FCC Radio Test Report

FCC ID	:	**C3K2043**
Equipment	:	**Desktop Computer**
Brand Name	:	**Microsoft Corporation**
Model Name	:	**2043**
Applicant	:	**Microsoft Corporation One Microsoft Way Redmond, WA 98052 Redmond**
Manufacturer	:	**Microsoft Corporation One Microsoft Way Redmond, WA 98052 Redmond**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Feb. 24, 2022, and testing was started from Feb. 24, 2022 and completed on Aug. 31, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.

Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)

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PHOTOGRAPHS OF EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FR232102AL	01	Initial issue of report	Aug. 05, 2022
FR232102AL	02	Add 125kbps/500kbps mode This report is the latest version replacing for the report issued on Aug. 05, 2022	Sep. 01, 2022

Summary of Test Result

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

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
None

Reviewed by: Ben Tseng

Report Producer: Jenny Yang

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

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	AWAN	1415-09GL0QS	PIFA	I-Pex	2.4G+5G+BT
2	AWAN	1415-09GK0QS	PIFA	I-Pex	2.4G+5G

Antenna 1		Antenna 2	
Frequency (MHz)	Peak Gain (dBi)	Frequency (MHz)	Peak Gain (dBi)
2400	1.14	2400	1.93
2412	1.20	2412	2.16
2442	1.28	2442	2.40
2450	1.42	2450	2.47
2484	1.44	2484	2.83
2500	1.64	2500	2.80
5150	4.25	5150	4.55
5250	4.64	5250	4.69
5350	4.87	5350	4.68
5470	5.18	5470	5.10
5600	5.36	5600	5.27
5725	5.15	5725	5.57
5850	4.96	5850	5.65

Note 1: The EUT has two antennas.

For 2.4GHz function:
For IEEE 802.11 b/g/n/ax mode (1TX/1RX)
Support diversity function that each single chain was tested and recorded in this test report.
For IEEE 802.11 b/g/n/ax mode (2TX/2RX)
Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.
For BT function:
For IEEE 802.15.1 Bluetooth mode (1TX/1RX)
Ant. 1 (port 1) could transmit/receive.
For 5GHz function:
For IEEE 802.11 a/n/ac/ax mode (1TX/1RX)
Support diversity function that each single chain was tested and recorded in this test report.
For IEEE 802.11 a/n/ac/ax mode (2TX/2RX)
Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point

Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	…
☐	Other:	

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-LE(1Mbps)	0.626	2.03	391.25u	3k
BT-LE(2Mbps)	0.329	4.83	205.938u	10k
BT-LE(125kbps)	0.836	0.78	3.103m	1k
BT-LE(500kbps)	0.548	2.61	1.07m	1k

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

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013

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

- KDB 558074 D01 v05r02
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
(TAF: 3785**)**	**TEL:** 886-3-327-3456		**FAX:** 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
AC Conduction	CO04-HY	Wayne Chiu	21.6~22.7°C / 54~62%	27/Apr/2022~04/May/2022
RF Conducted	TH01-HY	Johnny Yu	21.8~25°C / 52~64%	24/Feb/2022~31/Aug/2022
Radiated	03CH02-HY	Lego Lin	20.1~26°C / 50~62%	01/Mar/2022~30/Aug/2022
☐ Wen 33rd.St.	**ADD:** No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
(TAF: 3785**)**	**TEL:** 886-3-318-0787		**FAX:** 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

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)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	QRCT 4.0.00189.0

2.2 The Worst Case Measurement Configuration

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

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz (Full RU) B mode + Bluetooth
2	WLAN 5GHz (Full RU) A mode + Bluetooth
3	WLAN 2.4GHz (Partial RU) AX20 mode + Bluetooth
4	WLAN 5GHz (Partial RU) AX20 mode + Bluetooth
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	WLAN 2.4GHz + Bluetooth
2	WLAN 5GHz + Bluetooth
3	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA232102 for Co-location RF Exposure Evaluation.	

2.3 Support Equipment

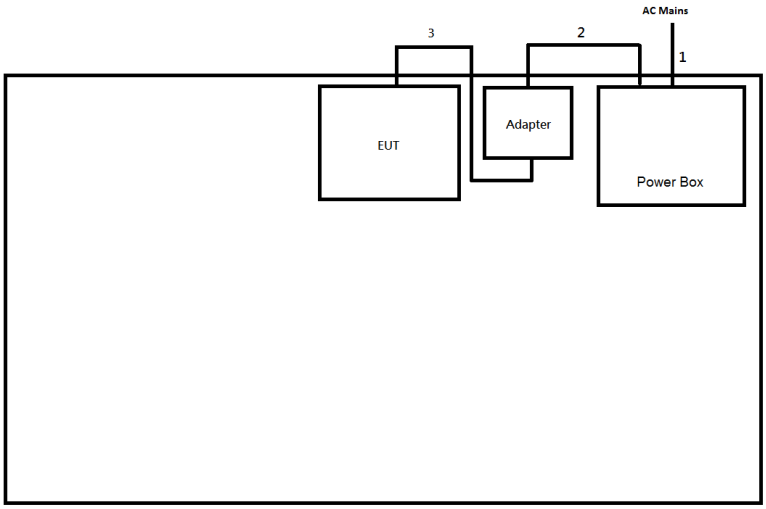
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Mouse(USB)	Lenovo	MOGOUO	-	-
2	Portable SSD(3.1)	TRANSCEND	TS240GESD240C	-	-
3	USB 3.0 Flash	SandDisk	SDDDC-128G-G36	-	-
4	Monitor	ASUS	PB287	-	-
5	Load	Sporton	Sporton	-	-
6	Keyboard	IBM	SK-8815	-	-
7	AC Adapter	Microsoft	1749	-	-

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Monitor	Lenovo	A18270FT0	-	-

Support Equipment –Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Mouse(USB)	Lenovo	MOGOUO	-	-
2	Portable SSD(3.1)	TRANSCEND	TS240GESD240C	-	-
3	USB 3.0 Flash	SandDisk	SDDDC-128G-G36	-	-
4	Monitor	ASUS	PB287	-	-
5	load	Sporton	Sporton	-	-
6	Keyboard	IBM	SK-8815	-	-
7	AC Adapter	Microsoft	1749	-	-

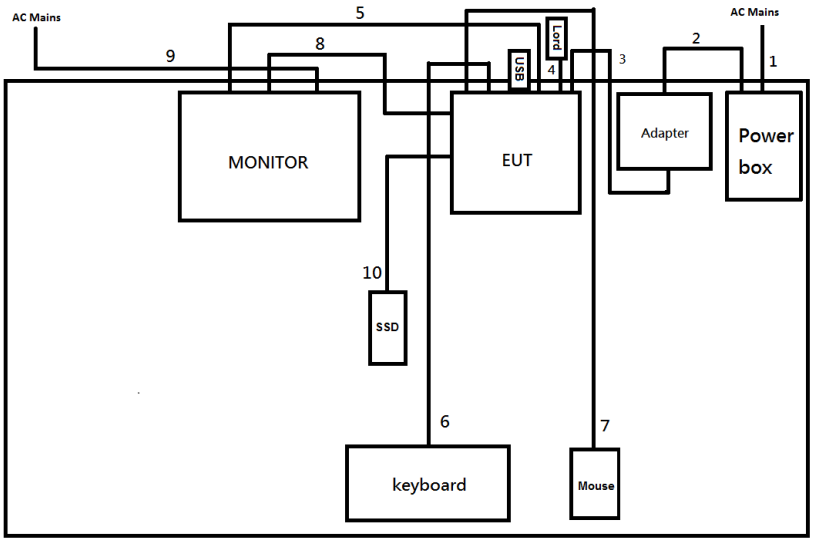
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



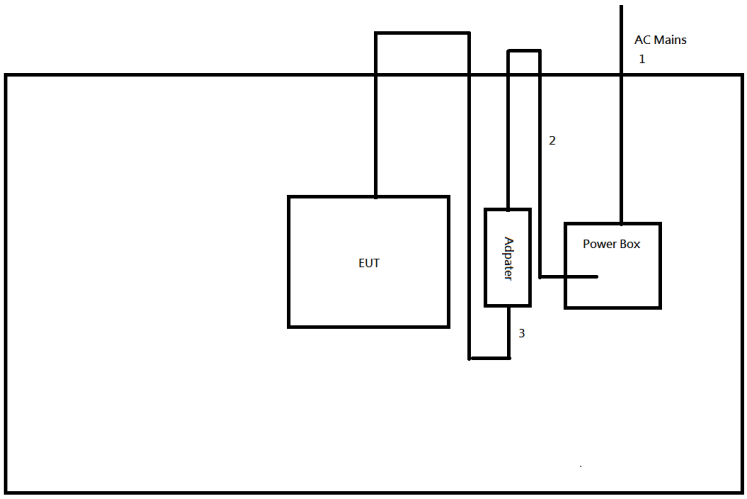
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	0.5	-
3	DC Power cable	No	1.5	-

Test Setup Diagram - AC Line Conducted Emission Test (Full port)



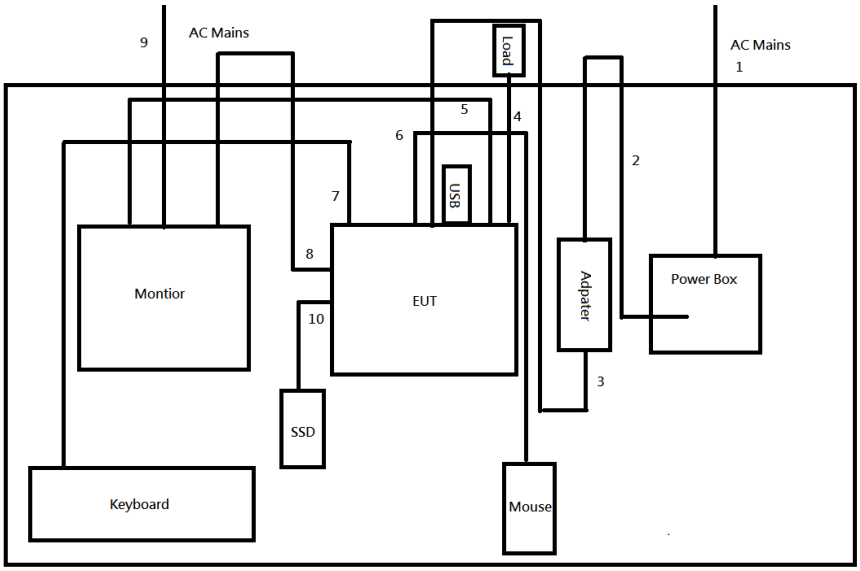
Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	0.5	-
3	DC Power cable	No	1.5	-
4	RJ45 cable	No	1.0	-
5	Mini DP to DP	No	1.8	-
6	USB cable	No	1.7	-
7	USB cable	No	1.0	-
8	Type C to HDMI cable	No	1.8	-
9	AC Power cable	No	1.5	-
10	Type C to Type C cable	No	1.5	-

Test Setup Diagram – Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	0.5	-
3	DC Power cable	No	1.5	-

Test Setup Diagram - Radiated Test (Full port)



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	0.5	-
3	DC Power cable	No	1.5	-
4	RJ45 cable	No	1.0	-
5	Mini DP to DP	No	1.8	-
6	USB cable	No	1.0	-
7	USB cable	No	1.7	-
8	Type C to HDMI cable	No	1.8	-
9	AC Power cable	No	1.5	-
10	Type C to Type C cable	No	1.5	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

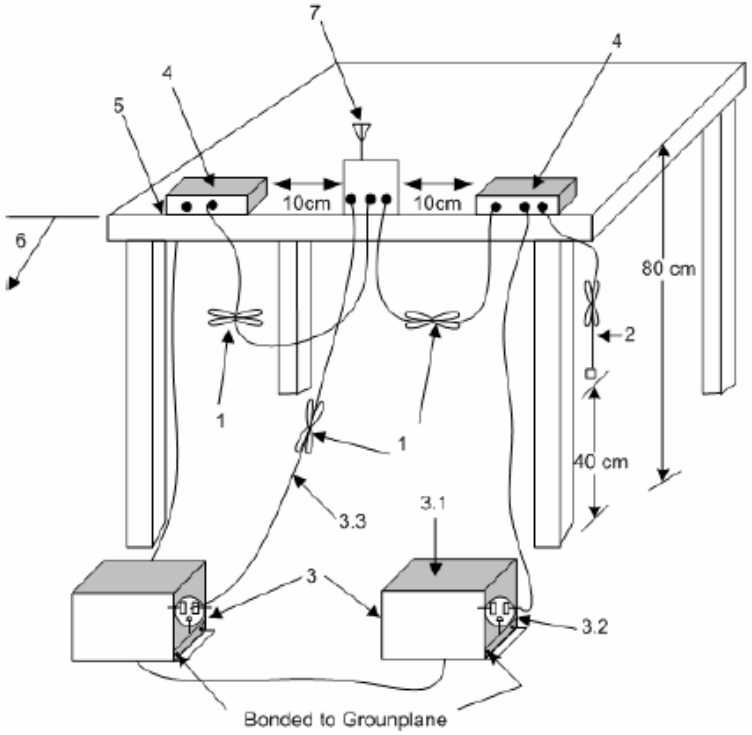
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) +LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

3.2.2 Measuring Instruments

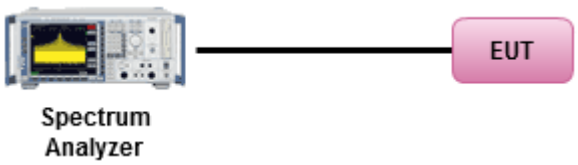
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

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

3.2.4 Test Setup

Emission Bandwidth



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
	☐ Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
	☐ Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
▪ Maximum Average Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
	☒ Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

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

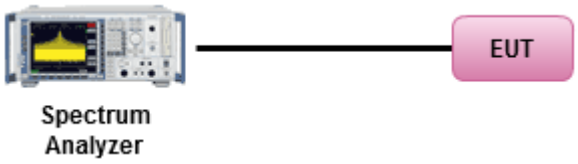
3.4.2 Measuring Instruments

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 KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.	
▪ For conducted measurement.		
	▪ If The EUT supports multiple transmit chains using options given below:	
		▪ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

3.5.2 Measuring Instruments

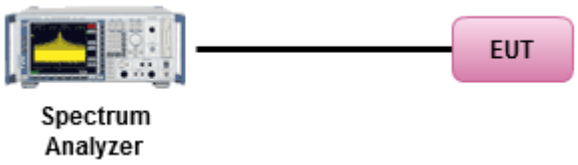
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands



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 below30 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 KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
▪ Use the following spectrum analyzer settings:	
	▪ Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	▪ Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

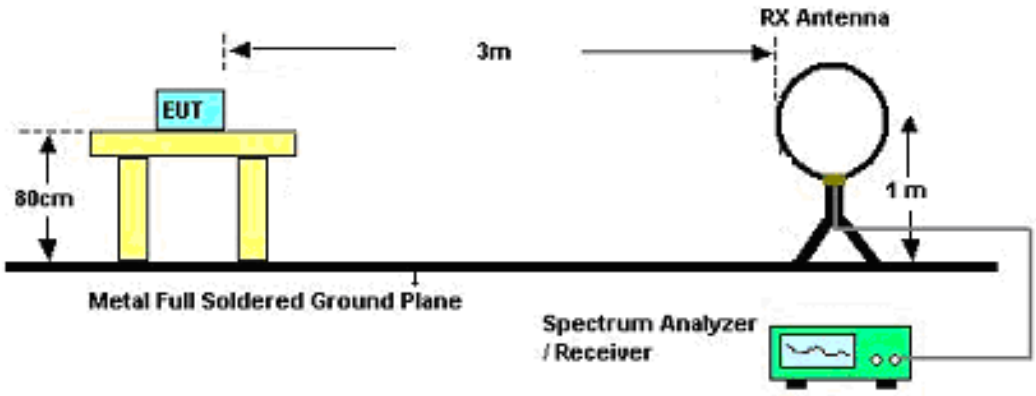
3.6.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

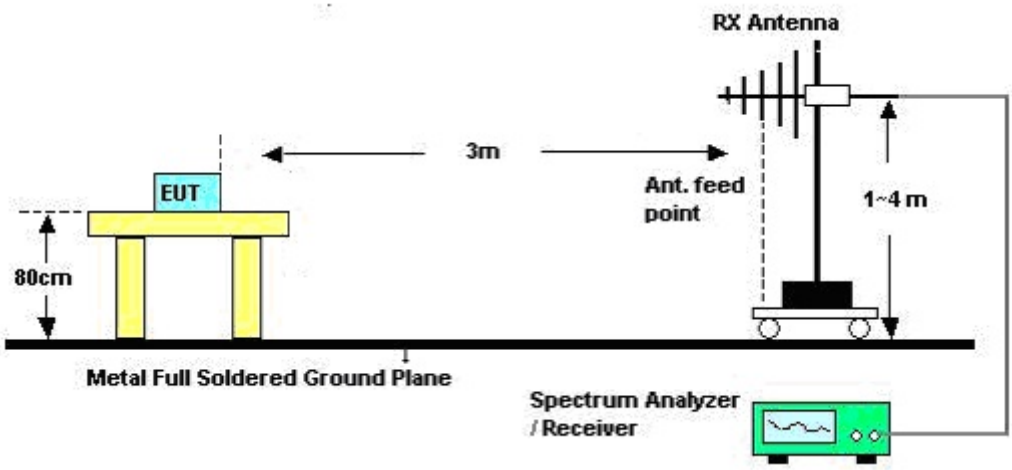
3.6.5 Test Setup

Emissions in Restricted Frequency Bands

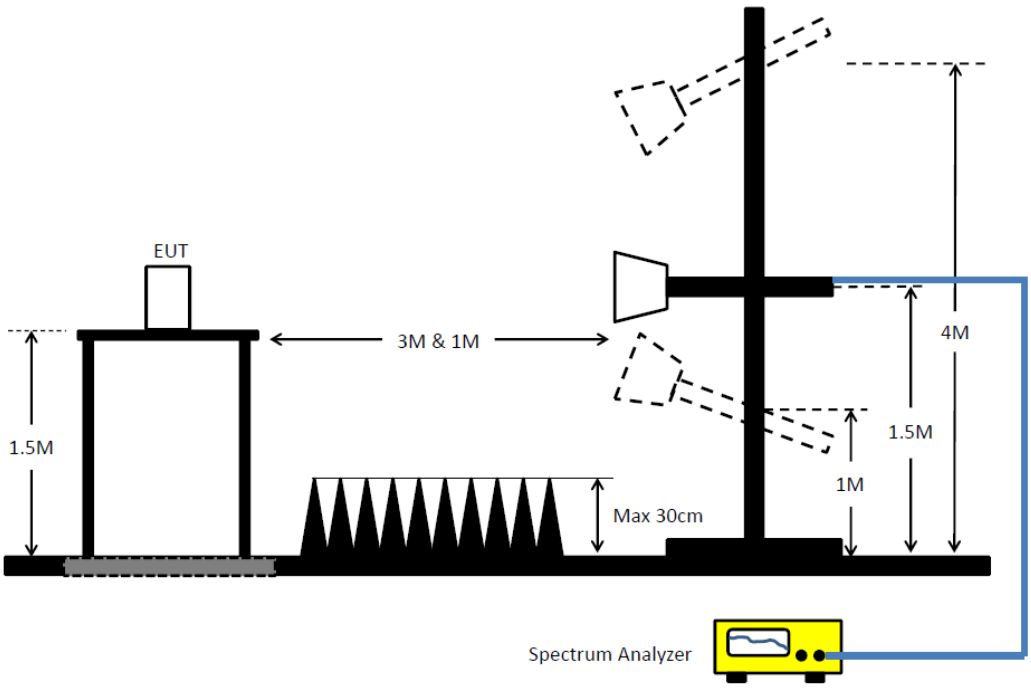
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	21/May/2021	20/May/2022
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127477	9kHz ~ 30MHz	15/Mar/2022	14/Mar/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	01/Apr/2022	31/Mar/2023
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	14/Feb/2022	13/Feb/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
SENSE-15247_FS	Sporton	V5.10.7.14	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	01/Aug/2021	31/Jul/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	12/Oct/2021	11/Oct/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	03/Nov/2021	02/Nov/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	14/Sep/2021	13/Sep/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1543	1GHz~18GHz	04/Jun/2021	03/Jun/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	04/May/2022	03/May/2023
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	04/May/2022	03/May/2023
RF Cable-R03m	HUBER+ SUHNER	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
RF Cable-R03m	HUBER+ SUHNER	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	15GHz~40GHz	12/May/2021	11/May/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-15247_FS	Sporton	v5.10.7.14	NA	NA	NA	NA

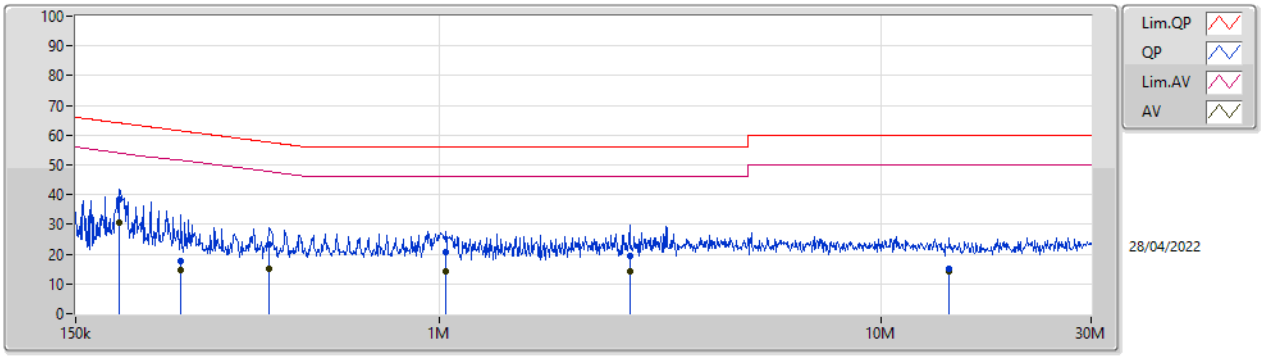
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	189.837k	31.49	54.05	-22.56	Neutral
Mode 2	Pass	QP	171.121k	48.97	64.91	-15.94	Line

Result

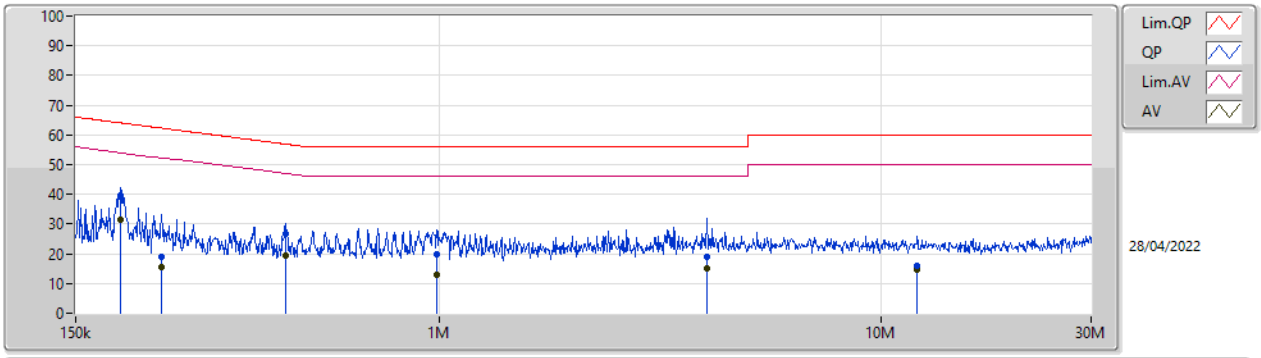
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	188.327k	38.50	64.11	-25.61	Line	-
Mode 1	Pass	AV	188.327k	30.62	54.11	-23.49	Line	-
Mode 1	Pass	QP	260.222k	17.86	61.43	-43.57	Line	-
Mode 1	Pass	AV	260.222k	14.50	51.43	-36.93	Line	-
Mode 1	Pass	QP	411.832k	23.49	57.61	-34.12	Line	-
Mode 1	Pass	AV	411.832k	15.18	47.61	-32.43	Line	-
Mode 1	Pass	QP	1.036M	20.52	56.00	-35.48	Line	-
Mode 1	Pass	AV	1.036M	14.07	46.00	-31.93	Line	-
Mode 1	Pass	QP	2.7M	19.22	56.00	-36.78	Line	-
Mode 1	Pass	AV	2.7M	14.21	46.00	-31.79	Line	-
Mode 1	Pass	QP	14.322M	15.20	60.00	-44.80	Line	-
Mode 1	Pass	AV	14.322M	14.07	50.00	-35.93	Line	-
Mode 1	Pass	QP	189.837k	39.44	64.05	-24.61	Neutral	-
Mode 1	Pass	AV	189.837k	31.49	54.05	-22.56	Neutral	-
Mode 1	Pass	QP	234.567k	19.15	62.29	-43.14	Neutral	-
Mode 1	Pass	AV	234.567k	15.31	52.29	-36.98	Neutral	-
Mode 1	Pass	QP	449.637k	26.89	56.88	-29.99	Neutral	-
Mode 1	Pass	AV	449.637k	19.42	46.88	-27.46	Neutral	-
Mode 1	Pass	QP	987.197k	19.63	56.00	-36.37	Neutral	-
Mode 1	Pass	AV	987.197k	13.14	46.00	-32.86	Neutral	-
Mode 1	Pass	QP	4.04M	19.14	56.00	-36.86	Neutral	-
Mode 1	Pass	AV	4.04M	15.08	46.00	-30.92	Neutral	-
Mode 1	Pass	QP	12.111M	15.98	60.00	-44.02	Neutral	-
Mode 1	Pass	AV	12.111M	14.74	50.00	-35.26	Neutral	-
Mode 2	Pass	QP	171.121k	48.97	64.91	-15.94	Line	-
Mode 2	Pass	AV	171.121k	36.58	54.91	-18.33	Line	-
Mode 2	Pass	QP	206.437k	39.64	63.34	-23.70	Line	-
Mode 2	Pass	AV	206.437k	25.88	53.34	-27.46	Line	-
Mode 2	Pass	QP	411.832k	29.13	57.61	-28.48	Line	-
Mode 2	Pass	AV	411.832k	20.50	47.61	-27.11	Line	-
Mode 2	Pass	QP	828.172k	25.45	56.00	-30.55	Line	-
Mode 2	Pass	AV	828.172k	17.67	46.00	-28.33	Line	-
Mode 2	Pass	QP	3.067M	22.10	56.00	-33.90	Line	-
Mode 2	Pass	AV	3.067M	15.73	46.00	-30.27	Line	-
Mode 2	Pass	QP	18.939M	22.78	60.00	-37.22	Line	-
Mode 2	Pass	AV	18.939M	16.71	50.00	-33.29	Line	-
Mode 2	Pass	QP	171.121k	48.52	64.91	-16.39	Neutral	-
Mode 2	Pass	AV	171.121k	36.40	54.91	-18.51	Neutral	-
Mode 2	Pass	QP	208.092k	40.57	63.28	-22.71	Neutral	-
Mode 2	Pass	AV	208.092k	27.20	53.28	-26.08	Neutral	-
Mode 2	Pass	QP	447.846k	32.53	56.92	-24.39	Neutral	-
Mode 2	Pass	AV	447.846k	23.07	46.92	-23.85	Neutral	-
Mode 2	Pass	QP	1.032M	21.65	56.00	-34.35	Neutral	-
Mode 2	Pass	AV	1.032M	15.63	46.00	-30.37	Neutral	-
Mode 2	Pass	QP	3.444M	21.93	56.00	-34.07	Neutral	-
Mode 2	Pass	AV	3.444M	15.50	46.00	-30.50	Neutral	-
Mode 2	Pass	QP	23.215M	17.55	60.00	-42.45	Neutral	-
Mode 2	Pass	AV	23.215M	15.47	50.00	-34.53	Neutral	-

Conducted Emissions at Powerline_Mode 1



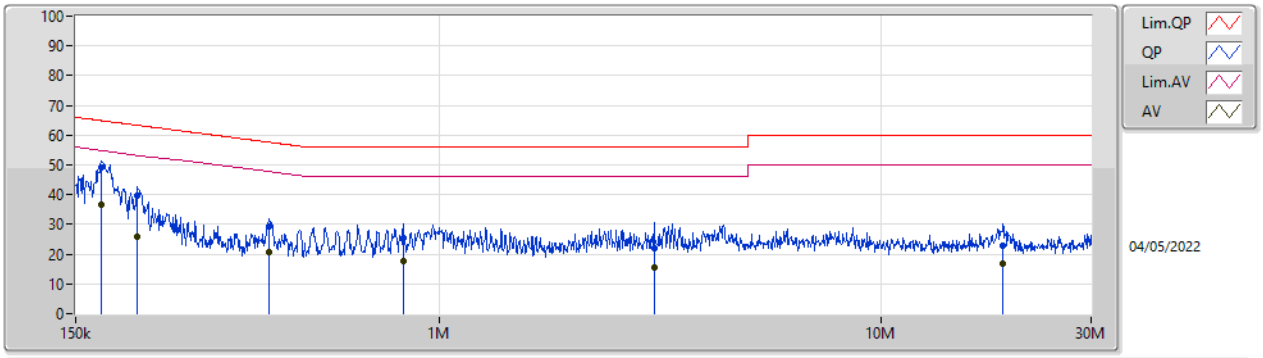
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	188.327k	38.50	64.11	-25.61	19.63	Line	-	18.87	9.69	0.03	9.91
AV	188.327k	30.62	54.11	-23.49	19.63	Line	-	10.99	9.69	0.03	9.91
QP	260.222k	17.86	61.43	-43.57	19.63	Line	-	-1.77	9.69	0.03	9.91
AV	260.222k	14.50	51.43	-36.93	19.63	Line	-	-5.13	9.69	0.03	9.91
QP	411.832k	23.49	57.61	-34.12	19.63	Line	-	3.86	9.68	0.04	9.91
AV	411.832k	15.18	47.61	-32.43	19.63	Line	-	-4.45	9.68	0.04	9.91
QP	1.036M	20.52	56.00	-35.48	19.65	Line	-	0.87	9.68	0.05	9.92
AV	1.036M	14.07	46.00	-31.93	19.65	Line	-	-5.58	9.68	0.05	9.92
QP	2.7M	19.22	56.00	-36.78	19.72	Line	-	-0.50	9.70	0.10	9.92
AV	2.7M	14.21	46.00	-31.79	19.72	Line	-	-5.51	9.70	0.10	9.92
QP	14.322M	15.20	60.00	-44.80	19.96	Line	-	-4.76	9.80	0.23	9.93
AV	14.322M	14.07	50.00	-35.93	19.96	Line	-	-5.89	9.80	0.23	9.93

Conducted Emissions at Powerline_Mode 1



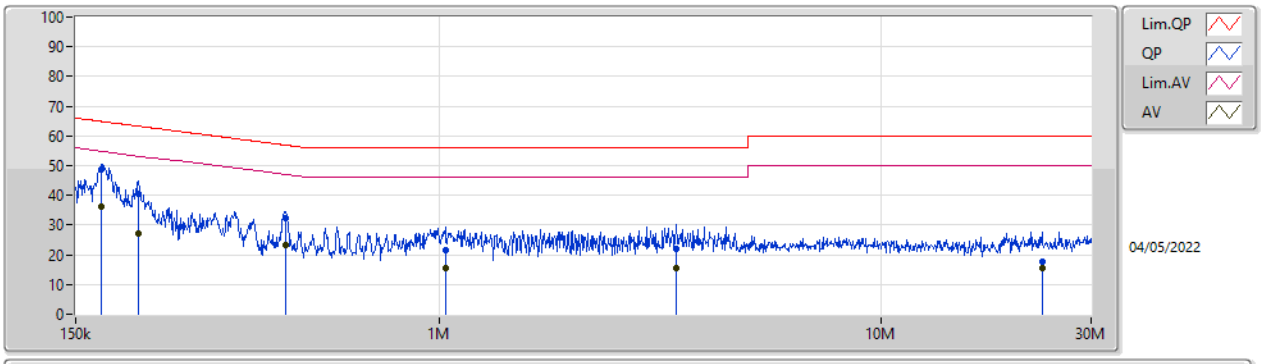
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	189.837k	39.44	64.05	-24.61	19.66	Neutral	-	19.78	9.72	0.03	9.91
AV	189.837k	31.49	54.05	-22.56	19.66	Neutral	-	11.83	9.72	0.03	9.91
QP	234.567k	19.15	62.29	-43.14	19.66	Neutral	-	-0.51	9.72	0.03	9.91
AV	234.567k	15.31	52.29	-36.98	19.66	Neutral	-	-4.35	9.72	0.03	9.91
QP	449.637k	26.89	56.88	-29.99	19.67	Neutral	-	7.22	9.72	0.04	9.91
AV	449.637k	19.42	46.88	-27.46	19.67	Neutral	-	-0.25	9.72	0.04	9.91
QP	987.197k	19.63	56.00	-36.37	19.70	Neutral	-	-0.07	9.73	0.05	9.92
AV	987.197k	13.14	46.00	-32.86	19.70	Neutral	-	-6.56	9.73	0.05	9.92
QP	4.04M	19.14	56.00	-36.86	19.81	Neutral	-	-0.67	9.76	0.13	9.92
AV	4.04M	15.08	46.00	-30.92	19.81	Neutral	-	-4.73	9.76	0.13	9.92
QP	12.111M	15.98	60.00	-44.02	20.06	Neutral	-	-4.08	9.92	0.21	9.93
AV	12.111M	14.74	50.00	-35.26	20.06	Neutral	-	-5.32	9.92	0.21	9.93

Conducted Emissions at Powerline_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	171.121k	48.97	64.91	-15.94	19.63	Line	-	29.34	9.69	0.03	9.91
AV	171.121k	36.58	54.91	-18.33	19.63	Line	-	16.95	9.69	0.03	9.91
QP	206.437k	39.64	63.34	-23.70	19.63	Line	-	20.01	9.69	0.03	9.91
AV	206.437k	25.88	53.34	-27.46	19.63	Line	-	6.25	9.69	0.03	9.91
QP	411.832k	29.13	57.61	-28.48	19.63	Line	-	9.50	9.68	0.04	9.91
AV	411.832k	20.50	47.61	-27.11	19.63	Line	-	0.87	9.68	0.04	9.91
QP	828.172k	25.45	56.00	-30.55	19.65	Line	-	5.80	9.68	0.05	9.92
AV	828.172k	17.67	46.00	-28.33	19.65	Line	-	-1.98	9.68	0.05	9.92
QP	3.067M	22.10	56.00	-33.90	19.74	Line	-	2.36	9.71	0.11	9.92
AV	3.067M	15.73	46.00	-30.27	19.74	Line	-	-4.01	9.71	0.11	9.92
QP	18.939M	22.78	60.00	-37.22	19.98	Line	-	2.80	9.79	0.26	9.93
AV	18.939M	16.71	50.00	-33.29	19.98	Line	-	-3.27	9.79	0.26	9.93

Conducted Emissions at Powerline_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	171.121k	48.52	64.91	-16.39	19.67	Neutral	-	28.85	9.73	0.03	9.91
AV	171.121k	36.40	54.91	-18.51	19.67	Neutral	-	16.73	9.73	0.03	9.91
QP	208.092k	40.57	63.28	-22.71	19.66	Neutral	-	20.91	9.72	0.03	9.91
AV	208.092k	27.20	53.28	-26.08	19.66	Neutral	-	7.54	9.72	0.03	9.91
QP	447.846k	32.53	56.92	-24.39	19.67	Neutral	-	12.86	9.72	0.04	9.91
AV	447.846k	23.07	46.92	-23.85	19.67	Neutral	-	3.40	9.72	0.04	9.91
QP	1.032M	21.65	56.00	-34.35	19.70	Neutral	-	1.95	9.73	0.05	9.92
AV	1.032M	15.63	46.00	-30.37	19.70	Neutral	-	-4.07	9.73	0.05	9.92
QP	3.444M	21.93	56.00	-34.07	19.80	Neutral	-	2.13	9.76	0.12	9.92
AV	3.444M	15.50	46.00	-30.50	19.80	Neutral	-	-4.30	9.76	0.12	9.92
QP	23.215M	17.55	60.00	-42.45	20.28	Neutral	-	-2.73	10.05	0.30	9.93
AV	23.215M	15.47	50.00	-34.53	20.28	Neutral	-	-4.81	10.05	0.30	9.93

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)	668.75k	1.022M	1M02F1D	662.5k	1.016M
BT-LE(2Mbps)	1.143M	2.004M	2M00F1D	1.138M	1.999M
BT-LE(125kbps)	665k	1.047M	1M05F1D	622.5k	1.019M
BT-LE(500kbps)	660k	1.014M	1M01F1D	660k	1.009M

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

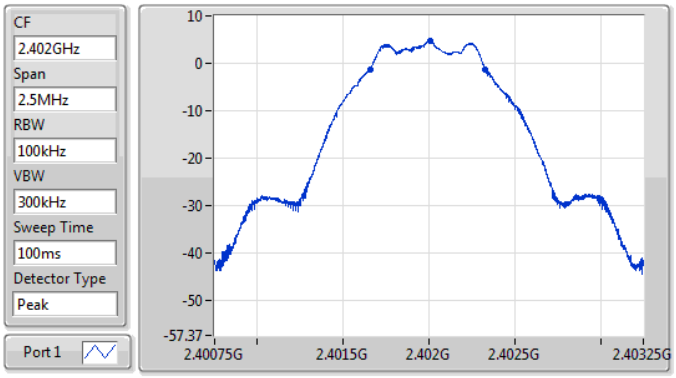
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	667.5k	1.016M
2440MHz	Pass	500k	668.75k	1.022M
2480MHz	Pass	500k	662.5k	1.019M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.14M	2.001M
2440MHz	Pass	500k	1.143M	1.999M
2480MHz	Pass	500k	1.138M	2.004M
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	622.5k	1.044M
2440MHz	Pass	500k	623.75k	1.047M
2480MHz	Pass	500k	665k	1.019M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	660k	1.009M
2440MHz	Pass	500k	660k	1.014M
2480MHz	Pass	500k	660k	1.013M

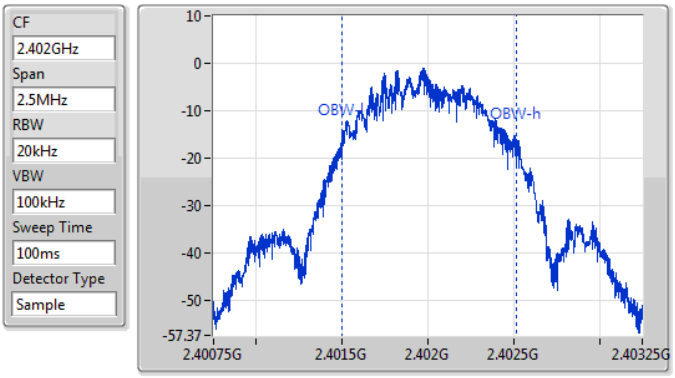
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-LE(1Mbps) EBW-DTS

2402MHz

08/07/2022



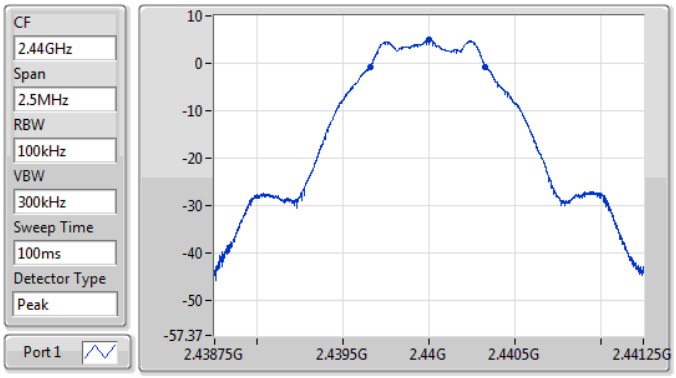


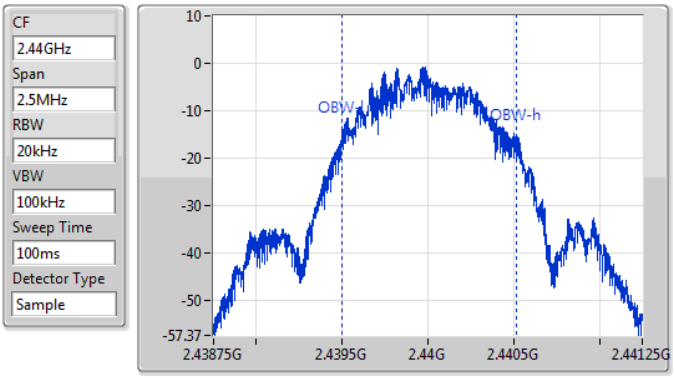
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
667.5k	2.401661G	2.402329G	1.016M	2.401498G	2.402513G	500k	1

BT-LE(1Mbps) EBW-DTS

2440MHz

08/07/2022



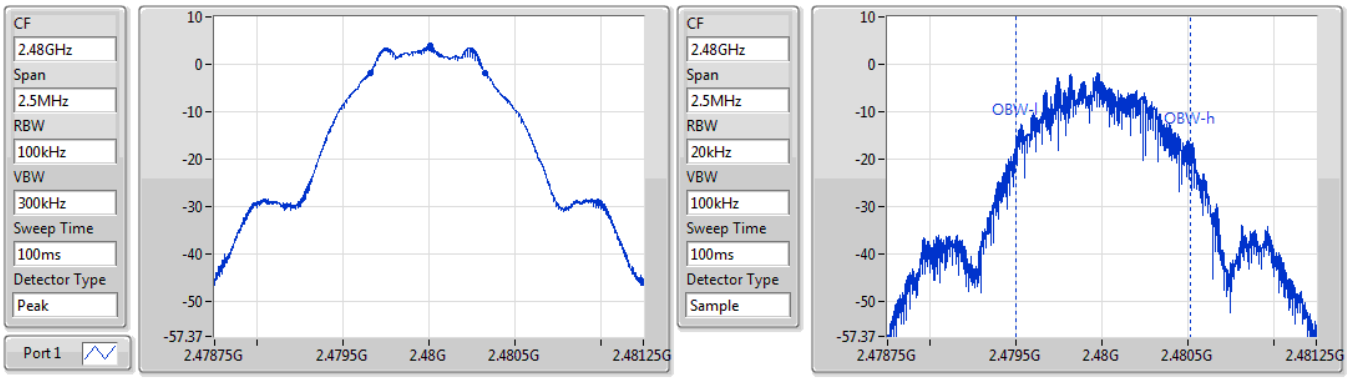


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
668.75k	2.43966G	2.440329G	1.022M	2.439495G	2.440517G	500k	1

BT-LE(1Mbps) EBW-DTS

2480MHz

08/07/2022

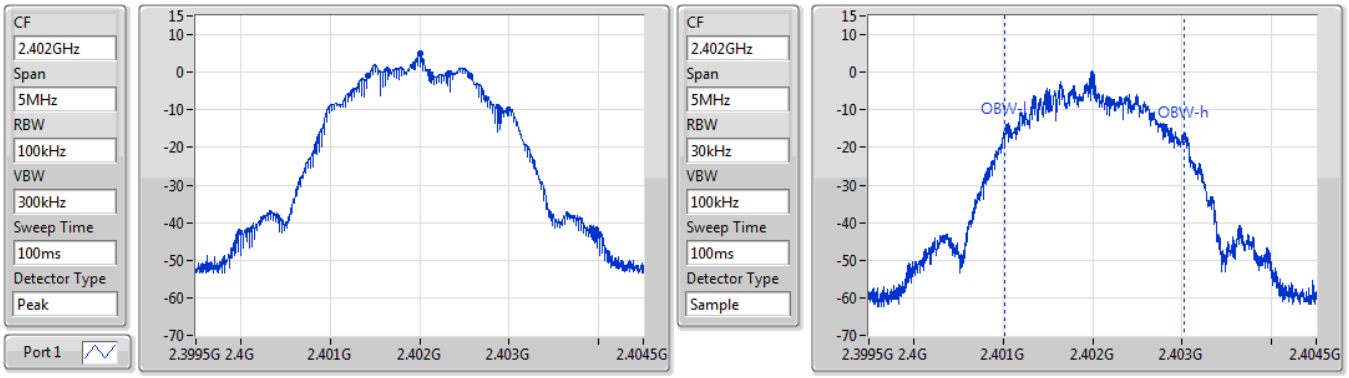


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
662.5k	2.479661G	2.480324G	1.019M	2.479499G	2.480518G	500k	1

BT-LE(2Mbps) EBW-DTS

2402MHz

08/07/2022

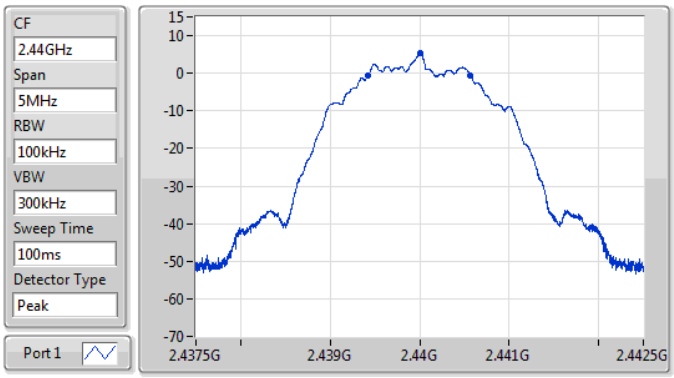


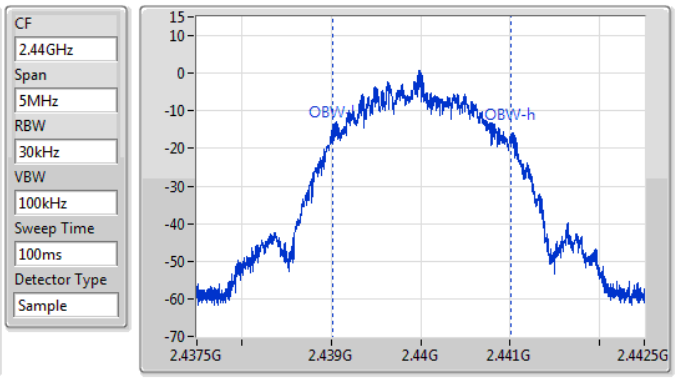
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.14M	2.401428G	2.402568G	2.001M	2.401015G	2.403017G	500k	1

BT-LE(2Mbps) EBW-DTS

2440MHz

08/07/2022



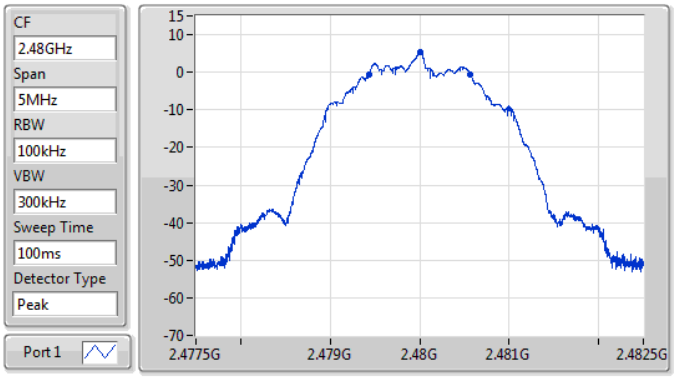


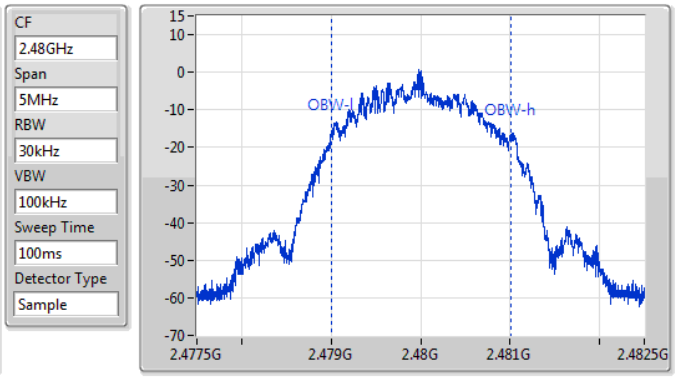
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.143M	2.439428G	2.44057G	1.999M	2.439013G	2.441012G	500k	1

BT-LE(2Mbps) EBW-DTS

2480MHz

08/07/2022



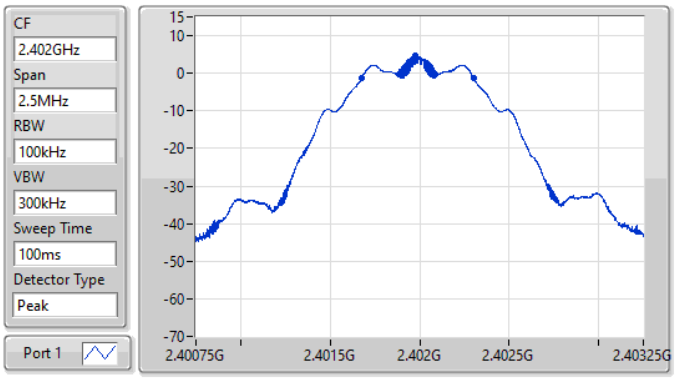


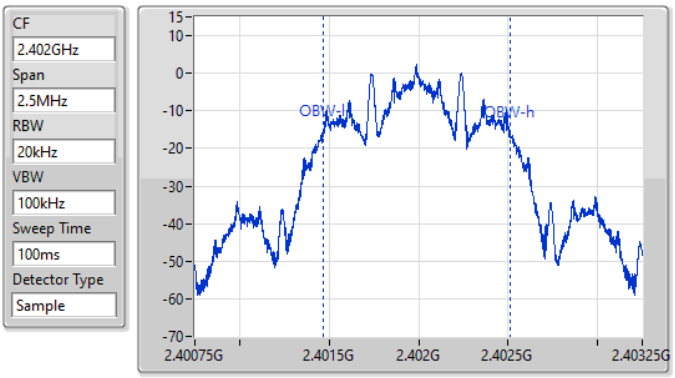
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.138M	2.47943G	2.480568G	2.004M	2.47901G	2.481014G	500k	1

BT-LE(125kbps) EBW-DTS

2402MHz

30/08/2022



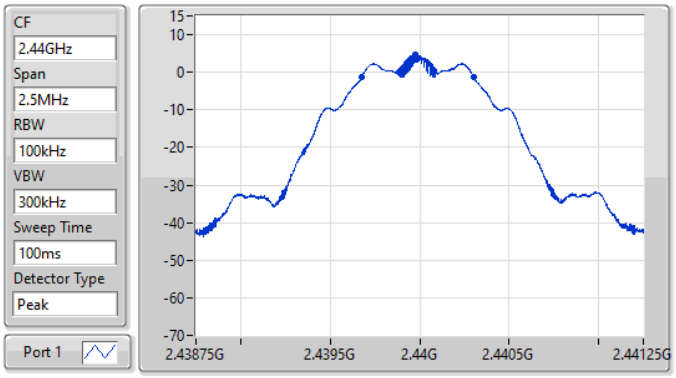


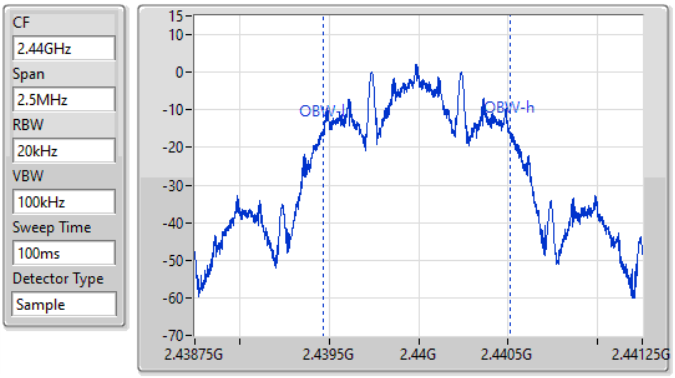
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
622.5k	2.401678G	2.4023G	1.044M	2.401467G	2.402511G	500k	1

BT-LE(125kbps) EBW-DTS

2440MHz

30/08/2022



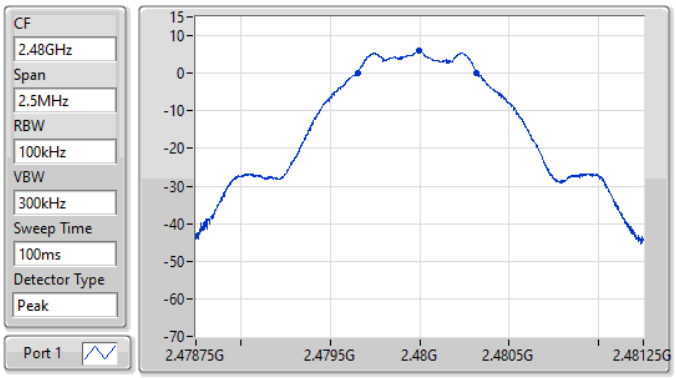


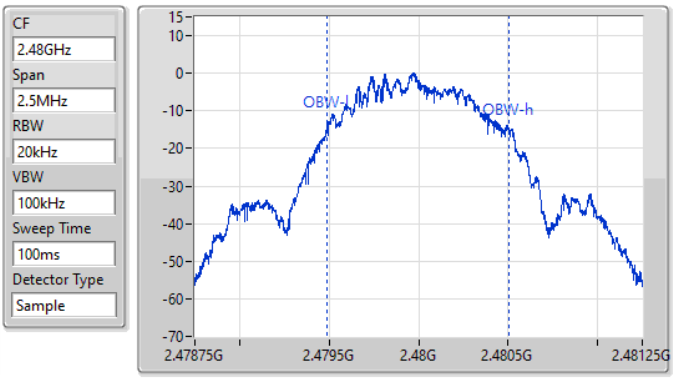
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
623.75k	2.439676G	2.4403G	1.047M	2.439464G	2.440511G	500k	1

BT-LE(125kbps) EBW-DTS

2480MHz

30/08/2022



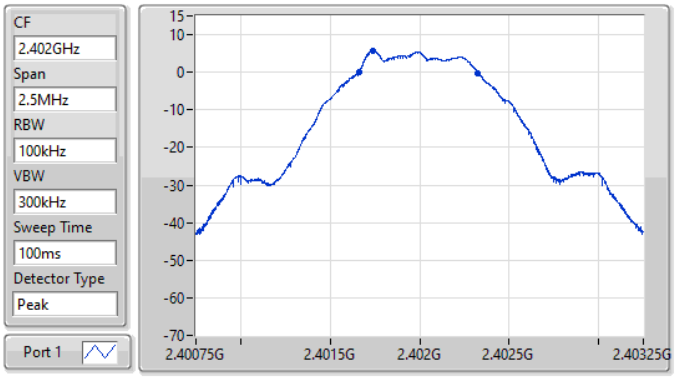


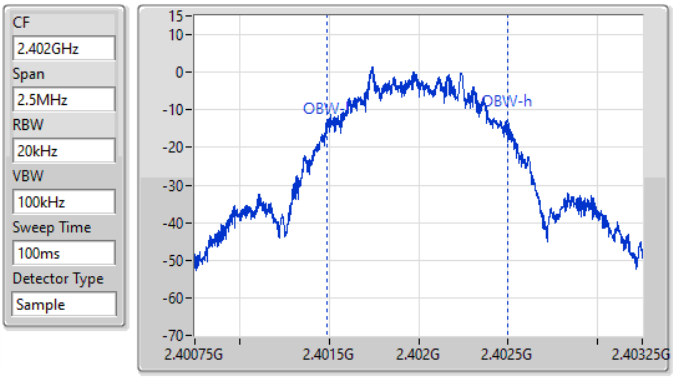
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
665k	2.479653G	2.480318G	1.019M	2.479488G	2.480507G	500k	1

BT-LE(500kbps) EBW-DTS

2402MHz

30/08/2022



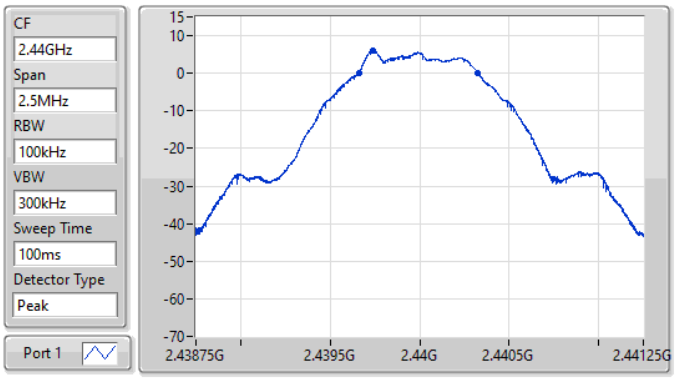


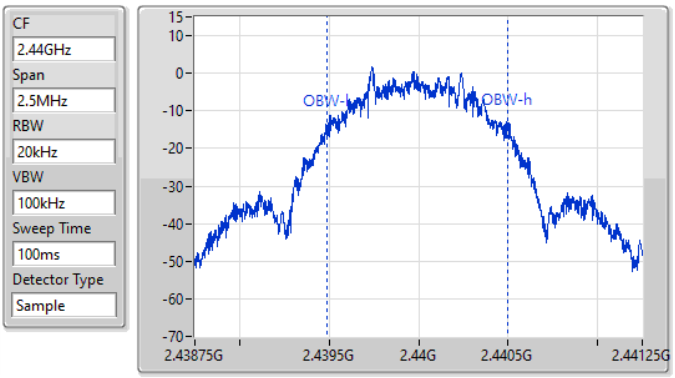
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
660k	2.401665G	2.402325G	1.009M	2.401487G	2.402496G	500k	1

BT-LE(500kbps) EBW-DTS

2440MHz

30/08/2022



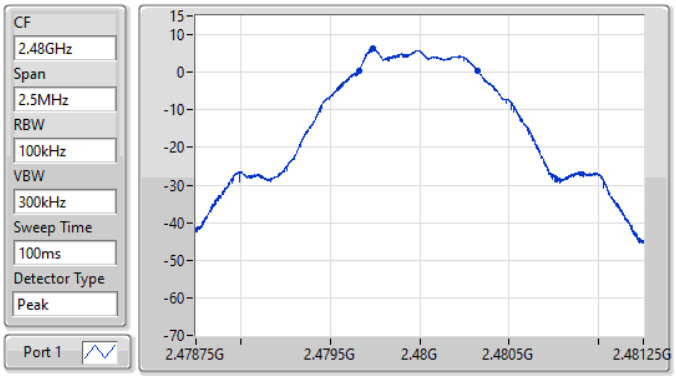


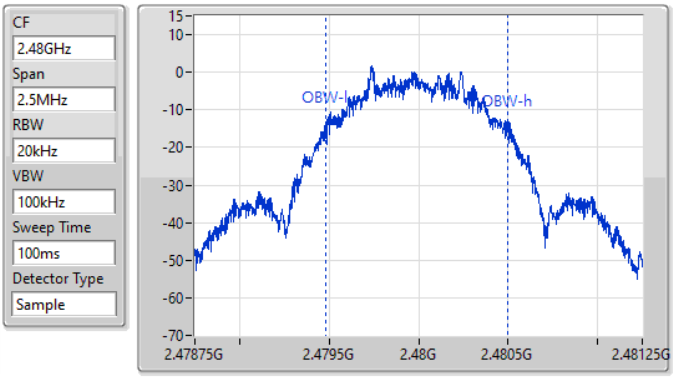
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
660k	2.439665G	2.440325G	1.014M	2.439485G	2.4405G	500k	1

BT-LE(500kbps) EBW-DTS

2480MHz

30/08/2022





6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
660k	2.479664G	2.480324G	1.013M	2.479483G	2.480496G	500k	1

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	5.75	0.00376
BT-LE(2Mbps)	5.48	0.00353
BT-LE(125kbps)	5.73	0.00374
BT-LE(500kbps)	5.97	0.00395

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.64	5.18	30.00
2440MHz	Pass	1.64	5.33	30.00
2480MHz	Pass	1.64	5.75	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.64	4.91	30.00
2440MHz	Pass	1.64	5.03	30.00
2480MHz	Pass	1.64	5.48	30.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.64	5.70	30.00
2440MHz	Pass	1.64	5.69	30.00
2480MHz	Pass	1.64	5.73	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.64	5.63	30.00
2440MHz	Pass	1.64	5.70	30.00
2480MHz	Pass	1.64	5.97	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-9.34
BT-LE(2Mbps)	-12.26
BT-LE(125kbps)	0.83
BT-LE(500kbps)	0.54

RBW = 3kHz;

Result

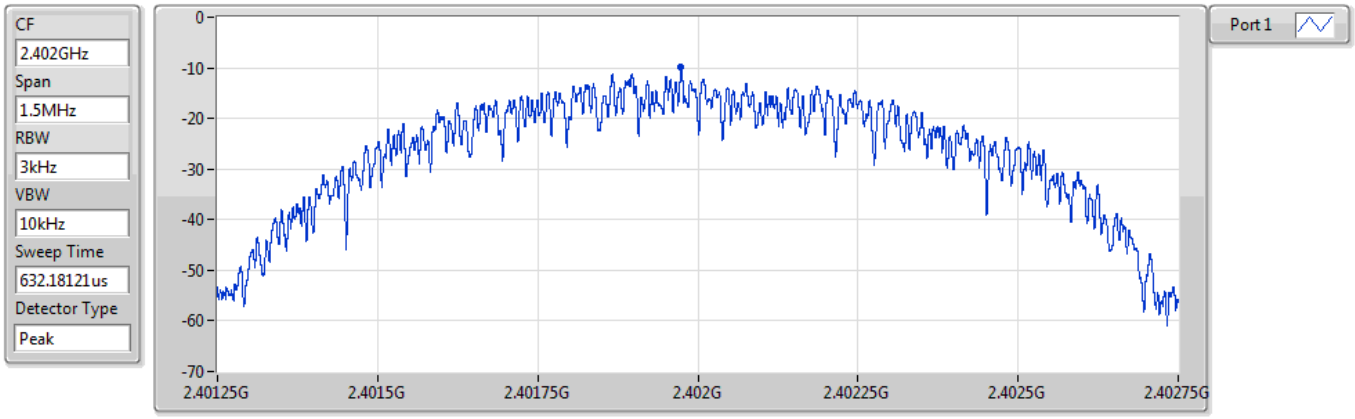
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.64	-9.90	8.00
2440MHz	Pass	1.64	-10.92	8.00
2480MHz	Pass	1.64	-9.34	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	1.64	-12.73	8.00
2440MHz	Pass	1.64	-12.27	8.00
2480MHz	Pass	1.64	-12.26	8.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	1.64	0.05	8.00
2440MHz	Pass	1.64	0.40	8.00
2480MHz	Pass	1.64	0.83	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	1.64	0.07	8.00
2440MHz	Pass	1.64	0.51	8.00
2480MHz	Pass	1.64	0.54	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;

BT-LE(1Mbps) PSD

2402MHz

08/07/2022

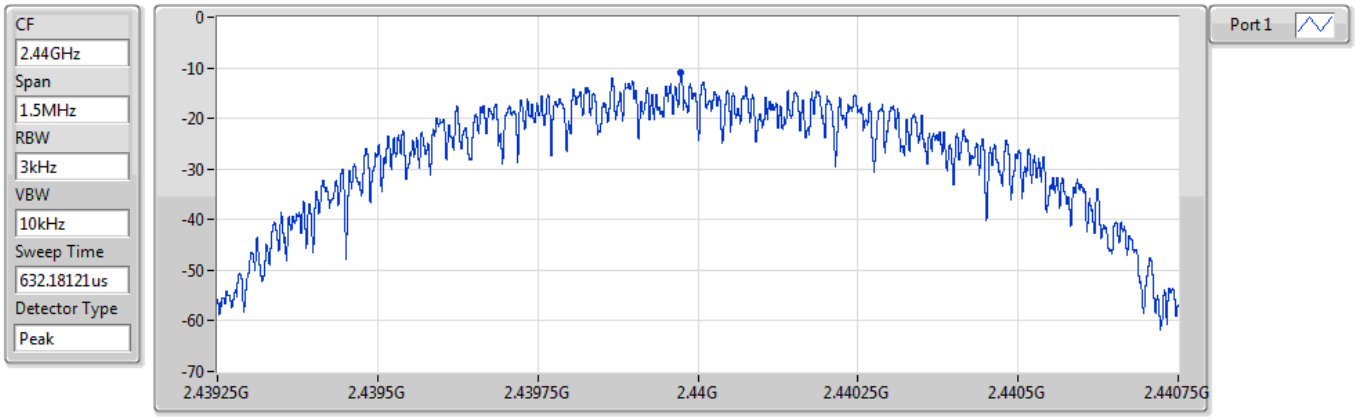


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.90	-9.90	-9.90

BT-LE(1Mbps) PSD

2440MHz

08/07/2022

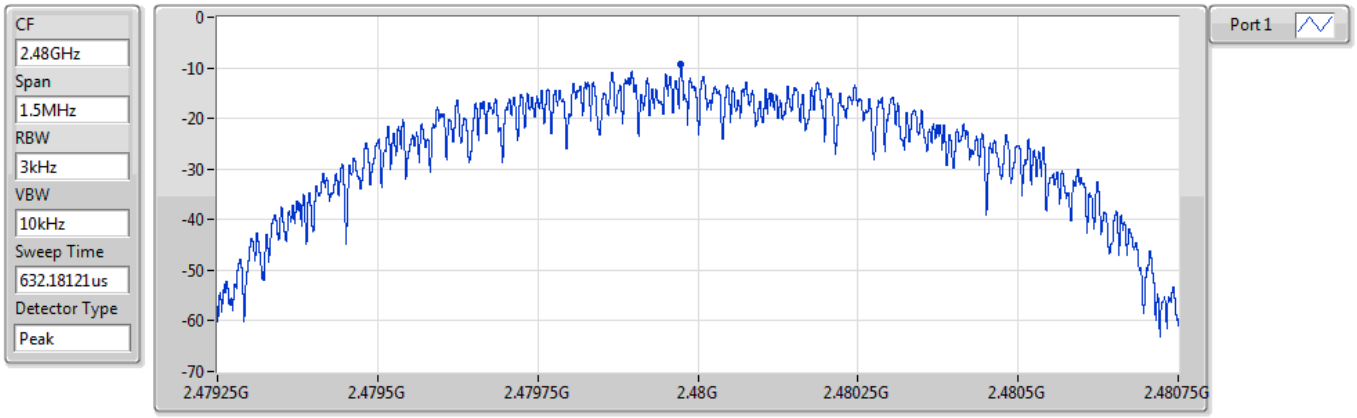


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.92	-10.92	-10.92

BT-LE(1Mbps) PSD

2480MHz

08/07/2022

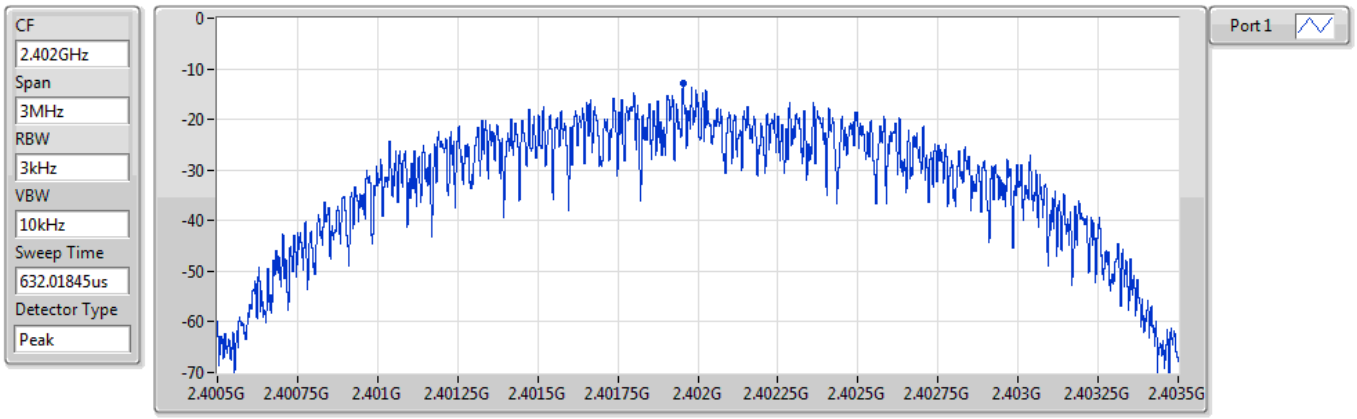


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.34	-9.34	-9.34

BT-LE(2Mbps) PSD

2402MHz

08/07/2022

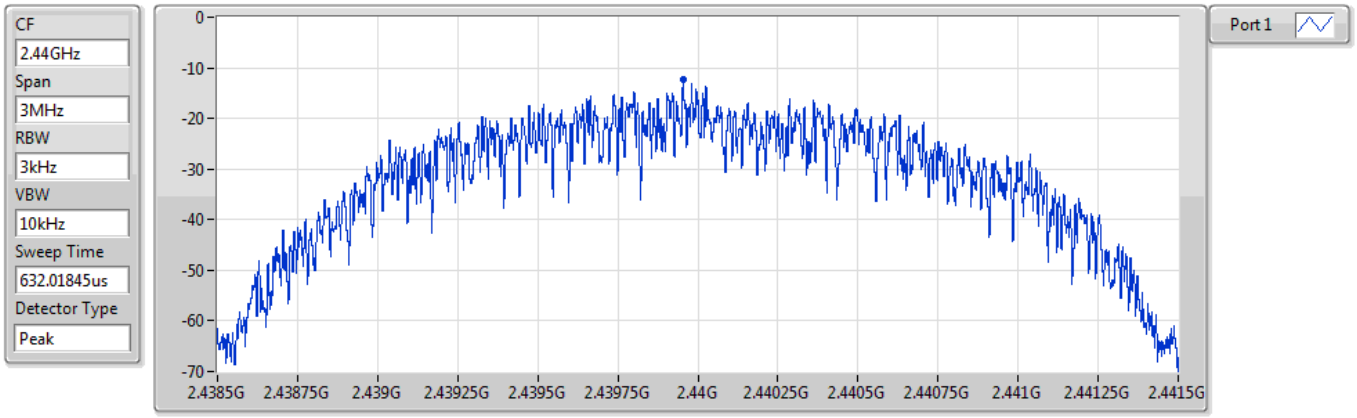


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.73	-12.73	-12.73

BT-LE(2Mbps) PSD

2440MHz

08/07/2022

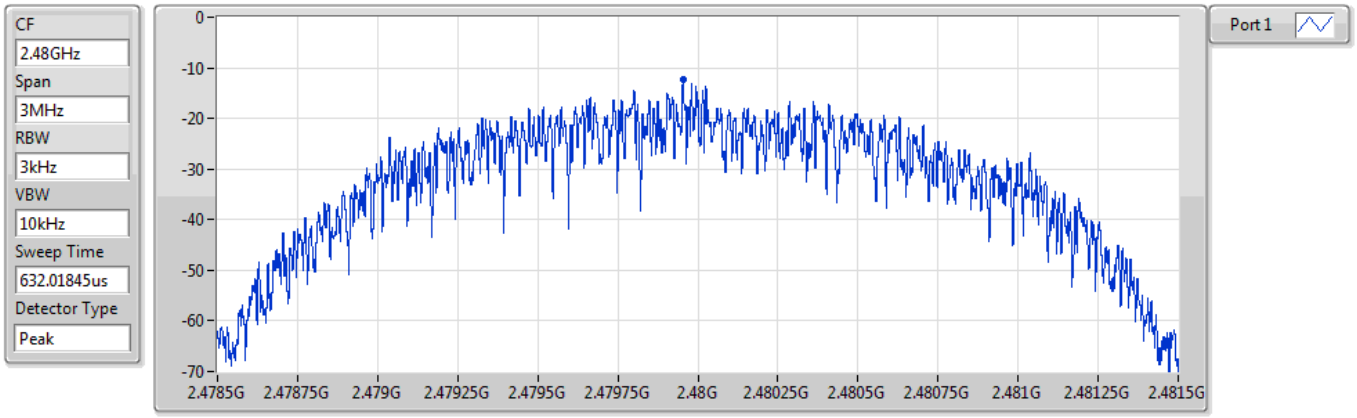


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.27	-12.27	-12.27

BT-LE(2Mbps) PSD

2480MHz

08/07/2022

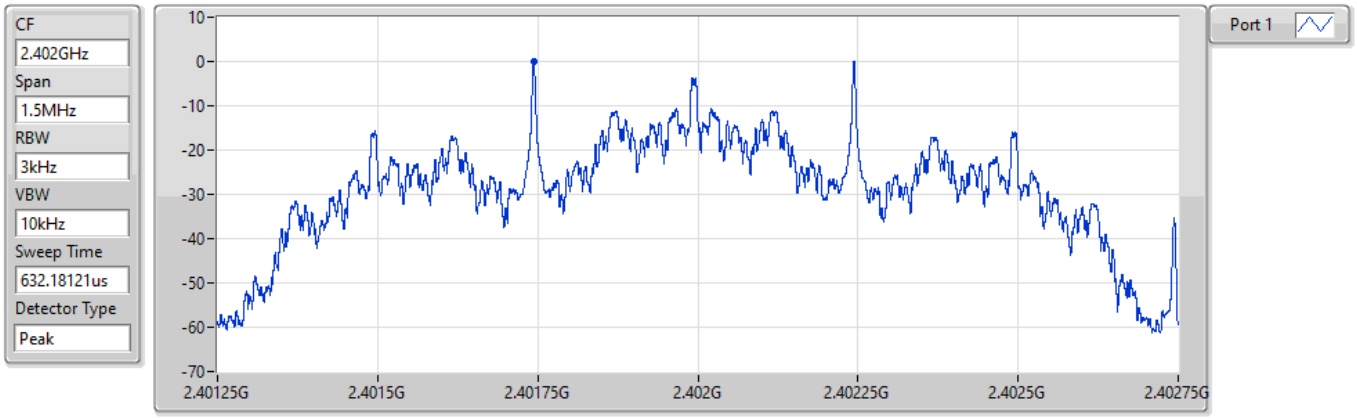


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.26	-12.26	-12.26

BT-LE(125kbps) PSD

2402MHz

31/08/2022

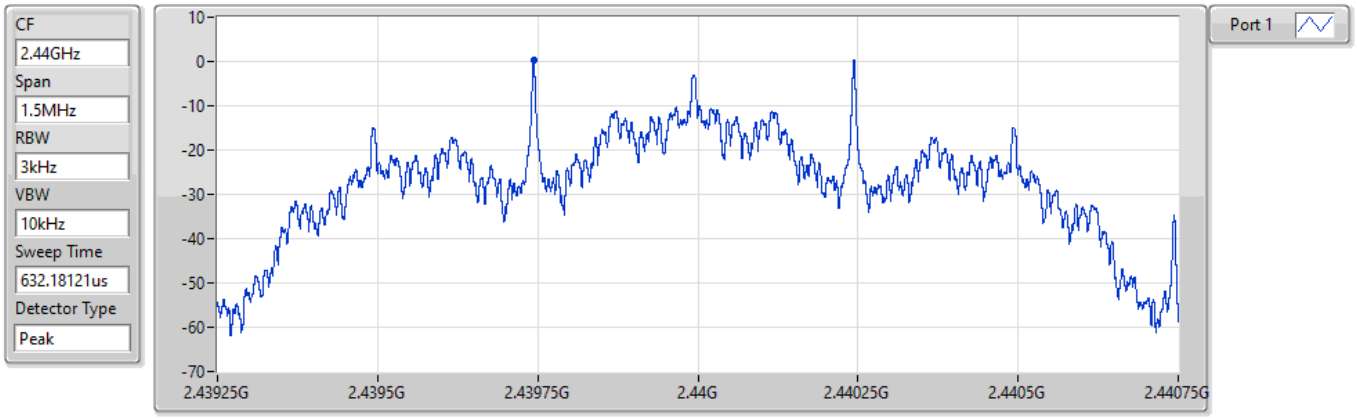


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.05	0.05	0.05

BT-LE(125kbps) PSD

2440MHz

31/08/2022

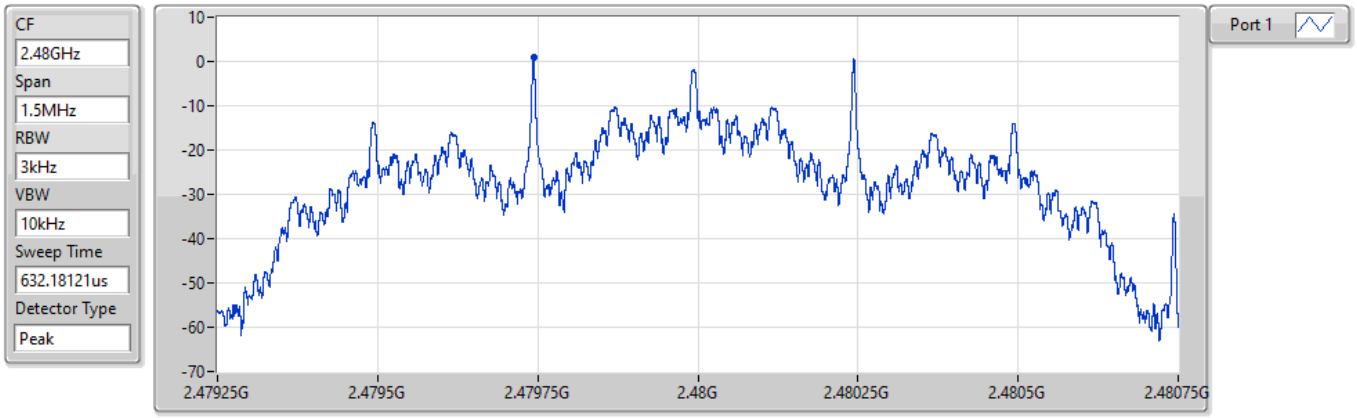


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.40	0.40	0.40

BT-LE(125kbps) PSD

2480MHz

31/08/2022

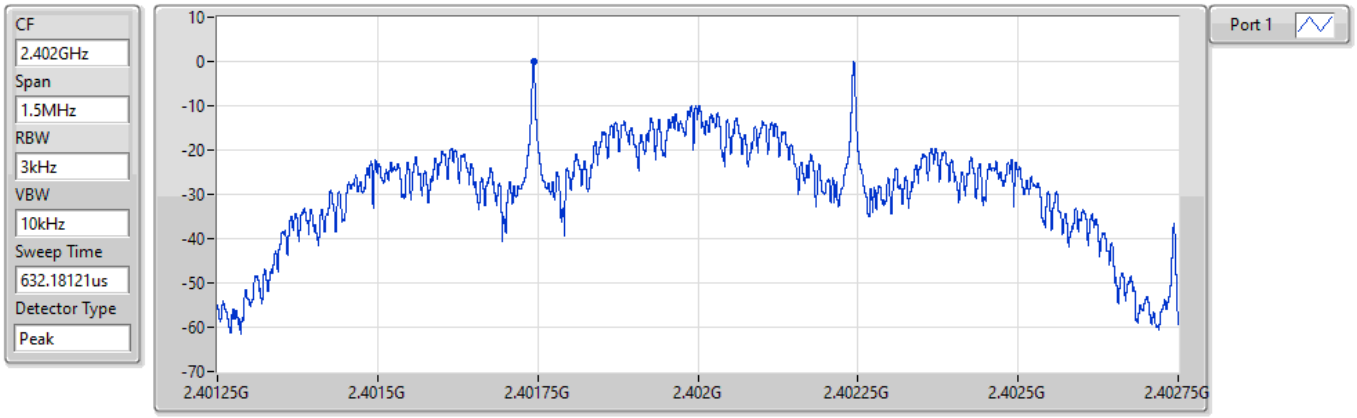


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.83	0.83	0.83

BT-LE(500kbps) PSD

2402MHz

31/08/2022

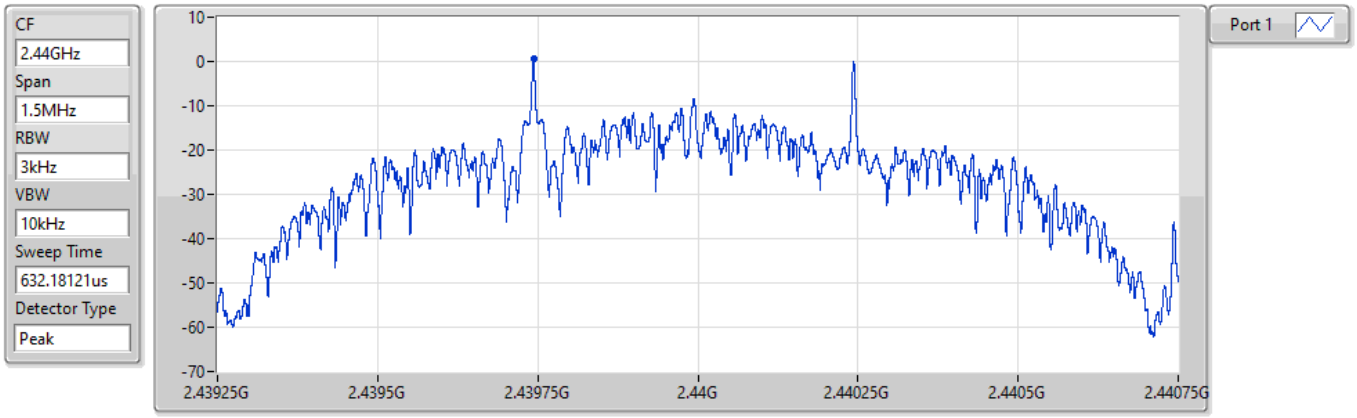


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.07	0.07	0.07

BT-LE(500kbps) PSD

2440MHz

31/08/2022

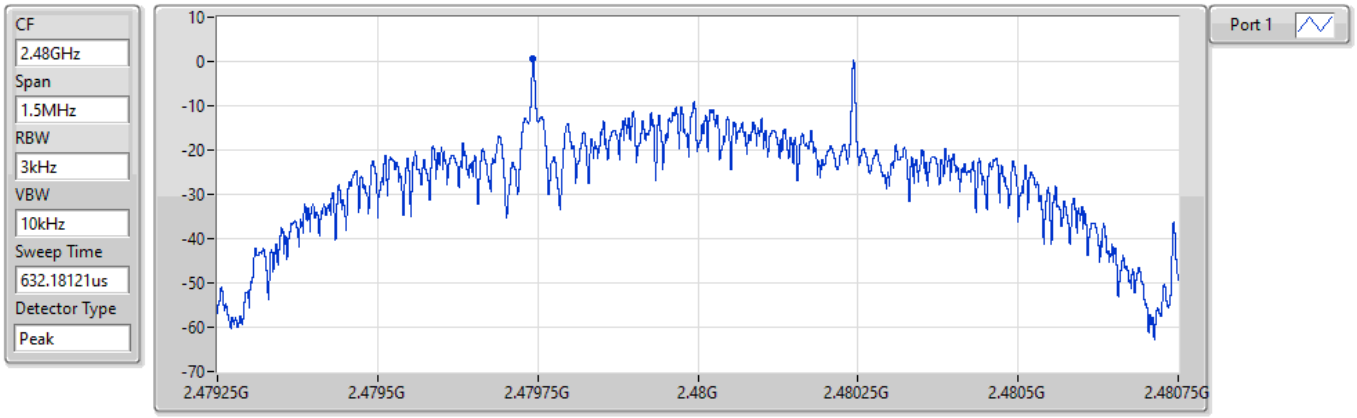


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.51	0.51	0.51

BT-LE(500kbps) PSD

2480MHz

31/08/2022



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.54	0.54	0.54

Summary

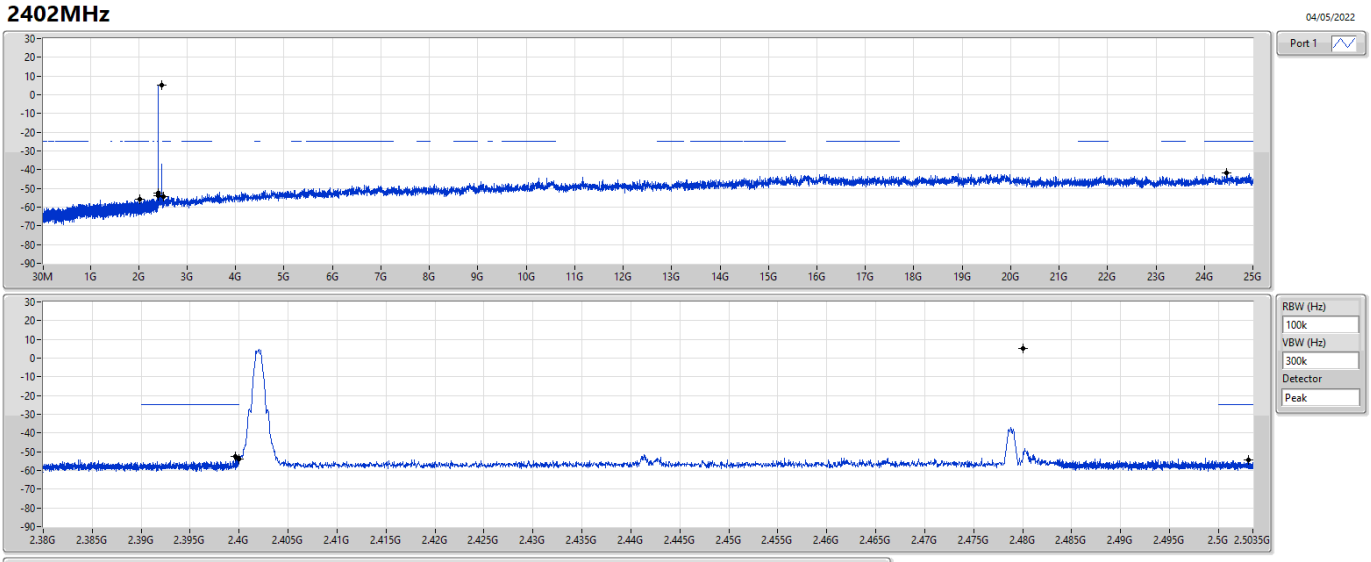
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.48003G	5.35	-24.65	2.02779G	-55.63	2.39958G	-52.57	2.4G	-54.03	2.50302G	-54.44	24.45727G	-41.63	1
BT-LE(2Mbps)	Pass	2.48003G	5.43	-24.57	1.80249G	-55.54	2.39999G	-38.38	2.4G	-38.49	2.50222G	-54.66	17.17684G	-42.23	1
BT-LE(125kbps)	Pass	2.47999G	4.66	-25.34	2.13913G	-53.37	2.39692G	-52.01	2.4G	-51.47	2.5027G	-50.14	24.73567G	-41.04	1
BT-LE(500kbps)	Pass	2.47983G	6.24	-23.76	2.08273G	-54.08	2.39128G	-51.06	2.4G	-50.88	2.50206G	-51.63	24.64849G	-40.81	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	2.48003G	5.35	-24.65	2.02779G	-55.63	2.39958G	-52.57	2.4G	-54.03	2.50302G	-54.44	24.45727G	-41.63	1
2440MHz	Pass	2.48003G	5.35	-24.65	2.03984G	-55.73	2.39851G	-54.56	2.4G	-57.28	2.5035G	-54.29	16.76066G	-42.71	1
2480MHz	Pass	2.48003G	5.35	-24.65	1.99313G	-55.81	2.39904G	-54.90	2.4G	-56.92	2.50068G	-54.19	15.15216G	-42.14	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.48003G	5.43	-24.57	1.80249G	-55.54	2.39999G	-38.38	2.4G	-38.49	2.50222G	-54.66	17.17684G	-42.23	1
2440MHz	Pass	2.48003G	5.43	-24.57	2.13443G	-55.41	2.39564G	-54.56	2.4G	-57.76	2.50247G	-54.04	24.50226G	-42.77	1
2480MHz	Pass	2.48003G	5.43	-24.57	2.17408G	-55.86	2.39842G	-54.70	2.4G	-56.64	2.50164G	-54.05	24.38978G	-42.58	1
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.47999G	4.66	-25.34	2.13913G	-53.37	2.39692G	-52.01	2.4G	-51.47	2.5027G	-50.14	24.73567G	-41.04	1
2440MHz	Pass	2.47999G	4.66	-25.34	944.15M	-53.45	2.39844G	-51.49	2.4G	-54.19	2.5003G	-51.29	17.10092G	-40.09	1
2480MHz	Pass	2.47999G	4.66	-25.34	2.14383G	-52.28	2.39416G	-52.34	2.4G	-55.08	2.50254G	-50.39	23.31839G	-40.56	1
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.47983G	6.24	-23.76	2.08273G	-54.08	2.39128G	-51.06	2.4G	-50.88	2.50206G	-51.63	24.64849G	-40.81	1
2440MHz	Pass	2.47983G	6.24	-23.76	2.11563G	-52.59	2.39192G	-51.96	2.4G	-54.78	2.50078G	-51.42	23.37463G	-41.23	1
2480MHz	Pass	2.47983G	6.24	-23.76	951.2M	-52.67	2.3926G	-51.69	2.4G	-53.31	2.50126G	-50.93	24.65693G	-40.71	1

BT-LE(1Mbps) **CSENdB-DTS**

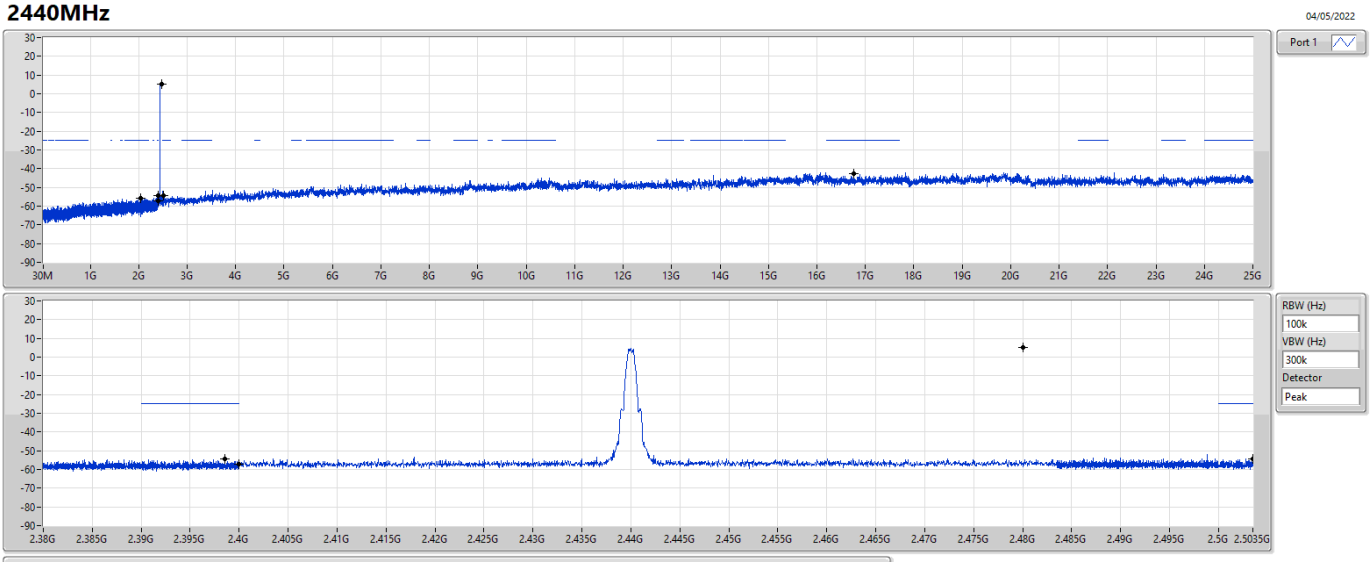
2402MHz



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
2.48003G	5.35	-24.65	2.02779G	-55.63	2.39958G	-52.57	2.4G	-54.03	2.50302G	-54.44	24.45727G	-41.63	1

BT-LE(1Mbps) **CSENdB-DTS**

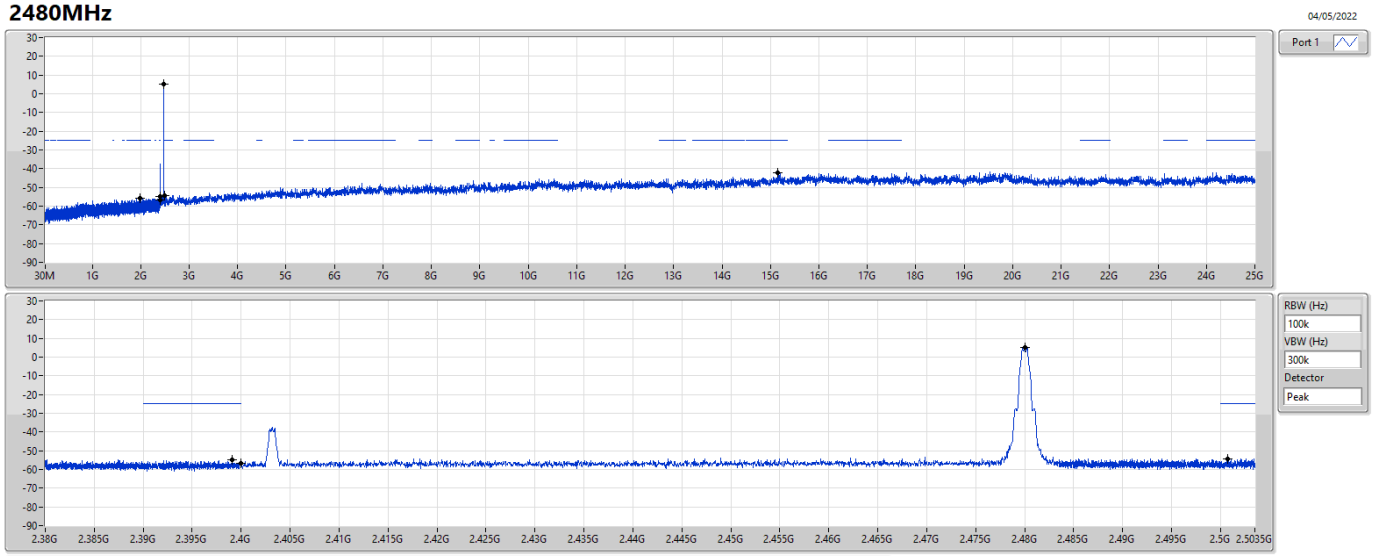
2440MHz



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
2.48003G	5.35	-24.65	2.03984G	-55.73	2.39851G	-54.56	2.4G	-57.28	2.5035G	-54.29	16.76066G	-42.71	1

BT-LE(1Mbps) **CSENdB-DTS**

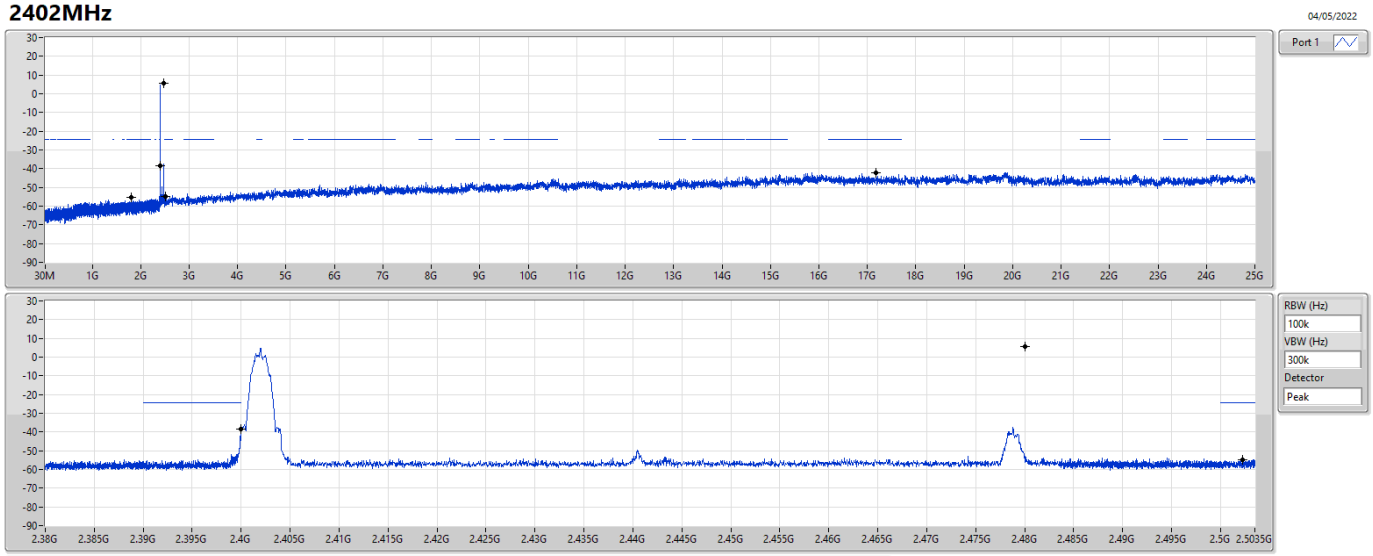
2480MHz



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
2.48003G	5.35	-24.65	1.99313G	-55.81	2.39904G	-54.90	2.4G	-56.92	2.50068G	-54.19	15.15216G	-42.14	1

BT-LE(2Mbps) **CSENdB-DTS**

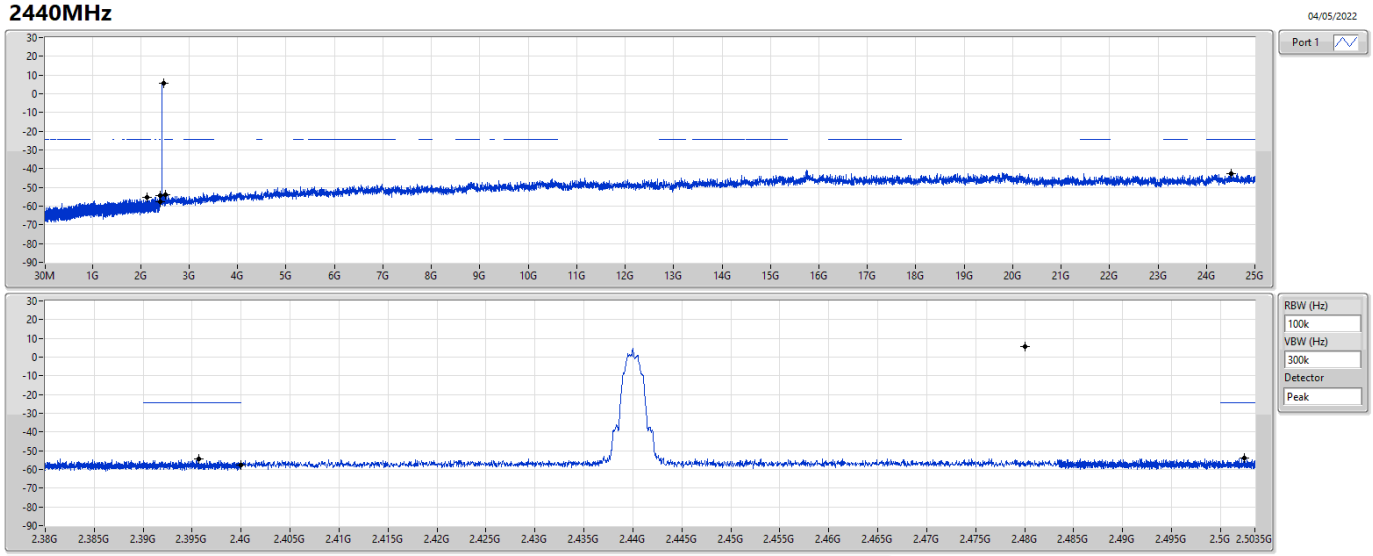
2402MHz



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
2.48003G	5.43	-24.57	1.80249G	-55.54	2.39999G	-38.38	2.4G	-38.49	2.50222G	-54.66	17.17684G	-42.23	1

BT-LE(2Mbps) **CSENdB-DTS**

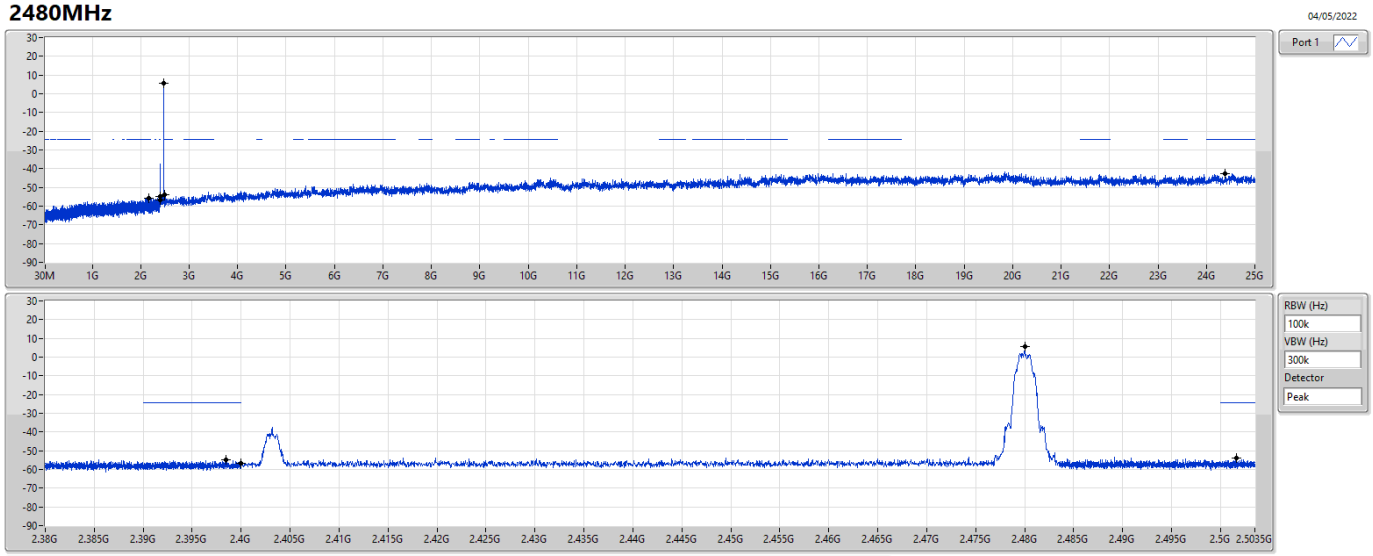
2440MHz



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
2.48003G	5.43	-24.57	2.13443G	-55.41	2.39564G	-54.56	2.4G	-57.76	2.50247G	-54.04	24.50226G	-42.77	1

BT-LE(2Mbps) **CSENdB-DTS**

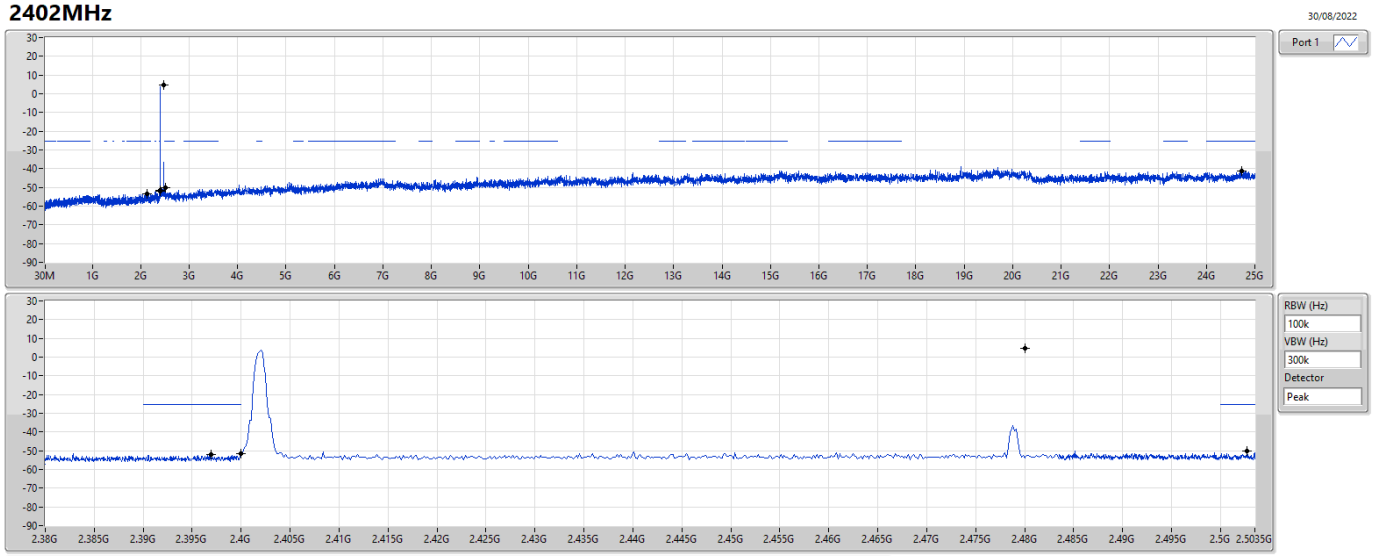
2480MHz



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
2.48003G	5.43	-24.57	2.17408G	-55.86	2.39842G	-54.70	2.4G	-56.64	2.50164G	-54.05	24.38978G	-42.58	1

BT-LE(125kbps) **CSENdB-DTS**

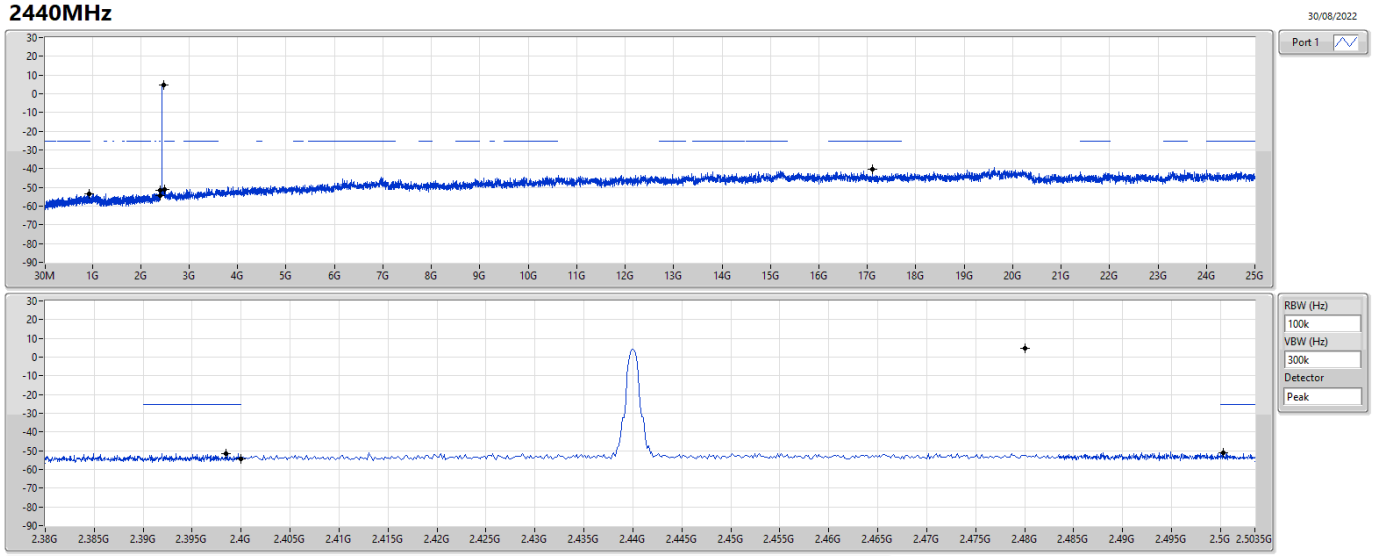
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47999G	4.66	-25.34	2.13913G	-53.37	2.39692G	-52.01	2.4G	-51.47	2.5027G	-50.14	24.73567G	-41.04	1

BT-LE(125kbps) **CSENdB-DTS**

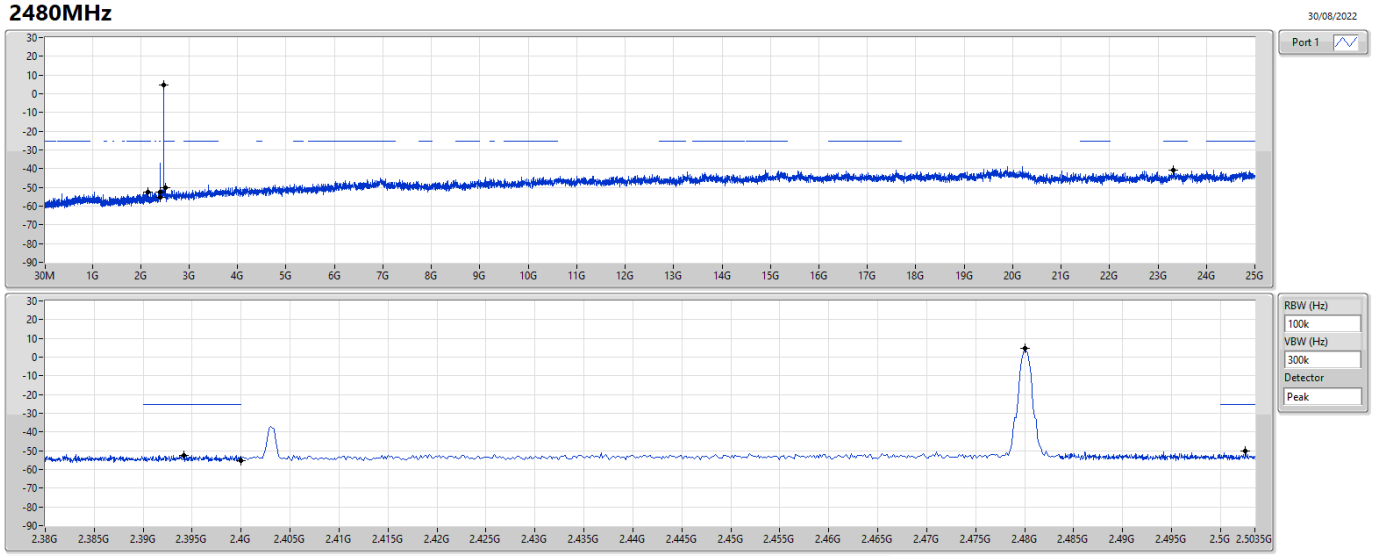
2440MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47999G	4.66	-25.34	944.15M	-53.45	2.39844G	-51.49	2.4G	-54.19	2.5003G	-51.29	17.10092G	-40.09	1

BT-LE(125kbps) **CSENdB-DTS**

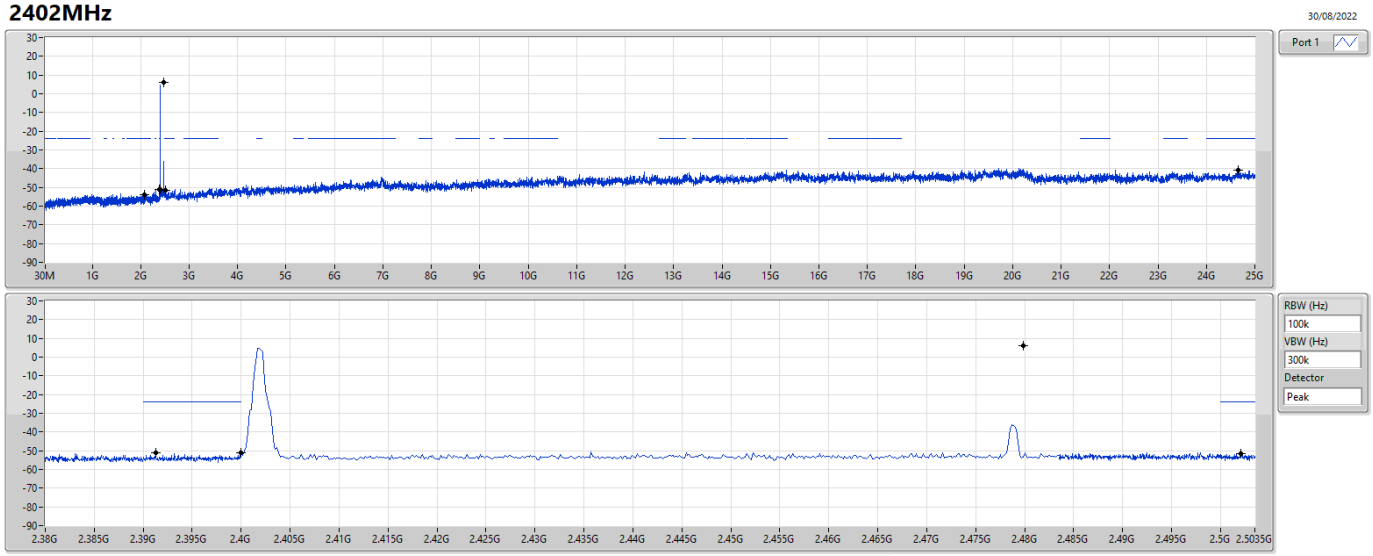
2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47999G	4.66	-25.34	2.14383G	-52.28	2.39416G	-52.34	2.4G	-55.08	2.50254G	-50.39	23.31839G	-40.56	1

BT-LE(500kbps) **CSENdB-DTS**

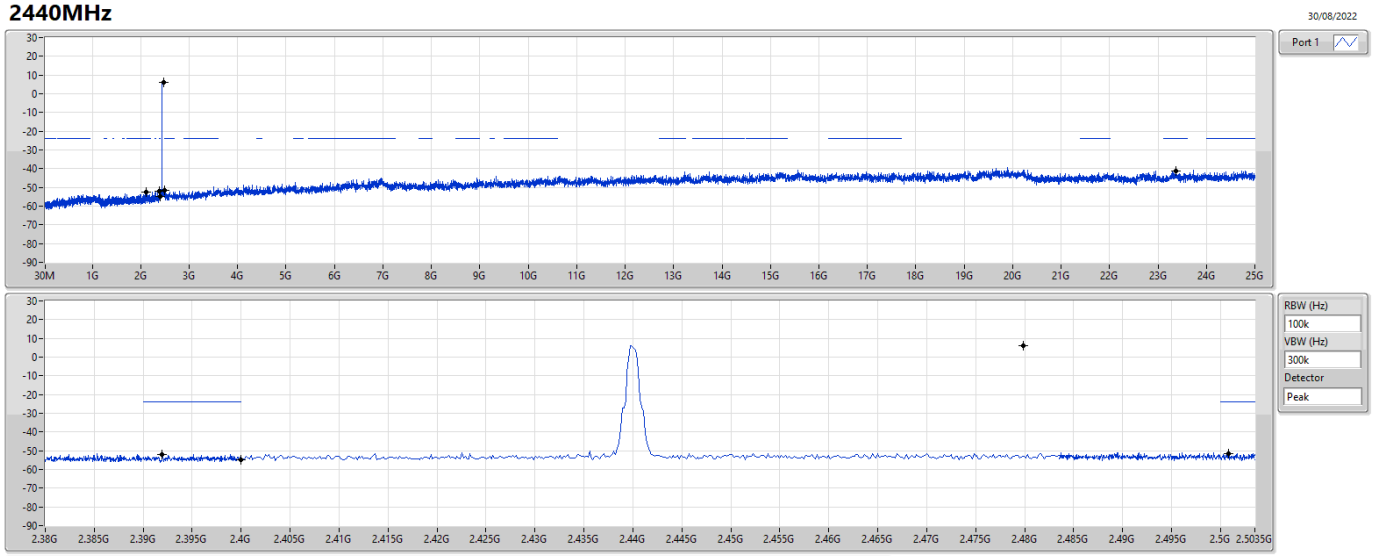
2402MHz



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
2.47983G	6.24	-23.76	2.08273G	-54.08	2.39128G	-51.06	2.4G	-50.88	2.50206G	-51.63	24.64849G	-40.81	1

BT-LE(500kbps) **CSENdB-DTS**

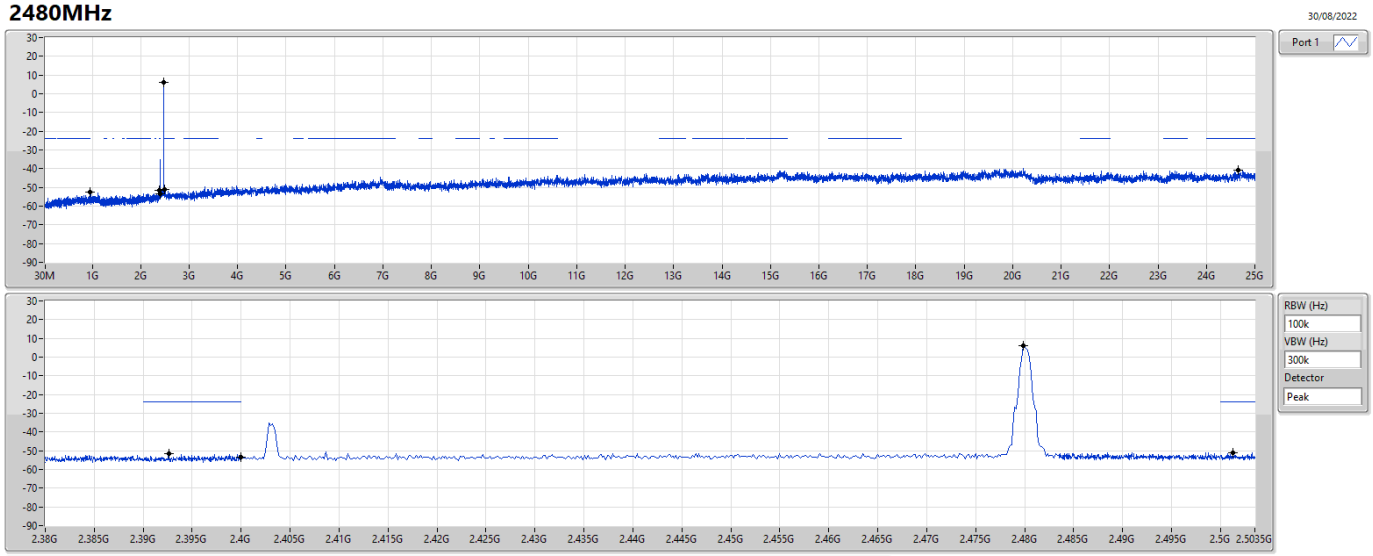
2440MHz



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
2.47983G	6.24	-23.76	2.11563G	-52.59	2.39192G	-51.96	2.4G	-54.78	2.50078G	-51.42	23.37463G	-41.23	1

BT-LE(500kbps) **CSENdB-DTS**

2480MHz



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
2.47983G	6.24	-23.76	951.2M	-52.67	2.3926G	-51.69	2.4G	-53.31	2.50126G	-50.93	24.65693G	-40.71	1

Summary

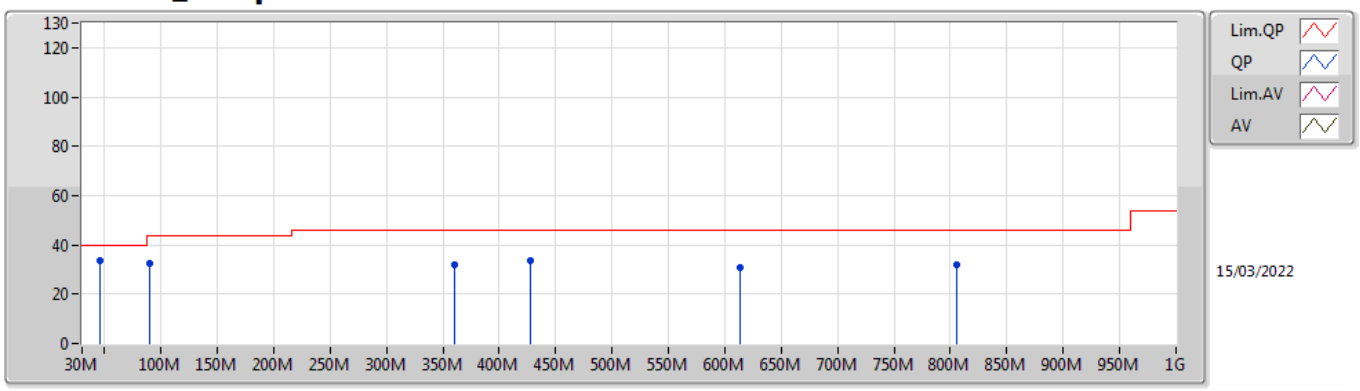
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	45.52M	33.56	40.00	-6.44	3	Vertical	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	45.52M	33.56	40.00	-6.44	3	Vertical	0	1.00	-
2440MHz	Pass	PK	90.14M	32.28	43.50	-11.22	3	Vertical	0	1.00	-
2440MHz	Pass	PK	359.8M	31.74	46.00	-14.26	3	Vertical	0	1.00	-
2440MHz	Pass	PK	427.7M	33.56	46.00	-12.44	3	Vertical	0	1.00	-
2440MHz	Pass	PK	613.94M	30.90	46.00	-15.10	3	Vertical	0	1.00	-
2440MHz	Pass	PK	806M	32.03	46.00	-13.97	3	Vertical	0	1.00	-
2440MHz	Pass	PK	47.46M	33.25	40.00	-6.75	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	90.14M	31.94	43.50	-11.56	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	295.78M	34.23	46.00	-11.77	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	408.3M	39.17	46.00	-6.83	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	631.4M	34.03	46.00	-11.97	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	749.74M	34.01	46.00	-11.99	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	9.564k	60.48	127.96	-67.48	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	33.534k	56.93	117.09	-60.16	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	73.296k	52.18	110.29	-58.11	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	388.8k	47.31	95.80	-48.49	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	2.12M	40.79	69.50	-28.71	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	5.165M	40.06	69.50	-29.44	3	Horizontal	360	1.00	-

BT-LE(2Mbps)

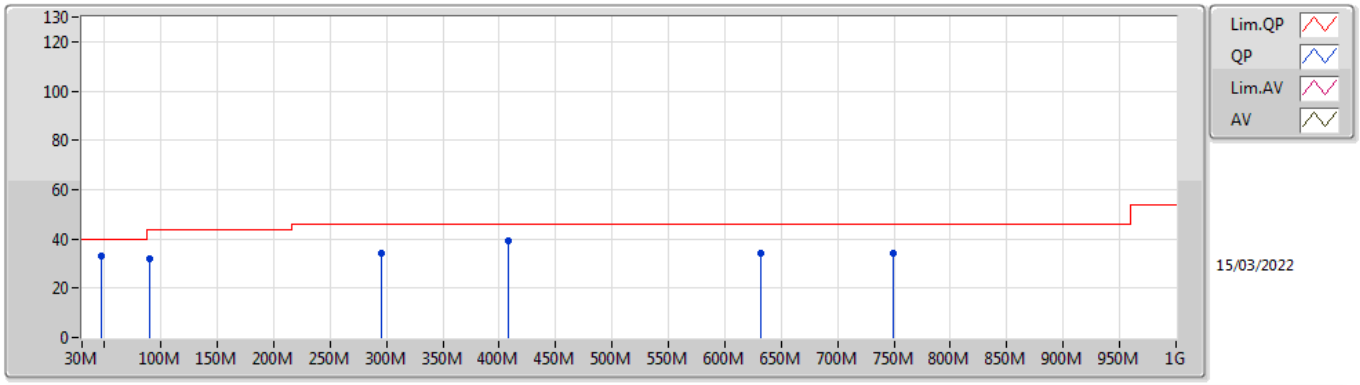
2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	45.52M	33.56	40.00	-6.44	-11.58	3	Vertical	0	1.00	-	45.14	14.97	1.03	27.58
PK	90.14M	32.28	43.50	-11.22	-12.39	3	Vertical	0	1.00	-	44.67	14.10	1.35	27.84
PK	359.8M	31.74	46.00	-14.26	-4.90	3	Vertical	0	1.00	-	36.64	19.93	2.59	27.42
PK	427.7M	33.56	46.00	-12.44	-3.34	3	Vertical	0	1.00	-	36.90	21.77	2.83	27.94
PK	613.94M	30.90	46.00	-15.10	-0.88	3	Vertical	0	1.00	-	31.78	24.10	3.39	28.37
PK	806M	32.03	46.00	-13.97	1.08	3	Vertical	0	1.00	-	30.95	25.05	3.89	27.86

BT-LE(2Mbps)

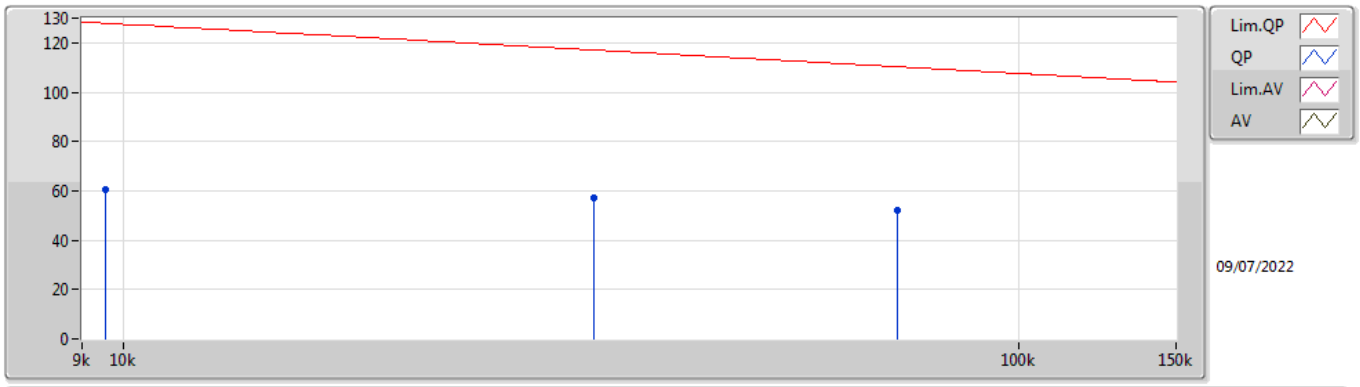
2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	47.46M	33.25	40.00	-6.75	-12.45	3	Horizontal	360	1.00	-	45.70	14.15	1.04	27.64
PK	90.14M	31.94	43.50	-11.56	-12.39	3	Horizontal	360	1.00	-	44.33	14.10	1.35	27.84
PK	295.78M	34.23	46.00	-11.77	-6.46	3	Horizontal	360	1.00	-	40.69	18.26	2.34	27.06
PK	408.3M	39.17	46.00	-6.83	-3.61	3	Horizontal	360	1.00	-	42.78	21.45	2.77	27.83
PK	631.4M	34.03	46.00	-11.97	-0.55	3	Horizontal	360	1.00	-	34.58	24.32	3.42	28.29
PK	749.74M	34.01	46.00	-11.99	0.51	3	Horizontal	360	1.00	-	33.50	24.88	3.70	28.07

BT-LE(2Mbps)

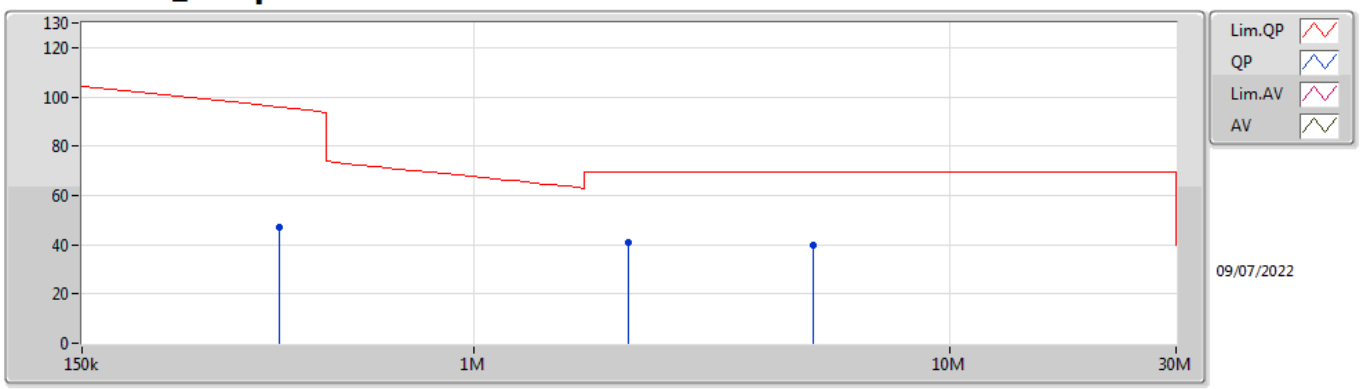
2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	9.564k	60.48	127.96	-67.48	19.25	3	Horizontal	0	1.00	-	41.23	19.07	0.18	-
PK	33.534k	56.93	117.09	-60.16	21.67	3	Horizontal	0	1.00	-	35.26	21.43	0.24	-
PK	73.296k	52.18	110.29	-58.11	20.47	3	Horizontal	0	1.00	-	31.71	20.19	0.28	-

BT-LE(2Mbps)

2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	388.8k	47.31	95.80	-48.49	20.50	3	Horizontal	360	1.00	-	26.81	20.20	0.30	-
PK	2.12M	40.79	69.50	-28.71	20.28	3	Horizontal	360	1.00	-	20.51	19.82	0.46	-
PK	5.165M	40.06	69.50	-29.44	20.99	3	Horizontal	360	1.00	-	19.07	20.38	0.61	-

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(1Mbps)	Pass	AV	2.4835G	50.05	54.00	-3.95	3	Horizontal	48	1.26	-
BT-LE(2Mbps)	Pass	AV	2.4835G	51.10	54.00	-2.90	3	Horizontal	49	1.26	-
BT-LE(125kbps)	Pass	AV	2.4835G	53.11	54.00	-0.89	3	Horizontal	43	1.50	-
BT-LE(500kbps)	Pass	AV	2.4835G	53.63	54.00	-0.37	3	Horizontal	40	1.48	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3692G	47.99	54.00	-6.01	3	Vertical	181	2.77	-
2402MHz	Pass	AV	2.402G	98.08	Inf	-Inf	3	Vertical	181	2.77	-
2402MHz	Pass	PK	2.3666G	59.31	74.00	-14.69	3	Vertical	181	2.77	-
2402MHz	Pass	PK	2.4022G	99.43	Inf	-Inf	3	Vertical	181	2.77	-
2402MHz	Pass	AV	2.358G	48.15	54.00	-5.85	3	Horizontal	74	1.08	-
2402MHz	Pass	AV	2.402G	101.08	Inf	-Inf	3	Horizontal	74	1.08	-
2402MHz	Pass	PK	2.369G	59.62	74.00	-14.38	3	Horizontal	74	1.08	-
2402MHz	Pass	PK	2.4018G	102.56	Inf	-Inf	3	Horizontal	74	1.08	-
2402MHz	Pass	AV	4.81798G	32.09	54.00	-21.91	3	Vertical	73	1.04	-
2402MHz	Pass	PK	4.81696G	43.95	74.00	-30.05	3	Vertical	73	1.04	-
2402MHz	Pass	AV	4.81636G	31.75	54.00	-22.25	3	Horizontal	192	2.03	-
2402MHz	Pass	PK	4.80382G	43.88	74.00	-30.12	3	Horizontal	192	2.03	-
2440MHz	Pass	AV	2.35G	49.35	54.00	-4.65	3	Vertical	115	3.00	-
2440MHz	Pass	AV	2.44G	98.71	Inf	-Inf	3	Vertical	115	3.00	-
2440MHz	Pass	AV	2.4948G	49.04	54.00	-4.96	3	Vertical	115	3.00	-
2440MHz	Pass	PK	2.34G	59.51	74.00	-14.49	3	Vertical	115	3.00	-
2440MHz	Pass	PK	2.4404G	100.10	Inf	-Inf	3	Vertical	115	3.00	-
2440MHz	Pass	PK	2.4848G	58.93	74.00	-15.07	3	Vertical	115	3.00	-
2440MHz	Pass	AV	2.3608G	49.33	54.00	-4.67	3	Horizontal	54	1.49	-
2440MHz	Pass	AV	2.44G	99.67	Inf	-Inf	3	Horizontal	54	1.49	-
2440MHz	Pass	AV	2.4956G	48.82	54.00	-5.18	3	Horizontal	54	1.49	-
2440MHz	Pass	PK	2.36G	60.79	74.00	-13.21	3	Horizontal	54	1.49	-
2440MHz	Pass	PK	2.4404G	101.02	Inf	-Inf	3	Horizontal	54	1.49	-
2440MHz	Pass	PK	2.4912G	58.66	74.00	-15.34	3	Horizontal	54	1.49	-
2440MHz	Pass	AV	4.8842G	31.14	54.00	-22.86	3	Vertical	167	1.50	-
2440MHz	Pass	AV	7.3118G	37.42	54.00	-16.58	3	Vertical	341	3.00	-
2440MHz	Pass	PK	4.88376G	43.28	74.00	-30.72	3	Vertical	167	1.50	-
2440MHz	Pass	PK	7.32096G	50.96	74.00	-23.04	3	Vertical	341	3.00	-
2440MHz	Pass	AV	4.8884G	31.06	54.00	-22.94	3	Horizontal	0	1.16	-
2440MHz	Pass	AV	7.33G	37.78	54.00	-16.22	3	Horizontal	80	1.00	-
2440MHz	Pass	PK	4.8766G	43.23	74.00	-30.77	3	Horizontal	0	1.16	-
2440MHz	Pass	PK	7.32072G	50.07	74.00	-23.93	3	Horizontal	80	1.00	-
2480MHz	Pass	AV	2.48G	100.11	Inf	-Inf	3	Vertical	176	2.62	-
2480MHz	Pass	AV	2.4835G	48.73	54.00	-5.27	3	Vertical	176	2.62	-
2480MHz	Pass	PK	2.4802G	101.54	Inf	-Inf	3	Vertical	176	2.62	-
2480MHz	Pass	PK	2.4942G	59.07	74.00	-14.93	3	Vertical	176	2.62	-
2480MHz	Pass	AV	2.48G	102.15	Inf	-Inf	3	Horizontal	48	1.26	-
2480MHz	Pass	AV	2.4835G	50.05	54.00	-3.95	3	Horizontal	48	1.26	-
2480MHz	Pass	PK	2.48G	103.72	Inf	-Inf	3	Horizontal	48	1.26	-
2480MHz	Pass	PK	2.4874G	58.66	74.00	-15.34	3	Horizontal	48	1.26	-
2480MHz	Pass	AV	4.94584G	32.06	54.00	-21.94	3	Vertical	39	2.23	-
2480MHz	Pass	AV	7.42632G	38.69	54.00	-15.31	3	Vertical	347	1.68	-
2480MHz	Pass	PK	4.94758G	44.72	74.00	-29.28	3	Vertical	39	2.23	-
2480MHz	Pass	PK	7.4313G	50.25	74.00	-23.75	3	Vertical	347	1.68	-
2480MHz	Pass	AV	4.97014G	32.05	54.00	-21.95	3	Horizontal	150	2.39	-
2480MHz	Pass	AV	7.44462G	38.29	54.00	-15.71	3	Horizontal	174	1.78	-
2480MHz	Pass	PK	4.95724G	44.10	74.00	-29.90	3	Horizontal	150	2.39	-
2480MHz	Pass	PK	7.43784G	50.59	74.00	-23.41	3	Horizontal	174	1.78	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3546G	48.80	54.00	-5.20	3	Vertical	178	2.79	-
2402MHz	Pass	AV	2.402G	97.13	Inf	-Inf	3	Vertical	178	2.79	-
2402MHz	Pass	PK	2.3624G	59.37	74.00	-14.63	3	Vertical	178	2.79	-
2402MHz	Pass	PK	2.402G	100.10	Inf	-Inf	3	Vertical	178	2.79	-
2402MHz	Pass	AV	2.3782G	48.83	54.00	-5.17	3	Horizontal	40	1.24	-
2402MHz	Pass	AV	2.402G	99.66	Inf	-Inf	3	Horizontal	40	1.24	-
2402MHz	Pass	PK	2.3692G	59.22	74.00	-14.78	3	Horizontal	40	1.24	-
2402MHz	Pass	PK	2.402G	102.65	Inf	-Inf	3	Horizontal	40	1.24	-
2402MHz	Pass	AV	4.8006G	33.02	54.00	-20.98	3	Vertical	145	1.57	-
2402MHz	Pass	PK	4.8122G	43.34	74.00	-30.66	3	Vertical	145	1.57	-
2402MHz	Pass	AV	4.79484G	32.78	54.00	-21.22	3	Horizontal	251	1.42	-

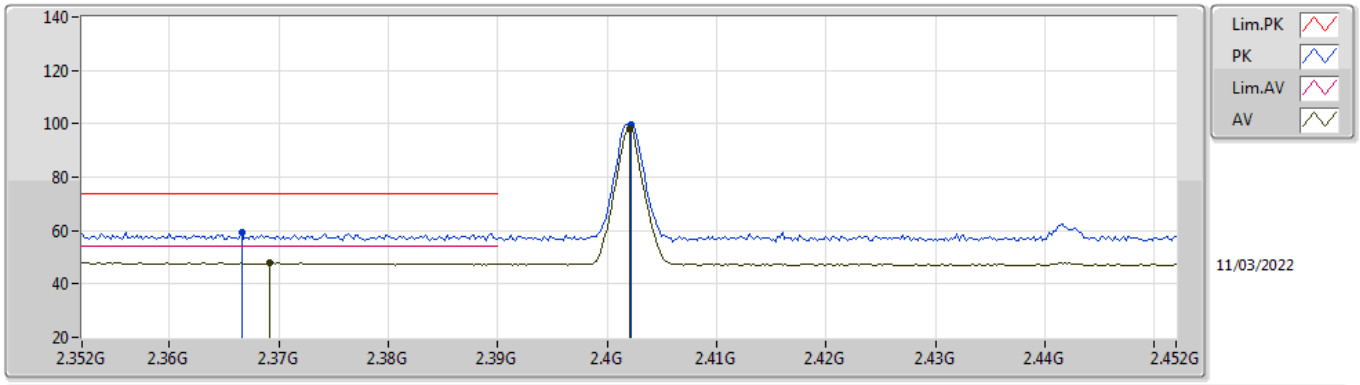
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2402MHz	Pass	PK	4.80936G	43.40	74.00	-30.60	3	Horizontal	251	1.42	-
2440MHz	Pass	AV	2.3508G	50.49	54.00	-3.51	3	Vertical	220	3.00	-
2440MHz	Pass	AV	2.44G	98.23	Inf	-Inf	3	Vertical	220	3.00	-
2440MHz	Pass	AV	2.4852G	49.93	54.00	-4.07	3	Vertical	220	3.00	-
2440MHz	Pass	PK	2.3752G	60.94	74.00	-13.06	3	Vertical	220	3.00	-
2440MHz	Pass	PK	2.44G	101.10	Inf	-Inf	3	Vertical	220	3.00	-
2440MHz	Pass	PK	2.4996G	59.85	74.00	-14.15	3	Vertical	220	3.00	-
2440MHz	Pass	AV	2.3624G	50.23	54.00	-3.77	3	Horizontal	55	1.47	-
2440MHz	Pass	AV	2.44G	99.13	Inf	-Inf	3	Horizontal	55	1.47	-
2440MHz	Pass	AV	2.4835G	49.88	54.00	-4.12	3	Horizontal	55	1.47	-
2440MHz	Pass	PK	2.364G	60.29	74.00	-13.71	3	Horizontal	55	1.47	-
2440MHz	Pass	PK	2.44G	102.07	Inf	-Inf	3	Horizontal	55	1.47	-
2440MHz	Pass	PK	2.4835G	60.06	74.00	-13.94	3	Horizontal	55	1.47	-
2440MHz	Pass	AV	4.8728G	32.65	54.00	-21.35	3	Vertical	227	2.35	-
2440MHz	Pass	AV	7.3415G	38.78	54.00	-15.22	3	Vertical	236	2.24	-
2440MHz	Pass	PK	4.87952G	43.22	74.00	-30.78	3	Vertical	227	2.35	-
2440MHz	Pass	PK	7.3332G	49.54	74.00	-24.46	3	Vertical	236	2.24	-
2440MHz	Pass	AV	4.8874G	32.36	54.00	-21.64	3	Horizontal	196	1.59	-
2440MHz	Pass	AV	7.3064G	39.17	54.00	-14.83	3	Horizontal	113	1.48	-
2440MHz	Pass	PK	4.8878G	43.64	74.00	-30.36	3	Horizontal	196	1.59	-
2440MHz	Pass	PK	7.3414G	49.69	74.00	-24.31	3	Horizontal	113	1.48	-
2480MHz	Pass	AV	2.48G	98.82	Inf	-Inf	3	Vertical	177	2.62	-
2480MHz	Pass	AV	2.4835G	50.48	54.00	-3.52	3	Vertical	177	2.62	-
2480MHz	Pass	PK	2.48G	101.77	Inf	-Inf	3	Vertical	177	2.62	-
2480MHz	Pass	PK	2.4835G	58.70	74.00	-15.30	3	Vertical	177	2.62	-
2480MHz	Pass	AV	2.48G	100.50	Inf	-Inf	3	Horizontal	49	1.26	-
2480MHz	Pass	AV	2.4835G	51.10	54.00	-2.90	3	Horizontal	49	1.26	-
2480MHz	Pass	PK	2.48G	103.63	Inf	-Inf	3	Horizontal	49	1.26	-
2480MHz	Pass	PK	2.4838G	59.28	74.00	-14.72	3	Horizontal	49	1.26	-
2480MHz	Pass	AV	4.95556G	33.70	54.00	-20.30	3	Vertical	120	1.70	-
2480MHz	Pass	AV	7.4532G	40.09	54.00	-13.91	3	Vertical	0	1.15	-
2480MHz	Pass	PK	4.95052G	44.46	74.00	-29.54	3	Vertical	120	1.70	-
2480MHz	Pass	PK	7.44612G	50.40	74.00	-23.60	3	Vertical	0	1.15	-
2480MHz	Pass	AV	4.9502G	33.13	54.00	-20.87	3	Horizontal	249	2.27	-
2480MHz	Pass	AV	7.43492G	39.76	54.00	-14.24	3	Horizontal	204	1.29	-
2480MHz	Pass	PK	4.95948G	44.85	74.00	-29.15	3	Horizontal	249	2.27	-
2480MHz	Pass	PK	7.4406G	50.65	74.00	-23.35	3	Horizontal	204	1.29	-
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.365G	48.93	54.00	-5.07	3	Vertical	118	1.02	-
2402MHz	Pass	AV	2.402G	81.85	Inf	-Inf	3	Vertical	118	1.02	-
2402MHz	Pass	PK	2.3554G	60.49	74.00	-13.51	3	Vertical	118	1.02	-
2402MHz	Pass	PK	2.4022G	84.11	Inf	-Inf	3	Vertical	118	1.02	-
2402MHz	Pass	AV	2.3684G	48.97	54.00	-5.03	3	Horizontal	76	1.06	-
2402MHz	Pass	AV	2.402G	97.91	Inf	-Inf	3	Horizontal	76	1.06	-
2402MHz	Pass	PK	2.3822G	60.66	74.00	-13.34	3	Horizontal	76	1.06	-
2402MHz	Pass	PK	2.4022G	99.54	Inf	-Inf	3	Horizontal	76	1.06	-
2402MHz	Pass	AV	4.80686G	32.57	54.00	-21.43	3	Vertical	138	1.50	-
2402MHz	Pass	PK	4.8014G	45.60	74.00	-28.40	3	Vertical	138	1.50	-
2402MHz	Pass	AV	4.80018G	32.60	54.00	-21.40	3	Horizontal	254	1.50	-
2402MHz	Pass	PK	4.80168G	45.39	74.00	-28.61	3	Horizontal	254	1.50	-
2440MHz	Pass	AV	2.3808G	48.91	54.00	-5.09	3	Vertical	126	3.00	-
2440MHz	Pass	AV	2.44G	99.37	Inf	-Inf	3	Vertical	126	3.00	-
2440MHz	Pass	AV	2.4988G	49.54	54.00	-4.46	3	Vertical	126	3.00	-
2440MHz	Pass	PK	2.368G	59.94	74.00	-14.06	3	Vertical	126	3.00	-
2440MHz	Pass	PK	2.44G	101.02	Inf	-Inf	3	Vertical	126	3.00	-
2440MHz	Pass	PK	2.4896G	60.37	74.00	-13.63	3	Vertical	126	3.00	-
2440MHz	Pass	AV	2.3776G	48.85	54.00	-5.15	3	Horizontal	299	1.09	-
2440MHz	Pass	AV	2.44G	100.66	Inf	-Inf	3	Horizontal	299	1.09	-
2440MHz	Pass	AV	2.4936G	49.43	54.00	-4.57	3	Horizontal	299	1.09	-
2440MHz	Pass	PK	2.35G	60.55	74.00	-13.45	3	Horizontal	299	1.09	-
2440MHz	Pass	PK	2.4404G	102.34	Inf	-Inf	3	Horizontal	299	1.09	-
2440MHz	Pass	PK	2.498G	60.94	74.00	-13.06	3	Horizontal	299	1.09	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	4.88038G	32.57	54.00	-21.43	3	Vertical	144	1.50	-
2440MHz	Pass	AV	7.32428G	38.03	54.00	-15.97	3	Vertical	134	1.50	-
2440MHz	Pass	PK	4.87838G	45.70	74.00	-28.30	3	Vertical	144	1.50	-
2440MHz	Pass	PK	7.31606G	51.29	74.00	-22.71	3	Vertical	134	1.50	-
2440MHz	Pass	AV	4.87602G	32.53	54.00	-21.47	3	Horizontal	360	1.50	-
2440MHz	Pass	AV	7.32162G	38.06	54.00	-15.94	3	Horizontal	44	1.32	-
2440MHz	Pass	PK	4.87994G	45.94	74.00	-28.06	3	Horizontal	360	1.50	-
2440MHz	Pass	PK	7.31712G	50.51	74.00	-23.49	3	Horizontal	44	1.32	-
2480MHz	Pass	AV	2.48G	100.23	Inf	-Inf	3	Vertical	127	2.92	-
2480MHz	Pass	AV	2.4835G	52.79	54.00	-1.21	3	Vertical	127	2.92	-
2480MHz	Pass	PK	2.48G	101.98	Inf	-Inf	3	Vertical	127	2.92	-
2480MHz	Pass	PK	2.4835G	60.58	74.00	-13.42	3	Vertical	127	2.92	-
2480MHz	Pass	AV	2.48G	100.70	Inf	-Inf	3	Horizontal	43	1.50	-
2480MHz	Pass	AV	2.4835G	53.11	54.00	-0.89	3	Horizontal	43	1.50	-
2480MHz	Pass	PK	2.48G	102.37	Inf	-Inf	3	Horizontal	43	1.50	-
2480MHz	Pass	PK	2.4835G	62.11	74.00	-11.89	3	Horizontal	43	1.50	-
2480MHz	Pass	AV	4.9563G	32.73	54.00	-21.27	3	Vertical	221	2.68	-
2480MHz	Pass	AV	7.43714G	37.57	54.00	-16.43	3	Vertical	164	1.36	-
2480MHz	Pass	PK	4.95896G	45.30	74.00	-28.70	3	Vertical	221	2.68	-
2480MHz	Pass	PK	7.43674G	50.52	74.00	-23.48	3	Vertical	164	1.36	-
2480MHz	Pass	AV	4.95544G	32.78	54.00	-21.22	3	Horizontal	21	1.31	-
2480MHz	Pass	AV	7.43508G	37.54	54.00	-16.46	3	Horizontal	331	1.16	-
2480MHz	Pass	PK	4.9641G	45.31	74.00	-28.69	3	Horizontal	21	1.31	-
2480MHz	Pass	PK	7.436G	50.74	74.00	-23.26	3	Horizontal	331	1.16	-
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3878G	48.92	54.00	-5.08	3	Vertical	174	2.77	-
2402MHz	Pass	AV	2.402G	96.84	Inf	-Inf	3	Vertical	174	2.77	-
2402MHz	Pass	PK	2.3592G	61.88	74.00	-12.12	3	Vertical	174	2.77	-
2402MHz	Pass	PK	2.4022G	98.49	Inf	-Inf	3	Vertical	174	2.77	-
2402MHz	Pass	AV	2.3532G	48.96	54.00	-5.04	3	Horizontal	74	1.25	-
2402MHz	Pass	AV	2.4022G	100.12	Inf	-Inf	3	Horizontal	74	1.25	-
2402MHz	Pass	PK	2.352G	60.60	74.00	-13.40	3	Horizontal	74	1.25	-
2402MHz	Pass	PK	2.4022G	101.70	Inf	-Inf	3	Horizontal	74	1.25	-
2402MHz	Pass	AV	4.80006G	32.48	54.00	-21.52	3	Vertical	77	2.15	-
2402MHz	Pass	PK	4.80664G	45.22	74.00	-28.78	3	Vertical	77	2.15	-
2402MHz	Pass	AV	4.80088G	32.43	54.00	-21.57	3	Horizontal	263	1.50	-
2402MHz	Pass	PK	4.804G	45.51	74.00	-28.49	3	Horizontal	263	1.50	-
2440MHz	Pass	AV	2.3844G	48.93	54.00	-5.07	3	Vertical	125	3.00	-
2440MHz	Pass	AV	2.44G	100.17	Inf	-Inf	3	Vertical	125	3.00	-
2440MHz	Pass	AV	2.4972G	49.51	54.00	-4.49	3	Vertical	125	3.00	-
2440MHz	Pass	PK	2.3596G	60.04	74.00	-13.96	3	Vertical	125	3.00	-
2440MHz	Pass	PK	2.4404G	101.76	Inf	-Inf	3	Vertical	125	3.00	-
2440MHz	Pass	PK	2.498G	61.42	74.00	-12.58	3	Vertical	125	3.00	-
2440MHz	Pass	AV	2.3844G	48.90	54.00	-5.10	3	Horizontal	302	1.02	-
2440MHz	Pass	AV	2.44G	101.28	Inf	-Inf	3	Horizontal	302	1.02	-
2440MHz	Pass	AV	2.49G	49.47	54.00	-4.53	3	Horizontal	302	1.02	-
2440MHz	Pass	PK	2.3672G	60.22	74.00	-13.78	3	Horizontal	302	1.02	-
2440MHz	Pass	PK	2.4404G	102.81	Inf	-Inf	3	Horizontal	302	1.02	-
2440MHz	Pass	PK	2.4868G	60.29	74.00	-13.71	3	Horizontal	302	1.02	-
2440MHz	Pass	AV	4.87974G	32.61	54.00	-21.39	3	Vertical	360	1.50	-
2440MHz	Pass	AV	7.32414G	38.20	54.00	-15.80	3	Vertical	242	1.50	-
2440MHz	Pass	PK	4.87634G	45.43	74.00	-28.57	3	Vertical	360	1.50	-
2440MHz	Pass	PK	7.32276G	51.25	74.00	-22.75	3	Vertical	242	1.50	-
2440MHz	Pass	AV	4.8785G	32.67	54.00	-21.33	3	Horizontal	360	1.50	-
2440MHz	Pass	AV	7.32476G	38.27	54.00	-15.73	3	Horizontal	11	1.50	-
2440MHz	Pass	PK	4.88048G	45.41	74.00	-28.59	3	Horizontal	360	1.50	-
2440MHz	Pass	PK	7.31992G	51.14	74.00	-22.86	3	Horizontal	11	1.50	-
2480MHz	Pass	AV	2.48G	100.37	Inf	-Inf	3	Vertical	111	2.92	-
2480MHz	Pass	AV	2.4835G	52.76	54.00	-1.24	3	Vertical	111	2.92	-
2480MHz	Pass	PK	2.48G	102.06	Inf	-Inf	3	Vertical	111	2.92	-
2480MHz	Pass	PK	2.4908G	61.14	74.00	-12.86	3	Vertical	111	2.92	-
2480MHz	Pass	AV	2.48G	101.59	Inf	-Inf	3	Horizontal	40	1.48	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz	Pass	AV	2.4835G	53.63	54.00	-0.37	3	Horizontal	40	1.48	-
2480MHz	Pass	PK	2.48G	103.41	Inf	-Inf	3	Horizontal	40	1.48	-
2480MHz	Pass	PK	2.4906G	60.71	74.00	-13.29	3	Horizontal	40	1.48	-
2480MHz	Pass	AV	4.95584G	32.98	54.00	-21.02	3	Vertical	112	1.50	-
2480MHz	Pass	AV	7.43584G	38.07	54.00	-15.93	3	Vertical	360	2.03	-
2480MHz	Pass	PK	4.96322G	46.19	74.00	-27.81	3	Vertical	112	1.50	-
2480MHz	Pass	PK	7.43698G	51.18	74.00	-22.82	3	Vertical	360	2.03	-
2480MHz	Pass	AV	4.95808G	32.92	54.00	-21.08	3	Horizontal	298	1.57	-
2480MHz	Pass	AV	7.43568G	37.84	54.00	-16.16	3	Horizontal	243	1.50	-
2480MHz	Pass	PK	4.95586G	45.95	74.00	-28.05	3	Horizontal	298	1.57	-
2480MHz	Pass	PK	7.44134G	51.48	74.00	-22.52	3	Horizontal	243	1.50	-

BT-LE(1Mbps)

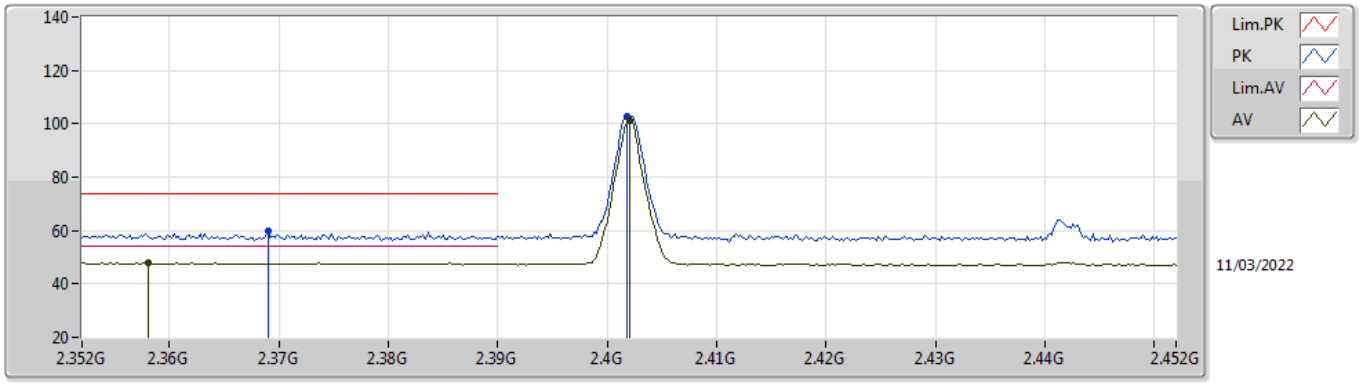
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3692G	47.99	54.00	-6.01	35.01	3	Vertical	181	2.77	-	12.98	27.76	7.25	-
AV	2.402G	98.08	Inf	-Inf	34.95	3	Vertical	181	2.77	-	63.13	27.69	7.26	-
PK	2.3666G	59.31	74.00	-14.69	35.01	3	Vertical	181	2.77	-	24.30	27.77	7.24	-
PK	2.4022G	99.43	Inf	-Inf	34.95	3	Vertical	181	2.77	-	64.48	27.69	7.26	-

BT-LE(1Mbps)

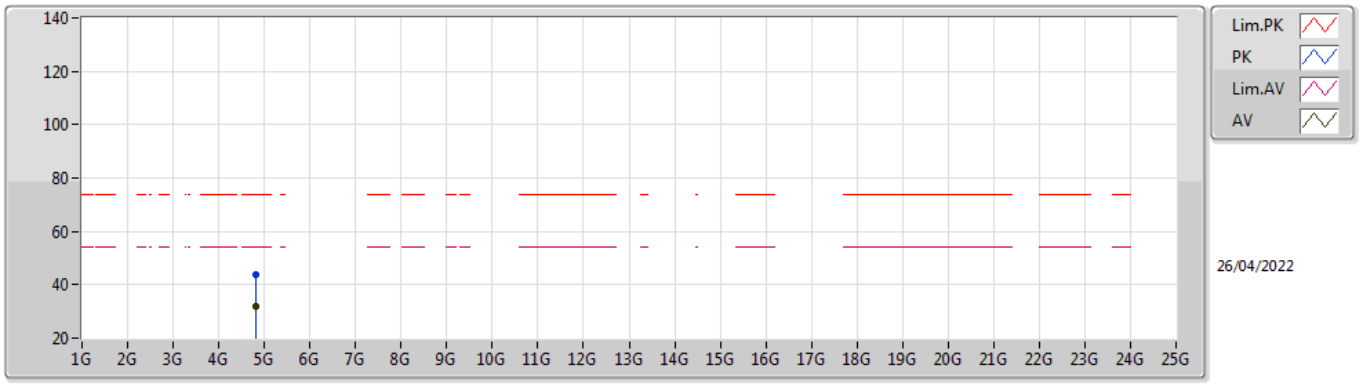
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.358G	48.15	54.00	-5.85	35.02	3	Horizontal	74	1.08	-	13.13	27.78	7.24	-
AV	2.402G	101.08	Inf	-Inf	34.95	3	Horizontal	74	1.08	-	66.13	27.69	7.26	-
PK	2.369G	59.62	74.00	-14.38	35.01	3	Horizontal	74	1.08	-	24.61	27.76	7.25	-
PK	2.4018G	102.56	Inf	-Inf	34.95	3	Horizontal	74	1.08	-	67.61	27.69	7.26	-

BT-LE(1Mbps)

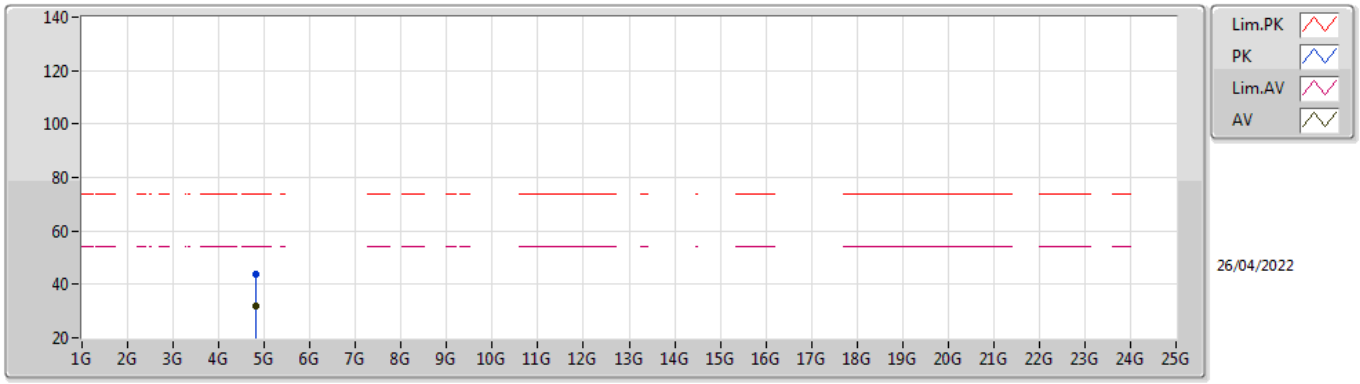
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.81798G	32.09	54.00	-21.91	6.63	3	Vertical	73	1.04	-	25.46	31.14	9.68	34.19
PK	4.81696G	43.95	74.00	-30.05	6.62	3	Vertical	73	1.04	-	37.33	31.13	9.68	34.19

BT-LE(1Mbps)

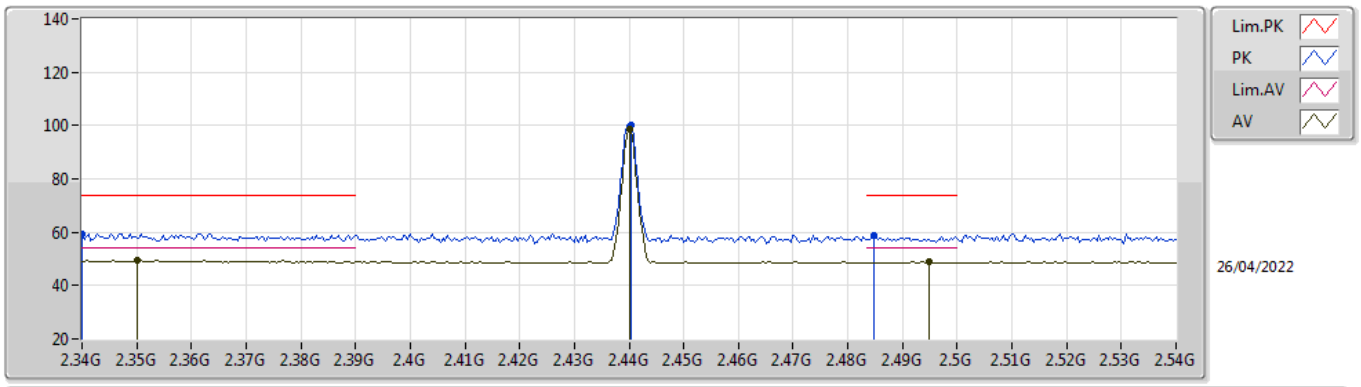
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.81636G	31.75	54.00	-22.25	6.62	3	Horizontal	192	2.03	-	25.13	31.13	9.68	34.19
PK	4.80382G	43.88	74.00	-30.12	6.59	3	Horizontal	192	2.03	-	37.29	31.11	9.67	34.19

BT-LE(1Mbps)

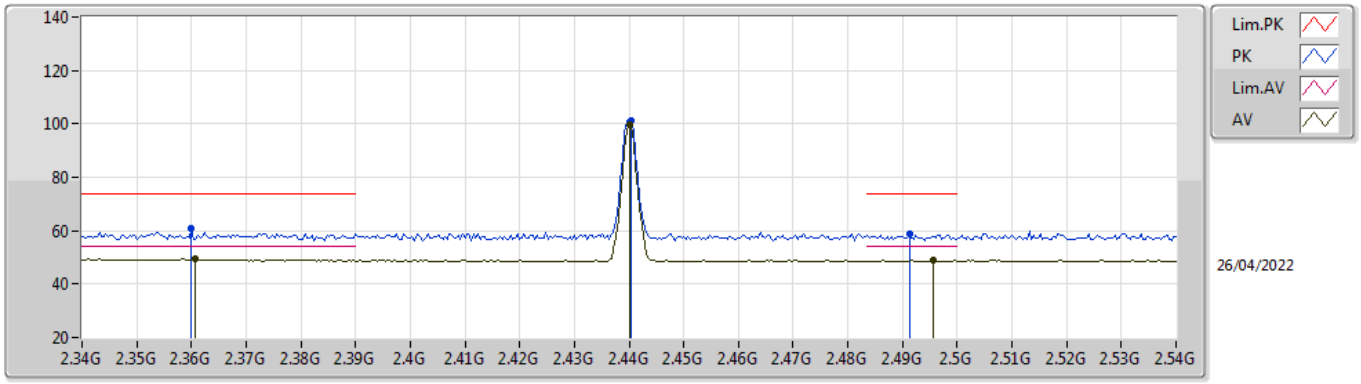
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.35G	49.35	54.00	-4.65	36.05	3	Vertical	115	3.00	-	13.30	27.80	8.25	-
AV	2.44G	98.71	Inf	-Inf	35.78	3	Vertical	115	3.00	-	62.93	27.46	8.32	-
AV	2.4948G	49.04	54.00	-4.96	35.75	3	Vertical	115	3.00	-	13.29	27.40	8.35	-
PK	2.34G	59.51	74.00	-14.49	36.06	3	Vertical	115	3.00	-	23.45	27.82	8.24	-
PK	2.4404G	100.10	Inf	-Inf	35.78	3	Vertical	115	3.00	-	64.32	27.46	8.32	-
PK	2.4848G	58.93	74.00	-15.07	35.75	3	Vertical	115	3.00	-	23.18	27.40	8.35	-

BT-LE(1Mbps)

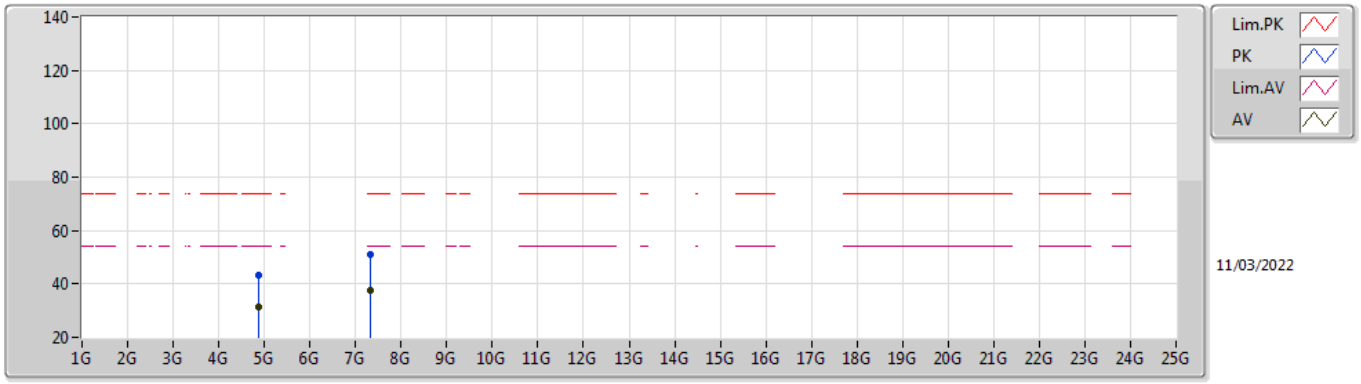
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3608G	49.33	54.00	-4.67	36.04	3	Horizontal	54	1.49	-	13.29	27.78	8.26	-
AV	2.44G	99.67	Inf	-Inf	35.78	3	Horizontal	54	1.49	-	63.89	27.46	8.32	-
AV	2.4956G	48.82	54.00	-5.18	35.75	3	Horizontal	54	1.49	-	13.07	27.40	8.35	-
PK	2.36G	60.79	74.00	-13.21	36.04	3	Horizontal	54	1.49	-	24.75	27.78	8.26	-
PK	2.4404G	101.02	Inf	-Inf	35.78	3	Horizontal	54	1.49	-	65.24	27.46	8.32	-
PK	2.4912G	58.66	74.00	-15.34	35.75	3	Horizontal	54	1.49	-	22.91	27.40	8.35	-

BT-LE(1Mbps)

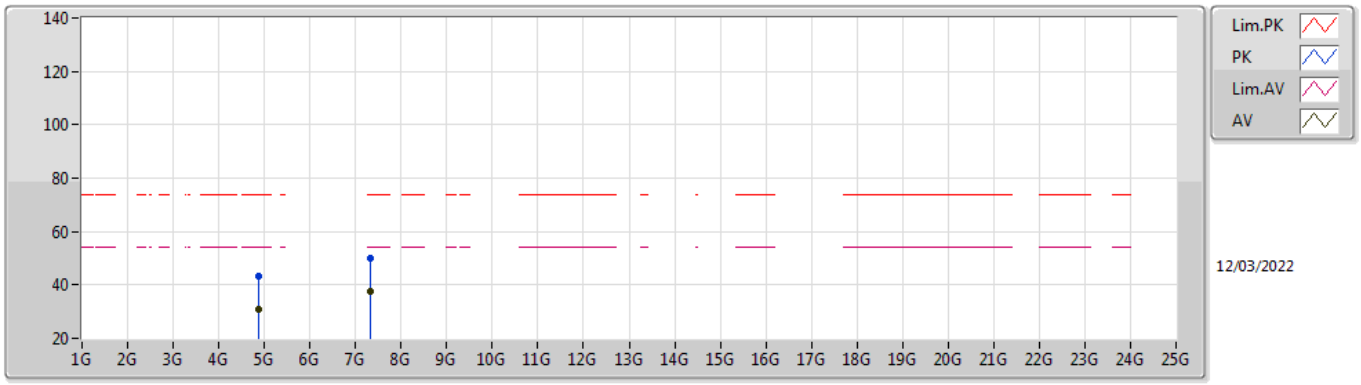
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8842G	31.14	54.00	-22.86	6.00	3	Vertical	167	1.50	-	25.14	31.20	8.96	34.16
AV	7.3118G	37.42	54.00	-16.58	12.50	3	Vertical	341	3.00	-	24.92	36.38	10.62	34.50
PK	4.88376G	43.28	74.00	-30.72	6.00	3	Vertical	167	1.50	-	37.28	31.20	8.96	34.16
PK	7.32096G	50.96	74.00	-23.04	12.49	3	Vertical	341	3.00	-	38.47	36.36	10.63	34.50

BT-LE(1Mbps)

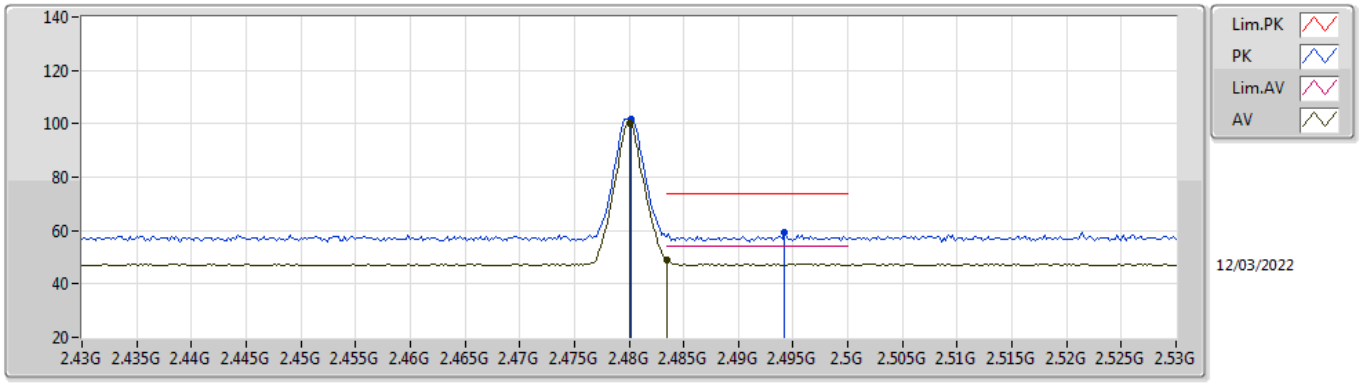
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8884G	31.06	54.00	-22.94	6.02	3	Horizontal	0	1.16	-	25.04	31.20	8.97	34.15
AV	7.33G	37.78	54.00	-16.22	12.48	3	Horizontal	80	1.00	-	25.30	36.34	10.64	34.50
PK	4.8766G	43.23	74.00	-30.77	6.00	3	Horizontal	0	1.16	-	37.23	31.20	8.96	34.16
PK	7.32072G	50.07	74.00	-23.93	12.49	3	Horizontal	80	1.00	-	37.58	36.36	10.63	34.50

BT-LE(1Mbps)

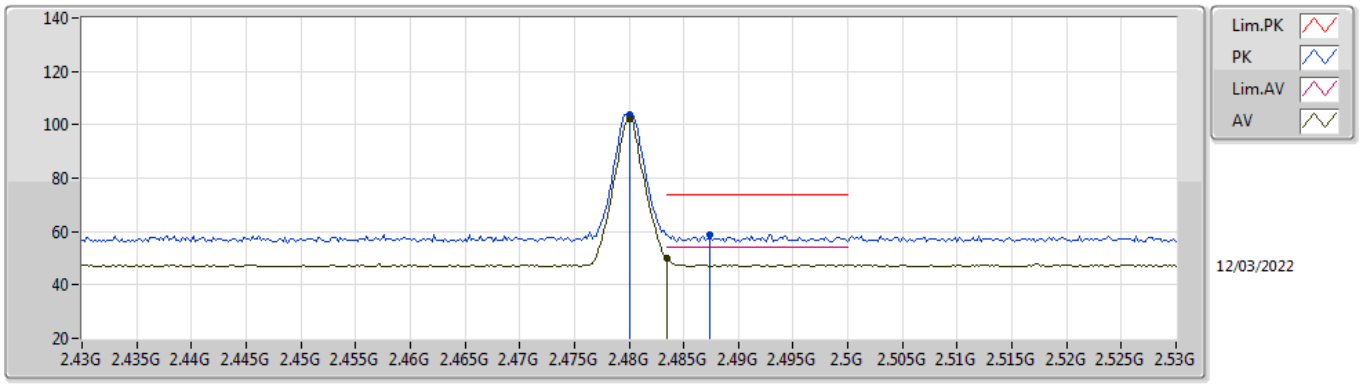
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	100.11	Inf	-Inf	34.72	3	Vertical	176	2.62	-	65.39	27.40	7.32	-
AV	2.4835G	48.73	54.00	-5.27	34.73	3	Vertical	176	2.62	-	14.00	27.40	7.33	-
PK	2.4802G	101.54	Inf	-Inf	34.72	3	Vertical	176	2.62	-	66.82	27.40	7.32	-
PK	2.4942G	59.07	74.00	-14.93	34.74	3	Vertical	176	2.62	-	24.33	27.40	7.34	-

BT-LE(1Mbps)

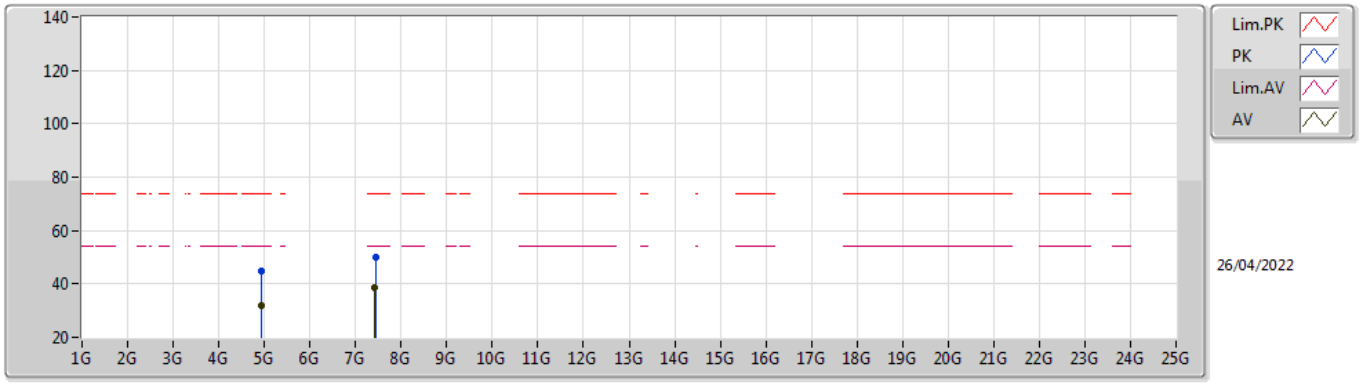
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	102.15	Inf	-Inf	34.72	3	Horizontal	48	1.26	-	67.43	27.40	7.32	-
AV	2.4835G	50.05	54.00	-3.95	34.73	3	Horizontal	48	1.26	-	15.32	27.40	7.33	-
PK	2.48G	103.72	Inf	-Inf	34.72	3	Horizontal	48	1.26	-	69.00	27.40	7.32	-
PK	2.4874G	58.66	74.00	-15.34	34.73	3	Horizontal	48	1.26	-	23.93	27.40	7.33	-

BT-LE(1Mbps)

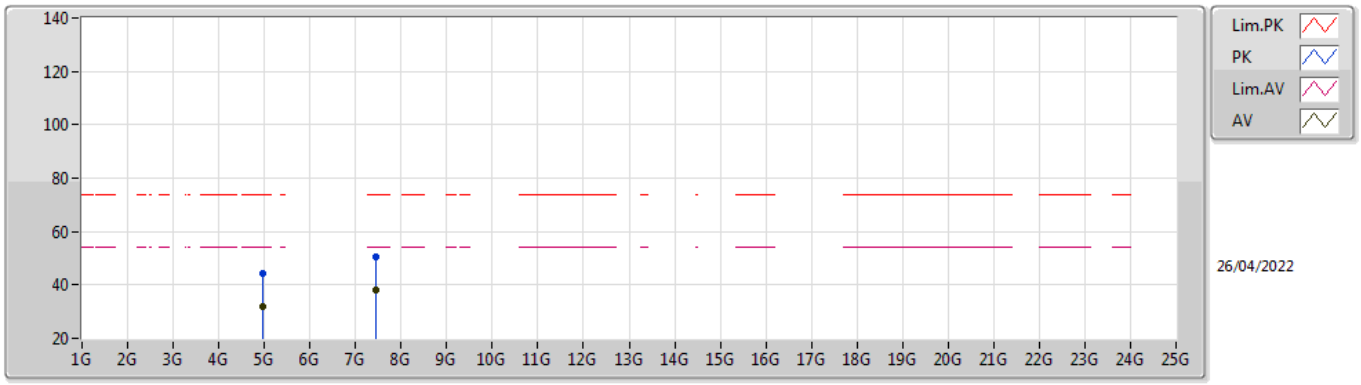
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.94584G	32.06	54.00	-21.94	6.98	3	Vertical	39	2.23	-	25.08	31.38	9.73	34.13
AV	7.42632G	38.69	54.00	-15.31	13.07	3	Vertical	347	1.68	-	25.62	36.25	11.31	34.49
PK	4.94758G	44.72	74.00	-29.28	6.99	3	Vertical	39	2.23	-	37.73	31.39	9.73	34.13
PK	7.4313G	50.25	74.00	-23.75	13.08	3	Vertical	347	1.68	-	37.17	36.26	11.31	34.49

BT-LE(1Mbps)

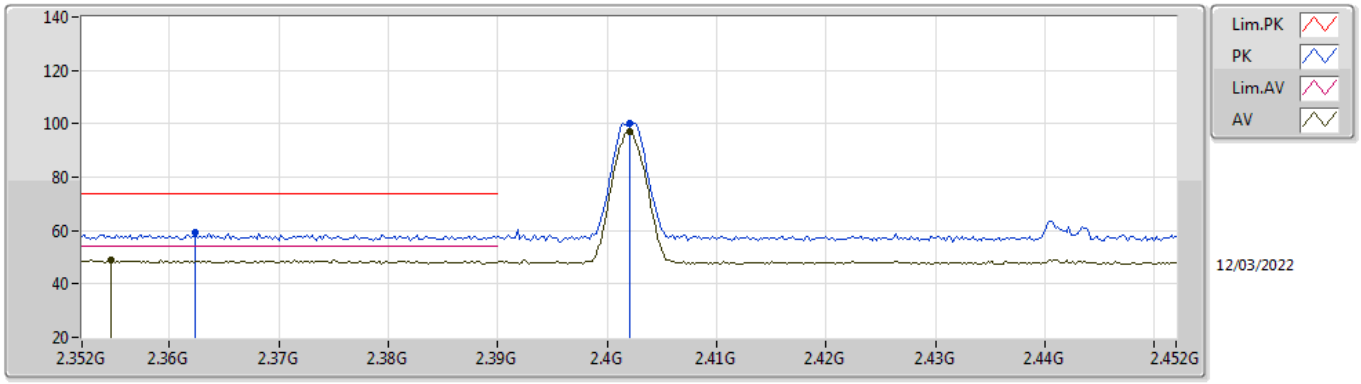
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.97014G	32.05	54.00	-21.95	7.07	3	Horizontal	150	2.39	-	24.98	31.44	9.74	34.11
AV	7.44462G	38.29	54.00	-15.71	13.10	3	Horizontal	174	1.78	-	25.19	36.29	11.30	34.49
PK	4.95724G	44.10	74.00	-29.90	7.02	3	Horizontal	150	2.39	-	37.08	31.41	9.73	34.12
PK	7.43784G	50.59	74.00	-23.41	13.09	3	Horizontal	174	1.78	-	37.50	36.28	11.30	34.49

BT-LE(2Mbps)

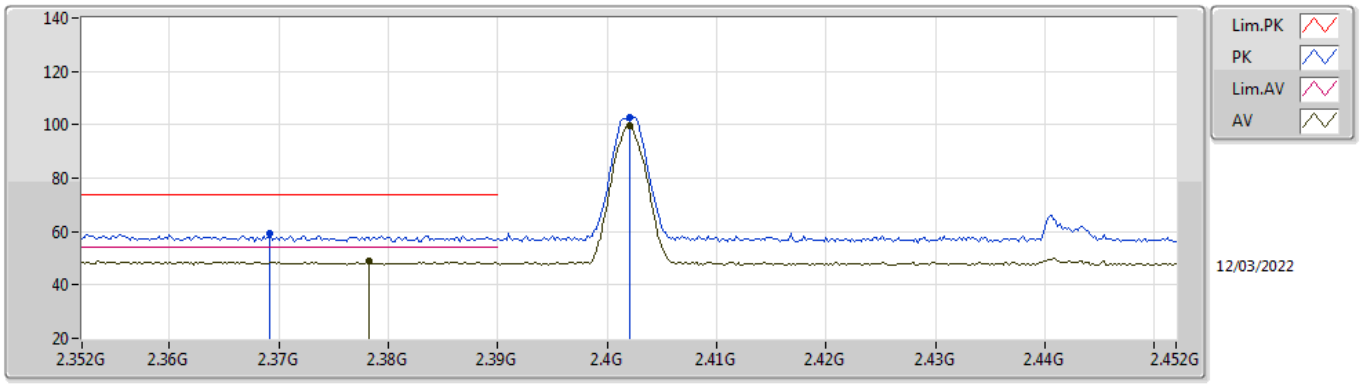
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3546G	48.80	54.00	-5.20	35.03	3	Vertical	178	2.79	-	13.77	27.79	7.24	-
AV	2.402G	97.13	Inf	-Inf	34.95	3	Vertical	178	2.79	-	62.18	27.69	7.26	-
PK	2.3624G	59.37	74.00	-14.63	35.02	3	Vertical	178	2.79	-	24.35	27.78	7.24	-
PK	2.402G	100.10	Inf	-Inf	34.95	3	Vertical	178	2.79	-	65.15	27.69	7.26	-

BT-LE(2Mbps)

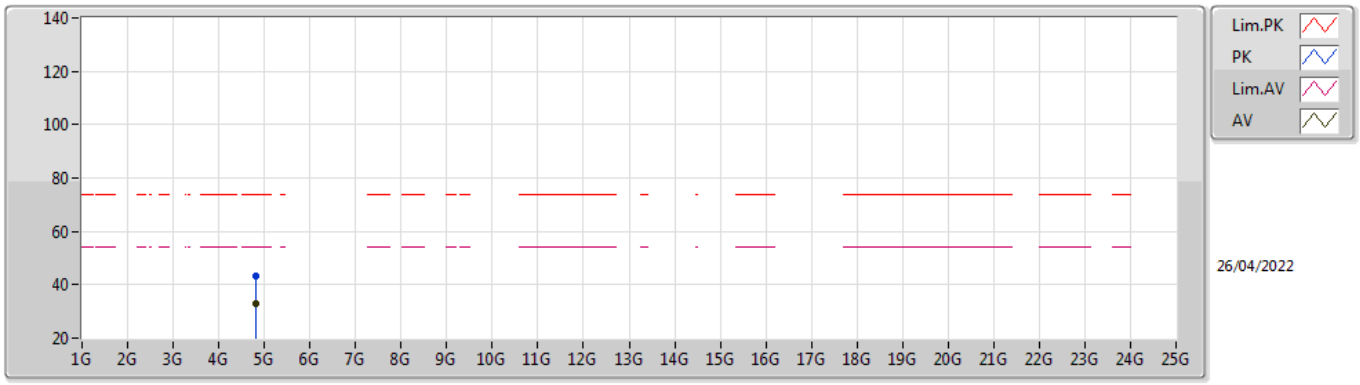
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3782G	48.83	54.00	-5.17	34.99	3	Horizontal	40	1.24	-	13.84	27.74	7.25	-
AV	2.402G	99.66	Inf	-Inf	34.95	3	Horizontal	40	1.24	-	64.71	27.69	7.26	-
PK	2.3692G	59.22	74.00	-14.78	35.01	3	Horizontal	40	1.24	-	24.21	27.76	7.25	-
PK	2.402G	102.65	Inf	-Inf	34.95	3	Horizontal	40	1.24	-	67.70	27.69	7.26	-

BT-LE(2Mbps)

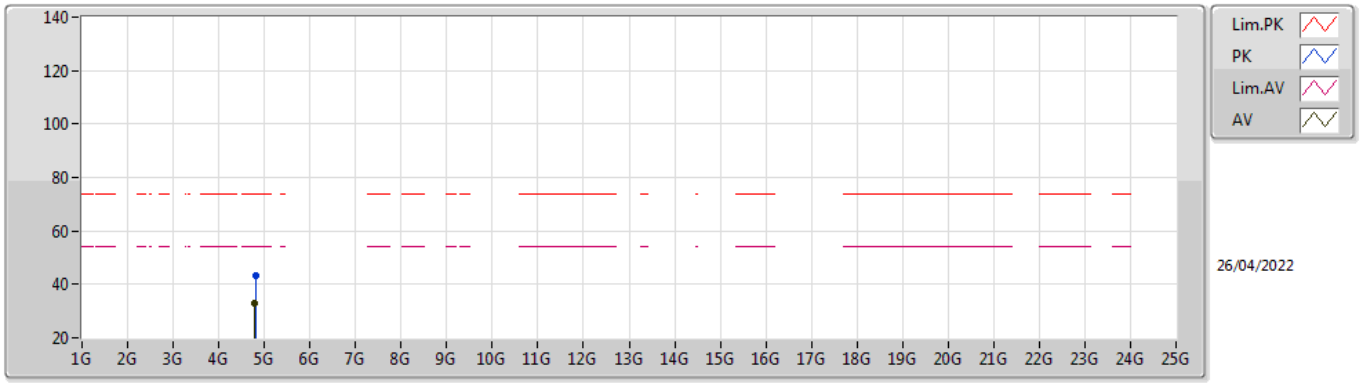
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8006G	33.02	54.00	-20.98	6.57	3	Vertical	145	1.57	-	26.45	31.10	9.67	34.20
PK	4.8122G	43.34	74.00	-30.66	6.60	3	Vertical	145	1.57	-	36.74	31.12	9.67	34.19

BT-LE(2Mbps)

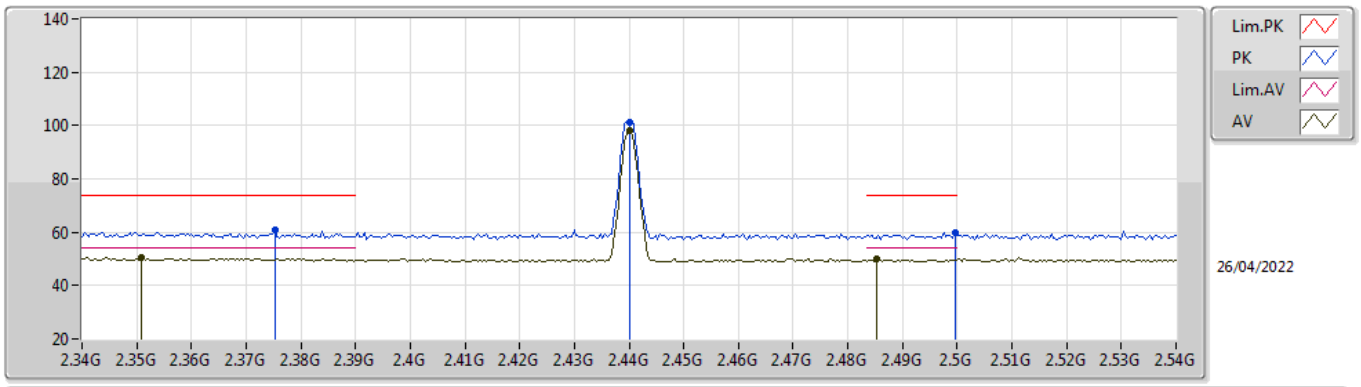
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.79484G	32.78	54.00	-21.22	6.59	3	Horizontal	251	1.42	-	26.19	31.12	9.67	34.20
PK	4.80936G	43.40	74.00	-30.60	6.60	3	Horizontal	251	1.42	-	36.80	31.12	9.67	34.19

BT-LE(2Mbps)

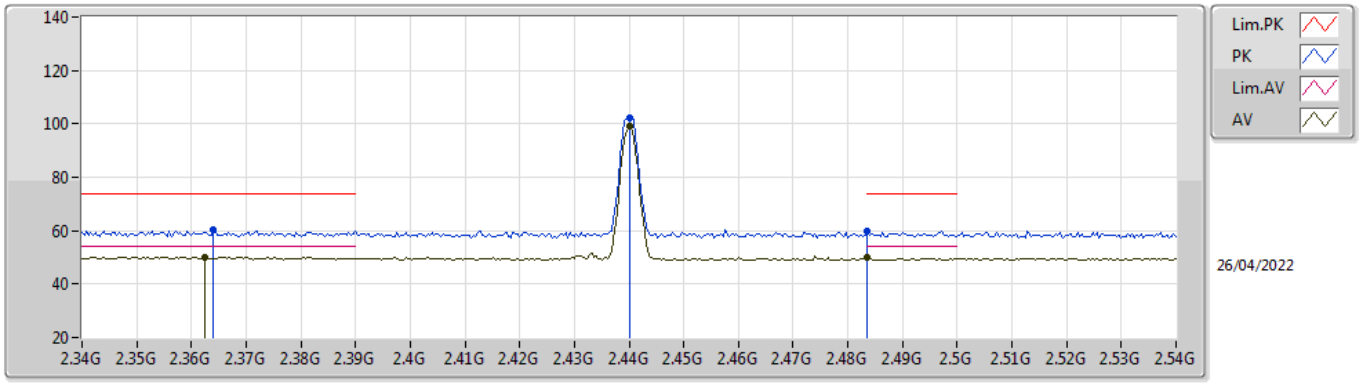
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3508G	50.49	54.00	-3.51	36.05	3	Vertical	220	3.00	-	14.44	27.80	8.25	-
AV	2.44G	98.23	Inf	-Inf	35.78	3	Vertical	220	3.00	-	62.45	27.46	8.32	-
AV	2.4852G	49.93	54.00	-4.07	35.75	3	Vertical	220	3.00	-	14.18	27.40	8.35	-
PK	2.3752G	60.94	74.00	-13.06	36.02	3	Vertical	220	3.00	-	24.92	27.75	8.27	-
PK	2.44G	101.10	Inf	-Inf	35.78	3	Vertical	220	3.00	-	65.32	27.46	8.32	-
PK	2.4996G	59.85	74.00	-14.15	35.75	3	Vertical	220	3.00	-	24.10	27.40	8.35	-

BT-LE(2Mbps)

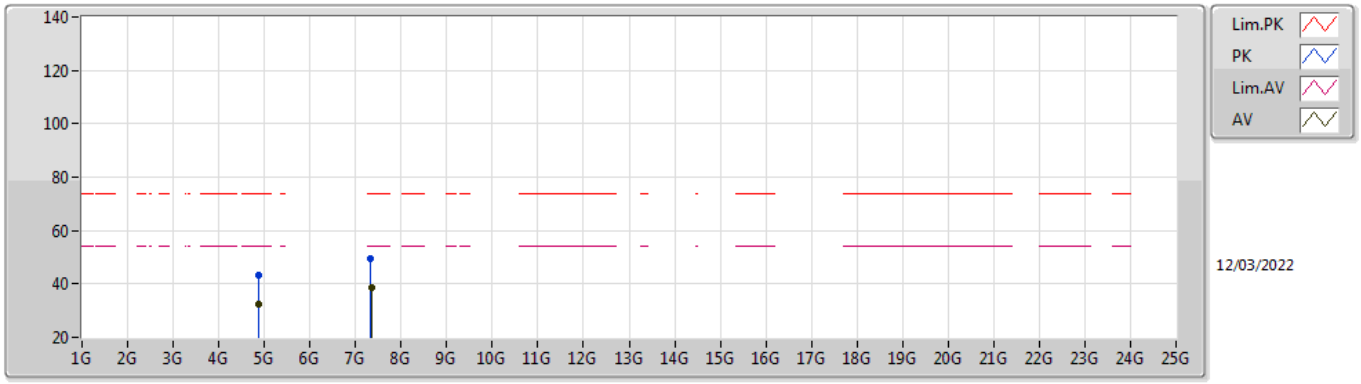
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3624G	50.23	54.00	-3.77	36.04	3	Horizontal	55	1.47	-	14.19	27.78	8.26	-
AV	2.44G	99.13	Inf	-Inf	35.78	3	Horizontal	55	1.47	-	63.35	27.46	8.32	-
AV	2.4835G	49.88	54.00	-4.12	35.74	3	Horizontal	55	1.47	-	14.14	27.40	8.34	-
PK	2.364G	60.29	74.00	-13.71	36.03	3	Horizontal	55	1.47	-	24.26	27.77	8.26	-
PK	2.44G	102.07	Inf	-Inf	35.78	3	Horizontal	55	1.47	-	66.29	27.46	8.32	-
PK	2.4835G	60.06	74.00	-13.94	35.74	3	Horizontal	55	1.47	-	24.32	27.40	8.34	-

BT-LE(2Mbps)

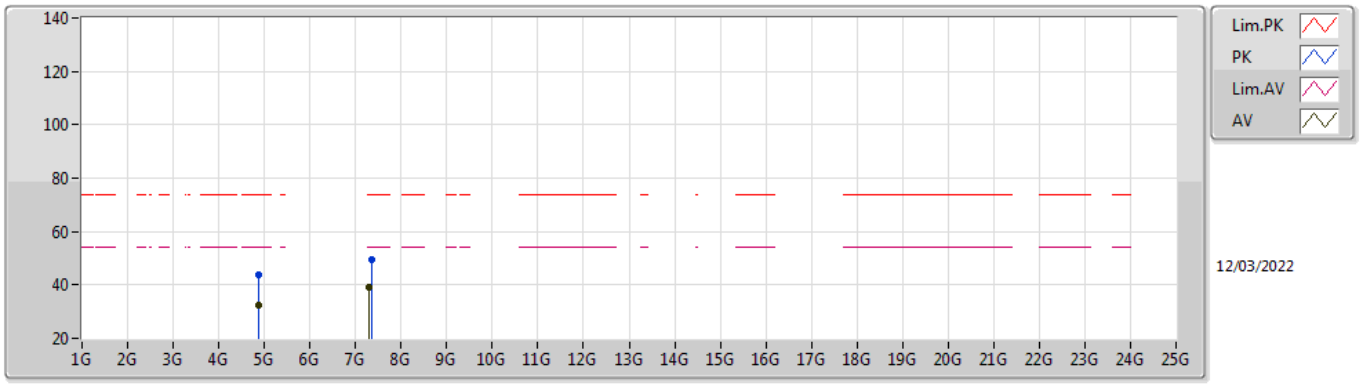
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8728G	32.65	54.00	-21.35	5.99	3	Vertical	227	2.35	-	26.66	31.20	8.95	34.16
AV	7.3415G	38.78	54.00	-15.22	12.47	3	Vertical	236	2.24	-	26.31	36.32	10.65	34.50
PK	4.87952G	43.22	74.00	-30.78	6.00	3	Vertical	227	2.35	-	37.22	31.20	8.96	34.16
PK	7.3332G	49.54	74.00	-24.46	12.47	3	Vertical	236	2.24	-	37.07	36.33	10.64	34.50

BT-LE(2Mbps)

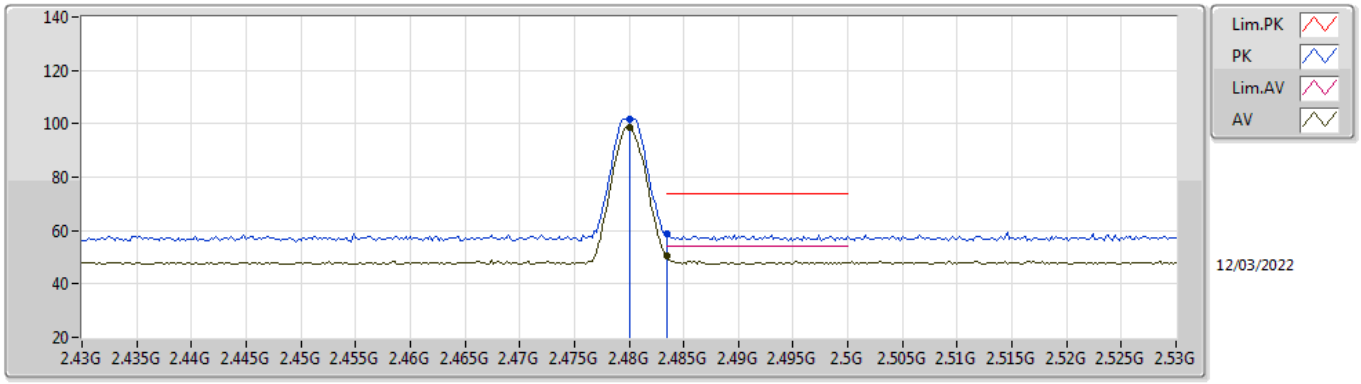
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8874G	32.36	54.00	-21.64	6.02	3	Horizontal	196	1.59	-	26.34	31.20	8.97	34.15
AV	7.3064G	39.17	54.00	-14.83	12.51	3	Horizontal	113	1.48	-	26.66	36.39	10.62	34.50
PK	4.8878G	43.64	74.00	-30.36	6.02	3	Horizontal	196	1.59	-	37.62	31.20	8.97	34.15
PK	7.3414G	49.69	74.00	-24.31	12.47	3	Horizontal	113	1.48	-	37.22	36.32	10.65	34.50

BT-LE(2Mbps)

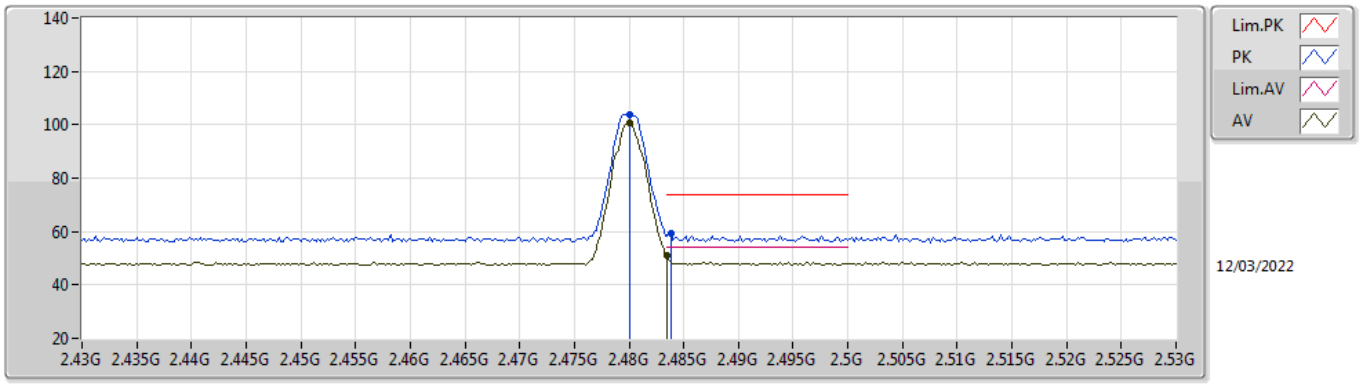
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	98.82	Inf	-Inf	34.72	3	Vertical	177	2.62	-	64.10	27.40	7.32	-
AV	2.4835G	50.48	54.00	-3.52	34.73	3	Vertical	177	2.62	-	15.75	27.40	7.33	-
PK	2.48G	101.77	Inf	-Inf	34.72	3	Vertical	177	2.62	-	67.05	27.40	7.32	-
PK	2.4835G	58.70	74.00	-15.30	34.73	3	Vertical	177	2.62	-	23.97	27.40	7.33	-

BT-LE(2Mbps)

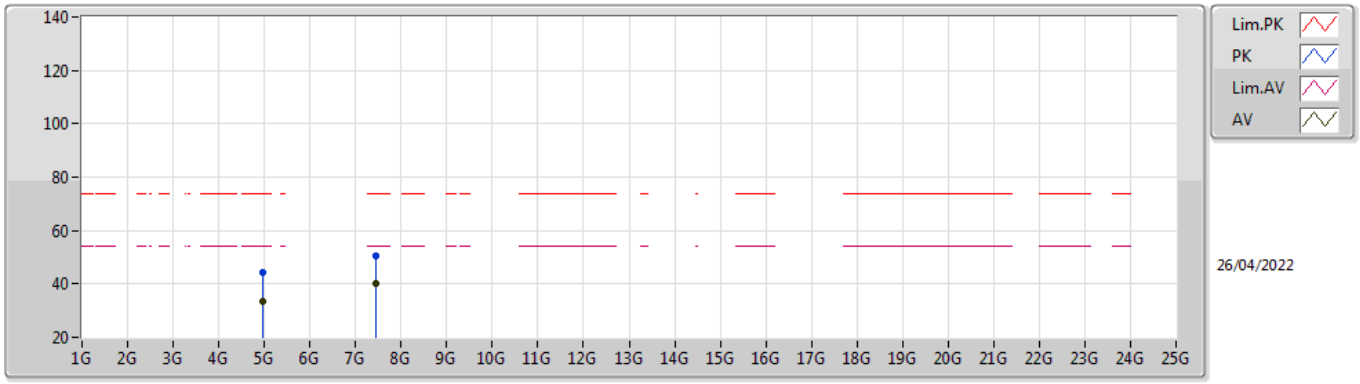
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	100.50	Inf	-Inf	34.72	3	Horizontal	49	1.26	-	65.78	27.40	7.32	-
AV	2.4835G	51.10	54.00	-2.90	34.73	3	Horizontal	49	1.26	-	16.37	27.40	7.33	-
PK	2.48G	103.63	Inf	-Inf	34.72	3	Horizontal	49	1.26	-	68.91	27.40	7.32	-
PK	2.4838G	59.28	74.00	-14.72	34.73	3	Horizontal	49	1.26	-	24.55	27.40	7.33	-

BT-LE(2Mbps)

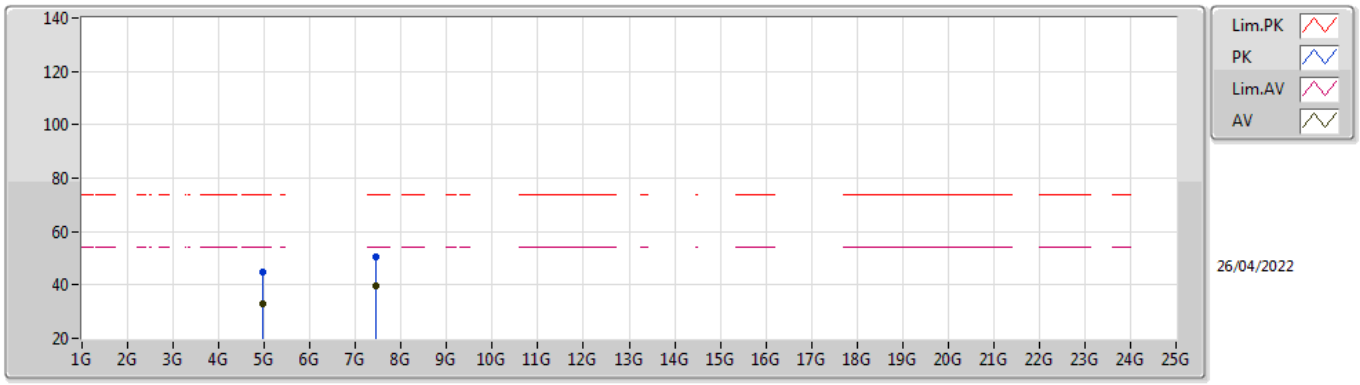
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95556G	33.70	54.00	-20.30	7.02	3	Vertical	120	1.70	-	26.68	31.41	9.73	34.12
AV	7.4532G	40.09	54.00	-13.91	13.12	3	Vertical	0	1.15	-	26.97	36.31	11.29	34.48
PK	4.95052G	44.46	74.00	-29.54	7.01	3	Vertical	120	1.70	-	37.45	31.40	9.73	34.12
PK	7.44612G	50.40	74.00	-23.60	13.09	3	Vertical	0	1.15	-	37.31	36.29	11.29	34.49

BT-LE(2Mbps)

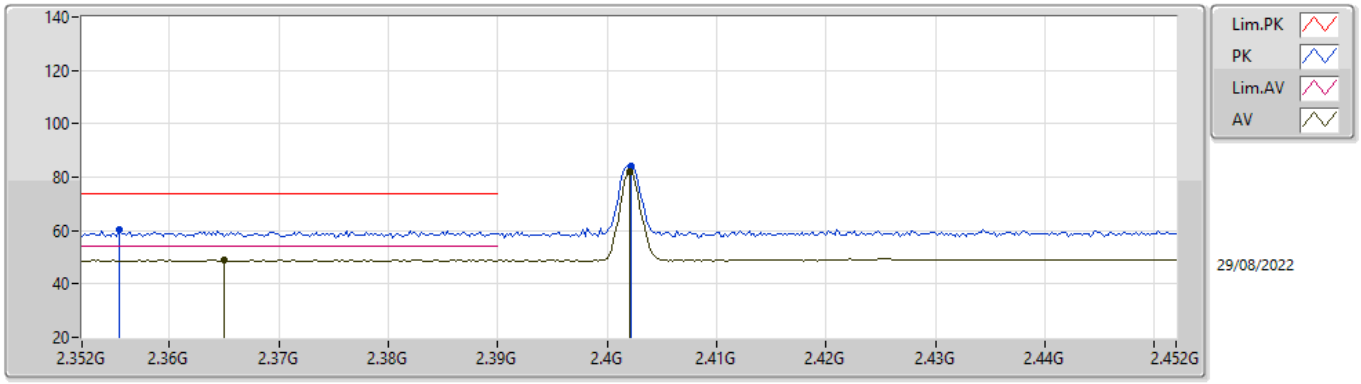
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9502G	33.13	54.00	-20.87	7.01	3	Horizontal	249	2.27	-	26.12	31.40	9.73	34.12
AV	7.43492G	39.76	54.00	-14.24	13.09	3	Horizontal	204	1.29	-	26.67	36.27	11.31	34.49
PK	4.95948G	44.85	74.00	-29.15	7.03	3	Horizontal	249	2.27	-	37.82	31.42	9.73	34.12
PK	7.4406G	50.65	74.00	-23.35	13.09	3	Horizontal	204	1.29	-	37.56	36.28	11.30	34.49

BT-LE(125kbps)

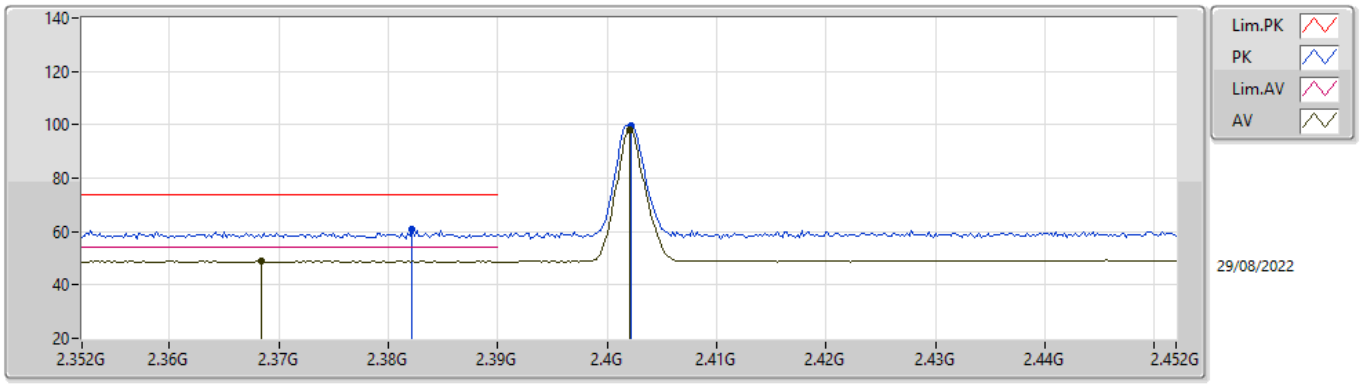
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.365G	48.93	54.00	-5.07	35.49	3	Vertical	118	1.02	-	13.44	27.23	8.26	-
AV	2.402G	81.85	Inf	-Inf	35.60	3	Vertical	118	1.02	-	46.25	27.31	8.29	-
PK	2.3554G	60.49	74.00	-13.51	35.47	3	Vertical	118	1.02	-	25.02	27.21	8.26	-
PK	2.4022G	84.11	Inf	-Inf	35.60	3	Vertical	118	1.02	-	48.51	27.31	8.29	-

BT-LE(125kbps)

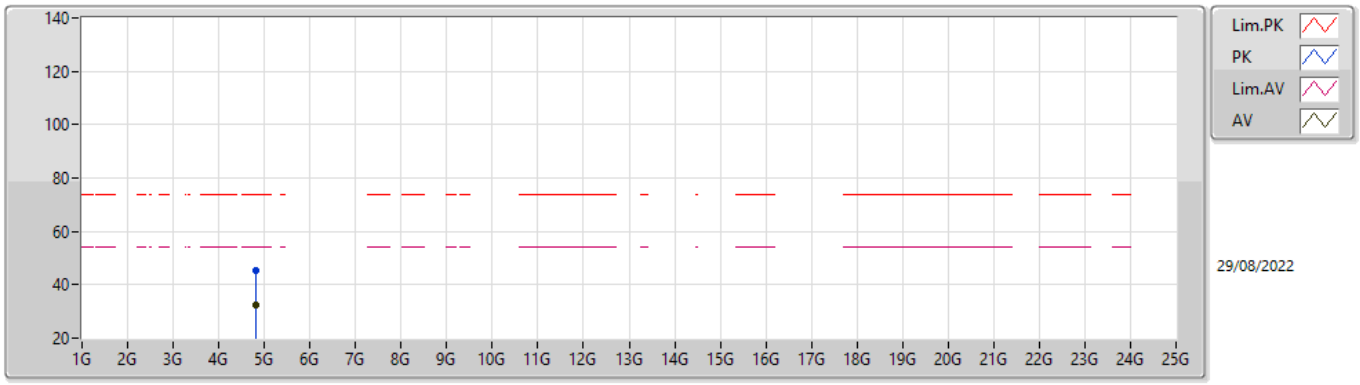
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3684G	48.97	54.00	-5.03	35.51	3	Horizontal	76	1.06	-	13.46	27.24	8.27	-
AV	2.402G	97.91	Inf	-Inf	35.60	3	Horizontal	76	1.06	-	62.31	27.31	8.29	-
PK	2.3822G	60.66	74.00	-13.34	35.54	3	Horizontal	76	1.06	-	25.12	27.26	8.28	-
PK	2.4022G	99.54	Inf	-Inf	35.60	3	Horizontal	76	1.06	-	63.94	27.31	8.29	-

BT-LE(125kbps)

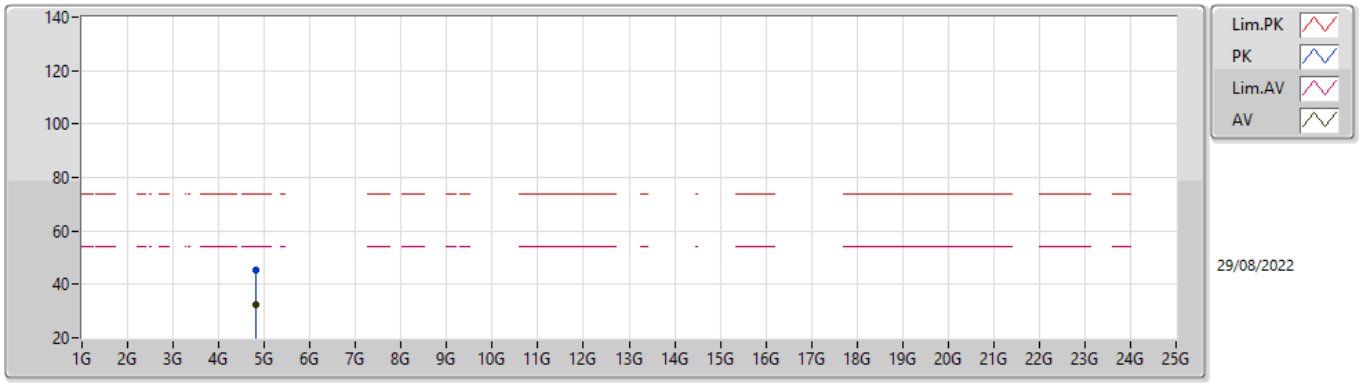
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80686G	32.57	54.00	-21.43	7.99	3	Vertical	138	1.50	-	24.58	32.51	9.67	34.19
PK	4.8014G	45.60	74.00	-28.40	7.97	3	Vertical	138	1.50	-	37.63	32.50	9.67	34.20

BT-LE(125kbps)

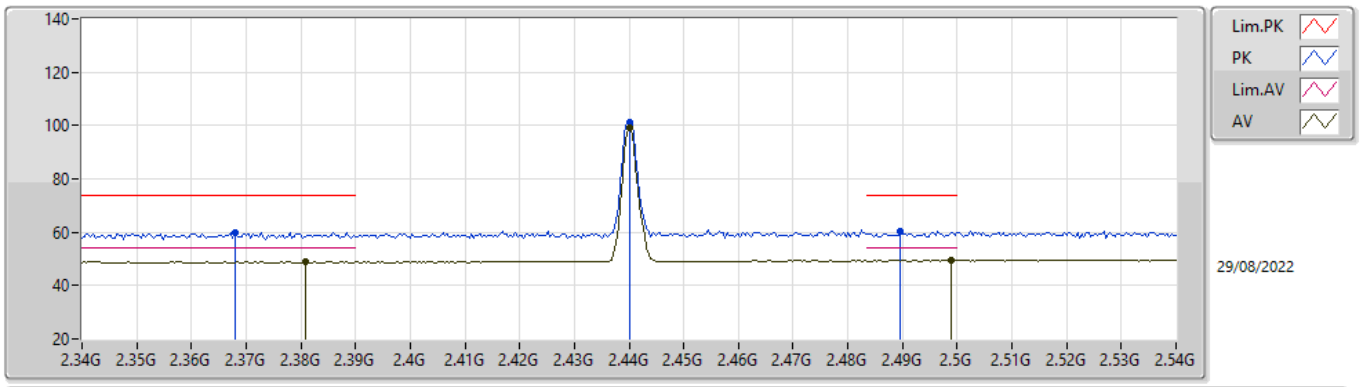
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80018G	32.60	54.00	-21.40	7.97	3	Horizontal	254	1.50	-	24.63	32.50	9.67	34.20
PK	4.80168G	45.39	74.00	-28.61	7.97	3	Horizontal	254	1.50	-	37.42	32.50	9.67	34.20

BT-LE(125kbps)

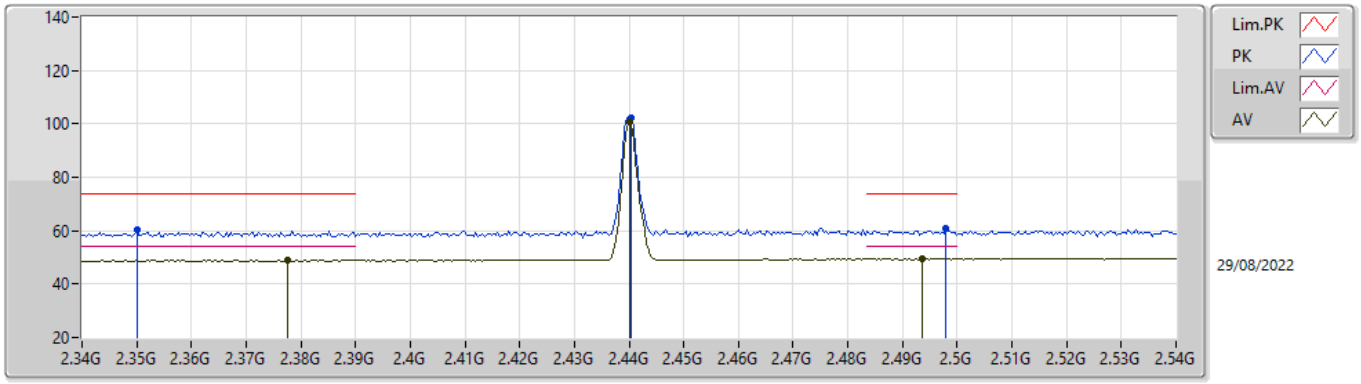
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3808G	48.91	54.00	-5.09	35.54	3	Vertical	126	3.00	-	13.37	27.26	8.28	-
AV	2.44G	99.37	Inf	-Inf	35.78	3	Vertical	126	3.00	-	63.59	27.46	8.32	-
AV	2.4988G	49.54	54.00	-4.46	36.14	3	Vertical	126	3.00	-	13.40	27.79	8.35	-
PK	2.368G	59.94	74.00	-14.06	35.51	3	Vertical	126	3.00	-	24.43	27.24	8.27	-
PK	2.44G	101.02	Inf	-Inf	35.78	3	Vertical	126	3.00	-	65.24	27.46	8.32	-
PK	2.4896G	60.37	74.00	-13.63	36.09	3	Vertical	126	3.00	-	24.28	27.74	8.35	-

BT-LE(125kbps)

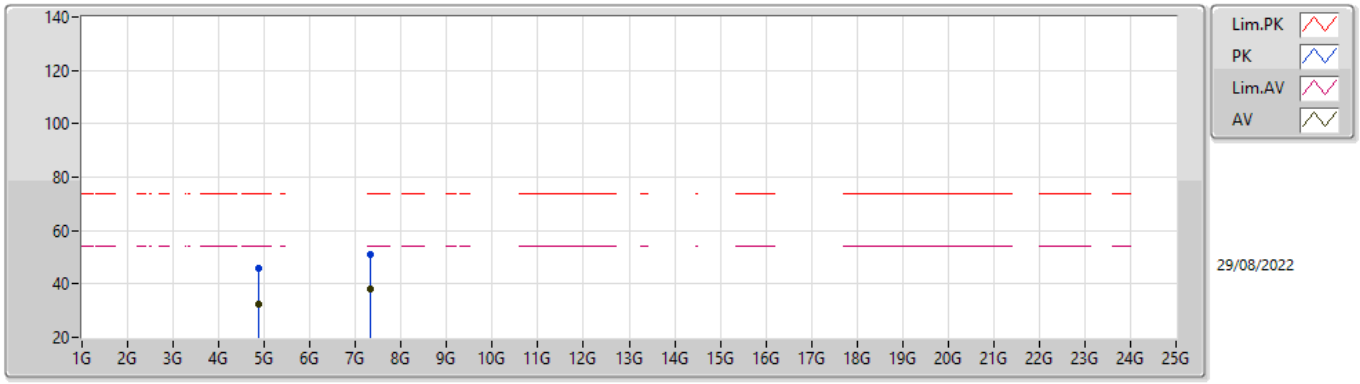
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3776G	48.85	54.00	-5.15	35.53	3	Horizontal	299	1.09	-	13.32	27.26	8.27	-
AV	2.44G	100.66	Inf	-Inf	35.78	3	Horizontal	299	1.09	-	64.88	27.46	8.32	-
AV	2.4936G	49.43	54.00	-4.57	36.11	3	Horizontal	299	1.09	-	13.32	27.76	8.35	-
PK	2.35G	60.55	74.00	-13.45	35.45	3	Horizontal	299	1.09	-	25.10	27.20	8.25	-
PK	2.4404G	102.34	Inf	-Inf	35.78	3	Horizontal	299	1.09	-	66.56	27.46	8.32	-
PK	2.498G	60.94	74.00	-13.06	36.14	3	Horizontal	299	1.09	-	24.80	27.79	8.35	-

BT-LE(125kbps)

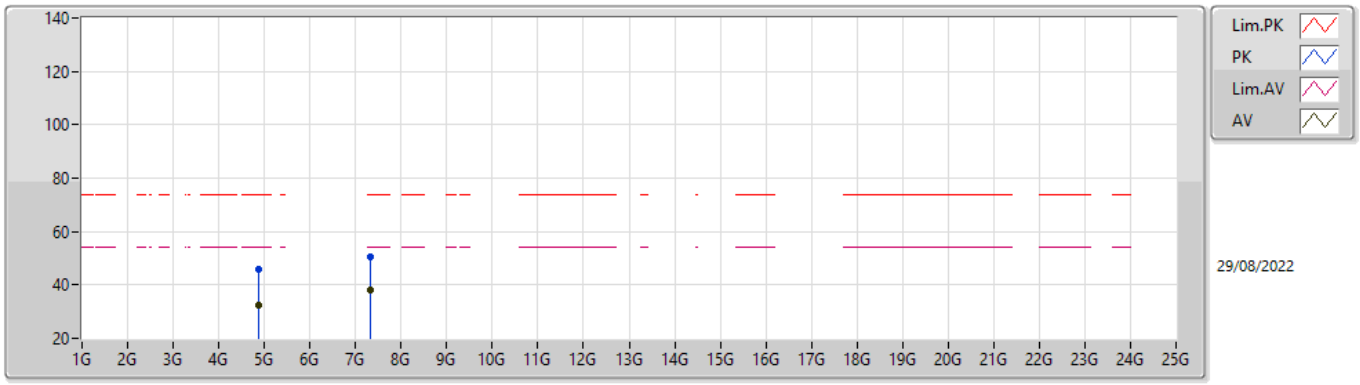
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.88038G	32.57	54.00	-21.43	8.20	3	Vertical	144	1.50	-	24.37	32.66	9.70	34.16
AV	7.32428G	38.03	54.00	-15.97	13.47	3	Vertical	134	1.50	-	24.56	36.65	11.32	34.50
PK	4.87838G	45.70	74.00	-28.30	8.20	3	Vertical	144	1.50	-	37.50	32.66	9.70	34.16
PK	7.31606G	51.29	74.00	-22.71	13.45	3	Vertical	134	1.50	-	37.84	36.63	11.32	34.50

BT-LE(125kbps)

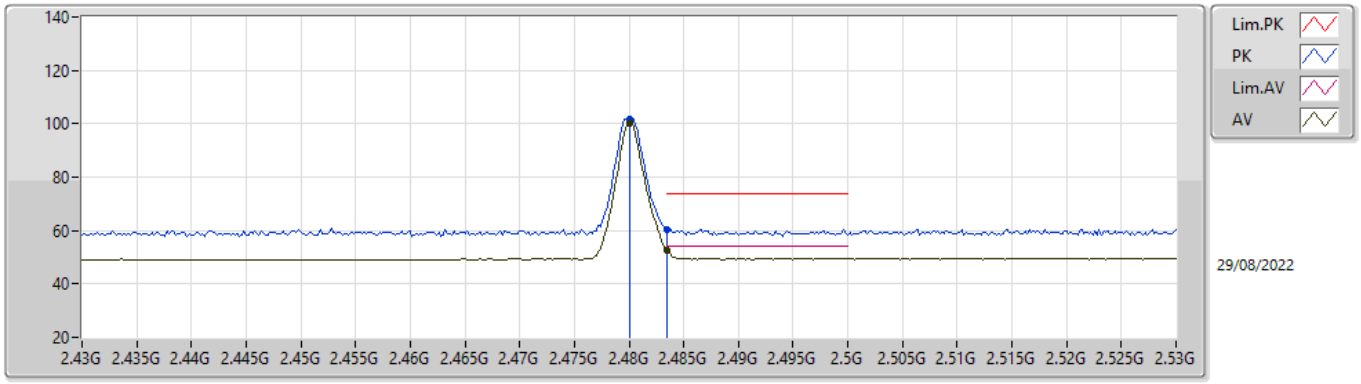
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87602G	32.53	54.00	-21.47	8.19	3	Horizontal	360	1.50	-	24.34	32.65	9.70	34.16
AV	7.32162G	38.06	54.00	-15.94	13.46	3	Horizontal	44	1.32	-	24.60	36.64	11.32	34.50
PK	4.87994G	45.94	74.00	-28.06	8.20	3	Horizontal	360	1.50	-	37.74	32.66	9.70	34.16
PK	7.31712G	50.51	74.00	-23.49	13.45	3	Horizontal	44	1.32	-	37.06	36.63	11.32	34.50

BT-LE(125kbps)

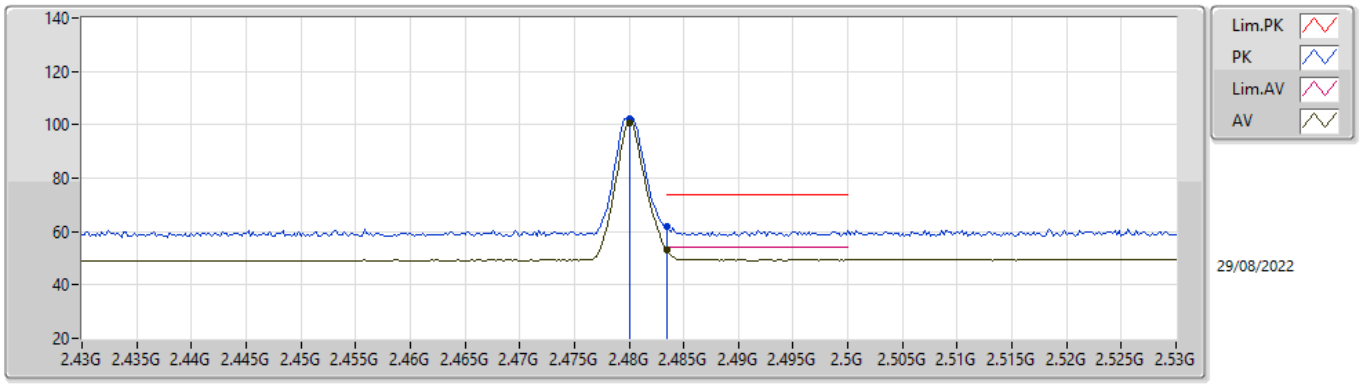
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	100.23	Inf	-Inf	36.02	3	Vertical	127	2.92	-	64.21	27.68	8.34	-
AV	2.4835G	52.79	54.00	-1.21	36.04	3	Vertical	127	2.92	-	16.75	27.70	8.34	-
PK	2.48G	101.98	Inf	-Inf	36.02	3	Vertical	127	2.92	-	65.96	27.68	8.34	-
PK	2.4835G	60.58	74.00	-13.42	36.04	3	Vertical	127	2.92	-	24.54	27.70	8.34	-

BT-LE(125kbps)

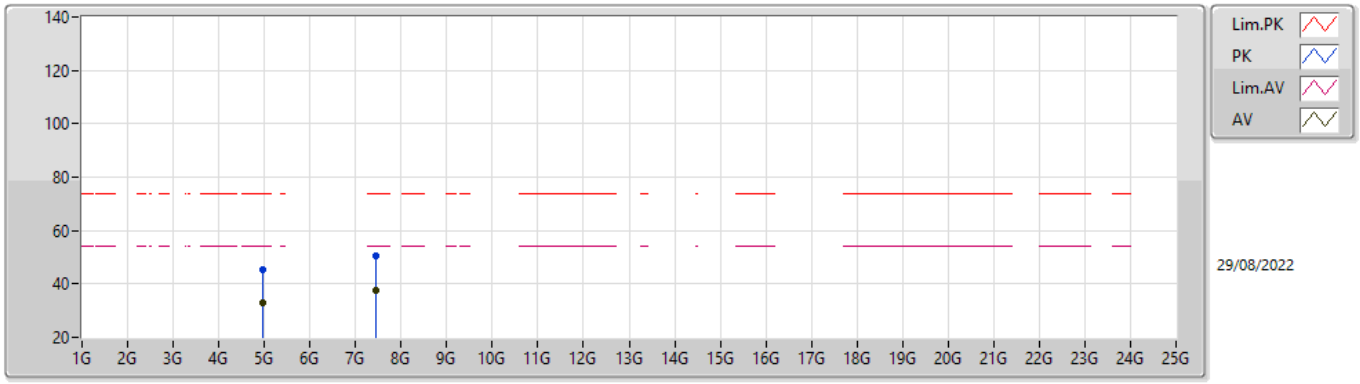
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	100.70	Inf	-Inf	36.02	3	Horizontal	43	1.50	-	64.68	27.68	8.34	-
AV	2.4835G	53.11	54.00	-0.89	36.04	3	Horizontal	43	1.50	-	17.07	27.70	8.34	-
PK	2.48G	102.37	Inf	-Inf	36.02	3	Horizontal	43	1.50	-	66.35	27.68	8.34	-
PK	2.4835G	62.11	74.00	-11.89	36.04	3	Horizontal	43	1.50	-	26.07	27.70	8.34	-

BT-LE(125kbps)

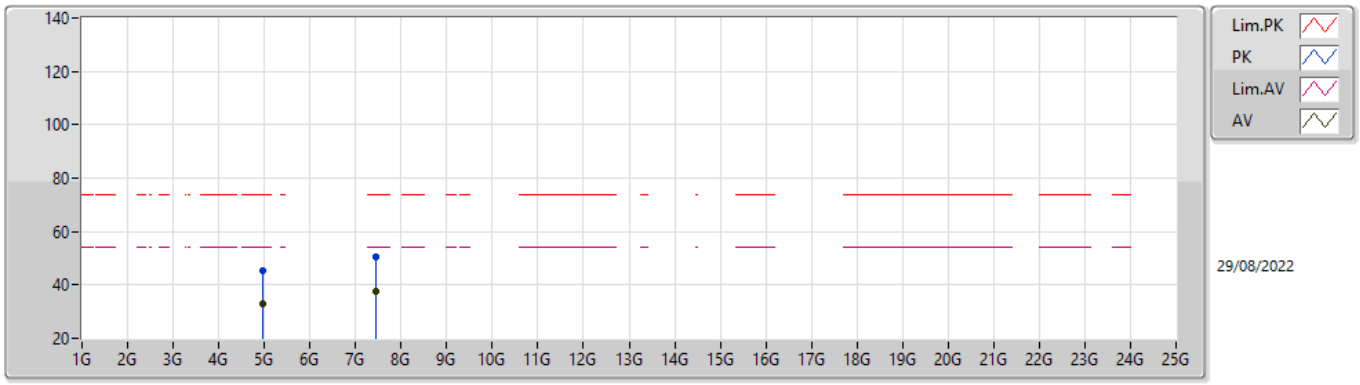
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9563G	32.73	54.00	-21.27	8.54	3	Vertical	221	2.68	-	24.19	32.93	9.73	34.12
AV	7.43714G	37.57	54.00	-16.43	13.06	3	Vertical	164	1.36	-	24.51	36.25	11.30	34.49
PK	4.95896G	45.30	74.00	-28.70	8.55	3	Vertical	221	2.68	-	36.75	32.94	9.73	34.12
PK	7.43674G	50.52	74.00	-23.48	13.06	3	Vertical	164	1.36	-	37.46	36.25	11.30	34.49

BT-LE(125kbps)

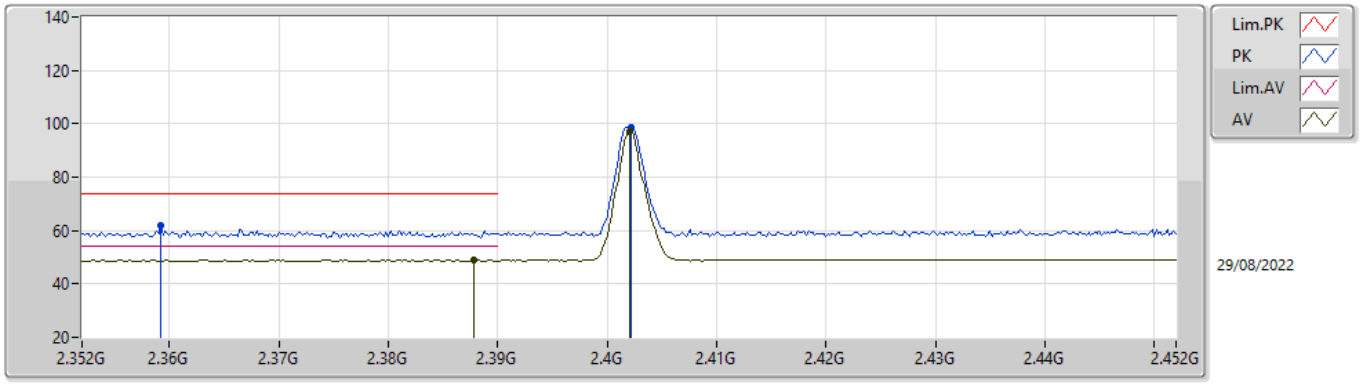
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95544G	32.78	54.00	-21.22	8.53	3	Horizontal	21	1.31	-	24.25	32.92	9.73	34.12
AV	7.43508G	37.54	54.00	-16.46	13.07	3	Horizontal	331	1.16	-	24.47	36.26	11.30	34.49
PK	4.9641G	45.31	74.00	-28.69	8.58	3	Horizontal	21	1.31	-	36.73	32.96	9.74	34.12
PK	7.436G	50.74	74.00	-23.26	13.07	3	Horizontal	331	1.16	-	37.67	36.26	11.30	34.49

BT-LE(500kbps)

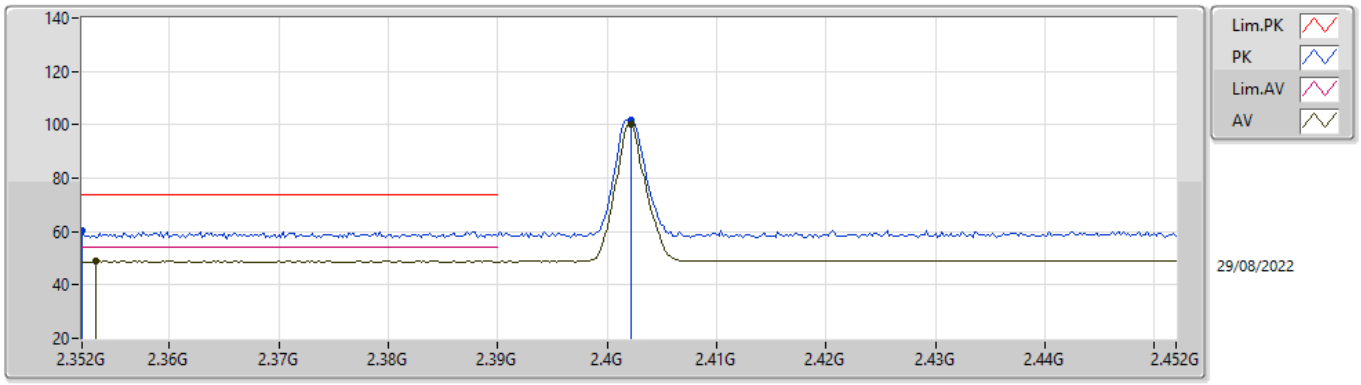
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3878G	48.92	54.00	-5.08	35.56	3	Vertical	174	2.77	-	13.36	27.28	8.28	-
AV	2.402G	96.84	Inf	-Inf	35.60	3	Vertical	174	2.77	-	61.24	27.31	8.29	-
PK	2.3592G	61.88	74.00	-12.12	35.48	3	Vertical	174	2.77	-	26.40	27.22	8.26	-
PK	2.4022G	98.49	Inf	-Inf	35.60	3	Vertical	174	2.77	-	62.89	27.31	8.29	-

BT-LE(500kbps)

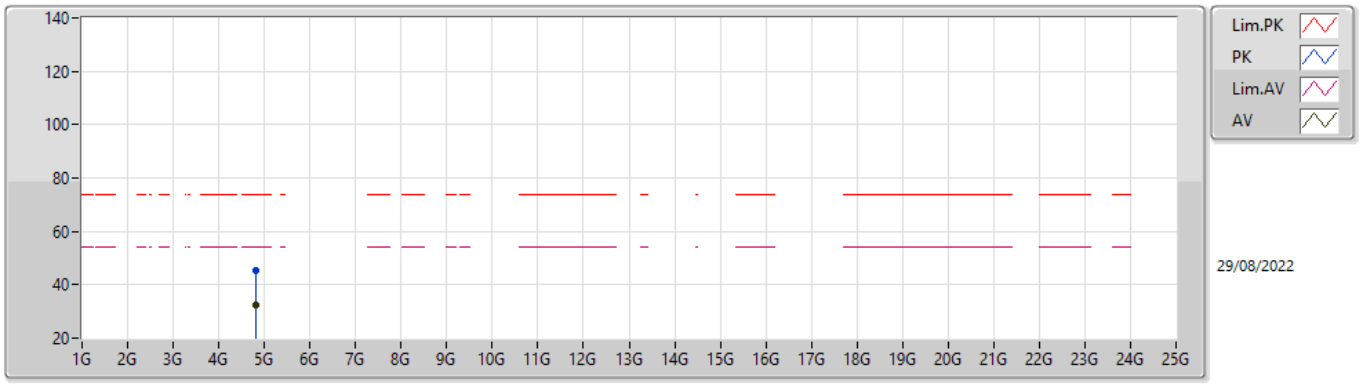
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3532G	48.96	54.00	-5.04	35.46	3	Horizontal	74	1.25	-	13.50	27.21	8.25	-
AV	2.4022G	100.12	Inf	-Inf	35.60	3	Horizontal	74	1.25	-	64.52	27.31	8.29	-
PK	2.352G	60.60	74.00	-13.40	35.45	3	Horizontal	74	1.25	-	25.15	27.20	8.25	-
PK	2.4022G	101.70	Inf	-Inf	35.60	3	Horizontal	74	1.25	-	66.10	27.31	8.29	-

BT-LE(500kbps)

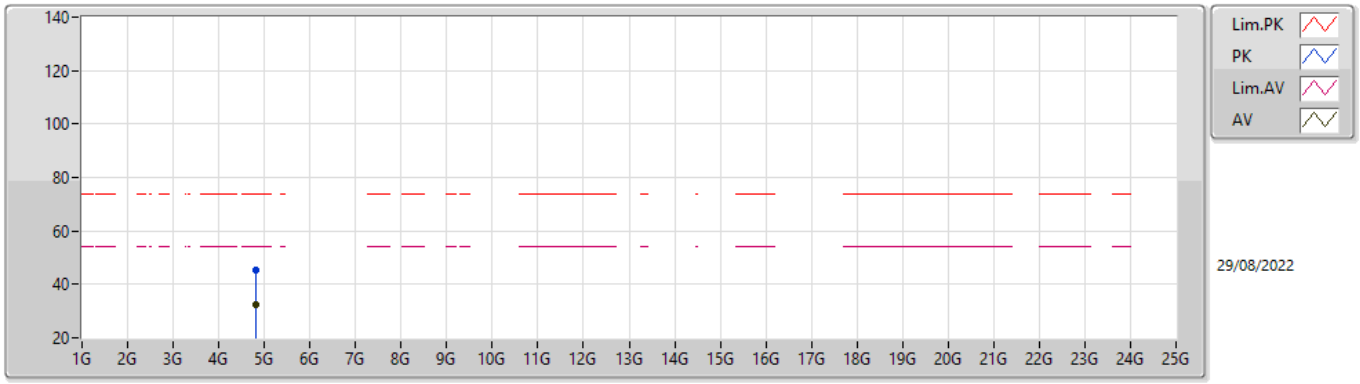
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80006G	32.48	54.00	-21.52	7.97	3	Vertical	77	2.15	-	24.51	32.50	9.67	34.20
PK	4.80664G	45.22	74.00	-28.78	7.99	3	Vertical	77	2.15	-	37.23	32.51	9.67	34.19

BT-LE(500kbps)

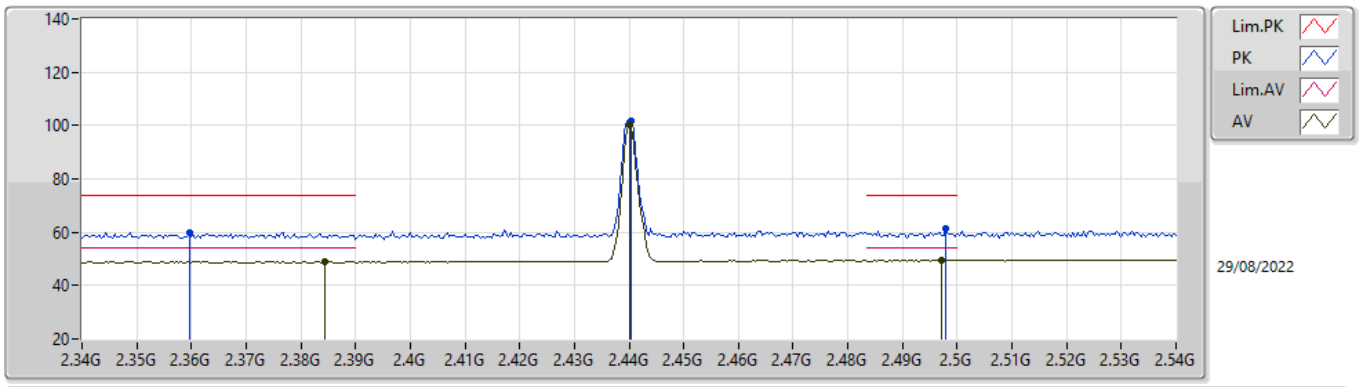
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80088G	32.43	54.00	-21.57	7.97	3	Horizontal	263	1.50	-	24.46	32.50	9.67	34.20
PK	4.804G	45.51	74.00	-28.49	7.99	3	Horizontal	263	1.50	-	37.52	32.51	9.67	34.19

BT-LE(500kbps)

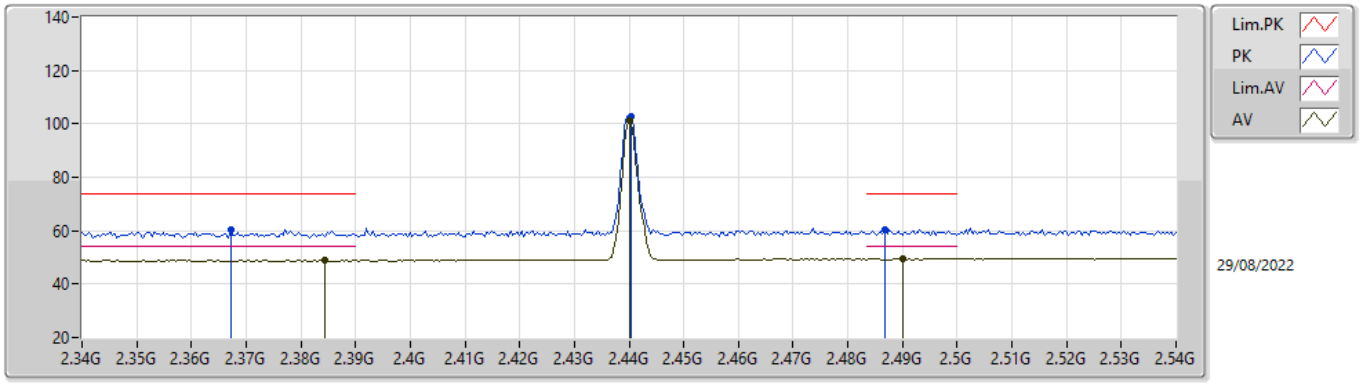
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3844G	48.93	54.00	-5.07	35.55	3	Vertical	125	3.00	-	13.38	27.27	8.28	-
AV	2.44G	100.17	Inf	-Inf	35.78	3	Vertical	125	3.00	-	64.39	27.46	8.32	-
AV	2.4972G	49.51	54.00	-4.49	36.13	3	Vertical	125	3.00	-	13.38	27.78	8.35	-
PK	2.3596G	60.04	74.00	-13.96	35.48	3	Vertical	125	3.00	-	24.56	27.22	8.26	-
PK	2.4404G	101.76	Inf	-Inf	35.78	3	Vertical	125	3.00	-	65.98	27.46	8.32	-
PK	2.498G	61.42	74.00	-12.58	36.14	3	Vertical	125	3.00	-	25.28	27.79	8.35	-

BT-LE(500kbps)

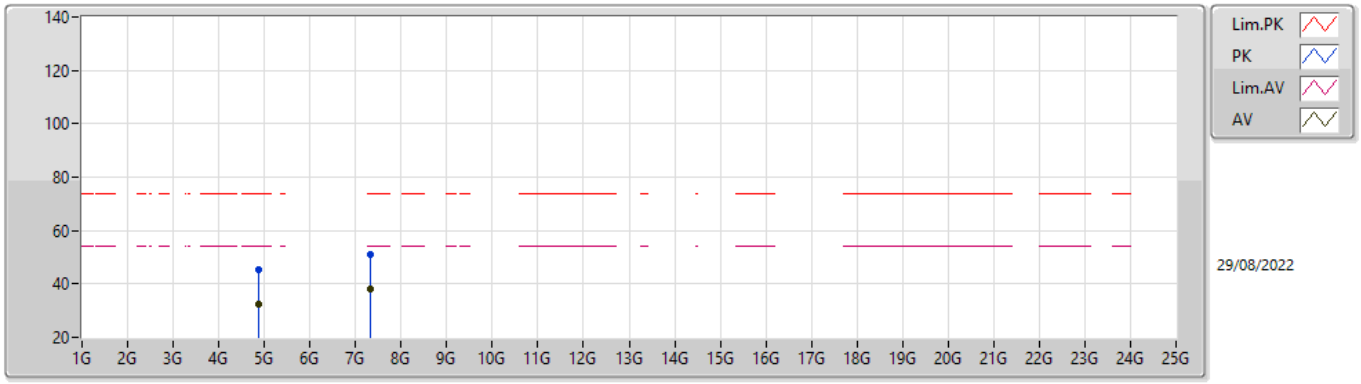
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3844G	48.90	54.00	-5.10	35.55	3	Horizontal	302	1.02	-	13.35	27.27	8.28	-
AV	2.44G	101.28	Inf	-Inf	35.78	3	Horizontal	302	1.02	-	65.50	27.46	8.32	-
AV	2.49G	49.47	54.00	-4.53	36.09	3	Horizontal	302	1.02	-	13.38	27.74	8.35	-
PK	2.3672G	60.22	74.00	-13.78	35.50	3	Horizontal	302	1.02	-	24.72	27.23	8.27	-
PK	2.4404G	102.81	Inf	-Inf	35.78	3	Horizontal	302	1.02	-	67.03	27.46	8.32	-
PK	2.4868G	60.29	74.00	-13.71	36.07	3	Horizontal	302	1.02	-	24.22	27.72	8.35	-

BT-LE(500kbps)

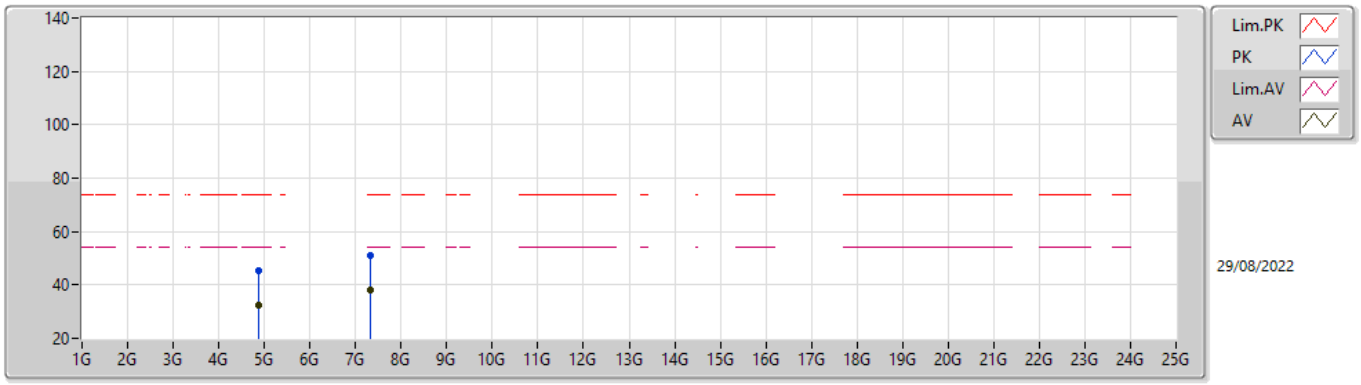
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87974G	32.61	54.00	-21.39	8.20	3	Vertical	360	1.50	-	24.41	32.66	9.70	34.16
AV	7.32414G	38.20	54.00	-15.80	13.47	3	Vertical	242	1.50	-	24.73	36.65	11.32	34.50
PK	4.87634G	45.43	74.00	-28.57	8.19	3	Vertical	360	1.50	-	37.24	32.65	9.70	34.16
PK	7.32276G	51.25	74.00	-22.75	13.47	3	Vertical	242	1.50	-	37.78	36.65	11.32	34.50

BT-LE(500kbps)

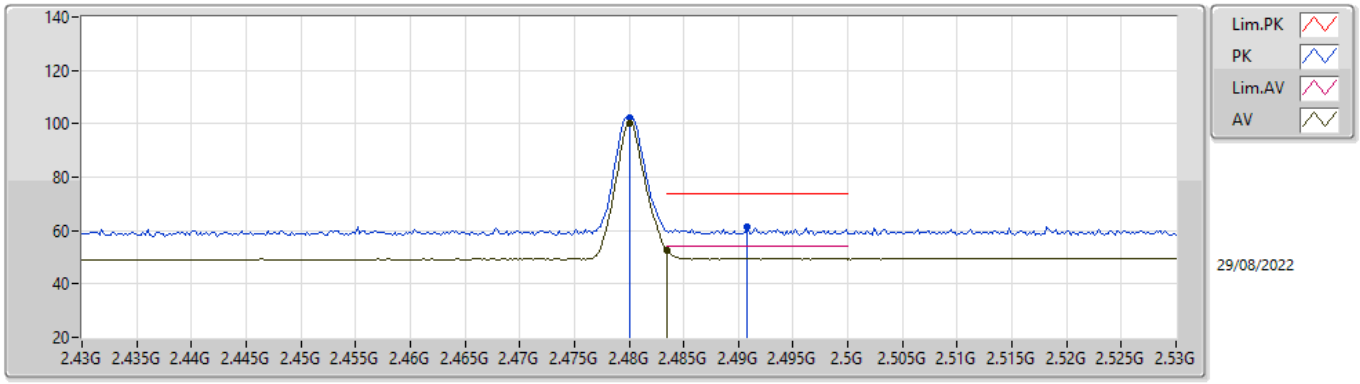
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8785G	32.67	54.00	-21.33	8.20	3	Horizontal	360	1.50	-	24.47	32.66	9.70	34.16
AV	7.32476G	38.27	54.00	-15.73	13.47	3	Horizontal	11	1.50	-	24.80	36.65	11.32	34.50
PK	4.88048G	45.41	74.00	-28.59	8.20	3	Horizontal	360	1.50	-	37.21	32.66	9.70	34.16
PK	7.31992G	51.14	74.00	-22.86	13.46	3	Horizontal	11	1.50	-	37.68	36.64	11.32	34.50

BT-LE(500kbps)

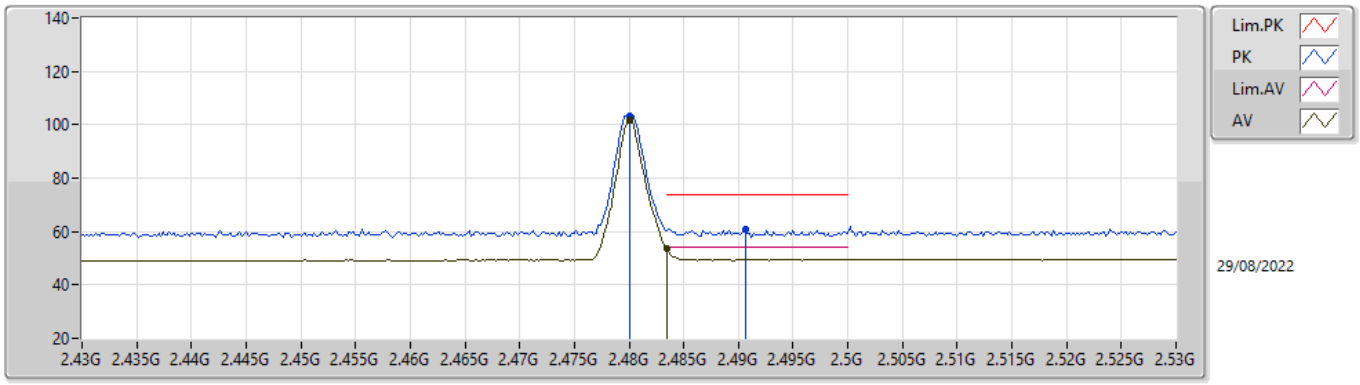
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	100.37	Inf	-Inf	36.02	3	Vertical	111	2.92	-	64.35	27.68	8.34	-
AV	2.4835G	52.76	54.00	-1.24	36.04	3	Vertical	111	2.92	-	16.72	27.70	8.34	-
PK	2.48G	102.06	Inf	-Inf	36.02	3	Vertical	111	2.92	-	66.04	27.68	8.34	-
PK	2.4908G	61.14	74.00	-12.86	36.09	3	Vertical	111	2.92	-	25.05	27.74	8.35	-

BT-LE(500kbps)

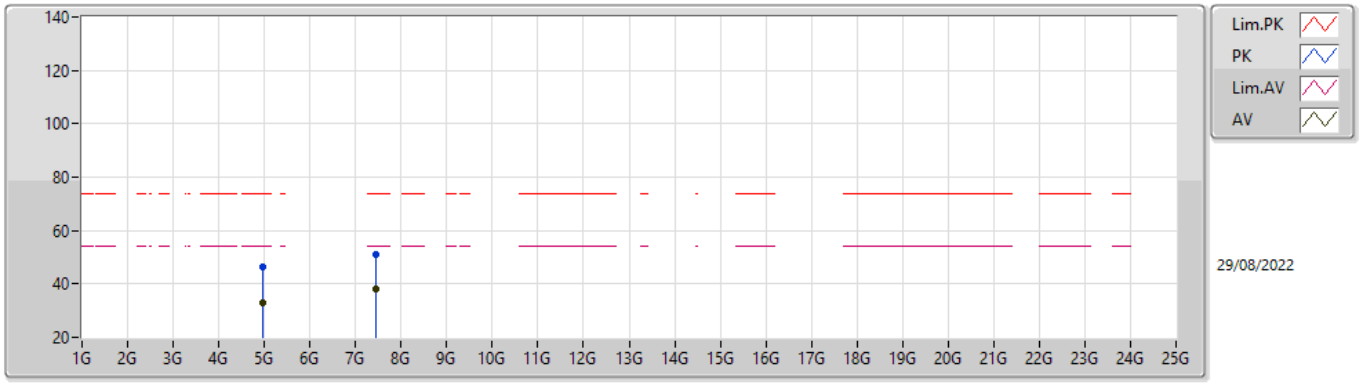
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	101.59	Inf	-Inf	36.02	3	Horizontal	40	1.48	-	65.57	27.68	8.34	-
AV	2.4835G	53.63	54.00	-0.37	36.04	3	Horizontal	40	1.48	-	17.59	27.70	8.34	-
PK	2.48G	103.41	Inf	-Inf	36.02	3	Horizontal	40	1.48	-	67.39	27.68	8.34	-
PK	2.4906G	60.71	74.00	-13.29	36.09	3	Horizontal	40	1.48	-	24.62	27.74	8.35	-

BT-LE(500kbps)

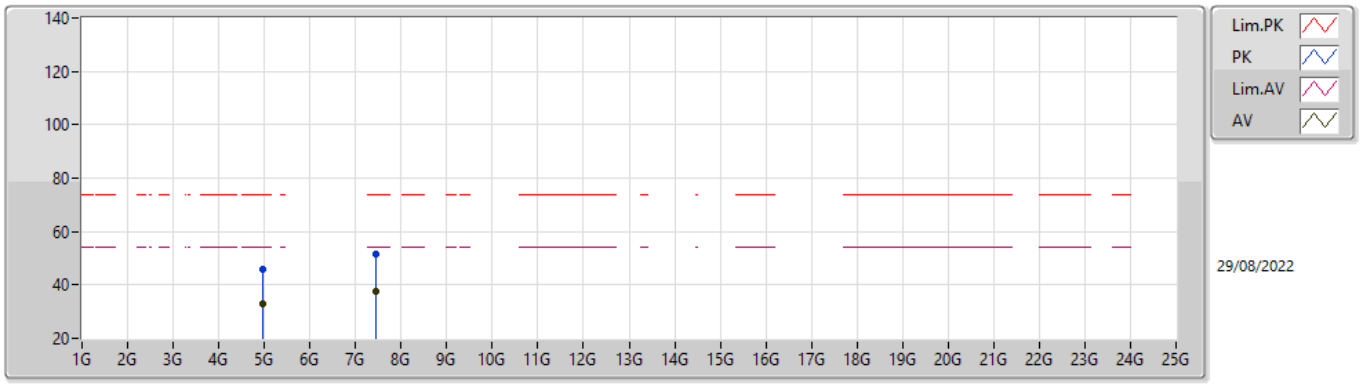
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95584G	32.98	54.00	-21.02	8.53	3	Vertical	112	1.50	-	24.45	32.92	9.73	34.12
AV	7.43584G	38.07	54.00	-15.93	13.07	3	Vertical	360	2.03	-	25.00	36.26	11.30	34.49
PK	4.96322G	46.19	74.00	-27.81	8.57	3	Vertical	112	1.50	-	37.62	32.95	9.74	34.12
PK	7.43698G	51.18	74.00	-22.82	13.06	3	Vertical	360	2.03	-	38.12	36.25	11.30	34.49

BT-LE(500kbps)

2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95808G	32.92	54.00	-21.08	8.54	3	Horizontal	298	1.57	-	24.38	32.93	9.73	34.12
AV	7.43568G	37.84	54.00	-16.16	13.07	3	Horizontal	243	1.50	-	24.77	36.26	11.30	34.49
PK	4.95586G	45.95	74.00	-28.05	8.53	3	Horizontal	298	1.57	-	37.42	32.92	9.73	34.12
PK	7.44134G	51.48	74.00	-22.52	13.04	3	Horizontal	243	1.50	-	38.44	36.23	11.30	34.49

Summary

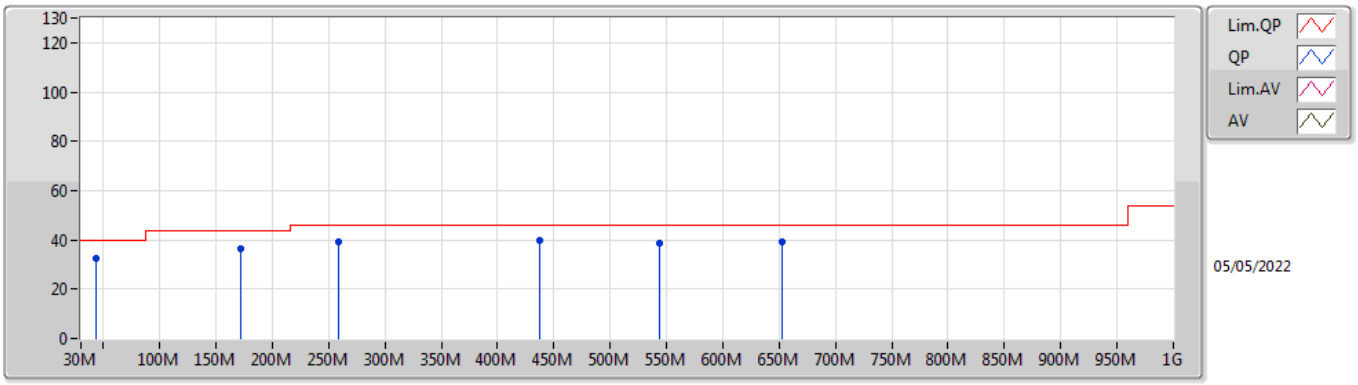
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	437.4M	39.87	46.00	-6.13	3	Vertical	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	43.58M	32.25	40.00	-7.75	3	Vertical	360	1.00	-
2440MHz	Pass	PK	171.62M	36.59	43.50	-6.91	3	Vertical	360	1.00	-
2440MHz	Pass	PK	258.92M	39.21	46.00	-6.79	3	Vertical	360	1.00	-
2440MHz	Pass	PK	437.4M	39.87	46.00	-6.13	3	Vertical	360	1.00	-
2440MHz	Pass	PK	544.1M	38.52	46.00	-7.48	3	Vertical	360	1.00	-
2440MHz	Pass	PK	652.74M	39.00	46.00	-7.00	3	Vertical	360	1.00	-
2440MHz	Pass	PK	45.52M	28.77	40.00	-11.23	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	158.04M	35.56	43.50	-7.94	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	258.92M	37.54	46.00	-8.46	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	398.6M	38.48	46.00	-7.52	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	485.9M	37.64	46.00	-8.36	3	Horizontal	0	1.00	-
2440MHz	Pass	QP	652.74M	39.72	46.00	-6.28	3	Horizontal	182	1.78	-
2440MHz	Pass	PK	9.846k	61.36	127.72	-66.36	3	Vertical	360	1.00	-
2440MHz	Pass	PK	35.226k	60.78	116.65	-55.87	3	Vertical	360	1.00	-
2440MHz	Pass	PK	111.648k	50.98	106.63	-55.65	3	Vertical	360	1.00	-
2440MHz	Pass	PK	388.8k	57.14	95.80	-38.66	3	Vertical	0	1.00	-
2440MHz	Pass	PK	926.1k	46.69	68.28	-21.59	3	Vertical	0	1.00	-
2440MHz	Pass	PK	5.165M	42.07	69.50	-27.43	3	Vertical	0	1.00	-

BT-LE(2Mbps)

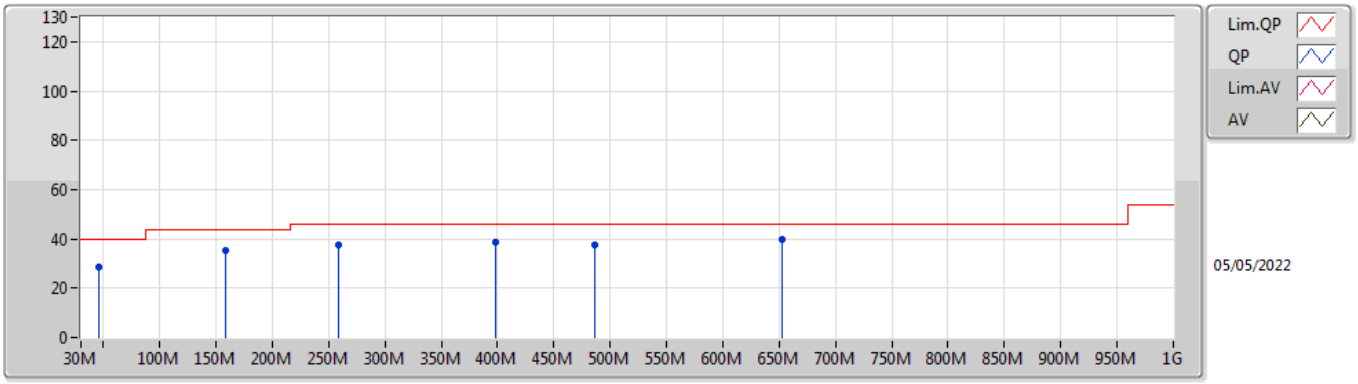
2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	43.58M	32.25	40.00	-7.75	-10.66	3	Vertical	360	1.00	-	42.91	15.82	1.03	27.51
PK	171.62M	36.59	43.50	-6.91	-10.81	3	Vertical	360	1.00	-	47.40	14.82	1.86	27.49
PK	258.92M	39.21	46.00	-6.79	-6.09	3	Vertical	360	1.00	-	45.30	18.64	2.30	27.03
PK	437.4M	39.87	46.00	-6.13	-3.20	3	Vertical	360	1.00	-	43.07	21.77	3.03	28.00
PK	544.1M	38.52	46.00	-7.48	-1.40	3	Vertical	360	1.00	-	39.92	23.52	3.40	28.32
PK	652.74M	39.00	46.00	-7.00	-0.31	3	Vertical	360	1.00	-	39.31	24.18	3.71	28.20

BT-LE(2Mbps)

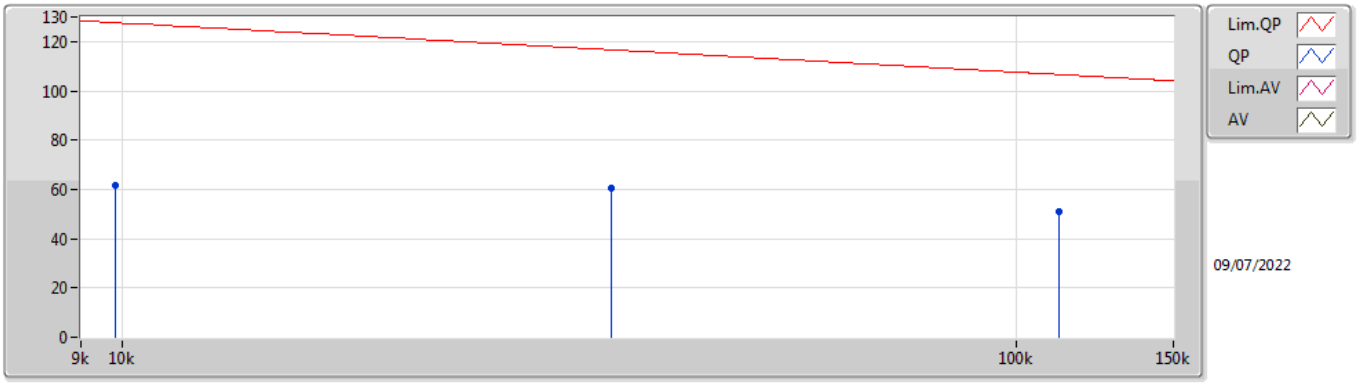
2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	45.52M	28.77	40.00	-11.23	-11.58	3	Horizontal	0	1.00	-	40.35	14.97	1.03	27.58
PK	158.04M	35.56	43.50	-7.94	-10.44	3	Horizontal	0	1.00	-	46.00	15.32	1.77	27.53
PK	258.92M	37.54	46.00	-8.46	-6.09	3	Horizontal	0	1.00	-	43.63	18.64	2.30	27.03
PK	398.6M	38.48	46.00	-7.52	-3.97	3	Horizontal	0	1.00	-	42.45	20.92	2.88	27.77
PK	485.9M	37.64	46.00	-8.36	-2.28	3	Horizontal	0	1.00	-	39.92	22.74	3.25	28.27
QP	652.74M	39.72	46.00	-6.28	-0.31	3	Horizontal	182	1.78	-	40.03	24.18	3.71	28.20

BT-LE(2Mbps)

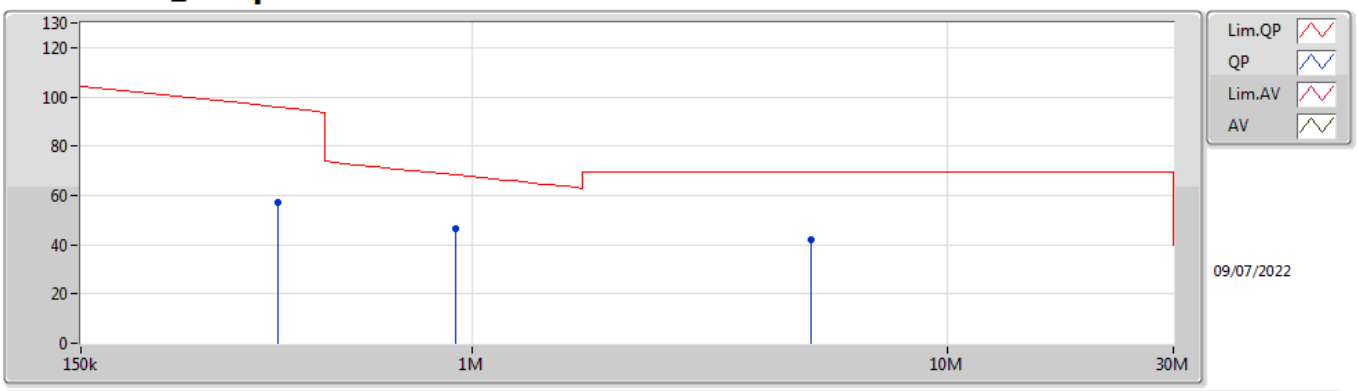
2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	9.846k	61.36	127.72	-66.36	19.14	3	Vertical	360	1.00	-	42.22	18.96	0.18	-
PK	35.226k	60.78	116.65	-55.87	21.59	3	Vertical	360	1.00	-	39.19	21.35	0.24	-
PK	111.648k	50.98	106.63	-55.65	20.04	3	Vertical	360	1.00	-	30.94	19.75	0.29	-

BT-LE(2Mbps)

2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	388.8k	57.14	95.80	-38.66	20.50	3	Vertical	0	1.00	-	36.64	20.20	0.30	-
PK	926.1k	46.69	68.28	-21.59	20.66	3	Vertical	0	1.00	-	26.03	20.29	0.37	-
PK	5.165M	42.07	69.50	-27.43	20.99	3	Vertical	0	1.00	-	21.08	20.38	0.61	-

Summary

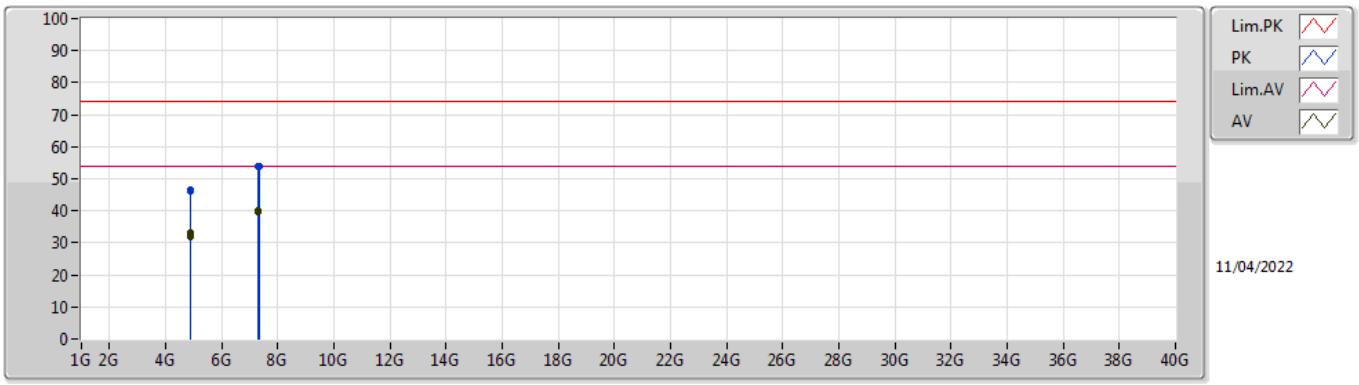
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	7.31776G	40.10	54.00	-13.90	Horizontal
Mode 2	Pass	AV	15.6027G	47.48	54.00	-6.52	Vertical
Mode 3	Pass	AV	7.31754G	38.06	54.00	-15.94	Vertical
Mode 4	Pass	AV	15.59356G	47.81	54.00	-6.19	Vertical

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.87395G	33.19	54.00	-20.81	3	Vertical	113	1.50	-
Mode 1	Pass	AV	4.88047G	31.80	54.00	-22.20	3	Vertical	216	1.50	-
Mode 1	Pass	AV	7.31179G	39.48	54.00	-14.52	3	Vertical	160	2.50	-
Mode 1	Pass	AV	7.31894G	39.88	54.00	-14.12	3	Vertical	219	1.50	-
Mode 1	Pass	PK	4.87384G	46.76	74.00	-27.24	3	Vertical	113	1.50	-
Mode 1	Pass	PK	4.8797G	46.16	74.00	-27.84	3	Vertical	216	1.50	-
Mode 1	Pass	PK	7.31024G	53.90	74.00	-20.10	3	Vertical	160	2.50	-
Mode 1	Pass	PK	7.32189G	54.00	74.00	-20.00	3	Vertical	219	1.50	-
Mode 1	Pass	AV	4.87409G	32.78	54.00	-21.22	3	Horizontal	360	2.50	-
Mode 1	Pass	AV	4.88052G	33.89	54.00	-20.11	3	Horizontal	94	1.65	-
Mode 1	Pass	AV	7.31298G	39.16	54.00	-14.84	3	Horizontal	294	1.50	-
Mode 1	Pass	AV	7.31776G	40.10	54.00	-13.90	3	Horizontal	360	1.50	-
Mode 1	Pass	PK	4.87379G	46.39	74.00	-27.61	3	Horizontal	360	2.50	-
Mode 1	Pass	PK	4.88116G	47.52	74.00	-26.48	3	Horizontal	94	1.65	-
Mode 1	Pass	PK	7.31109G	53.13	74.00	-20.87	3	Horizontal	294	1.50	-
Mode 1	Pass	PK	7.32078G	53.22	74.00	-20.78	3	Horizontal	360	1.50	-
Mode 2	Pass	AV	4.87984G	31.66	54.00	-22.34	3	Vertical	113	1.50	-
Mode 2	Pass	AV	7.31994G	43.99	54.00	-10.01	3	Vertical	0	2.50	-
Mode 2	Pass	AV	15.6027G	47.48	54.00	-6.52	3	Vertical	55	1.48	-
Mode 2	Pass	PK	4.87796G	40.67	74.00	-33.33	3	Vertical	113	1.50	-
Mode 2	Pass	PK	7.31942G	50.77	74.00	-23.23	3	Vertical	0	2.50	-
Mode 2	Pass	PK	10.39816G	55.09	68.20	-13.11	3	Vertical	360	1.50	-
Mode 2	Pass	PK	15.59672G	58.40	74.00	-15.60	3	Vertical	55	1.48	-
Mode 2	Pass	AV	4.88004G	37.07	54.00	-16.93	3	Horizontal	20	1.21	-
Mode 2	Pass	AV	7.32G	42.73	54.00	-11.27	3	Horizontal	2	1.07	-
Mode 2	Pass	AV	15.60132G	47.47	54.00	-6.53	3	Horizontal	150	1.50	-
Mode 2	Pass	PK	4.87992G	42.56	74.00	-31.44	3	Horizontal	20	1.21	-
Mode 2	Pass	PK	7.3204G	49.73	74.00	-24.27	3	Horizontal	2	1.07	-
Mode 2	Pass	PK	10.40322G	55.42	68.20	-12.78	3	Horizontal	34	1.50	-
Mode 2	Pass	PK	15.6034G	60.80	74.00	-13.20	3	Horizontal	150	1.50	-
Mode 3	Pass	AV	4.87256G	30.42	54.00	-23.58	3	Vertical	62	2.08	-
Mode 3	Pass	AV	4.87976G	30.46	54.00	-23.54	3	Vertical	273	2.01	-
Mode 3	Pass	AV	7.3133G	36.87	54.00	-17.13	3	Vertical	333	1.50	-
Mode 3	Pass	AV	7.31754G	38.06	54.00	-15.94	3	Vertical	163	1.50	-
Mode 3	Pass	PK	4.87369G	44.46	74.00	-29.54	3	Vertical	62	2.08	-
Mode 3	Pass	PK	4.87998G	44.57	74.00	-29.43	3	Vertical	273	2.01	-
Mode 3	Pass	PK	7.30694G	50.80	74.00	-23.20	3	Vertical	333	1.50	-
Mode 3	Pass	PK	7.3223G	50.48	74.00	-23.52	3	Vertical	163	1.50	-
Mode 3	Pass	AV	4.87545G	30.41	54.00	-23.59	3	Horizontal	326	1.50	-
Mode 3	Pass	AV	4.87977G	31.70	54.00	-22.30	3	Horizontal	272	1.50	-
Mode 3	Pass	AV	7.31265G	36.81	54.00	-17.19	3	Horizontal	45	1.50	-
Mode 3	Pass	AV	7.32062G	38.03	54.00	-15.97	3	Horizontal	294	2.24	-
Mode 3	Pass	PK	4.87478G	44.81	74.00	-29.19	3	Horizontal	326	1.50	-
Mode 3	Pass	PK	4.88011G	44.64	74.00	-29.36	3	Horizontal	272	1.50	-
Mode 3	Pass	PK	7.31344G	50.90	74.00	-23.10	3	Horizontal	45	1.50	-
Mode 3	Pass	PK	7.31895G	51.03	74.00	-22.97	3	Horizontal	294	2.24	-
Mode 4	Pass	AV	4.876G	31.61	54.00	-22.39	3	Vertical	0	1.44	-
Mode 4	Pass	AV	7.3203G	39.74	54.00	-14.26	3	Vertical	107	1.05	-
Mode 4	Pass	AV	15.59356G	47.81	54.00	-6.19	3	Vertical	98	1.00	-
Mode 4	Pass	PK	4.8831G	45.30	74.00	-28.70	3	Vertical	0	1.44	-

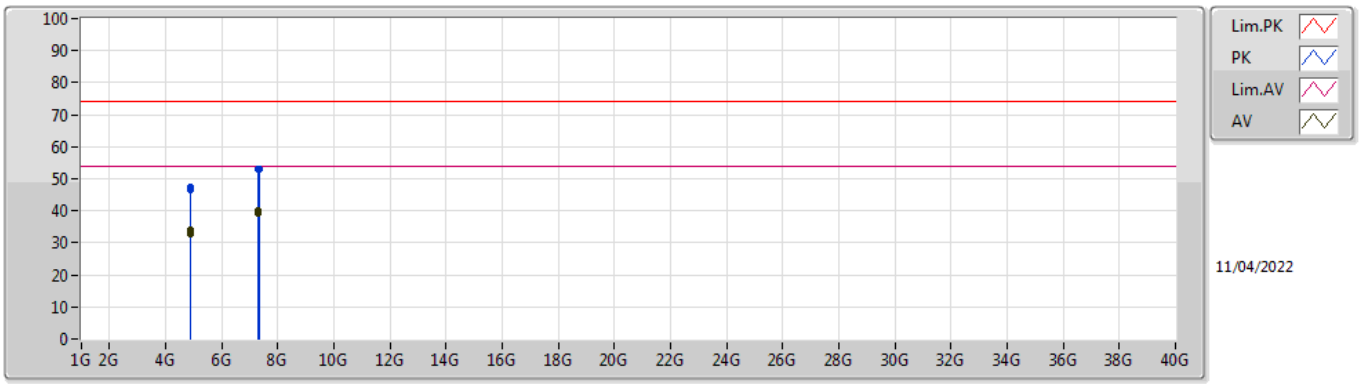
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 4	Pass	PK	7.32022G	51.57	74.00	-22.43	3	Vertical	107	1.05	-
Mode 4	Pass	PK	10.3926G	55.10	68.20	-13.10	3	Vertical	204	1.50	-
Mode 4	Pass	PK	15.59852G	56.51	74.00	-17.49	3	Vertical	98	1.00	-
Mode 4	Pass	AV	4.875G	31.64	54.00	-22.36	3	Horizontal	156	1.24	-
Mode 4	Pass	AV	7.31966G	40.32	54.00	-13.68	3	Horizontal	16	1.00	-
Mode 4	Pass	AV	15.59136G	47.76	54.00	-6.24	3	Horizontal	268	1.55	-
Mode 4	Pass	PK	4.87568G	45.55	74.00	-28.45	3	Horizontal	156	1.24	-
Mode 4	Pass	PK	7.31962G	51.63	74.00	-22.37	3	Horizontal	16	1.00	-
Mode 4	Pass	PK	10.39944G	54.17	68.20	-14.03	3	Horizontal	303	1.50	-
Mode 4	Pass	PK	15.59764G	57.17	74.00	-16.83	3	Horizontal	268	1.55	-

Radiated Emissions above 1GHz_Mode 1



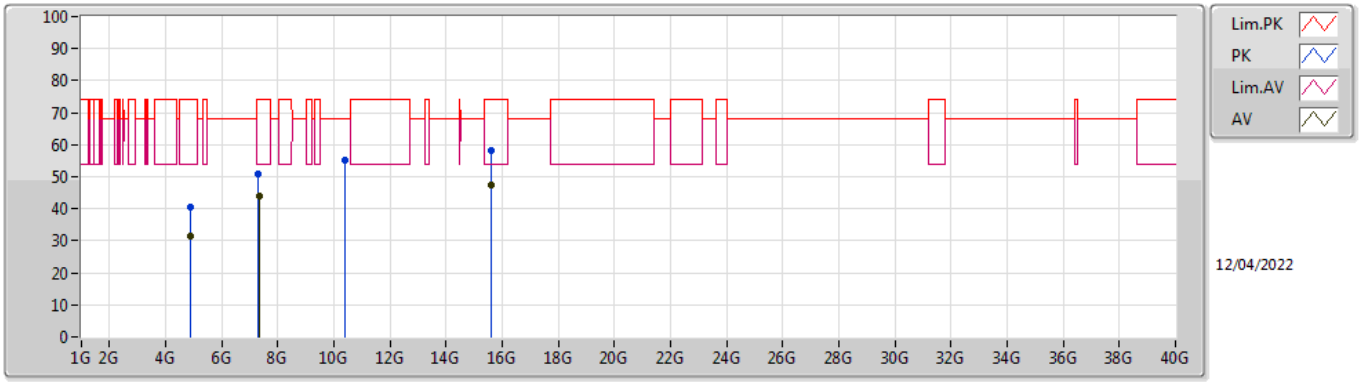
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	4.87395G	33.19	54.00	-20.81	6.74	3	Vertical	113	1.50	-	26.45	31.20	9.70	34.16
AV	4.88047G	31.80	54.00	-22.20	6.74	3	Vertical	216	1.50	-	25.06	31.20	9.70	34.16
AV	7.31179G	39.48	54.00	-14.52	13.20	3	Vertical	160	2.50	-	26.28	36.38	11.32	34.50
AV	7.31894G	39.88	54.00	-14.12	13.18	3	Vertical	219	1.50	-	26.70	36.36	11.32	34.50
PK	4.87384G	46.76	74.00	-27.24	6.74	3	Vertical	113	1.50	-	40.02	31.20	9.70	34.16
PK	4.8797G	46.16	74.00	-27.84	6.74	3	Vertical	216	1.50	-	39.42	31.20	9.70	34.16
PK	7.31024G	53.90	74.00	-20.10	13.20	3	Vertical	160	2.50	-	40.70	36.38	11.32	34.50
PK	7.32189G	54.00	74.00	-20.00	13.18	3	Vertical	219	1.50	-	40.82	36.36	11.32	34.50

Radiated Emissions above 1GHz_Mode 1



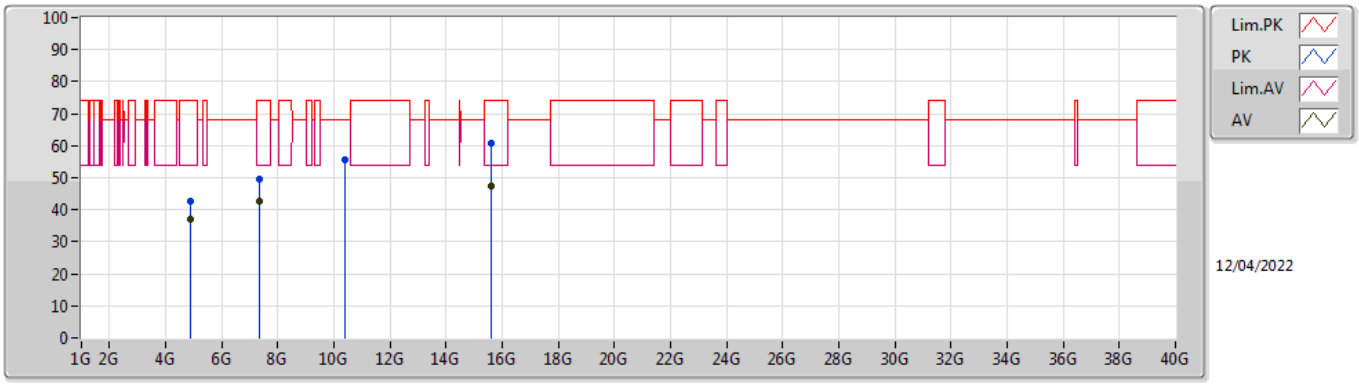
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	4.87409G	32.78	54.00	-21.22	6.74	3	Horizontal	360	2.50	-	26.04	31.20	9.70	34.16
AV	4.88052G	33.89	54.00	-20.11	6.74	3	Horizontal	94	1.65	-	27.15	31.20	9.70	34.16
AV	7.31298G	39.16	54.00	-14.84	13.19	3	Horizontal	294	1.50	-	25.97	36.37	11.32	34.50
AV	7.31776G	40.10	54.00	-13.90	13.18	3	Horizontal	360	1.50	-	26.92	36.36	11.32	34.50
PK	4.87379G	46.39	74.00	-27.61	6.74	3	Horizontal	360	2.50	-	39.65	31.20	9.70	34.16
PK	4.88116G	47.52	74.00	-26.48	6.74	3	Horizontal	94	1.65	-	40.78	31.20	9.70	34.16
PK	7.31109G	53.13	74.00	-20.87	13.20	3	Horizontal	294	1.50	-	39.93	36.38	11.32	34.50
PK	7.32078G	53.22	74.00	-20.78	13.18	3	Horizontal	360	1.50	-	40.04	36.36	11.32	34.50

Radiated Emissions above 1GHz_Mode 2



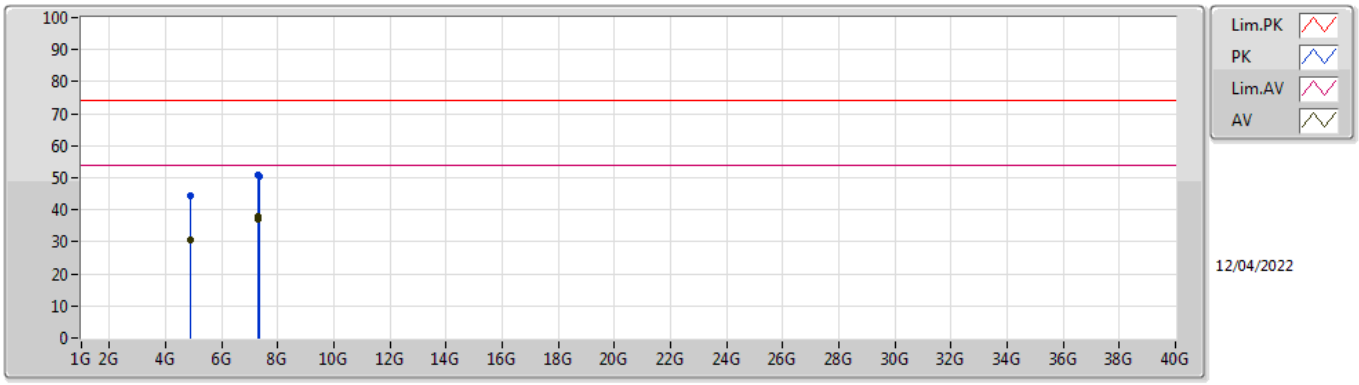
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	4.87984G	31.66	54.00	-22.34	6.74	3	Vertical	113	1.50	-	24.92	31.20	9.70	34.16
AV	7.31994G	43.99	54.00	-10.01	13.18	3	Vertical	0	2.50	-	30.81	36.36	11.32	34.50
AV	15.6027G	47.48	54.00	-6.52	18.86	3	Vertical	55	1.48	-	28.62	37.60	15.73	34.47
PK	4.87796G	40.67	74.00	-33.33	6.74	3	Vertical	113	1.50	-	33.93	31.20	9.70	34.16
PK	7.31942G	50.77	74.00	-23.23	13.18	3	Vertical	0	2.50	-	37.59	36.36	11.32	34.50
PK	10.39816G	55.09	68.20	-13.11	17.62	3	Vertical	360	1.50	-	37.47	39.49	12.69	34.56
PK	15.59672G	58.40	74.00	-15.60	18.88	3	Vertical	55	1.48	-	39.52	37.62	15.72	34.46

Radiated Emissions above 1GHz_Mode 2



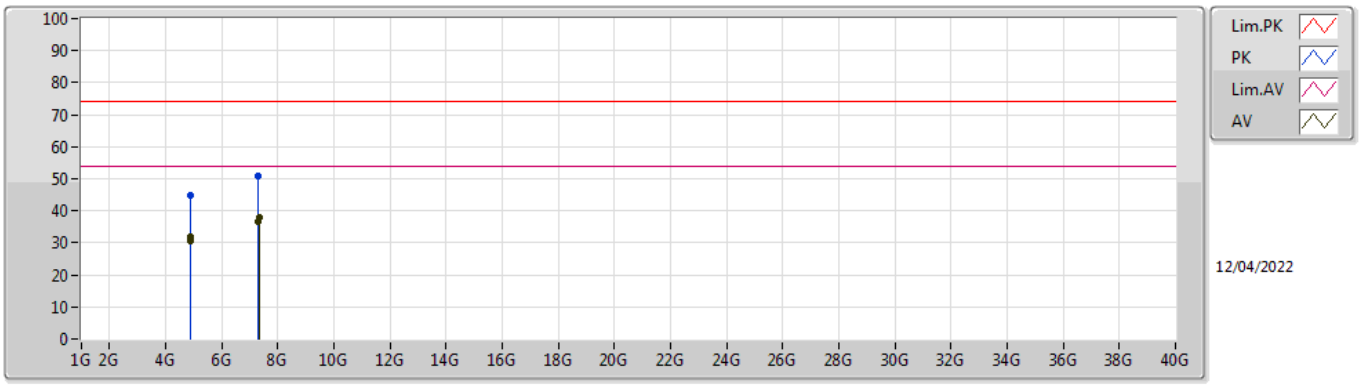
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	4.88004G	37.07	54.00	-16.93	6.74	3	Horizontal	20	1.21	-	30.33	31.20	9.70	34.16
AV	7.32G	42.73	54.00	-11.27	13.18	3	Horizontal	2	1.07	-	29.55	36.36	11.32	34.50
AV	15.60132G	47.47	54.00	-6.53	18.85	3	Horizontal	150	1.50	-	28.62	37.60	15.72	34.47
PK	4.87992G	42.56	74.00	-31.44	6.74	3	Horizontal	20	1.21	-	35.82	31.20	9.70	34.16
PK	7.3204G	49.73	74.00	-24.27	13.18	3	Horizontal	2	1.07	-	36.55	36.36	11.32	34.50
PK	10.40322G	55.42	68.20	-12.78	17.64	3	Horizontal	34	1.50	-	37.78	39.51	12.69	34.56
PK	15.6034G	60.80	74.00	-13.20	18.86	3	Horizontal	150	1.50	-	41.94	37.60	15.73	34.47

Radiated Emissions above 1GHz_Mode 3



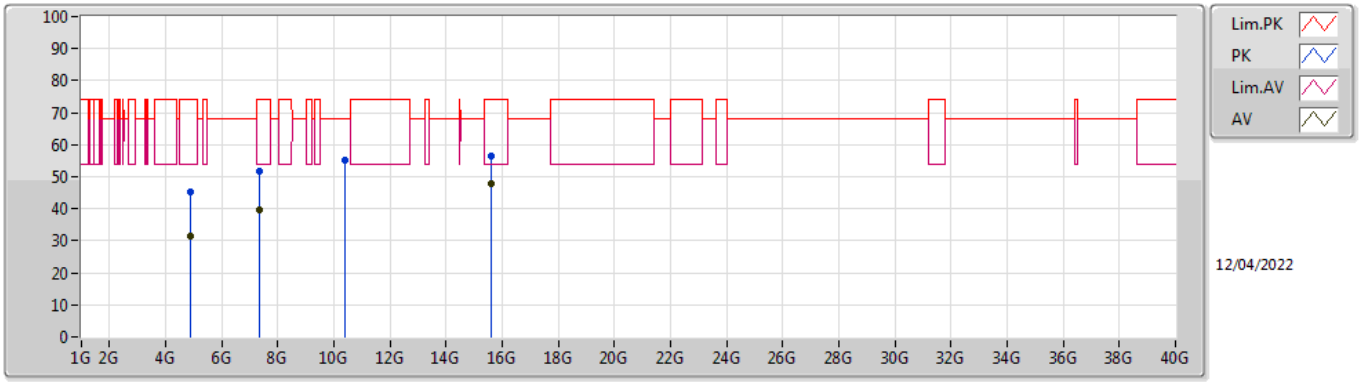
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	4.87256G	30.42	54.00	-23.58	6.74	3	Vertical	62	2.08	-	23.68	31.20	9.70	34.16
AV	4.87976G	30.46	54.00	-23.54	6.74	3	Vertical	273	2.01	-	23.72	31.20	9.70	34.16
AV	7.3133G	36.87	54.00	-17.13	13.19	3	Vertical	333	1.50	-	23.68	36.37	11.32	34.50
AV	7.31754G	38.06	54.00	-15.94	13.18	3	Vertical	163	1.50	-	24.88	36.36	11.32	34.50
PK	4.87369G	44.46	74.00	-29.54	6.74	3	Vertical	62	2.08	-	37.72	31.20	9.70	34.16
PK	4.87998G	44.57	74.00	-29.43	6.74	3	Vertical	273	2.01	-	37.83	31.20	9.70	34.16
PK	7.30694G	50.80	74.00	-23.20	13.21	3	Vertical	333	1.50	-	37.59	36.39	11.32	34.50
PK	7.3223G	50.48	74.00	-23.52	13.18	3	Vertical	163	1.50	-	37.30	36.36	11.32	34.50

Radiated Emissions above 1GHz_Mode 3



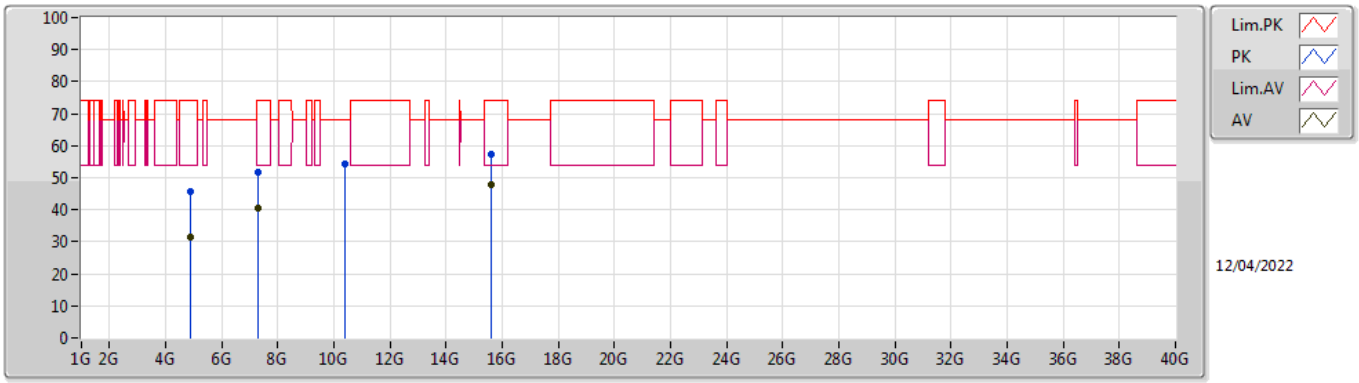
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	4.87545G	30.41	54.00	-23.59	6.74	3	Horizontal	326	1.50	-	23.67	31.20	9.70	34.16
AV	4.87977G	31.70	54.00	-22.30	6.74	3	Horizontal	272	1.50	-	24.96	31.20	9.70	34.16
AV	7.31265G	36.81	54.00	-17.19	13.19	3	Horizontal	45	1.50	-	23.62	36.37	11.32	34.50
AV	7.32062G	38.03	54.00	-15.97	13.18	3	Horizontal	294	2.24	-	24.85	36.36	11.32	34.50
PK	4.87478G	44.81	74.00	-29.19	6.74	3	Horizontal	326	1.50	-	38.07	31.20	9.70	34.16
PK	4.88011G	44.64	74.00	-29.36	6.74	3	Horizontal	272	1.50	-	37.90	31.20	9.70	34.16
PK	7.31344G	50.90	74.00	-23.10	13.19	3	Horizontal	45	1.50	-	37.71	36.37	11.32	34.50
PK	7.31895G	51.03	74.00	-22.97	13.18	3	Horizontal	294	2.24	-	37.85	36.36	11.32	34.50

Radiated Emissions above 1GHz_Mode 4



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	4.876G	31.61	54.00	-22.39	6.74	3	Vertical	0	1.44	-	24.87	31.20	9.70	34.16
AV	7.3203G	39.74	54.00	-14.26	13.18	3	Vertical	107	1.05	-	26.56	36.36	11.32	34.50
AV	15.59356G	47.81	54.00	-6.19	18.90	3	Vertical	98	1.00	-	28.91	37.64	15.72	34.46
PK	4.8831G	45.30	74.00	-28.70	6.74	3	Vertical	0	1.44	-	38.56	31.20	9.70	34.16
PK	7.32022G	51.57	74.00	-22.43	13.18	3	Vertical	107	1.05	-	38.39	36.36	11.32	34.50
PK	10.3926G	55.10	68.20	-13.10	17.58	3	Vertical	204	1.50	-	37.52	39.47	12.68	34.57
PK	15.59852G	56.51	74.00	-17.49	18.86	3	Vertical	98	1.00	-	37.65	37.61	15.72	34.47

Radiated Emissions above 1GHz_Mode 4



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
AV	4.875G	31.64	54.00	-22.36	6.74	3	Horizontal	156	1.24	-	24.90	31.20	9.70	34.16
AV	7.31966G	40.32	54.00	-13.68	13.18	3	Horizontal	16	1.00	-	27.14	36.36	11.32	34.50
AV	15.59136G	47.76	54.00	-6.24	18.91	3	Horizontal	268	1.55	-	28.85	37.65	15.72	34.46
PK	4.87568G	45.55	74.00	-28.45	6.74	3	Horizontal	156	1.24	-	38.81	31.20	9.70	34.16
PK	7.31962G	51.63	74.00	-22.37	13.18	3	Horizontal	16	1.00	-	38.45	36.36	11.32	34.50
PK	10.39944G	54.17	68.20	-14.03	17.63	3	Horizontal	303	1.50	-	36.54	39.50	12.69	34.56
PK	15.59764G	57.17	74.00	-16.83	18.87	3	Horizontal	268	1.55	-	38.30	37.61	15.72	34.46