

FCC Radio Test Report

FCC ID : 2ABXLT1601N
Equipment : Wireless Transceiver
Brand Name : Tile
Model Name : T1601N
Applicant : Tile, Inc.
1900 S NORFOLK ST. SUITE 310 SAN MATEO CA 94403
Manufacturer : Tile, Inc.
1900 S NORFOLK ST. SUITE 310 SAN MATEO CA 94403
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 23, 2021, and testing was started from Jul. 02, 2021 and completed on Jul. 06, 2021. 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: Allen Lin

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

[illegible]

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	Not Required	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: Ben Tseng

Report Producer: Amber Chiu

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

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	PCB	N/A	1.41

Note 1: The EUT has one antenna.

For BT function:

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

Ant. 1 can be used as transmitting/receiving antenna.

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)	0.63	2.01	394.063u	3k

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	TH01-HY	Vivi Jiang	20.1~26.9°C / 50~60%	06/Jul/2021
Radiated	03CH03-HY	Billy Wang	24.5~25.5°C / 58~60%	02/Jul/2021
☐ 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.				

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	N/A
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Note: The EUT transmits RF Signal continuously by itself.

Mode	Power Setting
BT-LE(1Mbps)	-
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

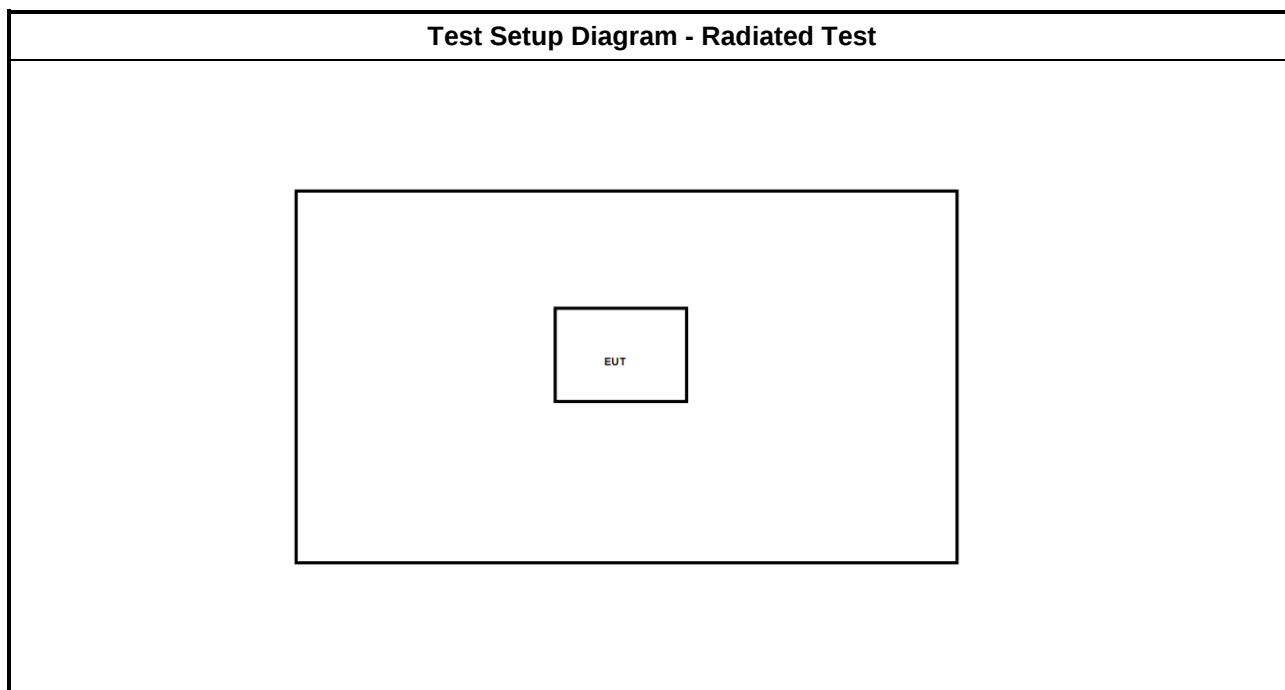
Accessories				
Battery	Brand Name	ABLE NEW ENERGY Co., Ltd & EVE Energy Co. Ltd.	Model Name	CP114951
	Power Rating	3.1 Vdc, 380 mAh	Type	Thin cell Lithium Manganese Dioxide batteries

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	DC Power Supply	GW	GPS-3030DD	-	-

2.5 Test Setup Diagram



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.

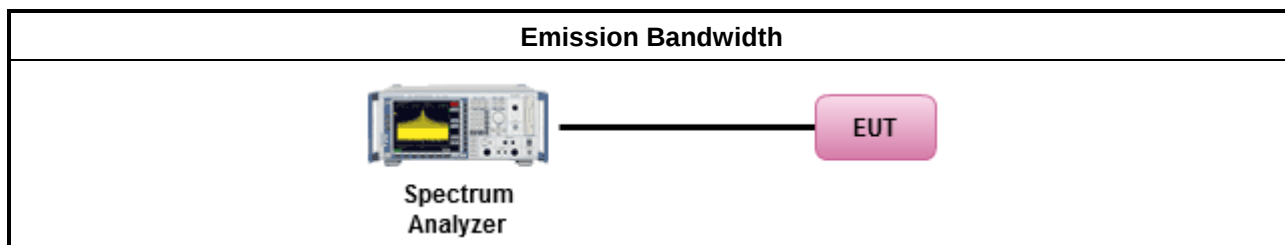
3.1.2 Measuring Instruments

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.	

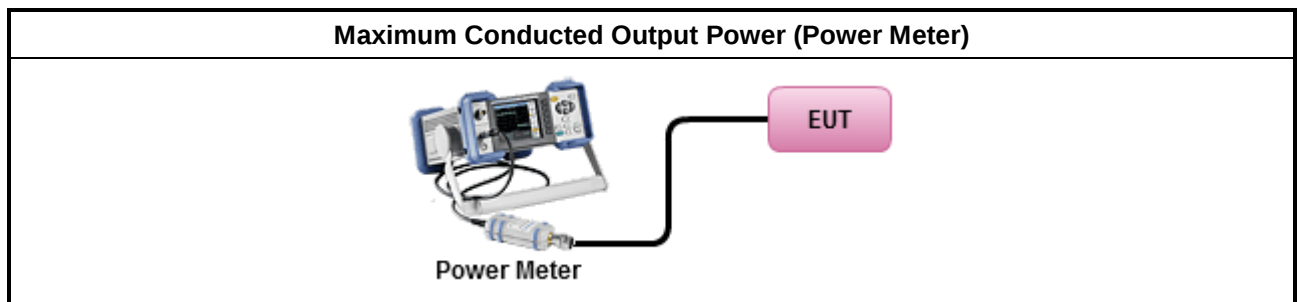
3.2.2 Measuring Instruments

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

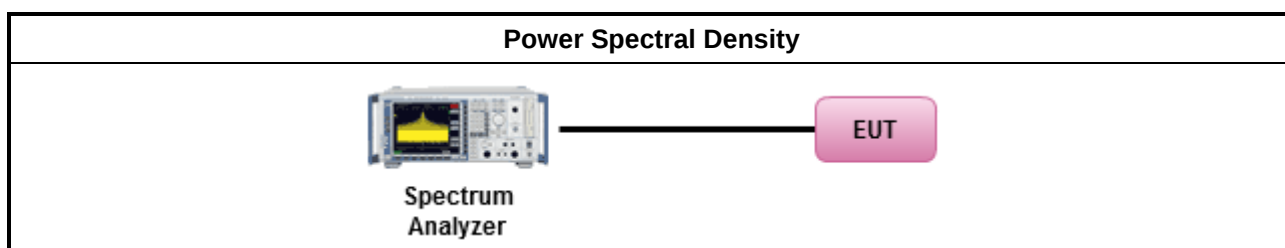
3.3.2 Measuring Instruments

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.	

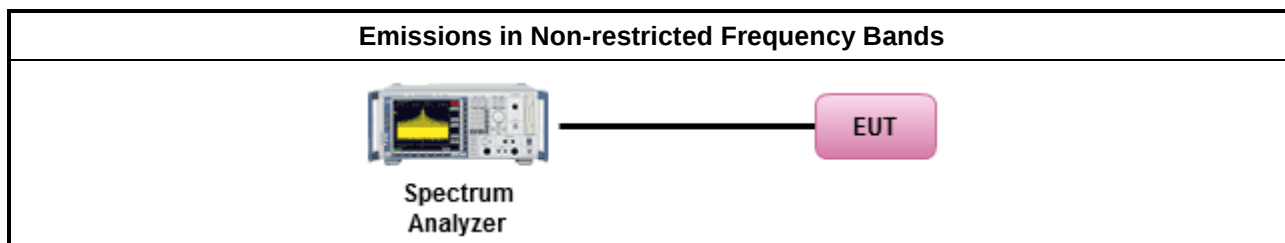
3.4.2 Measuring Instruments

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

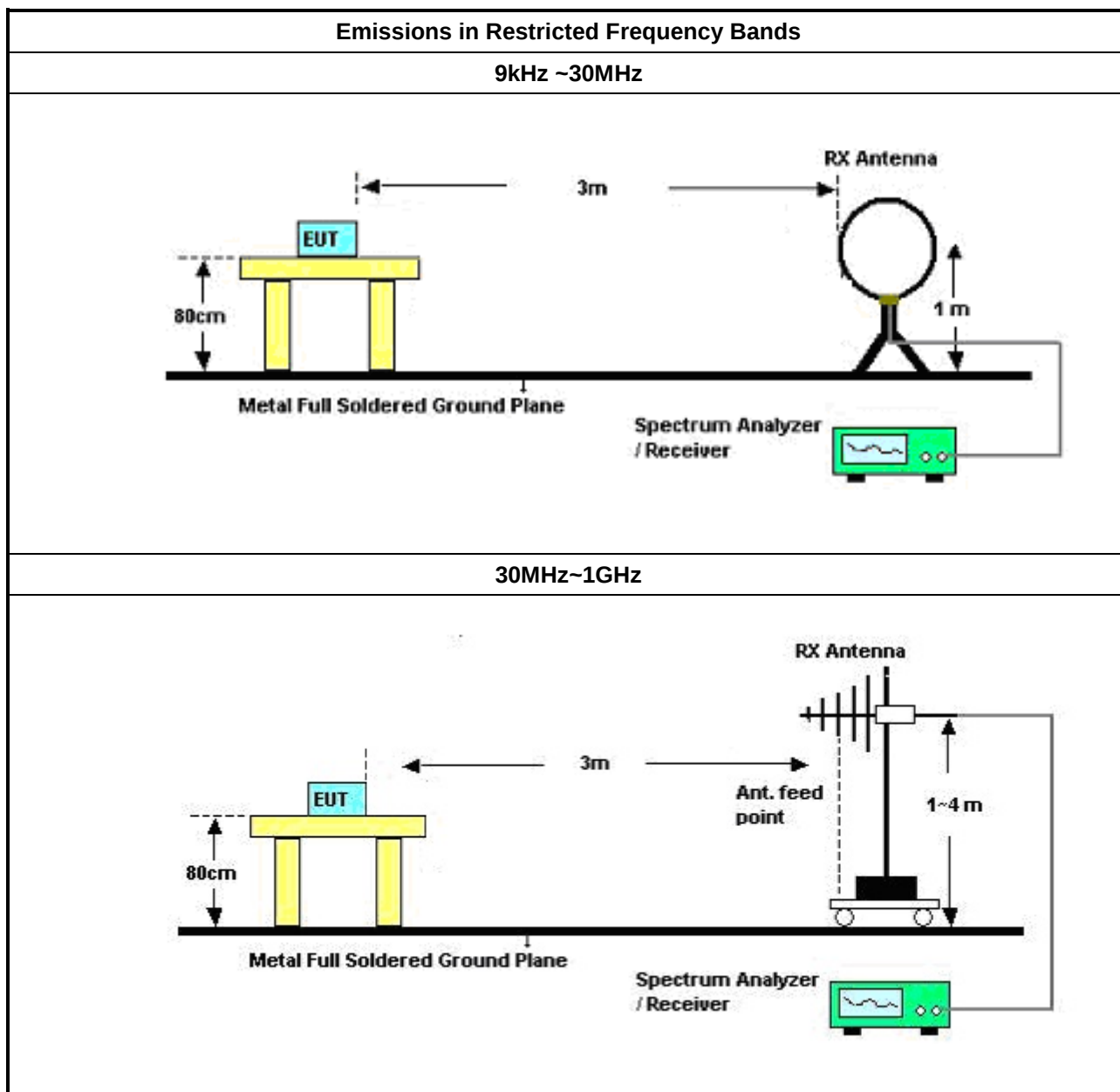
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted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

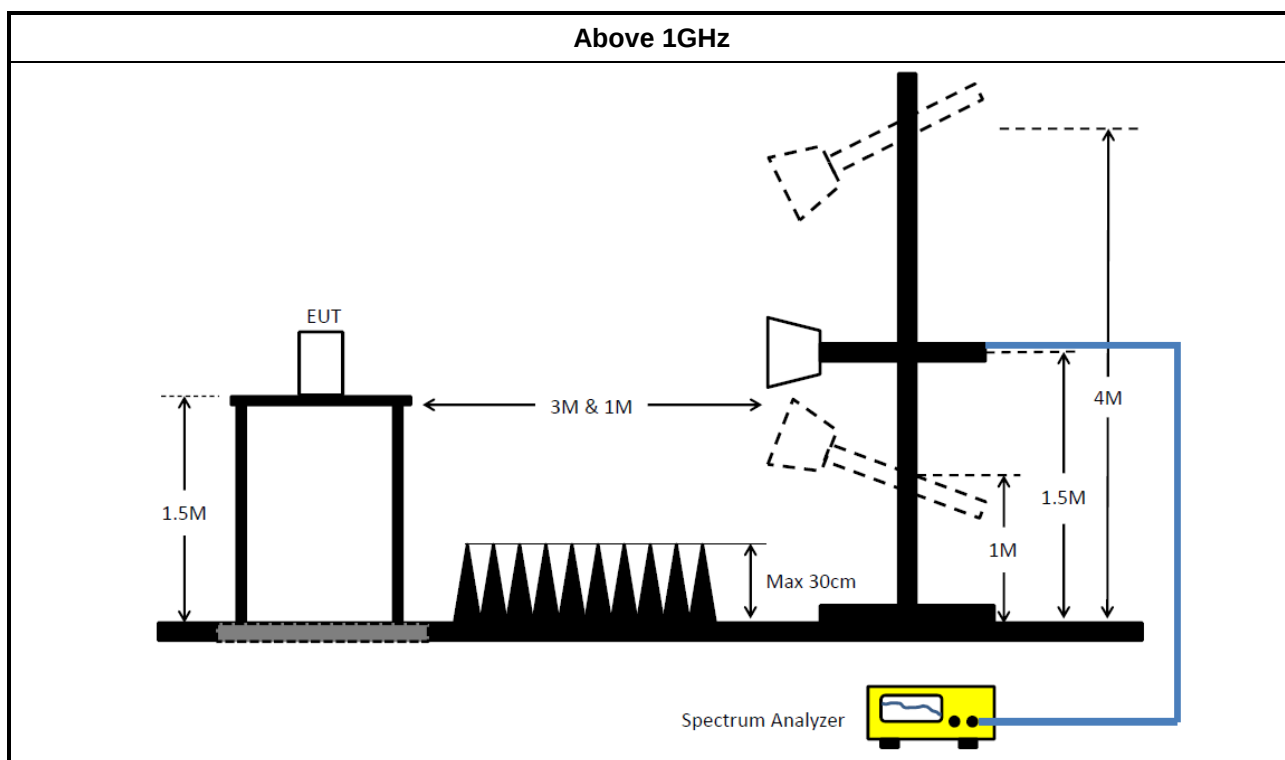
3.5.4 Measurement Results Calculation

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	30/Mar/2021	29/Mar/2022
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	23/Feb/2021	22/Feb/2022
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	23/Feb/2021	22/Feb/2022

**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	03CH03-HY	30MHz~1GHz 3m	06/Aug/2020	05/Aug/2021
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	04/Aug/2020	03/Aug/2021
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	19/Aug/2020	18/Aug/2021
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	13/Apr/2021	12/Apr/2022
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz~26.5GHz	06/Oct/2020	05/Oct/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz~18GHz	24/Mar/2021	23/Mar/2022
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	16/Jun/2021	15/Jun/2022
RF Cable-R03m	Jye Bao	RG142	MY37335/4+CB 021-1+CB021-2	30MHz~1GHz	17/Mar/2021	16/Mar/2022
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	SN MY38596/4+SN 804300/4	1GHz~40GHz	04/Aug/2020	03/Aug/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	09/Mar/2021	08/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022



Summary

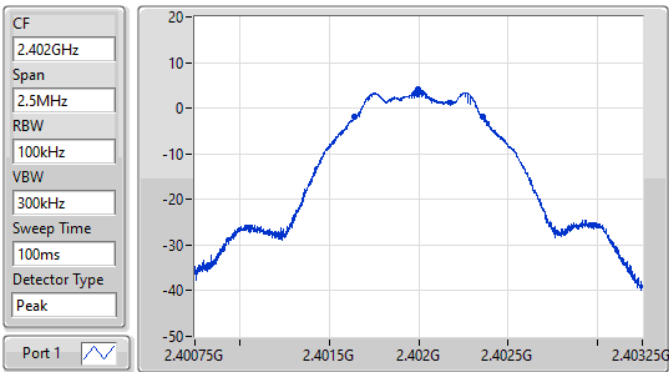
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	718.75k	1.046M	1M05F1D	702.5k	1.043M

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	1.046M
2440MHz	Pass	500k	702.5k	1.043M
2480MHz	Pass	500k	706.25k	1.046M

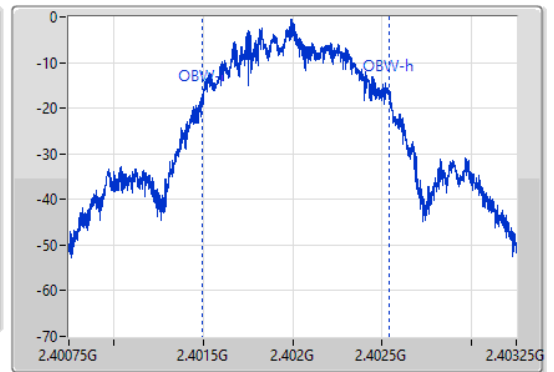
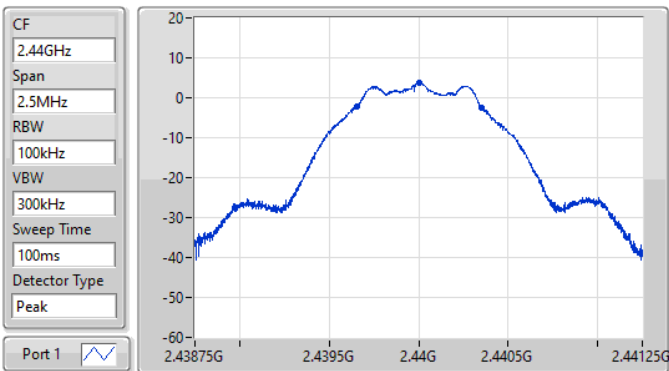
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-LE(1Mbps)
2402MHz


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
718.75k	2.401643G	2.402361G	1.046M	2.401493G	2.402538G	500k	1

EBW-DTS

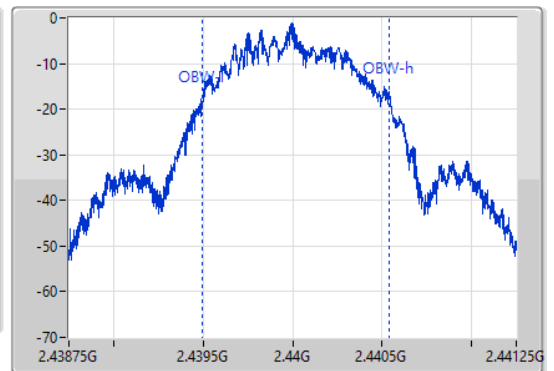
06/07/2021


BT-LE(1Mbps)
2440MHz


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
702.5k	2.439653G	2.440355G	1.043M	2.439494G	2.440537G	500k	1

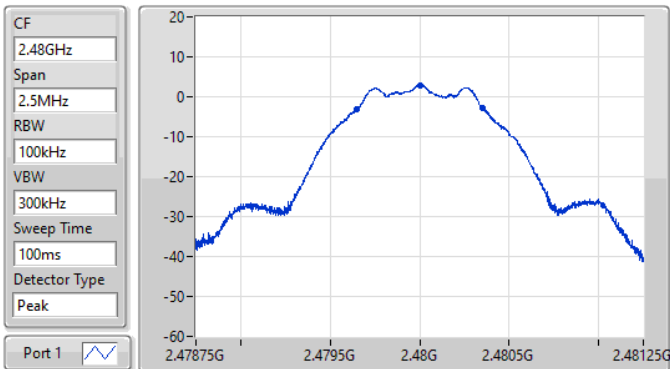
EBW-DTS

06/07/2021



BT-LE(1Mbps)

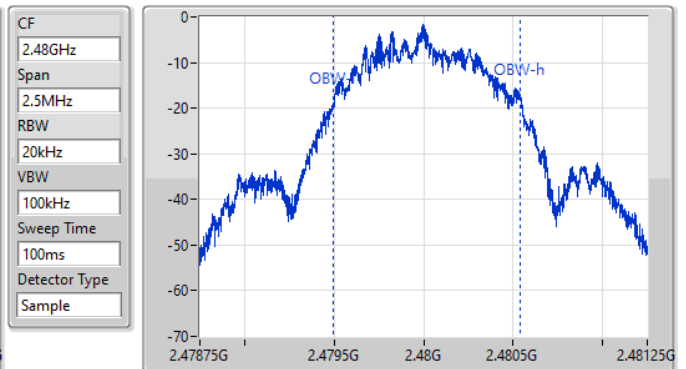
2480MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
706.25k	2.479649G	2.480355G	1.046M	2.479493G	2.480538G	500k	1

EBW-DTS

06/07/2021





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	3.65	0.00232



Average Power-DTS

Appendix B

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.41	3.65	30.00
2440MHz	Pass	1.41	3.23	30.00
2480MHz	Pass	1.41	2.52	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-10.77

RBW = 3kHz;



Result

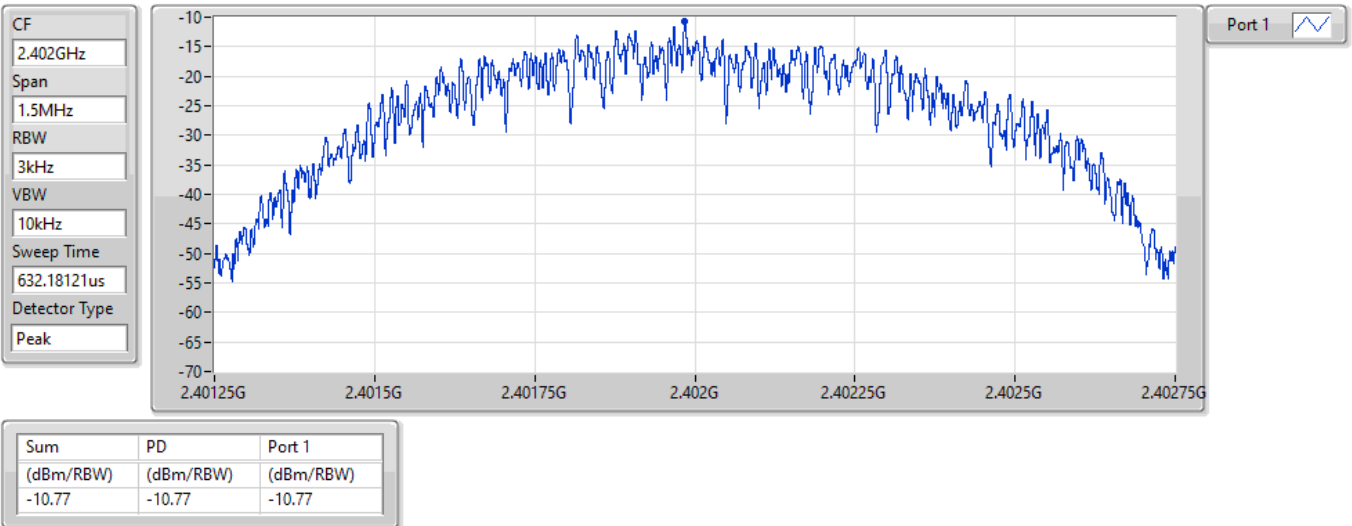
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	1.41	-10.77	8.00
2440MHz	Pass	1.41	-11.52	8.00
2480MHz	Pass	1.41	-12.15	8.00

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

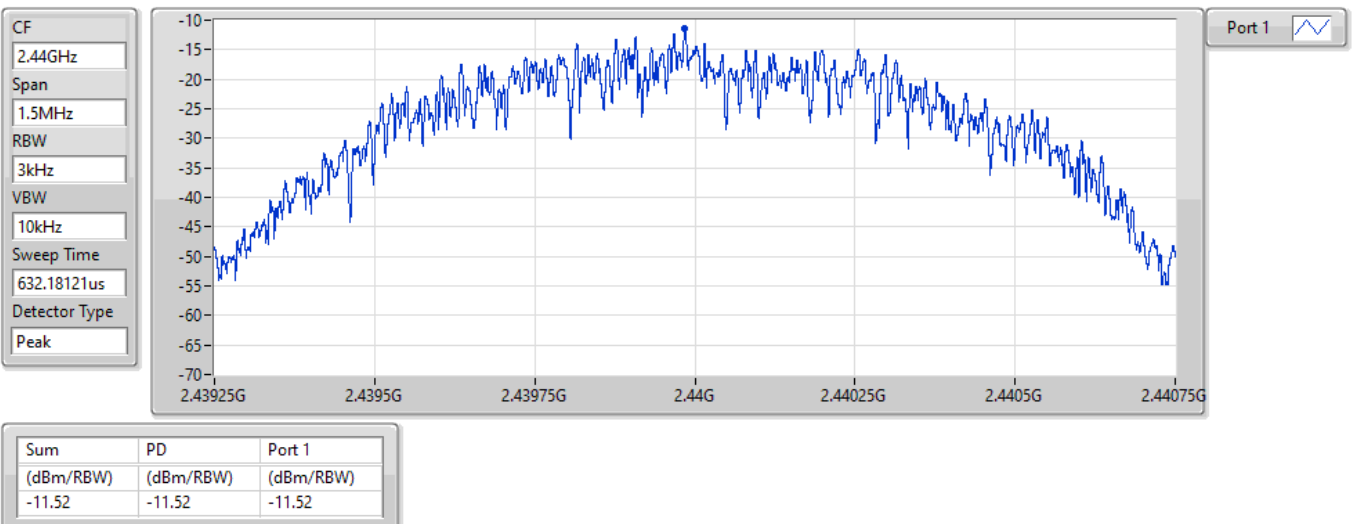
06/07/2021



BT-LE(1Mbps)

2440MHz

06/07/2021

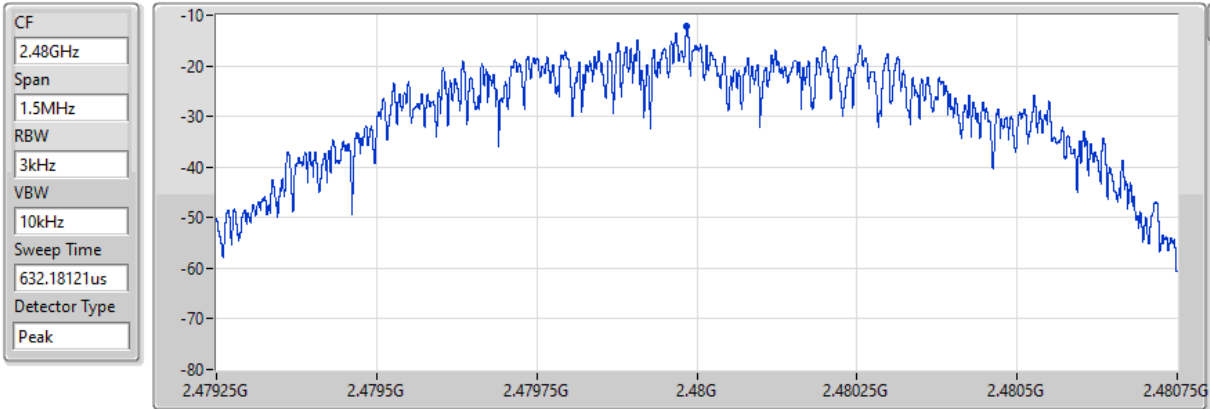


BT-LE(1Mbps)

2480MHz

06/07/2021

Port 1



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.15	-12.15	-12.15



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	2.40196G	3.24	-26.76	2.18877G	-54.56	2.4G	-47.06	2.4G	-47.82	2.48524G	-53.77	2.416763G	-41.50	1



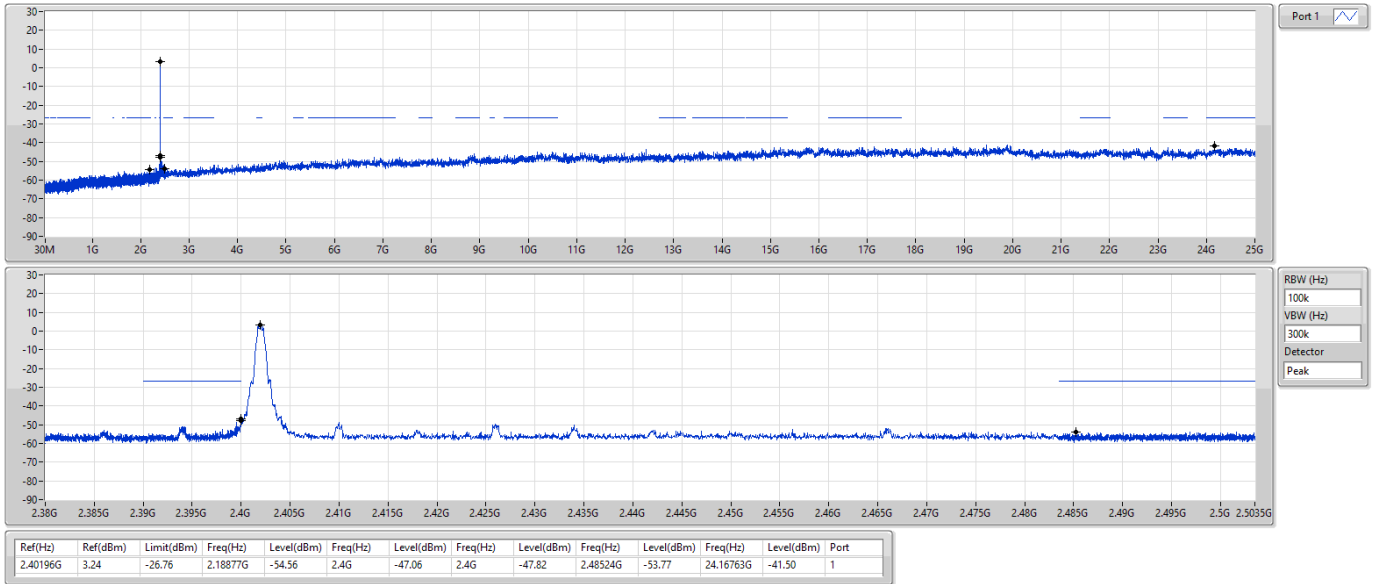
Result

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	2.40196G	3.24	-26.76	2.18877G	-54.56	2.4G	-47.06	2.4G	-47.82	2.48524G	-53.77	24.16763G	-41.50	1
2440MHz	Pass	2.40196G	3.24	-26.76	2.30421G	-55.22	2.39977G	-52.21	2.4G	-54.47	2.49086G	-52.45	16.23761G	-42.04	1
2480MHz	Pass	2.40196G	3.24	-26.76	1.94496G	-55.42	2.3957G	-54.77	2.4835G	-54.80	2.488G	-49.69	16.47945G	-42.22	1

BT-LE(1Mbps)

CSEndB-DTS

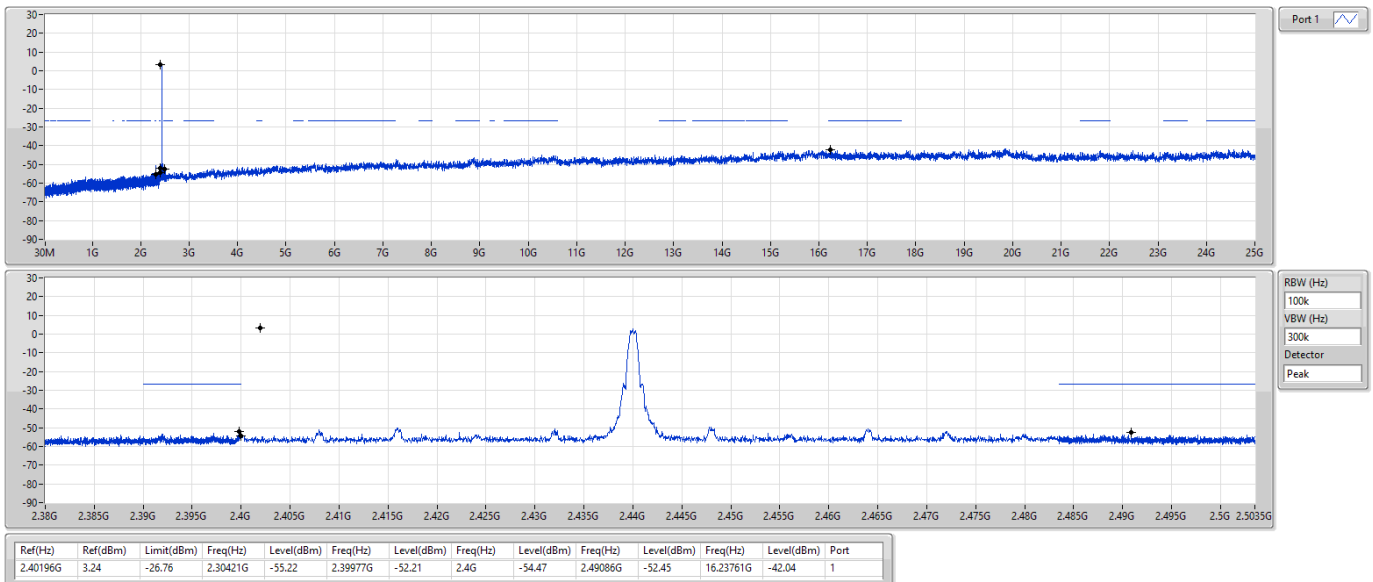
2402MHz



BT-LE(1Mbps)

CSEndB-DTS

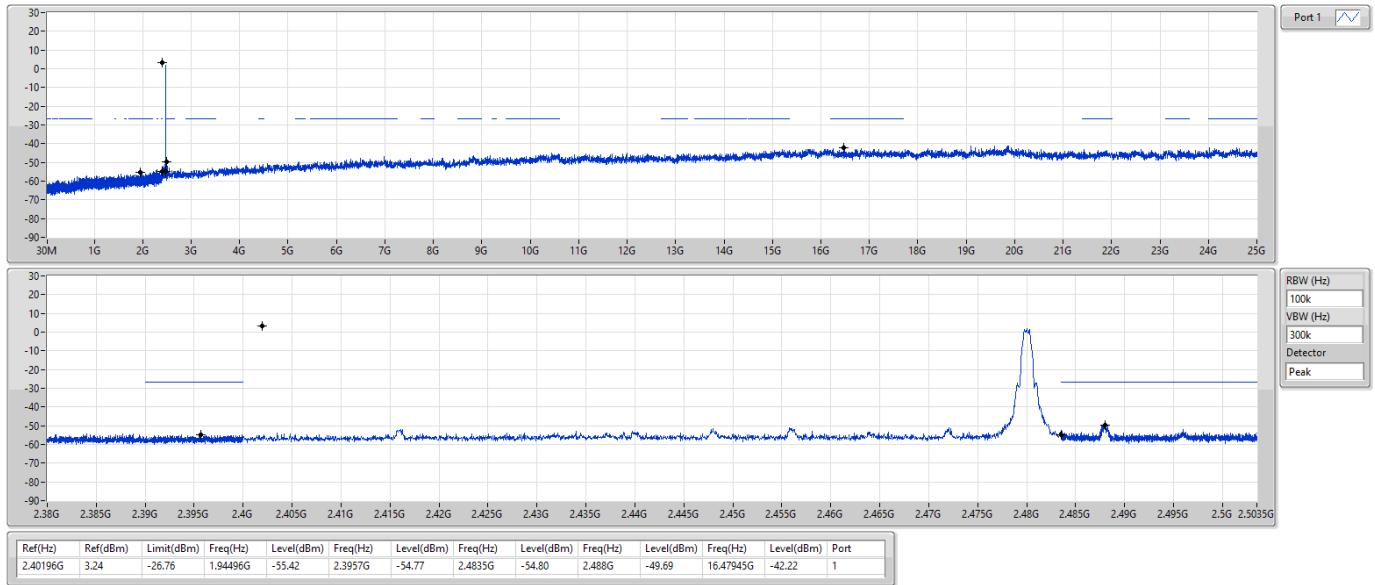
2440MHz



BT-LE(1Mbps)

CSEndB-DTS

2480MHz





Summary

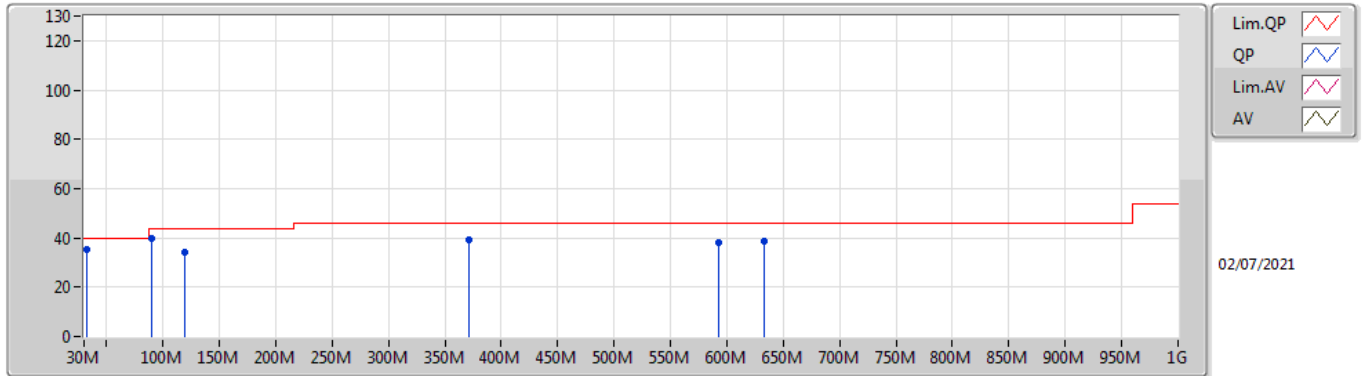
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	PK	90.14M	39.64	43.50	-3.86	3	Vertical	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	31.94M	35.09	40.00	-4.91	3	Vertical	360	1.00	-
2440MHz	Pass	PK	90.14M	39.64	43.50	-3.86	3	Vertical	360	1.00	-
2440MHz	Pass	PK	119.24M	33.99	43.50	-9.51	3	Vertical	360	1.00	-
2440MHz	Pass	PK	371.44M	39.50	46.00	-6.50	3	Vertical	360	1.00	-
2440MHz	Pass	PK	592.6M	38.07	46.00	-7.93	3	Vertical	360	1.00	-
2440MHz	Pass	PK	633.34M	38.54	46.00	-7.46	3	Vertical	360	1.00	-
2440MHz	Pass	PK	30M	34.25	40.00	-5.75	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	90.14M	28.92	43.50	-14.58	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	262.8M	30.52	46.00	-15.48	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	425.76M	34.96	46.00	-11.04	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	580.96M	38.51	46.00	-7.49	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	747.8M	40.34	46.00	-5.66	3	Horizontal	0	1.00	-

BT-LE(1Mbps)

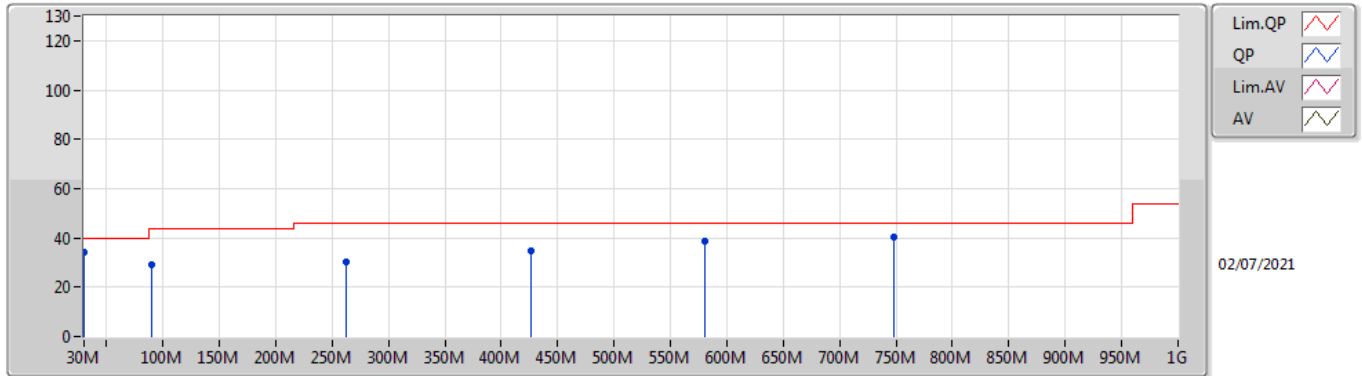
2440MHz_Battery



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	31.94M	35.09	40.00	-4.91	-4.67	3	Vertical	360	1.00	-	39.76	22.03	0.93	27.63
PK	90.14M	39.64	43.50	-3.86	-11.81	3	Vertical	360	1.00	-	51.45	14.08	1.58	27.47
PK	119.24M	33.99	43.50	-9.51	-8.08	3	Vertical	360	1.00	-	42.07	17.41	1.88	27.37
PK	371.44M	39.50	46.00	-6.50	-3.72	3	Vertical	360	1.00	-	43.22	20.03	3.34	27.09
PK	592.6M	38.07	46.00	-7.93	0.17	3	Vertical	360	1.00	-	37.90	23.88	4.34	28.05
PK	633.34M	38.54	46.00	-7.46	0.67	3	Vertical	360	1.00	-	37.87	24.36	4.42	28.11

BT-LE(1Mbps)

2440MHz_Battery



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	34.25	40.00	-5.75	-3.42	3	Horizontal	0	1.00	-	37.67	23.32	0.90	27.64
PK	90.14M	28.92	43.50	-14.58	-11.81	3	Horizontal	0	1.00	-	40.73	14.08	1.58	27.47
PK	262.8M	30.52	46.00	-15.48	-5.34	3	Horizontal	0	1.00	-	35.86	18.67	2.73	26.74
PK	425.76M	34.96	46.00	-11.04	-1.99	3	Horizontal	0	1.00	-	36.95	21.95	3.57	27.51
PK	580.96M	38.51	46.00	-7.49	0.28	3	Horizontal	0	1.00	-	38.23	24.09	4.27	28.08
PK	747.8M	40.34	46.00	-5.66	1.70	3	Horizontal	0	1.00	-	38.64	24.89	4.79	27.98



Summary

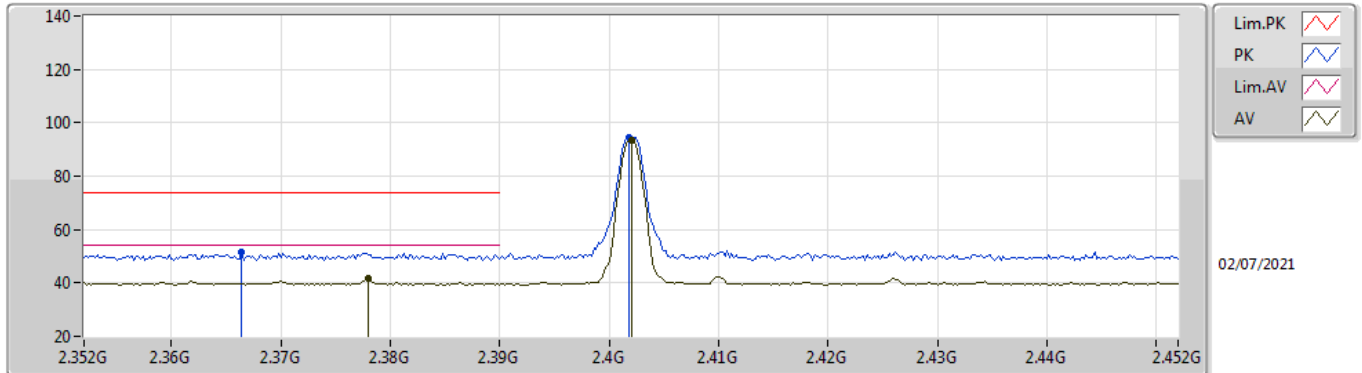
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	4.80394G	51.38	54.00	-2.62	3	Horizontal	66	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.378G	41.56	54.00	-12.44	3	Vertical	118	2.92	-
2402MHz	Pass	AV	2.402G	93.59	Inf	-Inf	3	Vertical	118	2.92	-
2402MHz	Pass	PK	2.3664G	51.31	74.00	-22.69	3	Vertical	118	2.92	-
2402MHz	Pass	PK	2.4018G	94.48	Inf	-Inf	3	Vertical	118	2.92	-
2402MHz	Pass	AV	2.378G	45.79	54.00	-8.21	3	Horizontal	246	1.19	-
2402MHz	Pass	AV	2.402G	99.33	Inf	-Inf	3	Horizontal	246	1.19	-
2402MHz	Pass	PK	2.3778G	53.34	74.00	-20.66	3	Horizontal	246	1.19	-
2402MHz	Pass	PK	2.402G	100.22	Inf	-Inf	3	Horizontal	246	1.19	-
2402MHz	Pass	AV	4.80358G	39.01	54.00	-14.99	3	Vertical	290	1.52	-
2402MHz	Pass	PK	4.80346G	48.47	74.00	-25.53	3	Vertical	290	1.52	-
2402MHz	Pass	AV	4.80394G	51.38	54.00	-2.62	3	Horizontal	66	1.00	-
2402MHz	Pass	PK	4.80454G	56.44	74.00	-17.56	3	Horizontal	66	1.00	-
2440MHz	Pass	AV	2.376G	40.43	54.00	-13.57	3	Vertical	97	2.56	-
2440MHz	Pass	AV	2.44G	91.43	Inf	-Inf	3	Vertical	97	2.56	-
2440MHz	Pass	AV	2.4944G	40.01	54.00	-13.99	3	Vertical	97	2.56	-
2440MHz	Pass	PK	2.3756G	51.41	74.00	-22.59	3	Vertical	97	2.56	-
2440MHz	Pass	PK	2.4396G	92.37	Inf	-Inf	3	Vertical	97	2.56	-
2440MHz	Pass	PK	2.4936G	50.73	74.00	-23.27	3	Vertical	97	2.56	-
2440MHz	Pass	AV	2.376G	44.76	54.00	-9.24	3	Horizontal	64	1.08	-
2440MHz	Pass	AV	2.44G	99.09	Inf	-Inf	3	Horizontal	64	1.08	-
2440MHz	Pass	AV	2.488G	41.62	54.00	-12.38	3	Horizontal	64	1.08	-
2440MHz	Pass	PK	2.3752G	52.43	74.00	-21.57	3	Horizontal	64	1.08	-
2440MHz	Pass	PK	2.4404G	99.99	Inf	-Inf	3	Horizontal	64	1.08	-
2440MHz	Pass	PK	2.4844G	50.79	74.00	-23.21	3	Horizontal	64	1.08	-
2440MHz	Pass	AV	4.8797G	37.90	54.00	-16.10	3	Vertical	299	1.07	-
2440MHz	Pass	AV	7.3194G	43.54	54.00	-10.46	3	Vertical	91	2.71	-
2440MHz	Pass	PK	4.87958G	47.60	74.00	-26.40	3	Vertical	299	1.07	-
2440MHz	Pass	PK	7.31952G	52.82	74.00	-21.18	3	Vertical	91	2.71	-
2440MHz	Pass	AV	4.87976G	50.25	54.00	-3.75	3	Horizontal	65	1.16	-
2440MHz	Pass	AV	7.31928G	46.20	54.00	-7.80	3	Horizontal	70	1.02	-
2440MHz	Pass	PK	4.88054G	55.84	74.00	-18.16	3	Horizontal	65	1.16	-
2440MHz	Pass	PK	7.32072G	54.93	74.00	-19.07	3	Horizontal	70	1.02	-
2480MHz	Pass	AV	2.48G	91.11	Inf	-Inf	3	Vertical	98	2.75	-
2480MHz	Pass	AV	2.4878G	42.12	54.00	-11.88	3	Vertical	98	2.75	-
2480MHz	Pass	PK	2.4798G	92.04	Inf	-Inf	3	Vertical	98	2.75	-
2480MHz	Pass	PK	2.4878G	51.17	74.00	-22.83	3	Vertical	98	2.75	-
2480MHz	Pass	AV	2.48G	97.96	Inf	-Inf	3	Horizontal	55	1.50	-
2480MHz	Pass	AV	2.4878G	46.08	54.00	-7.92	3	Horizontal	55	1.50	-
2480MHz	Pass	PK	2.48G	98.85	Inf	-Inf	3	Horizontal	55	1.50	-
2480MHz	Pass	PK	2.4835G	54.33	74.00	-19.67	3	Horizontal	55	1.50	-
2480MHz	Pass	AV	4.9597G	39.89	54.00	-14.11	3	Vertical	38	2.91	-
2480MHz	Pass	AV	7.43922G	42.42	54.00	-11.58	3	Vertical	282	1.16	-
2480MHz	Pass	PK	4.95952G	49.25	74.00	-24.75	3	Vertical	38	2.91	-
2480MHz	Pass	PK	7.44048G	52.23	74.00	-21.77	3	Vertical	282	1.16	-
2480MHz	Pass	AV	4.96012G	48.16	54.00	-5.84	3	Horizontal	69	1.02	-
2480MHz	Pass	AV	7.4394G	46.42	54.00	-7.58	3	Horizontal	297	1.15	-
2480MHz	Pass	PK	4.96G	54.27	74.00	-19.73	3	Horizontal	69	1.02	-
2480MHz	Pass	PK	7.43916G	54.43	74.00	-19.57	3	Horizontal	297	1.15	-

BT-LE(1Mbps)

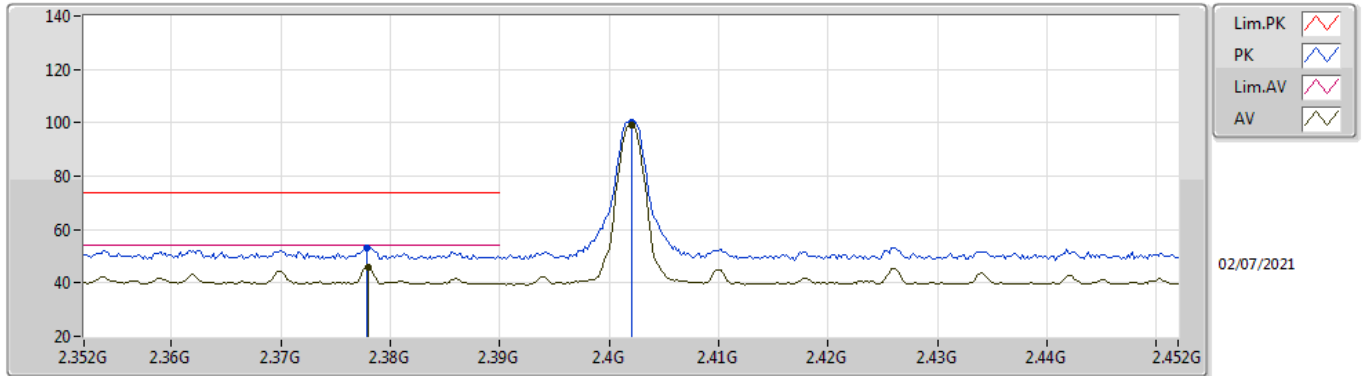
2402MHz_TX



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	2.378G	41.56	54.00	-12.44	1.95	3	Vertical	118	2.92	-	39.61	27.69	4.28	30.02
AV	2.402G	93.59	Inf	-Inf	1.89	3	Vertical	118	2.92	-	91.70	27.60	4.30	30.01
PK	2.3664G	51.31	74.00	-22.69	1.97	3	Vertical	118	2.92	-	49.34	27.73	4.27	30.03
PK	2.4018G	94.48	Inf	-Inf	1.89	3	Vertical	118	2.92	-	92.59	27.60	4.30	30.01

BT-LE(1Mbps)

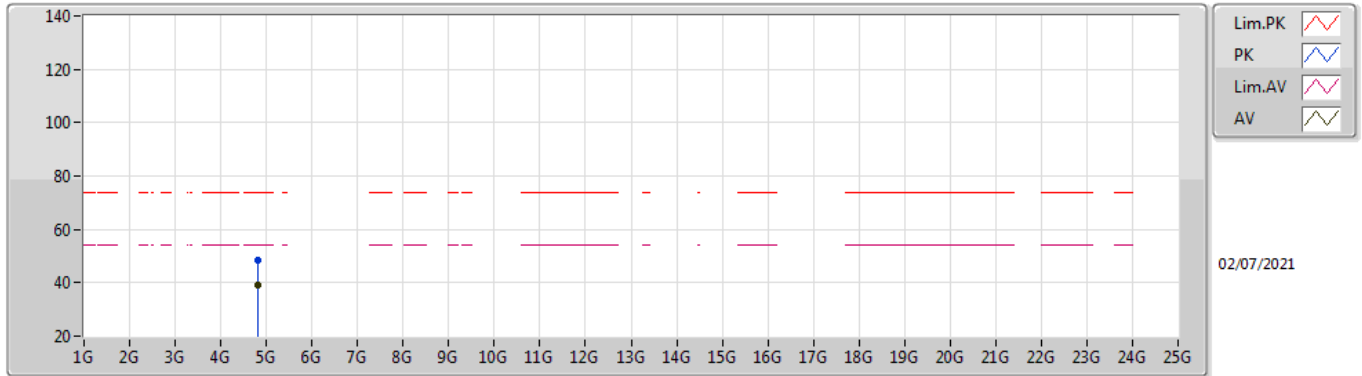
2402MHz_TX



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	2.378G	45.79	54.00	-8.21	1.95	3	Horizontal	246	1.19	-	43.84	27.69	4.28	30.02
AV	2.402G	99.33	Inf	-Inf	1.89	3	Horizontal	246	1.19	-	97.44	27.60	4.30	30.01
PK	2.3778G	53.34	74.00	-20.66	1.95	3	Horizontal	246	1.19	-	51.39	27.69	4.28	30.02
PK	2.402G	100.22	Inf	-Inf	1.89	3	Horizontal	246	1.19	-	98.33	27.60	4.30	30.01

BT-LE(1Mbps)

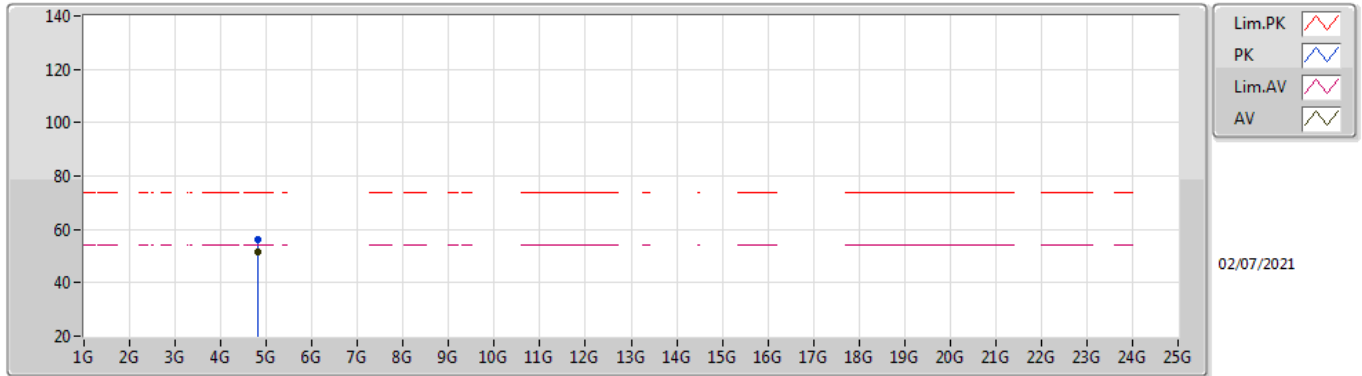
2402MHz_TX



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	4.80358G	39.01	54.00	-14.99	8.38	3	Vertical	290	1.52	-	30.63	31.11	6.50	29.23
PK	4.80346G	48.47	74.00	-25.53	8.38	3	Vertical	290	1.52	-	40.09	31.11	6.50	29.23

BT-LE(1Mbps)

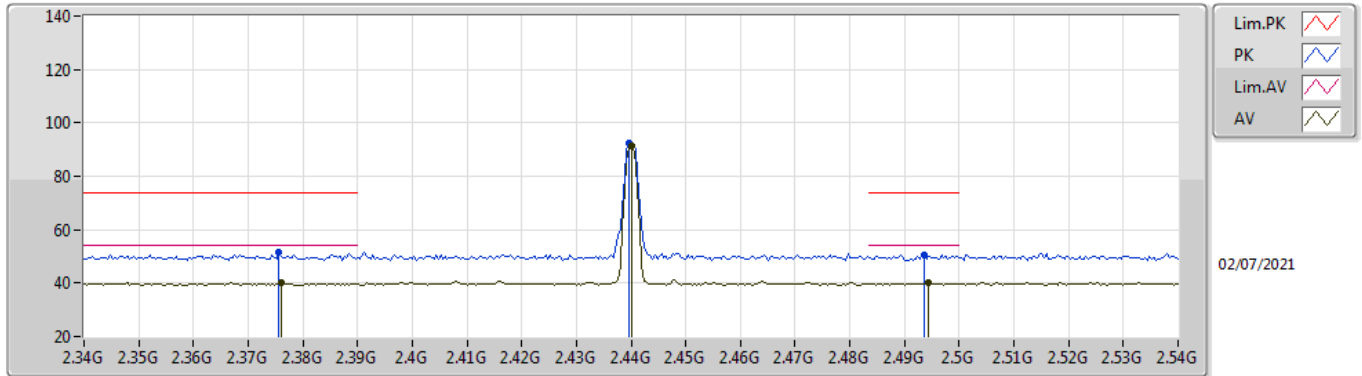
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80394G	51.38	54.00	-2.62	8.38	3	Horizontal	66	1.00	-	43.00	31.11	6.50	29.23
PK	4.80454G	56.44	74.00	-17.56	8.38	3	Horizontal	66	1.00	-	48.06	31.11	6.50	29.23

BT-LE(1Mbps)

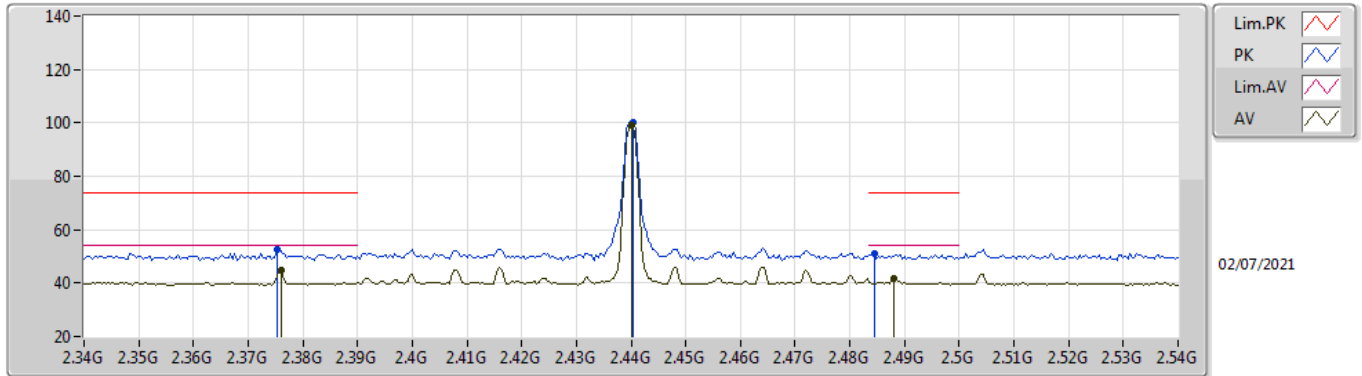
2440MHz_TX



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	2.376G	40.43	54.00	-13.57	1.96	3	Vertical	97	2.56	-	38.47	27.70	4.28	30.02
AV	2.44G	91.43	Inf	-Inf	1.95	3	Vertical	97	2.56	-	89.48	27.60	4.34	29.99
AV	2.4944G	40.01	54.00	-13.99	2.12	3	Vertical	97	2.56	-	37.89	27.69	4.39	29.96
PK	2.3756G	51.41	74.00	-22.59	1.96	3	Vertical	97	2.56	-	49.45	27.70	4.28	30.02
PK	2.4396G	92.37	Inf	-Inf	1.95	3	Vertical	97	2.56	-	90.42	27.60	4.34	29.99
PK	2.4936G	50.73	74.00	-23.27	2.12	3	Vertical	97	2.56	-	48.61	27.69	4.39	29.96

BT-LE(1Mbps)

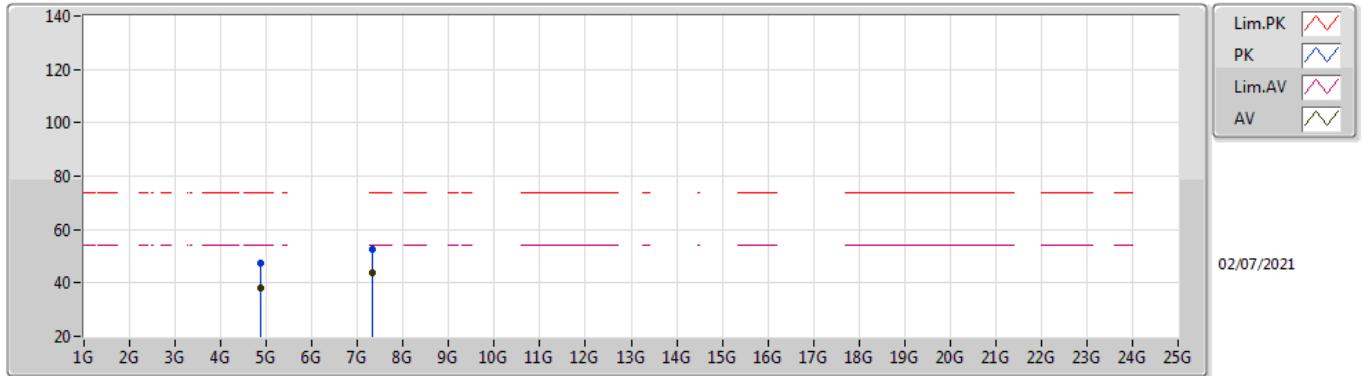
2440MHz_TX



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	2.376G	44.76	54.00	-9.24	1.96	3	Horizontal	64	1.08	-	42.80	27.70	4.28	30.02
AV	2.44G	99.09	Inf	-Inf	1.95	3	Horizontal	64	1.08	-	97.14	27.60	4.34	29.99
AV	2.488G	41.62	54.00	-12.38	2.10	3	Horizontal	64	1.08	-	39.52	27.68	4.39	29.97
PK	2.3752G	52.43	74.00	-21.57	1.96	3	Horizontal	64	1.08	-	50.47	27.70	4.28	30.02
PK	2.4404G	99.99	Inf	-Inf	1.95	3	Horizontal	64	1.08	-	98.04	27.60	4.34	29.99
PK	2.4844G	50.79	74.00	-23.21	2.08	3	Horizontal	64	1.08	-	48.71	27.67	4.38	29.97

BT-LE(1Mbps)

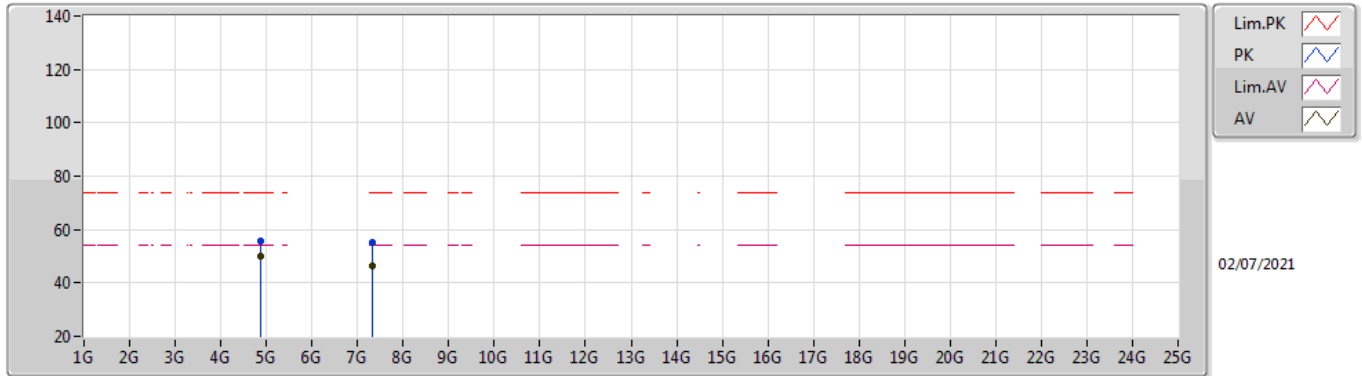
2440MHz_TX



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	4.8797G	37.90	54.00	-16.10	8.57	3	Vertical	299	1.07	-	29.33	31.20	6.58	29.21
AV	7.3194G	43.54	54.00	-10.46	13.69	3	Vertical	91	2.71	-	29.85	36.26	7.60	30.17
PK	4.87958G	47.60	74.00	-26.40	8.57	3	Vertical	299	1.07	-	39.03	31.20	6.58	29.21
PK	7.31952G	52.82	74.00	-21.18	13.69	3	Vertical	91	2.71	-	39.13	36.26	7.60	30.17

BT-LE(1Mbps)

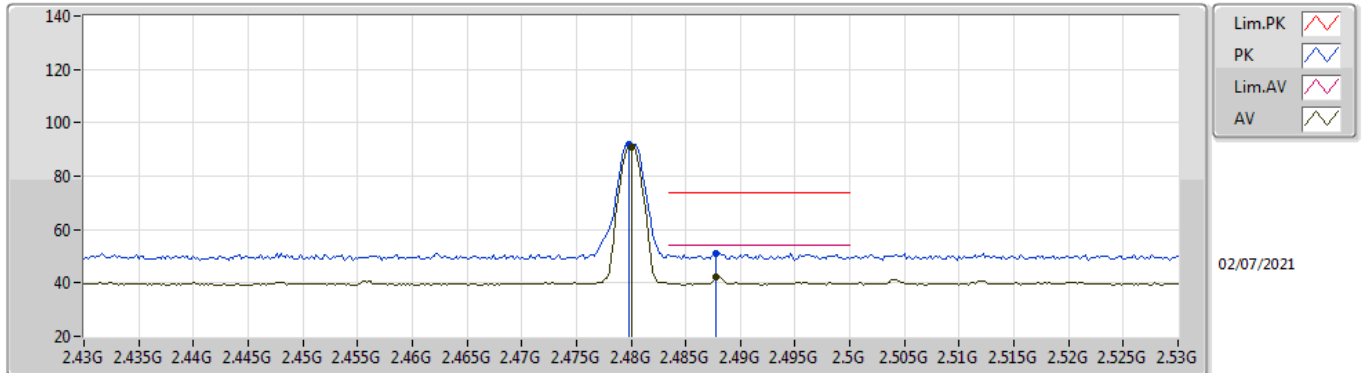
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87976G	50.25	54.00	-3.75	8.57	3	Horizontal	65	1.16	-	41.68	31.20	6.58	29.21
AV	7.31928G	46.20	54.00	-7.80	13.69	3	Horizontal	70	1.02	-	32.51	36.26	7.60	30.17
PK	4.88054G	55.84	74.00	-18.16	8.57	3	Horizontal	65	1.16	-	47.27	31.20	6.58	29.21
PK	7.32072G	54.93	74.00	-19.07	13.69	3	Horizontal	70	1.02	-	41.24	36.26	7.60	30.17

BT-LE(1Mbps)

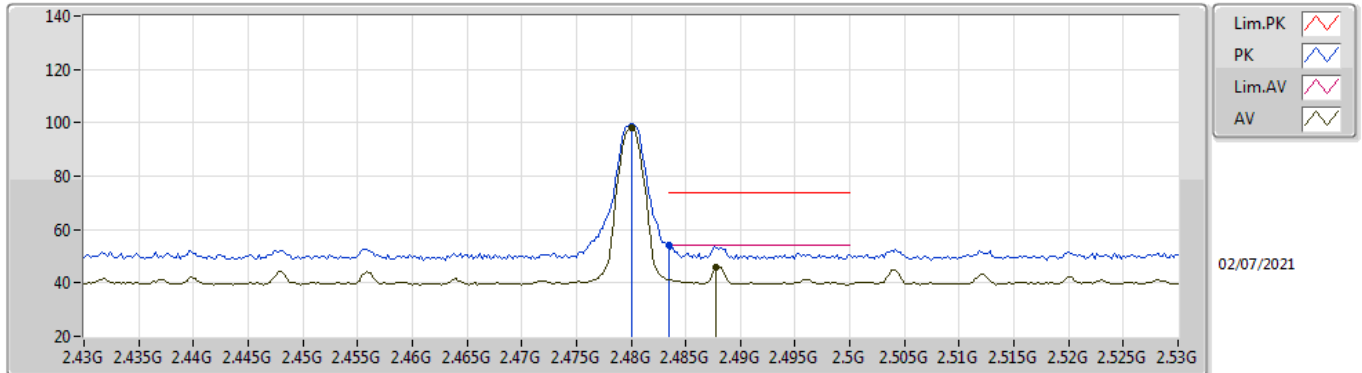
2480MHz_TX



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	91.11	Inf	-Inf	2.07	3	Vertical	98	2.75	-	89.04	27.66	4.38	29.97
AV	2.4878G	42.12	54.00	-11.88	2.10	3	Vertical	98	2.75	-	40.02	27.68	4.39	29.97
PK	2.4798G	92.04	Inf	-Inf	2.07	3	Vertical	98	2.75	-	89.97	27.66	4.38	29.97
PK	2.4878G	51.17	74.00	-22.83	2.10	3	Vertical	98	2.75	-	49.07	27.68	4.39	29.97

BT-LE(1Mbps)

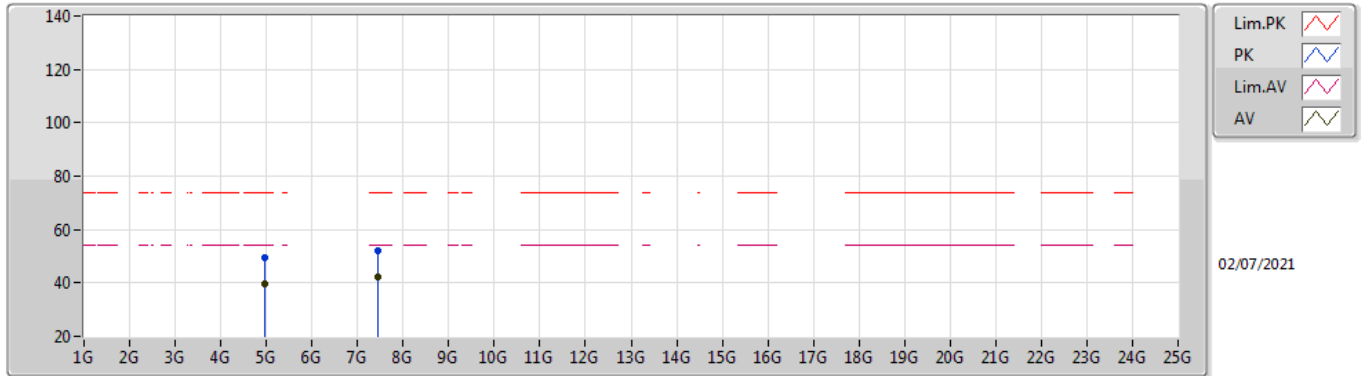
2480MHz_TX



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	97.96	Inf	-Inf	2.07	3	Horizontal	55	1.50	-	95.89	27.66	4.38	29.97
AV	2.4878G	46.08	54.00	-7.92	2.10	3	Horizontal	55	1.50	-	43.98	27.68	4.39	29.97
PK	2.48G	98.85	Inf	-Inf	2.07	3	Horizontal	55	1.50	-	96.78	27.66	4.38	29.97
PK	2.4835G	54.33	74.00	-19.67	2.08	3	Horizontal	55	1.50	-	52.25	27.67	4.38	29.97

BT-LE(1Mbps)

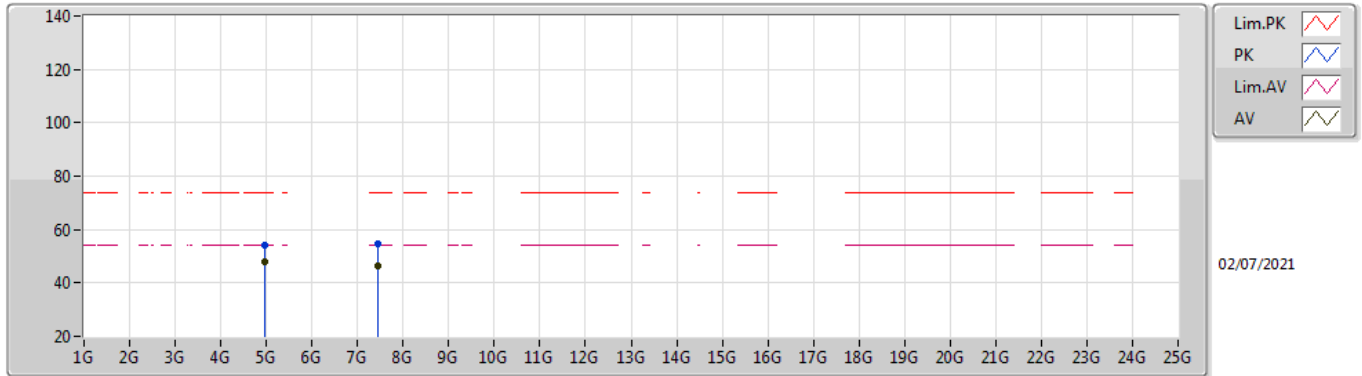
2480MHz_TX



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	4.9597G	39.89	54.00	-14.11	8.82	3	Vertical	38	2.91	-	31.07	31.34	6.66	29.18
AV	7.43922G	42.42	54.00	-11.58	13.64	3	Vertical	282	1.16	-	28.78	36.26	7.64	30.26
PK	4.95952G	49.25	74.00	-24.75	8.82	3	Vertical	38	2.91	-	40.43	31.34	6.66	29.18
PK	7.44048G	52.23	74.00	-21.77	13.64	3	Vertical	282	1.16	-	38.59	36.26	7.64	30.26

BT-LE(1Mbps)

2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.96012G	48.16	54.00	-5.84	8.82	3	Horizontal	69	1.02	-	39.34	31.34	6.66	29.18
AV	7.4394G	46.42	54.00	-7.58	13.64	3	Horizontal	297	1.15	-	32.78	36.26	7.64	30.26
PK	4.96G	54.27	74.00	-19.73	8.82	3	Horizontal	69	1.02	-	45.45	31.34	6.66	29.18
PK	7.43916G	54.43	74.00	-19.57	13.64	3	Horizontal	297	1.15	-	40.79	36.26	7.64	30.26