

FCC Radio Test Report

FCC ID : 2A2CA-A8888
Equipment : 2.1 multimedia speaker system
Brand Name : KC
Model Name : SUB-2.1
Applicant : DONGGUAN KOON CHEUNG PLASTIC & ELECTRONIC.LTD
3rd INDUSTRY DISTRICT,QING XI TOWN,DONGGUANCITY,GUANGDONG,CHINA
Manufacturer : DONGGUAN KOON CHEUNG PLASTIC & ELECTRONIC.LTD
3rd INDUSTRY DISTRICT,QING XI TOWN,DONGGUANCITY,GUANGDONG,CHINA
Standard : 47 CFR FCC Part 15.247

The product was received on May 06, 2021, and testing was started from Jul. 12, 2021 and completed on Jul. 30, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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PHOTOGRAPHS OF EUT V01



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: Sam Tsai
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	Gain (dBi)
1	Anaccord	AntennaSUB-2.1	PCB Antenna	N/A	1.7

Note 1: The EUT has one antenna.

For BT function:

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

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

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) $\geq 1/T$
BT-BR(1Mbps)	0.774	1.11	2.902m	1k
BT-EDR(2Mbps)	0.776	1.1	2.909m	1k
BT-EDR(3Mbps)	0.776	1.1	2.911m	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	Vivi Jiang	20.1~22.1°C / 50~54%	13/Jul/2021
RF Conducted	TH01-HY	Vivi Jiang	20.1~24.6°C / 50~57%	12/Jul/2021~30/Jul/2021
Radiated	03CH03-HY	Tony Chang	22.7~23.5°C / 50~53%	12/Jul/2021
<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	BT_Tool V1.0.9
Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7
BT-EDR(2Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7
BT-EDR(3Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7

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

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 type="checkbox"/> adaptive frequency hopping systems (AFH)

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
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Z Plane
	



2.3 Accessories

Accessories				
BT Controller	Brand Name	Anaccord	Model Name	BT Controller
speaker*2	Brand Name	Anaccord	Model Name	speaker
power cable	Brand Name	GDSZNF	Model Name	NF-006+NF007
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		

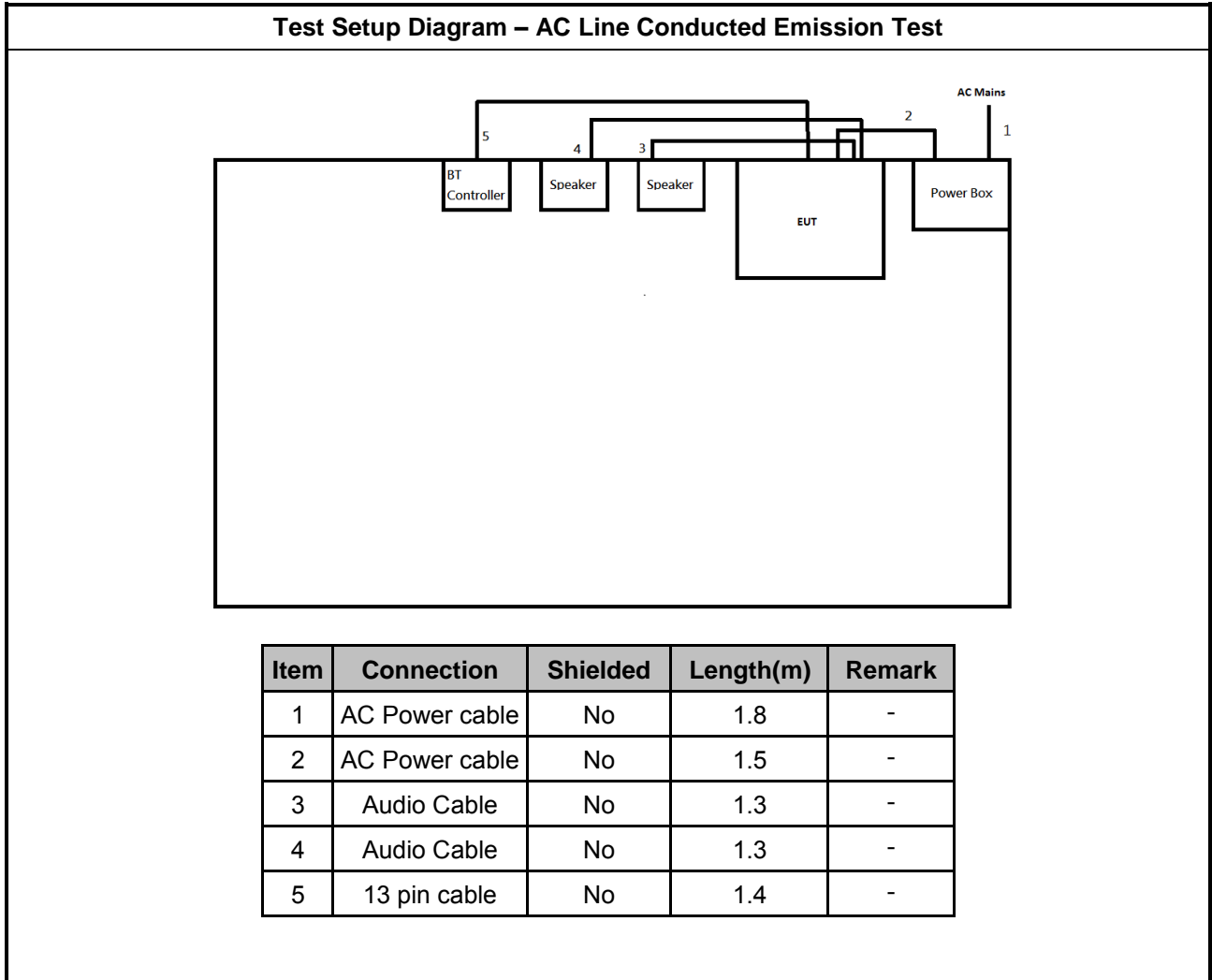
Reminder: Regarding to more detail and other information, please refer to user manual.

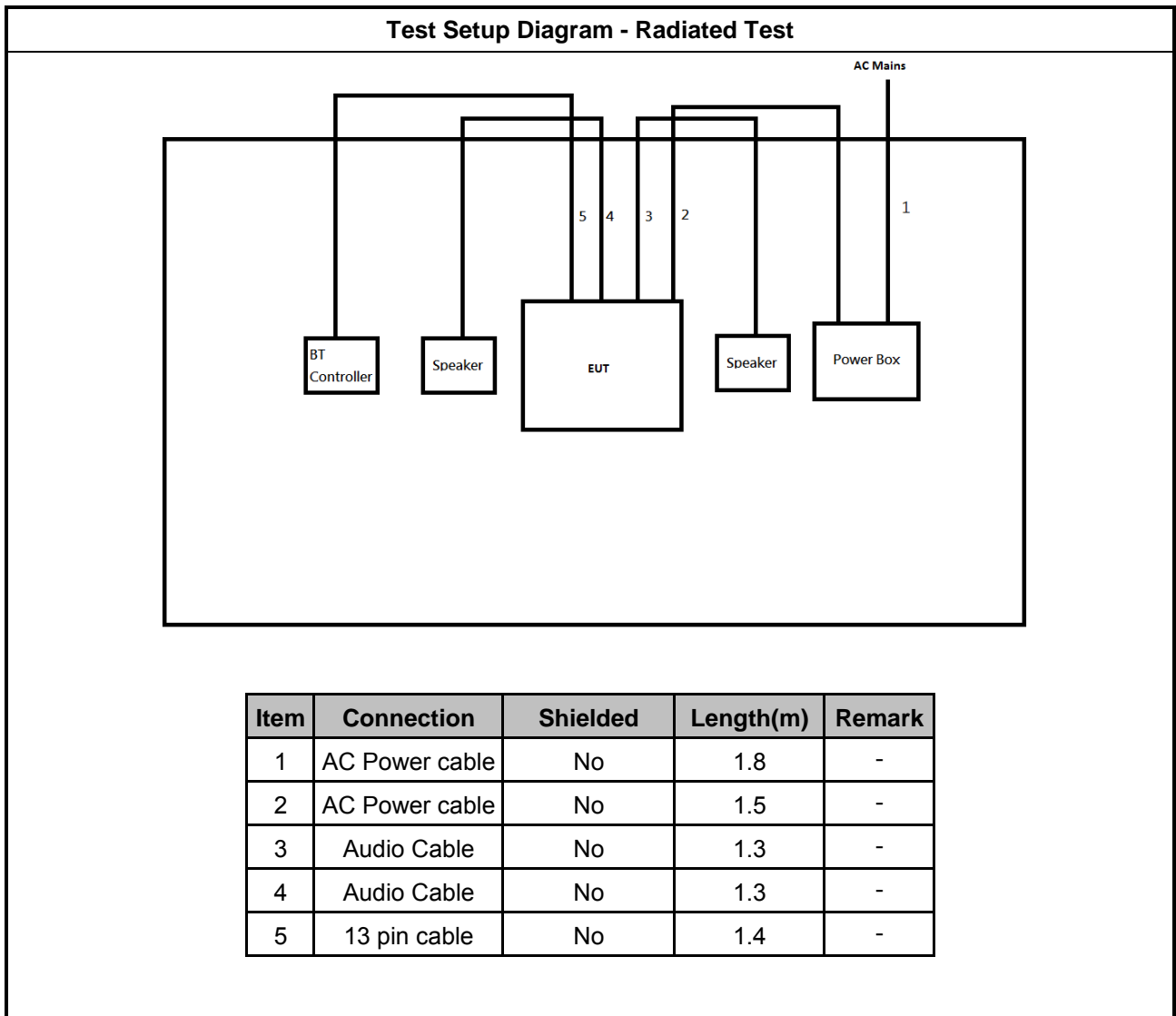
2.4 Support Equipment

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

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC power cable	Power sync	PW-GPC180-3	-	-

2.5 Test Setup Diagram





3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

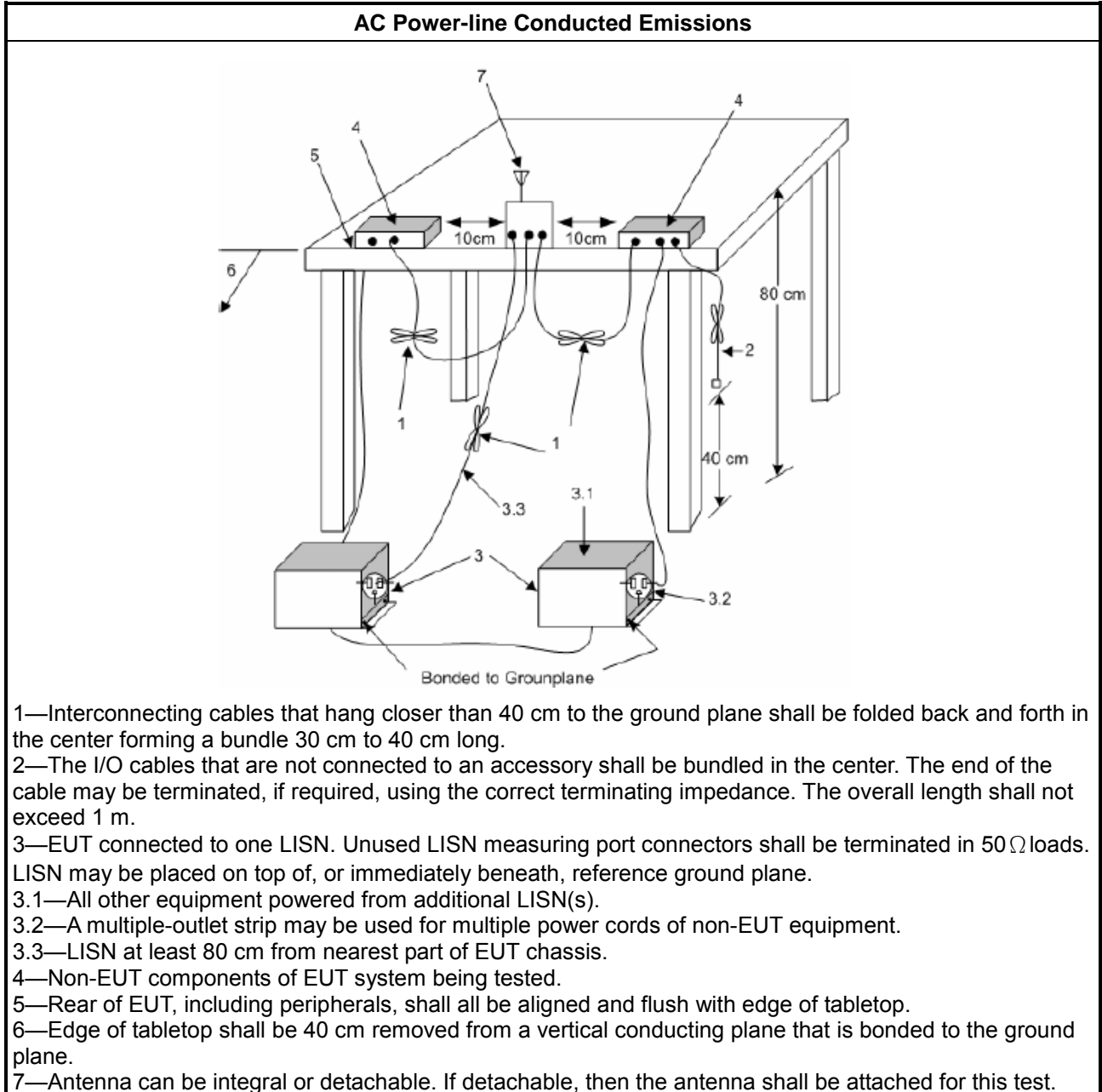
Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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	

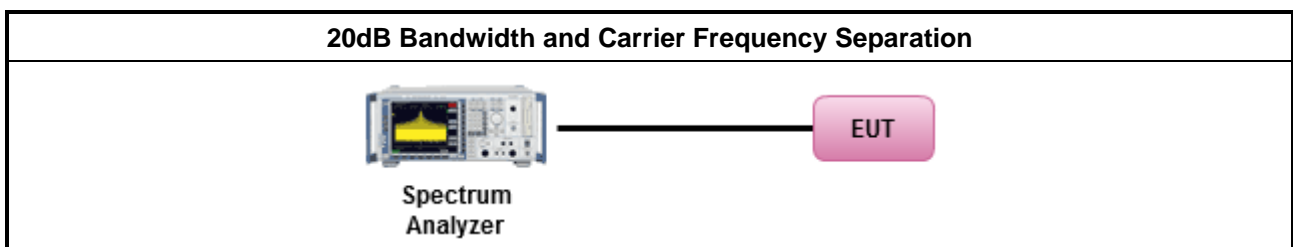
3.2.2 Measuring Instruments

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	

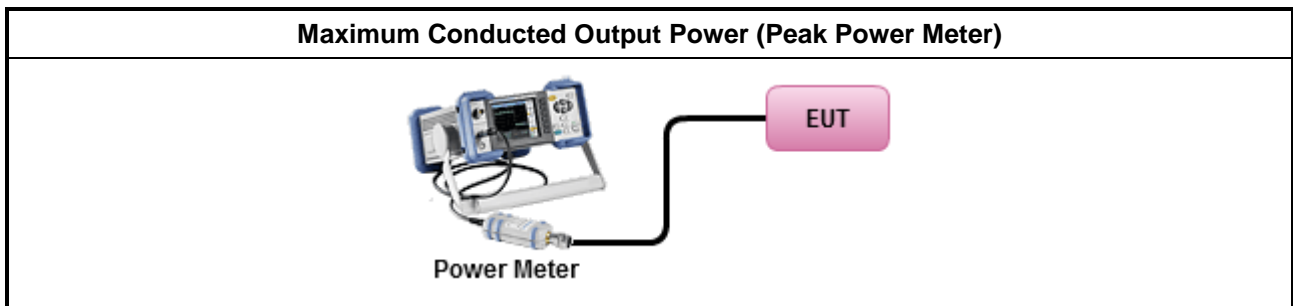
3.3.2 Measuring Instruments

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

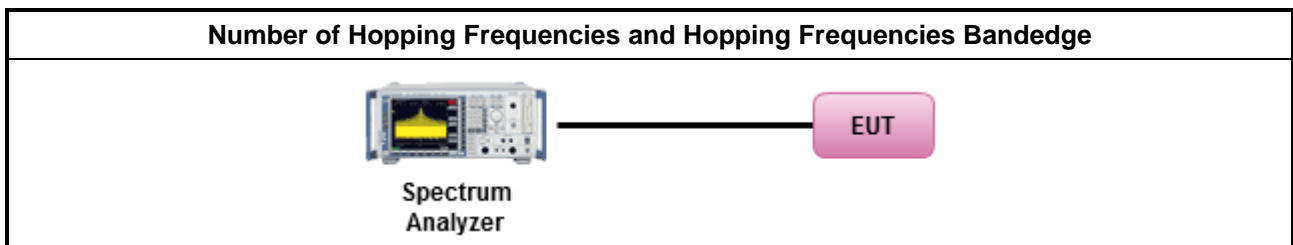
3.4.3 Measuring Instruments

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	

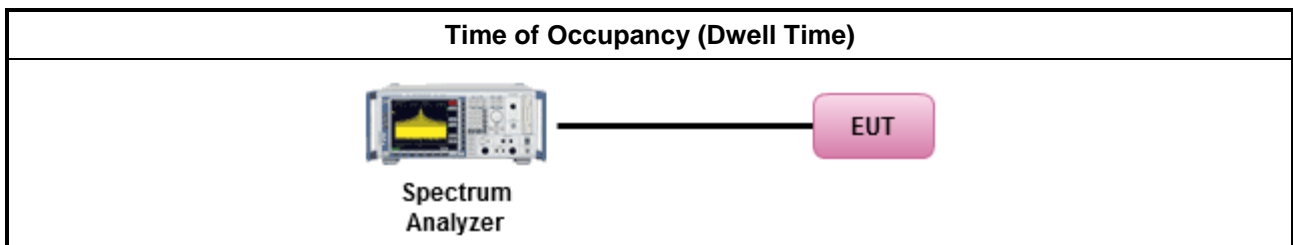
3.5.2 Measuring Instruments

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.	

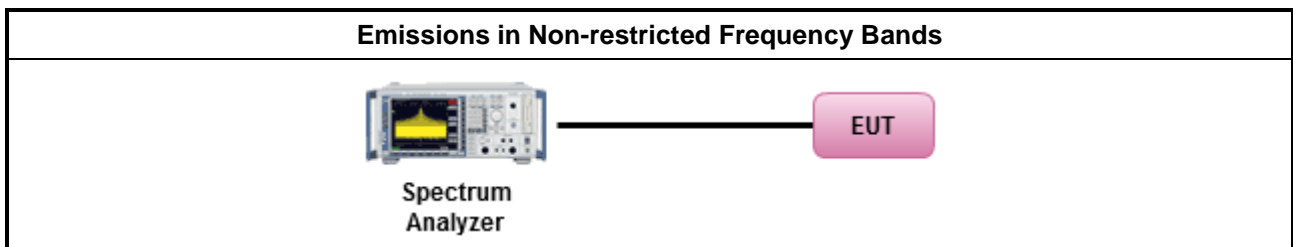
3.6.2 Measuring Instruments

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 Test Procedures

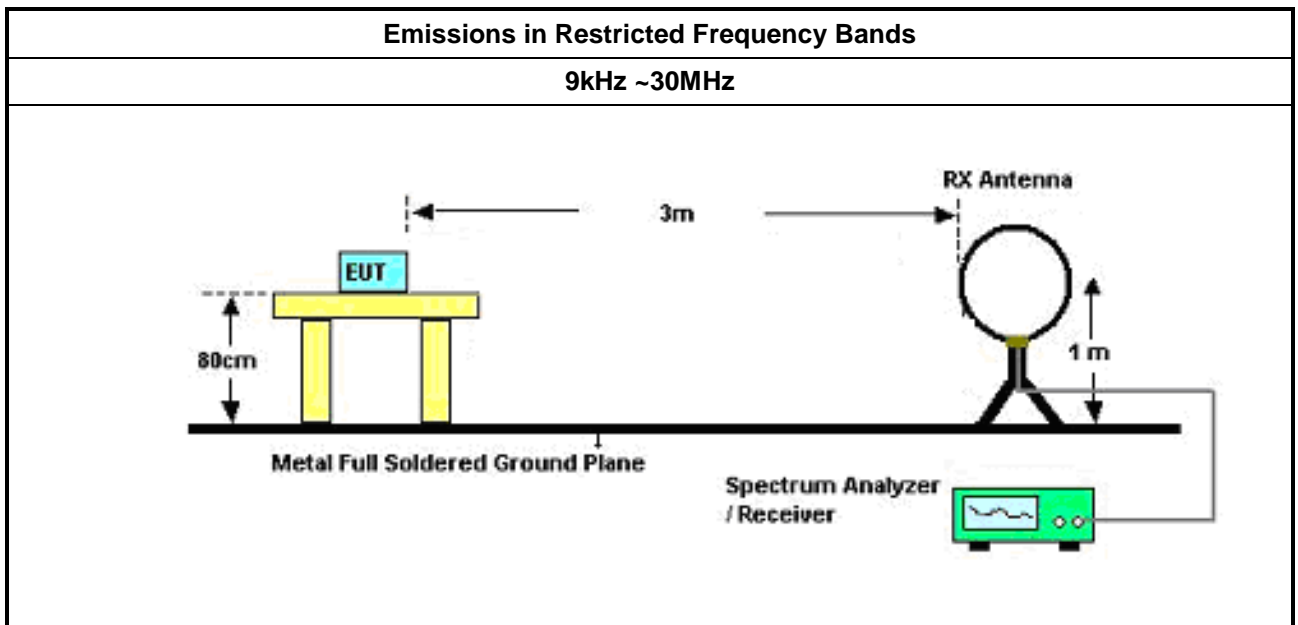
Test Method	
<ul style="list-style-type: none"> The average emission levels shall be measured in [hopping duty factor]. 	
<ul style="list-style-type: none"> Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. 	
<ul style="list-style-type: none"> For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	<ul style="list-style-type: none"> Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.
<ul style="list-style-type: none"> KDB 414788 Open-Field Test Sites and Chamber Correlation Justification. 	
<ul style="list-style-type: none"> 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. 	
<ul style="list-style-type: none"> Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result. 	

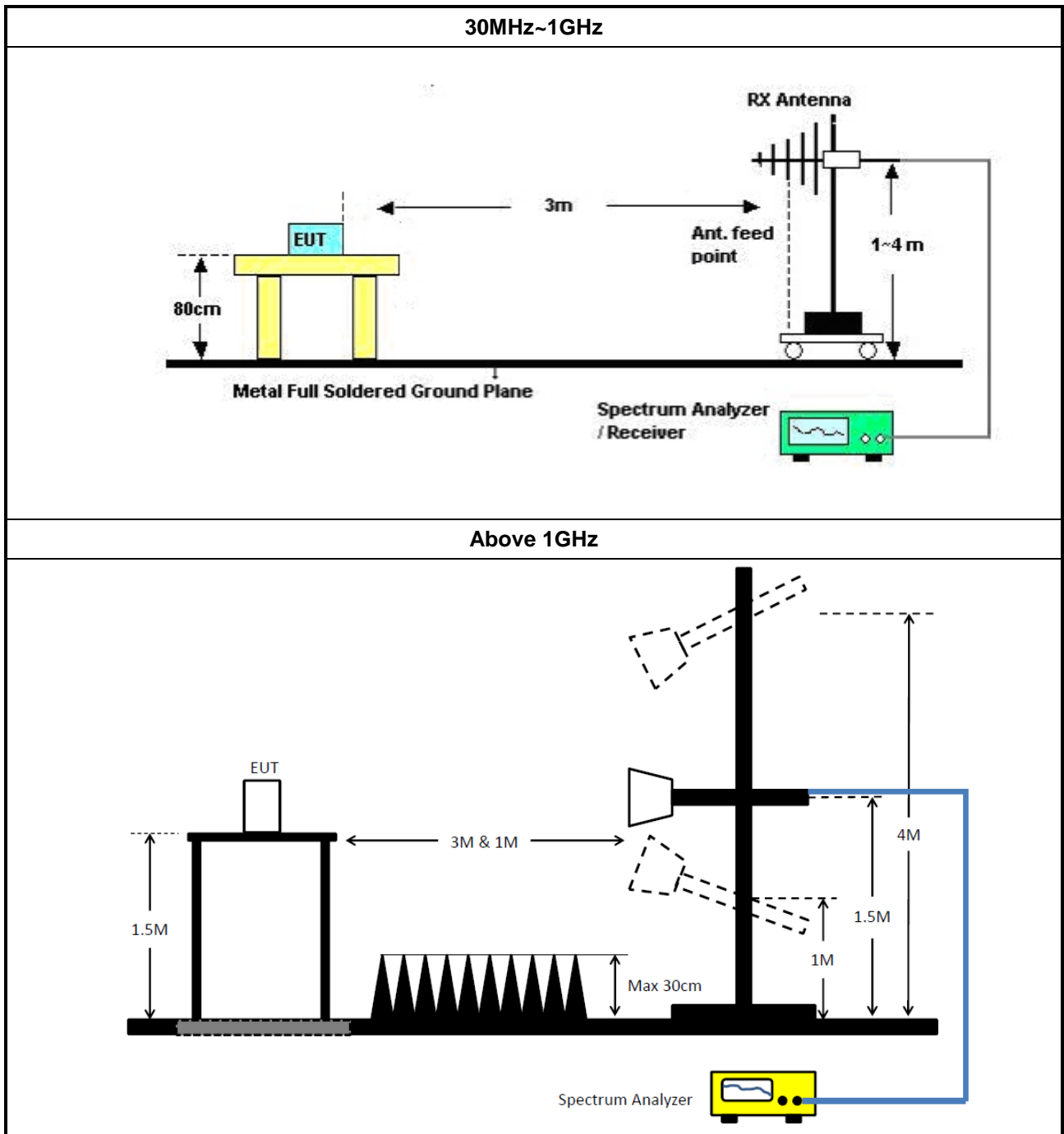
3.7.4 Measurement Results Calculation

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	ESR	102052	9kHz ~ 3.6GHz	19/Apr/2021	18/Apr/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	30/Mar/2021	29/Mar/2022
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	23/Feb/2021	22/Feb/2022
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	23/Feb/2021	22/Feb/2022

**Instrument for Radiated Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	04/Aug/2020	03/Aug/2021
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	02/Aug/2020	01/Aug/2021
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	23/Oct/2020	22/Oct/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	04/Jun/2021	03/Jun/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
RF Cable-R03m	HUBER+ SUHNER	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	09/Mar/2021	08/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022



Summary

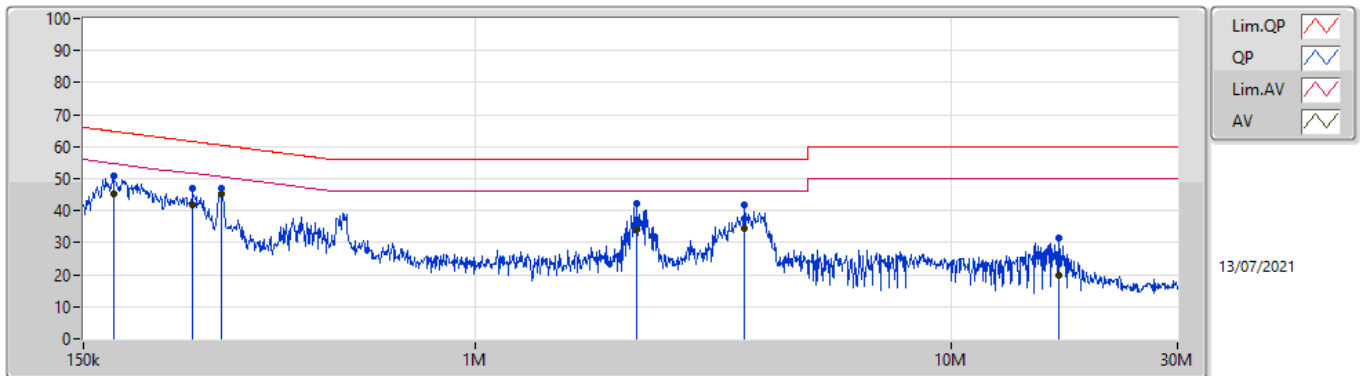
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	292.16k	45.37	50.46	-5.09	Line



Mode config

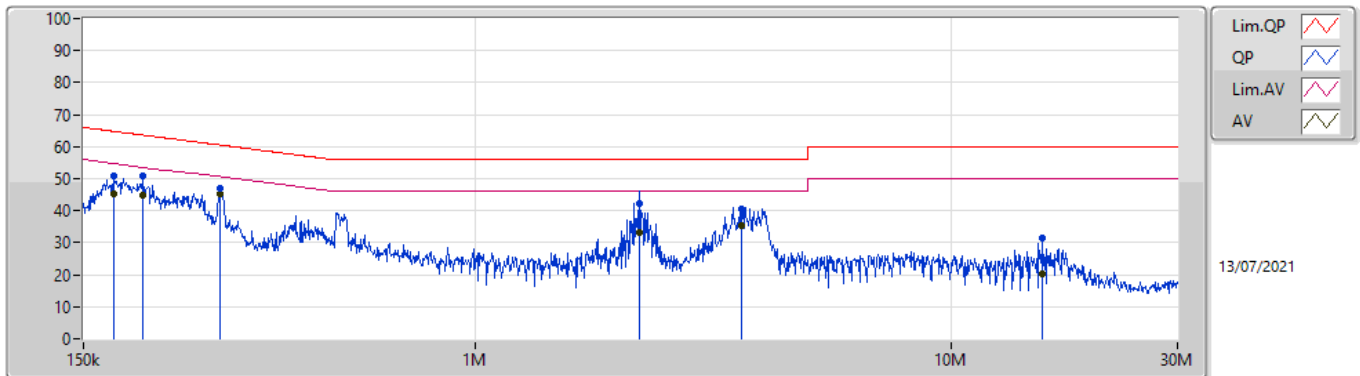
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	173.183k	51.06	64.80	-13.74	Line	-
Mode 1	Pass	AV	173.183k	45.36	54.80	-9.44	Line	-
Mode 1	Pass	QP	255.079k	47.13	61.58	-14.45	Line	-
Mode 1	Pass	AV	255.079k	41.75	51.58	-9.83	Line	-
Mode 1	Pass	QP	292.16k	47.12	60.46	-13.34	Line	-
Mode 1	Pass	AV	292.16k	45.37	50.46	-5.09	Line	-
Mode 1	Pass	QP	2.185M	42.17	56.00	-13.83	Line	-
Mode 1	Pass	AV	2.185M	34.06	46.00	-11.94	Line	-
Mode 1	Pass	QP	3.671M	41.61	56.00	-14.39	Line	-
Mode 1	Pass	AV	3.671M	34.63	46.00	-11.37	Line	-
Mode 1	Pass	QP	16.868M	31.62	60.00	-28.38	Line	-
Mode 1	Pass	AV	16.868M	19.89	50.00	-30.11	Line	-
Mode 1	Pass	QP	173.183k	50.95	64.80	-13.85	Neutral	-
Mode 1	Pass	AV	173.183k	45.28	54.80	-9.52	Neutral	-
Mode 1	Pass	QP	199.949k	51.05	63.61	-12.56	Neutral	-
Mode 1	Pass	AV	199.949k	44.74	53.61	-8.87	Neutral	-
Mode 1	Pass	QP	290.996k	46.97	60.49	-13.52	Neutral	-
Mode 1	Pass	AV	290.996k	45.13	50.49	-5.36	Neutral	-
Mode 1	Pass	QP	2.211M	42.09	56.00	-13.91	Neutral	-
Mode 1	Pass	AV	2.211M	33.23	46.00	-12.77	Neutral	-
Mode 1	Pass	QP	3.642M	40.54	56.00	-15.46	Neutral	-
Mode 1	Pass	AV	3.642M	35.30	46.00	-10.70	Neutral	-
Mode 1	Pass	QP	15.636M	31.38	60.00	-28.62	Neutral	-
Mode 1	Pass	AV	15.636M	20.07	50.00	-29.93	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	173.183k	51.06	64.80	-13.74	19.62	Line	-	31.44	9.68	0.04	9.90
AV	173.183k	45.36	54.80	-9.44	19.62	Line	-	25.74	9.68	0.04	9.90
QP	255.079k	47.13	61.58	-14.45	19.63	Line	-	27.50	9.68	0.05	9.90
AV	255.079k	41.75	51.58	-9.83	19.63	Line	-	22.12	9.68	0.05	9.90
QP	292.16k	47.12	60.46	-13.34	19.62	Line	-	27.50	9.67	0.05	9.90
AV	292.16k	45.37	50.46	-5.09	19.62	Line	-	25.75	9.67	0.05	9.90
QP	2.185M	42.17	56.00	-13.83	19.60	Line	-	22.57	9.68	0.11	9.81
AV	2.185M	34.06	46.00	-11.94	19.60	Line	-	14.46	9.68	0.11	9.81
QP	3.671M	41.61	56.00	-14.39	19.72	Line	-	21.89	9.69	0.14	9.89
AV	3.671M	34.63	46.00	-11.37	19.72	Line	-	14.91	9.69	0.14	9.89
QP	16.868M	31.62	60.00	-28.38	19.85	Line	-	11.77	9.68	0.27	9.90
AV	16.868M	19.89	50.00	-30.11	19.85	Line	-	0.04	9.68	0.27	9.90

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	173.183k	50.95	64.80	-13.85	19.62	Neutral	-	31.33	9.68	0.04	9.90
AV	173.183k	45.28	54.80	-9.52	19.62	Neutral	-	25.66	9.68	0.04	9.90
QP	199.949k	51.05	63.61	-12.56	19.62	Neutral	-	31.43	9.68	0.04	9.90
AV	199.949k	44.74	53.61	-8.87	19.62	Neutral	-	25.12	9.68	0.04	9.90
QP	290.996k	46.97	60.49	-13.52	19.62	Neutral	-	27.35	9.67	0.05	9.90
AV	290.996k	45.13	50.49	-5.36	19.62	Neutral	-	25.51	9.67	0.05	9.90
QP	2.211M	42.09	56.00	-13.91	19.60	Neutral	-	22.49	9.68	0.11	9.81
AV	2.211M	33.23	46.00	-12.77	19.60	Neutral	-	13.63	9.68	0.11	9.81
QP	3.642M	40.54	56.00	-15.46	19.71	Neutral	-	20.83	9.69	0.13	9.89
AV	3.642M	35.30	46.00	-10.70	19.71	Neutral	-	15.59	9.69	0.13	9.89
QP	15.636M	31.38	60.00	-28.62	19.90	Neutral	-	11.48	9.74	0.26	9.90
AV	15.636M	20.07	50.00	-29.93	19.90	Neutral	-	0.17	9.74	0.26	9.90



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)	887.5k	840.83k	841KF1D	883.75k	837.081k
BT-EDR(2Mbps)	1.318M	1.191M	1M19G1D	1.315M	1.187M
BT-EDR(3Mbps)	1.285M	1.187M	1M19G1D	1.283M	1.184M

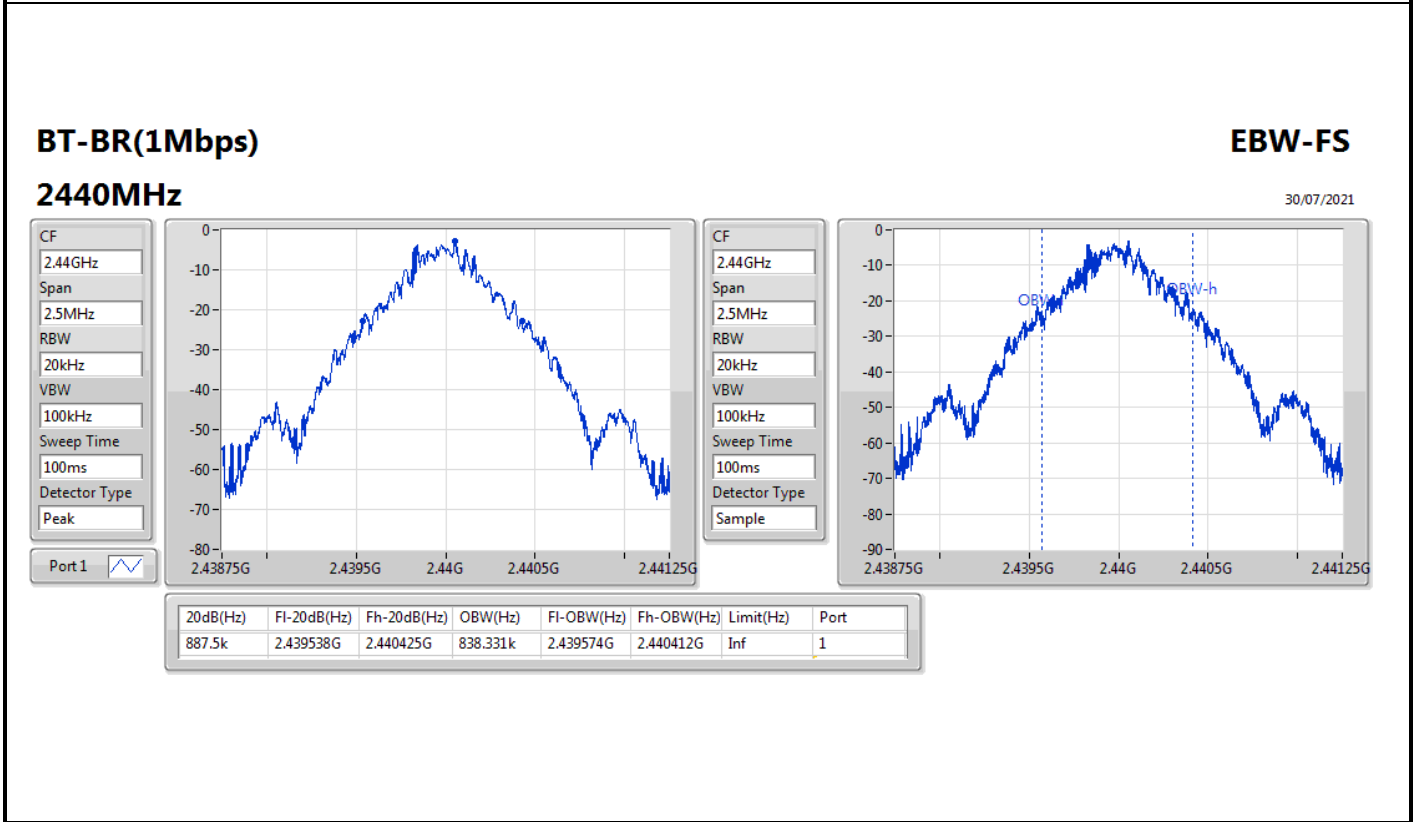
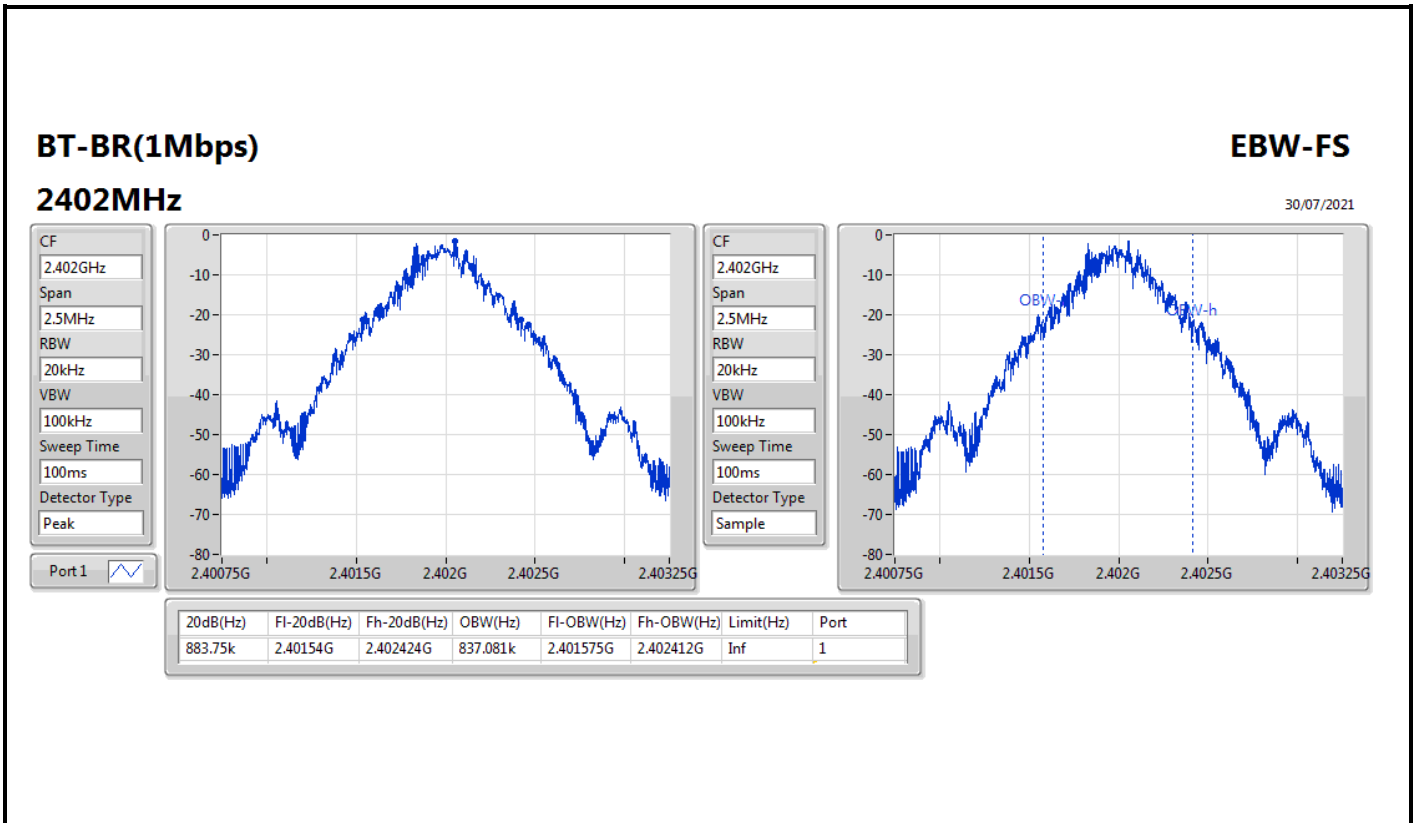
Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

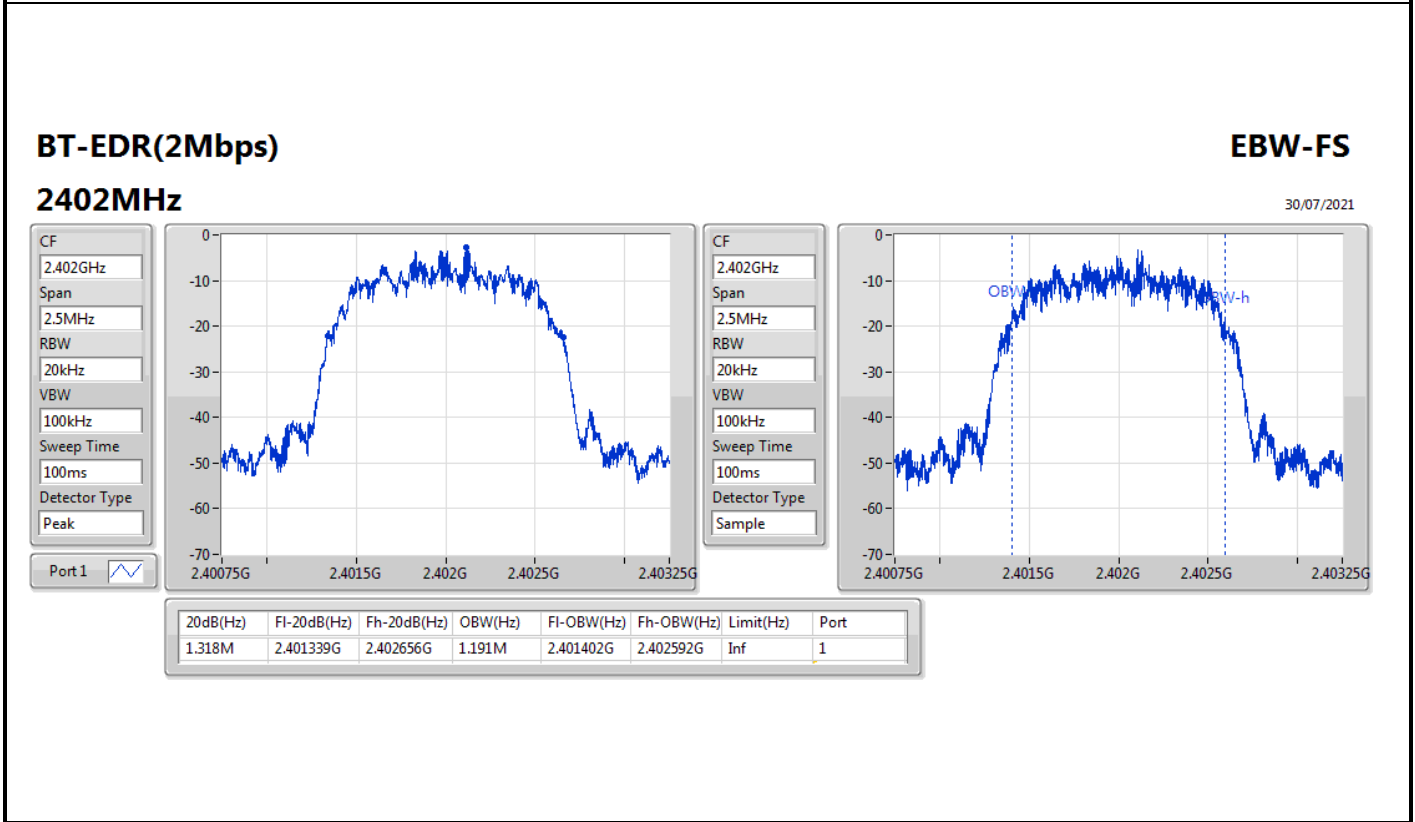
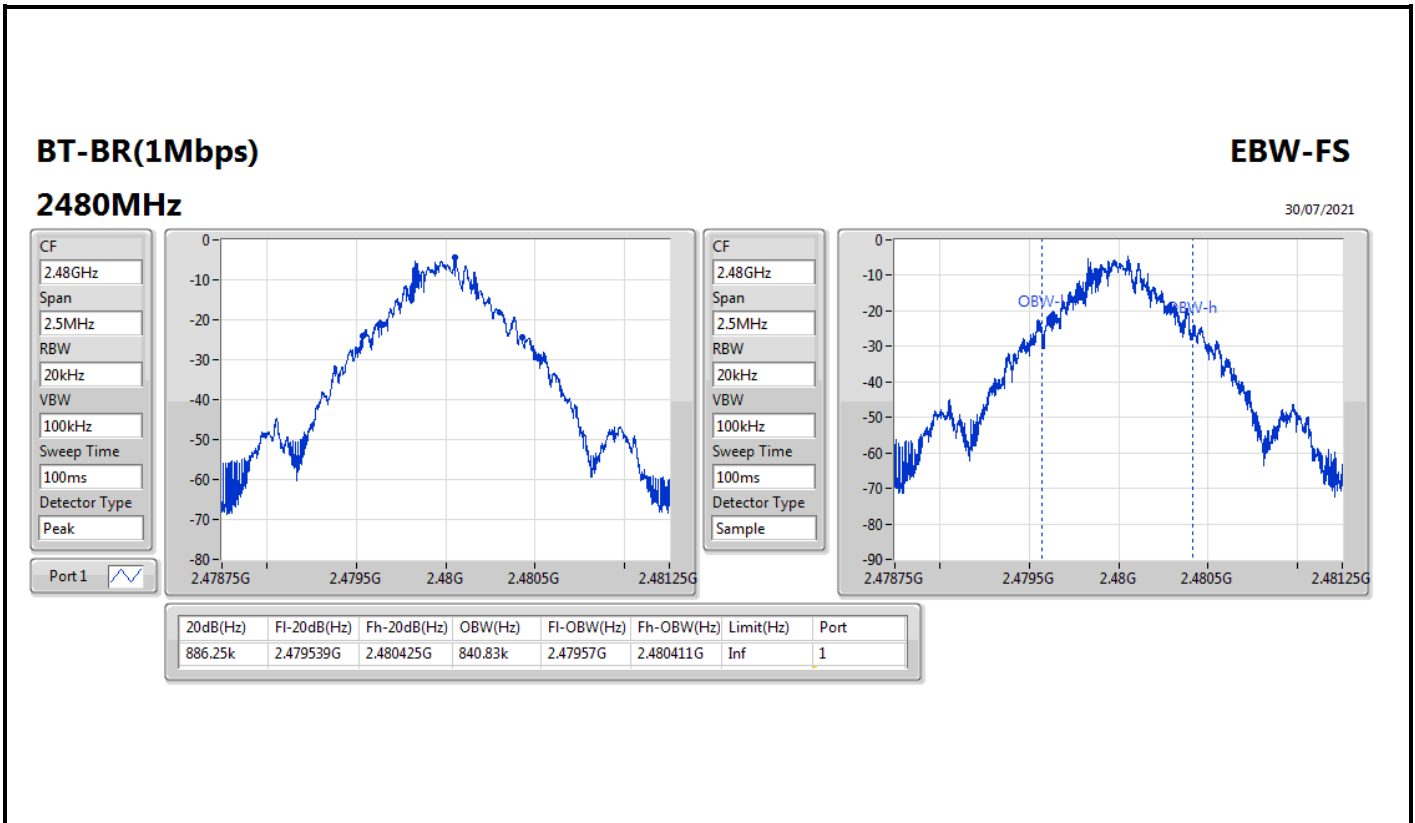


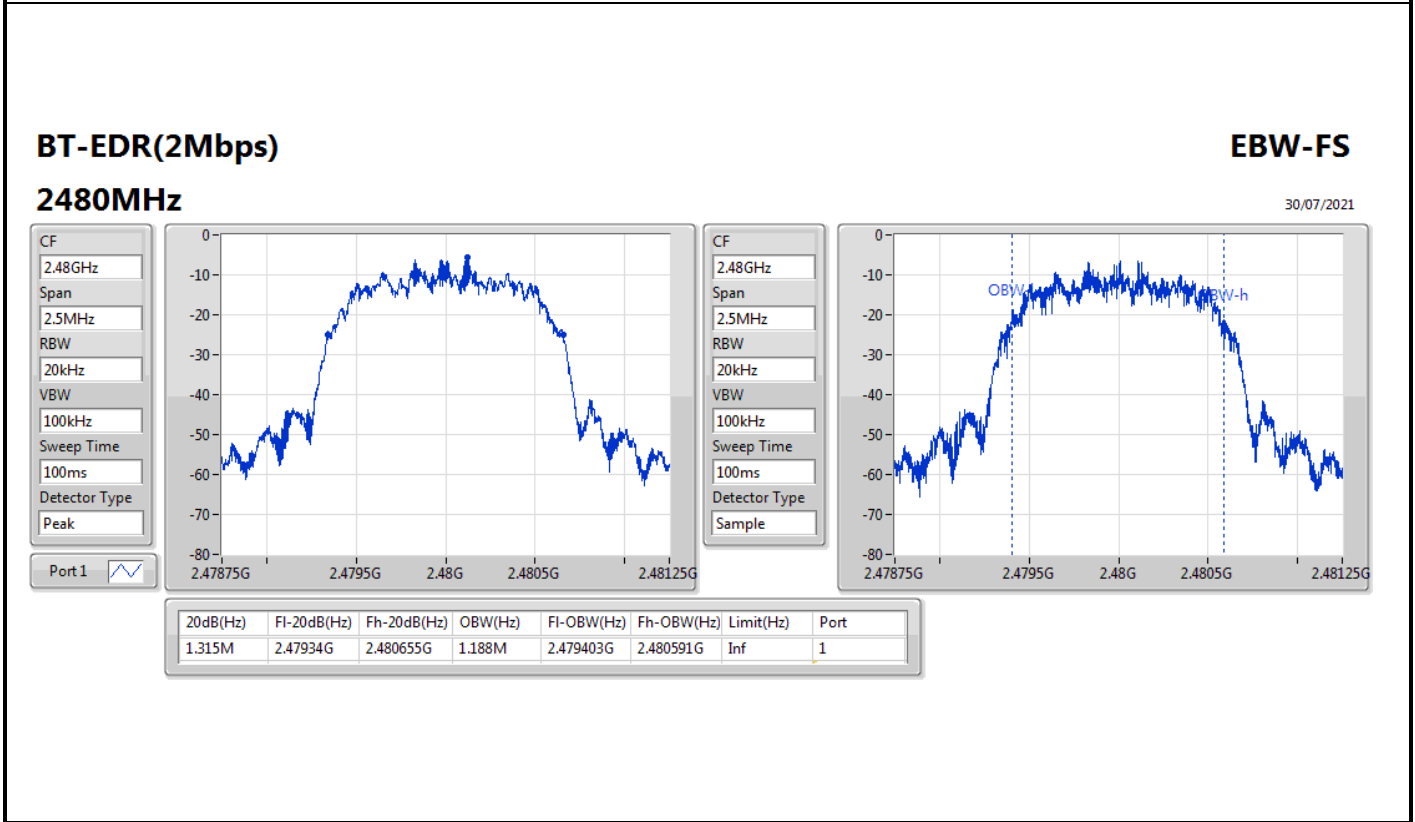
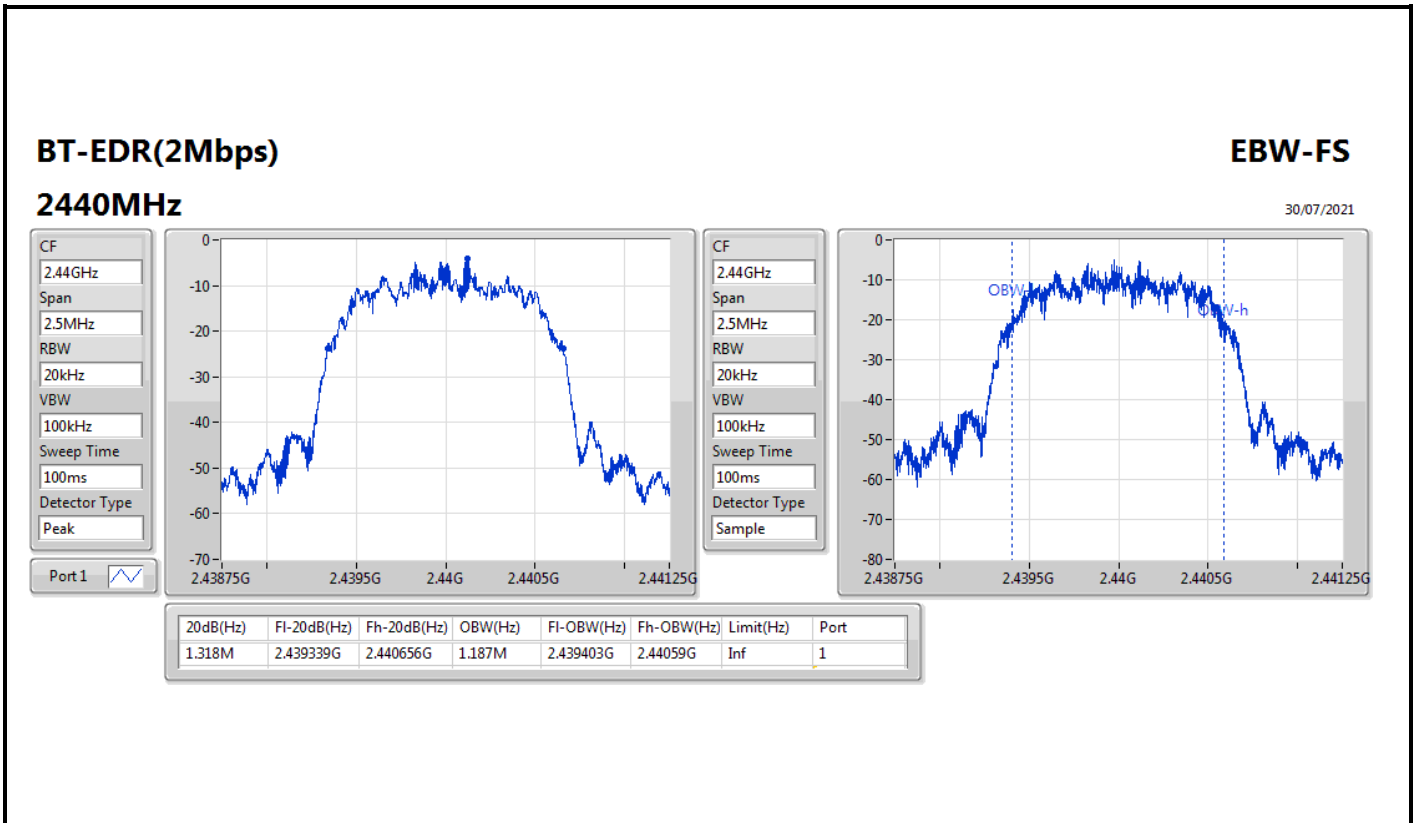
Result

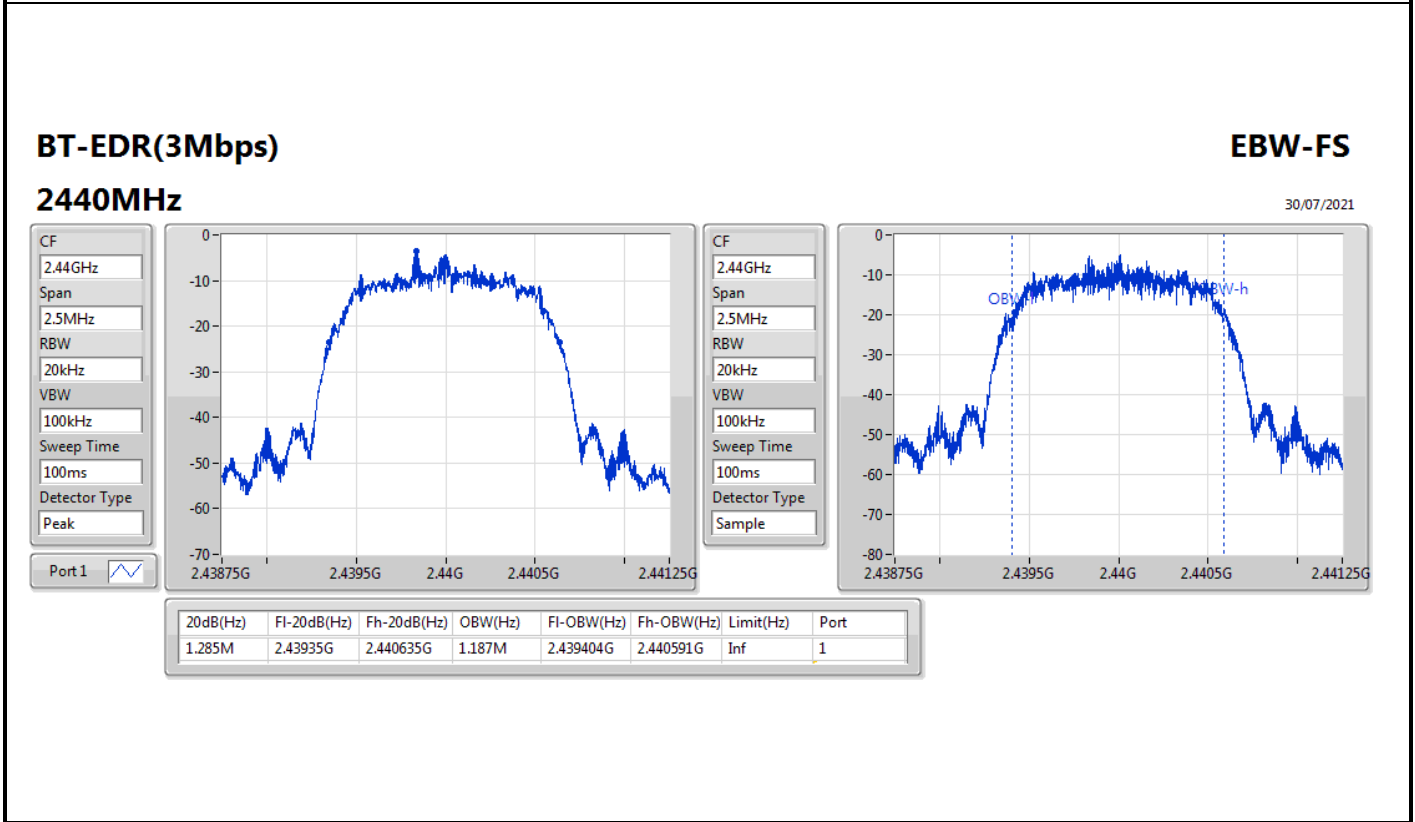
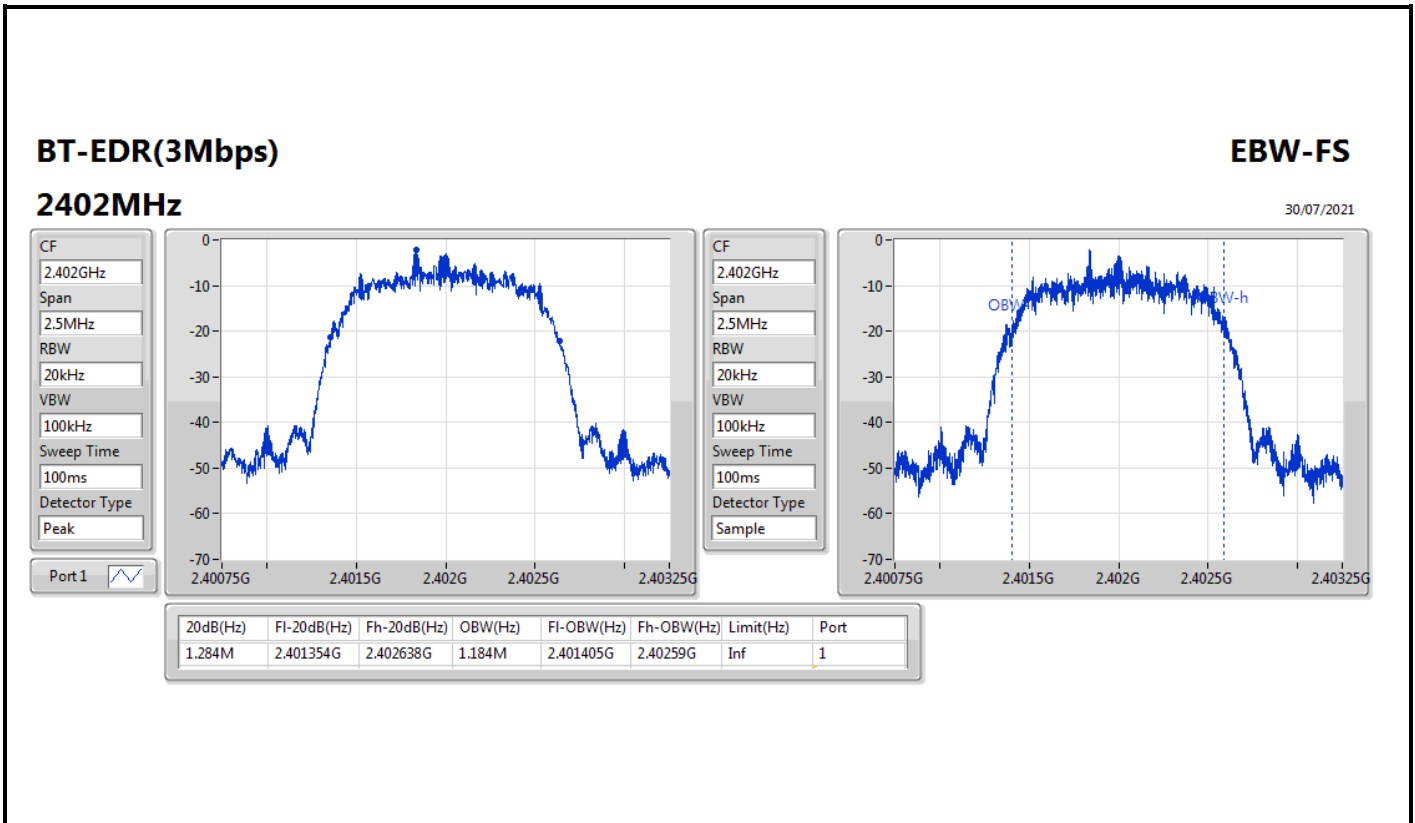
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	883.75k	837.081k
2440MHz	Pass	Inf	887.5k	838.331k
2480MHz	Pass	Inf	886.25k	840.83k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.318M	1.191M
2440MHz	Pass	Inf	1.318M	1.187M
2480MHz	Pass	Inf	1.315M	1.188M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.284M	1.184M
2440MHz	Pass	Inf	1.285M	1.187M
2480MHz	Pass	Inf	1.283M	1.186M

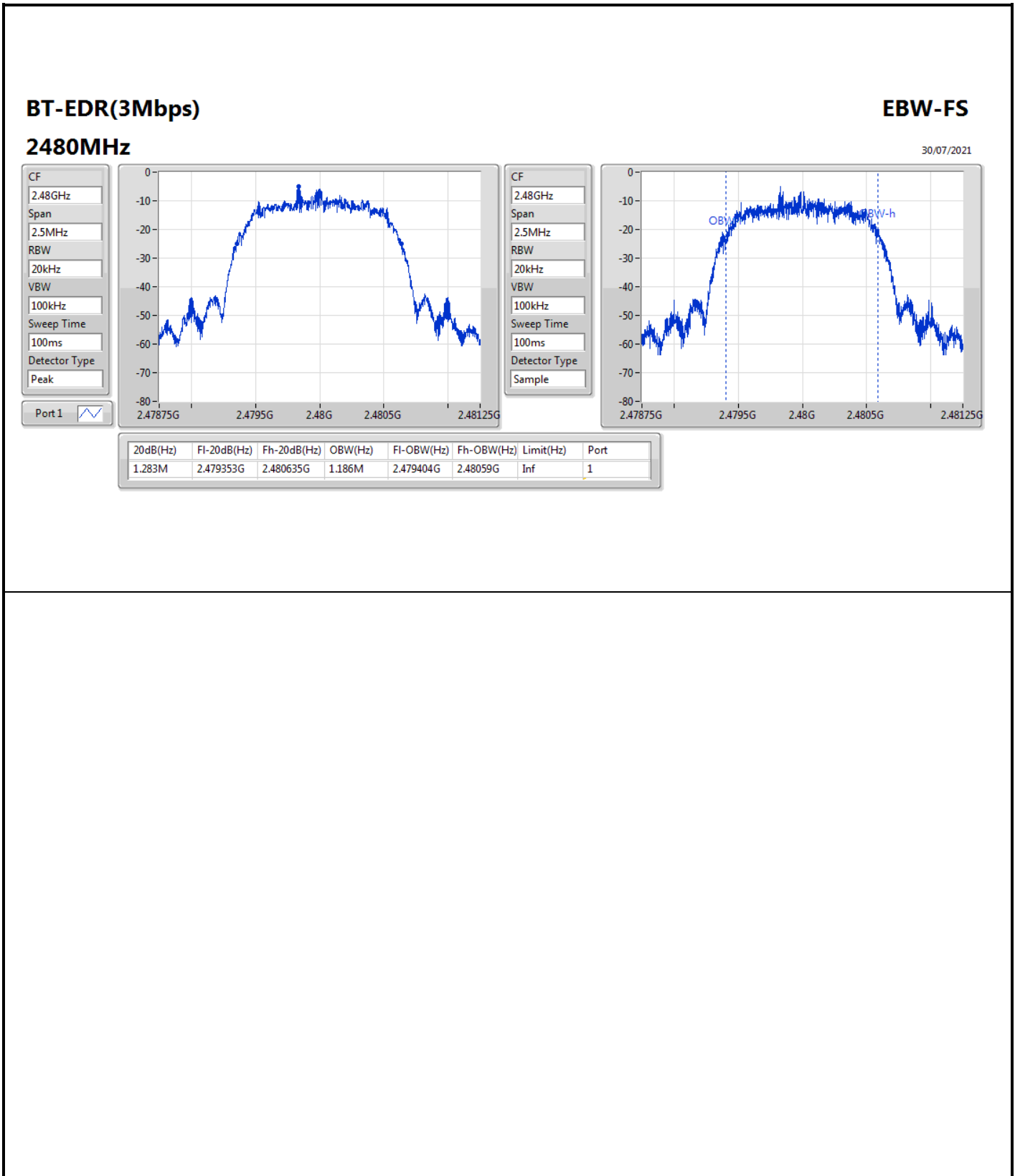
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth













Summary

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



Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.401836G	2.402836G	1.0005M	588.5775k
2440MHz	Pass	2.439834G	2.440835G	1.0005M	591.075k
2480MHz	Pass	2.478834G	2.479836G	1.002M	618.5475k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402119G	2.403118G	999k	877.788k
2440MHz	Pass	2.440119G	2.44112G	1.0005M	877.788k
2480MHz	Pass	2.479119G	2.480118G	999k	875.79k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.401837G	2.402836G	999k	855.144k
2440MHz	Pass	2.439837G	2.440836G	999k	855.81k
2480MHz	Pass	2.478836G	2.479836G	1.0005M	854.478k

BT-BR(1Mbps)

Channel Separation-FS

2.402G/2.403GHz

30/07/2021



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.401836G	2.402836G	1.0005M	588.5775k

BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

30/07/2021



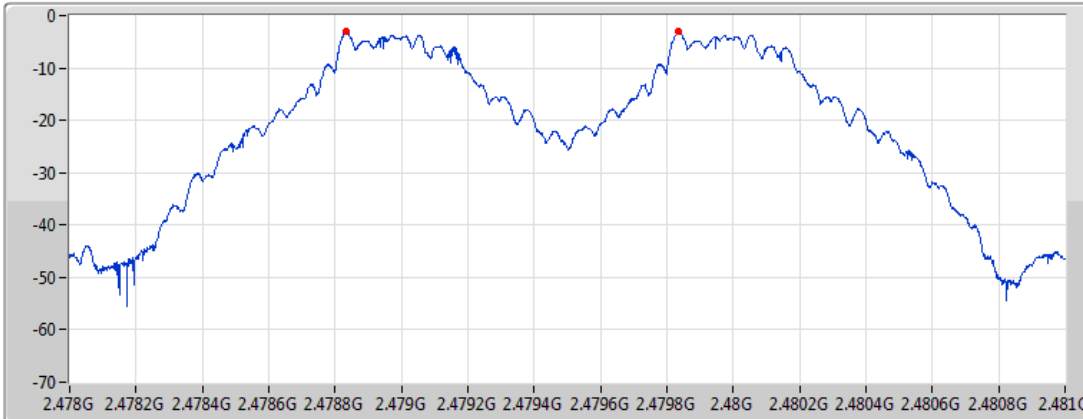
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.439834G	2.440835G	1.0005M	591.075k


BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation-FS

30/07/2021



Port 1 

Ch Freq
2.48G/2.479G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

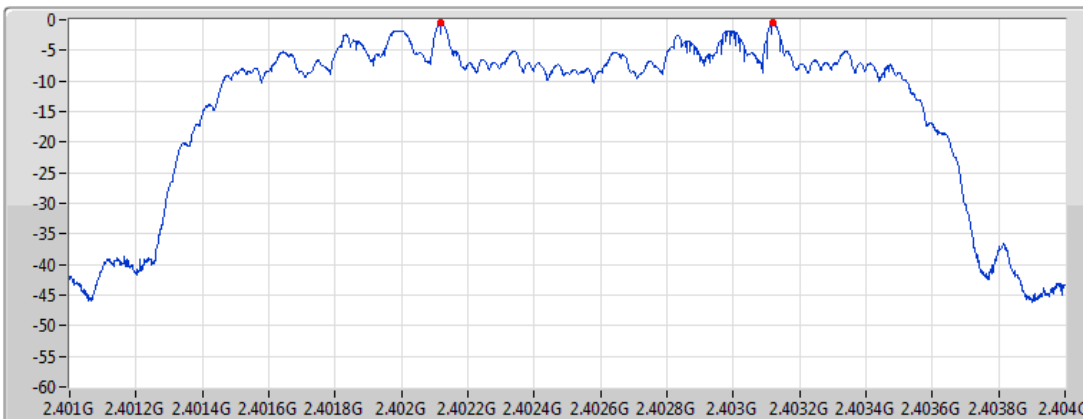
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.478834G	2.479836G	1.002M	618.5475k


BT-EDR(2Mbps)

2.402G/2.403GHz

Channel Separation-FS

30/07/2021



Port 1 

Ch Freq
2.402G/2.403G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

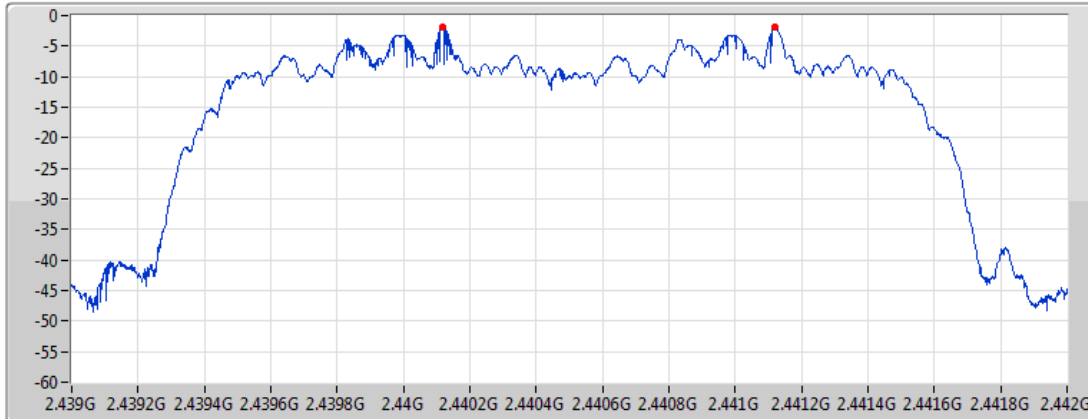
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402119G	2.403118G	999k	877.788k


BT-EDR(2Mbps)

Channel Separation-FS

2.44G/2.441GHz

30/07/2021



Port 1 

Ch Freq
2.44G/2.441G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

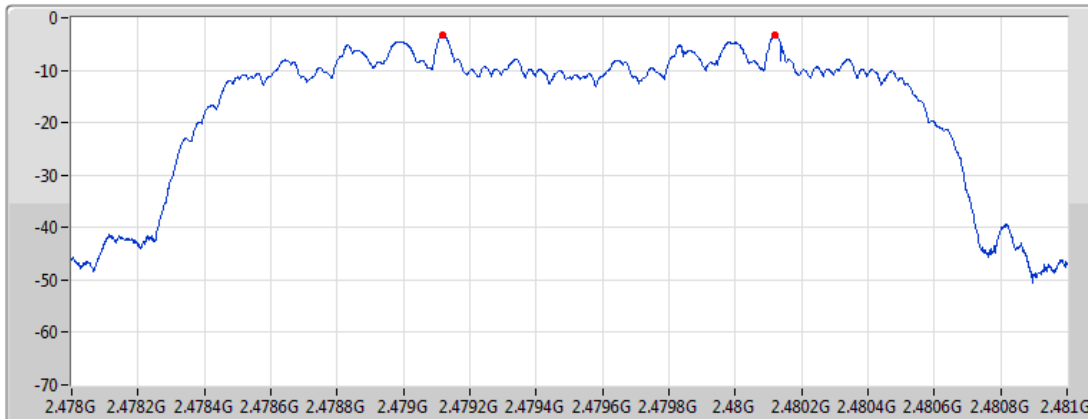
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440119G	2.44112G	1.0005M	877.788k


BT-EDR(2Mbps)

Channel Separation-FS

2.48G/2.479GHz

30/07/2021



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)
2.479119G	2.480118G	999k	875.79k


BT-EDR(3Mbps)

Channel Separation-FS

2.402G/2.403GHz

30/07/2021



Port 1 

Ch Freq
2.402G/2.403G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

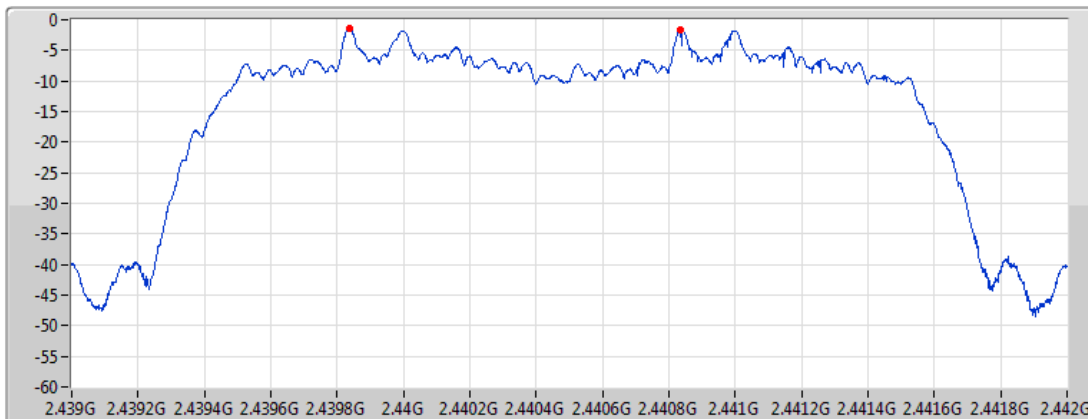
Ff(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.401837G	2.402836G	999k	855.144k


BT-EDR(3Mbps)

Channel Separation-FS

2.44G/2.441GHz

30/07/2021



Port 1 

Ch Freq
2.44G/2.441G

Span
3MHz

RBW
30kHz

VBW
100kHz

Sweep
100ms

Detector
Peak

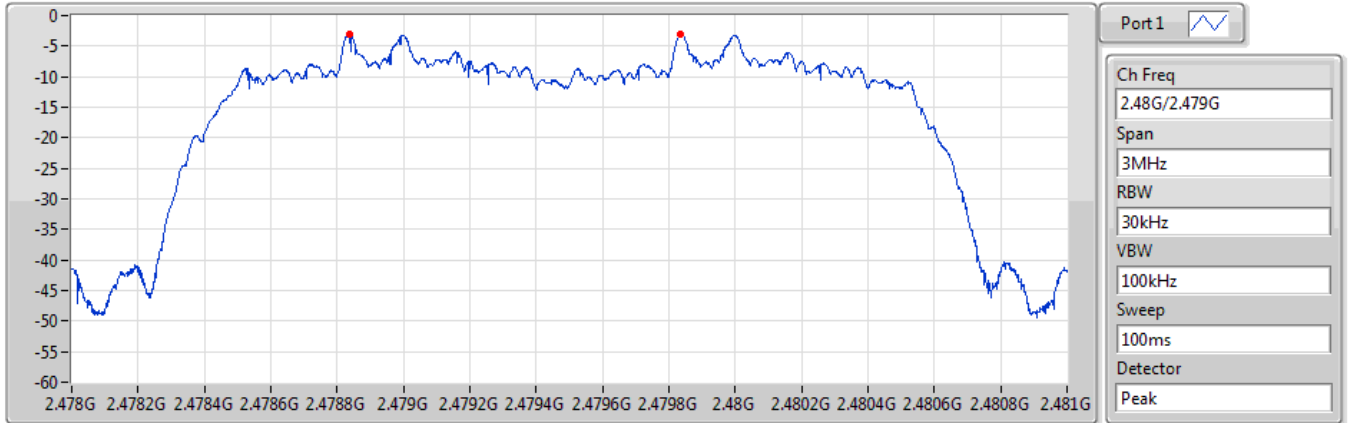
Ff(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.439837G	2.440836G	999k	855.81k

BT-EDR(3Mbps)

Channel Separation-FS

2.48G/2.479GHz

30/07/2021



F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.478836G	2.479836G	1.0005M	854.478k



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	2.08	0.00161
BT-EDR(2Mbps)	4.33	0.00271
BT-EDR(3Mbps)	4.97	0.00314



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	1.70	2.08	21.00
2440MHz	Pass	1.70	0.77	21.00
2480MHz	Pass	1.70	-0.67	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	1.70	4.33	21.00
2440MHz	Pass	1.70	3.04	21.00
2480MHz	Pass	1.70	1.59	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	1.70	4.97	21.00
2440MHz	Pass	1.70	3.69	21.00
2480MHz	Pass	1.70	2.26	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	2.06	0.00161
BT-EDR(2Mbps)	2.30	0.00170
BT-EDR(3Mbps)	2.39	0.00173



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	1.70	2.06	21.00
2440MHz	Pass	1.70	0.73	21.00
2480MHz	Pass	1.70	-0.71	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	1.70	2.30	21.00
2440MHz	Pass	1.70	0.94	21.00
2480MHz	Pass	1.70	-0.50	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	1.70	2.39	21.00
2440MHz	Pass	1.70	0.99	21.00
2480MHz	Pass	1.70	-0.47	21.00

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



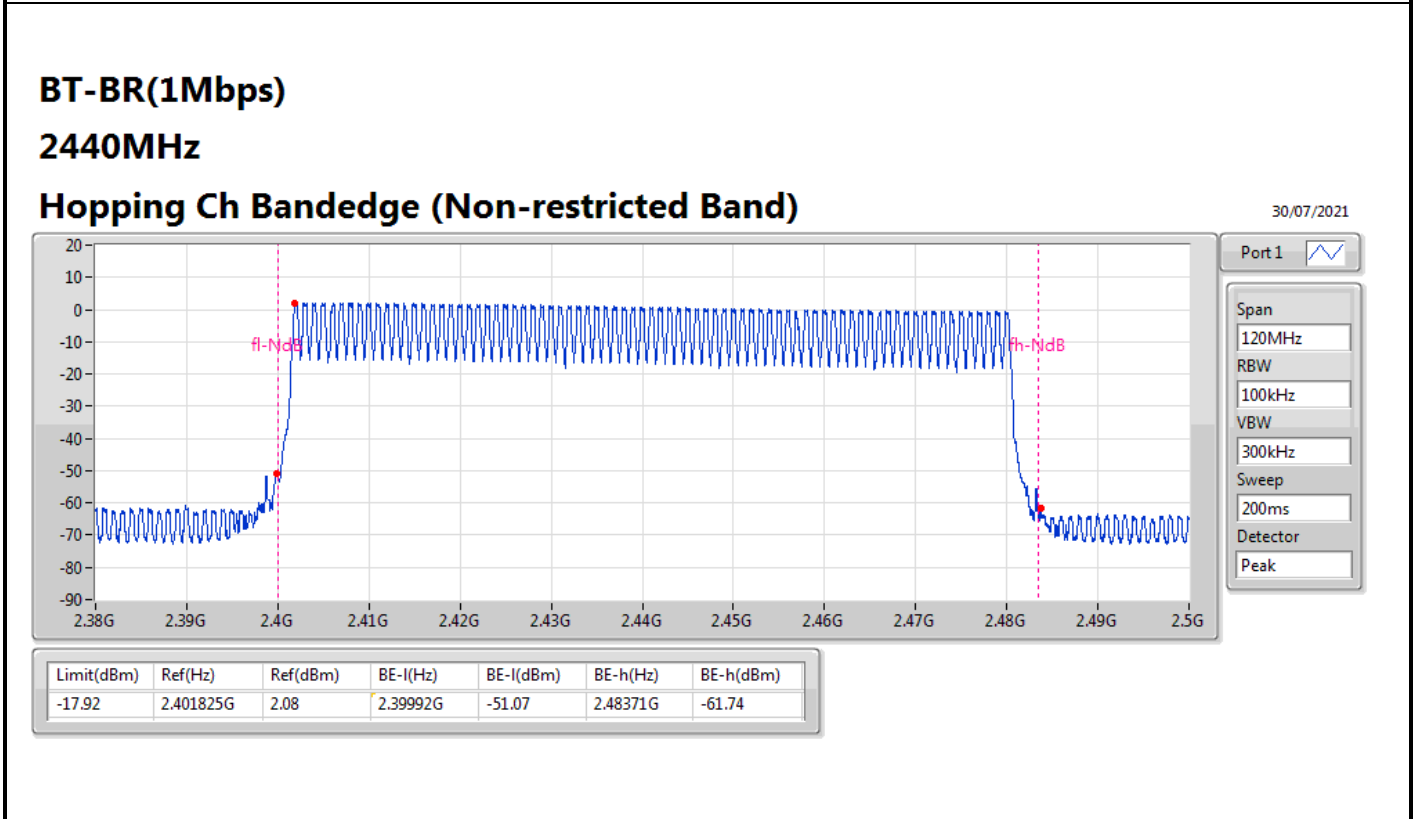
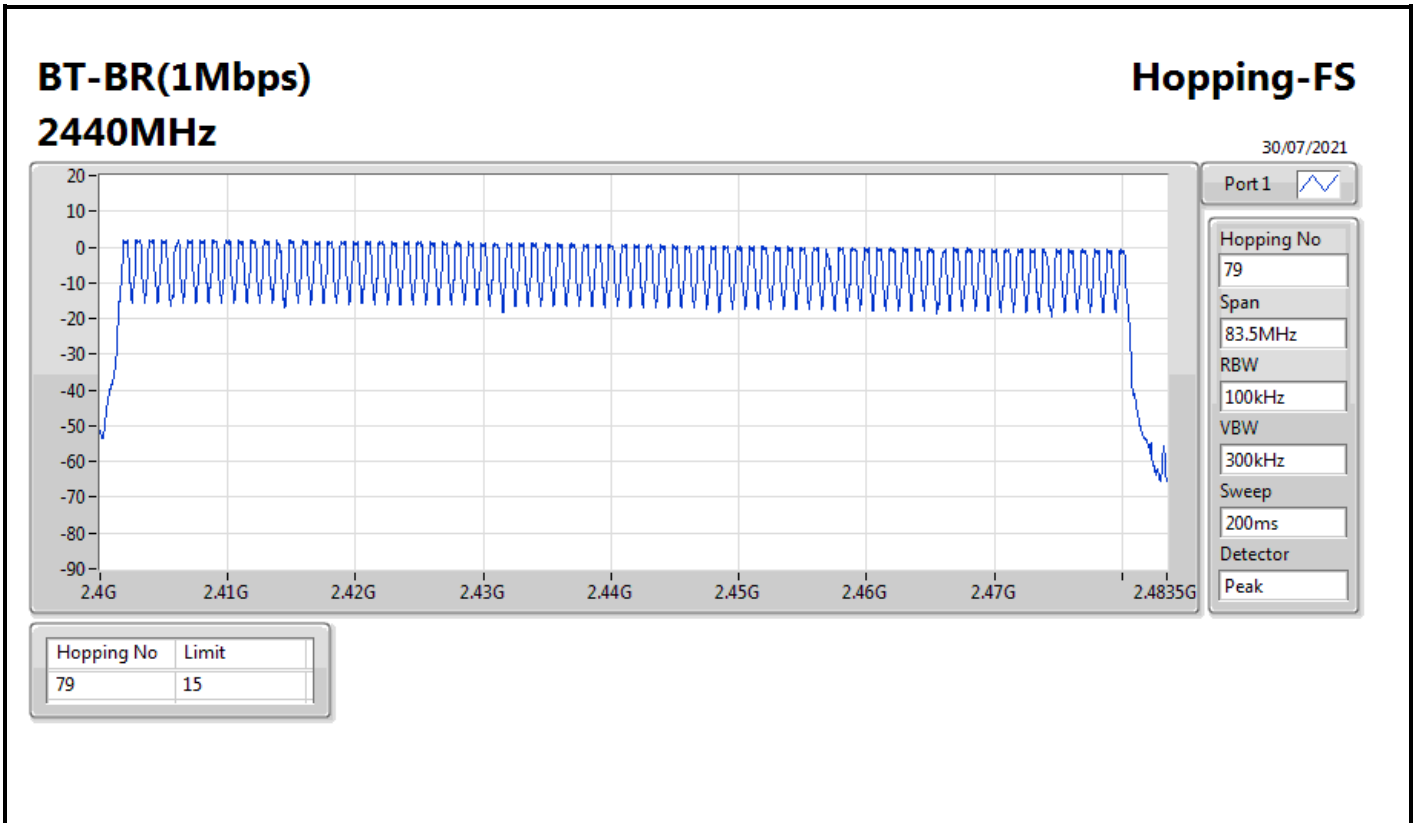
Summary

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



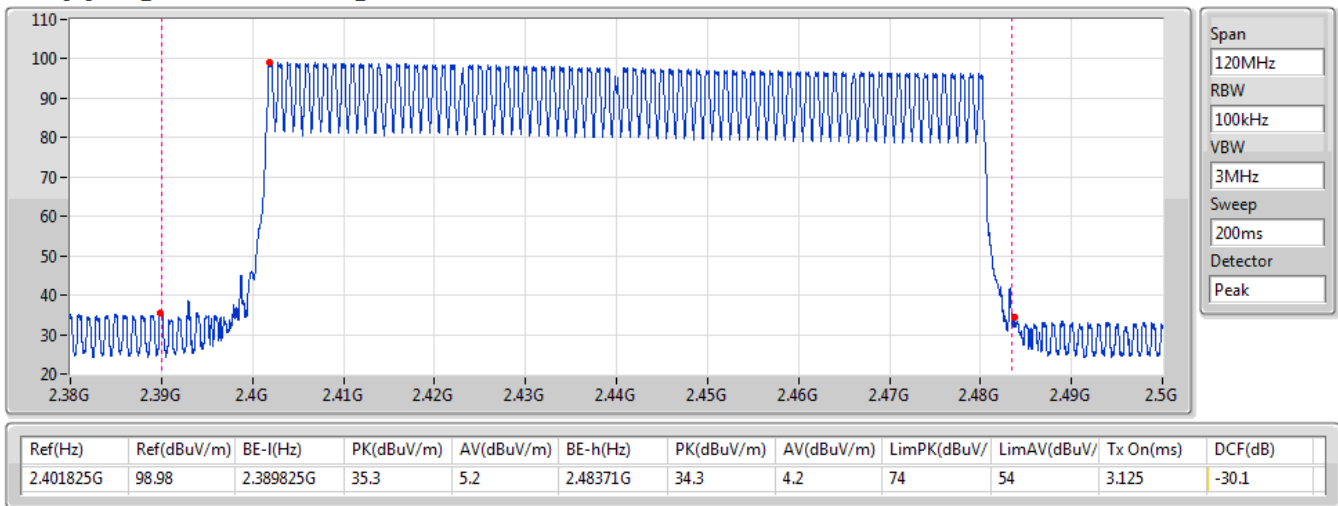
Result

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



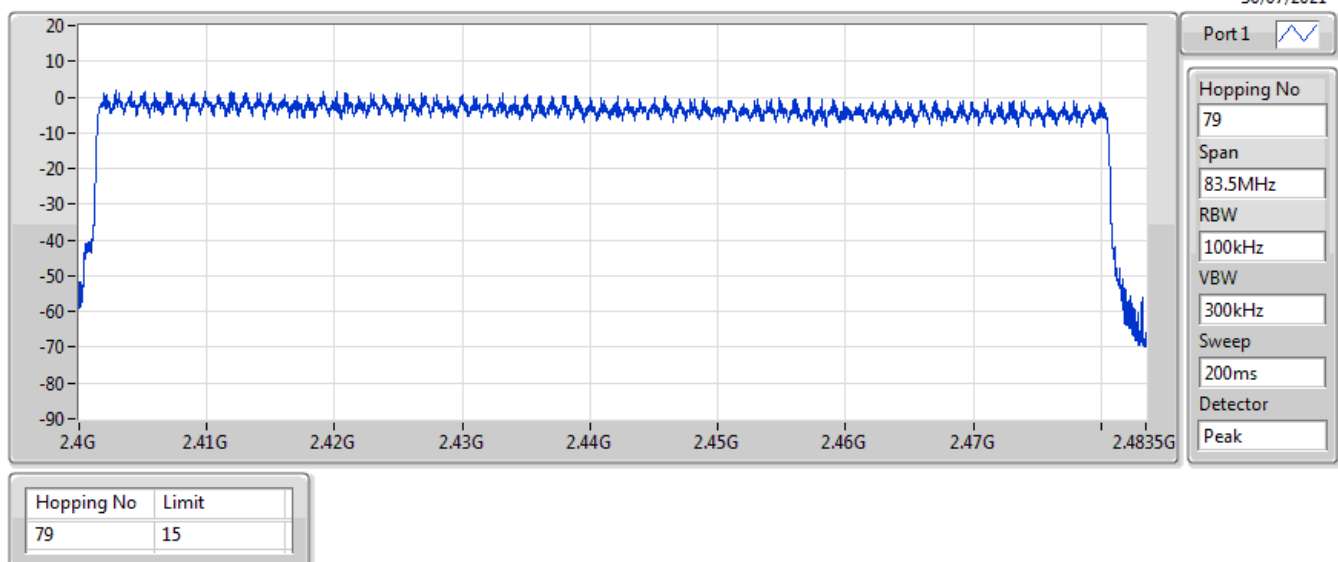
BT-BR(1Mbps)
2440MHz
Hopping Ch Bandedge (Restricted Band)

30/07/2021



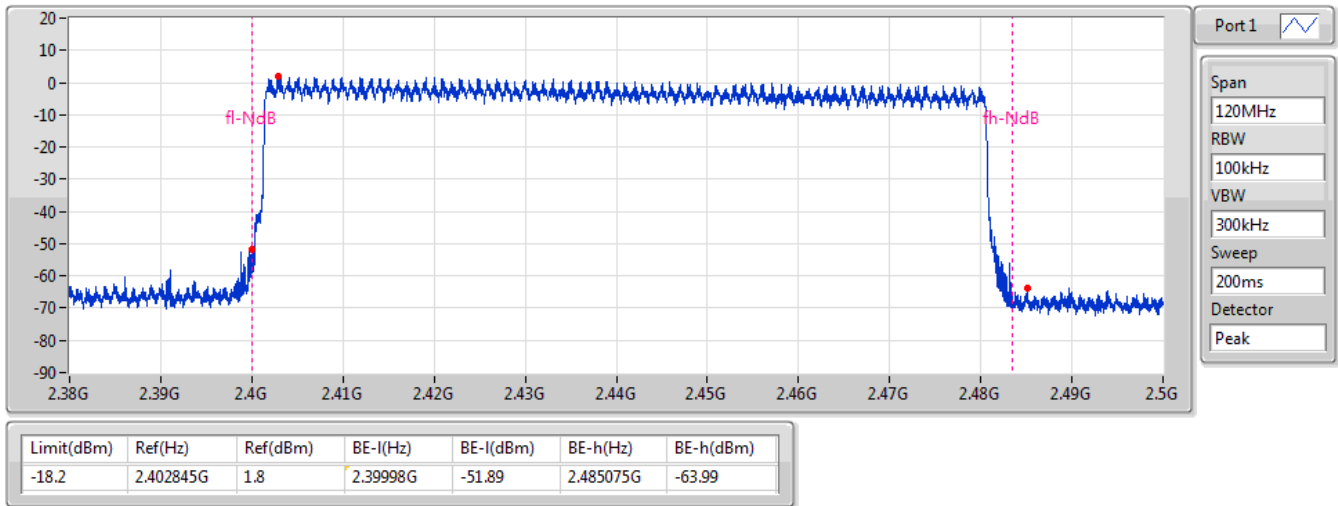
BT-EDR(2Mbps) **Hopping-FS**
2440MHz

30/07/2021



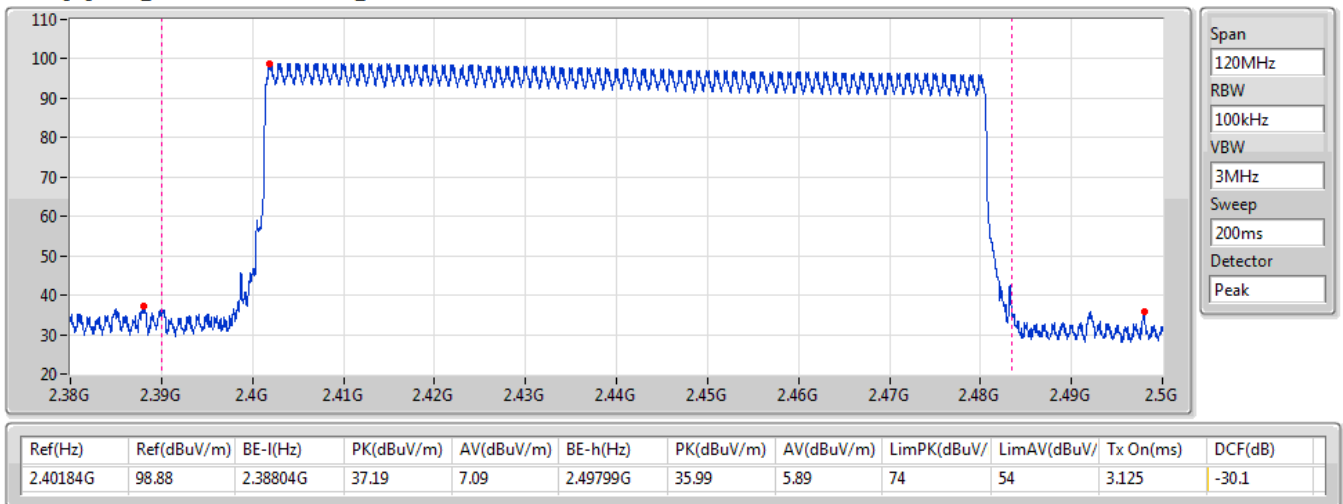
BT-EDR(2Mbps)
2440MHz
Hopping Ch Bandedge (Non-restricted Band)

30/07/2021



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

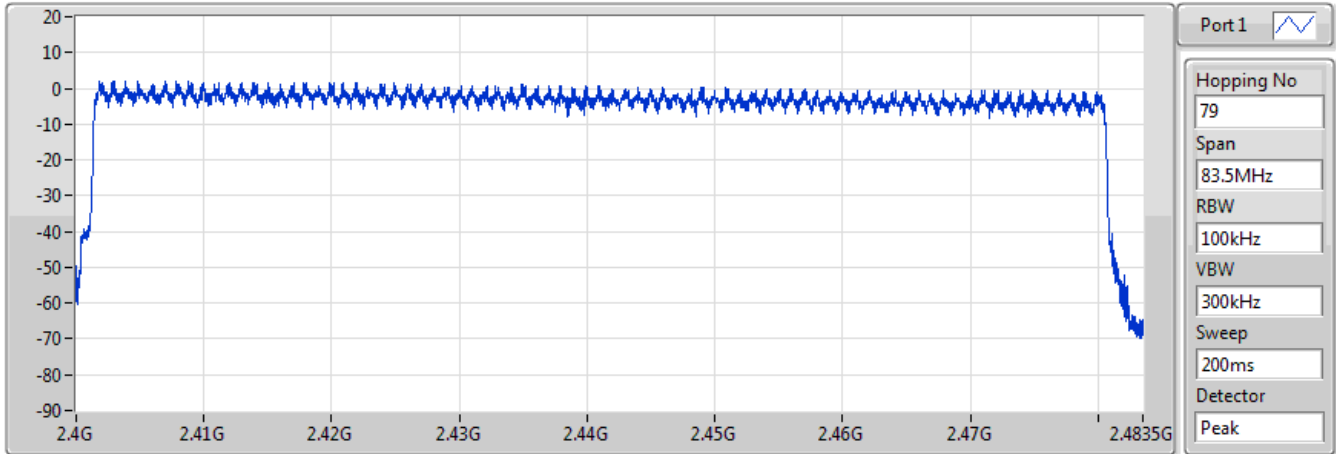
30/07/2021



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

Hopping-FS

30/07/2021

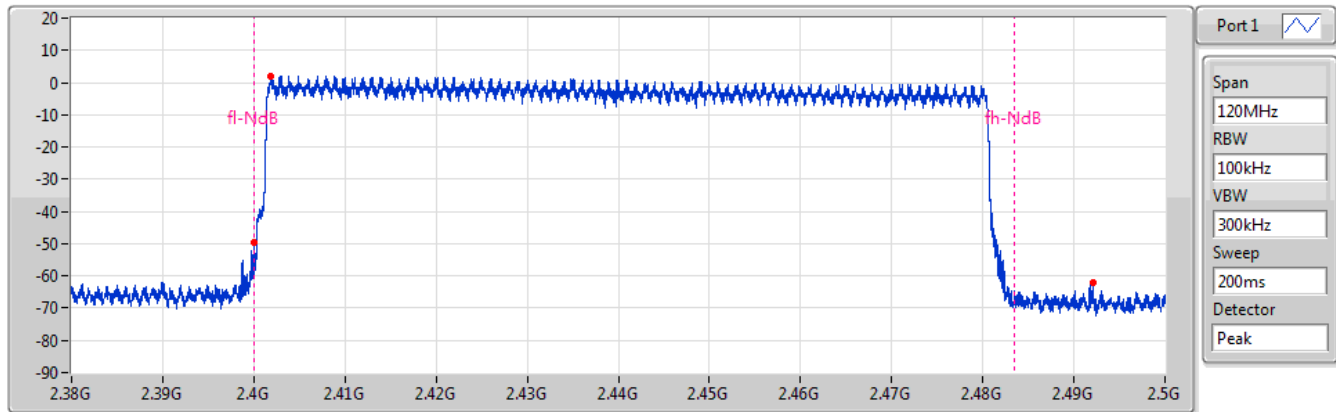


Hopping No	Limit
79	15

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

Hopping Ch Bandedge (Non-restricted Band)

30/07/2021



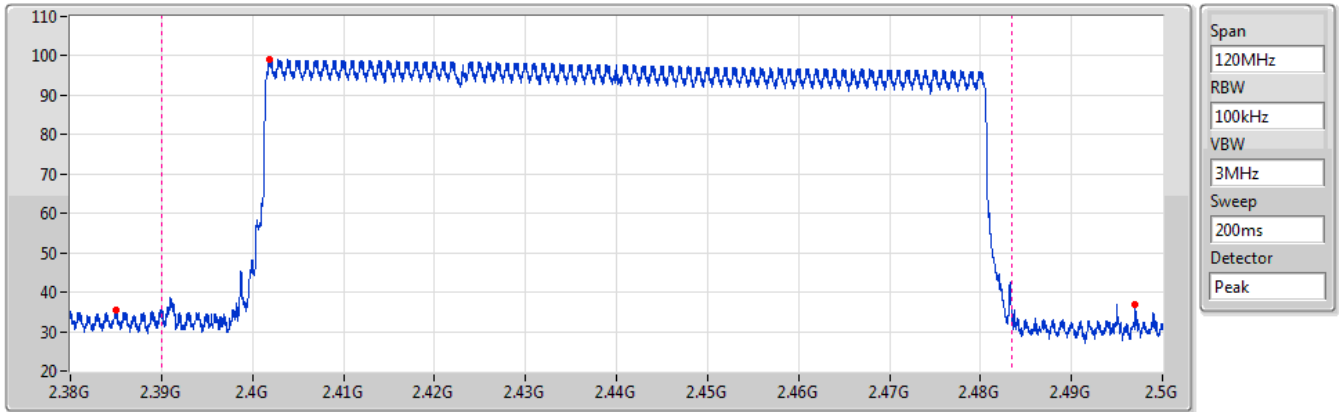
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-17.94	2.401825G	2.06	2.399965G	-49.82	2.49214G	-61.97

BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

30/07/2021



Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.401825G	98.96	2.384995G	35.61	5.51	2.497G	36.96	6.86	74	54	3.125	-30.1



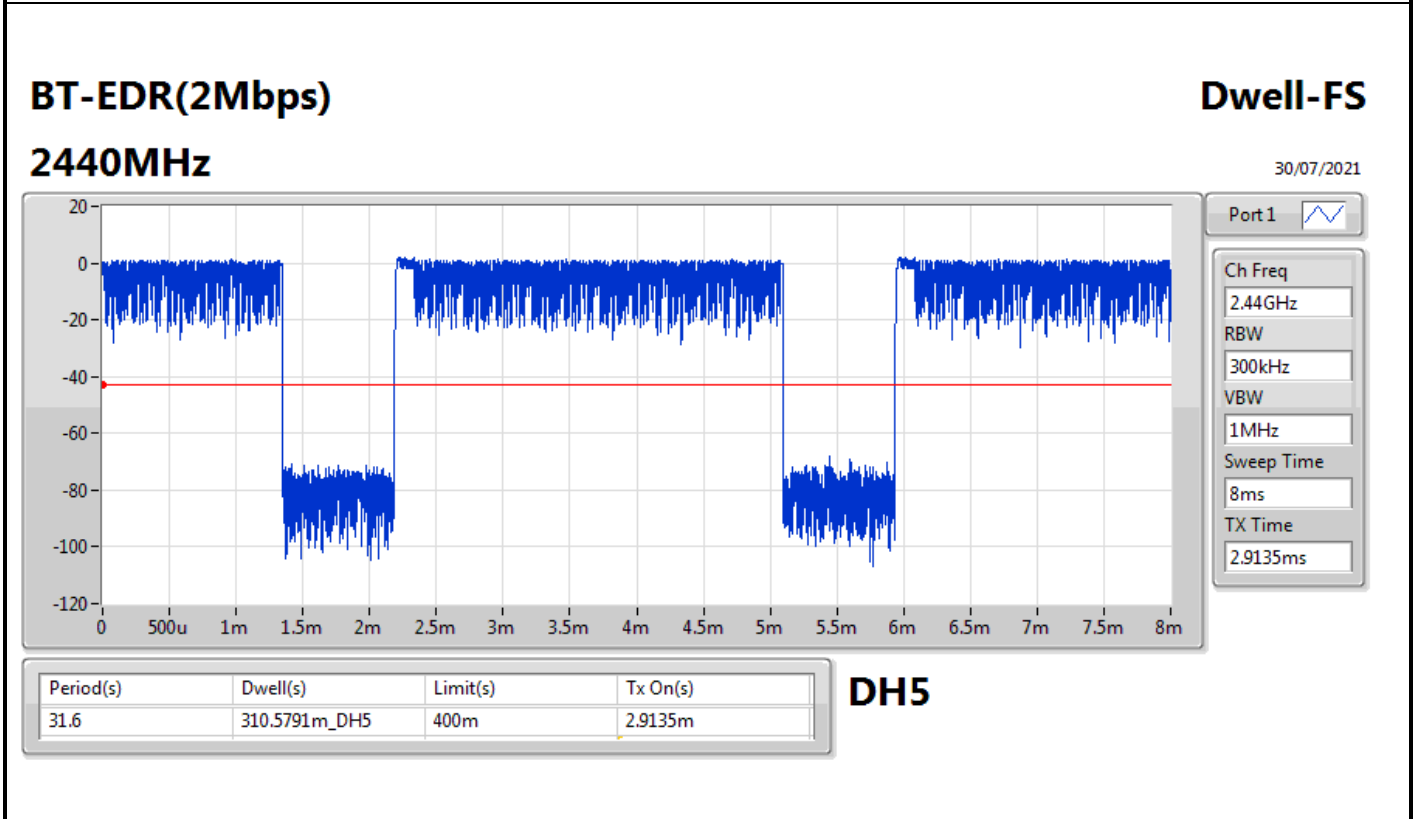
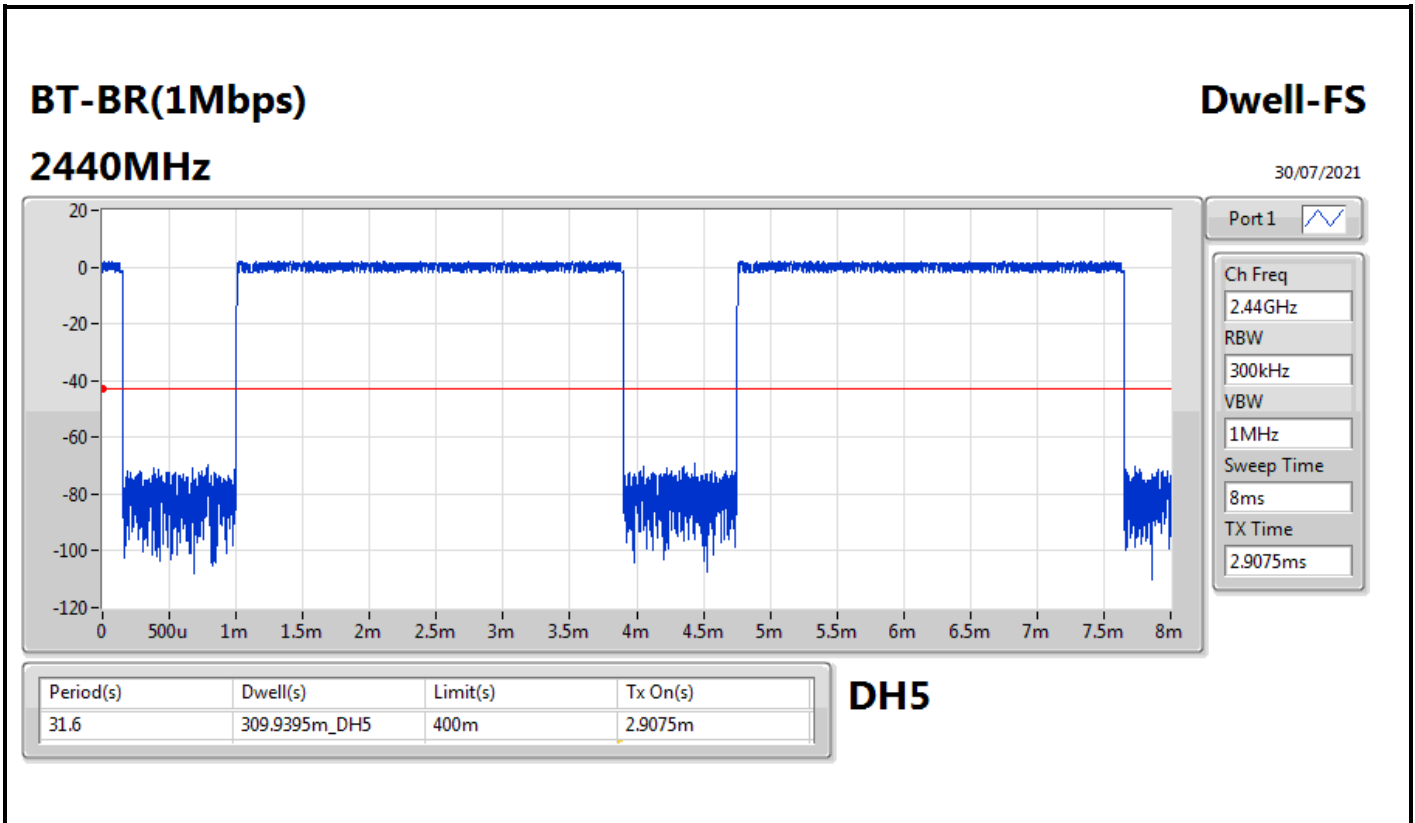
Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	309.9395m_DH5
BT-EDR(2Mbps)	310.5791m_DH5
BT-EDR(3Mbps)	311.03215m_DH5



Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	309.9395m_DH5	400m	2.9075m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	310.5791m_DH5	400m	2.9135m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	311.03215m_DH5	400m	2.91775m

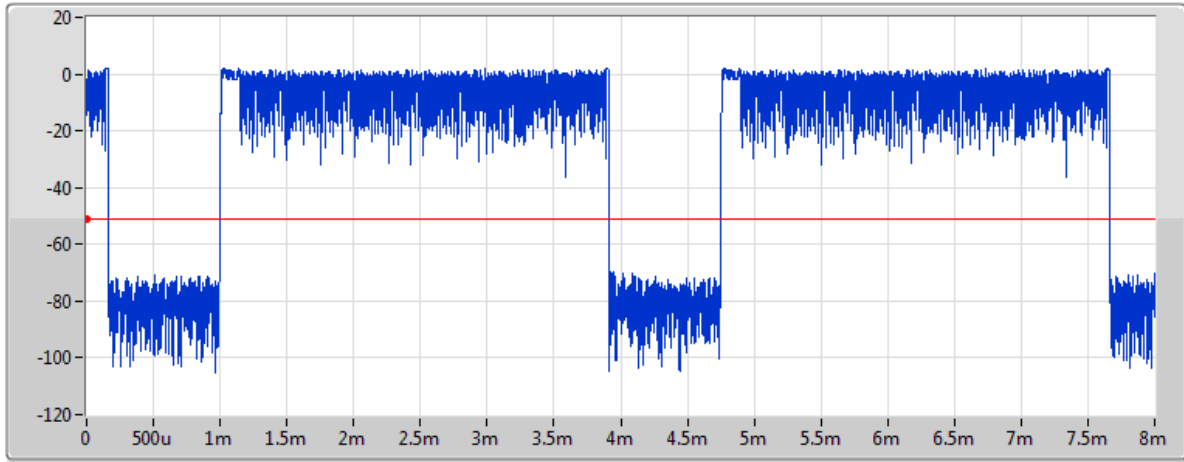


BT-EDR(3Mbps)

Dwell-FS

2440MHz

30/07/2021



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.91775ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	311.03215m_DH5	400m	2.91775m

DH5



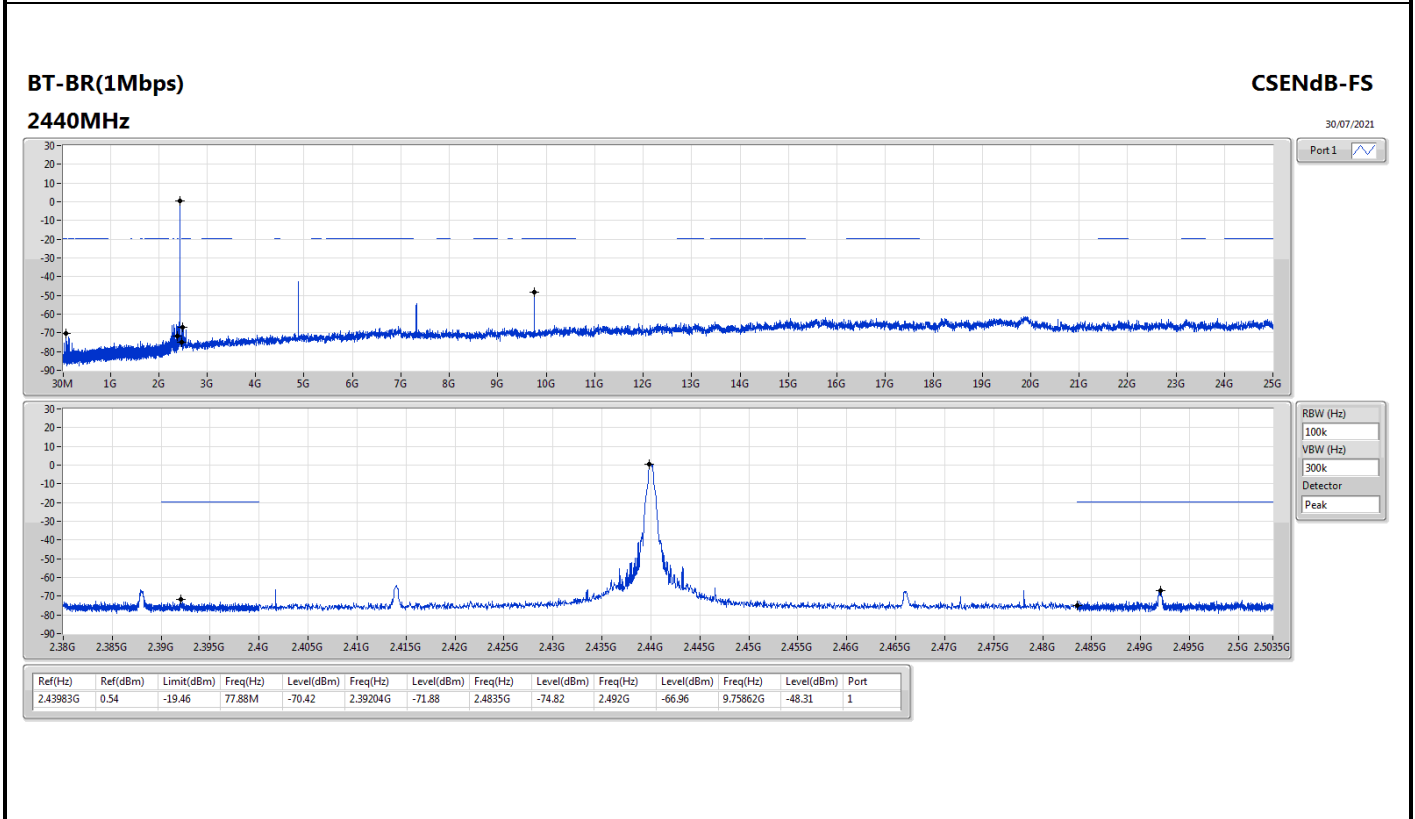
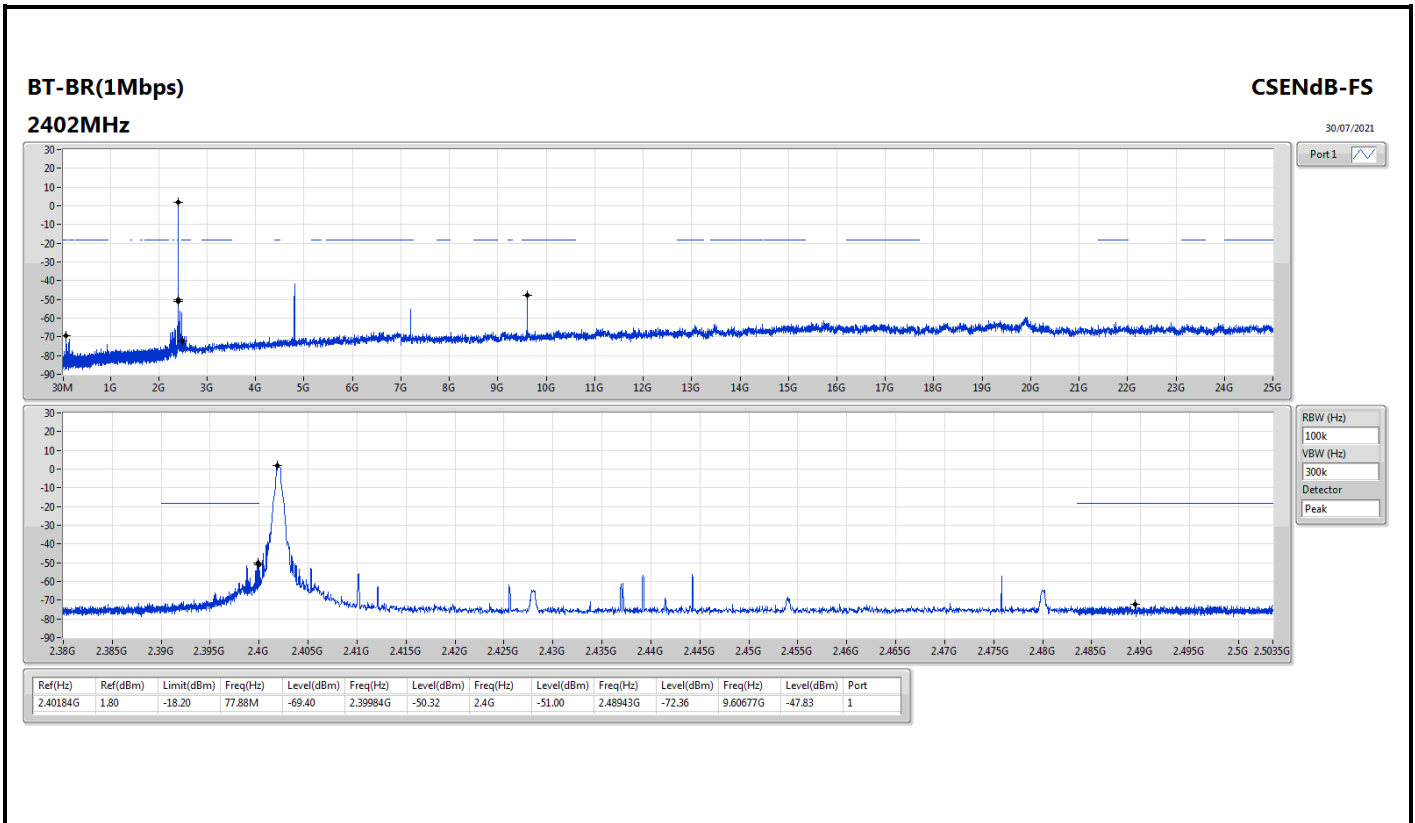
Summary

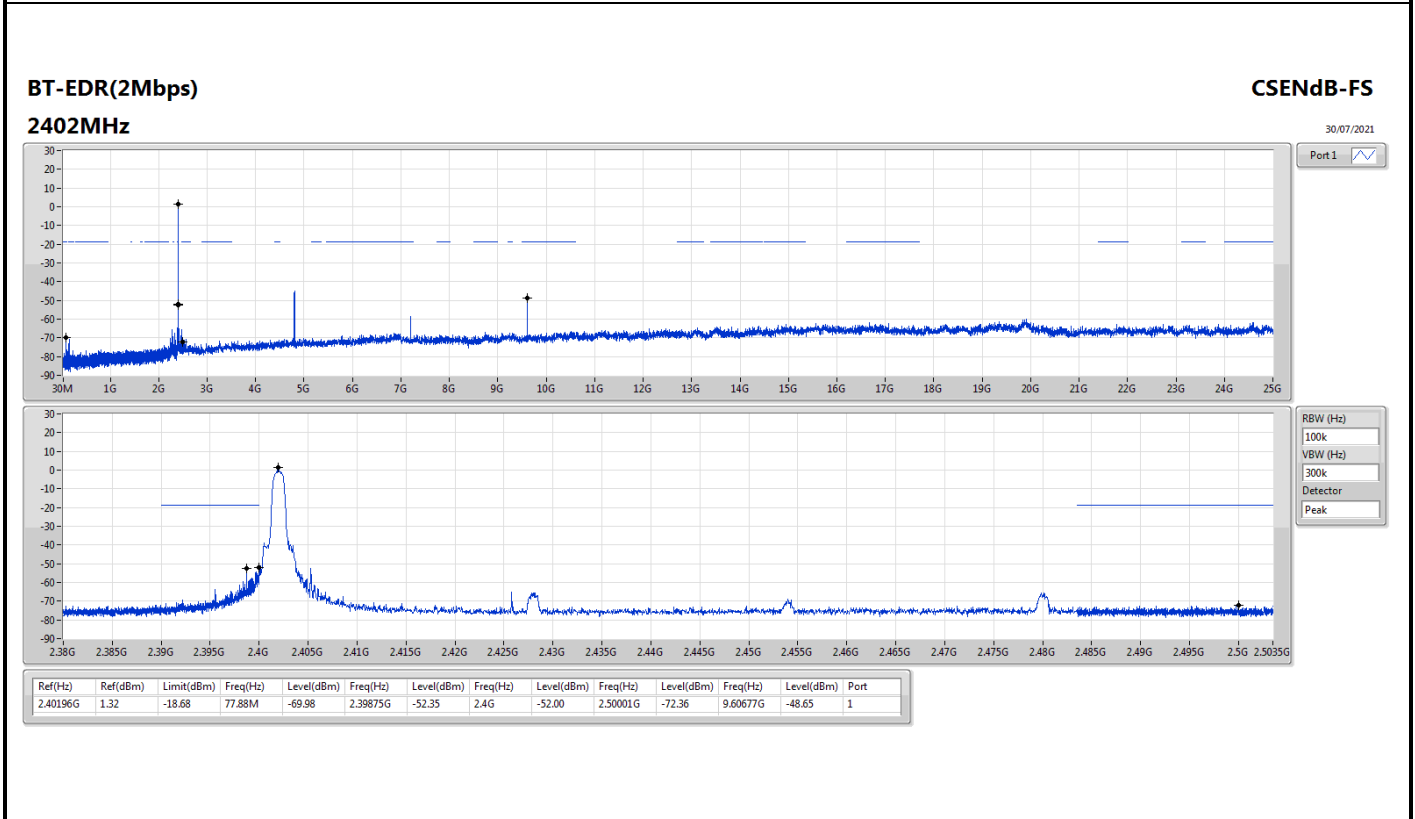
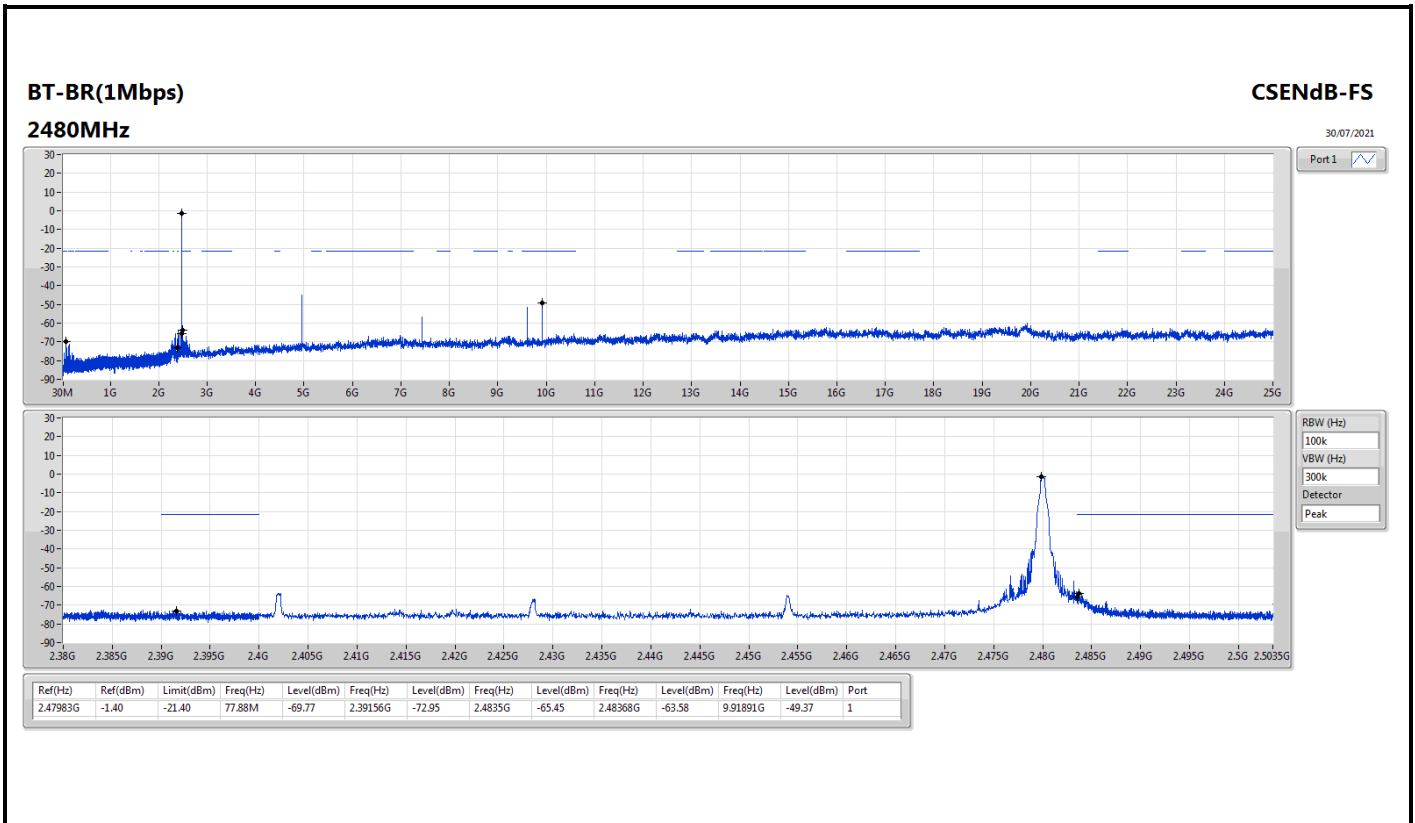
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.40184G	1.80	-18.20	77.88M	-69.40	2.39984G	-50.32	2.4G	-51.00	2.48943G	-72.36	9.60677G	-47.83	1
BT-EDR(2Mbps)	Pass	2.40196G	1.32	-18.68	77.88M	-69.98	2.39875G	-52.35	2.4G	-52.00	2.50001G	-72.36	9.60677G	-48.65	1
BT-EDR(3Mbps)	Pass	2.40196G	1.36	-18.64	77.88M	-69.71	2.39996G	-49.65	2.4G	-58.52	2.49957G	-71.88	9.60677G	-48.76	1

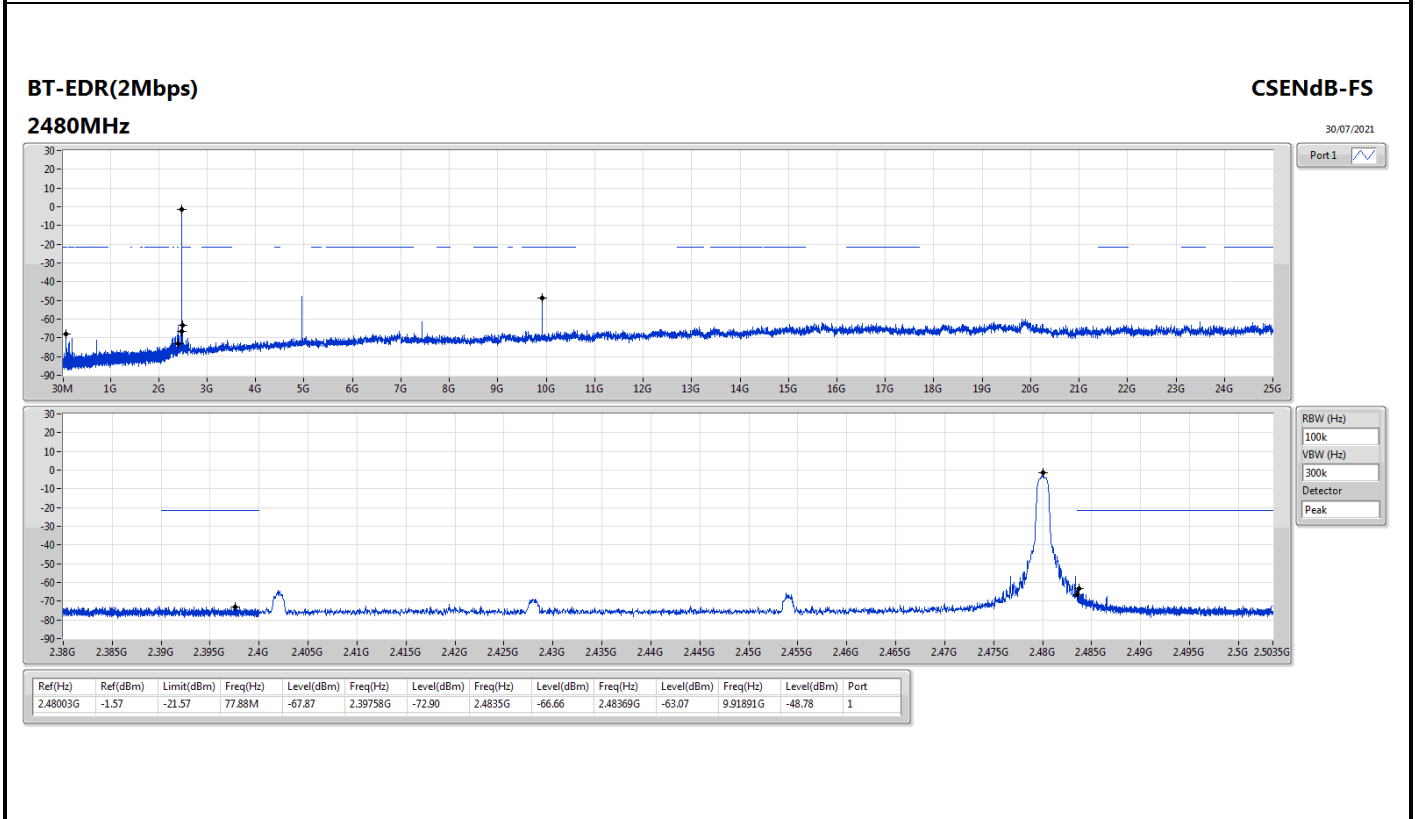
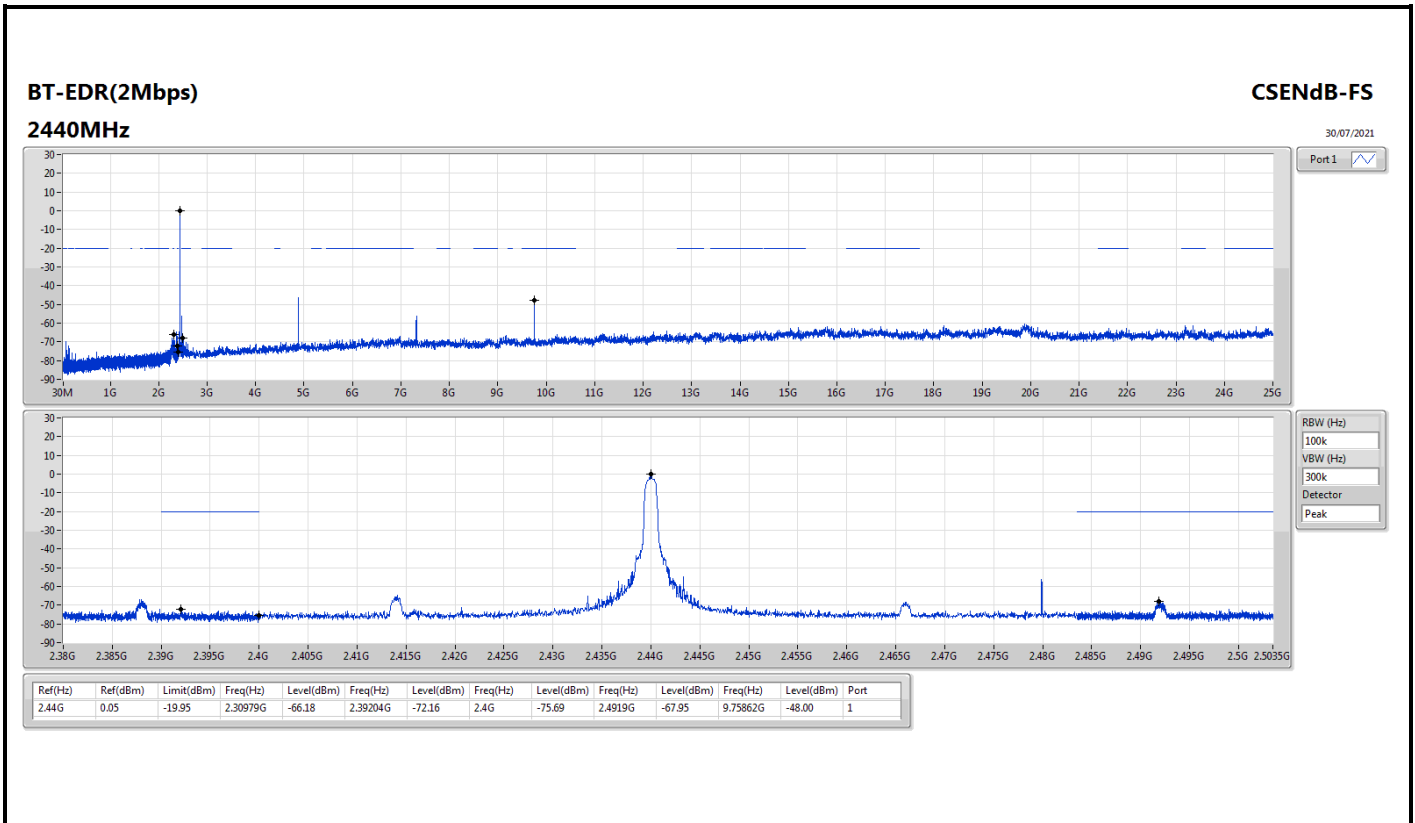


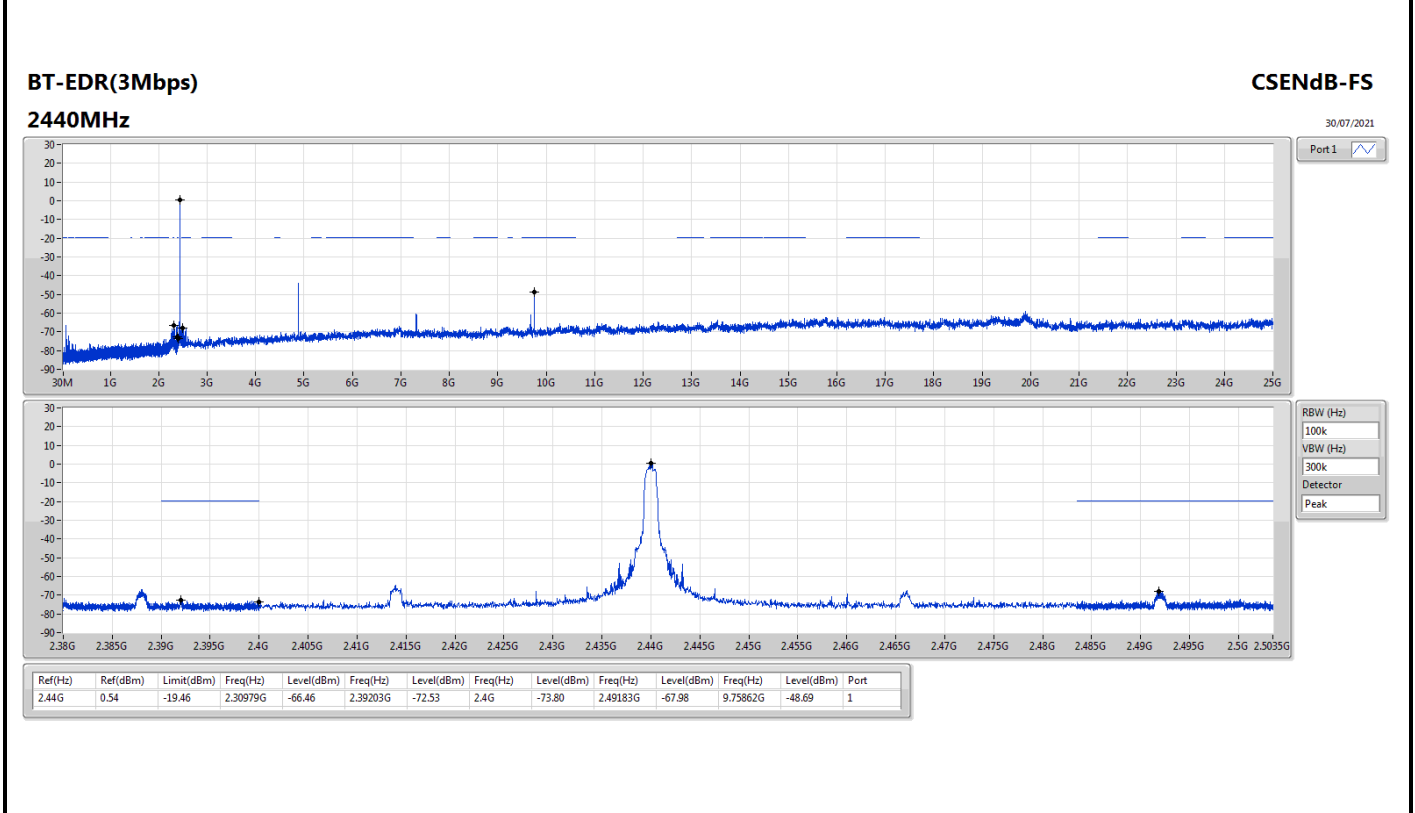
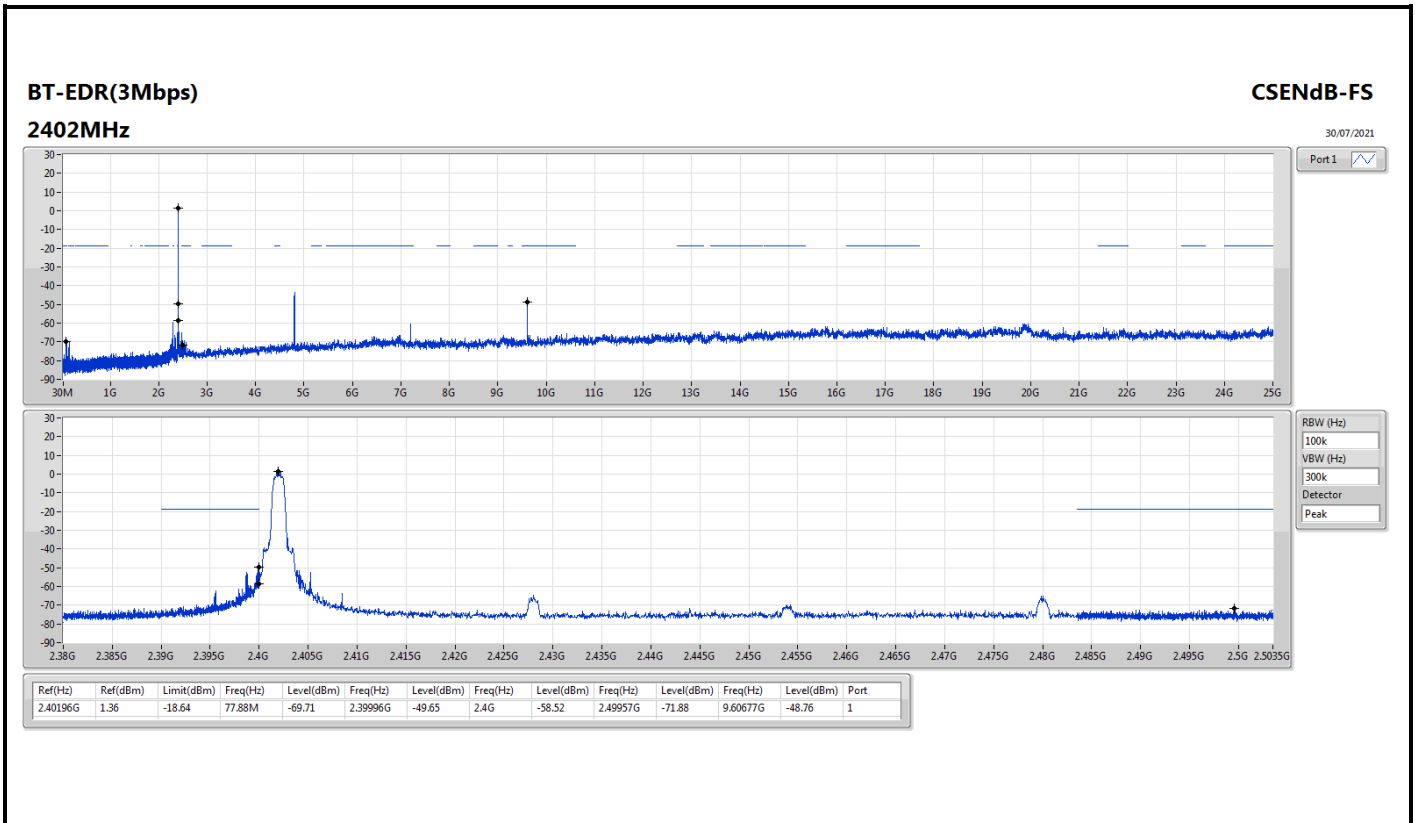
Result

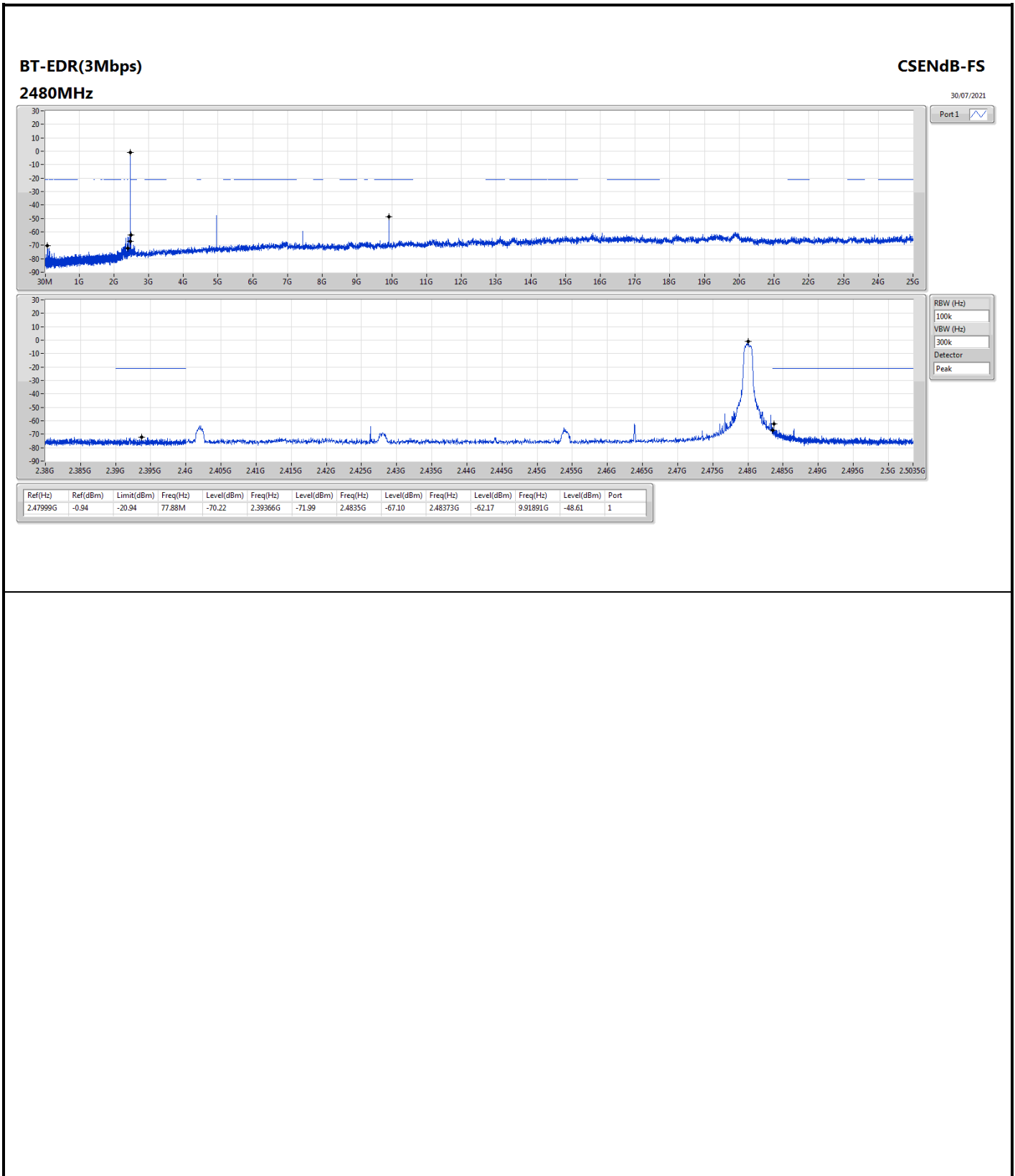
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40184G	1.80	-18.20	77.88M	-69.40	2.39984G	-50.32	2.4G	-51.00	2.48943G	-72.36	9.60677G	-47.83	1
2440MHz	Pass	2.43983G	0.54	-19.46	77.88M	-70.42	2.39204G	-71.88	2.4835G	-74.82	2.492G	-66.96	9.75862G	-48.31	1
2480MHz	Pass	2.47983G	-1.40	-21.40	77.88M	-69.77	2.39156G	-72.95	2.4835G	-65.45	2.48368G	-63.58	9.91891G	-49.37	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40196G	1.32	-18.68	77.88M	-69.98	2.39875G	-52.35	2.4G	-52.00	2.50001G	-72.36	9.60677G	-48.65	1
2440MHz	Pass	2.44G	0.05	-19.95	2.30979G	-66.18	2.39204G	-72.16	2.4G	-75.69	2.4919G	-67.95	9.75862G	-48.00	1
2480MHz	Pass	2.48003G	-1.57	-21.57	77.88M	-67.87	2.39758G	-72.90	2.4835G	-66.66	2.48369G	-63.07	9.91891G	-48.78	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40196G	1.36	-18.64	77.88M	-69.71	2.39996G	-49.65	2.4G	-58.52	2.49957G	-71.88	9.60677G	-48.76	1
2440MHz	Pass	2.44G	0.54	-19.46	2.30979G	-66.46	2.39203G	-72.53	2.4G	-73.80	2.49183G	-67.98	9.75862G	-48.69	1
2480MHz	Pass	2.47999G	-0.94	-20.94	77.88M	-70.22	2.39366G	-71.99	2.4835G	-67.10	2.48373G	-62.17	9.91891G	-48.61	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	30M	32.45	40.00	-7.55	3	Vertical	0	1.00	-

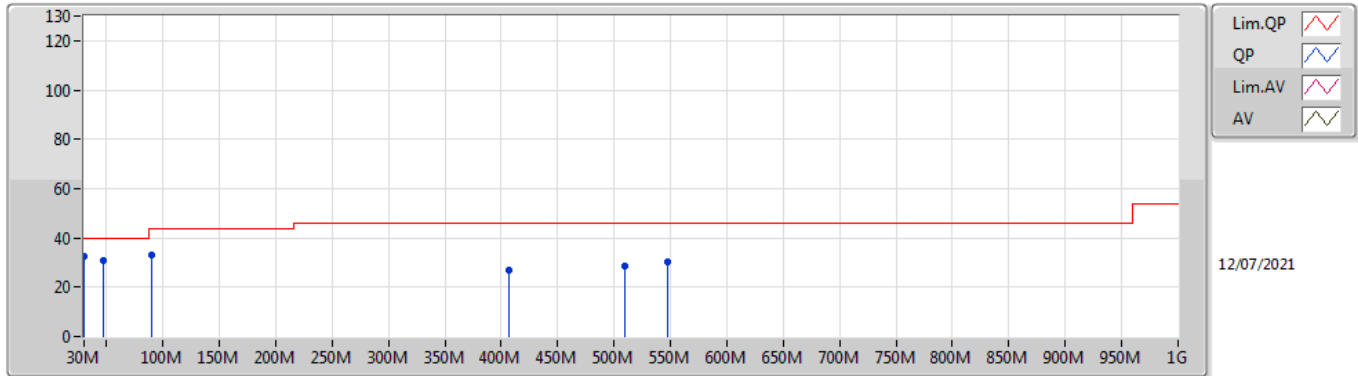


Result

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	30M	32.45	40.00	-7.55	3	Vertical	0	1.00	-
2440MHz	Pass	PK	47.46M	30.98	40.00	-9.02	3	Vertical	0	1.00	-
2440MHz	Pass	PK	90.14M	32.95	43.50	-10.55	3	Vertical	0	1.00	-
2440MHz	Pass	PK	406.36M	27.13	46.00	-18.87	3	Vertical	0	1.00	-
2440MHz	Pass	PK	509.18M	28.64	46.00	-17.36	3	Vertical	0	1.00	-
2440MHz	Pass	PK	547.98M	30.40	46.00	-15.60	3	Vertical	0	1.00	-
2440MHz	Pass	PK	30M	27.21	40.00	-12.79	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	49.4M	28.57	40.00	-11.43	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	90.14M	26.43	43.50	-17.07	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	641.1M	30.75	46.00	-15.25	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	939.86M	35.44	46.00	-10.56	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	955.38M	33.55	46.00	-12.45	3	Horizontal	360	1.00	-

BT-BR(1Mbps)

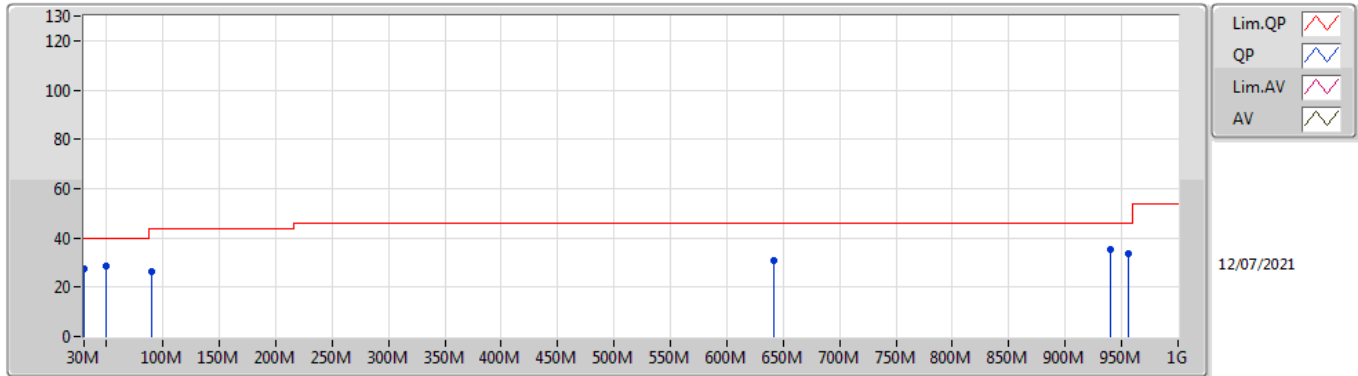
2440MHz_Switching power supply



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	32.45	40.00	-7.55	-2.81	3	Vertical	0	1.00	-	35.26	23.32	0.86	26.99
PK	47.46M	30.98	40.00	-9.02	-12.55	3	Vertical	0	1.00	-	43.53	14.05	1.04	27.64
PK	90.14M	32.95	43.50	-10.55	-12.41	3	Vertical	0	1.00	-	45.36	14.08	1.35	27.84
PK	406.36M	27.13	46.00	-18.87	-3.66	3	Vertical	0	1.00	-	30.79	21.40	2.76	27.82
PK	509.18M	28.64	46.00	-17.36	-2.42	3	Vertical	0	1.00	-	31.06	22.82	3.10	28.34
PK	547.98M	30.40	46.00	-15.60	-1.28	3	Vertical	0	1.00	-	31.68	23.85	3.19	28.32

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	27.21	40.00	-12.79	-2.81	3	Horizontal	360	1.00	-	30.02	23.32	0.86	26.99
PK	49.4M	28.57	40.00	-11.43	-13.24	3	Horizontal	360	1.00	-	41.81	13.40	1.06	27.70
PK	90.14M	26.43	43.50	-17.07	-12.41	3	Horizontal	360	1.00	-	38.84	14.08	1.35	27.84
PK	641.1M	30.75	46.00	-15.25	-0.48	3	Horizontal	360	1.00	-	31.23	24.32	3.44	28.24
PK	939.86M	35.44	46.00	-10.56	2.70	3	Horizontal	360	1.00	-	32.74	25.85	4.17	27.32
PK	955.38M	33.55	46.00	-12.45	3.01	3	Horizontal	360	1.00	-	30.54	26.07	4.20	27.26



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	2.3548G	59.75	74.00	-14.25	3	Horizontal	299	1.50	-
BT-EDR(3Mbps)	Pass	PK	2.3824G	59.95	74.00	-14.05	3	Horizontal	300	1.12	-



Result

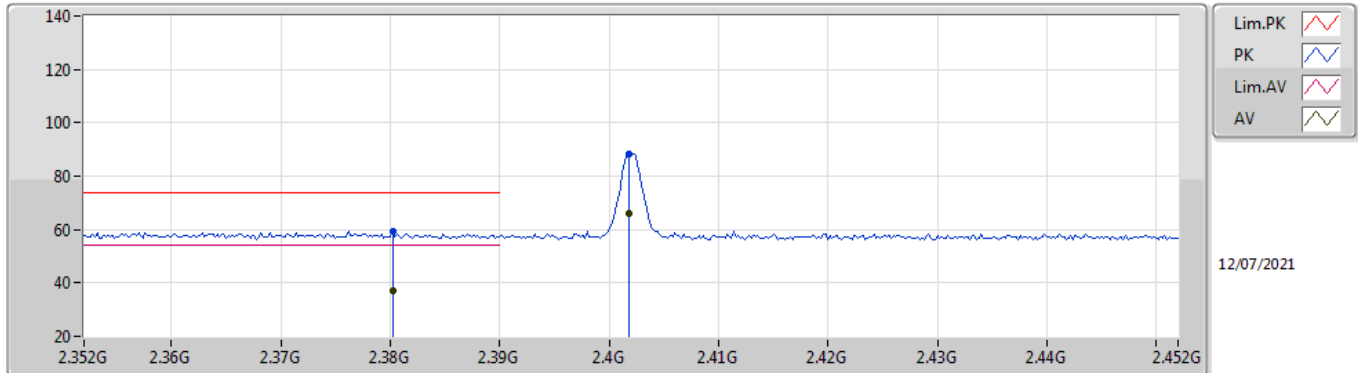
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3802G	36.86	54.00	-17.14	3	Vertical	303	2.10	-
2402MHz	Pass	AV	2.4018G	65.94	Inf	-Inf	3	Vertical	303	2.10	-
2402MHz	Pass	PK	2.3802G	59.36	74.00	-14.64	3	Vertical	303	2.10	-
2402MHz	Pass	PK	2.4018G	88.44	Inf	-Inf	3	Vertical	303	2.10	-
2402MHz	Pass	AV	2.3644G	36.91	54.00	-17.09	3	Horizontal	301	1.53	-
2402MHz	Pass	AV	2.4018G	62.02	Inf	-Inf	3	Horizontal	301	1.53	-
2402MHz	Pass	PK	2.3644G	59.41	74.00	-14.59	3	Horizontal	301	1.53	-
2402MHz	Pass	PK	2.4018G	84.52	Inf	-Inf	3	Horizontal	301	1.53	-
2402MHz	Pass	AV	4.80417G	23.23	54.00	-30.77	3	Vertical	50	3.00	-
2402MHz	Pass	PK	4.80417G	45.73	74.00	-28.27	3	Vertical	50	3.00	-
2402MHz	Pass	AV	4.80396G	23.23	54.00	-30.77	3	Horizontal	281	1.06	-
2402MHz	Pass	PK	4.80396G	45.73	74.00	-28.27	3	Horizontal	281	1.06	-
2440MHz	Pass	AV	2.3688G	37.01	54.00	-16.99	3	Vertical	303	1.93	-
2440MHz	Pass	AV	2.44G	62.95	Inf	-Inf	3	Vertical	303	1.93	-
2440MHz	Pass	AV	2.4864G	35.34	54.00	-18.66	3	Vertical	303	1.93	-
2440MHz	Pass	PK	2.3688G	59.51	74.00	-14.49	3	Vertical	303	1.93	-
2440MHz	Pass	PK	2.44G	85.45	Inf	-Inf	3	Vertical	303	1.93	-
2440MHz	Pass	PK	2.4864G	57.84	74.00	-16.16	3	Vertical	303	1.93	-
2440MHz	Pass	AV	2.3548G	37.25	54.00	-16.75	3	Horizontal	299	1.50	-
2440MHz	Pass	AV	2.44G	59.01	Inf	-Inf	3	Horizontal	299	1.50	-
2440MHz	Pass	AV	2.4972G	36.36	54.00	-17.64	3	Horizontal	299	1.50	-
2440MHz	Pass	PK	2.3548G	59.75	74.00	-14.25	3	Horizontal	299	1.50	-
2440MHz	Pass	PK	2.44G	81.51	Inf	-Inf	3	Horizontal	299	1.50	-
2440MHz	Pass	PK	2.4972G	58.86	74.00	-15.14	3	Horizontal	299	1.50	-
2440MHz	Pass	AV	4.87985G	21.89	54.00	-32.11	3	Vertical	274	3.00	-
2440MHz	Pass	PK	4.87985G	44.39	74.00	-29.61	3	Vertical	274	3.00	-
2440MHz	Pass	AV	4.87999G	21.88	54.00	-32.12	3	Horizontal	322	1.34	-
2440MHz	Pass	PK	4.87999G	44.38	74.00	-29.62	3	Horizontal	322	1.34	-
2480MHz	Pass	AV	2.48G	61.36	Inf	-Inf	3	Vertical	301	1.87	-
2480MHz	Pass	AV	2.4894G	35.76	54.00	-18.24	3	Vertical	301	1.87	-
2480MHz	Pass	PK	2.48G	83.86	Inf	-Inf	3	Vertical	301	1.87	-
2480MHz	Pass	PK	2.4894G	58.26	74.00	-15.74	3	Vertical	301	1.87	-
2480MHz	Pass	AV	2.4798G	61.98	Inf	-Inf	3	Horizontal	28	2.96	-
2480MHz	Pass	AV	2.4918G	35.61	54.00	-18.39	3	Horizontal	28	2.96	-
2480MHz	Pass	PK	2.4798G	82.68	Inf	-Inf	3	Horizontal	28	2.96	-
2480MHz	Pass	PK	2.4918G	58.11	74.00	-15.89	3	Horizontal	28	2.96	-
2480MHz	Pass	AV	4.95963G	22.57	54.00	-31.43	3	Vertical	284	2.50	-
2480MHz	Pass	PK	4.95963G	45.07	74.00	-28.93	3	Vertical	284	2.50	-
2480MHz	Pass	AV	4.95983G	21.75	54.00	-32.25	3	Horizontal	212	1.81	-
2480MHz	Pass	PK	4.95983G	44.25	74.00	-29.75	3	Horizontal	212	1.81	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3752G	36.45	54.00	-17.55	3	Vertical	302	2.10	-
2402MHz	Pass	AV	2.4022G	67.92	Inf	-Inf	3	Vertical	302	2.10	-
2402MHz	Pass	PK	2.3752G	58.95	74.00	-15.05	3	Vertical	302	2.10	-
2402MHz	Pass	PK	2.4022G	90.42	Inf	-Inf	3	Vertical	302	2.10	-
2402MHz	Pass	AV	2.3828G	36.48	54.00	-17.52	3	Horizontal	300	1.14	-
2402MHz	Pass	AV	2.4018G	63.89	Inf	-Inf	3	Horizontal	300	1.14	-
2402MHz	Pass	PK	2.3828G	58.98	74.00	-15.02	3	Horizontal	300	1.14	-
2402MHz	Pass	PK	2.4018G	86.39	Inf	-Inf	3	Horizontal	300	1.14	-
2402MHz	Pass	AV	4.80454G	21.79	54.00	-32.21	3	Vertical	61	1.54	-
2402MHz	Pass	PK	4.80454G	44.29	74.00	-29.71	3	Vertical	61	1.54	-
2402MHz	Pass	AV	4.80402G	22.86	54.00	-31.14	3	Horizontal	286	1.06	-
2402MHz	Pass	PK	4.80402G	45.36	74.00	-28.64	3	Horizontal	286	1.06	-
2440MHz	Pass	AV	2.3452G	36.40	54.00	-17.60	3	Vertical	299	1.87	-
2440MHz	Pass	AV	2.44G	65.44	Inf	-Inf	3	Vertical	299	1.87	-
2440MHz	Pass	AV	2.4944G	36.81	54.00	-17.19	3	Vertical	299	1.87	-
2440MHz	Pass	PK	2.3452G	59.00	74.00	-15.00	3	Vertical	299	1.87	-
2440MHz	Pass	PK	2.44G	87.94	Inf	-Inf	3	Vertical	299	1.87	-
2440MHz	Pass	PK	2.4944G	59.31	74.00	-14.69	3	Vertical	299	1.87	-
2440MHz	Pass	AV	2.3824G	37.45	54.00	-16.55	3	Horizontal	300	1.12	-



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	61.52	Inf	-Inf	3	Horizontal	300	1.12	-
2440MHz	Pass	AV	2.4892G	35.93	54.00	-18.07	3	Horizontal	300	1.12	-
2440MHz	Pass	PK	2.3824G	59.95	74.00	-14.05	3	Horizontal	300	1.12	-
2440MHz	Pass	PK	2.44G	84.02	Inf	-Inf	3	Horizontal	300	1.12	-
2440MHz	Pass	PK	2.4892G	58.43	74.00	-15.57	3	Horizontal	300	1.12	-
2440MHz	Pass	AV	4.8791G	22.47	54.00	-31.53	3	Vertical	275	3.00	-
2440MHz	Pass	PK	4.8791G	44.97	74.00	-29.03	3	Vertical	275	3.00	-
2440MHz	Pass	AV	4.87999G	21.72	54.00	-32.28	3	Horizontal	322	1.50	-
2440MHz	Pass	PK	4.87999G	44.22	74.00	-29.78	3	Horizontal	322	1.50	-
2480MHz	Pass	AV	2.4798G	62.52	Inf	-Inf	3	Vertical	303	1.88	-
2480MHz	Pass	AV	2.486G	36.08	54.00	-17.92	3	Vertical	303	1.88	-
2480MHz	Pass	PK	2.4798G	85.02	Inf	-Inf	3	Vertical	303	1.88	-
2480MHz	Pass	PK	2.486G	58.58	74.00	-15.42	3	Vertical	303	1.88	-
2480MHz	Pass	AV	2.4798G	61.97	Inf	-Inf	3	Horizontal	27	2.95	-
2480MHz	Pass	AV	2.4982G	35.76	54.00	-18.24	3	Horizontal	27	2.95	-
2480MHz	Pass	PK	2.4798G	84.47	Inf	-Inf	3	Horizontal	27	2.95	-
2480MHz	Pass	PK	2.4982G	58.26	74.00	-15.74	3	Horizontal	27	2.95	-
2480MHz	Pass	AV	4.96014G	22.85	54.00	-31.15	3	Vertical	285	2.95	-
2480MHz	Pass	PK	4.96014G	45.35	74.00	-28.65	3	Vertical	285	2.95	-
2480MHz	Pass	AV	4.95999G	22.20	54.00	-31.80	3	Horizontal	230	1.78	-
2480MHz	Pass	PK	4.95999G	44.70	74.00	-29.30	3	Horizontal	230	1.78	-

BT-BR(1Mbps)

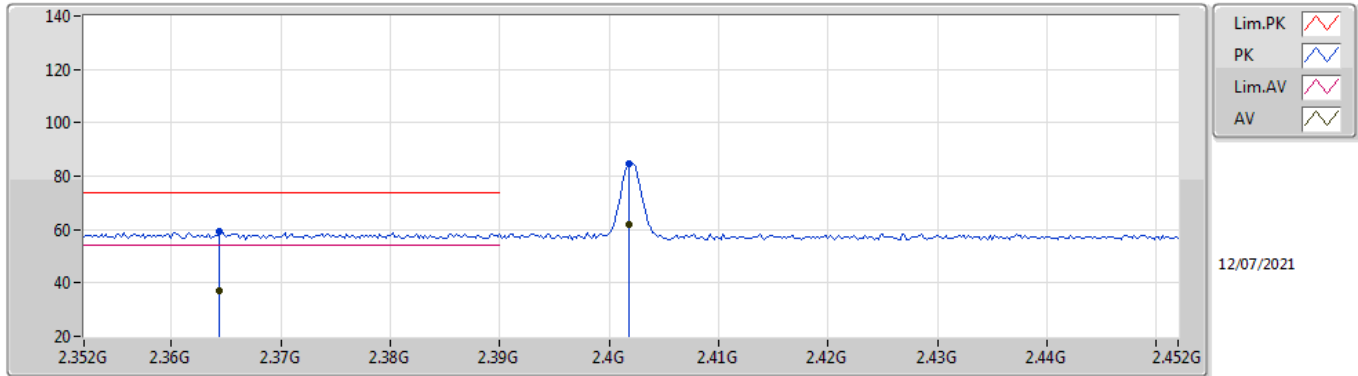
2402MHz_TX



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	2.3802G	36.86	54.00	-17.14	34.99	3	Vertical	303	2.10	-	1.87	27.74	7.25	-
AV	2.4018G	65.94	Inf	-Inf	34.95	3	Vertical	303	2.10	-	30.99	27.69	7.26	-
PK	2.3802G	59.36	74.00	-14.64	34.99	3	Vertical	303	2.10	-	24.37	27.74	7.25	-
PK	2.4018G	88.44	Inf	-Inf	34.95	3	Vertical	303	2.10	-	53.49	27.69	7.26	-

BT-BR(1Mbps)

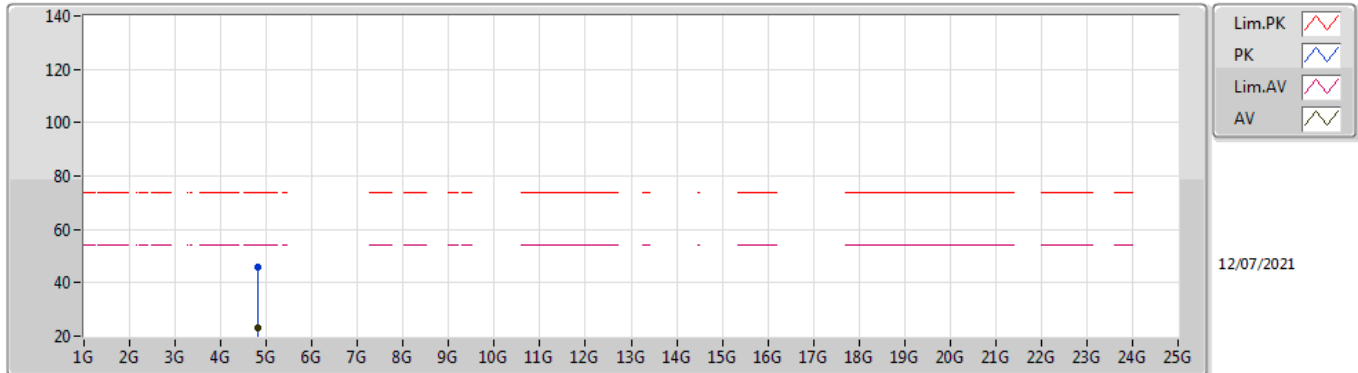
2402MHz_TX



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	2.3644G	36.91	54.00	-17.09	35.01	3	Horizontal	301	1.53	-	1.90	27.77	7.24	-
AV	2.4018G	62.02	Inf	-Inf	34.95	3	Horizontal	301	1.53	-	27.07	27.69	7.26	-
PK	2.3644G	59.41	74.00	-14.59	35.01	3	Horizontal	301	1.53	-	24.40	27.77	7.24	-
PK	2.4018G	84.52	Inf	-Inf	34.95	3	Horizontal	301	1.53	-	49.57	27.69	7.26	-

BT-BR(1Mbps)

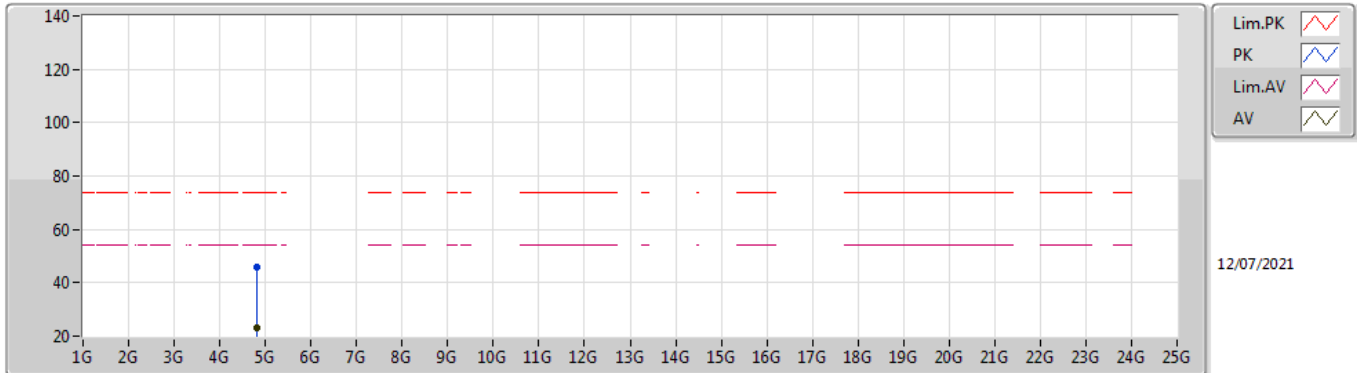
2402MHz_TX



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	4.80417G	23.23	54.00	-30.77	5.72	3	Vertical	50	3.00	-	17.51	31.11	8.90	34.29
PK	4.80417G	45.73	74.00	-28.27	5.72	3	Vertical	50	3.00	-	40.01	31.11	8.90	34.29

BT-BR(1Mbps)

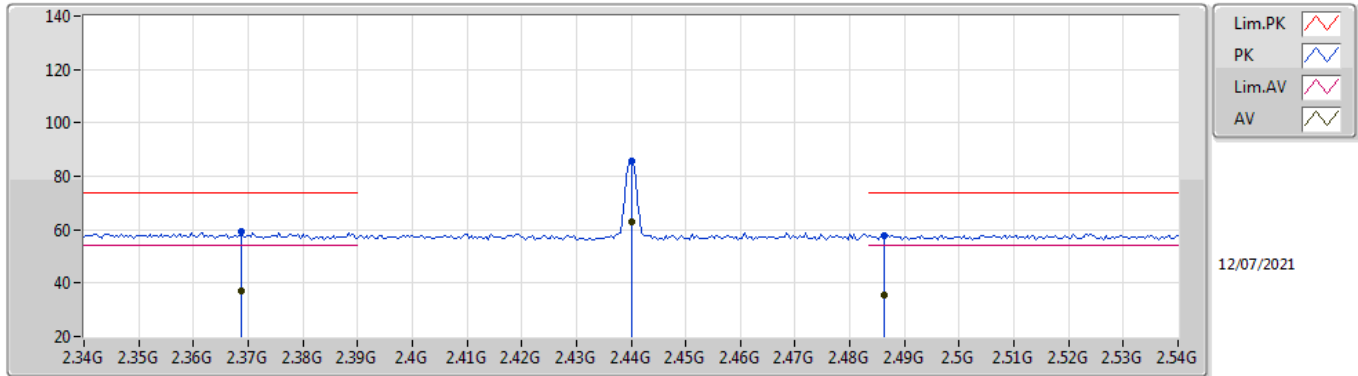
2402MHz_TX



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	4.80396G	23.23	54.00	-30.77	5.72	3	Horizontal	281	1.06	-	17.51	31.11	8.90	34.29
PK	4.80396G	45.73	74.00	-28.27	5.72	3	Horizontal	281	1.06	-	40.01	31.11	8.90	34.29

BT-BR(1Mbps)

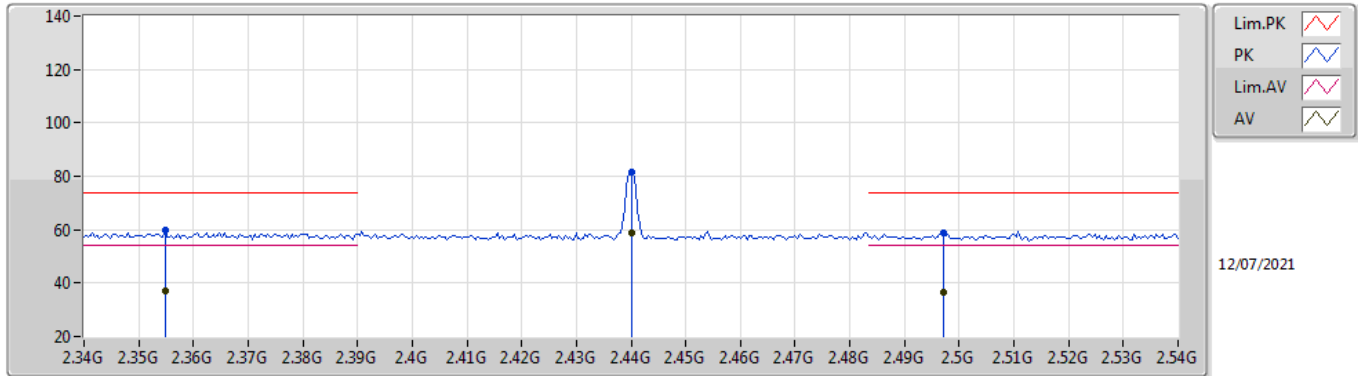
2440MHz_TX



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	37.01	54.00	-16.99	35.01	3	Vertical	303	1.93	-	2.00	27.76	7.25	-
AV	2.44G	62.95	Inf	-Inf	34.75	3	Vertical	303	1.93	-	28.20	27.46	7.29	-
AV	2.4864G	35.34	54.00	-18.66	34.73	3	Vertical	303	1.93	-	0.61	27.40	7.33	-
PK	2.3688G	59.51	74.00	-14.49	35.01	3	Vertical	303	1.93	-	24.50	27.76	7.25	-
PK	2.44G	85.45	Inf	-Inf	34.75	3	Vertical	303	1.93	-	50.70	27.46	7.29	-
PK	2.4864G	57.84	74.00	-16.16	34.73	3	Vertical	303	1.93	-	23.11	27.40	7.33	-

BT-BR(1Mbps)

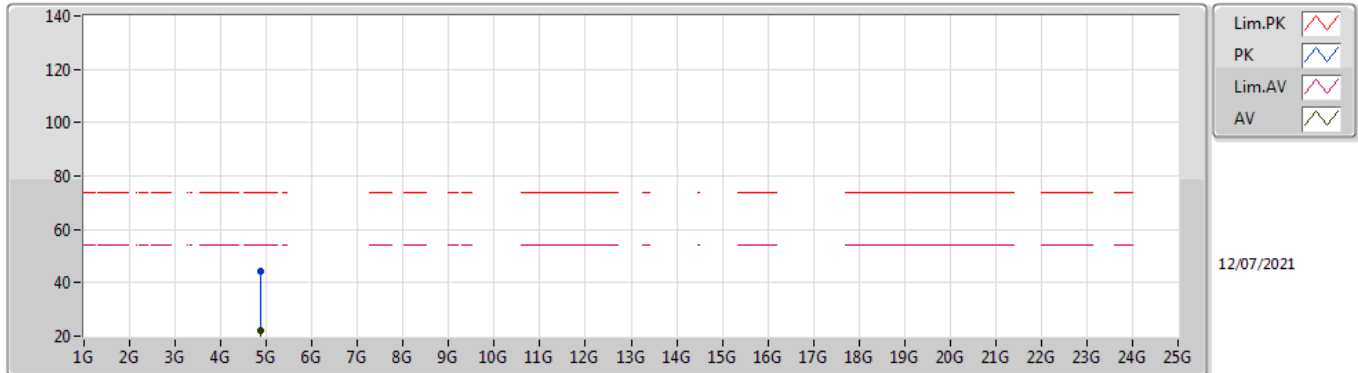
2440MHz_TX



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	2.3548G	37.25	54.00	-16.75	35.03	3	Horizontal	299	1.50	-	2.22	27.79	7.24	-
AV	2.44G	59.01	Inf	-Inf	34.75	3	Horizontal	299	1.50	-	24.26	27.46	7.29	-
AV	2.4972G	36.36	54.00	-17.64	34.74	3	Horizontal	299	1.50	-	1.62	27.40	7.34	-
PK	2.3548G	59.75	74.00	-14.25	35.03	3	Horizontal	299	1.50	-	24.72	27.79	7.24	-
PK	2.44G	81.51	Inf	-Inf	34.75	3	Horizontal	299	1.50	-	46.76	27.46	7.29	-
PK	2.4972G	58.86	74.00	-15.14	34.74	3	Horizontal	299	1.50	-	24.12	27.40	7.34	-

BT-BR(1Mbps)

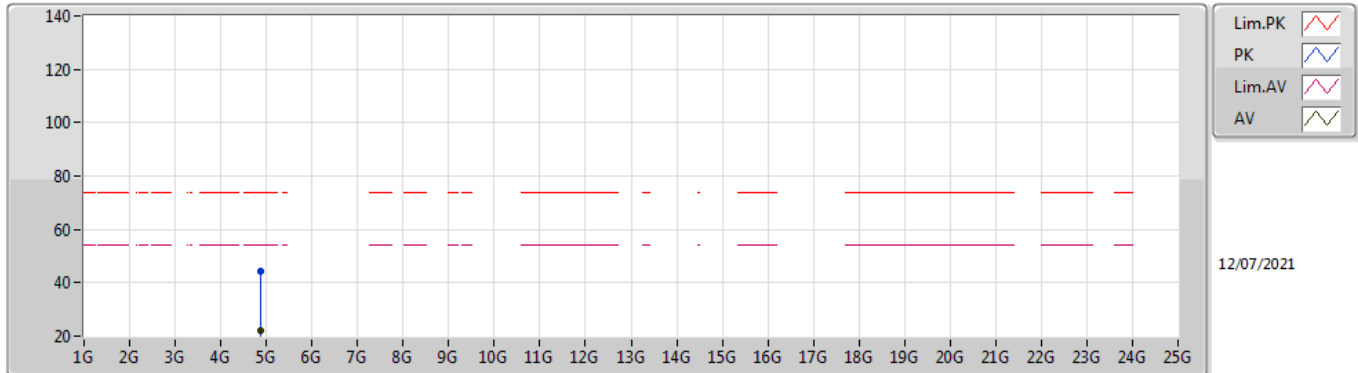
2440MHz_TX



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	4.87985G	21.89	54.00	-32.11	5.90	3	Vertical	274	3.00	-	15.99	31.20	8.96	34.26
PK	4.87985G	44.39	74.00	-29.61	5.90	3	Vertical	274	3.00	-	38.49	31.20	8.96	34.26

BT-BR(1Mbps)

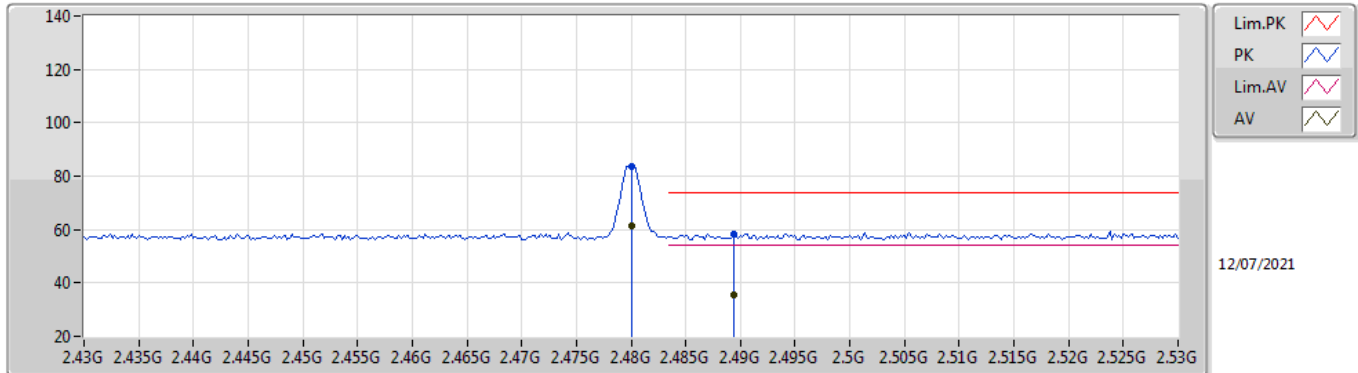
2440MHz_TX



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	4.87999G	21.88	54.00	-32.12	5.90	3	Horizontal	322	1.34	-	15.98	31.20	8.96	34.26
PK	4.87999G	44.38	74.00	-29.62	5.90	3	Horizontal	322	1.34	-	38.48	31.20	8.96	34.26

BT-BR(1Mbps)

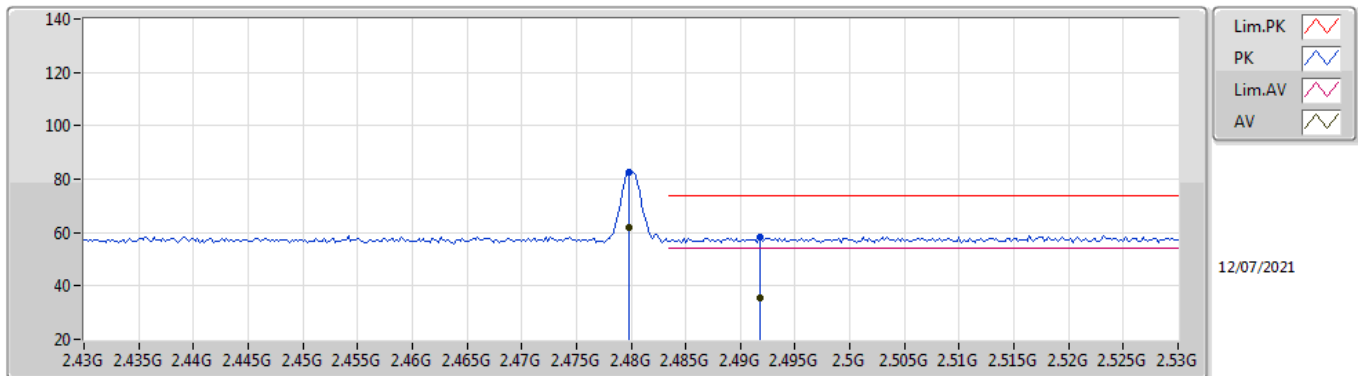
2480MHz_TX



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	2.48G	61.36	Inf	-Inf	34.72	3	Vertical	301	1.87	-	26.64	27.40	7.32	-
AV	2.4894G	35.76	54.00	-18.24	34.73	3	Vertical	301	1.87	-	1.03	27.40	7.33	-
PK	2.48G	83.86	Inf	-Inf	34.72	3	Vertical	301	1.87	-	49.14	27.40	7.32	-
PK	2.4894G	58.26	74.00	-15.74	34.73	3	Vertical	301	1.87	-	23.53	27.40	7.33	-

BT-BR(1Mbps)

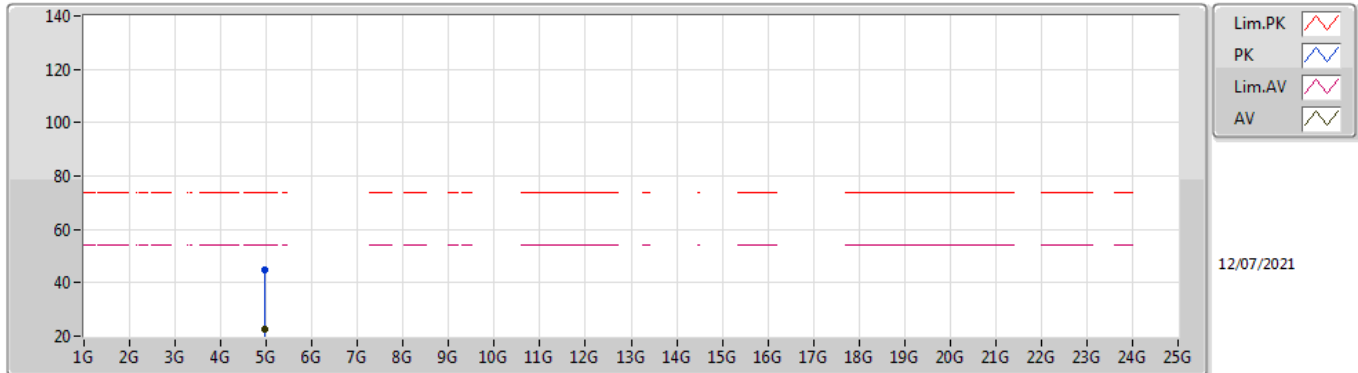
2480MHz_TX



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	61.98	Inf	-Inf	34.72	3	Horizontal	28	2.96	-	27.26	27.40	7.32	-
AV	2.4918G	35.61	54.00	-18.39	34.73	3	Horizontal	28	2.96	-	0.88	27.40	7.33	-
PK	2.4798G	82.68	Inf	-Inf	34.72	3	Horizontal	28	2.96	-	47.96	27.40	7.32	-
PK	2.4918G	58.11	74.00	-15.89	34.73	3	Horizontal	28	2.96	-	23.38	27.40	7.33	-

BT-BR(1Mbps)

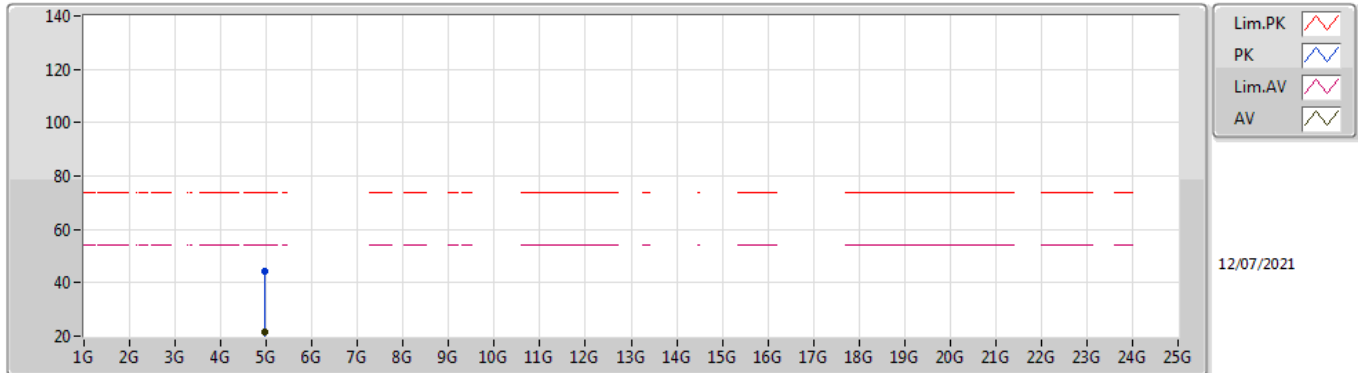
2480MHz_TX



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	4.95963G	22.57	54.00	-31.43	6.21	3	Vertical	284	2.50	-	16.36	31.42	9.02	34.23
PK	4.95963G	45.07	74.00	-28.93	6.21	3	Vertical	284	2.50	-	38.86	31.42	9.02	34.23

BT-BR(1Mbps)

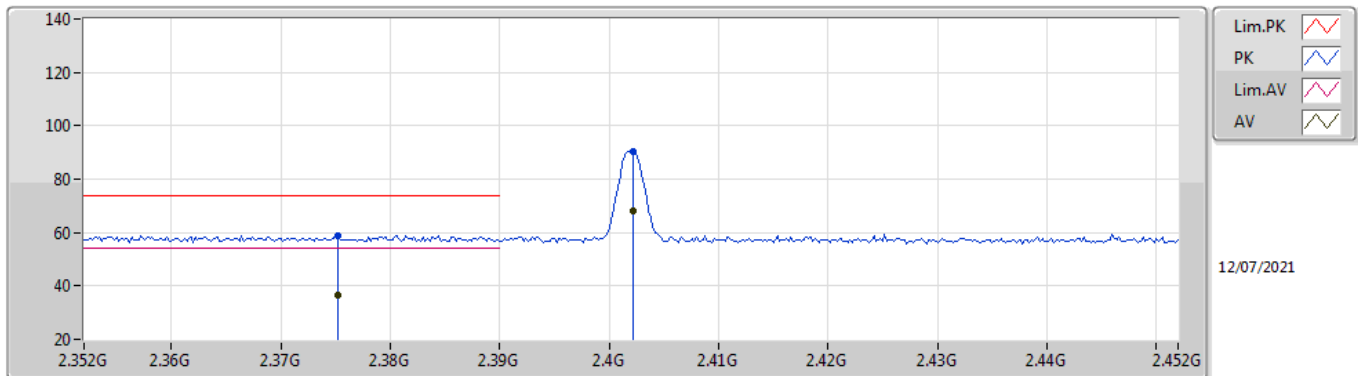
2480MHz_TX



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	4.95983G	21.75	54.00	-32.25	6.21	3	Horizontal	212	1.81	-	15.54	31.42	9.02	34.23
PK	4.95983G	44.25	74.00	-29.75	6.21	3	Horizontal	212	1.81	-	38.04	31.42	9.02	34.23

BT-EDR(3Mbps)

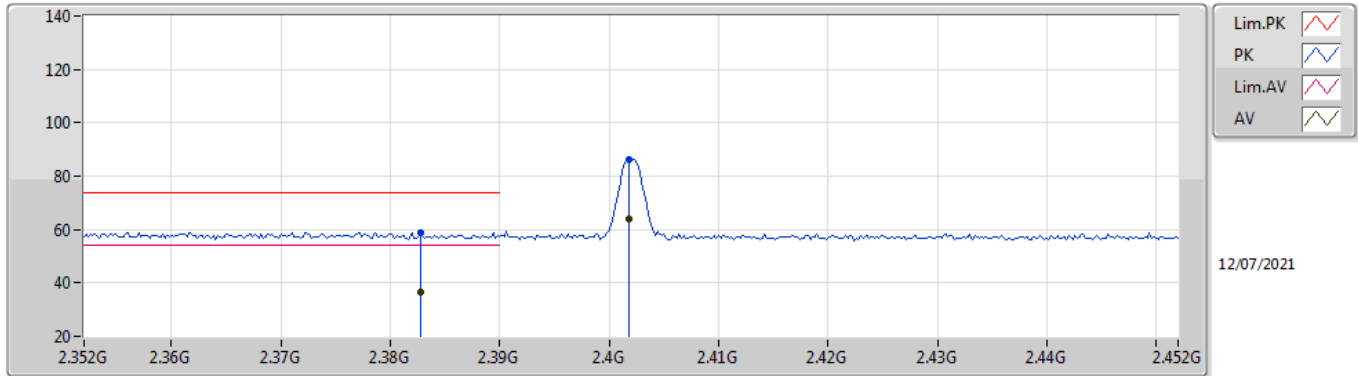
2402MHz_TX



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	2.3752G	36.45	54.00	-17.55	35.00	3	Vertical	302	2.10	-	1.45	27.75	7.25	-
AV	2.4022G	67.92	Inf	-Inf	34.95	3	Vertical	302	2.10	-	32.97	27.69	7.26	-
PK	2.3752G	58.95	74.00	-15.05	35.00	3	Vertical	302	2.10	-	23.95	27.75	7.25	-
PK	2.4022G	90.42	Inf	-Inf	34.95	3	Vertical	302	2.10	-	55.47	27.69	7.26	-

BT-EDR(3Mbps)

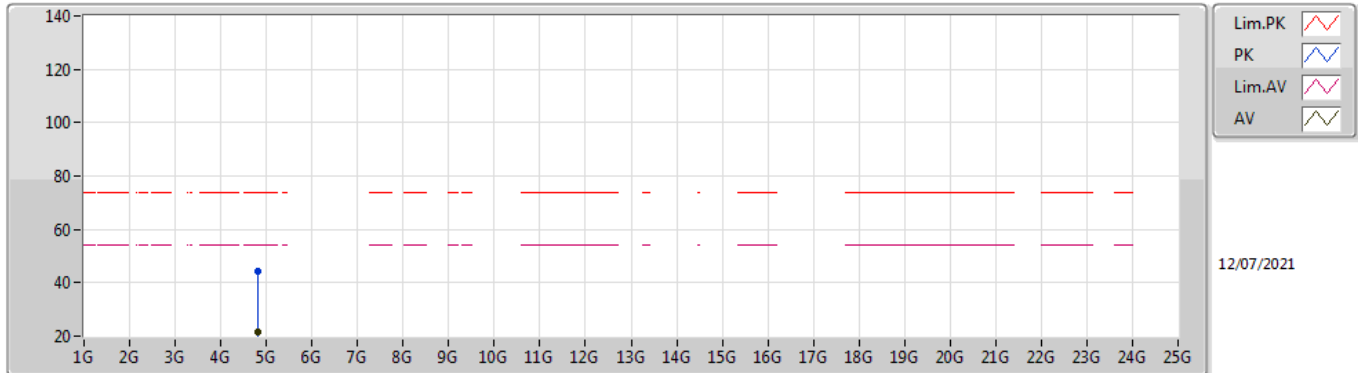
2402MHz_TX



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	2.3828G	36.48	54.00	-17.52	34.98	3	Horizontal	300	1.14	-	1.50	27.73	7.25	-
AV	2.4018G	63.89	Inf	-Inf	34.95	3	Horizontal	300	1.14	-	28.94	27.69	7.26	-
PK	2.3828G	58.98	74.00	-15.02	34.98	3	Horizontal	300	1.14	-	24.00	27.73	7.25	-
PK	2.4018G	86.39	Inf	-Inf	34.95	3	Horizontal	300	1.14	-	51.44	27.69	7.26	-

BT-EDR(3Mbps)

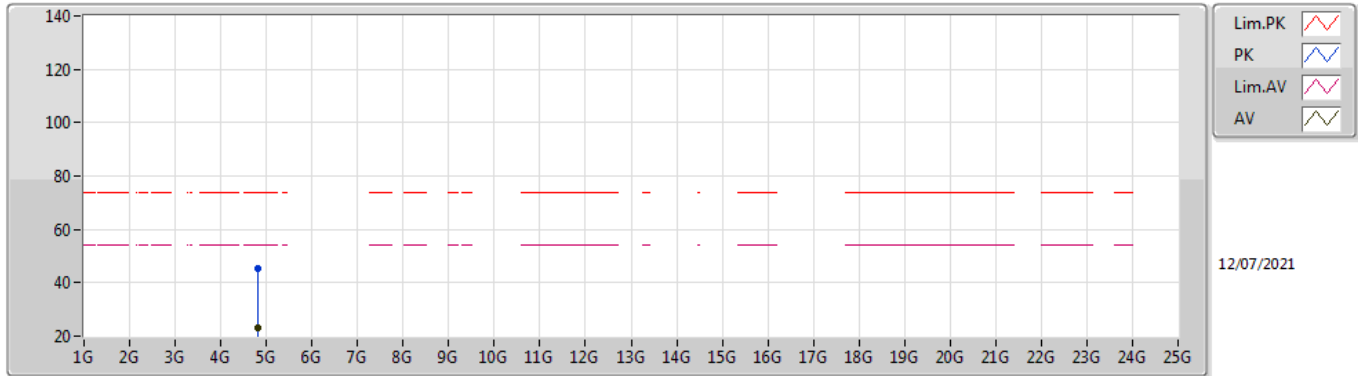
2402MHz_TX



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	4.80454G	21.79	54.00	-32.21	5.72	3	Vertical	61	1.54	-	16.07	31.11	8.90	34.29
PK	4.80454G	44.29	74.00	-29.71	5.72	3	Vertical	61	1.54	-	38.57	31.11	8.90	34.29

BT-EDR(3Mbps)

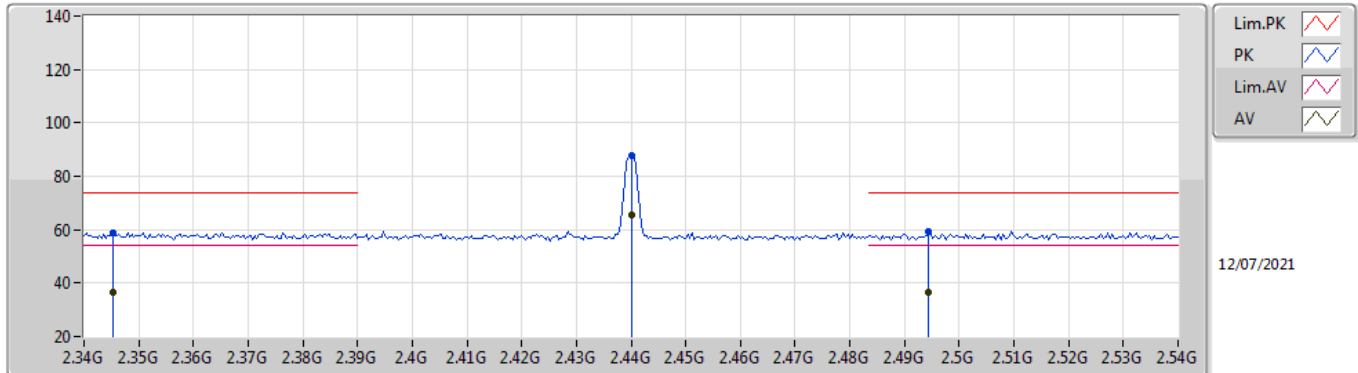
2402MHz_TX



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	4.80402G	22.86	54.00	-31.14	5.72	3	Horizontal	286	1.06	-	17.14	31.11	8.90	34.29
PK	4.80402G	45.36	74.00	-28.64	5.72	3	Horizontal	286	1.06	-	39.64	31.11	8.90	34.29

BT-EDR(3Mbps)

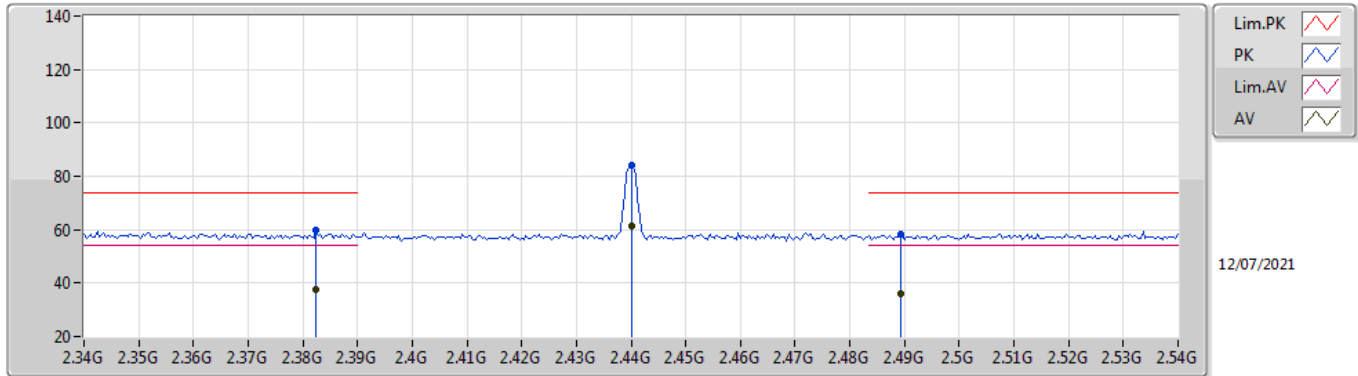
2440MHz_TX



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	2.3452G	36.40	54.00	-17.60	35.05	3	Vertical	299	1.87	-	1.35	27.81	7.24	-
AV	2.44G	65.44	Inf	-Inf	34.75	3	Vertical	299	1.87	-	30.69	27.46	7.29	-
AV	2.4944G	36.81	54.00	-17.19	34.74	3	Vertical	299	1.87	-	2.07	27.40	7.34	-
PK	2.3452G	59.00	74.00	-15.00	35.05	3	Vertical	299	1.87	-	23.95	27.81	7.24	-
PK	2.44G	87.94	Inf	-Inf	34.75	3	Vertical	299	1.87	-	53.19	27.46	7.29	-
PK	2.4944G	59.31	74.00	-14.69	34.74	3	Vertical	299	1.87	-	24.57	27.40	7.34	-

BT-EDR(3Mbps)

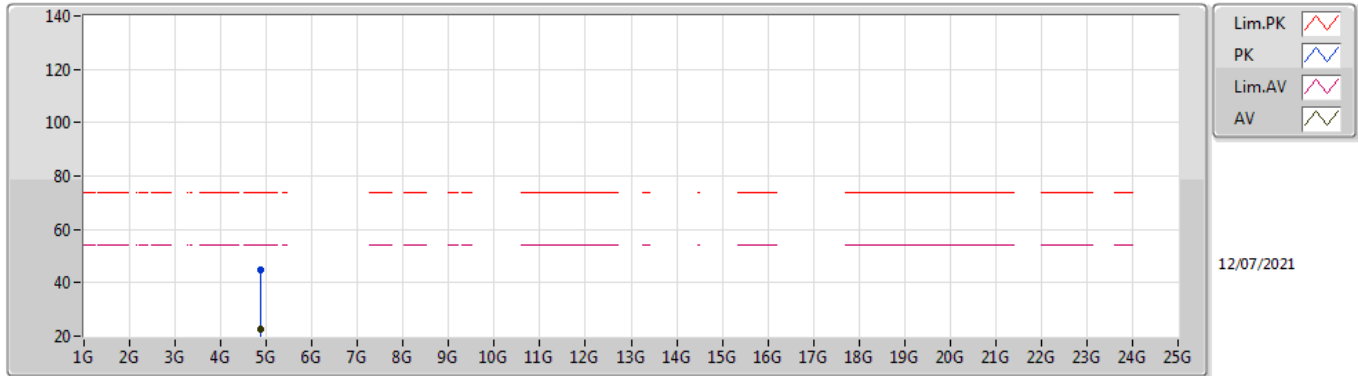
2440MHz_TX



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	2.3824G	37.45	54.00	-16.55	34.99	3	Horizontal	300	1.12	-	2.46	27.74	7.25	-
AV	2.44G	61.52	Inf	-Inf	34.75	3	Horizontal	300	1.12	-	26.77	27.46	7.29	-
AV	2.4892G	35.93	54.00	-18.07	34.73	3	Horizontal	300	1.12	-	1.20	27.40	7.33	-
PK	2.3824G	59.95	74.00	-14.05	34.99	3	Horizontal	300	1.12	-	24.96	27.74	7.25	-
PK	2.44G	84.02	Inf	-Inf	34.75	3	Horizontal	300	1.12	-	49.27	27.46	7.29	-
PK	2.4892G	58.43	74.00	-15.57	34.73	3	Horizontal	300	1.12	-	23.70	27.40	7.33	-

BT-EDR(3Mbps)

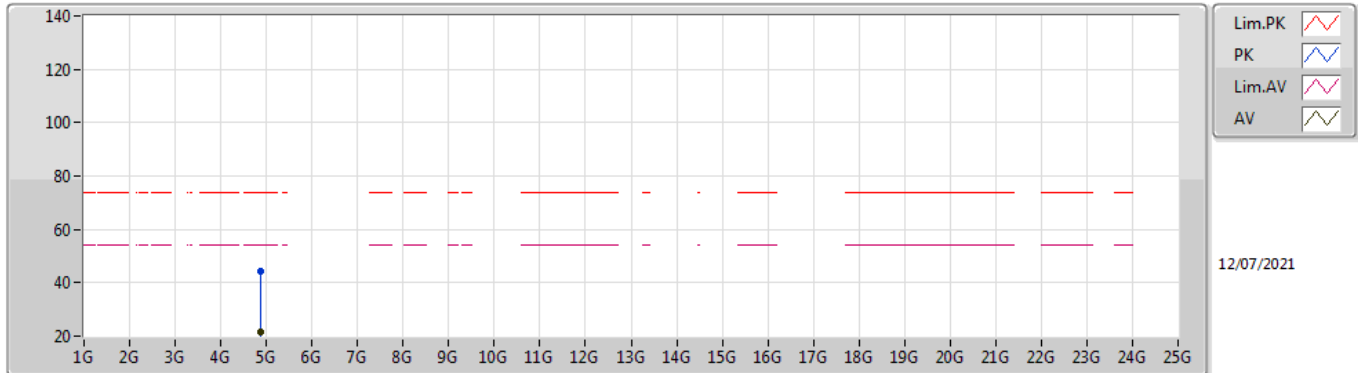
2440MHz_TX



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	4.8791G	22.47	54.00	-31.53	5.90	3	Vertical	275	3.00	-	16.57	31.20	8.96	34.26
PK	4.8791G	44.97	74.00	-29.03	5.90	3	Vertical	275	3.00	-	39.07	31.20	8.96	34.26

BT-EDR(3Mbps)

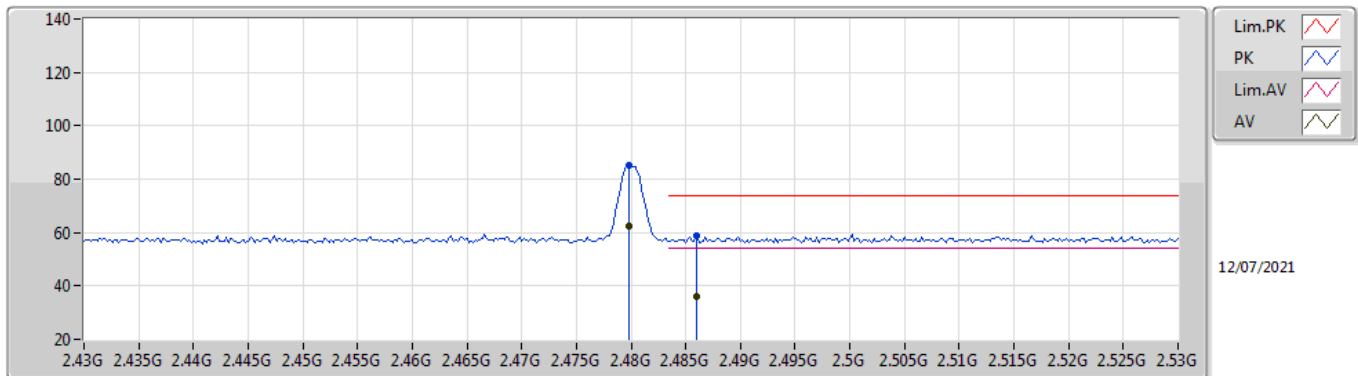
2440MHz_TX



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	4.87999G	21.72	54.00	-32.28	5.90	3	Horizontal	322	1.50	-	15.82	31.20	8.96	34.26
PK	4.87999G	44.22	74.00	-29.78	5.90	3	Horizontal	322	1.50	-	38.32	31.20	8.96	34.26

BT-EDR(3Mbps)

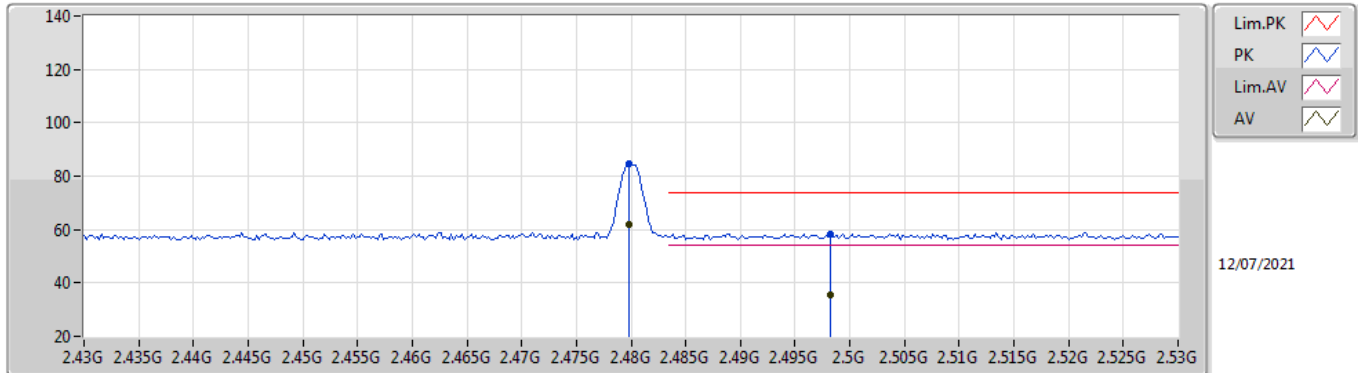
2480MHz_TX



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	2.4798G	62.52	Inf	-Inf	34.72	3	Vertical	303	1.88	-	27.80	27.40	7.32	-
AV	2.486G	36.08	54.00	-17.92	34.73	3	Vertical	303	1.88	-	1.35	27.40	7.33	-
PK	2.4798G	85.02	Inf	-Inf	34.72	3	Vertical	303	1.88	-	50.30	27.40	7.32	-
PK	2.486G	58.58	74.00	-15.42	34.73	3	Vertical	303	1.88	-	23.85	27.40	7.33	-

BT-EDR(3Mbps)

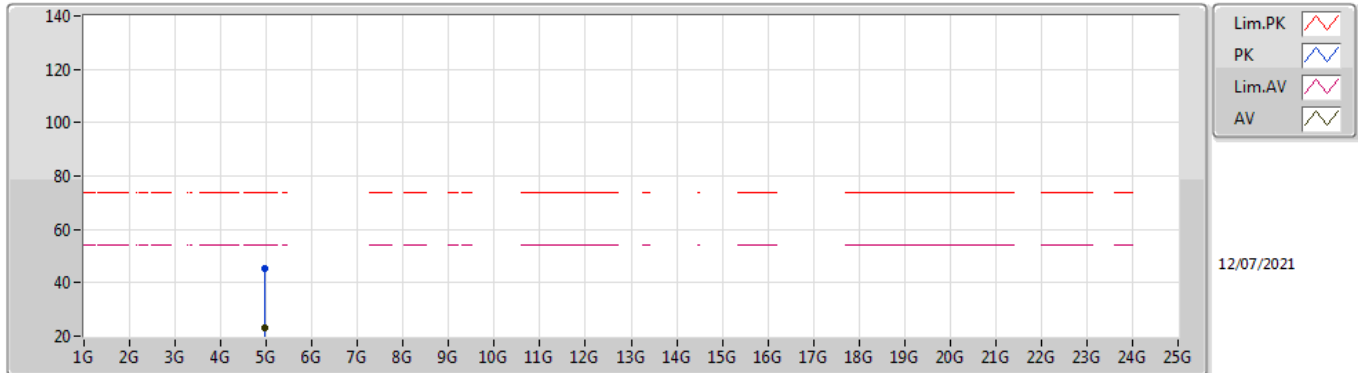
2480MHz_TX



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	2.4798G	61.97	Inf	-Inf	34.72	3	Horizontal	27	2.95	-	27.25	27.40	7.32	-
AV	2.4982G	35.76	54.00	-18.24	34.74	3	Horizontal	27	2.95	-	1.02	27.40	7.34	-
PK	2.4798G	84.47	Inf	-Inf	34.72	3	Horizontal	27	2.95	-	49.75	27.40	7.32	-
PK	2.4982G	58.26	74.00	-15.74	34.74	3	Horizontal	27	2.95	-	23.52	27.40	7.34	-

BT-EDR(3Mbps)

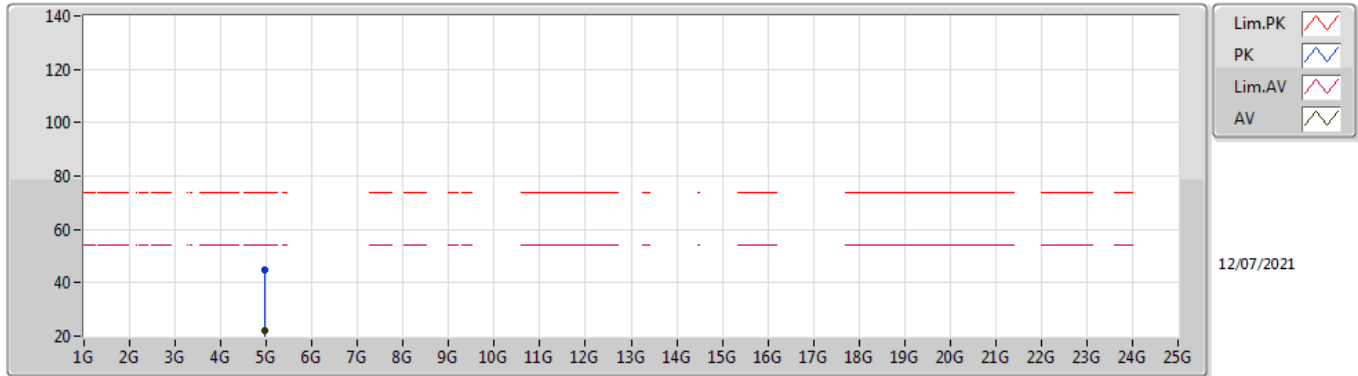
2480MHz_TX



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	4.96014G	22.85	54.00	-31.15	6.21	3	Vertical	285	2.95	-	16.64	31.42	9.02	34.23
PK	4.96014G	45.35	74.00	-28.65	6.21	3	Vertical	285	2.95	-	39.14	31.42	9.02	34.23

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	4.95999G	22.20	54.00	-31.80	6.21	3	Horizontal	230	1.78	-	15.99	31.42	9.02	34.23
PK	4.95999G	44.70	74.00	-29.30	6.21	3	Horizontal	230	1.78	-	38.49	31.42	9.02	34.23