

FCC Radio Test Report

FCC ID : C3K2029
Equipment : Portable Computing Device
Brand Name : Microsoft
Model Name : 2029
Applicant : Microsoft Corporation
One Microsoft Way Redmond, WA 98052-6399, U.S.A
Manufacturer : Microsoft Corporation
One Microsoft Way Redmond, WA 98052-6399, U.S.A
Standard : 47 CFR FCC Part 15.247

The product was received on Jan. 03, 2023, and testing was started from Jan. 12, 2023 and completed on Jun. 05, 2023. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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PHOTOGRAPHS OF EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FR310101AD	01	Initial issue of report	Jul. 03, 2023
FR310101AD	02	Revised typo. (This report is the latest version replacing for the report issued on Jul. 03, 2023.)	Jul. 14, 2023
FR310101AD	03	Revised typo. (This report is the latest version replacing for the report issued on Jul. 14, 2023.)	Jul. 21, 2023
FR310101AD	04	Revised typo. (This report is the latest version replacing for the report issued on Jul. 21, 2023.)	Sep. 01, 2023

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	20dB Bandwidth	PASS	-
3.2	15.247(a)	Carrier Frequency Separation	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(a)	Number of Hopping Frequencies and Hopping Bandedge	PASS	-
3.5	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.7	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: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Version	Ch. Frequency (MHz)	Channel Number
2400-2483.5	BR / EDR	2402-2480	0-78 [79]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-BR(1Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(2Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(3Mbps)	1	1TX

Note:

- Bluetooth BR uses a GFSK (1Mbps).
- Bluetooth EDR uses a combination of $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
- Bluetooth BR/EDR uses as a system using FHSS modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Amphenol	CNF964-16-000-R	PIFA	I-PEX
2	Amphenol	CNF965-16-000-R	PIFA	I-PEX

Ant.	Port	Gain (dBi)						
		2.4GHz	Bluetooth	5GHz				
				U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	U-NII-4
1(Aux)	1	4.57	4.57	4.83	5.23	5.89	6.02	5.77
2(Main)	2	4.77	-	4.11	5.43	6.16	5.85	5.74

Ant.	Port	Gain (dBi)			
		6GHz			
		U-NII-5	U-NII-6	U-NII-7	U-NII-8
1(Aux)	1	7.02	7.74	7.74	4.59
2(Main)	2	6.92	7.45	7.45	5.10

Note 1: The EUT has two antennas.

Note 2: The transmit signals are completely uncorrelated, the Directional Gain=

$$10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/N_{ANT}] \text{ dBi}$$

For 2.4GHz function:

For IEEE 802.11 b/g/n/ax mode (1TX/1RX)



Support diversity function and tested on each single chain.

For IEEE 802.11 n/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

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

Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (1TX/1RX)

Support diversity function and tested on each single chain.

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax mode (1TX/1RX)

Support diversity function and tested on each single chain.

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

1.1.3 EUT Information

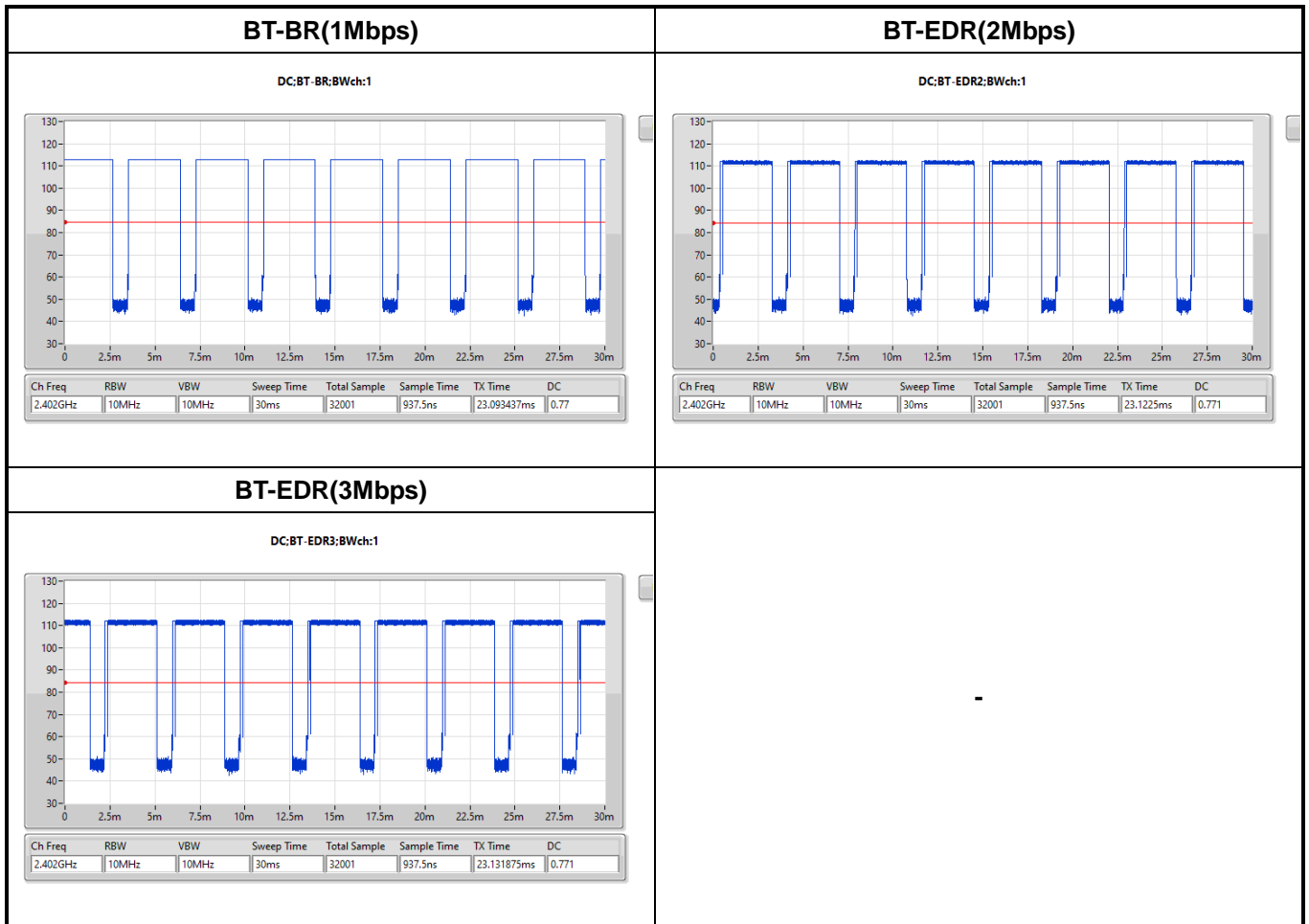
Operational Condition	
EUT Power Type	From AC Adapter / Battery
EUT Function	<input checked="" type="checkbox"/> Point-to-multipoint <input type="checkbox"/> Point-to-point
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:



1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-BR(1Mbps)	0.77	1.14	2.887m	1k
BT-EDR(2Mbps)	0.771	1.13	2.891m	1k
BT-EDR(3Mbps)	0.771	1.13	2.752m	1k

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



1.2 Testing Applied Standards

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

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

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

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<input checked="" type="checkbox"/> 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
AC Conduction	CO04-HY	Daniel Lin	21.0~22.1°C / 51~56%	12/Jan/2023
RF Conducted	TH06-HY	Jin Jing	22.3~23.3°C / 55~63%	06/Feb/2023~15/Mar/2023
Radiated	03CH02-HY	Kun Lee	22.2~23.4°C / 50~52%	22/Mar/2023~27/Mar/2023
<input checked="" type="checkbox"/> 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 (Co-location)	03CH09-HY	Edward Wang	22.2~23.4°C / 50~52%	05/Jun/2023

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
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT




2.1 Test Channel Mode

Test Software Version	DRTU Version: DRTU.03227.22.190.0
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2.2 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequencies Hopping Bandedge Time of Occupancy (Dwell Time) Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains <input checked="" type="checkbox"/> Non-adaptive frequency hopping systems (Non-AFH) <input checked="" type="checkbox"/> adaptive frequency hopping systems (AFH)
Non-AFH Mode configuration was found to be the worst case and measured during the test.	

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter Mode		
2	Adapter Mode (Full Port)		
Operating Mode > 1GHz	CTX		
Three EUT configure modes were pretest, only the worst case was performed and recorded in this test report. EUT configure modes are described in the operational description.			
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	2.4GHz WLAN + Bluetooth
2	5GHz WLAN + Bluetooth
3	5.9GHz WLAN + Bluetooth
4	6GHz WLAN + Bluetooth
Refer to Sporton Test Report No.: FA310101 for Co-location RF Exposure Evaluation and Appendix H for Radiated Emission Co-location.	

2.3 Accessories

Adapter 1	Brand Name	Microsoft	Model Name	1932
	Manufacturer	Chicony	SN	-
	Power Rating	I/P:100-240Vac,1.91A,O/P:15.0Vdc,8.0A,120.0W,5.0Vdc,1.5A,7.5W		
Adapter 2	Brand Name	Microsoft	Model Name	1798
	Manufacturer	Chicony	SN	-
	Power Rating	I/P:100-240Vac,1.5A,O/P:15.0Vdc,6.33A,95.0W,5.0Vdc,1.5A,7.5W		
Power Cord 1	Brand Name	Voilex (Asia) Pte Ltd	Model Name	X908885
Power Cord 2	Brand Name	WELL SHIN TECHNOLOGY CO.,LTD	Model Name	X908885
Stylus	Brand Name	Microsoft	Model Name	1962
Battery 1	Brand Name	SMP	Model Name	G3HTA071H
Battery 2	Brand Name	SMP	Model Name	G3HTA072H

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

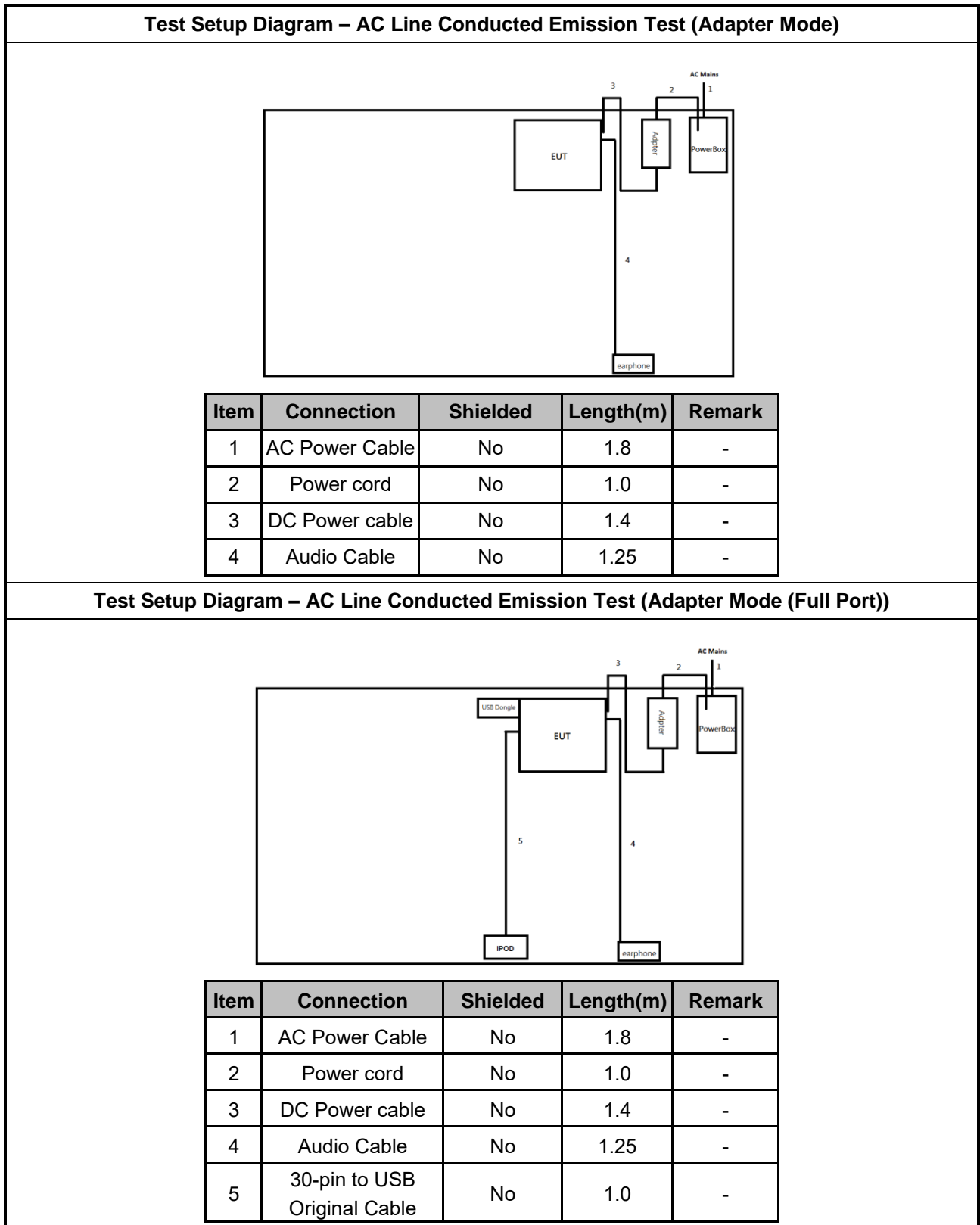
2.4 Support Equipment

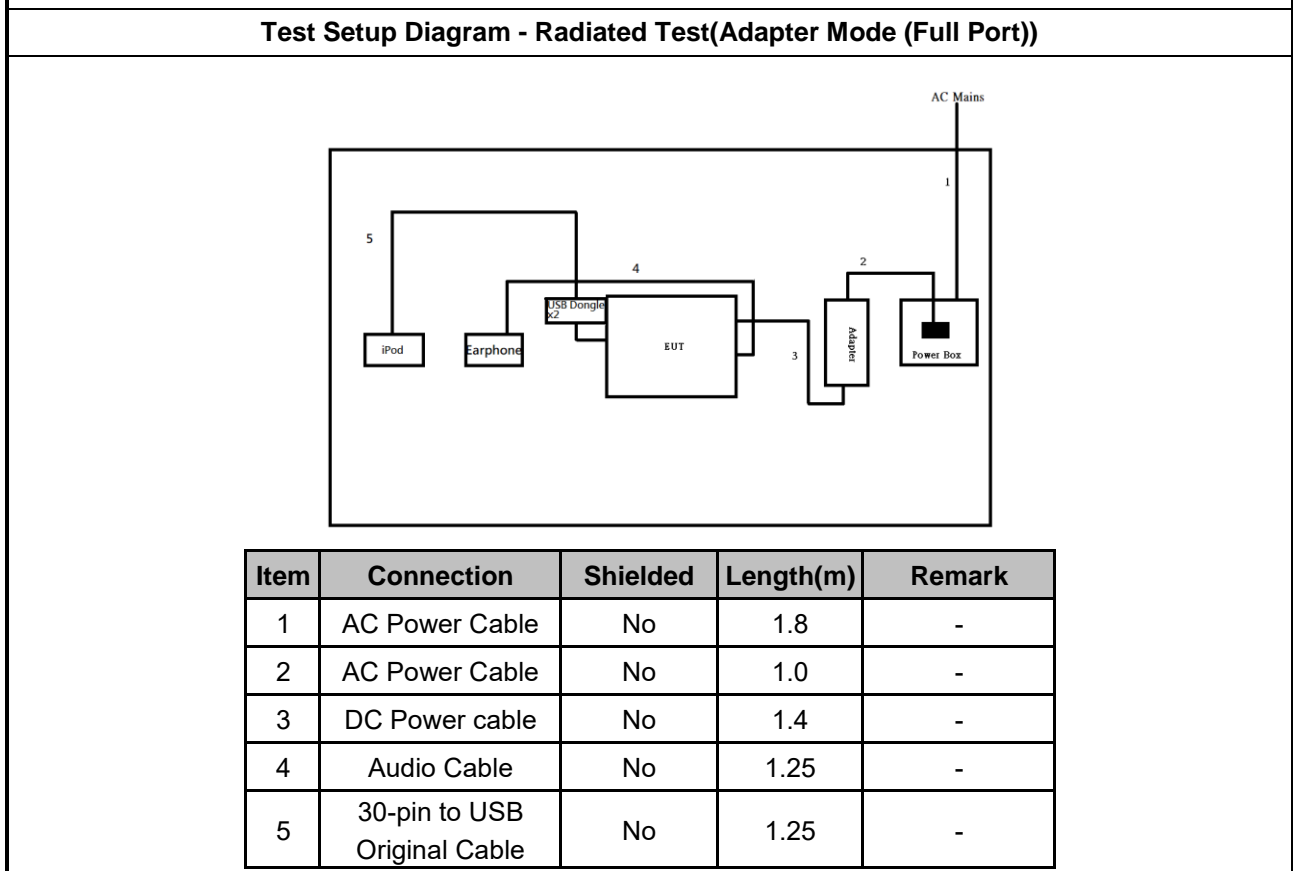
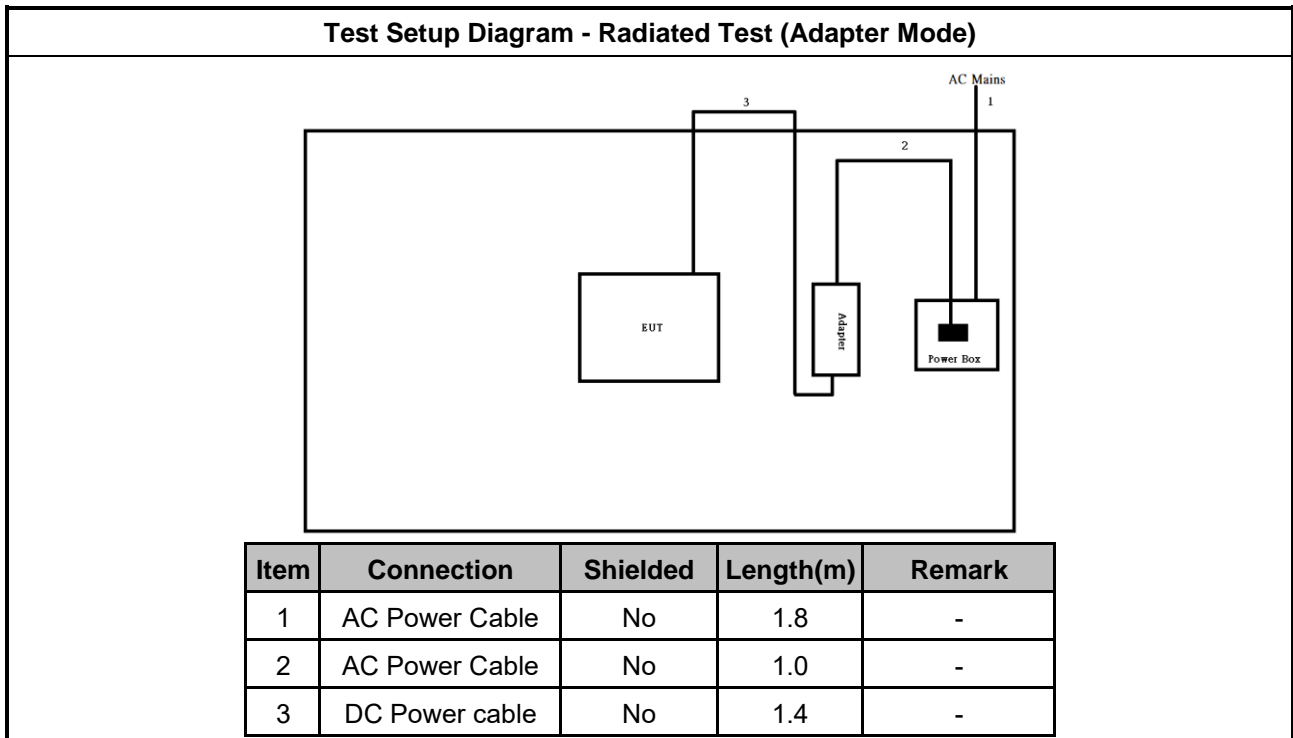
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	iPod	Apple	A1199	-	-
2	30-pin to USB Original cable	Apple	MA591GC	-	-
3	Earphone	Apple	MD827FE/A	-	-
4	USB Dongle*2	SanDisk	SDDDC4	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Mouse	lenovo	MOGOUO	-	-
2	Earphone	EDSDS	EDS-C438	-	-
3	iPod	Apple	A1199	-	-
4	USB Dongle*2	SanDisk	SDDDC4	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	Dell	E5410	-	-
2	Adapter for NB	Dell	HA65NM130	-	-

2.5 Test Setup Diagram







3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

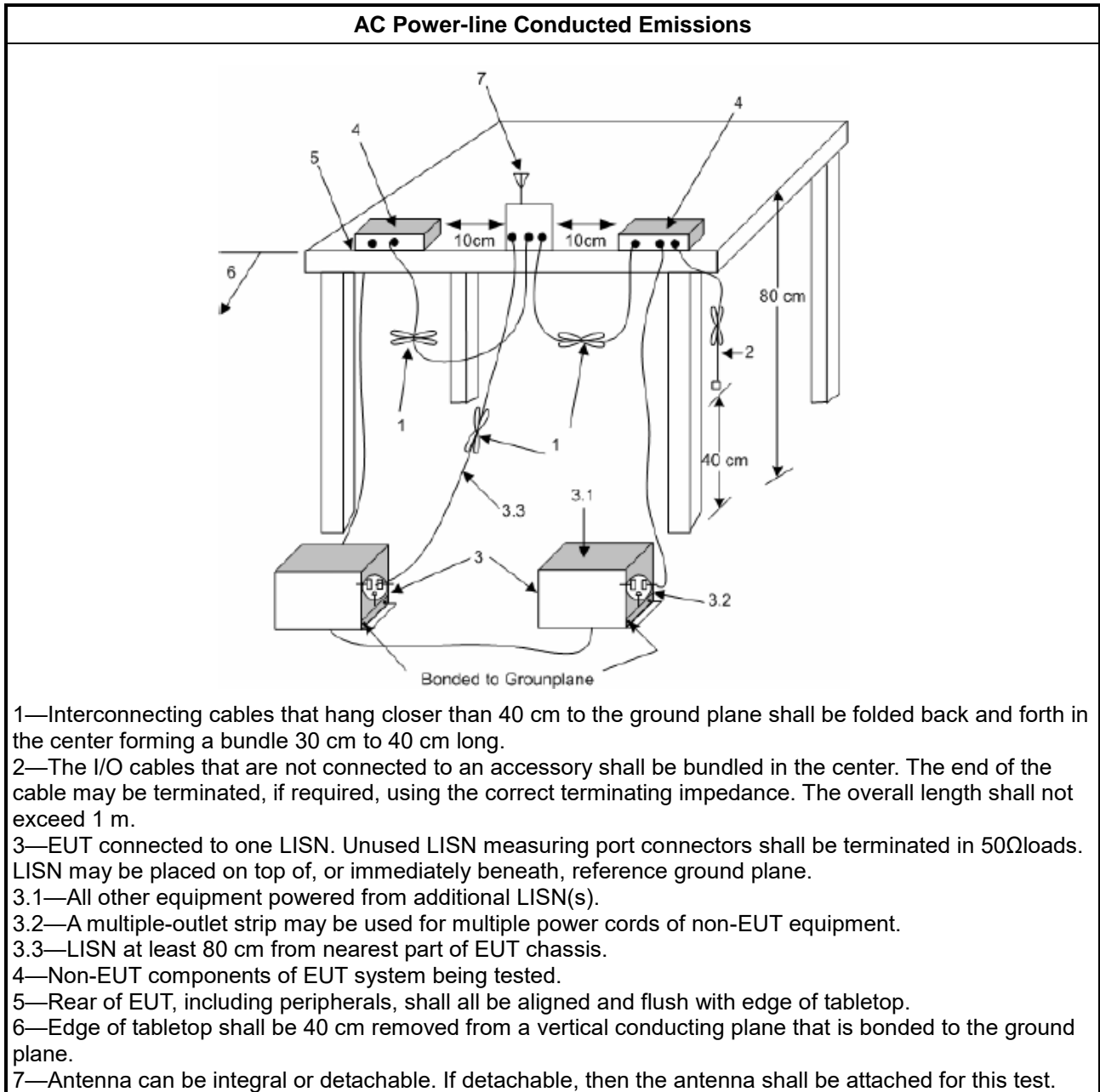
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
<ul style="list-style-type: none"> 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	<ul style="list-style-type: none"> $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

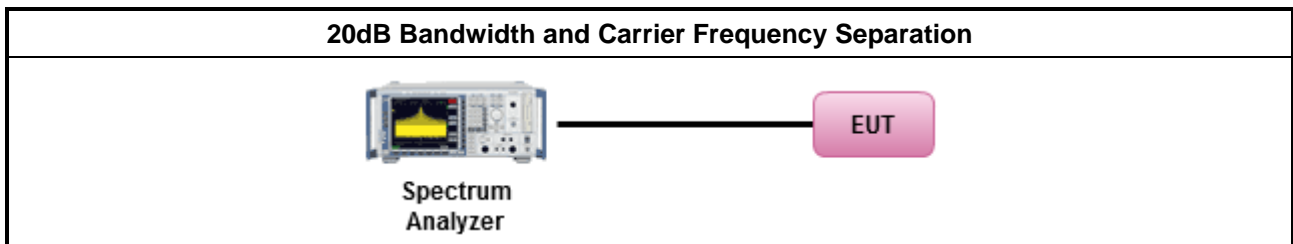
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> ▪ $N \geq 75$; Power 30dBm; EIRP 36dBm
	<ul style="list-style-type: none"> ▪ $75 > N \geq 15$; Power 21dBm; EIRP 27dBm
N: Number of Hopping Frequencies	

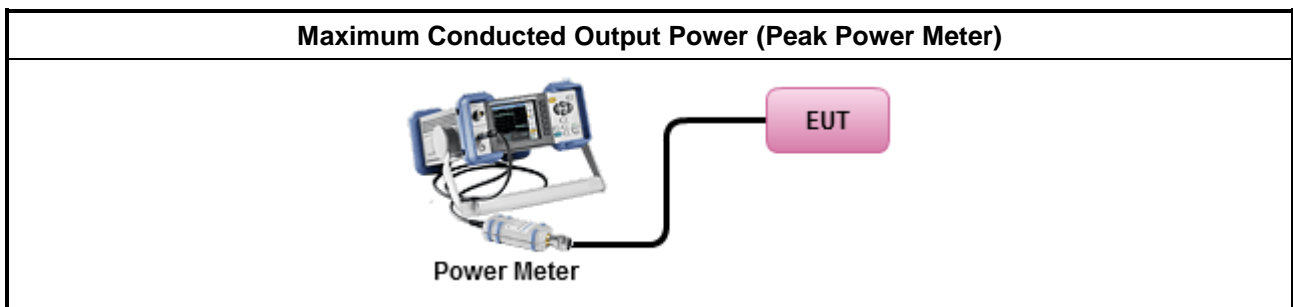
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
<ul style="list-style-type: none"> 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	<ul style="list-style-type: none"> $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3,25 kHz).
N: Number of Hopping Frequencies; ChS : Hopping Channel Separation	

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

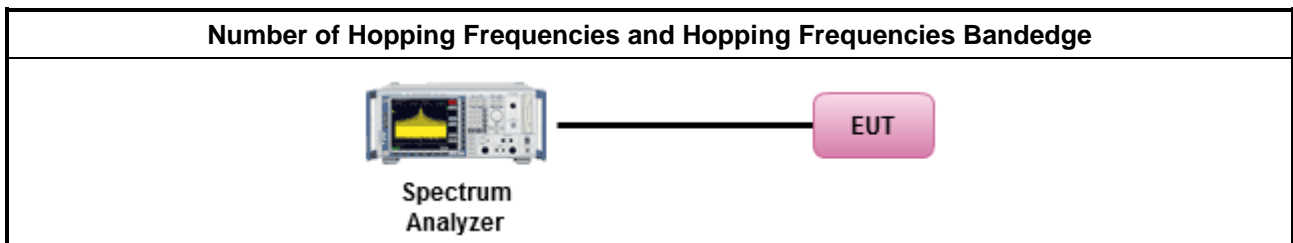
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.

3.4.5 Test Setup



3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
<ul style="list-style-type: none"> 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 75$; 0.4s in $N \times 0.4$ period
	<ul style="list-style-type: none"> $75 > N \geq 15$; 0.4s in $N \times 0.4$ period
N: Number of Hopping Frequencies	

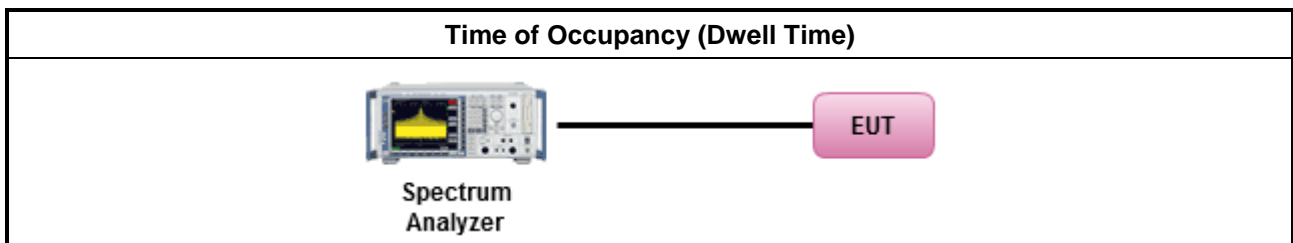
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement. 	
<ul style="list-style-type: none"> Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle. 	
	<ul style="list-style-type: none"> The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is $5/1600$ seconds, or 3.125ms. DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel.

3.5.4 Test Setup



3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

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

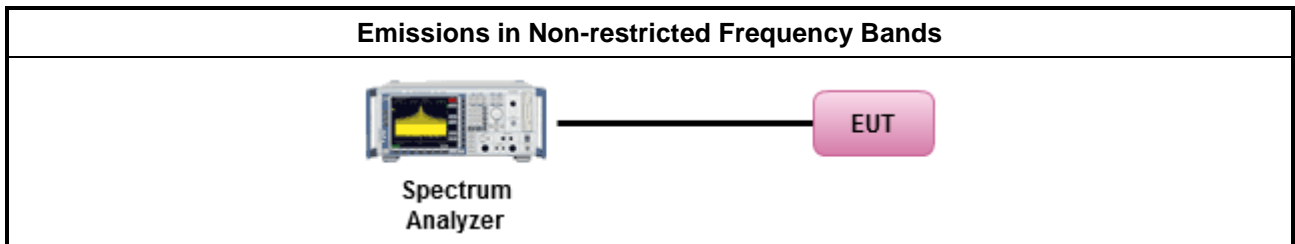
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.

3.6.4 Test Setup



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

3.7 Emissions in Restricted Frequency Bands

3.7.1 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.

3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

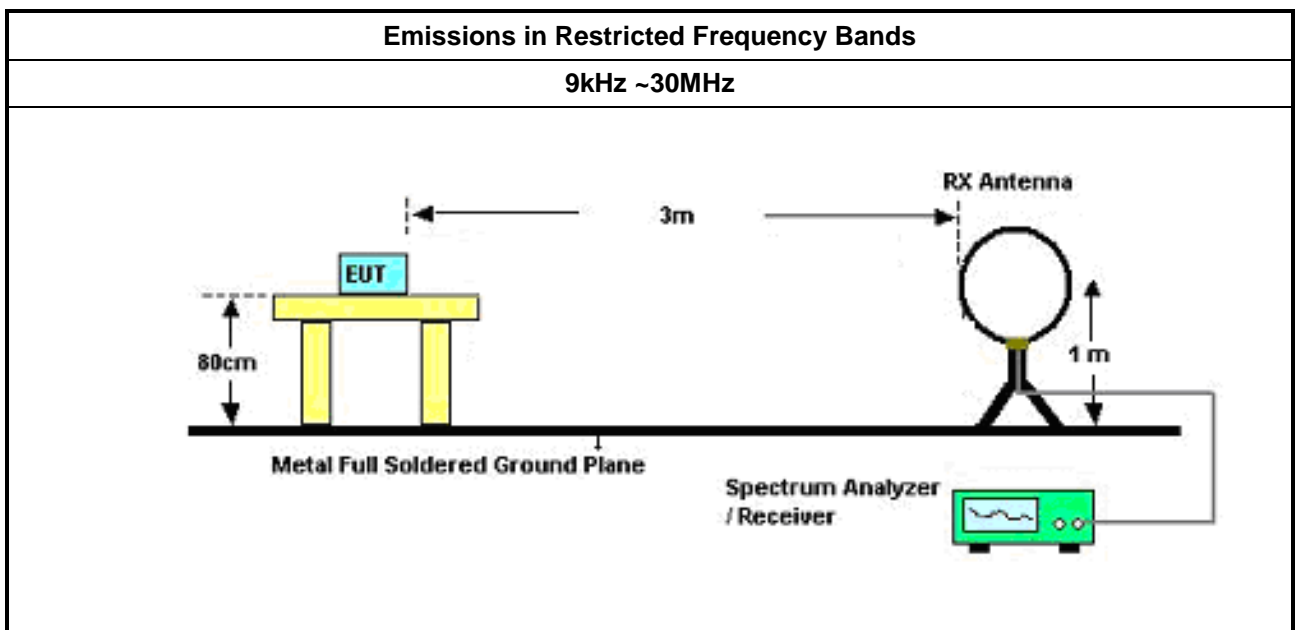
Test Method	
▪	The average emission levels shall be measured in [hopping duty factor].
▪	Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted emissions shall be measured using following options below:
▪	Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
▪	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
▪	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.
▪	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.

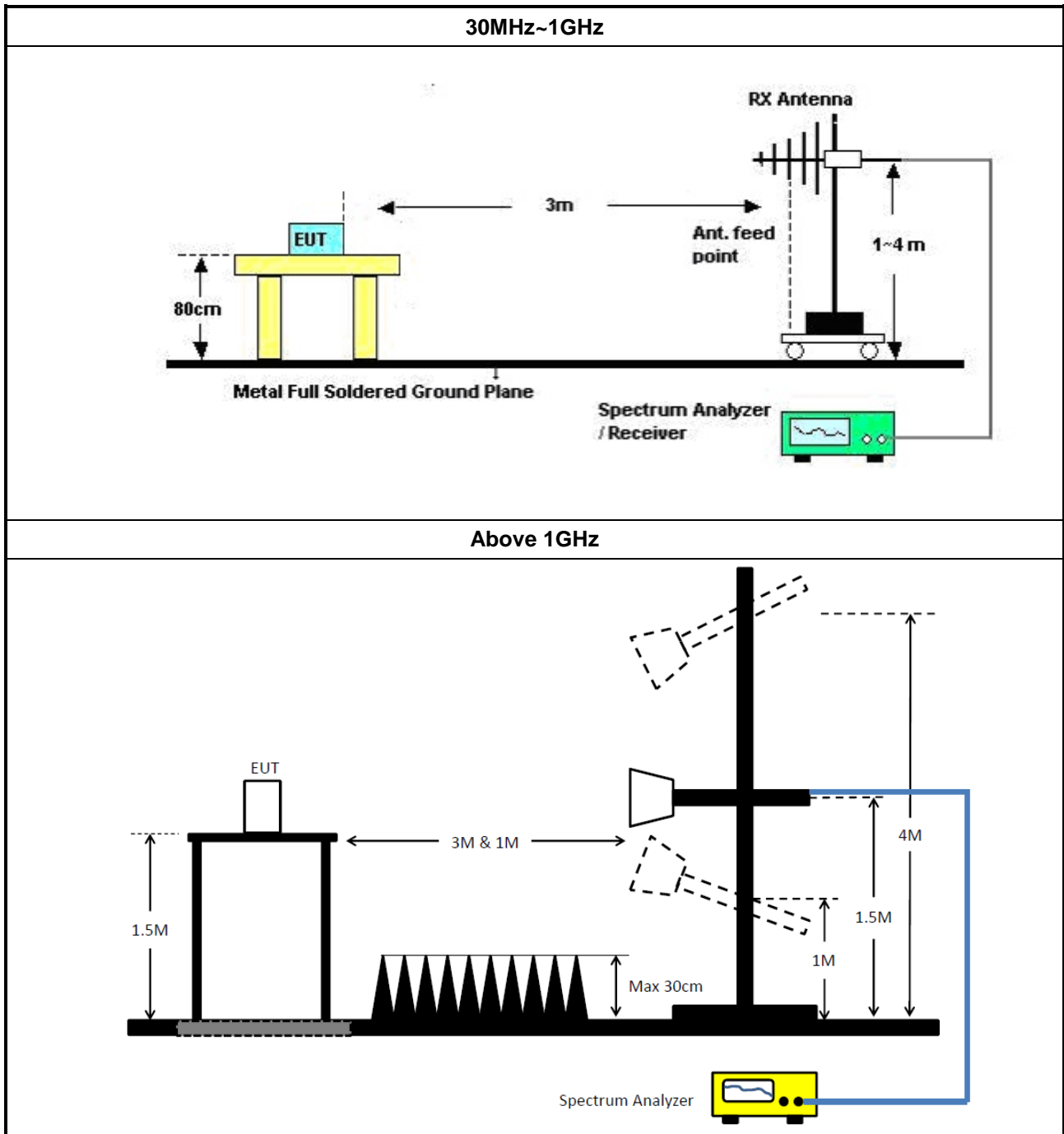
3.7.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.7.5 Test Setup





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

Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement. The parallel orientation was found to be the worst case scenario. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.7.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	13/May/2022	12/May/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	10/Nov/2022	09/Nov/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2022	24/Mar/2023
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2022	24/Mar/2023
SENSE-15247_FS	Sporton	V5.11.1	N/A	N/A	N/A	N/A

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Site V.S.W.R	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	14/Mar/2023	13/Mar/2024
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	30/Dec/2022	29/Dec/2023
Microwave Pre-amplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	21/Feb/2023	20/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Pre-amplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	16/Mar/2023	15/Mar/2024
SENSE-EMI	Sporton	V5.11	NA	NA	NA	NA



Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	31/Jul/2022	30/Jul/2023
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	28/Jun/2022	27/Jun/2023
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	28/Aug/2022	27/Aug/2023
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	9kHz~30MHz	20/Dec/2022	19/Dec/2023
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	30MHz~1GHz	20/Dec/2022	19/Dec/2023
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	03CH02-cable-01	1GHz~40GHz	10/Feb/2023	09/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	15GHz~40GHz	14/May/2022	13/May/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	16/Mar/2023	15/Mar/2024
Loop Antenna	Teseq	HLA 6120	24155	9kHz~30MHz	14/May/2022	13/May/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	30/May/2022	29/May/2023
SENSE-15247_FS	Sporton	Sporton	V5.11.1.0	NA	NA	NA



Summary

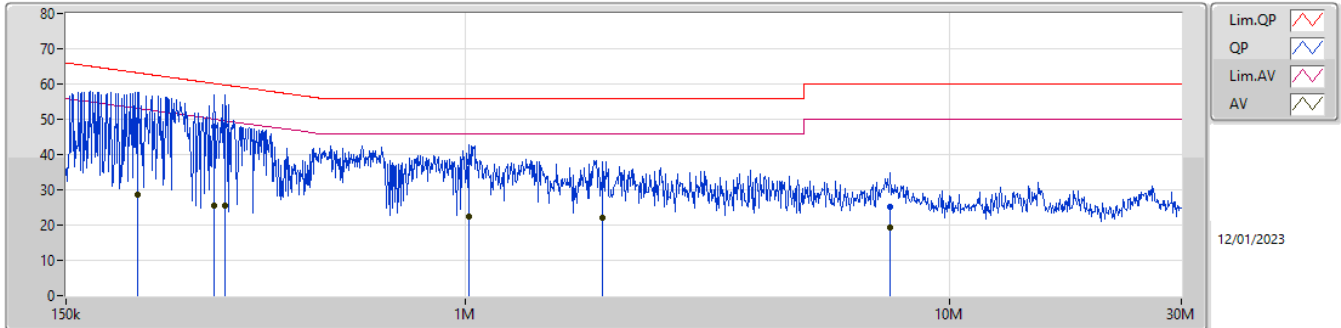
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	318.98k	48.12	59.73	-11.61	Line
Mode 2	Pass	QP	315.182k	49.53	59.82	-10.29	Line



Result

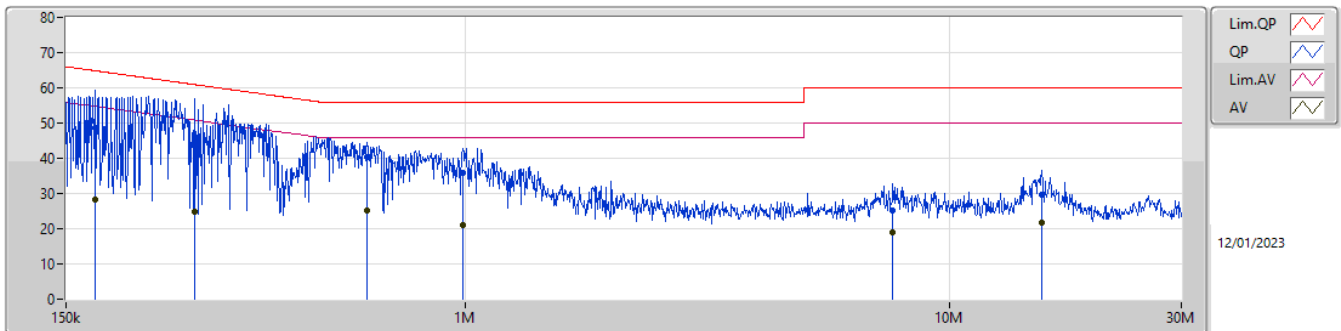
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	210.599k	49.67	63.19	-13.52	Line	-
Mode 1	Pass	AV	210.599k	28.67	53.19	-24.52	Line	-
Mode 1	Pass	QP	302.848k	47.76	60.17	-12.41	Line	-
Mode 1	Pass	AV	302.848k	25.50	50.17	-24.67	Line	-
Mode 1	Pass	QP	318.98k	48.12	59.73	-11.61	Line	-
Mode 1	Pass	AV	318.98k	25.43	49.73	-24.30	Line	-
Mode 1	Pass	QP	1.015M	37.93	56.00	-18.07	Line	-
Mode 1	Pass	AV	1.015M	22.39	46.00	-23.61	Line	-
Mode 1	Pass	QP	1.923M	31.34	56.00	-24.66	Line	-
Mode 1	Pass	AV	1.923M	21.99	46.00	-24.01	Line	-
Mode 1	Pass	QP	7.531M	25.24	60.00	-34.76	Line	-
Mode 1	Pass	AV	7.531M	19.29	50.00	-30.71	Line	-
Mode 1	Pass	QP	171.806k	48.71	64.87	-16.16	Neutral	-
Mode 1	Pass	AV	171.806k	28.26	54.87	-26.61	Neutral	-
Mode 1	Pass	QP	276.28k	44.18	60.93	-16.75	Neutral	-
Mode 1	Pass	AV	276.28k	24.82	50.93	-26.11	Neutral	-
Mode 1	Pass	QP	626.268k	40.41	56.00	-15.59	Neutral	-
Mode 1	Pass	AV	626.268k	25.28	46.00	-20.72	Neutral	-
Mode 1	Pass	QP	987.197k	35.96	56.00	-20.04	Neutral	-
Mode 1	Pass	AV	987.197k	20.93	46.00	-25.07	Neutral	-
Mode 1	Pass	QP	7.622M	25.18	60.00	-34.82	Neutral	-
Mode 1	Pass	AV	7.622M	18.84	50.00	-31.16	Neutral	-
Mode 1	Pass	QP	15.45M	29.69	60.00	-30.31	Neutral	-
Mode 1	Pass	AV	15.45M	21.68	50.00	-28.32	Neutral	-
Mode 2	Pass	QP	213.137k	49.94	63.07	-13.13	Line	-
Mode 2	Pass	AV	213.137k	28.42	53.07	-24.65	Line	-
Mode 2	Pass	QP	315.182k	49.53	59.82	-10.29	Line	-
Mode 2	Pass	AV	315.182k	26.46	49.82	-23.36	Line	-
Mode 2	Pass	QP	538.12k	37.22	56.00	-18.78	Line	-
Mode 2	Pass	AV	538.12k	24.20	46.00	-21.80	Line	-
Mode 2	Pass	QP	1.023M	37.68	56.00	-18.32	Line	-
Mode 2	Pass	AV	1.023M	21.76	46.00	-24.24	Line	-
Mode 2	Pass	QP	2.211M	32.27	56.00	-23.73	Line	-
Mode 2	Pass	AV	2.211M	21.62	46.00	-24.38	Line	-
Mode 2	Pass	QP	7.501M	25.12	60.00	-34.88	Line	-
Mode 2	Pass	AV	7.501M	19.02	50.00	-30.98	Line	-
Mode 2	Pass	QP	220.053k	50.37	62.81	-12.44	Neutral	-
Mode 2	Pass	AV	220.053k	28.93	52.81	-23.88	Neutral	-
Mode 2	Pass	QP	304.059k	49.43	60.13	-10.70	Neutral	-
Mode 2	Pass	AV	304.059k	27.02	50.13	-23.11	Neutral	-
Mode 2	Pass	QP	402.085k	42.76	57.82	-15.06	Neutral	-
Mode 2	Pass	AV	402.085k	27.06	47.82	-20.76	Neutral	-
Mode 2	Pass	QP	527.486k	43.44	56.00	-12.56	Neutral	-
Mode 2	Pass	AV	527.486k	30.72	46.00	-15.28	Neutral	-
Mode 2	Pass	QP	7.652M	25.11	60.00	-34.89	Neutral	-
Mode 2	Pass	AV	7.652M	19.02	50.00	-30.98	Neutral	-
Mode 2	Pass	QP	15.512M	29.82	60.00	-30.18	Neutral	-
Mode 2	Pass	AV	15.512M	21.63	50.00	-28.37	Neutral	-

Conducted Emissions at Powerline_Mode 1



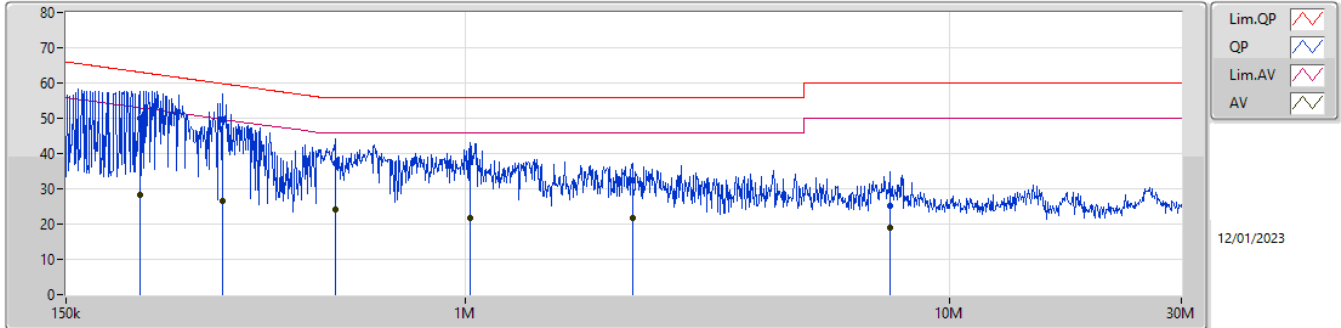
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	210.599k	49.67	63.19	-13.52	19.65	Line	-	30.02	9.69	0.03	9.93
AV	210.599k	28.67	53.19	-24.52	19.65	Line	-	9.02	9.69	0.03	9.93
QP	302.848k	47.76	60.17	-12.41	19.67	Line	-	28.09	9.68	0.04	9.95
AV	302.848k	25.50	50.17	-24.67	19.67	Line	-	5.83	9.68	0.04	9.95
QP	318.98k	48.12	59.73	-11.61	19.67	Line	-	28.45	9.68	0.04	9.95
AV	318.98k	25.43	49.73	-24.30	19.67	Line	-	5.76	9.68	0.04	9.95
QP	1.015M	37.93	56.00	-18.07	19.67	Line	-	18.26	9.68	0.05	9.94
AV	1.015M	22.39	46.00	-23.61	19.67	Line	-	2.72	9.68	0.05	9.94
QP	1.923M	31.34	56.00	-24.66	19.72	Line	-	11.62	9.70	0.08	9.94
AV	1.923M	21.99	46.00	-24.01	19.72	Line	-	2.27	9.70	0.08	9.94
QP	7.531M	25.24	60.00	-34.76	19.89	Line	-	5.35	9.78	0.16	9.95
AV	7.531M	19.29	50.00	-30.71	19.89	Line	-	-0.60	9.78	0.16	9.95

Conducted Emissions at Powerline_Mode 1



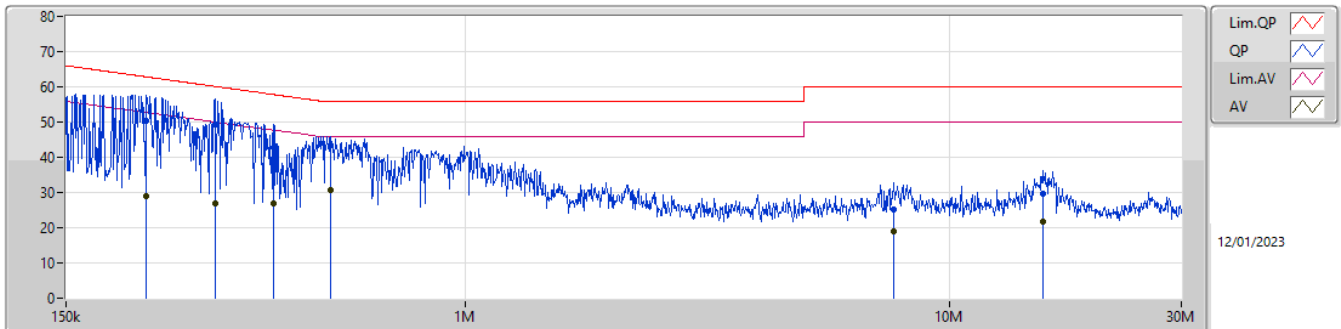
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	171.806k	48.71	64.87	-16.16	19.69	Neutral	-	29.02	9.73	0.03	9.93
AV	171.806k	28.26	54.87	-26.61	19.69	Neutral	-	8.57	9.73	0.03	9.93
QP	276.28k	44.18	60.93	-16.75	19.69	Neutral	-	24.49	9.72	0.03	9.94
AV	276.28k	24.82	50.93	-26.11	19.69	Neutral	-	5.13	9.72	0.03	9.94
QP	626.268k	40.41	56.00	-15.59	19.71	Neutral	-	20.70	9.72	0.04	9.95
AV	626.268k	25.28	46.00	-20.72	19.71	Neutral	-	5.57	9.72	0.04	9.95
QP	987.197k	35.96	56.00	-20.04	19.72	Neutral	-	16.24	9.73	0.05	9.94
AV	987.197k	20.93	46.00	-25.07	19.72	Neutral	-	1.21	9.73	0.05	9.94
QP	7.622M	25.18	60.00	-34.82	19.97	Neutral	-	5.21	9.85	0.17	9.95
AV	7.622M	18.84	50.00	-31.16	19.97	Neutral	-	-1.13	9.85	0.17	9.95
QP	15.45M	29.69	60.00	-30.31	20.16	Neutral	-	9.53	9.95	0.24	9.97
AV	15.45M	21.68	50.00	-28.32	20.16	Neutral	-	1.52	9.95	0.24	9.97

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	213.137k	49.94	63.07	-13.13	19.65	Line	-	30.29	9.69	0.03	9.93
AV	213.137k	28.42	53.07	-24.65	19.65	Line	-	8.77	9.69	0.03	9.93
QP	315.182k	49.53	59.82	-10.29	19.67	Line	-	29.86	9.68	0.04	9.95
AV	315.182k	26.46	49.82	-23.36	19.67	Line	-	6.79	9.68	0.04	9.95
QP	538.12k	37.22	56.00	-18.78	19.67	Line	-	17.55	9.68	0.04	9.95
AV	538.12k	24.20	46.00	-21.80	19.67	Line	-	4.53	9.68	0.04	9.95
QP	1.023M	37.68	56.00	-18.32	19.67	Line	-	18.01	9.68	0.05	9.94
AV	1.023M	21.76	46.00	-24.24	19.67	Line	-	2.09	9.68	0.05	9.94
QP	2.211M	32.27	56.00	-23.73	19.73	Line	-	12.54	9.70	0.09	9.94
AV	2.211M	21.62	46.00	-24.38	19.73	Line	-	1.89	9.70	0.09	9.94
QP	7.501M	25.12	60.00	-34.88	19.89	Line	-	5.23	9.78	0.16	9.95
AV	7.501M	19.02	50.00	-30.98	19.89	Line	-	-0.87	9.78	0.16	9.95

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	220.053k	50.37	62.81	-12.44	19.68	Neutral	-	30.69	9.72	0.03	9.93
AV	220.053k	28.93	52.81	-23.88	19.68	Neutral	-	9.25	9.72	0.03	9.93
QP	304.059k	49.43	60.13	-10.70	19.71	Neutral	-	29.72	9.72	0.04	9.95
AV	304.059k	27.02	50.13	-23.11	19.71	Neutral	-	7.31	9.72	0.04	9.95
QP	402.085k	42.76	57.82	-15.06	19.72	Neutral	-	23.04	9.72	0.04	9.96
AV	402.085k	27.06	47.82	-20.76	19.72	Neutral	-	7.34	9.72	0.04	9.96
QP	527.486k	43.44	56.00	-12.56	19.71	Neutral	-	23.73	9.72	0.04	9.95
AV	527.486k	30.72	46.00	-15.28	19.71	Neutral	-	11.01	9.72	0.04	9.95
QP	7.652M	25.11	60.00	-34.89	19.97	Neutral	-	5.14	9.85	0.17	9.95
AV	7.652M	19.02	50.00	-30.98	19.97	Neutral	-	-0.95	9.85	0.17	9.95
QP	15.512M	29.82	60.00	-30.18	20.16	Neutral	-	9.66	9.95	0.24	9.97
AV	15.512M	21.63	50.00	-28.37	20.16	Neutral	-	1.47	9.95	0.24	9.97



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	935k	880.81k	881KF1D	926.75k	874.563k
BT-EDR(2Mbps)	1.504M	1.374M	1M37G1D	1.425M	1.372M
BT-EDR(3Mbps)	1.474M	1.367M	1M37G1D	1.419M	1.364M

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	926.75k	874.563k
2440MHz	Pass	Inf	935k	880.81k
2480MHz	Pass	Inf	935k	879.56k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.504M	1.374M
2440MHz	Pass	Inf	1.425M	1.373M
2480MHz	Pass	Inf	1.458M	1.372M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.474M	1.366M
2440MHz	Pass	Inf	1.469M	1.364M
2480MHz	Pass	Inf	1.419M	1.367M

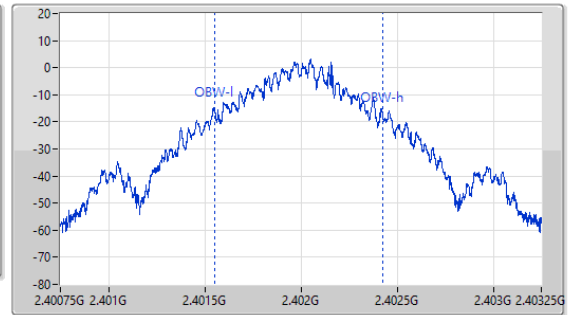
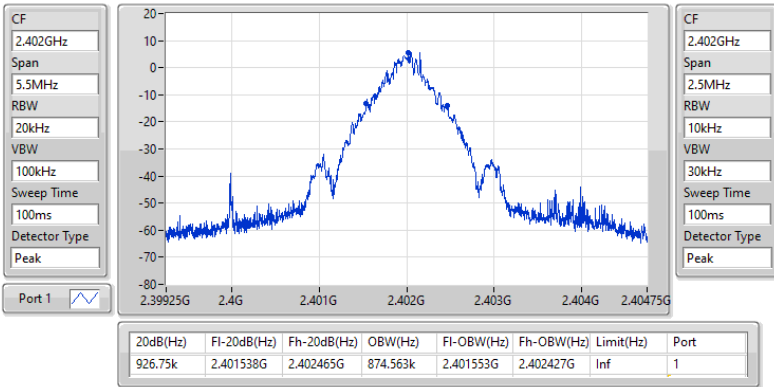
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_BT-BR(1Mbps)

EBW-FS

2402MHz

06/03/2023

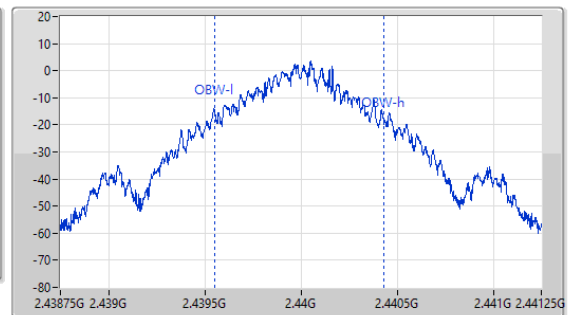
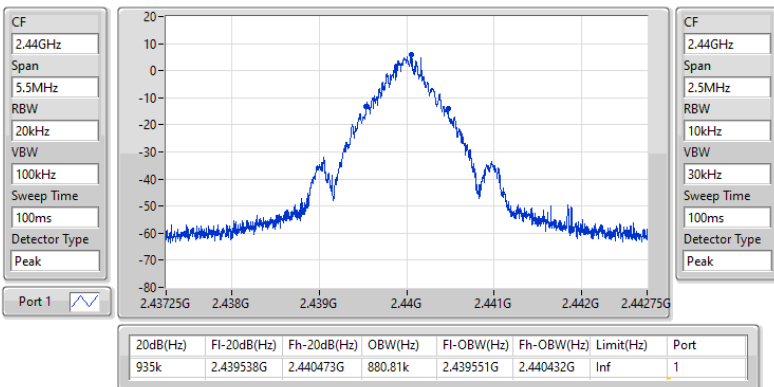


2.4-2.4835GHz_BT-BR(1Mbps)

EBW-FS

2440MHz

06/03/2023

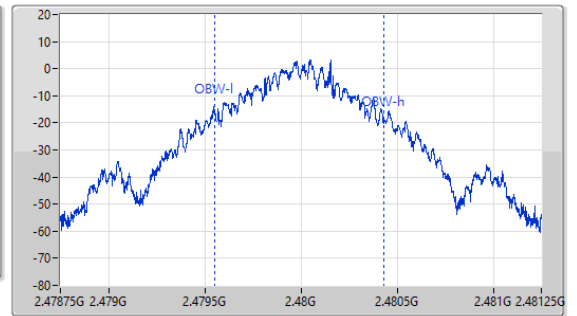
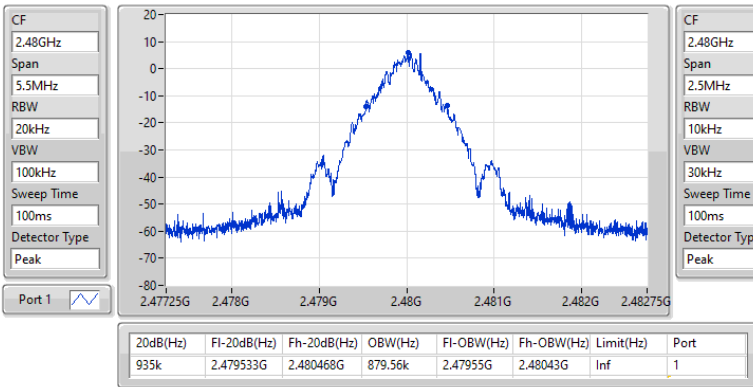


2.4-2.4835GHz_BT-BR(1Mbps)

EBW-FS

2480MHz

06/03/2023

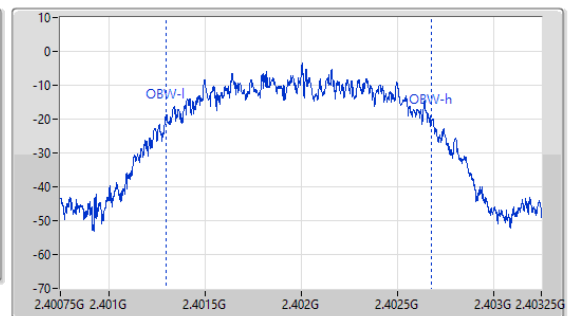
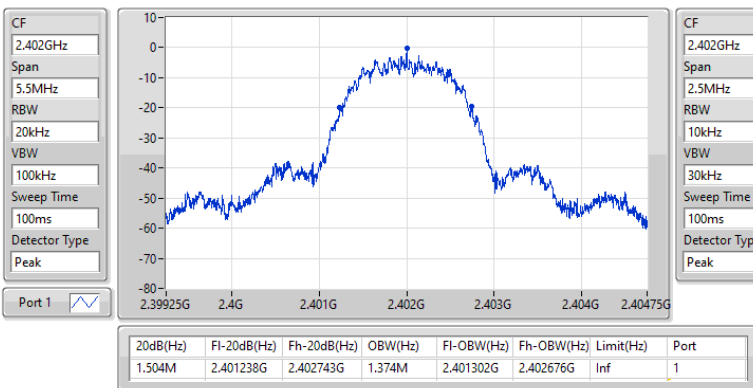


2.4-2.4835GHz_BT-EDR(2Mbps)

EBW-FS

2402MHz

13/03/2023

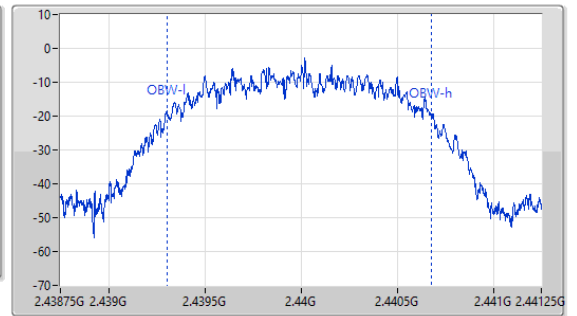
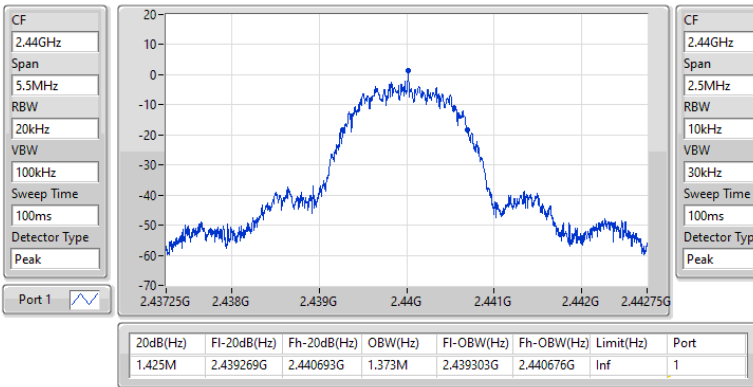


2.4-2.4835GHz_BT-EDR(2Mbps)

EBW-FS

2440MHz

13/03/2023

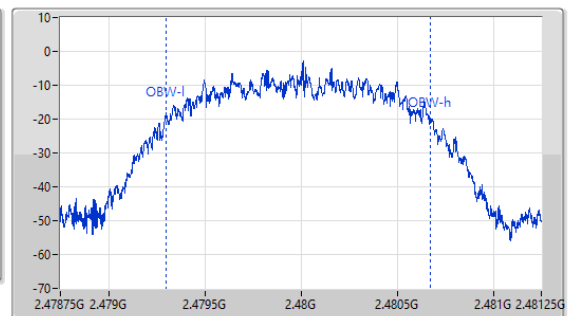
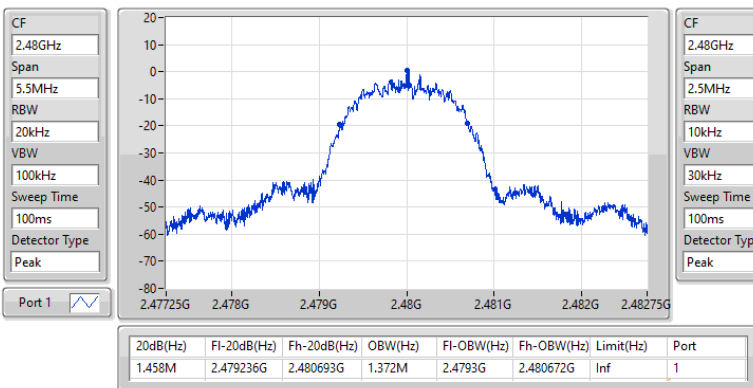


2.4-2.4835GHz_BT-EDR(2Mbps)

EBW-FS

2480MHz

13/03/2023

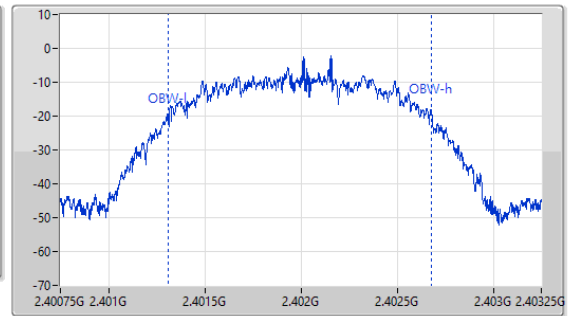
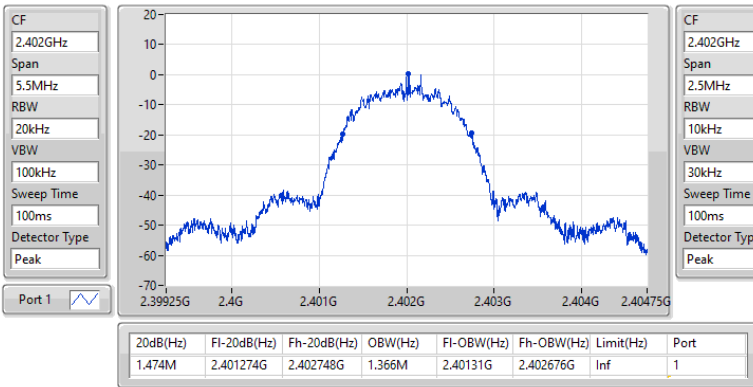


2.4-2.4835GHz_BT-EDR(3Mbps)

EBW-FS

2402MHz

13/03/2023

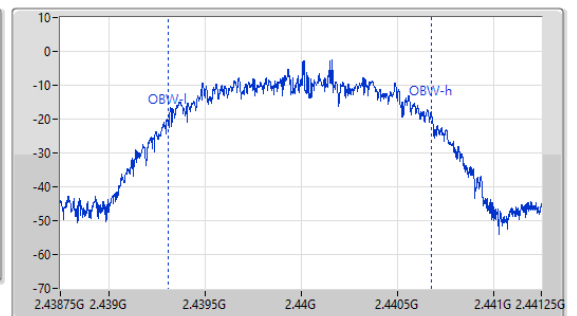
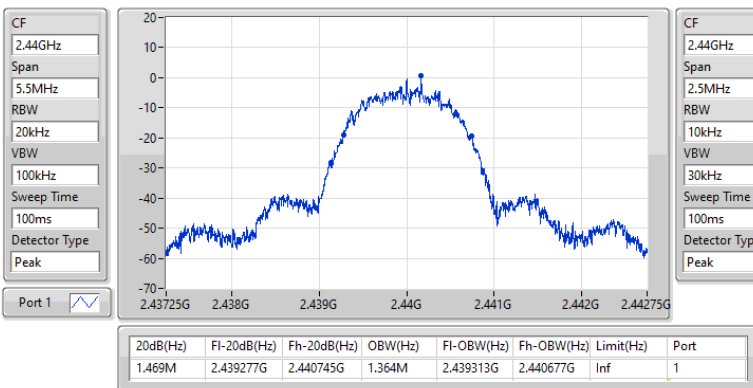


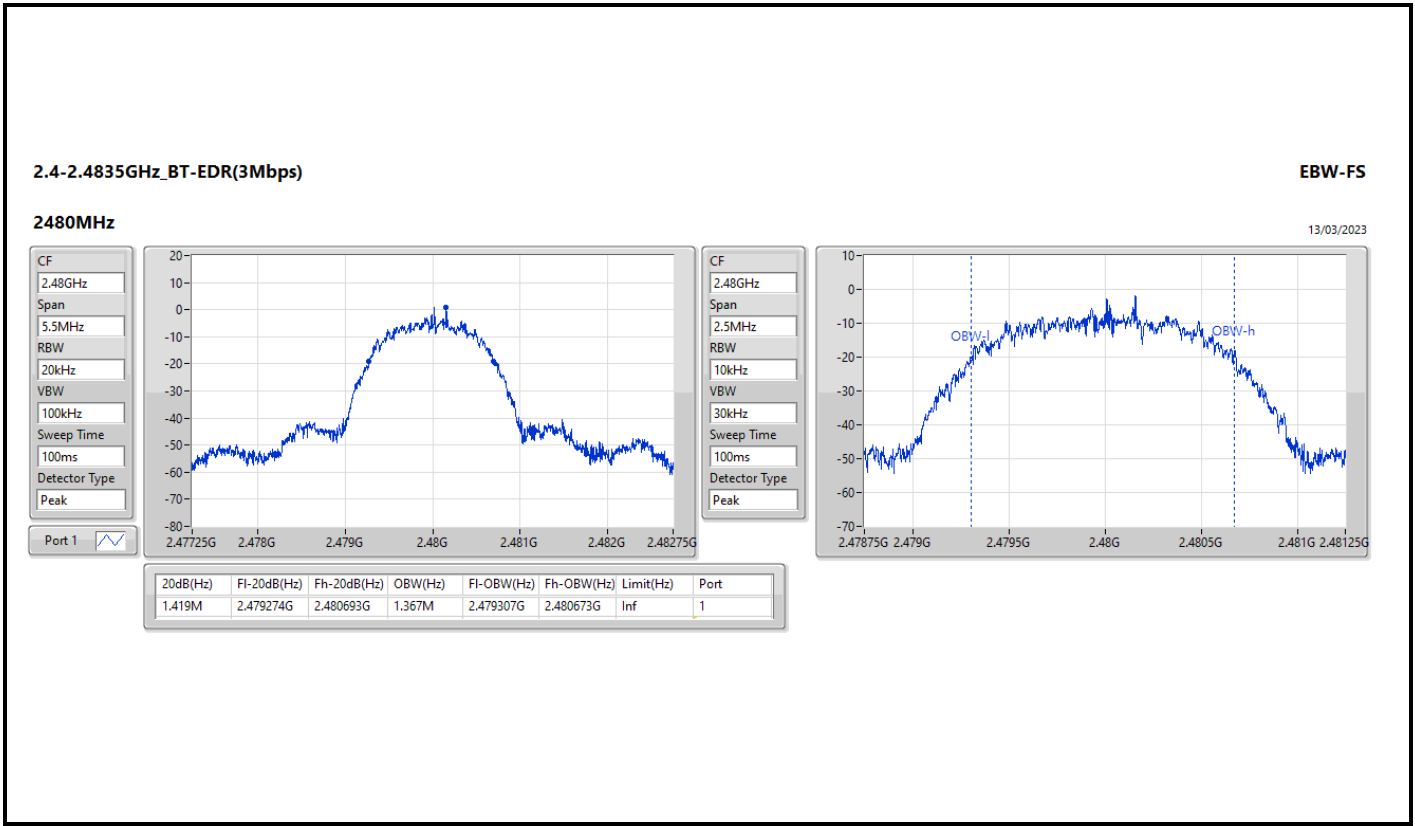
2.4-2.4835GHz_BT-EDR(3Mbps)

EBW-FS

2440MHz

13/03/2023





Note: Trace mode Max Hold.



Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.005M	999k
BT-EDR(2Mbps)	1.008M	999k
BT-EDR(3Mbps)	1.005M	997.5k



Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402005G	2.403004G	999k	617.2155k
2440MHz	Pass	2.440004G	2.441009G	1.005M	622.71k
2480MHz	Pass	2.479002G	2.480007G	1.005M	622.71k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402005G	2.403013G	1.008M	1.001664M
2440MHz	Pass	2.440007G	2.441013G	1.0065M	949.05k
2480MHz	Pass	2.479008G	2.480007G	999k	971.028k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402007G	2.403009G	1.002M	981.684k
2440MHz	Pass	2.440007G	2.441012G	1.005M	945.054k
2480MHz	Pass	2.479005G	2.480003G	997.5k	939.726k

2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.402G/2.403GHz

06/03/2023



2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

06/03/2023



2.4-2.4835GHz_BT-BR(1Mbps)

Channel Separation-FS

2.48G/2.479GHz

06/03/2023



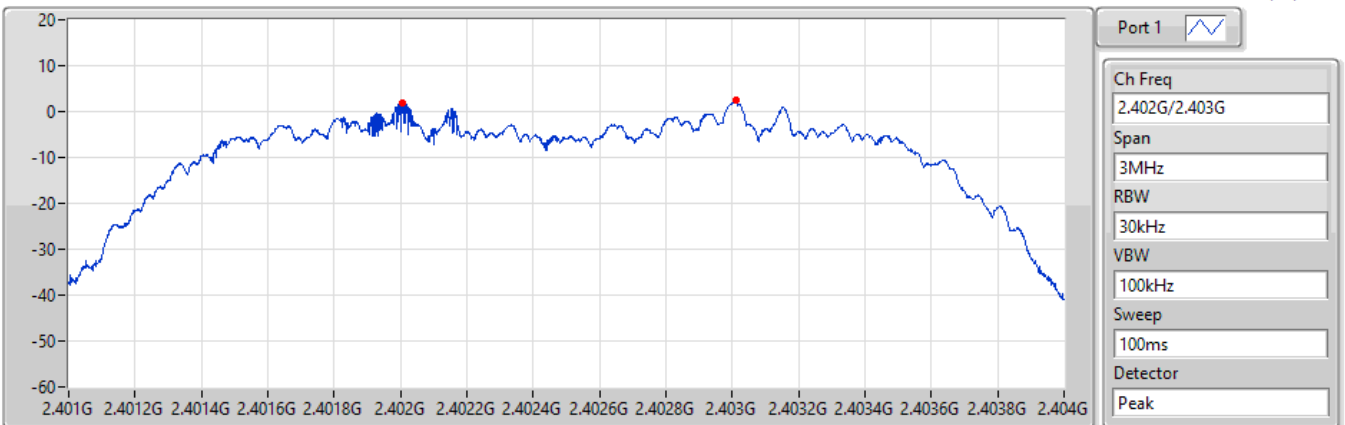
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479002G	2.480007G	1.005M	622.71k

2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.402G/2.403GHz

13/03/2023



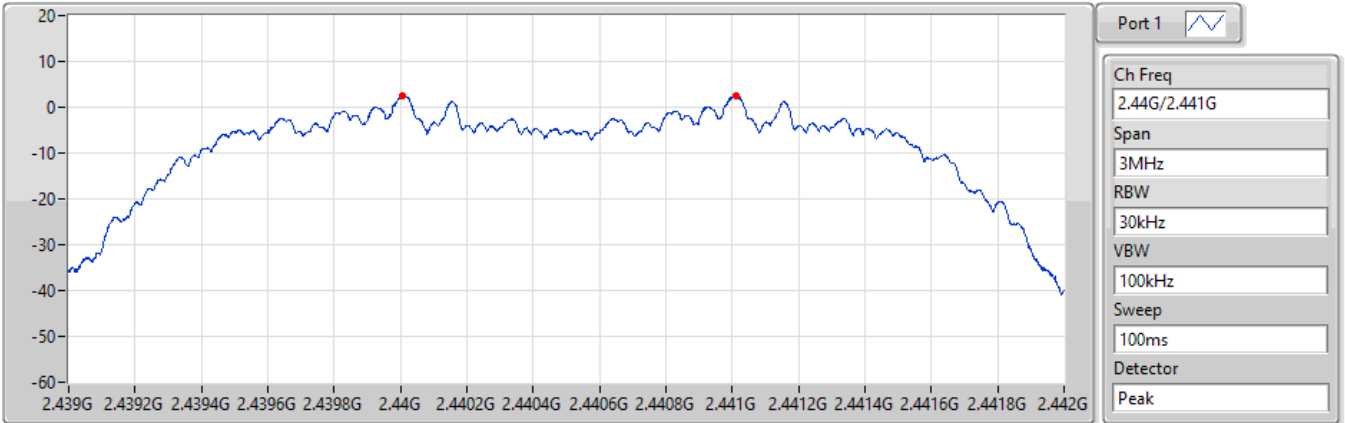
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402005G	2.403013G	1.008M	1.001664M

2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.44G/2.441GHz

13/03/2023



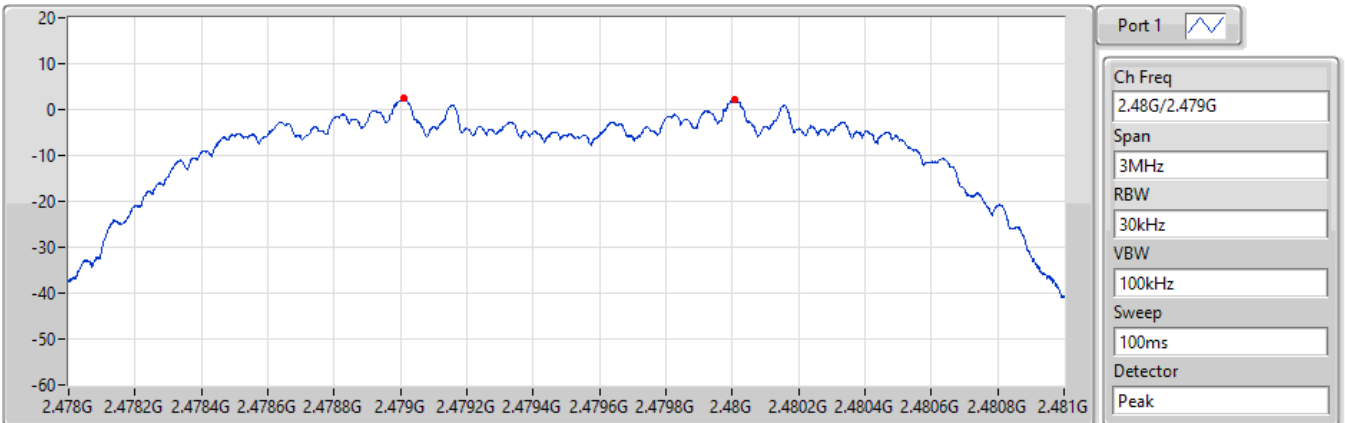
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440007G	2.441013G	1.0065M	949.05k

2.4-2.4835GHz_BT-EDR(2Mbps)

Channel Separation-FS

2.48G/2.479GHz

13/03/2023



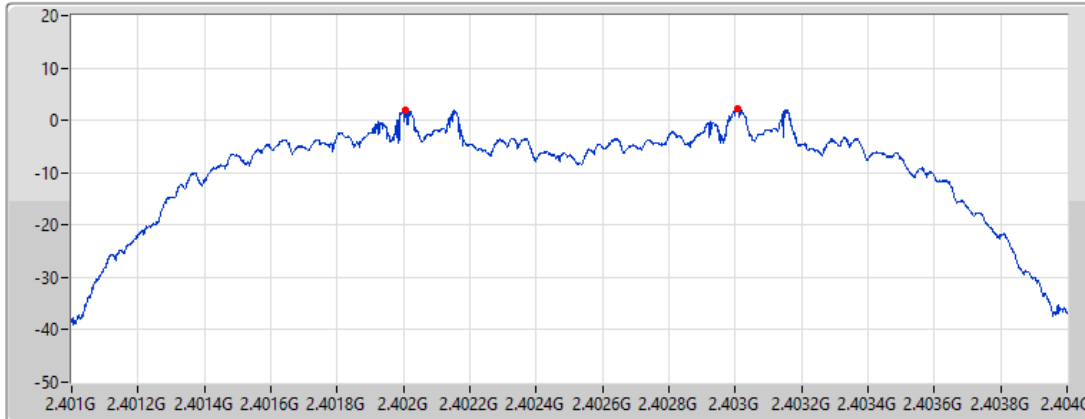
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479008G	2.480007G	999k	971.028k


2.4-2.4835GHz_BT-EDR(3Mbps)

Channel Separation-FS

2.402G/2.403GHz

13/03/2023



Port 1 

Ch Freq
2.402G/2.403G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

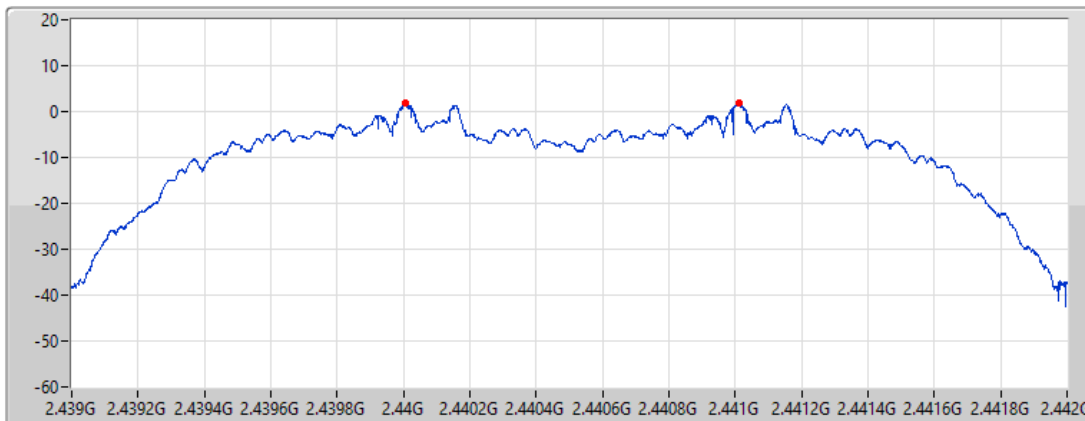
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402007G	2.403009G	1.002M	981.684k


2.4-2.4835GHz_BT-EDR(3Mbps)

Channel Separation-FS

2.44G/2.441GHz

06/03/2023



Port 1 

Ch Freq
2.44G/2.441G

Span
3MHz

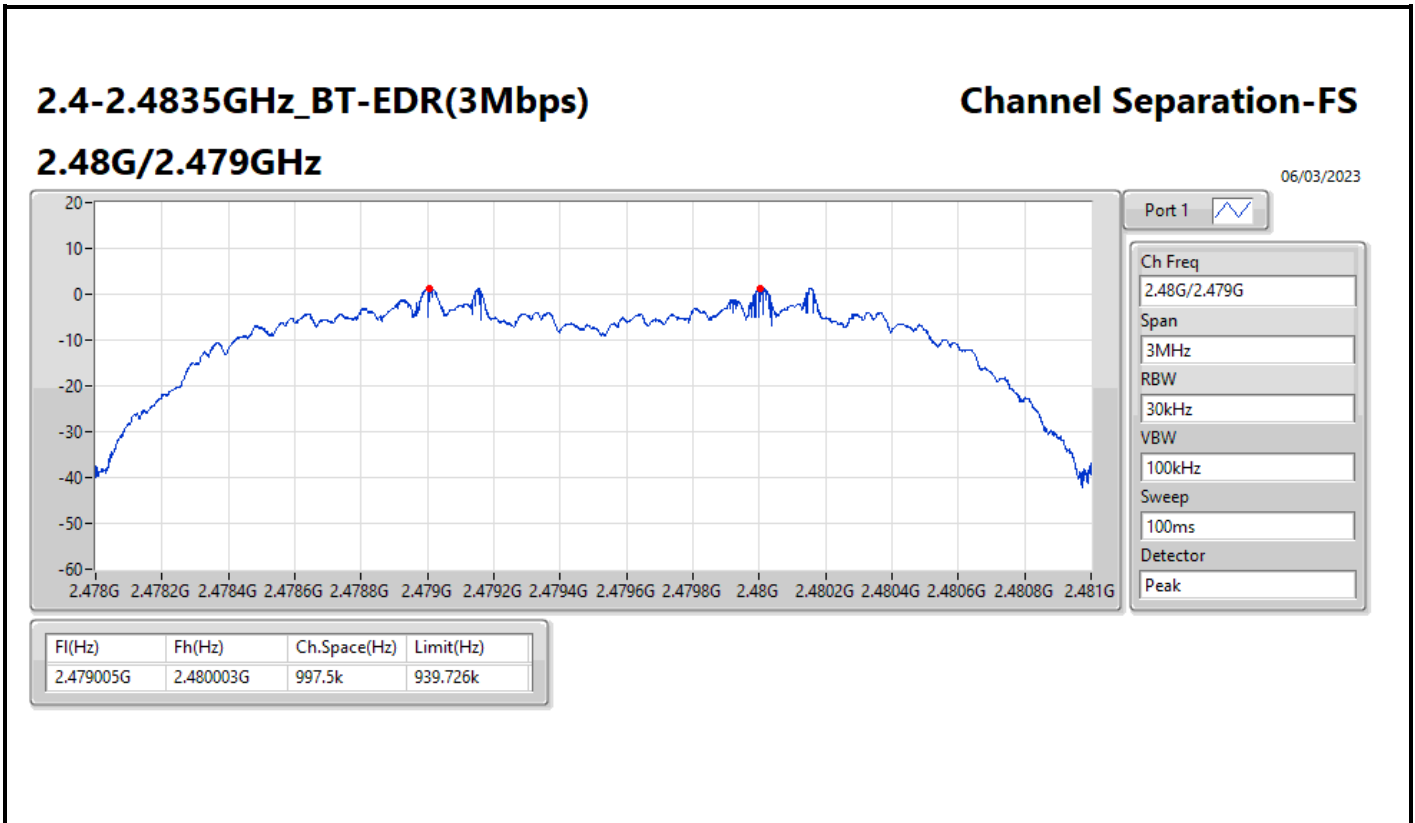
RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440007G	2.441012G	1.005M	945.054k



Note: Trace mode Max Hold.



Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.42	0.00875
BT-EDR(2Mbps)	8.23	0.00665
BT-EDR(3Mbps)	8.41	0.00693



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	4.57	9.05	21.00
2440MHz	Pass	4.57	9.42	21.00
2480MHz	Pass	4.57	9.42	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	4.57	7.95	21.00
2440MHz	Pass	4.57	8.23	21.00
2480MHz	Pass	4.57	8.21	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	4.57	8.12	21.00
2440MHz	Pass	4.57	8.41	21.00
2480MHz	Pass	4.57	8.35	21.00

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



Summary

Mode	Total Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.28	0.00847
BT-EDR(2Mbps)	5.73	0.00374
BT-EDR(3Mbps)	5.74	0.00375



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	4.57	8.91	21.00
2440MHz	Pass	4.57	9.28	21.00
2480MHz	Pass	4.57	9.27	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	4.57	5.42	21.00
2440MHz	Pass	4.57	5.73	21.00
2480MHz	Pass	4.57	5.63	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	4.57	5.43	21.00
2440MHz	Pass	4.57	5.74	21.00
2480MHz	Pass	4.57	5.66	21.00

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



Summary

Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79



Result

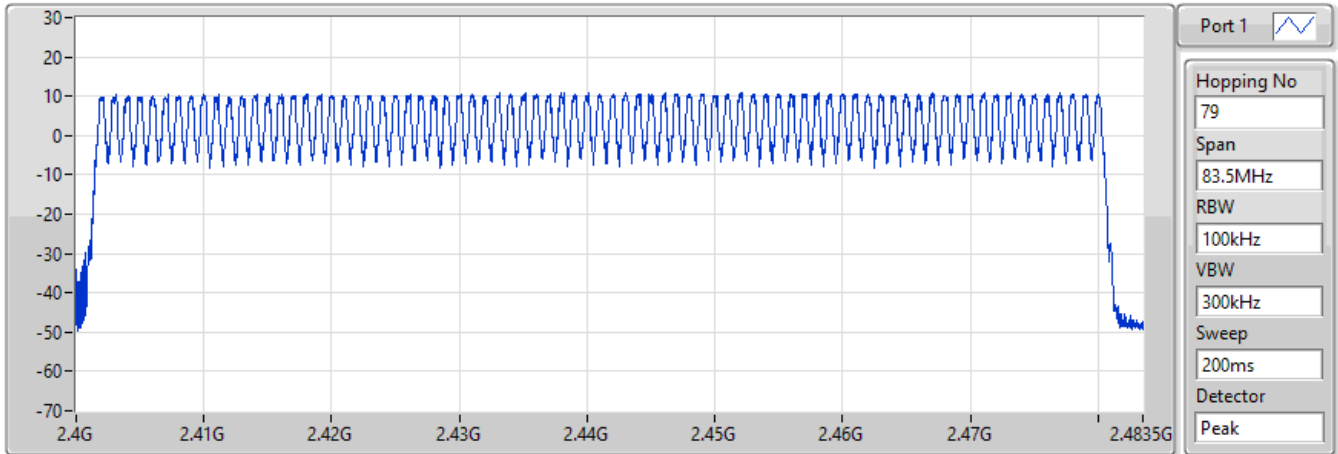
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

2.4-2.4835GHz_BT-BR(1Mbps)

Hopping-FS

2440MHz

06/03/2023



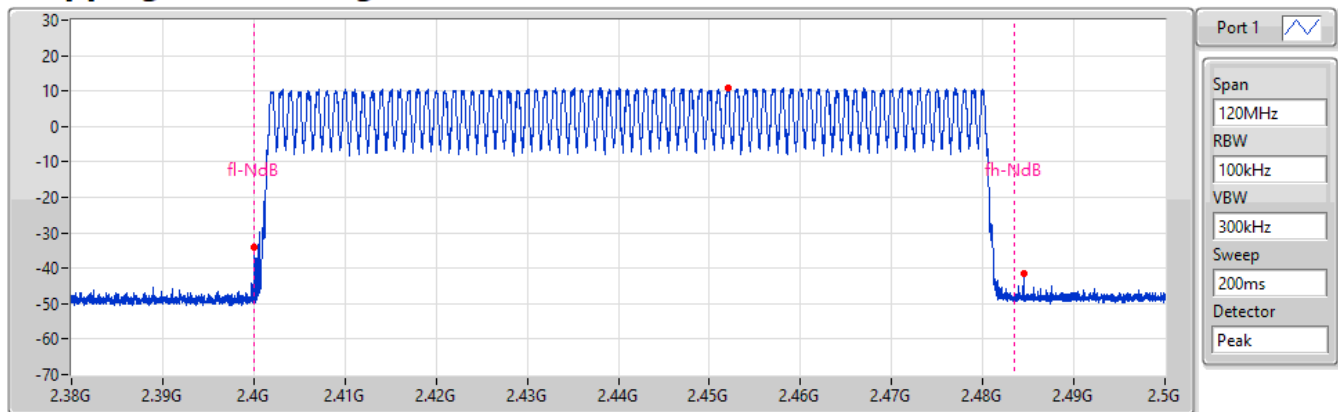
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

06/03/2023



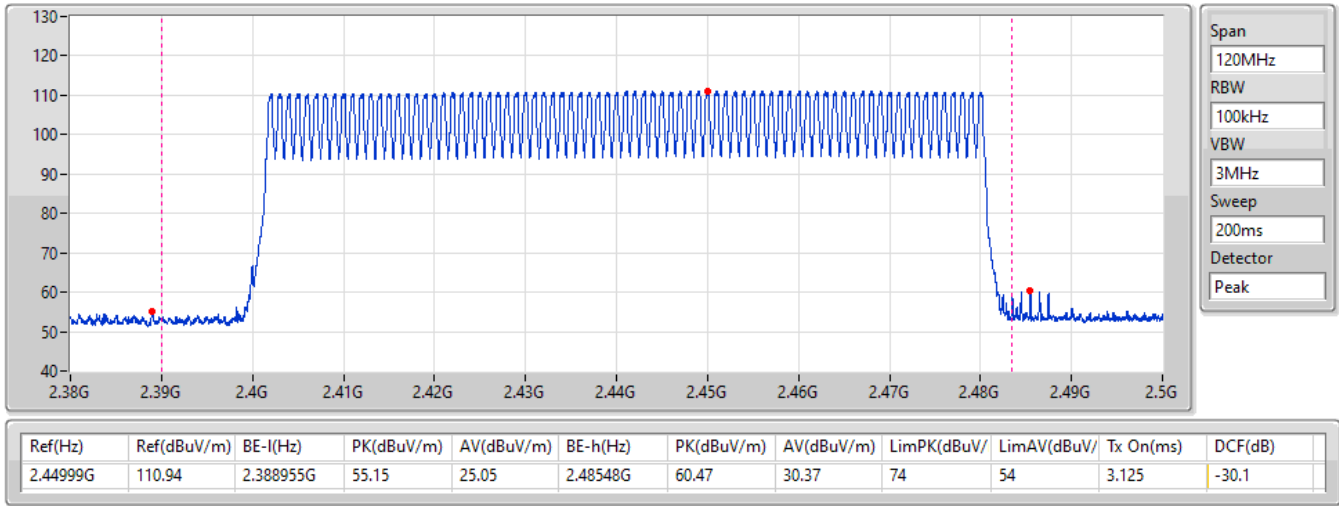
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-8.96	2.452G	11.04	2.399995G	-34.15	2.48449G	-41.52

2.4-2.4835GHz_BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

06/03/2023

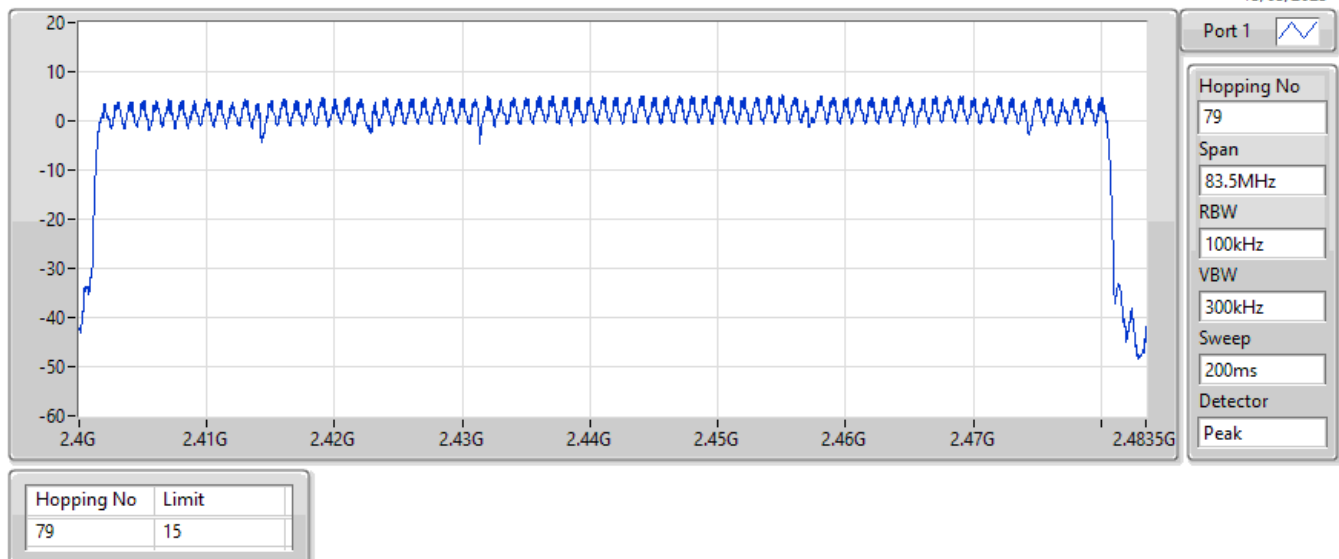


2.4-2.4835GHz_BT-EDR(2Mbps)

Hopping-FS

2440MHz

13/03/2023

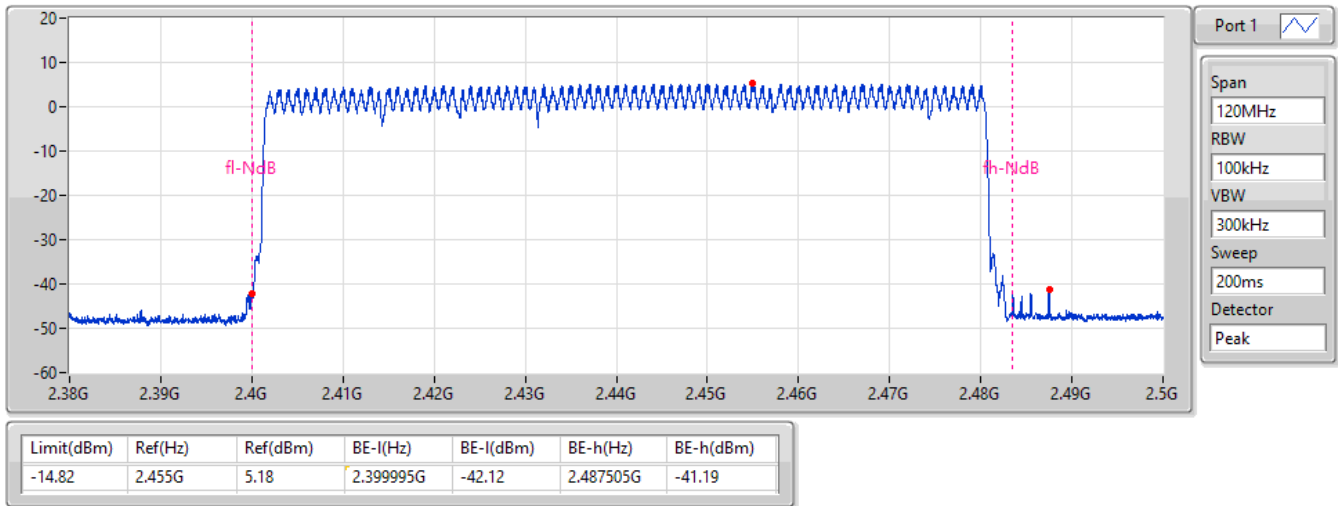


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

13/03/2023

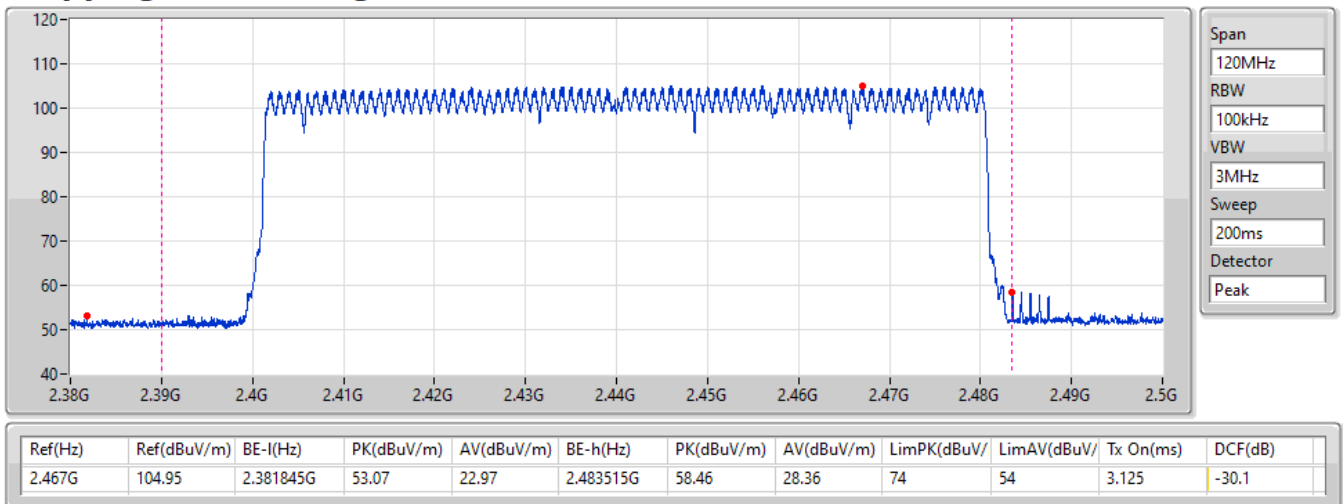


2.4-2.4835GHz_BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

13/03/2023

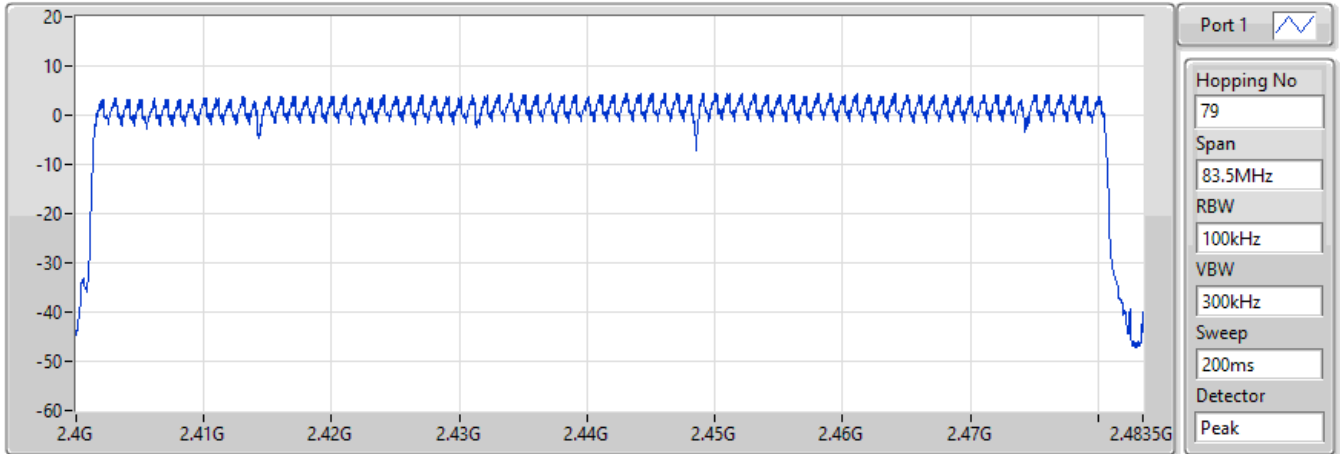


2.4-2.4835GHz_BT-EDR(3Mbps)

Hopping-FS

2440MHz

06/03/2023



Port 1

Hopping No
79

Span
83.5MHz

RBW
100kHz

VBW
300kHz

Sweep
200ms

Detector
Peak

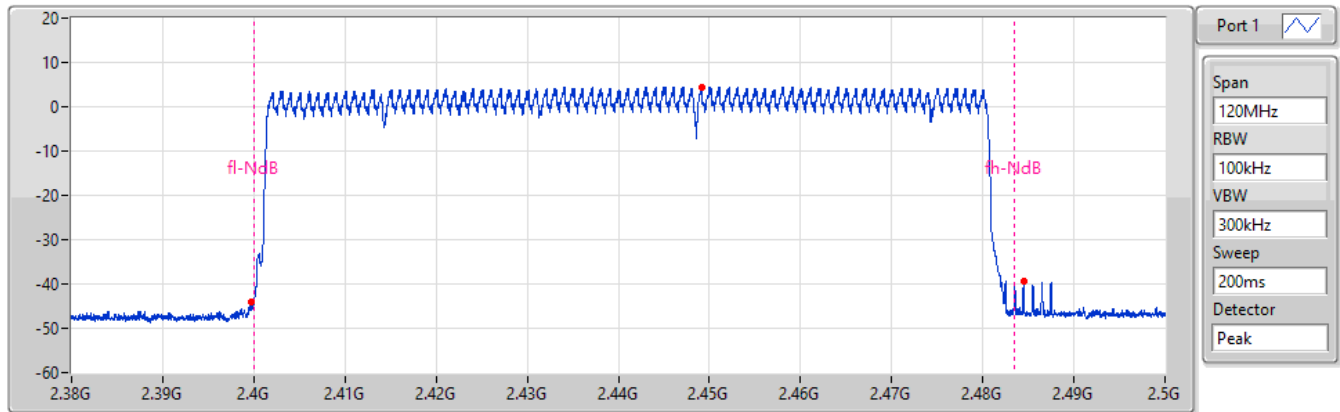
Hopping No	Limit
79	15

2.4-2.4835GHz_BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

06/03/2023



Port 1

Span
120MHz

RBW
100kHz

VBW
300kHz

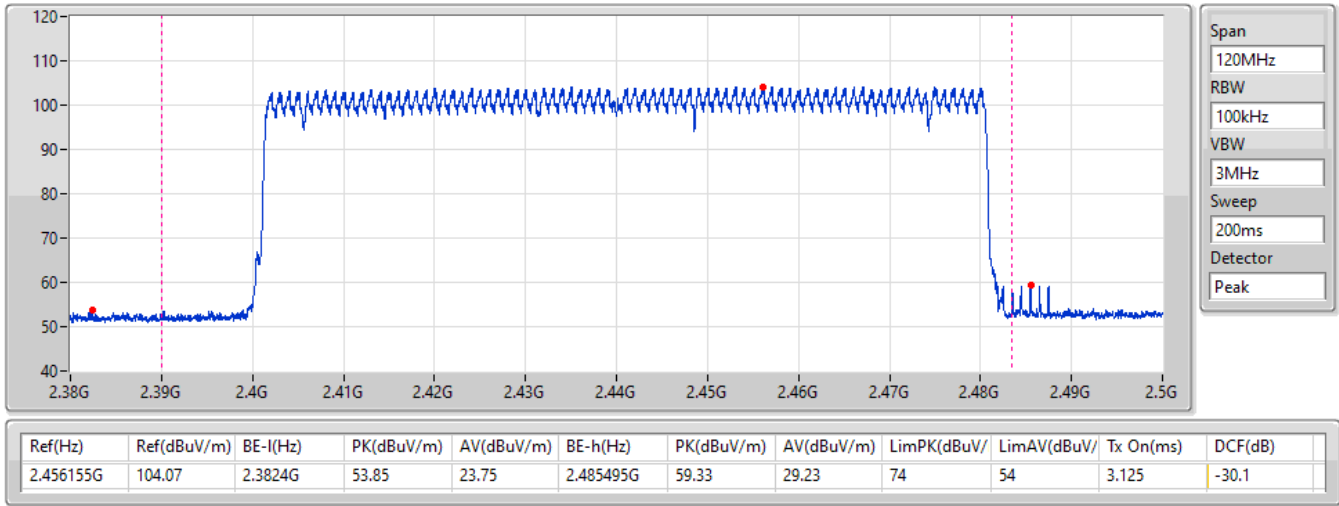
Sweep
200ms

Detector
Peak

Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-15.67	2.44915G	4.33	2.399755G	-44.06	2.48449G	-39.25

2.4-2.4835GHz_BT-EDR(3Mbps)
2440MHz
Hopping Ch Bandedge (Restricted Band)

06/03/2023



Note: Trace mode Max Hold.



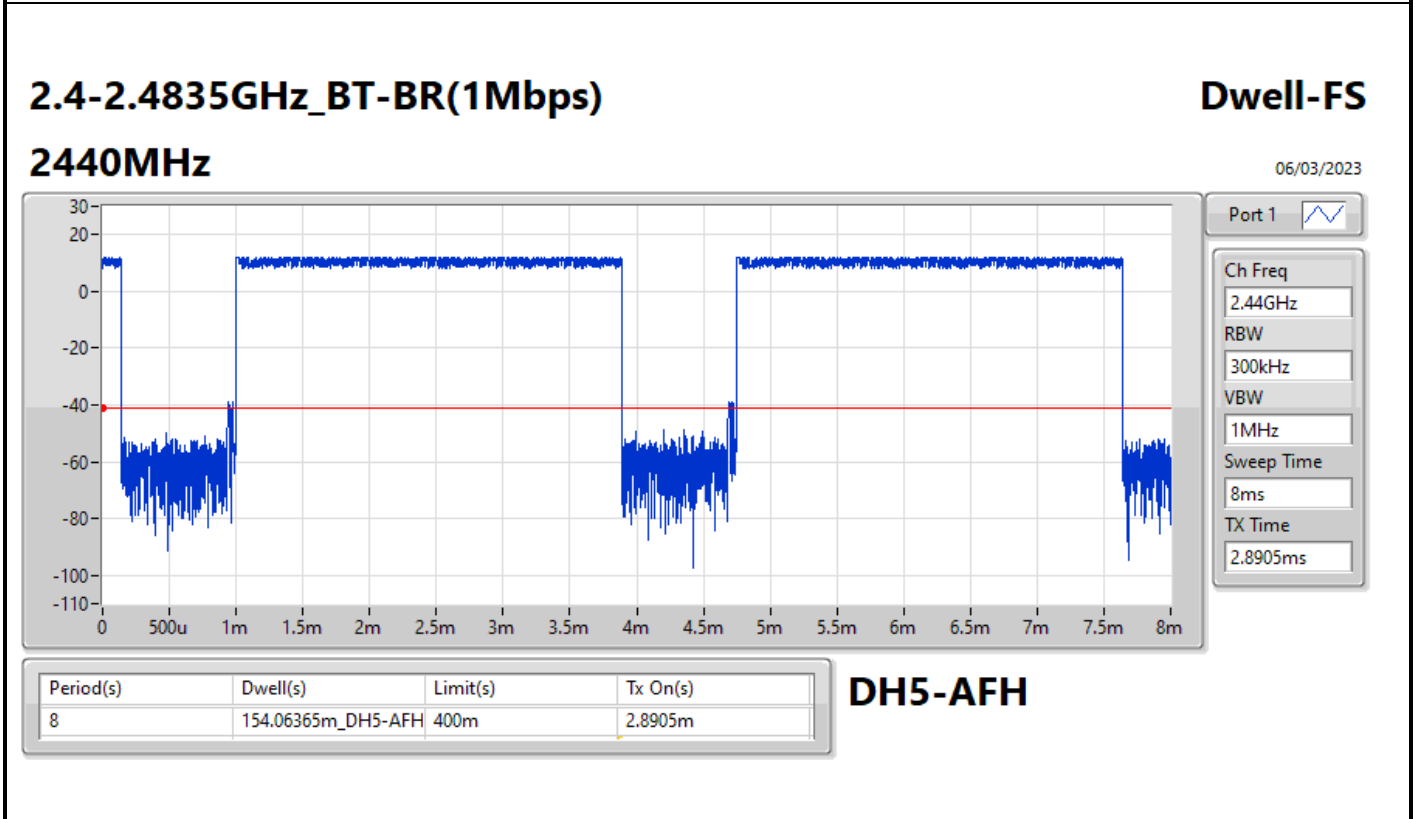
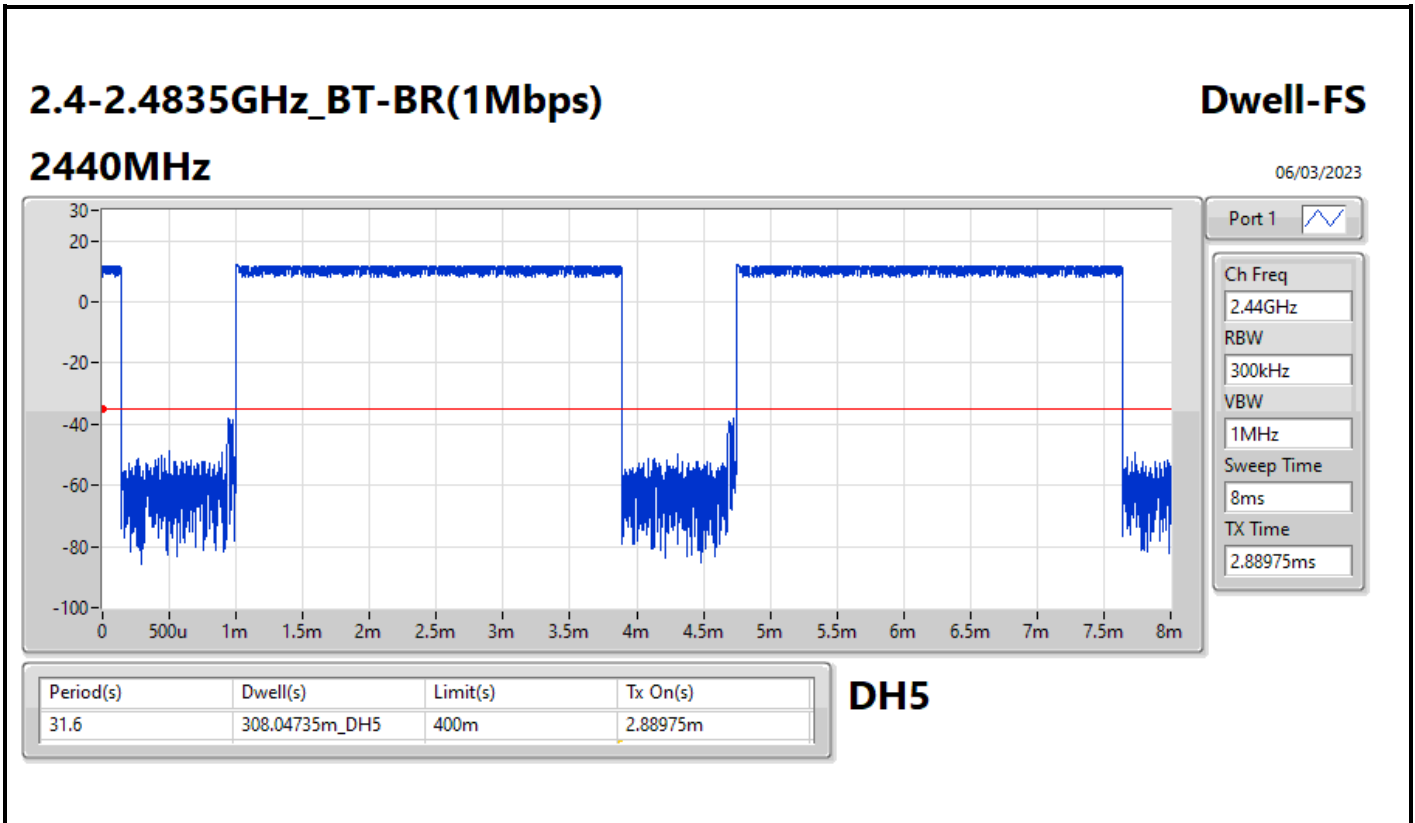
Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.04735m_DH5
BT-EDR(2Mbps)	308.36715m_DH5
BT-EDR(3Mbps)	309.53975m_DH5



Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On
					(s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.04735m_DH5	400m	2.88975m
2440MHz	Pass	8	154.06365m_DH5-AFH	400m	2.8905m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.36715m_DH5	400m	2.89275m
2440MHz	Pass	8	154.1969m_DH5-AFH	400m	2.893m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	309.53975m_DH5	400m	2.90375m
2440MHz	Pass	8	154.743225m_DH5-AFH	400m	2.90325m



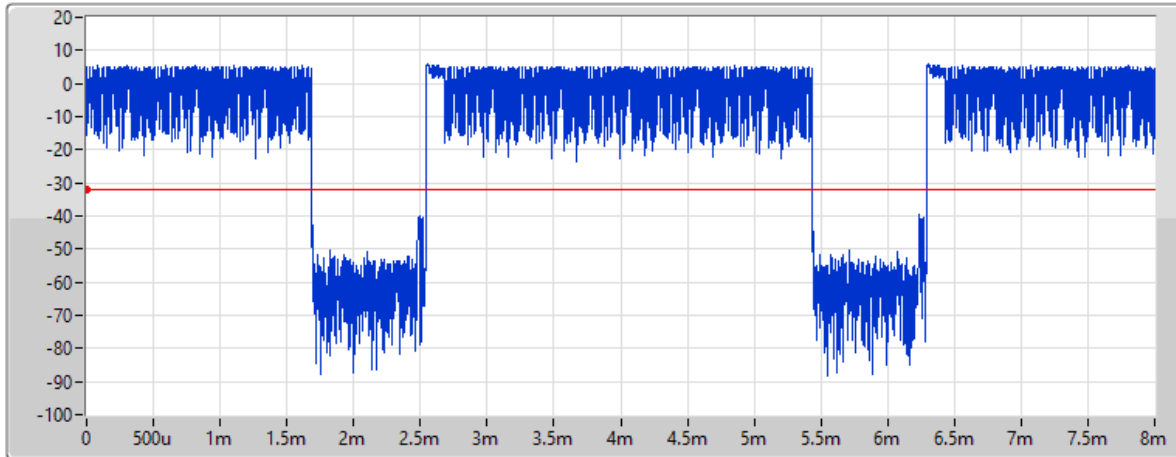
Note: Trace mode Clear Write.

2.4-2.4835GHz_BT-EDR(2Mbps)

Dwell-FS

2440MHz

13/03/2023



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.89275ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.36715m_DH5	400m	2.89275m

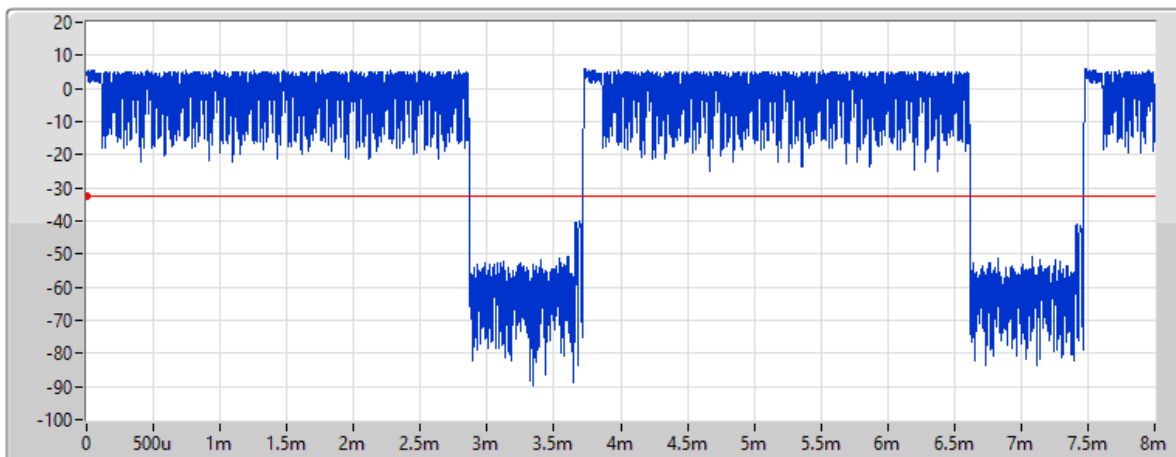
DH5


2.4-2.4835GHz_BT-EDR(2Mbps)

Dwell-FS

2440MHz

13/03/2023



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

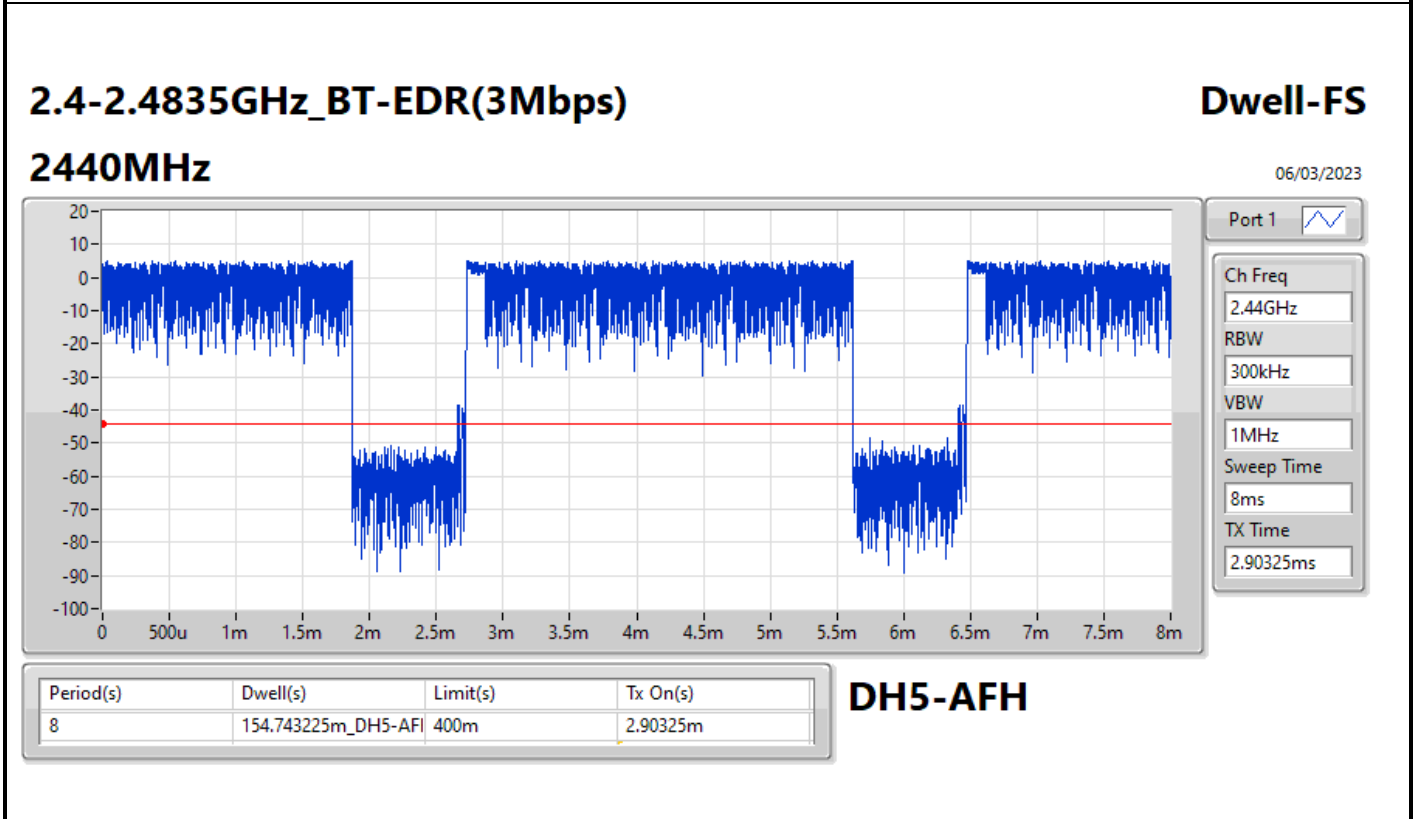
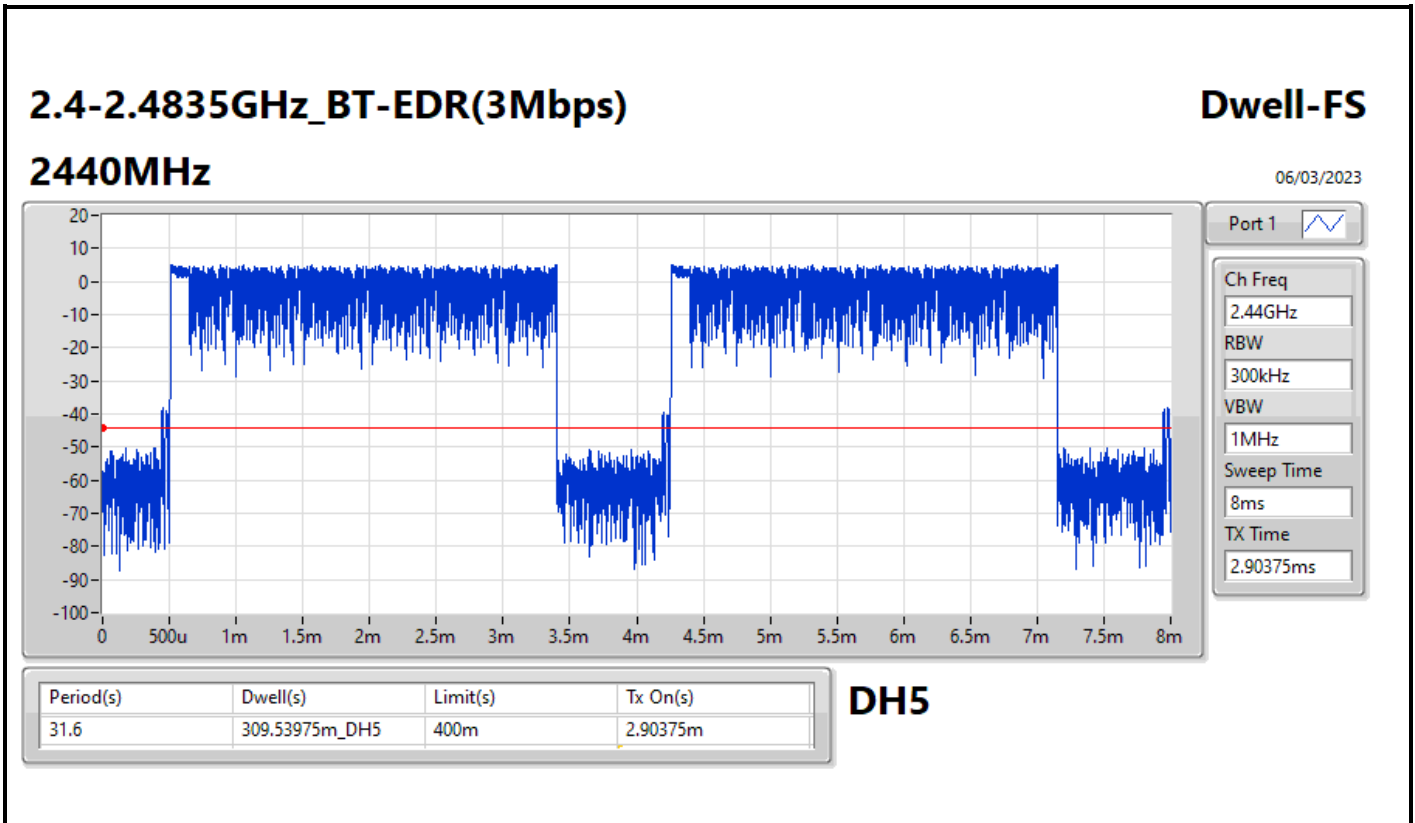
Sweep Time
8ms

TX Time
2.893ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.1969m_DH5-AFH	400m	2.893m

DH5-AFH

Note: Trace mode Clear Write.



Note: Trace mode Clear Write.

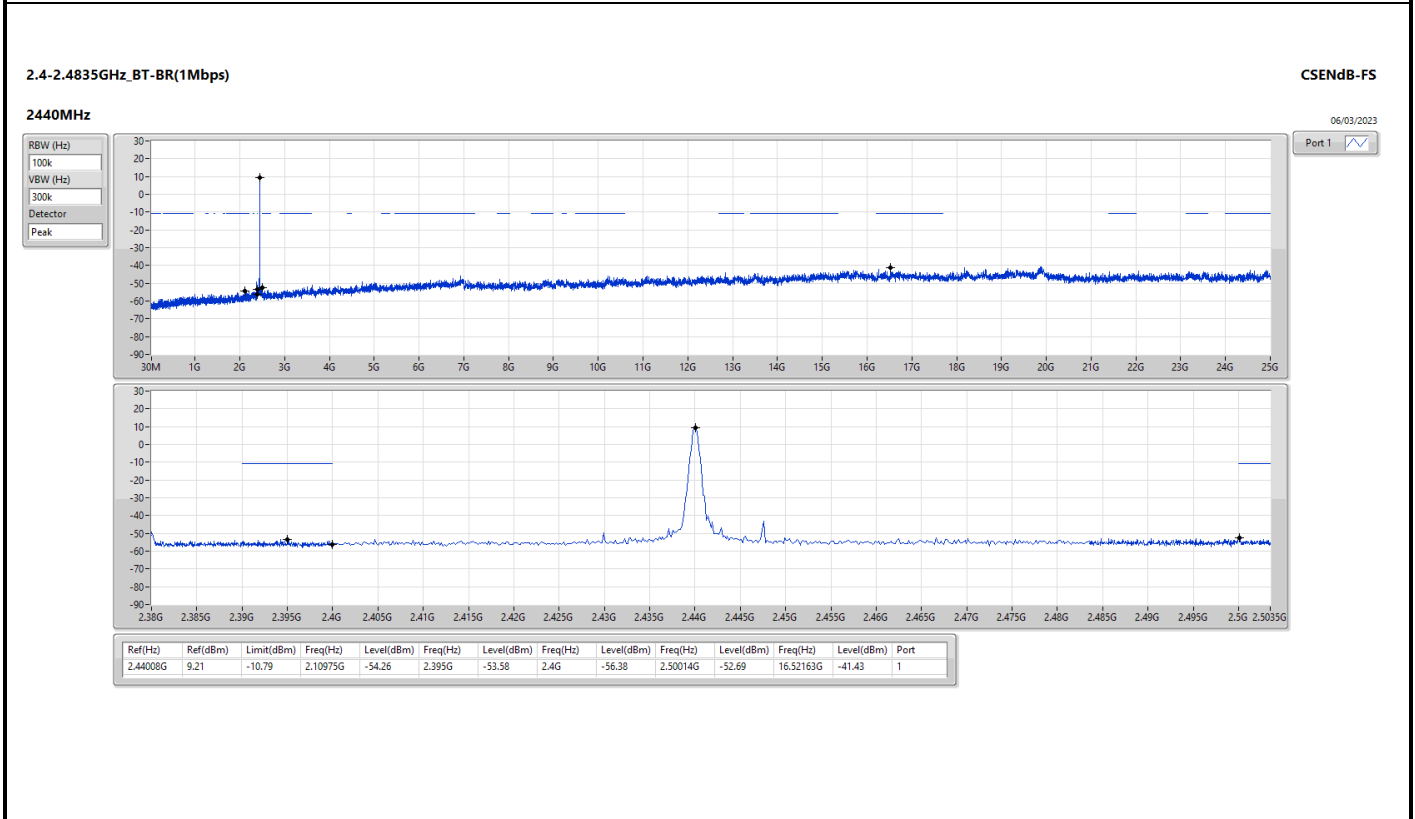
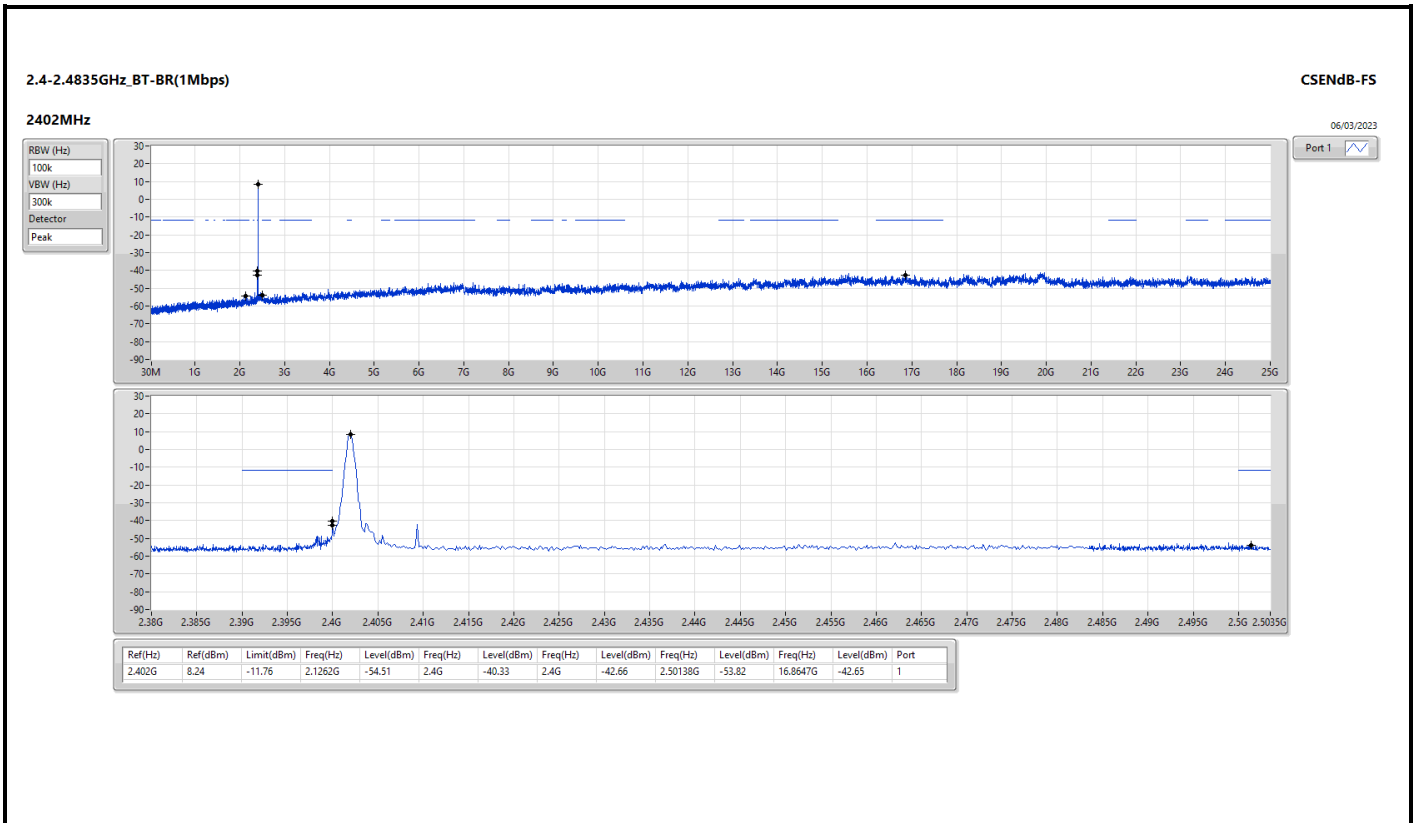


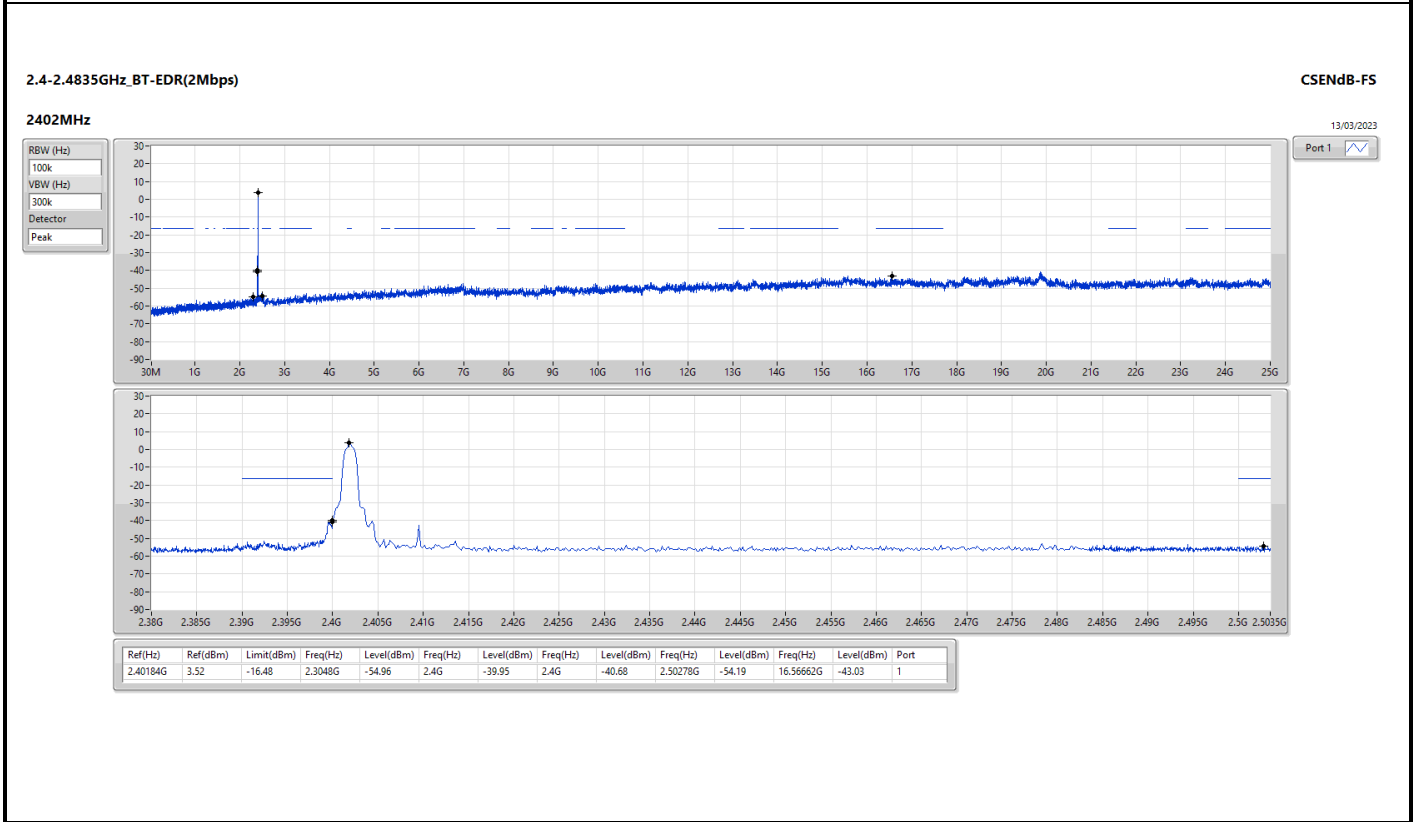
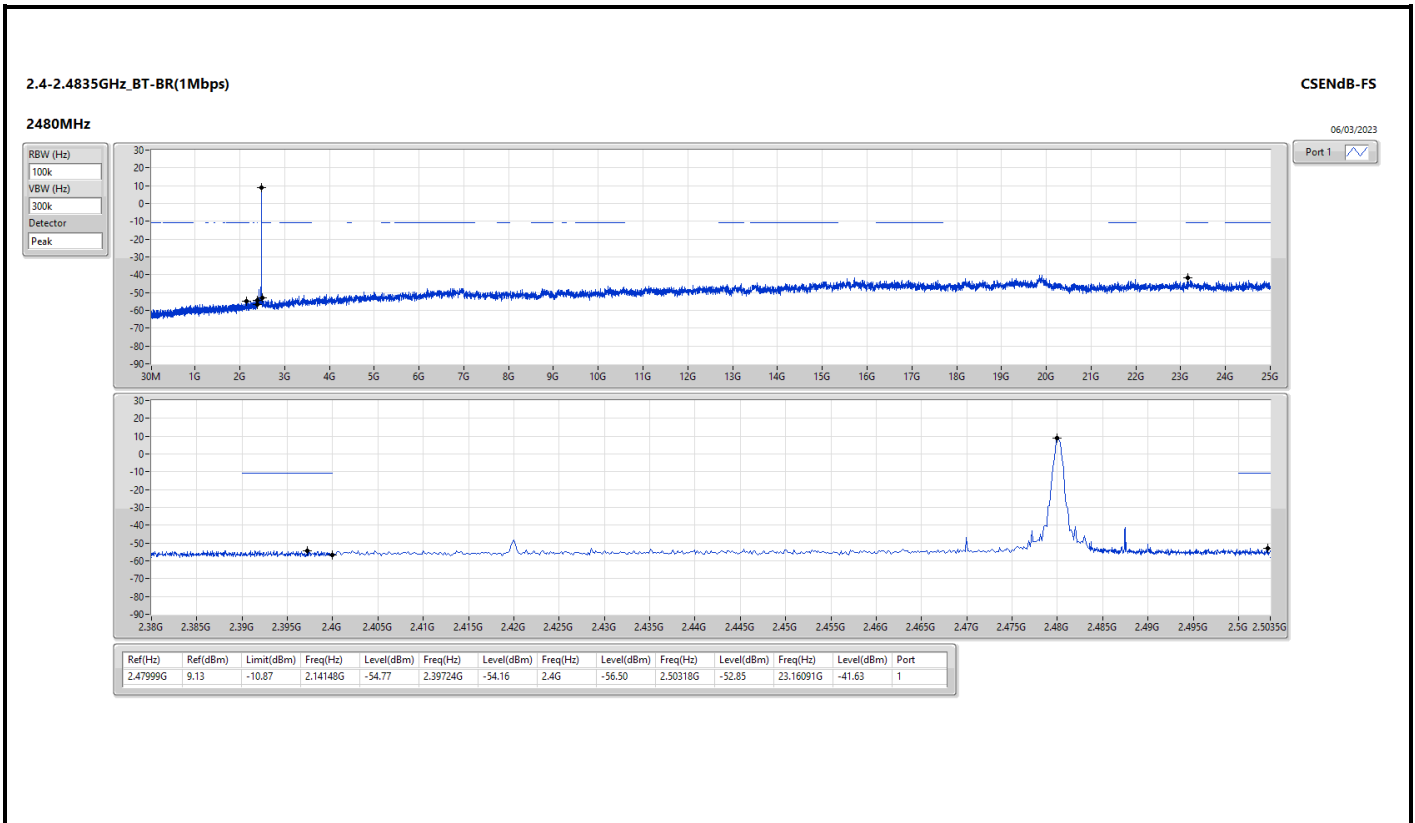
Summary

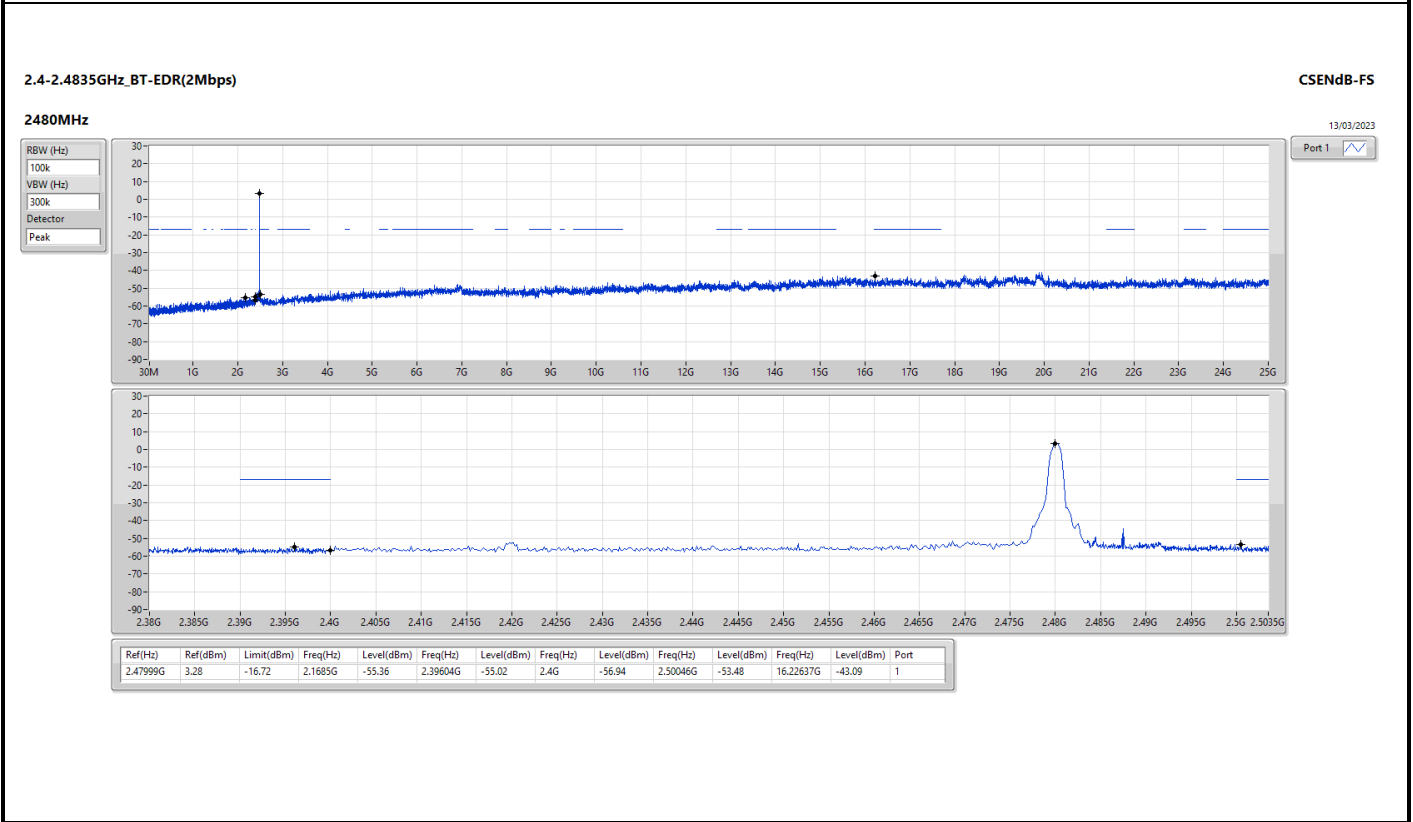
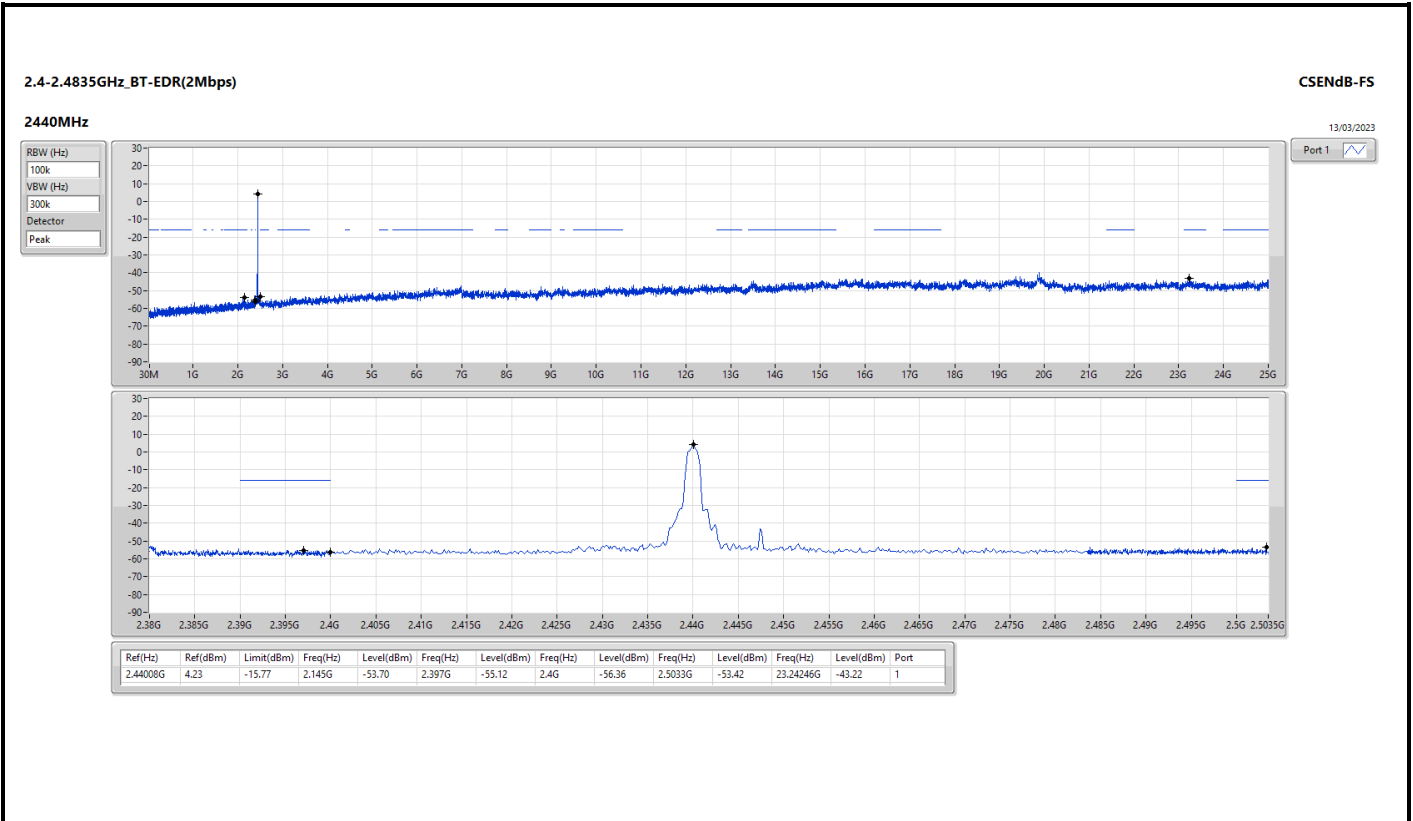
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.402G	8.24	-11.76	2.1262G	-54.51	2.4G	-40.33	2.4G	-42.66	2.50138G	-53.82	16.8647G	-42.65	1
BT-EDR(2Mbps)	Pass	2.40184G	3.52	-16.48	2.3048G	-54.96	2.4G	-39.95	2.4G	-40.68	2.50278G	-54.19	16.56662G	-43.03	1
BT-EDR(3Mbps)	Pass	2.402G	4.23	-15.77	2.3001G	-55.20	2.39944G	-40.51	2.4G	-42.58	2.50246G	-53.55	17.00531G	-42.56	1

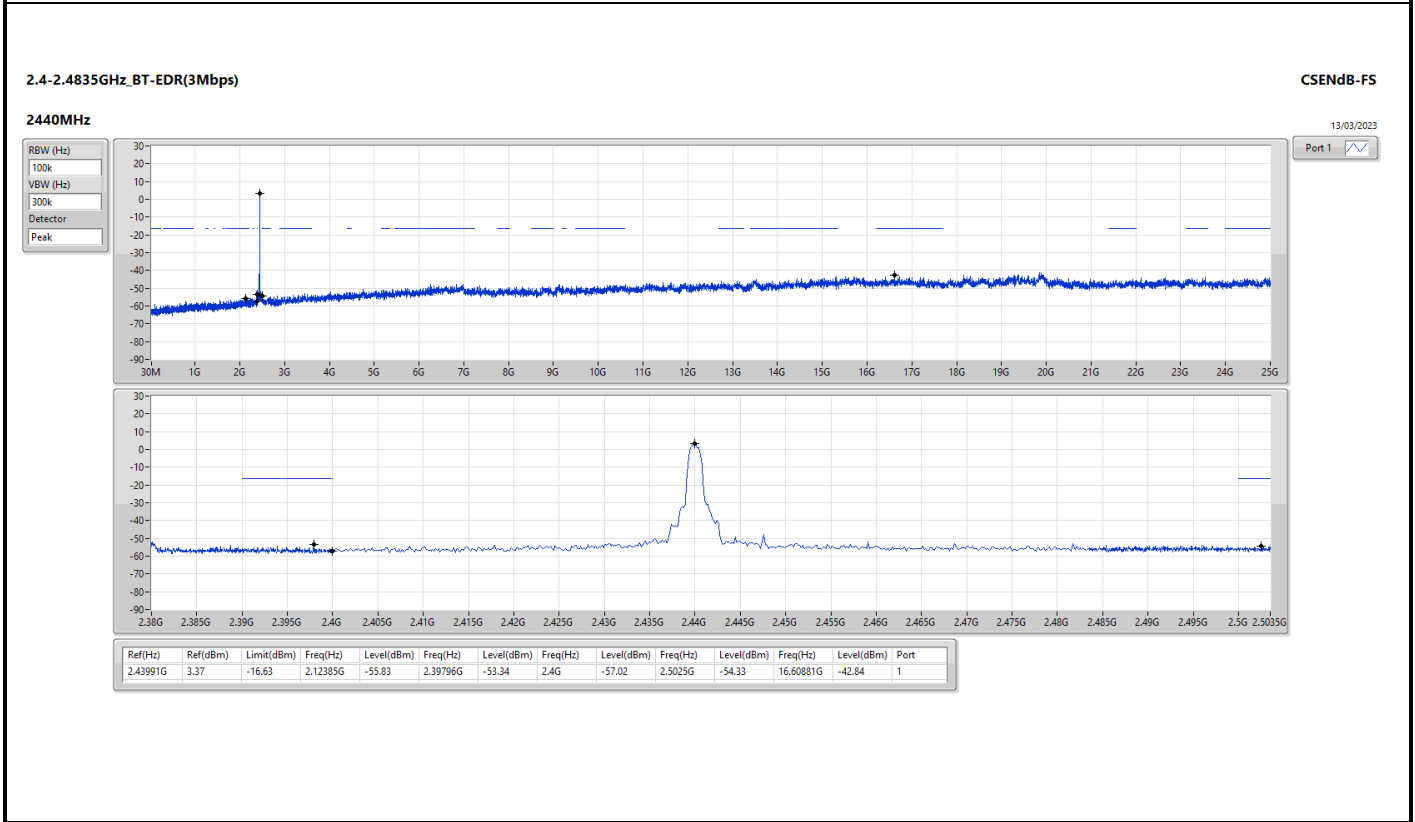
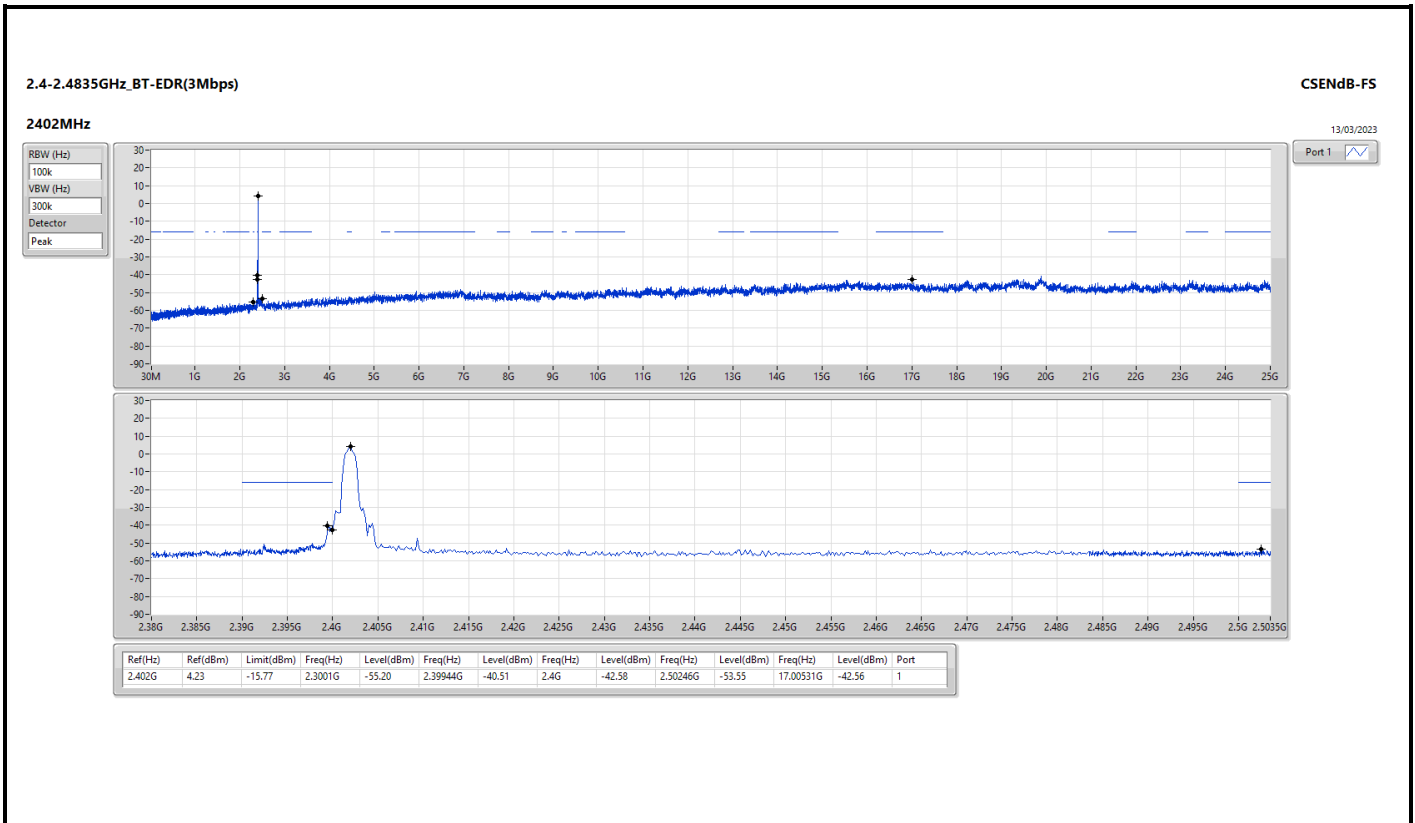
Result

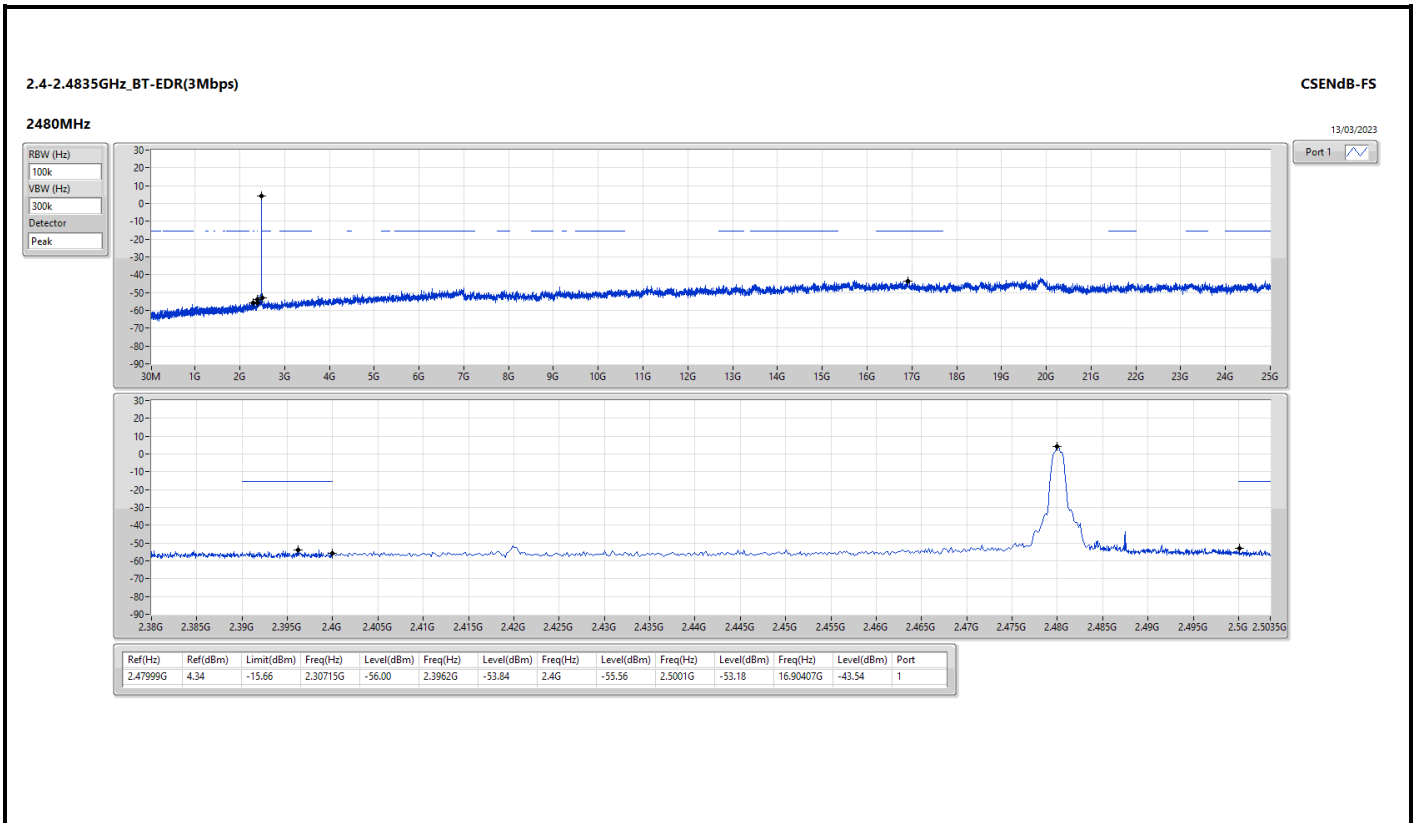
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	8.24	-11.76	2.1262G	-54.51	2.4G	-40.33	2.4G	-42.66	2.50138G	-53.82	16.8647G	-42.65	1
2440MHz	Pass	2.44008G	9.21	-10.79	2.10975G	-54.26	2.395G	-53.58	2.4G	-56.38	2.50014G	-52.69	16.52163G	-41.43	1
2480MHz	Pass	2.47999G	9.13	-10.87	2.14148G	-54.77	2.39724G	-54.16	2.4G	-56.50	2.50318G	-52.85	23.16091G	-41.63	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	3.52	-16.48	2.3048G	-54.96	2.4G	-39.95	2.4G	-40.68	2.50278G	-54.19	16.56662G	-43.03	1
2440MHz	Pass	2.44008G	4.23	-15.77	2.145G	-53.70	2.397G	-55.12	2.4G	-56.36	2.5033G	-53.42	23.24246G	-43.22	1
2480MHz	Pass	2.47999G	3.28	-16.72	2.1685G	-55.36	2.39604G	-55.02	2.4G	-56.94	2.50046G	-53.48	16.22637G	-43.09	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	4.23	-15.77	2.3001G	-55.20	2.39944G	-40.51	2.4G	-42.58	2.50246G	-53.55	17.00531G	-42.56	1
2440MHz	Pass	2.43991G	3.37	-16.63	2.12385G	-55.83	2.39796G	-53.34	2.4G	-57.02	2.5025G	-54.33	16.60881G	-42.84	1
2480MHz	Pass	2.47999G	4.34	-15.66	2.30715G	-56.00	2.3962G	-53.84	2.4G	-55.56	2.5001G	-53.18	16.90407G	-43.54	1











Note: Trace mode Clear Write.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-EDR(3Mbps)	Pass	PK	30M	35.80	40.00	-4.20	3	Horizontal	360	1.00

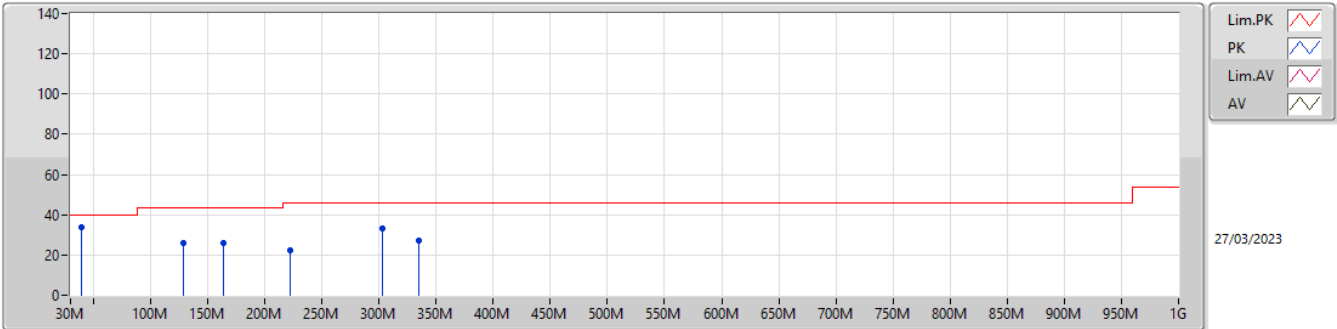


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2480MHz	Pass	PK	39.7M	33.67	40.00	-6.33	-7.75	3	Vertical	0	1.00
2480MHz	Pass	PK	128.94M	25.72	43.50	-17.78	-9.00	3	Vertical	0	1.00
2480MHz	Pass	PK	163.86M	25.90	43.50	-17.60	-10.76	3	Vertical	0	1.00
2480MHz	Pass	PK	222.06M	22.44	46.00	-23.56	-10.66	3	Vertical	0	1.00
2480MHz	Pass	PK	303.54M	33.26	46.00	-12.74	-6.18	3	Vertical	0	1.00
2480MHz	Pass	PK	334.58M	27.43	46.00	-18.57	-5.81	3	Vertical	0	1.00
2480MHz	Pass	PK	30M	35.80	40.00	-4.20	-2.80	3	Horizontal	360	1.00
2480MHz	Pass	PK	47.46M	28.66	40.00	-11.34	-11.87	3	Horizontal	360	1.00
2480MHz	Pass	PK	161.92M	27.77	43.50	-15.73	-10.79	3	Horizontal	360	1.00
2480MHz	Pass	PK	222.06M	28.33	46.00	-17.67	-10.66	3	Horizontal	360	1.00
2480MHz	Pass	PK	301.6M	34.40	46.00	-11.60	-6.25	3	Horizontal	360	1.00
2480MHz	Pass	PK	342.34M	28.46	46.00	-17.54	-5.58	3	Horizontal	360	1.00

2.4-2.4835GHz_BT-EDR(3Mbps)

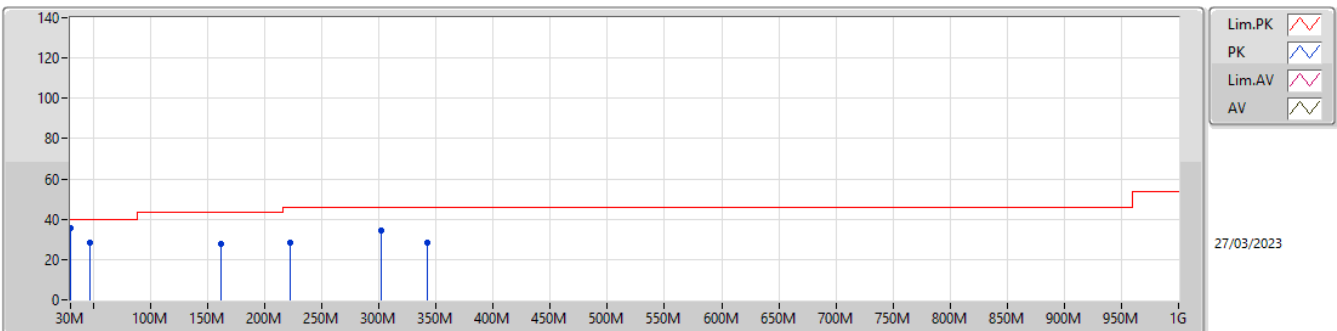
2480MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	39.7M	33.67	40.00	-6.33	-7.75	3	Vertical	0	1.00	41.42	18.01	1.03	26.79
PK	128.94M	25.72	43.50	-17.78	-9.00	3	Vertical	0	1.00	34.72	17.15	1.60	27.75
PK	163.86M	25.90	43.50	-17.60	-10.76	3	Vertical	0	1.00	36.66	15.03	1.81	27.60
PK	222.06M	22.44	46.00	-23.56	-10.66	3	Vertical	0	1.00	33.10	14.51	2.13	27.30
PK	303.54M	33.26	46.00	-12.74	-6.18	3	Vertical	0	1.00	39.44	18.51	2.52	27.21
PK	334.58M	27.43	46.00	-18.57	-5.81	3	Vertical	0	1.00	33.24	18.94	2.65	27.40

2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	35.80	40.00	-4.20	-2.80	3	Horizontal	360	1.00	38.60	23.14	1.02	26.96
PK	47.46M	28.66	40.00	-11.34	-11.87	3	Horizontal	360	1.00	40.53	14.39	1.03	27.29
PK	161.92M	27.77	43.50	-15.73	-10.79	3	Horizontal	360	1.00	38.56	15.04	1.79	27.62
PK	222.06M	28.33	46.00	-17.67	-10.66	3	Horizontal	360	1.00	38.99	14.51	2.13	27.30
PK	301.6M	34.40	46.00	-11.60	-6.25	3	Horizontal	360	1.00	40.65	18.43	2.52	27.20
PK	342.34M	28.46	46.00	-17.54	-5.58	3	Horizontal	360	1.00	34.04	19.19	2.68	27.45



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
BT-EDR(3Mbps)	Pass	PK	31.94M	30.42	40.00	-9.58	3	Horizontal	0	1.00

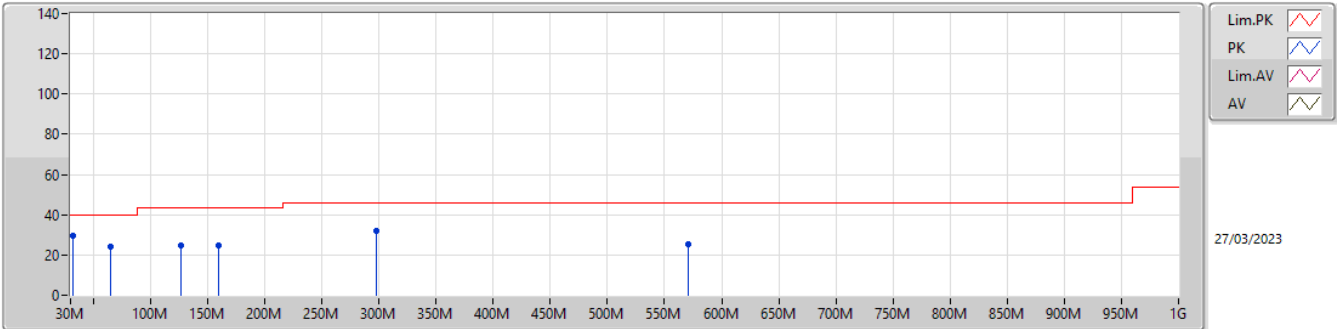


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2480MHz	Pass	PK	31.94M	29.82	40.00	-10.18	-3.75	3	Vertical	360	1.00
2480MHz	Pass	PK	64.92M	24.32	40.00	-15.68	-15.01	3	Vertical	360	1.00
2480MHz	Pass	PK	127M	24.47	43.50	-19.03	-8.96	3	Vertical	360	1.00
2480MHz	Pass	PK	159.98M	24.48	43.50	-19.02	-10.68	3	Vertical	360	1.00
2480MHz	Pass	PK	297.72M	31.79	46.00	-14.21	-6.38	3	Vertical	360	1.00
2480MHz	Pass	PK	571.26M	25.35	46.00	-20.65	-1.19	3	Vertical	360	1.00
2480MHz	Pass	PK	31.94M	30.42	40.00	-9.58	-3.75	3	Horizontal	0	1.00
2480MHz	Pass	PK	49.4M	25.45	40.00	-14.55	-12.59	3	Horizontal	0	1.00
2480MHz	Pass	PK	136.7M	24.60	43.50	-18.90	-9.49	3	Horizontal	0	1.00
2480MHz	Pass	PK	156.1M	25.42	43.50	-18.08	-10.56	3	Horizontal	0	1.00
2480MHz	Pass	PK	239.52M	26.36	46.00	-19.64	-8.58	3	Horizontal	0	1.00
2480MHz	Pass	PK	305.48M	33.52	46.00	-12.48	-6.11	3	Horizontal	0	1.00

2.4-2.4835GHz_BT-EDR(3Mbps)

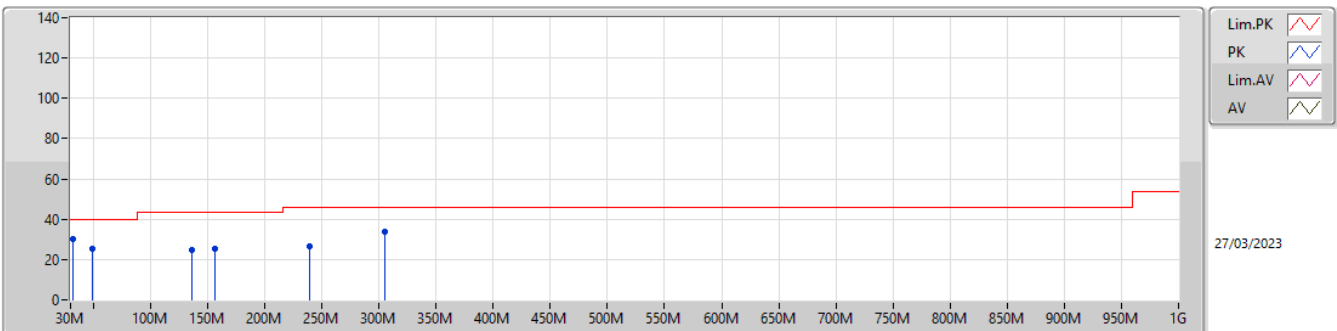
2480MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	31.94M	29.82	40.00	-10.18	-3.75	3	Vertical	360	1.00	33.57	22.06	1.02	26.83
PK	64.92M	24.32	40.00	-15.68	-15.01	3	Vertical	360	1.00	39.33	11.57	1.17	27.75
PK	127M	24.47	43.50	-19.03	-8.96	3	Vertical	360	1.00	33.43	17.20	1.59	27.75
PK	159.98M	24.48	43.50	-19.02	-10.68	3	Vertical	360	1.00	35.16	15.17	1.78	27.63
PK	297.72M	31.79	46.00	-14.21	-6.38	3	Vertical	360	1.00	38.17	18.31	2.50	27.19
PK	571.26M	25.35	46.00	-20.65	-1.19	3	Vertical	360	1.00	26.54	23.87	3.49	28.55

2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	31.94M	30.42	40.00	-9.58	-3.75	3	Horizontal	0	1.00	34.17	22.06	1.02	26.83
PK	49.4M	25.45	40.00	-14.55	-12.59	3	Horizontal	0	1.00	38.04	13.76	1.04	27.39
PK	136.7M	24.60	43.50	-18.90	-9.49	3	Horizontal	0	1.00	34.09	16.59	1.65	27.73
PK	156.1M	25.42	43.50	-18.08	-10.56	3	Horizontal	0	1.00	35.98	15.33	1.76	27.65
PK	239.52M	26.36	46.00	-19.64	-8.58	3	Horizontal	0	1.00	34.94	16.42	2.21	27.21
PK	305.48M	33.52	46.00	-12.48	-6.11	3	Horizontal	0	1.00	39.63	18.58	2.53	27.22



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	2.4866G	61.15	74.00	-12.85	32.16	3	Horizontal	65	1.55
BT-EDR(3Mbps)	Pass	PK	2.4835G	65.62	74.00	-8.38	32.14	3	Horizontal	66	1.54



Result

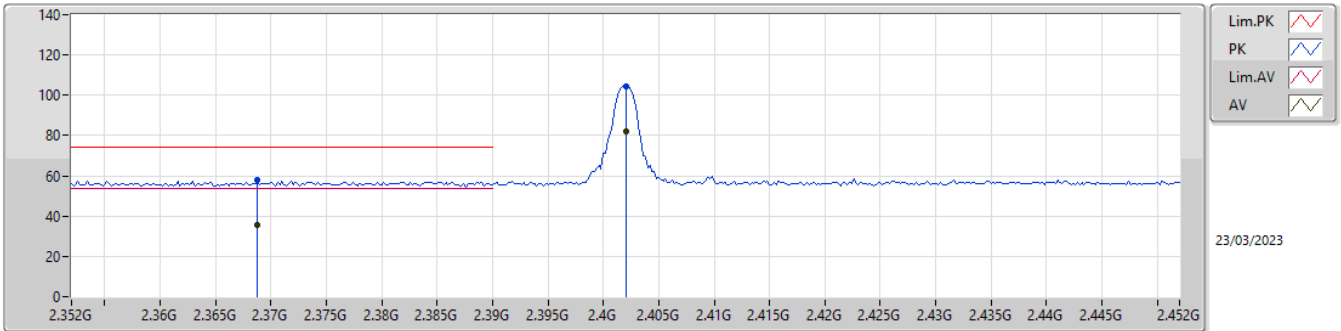
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Height (m)
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3688G	35.39	54.00	-18.61	31.58	3	Vertical	2.82
2402MHz	Pass	AV	2.402G	81.95	Inf	-Inf	31.86	3	Vertical	2.82
2402MHz	Pass	PK	2.3688G	57.89	74.00	-16.11	31.58	3	Vertical	2.82
2402MHz	Pass	PK	2.402G	104.45	Inf	-Inf	31.86	3	Vertical	2.82
2402MHz	Pass	AV	2.3762G	35.31	54.00	-18.69	31.65	3	Horizontal	1.38
2402MHz	Pass	AV	2.402G	82.32	Inf	-Inf	31.86	3	Horizontal	1.38
2402MHz	Pass	PK	2.3762G	57.81	74.00	-16.19	31.65	3	Horizontal	1.38
2402MHz	Pass	PK	2.402G	104.82	Inf	-Inf	31.86	3	Horizontal	1.38
2402MHz	Pass	AV	4.80623G	19.01	54.00	-34.99	4.21	3	Vertical	1.50
2402MHz	Pass	PK	4.80623G	41.51	74.00	-32.49	4.21	3	Vertical	1.50
2402MHz	Pass	AV	4.8044G	21.34	54.00	-32.66	4.20	3	Horizontal	1.54
2402MHz	Pass	PK	4.8044G	43.84	74.00	-30.16	4.20	3	Horizontal	1.54
2440MHz	Pass	AV	2.36G	35.14	54.00	-18.86	31.51	3	Vertical	3.00
2440MHz	Pass	AV	2.44G	81.74	Inf	-Inf	31.96	3	Vertical	3.00
2440MHz	Pass	AV	2.496G	36.16	54.00	-17.84	32.20	3	Vertical	3.00
2440MHz	Pass	PK	2.36G	57.64	74.00	-16.36	31.51	3	Vertical	3.00
2440MHz	Pass	PK	2.44G	104.24	Inf	-Inf	31.96	3	Vertical	3.00
2440MHz	Pass	PK	2.496G	58.66	74.00	-15.34	32.20	3	Vertical	3.00
2440MHz	Pass	AV	2.3748G	35.46	54.00	-18.54	31.64	3	Horizontal	1.37
2440MHz	Pass	AV	2.44G	84.55	Inf	-Inf	31.96	3	Horizontal	1.37
2440MHz	Pass	AV	2.4996G	35.61	54.00	-18.39	32.22	3	Horizontal	1.37
2440MHz	Pass	PK	2.3748G	57.96	74.00	-16.04	31.64	3	Horizontal	1.37
2440MHz	Pass	PK	2.44G	107.05	Inf	-Inf	31.96	3	Horizontal	1.37
2440MHz	Pass	PK	2.4996G	58.11	74.00	-15.89	32.22	3	Horizontal	1.37
2440MHz	Pass	AV	4.88004G	20.03	54.00	-33.97	4.68	3	Vertical	1.70
2440MHz	Pass	PK	4.88004G	42.53	74.00	-31.47	4.68	3	Vertical	1.70
2440MHz	Pass	AV	4.88018G	20.94	54.00	-33.06	4.68	3	Horizontal	1.61
2440MHz	Pass	PK	4.88018G	43.44	74.00	-30.56	4.68	3	Horizontal	1.61
2480MHz	Pass	AV	2.4798G	82.36	Inf	-Inf	32.13	3	Vertical	2.89
2480MHz	Pass	AV	2.4876G	38.03	54.00	-15.97	32.16	3	Vertical	2.89
2480MHz	Pass	PK	2.4798G	104.86	Inf	-Inf	32.13	3	Vertical	2.89
2480MHz	Pass	PK	2.4876G	60.53	74.00	-13.47	32.16	3	Vertical	2.89
2480MHz	Pass	AV	2.48G	82.12	Inf	-Inf	32.13	3	Horizontal	1.55
2480MHz	Pass	AV	2.4866G	38.65	54.00	-15.35	32.16	3	Horizontal	1.55
2480MHz	Pass	PK	2.48G	107.62	Inf	-Inf	32.13	3	Horizontal	1.55
2480MHz	Pass	PK	2.4866G	61.15	74.00	-12.85	32.16	3	Horizontal	1.55
2480MHz	Pass	AV	4.96054G	22.26	54.00	-31.74	5.18	3	Vertical	2.82
2480MHz	Pass	PK	4.96054G	44.76	74.00	-29.24	5.18	3	Vertical	2.82
2480MHz	Pass	AV	4.96048G	23.19	54.00	-30.81	5.18	3	Horizontal	2.34
2480MHz	Pass	PK	4.96048G	45.69	74.00	-28.31	5.18	3	Horizontal	2.34
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3696G	35.18	54.00	-18.82	31.59	3	Vertical	2.92
2402MHz	Pass	AV	2.402G	78.10	Inf	-Inf	31.86	3	Vertical	2.92
2402MHz	Pass	PK	2.3696G	57.68	74.00	-16.32	31.59	3	Vertical	2.92
2402MHz	Pass	PK	2.402G	100.60	Inf	-Inf	31.86	3	Vertical	2.92
2402MHz	Pass	AV	2.3782G	35.96	54.00	-18.04	31.67	3	Horizontal	1.38
2402MHz	Pass	AV	2.402G	80.72	Inf	-Inf	31.86	3	Horizontal	1.38
2402MHz	Pass	PK	2.3782G	58.46	74.00	-15.54	31.67	3	Horizontal	1.38
2402MHz	Pass	PK	2.402G	103.22	Inf	-Inf	31.86	3	Horizontal	1.38
2402MHz	Pass	AV	4.80304G	19.57	54.00	-34.43	4.19	3	Vertical	2.61
2402MHz	Pass	PK	4.80304G	42.07	74.00	-31.93	4.19	3	Vertical	2.61
2402MHz	Pass	AV	4.80474G	19.75	54.00	-34.25	4.20	3	Horizontal	1.50
2402MHz	Pass	PK	4.80474G	42.25	74.00	-31.75	4.20	3	Horizontal	1.50
2440MHz	Pass	AV	2.3552G	35.07	54.00	-18.93	31.46	3	Vertical	2.80
2440MHz	Pass	AV	2.44G	79.60	Inf	-Inf	31.96	3	Vertical	2.80
2440MHz	Pass	AV	2.4844G	35.89	54.00	-18.11	32.15	3	Vertical	2.80
2440MHz	Pass	PK	2.3552G	57.57	74.00	-16.43	31.46	3	Vertical	2.80
2440MHz	Pass	PK	2.44G	102.10	Inf	-Inf	31.96	3	Vertical	2.80
2440MHz	Pass	PK	2.4844G	58.39	74.00	-15.61	32.15	3	Vertical	2.80
2440MHz	Pass	AV	2.3852G	34.72	54.00	-19.28	31.73	3	Horizontal	1.54



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Height (m)
2440MHz	Pass	AV	2.44G	82.36	Inf	-Inf	31.96	3	Horizontal	1.54
2440MHz	Pass	AV	2.4924G	35.34	54.00	-18.66	32.19	3	Horizontal	1.54
2440MHz	Pass	PK	2.3852G	57.22	74.00	-16.78	31.73	3	Horizontal	1.54
2440MHz	Pass	PK	2.44G	104.86	Inf	-Inf	31.96	3	Horizontal	1.54
2440MHz	Pass	PK	2.4924G	57.84	74.00	-16.16	32.19	3	Horizontal	1.54
2440MHz	Pass	AV	4.87959G	20.03	54.00	-33.97	4.68	3	Vertical	2.77
2440MHz	Pass	PK	4.87959G	42.53	74.00	-31.47	4.68	3	Vertical	2.77
2440MHz	Pass	AV	4.87985G	20.89	54.00	-33.11	4.68	3	Horizontal	1.55
2440MHz	Pass	PK	4.87985G	42.89	74.00	-31.11	4.68	3	Horizontal	1.55
2480MHz	Pass	AV	2.48G	80.47	Inf	-Inf	32.13	3	Vertical	2.88
2480MHz	Pass	AV	2.4836G	40.86	54.00	-13.14	32.14	3	Vertical	2.88
2480MHz	Pass	PK	2.48G	102.97	Inf	-Inf	32.13	3	Vertical	2.88
2480MHz	Pass	PK	2.4836G	63.36	74.00	-10.64	32.14	3	Vertical	2.88
2480MHz	Pass	AV	2.48G	82.13	Inf	-Inf	32.13	3	Horizontal	1.54
2480MHz	Pass	AV	2.4835G	43.12	54.00	-10.88	32.14	3	Horizontal	1.54
2480MHz	Pass	PK	2.48G	105.62	Inf	-Inf	32.13	3	Horizontal	1.54
2480MHz	Pass	PK	2.4835G	65.62	74.00	-8.38	32.14	3	Horizontal	1.54
2480MHz	Pass	AV	4.96008G	21.43	54.00	-32.57	5.18	3	Vertical	2.83
2480MHz	Pass	PK	4.96008G	43.84	74.00	-30.16	5.18	3	Vertical	2.83
2480MHz	Pass	AV	4.95998G	22.43	54.00	-31.57	5.18	3	Horizontal	2.61
2480MHz	Pass	PK	4.96028G	44.93	74.00	-29.07	5.18	3	Horizontal	2.61

2.4-2.4835GHz_BT-BR(1Mbps)

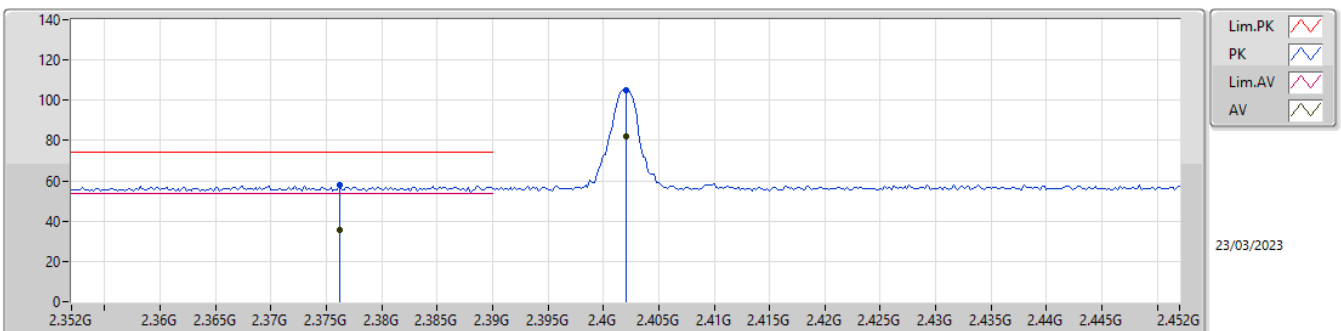
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3688G	35.39	54.00	-18.61	31.58	3	Vertical	97	2.82	3.81	27.35	4.23	-
AV	2.402G	81.95	Inf	-Inf	31.86	3	Vertical	97	2.82	50.09	27.60	4.26	-
PK	2.3688G	57.89	74.00	-16.11	31.58	3	Vertical	97	2.82	26.31	27.35	4.23	-
PK	2.402G	104.45	Inf	-Inf	31.86	3	Vertical	97	2.82	72.59	27.60	4.26	-

2.4-2.4835GHz_BT-BR(1Mbps)

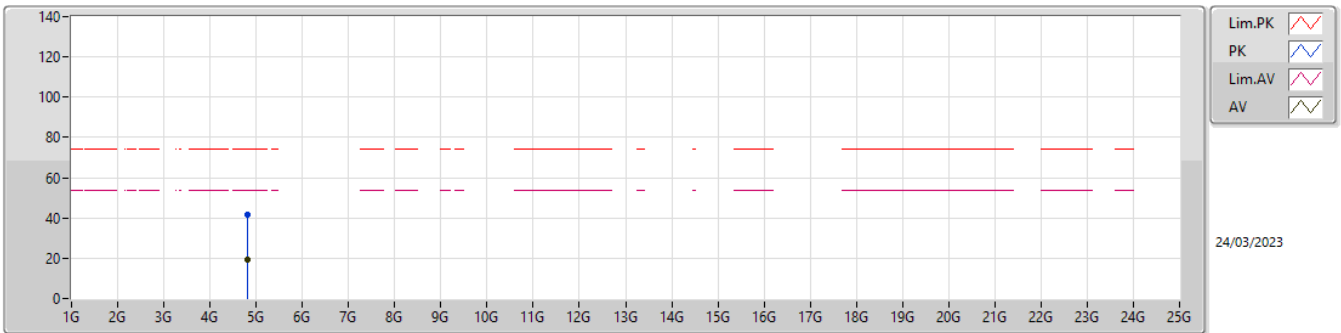
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3762G	35.31	54.00	-18.69	31.65	3	Horizontal	65	1.38	3.66	27.41	4.24	-
AV	2.402G	82.32	Inf	-Inf	31.86	3	Horizontal	65	1.38	50.46	27.60	4.26	-
PK	2.3762G	57.81	74.00	-16.19	31.65	3	Horizontal	65	1.38	26.16	27.41	4.24	-
PK	2.402G	104.82	Inf	-Inf	31.86	3	Horizontal	65	1.38	72.96	27.60	4.26	-

2.4-2.4835GHz_BT-BR(1Mbps)

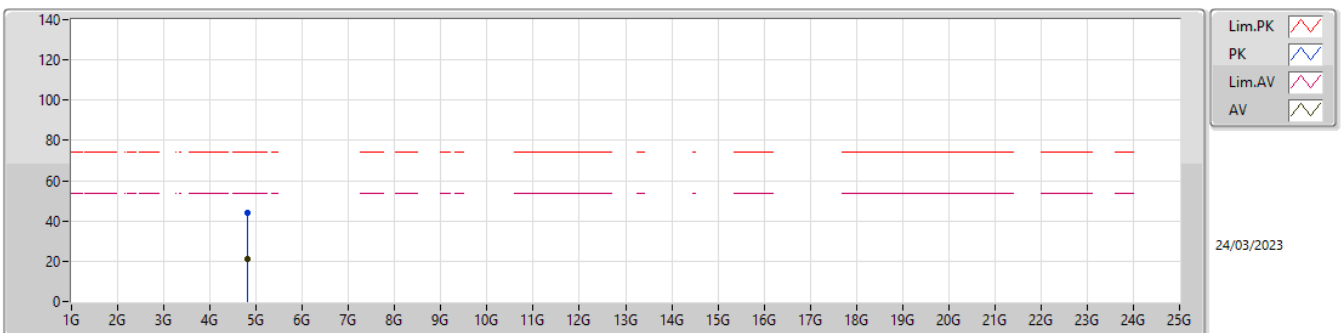
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80623G	19.01	54.00	-34.99	4.21	3	Vertical	191	1.50	14.80	32.24	6.16	34.19
PK	4.80623G	41.51	74.00	-32.49	4.21	3	Vertical	191	1.50	37.30	32.24	6.16	34.19

2.4-2.4835GHz_BT-BR(1Mbps)

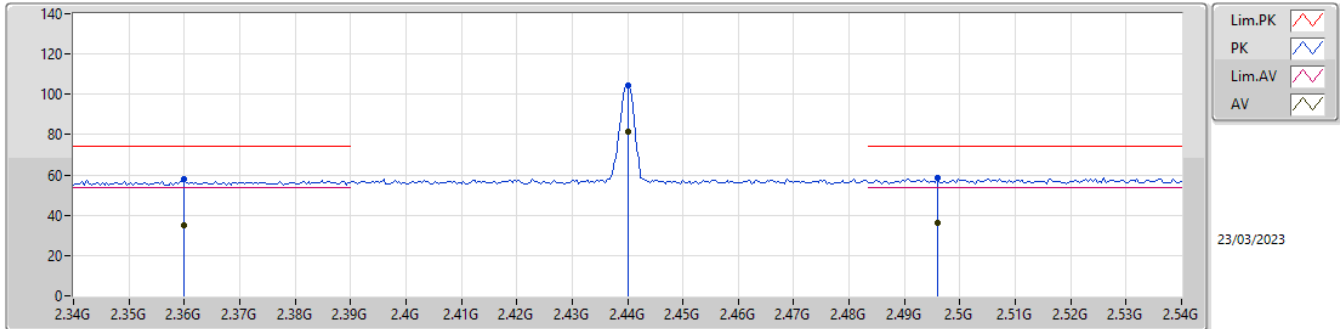
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8044G	21.34	54.00	-32.66	4.20	3	Horizontal	351	1.54	17.14	32.23	6.16	34.19
PK	4.8044G	43.84	74.00	-30.16	4.20	3	Horizontal	351	1.54	39.64	32.23	6.16	34.19

2.4-2.4835GHz_BT-BR(1Mbps)

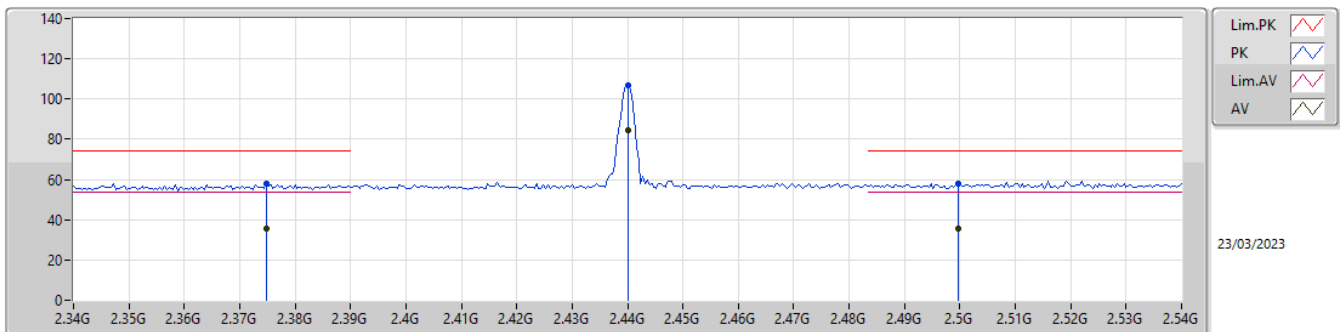
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.36G	35.14	54.00	-18.86	31.51	3	Vertical	96	3.00	3.63	27.28	4.23	-
AV	2.44G	81.74	Inf	-Inf	31.96	3	Vertical	96	3.00	49.78	27.68	4.28	-
AV	2.496G	36.16	54.00	-17.84	32.20	3	Vertical	96	3.00	3.96	27.88	4.32	-
PK	2.36G	57.64	74.00	-16.36	31.51	3	Vertical	96	3.00	26.13	27.28	4.23	-
PK	2.44G	104.24	Inf	-Inf	31.96	3	Vertical	96	3.00	72.28	27.68	4.28	-
PK	2.496G	58.66	74.00	-15.34	32.20	3	Vertical	96	3.00	26.46	27.88	4.32	-

2.4-2.4835GHz_BT-BR(1Mbps)

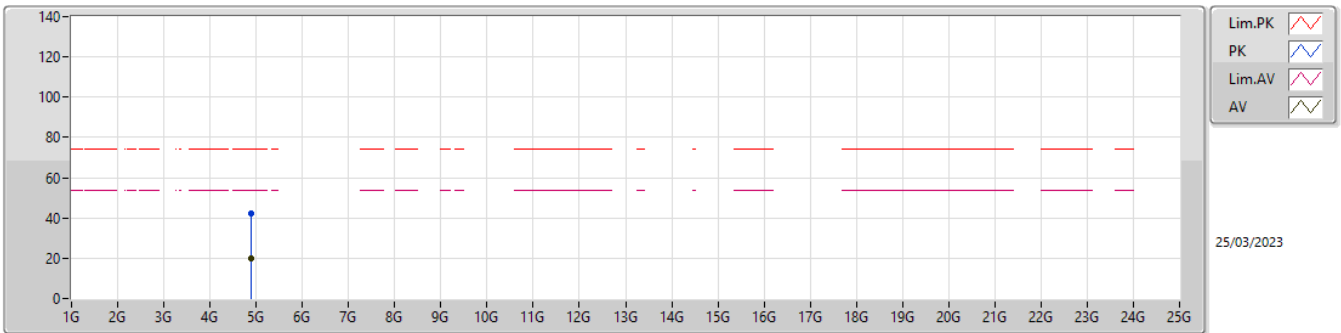
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3748G	35.46	54.00	-18.54	31.64	3	Horizontal	67	1.37	3.82	27.40	4.24	-
AV	2.44G	84.55	Inf	-Inf	31.96	3	Horizontal	67	1.37	52.59	27.68	4.28	-
AV	2.4996G	35.61	54.00	-18.39	32.22	3	Horizontal	67	1.37	3.39	27.90	4.32	-
PK	2.3748G	57.96	74.00	-16.04	31.64	3	Horizontal	67	1.37	26.32	27.40	4.24	-
PK	2.44G	107.05	Inf	-Inf	31.96	3	Horizontal	67	1.37	75.09	27.68	4.28	-
PK	2.4996G	58.11	74.00	-15.89	32.22	3	Horizontal	67	1.37	25.89	27.90	4.32	-

2.4-2.4835GHz_BT-BR(1Mbps)

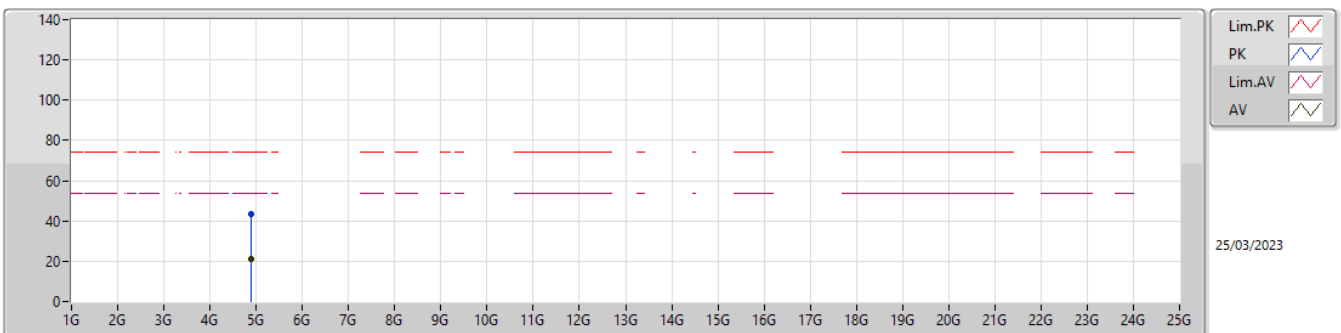
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88004G	20.03	54.00	-33.97	4.68	3	Vertical	207	1.70	15.35	32.62	6.22	34.16
PK	4.88004G	42.53	74.00	-31.47	4.68	3	Vertical	207	1.70	37.85	32.62	6.22	34.16

2.4-2.4835GHz_BT-BR(1Mbps)

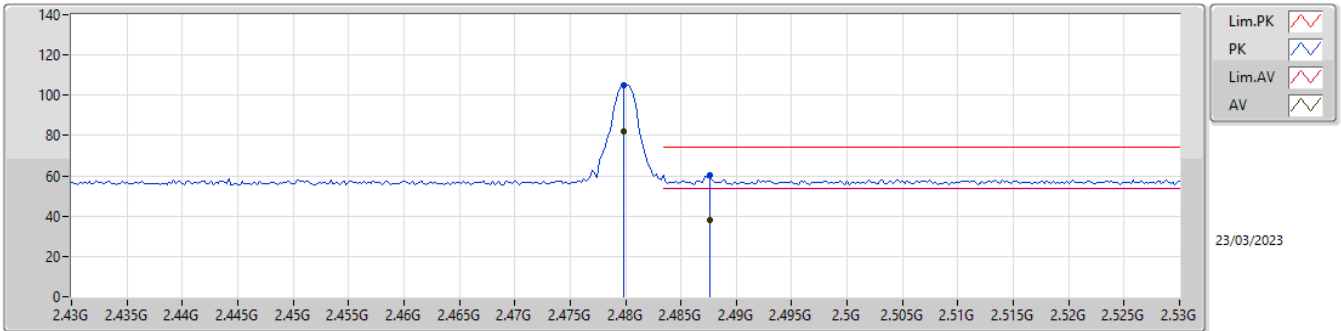
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88018G	20.94	54.00	-33.06	4.68	3	Horizontal	22	1.61	16.26	32.62	6.22	34.16
PK	4.88018G	43.44	74.00	-30.56	4.68	3	Horizontal	22	1.61	38.76	32.62	6.22	34.16

2.4-2.4835GHz_BT-BR(1Mbps)

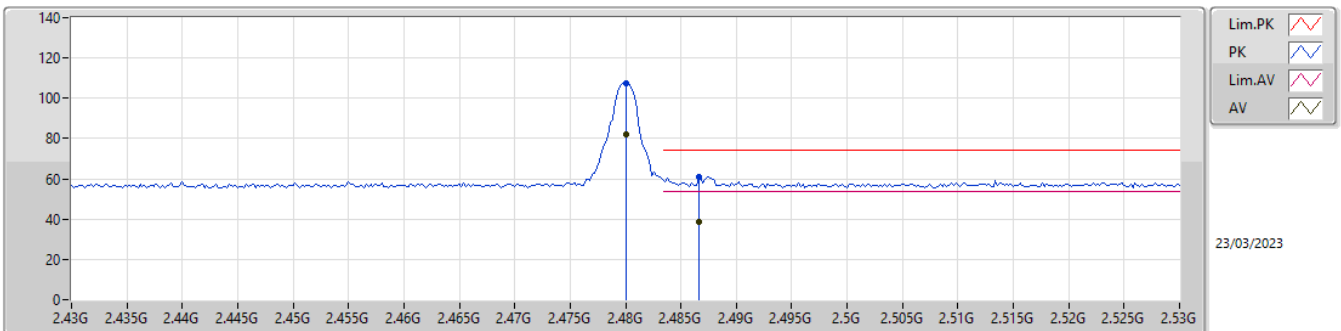
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	82.36	Inf	-Inf	32.13	3	Vertical	98	2.89	50.23	27.82	4.31	-
AV	2.4876G	38.03	54.00	-15.97	32.16	3	Vertical	98	2.89	5.87	27.85	4.31	-
PK	2.4798G	104.86	Inf	-Inf	32.13	3	Vertical	98	2.89	72.73	27.82	4.31	-
PK	2.4876G	60.53	74.00	-13.47	32.16	3	Vertical	98	2.89	28.37	27.85	4.31	-

2.4-2.4835GHz_BT-BR(1Mbps)

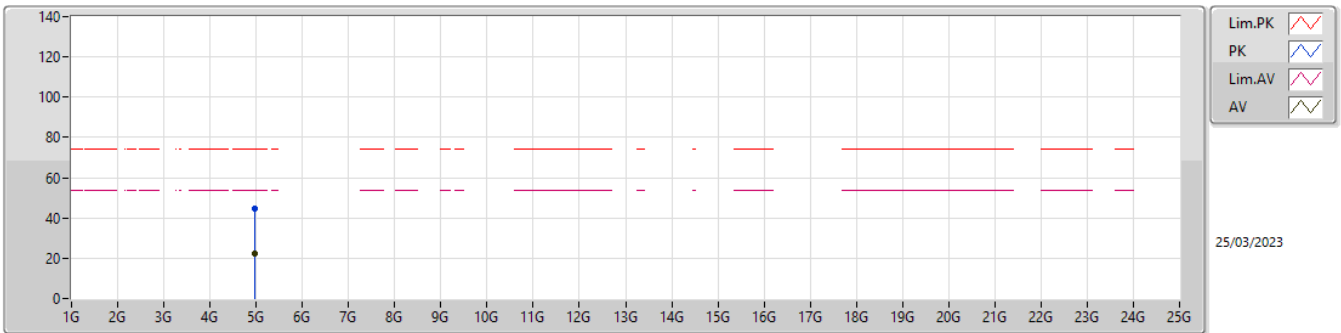
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	82.12	Inf	-Inf	32.13	3	Horizontal	65	1.55	49.99	27.82	4.31	-
AV	2.4866G	38.65	54.00	-15.35	32.16	3	Horizontal	65	1.55	6.49	27.85	4.31	-
PK	2.48G	107.62	Inf	-Inf	32.13	3	Horizontal	65	1.55	75.49	27.82	4.31	-
PK	2.4866G	61.15	74.00	-12.85	32.16	3	Horizontal	65	1.55	28.99	27.85	4.31	-

2.4-2.4835GHz_BT-BR(1Mbps)

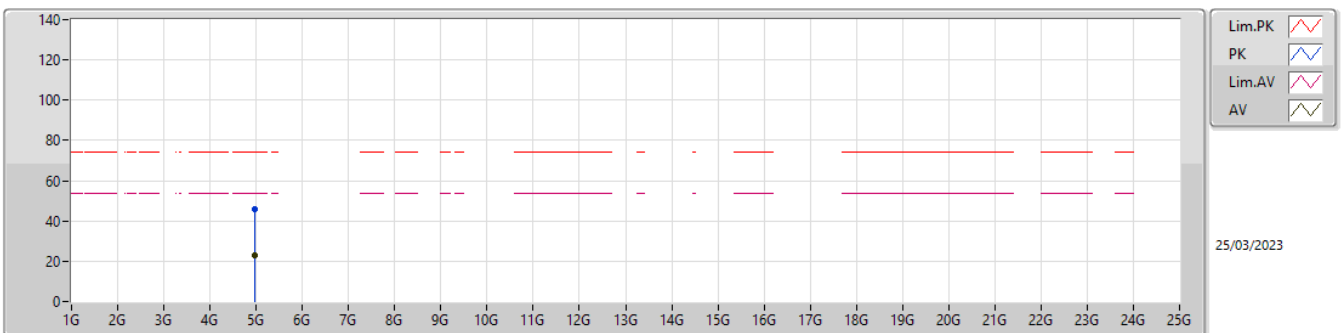
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96054G	22.26	54.00	-31.74	5.18	3	Vertical	350	2.82	17.08	33.04	6.27	34.13
PK	4.96054G	44.76	74.00	-29.24	5.18	3	Vertical	350	2.82	39.58	33.04	6.27	34.13

2.4-2.4835GHz_BT-BR(1Mbps)

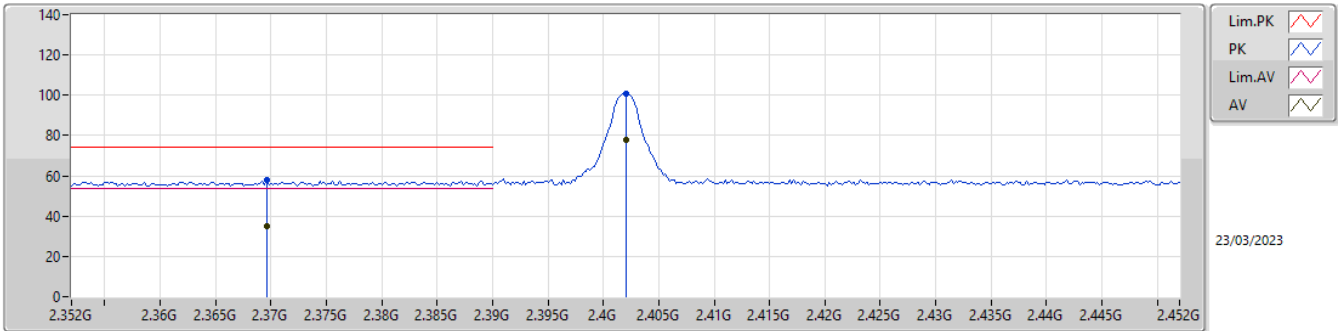
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96048G	23.19	54.00	-30.81	5.18	3	Horizontal	17	2.34	18.01	33.04	6.27	34.13
PK	4.96048G	45.69	74.00	-28.31	5.18	3	Horizontal	17	2.34	40.51	33.04	6.27	34.13

2.4-2.4835GHz_BT-EDR(3Mbps)

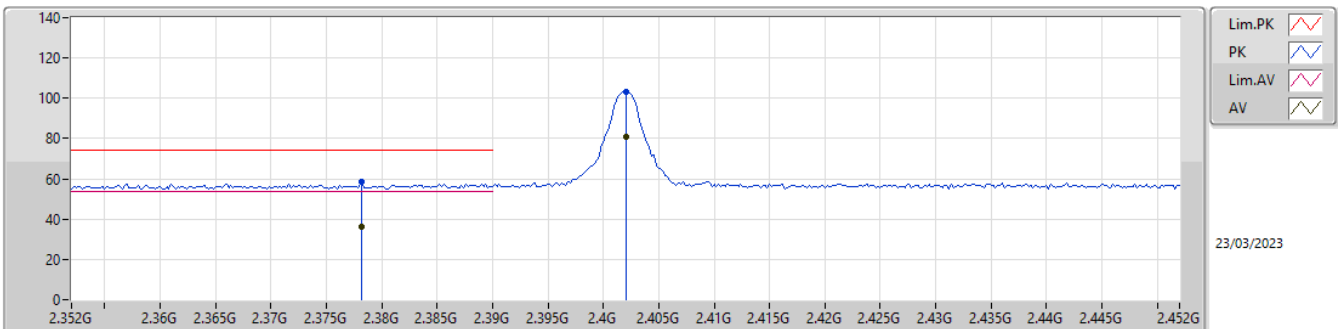
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3696G	35.18	54.00	-18.82	31.59	3	Vertical	98	2.92	3.59	27.36	4.23	-
AV	2.402G	78.10	Inf	-Inf	31.86	3	Vertical	98	2.92	46.24	27.60	4.26	-
PK	2.3696G	57.68	74.00	-16.32	31.59	3	Vertical	98	2.92	26.09	27.36	4.23	-
PK	2.402G	100.60	Inf	-Inf	31.86	3	Vertical	98	2.92	68.74	27.60	4.26	-

2.4-2.4835GHz_BT-EDR(3Mbps)

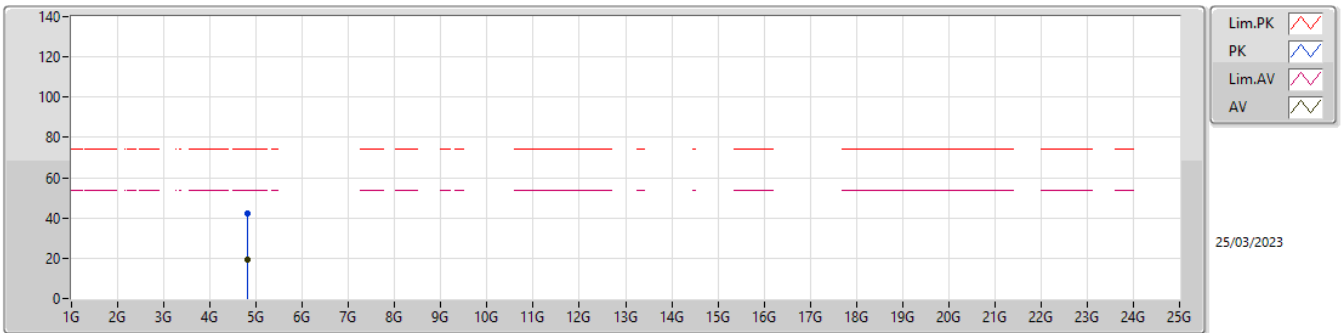
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3782G	35.96	54.00	-18.04	31.67	3	Horizontal	65	1.38	4.29	27.43	4.24	-
AV	2.402G	80.72	Inf	-Inf	31.86	3	Horizontal	65	1.38	48.86	27.60	4.26	-
PK	2.3782G	58.46	74.00	-15.54	31.67	3	Horizontal	65	1.38	26.79	27.43	4.24	-
PK	2.402G	103.22	Inf	-Inf	31.86	3	Horizontal	65	1.38	71.36	27.60	4.26	-

2.4-2.4835GHz_BT-EDR(3Mbps)

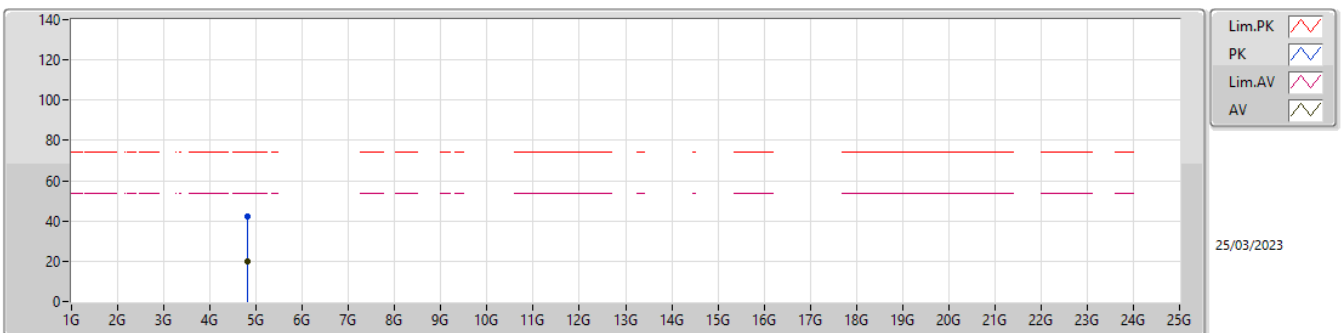
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80304G	19.57	54.00	-34.43	4.19	3	Vertical	102	2.61	15.38	32.22	6.16	34.19
PK	4.80304G	42.07	74.00	-31.93	4.19	3	Vertical	102	2.61	37.88	32.22	6.16	34.19

2.4-2.4835GHz_BT-EDR(3Mbps)

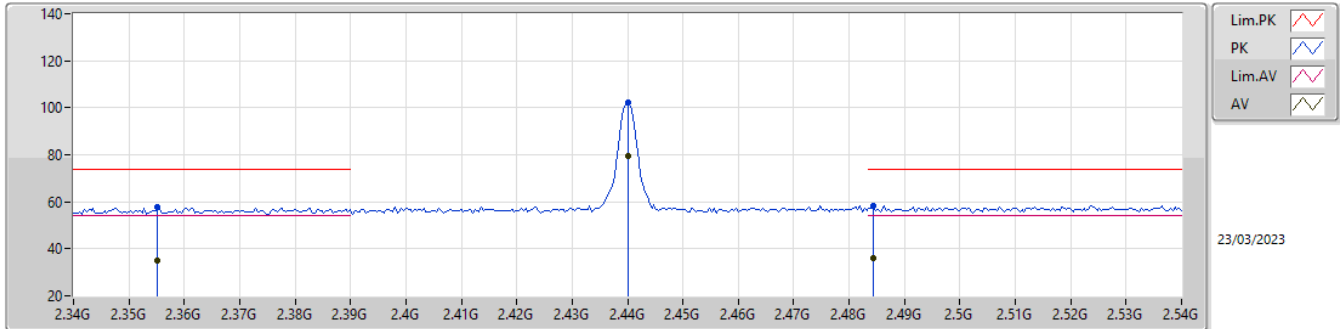
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80474G	19.75	54.00	-34.25	4.20	3	Horizontal	336	1.50	15.55	32.23	6.16	34.19
PK	4.80474G	42.25	74.00	-31.75	4.20	3	Horizontal	336	1.50	38.05	32.23	6.16	34.19

2.4-2.4835GHz_BT-EDR(3Mbps)

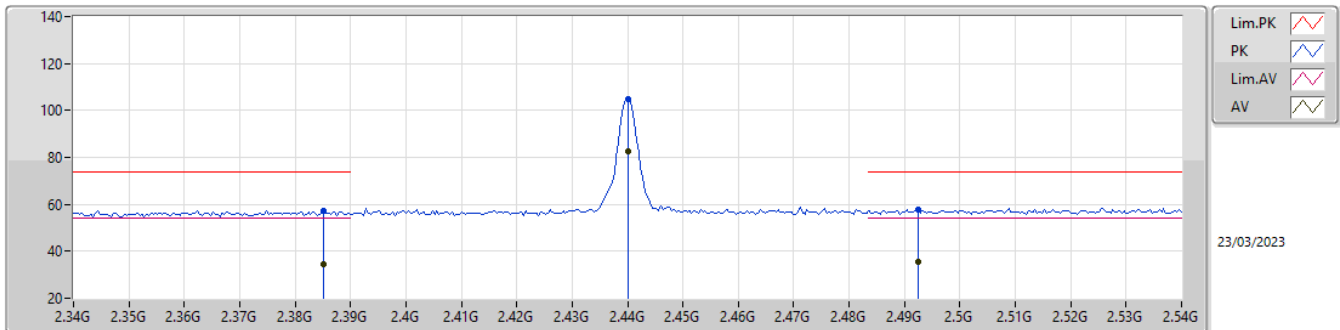
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3552G	35.07	54.00	-18.93	31.46	3	Vertical	96	2.80	3.61	27.24	4.22	-
AV	2.44G	79.60	Inf	-Inf	31.96	3	Vertical	96	2.80	47.64	27.68	4.28	-
AV	2.4844G	35.89	54.00	-18.11	32.15	3	Vertical	96	2.80	3.74	27.84	4.31	-
PK	2.3552G	57.57	74.00	-16.43	31.46	3	Vertical	96	2.80	26.11	27.24	4.22	-
PK	2.44G	102.10	Inf	-Inf	31.96	3	Vertical	96	2.80	70.14	27.68	4.28	-
PK	2.4844G	58.39	74.00	-15.61	32.15	3	Vertical	96	2.80	26.24	27.84	4.31	-

2.4-2.4835GHz_BT-EDR(3Mbps)

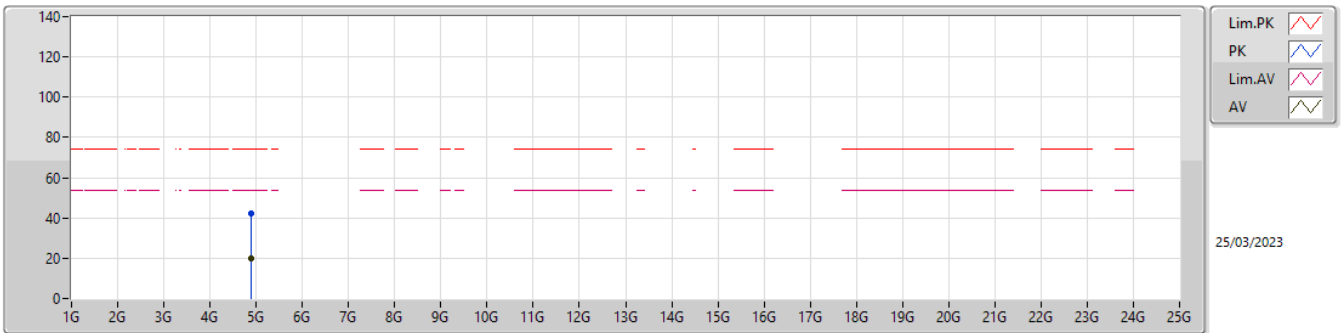
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3852G	34.72	54.00	-19.28	31.73	3	Horizontal	65	1.54	2.99	27.48	4.25	-
AV	2.44G	82.36	Inf	-Inf	31.96	3	Horizontal	65	1.54	50.40	27.68	4.28	-
AV	2.4924G	35.34	54.00	-18.66	32.19	3	Horizontal	65	1.54	3.15	27.87	4.32	-
PK	2.3852G	57.22	74.00	-16.78	31.73	3	Horizontal	65	1.54	25.49	27.48	4.25	-
PK	2.44G	104.86	Inf	-Inf	31.96	3	Horizontal	65	1.54	72.90	27.68	4.28	-
PK	2.4924G	57.84	74.00	-16.16	32.19	3	Horizontal	65	1.54	25.65	27.87	4.32	-

2.4-2.4835GHz_BT-EDR(3Mbps)

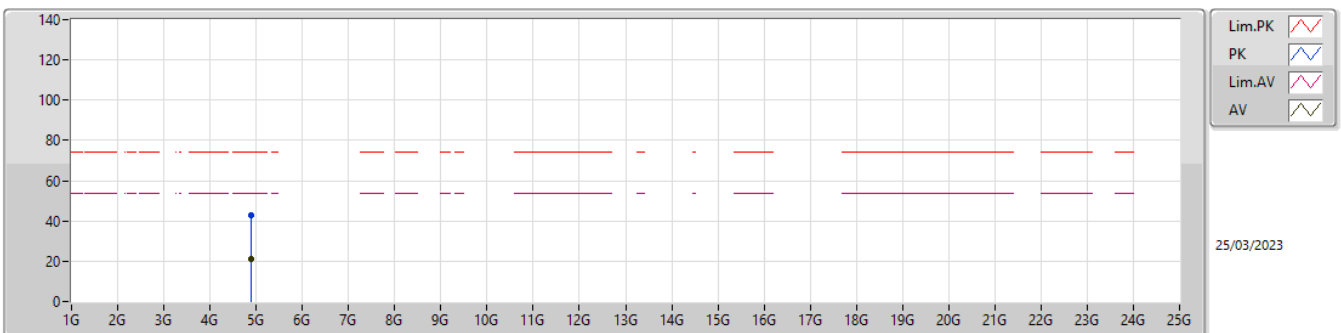
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87959G	20.03	54.00	-33.97	4.68	3	Vertical	101	2.77	15.35	32.62	6.22	34.16
PK	4.87959G	42.53	74.00	-31.47	4.68	3	Vertical	101	2.77	37.85	32.62	6.22	34.16

2.4-2.4835GHz_BT-EDR(3Mbps)

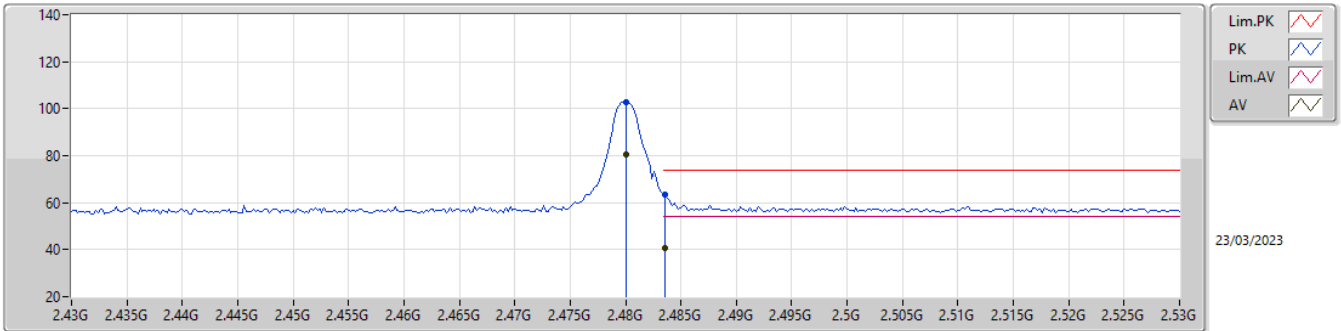
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87985G	20.89	54.00	-33.11	4.68	3	Horizontal	10	1.55	16.21	32.62	6.22	34.16
PK	4.87985G	42.89	74.00	-31.11	4.68	3	Horizontal	10	1.55	38.21	32.62	6.22	34.16

2.4-2.4835GHz_BT-EDR(3Mbps)

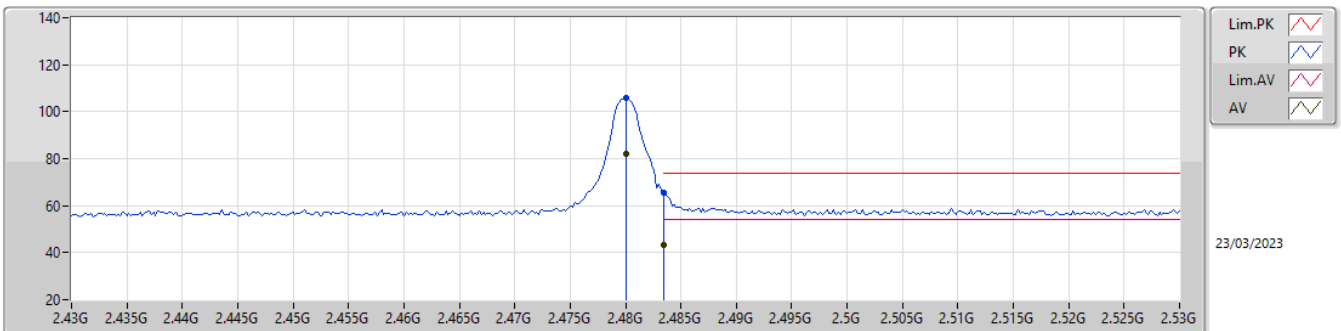
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	80.47	Inf	-Inf	32.13	3	Vertical	98	2.88	48.34	27.82	4.31	-
AV	2.4836G	40.86	54.00	-13.14	32.14	3	Vertical	98	2.88	8.72	27.83	4.31	-
PK	2.48G	102.97	Inf	-Inf	32.13	3	Vertical	98	2.88	70.84	27.82	4.31	-
PK	2.4836G	63.36	74.00	-10.64	32.14	3	Vertical	98	2.88	31.22	27.83	4.31	-

2.4-2.4835GHz_BT-EDR(3Mbps)

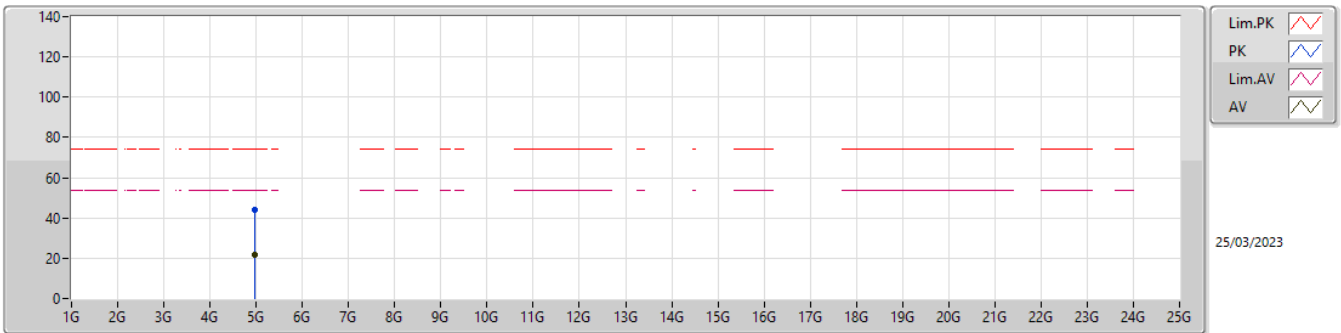
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	82.13	Inf	-Inf	32.13	3	Horizontal	66	1.54	50.00	27.82	4.31	-
AV	2.4835G	43.12	54.00	-10.88	32.14	3	Horizontal	66	1.54	10.98	27.83	4.31	-
PK	2.48G	105.62	Inf	-Inf	32.13	3	Horizontal	66	1.54	73.49	27.82	4.31	-
PK	2.4835G	65.62	74.00	-8.38	32.14	3	Horizontal	66	1.54	33.48	27.83	4.31	-

2.4-2.4835GHz_BT-EDR(3Mbps)

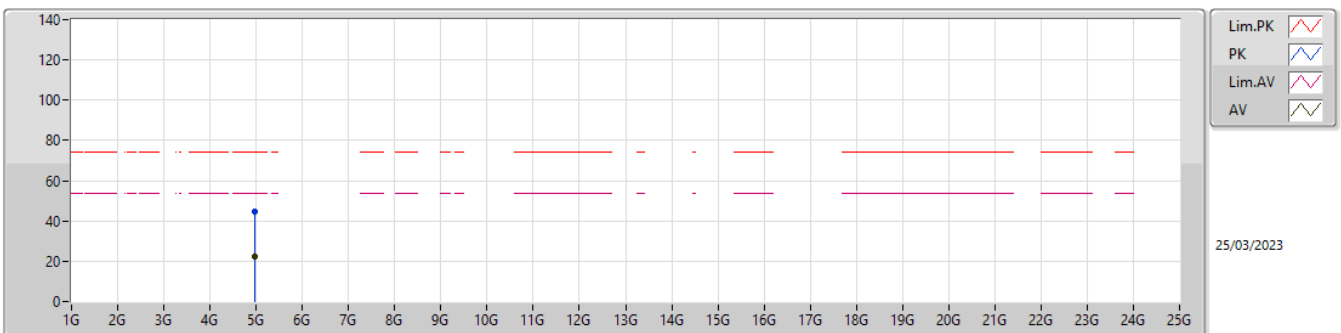
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96008G	21.43	54.00	-32.57	5.18	3	Vertical	101	2.83	16.25	33.04	6.27	34.13
PK	4.96008G	43.84	74.00	-30.16	5.18	3	Vertical	101	2.83	38.66	33.04	6.27	34.13

2.4-2.4835GHz_BT-EDR(3Mbps)

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95998G	22.43	54.00	-31.57	5.18	3	Horizontal	14	2.61	17.25	33.04	6.27	34.13
PK	4.96028G	44.93	74.00	-29.07	5.18	3	Horizontal	14	2.61	39.75	33.04	6.27	34.13



Summary

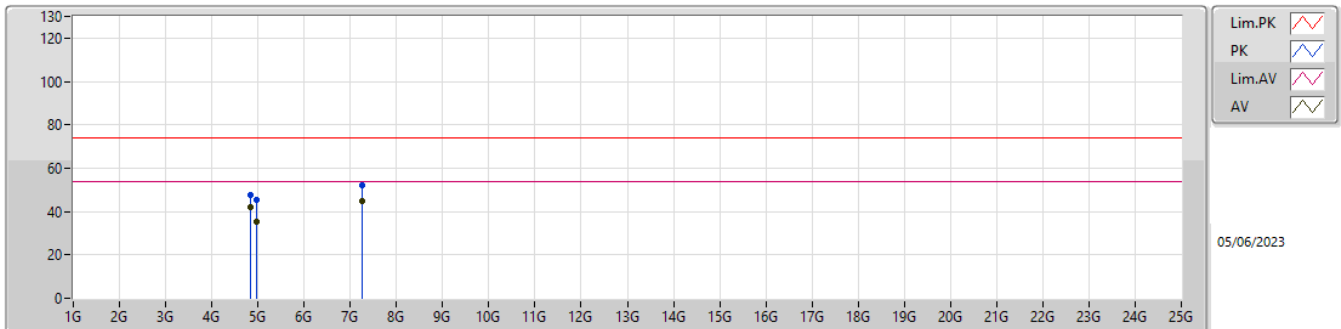
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.834G	45.82	54.00	-8.18	3	Horizontal	351	1.87
Mode 2	Pass	AV	11.53008G	42.83	54.00	-11.17	3	Horizontal	83	1.50
Mode 3	Pass	PK	17.56728G	57.49	68.20	-10.71	3	Vertical	323	2.08
Mode 4	Pass	AV	12.68773G	44.27	54.00	-9.73	3	Vertical	173	2.32



Result

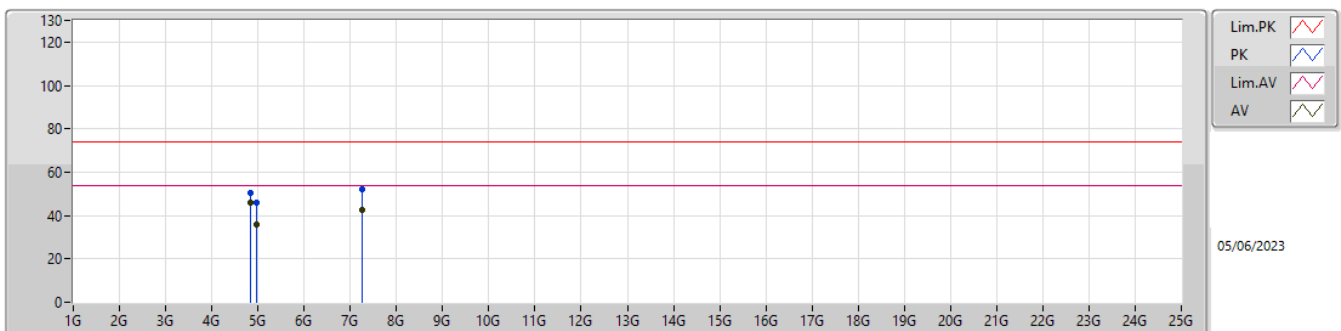
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	4.83392G	41.83	54.00	-12.17	3	Vertical	267	3.00
Mode 1	Pass	AV	4.96211G	35.08	54.00	-18.92	3	Vertical	350	1.50
Mode 1	Pass	AV	7.25183G	44.79	54.00	-9.21	3	Vertical	346	2.24
Mode 1	Pass	PK	4.83398G	47.46	74.00	-26.54	3	Vertical	267	3.00
Mode 1	Pass	PK	4.96363G	45.24	74.00	-28.76	3	Vertical	350	1.50
Mode 1	Pass	PK	7.25217G	52.39	74.00	-21.61	3	Vertical	346	2.24
Mode 1	Pass	AV	4.834G	45.82	54.00	-8.18	3	Horizontal	351	1.87
Mode 1	Pass	AV	4.96042G	35.74	54.00	-18.26	3	Horizontal	356	2.69
Mode 1	Pass	AV	7.25181G	42.45	54.00	-11.55	3	Horizontal	281	1.50
Mode 1	Pass	PK	4.834G	50.50	74.00	-23.50	3	Horizontal	351	1.87
Mode 1	Pass	PK	4.96228G	45.94	74.00	-28.06	3	Horizontal	356	2.69
Mode 1	Pass	PK	7.25456G	52.06	74.00	-21.94	3	Horizontal	281	1.50
Mode 2	Pass	AV	4.96207G	35.09	54.00	-18.91	3	Vertical	231	1.50
Mode 2	Pass	AV	11.51488G	42.82	54.00	-11.18	3	Vertical	318	1.50
Mode 2	Pass	AV	17.36468G	46.35	68.20	-21.85	3	Vertical	16	1.50
Mode 2	Pass	PK	4.96463G	45.38	74.00	-28.62	3	Vertical	231	1.50
Mode 2	Pass	PK	11.55848G	53.21	74.00	-20.79	3	Vertical	318	1.50
Mode 2	Pass	PK	17.36188G	56.44	68.20	-11.76	3	Vertical	16	1.50
Mode 2	Pass	AV	4.96023G	37.16	54.00	-16.84	3	Horizontal	9	2.66
Mode 2	Pass	AV	11.53008G	42.83	54.00	-11.17	3	Horizontal	83	1.50
Mode 2	Pass	AV	17.3054G	46.31	68.20	-21.89	3	Horizontal	41	1.50
Mode 2	Pass	PK	4.9597G	46.34	74.00	-27.66	3	Horizontal	9	2.66
Mode 2	Pass	PK	11.52856G	53.14	74.00	-20.86	3	Horizontal	83	1.50
Mode 2	Pass	PK	17.30164G	56.97	68.20	-11.23	3	Horizontal	41	1.50
Mode 3	Pass	AV	4.95978G	35.21	54.00	-18.79	3	Vertical	357	1.91
Mode 3	Pass	AV	11.70682G	43.08	54.00	-10.92	3	Vertical	21	1.65
Mode 3	Pass	AV	17.56871G	46.36	68.20	-21.84	3	Vertical	323	2.08
Mode 3	Pass	PK	4.95766G	45.14	74.00	-28.86	3	Vertical	357	1.91
Mode 3	Pass	PK	11.7135G	53.43	74.00	-20.57	3	Vertical	21	1.65
Mode 3	Pass	PK	17.56728G	57.49	68.20	-10.71	3	Vertical	323	2.08
Mode 3	Pass	AV	4.95983G	36.87	54.00	-17.13	3	Horizontal	11	2.72
Mode 3	Pass	AV	11.71469G	42.95	54.00	-11.05	3	Horizontal	151	2.35
Mode 3	Pass	AV	17.56619G	46.33	68.20	-21.87	3	Horizontal	50	2.13
Mode 3	Pass	PK	4.96019G	46.22	74.00	-27.78	3	Horizontal	11	2.72
Mode 3	Pass	PK	11.71474G	53.83	74.00	-20.17	3	Horizontal	151	2.35
Mode 3	Pass	PK	17.56895G	56.65	68.20	-11.55	3	Horizontal	50	2.13
Mode 4	Pass	AV	4.95954G	34.77	54.00	-19.23	3	Vertical	0	1.50
Mode 4	Pass	AV	12.68773G	44.27	54.00	-9.73	3	Vertical	173	2.32
Mode 4	Pass	PK	4.9586G	45.63	74.00	-28.37	3	Vertical	0	1.50
Mode 4	Pass	PK	12.69035G	54.41	74.00	-19.59	3	Vertical	173	2.32
Mode 4	Pass	AV	4.96397G	34.99	54.00	-19.01	3	Horizontal	32	1.84
Mode 4	Pass	AV	12.69461G	44.20	54.00	-9.80	3	Horizontal	66	1.65
Mode 4	Pass	PK	4.96115G	45.05	74.00	-28.95	3	Horizontal	32	1.84
Mode 4	Pass	PK	12.68741G	54.43	74.00	-19.57	3	Horizontal	66	1.65

Radiated Emissions above 1GHz_Mode 1



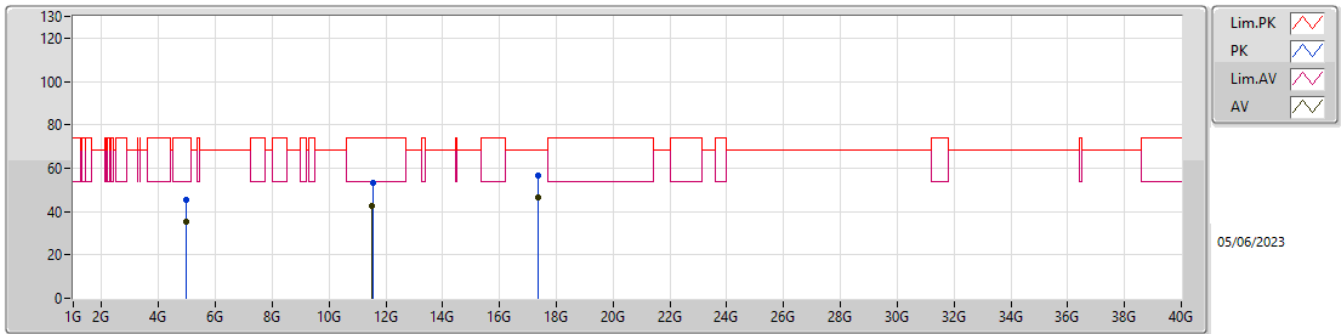
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.83392G	41.83	54.00	-12.17	3.20	3	Vertical	267	3.00	38.63	32.50	5.35	34.65
AV	4.96211G	35.08	54.00	-18.92	3.65	3	Vertical	350	1.50	31.43	32.85	5.44	34.64
AV	7.25183G	44.79	54.00	-9.21	8.64	3	Vertical	346	2.24	36.15	36.80	6.61	34.77
PK	4.83398G	47.46	74.00	-26.54	3.20	3	Vertical	267	3.00	44.26	32.50	5.35	34.65
PK	4.96363G	45.24	74.00	-28.76	3.65	3	Vertical	350	1.50	41.59	32.85	5.44	34.64
PK	7.25217G	52.39	74.00	-21.61	8.64	3	Vertical	346	2.24	43.75	36.80	6.61	34.77

Radiated Emissions above 1GHz_Mode 1



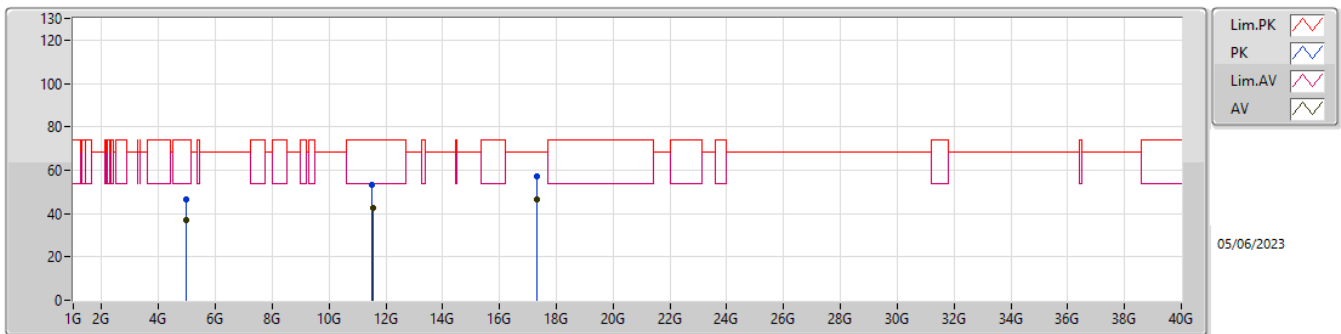
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.834G	45.82	54.00	-8.18	3.20	3	Horizontal	351	1.87	42.62	32.50	5.35	34.65
AV	4.96042G	35.74	54.00	-18.26	3.64	3	Horizontal	356	2.69	32.10	32.84	5.44	34.64
AV	7.25181G	42.45	54.00	-11.55	8.64	3	Horizontal	281	1.50	33.81	36.80	6.61	34.77
PK	4.834G	50.50	74.00	-23.50	3.20	3	Horizontal	351	1.87	47.30	32.50	5.35	34.65
PK	4.96228G	45.94	74.00	-28.06	3.65	3	Horizontal	356	2.69	42.29	32.85	5.44	34.64
PK	7.25456G	52.06	74.00	-21.94	8.63	3	Horizontal	281	1.50	43.43	36.79	6.61	34.77

Radiated Emissions above 1GHz_Mode 2



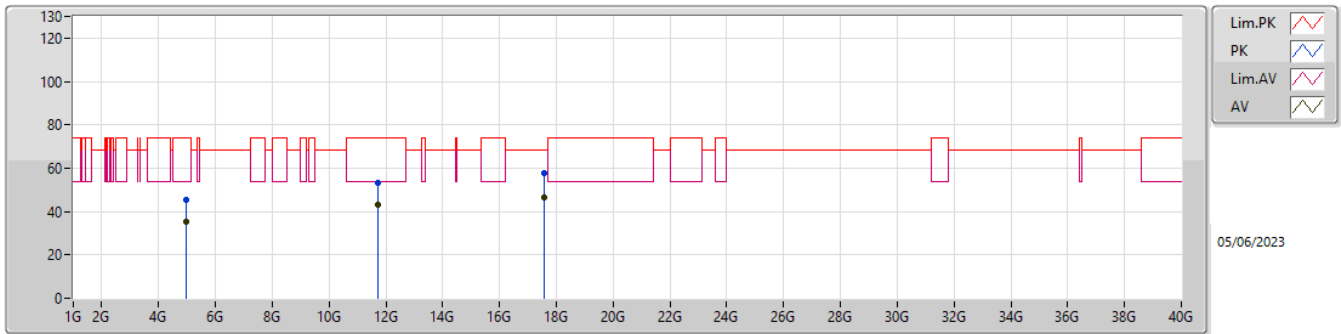
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.96207G	35.09	54.00	-18.91	3.65	3	Vertical	231	1.50	31.44	32.85	5.44	34.64
AV	11.51488G	42.82	54.00	-11.18	12.42	3	Vertical	318	1.50	30.40	38.66	8.33	34.57
AV	17.36468G	46.35	68.20	-21.85	14.25	3	Vertical	16	1.50	32.10	38.39	10.20	34.34
PK	4.96463G	45.38	74.00	-28.62	3.66	3	Vertical	231	1.50	41.72	32.86	5.44	34.64
PK	11.55848G	53.21	74.00	-20.79	12.27	3	Vertical	318	1.50	40.94	38.52	8.34	34.59
PK	17.36188G	56.44	68.20	-11.76	14.25	3	Vertical	16	1.50	42.19	38.39	10.20	34.34

Radiated Emissions above 1GHz_Mode 2



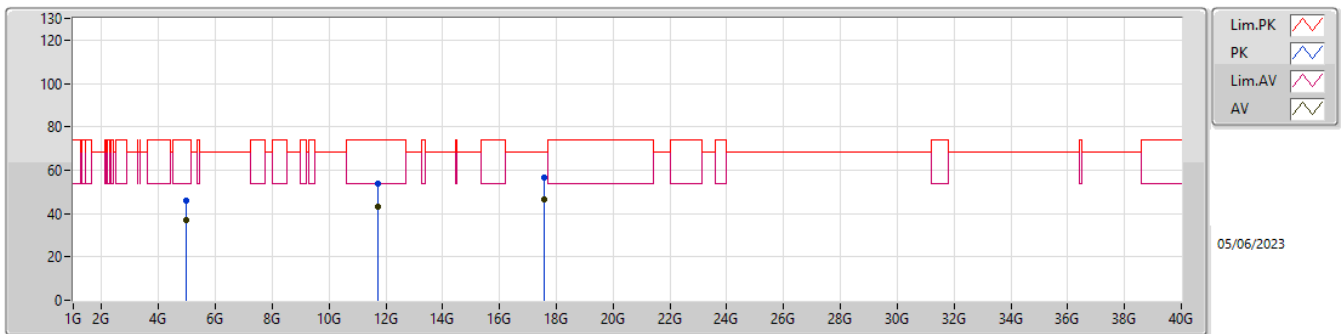
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.96023G	37.16	54.00	-16.84	3.64	3	Horizontal	9	2.66	33.52	32.84	5.44	34.64
AV	11.53008G	42.83	54.00	-11.17	12.36	3	Horizontal	83	1.50	30.47	38.61	8.33	34.58
AV	17.3054G	46.31	68.20	-21.89	14.10	3	Horizontal	41	1.50	32.21	38.22	10.18	34.30
PK	4.9597G	46.34	74.00	-27.66	3.64	3	Horizontal	9	2.66	42.70	32.84	5.44	34.64
PK	11.52856G	53.14	74.00	-20.86	12.36	3	Horizontal	83	1.50	40.78	38.61	8.33	34.58
PK	17.30164G	56.97	68.20	-11.23	14.07	3	Horizontal	41	1.50	42.90	38.20	10.17	34.30

Radiated Emissions above 1GHz_Mode 3



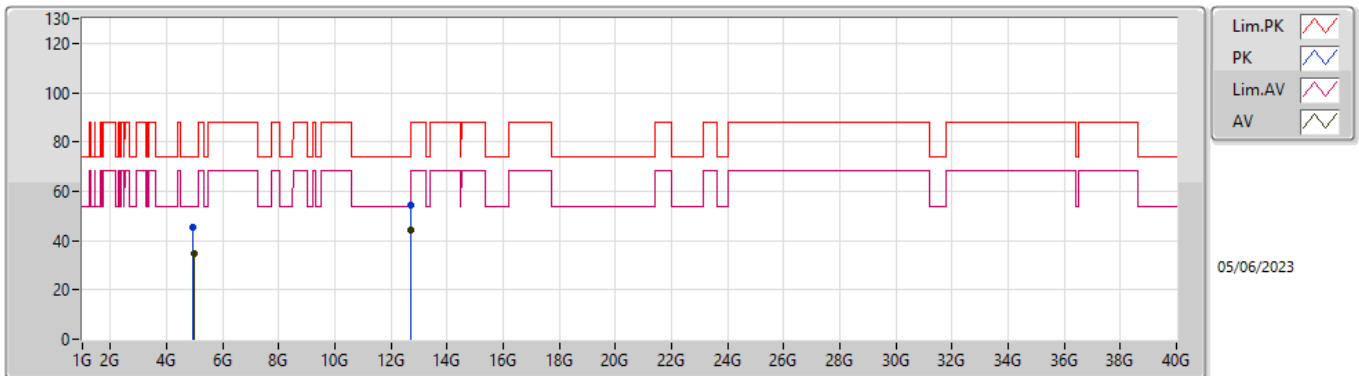
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.95978G	35.21	54.00	-18.79	3.64	3	Vertical	357	1.91	31.57	32.84	5.44	34.64
AV	11.70682G	43.08	54.00	-10.92	12.16	3	Vertical	21	1.65	30.92	38.41	8.39	34.64
AV	17.56871G	46.36	68.20	-21.84	14.68	3	Vertical	323	2.08	31.68	38.84	10.28	34.44
PK	4.95766G	45.14	74.00	-28.86	3.63	3	Vertical	357	1.91	41.51	32.83	5.44	34.64
PK	11.7135G	53.43	74.00	-20.57	12.18	3	Vertical	21	1.65	41.25	38.43	8.39	34.64
PK	17.56728G	57.49	68.20	-10.71	14.68	3	Vertical	323	2.08	42.81	38.84	10.28	34.44

Radiated Emissions above 1GHz_Mode 3



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.95983G	36.87	54.00	-17.13	3.64	3	Horizontal	11	2.72	33.23	32.84	5.44	34.64
AV	11.71469G	42.95	54.00	-11.05	12.18	3	Horizontal	151	2.35	30.77	38.43	8.39	34.64
AV	17.56619G	46.33	68.20	-21.87	14.67	3	Horizontal	50	2.13	31.66	38.83	10.28	34.44
PK	4.96019G	46.22	74.00	-27.78	3.64	3	Horizontal	11	2.72	42.58	32.84	5.44	34.64
PK	11.71474G	53.83	74.00	-20.17	12.18	3	Horizontal	151	2.35	41.65	38.43	8.39	34.64
PK	17.56895G	56.65	68.20	-11.55	14.68	3	Horizontal	50	2.13	41.97	38.84	10.28	34.44

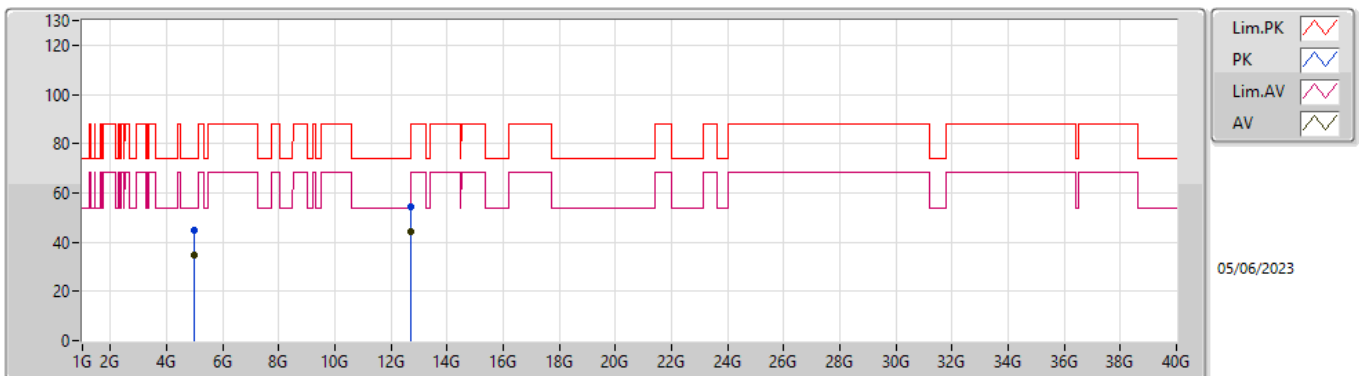
Radiated Emissions above 1GHz_Mode 4



05/06/2023

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.95954G	34.77	54.00	-19.23	NaN	3	Vertical	0	1.50	NaN	NaN	5.44	34.64
AV	12.68773G	44.27	54.00	-9.73	NaN	3	Vertical	173	2.32	NaN	NaN	8.66	34.05
PK	4.9586G	45.63	74.00	-28.37	NaN	3	Vertical	0	1.50	NaN	NaN	5.44	34.64
PK	12.69035G	54.41	74.00	-19.59	NaN	3	Vertical	173	2.32	NaN	NaN	8.66	34.05

Radiated Emissions above 1GHz_Mode 4



05/06/2023

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.96397G	34.99	54.00	-19.01	NaN	3	Horizontal	32	1.84	NaN	NaN	5.44	34.64
AV	12.69461G	44.20	54.00	-9.80	NaN	3	Horizontal	66	1.65	NaN	NaN	8.66	34.04
PK	4.96115G	45.05	74.00	-28.95	NaN	3	Horizontal	32	1.84	NaN	NaN	5.44	34.64
PK	12.68741G	54.43	74.00	-19.57	NaN	3	Horizontal	66	1.65	NaN	NaN	8.66	34.05

————THE END————