

FCC Radio Test Report

FCC ID : 2AENP-MTB03R
Equipment : True Wireless In-Ear Headphones
Brand Name : Montblanc
Model Name : MTB 03
Applicant : Montblanc-Simplo GmbH
Hellgrundweg 100, 22525 Hamburg, Germany
Manufacturer : Montblanc-Simplo GmbH
Hellgrundweg 100, 22525 Hamburg, Germany
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 07, 2021, and testing was started from Jan. 24, 2022 and completed on Apr. 01, 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 Ver4.2
FCC ID: 2AENP-MTB03R

Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	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: Sam Tsai

Report Producer: Ann Hou

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

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	OneWave Electronic Co., Ltd.	WAN3216F245L08	Chip Antenna	N/A	-2.3

Note 1: The EUT has one antenna.

For BT function:

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

Ant. 1 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Battery		
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)	0.635	1.97	396.875u	3k
BT-LE(2Mbps)	0.34	4.69	212.5u	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	Yuna	22.1~23.9°C / 53~58%	24/Jan/2022~18/Mar/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	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Daniel	22.1~25.3°C / 57~64%	16/Mar/2022~01/Apr/2022

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	BlueTest3:3.3.5
------------------------------	-----------------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(2Mbps)	-
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	Battery mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

2.3 Accessories

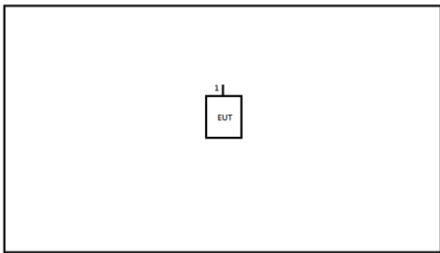
Accessories				
Battery	Brand Name	VARTA	Model Name	CP1254 A4
	Manufacturer	VARTA MICROBATTERY GMBH		
	Power Rating	3.7Vdc, 70mAh	Type	Li-ion, Button cell

Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5550	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Test fixture cable	Toongin	254-G5-4	-	Provided by Customer

2.5 Test Setup Diagram

Test Setup Diagram - Radiated Test				
				
Item	Connection	Shielded	Length (m)	
1	Test fixture cable	No	0.05	

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.

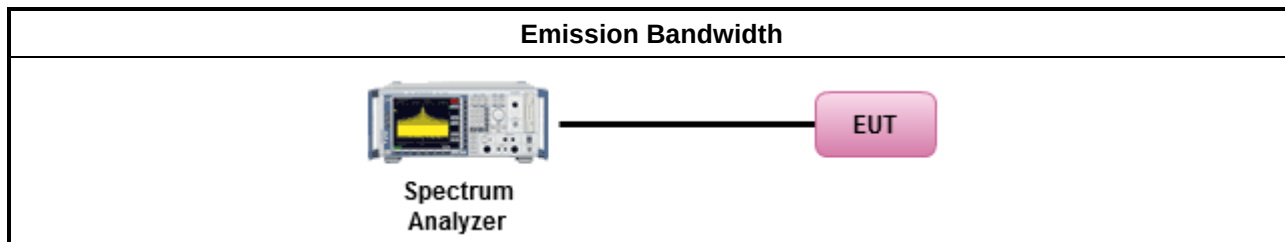
3.1.2 Measuring Instruments

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.	

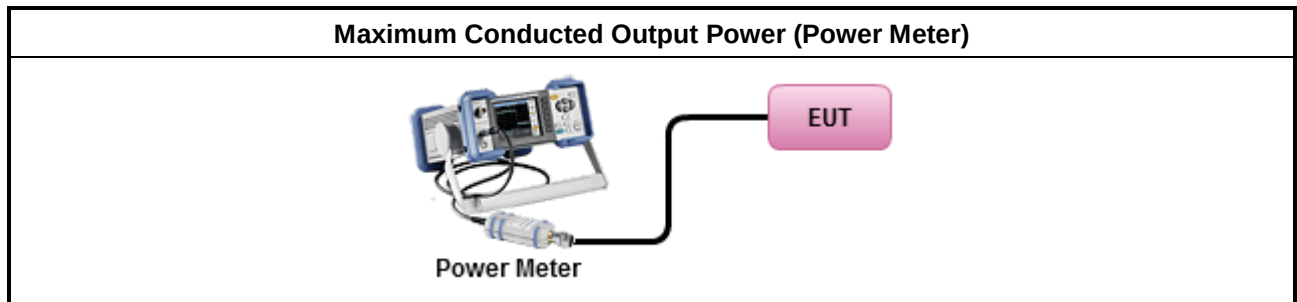
3.2.2 Measuring Instruments

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

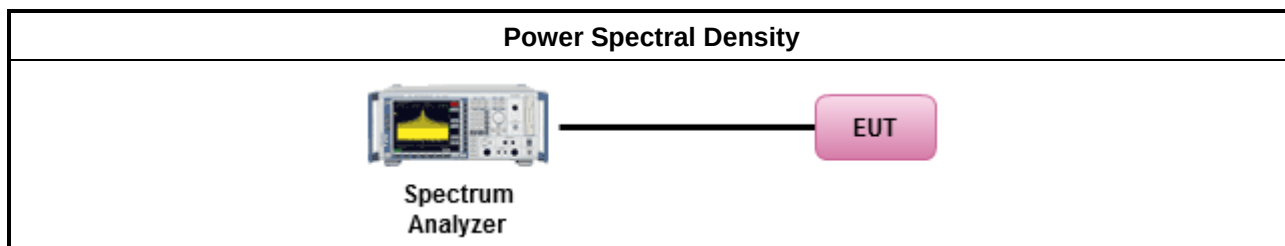
3.3.2 Measuring Instruments

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.	

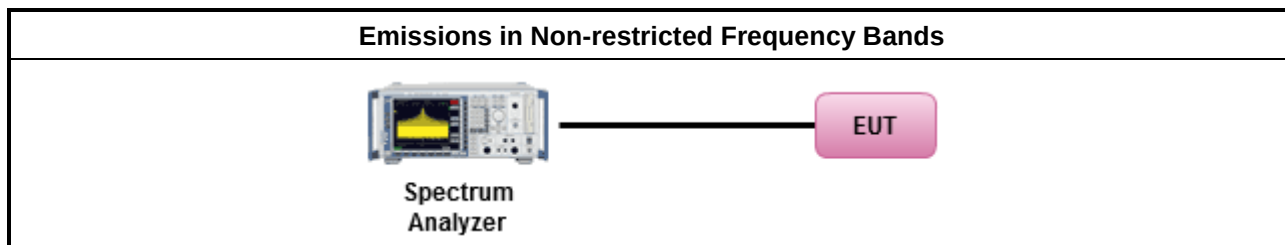
3.4.2 Measuring Instruments

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

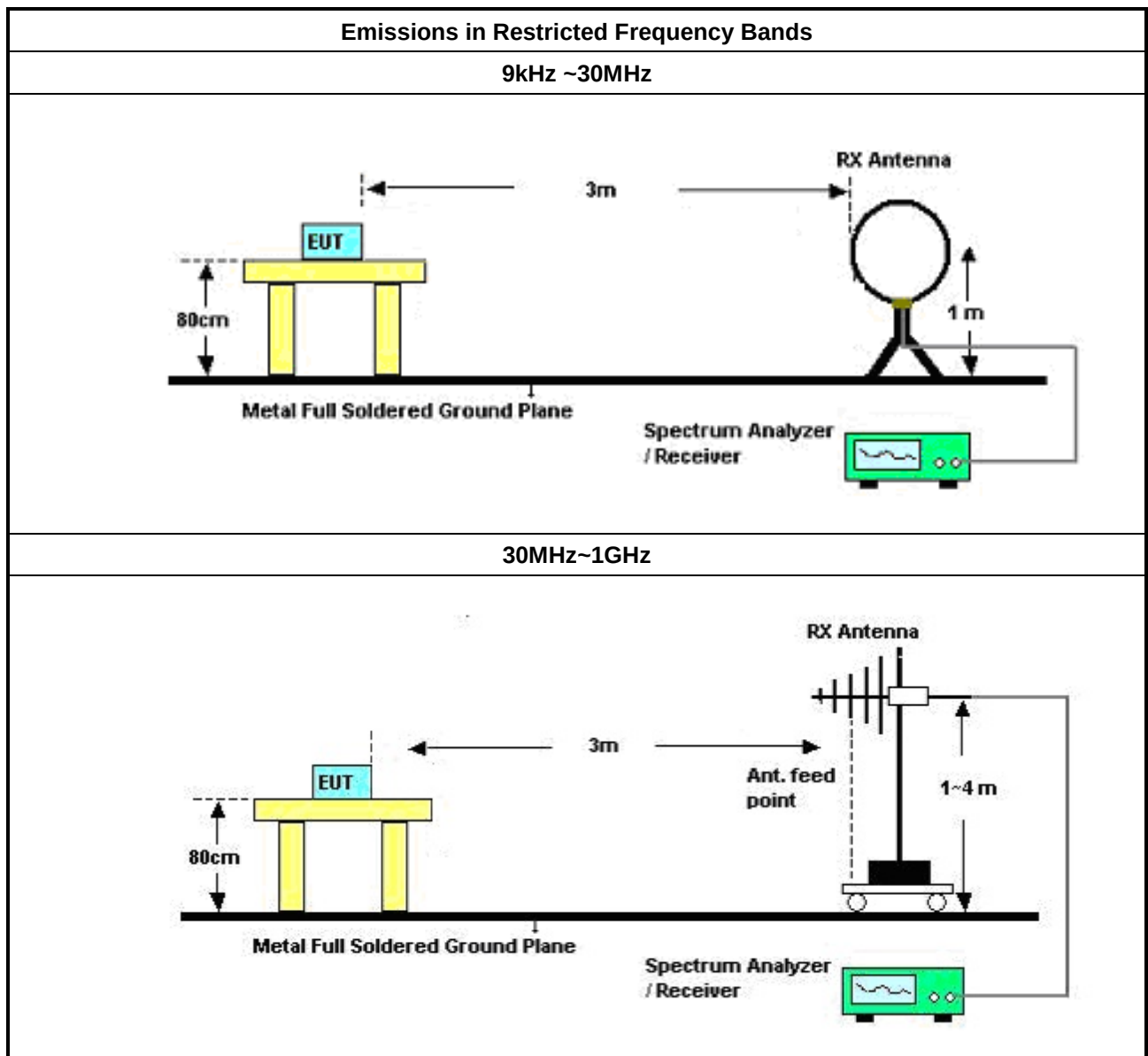
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted 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.

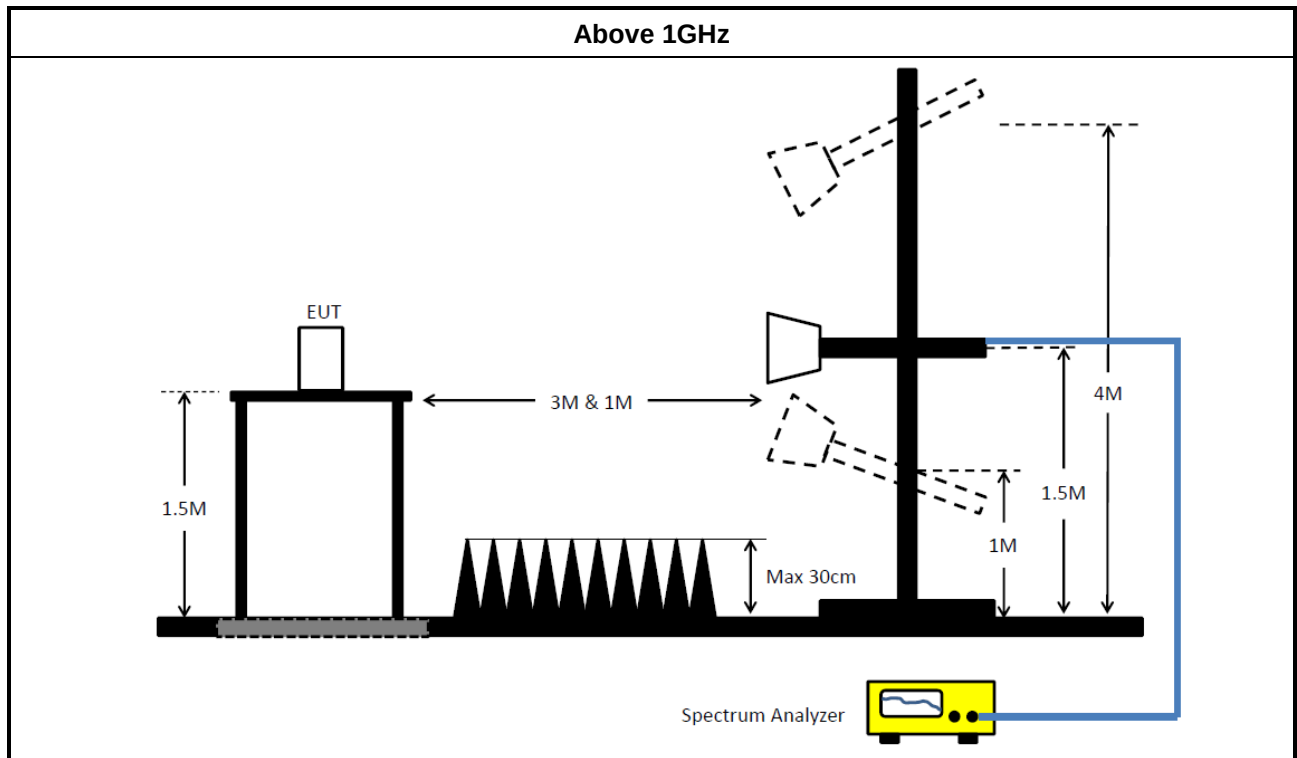
3.5.4 Measurement Results Calculation

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	101029	10Hz~40GHz	20/Oct/2021	19/Oct/2022
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2021	24/Mar/2022
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2021	24/Mar/2022
SENSE-15247_FS	Sporton	V5.10.7.13	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	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	26/Mar/2021	25/Mar/2022
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	25/Mar/2022	24/Mar/2023
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	18/Mar/2021	17/Mar/2022
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	17/Mar/2022	16/Mar/2023
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	13/Aug/2021	12/Aug/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	27/Dec/2021	26/Dec/2022
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	12/Apr/2021	11/Apr/2022
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	23/Jul/2021	22/Jul/2022
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	04/Sep/2021	03/Sep/2022
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	30/Aug/2021	29/Aug/2022
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	07/Feb/2022	06/Feb/2023
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	CB009	1GHz~40GHz	13/Aug/2021	12/Aug/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170614	18GHz~40GHz	12/May/2021	11/May/2022
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	Teseq	HLA 6120	24155	9kHz~30MHz	14/Apr/2021	13/Apr/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022
SENSE-15247_FS	Sporton	V5.10.7.13	N/A	N/A	N/A	N/A
SENSE-EMI	Sporton	V5.10.7.15	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)	718.75k	1.038M	1M04F1D	703.75k	1.034M
BT-LE(2Mbps)	1.258M	2.056M	2M06F1D	1.255M	2.051M

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

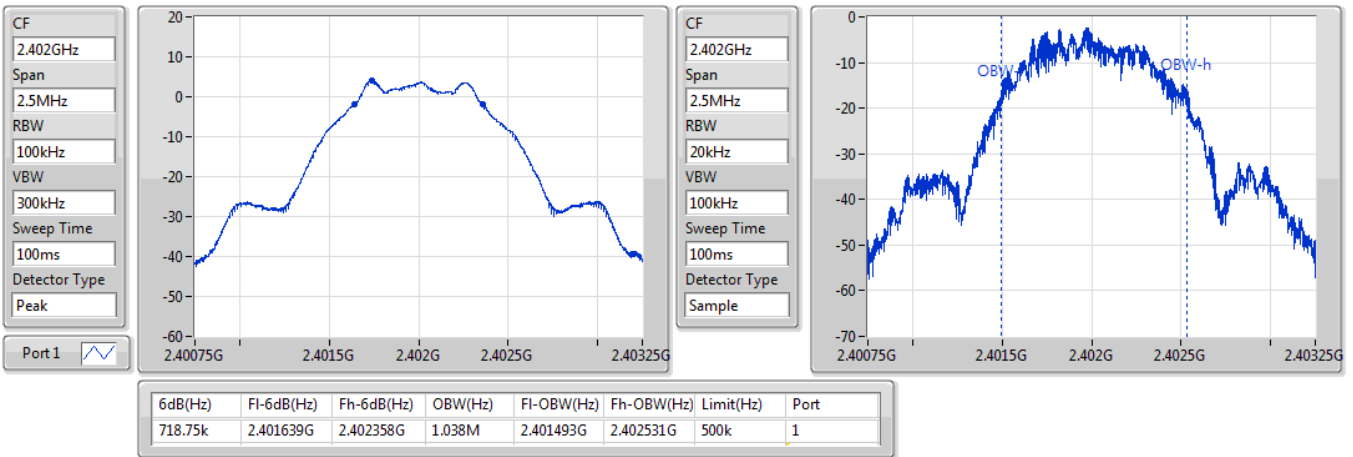
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	718.75k	1.038M
2440MHz	Pass	500k	705k	1.037M
2480MHz	Pass	500k	703.75k	1.034M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.255M	2.056M
2440MHz	Pass	500k	1.255M	2.054M
2480MHz	Pass	500k	1.258M	2.051M

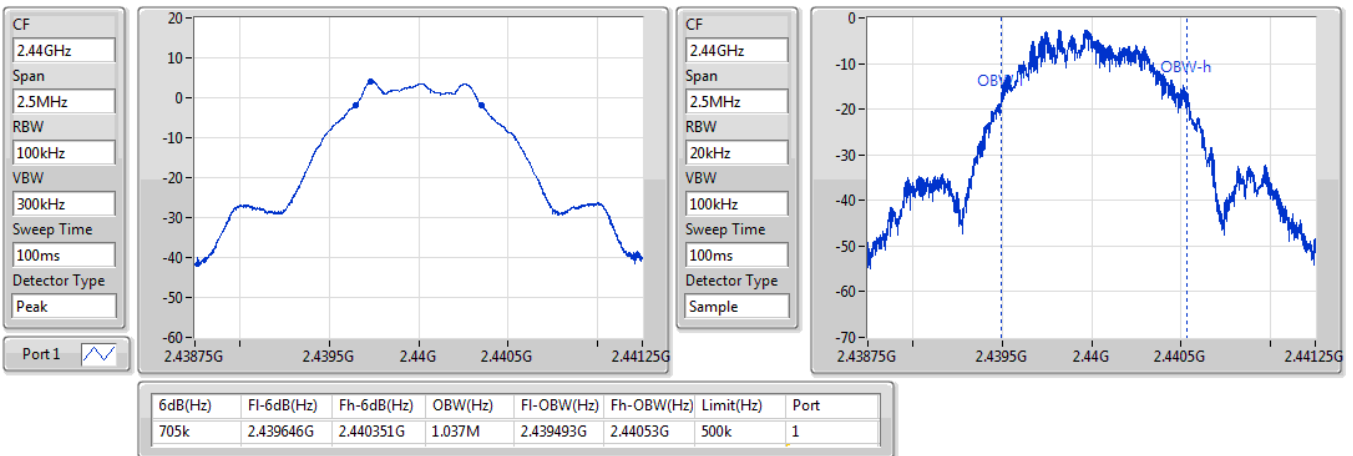
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-LE(1Mbps)
2402MHz
EBW-DTS

18/03/2022

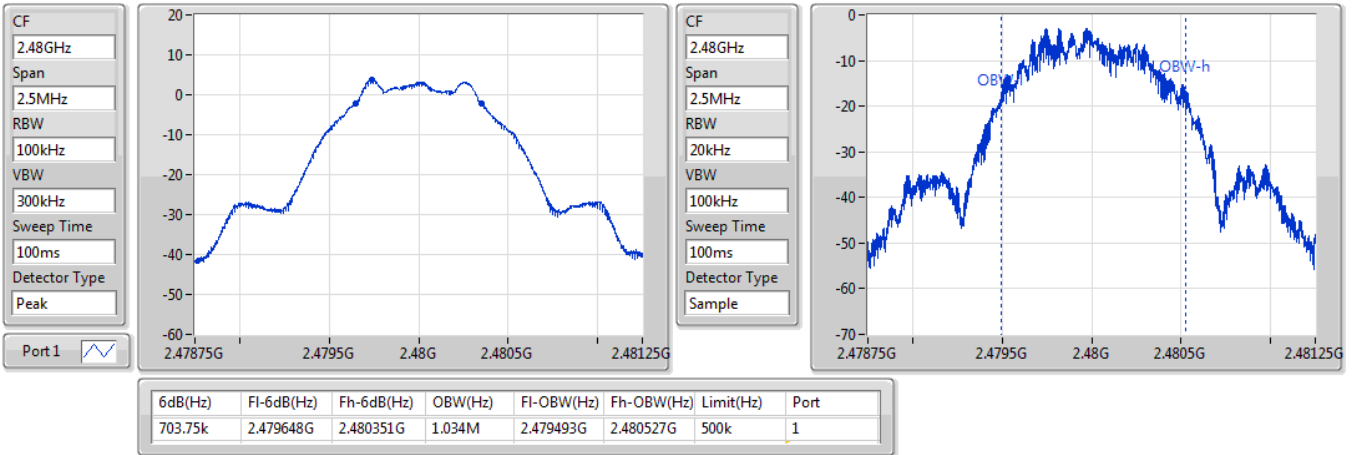

BT-LE(1Mbps)
2440MHz
EBW-DTS

18/03/2022

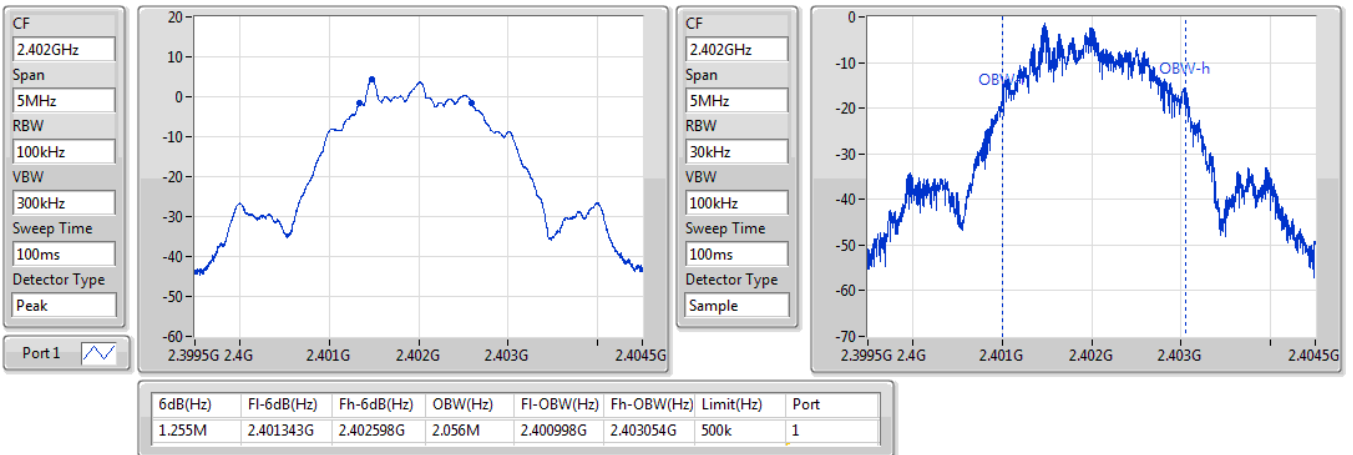


BT-LE(1Mbps)
EBW-DTS
2480MHz

18/03/2022

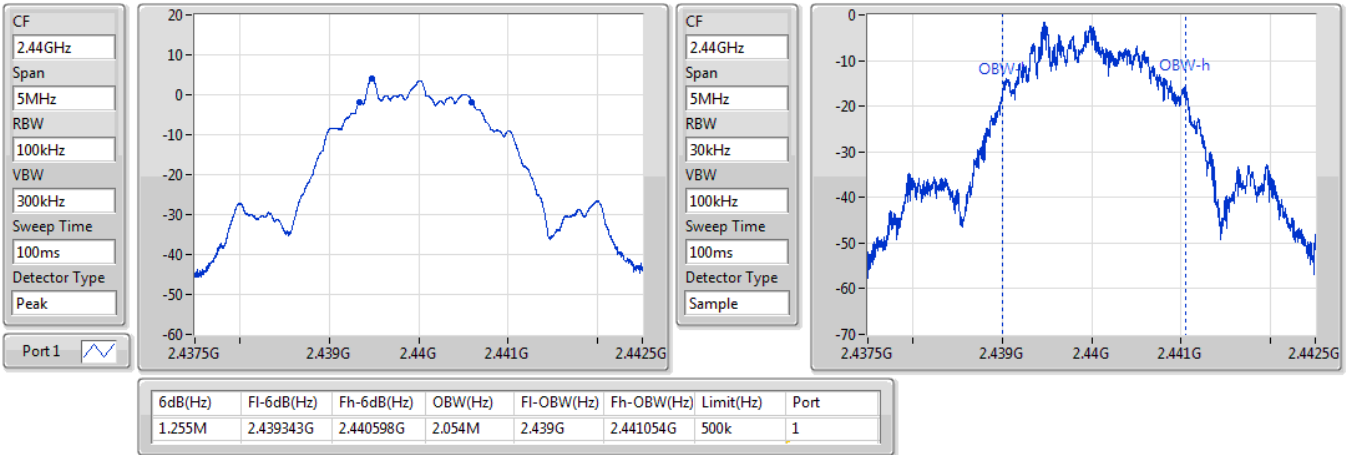

BT-LE(2Mbps)
EBW-DTS
2402MHz

18/03/2022

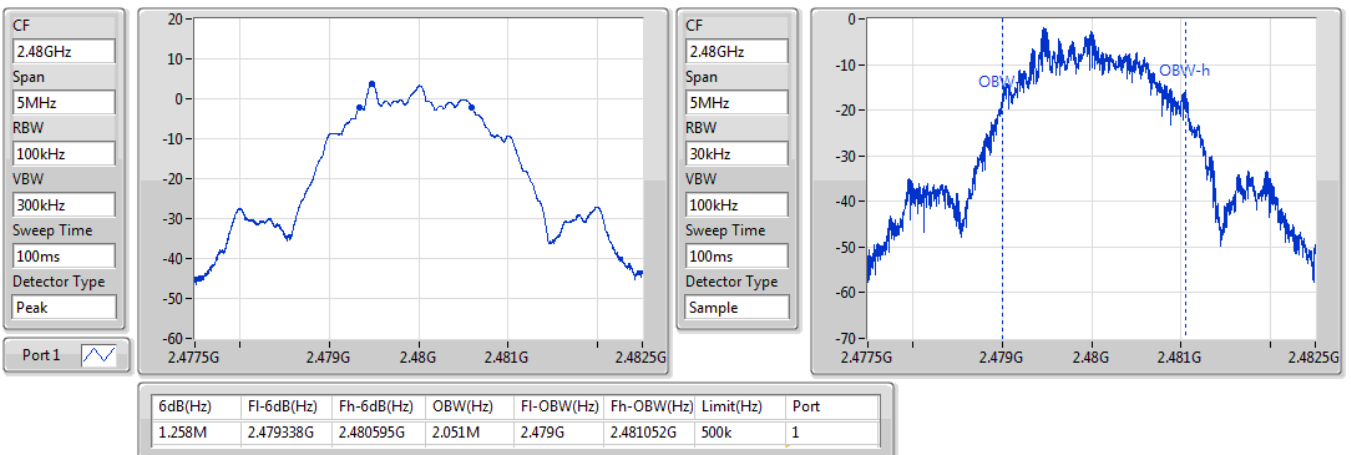


BT-LE(2Mbps)
EBW-DTS
2440MHz

18/03/2022


BT-LE(2Mbps)
EBW-DTS
2480MHz

18/03/2022





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-L.E(1Mbps)	4.31	0.00270
BT-L.E(2Mbps)	4.30	0.00269



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	-2.30	4.31	30.00
2440MHz	Pass	-2.30	4.14	30.00
2480MHz	Pass	-2.30	4.05	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	-2.30	4.30	30.00
2440MHz	Pass	-2.30	3.99	30.00
2480MHz	Pass	-2.30	4.08	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-11.54
BT-LE(2Mbps)	-15.21

RBW = 3kHz;

Result

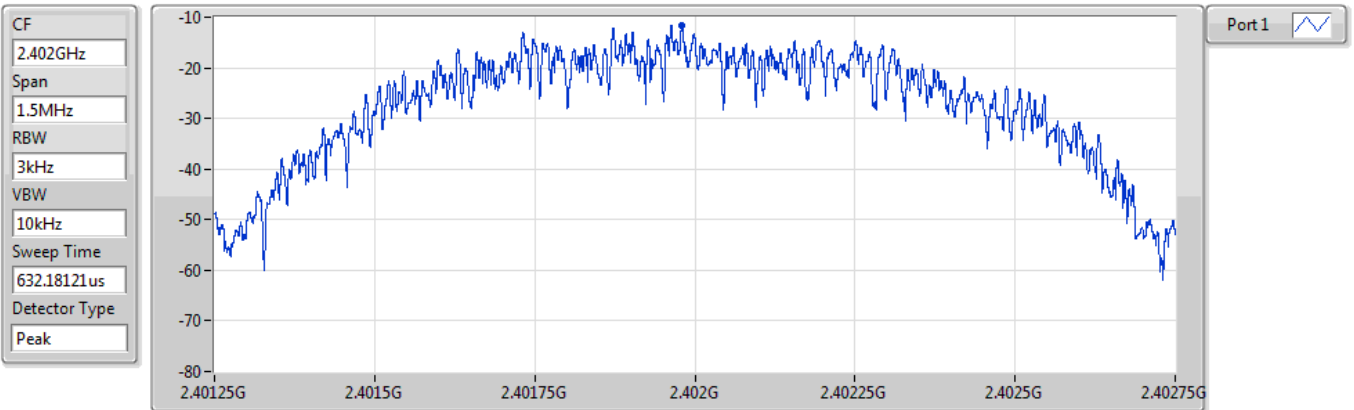
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	-2.30	-11.54	8.00
2440MHz	Pass	-2.30	-11.70	8.00
2480MHz	Pass	-2.30	-11.99	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	-2.30	-15.21	8.00
2440MHz	Pass	-2.30	-15.40	8.00
2480MHz	Pass	-2.30	-15.78	8.00

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

18/03/2022

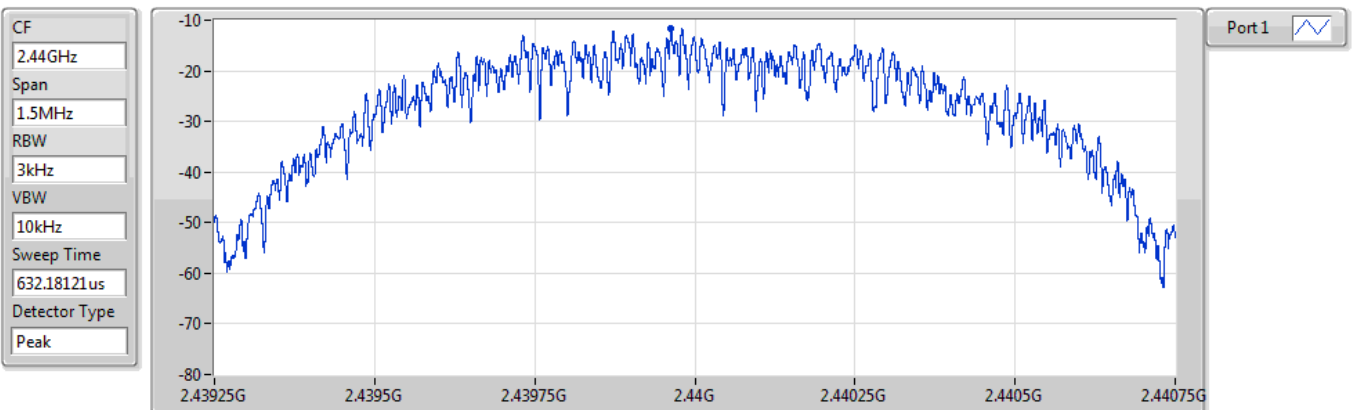


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.54	-11.54	-11.54

BT-LE(1Mbps)

2440MHz

18/03/2022



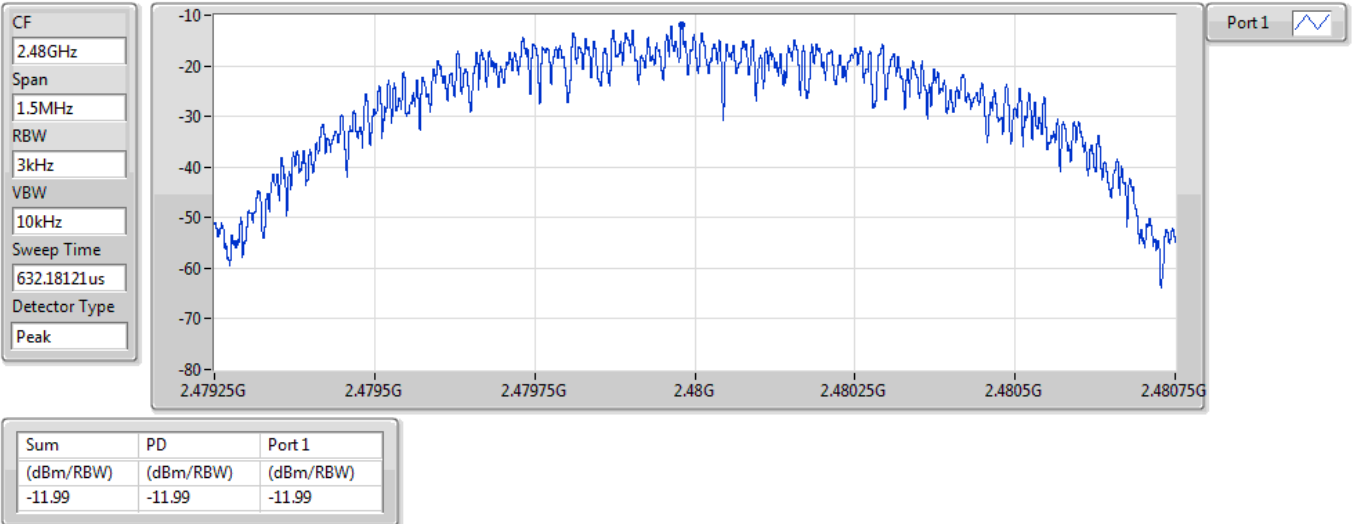
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.70	-11.70	-11.70

BT-LE(1Mbps)

PSD

2480MHz

18/03/2022

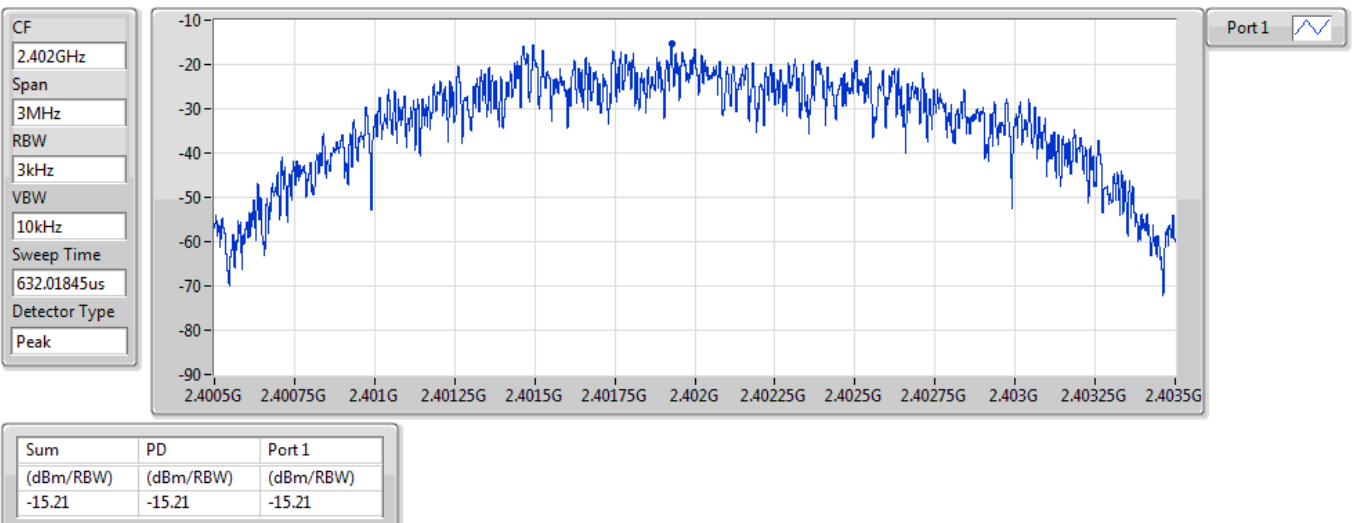


BT-LE(2Mbps)

PSD

2402MHz

18/03/2022

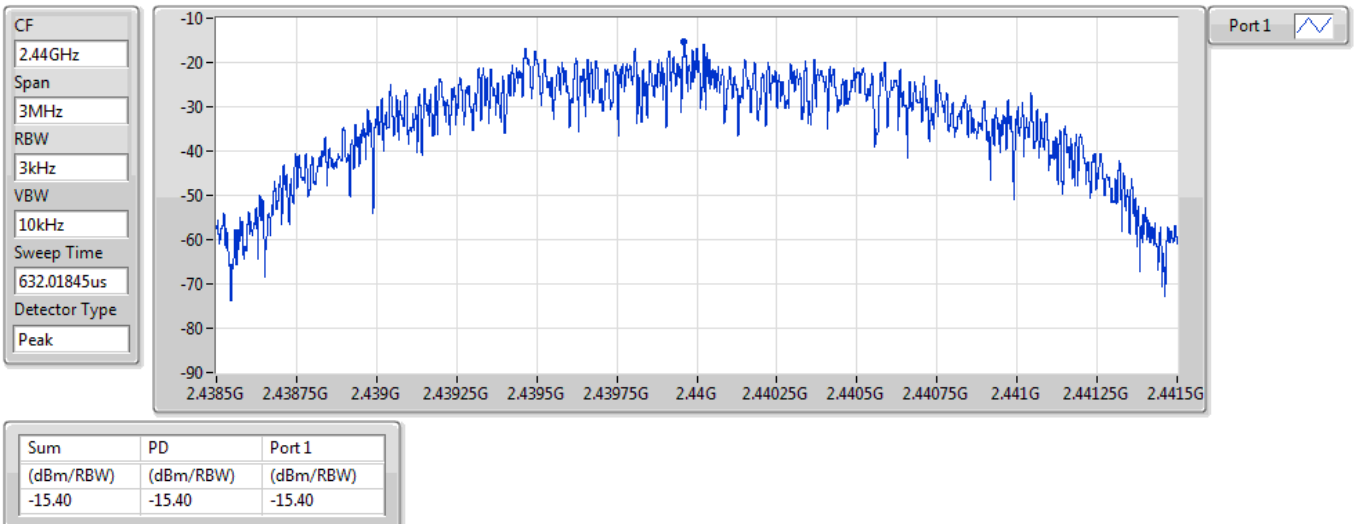


BT-LE(2Mbps)

PSD

2440MHz

18/03/2022

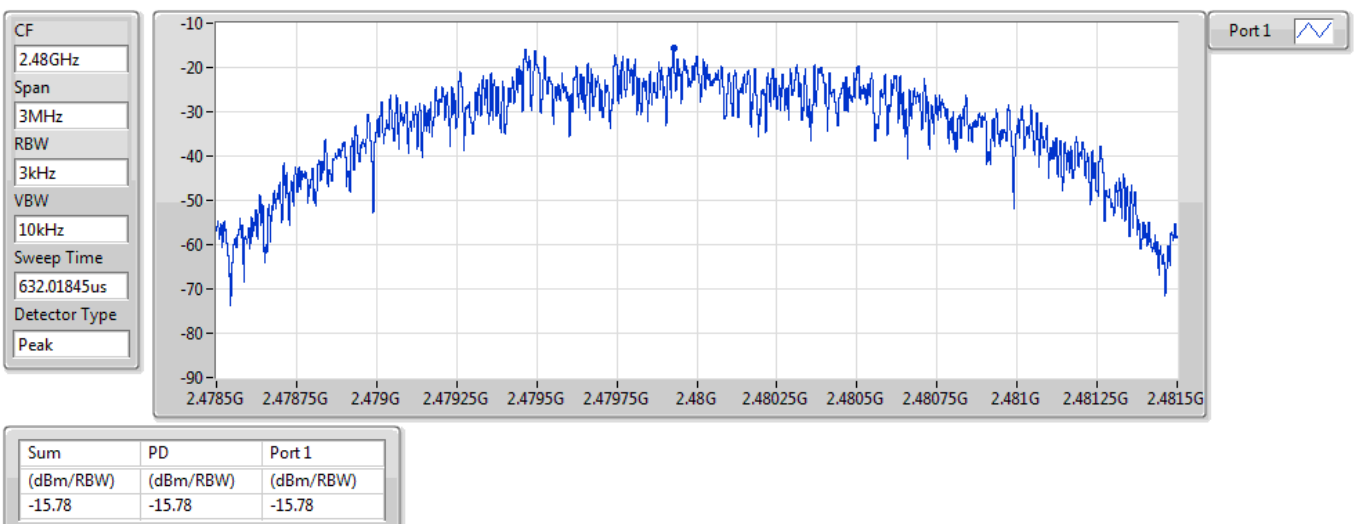


BT-LE(2Mbps)

PSD

2480MHz

18/03/2022





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	2.40171G	3.78	-26.22	2.0933G	-54.97	2.4G	-48.06	2.4G	-48.80	2.50003G	-54.00	16.30791G	-41.58	1
BT-LE(2Mbps)	Pass	2.40146G	4.04	-25.96	2.13854G	-55.66	2.39998G	-27.06	2.4G	-26.81	2.50217G	-53.96	16.85345G	-43.78	1

**Result**

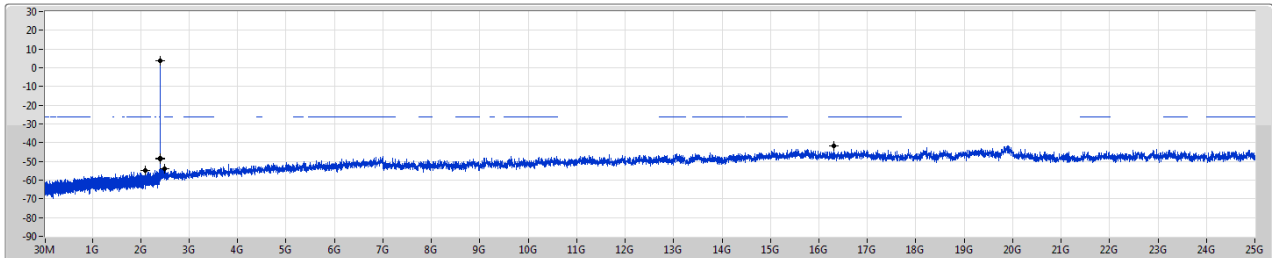
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40171G	3.78	-26.22	2.0933G	-54.97	2.4G	-48.06	2.4G	-48.80	2.50003G	-54.00	16.30791G	-41.58	1
2440MHz	Pass	2.40171G	3.78	-26.22	2.12297G	-55.69	2.39709G	-52.94	2.4G	-55.79	2.50116G	-54.13	16.71848G	-42.42	1
2480MHz	Pass	2.40171G	3.78	-26.22	2.14383G	-55.77	2.39609G	-54.51	2.4G	-56.49	2.50243G	-53.48	15.26183G	-42.17	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40146G	4.04	-25.96	2.13854G	-55.66	2.39998G	-27.06	2.4G	-26.81	2.50217G	-53.96	16.85345G	-43.78	1
2440MHz	Pass	2.40146G	4.04	-25.96	2.3001G	-55.96	2.3985G	-55.03	2.4G	-58.61	2.5031G	-54.00	15.26183G	-43.39	1
2480MHz	Pass	2.40146G	4.04	-25.96	2.15851G	-55.76	2.3984G	-55.19	2.4G	-57.51	2.50047G	-54.22	16.2348G	-42.55	1

BT-LE(1Mbps)

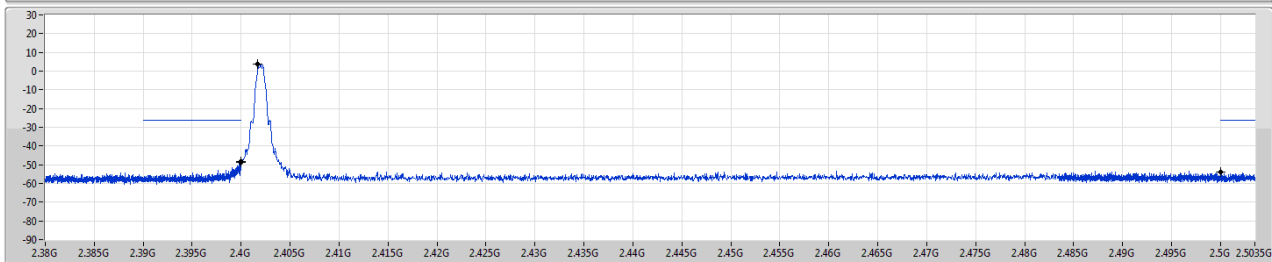
CSEndB-DTS

2402MHz

18/03/2022



Port1



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

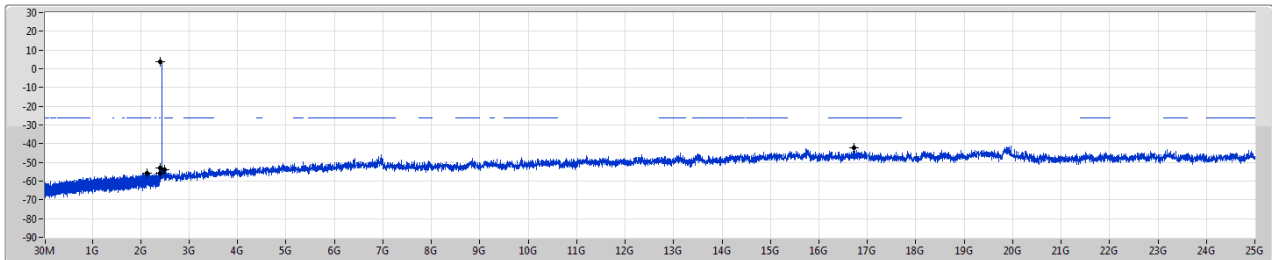
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40171G	3.78	-26.22	2.0933G	-54.97	2.4G	-48.06	2.4G	-48.80	2.50003G	-54.00	16.30791G	-41.58	1

BT-LE(1Mbps)

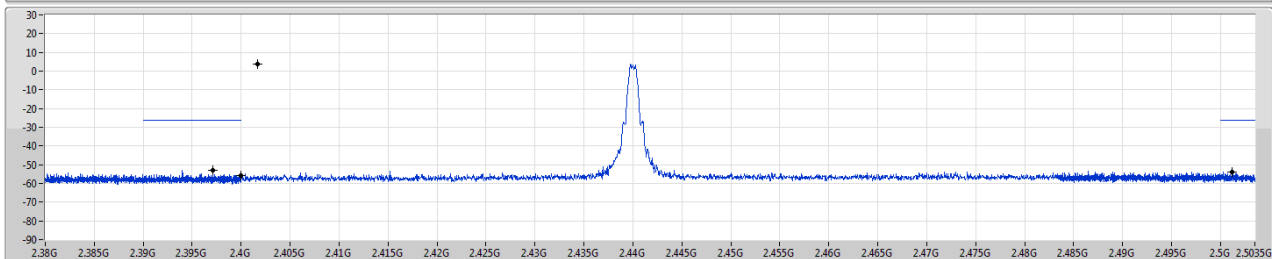
CSEndB-DTS

2440MHz

18/03/2022



Port1



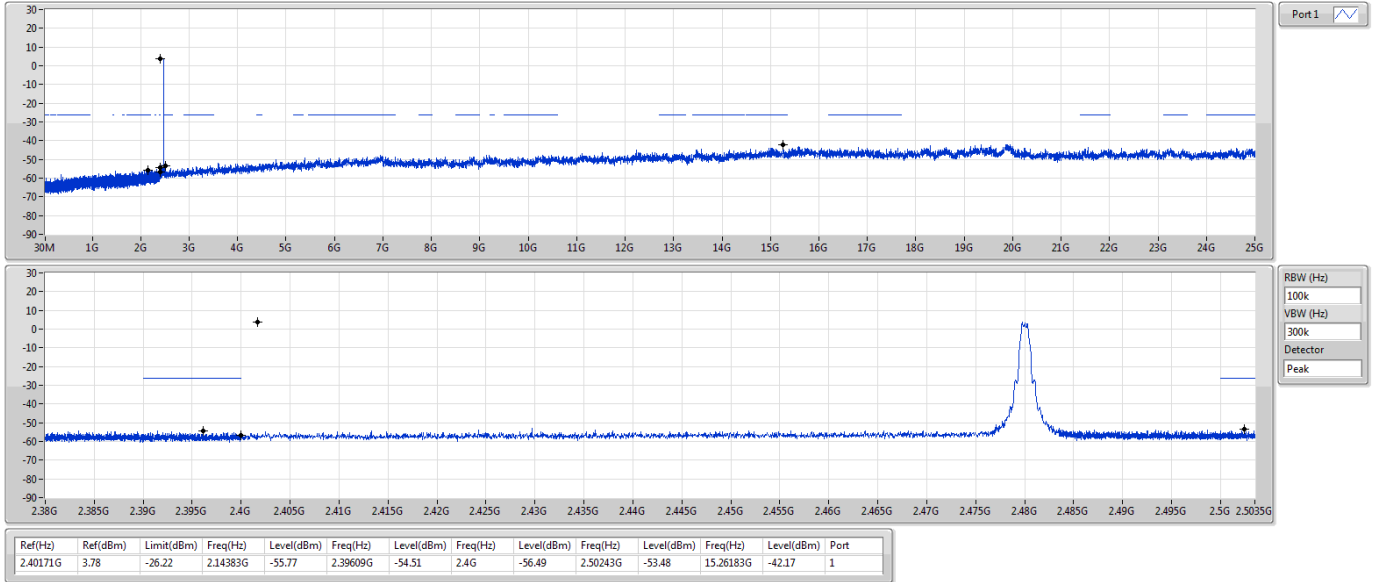
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40171G	3.78	-26.22	2.12297G	-55.69	2.39709G	-52.94	2.4G	-55.79	2.50116G	-54.13	16.71848G	-42.42	1

BT-LE(1Mbps)

CSEndB-DTS

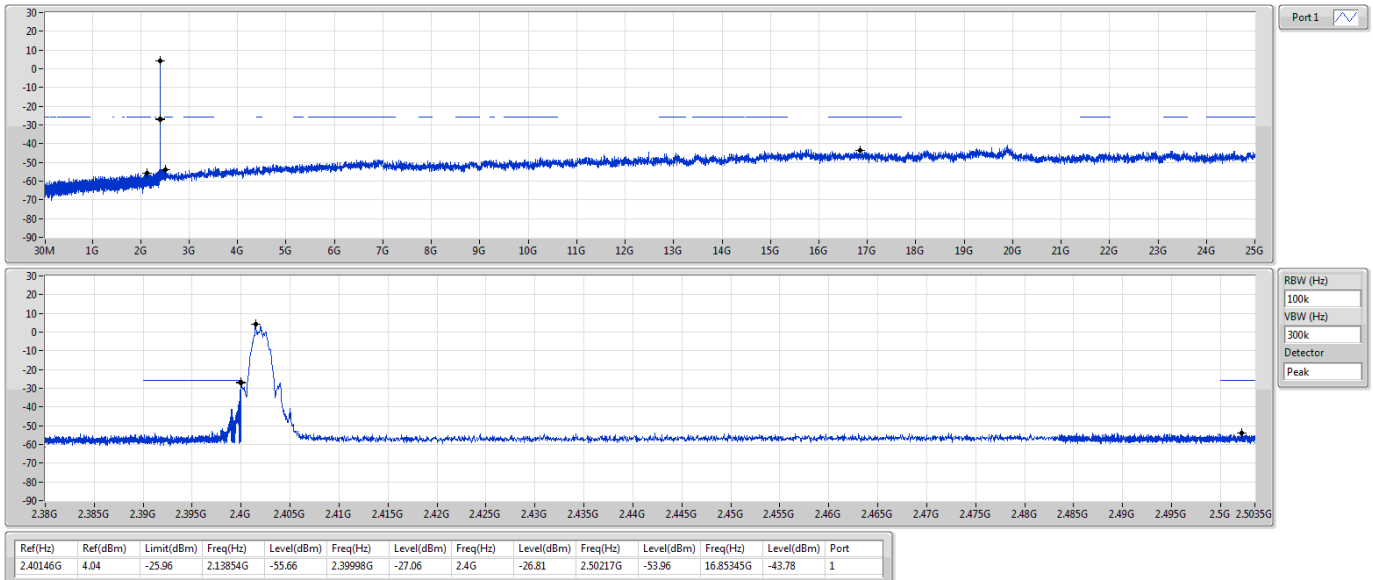
2480MHz



BT-LE(2Mbps)

CSEndB-DTS

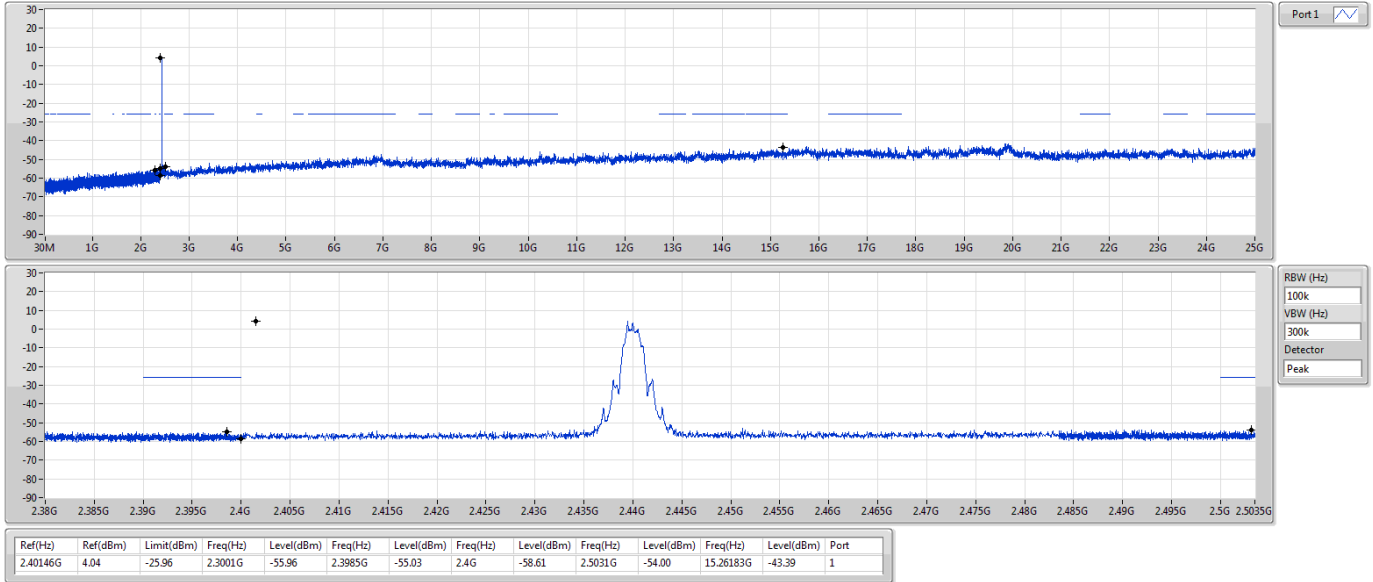
2402MHz



BT-LE(2Mbps)

CSEndB-DTS

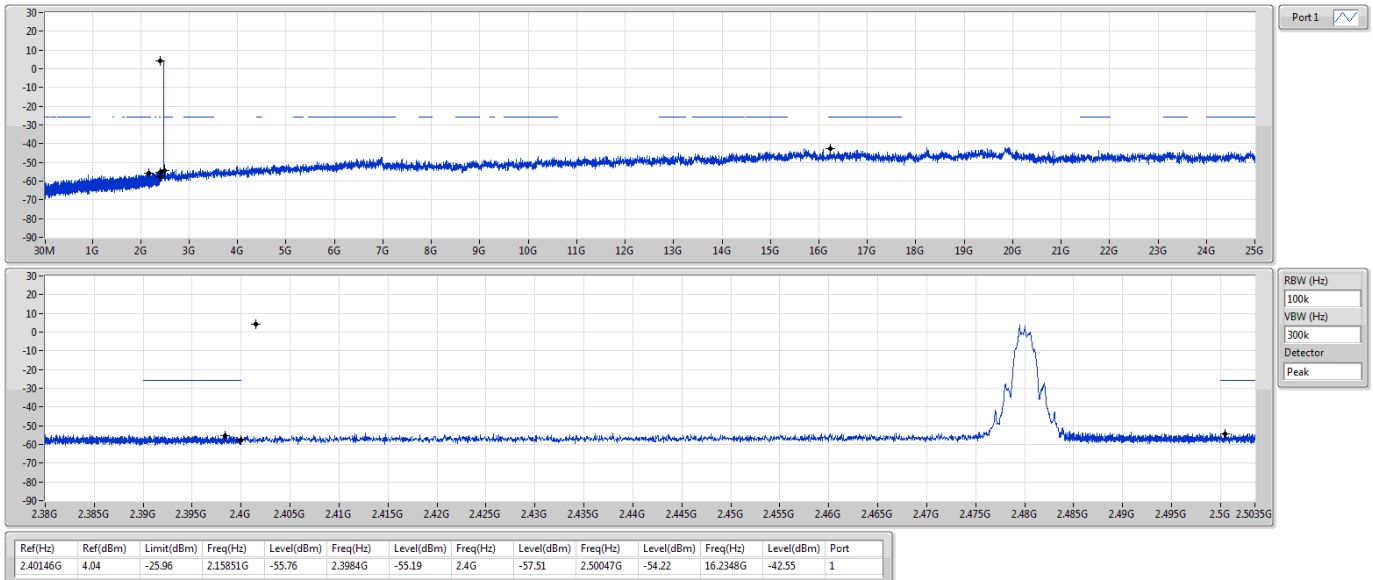
2440MHz



BT-LE(2Mbps)

CSEndB-DTS

2480MHz





Summary

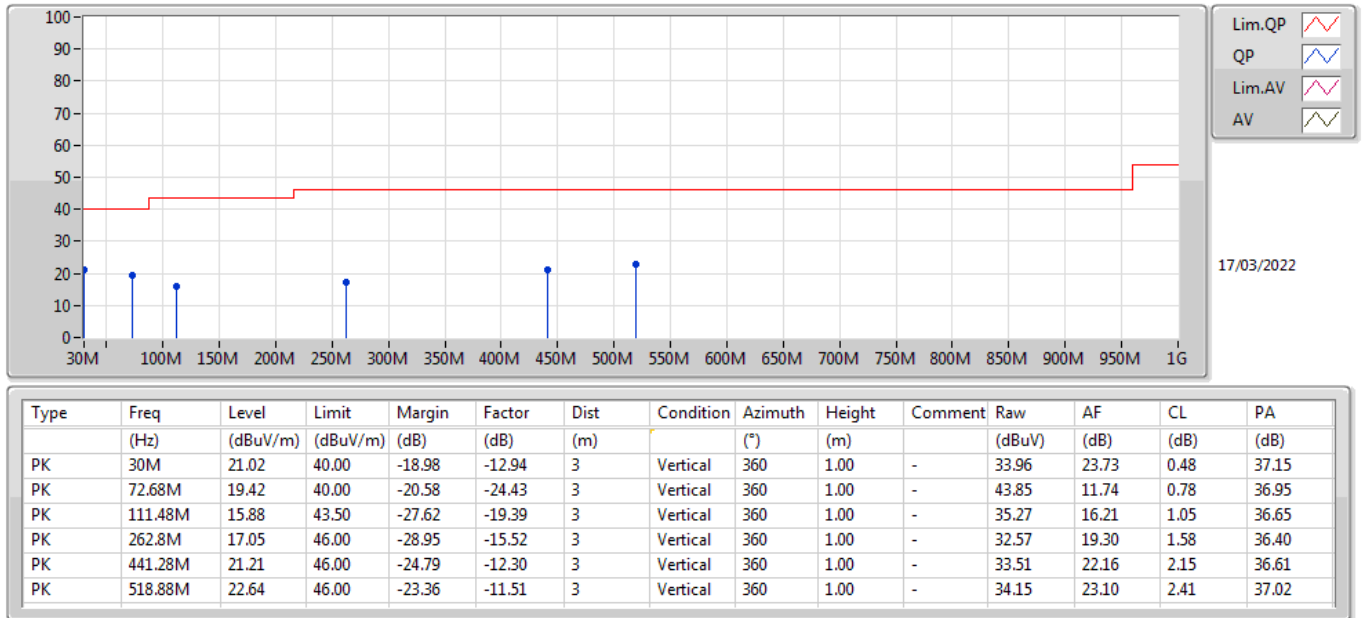
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	30M	21.02	40.00	-18.98	3	Vertical	360	1.00	-

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	21.02	40.00	-18.98	3	Vertical	360	1.00	-
2440MHz	Pass	PK	72.68M	19.42	40.00	-20.58	3	Vertical	360	1.00	-
2440MHz	Pass	PK	111.48M	15.88	43.50	-27.62	3	Vertical	360	1.00	-
2440MHz	Pass	PK	262.8M	17.05	46.00	-28.95	3	Vertical	360	1.00	-
2440MHz	Pass	PK	441.28M	21.21	46.00	-24.79	3	Vertical	360	1.00	-
2440MHz	Pass	PK	518.88M	22.64	46.00	-23.36	3	Vertical	360	1.00	-
2440MHz	Pass	PK	30M	20.35	40.00	-19.65	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	111.48M	14.83	43.50	-28.67	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	258.92M	16.98	46.00	-29.02	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	396.66M	19.77	46.00	-26.23	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	507.24M	22.07	46.00	-23.93	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	569.32M	24.76	46.00	-21.24	3	Horizontal	0	1.00	-

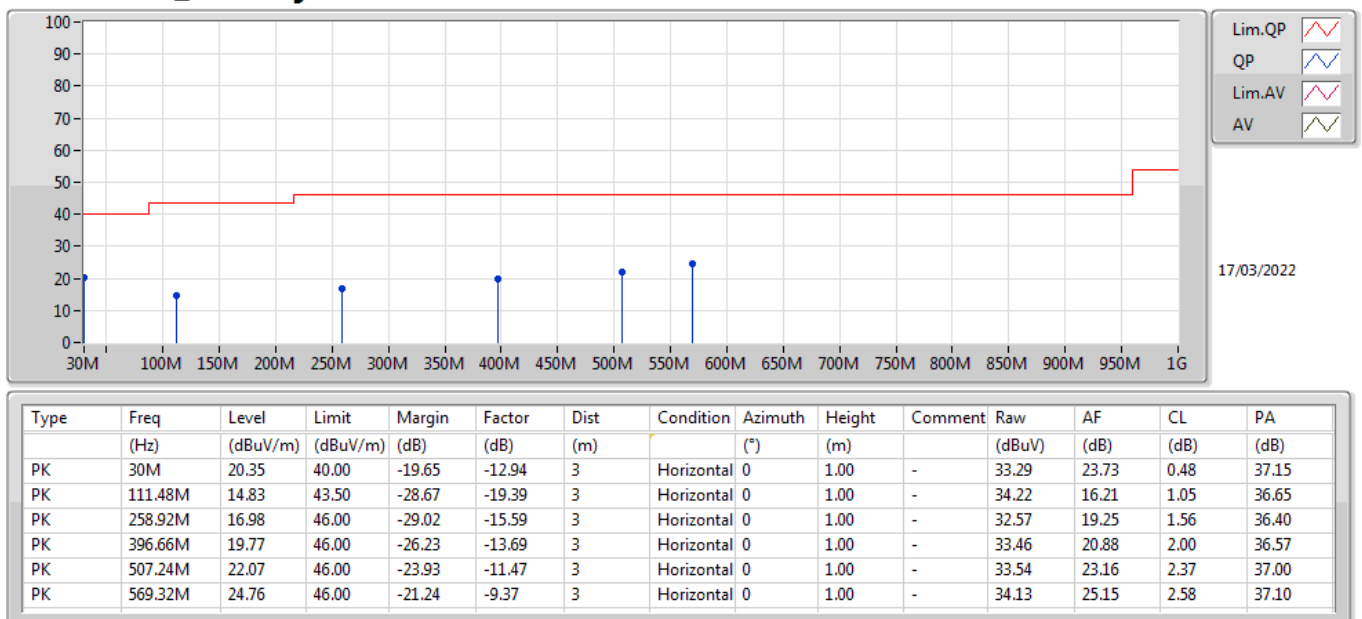
BT-LE(2Mbps)

2440MHz_Battery



BT-LE(2Mbps)

2440MHz_Battery





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	2.5G	47.63	54.00	-6.37	3	Vertical	158	1.10	-
BT-LE(2Mbps)	Pass	AV	2.4928G	49.12	54.00	-4.88	3	Vertical	156	1.12	-

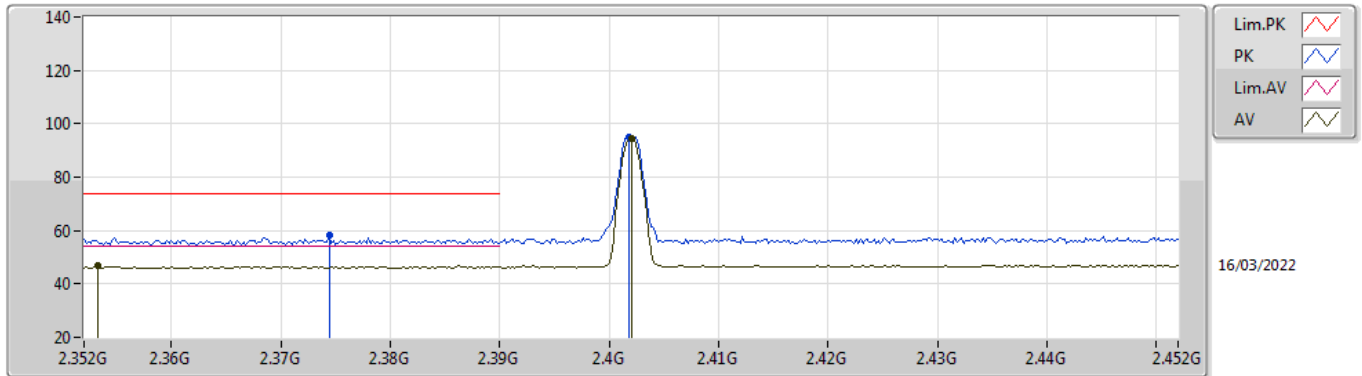
Result

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	2.3532G	46.68	54.00	-7.32	3	Vertical	143	2.77	-
2402MHz	Pass	AV	2.402G	94.42	Inf	-Inf	3	Vertical	143	2.77	-
2402MHz	Pass	PK	2.3744G	58.16	74.00	-15.84	3	Vertical	143	2.77	-
2402MHz	Pass	PK	2.4018G	95.20	Inf	-Inf	3	Vertical	143	2.77	-
2402MHz	Pass	AV	2.388G	46.68	54.00	-7.32	3	Horizontal	202	1.69	-
2402MHz	Pass	AV	2.402G	93.62	Inf	-Inf	3	Horizontal	202	1.69	-
2402MHz	Pass	PK	2.372G	57.35	74.00	-16.65	3	Horizontal	202	1.69	-
2402MHz	Pass	PK	2.4018G	94.37	Inf	-Inf	3	Horizontal	202	1.69	-
2402MHz	Pass	AV	3.60302G	44.89	54.00	-9.11	3	Vertical	278	2.09	-
2402MHz	Pass	AV	4.80183G	35.48	54.00	-18.52	3	Vertical	218	1.50	-
2402MHz	Pass	PK	3.60349G	49.85	74.00	-24.15	3	Vertical	278	2.09	-
2402MHz	Pass	PK	4.80438G	46.71	74.00	-27.29	3	Vertical	218	1.50	-
2402MHz	Pass	AV	3.60302G	46.26	54.00	-7.74	3	Horizontal	116	1.10	-
2402MHz	Pass	AV	4.80157G	35.68	54.00	-18.32	3	Horizontal	289	1.50	-
2402MHz	Pass	PK	3.60359G	50.86	74.00	-23.14	3	Horizontal	116	1.10	-
2402MHz	Pass	PK	4.80209G	46.50	74.00	-27.50	3	Horizontal	289	1.50	-
2440MHz	Pass	AV	2.3804G	46.49	54.00	-7.51	3	Vertical	159	1.12	-
2440MHz	Pass	AV	2.44G	91.69	Inf	-Inf	3	Vertical	159	1.12	-
2440MHz	Pass	AV	2.496G	47.56	54.00	-6.44	3	Vertical	159	1.12	-
2440MHz	Pass	PK	2.3868G	57.32	74.00	-16.68	3	Vertical	159	1.12	-
2440MHz	Pass	PK	2.4404G	92.41	Inf	-Inf	3	Vertical	159	1.12	-
2440MHz	Pass	PK	2.4948G	57.14	74.00	-16.86	3	Vertical	159	1.12	-
2440MHz	Pass	AV	2.3844G	46.43	54.00	-7.57	3	Horizontal	200	1.89	-
2440MHz	Pass	AV	2.44G	90.32	Inf	-Inf	3	Horizontal	200	1.89	-
2440MHz	Pass	AV	2.4896G	47.42	54.00	-6.58	3	Horizontal	200	1.89	-
2440MHz	Pass	PK	2.3436G	57.45	74.00	-16.55	3	Horizontal	200	1.89	-
2440MHz	Pass	PK	2.4396G	91.03	Inf	-Inf	3	Horizontal	200	1.89	-
2440MHz	Pass	PK	2.4988G	58.20	74.00	-15.80	3	Horizontal	200	1.89	-
2440MHz	Pass	AV	3.66002G	42.79	54.00	-11.21	3	Vertical	278	2.65	-
2440MHz	Pass	AV	4.87944G	35.10	54.00	-18.90	3	Vertical	25	1.46	-
2440MHz	Pass	AV	7.3194G	41.81	54.00	-12.19	3	Vertical	177	1.21	-
2440MHz	Pass	PK	3.6596G	48.90	74.00	-25.10	3	Vertical	278	2.65	-
2440MHz	Pass	PK	4.87954G	46.70	74.00	-27.30	3	Vertical	25	1.46	-
2440MHz	Pass	PK	7.31943G	52.53	74.00	-21.47	3	Vertical	177	1.21	-
2440MHz	Pass	AV	3.65996G	43.22	54.00	-10.78	3	Horizontal	162	1.00	-
2440MHz	Pass	AV	4.87837G	35.26	54.00	-18.74	3	Horizontal	278	2.48	-
2440MHz	Pass	AV	7.31928G	43.48	54.00	-10.52	3	Horizontal	168	1.00	-
2440MHz	Pass	PK	3.6595G	49.17	74.00	-24.83	3	Horizontal	162	1.00	-
2440MHz	Pass	PK	4.88003G	46.48	74.00	-27.52	3	Horizontal	278	2.48	-
2440MHz	Pass	PK	7.32086G	52.93	74.00	-21.07	3	Horizontal	168	1.00	-
2480MHz	Pass	AV	2.48G	90.87	Inf	-Inf	3	Vertical	158	1.10	-
2480MHz	Pass	AV	2.5G	47.63	54.00	-6.37	3	Vertical	158	1.10	-
2480MHz	Pass	PK	2.4798G	91.62	Inf	-Inf	3	Vertical	158	1.10	-
2480MHz	Pass	PK	2.4835G	58.51	74.00	-15.49	3	Vertical	158	1.10	-
2480MHz	Pass	AV	2.48G	88.26	Inf	-Inf	3	Horizontal	154	2.70	-
2480MHz	Pass	AV	2.4986G	47.48	54.00	-6.52	3	Horizontal	154	2.70	-
2480MHz	Pass	PK	2.4798G	89.02	Inf	-Inf	3	Horizontal	154	2.70	-
2480MHz	Pass	PK	2.4912G	58.61	74.00	-15.39	3	Horizontal	154	2.70	-
2480MHz	Pass	AV	3.71997G	39.15	54.00	-14.85	3	Vertical	234	1.17	-
2480MHz	Pass	AV	4.96023G	37.03	54.00	-16.97	3	Vertical	102	1.06	-
2480MHz	Pass	AV	7.43937G	42.13	54.00	-11.87	3	Vertical	178	1.50	-
2480MHz	Pass	PK	3.71995G	46.77	74.00	-27.23	3	Vertical	234	1.17	-
2480MHz	Pass	PK	4.96071G	47.19	74.00	-26.81	3	Vertical	102	1.06	-
2480MHz	Pass	PK	7.43947G	52.67	74.00	-21.33	3	Vertical	178	1.50	-
2480MHz	Pass	AV	3.72004G	40.36	54.00	-13.64	3	Horizontal	165	1.14	-
2480MHz	Pass	AV	4.96024G	36.35	54.00	-17.65	3	Horizontal	181	1.08	-
2480MHz	Pass	AV	7.43927G	44.41	54.00	-9.59	3	Horizontal	153	1.09	-
2480MHz	Pass	PK	3.72038G	47.25	74.00	-26.75	3	Horizontal	165	1.14	-
2480MHz	Pass	PK	4.95986G	47.02	74.00	-26.98	3	Horizontal	181	1.08	-
2480MHz	Pass	PK	7.43924G	53.56	74.00	-20.44	3	Horizontal	153	1.09	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3628G	48.21	54.00	-5.79	3	Vertical	146	1.84	-
2402MHz	Pass	AV	2.402G	93.29	Inf	-Inf	3	Vertical	146	1.84	-
2402MHz	Pass	PK	2.3752G	57.61	74.00	-16.39	3	Vertical	146	1.84	-
2402MHz	Pass	PK	2.4014G	95.40	Inf	-Inf	3	Vertical	146	1.84	-
2402MHz	Pass	AV	2.3546G	48.24	54.00	-5.76	3	Horizontal	204	1.70	-
2402MHz	Pass	AV	2.402G	92.17	Inf	-Inf	3	Horizontal	204	1.70	-
2402MHz	Pass	PK	2.3566G	56.74	74.00	-17.26	3	Horizontal	204	1.70	-
2402MHz	Pass	PK	2.4014G	94.28	Inf	-Inf	3	Horizontal	204	1.70	-
2402MHz	Pass	AV	3.60211G	44.18	54.00	-9.82	3	Vertical	234	1.18	-
2402MHz	Pass	AV	4.80164G	36.65	54.00	-17.35	3	Vertical	157	2.10	-
2402MHz	Pass	PK	3.60229G	49.22	74.00	-24.78	3	Vertical	234	1.18	-
2402MHz	Pass	PK	4.8017G	46.57	74.00	-27.43	3	Vertical	157	2.10	-
2402MHz	Pass	AV	3.60223G	45.57	54.00	-8.43	3	Horizontal	116	1.11	-
2402MHz	Pass	AV	4.80173G	36.86	54.00	-17.14	3	Horizontal	95	1.50	-
2402MHz	Pass	PK	3.60215G	50.33	74.00	-23.67	3	Horizontal	116	1.11	-
2402MHz	Pass	PK	4.80409G	46.62	74.00	-27.38	3	Horizontal	95	1.50	-
2440MHz	Pass	AV	2.3864G	48.09	54.00	-5.91	3	Vertical	156	1.12	-
2440MHz	Pass	AV	2.44G	90.44	Inf	-Inf	3	Vertical	156	1.12	-
2440MHz	Pass	AV	2.4928G	49.12	54.00	-4.88	3	Vertical	156	1.12	-
2440MHz	Pass	PK	2.3808G	57.47	74.00	-16.53	3	Vertical	156	1.12	-
2440MHz	Pass	PK	2.4404G	92.54	Inf	-Inf	3	Vertical	156	1.12	-
2440MHz	Pass	PK	2.4964G	57.93	74.00	-16.07	3	Vertical	156	1.12	-
2440MHz	Pass	AV	2.3708G	48.19	54.00	-5.81	3	Horizontal	200	1.90	-
2440MHz	Pass	AV	2.44G	89.04	Inf	-Inf	3	Horizontal	200	1.90	-
2440MHz	Pass	AV	2.4932G	48.90	54.00	-5.10	3	Horizontal	200	1.90	-
2440MHz	Pass	PK	2.384G	57.35	74.00	-16.65	3	Horizontal	200	1.90	-
2440MHz	Pass	PK	2.4396G	91.20	Inf	-Inf	3	Horizontal	200	1.90	-
2440MHz	Pass	PK	2.4912G	58.58	74.00	-15.42	3	Horizontal	200	1.90	-
2440MHz	Pass	AV	3.65916G	41.70	54.00	-12.30	3	Vertical	234	1.35	-
2440MHz	Pass	AV	4.87949G	36.59	54.00	-17.41	3	Vertical	128	1.50	-
2440MHz	Pass	AV	7.31842G	42.70	54.00	-11.30	3	Vertical	178	1.48	-
2440MHz	Pass	PK	3.65919G	47.55	74.00	-26.45	3	Vertical	234	1.35	-
2440MHz	Pass	PK	4.87911G	46.28	74.00	-27.72	3	Vertical	128	1.50	-
2440MHz	Pass	PK	7.31872G	51.49	74.00	-22.51	3	Vertical	178	1.48	-
2440MHz	Pass	AV	3.65932G	42.56	54.00	-11.44	3	Horizontal	162	1.00	-
2440MHz	Pass	AV	4.87773G	36.74	54.00	-17.26	3	Horizontal	222	1.50	-
2440MHz	Pass	AV	7.31839G	44.27	54.00	-9.73	3	Horizontal	165	1.00	-
2440MHz	Pass	PK	3.65914G	48.35	74.00	-25.65	3	Horizontal	162	1.00	-
2440MHz	Pass	PK	4.87758G	46.28	74.00	-27.72	3	Horizontal	222	1.50	-
2440MHz	Pass	PK	7.31838G	52.94	74.00	-21.06	3	Horizontal	165	1.00	-
2480MHz	Pass	AV	2.48G	89.53	Inf	-Inf	3	Vertical	158	1.10	-
2480MHz	Pass	AV	2.4835G	49.07	54.00	-4.93	3	Vertical	158	1.10	-
2480MHz	Pass	PK	2.4794G	91.63	Inf	-Inf	3	Vertical	158	1.10	-
2480MHz	Pass	PK	2.4988G	58.03	74.00	-15.97	3	Vertical	158	1.10	-
2480MHz	Pass	AV	2.48G	87.09	Inf	-Inf	3	Horizontal	154	2.69	-
2480MHz	Pass	AV	2.4858G	48.99	54.00	-5.01	3	Horizontal	154	2.69	-
2480MHz	Pass	PK	2.4794G	89.22	Inf	-Inf	3	Horizontal	154	2.69	-
2480MHz	Pass	PK	2.4906G	58.28	74.00	-15.72	3	Horizontal	154	2.69	-
2480MHz	Pass	AV	3.71927G	39.14	54.00	-14.86	3	Vertical	232	1.17	-
2480MHz	Pass	AV	4.95904G	38.33	54.00	-15.67	3	Vertical	54	1.12	-
2480MHz	Pass	AV	7.44135G	44.30	54.00	-9.70	3	Vertical	180	1.17	-
2480MHz	Pass	PK	3.71931G	46.09	74.00	-27.91	3	Vertical	232	1.17	-
2480MHz	Pass	PK	4.96084G	48.10	74.00	-25.90	3	Vertical	54	1.12	-
2480MHz	Pass	PK	7.44165G	53.43	74.00	-20.57	3	Vertical	180	1.17	-
2480MHz	Pass	AV	3.71927G	40.00	54.00	-14.00	3	Horizontal	161	1.12	-
2480MHz	Pass	AV	4.95888G	37.53	54.00	-16.47	3	Horizontal	186	1.38	-
2480MHz	Pass	AV	7.43846G	44.77	54.00	-9.23	3	Horizontal	152	1.29	-
2480MHz	Pass	PK	3.72011G	46.92	74.00	-27.08	3	Horizontal	161	1.12	-
2480MHz	Pass	PK	4.96037G	46.97	74.00	-27.03	3	Horizontal	186	1.38	-
2480MHz	Pass	PK	7.43853G	52.79	74.00	-21.21	3	Horizontal	152	1.29	-

BT-LE(1Mbps)

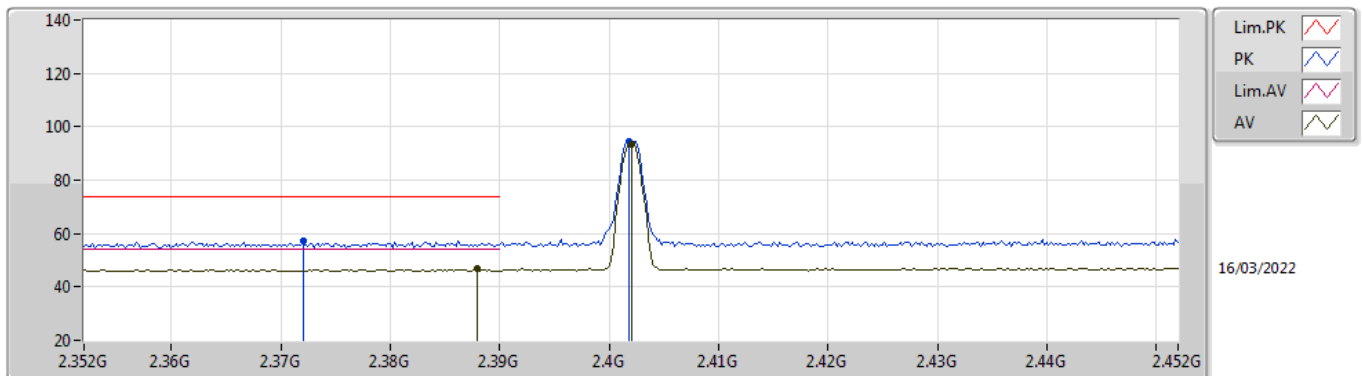
2402MHz_TX



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	2.3532G	46.68	54.00	-7.32	31.76	3	Vertical	143	2.77	-	14.92	27.22	4.54	-
AV	2.402G	94.42	Inf	-Inf	32.08	3	Vertical	143	2.77	-	62.34	27.50	4.58	-
PK	2.3744G	58.16	74.00	-15.84	31.91	3	Vertical	143	2.77	-	26.25	27.35	4.56	-
PK	2.4018G	95.20	Inf	-Inf	32.08	3	Vertical	143	2.77	-	63.12	27.50	4.58	-

BT-LE(1Mbps)

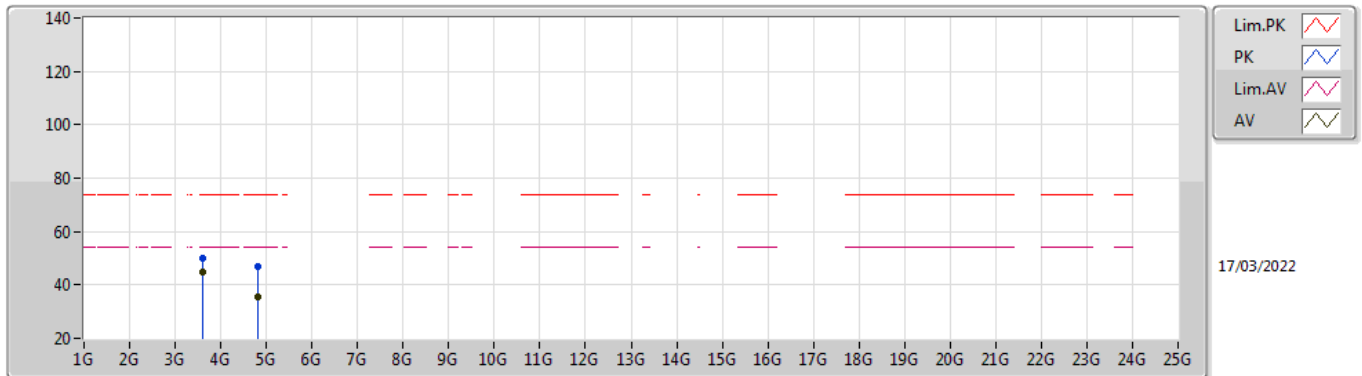
2402MHz_TX



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	2.388G	46.68	54.00	-7.32	32.00	3	Horizontal	202	1.69	-	14.68	27.43	4.57	-
AV	2.402G	93.62	Inf	-Inf	32.08	3	Horizontal	202	1.69	-	61.54	27.50	4.58	-
PK	2.372G	57.35	74.00	-16.65	31.88	3	Horizontal	202	1.69	-	25.47	27.33	4.55	-
PK	2.4018G	94.37	Inf	-Inf	32.08	3	Horizontal	202	1.69	-	62.29	27.50	4.58	-

BT-LE(1Mbps)

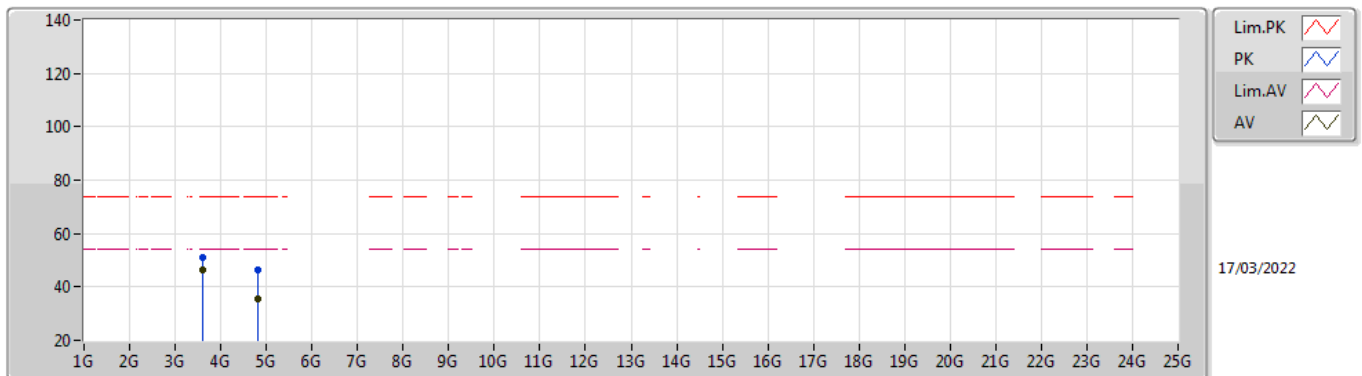
2402MHz_TX



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	3.60302G	44.89	54.00	-9.11	-0.03	3	Vertical	278	2.09	-	44.92	29.60	5.28	34.91
AV	4.80183G	35.48	54.00	-18.52	4.16	3	Vertical	218	1.50	-	31.32	32.31	6.66	34.81
PK	3.60349G	49.85	74.00	-24.15	-0.03	3	Vertical	278	2.09	-	49.88	29.60	5.28	34.91
PK	4.80438G	46.71	74.00	-27.29	4.18	3	Vertical	218	1.50	-	42.53	32.33	6.66	34.81

BT-LE(1Mbps)

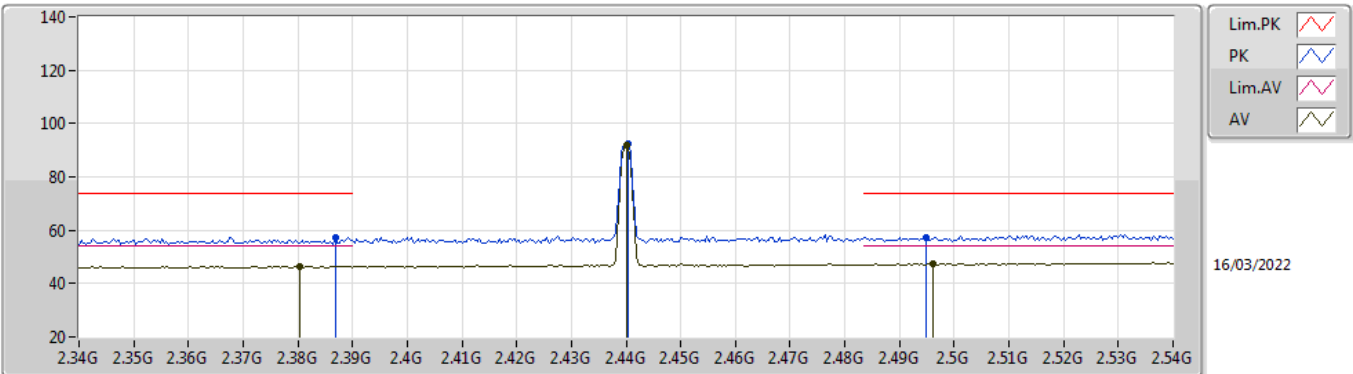
2402MHz_TX



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	3.60302G	46.26	54.00	-7.74	-0.03	3	Horizontal	116	1.10	-	46.29	29.60	5.28	34.91
AV	4.80157G	35.68	54.00	-18.32	4.16	3	Horizontal	289	1.50	-	31.52	32.31	6.66	34.81
PK	3.60359G	50.86	74.00	-23.14	-0.03	3	Horizontal	116	1.10	-	50.89	29.60	5.28	34.91
PK	4.80209G	46.50	74.00	-27.50	4.16	3	Horizontal	289	1.50	-	42.34	32.31	6.66	34.81

BT-LE(1Mbps)

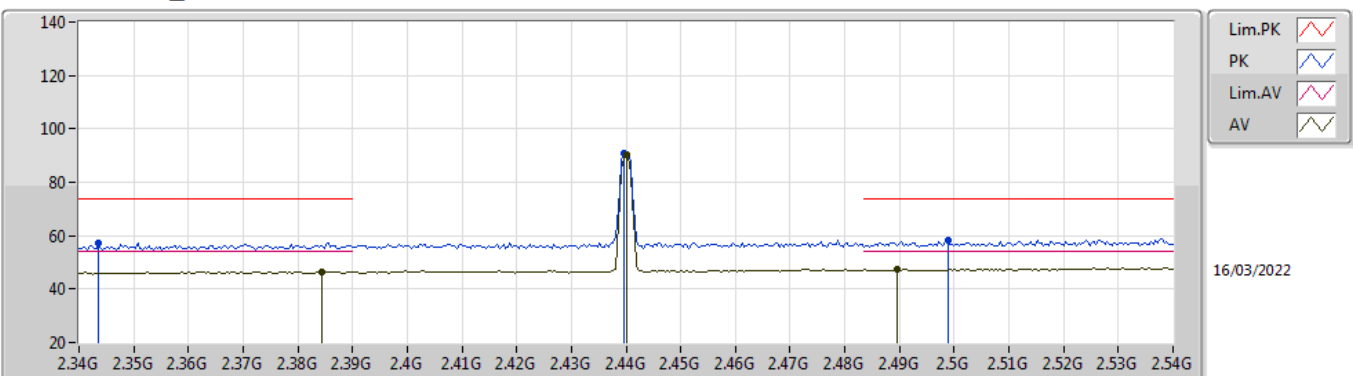
2440MHz_TX



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	2.3804G	46.49	54.00	-7.51	31.94	3	Vertical	159	1.12	-	14.55	27.38	4.56	-
AV	2.44G	91.69	Inf	-Inf	32.18	3	Vertical	159	1.12	-	59.51	27.58	4.60	-
AV	2.496G	47.56	54.00	-6.44	32.50	3	Vertical	159	1.12	-	15.06	27.88	4.62	-
PK	2.3868G	57.32	74.00	-16.68	31.99	3	Vertical	159	1.12	-	25.33	27.42	4.57	-
PK	2.4404G	92.41	Inf	-Inf	32.18	3	Vertical	159	1.12	-	60.23	27.58	4.60	-
PK	2.4948G	57.14	74.00	-16.86	32.49	3	Vertical	159	1.12	-	24.65	27.87	4.62	-

BT-LE(1Mbps)

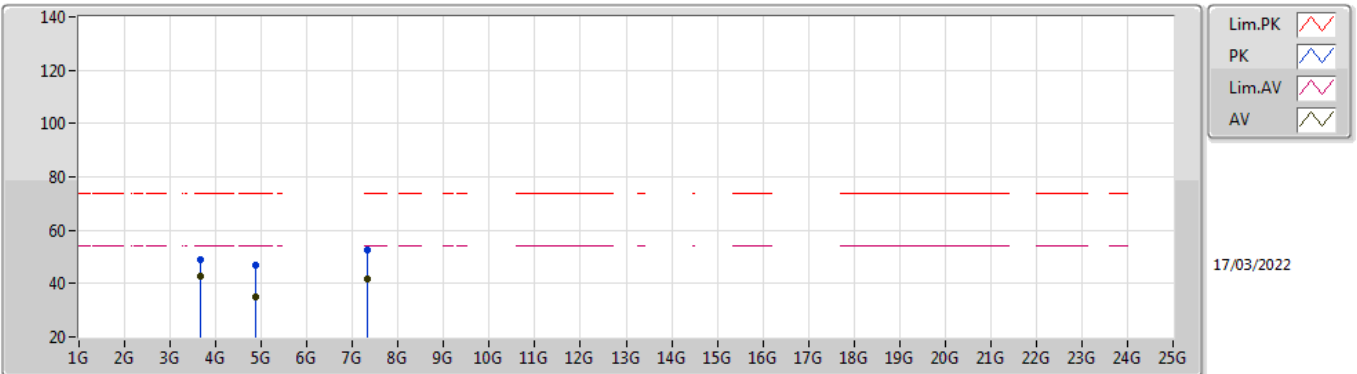
2440MHz_TX



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	2.3844G	46.43	54.00	-7.57	31.98	3	Horizontal	200	1.89	-	14.45	27.41	4.57	-
AV	2.44G	90.32	Inf	-Inf	32.18	3	Horizontal	200	1.89	-	58.14	27.58	4.60	-
AV	2.4896G	47.42	54.00	-6.58	32.46	3	Horizontal	200	1.89	-	14.96	27.84	4.62	-
PK	2.3436G	57.45	74.00	-16.55	31.70	3	Horizontal	200	1.89	-	25.75	27.17	4.53	-
PK	2.4396G	91.03	Inf	-Inf	32.18	3	Horizontal	200	1.89	-	58.85	27.58	4.60	-
PK	2.4988G	58.20	74.00	-15.80	32.51	3	Horizontal	200	1.89	-	25.69	27.89	4.62	-

BT-LE(1Mbps)

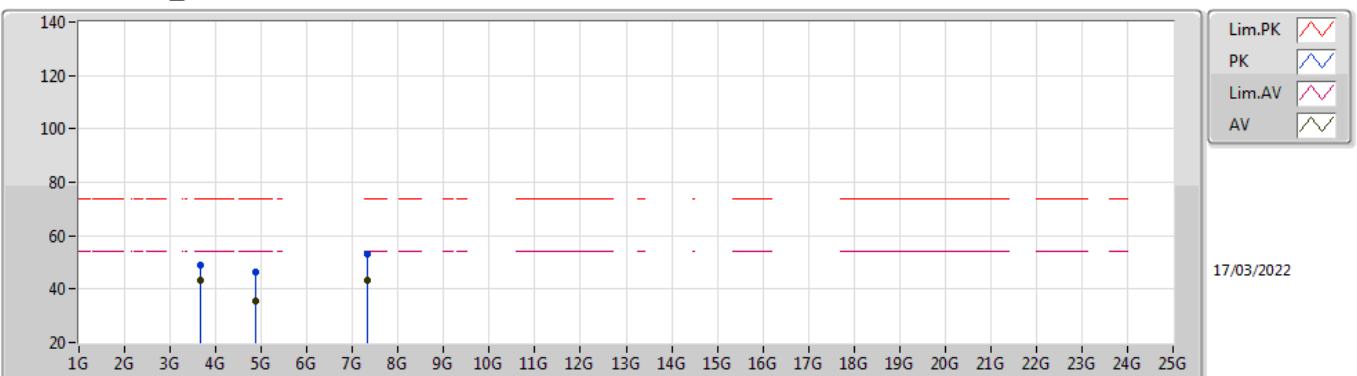
2440MHz_TX



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	3.66002G	42.79	54.00	-11.21	0.21	3	Vertical	278	2.65	-	42.58	29.64	5.48	34.91
AV	4.87944G	35.10	54.00	-18.90	4.65	3	Vertical	25	1.46	-	30.45	32.72	6.72	34.79
AV	7.3194G	41.81	54.00	-12.19	9.73	3	Vertical	177	1.21	-	32.08	36.68	7.87	34.82
PK	3.6596G	48.90	74.00	-25.10	0.21	3	Vertical	278	2.65	-	48.69	29.64	5.48	34.91
PK	4.87954G	46.70	74.00	-27.30	4.65	3	Vertical	25	1.46	-	42.05	32.72	6.72	34.79
PK	7.31943G	52.53	74.00	-21.47	9.73	3	Vertical	177	1.21	-	42.80	36.68	7.87	34.82

BT-LE(1Mbps)

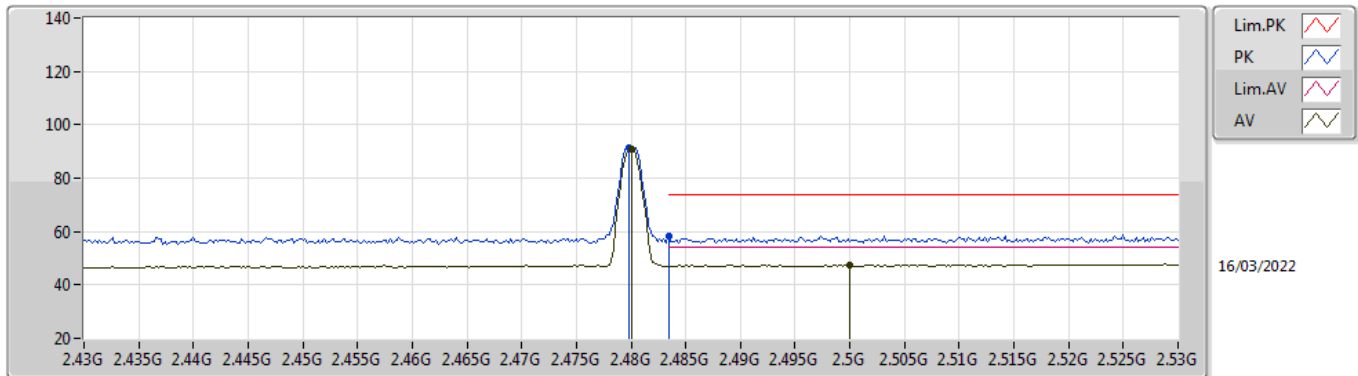
2440MHz_TX



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	3.65996G	43.22	54.00	-10.78	0.21	3	Horizontal	162	1.00	-	43.01	29.64	5.48	34.91
AV	4.87837G	35.26	54.00	-18.74	4.64	3	Horizontal	278	2.48	-	30.62	32.71	6.72	34.79
AV	7.31928G	43.48	54.00	-10.52	9.73	3	Horizontal	168	1.00	-	33.75	36.68	7.87	34.82
PK	3.6595G	49.17	74.00	-24.83	0.21	3	Horizontal	162	1.00	-	48.96	29.64	5.48	34.91
PK	4.88003G	46.48	74.00	-27.52	4.65	3	Horizontal	278	2.48	-	41.83	32.72	6.72	34.79
PK	7.32086G	52.93	74.00	-21.07	9.73	3	Horizontal	168	1.00	-	43.20	36.67	7.88	34.82

BT-LE(1Mbps)

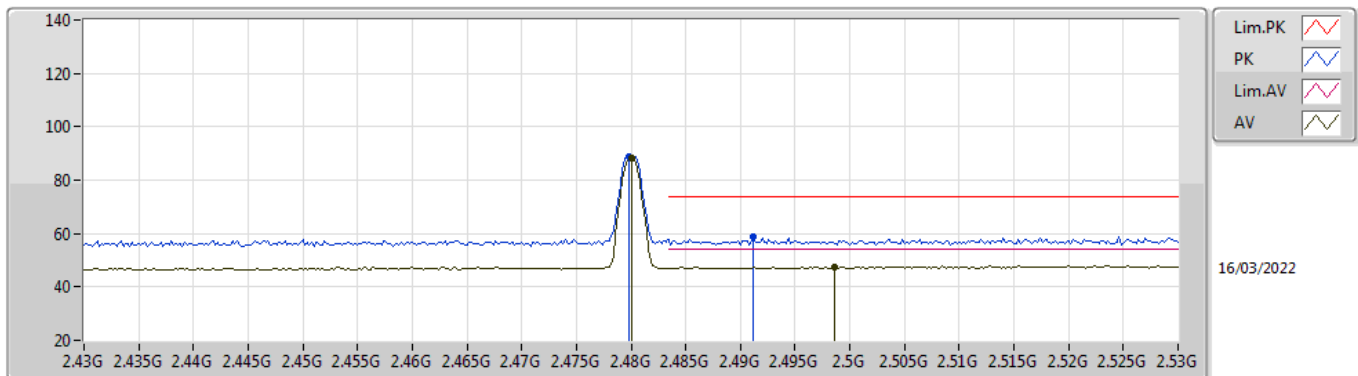
2480MHz_TX



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	90.87	Inf	-Inf	32.39	3	Vertical	158	1.10	-	58.48	27.78	4.61	-
AV	2.5G	47.63	54.00	-6.37	32.52	3	Vertical	158	1.10	-	15.11	27.90	4.62	-
PK	2.4798G	91.62	Inf	-Inf	32.39	3	Vertical	158	1.10	-	59.23	27.78	4.61	-
PK	2.4835G	58.51	74.00	-15.49	32.41	3	Vertical	158	1.10	-	26.10	27.80	4.61	-

BT-LE(1Mbps)

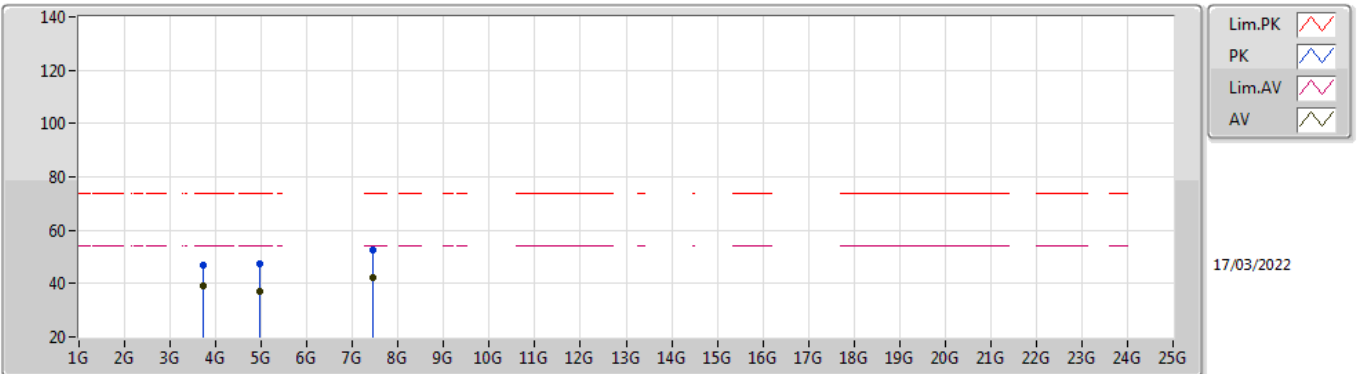
2480MHz_TX



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	88.26	Inf	-Inf	32.39	3	Horizontal	154	2.70	-	55.87	27.78	4.61	-
AV	2.4986G	47.48	54.00	-6.52	32.51	3	Horizontal	154	2.70	-	14.97	27.89	4.62	-
PK	2.4798G	89.02	Inf	-Inf	32.39	3	Horizontal	154	2.70	-	56.63	27.78	4.61	-
PK	2.4912G	58.61	74.00	-15.39	32.47	3	Horizontal	154	2.70	-	26.14	27.85	4.62	-

BT-LE(1Mbps)

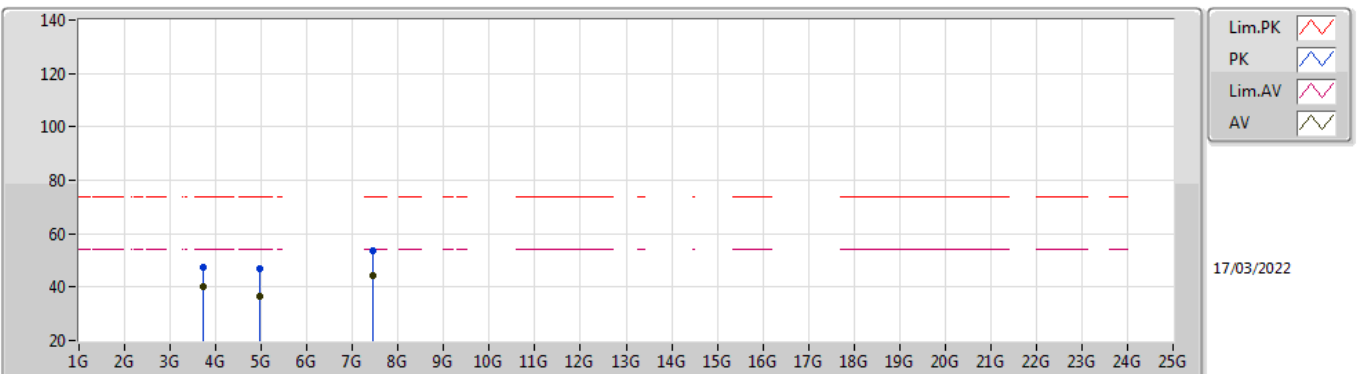
2480MHz_TX



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	3.71997G	39.15	54.00	-14.85	0.69	3	Vertical	234	1.17	-	38.46	29.92	5.69	34.92
AV	4.96023G	37.03	54.00	-16.97	5.03	3	Vertical	102	1.06	-	32.00	33.02	6.78	34.77
AV	7.43937G	42.13	54.00	-11.87	9.51	3	Vertical	178	1.50	-	32.62	36.30	8.05	34.84
PK	3.71995G	46.77	74.00	-27.23	0.69	3	Vertical	234	1.17	-	46.08	29.92	5.69	34.92
PK	4.96071G	47.19	74.00	-26.81	5.03	3	Vertical	102	1.06	-	42.16	33.02	6.78	34.77
PK	7.43947G	52.67	74.00	-21.33	9.51	3	Vertical	178	1.50	-	43.16	36.30	8.05	34.84

BT-LE(1Mbps)

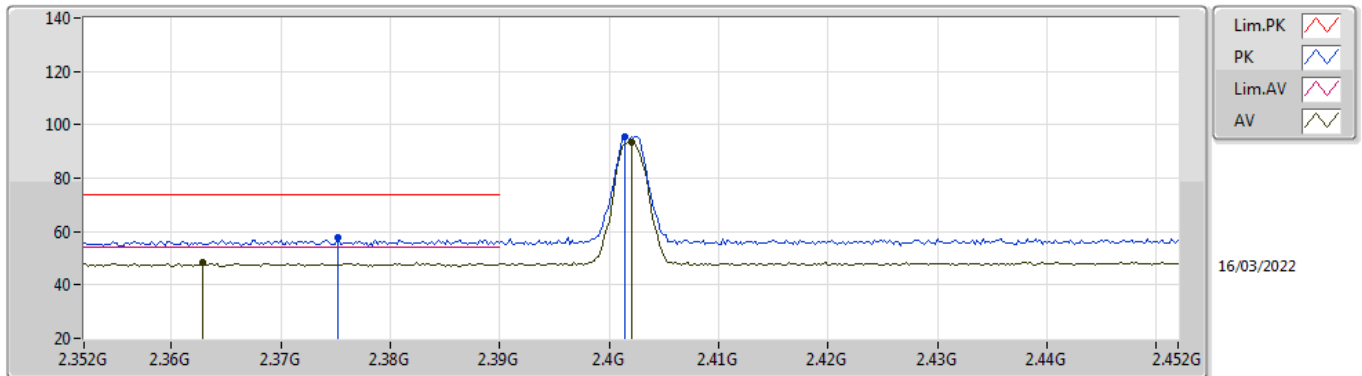
2480MHz_TX



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	3.72004G	40.36	54.00	-13.64	0.69	3	Horizontal	165	1.14	-	39.67	29.92	5.69	34.92
AV	4.96024G	36.35	54.00	-17.65	5.03	3	Horizontal	181	1.08	-	31.32	33.02	6.78	34.77
AV	7.43927G	44.41	54.00	-9.59	9.51	3	Horizontal	153	1.09	-	34.90	36.30	8.05	34.84
PK	3.72038G	47.25	74.00	-26.75	0.69	3	Horizontal	165	1.14	-	46.56	29.92	5.69	34.92
PK	4.95986G	47.02	74.00	-26.98	5.03	3	Horizontal	181	1.08	-	41.99	33.02	6.78	34.77
PK	7.43924G	53.56	74.00	-20.44	9.51	3	Horizontal	153	1.09	-	44.05	36.30	8.05	34.84

BT-LE(2Mbps)

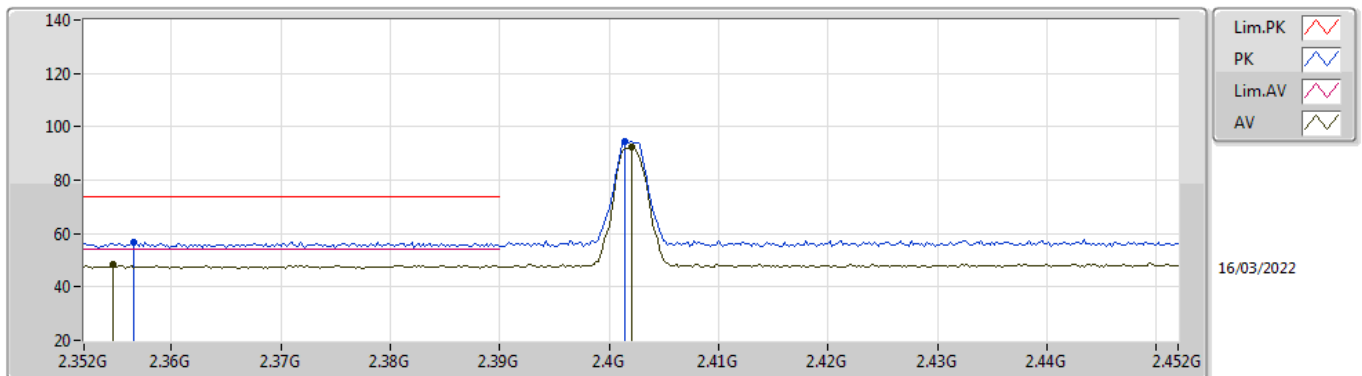
2402MHz_TX



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	2.3628G	48.21	54.00	-5.79	31.82	3	Vertical	146	1.84	-	16.39	27.28	4.54	-
AV	2.402G	93.29	Inf	-Inf	32.08	3	Vertical	146	1.84	-	61.21	27.50	4.58	-
PK	2.3752G	57.61	74.00	-16.39	31.91	3	Vertical	146	1.84	-	25.70	27.35	4.56	-
PK	2.4014G	95.40	Inf	-Inf	32.08	3	Vertical	146	1.84	-	63.32	27.50	4.58	-

BT-LE(2Mbps)

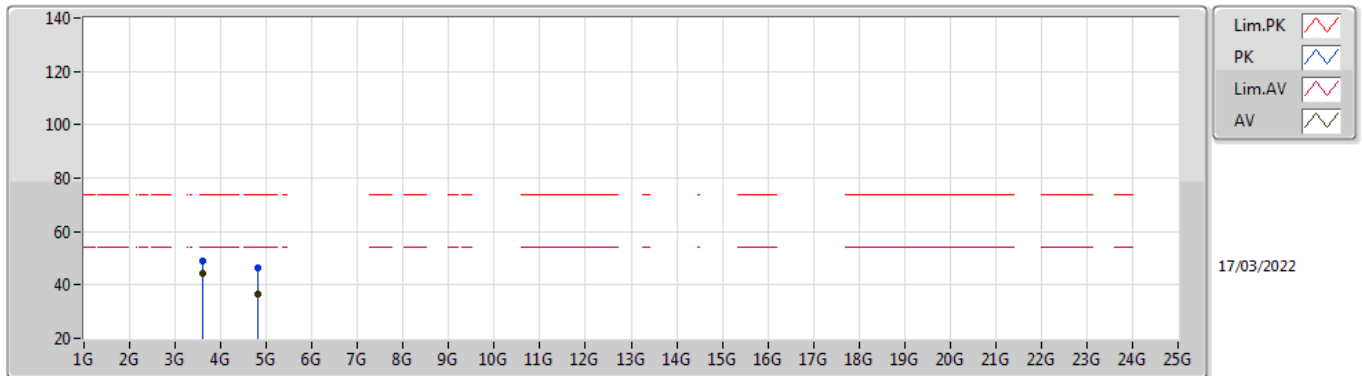
2402MHz_TX



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	2.3546G	48.24	54.00	-5.76	31.77	3	Horizontal	204	1.70	-	16.47	27.23	4.54	-
AV	2.402G	92.17	Inf	-Inf	32.08	3	Horizontal	204	1.70	-	60.09	27.50	4.58	-
PK	2.3566G	56.74	74.00	-17.26	31.78	3	Horizontal	204	1.70	-	24.96	27.24	4.54	-
PK	2.4014G	94.28	Inf	-Inf	32.08	3	Horizontal	204	1.70	-	62.20	27.50	4.58	-

BT-LE(2Mbps)

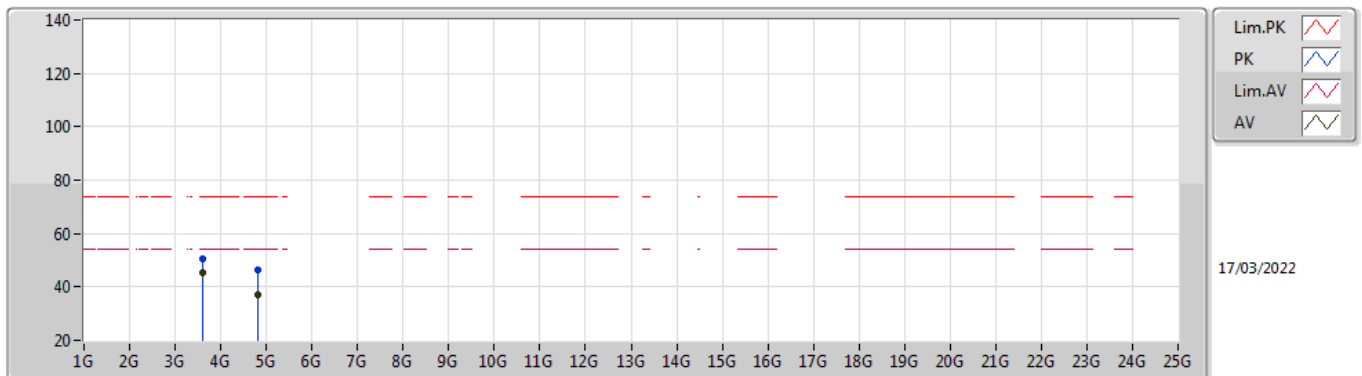
2402MHz_TX



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	3.60211G	44.18	54.00	-9.82	-0.03	3	Vertical	234	1.18	-	44.21	29.60	5.28	34.91
AV	4.80164G	36.65	54.00	-17.35	4.16	3	Vertical	157	2.10	-	32.49	32.31	6.66	34.81
PK	3.60229G	49.22	74.00	-24.78	-0.03	3	Vertical	234	1.18	-	49.25	29.60	5.28	34.91
PK	4.8017G	46.57	74.00	-27.43	4.16	3	Vertical	157	2.10	-	42.41	32.31	6.66	34.81

BT-LE(2Mbps)

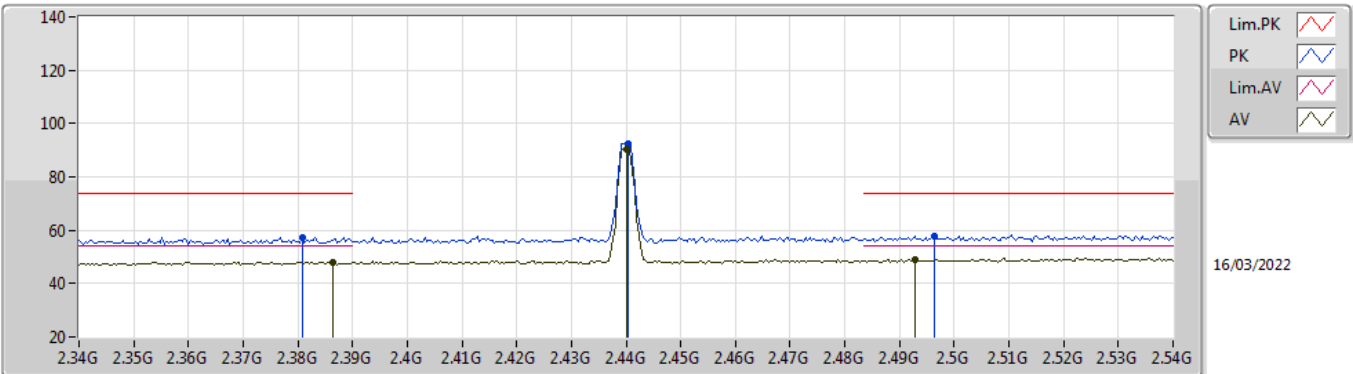
2402MHz_TX



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	3.60223G	45.57	54.00	-8.43	-0.03	3	Horizontal	116	1.11	-	45.60	29.60	5.28	34.91
AV	4.80173G	36.86	54.00	-17.14	4.16	3	Horizontal	95	1.50	-	32.70	32.31	6.66	34.81
PK	3.60215G	50.33	74.00	-23.67	-0.03	3	Horizontal	116	1.11	-	50.36	29.60	5.28	34.91
PK	4.80409G	46.62	74.00	-27.38	4.17	3	Horizontal	95	1.50	-	42.45	32.32	6.66	34.81

BT-LE(2Mbps)

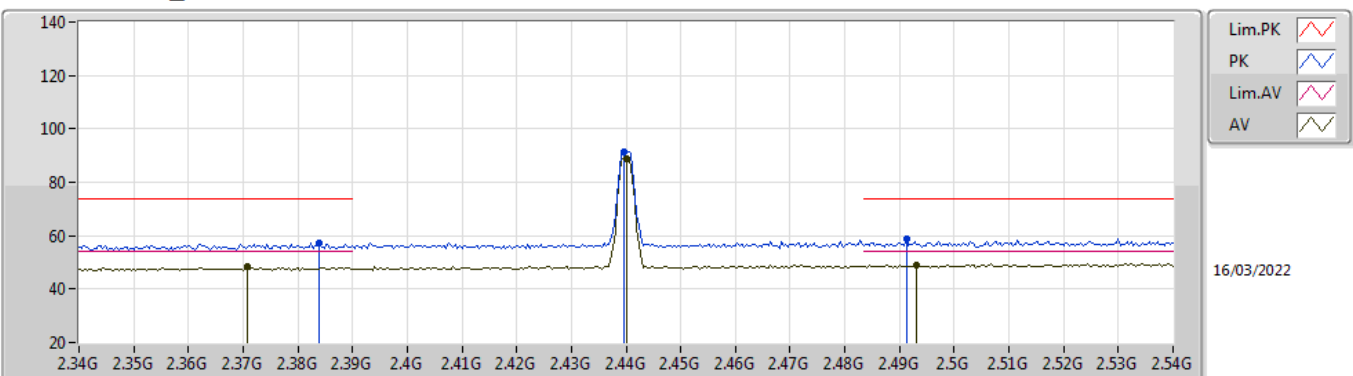
2440MHz_TX



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	2.3864G	48.09	54.00	-5.91	31.99	3	Vertical	156	1.12	-	16.10	27.42	4.57	-
AV	2.44G	90.44	Inf	-Inf	32.18	3	Vertical	156	1.12	-	58.26	27.58	4.60	-
AV	2.4928G	49.12	54.00	-4.88	32.48	3	Vertical	156	1.12	-	16.64	27.86	4.62	-
PK	2.3808G	57.47	74.00	-16.53	31.94	3	Vertical	156	1.12	-	25.53	27.38	4.56	-
PK	2.4404G	92.54	Inf	-Inf	32.18	3	Vertical	156	1.12	-	60.36	27.58	4.60	-
PK	2.4964G	57.93	74.00	-16.07	32.50	3	Vertical	156	1.12	-	25.43	27.88	4.62	-

BT-LE(2Mbps)

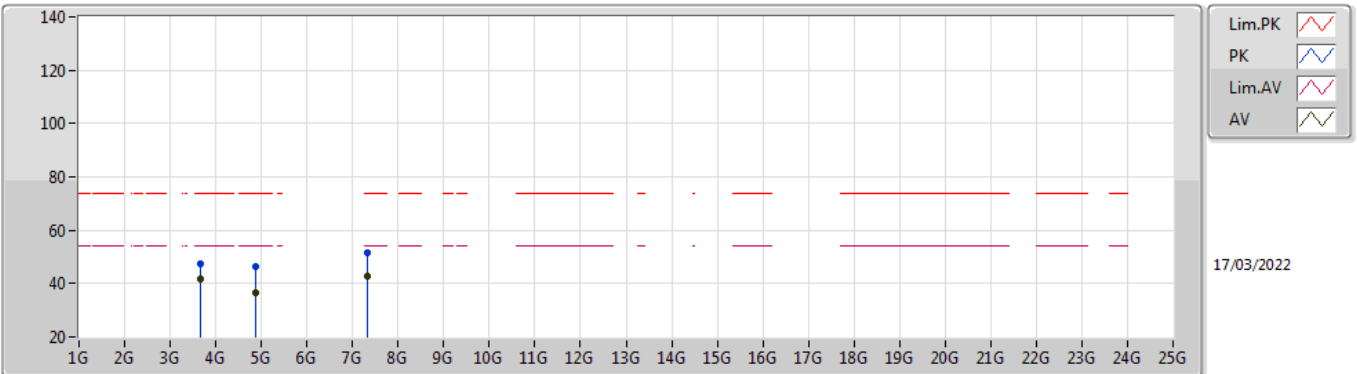
2440MHz_TX



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	2.3708G	48.19	54.00	-5.81	31.87	3	Horizontal	200	1.90	-	16.32	27.32	4.55	-
AV	2.44G	89.04	Inf	-Inf	32.18	3	Horizontal	200	1.90	-	56.86	27.58	4.60	-
AV	2.4932G	48.90	54.00	-5.10	32.48	3	Horizontal	200	1.90	-	16.42	27.86	4.62	-
PK	2.384G	57.35	74.00	-16.65	31.96	3	Horizontal	200	1.90	-	25.39	27.40	4.56	-
PK	2.4396G	91.20	Inf	-Inf	32.18	3	Horizontal	200	1.90	-	59.02	27.58	4.60	-
PK	2.4912G	58.58	74.00	-15.42	32.47	3	Horizontal	200	1.90	-	26.11	27.85	4.62	-

BT-LE(2Mbps)

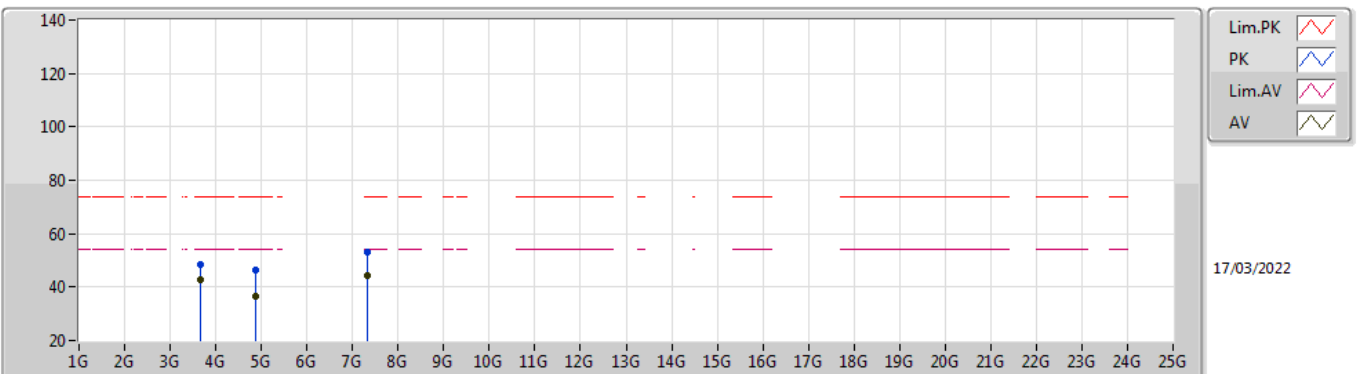
2440MHz_TX



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	3.65916G	41.70	54.00	-12.30	0.21	3	Vertical	234	1.35	-	41.49	29.64	5.48	34.91
AV	4.87949G	36.59	54.00	-17.41	4.65	3	Vertical	128	1.50	-	31.94	32.72	6.72	34.79
AV	7.31842G	42.70	54.00	-11.30	9.74	3	Vertical	178	1.48	-	32.96	36.69	7.87	34.82
PK	3.65919G	47.55	74.00	-26.45	0.21	3	Vertical	234	1.35	-	47.34	29.64	5.48	34.91
PK	4.87911G	46.28	74.00	-27.72	4.65	3	Vertical	128	1.50	-	41.63	32.72	6.72	34.79
PK	7.31872G	51.49	74.00	-22.51	9.74	3	Vertical	178	1.48	-	41.75	36.69	7.87	34.82

BT-LE(2Mbps)

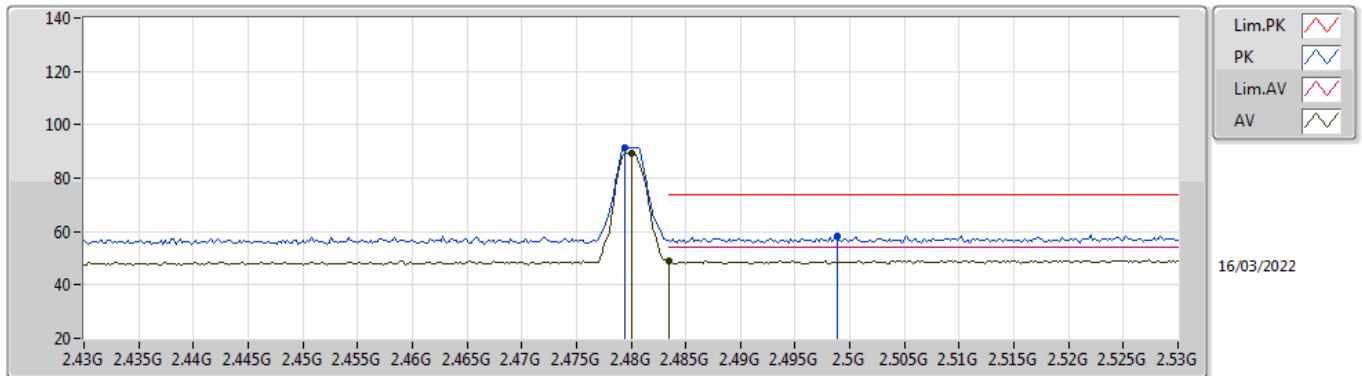
2440MHz_TX



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	3.65932G	42.56	54.00	-11.44	0.21	3	Horizontal	162	1.00	-	42.35	29.64	5.48	34.91
AV	4.87773G	36.74	54.00	-17.26	4.64	3	Horizontal	222	1.50	-	32.10	32.71	6.72	34.79
AV	7.31839G	44.27	54.00	-9.73	9.74	3	Horizontal	165	1.00	-	34.53	36.69	7.87	34.82
PK	3.65914G	48.35	74.00	-25.65	0.21	3	Horizontal	162	1.00	-	48.14	29.64	5.48	34.91
PK	4.87758G	46.28	74.00	-27.72	4.64	3	Horizontal	222	1.50	-	41.64	32.71	6.72	34.79
PK	7.31838G	52.94	74.00	-21.06	9.74	3	Horizontal	165	1.00	-	43.20	36.69	7.87	34.82

BT-LE(2Mbps)

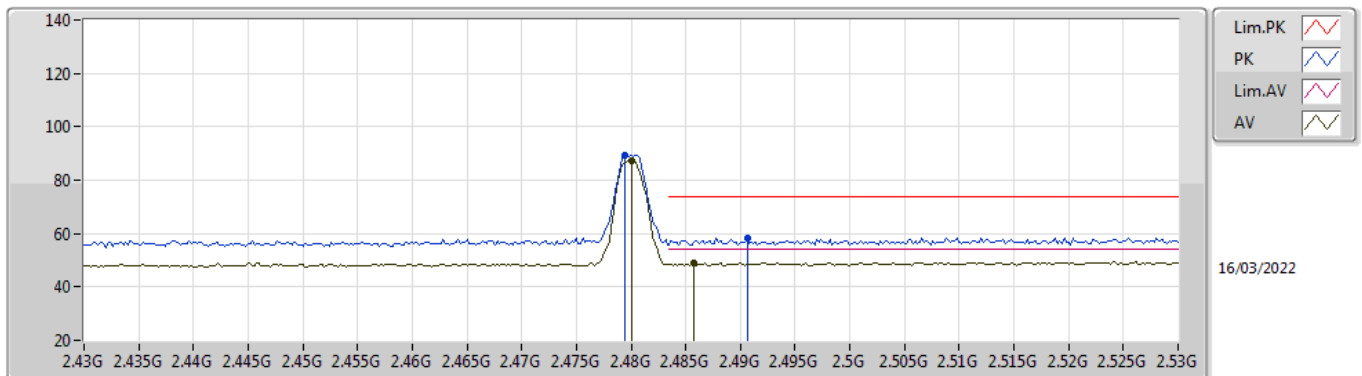
2480MHz_TX



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	89.53	Inf	-Inf	32.39	3	Vertical	158	1.10	-	57.14	27.78	4.61	-
AV	2.4835G	49.07	54.00	-4.93	32.41	3	Vertical	158	1.10	-	16.66	27.80	4.61	-
PK	2.4794G	91.63	Inf	-Inf	32.39	3	Vertical	158	1.10	-	59.24	27.78	4.61	-
PK	2.4988G	58.03	74.00	-15.97	32.51	3	Vertical	158	1.10	-	25.52	27.89	4.62	-

BT-LE(2Mbps)

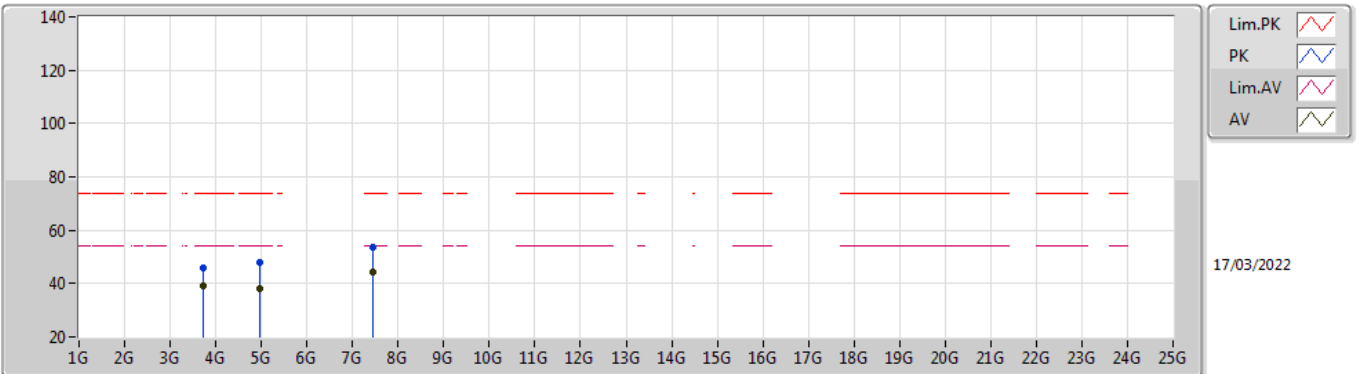
2480MHz_TX



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	87.09	Inf	-Inf	32.39	3	Horizontal	154	2.69	-	54.70	27.78	4.61	-
AV	2.4858G	48.99	54.00	-5.01	32.42	3	Horizontal	154	2.69	-	16.57	27.81	4.61	-
PK	2.4794G	89.22	Inf	-Inf	32.39	3	Horizontal	154	2.69	-	56.83	27.78	4.61	-
PK	2.4906G	58.28	74.00	-15.72	32.46	3	Horizontal	154	2.69	-	25.82	27.84	4.62	-

BT-LE(2Mbps)

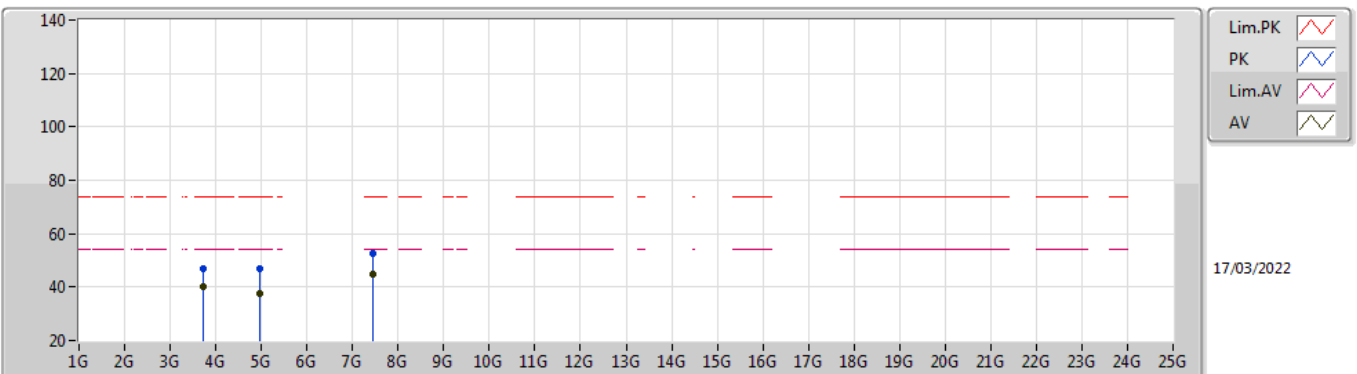
2480MHz_TX



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	3.71927G	39.14	54.00	-14.86	0.69	3	Vertical	232	1.17	-	38.45	29.92	5.69	34.92
AV	4.95904G	38.33	54.00	-15.67	5.03	3	Vertical	54	1.12	-	33.30	33.02	6.78	34.77
AV	7.44135G	44.30	54.00	-9.70	9.52	3	Vertical	180	1.17	-	34.78	36.30	8.06	34.84
PK	3.71931G	46.09	74.00	-27.91	0.69	3	Vertical	232	1.17	-	45.40	29.92	5.69	34.92
PK	4.96084G	48.10	74.00	-25.90	5.03	3	Vertical	54	1.12	-	43.07	33.02	6.78	34.77
PK	7.44165G	53.43	74.00	-20.57	9.52	3	Vertical	180	1.17	-	43.91	36.30	8.06	34.84

BT-LE(2Mbps)

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	3.71927G	40.00	54.00	-14.00	0.69	3	Horizontal	161	1.12	-	39.31	29.92	5.69	34.92
AV	4.95888G	37.53	54.00	-16.47	5.03	3	Horizontal	186	1.38	-	32.50	33.02	6.78	34.77
AV	7.43846G	44.77	54.00	-9.23	9.51	3	Horizontal	152	1.29	-	35.26	36.30	8.05	34.84
PK	3.72011G	46.92	74.00	-27.08	0.69	3	Horizontal	161	1.12	-	46.23	29.92	5.69	34.92
PK	4.96037G	46.97	74.00	-27.03	5.03	3	Horizontal	186	1.38	-	41.94	33.02	6.78	34.77
PK	7.43853G	52.79	74.00	-21.21	9.51	3	Horizontal	152	1.29	-	43.28	36.30	8.05	34.84