



RADIO TEST REPORT

FCC ID : UDX-CW9177I
Equipment : Cisco Wireless 9177I Series Wi-Fi 7 Access Point
Brand Name : CISCO
Model Name : CW9177I
Applicant : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Standard : 47 CFR FCC Part 15.247

The product was received on Jan. 05, 2026, and testing was started from Jan. 16, 2026 and completed on Jul. 09, 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

Page Number : 3 of 35
Issued Date : Aug. 06, 2026
Report Version : 01



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: Sophia Shiung



1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500Kb/s)	1.0	1TX
2.4-2.4835GHz	BT-LE(125Kb/s)	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.	Brand	Model Name	Antenna Type	Connector	Cross-polar	Radio (R)
1	WNC	95XPAN15.G01	PIFA	I-Pex	V	R1/3
2	WNC	95XPAN15.G02	Dipole	I-Pex	H	R1/3
3	WNC	95XPAN15.G03	PIFA	I-Pex	V	R1/3
4	WNC	95XPAN15.G04	Dipole	I-Pex	H	R1/3
5	WNC	95XPAN15.G05	PIFA	I-Pex	V	R2
6	WNC	95XPAN15.G06	Dipole	I-Pex	H	R2
7	WNC	95XPAN15.G07	PIFA	I-Pex	V	R2
8	WNC	95XPAN15.G08	Dipole	I-Pex	H	R2
9	WNC	95XPAN15.G09	PIFA	I-Pex	V	R0
10	WNC	95XPAN15.G10	PIFA	I-Pex	V	R0
11	WNC	95XPAN15.G11	PIFA	I-Pex	V	R4
12	WNC	95XPAN15.G12	PIFA	I-Pex	V	R5
13	WNC	81VEAR15.G01	Patch	SMA	V	R5

Ant.	Port / Radio (R)		Composite Gain (dBi)					Ant. Gain above 30 degrees (dBi)
	WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz				WLAN 5GHz
	R1	R3		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 1
1	1	1	3.26	6.39	5.94	4.72	4.1	-2.9
2	2	2	4.94	3.79	4.08	3.73	5.4	-6.7
3	3	3	2.51	5.67	5.38	4.71	4.38	-2.9
4	4	4	4.47	3.92	4.23	4.25	3.79	-6.3

Ant.	Port / Radio (R)		Composite Gain (dBi)					Ant. Gain above 30 degrees (dBi)		
	WLAN 5/6GHz		WLAN 5GHz		WLAN 6GHz			WLAN 6GHz		
	R2		UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 5	UNII 6	UNII 7
5	1		3.57	4.71	5.5	5.4	6.47	-3.8	-3.3	-3.7
6	2		6.43	5.77	5.44	5.31	5.31	-9	-6	-5.4
7	3		4.1	3.46	4.13	4.65	4.7	-4	-3.5	-3
8	4		5.31	5.06	5.81	6.52	6.51	-9.3	-6.4	-6.1

Ant.	Port / Radio (R)	Composite Gain (dBi)							
	WLAN 2.4/5/6GHz	WLAN	WLAN 5GHz				WLAN 6GHz		
	R0	2.4GHz	UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7
9	1	4.89	4.4	4.72	5.23	5.34	5	3.66	4.13
10	2	4.61	4.09	4.77	6.19	4.88	6.57	5.01	5.5

Ant.	Port / Radio (R)		Ant. Gain above 30 degrees (dBi)			
	WLAN 2.4/5/6GHz		WLAN 5GHz		WLAN 6GHz	
	R0		UNII 1	UNII 5	UNII 6	UNII 7
9	1		-3.4	-2.1	-2	-2.3
10	2		-4	-4.1	-4	-4.3



Ant.	Port / Radio (R)		Gain (dBi)	
	BT / IEEE 802.15.4	GPS	BT / IEEE 802.15.4	GPS
	R4	R5		
11	1	-	3.3	-
12	-	1	-	3.8
13	-	1	-	2.98

Note 1: The above information was declared by manufacturer.

Note 2: States antenna 6GHz transmission will be restricted per country's regulation.

Note 3: 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 :

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

For 2TX:

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

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

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

For 4TX:

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

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

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where;

Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
0	2.4GHz	2TX	4.89	4.61	-	-	7.76	-
	5GHz UNII-1	2TX	4.4	4.09	-	-	7.41	
	5GHz UNII-2A	2TX	4.72	4.77	-	-	7.78	
	5GHz UNII-2C	2TX	5.23	6.19	-	-	9.20	
	5GHz UNII-3	2TX	5.34	4.88	-	-	8.35	
	6GHz UNII-5	2TX	5	6.57	-	-	9.58	
	6GHz UNII-6	2TX	3.66	5.01	-	-	8.02	
	6GHz UNII-7	2TX	4.13	5.5	-	-	8.51	



Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
1	2.4GHz	2TX	3.26	4.94	-	-	4.94	Cross-Polarized Antenna
		4TX	3.26	4.94	2.51	4.47	6.91	
2	5GHz UNII-2C	2TX	3.57	6.43	-	-	6.43	
		4TX	3.57	6.43	4.1	5.31	7.99	
	5GHz UNII-3	2TX	4.71	5.77	-	-	5.77	
		4TX	4.71	5.77	3.46	5.06	7.82	
	6GHz UNII-5	2TX	5.5	5.44	-	-	5.5	
		4TX	5.5	5.44	4.13	5.81	8.26	
	6GHz UNII-6	2TX	5.4	5.31	-	-	5.4	
		4TX	5.4	5.31	4.65	6.52	8.52	
	6GHz UNII-7	2TX	6.47	5.31	-	-	6.47	
		4TX	6.47	5.31	4.7	6.51	8.82	
3	5GHz UNII-1	2TX	6.39	3.79	-	-	6.39	
		4TX	6.39	3.79	5.67	3.92	8.09	
	5GHz UNII-2A	2TX	5.94	4.08	-	-	5.94	
		4TX	5.94	4.08	5.38	4.23	7.99	
	5GHz UNII-2C	2TX	4.72	3.73	-	-	4.72	
		4TX	4.72	3.73	4.71	4.25	7.38	
	5GHz UNII-3	2TX	4.1	5.4	-	-	5.4	
		4TX	4.1	5.4	4.38	3.79	7.46	

For Antenna Gain above 30 degrees:

Radio	Mode		Max Gain (dBi)				DG (dBi)	Remark
			G1	G2	G3	G4		
2	6G UNII-5	2TX	-3.8	-9	-	-	-3.8	Cross-Polarized Antenna
		4TX	-3.8	-9	-4	-9.3	-2.76	
	6G UNII-6	2TX	-3.3	-6	-	-	-3.3	
		4TX	-3.3	-6	-3.5	-6.4	-1.57	
	6G UNII-7	2TX	-3.7	-5.4	-	-	-3.7	
		4TX	-3.7	-5.4	-3	-6.1	-1.37	
3	5G UNII-1	2TX	-2.9	-6.7	-	-	-2.9	
		4TX	-2.9	-6.7	-2.9	-6.3	-1.33	

Note 4: <Scan Radio 0>

For 2.4GHz function:

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

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

Port 1~2 could transmit/receive simultaneously.

For 5GHz function:

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

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

Port 1~2 could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax (2TX/2RX):

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

Port 1~2 could transmit/receive simultaneously.

**<Radio 1>****For 2.4GHz function:****For IEEE 802.11 b/g/n/VHT/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 2>**For 5GHz function:****For IEEE 802.11 a/n/ac/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

For 6GHz function:**For IEEE 802.11 ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

**<Radio 3>****For 5GHz function:****For IEEE 802.11 a/n/ac/ax/be (1TX, 2TX, 4TX/4RX):****1TX:**

Only Port 1 can be used as transmitting antenna.

2TX:

Both Port 1 and 2 can be used as transmitting antenna.

Port 1~2 could transmit simultaneously.

4TX:

Port 1~4 can be used as transmitting antenna.

Port 1~4 could transmit simultaneously.

4RX:

Port 1~4 can be used as receiving antenna.

Port 1~4 could receive simultaneously.

<Radio 4>**For Bluetooth function (1TX/1RX):**

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

For IEEE 802.15.4 function (1TX/1RX):

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

<Radio 5>**For GPS function (1RX):**

Ant. 12~13 can be used as receiving antenna, but only one of them will be used at one time.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
BT-LE(1Mbps)	0.622	2.06	390.625u	3k
BT-LE(2Mbps)	0.327	4.85	204.688u	5k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From PoE, adapter or DC power supply (24~56Vdc)			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	DOS [ver 6.1.7601]			
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		
Serial Number	For Others: WTT2947053X For AC Conduction and Radiated below 1GHz tests: WTT29470543			

Note: The above information was declared by manufacturer.

1.1.5 Table for SW Information

SW	BW of 5GHz Mode (MHz)	6GHz Mode	Support Function
Catalyst	20/40/80/160	Standard Power Access Point.	AP
			CURWB P2MP Master
		-	CURWB P2MP client with radar detection
Meraki	20/40/80	Standard Power Access Point.	AP

Note 1: The SW Catalyst_AP mode was tested and recorded in this test report.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for Radio Function

Radio (R)	Support Function	WLAN 2.4GHz	WLAN 5GHz		WLAN 6GHz	BT / IEEE 802.15.4	GPS
			UNII 1~2A	UNII 2C~3			
R0 (Scan Radio)	AP	✓	✓	✓	✓	-	-
	CURWB P2MP Master	-	✓	✓	✓	-	-
	CURWB P2MP client with radar detection	-	✓	✓	-	-	-
R1	AP	✓	-	-	-	-	-
R2	AP & CURWB P2MP Master	-	-	✓	✓	-	-
	CURWB P2MP client with radar detection	-	-	✓	-	-	-
R3 (Note 1)	AP, CURWB P2MP Master & CURWB P2MP client with radar detection	-	✓	✓	-	-	-
R4	AP	-	-	-	-	✓	-
R5	AP	-	-	-	-	-	✓

Note 1: Radio 3 supports operation in 5GHz full band (UNII 1~3) or low band (UNII 1~2A).

Note 2: For WLAN 2.4GHz, R0 and R1 can't operate at the same frequency simultaneously.

For WLAN 5GHz, R0, R2 and R3 can't operate at the same frequency simultaneously.

For WLAN 6GHz, R0 and R2 can't operate at the same frequency simultaneously.

Note 3: 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	TH03-CB	Stim Sung	19.4~20.5 / 62~65	Feb. 04, 2026~ Jun. 12, 2026
Radiated < 1GHz	10CH01-CB	Stim Sung	23~24 / 56~57	Jun. 17, 2026~ Jul. 09, 2026
Radiated > 1GHz	03CH03-CB	George Fan	24.3~24.4 / 56~57	Jan. 16, 2026~ May 25, 2026
	03CH04-CB	Stim Sung	24.1~24.6 / 59~65	
AC Conduction	CO01-CB	Allen Chung	21~22 / 57~58	Jun. 15, 2026~ Jul. 06, 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 Date: Before May 28, 2026

Test Items	Uncertainty	Remark
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%

Test Date: May 28, 2026~Jun. 30, 2026

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)	5.5 dB	Confidence levels of 95%
Conducted Emission	3.8 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	3.5 dB	Confidence levels of 95%
Bandwidth Measurement	1.6 %	Confidence levels of 95%

Test Date: After Jun. 30, 2026

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
BT-LE(1Mbps)
2402MHz
2440MHz
2478MHz
2480MHz
BT-LE(2Mbps)
2402MHz
2440MHz
2478MHz
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	CTX
1	EUT + PoE_R0: 2.4GHz
2	EUT + Adapter_R0: 2.4GHz
3	EUT + DC power supply_R0: 2.4GHz
Mode 3 has been evaluated to be the worst case among Mode 1~3, so the measurement for Mode 4~11 will follow this same test mode.	
4	EUT + DC power supply_R0: 5GHz
5	EUT + DC power supply_R0: 6GHz
6	EUT + DC power supply_R1: 2.4GHz
7	EUT + DC power supply_R2: 5GHz
8	EUT + DC power supply_R2: 6GHz
9	EUT + DC power supply_R3: 5GHz
10	EUT + DC power supply_R4: BT
11	EUT + DC power supply_R4: IEEE 802.15.4
For operating, mode 10 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
	"EUT in Y axis" generated the worst case at Radiated measurement above 1GHz. Consequently, the measurement will follow this same test mode.
	1 EUT in Y axis + PoE_R0: 2.4GHz
	2 EUT in Y axis + Adapter_R0: 2.4GHz
	3 EUT in Y axis + DC power supply_R0: 2.4GHz
Mode 1 has been evaluated to be the worst case among Mode 1~3, so the measurement for Mode 4~11 will follow this same test mode.	
	4 EUT in Y axis + PoE_R0: 5GHz
	5 EUT in Y axis + PoE_R0: 6GHz
	6 EUT in Y axis + PoE_R1: 2.4GHz
	7 EUT in Y axis + PoE_R2: 5GHz
	8 EUT in Y axis + PoE_R2: 6GHz
	9 EUT in Y axis + PoE_R3: 5GHz
	10 EUT in Y axis + PoE_R4: BT
	11 EUT in Y axis + PoE_R4: IEEE 802.15.4
For operating, mode 10 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, EUT in Y axis was the worst case, so the measurement will follow this same test configuration.
	1 EUT in Y axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	R0: 2.4GHz + R1: 2.4GHz + R2: 6GHz + R3: 5GHz UNII 1~3 + R4: BT
2	R0: 2.4GHz + R1: 2.4GHz + R2: 6GHz + R3: 5GHz UNII 1~3 + R4: IEEE 802.15.4
3	R0: 5GHz + R1: 2.4GHz + R2: 6GHz + R3: 5GHz UNII 1~3 + R4: BT
4	R0: 5GHz + R1: 2.4GHz + R2: 6GHz + R3: 5GHz UNII 1~3 + R4: IEEE 802.15.4
5	R0: 6GHz + R1: 2.4GHz + R2: 6GHz + R3: 5GHz UNII 1~3 + R4: BT
6	R0: 6GHz + R1: 2.4GHz + R2: 6GHz + R3: 5GHz UNII 1~3 + R4: IEEE 802.15.4
7	R0: 2.4GHz + R1: 2.4GHz + R2: 5GHz + R3: 5GHz UNII 1~2A + R4: BT
8	R0: 2.4GHz + R1: 2.4GHz + R2: 5GHz + R3: 5GHz UNII 1~2A + R4: IEEE 802.15.4
9	R0: 5GHz + R1: 2.4GHz + R2: 5GHz + R3: 5GHz UNII 1~2A + R4: BT
10	R0: 5GHz + R1: 2.4GHz + R2: 5GHz + R3: 5GHz UNII 1~2A + R4: IEEE 802.15.4
11	R0: 6GHz + R1: 2.4GHz + R2: 5GHz + R3: 5GHz UNII 1~2A + R4: BT
12	R0: 6GHz + R1: 2.4GHz + R2: 5GHz + R3: 5GHz UNII 1~2A + R4: IEEE 802.15.4
Refer to Sporton Test Report No.: FA5D2458AA for Co-location RF Exposure Evaluation.	

Note: The PoEs and adapter were for measurement only and would not be marketed. Their information is listed below:

Equipment	Brand Name	Model Name
PoE 1	DELTA	ADH-65AR P
PoE 2	CISCO	POEO75U-1BT-C-R
Adapter	MW	GS60A48-CIS5UGS60A48-CIS5

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories
M25 cap*4
DC jack cap*1
SMA Sealed cap*1
M25 RJ-45 Cable gland*2
Bracket (Optional)*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Power Supply	MOTECH	LPS-305	N/A
B	Notebook	DELL	E6430	N/A

For Radiated < 1GHz:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 2	CISCO	POE75U-1BT-C-R	N/A
B	Notebook	DELL	E6430	N/A

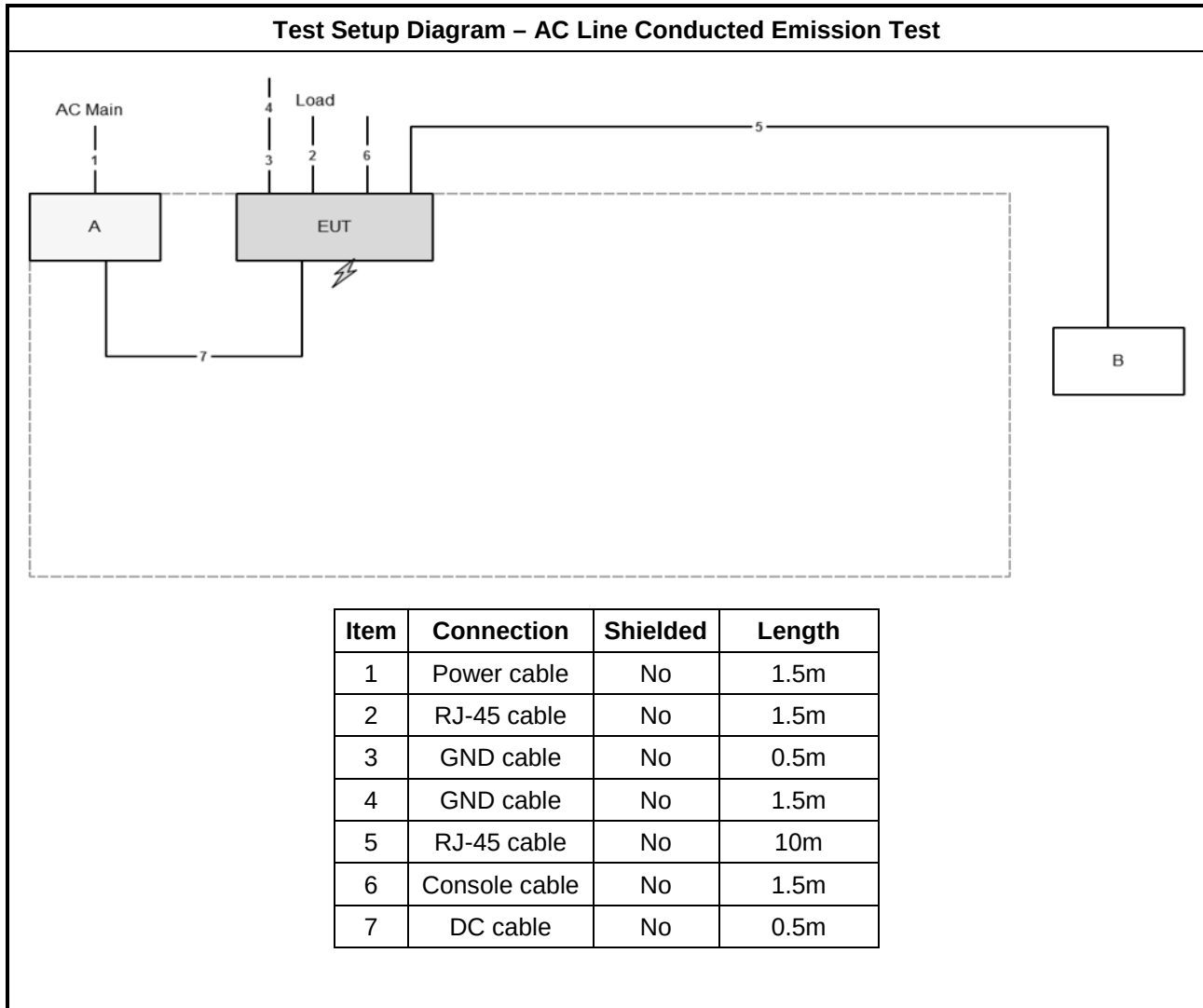
For Radiated > 1GHz:

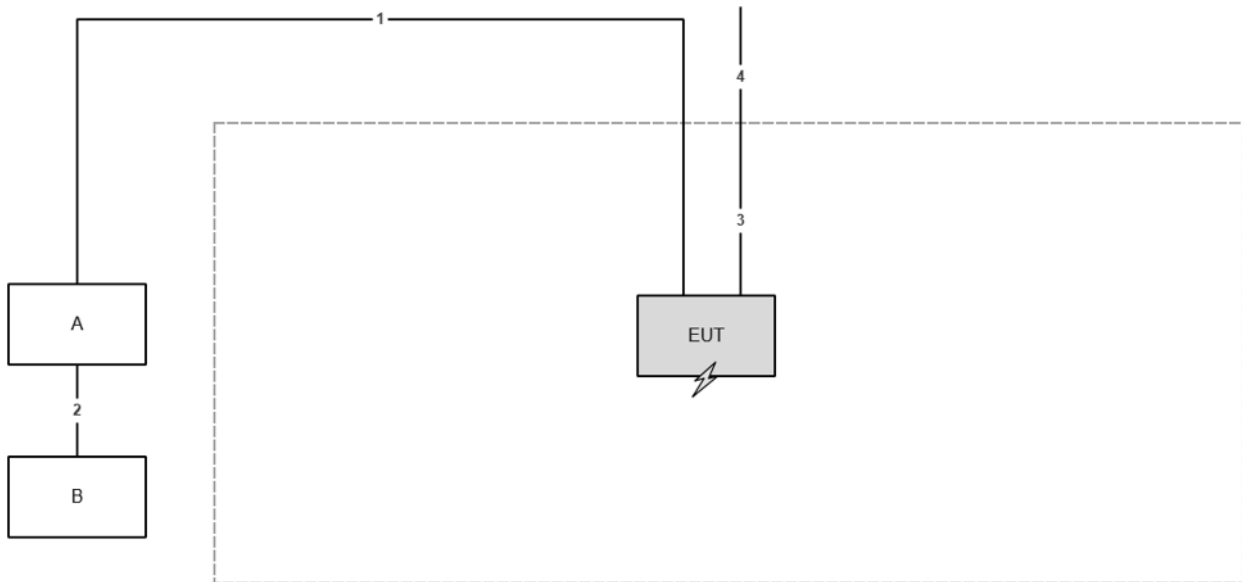
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 1	DELTA	ADH-65AR P	N/A
B	Notebook	Lenovo	L440	N/A

For RF Conducted:

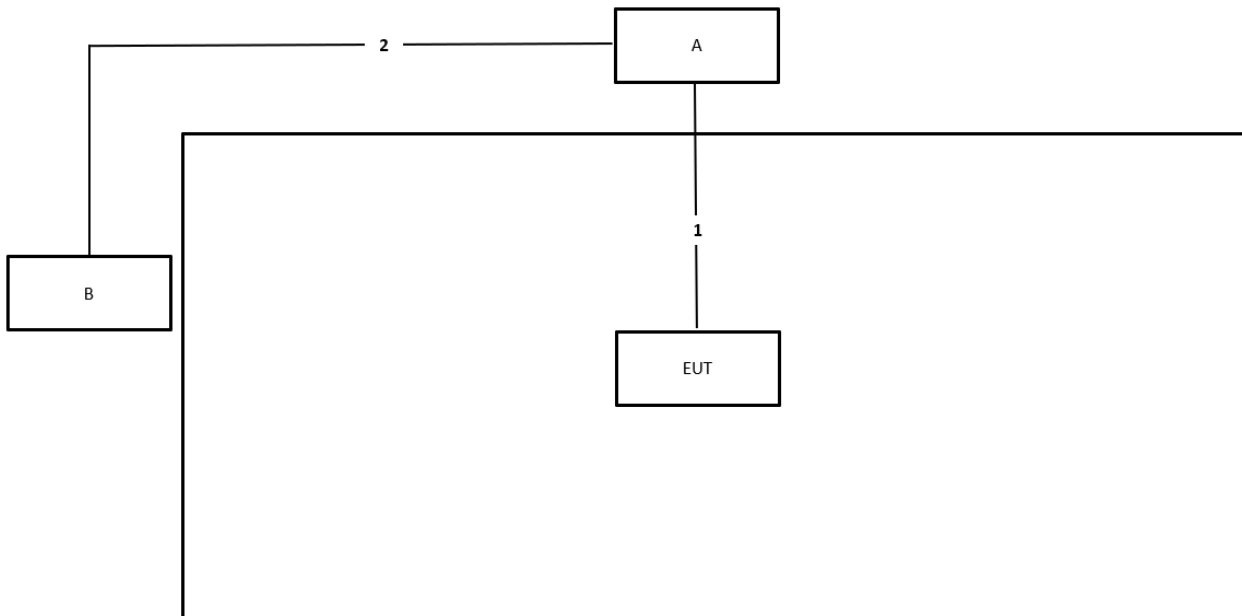
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	Lenovo	L440	N/A
B	PoE 1	DELTA	ADH-65AR P	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	GND cable	No	0.5m
4	GND cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m



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.

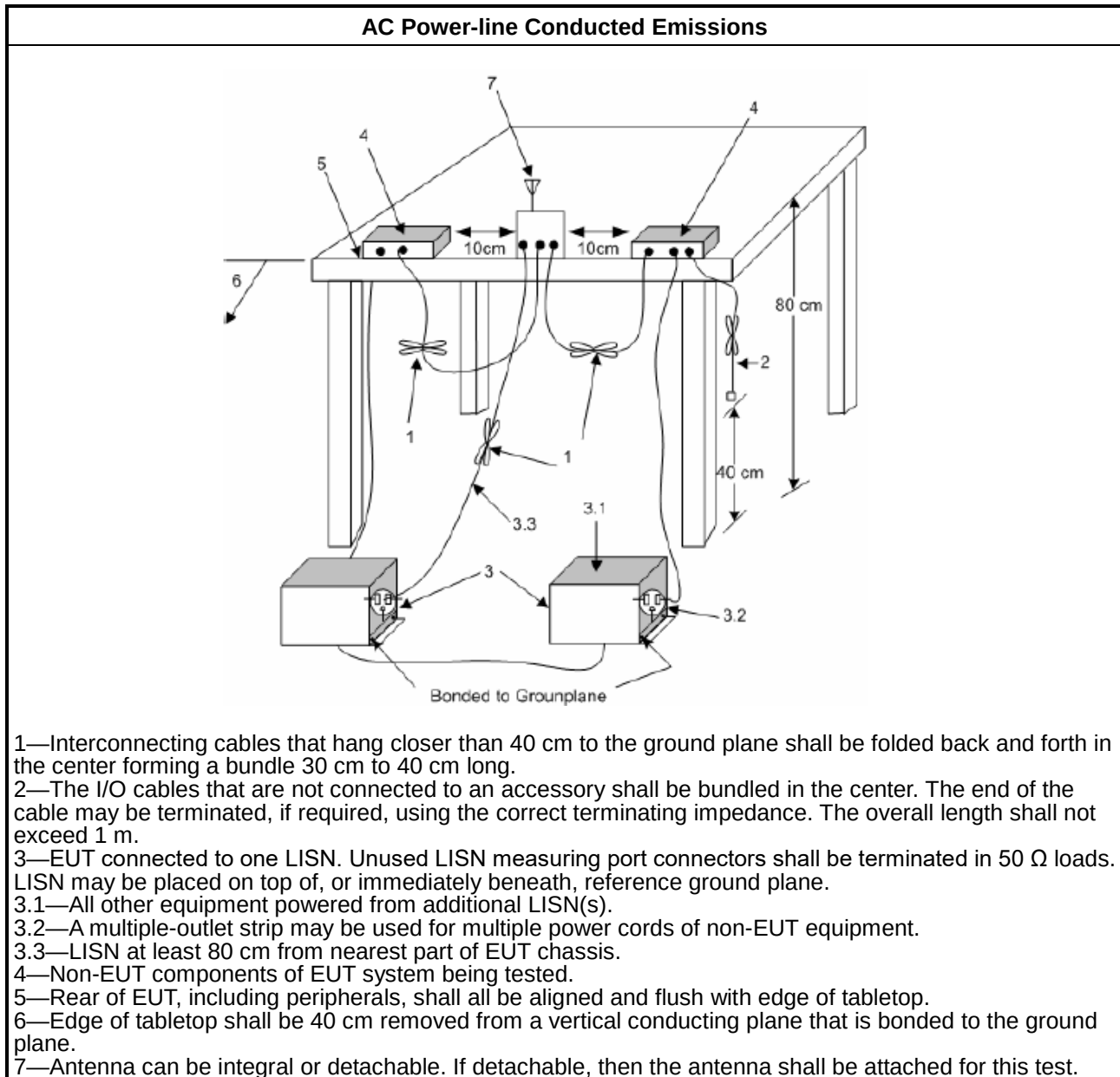
3.1.2 Measuring Instruments

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:

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

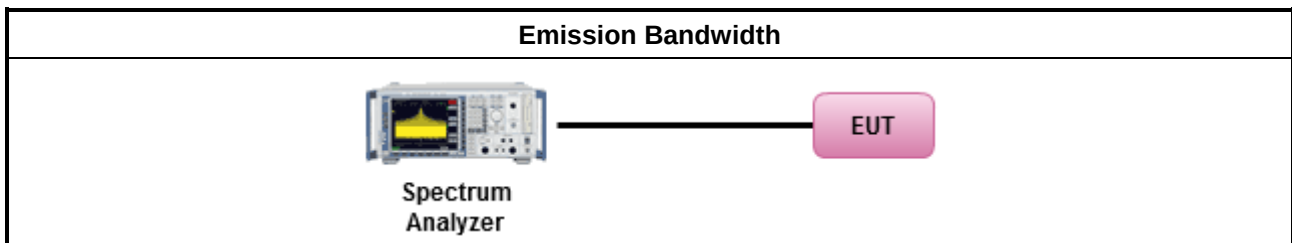
3.2.2 Measuring Instruments

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 $\geq$ 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 $\geq 98\%$ 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:

$$P_{\text{total}} = P_1 + P_2 + \dots + P_n$$
 (calculated in linear unit [mW] and transfer to log unit [dBm])

$$\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)



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

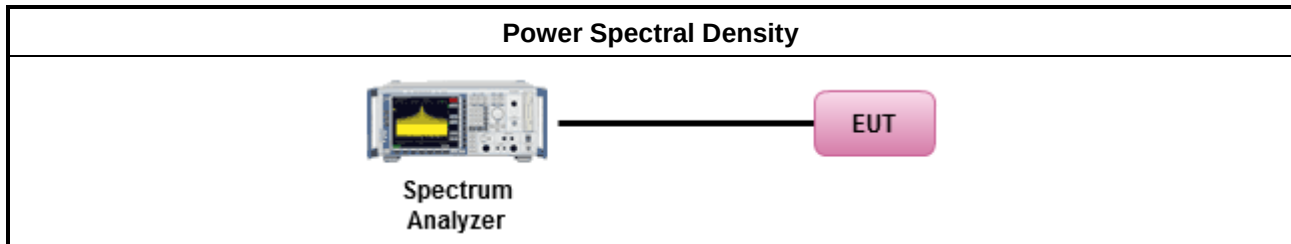
3.4.2 Measuring Instruments

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.	

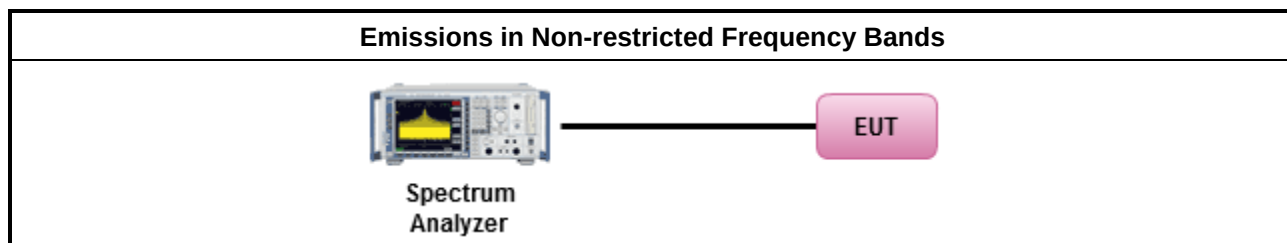
3.5.2 Measuring Instruments

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

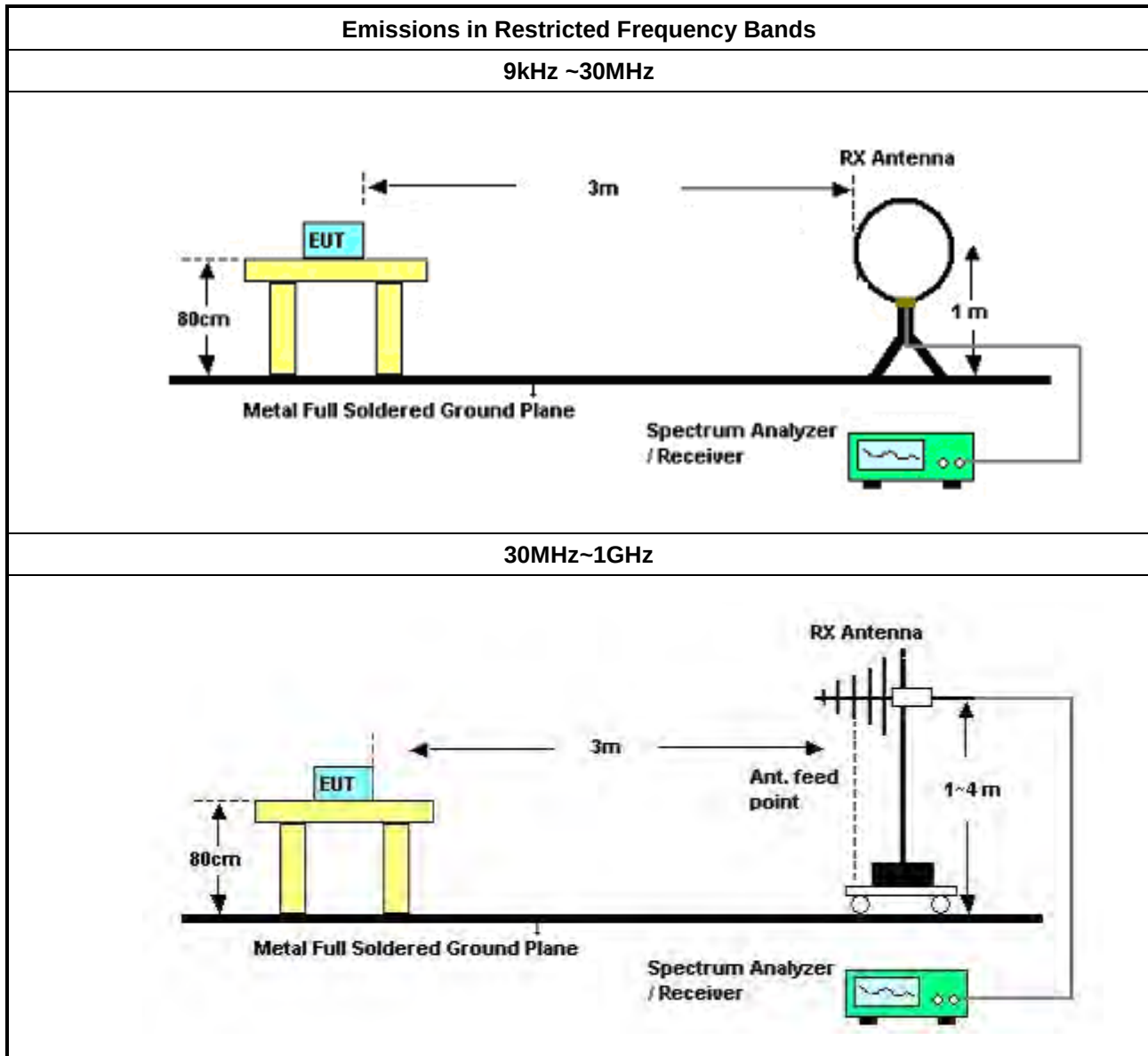
Refer a test equipment and calibration data table in this test report.

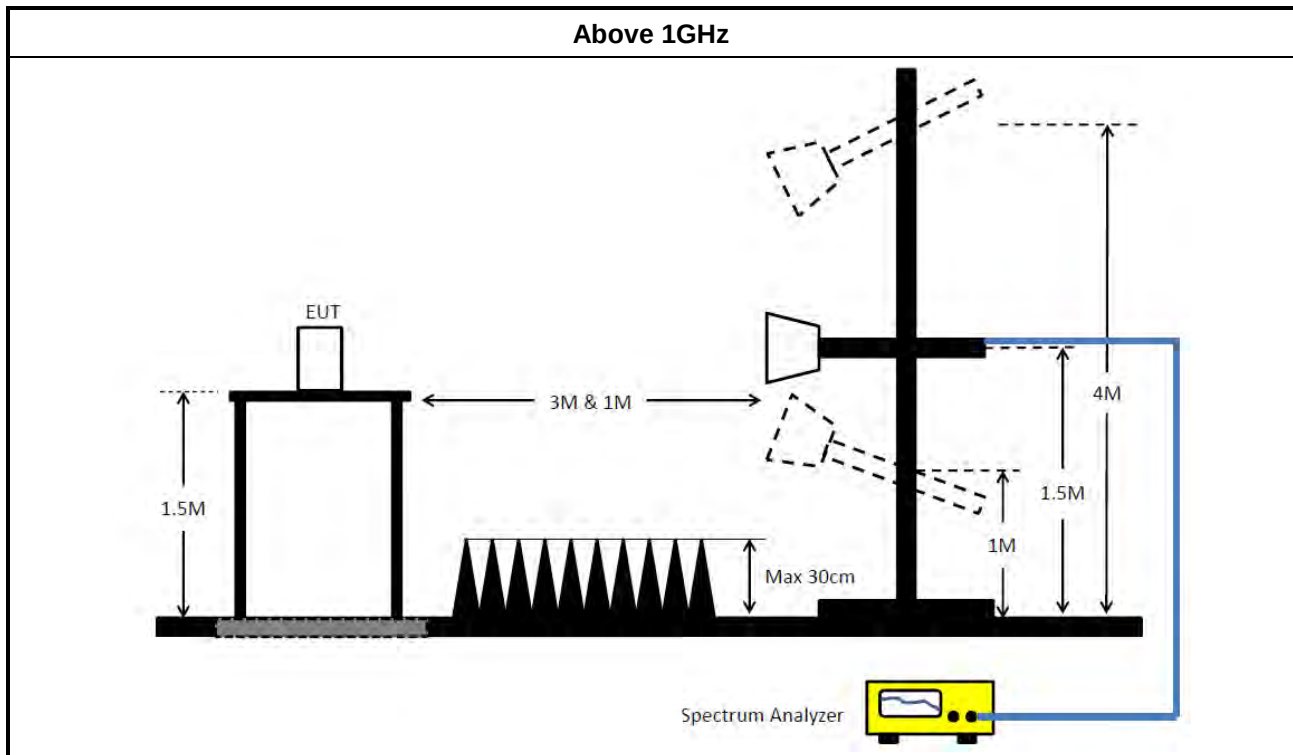


3.6.3 Test Procedures

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)
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 14, 2026	Jan. 13, 2027	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 07, 2026	Mar. 06, 2027	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 07, 2026	Mar. 06, 2027	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 14, 2025	Oct. 13, 2026	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 14, 2025	Oct. 13, 2026	Radiation (10CH01-CB)
EMI Test Receiver	Rohde&Schwarz	ESR7	103076	9 kHz ~ 7GHz	Aug. 27, 2025	Aug. 26, 2026	Radiation (10CH01-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Sep. 03, 2025	Sep. 02, 2026	Radiation (10CH01-CB)
High Cable	TITAN	T318E	High cable01	30MHz ~ 18GHz	Nov. 14, 2025	Nov. 13, 2026	Radiation (10CH01-CB)
Bilog Ant & 6dB Attenuator	SCHWARZBECK & EMCI	VULB 9168 & N-6-06	1469 & AT-N06021	30MHz ~ 1GHz	Jan. 08, 2026	Jan. 07, 2027	Radiation (10CH01-CB)
Amplifier	EM	EM101	060703	10MHz ~ 1GHz	Oct. 15, 2025	Oct. 14, 2026	Radiation (10CH01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 20, 2025	Oct. 19, 2026	Radiation (10CH01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (10CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 02, 2025	May 01, 2026	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 01, 2026	Apr. 30, 2027	Radiation (03CH03-CB)
Horn Antenna	ETS-Lindgren	3115	6821	750MHz~18GHz	Feb. 20, 2025	Feb. 19, 2026	Radiation (03CH03-CB)
Horn Antenna	ETS-Lindgren	3115	6821	750MHz~18GHz	Feb. 06, 2026	Feb. 05, 2027	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Oct. 07, 2025	Oct. 06, 2026	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 28, 2025	Jun. 27, 2026	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jul. 17, 2025	Jul. 16, 2026	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Nov. 13, 2025	Nov. 12, 2026	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.27	2.4GHz- 2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 21, 2025	Feb. 20, 2026	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 13, 2026	Feb. 12, 2027	Radiation (03CH04-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 31, 2025	Dec. 30, 2026	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Oct. 07, 2025	Oct. 06, 2026	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH5265	20211115-1	1~ 26.5GHz	Jan. 13, 2026	Jan. 12, 2027	Radiation (03CH04-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Jun. 10, 2025	Jun. 09, 2026	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Apr. 25, 2025	Apr. 24, 2026	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Apr. 24, 2026	Apr. 23, 2027	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Apr. 25, 2025	Apr. 24, 2026	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Apr. 24, 2026	Apr. 23, 2027	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Nov. 13, 2025	Nov. 12, 2026	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.27	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 14, 2026	Jan. 13, 2027	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 12, 2025	Sep. 11, 2026	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 12, 2025	Sep. 11, 2026	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz ~18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz ~18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz ~18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1~18GHz	Sep. 20, 2025	Sep. 19, 2026	Conducted (TH03-CB)
Test Software	SPORTON	SENSE-15247_FS	V5.11.27	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

NCR means Non-Calibration required.



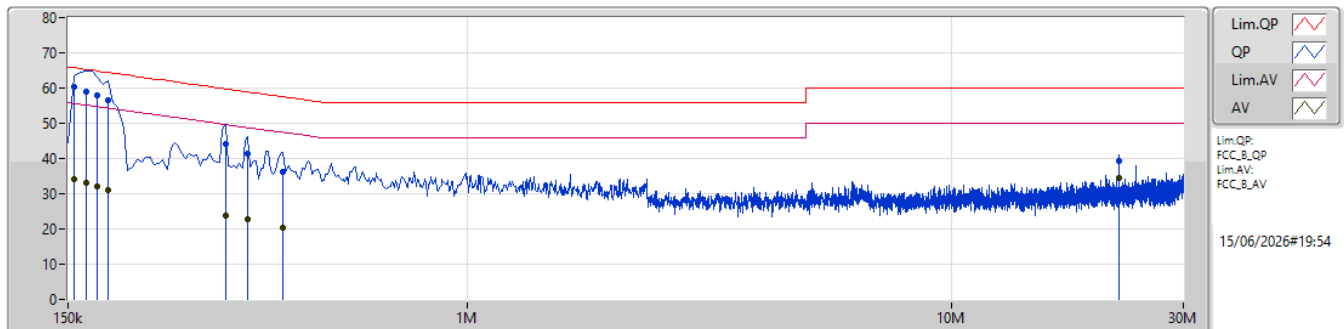
Conducted Emissions at Powerline

Appendix A

Summary

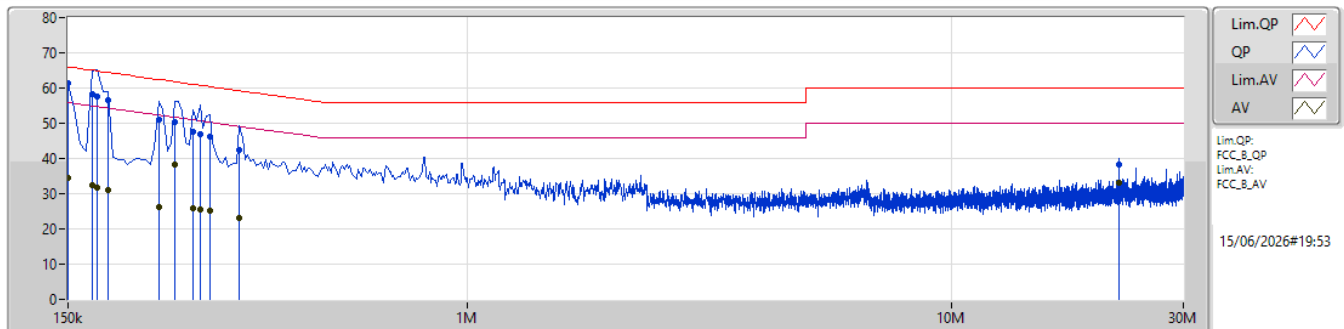
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 10	Pass	QP	150k	61.45	66.00	-4.55	Neutral

Mode 10



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	60.50	65.75	-5.25	10.03	Line	"Worst"	50.47	0.08	0.09	9.86						
AV	154.5k	34.03	55.75	-21.72	10.03	Line	-	24.00	0.08	0.09	9.86						
QP	163.5k	59.10	65.27	-6.17	10.01	Line	-	49.09	0.08	0.09	9.84						
AV	163.5k	33.01	55.27	-22.26	10.01	Line	-	23.00	0.08	0.09	9.84						
QP	172.5k	57.78	64.83	-7.05	9.98	Line	-	47.80	0.08	0.08	9.82						
AV	172.5k	32.04	54.83	-22.79	9.98	Line	-	22.06	0.08	0.08	9.82						
QP	181.5k	56.51	64.41	-7.90	9.95	Line	-	46.56	0.08	0.07	9.80						
AV	181.5k	31.08	54.41	-23.33	9.95	Line	-	21.13	0.08	0.07	9.80						
QP	316.5k	44.26	59.80	-15.54	10.03	Line	-	34.23	0.08	0.10	9.85						
AV	316.5k	23.92	49.80	-25.88	10.03	Line	-	13.89	0.08	0.10	9.85						
QP	352.5k	41.45	58.91	-17.46	10.06	Line	-	31.39	0.08	0.11	9.87						
AV	352.5k	22.60	48.91	-26.31	10.06	Line	-	12.54	0.08	0.11	9.87						
QP	415.5k	36.06	57.53	-21.47	10.10	Line	-	25.96	0.08	0.12	9.90						
AV	415.5k	20.51	47.53	-27.02	10.10	Line	-	10.41	0.08	0.12	9.90						
QP	22.119M	39.39	60.00	-20.61	11.02	Line	-	28.37	0.30	0.38	10.34						
AV	22.119M	34.38	50.00	-15.62	11.02	Line	-	23.36	0.30	0.38	10.34						

Mode 10



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	150k	61.45	66.00	-4.55	10.04	Neutral	"Worst"	51.41	0.06	0.10	9.88						
AV	150k	34.53	56.00	-21.47	10.04	Neutral	-	24.49	0.06	0.10	9.88						
QP	168k	58.44	65.06	-6.62	9.97	Neutral	-	48.47	0.06	0.08	9.83						
AV	168k	32.45	55.06	-22.61	9.97	Neutral	-	22.48	0.06	0.08	9.83						
QP	172.5k	57.59	64.83	-7.24	9.96	Neutral	-	47.63	0.06	0.08	9.82						
AV	172.5k	31.86	54.83	-22.97	9.96	Neutral	-	21.90	0.06	0.08	9.82						
QP	181.5k	56.60	64.41	-7.81	9.93	Neutral	-	46.67	0.06	0.07	9.80						
AV	181.5k	31.02	54.41	-23.39	9.93	Neutral	-	21.09	0.06	0.07	9.80						
QP	231k	51.14	62.41	-11.27	9.92	Neutral	-	41.22	0.06	0.07	9.79						
AV	231k	26.30	52.41	-26.11	9.92	Neutral	-	16.38	0.06	0.07	9.79						
QP	249k	50.33	61.79	-11.46	9.94	Neutral	-	40.39	0.06	0.08	9.80						
AV	249k	38.30	51.79	-13.49	9.94	Neutral	-	28.36	0.06	0.08	9.80						
QP	271.5k	47.75	61.07	-13.32	9.97	Neutral	-	37.78	0.06	0.09	9.82						
AV	271.5k	25.88	51.07	-25.19	9.97	Neutral	-	15.91	0.06	0.09	9.82						
QP	280.5k	47.03	60.80	-13.77	9.98	Neutral	-	37.05	0.06	0.09	9.83						
AV	280.5k	25.44	50.80	-25.36	9.98	Neutral	-	15.46	0.06	0.09	9.83						
QP	294k	46.06	60.42	-14.36	9.99	Neutral	-	36.07	0.06	0.09	9.84						
AV	294k	25.03	50.42	-25.39	9.99	Neutral	-	15.04	0.06	0.09	9.84						
QP	339k	42.39	59.23	-16.84	10.04	Neutral	-	32.35	0.06	0.11	9.87						
AV	339k	23.06	49.23	-26.17	10.04	Neutral	-	13.02	0.06	0.11	9.87						
QP	22.119M	38.26	60.00	-21.74	11.00	Neutral	-	27.26	0.28	0.38	10.34						
AV	22.119M	33.02	50.00	-16.98	11.00	Neutral	-	22.02	0.28	0.38	10.34						

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)	725k	1.08M	1M08F1D	711.25k	1.038M
BT-LE(2Mbps)	1.103M	2.088M	2M09F1D	1.098M	2.078M

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

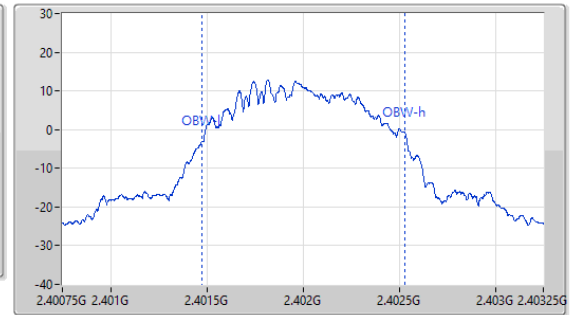
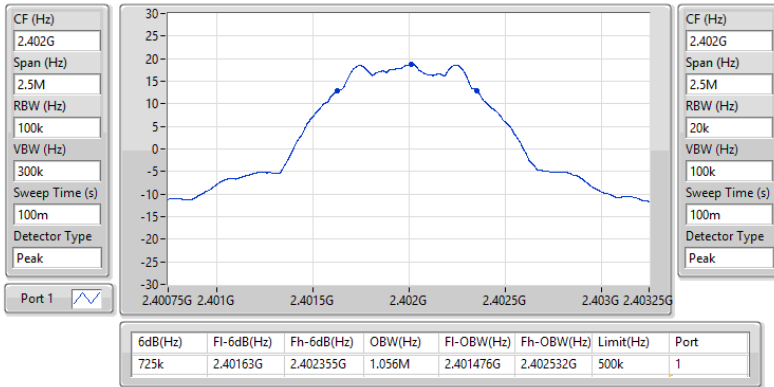
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	725k	1.056M
2440MHz	Pass	500k	725k	1.08M
2480MHz	Pass	500k	711.25k	1.038M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.103M	2.078M
2440MHz	Pass	500k	1.1M	2.088M
2480MHz	Pass	500k	1.098M	2.082M

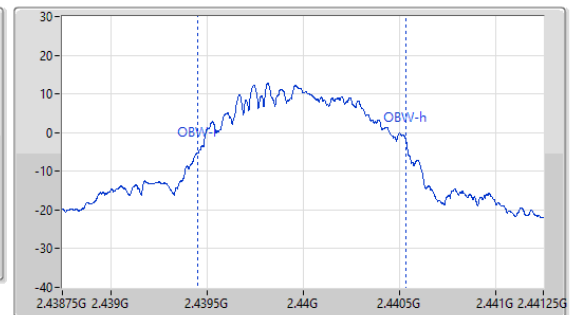
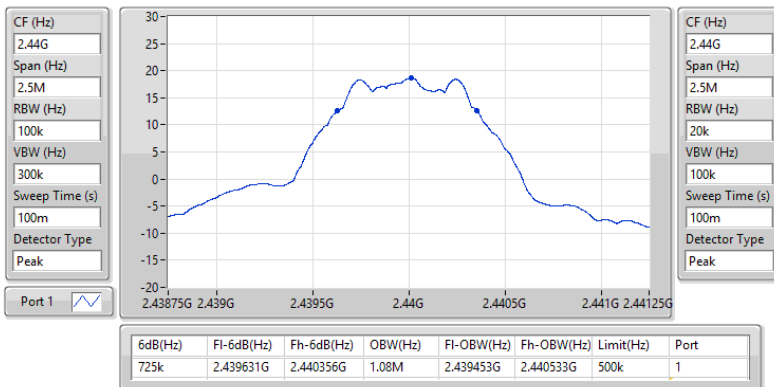
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

05/02/2026

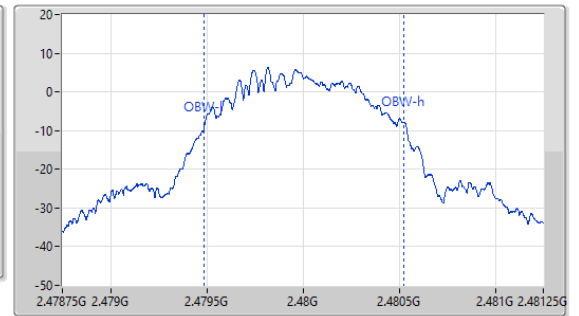
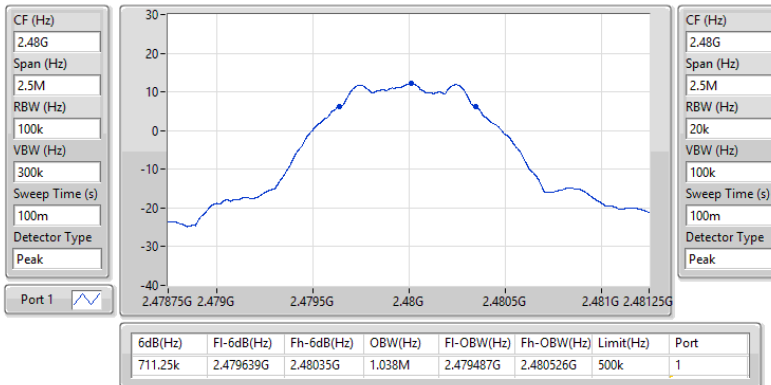

2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2440MHz

05/02/2026

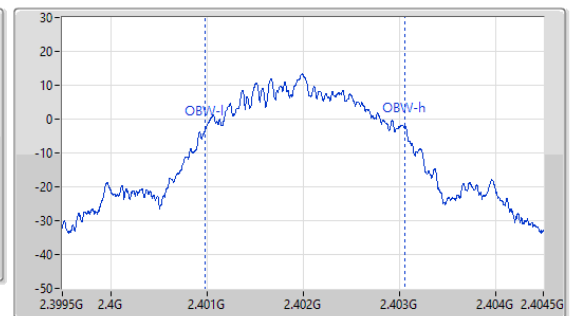
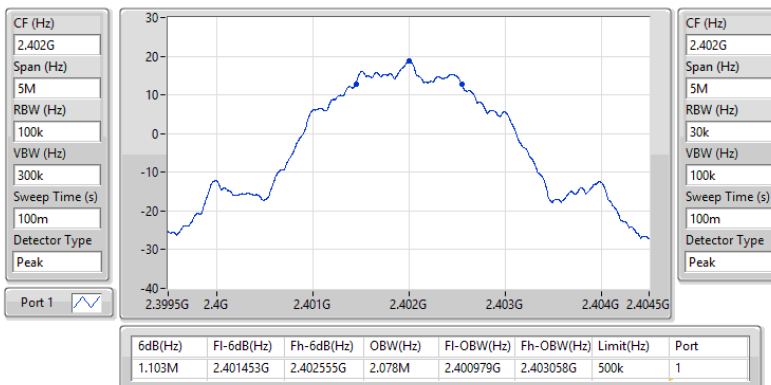


2.4-2.4835GHz_BT-LE(1Mbps)
EBW-DTS
2480MHz

05/02/2026

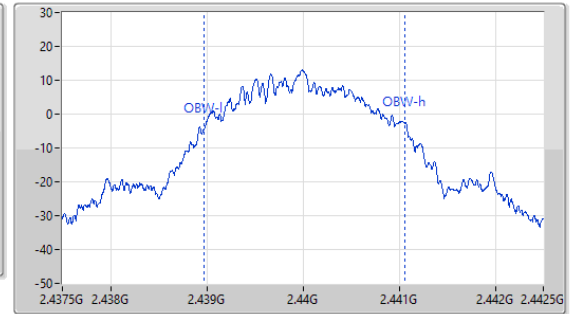
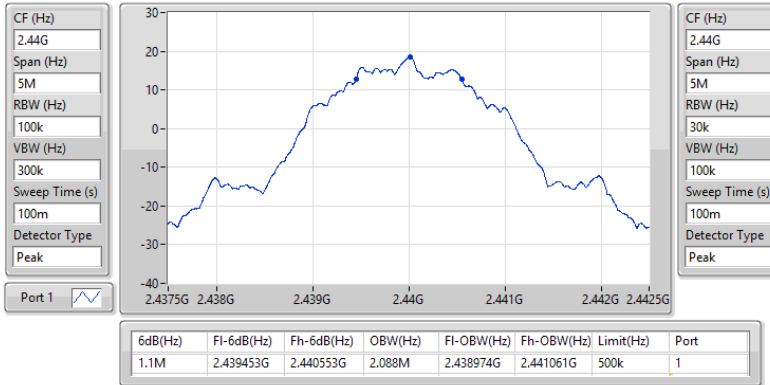

2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2402MHz

05/02/2026

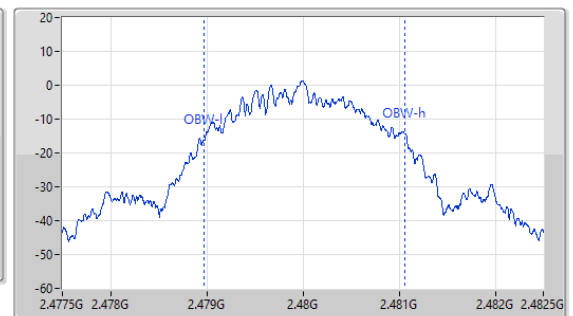
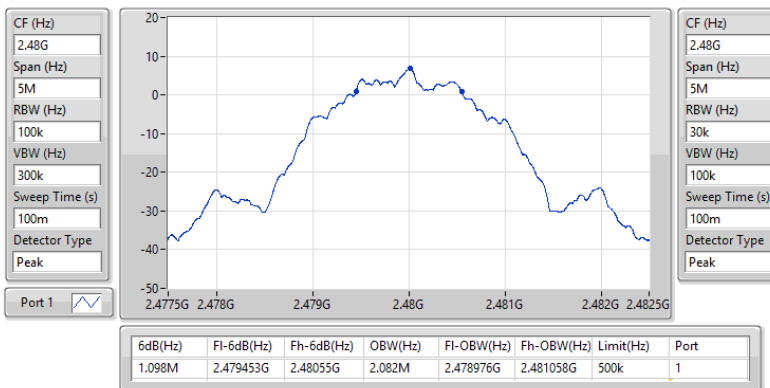


2.4-2.4835GHz_BT-LE(2Mbps)
EBW-DTS
2440MHz

05/02/2026


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

05/02/2026





Average Power-DTS

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	19.04	0.08017
BT-LE(2Mbps)	19.11	0.08147



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.30	19.04	30.00
2440MHz	Pass	3.30	18.94	30.00
2478MHz	Pass	3.30	18.86	30.00
2480MHz	Pass	3.30	12.27	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.30	18.80	30.00
2440MHz	Pass	3.30	19.11	30.00
2478MHz	Pass	3.30	18.64	30.00
2480MHz	Pass	3.30	6.87	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)	3.46
BT-LE(2Mbps)	2.34

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.30	3.46	8.00
2440MHz	Pass	3.30	3.35	8.00
2480MHz	Pass	3.30	-4.25	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.30	2.34	8.00
2440MHz	Pass	3.30	2.26	8.00
2480MHz	Pass	3.30	-9.58	8.00

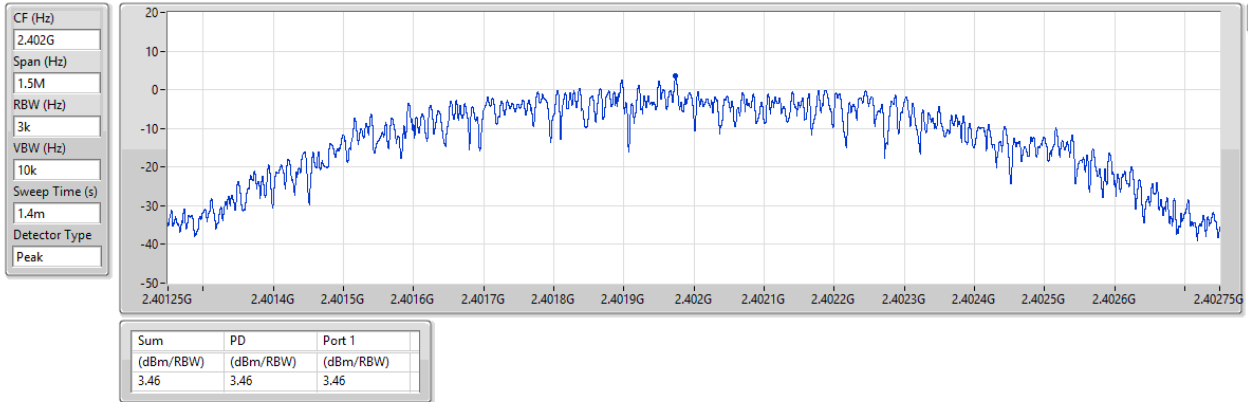
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2402MHz

04/02/2026

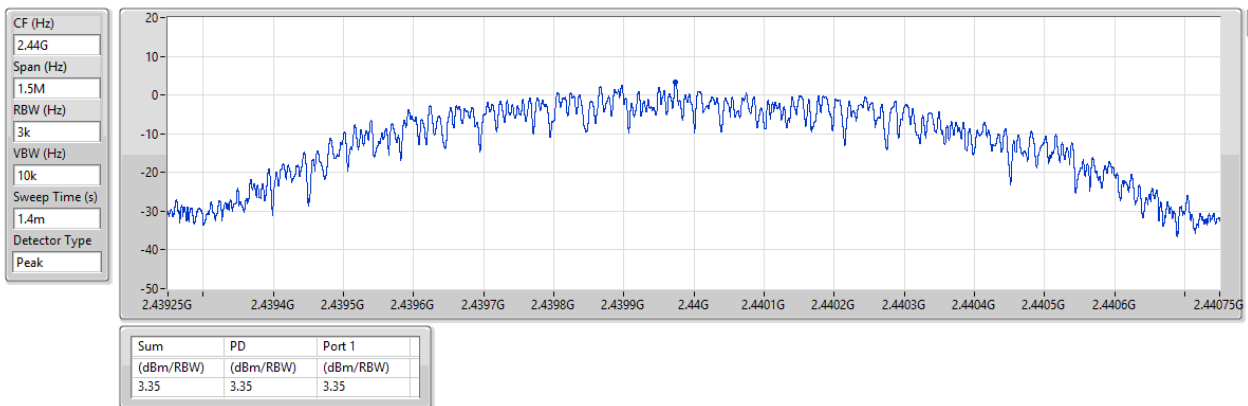


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2440MHz

04/02/2026

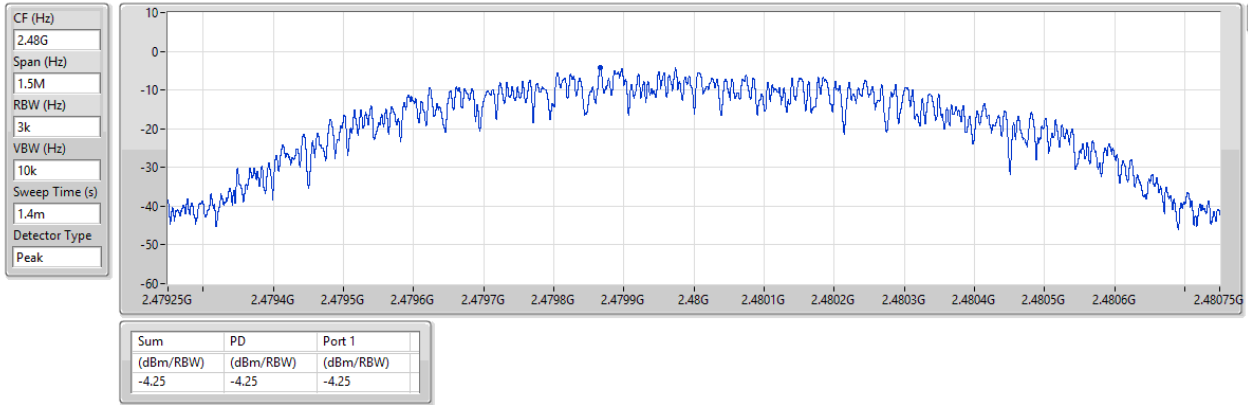


2.4-2.4835GHz_BT-LE(1Mbps)

PSD

2480MHz

04/02/2026

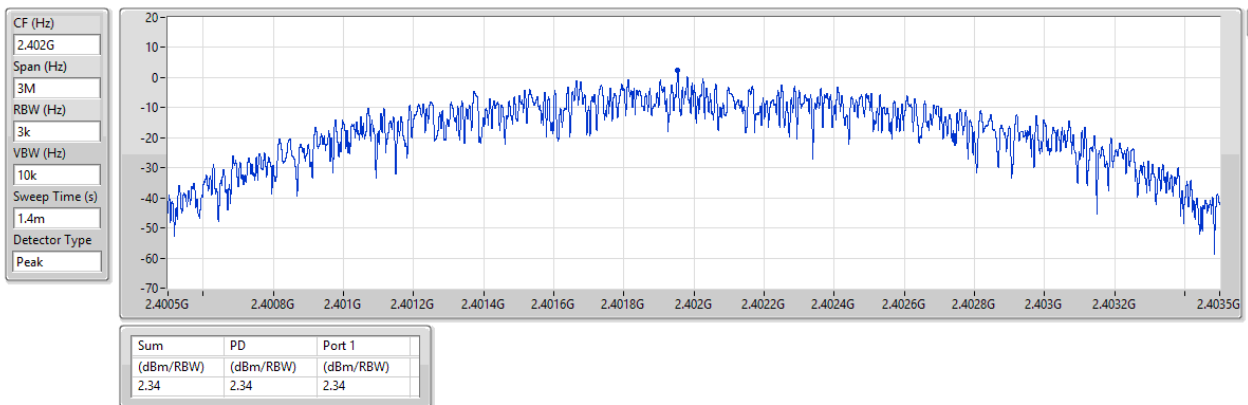


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2402MHz

04/02/2026

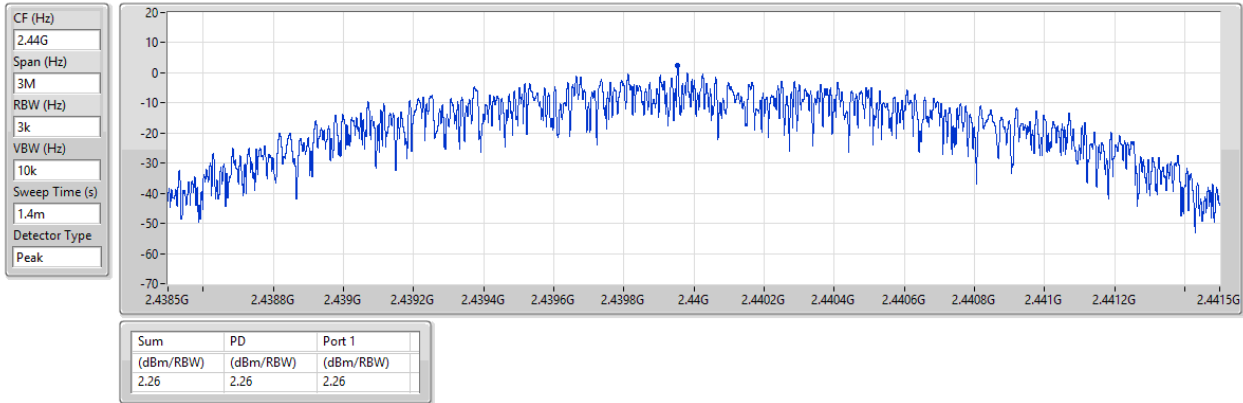


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2440MHz

04/02/2026

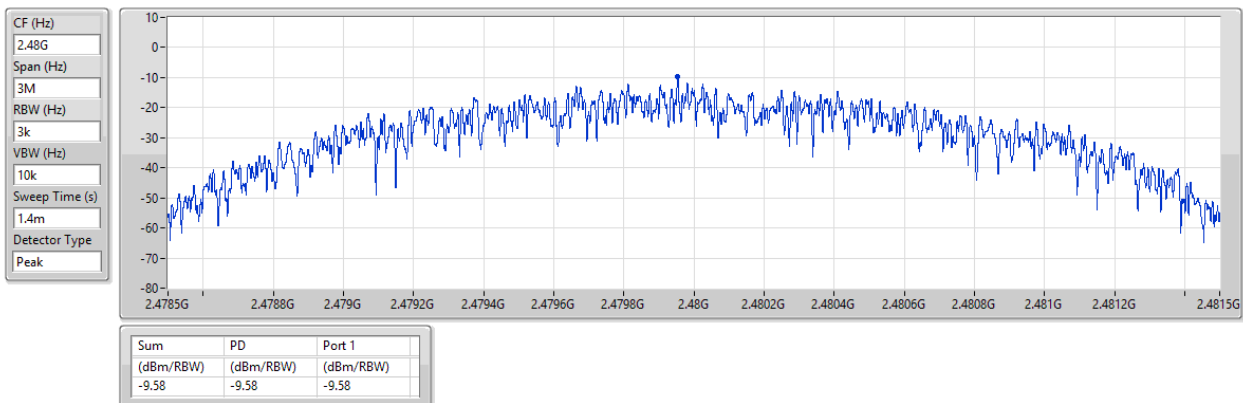


2.4-2.4835GHz_BT-LE(2Mbps)

PSD

2480MHz

04/02/2026



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	18.64	-11.36	37.05M	-53.50	2.39988G	-26.80	2.4G	-27.14	2.50058G	-51.87	7.20527G	-47.77	1
BT-LE(2Mbps)	Pass	2.43991G	18.07	-11.93	2.1826G	-53.19	2.4G	-13.01	2.4G	-14.75	2.50046G	-52.53	21.94329G	-47.71	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	18.64	-11.36	37.05M	-53.50	2.39988G	-26.80	2.4G	-27.14	2.50058G	-51.87	7.20527G	-47.77	1
2440MHz	Pass	2.402G	18.64	-11.36	40.58M	-52.94	2.39976G	-51.10	2.4G	-55.11	2.50126G	-41.51	21.9461G	-48.20	1
2480MHz	Pass	2.402G	18.64	-11.36	30M	-53.54	2.39668G	-51.46	2.4G	-57.18	2.50002G	-52.31	21.65365G	-47.42	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.43991G	18.07	-11.93	2.1826G	-53.19	2.4G	-13.01	2.4G	-14.75	2.50046G	-52.53	21.94329G	-47.71	1
2440MHz	Pass	2.43991G	18.07	-11.93	86.4M	-54.15	2.4G	-50.08	2.4G	-52.66	2.5011G	-52.29	21.9461G	-47.22	1
2480MHz	Pass	2.43991G	18.07	-11.93	1.98403G	-54.34	2.3952G	-51.88	2.4G	-56.34	2.50146G	-47.30	21.52429G	-48.11	1

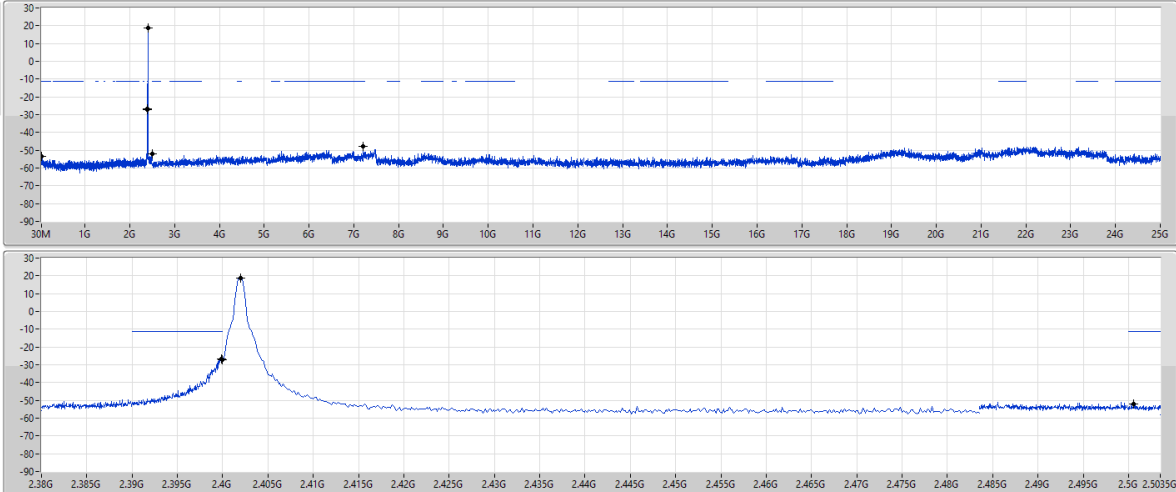
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2402MHz

04/02/2026

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	18.64	-11.36	37.05M	-53.50	2.39988G	-26.80	2.4G	-27.14	2.50058G	-51.87	7.20527G	-47.77	1

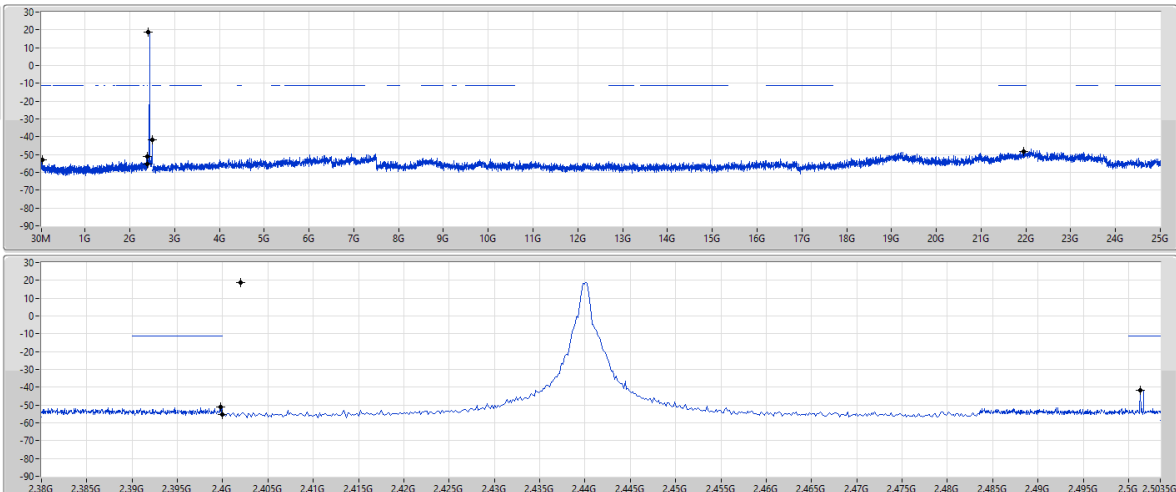
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2440MHz

04/02/2026

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	18.64	-11.36	40.58M	-52.94	2.39976G	-51.10	2.4G	-55.11	2.50126G	-41.51	21.9461G	-48.20	1

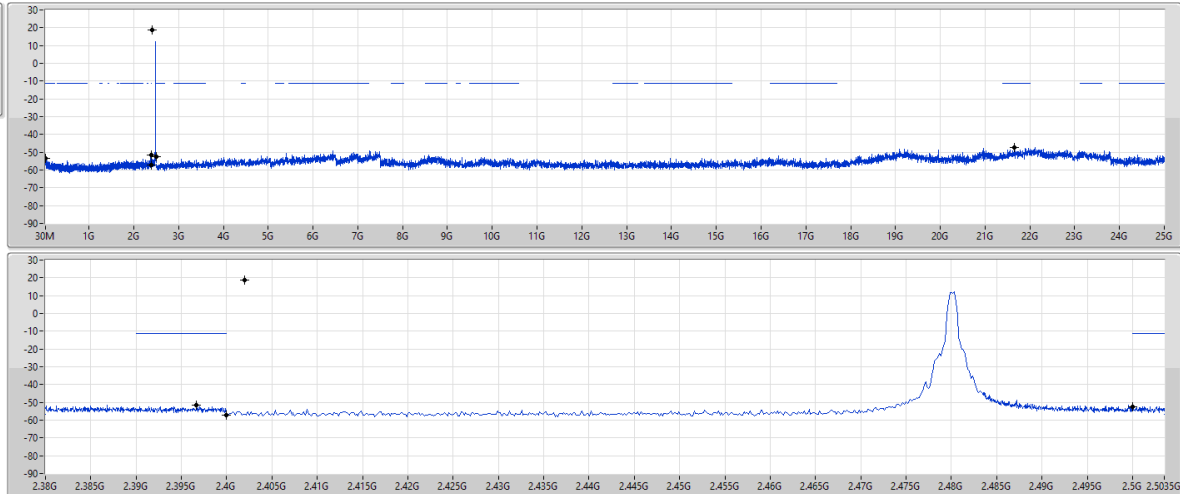
2.4-2.4835GHz_BT-LE(1Mbps)

CSEndB-DTS

2480MHz

04/02/2026

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	18.64	-11.36	30M	-53.54	2.39668G	-51.46	2.4G	-57.18	2.50002G	-52.31	21.65365G	-47.42	1

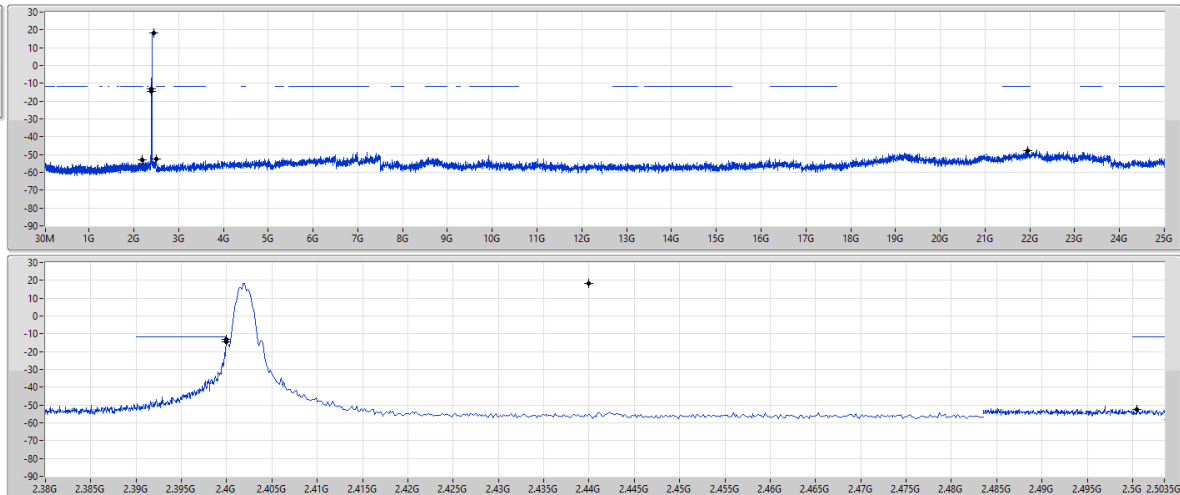
2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2402MHz

04/02/2026

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
2.43991G	18.07	-11.93	2.1826G	-53.19	2.4G	-13.01	2.4G	-14.75	2.50046G	-52.53	21.94329G	-47.71	1

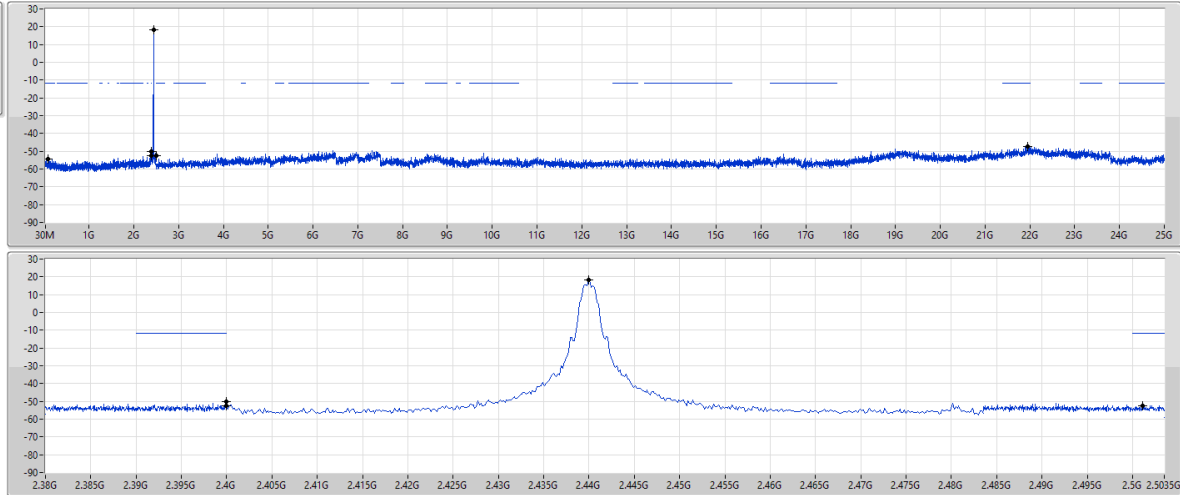
2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2440MHz

04/02/2026

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



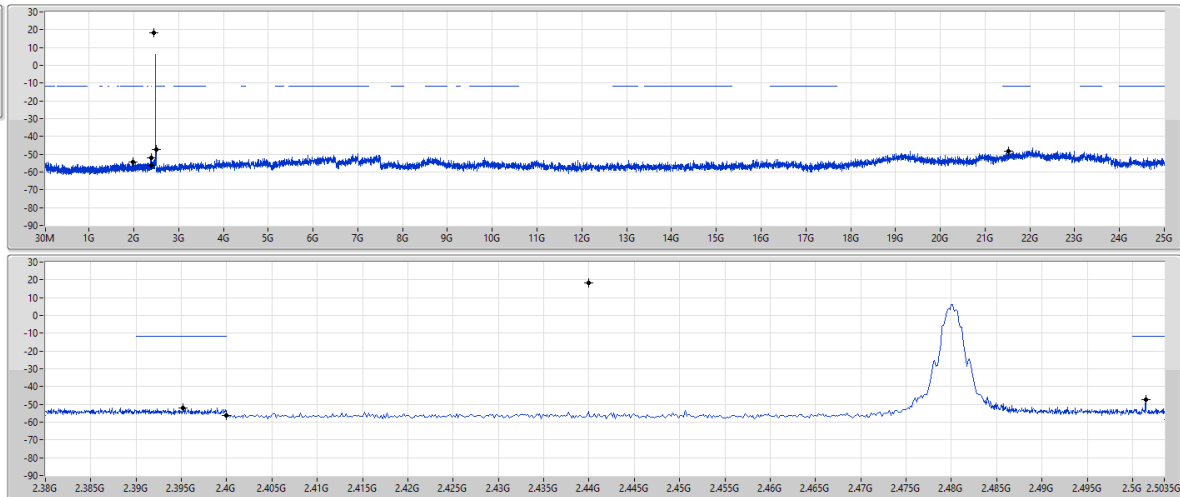
2.4-2.4835GHz_BT-LE(2Mbps)

CSEndB-DTS

2480MHz

04/02/2026

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





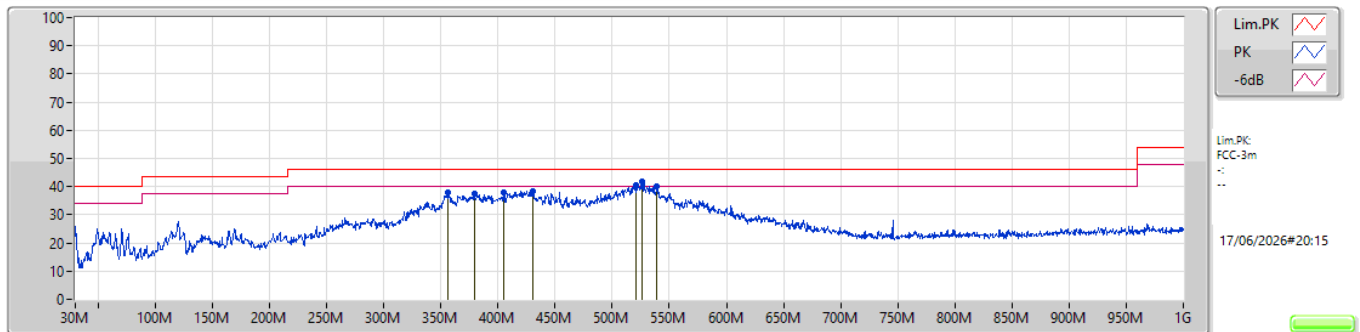
Radiated Emissions below 1GHz

Appendix F.1

Summary

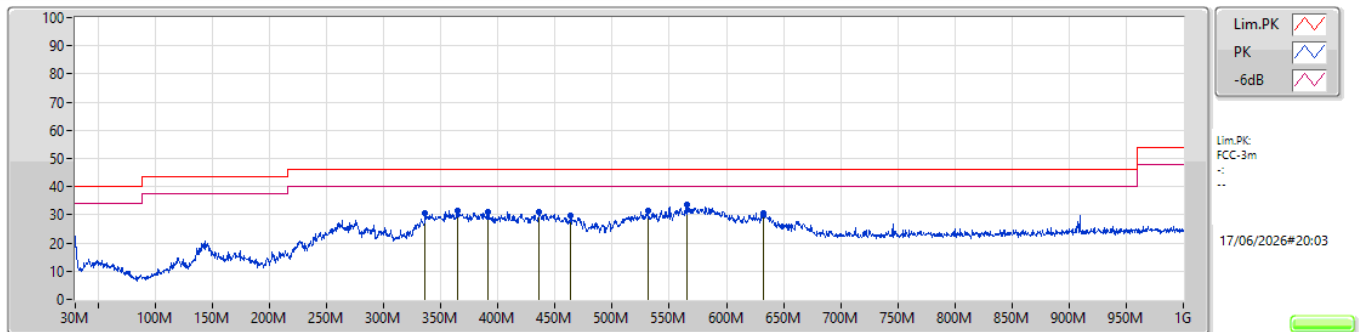
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 10	Pass	PK	525.67M	41.94	46.00	-4.06	Vertical

Mode 10



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)		
PK	356.41M	37.76	46.00	-8.24	-31.26	3	Vertical	132	2.00	-	69.02	20.33	2.34	53.93		
PK	379.2M	37.53	46.00	-8.47	-30.33	3	Vertical	155	2.00	-	67.86	21.12	2.43	53.88		
PK	405.39M	37.83	46.00	-8.17	-29.54	3	Vertical	41	1.00	-	67.37	21.77	2.50	53.81		
PK	430.13M	38.41	46.00	-7.59	-28.70	3	Vertical	238	1.00	-	67.11	22.49	2.48	53.67		
PK	520.34M	40.67	46.00	-5.33	-26.39	3	Vertical	222	1.00	-	67.06	23.99	2.91	53.29		
PK	525.67M	41.94	46.00	-4.06	-26.27	3	Vertical	45	1.00	"Worst"	68.21	24.05	2.94	53.26		
PK	539.25M	40.30	46.00	-5.70	-25.96	3	Vertical	138	1.00	-	66.26	24.19	3.01	53.16		

Mode 10



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)		
PK	336.04M	30.41	46.00	-15.59	-31.40	3	Horizontal	89	3.00	-	61.81	20.18	2.28	53.86		
PK	365.14M	31.45	46.00	-14.55	-30.93	3	Horizontal	128	2.00	-	62.38	20.61	2.37	53.91		
PK	390.84M	31.05	46.00	-14.95	-29.93	3	Horizontal	77	2.00	-	60.98	21.46	2.47	53.86		
PK	435.95M	31.19	46.00	-14.81	-28.48	3	Horizontal	153	1.00	-	59.67	22.67	2.48	53.63		
PK	463.59M	29.56	46.00	-16.44	-27.81	3	Horizontal	92	1.00	-	57.37	23.15	2.56	53.52		
PK	531.01M	31.60	46.00	-14.40	-26.08	3	Horizontal	76	2.00	-	57.68	24.17	2.97	53.22		
PK	565.93M	33.57	46.00	-12.43	-25.18	3	Horizontal	149	2.00	"Worst"	58.75	24.70	3.17	53.05		
PK	632.37M	30.73	46.00	-15.27	-23.18	3	Horizontal	217	3.00	-	53.91	26.14	3.56	52.88		

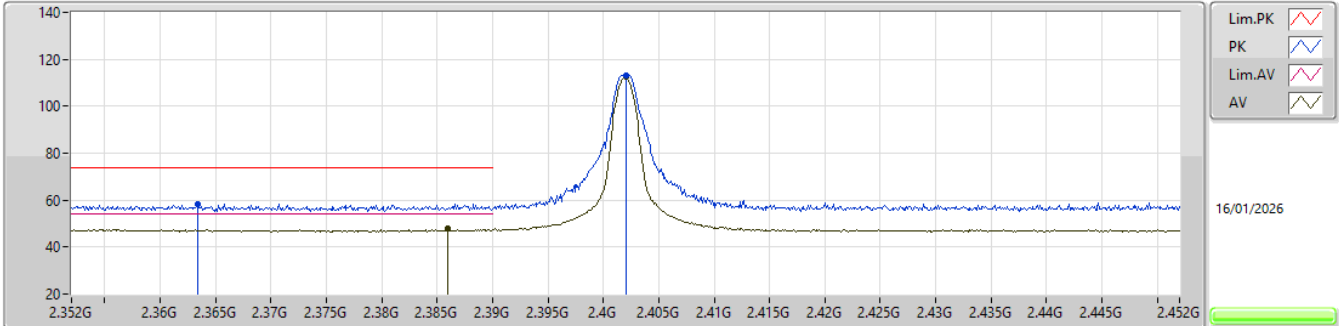


Summary

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	53.96	54.00	-0.04	3	Horizontal	304	2.81	-

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

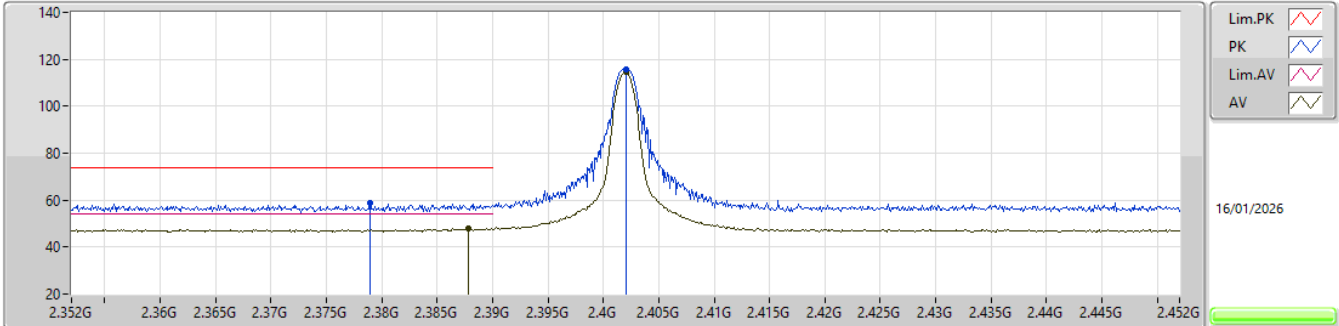


EUT_Y_1TX
Setting 180
04-W-G-5

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	2.3634G	58.44	74.00	-15.56	25.16	3	Vertical	30	2.76	-	27.67	5.61	-			
AV	2.3859G	47.82	54.00	-6.18	14.63	3	Vertical	30	2.76	-	27.56	5.63	-			
PK	2.402G	113.25	Inf	-Inf	80.03	3	Vertical	30	2.76	-	27.58	5.64	-			
AV	2.402G	112.34	Inf	-Inf	79.12	3	Vertical	30	2.76	-	27.58	5.64	-			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

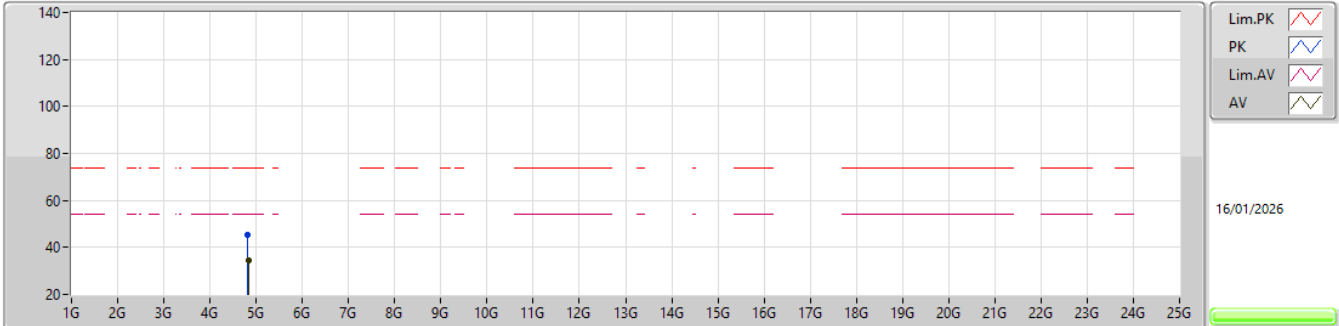


EUT_Y_1TX
Setting 180
04-W-G-5

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	2.3789G	58.70	74.00	-15.30	25.57	3	Horizontal	308	3.00	-	27.51	5.62	-				
AV	2.3878G	47.93	54.00	-6.07	14.72	3	Horizontal	308	3.00	-	27.58	5.63	-				
PK	2.4021G	115.57	Inf	-Inf	82.35	3	Horizontal	308	3.00	-	27.58	5.64	-				
AV	2.402G	114.66	Inf	-Inf	81.44	3	Horizontal	308	3.00	-	27.58	5.64	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

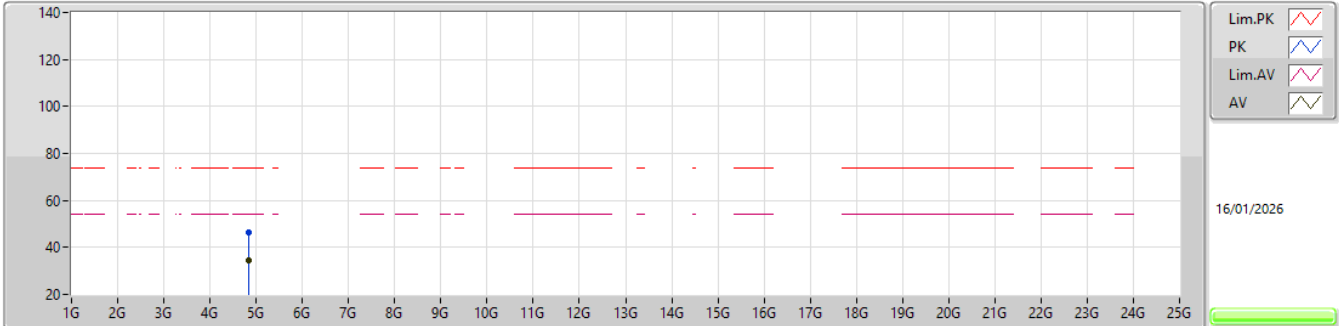


EUT_V_1TX
Setting 180
04-W-G-5

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	4.8127G	45.49	74.00	-28.51	49.94	3	Vertical	221	1.54	-	31.40	8.11	43.96			
AV	4.8262G	34.53	54.00	-19.47	38.96	3	Vertical	221	1.54	-	31.40	8.13	43.96			

2.4-2.4835GHz_BT-LE(1Mbps)

2402MHz_TX

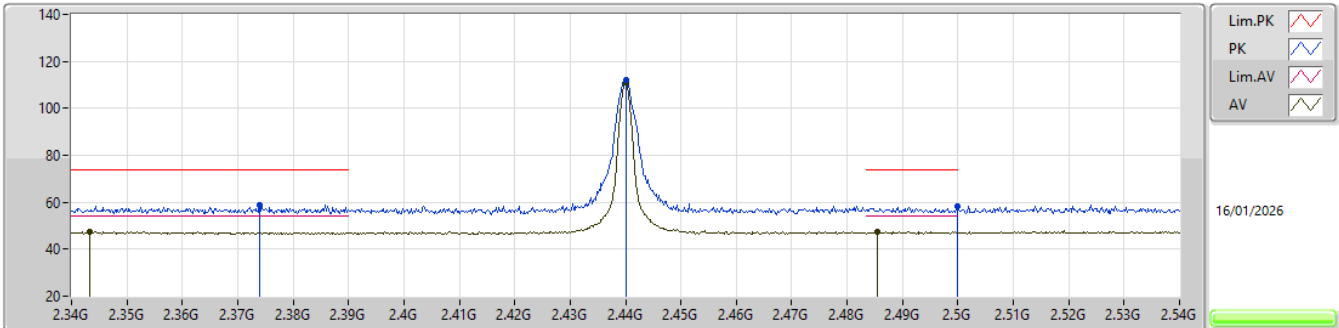


EUT_V_1TX
Setting 180
04-W-G-5

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	4.8259G	46.52	74.00	-27.48	50.95	3	Horizontal	68	2.97	-	31.40	8.13	43.96			
AV	4.8421G	34.72	54.00	-19.28	39.13	3	Horizontal	68	2.97	-	31.40	8.14	43.95			

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

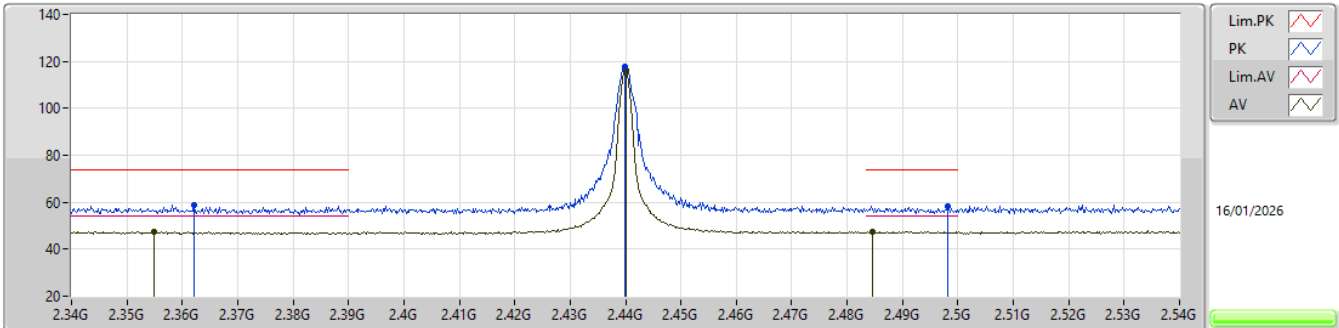


EUT_Y_1TX
Setting 180
04-W-G-5

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	2.374G	59.02	74.00	-14.98	25.84	3	Vertical	124	3.00	-	27.56	5.62	-				
AV	2.3432G	47.45	54.00	-6.55	14.06	3	Vertical	124	3.00	-	27.80	5.59	-				
PK	2.4402G	111.90	Inf	-Inf	78.73	3	Vertical	124	3.00	-	27.50	5.67	-				
AV	2.44G	110.98	Inf	-Inf	77.81	3	Vertical	124	3.00	-	27.50	5.67	-				
PK	2.5G	58.44	74.00	-15.56	25.22	3	Vertical	124	3.00	-	27.50	5.72	-				
AV	2.4854G	47.47	54.00	-6.53	14.16	3	Vertical	124	3.00	-	27.60	5.71	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

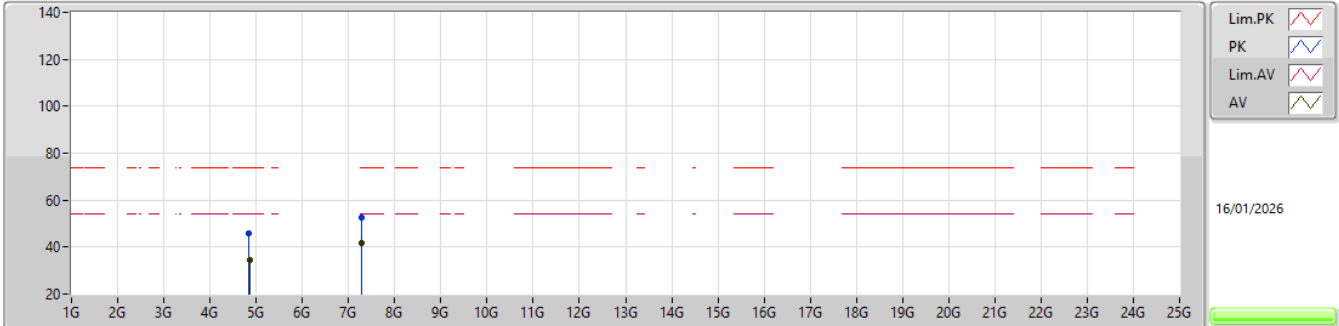


EUT_Y_1TX
Setting 180
04-W-G-5

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	2.3622G	58.99	74.00	-15.01	25.70	3	Horizontal	294	2.87	-	27.68	5.61	-					
AV	2.355G	47.42	54.00	-6.58	14.07	3	Horizontal	294	2.87	-	27.75	5.60	-					
PK	2.4398G	117.54	Inf	-Inf	84.37	3	Horizontal	294	2.87	-	27.50	5.67	-					
AV	2.44G	116.39	Inf	-Inf	83.22	3	Horizontal	294	2.87	-	27.50	5.67	-					
PK	2.4982G	58.30	74.00	-15.70	25.06	3	Horizontal	294	2.87	-	27.52	5.72	-					
AV	2.4846G	47.51	54.00	-6.49	14.20	3	Horizontal	294	2.87	-	27.60	5.71	-					

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

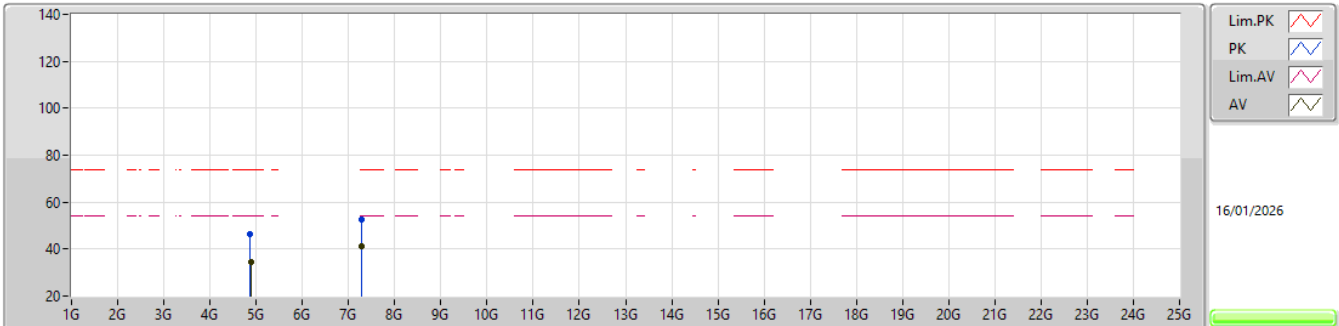


EUT_Y_1TX
Setting 180
04-W-G-5

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	4.8427G	45.76	74.00	-28.24	50.17	3	Vertical	61	2.99	-	31.40	8.14	43.95				
AV	4.8512G	34.56	54.00	-19.44	38.96	3	Vertical	61	2.99	-	31.40	8.15	43.95				
PK	7.2745G	52.47	74.00	-21.53	48.60	3	Vertical	205	1.58	-	36.20	10.35	42.68				
AV	7.2826G	41.52	54.00	-12.48	37.64	3	Vertical	205	1.58	-	36.20	10.35	42.67				

2.4-2.4835GHz_BT-LE(1Mbps)

2440MHz_TX

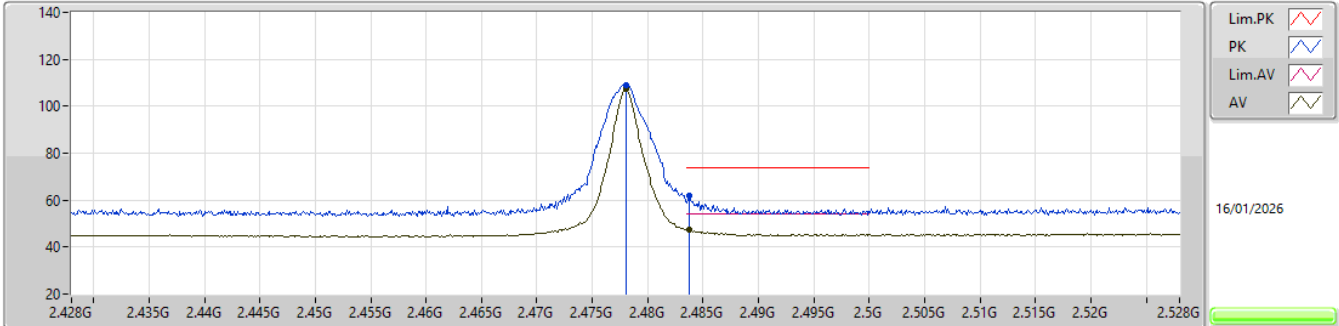


EUT_Y_1TX
Setting 180
04-W-G-5

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	4.8529G	46.25	74.00	-27.75	50.65	3	Horizontal	302	1.40	-	31.39	8.16	43.95				
AV	4.8863G	34.62	54.00	-19.38	39.04	3	Horizontal	302	1.40	-	31.33	8.19	43.94				
PK	7.2788G	52.40	74.00	-21.60	48.53	3	Horizontal	346	2.39	-	36.20	10.35	42.68				
AV	7.2752G	41.40	54.00	-12.60	37.53	3	Horizontal	346	2.39	-	36.20	10.35	42.68				

2.4-2.4835GHz_BT-LE(1Mbps)

2478MHz_TX

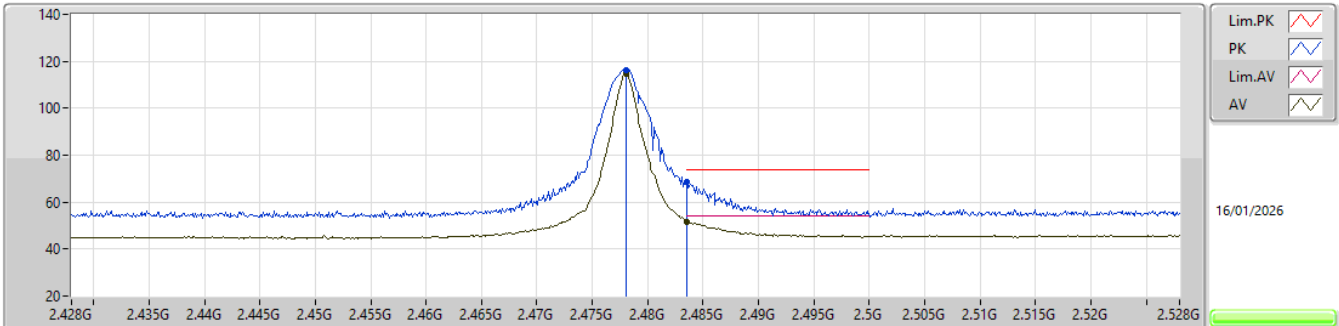


EUT_Y_1TX
Setting 180
03-E-G-5

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	2.478G	108.79	Inf	-Inf	76.11	3	Vertical	85	2.90	-	28.40	4.28	-				
AV	2.478G	107.34	Inf	-Inf	74.66	3	Vertical	85	2.90	-	28.40	4.28	-				
PK	2.4837G	61.92	74.00	-12.08	29.24	3	Vertical	85	2.90	-	28.40	4.28	-				
AV	2.4837G	47.23	54.00	-6.77	14.55	3	Vertical	85	2.90	-	28.40	4.28	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2478MHz_TX

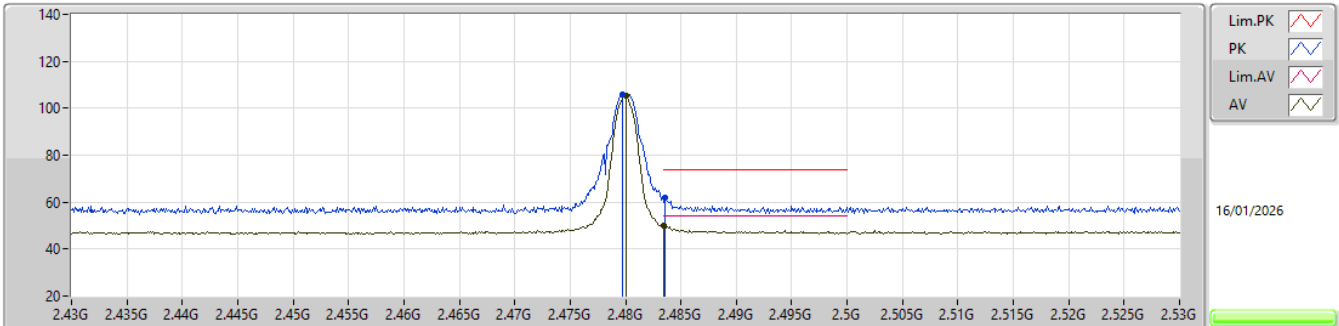


EUT_Y_1TX
Setting 180
03-E-G-5

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	2.478G	116.37	Inf	-Inf	83.69	3	Horizontal	292	1.80	-	28.40	4.28	-				
AV	2.4781G	114.79	Inf	-Inf	82.11	3	Horizontal	292	1.80	-	28.40	4.28	-				
PK	2.4835G	68.45	74.00	-5.55	35.77	3	Horizontal	292	1.80	-	28.40	4.28	-				
AV	2.4835G	51.74	54.00	-2.26	19.06	3	Horizontal	292	1.80	-	28.40	4.28	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

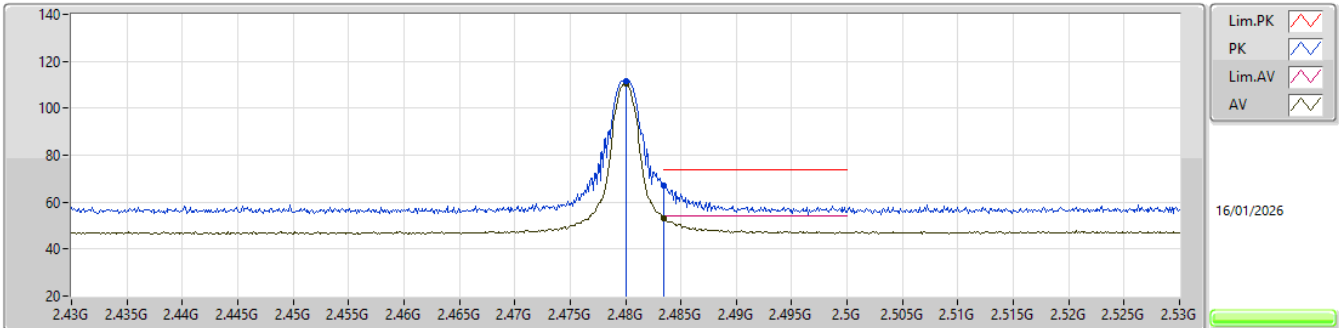


EUT Y_1TX
Setting 120
04-W-G-5

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	2.4797G	105.99	Inf	-Inf	72.68	3	Vertical	126	2.67	-	27.60	5.71	-				
AV	2.48G	105.09	Inf	-Inf	71.78	3	Vertical	126	2.67	-	27.60	5.71	-				
PK	2.4836G	61.86	74.00	-12.14	28.55	3	Vertical	126	2.67	-	27.60	5.71	-				
AV	2.4835G	49.83	54.00	-4.17	16.52	3	Vertical	126	2.67	-	27.60	5.71	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

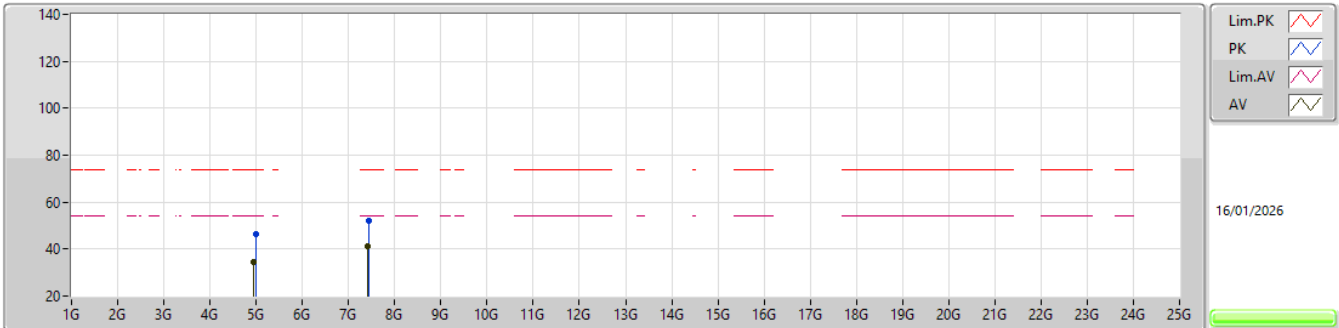


EUT_Y_1TX
Setting 120
04-W-G-5

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	2.4801G	111.57	Inf	-Inf	78.26	3	Horizontal	306	2.30	-	27.60	5.71	-				
AV	2.4801G	110.43	Inf	-Inf	77.12	3	Horizontal	306	2.30	-	27.60	5.71	-				
PK	2.4835G	67.23	74.00	-6.77	33.92	3	Horizontal	306	2.30	-	27.60	5.71	-				
AV	2.4835G	53.15	54.00	-0.85	19.84	3	Horizontal	306	2.30	-	27.60	5.71	-				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

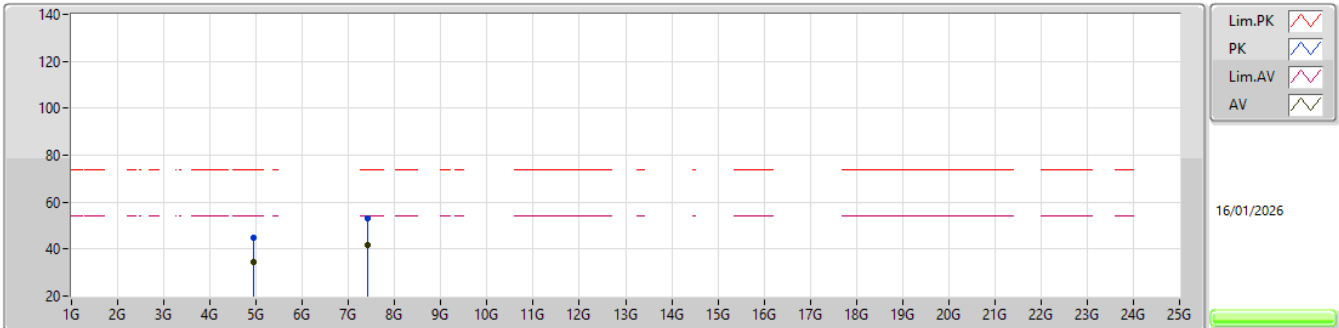


EUT_Y_1TX
Setting 120
04-W-G-5

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	4.9931G	46.40	74.00	-27.60	50.43	3	Vertical	174	1.29	-	31.57	8.30	43.90				
AV	4.9348G	34.62	54.00	-19.38	38.93	3	Vertical	174	1.29	-	31.37	8.24	43.92				
PK	7.4434G	52.31	74.00	-21.69	48.25	3	Vertical	268	2.65	-	36.19	10.45	42.58				
AV	7.4155G	41.27	54.00	-12.73	37.27	3	Vertical	268	2.65	-	36.13	10.46	42.59				

2.4-2.4835GHz_BT-LE(1Mbps)

2480MHz_TX

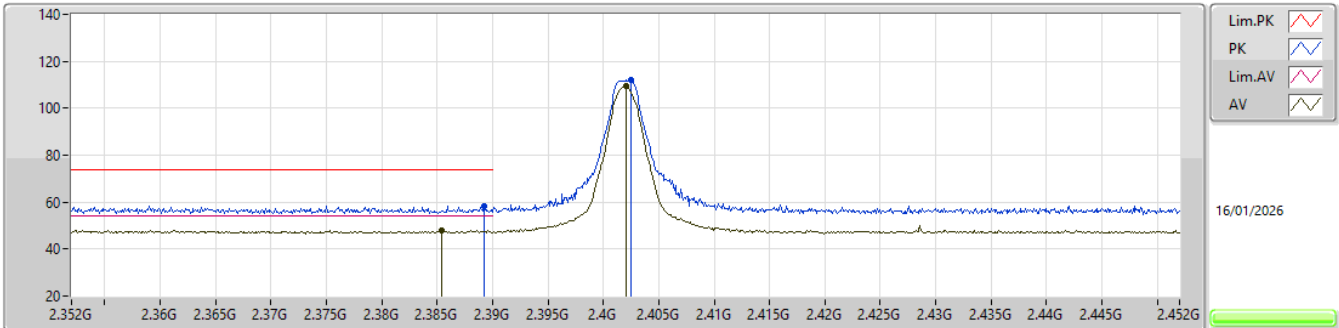


EUT_Y_1TX
Setting 120
04-W-G-5

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	4.9514G	45.02	74.00	-28.98	49.27	3	Horizontal	99	1.74	-	31.41	8.26	43.92				
AV	4.9551G	34.44	54.00	-19.56	38.68	3	Horizontal	99	1.74	-	31.42	8.26	43.92				
PK	7.4159G	52.99	74.00	-21.01	48.99	3	Horizontal	350	1.87	-	36.13	10.46	42.59				
AV	7.4159G	41.47	54.00	-12.53	37.47	3	Horizontal	350	1.87	-	36.13	10.46	42.59				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

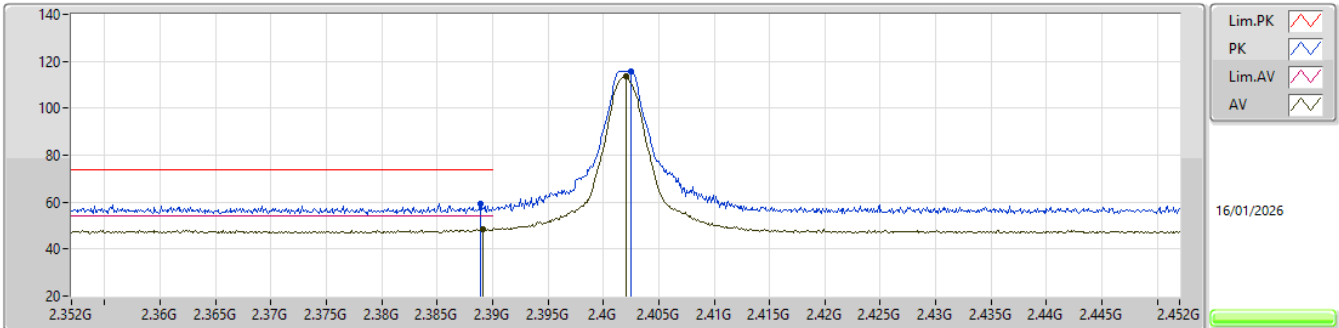


EUT_Y_1TX
Setting 180
04-W-G-5

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	2.3892G	58.13	74.00	-15.87	24.91	3	Vertical	358	2.78	-	27.59	5.63	-				
AV	2.3854G	47.90	54.00	-6.10	14.72	3	Vertical	358	2.78	-	27.55	5.63	-				
PK	2.4025G	111.87	Inf	-Inf	78.65	3	Vertical	358	2.78	-	27.58	5.64	-				
AV	2.402G	109.56	Inf	-Inf	76.34	3	Vertical	358	2.78	-	27.58	5.64	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

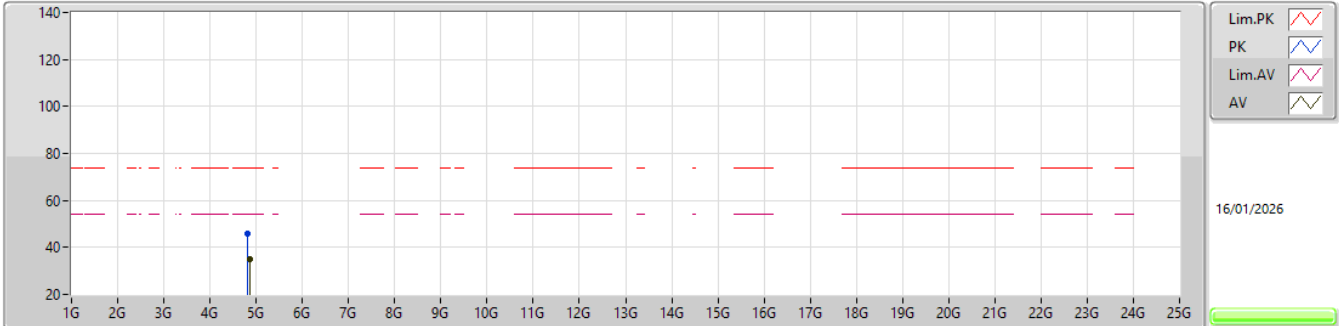


EUT_Y_1TX
Setting 180
04-W-G-5

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	2.3889G	59.41	74.00	-14.59	26.19	3	Horizontal	310	2.98	-	27.59	5.63	-			
AV	2.3891G	48.59	54.00	-5.41	15.37	3	Horizontal	310	2.98	-	27.59	5.63	-			
PK	2.4025G	115.90	Inf	-Inf	82.68	3	Horizontal	310	2.98	-	27.58	5.64	-			
AV	2.402G	113.57	Inf	-Inf	80.35	3	Horizontal	310	2.98	-	27.58	5.64	-			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

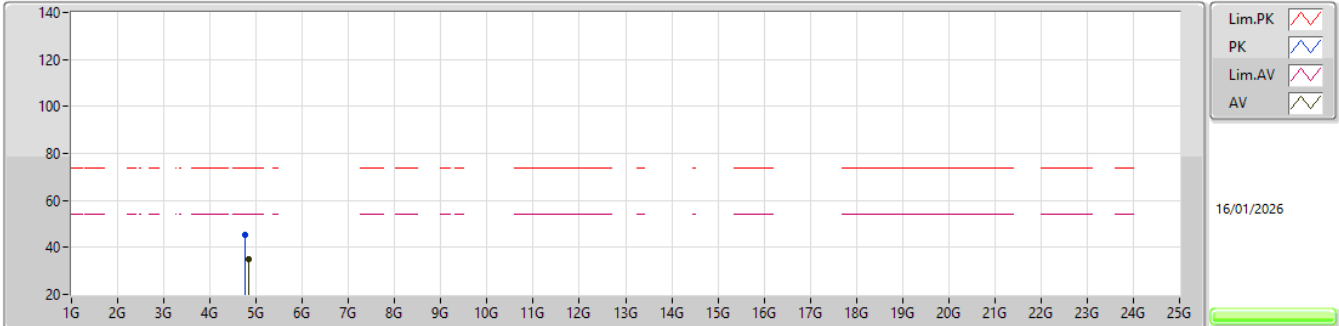


EUT_V_1TX
Setting 180
04-W-G-5

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	4.8162G	46.03	74.00	-27.97	50.47	3	Vertical	21	2.14	-	31.40	8.12	43.96			
AV	4.8538G	35.12	54.00	-18.88	39.52	3	Vertical	21	2.14	-	31.39	8.16	43.95			

2.4-2.4835GHz_BT-LE(2Mbps)

2402MHz_TX

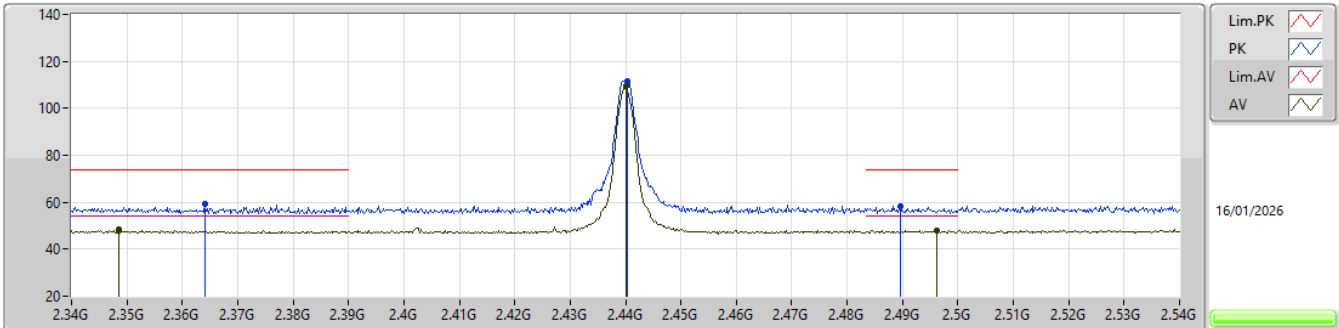


EUT_V_1TX
Setting 180
04-W-G-5

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	4.7541G	45.59	74.00	-28.41	50.19	3	Horizontal	140	2.90	-	31.31	8.07	43.98			
AV	4.8506G	35.00	54.00	-19.00	39.40	3	Horizontal	140	2.90	-	31.40	8.15	43.95			

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

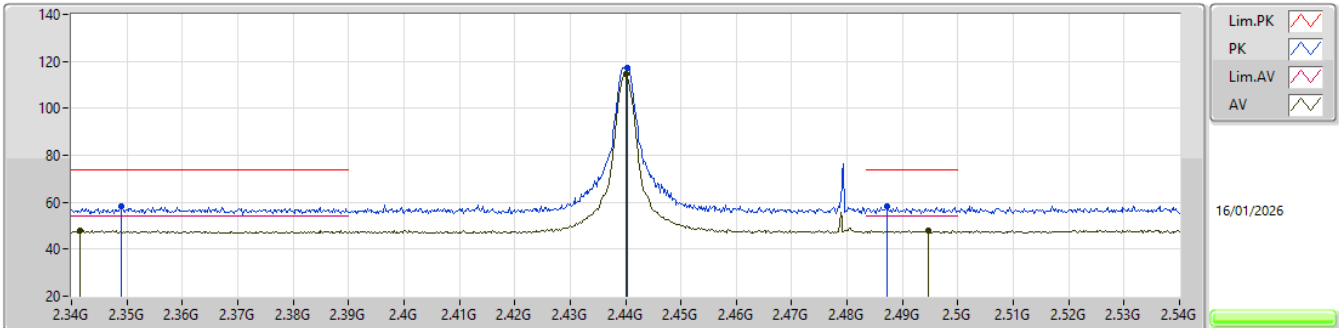


EUT_V_1TX
Setting 180
04-W-G-5

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	2.364G	59.12	74.00	-14.88	25.85	3	Vertical	127	3.00	-	27.66	5.61	-				
AV	2.3486G	48.45	54.00	-5.55	15.05	3	Vertical	127	3.00	-	27.80	5.60	-				
PK	2.4404G	111.66	Inf	-Inf	78.49	3	Vertical	127	3.00	-	27.50	5.67	-				
AV	2.44G	109.39	Inf	-Inf	76.22	3	Vertical	127	3.00	-	27.50	5.67	-				
PK	2.4896G	58.48	74.00	-15.52	25.16	3	Vertical	127	3.00	-	27.60	5.72	-				
AV	2.4962G	48.00	54.00	-6.00	14.74	3	Vertical	127	3.00	-	27.54	5.72	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

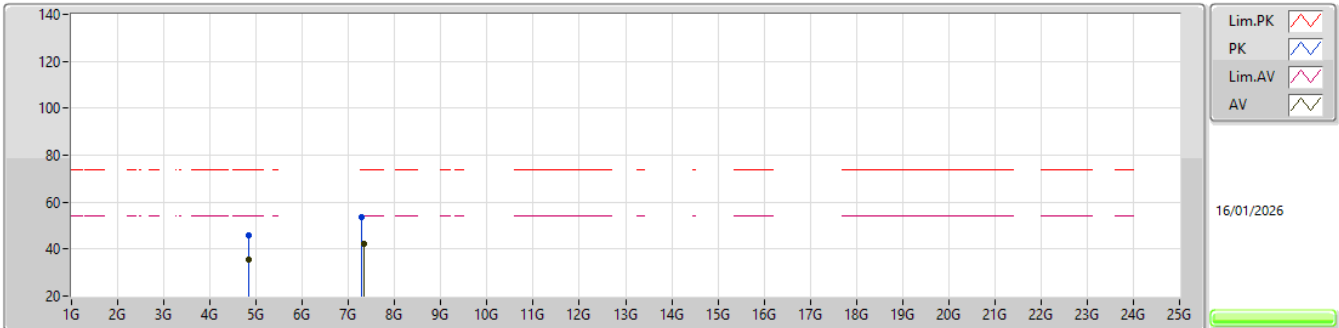


EUT_V_1TX
Setting 180
04-W-G-5

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	2.349G	58.16	74.00	-15.84	24.76	3	Horizontal	298	2.88	-	27.80	5.60	-				
AV	2.3416G	48.18	54.00	-5.82	14.79	3	Horizontal	298	2.88	-	27.80	5.59	-				
PK	2.4404G	117.14	Inf	-Inf	83.97	3	Horizontal	298	2.88	-	27.50	5.67	-				
AV	2.44G	114.87	Inf	-Inf	81.70	3	Horizontal	298	2.88	-	27.50	5.67	-				
PK	2.4872G	58.28	74.00	-15.72	24.97	3	Horizontal	298	2.88	-	27.60	5.71	-				
AV	2.4946G	47.79	54.00	-6.21	14.52	3	Horizontal	298	2.88	-	27.55	5.72	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

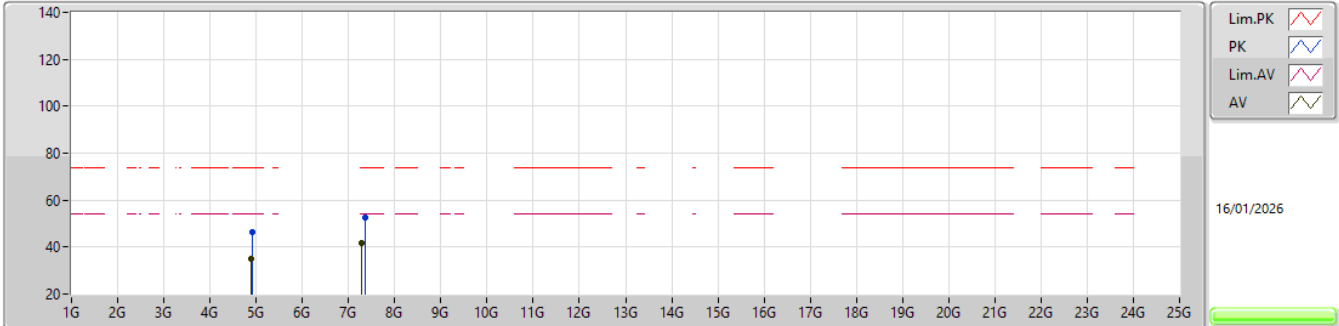


EUT_Y_1TX
Setting 180
04-W-G-5

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	4.836G	45.84	74.00	-28.16	50.26	3	Vertical	94	2.87	-	31.40	8.14	43.96				
AV	4.8509G	35.44	54.00	-18.56	39.84	3	Vertical	94	2.87	-	31.40	8.15	43.95				
PK	7.2725G	53.87	74.00	-20.13	50.00	3	Vertical	351	2.78	-	36.20	10.35	42.68				
AV	7.3295G	42.04	54.00	-11.96	38.09	3	Vertical	351	2.78	-	36.20	10.40	42.65				

2.4-2.4835GHz_BT-LE(2Mbps)

2440MHz_TX

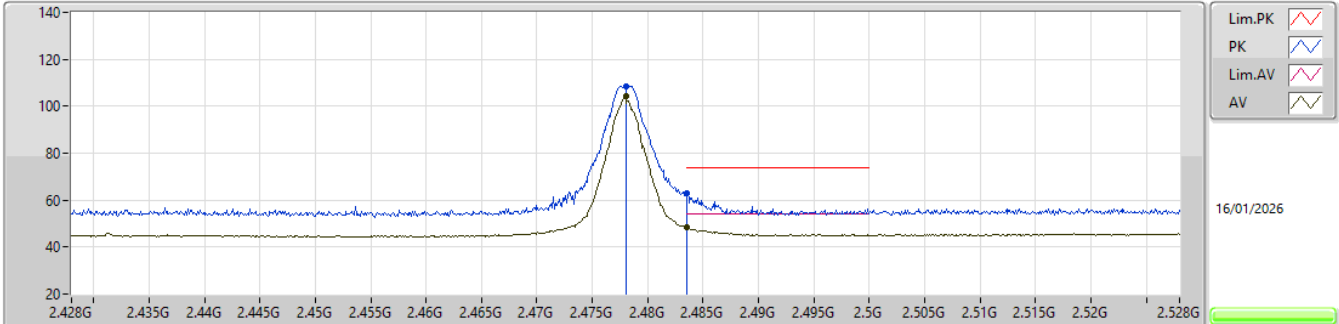


EUT_Y_1TX
Setting 180
04-W-G-5

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	4.9089G	46.33	74.00	-27.67	50.73	3	Horizontal	127	2.40	-	31.32	8.21	43.93				
AV	4.8906G	35.03	54.00	-18.97	39.45	3	Horizontal	127	2.40	-	31.32	8.20	43.94				
PK	7.3592G	52.50	74.00	-21.50	48.53	3	Horizontal	142	2.75	-	36.18	10.42	42.63				
AV	7.2754G	41.92	54.00	-12.08	38.05	3	Horizontal	142	2.75	-	36.20	10.35	42.68				

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX

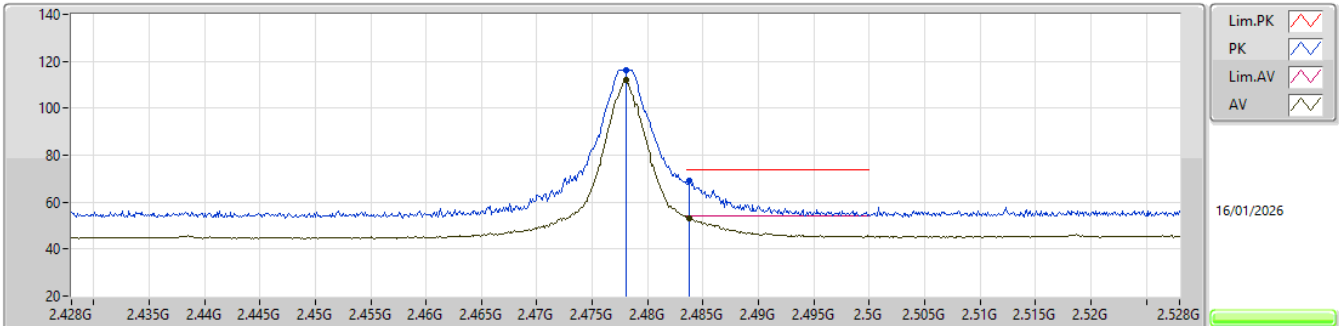


EUT_Y_1TX
Setting 180
03-E-G-5

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	2.478G	108.51	Inf	-Inf	75.83	3	Vertical	81	2.77	-	28.40	4.28	-				
AV	2.478G	104.14	Inf	-Inf	71.46	3	Vertical	81	2.77	-	28.40	4.28	-				
PK	2.4835G	62.98	74.00	-11.02	30.30	3	Vertical	81	2.77	-	28.40	4.28	-				
AV	2.4835G	48.46	54.00	-5.54	15.78	3	Vertical	81	2.77	-	28.40	4.28	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2478MHz_TX

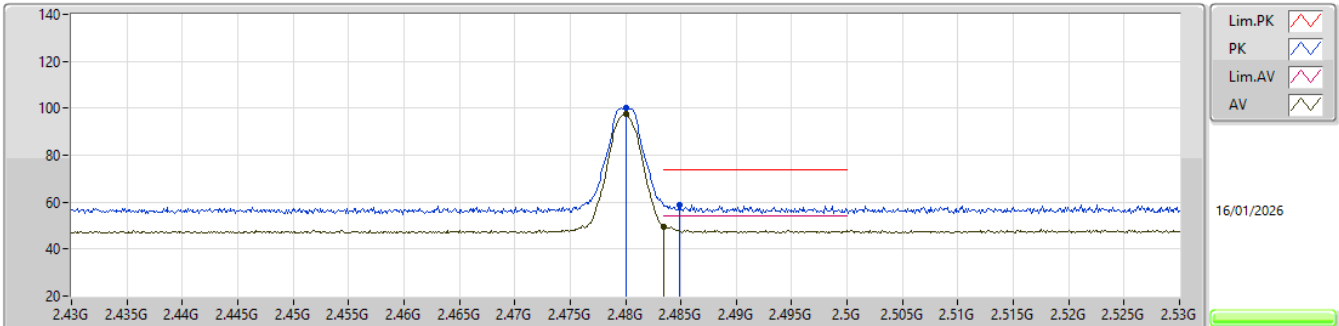


EUT_Y_1TX
Setting 180
03-E-G-5

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	2.478G	116.44	Inf	-Inf	83.76	3	Horizontal	291	1.80	-	28.40	4.28	-				
AV	2.478G	111.86	Inf	-Inf	79.18	3	Horizontal	291	1.80	-	28.40	4.28	-				
PK	2.4838G	69.21	74.00	-4.79	36.53	3	Horizontal	291	1.80	-	28.40	4.28	-				
AV	2.4837G	53.30	54.00	-0.70	20.62	3	Horizontal	291	1.80	-	28.40	4.28	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

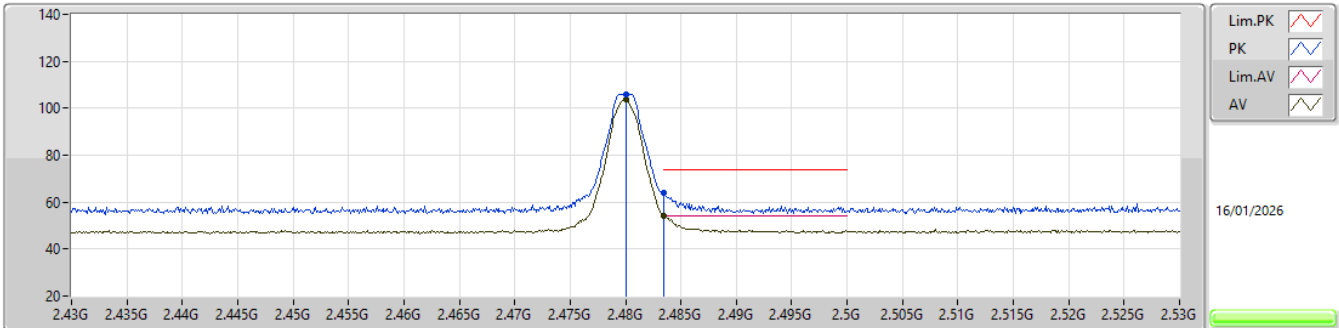


EUT Y_1TX
Setting 70
04-W-G-5

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	99.93	Inf	-Inf	66.62	3	Vertical	72	2.92	-	27.60	5.71	-				
AV	2.48G	97.60	Inf	-Inf	64.29	3	Vertical	72	2.92	-	27.60	5.71	-				
PK	2.4849G	58.92	74.00	-15.08	25.61	3	Vertical	72	2.92	-	27.60	5.71	-				
AV	2.4835G	49.67	54.00	-4.33	16.36	3	Vertical	72	2.92	-	27.60	5.71	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

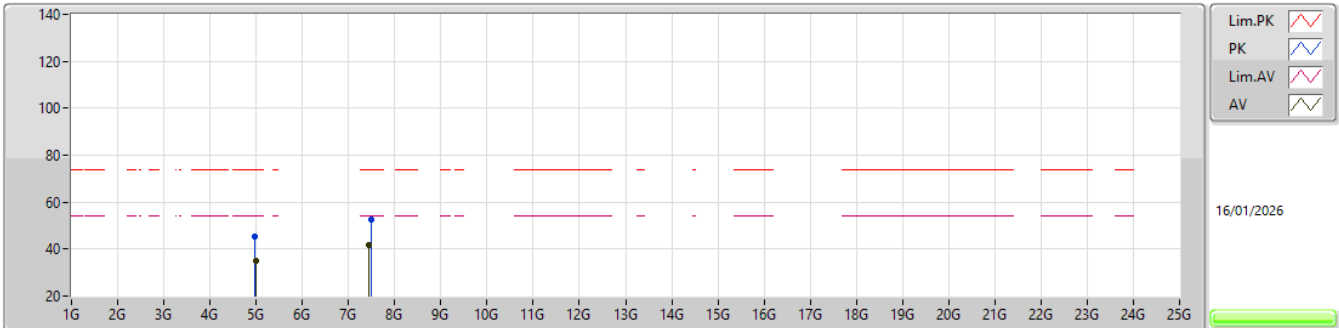


EUT_Y_1TX
Setting 70
04-W-G-5

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	106.05	Inf	-Inf	72.74	3	Horizontal	304	2.81	-	27.60	5.71	-				
AV	2.48G	103.73	Inf	-Inf	70.42	3	Horizontal	304	2.81	-	27.60	5.71	-				
PK	2.4835G	63.74	74.00	-10.26	30.43	3	Horizontal	304	2.81	-	27.60	5.71	-				
AV	2.4835G	53.96	54.00	-0.04	20.65	3	Horizontal	304	2.81	-	27.60	5.71	-				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX

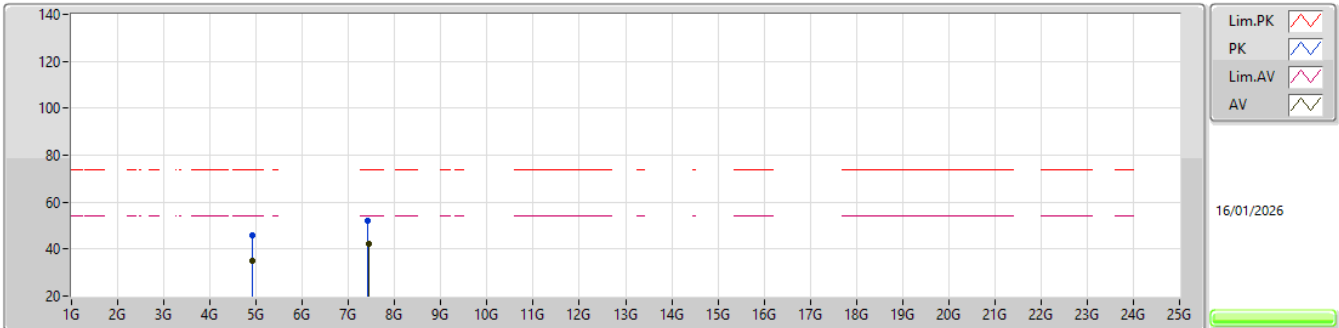


EUT_Y_1TX
Setting 70
04-W-G-5

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	4.9736G	45.56	74.00	-28.44	49.70	3	Vertical	233	2.16	-	31.49	8.28	43.91				
AV	5.0036G	34.97	54.00	-19.03	38.97	3	Vertical	233	2.16	-	31.59	8.31	43.90				
PK	7.4853G	52.41	74.00	-21.59	48.33	3	Vertical	258	2.45	-	36.20	10.43	42.55				
AV	7.4432G	41.86	54.00	-12.14	37.80	3	Vertical	258	2.45	-	36.19	10.45	42.58				

2.4-2.4835GHz_BT-LE(2Mbps)

2480MHz_TX



EUT_Y_1TX
Setting 70
04-W-G-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	4.9183G	45.71	74.00	-28.29	50.08	3	Horizontal	236	2.19	-	31.34	8.22	43.93			
AV	4.9141G	34.90	54.00	-19.10	39.28	3	Horizontal	236	2.19	-	31.33	8.22	43.93			
PK	7.4143G	52.19	74.00	-21.81	48.19	3	Horizontal	35	2.19	-	36.13	10.46	42.59			
AV	7.4398G	42.06	54.00	-11.94	38.01	3	Horizontal	35	2.19	-	36.18	10.45	42.58			