

FCC Radio Test Report

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

The product was received on Feb. 24, 2022, and testing was started from Feb. 24, 2022 and completed on Jul. 09, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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Report Template No.: HE1-C9 Ver4.2
FCC ID: C3K2043

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: Jenny Yang

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	Support
1	AWAN	1415-09GL0QS	PIFA	I-Pex	2.4G+5G+BT
2	AWAN	1415-09GK0QS	PIFA	I-Pex	2.4G+5G

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

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

Support diversity function that each single chain was tested and recorded in this test report.

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

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

For BT function:

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

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

For 5GHz function:

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

Support diversity function that each single chain was tested and recorded in this test report.

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

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

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-BR(1Mbps)	0.741	1.3	2.885m	1k
BT-EDR(2Mbps)	0.741	1.3	2.887m	1k
BT-EDR(3Mbps)	0.742	1.3	2.889m	1k

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

1.2 Testing Applied Standards

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

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

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (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	Wayne Chiu	21.6~22.7°C / 54~62%	27/Apr/2022~04/May/2022
RF Conducted	TH01-HY	Johnny Yu	21.8~25.3°C / 53~64%	24/Feb/2022~25/May/2022
Radiated	03CH02-HY	Lego Lin	20.1~25°C / 50~60%	01/Mar/2022~09/Jul/2022
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: 886-3-318-0787 FAX: 886-3-318-0287			
Test site Designation No. TW0008 with FCC.				

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	QRCT 4.0.00189.0
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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 ☒ Non-adaptive frequency hopping systems (Non-AFH) ☒ 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		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

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

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

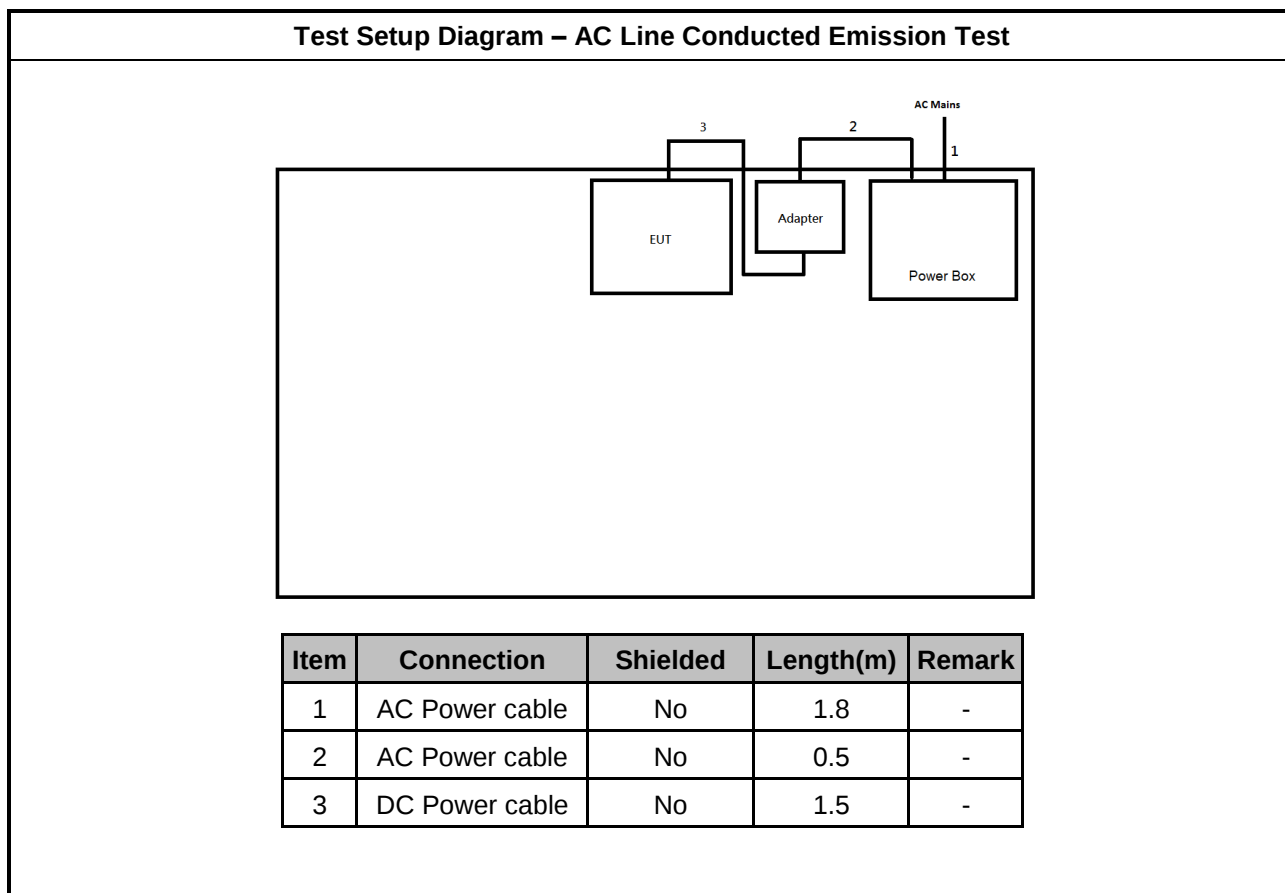
2.3 Support Equipment

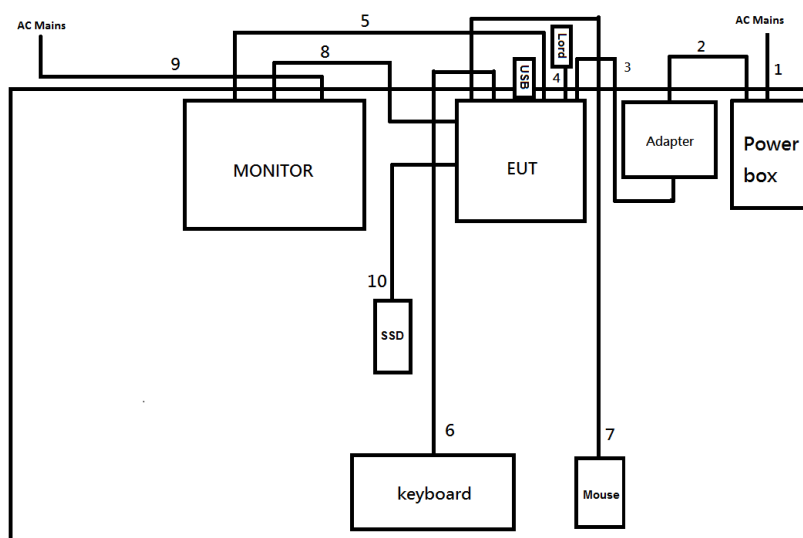
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Mouse(USB)	Lenovo	MOGOUO	-	-
2	Portable SSD(3.1)	TRANSCEND	TS240GESD240C	-	-
3	USB 3.0 Flash	SandDisk	SDDDC-128G-G36	-	-
4	Monitor	ASUS	PB287	-	-
5	Load	Sporton	Sporton	-	-
6	Keyboard	IBM	SK-8815	-	-
7	AC Adapter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

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

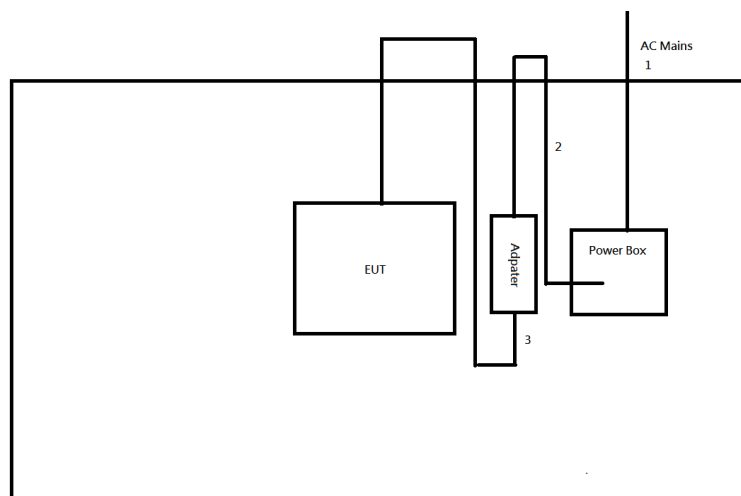
Support Equipment –Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Mouse(USB)	Lenovo	MOGOUO	-	-
2	Portable SSD(3.1)	TRANSCEND	TS240GESD240C	-	-
3	USB 3.0 Flash	SandDisk	SDDDC-128G-G36	-	-
4	Monitor	ASUS	PB287	-	-
5	load	Sporton	Sporton	-	-
6	Keyboard	IBM	SK-8815	-	-
7	AC Adapter	Microsoft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

2.4 Test Setup Diagram

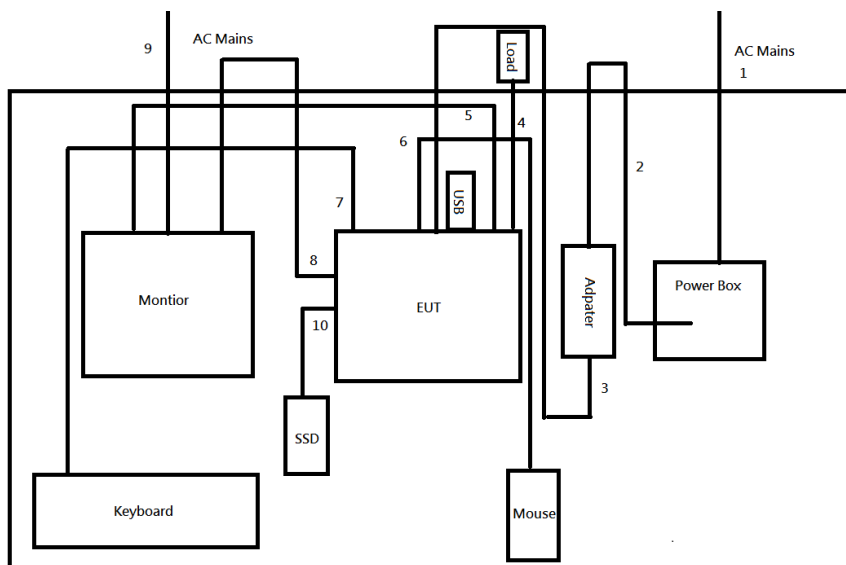


Test Setup Diagram - AC Line Conducted Emission Test (Full port)


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

Test Setup Diagram – Radiated Test


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

Test Setup Diagram - Radiated Test (Full port)


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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

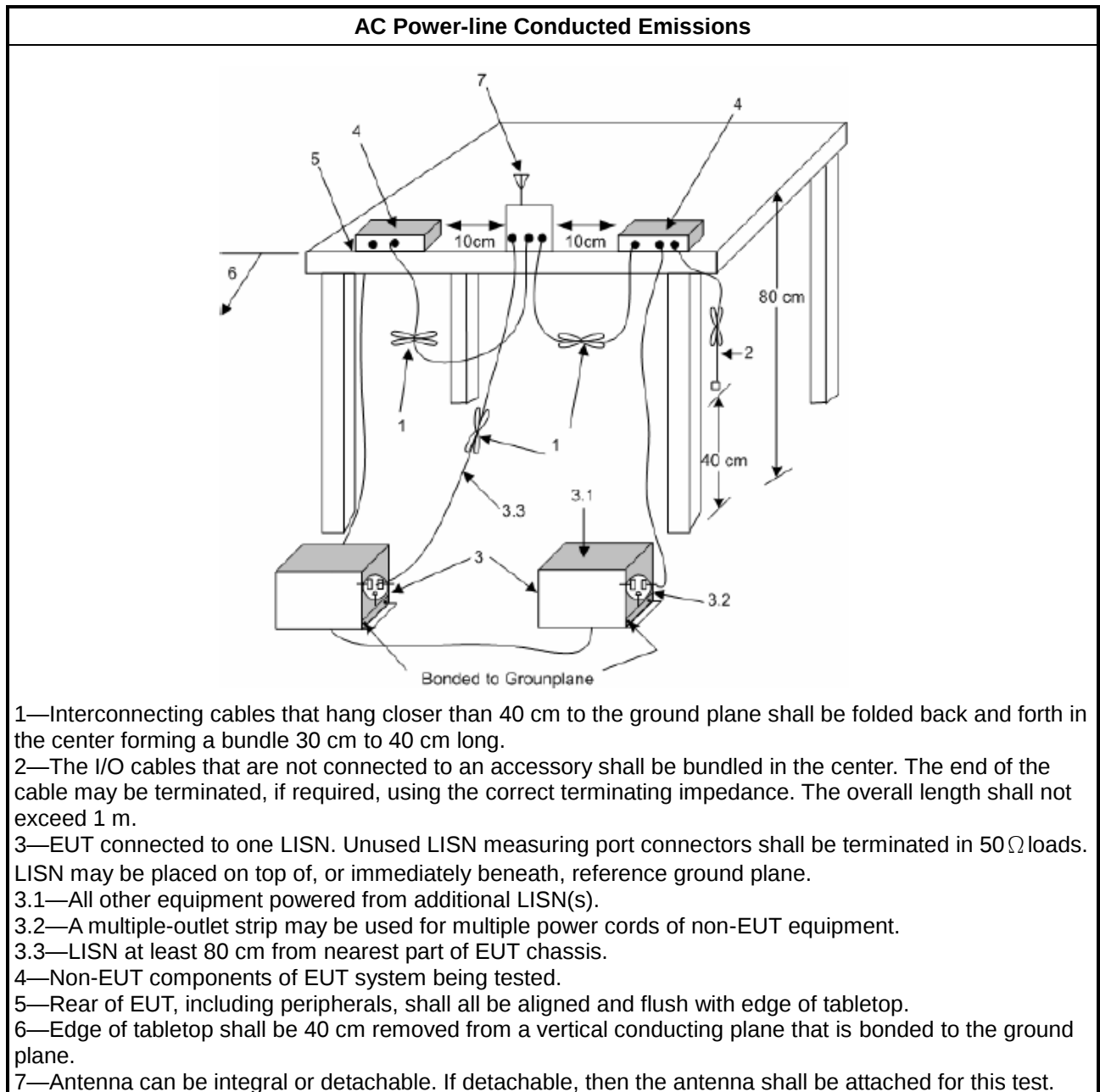
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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	
2400-2483.5 MHz Band:	
	$N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	$75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

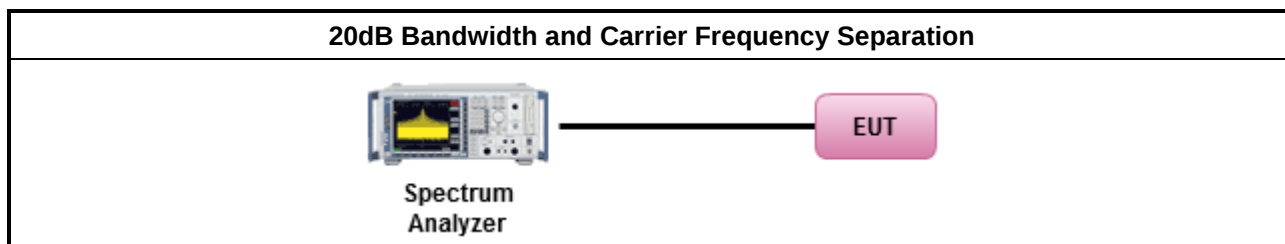
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
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	
2400-2483.5 MHz Band:	
	$N \geq 75$; Power 30dBm; EIRP 36dBm
	$75 > N \geq 15$; Power 21dBm; EIRP 27dBm
N: Number of Hopping Frequencies	

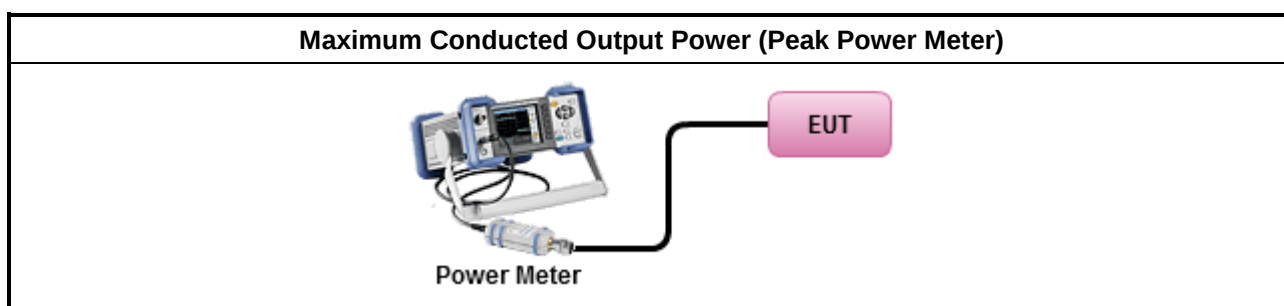
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
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	
2400-2483.5 MHz Band:	
	$N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	$75 > N \geq 15$ 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

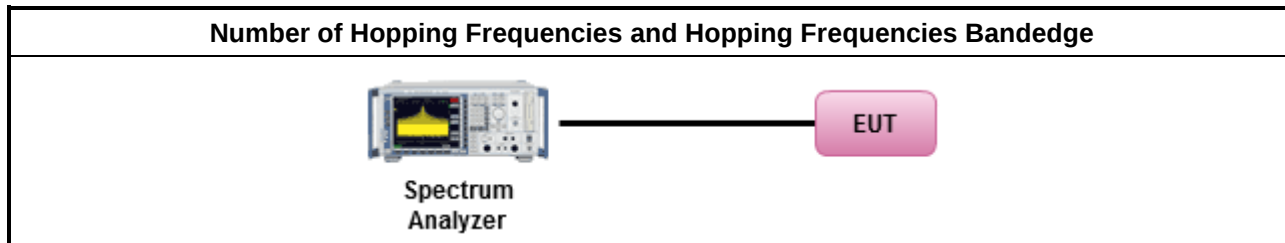
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
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	
2400-2483.5 MHz Band:	
	$N \geq 75$; 0.4s in $N \times 0.4$ period
	$75 > N \geq 15$; 0.4s in $N \times 0.4$ period
N: Number of Hopping Frequencies	

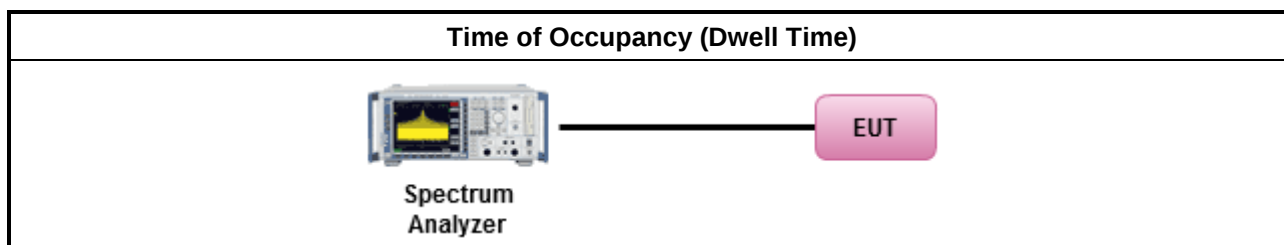
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.	
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.	
	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.	

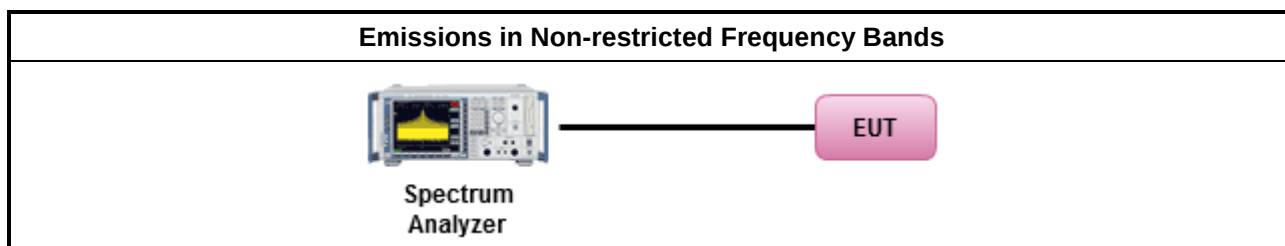
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
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

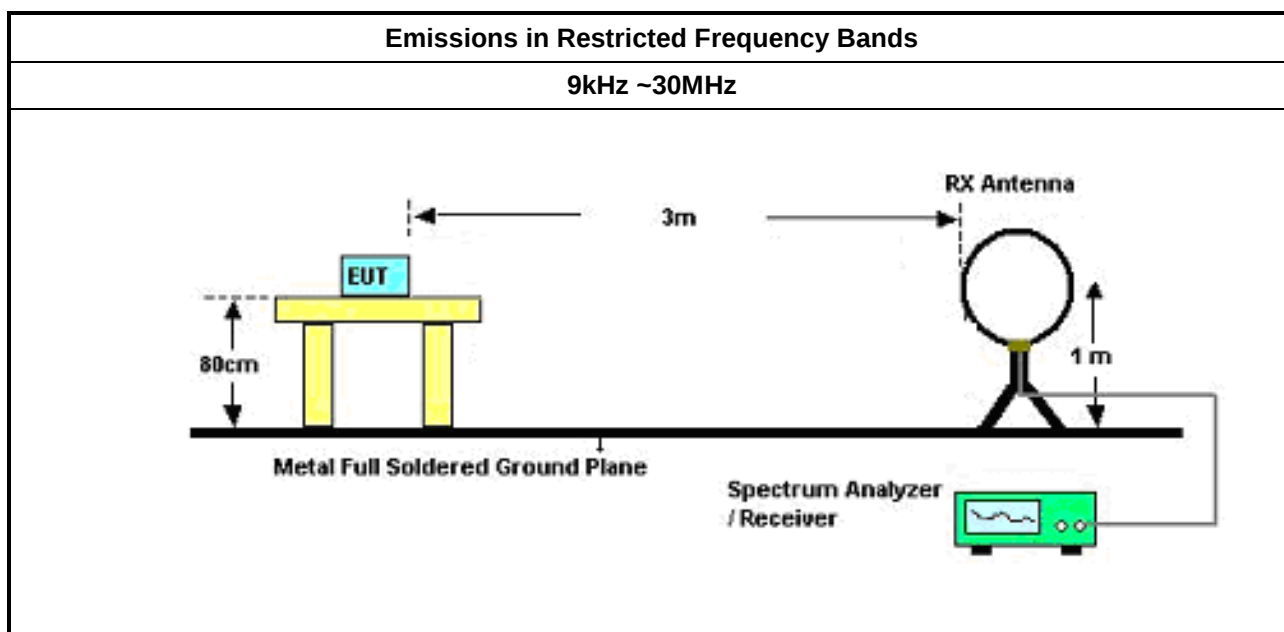
Test Method	
- The average emission levels shall be measured in [hopping duty factor]. - Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. - For the transmitter unwanted emissions shall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

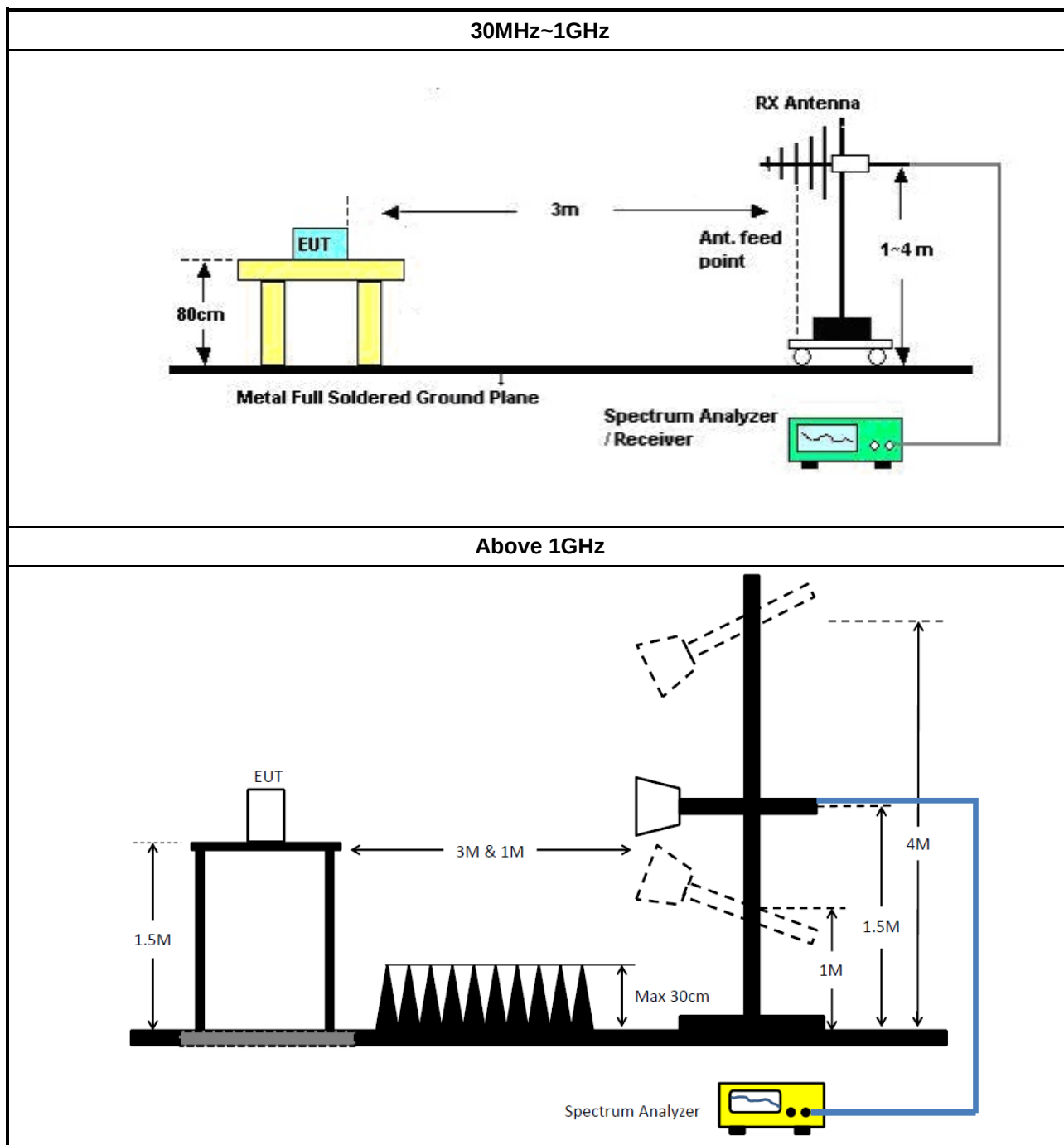
3.7.4 Measurement Results Calculation

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)

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	ESR3	102051	9kHz ~ 3.6GHz	21/May/2021	20/May/2022
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRO NIK	NSLK 8127	8127477	9kHz ~ 30MHz	15/Mar/2022	14/Mar/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

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

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	01/Aug/2021	31/Jul/2022
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	12/Oct/2021	11/Oct/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	03/Nov/2021	02/Nov/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	14/Sep/2021	13/Sep/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	10/Mar/2022	09/Mar/2023
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	04/May/2022	03/May/2023
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	04/May/2022	03/May/2023
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	15GHz~40GHz	12/May/2021	11/May/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-15247_FS	Sporton	v5.10.7.14	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

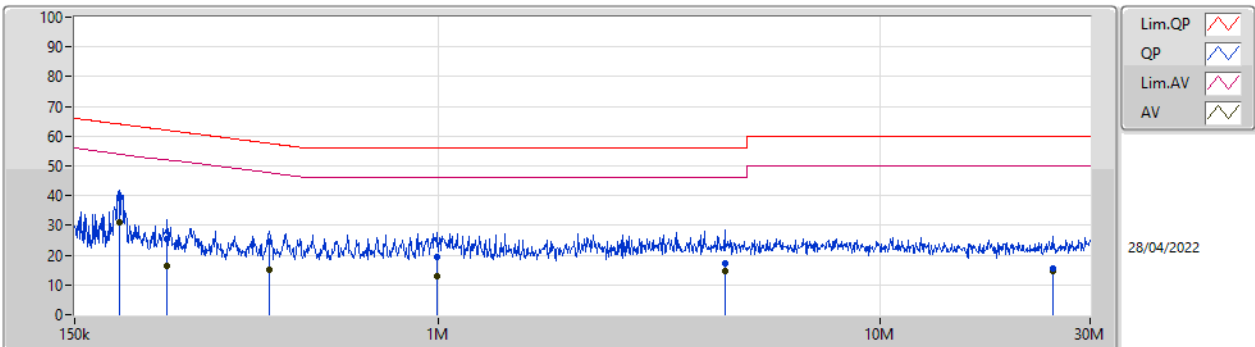
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	191.358k	31.27	53.97	-22.70	Neutral
Mode 2	Pass	QP	172.493k	49.70	64.83	-15.13	Line

Result

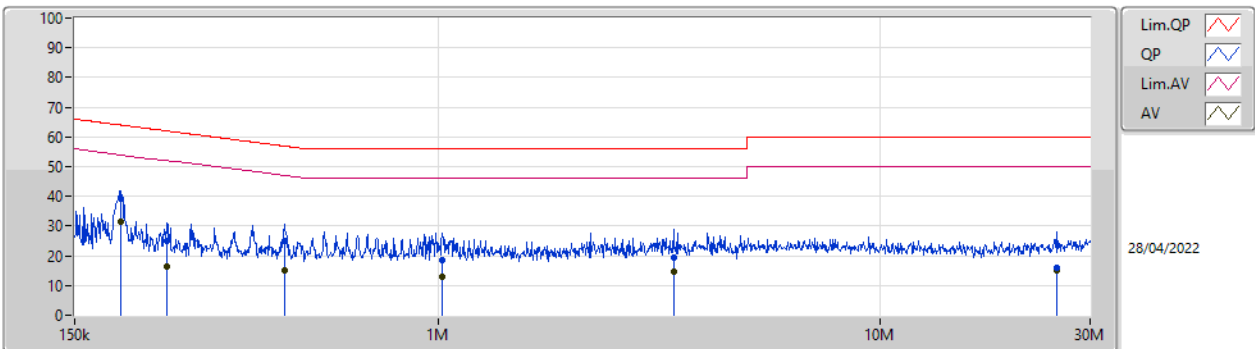
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	189.08k	39.03	64.07	-25.04	Line	-
Mode 1	Pass	AV	189.08k	31.25	54.07	-22.82	Line	-
Mode 1	Pass	QP	243.148k	25.52	61.98	-36.46	Line	-
Mode 1	Pass	AV	243.148k	16.47	51.98	-35.51	Line	-
Mode 1	Pass	QP	415.134k	24.45	57.55	-33.10	Line	-
Mode 1	Pass	AV	415.134k	14.99	47.55	-32.56	Line	-
Mode 1	Pass	QP	991.146k	19.34	56.00	-36.66	Line	-
Mode 1	Pass	AV	991.146k	12.87	46.00	-33.13	Line	-
Mode 1	Pass	QP	4.464M	17.25	56.00	-38.75	Line	-
Mode 1	Pass	AV	4.464M	14.75	46.00	-31.25	Line	-
Mode 1	Pass	QP	24.648M	15.59	60.00	-44.41	Line	-
Mode 1	Pass	AV	24.648M	14.49	50.00	-35.51	Line	-
Mode 1	Pass	QP	191.358k	39.23	63.97	-24.74	Neutral	-
Mode 1	Pass	AV	191.358k	31.27	53.97	-22.70	Neutral	-
Mode 1	Pass	QP	242.179k	25.01	62.02	-37.01	Neutral	-
Mode 1	Pass	AV	242.179k	16.26	52.02	-35.76	Neutral	-
Mode 1	Pass	QP	447.846k	25.06	56.92	-31.86	Neutral	-
Mode 1	Pass	AV	447.846k	15.28	46.92	-31.64	Neutral	-
Mode 1	Pass	QP	1.019M	18.45	56.00	-37.55	Neutral	-
Mode 1	Pass	AV	1.019M	12.82	46.00	-33.18	Neutral	-
Mode 1	Pass	QP	3.417M	19.54	56.00	-36.46	Neutral	-
Mode 1	Pass	AV	3.417M	14.47	46.00	-31.53	Neutral	-
Mode 1	Pass	QP	25.145M	16.12	60.00	-43.88	Neutral	-
Mode 1	Pass	AV	25.145M	15.04	50.00	-34.96	Neutral	-
Mode 2	Pass	QP	172.493k	49.70	64.83	-15.13	Line	-
Mode 2	Pass	AV	172.493k	37.14	54.83	-17.69	Line	-
Mode 2	Pass	QP	208.925k	39.38	63.25	-23.87	Line	-
Mode 2	Pass	AV	208.925k	26.20	53.25	-27.05	Line	-
Mode 2	Pass	QP	411.832k	29.16	57.61	-28.45	Line	-
Mode 2	Pass	AV	411.832k	20.41	47.61	-27.20	Line	-
Mode 2	Pass	QP	999.091k	24.73	56.00	-31.27	Line	-
Mode 2	Pass	AV	999.091k	17.52	46.00	-28.48	Line	-
Mode 2	Pass	QP	4.429M	25.34	56.00	-30.66	Line	-
Mode 2	Pass	AV	4.429M	17.91	46.00	-28.09	Line	-
Mode 2	Pass	QP	19.014M	22.76	60.00	-37.24	Line	-
Mode 2	Pass	AV	19.014M	16.72	50.00	-33.28	Line	-
Mode 2	Pass	QP	173.876k	48.74	64.78	-16.04	Neutral	-
Mode 2	Pass	AV	173.876k	37.03	54.78	-17.75	Neutral	-
Mode 2	Pass	QP	207.263k	41.19	63.30	-22.11	Neutral	-
Mode 2	Pass	AV	207.263k	27.95	53.30	-25.35	Neutral	-
Mode 2	Pass	QP	447.846k	32.59	56.92	-24.33	Neutral	-
Mode 2	Pass	AV	447.846k	23.51	46.92	-23.41	Neutral	-
Mode 2	Pass	QP	979.346k	21.97	56.00	-34.03	Neutral	-
Mode 2	Pass	AV	979.346k	14.01	46.00	-31.99	Neutral	-
Mode 2	Pass	QP	3.283M	24.55	56.00	-31.45	Neutral	-
Mode 2	Pass	AV	3.283M	16.23	46.00	-29.77	Neutral	-
Mode 2	Pass	QP	19.789M	19.38	60.00	-40.62	Neutral	-
Mode 2	Pass	AV	19.789M	15.30	50.00	-34.70	Neutral	-

Conducted Emissions at Powerline_Mode 1



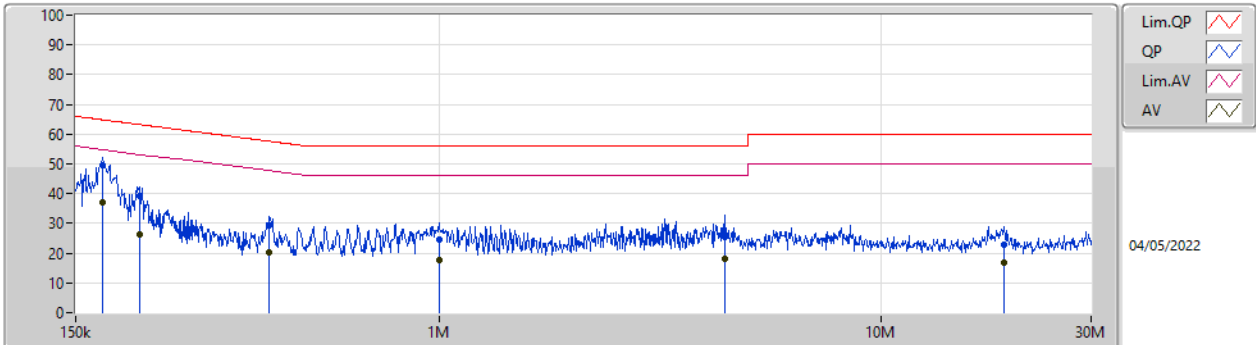
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT				
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)				
QP	189.08k	39.03	64.07	-25.04	19.63	Line	-	19.40	9.69	0.03	9.91				
AV	189.08k	31.25	54.07	-22.82	19.63	Line	-	11.62	9.69	0.03	9.91				
QP	243.148k	25.52	61.98	-36.46	19.63	Line	-	5.89	9.69	0.03	9.91				
AV	243.148k	16.47	51.98	-35.51	19.63	Line	-	-3.16	9.69	0.03	9.91				
QP	415.134k	24.45	57.55	-33.10	19.63	Line	-	4.82	9.68	0.04	9.91				
AV	415.134k	14.99	47.55	-32.56	19.63	Line	-	-4.64	9.68	0.04	9.91				
QP	991.146k	19.34	56.00	-36.66	19.65	Line	-	-0.31	9.68	0.05	9.92				
AV	991.146k	12.87	46.00	-33.13	19.65	Line	-	-6.78	9.68	0.05	9.92				
QP	4.464M	17.25	56.00	-38.75	19.78	Line	-	-2.53	9.72	0.14	9.92				
AV	4.464M	14.75	46.00	-31.25	19.78	Line	-	-5.03	9.72	0.14	9.92				
QP	24.648M	15.59	60.00	-44.41	20.04	Line	-	-4.45	9.80	0.31	9.93				
AV	24.648M	14.49	50.00	-35.51	20.04	Line	-	-5.55	9.80	0.31	9.93				

Conducted Emissions at Powerline_Mode 1



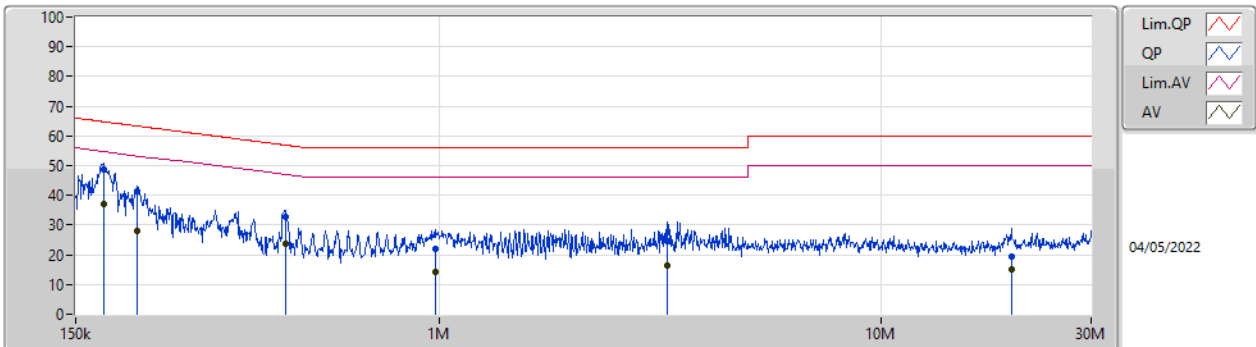
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT				
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)				
QP	191.358k	39.23	63.97	-24.74	19.66	Neutral	-	19.57	9.72	0.03	9.91				
AV	191.358k	31.27	53.97	-22.70	19.66	Neutral	-	11.61	9.72	0.03	9.91				
QP	242.179k	25.01	62.02	-37.01	19.66	Neutral	-	5.35	9.72	0.03	9.91				
AV	242.179k	16.26	52.02	-35.76	19.66	Neutral	-	-3.40	9.72	0.03	9.91				
QP	447.846k	25.06	56.92	-31.86	19.67	Neutral	-	5.39	9.72	0.04	9.91				
AV	447.846k	15.28	46.92	-31.64	19.67	Neutral	-	-4.39	9.72	0.04	9.91				
QP	1.019M	18.45	56.00	-37.55	19.70	Neutral	-	-1.25	9.73	0.05	9.92				
AV	1.019M	12.82	46.00	-33.18	19.70	Neutral	-	-6.88	9.73	0.05	9.92				
QP	3.417M	19.54	56.00	-36.46	19.80	Neutral	-	-0.26	9.76	0.12	9.92				
AV	3.417M	14.47	46.00	-31.53	19.80	Neutral	-	-5.33	9.76	0.12	9.92				
QP	25.145M	16.12	60.00	-43.88	20.31	Neutral	-	-4.19	10.07	0.31	9.93				
AV	25.145M	15.04	50.00	-34.96	20.31	Neutral	-	-5.27	10.07	0.31	9.93				

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	172.493k	49.70	64.83	-15.13	19.63	Line	-	30.07	9.69	0.03	9.91			
AV	172.493k	37.14	54.83	-17.69	19.63	Line	-	17.51	9.69	0.03	9.91			
QP	208.925k	39.38	63.25	-23.87	19.63	Line	-	19.75	9.69	0.03	9.91			
AV	208.925k	26.20	53.25	-27.05	19.63	Line	-	6.57	9.69	0.03	9.91			
QP	411.832k	29.16	57.61	-28.45	19.63	Line	-	9.53	9.68	0.04	9.91			
AV	411.832k	20.41	47.61	-27.20	19.63	Line	-	0.78	9.68	0.04	9.91			
QP	999.091k	24.73	56.00	-31.27	19.65	Line	-	5.08	9.68	0.05	9.92			
AV	999.091k	17.52	46.00	-28.48	19.65	Line	-	-2.13	9.68	0.05	9.92			
QP	4.429M	25.34	56.00	-30.66	19.78	Line	-	5.56	9.72	0.14	9.92			
AV	4.429M	17.91	46.00	-28.09	19.78	Line	-	-1.87	9.72	0.14	9.92			
QP	19.014M	22.76	60.00	-37.24	19.98	Line	-	2.78	9.79	0.26	9.93			
AV	19.014M	16.72	50.00	-33.28	19.98	Line	-	-3.26	9.79	0.26	9.93			

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	173.876k	48.74	64.78	-16.04	19.66	Neutral	-	29.08	9.72	0.03	9.91			
AV	173.876k	37.03	54.78	-17.75	19.66	Neutral	-	17.37	9.72	0.03	9.91			
QP	207.263k	41.19	63.30	-22.11	19.66	Neutral	-	21.53	9.72	0.03	9.91			
AV	207.263k	27.95	53.30	-25.35	19.66	Neutral	-	8.29	9.72	0.03	9.91			
QP	447.846k	32.59	56.92	-24.33	19.67	Neutral	-	12.92	9.72	0.04	9.91			
AV	447.846k	23.51	46.92	-23.41	19.67	Neutral	-	3.84	9.72	0.04	9.91			
QP	979.346k	21.97	56.00	-34.03	19.70	Neutral	-	2.27	9.73	0.05	9.92			
AV	979.346k	14.01	46.00	-31.99	19.70	Neutral	-	-5.69	9.73	0.05	9.92			
QP	3.283M	24.55	56.00	-31.45	19.79	Neutral	-	4.76	9.75	0.12	9.92			
AV	3.283M	16.23	46.00	-29.77	19.79	Neutral	-	-3.56	9.75	0.12	9.92			
QP	19.789M	19.38	60.00	-40.62	20.19	Neutral	-	-0.81	9.99	0.27	9.93			
AV	19.789M	15.30	50.00	-34.70	20.19	Neutral	-	-4.89	9.99	0.27	9.93			

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	881.25k	837.081k	837KF1D	877.5k	835.832k
BT-EDR(2Mbps)	1.309M	1.201M	1M20G1D	1.306M	1.194M
BT-EDR(3Mbps)	1.264M	1.209M	1M21G1D	1.26M	1.201M

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

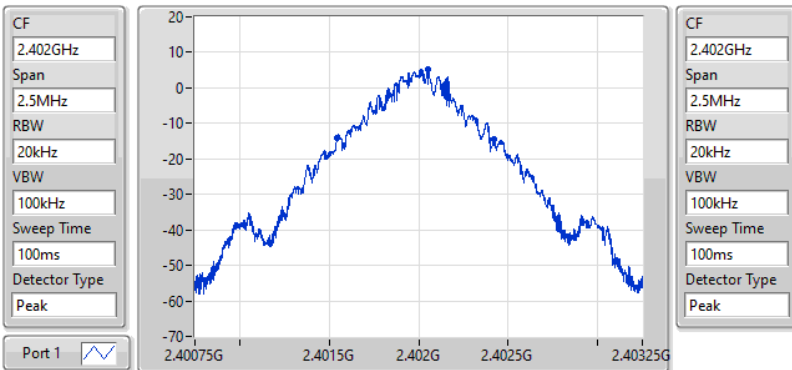
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	881.25k	837.081k
2440MHz	Pass	Inf	877.5k	835.832k
2480MHz	Pass	Inf	878.75k	837.081k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.309M	1.194M
2440MHz	Pass	Inf	1.306M	1.197M
2480MHz	Pass	Inf	1.309M	1.201M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.26M	1.203M
2440MHz	Pass	Inf	1.263M	1.201M
2480MHz	Pass	Inf	1.264M	1.209M

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

BT-BR(1Mbps)

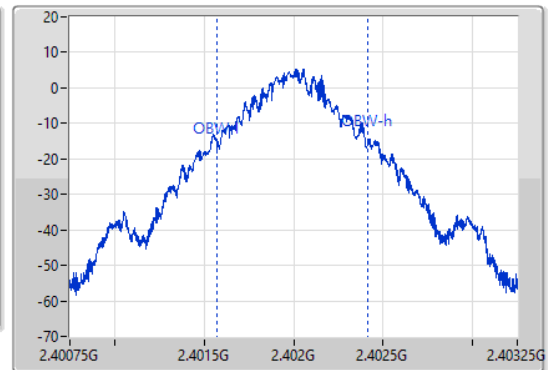
2402MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
881.25k	2.401543G	2.402424G	837.081k	2.401574G	2.402411G	Inf	1

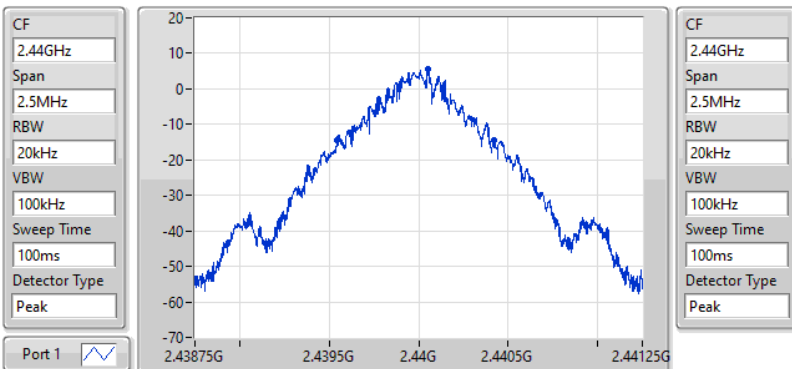
EBW-FS

04/05/2022



BT-BR(1Mbps)

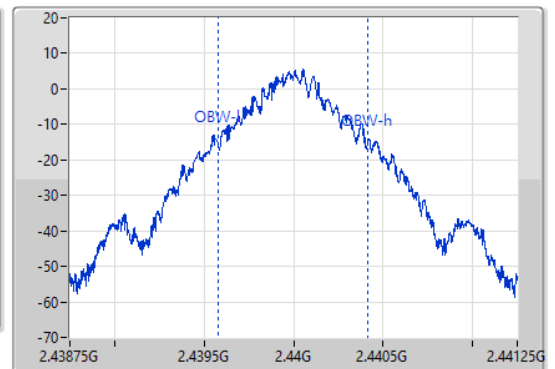
2440MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
877.5k	2.439543G	2.44042G	835.832k	2.439575G	2.440411G	Inf	1

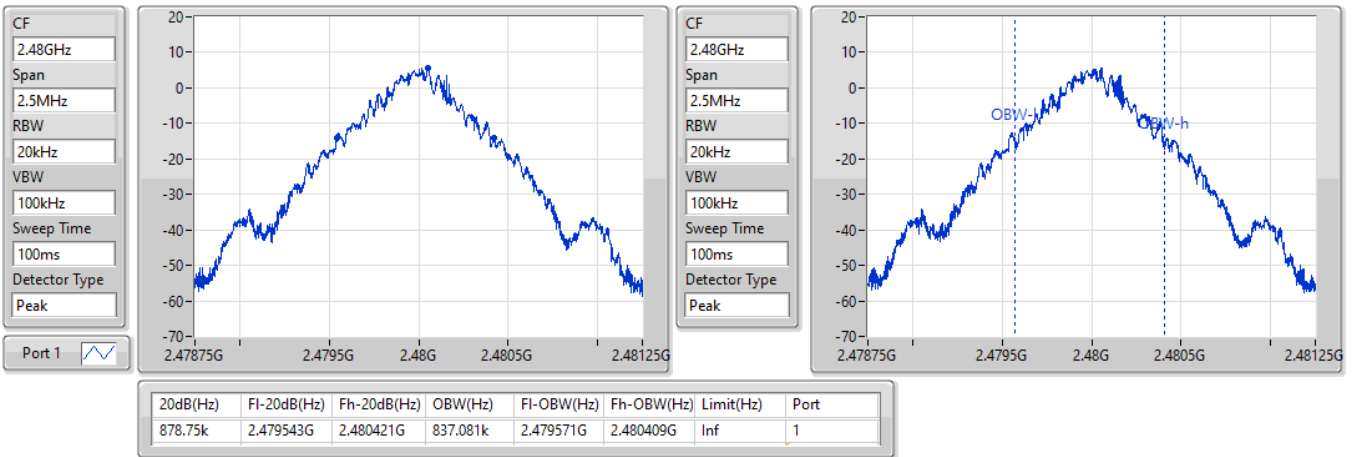
EBW-FS

04/05/2022

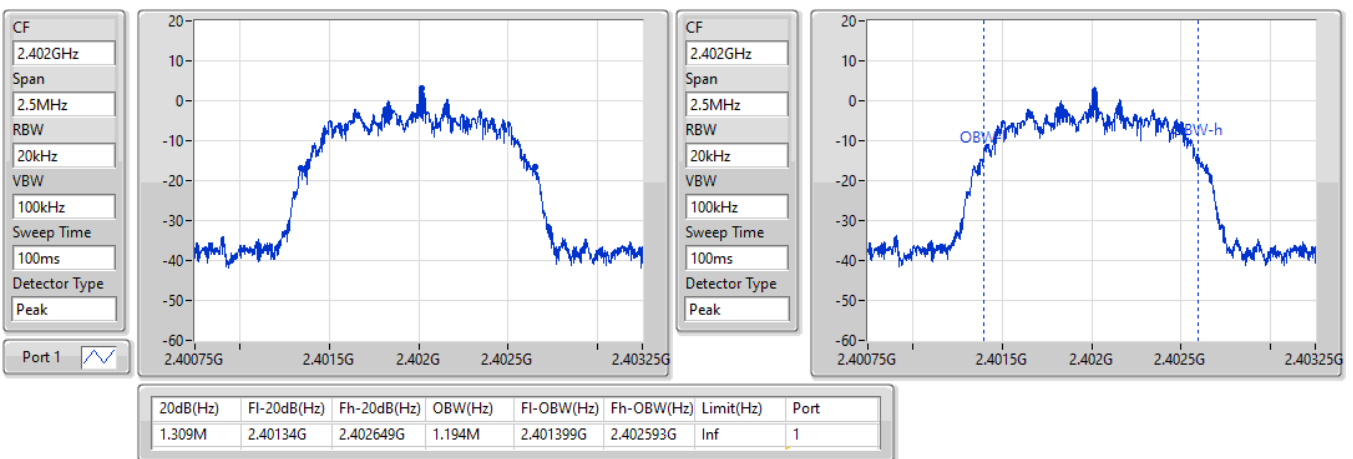


BT-BR(1Mbps)
EBW-FS
2480MHz

04/05/2022


BT-EDR(2Mbps)
EBW-FS
2402MHz

04/05/2022

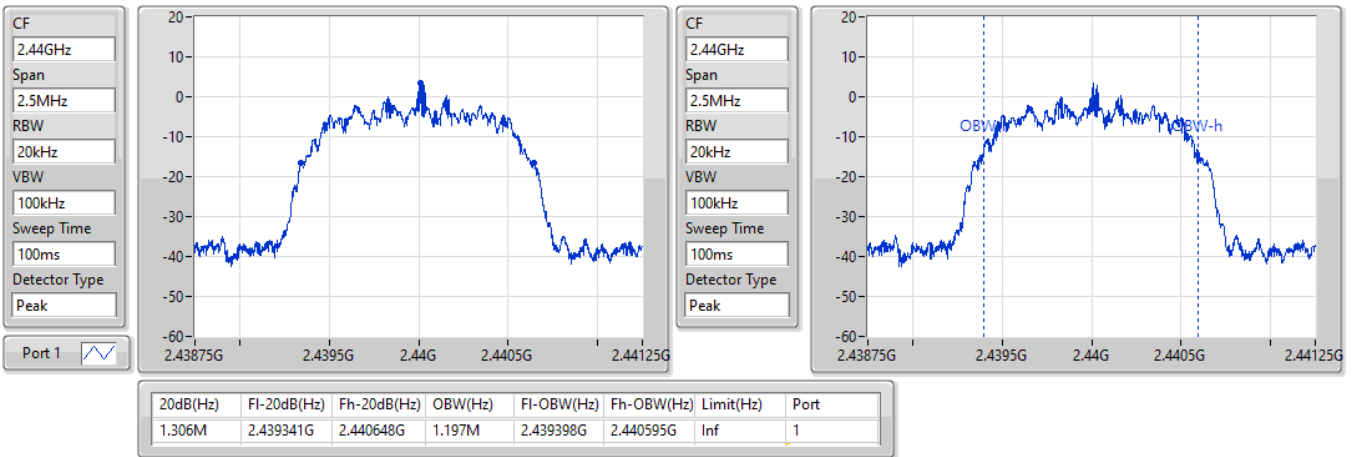


BT-EDR(2Mbps)

EBW-FS

2440MHz

04/05/2022

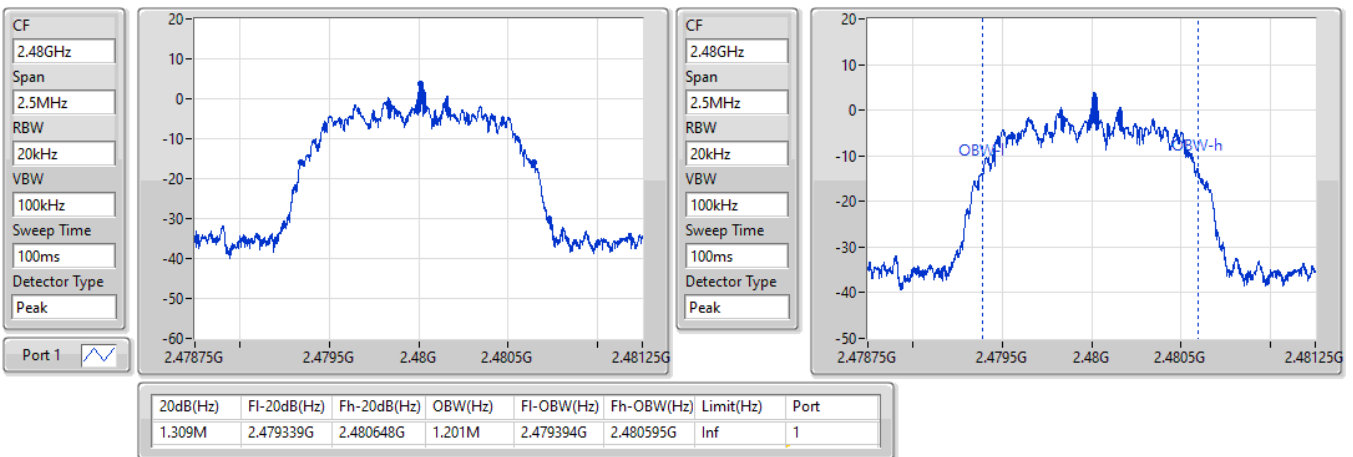


BT-EDR(2Mbps)

EBW-FS

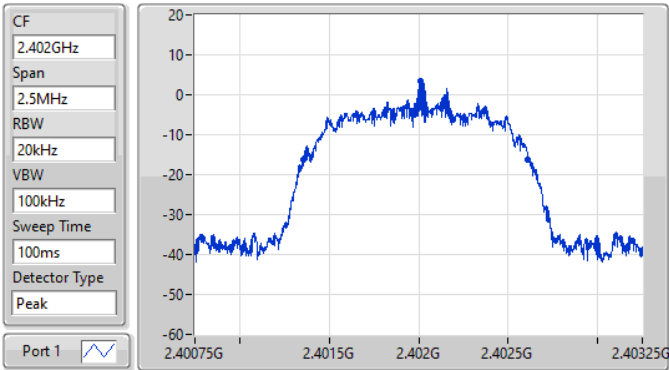
2480MHz

04/05/2022



BT-EDR(3Mbps)

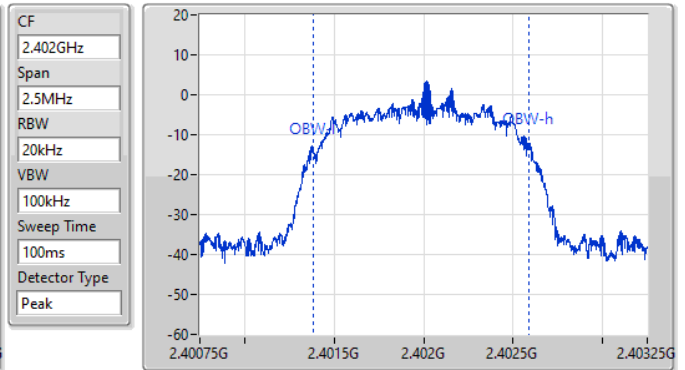
2402MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.26M	2.401353G	2.402613G	1.203M	2.401387G	2.40259G	Inf	1

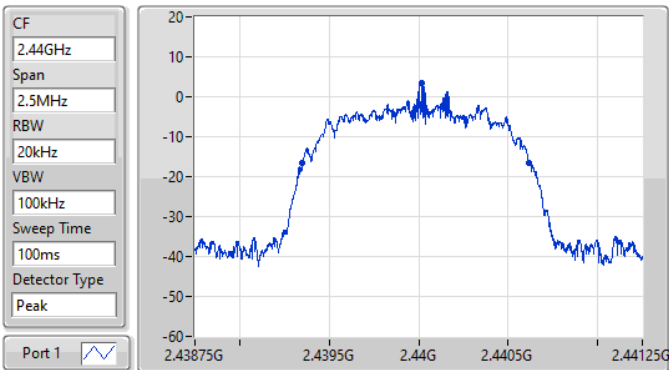
EBW-FS

04/05/2022



BT-EDR(3Mbps)

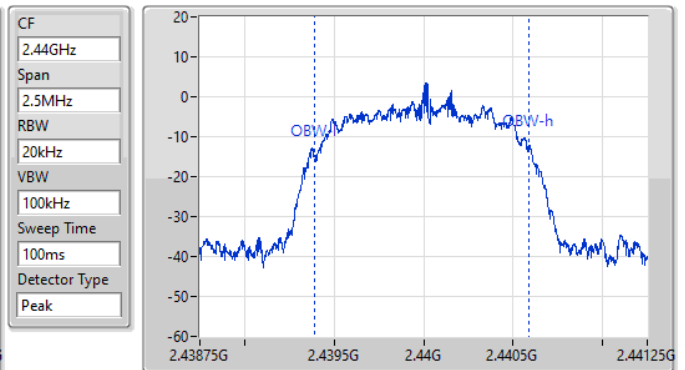
2440MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.263M	2.439351G	2.440614G	1.201M	2.439389G	2.44059G	Inf	1

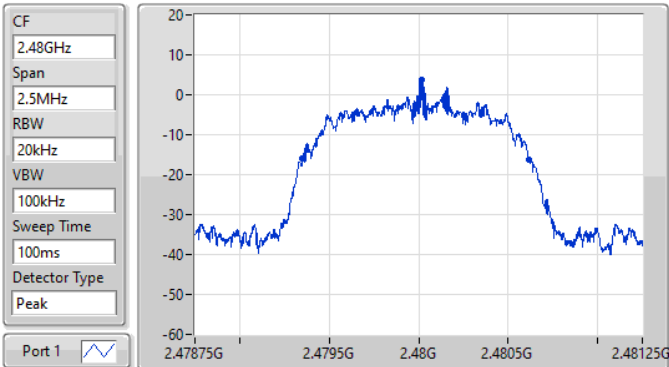
EBW-FS

04/05/2022



BT-EDR(3Mbps)

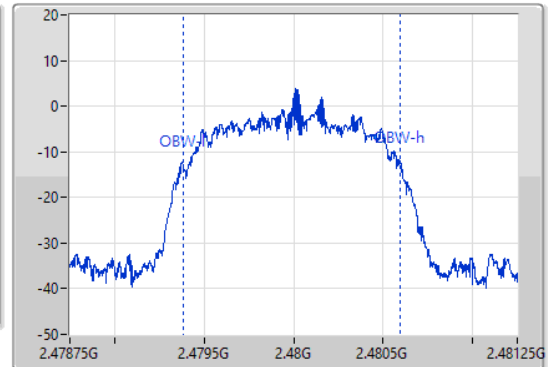
2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.264M	2.47935G	2.480614G	1.209M	2.479383G	2.480592G	Inf	1

EBW-FS

04/05/2022





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0005M	997.5k
BT-EDR(2Mbps)	1.002M	1.0005M
BT-EDR(3Mbps)	1.0005M	999k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402014G	2.403012G	997.5k	586.9125k
2440MHz	Pass	2.440013G	2.441012G	999k	584.415k
2480MHz	Pass	2.479011G	2.480012G	1.0005M	585.2475k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.40201G	2.403012G	1.002M	871.794k
2440MHz	Pass	2.440011G	2.441013G	1.002M	869.796k
2480MHz	Pass	2.479013G	2.480013G	1.0005M	871.794k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402011G	2.403012G	1.0005M	839.16k
2440MHz	Pass	2.440013G	2.441012G	999k	841.158k
2480MHz	Pass	2.479011G	2.480012G	1.0005M	841.824k

BT-BR(1Mbps)

2.402G/2.403GHz

Channel Separation-FS

04/05/2022

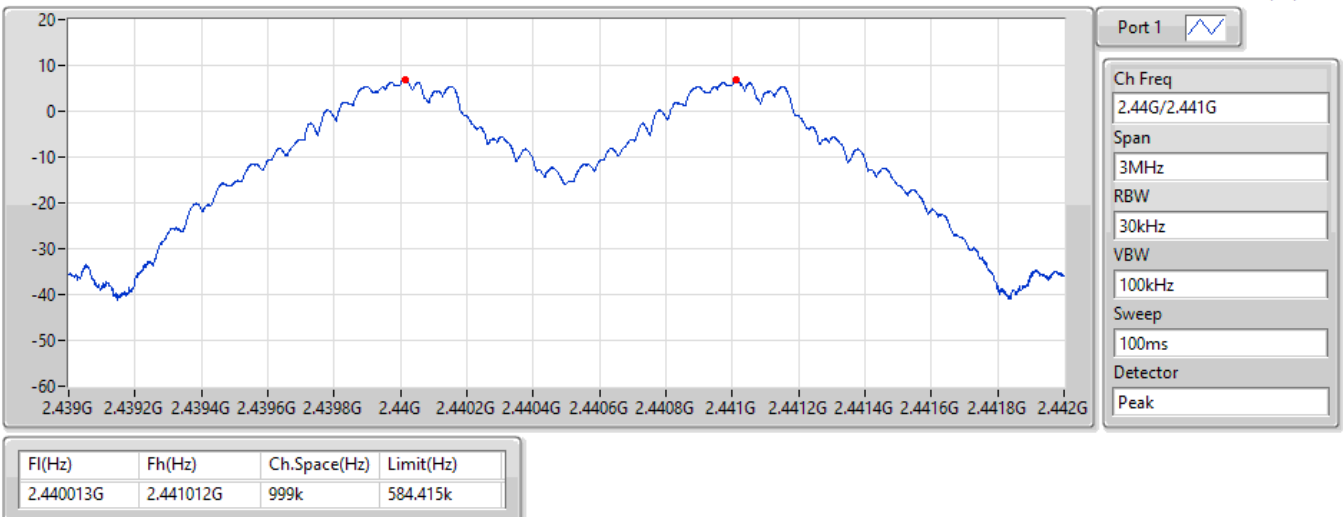


BT-BR(1Mbps)

2.44G/2.441GHz

Channel Separation-FS

04/05/2022

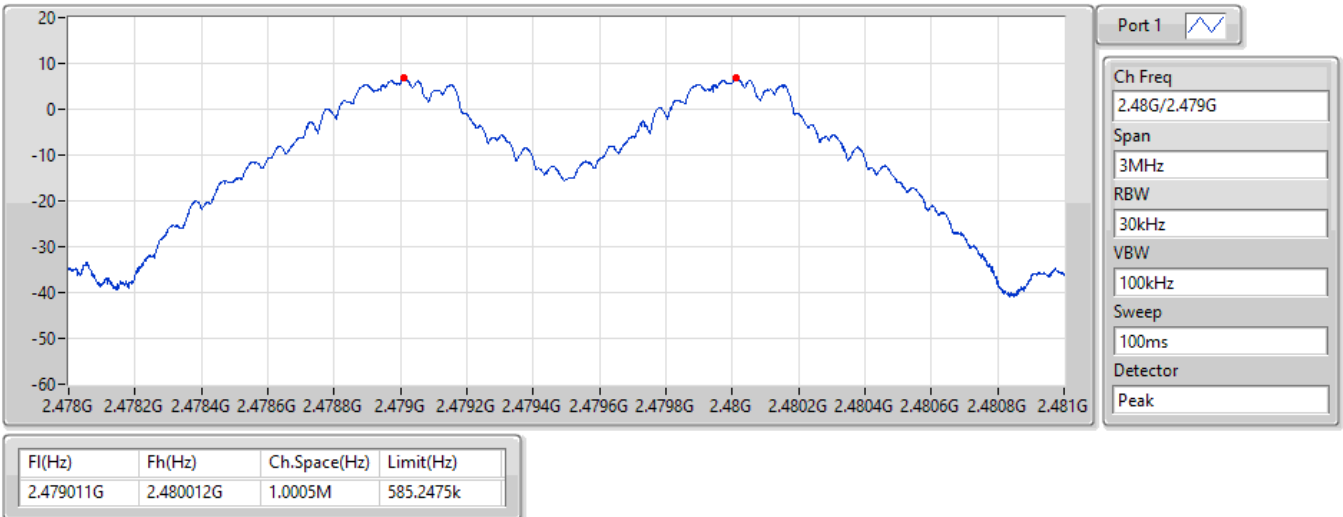


BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation-FS

04/05/2022

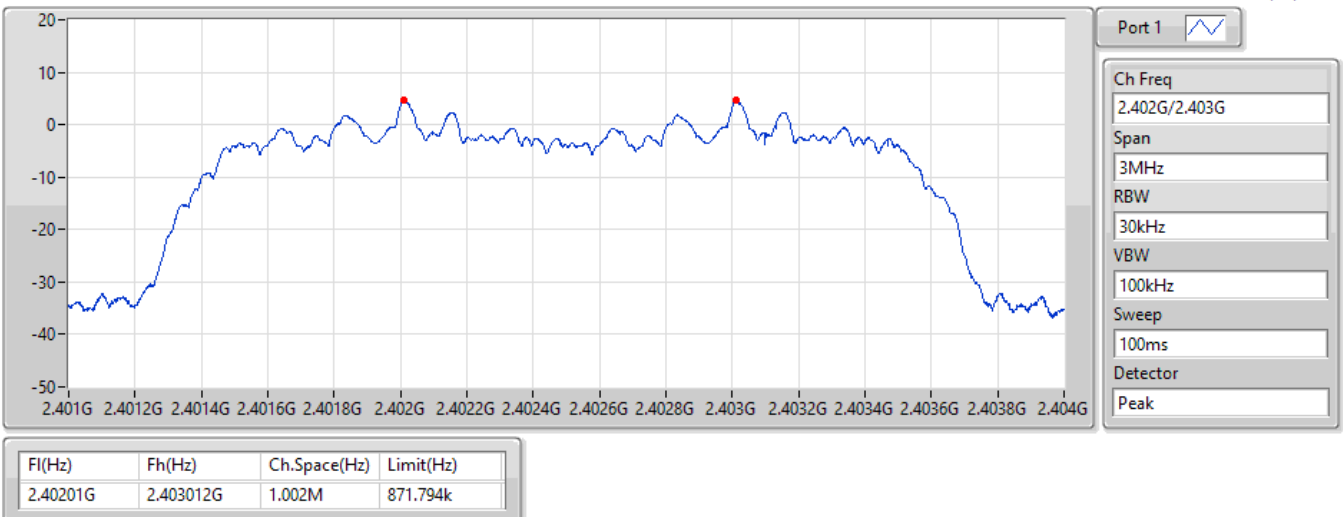


BT-EDR(2Mbps)

2.402G/2.403GHz

Channel Separation-FS

04/05/2022

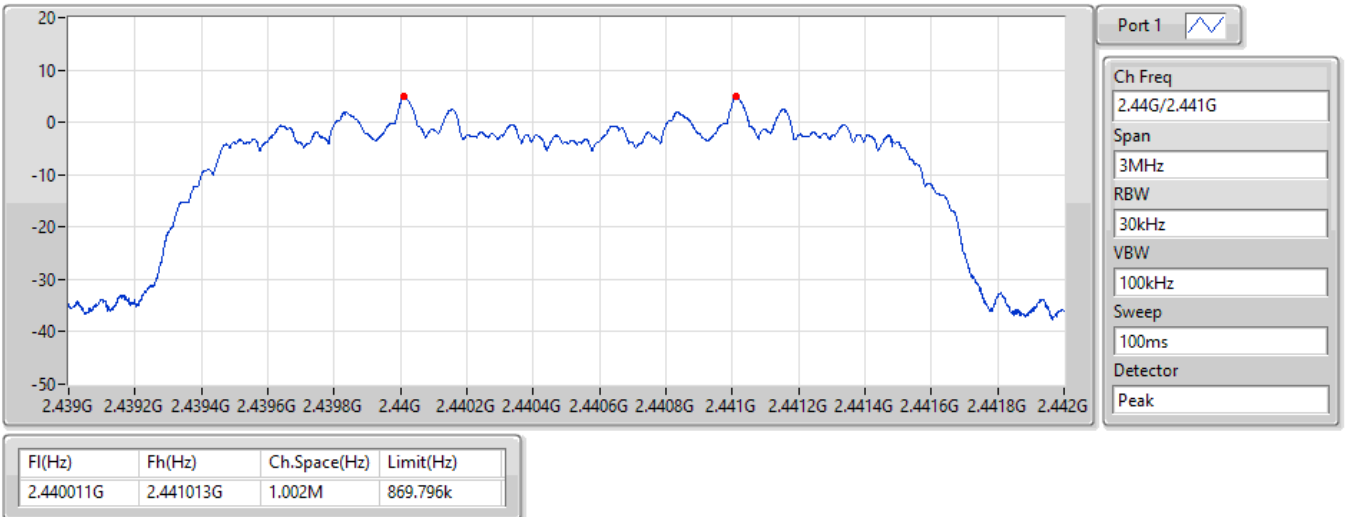


BT-EDR(2Mbps)

2.44G/2.441GHz

Channel Separation-FS

04/05/2022

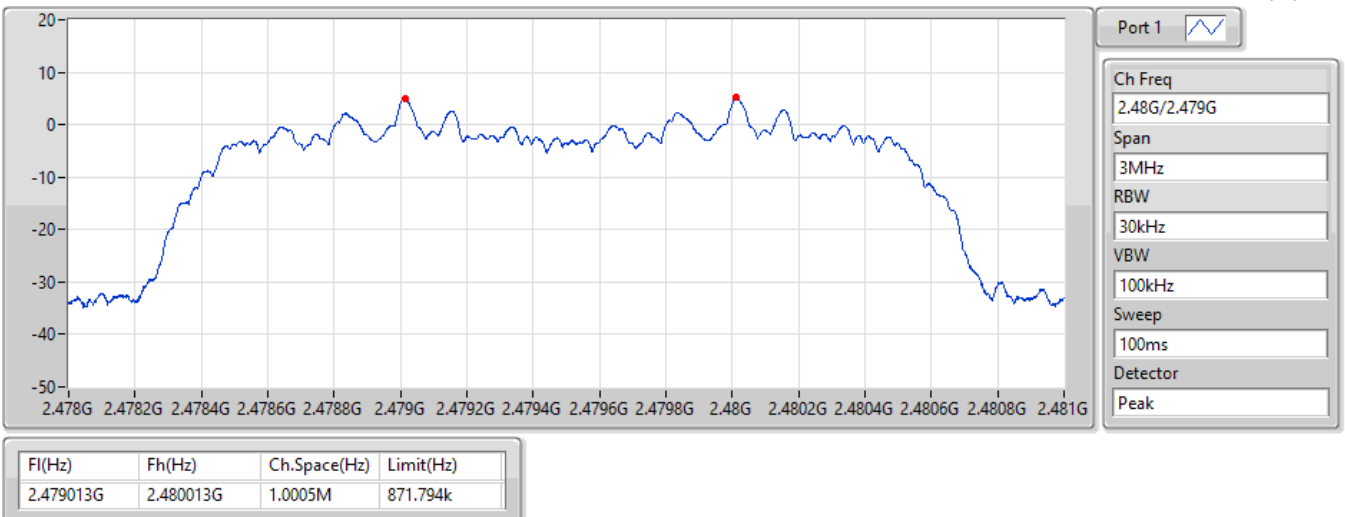


BT-EDR(2Mbps)

2.48G/2.479GHz

Channel Separation-FS

04/05/2022

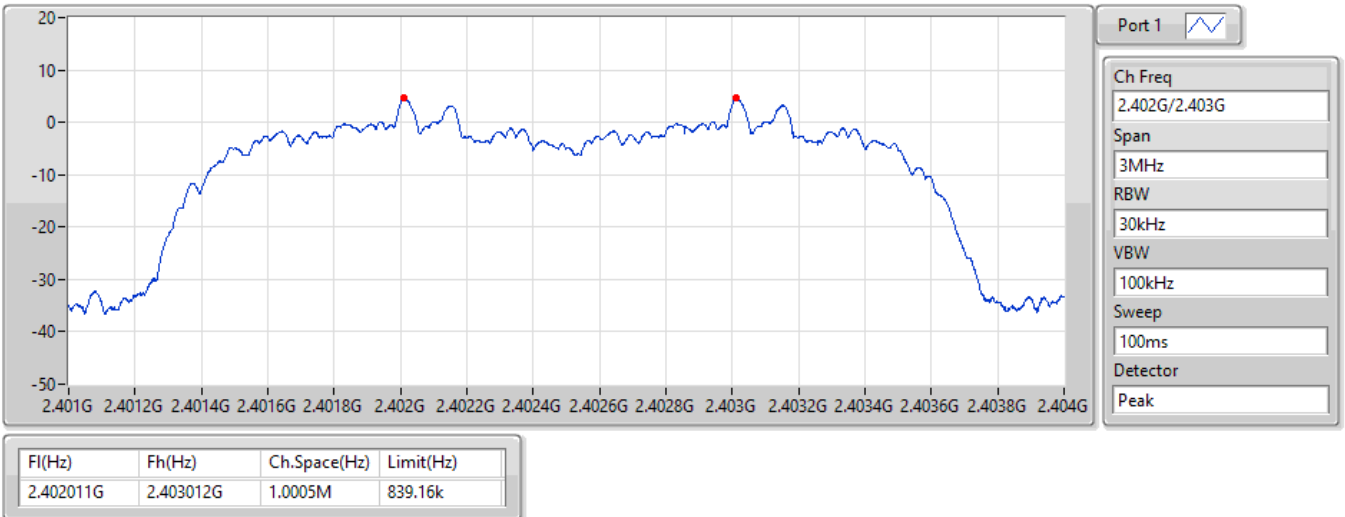


BT-EDR(3Mbps)

2.402G/2.403GHz

Channel Separation-FS

04/05/2022

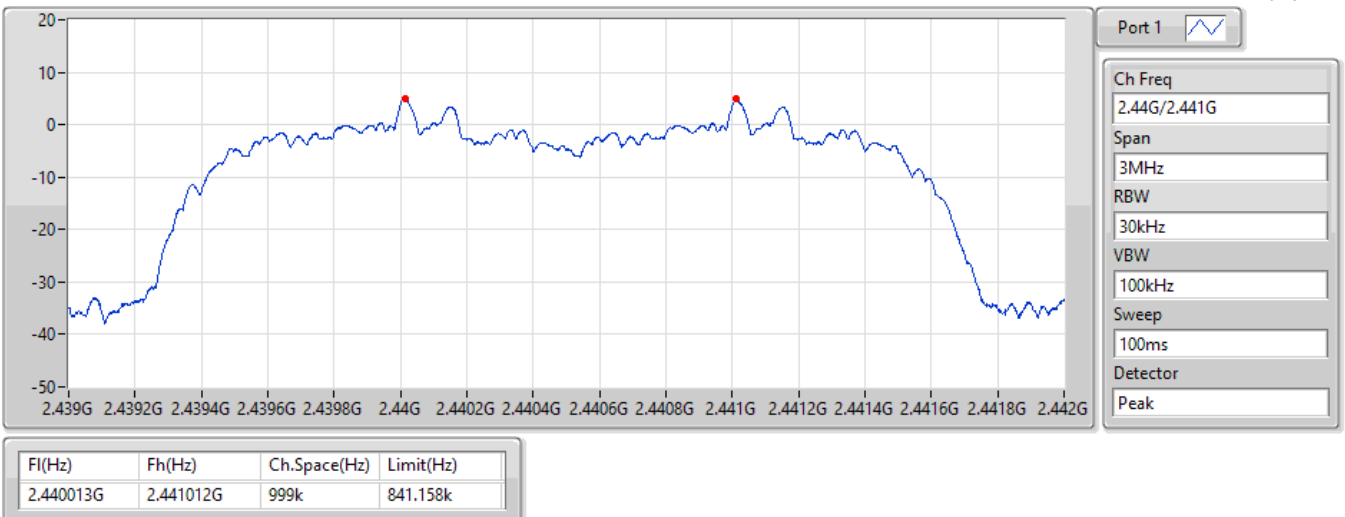


BT-EDR(3Mbps)

2.44G/2.441GHz

Channel Separation-FS

04/05/2022

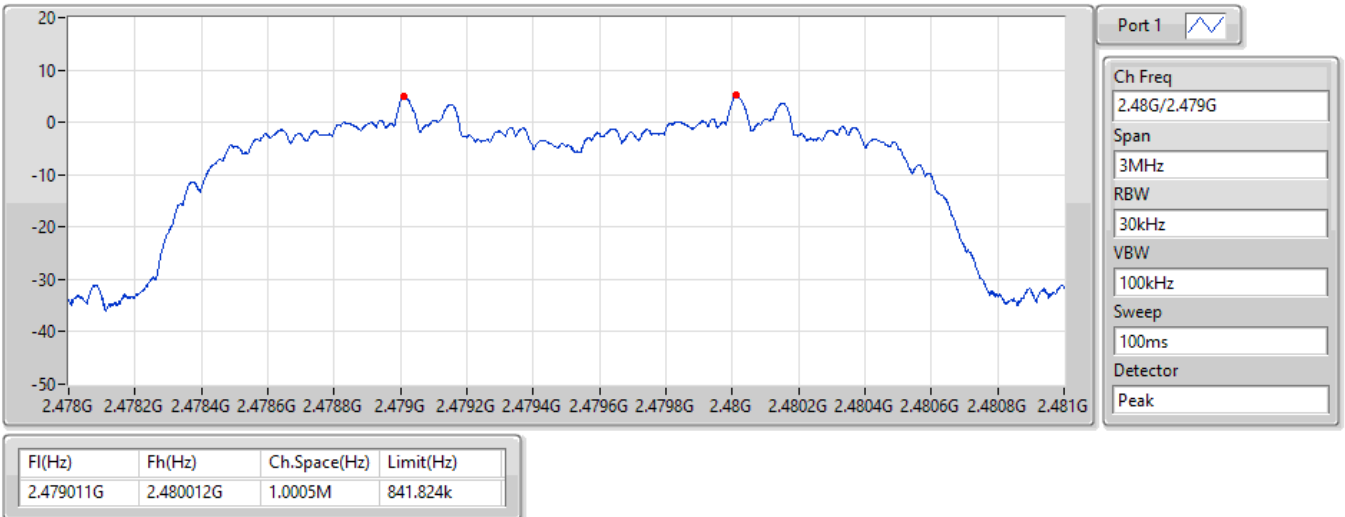


BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation-FS

04/05/2022





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.75	0.00944
BT-EDR(2Mbps)	9.35	0.00861
BT-EDR(3Mbps)	9.57	0.00906

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	1.64	9.47	21.00
2440MHz	Pass	1.64	9.64	21.00
2480MHz	Pass	1.64	9.75	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	1.64	9.01	21.00
2440MHz	Pass	1.64	9.12	21.00
2480MHz	Pass	1.64	9.35	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	1.64	9.27	21.00
2440MHz	Pass	1.64	9.38	21.00
2480MHz	Pass	1.64	9.57	21.00

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



Average Power-FHSS

Appendix C.2

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.44	0.00879
BT-EDR(2Mbps)	7.21	0.00526
BT-EDR(3Mbps)	7.20	0.00525



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	1.64	9.17	21.00
2440MHz	Pass	1.64	9.31	21.00
2480MHz	Pass	1.64	9.44	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	1.64	6.77	21.00
2440MHz	Pass	1.64	6.82	21.00
2480MHz	Pass	1.64	7.21	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	1.64	6.75	21.00
2440MHz	Pass	1.64	6.79	21.00
2480MHz	Pass	1.64	7.20	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

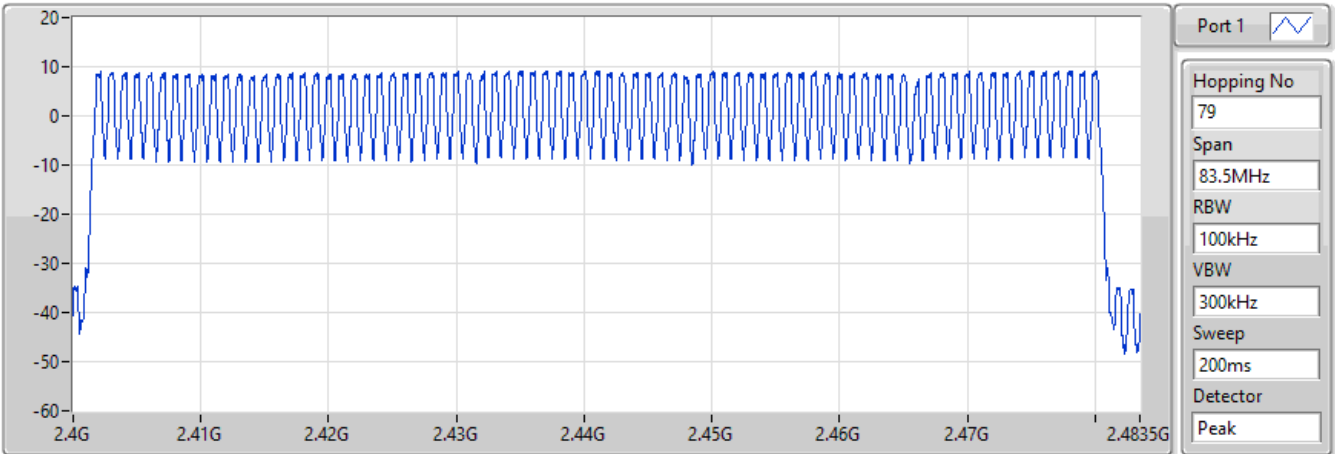
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

BT-BR(1Mbps)

2440MHz

Hopping-FS

04/05/2022



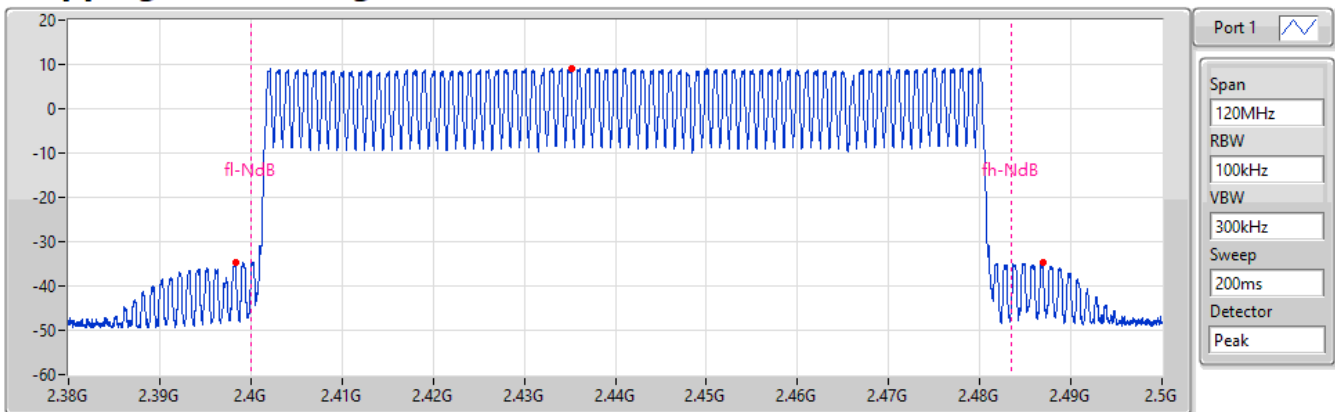
Hopping No	Limit
79	15

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

04/05/2022



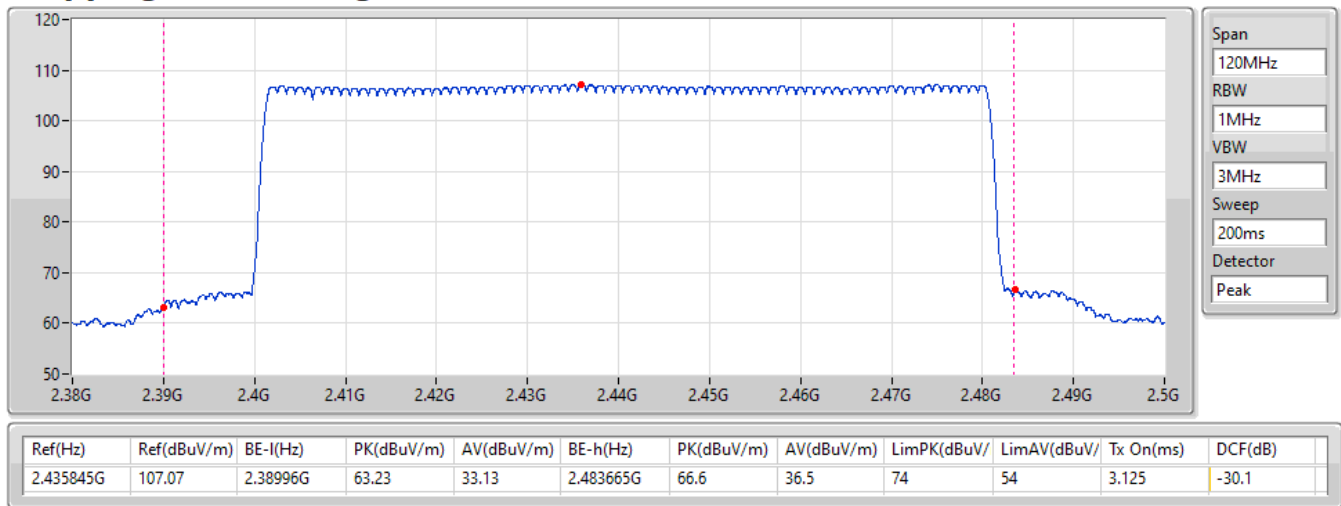
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-10.84	2.435155G	9.16	2.398345G	-34.79	2.48695G	-34.6

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

04/05/2022

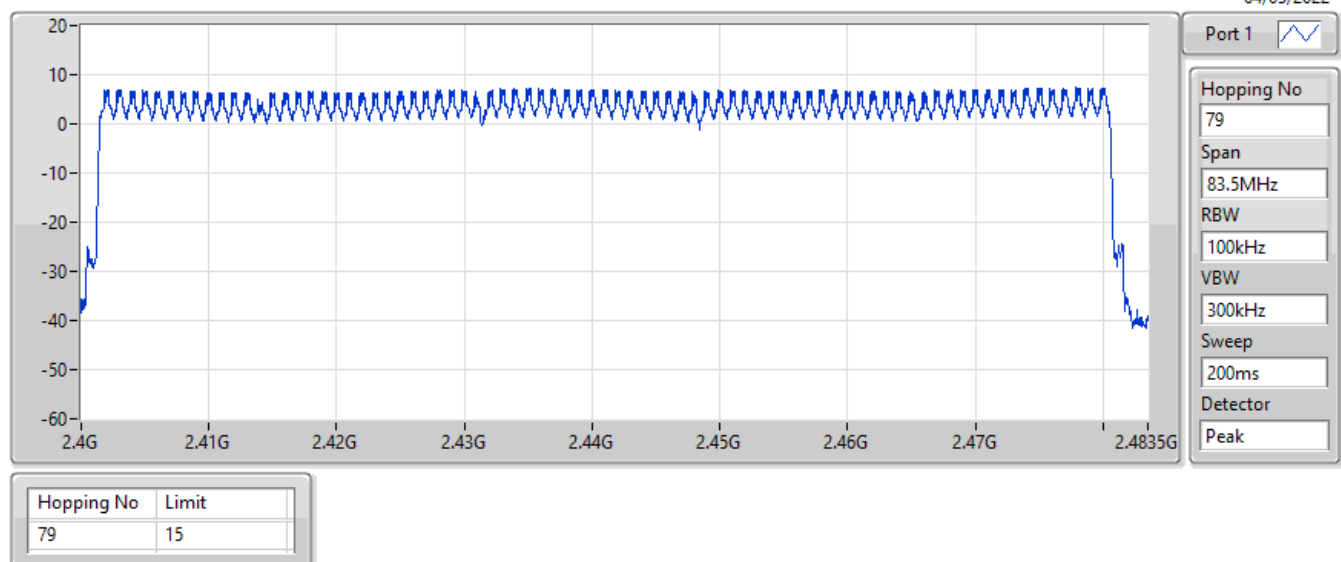


BT-EDR(2Mbps)

2440MHz

Hopping-FS

04/05/2022

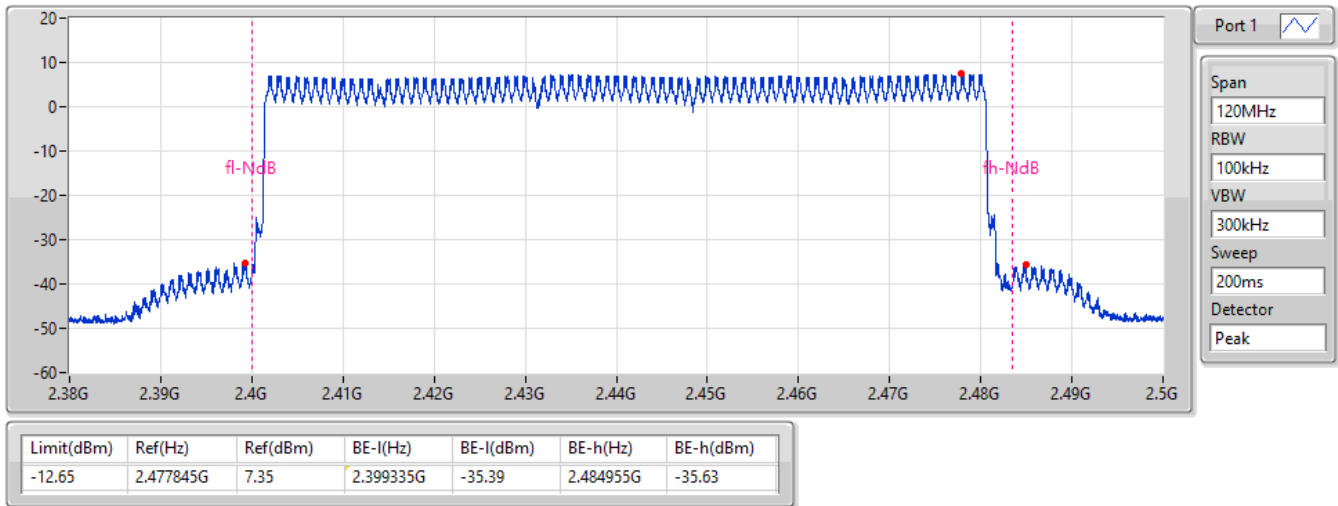


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

04/05/2022

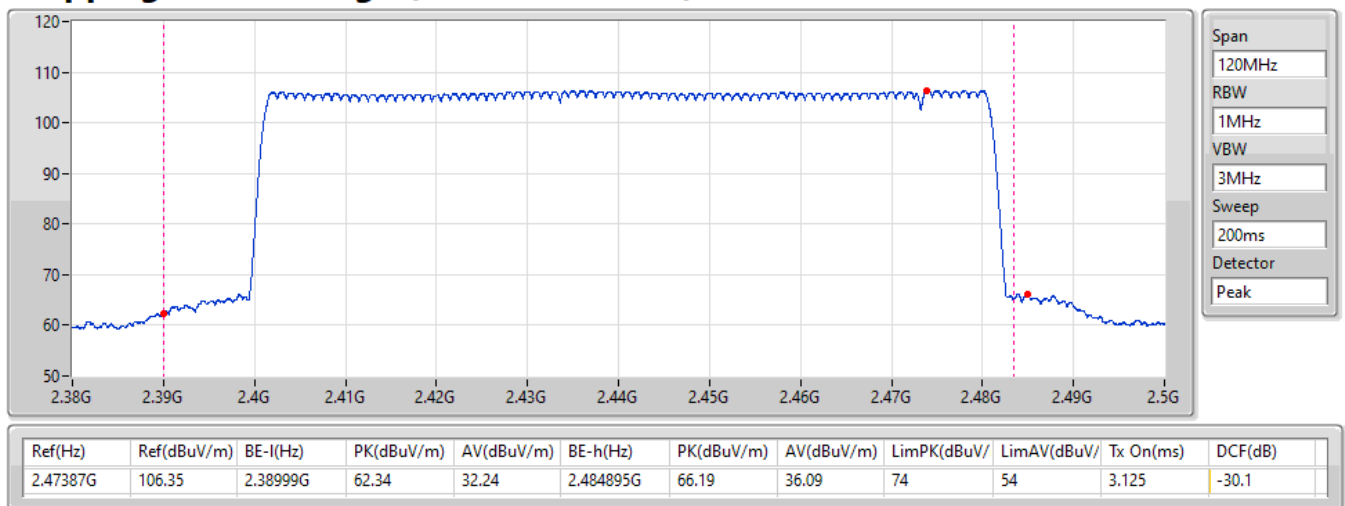


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

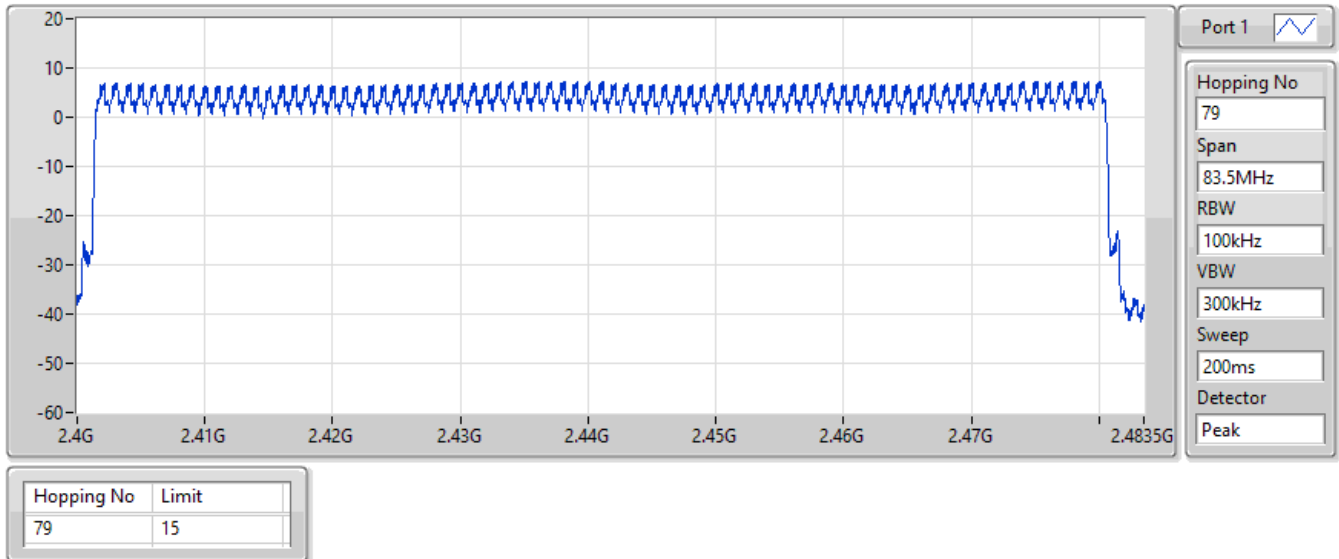
04/05/2022



BT-EDR(3Mbps) 2440MHz

Hopping-FS

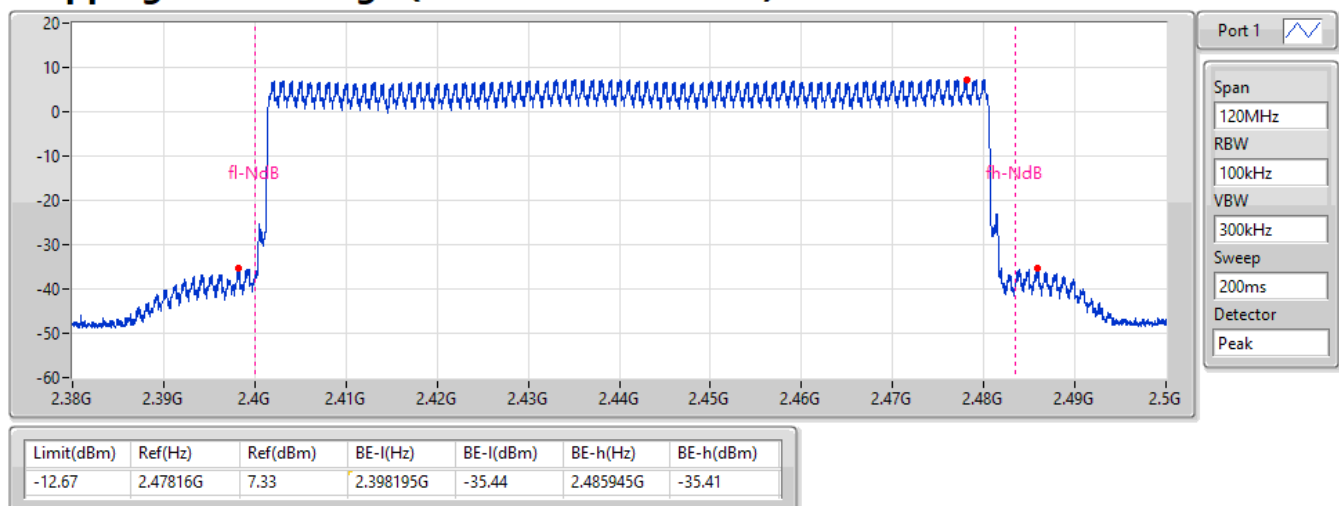
04/05/2022



BT-EDR(3Mbps) 2440MHz

Hopping Ch Bandedge (Non-restricted Band)

04/05/2022

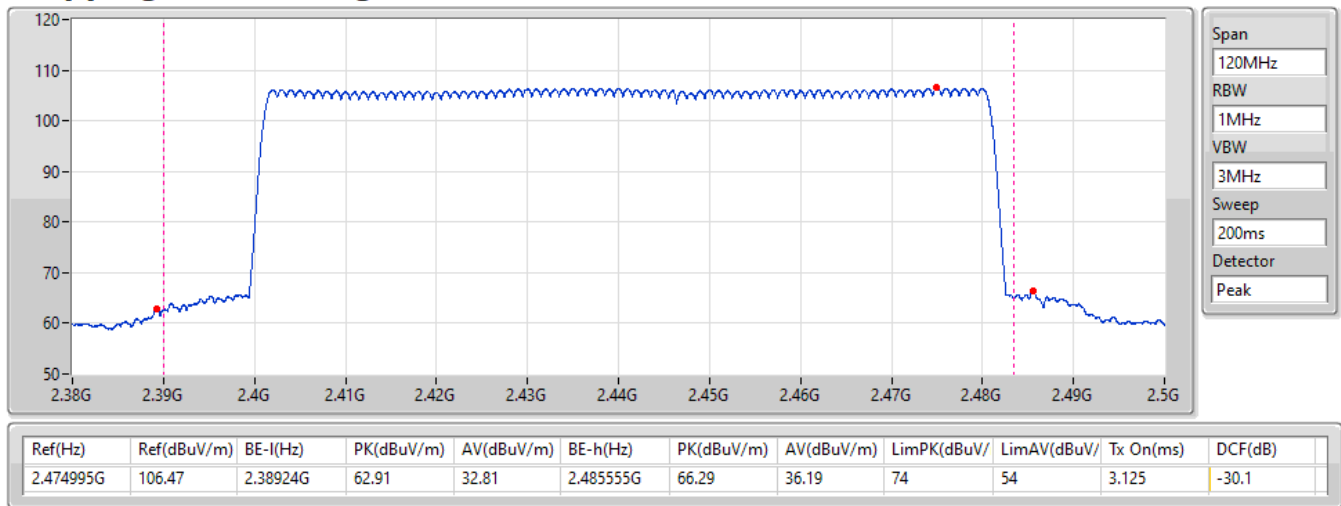


BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

04/05/2022





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	307.88745m_DH5
BT-EDR(2Mbps)	308.58035m_DH5
BT-EDR(3Mbps)	308.7136m_DH5

Result

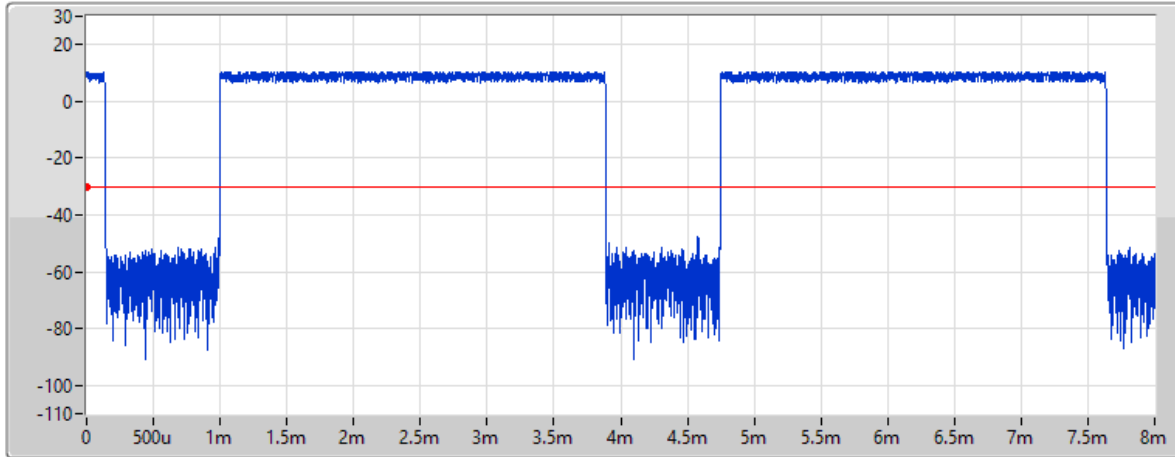
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.88745m_DH5	400m	2.88825m
2440MHz	Pass	8	153.95705m_DH5-AFH	400m	2.8885m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.58035m_DH5	400m	2.89475m
2440MHz	Pass	8	154.2502m_DH5-AFH	400m	2.894m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.7136m_DH5	400m	2.896m
2440MHz	Pass	8	154.3568m_DH5-AFH	400m	2.896m

BT-BR(1Mbps)

Dwell-FS

2440MHz

04/05/2022



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.88825ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.88745m_DH5	400m	2.88825m

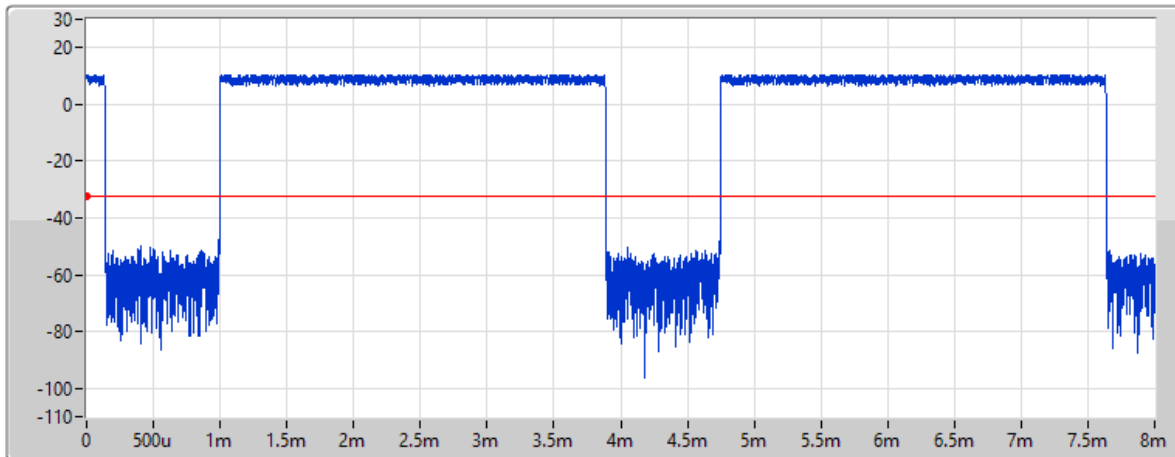
DH5

BT-BR(1Mbps)

Dwell-FS

2440MHz

04/05/2022



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.8885ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	153.95705m_DH5-AFH	400m	2.8885m

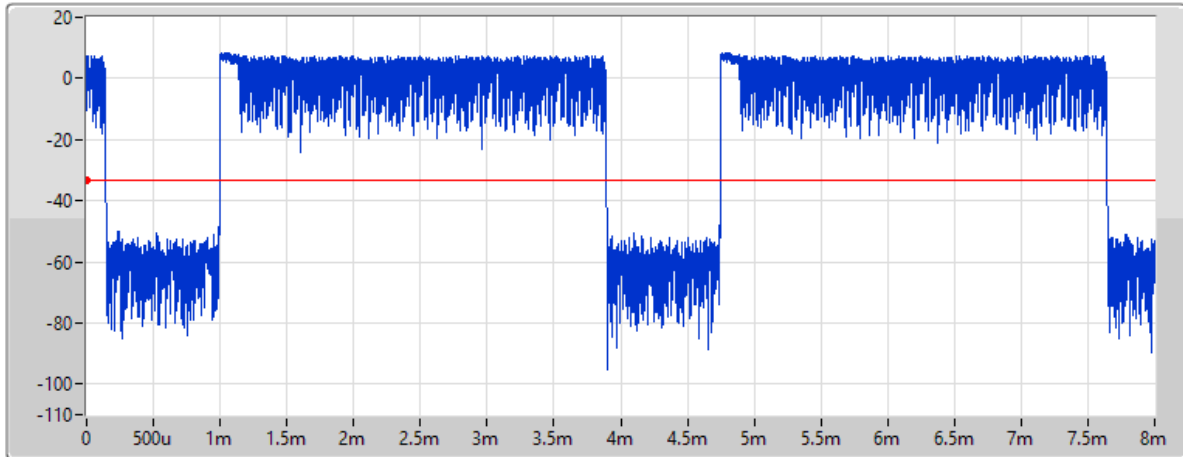
DH5-AFH

BT-EDR(2Mbps)

2440MHz

Dwell-FS

04/05/2022



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.89475ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.58035m_DH5	400m	2.89475m

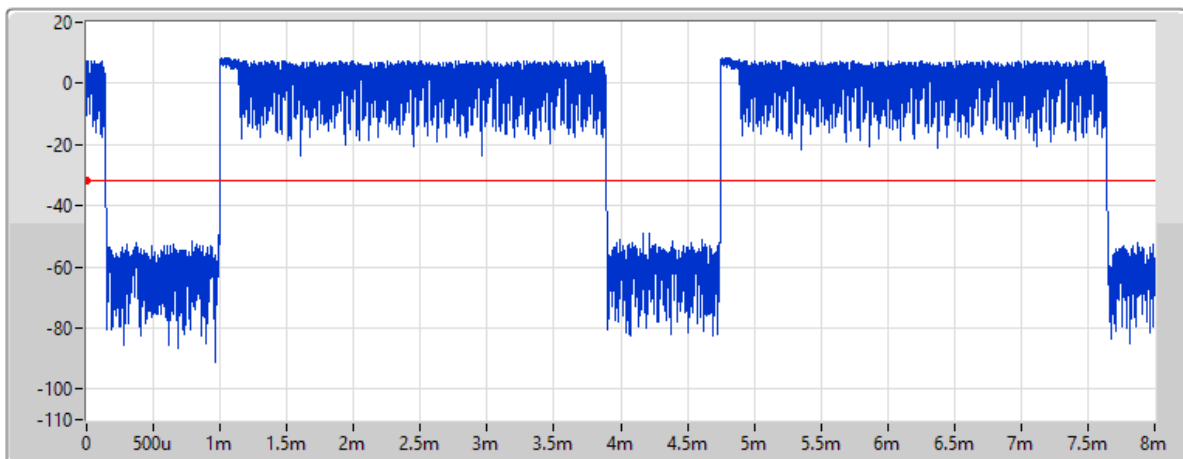
DH5

BT-EDR(2Mbps)

2440MHz

Dwell-FS

04/05/2022



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.894ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.2502m_DH5-AFH	400m	2.894m

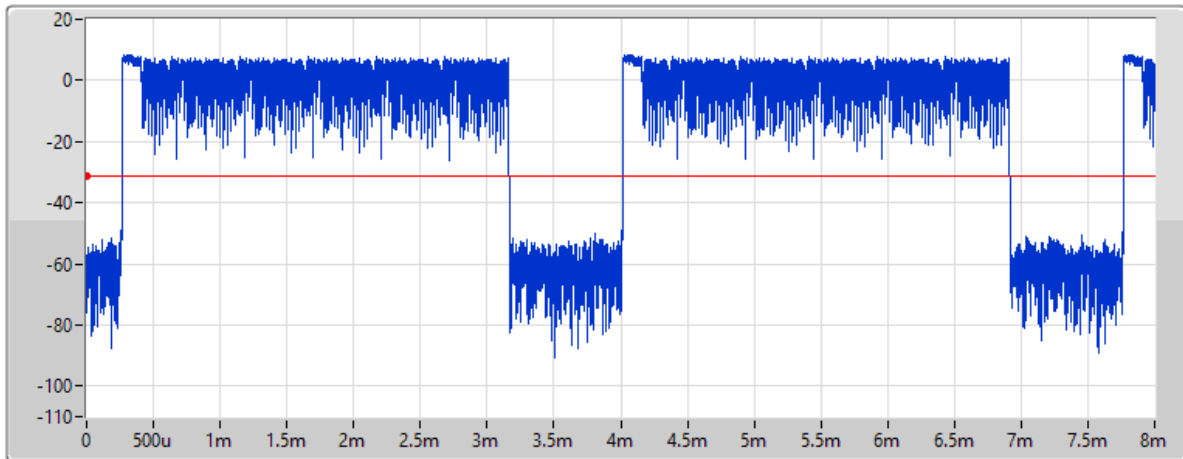
DH5-AFH

BT-EDR(3Mbps)

2440MHz

Dwell-FS

04/05/2022



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.896ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.7136m_DH5	400m	2.896m

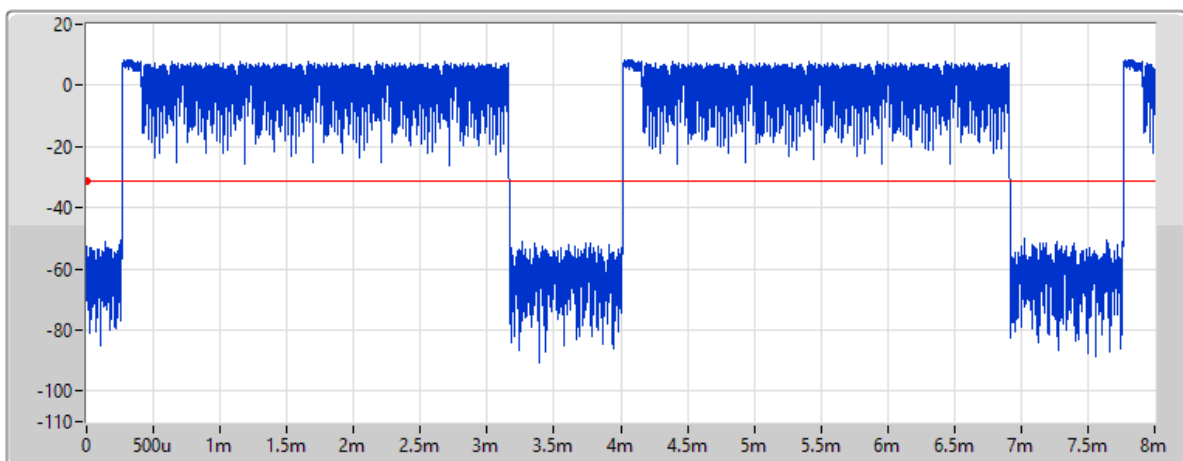
DH5

BT-EDR(3Mbps)

2440MHz

Dwell-FS

04/05/2022



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.896ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.3568m_DH5-AFH	400m	2.896m

DH5-AFH



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	2.40205G	8.27	-11.73	2.13384G	-56.20	2.39995G	-53.58	2.4G	-54.60	2.50335G	-54.65	21.82799G	-42.03	1
BT-EDR(2Mbps)	Pass	2.40213G	6.42	-13.58	2.11974G	-55.72	2.3996G	-49.64	2.4G	-54.02	2.50206G	-54.35	24.51914G	-42.32	1
BT-EDR(3Mbps)	Pass	2.40205G	5.69	-14.31	1.64328G	-55.66	2.39958G	-51.06	2.4G	-52.31	2.50241G	-54.76	24.60912G	-42.48	1

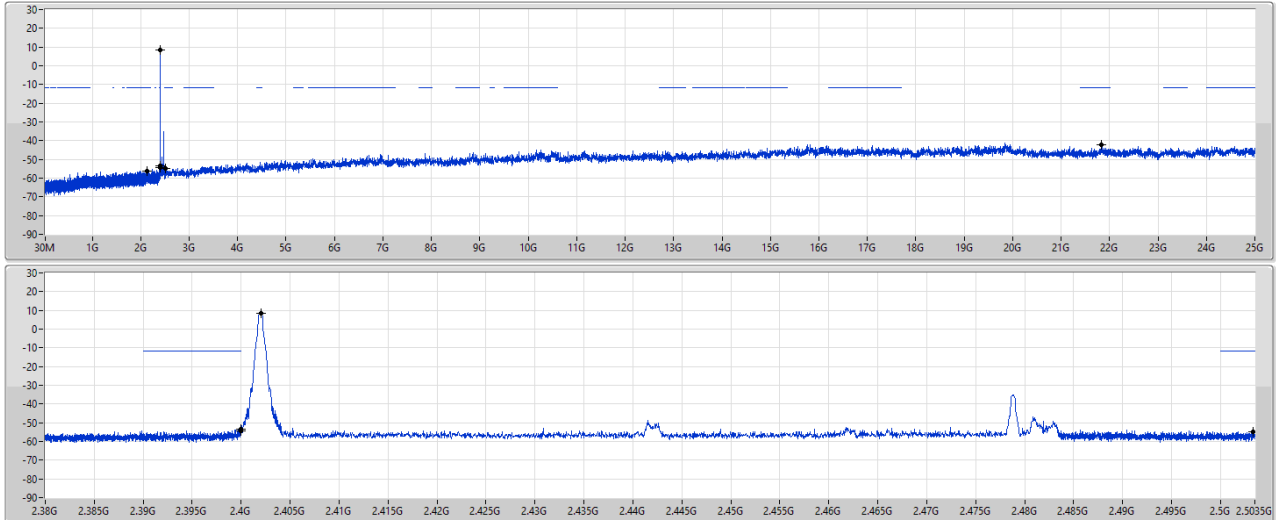
Result

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	2.40205G	8.27	-11.73	2.13384G	-56.20	2.39995G	-53.58	2.4G	-54.60	2.50335G	-54.65	21.82799G	-42.03	1
2440MHz	Pass	2.43983G	8.45	-11.55	2.30862G	-55.84	2.39666G	-54.29	2.4G	-56.31	2.50294G	-54.46	24.53039G	-42.81	1
2480MHz	Pass	2.48003G	8.63	-11.37	2.12738G	-56.19	2.39125G	-54.47	2.4G	-56.23	2.50211G	-54.66	24.13107G	-41.69	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40213G	6.42	-13.58	2.11974G	-55.72	2.3996G	-49.64	2.4G	-54.02	2.50206G	-54.35	24.51914G	-42.32	1
2440MHz	Pass	2.44016G	6.79	-13.21	2.18084G	-54.98	2.39818G	-54.61	2.4G	-57.58	2.50328G	-54.45	24.88752G	-41.62	1
2480MHz	Pass	2.48003G	7.19	-12.81	2.15616G	-55.03	2.39814G	-54.67	2.4G	-58.92	2.50135G	-53.89	16.55538G	-42.22	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40205G	5.69	-14.31	1.64328G	-55.66	2.39958G	-51.06	2.4G	-52.31	2.50241G	-54.76	24.60912G	-42.48	1
2440MHz	Pass	2.43983G	6.41	-13.59	2.12356G	-55.18	2.39855G	-54.46	2.4G	-57.02	2.50054G	-54.25	17.08967G	-42.37	1
2480MHz	Pass	2.47987G	6.87	-13.13	1.97991G	-55.93	2.39784G	-54.26	2.4G	-57.54	2.50035G	-54.33	17.64646G	-42.42	1

BT-BR(1Mbps)

CSENdB-FS

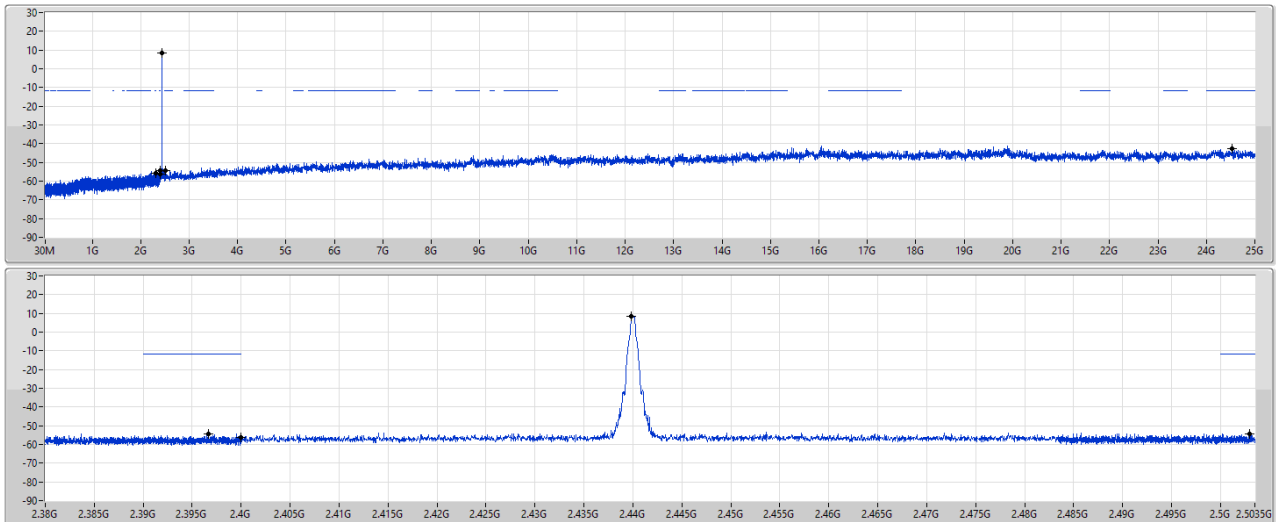
2402MHz



BT-BR(1Mbps)

CSENdB-FS

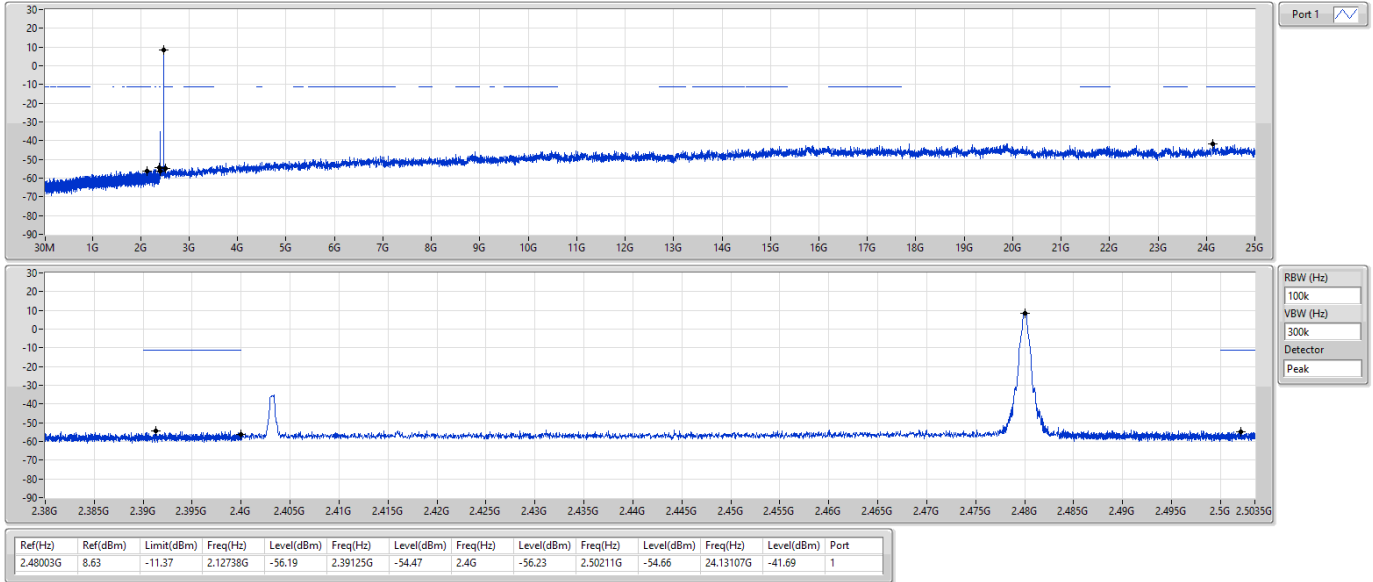
2440MHz



BT-BR(1Mbps)

CSEndB-FS

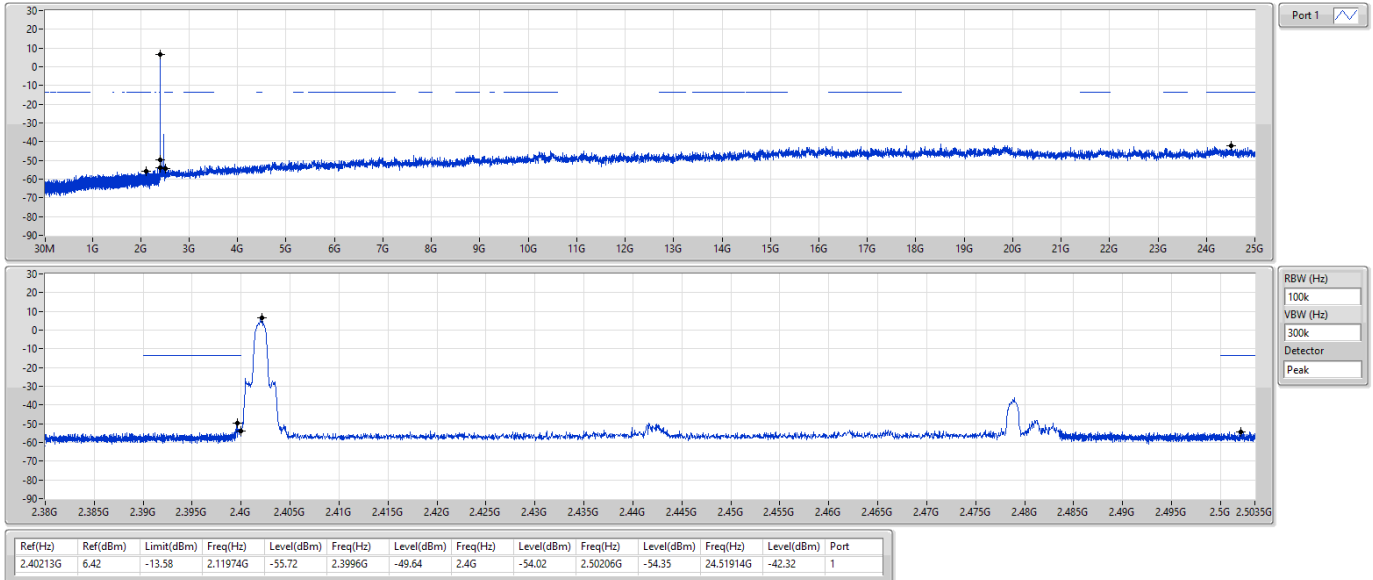
2480MHz



BT-EDR(2Mbps)

CSEndB-FS

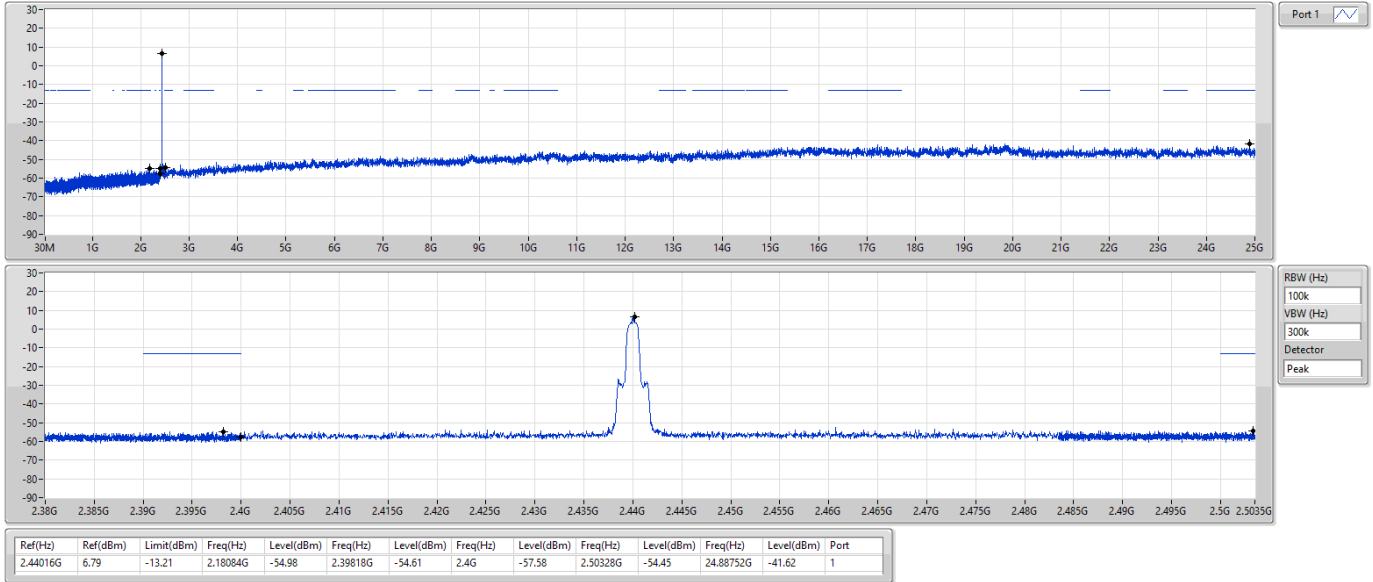
2402MHz



BT-EDR(2Mbps)

CSEndB-FS

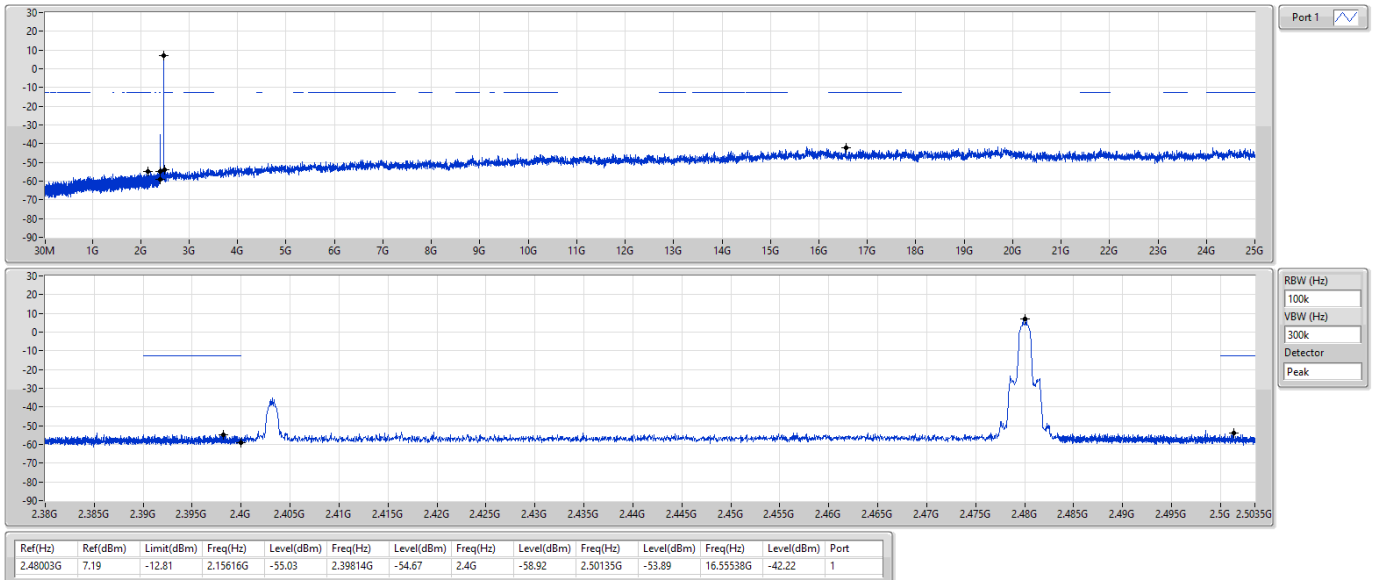
2440MHz



BT-EDR(2Mbps)

CSEndB-FS

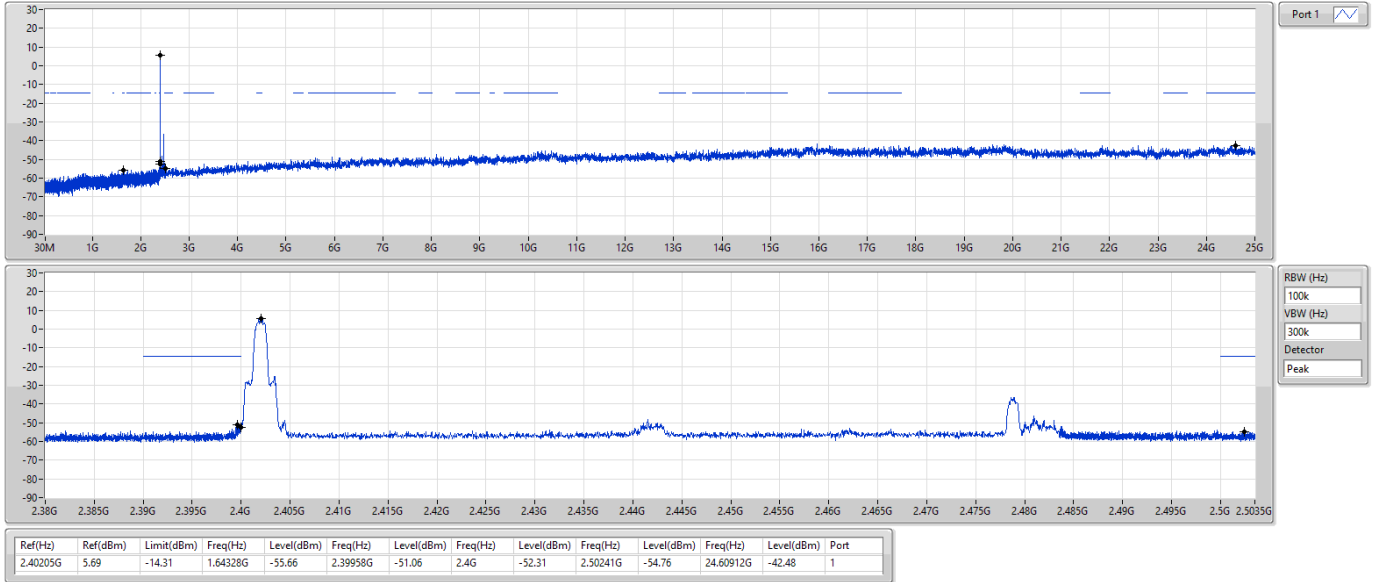
2480MHz



BT-EDR(3Mbps)

CSEndB-FS

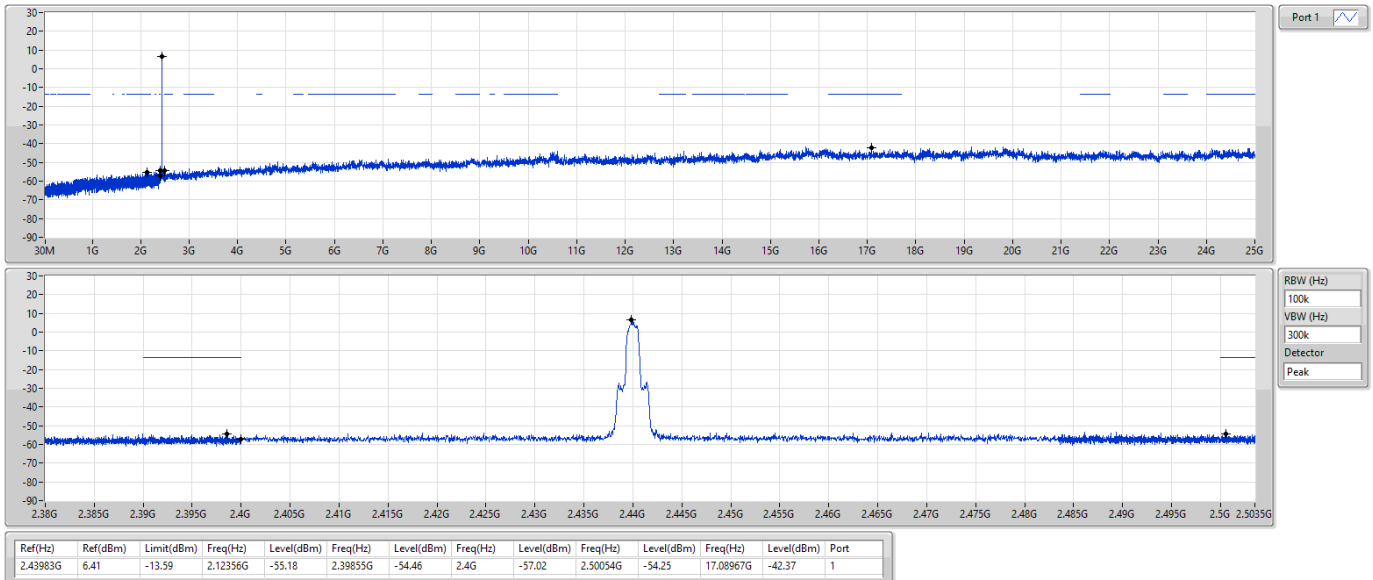
2402MHz



BT-EDR(3Mbps)

CSEndB-FS

2440MHz

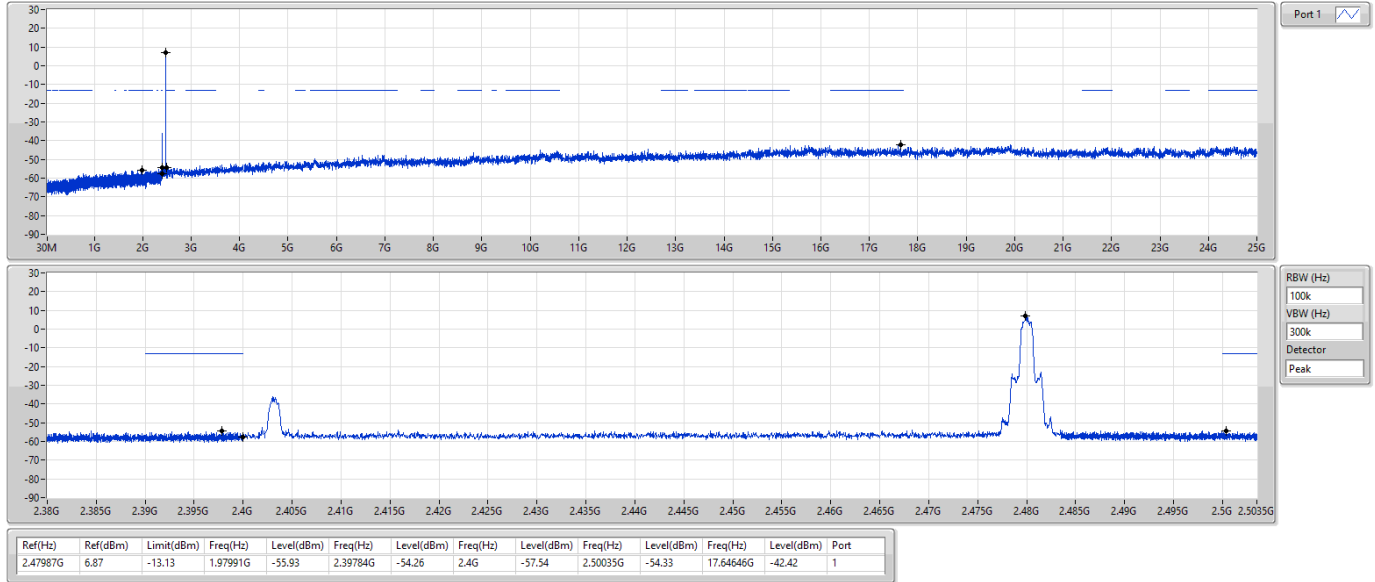


BT-EDR(3Mbps)

CSEndB-FS

2480MHz

04/05/2022





Summary

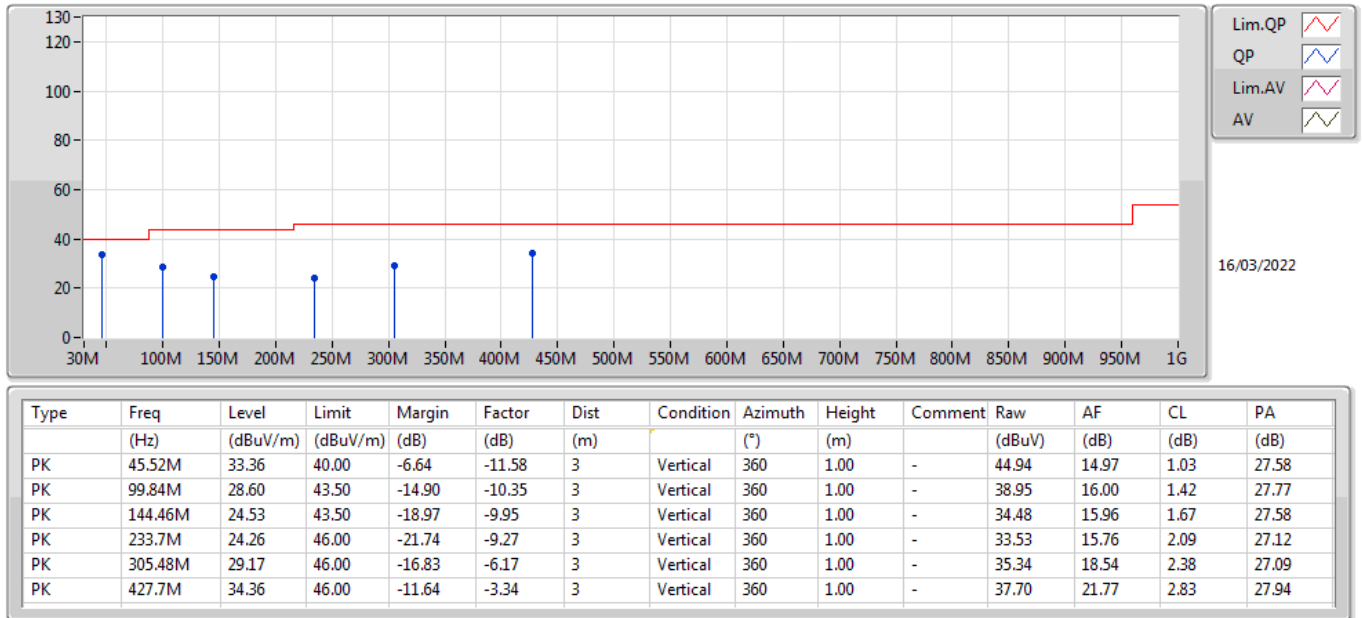
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	45.52M	33.36	40.00	-6.64	3	Vertical	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	45.52M	33.36	40.00	-6.64	3	Vertical	360	1.00	-
2440MHz	Pass	PK	99.84M	28.60	43.50	-14.90	3	Vertical	360	1.00	-
2440MHz	Pass	PK	144.46M	24.53	43.50	-18.97	3	Vertical	360	1.00	-
2440MHz	Pass	PK	233.7M	24.26	46.00	-21.74	3	Vertical	360	1.00	-
2440MHz	Pass	PK	305.48M	29.17	46.00	-16.83	3	Vertical	360	1.00	-
2440MHz	Pass	PK	427.7M	34.36	46.00	-11.64	3	Vertical	360	1.00	-
2440MHz	Pass	PK	47.46M	32.85	40.00	-7.15	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	144.46M	29.77	43.50	-13.73	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	282.2M	33.82	46.00	-12.18	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	328.76M	35.23	46.00	-10.77	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	408.3M	38.77	46.00	-7.23	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	631.4M	33.63	46.00	-12.37	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	9.846k	61.39	127.72	-66.33	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	33.534k	57.44	117.09	-59.65	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	73.86k	51.88	110.23	-58.35	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	388.8k	47.36	95.80	-48.44	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	1.702M	47.49	63.02	-15.53	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	5.344M	39.57	69.50	-29.93	3	Horizontal	0	1.00	-

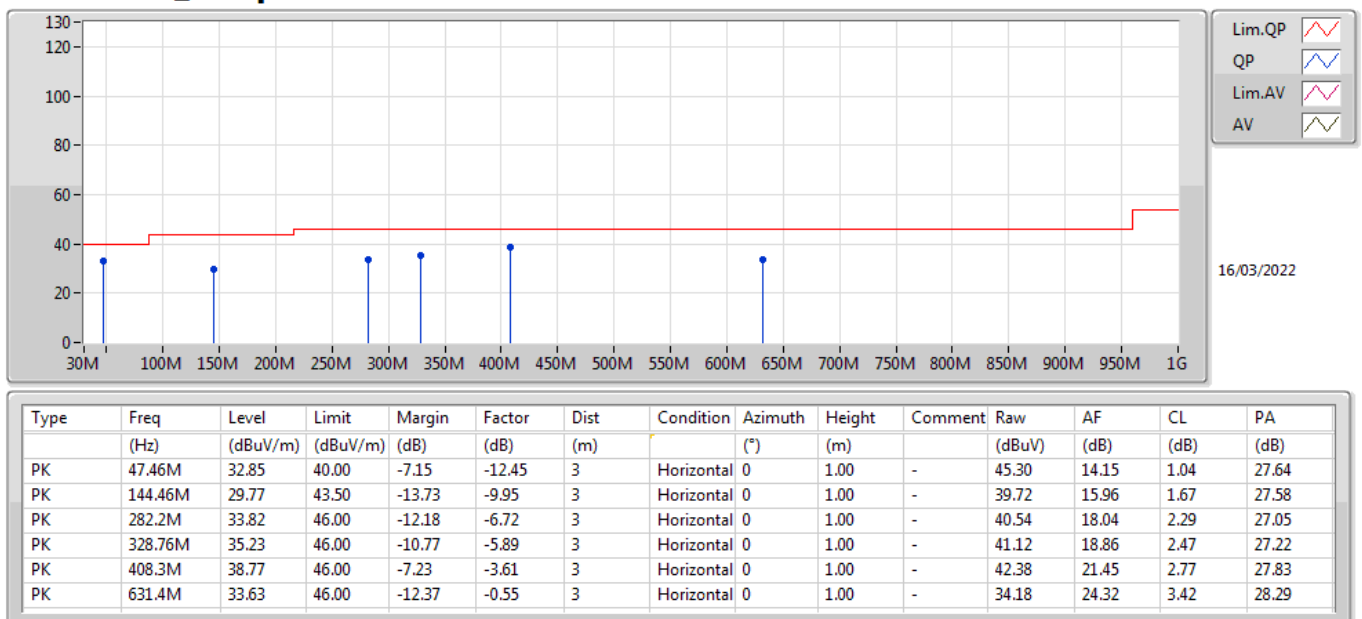
BT-BR(1Mbps)

2440MHz_Adapter



BT-BR(1Mbps)

2440MHz_Adapter



BT-BR(1Mbps)

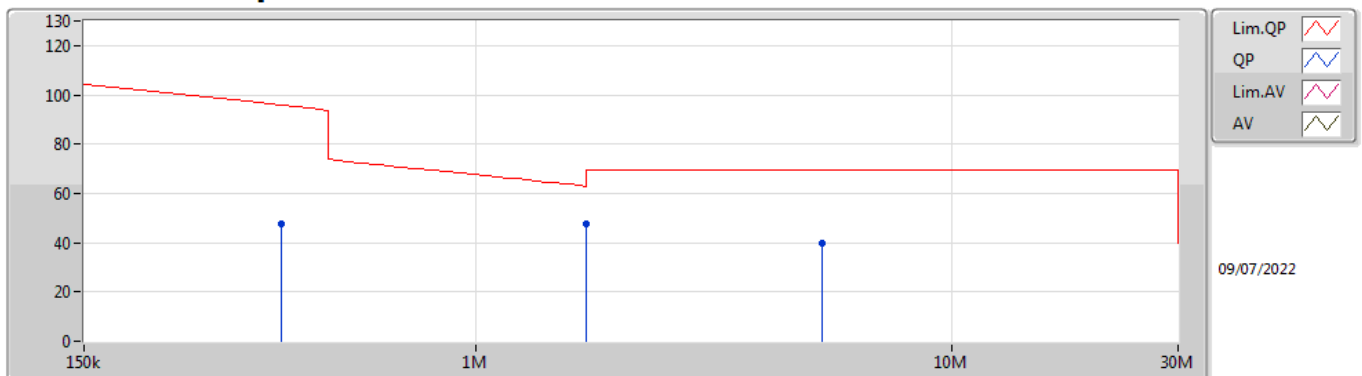
2440MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	9.846k	61.39	127.72	-66.33	19.14	3	Horizontal	360	1.00	-	42.25	18.96	0.18	-
PK	33.534k	57.44	117.09	-59.65	21.67	3	Horizontal	360	1.00	-	35.77	21.43	0.24	-
PK	73.86k	51.88	110.23	-58.35	20.46	3	Horizontal	360	1.00	-	31.42	20.18	0.28	-

BT-BR(1Mbps)

2440MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	388.8k	47.36	95.80	-48.44	20.50	3	Horizontal	0	1.00	-	26.86	20.20	0.30	-
PK	1.702M	47.49	63.02	-15.53	20.39	3	Horizontal	0	1.00	-	27.10	19.96	0.43	-
PK	5.344M	39.57	69.50	-29.93	21.08	3	Horizontal	0	1.00	-	18.49	20.47	0.61	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	2.3472G	61.85	74.00	-12.15	3	Horizontal	53	1.06	-
BT-EDR(3Mbps)	Pass	PK	2.3776G	61.39	74.00	-12.61	3	Vertical	220	2.74	-

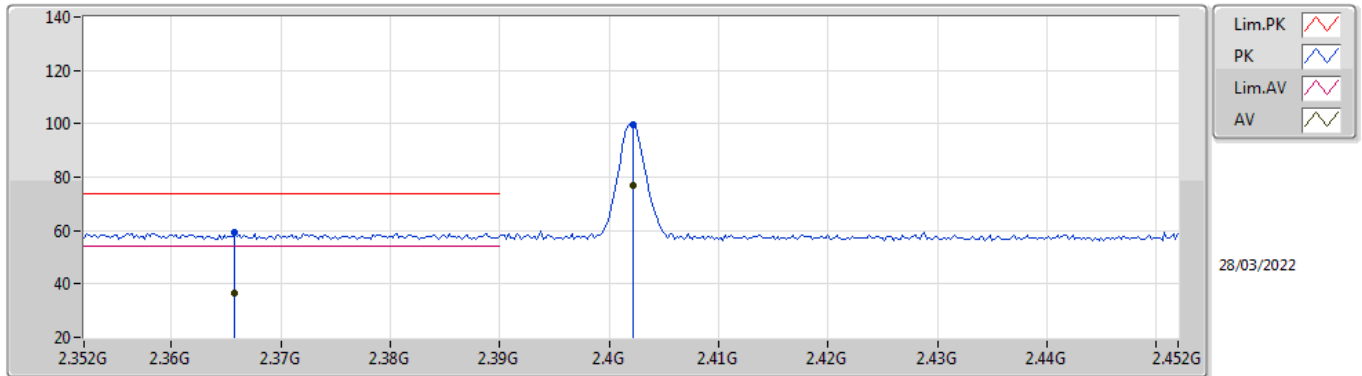
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3658G	36.72	54.00	-17.28	3	Vertical	169	2.50	-
2402MHz	Pass	AV	2.4022G	77.07	Inf	-Inf	3	Vertical	169	2.50	-
2402MHz	Pass	PK	2.3658G	59.22	74.00	-14.78	3	Vertical	169	2.50	-
2402MHz	Pass	PK	2.4022G	99.57	Inf	-Inf	3	Vertical	169	2.50	-
2402MHz	Pass	AV	2.3666G	37.77	54.00	-16.23	3	Horizontal	69	1.48	-
2402MHz	Pass	AV	2.4022G	81.92	Inf	-Inf	3	Horizontal	69	1.48	-
2402MHz	Pass	PK	2.3666G	60.27	74.00	-13.73	3	Horizontal	69	1.48	-
2402MHz	Pass	PK	2.4022G	104.42	Inf	-Inf	3	Horizontal	69	1.48	-
2402MHz	Pass	AV	4.7929G	21.46	54.00	-32.54	3	Vertical	263	1.50	-
2402MHz	Pass	PK	4.7929G	43.96	74.00	-30.04	3	Vertical	263	1.50	-
2402MHz	Pass	AV	4.79878G	21.36	54.00	-32.64	3	Horizontal	22	1.50	-
2402MHz	Pass	PK	4.79878G	43.86	74.00	-30.14	3	Horizontal	22	1.50	-
2440MHz	Pass	AV	2.3604G	37.76	54.00	-16.24	3	Vertical	220	2.74	-
2440MHz	Pass	AV	2.44G	80.75	Inf	-Inf	3	Vertical	220	2.74	-
2440MHz	Pass	AV	2.4884G	37.91	54.00	-16.09	3	Vertical	220	2.74	-
2440MHz	Pass	PK	2.3604G	60.25	74.00	-13.75	3	Vertical	220	2.74	-
2440MHz	Pass	PK	2.44G	103.25	Inf	-Inf	3	Vertical	220	2.74	-
2440MHz	Pass	PK	2.4884G	60.41	74.00	-13.59	3	Vertical	220	2.74	-
2440MHz	Pass	AV	2.3472G	39.35	54.00	-14.65	3	Horizontal	53	1.06	-
2440MHz	Pass	AV	2.44G	80.20	Inf	-Inf	3	Horizontal	53	1.06	-
2440MHz	Pass	AV	2.4868G	37.33	54.00	-16.67	3	Horizontal	53	1.06	-
2440MHz	Pass	PK	2.3472G	61.85	74.00	-12.15	3	Horizontal	53	1.06	-
2440MHz	Pass	PK	2.44G	102.70	Inf	-Inf	3	Horizontal	53	1.06	-
2440MHz	Pass	PK	2.4868G	59.83	74.00	-14.17	3	Horizontal	53	1.06	-
2440MHz	Pass	AV	4.87562G	21.44	54.00	-32.56	3	Vertical	205	1.33	-
2440MHz	Pass	AV	7.31922G	27.59	54.00	-26.41	3	Vertical	148	2.24	-
2440MHz	Pass	PK	4.87562G	43.94	74.00	-30.06	3	Vertical	205	1.33	-
2440MHz	Pass	PK	7.31922G	50.09	74.00	-23.91	3	Vertical	148	2.24	-
2440MHz	Pass	AV	4.88096G	21.03	54.00	-32.97	3	Horizontal	31	1.81	-
2440MHz	Pass	AV	7.3217G	28.36	54.00	-25.64	3	Horizontal	197	2.19	-
2440MHz	Pass	PK	4.88096G	43.53	74.00	-30.47	3	Horizontal	31	1.81	-
2440MHz	Pass	PK	7.3217G	50.86	74.00	-23.14	3	Horizontal	197	2.19	-
2480MHz	Pass	AV	2.4798G	75.72	Inf	-Inf	3	Vertical	69	2.53	-
2480MHz	Pass	AV	2.4846G	36.32	54.00	-17.68	3	Vertical	69	2.53	-
2480MHz	Pass	PK	2.4798G	98.22	Inf	-Inf	3	Vertical	69	2.53	-
2480MHz	Pass	PK	2.4846G	58.82	74.00	-15.18	3	Vertical	69	2.53	-
2480MHz	Pass	AV	2.4798G	83.48	Inf	-Inf	3	Horizontal	46	1.49	-
2480MHz	Pass	AV	2.4835G	36.95	54.00	-17.05	3	Horizontal	46	1.49	-
2480MHz	Pass	PK	2.4798G	105.98	Inf	-Inf	3	Horizontal	46	1.49	-
2480MHz	Pass	PK	2.4835G	59.45	74.00	-14.55	3	Horizontal	46	1.49	-
2480MHz	Pass	AV	4.9507G	22.17	54.00	-31.83	3	Vertical	156	1.09	-
2480MHz	Pass	AV	7.43472G	28.89	54.00	-25.11	3	Vertical	55	1.50	-
2480MHz	Pass	PK	4.9507G	44.67	74.00	-29.33	3	Vertical	156	1.09	-
2480MHz	Pass	PK	7.43472G	51.39	74.00	-22.61	3	Vertical	55	1.50	-
2480MHz	Pass	AV	4.97398G	21.95	54.00	-32.05	3	Horizontal	323	1.50	-
2480MHz	Pass	AV	7.42986G	27.86	54.00	-26.14	3	Horizontal	239	1.83	-
2480MHz	Pass	PK	4.97398G	44.45	74.00	-29.55	3	Horizontal	323	1.50	-
2480MHz	Pass	PK	7.42986G	50.36	74.00	-23.64	3	Horizontal	239	1.83	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.361G	37.42	54.00	-16.58	3	Vertical	169	2.50	-
2402MHz	Pass	AV	2.402G	75.61	Inf	-Inf	3	Vertical	169	2.50	-
2402MHz	Pass	PK	2.361G	59.92	74.00	-14.08	3	Vertical	169	2.50	-
2402MHz	Pass	PK	2.402G	98.11	Inf	-Inf	3	Vertical	169	2.50	-
2402MHz	Pass	AV	2.36G	37.86	54.00	-16.14	3	Horizontal	66	1.07	-
2402MHz	Pass	AV	2.402G	81.48	Inf	-Inf	3	Horizontal	66	1.07	-
2402MHz	Pass	PK	2.36G	60.36	74.00	-13.64	3	Horizontal	66	1.07	-
2402MHz	Pass	PK	2.402G	103.98	Inf	-Inf	3	Horizontal	66	1.07	-
2402MHz	Pass	AV	4.78918G	21.94	54.00	-32.06	3	Vertical	53	1.50	-
2402MHz	Pass	PK	4.78918G	44.44	74.00	-29.56	3	Vertical	53	1.50	-
2402MHz	Pass	AV	4.7926G	21.22	54.00	-32.78	3	Horizontal	263	1.21	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2402MHz	Pass	PK	4.7926G	43.69	74.00	-30.31	3	Horizontal	263	1.21	-
2440MHz	Pass	AV	2.3776G	38.89	54.00	-15.11	3	Vertical	220	2.74	-
2440MHz	Pass	AV	2.44G	79.41	Inf	-Inf	3	Vertical	220	2.74	-
2440MHz	Pass	AV	2.496G	36.77	54.00	-17.23	3	Vertical	220	2.74	-
2440MHz	Pass	PK	2.3776G	61.39	74.00	-12.61	3	Vertical	220	2.74	-
2440MHz	Pass	PK	2.44G	101.91	Inf	-Inf	3	Vertical	220	2.74	-
2440MHz	Pass	PK	2.496G	59.27	74.00	-14.73	3	Vertical	220	2.74	-
2440MHz	Pass	AV	2.3676G	38.19	54.00	-15.81	3	Horizontal	50	1.04	-
2440MHz	Pass	AV	2.44G	81.40	Inf	-Inf	3	Horizontal	50	1.04	-
2440MHz	Pass	AV	2.486G	36.72	54.00	-17.28	3	Horizontal	50	1.04	-
2440MHz	Pass	PK	2.3676G	60.69	74.00	-13.31	3	Horizontal	50	1.04	-
2440MHz	Pass	PK	2.44G	103.90	Inf	-Inf	3	Horizontal	50	1.04	-
2440MHz	Pass	PK	2.486G	59.22	74.00	-14.78	3	Horizontal	50	1.04	-
2440MHz	Pass	AV	4.8845G	21.45	54.00	-32.55	3	Vertical	64	1.00	-
2440MHz	Pass	AV	7.3187G	27.98	54.00	-26.02	3	Vertical	194	1.50	-
2440MHz	Pass	PK	4.8845G	43.95	74.00	-30.05	3	Vertical	64	1.00	-
2440MHz	Pass	PK	7.3187G	50.48	74.00	-23.52	3	Vertical	194	1.50	-
2440MHz	Pass	AV	4.8806G	21.19	54.00	-32.81	3	Horizontal	72	1.64	-
2440MHz	Pass	AV	7.31692G	28.12	54.00	-25.88	3	Horizontal	126	1.82	-
2440MHz	Pass	PK	4.8806G	43.69	74.00	-30.31	3	Horizontal	72	1.64	-
2440MHz	Pass	PK	7.31692G	50.62	74.00	-23.38	3	Horizontal	126	1.82	-
2480MHz	Pass	AV	2.48G	75.74	Inf	-Inf	3	Vertical	86	2.84	-
2480MHz	Pass	AV	2.4952G	35.85	54.00	-18.15	3	Vertical	86	2.84	-
2480MHz	Pass	PK	2.48G	98.24	Inf	-Inf	3	Vertical	86	2.84	-
2480MHz	Pass	PK	2.4952G	58.35	74.00	-15.65	3	Vertical	86	2.84	-
2480MHz	Pass	AV	2.48G	82.39	Inf	-Inf	3	Horizontal	45	1.50	-
2480MHz	Pass	AV	2.4835G	37.35	54.00	-16.65	3	Horizontal	45	1.50	-
2480MHz	Pass	PK	2.48G	104.89	Inf	-Inf	3	Horizontal	45	1.50	-
2480MHz	Pass	PK	2.4835G	59.85	74.00	-14.15	3	Horizontal	45	1.50	-
2480MHz	Pass	AV	4.97188G	21.87	54.00	-32.13	3	Vertical	108	1.91	-
2480MHz	Pass	AV	7.44558G	28.19	54.00	-25.81	3	Vertical	23	1.50	-
2480MHz	Pass	PK	4.97188G	44.45	74.00	-29.55	3	Vertical	108	1.91	-
2480MHz	Pass	PK	7.44558G	50.70	74.00	-23.30	3	Vertical	23	1.50	-
2480MHz	Pass	AV	4.94962G	21.83	54.00	-32.17	3	Horizontal	166	1.58	-
2480MHz	Pass	AV	7.45176G	28.28	54.00	-25.72	3	Horizontal	350	1.67	-
2480MHz	Pass	PK	4.94962G	44.33	74.00	-29.67	3	Horizontal	166	1.58	-
2480MHz	Pass	PK	7.45176G	50.78	74.00	-23.22	3	Horizontal	350	1.67	-

BT-BR(1Mbps)

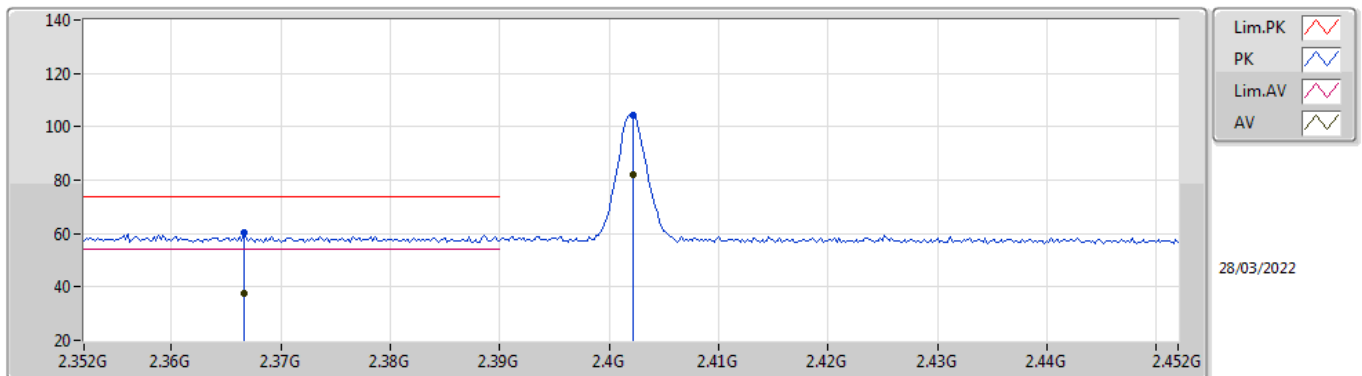
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3658G	36.72	54.00	-17.28	35.01	3	Vertical	169	2.50	-	1.71	27.77	7.24	-
AV	2.4022G	77.07	Inf	-Inf	34.95	3	Vertical	169	2.50	-	42.12	27.69	7.26	-
PK	2.3658G	59.22	74.00	-14.78	35.01	3	Vertical	169	2.50	-	24.21	27.77	7.24	-
PK	2.4022G	99.57	Inf	-Inf	34.95	3	Vertical	169	2.50	-	64.62	27.69	7.26	-

BT-BR(1Mbps)

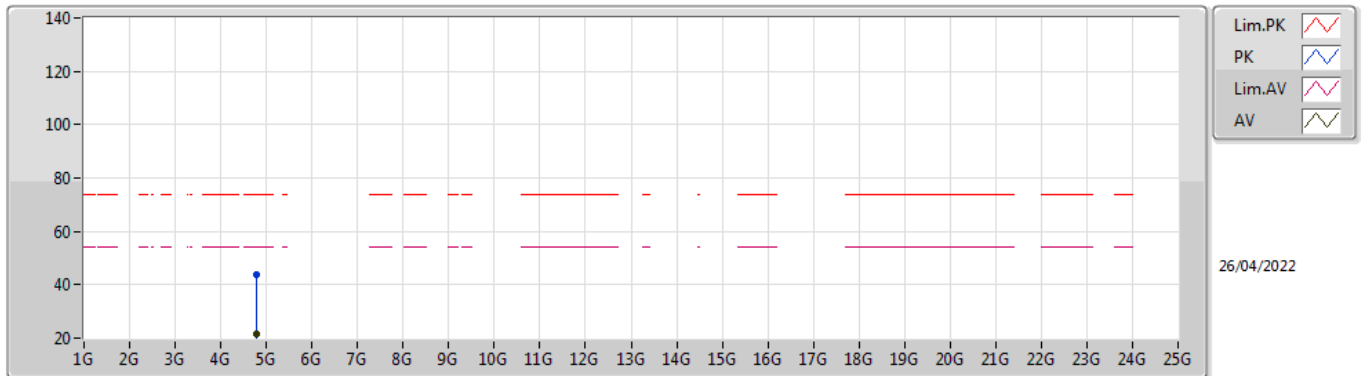
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3666G	37.77	54.00	-16.23	35.01	3	Horizontal	69	1.48	-	2.76	27.77	7.24	-
AV	2.4022G	81.92	Inf	-Inf	34.95	3	Horizontal	69	1.48	-	46.97	27.69	7.26	-
PK	2.3666G	60.27	74.00	-13.73	35.01	3	Horizontal	69	1.48	-	25.26	27.77	7.24	-
PK	2.4022G	104.42	Inf	-Inf	34.95	3	Horizontal	69	1.48	-	69.47	27.69	7.26	-

BT-BR(1Mbps)

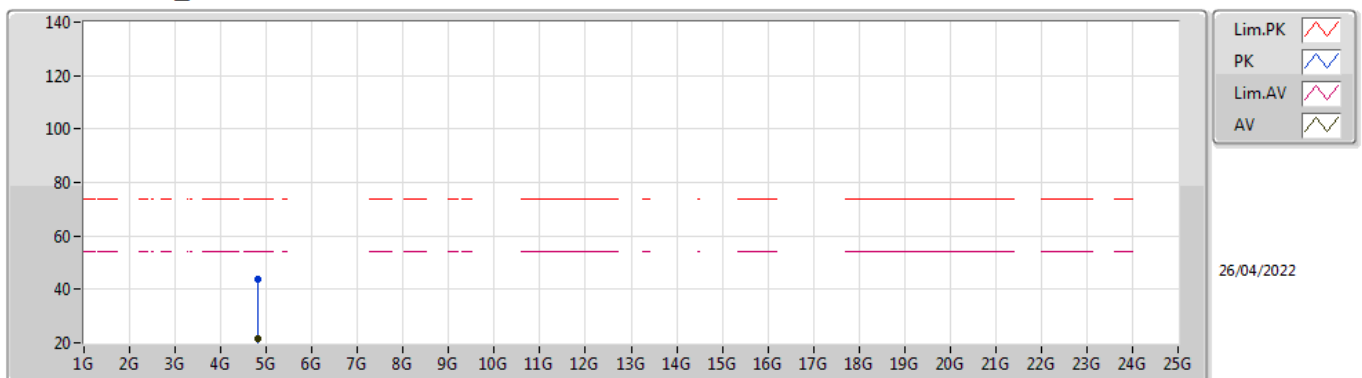
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.7929G	21.46	54.00	-32.54	6.60	3	Vertical	263	1.50	-	14.86	31.13	9.67	34.20
PK	4.7929G	43.96	74.00	-30.04	6.60	3	Vertical	263	1.50	-	37.36	31.13	9.67	34.20

BT-BR(1Mbps)

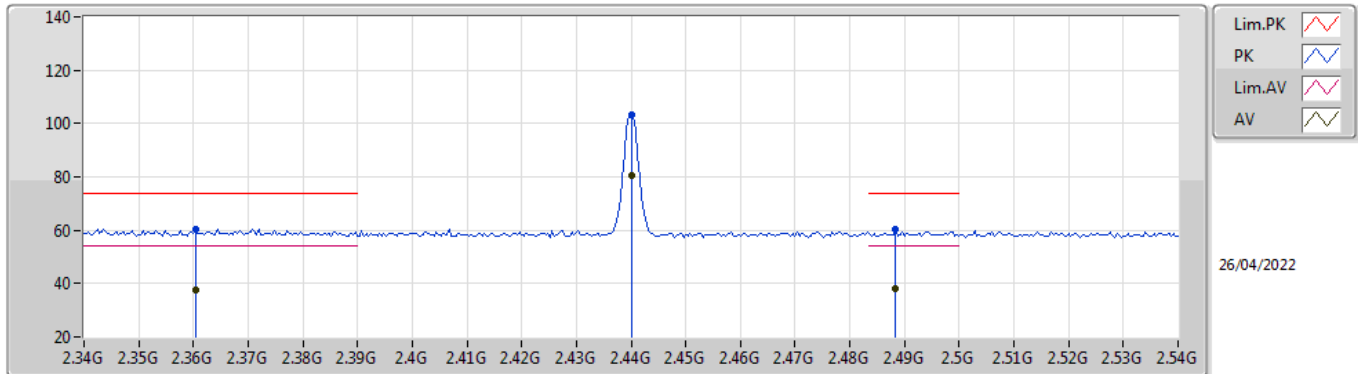
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.79878G	21.36	54.00	-32.64	6.57	3	Horizontal	22	1.50	-	14.79	31.10	9.67	34.20
PK	4.79878G	43.86	74.00	-30.14	6.57	3	Horizontal	22	1.50	-	37.29	31.10	9.67	34.20

BT-BR(1Mbps)

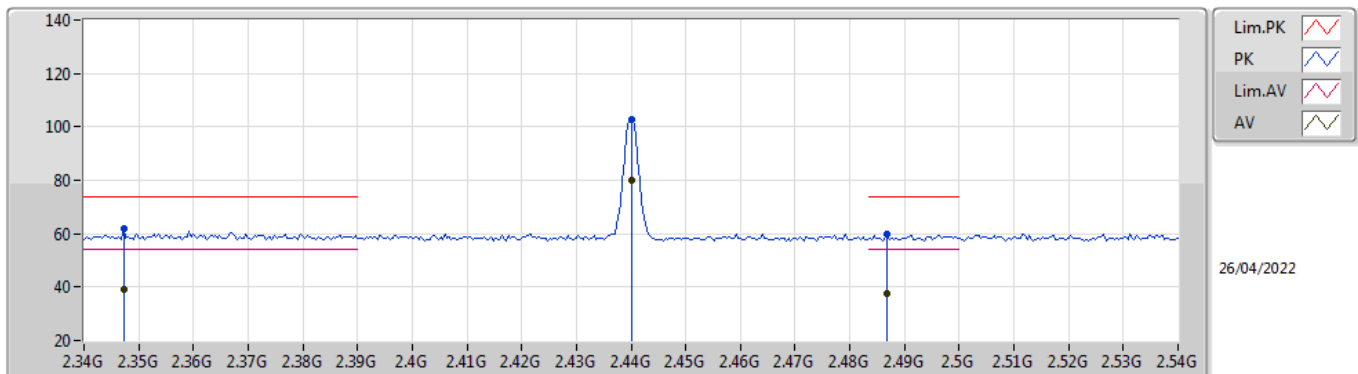
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3604G	37.76	54.00	-16.24	36.04	3	Vertical	220	2.74	-	1.72	27.78	8.26	-
AV	2.44G	80.75	Inf	-Inf	35.78	3	Vertical	220	2.74	-	44.97	27.46	8.32	-
AV	2.4884G	37.91	54.00	-16.09	35.75	3	Vertical	220	2.74	-	2.16	27.40	8.35	-
PK	2.3604G	60.25	74.00	-13.75	36.04	3	Vertical	220	2.74	-	24.21	27.78	8.26	-
PK	2.44G	103.25	Inf	-Inf	35.78	3	Vertical	220	2.74	-	67.47	27.46	8.32	-
PK	2.4884G	60.41	74.00	-13.59	35.75	3	Vertical	220	2.74	-	24.66	27.40	8.35	-

BT-BR(1Mbps)

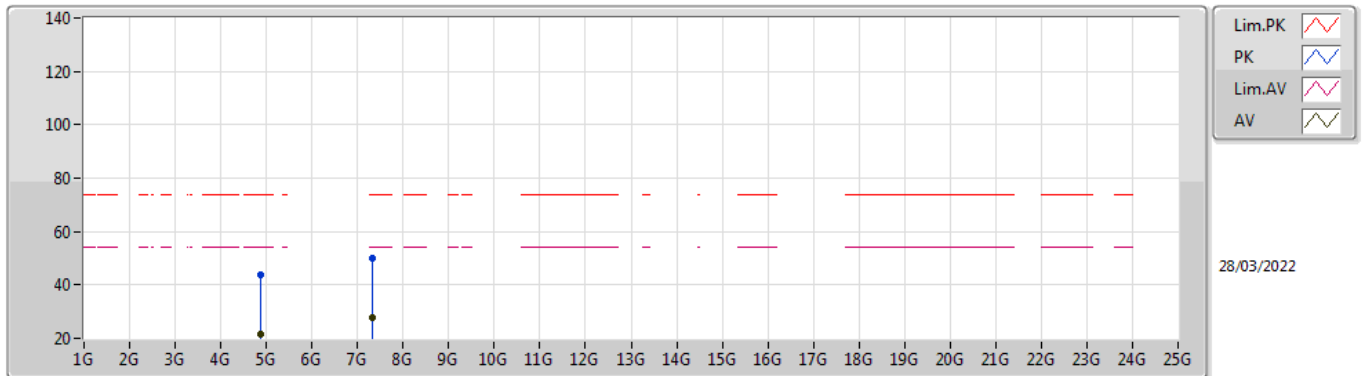
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3472G	39.35	54.00	-14.65	36.06	3	Horizontal	53	1.06	-	3.29	27.81	8.25	-
AV	2.44G	80.20	Inf	-Inf	35.78	3	Horizontal	53	1.06	-	44.42	27.46	8.32	-
AV	2.4868G	37.33	54.00	-16.67	35.75	3	Horizontal	53	1.06	-	1.58	27.40	8.35	-
PK	2.3472G	61.85	74.00	-12.15	36.06	3	Horizontal	53	1.06	-	25.79	27.81	8.25	-
PK	2.44G	102.70	Inf	-Inf	35.78	3	Horizontal	53	1.06	-	66.92	27.46	8.32	-
PK	2.4868G	59.83	74.00	-14.17	35.75	3	Horizontal	53	1.06	-	24.08	27.40	8.35	-

BT-BR(1Mbps)

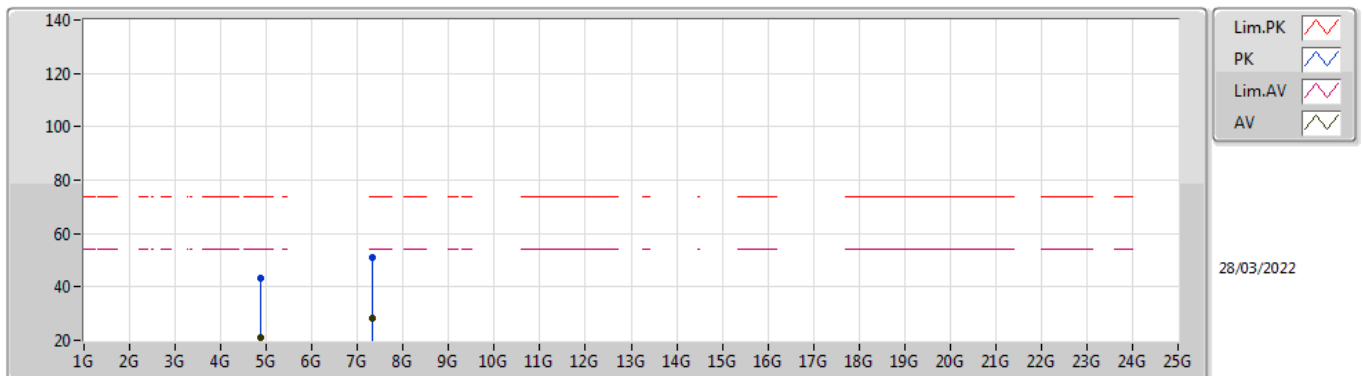
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87562G	21.44	54.00	-32.56	6.00	3	Vertical	205	1.33	-	15.44	31.20	8.96	34.16
AV	7.31922G	27.59	54.00	-26.41	12.49	3	Vertical	148	2.24	-	15.10	36.36	10.63	34.50
PK	4.87562G	43.94	74.00	-30.06	6.00	3	Vertical	205	1.33	-	37.94	31.20	8.96	34.16
PK	7.31922G	50.09	74.00	-23.91	12.49	3	Vertical	148	2.24	-	37.60	36.36	10.63	34.50

BT-BR(1Mbps)

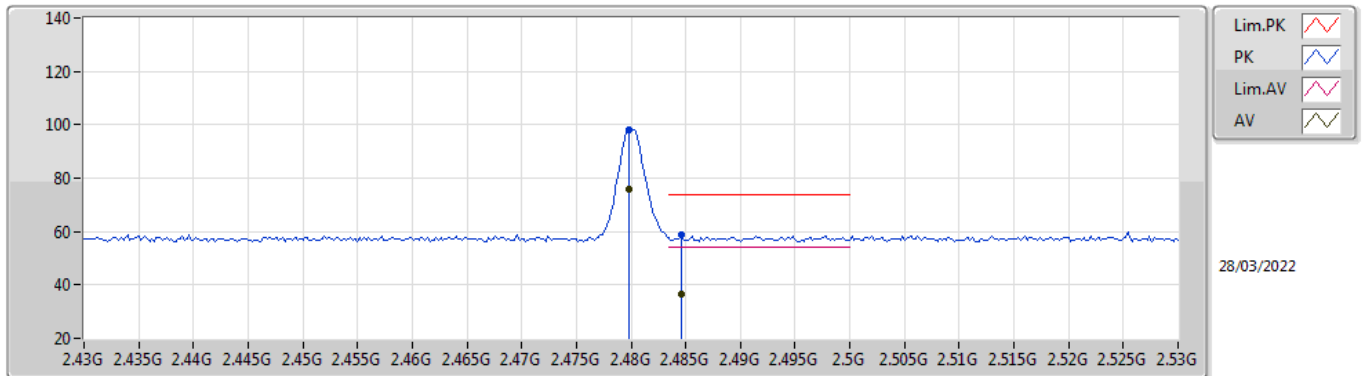
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88096G	21.03	54.00	-32.97	6.00	3	Horizontal	31	1.81	-	15.03	31.20	8.96	34.16
AV	7.3217G	28.36	54.00	-25.64	12.49	3	Horizontal	197	2.19	-	15.87	36.36	10.63	34.50
PK	4.88096G	43.53	74.00	-30.47	6.00	3	Horizontal	31	1.81	-	37.53	31.20	8.96	34.16
PK	7.3217G	50.86	74.00	-23.14	12.49	3	Horizontal	197	2.19	-	38.37	36.36	10.63	34.50

BT-BR(1Mbps)

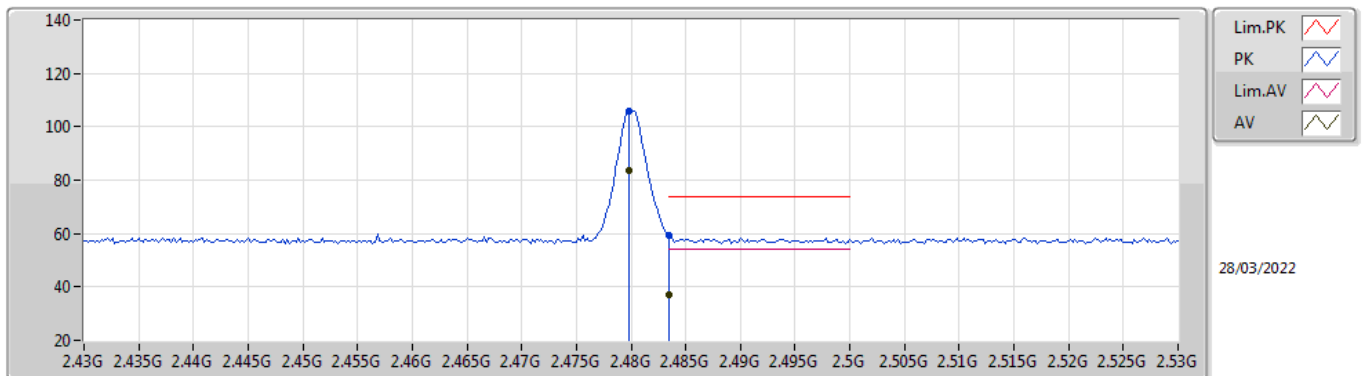
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	75.72	Inf	-Inf	34.72	3	Vertical	69	2.53	-	41.00	27.40	7.32	-
AV	2.4846G	36.32	54.00	-17.68	34.73	3	Vertical	69	2.53	-	1.59	27.40	7.33	-
PK	2.4798G	98.22	Inf	-Inf	34.72	3	Vertical	69	2.53	-	63.50	27.40	7.32	-
PK	2.4846G	58.82	74.00	-15.18	34.73	3	Vertical	69	2.53	-	24.09	27.40	7.33	-

BT-BR(1Mbps)

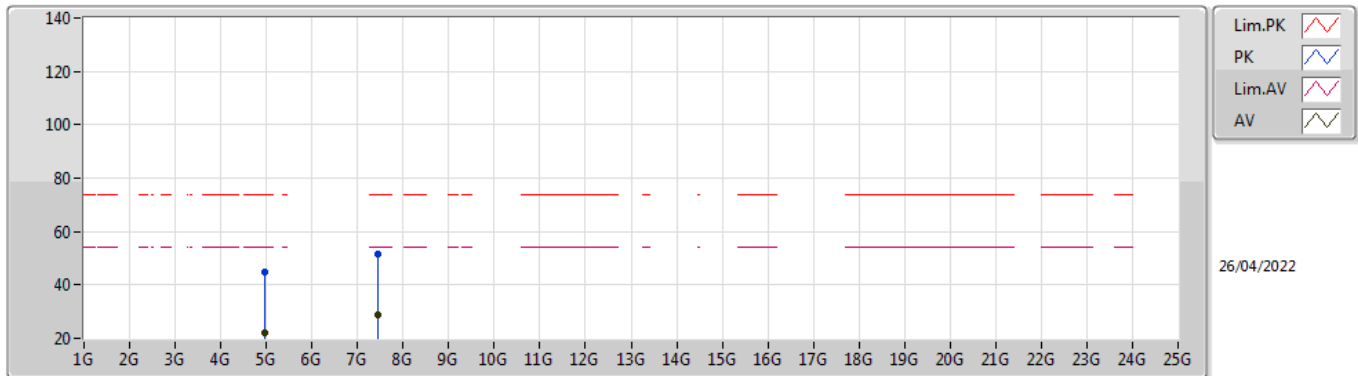
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	83.48	Inf	-Inf	34.72	3	Horizontal	46	1.49	-	48.76	27.40	7.32	-
AV	2.4835G	36.95	54.00	-17.05	34.73	3	Horizontal	46	1.49	-	2.22	27.40	7.33	-
PK	2.4798G	105.98	Inf	-Inf	34.72	3	Horizontal	46	1.49	-	71.26	27.40	7.32	-
PK	2.4835G	59.45	74.00	-14.55	34.73	3	Horizontal	46	1.49	-	24.72	27.40	7.33	-

BT-BR(1Mbps)

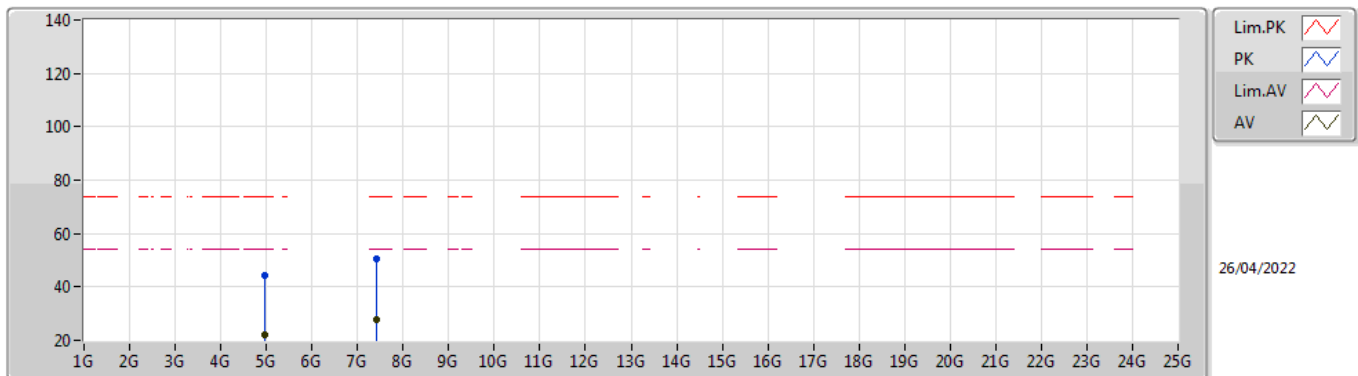
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9507G	22.17	54.00	-31.83	7.01	3	Vertical	156	1.09	-	15.16	31.40	9.73	34.12
AV	7.43472G	28.89	54.00	-25.11	13.09	3	Vertical	55	1.50	-	15.80	36.27	11.31	34.49
PK	4.9507G	44.67	74.00	-29.33	7.01	3	Vertical	156	1.09	-	37.66	31.40	9.73	34.12
PK	7.43472G	51.39	74.00	-22.61	13.09	3	Vertical	55	1.50	-	38.30	36.27	11.31	34.49

BT-BR(1Mbps)

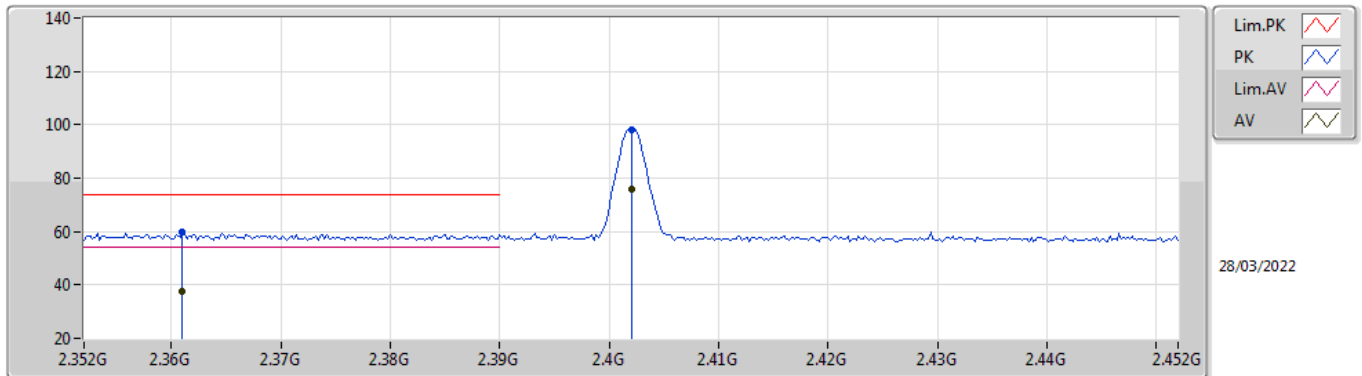
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.97398G	21.95	54.00	-32.05	7.08	3	Horizontal	323	1.50	-	14.87	31.45	9.74	34.11
AV	7.42986G	27.86	54.00	-26.14	13.08	3	Horizontal	239	1.83	-	14.78	36.26	11.31	34.49
PK	4.97398G	44.45	74.00	-29.55	7.08	3	Horizontal	323	1.50	-	37.37	31.45	9.74	34.11
PK	7.42986G	50.36	74.00	-23.64	13.08	3	Horizontal	239	1.83	-	37.28	36.26	11.31	34.49

BT-EDR(3Mbps)

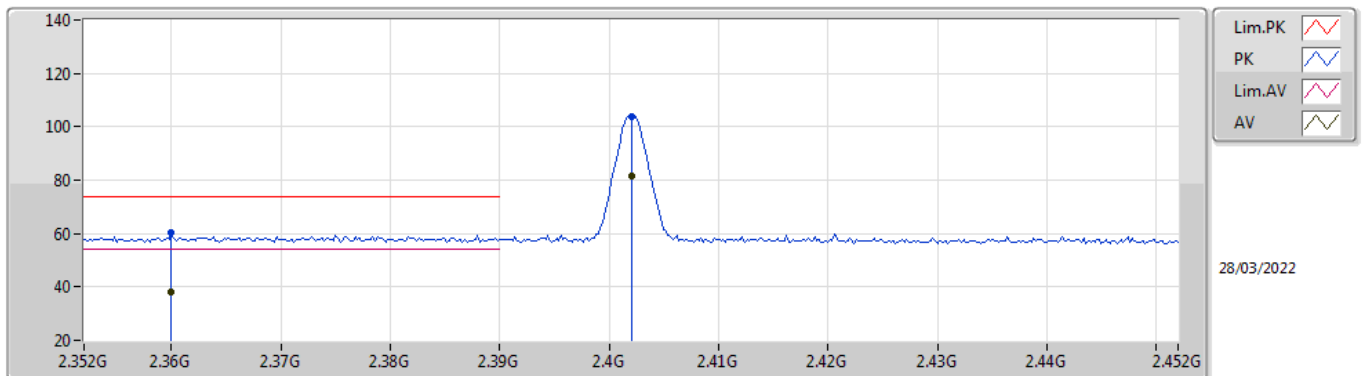
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.361G	37.42	54.00	-16.58	35.02	3	Vertical	169	2.50	-	2.40	27.78	7.24	-
AV	2.402G	75.61	Inf	-Inf	34.95	3	Vertical	169	2.50	-	40.66	27.69	7.26	-
PK	2.361G	59.92	74.00	-14.08	35.02	3	Vertical	169	2.50	-	24.90	27.78	7.24	-
PK	2.402G	98.11	Inf	-Inf	34.95	3	Vertical	169	2.50	-	63.16	27.69	7.26	-

BT-EDR(3Mbps)

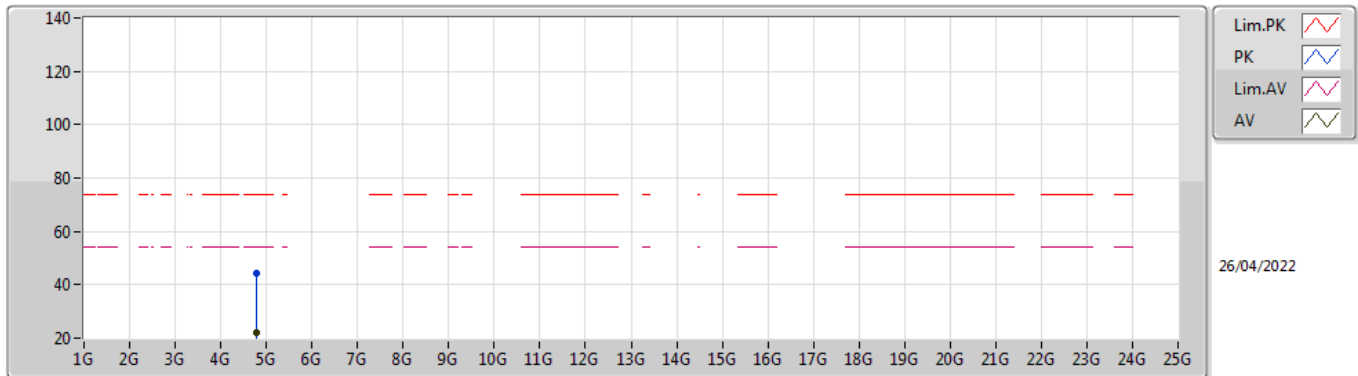
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.36G	37.86	54.00	-16.14	35.02	3	Horizontal	66	1.07	-	2.84	27.78	7.24	-
AV	2.402G	81.48	Inf	-Inf	34.95	3	Horizontal	66	1.07	-	46.53	27.69	7.26	-
PK	2.36G	60.36	74.00	-13.64	35.02	3	Horizontal	66	1.07	-	25.34	27.78	7.24	-
PK	2.402G	103.98	Inf	-Inf	34.95	3	Horizontal	66	1.07	-	69.03	27.69	7.26	-

BT-EDR(3Mbps)

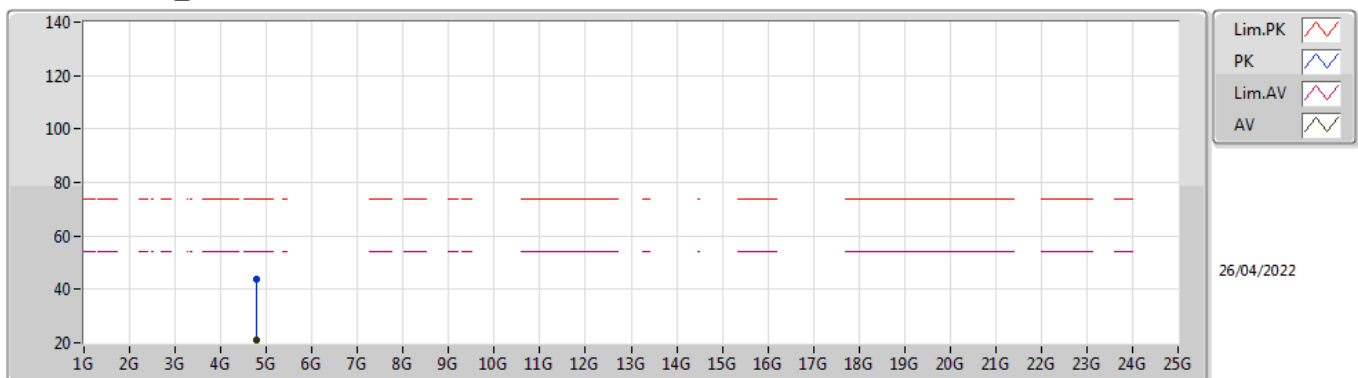
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.78918G	21.94	54.00	-32.06	6.60	3	Vertical	53	1.50	-	15.34	31.14	9.66	34.20
PK	4.78918G	44.44	74.00	-29.56	6.60	3	Vertical	53	1.50	-	37.84	31.14	9.66	34.20

BT-EDR(3Mbps)

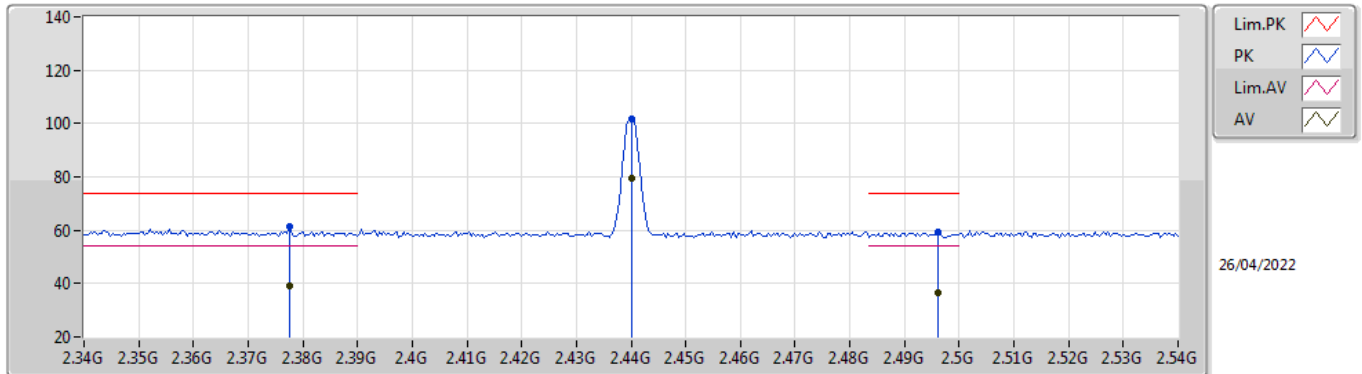
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.7926G	21.22	54.00	-32.78	6.62	3	Horizontal	263	1.21	-	14.60	31.13	9.68	34.19
PK	4.7926G	43.69	74.00	-30.31	6.59	3	Horizontal	263	1.21	-	37.10	31.13	9.66	34.20

BT-EDR(3Mbps)

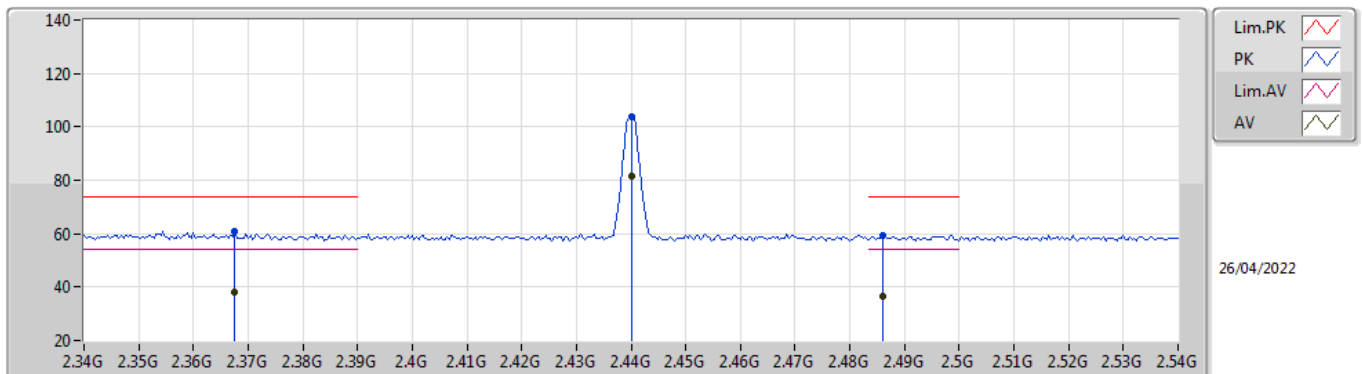
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3776G	38.89	54.00	-15.11	36.01	3	Vertical	220	2.74	-	2.88	27.74	8.27	-
AV	2.44G	79.41	Inf	-Inf	35.78	3	Vertical	220	2.74	-	43.63	27.46	8.32	-
AV	2.496G	36.77	54.00	-17.23	35.75	3	Vertical	220	2.74	-	1.02	27.40	8.35	-
PK	2.3776G	61.39	74.00	-12.61	36.01	3	Vertical	220	2.74	-	25.38	27.74	8.27	-
PK	2.44G	101.91	Inf	-Inf	35.78	3	Vertical	220	2.74	-	66.13	27.46	8.32	-
PK	2.496G	59.27	74.00	-14.73	35.75	3	Vertical	220	2.74	-	23.52	27.40	8.35	-

BT-EDR(3Mbps)

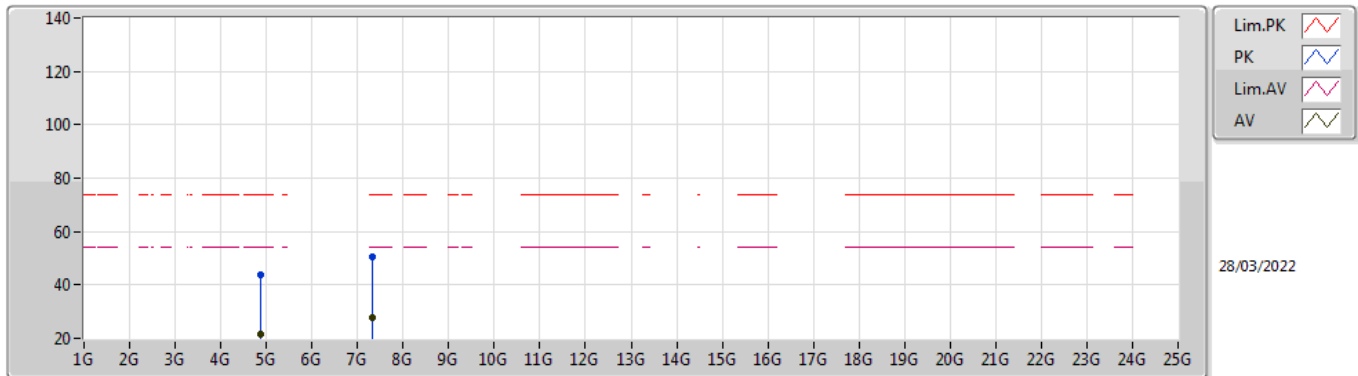
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3676G	38.19	54.00	-15.81	36.03	3	Horizontal	50	1.04	-	2.16	27.76	8.27	-
AV	2.44G	81.40	Inf	-Inf	35.78	3	Horizontal	50	1.04	-	45.62	27.46	8.32	-
AV	2.486G	36.72	54.00	-17.28	35.75	3	Horizontal	50	1.04	-	0.97	27.40	8.35	-
PK	2.3676G	60.69	74.00	-13.31	36.03	3	Horizontal	50	1.04	-	24.66	27.76	8.27	-
PK	2.44G	103.90	Inf	-Inf	35.78	3	Horizontal	50	1.04	-	68.12	27.46	8.32	-
PK	2.486G	59.22	74.00	-14.78	35.75	3	Horizontal	50	1.04	-	23.47	27.40	8.35	-

BT-EDR(3Mbps)

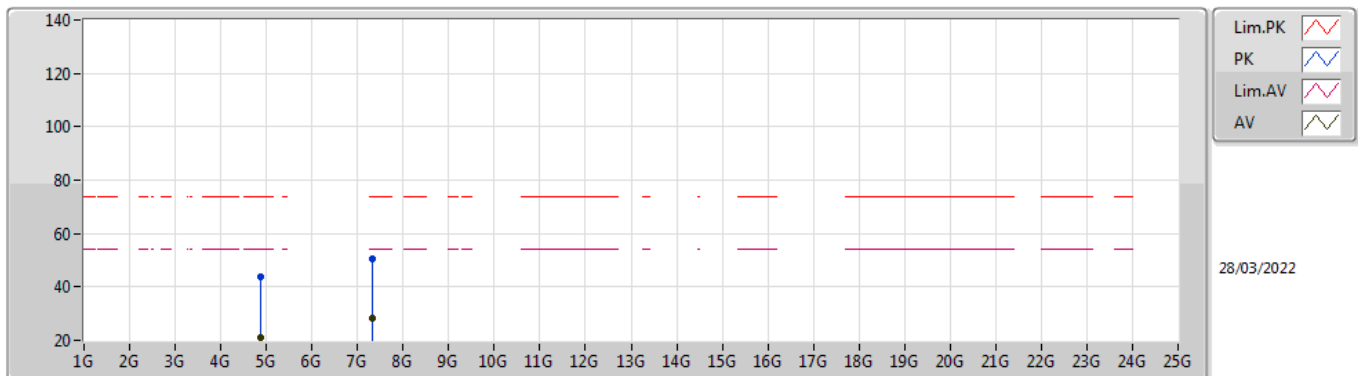
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8845G	21.45	54.00	-32.55	6.00	3	Vertical	64	1.00	-	15.45	31.20	8.96	34.16
AV	7.3187G	27.98	54.00	-26.02	12.49	3	Vertical	194	1.50	-	15.49	36.36	10.63	34.50
PK	4.8845G	43.95	74.00	-30.05	6.00	3	Vertical	64	1.00	-	37.95	31.20	8.96	34.16
PK	7.3187G	50.48	74.00	-23.52	12.49	3	Vertical	194	1.50	-	37.99	36.36	10.63	34.50

BT-EDR(3Mbps)

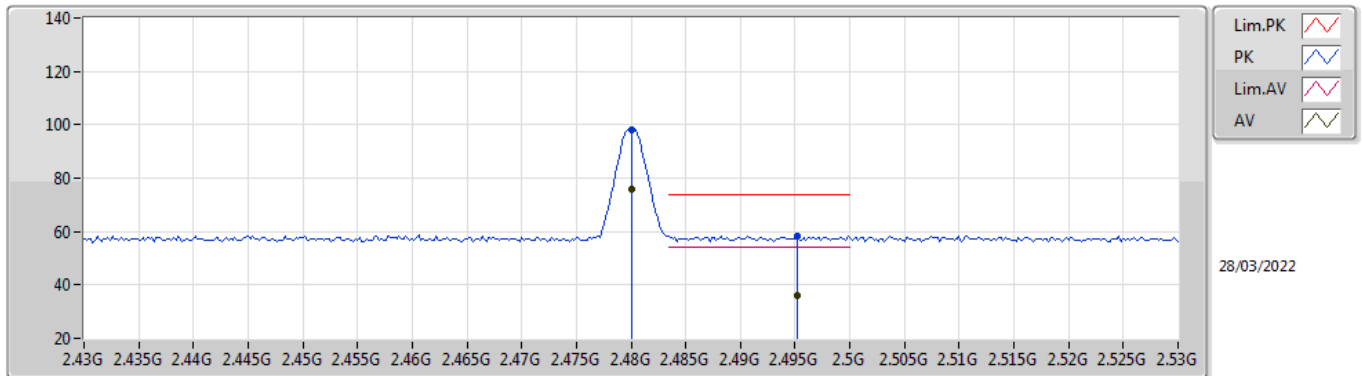
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8806G	21.19	54.00	-32.81	6.00	3	Horizontal	72	1.64	-	15.19	31.20	8.96	34.16
AV	7.3169G	28.12	54.00	-25.88	12.50	3	Horizontal	126	1.82	-	15.62	36.37	10.63	34.50
PK	4.8806G	43.69	74.00	-30.31	6.00	3	Horizontal	72	1.64	-	37.69	31.20	8.96	34.16
PK	7.3169G	50.62	74.00	-23.38	12.50	3	Horizontal	126	1.82	-	38.12	36.37	10.63	34.50

BT-EDR(3Mbps)

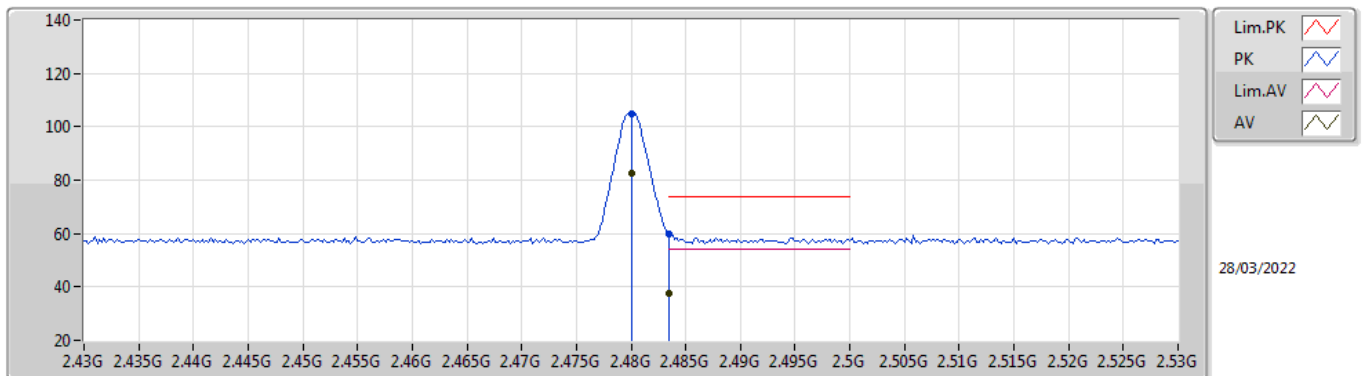
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	75.74	Inf	-Inf	34.72	3	Vertical	86	2.84	-	41.02	27.40	7.32	-
AV	2.4952G	35.85	54.00	-18.15	34.74	3	Vertical	86	2.84	-	1.11	27.40	7.34	-
PK	2.48G	98.24	Inf	-Inf	34.72	3	Vertical	86	2.84	-	63.52	27.40	7.32	-
PK	2.4952G	58.35	74.00	-15.65	34.74	3	Vertical	86	2.84	-	23.61	27.40	7.34	-

BT-EDR(3Mbps)

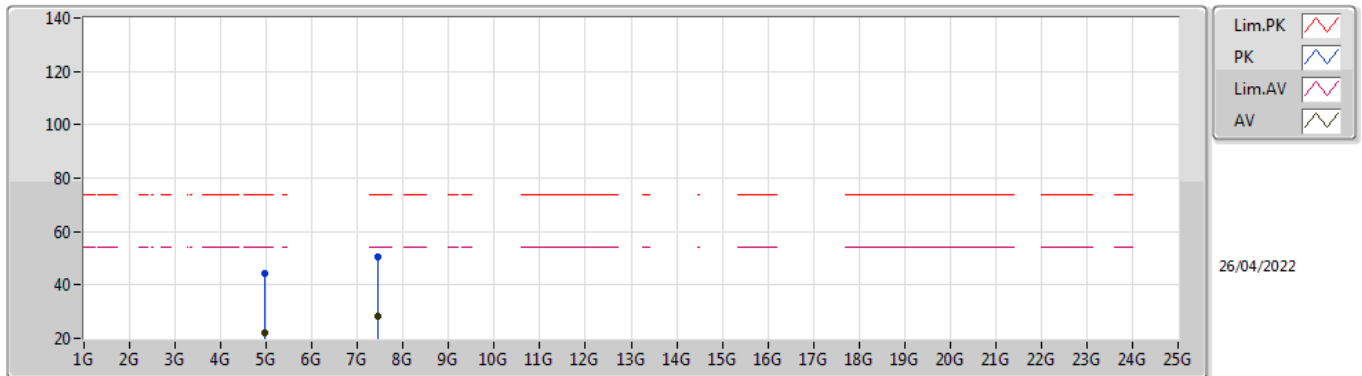
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	82.39	Inf	-Inf	34.72	3	Horizontal	45	1.50	-	47.67	27.40	7.32	-
AV	2.4835G	37.35	54.00	-16.65	34.73	3	Horizontal	45	1.50	-	2.62	27.40	7.33	-
PK	2.48G	104.89	Inf	-Inf	34.72	3	Horizontal	45	1.50	-	70.17	27.40	7.32	-
PK	2.4835G	59.85	74.00	-14.15	34.73	3	Horizontal	45	1.50	-	25.12	27.40	7.33	-

BT-EDR(3Mbps)

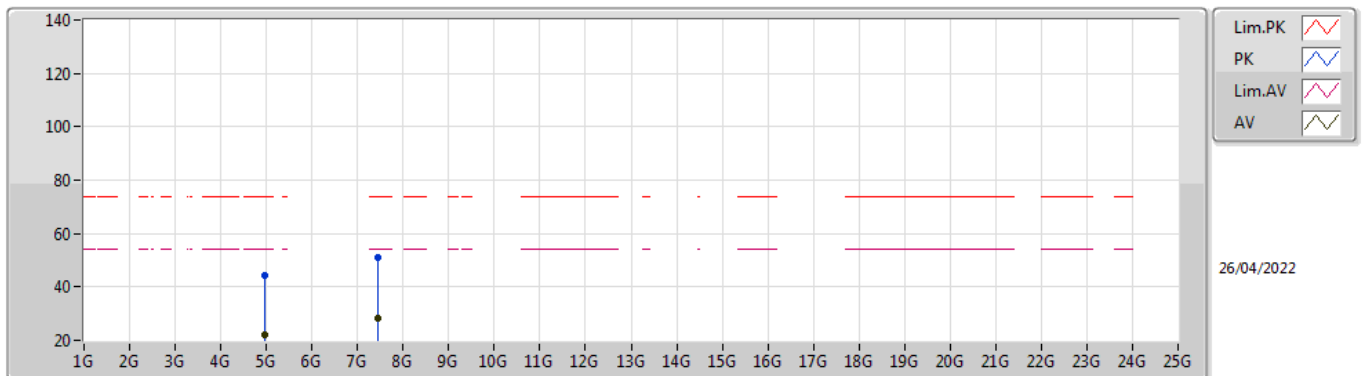
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.97188G	21.87	54.00	-32.13	6.99	3	Vertical	108	1.91	-	14.88	31.39	9.73	34.13
AV	7.44558G	28.19	54.00	-25.81	13.08	3	Vertical	23	1.50	-	15.11	36.26	11.31	34.49
PK	4.97188G	44.45	74.00	-29.55	7.07	3	Vertical	108	1.91	-	37.38	31.44	9.74	34.11
PK	7.44558G	50.70	74.00	-23.30	13.09	3	Vertical	23	1.50	-	37.61	36.29	11.29	34.49

BT-EDR(3Mbps)

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.94962G	21.83	54.00	-32.17	7.01	3	Horizontal	166	1.58	-	14.82	31.40	9.73	34.12
AV	7.45176G	28.28	54.00	-25.72	13.11	3	Horizontal	350	1.67	-	15.17	36.30	11.29	34.48
PK	4.94962G	44.33	74.00	-29.67	7.01	3	Horizontal	166	1.58	-	37.32	31.40	9.73	34.12
PK	7.45176G	50.78	74.00	-23.22	13.11	3	Horizontal	350	1.67	-	37.67	36.30	11.29	34.48



Summary

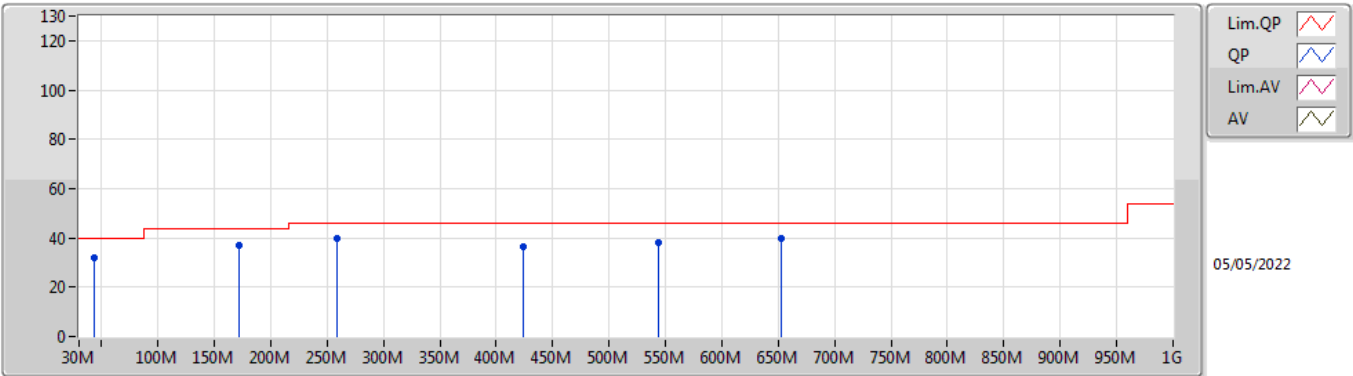
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	652.74M	39.80	46.00	-6.20	3	Vertical	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	43.58M	32.05	40.00	-7.95	3	Vertical	0	1.00	-
2440MHz	Pass	PK	171.62M	36.89	43.50	-6.61	3	Vertical	0	1.00	-
2440MHz	Pass	PK	258.92M	39.51	46.00	-6.49	3	Vertical	0	1.00	-
2440MHz	Pass	PK	544.1M	38.32	46.00	-7.68	3	Vertical	0	1.00	-
2440MHz	Pass	PK	652.74M	39.80	46.00	-6.20	3	Vertical	0	1.00	-
2440MHz	Pass	QP	423.82M	36.49	46.00	-9.51	3	Vertical	166	1.02	-
2440MHz	Pass	PK	161.92M	36.29	43.50	-7.21	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	258.92M	38.14	46.00	-7.86	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	398.6M	39.08	46.00	-6.92	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	757.5M	39.62	46.00	-6.38	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	893.3M	39.25	46.00	-6.75	3	Horizontal	360	1.00	-
2440MHz	Pass	QP	652.74M	39.31	46.00	-6.69	3	Horizontal	196	1.75	-
2440MHz	Pass	PK	9.846k	63.78	127.72	-63.94	3	Vertical	0	1.00	-
2440MHz	Pass	PK	35.508k	60.70	116.59	-55.89	3	Vertical	0	1.00	-
2440MHz	Pass	PK	74.706k	52.89	110.13	-57.24	3	Vertical	0	1.00	-
2440MHz	Pass	PK	388.8k	57.75	95.80	-38.05	3	Vertical	360	1.00	-
2440MHz	Pass	PK	806.7k	46.64	69.48	-22.84	3	Vertical	360	1.00	-
2440MHz	Pass	PK	5.165M	43.80	69.50	-25.70	3	Vertical	360	1.00	-

BT-BR(1Mbps)

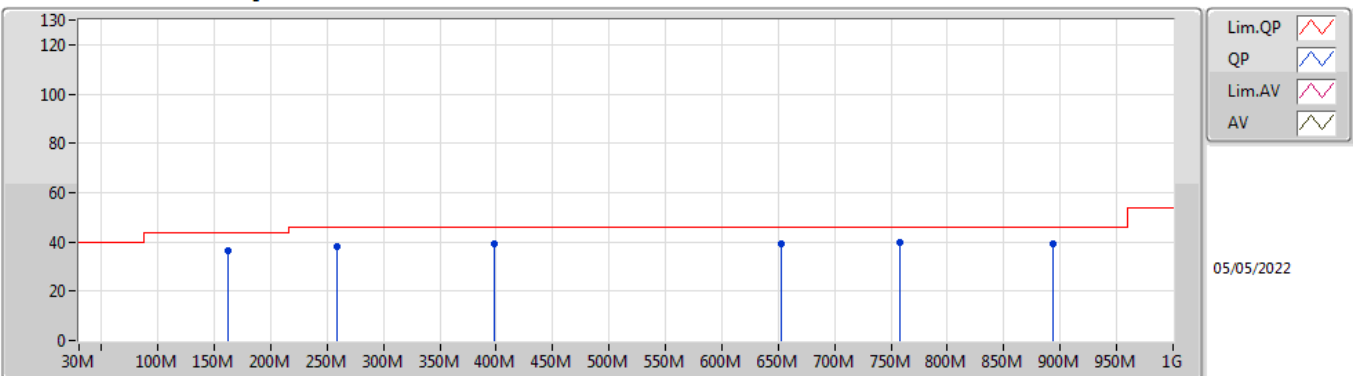
2440MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	43.58M	32.05	40.00	-7.95	-10.66	3	Vertical	0	1.00	-	42.71	15.82	1.03	27.51
PK	171.62M	36.89	43.50	-6.61	-10.81	3	Vertical	0	1.00	-	47.70	14.82	1.86	27.49
PK	258.92M	39.51	46.00	-6.49	-6.09	3	Vertical	0	1.00	-	45.60	18.64	2.30	27.03
PK	544.1M	38.32	46.00	-7.68	-1.40	3	Vertical	0	1.00	-	39.72	23.52	3.40	28.32
PK	652.74M	39.80	46.00	-6.20	-0.31	3	Vertical	0	1.00	-	40.11	24.18	3.71	28.20
QP	423.82M	36.49	46.00	-9.51	-3.13	3	Vertical	166	1.02	-	39.62	21.81	2.98	27.92

BT-BR(1Mbps)

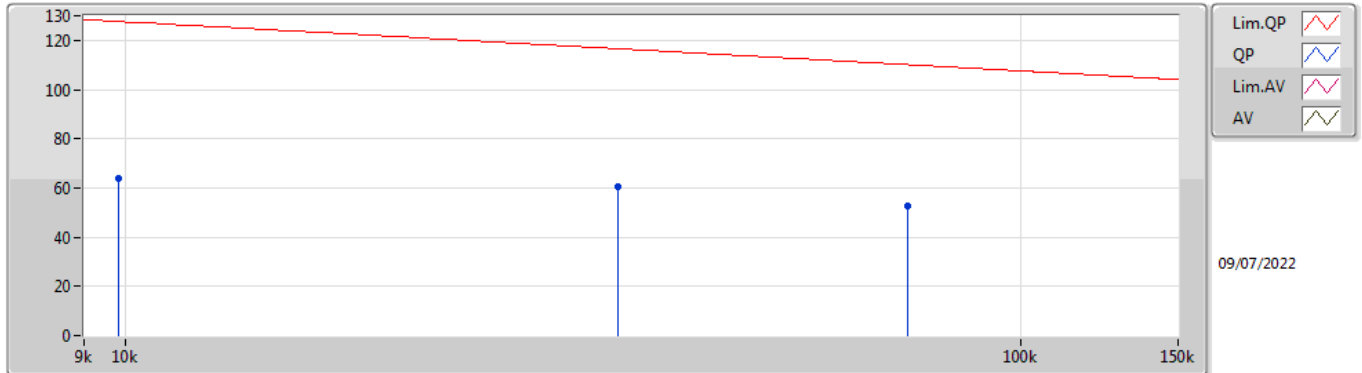
2440MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	161.92M	36.29	43.50	-7.21	-10.62	3	Horizontal	360	1.00	-	46.91	15.10	1.79	27.51
PK	258.92M	38.14	46.00	-7.86	-6.09	3	Horizontal	360	1.00	-	44.23	18.64	2.30	27.03
PK	398.6M	39.08	46.00	-6.92	-3.97	3	Horizontal	360	1.00	-	43.05	20.92	2.88	27.77
PK	757.5M	39.62	46.00	-6.38	0.90	3	Horizontal	360	1.00	-	38.72	24.94	4.00	28.04
PK	893.3M	39.25	46.00	-6.75	2.58	3	Horizontal	360	1.00	-	36.67	25.64	4.47	27.53
QP	652.74M	39.31	46.00	-6.69	-0.31	3	Horizontal	196	1.75	-	39.62	24.18	3.71	28.20

BT-BR(1Mbps)

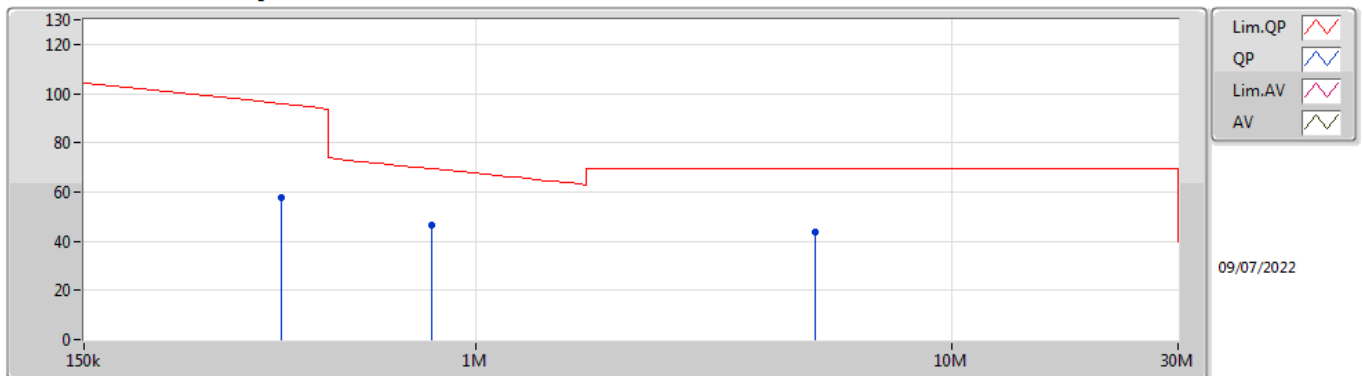
2440MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	9.846k	63.78	127.72	-63.94	19.14	3	Vertical	0	1.00	-	44.64	18.96	0.18	-
PK	35.508k	60.70	116.59	-55.89	21.58	3	Vertical	0	1.00	-	39.12	21.34	0.24	-
PK	74.706k	52.89	110.13	-57.24	20.44	3	Vertical	0	1.00	-	32.45	20.16	0.28	-

BT-BR(1Mbps)

2440MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	388.8k	57.75	95.80	-38.05	20.50	3	Vertical	360	1.00	-	37.25	20.20	0.30	-
PK	806.7k	46.64	69.48	-22.84	20.63	3	Vertical	360	1.00	-	26.01	20.27	0.36	-
PK	5.165M	43.80	69.50	-25.70	20.99	3	Vertical	360	1.00	-	22.81	20.38	0.61	-

Summary

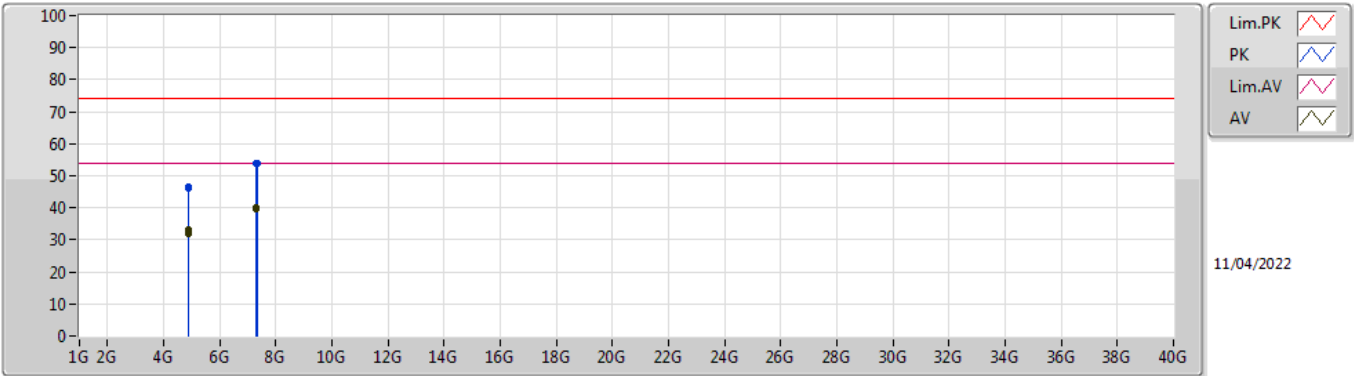
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	7.31776G	40.10	54.00	-13.90	Horizontal
Mode 2	Pass	AV	15.6027G	47.48	54.00	-6.52	Vertical
Mode 3	Pass	AV	7.31754G	38.06	54.00	-15.94	Vertical
Mode 4	Pass	AV	15.59356G	47.81	54.00	-6.19	Vertical

Result

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

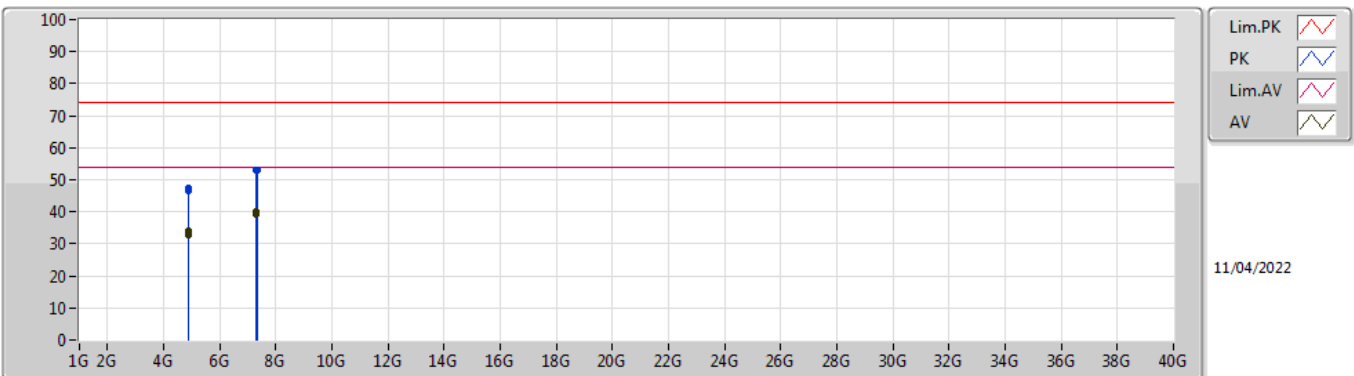
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 4	Pass	PK	7.32022G	51.57	74.00	-22.43	3	Vertical	107	1.05	-
Mode 4	Pass	PK	10.3926G	55.10	68.20	-13.10	3	Vertical	204	1.50	-
Mode 4	Pass	PK	15.59852G	56.51	74.00	-17.49	3	Vertical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

Radiated Emissions above 1GHz_Mode 1



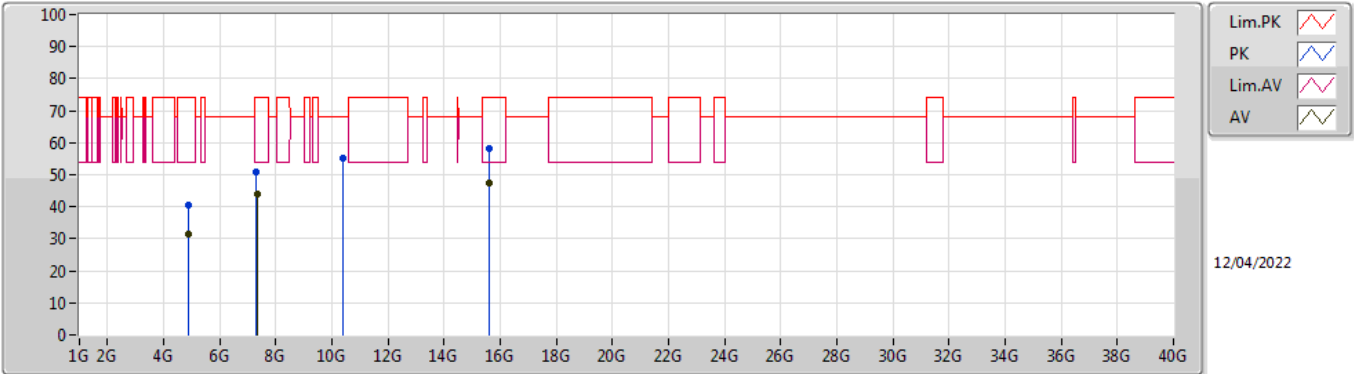
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.87395G	33.19	54.00	-20.81	6.74	3	Vertical	113	1.50	-	26.45	31.20	9.70	34.16
AV	4.88047G	31.80	54.00	-22.20	6.74	3	Vertical	216	1.50	-	25.06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

Radiated Emissions above 1GHz_Mode 1



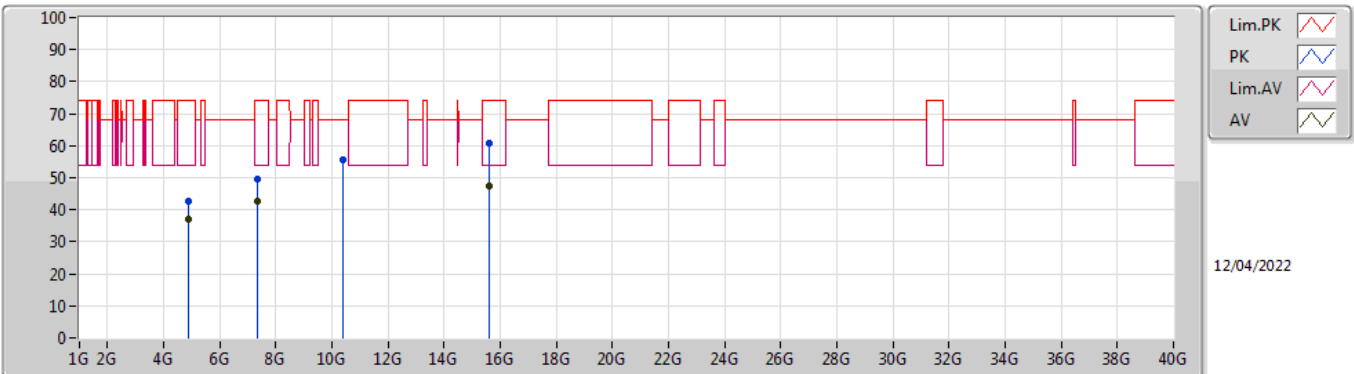
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.87409G	32.78	54.00	-21.22	6.74	3	Horizontal	360	2.50	-	26.04	31.20	9.70	34.16
AV	4.88052G	33.89	54.00	-20.11	6.74	3	Horizontal	94	1.65	-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

Radiated Emissions above 1GHz_Mode 2



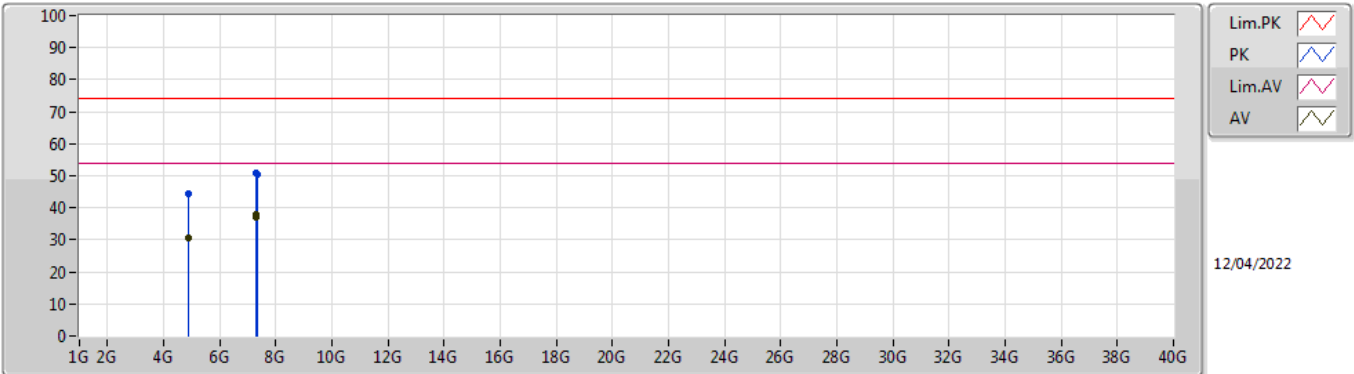
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.87984G	31.66	54.00	-22.34	6.74	3	Vertical	113	1.50	-	24.92	31.20	9.70	34.16
AV	7.31994G	43.99	54.00	-10.01	13.18	3	Vertical	0	2.50	-	30.81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

Radiated Emissions above 1GHz_Mode 2



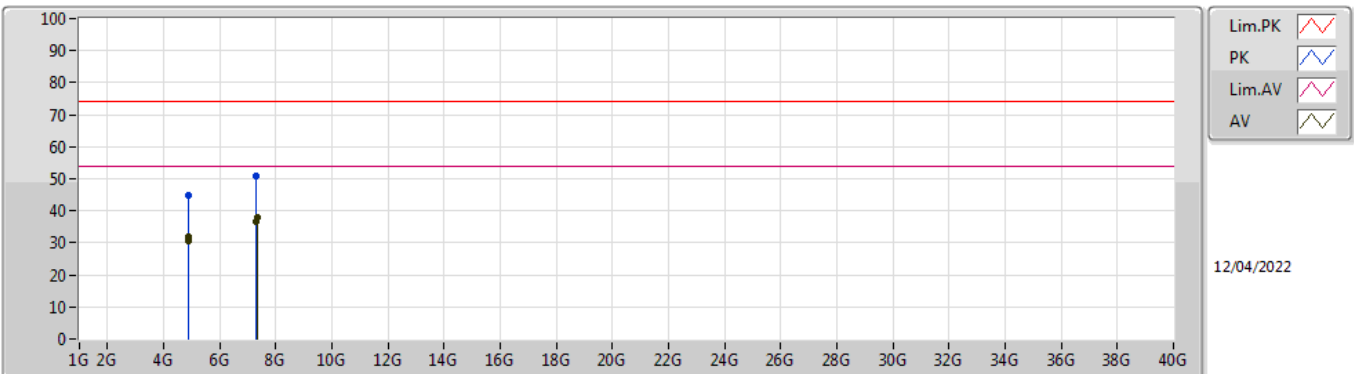
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.88004G	37.07	54.00	-16.93	6.74	3	Horizontal	20	1.21	-	30.33	31.20	9.70	34.16
AV	7.32G	42.73	54.00	-11.27	13.18	3	Horizontal	2	1.07	-	29.55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

Radiated Emissions above 1GHz_Mode 3



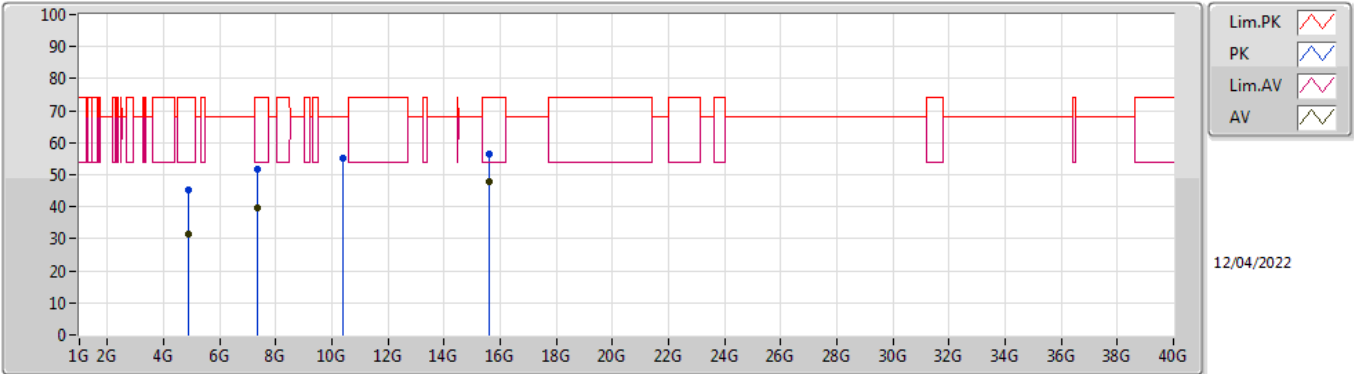
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.87256G	30.42	54.00	-23.58	6.74	3	Vertical	62	2.08	-	23.68	31.20	9.70	34.16
AV	4.87976G	30.46	54.00	-23.54	6.74	3	Vertical	273	2.01	-	23.72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

Radiated Emissions above 1GHz_Mode 3



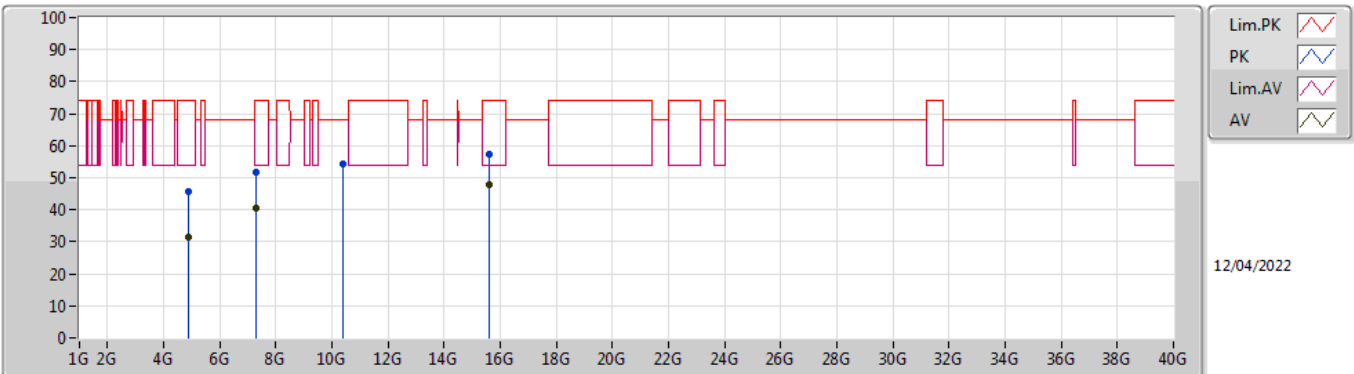
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.87545G	30.41	54.00	-23.59	6.74	3	Horizontal	326	1.50	-	23.67	31.20	9.70	34.16
AV	4.87977G	31.70	54.00	-22.30	6.74	3	Horizontal	272	1.50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

Radiated Emissions above 1GHz_Mode 4



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

Radiated Emissions above 1GHz_Mode 4



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