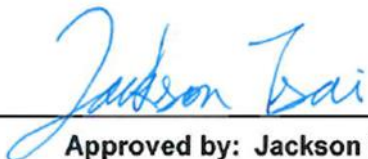


FCC Radio Test Report

FCC ID : C3K2028
Equipment : Computing Device
Brand Name : Microsoft Corporation
Model Name : 2028
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 Mar. 16, 2022, and testing was started from Apr. 02, 2022 and completed on Jul. 28, 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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**APPENDIX H. TEST PHOTOS
PHOTOGRAPHS OF EUT V01**



History of this test report

Report No.	Version	Description	Issued Date
FR230421AD	01	Initial issue of report	Aug. 09, 2022
FR230421AD	02	1. Add Duty Cycle plots This report is the latest version replacing for the report issued on Aug. 09, 2022	Aug. 18, 2022
FR230421AD	03	Add 3.7.3 section Duty Cycle Correction Factor Calculation This report is the latest version replacing for the report issued on Aug. 18, 2022	Sep. 01, 2022
FR230421AD	04	Revised typo This report is the latest version replacing for the report issued on Sep. 01, 2022	Sep. 13, 2022
FR230421AD	05	The Equipment Name and accessory was updated This report is the latest version replacing for the report issued on Sep. 13, 2022	Sep. 16, 2022

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 (Aux)	AWAN	AYP8Y-100012A(1415-09AW0QS) AYL00-000003A(1415-09AN0QS)	PIFA	I-Pex	2.4G+5G
2 (Main)	AWAN	AYP8Y-100011A(1415-09AM0QS) AYL00-000002A(1415-09AP0QS)	PIFA	I-Pex	2.4G+5G
3	AWAN	AYL8Y-100000A (1415-09AQ0QS)	PIFA	I-Pex	BT/BT LE

Ant.	Port	Gain (dBi)					BT/BT LE
		2.4G	5G				
			U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	
1	1	7.32	6.35	6.35	6.49	6.49	-
2	2	6.07	6.2	6.35	6.15	5.03	-
3	1	-	-	-	-	-	2.91

Note 1: The EUT has three antennas.

Note 2: Transmit signals are uncorrelated.

For 2.4GHz function:

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

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

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

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



For BT/BT LE function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)
Ant. 3 (port 1) could transmit/receive.

For 5GHz function:

For IEEE 802.11 a mode (1TX/1RX)
Support diversity function that each single chain was tested and recorded in this test report.
For IEEE 802.11 n/ac/ax mode (2TX/2RX)
Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

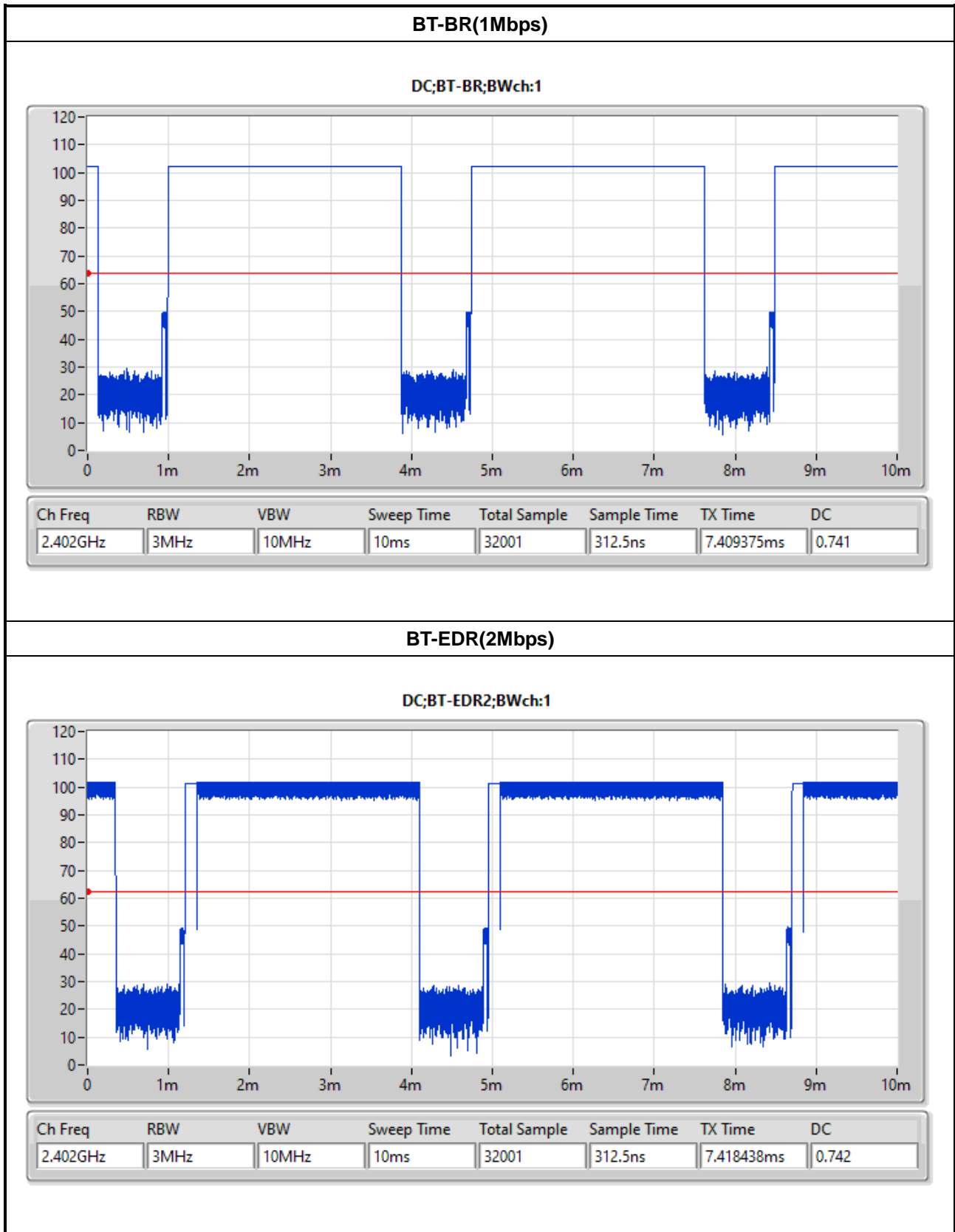
1.1.3 EUT Information

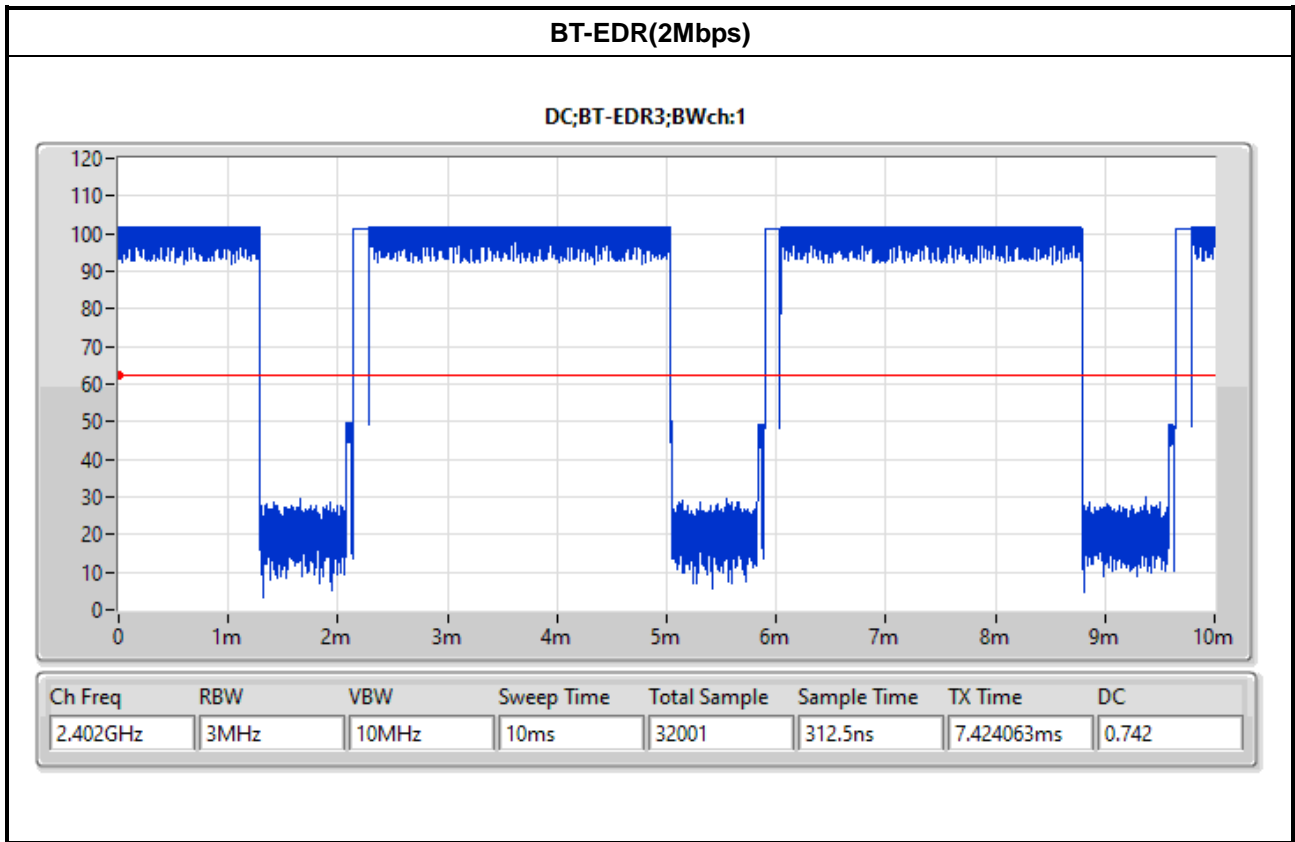
Operational Condition	
EUT Power Type	From Switching power supply
EUT Function	<input checked="" type="checkbox"/> Point-to-multipoint <input type="checkbox"/> Point-to-point
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully 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)	0.741	1.3	2.887m	1k
BT-EDR(2Mbps)	0.742	1.3	2.749m	1k
BT-EDR(3Mbps)	0.742	1.3	2.751m	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	Wayne Chiu	21.4~22.4°C / 55~58%	27/Jul/2022~28/Jul/2022
RF Conducted	TH01-HY	Johnny Yu	22.3~26.9°C / 54~59%	08/Apr/2022~08/Jul/2022
Radiated	03CH03-HY	Daniel Lin	20.7~25.3°C / 51~66%	02/Apr/2022~19/Jul/2022
<input 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.				

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	DRTU.00918.22.120.0
-----------------------	---------------------

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	Switching power supply mode
2	Switching power supply 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	Switching power supply mode	
2	Switching power supply mode, Full port	
Operating Mode > 1GHz	CTX	
Orthogonal Planes of EUT	Y Plane	Z Plane
		
Worst Planes of EUT	V	

2.3 Accessories

Accessories		
Keyboard	Brand Name	Microsoft
mouse	Brand Name	Microsoft
pen	Brand Name	Microsoft
power supply	Brand Name	WELLSHIN

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

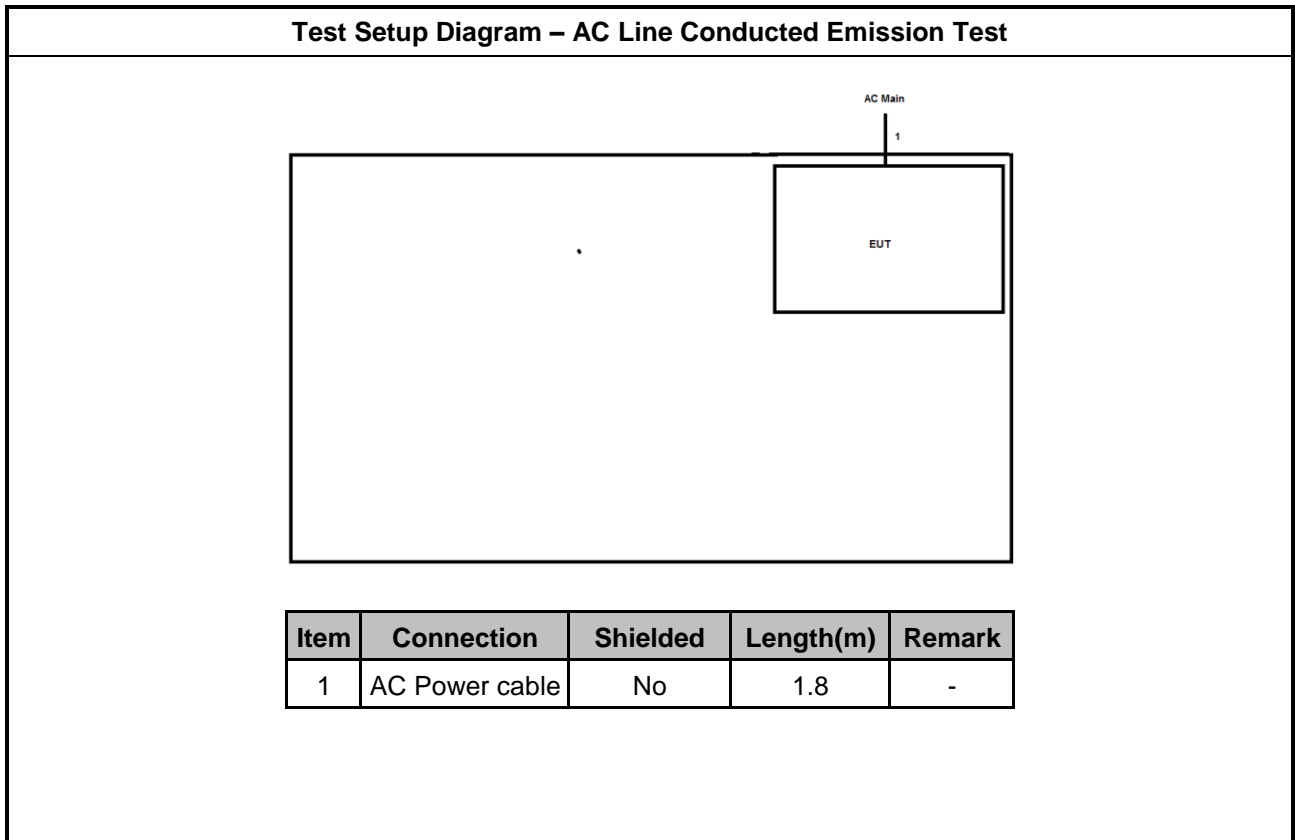


2.4 Support Equipment

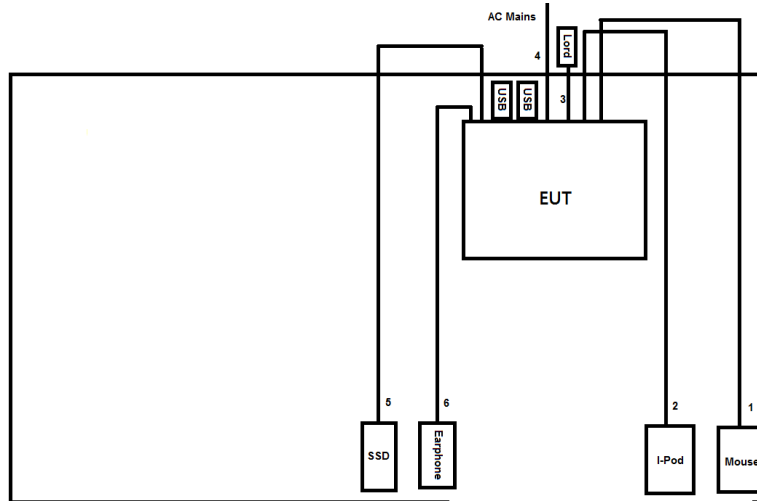
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	iPod	APPLE	A1199	-	-
2	30-pin to USB Original cable	APPLE	MA591GC	-	-
3	Mouse(USB)	Lenovo	MOGOUO	-	-
4	earphone	APPLE	MD827FE/A	-	-
5	Portable SSD(3.1)	TRANSCEND	TS240GESD240C	-	-
6	USB 3.0 Flash	SandDisk	SDDDC-128G-G36	-	-
7	USB 3.0 Flash	SandDisk	SDDDC-128G-G36	-	-
8	load	Sporton	Sporton	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	iPod	APPLE	A1199	-	-
2	30-pin to USB Original cable	APPLE	MA591GC	-	-
3	Mouse(USB)	Lenovo	MOGOUO	-	-
4	earphone	APPLE	MD827FE/A	-	-
5	Portable SSD(3.1)	TRANSCEND	TS240GESD240C	-	-
6	USB 3.0 Flash	SandDisk	SDDDC-128G-G36	-	-
7	USB 3.0 Flash	SandDisk	SDDDC-128G-G36	-	-
8	load	Sporton	Sporton	-	-

2.5 Test Setup Diagram

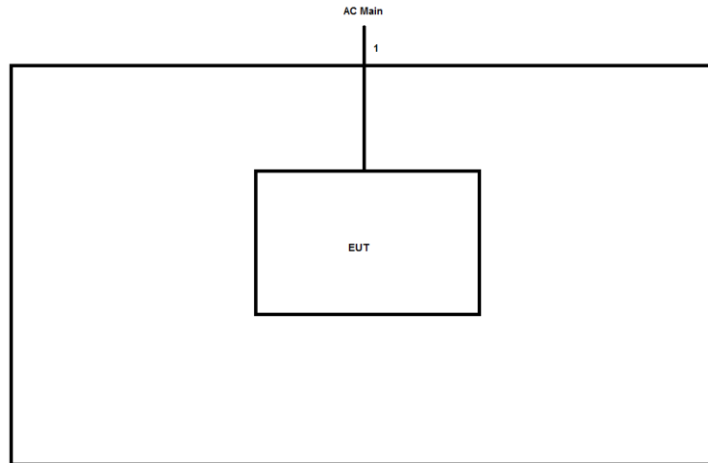


Test Setup Diagram – AC Line Conducted Emission Test (Full port)



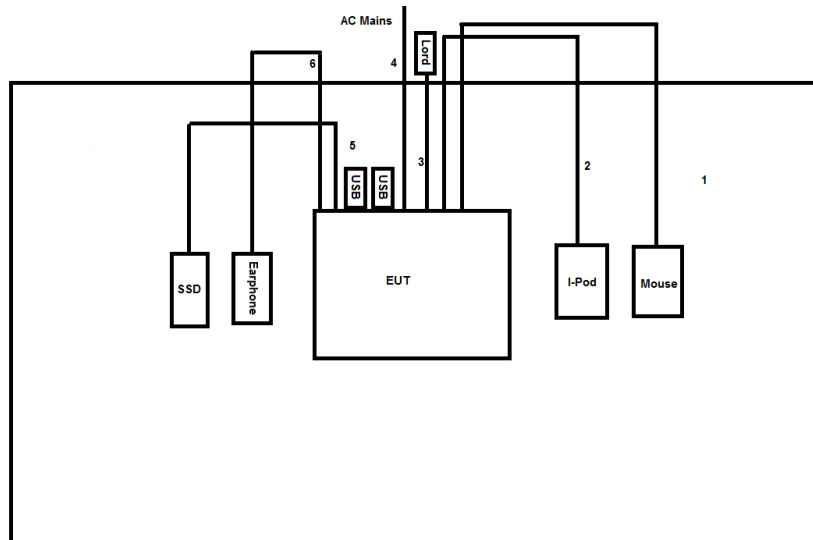
Item	Connection	Shielded	Length(m)	Remark
1	USB cable	No	1.0	-
2	30-pin to USB Original Cable	No	1.0	-
3	RJ45 cable	No	1.0	-
4	AC Power cable	No	1.8	-
5	USB cable	No	1.0	-
6	Audio cable	No	1.25	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test(Full port)



Item	Connection	Shielded	Length(m)	Remark
1	USB cable	No	1.0	-
2	30-pin to USB Original Cable	No	1.0	-
3	RJ45 cable	No	1.0	-
4	AC Power cable	No	1.8	-
5	USB cable	No	1.0	-
6	Audio cable	No	1.25	-

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

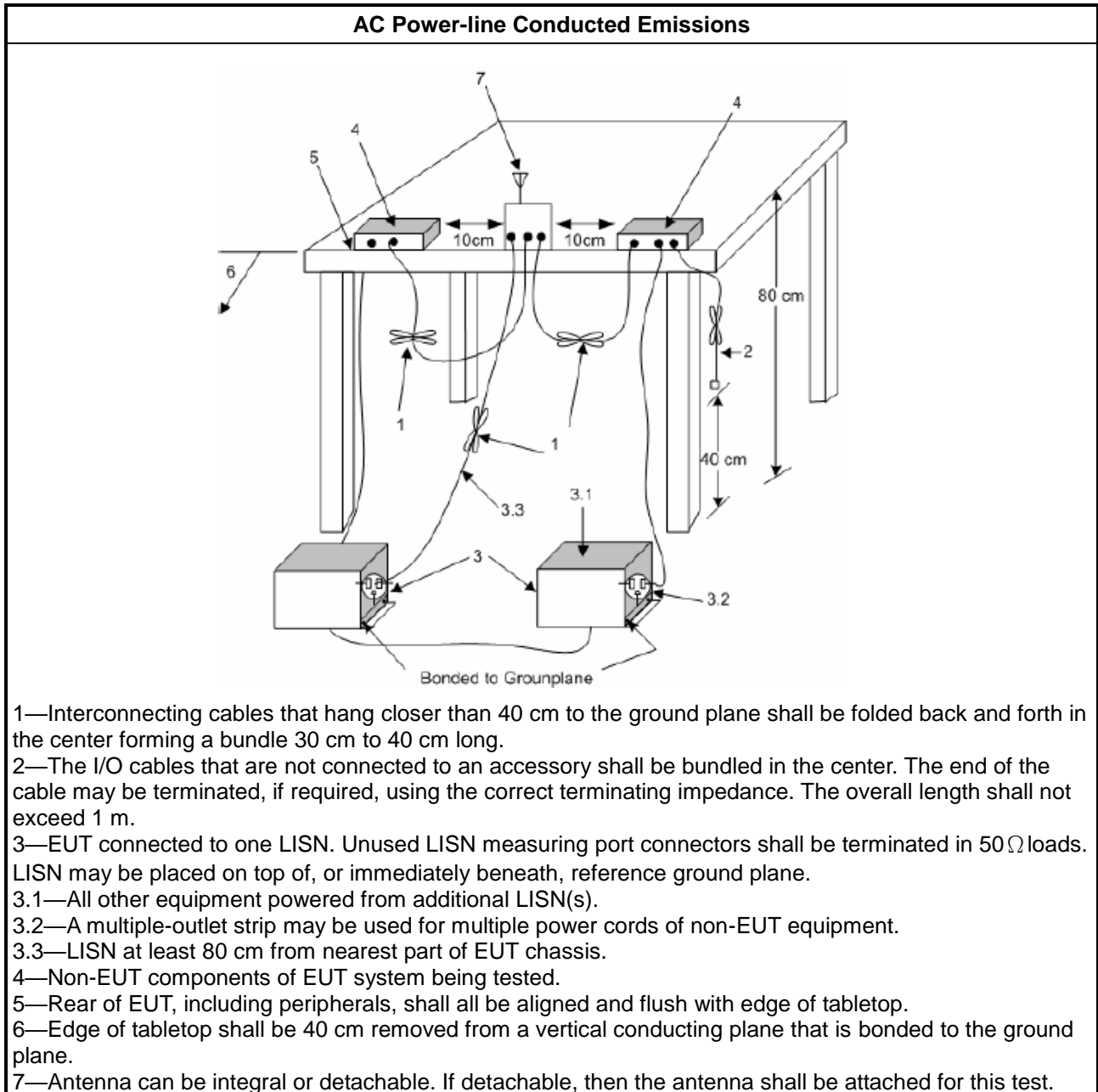
Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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	

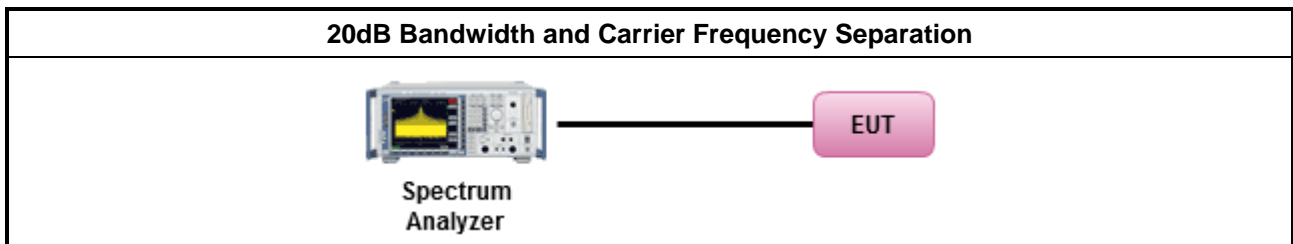
3.2.2 Measuring Instruments

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	

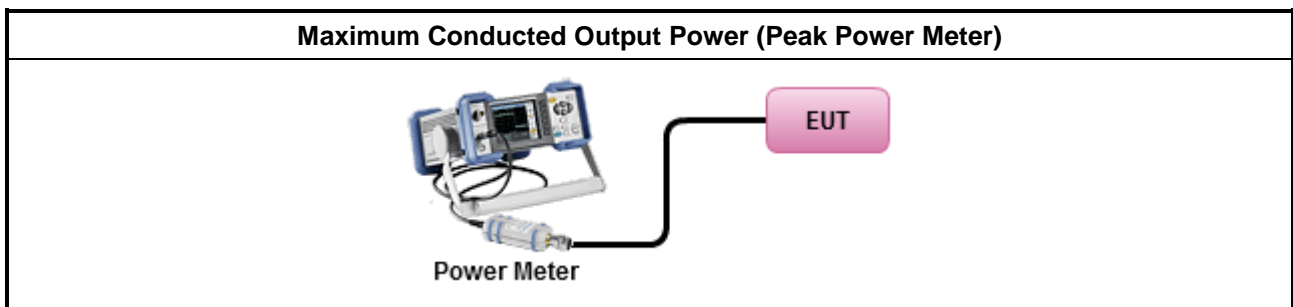
3.3.2 Measuring Instruments

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

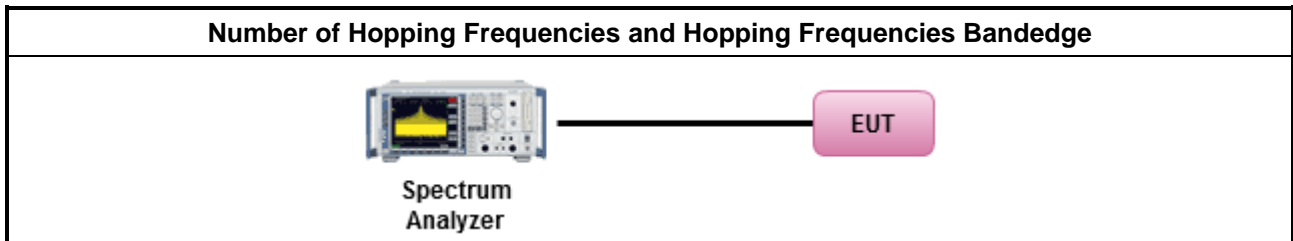
3.4.3 Measuring Instruments

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	

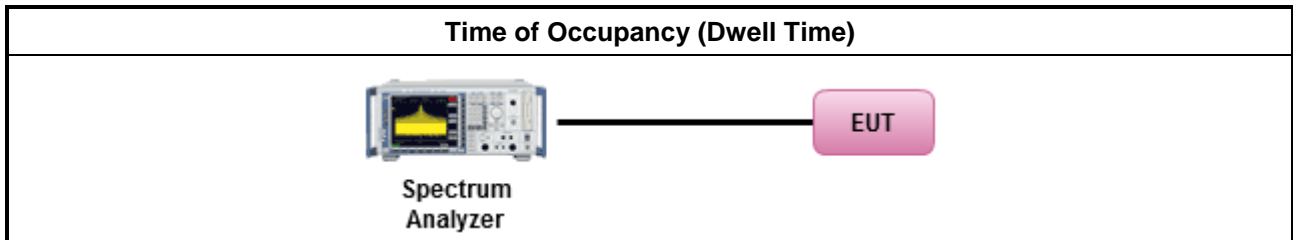
3.5.2 Measuring Instruments

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.	

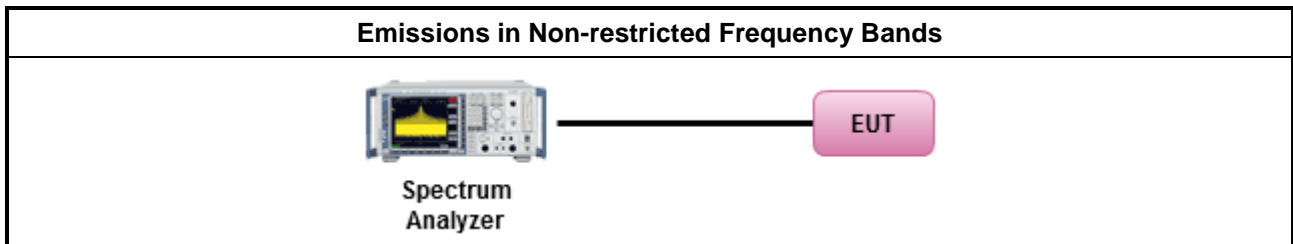
3.6.2 Measuring Instruments

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 Duty Cycle Correction Factor Calculation

- Channel hop rate = 800 hops/second (AFH Mode)
- Adjusted channel hop rate for DH5 mode = 133.33 hops/second
- Time per channel hop = 1 / 133.33 hops/second = 7.50 ms
- Time to cycle through all channels = 7.50 x 20 channels = 150 ms
- Number of times transmitter hits on one channel = 100 ms / 150 ms = 1time(s)
- Worst case dwell time = 7.5 ms
- Duty cycle correction factor = $20\log_{10} (7.5\text{ms}/100\text{ms}) = -22.5 \text{ dB}$

3.7.4 Test Procedures

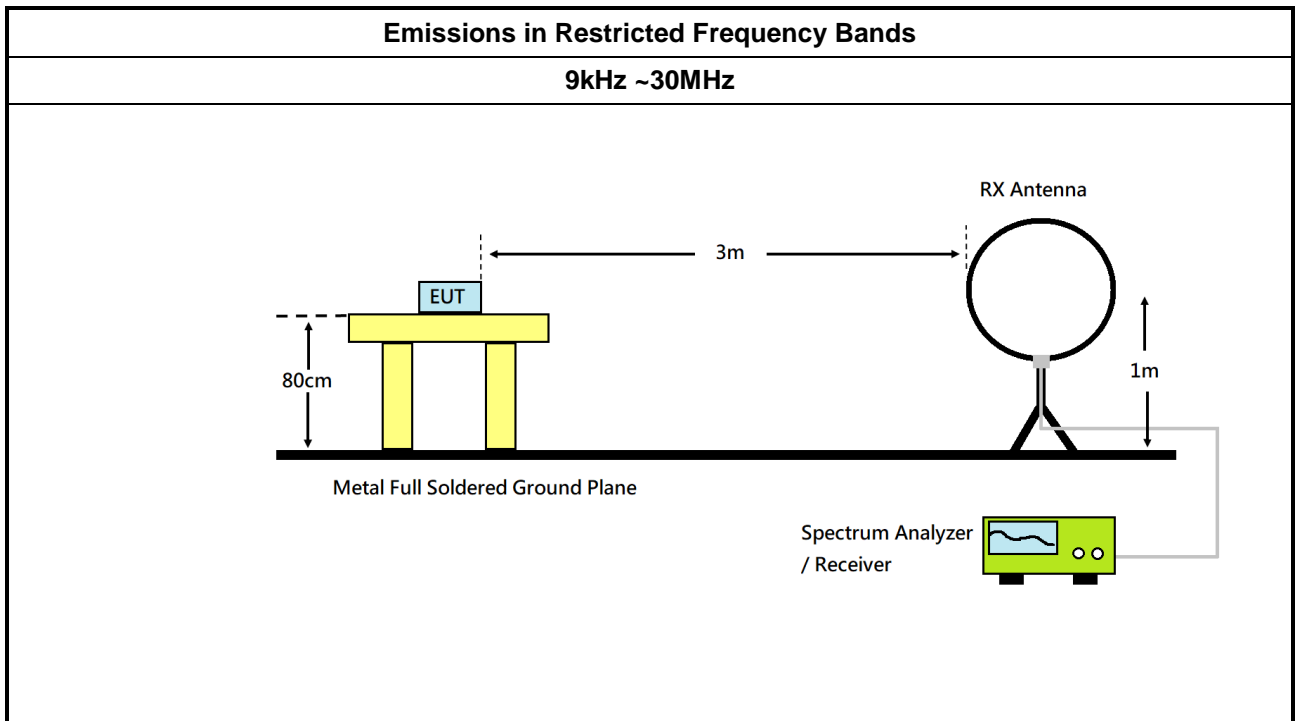
Test Method	
▪	The average emission levels shall be measured in [hopping duty factor].
▪	Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted emissions shall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

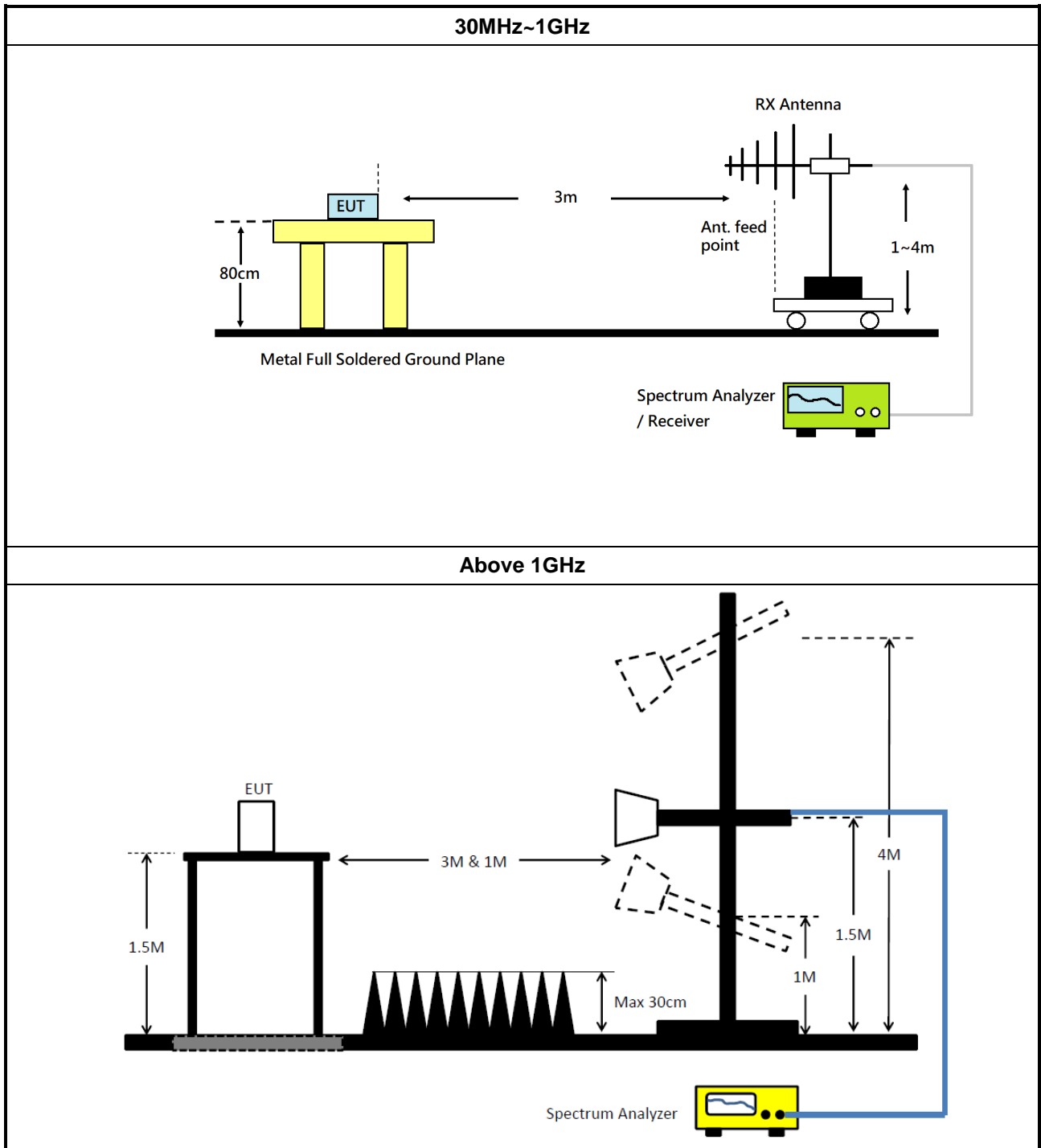
3.7.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.7.6 Test Setup





3.7.7 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.

3.7.8 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	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	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.8.2	-	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
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	03CH03-HY	30MHz~1GHz 3m	03/Aug/2021	02/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	03/Aug/2021	02/Aug/2022
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	12/Oct/2021	11/Oct/2022
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	08/Apr/2022	07/Apr/2023
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	17/Oct/2021	16/Oct/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	14/Sep/2021	13/Sep/2022
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	16/Jun/2021	15/Jun/2022
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	13/Jun/2022	12/Jun/2023
RF Cable-R03m	Jye Bao	RG142	MY37335/4+CB021-1+CB021-2	30MHz~1GHz	22/Mar/2022	21/Mar/2023
RF CABLE 5+6m	HUBER+SUHNER	SUOFLEX 104	SN MY38596/4+SN 804300/4	1GHz~40GHz	28/Jul/2021	27/Jul/2022
Microwave Preamplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	15/Jul/2021	14/Jul/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Prempplier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	02/Jun/2021	01/Jun/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	13/May/2022	12/May/2023
SENSE-15247_FS	Sporton	v5.10.7.14	N/A	N/A	N/A	N/A



Summary

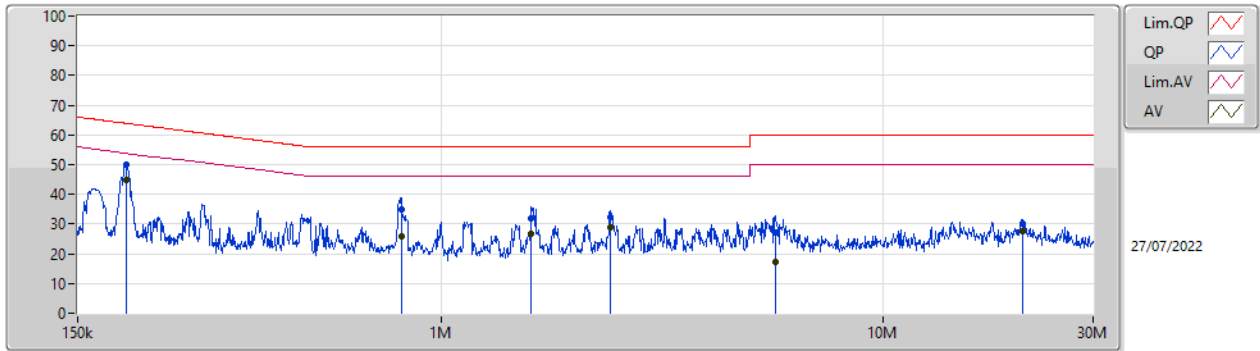
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	192.892k	44.86	53.92	-9.06	Line
Mode 2	Pass	AV	192.892k	44.86	53.92	-9.06	Line



Mode Configure

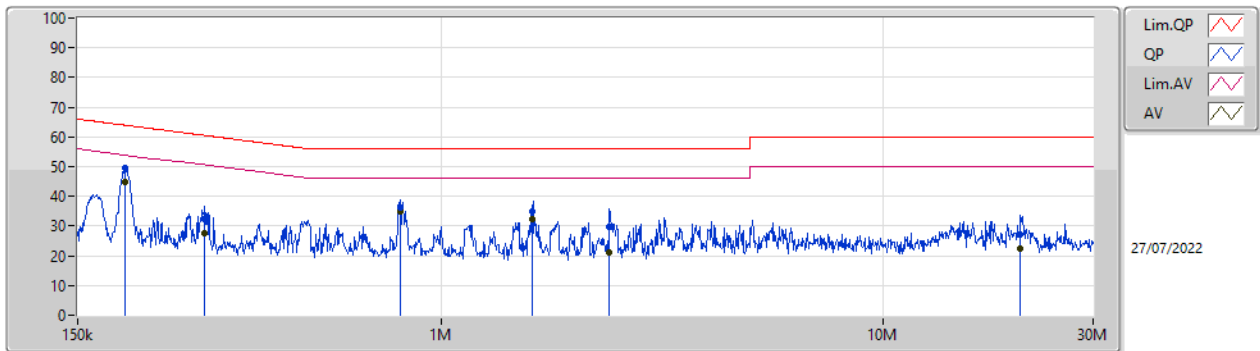
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	192.892k	49.82	63.92	-14.10	Line	-
Mode 1	Pass	AV	192.892k	44.86	53.92	-9.06	Line	-
Mode 1	Pass	QP	811.805k	34.81	56.00	-21.19	Line	-
Mode 1	Pass	AV	811.805k	25.69	46.00	-20.31	Line	-
Mode 1	Pass	QP	1.6M	31.74	56.00	-24.26	Line	-
Mode 1	Pass	AV	1.6M	26.81	46.00	-19.19	Line	-
Mode 1	Pass	QP	2.414M	32.52	56.00	-23.48	Line	-
Mode 1	Pass	AV	2.414M	28.97	46.00	-17.03	Line	-
Mode 1	Pass	QP	5.718M	26.98	60.00	-33.02	Line	-
Mode 1	Pass	AV	5.718M	17.36	50.00	-32.64	Line	-
Mode 1	Pass	QP	20.76M	30.25	60.00	-29.75	Line	-
Mode 1	Pass	AV	20.76M	27.64	50.00	-22.36	Line	-
Mode 1	Pass	QP	192.124k	49.38	63.93	-14.55	Neutral	-
Mode 1	Pass	AV	192.124k	44.71	53.93	-9.22	Neutral	-
Mode 1	Pass	QP	290.996k	32.51	60.49	-27.98	Neutral	-
Mode 1	Pass	AV	290.996k	27.44	50.49	-23.05	Neutral	-
Mode 1	Pass	QP	805.349k	36.35	56.00	-19.65	Neutral	-
Mode 1	Pass	AV	805.349k	35.03	46.00	-10.97	Neutral	-
Mode 1	Pass	QP	1.613M	34.85	56.00	-21.15	Neutral	-
Mode 1	Pass	AV	1.613M	32.46	46.00	-13.54	Neutral	-
Mode 1	Pass	QP	2.404M	29.83	56.00	-26.17	Neutral	-
Mode 1	Pass	AV	2.404M	20.95	46.00	-25.05	Neutral	-
Mode 1	Pass	QP	20.513M	27.24	60.00	-32.76	Neutral	-
Mode 1	Pass	AV	20.513M	22.56	50.00	-27.44	Neutral	-
Mode 2	Pass	QP	192.892k	49.80	63.92	-14.12	Line	-
Mode 2	Pass	AV	192.892k	44.86	53.92	-9.06	Line	-
Mode 2	Pass	QP	289.837k	34.57	60.53	-25.96	Line	-
Mode 2	Pass	AV	289.837k	28.97	50.53	-21.56	Line	-
Mode 2	Pass	QP	805.349k	36.26	56.00	-19.74	Line	-
Mode 2	Pass	AV	805.349k	34.91	46.00	-11.09	Line	-
Mode 2	Pass	QP	1.613M	34.16	56.00	-21.84	Line	-
Mode 2	Pass	AV	1.613M	31.77	46.00	-14.23	Line	-
Mode 2	Pass	QP	2.433M	30.61	56.00	-25.39	Line	-
Mode 2	Pass	AV	2.433M	18.74	46.00	-27.26	Line	-
Mode 2	Pass	QP	20.76M	30.48	60.00	-29.52	Line	-
Mode 2	Pass	AV	20.76M	27.88	50.00	-22.12	Line	-
Mode 2	Pass	QP	192.892k	49.40	63.92	-14.52	Neutral	-
Mode 2	Pass	AV	192.892k	44.75	53.92	-9.17	Neutral	-
Mode 2	Pass	QP	288.682k	33.40	60.57	-27.17	Neutral	-
Mode 2	Pass	AV	288.682k	28.45	50.57	-22.12	Neutral	-
Mode 2	Pass	QP	808.571k	35.78	56.00	-20.22	Neutral	-
Mode 2	Pass	AV	808.571k	33.43	46.00	-12.57	Neutral	-
Mode 2	Pass	QP	1.6M	33.77	56.00	-22.23	Neutral	-
Mode 2	Pass	AV	1.6M	29.18	46.00	-16.82	Neutral	-
Mode 2	Pass	QP	2.404M	29.70	56.00	-26.30	Neutral	-
Mode 2	Pass	AV	2.404M	21.31	46.00	-24.69	Neutral	-
Mode 2	Pass	QP	20.76M	30.54	60.00	-29.46	Neutral	-
Mode 2	Pass	AV	20.76M	28.14	50.00	-21.86	Neutral	-

Conducted Emissions at Powerline_Mode 1



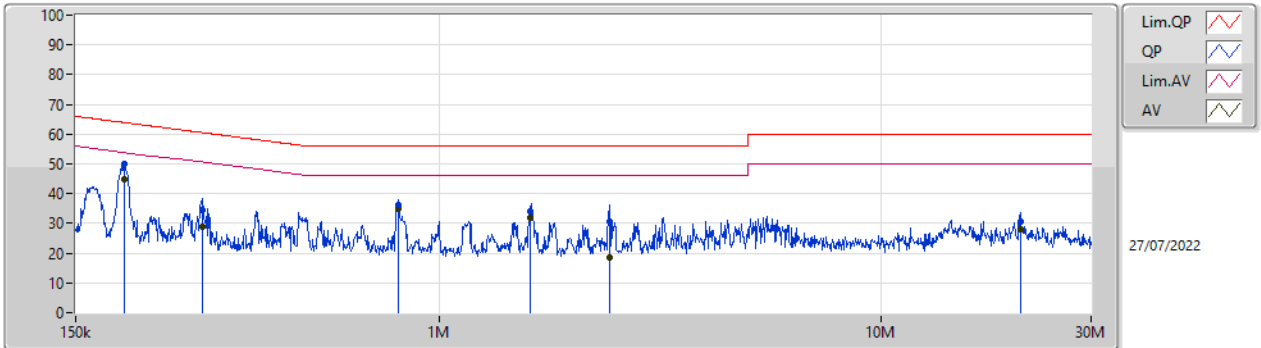
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	192.892k	49.82	63.92	-14.10	19.63	Line	-	30.19	9.69	0.03	9.91
AV	192.892k	44.86	53.92	-9.06	19.63	Line	-	25.23	9.69	0.03	9.91
QP	811.805k	34.81	56.00	-21.19	19.65	Line	-	15.16	9.68	0.05	9.92
AV	811.805k	25.69	46.00	-20.31	19.65	Line	-	6.04	9.68	0.05	9.92
QP	1.6M	31.74	56.00	-24.26	19.68	Line	-	12.06	9.69	0.07	9.92
AV	1.6M	26.81	46.00	-19.19	19.68	Line	-	7.13	9.69	0.07	9.92
QP	2.414M	32.52	56.00	-23.48	19.71	Line	-	12.81	9.70	0.09	9.92
AV	2.414M	28.97	46.00	-17.03	19.71	Line	-	9.26	9.70	0.09	9.92
QP	5.718M	26.98	60.00	-33.02	19.82	Line	-	7.16	9.75	0.15	9.92
AV	5.718M	17.36	50.00	-32.64	19.82	Line	-	-2.46	9.75	0.15	9.92
QP	20.76M	30.25	60.00	-29.75	20.00	Line	-	10.25	9.79	0.28	9.93
AV	20.76M	27.64	50.00	-22.36	20.00	Line	-	7.64	9.79	0.28	9.93

Conducted Emissions at Powerline_Mode 1



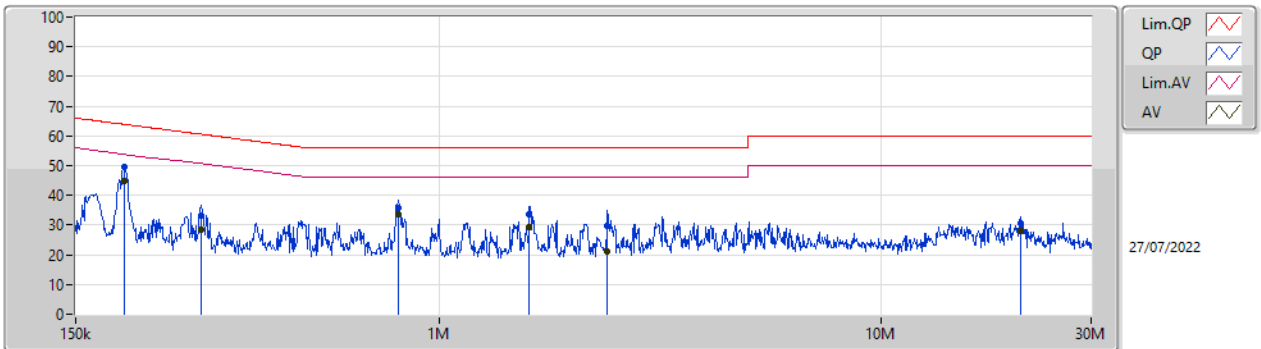
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	192.124k	49.38	63.93	-14.55	19.66	Neutral	-	29.72	9.72	0.03	9.91
AV	192.124k	44.71	53.93	-9.22	19.66	Neutral	-	25.05	9.72	0.03	9.91
QP	290.996k	32.51	60.49	-27.98	19.67	Neutral	-	12.84	9.72	0.04	9.91
AV	290.996k	27.44	50.49	-23.05	19.67	Neutral	-	7.77	9.72	0.04	9.91
QP	805.349k	36.35	56.00	-19.65	19.70	Neutral	-	16.65	9.73	0.05	9.92
AV	805.349k	35.03	46.00	-10.97	19.70	Neutral	-	15.33	9.73	0.05	9.92
QP	1.613M	34.85	56.00	-21.15	19.73	Neutral	-	15.12	9.74	0.07	9.92
AV	1.613M	32.46	46.00	-13.54	19.73	Neutral	-	12.73	9.74	0.07	9.92
QP	2.404M	29.83	56.00	-26.17	19.76	Neutral	-	10.07	9.75	0.09	9.92
AV	2.404M	20.95	46.00	-25.05	19.76	Neutral	-	1.19	9.75	0.09	9.92
QP	20.513M	27.24	60.00	-32.76	20.20	Neutral	-	7.04	10.00	0.27	9.93
AV	20.513M	22.56	50.00	-27.44	20.20	Neutral	-	2.36	10.00	0.27	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	192.892k	49.80	63.92	-14.12	19.63	Line	-	30.17	9.69	0.03	9.91
AV	192.892k	44.86	53.92	-9.06	19.63	Line	-	25.23	9.69	0.03	9.91
QP	289.837k	34.57	60.53	-25.96	19.63	Line	-	14.94	9.68	0.04	9.91
AV	289.837k	28.97	50.53	-21.56	19.63	Line	-	9.34	9.68	0.04	9.91
QP	805.349k	36.26	56.00	-19.74	19.65	Line	-	16.61	9.68	0.05	9.92
AV	805.349k	34.91	46.00	-11.09	19.65	Line	-	15.26	9.68	0.05	9.92
QP	1.613M	34.16	56.00	-21.84	19.68	Line	-	14.48	9.69	0.07	9.92
AV	1.613M	31.77	46.00	-14.23	19.68	Line	-	12.09	9.69	0.07	9.92
QP	2.433M	30.61	56.00	-25.39	19.71	Line	-	10.90	9.70	0.09	9.92
AV	2.433M	18.74	46.00	-27.26	19.71	Line	-	-0.97	9.70	0.09	9.92
QP	20.76M	30.48	60.00	-29.52	20.00	Line	-	10.48	9.79	0.28	9.93
AV	20.76M	27.88	50.00	-22.12	20.00	Line	-	7.88	9.79	0.28	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	192.892k	49.40	63.92	-14.52	19.66	Neutral	-	29.74	9.72	0.03	9.91
AV	192.892k	44.75	53.92	-9.17	19.66	Neutral	-	25.09	9.72	0.03	9.91
QP	288.682k	33.40	60.57	-27.17	19.67	Neutral	-	13.73	9.72	0.04	9.91
AV	288.682k	28.45	50.57	-22.12	19.67	Neutral	-	8.78	9.72	0.04	9.91
QP	808.571k	35.78	56.00	-20.22	19.70	Neutral	-	16.08	9.73	0.05	9.92
AV	808.571k	33.43	46.00	-12.57	19.70	Neutral	-	13.73	9.73	0.05	9.92
QP	1.6M	33.77	56.00	-22.23	19.73	Neutral	-	14.04	9.74	0.07	9.92
AV	1.6M	29.18	46.00	-16.82	19.73	Neutral	-	9.45	9.74	0.07	9.92
QP	2.404M	29.70	56.00	-26.30	19.76	Neutral	-	9.94	9.75	0.09	9.92
AV	2.404M	21.31	46.00	-24.69	19.76	Neutral	-	1.55	9.75	0.09	9.92
QP	20.76M	30.54	60.00	-29.46	20.21	Neutral	-	10.33	10.00	0.28	9.93
AV	20.76M	28.14	50.00	-21.86	20.21	Neutral	-	7.93	10.00	0.28	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)	933.75k	892.054k	892KF1D	928.75k	882.059k
BT-EDR(2Mbps)	1.426M	1.358M	1M36G1D	1.424M	1.357M
BT-EDR(3Mbps)	1.425M	1.361M	1M36G1D	1.416M	1.356M

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	928.75k	892.054k
2440MHz	Pass	Inf	930k	884.558k
2480MHz	Pass	Inf	933.75k	882.059k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.424M	1.358M
2440MHz	Pass	Inf	1.426M	1.357M
2480MHz	Pass	Inf	1.425M	1.357M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.419M	1.361M
2440MHz	Pass	Inf	1.425M	1.356M
2480MHz	Pass	Inf	1.416M	1.357M

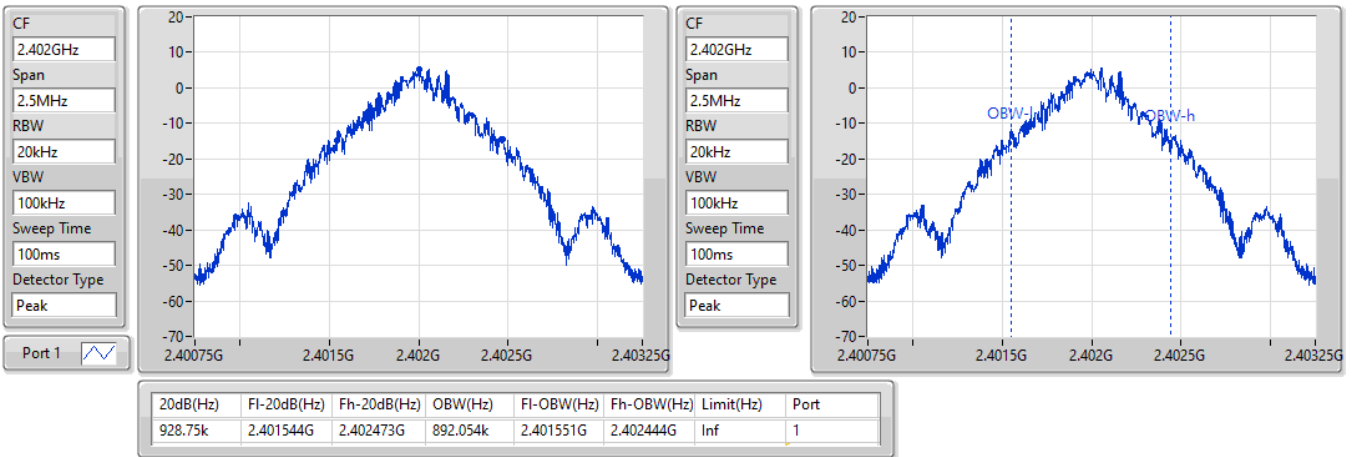
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-BR(1Mbps)

EBW-FS

2402MHz

21/04/2022

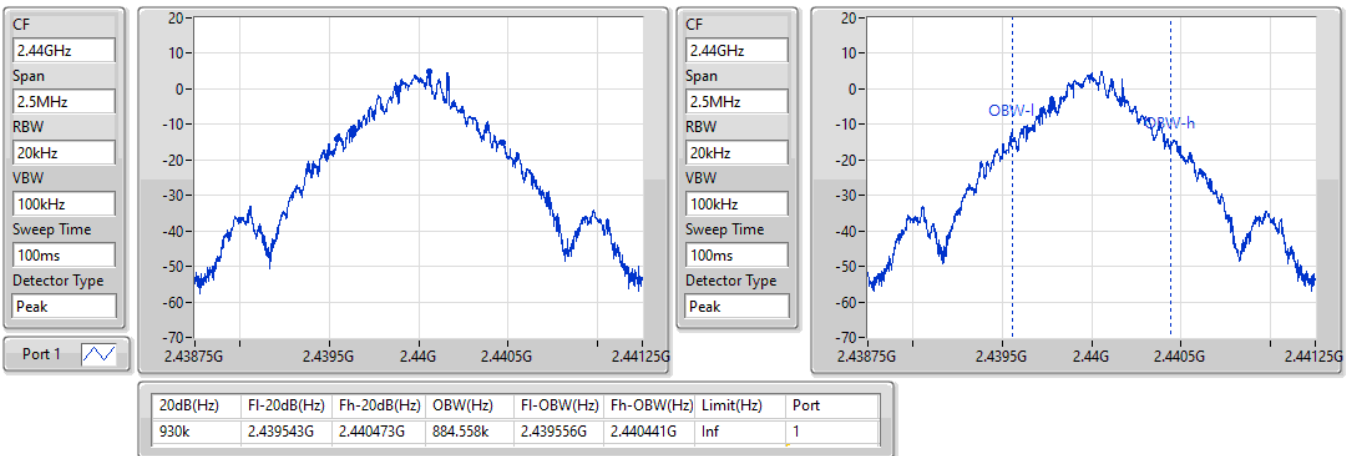


BT-BR(1Mbps)

EBW-FS

2440MHz

21/04/2022

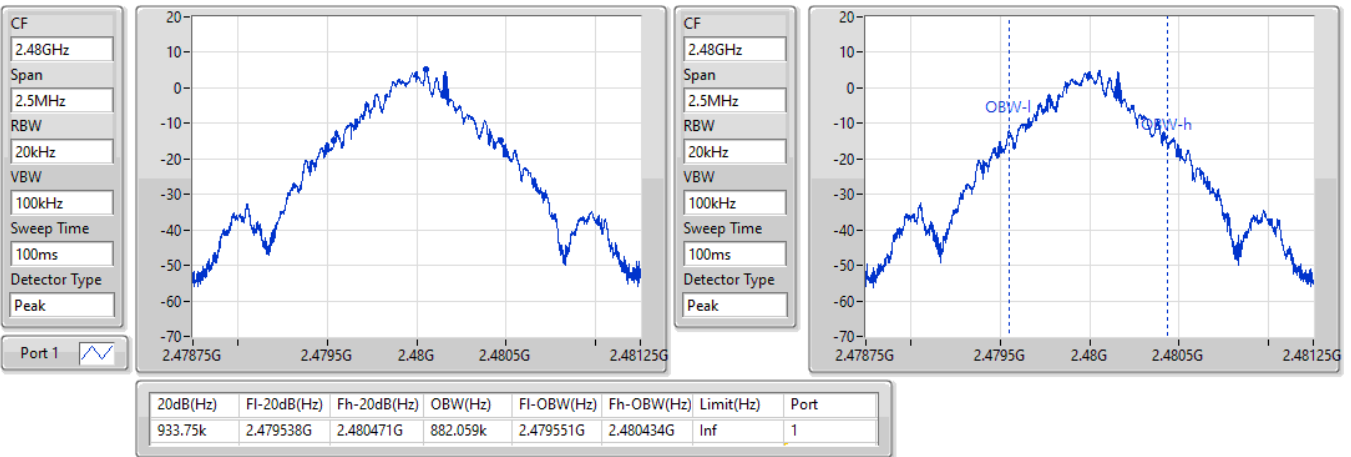


BT-BR(1Mbps)

EBW-FS

2480MHz

21/04/2022

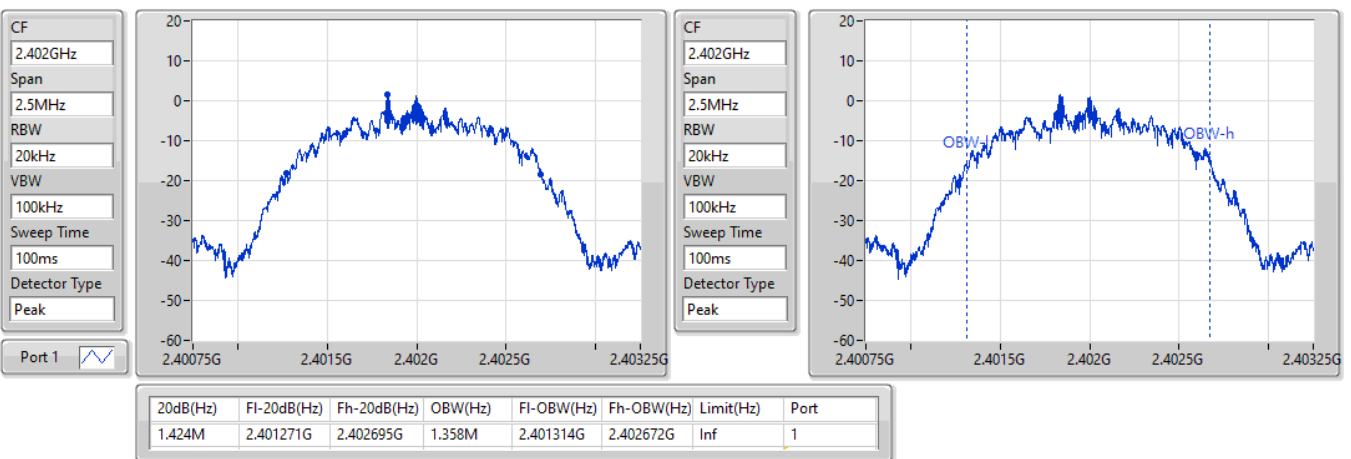


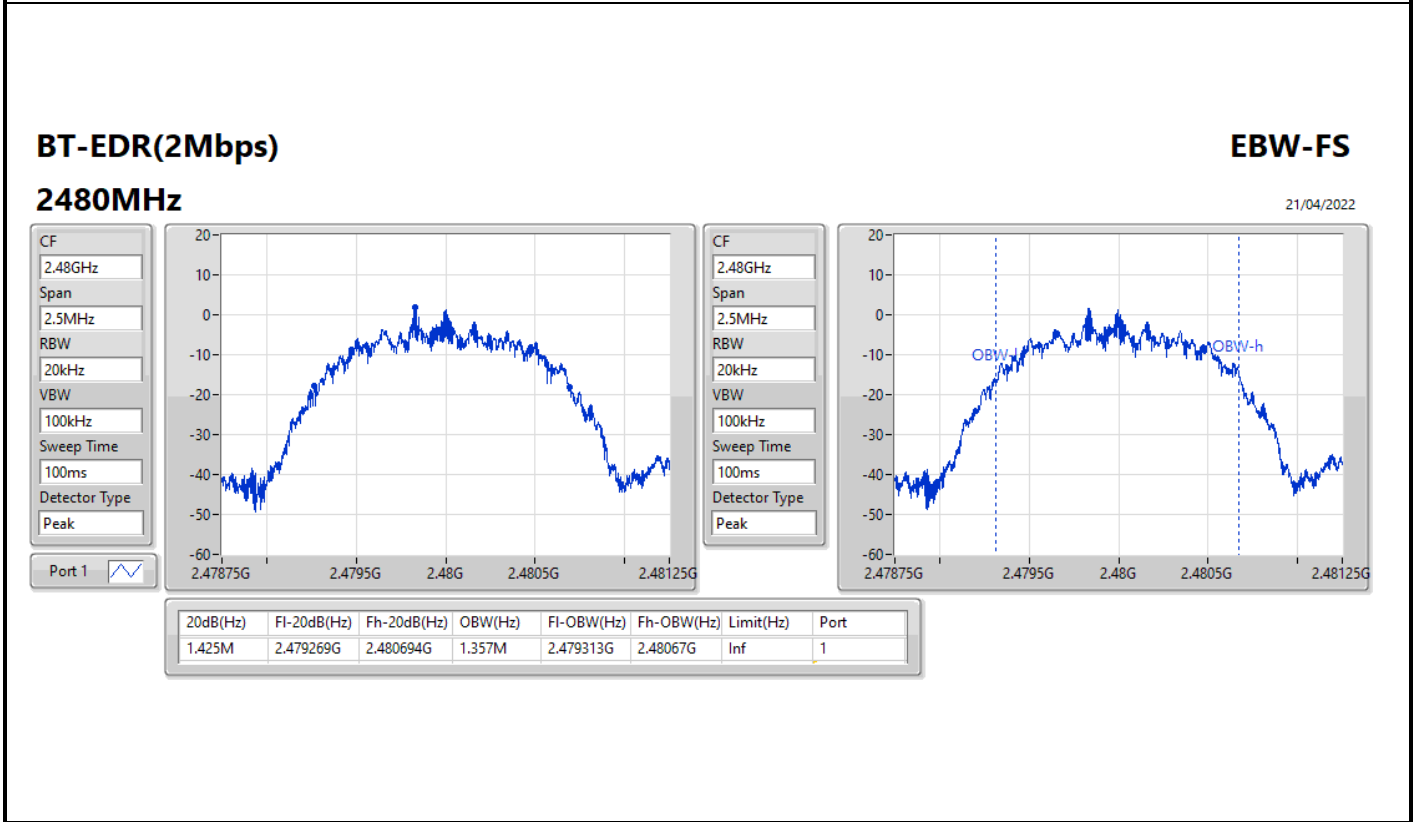
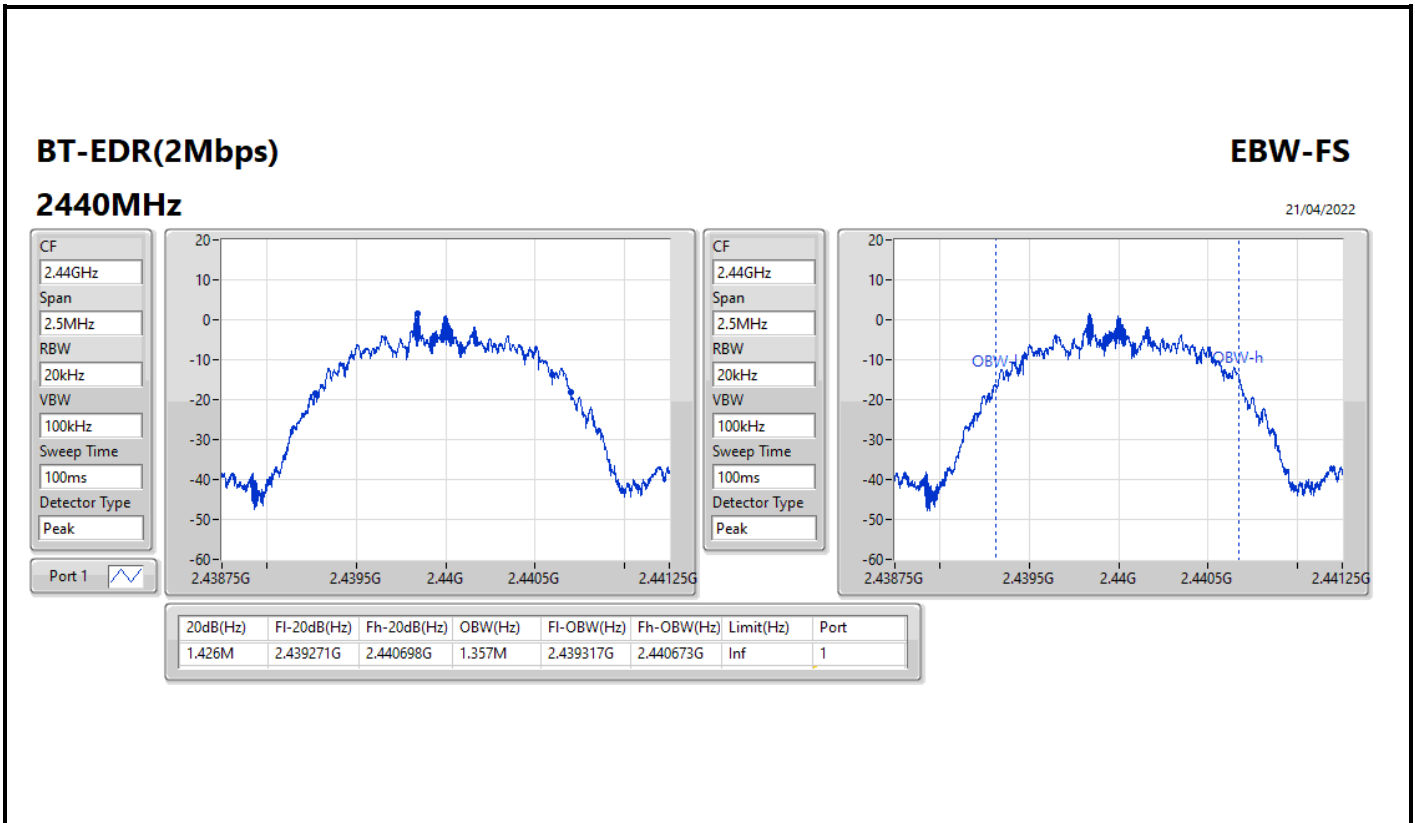
BT-EDR(2Mbps)

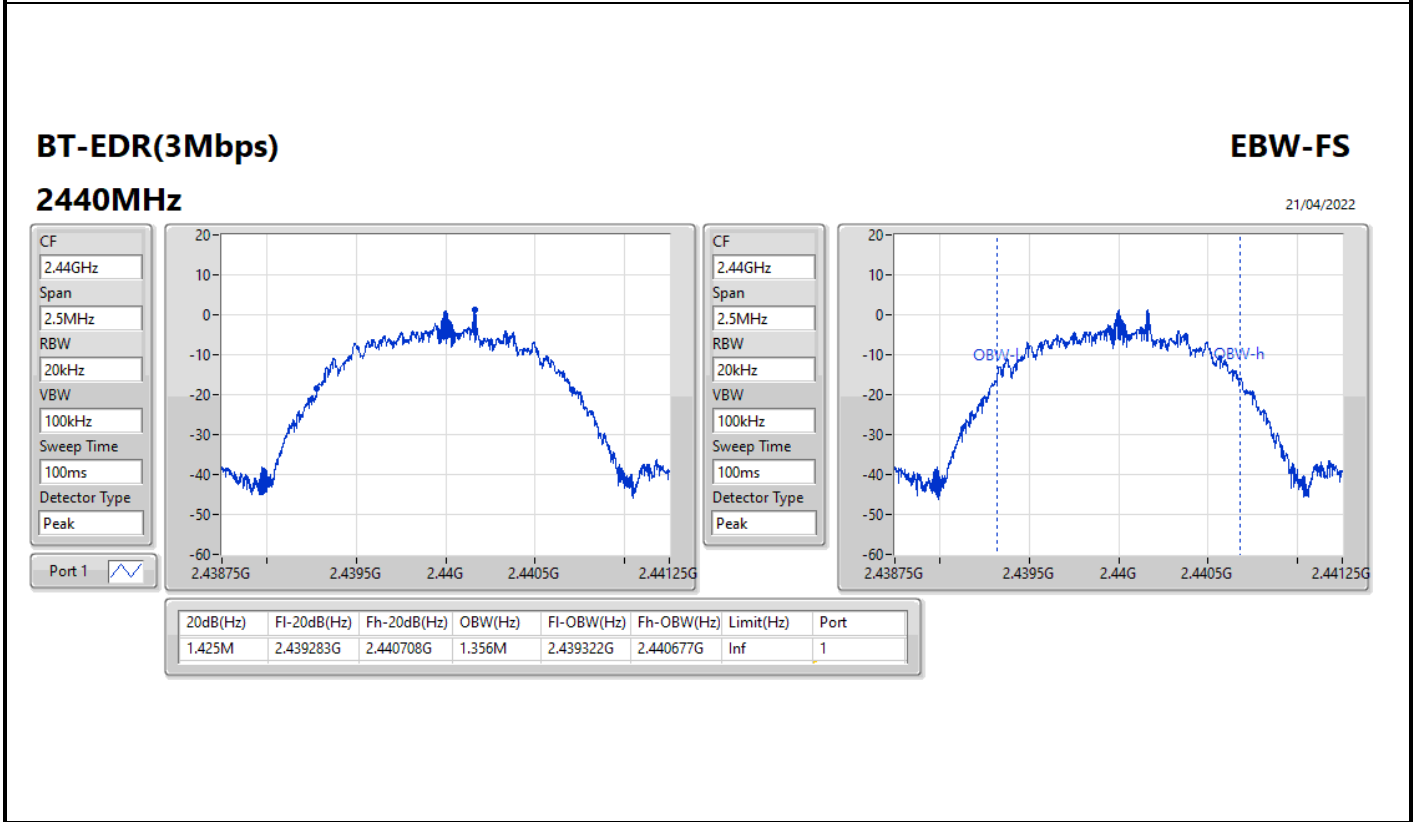
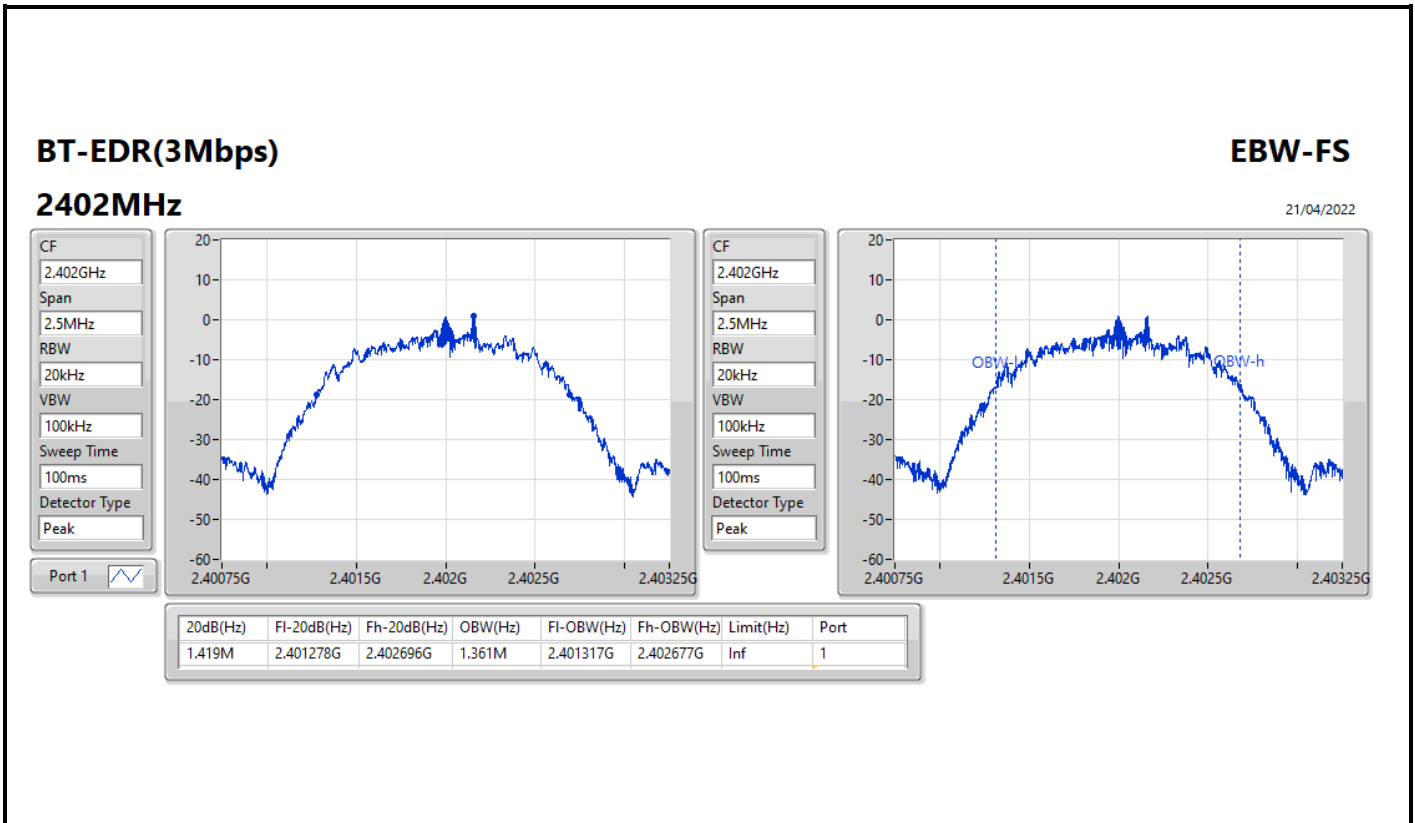
EBW-FS

2402MHz

21/04/2022





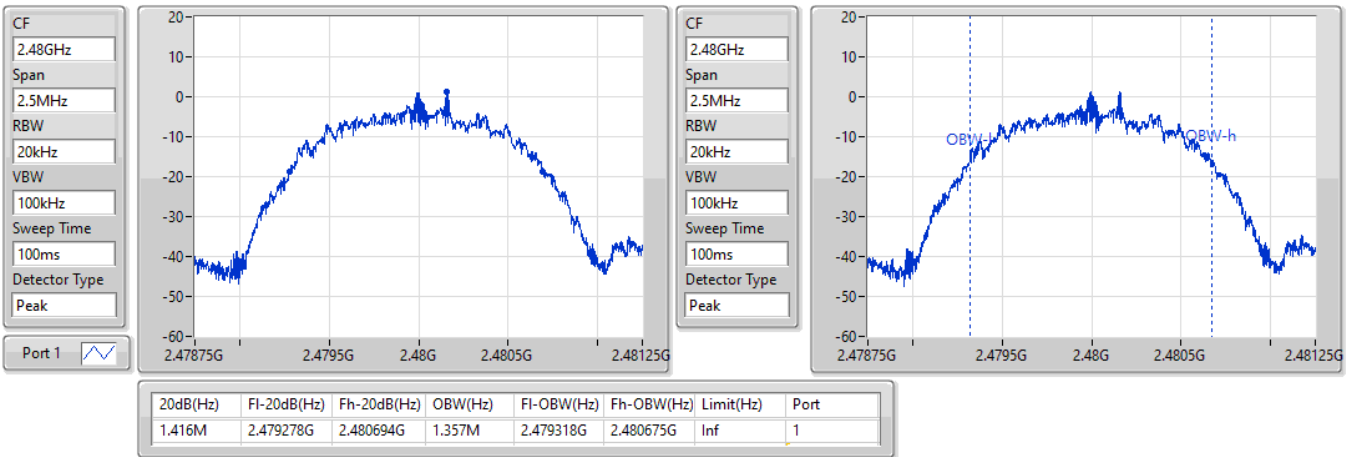


BT-EDR(3Mbps)

EBW-FS

2480MHz

21/04/2022





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0005M	999k
BT-EDR(2Mbps)	1.0035M	999k
BT-EDR(3Mbps)	1.0035M	996k



Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.401998G	2.402997G	999k	618.5475k
2440MHz	Pass	2.439995G	2.440995G	1.0005M	619.38k
2480MHz	Pass	2.478993G	2.479992G	999k	621.8775k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.40184G	2.402839G	999k	948.384k
2440MHz	Pass	2.439836G	2.440839G	1.0035M	949.716k
2480MHz	Pass	2.478833G	2.479833G	1.0005M	949.05k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.401993G	2.402989G	996k	945.054k
2440MHz	Pass	2.439996G	2.441G	1.0035M	949.05k
2480MHz	Pass	2.478996G	2.479994G	997.5k	943.056k

BT-BR(1Mbps)

Channel Separation-FS

2.402G/2.403GHz

21/04/2022



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.401998G	2.402997G	999k	618.5475k

BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

21/04/2022



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.439995G	2.440995G	1.0005M	619.38k


BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation-FS

21/04/2022



Port 1 

Ch Freq
2.48G/2.479G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

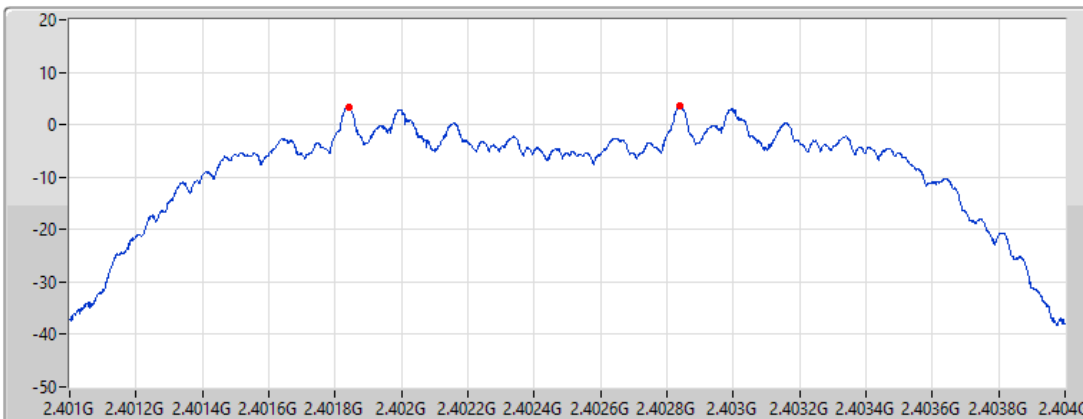
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.478993G	2.479992G	999k	621.8775k


BT-EDR(2Mbps)

2.402G/2.403GHz

Channel Separation-FS

21/04/2022



Port 1 

Ch Freq
2.402G/2.403G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

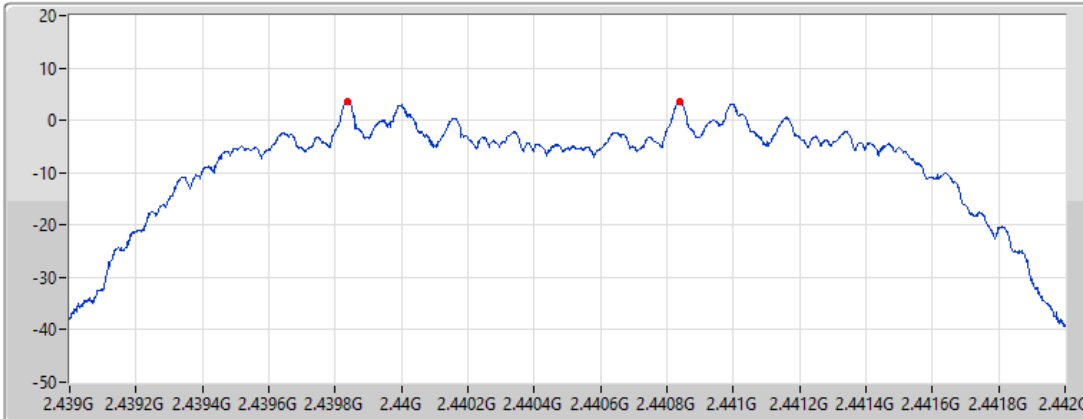
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.40184G	2.402839G	999k	948.384k


BT-EDR(2Mbps)

Channel Separation-FS

2.44G/2.441GHz

21/04/2022



Port 1 

Ch Freq
2.44G/2.441G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

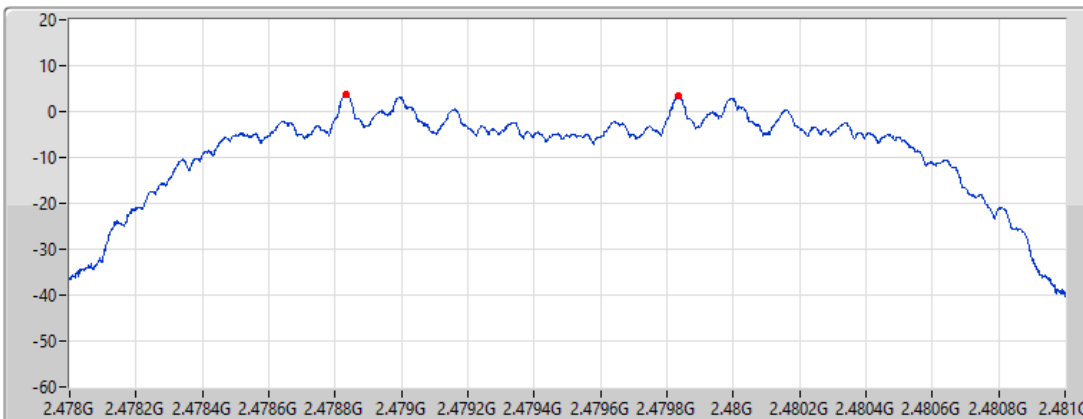
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.439836G	2.440839G	1.0035M	949.716k


BT-EDR(2Mbps)

Channel Separation-FS

2.48G/2.479GHz

21/04/2022



Port 1 

Ch Freq
2.48G/2.479G

Span
3MHz

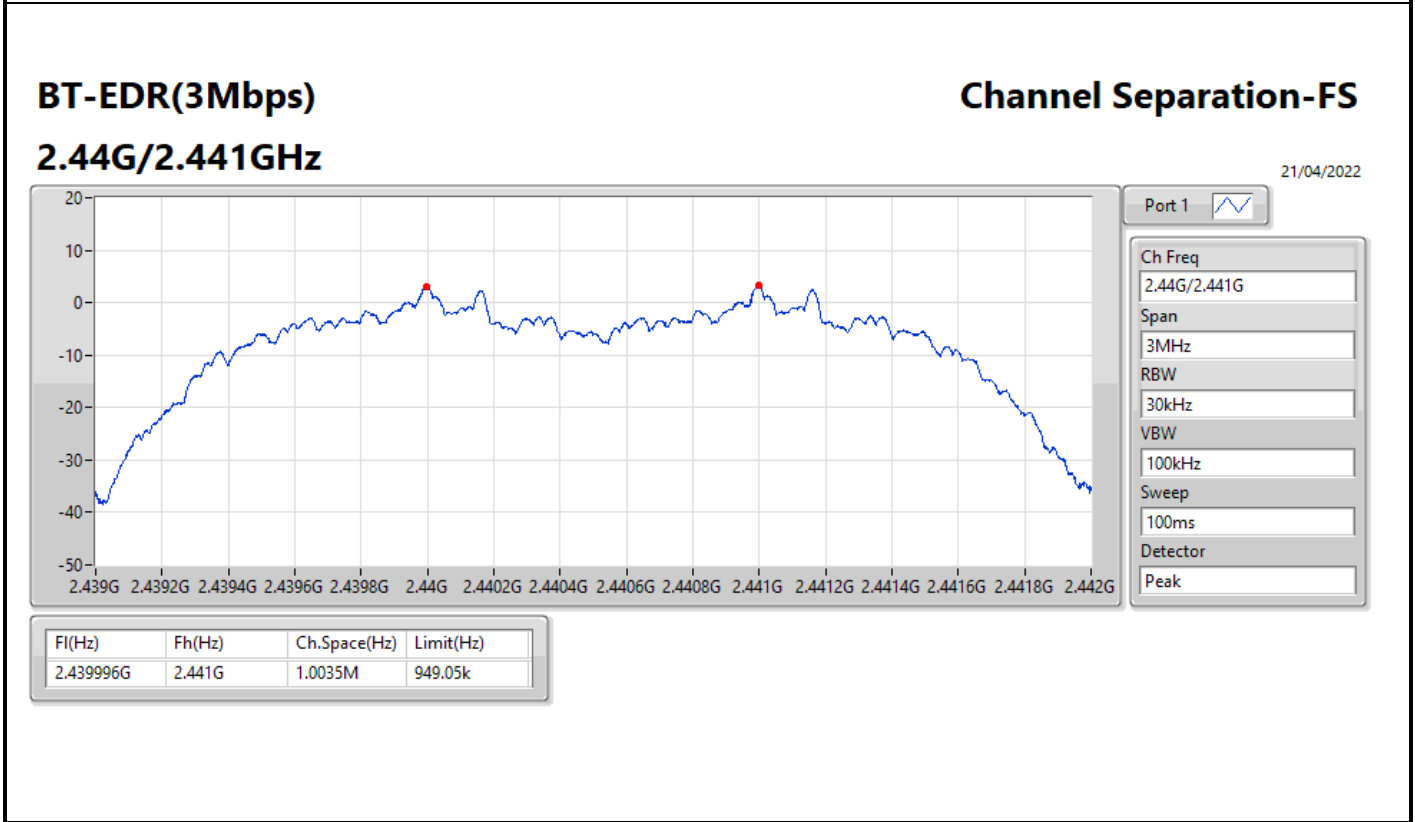
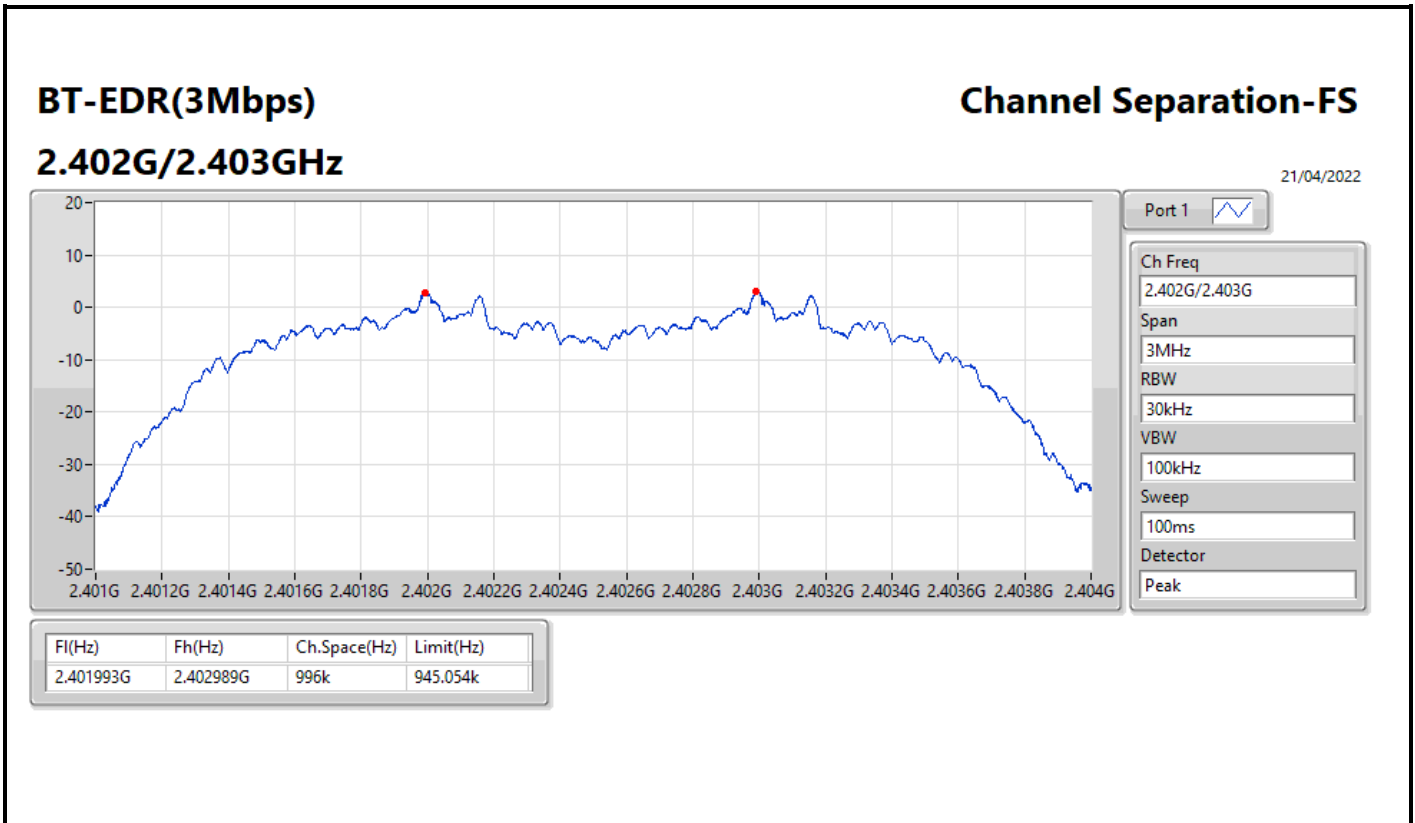
RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.478833G	2.479833G	1.0005M	949.05k

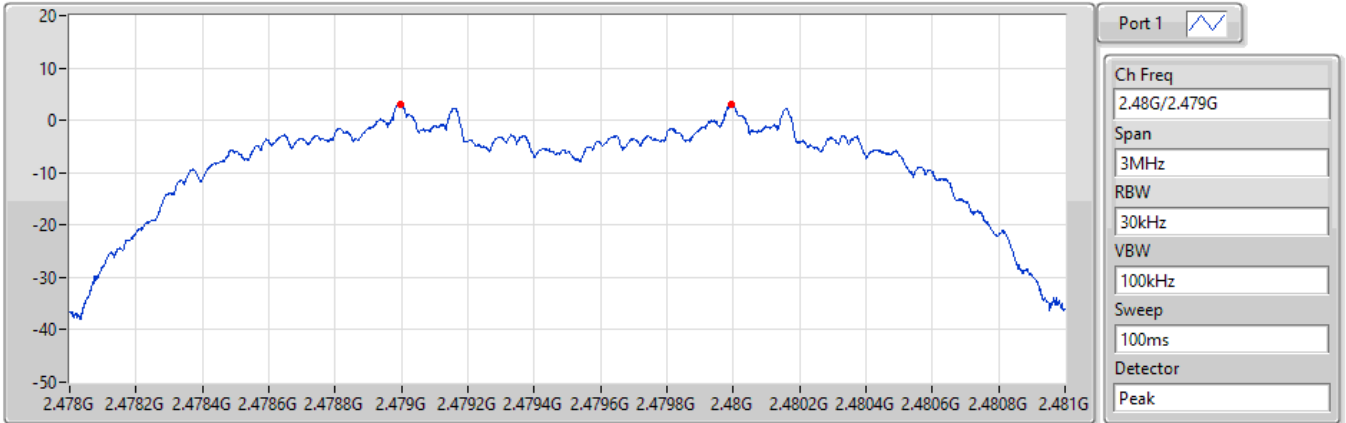


BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation-FS

21/04/2022



F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.478996G	2.479994G	997.5k	943.056k



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.44	0.00879
BT-EDR(2Mbps)	7.49	0.00561
BT-EDR(3Mbps)	7.59	0.00574



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.91	9.44	21.00
2440MHz	Pass	2.91	8.71	21.00
2480MHz	Pass	2.91	8.87	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.91	7.24	21.00
2440MHz	Pass	2.91	7.41	21.00
2480MHz	Pass	2.91	7.49	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.91	7.36	21.00
2440MHz	Pass	2.91	7.56	21.00
2480MHz	Pass	2.91	7.59	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.24	0.00839
BT-EDR(2Mbps)	5.41	0.00348
BT-EDR(3Mbps)	5.43	0.00349



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.91	9.24	21.00
2440MHz	Pass	2.91	8.58	21.00
2480MHz	Pass	2.91	8.74	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.91	5.24	21.00
2440MHz	Pass	2.91	5.28	21.00
2480MHz	Pass	2.91	5.41	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.91	5.21	21.00
2440MHz	Pass	2.91	5.30	21.00
2480MHz	Pass	2.91	5.43	21.00

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



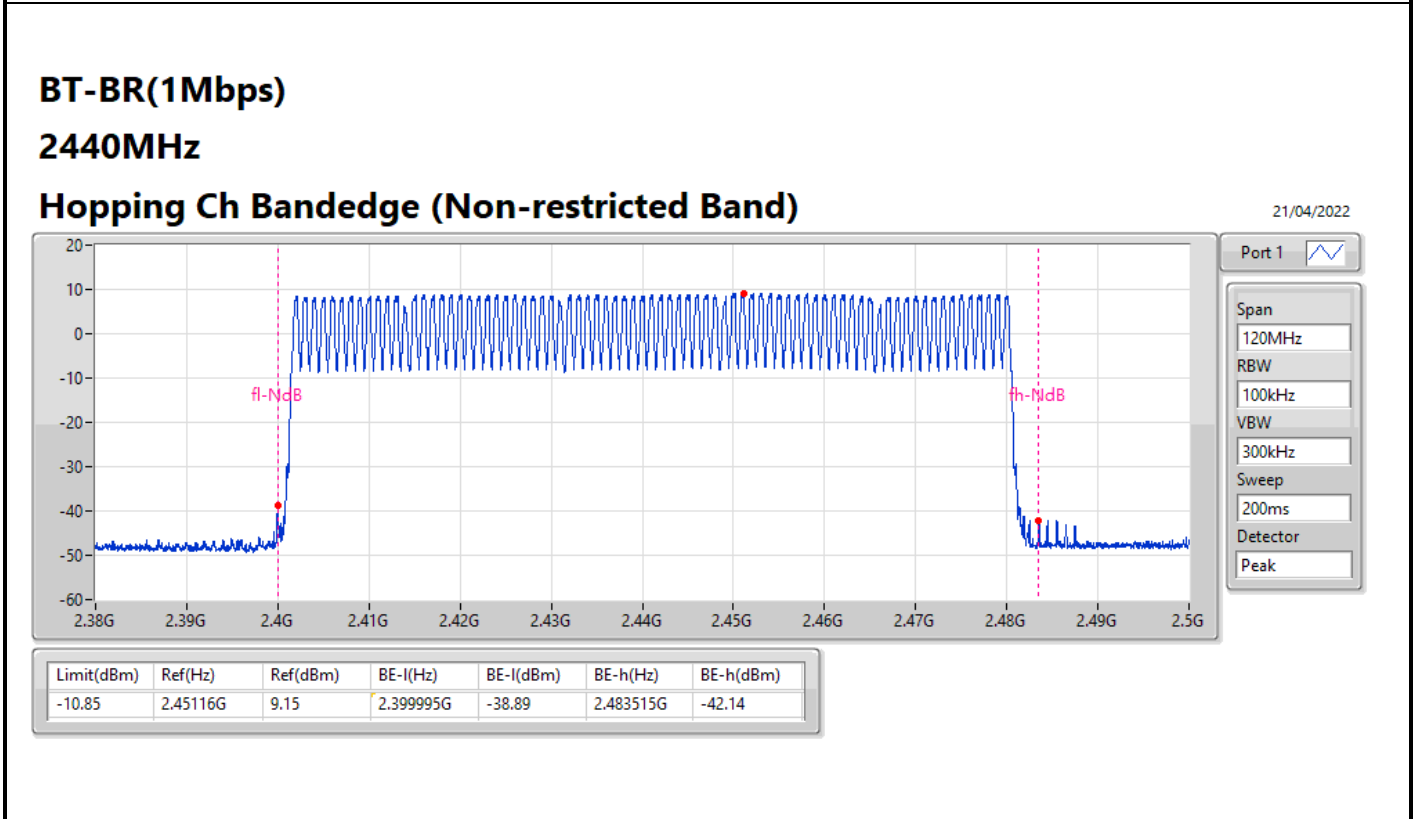
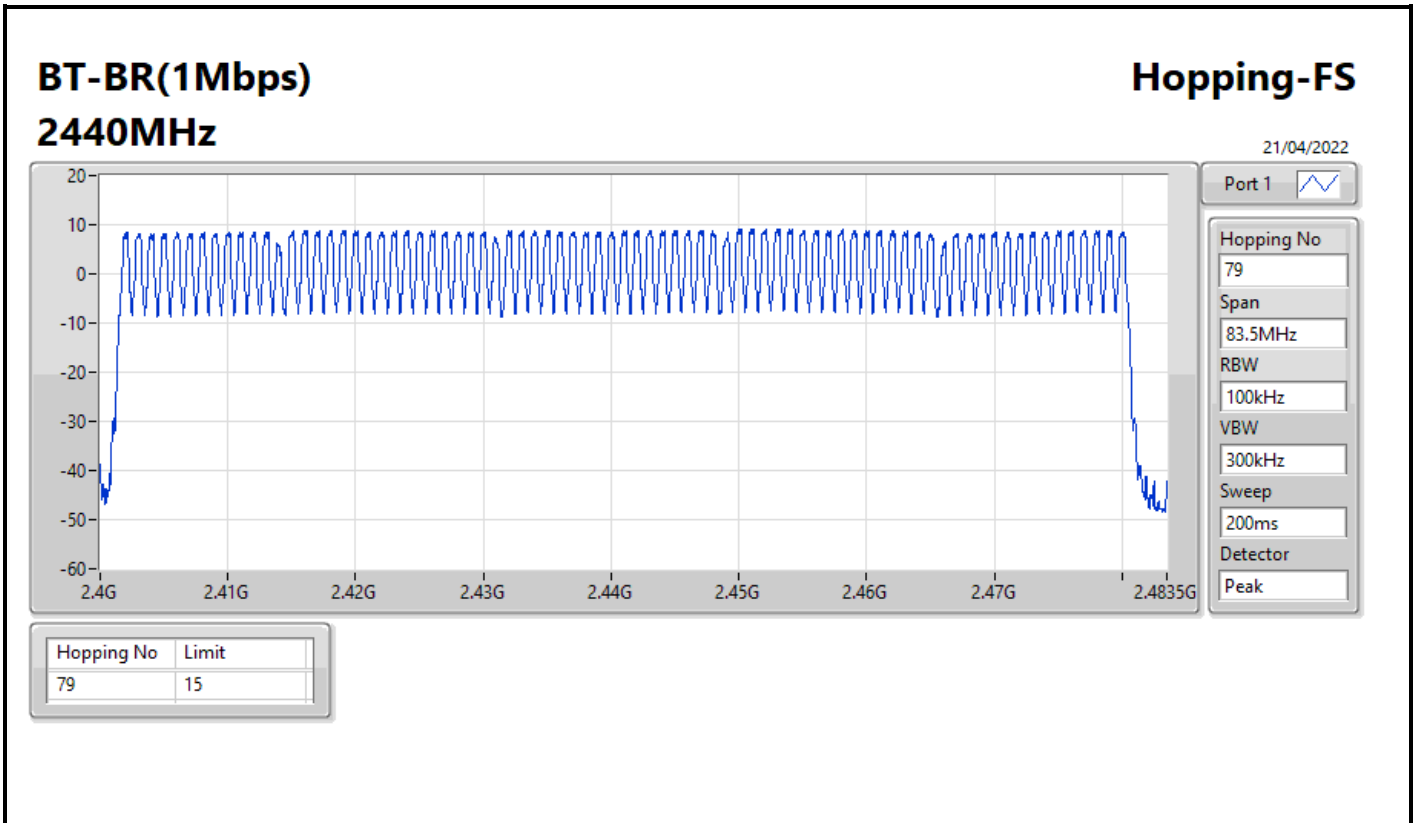
Summary

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



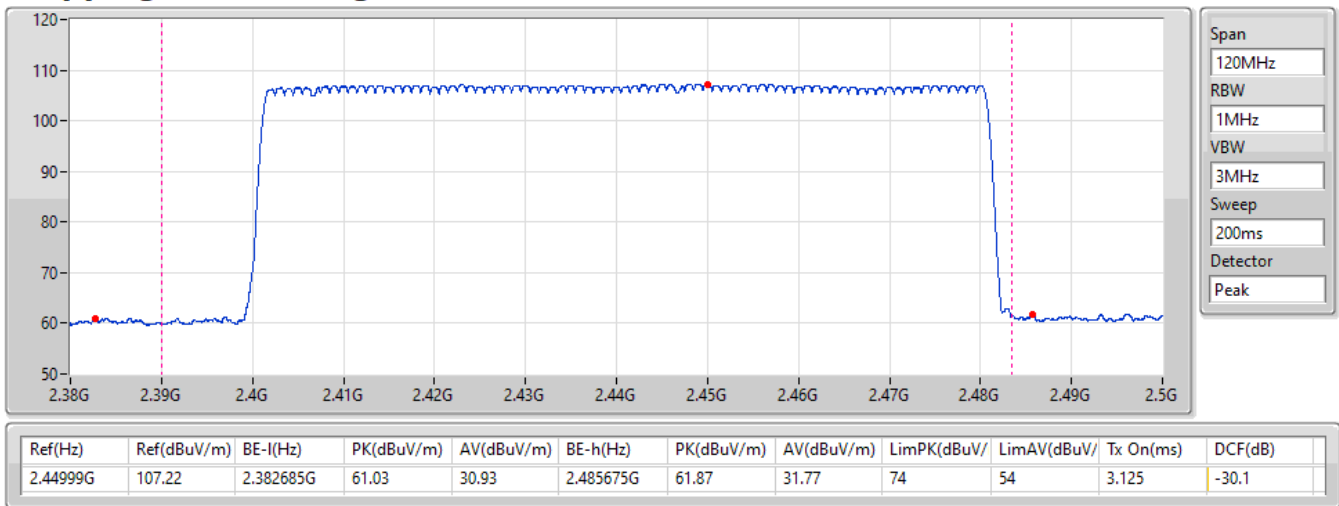
Result

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



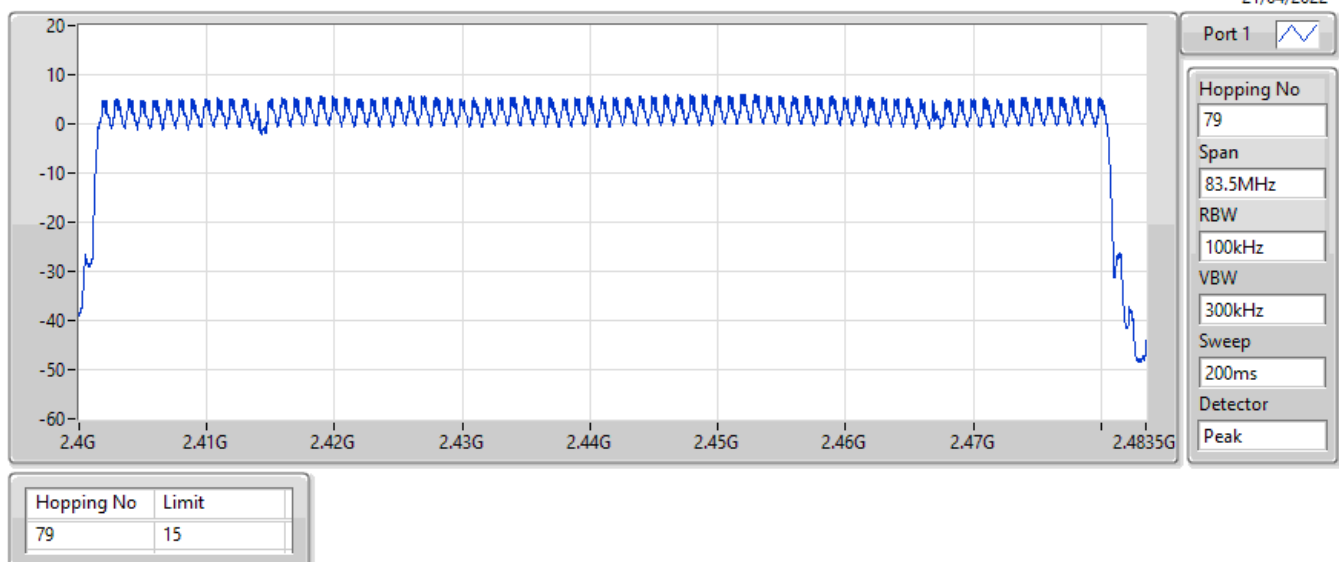
BT-BR(1Mbps)
2440MHz
Hopping Ch Bandedge (Restricted Band)

21/04/2022



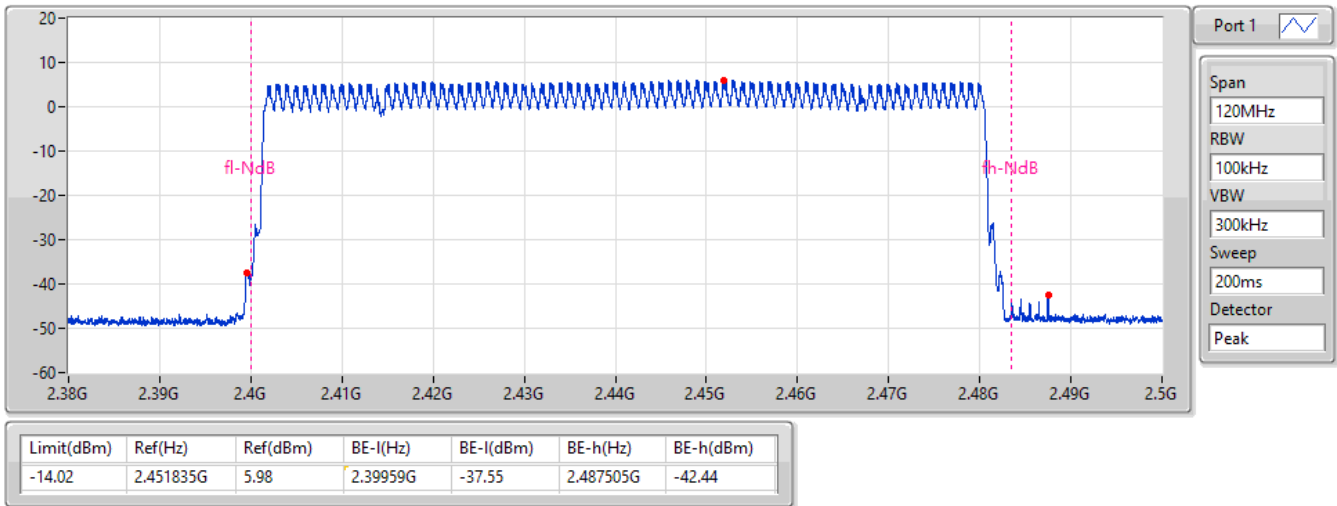
BT-EDR(2Mbps) **Hopping-FS**
2440MHz

21/04/2022



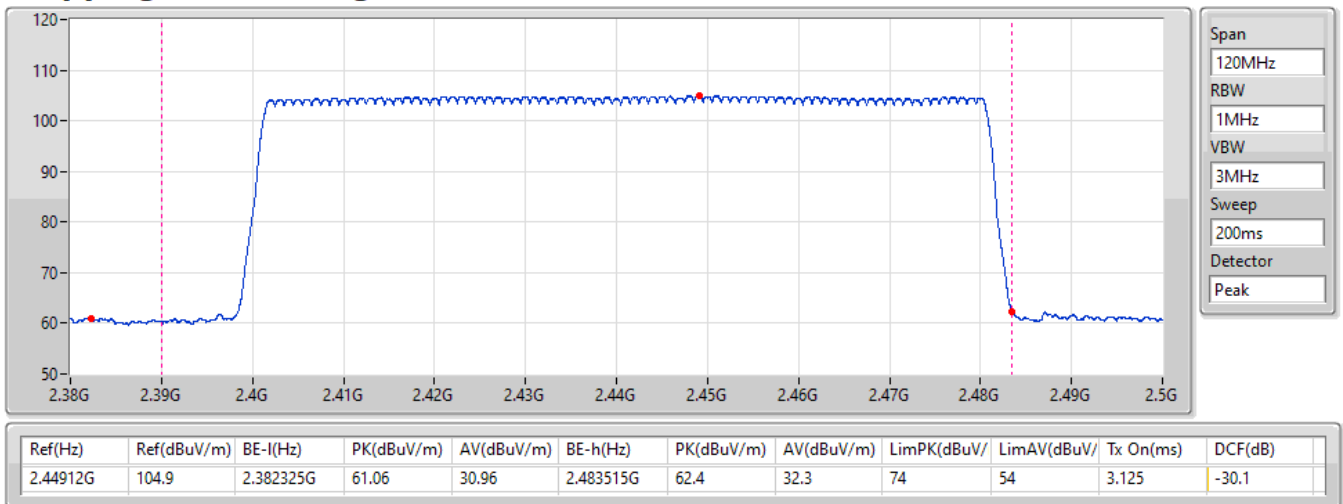
BT-EDR(2Mbps)
2440MHz
Hopping Ch Bandedge (Non-restricted Band)

21/04/2022



BT-EDR(2Mbps)
2440MHz
Hopping Ch Bandedge (Restricted Band)

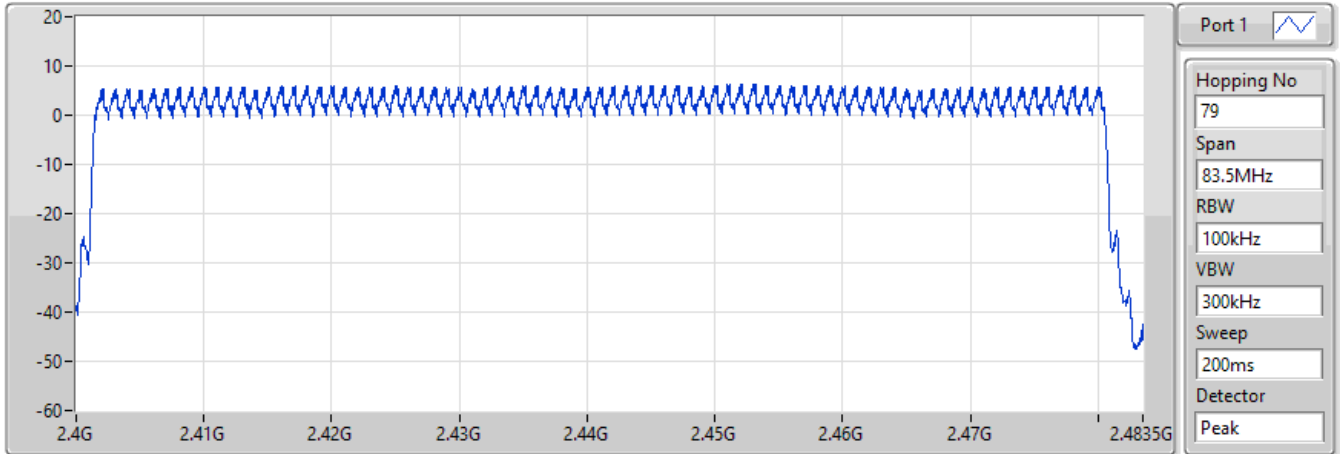
21/04/2022



**BT-EDR(3Mbps)
2440MHz**

Hopping-FS

21/04/2022



Port 1

Hopping No
79

Span
83.5MHz

RBW
100kHz

VBW
300kHz

Sweep
200ms

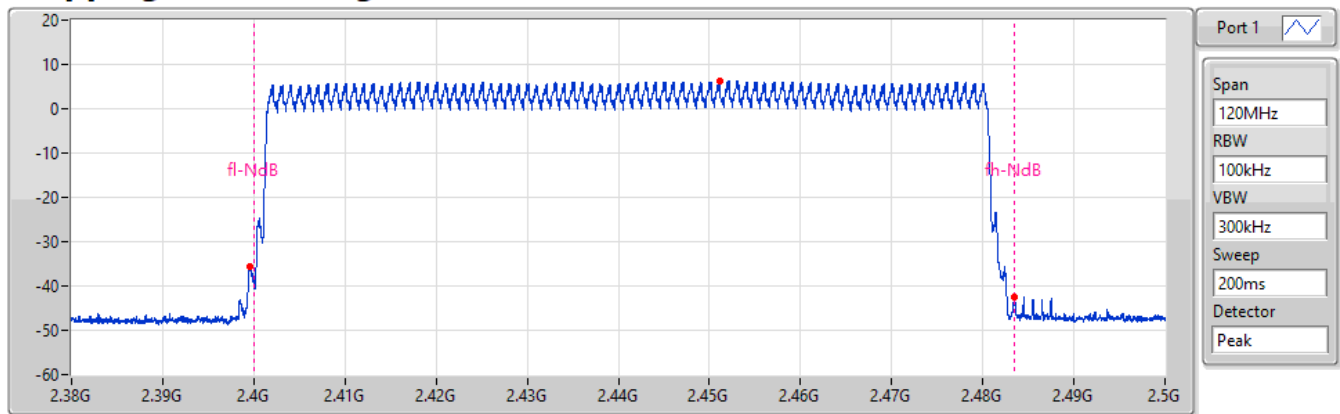
Detector
Peak

Hopping No	Limit
79	15

**BT-EDR(3Mbps)
2440MHz**

Hopping Ch Bandedge (Non-restricted Band)

21/04/2022



Port 1

Span
120MHz

RBW
100kHz

VBW
300kHz

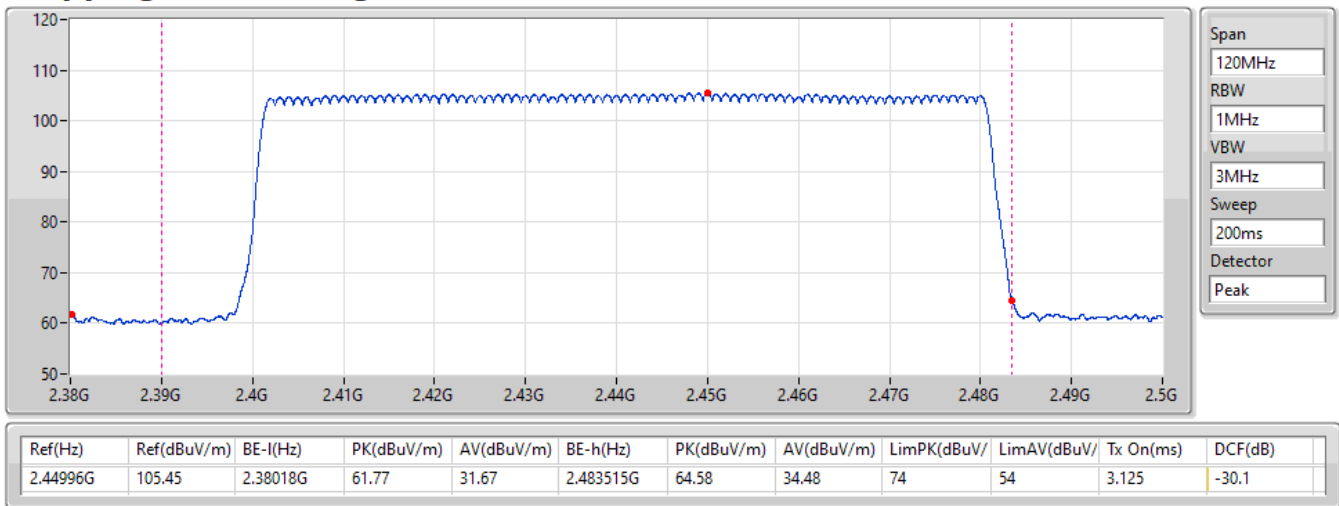
Sweep
200ms

Detector
Peak

Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-13.79	2.45116G	6.21	2.399545G	-35.75	2.483515G	-42.55

BT-EDR(3Mbps)
2440MHz
Hopping Ch Bandedge (Restricted Band)

21/04/2022





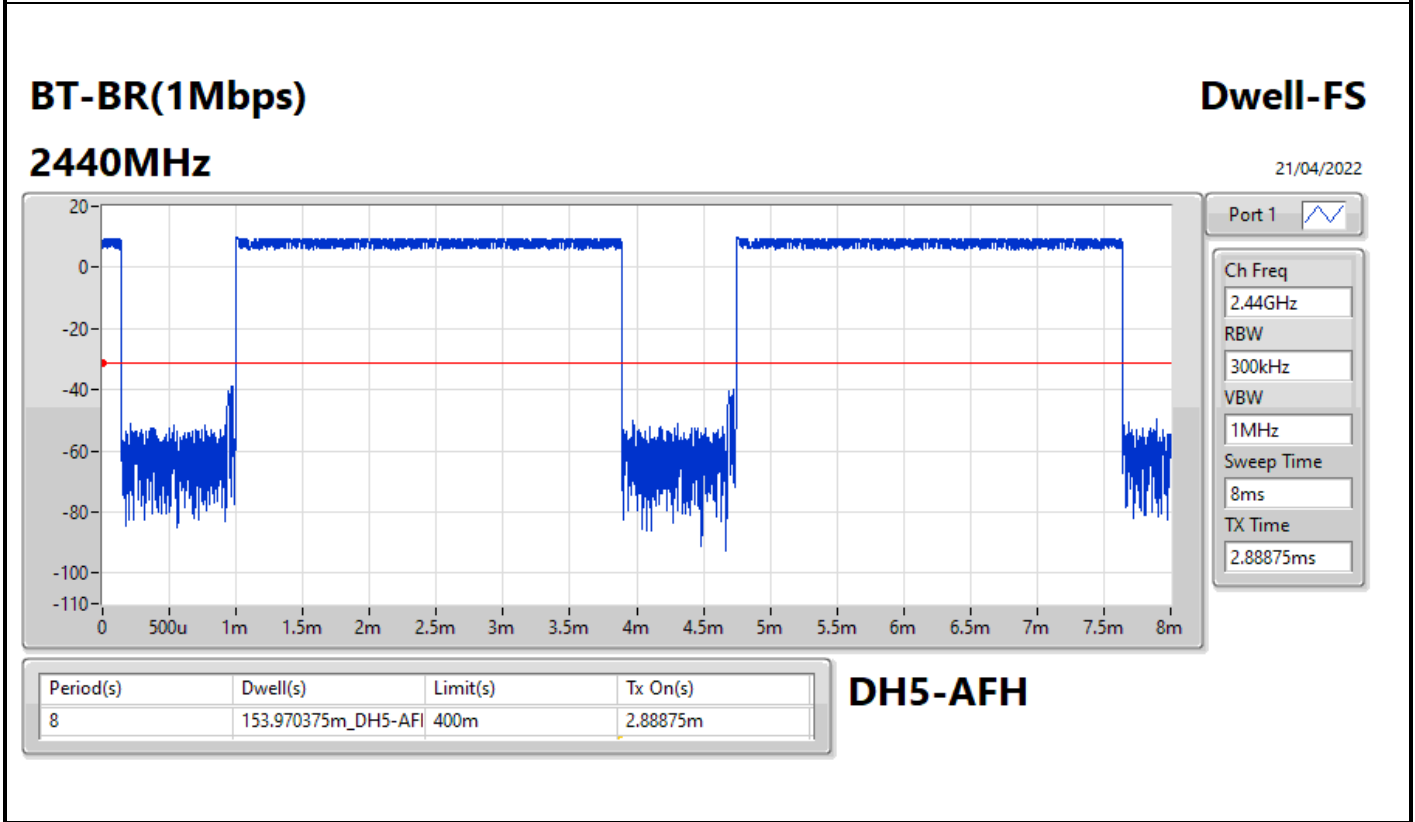
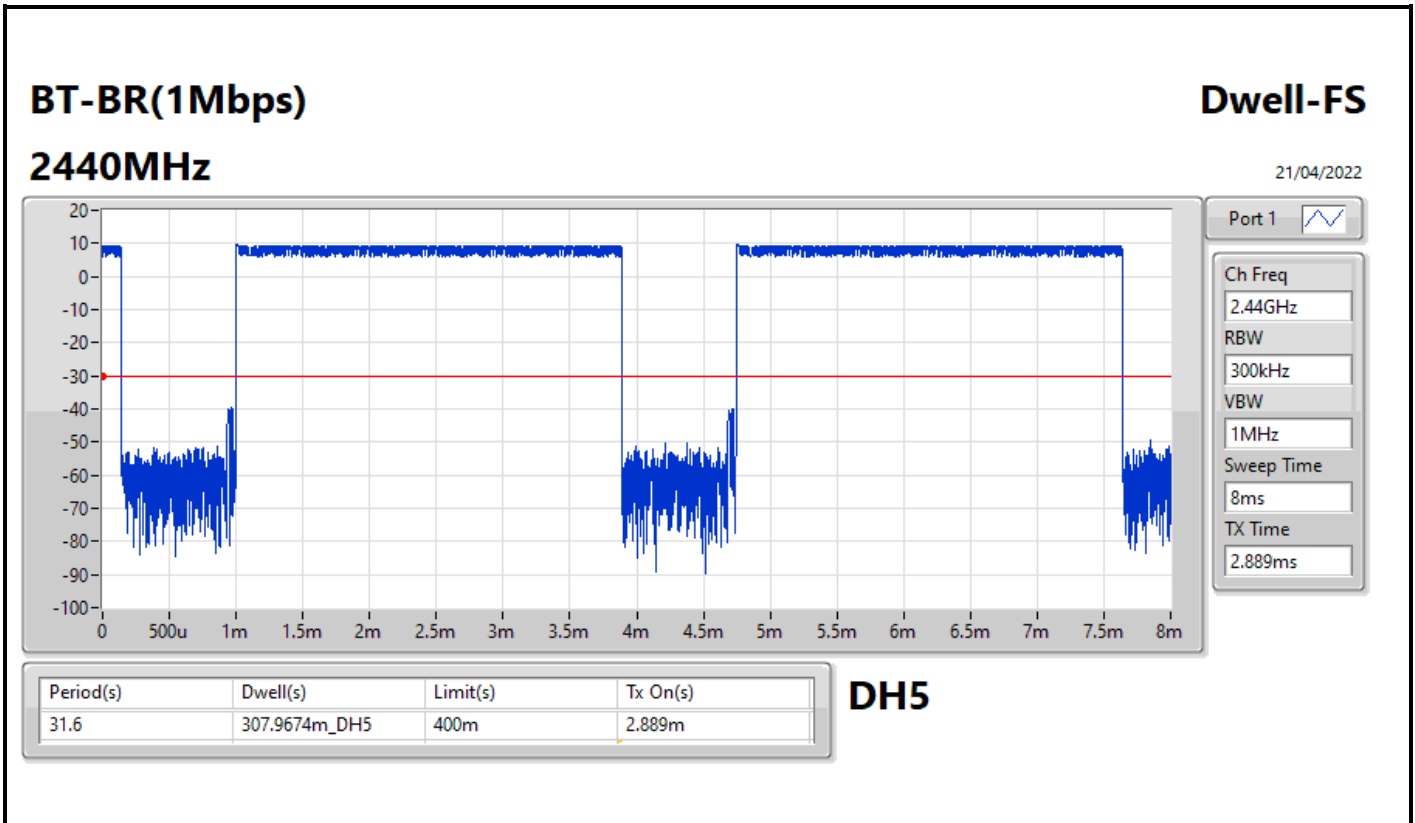
Summary

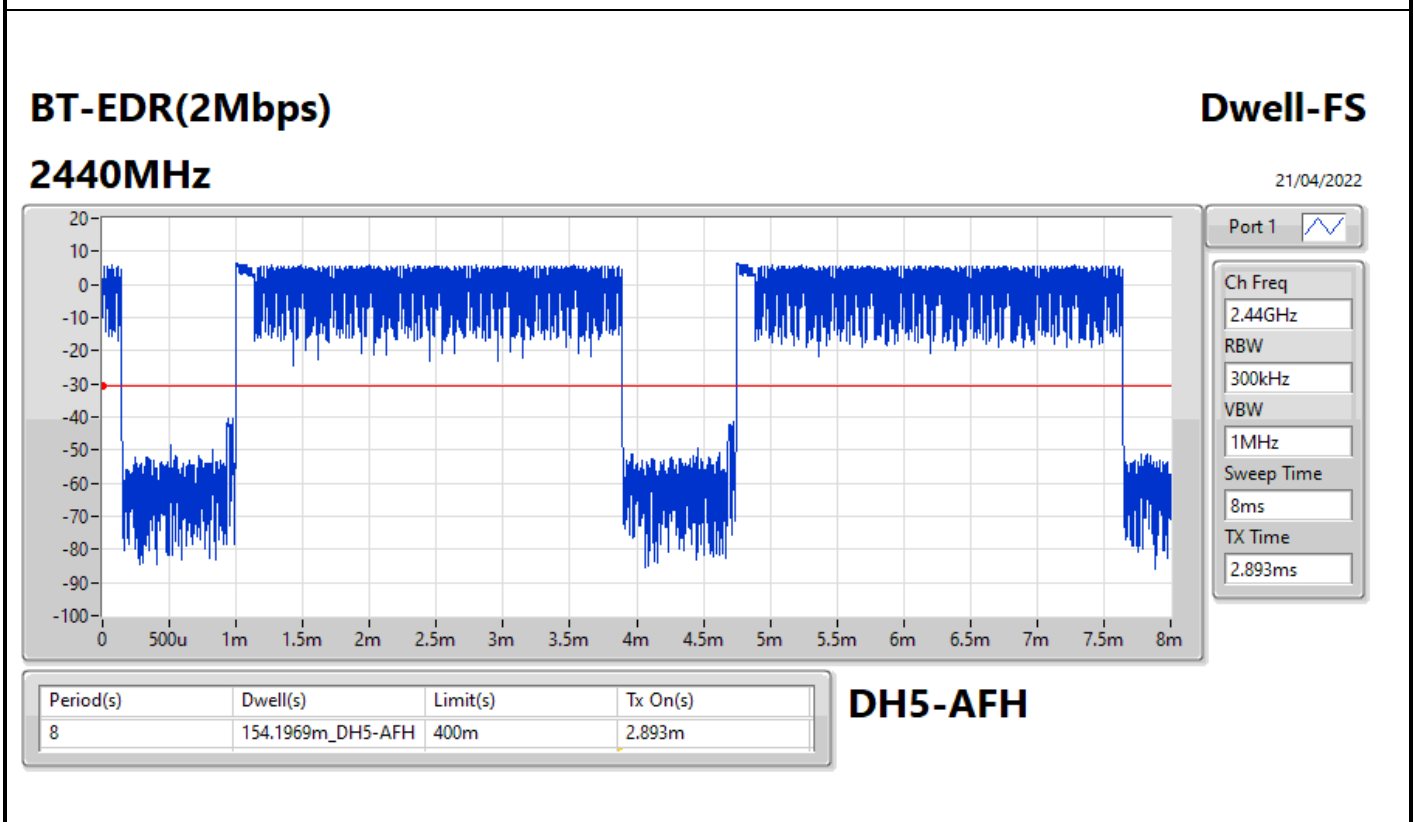
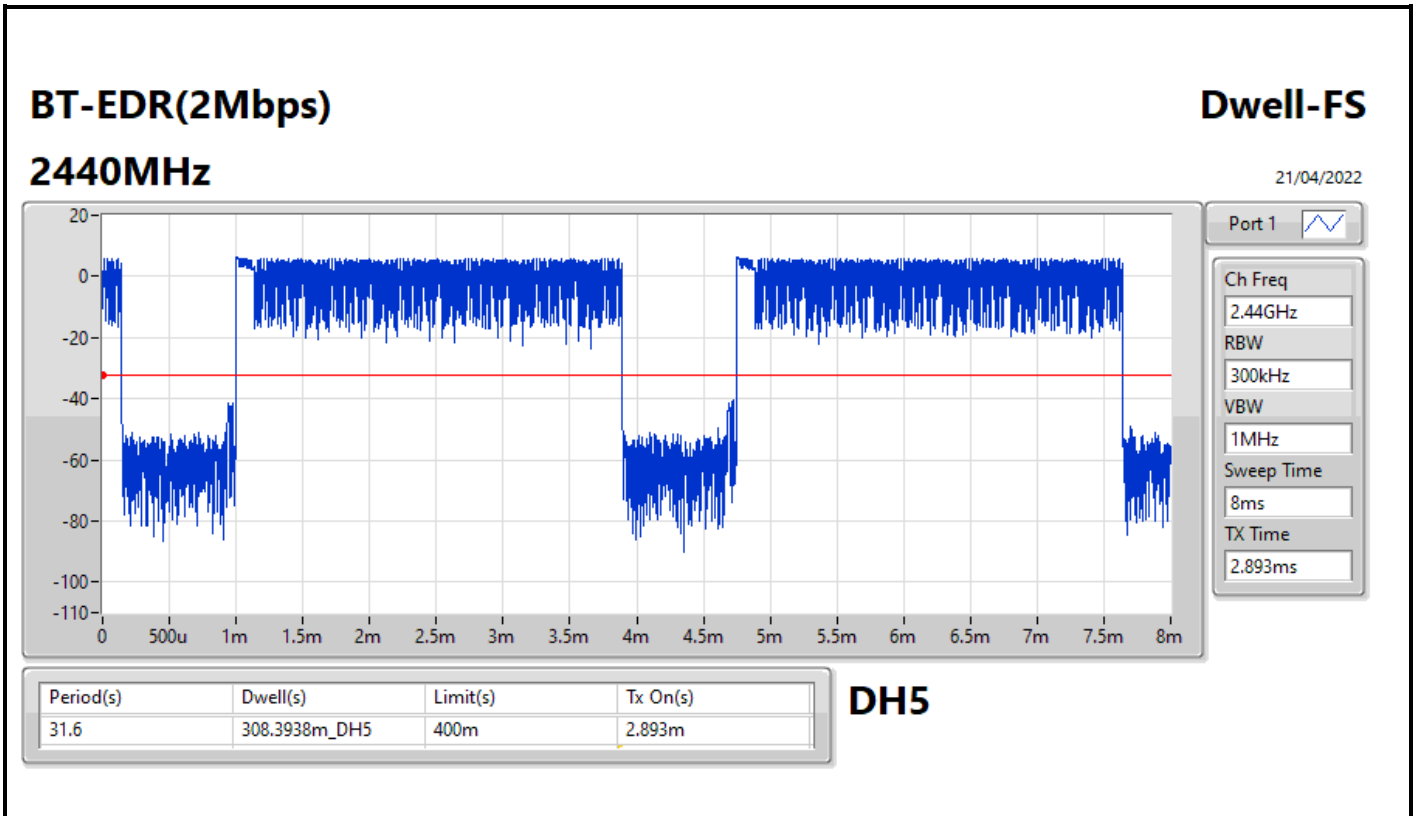
Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	307.9674m_DH5
BT-EDR(2Mbps)	308.3938m_DH5
BT-EDR(3Mbps)	308.6603m_DH5

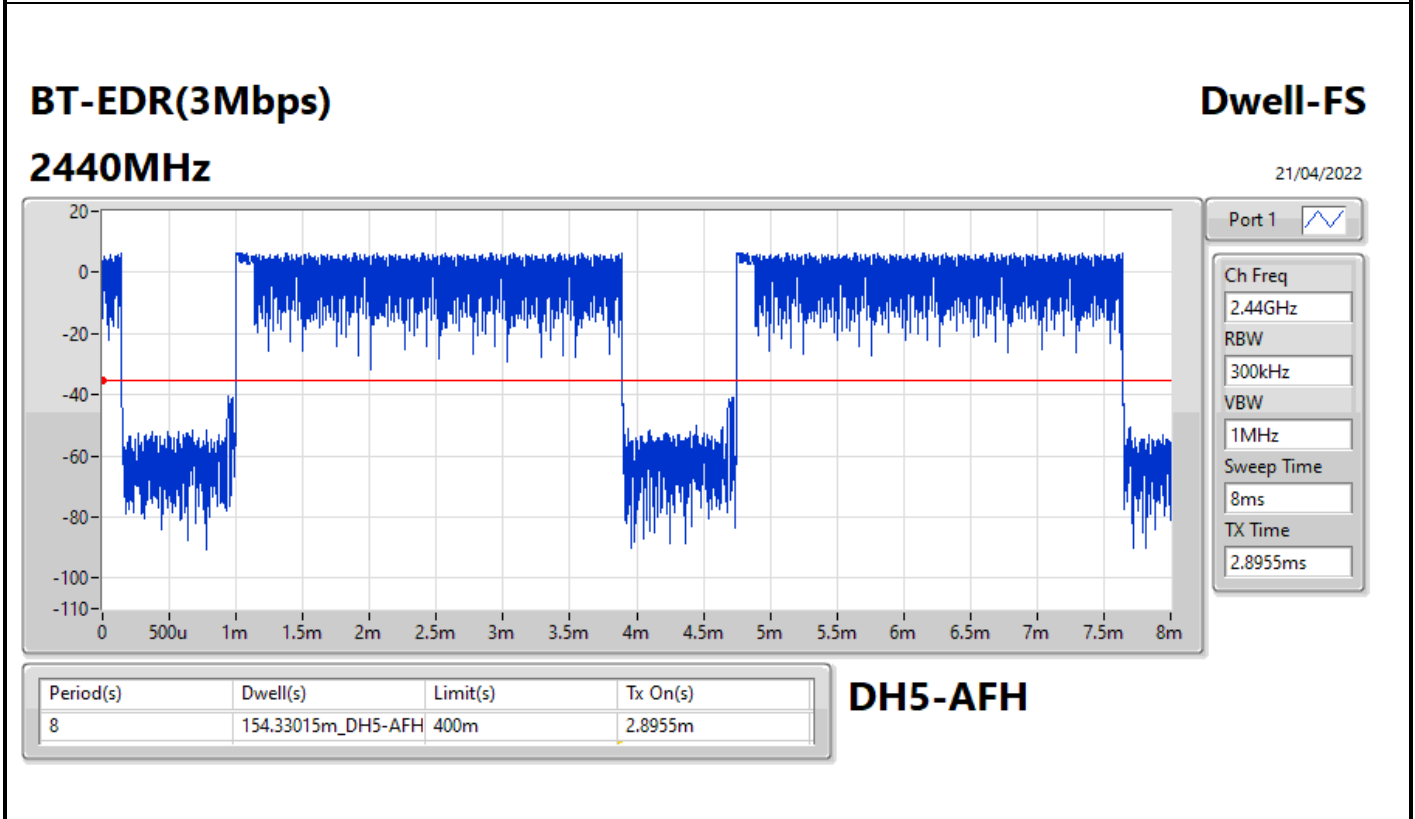
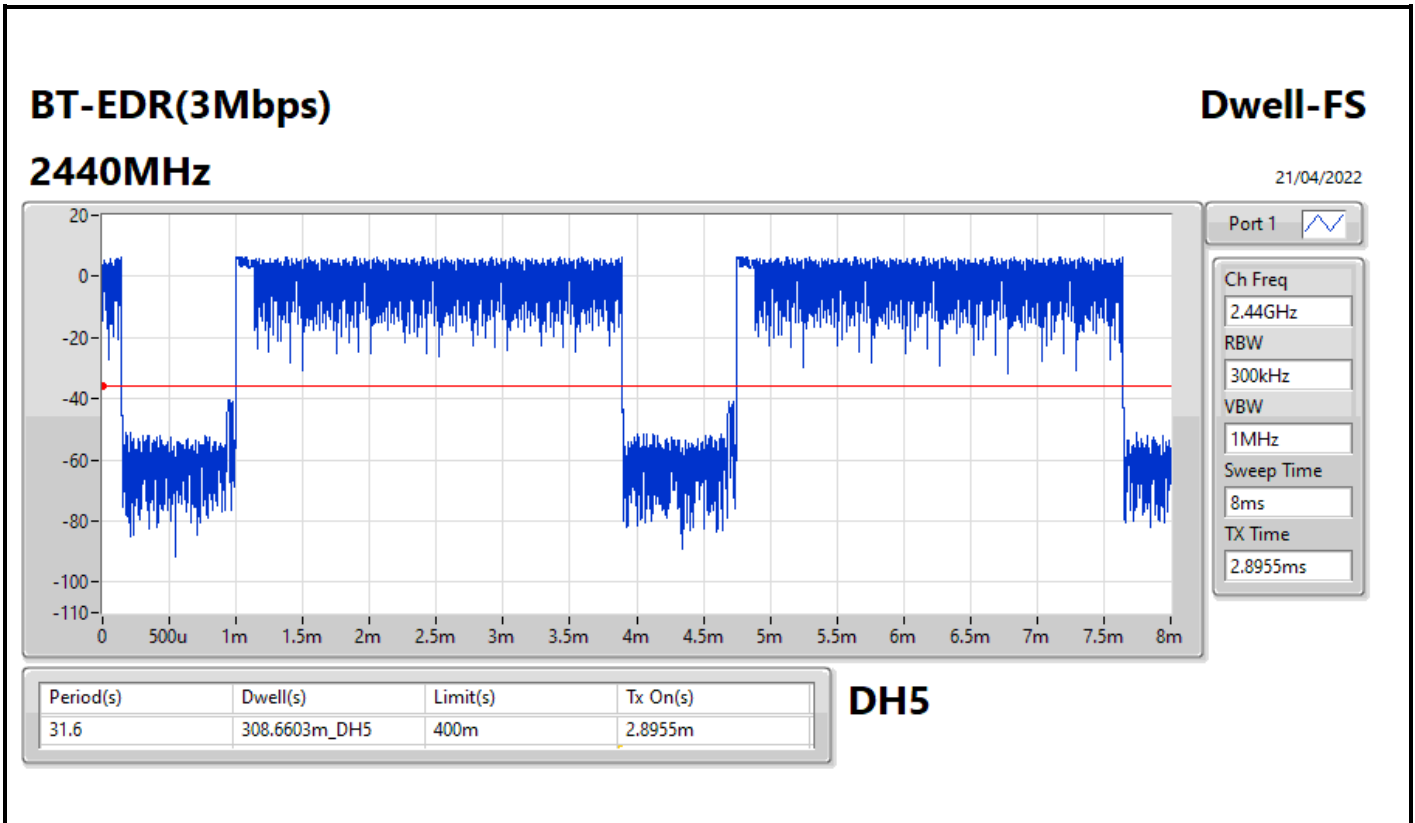


Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.9674m_DH5	400m	2.889m
2440MHz	Pass	8	153.970375m_DH5-AFH	400m	2.88875m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.3938m_DH5	400m	2.893m
2440MHz	Pass	8	154.1969m_DH5-AFH	400m	2.893m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	308.6603m_DH5	400m	2.8955m
2440MHz	Pass	8	154.33015m_DH5-AFH	400m	2.8955m









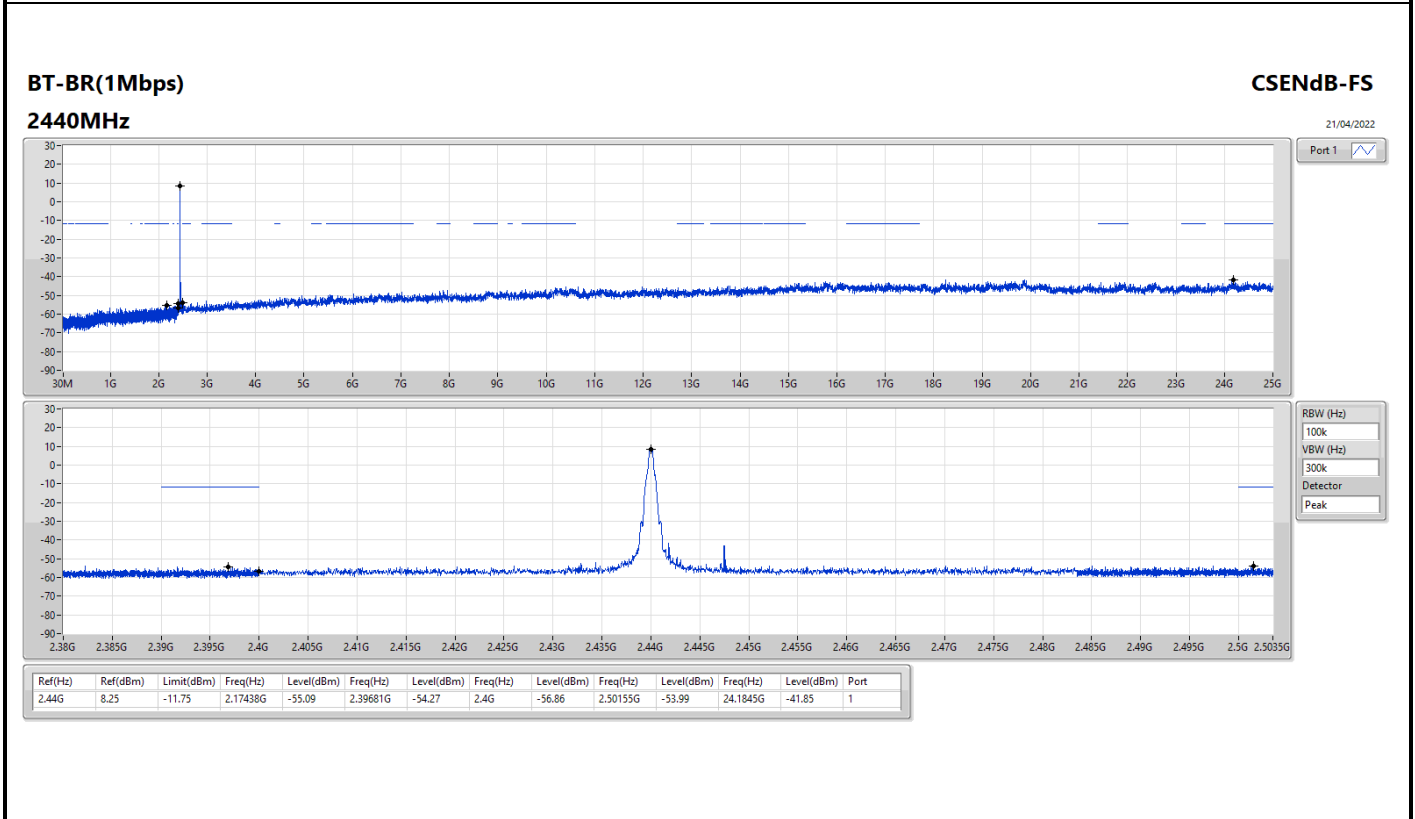
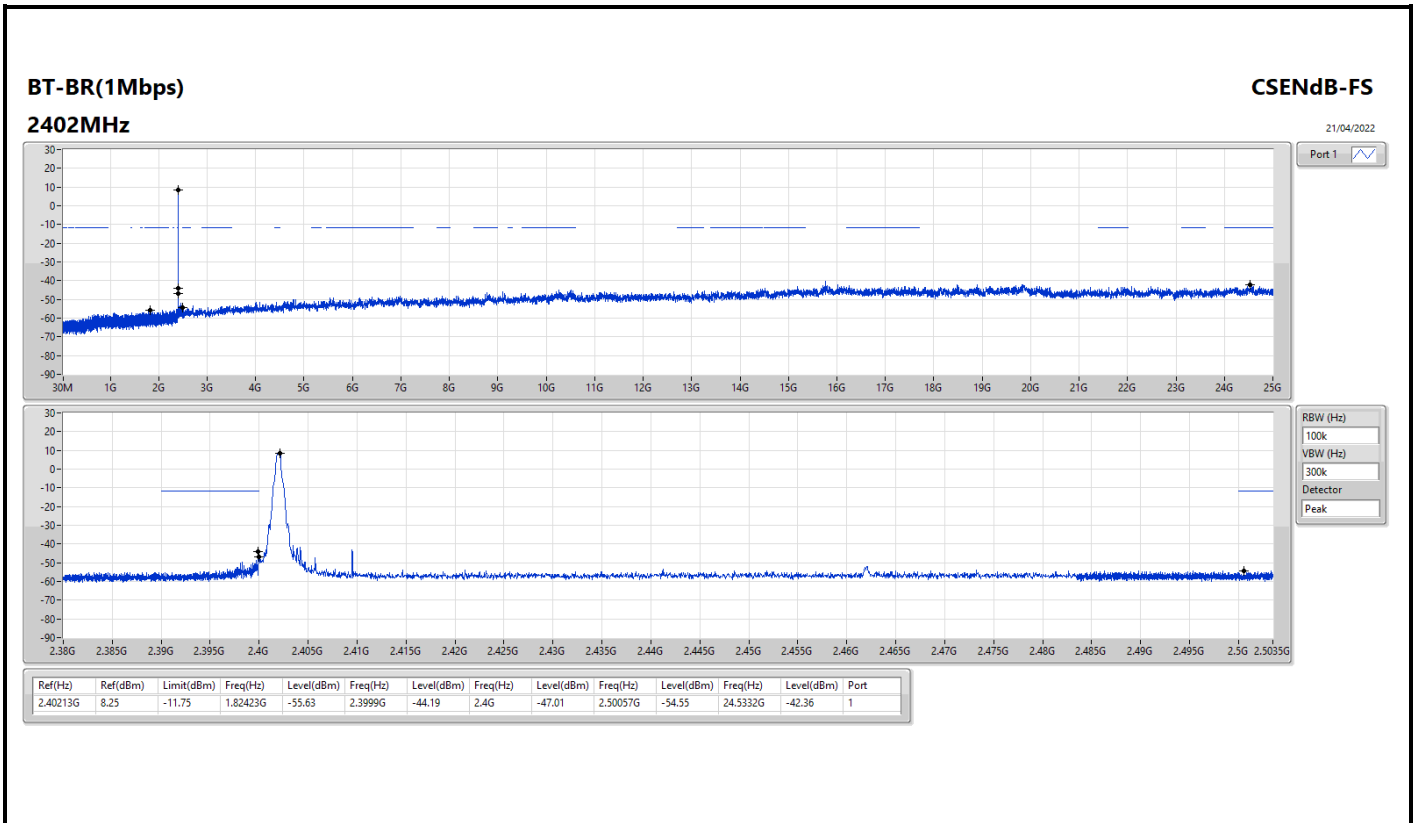
Summary

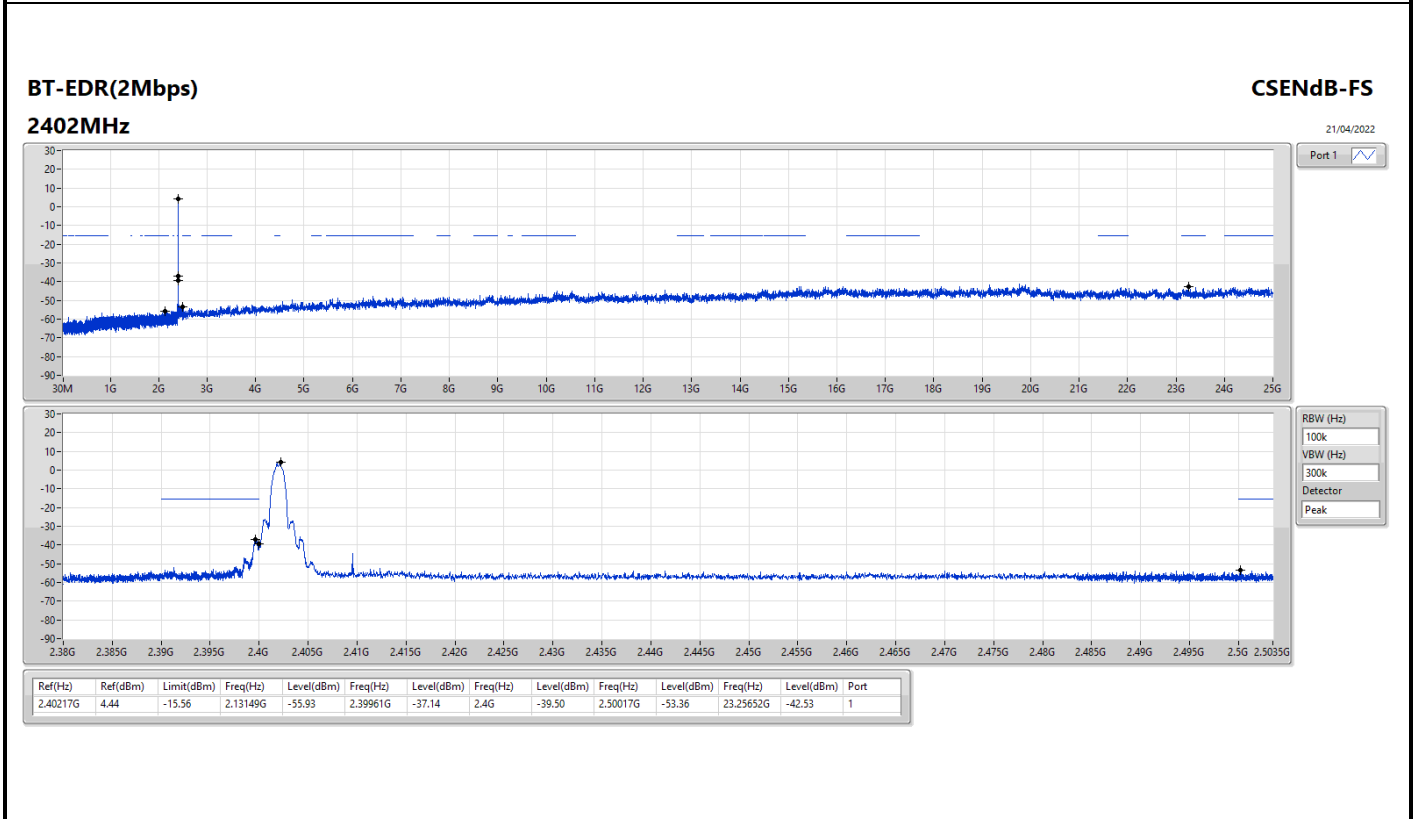
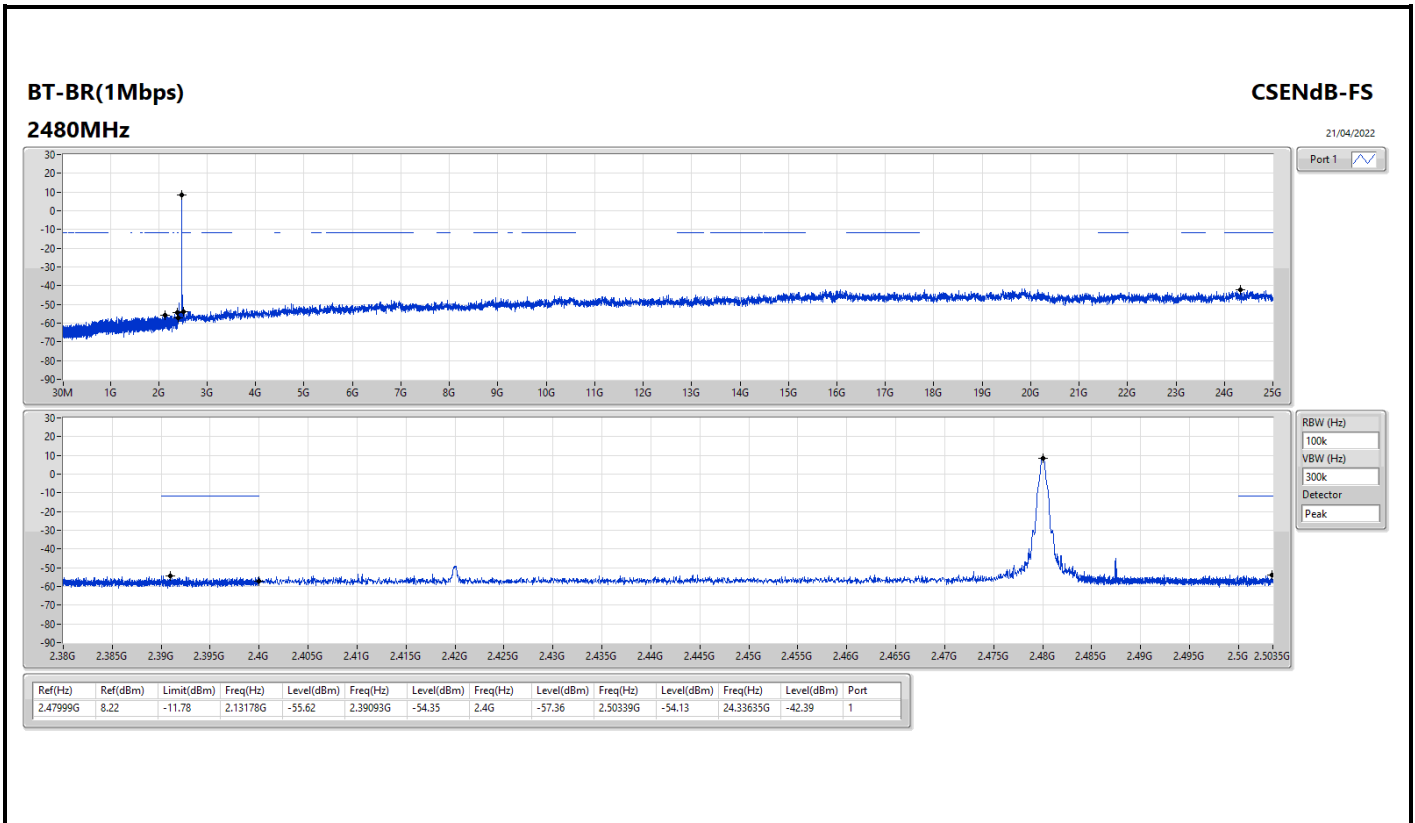
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.40213G	8.25	-11.75	1.82423G	-55.63	2.3999G	-44.19	2.4G	-47.01	2.50057G	-54.55	24.5332G	-42.36	1
BT-EDR(2Mbps)	Pass	2.40217G	4.44	-15.56	2.13149G	-55.93	2.39961G	-37.14	2.4G	-39.50	2.50017G	-53.36	23.25652G	-42.53	1
BT-EDR(3Mbps)	Pass	2.40188G	3.92	-16.08	1.99724G	-55.77	2.39959G	-37.00	2.4G	-41.96	2.50111G	-54.15	16.76066G	-42.95	1

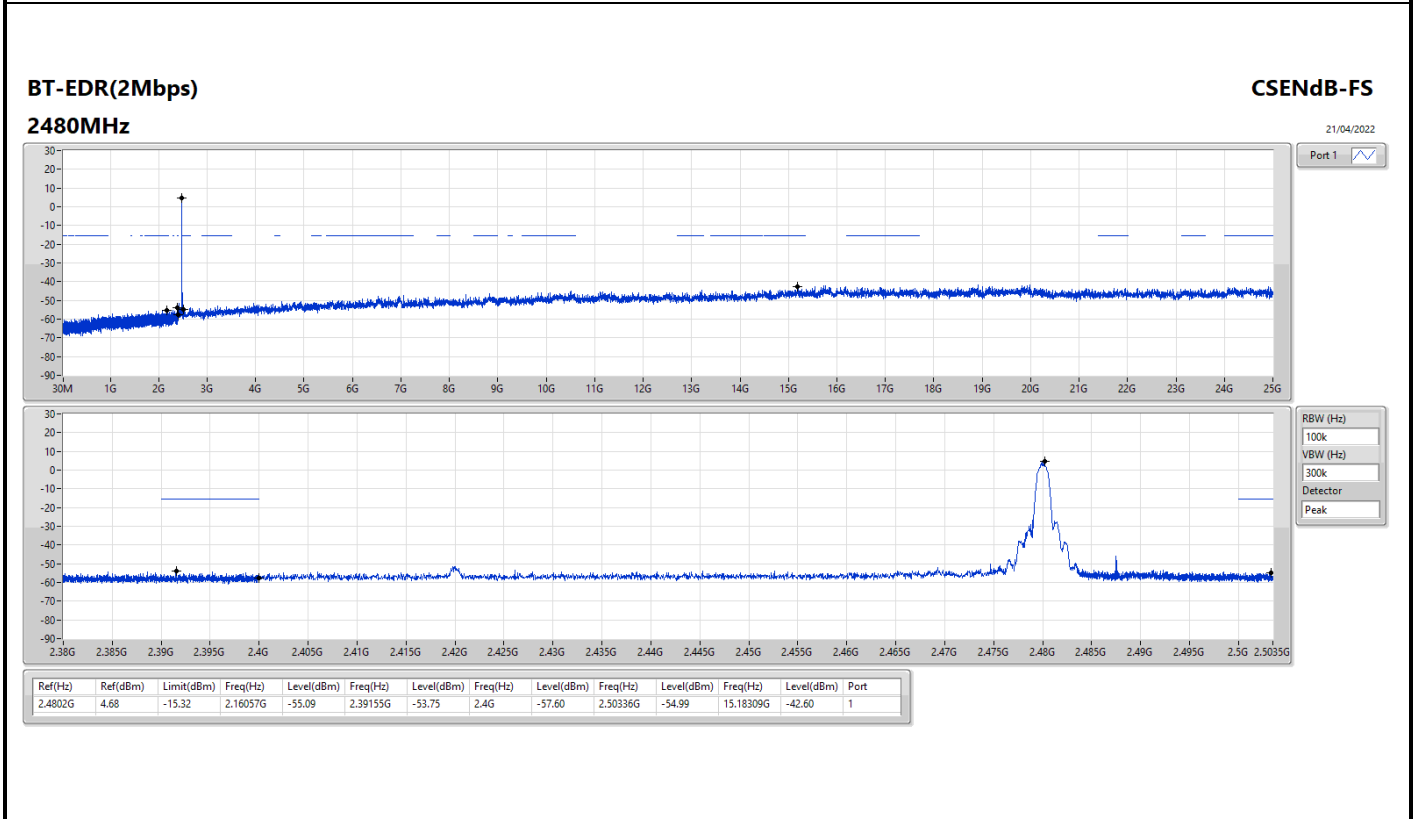
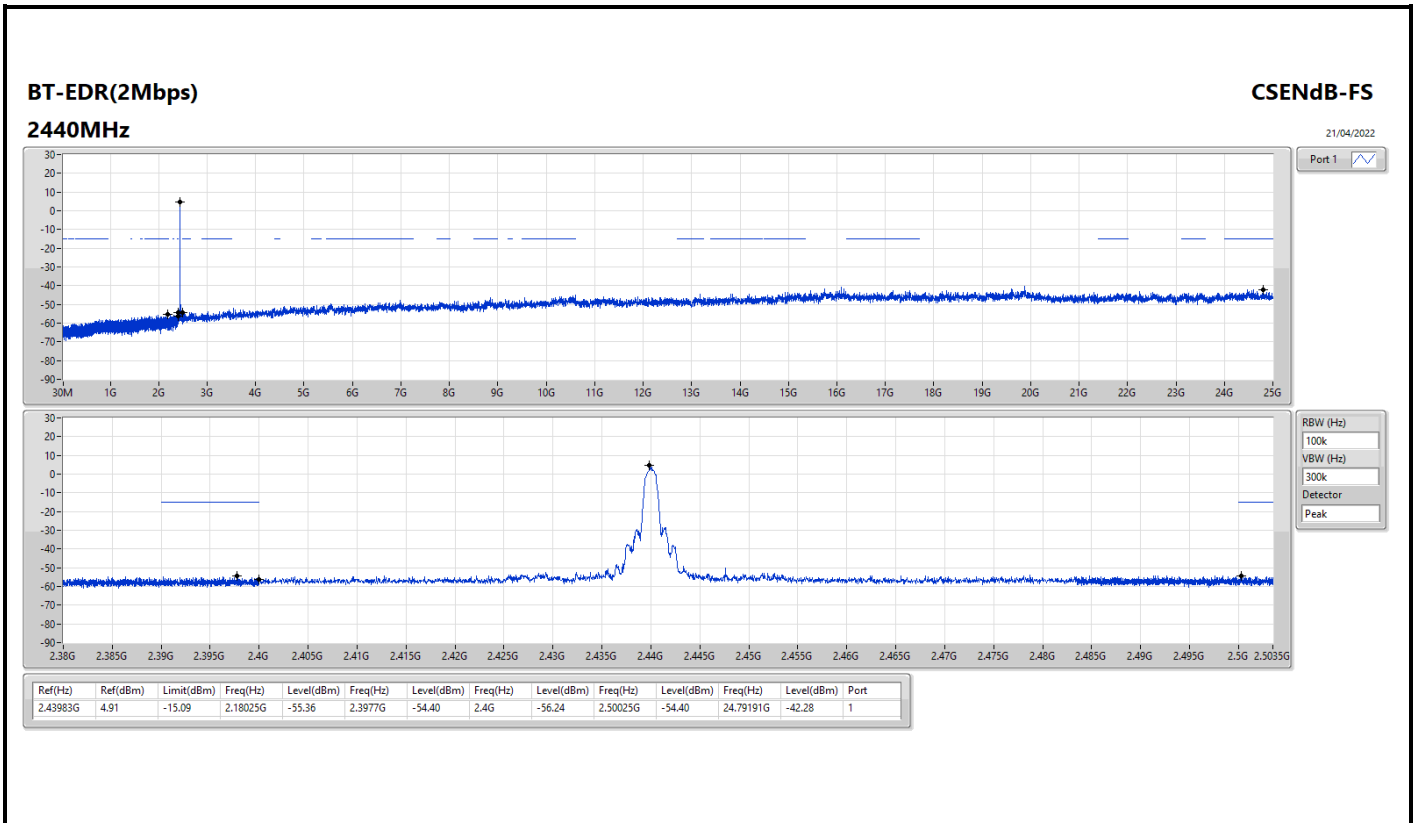


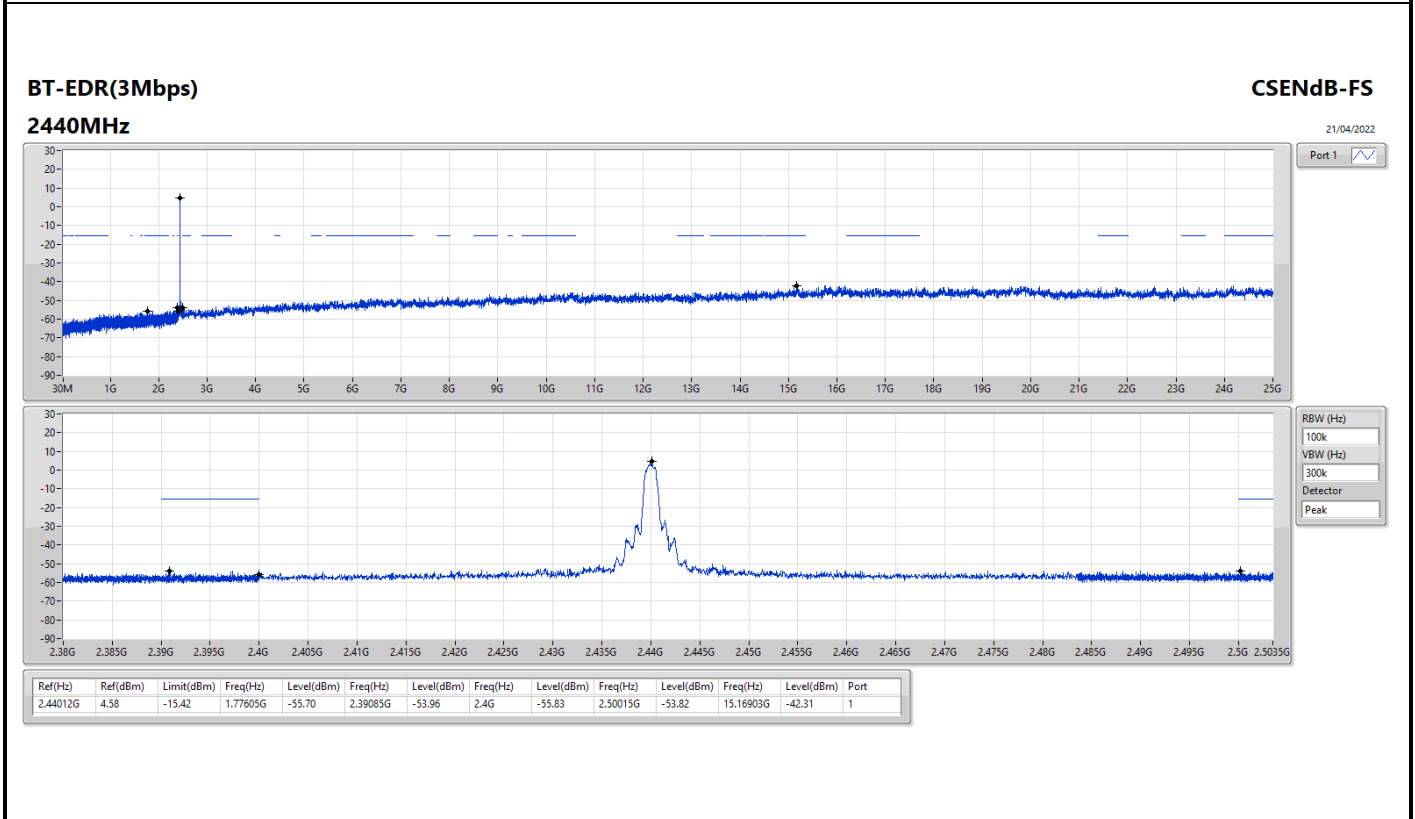
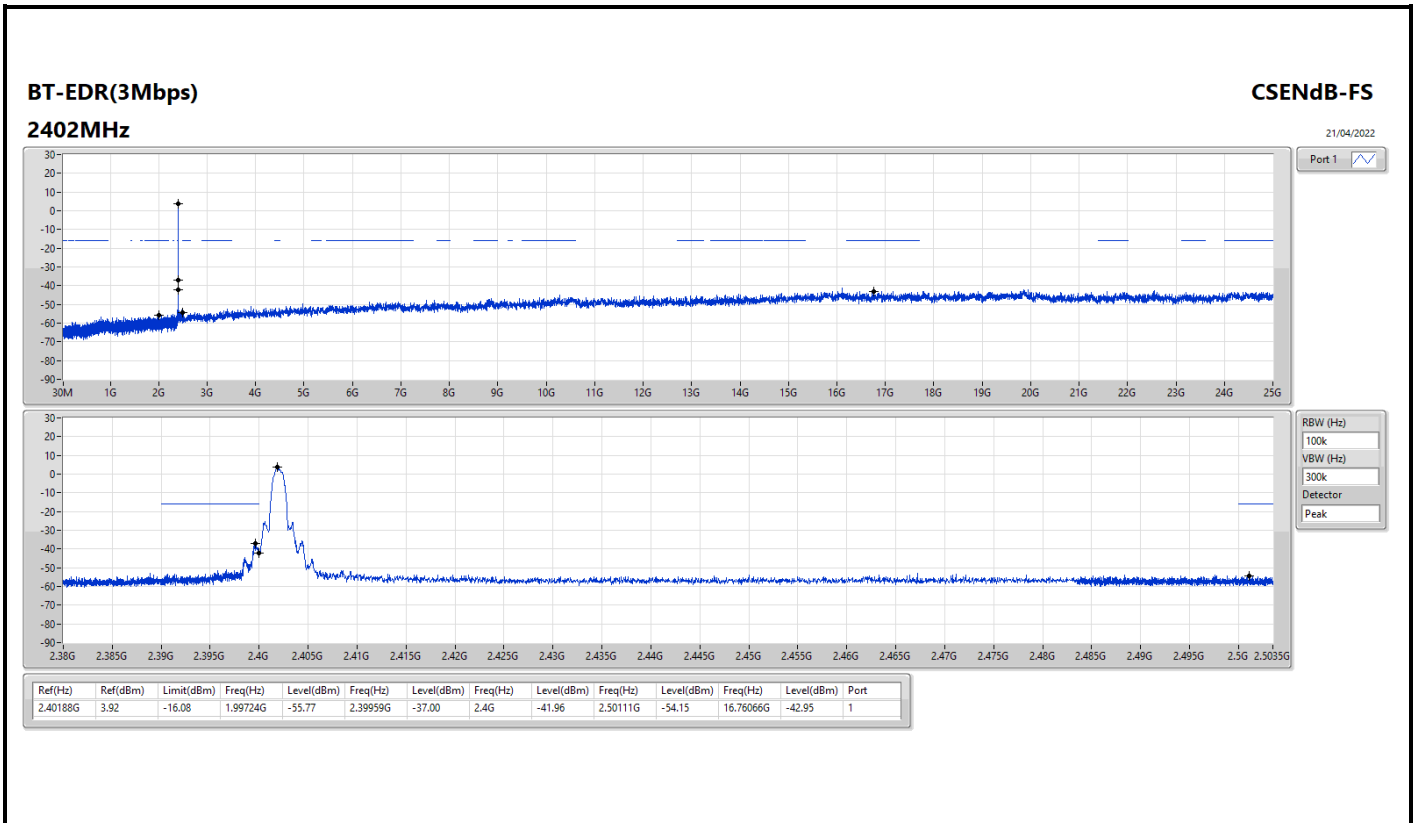
Result

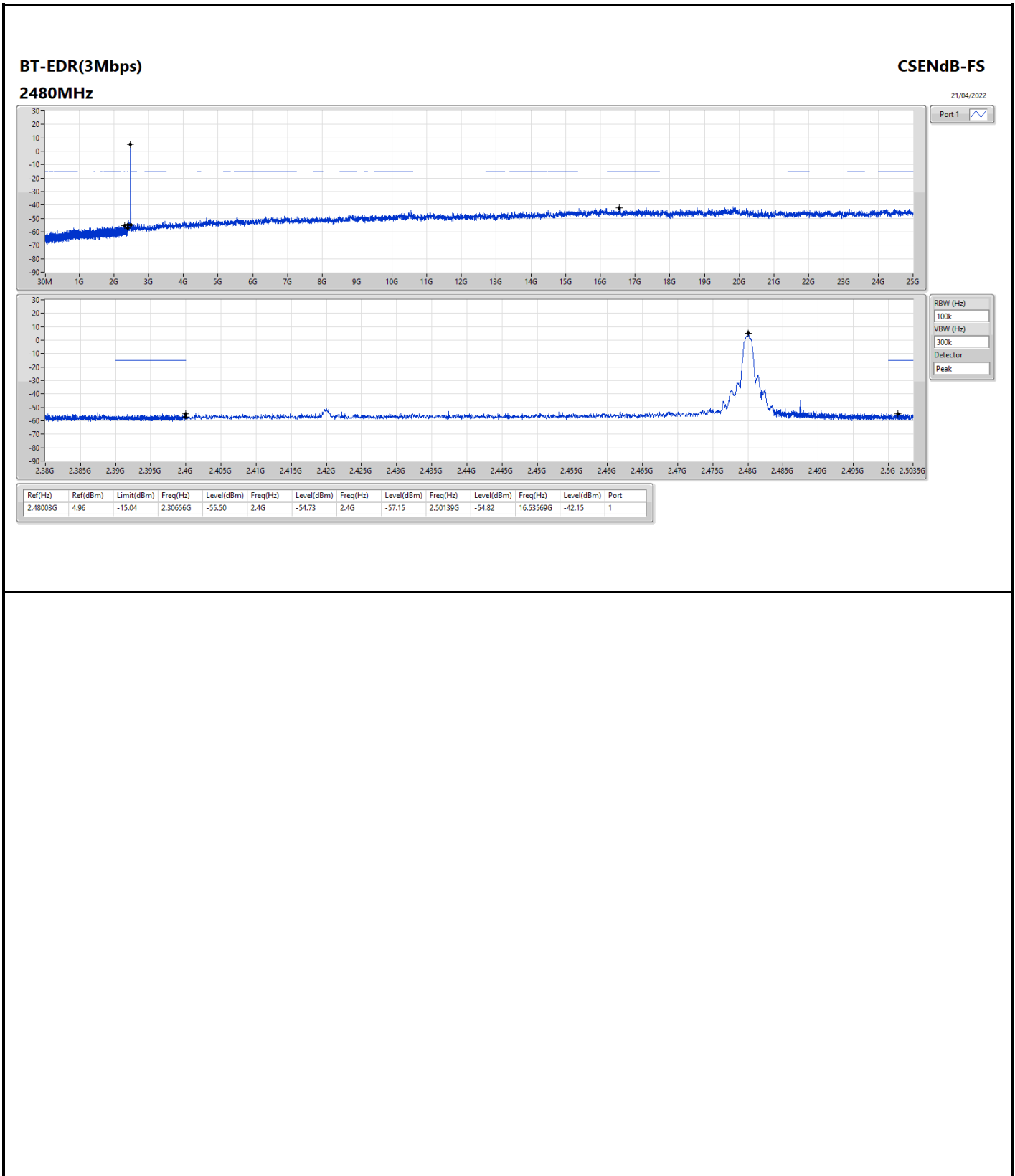
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40213G	8.25	-11.75	1.82423G	-55.63	2.3999G	-44.19	2.4G	-47.01	2.50057G	-54.55	24.5332G	-42.36	1
2440MHz	Pass	2.44G	8.25	-11.75	2.17438G	-55.09	2.39681G	-54.27	2.4G	-56.86	2.50155G	-53.99	24.1845G	-41.85	1
2480MHz	Pass	2.47999G	8.22	-11.78	2.13178G	-55.62	2.39093G	-54.35	2.4G	-57.36	2.50339G	-54.13	24.33635G	-42.39	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	4.44	-15.56	2.13149G	-55.93	2.39961G	-37.14	2.4G	-39.50	2.50017G	-53.36	23.25652G	-42.53	1
2440MHz	Pass	2.43983G	4.91	-15.09	2.18025G	-55.36	2.3977G	-54.40	2.4G	-56.24	2.50025G	-54.40	24.79191G	-42.28	1
2480MHz	Pass	2.4802G	4.68	-15.32	2.16057G	-55.09	2.39155G	-53.75	2.4G	-57.60	2.50336G	-54.99	15.18309G	-42.60	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40188G	3.92	-16.08	1.99724G	-55.77	2.39959G	-37.00	2.4G	-41.96	2.50111G	-54.15	16.76066G	-42.95	1
2440MHz	Pass	2.44012G	4.58	-15.42	1.77605G	-55.70	2.39085G	-53.96	2.4G	-55.83	2.50015G	-53.82	15.16903G	-42.31	1
2480MHz	Pass	2.48003G	4.96	-15.04	2.30656G	-55.50	2.4G	-54.73	2.4G	-57.15	2.50139G	-54.82	16.53569G	-42.15	1













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	288.02M	38.06	46.00	-7.94	3	Horizontal	0	1.00	-

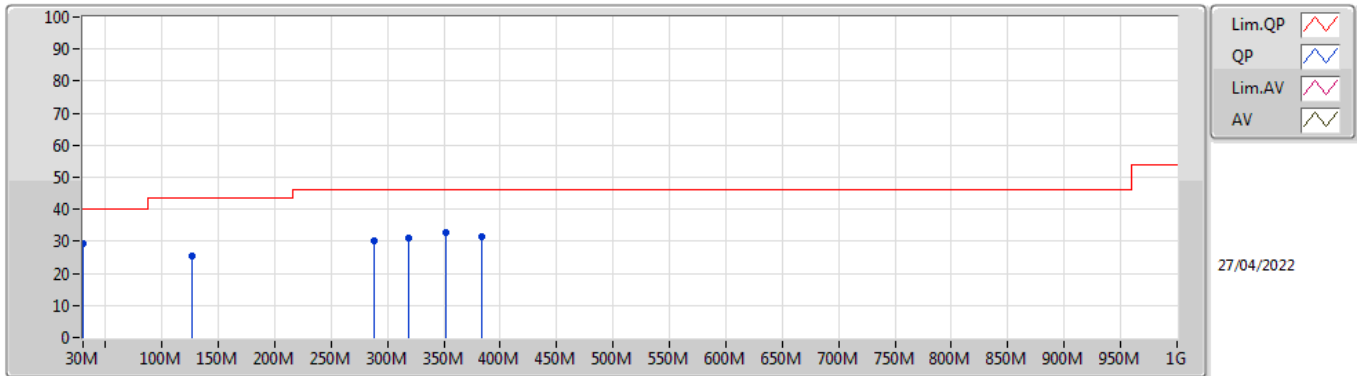


Result

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	30M	29.36	40.00	-10.64	3	Vertical	360	1.00	-
2440MHz	Pass	PK	127M	25.48	43.50	-18.02	3	Vertical	360	1.00	-
2440MHz	Pass	PK	288.02M	30.25	46.00	-15.75	3	Vertical	360	1.00	-
2440MHz	Pass	PK	319.06M	30.93	46.00	-15.07	3	Vertical	360	1.00	-
2440MHz	Pass	PK	352.04M	32.63	46.00	-13.37	3	Vertical	360	1.00	-
2440MHz	Pass	PK	383.08M	31.31	46.00	-14.69	3	Vertical	360	1.00	-
2440MHz	Pass	PK	224M	32.01	46.00	-13.99	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	255.04M	34.56	46.00	-11.44	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	288.02M	38.06	46.00	-7.94	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	319.06M	34.62	46.00	-11.38	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	400.54M	31.28	46.00	-14.72	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	511.12M	27.86	46.00	-18.14	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	81.498k	51.27	109.37	-58.10	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	116.778k	52.09	106.25	-54.16	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	34.458k	58.44	116.85	-58.41	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	269.4k	49.85	99.00	-49.15	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	806.7k	45.48	69.48	-24.00	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	2.06M	45.06	69.50	-24.44	3	Horizontal	360	1.00	-

BT-BR(1Mbps)

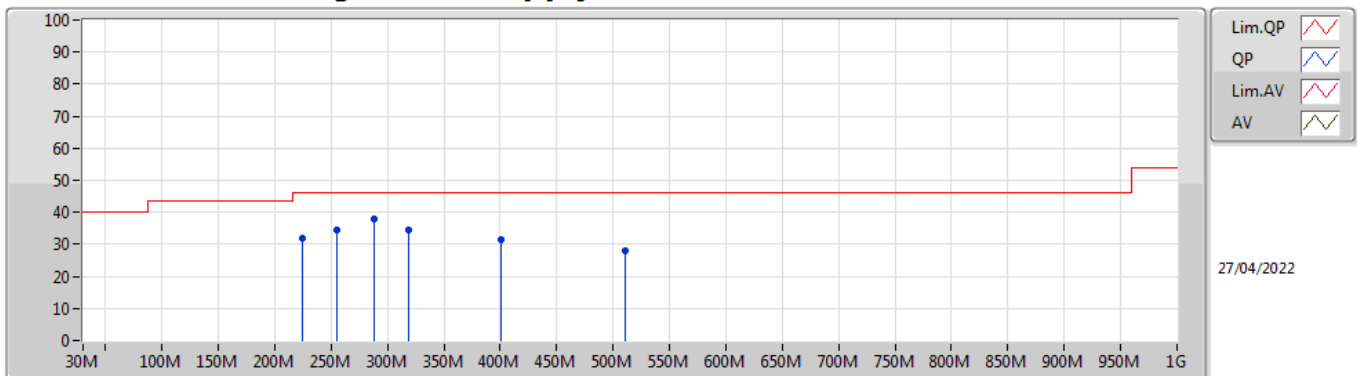
2440MHz_Switching Power Supply



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	30M	29.36	40.00	-10.64	-2.94	3	Vertical	360	1.00	-	32.30	23.76	0.88	27.58
PK	127M	25.48	43.50	-18.02	-8.27	3	Vertical	360	1.00	-	33.75	17.13	1.85	27.25
PK	288.02M	30.25	46.00	-15.75	-5.79	3	Vertical	360	1.00	-	36.04	17.99	2.85	26.63
PK	319.06M	30.93	46.00	-15.07	-4.96	3	Vertical	360	1.00	-	35.89	18.75	3.00	26.71
PK	352.04M	32.63	46.00	-13.37	-4.15	3	Vertical	360	1.00	-	36.78	19.57	3.15	26.87
PK	383.08M	31.31	46.00	-14.69	-3.55	3	Vertical	360	1.00	-	34.86	20.23	3.30	27.08

BT-BR(1Mbps)

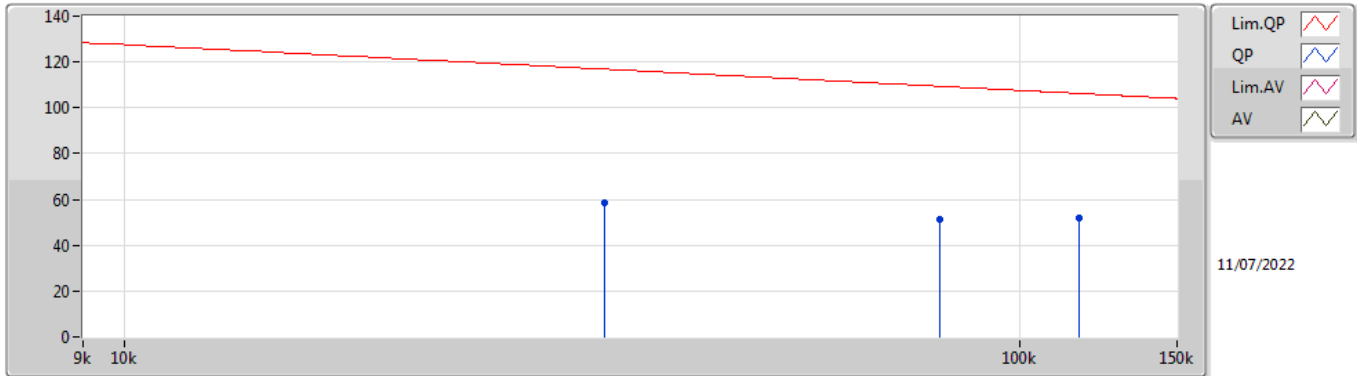
2440MHz_Switching Power Supply



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	224M	32.01	46.00	-13.99	-9.74	3	Horizontal	0	1.00	-	41.75	14.57	2.48	26.79
PK	255.04M	34.56	46.00	-11.44	-5.89	3	Horizontal	0	1.00	-	40.45	18.12	2.66	26.67
PK	288.02M	38.06	46.00	-7.94	-5.79	3	Horizontal	0	1.00	-	43.85	17.99	2.85	26.63
PK	319.06M	34.62	46.00	-11.38	-4.96	3	Horizontal	0	1.00	-	39.58	18.75	3.00	26.71
PK	400.54M	31.28	46.00	-14.72	-2.79	3	Horizontal	0	1.00	-	34.07	21.02	3.38	27.19
PK	511.12M	27.86	46.00	-18.14	-1.17	3	Horizontal	0	1.00	-	29.03	22.80	3.85	27.82

BT-BR(1Mbps)

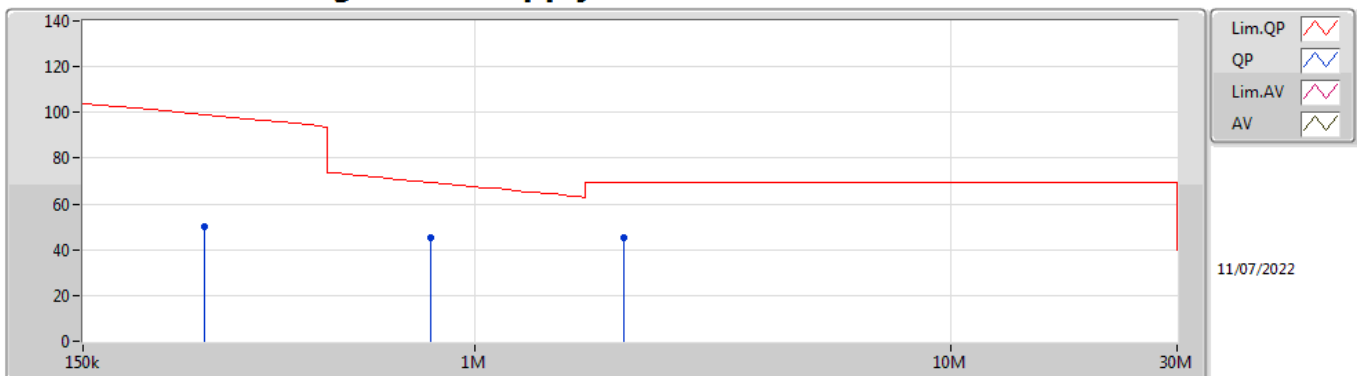
2440MHz_Switching Power Supply



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	81.498k	51.27	109.37	-58.10	20.07	3	Horizontal	0	1.00	-	31.20	20.03	0.04	-
PK	116.778k	52.09	106.25	-54.16	19.81	3	Horizontal	0	1.00	-	32.28	19.77	0.04	-
PK	34.458k	58.44	116.85	-58.41	21.41	3	Horizontal	0	1.00	-	37.03	21.38	0.03	-

BT-BR(1Mbps)

2440MHz_Switching Power Supply



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	269.4k	49.85	99.00	-49.15	20.21	3	Horizontal	360	1.00	-	29.64	20.15	0.06	-
PK	806.7k	45.48	69.48	-24.00	20.38	3	Horizontal	360	1.00	-	25.10	20.27	0.11	-
PK	2.06M	45.06	69.50	-24.44	20.00	3	Horizontal	360	1.00	-	25.06	19.84	0.16	-



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	2.4835G	60.12	74.00	-13.88	3	Horizontal	351	1.32	-
BT-EDR(3Mbps)	Pass	PK	2.4836G	64.22	74.00	-9.78	3	Horizontal	350	1.44	-



Result

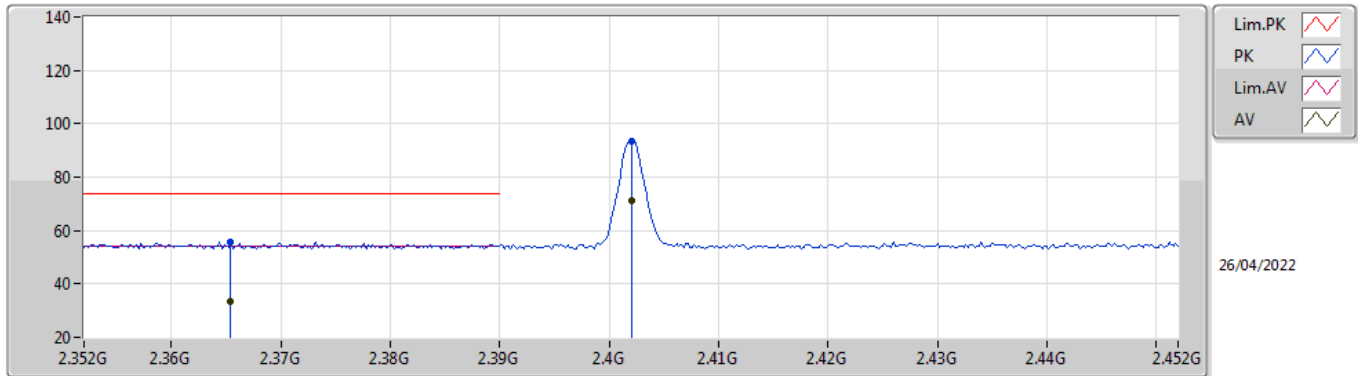
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3654G	33.36	54.00	-20.64	3	Vertical	267	1.29	-
2402MHz	Pass	AV	2.402G	71.10	Inf	-Inf	3	Vertical	267	1.29	-
2402MHz	Pass	PK	2.3654G	55.86	74.00	-18.14	3	Vertical	267	1.29	-
2402MHz	Pass	PK	2.402G	93.60	Inf	-Inf	3	Vertical	267	1.29	-
2402MHz	Pass	AV	2.3534G	33.22	54.00	-20.78	3	Horizontal	350	1.42	-
2402MHz	Pass	AV	2.4018G	81.49	Inf	-Inf	3	Horizontal	350	1.42	-
2402MHz	Pass	PK	2.3534G	55.72	74.00	-18.28	3	Horizontal	350	1.42	-
2402MHz	Pass	PK	2.4018G	103.99	Inf	-Inf	3	Horizontal	350	1.42	-
2402MHz	Pass	AV	4.80198G	21.27	54.00	-32.73	3	Vertical	138	2.99	-
2402MHz	Pass	PK	4.80198G	43.77	74.00	-30.23	3	Vertical	138	2.99	-
2402MHz	Pass	AV	4.80256G	21.58	54.00	-32.42	3	Horizontal	138	2.99	-
2402MHz	Pass	PK	4.80256G	44.08	74.00	-29.92	3	Horizontal	138	2.99	-
2440MHz	Pass	AV	2.356G	33.33	54.00	-20.67	3	Vertical	278	1.05	-
2440MHz	Pass	AV	2.44G	74.25	Inf	-Inf	3	Vertical	278	1.05	-
2440MHz	Pass	AV	2.4835G	33.81	54.00	-20.19	3	Vertical	278	1.05	-
2440MHz	Pass	PK	2.356G	55.83	74.00	-18.17	3	Vertical	278	1.05	-
2440MHz	Pass	PK	2.44G	96.75	Inf	-Inf	3	Vertical	278	1.05	-
2440MHz	Pass	PK	2.4835G	56.31	74.00	-17.69	3	Vertical	278	1.05	-
2440MHz	Pass	AV	2.3688G	33.31	54.00	-20.69	3	Horizontal	343	1.50	-
2440MHz	Pass	AV	2.44G	81.90	Inf	-Inf	3	Horizontal	343	1.50	-
2440MHz	Pass	AV	2.4884G	33.68	54.00	-20.32	3	Horizontal	343	1.50	-
2440MHz	Pass	PK	2.3688G	55.81	74.00	-18.19	3	Horizontal	343	1.50	-
2440MHz	Pass	PK	2.44G	104.40	Inf	-Inf	3	Horizontal	343	1.50	-
2440MHz	Pass	PK	2.4884G	56.18	74.00	-17.82	3	Horizontal	343	1.50	-
2440MHz	Pass	AV	4.88218G	21.40	54.00	-22.93	3	Vertical	0	1.75	-
2440MHz	Pass	PK	4.88218G	43.90	74.00	-30.10	3	Vertical	0	1.75	-
2440MHz	Pass	AV	4.88067G	21.44	54.00	-22.83	3	Horizontal	123	1.55	-
2440MHz	Pass	PK	4.88067G	43.94	74.00	-30.06	3	Horizontal	123	1.55	-
2480MHz	Pass	AV	2.4802G	76.00	Inf	-Inf	3	Vertical	275	1.05	-
2480MHz	Pass	AV	2.4836G	33.84	54.00	-20.16	3	Vertical	275	1.05	-
2480MHz	Pass	PK	2.4802G	98.50	Inf	-Inf	3	Vertical	275	1.05	-
2480MHz	Pass	PK	2.4836G	56.34	74.00	-17.66	3	Vertical	275	1.05	-
2480MHz	Pass	AV	2.4802G	84.80	Inf	-Inf	3	Horizontal	351	1.32	-
2480MHz	Pass	AV	2.4835G	37.62	54.00	-16.38	3	Horizontal	351	1.32	-
2480MHz	Pass	PK	2.4802G	107.30	Inf	-Inf	3	Horizontal	351	1.32	-
2480MHz	Pass	PK	2.4835G	60.12	74.00	-13.88	3	Horizontal	351	1.32	-
2480MHz	Pass	AV	4.95888G	22.01	54.00	-31.99	3	Vertical	360	2.97	-
2480MHz	Pass	PK	4.95888G	44.51	74.00	-29.49	3	Vertical	360	2.97	-
2480MHz	Pass	AV	4.96021G	22.15	54.00	-31.85	3	Horizontal	97	1.50	-
2480MHz	Pass	PK	4.96021G	44.65	74.00	-29.35	3	Horizontal	97	1.50	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3828G	33.63	54.00	-20.37	3	Vertical	281	1.10	-
2402MHz	Pass	AV	2.402G	72.33	Inf	-Inf	3	Vertical	281	1.10	-
2402MHz	Pass	PK	2.3828G	56.13	74.00	-17.87	3	Vertical	281	1.10	-
2402MHz	Pass	PK	2.402G	94.83	Inf	-Inf	3	Vertical	281	1.10	-
2402MHz	Pass	AV	2.3668G	33.75	54.00	-20.25	3	Horizontal	354	1.50	-
2402MHz	Pass	AV	2.402G	81.48	Inf	-Inf	3	Horizontal	354	1.50	-
2402MHz	Pass	PK	2.3668G	56.25	74.00	-17.75	3	Horizontal	354	1.50	-
2402MHz	Pass	PK	2.402G	103.98	Inf	-Inf	3	Horizontal	354	1.50	-
2402MHz	Pass	AV	4.80456G	21.58	54.00	-32.42	3	Vertical	137	1.50	-
2402MHz	Pass	PK	4.80456G	44.08	74.00	-29.92	3	Vertical	137	1.50	-
2402MHz	Pass	AV	4.80168G	21.04	54.00	-32.96	3	Horizontal	210	1.00	-
2402MHz	Pass	PK	4.80168G	43.54	74.00	-30.46	3	Horizontal	210	1.00	-
2440MHz	Pass	AV	2.3788G	33.56	54.00	-20.44	3	Vertical	273	1.05	-
2440MHz	Pass	AV	2.44G	71.79	Inf	-Inf	3	Vertical	273	1.05	-
2440MHz	Pass	AV	2.4912G	33.66	54.00	-20.34	3	Vertical	273	1.05	-
2440MHz	Pass	PK	2.3788G	56.06	74.00	-17.94	3	Vertical	273	1.05	-
2440MHz	Pass	PK	2.44G	94.29	Inf	-Inf	3	Vertical	273	1.05	-
2440MHz	Pass	PK	2.4912G	56.16	74.00	-17.84	3	Vertical	273	1.05	-
2440MHz	Pass	AV	2.3556G	33.77	54.00	-20.23	3	Horizontal	355	1.25	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.44G	79.89	Inf	-Inf	3	Horizontal	355	1.25	-
2440MHz	Pass	AV	2.4988G	33.90	54.00	-20.10	3	Horizontal	355	1.25	-
2440MHz	Pass	PK	2.3556G	56.27	74.00	-17.73	3	Horizontal	355	1.25	-
2440MHz	Pass	PK	2.44G	102.39	Inf	-Inf	3	Horizontal	355	1.25	-
2440MHz	Pass	PK	2.4988G	56.40	74.00	-17.60	3	Horizontal	355	1.25	-
2440MHz	Pass	AV	4.8781G	22.59	54.00	-31.41	3	Vertical	276	1.50	-
2440MHz	Pass	PK	4.8781G	45.09	74.00	-28.91	3	Vertical	276	1.50	-
2440MHz	Pass	AV	4.88149G	21.73	54.00	-32.27	3	Horizontal	190	1.00	-
2440MHz	Pass	PK	4.88149G	44.23	74.00	-29.77	3	Horizontal	190	1.00	-
2480MHz	Pass	AV	2.48G	73.46	Inf	-Inf	3	Vertical	271	1.14	-
2480MHz	Pass	AV	2.4835G	36.28	54.00	-17.72	3	Vertical	271	1.14	-
2480MHz	Pass	PK	2.48G	95.96	Inf	-Inf	3	Vertical	271	1.14	-
2480MHz	Pass	PK	2.4835G	58.78	74.00	-15.22	3	Vertical	271	1.14	-
2480MHz	Pass	AV	2.48G	82.20	Inf	-Inf	3	Horizontal	350	1.44	-
2480MHz	Pass	AV	2.4836G	41.72	54.00	-12.28	3	Horizontal	350	1.44	-
2480MHz	Pass	PK	2.48G	104.70	Inf	-Inf	3	Horizontal	350	1.44	-
2480MHz	Pass	PK	2.4836G	64.22	74.00	-9.78	3	Horizontal	350	1.44	-
2480MHz	Pass	AV	4.95828G	22.00	54.00	-32.00	3	Vertical	360	1.39	-
2480MHz	Pass	PK	4.95828G	44.50	74.00	-29.50	3	Vertical	360	1.39	-
2480MHz	Pass	AV	4.96213G	22.87	54.00	-31.13	3	Horizontal	1	1.50	-
2480MHz	Pass	PK	4.96213G	45.37	74.00	-28.63	3	Horizontal	1	1.50	-

BT-BR(1Mbps)

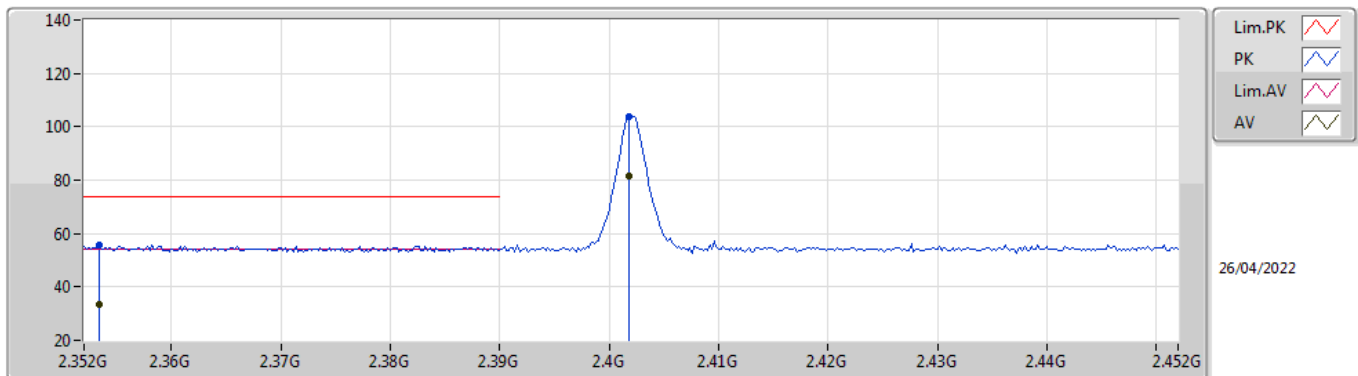
2402MHz_TX



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	2.3654G	33.36	54.00	-20.64	31.67	3	Vertical	267	1.29	-	1.69	27.33	4.34	-
AV	2.402G	71.10	Inf	-Inf	31.79	3	Vertical	267	1.29	-	39.31	27.41	4.38	-
PK	2.3654G	55.86	74.00	-18.14	31.67	3	Vertical	267	1.29	-	24.19	27.33	4.34	-
PK	2.402G	93.60	Inf	-Inf	31.79	3	Vertical	267	1.29	-	61.81	27.41	4.38	-

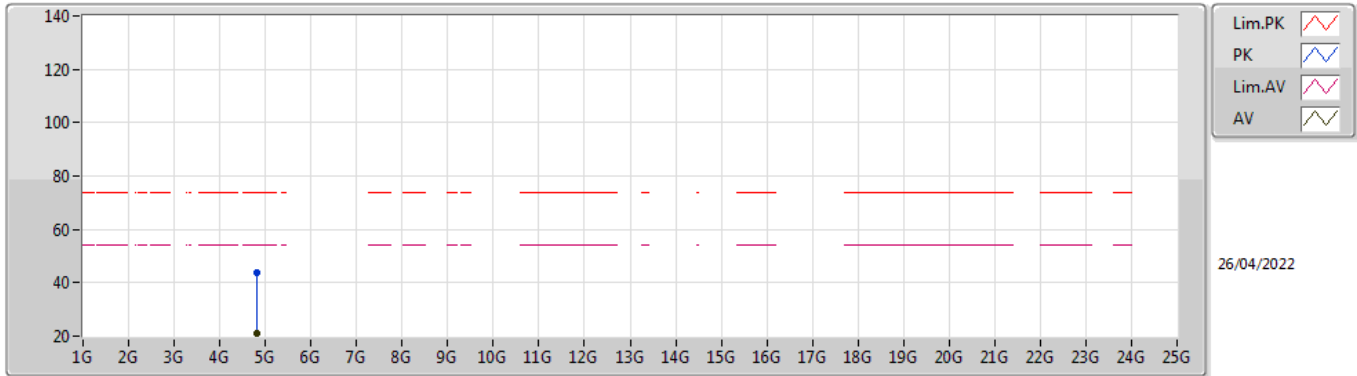
BT-BR(1Mbps)

2402MHz_TX



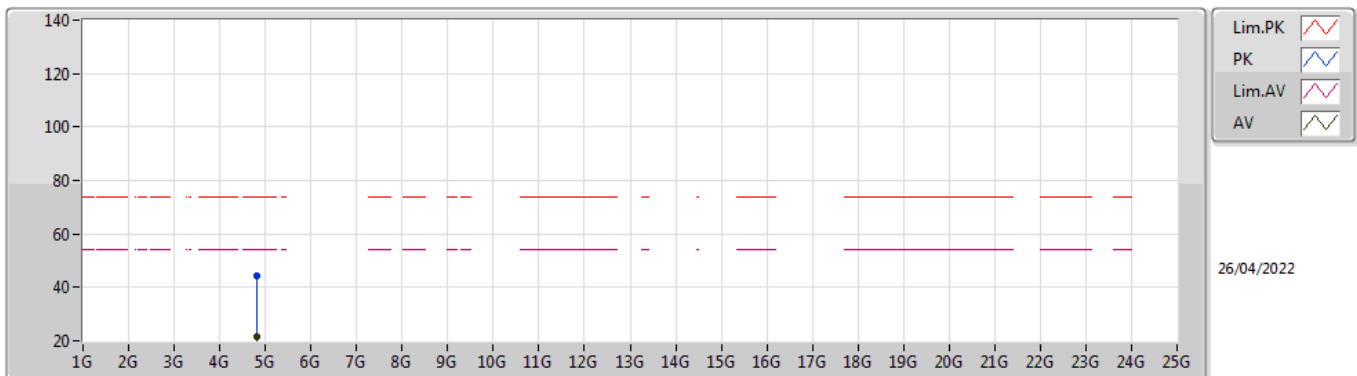
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3534G	33.22	54.00	-20.78	31.64	3	Horizontal	350	1.42	-	1.58	27.31	4.33	-
AV	2.4018G	81.49	Inf	-Inf	31.79	3	Horizontal	350	1.42	-	49.70	27.41	4.38	-
PK	2.3534G	55.72	74.00	-18.28	31.64	3	Horizontal	350	1.42	-	24.08	27.31	4.33	-
PK	2.4018G	103.99	Inf	-Inf	31.79	3	Horizontal	350	1.42	-	72.20	27.41	4.38	-

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	4.80198G	21.27	54.00	-32.73	4.32	3	Vertical	138	2.99	-	16.95	32.51	6.26	34.45
PK	4.80198G	43.77	74.00	-30.23	4.32	3	Vertical	138	2.99	-	39.45	32.51	6.26	34.45

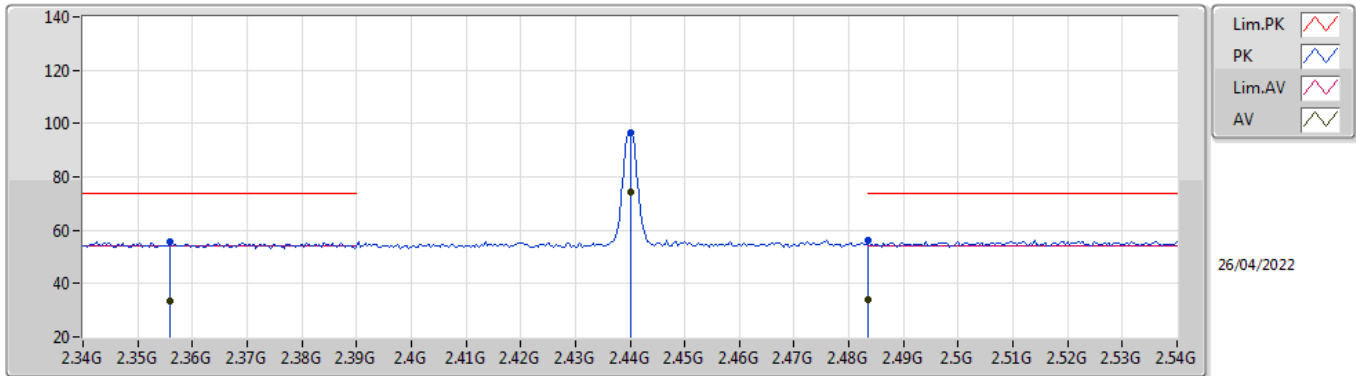
BT-BR(1Mbps)
2402MHz_TX



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	4.80256G	21.58	54.00	-32.42	4.32	3	Horizontal	138	2.99	-	17.26	32.51	6.26	34.45
PK	4.80256G	44.08	74.00	-29.92	4.32	3	Horizontal	138	2.99	-	39.76	32.51	6.26	34.45

BT-BR(1Mbps)

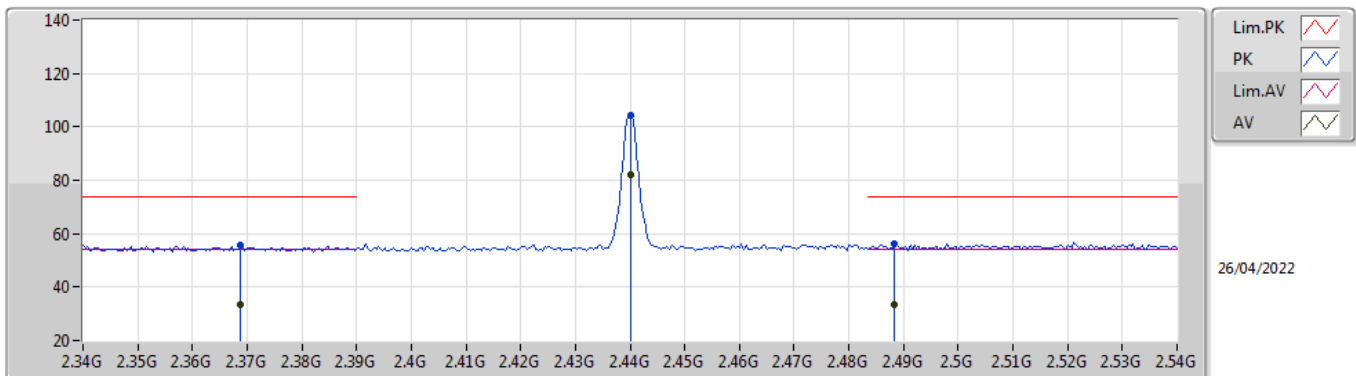
2440MHz_TX



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	2.356G	33.33	54.00	-20.67	31.64	3	Vertical	278	1.05	-	1.69	27.31	4.33	-
AV	2.44G	74.25	Inf	-Inf	32.00	3	Vertical	278	1.05	-	42.25	27.56	4.44	-
AV	2.4835G	33.81	54.00	-20.19	32.30	3	Vertical	278	1.05	-	1.51	27.80	4.50	-
PK	2.356G	55.83	74.00	-18.17	31.64	3	Vertical	278	1.05	-	24.19	27.31	4.33	-
PK	2.44G	96.75	Inf	-Inf	32.00	3	Vertical	278	1.05	-	64.75	27.56	4.44	-
PK	2.4835G	56.31	74.00	-17.69	32.30	3	Vertical	278	1.05	-	24.01	27.80	4.50	-

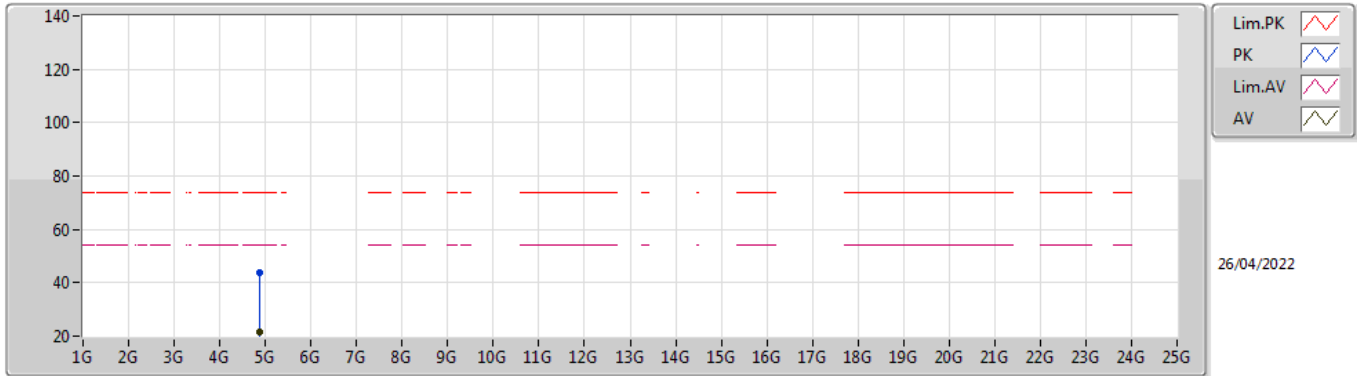
BT-BR(1Mbps)

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	2.3688G	33.31	54.00	-20.69	31.69	3	Horizontal	343	1.50	-	1.62	27.34	4.35	-
AV	2.44G	81.90	Inf	-Inf	32.00	3	Horizontal	343	1.50	-	49.90	27.56	4.44	-
AV	2.4884G	33.68	54.00	-20.32	32.34	3	Horizontal	343	1.50	-	1.34	27.83	4.51	-
PK	2.3688G	55.81	74.00	-18.19	31.69	3	Horizontal	343	1.50	-	24.12	27.34	4.35	-
PK	2.44G	104.40	Inf	-Inf	32.00	3	Horizontal	343	1.50	-	72.40	27.56	4.44	-
PK	2.4884G	56.18	74.00	-17.82	32.34	3	Horizontal	343	1.50	-	23.84	27.83	4.51	-

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	4.88218G	21.40	54.00	-22.93	4.63	3	Vertical	0	1.75	-	26.44	32.76	6.31	34.44
PK	4.88218G	43.90	74.00	-30.10	4.63	3	Vertical	0	1.75	-	39.27	32.76	6.31	34.44

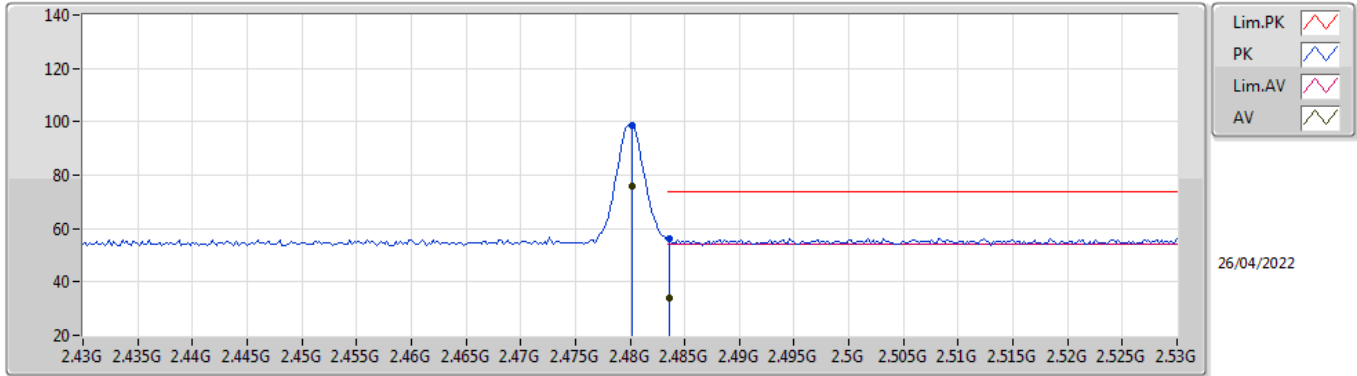
BT-BR(1Mbps)
2440MHz_TX



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	4.88067G	21.44	54.00	-22.83	4.63	3	Horizontal	123	1.55	-	26.54	32.76	6.31	34.44
PK	4.88067G	43.94	74.00	-30.06	4.63	3	Horizontal	123	1.55	-	39.31	32.76	6.31	34.44

BT-BR(1Mbps)

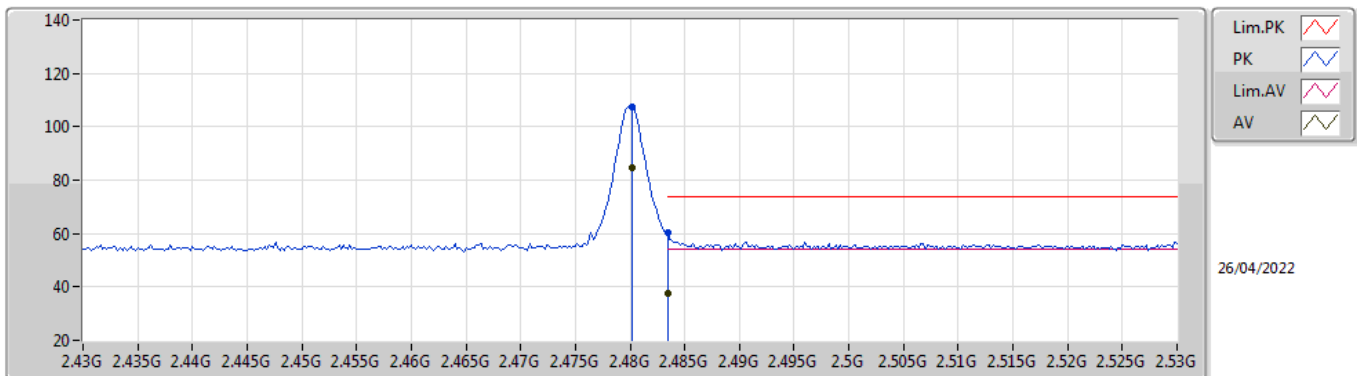
2480MHz_TX



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	2.4802G	76.00	Inf	-Inf	32.28	3	Vertical	275	1.05	-	43.72	27.78	4.50	-
AV	2.4836G	33.84	54.00	-20.16	32.30	3	Vertical	275	1.05	-	1.54	27.80	4.50	-
PK	2.4802G	98.50	Inf	-Inf	32.28	3	Vertical	275	1.05	-	66.22	27.78	4.50	-
PK	2.4836G	56.34	74.00	-17.66	32.30	3	Vertical	275	1.05	-	24.04	27.80	4.50	-

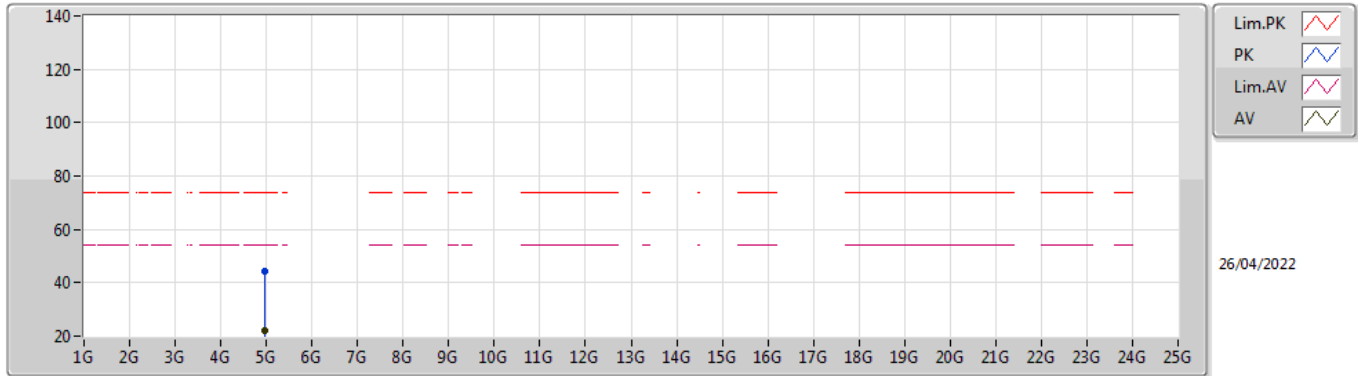
BT-BR(1Mbps)

2480MHz_TX



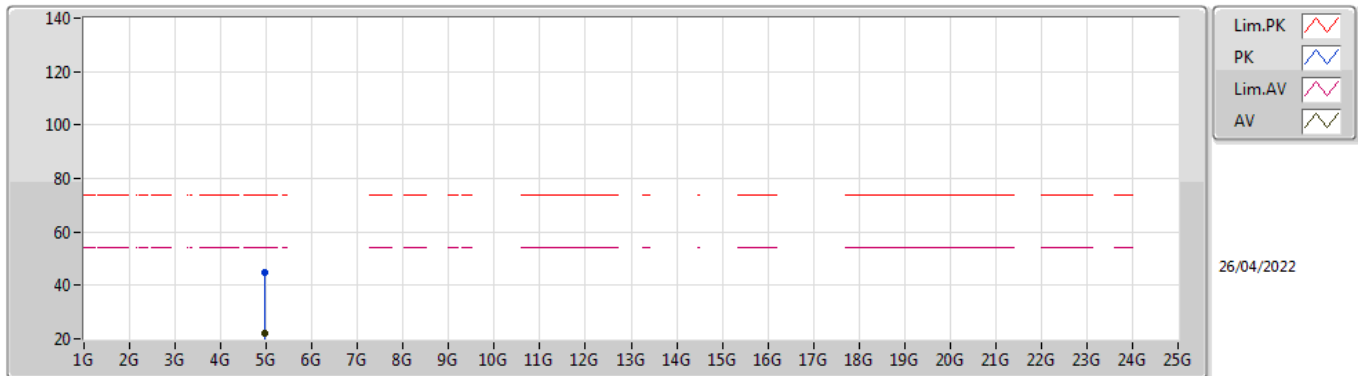
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4802G	84.80	Inf	-Inf	32.28	3	Horizontal	351	1.32	-	52.52	27.78	4.50	-
AV	2.4835G	37.62	54.00	-16.38	32.30	3	Horizontal	351	1.32	-	5.32	27.80	4.50	-
PK	2.4802G	107.30	Inf	-Inf	32.28	3	Horizontal	351	1.32	-	75.02	27.78	4.50	-
PK	2.4835G	60.12	74.00	-13.88	32.30	3	Horizontal	351	1.32	-	27.82	27.80	4.50	-

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	4.95888G	22.01	54.00	-31.99	5.07	3	Vertical	360	2.97	-	16.94	33.14	6.36	34.43
PK	4.95888G	44.51	74.00	-29.49	5.07	3	Vertical	360	2.97	-	39.44	33.14	6.36	34.43

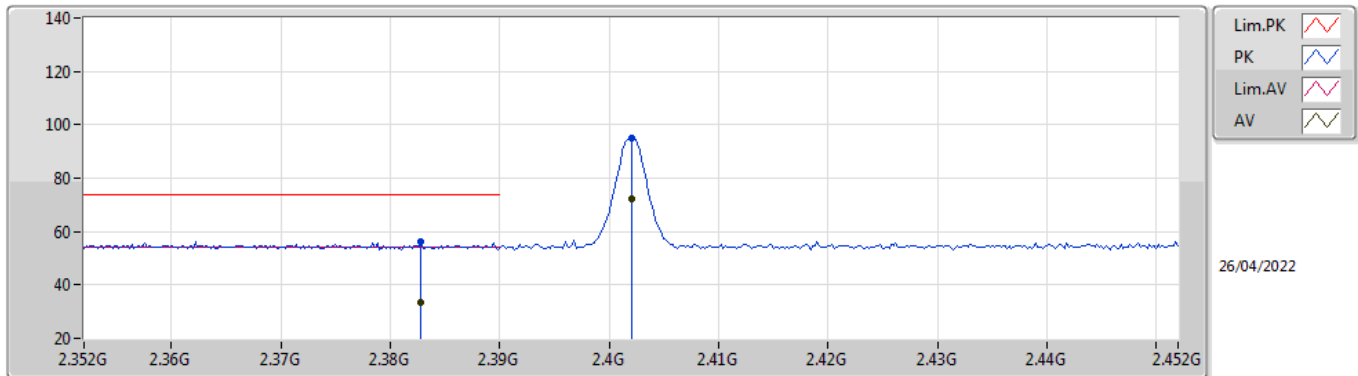
BT-BR(1Mbps)
2480MHz_TX



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	4.96021G	22.15	54.00	-31.85	5.07	3	Horizontal	97	1.50	-	17.08	33.14	6.36	34.43
PK	4.96021G	44.65	74.00	-29.35	5.07	3	Horizontal	97	1.50	-	39.58	33.14	6.36	34.43

BT-EDR(3Mbps)

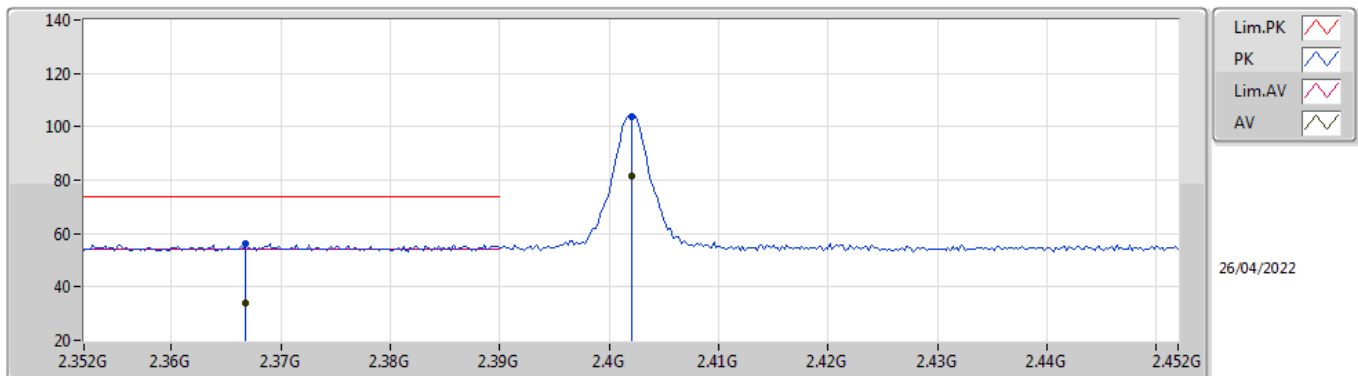
2402MHz_TX



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	2.3828G	33.63	54.00	-20.37	31.73	3	Vertical	281	1.10	-	1.90	27.37	4.36	-
AV	2.402G	72.33	Inf	-Inf	31.79	3	Vertical	281	1.10	-	40.54	27.41	4.38	-
PK	2.3828G	56.13	74.00	-17.87	31.73	3	Vertical	281	1.10	-	24.40	27.37	4.36	-
PK	2.402G	94.83	Inf	-Inf	31.79	3	Vertical	281	1.10	-	63.04	27.41	4.38	-

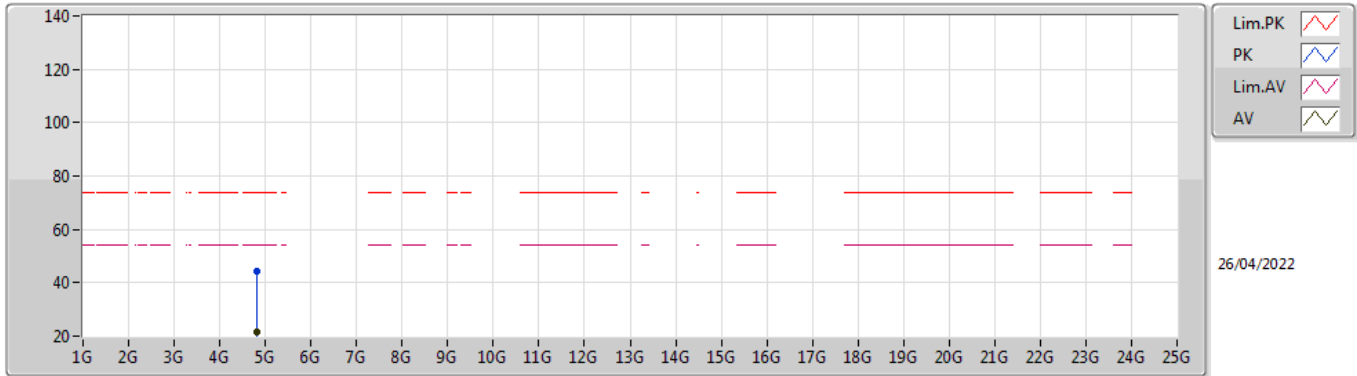
BT-EDR(3Mbps)

2402MHz_TX



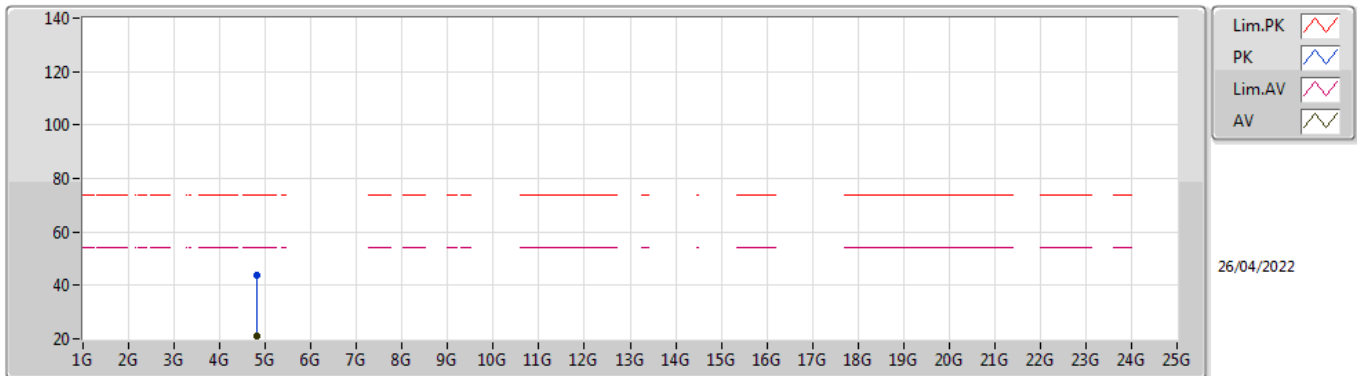
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3668G	33.75	54.00	-20.25	31.68	3	Horizontal	354	1.50	-	2.07	27.33	4.35	-
AV	2.402G	81.48	Inf	-Inf	31.79	3	Horizontal	354	1.50	-	49.69	27.41	4.38	-
PK	2.3668G	56.25	74.00	-17.75	31.68	3	Horizontal	354	1.50	-	24.57	27.33	4.35	-
PK	2.402G	103.98	Inf	-Inf	31.79	3	Horizontal	354	1.50	-	72.19	27.41	4.38	-

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	4.80456G	21.58	54.00	-32.42	4.33	3	Vertical	137	1.50	-	17.25	32.52	6.26	34.45
PK	4.80456G	44.08	74.00	-29.92	4.33	3	Vertical	137	1.50	-	39.75	32.52	6.26	34.45

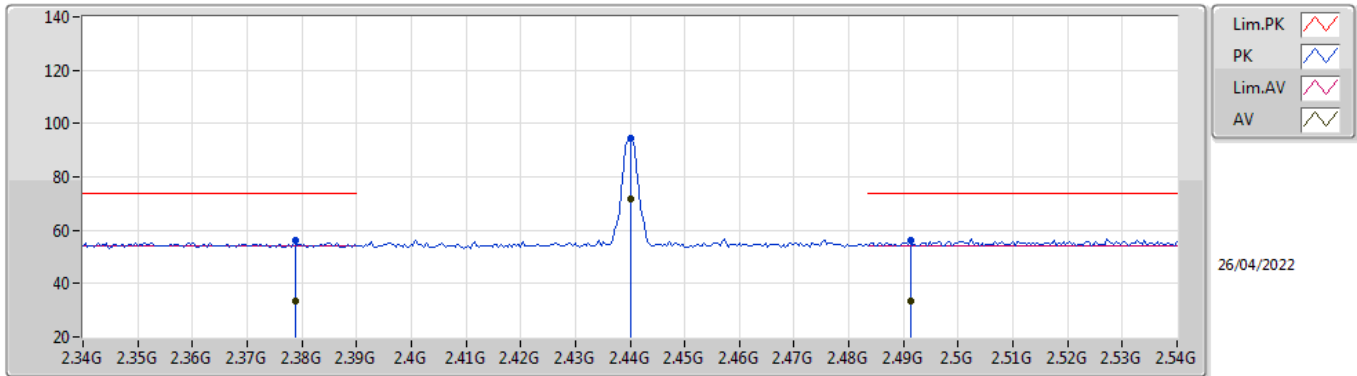
BT-EDR(3Mbps)
2402MHz_TX



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	4.80168G	21.04	54.00	-32.96	4.32	3	Horizontal	210	1.00	-	16.72	32.51	6.26	34.45
PK	4.80168G	43.54	74.00	-30.46	4.32	3	Horizontal	210	1.00	-	39.22	32.51	6.26	34.45

BT-EDR(3Mbps)

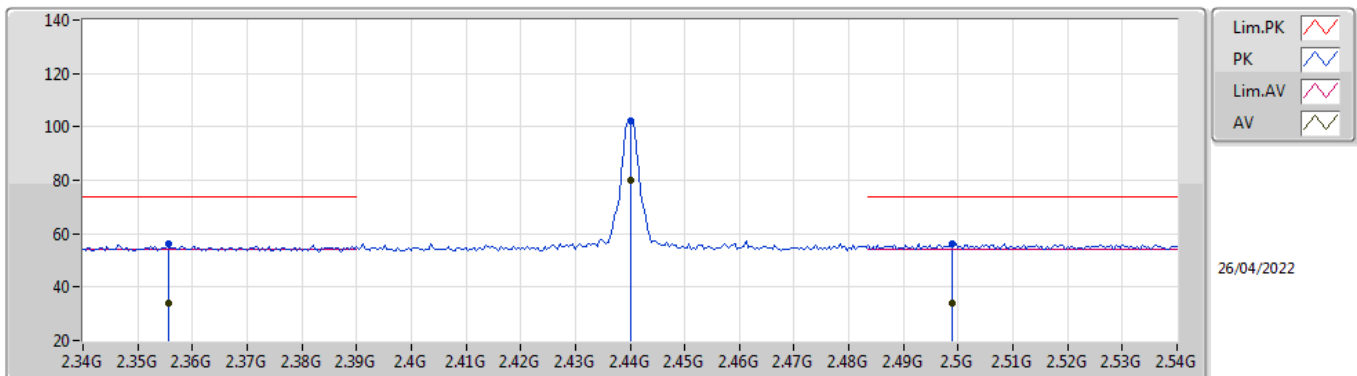
2440MHz_TX



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	2.3788G	33.56	54.00	-20.44	31.72	3	Vertical	273	1.05	-	1.84	27.36	4.36	-
AV	2.44G	71.79	Inf	-Inf	32.00	3	Vertical	273	1.05	-	39.79	27.56	4.44	-
AV	2.4912G	33.66	54.00	-20.34	32.36	3	Vertical	273	1.05	-	1.30	27.85	4.51	-
PK	2.3788G	56.06	74.00	-17.94	31.72	3	Vertical	273	1.05	-	24.34	27.36	4.36	-
PK	2.44G	94.29	Inf	-Inf	32.00	3	Vertical	273	1.05	-	62.29	27.56	4.44	-
PK	2.4912G	56.16	74.00	-17.84	32.36	3	Vertical	273	1.05	-	23.80	27.85	4.51	-

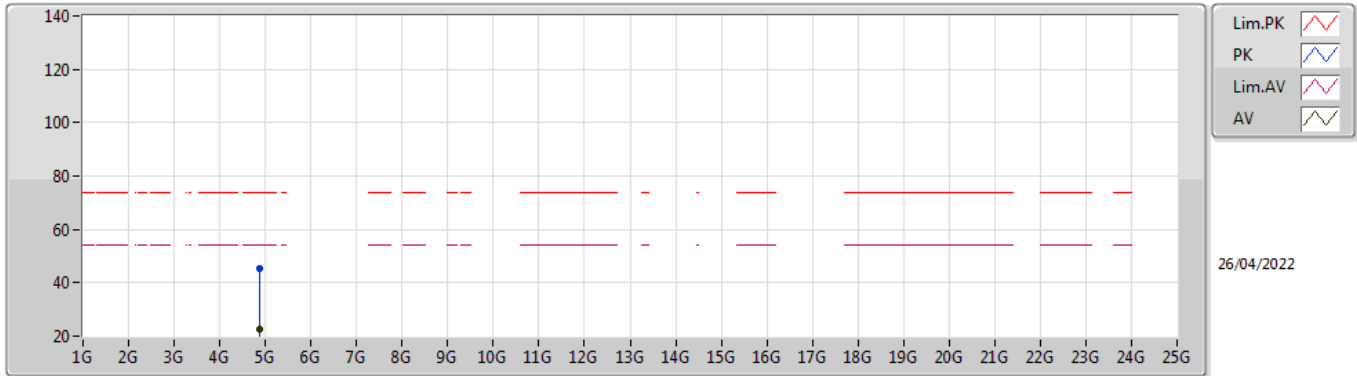
BT-EDR(3Mbps)

2440MHz_TX



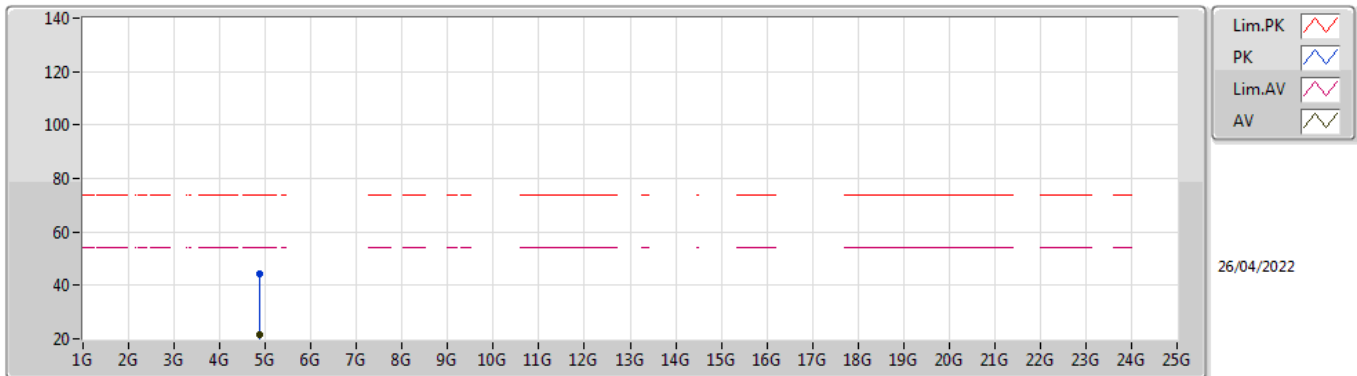
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AV	2.3556G	33.77	54.00	-20.23	31.64	3	Horizontal	355	1.25	-	2.13	27.31	4.33	-
AV	2.44G	79.89	Inf	-Inf	32.00	3	Horizontal	355	1.25	-	47.89	27.56	4.44	-
AV	2.4988G	33.90	54.00	-20.10	32.41	3	Horizontal	355	1.25	-	1.49	27.89	4.52	-
PK	2.3556G	56.27	74.00	-17.73	31.64	3	Horizontal	355	1.25	-	24.63	27.31	4.33	-
PK	2.44G	102.39	Inf	-Inf	32.00	3	Horizontal	355	1.25	-	70.39	27.56	4.44	-
PK	2.4988G	56.40	74.00	-17.60	32.41	3	Horizontal	355	1.25	-	23.99	27.89	4.52	-

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	4.8781G	22.59	54.00	-31.41	4.63	3	Vertical	276	1.50	-	17.96	32.76	6.31	34.44
PK	4.8781G	45.09	74.00	-28.91	4.63	3	Vertical	276	1.50	-	40.46	32.76	6.31	34.44

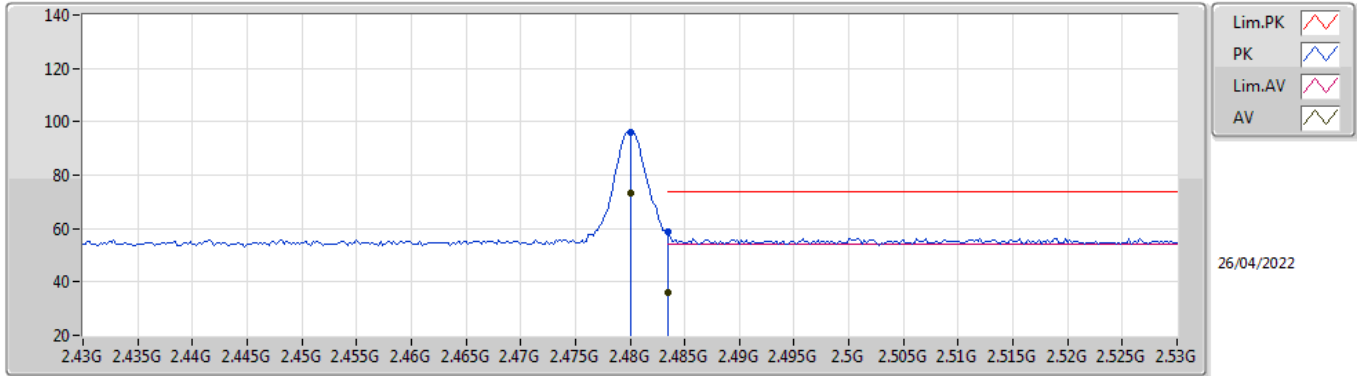
BT-EDR(3Mbps)
2440MHz_TX



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	4.88149G	21.73	54.00	-32.27	4.63	3	Horizontal	190	1.00	-	17.10	32.76	6.31	34.44
PK	4.88149G	44.23	74.00	-29.77	4.63	3	Horizontal	190	1.00	-	39.60	32.76	6.31	34.44

BT-EDR(3Mbps)

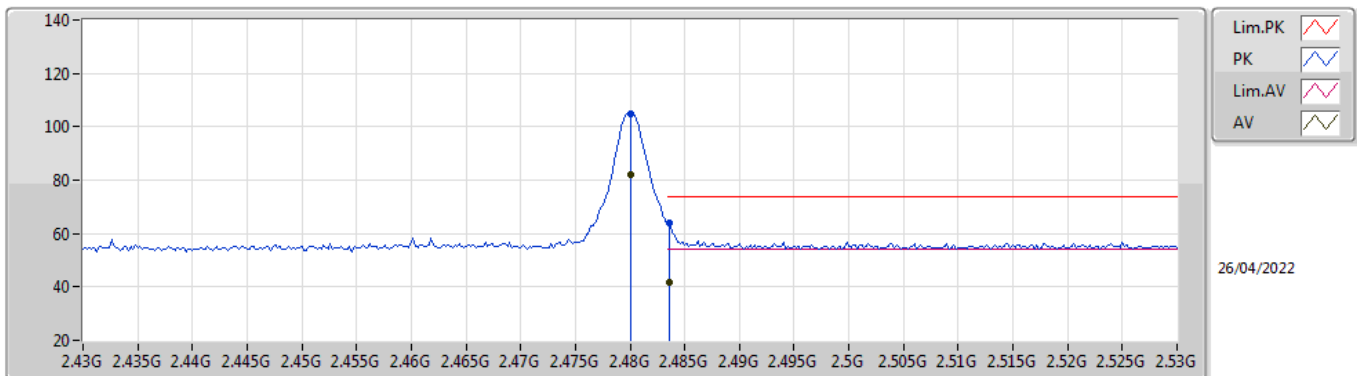
2480MHz_TX



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	73.46	Inf	-Inf	32.28	3	Vertical	271	1.14	-	41.18	27.78	4.50	-
AV	2.4835G	36.28	54.00	-17.72	32.30	3	Vertical	271	1.14	-	3.98	27.80	4.50	-
PK	2.48G	95.96	Inf	-Inf	32.28	3	Vertical	271	1.14	-	63.68	27.78	4.50	-
PK	2.4835G	58.78	74.00	-15.22	32.30	3	Vertical	271	1.14	-	26.48	27.80	4.50	-

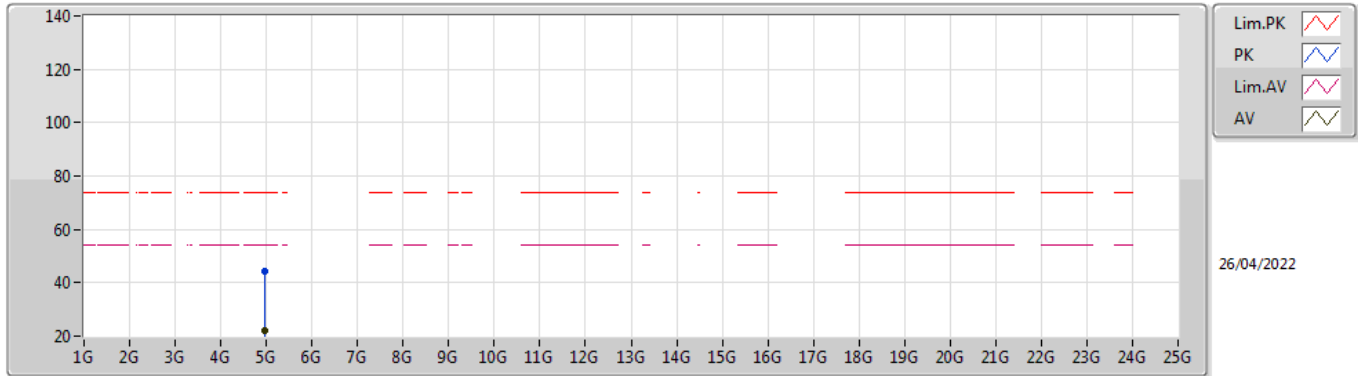
BT-EDR(3Mbps)

2480MHz_TX



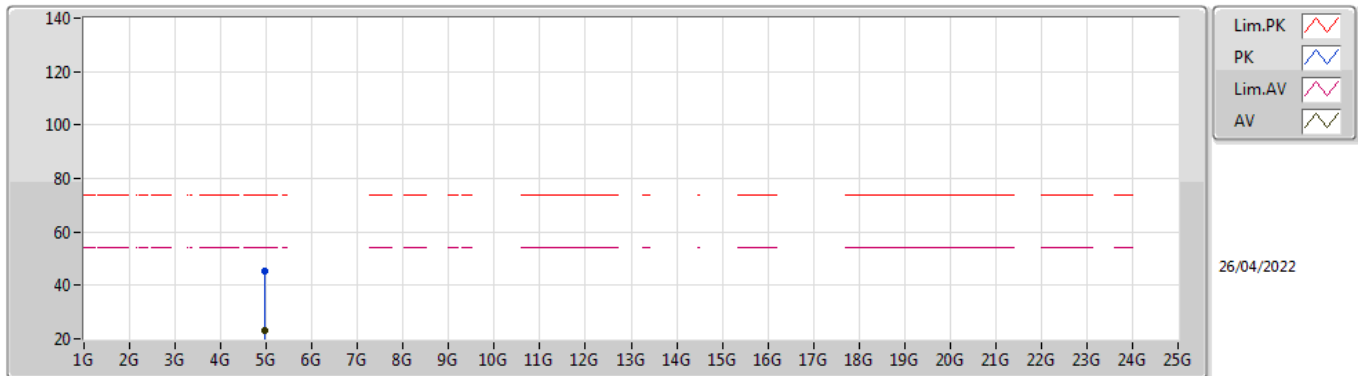
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	82.20	Inf	-Inf	32.28	3	Horizontal	350	1.44	-	49.92	27.78	4.50	-
AV	2.4836G	41.72	54.00	-12.28	32.30	3	Horizontal	350	1.44	-	9.42	27.80	4.50	-
PK	2.48G	104.70	Inf	-Inf	32.28	3	Horizontal	350	1.44	-	72.42	27.78	4.50	-
PK	2.4836G	64.22	74.00	-9.78	32.30	3	Horizontal	350	1.44	-	31.92	27.80	4.50	-

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	4.95828G	22.00	54.00	-32.00	5.05	3	Vertical	360	1.39	-	16.95	33.13	6.35	34.43
PK	4.95828G	44.50	74.00	-29.50	5.05	3	Vertical	360	1.39	-	39.45	33.13	6.35	34.43

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	4.96213G	22.87	54.00	-31.13	5.08	3	Horizontal	1	1.50	-	17.79	33.15	6.36	34.43
PK	4.96213G	45.37	74.00	-28.63	5.08	3	Horizontal	1	1.50	-	40.29	33.15	6.36	34.43



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	62.98M	32.36	40.00	-7.64	3	Vertical	0	1.00	-

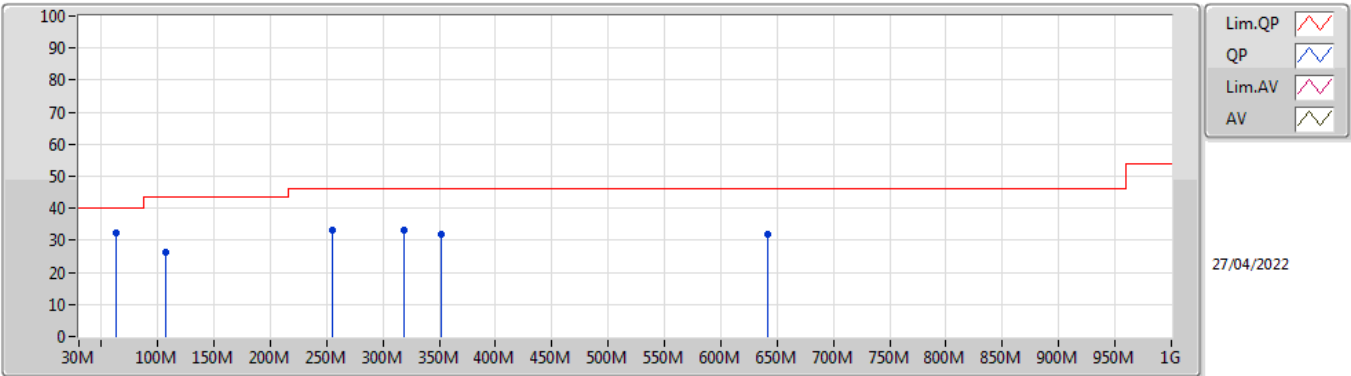


Result

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	62.98M	32.36	40.00	-7.64	3	Vertical	0	1.00	-
2440MHz	Pass	PK	107.6M	26.38	43.50	-17.12	3	Vertical	0	1.00	-
2440MHz	Pass	PK	255.04M	33.19	46.00	-12.81	3	Vertical	0	1.00	-
2440MHz	Pass	PK	319.06M	33.38	46.00	-12.62	3	Vertical	0	1.00	-
2440MHz	Pass	PK	352.04M	31.81	46.00	-14.19	3	Vertical	0	1.00	-
2440MHz	Pass	PK	641.1M	32.08	46.00	-13.92	3	Vertical	0	1.00	-
2440MHz	Pass	PK	62.98M	30.23	40.00	-9.77	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	107.6M	24.50	43.50	-19.00	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	288.02M	35.55	46.00	-10.45	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	319.06M	33.36	46.00	-12.64	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	400.54M	30.74	46.00	-15.26	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	511.12M	29.40	46.00	-16.60	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	34.662k	58.35	116.79	-58.44	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	47.634k	50.98	114.03	-63.05	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	104.034k	42.11	107.25	-65.14	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	2.359M	49.24	69.50	-20.26	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	3.374M	41.40	69.50	-28.10	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	25.164M	39.61	69.50	-29.89	3	Horizontal	360	1.00	-

BT-BR(1Mbps)

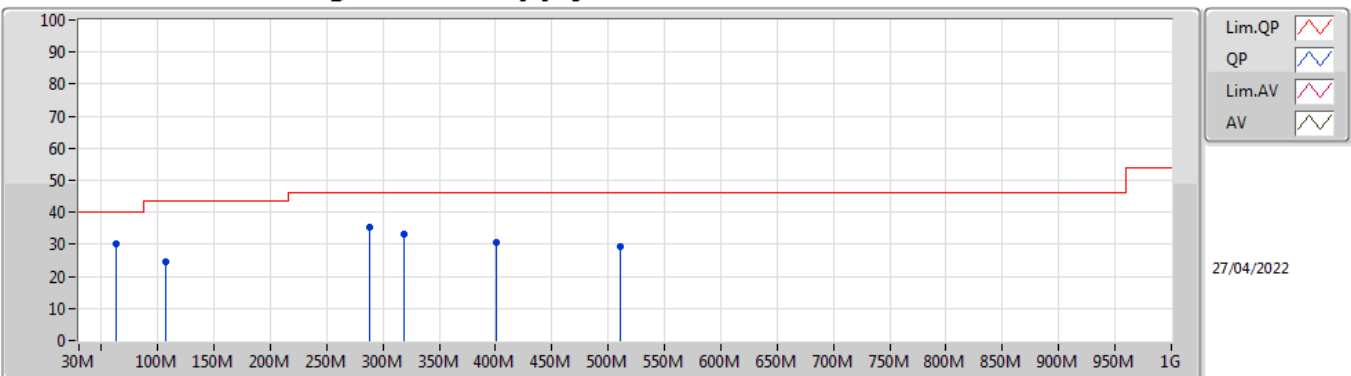
2440MHz_Switching Power Supply



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	62.98M	32.36	40.00	-7.64	-14.62	3	Vertical	0	1.00	-	46.98	11.57	1.29	27.48
PK	107.6M	26.38	43.50	-17.12	-8.79	3	Vertical	0	1.00	-	35.17	16.83	1.70	27.32
PK	255.04M	33.19	46.00	-12.81	-5.89	3	Vertical	0	1.00	-	39.08	18.12	2.66	26.67
PK	319.06M	33.38	46.00	-12.62	-4.96	3	Vertical	0	1.00	-	38.34	18.75	3.00	26.71
PK	352.04M	31.81	46.00	-14.19	-4.15	3	Vertical	0	1.00	-	35.96	19.57	3.15	26.87
PK	641.1M	32.08	46.00	-13.92	0.39	3	Vertical	0	1.00	-	31.69	24.05	4.36	28.02

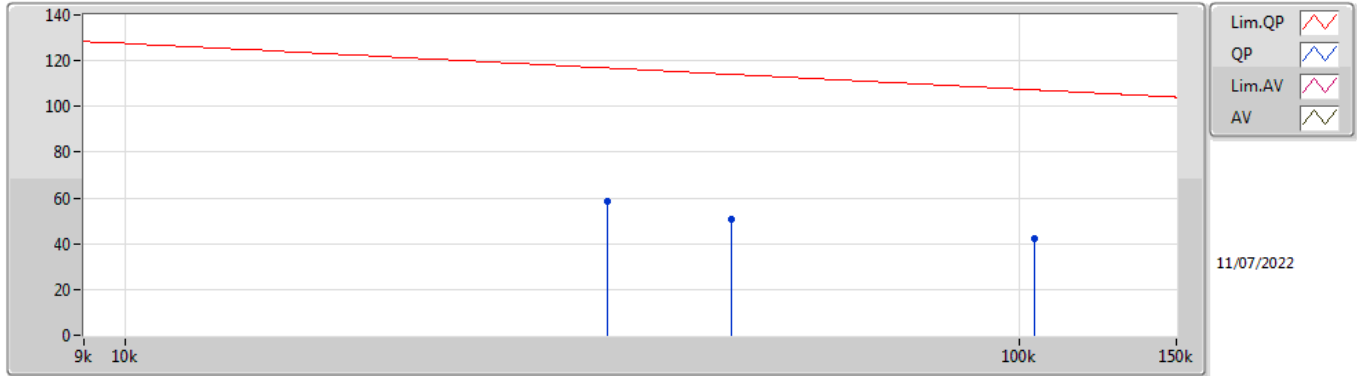
BT-BR(1Mbps)

2440MHz_Switching Power Supply



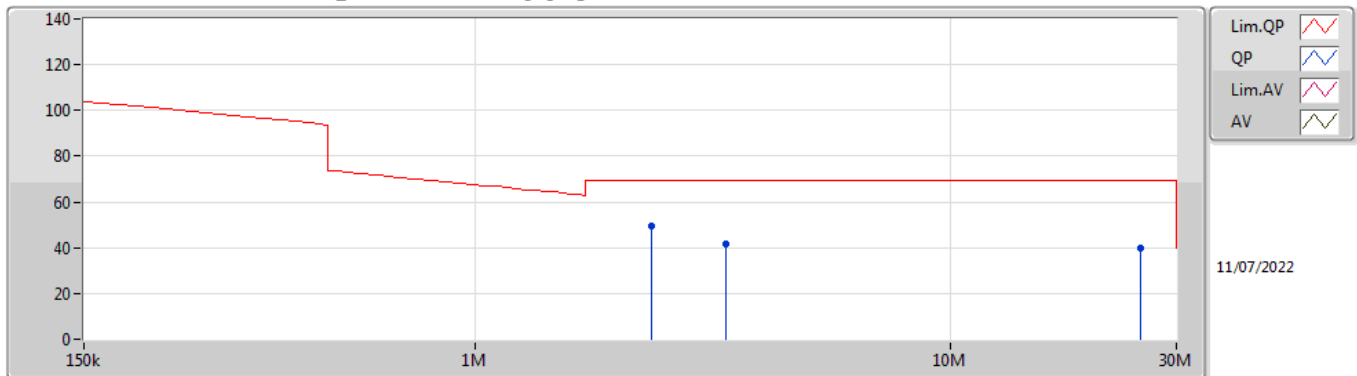
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	62.98M	30.23	40.00	-9.77	-14.62	3	Horizontal	360	1.00	-	44.85	11.57	1.29	27.48
PK	107.6M	24.50	43.50	-19.00	-8.79	3	Horizontal	360	1.00	-	33.29	16.83	1.70	27.32
PK	288.02M	35.55	46.00	-10.45	-5.79	3	Horizontal	360	1.00	-	41.34	17.99	2.85	26.63
PK	319.06M	33.36	46.00	-12.64	-4.96	3	Horizontal	360	1.00	-	38.32	18.75	3.00	26.71
PK	400.54M	30.74	46.00	-15.26	-2.79	3	Horizontal	360	1.00	-	33.53	21.02	3.38	27.19
PK	511.12M	29.40	46.00	-16.60	-1.17	3	Horizontal	360	1.00	-	30.57	22.80	3.85	27.82

BT-BR(1Mbps)
2440MHz_Switching Power Supply



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	34.662k	58.35	116.79	-58.44	21.40	3	Horizontal	0	1.00	-	36.95	21.37	0.03	-
PK	47.634k	50.98	114.03	-63.05	20.92	3	Horizontal	0	1.00	-	30.06	20.88	0.04	-
PK	104.034k	42.11	107.25	-65.14	19.76	3	Horizontal	0	1.00	-	22.35	19.72	0.04	-

BT-BR(1Mbps)
2440MHz_Switching Power Supply



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	2.359M	49.24	69.50	-20.26	19.93	3	Horizontal	360	1.00	-	29.31	19.75	0.18	-
PK	3.374M	41.40	69.50	-28.10	19.97	3	Horizontal	360	1.00	-	21.43	19.76	0.21	-
PK	25.164M	39.61	69.50	-29.89	23.87	3	Horizontal	360	1.00	-	15.74	23.21	0.66	-