



RADIO TEST REPORT

FCC ID : QXO-AP3020X
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP3020X
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 16, 2026, and testing was started from Jun. 23, 2026 and completed on Aug. 26, 2026. 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 C63.10-2020 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

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History of this test report

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

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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: Sandy Chuang**



1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4G	BT-LE(1Mbps)	1	1
2.4G	BT-LE(500Kb/s)	1	1
2.4G	BT-LE(125Kb/s)	1	1
2.4G	BT-LE(2Mbps)	2	1

Note:

Bluetooth LE uses a GFSK modulation.
BWch is the nominal channel bandwidth.


1.1.2 Antenna Information

Ant.	RF Port				Brand Name	Model Name	Ant. Type	Connector	Modes of Operation	Remark	Gain (dBi)		
	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth and IEEE 802.15.4									
1	1	1	-	-	WNC	ML-2452-APA2-02	Dipole Omni	Reverse SMA	WLAN 2.4GHz (Radio 1), WLAN 5GHz UNII 2C~3 or UNII 1~3 (Radio 2)	External Ant.	Note 1		
	2	2	-	-									
2	1 (V)	1 (V)	-	-	Extreme Networks	AIO-DD75060-RPSMA	Panel	Reverse SMA					
	2 (H)	2 (H)	-	-									
3	1 (V)	1 (V)	-	-	Extreme Networks	AIO-DD05120-RPSMA	Dual-Polarized Panel	Reverse SMA					
	2 (H)	2 (H)	-	-									
4	1 (V)	1 (V)	-	-	Extreme Networks	AIO-DD15020-RPSMA	MIMO-Directional Panel	Reverse SMA					
	2 (H)	2 (H)	-	-									
5	-	1	1	-	WNC	95XPAM15.G98	Dipole	I-Pex				WLAN 5GHz UNII 1~2A 、 WLAN 6GHz UNII 5~8 (Radio 1)	External Ant. (Non-detachable)
6	-	2	2	-	WNC	95XPAM15.G99	Dipole	I-Pex					
7	-	-	-	1	WNC	95XPAM15.G97	PIFA	I-Pex	Bluetooth 、 IEEE 802.15.4 (Radio 3)	Internal Ant.			
8	-	-	-	1	WNC	95XPAM15.G95	Dipole	I-Pex					
9	-	-	-	1	WNC	95XPAM15.G96	PIFA	I-Pex					



Note 1:

Ant.	RF Port				Antenna Gain (dBi)											
	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth and IEEE 802.15.4	WLAN 2.4GHz (Radio 1)	WLAN 5GHz UNII 1~3 (Radio 2)				WLAN 5GHz UNII 1~2A (Radio 1)		WLAN 6GHz UNII 5~8 (Radio 1)				Bluetooth and IEEE 802.15.4 (Radio 3)
						UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 1	UNII 2A	UNII 5	UNII 6	UNII 7	UNII 8	
1	1	1	-	-	3.04	4.3	4.07	4.96	4.96	-	-	-	-	-	-	-
	2	2	-	-	3.04	4.3	4.07	4.96	4.96							
2	1 (V)	1 (V)	-	-	7.5	7.5	7.5	7.5	7.5	-	-	-	-	-	-	-
	2 (H)	2 (H)	-	-	7.5	7.5	7.5	7.5	7.5							
3	1 (V)	1 (V)	-	-	5.5	5	5	5	5	-	-	-	-	-	-	-
	2 (H)	2 (H)	-	-	5.5	5	5	5	5							
4	1 (V)	1 (V)	-	-	12	15	15	15	15	-	-	-	-	-	-	-
	2 (H)	2 (H)	-	-	12	15	15	15	15							
5	-	1	1	-	-	-	-	-	-	4.47	4.47	5.3	5.3	5.3	5.3	-
6	-	2	2	-	-	-	-	-	-	4.51	4.51	5.9	5.9	5.9	5.9	-
7	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3.21
8	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	5.81
9	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3.28

Ant.	RF Port		Antenna Cable Loss (dB)				
	WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz (Radio 1)	WLAN 5GHz UNII 1~3 (Radio 2)			
				UNII 1	UNII 2A	UNII 2C	UNII 3
1	1	1	0.79	1.2	1.2	1.2	1.2
	2	2	0.33	0.5	0.5	0.5	0.5
2	1 (V)	1 (V)	0.79	1.2	1.2	1.2	1.2
	2 (H)	2 (H)	0.33	0.5	0.5	0.5	0.5
3	1 (V)	1 (V)	0.79	1.2	1.2	1.2	1.2
	2 (H)	2 (H)	0.33	0.5	0.5	0.5	0.5
4	1 (V)	1 (V)	0.79	1.2	1.2	1.2	1.2
	2 (H)	2 (H)	0.33	0.5	0.5	0.5	0.5



Ant.	RF Port		Antenna True Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz (Radio 1)	WLAN 5GHz UNII 1~3 (Radio 2)			
				UNII 1	UNII 2A	UNII 2C	UNII 3
1	1	1	2.25	3.1	2.87	3.76	3.76
	2	2	2.71	3.8	3.57	4.46	4.46
2	1 (V)	1 (V)	6.71	6.3	6.3	6.3	6.3
	2 (H)	2 (H)	7.17	7	7	7	7
3	1 (V)	1 (V)	4.71	3.8	3.8	3.8	3.8
	2 (H)	2 (H)	5.17	4.5	4.5	4.5	4.5
4	1 (V)	1 (V)	11.21	13.8	13.8	13.8	13.8
	2 (H)	2 (H)	11.67	14.5	14.5	14.5	14.5

Note 2: The above information was declared by manufacturer.

Note 3: For WLAN 2.4GHz (Radio 1) and WLAN 5GHz (Radio 2): Only the highest gain antenna “Ant. 1, Ant. 2 and Ant. 4” was selected to perform the test and recorded in this report.

Note 4: For WLAN 5GHz and 6GHz (Radio 1): Ant.5+Ant.6 were selected to perform the test and recorded in this report.

Note 5: States antenna 5GHz and 6GHz transmission will be restricted per country’s regulation.

Note 6: 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 $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

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

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

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

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

Where ;

**<Radio 1>**

2.4G

Ant. 1

2.4G G1= 2.25 dBi ; G2= 2.71 dBi ;

2T1S DG= 5.49dBi ; 2T2S DG= 2.49dBi

Ant. 2 (Cross-Polarized Antenna)

2.4G G1= 6.71 dBi ; G2= 7.17 dBi ;

2T1S DG= 7.17dBi ; 2T2S DG= 6.95dBi

Ant. 4 (Cross-Polarized Antenna)

2.4G G1= 11.21 dBi ; G2= 11.67 dBi ;

2T1S DG= 11.67dBi ; 2T2S DG= 11.45dBi

5G

5G UNII-1 G1= 4.47 dBi ; G2= 4.51 dBi ;

2T1S DG= 7.5dBi ; 2T2S DG= 4.49dBi

5G UNII-2A G1= 4.47 dBi ; G2= 4.51 dBi ;

2T1S DG= 7.5dBi ; 2T2S DG= 4.49dBi

6G

6G UNII-5 G1= 5.3 dBi ; G2= 5.9 dBi ;

2T1S DG= 8.62dBi ; 2T2S DG= 5.61dBi

6G UNII-6 G1= 5.3 dBi ; G2= 5.9 dBi ;

2T1S DG= 8.62dBi ; 2T2S DG= 5.61dBi

6G UNII-8 G1= 5.3 dBi ; G2= 5.9 dBi ;

2T1S DG= 8.62dBi ; 2T2S DG= 5.61dBi

<Radio 2>

5G

Ant. 1

5G UNII-1 G1= 3.1 dBi ; G2= 3.8 dBi ;

2T1S DG= 6.47dBi ; 2T2S DG= 3.46dBi

5G UNII-2A G1= 2.87 dBi ; G2= 3.57 dBi ;

2T1S DG= 6.24dBi ; 2T2S DG= 3.23dBi

5G UNII-2C G1= 3.76 dBi ; G2= 4.46 dBi ;

2T1S DG= 7.13dBi ; 2T2S DG= 4.12dBi

5G UNII-3 G1= 3.76 dBi ; G2= 4.46 dBi ;

2T1S DG= 7.13dBi ; 2T2S DG= 4.12dBi

Ant. 2 (Cross-Polarized Antenna)

5G UNII-1 G1= 6.3 dBi ; G2= 7 dBi ;

2T1S DG= 7 dBi ; 2T2S DG= 6.66dBi

5G UNII-2A G1= 6.3 dBi ; G2= 7 dBi ;

2T1S DG= 7 dBi ; 2T2S DG= 6.66dBi

5G UNII-2C G1= 6.3 dBi ; G2= 7 dBi ;

2T1S DG= 7 dBi ; 2T2S DG= 6.66dBi

5G UNII-3 G1= 6.3 dBi ; G2= 7 dBi ;

2T1S DG= 7 dBi ; 2T2S DG= 6.66dBi

Ant. 4 (Cross-Polarized Antenna)

5G UNII-1 G1= 13.8 dBi ; G2= 14.5 dBi ;

DG= 17.17dBi ; 2T2S DG= 14.16dBi

5G UNII-2A G1= 13.8 dBi ; G2= 14.5 dBi ;

DG= 17.17dBi ; 2T2S DG= 14.16dBi

5G UNII-2C G1= 13.8 dBi ; G2= 14.5 dBi ;

DG= 17.17dBi ; 2T2S DG= 14.16dBi

5G UNII-3 G1= 13.8 dBi ; G2= 14.5 dBi ;

DG= 17.17dBi ; 2T2S DG= 14.16dBi

**For Radio 1:****2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (1, 2TX/2RX)**

The EUT can support both 1TX and 2TX functions.

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX/2RX

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

Port 1 and Port 2 could transmit/receive simultaneously.

5GHz IEEE 802.11a/n/ac/ax/be mode (1, 2TX/2RX)

The EUT can support both 1TX and 2TX functions.

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX/2RX

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

Port 1 and Port 2 could transmit/receive simultaneously.

6GHz IEEE 802.11ax/be mode (1, 2TX/2RX)

The EUT can support both 1TX and 2TX functions.

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX/2RX

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 2:**5GHz IEEE 802.11a/n/ac/ax/be mode (1, 2TX/2RX)**

The EUT can support both 1TX and 2TX functions.

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX/2RX

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 3:**Bluetooth, IEEE 802.15.4 mode (1TX/1RX)**

The EUT supports all antennas with TX/RX diversity functions.

At once time there is only one antenna port can transmitting/receiving RF signal

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
BT-LE(1Mbps)	0.607	2.17	379.375u	3k
BT-LE(2Mbps)	0.314	5.03	196.25u	10k

Note:

DC is Duty Cycle.

DCF is Duty Cycle Factor.

**1.1.4 EUT Operational Condition**

EUT Power Type	From PoE			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	DOS[ver 10.0.19045.6466]			
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 Radio Function

Function Radio (R)	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	IEEE 802.15.4
1	V	V (UNII 1~2A)	V	-	-
2	-	V (UNII 1~3 or UNII 2C~3)	-	-	-
3	-	-	-	V	V

Note 1: For WLAN 5GHz: The Radio1 and Radio 2 can't operate at the same frequency simultaneously.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for EUT Support Function

Type of Function	WLAN 2.4GHz	WLAN 5GHz		WLAN 6GHz
		Radio 1	Radio 2	
AP	V	V (UNII 1~2A)	V (UNII 1~3)	V
Bridge	V	V (UNII 1)	V (UNII 1/UNII3)	V
Mesh	V	V (UNII 1)	V (UNII 1/UNII3)	V

Note 1: For above table list, only AP mode was tested and recorded in this test.

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 C63.10-2020

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	21.7~22.3 / 61~62	Jul. 06, 2026~ Aug. 20, 2026
Radiated below 1GHz	03CH01-CB	Sean Ku	24.3~24.5 / 67~69	Jun. 23, 2026~ Aug. 26, 2026
	03CH05-CB	Lex Lee	24.2~24.9 / 62~67	
Radiated above 1GHz	03CH02-CB	Paul Hu	23.8~24.4 / 59~66	
AC Conduction	CO01-CB	Joe Chu	22~23 / 55~56	Aug. 13, 2026



1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.0 dB	Confidence levels of 95%
Bandwidth Measurement	1.0 %	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

Note:

- ♦ 1Mbps, 500Kb/s, and 125Kb/s modes were the same bandwidth. The 1Mbps mode generated the worst case; thus it was selected to test.

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 (Ant. 4 in Y axis)+R1 (2.4GHz)+R2 (5GHz full)+R3 (BT_Ant. 7)+PoE
2	EUT (Ant. 4 in Y axis)+R1 (2.4GHz)+R2 (5GHz full)+R3 (BT_Ant. 8)+PoE
3	EUT (Ant. 4 in Y axis)+R1 (2.4GHz)+R2 (5GHz full)+R3 (BT_Ant. 9)+PoE
Mode 1 has been evaluated to be the worst case between Mode 1~3, thus measurement for Mode 4~5 will follow this same test mode.	
4	EUT (Ant. 4 in Y axis)+R1 (6GHz full)+R2 (5GHz full)+R3 (BT_Ant. 7)+PoE
5	EUT (Ant. 4 in Y axis)+R1 (5GHz UNII 1~2A)+R2 (5GHz UNII 2C~3)+R3 (BT_Ant. 7)+PoE
Mode 1 has been evaluated to be the worst case between Mode 1~5, thus measurement for Mode 6 will follow this same test mode.	
6	EUT (Ant. 4 in Y axis)+R1 (2.4GHz)+R2 (5GHz full)+R3 (IEEE 802.15.4_Ant. 7)+PoE
For operating mode 1 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 EUT supports all antennas with TX/RX diversity functions. At once time there is only one antenna port can transmitting/receiving RF signal. The Ant. 8 generated the worst case, so it was selected for testing.
1	EUT_R3+Ant. 8

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. After evaluating, and the worst case axis was found as below for radiated above 1GHz test. So the measurement will follow this same test configuration. 2. For Radio 3: The EUT supports all antennas with TX/RX diversity functions. At once time there is only one antenna port can transmitting/receiving RF signal. The Ant. 8 generated the worst case for radiated above 1GHz test, so it was selected for testing.
1	EUT in Z axis_R1 (2.4GHz)+Ant. 1 in Y axis+PoE
2	EUT in Y axis_R1 (2.4GHz)+Ant. 2 in Y axis +PoE
3	EUT in Y axis_R1 (2.4GHz)+Ant. 4 in Y axis +PoE
4	EUT in Z axis_R1 (5GHz)+Ant. 5 、 6 in Y axis+PoE
5	EUT in Z axis_R1 (6GHz)+Ant. 5 、 6 in Y axis+PoE
6	EUT in Y axis_R2 (5GHz)+Ant. 1 in Y axis +PoE
7	EUT in Y axis_R2 (5GHz)+Ant. 2 in Y axis +PoE
8	EUT in Z axis_R2 (5GHz)+Ant. 4 in Y axis +PoE
9	EUT in Y axis_R3 (BT_Ant. 8)+PoE
10	EUT in Y axis_R3 (IEEE 802.15.4_Ant. 8)+PoE
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX 1. After evaluating, the worst case axis was found at Y axis, so it was selected to perform test and its test result was written in the report. 2. The EUT supports all antennas with TX/RX diversity functions. At once time there is only one antenna port can transmitting/receiving RF signal. The Ant. 8 generated the worst case, so it was selected for testing.
1	EUT in Y axis_R3+Ant. 8



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT_R1 (2.4GHz) + R2 (5GHz full) + R3 (BT)
2	EUT_R1 (2.4GHz) + R2 (5GHz full) + R3 (IEEE 802.15.4)
3	EUT_R1 (6GHz full) + R2 (5GHz full) + R3 (BT)
4	EUT_R1 (6GHz full) + R2 (5GHz full) + R3 (IEEE 802.15.4)
5	EUT_R1 (5GHz UNII 1~2A) + R2 (5GHz UNII 2C~3) + R3 (BT)
6	EUT_R1 (5GHz UNII 1~2A) + R2 (5GHz UNII 2C~3) + R3 (IEEE 802.15.4)
Refer to Sporton Test Report No.: FA631826AA for Co-location RF Exposure Evaluation.	

Note1: R means Radio ; BT means Bluetooth.

Note2: The PoE is used for testing purpose; it will not be sold with the EUT

Power	Brand Name	Model Name
PoE 1	PHIHONG	POE60U-BTA
PoE 2	Microsemi	PD-9001GR/AT/AC

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories
Bracket*1
Cap*1
Wall-mounted rack 1*1 (for Ant. 2 use only)
Wall-mounted rack 2*1 (for Ant. 4 use only)



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 1	PHIHONG	POE60U-BTA	N/A
B	PC	ASUS	S300TA	TX2-RTL8821CE
C	R1(2.4G) NB	Lenovo	X260	N/A
D	R2(5G full) NB	Lenovo	X260	N/A
E	Smart phone	Apple	A2403	BCG-E3544A
F	Flash disk2.0	Tcell	Push	N/A

For Radiated:

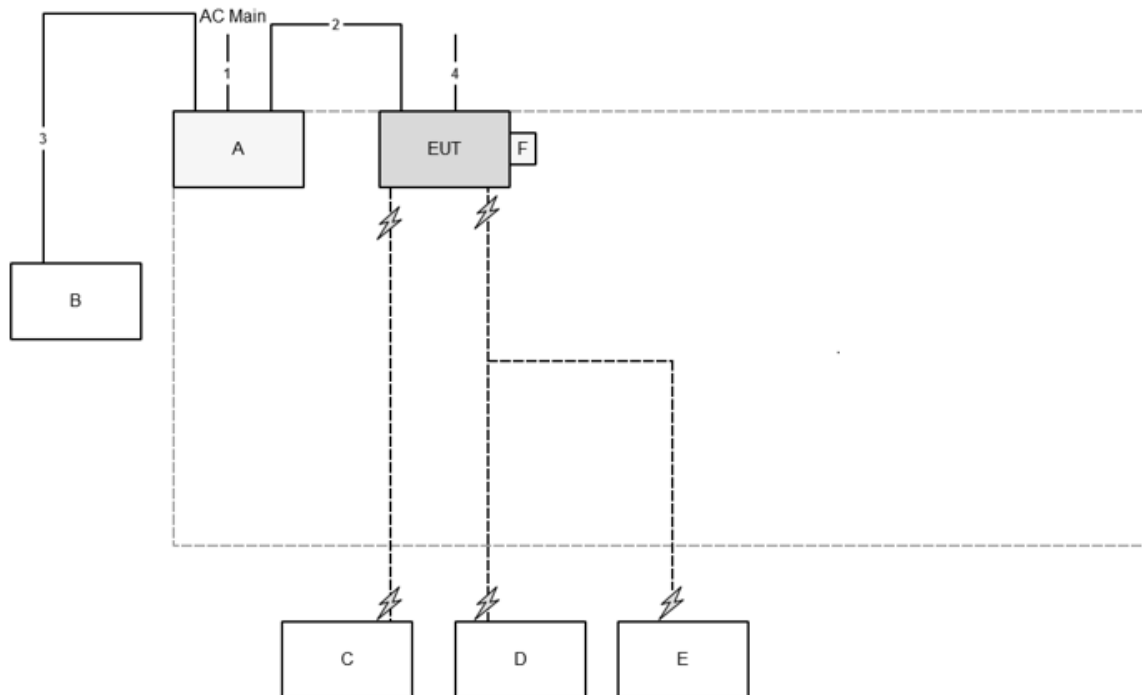
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE 1	PHIHONG	POE60U-BTA	N/A

For RF Conducted:

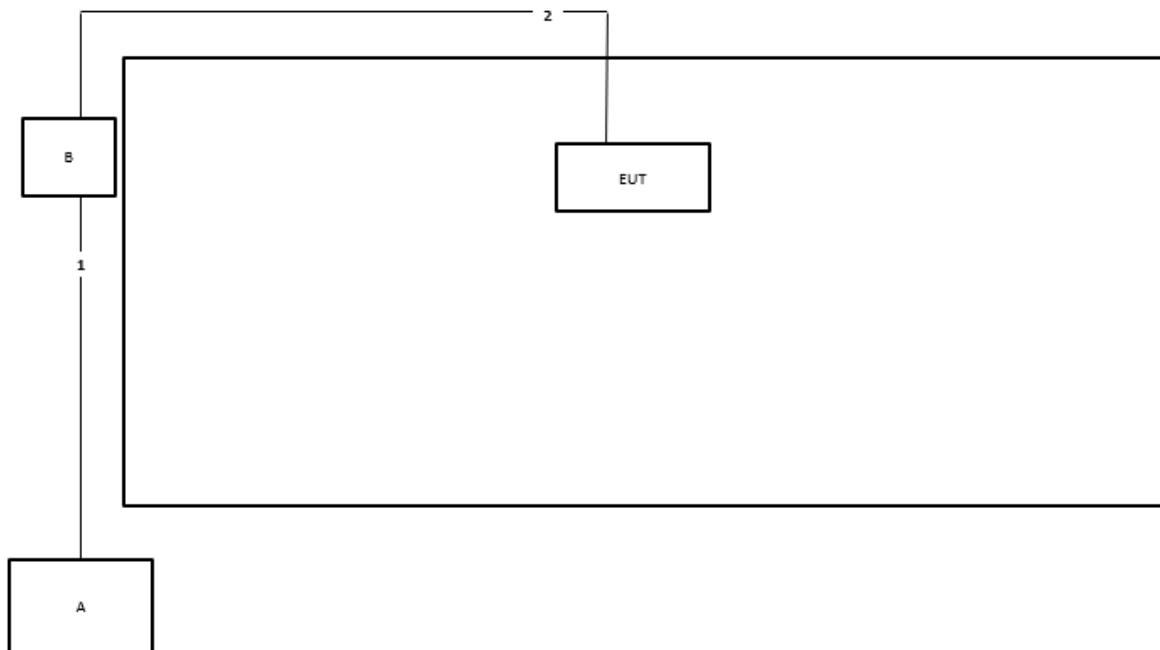
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E6230	N/A
B	PoE 2	Microsemi	PD-9001GR/AT/AC	N/A

2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	Console cable	Yes	1m

Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
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.		

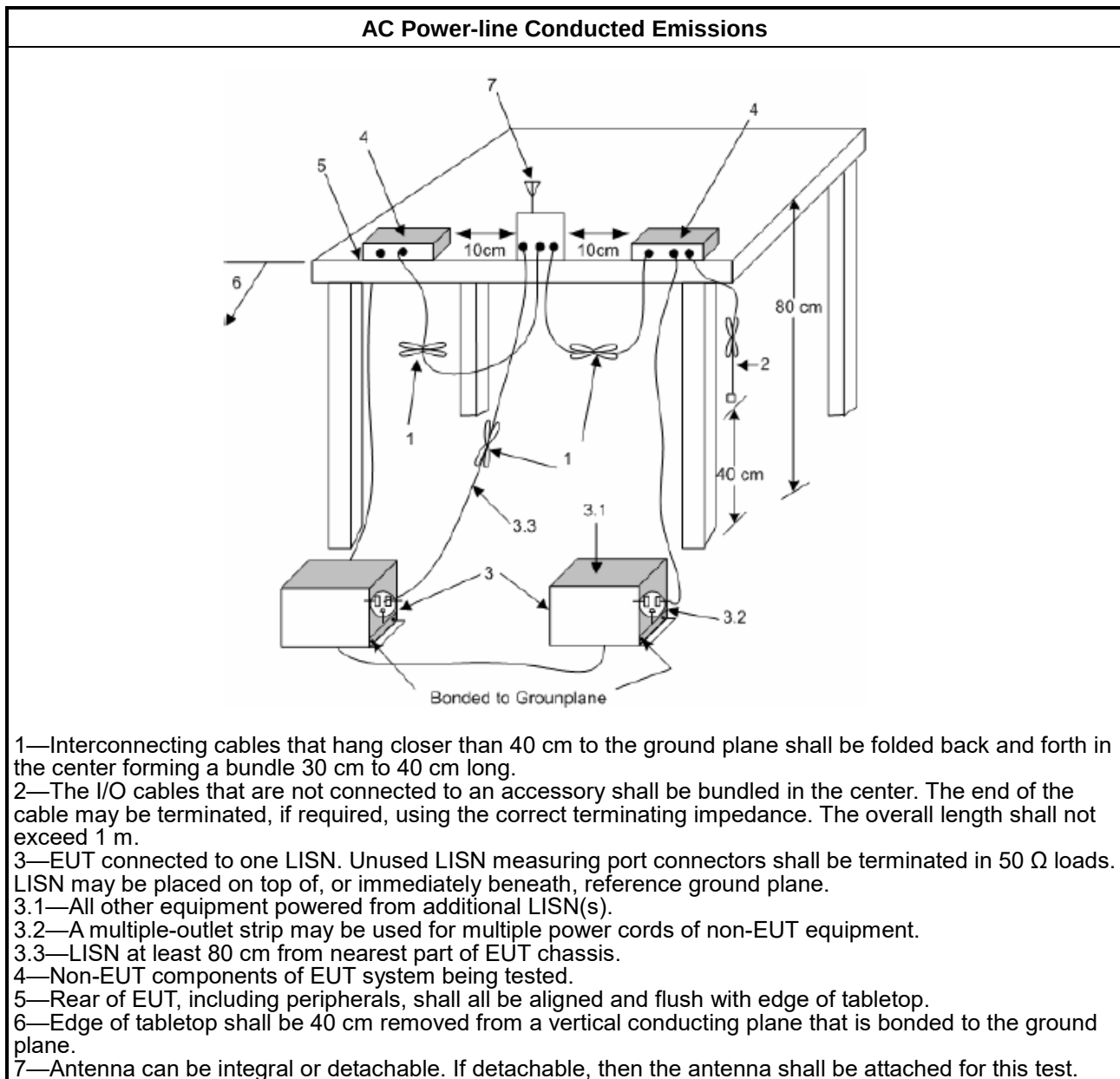
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2020, 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.

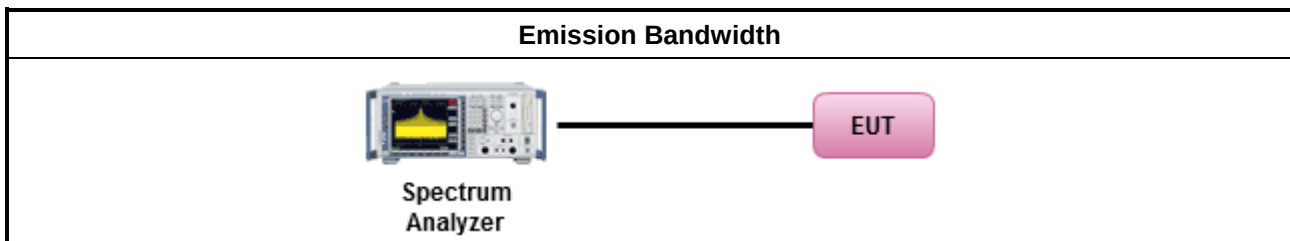
3.2.2 Measuring Instruments

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.	

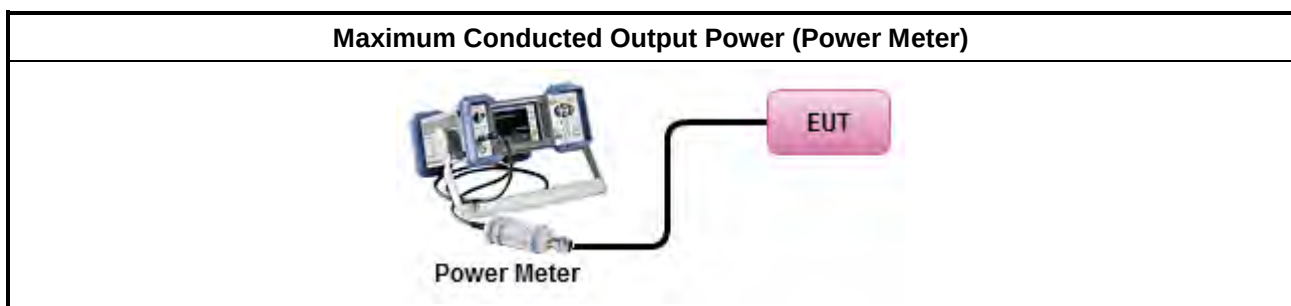
3.3.2 Measuring Instruments

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

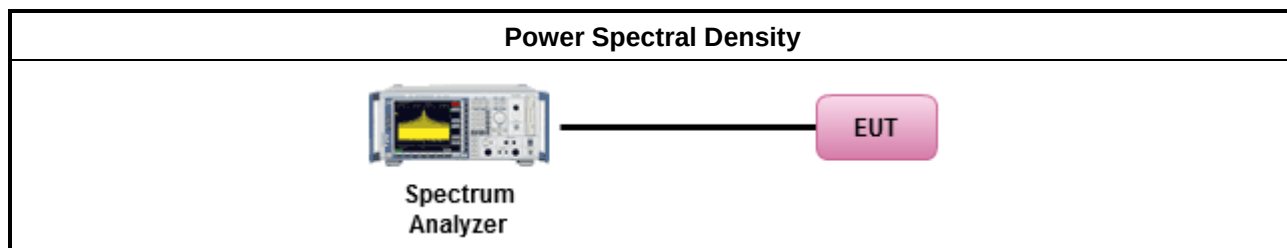
3.4.2 Measuring Instruments

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.	

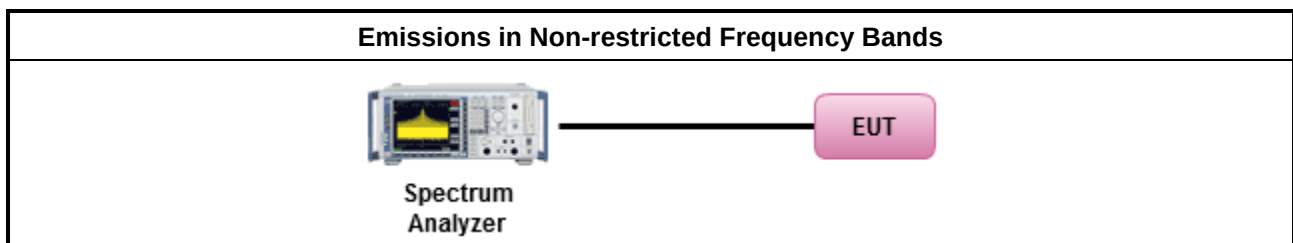
3.5.2 Measuring Instruments

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

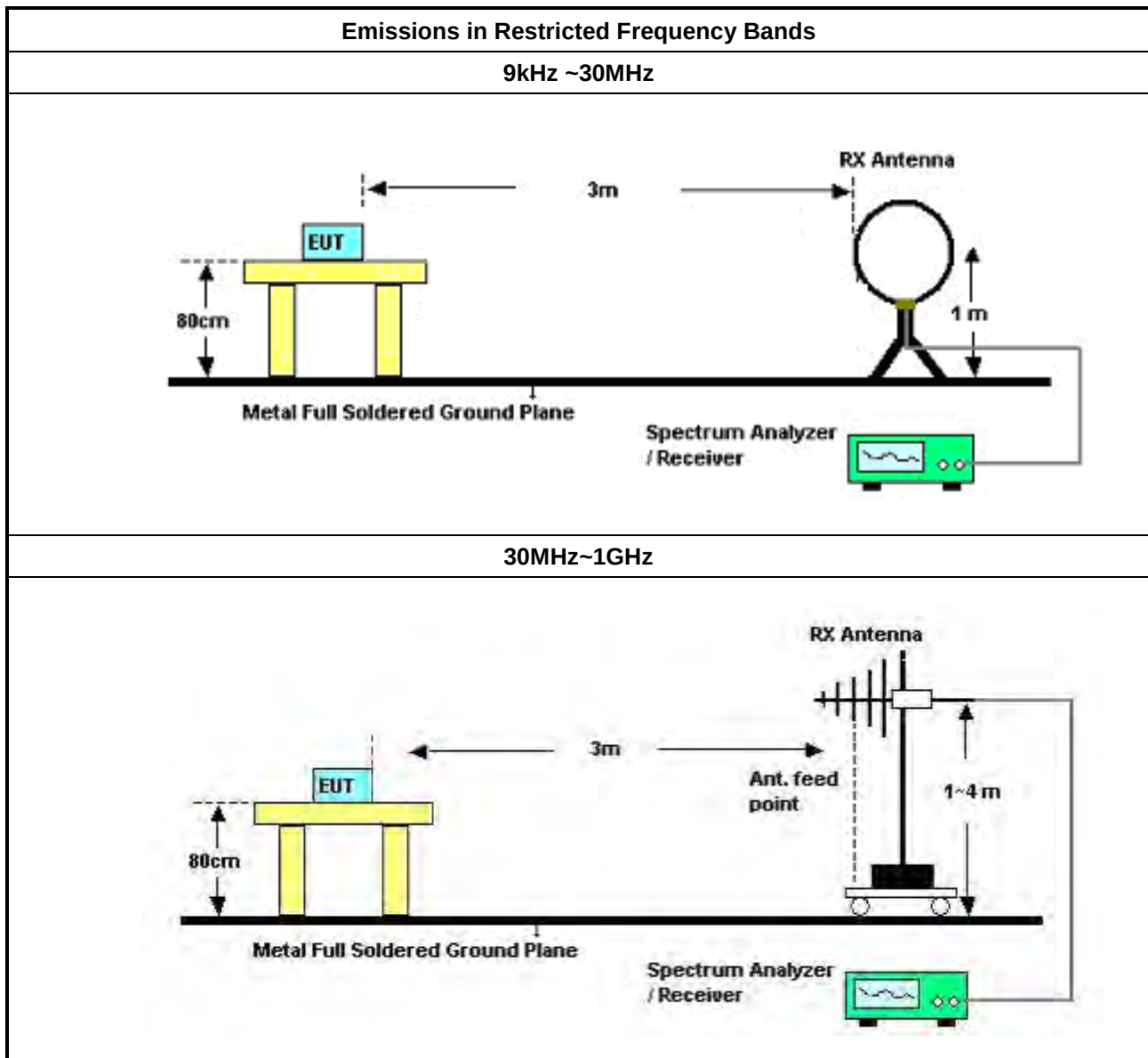
Refer a test equipment and calibration data table in this test report.

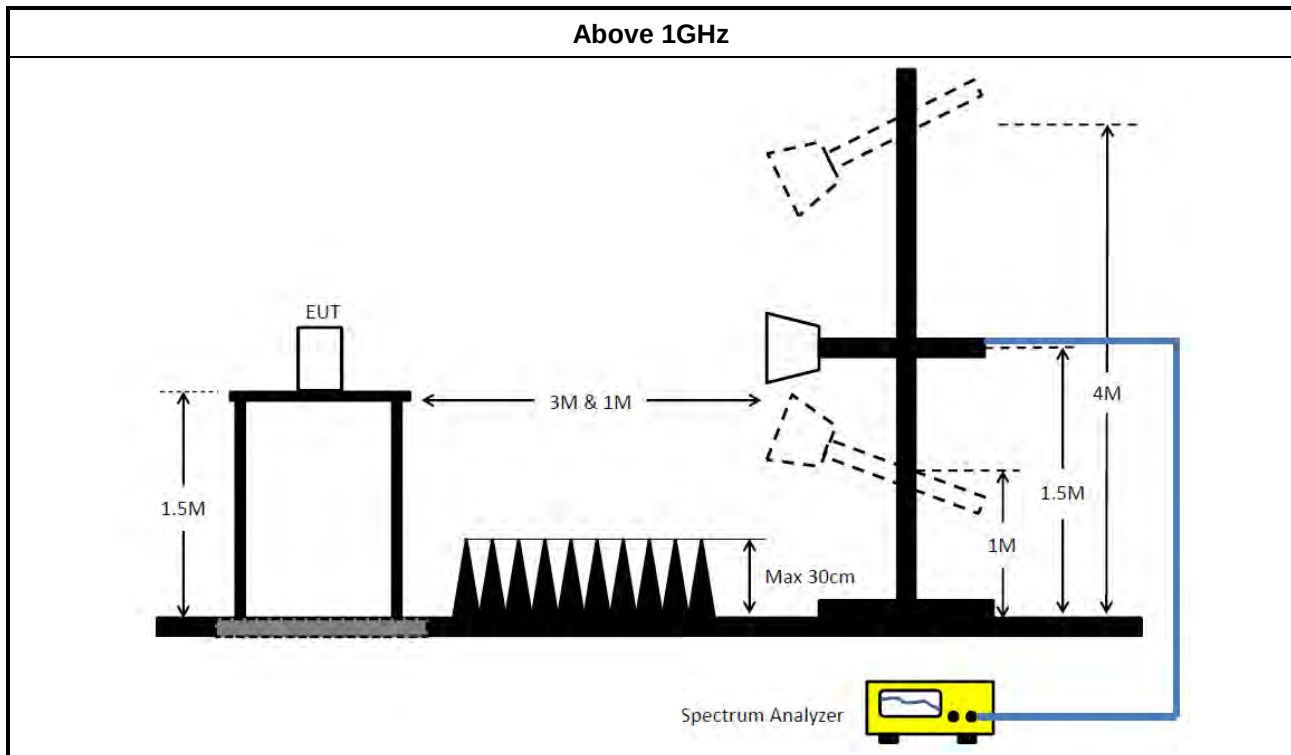


3.6.3 Test Procedures

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
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 12, 2026	Mar. 11, 2027	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 04, 2026	Feb. 03, 2027	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 10, 2026	Apr. 09, 2027	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Sep. 14, 2025	Sep. 13, 2026	Conduction (CO01-CB)
COND Cable	Woken	Cable	CO01	9kHz ~ 30MHz	Sep. 14, 2025	Sep. 13, 2026	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 20, 2025	Oct. 19, 2026	Radiation (03CH01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 15, 2026	Jan. 14, 2027	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 13, 2026	Feb. 12, 2027	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH0301	20230109-2	10M~1GHz	Jun. 20, 2026	Jun. 19, 2027	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Dec. 12, 2025	Dec. 11, 2026	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 29, 2025	Oct. 28, 2026	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-31+32	30 MHz ~ 1 GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.10	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 20, 2025	Oct. 19, 2026	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Jul. 31, 2025	Jul. 30, 2026	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Jul. 30, 2026	Jul. 29, 2027	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 21, 2026	Mar. 20, 2027	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 30, 2026	Apr. 29, 2027	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Signal Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	May 08, 2026	May 07, 2027	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 29, 2025	Oct. 28, 2026	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.10	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 21, 2026	Mar. 20, 2027	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 24, 2026	Apr. 23, 2027	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Oct. 07, 2025	Oct. 06, 2026	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 28, 2025	Jun. 27, 2026	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 27, 2026	Jun. 26, 2027	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 21, 2025	Nov. 20, 2026	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Jun. 04, 2026	Jun. 03, 2027	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Jun. 18, 2026	Jun. 17, 2027	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Jun. 18, 2026	Jun. 17, 2027	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Feb. 11, 2026	Feb. 10, 2027	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.27	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Jun. 30, 2026	Jun. 29, 2027	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~18 GHz	Sep. 20, 2025	Sep. 19, 2026	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1339408	300MHz~40GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH01-CB)



RADIO TEST REPORT

Report No. : FR631826-03AD

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Power Meter	Anritsu	ML2495A	1517009	300MHz~40GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH01-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.27	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.



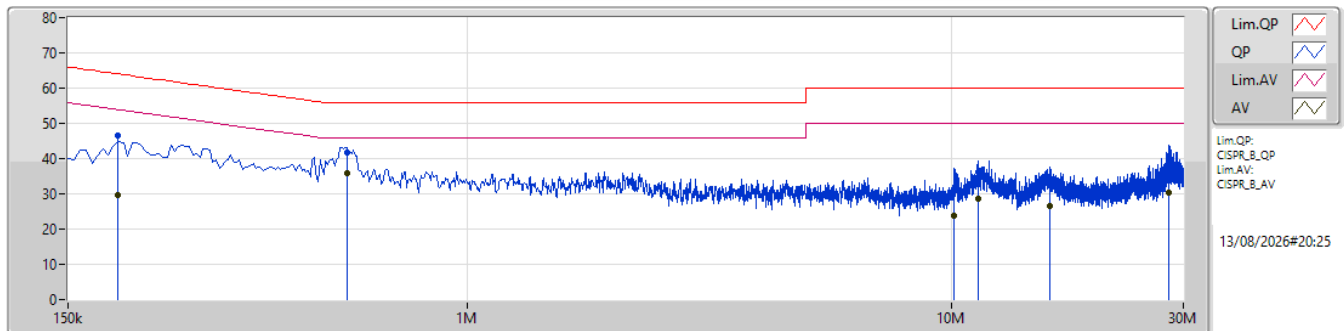
Conducted Emissions at Powerline

Appendix A

Summary

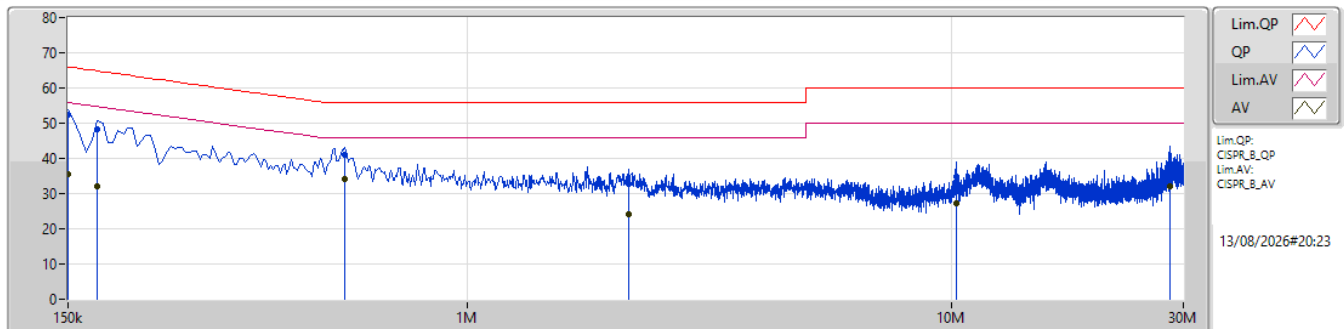
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	564k	35.78	46.00	-10.22	Line

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	190.5k	46.54	64.01	-17.47	9.93	Line	-	36.61	0.08	0.07	9.78						
AV	190.5k	29.72	54.01	-24.29	9.93	Line	-	19.79	0.08	0.07	9.78						
QP	564k	41.79	56.00	-14.21	10.12	Line	-	31.67	0.09	0.13	9.90						
AV	564k	35.78	46.00	-10.22	10.12	Line	"Worst"	25.66	0.09	0.13	9.90						
QP	10.109M	31.28	60.00	-28.72	10.63	Line	-	20.65	0.24	0.27	10.12						
AV	10.109M	23.75	50.00	-26.25	10.63	Line	-	13.12	0.24	0.27	10.12						
QP	11.351M	36.23	60.00	-23.77	10.73	Line	-	25.50	0.25	0.30	10.18						
AV	11.351M	28.67	50.00	-21.33	10.73	Line	-	17.94	0.25	0.30	10.18						
QP	15.932M	33.62	60.00	-26.38	10.98	Line	-	22.64	0.27	0.36	10.35						
AV	15.932M	26.62	50.00	-23.38	10.98	Line	-	15.64	0.27	0.36	10.35						
QP	28.019M	39.60	60.00	-20.40	11.05	Line	-	28.55	0.33	0.40	10.32						
AV	28.019M	30.46	50.00	-19.54	11.05	Line	-	19.41	0.33	0.40	10.32						

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	52.29	66.00	-13.71	10.04	Neutral	-	42.25	0.06	0.10	9.88						
AV	150k	35.47	56.00	-20.53	10.04	Neutral	-	25.43	0.06	0.10	9.88						
QP	172.5k	48.40	64.83	-16.43	9.96	Neutral	-	38.44	0.06	0.08	9.82						
AV	172.5k	32.14	54.83	-22.69	9.96	Neutral	-	22.18	0.06	0.08	9.82						
QP	559.5k	41.05	56.00	-14.95	10.09	Neutral	-	30.96	0.06	0.13	9.90						
AV	559.5k	33.99	46.00	-12.01	10.09	Neutral	"Worst"	23.90	0.06	0.13	9.90						
QP	2.153M	32.92	56.00	-23.08	9.96	Neutral	-	22.96	0.08	0.14	9.74						
AV	2.153M	24.06	46.00	-21.94	9.96	Neutral	-	14.10	0.08	0.14	9.74						
QP	10.221M	34.81	60.00	-25.19	10.60	Neutral	-	24.21	0.21	0.27	10.12						
AV	10.221M	27.40	50.00	-22.60	10.60	Neutral	-	16.80	0.21	0.27	10.12						
QP	28.131M	38.55	60.00	-21.45	11.07	Neutral	-	27.48	0.35	0.40	10.32						
AV	28.131M	32.07	50.00	-17.93	11.07	Neutral	-	21.00	0.35	0.40	10.32						

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)	663.75k	1.044M	1M04F1D	630k	1.042M
BT-LE(2Mbps)	597.5k	2.085M	2M09F1D	542.5k	2.08M

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

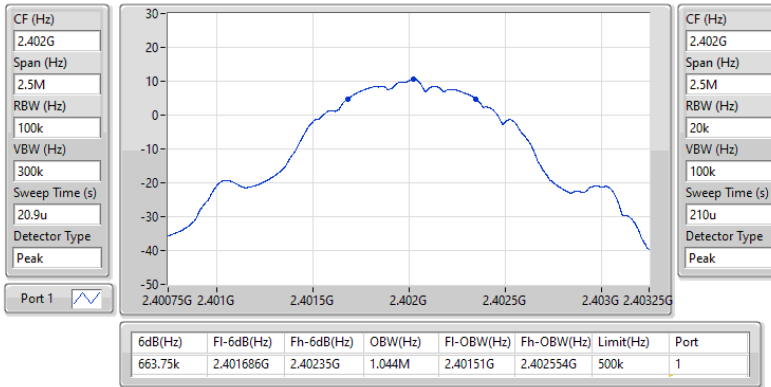
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	663.75k	1.044M
2440MHz	Pass	500k	630k	1.044M
2480MHz	Pass	500k	646.25k	1.042M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	542.5k	2.085M
2440MHz	Pass	500k	597.5k	2.08M
2480MHz	Pass	500k	592.5k	2.082M

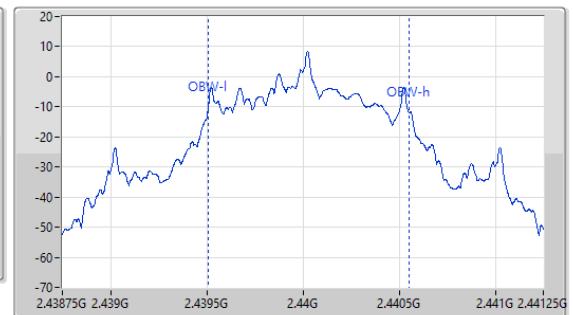
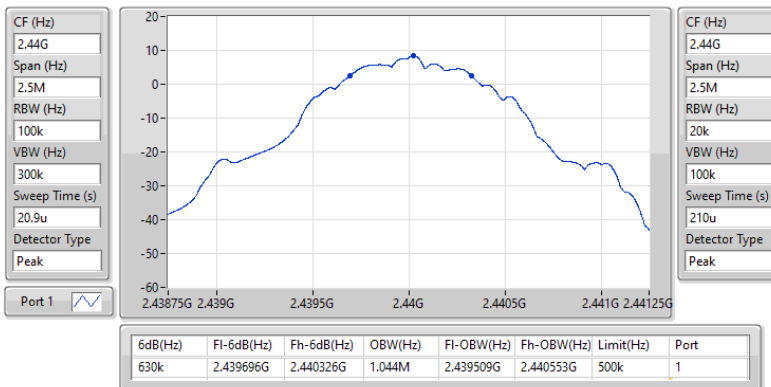
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

14/07/2026


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

14/07/2026

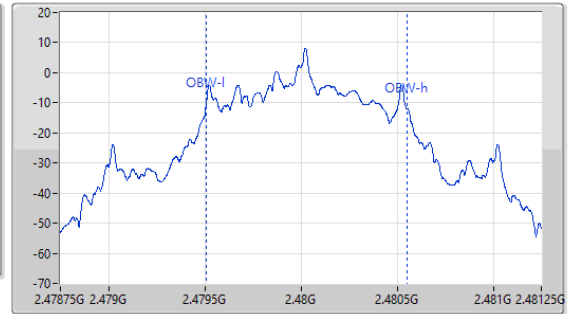
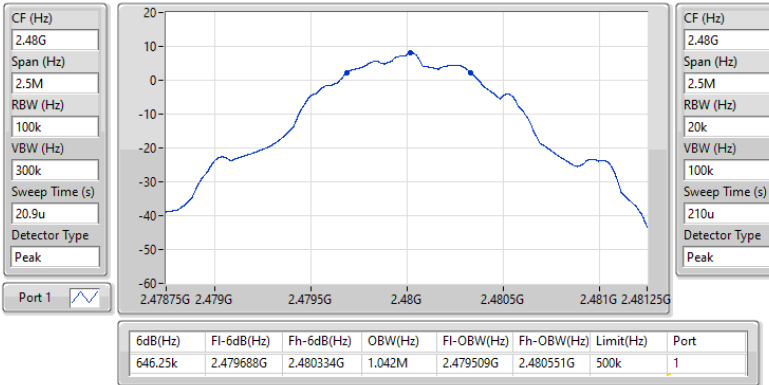


2.4-2.4835GHz_BT-LE(1Mbps)

EBW-DTS

2480MHz

14/07/2026

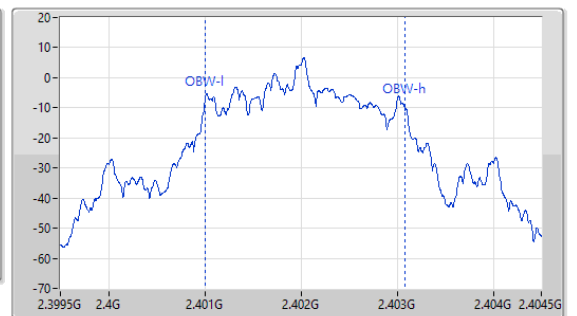
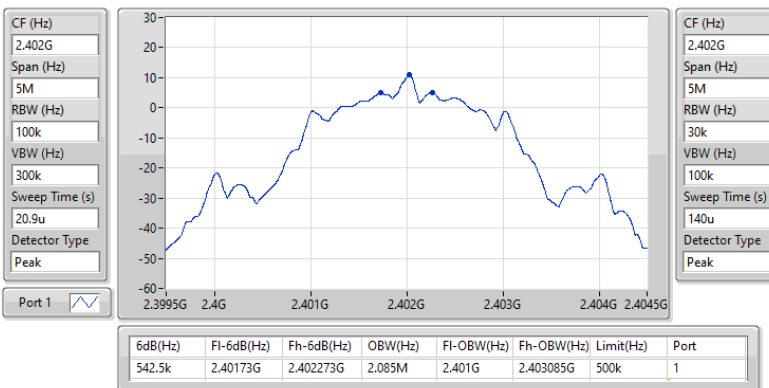


2.4-2.4835GHz_BT-LE(2Mbps)

EBW-DTS

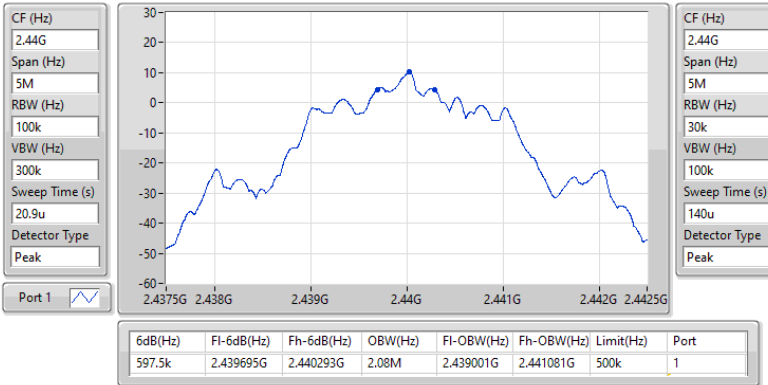
2402MHz

14/07/2026

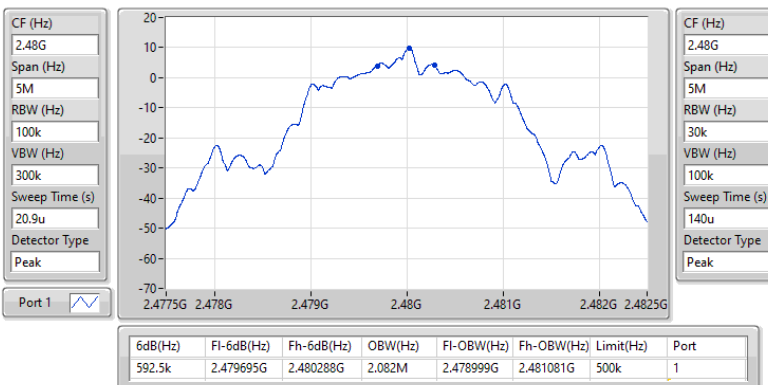


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2440MHz

14/07/2026


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

14/07/2026





Average Power-DTS

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	8.47	0.00703
BT-LE(2Mbps)	9.97	0.00993



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	5.81	8.47	30.00
2440MHz	Pass	5.81	7.91	30.00
2480MHz	Pass	5.81	7.44	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	5.81	9.97	30.00
2440MHz	Pass	5.81	9.47	30.00
2480MHz	Pass	5.81	9.25	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	7.79
BT-LE(2Mbps)	6.30

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	5.81	7.79	8.00
2440MHz	Pass	5.81	7.03	8.00
2480MHz	Pass	5.81	7.17	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	5.81	6.30	8.00
2440MHz	Pass	5.81	2.48	8.00
2480MHz	Pass	5.81	3.12	8.00

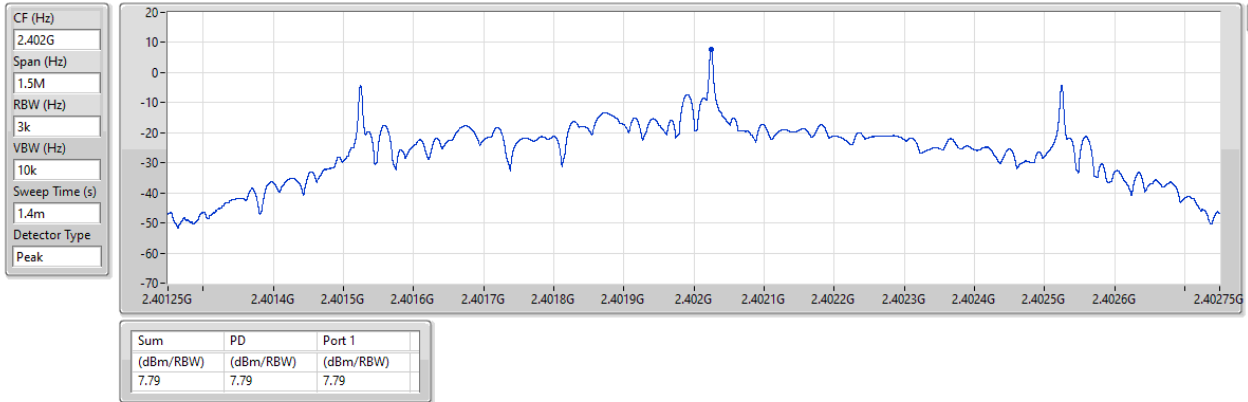
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

14/07/2026

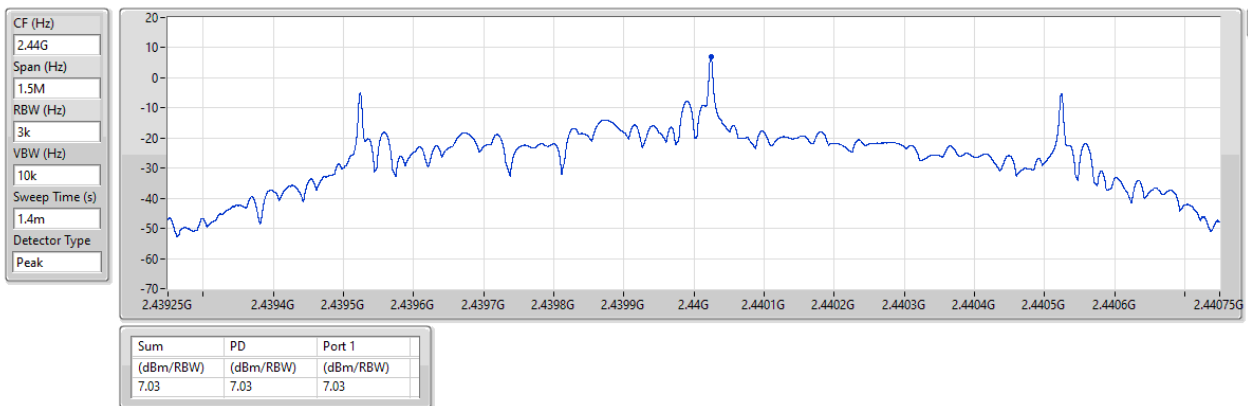


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

14/07/2026

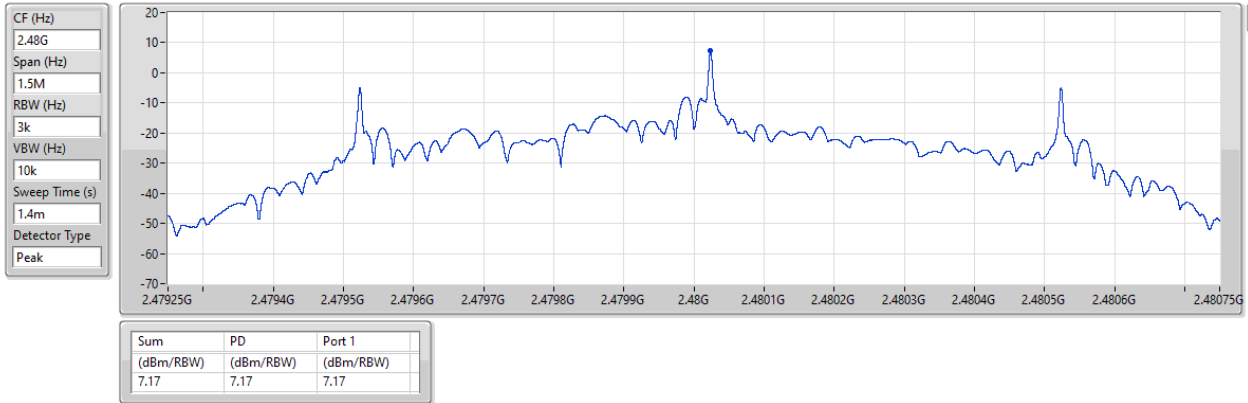


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2480MHz

14/07/2026

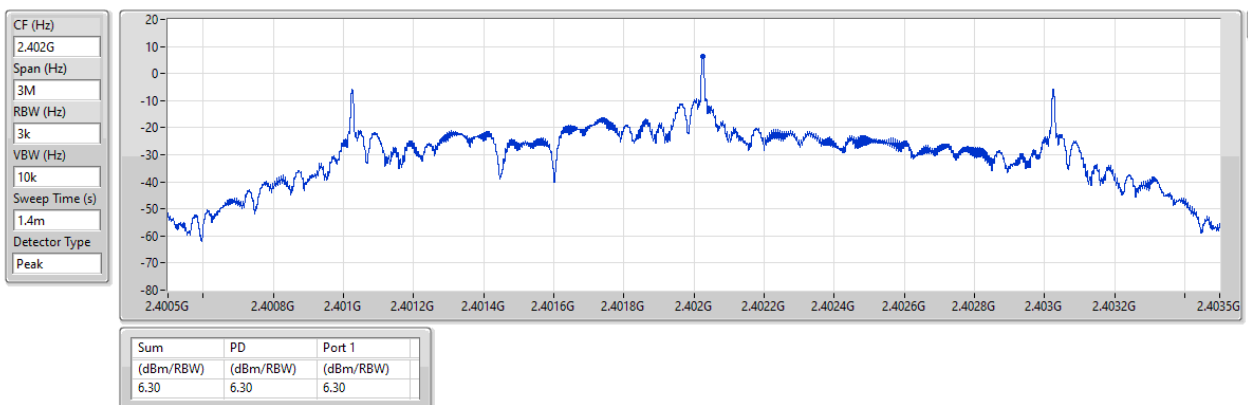


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

14/07/2026

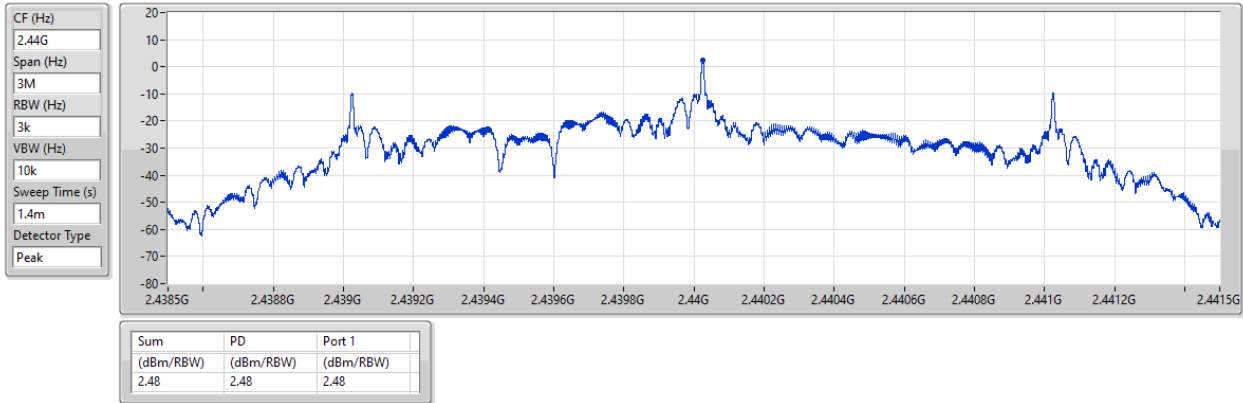


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

14/07/2026

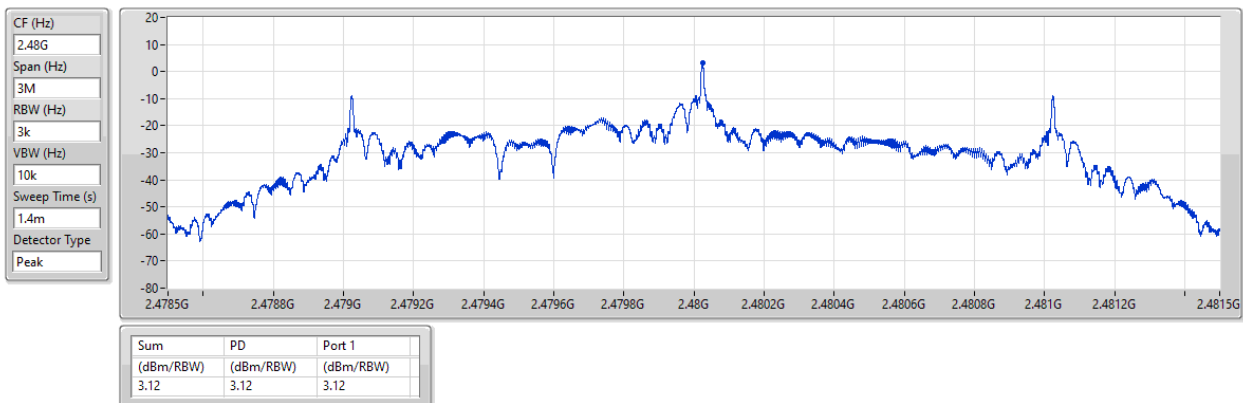


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2480MHz

14/07/2026



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.402G	8.99	-21.01	2.02045G	-53.69	2.39992G	-51.89	2.4G	-50.09	2.50154G	-53.24	21.88142G	-46.95	1
BT-LE(2Mbps)	Pass	2.402G	10.85	-19.15	1.77723G	-53.54	2.4G	-22.63	2.4G	-22.10	2.5035G	-53.61	22.00234G	-45.70	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	2.402G	8.99	-21.01	2.02045G	-53.69	2.39992G	-51.89	2.4G	-50.09	2.50154G	-53.24	21.88142G	-46.95	1
2440MHz	Pass	2.402G	8.99	-21.01	812.55M	-53.02	2.39308G	-53.17	2.4G	-56.43	2.50014G	-52.25	21.95735G	-45.60	1
2480MHz	Pass	2.402G	8.99	-21.01	2.17085G	-52.77	2.39304G	-52.56	2.4G	-55.62	2.50238G	-52.73	22.00234G	-47.05	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	10.85	-19.15	1.77723G	-53.54	2.4G	-22.63	2.4G	-22.10	2.5035G	-53.61	22.00234G	-45.70	1
2440MHz	Pass	2.402G	10.85	-19.15	1.9758G	-53.63	2.39408G	-53.10	2.4G	-56.41	2.5021G	-52.37	21.90954G	-46.45	1
2480MHz	Pass	2.402G	10.85	-19.15	826.65M	-51.10	2.39244G	-52.24	2.4G	-55.62	2.50082G	-53.22	21.60584G	-46.94	1

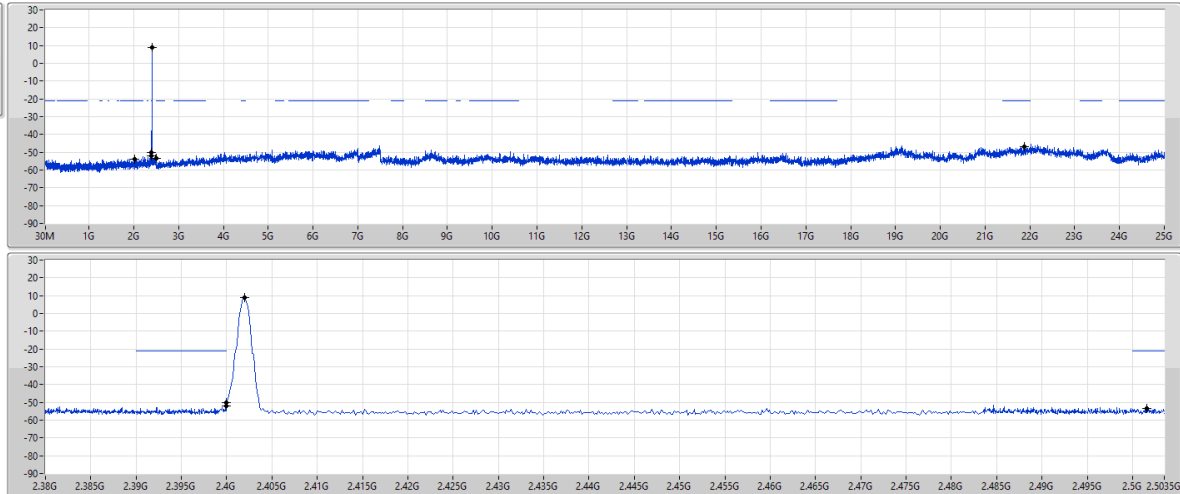
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

14/07/2026

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402G	8.99	-21.01	2.02043G	-53.69	2.39992G	-51.89	2.4G	-50.09	2.50154G	-53.24	21.88142G	-46.95	1

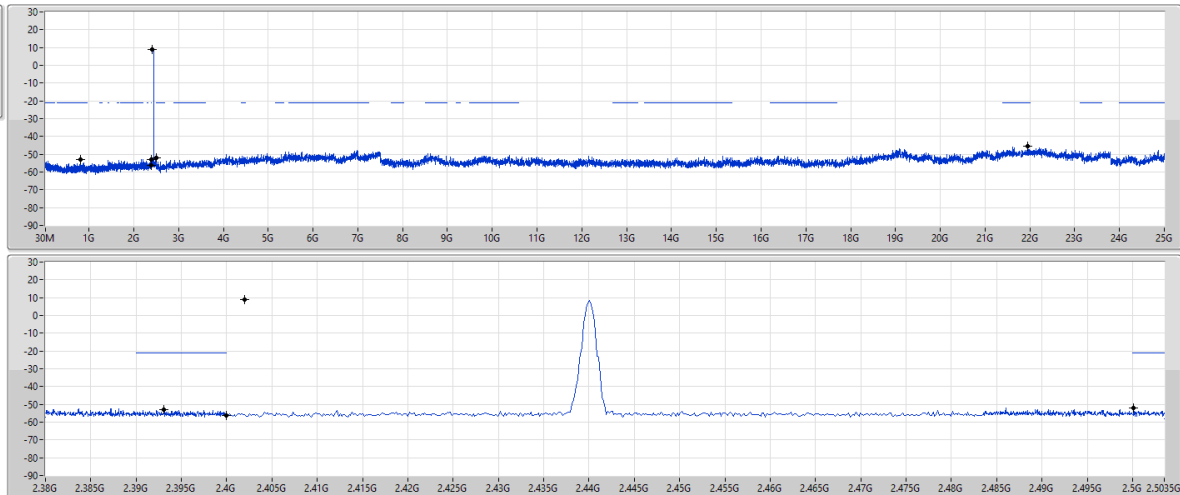
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2440MHz

14/07/2026

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



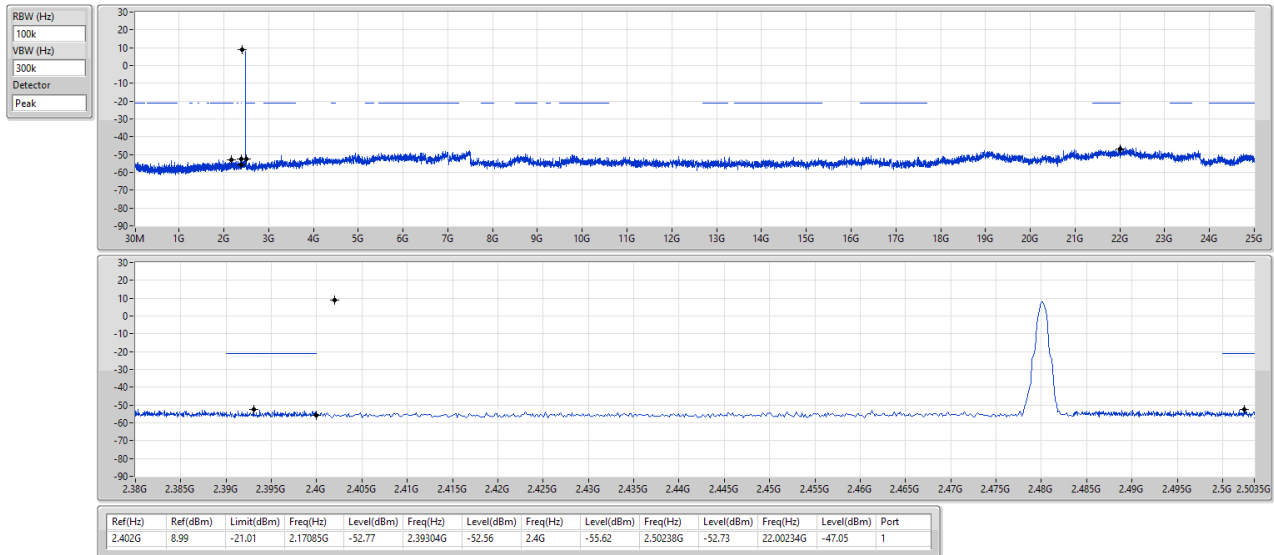
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402G	8.99	-21.01	812.55M	-53.02	2.39308G	-53.17	2.4G	-56.43	2.50014G	-52.25	21.95735G	-45.60	1

2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2480MHz

14/07/2026

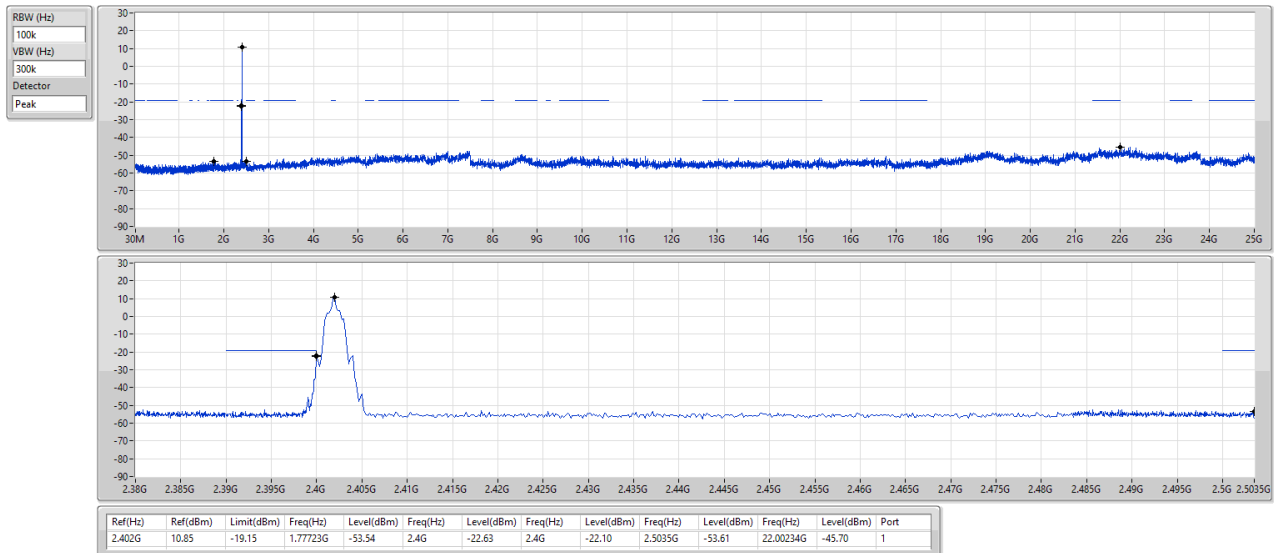


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

14/07/2026

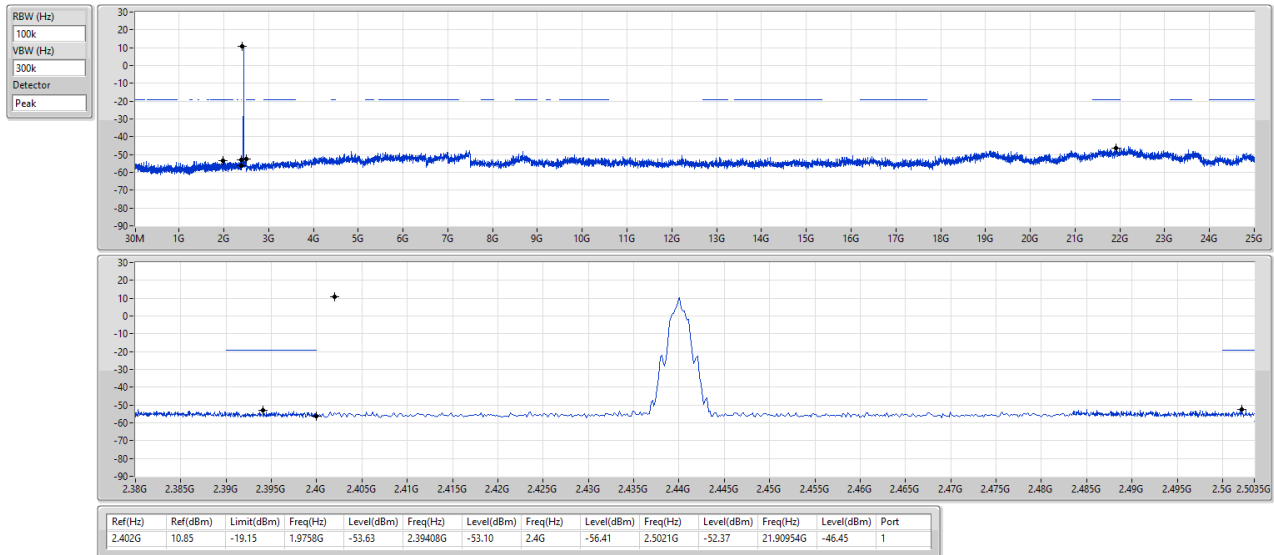


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2440MHz

14/07/2026

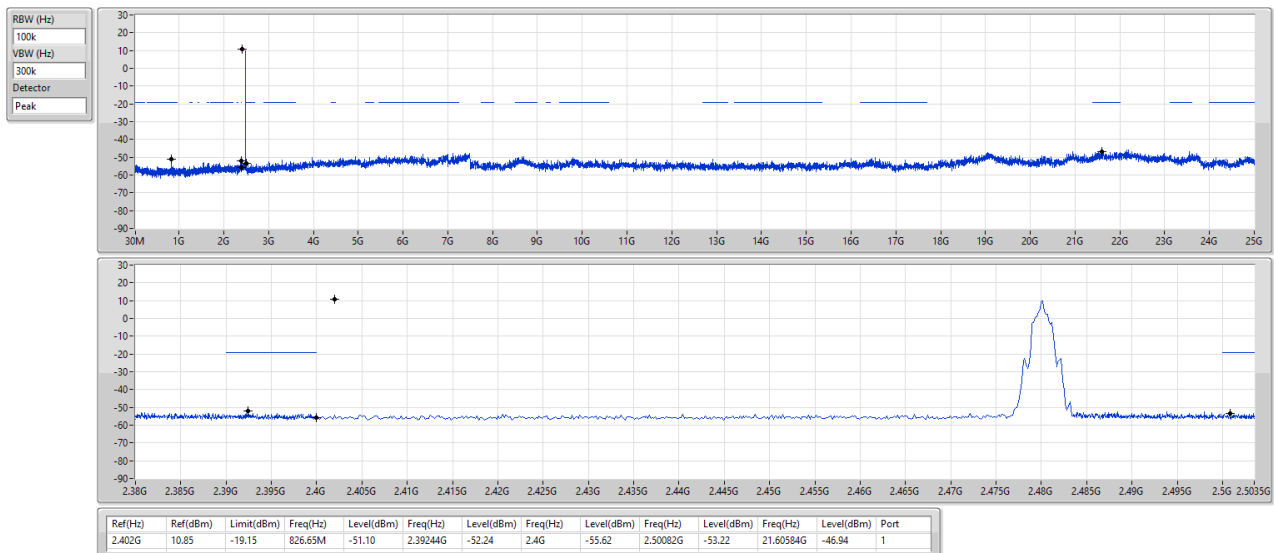


2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2480MHz

14/07/2026





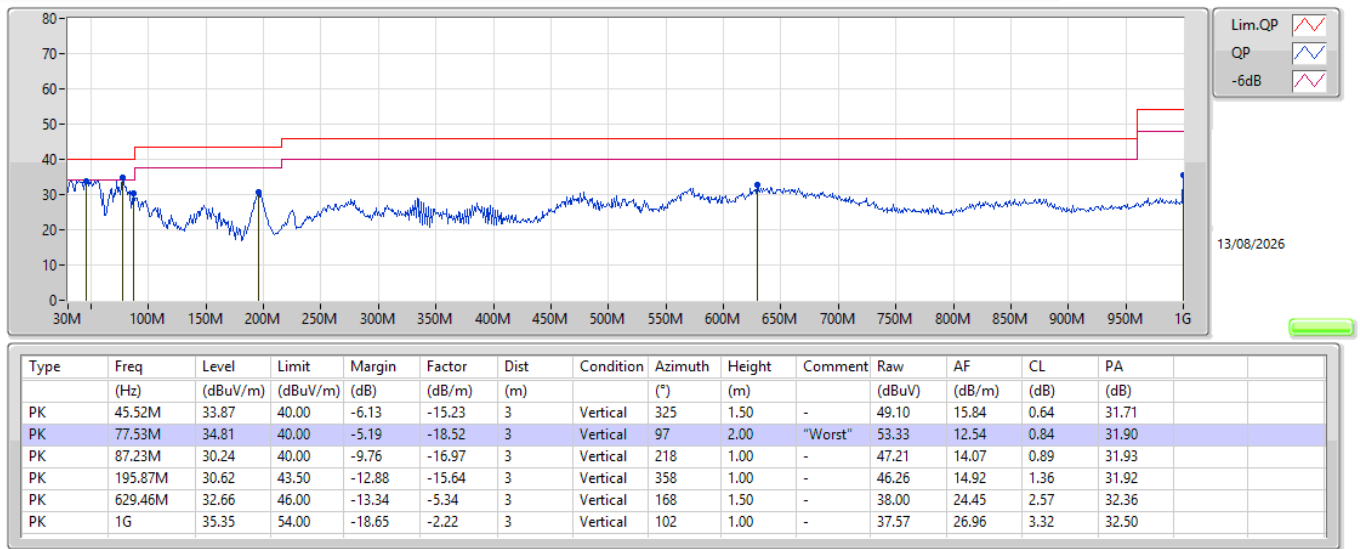
Radiated Emissions below 1GHz

Appendix F.1

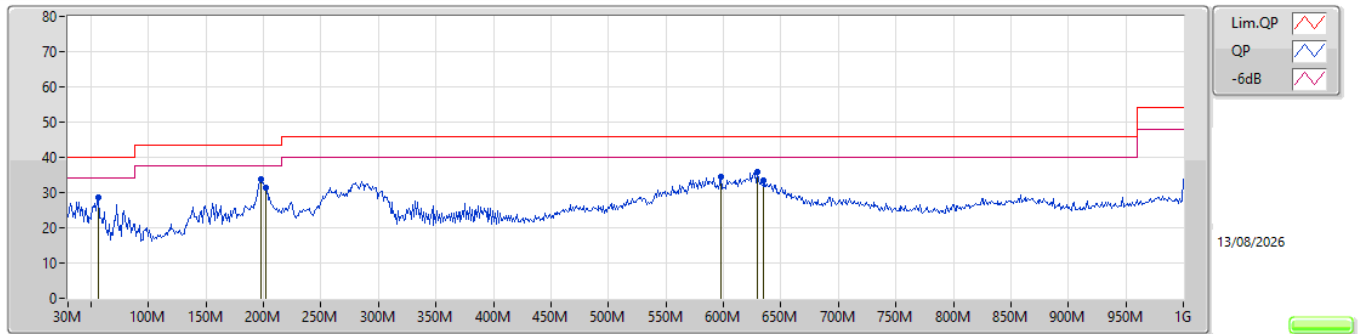
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	PK	77.53M	34.81	40.00	-5.19	Vertical

Mode 3



Mode 3



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	56.19M	28.75	40.00	-11.25	-18.43	3	Horizontal	118	2.00	-	47.18	12.58	0.71	31.72		
PK	197.81M	33.66	43.50	-9.84	-15.58	3	Horizontal	281	1.00	"Worst"	49.24	14.97	1.37	31.92		
PK	201.69M	31.31	43.50	-12.19	-15.44	3	Horizontal	69	1.50	-	46.75	15.10	1.39	31.93		
PK	597.45M	34.52	46.00	-11.48	-5.67	3	Horizontal	211	1.25	-	40.19	24.23	2.48	32.38		
PK	629.46M	35.73	46.00	-10.27	-5.34	3	Horizontal	197	1.00	-	41.07	24.45	2.57	32.36		
PK	635.28M	33.54	46.00	-12.46	-5.22	3	Horizontal	212	1.00	-	38.76	24.56	2.58	32.36		

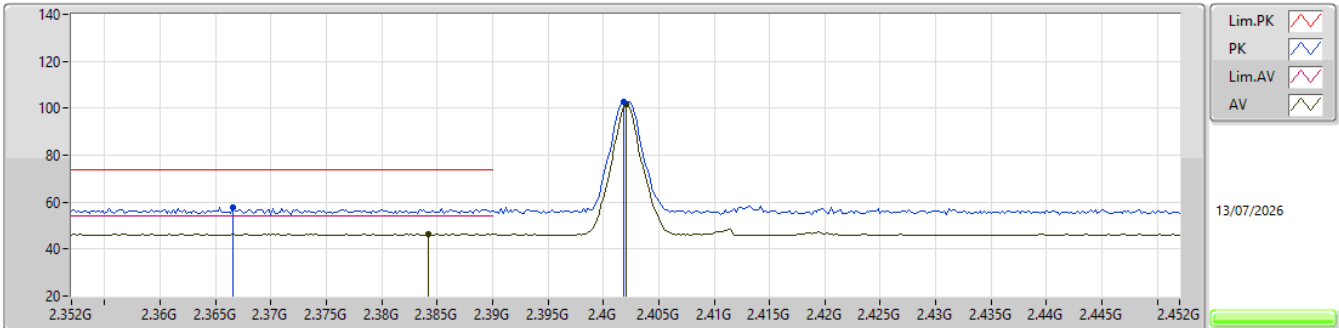


Summary

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	52.58	54.00	-1.42	3	Horizontal	257	2.42	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

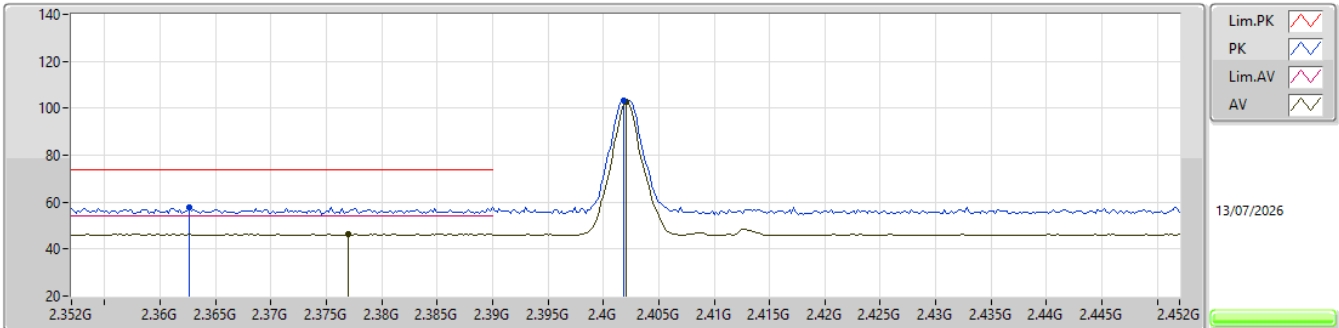


EUT_Y_1TX
Setting 12
02-D-L-4

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	2.3666G	57.78	74.00	-16.22	24.96	3	Vertical	250	2.09	-	28.40	4.42	-			
AV	2.3842G	46.51	54.00	-7.49	13.57	3	Vertical	250	2.09	-	28.50	4.44	-			
PK	2.4018G	102.64	Inf	-Inf	69.79	3	Vertical	250	2.09	-	28.40	4.45	-			
AV	2.402G	101.65	Inf	-Inf	68.80	3	Vertical	250	2.09	-	28.40	4.45	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

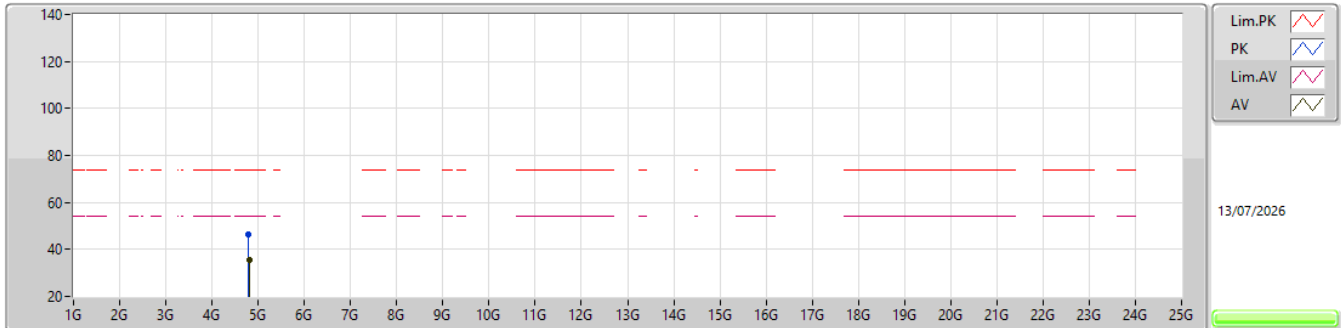


EUT_Y_1TX
Setting 12
02-D-L-4

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	2.3626G	58.01	74.00	-15.99	25.19	3	Horizontal	90	2.69	-	28.40	4.42	-			
AV	2.377G	46.33	54.00	-7.67	13.43	3	Horizontal	90	2.69	-	28.47	4.43	-			
PK	2.4018G	103.53	Inf	-Inf	70.68	3	Horizontal	90	2.69	-	28.40	4.45	-			
AV	2.402G	102.62	Inf	-Inf	69.77	3	Horizontal	90	2.69	-	28.40	4.45	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

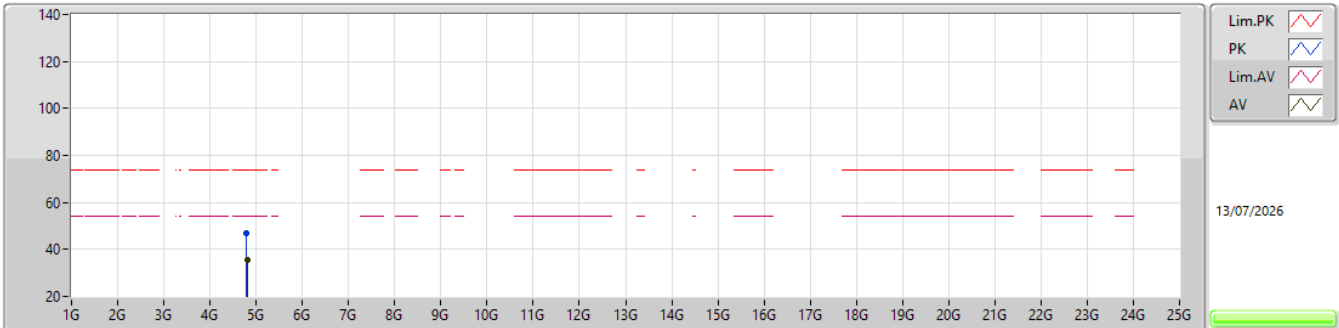


EUT_V_1TX
Setting 12
02-D-L-4

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	4.79746G	46.51	74.00	-27.49	36.89	3	Vertical	193	1.72	-	33.17	7.55	31.10			
AV	4.80088G	35.56	54.00	-18.44	25.90	3	Vertical	193	1.72	-	33.20	7.55	31.09			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

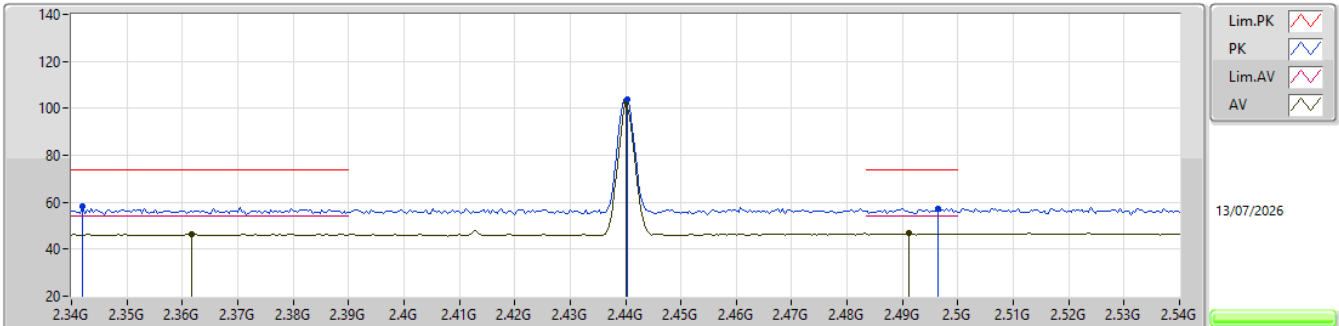


EUT_V_1TX
Setting 12
02-D-L-4

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	4.78924G	47.07	74.00	-26.93	37.54	3	Horizontal	347	2.04	-	33.09	7.54	31.10			
AV	4.80238G	35.49	54.00	-18.51	25.83	3	Horizontal	347	2.04	-	33.20	7.55	31.09			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

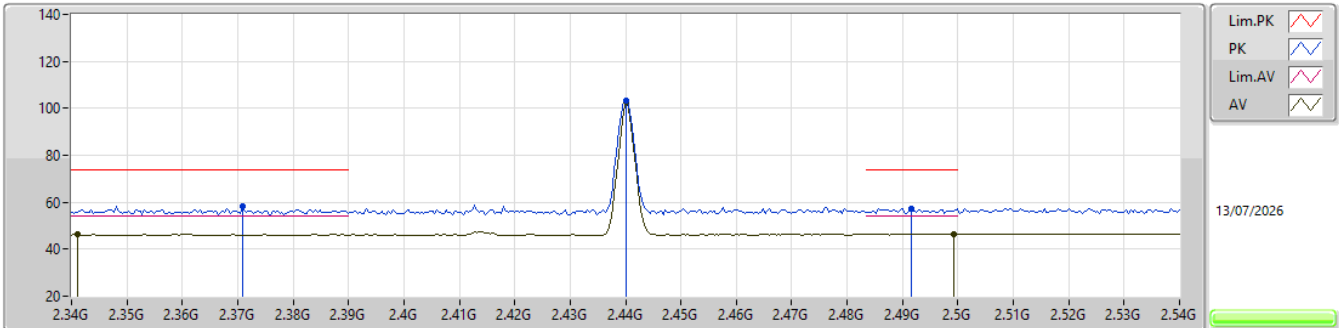


EUT_V_1TX
Setting 12
02-D-L-4

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	2.342G	58.15	74.00	-15.85	25.45	3	Vertical	248	2.24	-	28.30	4.40	-				
AV	2.3616G	46.57	54.00	-7.43	13.75	3	Vertical	248	2.24	-	28.40	4.42	-				
PK	2.4404G	103.65	Inf	-Inf	70.74	3	Vertical	248	2.24	-	28.40	4.51	-				
AV	2.44G	102.74	Inf	-Inf	69.83	3	Vertical	248	2.24	-	28.40	4.51	-				
PK	2.4964G	57.50	74.00	-16.50	24.14	3	Vertical	248	2.24	-	28.76	4.60	-				
AV	2.4912G	46.64	54.00	-7.36	13.33	3	Vertical	248	2.24	-	28.71	4.60	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

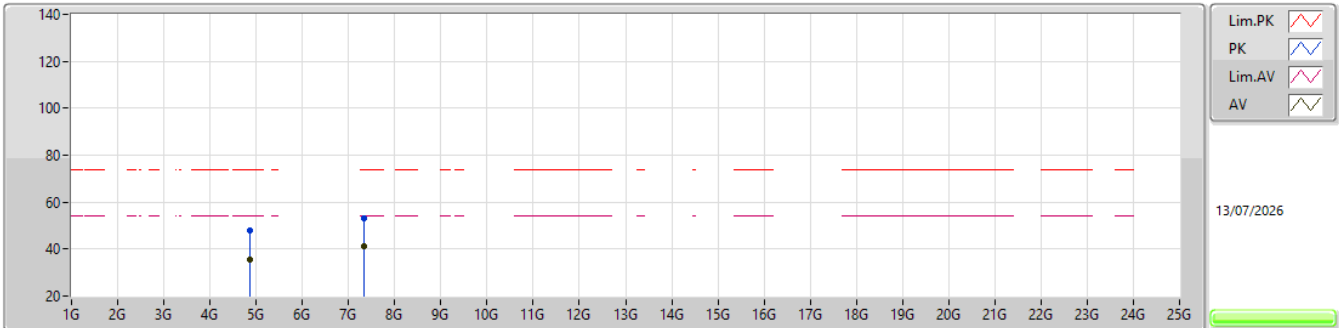


EUT_V_1TX
Setting 12
02-D-L-4

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	2.3708G	58.07	74.00	-15.93	25.23	3	Horizontal	86	2.68	-	28.41	4.43	-				
AV	2.3412G	46.41	54.00	-7.59	13.71	3	Horizontal	86	2.68	-	28.30	4.40	-				
PK	2.44G	103.41	Inf	-Inf	70.50	3	Horizontal	86	2.68	-	28.40	4.51	-				
AV	2.44G	102.51	Inf	-Inf	69.60	3	Horizontal	86	2.68	-	28.40	4.51	-				
PK	2.4916G	57.26	74.00	-16.74	23.94	3	Horizontal	86	2.68	-	28.72	4.60	-				
AV	2.4992G	46.57	54.00	-7.43	13.17	3	Horizontal	86	2.68	-	28.79	4.61	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

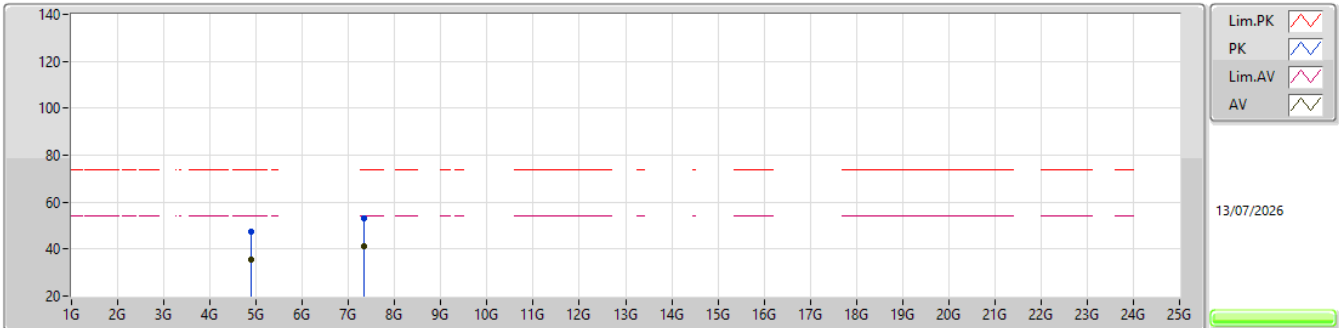


EUT_Y_1TX
Setting 12
02-D-L-4

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	4.87232G	48.00	74.00	-26.00	38.39	3	Vertical	92	1.80	-	33.10	7.57	31.06				
AV	4.87532G	35.29	54.00	-18.71	25.67	3	Vertical	92	1.80	-	33.10	7.57	31.05				
PK	7.33284G	53.31	74.00	-20.69	39.08	3	Vertical	240	2.02	-	36.47	9.36	31.60				
AV	7.33476G	41.07	54.00	-12.93	26.84	3	Vertical	240	2.02	-	36.47	9.36	31.60				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

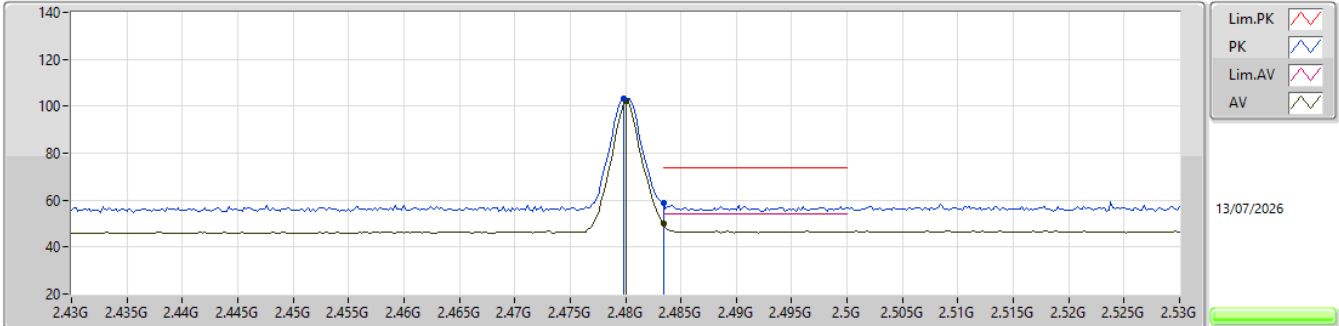


EUT_Y_1TX
Setting 12
02-D-L-4

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	4.88882G	47.27	74.00	-26.73	37.65	3	Horizontal	64	1.38	-	33.10	7.57	31.05			
AV	4.87802G	35.35	54.00	-18.65	25.73	3	Horizontal	64	1.38	-	33.10	7.57	31.05			
PK	7.33158G	53.07	74.00	-20.93	38.85	3	Horizontal	348	1.55	-	36.46	9.36	31.60			
AV	7.32846G	41.04	54.00	-12.96	26.82	3	Horizontal	348	1.55	-	36.46	9.36	31.60			

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

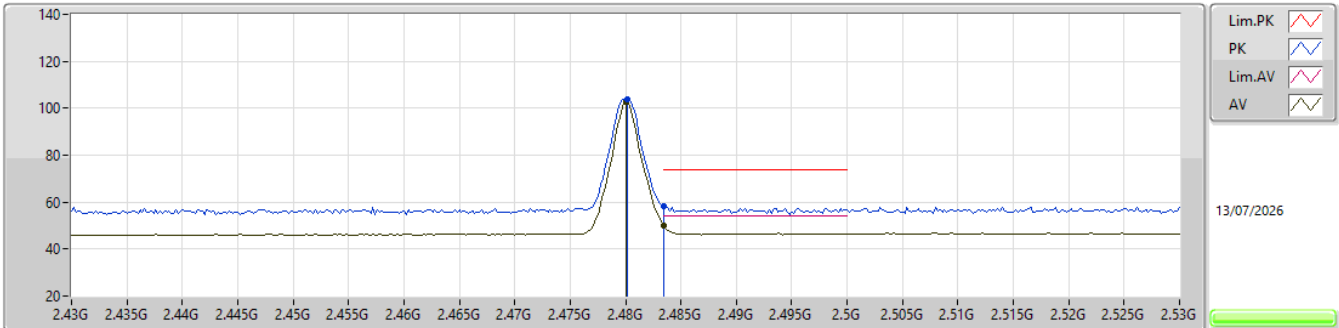


EUT_Y_1TX
Setting 12
02-D-L-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.4798G	103.14	Inf	-Inf	69.86	3	Vertical	248	2.21	-	28.70	4.58	-				
AV	2.48G	102.17	Inf	-Inf	68.89	3	Vertical	248	2.21	-	28.70	4.58	-				
PK	2.4835G	59.02	74.00	-14.98	25.74	3	Vertical	248	2.21	-	28.70	4.58	-				
AV	2.4835G	49.86	54.00	-4.14	16.58	3	Vertical	248	2.21	-	28.70	4.58	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

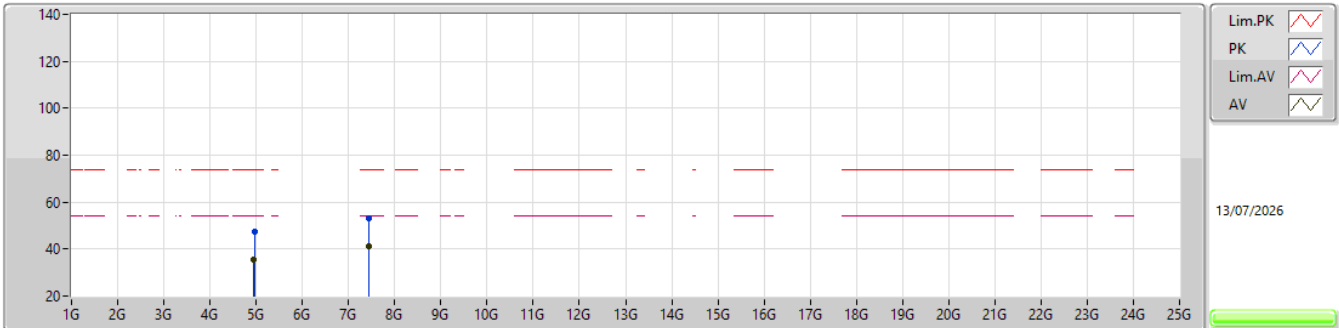


EUT_Y_1TX
Setting 12
02-D-L-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)					
PK	2.4802G	103.68	Inf	-Inf	70.40	3	Horizontal	257	2.43	-	28.70	4.58	-					
AV	2.48G	102.79	Inf	-Inf	69.51	3	Horizontal	257	2.43	-	28.70	4.58	-					
PK	2.4835G	58.53	74.00	-15.47	25.25	3	Horizontal	257	2.43	-	28.70	4.58	-					
AV	2.4835G	50.17	54.00	-3.83	16.89	3	Horizontal	257	2.43	-	28.70	4.58	-					

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

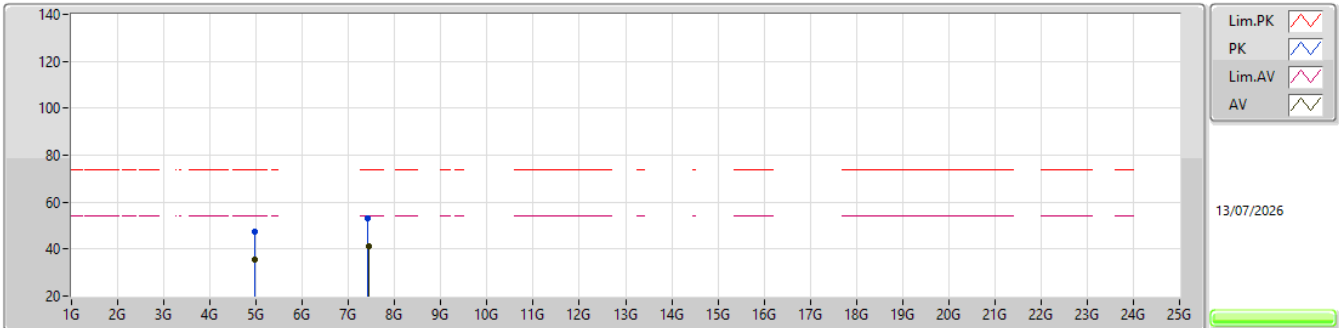


EUT_Y_1TX
Setting 12
02-D-L-4

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	4.96768G	47.52	74.00	-26.48	37.60	3	Vertical	277	2.19	-	33.34	7.59	31.01				
AV	4.94932G	35.76	54.00	-18.24	25.89	3	Vertical	277	2.19	-	33.30	7.59	31.02				
PK	7.44198G	53.35	74.00	-20.65	39.11	3	Vertical	261	2.42	-	36.43	9.39	31.58				
AV	7.45266G	41.16	54.00	-12.84	26.92	3	Vertical	261	2.42	-	36.41	9.40	31.57				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

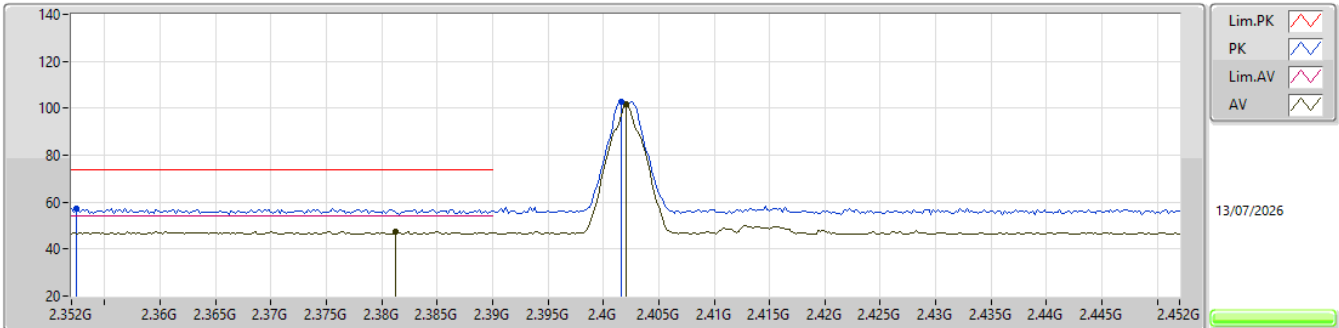


EUT_Y_1TX
Setting 12
02-D-L-4

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	4.95724G	47.47	74.00	-26.53	37.58	3	Horizontal	218	1.15	-	33.31	7.59	31.01			
AV	4.9741G	35.59	54.00	-18.41	25.65	3	Horizontal	218	1.15	-	33.35	7.59	31.00			
PK	7.42542G	53.26	74.00	-20.74	38.96	3	Horizontal	329	1.36	-	36.50	9.38	31.58			
AV	7.4292G	41.31	54.00	-12.69	27.03	3	Horizontal	329	1.36	-	36.48	9.38	31.58			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

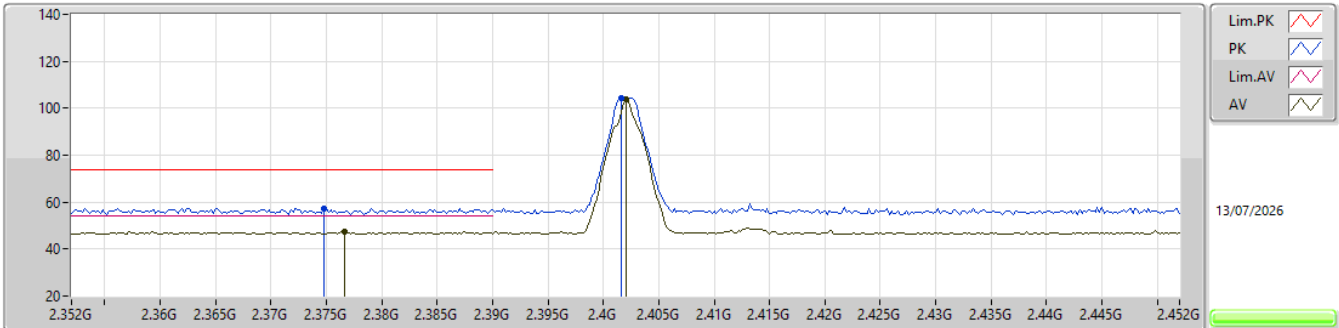


EUT_Y_1TX
Setting 12
02-D-L-4

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	2.3524G	57.21	74.00	-16.79	24.48	3	Vertical	245	2.32	-	28.32	4.41	-			
AV	2.3812G	47.66	54.00	-6.34	14.73	3	Vertical	245	2.32	-	28.50	4.43	-			
PK	2.4016G	102.61	Inf	-Inf	69.76	3	Vertical	245	2.32	-	28.40	4.45	-			
AV	2.402G	101.77	Inf	-Inf	68.92	3	Vertical	245	2.32	-	28.40	4.45	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

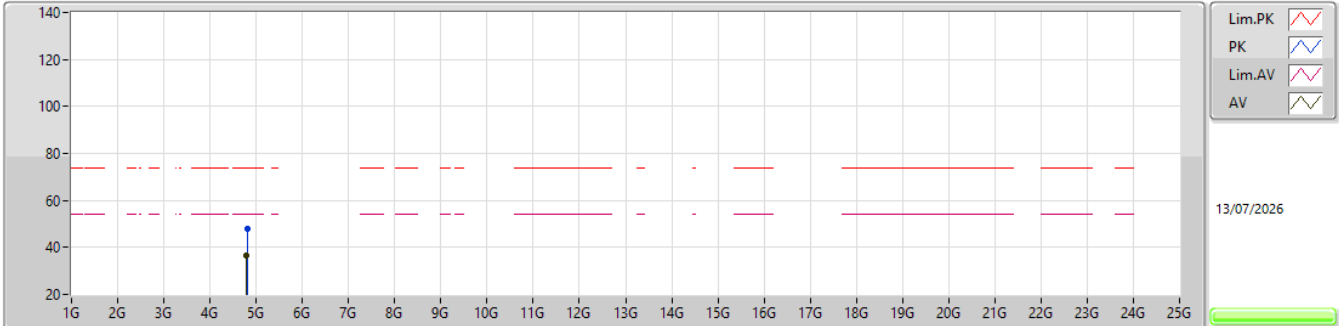


EUT_Y_1TX
Setting 12
02-D-L-4

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	2.3748G	57.41	74.00	-16.59	24.53	3	Horizontal	89	2.71	-	28.45	4.43	-			
AV	2.3766G	47.45	54.00	-6.55	14.55	3	Horizontal	89	2.71	-	28.47	4.43	-			
PK	2.4016G	104.29	Inf	-Inf	71.44	3	Horizontal	89	2.71	-	28.40	4.45	-			
AV	2.402G	103.56	Inf	-Inf	70.71	3	Horizontal	89	2.71	-	28.40	4.45	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

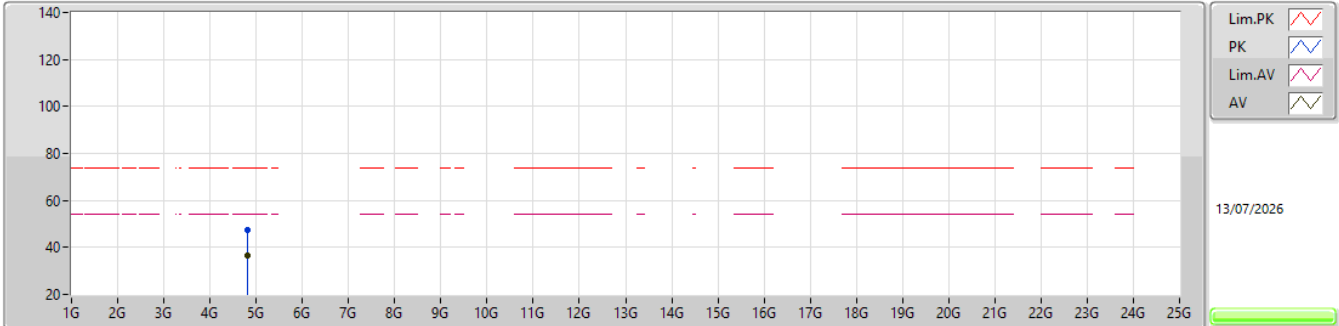


EUT_V_1TX
Setting 12
02-D-L-4

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	4.81636G	47.70	74.00	-26.30	38.07	3	Vertical	161	2.23	-	33.17	7.55	31.09			
AV	4.79056G	36.72	54.00	-17.28	27.17	3	Vertical	161	2.23	-	33.11	7.54	31.10			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

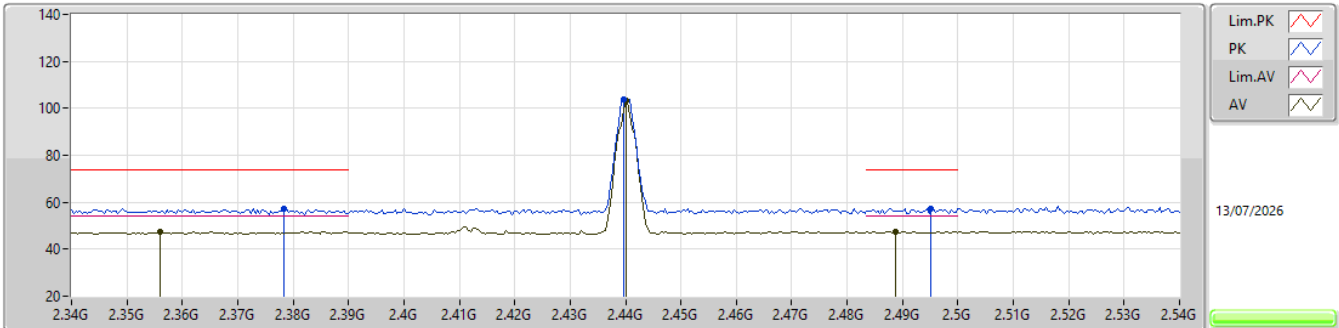


EUT_V_1TX
Setting 12
02-D-L-4

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	4.81402G	47.54	74.00	-26.46	37.91	3	Horizontal	2	2.03	-	33.17	7.55	31.09			
AV	4.8022G	36.48	54.00	-17.52	26.82	3	Horizontal	2	2.03	-	33.20	7.55	31.09			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

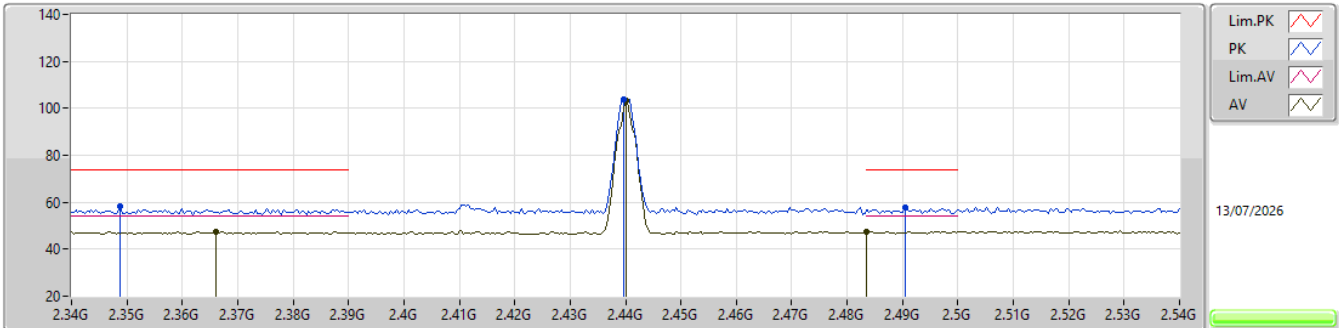


EUT_Y_1TX
Setting 12
02-D-L-4

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	2.3784G	57.22	74.00	-16.78	24.31	3	Vertical	248	2.23	-	28.48	4.43	-				
AV	2.356G	47.48	54.00	-6.52	14.71	3	Vertical	248	2.23	-	28.36	4.41	-				
PK	2.4396G	103.80	Inf	-Inf	70.89	3	Vertical	248	2.23	-	28.40	4.51	-				
AV	2.44G	103.03	Inf	-Inf	70.12	3	Vertical	248	2.23	-	28.40	4.51	-				
PK	2.4952G	57.49	74.00	-16.51	24.14	3	Vertical	248	2.23	-	28.75	4.60	-				
AV	2.4888G	47.43	54.00	-6.57	14.14	3	Vertical	248	2.23	-	28.70	4.59	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

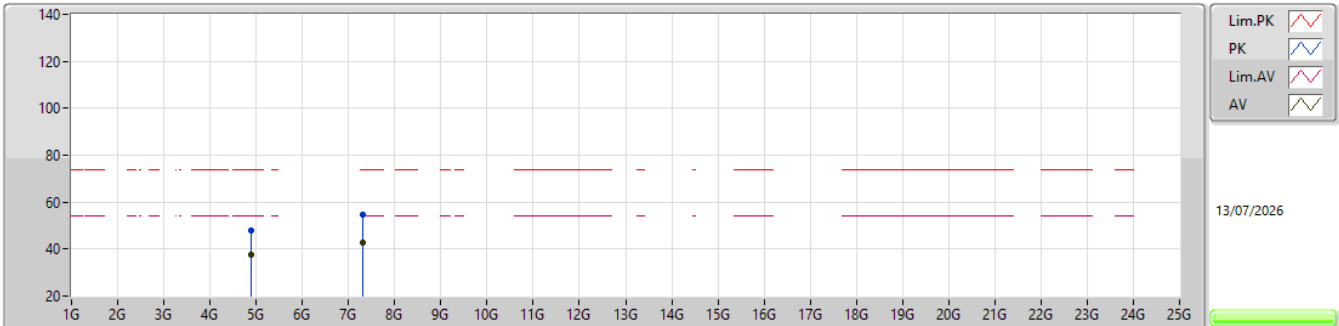


EUT_Y_1TX
Setting 12
02-D-L-4

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	2.3488G	58.08	74.00	-15.92	25.37	3	Horizontal	83	2.60	-	28.30	4.41	-				
AV	2.366G	47.45	54.00	-6.55	14.63	3	Horizontal	83	2.60	-	28.40	4.42	-				
PK	2.4396G	104.02	Inf	-Inf	71.11	3	Horizontal	83	2.60	-	28.40	4.51	-				
AV	2.44G	103.13	Inf	-Inf	70.22	3	Horizontal	83	2.60	-	28.40	4.51	-				
PK	2.4904G	57.63	74.00	-16.37	24.34	3	Horizontal	83	2.60	-	28.70	4.59	-				
AV	2.4835G	47.61	54.00	-6.39	14.33	3	Horizontal	83	2.60	-	28.70	4.58	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

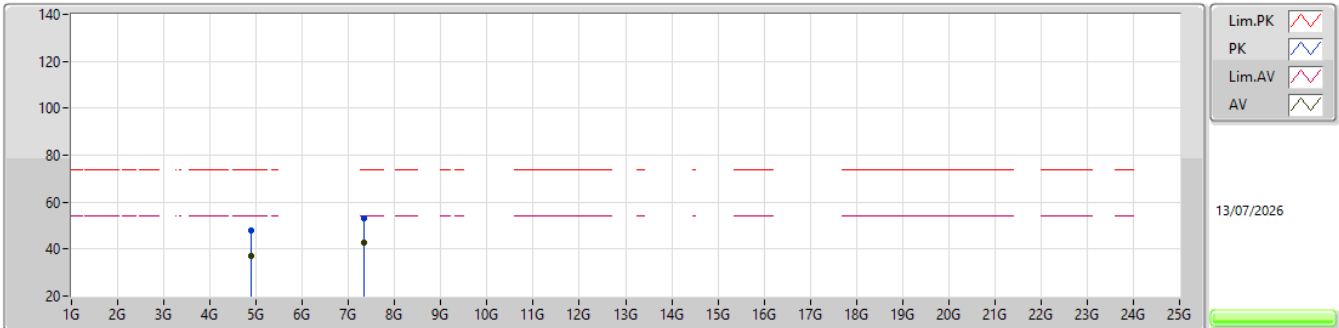


EUT_Y_1TX
Setting 12
02-D-L-4

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	4.88912G	48.07	74.00	-25.93	38.45	3	Vertical	359	1.80	-	33.10	7.57	31.05				
AV	4.88066G	37.65	54.00	-16.35	28.03	3	Vertical	359	1.80	-	33.10	7.57	31.05				
PK	7.31508G	54.40	74.00	-19.60	40.22	3	Vertical	46	1.80	-	36.43	9.36	31.61				
AV	7.31472G	42.70	54.00	-11.30	28.52	3	Vertical	46	1.80	-	36.43	9.36	31.61				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

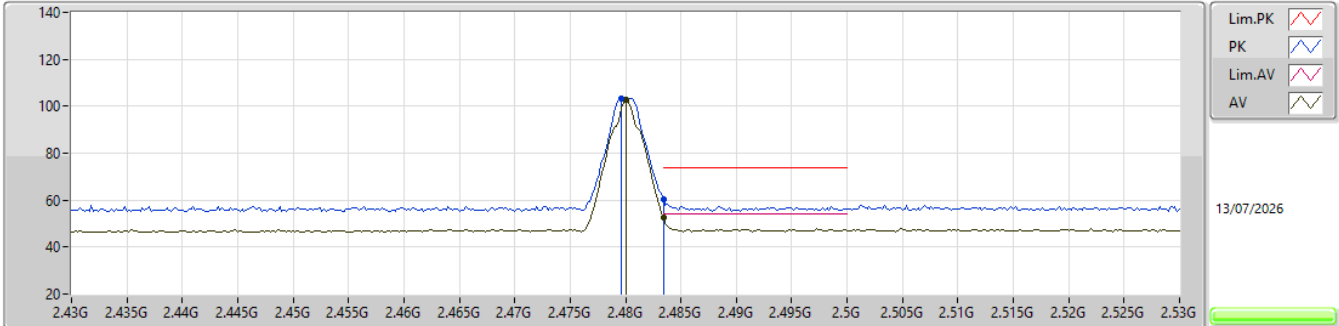


EUT_Y_1TX
Setting 12
02-D-L-4

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	4.88816G	48.13	74.00	-25.87	38.51	3	Horizontal	360	1.80	-	33.10	7.57	31.05				
AV	4.89212G	37.23	54.00	-16.77	27.61	3	Horizontal	360	1.80	-	33.10	7.57	31.05				
PK	7.32324G	52.88	74.00	-21.12	38.68	3	Horizontal	296	1.18	-	36.45	9.36	31.61				
AV	7.33284G	42.94	54.00	-11.06	28.71	3	Horizontal	296	1.18	-	36.47	9.36	31.60				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

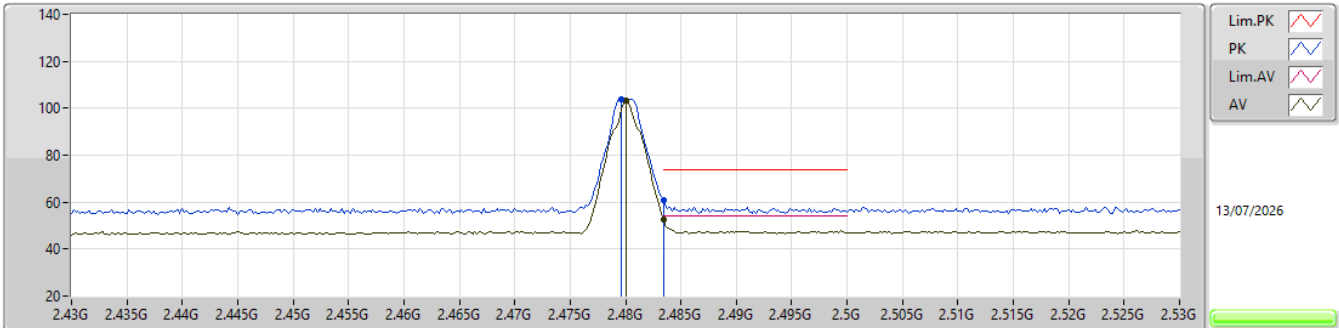


EUT_Y_1TX
Setting 12
02-D-L-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.4796G	103.40	Inf	-Inf	70.12	3	Vertical	246	2.19	-	28.70	4.58	-				
AV	2.48G	102.59	Inf	-Inf	69.31	3	Vertical	246	2.19	-	28.70	4.58	-				
PK	2.4835G	60.59	74.00	-13.41	27.31	3	Vertical	246	2.19	-	28.70	4.58	-				
AV	2.4835G	52.34	54.00	-1.66	19.06	3	Vertical	246	2.19	-	28.70	4.58	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

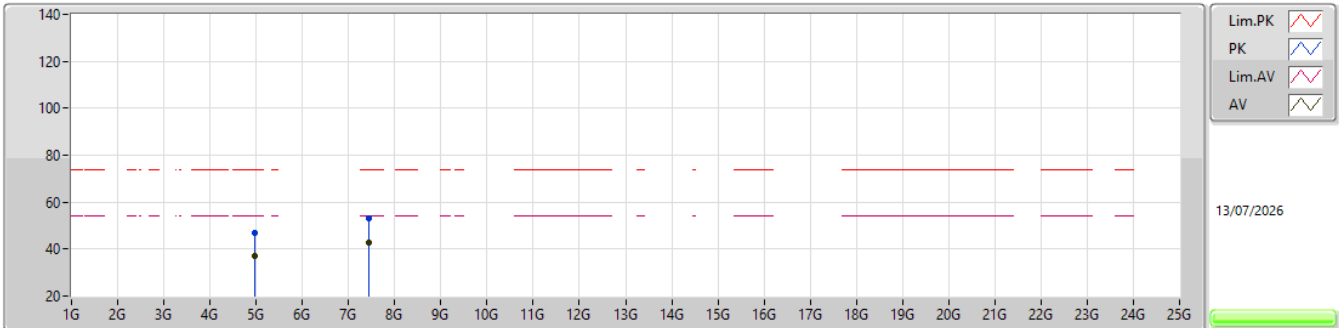


EUT_Y_1TX
Setting 12
02-D-L-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)				
PK	2.4796G	103.87	Inf	-Inf	70.59	3	Horizontal	257	2.42	-	28.70	4.58	-				
AV	2.48G	103.12	Inf	-Inf	69.84	3	Horizontal	257	2.42	-	28.70	4.58	-				
PK	2.4835G	60.69	74.00	-13.31	27.41	3	Horizontal	257	2.42	-	28.70	4.58	-				
AV	2.4835G	52.58	54.00	-1.42	19.30	3	Horizontal	257	2.42	-	28.70	4.58	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

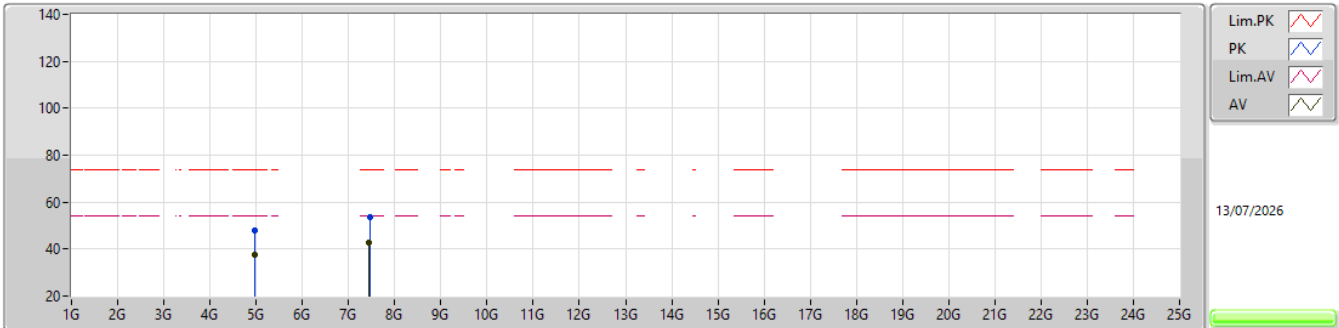


EUT_Y_1TX
Setting 12
02-D-L-4

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	4.9645G	47.03	74.00	-26.97	37.12	3	Vertical	224	1.63	-	33.33	7.59	31.01				
AV	4.95922G	37.28	54.00	-16.72	27.38	3	Vertical	224	1.63	-	33.32	7.59	31.01				
PK	7.449G	53.06	74.00	-20.94	38.83	3	Vertical	25	1.74	-	36.40	9.40	31.57				
AV	7.4319G	42.54	54.00	-11.46	28.26	3	Vertical	25	1.74	-	36.47	9.39	31.58				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



EUT_Y_1TX
Setting 12
02-D-L-4

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	4.9582G	47.78	74.00	-26.22	37.88	3	Horizontal	94	2.07	-	33.32	7.59	31.01			
AV	4.95784G	37.50	54.00	-16.50	27.60	3	Horizontal	94	2.07	-	33.32	7.59	31.01			
PK	7.45398G	53.68	74.00	-20.32	39.44	3	Horizontal	50	2.93	-	36.41	9.40	31.57			
AV	7.44246G	42.70	54.00	-11.30	28.45	3	Horizontal	50	2.93	-	36.43	9.39	31.57			