

Testing Laboratory
3787

RADIO TEST REPORT

FCC ID : HEDEAP105
Equipment : Wi-Fi 7 Access Point
Brand Name : Edgecore
Model Name : EAP105XYYYZ
(Please refer to section 1.1.5 for detailed information)
Applicant : Accton Technology Corporation
No. 1, Zhihui 1st Rd., Zhubei City , Hsinchu County 302
Taiwan
Manufacturer : Accton Technology Corporation
No. 1, Zhihui 1st Rd., Zhubei City , Hsinchu County 302
Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 20, 2024, and testing was started from Oct. 15, 2024 and completed on Jan. 02, 2025. We, Sporton International Inc. Hsinchu 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. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	9
1.3 Testing Location Information	9
1.4 Measurement Uncertainty	10
2 Test Configuration of EUT	11
2.1 Test Channel Mode	11
2.2 The Worst Case Measurement Configuration	11
2.3 EUT Operation during Test	12
2.4 Accessories	13
2.5 Support Equipment.....	13
2.6 Test Setup Diagram	14
3 Transmitter Test Result	16
3.1 AC Power-line Conducted Emissions	16
3.2 DTS Bandwidth.....	18
3.3 Maximum Conducted Output Power	19
3.4 Power Spectral Density	22
3.5 Emissions in Non-restricted Frequency Bands	24
3.6 Emissions in Restricted Frequency Bands.....	25
4 Test Equipment and Calibration Data	29
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of DTS Bandwidth	
Appendix C. Test Results of Maximum Conducted Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Emissions in Non-restricted Frequency Bands	
Appendix F. Test Results of Emissions in Restricted Frequency Bands	
Appendix G. Test Photos	
Photographs of EUT v01	



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_6 Ver1.3



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	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Cathy Chiu



1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch	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 modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port				Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz	6GHz	Bluetooth					
1	2	-	-	-	ACCTON Technology Corporation	KG738-125B13U1S	PIFA Antenna	I-PEX	5.31
2	1	-	-	-	ACCTON Technology Corporation	KG738-80W13U1S	PIFA Antenna	I-PEX	5.25
3	-	2	-	-	ACCTON Technology Corporation	KG739-165G13U1S	PIFA Antenna	I-PEX	6.42
4	-	1	-	-	ACCTON Technology Corporation	KG739-100H13U1S	PIFA Antenna	I-PEX	6.76
5	-	-	1	-	ACCTON Technology Corporation	KG737-165A13U1S	PIFA Antenna	I-PEX	6.88
6	-	-	2	-	ACCTON Technology Corporation	KG737-115Y13U1S	PIFA Antenna	I-PEX	6.83
7	-	-	-	1	ACCTON Technology Corporation	GT128V007S-001	CHIP Antenna	N/A	3.71

Note 1: The above information was declared by manufacturer.

Note 2: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

$$2.4G \ G1 = 5.31 \text{ dBi} ; G2 = 5.25 \text{ dBi} ;$$

$$5G \text{ UNII-1} \ G1 = 6.42 \text{ dBi} ; G2 = 6.76 \text{ dBi} ;$$

$$5G \text{ UNII-2A} \ G1 = 6.42 \text{ dBi} ; G2 = 6.76 \text{ dBi} ;$$

$$5G \text{ UNII-2C} \ G1 = 6.42 \text{ dBi} ; G2 = 6.76 \text{ dBi} ;$$

$$5G \text{ UNII-3} \ G1 = 6.42 \text{ dBi} ; G2 = 6.76 \text{ dBi} ;$$

$$2.4G \ DG = 8.29 \text{ dBi}$$

$$5G \text{ UNII-1} \ DG = 9.6 \text{ dBi}$$

$$5G \text{ UNII-2A} \ G1 = 9.6 \text{ dBi}$$

$$5G \text{ UNII-2C} \ G1 = 9.6 \text{ dBi}$$

$$5G \text{ UNII-3} \ DG = 9.6 \text{ dBi}$$

For 2.4GHz function:

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

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

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

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For 6GHz function:

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

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For Bluetooth function:

For Bluetooth mode (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.638	1.95	394.312u	3k
BT-LE(2Mbps)	0.315	5.02	629.25u	3k

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE		
Function	☒ Point-to-multipoint	☐ Point-to-point	
Test Software Version	The product has beamforming function for n/VHT/ax/be in 2.4GHz, n/ac/ax/be in 5GHz and ax/be in 6GHz.		
Support Mode	☒ LE 1M PHY: 1 Mb/s		
	☐ LE Coded PHY (S=2): 500 Kb/s		
	☐ LE Coded PHY (S=8): 125 Kb/s		
	☒ LE 2M PHY: 2 Mb/s		

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Equipment Name	Brand Name	Model Name	Description
Wi-Fi 7 Access Point	Edgecore	EAP105XYYYYZ	The difference of "XYYYYZ" would be marketing strategy: X can be symbol "(" or "blank" Y can be "A~Z, a~z, 1~9 or blank and -" Z can be symbol ")" or "blank"

Note 1: From the above models, model: EAP105 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Serway Lee	22.7~24.4 / 62~64	Oct. 21, 2024~ Dec. 28, 2024
Radiated (below 1GHz)	03CH03-CB	Gordon Hung	22.2~22.6 / 59~61	Jan. 02, 2025
Radiated (above 1GHz)	03CH06-CB	Gordon Hung	22.5~22.9 / 58~60	Oct. 15, 2024~ Dec. 27, 2024
AC Conduction	CO02-CB	Ryan Huang	21~22 / 61~62	Oct. 30, 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
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.1 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
BT-LE(1Mbps)
2402MHz
2440MHz
2480MHz
BT-LE(2Mbps)
2402MHz
2440MHz
2480MHz

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	Normal Link
1	EUT + Adapter + type-C cable
2	EUT + PoE
For operating mode 2 is the worst case and it was record in this test report.	

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
After evaluating, and the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT + WLAN 2.4GHz + Adapter + type-C cable
2	EUT + WLAN 5GHz + Adapter + type-C cable
3	EUT + WLAN 6GHz + Adapter + type-C cable
4	EUT + Bluetooth + Adapter + type-C cable
Mode 1 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 will follow this same test mode.	
5	EUT + WLAN 2.4GHz + PoE
For operating mode 5 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
After evaluating, and the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Bluetooth+WLAN 2.4GHz+WLAN 5GHz+WLAN 6GHz
Refer to Sporton Test Report No.: FA431508 for Co-location RF Exposure Evaluation.	

Note: The adapter and PoE below are for measurement only, would not be marketed.

The adapter and PoE information as below:

Support Unit	Brand Name	Model Number
Adapter	j5create	JUP37185
PoE	Cambium	NET-P30-56IN

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories
Bracket*1

2.5 Support Equipment

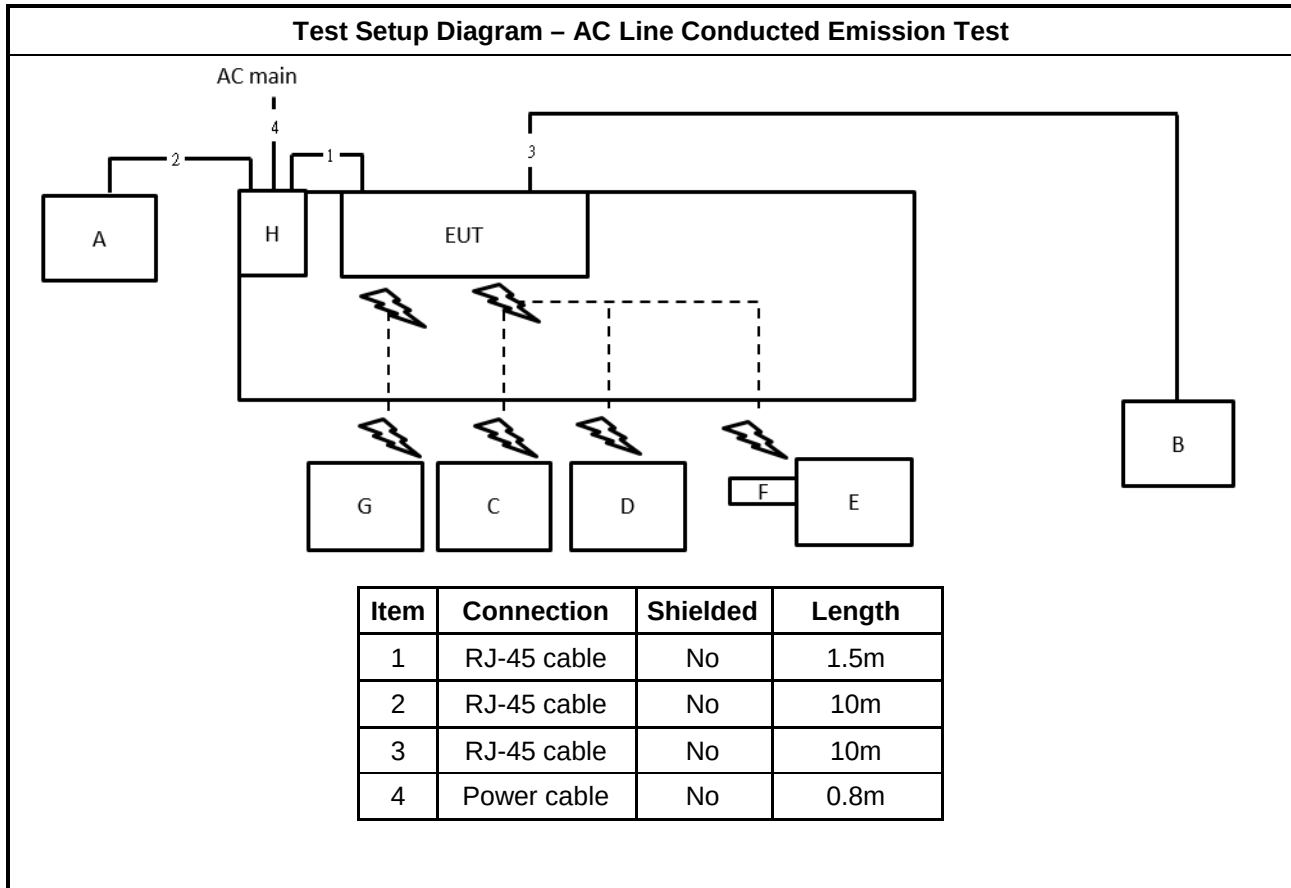
For AC Conduction:

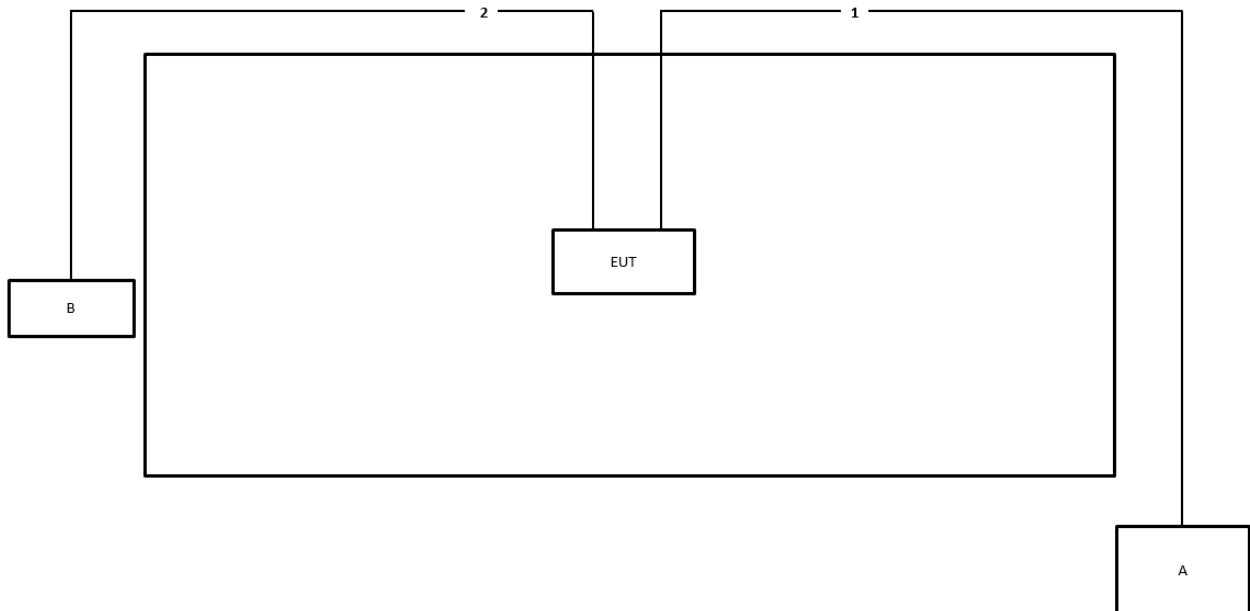
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	5G PoE PC	ASUS	S300TA	NA
B	1G LAN NB	Lenovo	X260	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	6E NB	DELL	E7240	N/A
F	6E Device	INTEL	BE200	PD9BE200NG
G	Smart phone	Samsung	Galaxy J2	A3LSMG532M
H	PoE	Cambium	NET-P30-56IN	N/A

For Radiated and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	Cambium	NET-P30-56IN	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	10m



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.

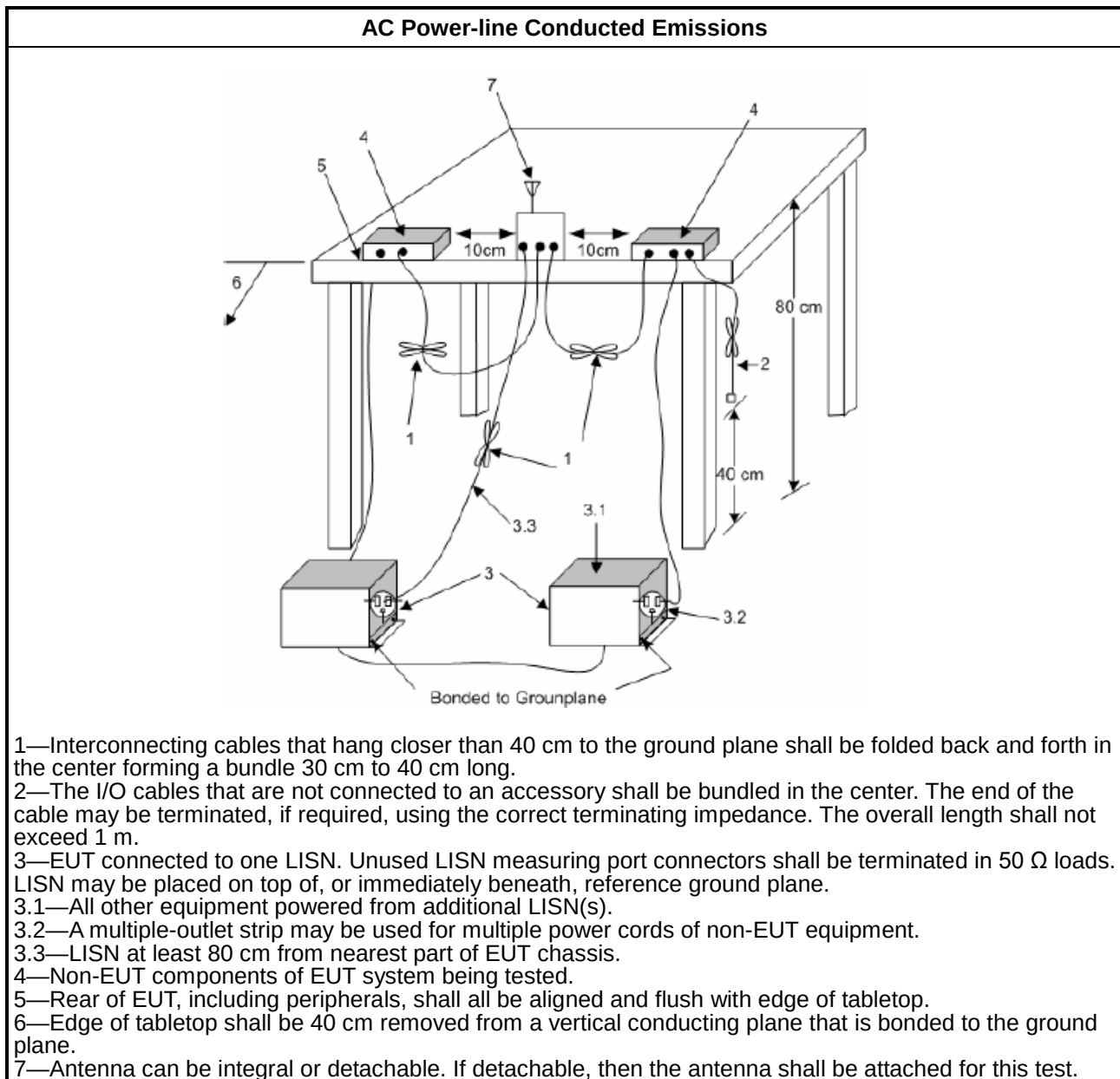
3.1.2 Measuring Instruments

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 for AC power-line conducted emissions.

3.1.4 Test Setup



1.1.1. Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

3.1.5 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.

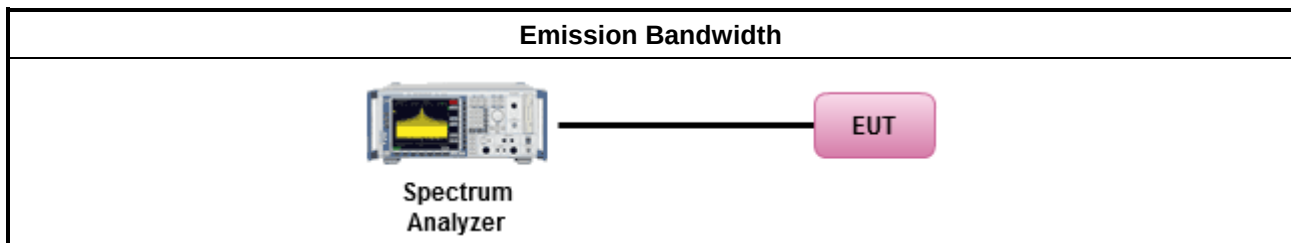
3.2.2 Measuring Instruments

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 FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 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
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

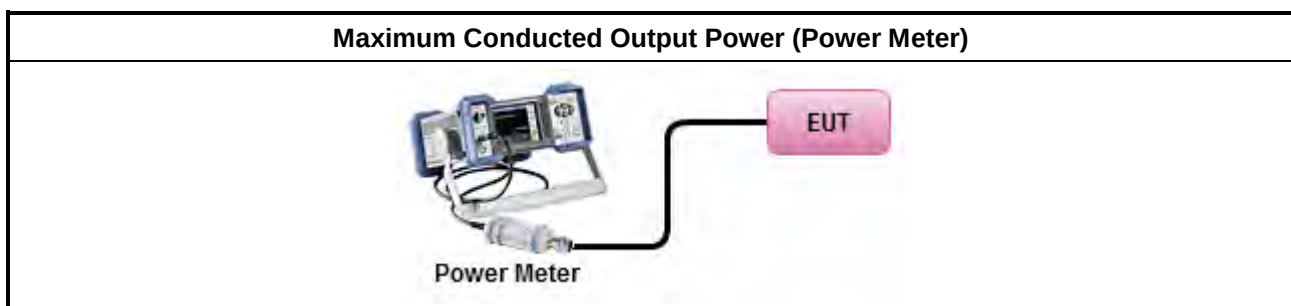
3.3.2 Measuring Instruments

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 FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC 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

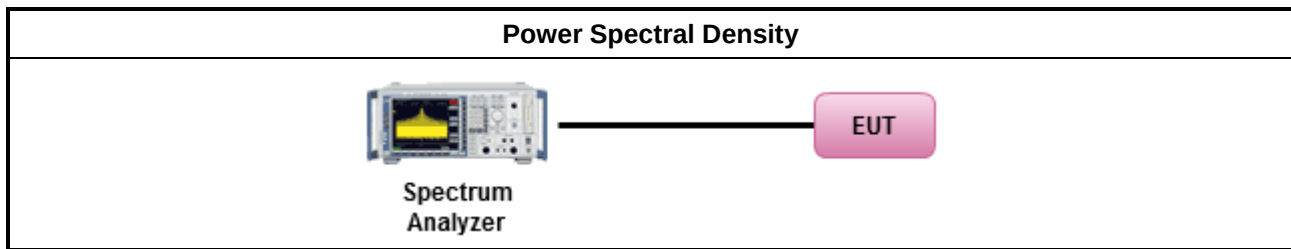
3.4.2 Measuring Instruments

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 FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD. [duty cycle $\geq 98\%$ or external video / power trigger]
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☐	Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add $10 \log(N)$ dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with $10 \log(N)$. Or each transmit chains shall be add $10 \log(N)$ to compared with the limit.

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 (dBc)
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 PSD 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 PSD level.	

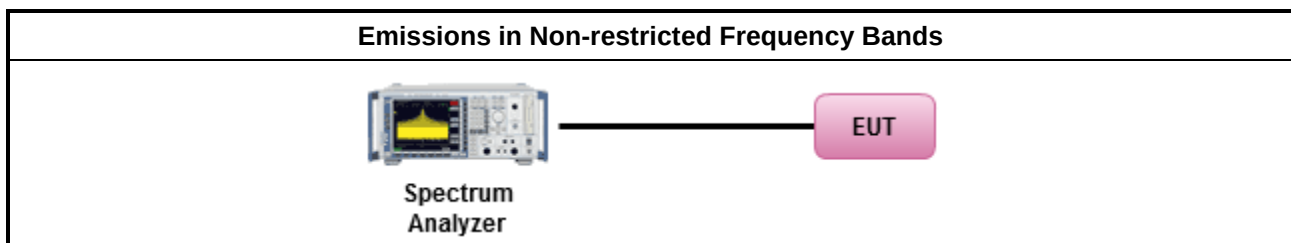
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted 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

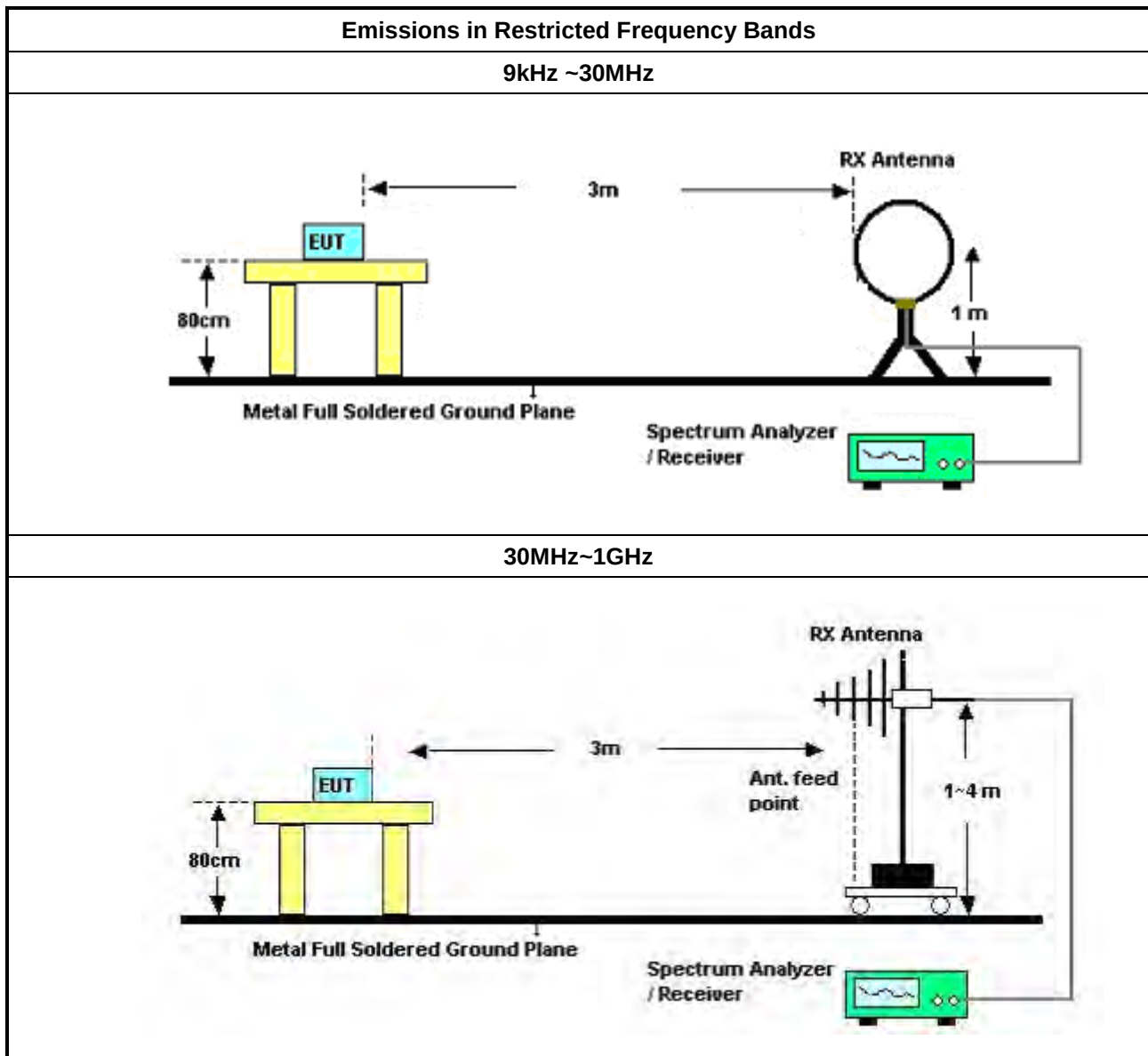
Refer a test equipment and calibration data table in this test report.

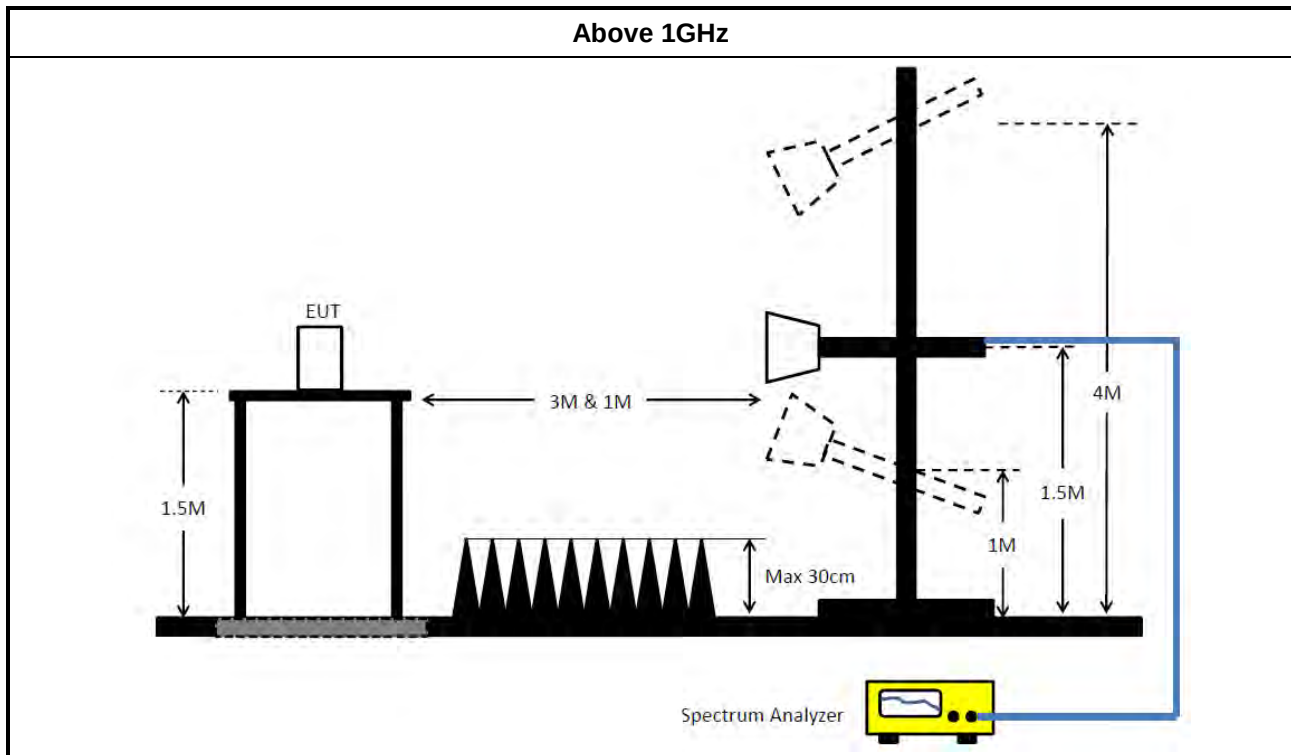


3.6.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 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 FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & c63.10 clause 11.13.1, 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 FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Apr. 15, 2024	Apr. 14, 2025	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 29, 2023	Dec. 28, 2024	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 15, 2024	May 14, 2025	Conduction (CO02-CB)
COND Cable	Woken	Cable	02	0.15MHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Oct. 16, 2024	Oct. 15, 2025	Conduction (CO02-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 16, 2024	Oct. 15, 2025	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 18, 2024	Jan. 17, 2025	Radiation (03CH03-CB)
Bilog Antenna with 6dB Attenuator	Schaffner & EMCI	CBL6112B& N-6-06	2888&AT-N060 5	30MHz ~ 1GHz	Jan. 18, 2024	Jan. 17, 2025	Radiation (03CH03-CB)
Amplifier	SGH	SGH301	20240606-1	30MHz ~ 1GHz	Jun. 04, 2024	Jun. 03, 2025	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 11, 2024	Jun. 10, 2025	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 21, 2024	Oct. 20, 2025	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.8	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 08, 2024	Oct. 07, 2025	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 29, 2024	Jul. 28, 2025	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH06-CB)
Pre-Amplifier	EMCI	EMC12630SE	980383	1GHz ~ 18GHz	Jul. 31, 2024	Jul. 30, 2025	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH1840	20230109-3	18~40GHz	Jan. 12, 2024	Jan. 11, 2025	Radiation (03CH06-CB)
Signal analyzer	R&S	FSV3044	101667	9kHz~44GHz	Aug. 20, 2024	Aug. 19, 2025	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.18	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2024	May 26, 2025	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~18 GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
Cable 9k-18G	Woken	RG402	Cable-95	9 kHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Mar. 01, 2024	Feb. 28, 2025	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	MY45100745	50MHz~18GHz	Jul. 12, 2024	Jul. 11, 2025	Conducted (TH01-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.18	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.



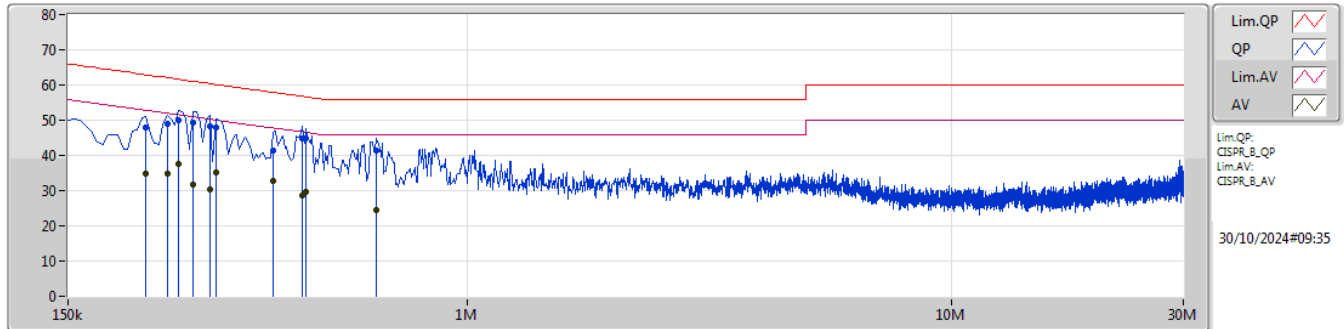
Conducted Emissions at Powerline

Appendix A

Summary

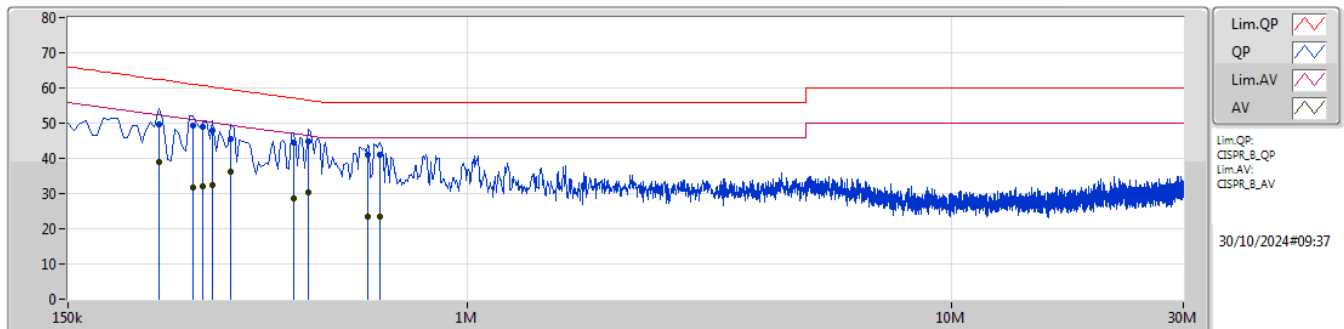
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	271.5k	49.36	61.07	-11.71	Neutral

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	217.5k	47.78	62.92	-15.14	10.09	Line	-	37.69	0.05	0.02	10.02						
AV	217.5k	34.79	52.92	-18.13	10.09	Line	-	24.70	0.05	0.02	10.02						
QP	240k	48.89	62.10	-13.21	10.10	Line	-	38.79	0.05	0.03	10.02						
AV	240k	34.74	52.10	-17.36	10.10	Line	-	24.64	0.05	0.03	10.02						
QP	253.5k	49.83	61.64	-11.81	10.10	Line	-	39.73	0.05	0.03	10.02						
AV	253.5k	37.59	51.64	-14.05	10.10	Line	-	27.49	0.05	0.03	10.02						
QP	271.5k	49.35	61.07	-11.72	10.10	Line	"Worst"	39.25	0.05	0.03	10.02						
AV	271.5k	31.78	51.07	-19.29	10.10	Line	-	21.68	0.05	0.03	10.02						
QP	294k	48.18	60.42	-12.24	10.11	Line	-	38.07	0.05	0.03	10.03						
AV	294k	30.43	50.42	-19.99	10.11	Line	-	20.32	0.05	0.03	10.03						
QP	303k	47.82	60.17	-12.35	10.11	Line	-	37.71	0.05	0.03	10.03						
AV	303k	35.11	50.17	-15.06	10.11	Line	-	25.00	0.05	0.03	10.03						
QP	397.5k	41.31	57.91	-16.60	10.12	Line	-	31.19	0.05	0.04	10.03						
AV	397.5k	32.65	47.91	-15.26	10.12	Line	-	22.53	0.05	0.04	10.03						
QP	456k	44.72	56.76	-12.04	10.12	Line	-	34.60	0.05	0.04	10.03						
AV	456k	28.49	46.76	-18.27	10.12	Line	-	18.37	0.05	0.04	10.03						
QP	465k	44.72	56.61	-11.89	10.12	Line	-	34.60	0.05	0.04	10.03						
AV	465k	29.82	46.61	-16.79	10.12	Line	-	19.70	0.05	0.04	10.03						
QP	649.5k	41.42	56.00	-14.58	10.12	Line	-	31.30	0.06	0.03	10.03						
AV	649.5k	24.40	46.00	-21.60	10.12	Line	-	14.28	0.06	0.03	10.03						

Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	231k	49.49	62.41	-12.92	10.09	Neutral	-	39.40	0.05	0.02	10.02						
AV	231k	39.01	52.41	-13.40	10.09	Neutral	-	28.92	0.05	0.02	10.02						
QP	271.5k	49.36	61.07	-11.71	10.10	Neutral	"Worst"	39.26	0.05	0.03	10.02						
AV	271.5k	31.77	51.07	-19.30	10.10	Neutral	-	21.67	0.05	0.03	10.02						
QP	285k	48.88	60.67	-11.79	10.11	Neutral	-	38.77	0.05	0.03	10.03						
AV	285k	32.20	50.67	-18.47	10.11	Neutral	-	22.09	0.05	0.03	10.03						
QP	298.5k	47.89	60.28	-12.39	10.11	Neutral	-	37.78	0.05	0.03	10.03						
AV	298.5k	32.43	50.28	-17.85	10.11	Neutral	-	22.32	0.05	0.03	10.03						
QP	325.5k	45.60	59.56	-13.96	10.11	Neutral	-	35.49	0.05	0.03	10.03						
AV	325.5k	36.37	49.56	-13.19	10.11	Neutral	-	26.26	0.05	0.03	10.03						
QP	438k	44.54	57.11	-12.57	10.12	Neutral	-	34.42	0.05	0.04	10.03						
AV	438k	28.45	47.11	-18.66	10.12	Neutral	-	18.33	0.05	0.04	10.03						
QP	469.5k	44.73	56.52	-11.79	10.12	Neutral	-	34.61	0.05	0.04	10.03						
AV	469.5k	30.33	46.52	-16.19	10.12	Neutral	-	20.21	0.05	0.04	10.03						
QP	622.5k	41.18	56.00	-14.82	10.11	Neutral	-	31.07	0.05	0.03	10.03						
AV	622.5k	23.60	46.00	-22.40	10.11	Neutral	-	13.49	0.05	0.03	10.03						
QP	658.5k	41.10	56.00	-14.90	10.12	Neutral	-	30.98	0.06	0.03	10.03						
AV	658.5k	23.62	46.00	-22.38	10.12	Neutral	-	13.50	0.06	0.03	10.03						

**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)	701.25k	1.047M	1M05F1D	621.25k	1.038M
BT-LE(2Mbps)	1.013M	2.079M	2M08F1D	752.5k	2.039M

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

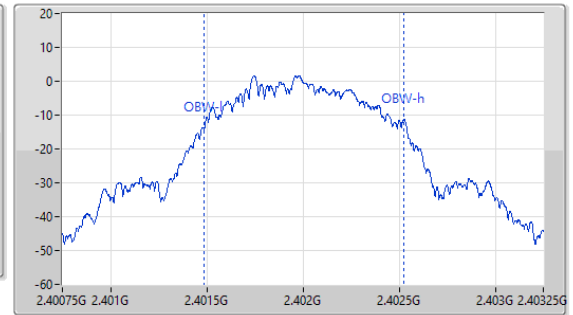
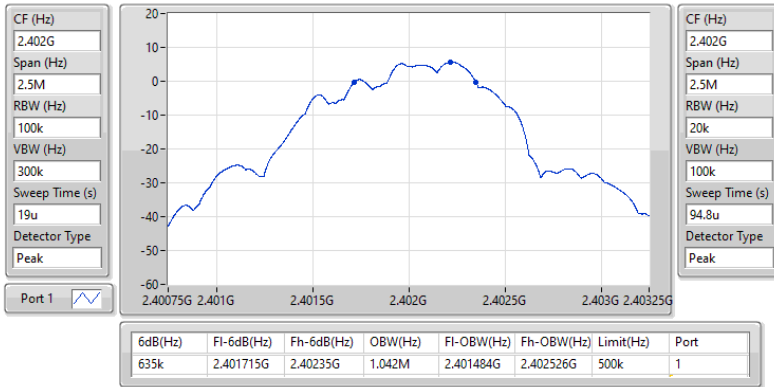
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	635k	1.042M
2440MHz	Pass	500k	701.25k	1.047M
2480MHz	Pass	500k	621.25k	1.038M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.013M	2.079M
2440MHz	Pass	500k	885k	2.076M
2480MHz	Pass	500k	752.5k	2.039M

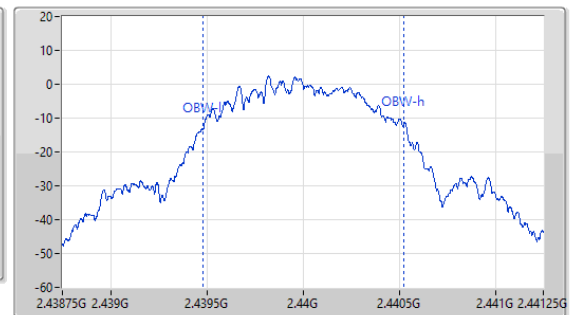
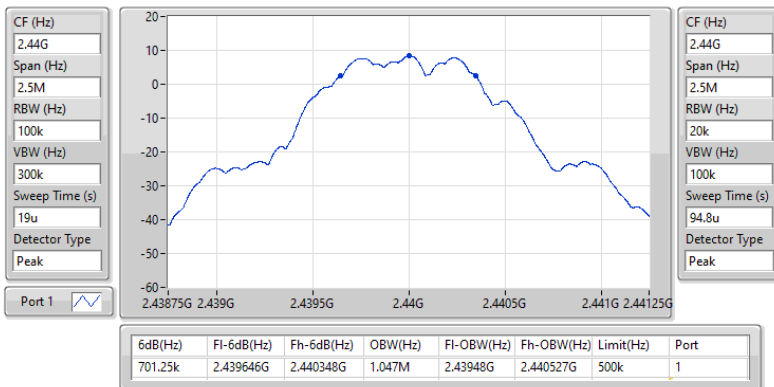
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

22/10/2024

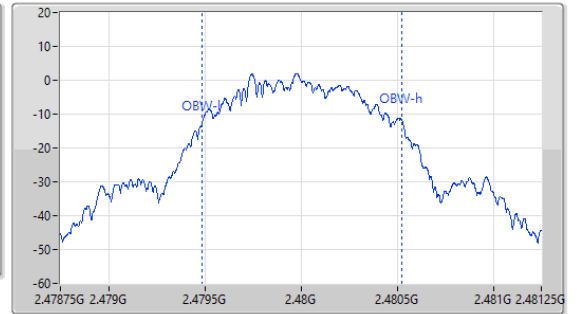
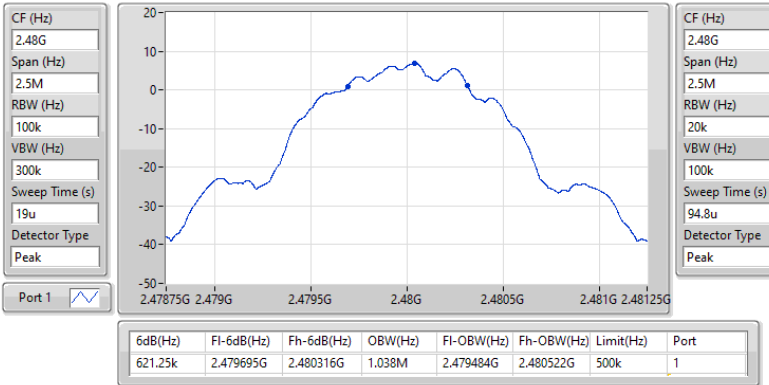

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2440MHz

22/10/2024

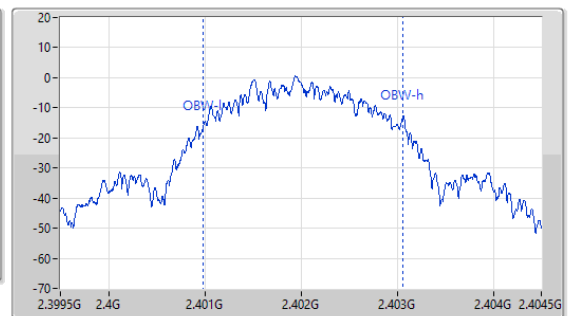
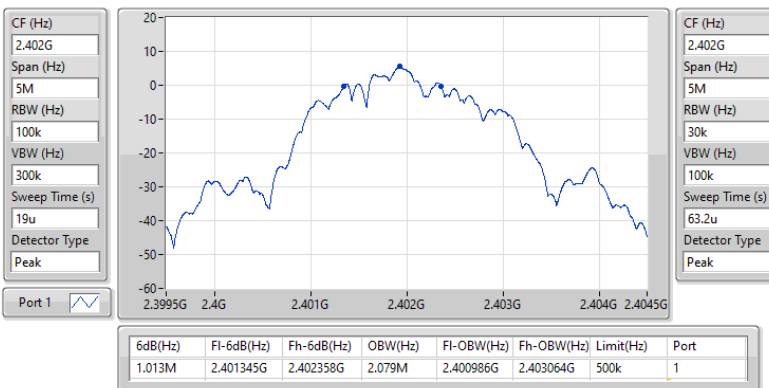


2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2480MHz

22/10/2024

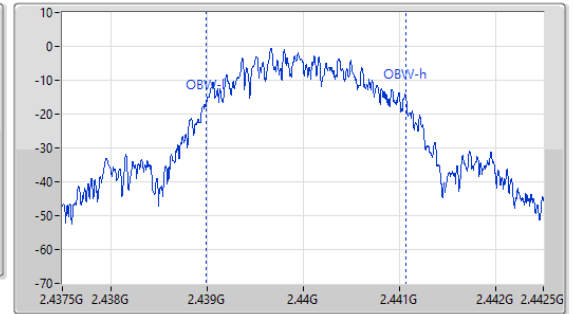
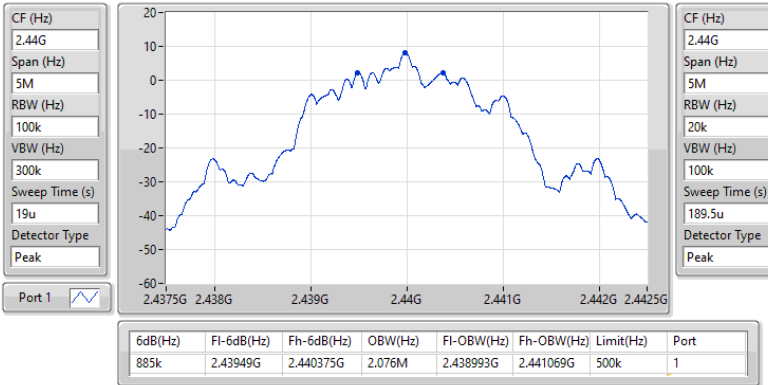

2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2402MHz

22/10/2024

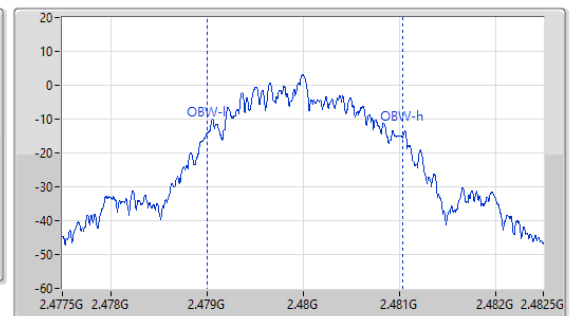
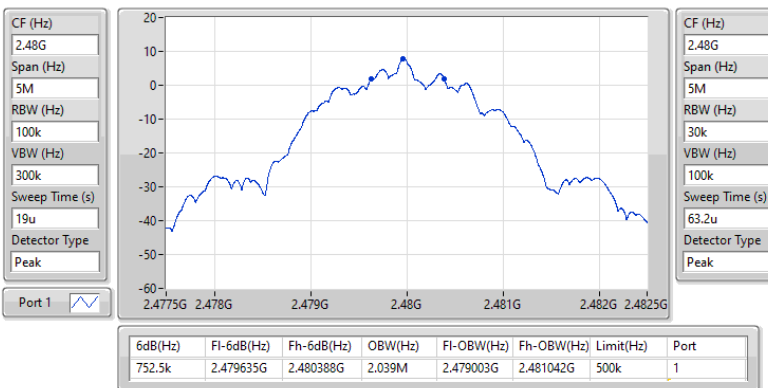


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2440MHz

22/10/2024


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

22/10/2024





Average Power-DTS

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	9.00	0.00794
BT-LE(2Mbps)	8.88	0.00773



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.71	8.31	30.00
2440MHz	Pass	3.71	9.00	30.00
2480MHz	Pass	3.71	8.62	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.71	8.12	30.00
2440MHz	Pass	3.71	8.88	30.00
2480MHz	Pass	3.71	8.51	30.00

DG = Directional Gain; Port X = Port X output power



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-5.98
BT-LE(2Mbps)	-7.20

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.71	-6.63	8.00
2440MHz	Pass	3.71	-5.98	8.00
2480MHz	Pass	3.71	-6.38	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.71	-7.85	8.00
2440MHz	Pass	3.71	-7.20	8.00
2480MHz	Pass	3.71	-7.62	8.00

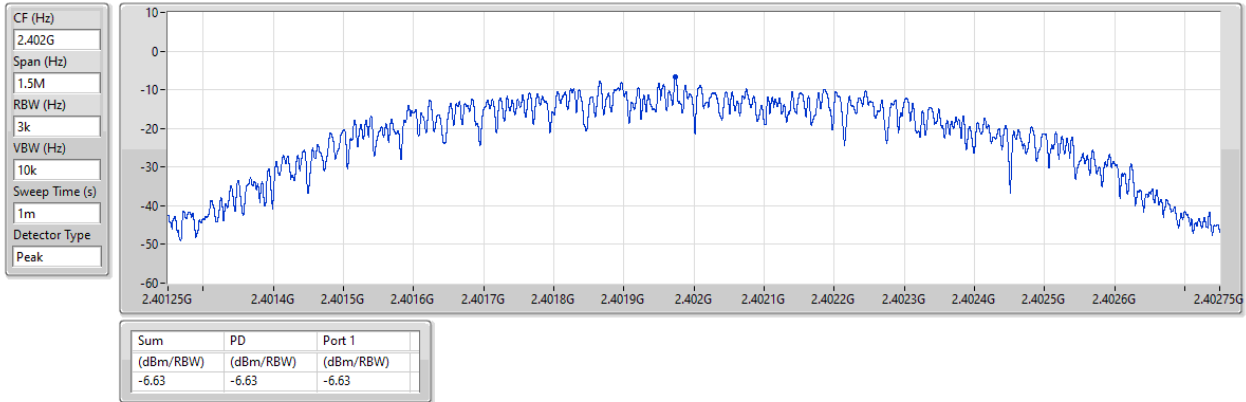
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

22/10/2024

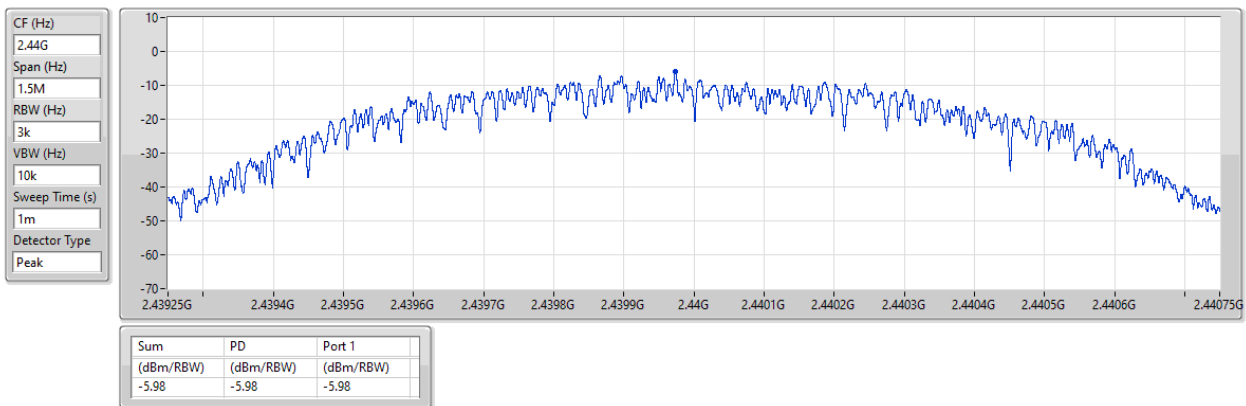


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

22/10/2024

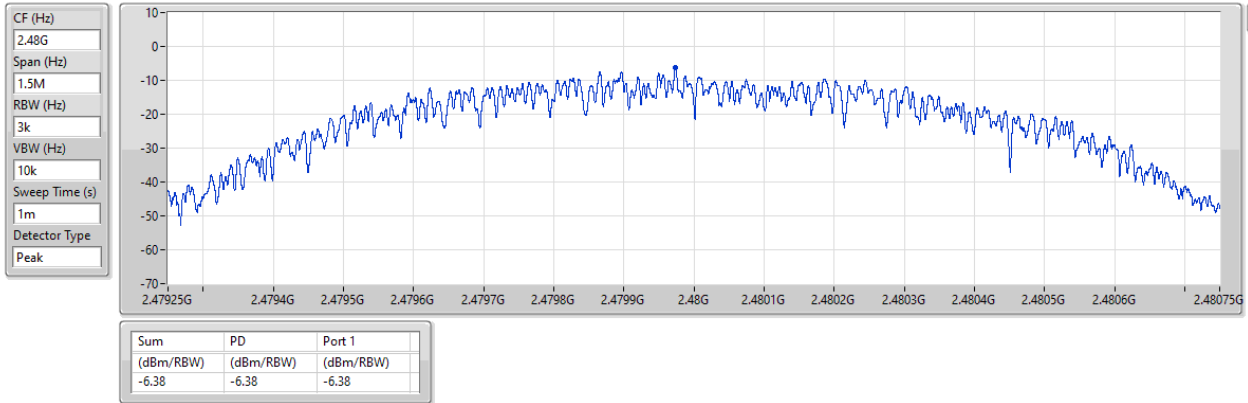


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2480MHz

22/10/2024

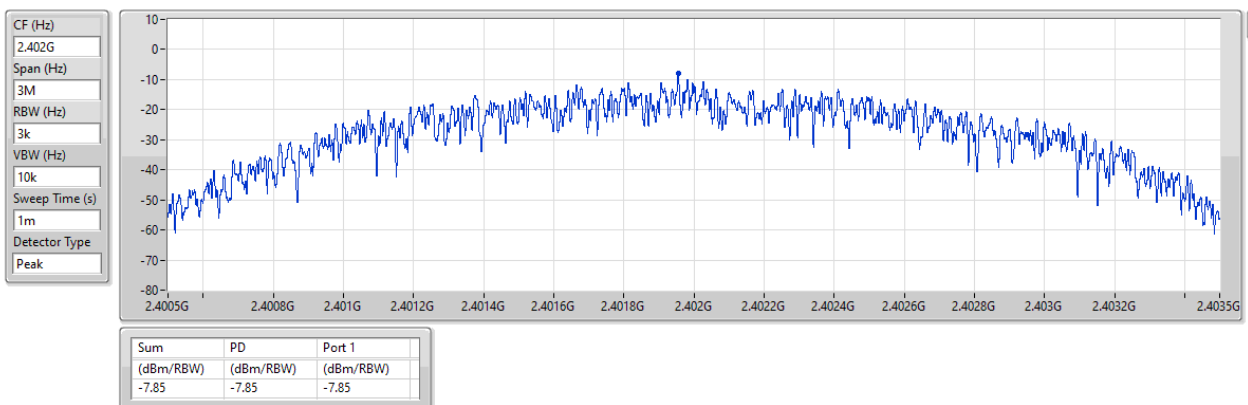


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

22/10/2024

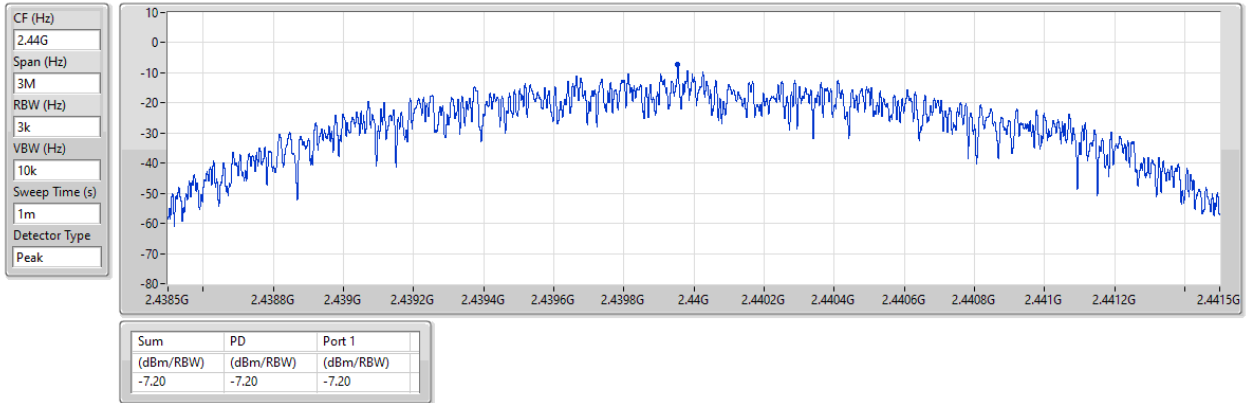


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

22/10/2024

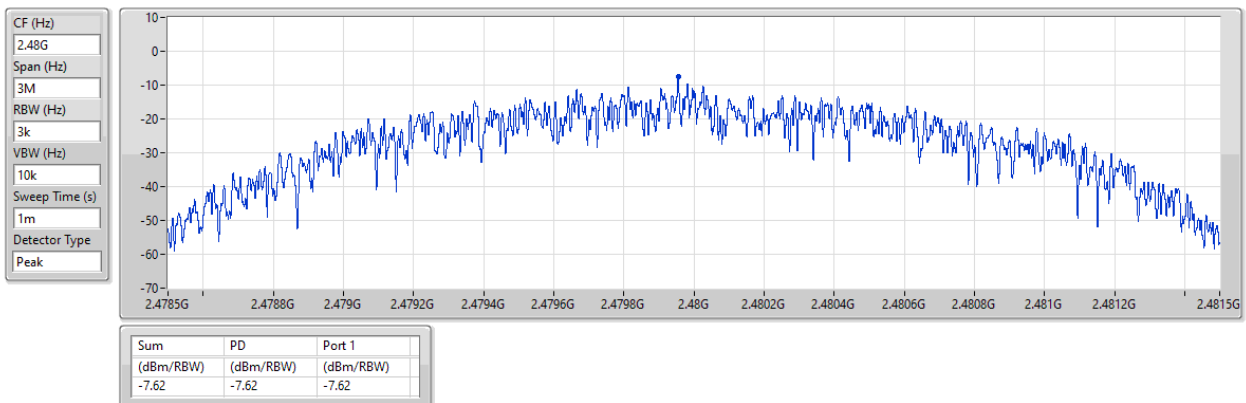


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2480MHz

22/10/2024



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	2.44008G	8.71	-21.29	944.15M	-51.28	2.4G	-43.83	2.4G	-45.03	2.50322G	-50.54	16.43727G	-41.92	1
BT-LE(2Mbps)	Pass	2.44008G	8.62	-21.38	937.1M	-50.91	2.4G	-24.16	2.4G	-25.86	2.5005G	-50.98	16.41759G	-42.26	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	2.44008G	8.71	-21.29	944.15M	-51.28	2.4G	-43.83	2.4G	-45.03	2.50322G	-50.54	16.43727G	-41.92	1
2440MHz	Pass	2.44008G	8.71	-21.29	585.78M	-51.84	2.39172G	-50.91	2.4G	-54.58	2.50274G	-50.93	16.2348G	-42.13	1
2480MHz	Pass	2.44008G	8.71	-21.29	883.05M	-51.76	2.39172G	-51.06	2.4G	-53.80	2.5031G	-50.81	24.55007G	-42.47	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.44008G	8.62	-21.38	937.1M	-50.91	2.4G	-24.16	2.4G	-25.86	2.5005G	-50.98	16.41759G	-42.26	1
2440MHz	Pass	2.44008G	8.62	-21.38	601.05M	-51.71	2.39204G	-50.54	2.4G	-52.99	2.50194G	-51.41	24.57819G	-42.14	1
2480MHz	Pass	2.44008G	8.62	-21.38	890.1M	-51.49	2.39284G	-51.22	2.4G	-53.50	2.50306G	-50.49	16.81127G	-40.81	1

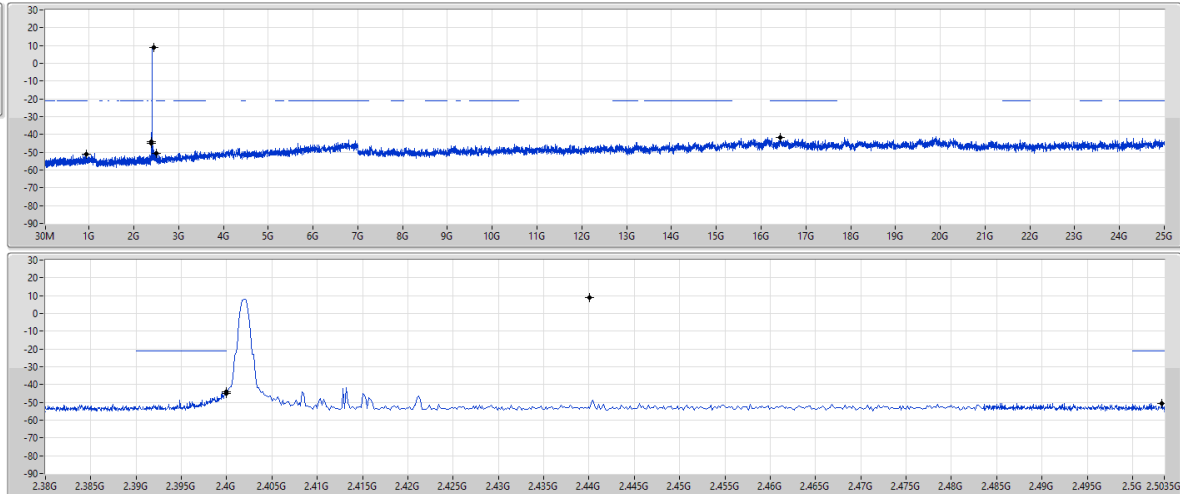
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

22/10/2024

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44008G	8.71	-21.29	944.15M	-51.28	2.4G	-43.83	2.4G	-45.03	2.50322G	-50.54	16.43727G	-41.92	1

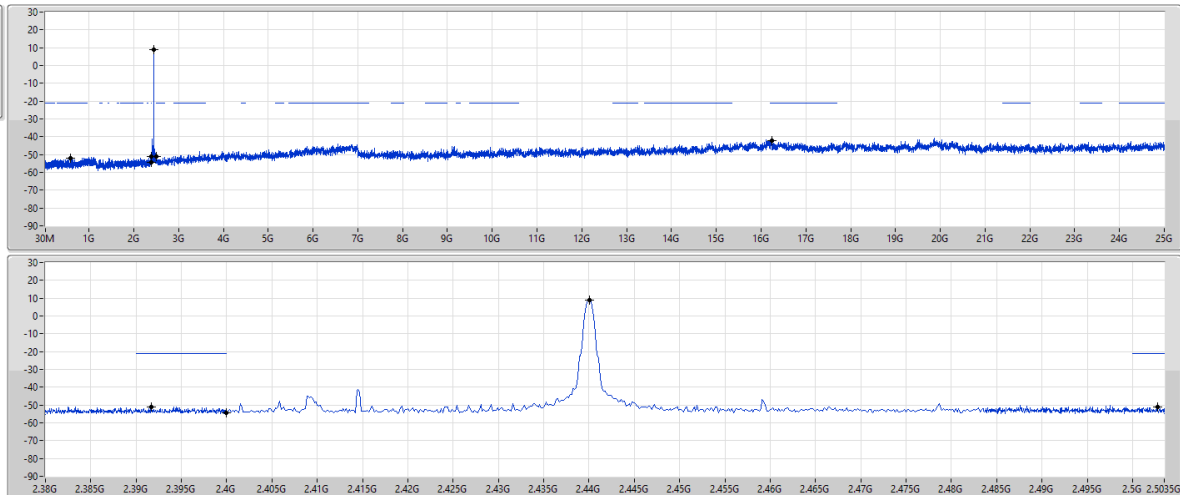
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2440MHz

22/10/2024

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44008G	8.71	-21.29	585.78M	-51.84	2.39172G	-50.91	2.4G	-54.58	2.50274G	-50.93	16.2348G	-42.13	1

2.4-2.4835GHz_BT-LE(1Mbps)

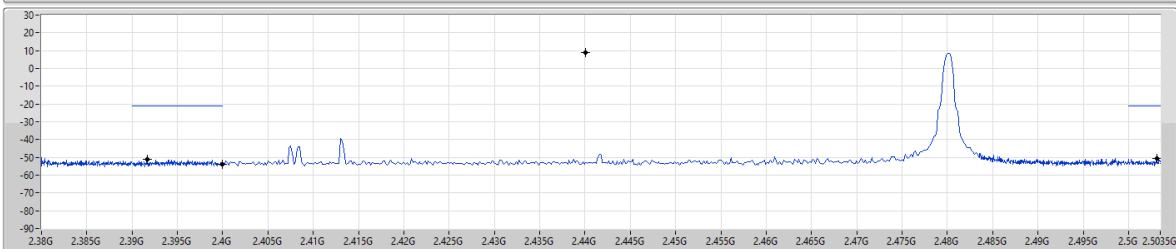
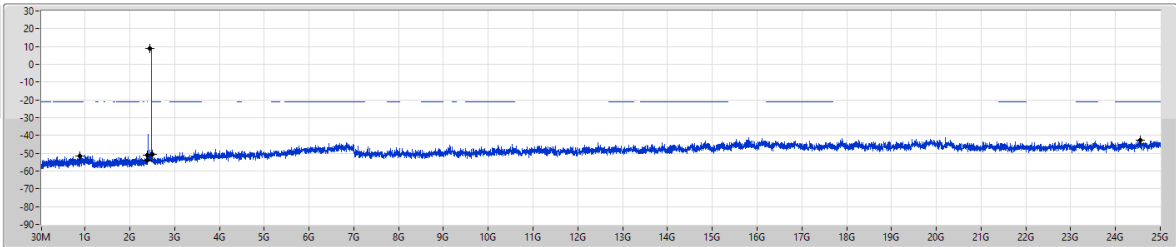
CSEndB-DTS

2480MHz

22/10/2024

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
2.44008G	8.71	-21.29	883.05M	-51.76	2.39172G	-51.06	2.4G	-53.80	2.5031G	-50.81	24.55007G	-42.47	1

2.4-2.4835GHz_BT-LE(2Mbps)

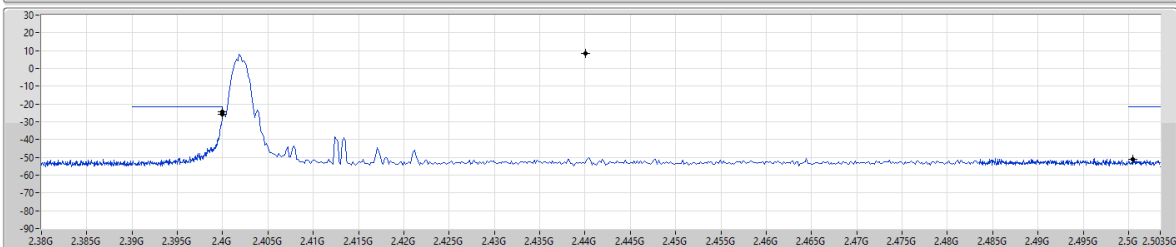
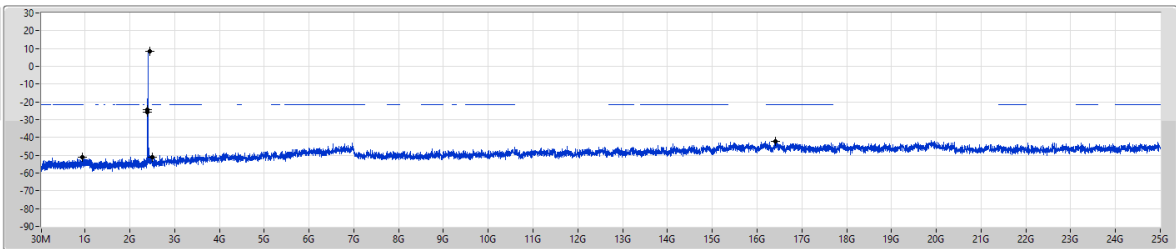
CSEndB-DTS

2402MHz

22/10/2024

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

Port 1



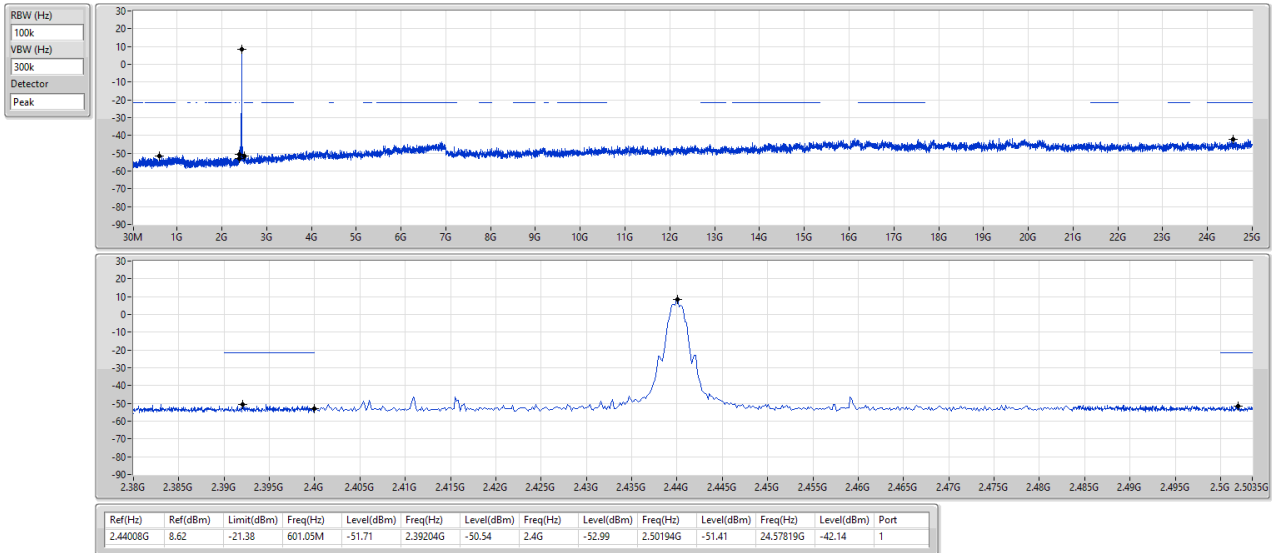
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44008G	8.62	-21.38	937.1M	-50.91	2.4G	-24.16	2.4G	-25.86	2.5005G	-50.98	16.41759G	-42.26	1

2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2440MHz

22/10/2024

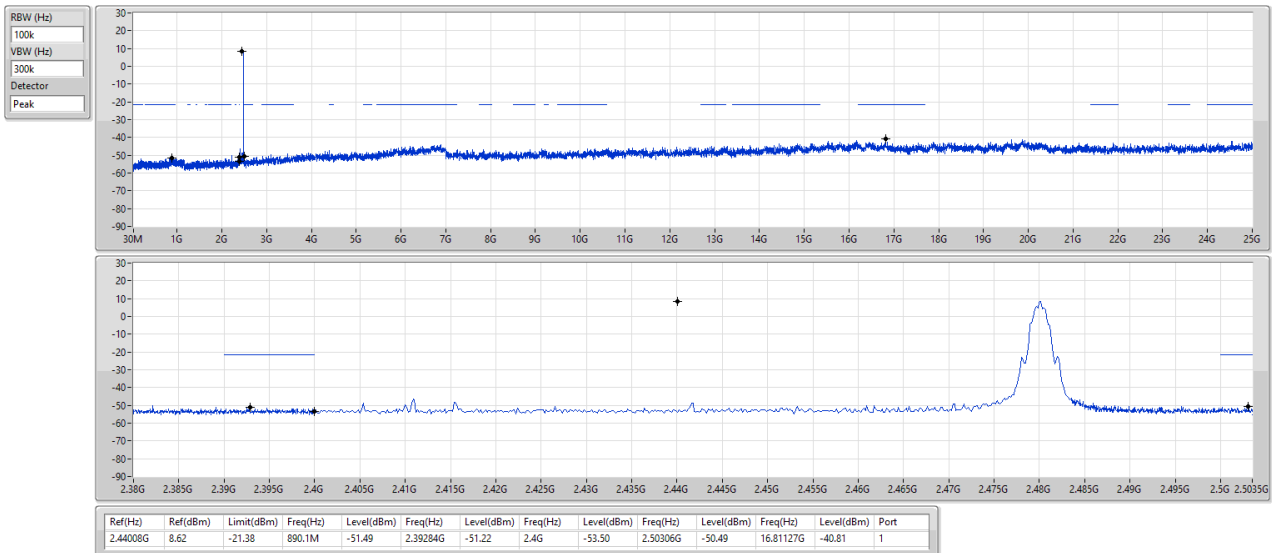


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2480MHz

22/10/2024





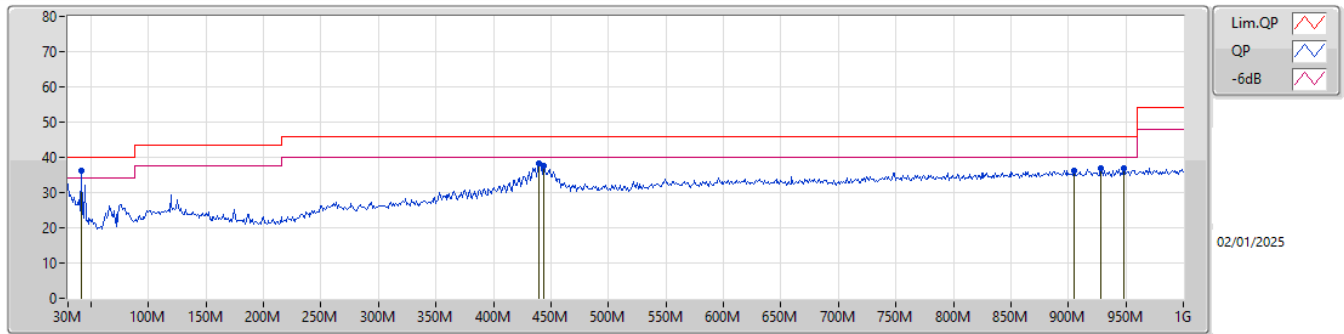
Radiated Emissions below 1GHz

Appendix F.1

Summary

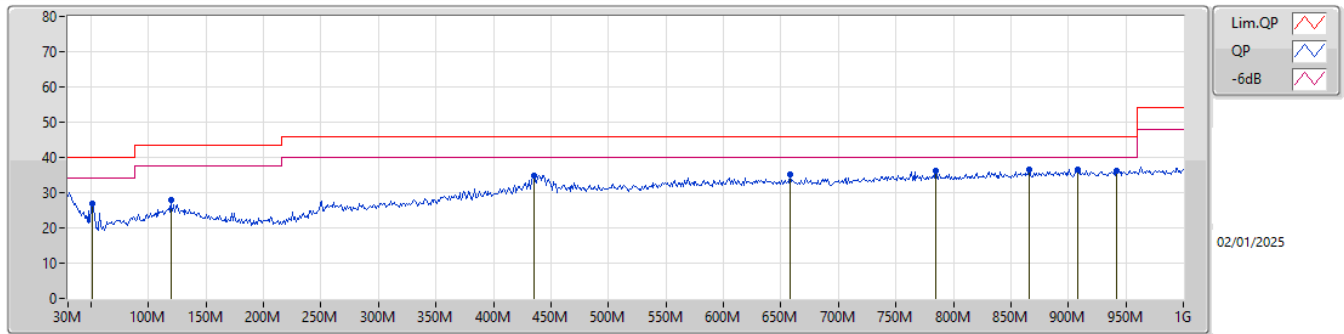
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 5	Pass	PK	41.64M	36.15	40.00	-3.85	Vertical

Mode 5



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	41.64M	36.15	40.00	-3.85	-25.15	3	Vertical	271	1.50	"Worst"	61.30	17.99	1.22	44.36		
PK	439.34M	38.37	46.00	-7.63	-16.79	3	Vertical	115	1.25	-	55.16	22.52	4.55	43.86		
PK	444.19M	37.70	46.00	-8.30	-16.70	3	Vertical	92	1.50	-	54.40	22.60	4.55	43.85		
PK	904.94M	36.33	46.00	-9.67	-10.44	3	Vertical	117	2.00	-	46.77	26.48	6.48	43.40		
PK	928.22M	36.77	46.00	-9.23	-10.40	3	Vertical	80	2.00	-	47.17	26.48	6.54	43.42		
PK	948.59M	36.80	46.00	-9.20	-10.10	3	Vertical	47	1.25	-	46.90	26.76	6.59	43.45		

Mode 5



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	51.34M	26.74	40.00	-13.26	-29.21	3	Horizontal	153	1.50	-	55.95	13.77	1.49	44.47		
PK	119.24M	28.02	43.50	-15.48	-24.02	3	Horizontal	202	1.50	-	52.04	18.17	2.28	44.47		
PK	435.46M	34.66	46.00	-11.34	-16.84	3	Horizontal	0	1.25	-	51.50	22.48	4.55	43.87		
PK	657.59M	35.33	46.00	-10.67	-13.39	3	Horizontal	59	2.00	-	48.72	24.94	5.29	43.62		
PK	784.66M	36.21	46.00	-9.79	-11.64	3	Horizontal	135	2.00	-	47.85	25.80	5.94	43.38		
PK	866.14M	36.38	46.00	-9.62	-10.63	3	Horizontal	160	1.50	-	47.01	26.44	6.31	43.38		
PK	907.85M	36.48	46.00	-9.52	-10.35	3	Horizontal	286	2.00	"Worst"	46.83	26.56	6.49	43.40		
PK	941.8M	36.35	46.00	-9.65	-10.31	3	Horizontal	4	3.00	-	46.66	26.56	6.57	43.44		

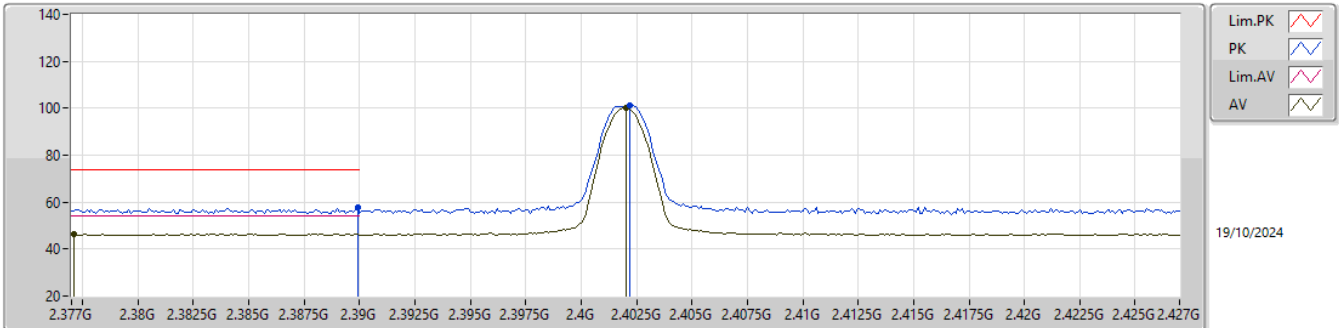


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	AV	2.4835G	52.16	54.00	-1.84	3	Vertical	359.7	2.87	-

2.4-2.4835GHz_BT-LE(1Mbps)

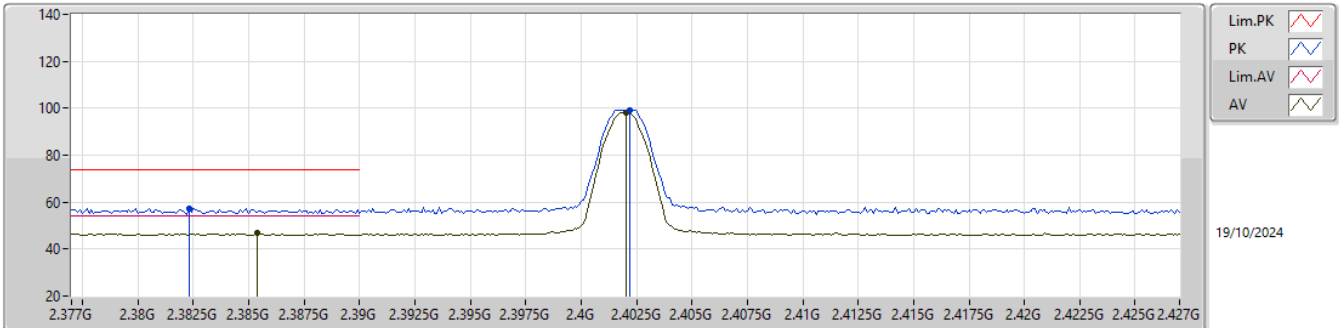
2402MHz_TX


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3899G	57.80	74.00	-16.20	25.58	3	Vertical	181	2.75	-	27.60	4.62	-			
AV	2.3771G	46.56	54.00	-7.44	14.31	3	Vertical	181	2.75	-	27.63	4.62	-			
PK	2.4022G	101.02	Inf	-Inf	68.79	3	Vertical	181	2.75	-	27.60	4.63	-			
AV	2.402G	99.98	Inf	-Inf	67.75	3	Vertical	181	2.75	-	27.60	4.63	-			

2.4-2.4835GHz_BT-LE(1Mbps)

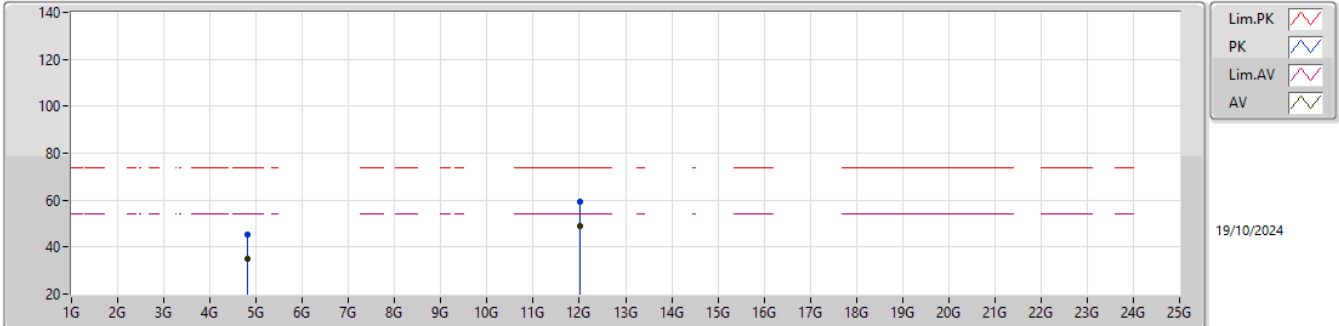
2402MHz_TX


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3823G	57.43	74.00	-16.57	25.21	3	Horizontal	304	2.83	-	27.60	4.62	-				
AV	2.3854G	46.69	54.00	-7.31	14.47	3	Horizontal	304	2.83	-	27.60	4.62	-				
PK	2.4022G	99.29	Inf	-Inf	67.06	3	Horizontal	304	2.83	-	27.60	4.63	-				
AV	2.402G	98.28	Inf	-Inf	66.05	3	Horizontal	304	2.83	-	27.60	4.63	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

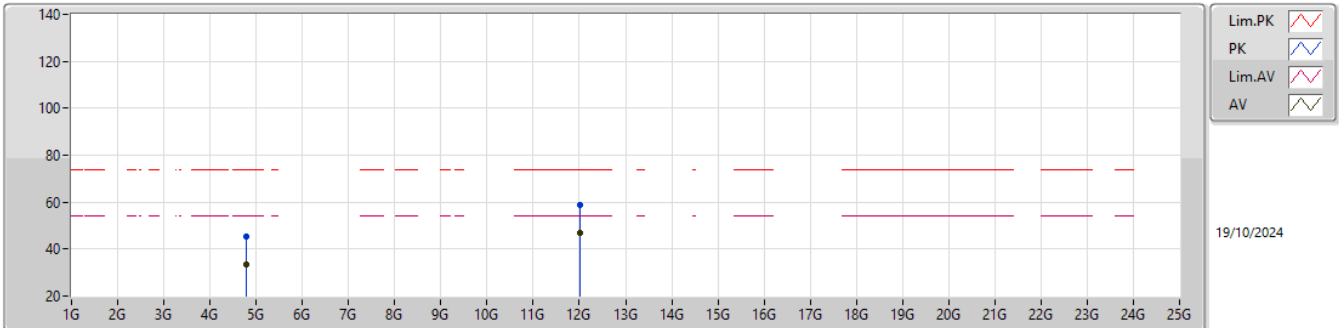


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.80376G	45.40	74.00	-28.60	41.41	3	Vertical	29	2.66	-	31.39	6.55	33.95				
AV	4.80396G	35.03	54.00	-18.97	31.04	3	Vertical	29	2.66	-	31.39	6.55	33.95				
PK	12.00904G	59.32	74.00	-14.68	42.75	3	Vertical	52	2.10	-	39.04	12.08	34.55				
AV	12.00872G	48.87	54.00	-5.13	32.31	3	Vertical	52	2.10	-	39.03	12.08	34.55				

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

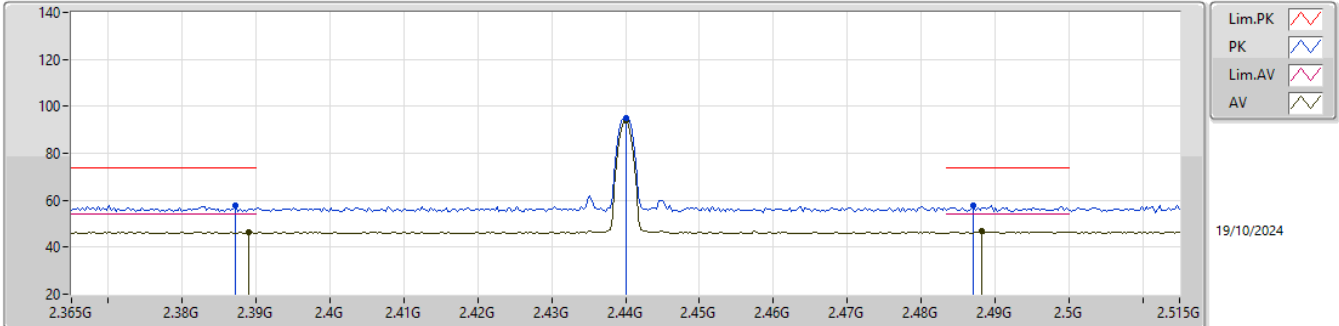


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.79432G	45.59	74.00	-28.41	41.60	3	Horizontal	223	2.87	-	31.39	6.55	33.95				
AV	4.79596G	33.69	54.00	-20.31	29.70	3	Horizontal	223	2.87	-	31.39	6.55	33.95				
PK	12.00216G	58.54	74.00	-15.46	42.00	3	Horizontal	344.1	1.80	-	39.01	12.08	34.55				
AV	12.00888G	47.05	54.00	-6.95	30.48	3	Horizontal	344.1	1.80	-	39.04	12.08	34.55				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

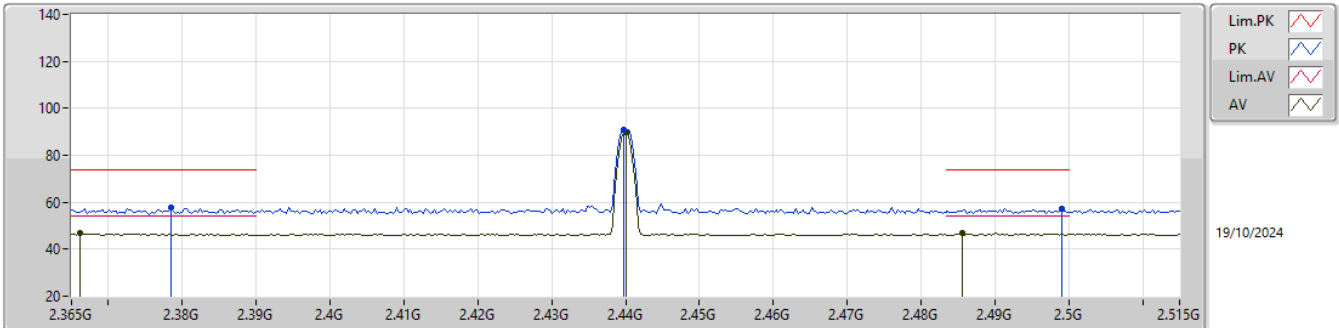


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3872G	57.84	74.00	-16.16	25.62	3	Vertical	319	3.00	-	27.60	4.62	-			
AV	2.389G	46.48	54.00	-7.52	14.26	3	Vertical	319	3.00	-	27.60	4.62	-			
PK	2.44G	95.01	Inf	-Inf	62.91	3	Vertical	319	3.00	-	27.40	4.70	-			
AV	2.44G	93.94	Inf	-Inf	61.84	3	Vertical	319	3.00	-	27.40	4.70	-			
PK	2.4871G	57.72	74.00	-16.28	25.47	3	Vertical	319	3.00	-	27.47	4.78	-			
AV	2.4883G	46.66	54.00	-7.34	14.40	3	Vertical	319	3.00	-	27.48	4.78	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

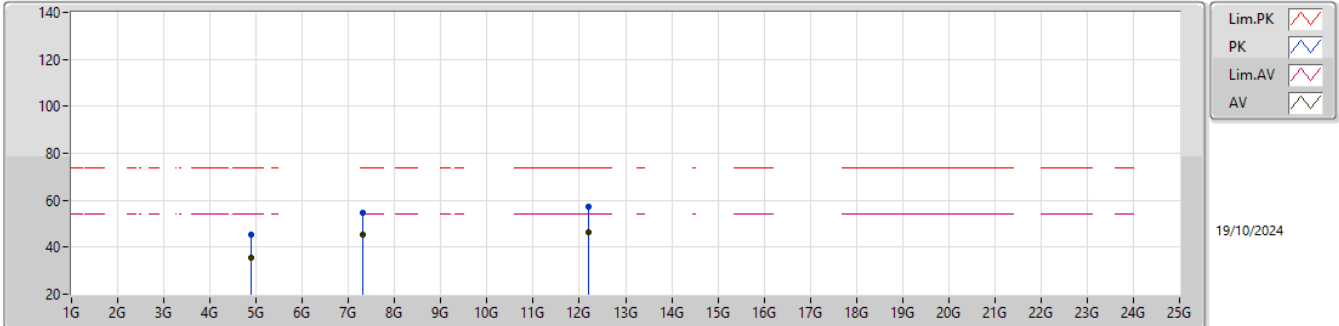


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3785G	57.55	74.00	-16.45	25.31	3	Horizontal	304	2.61	-	27.62	4.62	-			
AV	2.3662G	46.69	54.00	-7.31	14.34	3	Horizontal	304	2.61	-	27.74	4.61	-			
PK	2.4397G	91.11	Inf	-Inf	59.01	3	Horizontal	304	2.61	-	27.40	4.70	-			
AV	2.44G	90.05	Inf	-Inf	57.95	3	Horizontal	304	2.61	-	27.40	4.70	-			
PK	2.4991G	57.49	74.00	-16.51	25.28	3	Horizontal	304	2.61	-	27.41	4.80	-			
AV	2.4856G	46.72	54.00	-7.28	14.48	3	Horizontal	304	2.61	-	27.46	4.78	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

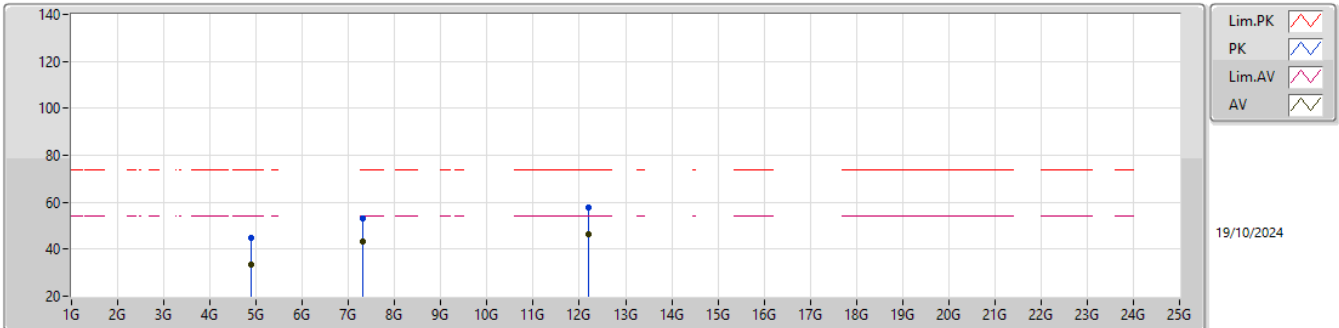


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87888G	45.31	74.00	-28.69	41.43	3	Vertical	181	1.97	-	31.30	6.55	33.97			
AV	4.87992G	35.59	54.00	-18.41	31.71	3	Vertical	181	1.97	-	31.30	6.55	33.97			
PK	7.31926G	54.67	74.00	-19.33	43.68	3	Vertical	91	2.47	-	36.60	8.58	34.19			
AV	7.31928G	45.43	54.00	-8.57	34.44	3	Vertical	91	2.47	-	36.60	8.58	34.19			
PK	12.19894G	57.13	74.00	-16.87	40.51	3	Vertical	132	2.49	-	39.10	12.07	34.55			
AV	12.20112G	46.40	54.00	-7.60	29.78	3	Vertical	132	2.49	-	39.10	12.07	34.55			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

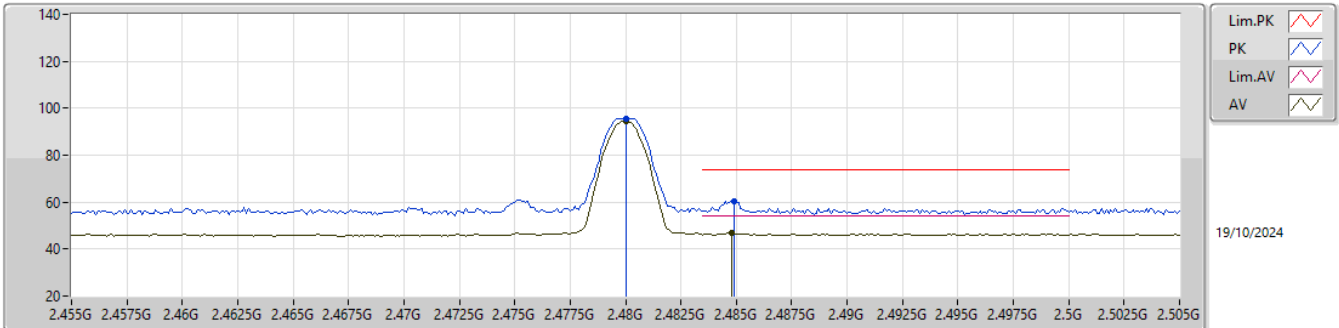


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8806G	44.75	74.00	-29.25	40.87	3	Horizontal	310	2.18	-	31.30	6.55	33.97			
AV	4.87764G	33.34	54.00	-20.66	29.46	3	Horizontal	310	2.18	-	31.30	6.55	33.97			
PK	7.3195G	53.10	74.00	-20.90	42.11	3	Horizontal	169	2.63	-	36.60	8.58	34.19			
AV	7.31942G	43.18	54.00	-10.82	32.19	3	Horizontal	169	2.63	-	36.60	8.58	34.19			
PK	12.20146G	57.67	74.00	-16.33	41.06	3	Horizontal	19	1.53	-	39.09	12.07	34.55			
AV	12.19886G	46.44	54.00	-7.56	29.82	3	Horizontal	19	1.53	-	39.10	12.07	34.55			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

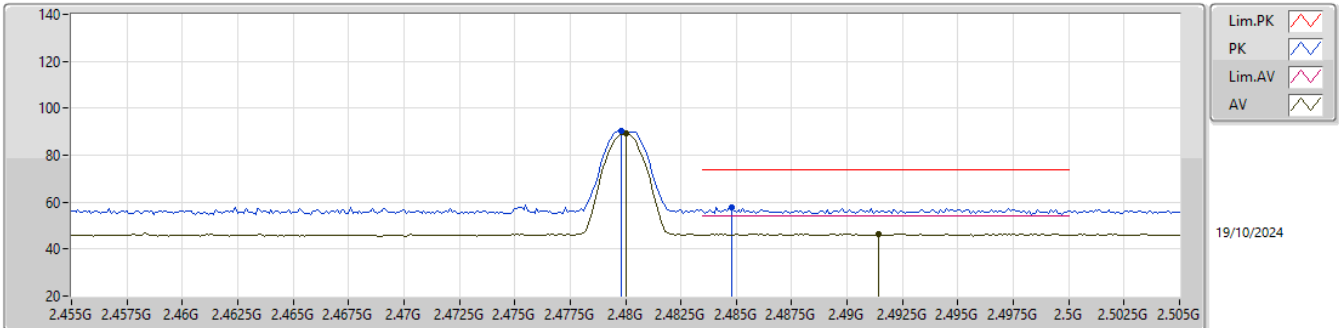


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.48G	95.60	Inf	-Inf	63.43	3	Vertical	360	2.87	-	27.40	4.77	-			
AV	2.48G	94.53	Inf	-Inf	62.36	3	Vertical	360	2.87	-	27.40	4.77	-			
PK	2.4849G	60.33	74.00	-13.67	28.11	3	Vertical	360	2.87	-	27.45	4.77	-			
AV	2.4848G	46.79	54.00	-7.21	14.57	3	Vertical	360	2.87	-	27.45	4.77	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

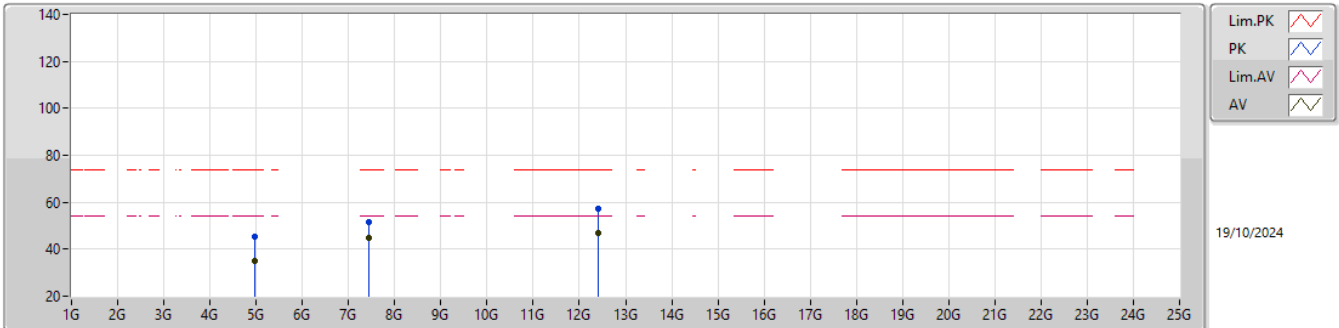


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4798G	90.15	Inf	-Inf	57.98	3	Horizontal	307	1.57	-	27.40	4.77	-			
AV	2.48G	89.07	Inf	-Inf	56.90	3	Horizontal	307	1.57	-	27.40	4.77	-			
PK	2.4848G	57.88	74.00	-16.12	25.66	3	Horizontal	307	1.57	-	27.45	4.77	-			
AV	2.4914G	46.48	54.00	-7.52	14.20	3	Horizontal	307	1.57	-	27.49	4.79	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

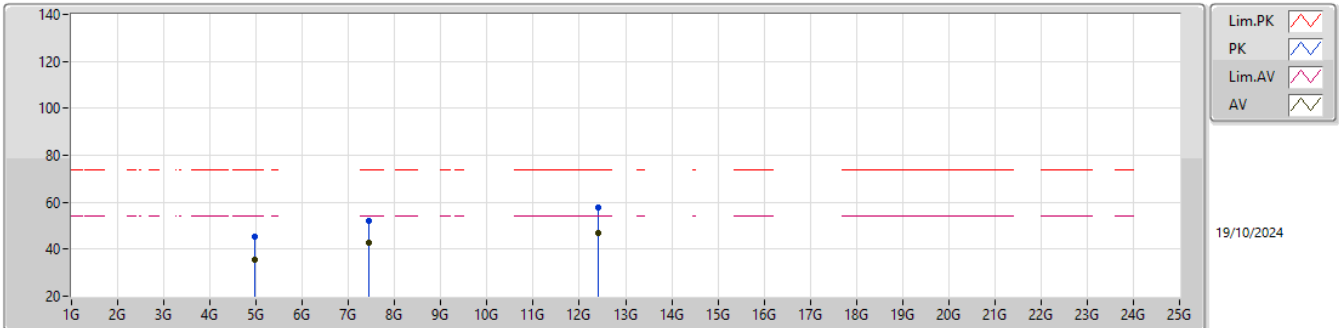


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.96044G	45.34	74.00	-28.66	41.24	3	Vertical	16	1.24	-	31.52	6.56	33.98				
AV	4.95958G	35.11	54.00	-18.89	31.01	3	Vertical	16	1.24	-	31.52	6.56	33.98				
PK	7.44062G	51.61	74.00	-22.39	40.61	3	Vertical	219	2.59	-	36.48	8.71	34.19				
AV	7.43926G	44.89	54.00	-9.11	33.89	3	Vertical	352	2.42	-	36.48	8.71	34.19				
PK	12.39628G	57.30	74.00	-16.70	40.99	3	Vertical	61	1.43	-	38.80	12.07	34.56				
AV	12.39874G	46.72	54.00	-7.28	30.41	3	Vertical	61	1.43	-	38.80	12.07	34.56				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

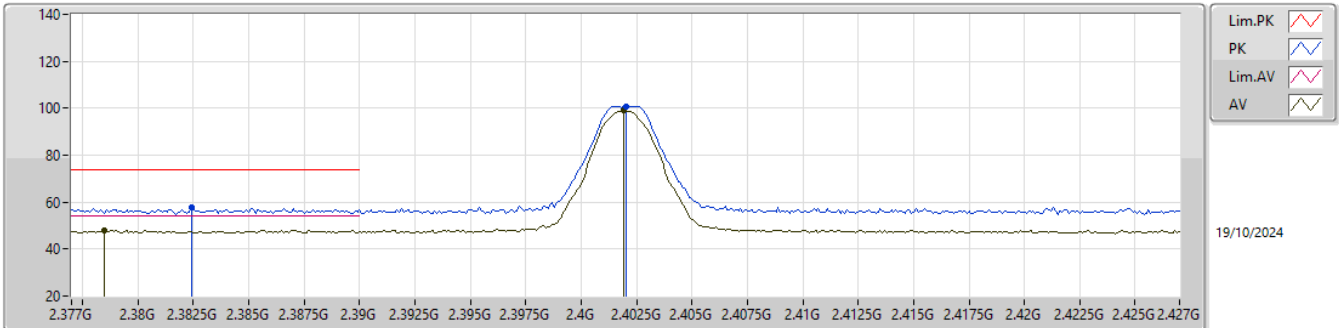


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.95948G	45.42	74.00	-28.58	41.32	3	Horizontal	292	2.80	-	31.52	6.56	33.98				
AV	4.95996G	35.58	54.00	-18.42	31.48	3	Horizontal	292	2.80	-	31.52	6.56	33.98				
PK	7.44G	52.14	74.00	-21.86	41.14	3	Horizontal	266	1.19	-	36.48	8.71	34.19				
AV	7.43924G	42.74	54.00	-11.26	31.74	3	Horizontal	266	1.19	-	36.48	8.71	34.19				
PK	12.39784G	57.60	74.00	-16.40	41.29	3	Horizontal	340	1.30	-	38.80	12.07	34.56				
AV	12.39864G	46.94	54.00	-7.06	30.63	3	Horizontal	340	1.30	-	38.80	12.07	34.56				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

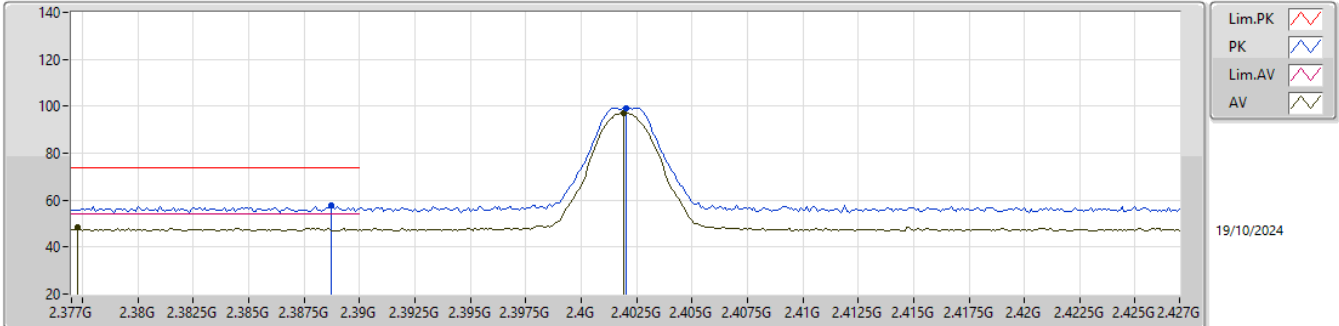


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3824G	57.54	74.00	-16.46	25.32	3	Vertical	180	2.74	-	27.60	4.62	-			
AV	2.3785G	47.94	54.00	-6.06	15.70	3	Vertical	180	2.74	-	27.62	4.62	-			
PK	2.402G	100.87	Inf	-Inf	68.64	3	Vertical	180	2.74	-	27.60	4.63	-			
AV	2.4019G	99.00	Inf	-Inf	66.77	3	Vertical	180	2.74	-	27.60	4.63	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

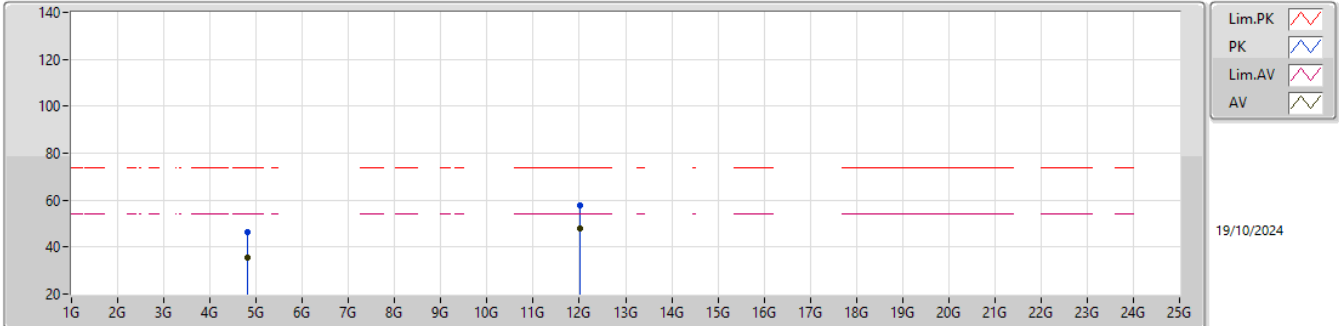


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3887G	57.77	74.00	-16.23	25.55	3	Horizontal	305	2.86	-	27.60	4.62	-				
AV	2.3773G	48.27	54.00	-5.73	16.02	3	Horizontal	305	2.86	-	27.63	4.62	-				
PK	2.402G	99.17	Inf	-Inf	66.94	3	Horizontal	305	2.86	-	27.60	4.63	-				
AV	2.4019G	97.30	Inf	-Inf	65.07	3	Horizontal	305	2.86	-	27.60	4.63	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

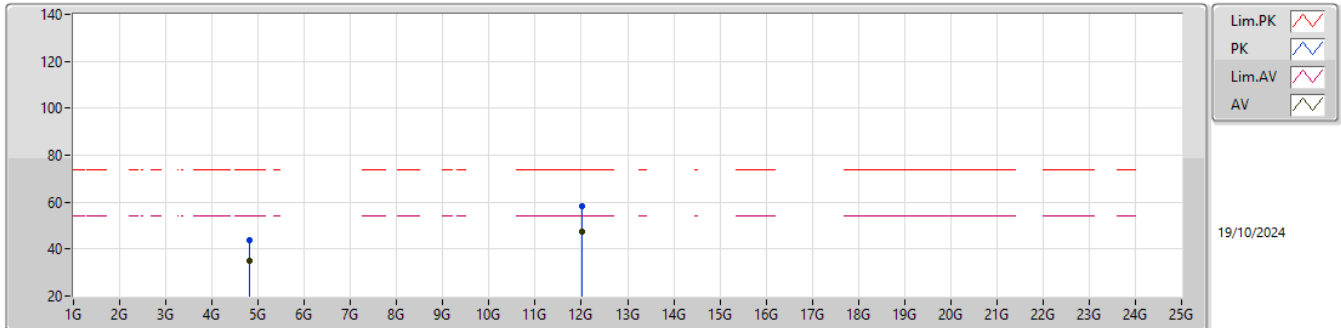


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.79952G	46.30	74.00	-27.70	42.30	3	Vertical	106	2.13	-	31.40	6.55	33.95			
AV	4.7997G	35.55	54.00	-18.45	31.55	3	Vertical	106	2.13	-	31.40	6.55	33.95			
PK	12.0063G	57.51	74.00	-16.49	40.95	3	Vertical	334	1.26	-	39.03	12.08	34.55			
AV	12.0126G	47.86	54.00	-6.14	31.28	3	Vertical	334	1.26	-	39.05	12.08	34.55			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

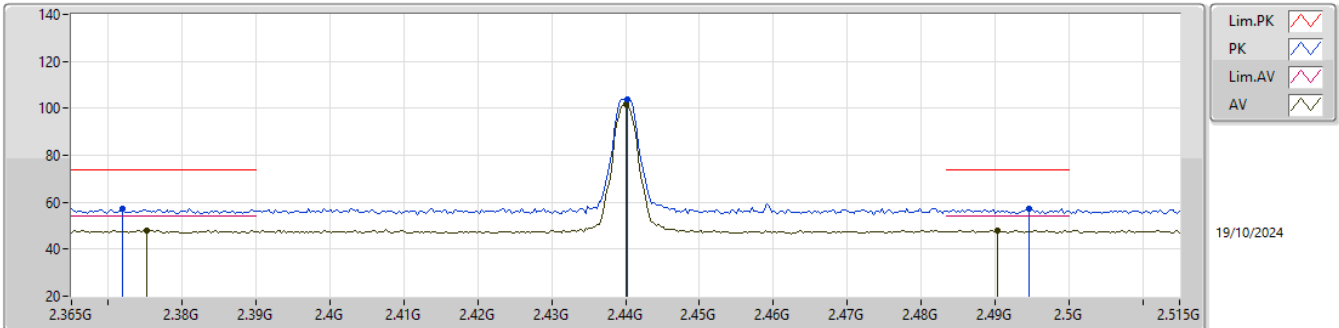


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	4.80158G	43.97	74.00	-30.03	39.97	3	Horizontal	23	2.17	-	31.40	6.55	33.95				
AV	4.8038G	34.75	54.00	-19.25	30.76	3	Horizontal	23	2.17	-	31.39	6.55	33.95				
PK	12.0084G	58.25	74.00	-15.75	41.69	3	Horizontal	56	1.96	-	39.03	12.08	34.55				
AV	12.01122G	47.58	54.00	-6.42	31.01	3	Horizontal	56	1.96	-	39.04	12.08	34.55				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

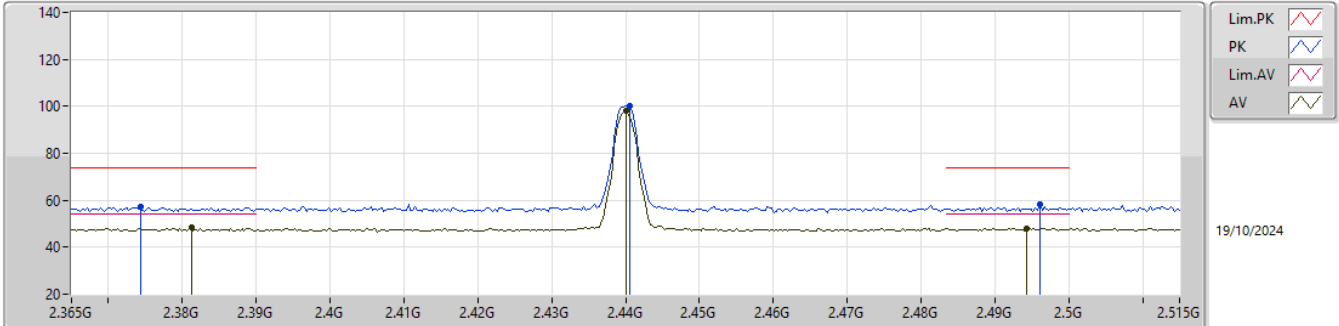


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3719G	57.35	74.00	-16.65	25.06	3	Vertical	320	3.00	-	27.68	4.61	-			
AV	2.3752G	48.11	54.00	-5.89	15.85	3	Vertical	320	3.00	-	27.65	4.61	-			
PK	2.4403G	103.77	Inf	-Inf	71.67	3	Vertical	320	3.00	-	27.40	4.70	-			
AV	2.44G	101.90	Inf	-Inf	69.80	3	Vertical	320	3.00	-	27.40	4.70	-			
PK	2.4946G	57.25	74.00	-16.75	25.01	3	Vertical	320	3.00	-	27.45	4.79	-			
AV	2.4904G	48.00	54.00	-6.00	15.72	3	Vertical	320	3.00	-	27.50	4.78	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

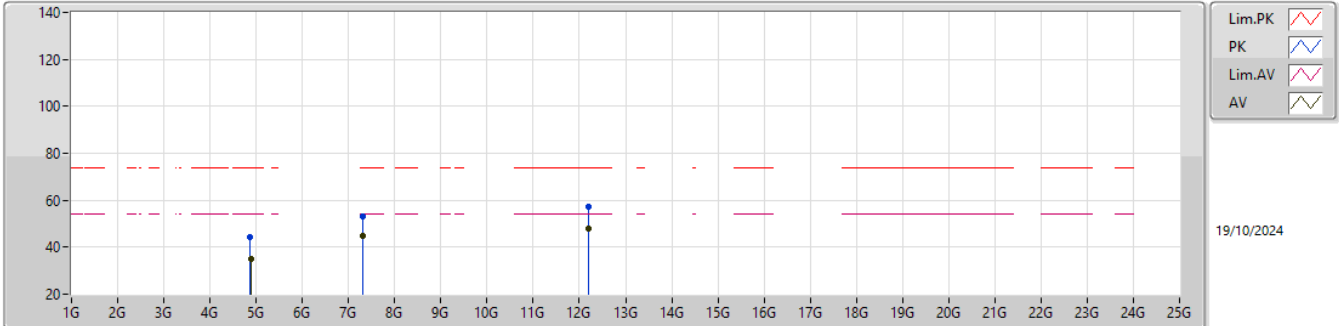


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3743G	57.00	74.00	-17.00	24.73	3	Horizontal	304	2.61	-	27.66	4.61	-			
AV	2.3812G	48.51	54.00	-5.49	16.29	3	Horizontal	304	2.61	-	27.60	4.62	-			
PK	2.4406G	99.92	Inf	-Inf	67.81	3	Horizontal	304	2.61	-	27.41	4.70	-			
AV	2.44G	98.07	Inf	-Inf	65.97	3	Horizontal	304	2.61	-	27.40	4.70	-			
PK	2.4961G	58.03	74.00	-15.97	25.80	3	Horizontal	304	2.61	-	27.44	4.79	-			
AV	2.4943G	48.15	54.00	-5.85	15.90	3	Horizontal	304	2.61	-	27.46	4.79	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

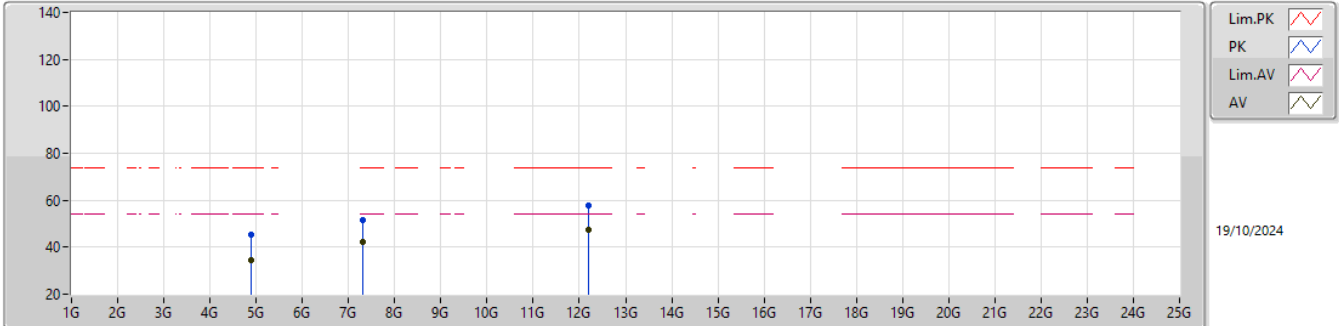


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87602G	44.32	74.00	-29.68	40.44	3	Vertical	352	2.76	-	31.30	6.55	33.97			
AV	4.88G	35.23	54.00	-18.77	31.35	3	Vertical	352	2.76	-	31.30	6.55	33.97			
PK	7.31984G	53.06	74.00	-20.94	42.07	3	Vertical	181	2.14	-	36.60	8.58	34.19			
AV	7.3186G	44.72	54.00	-9.28	33.73	3	Vertical	181	2.14	-	36.60	8.58	34.19			
PK	12.20392G	57.23	74.00	-16.77	40.63	3	Vertical	159	1.03	-	39.08	12.07	34.55			
AV	12.20222G	48.05	54.00	-5.95	31.44	3	Vertical	159	1.03	-	39.09	12.07	34.55			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

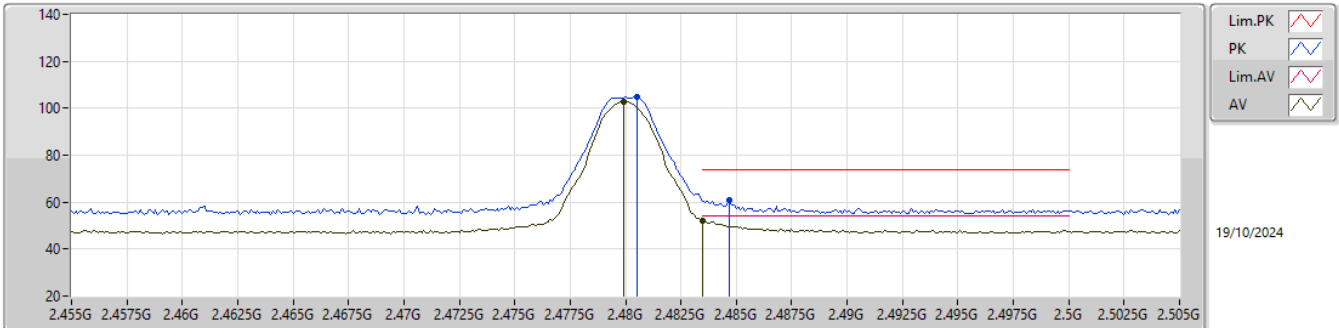


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.88084G	45.20	74.00	-28.80	41.32	3	Horizontal	293	1.00	-	31.30	6.55	33.97			
AV	4.88164G	34.70	54.00	-19.30	30.82	3	Horizontal	293	1.00	-	31.30	6.55	33.97			
PK	7.3162G	51.71	74.00	-22.29	40.72	3	Horizontal	35	1.12	-	36.60	8.58	34.19			
AV	7.3153G	42.26	54.00	-11.74	31.27	3	Horizontal	35	1.12	-	36.60	8.58	34.19			
PK	12.19774G	57.78	74.00	-16.22	41.15	3	Horizontal	292	2.91	-	39.11	12.07	34.55			
AV	12.2039G	47.66	54.00	-6.34	31.06	3	Horizontal	292	2.91	-	39.08	12.07	34.55			

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

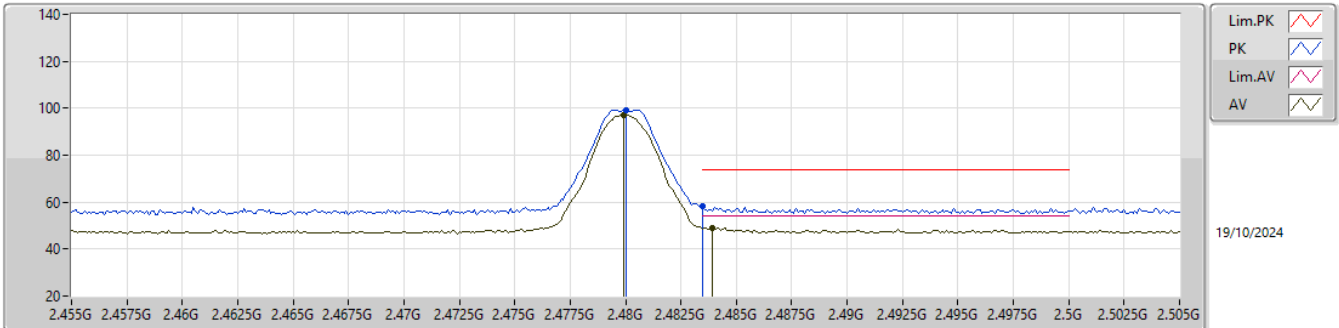


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.4805G	104.67	Inf	-Inf	72.49	3	Vertical	359.7	2.87	-	27.41	4.77	-			
AV	2.4799G	102.77	Inf	-Inf	70.60	3	Vertical	359.7	2.87	-	27.40	4.77	-			
PK	2.4847G	60.99	74.00	-13.01	28.77	3	Vertical	359.7	2.87	-	27.45	4.77	-			
AV	2.4835G	52.16	54.00	-1.84	19.95	3	Vertical	359.7	2.87	-	27.44	4.77	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

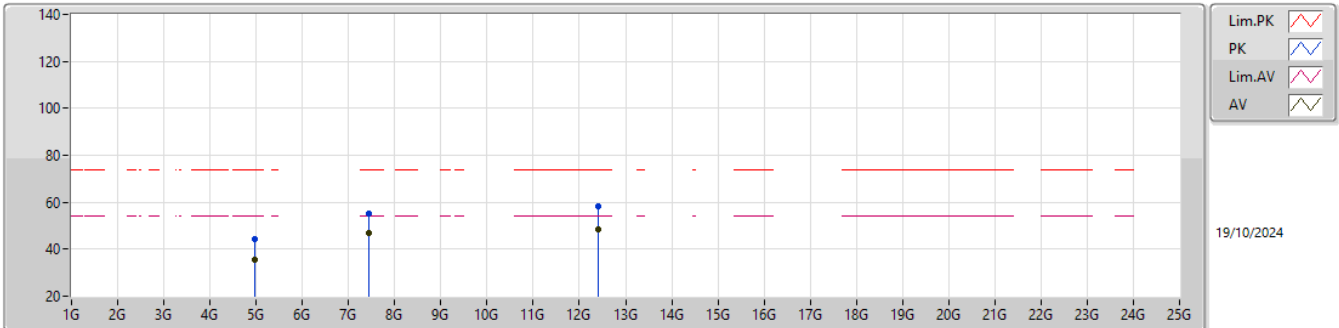


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.48G	99.15	Inf	-Inf	66.98	3	Horizontal	306	1.57	-	27.40	4.77	-				
AV	2.4799G	97.27	Inf	-Inf	65.10	3	Horizontal	306	1.57	-	27.40	4.77	-				
PK	2.4835G	58.14	74.00	-15.86	25.93	3	Horizontal	306	1.57	-	27.44	4.77	-				
AV	2.4839G	49.12	54.00	-4.88	16.91	3	Horizontal	306	1.57	-	27.44	4.77	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

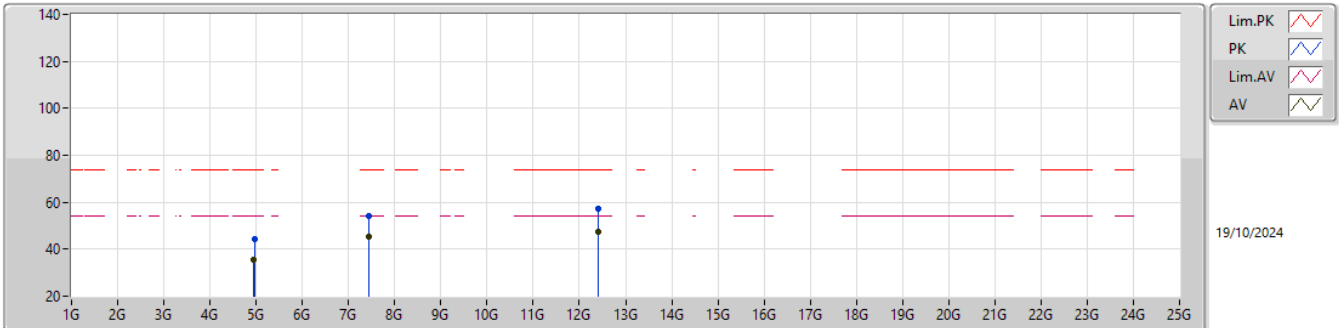


EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9595G	44.45	74.00	-29.55	40.35	3	Vertical	257	2.75	-	31.52	6.56	33.98			
AV	4.95914G	35.49	54.00	-18.51	31.39	3	Vertical	257	2.75	-	31.52	6.56	33.98			
PK	7.43854G	55.10	74.00	-18.90	44.10	3	Vertical	72	2.26	-	36.48	8.71	34.19			
AV	7.43872G	47.08	54.00	-6.92	36.08	3	Vertical	72	2.26	-	36.48	8.71	34.19			
PK	12.39744G	58.27	74.00	-15.73	41.96	3	Vertical	20	1.50	-	38.80	12.07	34.56			
AV	12.39762G	48.30	54.00	-5.70	31.99	3	Vertical	20	1.50	-	38.80	12.07	34.56			

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



EUT_Z_1TX
Setting 10
06-W-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.96154G	44.43	74.00	-29.57	40.33	3	Horizontal	227	1.64	-	31.52	6.56	33.98			
AV	4.95508G	35.54	54.00	-18.46	31.45	3	Horizontal	227	1.64	-	31.51	6.56	33.98			
PK	7.43866G	53.97	74.00	-20.03	42.97	3	Horizontal	265	2.48	-	36.48	8.71	34.19			
AV	7.43876G	45.16	54.00	-8.84	34.16	3	Horizontal	265	2.48	-	36.48	8.71	34.19			
PK	12.39544G	57.38	74.00	-16.62	41.07	3	Horizontal	333	1.37	-	38.80	12.07	34.56			
AV	12.40052G	47.65	54.00	-6.35	31.34	3	Horizontal	333	1.37	-	38.80	12.07	34.56			