

FCC Radio Test Report

FCC ID : RUK-MK105
Equipment : BLE Keyless System-Keyfob
Brand Name : M.gear
Model Name : MK105
Applicant : Wha Yu Industrial Co., Ltd
No.326, Sec. 2, Kung Tao 5 Road., Hsinchu City
30070, Taiwan (R.O.C.)
Manufacturer : Wha Yu Industrial Co., Ltd
No.326, Sec. 2, Kung Tao 5 Road., Hsinchu City
30070, Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 05, 2022, and testing was started from Aug. 08, 2022 and completed on Aug. 26, 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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History of this test report

TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-C10 Ver.4.3
FCC ID: RUK-MK105

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	Only employ battery power.
3.1	15.247(a)	DTS Bandwidth	PASS	-
3.2	15.247(b)	Maximum Conducted Output Power	PASS	-
3.3	15.247(e)	Power Spectral Density	PASS	-
3.4	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.5	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: Barry Hsiao

Report Producer: Debby Hung

1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	M.gear	NE3-21023	PCB antenna	N/A	2.1

Note 1: The EUT has one antenna.

For BT function:

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

Ant. 1 could transmit/receive.

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From DC Power Supply
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) $\geq 1/T$
BT-LE(1Mbps)	0.672	1.73	420u	3k
BT-LE(125kbps)	0.815	0.89	3.132m	1k
BT-LE(500kbps)	0.587	2.31	1.098m	1k
BT-LE(2Mbps)	0.382	4.18	238.75u	10k

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 (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.) TEL: 886-3-327-3456 FAX: 886-3-327-0973			
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Jin Chou	22.5~25.8°C / 53~56%	22/Aug/2022
Radiated	03CH02-HY	Jack Tang	21.5~23.2°C / 56~58%	08/Aug/2022~26/Aug/2022
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: 886-3-318-0787 FAX: 886-3-318-0287			

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
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 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	RTL8762C_RFTTestTool v1.0.1.5
------------------------------	-------------------------------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(2Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(125kbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(500kbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default

2.2 The Worst Case Measurement Configuration

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

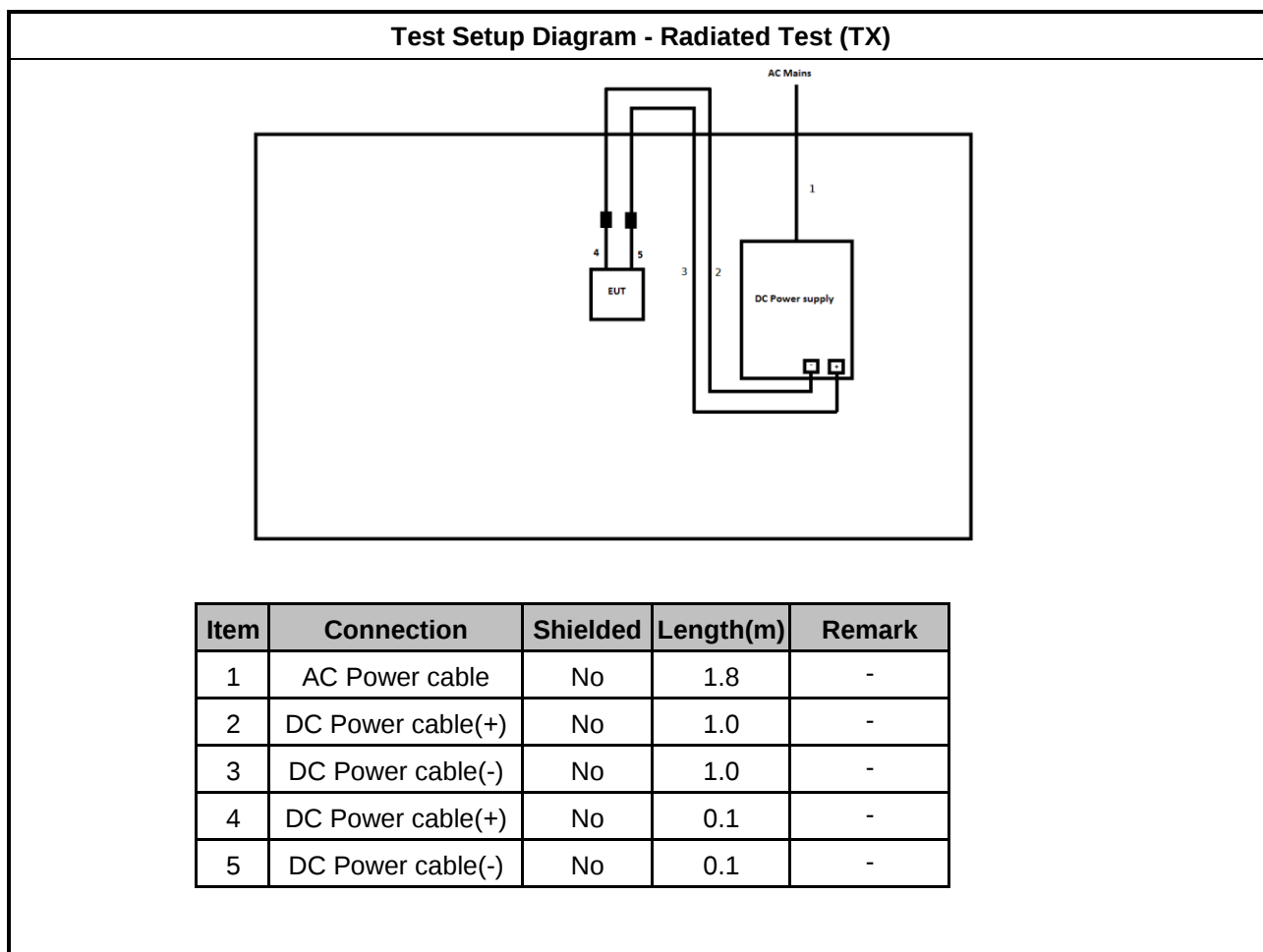
The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should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

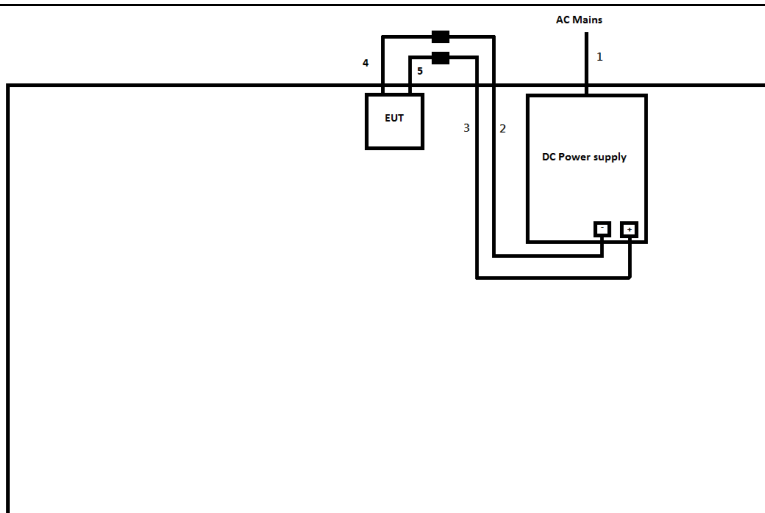
2.3 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	MicroUSB-UART-Board	100y	138138(FT232-Micro USB-UART-Board)	-	-
4	UART-USB5	PRO-BEST	USB A_M TO MICRO USB B	-	-
5	DC Power Supply	GW	GPS-3030DD	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	DC Power Supply	GW	GPS-3030DD	-	-
2	DC power cable(-)	MiSUMi	WTN1229-BLACK	-	-
3	DC power cable(+)	MiSUMi	WTN1229-RED	-	-
4	AC Power Cable	Power Sync	PW-GPC180-3	-	-

2.4 Test Setup Diagram



Test Setup Diagram - Radiated Test (RX)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable(+)	No	1.0	-
3	DC Power cable(-)	No	1.0	-
4	DC Power cable(+)	No	0.1	-
5	DC Power cable(-)	No	0.1	-

3 Transmitter Test Result

3.1 DTS Bandwidth

3.1.1 6dB Bandwidth Limit

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

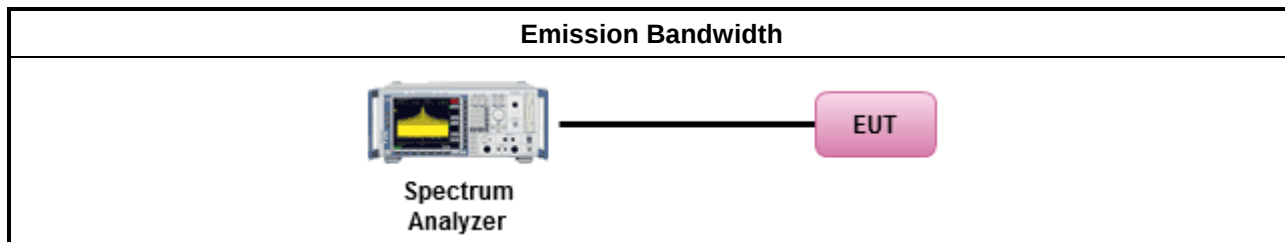
3.1.2 Measuring Instruments

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

3.1.3 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.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

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

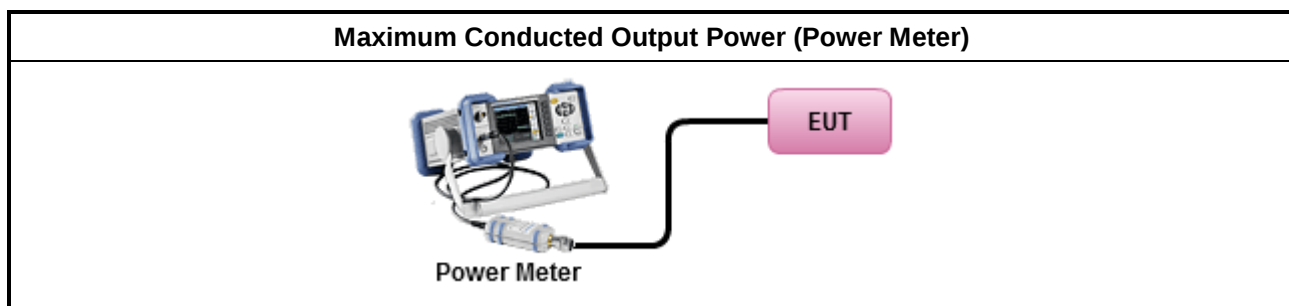
3.2.2 Measuring Instruments

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Power Spectral Density

3.3.1 Power Spectral Density Limit

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

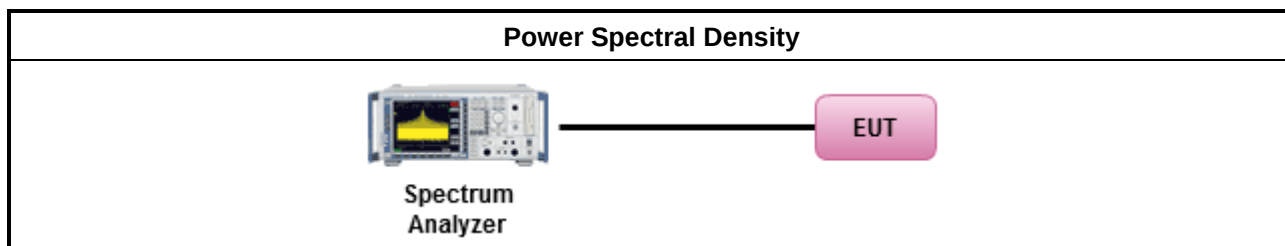
3.3.2 Measuring Instruments

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

3.3.3 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.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

3.4 Emissions in Non-restricted Frequency Bands

3.4.1 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.	

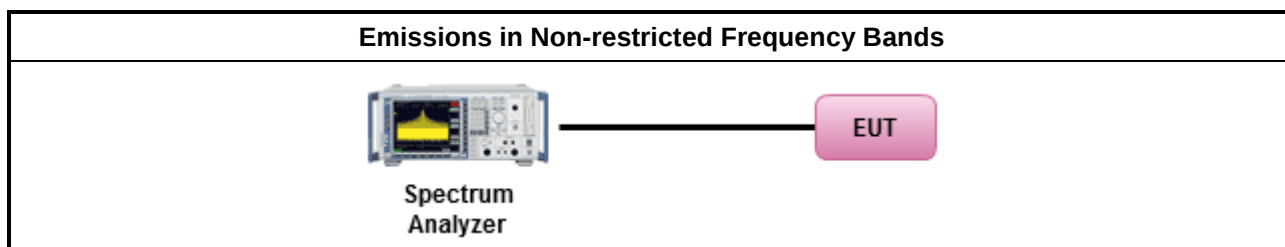
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.5 Emissions in Restricted Frequency Bands

3.5.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

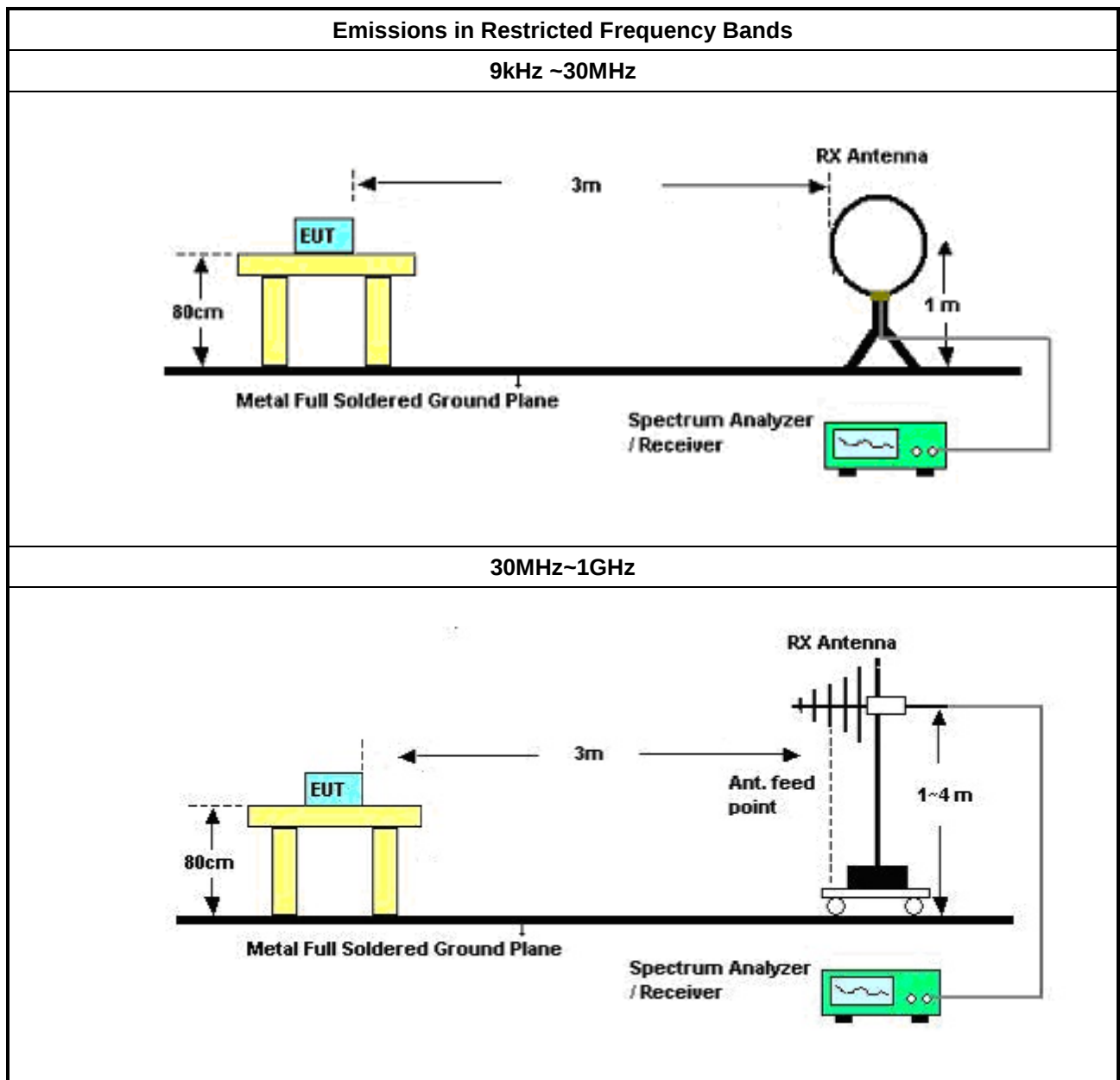
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted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

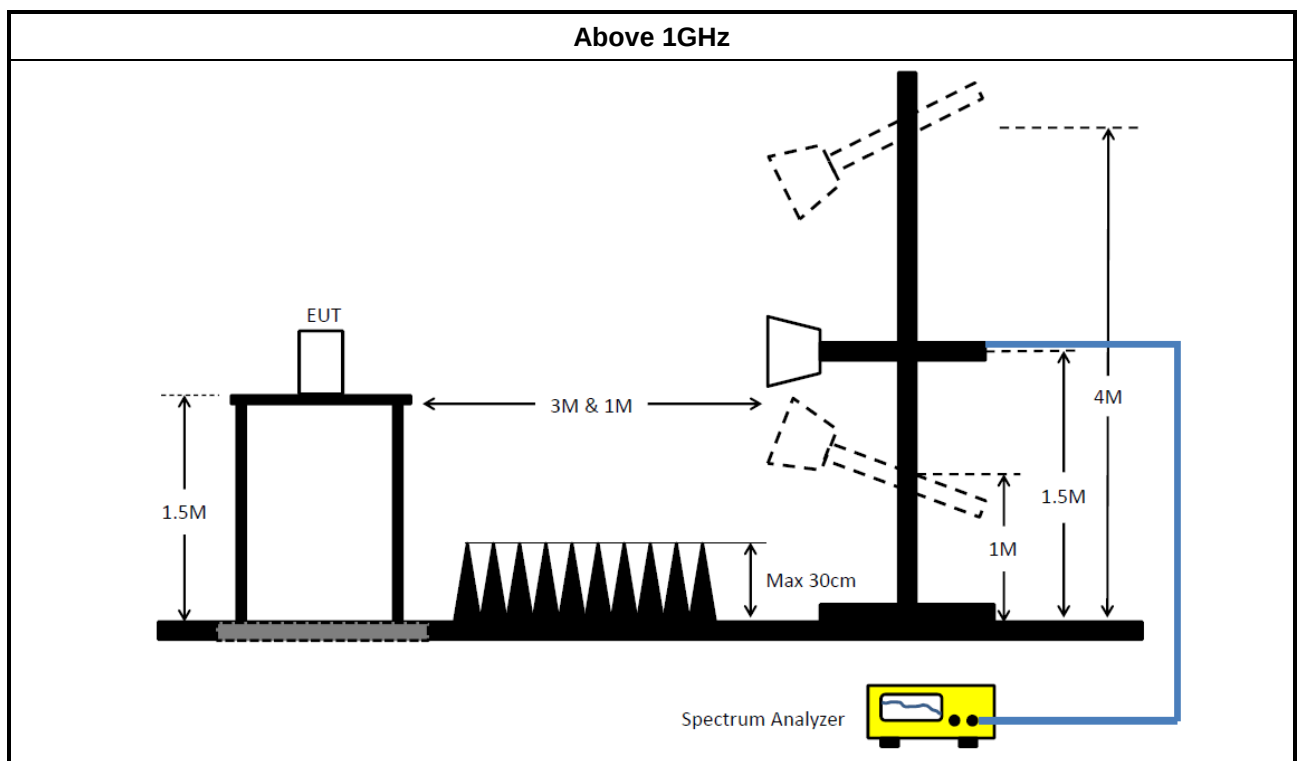
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.5 Test Setup





3.5.6 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.

3.5.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix E

4 Test Equipment and Calibration Data

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
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	V5.10.7.16	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	31/Jul/2022	30/Jul/2023
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100305	9kHz~40GHz	21/Mar/2022	20/Mar/2023
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	28/Jun/2022	27/Jun/2023
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
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	04/May/2022	03/May/2023
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	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Prempplier	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	N/A	N/A	N/A	N/A

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)	731.25k	1.058M	1M06F1D	665k	1.033M
BT-LE(2Mbps)	1.128M	2.086M	2M09F1D	957.5k	2.059M
BT-LE(125kbps)	687.5k	1.064M	1M06F1D	620k	1.057M
BT-LE(500kbps)	717.5k	1.047M	1M05F1D	650k	1.024M

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

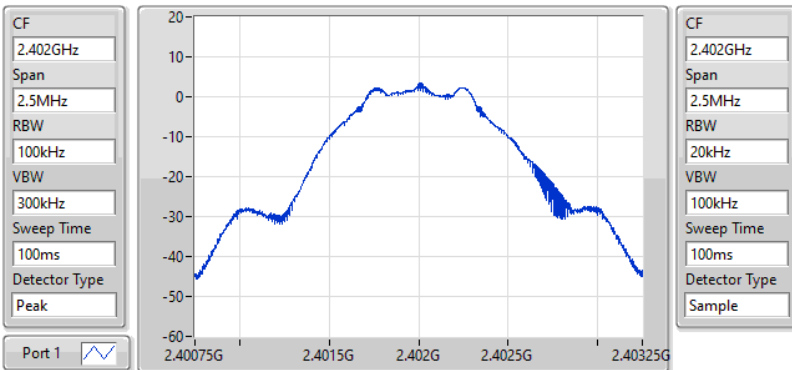
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	665k	1.033M
2440MHz	Pass	500k	705k	1.057M
2480MHz	Pass	500k	731.25k	1.058M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.128M	2.059M
2440MHz	Pass	500k	1.125M	2.086M
2480MHz	Pass	500k	957.5k	2.061M
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	620k	1.057M
2440MHz	Pass	500k	668.75k	1.064M
2480MHz	Pass	500k	687.5k	1.063M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	650k	1.024M
2440MHz	Pass	500k	700k	1.047M
2480MHz	Pass	500k	717.5k	1.029M

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

BT-LE(1Mbps)

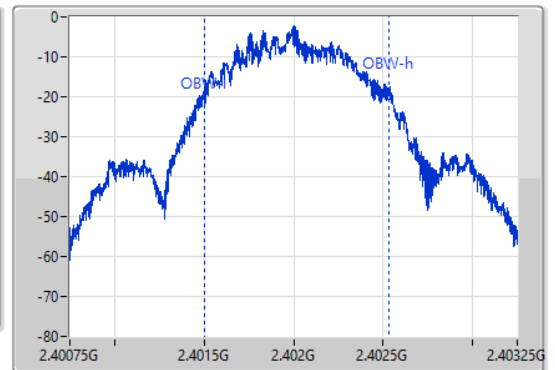
2402MHz



6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
665k	2.401673G	2.402338G	1.033M	2.4015G	2.402533G	500k	1

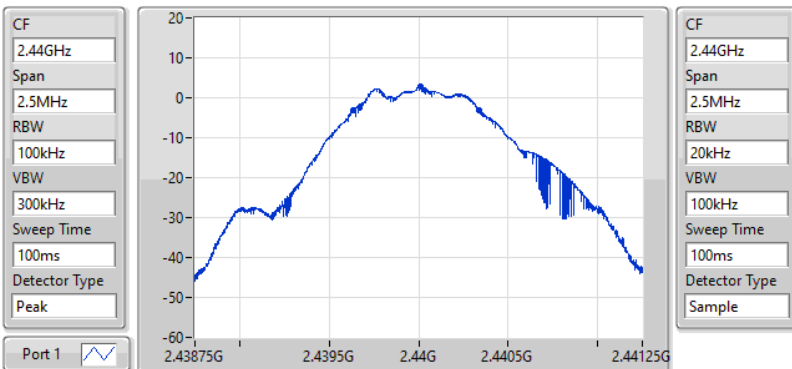
EBW-DTS

22/08/2022



BT-LE(1Mbps)

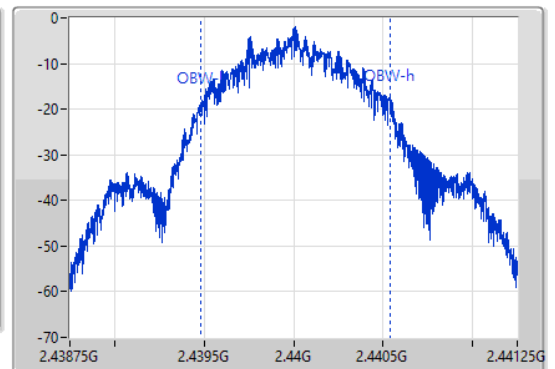
2440MHz



6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
705k	2.439635G	2.44034G	1.057M	2.439483G	2.44054G	500k	1

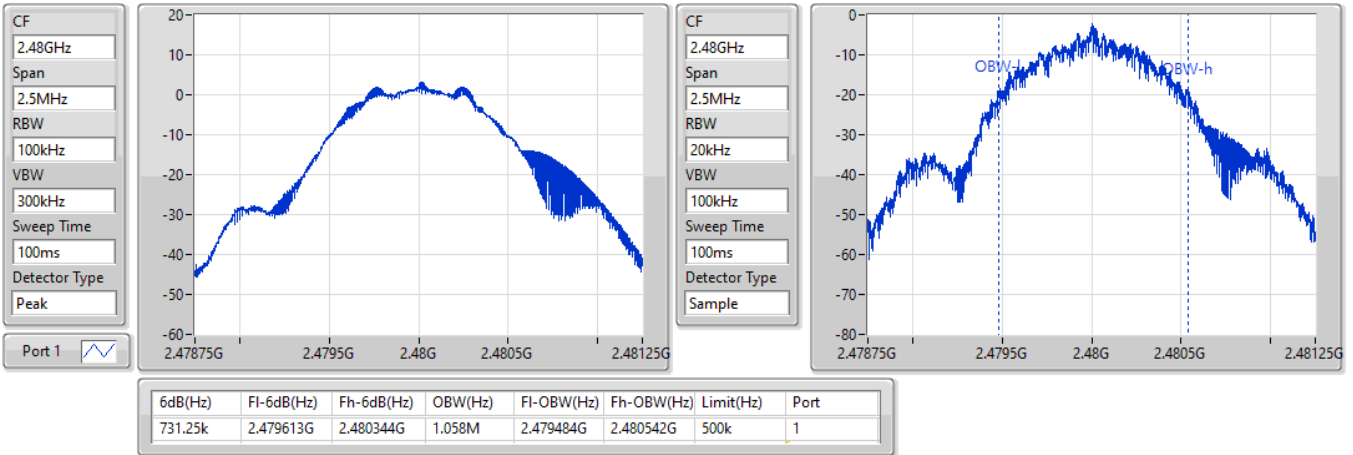
EBW-DTS

22/08/2022

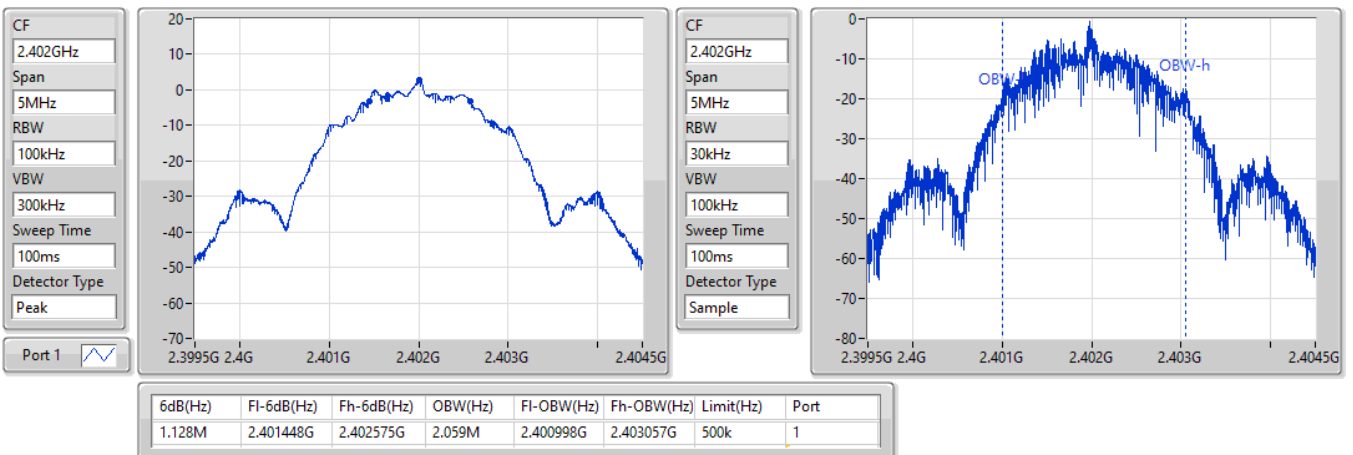


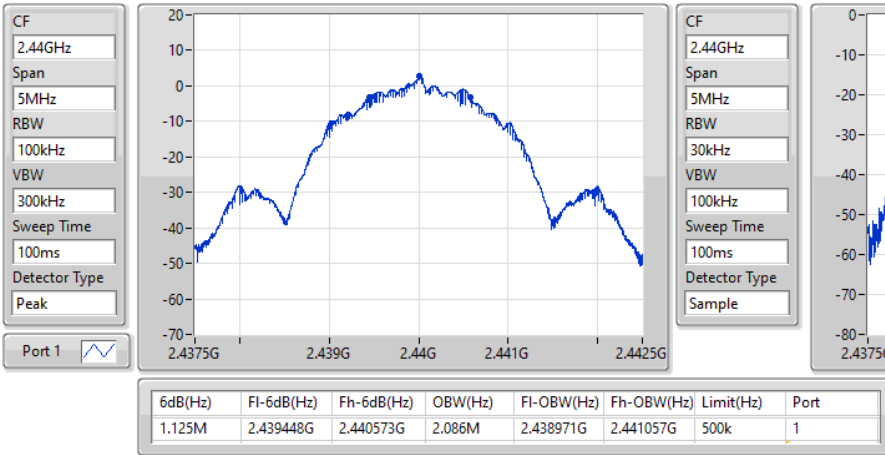
BT-LE(1Mbps)
EBW-DTS
2480MHz

22/08/2022

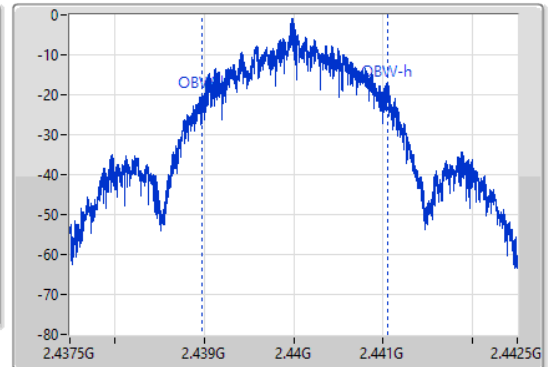
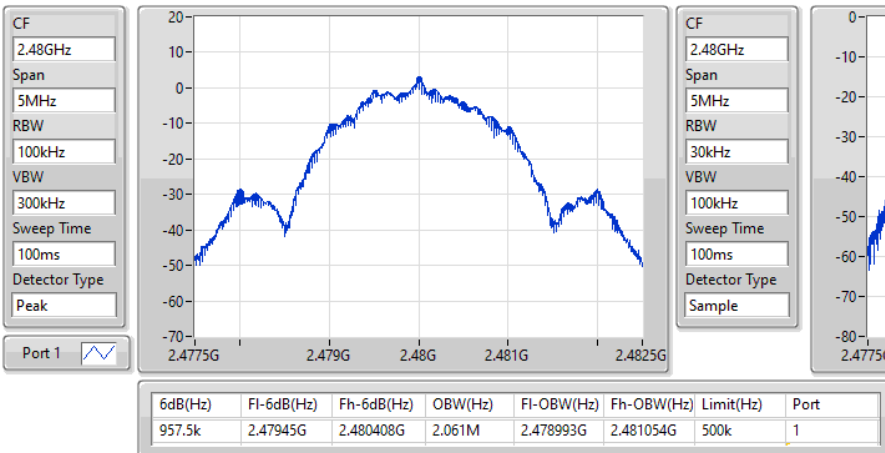

BT-LE(2Mbps)
EBW-DTS
2402MHz

22/08/2022

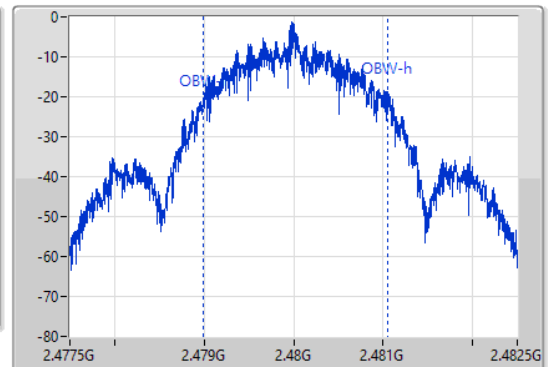


BT-LE(2Mbps)
2440MHz

EBW-DTS

22/08/2022


BT-LE(2Mbps)
2480MHz

EBW-DTS

22/08/2022

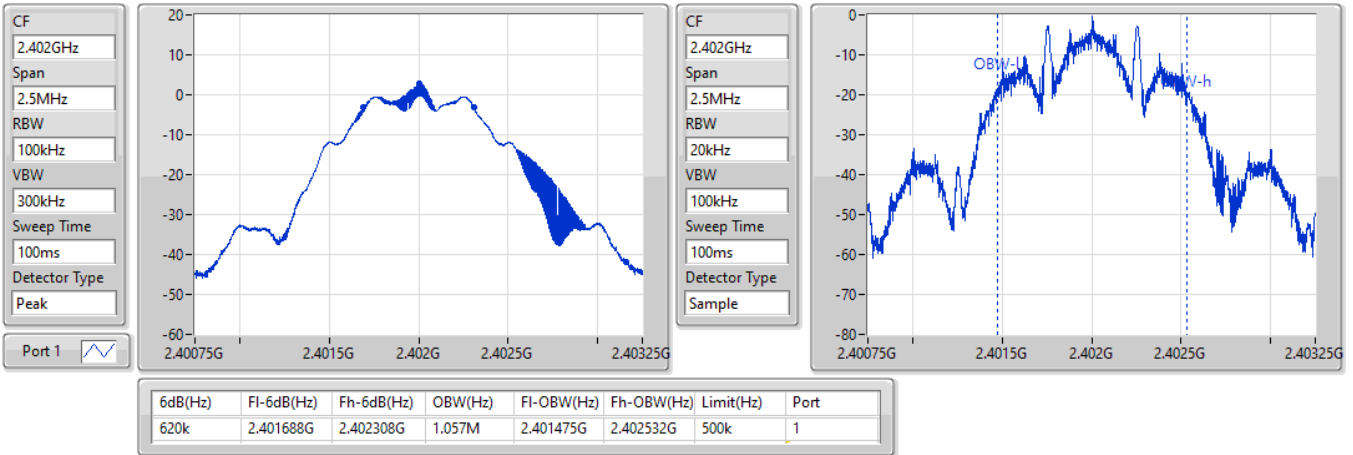


BT-LE(125kbps)

EBW-DTS

2402MHz

22/08/2022

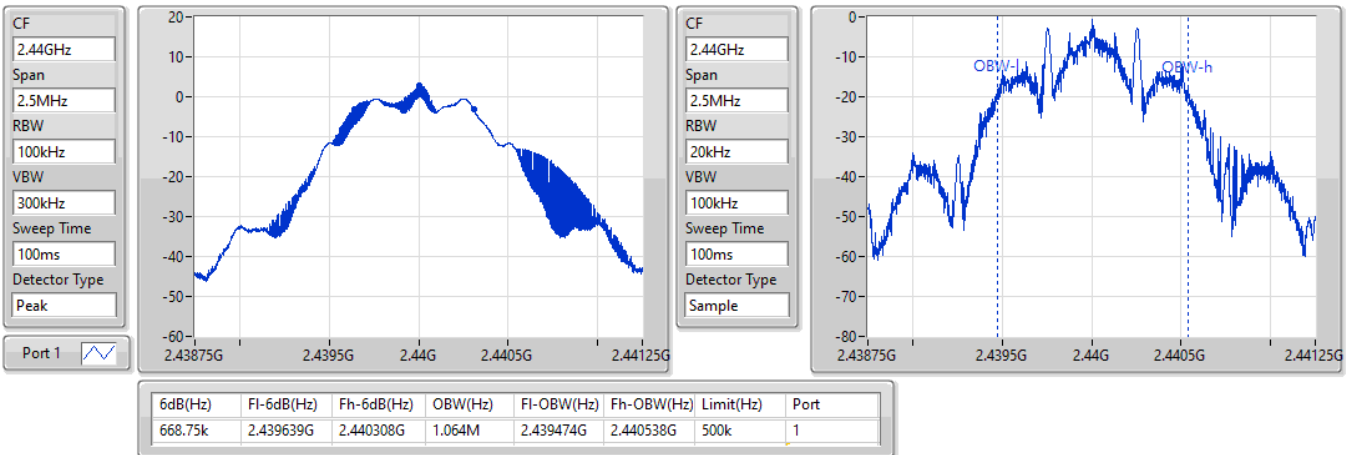


BT-LE(125kbps)

EBW-DTS

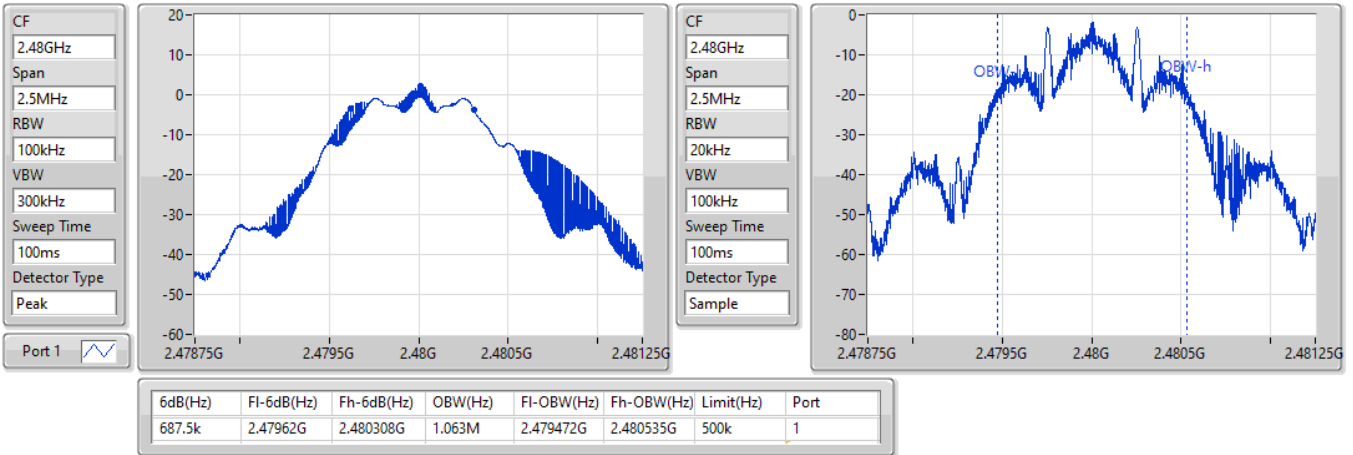
2440MHz

22/08/2022

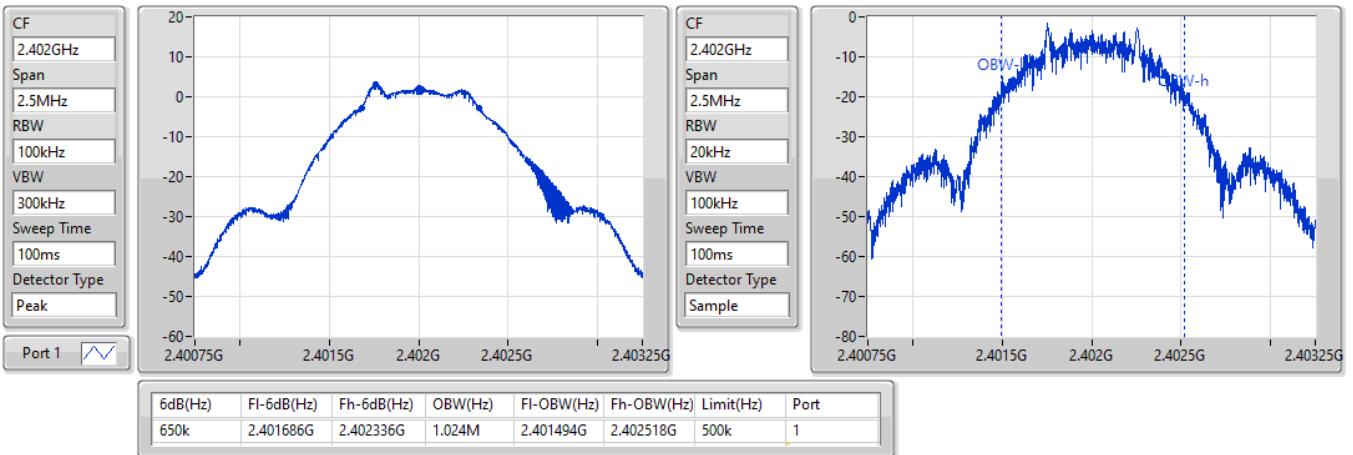


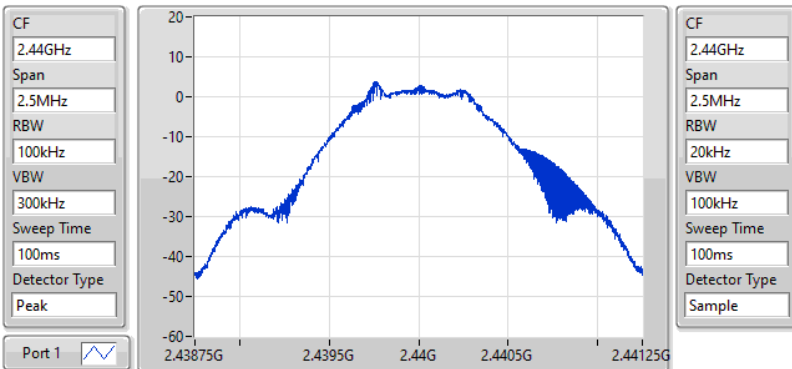
BT-LE(125kbps)
EBW-DTS
2480MHz

22/08/2022


BT-LE(500kbps)
EBW-DTS
2402MHz

22/08/2022

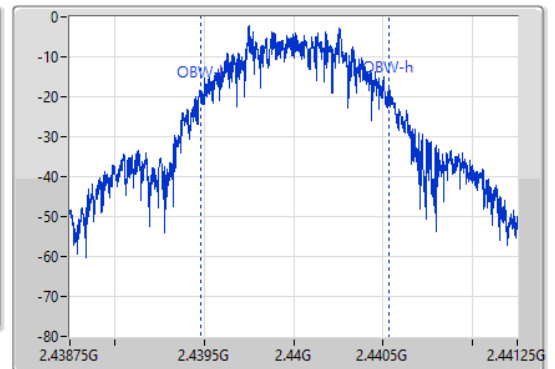
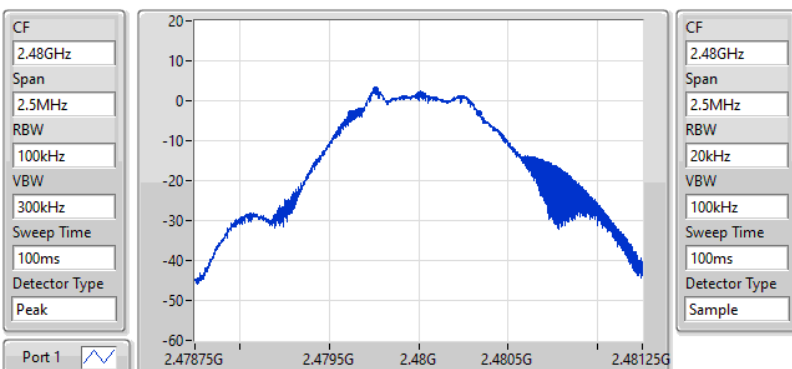


BT-LE(500kbps)
2440MHz


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
700k	2.439639G	2.440339G	1.047M	2.439484G	2.440531G	500k	1

EBW-DTS

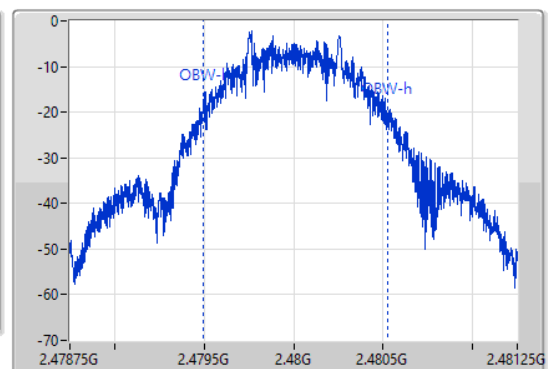
22/08/2022


BT-LE(500kbps)
2480MHz


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
717.5k	2.47962G	2.480338G	1.029M	2.479495G	2.480525G	500k	1

EBW-DTS

22/08/2022





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	3.37	0.00217
BT-LE(2Mbps)	3.22	0.00210
BT-LE(125kbps)	3.67	0.00233
BT-LE(500kbps)	3.61	0.00230



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.10	3.37	30.00
2440MHz	Pass	2.10	3.30	30.00
2480MHz	Pass	2.10	2.95	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.10	3.22	30.00
2440MHz	Pass	2.10	3.16	30.00
2480MHz	Pass	2.10	2.85	30.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	2.10	3.67	30.00
2440MHz	Pass	2.10	3.49	30.00
2480MHz	Pass	2.10	3.12	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	2.10	3.61	30.00
2440MHz	Pass	2.10	3.48	30.00
2480MHz	Pass	2.10	3.09	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-12.27
BT-LE(2Mbps)	-12.65
BT-LE(125kbps)	-2.96
BT-LE(500kbps)	-3.25

RBW = 3kHz;

Result

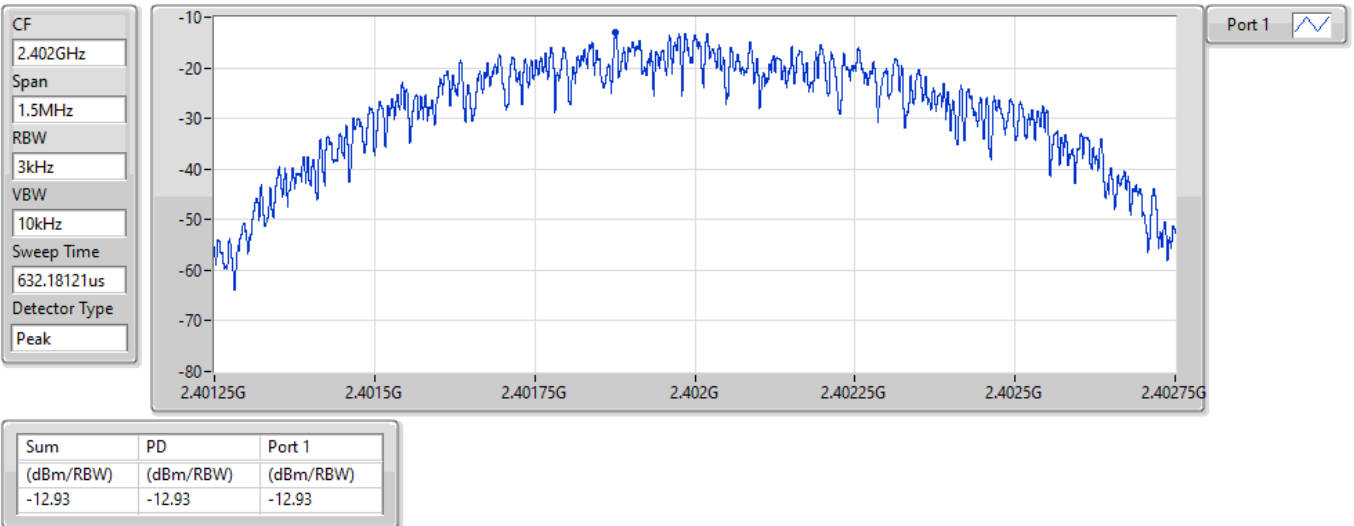
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.10	-12.93	8.00
2440MHz	Pass	2.10	-12.58	8.00
2480MHz	Pass	2.10	-12.27	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	2.10	-12.65	8.00
2440MHz	Pass	2.10	-16.11	8.00
2480MHz	Pass	2.10	-16.24	8.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	2.10	-3.03	8.00
2440MHz	Pass	2.10	-2.96	8.00
2480MHz	Pass	2.10	-3.40	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	2.10	-3.25	8.00
2440MHz	Pass	2.10	-6.64	8.00
2480MHz	Pass	2.10	-4.24	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)

2402MHz

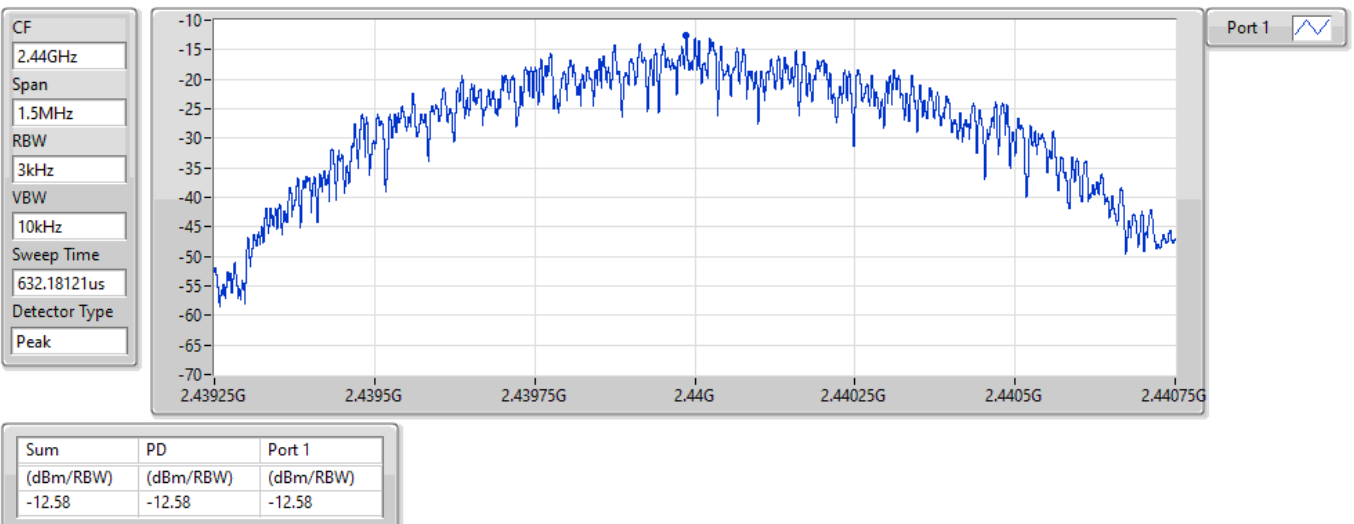
22/08/2022



BT-LE(1Mbps)

2440MHz

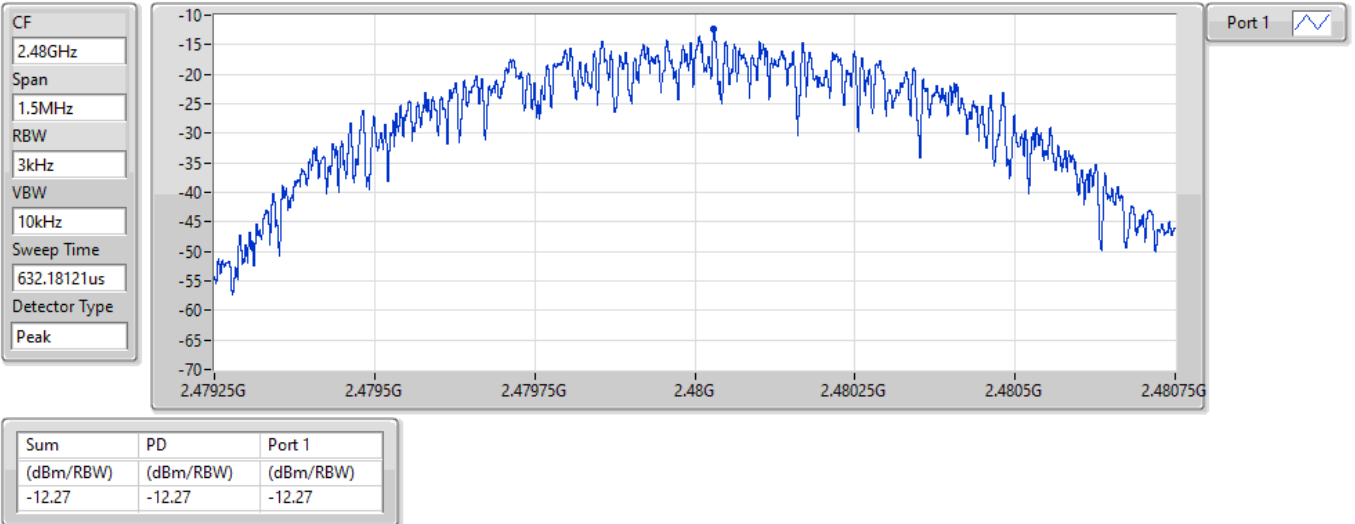
22/08/2022



BT-LE(1Mbps)

2480MHz

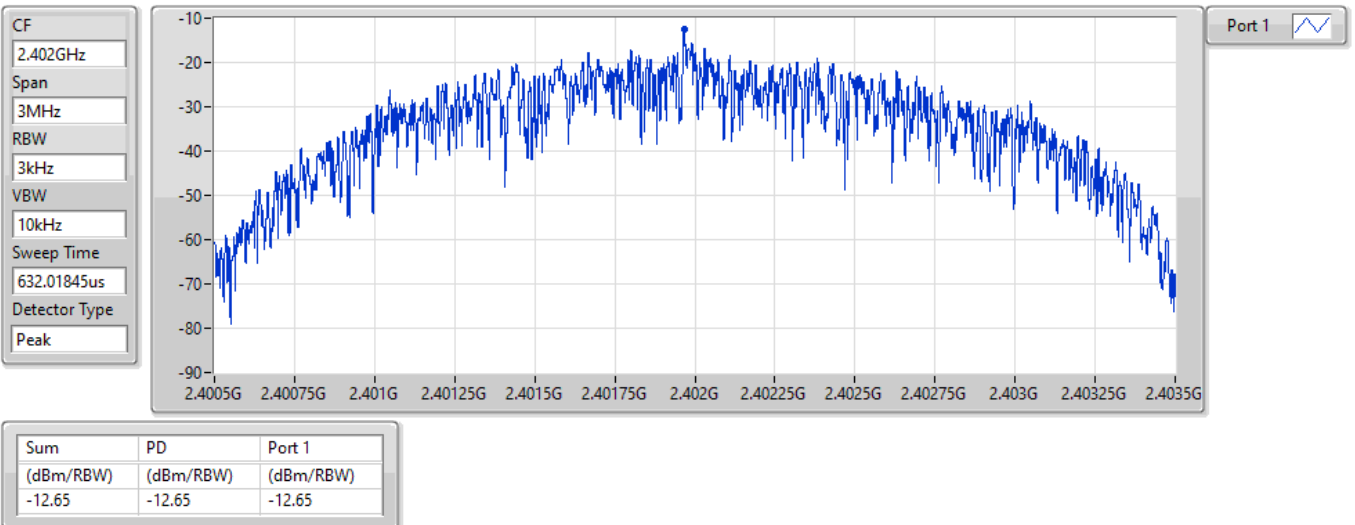
22/08/2022



BT-LE(2Mbps)

2402MHz

22/08/2022

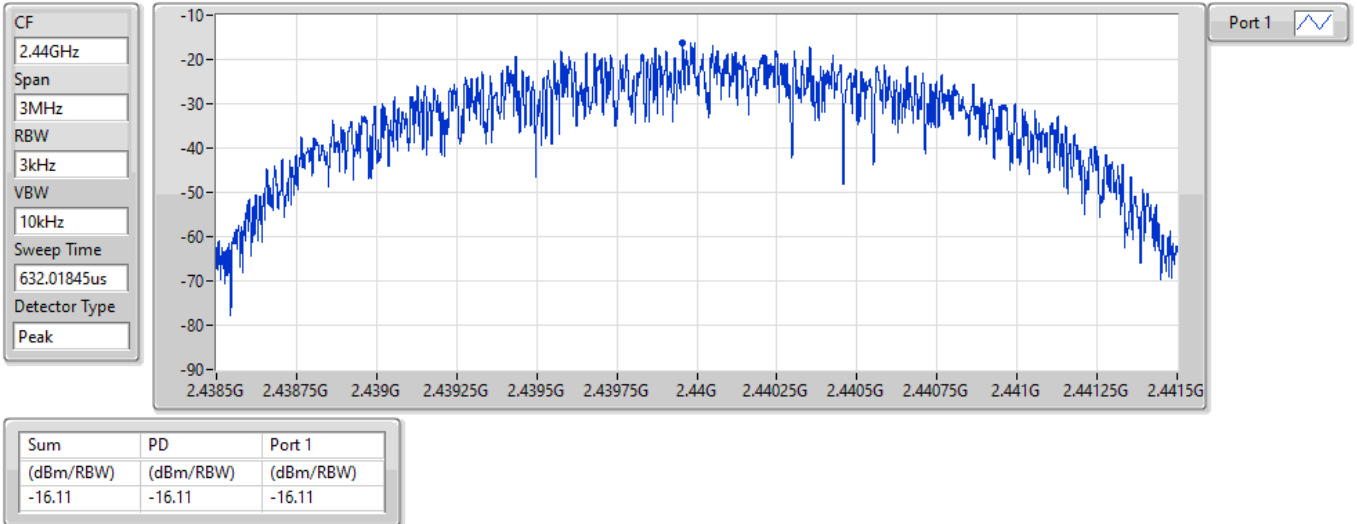


BT-LE(2Mbps)

PSD

2440MHz

22/08/2022

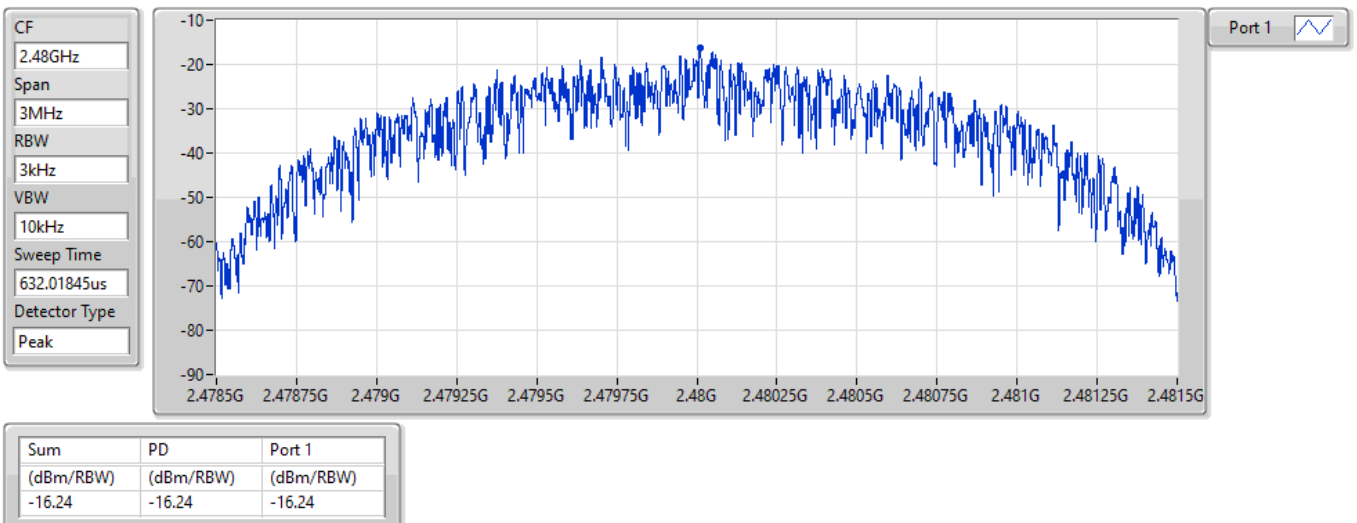


BT-LE(2Mbps)

PSD

2480MHz

22/08/2022

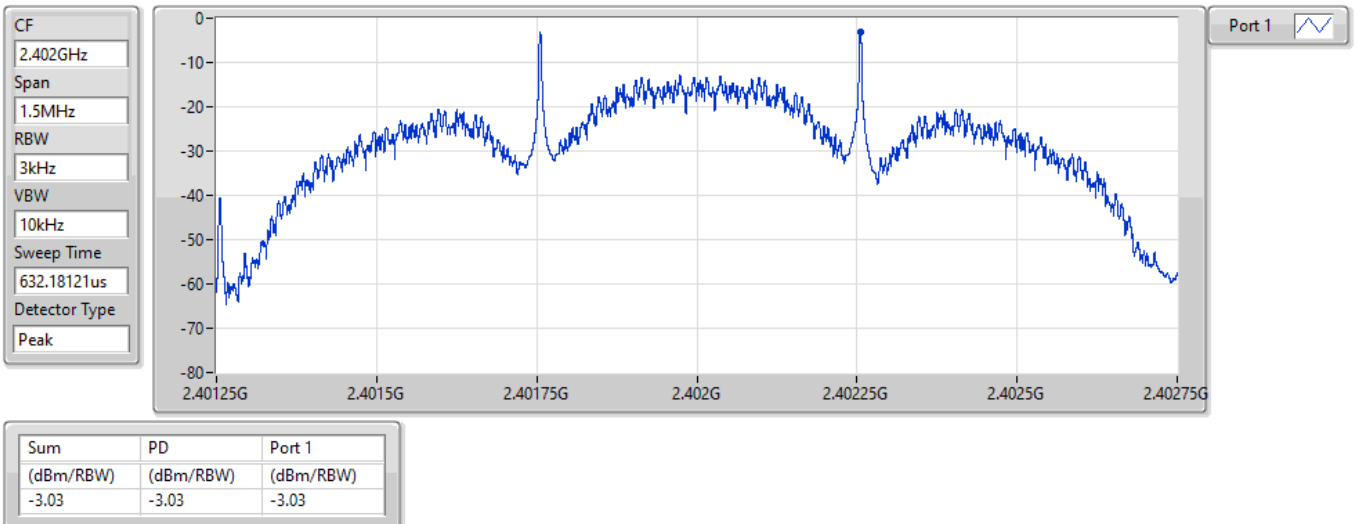


BT-LE(125kbps)

PSD

2402MHz

22/08/2022

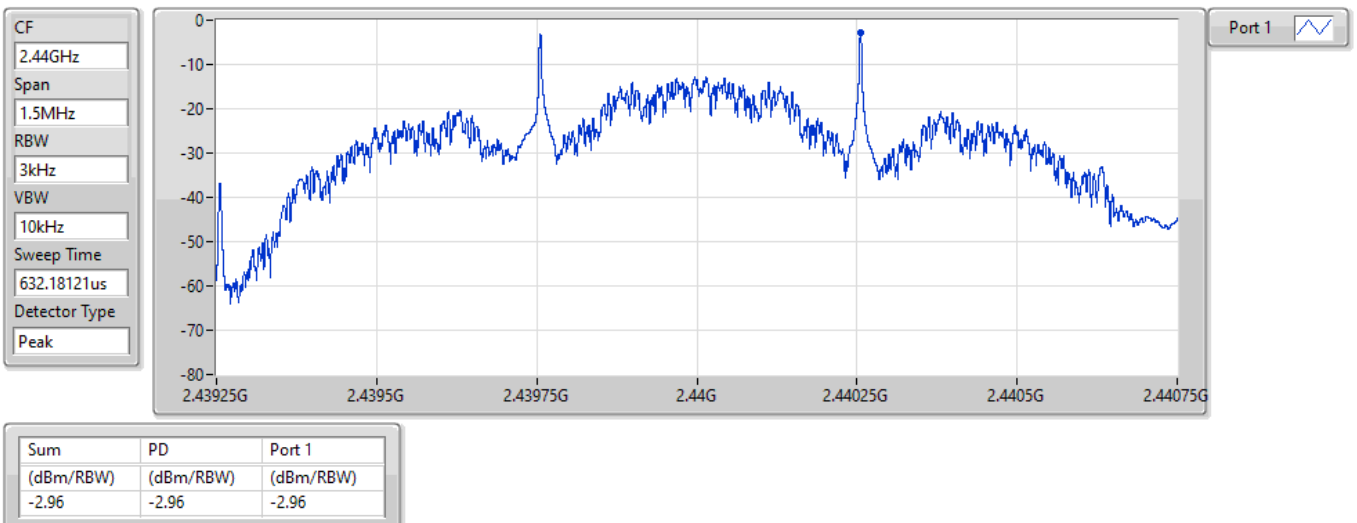


BT-LE(125kbps)

PSD

2440MHz

22/08/2022

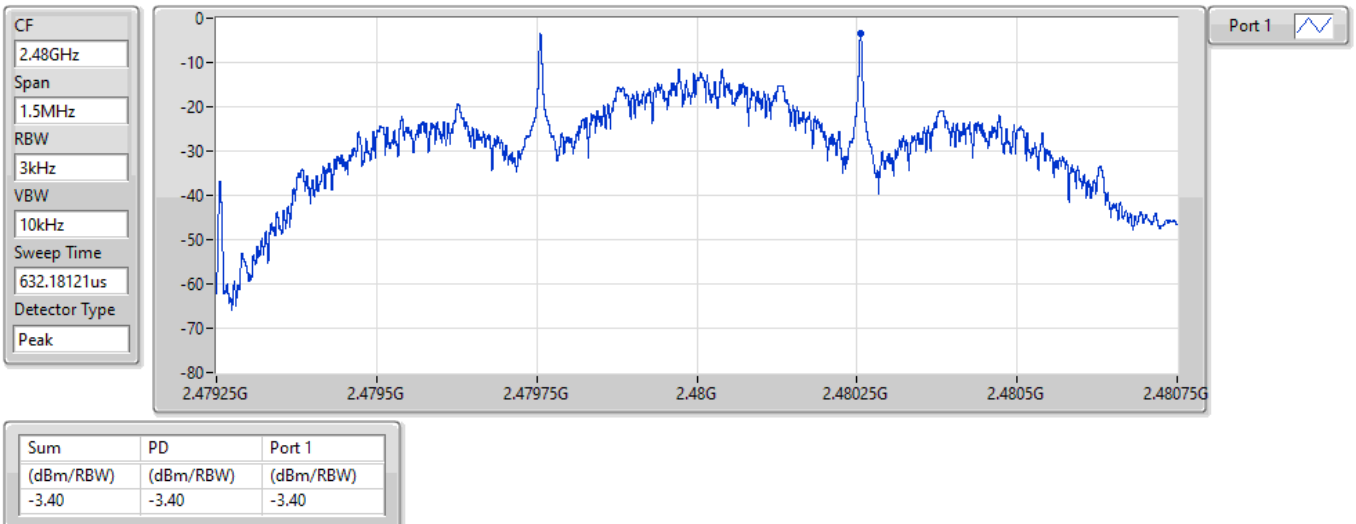


BT-LE(125kbps)

PSD

2480MHz

22/08/2022

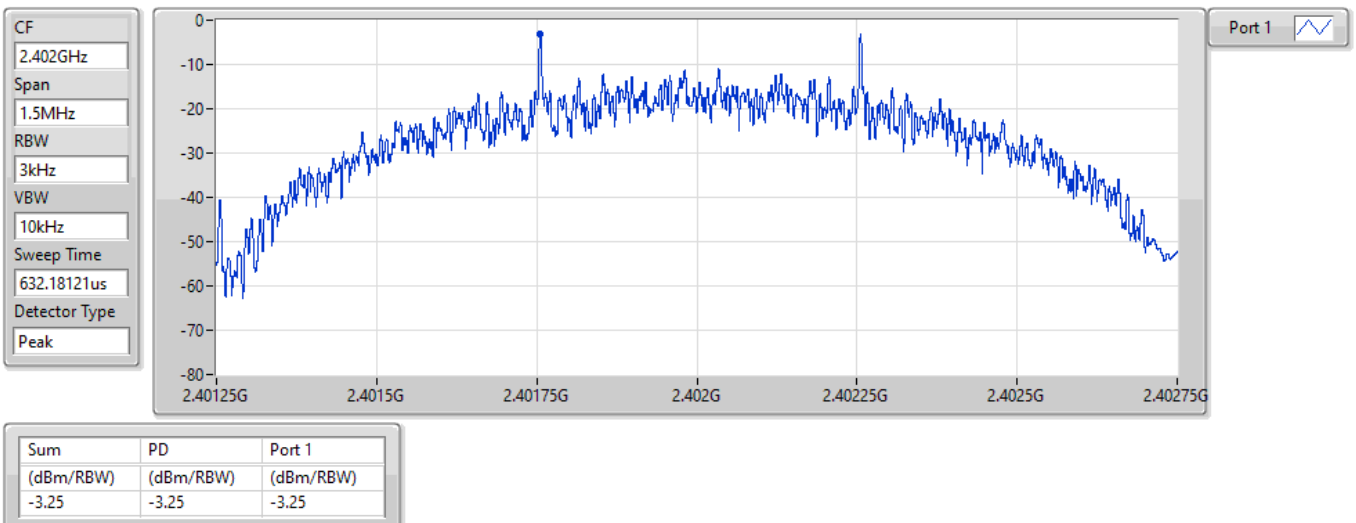


BT-LE(500kbps)

PSD

2402MHz

22/08/2022

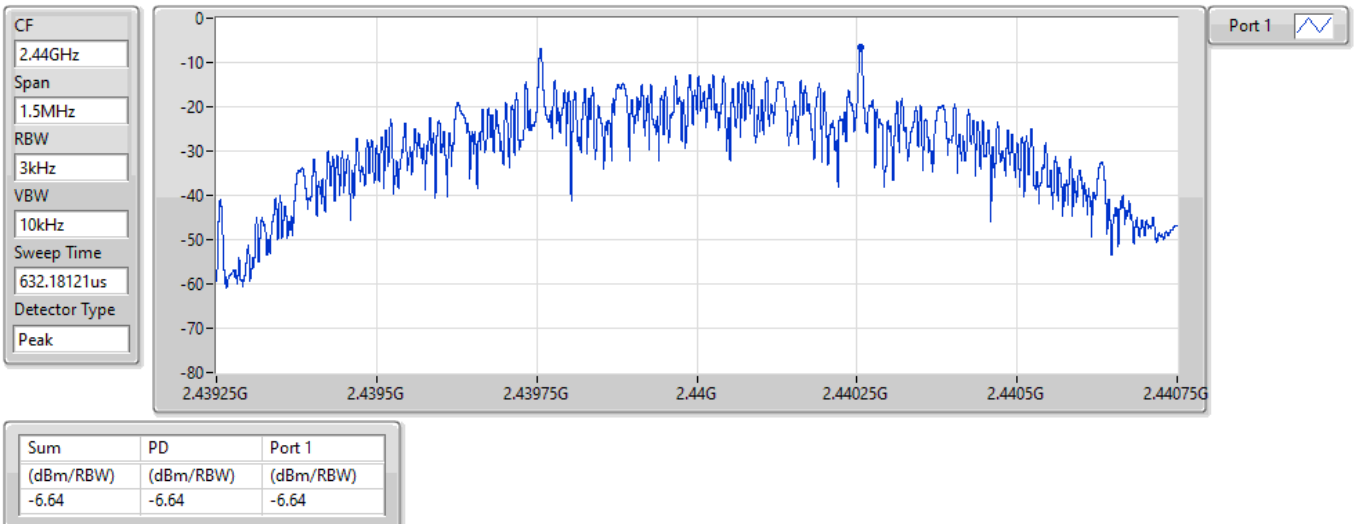


BT-LE(500kbps)

PSD

2440MHz

22/08/2022

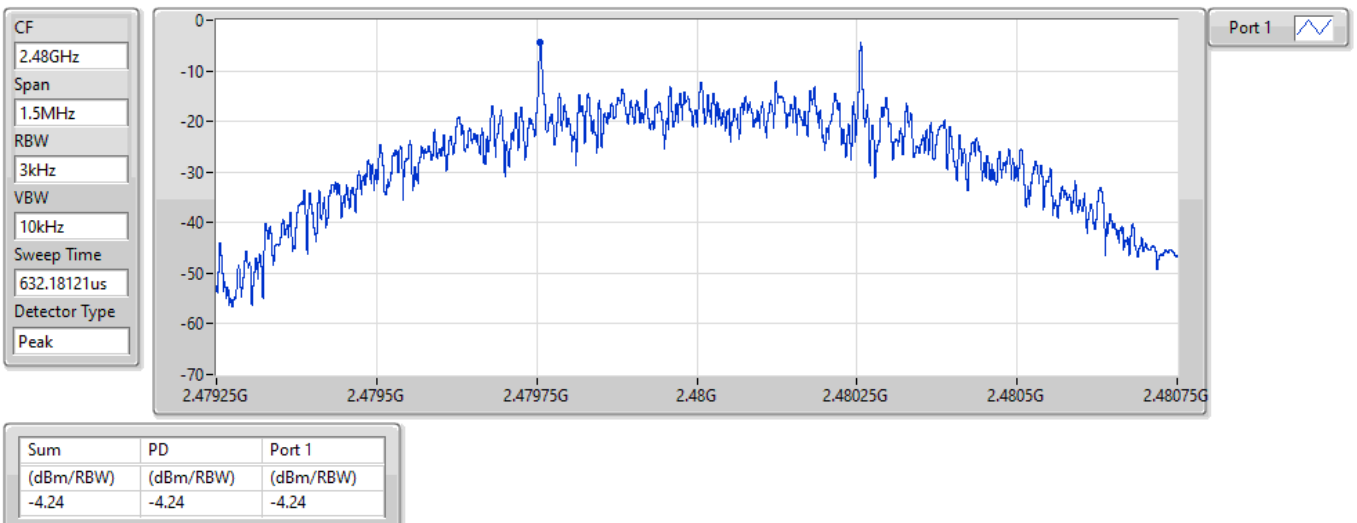


BT-LE(500kbps)

PSD

2480MHz

22/08/2022



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.402G	2.71	-27.29	1.92293G	-55.14	2.39808G	-53.05	2.4G	-52.58	2.50234G	-54.23	15.21402G	-42.54	1
BT-LE(2Mbps)	Pass	2.402G	2.84	-27.16	1.94173G	-55.20	2.4G	-28.23	2.4G	-28.56	2.50178G	-54.11	24.6513G	-42.98	1
BT-LE(125kbps)	Pass	2.402G	1.14	-28.86	2.0698G	-55.01	2.39624G	-52.92	2.4G	-54.90	2.50022G	-53.83	24.76379G	-42.61	1
BT-LE(500kbps)	Pass	2.40167G	2.44	-27.56	1.89708G	-52.97	2.39912G	-52.69	2.4G	-53.64	2.50086G	-53.39	15.22246G	-42.54	1

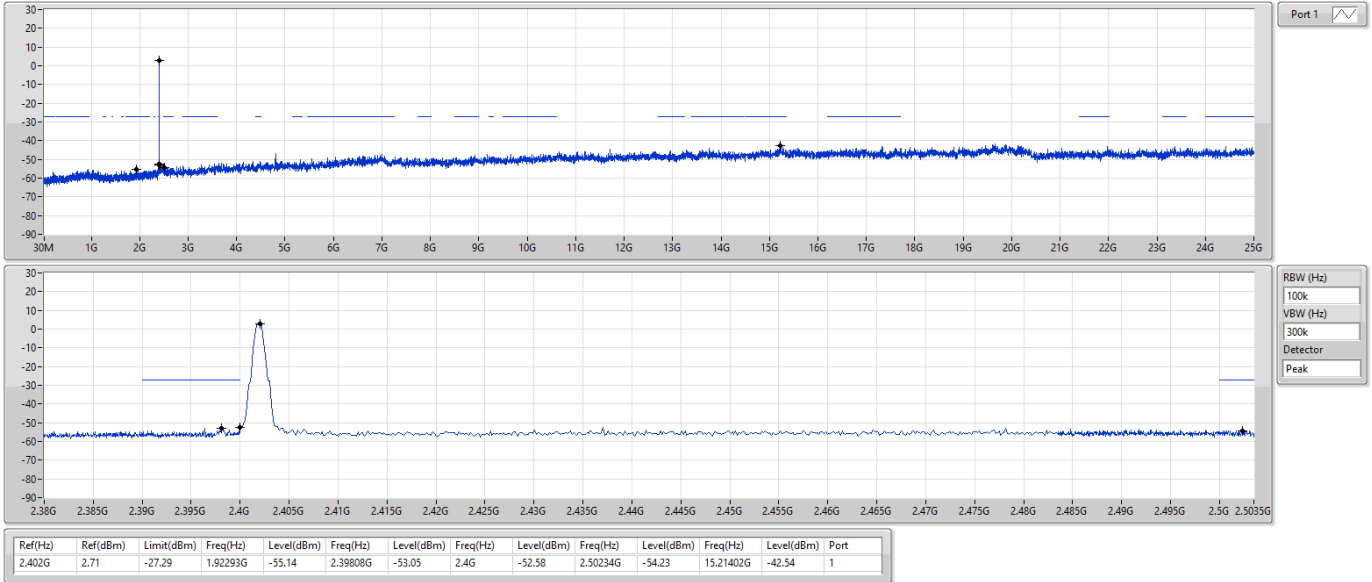
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	2.71	-27.29	1.92293G	-55.14	2.39808G	-53.05	2.4G	-52.58	2.50234G	-54.23	15.21402G	-42.54	1
2440MHz	Pass	2.402G	2.71	-27.29	2.17203G	-55.25	2.39428G	-53.39	2.4G	-55.21	2.5013G	-53.68	21.94329G	-43.29	1
2480MHz	Pass	2.402G	2.71	-27.29	918.3M	-55.28	2.39816G	-54.01	2.4G	-55.79	2.50102G	-53.68	23.3437G	-43.11	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	2.84	-27.16	1.94173G	-55.20	2.4G	-28.23	2.4G	-28.56	2.50178G	-54.11	24.6513G	-42.98	1
2440MHz	Pass	2.402G	2.84	-27.16	1.94055G	-55.26	2.3918G	-54.18	2.4G	-55.73	2.5001G	-53.77	23.414G	-43.20	1
2480MHz	Pass	2.402G	2.84	-27.16	2.00283G	-54.83	2.3916G	-54.01	2.4G	-56.57	2.50078G	-53.64	16.34166G	-43.39	1
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	1.14	-28.86	2.0698G	-55.01	2.39624G	-52.92	2.4G	-54.90	2.50022G	-53.83	24.76379G	-42.61	1
2440MHz	Pass	2.402G	1.14	-28.86	2.14383G	-55.48	2.39456G	-54.44	2.4G	-55.54	2.50222G	-53.56	15.25339G	-43.64	1
2480MHz	Pass	2.402G	1.14	-28.86	398.95M	-55.26	2.39732G	-53.88	2.4G	-55.83	2.50242G	-53.17	24.72442G	-43.22	1
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40167G	2.44	-27.56	1.89708G	-52.97	2.39912G	-52.69	2.4G	-53.64	2.50086G	-53.39	15.22246G	-42.54	1
2440MHz	Pass	2.40167G	2.44	-27.56	898.33M	-55.40	2.39808G	-53.15	2.4G	-55.88	2.50142G	-53.75	24.92126G	-43.22	1
2480MHz	Pass	2.40167G	2.44	-27.56	1.96405G	-54.81	2.39932G	-54.50	2.4G	-56.67	2.50238G	-52.96	15.11279G	-43.32	1

BT-LE(1Mbps)

CSEndB-DTS

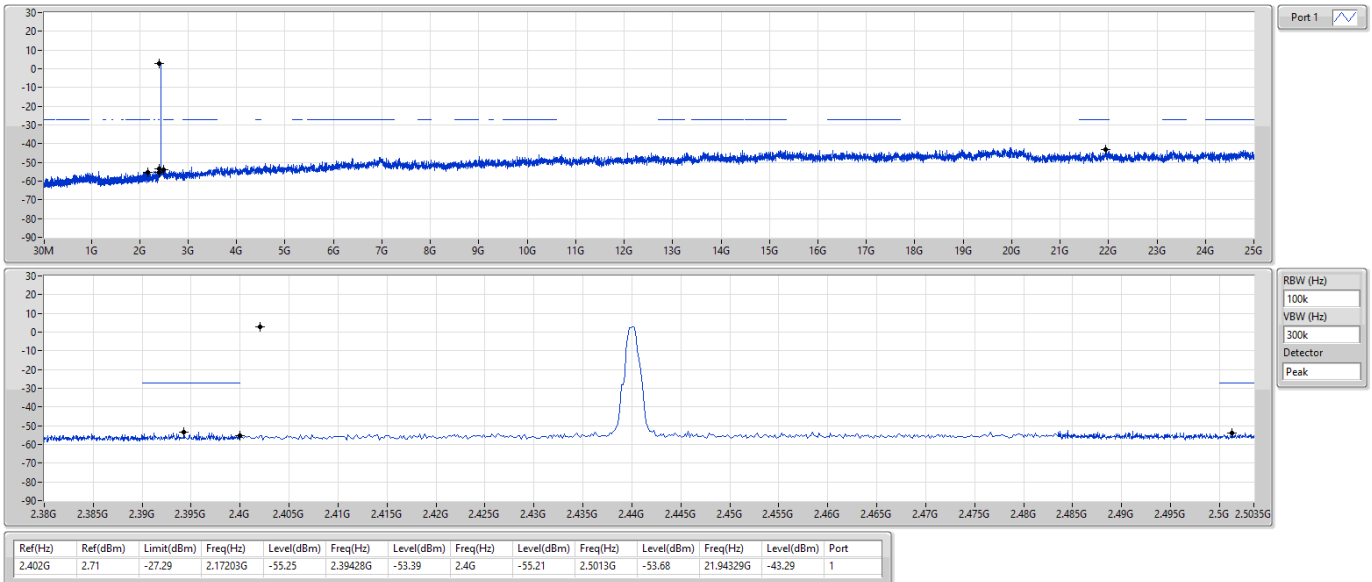
2402MHz



BT-LE(1Mbps)

CSEndB-DTS

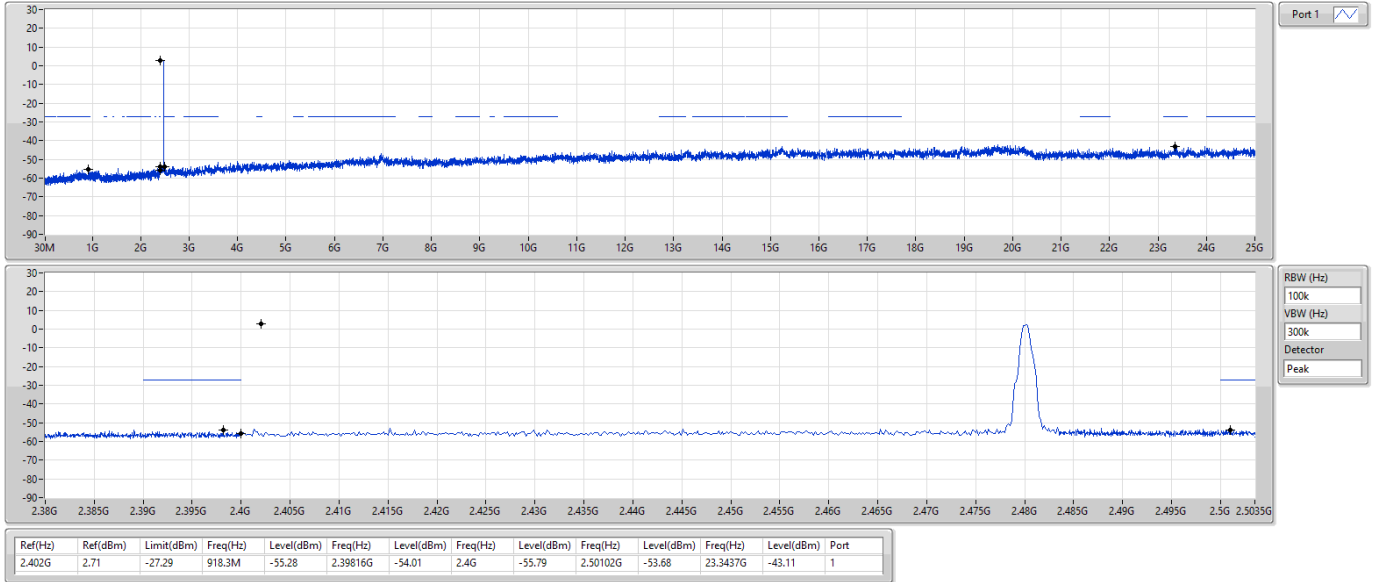
2440MHz



BT-LE(1Mbps)

CSEndB-DTS

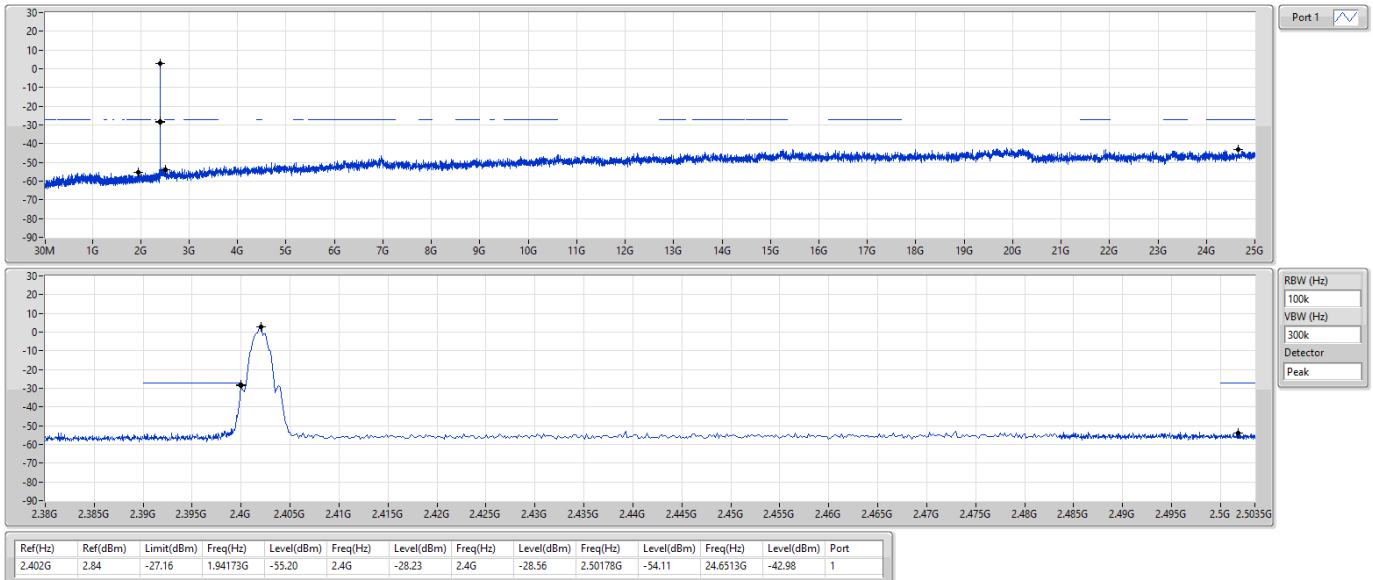
2480MHz



BT-LE(2Mbps)

CSEndB-DTS

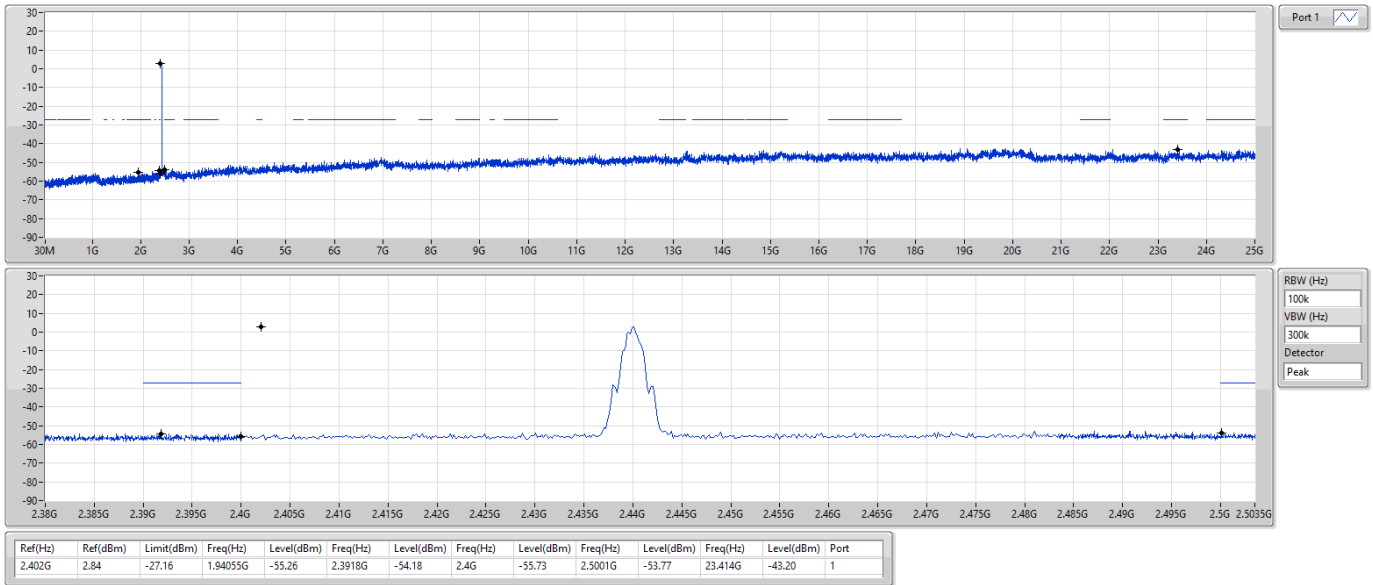
2402MHz



BT-LE(2Mbps)

CSEndB-DTS

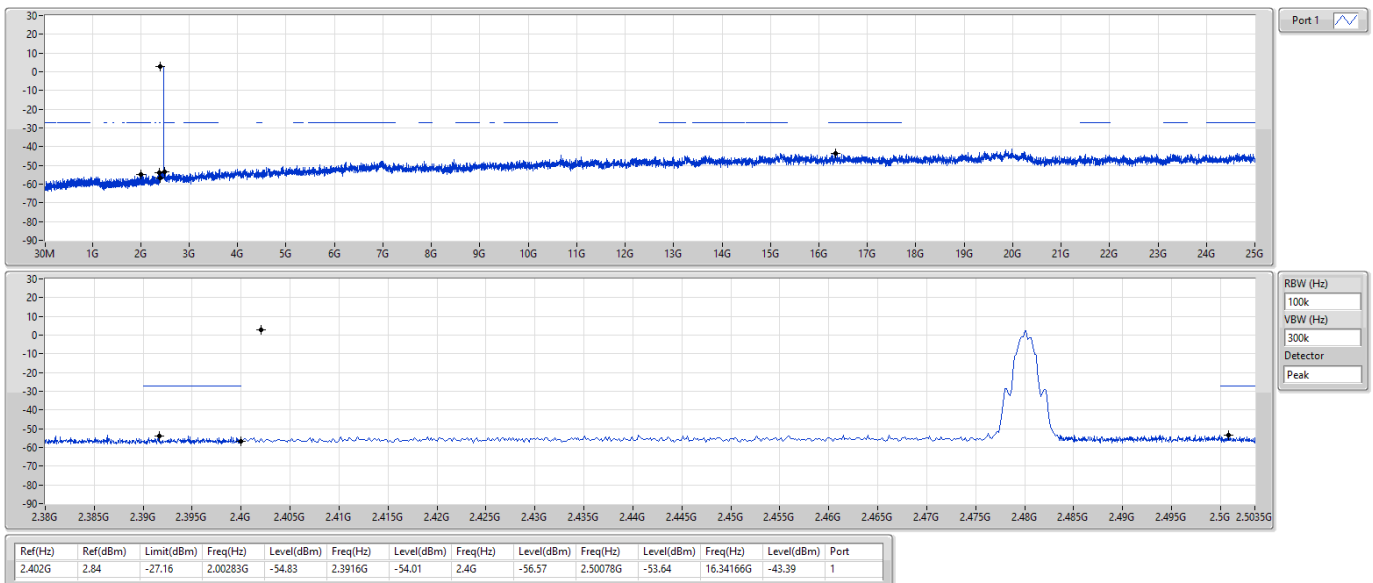
2440MHz



BT-LE(2Mbps)

CSEndB-DTS

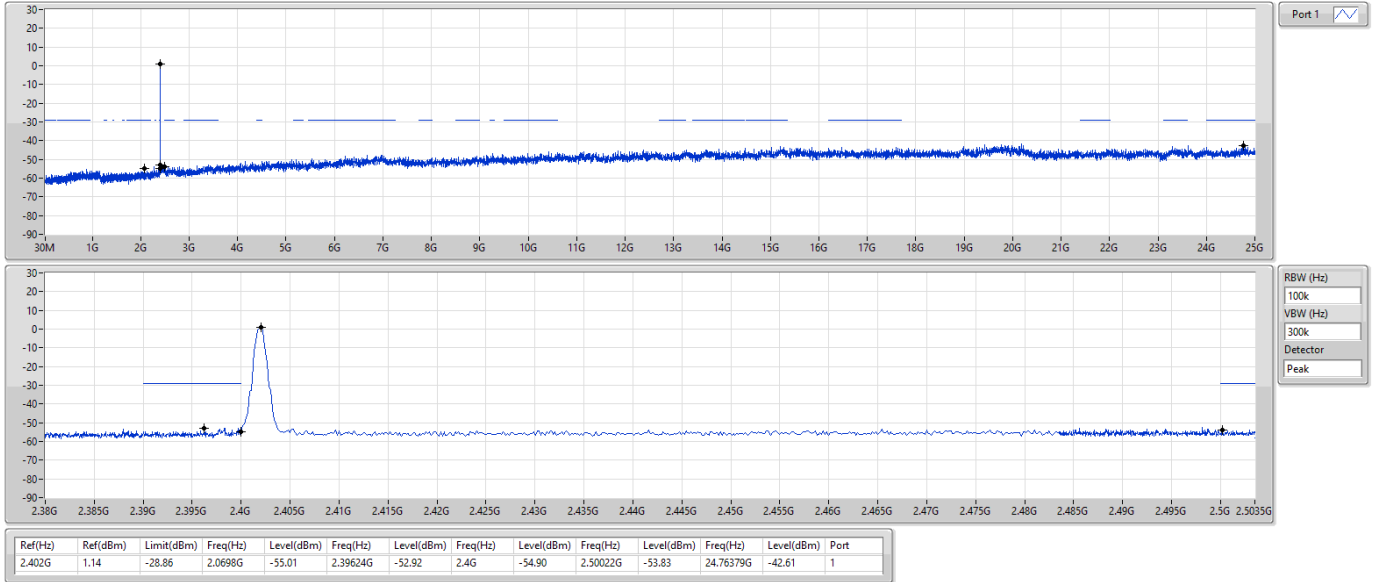
2480MHz



BT-LE(125kbps)

CSEndB-DTS

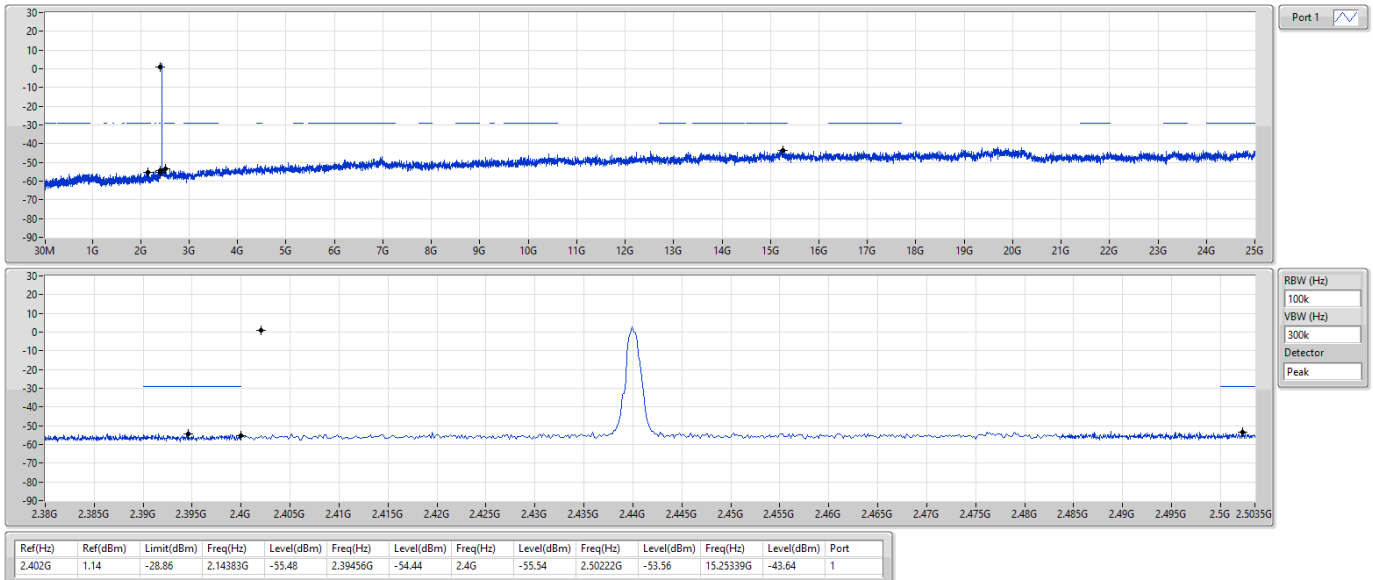
2402MHz



BT-LE(125kbps)

CSEndB-DTS

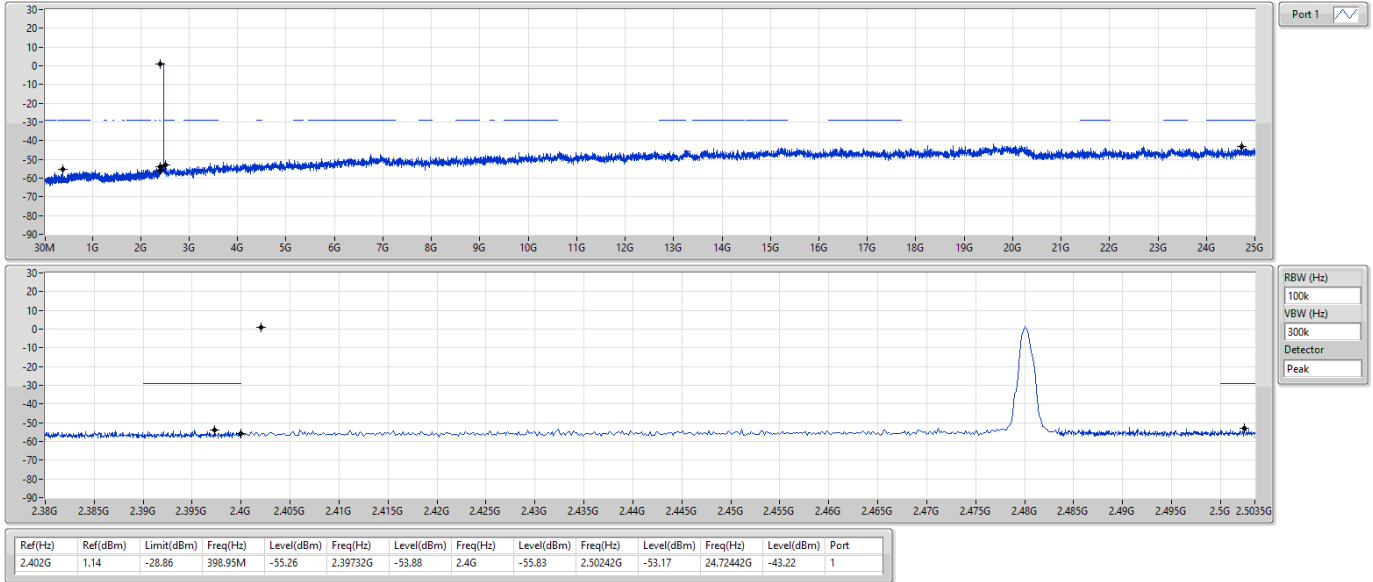
2440MHz



BT-LE(125kbps)

CSEndB-DTS

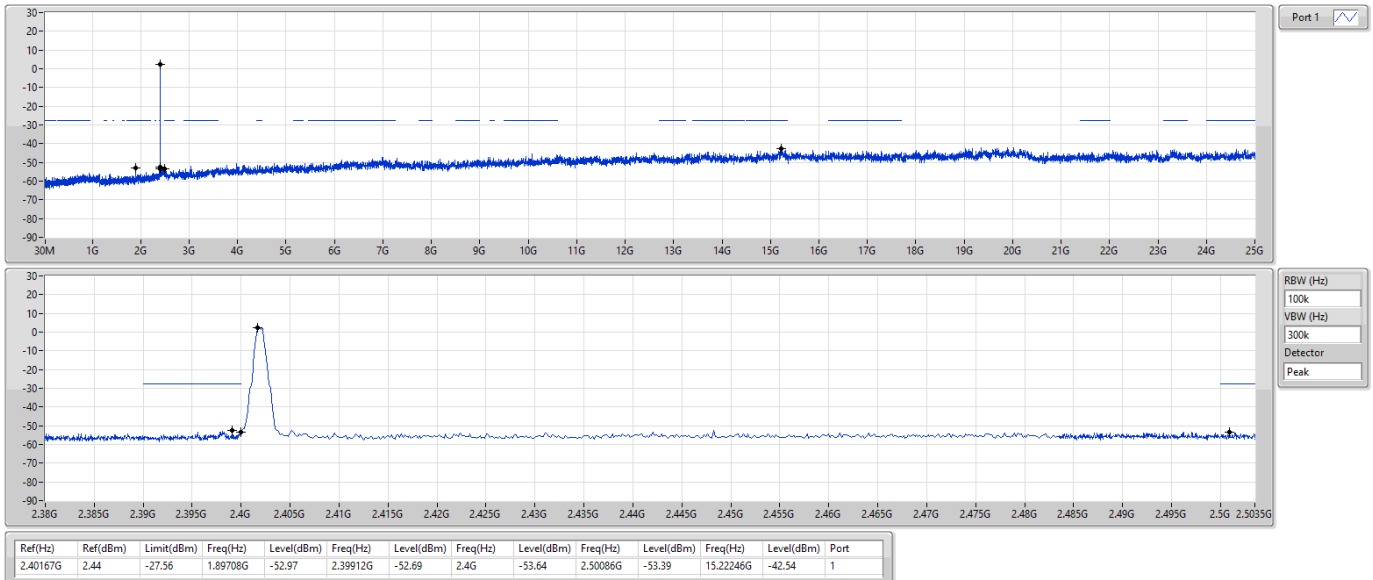
2480MHz



BT-LE(500kbps)

CSEndB-DTS

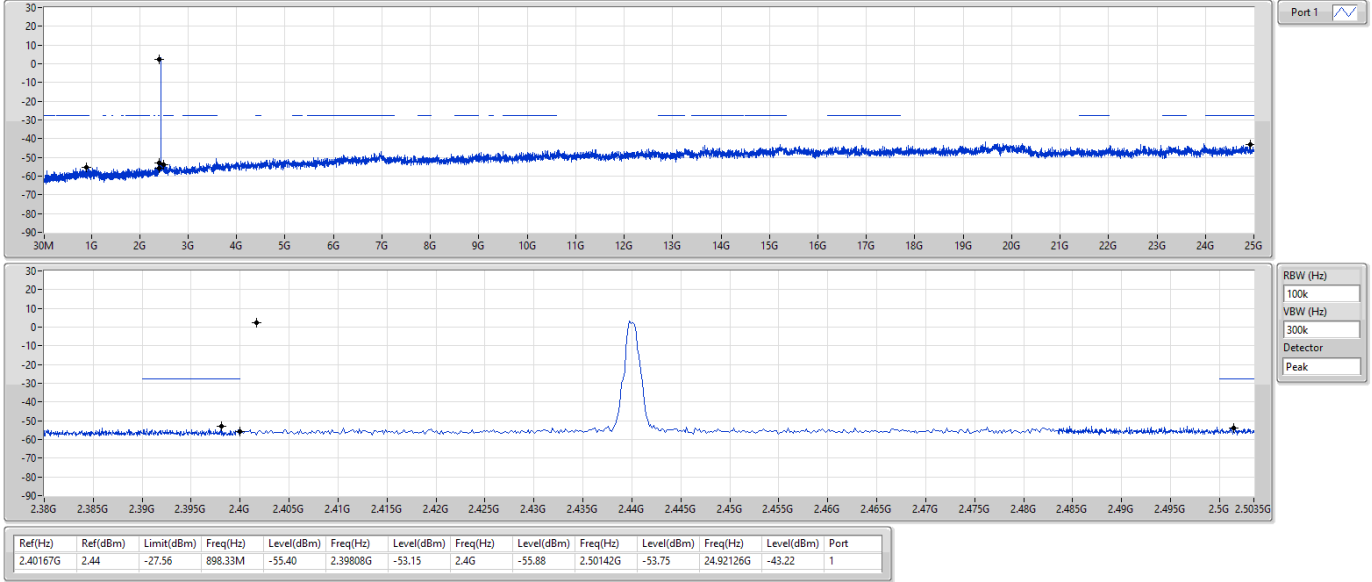
2402MHz



BT-LE(500kbps)

CSEndB-DTS

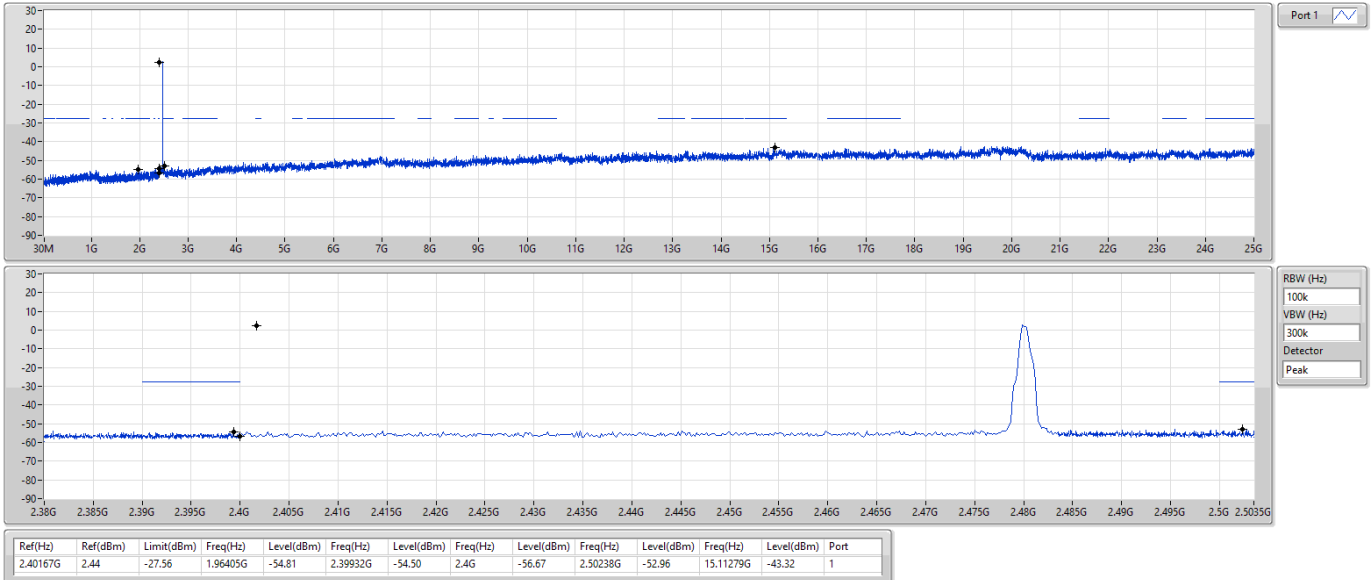
2440MHz



BT-LE(500kbps)

CSEndB-DTS

2480MHz





Summary

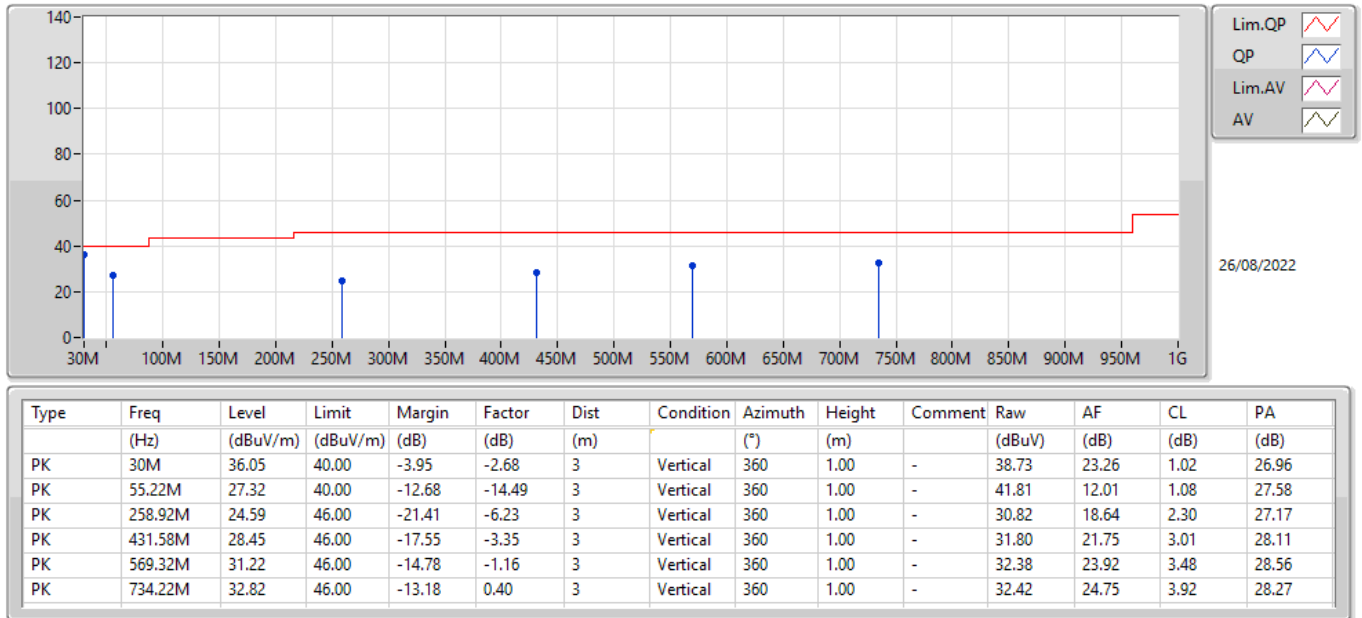
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	30M	36.05	40.00	-3.95	3	Vertical	360	1.00	-

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	30M	36.05	40.00	-3.95	3	Vertical	360	1.00	-
2440MHz	Pass	PK	55.22M	27.32	40.00	-12.68	3	Vertical	360	1.00	-
2440MHz	Pass	PK	258.92M	24.59	46.00	-21.41	3	Vertical	360	1.00	-
2440MHz	Pass	PK	431.58M	28.45	46.00	-17.55	3	Vertical	360	1.00	-
2440MHz	Pass	PK	569.32M	31.22	46.00	-14.78	3	Vertical	360	1.00	-
2440MHz	Pass	PK	734.22M	32.82	46.00	-13.18	3	Vertical	360	1.00	-
2440MHz	Pass	PK	30M	35.51	40.00	-4.49	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	43.58M	34.34	40.00	-5.66	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	119.24M	24.01	43.50	-19.49	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	280.26M	24.50	46.00	-21.50	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	547.98M	30.15	46.00	-15.85	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	613.94M	31.10	46.00	-14.90	3	Horizontal	0	1.00	-

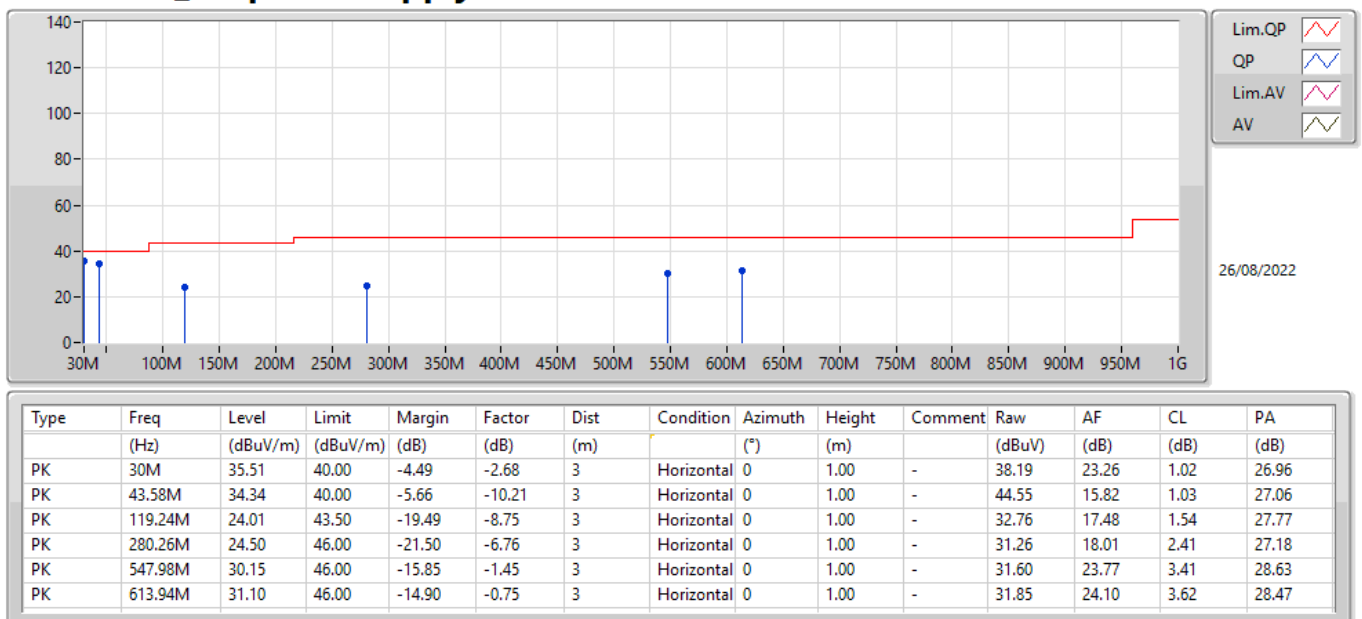
BT-LE(2Mbps)

2440MHz_DC power supply



BT-LE(2Mbps)

2440MHz_DC power supply



**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	52.30	54.00	-1.70	3	Horizontal	340	1.77	-
BT-LE(2Mbps)	Pass	AV	2.4976G	51.08	54.00	-2.92	3	Vertical	58	1.77	-
BT-LE(125kbps)	Pass	AV	2.4835G	51.44	54.00	-2.56	3	Horizontal	342	1.77	-
BT-LE(500kbps)	Pass	AV	2.4835G	51.78	54.00	-2.22	3	Horizontal	341	1.78	-

Result

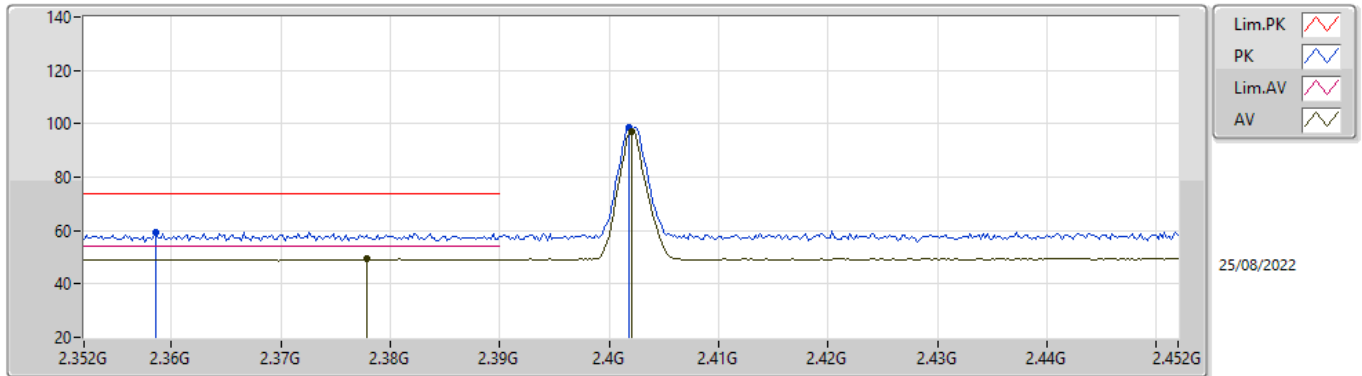
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3778G	49.25	54.00	-4.75	3	Vertical	58	2.59	-
2402MHz	Pass	AV	2.402G	97.15	Inf	-Inf	3	Vertical	58	2.59	-
2402MHz	Pass	PK	2.3586G	59.39	74.00	-14.61	3	Vertical	58	2.59	-
2402MHz	Pass	PK	2.4018G	98.42	Inf	-Inf	3	Vertical	58	2.59	-
2402MHz	Pass	AV	2.3842G	49.45	54.00	-4.55	3	Horizontal	329	2.03	-
2402MHz	Pass	AV	2.402G	98.43	Inf	-Inf	3	Horizontal	329	2.03	-
2402MHz	Pass	PK	2.3654G	59.50	74.00	-14.50	3	Horizontal	329	2.03	-
2402MHz	Pass	PK	2.4018G	99.72	Inf	-Inf	3	Horizontal	329	2.03	-
2402MHz	Pass	AV	4.80399G	43.94	54.00	-10.06	3	Vertical	53	2.22	-
2402MHz	Pass	PK	4.8046G	52.13	74.00	-21.87	3	Vertical	53	2.22	-
2402MHz	Pass	AV	4.804G	44.09	54.00	-9.91	3	Horizontal	32	1.01	-
2402MHz	Pass	PK	4.80355G	50.76	74.00	-23.24	3	Horizontal	32	1.01	-
2402MHz	Pass	AV	2.3544G	49.21	54.00	-4.79	3	Vertical	9	1.20	-
2440MHz	Pass	AV	2.44G	98.03	Inf	-Inf	3	Vertical	9	1.20	-
2440MHz	Pass	AV	2.4912G	49.74	54.00	-4.26	3	Vertical	9	1.20	-
2440MHz	Pass	PK	2.3468G	59.99	74.00	-14.01	3	Vertical	9	1.20	-
2440MHz	Pass	PK	2.44G	99.44	Inf	-Inf	3	Vertical	9	1.20	-
2440MHz	Pass	PK	2.4936G	59.85	74.00	-14.15	3	Vertical	9	1.20	-
2440MHz	Pass	AV	2.3536G	49.35	54.00	-4.65	3	Horizontal	339	1.29	-
2440MHz	Pass	AV	2.44G	98.97	Inf	-Inf	3	Horizontal	339	1.29	-
2440MHz	Pass	AV	2.4876G	49.76	54.00	-4.24	3	Horizontal	339	1.29	-
2440MHz	Pass	PK	2.3596G	58.46	74.00	-15.54	3	Horizontal	339	1.29	-
2440MHz	Pass	PK	2.44G	100.34	Inf	-Inf	3	Horizontal	339	1.29	-
2440MHz	Pass	PK	2.49G	60.45	74.00	-13.55	3	Horizontal	339	1.29	-
2440MHz	Pass	AV	4.87997G	38.38	54.00	-15.62	3	Vertical	55	1.50	-
2440MHz	Pass	PK	4.87955G	46.42	74.00	-27.58	3	Vertical	55	1.50	-
2440MHz	Pass	AV	4.88006G	43.16	54.00	-10.84	3	Horizontal	45	1.05	-
2440MHz	Pass	PK	4.87965G	49.28	74.00	-24.72	3	Horizontal	45	1.05	-
2480MHz	Pass	AV	2.48G	98.13	Inf	-Inf	3	Vertical	67	1.24	-
2480MHz	Pass	AV	2.4835G	51.54	54.00	-2.46	3	Vertical	67	1.24	-
2480MHz	Pass	PK	2.4798G	99.38	Inf	-Inf	3	Vertical	67	1.24	-
2480MHz	Pass	PK	2.4916G	60.12	74.00	-13.88	3	Vertical	67	1.24	-
2480MHz	Pass	AV	2.48G	99.63	Inf	-Inf	3	Horizontal	340	1.77	-
2480MHz	Pass	AV	2.4835G	52.30	54.00	-1.70	3	Horizontal	340	1.77	-
2480MHz	Pass	PK	2.4802G	100.98	Inf	-Inf	3	Horizontal	340	1.77	-
2480MHz	Pass	PK	2.4912G	60.12	74.00	-13.88	3	Horizontal	340	1.77	-
2480MHz	Pass	AV	4.96002G	41.82	54.00	-12.18	3	Vertical	65	1.29	-
2480MHz	Pass	PK	4.95968G	49.58	74.00	-24.42	3	Vertical	65	1.29	-
2480MHz	Pass	AV	4.96001G	43.04	54.00	-10.96	3	Horizontal	48	1.00	-
2480MHz	Pass	PK	4.95944G	49.03	74.00	-24.97	3	Horizontal	48	1.00	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3622G	50.14	54.00	-3.86	3	Vertical	58	2.90	-
2402MHz	Pass	AV	2.4022G	94.83	Inf	-Inf	3	Vertical	58	2.90	-
2402MHz	Pass	PK	2.3878G	59.30	74.00	-14.70	3	Vertical	58	2.90	-
2402MHz	Pass	PK	2.4016G	97.47	Inf	-Inf	3	Vertical	58	2.90	-
2402MHz	Pass	AV	2.3542G	50.24	54.00	-3.76	3	Horizontal	230	2.02	-
2402MHz	Pass	AV	2.402G	94.52	Inf	-Inf	3	Horizontal	230	2.02	-
2402MHz	Pass	PK	2.3722G	59.67	74.00	-14.33	3	Horizontal	230	2.02	-
2402MHz	Pass	PK	2.4016G	97.23	Inf	-Inf	3	Horizontal	230	2.02	-
2402MHz	Pass	AV	4.80397G	44.74	54.00	-9.26	3	Vertical	248	1.03	-
2402MHz	Pass	PK	4.8035G	50.01	74.00	-23.99	3	Vertical	248	1.03	-
2402MHz	Pass	AV	4.80405G	42.66	54.00	-11.34	3	Horizontal	62	1.00	-
2402MHz	Pass	PK	4.80508G	48.22	74.00	-25.78	3	Horizontal	62	1.00	-
2440MHz	Pass	AV	2.3556G	50.23	54.00	-3.77	3	Vertical	58	1.77	-
2440MHz	Pass	AV	2.44G	93.34	Inf	-Inf	3	Vertical	58	1.77	-
2440MHz	Pass	AV	2.4976G	51.08	54.00	-2.92	3	Vertical	58	1.77	-
2440MHz	Pass	PK	2.372G	59.72	74.00	-14.28	3	Vertical	58	1.77	-
2440MHz	Pass	PK	2.4408G	96.26	Inf	-Inf	3	Vertical	58	1.77	-
2440MHz	Pass	PK	2.4984G	59.92	74.00	-14.08	3	Vertical	58	1.77	-
2440MHz	Pass	AV	2.3412G	50.25	54.00	-3.75	3	Horizontal	336	2.49	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.44G	95.50	Inf	-Inf	3	Horizontal	336	2.49	-
2440MHz	Pass	AV	2.4872G	50.73	54.00	-3.27	3	Horizontal	336	2.49	-
2440MHz	Pass	PK	2.3772G	59.65	74.00	-14.35	3	Horizontal	336	2.49	-
2440MHz	Pass	PK	2.4404G	98.19	Inf	-Inf	3	Horizontal	336	2.49	-
2440MHz	Pass	PK	2.4864G	60.25	74.00	-13.75	3	Horizontal	336	2.49	-
2440MHz	Pass	AV	4.88003G	44.57	54.00	-9.43	3	Vertical	54	1.50	-
2440MHz	Pass	PK	4.87999G	49.89	74.00	-24.11	3	Vertical	54	1.50	-
2440MHz	Pass	AV	4.88G	44.36	54.00	-9.64	3	Horizontal	34	1.01	-
2440MHz	Pass	PK	4.8799G	48.84	74.00	-25.16	3	Horizontal	34	1.01	-
2480MHz	Pass	AV	2.48G	95.14	Inf	-Inf	3	Vertical	154	1.50	-
2480MHz	Pass	AV	2.4835G	50.27	54.00	-3.73	3	Vertical	154	1.50	-
2480MHz	Pass	PK	2.4796G	97.89	Inf	-Inf	3	Vertical	154	1.50	-
2480MHz	Pass	PK	2.4906G	60.25	74.00	-13.75	3	Vertical	154	1.50	-
2480MHz	Pass	AV	2.48G	94.02	Inf	-Inf	3	Horizontal	240	1.26	-
2480MHz	Pass	AV	2.4835G	50.16	54.00	-3.84	3	Horizontal	240	1.26	-
2480MHz	Pass	PK	2.4796G	96.86	Inf	-Inf	3	Horizontal	240	1.26	-
2480MHz	Pass	PK	2.4884G	59.50	74.00	-14.50	3	Horizontal	240	1.26	-
2480MHz	Pass	AV	4.95997G	42.35	54.00	-11.65	3	Vertical	73	1.02	-
2480MHz	Pass	PK	4.95888G	48.88	74.00	-25.12	3	Vertical	73	1.02	-
2480MHz	Pass	AV	4.96G	41.67	54.00	-12.33	3	Horizontal	41	1.00	-
2480MHz	Pass	PK	4.95996G	47.49	74.00	-26.51	3	Horizontal	41	1.00	-
BT-LE(125kpbs)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3866G	48.92	54.00	-5.08	3	Vertical	57	1.88	-
2402MHz	Pass	AV	2.402G	95.35	Inf	-Inf	3	Vertical	57	1.88	-
2402MHz	Pass	PK	2.3608G	59.89	74.00	-14.11	3	Vertical	57	1.88	-
2402MHz	Pass	PK	2.4018G	96.92	Inf	-Inf	3	Vertical	57	1.88	-
2402MHz	Pass	AV	2.3782G	48.87	54.00	-5.13	3	Horizontal	331	2.05	-
2402MHz	Pass	AV	2.402G	98.26	Inf	-Inf	3	Horizontal	331	2.05	-
2402MHz	Pass	PK	2.3534G	59.82	74.00	-14.18	3	Horizontal	331	2.05	-
2402MHz	Pass	PK	2.4018G	99.89	Inf	-Inf	3	Horizontal	331	2.05	-
2402MHz	Pass	AV	4.80413G	42.88	54.00	-11.12	3	Vertical	52	1.53	-
2402MHz	Pass	PK	4.80364G	51.70	74.00	-22.30	3	Vertical	52	1.53	-
2402MHz	Pass	AV	4.80414G	41.72	54.00	-12.28	3	Horizontal	32	1.00	-
2402MHz	Pass	PK	4.8036G	50.63	74.00	-23.37	3	Horizontal	32	1.00	-
2440MHz	Pass	AV	2.3848G	48.86	54.00	-5.14	3	Vertical	59	1.76	-
2440MHz	Pass	AV	2.44G	96.62	Inf	-Inf	3	Vertical	59	1.76	-
2440MHz	Pass	AV	2.4944G	49.39	54.00	-4.61	3	Vertical	59	1.76	-
2440MHz	Pass	PK	2.3796G	58.93	74.00	-15.07	3	Vertical	59	1.76	-
2440MHz	Pass	PK	2.4404G	98.25	Inf	-Inf	3	Vertical	59	1.76	-
2440MHz	Pass	PK	2.4984G	59.90	74.00	-14.10	3	Vertical	59	1.76	-
2440MHz	Pass	AV	2.3584G	48.85	54.00	-5.15	3	Horizontal	334	2.49	-
2440MHz	Pass	AV	2.44G	98.13	Inf	-Inf	3	Horizontal	334	2.49	-
2440MHz	Pass	AV	2.4884G	49.50	54.00	-4.50	3	Horizontal	334	2.49	-
2440MHz	Pass	PK	2.3764G	59.33	74.00	-14.67	3	Horizontal	334	2.49	-
2440MHz	Pass	PK	2.4404G	99.73	Inf	-Inf	3	Horizontal	334	2.49	-
2440MHz	Pass	PK	2.486G	59.63	74.00	-14.37	3	Horizontal	334	2.49	-
2440MHz	Pass	AV	4.88011G	40.95	54.00	-13.05	3	Vertical	54	1.49	-
2440MHz	Pass	PK	4.87963G	50.27	74.00	-23.73	3	Vertical	54	1.49	-
2440MHz	Pass	AV	4.88006G	39.85	54.00	-14.15	3	Horizontal	34	1.02	-
2440MHz	Pass	PK	4.87959G	49.74	74.00	-24.26	3	Horizontal	34	1.02	-
2480MHz	Pass	AV	2.48G	95.90	Inf	-Inf	3	Vertical	58	1.60	-
2480MHz	Pass	AV	2.4835G	50.99	54.00	-3.01	3	Vertical	58	1.60	-
2480MHz	Pass	PK	2.4798G	97.50	Inf	-Inf	3	Vertical	58	1.60	-
2480MHz	Pass	PK	2.4976G	59.77	74.00	-14.23	3	Vertical	58	1.60	-
2480MHz	Pass	AV	2.48G	97.28	Inf	-Inf	3	Horizontal	342	1.77	-
2480MHz	Pass	AV	2.4835G	51.44	54.00	-2.56	3	Horizontal	342	1.77	-
2480MHz	Pass	PK	2.4798G	98.91	Inf	-Inf	3	Horizontal	342	1.77	-
2480MHz	Pass	PK	2.485G	59.95	74.00	-14.05	3	Horizontal	342	1.77	-
2480MHz	Pass	AV	4.96012G	39.72	54.00	-14.28	3	Vertical	51	1.50	-
2480MHz	Pass	PK	4.9603G	49.81	74.00	-24.19	3	Vertical	51	1.50	-
2480MHz	Pass	AV	4.9602G	38.44	54.00	-15.56	3	Horizontal	50	1.00	-
2480MHz	Pass	PK	4.96038G	49.05	74.00	-24.95	3	Horizontal	50	1.00	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(500kpbs)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.372G	48.85	54.00	-5.15	3	Vertical	58	2.59	-
2402MHz	Pass	AV	2.402G	94.06	Inf	-Inf	3	Vertical	58	2.59	-
2402MHz	Pass	PK	2.3826G	60.31	74.00	-13.69	3	Vertical	58	2.59	-
2402MHz	Pass	PK	2.4018G	95.55	Inf	-Inf	3	Vertical	58	2.59	-
2402MHz	Pass	AV	2.3572G	48.90	54.00	-5.10	3	Horizontal	331	2.05	-
2402MHz	Pass	AV	2.402G	98.12	Inf	-Inf	3	Horizontal	331	2.05	-
2402MHz	Pass	PK	2.381G	59.58	74.00	-14.42	3	Horizontal	331	2.05	-
2402MHz	Pass	PK	2.4018G	99.66	Inf	-Inf	3	Horizontal	331	2.05	-
2402MHz	Pass	AV	4.80404G	43.52	54.00	-10.48	3	Vertical	53	2.22	-
2402MHz	Pass	PK	4.80357G	51.55	74.00	-22.45	3	Vertical	53	2.22	-
2402MHz	Pass	AV	4.80409G	42.56	54.00	-11.44	3	Horizontal	32	1.00	-
2402MHz	Pass	PK	4.80456G	50.86	74.00	-23.14	3	Horizontal	32	1.00	-
2440MHz	Pass	AV	2.3832G	48.88	54.00	-5.12	3	Vertical	60	1.77	-
2440MHz	Pass	AV	2.44G	96.21	Inf	-Inf	3	Vertical	60	1.77	-
2440MHz	Pass	AV	2.4892G	49.44	54.00	-4.56	3	Vertical	60	1.77	-
2440MHz	Pass	PK	2.3784G	59.28	74.00	-14.72	3	Vertical	60	1.77	-
2440MHz	Pass	PK	2.4404G	97.69	Inf	-Inf	3	Vertical	60	1.77	-
2440MHz	Pass	PK	2.492G	60.85	74.00	-13.15	3	Vertical	60	1.77	-
2440MHz	Pass	AV	2.3856G	48.89	54.00	-5.11	3	Horizontal	332	2.49	-
2440MHz	Pass	AV	2.44G	98.78	Inf	-Inf	3	Horizontal	332	2.49	-
2440MHz	Pass	AV	2.4892G	49.44	54.00	-4.56	3	Horizontal	332	2.49	-
2440MHz	Pass	PK	2.3436G	59.43	74.00	-14.57	3	Horizontal	332	2.49	-
2440MHz	Pass	PK	2.44G	100.22	Inf	-Inf	3	Horizontal	332	2.49	-
2440MHz	Pass	PK	2.4904G	59.48	74.00	-14.52	3	Horizontal	332	2.49	-
2440MHz	Pass	AV	4.88G	42.21	54.00	-11.79	3	Vertical	55	1.82	-
2440MHz	Pass	PK	4.88048G	50.64	74.00	-23.36	3	Vertical	55	1.82	-
2440MHz	Pass	AV	4.88012G	40.25	54.00	-13.75	3	Horizontal	34	1.00	-
2440MHz	Pass	PK	4.88051G	49.66	74.00	-24.34	3	Horizontal	34	1.00	-
2480MHz	Pass	AV	2.4802G	97.05	Inf	-Inf	3	Vertical	59	1.60	-
2480MHz	Pass	AV	2.4835G	51.11	54.00	-2.89	3	Vertical	59	1.60	-
2480MHz	Pass	PK	2.4798G	98.55	Inf	-Inf	3	Vertical	59	1.60	-
2480MHz	Pass	PK	2.4892G	59.72	74.00	-14.28	3	Vertical	59	1.60	-
2480MHz	Pass	AV	2.4802G	98.18	Inf	-Inf	3	Horizontal	341	1.78	-
2480MHz	Pass	AV	2.4835G	51.78	54.00	-2.22	3	Horizontal	341	1.78	-
2480MHz	Pass	PK	2.4798G	99.75	Inf	-Inf	3	Horizontal	341	1.78	-
2480MHz	Pass	PK	2.4908G	60.04	74.00	-13.96	3	Horizontal	341	1.78	-
2480MHz	Pass	AV	4.96007G	40.44	54.00	-13.56	3	Vertical	47	1.50	-
2480MHz	Pass	PK	4.9606G	49.87	74.00	-24.13	3	Vertical	47	1.50	-
2480MHz	Pass	AV	4.95999G	38.77	54.00	-15.23	3	Horizontal	50	1.00	-
2480MHz	Pass	PK	4.9597G	48.85	74.00	-25.15	3	Horizontal	50	1.00	-

BT-LE(1Mbps)

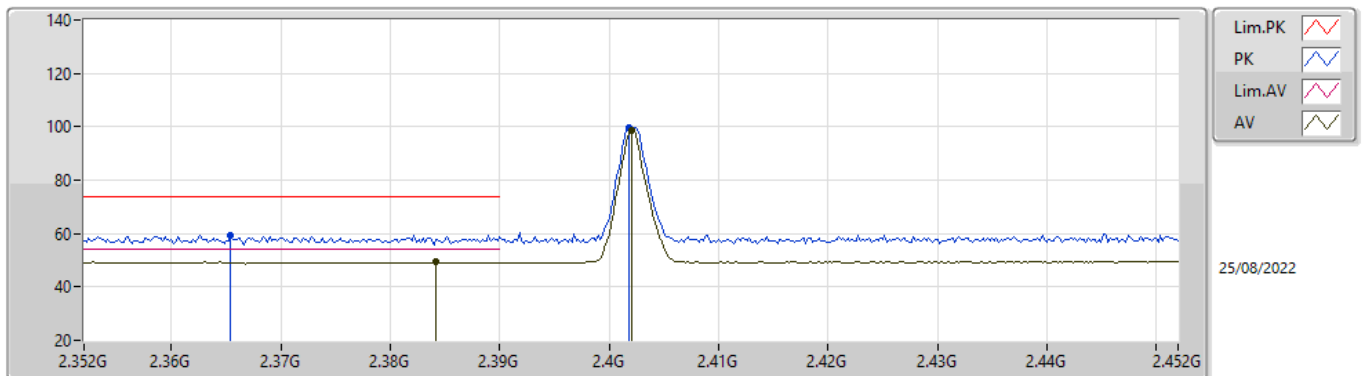
2402MHz_TX



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	2.3778G	49.25	54.00	-4.75	35.53	3	Vertical	58	2.59	-	13.72	27.26	8.27	-
AV	2.402G	97.15	Inf	-Inf	35.60	3	Vertical	58	2.59	-	61.55	27.31	8.29	-
PK	2.3586G	59.39	74.00	-14.61	35.48	3	Vertical	58	2.59	-	23.91	27.22	8.26	-
PK	2.4018G	98.42	Inf	-Inf	35.60	3	Vertical	58	2.59	-	62.82	27.31	8.29	-

BT-LE(1Mbps)

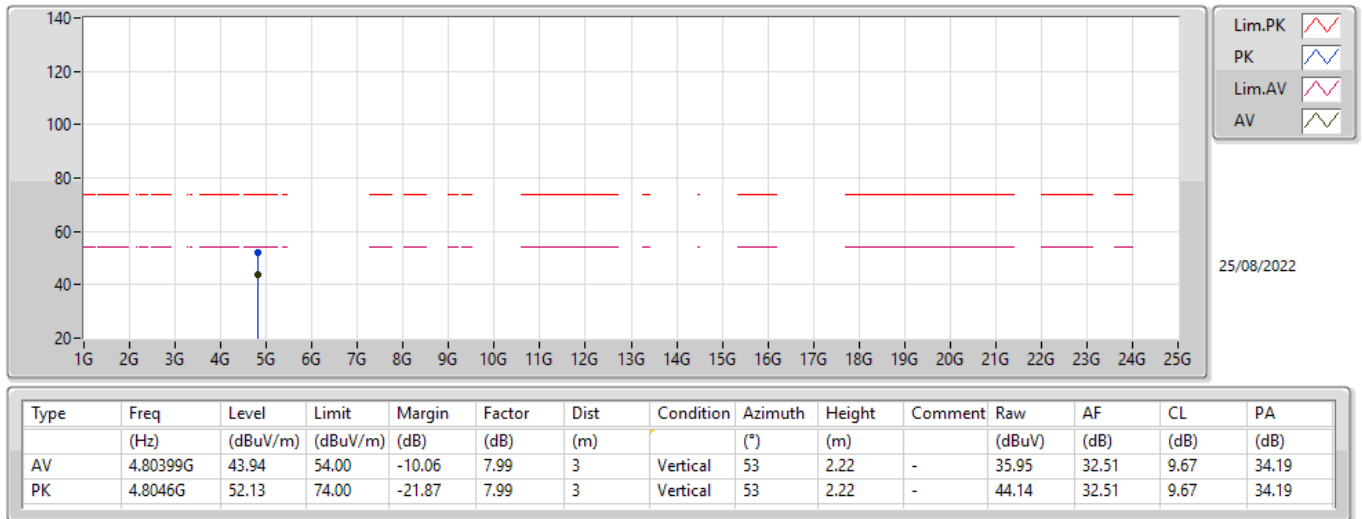
2402MHz_TX



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	2.3842G	49.45	54.00	-4.55	35.55	3	Horizontal	329	2.03	-	13.90	27.27	8.28	-
AV	2.402G	98.43	Inf	-Inf	35.60	3	Horizontal	329	2.03	-	62.83	27.31	8.29	-
PK	2.3654G	59.50	74.00	-14.50	35.49	3	Horizontal	329	2.03	-	24.01	27.23	8.26	-
PK	2.4018G	99.72	Inf	-Inf	35.60	3	Horizontal	329	2.03	-	64.12	27.31	8.29	-

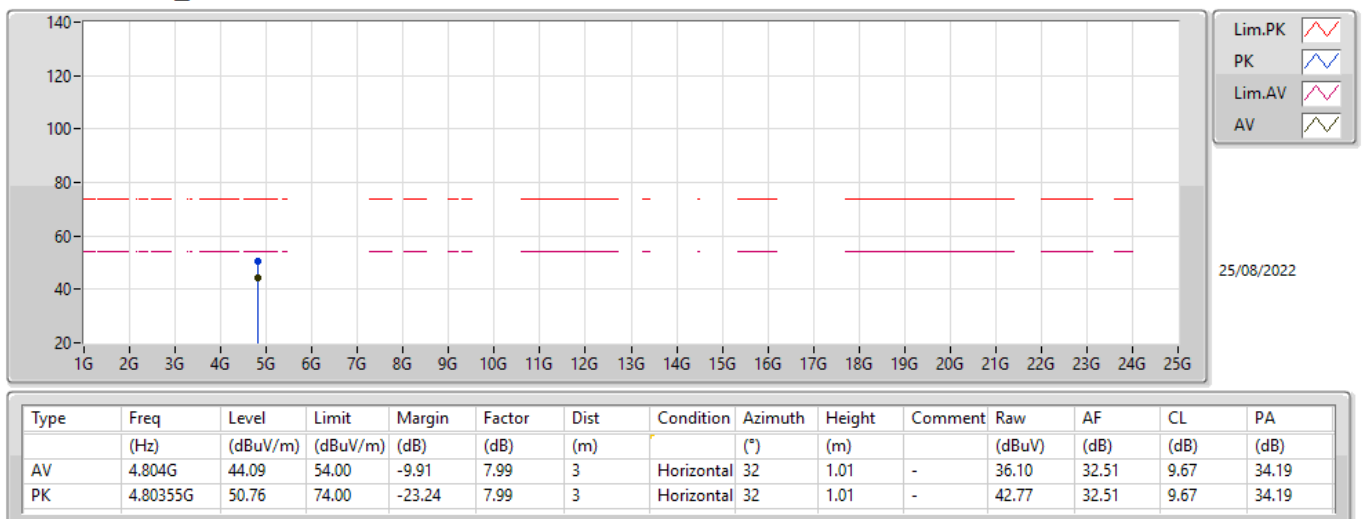
BT-LE(1Mbps)

2402MHz_TX



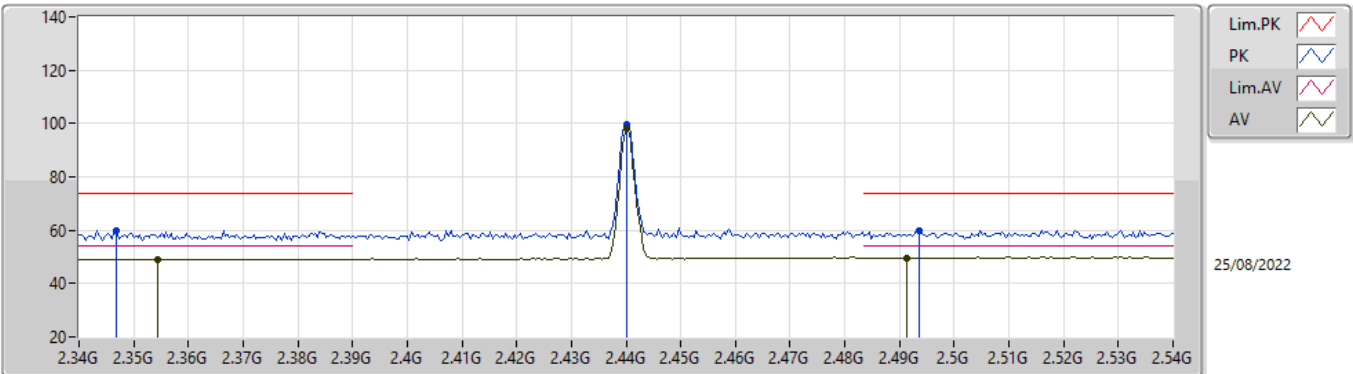
BT-LE(1Mbps)

2402MHz_TX



BT-LE(1Mbps)

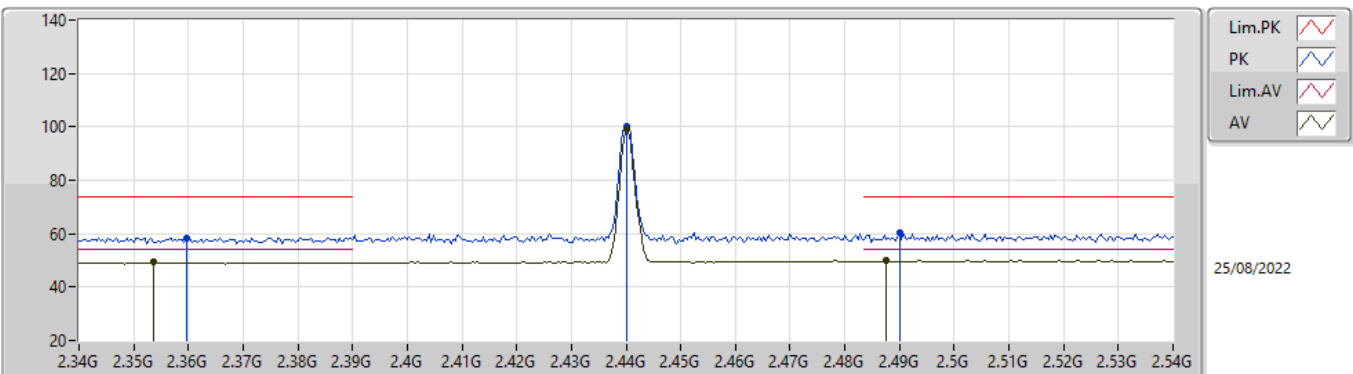
2440MHz_TX



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	2.3544G	49.21	54.00	-4.79	35.47	3	Vertical	9	1.20	-	13.74	27.21	8.26	-
AV	2.44G	98.03	Inf	-Inf	35.78	3	Vertical	9	1.20	-	62.25	27.46	8.32	-
AV	2.4912G	49.74	54.00	-4.26	36.10	3	Vertical	9	1.20	-	13.64	27.75	8.35	-
PK	2.3468G	59.99	74.00	-14.01	35.44	3	Vertical	9	1.20	-	24.55	27.19	8.25	-
PK	2.44G	99.44	Inf	-Inf	35.78	3	Vertical	9	1.20	-	63.66	27.46	8.32	-
PK	2.4936G	59.85	74.00	-14.15	36.11	3	Vertical	9	1.20	-	23.74	27.76	8.35	-

BT-LE(1Mbps)

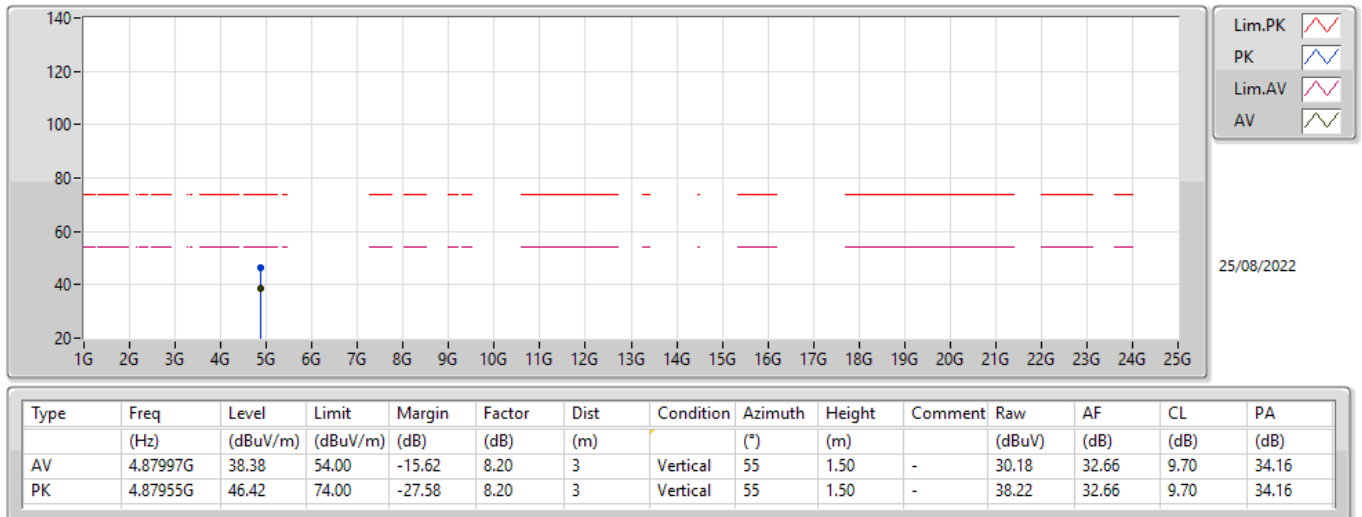
2440MHz_TX



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	2.3536G	49.35	54.00	-4.65	35.47	3	Horizontal	339	1.29	-	13.88	27.21	8.26	-
AV	2.44G	98.97	Inf	-Inf	35.78	3	Horizontal	339	1.29	-	63.19	27.46	8.32	-
AV	2.4876G	49.76	54.00	-4.24	36.08	3	Horizontal	339	1.29	-	13.68	27.73	8.35	-
PK	2.3596G	58.46	74.00	-15.54	35.48	3	Horizontal	339	1.29	-	22.98	27.22	8.26	-
PK	2.44G	100.34	Inf	-Inf	35.78	3	Horizontal	339	1.29	-	64.56	27.46	8.32	-
PK	2.49G	60.45	74.00	-13.55	36.09	3	Horizontal	339	1.29	-	24.36	27.74	8.35	-

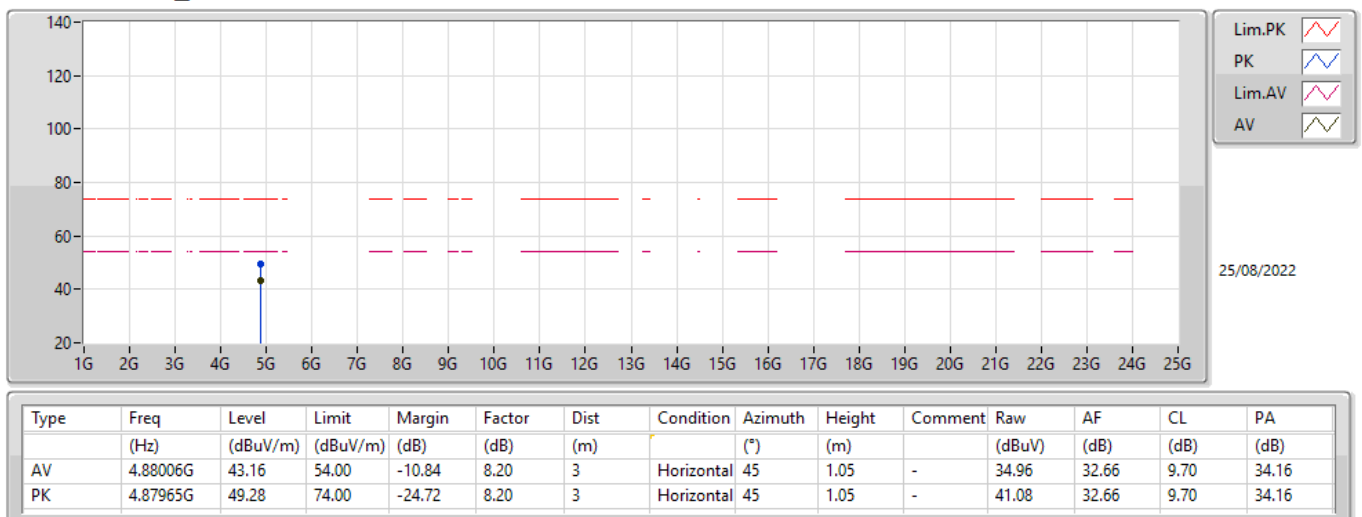
BT-LE(1Mbps)

2440MHz_TX



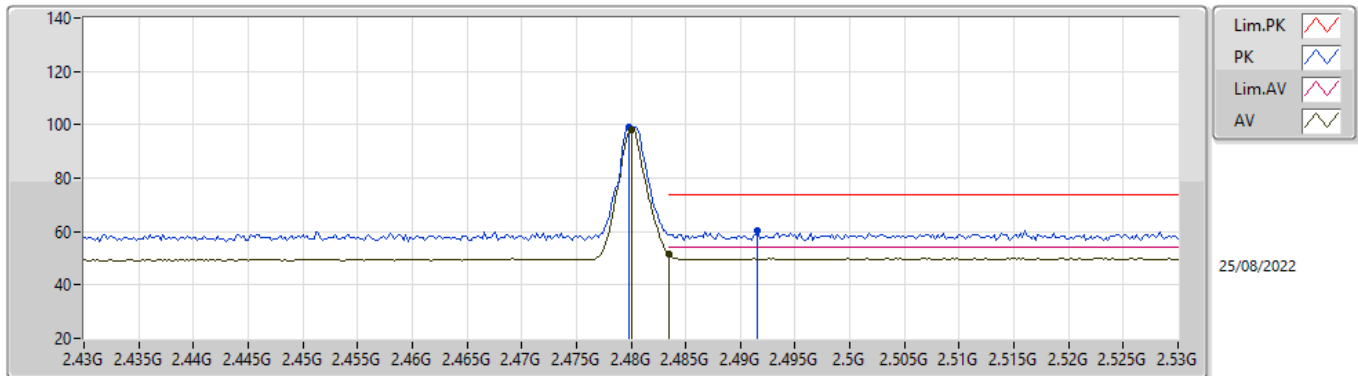
BT-LE(1Mbps)

2440MHz_TX



BT-LE(1Mbps)

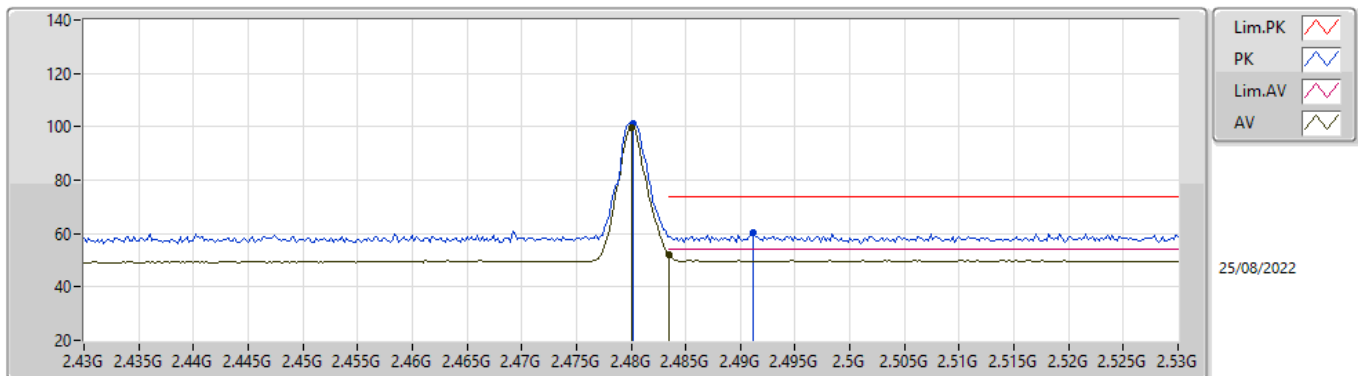
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	98.13	Inf	-Inf	36.02	3	Vertical	67	1.24	-	62.11	27.68	8.34	-
AV	2.4835G	51.54	54.00	-2.46	36.04	3	Vertical	67	1.24	-	15.50	27.70	8.34	-
PK	2.4798G	99.38	Inf	-Inf	36.02	3	Vertical	67	1.24	-	63.36	27.68	8.34	-
PK	2.4916G	60.12	74.00	-13.88	36.10	3	Vertical	67	1.24	-	24.02	27.75	8.35	-

BT-LE(1Mbps)

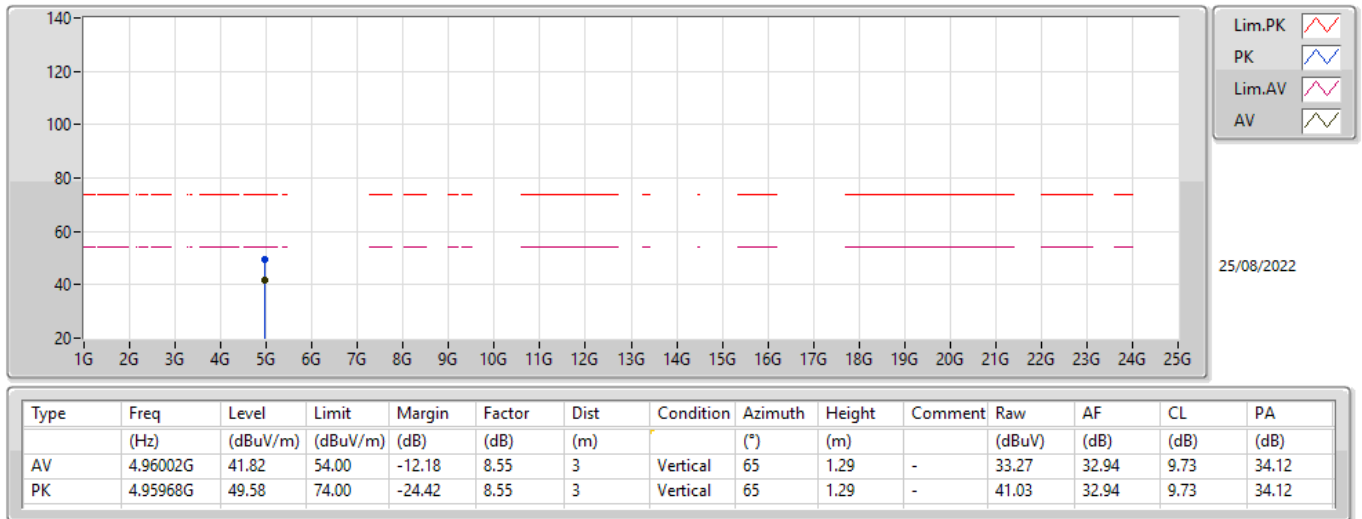
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	99.63	Inf	-Inf	36.02	3	Horizontal	340	1.77	-	63.61	27.68	8.34	-
AV	2.4835G	52.30	54.00	-1.70	36.04	3	Horizontal	340	1.77	-	16.26	27.70	8.34	-
PK	2.4802G	100.98	Inf	-Inf	36.02	3	Horizontal	340	1.77	-	64.96	27.68	8.34	-
PK	2.4912G	60.12	74.00	-13.88	36.10	3	Horizontal	340	1.77	-	24.02	27.75	8.35	-

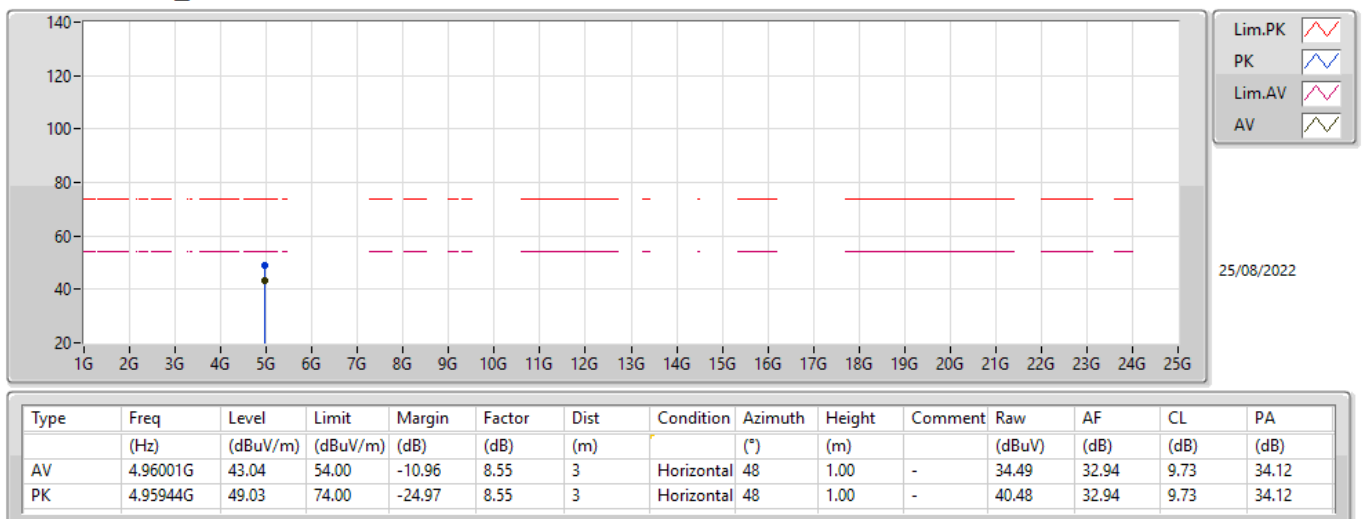
BT-LE(1Mbps)

2480MHz_TX



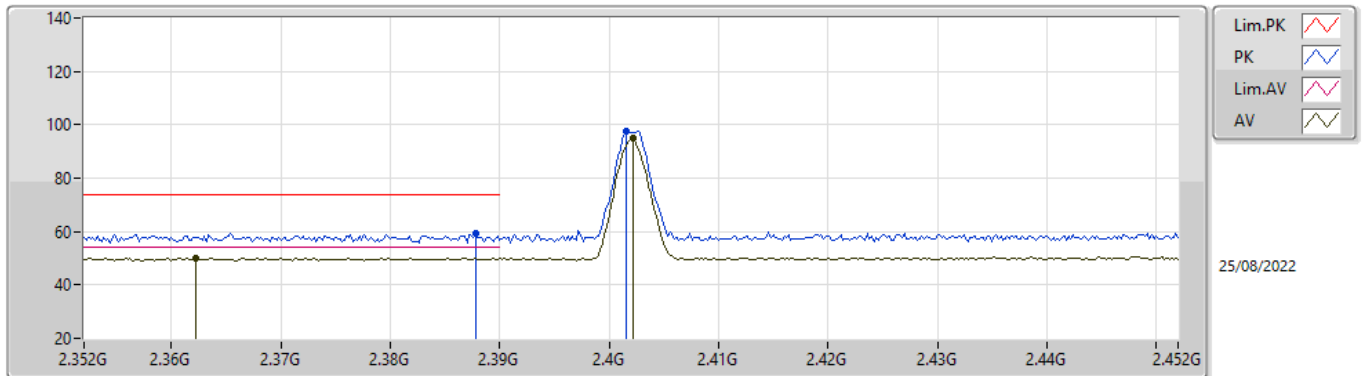
BT-LE(1Mbps)

2480MHz_TX



BT-LE(2Mbps)

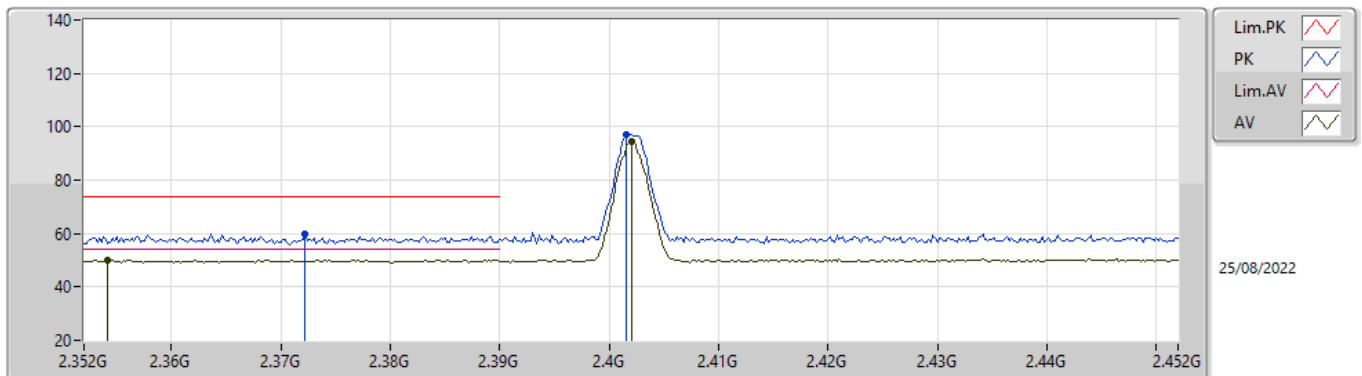
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3622G	50.14	54.00	-3.86	35.48	3	Vertical	58	2.90	-	14.66	27.22	8.26	-
AV	2.4022G	94.83	Inf	-Inf	35.60	3	Vertical	58	2.90	-	59.23	27.31	8.29	-
PK	2.3878G	59.30	74.00	-14.70	35.56	3	Vertical	58	2.90	-	23.74	27.28	8.28	-
PK	2.4016G	97.47	Inf	-Inf	35.60	3	Vertical	58	2.90	-	61.87	27.31	8.29	-

BT-LE(2Mbps)

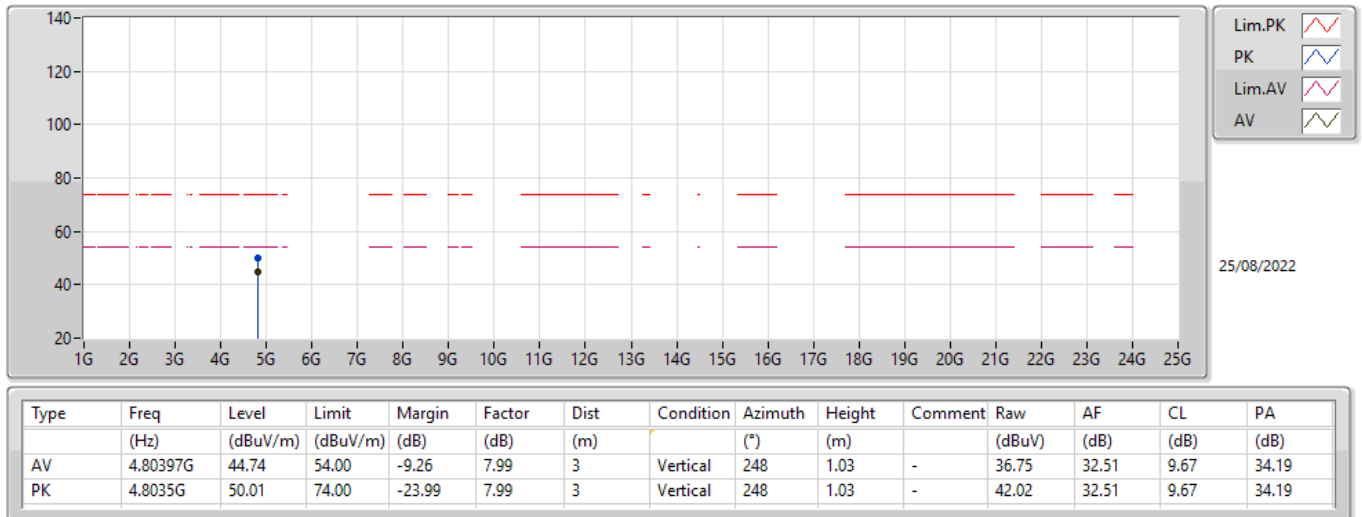
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3542G	50.24	54.00	-3.76	35.47	3	Horizontal	230	2.02	-	14.77	27.21	8.26	-
AV	2.402G	94.52	Inf	-Inf	35.60	3	Horizontal	230	2.02	-	58.92	27.31	8.29	-
PK	2.3722G	59.67	74.00	-14.33	35.51	3	Horizontal	230	2.02	-	24.16	27.24	8.27	-
PK	2.4016G	97.23	Inf	-Inf	35.60	3	Horizontal	230	2.02	-	61.63	27.31	8.29	-

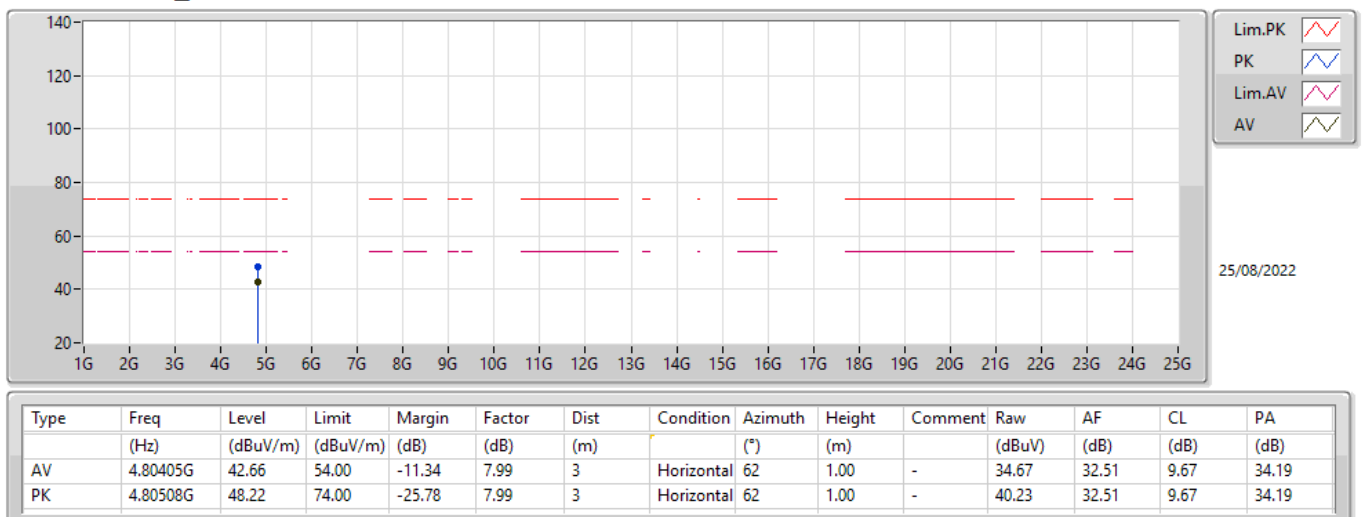
BT-LE(2Mbps)

2402MHz_TX



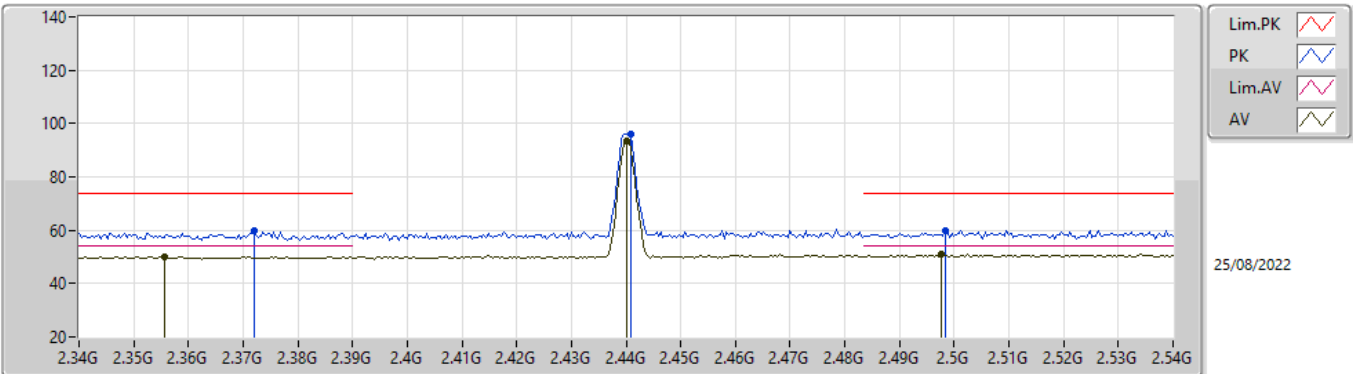
BT-LE(2Mbps)

2402MHz_TX



BT-LE(2Mbps)

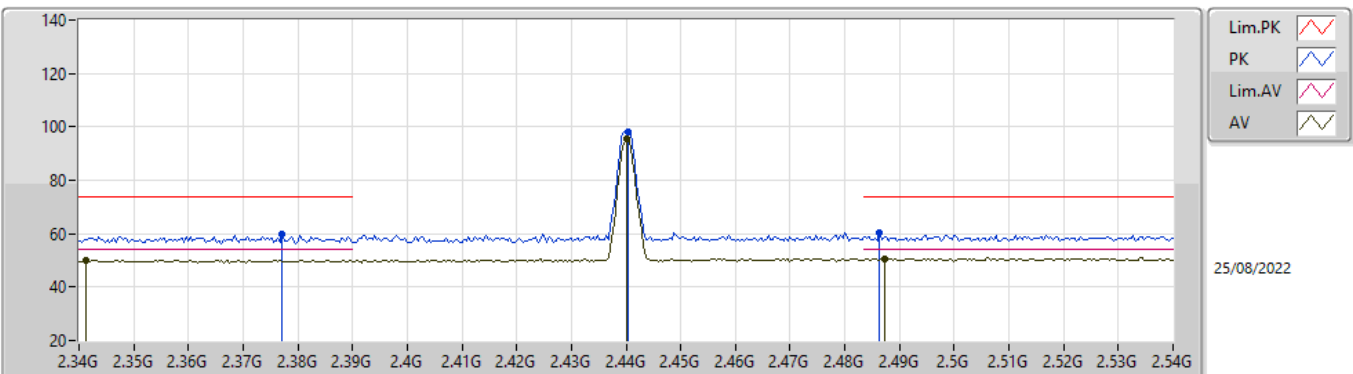
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3556G	50.23	54.00	-3.77	35.47	3	Vertical	58	1.77	-	14.76	27.21	8.26	-
AV	2.44G	93.34	Inf	-Inf	35.78	3	Vertical	58	1.77	-	57.56	27.46	8.32	-
AV	2.4976G	51.08	54.00	-2.92	36.14	3	Vertical	58	1.77	-	14.94	27.79	8.35	-
PK	2.372G	59.72	74.00	-14.28	35.51	3	Vertical	58	1.77	-	24.21	27.24	8.27	-
PK	2.4408G	96.26	Inf	-Inf	35.78	3	Vertical	58	1.77	-	60.48	27.46	8.32	-
PK	2.4984G	59.92	74.00	-14.08	36.14	3	Vertical	58	1.77	-	23.78	27.79	8.35	-

BT-LE(2Mbps)

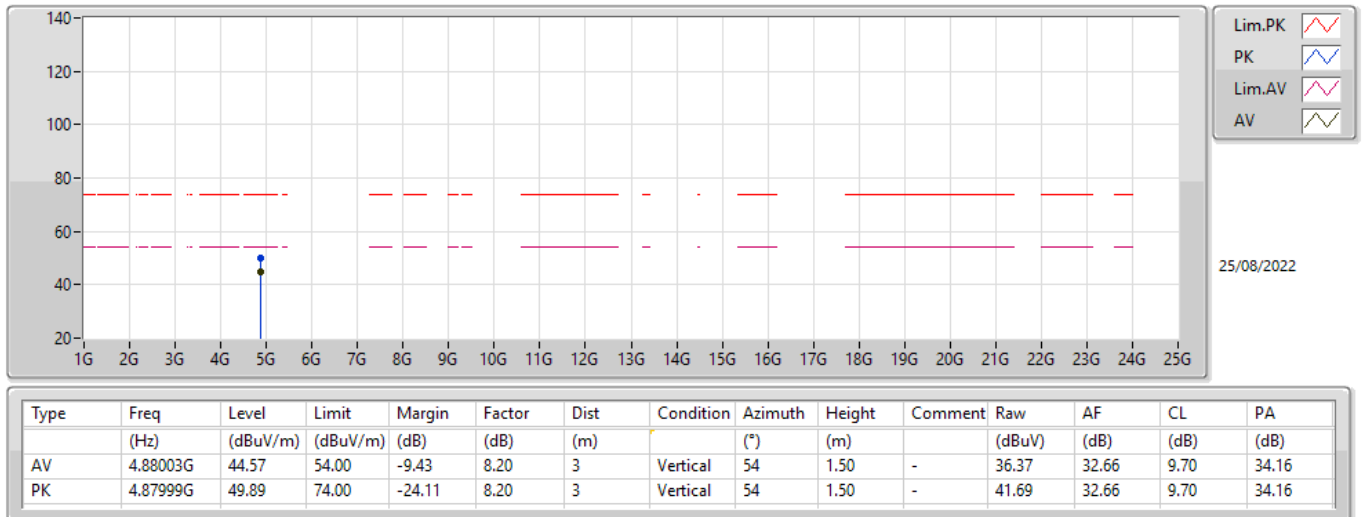
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3412G	50.25	54.00	-3.75	35.41	3	Horizontal	336	2.49	-	14.84	27.16	8.25	-
AV	2.44G	95.50	Inf	-Inf	35.78	3	Horizontal	336	2.49	-	59.72	27.46	8.32	-
AV	2.4872G	50.73	54.00	-3.27	36.07	3	Horizontal	336	2.49	-	14.66	27.72	8.35	-
PK	2.3772G	59.65	74.00	-14.35	35.52	3	Horizontal	336	2.49	-	24.13	27.25	8.27	-
PK	2.4404G	98.19	Inf	-Inf	35.78	3	Horizontal	336	2.49	-	62.41	27.46	8.32	-
PK	2.4864G	60.25	74.00	-13.75	36.07	3	Horizontal	336	2.49	-	24.18	27.72	8.35	-

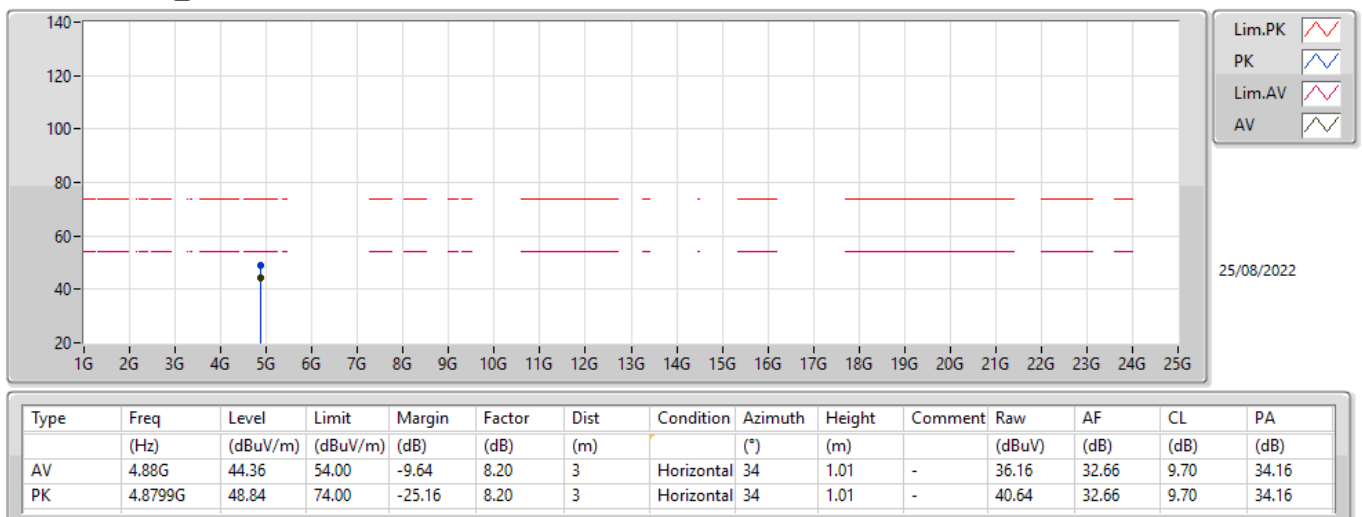
BT-LE(2Mbps)

2440MHz_TX



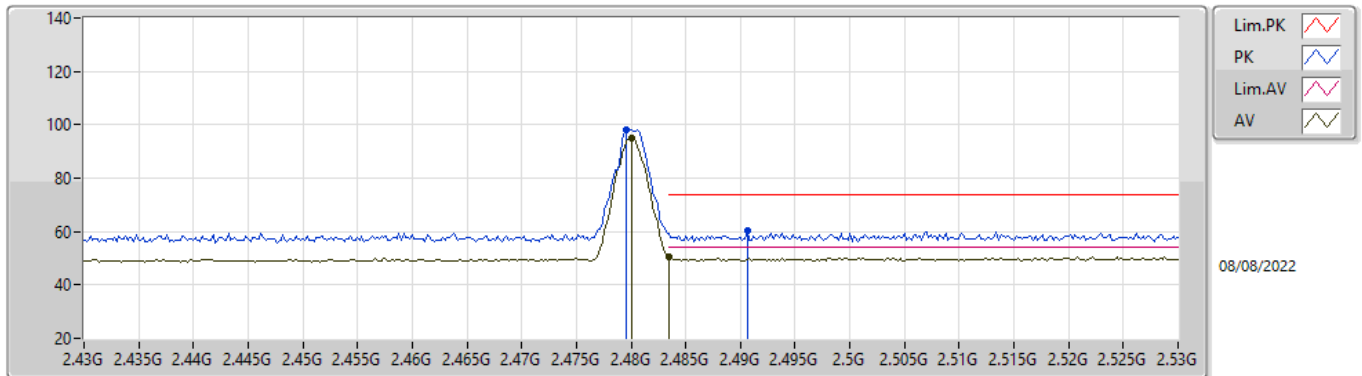
BT-LE(2Mbps)

2440MHz_TX



BT-LE(2Mbps)

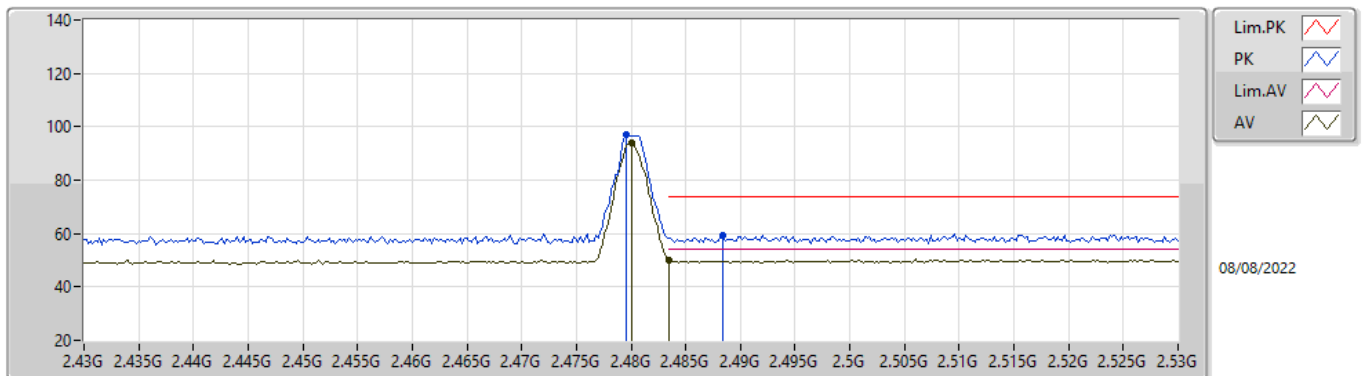
2480MHz_TX



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	95.14	Inf	-Inf	36.02	3	Vertical	154	1.50	-	59.12	27.68	8.34	-
AV	2.4835G	50.27	54.00	-3.73	36.04	3	Vertical	154	1.50	-	14.23	27.70	8.34	-
PK	2.4796G	97.89	Inf	-Inf	36.02	3	Vertical	154	1.50	-	61.87	27.68	8.34	-
PK	2.4906G	60.25	74.00	-13.75	36.09	3	Vertical	154	1.50	-	24.16	27.74	8.35	-

BT-LE(2Mbps)

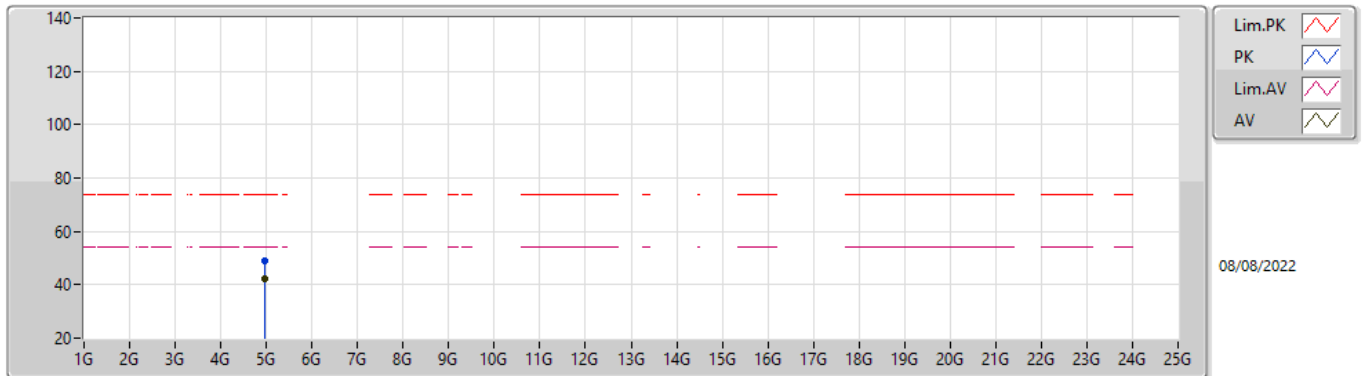
2480MHz_TX



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	94.02	Inf	-Inf	36.02	3	Horizontal	240	1.26	-	58.00	27.68	8.34	-
AV	2.4835G	50.16	54.00	-3.84	36.04	3	Horizontal	240	1.26	-	14.12	27.70	8.34	-
PK	2.4796G	96.86	Inf	-Inf	36.02	3	Horizontal	240	1.26	-	60.84	27.68	8.34	-
PK	2.4884G	59.50	74.00	-14.50	36.08	3	Horizontal	240	1.26	-	23.42	27.73	8.35	-

BT-LE(2Mbps)

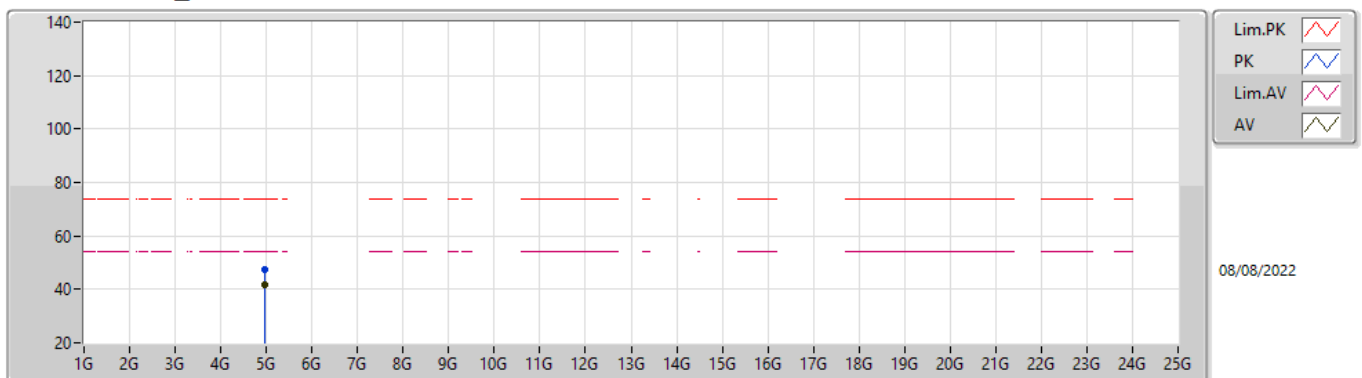
2480MHz_TX



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	4.95997G	42.35	54.00	-11.65	8.55	3	Vertical	73	1.02	-	33.80	32.94	9.73	34.12
PK	4.95888G	48.88	74.00	-25.12	8.55	3	Vertical	73	1.02	-	40.33	32.94	9.73	34.12

BT-LE(2Mbps)

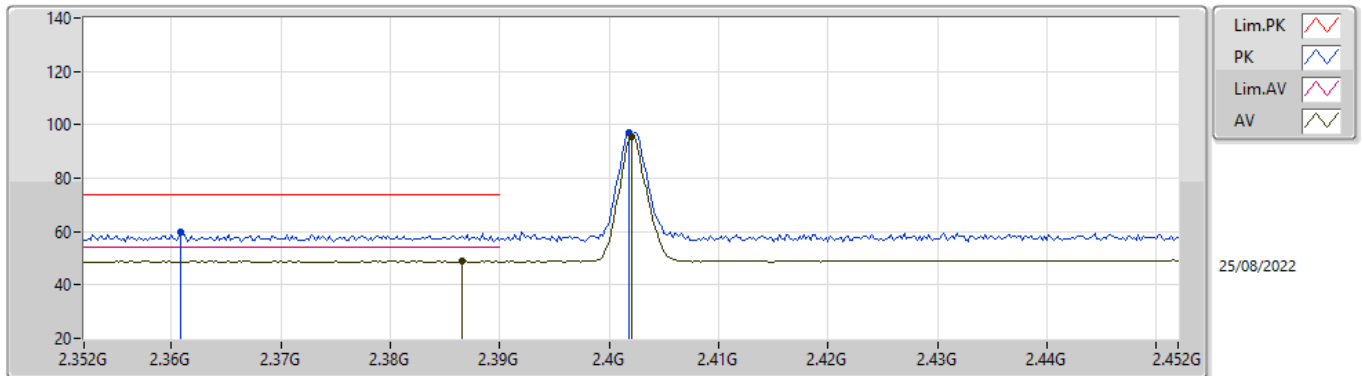
2480MHz_TX



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	4.96G	41.67	54.00	-12.33	8.55	3	Horizontal	41	1.00	-	33.12	32.94	9.73	34.12
PK	4.95996G	47.49	74.00	-26.51	8.55	3	Horizontal	41	1.00	-	38.94	32.94	9.73	34.12

BT-LE(125kbps)

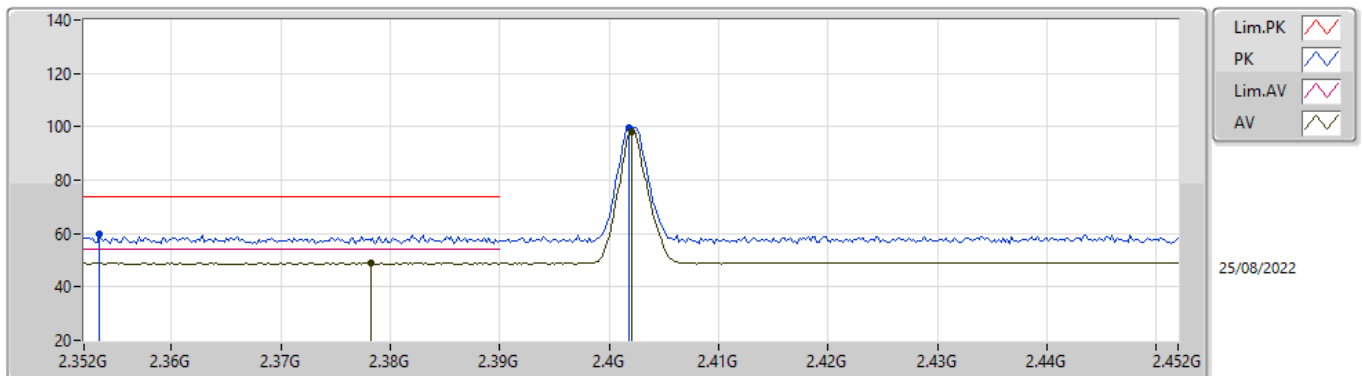
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3866G	48.92	54.00	-5.08	35.55	3	Vertical	57	1.88	-	13.37	27.27	8.28	-
AV	2.402G	95.35	Inf	-Inf	35.60	3	Vertical	57	1.88	-	59.75	27.31	8.29	-
PK	2.3608G	59.89	74.00	-14.11	35.48	3	Vertical	57	1.88	-	24.41	27.22	8.26	-
PK	2.4018G	96.92	Inf	-Inf	35.60	3	Vertical	57	1.88	-	61.32	27.31	8.29	-

BT-LE(125kbps)

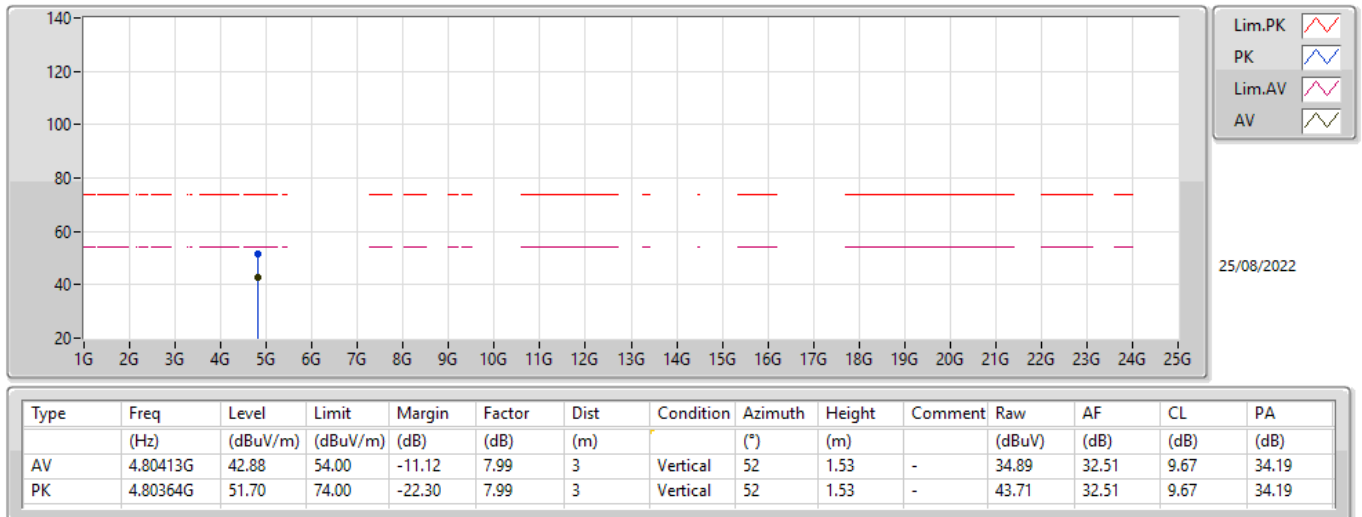
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3782G	48.87	54.00	-5.13	35.53	3	Horizontal	331	2.05	-	13.34	27.26	8.27	-
AV	2.402G	98.26	Inf	-Inf	35.60	3	Horizontal	331	2.05	-	62.66	27.31	8.29	-
PK	2.3534G	59.82	74.00	-14.18	35.47	3	Horizontal	331	2.05	-	24.35	27.21	8.26	-
PK	2.4018G	99.89	Inf	-Inf	35.60	3	Horizontal	331	2.05	-	64.29	27.31	8.29	-

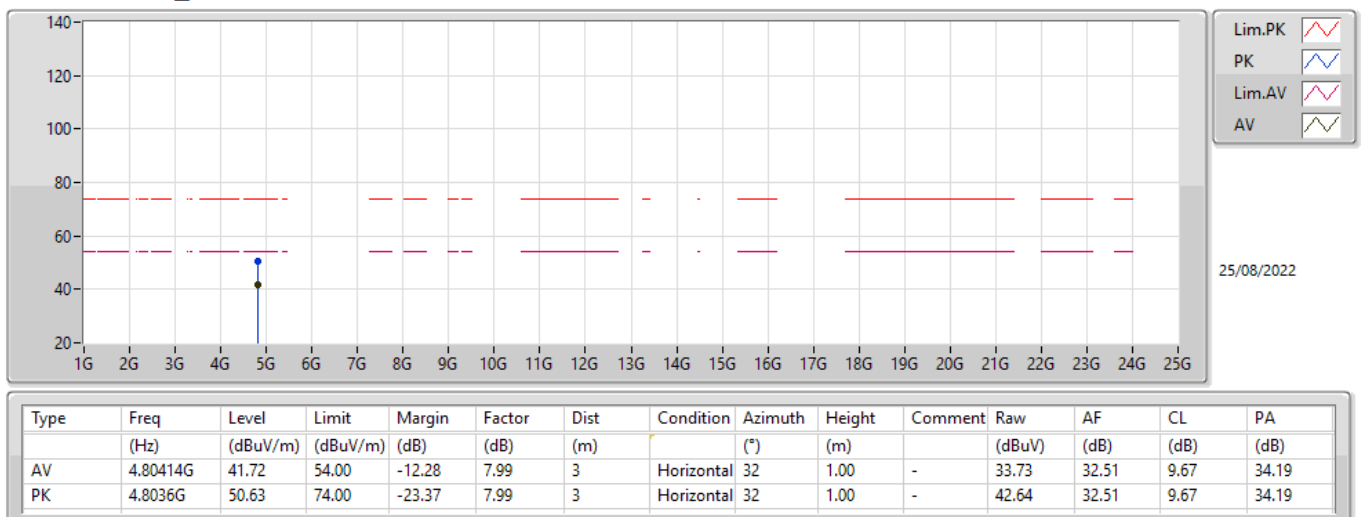
BT-LE(125kbps)

2402MHz_TX



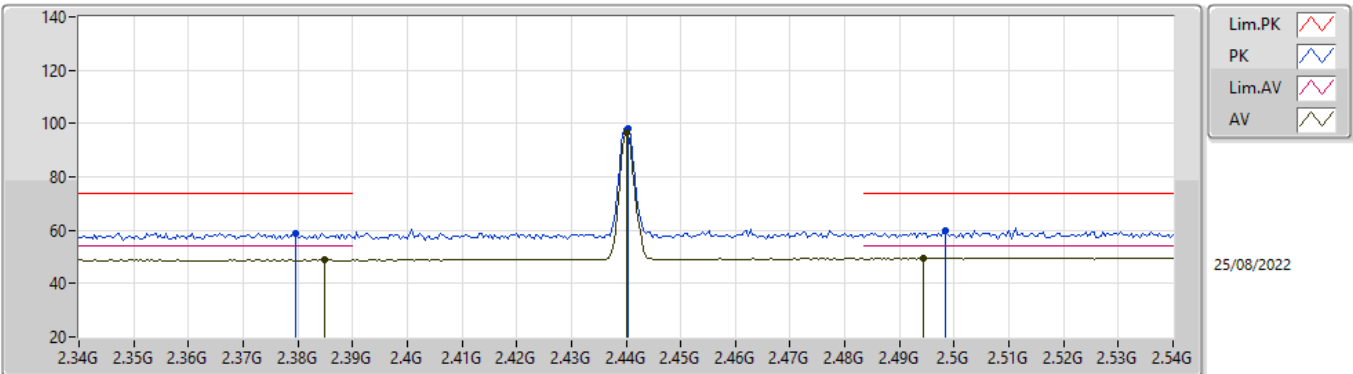
BT-LE(125kbps)

2402MHz_TX



BT-LE(125kbps)

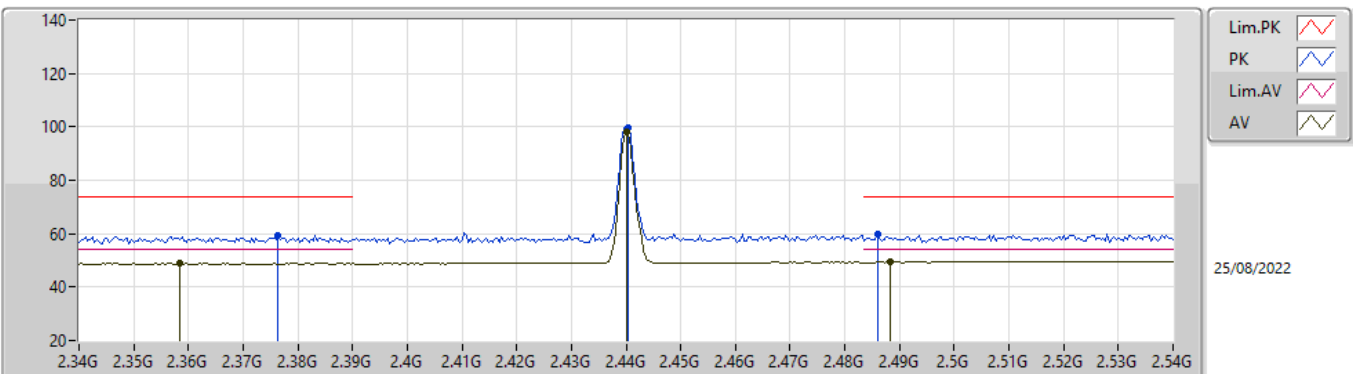
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3848G	48.86	54.00	-5.14	35.55	3	Vertical	59	1.76	-	13.31	27.27	8.28	-
AV	2.44G	96.62	Inf	-Inf	35.78	3	Vertical	59	1.76	-	60.84	27.46	8.32	-
AV	2.4944G	49.39	54.00	-4.61	36.12	3	Vertical	59	1.76	-	13.27	27.77	8.35	-
PK	2.3796G	58.93	74.00	-15.07	35.53	3	Vertical	59	1.76	-	23.40	27.26	8.27	-
PK	2.4404G	98.25	Inf	-Inf	35.78	3	Vertical	59	1.76	-	62.47	27.46	8.32	-
PK	2.4984G	59.90	74.00	-14.10	36.14	3	Vertical	59	1.76	-	23.76	27.79	8.35	-

BT-LE(125kbps)

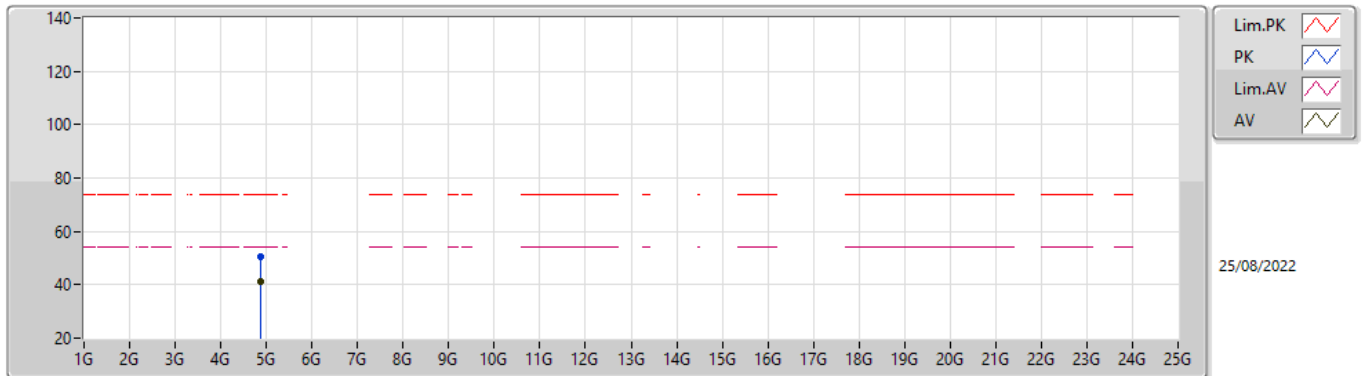
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3584G	48.85	54.00	-5.15	35.48	3	Horizontal	334	2.49	-	13.37	27.22	8.26	-
AV	2.44G	98.13	Inf	-Inf	35.78	3	Horizontal	334	2.49	-	62.35	27.46	8.32	-
AV	2.4884G	49.50	54.00	-4.50	36.08	3	Horizontal	334	2.49	-	13.42	27.73	8.35	-
PK	2.3764G	59.33	74.00	-14.67	35.52	3	Horizontal	334	2.49	-	23.81	27.25	8.27	-
PK	2.4404G	99.73	Inf	-Inf	35.78	3	Horizontal	334	2.49	-	63.95	27.46	8.32	-
PK	2.486G	59.63	74.00	-14.37	36.07	3	Horizontal	334	2.49	-	23.56	27.72	8.35	-

BT-LE(125kbps)

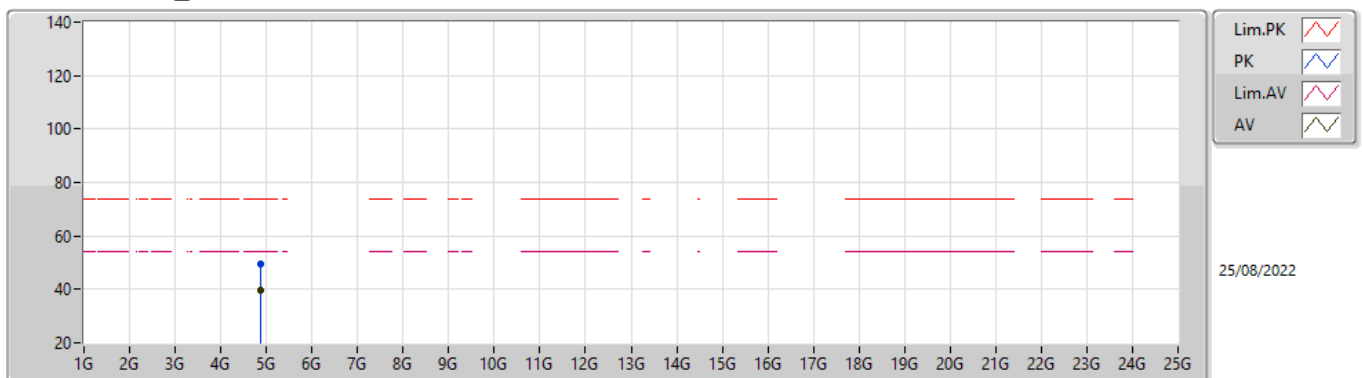
2440MHz_TX



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	4.88011G	40.95	54.00	-13.05	8.20	3	Vertical	54	1.49	-	32.75	32.66	9.70	34.16
PK	4.87963G	50.27	74.00	-23.73	8.20	3	Vertical	54	1.49	-	42.07	32.66	9.70	34.16

BT-LE(125kbps)

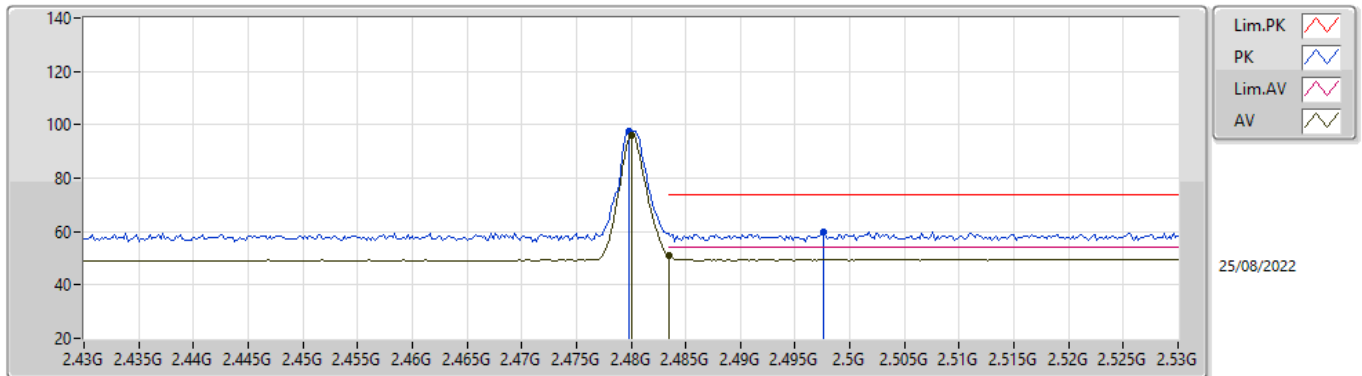
2440MHz_TX



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	4.88006G	39.85	54.00	-14.15	8.20	3	Horizontal	34	1.02	-	31.65	32.66	9.70	34.16
PK	4.87959G	49.74	74.00	-24.26	8.20	3	Horizontal	34	1.02	-	41.54	32.66	9.70	34.16

BT-LE(125kbps)

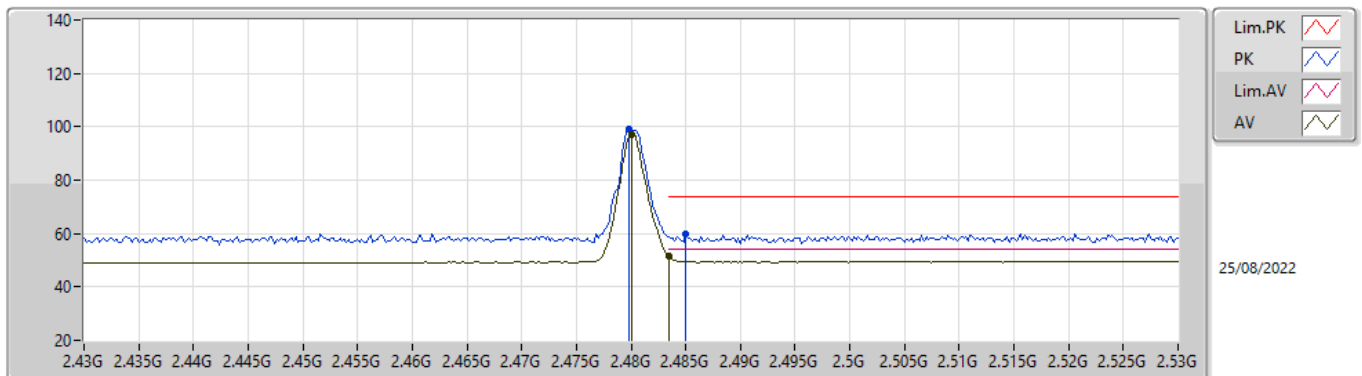
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	95.90	Inf	-Inf	36.02	3	Vertical	58	1.60	-	59.88	27.68	8.34	-
AV	2.4835G	50.99	54.00	-3.01	36.04	3	Vertical	58	1.60	-	14.95	27.70	8.34	-
PK	2.4798G	97.50	Inf	-Inf	36.02	3	Vertical	58	1.60	-	61.48	27.68	8.34	-
PK	2.4976G	59.77	74.00	-14.23	36.14	3	Vertical	58	1.60	-	23.63	27.79	8.35	-

BT-LE(125kbps)

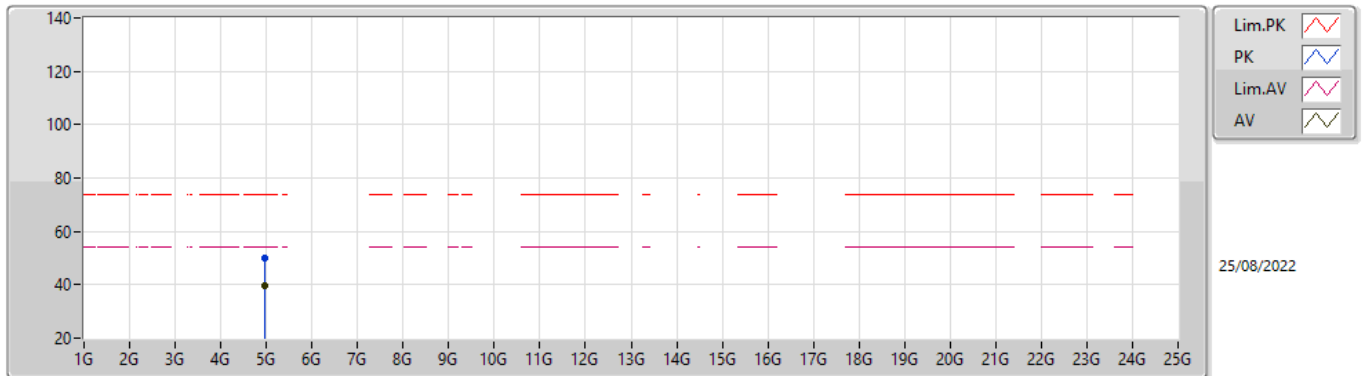
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	97.28	Inf	-Inf	36.02	3	Horizontal	342	1.77	-	61.26	27.68	8.34	-
AV	2.4835G	51.44	54.00	-2.56	36.04	3	Horizontal	342	1.77	-	15.40	27.70	8.34	-
PK	2.4798G	98.91	Inf	-Inf	36.02	3	Horizontal	342	1.77	-	62.89	27.68	8.34	-
PK	2.485G	59.95	74.00	-14.05	36.06	3	Horizontal	342	1.77	-	23.89	27.71	8.35	-

BT-LE(125kbps)

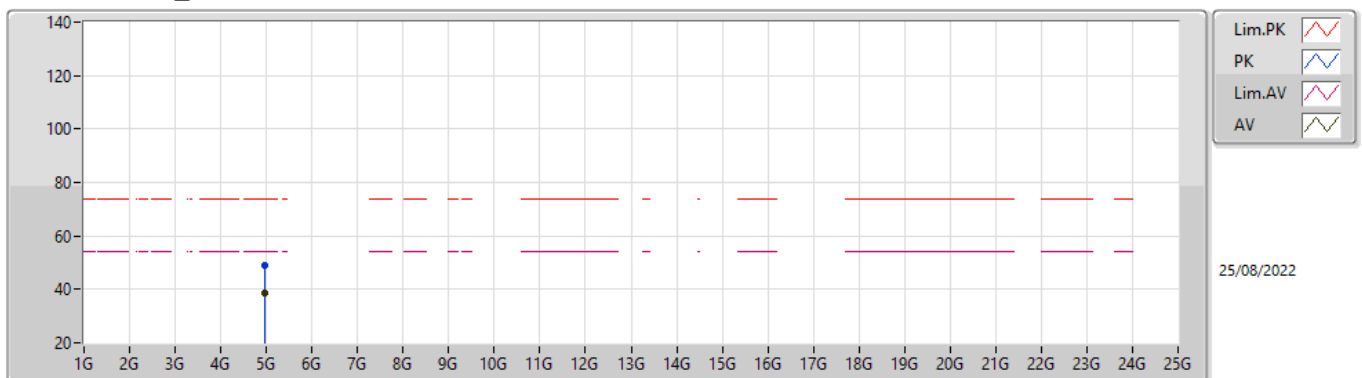
2480MHz_TX



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	4.96012G	39.72	54.00	-14.28	8.55	3	Vertical	51	1.50	-	31.17	32.94	9.73	34.12
PK	4.9603G	49.81	74.00	-24.19	8.55	3	Vertical	51	1.50	-	41.26	32.94	9.73	34.12

BT-LE(125kbps)

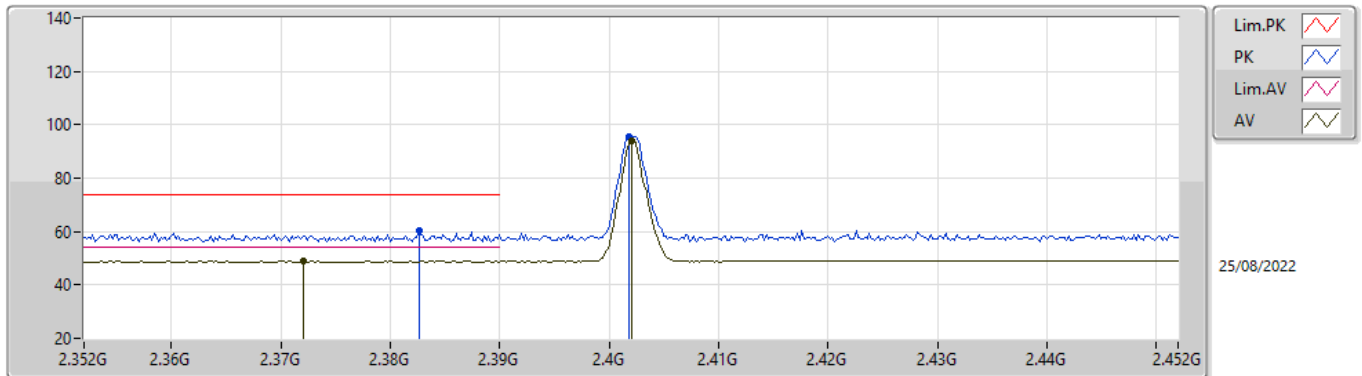
2480MHz_TX



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	4.9602G	38.44	54.00	-15.56	8.55	3	Horizontal	50	1.00	-	29.89	32.94	9.73	34.12
PK	4.96038G	49.05	74.00	-24.95	8.55	3	Horizontal	50	1.00	-	40.50	32.94	9.73	34.12

BT-LE(500kbps)

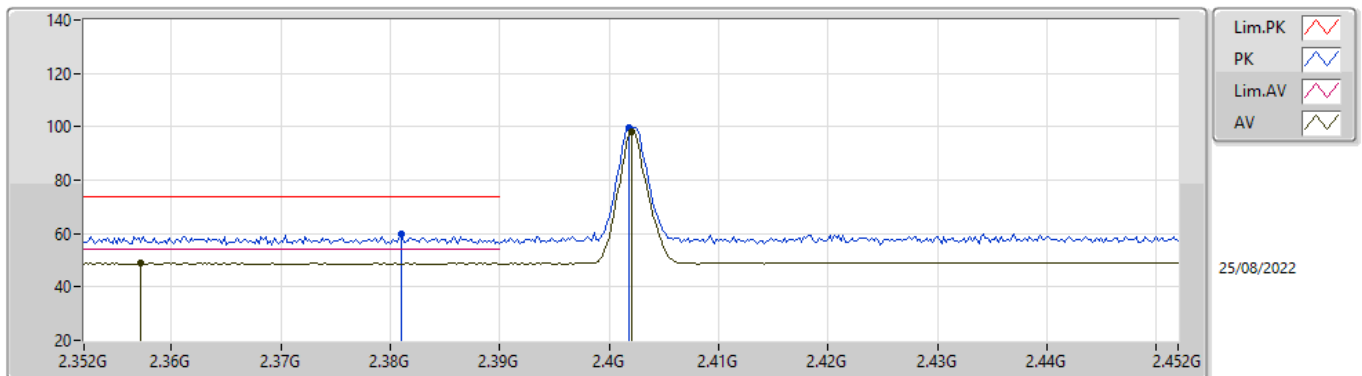
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.372G	48.85	54.00	-5.15	35.51	3	Vertical	58	2.59	-	13.34	27.24	8.27	-
AV	2.402G	94.06	Inf	-Inf	35.60	3	Vertical	58	2.59	-	58.46	27.31	8.29	-
PK	2.3826G	60.31	74.00	-13.69	35.55	3	Vertical	58	2.59	-	24.76	27.27	8.28	-
PK	2.4018G	95.55	Inf	-Inf	35.60	3	Vertical	58	2.59	-	59.95	27.31	8.29	-

BT-LE(500kbps)

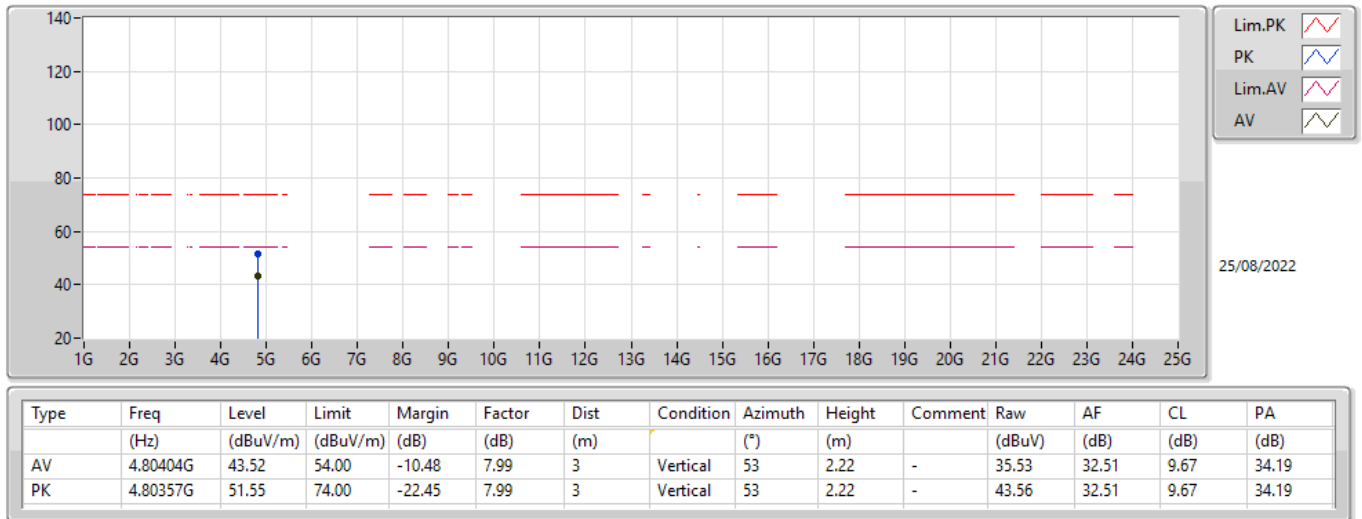
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3572G	48.90	54.00	-5.10	35.47	3	Horizontal	331	2.05	-	13.43	27.21	8.26	-
AV	2.402G	98.12	Inf	-Inf	35.60	3	Horizontal	331	2.05	-	62.52	27.31	8.29	-
PK	2.381G	59.58	74.00	-14.42	35.54	3	Horizontal	331	2.05	-	24.04	27.26	8.28	-
PK	2.4018G	99.66	Inf	-Inf	35.60	3	Horizontal	331	2.05	-	64.06	27.31	8.29	-

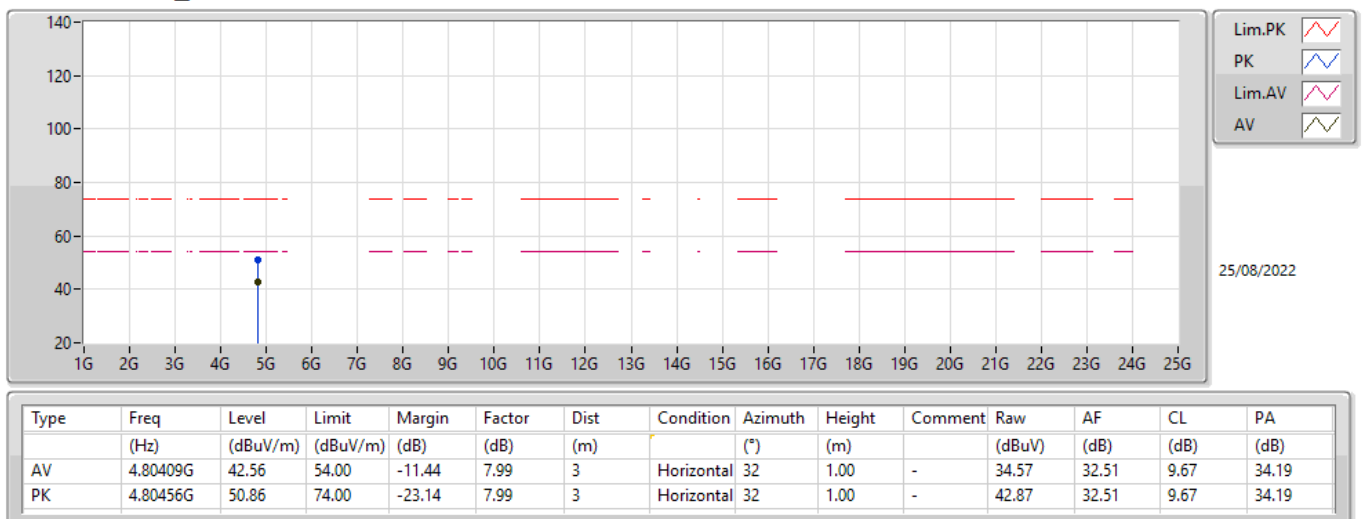
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2402MHz_TX



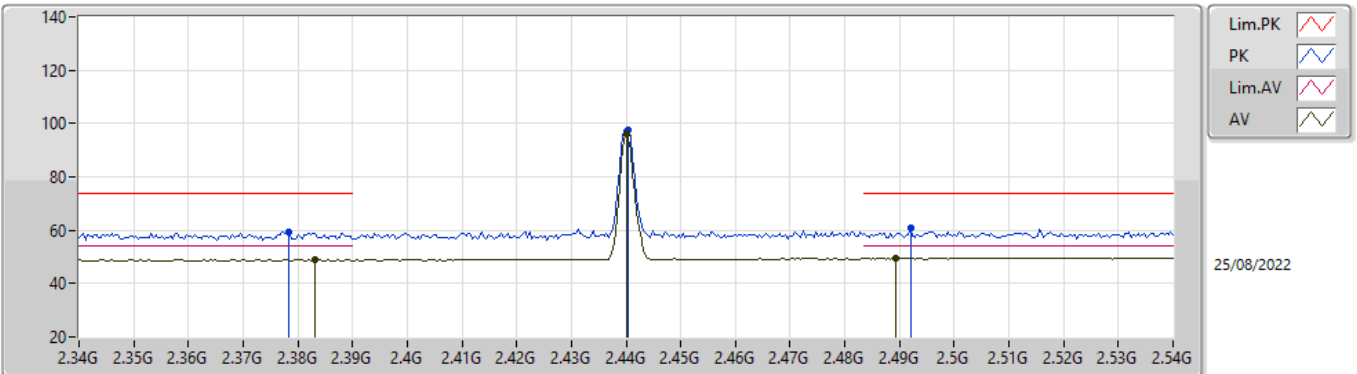
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2402MHz_TX



BT-LE(500kbps)

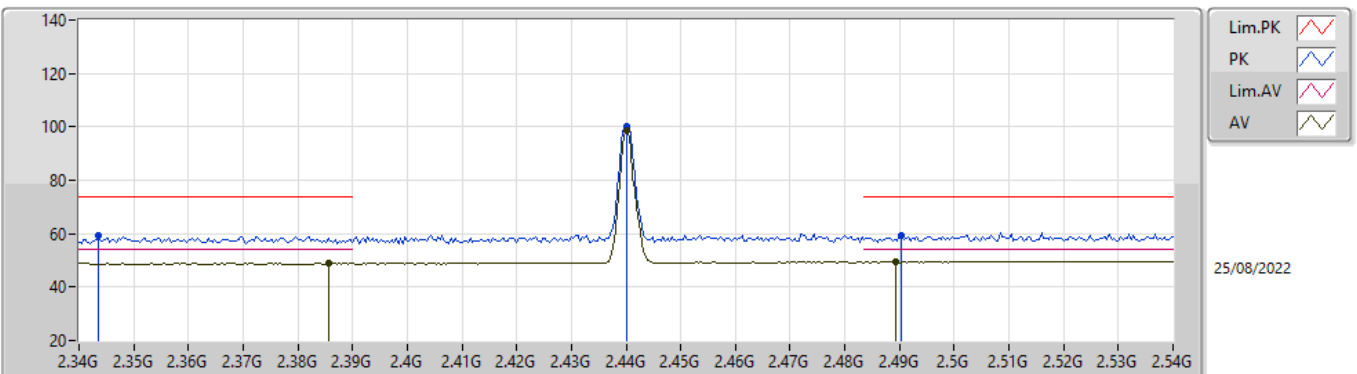
2440MHz_TX



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	2.3832G	48.88	54.00	-5.12	35.55	3	Vertical	60	1.77	-	13.33	27.27	8.28	-
AV	2.44G	96.21	Inf	-Inf	35.78	3	Vertical	60	1.77	-	60.43	27.46	8.32	-
AV	2.4892G	49.44	54.00	-4.56	36.09	3	Vertical	60	1.77	-	13.35	27.74	8.35	-
PK	2.3784G	59.28	74.00	-14.72	35.53	3	Vertical	60	1.77	-	23.75	27.26	8.27	-
PK	2.4404G	97.69	Inf	-Inf	35.78	3	Vertical	60	1.77	-	61.91	27.46	8.32	-
PK	2.492G	60.85	74.00	-13.15	36.10	3	Vertical	60	1.77	-	24.75	27.75	8.35	-

BT-LE(500kbps)

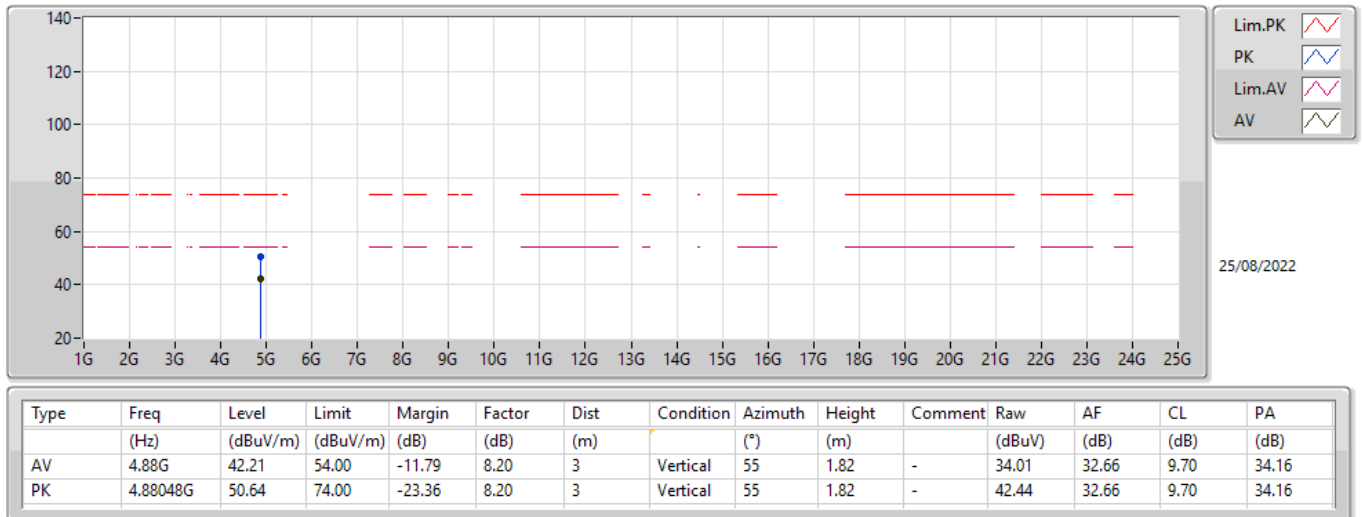
2440MHz_TX



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	2.3856G	48.89	54.00	-5.11	35.55	3	Horizontal	332	2.49	-	13.34	27.27	8.28	-
AV	2.44G	98.78	Inf	-Inf	35.78	3	Horizontal	332	2.49	-	63.00	27.46	8.32	-
AV	2.4892G	49.44	54.00	-4.56	36.09	3	Horizontal	332	2.49	-	13.35	27.74	8.35	-
PK	2.3436G	59.43	74.00	-14.57	35.42	3	Horizontal	332	2.49	-	24.01	27.17	8.25	-
PK	2.44G	100.22	Inf	-Inf	35.78	3	Horizontal	332	2.49	-	64.44	27.46	8.32	-
PK	2.4904G	59.48	74.00	-14.52	36.09	3	Horizontal	332	2.49	-	23.39	27.74	8.35	-

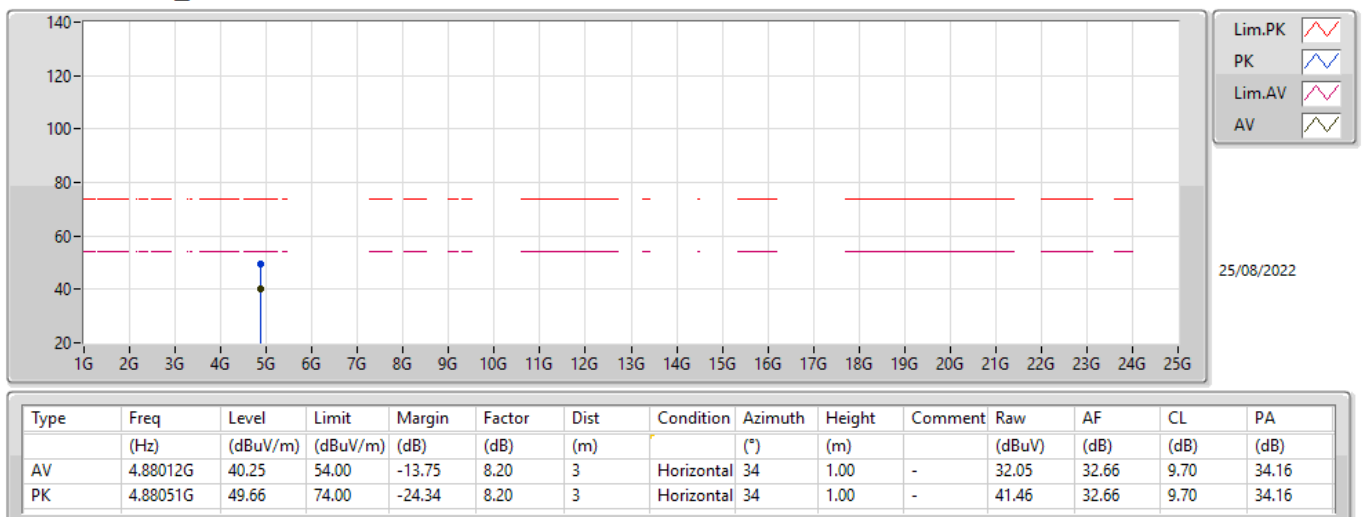
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2440MHz_TX



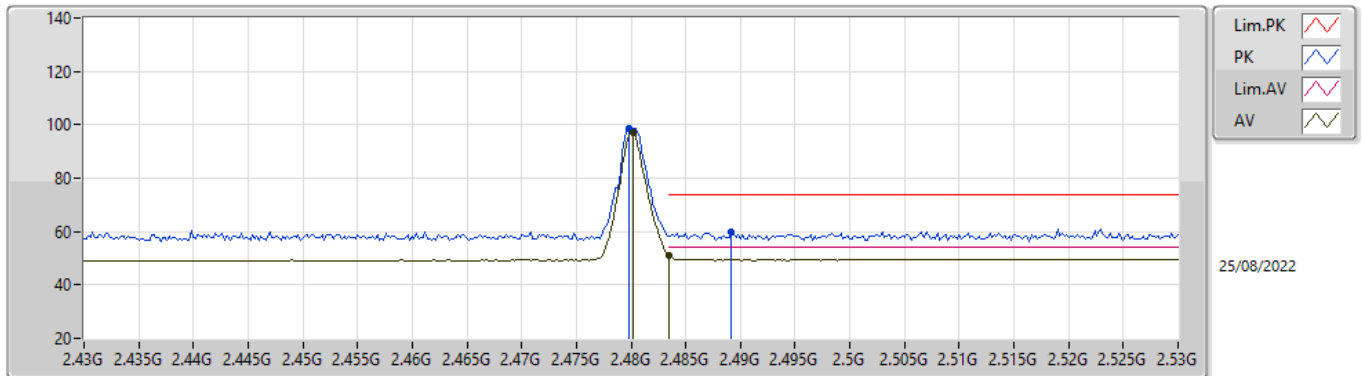
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2440MHz_TX



BT-LE(500kbps)

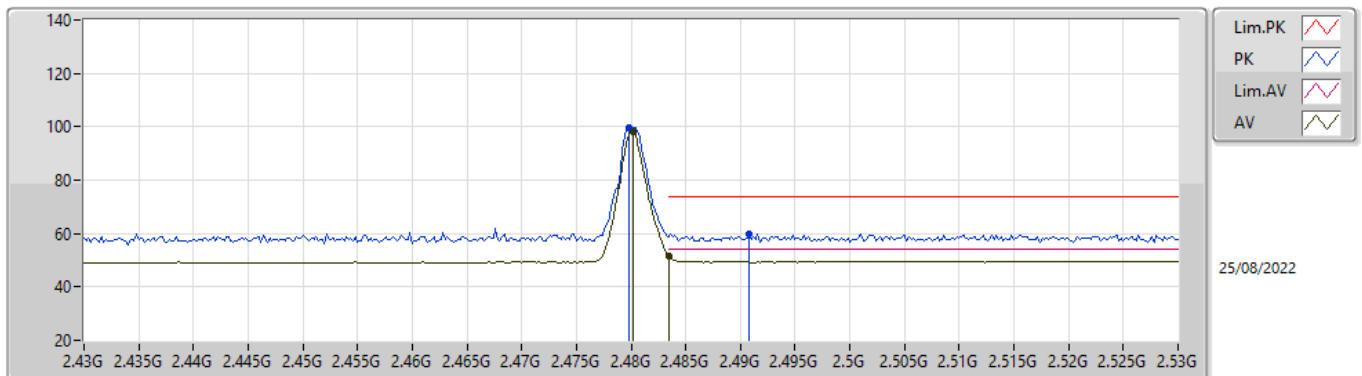
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4802G	97.05	Inf	-Inf	36.02	3	Vertical	59	1.60	-	61.03	27.68	8.34	-
AV	2.4835G	51.11	54.00	-2.89	36.04	3	Vertical	59	1.60	-	15.07	27.70	8.34	-
PK	2.4798G	98.55	Inf	-Inf	36.02	3	Vertical	59	1.60	-	62.53	27.68	8.34	-
PK	2.4892G	59.72	74.00	-14.28	36.09	3	Vertical	59	1.60	-	23.63	27.74	8.35	-

BT-LE(500kbps)

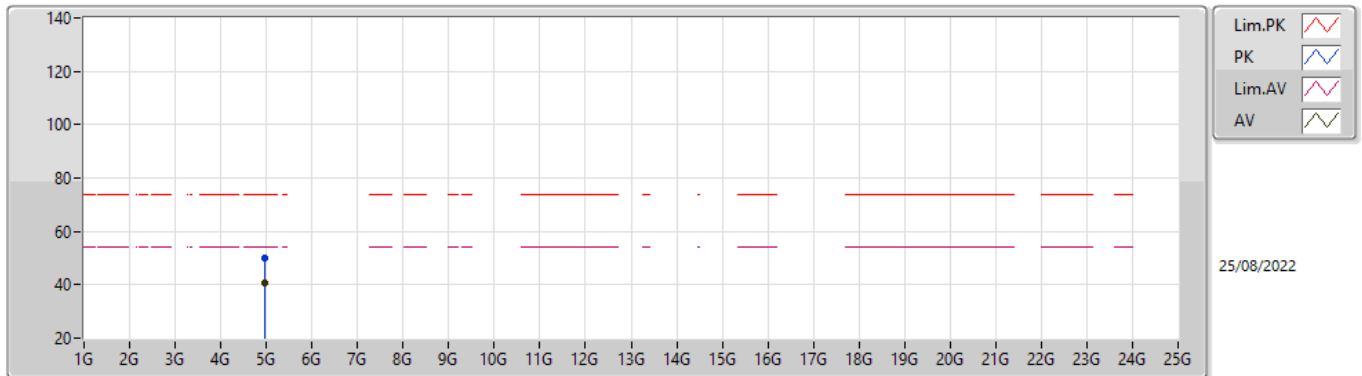
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4802G	98.18	Inf	-Inf	36.02	3	Horizontal	341	1.78	-	62.16	27.68	8.34	-
AV	2.4835G	51.78	54.00	-2.22	36.04	3	Horizontal	341	1.78	-	15.74	27.70	8.34	-
PK	2.4798G	99.75	Inf	-Inf	36.02	3	Horizontal	341	1.78	-	63.73	27.68	8.34	-
PK	2.4908G	60.04	74.00	-13.96	36.09	3	Horizontal	341	1.78	-	23.95	27.74	8.35	-

BT-LE(500kbps)

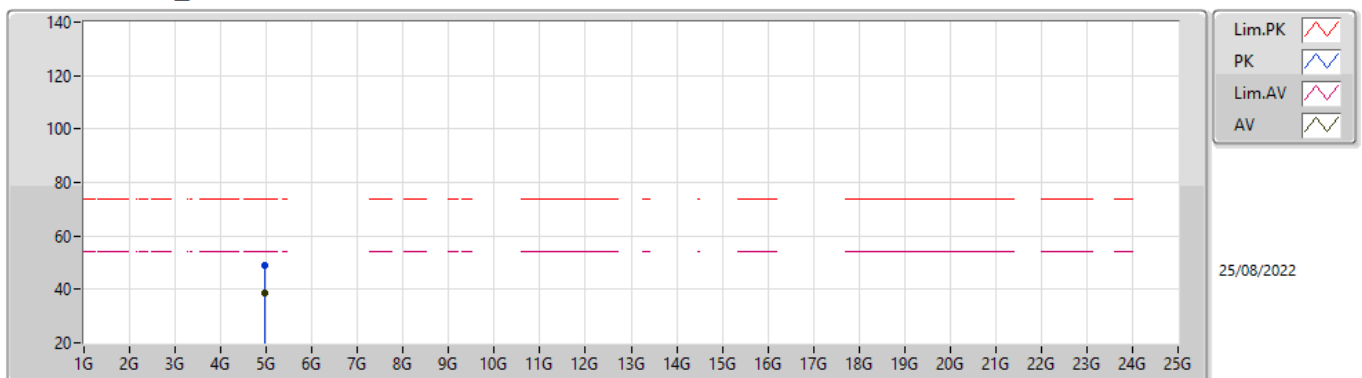
2480MHz_TX



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	4.96007G	40.44	54.00	-13.56	8.55	3	Vertical	47	1.50	-	31.89	32.94	9.73	34.12
PK	4.9606G	49.87	74.00	-24.13	8.55	3	Vertical	47	1.50	-	41.32	32.94	9.73	34.12

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	4.95999G	38.77	54.00	-15.23	8.55	3	Horizontal	50	1.00	-	30.22	32.94	9.73	34.12
PK	4.9597G	48.85	74.00	-25.15	8.55	3	Horizontal	50	1.00	-	40.30	32.94	9.73	34.12