

FCC Radio Test Report

FCC ID : YL6-143430132S
Equipment : Wireless Module
Brand Name : ALARM.COM
Model Name : 143430132S
Applicant : Alarm.com Incorporated
8281 Greensboro Drive, Suite 100, Tysons, VA 22102
United States
Manufacturer : Alarm.com Incorporated
8281 Greensboro Drive, Suite 100, Tysons, VA 22102
United States
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 29, 2025, and testing was started from Jul. 29, 2025 and completed on Oct. 10, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 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 Ver4.4
FCC ID: YL6-143430132S

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Ben Tseng

Report Producer: Debby Hung

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

Note:

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support
1	0	INPAQ	RFFPA351905IMLB301	PIFA	I-Pex	2.4G+5G+BT
2	1	INPAQ	RFFPA321405IMLB304	PIFA	I-Pex	2.4G+5G
3	0/1	INPAQ	RFMTA401025IMLB701	PIFA	I-Pex	2.4G+5G+BT
4	0/1	LITEON	20301-004790A000	Dipole	I-Pex	2.4G+5G+BT

Ant.	Port	Gain (dBi)					
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	BT
1	0	2.62	2.65	3.23	2.91	3.54	2.62
2	1	2.70	2.38	2.62	2.84	2.89	-
3	0/1	3.68	4.26	4.45	4.97	4.85	3.68
4	0/1	3.53	4.32	4.59	4.62	4.74	3.53

Note 1: The EUT has four antennas.

Note 2: EUT can match with above antennas for using. The highest gain in each type of antenna was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4GHz function:

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

Ant. 1, Ant. 2, Ant. 3 and Ant. 4 could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was port 1 and it was record in this test report.

For BT function:

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

Ant. 1, Ant. 3 and Ant. 4 could transmit/receive.

For 5GHz function:

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

Ant. 1, Ant. 2, Ant. 3 and Ant. 4 could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was port 1 and it was record in this test report.

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz) _1/T
BT-LE(1Mbps)	0.849	0.71	2.123m	500
BT-LE(2Mbps)	0.427	3.7	1.068m	1k

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

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024

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	23.3~23.5°C / 55~60%	10/Oct/2025
☒ 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		FAX: 886-3-318-0287	
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Johnny Yu	23.4~23.7°C / 52~56%	29/Aug/2025
Radiated	03CH25-HY	Rian Chung	22.3~23.5°C / 52~55%	29/Jul/2025~10/Oct/2025

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	3.44 dB	Confidence levels of 95%
Conducted Output Power	1.48 dB	Confidence levels of 95%
Bandwidth	0.05 MHz	Confidence levels of 95%
Conducted Emission	1.48 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

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

2.2 The Worst Case Measurement Configuration

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

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

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

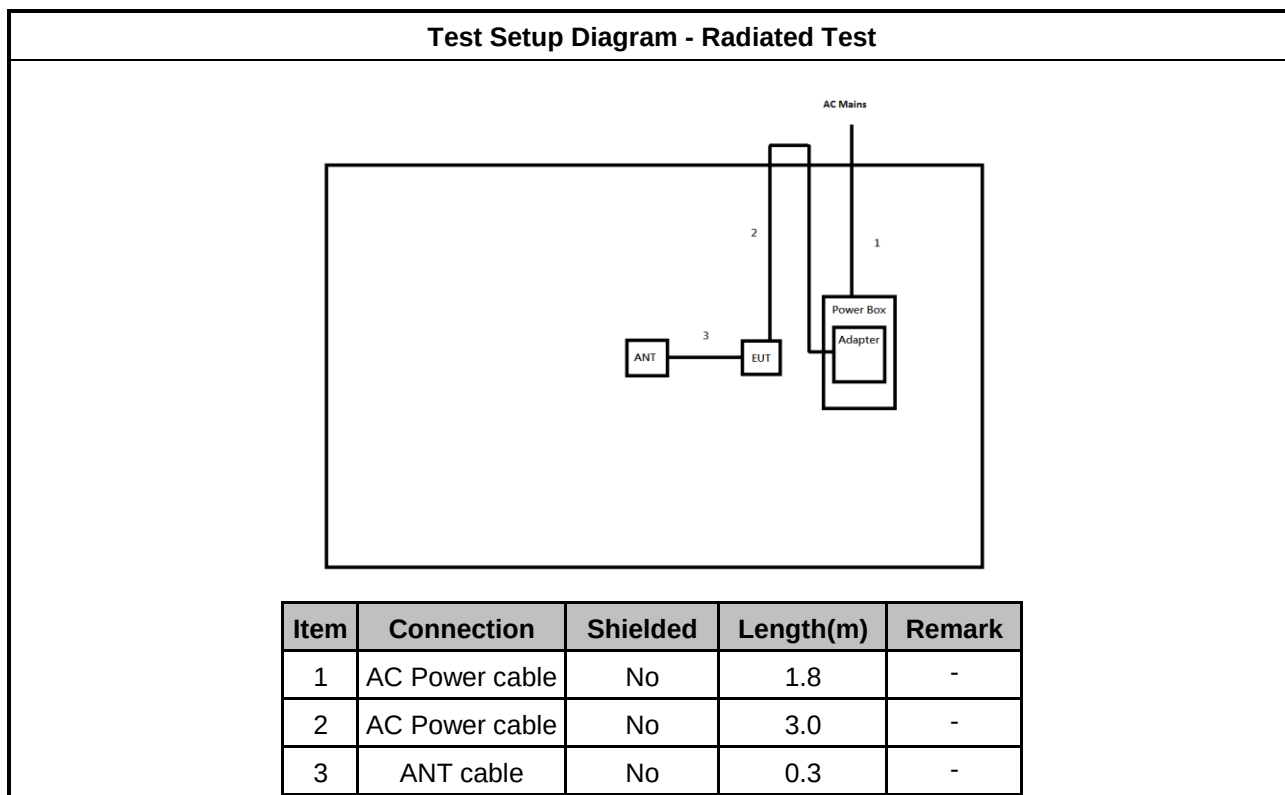
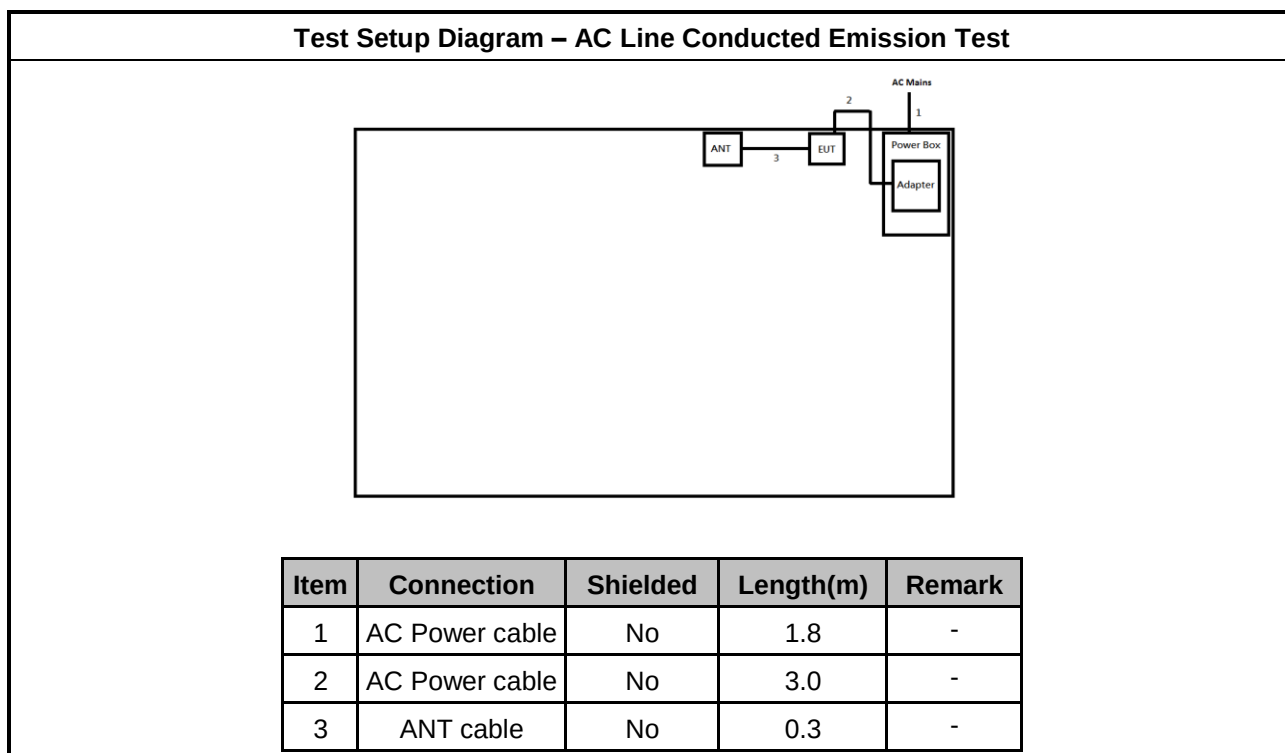
2.3 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	PYS	PYS-12UP120100U	-	-
2	AC Power cable	Power sync	PW-GPC180-3	-	-
3	PIFA Antenna	INPAQ	RFMTA401025IMLB701	-	-
4	Dipole Antenna	LITEON	20301-004790A000	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Adapter	PYS	PYS-12UP120100U	-	-
4	PIFA Antenna	INPAQ	RFFPA321405IMLB304	-	-
5	PIFA Antenna	INPAQ	RFFPA351905IMLB301	-	-
6	PIFA Antenna	INPAQ	RFMTA401025IMLB701	-	-
7	Dipole Antenna	LITEON	20301-004790A000	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	PYS	PYS-12UP120100U	-	-
2	AC Power cable	Power sync	PW-GPC180-3	-	-
3	PIFA Antenna	INPAQ	RFMTA401025IMLB701	-	-
4	Dipole Antenna	LITEON	20301-004790A000	-	-

2.4 Test Setup Diagram



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

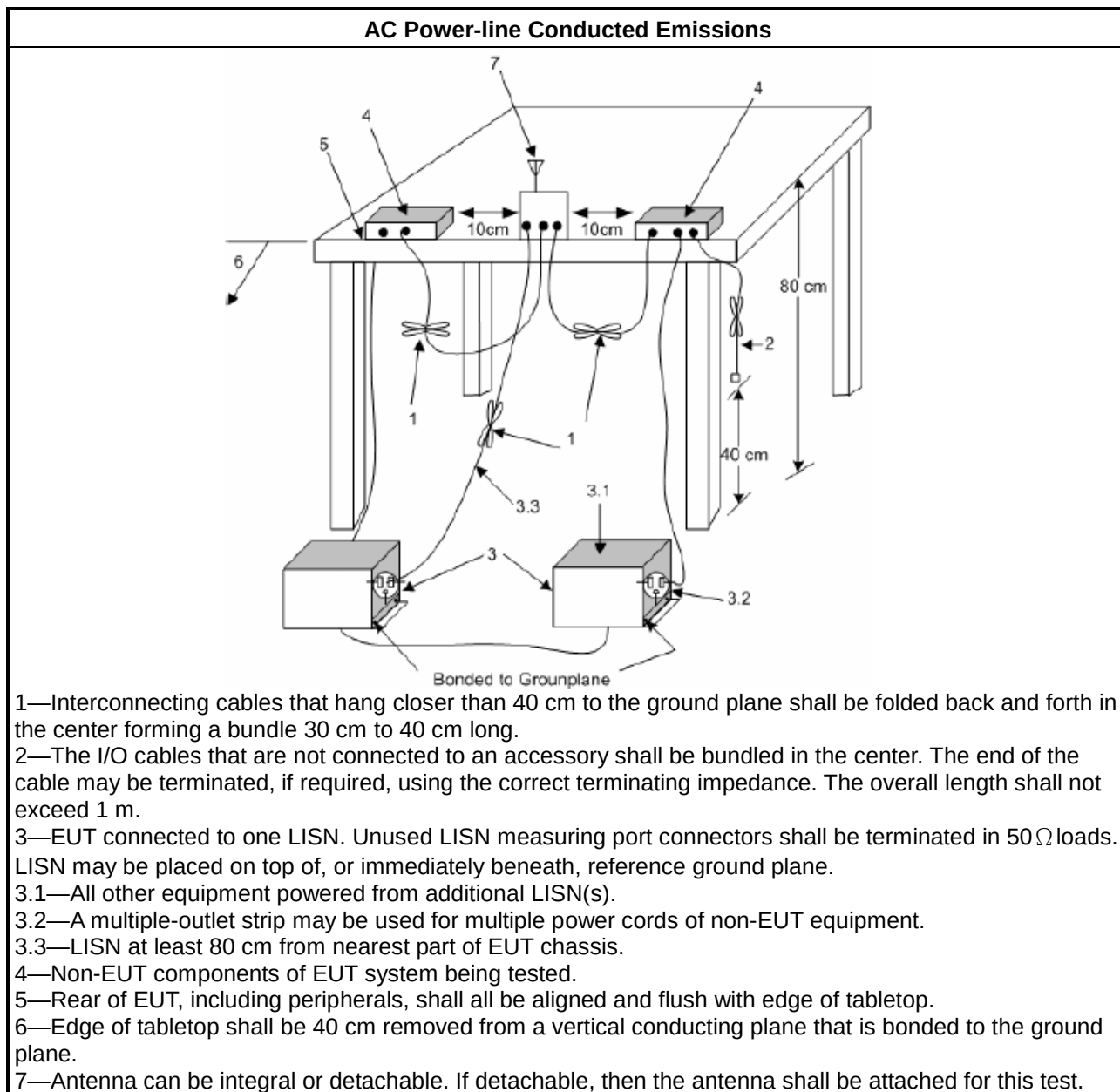
Test Method
Refer as ANSI C63.10, clause 6.2 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

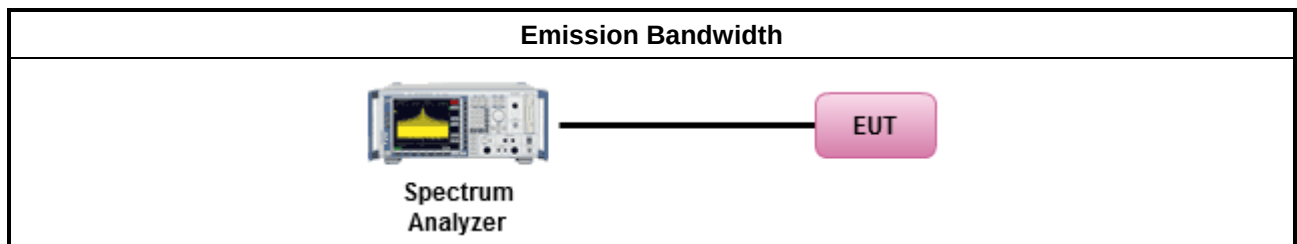
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

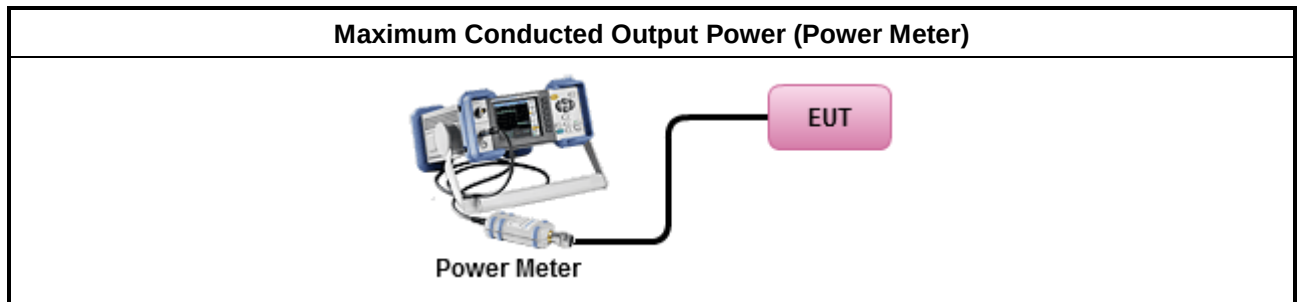
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

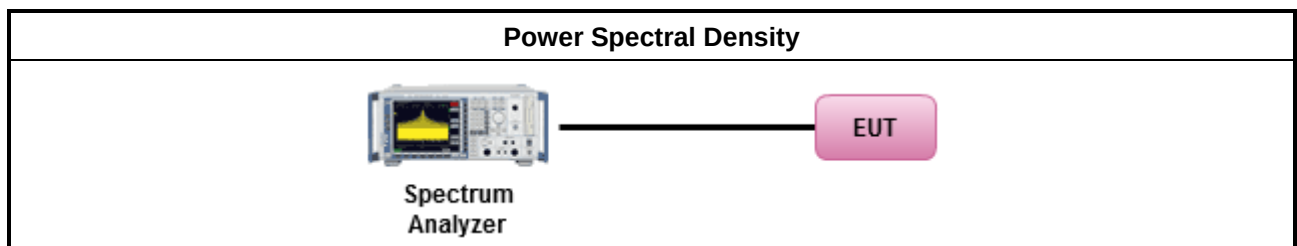
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

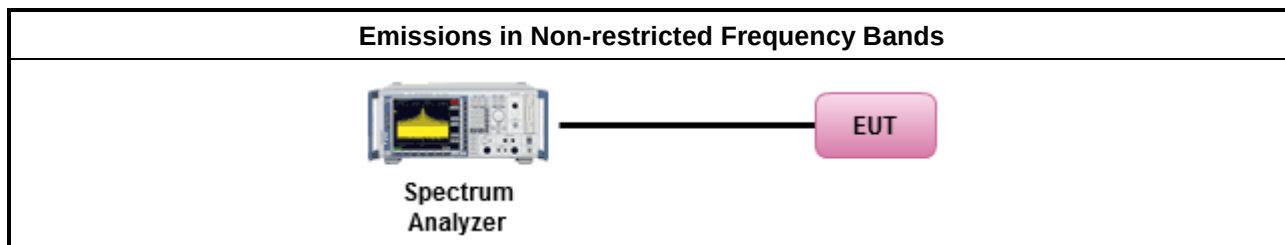
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

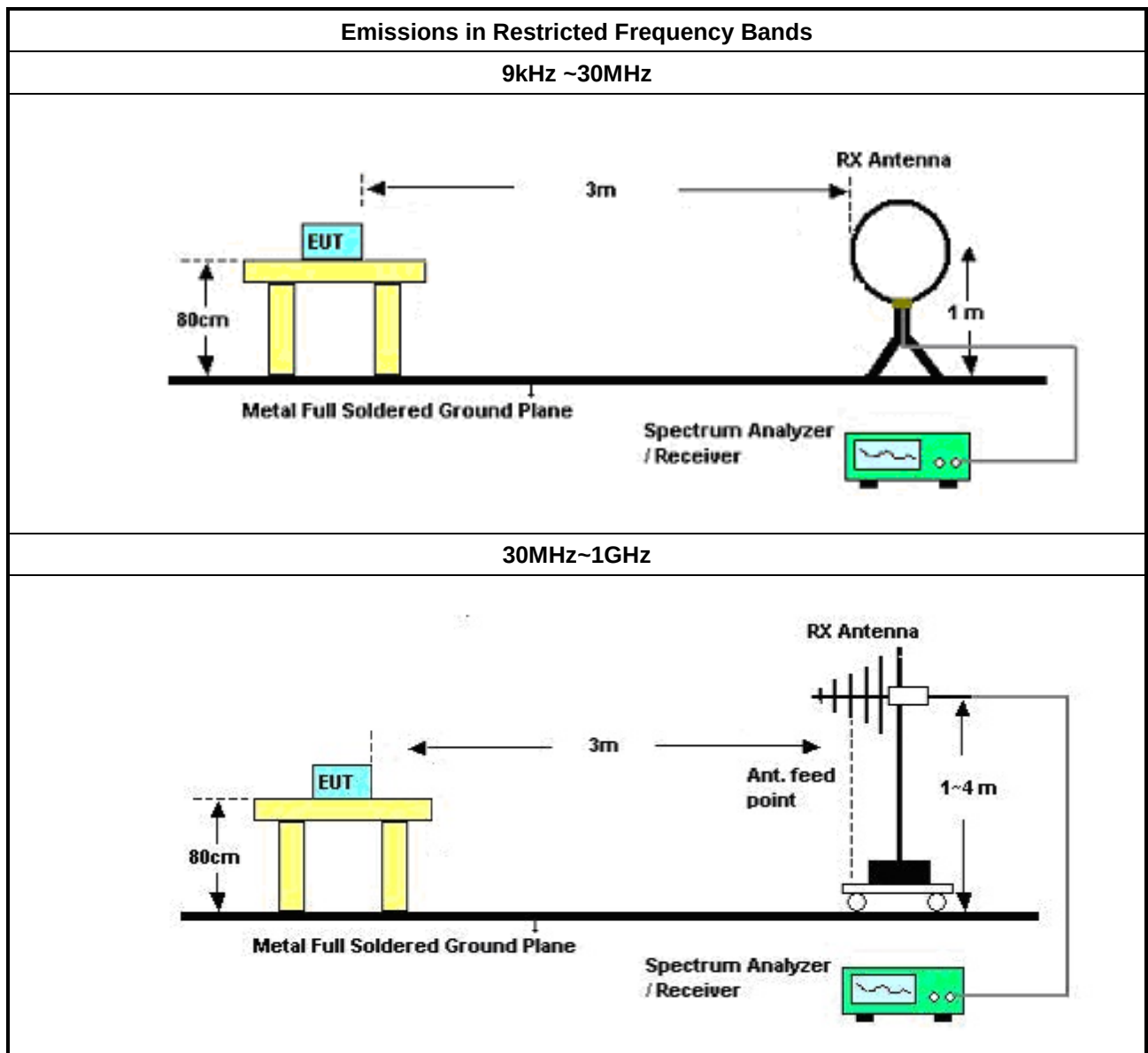
Test Method	
	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	For the transmitter unwanted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

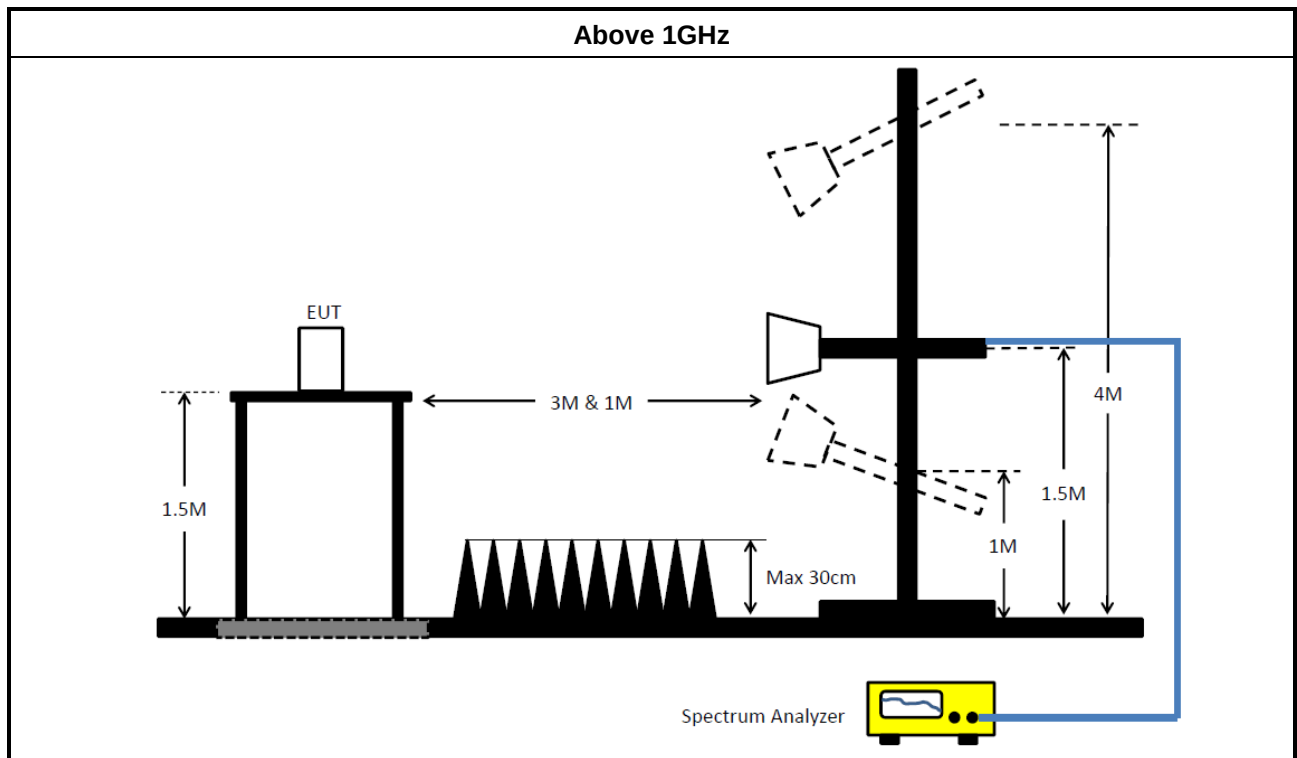
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	100003	9kHz ~ 30MHz	18/Apr/2025	17/Apr/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.6	-	NCR	NCR

NCR: No Calibration Required

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	30MHz~1GHz 3m	18/Jul/2025	17/Jul/2026
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	08/Aug/2024	07/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	07/Aug/2025	06/Aug/2026
ESR7 EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	18/Nov/2024	17/Nov/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63537/001	30MHz~1GHz	23/May/2025	22/May/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02876	1GHz~18GHz	02/Jul/2025	01/Jul/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	9kHz~1GHz	23/Apr/2025	22/Apr/2026
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	1GHz~40GHz	15/Feb/2025	14/Feb/2026
Preamplifier	SGH	PRAMP 903	20230515-1	25MHz~3GHz	21/May/2025	20/May/2026
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz~18GHz	21/May/2025	20/May/2026
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	18/Apr/2025	17/Apr/2026
SENSE-15247-FS	Sporton	V5.11.24	NA	NA	NA	NA

**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	28/Oct/2024	27/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	28/Mar/2025	27/Mar/2026
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	28/Mar/2025	27/Mar/2026
SENSE-15247_FS	Sporton	V5.11.27	N/A	N/A	01/Oct/2022	02/Nov/2030



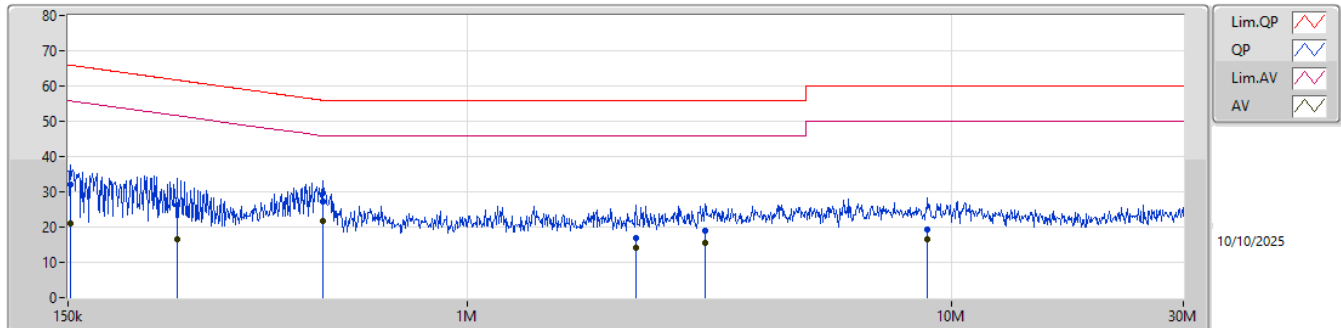
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	504.82k	32.41	46.00	-13.59	Neutral

Result

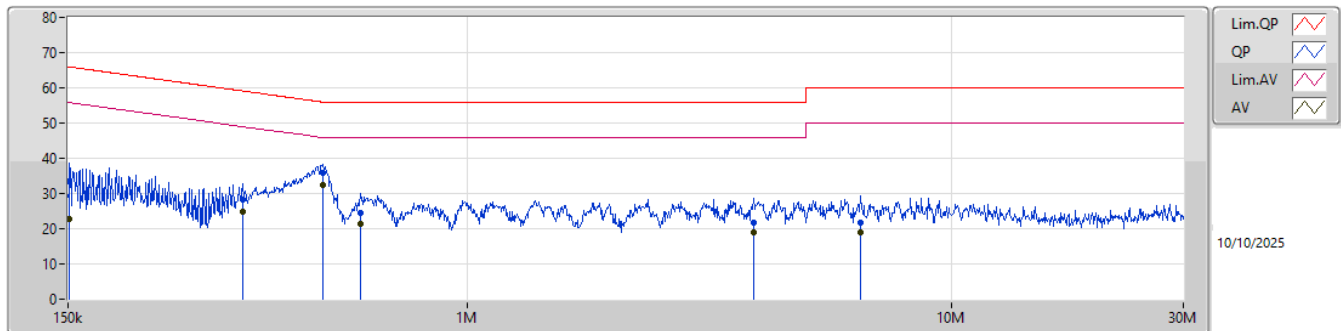
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	151.81k	32.21	65.90	-33.69	Line
Mode 1	Pass	AV	151.81k	21.16	55.90	-34.74	Line
Mode 1	Pass	QP	252.04k	26.05	61.70	-35.65	Line
Mode 1	Pass	AV	252.04k	16.70	51.70	-35.00	Line
Mode 1	Pass	QP	502.81k	27.10	56.00	-28.90	Line
Mode 1	Pass	AV	502.81k	21.70	46.00	-24.30	Line
Mode 1	Pass	QP	2.23M	16.75	56.00	-39.25	Line
Mode 1	Pass	AV	2.23M	14.03	46.00	-31.97	Line
Mode 1	Pass	QP	3.09M	18.89	56.00	-37.11	Line
Mode 1	Pass	AV	3.09M	15.51	46.00	-30.49	Line
Mode 1	Pass	QP	8.91M	19.20	60.00	-40.80	Line
Mode 1	Pass	AV	8.91M	16.54	50.00	-33.46	Line
Mode 1	Pass	QP	151.2k	33.33	65.92	-32.59	Neutral
Mode 1	Pass	AV	151.2k	22.77	55.92	-33.15	Neutral
Mode 1	Pass	QP	344.12k	28.28	59.10	-30.82	Neutral
Mode 1	Pass	AV	344.12k	24.72	49.10	-24.38	Neutral
Mode 1	Pass	QP	504.82k	35.89	56.00	-20.11	Neutral
Mode 1	Pass	AV	504.82k	32.41	46.00	-13.59	Neutral
Mode 1	Pass	QP	601.76k	24.34	56.00	-31.66	Neutral
Mode 1	Pass	AV	601.76k	21.21	46.00	-24.79	Neutral
Mode 1	Pass	QP	3.9M	21.89	56.00	-34.11	Neutral
Mode 1	Pass	AV	3.9M	19.02	46.00	-26.98	Neutral
Mode 1	Pass	QP	6.47M	21.70	60.00	-38.30	Neutral
Mode 1	Pass	AV	6.47M	18.97	50.00	-31.03	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	151.81k	32.21	65.90	-33.69	19.61	Line	12.60	9.63	0.01	9.97								
AV	151.81k	21.16	55.90	-34.74	19.61	Line	1.55	9.63	0.01	9.97								
QP	252.04k	26.05	61.70	-35.65	19.62	Line	6.43	9.63	0.02	9.97								
AV	252.04k	16.70	51.70	-35.00	19.62	Line	-2.92	9.63	0.02	9.97								
QP	502.81k	27.10	56.00	-28.90	19.64	Line	7.46	9.63	0.03	9.98								
AV	502.81k	21.70	46.00	-24.30	19.64	Line	2.06	9.63	0.03	9.98								
QP	2.23M	16.75	56.00	-39.25	19.66	Line	-2.91	9.66	0.03	9.97								
AV	2.23M	14.03	46.00	-31.97	19.66	Line	-5.63	9.66	0.03	9.97								
QP	3.09M	18.89	56.00	-37.11	19.69	Line	-0.80	9.67	0.04	9.98								
AV	3.09M	15.51	46.00	-30.49	19.69	Line	-4.18	9.67	0.04	9.98								
QP	8.91M	19.20	60.00	-40.80	19.97	Line	-0.77	9.77	0.22	9.98								
AV	8.91M	16.54	50.00	-33.46	19.97	Line	-3.43	9.77	0.22	9.98								

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	151.2k	33.33	65.92	-32.59	19.71	Neutral	13.62	9.73	0.01	9.97								
AV	151.2k	22.77	55.92	-33.15	19.71	Neutral	3.06	9.73	0.01	9.97								
QP	344.12k	28.28	59.10	-30.82	19.72	Neutral	8.56	9.71	0.03	9.98								
AV	344.12k	24.72	49.10	-24.38	19.72	Neutral	5.00	9.71	0.03	9.98								
QP	504.82k	35.89	56.00	-20.11	19.73	Neutral	16.16	9.71	0.04	9.98								
AV	504.82k	32.41	46.00	-13.59	19.73	Neutral	12.68	9.71	0.04	9.98								
QP	601.76k	24.34	56.00	-31.66	19.73	Neutral	4.61	9.71	0.04	9.98								
AV	601.76k	21.21	46.00	-24.79	19.73	Neutral	1.48	9.71	0.04	9.98								
QP	3.9M	21.89	56.00	-34.11	19.82	Neutral	2.07	9.79	0.05	9.98								
AV	3.9M	19.02	46.00	-26.98	19.82	Neutral	-0.80	9.79	0.05	9.98								
QP	6.47M	21.70	60.00	-38.30	20.01	Neutral	1.69	9.88	0.15	9.98								
AV	6.47M	18.97	50.00	-31.03	20.01	Neutral	-1.04	9.88	0.15	9.98								



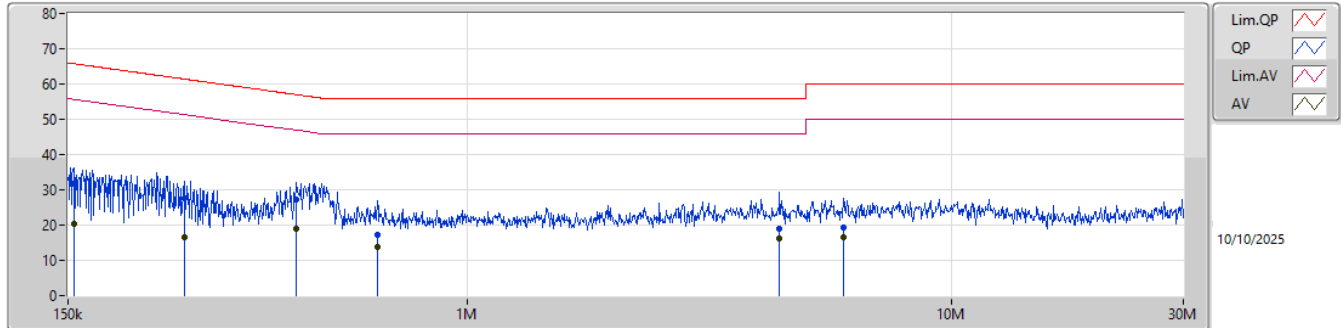
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	500k	33.49	46.00	-12.51	Neutral

Result

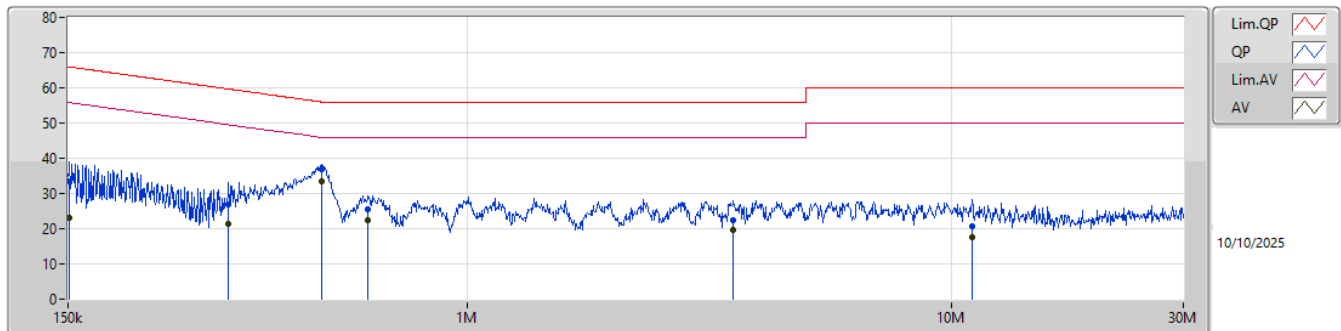
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	154.25k	31.57	65.77	-34.20	Line
Mode 1	Pass	AV	154.25k	20.41	55.77	-35.36	Line
Mode 1	Pass	QP	260.22k	27.57	61.43	-33.86	Line
Mode 1	Pass	AV	260.22k	16.60	51.43	-34.83	Line
Mode 1	Pass	QP	444.28k	27.16	56.98	-29.82	Line
Mode 1	Pass	AV	444.28k	18.99	46.98	-27.99	Line
Mode 1	Pass	QP	651.78k	17.30	56.00	-38.70	Line
Mode 1	Pass	AV	651.78k	13.89	46.00	-32.11	Line
Mode 1	Pass	QP	4.41M	18.90	56.00	-37.10	Line
Mode 1	Pass	AV	4.41M	16.22	46.00	-29.78	Line
Mode 1	Pass	QP	5.98M	19.41	60.00	-40.59	Line
Mode 1	Pass	AV	5.98M	16.68	50.00	-33.32	Line
Mode 1	Pass	QP	151.2k	33.44	65.92	-32.48	Neutral
Mode 1	Pass	AV	151.2k	22.94	55.92	-32.98	Neutral
Mode 1	Pass	QP	321.54k	26.80	59.67	-32.87	Neutral
Mode 1	Pass	AV	321.54k	21.30	49.67	-28.37	Neutral
Mode 1	Pass	QP	500k	36.74	56.00	-19.26	Neutral
Mode 1	Pass	AV	500k	33.49	46.00	-12.51	Neutral
Mode 1	Pass	QP	623.77k	25.54	56.00	-30.46	Neutral
Mode 1	Pass	AV	623.77k	22.31	46.00	-23.69	Neutral
Mode 1	Pass	QP	3.54M	22.55	56.00	-33.45	Neutral
Mode 1	Pass	AV	3.54M	19.72	46.00	-26.28	Neutral
Mode 1	Pass	QP	11M	20.56	60.00	-39.44	Neutral
Mode 1	Pass	AV	11M	17.59	50.00	-32.41	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	154.25k	31.57	65.77	-34.20	19.61	Line	11.96	9.63	0.01	9.97								
AV	154.25k	20.41	55.77	-35.36	19.61	Line	0.80	9.63	0.01	9.97								
QP	260.22k	27.57	61.43	-33.86	19.62	Line	7.95	9.63	0.02	9.97								
AV	260.22k	16.60	51.43	-34.83	19.62	Line	-3.02	9.63	0.02	9.97								
QP	444.28k	27.16	56.98	-29.82	19.64	Line	7.52	9.63	0.03	9.98								
AV	444.28k	18.99	46.98	-27.99	19.64	Line	-0.65	9.63	0.03	9.98								
QP	651.78k	17.30	56.00	-38.70	19.66	Line	-2.36	9.64	0.04	9.98								
AV	651.78k	13.89	46.00	-32.11	19.66	Line	-5.77	9.64	0.04	9.98								
QP	4.41M	18.90	56.00	-37.10	19.73	Line	-0.83	9.68	0.07	9.98								
AV	4.41M	16.22	46.00	-29.78	19.73	Line	-3.51	9.68	0.07	9.98								
QP	5.98M	19.41	60.00	-40.59	19.83	Line	-0.42	9.72	0.13	9.98								
AV	5.98M	16.68	50.00	-33.32	19.83	Line	-3.15	9.72	0.13	9.98								

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	151.2k	33.44	65.92	-32.48	19.71	Neutral	13.73	9.73	0.01	9.97								
AV	151.2k	22.94	55.92	-32.98	19.71	Neutral	3.23	9.73	0.01	9.97								
QP	321.54k	26.80	59.67	-32.87	19.71	Neutral	7.09	9.71	0.02	9.98								
AV	321.54k	21.30	49.67	-28.37	19.71	Neutral	1.59	9.71	0.02	9.98								
QP	500k	36.74	56.00	-19.26	19.72	Neutral	17.02	9.71	0.03	9.98								
AV	500k	33.49	46.00	-12.51	19.72	Neutral	13.77	9.71	0.03	9.98								
QP	623.77k	25.54	56.00	-30.46	19.73	Neutral	5.81	9.71	0.04	9.98								
AV	623.77k	22.31	46.00	-23.69	19.73	Neutral	2.58	9.71	0.04	9.98								
QP	3.54M	22.55	56.00	-33.45	19.81	Neutral	2.74	9.78	0.05	9.98								
AV	3.54M	19.72	46.00	-26.28	19.81	Neutral	-0.09	9.78	0.05	9.98								
QP	11M	20.56	60.00	-39.44	20.21	Neutral	0.35	9.98	0.25	9.98								
AV	11M	17.59	50.00	-32.41	20.21	Neutral	-2.62	9.98	0.25	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)	772.5k	1.056M	1M06F1D	656.25k	1.044M
BT-LE(2Mbps)	1.403M	2.071M	2M07F1D	1.205M	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 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	656.25k	1.049M
2440MHz	Pass	500k	703.75k	1.044M
2480MHz	Pass	500k	772.5k	1.056M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.205M	2.071M
2440MHz	Pass	500k	1.403M	2.054M
2480MHz	Pass	500k	1.233M	2.056M

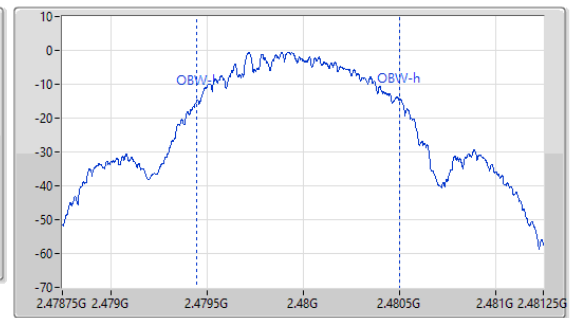
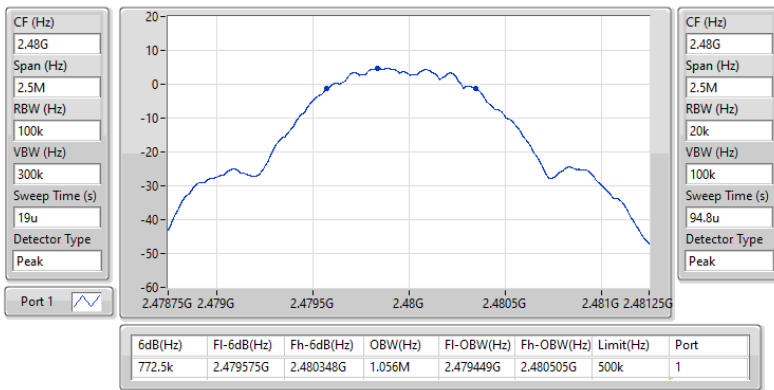
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2480MHz

29/08/2025

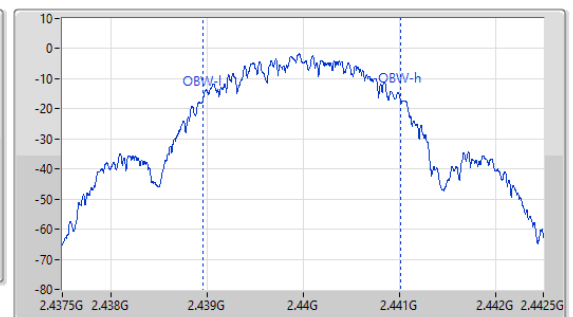
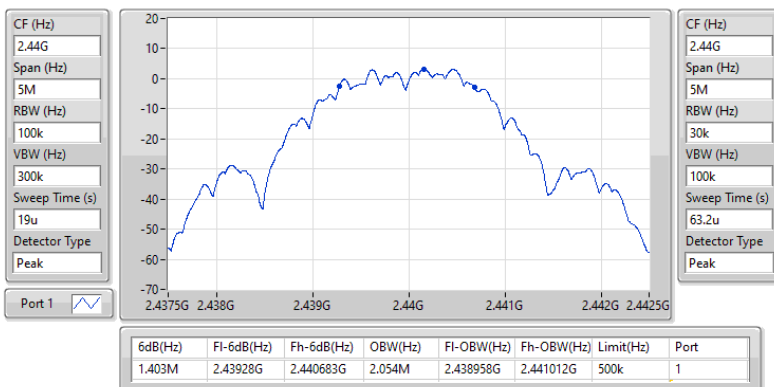


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2440MHz

29/08/2025





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)	772.5k	1.056M	1M06F1D	656.25k	1.044M
BT-LE(2Mbps)	1.403M	2.071M	2M07F1D	1.205M	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 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	656.25k	1.049M
2440MHz	Pass	500k	703.75k	1.044M
2480MHz	Pass	500k	772.5k	1.056M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.205M	2.071M
2440MHz	Pass	500k	1.403M	2.054M
2480MHz	Pass	500k	1.233M	2.056M

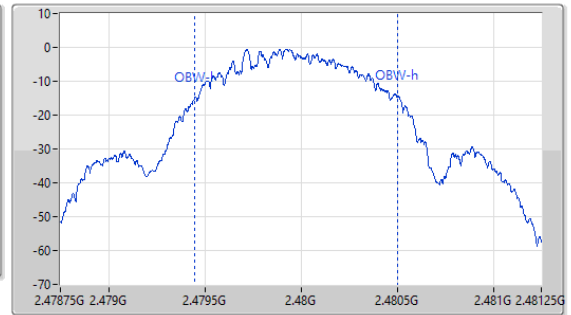
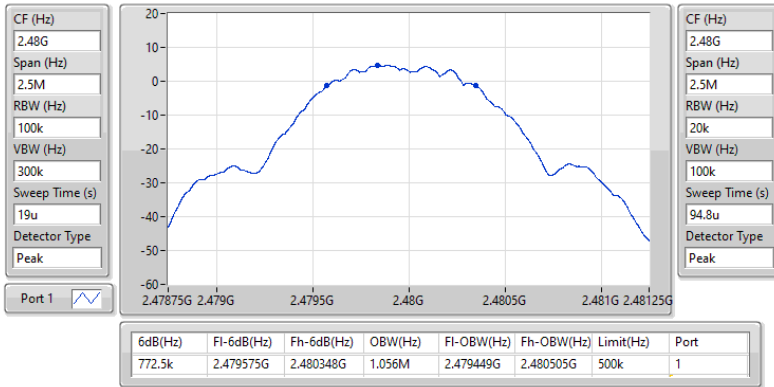
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2480MHz

29/08/2025

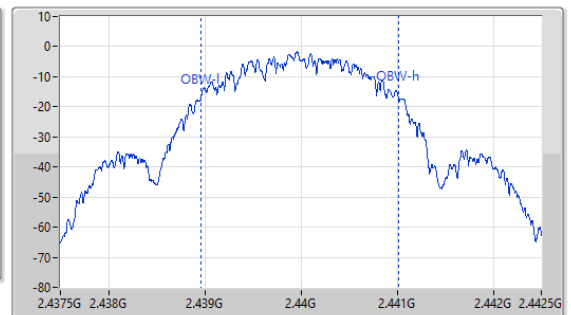
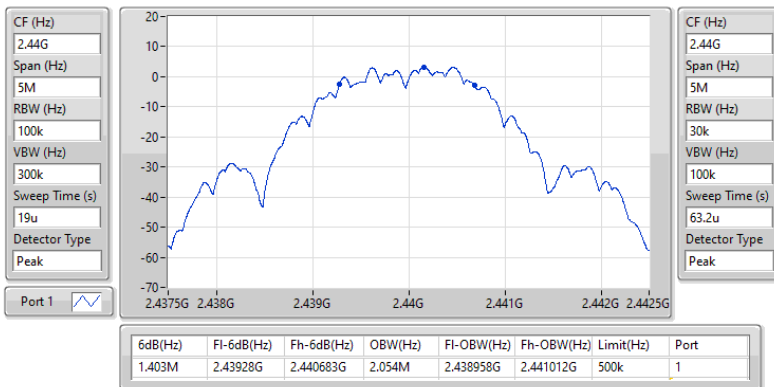


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

2440MHz

29/08/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	7.39	0.00548
BT-LE(2Mbps)	7.33	0.00541



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.68	7.18	30.00
2440MHz	Pass	3.68	7.39	30.00
2480MHz	Pass	3.68	7.29	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.68	7.11	30.00
2440MHz	Pass	3.68	7.33	30.00
2480MHz	Pass	3.68	7.23	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)	7.39	0.00548
BT-LE(2Mbps)	7.33	0.00541



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.53	7.18	30.00
2440MHz	Pass	3.53	7.39	30.00
2480MHz	Pass	3.53	7.29	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.53	7.11	30.00
2440MHz	Pass	3.53	7.33	30.00
2480MHz	Pass	3.53	7.23	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-9.95
BT-LE(2Mbps)	-12.96

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.68	-10.12	8.00
2440MHz	Pass	3.68	-9.95	8.00
2480MHz	Pass	3.68	-10.25	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.68	-13.49	8.00
2440MHz	Pass	3.68	-12.96	8.00
2480MHz	Pass	3.68	-13.76	8.00

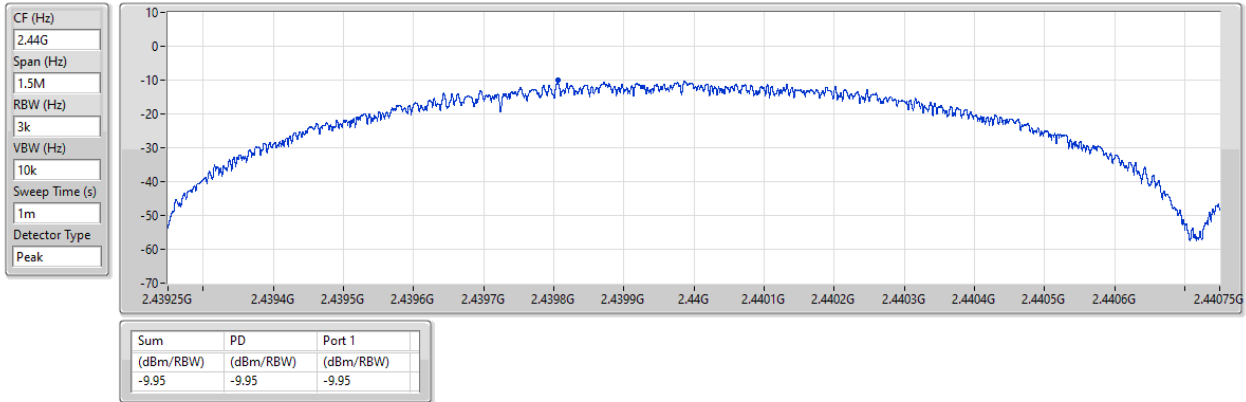
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

29/08/2025

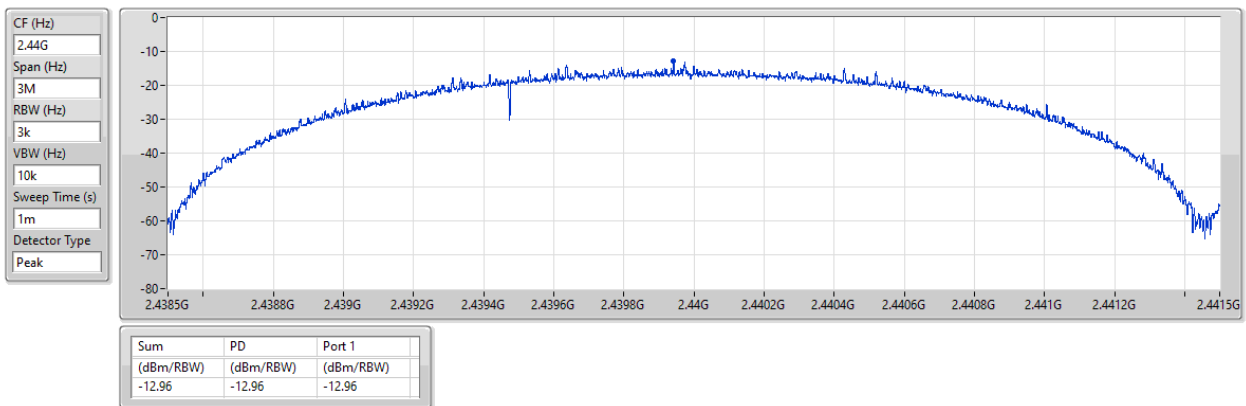


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

29/08/2025





Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-9.95
BT-LE(2Mbps)	-12.96

RBW = 3kHz;



Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.53	-10.12	8.00
2440MHz	Pass	3.53	-9.95	8.00
2480MHz	Pass	3.53	-10.25	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.53	-13.49	8.00
2440MHz	Pass	3.53	-12.96	8.00
2480MHz	Pass	3.53	-13.76	8.00

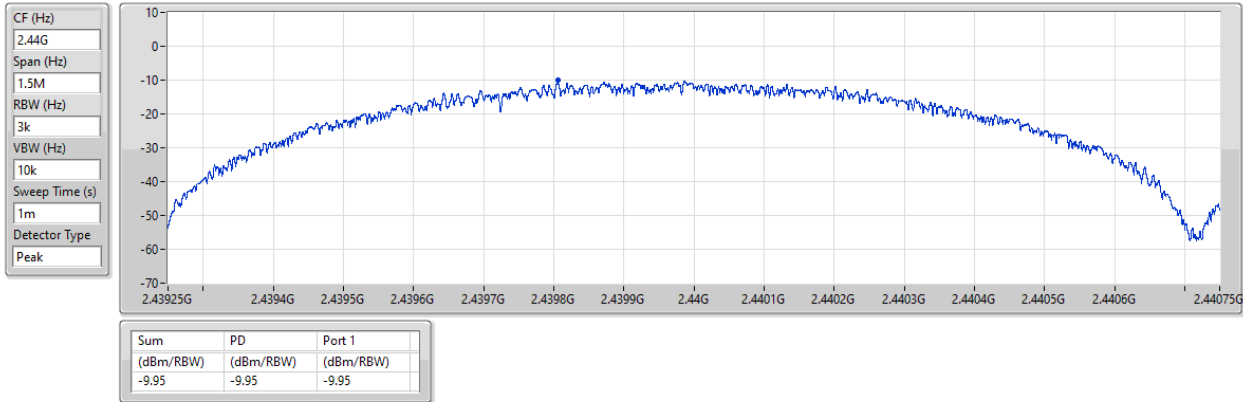
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

29/08/2025

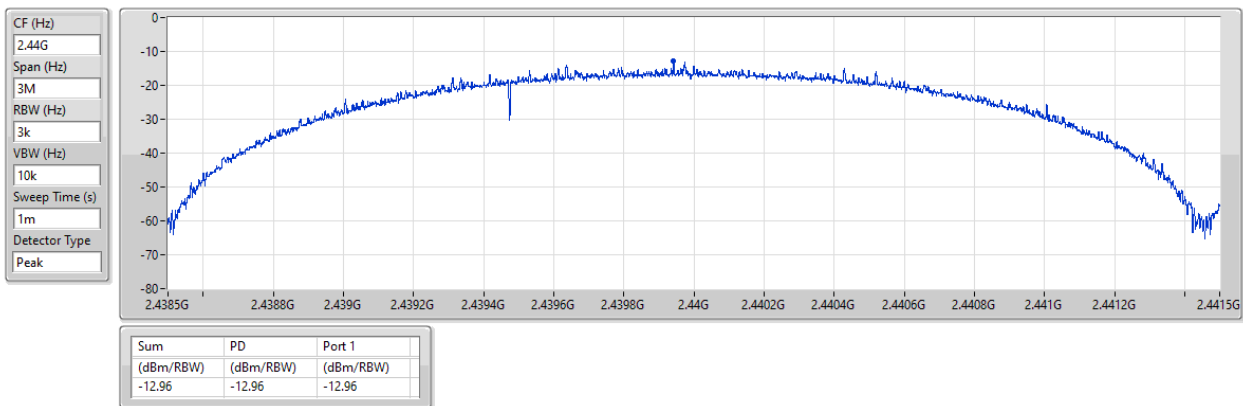


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

29/08/2025





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.44025G	6.55	-23.45	2.03338G	-52.04	2.4G	-55.23	2.4G	-57.32	2.50182G	-54.12	3.25151G	-39.28	1
BT-LE(2Mbps)	Pass	2.43991G	4.31	-25.69	2.00165G	-54.09	2.4G	-29.41	2.4G	-28.78	2.50126G	-54.42	3.20089G	-39.56	1

Result

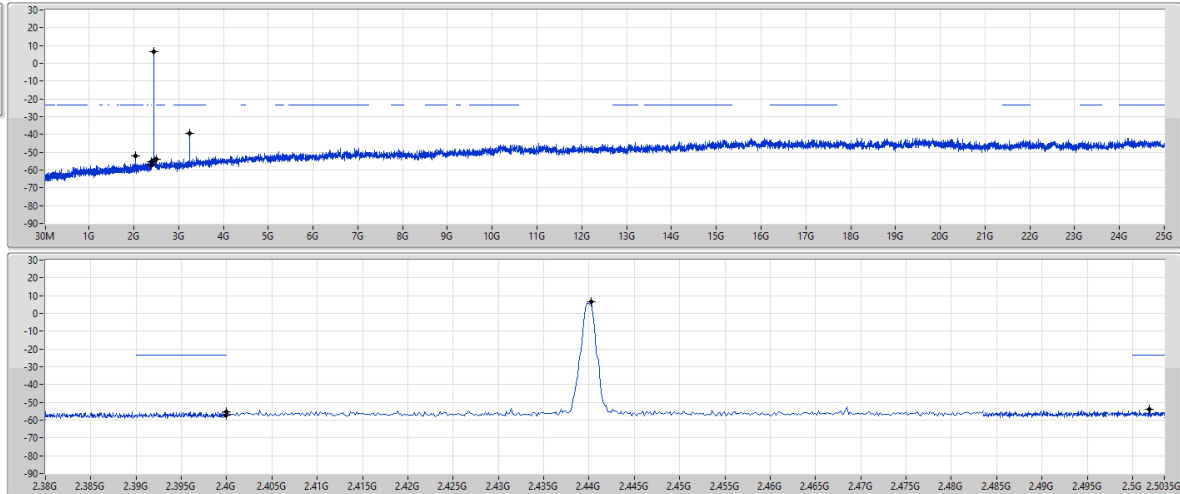
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44025G	6.55	-23.45	2.00165G	-54.17	2.3936G	-54.72	2.4G	-52.65	2.50314G	-54.67	3.20089G	-38.83	1
2440MHz	Pass	2.44025G	6.55	-23.45	2.03338G	-52.04	2.4G	-55.23	2.4G	-57.32	2.50182G	-54.12	3.25151G	-39.28	1
2480MHz	Pass	2.44025G	6.55	-23.45	2.06745G	-53.65	2.39956G	-55.24	2.4G	-56.95	2.50114G	-54.50	3.30494G	-42.11	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43991G	4.31	-25.69	2.00165G	-54.09	2.4G	-29.41	2.4G	-28.78	2.50126G	-54.42	3.20089G	-39.56	1
2440MHz	Pass	2.43991G	4.31	-25.69	2.03338G	-55.18	2.39828G	-55.03	2.4G	-56.50	2.50254G	-54.89	3.25151G	-40.32	1
2480MHz	Pass	2.43991G	4.31	-25.69	2.06745G	-52.27	2.39436G	-54.34	2.4G	-57.18	2.5013G	-54.94	24.16201G	-42.43	1

2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2440MHz

29/08/2025

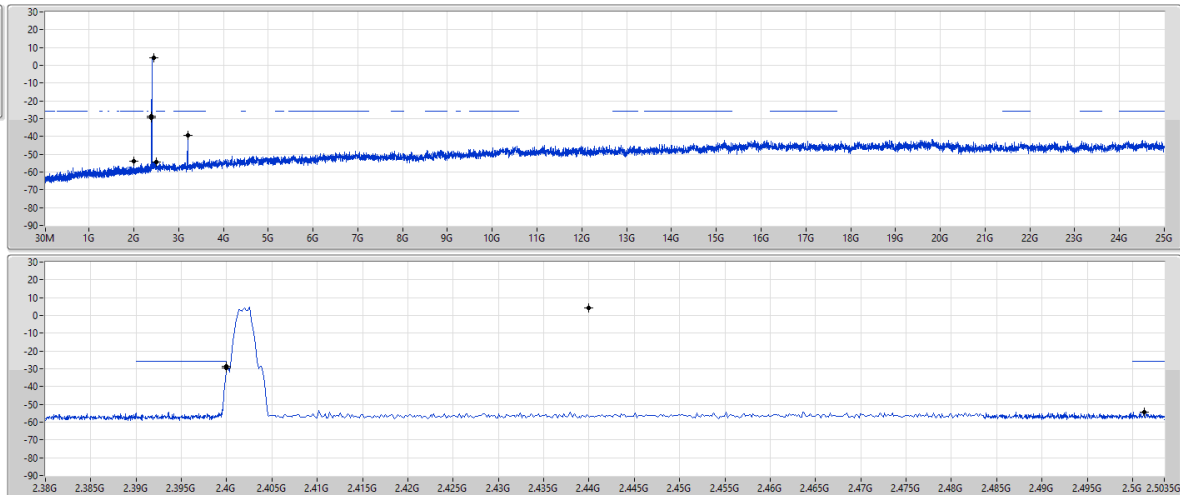
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

29/08/2025

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



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.44025G	6.55	-23.45	2.03338G	-52.04	2.4G	-55.23	2.4G	-57.32	2.50182G	-54.12	3.25151G	-39.28	1
BT-LE(2Mbps)	Pass	2.43991G	4.31	-25.69	2.00165G	-54.09	2.4G	-29.41	2.4G	-28.78	2.50126G	-54.42	3.20089G	-39.56	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44025G	6.55	-23.45	2.00165G	-54.17	2.3936G	-54.72	2.4G	-52.65	2.50314G	-54.67	3.20089G	-38.83	1
2440MHz	Pass	2.44025G	6.55	-23.45	2.03338G	-52.04	2.4G	-55.23	2.4G	-57.32	2.50182G	-54.12	3.25151G	-39.28	1
2480MHz	Pass	2.44025G	6.55	-23.45	2.06745G	-53.65	2.39956G	-55.24	2.4G	-56.95	2.50114G	-54.50	3.30494G	-42.11	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43991G	4.31	-25.69	2.00165G	-54.09	2.4G	-29.41	2.4G	-28.78	2.50126G	-54.42	3.20089G	-39.56	1
2440MHz	Pass	2.43991G	4.31	-25.69	2.03338G	-55.18	2.39828G	-55.03	2.4G	-56.50	2.50254G	-54.89	3.25151G	-40.32	1
2480MHz	Pass	2.43991G	4.31	-25.69	2.06745G	-52.27	2.39436G	-54.34	2.4G	-57.18	2.5013G	-54.94	24.16201G	-42.43	1

2.4-2.4835GHz_BT-LE(1Mbps)

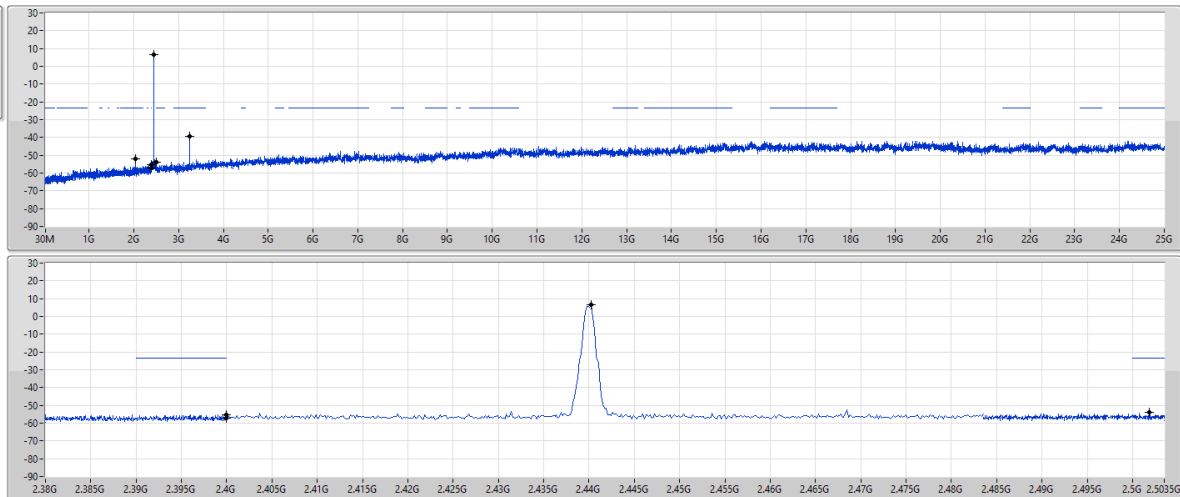
CSEndB-DTS

2440MHz

29/08/2025

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
2.44025G	6.55	-23.45	2.03338G	-52.04	2.4G	-55.23	2.4G	-57.32	2.50182G	-54.12	3.25151G	-39.28	1

2.4-2.4835GHz_BT-LE(2Mbps)

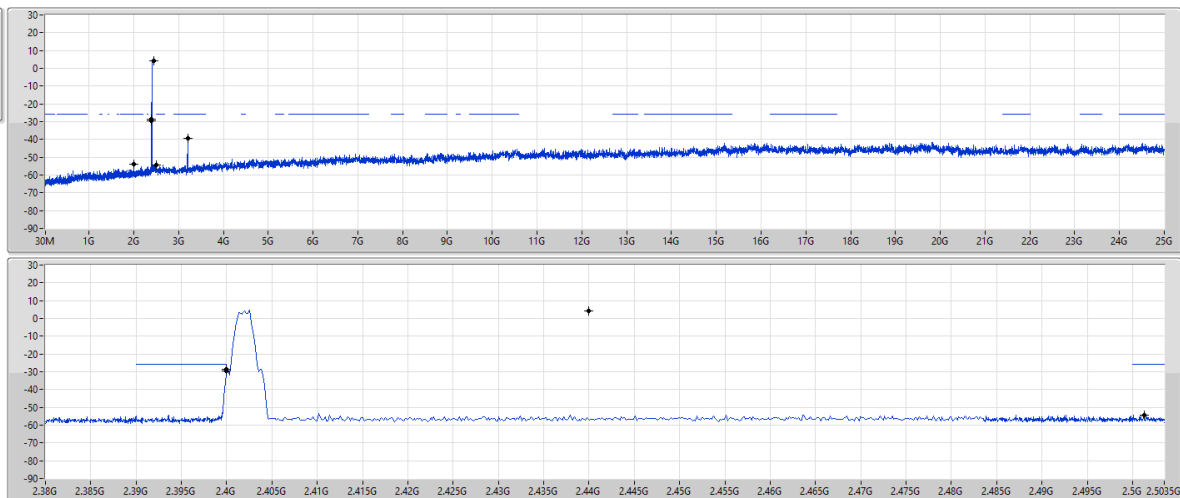
CSEndB-DTS

2402MHz

29/08/2025

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
2.43991G	4.31	-25.69	2.00165G	-54.09	2.4G	-29.41	2.4G	-28.78	2.50126G	-54.42	3.20089G	-39.56	1



Summary

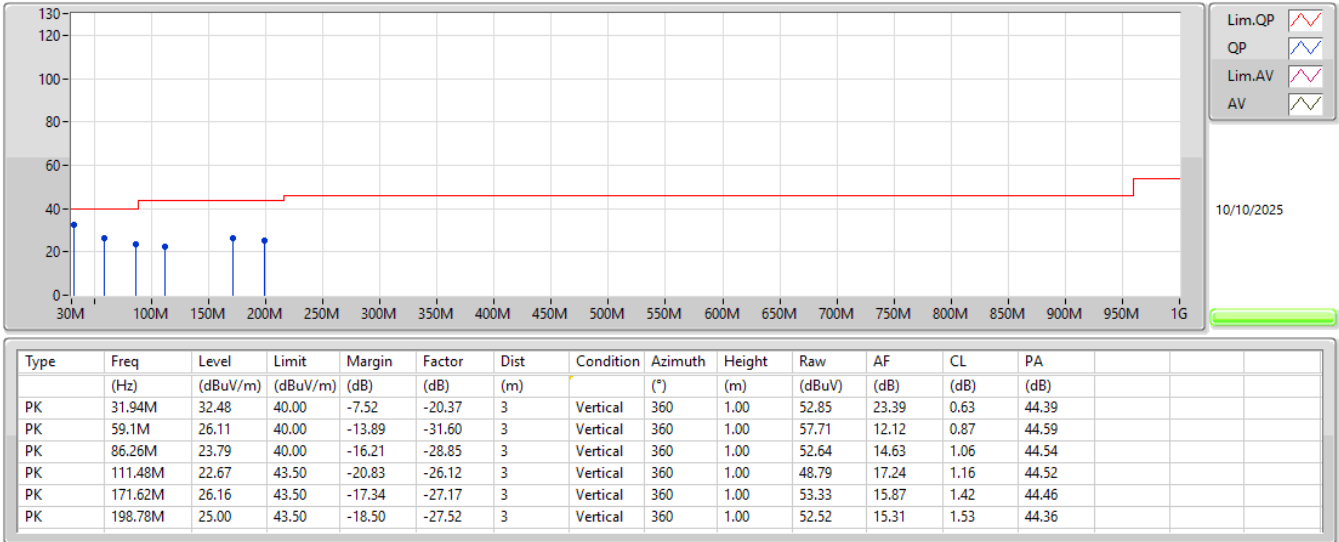
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	31.94M	32.48	40.00	-7.52	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	31.94M	32.48	40.00	-7.52	3	Vertical	360	1.00
2440MHz	Pass	PK	59.1M	26.11	40.00	-13.89	3	Vertical	360	1.00
2440MHz	Pass	PK	86.26M	23.79	40.00	-16.21	3	Vertical	360	1.00
2440MHz	Pass	PK	111.48M	22.67	43.50	-20.83	3	Vertical	360	1.00
2440MHz	Pass	PK	171.62M	26.16	43.50	-17.34	3	Vertical	360	1.00
2440MHz	Pass	PK	198.78M	25.00	43.50	-18.50	3	Vertical	360	1.00
2440MHz	Pass	PK	31.94M	24.13	40.00	-15.87	3	Horizontal	0	1.00
2440MHz	Pass	PK	84.32M	22.18	40.00	-17.82	3	Horizontal	0	1.00
2440MHz	Pass	PK	171.62M	28.46	43.50	-15.04	3	Horizontal	0	1.00
2440MHz	Pass	PK	270.56M	21.95	46.00	-24.05	3	Horizontal	0	1.00
2440MHz	Pass	PK	334.58M	23.20	46.00	-22.80	3	Horizontal	0	1.00
2440MHz	Pass	PK	703.18M	30.13	46.00	-15.87	3	Horizontal	0	1.00

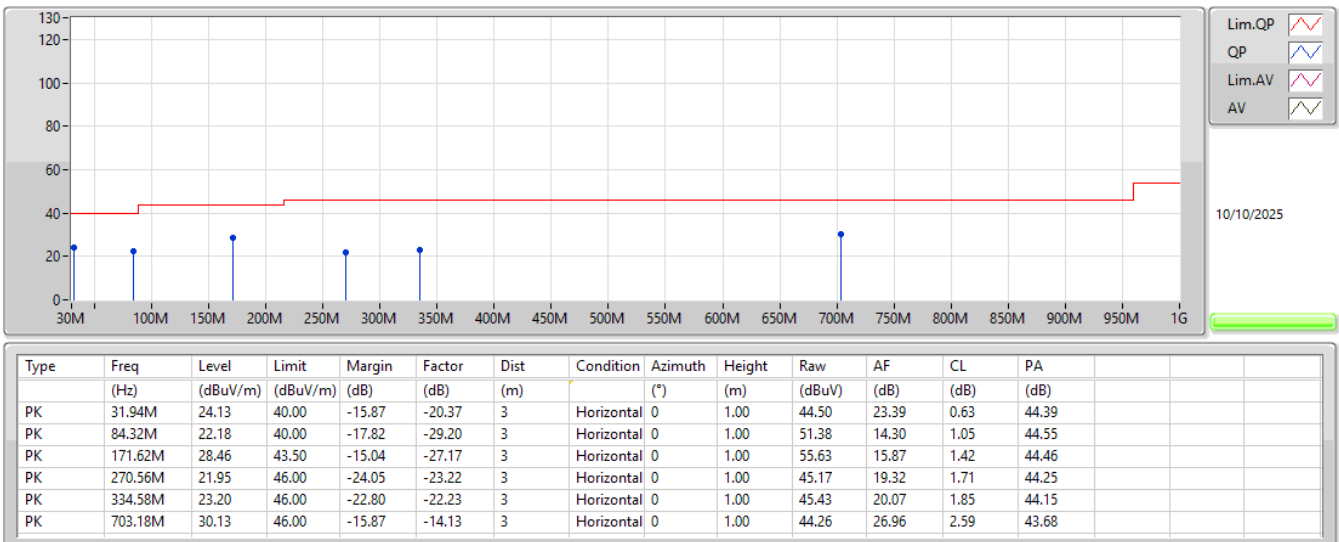
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Adapter



2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Adapter





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4984G	46.05	54.00	-7.95	3	Horizontal	286	1.01
BT-LE(2Mbps)	Pass	AV	2.4924G	46.38	54.00	-7.62	3	Horizontal	287	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	Pass	AV	2.3884G	45.12	54.00	-8.88	3	Horizontal	49	1.00
2402MHz	Pass	AV	2.402G	101.19	Inf	-Inf	3	Horizontal	49	1.00
2402MHz	Pass	PK	2.3648G	58.97	74.00	-15.03	3	Horizontal	49	1.00
2402MHz	Pass	PK	2.4022G	102.40	Inf	-Inf	3	Horizontal	49	1.00
2402MHz	Pass	AV	4.80437G	29.81	54.00	-24.19	3	Vertical	64	1.11
2402MHz	Pass	PK	4.80431G	42.67	74.00	-31.33	3	Vertical	64	1.11
2402MHz	Pass	AV	4.80408G	31.66	54.00	-22.34	3	Horizontal	331	2.69
2402MHz	Pass	PK	4.80439G	43.82	74.00	-30.18	3	Horizontal	331	2.69
2440MHz	Pass	AV	2.3804G	45.03	54.00	-8.97	3	Horizontal	286	1.01
2440MHz	Pass	AV	2.44G	102.41	Inf	-Inf	3	Horizontal	286	1.01
2440MHz	Pass	AV	2.4984G	46.05	54.00	-7.95	3	Horizontal	286	1.01
2440MHz	Pass	PK	2.35G	58.70	74.00	-15.30	3	Horizontal	286	1.01
2440MHz	Pass	PK	2.4396G	103.66	Inf	-Inf	3	Horizontal	286	1.01
2440MHz	Pass	PK	2.4868G	60.03	74.00	-13.97	3	Horizontal	286	1.01
2440MHz	Pass	AV	4.87968G	29.08	54.00	-24.92	3	Vertical	18	1.50
2440MHz	Pass	AV	7.31112G	34.38	54.00	-19.62	3	Vertical	287	2.64
2440MHz	Pass	PK	4.88836G	42.52	74.00	-31.48	3	Vertical	18	1.50
2440MHz	Pass	PK	7.31836G	47.65	74.00	-26.35	3	Vertical	287	2.64
2440MHz	Pass	AV	4.88012G	30.95	54.00	-23.05	3	Horizontal	318	2.82
2440MHz	Pass	AV	7.3126G	34.57	54.00	-19.43	3	Horizontal	253	1.44
2440MHz	Pass	PK	4.8796G	43.28	74.00	-30.72	3	Horizontal	318	2.82
2440MHz	Pass	PK	7.3192G	47.79	74.00	-26.21	3	Horizontal	253	1.44
2480MHz	Pass	AV	2.4798G	101.07	Inf	-Inf	3	Horizontal	51	1.00
2480MHz	Pass	AV	2.492G	45.99	54.00	-8.01	3	Horizontal	51	1.00
2480MHz	Pass	PK	2.4798G	102.42	Inf	-Inf	3	Horizontal	51	1.00
2480MHz	Pass	PK	2.4918G	59.99	74.00	-14.01	3	Horizontal	51	1.00
2480MHz	Pass	AV	4.96034G	30.63	54.00	-23.37	3	Vertical	57	1.31
2480MHz	Pass	AV	7.43929G	33.51	54.00	-20.49	3	Vertical	311	2.71
2480MHz	Pass	PK	4.95772G	43.87	74.00	-30.13	3	Vertical	57	1.31
2480MHz	Pass	PK	7.4414G	46.58	74.00	-27.42	3	Vertical	311	2.71
2480MHz	Pass	AV	4.95973G	32.41	54.00	-21.59	3	Horizontal	329	2.86
2480MHz	Pass	AV	7.44185G	33.60	54.00	-20.40	3	Horizontal	32	1.52
2480MHz	Pass	PK	4.95954G	45.25	74.00	-28.75	3	Horizontal	329	2.86
2480MHz	Pass	PK	7.44059G	48.86	74.00	-25.14	3	Horizontal	32	1.52
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.356G	45.37	54.00	-8.63	3	Horizontal	48	1.00
2402MHz	Pass	AV	2.402G	99.48	Inf	-Inf	3	Horizontal	48	1.00
2402MHz	Pass	PK	2.3686G	58.47	74.00	-15.53	3	Horizontal	48	1.00
2402MHz	Pass	PK	2.4024G	102.82	Inf	-Inf	3	Horizontal	48	1.00
2402MHz	Pass	AV	4.80488G	31.27	54.00	-22.73	3	Vertical	330	2.66
2402MHz	Pass	PK	4.8052G	43.01	74.00	-30.99	3	Vertical	330	2.66
2402MHz	Pass	AV	4.80304G	30.73	54.00	-23.27	3	Horizontal	330	2.66
2402MHz	Pass	PK	4.80448G	43.38	74.00	-30.62	3	Horizontal	330	2.66
2440MHz	Pass	AV	2.378G	45.43	54.00	-8.57	3	Horizontal	287	1.00
2440MHz	Pass	AV	2.44G	99.97	Inf	-Inf	3	Horizontal	287	1.00
2440MHz	Pass	AV	2.4924G	46.38	54.00	-7.62	3	Horizontal	287	1.00
2440MHz	Pass	PK	2.3464G	59.24	74.00	-14.76	3	Horizontal	287	1.00
2440MHz	Pass	PK	2.4396G	103.59	Inf	-Inf	3	Horizontal	287	1.00
2440MHz	Pass	PK	2.4988G	59.55	74.00	-14.45	3	Horizontal	287	1.00
2440MHz	Pass	AV	4.88968G	29.47	54.00	-24.53	3	Vertical	8	2.93
2440MHz	Pass	AV	7.32146G	34.62	54.00	-19.38	3	Vertical	264	1.93
2440MHz	Pass	PK	4.87168G	42.87	74.00	-31.13	3	Vertical	8	2.93
2440MHz	Pass	PK	7.3201G	47.89	74.00	-26.11	3	Vertical	264	1.93
2440MHz	Pass	AV	4.892G	29.41	54.00	-24.59	3	Horizontal	102	1.50
2440MHz	Pass	AV	7.32019G	34.55	54.00	-19.45	3	Horizontal	31	2.75
2440MHz	Pass	PK	4.86528G	42.53	74.00	-31.47	3	Horizontal	102	1.50
2440MHz	Pass	PK	7.32076G	47.98	74.00	-26.02	3	Horizontal	31	2.75
2480MHz	Pass	AV	2.48G	99.34	Inf	-Inf	3	Horizontal	51	1.00
2480MHz	Pass	AV	2.4964G	46.34	54.00	-7.66	3	Horizontal	51	1.00
2480MHz	Pass	PK	2.4804G	102.91	Inf	-Inf	3	Horizontal	51	1.00



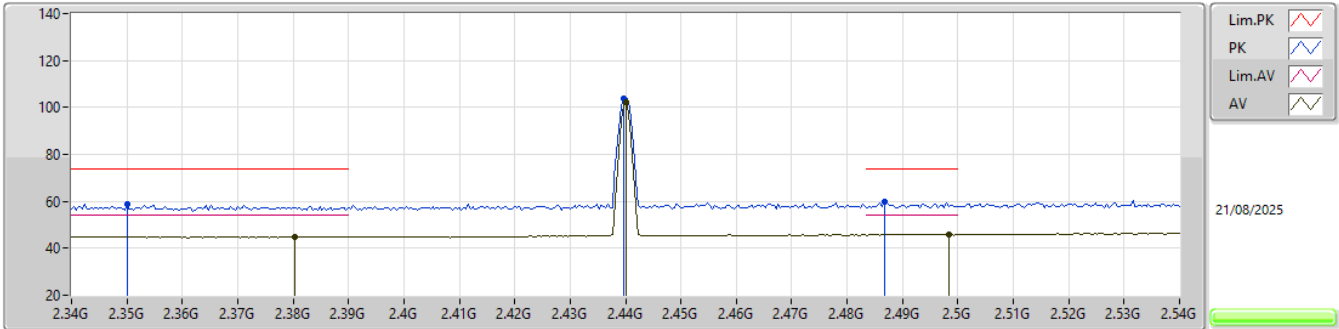
RSE TX above 1GHz_PIFA Antenna

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2480MHz	Pass	PK	2.4934G	60.23	74.00	-13.77	3	Horizontal	51	1.00
2480MHz	Pass	PK	4.96288G	43.77	74.00	-30.23	3	Vertical	57	1.01
2480MHz	Pass	AV	4.9608G	30.77	54.00	-23.23	3	Vertical	57	1.01
2480MHz	Pass	PK	7.4404G	46.54	74.00	-27.46	3	Vertical	263	1.59
2480MHz	Pass	AV	7.44178G	33.80	54.00	-20.20	3	Vertical	263	1.59
2480MHz	Pass	PK	4.94784G	43.95	74.00	-30.05	3	Horizontal	350	2.88
2480MHz	Pass	AV	4.96088G	30.93	54.00	-23.07	3	Horizontal	350	2.88
2480MHz	Pass	PK	7.43996G	46.96	74.00	-27.04	3	Horizontal	65	1.09
2480MHz	Pass	AV	7.44118G	33.90	54.00	-20.10	3	Horizontal	65	1.09

2.4-2.4835GHz_BT-LE(1Mbps)

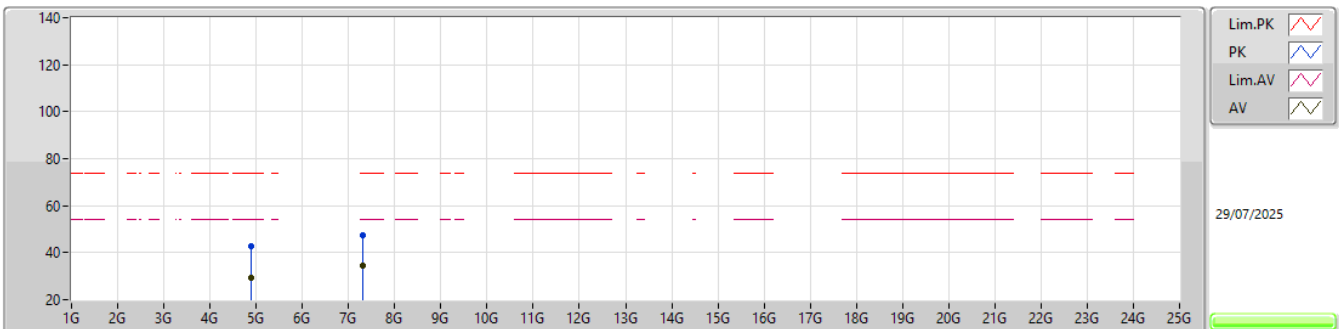
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3804G	45.03	54.00	-8.97	31.89	3	Horizontal	286	1.01	13.14	27.20	4.69	-
AV	2.44G	102.41	Inf	-Inf	32.36	3	Horizontal	286	1.01	70.05	27.60	4.76	-
AV	2.4984G	46.05	54.00	-7.95	32.90	3	Horizontal	286	1.01	13.15	28.00	4.90	-
PK	2.35G	58.70	74.00	-15.30	32.01	3	Horizontal	286	1.01	26.69	27.30	4.71	-
PK	2.4396G	103.66	Inf	-Inf	32.36	3	Horizontal	286	1.01	71.30	27.60	4.76	-
PK	2.4868G	60.03	74.00	-13.97	32.81	3	Horizontal	286	1.01	27.22	27.94	4.87	-

2.4-2.4835GHz_BT-LE(1Mbps)

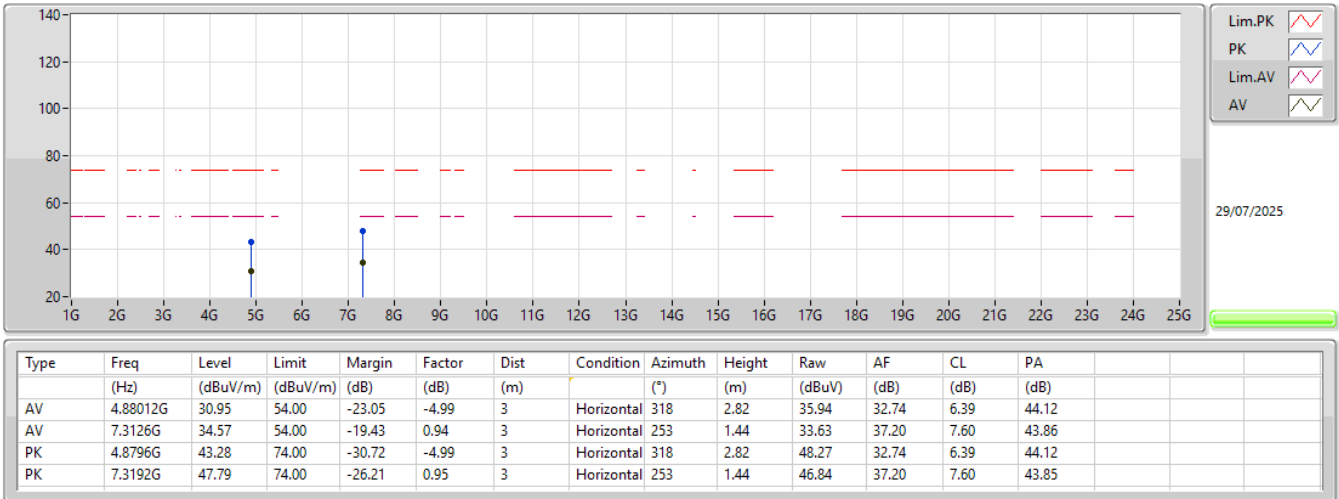
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87968G	29.08	54.00	-24.92	-4.99	3	Vertical	18	1.50	34.07	32.74	6.39	44.12
AV	7.31112G	34.38	54.00	-19.62	0.94	3	Vertical	287	2.64	33.44	37.20	7.60	43.86
PK	4.88836G	42.52	74.00	-31.48	-4.91	3	Vertical	18	1.50	47.43	32.81	6.40	44.12
PK	7.31836G	47.65	74.00	-26.35	0.95	3	Vertical	287	2.64	46.70	37.20	7.60	43.85

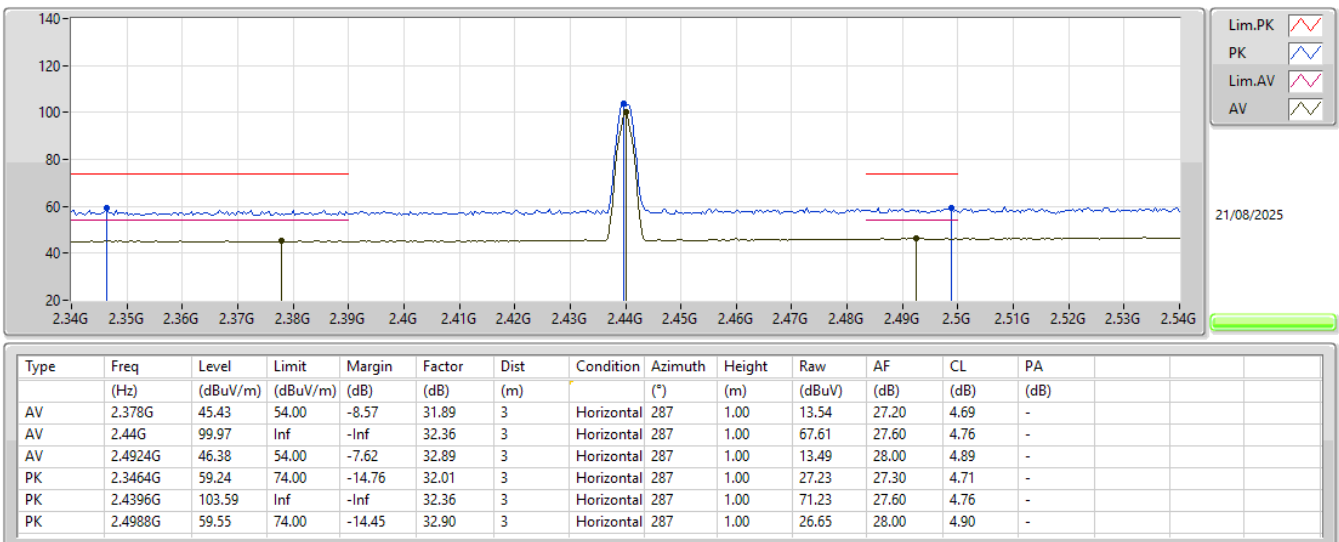
2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX



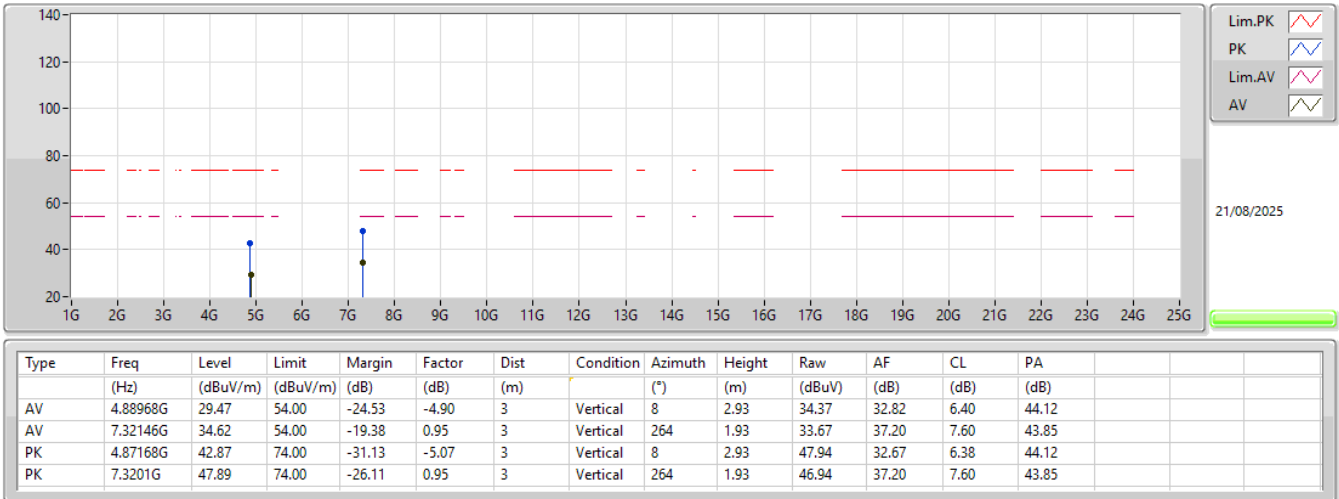
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX



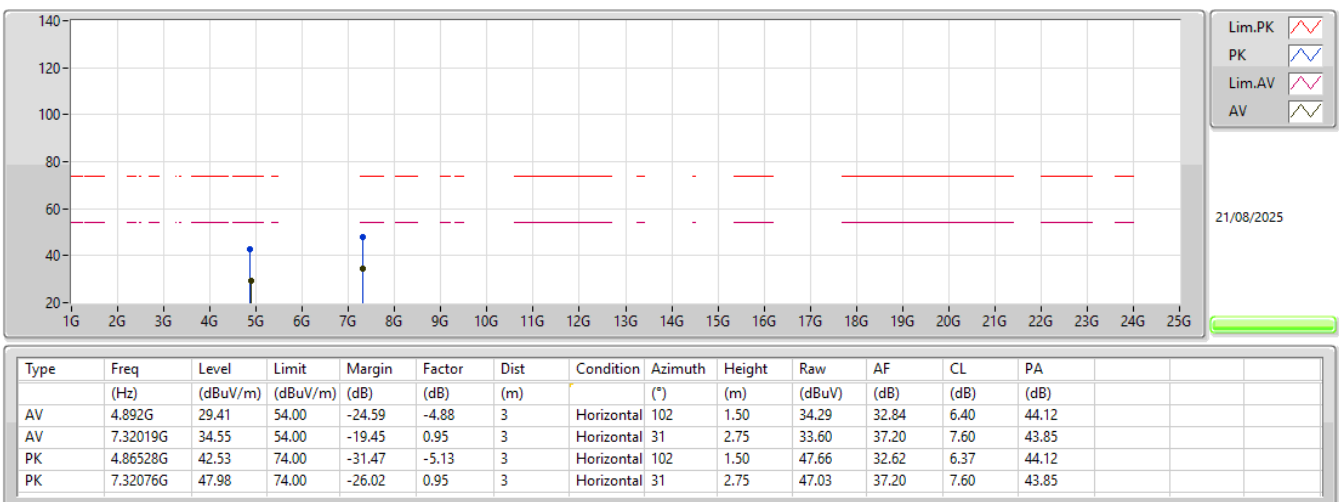
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX





Summary

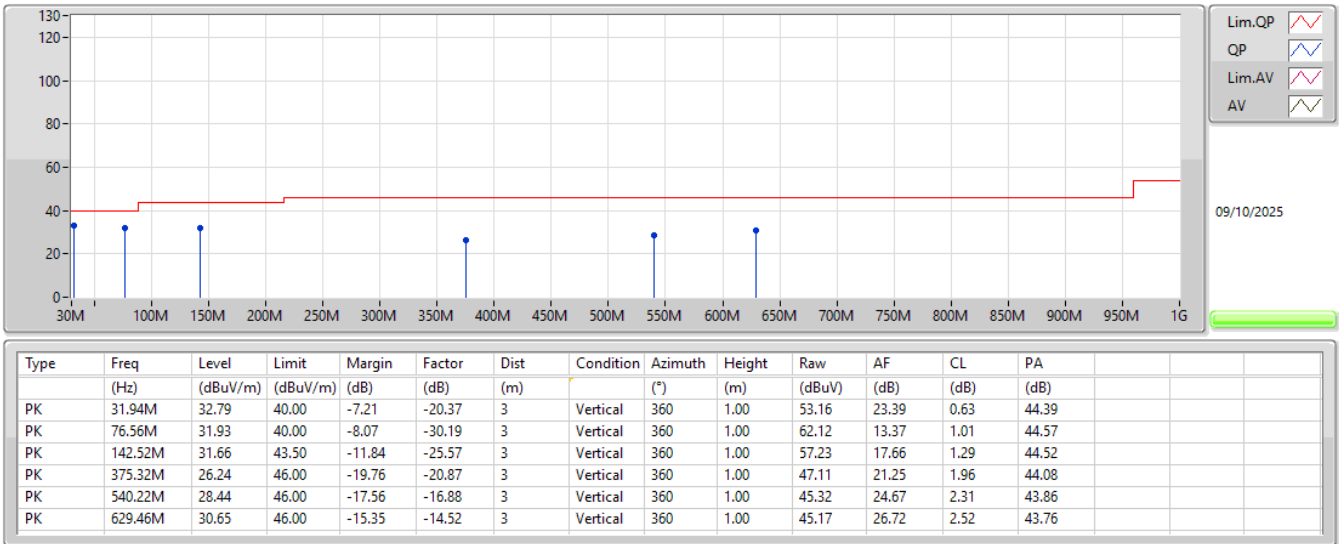
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	31.94M	32.79	40.00	-7.21	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2440MHz_Adapter	Pass	PK	31.94M	32.79	40.00	-7.21	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	76.56M	31.93	40.00	-8.07	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	142.52M	31.66	43.50	-11.84	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	375.32M	26.24	46.00	-19.76	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	540.22M	28.44	46.00	-17.56	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	629.46M	30.65	46.00	-15.35	3	Vertical	360	1.00
2440MHz_Adapter	Pass	PK	76.56M	25.31	40.00	-14.69	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	105.66M	27.99	43.50	-15.51	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	183.26M	27.38	43.50	-16.12	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	375.32M	29.68	46.00	-16.32	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	540.22M	26.30	46.00	-19.70	3	Horizontal	0	1.00
2440MHz_Adapter	Pass	PK	627.52M	28.61	46.00	-17.39	3	Horizontal	0	1.00

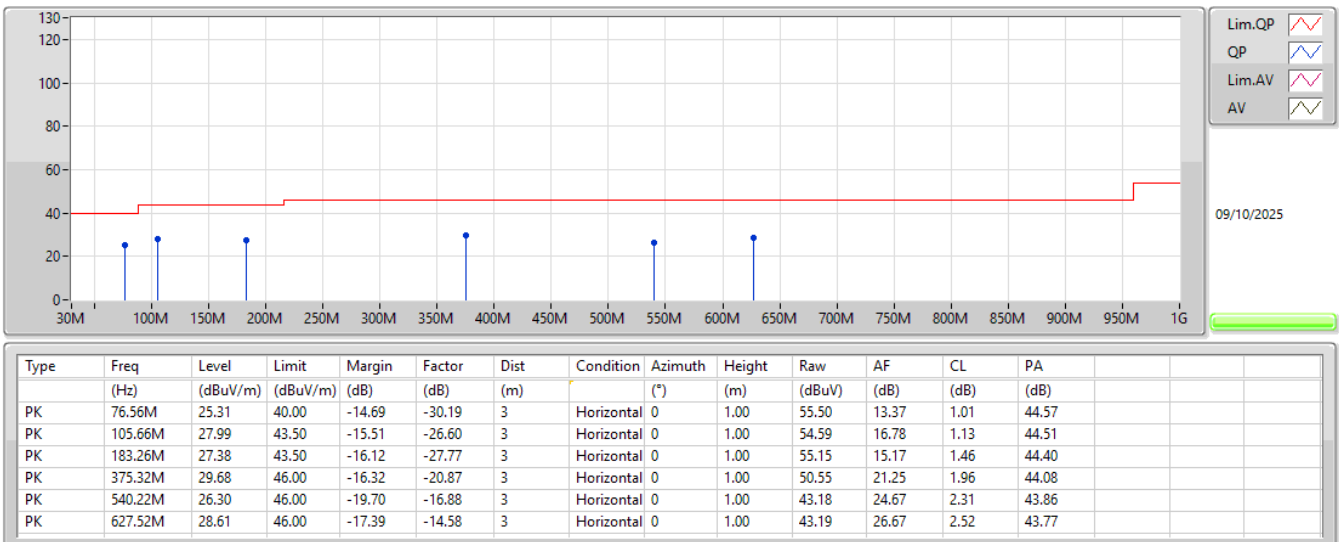
2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Adapter



2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_Adapter





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4936G	46.09	54.00	-7.91	3	Vertical	194	1.01
BT-LE(2Mbps)	Pass	AV	2.4856G	46.33	54.00	-7.67	3	Vertical	194	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_TX	Pass	AV	2.3888G	45.06	54.00	-8.94	3	Vertical	266	1.00
2402MHz_TX	Pass	AV	2.402G	100.01	Inf	-Inf	3	Vertical	266	1.00
2402MHz_TX	Pass	PK	2.3582G	58.97	74.00	-15.03	3	Vertical	266	1.00
2402MHz_TX	Pass	PK	2.4022G	101.24	Inf	-Inf	3	Vertical	266	1.00
2402MHz_TX	Pass	AV	4.80408G	31.04	54.00	-22.96	3	Vertical	189	1.50
2402MHz_TX	Pass	PK	4.80476G	43.64	74.00	-30.36	3	Vertical	189	1.50
2402MHz_TX	Pass	AV	4.80404G	28.26	54.00	-25.74	3	Horizontal	246	2.74
2402MHz_TX	Pass	PK	4.80832G	41.90	74.00	-32.10	3	Horizontal	246	2.74
2440MHz_TX	Pass	AV	2.34G	45.01	54.00	-8.99	3	Vertical	194	1.01
2440MHz_TX	Pass	AV	2.44G	100.90	Inf	-Inf	3	Vertical	194	1.01
2440MHz_TX	Pass	AV	2.4936G	46.09	54.00	-7.91	3	Vertical	194	1.01
2440MHz_TX	Pass	PK	2.3444G	58.47	74.00	-15.53	3	Vertical	194	1.01
2440MHz_TX	Pass	PK	2.4396G	102.07	Inf	-Inf	3	Vertical	194	1.01
2440MHz_TX	Pass	PK	2.4956G	58.96	74.00	-15.04	3	Vertical	194	1.01
2440MHz_TX	Pass	AV	4.88007G	34.07	54.00	-19.93	3	Vertical	143	1.50
2440MHz_TX	Pass	AV	7.31654G	34.12	54.00	-19.88	3	Vertical	47	1.50
2440MHz_TX	Pass	PK	4.88051G	45.55	74.00	-28.45	3	Vertical	143	1.50
2440MHz_TX	Pass	PK	7.32168G	47.13	74.00	-26.87	3	Vertical	47	1.50
2440MHz_TX	Pass	AV	4.87962G	29.45	54.00	-24.55	3	Horizontal	142	1.09
2440MHz_TX	Pass	AV	7.31644G	34.03	54.00	-19.97	3	Horizontal	159	1.50
2440MHz_TX	Pass	PK	4.88022G	42.14	74.00	-31.86	3	Horizontal	142	1.09
2440MHz_TX	Pass	PK	7.31588G	47.26	74.00	-26.74	3	Horizontal	159	1.50
2480MHz_TX	Pass	AV	2.48G	101.08	Inf	-Inf	3	Vertical	193	1.00
2480MHz_TX	Pass	AV	2.4892G	45.97	54.00	-8.03	3	Vertical	193	1.00
2480MHz_TX	Pass	PK	2.4798G	102.47	Inf	-Inf	3	Vertical	193	1.00
2480MHz_TX	Pass	PK	2.4874G	59.76	74.00	-14.24	3	Vertical	193	1.00
2480MHz_TX	Pass	AV	4.9599G	33.72	54.00	-20.28	3	Vertical	213	1.01
2480MHz_TX	Pass	AV	7.43905G	33.42	54.00	-20.58	3	Vertical	179	1.50
2480MHz_TX	Pass	PK	4.9604G	45.67	74.00	-28.33	3	Vertical	213	1.01
2480MHz_TX	Pass	PK	7.43817G	47.25	74.00	-26.75	3	Vertical	179	1.50
2480MHz_TX	Pass	AV	4.95995G	30.64	54.00	-23.36	3	Horizontal	307	1.00
2480MHz_TX	Pass	AV	7.44041G	33.29	54.00	-20.71	3	Horizontal	14	1.50
2480MHz_TX	Pass	PK	4.95981G	43.91	74.00	-30.09	3	Horizontal	307	1.00
2480MHz_TX	Pass	PK	7.44072G	47.09	74.00	-26.91	3	Horizontal	14	1.50
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3872G	45.25	54.00	-8.75	3	Vertical	195	1.00
2402MHz_TX	Pass	AV	2.402G	99.78	Inf	-Inf	3	Vertical	195	1.00
2402MHz_TX	Pass	PK	2.3756G	58.72	74.00	-15.28	3	Vertical	195	1.00
2402MHz_TX	Pass	PK	2.4024G	103.06	Inf	-Inf	3	Vertical	195	1.00
2402MHz_TX	Pass	AV	4.80489G	30.73	54.00	-23.27	3	Vertical	134	1.08
2402MHz_TX	Pass	PK	4.8028G	43.14	74.00	-30.86	3	Vertical	134	1.08
2402MHz_TX	Pass	PK	4.80462G	42.79	74.00	-31.21	3	Horizontal	19	2.54
2402MHz_TX	Pass	AV	4.80497G	28.57	54.00	-25.43	3	Horizontal	19	2.54
2440MHz_TX	Pass	AV	2.3632G	45.18	54.00	-8.82	3	Vertical	195	1.00
2440MHz_TX	Pass	AV	2.44G	99.41	Inf	-Inf	3	Vertical	195	1.00
2440MHz_TX	Pass	AV	2.484G	46.26	54.00	-7.74	3	Vertical	195	1.00
2440MHz_TX	Pass	PK	2.3624G	58.62	74.00	-15.38	3	Vertical	195	1.00
2440MHz_TX	Pass	PK	2.4396G	102.69	Inf	-Inf	3	Vertical	195	1.00
2440MHz_TX	Pass	PK	2.4964G	59.15	74.00	-14.85	3	Vertical	195	1.00
2440MHz_TX	Pass	AV	4.88082G	31.07	54.00	-22.93	3	Vertical	191	1.01
2440MHz_TX	Pass	AV	7.3157G	34.44	54.00	-19.56	3	Vertical	353	2.10
2440MHz_TX	Pass	PK	4.88106G	43.19	74.00	-30.81	3	Vertical	191	1.01
2440MHz_TX	Pass	PK	7.32004G	47.74	74.00	-26.26	3	Vertical	353	2.10
2440MHz_TX	Pass	AV	4.88068G	29.08	54.00	-24.92	3	Horizontal	240	1.50
2440MHz_TX	Pass	AV	7.32188G	34.47	54.00	-19.53	3	Horizontal	28	1.50
2440MHz_TX	Pass	PK	4.88416G	42.39	74.00	-31.61	3	Horizontal	240	1.50
2440MHz_TX	Pass	PK	7.32398G	48.36	74.00	-25.64	3	Horizontal	28	1.50
2480MHz_TX	Pass	AV	2.48G	99.79	Inf	-Inf	3	Vertical	194	1.00
2480MHz_TX	Pass	AV	2.4856G	46.33	54.00	-7.67	3	Vertical	194	1.00
2480MHz_TX	Pass	PK	2.4794G	103.06	Inf	-Inf	3	Vertical	194	1.00



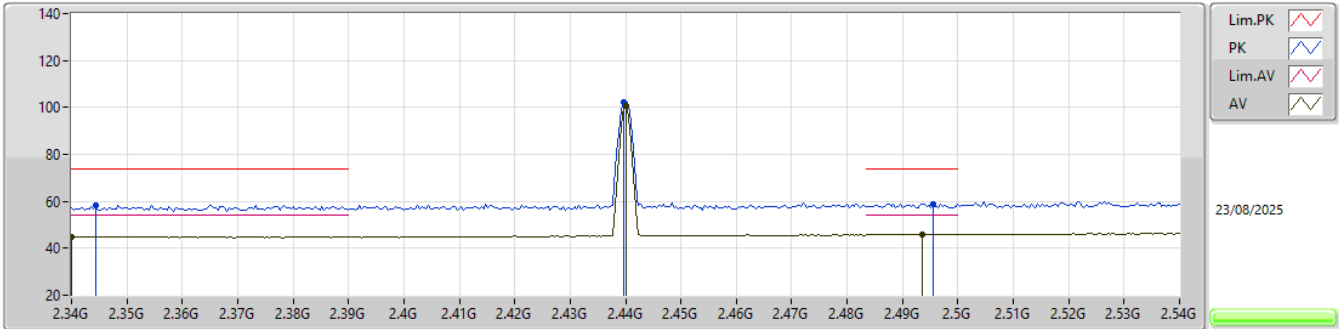
RSE TX above 1GHz_Dipole Antenna

Appendix F.4

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2480MHz_TX	Pass	PK	2.5G	59.57	74.00	-14.43	3	Vertical	194	1.00
2480MHz_TX	Pass	AV	4.96084G	32.08	54.00	-21.92	3	Vertical	136	1.50
2480MHz_TX	Pass	AV	7.44438G	33.79	54.00	-20.21	3	Vertical	12	1.81
2480MHz_TX	Pass	PK	4.96094G	44.23	74.00	-29.77	3	Vertical	136	1.50
2480MHz_TX	Pass	PK	7.43684G	47.52	74.00	-26.48	3	Vertical	12	1.81
2480MHz_TX	Pass	AV	4.96434G	30.10	54.00	-23.90	3	Horizontal	39	1.50
2480MHz_TX	Pass	AV	7.43996G	33.78	54.00	-20.22	3	Horizontal	117	1.50
2480MHz_TX	Pass	PK	4.96294G	43.46	74.00	-30.54	3	Horizontal	39	1.50
2480MHz_TX	Pass	PK	7.43702G	46.82	74.00	-27.18	3	Horizontal	117	1.50

2.4-2.4835GHz_BT-LE(1Mbps)

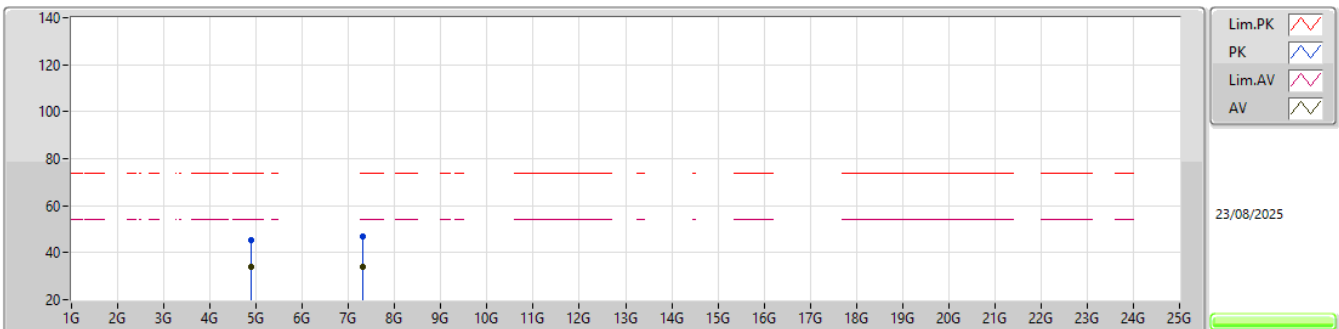
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.34G	45.01	54.00	-8.99	32.02	3	Vertical	194	1.01	12.99	27.30	4.72	-
AV	2.44G	100.90	Inf	-Inf	32.36	3	Vertical	194	1.01	68.54	27.60	4.76	-
AV	2.4936G	46.09	54.00	-7.91	32.89	3	Vertical	194	1.01	13.20	28.00	4.89	-
PK	2.3444G	58.47	74.00	-15.53	32.01	3	Vertical	194	1.01	26.46	27.30	4.71	-
PK	2.4396G	102.07	Inf	-Inf	32.36	3	Vertical	194	1.01	69.71	27.60	4.76	-
PK	2.4956G	58.96	74.00	-15.04	32.89	3	Vertical	194	1.01	26.07	28.00	4.89	-

2.4-2.4835GHz_BT-LE(1Mbps)

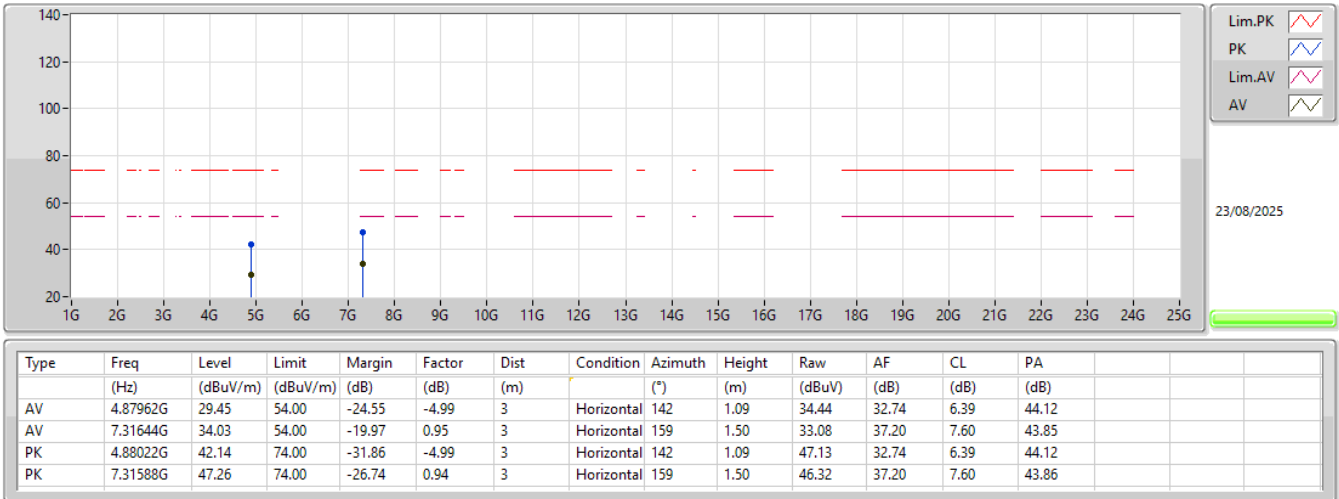
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88007G	34.07	54.00	-19.93	-4.99	3	Vertical	143	1.50	39.06	32.74	6.39	44.12
AV	7.31654G	34.12	54.00	-19.88	0.95	3	Vertical	47	1.50	33.17	37.20	7.60	43.85
PK	4.88051G	45.55	74.00	-28.45	-4.99	3	Vertical	143	1.50	50.54	32.74	6.39	44.12
PK	7.32168G	47.13	74.00	-26.87	0.95	3	Vertical	47	1.50	46.18	37.20	7.60	43.85

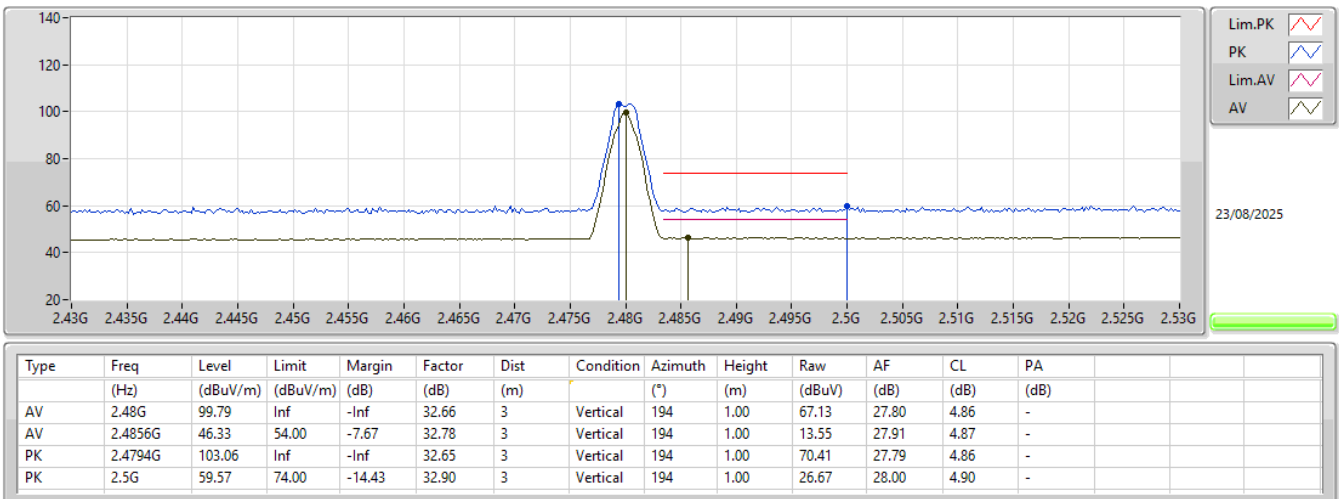
2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX



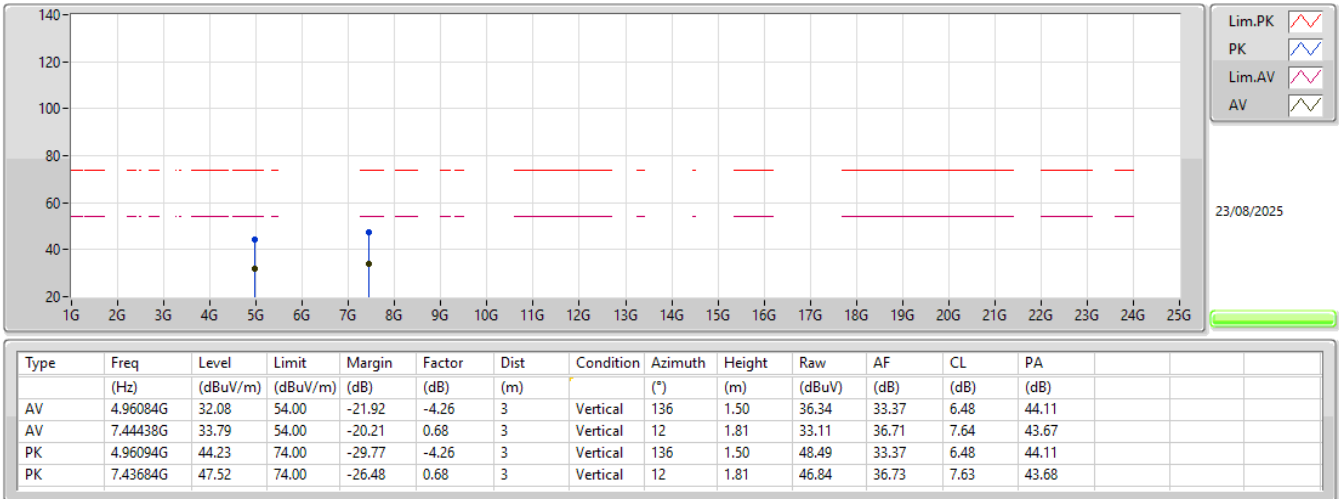
2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

