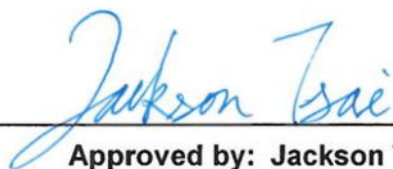


FCC Radio Test Report

FCC ID : QXO-AP4020
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP4020
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North
Carolina United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North
Carolina United States 27560
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 27, 2024, and testing was started from Oct. 10, 2024 and completed on Nov. 02, 2024. 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 C63.10-2013 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 Ver4.3
FCC ID: QXO-AP4020

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:

The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

Reviewed by: Barry Hsiao

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX
2.4-2.4835GHz	BT-LE(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (125kbps/500kbps/1Mbps/2Mbps) modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	Sercomm	6172005QWA01	PIFA	I-Pex	2.4G+5G	Radio 1_2.4G
						Radio 2_5G
2	Sercomm	6172005QWA02	PIFA	I-Pex	2.4G+5G	Radio 1_2.4G
						Radio 2_5G
3	Sercomm	6172005QWA04	PIFA	I-Pex	5G	Radio 3_5G
4	Sercomm	6172005QWA05	PIFA	I-Pex	5G	Radio 3_5G
5	Sercomm	6172005QWA06	PIFA	I-Pex	6G	Radio 3_6G
6	Sercomm	6172005QWA07	PIFA	I-Pex	6G	Radio 3_6G
7	Sercomm	6172005QWA03	PIFA	I-Pex	2.4G+5G+6G	Radio 1_Scan
8	Sercomm	6172005QWA08	PIFA	I-Pex	BT	BLE_chain 0
9	Sercomm	6172005QWA09	PIFA	I-Pex	BT	BLE_chain 1_H
10	Sercomm	6172005QWA10	PIFA	I-Pex	BT	BLE_chain 1_V
11	Sercomm	6172005QWA11	PIFA	I-Pex	GPS	N/A

Ant.	Port	Gain (dBi)											
		2.4G	5G				6G				BT chain 0	BT chain 1_H	BT chain 1_V
			UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8			
1	1	1.53	2.94	3.56	4.68	5.34	-	-	-	-	-	-	-
2	2	1.36	2.3	2.23	2.37	2.92	-	-	-	-	-	-	-
3	1	-	3.49	3.73	-	-	-	-	-	-	-	-	-
4	2	-	2.69	2.56	-	-	-	-	-	-	-	-	-
5	1	-	-	-	-	-	5.48	5.28	5.85	4.31	-	-	-
6	2	-	-	-	-	-	2.82	2.9	2.64	2.43	-	-	-
7	1	2.22	3.14	3.33	3.41	4.5	5.35	4.73	4.59	4.69	-	-	-
8	1	-	-	-	-	-	-	-	-	-	1.58	-	-
9	1	-	-	-	-	-	-	-	-	-	-	2.24	-
10	2	-	-	-	-	-	-	-	-	-	-	-	1.8

Composite Gain (dBi)										
Ant.		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
1~2	DG [1SS]	1.55	3.19	4.6	5.41	5.34	-	-	-	-
	DG [2SS]	1.53	2.94	3.56	4.68	5.34	-	-	-	-
3~4	DG [1SS]	-	5.77	5.82	-	-	-	-	-	-
	DG [2SS]	-	3.49	3.73	-	-	-	-	-	-
5~6	DG [1SS]	-	-	-	-	-	5.58	5.33	5.93	5.02
	DG [2SS]	-	-	-	-	-	5.48	5.28	5.85	4.31

Note 1: The EUT has eleven antennas.

Note 2: The composite gain is derived as KDB 662911 D03 v01 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP462705.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (1TX/2RX) (Radio 1)

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

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) (Radio 1)

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

For b20, g20 mode (1TX/1RX) (Radio 1_Scan)

Ant. 7 (port 1) could transmit/receive.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (1TX/2RX) (Radio 2)

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

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

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

For IEEE 802.11 a/n/ac/ax/be mode (1TX/2RX) (Radio 3)

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

For IEEE 802.11 a/n/ac/ax/be mode (2TX/2RX) (Radio 3)

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

For a20, a40, a80, a160 (1TX/1RX) (Radio 1_Scan)

Ant. 7 (port 1) could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX) (Chain 0)

Ant. 8 (port 1) could transmit/receive.

For IEEE 802.15.1 Bluetooth mode (1TX/2RX) (Chain 1)

Ant. 9 (port 1) or Ant. 10 (port 2) could transmit/receive

Support diversity function and pre-tested on each single chain, the worst case was Ant. 10 (port 2) and it was recorded in this test report.

For 6GHz function:

For IEEE 802.11 a/ax/be mode (1TX/2RX) (Radio3)

Ant. 5 (port 1) could transmit/receive.

For IEEE 802.11 a/ax/be mode (2TX/2RX) (Radio 3)

Ant. 5 (port 1) and Ant. 6 (port 2) could transmit/receive simultaneously.

For 11a20, 11a40, 11a80, 11a160 (1TX/1RX) (Radio 1_Scan)

Ant. 7 (port 1) could transmit/receive.

1.1.3 EUT Information

Identify EUT	
EUT Power Type	From AC Adapter / PoE
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
chain 0

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.849	0.71	2.123m	1k
BT-LE(2Mbps)	0.556	2.55	1.068m	1k
BT-LE(125kbps)	0.973	0.12	17.045m	100
BT-LE(500kbps)	0.909	0.41	4.546m	300

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

chain 1

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.849	0.71	2.123m	1k
BT-LE(2Mbps)	0.572	2.43	1.068m	1k
BT-LE(125kbps)	0.973	0.12	17.045m	100
BT-LE(500kbps)	0.909	0.41	4.547m	300

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 C63.10-2013

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	Rian Chung	20.1~21.1℃ / 53~58%	23/Oct/2024~24/Oct/2024
☒ 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	Peng Huang	23.5~23.7℃ / 53~58%	13/Oct/2024
Radiated	03CH26-HY	Andy Wang	20.2~21.1℃ / 51~58%	10/Oct/2024~02/Nov/2024
Radiated (Co-location)	03CH24-HY	Billy Wang	20.7~22.5℃ / 53~54%	01/Nov/2024

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	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Receiver Radiated Unwanted Emissions	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	PuTTY Release 0.62
-----------------------	--------------------

chain 0

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	0C 0C
2440MHz	0C 0C
2480MHz	0C 0C
BT-LE(2Mbps)	-
2402MHz	0C 0C
2440MHz	0C 0C
2480MHz	0C 0C
BT-LE(125kbps)	-
2402MHz	0C 0C
2440MHz	0C 0C
2480MHz	0C 0C
BT-LE(500kbps)	-
2402MHz	0C 0C
2440MHz	0C 0C
2480MHz	0C 0C

chain 1

Mode	Power Setting
BT-LE(1Mbps)_1TX(Port2)	-
2402MHz	0C 0C
2440MHz	0C 0C
2480MHz	0C 0C
BT-LE(2Mbps)_1TX(Port2)	-
2402MHz	0C 0C
2440MHz	0C 0C
2480MHz	0C 0C
BT-LE(125kbps)_1TX(Port2)	-
2402MHz	0C 0C
2440MHz	0C 0C
2480MHz	0C 0C
BT-LE(500kbps)_1TX(Port2)	-
2402MHz	0C 0C
2440MHz	0C 0C
2480MHz	0C 0C

2.2 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	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		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	Radio 1:2.4G+Radio 2:5G Full+Radio 3:6G Full+Radio 1:Scan 2.4G+ Radio 1:Scan 5G + Radio 1:Scan 6G+Bluetooth(chain 0)
2	Radio 1:2.4G+Radio 2:5G High(Band3/4)+Radio 3:5G Low(Band1/2)+Radio 1:Scan 2.4G+Radio 1:Scan 5G+Radio 1:Scan 6G+Bluetooth(chain 0)
3	Radio 1:2.4G+Radio 2:5G Full+Radio 3:6G Full+Radio 1:Scan 2.4G+Radio 1:Scan 5G+Radio 1:Scan 6G+Bluetooth(chain 1)
4	Radio 1:2.4G+Radio 2:5G High(Band3/4)+Radio 3:5G Low(Band1/2)+Radio 1:Scan 2.4G+Radio 1:Scan 5G+Radio 1:Scan 6G+Bluetooth(chain1)
Refer to Sporton Test Report No.: FA462705 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Support Equipment

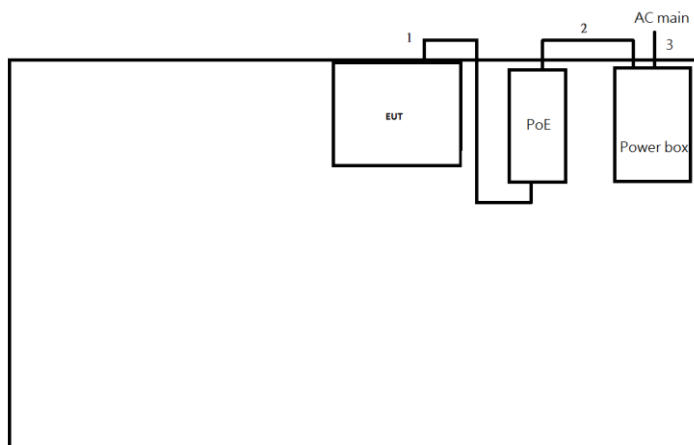
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ-45 Cable	Power sync	CLN7VAF0015A	-	-
2	PoE	PHIHONG	POE60U-1BT-X	-	Provided by Customer
2	AC Power Cable	Power sync	SCB-3PM01	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Adapter	Powertron	PA1045-120HIB300	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ-45 Cable	Power sync	CLN7VAF0015A	-	-
2	PoE	PHIHONG	POE60U-1BT-X	-	Provided by Customer/ Remote

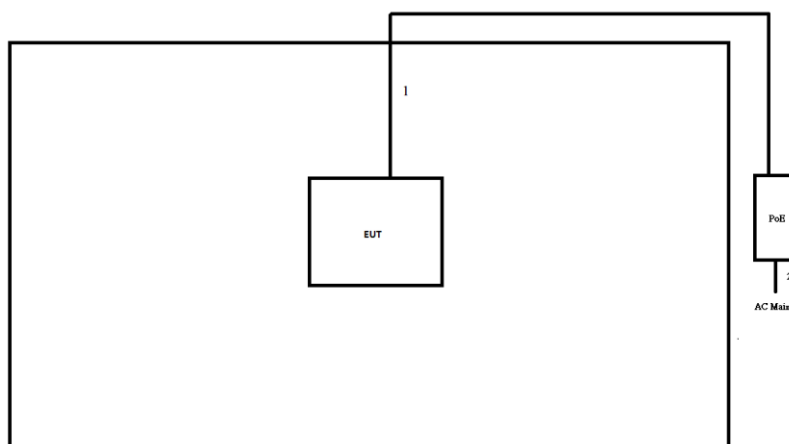
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (PoE Mode)



Item	Connection	Shielded	Length(m)	Remark
1	RJ-45 Cable	No	3.0	-
2	AC Power Cable	No	1.8	-
3	AC Power Cable	No	1.0	-

Test Setup Diagram - Radiated Test (PoE Mode)



Item	Connection	Shielded	Length(m)	Remark
1	RJ-45 Cable	No	3.0	-
2	AC Power Cable	No	1.8	-

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

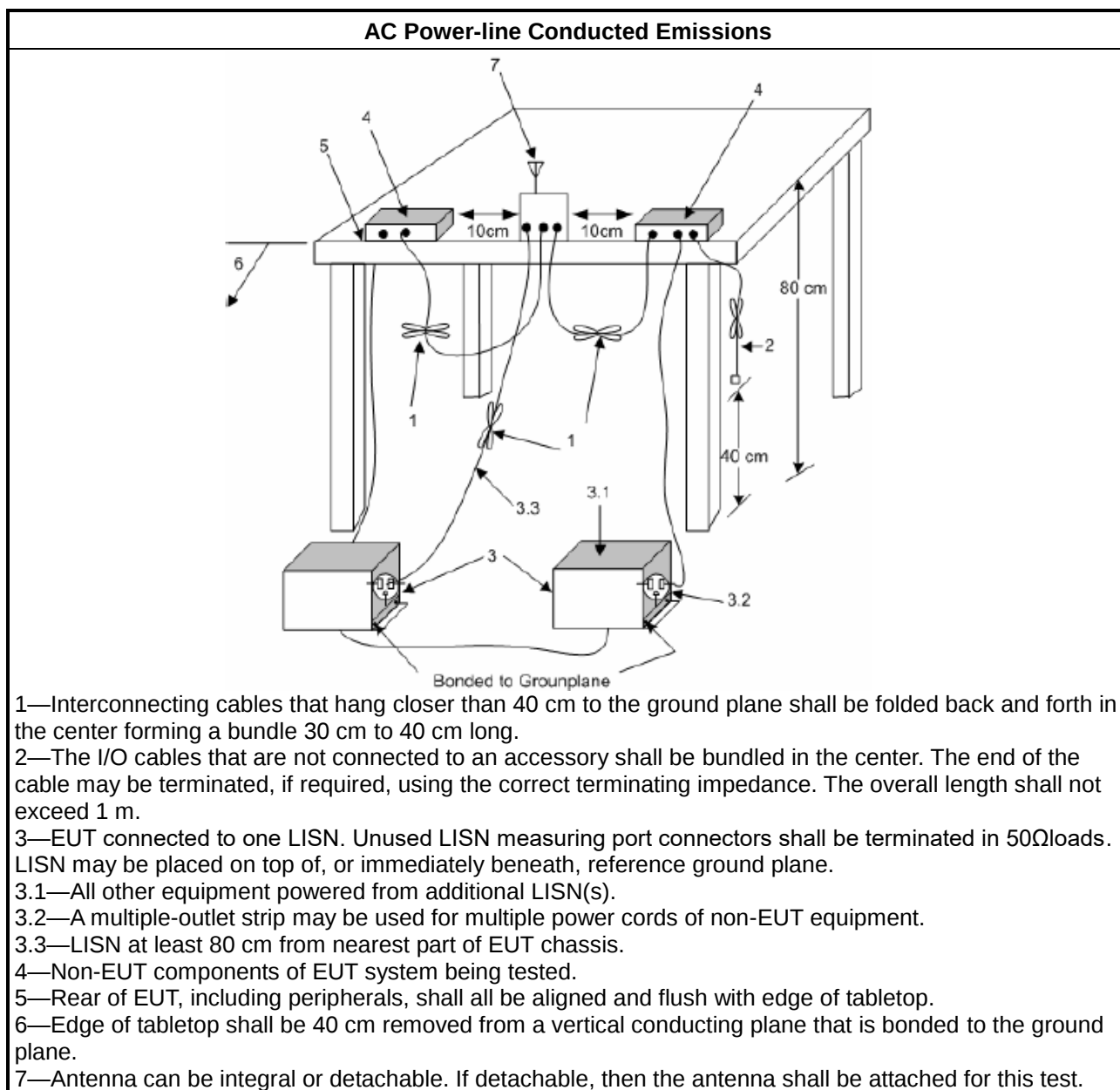
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

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.

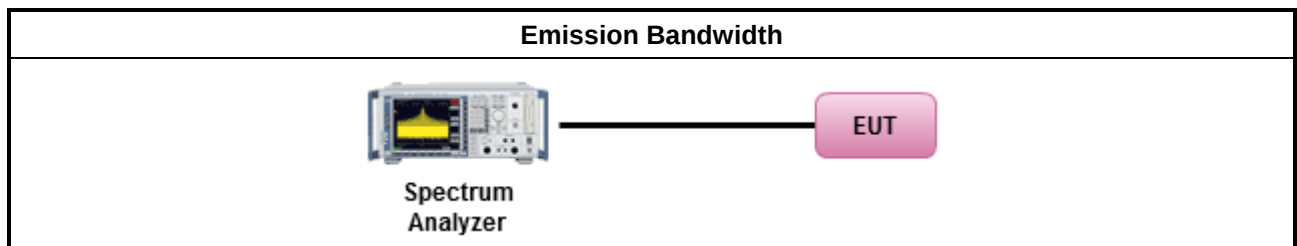
3.2.2 Measuring Instruments

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.	

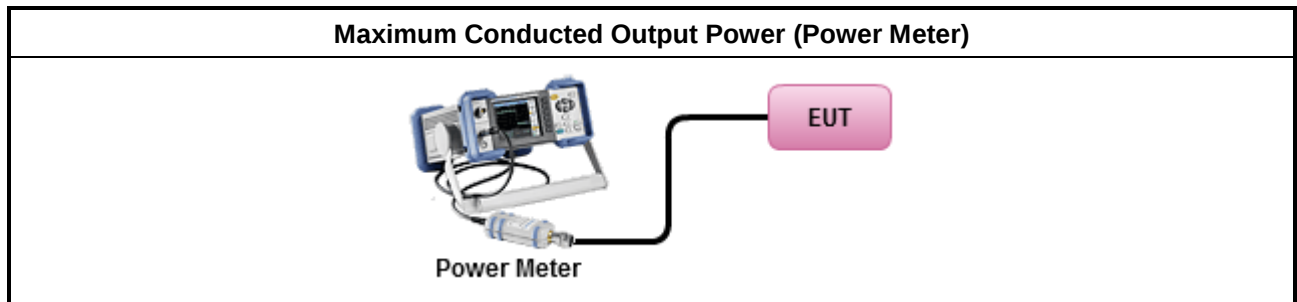
3.3.2 Measuring Instruments

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 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 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

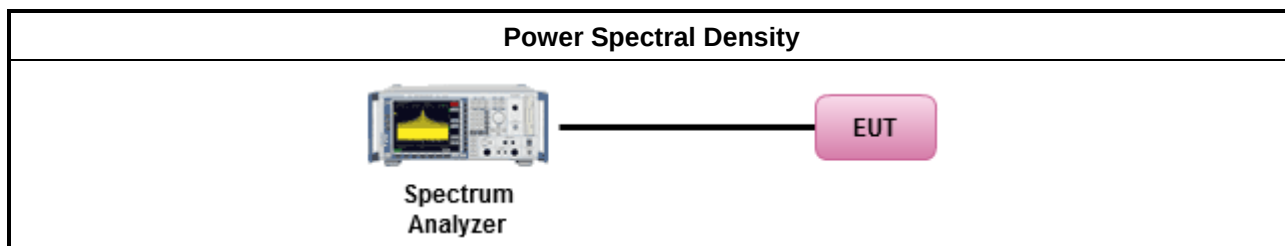
3.4.2 Measuring Instruments

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.	

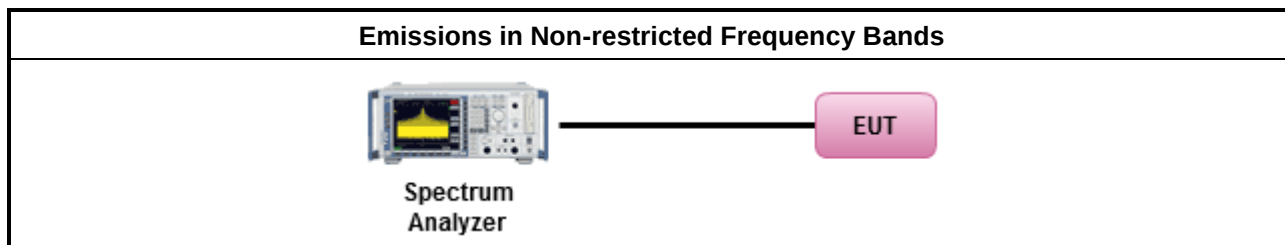
3.5.2 Measuring Instruments

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

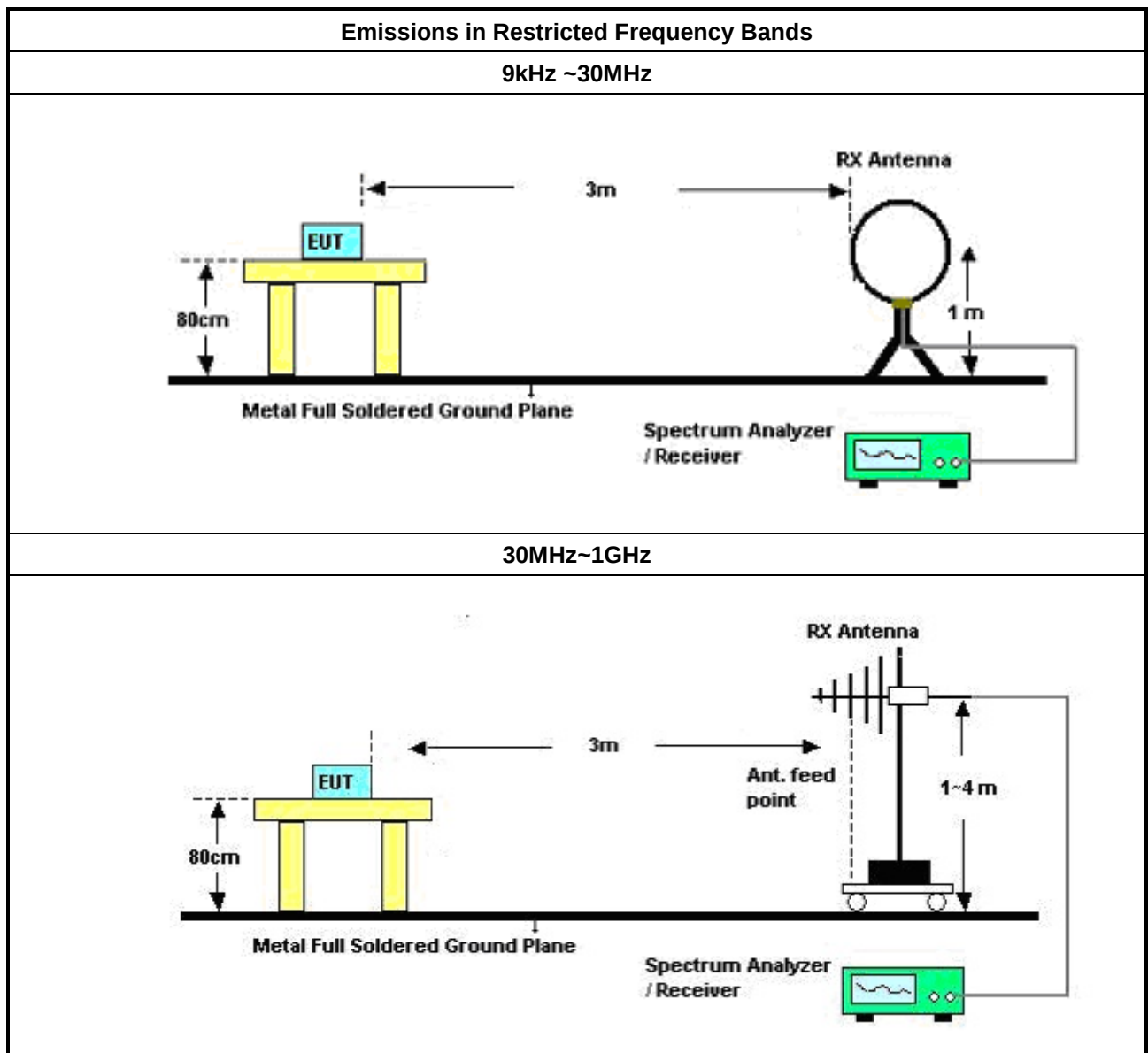
Test Method	
	- The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor]. - Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	- For the transmitter unwanted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

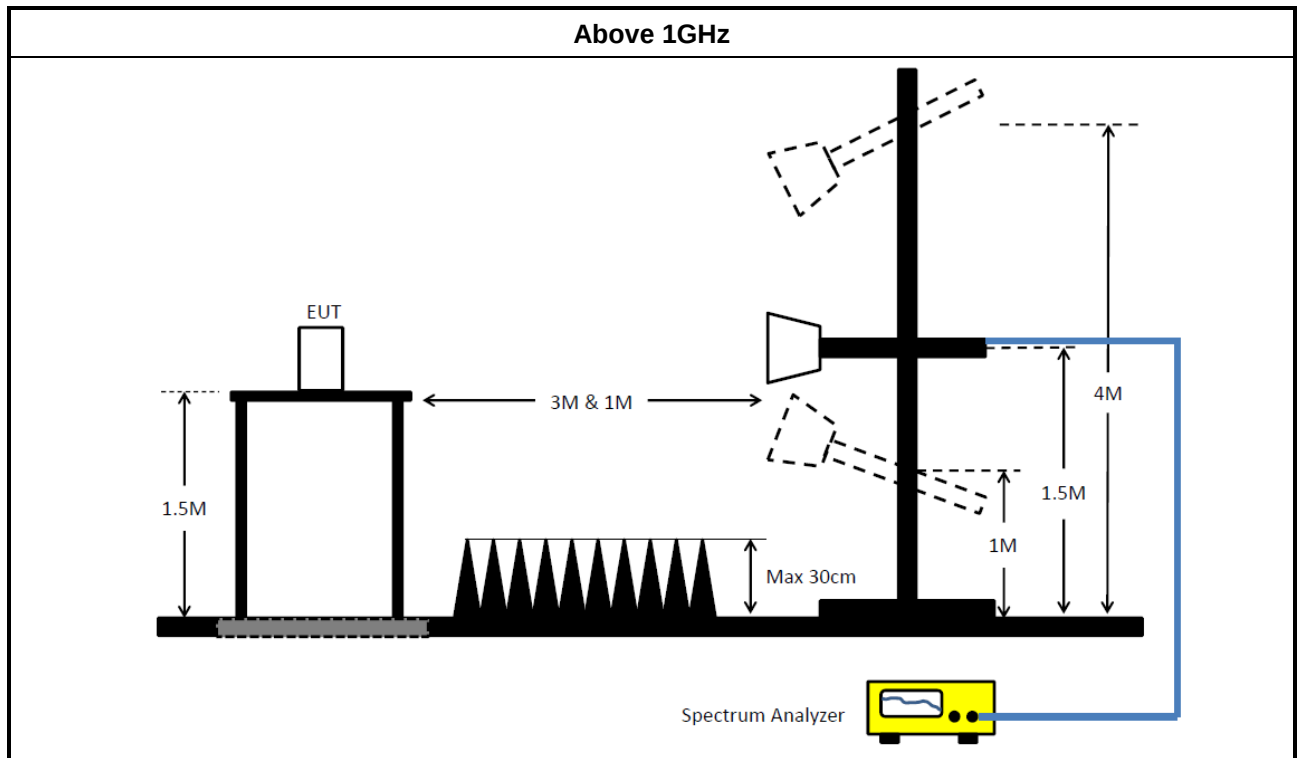
3.6.4 Measurement Results Calculation

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	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101274	9kHz ~ 30MHz	18/Jun/2024	17/Jun/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.3	-	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/2023	29/Oct/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	20/Oct/2023	19/Oct/2024
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	01/Apr/2024	31/Mar/2025
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	02/Apr/2024	01/Apr/2025
SENSE-15247_FS	Sporton	V5.11.18	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH24-HY) (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	30/Jul/2024	29/Jul/2025
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101345	10Hz~44GHz	27/Aug/2024	26/Aug/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	15/Aug/2024	14/Aug/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	12/Aug/2024	11/Aug/2025
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	03CH24-CABLE-01	1GH-40GHz	01/Oct/2024	30/Sep/2025

Instrument for Radiated Test (03CH26-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	30MHz~1GHz 3m	07/Aug/2024	06/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	07/Aug/2024	06/Aug/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	27/Dec/2023	26/Dec/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	09/Oct/2024	08/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63540/002	30MHz~1GHz	05/Jun/2024	04/Jun/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	11/Jul/2024	10/Jul/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	30MHz~1GHz	18/Oct/2023	17/Oct/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	30MHz~1GHz	21/Oct/2024	20/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	18/Oct/2023	17/Oct/2024
Preamplifier	SGH	PRAMP 903	20230515-2	30MHz~1GHz	24/May/2024	23/May/2025
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	24/May/2024	23/May/2025
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-15247-FS	Sporton	V5.11.18	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

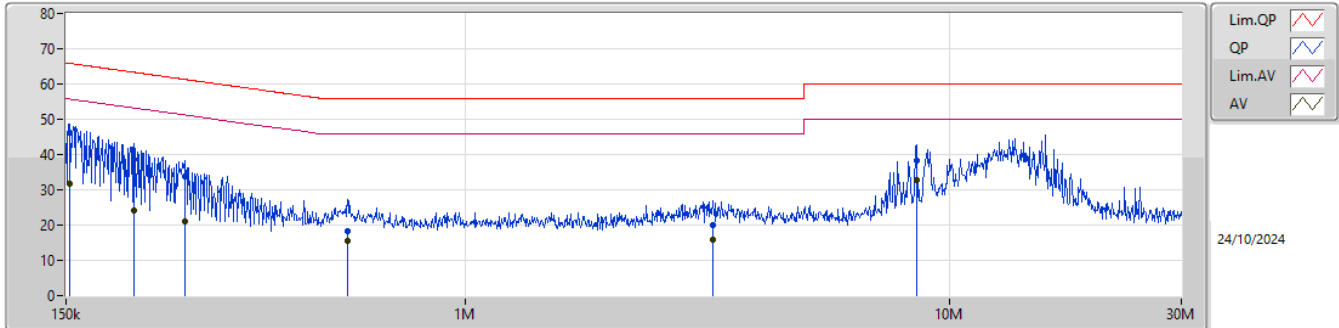
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	8.523M	32.60	50.00	-17.40	Line

Result

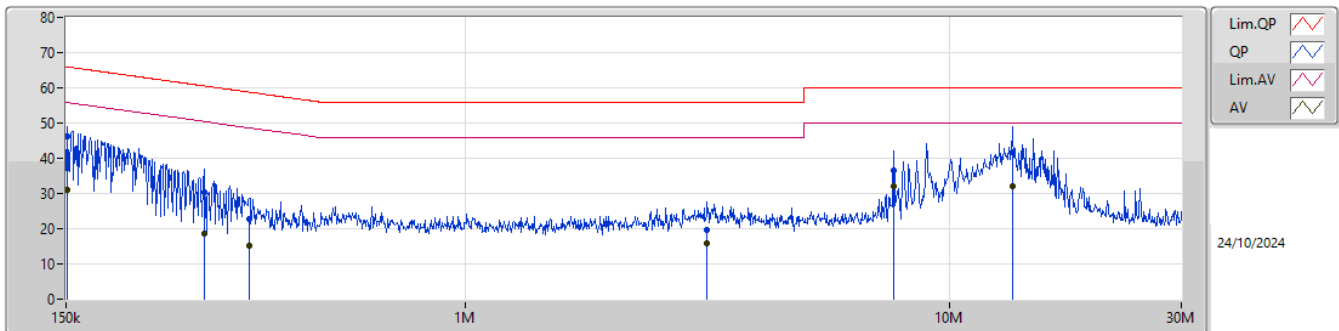
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.024k	46.32	65.83	-19.51	Line
Mode 1	Pass	AV	153.024k	31.72	55.83	-24.11	Line
Mode 1	Pass	QP	207.263k	38.62	63.30	-24.68	Line
Mode 1	Pass	AV	207.263k	24.02	53.30	-29.28	Line
Mode 1	Pass	QP	263.357k	33.75	61.32	-27.57	Line
Mode 1	Pass	AV	263.357k	21.09	51.32	-30.23	Line
Mode 1	Pass	QP	571.327k	18.15	56.00	-37.85	Line
Mode 1	Pass	AV	571.327k	15.55	46.00	-30.45	Line
Mode 1	Pass	QP	3.244M	20.00	56.00	-36.00	Line
Mode 1	Pass	AV	3.244M	15.72	46.00	-30.28	Line
Mode 1	Pass	QP	8.523M	38.28	60.00	-21.72	Line
Mode 1	Pass	AV	8.523M	32.60	50.00	-17.40	Line
Mode 1	Pass	QP	151.202k	46.37	65.92	-19.55	Neutral
Mode 1	Pass	AV	151.202k	30.90	55.92	-25.02	Neutral
Mode 1	Pass	QP	288.682k	30.32	60.57	-30.25	Neutral
Mode 1	Pass	AV	288.682k	18.55	50.57	-32.02	Neutral
Mode 1	Pass	QP	358.13k	22.78	58.77	-35.99	Neutral
Mode 1	Pass	AV	358.13k	15.15	48.77	-33.62	Neutral
Mode 1	Pass	QP	3.154M	19.70	56.00	-36.30	Neutral
Mode 1	Pass	AV	3.154M	15.99	46.00	-30.01	Neutral
Mode 1	Pass	QP	7.652M	36.66	60.00	-23.34	Neutral
Mode 1	Pass	AV	7.652M	32.17	50.00	-17.83	Neutral
Mode 1	Pass	QP	13.435M	41.61	60.00	-18.39	Neutral
Mode 1	Pass	AV	13.435M	31.93	50.00	-18.07	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	153.024k	46.32	65.83	-19.51	19.70	Line	-	26.62	9.66	0.07	9.97						
AV	153.024k	31.72	55.83	-24.11	19.70	Line	-	12.02	9.66	0.07	9.97						
QP	207.263k	38.62	63.30	-24.68	19.71	Line	-	18.91	9.65	0.09	9.97						
AV	207.263k	24.02	53.30	-29.28	19.71	Line	-	4.31	9.65	0.09	9.97						
QP	263.357k	33.75	61.32	-27.57	19.72	Line	-	14.03	9.65	0.10	9.97						
AV	263.357k	21.09	51.32	-30.23	19.72	Line	-	1.37	9.65	0.10	9.97						
QP	571.327k	18.15	56.00	-37.85	19.74	Line	-	-1.59	9.65	0.11	9.98						
AV	571.327k	15.55	46.00	-30.45	19.74	Line	-	-4.19	9.65	0.11	9.98						
QP	3.244M	20.00	56.00	-36.00	19.74	Line	-	0.26	9.68	0.08	9.98						
AV	3.244M	15.72	46.00	-30.28	19.74	Line	-	-4.02	9.68	0.08	9.98						
QP	8.523M	38.28	60.00	-21.72	19.74	Line	-	18.54	9.71	0.05	9.98						
AV	8.523M	32.60	50.00	-17.40	19.74	Line	-	12.86	9.71	0.05	9.98						

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	151.202k	46.37	65.92	-19.55	19.64	Neutral	-	26.73	9.60	0.07	9.97						
AV	151.202k	30.90	55.92	-25.02	19.64	Neutral	-	11.26	9.60	0.07	9.97						
QP	288.682k	30.32	60.57	-30.25	19.69	Neutral	-	10.63	9.60	0.11	9.98						
AV	288.682k	18.55	50.57	-32.02	19.69	Neutral	-	-1.14	9.60	0.11	9.98						
QP	358.13k	22.78	58.77	-35.99	19.70	Neutral	-	3.08	9.60	0.12	9.98						
AV	358.13k	15.15	48.77	-33.62	19.70	Neutral	-	-4.55	9.60	0.12	9.98						
QP	3.154M	19.70	56.00	-36.30	19.68	Neutral	-	0.02	9.62	0.08	9.98						
AV	3.154M	15.99	46.00	-30.01	19.68	Neutral	-	-3.69	9.62	0.08	9.98						
QP	7.652M	36.66	60.00	-23.34	19.69	Neutral	-	16.97	9.65	0.06	9.98						
AV	7.652M	32.17	50.00	-17.83	19.69	Neutral	-	12.48	9.65	0.06	9.98						
QP	13.435M	41.61	60.00	-18.39	19.72	Neutral	-	21.89	9.66	0.08	9.98						
AV	13.435M	31.93	50.00	-18.07	19.72	Neutral	-	12.21	9.66	0.08	9.98						

**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)	703.75k	1.068M	1M07F1D	678.75k	1.029M
BT-LE(125kbps)	677.5k	1.054M	1M05F1D	670k	1.052M
BT-LE(500kbps)	715k	1.044M	1M04F1D	697.5k	1.042M
BT-LE(2Mbps)	1.135M	2.086M	2M09F1D	1.08M	2.074M

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

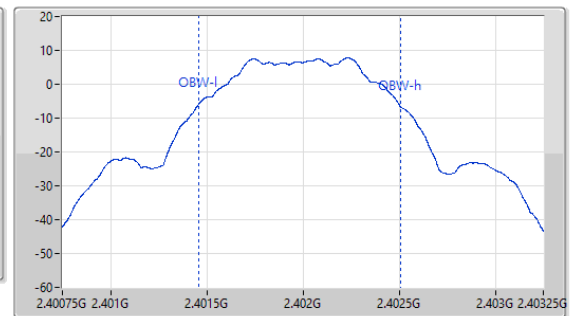
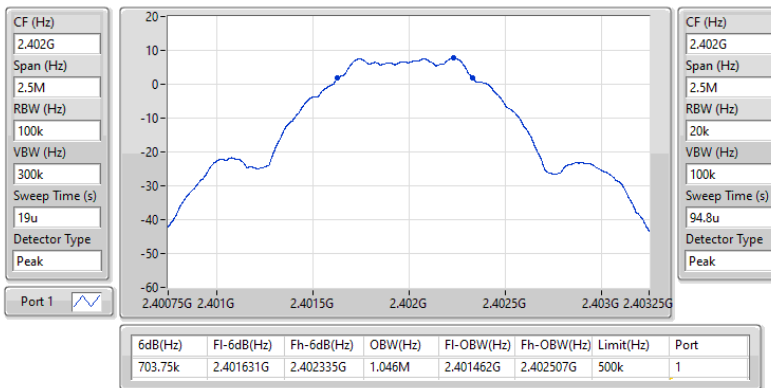
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	703.75k	1.046M
2440MHz	Pass	500k	681.25k	1.029M
2480MHz	Pass	500k	678.75k	1.068M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.083M	2.084M
2440MHz	Pass	500k	1.08M	2.086M
2480MHz	Pass	500k	1.135M	2.074M
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	670k	1.054M
2440MHz	Pass	500k	675k	1.052M
2480MHz	Pass	500k	677.5k	1.052M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	697.5k	1.044M
2440MHz	Pass	500k	715k	1.044M
2480MHz	Pass	500k	707.5k	1.042M

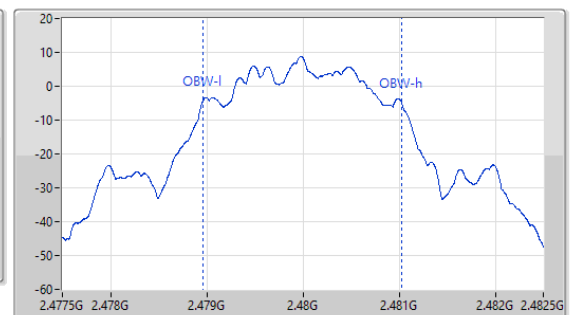
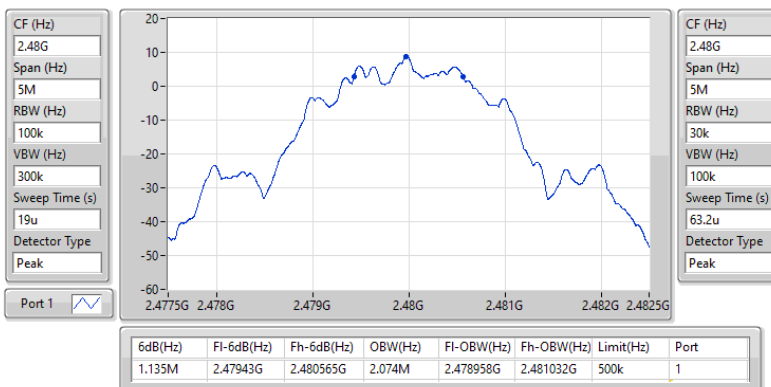
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

13/10/2024


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

13/10/2024

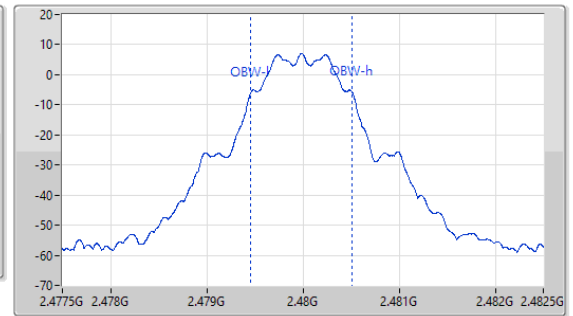
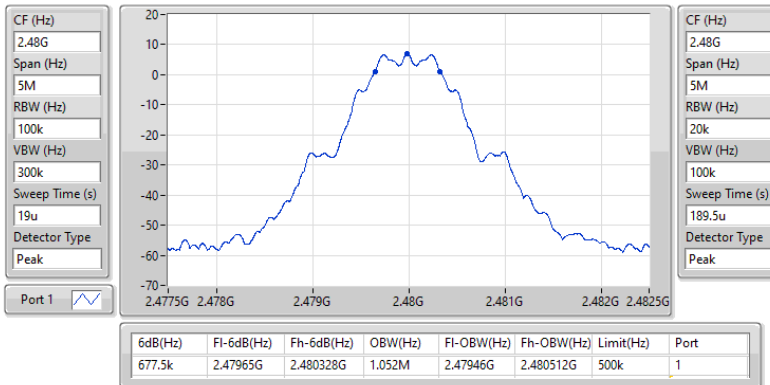


2.4-2.4835GHz_BT-LE(125kbps)

EBW-DTS

2480MHz

13/10/2024

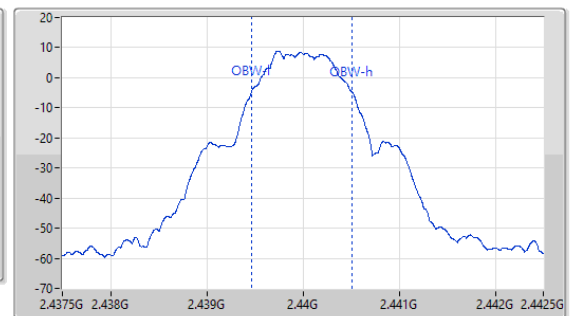
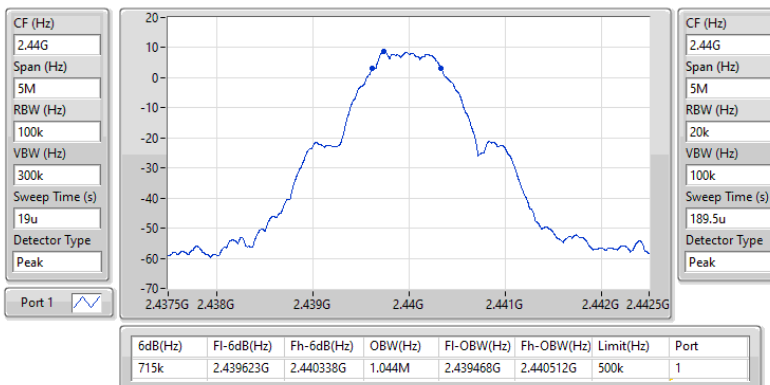


2.4-2.4835GHz_BT-LE(500kbps)

EBW-DTS

2440MHz

13/10/2024



**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)_1TX(Port2)	743.75k	1.059M	1M06F1D	718.75k	1.031M
BT-LE(125kbps)_1TX(Port2)	677.5k	1.059M	1M06F1D	670k	1.052M
BT-LE(500kbps)_1TX(Port2)	757.5k	1.064M	1M06F1D	665k	1.047M
BT-LE(2Mbps)_1TX(Port2)	1.31M	2.091M	2M09F1D	1.155M	2.054M

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

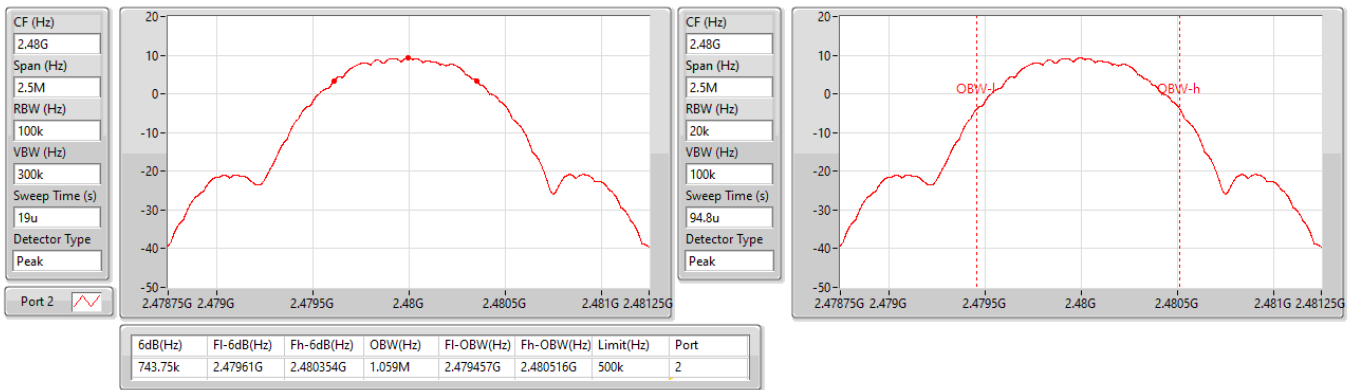
Result

Mode	Result	Limit (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
BT-LE(1Mbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	500k	723.75k	1.057M
2440MHz	Pass	500k	718.75k	1.031M
2480MHz	Pass	500k	743.75k	1.059M
BT-LE(2Mbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	500k	1.31M	2.086M
2440MHz	Pass	500k	1.278M	2.091M
2480MHz	Pass	500k	1.155M	2.054M
BT-LE(125kbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	500k	675k	1.059M
2440MHz	Pass	500k	677.5k	1.052M
2480MHz	Pass	500k	670k	1.052M
BT-LE(500kbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	500k	665k	1.064M
2440MHz	Pass	500k	757.5k	1.047M
2480MHz	Pass	500k	715k	1.064M

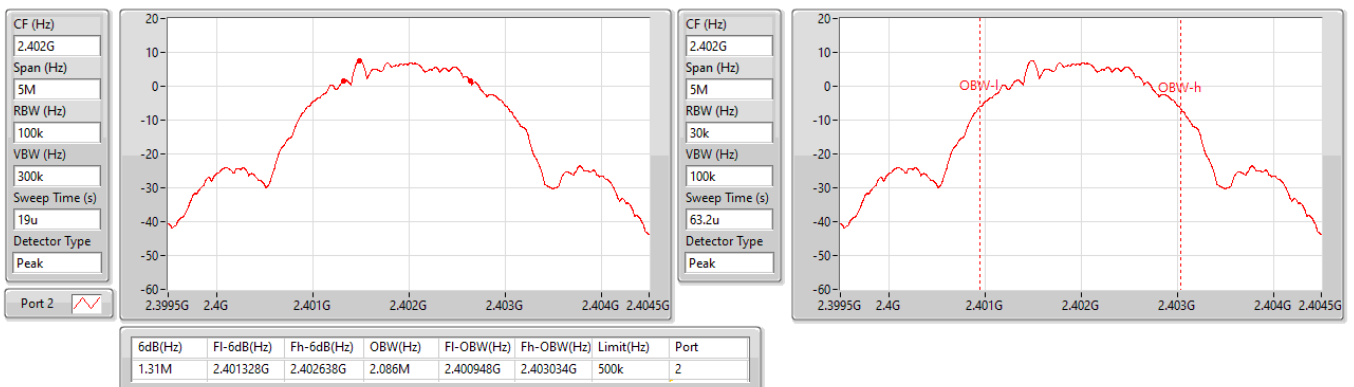
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)_1TX(Port2)
EBW-DTS
2480MHz

13/10/2024


2.4-2.4835GHz_BT-LE(2Mbps)_1TX(Port2)
EBW-DTS
2402MHz

13/10/2024

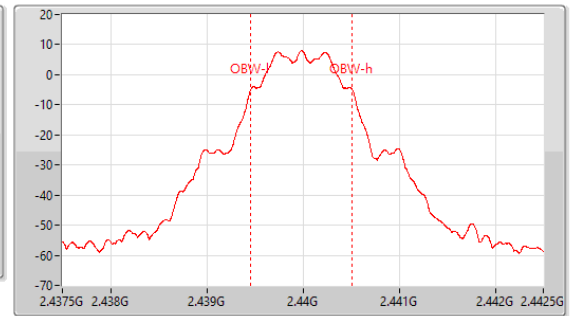
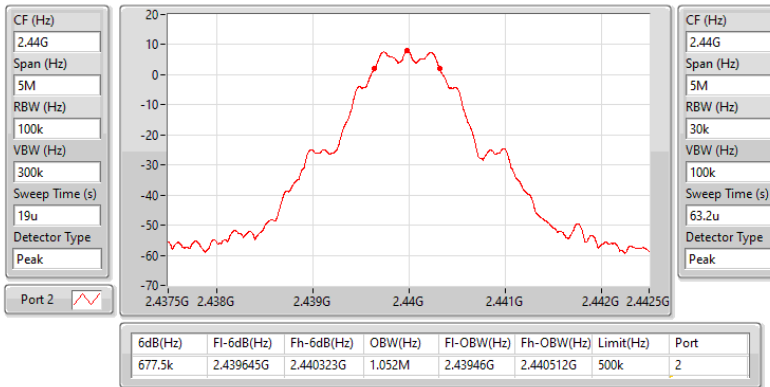


2.4-2.4835GHz_BT-LE(125kbps)_1TX(Port2)

EBW-DTS

2440MHz

13/10/2024

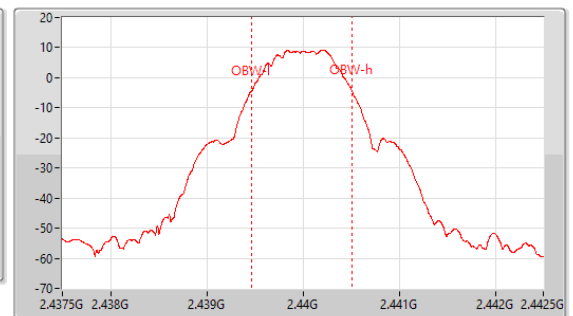
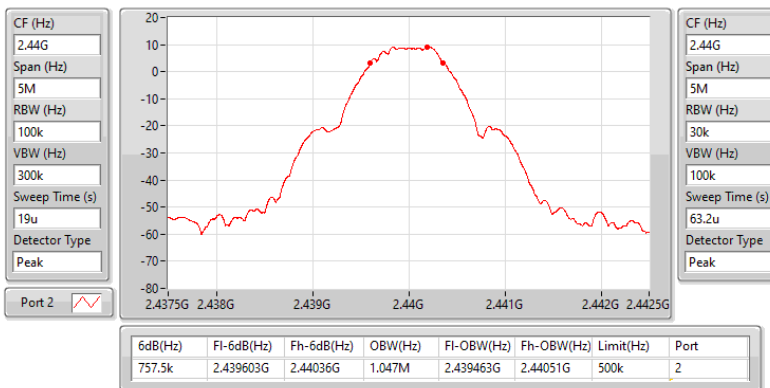


2.4-2.4835GHz_BT-LE(500kbps)_1TX(Port2)

EBW-DTS

2440MHz

13/10/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	11.69	0.01476
BT-LE(125kbps)	11.87	0.01538
BT-LE(500kbps)	11.92	0.01556
BT-LE(2Mbps)	11.77	0.01503

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.58	11.69	30.00
2440MHz	Pass	1.58	11.64	30.00
2480MHz	Pass	1.58	11.56	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.58	11.77	30.00
2440MHz	Pass	1.58	11.69	30.00
2480MHz	Pass	1.58	11.58	30.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.58	11.76	30.00
2440MHz	Pass	1.58	11.81	30.00
2480MHz	Pass	1.58	11.87	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.58	11.77	30.00
2440MHz	Pass	1.58	11.84	30.00
2480MHz	Pass	1.58	11.92	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)_1TX(Port2)	11.56	0.01432
BT-LE(125kbps)_1TX(Port2)	11.60	0.01445
BT-LE(500kbps)_1TX(Port2)	11.59	0.01442
BT-LE(2Mbps)_1TX(Port2)	11.69	0.01476

Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	1.80	11.51	30.00
2440MHz	Pass	1.80	11.56	30.00
2480MHz	Pass	1.80	11.19	30.00
BT-LE(2Mbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	1.80	11.59	30.00
2440MHz	Pass	1.80	11.69	30.00
2480MHz	Pass	1.80	11.40	30.00
BT-LE(125kbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	1.80	11.55	30.00
2440MHz	Pass	1.80	11.60	30.00
2480MHz	Pass	1.80	11.34	30.00
BT-LE(500kbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	1.80	11.58	30.00
2440MHz	Pass	1.80	11.59	30.00
2480MHz	Pass	1.80	11.27	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-7.61
BT-LE(125kbps)	4.25
BT-LE(500kbps)	3.90
BT-LE(2Mbps)	-9.70

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.58	-7.76	8.00
2440MHz	Pass	1.58	-7.61	8.00
2480MHz	Pass	1.58	-7.72	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.58	-9.85	8.00
2440MHz	Pass	1.58	-9.70	8.00
2480MHz	Pass	1.58	-9.81	8.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.58	3.40	8.00
2440MHz	Pass	1.58	4.11	8.00
2480MHz	Pass	1.58	4.25	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.58	3.90	8.00
2440MHz	Pass	1.58	3.52	8.00
2480MHz	Pass	1.58	3.67	8.00

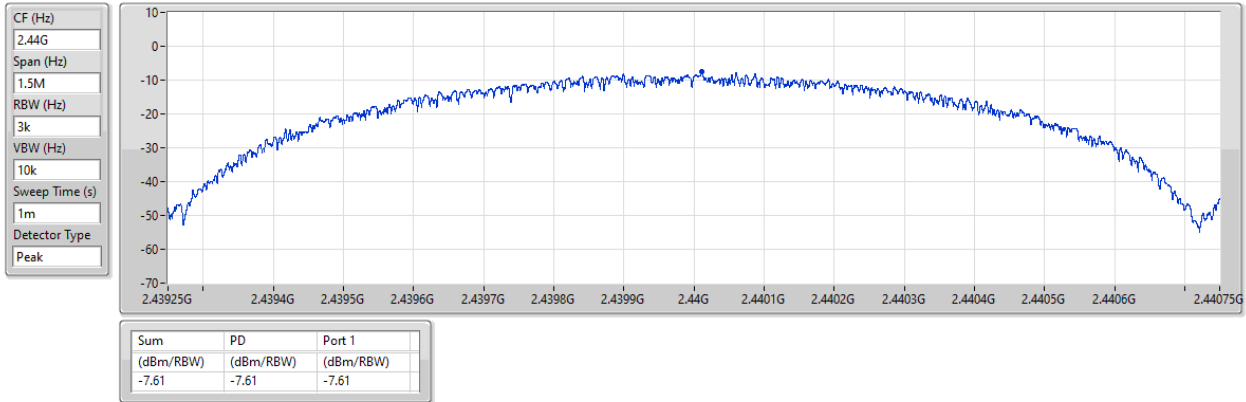
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

13/10/2024

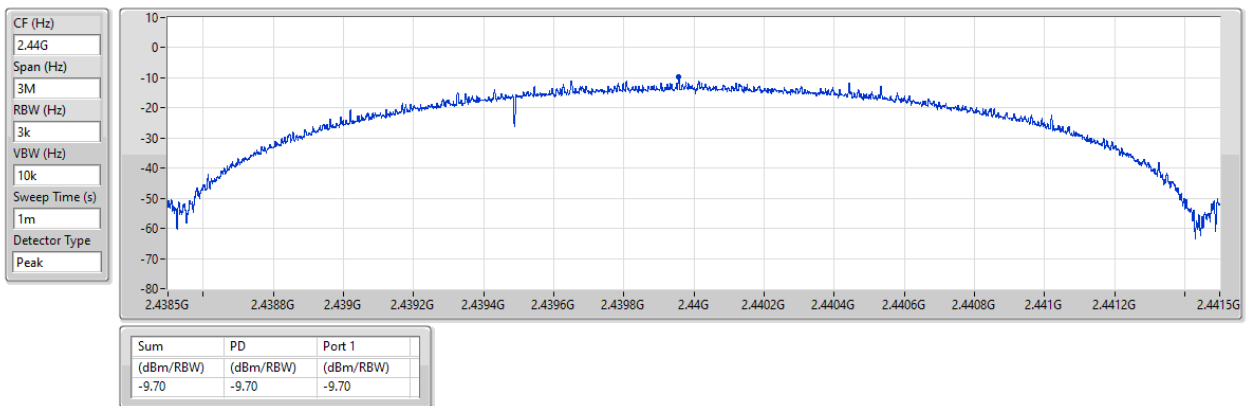


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

13/10/2024

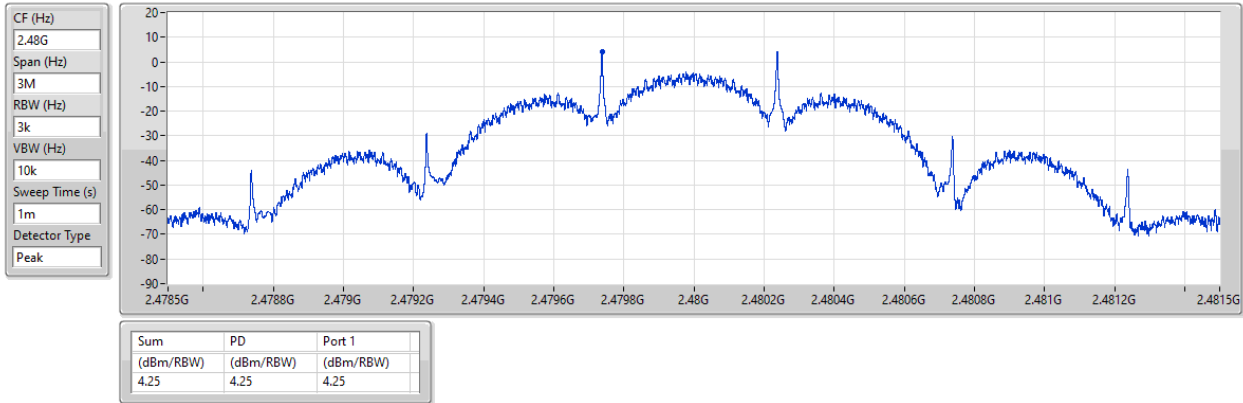


2.4-2.4835GHz_BT-LE(125kbps)

PSD

2480MHz

13/10/2024

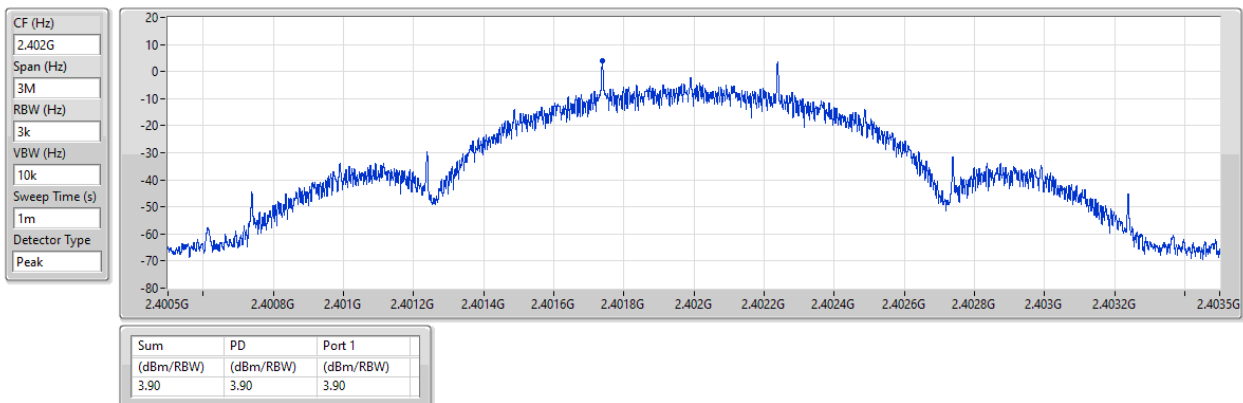


2.4-2.4835GHz_BT-LE(500kbps)

PSD

2402MHz

13/10/2024





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)_1TX(Port2)	-5.36
BT-LE(125kbps)_1TX(Port2)	5.18
BT-LE(500kbps)_1TX(Port2)	4.95
BT-LE(2Mbps)_1TX(Port2)	-7.90

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	1.80	-5.66	8.00
2440MHz	Pass	1.80	-5.36	8.00
2480MHz	Pass	1.80	-5.72	8.00
BT-LE(2Mbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	1.80	-8.48	8.00
2440MHz	Pass	1.80	-7.90	8.00
2480MHz	Pass	1.80	-8.28	8.00
BT-LE(125kbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	1.80	5.02	8.00
2440MHz	Pass	1.80	5.18	8.00
2480MHz	Pass	1.80	4.86	8.00
BT-LE(500kbps)_1TX(Port2)	-	-	-	-
2402MHz	Pass	1.80	2.95	8.00
2440MHz	Pass	1.80	4.95	8.00
2480MHz	Pass	1.80	4.62	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)_1TX(Port2)

PSD

2440MHz

13/10/2024

CF (Hz)
2.44G

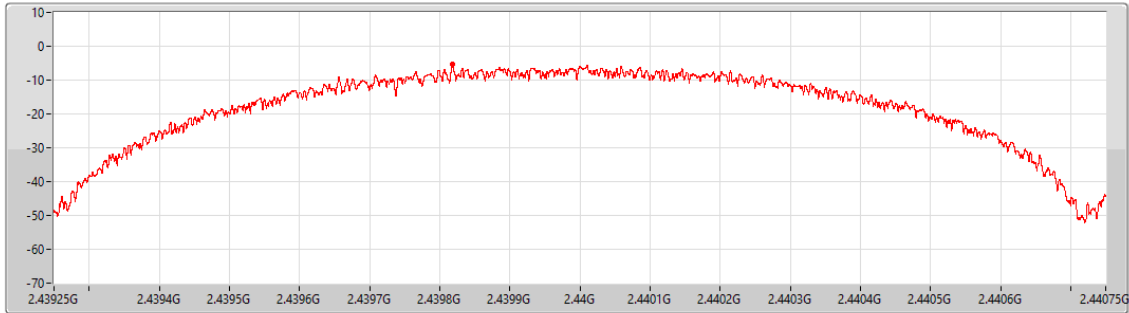
Span (Hz)
1.5M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
1m

Detector Type
Peak



Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.36	-5.36	-	-5.36

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

PSD

2440MHz

13/10/2024

CF (Hz)
2.44G

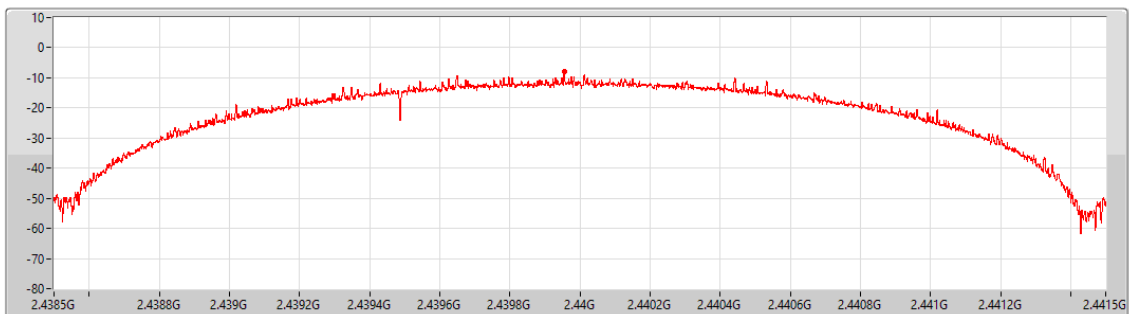
Span (Hz)
3M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
1m

Detector Type
Peak



Port 2

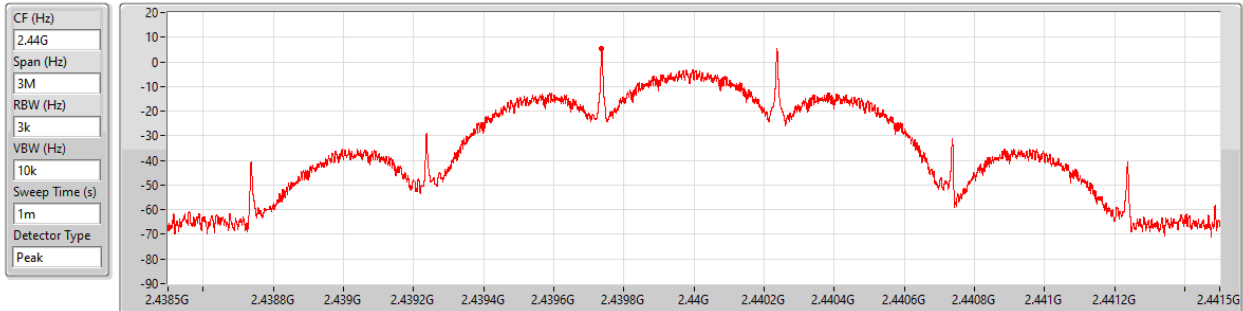
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.90	-7.90	-	-7.90

2.4-2.4835GHz_BT-LE(125kbps)_1TX(Port2)

PSD

2440MHz

13/10/2024



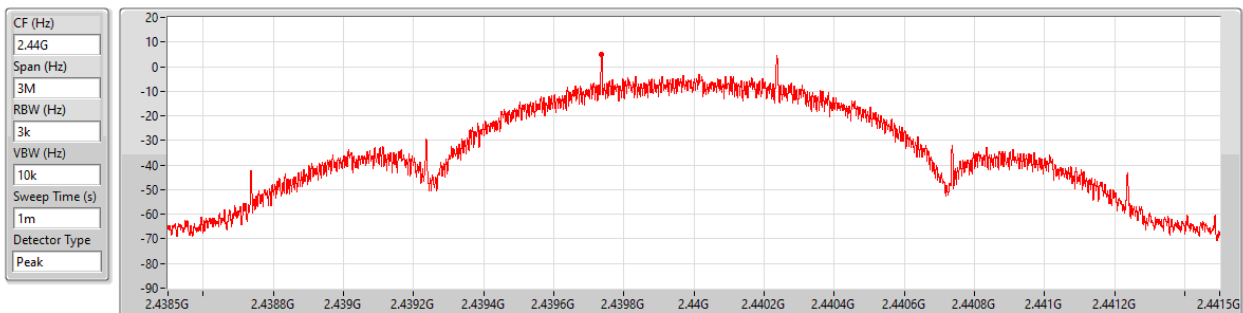
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.18	5.18	-	5.18

2.4-2.4835GHz_BT-LE(500kbps)_1TX(Port2)

PSD

2440MHz

13/10/2024



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.95	4.95	-	4.95



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40217G	8.31	-21.69	827.83M	-55.25	2.39996G	-49.41	2.4G	-45.72	2.50134G	-54.26	16.62005G	-41.16	1
BT-LE(125kbps)	Pass	2.47999G	7.01	-22.99	879.53M	-55.17	2.39976G	-52.75	2.4G	-46.74	2.50014G	-53.55	24.66536G	-42.21	1
BT-LE(500kbps)	Pass	2.47999G	9.63	-20.37	2.30363G	-55.67	2.39996G	-47.23	2.4G	-45.84	2.5015G	-53.94	16.27698G	-41.41	1
BT-LE(2Mbps)	Pass	2.40234G	7.95	-22.05	524.68M	-55.69	2.39996G	-24.42	2.4G	-24.29	2.50126G	-53.77	16.20387G	-42.16	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	8.31	-21.69	827.83M	-55.25	2.39996G	-49.41	2.4G	-45.72	2.50134G	-54.26	16.62005G	-41.16	1
2440MHz	Pass	2.40217G	8.31	-21.69	2.098G	-55.41	2.39064G	-54.44	2.4G	-55.68	2.50302G	-53.98	16.92094G	-41.81	1
2480MHz	Pass	2.40217G	8.31	-21.69	2.30245G	-55.29	2.39204G	-53.80	2.4G	-56.47	2.50014G	-53.13	16.85627G	-41.34	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40234G	7.95	-22.05	524.68M	-55.69	2.39996G	-24.42	2.4G	-24.29	2.50126G	-53.77	16.20387G	-42.16	1
2440MHz	Pass	2.40234G	7.95	-22.05	2.30245G	-54.52	2.39412G	-53.78	2.4G	-55.70	2.50162G	-54.41	15.16059G	-41.82	1
2480MHz	Pass	2.40234G	7.95	-22.05	1.87358G	-55.48	2.39988G	-54.07	2.4G	-56.69	2.5027G	-53.82	17.64646G	-41.61	1
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.47999G	7.01	-22.99	879.53M	-55.17	2.39976G	-52.75	2.4G	-46.74	2.50014G	-53.55	24.66536G	-42.21	1
2440MHz	Pass	2.40184G	6.22	-23.78	858.38M	-55.43	2.39492G	-54.27	2.4G	-55.71	2.50166G	-51.85	16.26292G	-41.49	1
2480MHz	Pass	2.47999G	7.01	-22.99	2.15205G	-55.14	2.39752G	-53.39	2.4G	-56.35	2.50298G	-53.53	24.94938G	-41.81	1
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.47999G	9.63	-20.37	2.30363G	-55.67	2.39996G	-47.23	2.4G	-45.84	2.5015G	-53.94	16.27698G	-41.41	1
2440MHz	Pass	2.47999G	9.63	-20.37	47.63M	-47.10	2.3918G	-53.70	2.4G	-56.10	2.50346G	-53.74	15.23089G	-40.50	1
2480MHz	Pass	2.47999G	9.63	-20.37	74.65M	-55.67	2.39104G	-54.51	2.4G	-56.08	2.50098G	-53.64	16.62849G	-41.93	1

2.4-2.4835GHz_BT-LE(1Mbps)

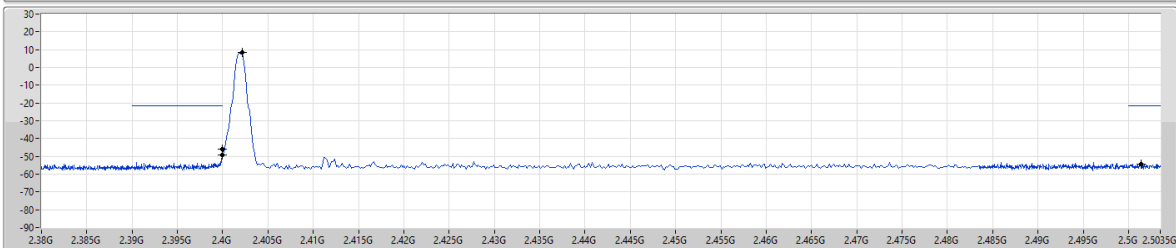
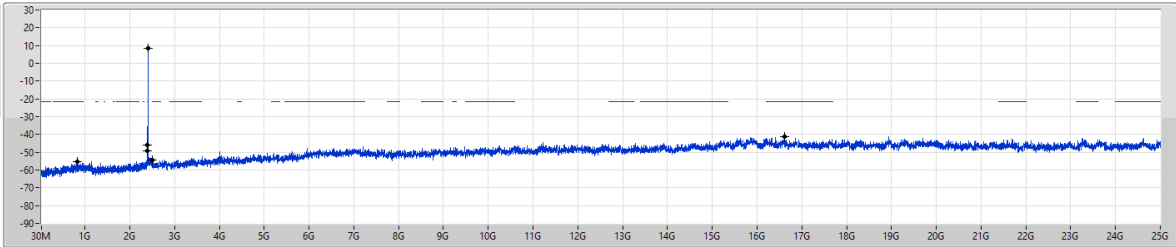
CSENdB-DTS

2402MHz

13/10/2024

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

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40217G	8.31	-21.69	827.83M	-55.25	2.39996G	-49.41	2.4G	-45.72	2.50134G	-54.26	16.62005G	-41.16	1

2.4-2.4835GHz_BT-LE(2Mbps)

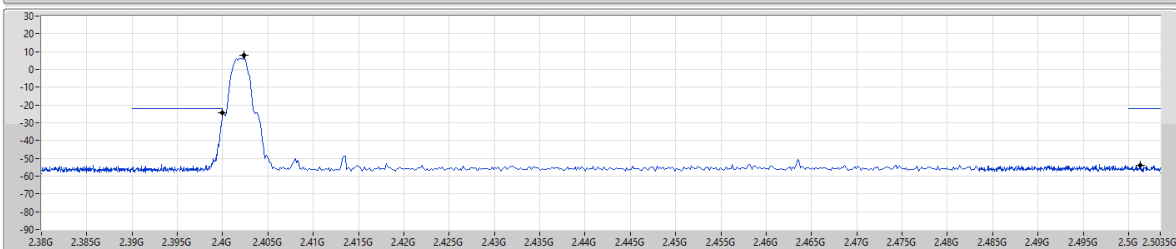
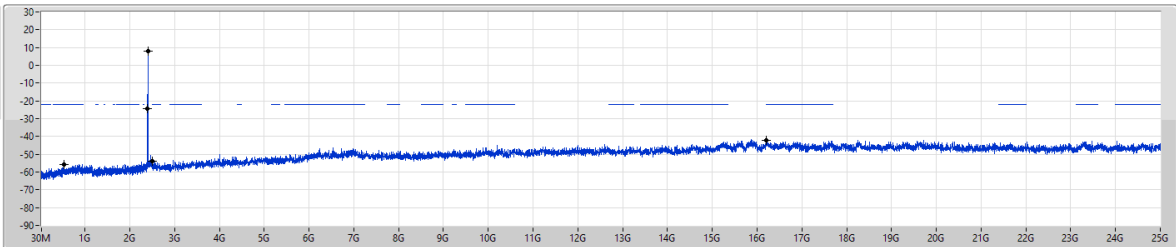
CSENdB-DTS

2402MHz

13/10/2024

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

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40234G	7.95	-22.05	524.68M	-55.69	2.39996G	-24.42	2.4G	-24.29	2.50126G	-53.77	16.20387G	-42.16	1

2.4-2.4835GHz_BT-LE(125kbps)

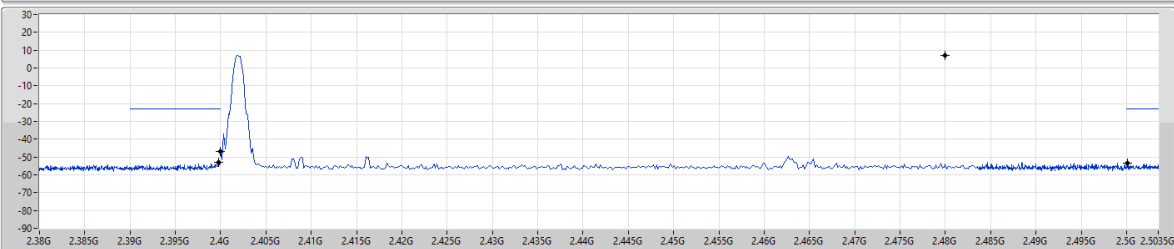
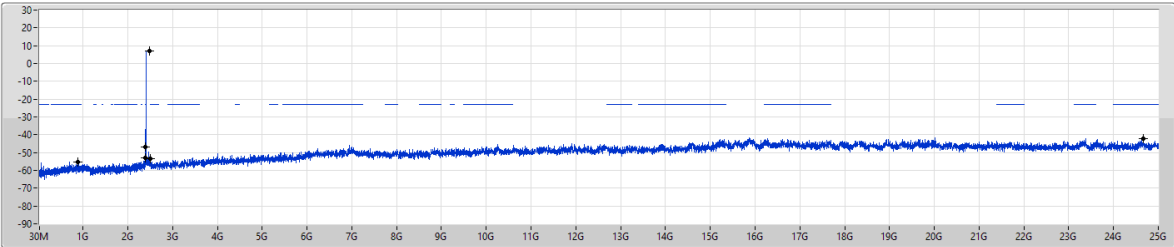
CSEndB-DTS

2402MHz

13/10/2024

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

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47999G	7.01	-22.99	879.53M	-55.17	2.39976G	-52.75	2.4G	-46.74	2.50014G	-53.55	2.466536G	-42.21	1

2.4-2.4835GHz_BT-LE(500kbps)

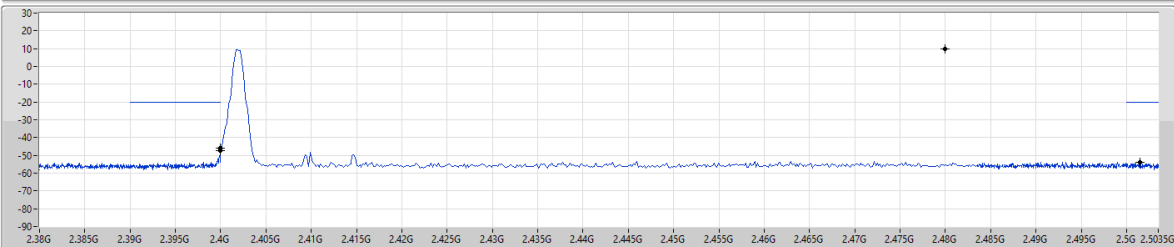
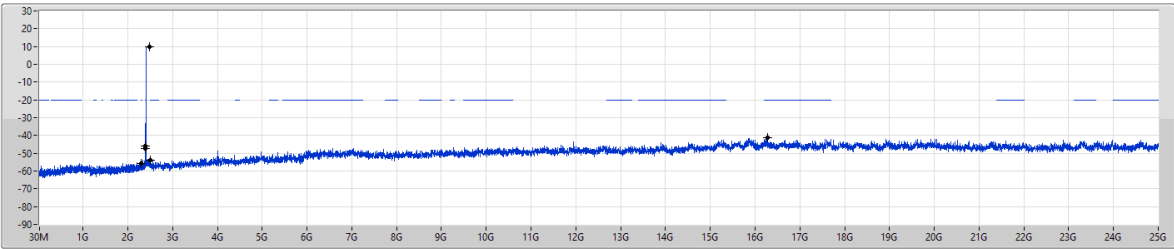
CSEndB-DTS

2402MHz

13/10/2024

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

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47999G	9.63	-20.37	2.30363G	-55.67	2.39996G	-47.23	2.4G	-45.84	2.5015G	-53.94	16.27698G	-41.41	1

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)_1TX(Port2)	Pass	2.44025G	10.58	-19.42	2.16263G	-55.05	2.4G	-49.31	2.4G	-47.12	2.5003G	-53.97	16.54132G	-42.59	2
BT-LE(125kbps)_1TX(Port2)	Pass	2.43991G	7.94	-22.06	2.05335G	-55.62	2.4G	-47.95	2.4G	-52.72	2.50346G	-54.48	16.74378G	-42.01	2
BT-LE(500kbps)_1TX(Port2)	Pass	2.43991G	10.82	-19.18	800.8M	-54.50	2.39996G	-47.03	2.4G	-44.10	2.50218G	-53.55	16.62287G	-42.33	2
BT-LE(2Mbps)_1TX(Port2)	Pass	2.44041G	10.54	-19.46	725.6M	-54.71	2.4G	-21.56	2.4G	-22.10	2.50054G	-53.80	16.96875G	-42.37	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)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44025G	10.58	-19.42	2.16263G	-55.05	2.4G	-49.31	2.4G	-47.12	2.5003G	-53.97	16.54132G	-42.59	2
2440MHz	Pass	2.44025G	10.58	-19.42	2.10858G	-55.89	2.39228G	-53.45	2.4G	-55.90	2.50114G	-54.00	16.22355G	-41.28	2
2480MHz	Pass	2.44025G	10.58	-19.42	826.65M	-53.85	2.39468G	-54.25	2.4G	-55.66	2.50034G	-53.65	23.33526G	-41.29	2
BT-LE(2Mbps)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44041G	10.54	-19.46	725.6M	-54.71	2.4G	-21.56	2.4G	-22.10	2.50054G	-53.80	16.96875G	-42.37	2
2440MHz	Pass	2.44041G	10.54	-19.46	944.15M	-55.28	2.39844G	-53.72	2.4G	-56.45	2.50278G	-53.05	24.61194G	-42.03	2
2480MHz	Pass	2.44041G	10.54	-19.46	782M	-55.73	2.39376G	-53.93	2.4G	-55.87	2.50158G	-54.33	16.49632G	-42.18	2
BT-LE(125kbps)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43991G	7.94	-22.06	2.05335G	-55.62	2.4G	-47.95	2.4G	-52.72	2.50346G	-54.48	16.74378G	-42.01	2
2440MHz	Pass	2.43991G	7.94	-22.06	2.16263G	-54.60	2.39516G	-53.87	2.4G	-56.84	2.50282G	-53.99	16.25167G	-42.31	2
2480MHz	Pass	2.43991G	7.94	-22.06	787.88M	-55.46	2.39624G	-53.62	2.4G	-56.37	2.50154G	-53.98	16.26855G	-41.40	2
BT-LE(500kbps)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43991G	10.82	-19.18	800.8M	-54.50	2.39996G	-47.03	2.4G	-44.10	2.50218G	-53.55	16.62287G	-42.33	2
2440MHz	Pass	2.43991G	10.82	-19.18	2.30245G	-55.00	2.39776G	-53.33	2.4G	-56.62	2.50118G	-53.96	17.66895G	-42.01	2
2480MHz	Pass	2.43991G	10.82	-19.18	826.65M	-53.32	2.39784G	-54.17	2.4G	-56.61	2.50038G	-53.12	15.33775G	-42.23	2

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

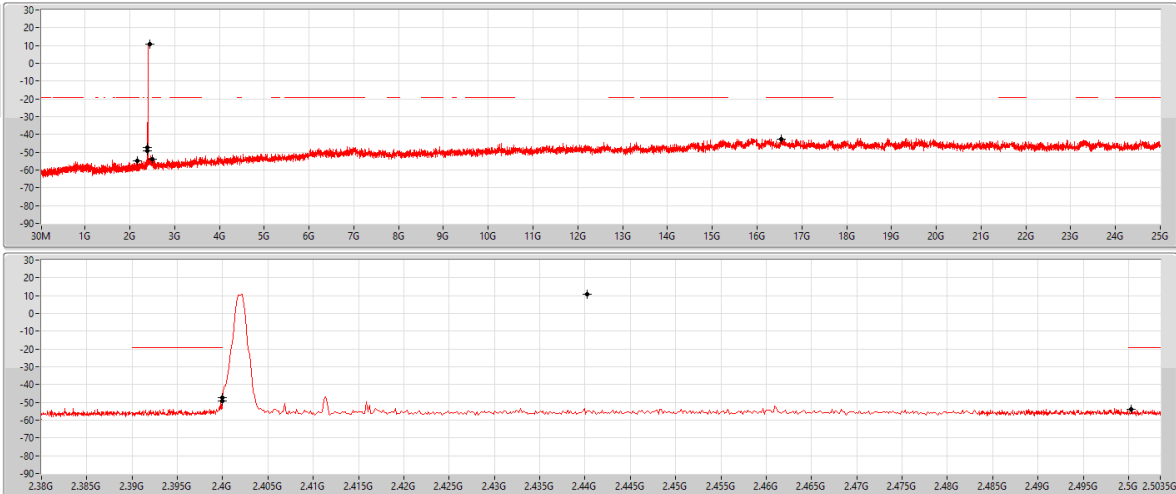
CSEndB-DTS

2402MHz

13/10/2024

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

Port 2



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
2.44025G	10.58	-19.42	2.16263G	-55.05	2.4G	-49.31	2.4G	-47.12	2.5003G	-53.97	16.54132G	-42.59	2

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

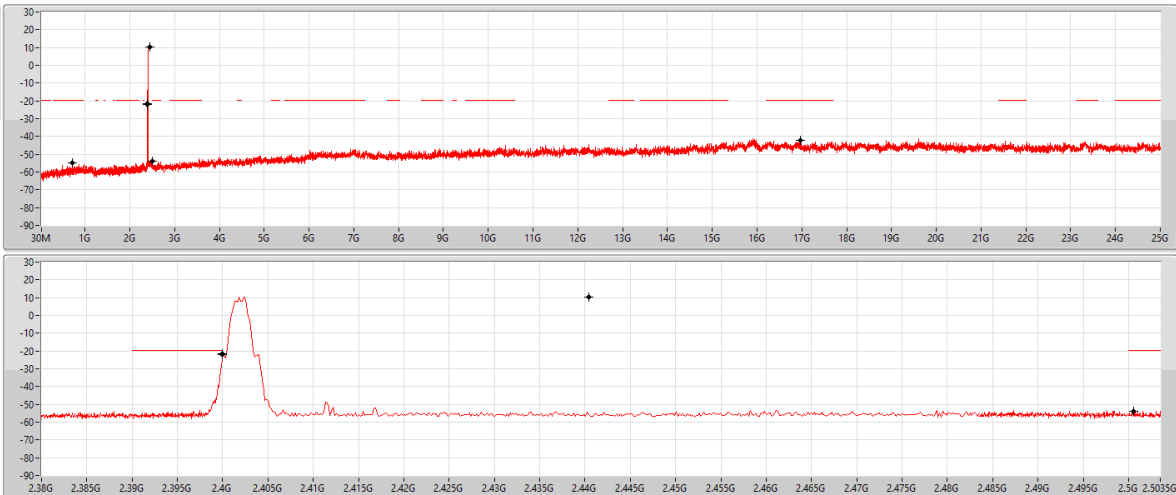
CSEndB-DTS

2402MHz

13/10/2024

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

Port 2



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
2.44041G	10.54	-19.46	725.6M	-54.71	2.4G	-21.56	2.4G	-22.10	2.50054G	-53.80	16.96875G	-42.37	2

2.4-2.4835GHz_BT-LE(125kbps)_1TX(Port2)

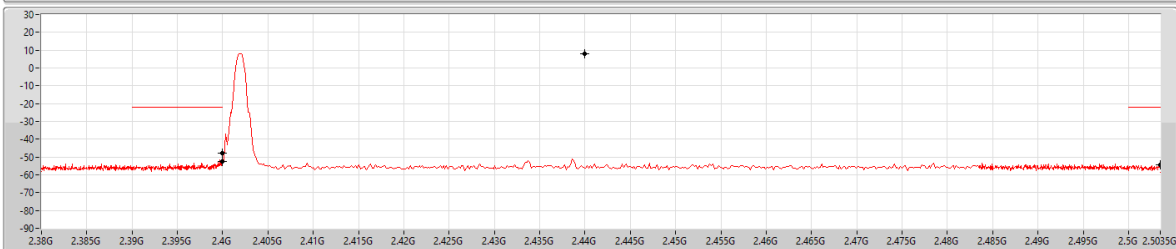
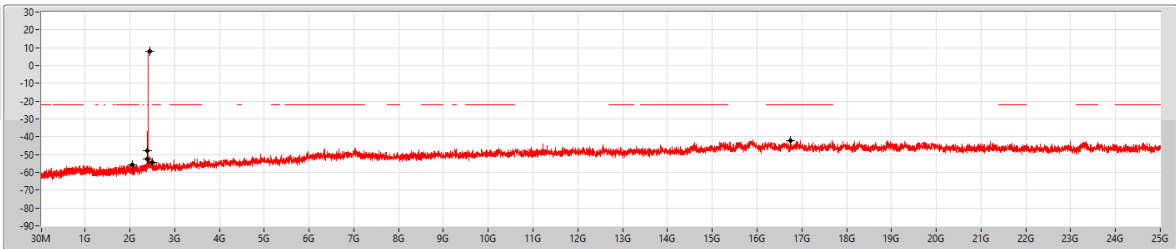
CSEndB-DTS

2402MHz

13/10/2024

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

Port 2



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
2.43991G	7.94	-22.06	2.05335G	-55.62	2.4G	-47.95	2.4G	-52.72	2.50346G	-54.48	16.74378G	-42.01	2

2.4-2.4835GHz_BT-LE(500kbps)_1TX(Port2)

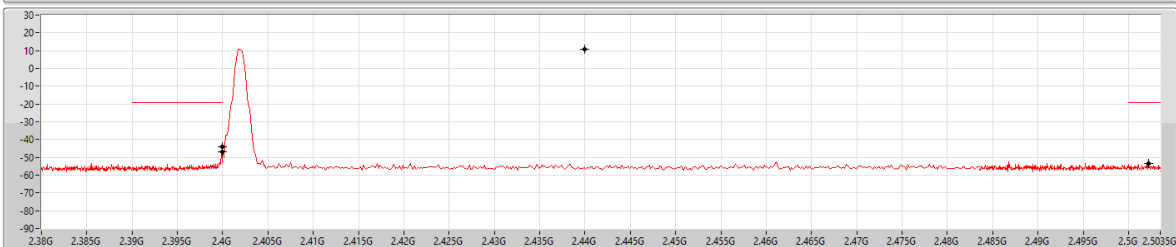
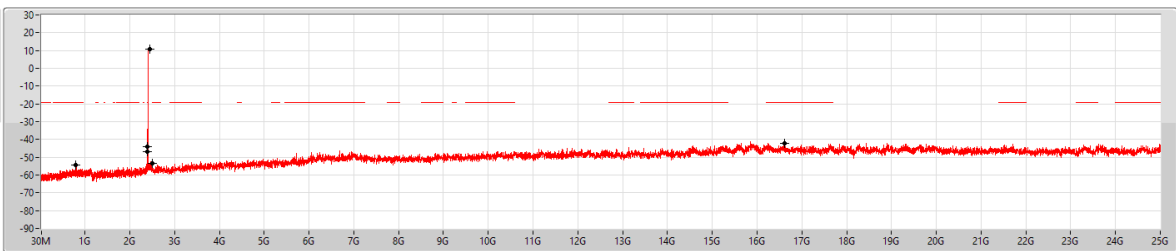
CSEndB-DTS

2402MHz

13/10/2024

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

Port 2



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
2.43991G	10.82	-19.18	800.8M	-54.50	2.39996G	-47.03	2.4G	-44.10	2.50218G	-53.55	16.62287G	-42.33	2



Summary

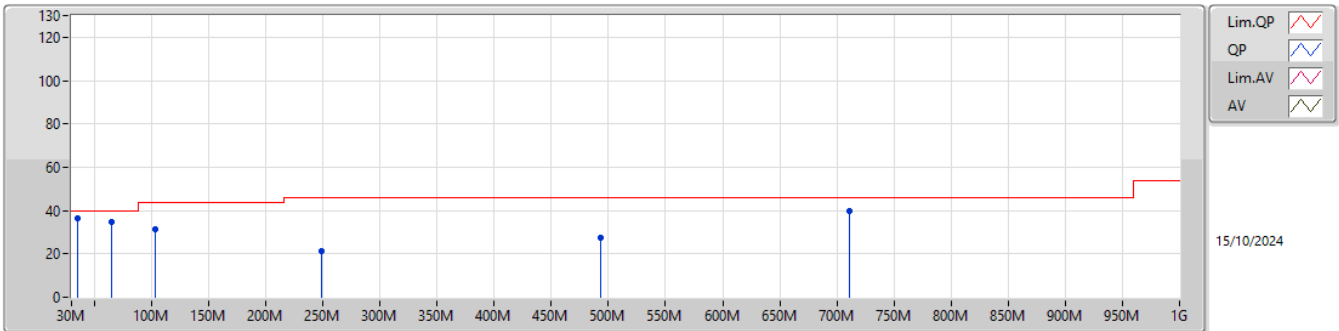
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	PK	35.82M	36.63	40.00	-3.37	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz_PoE	Pass	PK	35.82M	36.63	40.00	-3.37	3	Vertical	360	1.00
2402MHz_PoE	Pass	PK	64.92M	34.75	40.00	-5.25	3	Vertical	360	1.00
2402MHz_PoE	Pass	PK	103.72M	31.64	43.50	-11.86	3	Vertical	360	1.00
2402MHz_PoE	Pass	PK	249.22M	21.51	46.00	-24.49	3	Vertical	360	1.00
2402MHz_PoE	Pass	PK	493.66M	27.72	46.00	-18.28	3	Vertical	360	1.00
2402MHz_PoE	Pass	PK	710.94M	39.60	46.00	-6.40	3	Vertical	360	1.00
2402MHz_PoE	Pass	PK	35.82M	25.79	40.00	-14.21	3	Horizontal	0	1.00
2402MHz_PoE	Pass	PK	49.4M	19.43	40.00	-20.57	3	Horizontal	0	1.00
2402MHz_PoE	Pass	PK	119.24M	22.05	43.50	-21.45	3	Horizontal	0	1.00
2402MHz_PoE	Pass	PK	156.1M	20.27	43.50	-23.23	3	Horizontal	0	1.00
2402MHz_PoE	Pass	PK	249.22M	22.34	46.00	-23.66	3	Horizontal	0	1.00
2402MHz_PoE	Pass	PK	825.4M	28.66	46.00	-17.34	3	Horizontal	0	1.00

2.4-2.4835GHz_BT-LE(1Mbps)

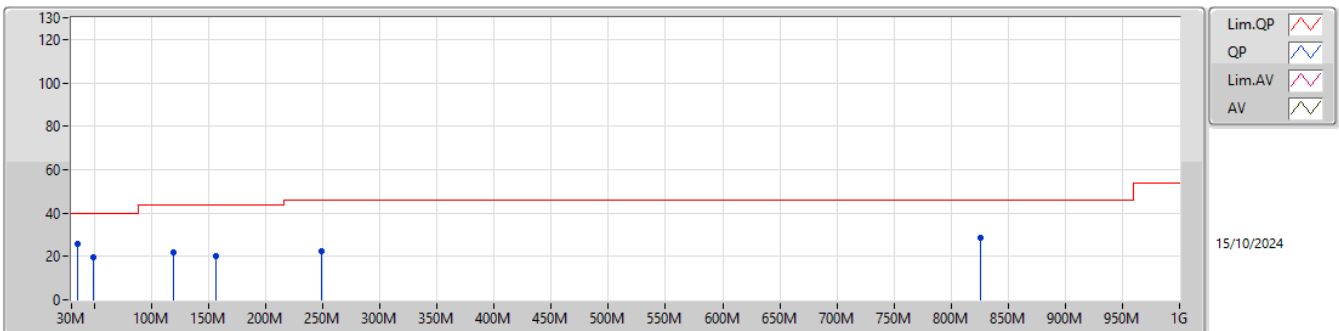
2402MHz_PoE



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)				
PK	35.82M	36.63	40.00	-3.37	-22.01	3	Vertical	360	1.00	58.64	21.83	0.59	44.43				
PK	64.92M	34.75	40.00	-5.25	-31.84	3	Vertical	360	1.00	66.59	12.08	0.79	44.71				
PK	103.72M	31.64	43.50	-11.86	-27.08	3	Vertical	360	1.00	58.72	16.54	0.98	44.60				
PK	249.22M	21.51	46.00	-24.49	-24.34	3	Vertical	360	1.00	45.85	18.62	1.48	44.44				
PK	493.66M	27.72	46.00	-18.28	-17.88	3	Vertical	360	1.00	45.60	24.01	2.08	43.97				
PK	710.94M	39.60	46.00	-6.40	-14.41	3	Vertical	360	1.00	54.01	27.06	2.45	43.92				

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_PoE



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)				
PK	35.82M	25.79	40.00	-14.21	-22.01	3	Horizontal	0	1.00	47.80	21.83	0.59	44.43				
PK	49.4M	19.43	40.00	-20.57	-29.05	3	Horizontal	0	1.00	48.48	14.90	0.68	44.63				
PK	119.24M	22.05	43.50	-21.45	-26.02	3	Horizontal	0	1.00	48.07	17.54	1.06	44.62				
PK	156.1M	20.27	43.50	-23.23	-26.62	3	Horizontal	0	1.00	46.89	16.84	1.18	44.64				
PK	249.22M	22.34	46.00	-23.66	-24.34	3	Horizontal	0	1.00	46.68	18.62	1.48	44.44				
PK	825.4M	28.66	46.00	-17.34	-12.71	3	Horizontal	0	1.00	41.37	28.50	2.62	43.83				



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	2.4966G	45.98	54.00	-8.02	3	Horizontal	320	1.40
BT-LE(125kbps)	Pass	AV	2.4856G	45.19	54.00	-8.81	3	Horizontal	305	1.42
BT-LE(500kbps)	Pass	AV	2.4992G	45.48	54.00	-8.52	3	Vertical	354	1.07
BT-LE(2Mbps)	Pass	AV	2.4958G	45.97	54.00	-8.03	3	Horizontal	319	1.39

Result

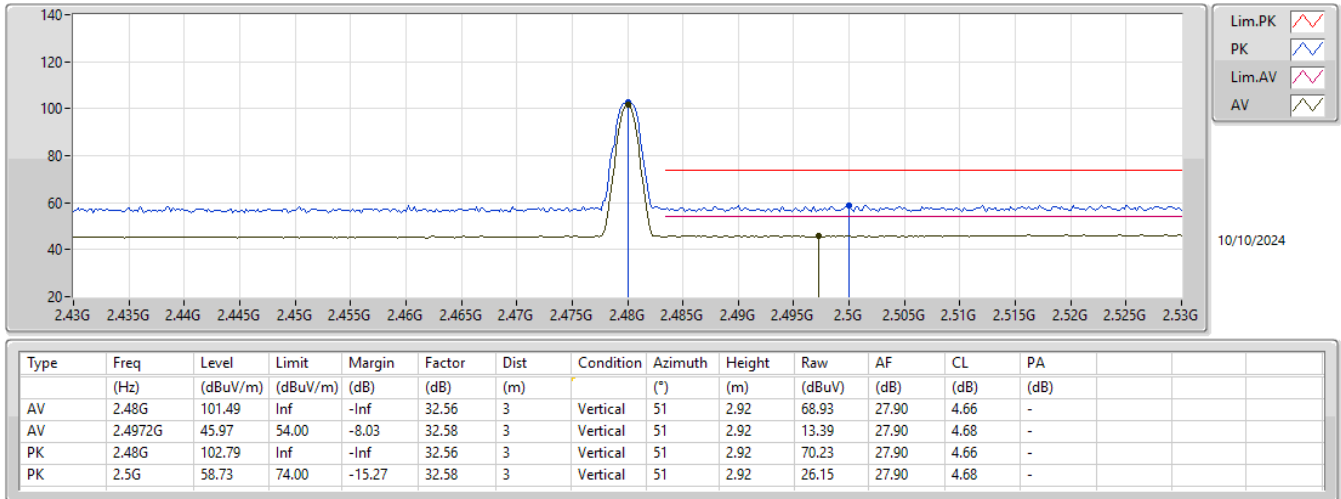
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3896G	45.17	54.00	-8.83	3	Vertical	22	3.00
2402MHz_TX	Pass	AV	2.402G	105.45	Inf	-Inf	3	Vertical	22	3.00
2402MHz_TX	Pass	PK	2.3714G	58.35	74.00	-15.65	3	Vertical	22	3.00
2402MHz_TX	Pass	PK	2.4022G	106.72	Inf	-Inf	3	Vertical	22	3.00
2402MHz_TX	Pass	AV	2.3708G	45.29	54.00	-8.71	3	Horizontal	299	2.00
2402MHz_TX	Pass	AV	2.402G	107.30	Inf	-Inf	3	Horizontal	299	2.00
2402MHz_TX	Pass	PK	2.365G	58.70	74.00	-15.30	3	Horizontal	299	2.00
2402MHz_TX	Pass	PK	2.4022G	108.49	Inf	-Inf	3	Horizontal	299	2.00
2402MHz_TX	Pass	AV	4.8043G	29.94	54.00	-24.06	3	Vertical	233	1.50
2402MHz_TX	Pass	PK	4.80388G	43.02	74.00	-30.98	3	Vertical	233	1.50
2402MHz_TX	Pass	AV	4.80378G	29.86	54.00	-24.14	3	Horizontal	183	1.56
2402MHz_TX	Pass	PK	4.80444G	43.71	74.00	-30.29	3	Horizontal	183	1.56
2440MHz_TX	Pass	AV	2.3608G	45.20	54.00	-8.80	3	Vertical	355	1.06
2440MHz_TX	Pass	AV	2.44G	102.36	Inf	-Inf	3	Vertical	355	1.06
2440MHz_TX	Pass	AV	2.484G	45.79	54.00	-8.21	3	Vertical	355	1.06
2440MHz_TX	Pass	PK	2.3464G	58.40	74.00	-15.60	3	Vertical	355	1.06
2440MHz_TX	Pass	PK	2.44G	103.67	Inf	-Inf	3	Vertical	355	1.06
2440MHz_TX	Pass	PK	2.4968G	58.23	74.00	-15.77	3	Vertical	355	1.06
2440MHz_TX	Pass	AV	2.3852G	45.25	54.00	-8.75	3	Horizontal	304	1.41
2440MHz_TX	Pass	AV	2.44G	106.84	Inf	-Inf	3	Horizontal	304	1.41
2440MHz_TX	Pass	AV	2.4876G	45.85	54.00	-8.15	3	Horizontal	304	1.41
2440MHz_TX	Pass	PK	2.378G	58.21	74.00	-15.79	3	Horizontal	304	1.41
2440MHz_TX	Pass	PK	2.44G	108.05	Inf	-Inf	3	Horizontal	304	1.41
2440MHz_TX	Pass	PK	2.4992G	58.29	74.00	-15.71	3	Horizontal	304	1.41
2440MHz_TX	Pass	AV	4.87968G	30.17	54.00	-23.83	3	Vertical	292	2.18
2440MHz_TX	Pass	PK	4.88776G	42.55	74.00	-31.45	3	Vertical	292	2.18
2440MHz_TX	Pass	AV	4.8786G	30.05	54.00	-23.95	3	Horizontal	3	2.51
2440MHz_TX	Pass	PK	4.88684G	43.54	74.00	-30.46	3	Horizontal	3	2.51
2480MHz_TX	Pass	AV	2.48G	101.49	Inf	-Inf	3	Vertical	51	2.92
2480MHz_TX	Pass	AV	2.4972G	45.97	54.00	-8.03	3	Vertical	51	2.92
2480MHz_TX	Pass	PK	2.48G	102.79	Inf	-Inf	3	Vertical	51	2.92
2480MHz_TX	Pass	PK	2.5G	58.73	74.00	-15.27	3	Vertical	51	2.92
2480MHz_TX	Pass	AV	2.48G	105.32	Inf	-Inf	3	Horizontal	320	1.40
2480MHz_TX	Pass	AV	2.4966G	45.98	54.00	-8.02	3	Horizontal	320	1.40
2480MHz_TX	Pass	PK	2.4802G	106.36	Inf	-Inf	3	Horizontal	320	1.40
2480MHz_TX	Pass	PK	2.4996G	59.03	74.00	-14.97	3	Horizontal	320	1.40
2480MHz_TX	Pass	AV	4.95364G	30.43	54.00	-23.57	3	Vertical	55	2.51
2480MHz_TX	Pass	PK	4.96792G	43.62	74.00	-30.38	3	Vertical	55	2.51
2480MHz_TX	Pass	AV	4.95268G	30.48	54.00	-23.52	3	Horizontal	358	2.20
2480MHz_TX	Pass	PK	4.95304G	43.48	74.00	-30.52	3	Horizontal	358	2.20
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3798G	45.16	54.00	-8.84	3	Vertical	20	3.00
2402MHz_TX	Pass	AV	2.402G	105.63	Inf	-Inf	3	Vertical	20	3.00
2402MHz_TX	Pass	PK	2.3748G	57.86	74.00	-16.14	3	Vertical	20	3.00
2402MHz_TX	Pass	PK	2.4016G	106.47	Inf	-Inf	3	Vertical	20	3.00
2402MHz_TX	Pass	AV	2.3886G	45.19	54.00	-8.81	3	Horizontal	299	2.01
2402MHz_TX	Pass	AV	2.402G	107.40	Inf	-Inf	3	Horizontal	299	2.01
2402MHz_TX	Pass	PK	2.3804G	58.42	74.00	-15.58	3	Horizontal	299	2.01
2402MHz_TX	Pass	PK	2.4016G	108.31	Inf	-Inf	3	Horizontal	299	2.01
2402MHz_TX	Pass	AV	4.80556G	29.82	54.00	-24.18	3	Vertical	350	2.31
2402MHz_TX	Pass	PK	4.79568G	42.69	74.00	-31.31	3	Vertical	350	2.31
2402MHz_TX	Pass	AV	4.81368G	29.93	54.00	-24.07	3	Horizontal	82	1.16
2402MHz_TX	Pass	PK	4.80976G	42.83	74.00	-31.17	3	Horizontal	82	1.16
2440MHz_TX	Pass	AV	2.386G	45.16	54.00	-8.84	3	Vertical	354	1.05
2440MHz_TX	Pass	AV	2.44G	102.48	Inf	-Inf	3	Vertical	354	1.05
2440MHz_TX	Pass	AV	2.4956G	45.87	54.00	-8.13	3	Vertical	354	1.05
2440MHz_TX	Pass	PK	2.3564G	57.93	74.00	-16.07	3	Vertical	354	1.05
2440MHz_TX	Pass	PK	2.4396G	103.19	Inf	-Inf	3	Vertical	354	1.05
2440MHz_TX	Pass	PK	2.4936G	59.23	74.00	-14.77	3	Vertical	354	1.05
2440MHz_TX	Pass	AV	2.3556G	45.19	54.00	-8.81	3	Horizontal	303	1.42

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz_TX	Pass	AV	2.44G	107.16	Inf	-Inf	3	Horizontal	303	1.42
2440MHz_TX	Pass	AV	2.4976G	45.90	54.00	-8.10	3	Horizontal	303	1.42
2440MHz_TX	Pass	PK	2.3724G	58.08	74.00	-15.92	3	Horizontal	303	1.42
2440MHz_TX	Pass	PK	2.4396G	107.97	Inf	-Inf	3	Horizontal	303	1.42
2440MHz_TX	Pass	PK	2.4996G	58.20	74.00	-15.80	3	Horizontal	303	1.42
2440MHz_TX	Pass	AV	4.8854G	30.38	54.00	-23.62	3	Vertical	235	1.01
2440MHz_TX	Pass	PK	4.87292G	42.97	74.00	-31.03	3	Vertical	235	1.01
2440MHz_TX	Pass	AV	4.88136G	30.12	54.00	-23.88	3	Horizontal	165	2.77
2440MHz_TX	Pass	PK	4.87788G	42.95	74.00	-31.05	3	Horizontal	165	2.77
2480MHz_TX	Pass	AV	2.48G	101.66	Inf	-Inf	3	Vertical	51	2.92
2480MHz_TX	Pass	AV	2.4912G	45.94	54.00	-8.06	3	Vertical	51	2.92
2480MHz_TX	Pass	PK	2.4806G	102.54	Inf	-Inf	3	Vertical	51	2.92
2480MHz_TX	Pass	PK	2.4866G	58.79	74.00	-15.21	3	Vertical	51	2.92
2480MHz_TX	Pass	AV	2.48G	106.11	Inf	-Inf	3	Horizontal	319	1.39
2480MHz_TX	Pass	AV	2.4958G	45.97	54.00	-8.03	3	Horizontal	319	1.39
2480MHz_TX	Pass	PK	2.4796G	106.95	Inf	-Inf	3	Horizontal	319	1.39
2480MHz_TX	Pass	PK	2.4878G	59.27	74.00	-14.73	3	Horizontal	319	1.39
2480MHz_TX	Pass	AV	4.96784G	30.55	54.00	-23.45	3	Vertical	347	2.45
2480MHz_TX	Pass	PK	4.95428G	43.13	74.00	-30.87	3	Vertical	347	2.45
2480MHz_TX	Pass	AV	4.96892G	30.57	54.00	-23.43	3	Horizontal	35	2.17
2480MHz_TX	Pass	PK	4.95752G	43.20	74.00	-30.80	3	Horizontal	35	2.17
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3878G	44.53	54.00	-9.47	3	Vertical	20	3.00
2402MHz_TX	Pass	AV	2.402G	105.46	Inf	-Inf	3	Vertical	20	3.00
2402MHz_TX	Pass	PK	2.3622G	58.32	74.00	-15.68	3	Vertical	20	3.00
2402MHz_TX	Pass	PK	2.4018G	107.03	Inf	-Inf	3	Vertical	20	3.00
2402MHz_TX	Pass	AV	2.3884G	44.49	54.00	-9.51	3	Horizontal	300	2.00
2402MHz_TX	Pass	AV	2.402G	106.94	Inf	-Inf	3	Horizontal	300	2.00
2402MHz_TX	Pass	PK	2.3794G	58.15	74.00	-15.85	3	Horizontal	300	2.00
2402MHz_TX	Pass	PK	2.4018G	108.15	Inf	-Inf	3	Horizontal	300	2.00
2402MHz_TX	Pass	AV	4.80964G	29.18	54.00	-24.82	3	Vertical	237	1.60
2402MHz_TX	Pass	PK	4.80348G	43.44	74.00	-30.56	3	Vertical	237	1.60
2402MHz_TX	Pass	AV	4.81356G	29.23	54.00	-24.77	3	Horizontal	329	1.41
2402MHz_TX	Pass	PK	4.81248G	42.24	74.00	-31.76	3	Horizontal	329	1.41
2440MHz_TX	Pass	AV	2.3896G	44.46	54.00	-9.54	3	Vertical	354	1.05
2440MHz_TX	Pass	AV	2.44G	102.25	Inf	-Inf	3	Vertical	354	1.05
2440MHz_TX	Pass	AV	2.4872G	45.13	54.00	-8.87	3	Vertical	354	1.05
2440MHz_TX	Pass	PK	2.3888G	57.93	74.00	-16.07	3	Vertical	354	1.05
2440MHz_TX	Pass	PK	2.44G	103.82	Inf	-Inf	3	Vertical	354	1.05
2440MHz_TX	Pass	PK	2.4936G	58.63	74.00	-15.37	3	Vertical	354	1.05
2440MHz_TX	Pass	AV	2.3548G	44.39	54.00	-9.61	3	Horizontal	305	1.42
2440MHz_TX	Pass	AV	2.44G	106.70	Inf	-Inf	3	Horizontal	305	1.42
2440MHz_TX	Pass	AV	2.4856G	45.19	54.00	-8.81	3	Horizontal	305	1.42
2440MHz_TX	Pass	PK	2.3868G	58.17	74.00	-15.83	3	Horizontal	305	1.42
2440MHz_TX	Pass	PK	2.4396G	107.89	Inf	-Inf	3	Horizontal	305	1.42
2440MHz_TX	Pass	PK	2.4952G	58.44	74.00	-15.56	3	Horizontal	305	1.42
2440MHz_TX	Pass	AV	4.81228G	29.17	54.00	-24.83	3	Vertical	103	1.50
2440MHz_TX	Pass	PK	4.79508G	42.93	74.00	-31.07	3	Vertical	103	1.50
2440MHz_TX	Pass	AV	4.8134G	29.21	54.00	-24.79	3	Horizontal	34	2.96
2440MHz_TX	Pass	PK	4.81268G	42.93	74.00	-31.07	3	Horizontal	34	2.96
2480MHz_TX	Pass	AV	2.48G	101.17	Inf	-Inf	3	Vertical	50	2.92
2480MHz_TX	Pass	AV	2.4966G	45.15	54.00	-8.85	3	Vertical	50	2.92
2480MHz_TX	Pass	PK	2.4802G	102.38	Inf	-Inf	3	Vertical	50	2.92
2480MHz_TX	Pass	PK	2.4862G	58.78	74.00	-15.22	3	Vertical	50	2.92
2480MHz_TX	Pass	AV	2.48G	104.96	Inf	-Inf	3	Horizontal	320	1.49
2480MHz_TX	Pass	AV	2.4874G	45.16	54.00	-8.84	3	Horizontal	320	1.49
2480MHz_TX	Pass	PK	2.4798G	106.16	Inf	-Inf	3	Horizontal	320	1.49
2480MHz_TX	Pass	PK	2.486G	58.70	74.00	-15.30	3	Horizontal	320	1.49
2480MHz_TX	Pass	AV	4.96908G	29.86	54.00	-24.14	3	Vertical	335	1.63
2480MHz_TX	Pass	PK	4.96724G	43.39	74.00	-30.61	3	Vertical	335	1.63
2480MHz_TX	Pass	AV	4.96996G	29.81	54.00	-24.19	3	Horizontal	27	1.86
2480MHz_TX	Pass	PK	4.96044G	43.81	74.00	-30.19	3	Horizontal	27	1.86

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3884G	44.71	54.00	-9.29	3	Vertical	20	3.00
2402MHz_TX	Pass	AV	2.402G	105.41	Inf	-Inf	3	Vertical	20	3.00
2402MHz_TX	Pass	PK	2.3676G	58.38	74.00	-15.62	3	Vertical	20	3.00
2402MHz_TX	Pass	PK	2.4018G	106.46	Inf	-Inf	3	Vertical	20	3.00
2402MHz_TX	Pass	AV	2.39G	44.72	54.00	-9.28	3	Horizontal	300	2.00
2402MHz_TX	Pass	AV	2.402G	106.96	Inf	-Inf	3	Horizontal	300	2.00
2402MHz_TX	Pass	PK	2.3522G	59.10	74.00	-14.90	3	Horizontal	300	2.00
2402MHz_TX	Pass	PK	2.4018G	108.43	Inf	-Inf	3	Horizontal	300	2.00
2402MHz_TX	Pass	AV	4.80964G	29.41	54.00	-24.59	3	Vertical	86	2.53
2402MHz_TX	Pass	PK	4.7956G	43.06	74.00	-30.94	3	Vertical	86	2.53
2402MHz_TX	Pass	AV	4.80424G	29.31	54.00	-24.69	3	Horizontal	48	1.97
2402MHz_TX	Pass	PK	4.80488G	42.08	74.00	-31.92	3	Horizontal	48	1.97
2440MHz_TX	Pass	AV	2.3872G	44.68	54.00	-9.32	3	Vertical	354	1.07
2440MHz_TX	Pass	AV	2.44G	102.02	Inf	-Inf	3	Vertical	354	1.07
2440MHz_TX	Pass	AV	2.4992G	45.48	54.00	-8.52	3	Vertical	354	1.07
2440MHz_TX	Pass	PK	2.3864G	58.37	74.00	-15.63	3	Vertical	354	1.07
2440MHz_TX	Pass	PK	2.4404G	103.05	Inf	-Inf	3	Vertical	354	1.07
2440MHz_TX	Pass	PK	2.496G	58.96	74.00	-15.04	3	Vertical	354	1.07
2440MHz_TX	Pass	AV	2.3888G	44.63	54.00	-9.37	3	Horizontal	307	1.42
2440MHz_TX	Pass	AV	2.44G	106.84	Inf	-Inf	3	Horizontal	307	1.42
2440MHz_TX	Pass	AV	2.4964G	45.35	54.00	-8.65	3	Horizontal	307	1.42
2440MHz_TX	Pass	PK	2.3852G	58.21	74.00	-15.79	3	Horizontal	307	1.42
2440MHz_TX	Pass	PK	2.44G	108.24	Inf	-Inf	3	Horizontal	307	1.42
2440MHz_TX	Pass	PK	2.494G	58.47	74.00	-15.53	3	Horizontal	307	1.42
2440MHz_TX	Pass	AV	4.87936G	29.64	54.00	-24.36	3	Vertical	253	1.64
2440MHz_TX	Pass	PK	4.87504G	42.28	74.00	-31.72	3	Vertical	253	1.64
2440MHz_TX	Pass	AV	4.87976G	29.66	54.00	-24.34	3	Horizontal	351	2.93
2440MHz_TX	Pass	PK	4.87904G	43.03	74.00	-30.97	3	Horizontal	351	2.93
2480MHz_TX	Pass	AV	2.48G	101.20	Inf	-Inf	3	Vertical	54	2.92
2480MHz_TX	Pass	AV	2.4954G	45.43	54.00	-8.57	3	Vertical	54	2.92
2480MHz_TX	Pass	PK	2.4802G	102.25	Inf	-Inf	3	Vertical	54	2.92
2480MHz_TX	Pass	PK	2.4972G	58.91	74.00	-15.09	3	Vertical	54	2.92
2480MHz_TX	Pass	AV	2.48G	105.32	Inf	-Inf	3	Horizontal	319	1.39
2480MHz_TX	Pass	AV	2.4854G	45.42	54.00	-8.58	3	Horizontal	319	1.39
2480MHz_TX	Pass	PK	2.4798G	106.79	Inf	-Inf	3	Horizontal	319	1.39
2480MHz_TX	Pass	PK	2.4976G	58.70	74.00	-15.30	3	Horizontal	319	1.39
2480MHz_TX	Pass	AV	4.96828G	30.16	54.00	-23.84	3	Vertical	152	2.28
2480MHz_TX	Pass	PK	4.96892G	43.44	74.00	-30.56	3	Vertical	152	2.28
2480MHz_TX	Pass	AV	4.96796G	30.07	54.00	-23.93	3	Horizontal	67	2.56
2480MHz_TX	Pass	PK	4.96152G	43.51	74.00	-30.49	3	Horizontal	67	2.56

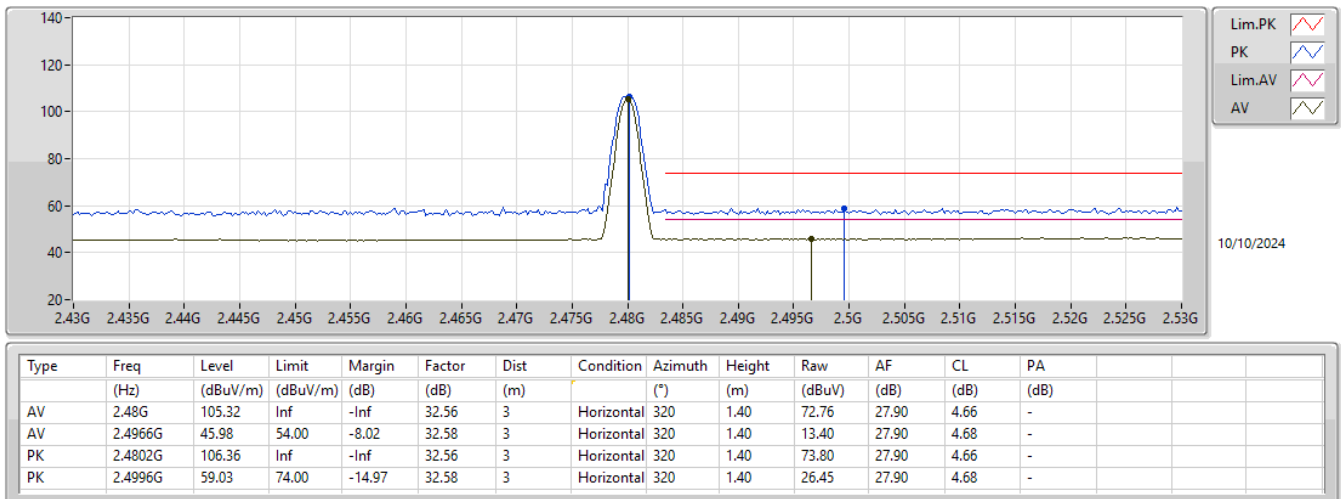
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



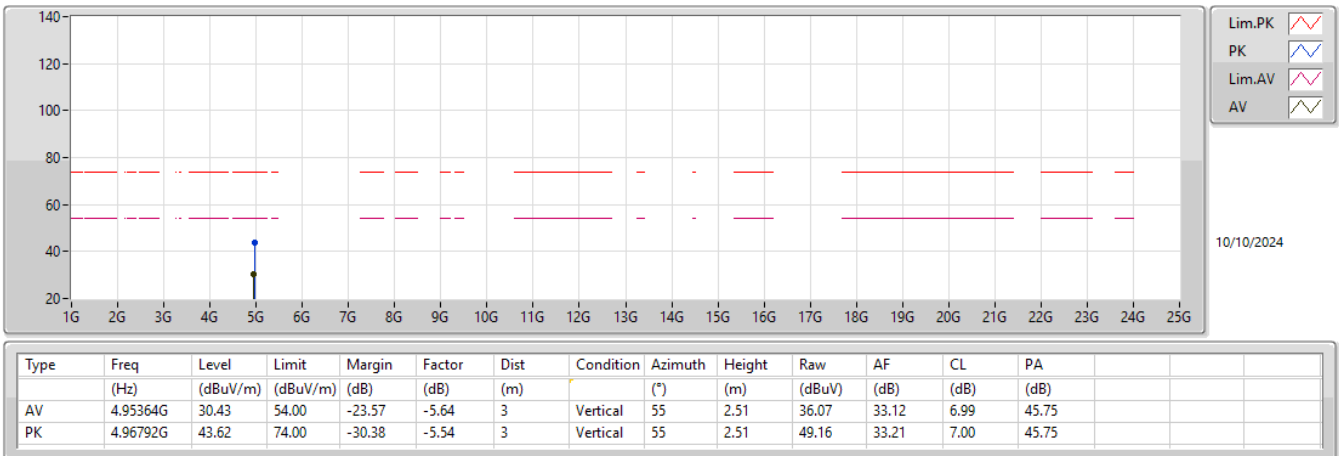
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



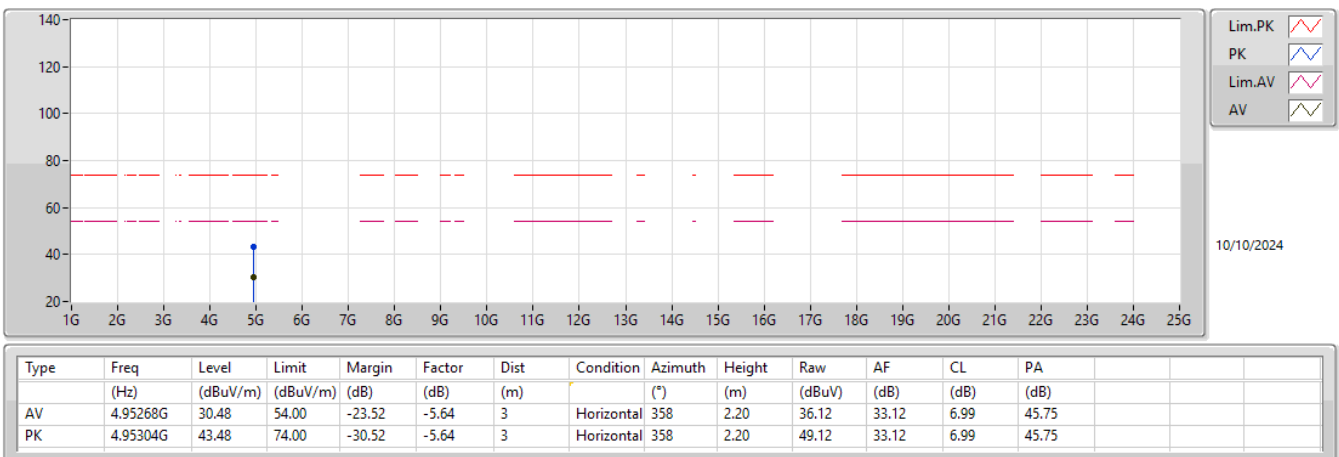
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2480MHz_TX



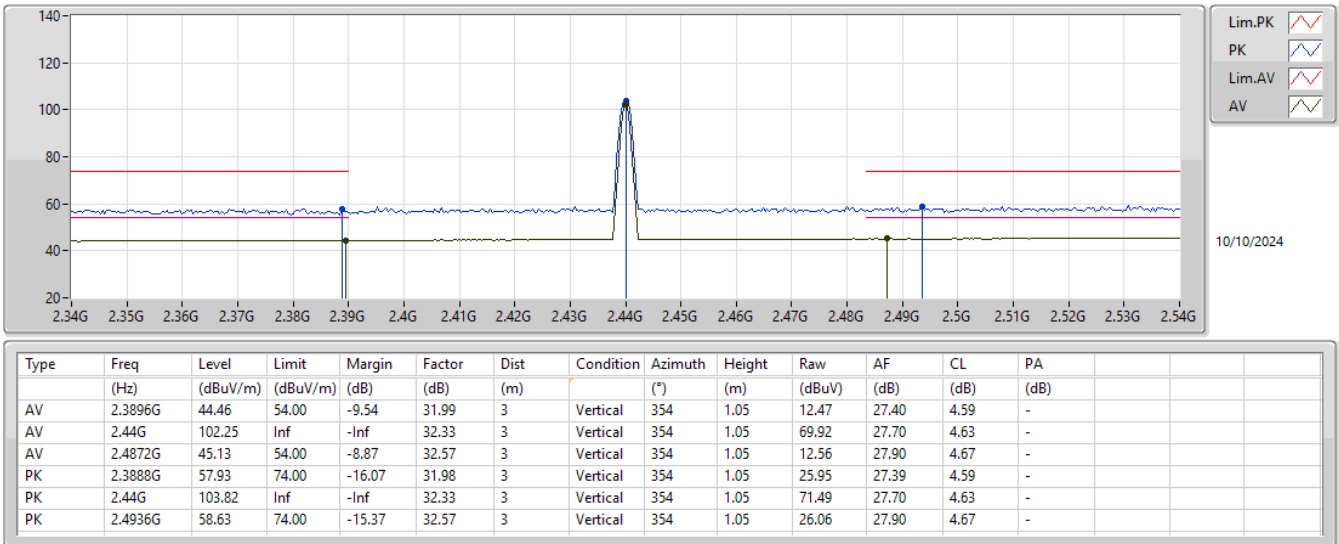
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



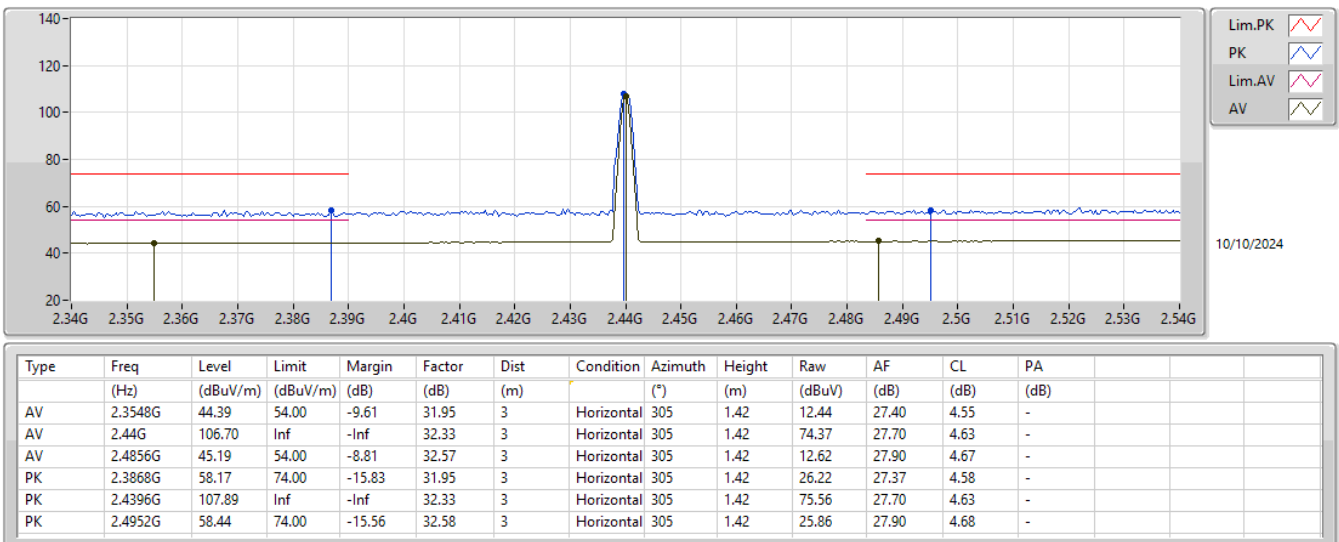
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2440MHz_TX



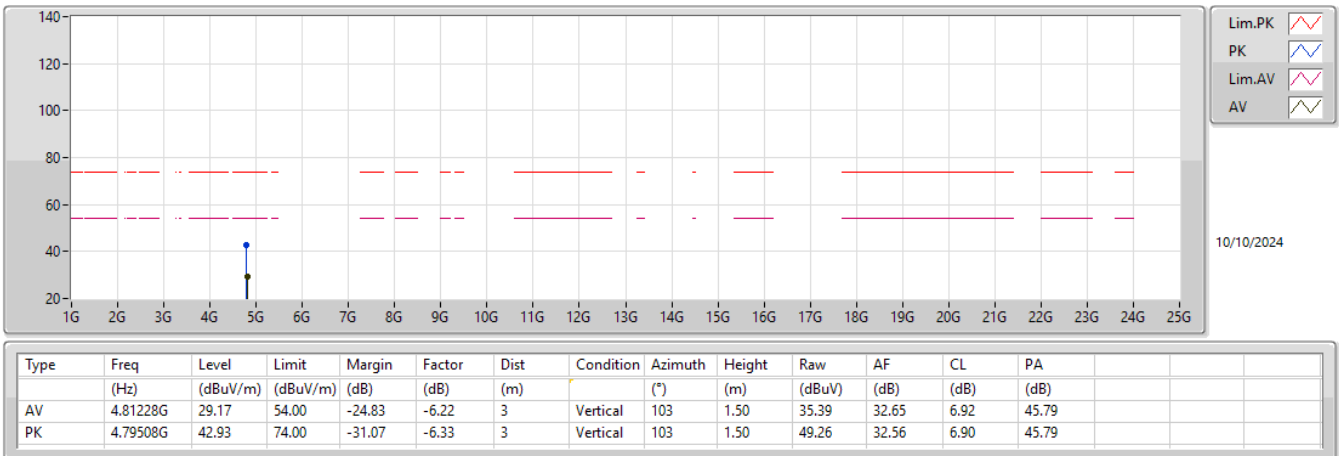
2.4-2.4835GHz_BT-LE(125kbps)

2440MHz_TX



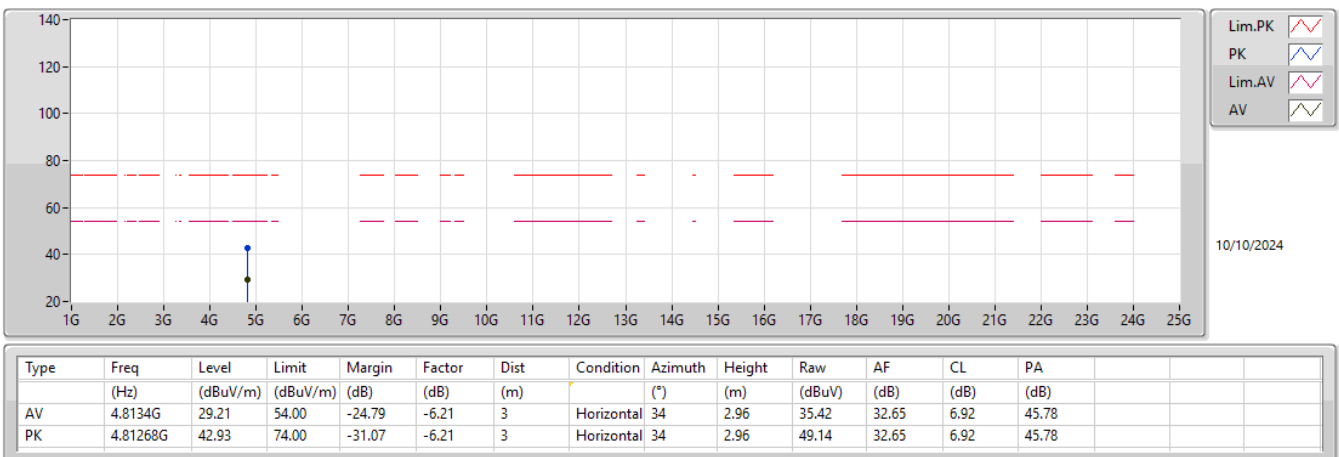
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2440MHz_TX



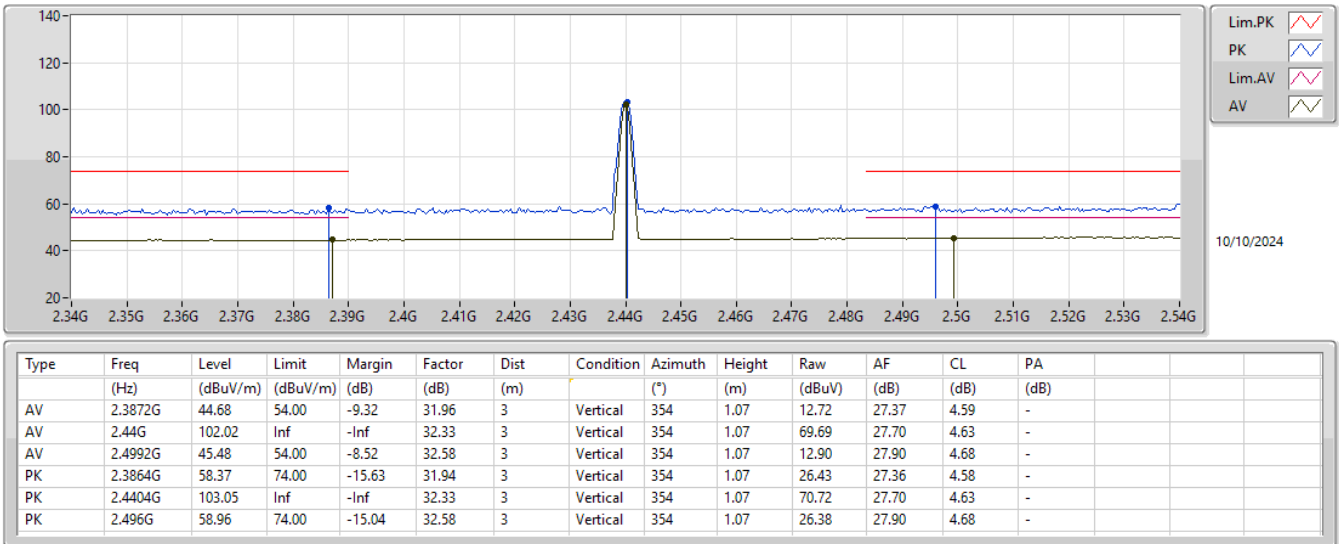
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2440MHz_TX



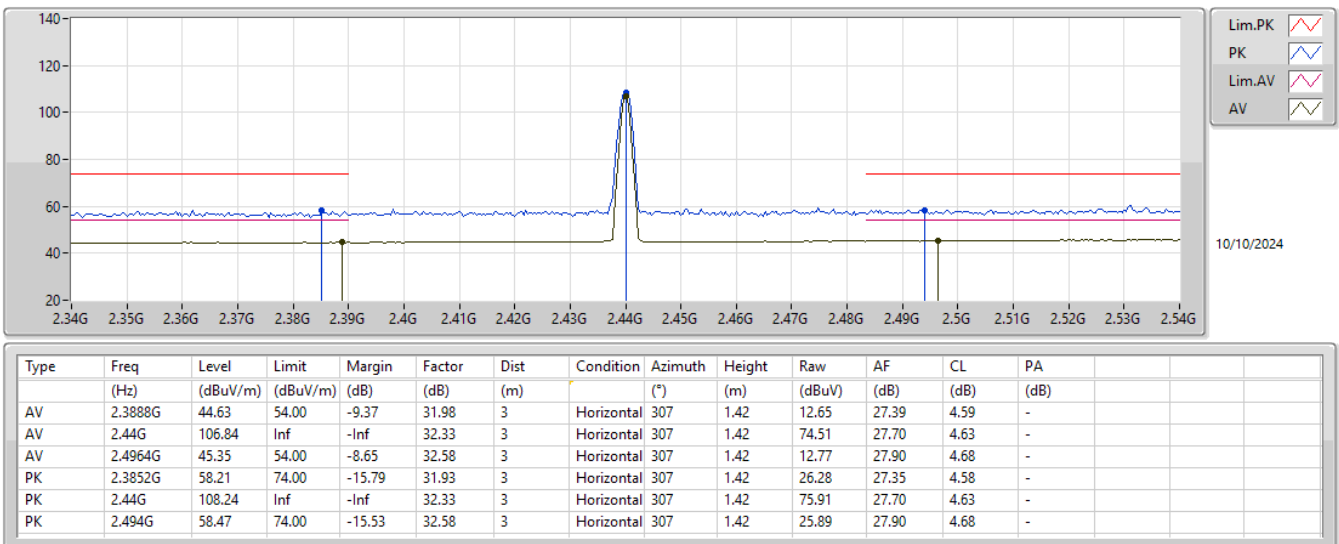
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



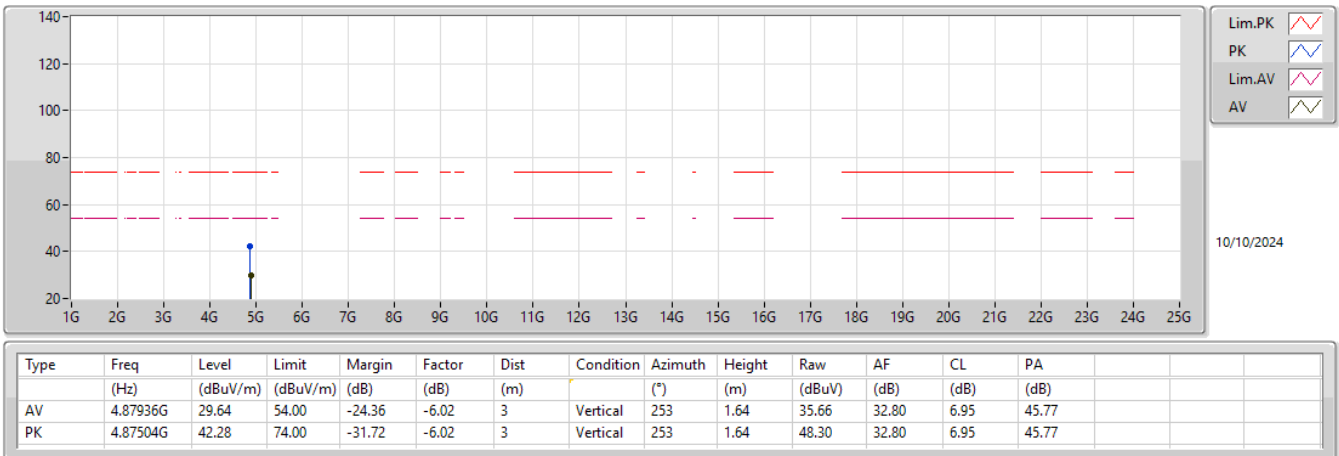
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



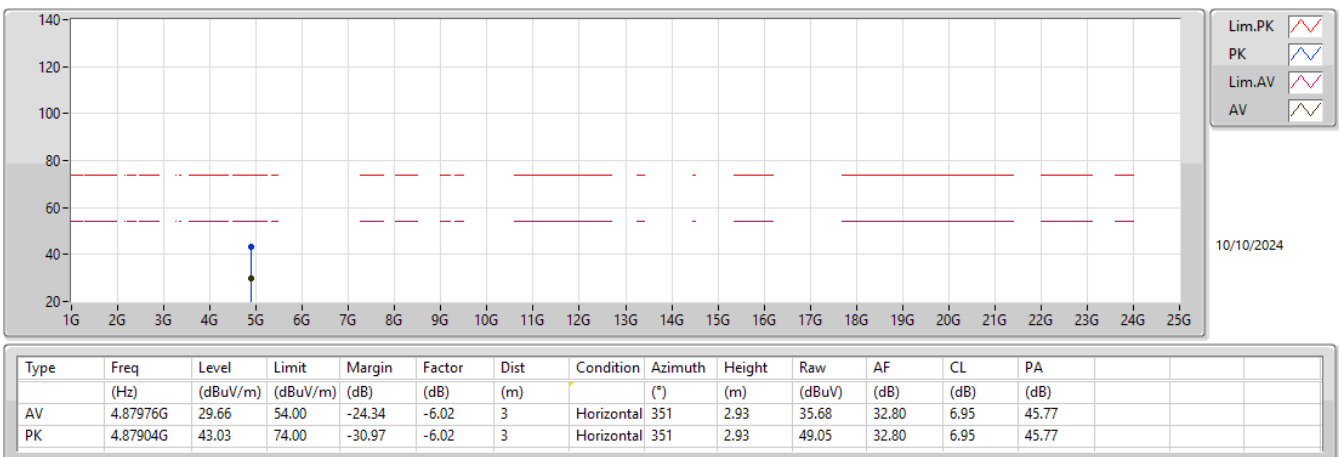
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



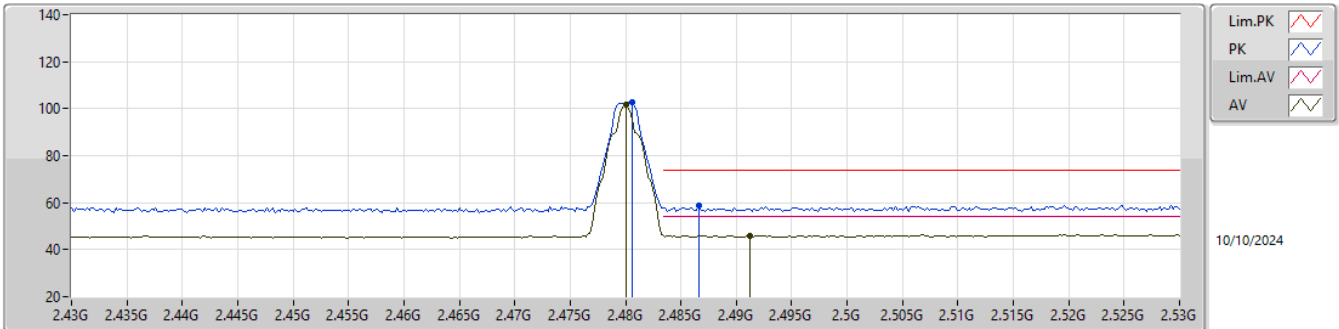
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

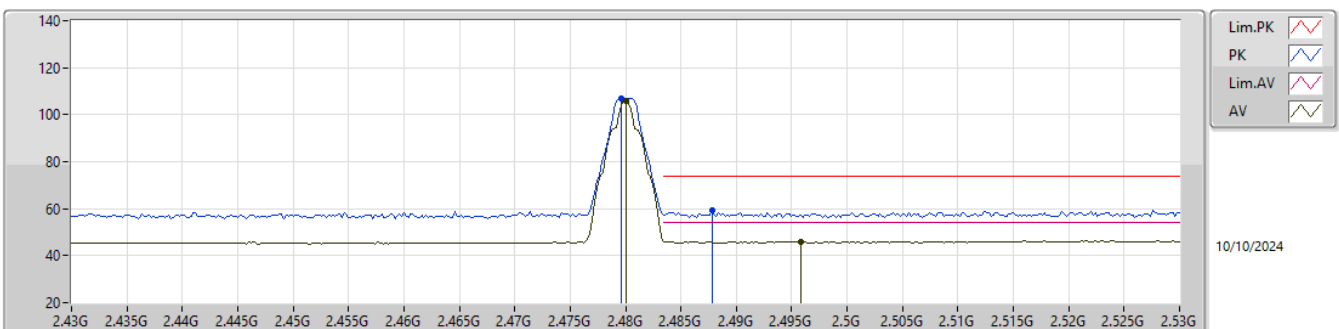
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	101.66	Inf	-Inf	32.56	3	Vertical	51	2.92	69.10	27.90	4.66	-
AV	2.4912G	45.94	54.00	-8.06	32.57	3	Vertical	51	2.92	13.37	27.90	4.67	-
PK	2.4806G	102.54	Inf	-Inf	32.56	3	Vertical	51	2.92	69.98	27.90	4.66	-
PK	2.4866G	58.79	74.00	-15.21	32.57	3	Vertical	51	2.92	26.22	27.90	4.67	-

2.4-2.4835GHz_BT-LE(2Mbps)

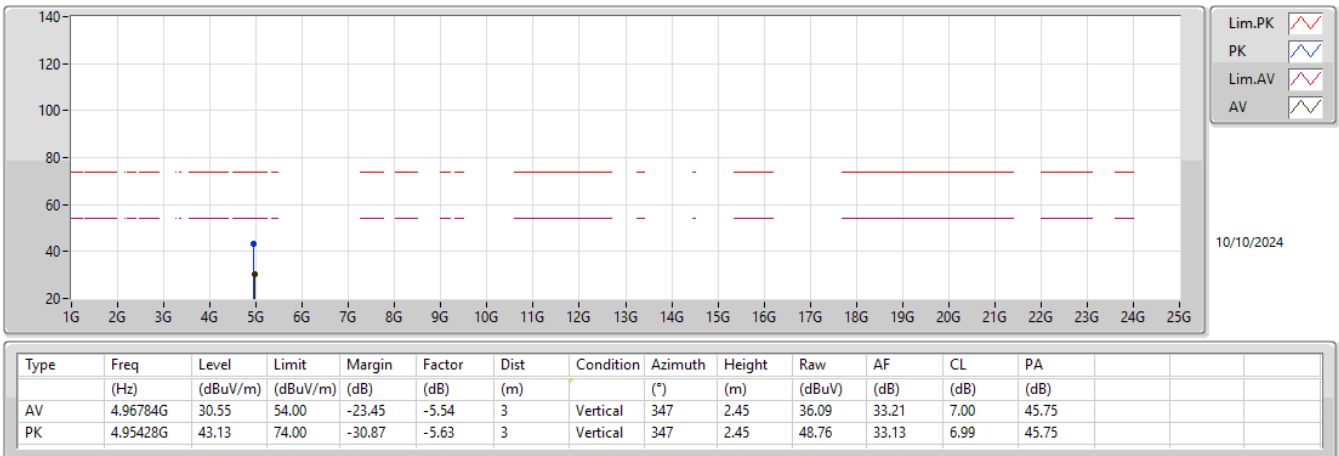
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	106.11	Inf	-Inf	32.56	3	Horizontal	319	1.39	73.55	27.90	4.66	-
AV	2.4958G	45.97	54.00	-8.03	32.58	3	Horizontal	319	1.39	13.39	27.90	4.68	-
PK	2.4796G	106.95	Inf	-Inf	32.55	3	Horizontal	319	1.39	74.40	27.89	4.66	-
PK	2.4878G	59.27	74.00	-14.73	32.57	3	Horizontal	319	1.39	26.70	27.90	4.67	-

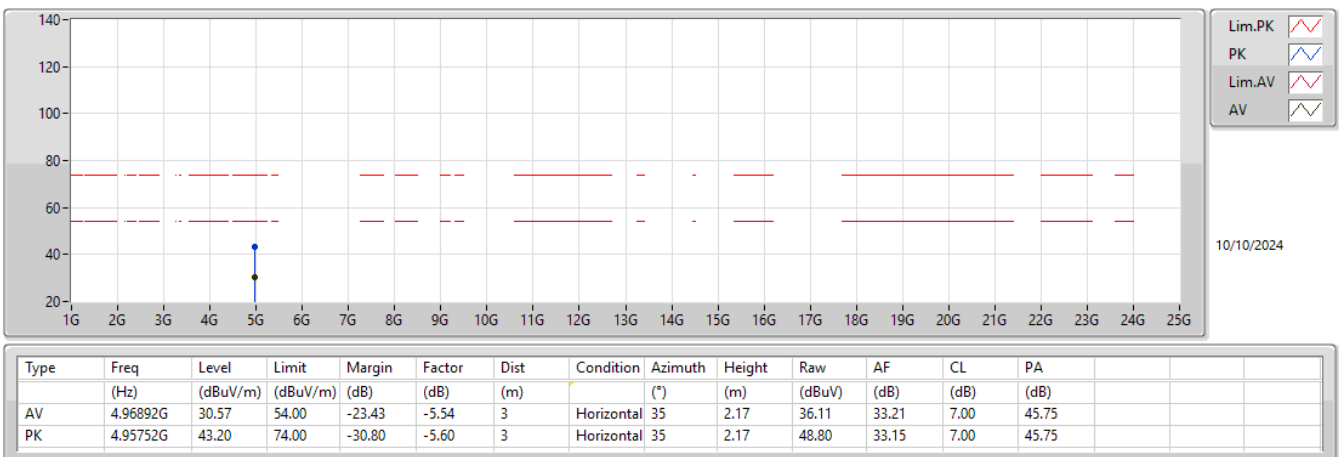
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX





Summary

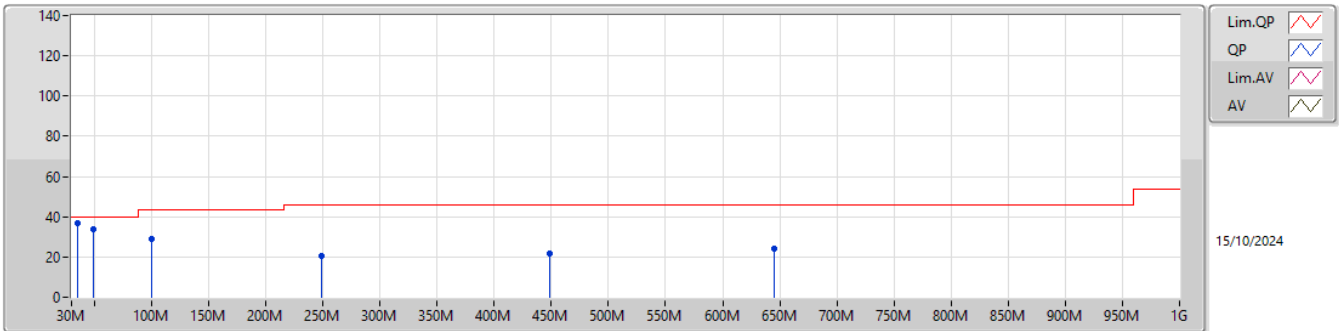
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	PK	35.82M	36.89	40.00	-3.11	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_PoE	Pass	PK	35.82M	36.89	40.00	-3.11	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	49.4M	33.89	40.00	-6.11	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	99.84M	28.97	43.50	-14.53	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	249.22M	20.28	46.00	-25.72	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	449.04M	21.70	46.00	-24.30	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	644.98M	24.00	46.00	-22.00	3	Vertical	360	1.00
2440MHz_PoE	Pass	PK	35.82M	24.81	40.00	-15.19	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	119.24M	20.96	43.50	-22.54	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	158.04M	18.32	43.50	-25.18	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	249.22M	23.10	46.00	-22.90	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	427.7M	19.93	46.00	-26.07	3	Horizontal	0	1.00
2440MHz_PoE	Pass	PK	672.14M	39.47	46.00	-6.53	3	Horizontal	0	1.00

2.4-2.4835GHz_BT-LE(1Mbps)

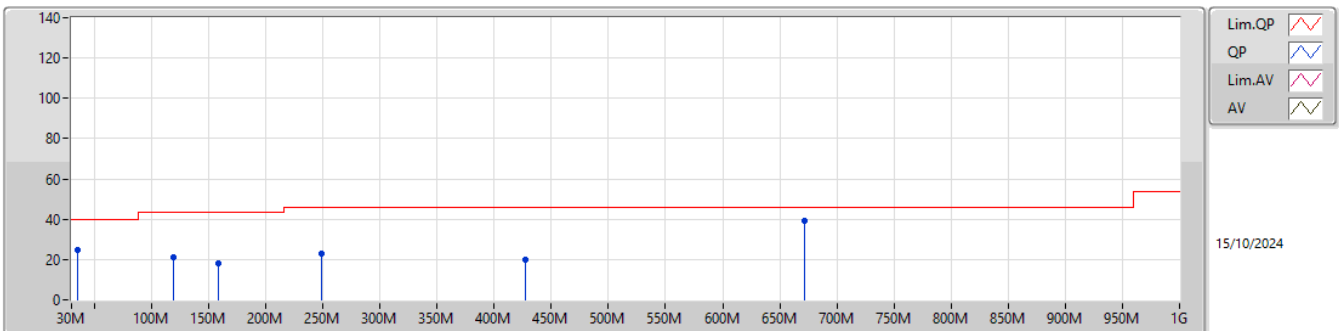
2440MHz_PoE



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)				
PK	35.82M	36.89	40.00	-3.11	-22.01	3	Vertical	360	1.00	58.90	21.83	0.59	44.43				
PK	49.4M	33.89	40.00	-6.11	-29.05	3	Vertical	360	1.00	62.94	14.90	0.68	44.63				
PK	99.84M	28.97	43.50	-14.53	-27.48	3	Vertical	360	1.00	56.45	16.15	0.96	44.59				
PK	249.22M	20.28	46.00	-25.72	-24.34	3	Vertical	360	1.00	44.62	18.62	1.48	44.44				
PK	449.04M	21.70	46.00	-24.30	-18.96	3	Vertical	360	1.00	40.66	23.16	1.91	44.03				
PK	644.98M	24.00	46.00	-22.00	-15.01	3	Vertical	360	1.00	39.01	26.63	2.30	43.94				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_PoE



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)				
PK	35.82M	24.81	40.00	-15.19	-22.01	3	Horizontal	0	1.00	46.82	21.83	0.59	44.43				
PK	119.24M	20.96	43.50	-22.54	-26.02	3	Horizontal	0	1.00	46.98	17.54	1.06	44.62				
PK	158.04M	18.32	43.50	-25.18	-26.71	3	Horizontal	0	1.00	45.03	16.74	1.19	44.64				
PK	249.22M	23.10	46.00	-22.90	-24.34	3	Horizontal	0	1.00	47.44	18.62	1.48	44.44				
PK	427.7M	19.93	46.00	-26.07	-19.36	3	Horizontal	0	1.00	39.29	22.84	1.86	44.06				
PK	672.14M	39.47	46.00	-6.53	-15.17	3	Horizontal	0	1.00	54.64	26.41	2.36	43.94				

**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	2.496G	46.01	54.00	-7.99	3	Vertical	55	2.07
BT-LE(125kbps)	Pass	AV	2.4988G	45.21	54.00	-8.79	3	Horizontal	305	2.25
BT-LE(500kbps)	Pass	AV	2.5G	45.45	54.00	-8.55	3	Vertical	300	1.49
BT-LE(2Mbps)	Pass	AV	2.4866G	45.93	54.00	-8.07	3	Horizontal	297	1.49

Result

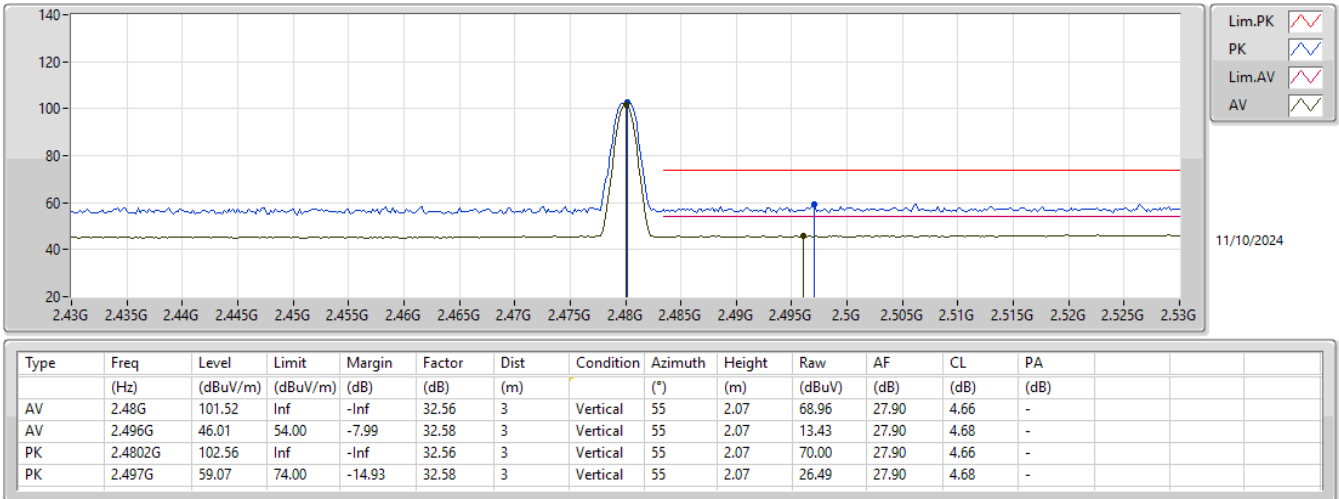
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3616G	45.24	54.00	-8.76	3	Vertical	279	1.50
2402MHz_TX	Pass	AV	2.402G	98.83	Inf	-Inf	3	Vertical	279	1.50
2402MHz_TX	Pass	PK	2.3586G	57.91	74.00	-16.09	3	Vertical	279	1.50
2402MHz_TX	Pass	PK	2.4022G	99.97	Inf	-Inf	3	Vertical	279	1.50
2402MHz_TX	Pass	AV	2.3622G	45.26	54.00	-8.74	3	Horizontal	311	2.86
2402MHz_TX	Pass	AV	2.402G	108.64	Inf	-Inf	3	Horizontal	311	2.86
2402MHz_TX	Pass	PK	2.363G	57.78	74.00	-16.22	3	Horizontal	311	2.86
2402MHz_TX	Pass	PK	2.4018G	109.67	Inf	-Inf	3	Horizontal	311	2.86
2402MHz_TX	Pass	AV	4.80458G	29.84	54.00	-24.16	3	Vertical	39	1.06
2402MHz_TX	Pass	PK	4.80338G	43.03	74.00	-30.97	3	Vertical	39	1.06
2402MHz_TX	Pass	AV	4.80351G	29.91	54.00	-24.09	3	Horizontal	259	1.99
2402MHz_TX	Pass	PK	4.8033G	43.20	74.00	-30.80	3	Horizontal	259	1.99
2440MHz_TX	Pass	AV	2.3888G	45.11	54.00	-8.89	3	Vertical	304	2.12
2440MHz_TX	Pass	AV	2.44G	100.46	Inf	-Inf	3	Vertical	304	2.12
2440MHz_TX	Pass	AV	2.4848G	45.75	54.00	-8.25	3	Vertical	304	2.12
2440MHz_TX	Pass	PK	2.3856G	58.55	74.00	-15.45	3	Vertical	304	2.12
2440MHz_TX	Pass	PK	2.44G	101.52	Inf	-Inf	3	Vertical	304	2.12
2440MHz_TX	Pass	PK	2.4924G	59.47	74.00	-14.53	3	Vertical	304	2.12
2440MHz_TX	Pass	AV	2.352G	45.21	54.00	-8.79	3	Horizontal	307	2.24
2440MHz_TX	Pass	AV	2.44G	109.53	Inf	-Inf	3	Horizontal	307	2.24
2440MHz_TX	Pass	AV	2.4956G	45.90	54.00	-8.10	3	Horizontal	307	2.24
2440MHz_TX	Pass	PK	2.3432G	58.25	74.00	-15.75	3	Horizontal	307	2.24
2440MHz_TX	Pass	PK	2.44G	110.71	Inf	-Inf	3	Horizontal	307	2.24
2440MHz_TX	Pass	PK	2.4972G	58.04	74.00	-15.96	3	Horizontal	307	2.24
2440MHz_TX	Pass	AV	4.88064G	30.14	54.00	-23.86	3	Vertical	52	2.74
2440MHz_TX	Pass	PK	4.87972G	43.03	74.00	-30.97	3	Vertical	52	2.74
2440MHz_TX	Pass	AV	4.88035G	30.28	54.00	-23.72	3	Horizontal	286	2.73
2440MHz_TX	Pass	PK	4.88041G	43.00	74.00	-31.00	3	Horizontal	286	2.73
2480MHz_TX	Pass	AV	2.48G	101.52	Inf	-Inf	3	Vertical	55	2.07
2480MHz_TX	Pass	AV	2.496G	46.01	54.00	-7.99	3	Vertical	55	2.07
2480MHz_TX	Pass	PK	2.4802G	102.56	Inf	-Inf	3	Vertical	55	2.07
2480MHz_TX	Pass	PK	2.497G	59.07	74.00	-14.93	3	Vertical	55	2.07
2480MHz_TX	Pass	AV	2.48G	106.98	Inf	-Inf	3	Horizontal	298	1.50
2480MHz_TX	Pass	AV	2.4968G	45.93	54.00	-8.07	3	Horizontal	298	1.50
2480MHz_TX	Pass	PK	2.4802G	107.99	Inf	-Inf	3	Horizontal	298	1.50
2480MHz_TX	Pass	PK	2.494G	58.47	74.00	-15.53	3	Horizontal	298	1.50
2480MHz_TX	Pass	AV	4.96093G	30.53	54.00	-23.47	3	Vertical	163	2.76
2480MHz_TX	Pass	PK	4.96029G	43.54	74.00	-30.46	3	Vertical	163	2.76
2480MHz_TX	Pass	AV	4.95972G	30.61	54.00	-23.39	3	Horizontal	181	1.87
2480MHz_TX	Pass	PK	4.95966G	43.54	74.00	-30.46	3	Horizontal	181	1.87
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3562G	45.09	54.00	-8.91	3	Vertical	281	1.79
2402MHz_TX	Pass	AV	2.402G	100.02	Inf	-Inf	3	Vertical	281	1.79
2402MHz_TX	Pass	PK	2.3646G	57.63	74.00	-16.37	3	Vertical	281	1.79
2402MHz_TX	Pass	PK	2.4026G	100.93	Inf	-Inf	3	Vertical	281	1.79
2402MHz_TX	Pass	AV	2.358G	45.16	54.00	-8.84	3	Horizontal	309	2.88
2402MHz_TX	Pass	AV	2.402G	109.26	Inf	-Inf	3	Horizontal	309	2.88
2402MHz_TX	Pass	PK	2.3624G	59.02	74.00	-14.98	3	Horizontal	309	2.88
2402MHz_TX	Pass	PK	2.4026G	110.20	Inf	-Inf	3	Horizontal	309	2.88
2402MHz_TX	Pass	AV	4.80381G	29.82	54.00	-24.18	3	Vertical	207	1.21
2402MHz_TX	Pass	PK	4.80328G	42.99	74.00	-31.01	3	Vertical	207	1.21
2402MHz_TX	Pass	AV	4.80426G	29.91	54.00	-24.09	3	Horizontal	91	2.87
2402MHz_TX	Pass	PK	4.80487G	42.57	74.00	-31.43	3	Horizontal	91	2.87
2440MHz_TX	Pass	AV	2.3796G	45.22	54.00	-8.78	3	Vertical	316	2.16
2440MHz_TX	Pass	AV	2.44G	101.11	Inf	-Inf	3	Vertical	316	2.16
2440MHz_TX	Pass	AV	2.4856G	45.80	54.00	-8.20	3	Vertical	316	2.16
2440MHz_TX	Pass	PK	2.3592G	57.54	74.00	-16.46	3	Vertical	316	2.16
2440MHz_TX	Pass	PK	2.4396G	101.93	Inf	-Inf	3	Vertical	316	2.16
2440MHz_TX	Pass	PK	2.4944G	58.62	74.00	-15.38	3	Vertical	316	2.16
2440MHz_TX	Pass	AV	2.3584G	45.11	54.00	-8.89	3	Horizontal	305	2.24

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2440MHz_TX	Pass	AV	2.44G	109.54	Inf	-Inf	3	Horizontal	305	2.24
2440MHz_TX	Pass	AV	2.498G	45.87	54.00	-8.13	3	Horizontal	305	2.24
2440MHz_TX	Pass	PK	2.3668G	57.82	74.00	-16.18	3	Horizontal	305	2.24
2440MHz_TX	Pass	PK	2.4404G	110.32	Inf	-Inf	3	Horizontal	305	2.24
2440MHz_TX	Pass	PK	2.4988G	58.21	74.00	-15.79	3	Horizontal	305	2.24
2440MHz_TX	Pass	AV	4.88G	30.20	54.00	-23.80	3	Vertical	135	2.36
2440MHz_TX	Pass	PK	4.88027G	43.10	74.00	-30.90	3	Vertical	135	2.36
2440MHz_TX	Pass	AV	4.88009G	30.21	54.00	-23.79	3	Horizontal	255	2.69
2440MHz_TX	Pass	PK	4.88032G	44.40	74.00	-29.60	3	Horizontal	255	2.69
2480MHz_TX	Pass	AV	2.48G	100.29	Inf	-Inf	3	Vertical	52	1.50
2480MHz_TX	Pass	AV	2.4946G	45.90	54.00	-8.10	3	Vertical	52	1.50
2480MHz_TX	Pass	PK	2.4804G	101.14	Inf	-Inf	3	Vertical	52	1.50
2480MHz_TX	Pass	PK	2.499G	58.52	74.00	-15.48	3	Vertical	52	1.50
2480MHz_TX	Pass	AV	2.48G	107.27	Inf	-Inf	3	Horizontal	297	1.49
2480MHz_TX	Pass	AV	2.4866G	45.93	54.00	-8.07	3	Horizontal	297	1.49
2480MHz_TX	Pass	PK	2.4806G	108.11	Inf	-Inf	3	Horizontal	297	1.49
2480MHz_TX	Pass	PK	2.4928G	58.45	74.00	-15.55	3	Horizontal	297	1.49
2480MHz_TX	Pass	AV	4.95974G	30.61	54.00	-23.39	3	Vertical	253	2.79
2480MHz_TX	Pass	PK	4.96004G	43.03	74.00	-30.97	3	Vertical	253	2.79
2480MHz_TX	Pass	AV	4.95998G	30.96	54.00	-23.04	3	Horizontal	68	1.24
2480MHz_TX	Pass	PK	4.96011G	43.53	74.00	-30.47	3	Horizontal	68	1.24
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3886G	44.46	54.00	-9.54	3	Vertical	277	1.50
2402MHz_TX	Pass	AV	2.402G	98.41	Inf	-Inf	3	Vertical	277	1.50
2402MHz_TX	Pass	PK	2.3828G	58.25	74.00	-15.75	3	Vertical	277	1.50
2402MHz_TX	Pass	PK	2.4018G	99.63	Inf	-Inf	3	Vertical	277	1.50
2402MHz_TX	Pass	AV	2.385G	44.47	54.00	-9.53	3	Horizontal	308	2.87
2402MHz_TX	Pass	AV	2.402G	108.74	Inf	-Inf	3	Horizontal	308	2.87
2402MHz_TX	Pass	PK	2.3586G	57.99	74.00	-16.01	3	Horizontal	308	2.87
2402MHz_TX	Pass	PK	2.4018G	109.93	Inf	-Inf	3	Horizontal	308	2.87
2402MHz_TX	Pass	AV	4.80401G	29.14	54.00	-24.86	3	Vertical	149	2.48
2402MHz_TX	Pass	PK	4.80497G	42.66	74.00	-31.34	3	Vertical	149	2.48
2402MHz_TX	Pass	AV	4.80391G	29.11	54.00	-24.89	3	Horizontal	17	2.48
2402MHz_TX	Pass	PK	4.80424G	43.25	74.00	-30.75	3	Horizontal	17	2.48
2440MHz_TX	Pass	AV	2.3528G	44.50	54.00	-9.50	3	Vertical	316	1.91
2440MHz_TX	Pass	AV	2.44G	100.43	Inf	-Inf	3	Vertical	316	1.91
2440MHz_TX	Pass	AV	2.4956G	45.11	54.00	-8.89	3	Vertical	316	1.91
2440MHz_TX	Pass	PK	2.3704G	59.08	74.00	-14.92	3	Vertical	316	1.91
2440MHz_TX	Pass	PK	2.4396G	101.93	Inf	-Inf	3	Vertical	316	1.91
2440MHz_TX	Pass	PK	2.4964G	57.73	74.00	-16.27	3	Vertical	316	1.91
2440MHz_TX	Pass	AV	2.386G	44.46	54.00	-9.54	3	Horizontal	305	2.25
2440MHz_TX	Pass	AV	2.44G	108.88	Inf	-Inf	3	Horizontal	305	2.25
2440MHz_TX	Pass	AV	2.4988G	45.21	54.00	-8.79	3	Horizontal	305	2.25
2440MHz_TX	Pass	PK	2.3504G	58.14	74.00	-15.86	3	Horizontal	305	2.25
2440MHz_TX	Pass	PK	2.4396G	110.28	Inf	-Inf	3	Horizontal	305	2.25
2440MHz_TX	Pass	PK	2.4944G	58.71	74.00	-15.29	3	Horizontal	305	2.25
2440MHz_TX	Pass	AV	4.88012G	29.43	54.00	-24.57	3	Vertical	284	2.38
2440MHz_TX	Pass	PK	4.88074G	43.20	74.00	-30.80	3	Vertical	284	2.38
2440MHz_TX	Pass	AV	4.88037G	29.42	54.00	-24.58	3	Horizontal	212	1.38
2440MHz_TX	Pass	PK	4.87958G	43.54	74.00	-30.46	3	Horizontal	212	1.38
2480MHz_TX	Pass	AV	2.48G	99.92	Inf	-Inf	3	Vertical	53	1.50
2480MHz_TX	Pass	AV	2.4956G	45.14	54.00	-8.86	3	Vertical	53	1.50
2480MHz_TX	Pass	PK	2.4802G	101.13	Inf	-Inf	3	Vertical	53	1.50
2480MHz_TX	Pass	PK	2.4932G	58.43	74.00	-15.57	3	Vertical	53	1.50
2480MHz_TX	Pass	AV	2.48G	106.85	Inf	-Inf	3	Horizontal	299	1.49
2480MHz_TX	Pass	AV	2.484G	45.21	54.00	-8.79	3	Horizontal	299	1.49
2480MHz_TX	Pass	PK	2.4798G	108.04	Inf	-Inf	3	Horizontal	299	1.49
2480MHz_TX	Pass	PK	2.4896G	58.43	74.00	-15.57	3	Horizontal	299	1.49
2480MHz_TX	Pass	AV	4.95946G	29.79	54.00	-24.21	3	Vertical	161	2.22
2480MHz_TX	Pass	PK	4.95918G	44.37	74.00	-29.63	3	Vertical	161	2.22
2480MHz_TX	Pass	AV	4.95985G	29.90	54.00	-24.10	3	Horizontal	321	2.19
2480MHz_TX	Pass	PK	4.95976G	43.63	74.00	-30.37	3	Horizontal	321	2.19

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3658G	44.68	54.00	-9.32	3	Vertical	272	1.56
2402MHz_TX	Pass	AV	2.402G	99.19	Inf	-Inf	3	Vertical	272	1.56
2402MHz_TX	Pass	PK	2.38G	57.72	74.00	-16.28	3	Vertical	272	1.56
2402MHz_TX	Pass	PK	2.4018G	100.35	Inf	-Inf	3	Vertical	272	1.56
2402MHz_TX	Pass	AV	2.3888G	44.72	54.00	-9.28	3	Horizontal	308	2.88
2402MHz_TX	Pass	AV	2.402G	109.04	Inf	-Inf	3	Horizontal	308	2.88
2402MHz_TX	Pass	PK	2.3556G	57.56	74.00	-16.44	3	Horizontal	308	2.88
2402MHz_TX	Pass	PK	2.4018G	110.08	Inf	-Inf	3	Horizontal	308	2.88
2402MHz_TX	Pass	AV	4.80405G	29.32	54.00	-24.68	3	Vertical	32	2.45
2402MHz_TX	Pass	PK	4.80446G	43.52	74.00	-30.48	3	Vertical	32	2.45
2402MHz_TX	Pass	AV	4.80386G	29.32	54.00	-24.68	3	Horizontal	125	1.79
2402MHz_TX	Pass	PK	4.80446G	42.30	74.00	-31.70	3	Horizontal	125	1.79
2440MHz_TX	Pass	AV	2.3516G	44.65	54.00	-9.35	3	Vertical	300	1.49
2440MHz_TX	Pass	AV	2.44G	98.90	Inf	-Inf	3	Vertical	300	1.49
2440MHz_TX	Pass	AV	2.5G	45.45	54.00	-8.55	3	Vertical	300	1.49
2440MHz_TX	Pass	PK	2.3604G	58.23	74.00	-15.77	3	Vertical	300	1.49
2440MHz_TX	Pass	PK	2.4404G	100.00	Inf	-Inf	3	Vertical	300	1.49
2440MHz_TX	Pass	PK	2.498G	58.11	74.00	-15.89	3	Vertical	300	1.49
2440MHz_TX	Pass	AV	2.354G	44.68	54.00	-9.32	3	Horizontal	306	2.26
2440MHz_TX	Pass	AV	2.44G	109.39	Inf	-Inf	3	Horizontal	306	2.26
2440MHz_TX	Pass	AV	2.4852G	45.38	54.00	-8.62	3	Horizontal	306	2.26
2440MHz_TX	Pass	PK	2.3608G	58.42	74.00	-15.58	3	Horizontal	306	2.26
2440MHz_TX	Pass	PK	2.4396G	110.59	Inf	-Inf	3	Horizontal	306	2.26
2440MHz_TX	Pass	PK	2.4948G	58.77	74.00	-15.23	3	Horizontal	306	2.26
2440MHz_TX	Pass	AV	4.88048G	29.61	54.00	-24.39	3	Vertical	105	2.47
2440MHz_TX	Pass	PK	4.88064G	42.78	74.00	-31.22	3	Vertical	105	2.47
2440MHz_TX	Pass	AV	4.87972G	29.72	54.00	-24.28	3	Horizontal	163	2.66
2440MHz_TX	Pass	PK	4.88039G	43.88	74.00	-30.12	3	Horizontal	163	2.66
2480MHz_TX	Pass	AV	2.48G	100.24	Inf	-Inf	3	Vertical	51	1.50
2480MHz_TX	Pass	AV	2.4918G	45.38	54.00	-8.62	3	Vertical	51	1.50
2480MHz_TX	Pass	PK	2.4802G	101.30	Inf	-Inf	3	Vertical	51	1.50
2480MHz_TX	Pass	PK	2.4864G	58.98	74.00	-15.02	3	Vertical	51	1.50
2480MHz_TX	Pass	AV	2.48G	107.14	Inf	-Inf	3	Horizontal	298	1.49
2480MHz_TX	Pass	AV	2.4948G	45.42	54.00	-8.58	3	Horizontal	298	1.49
2480MHz_TX	Pass	PK	2.4802G	108.31	Inf	-Inf	3	Horizontal	298	1.49
2480MHz_TX	Pass	PK	2.498G	58.95	74.00	-15.05	3	Horizontal	298	1.49
2480MHz_TX	Pass	AV	4.96019G	29.95	54.00	-24.05	3	Vertical	187	1.98
2480MHz_TX	Pass	PK	4.95951G	43.49	74.00	-30.51	3	Vertical	187	1.98
2480MHz_TX	Pass	AV	4.96039G	30.06	54.00	-23.94	3	Horizontal	66	1.43
2480MHz_TX	Pass	PK	4.96008G	44.00	74.00	-30.00	3	Horizontal	66	1.43

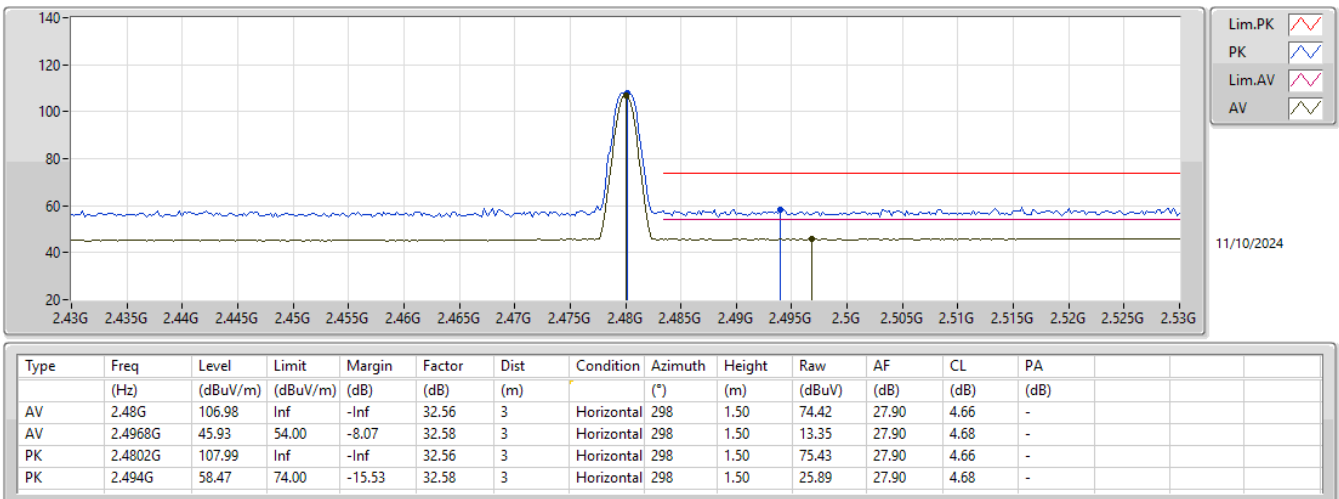
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2480MHz_TX



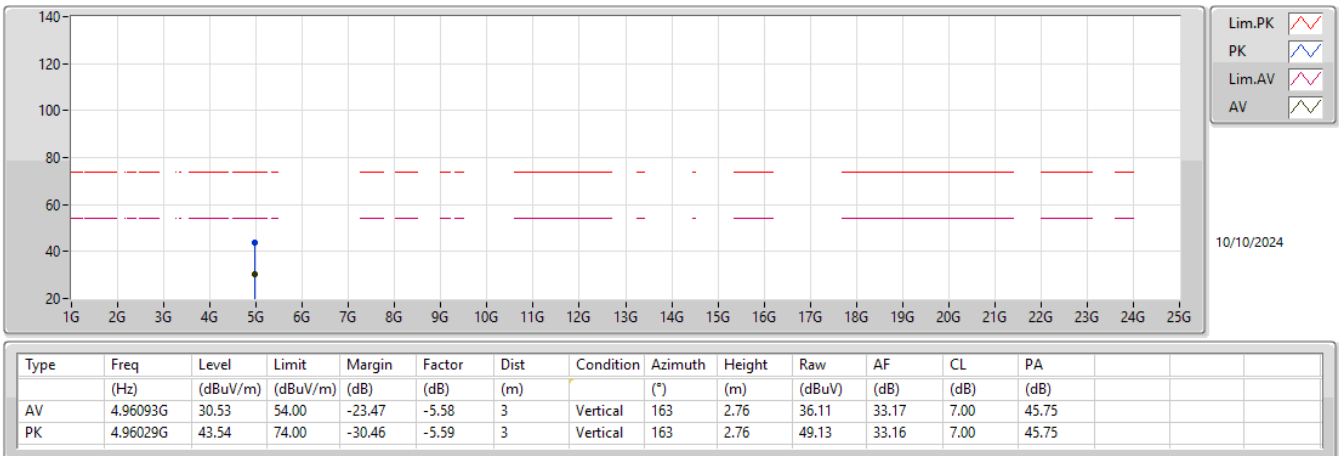
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



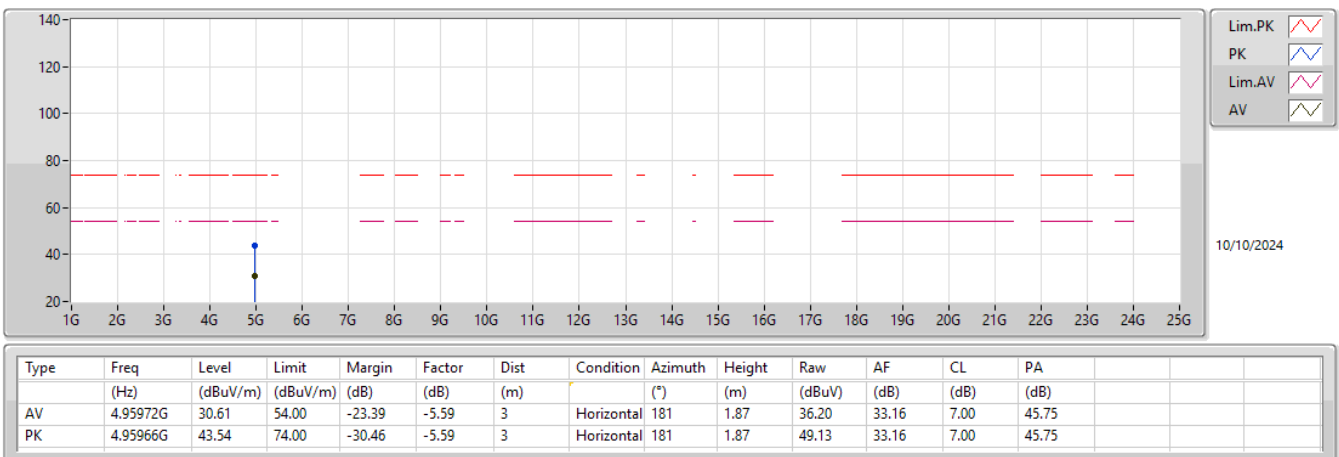
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



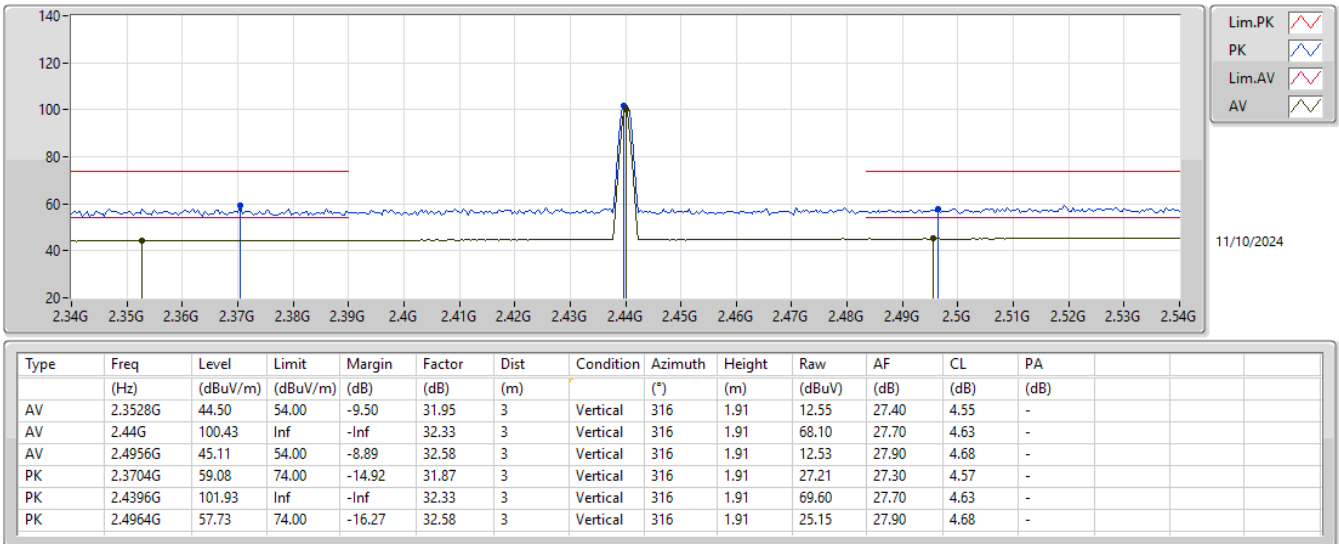
2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX



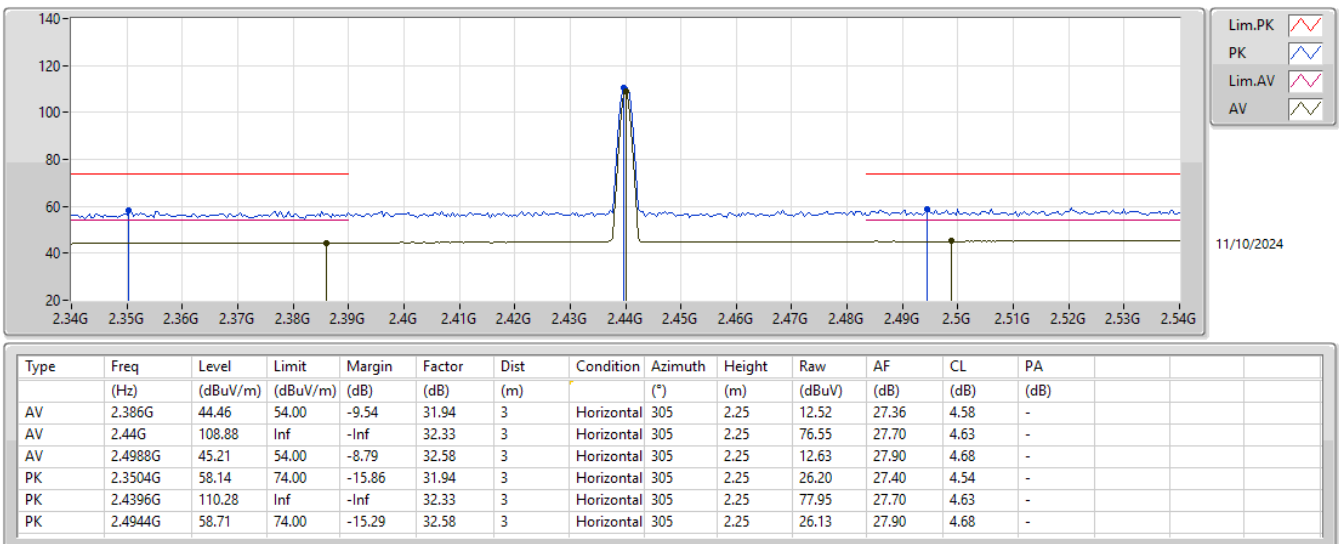
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2440MHz_TX



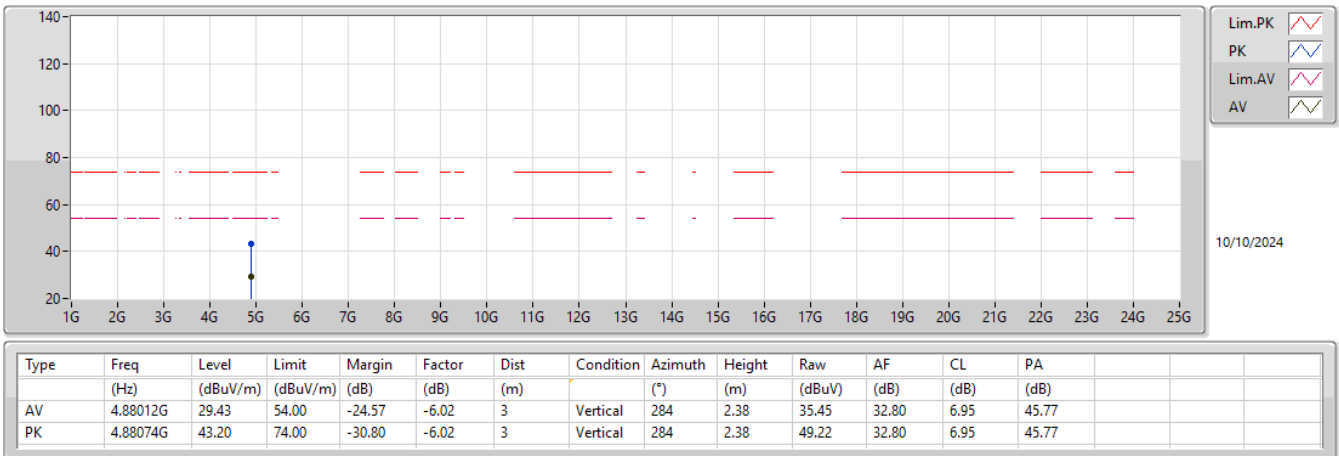
2.4-2.4835GHz_BT-LE(125kbps)

2440MHz_TX



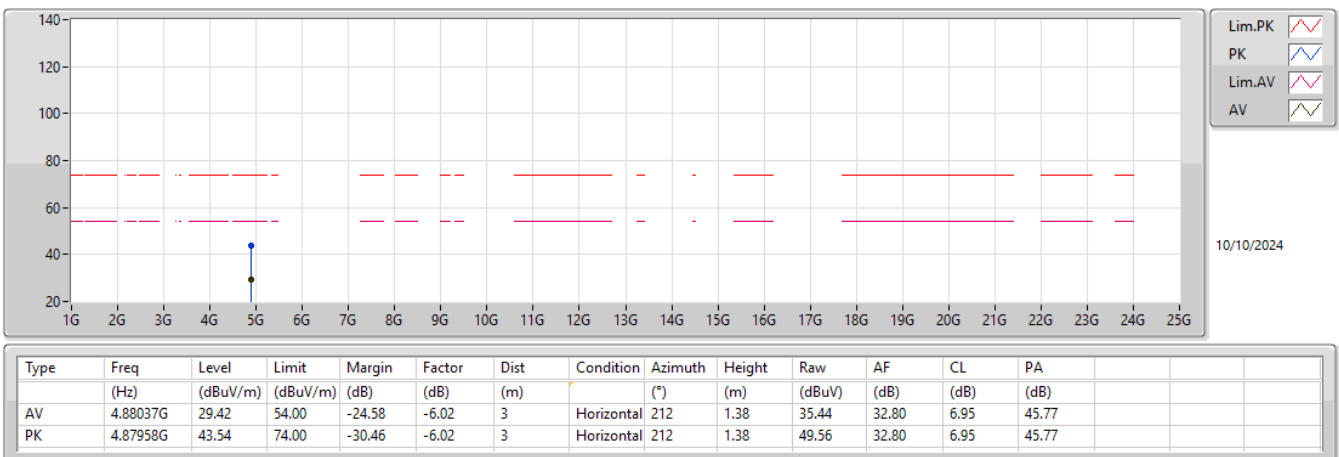
2.4-2.4835GHz_BT-LE(125kbps)

2440MHz_TX



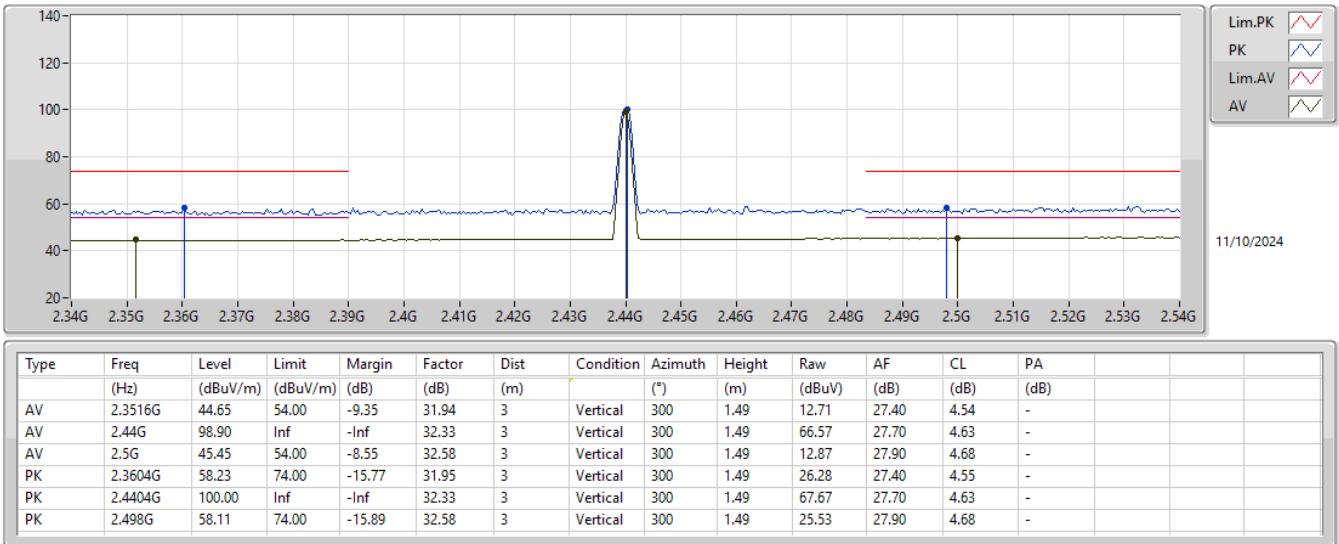
2.4-2.4835GHz_BT-LE(125kbps)

2440MHz_TX



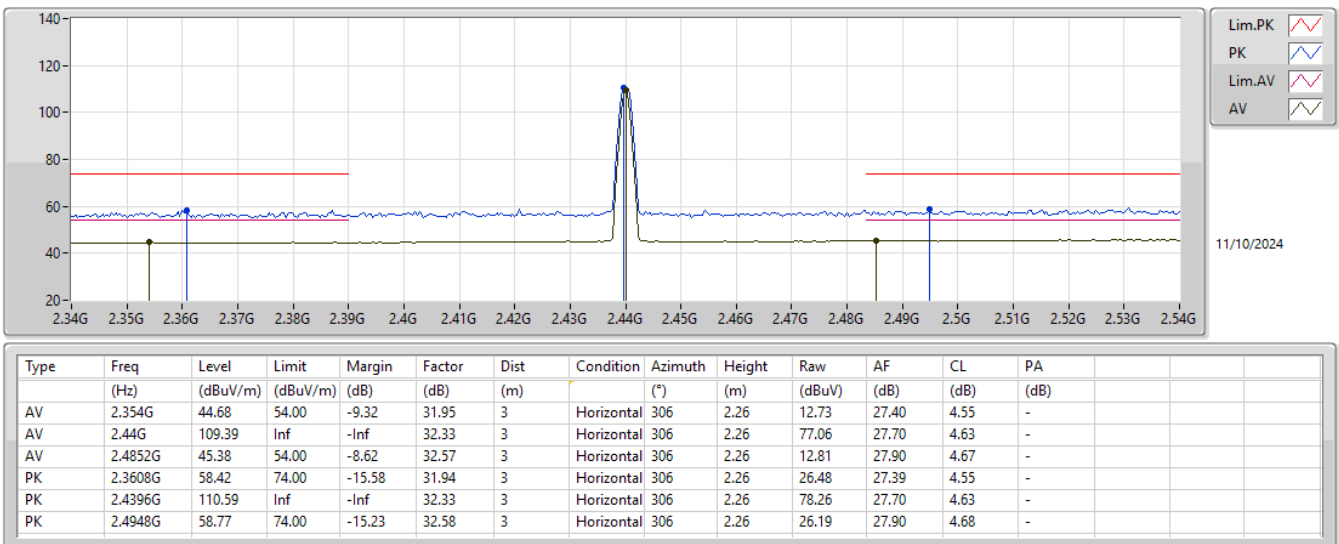
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



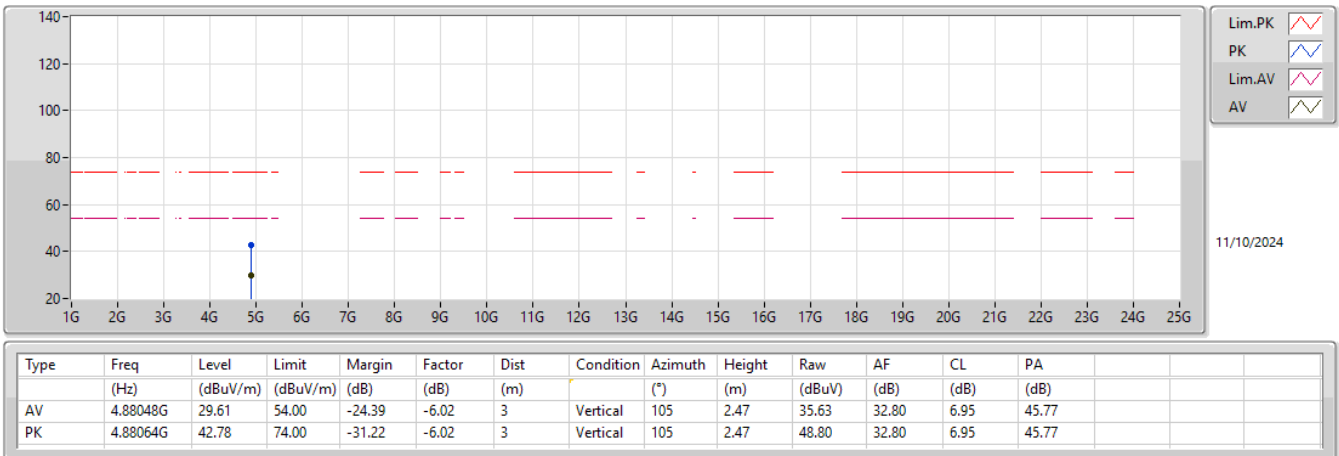
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2440MHz_TX



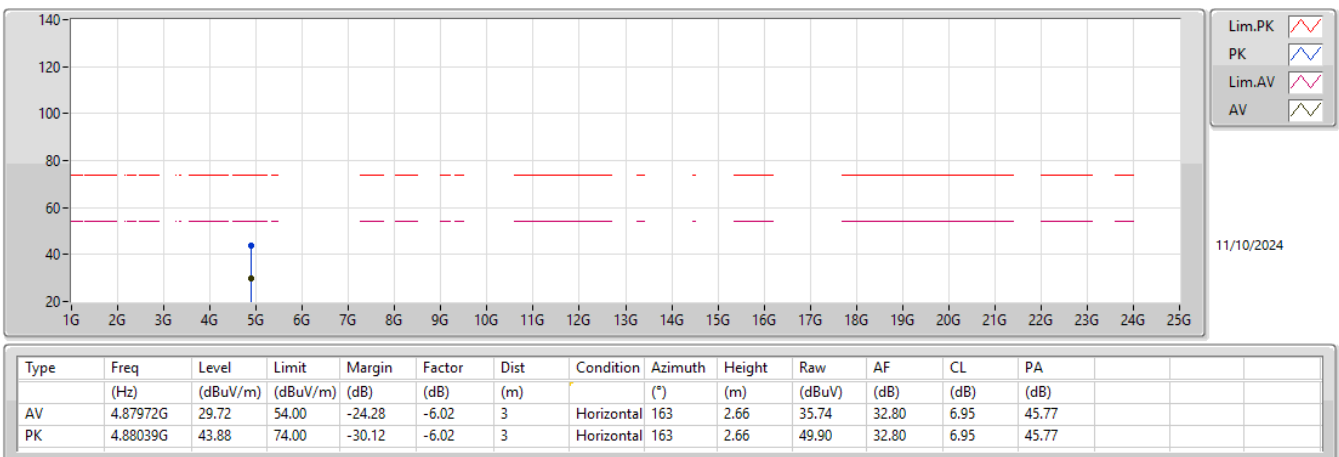
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2440MHz_TX



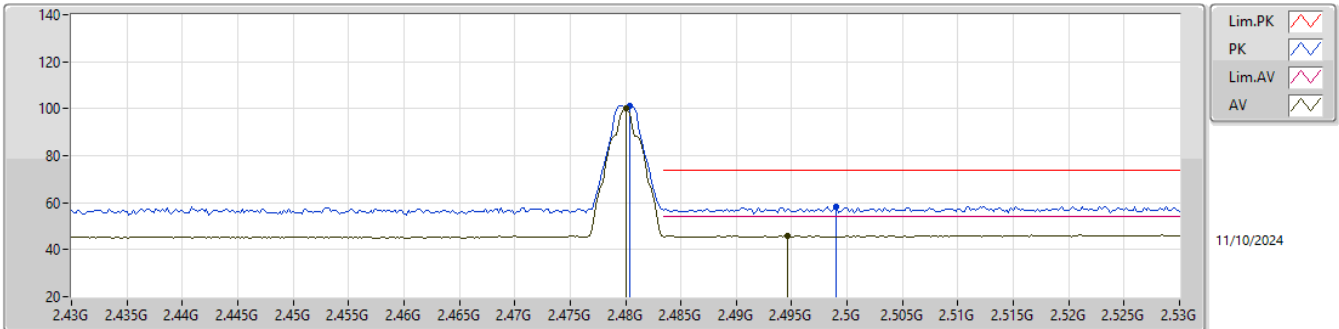
2.4-2.4835GHz_BT-LE(500kbps)

2440MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

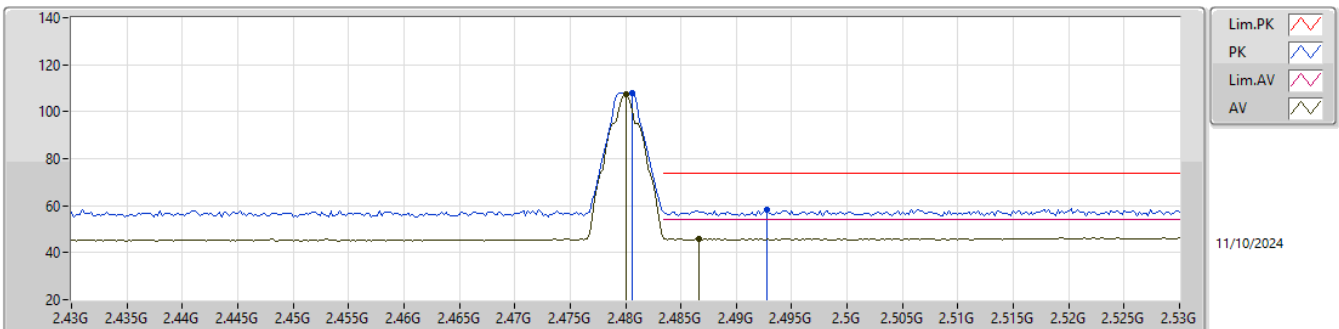
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	100.29	Inf	-Inf	32.56	3	Vertical	52	1.50	67.73	27.90	4.66	-
AV	2.4946G	45.90	54.00	-8.10	32.58	3	Vertical	52	1.50	13.32	27.90	4.68	-
PK	2.4804G	101.14	Inf	-Inf	32.56	3	Vertical	52	1.50	68.58	27.90	4.66	-
PK	2.499G	58.52	74.00	-15.48	32.58	3	Vertical	52	1.50	25.94	27.90	4.68	-

2.4-2.4835GHz_BT-LE(2Mbps)

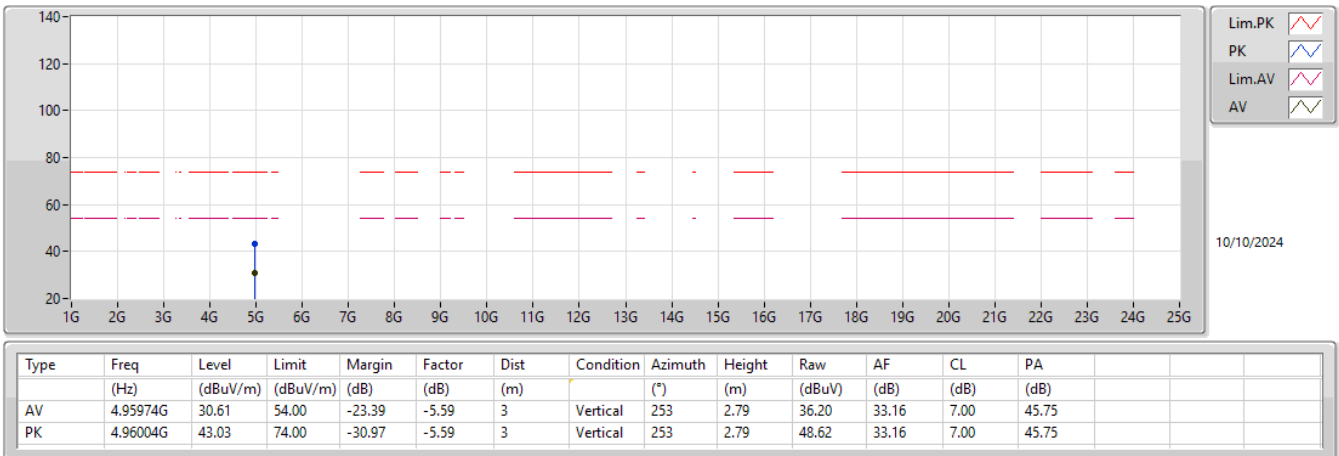
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	107.27	Inf	-Inf	32.56	3	Horizontal	297	1.49	74.71	27.90	4.66	-
AV	2.4866G	45.93	54.00	-8.07	32.57	3	Horizontal	297	1.49	13.36	27.90	4.67	-
PK	2.4806G	108.11	Inf	-Inf	32.56	3	Horizontal	297	1.49	75.55	27.90	4.66	-
PK	2.4928G	58.45	74.00	-15.55	32.57	3	Horizontal	297	1.49	25.88	27.90	4.67	-

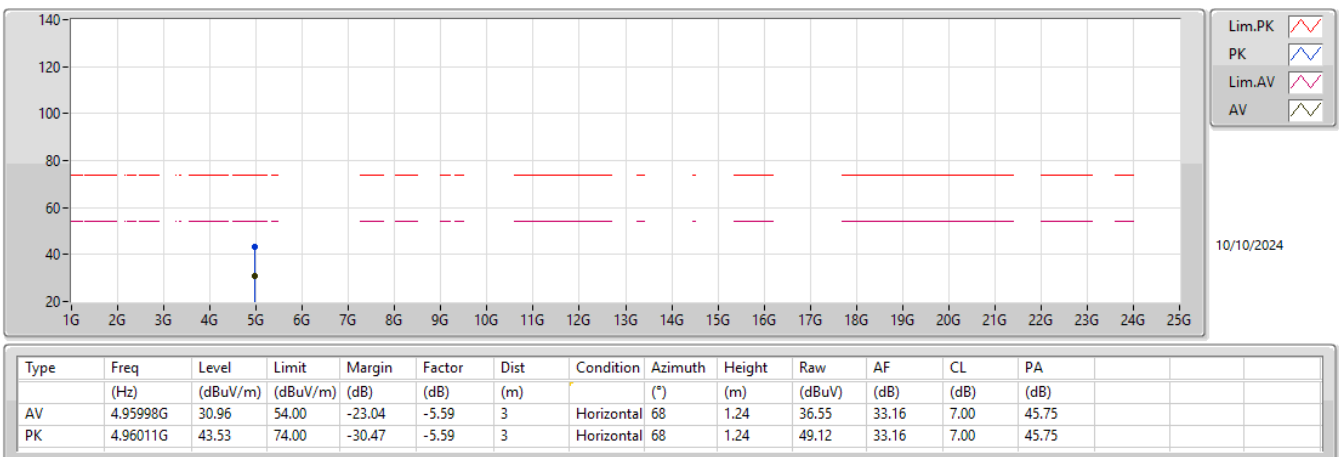
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



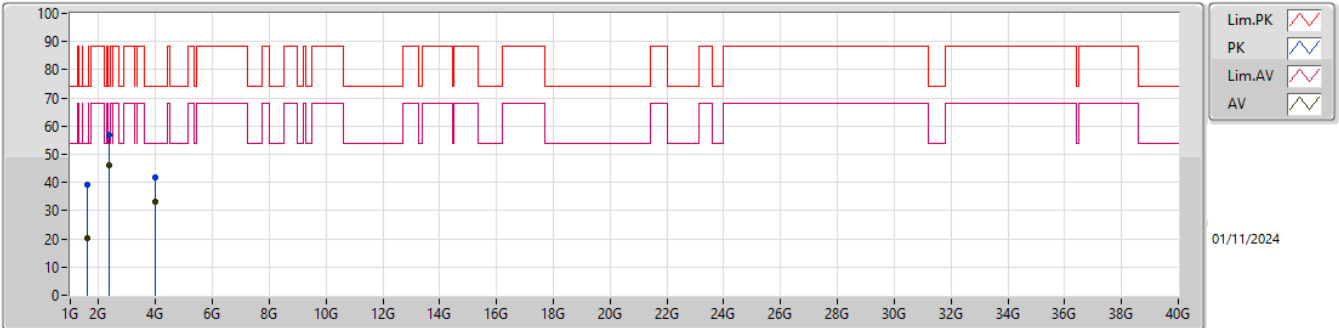
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	2.36493G	46.22	54.00	-7.78	Vertical
Mode 2	Pass	AV	2.36578G	49.20	54.00	-4.80	Vertical
Mode 3	Pass	AV	2.36473G	48.12	54.00	-5.88	Vertical
Mode 4	Pass	AV	2.3659G	48.24	54.00	-5.76	Vertical

Result

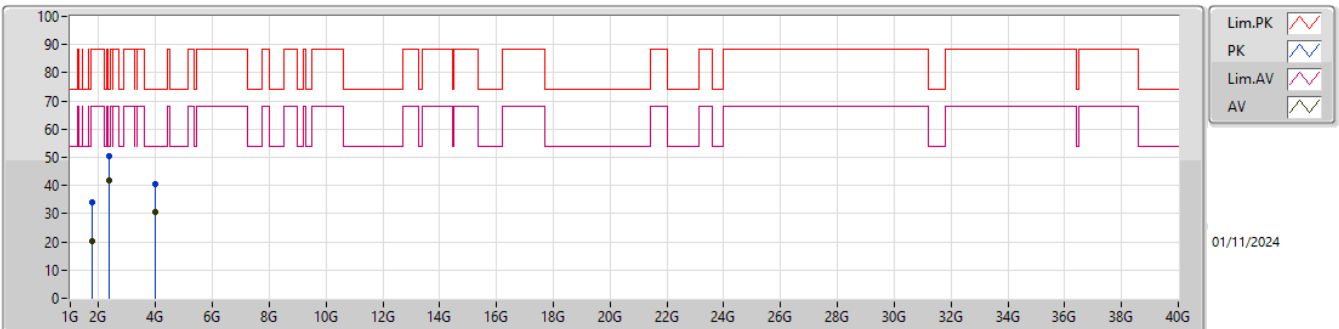
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	1.59392G	20.47	54.00	-33.53	3	Vertical	14	2.47	-
Mode 1	Pass	AV	2.36493G	46.22	54.00	-7.78	3	Vertical	128	1.55	-
Mode 1	Pass	AV	4.00327G	33.25	54.00	-20.75	3	Vertical	329	1.56	-
Mode 1	Pass	PK	1.59351G	39.02	74.00	-34.98	3	Vertical	14	2.47	-
Mode 1	Pass	PK	2.36371G	56.69	74.00	-17.31	3	Vertical	128	1.55	-
Mode 1	Pass	PK	4.00327G	41.76	74.00	-32.24	3	Vertical	329	1.56	-
Mode 1	Pass	AV	1.79004G	20.33	68.20	-47.87	3	Horizontal	84	1.26	-
Mode 1	Pass	AV	2.36568G	41.75	54.00	-12.25	3	Horizontal	123	1.39	-
Mode 1	Pass	AV	4.00324G	30.61	54.00	-23.39	3	Horizontal	244	1.61	-
Mode 1	Pass	PK	1.78804G	34.18	88.20	-54.02	3	Horizontal	84	1.26	-
Mode 1	Pass	PK	2.36422G	50.53	74.00	-23.47	3	Horizontal	123	1.39	-
Mode 1	Pass	PK	4.00337G	40.31	74.00	-33.69	3	Horizontal	244	1.61	-
Mode 2	Pass	AV	1.71096G	25.65	68.20	-42.55	3	Vertical	192	1.62	-
Mode 2	Pass	AV	2.36578G	49.20	54.00	-4.80	3	Vertical	316	2.28	-
Mode 2	Pass	AV	4.00336G	33.66	54.00	-20.34	3	Vertical	309	1.89	-
Mode 2	Pass	PK	1.71051G	36.66	88.20	-51.54	3	Vertical	235	1.56	-
Mode 2	Pass	PK	2.35901G	57.35	74.00	-16.65	3	Vertical	316	2.28	-
Mode 2	Pass	PK	4.00309G	42.09	74.00	-31.91	3	Vertical	198	1.63	-
Mode 2	Pass	AV	1.71873G	20.43	68.20	-47.77	3	Horizontal	170	1.89	-
Mode 2	Pass	AV	2.36716G	42.48	54.00	-11.52	3	Horizontal	7	1.64	-
Mode 2	Pass	AV	5.08996G	29.87	54.00	-24.13	3	Horizontal	300	1.57	-
Mode 2	Pass	PK	1.70871G	33.61	74.00	-40.39	3	Horizontal	170	1.89	-
Mode 2	Pass	PK	2.36986G	52.15	74.00	-21.85	3	Horizontal	7	1.64	-
Mode 2	Pass	PK	5.09497G	52.63	74.00	-21.37	3	Horizontal	300	1.57	-
Mode 3	Pass	AV	1.78833G	21.36	68.20	-46.84	3	Vertical	19	2.32	-
Mode 3	Pass	AV	2.36473G	48.12	54.00	-5.88	3	Vertical	270	2.22	-
Mode 3	Pass	AV	4.00337G	33.75	54.00	-20.25	3	Vertical	306	1.14	-
Mode 3	Pass	PK	1.78323G	40.57	88.20	-47.63	3	Vertical	19	2.32	-
Mode 3	Pass	PK	2.36459G	55.67	74.00	-18.33	3	Vertical	270	2.22	-
Mode 3	Pass	PK	4.00309G	41.27	74.00	-32.73	3	Vertical	306	1.14	-
Mode 3	Pass	AV	1.7879G	21.04	68.20	-47.16	3	Horizontal	350	1.66	-
Mode 3	Pass	AV	2.36498G	44.05	54.00	-9.95	3	Horizontal	211	2.29	-
Mode 3	Pass	AV	3.23599G	24.41	68.20	-43.79	3	Horizontal	35	2.25	-
Mode 3	Pass	PK	1.78617G	39.88	88.20	-48.32	3	Horizontal	350	1.66	-
Mode 3	Pass	PK	2.36475G	50.95	74.00	-23.05	3	Horizontal	211	2.29	-
Mode 3	Pass	PK	3.2444G	37.92	88.20	-50.28	3	Horizontal	35	2.25	-
Mode 4	Pass	AV	1.70568G	20.65	54.00	-33.35	3	Vertical	192	2.29	-
Mode 4	Pass	AV	2.3659G	48.24	54.00	-5.76	3	Vertical	44	2.35	-
Mode 4	Pass	AV	4.00329G	38.33	54.00	-15.67	3	Vertical	245	2.39	-
Mode 4	Pass	PK	1.70592G	33.45	74.00	-40.55	3	Vertical	192	2.29	-
Mode 4	Pass	PK	2.35862G	58.82	74.00	-15.18	3	Vertical	44	2.35	-
Mode 4	Pass	PK	4.00335G	44.60	74.00	-29.40	3	Vertical	245	2.39	-
Mode 4	Pass	AV	2.36493G	42.17	54.00	-11.83	3	Horizontal	132	1.99	-
Mode 4	Pass	AV	3.10757G	25.77	68.20	-42.43	3	Horizontal	97	2.44	-
Mode 4	Pass	AV	4.00331G	30.52	54.00	-23.48	3	Horizontal	52	2.01	-
Mode 4	Pass	PK	2.36098G	52.48	74.00	-21.52	3	Horizontal	132	1.99	-
Mode 4	Pass	PK	3.10828G	39.21	88.20	-48.99	3	Horizontal	97	2.44	-
Mode 4	Pass	PK	4.00365G	40.31	74.00	-33.69	3	Horizontal	52	2.01	-

Radiated Emissions above 1GHz_Mode 1



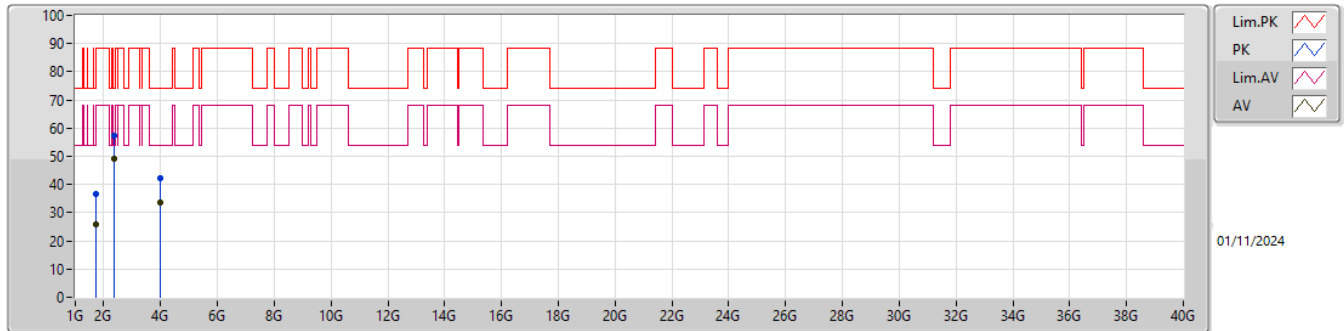
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.59392G	20.47	54.00	-33.53	-9.33	3	Vertical	14	2.47	29.80	25.46	2.21	37.00
AV	2.36493G	46.22	54.00	-7.78	-7.60	3	Vertical	128	1.55	53.82	27.40	2.79	37.79
AV	4.00327G	33.25	54.00	-20.75	-3.08	3	Vertical	329	1.56	36.33	31.01	4.03	38.12
PK	1.59351G	39.02	74.00	-34.98	-9.33	3	Vertical	14	2.47	48.35	25.46	2.21	37.00
PK	2.36371G	56.69	74.00	-17.31	-7.60	3	Vertical	128	1.55	64.29	27.40	2.79	37.79
PK	4.00327G	41.76	74.00	-32.24	-3.08	3	Vertical	329	1.56	44.84	31.01	4.03	38.12

Radiated Emissions above 1GHz_Mode 1



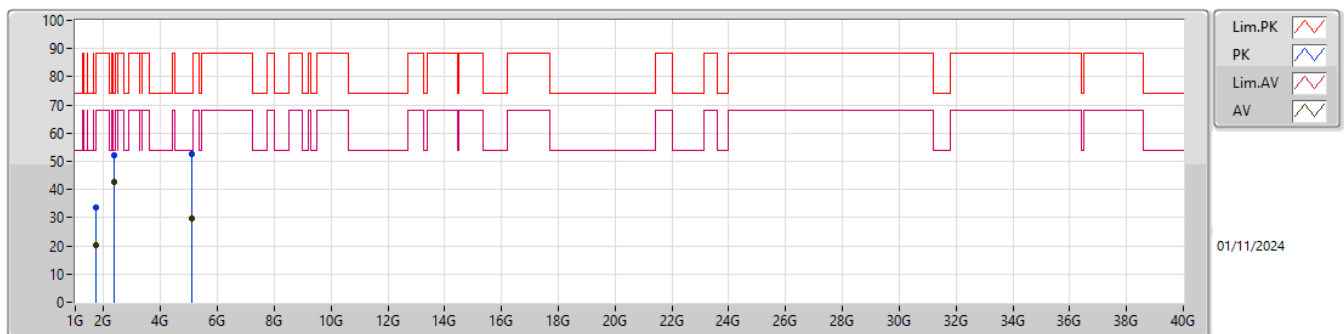
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.79004G	20.33	68.20	-47.87	-9.97	3	Horizontal	84	1.26	30.30	25.10	2.25	37.32
AV	2.36568G	41.75	54.00	-12.25	-7.60	3	Horizontal	123	1.39	49.35	27.40	2.79	37.79
AV	4.00324G	30.61	54.00	-23.39	-3.08	3	Horizontal	244	1.61	33.69	31.01	4.03	38.12
PK	1.78804G	34.18	88.20	-54.02	-9.99	3	Horizontal	84	1.26	44.17	25.08	2.25	37.32
PK	2.36422G	50.53	74.00	-23.47	-7.60	3	Horizontal	123	1.39	58.13	27.40	2.79	37.79
PK	4.00337G	40.31	74.00	-33.69	-3.08	3	Horizontal	244	1.61	43.39	31.01	4.03	38.12

Radiated Emissions above 1GHz_Mode 2



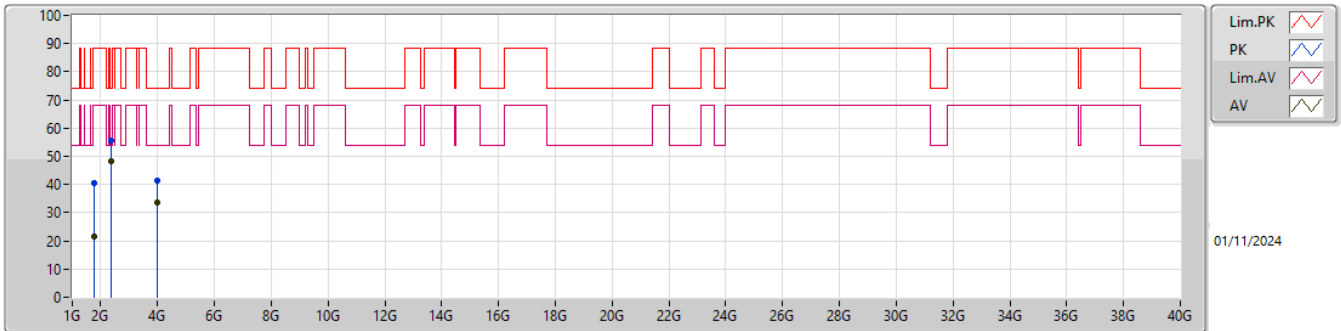
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.71096G	25.65	68.20	-42.55	-9.85	3	Vertical	192	1.62	35.50	25.10	2.24	37.19
AV	2.36578G	49.20	54.00	-4.80	-7.60	3	Vertical	316	2.28	56.80	27.40	2.79	37.79
AV	4.00336G	33.66	54.00	-20.34	-3.08	3	Vertical	309	1.89	36.74	31.01	4.03	38.12
PK	1.71051G	36.66	88.20	-51.54	-9.85	3	Vertical	235	1.56	46.51	25.10	2.24	37.19
PK	2.35901G	57.35	74.00	-16.65	-7.61	3	Vertical	316	2.28	64.96	27.39	2.79	37.79
PK	4.00309G	42.09	74.00	-31.91	-3.08	3	Vertical	198	1.63	45.17	31.01	4.03	38.12

Radiated Emissions above 1GHz_Mode 2



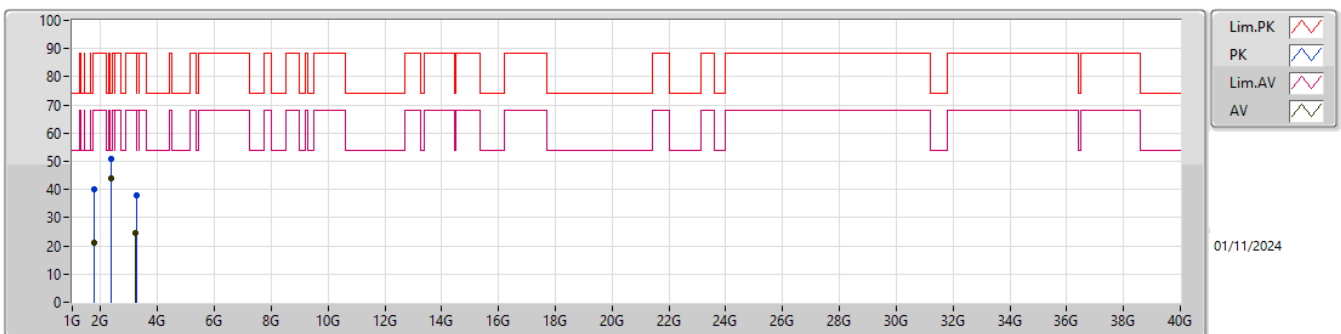
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.71873G	20.43	68.20	-47.77	-9.86	3	Horizontal	170	1.89	30.29	25.10	2.24	37.20
AV	2.36716G	42.48	54.00	-11.52	-7.60	3	Horizontal	7	1.64	50.08	27.40	2.79	37.79
AV	5.08996G	29.87	54.00	-24.13	-0.62	3	Horizontal	300	1.57	30.49	33.22	4.34	38.18
PK	1.70871G	33.61	74.00	-40.39	-9.85	3	Horizontal	170	1.89	43.46	25.10	2.24	37.19
PK	2.36986G	52.15	74.00	-21.85	-7.60	3	Horizontal	7	1.64	59.75	27.40	2.79	37.79
PK	5.09497G	52.63	74.00	-21.37	-0.63	3	Horizontal	300	1.57	53.26	33.21	4.34	38.18

Radiated Emissions above 1GHz_Mode 3



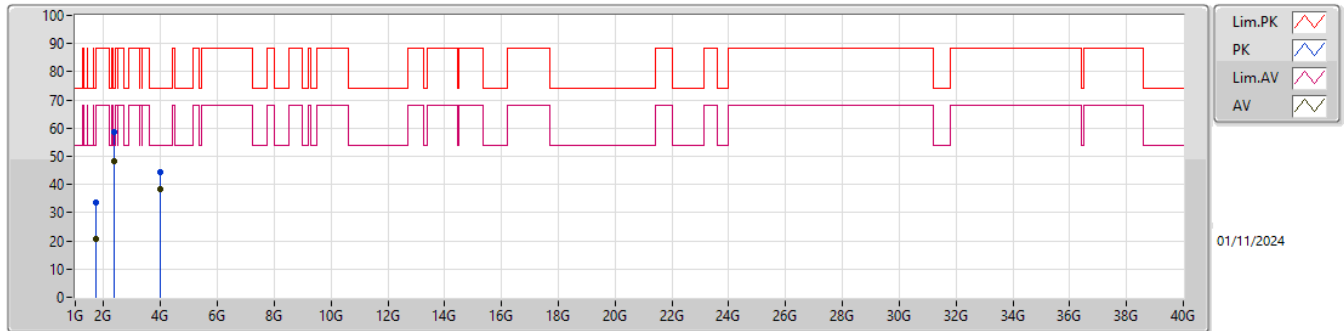
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.78833G	21.36	68.20	-46.84	-9.99	3	Vertical	19	2.32	31.35	25.08	2.25	37.32
AV	2.36473G	48.12	54.00	-5.88	-7.60	3	Vertical	270	2.22	55.72	27.40	2.79	37.79
AV	4.00337G	33.75	54.00	-20.25	-3.08	3	Vertical	306	1.14	36.83	31.01	4.03	38.12
PK	1.78323G	40.57	88.20	-47.63	-10.03	3	Vertical	19	2.32	50.60	25.03	2.25	37.31
PK	2.36459G	55.67	74.00	-18.33	-7.60	3	Vertical	270	2.22	63.27	27.40	2.79	37.79
PK	4.00309G	41.27	74.00	-32.73	-3.08	3	Vertical	306	1.14	44.35	31.01	4.03	38.12

Radiated Emissions above 1GHz_Mode 3



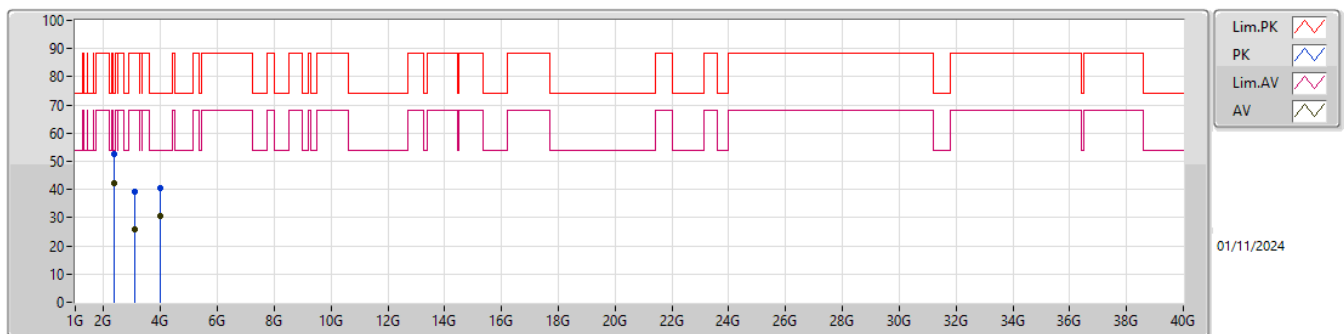
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.7879G	21.04	68.20	-47.16	-9.99	3	Horizontal	350	1.66	31.03	25.08	2.25	37.32
AV	2.36498G	44.05	54.00	-9.95	-7.60	3	Horizontal	211	2.29	51.65	27.40	2.79	37.79
AV	3.23599G	24.41	68.20	-43.79	-4.73	3	Horizontal	35	2.25	29.14	29.90	3.32	37.95
PK	1.78617G	39.88	88.20	-48.32	-10.00	3	Horizontal	350	1.66	49.88	25.06	2.25	37.31
PK	2.36475G	50.95	74.00	-23.05	-7.60	3	Horizontal	211	2.29	58.55	27.40	2.79	37.79
PK	3.2444G	37.92	88.20	-50.28	-4.73	3	Horizontal	35	2.25	42.65	29.90	3.32	37.95

Radiated Emissions above 1GHz_Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)				
AV	1.70568G	20.65	54.00	-33.35	-9.84	3	Vertical	192	2.29	30.49	25.10	2.24	37.18				
AV	2.3659G	48.24	54.00	-5.76	-7.60	3	Vertical	44	2.35	55.84	27.40	2.79	37.79				
AV	4.00329G	38.33	54.00	-15.67	-3.08	3	Vertical	245	2.39	41.41	31.01	4.03	38.12				
PK	1.70592G	33.45	74.00	-40.55	-9.84	3	Vertical	192	2.29	43.29	25.10	2.24	37.18				
PK	2.35862G	58.82	74.00	-15.18	-7.61	3	Vertical	44	2.35	66.43	27.39	2.79	37.79				
PK	4.00335G	44.60	74.00	-29.40	-3.08	3	Vertical	245	2.39	47.68	31.01	4.03	38.12				

Radiated Emissions above 1GHz_Mode 4



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)				
AV	2.36493G	42.17	54.00	-11.83	-7.60	3	Horizontal	132	1.99	49.77	27.40	2.79	37.79				
AV	3.10757G	25.77	68.20	-42.43	-4.80	3	Horizontal	97	2.44	30.57	29.92	3.23	37.95				
AV	4.00331G	30.52	54.00	-23.48	-3.08	3	Horizontal	52	2.01	33.60	31.01	4.03	38.12				
PK	2.36098G	52.48	74.00	-21.52	-7.60	3	Horizontal	132	1.99	60.08	27.40	2.79	37.79				
PK	3.10828G	39.21	88.20	-48.99	-4.80	3	Horizontal	97	2.44	44.01	29.92	3.23	37.95				
PK	4.00365G	40.31	74.00	-33.69	-3.08	3	Horizontal	52	2.01	43.39	31.01	4.03	38.12				