

FCC Test Report

FCC ID : H8N-ASK-STI6220
Equipment : Stream TV
Brand Name : Verizon
Model Name : ASK-STI6220
Applicant : Askey Computer Corp.
10F, No.119, Jiankang Road, Zhonghe Dist., New Taipei
City, Taiwan
Manufacturer : Askey Computer Corp.
10F, No.119, Jiankang Road, Zhonghe Dist., New Taipei
City, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Sep. 10, 2020, and testing was started from Sep. 10, 2020 and completed on Sep. 24, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, 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: Yunha Liou

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	INPAQ	RFMTA250900NNLB002	PIFA antenna	N/A
2	INPAQ	RFMTA250900NNLB002	PIFA antenna	N/A

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	1.41	1.41	1.41
2	2	1.86	0.83	-

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

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

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

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

For BT function:

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

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

For 5GHz function:

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

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



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 AC Adapter
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)	0.768	1.15	2.873m	1k
BT-EDR(2Mbps)	0.738	1.32	2.876m	1k
BT-EDR(3Mbps)	0.782	1.07	2.878m	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

Testing Location		
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.		
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) TEL : 886-3-656-9065 FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.		
<input type="checkbox"/>	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL : 886-3-318-0787 FAX : 886-3-318-0287
Test site Designation No. TW1097 with FCC.		

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	22.8~23.6°C / 56~60%	24/Sep/2020
RF Conducted	TH06-HY	Alan Chien	20.1~26.9°C / 50~60%	10/Sep/2020~19/Sep/2020
Radiated	03CH02-HY	Daniel Lin	20.0~25.6°C / 51~62%	09/Sep/2020~23/Sep/2020



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 Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode




Test Software Version	Dos1.6
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Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	0
2440MHz	0
2480MHz	0
BT-EDR(2Mbps)	-
2402MHz	0
2440MHz	0
2480MHz	0
BT-EDR(3Mbps)	-
2402MHz	0
2440MHz	0
2480MHz	0

2.3 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
Operating Mode	CTX
1	Adapter 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 checked="" type="checkbox"/> adaptive frequency hopping systems (AFH)
Non-AFH Mode configuration was found to be the worst case and measured during the test.	

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA091025 for Co-location RF Exposure Evaluation and Appendix H for Radiated Emission Co-location.	

2.4 Accessories

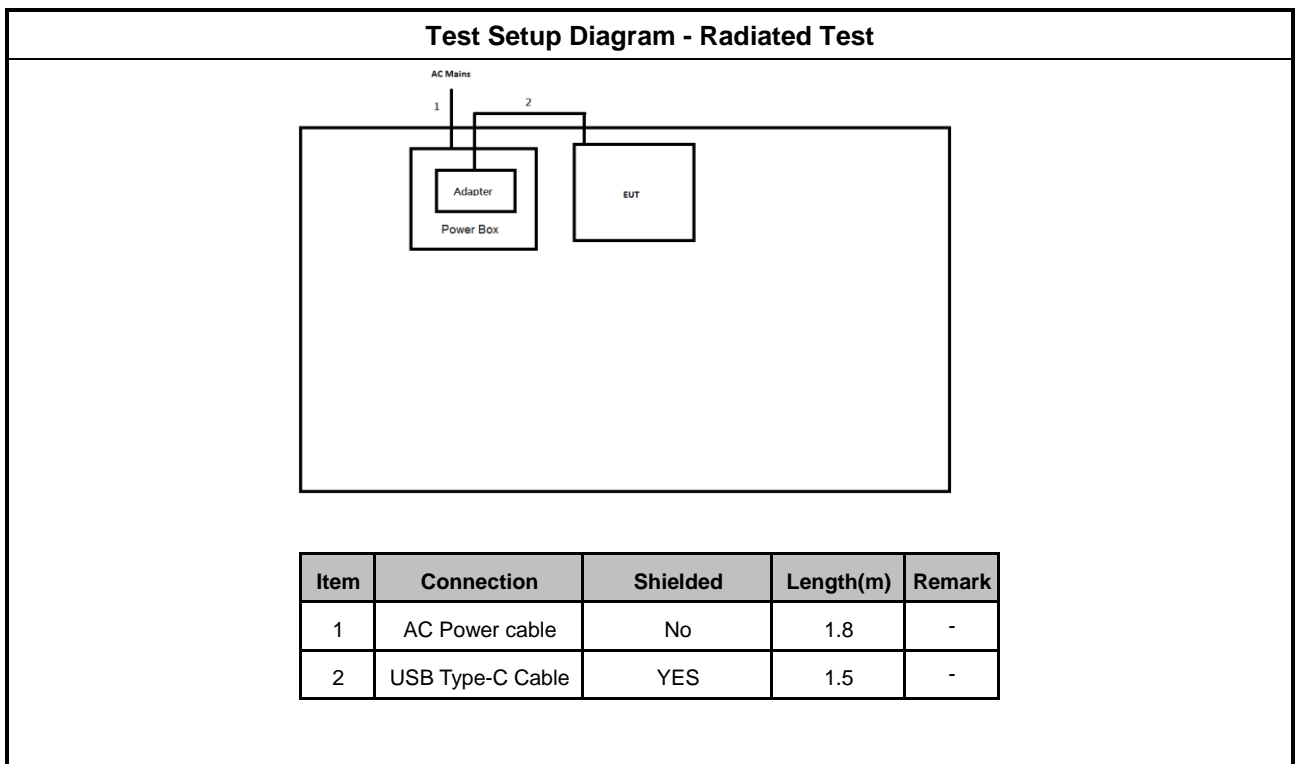
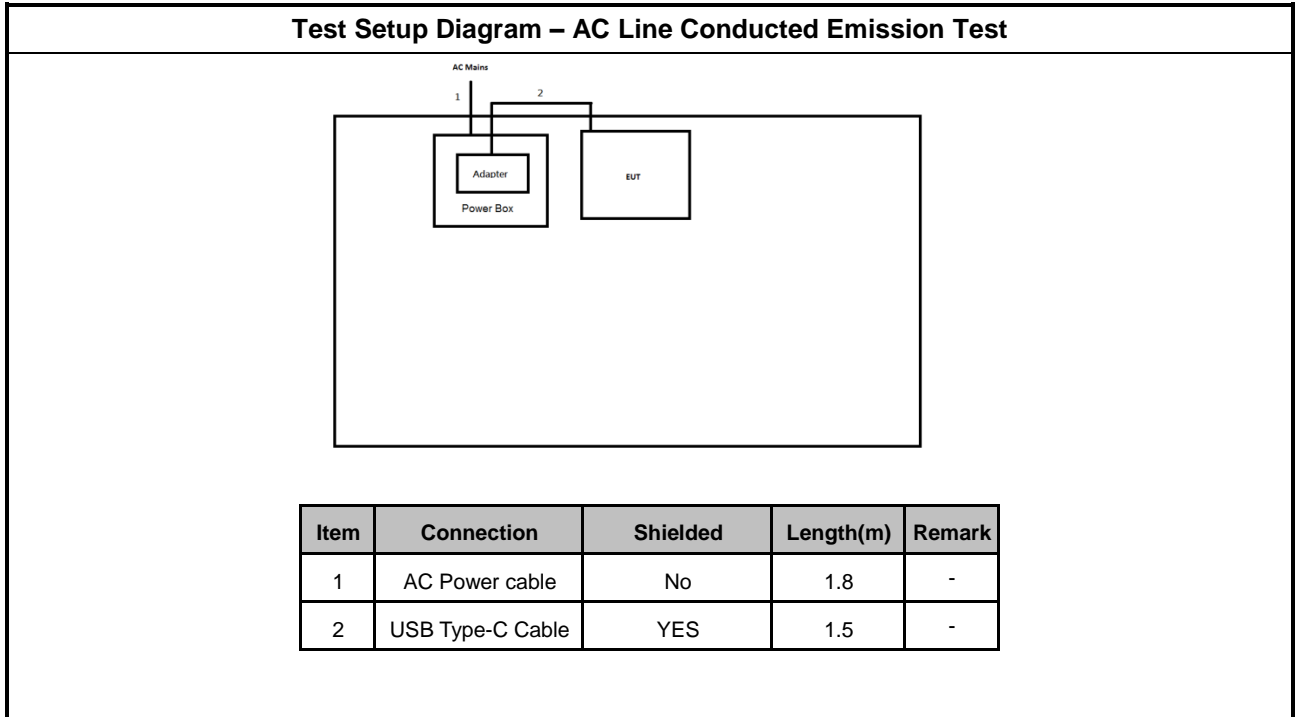
Accessories				
AC Adapter (US Plug)	Brand Name	LEI	Model Name	MU10AE050200UA1
	Power Rating	I/P: 100 - 240 Vac, 0.3 A, O/P: 5.0 Vdc, 2.0 A		
HDMI Cable	Brand Name	HANRICO	Model Name	26A1810005
	Signal Line	1.0 meter, Shielded cable, w/o ferrite core		
USB Type-C Cable	Brand Name	HANRICO	Model Name	26A1810004
	Signal Line	1.5 meter, Shielded cable, w/o ferrite core		
Remote Controller	Brand Name	Omni	Model Name	RC4513101

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

2.5 Support Equipment

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

2.6 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

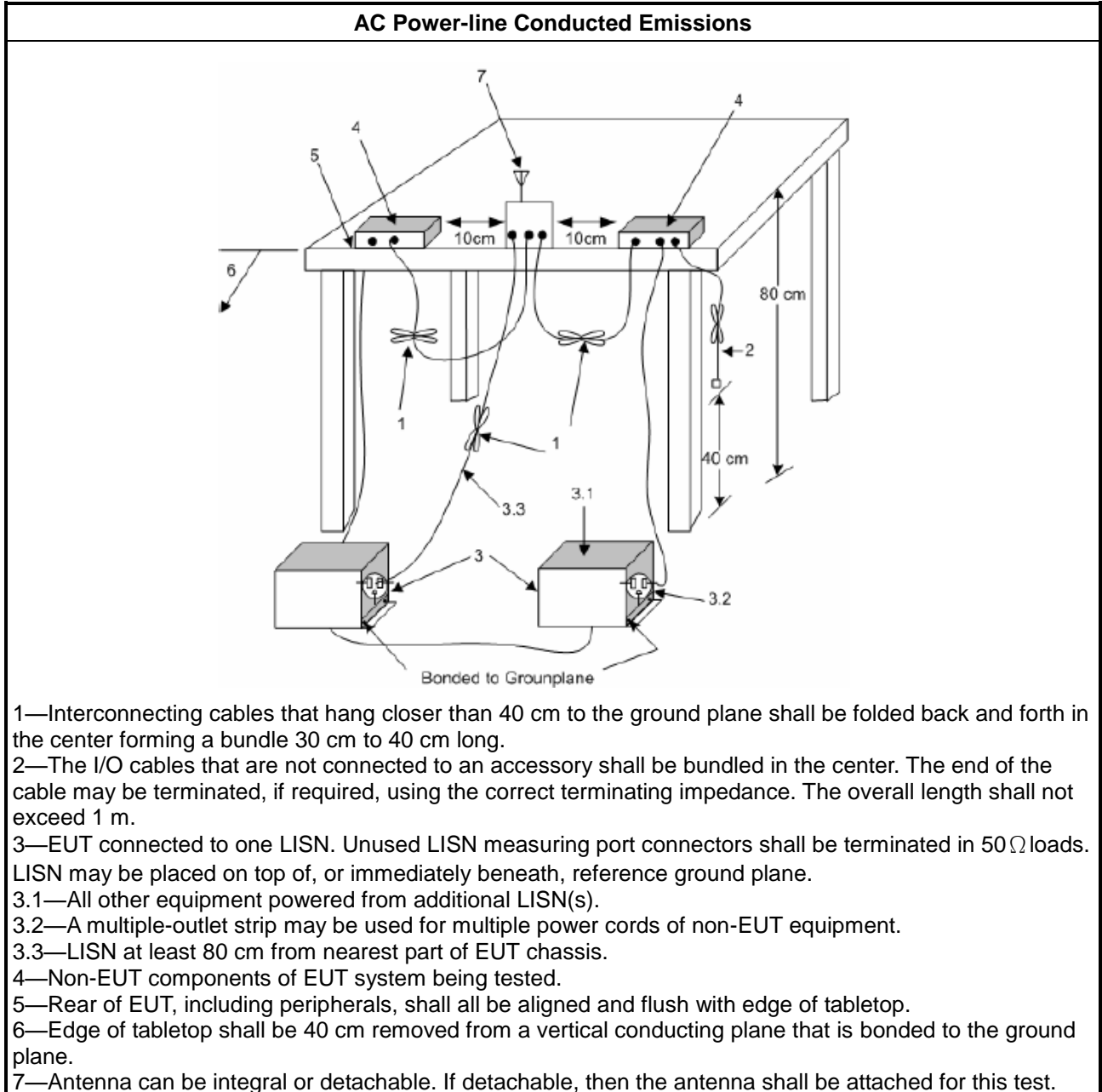
Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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	

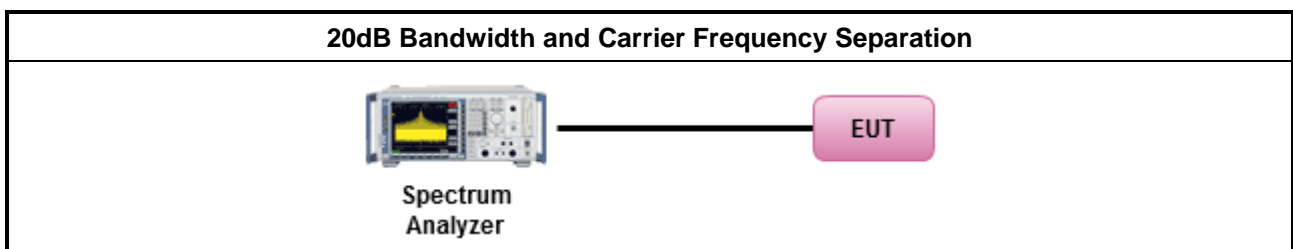
3.2.2 Measuring Instruments

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	

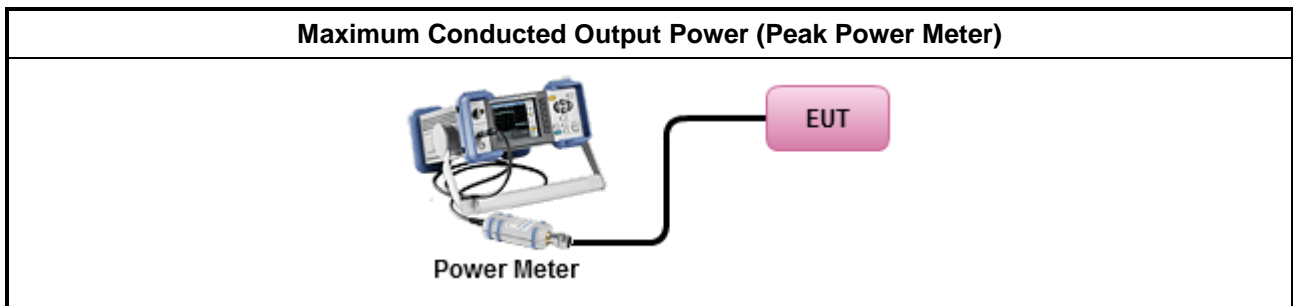
3.3.2 Measuring Instruments

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

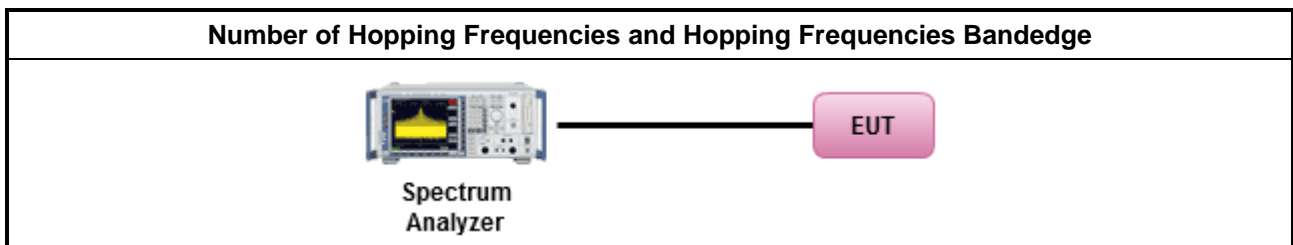
3.4.3 Measuring Instruments

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	

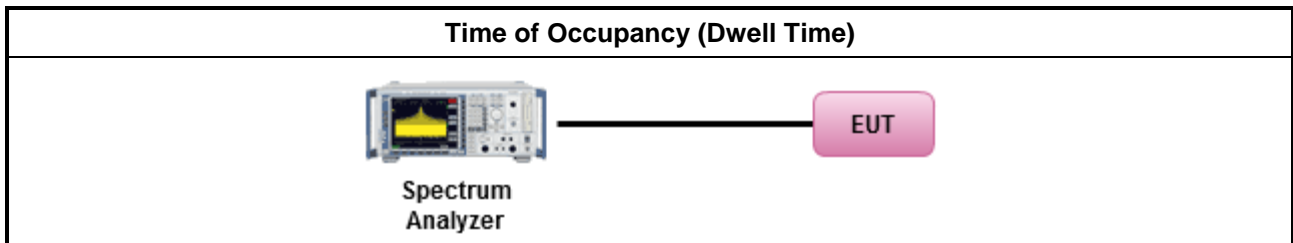
3.5.2 Measuring Instruments

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.	

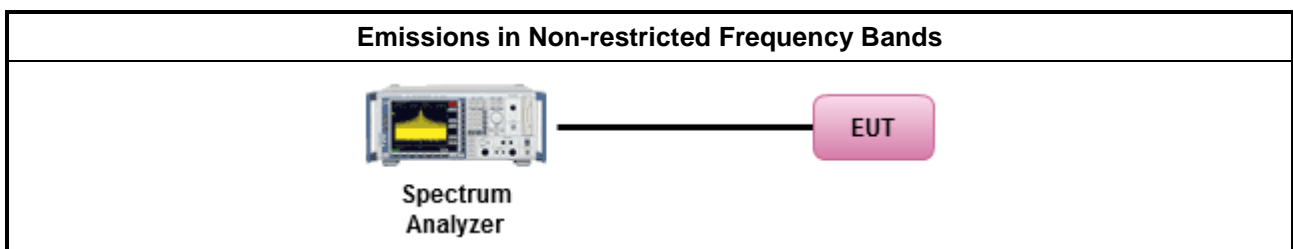
3.6.2 Measuring Instruments

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

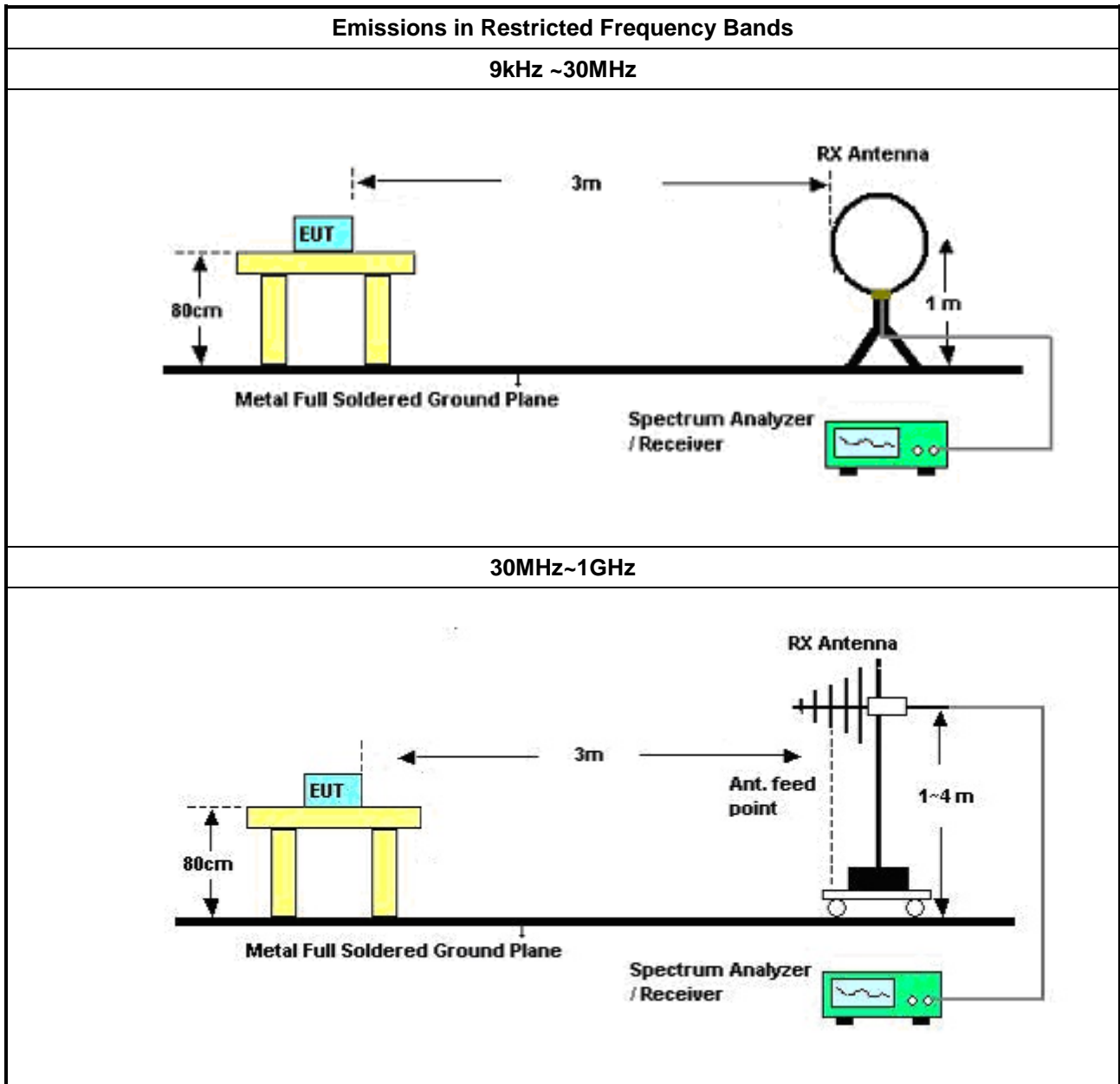
Test Method	
	<ul style="list-style-type: none">The average emission levels shall be measured in [hopping duty factor].
	<ul style="list-style-type: none">Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the 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.

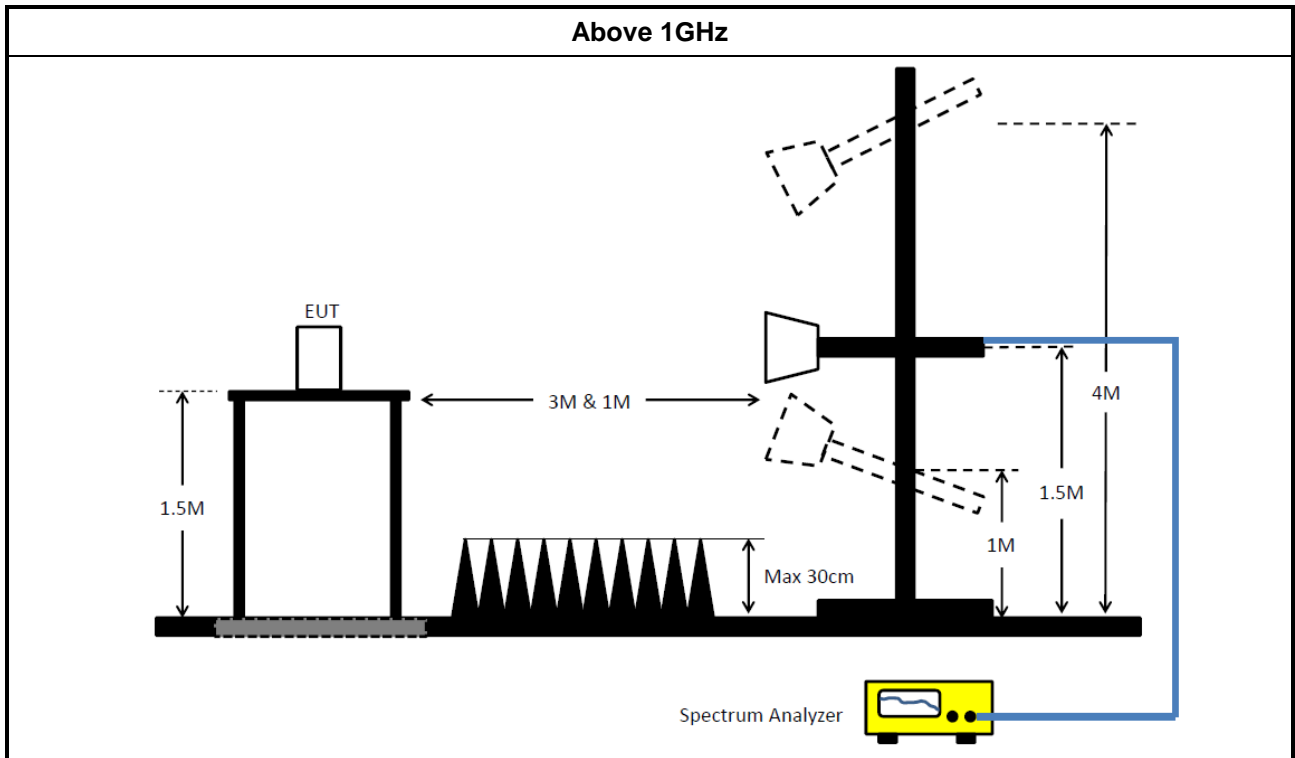
3.7.4 Measurement Results Calculation

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	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	05/Nov/2019	04/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	31/Aug/2020	30/Aug/2021
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	24/Sep/2019	23/Sep/2020

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10KHz ~ 40GHz	01/Oct/2019	30/Sep/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	11/Nov/2020
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	18/Mar/2020	17/Mar/2021

**Instrument for Radiated Test**

Instrument	Manufacturer	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	1GHz~26.5GHz	27/Feb/2020	26/Feb/2021
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	30/Jun/2020	29/Jun/2021
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~18GHz	16/Oct/2019	15/Oct/2020
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	09/Jun/2020	08/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz~30MHz	20/Jun/2020	19/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	30MHz~1GHz	25/Mar/2020	24/Mar/2021
RF Cable-R03m	HUBER+SUHNE R	SUCOFLEX10 4	805193/4+8051 92/4	1GHz~40GHz	08/Apr/2020	07/Apr/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-H G	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2020	15/Mar/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021



Summary

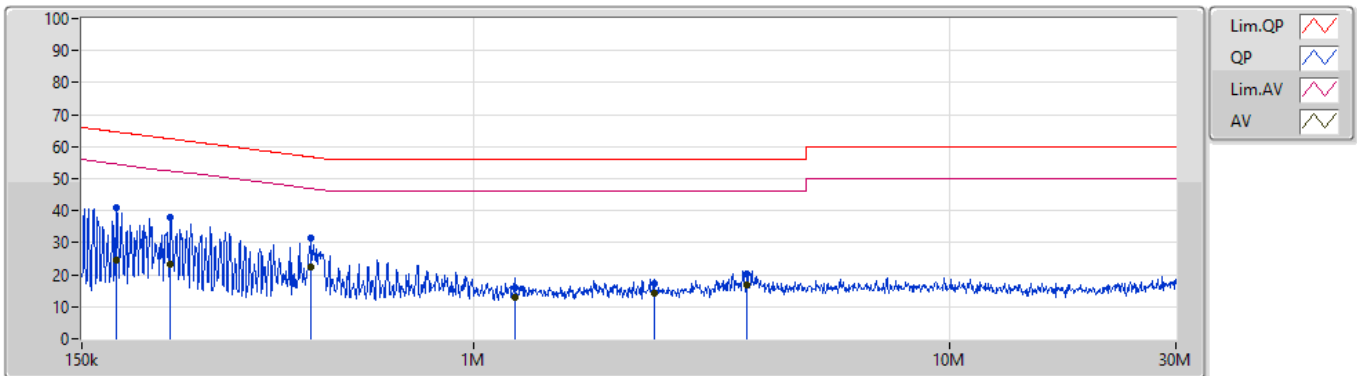
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150.6k	42.66	65.96	-23.30	Neutral

Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	177.381k	41.08	64.60	-23.52	Line	"Worst"
Mode 1	Pass	AV	177.381k	24.71	54.60	-29.89	Line	-
Mode 1	Pass	QP	229.932k	37.98	62.44	-24.46	Line	-
Mode 1	Pass	AV	229.932k	23.41	52.44	-29.03	Line	-
Mode 1	Pass	QP	455.055k	31.56	56.78	-25.22	Line	-
Mode 1	Pass	AV	455.055k	22.31	46.78	-24.47	Line	-
Mode 1	Pass	QP	1.22M	15.89	56.00	-40.11	Line	-
Mode 1	Pass	AV	1.22M	13.14	46.00	-32.86	Line	-
Mode 1	Pass	QP	2.395M	17.32	56.00	-38.68	Line	-
Mode 1	Pass	AV	2.395M	14.11	46.00	-31.89	Line	-
Mode 1	Pass	QP	3.76M	20.33	56.00	-35.67	Line	-
Mode 1	Pass	AV	3.76M	16.84	46.00	-29.16	Line	-
Mode 1	Pass	QP	150.6k	42.66	65.96	-23.30	Neutral	"Worst"
Mode 1	Pass	AV	150.6k	26.31	55.96	-29.65	Neutral	-
Mode 1	Pass	QP	504.824k	28.13	56.00	-27.87	Neutral	-
Mode 1	Pass	AV	504.824k	20.41	46.00	-25.59	Neutral	-
Mode 1	Pass	QP	855.047k	21.45	56.00	-34.55	Neutral	-
Mode 1	Pass	AV	855.047k	16.96	46.00	-29.04	Neutral	-
Mode 1	Pass	QP	1.321M	19.59	56.00	-36.41	Neutral	-
Mode 1	Pass	AV	1.321M	16.33	46.00	-29.67	Neutral	-
Mode 1	Pass	QP	2.211M	23.10	56.00	-32.90	Neutral	-
Mode 1	Pass	AV	2.211M	16.80	46.00	-29.20	Neutral	-
Mode 1	Pass	QP	3.627M	20.38	56.00	-35.62	Neutral	-
Mode 1	Pass	AV	3.627M	16.75	46.00	-29.25	Neutral	-

Conducted Emissions at Powerline_Mode 1

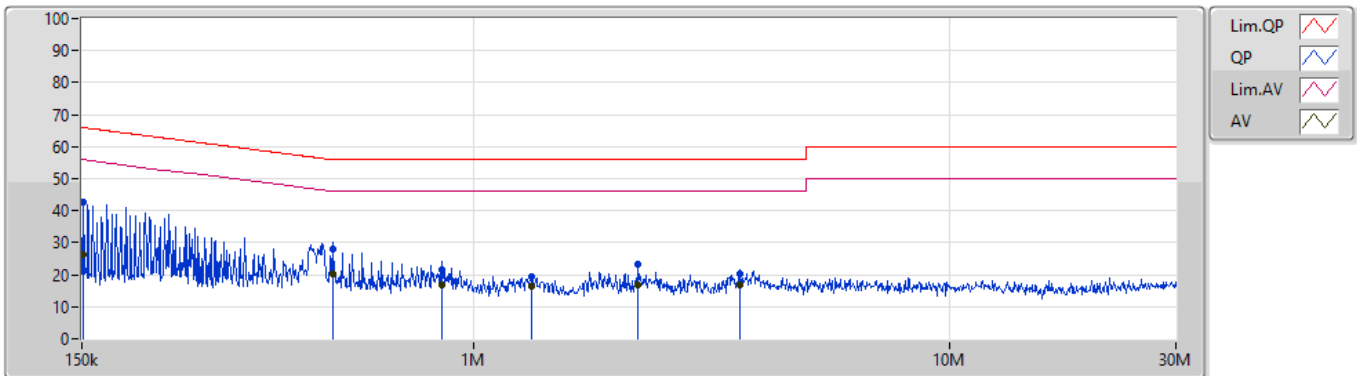
24/09/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	177.381k	41.08	64.60	-23.52	19.53	Line	"Worst"	21.55	9.65	0.01	9.87
AV	177.381k	24.71	54.60	-29.89	19.53	Line	-	5.18	9.65	0.01	9.87
QP	229.932k	37.98	62.44	-24.46	19.53	Line	-	18.45	9.65	0.01	9.87
AV	229.932k	23.41	52.44	-29.03	19.53	Line	-	3.88	9.65	0.01	9.87
QP	455.055k	31.56	56.78	-25.22	19.53	Line	-	12.03	9.64	0.02	9.87
AV	455.055k	22.31	46.78	-24.47	19.53	Line	-	2.78	9.64	0.02	9.87
QP	1.22M	15.89	56.00	-40.11	19.58	Line	-	-3.69	9.64	0.06	9.88
AV	1.22M	13.14	46.00	-32.86	19.58	Line	-	-6.44	9.64	0.06	9.88
QP	2.395M	17.32	56.00	-38.68	19.61	Line	-	-2.29	9.65	0.09	9.87
AV	2.395M	14.11	46.00	-31.89	19.61	Line	-	-5.50	9.65	0.09	9.87
QP	3.76M	20.33	56.00	-35.67	19.66	Line	-	0.67	9.66	0.12	9.88
AV	3.76M	16.84	46.00	-29.16	19.66	Line	-	-2.82	9.66	0.12	9.88

Conducted Emissions at Powerline_Mode 1

24/09/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	150.6k	42.66	65.96	-23.30	19.53	Neutral	"Worst"	23.13	9.65	0.01	9.87
AV	150.6k	26.31	55.96	-29.65	19.53	Neutral	-	6.78	9.65	0.01	9.87
QP	504.824k	28.13	56.00	-27.87	19.53	Neutral	-	8.60	9.63	0.03	9.87
AV	504.824k	20.41	46.00	-25.59	19.53	Neutral	-	0.88	9.63	0.03	9.87
QP	855.047k	21.45	56.00	-34.55	19.54	Neutral	-	1.91	9.63	0.04	9.87
AV	855.047k	16.96	46.00	-29.04	19.54	Neutral	-	-2.58	9.63	0.04	9.87
QP	1.321M	19.59	56.00	-36.41	19.58	Neutral	-	0.01	9.64	0.06	9.88
AV	1.321M	16.33	46.00	-29.67	19.58	Neutral	-	-3.25	9.64	0.06	9.88
QP	2.211M	23.10	56.00	-32.90	19.61	Neutral	-	3.49	9.65	0.09	9.87
AV	2.211M	16.80	46.00	-29.20	19.61	Neutral	-	-2.81	9.65	0.09	9.87
QP	3.627M	20.38	56.00	-35.62	19.65	Neutral	-	0.73	9.66	0.11	9.88
AV	3.627M	16.75	46.00	-29.25	19.65	Neutral	-	-2.90	9.66	0.11	9.88



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)	941.25k	879.56k	880KF1D	925k	875.562k
BT-EDR(2Mbps)	1.323M	1.202M	1M20G1D	1.321M	1.198M
BT-EDR(3Mbps)	1.285M	1.211M	1M21G1D	1.275M	1.207M

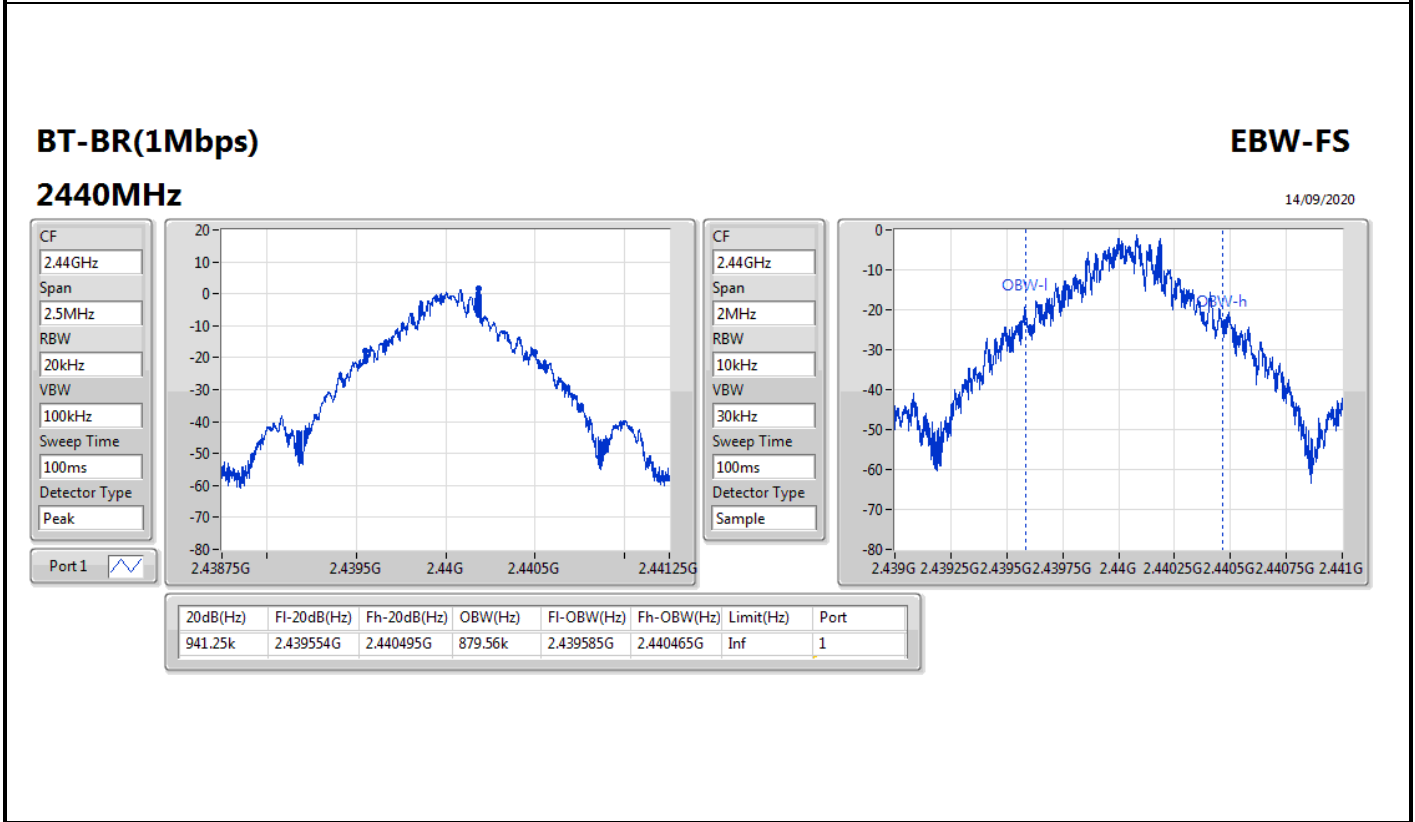
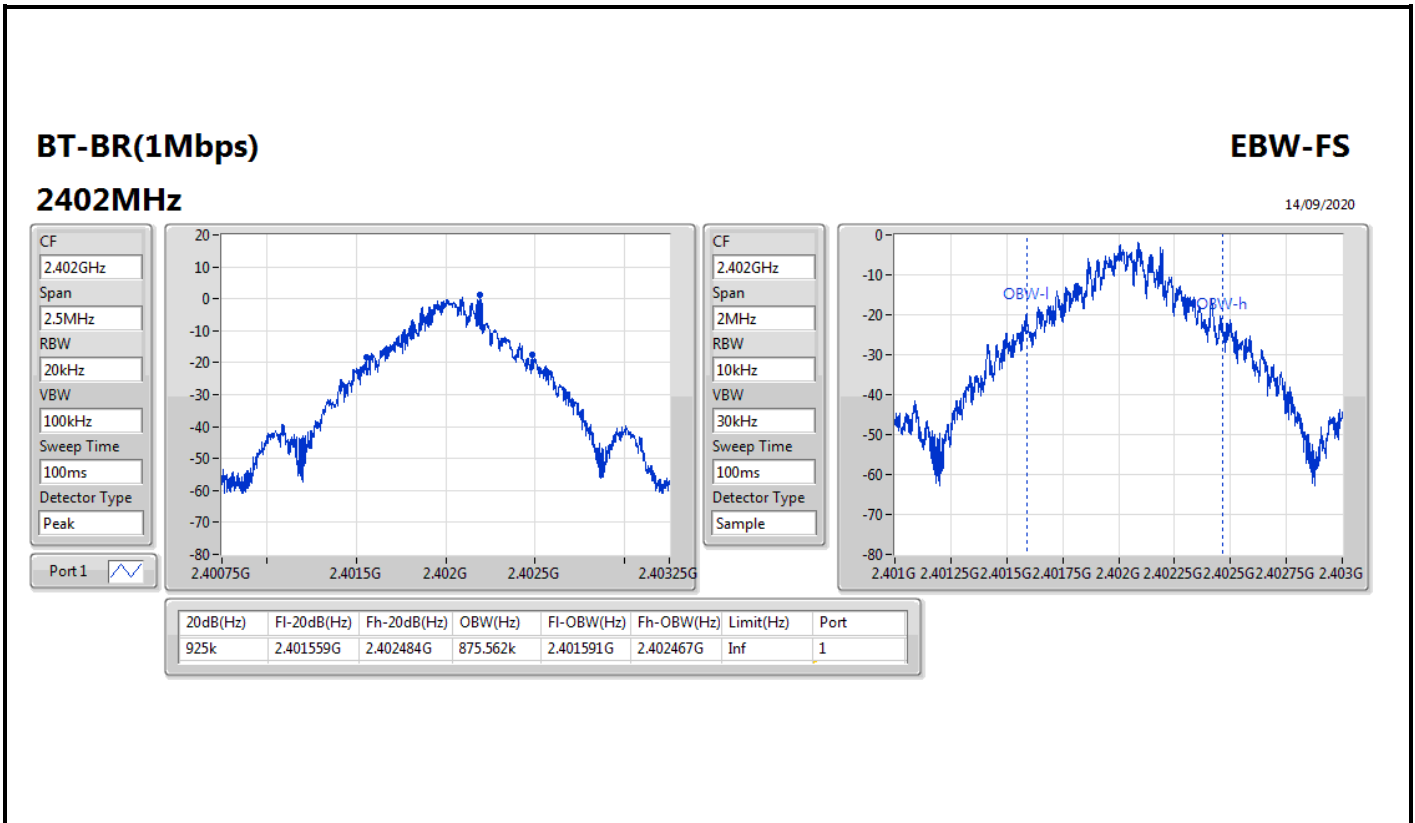
Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

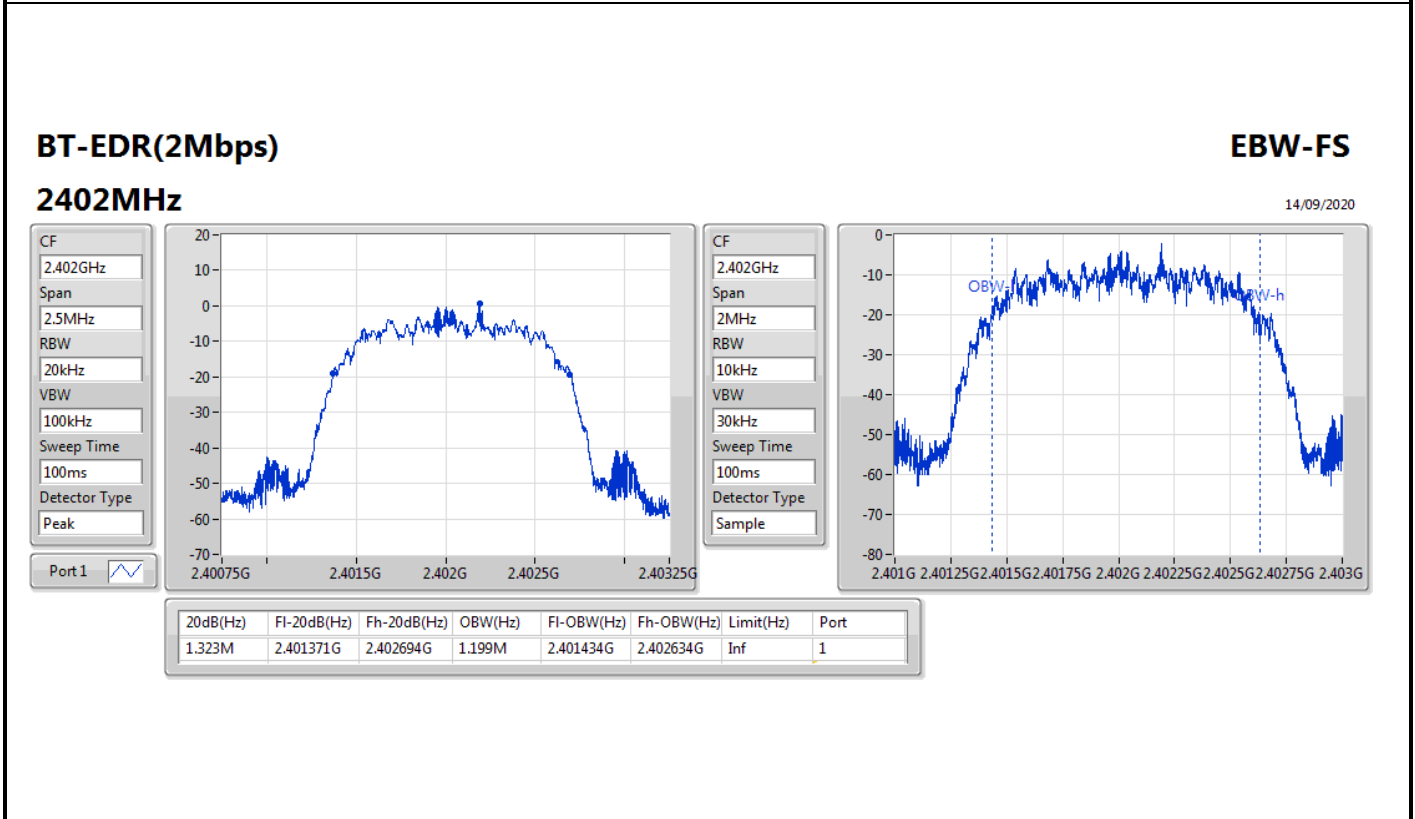
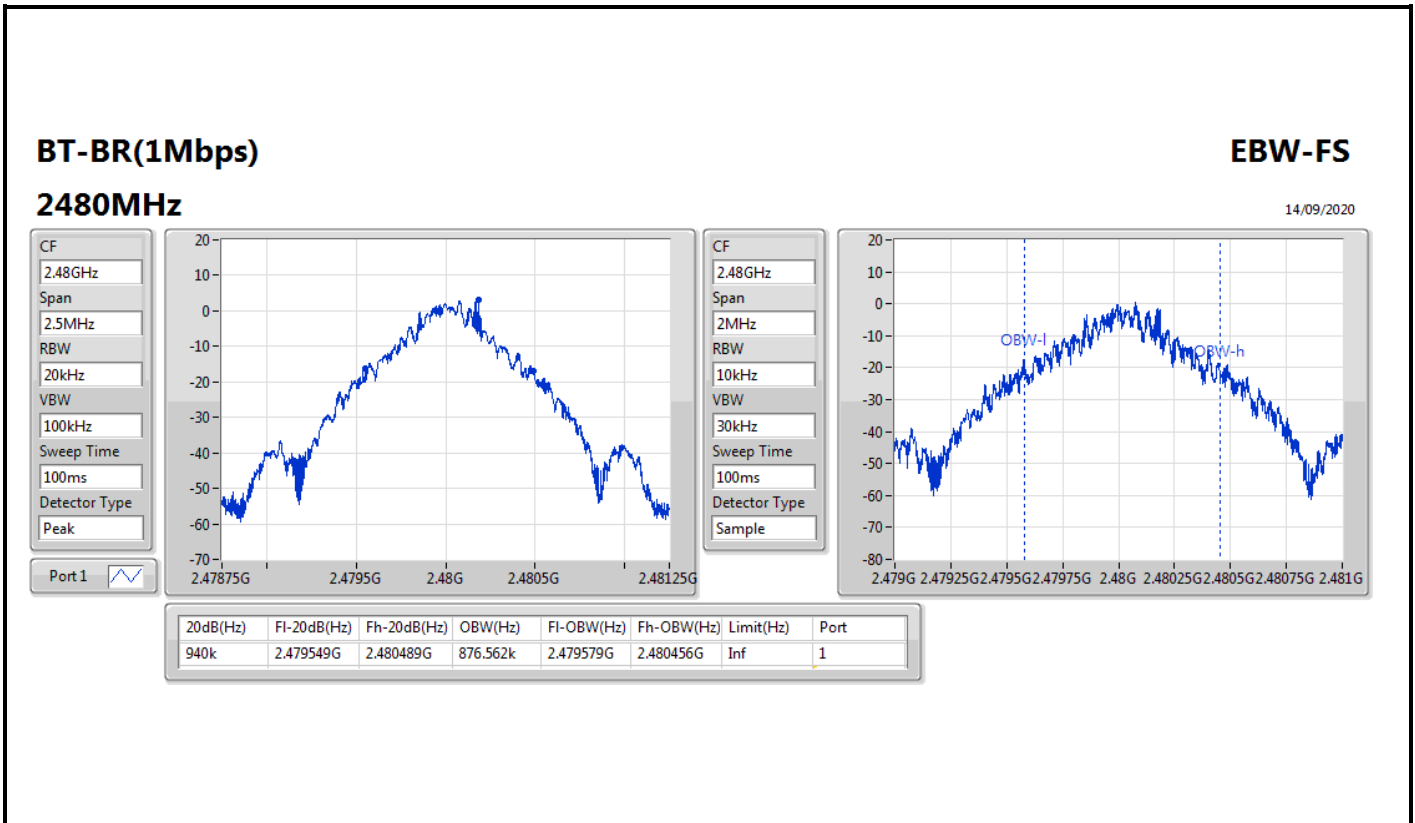


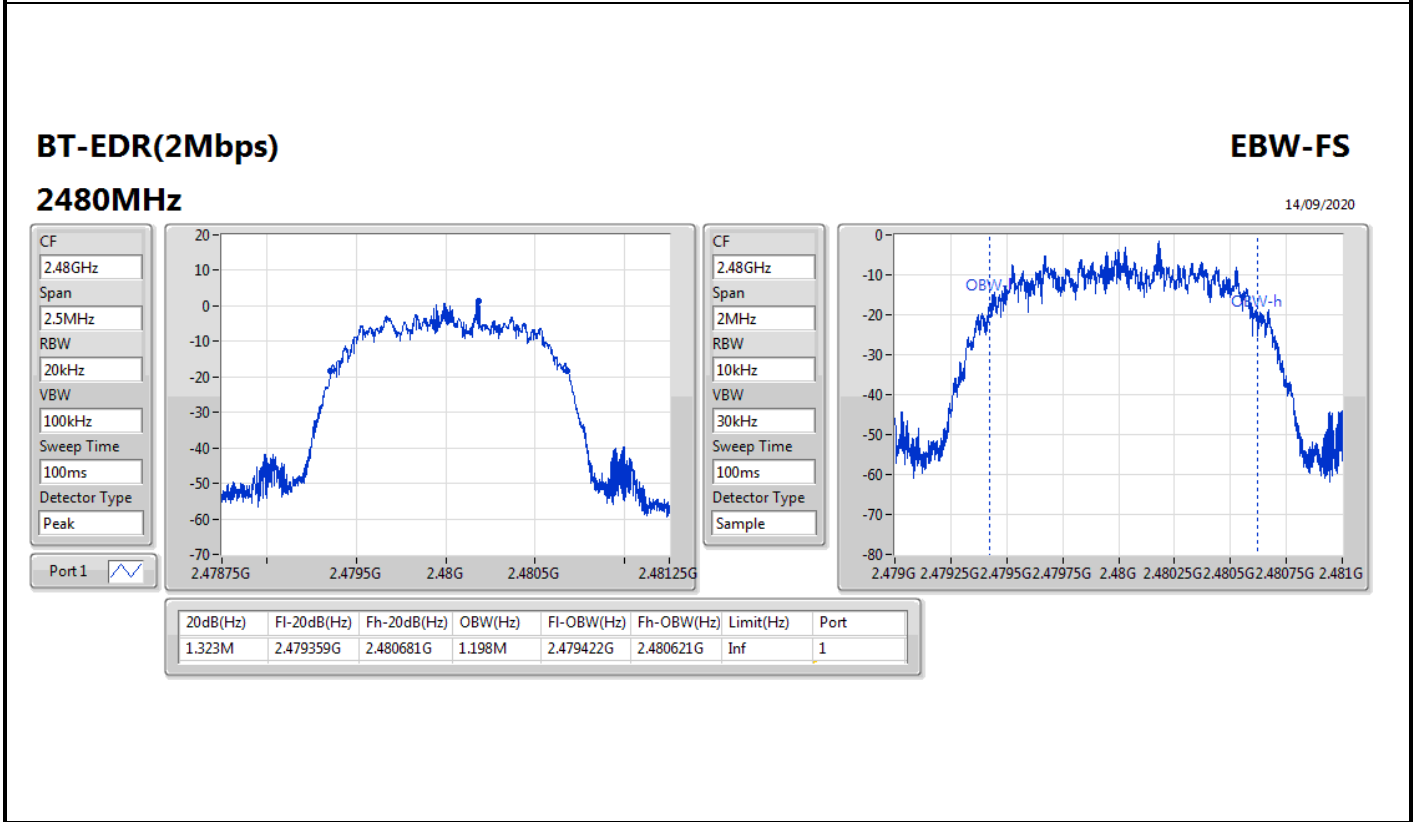
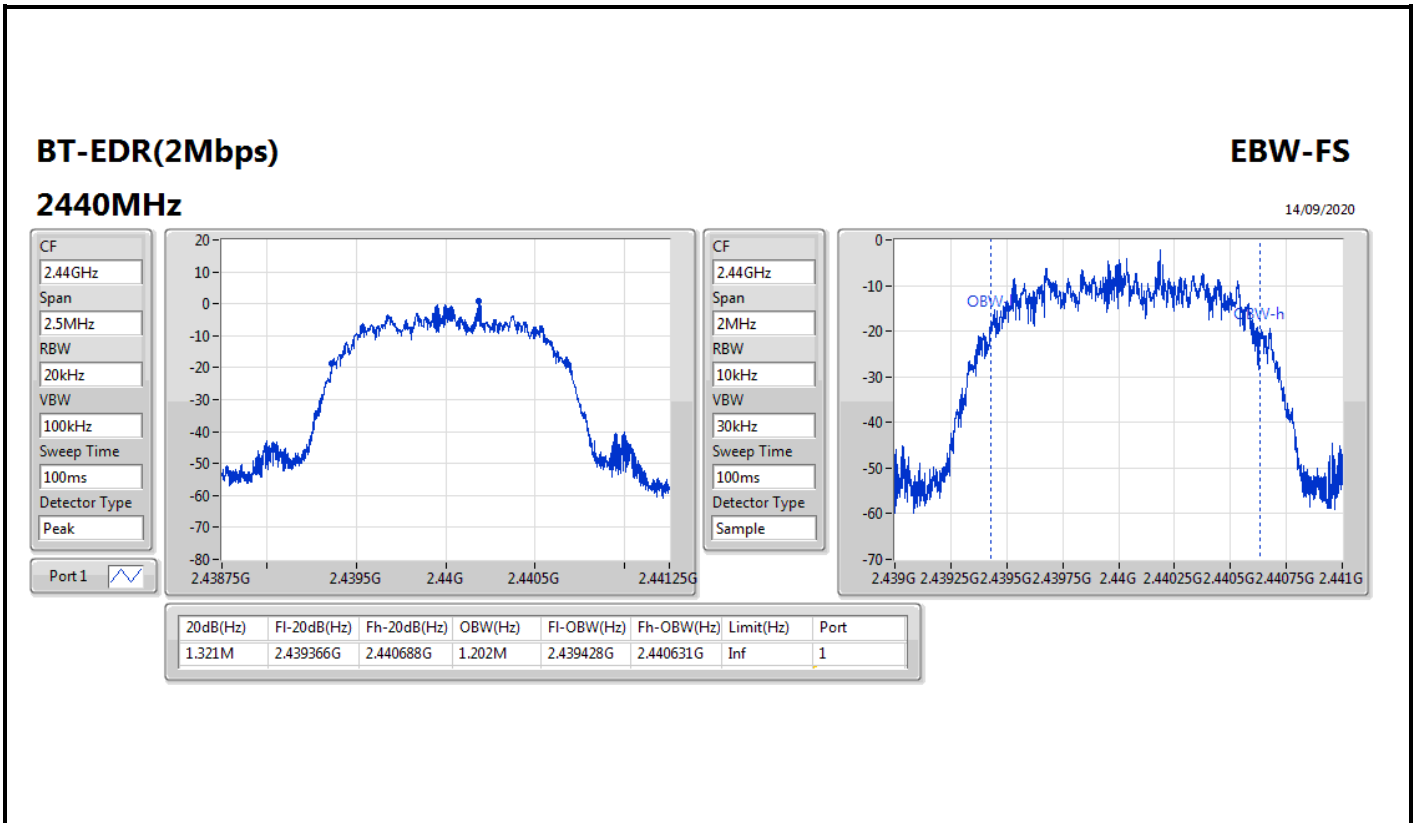
Result

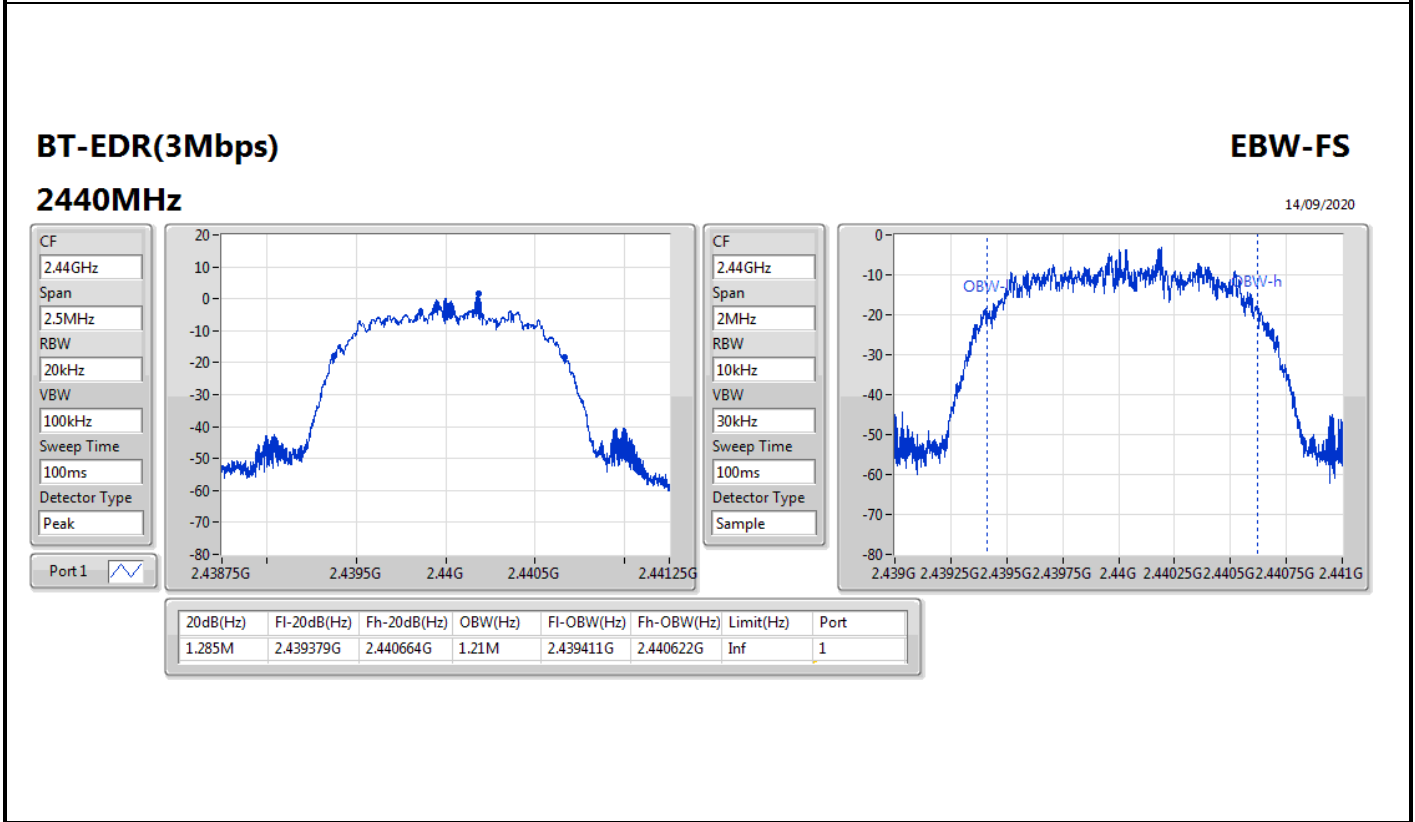
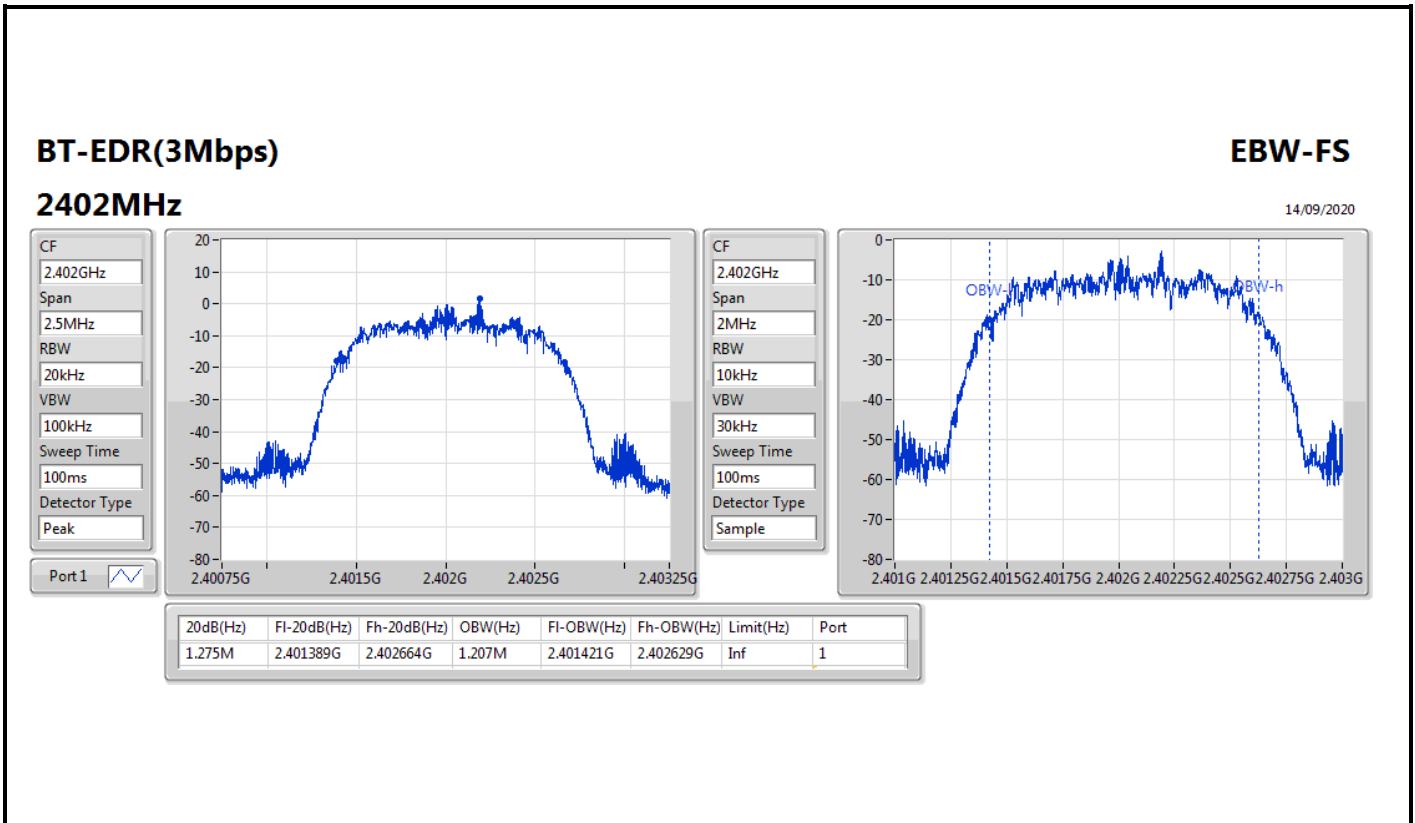
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz_FHSS	Pass	Inf	925k	875.562k
2440MHz_FHSS	Pass	Inf	941.25k	879.56k
2480MHz_FHSS	Pass	Inf	940k	876.562k
BT-EDR(2Mbps)	-	-	-	-
2402MHz_FHSS	Pass	Inf	1.323M	1.199M
2440MHz_FHSS	Pass	Inf	1.321M	1.202M
2480MHz_FHSS	Pass	Inf	1.323M	1.198M
BT-EDR(3Mbps)	-	-	-	-
2402MHz_FHSS	Pass	Inf	1.275M	1.207M
2440MHz_FHSS	Pass	Inf	1.285M	1.21M
2480MHz_FHSS	Pass	Inf	1.281M	1.211M

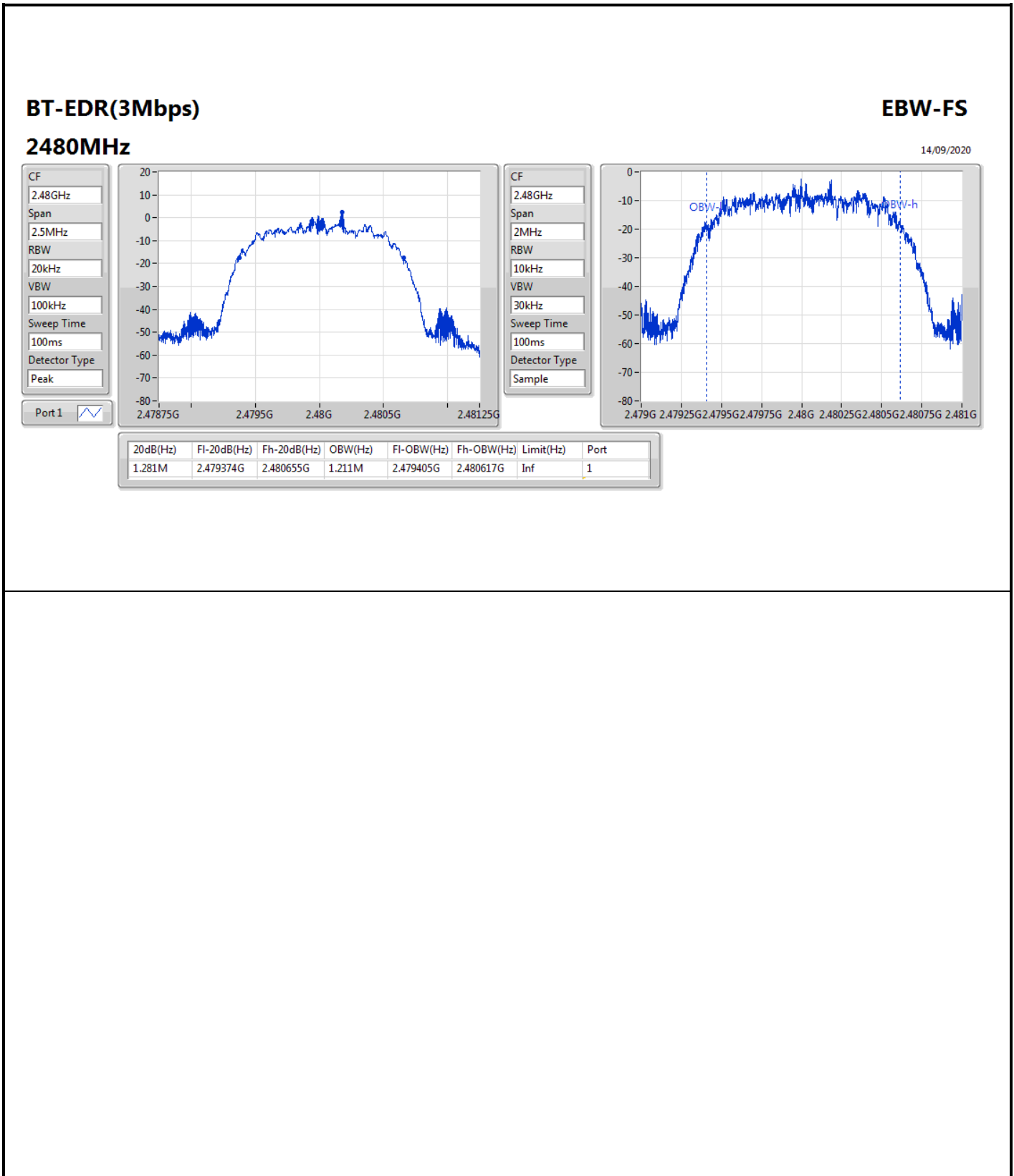
Port X-N dB = Port X 20dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth













Summary

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



Result

Mode	Result	F _I (Hz)	F _h (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz_FHSS	Pass	2.402187G	2.403187G	1.0005M	616.05k
2440MHz_FHSS	Pass	2.440181G	2.441181G	1.0005M	626.8725k
2480MHz_FHSS	Pass	2.479175G	2.480175G	1.0005M	626.04k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz_FHSS	Pass	2.402191G	2.403192G	1.0005M	881.118k
2440MHz_FHSS	Pass	2.440187G	2.441186G	999k	879.786k
2480MHz_FHSS	Pass	2.479179G	2.480178G	999k	881.118k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz_FHSS	Pass	2.402188G	2.403187G	999k	849.15k
2440MHz_FHSS	Pass	2.440181G	2.44118G	999k	855.81k
2480MHz_FHSS	Pass	2.479175G	2.480174G	999k	853.146k

BT-BR(1Mbps)

Channel Separation-FS

2.402G/2.403GHz

14/09/2020



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402187G	2.403187G	1.0005M	616.05k

BT-BR(1Mbps)

Channel Separation-FS

2.44G/2.441GHz

14/09/2020



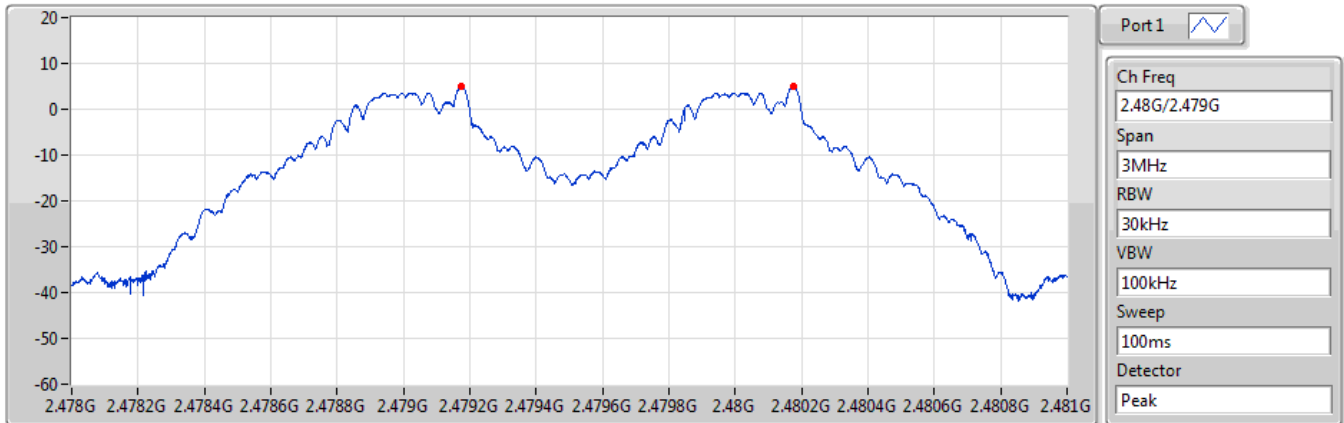
Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440181G	2.441181G	1.0005M	626.8725k

BT-BR(1Mbps)

Channel Separation-FS

2.48G/2.479GHz

14/09/2020



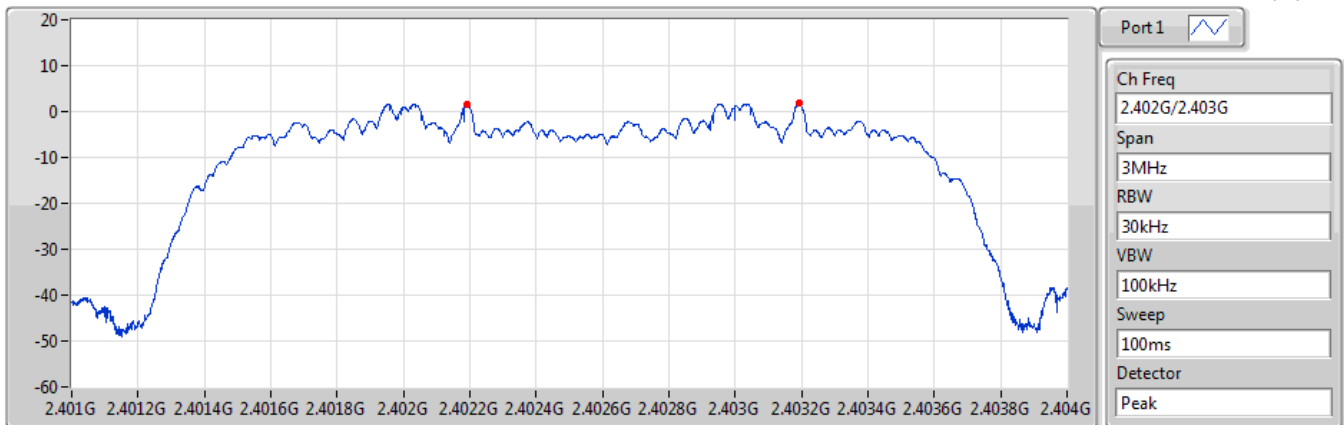
Ff(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479175G	2.480175G	1.0005M	626.04k

BT-EDR(2Mbps)

Channel Separation-FS

2.402G/2.403GHz

14/09/2020



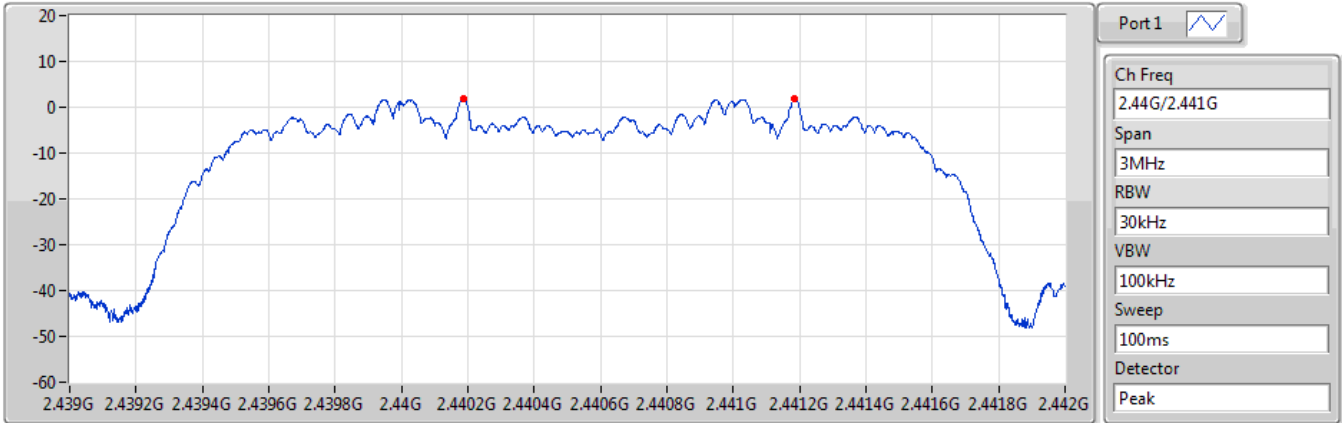
Ff(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402191G	2.403192G	1.0005M	881.118k

BT-EDR(2Mbps)

Channel Separation-FS

2.44G/2.441GHz

14/09/2020



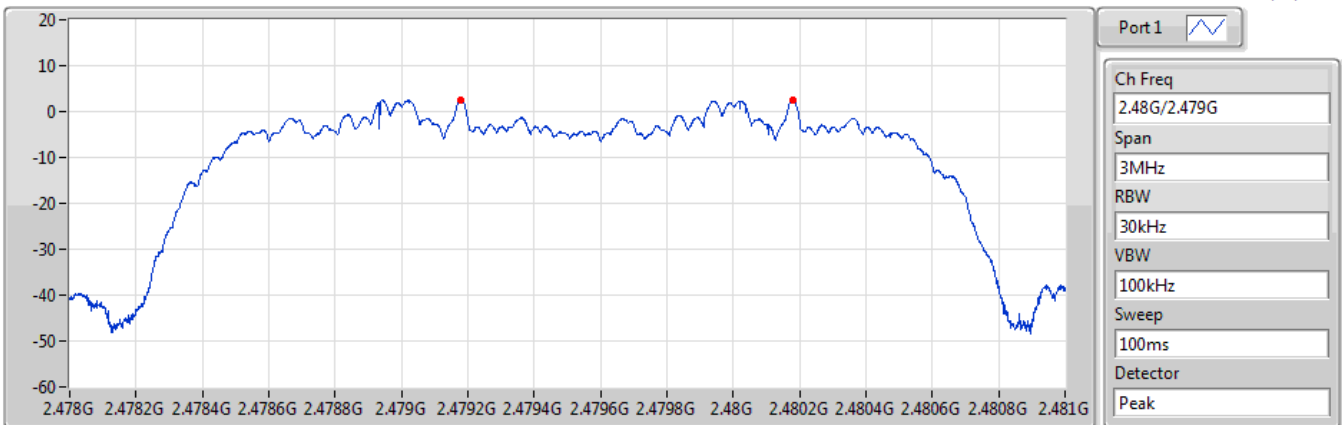
Ff(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440187G	2.441186G	999k	879.786k

BT-EDR(2Mbps)

Channel Separation-FS

2.48G/2.479GHz

14/09/2020



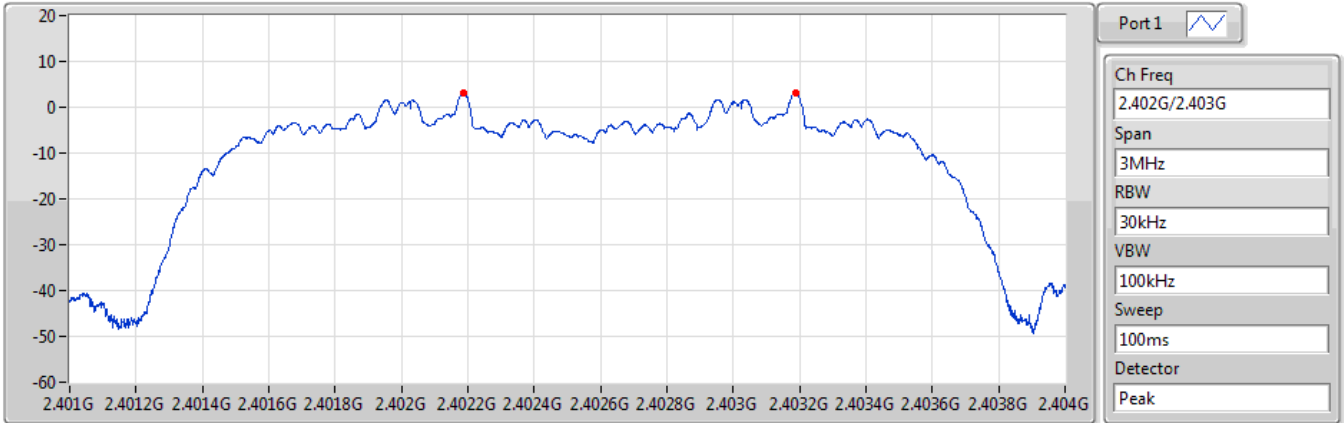
Ff(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479179G	2.480178G	999k	881.118k

BT-EDR(3Mbps)

Channel Separation-FS

2.402G/2.403GHz

14/09/2020



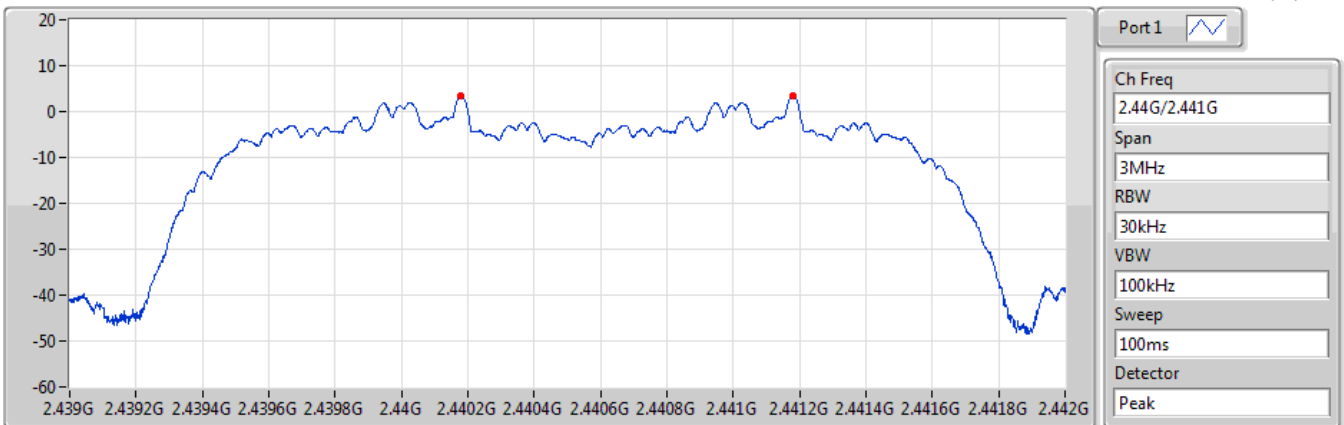
F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402188G	2.403187G	999k	849.15k

BT-EDR(3Mbps)

Channel Separation-FS

2.44G/2.441GHz

14/09/2020



F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440181G	2.44118G	999k	855.81k

BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation-FS

14/09/2020



F1(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479175G	2.480174G	999k	853.146k



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.28	0.00425
BT-EDR(2Mbps)	7.53	0.00566
BT-EDR(3Mbps)	7.99	0.00630



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_FHSS	Pass	1.41	4.24	21.00
2440MHz_FHSS	Pass	1.41	4.95	21.00
2480MHz_FHSS	Pass	1.41	6.28	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_FHSS	Pass	1.41	6.75	21.00
2440MHz_FHSS	Pass	1.41	6.97	21.00
2480MHz_FHSS	Pass	1.41	7.53	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_FHSS	Pass	1.41	7.20	21.00
2440MHz_FHSS	Pass	1.41	7.42	21.00
2480MHz_FHSS	Pass	1.41	7.99	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	5.67	0.00369
BT-EDR(2Mbps)	4.89	0.00308
BT-EDR(3Mbps)	4.93	0.00311



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_FHSS	Pass	1.41	3.60	21.00
2440MHz_FHSS	Pass	1.41	4.22	21.00
2480MHz_FHSS	Pass	1.41	5.67	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_FHSS	Pass	1.41	4.06	21.00
2440MHz_FHSS	Pass	1.41	4.34	21.00
2480MHz_FHSS	Pass	1.41	4.89	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_FHSS	Pass	1.41	4.06	21.00
2440MHz_FHSS	Pass	1.41	4.33	21.00
2480MHz_FHSS	Pass	1.41	4.93	21.00

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



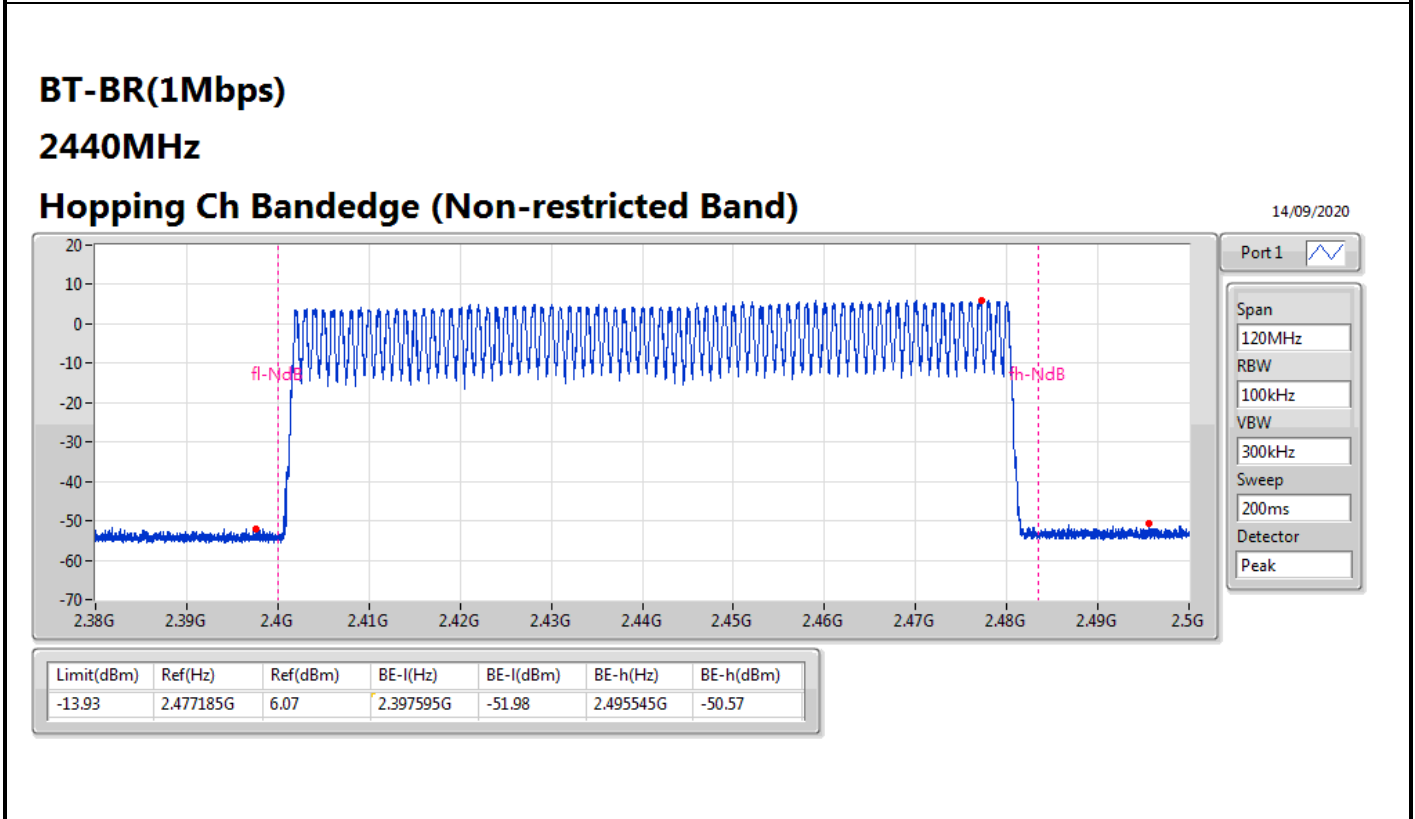
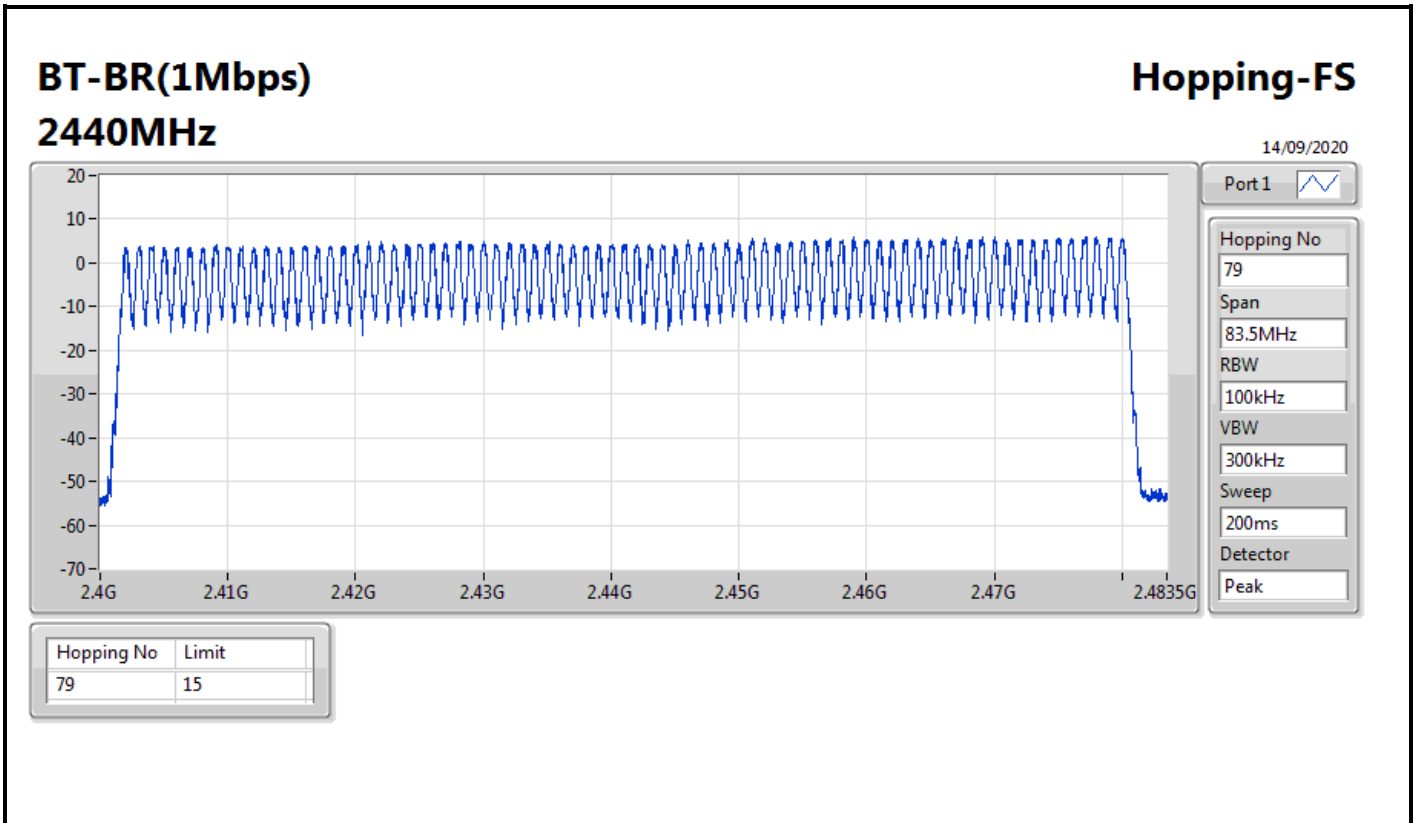
Summary

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



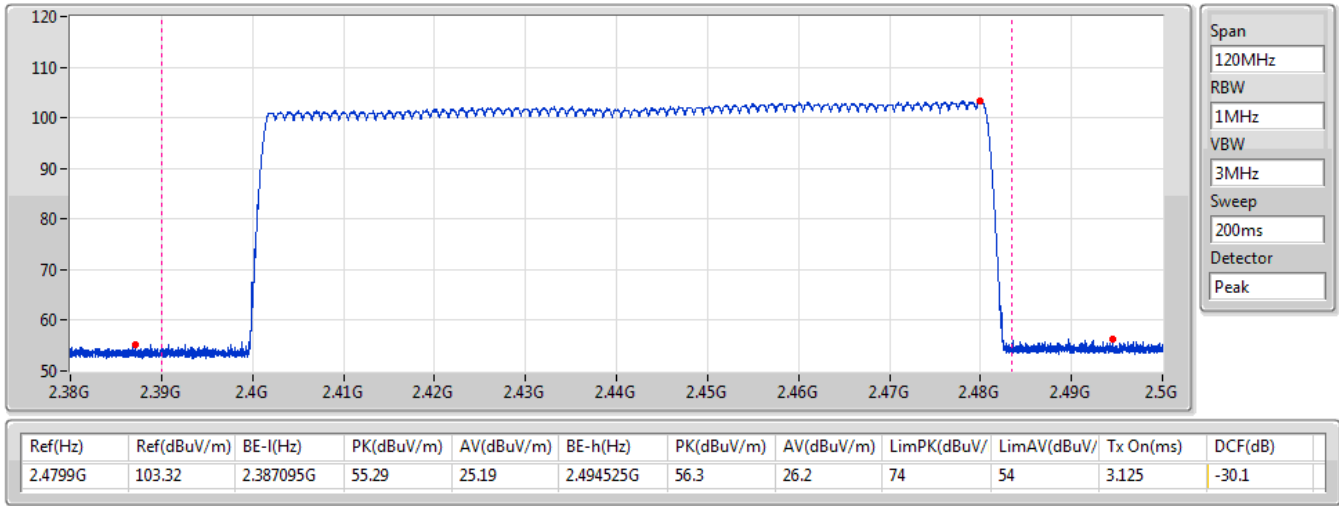
Result

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



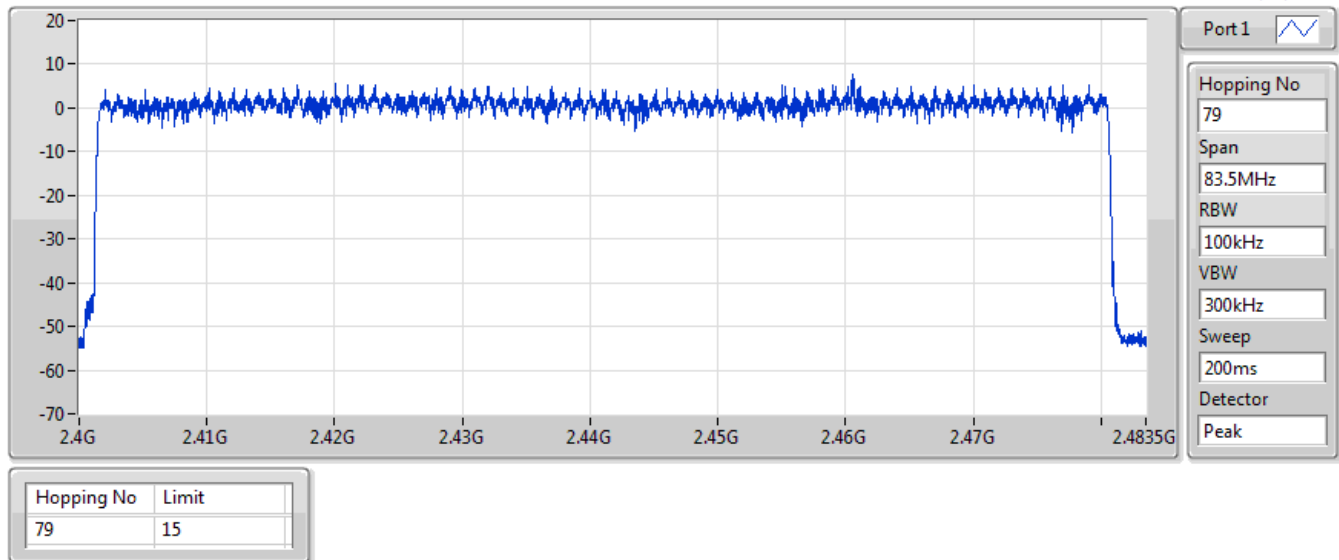
BT-BR(1Mbps)
2440MHz
Hopping Ch Bandedge (Restricted Band)

14/09/2020



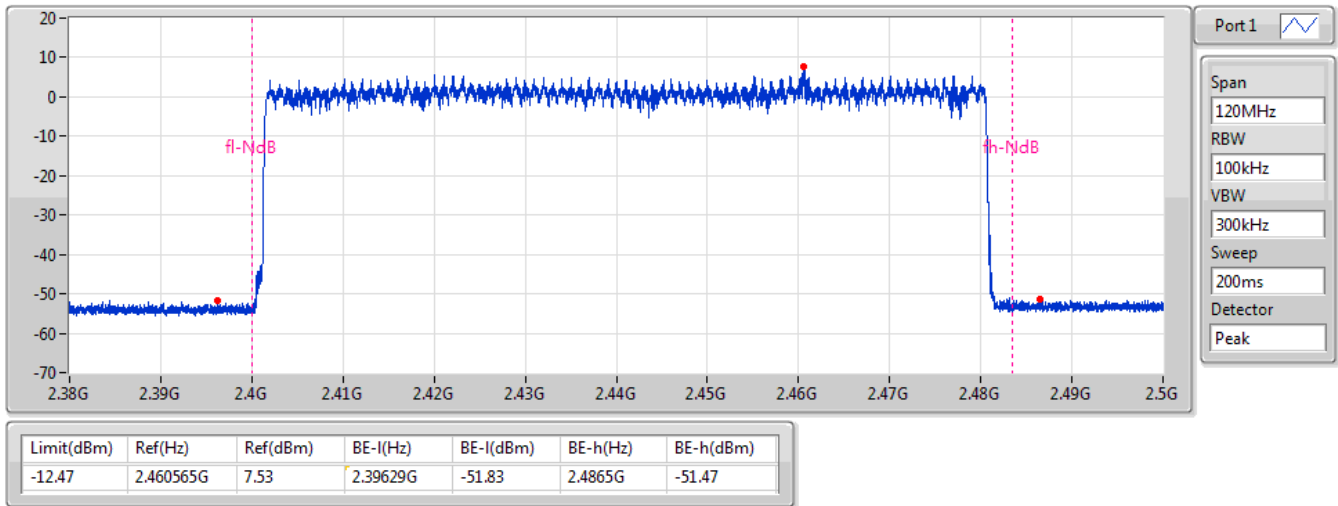
BT-EDR(2Mbps) **Hopping-FS**
2440MHz

14/09/2020



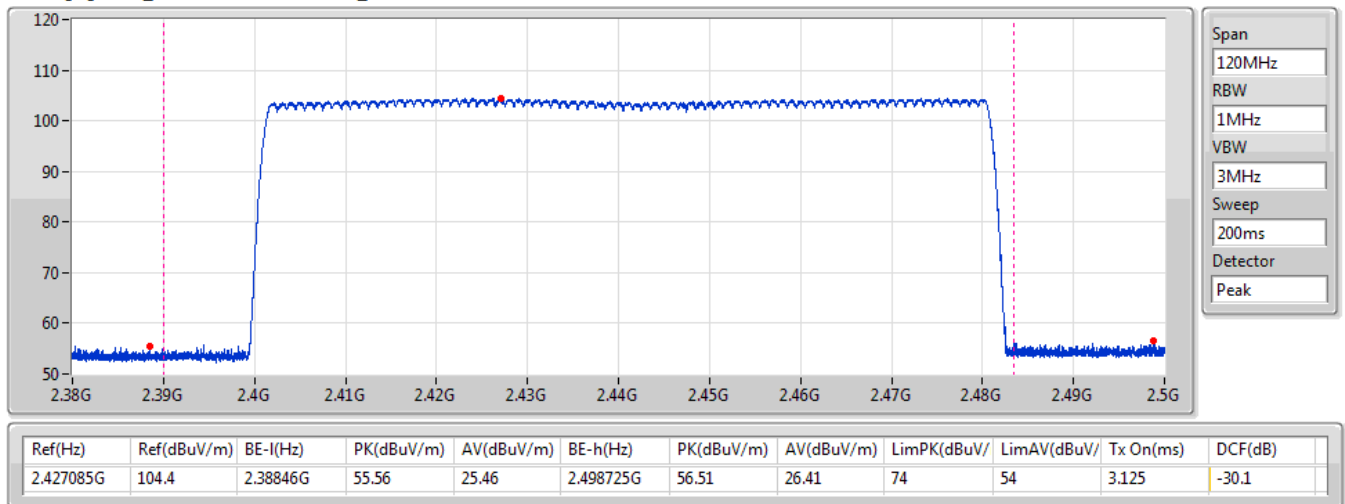
BT-EDR(2Mbps)
2440MHz
Hopping Ch Bandedge (Non-restricted Band)

14/09/2020



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

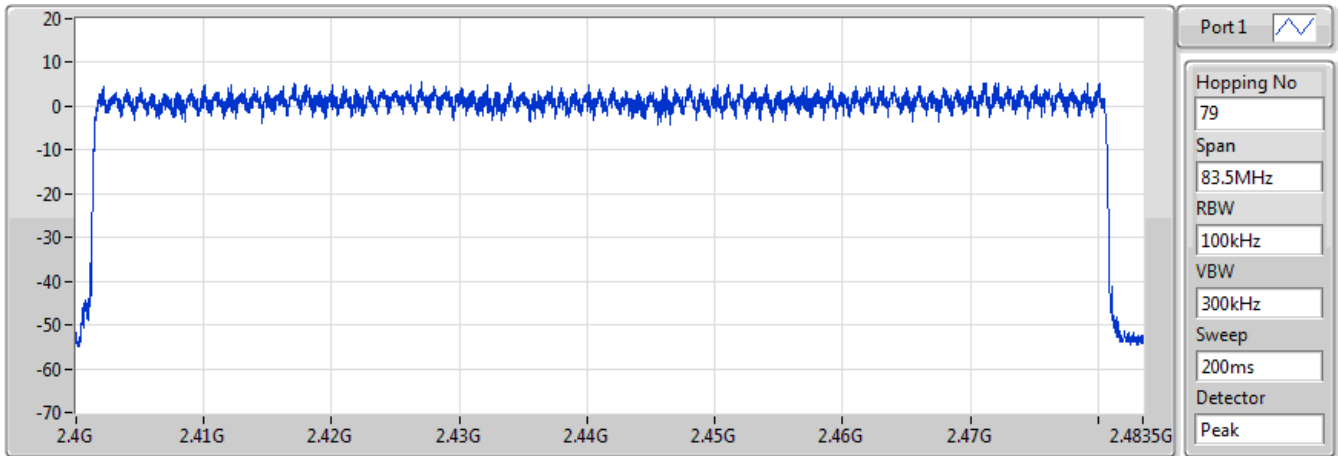
14/09/2020



BT-EDR(3Mbps)
2440MHz

Hopping-FS

14/09/2020

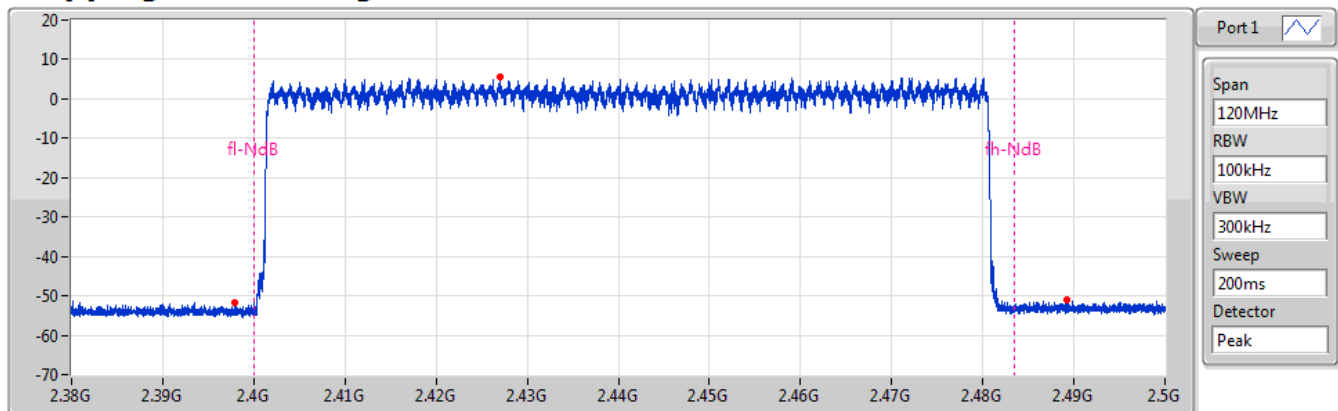


Hopping No	Limit
79	15

BT-EDR(3Mbps)
2440MHz

Hopping Ch Bandedge (Non-restricted Band)

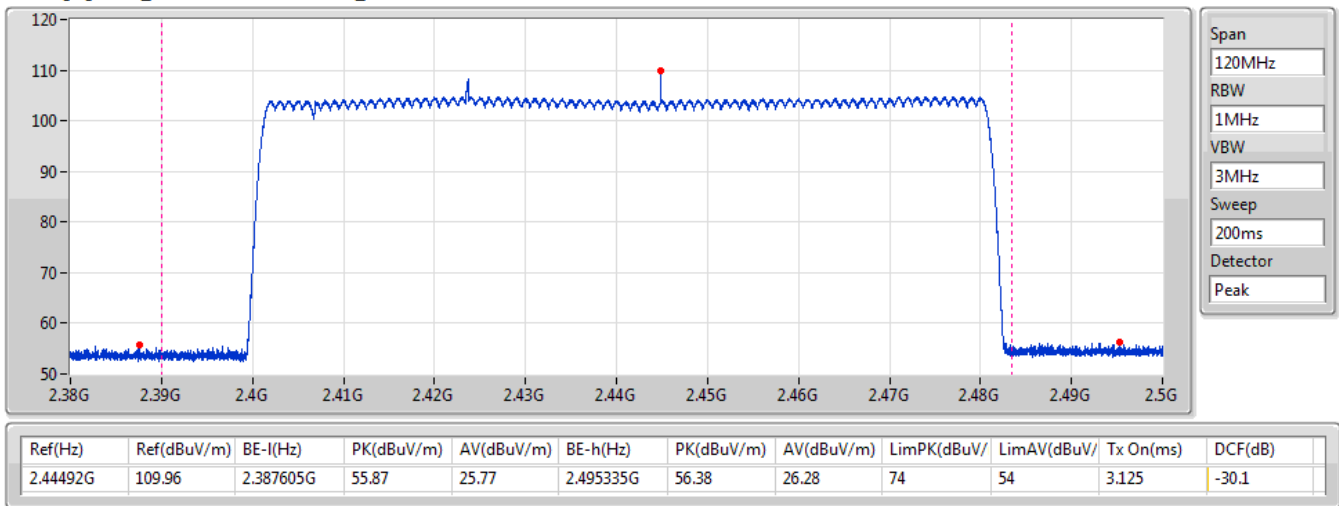
14/09/2020



Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-14.53	2.42704G	5.47	2.39785G	-51.82	2.489215G	-50.85

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

14/09/2020





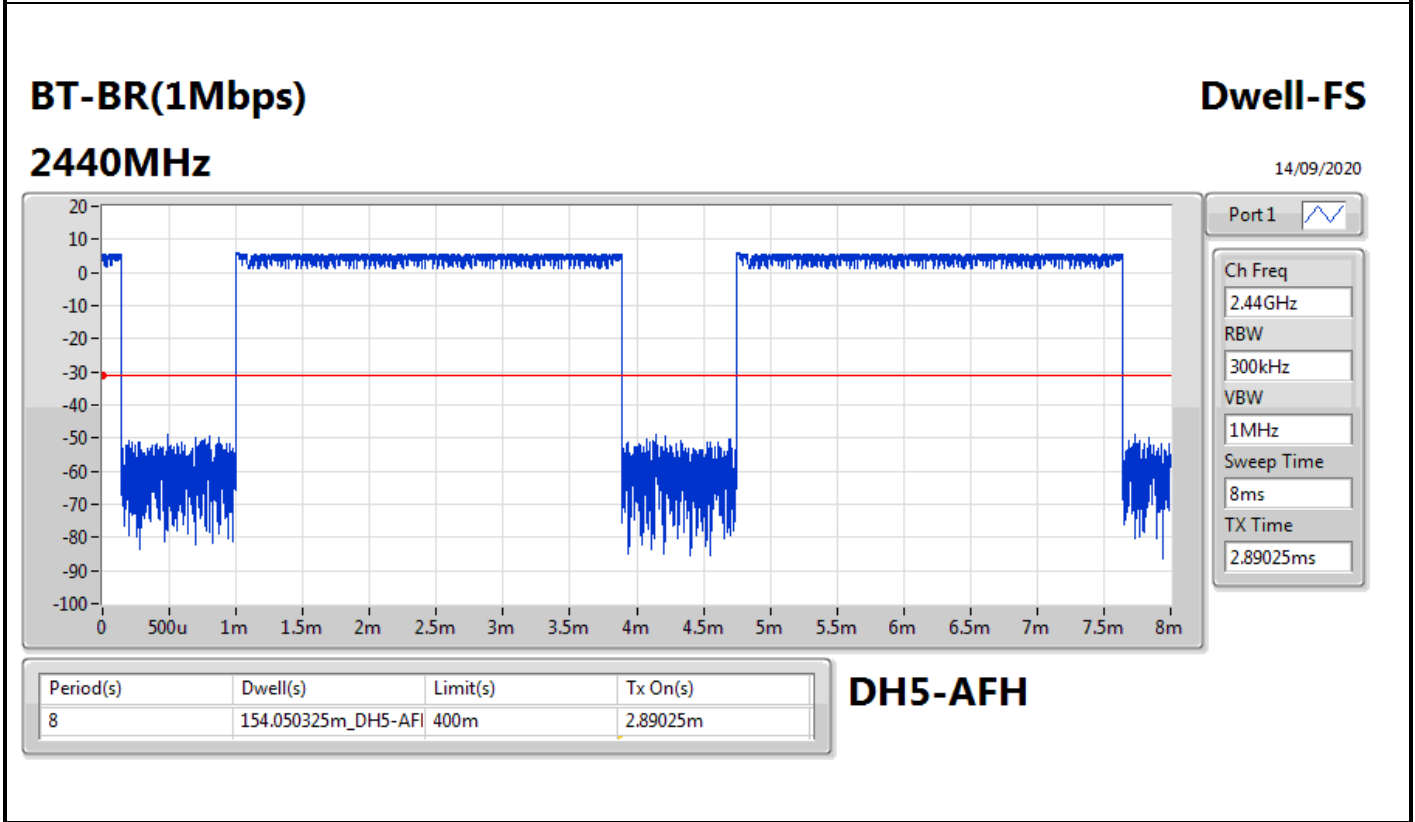
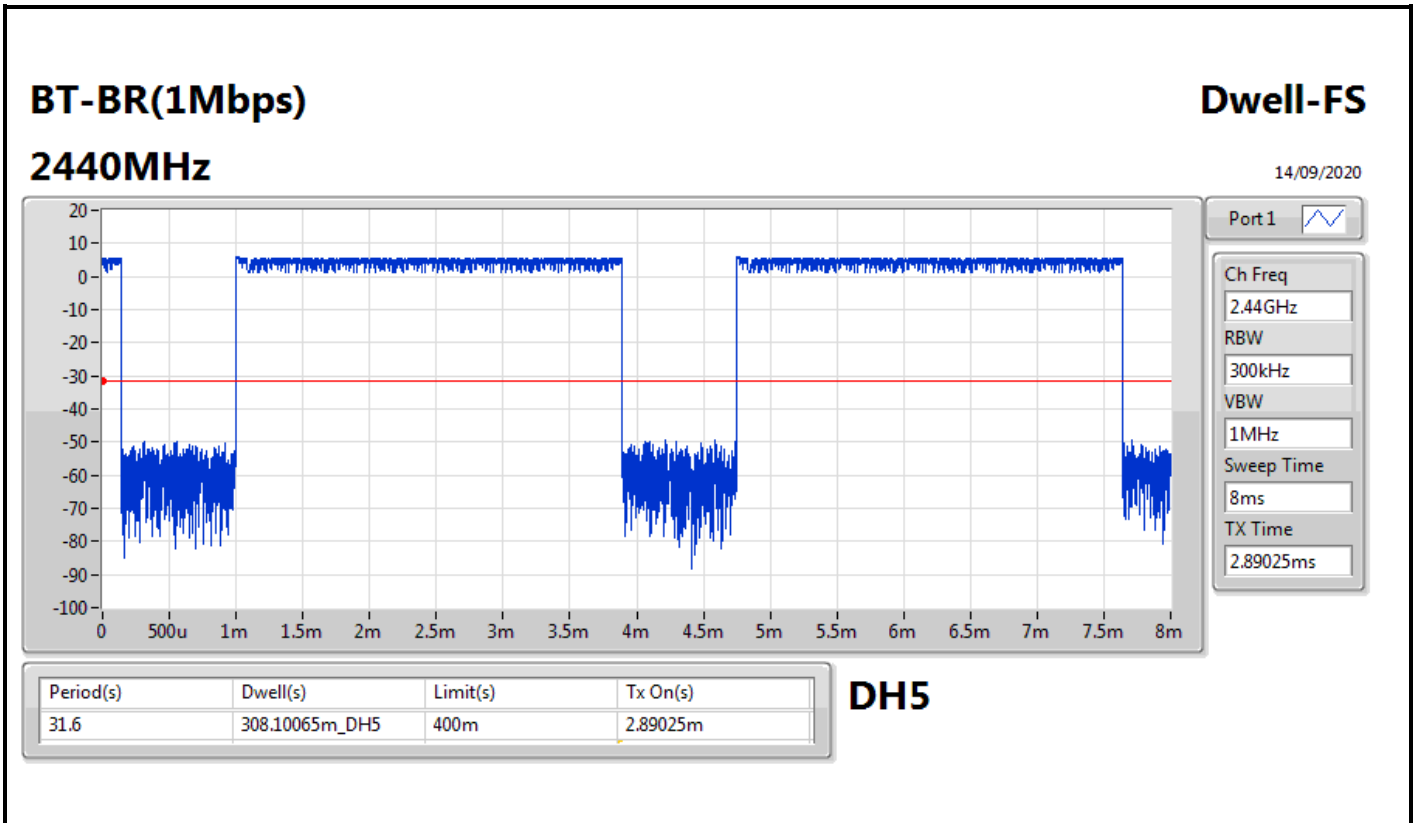
Summary

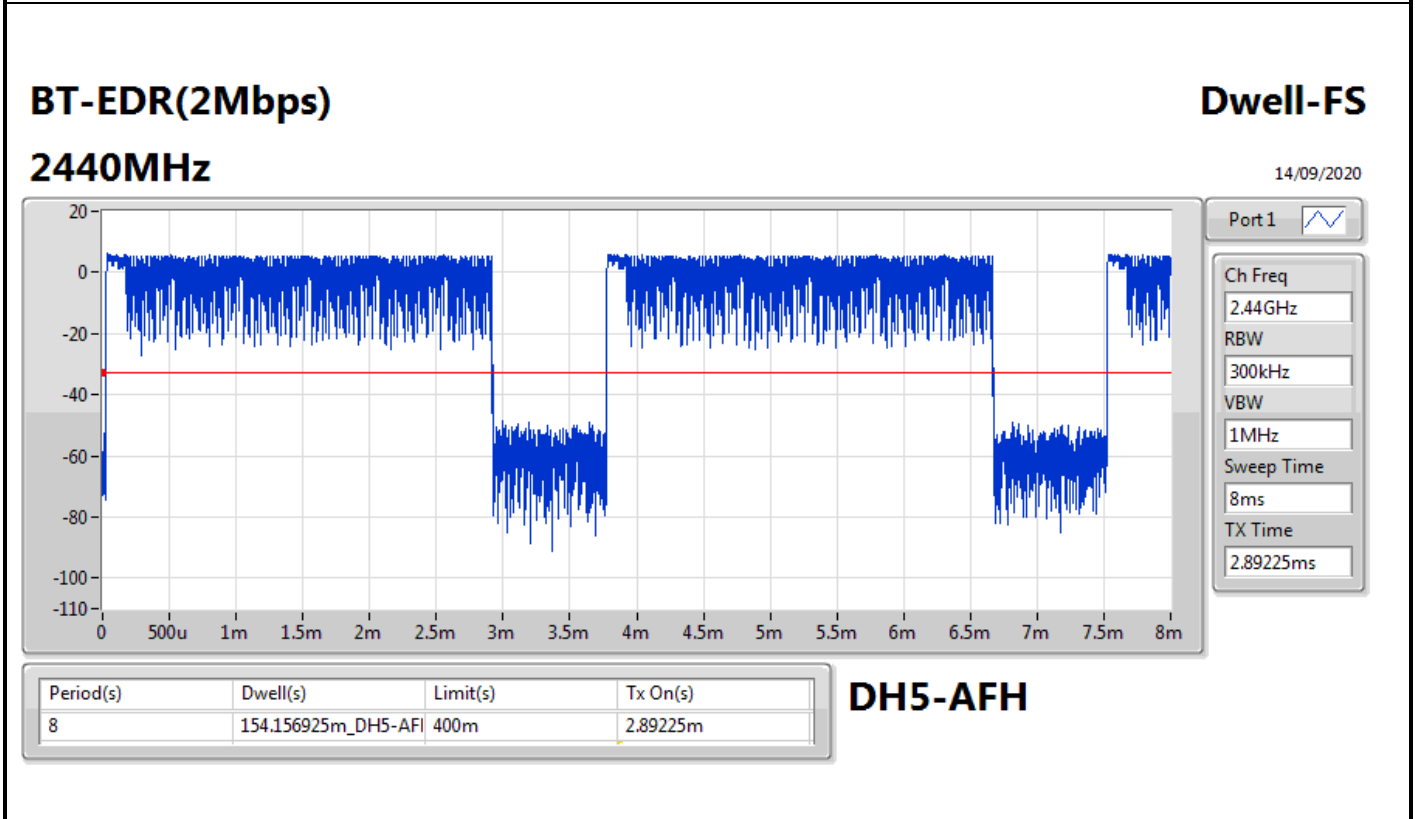
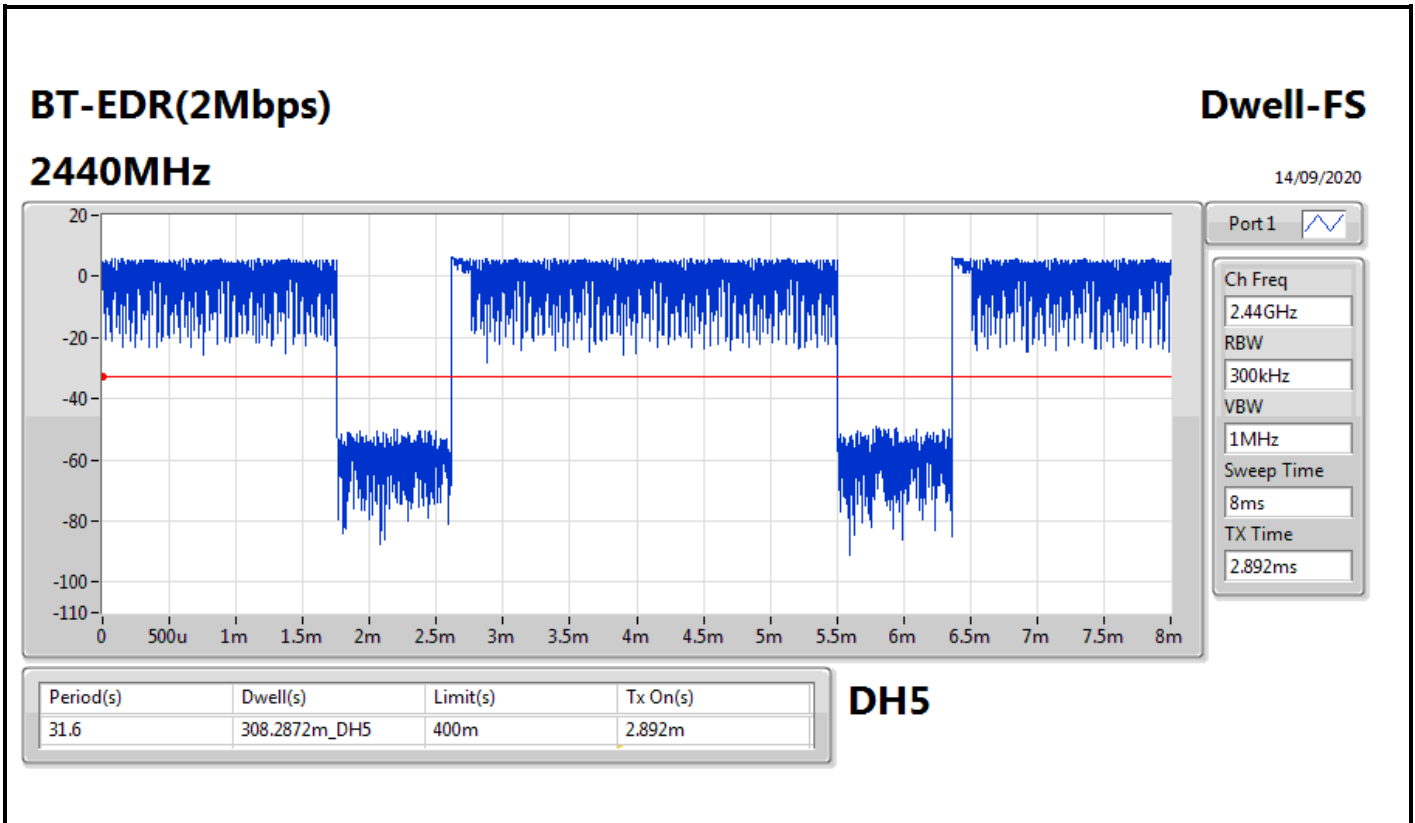
Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.10065m_DH5
BT-EDR(2Mbps)	308.2872m_DH5
BT-EDR(3Mbps)	308.84685m_DH5

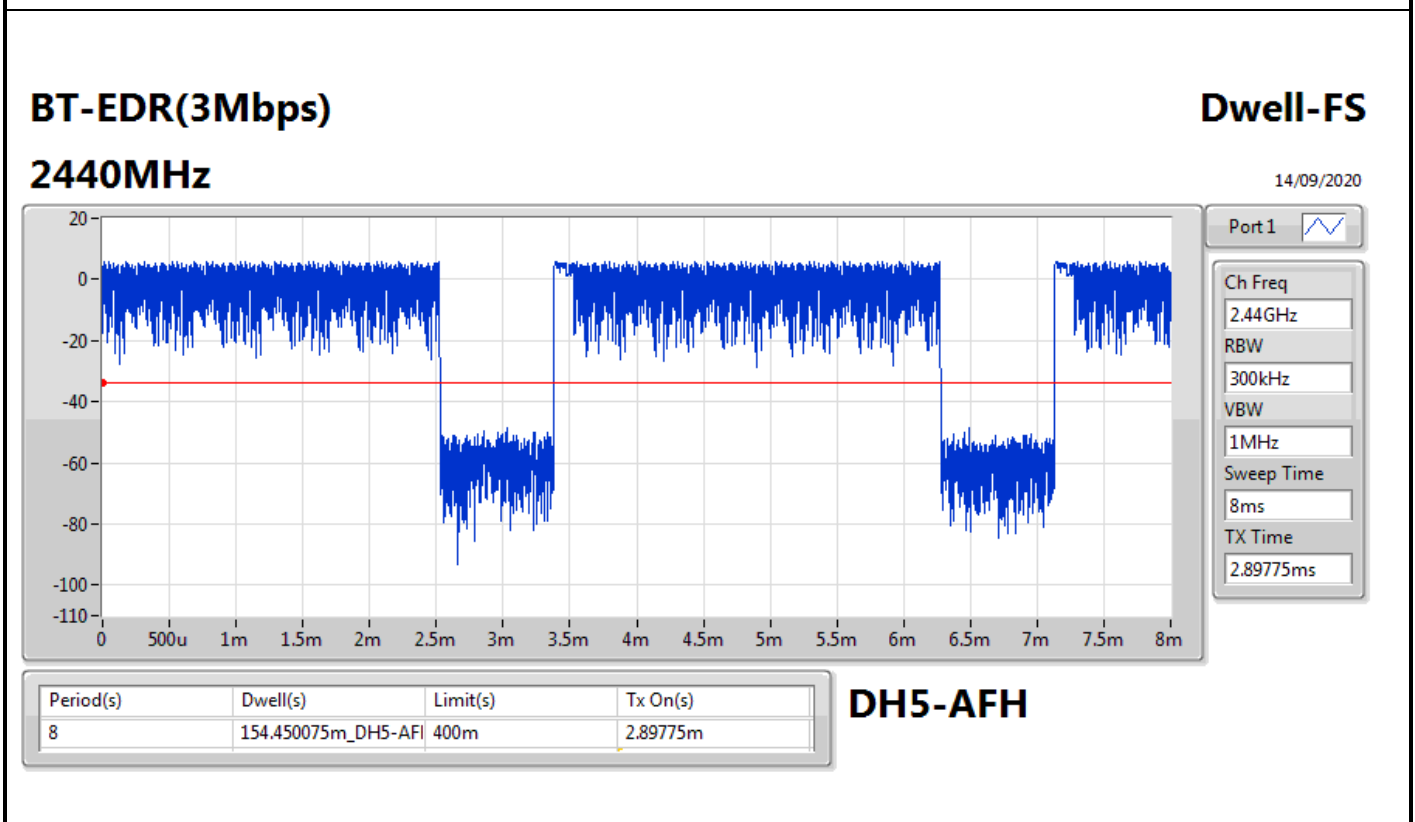
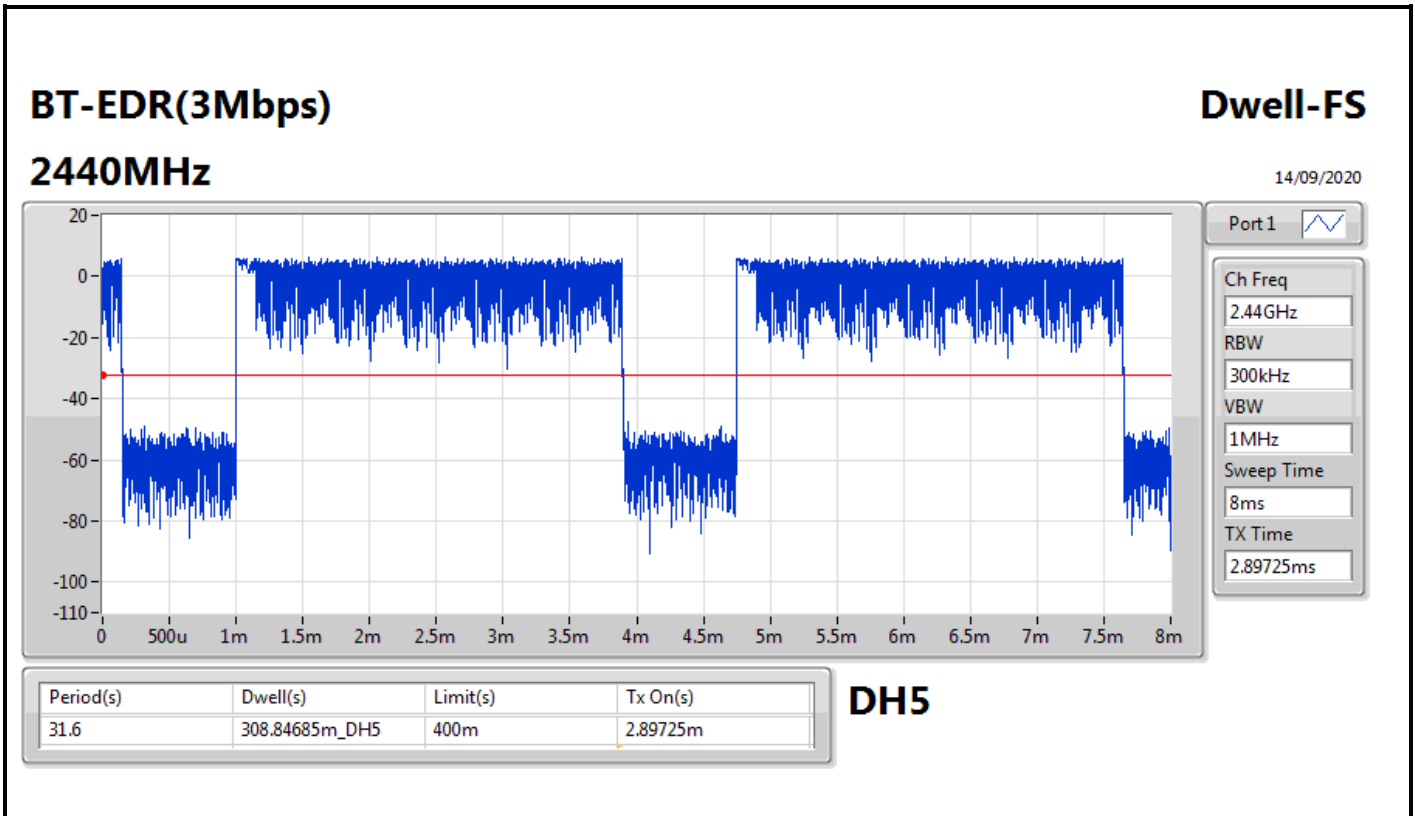


Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz_FHSS	Pass	31.6	308.10065m_DH5	400m	2.89025m
2440MHz_FHSS	Pass	8	154.050325m_DH5-AFH	400m	2.89025m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz_FHSS	Pass	31.6	308.2872m_DH5	400m	2.892m
2440MHz_FHSS	Pass	8	154.156925m_DH5-AFH	400m	2.89225m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz_FHSS	Pass	31.6	308.84685m_DH5	400m	2.89725m
2440MHz_FHSS	Pass	8	154.450075m_DH5-AFH	400m	2.89775m









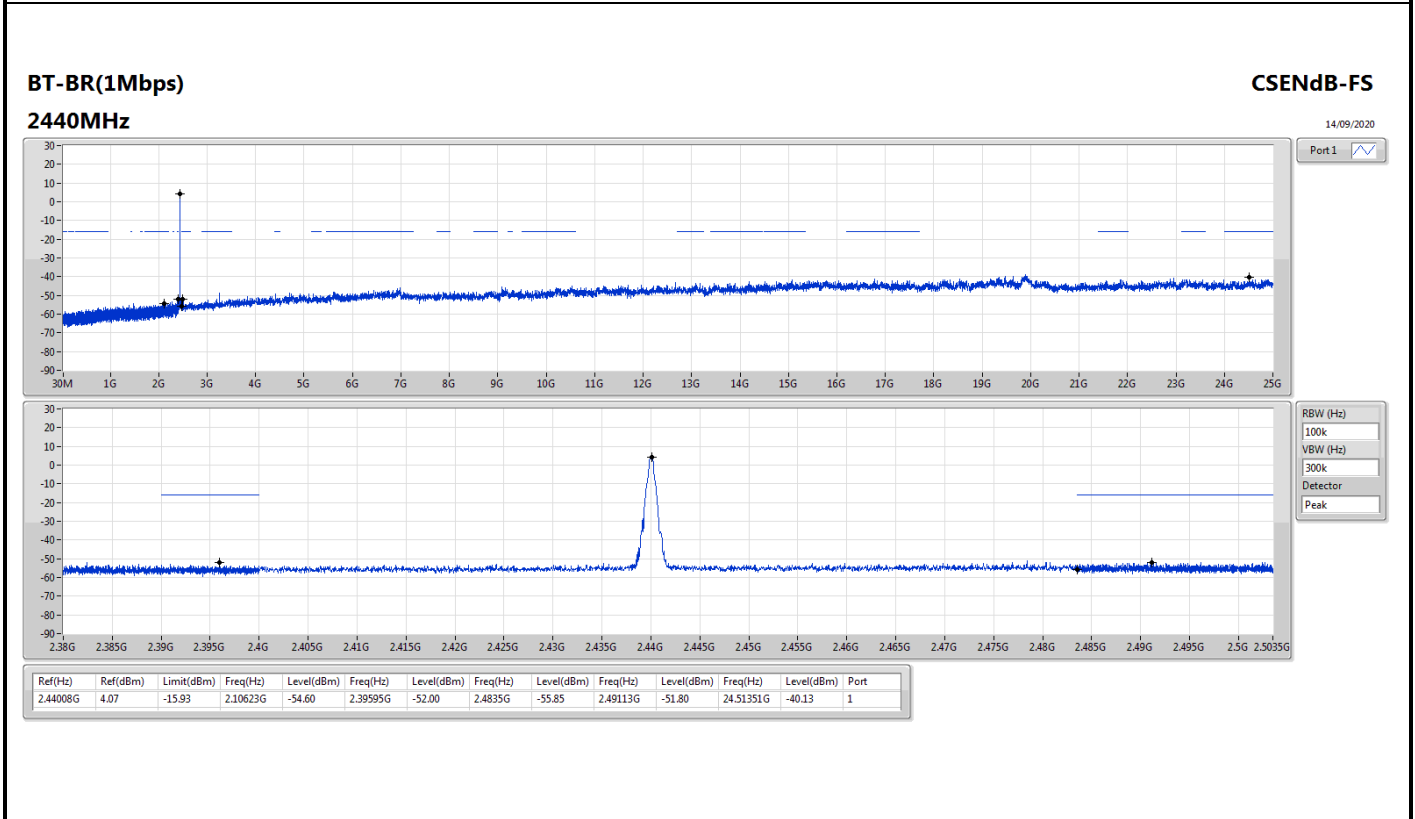
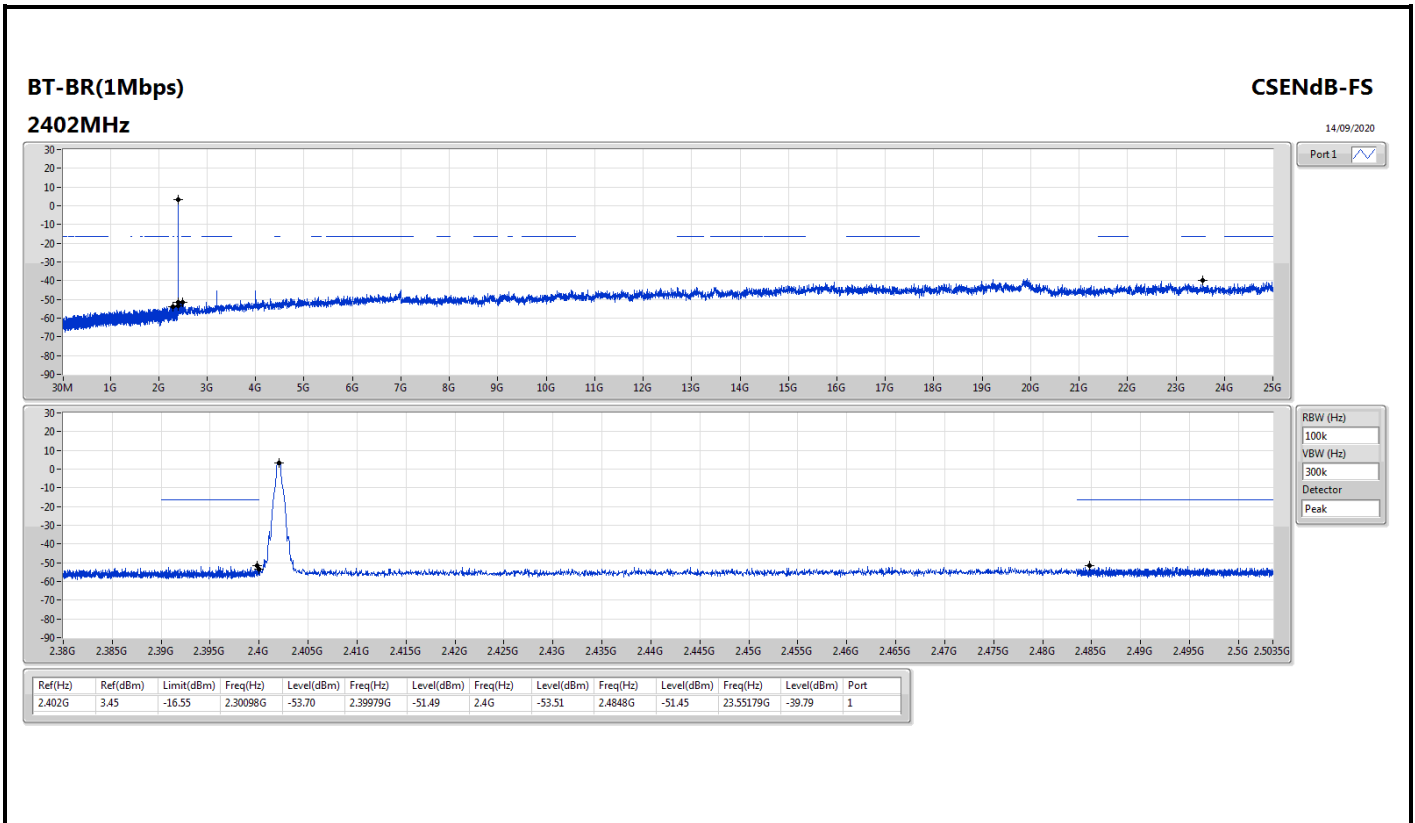
Summary

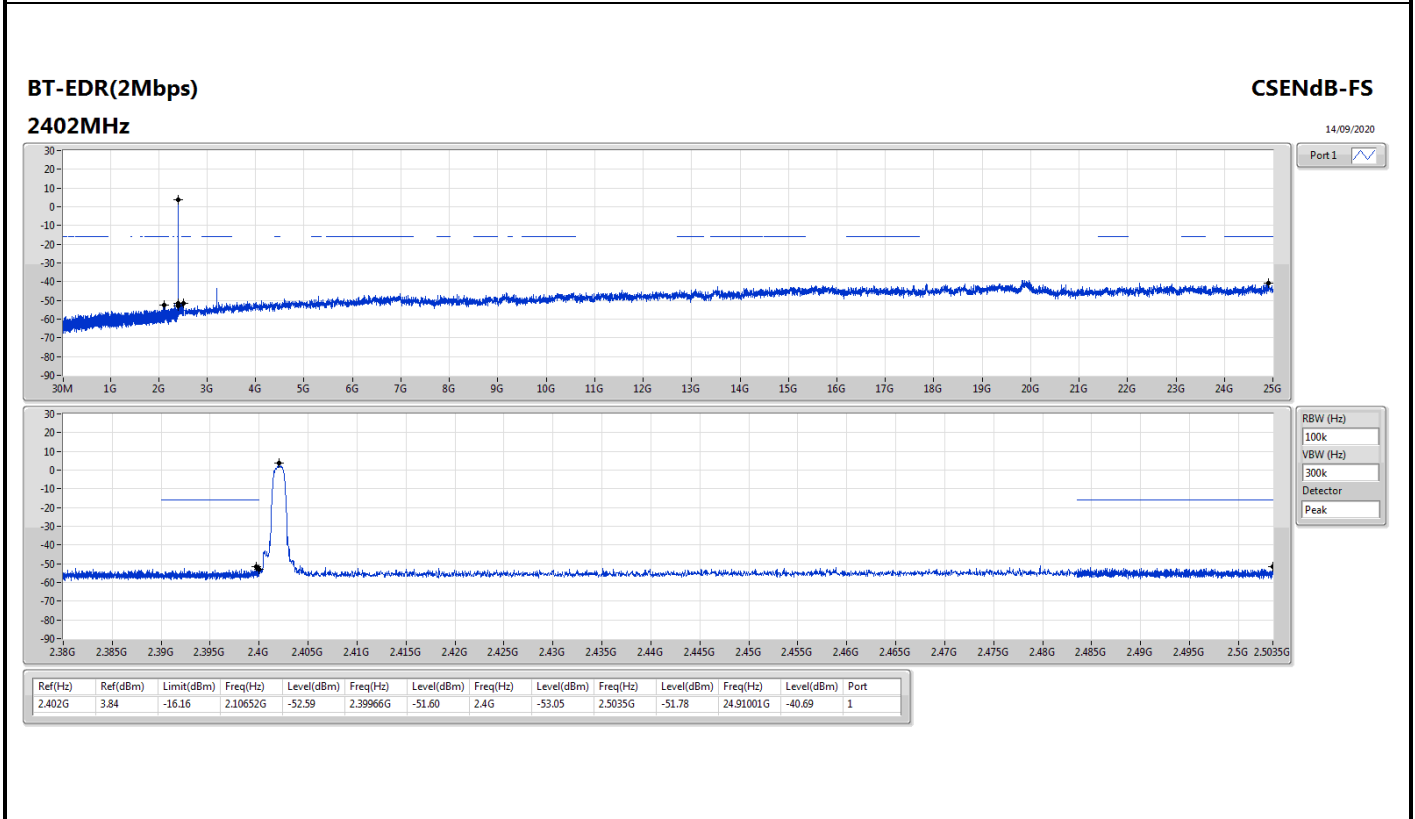
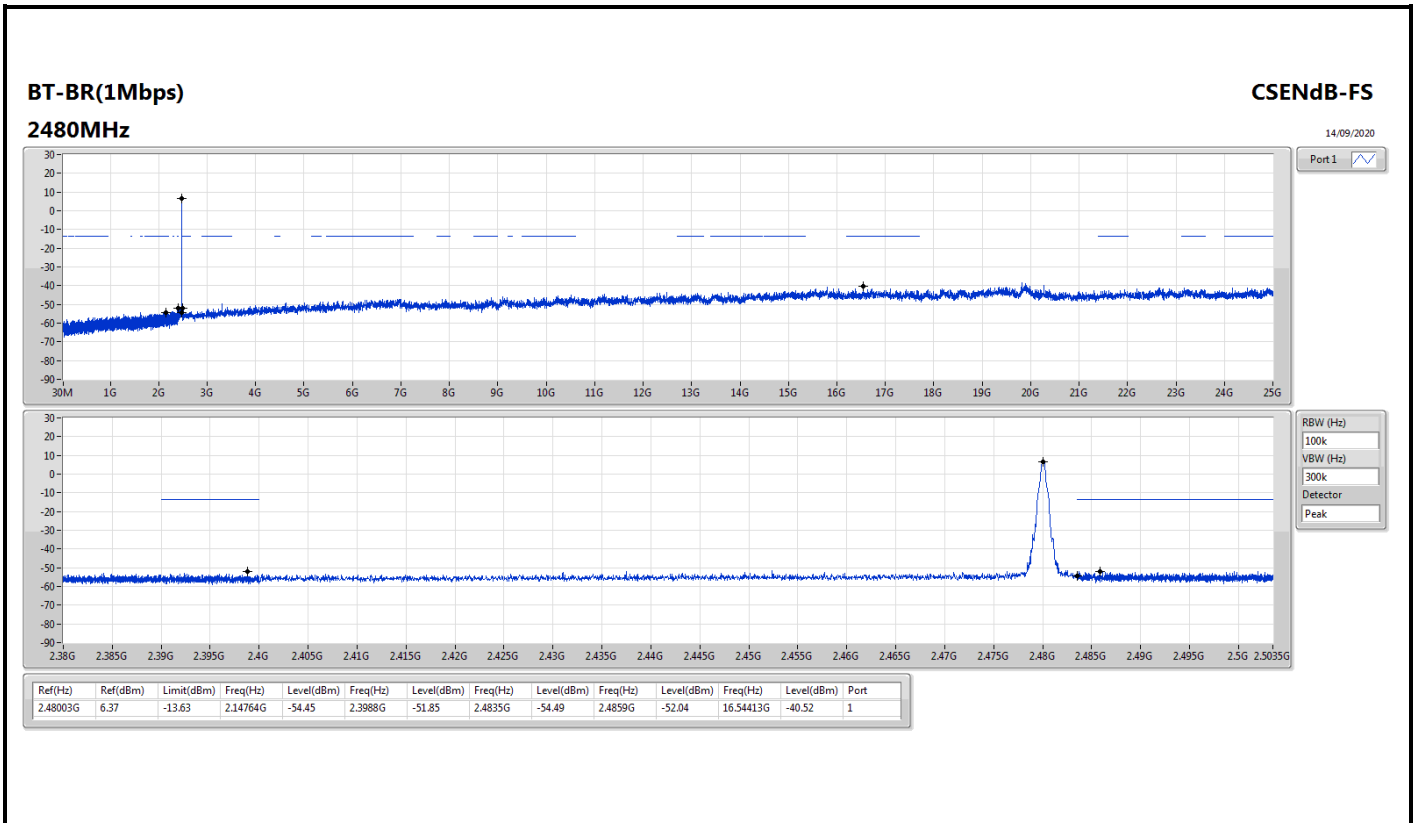
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.402G	3.45	-16.55	2.30098G	-53.70	2.39979G	-51.49	2.4G	-53.51	2.4848G	-51.45	23.55179G	-39.79	1
BT-EDR(2Mbps)	Pass	2.402G	3.84	-16.16	2.10652G	-52.59	2.39966G	-51.60	2.4G	-53.05	2.5035G	-51.78	24.91001G	-40.69	1
BT-EDR(3Mbps)	Pass	2.40192G	3.65	-16.35	2.10975G	-53.71	2.39997G	-51.87	2.4G	-54.55	2.4859G	-51.66	23.25371G	-40.00	1

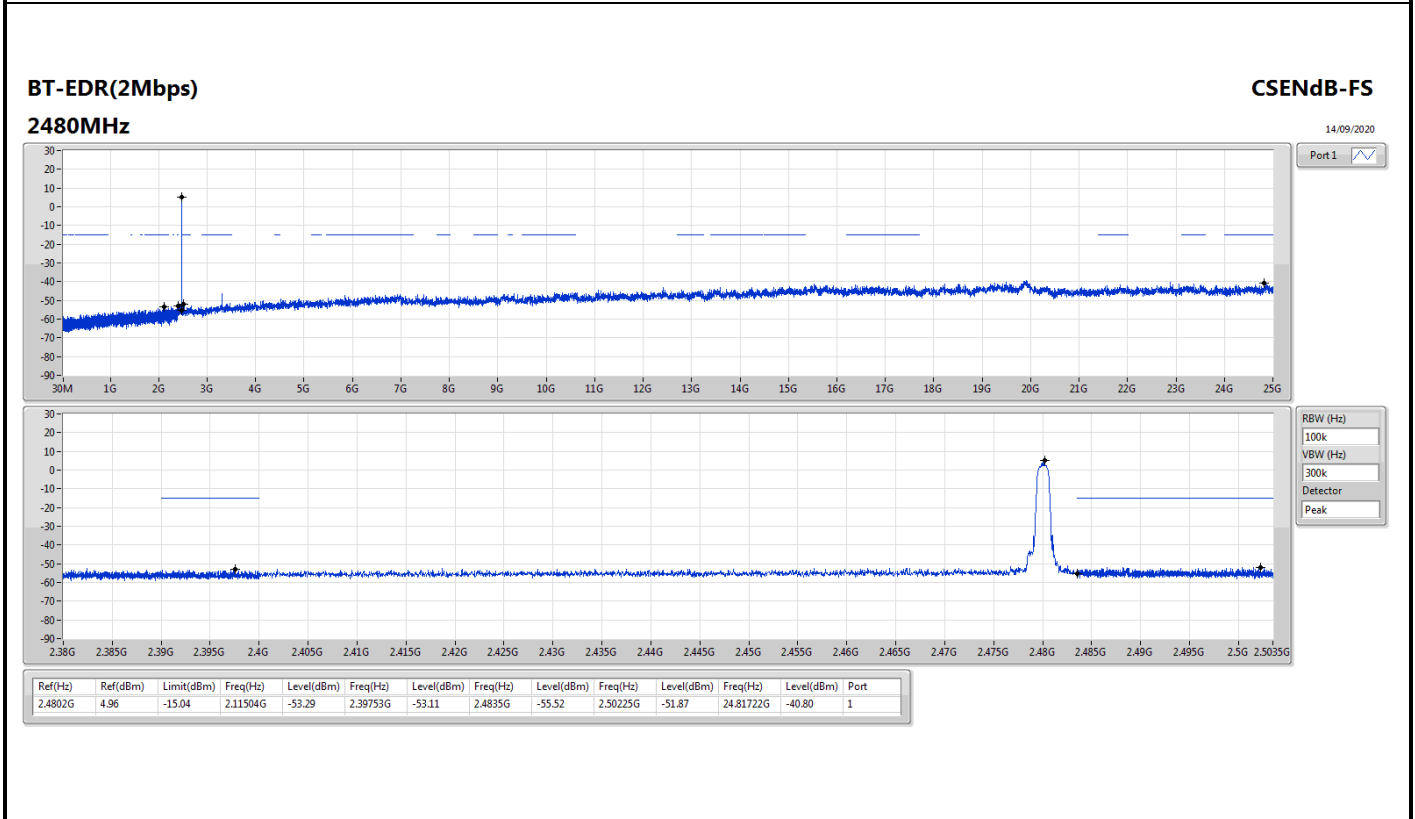
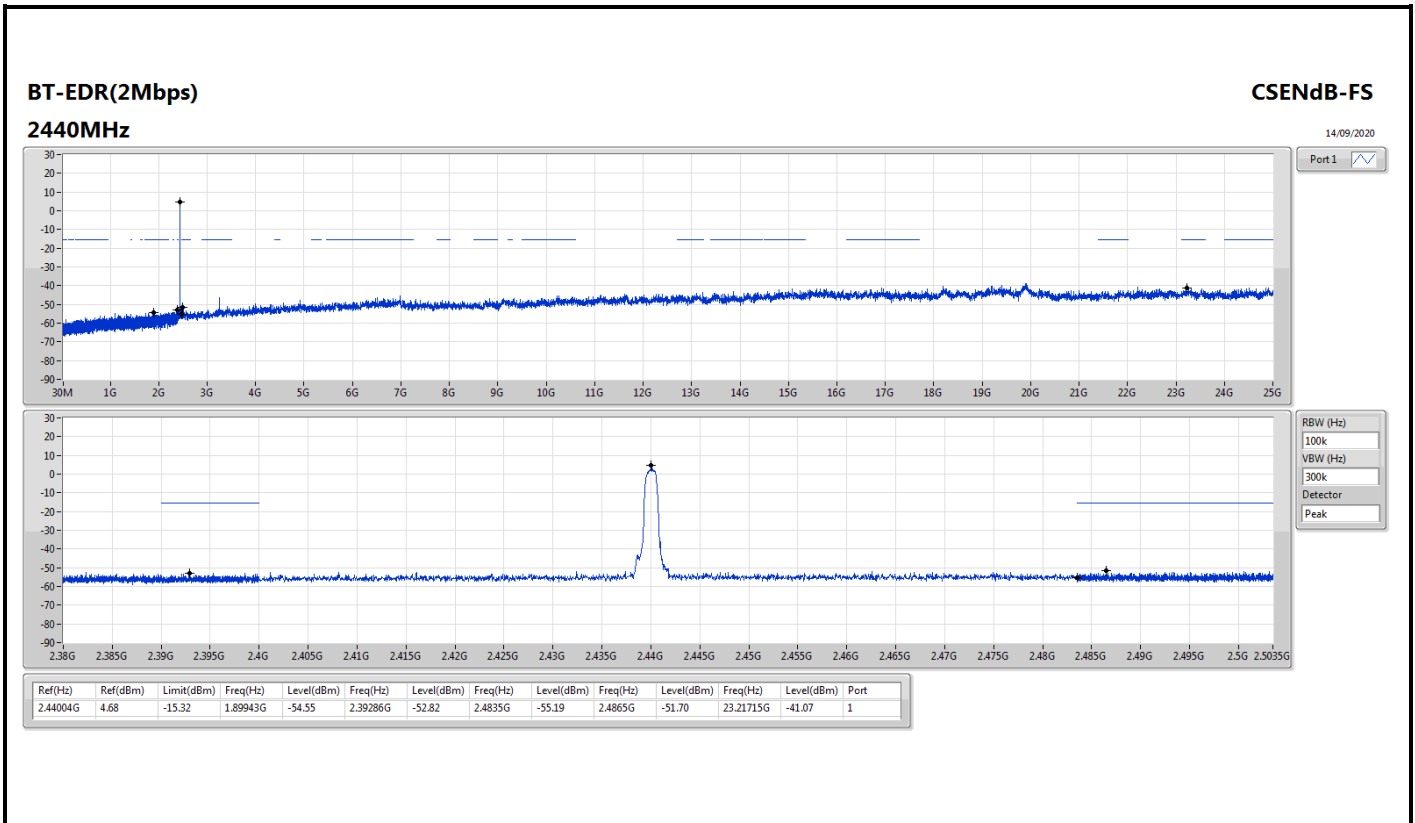


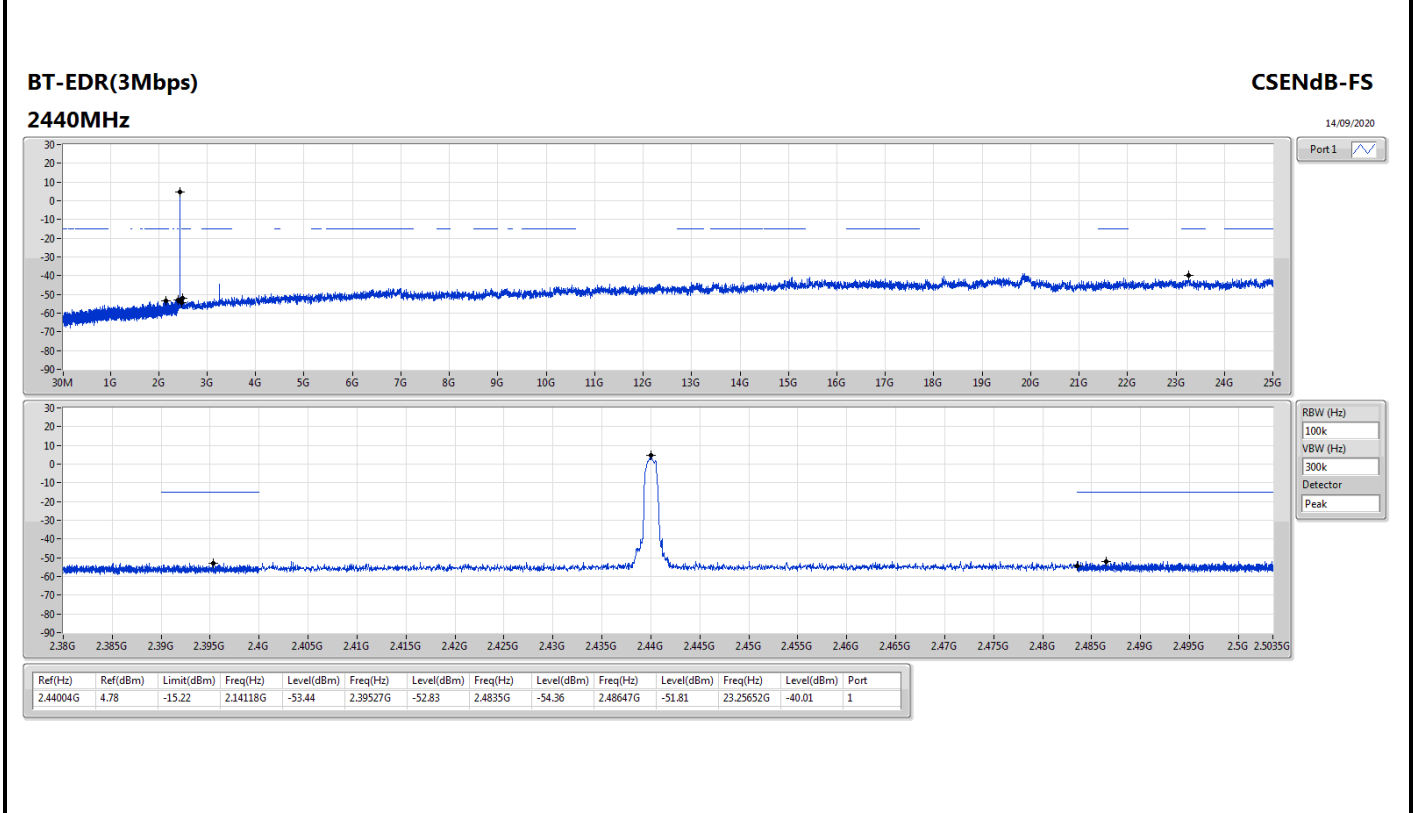
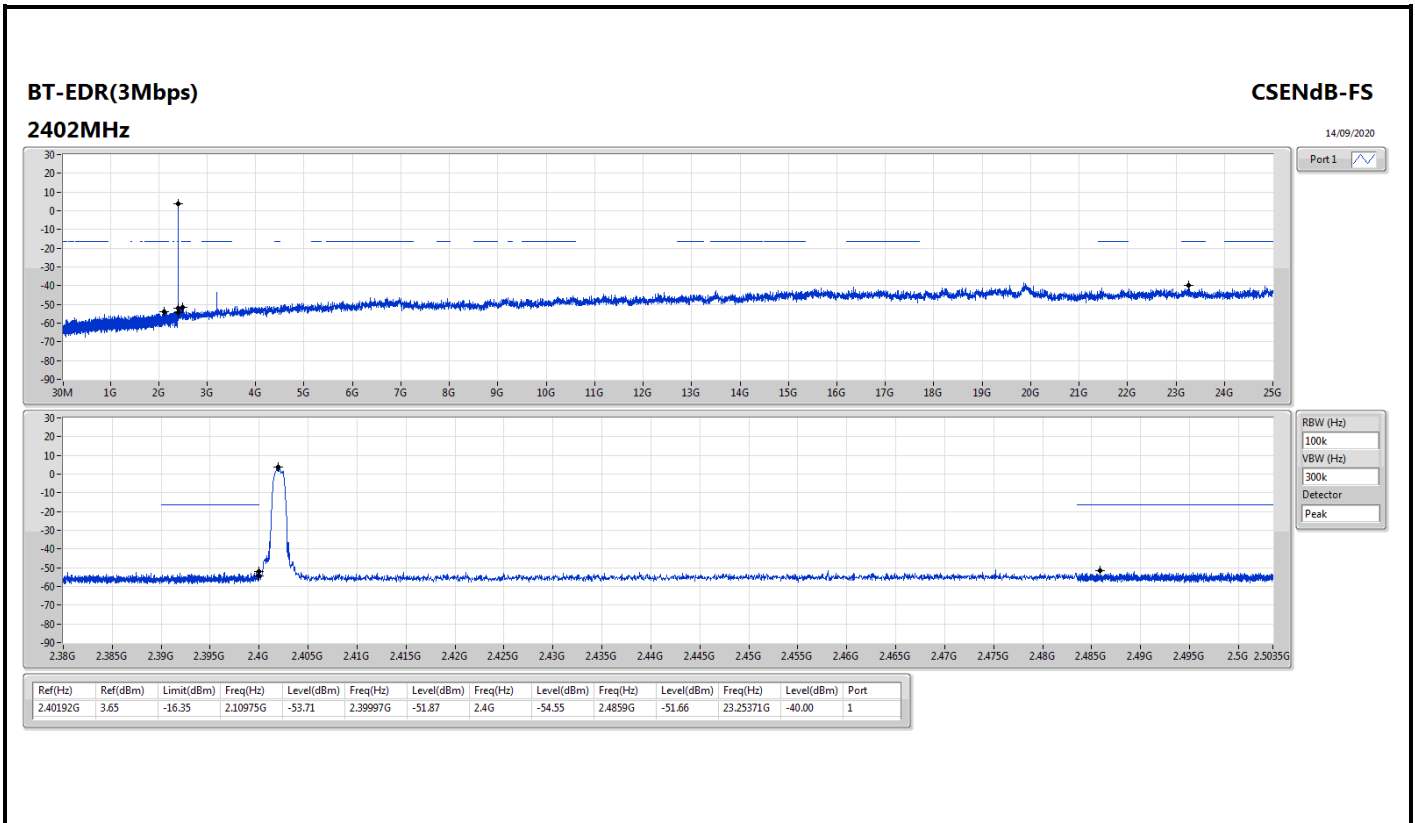
Result

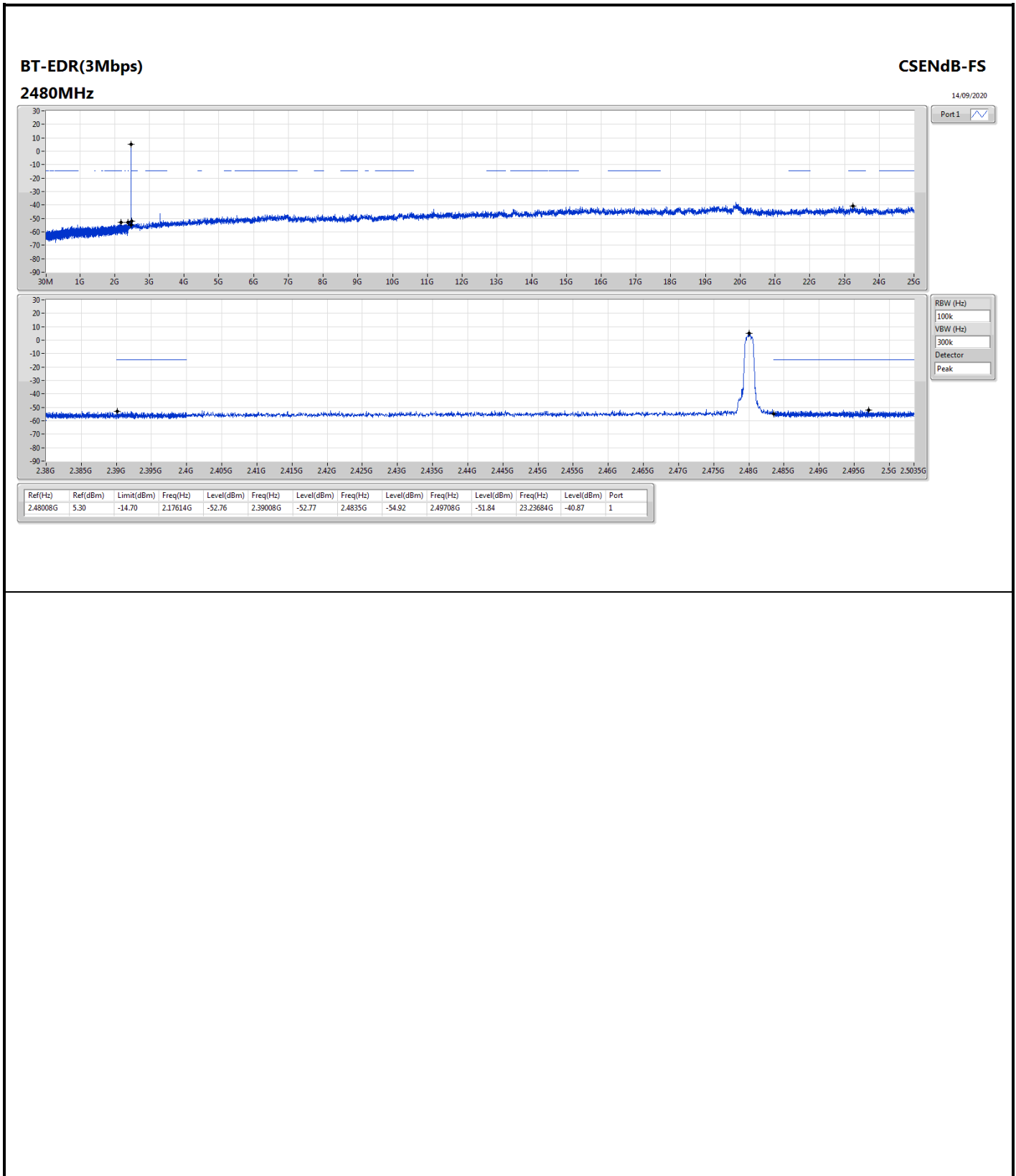
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_FHSS	Pass	2.402G	3.45	-16.55	2.30098G	-53.70	2.39979G	-51.49	2.4G	-53.51	2.4848G	-51.45	23.55179G	-39.79	1
2440MHz_FHSS	Pass	2.44008G	4.07	-15.93	2.10623G	-54.60	2.39595G	-52.00	2.4835G	-55.85	2.49113G	-51.80	24.51351G	-40.13	1
2480MHz_FHSS	Pass	2.48003G	6.37	-13.63	2.14764G	-54.45	2.3988G	-51.85	2.4835G	-54.49	2.4859G	-52.04	16.54413G	-40.52	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_FHSS	Pass	2.402G	3.84	-16.16	2.10652G	-52.59	2.39966G	-51.60	2.4G	-53.05	2.5035G	-51.78	24.91001G	-40.69	1
2440MHz_FHSS	Pass	2.44004G	4.68	-15.32	1.89943G	-54.55	2.39286G	-52.82	2.4835G	-55.19	2.4865G	-51.70	23.21715G	-41.07	1
2480MHz_FHSS	Pass	2.4802G	4.96	-15.04	2.11504G	-53.29	2.39753G	-53.11	2.4835G	-55.52	2.50225G	-51.87	24.81722G	-40.80	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_FHSS	Pass	2.40192G	3.65	-16.35	2.10975G	-53.71	2.39997G	-51.87	2.4G	-54.55	2.4859G	-51.66	23.25371G	-40.00	1
2440MHz_FHSS	Pass	2.44004G	4.78	-15.22	2.14118G	-53.44	2.39527G	-52.83	2.4835G	-54.36	2.48647G	-51.81	23.25652G	-40.01	1
2480MHz_FHSS	Pass	2.48008G	5.30	-14.70	2.17614G	-52.76	2.39008G	-52.77	2.4835G	-54.92	2.49708G	-51.84	23.23684G	-40.87	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	33.88M	35.74	40.00	-4.26	3	Vertical	360	1.00	-



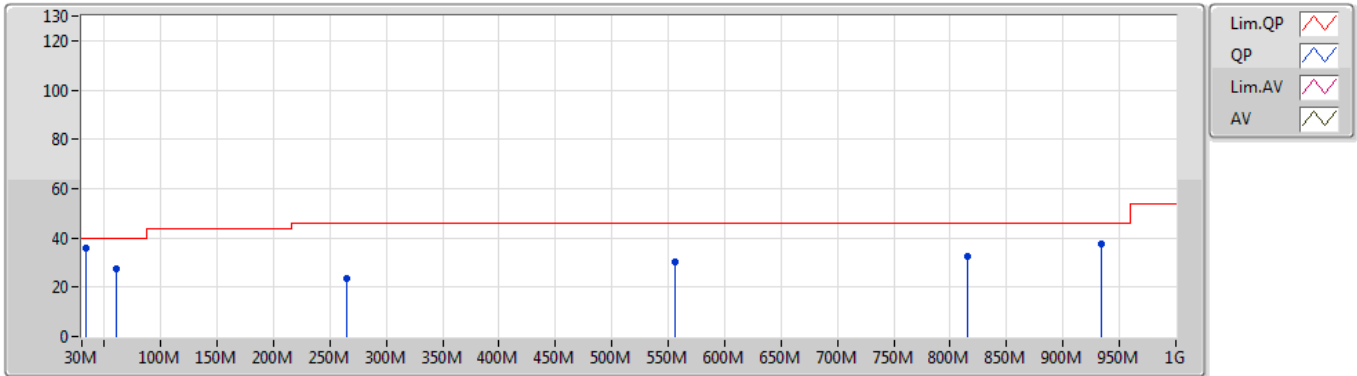
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	33.88M	35.74	40.00	-4.26	3	Vertical	360	1.00	-
2440MHz	Pass	PK	61.04M	27.31	40.00	-12.69	3	Vertical	360	1.00	-
2440MHz	Pass	PK	264.74M	23.43	46.00	-22.57	3	Vertical	360	1.00	-
2440MHz	Pass	PK	555.74M	30.47	46.00	-15.53	3	Vertical	360	1.00	-
2440MHz	Pass	PK	815.7M	32.36	46.00	-13.64	3	Vertical	360	1.00	-
2440MHz	Pass	PK	934.04M	37.70	46.00	-8.30	3	Vertical	360	1.00	-
2440MHz	Pass	PK	33.88M	28.91	40.00	-11.09	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	132.82M	22.22	43.50	-21.28	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	262.8M	24.88	46.00	-21.12	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	431.58M	27.91	46.00	-18.09	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	672.14M	31.53	46.00	-14.47	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	934.04M	39.28	46.00	-6.72	3	Horizontal	0	1.00	-

BT-BR(1Mbps)

13/09/2020

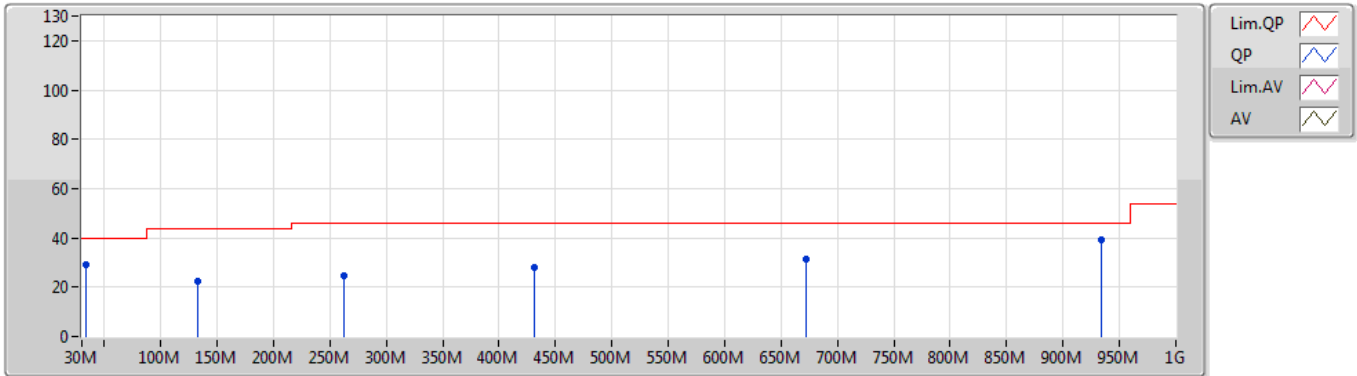
2440MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	33.88M	35.74	40.00	-4.26	-4.92	3	Vertical	360	1.00	-	40.66	21.26	0.78	26.96
PK	61.04M	27.31	40.00	-12.69	-15.15	3	Vertical	360	1.00	-	42.46	11.54	1.10	27.79
PK	264.74M	23.43	46.00	-22.57	-6.00	3	Vertical	360	1.00	-	29.43	18.59	2.46	27.05
PK	555.74M	30.47	46.00	-15.53	-0.59	3	Vertical	360	1.00	-	31.06	24.15	3.62	28.36
PK	815.7M	32.36	46.00	-13.64	1.93	3	Vertical	360	1.00	-	30.43	25.13	4.53	27.73
PK	934.04M	37.70	46.00	-8.30	3.41	3	Vertical	360	1.00	-	34.29	25.84	4.87	27.30

BT-BR(1Mbps)
2440MHz_Adapter

13/09/2020



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	33.88M	28.91	40.00	-11.09	-4.92	3	Horizontal	0	1.00	-	33.83	21.26	0.78	26.96
PK	132.82M	22.22	43.50	-21.28	-9.09	3	Horizontal	0	1.00	-	31.31	16.90	1.66	27.65
PK	262.8M	24.88	46.00	-21.12	-5.93	3	Horizontal	0	1.00	-	30.81	18.67	2.45	27.05
PK	431.58M	27.91	46.00	-18.09	-2.99	3	Horizontal	0	1.00	-	30.90	21.82	3.13	27.94
PK	672.14M	31.53	46.00	-14.47	0.06	3	Horizontal	0	1.00	-	31.47	24.17	4.09	28.20
PK	934.04M	39.28	46.00	-6.72	3.41	3	Horizontal	0	1.00	-	35.87	25.84	4.87	27.30



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	60.05	74.00	-13.95	3	Horizontal	323	2.86	-
BT-EDR(3Mbps)	Pass	PK	2.4835G	58.85	74.00	-15.15	3	Horizontal	321	2.86	-



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	2.3738G	34.88	54.00	-19.12	3	Vertical	284	3.00	-
2402MHz	Pass	AV	2.4022G	78.36	Inf	-Inf	3	Vertical	284	3.00	-
2402MHz	Pass	PK	2.3738G	57.38	74.00	-16.62	3	Vertical	284	3.00	-
2402MHz	Pass	PK	2.4022G	100.86	Inf	-Inf	3	Vertical	284	3.00	-
2402MHz	Pass	AV	2.3802G	35.34	54.00	-18.66	3	Horizontal	315	1.04	-
2402MHz	Pass	AV	2.4022G	82.08	Inf	-Inf	3	Horizontal	315	1.04	-
2402MHz	Pass	PK	2.3802G	57.84	74.00	-16.16	3	Horizontal	315	1.04	-
2402MHz	Pass	PK	2.4022G	104.58	Inf	-Inf	3	Horizontal	315	1.04	-
2402MHz	Pass	AV	4.78912G	20.10	54.00	-33.90	3	Vertical	111	1.00	-
2402MHz	Pass	PK	4.78912G	42.60	74.00	-31.40	3	Vertical	111	1.00	-
2402MHz	Pass	AV	4.80352G	20.42	54.00	-33.58	3	Horizontal	0	2.61	-
2402MHz	Pass	PK	4.80352G	42.92	74.00	-31.08	3	Horizontal	0	2.61	-
2440MHz	Pass	AV	2.3532G	34.91	54.00	-19.09	3	Vertical	86	1.19	-
2440MHz	Pass	AV	2.44G	78.20	Inf	-Inf	3	Vertical	86	1.19	-
2440MHz	Pass	AV	2.4964G	34.22	54.00	-19.78	3	Vertical	86	1.19	-
2440MHz	Pass	PK	2.3532G	57.41	74.00	-16.59	3	Vertical	86	1.19	-
2440MHz	Pass	PK	2.44G	100.70	Inf	-Inf	3	Vertical	86	1.19	-
2440MHz	Pass	PK	2.4964G	56.72	74.00	-17.28	3	Vertical	86	1.19	-
2440MHz	Pass	AV	2.374G	35.96	54.00	-18.04	3	Horizontal	325	3.00	-
2440MHz	Pass	AV	2.44G	82.54	Inf	-Inf	3	Horizontal	325	3.00	-
2440MHz	Pass	AV	2.4908G	34.72	54.00	-19.28	3	Horizontal	325	3.00	-
2440MHz	Pass	PK	2.374G	58.46	74.00	-15.54	3	Horizontal	325	3.00	-
2440MHz	Pass	PK	2.44G	105.04	Inf	-Inf	3	Horizontal	325	3.00	-
2440MHz	Pass	PK	2.4908G	57.22	74.00	-16.78	3	Horizontal	325	3.00	-
2440MHz	Pass	AV	4.87676G	21.00	54.00	-33.00	3	Vertical	228	1.49	-
2440MHz	Pass	PK	4.87676G	43.50	74.00	-30.50	3	Vertical	228	1.49	-
2440MHz	Pass	AV	4.88594G	20.33	54.00	-33.67	3	Horizontal	168	1.47	-
2440MHz	Pass	PK	4.88594G	42.83	74.00	-31.17	3	Horizontal	168	1.47	-
2480MHz	Pass	AV	2.4798G	79.18	Inf	-Inf	3	Vertical	75	1.00	-
2480MHz	Pass	AV	2.4842G	35.21	54.00	-18.79	3	Vertical	75	1.00	-
2480MHz	Pass	PK	2.4798G	101.68	Inf	-Inf	3	Vertical	75	1.00	-
2480MHz	Pass	PK	2.4842G	57.71	74.00	-16.29	3	Vertical	75	1.00	-
2480MHz	Pass	AV	2.4798G	84.35	Inf	-Inf	3	Horizontal	323	2.86	-
2480MHz	Pass	AV	2.4835G	37.55	54.00	-16.45	3	Horizontal	323	2.86	-
2480MHz	Pass	PK	2.4798G	106.85	Inf	-Inf	3	Horizontal	323	2.86	-
2480MHz	Pass	PK	2.4835G	60.05	74.00	-13.95	3	Horizontal	323	2.86	-
2480MHz	Pass	AV	4.96534G	21.11	54.00	-32.89	3	Vertical	28	1.49	-
2480MHz	Pass	PK	4.96534G	43.61	74.00	-30.39	3	Vertical	28	1.49	-
2480MHz	Pass	AV	4.9492G	20.81	54.00	-33.19	3	Horizontal	58	1.00	-
2480MHz	Pass	PK	4.9492G	43.31	74.00	-30.69	3	Horizontal	58	1.00	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3864G	35.06	54.00	-18.94	3	Vertical	281	3.00	-
2402MHz	Pass	AV	2.402G	79.97	Inf	-Inf	3	Vertical	281	3.00	-
2402MHz	Pass	PK	2.3864G	57.56	74.00	-16.44	3	Vertical	281	3.00	-
2402MHz	Pass	PK	2.402G	102.47	Inf	-Inf	3	Vertical	281	3.00	-
2402MHz	Pass	AV	2.377G	35.03	54.00	-18.97	3	Horizontal	319	1.04	-
2402MHz	Pass	AV	2.402G	83.51	Inf	-Inf	3	Horizontal	319	1.04	-
2402MHz	Pass	PK	2.377G	57.53	74.00	-16.47	3	Horizontal	319	1.04	-
2402MHz	Pass	PK	2.402G	106.01	Inf	-Inf	3	Horizontal	319	1.04	-
2402MHz	Pass	AV	4.80527G	20.48	54.00	-33.52	3	Vertical	43	1.49	-
2402MHz	Pass	PK	4.80527G	42.98	74.00	-31.02	3	Vertical	43	1.49	-
2402MHz	Pass	AV	4.80612G	20.56	54.00	-33.44	3	Horizontal	166	1.36	-
2402MHz	Pass	PK	4.80612G	43.06	74.00	-30.94	3	Horizontal	166	1.36	-
2440MHz	Pass	AV	2.354G	34.97	54.00	-19.03	3	Vertical	87	1.18	-
2440MHz	Pass	AV	2.44G	78.92	Inf	-Inf	3	Vertical	87	1.18	-
2440MHz	Pass	AV	2.4876G	35.20	54.00	-18.80	3	Vertical	87	1.18	-
2440MHz	Pass	PK	2.354G	57.47	74.00	-16.53	3	Vertical	87	1.18	-
2440MHz	Pass	PK	2.44G	101.42	Inf	-Inf	3	Vertical	87	1.18	-
2440MHz	Pass	PK	2.4876G	57.70	74.00	-16.30	3	Vertical	87	1.18	-
2440MHz	Pass	AV	2.3616G	35.45	54.00	-18.55	3	Horizontal	325	3.00	-

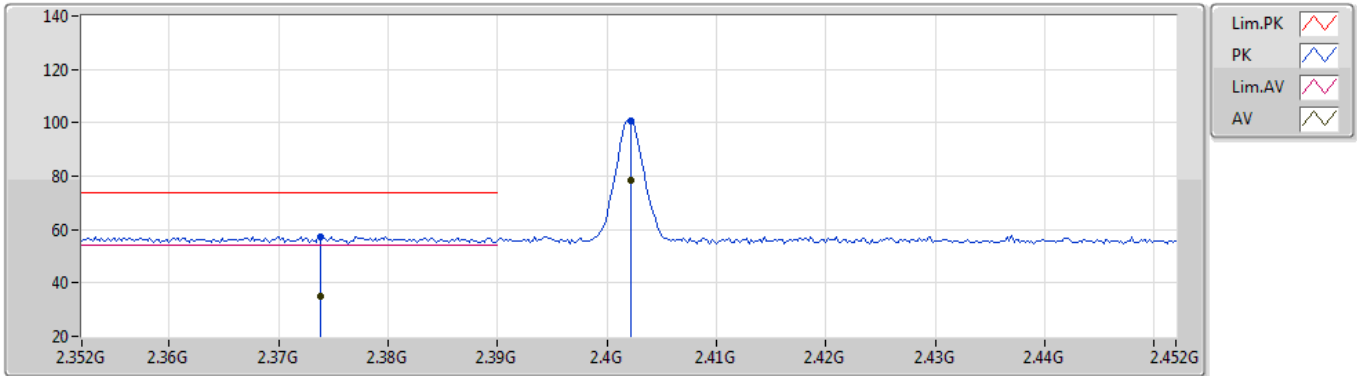


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.44G	84.05	Inf	-Inf	3	Horizontal	325	3.00	-
2440MHz	Pass	AV	2.4884G	35.28	54.00	-18.72	3	Horizontal	325	3.00	-
2440MHz	Pass	PK	2.3616G	57.95	74.00	-16.05	3	Horizontal	325	3.00	-
2440MHz	Pass	PK	2.44G	106.55	Inf	-Inf	3	Horizontal	325	3.00	-
2440MHz	Pass	PK	2.4884G	57.78	74.00	-16.22	3	Horizontal	325	3.00	-
2440MHz	Pass	AV	4.88146G	20.59	54.00	-33.41	3	Vertical	132	1.48	-
2440MHz	Pass	PK	4.87776G	43.09	74.00	-30.91	3	Vertical	132	1.48	-
2440MHz	Pass	AV	4.88221G	20.47	54.00	-33.53	3	Horizontal	3	1.56	-
2440MHz	Pass	PK	4.88221G	42.97	74.00	-31.03	3	Horizontal	3	1.56	-
2480MHz	Pass	AV	2.4798G	77.98	Inf	-Inf	3	Vertical	71	1.00	-
2480MHz	Pass	AV	2.4908G	34.84	54.00	-19.16	3	Vertical	71	1.00	-
2480MHz	Pass	PK	2.4798G	100.48	Inf	-Inf	3	Vertical	71	1.00	-
2480MHz	Pass	PK	2.4908G	57.34	74.00	-16.66	3	Vertical	71	1.00	-
2480MHz	Pass	AV	2.48G	84.40	Inf	-Inf	3	Horizontal	321	2.86	-
2480MHz	Pass	AV	2.4835G	36.35	54.00	-17.65	3	Horizontal	321	2.86	-
2480MHz	Pass	PK	2.48G	106.90	Inf	-Inf	3	Horizontal	321	2.86	-
2480MHz	Pass	PK	2.4835G	58.85	74.00	-15.15	3	Horizontal	321	2.86	-
2480MHz	Pass	AV	4.9576G	21.08	54.00	-32.92	3	Vertical	276	1.49	-
2480MHz	Pass	PK	4.9576G	43.58	74.00	-30.42	3	Vertical	276	1.49	-
2480MHz	Pass	AV	4.95976G	21.19	54.00	-32.81	3	Horizontal	125	1.85	-
2480MHz	Pass	PK	4.95976G	43.69	74.00	-30.31	3	Horizontal	125	1.85	-

BT-BR(1Mbps)

09/09/2020

2402MHz_TX

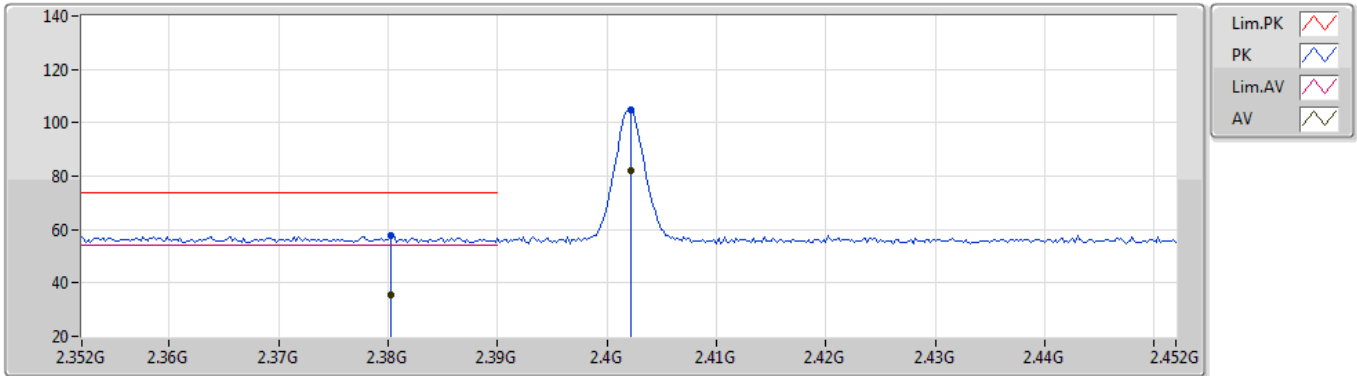


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3738G	34.88	54.00	-19.12	33.59	3	Vertical	284	3.00	-	1.29	27.65	5.94	-
AV	2.4022G	78.36	Inf	-Inf	33.55	3	Vertical	284	3.00	-	44.81	27.59	5.96	-
PK	2.3738G	57.38	74.00	-16.62	33.59	3	Vertical	284	3.00	-	23.79	27.65	5.94	-
PK	2.4022G	100.86	Inf	-Inf	33.55	3	Vertical	284	3.00	-	67.31	27.59	5.96	-

BT-BR(1Mbps)

09/09/2020

2402MHz_TX

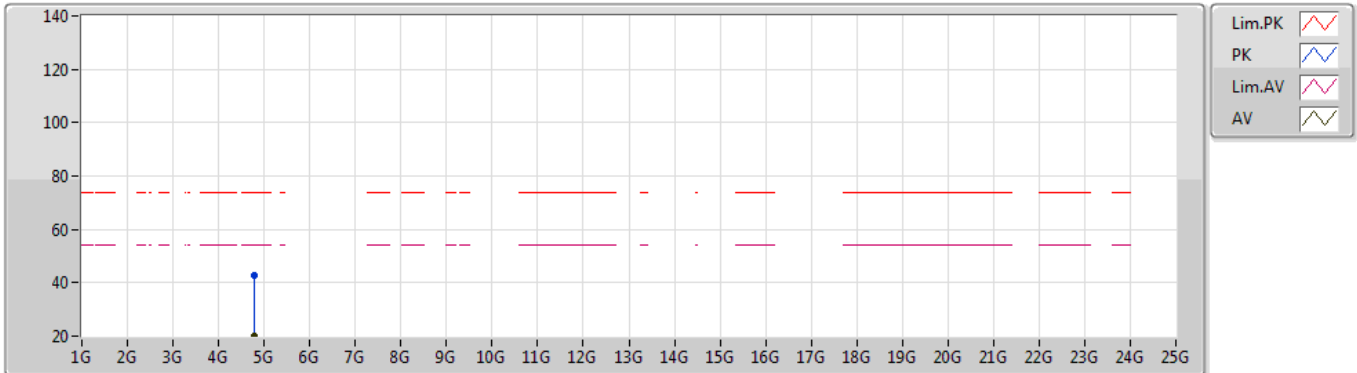


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3802G	35.34	54.00	-18.66	33.59	3	Horizontal	315	1.04	-	1.75	27.64	5.95	-
AV	2.4022G	82.08	Inf	-Inf	33.55	3	Horizontal	315	1.04	-	48.53	27.59	5.96	-
PK	2.3802G	57.84	74.00	-16.16	33.59	3	Horizontal	315	1.04	-	24.25	27.64	5.95	-
PK	2.4022G	104.58	Inf	-Inf	33.55	3	Horizontal	315	1.04	-	71.03	27.59	5.96	-

BT-BR(1Mbps)

09/09/2020

2402MHz_TX

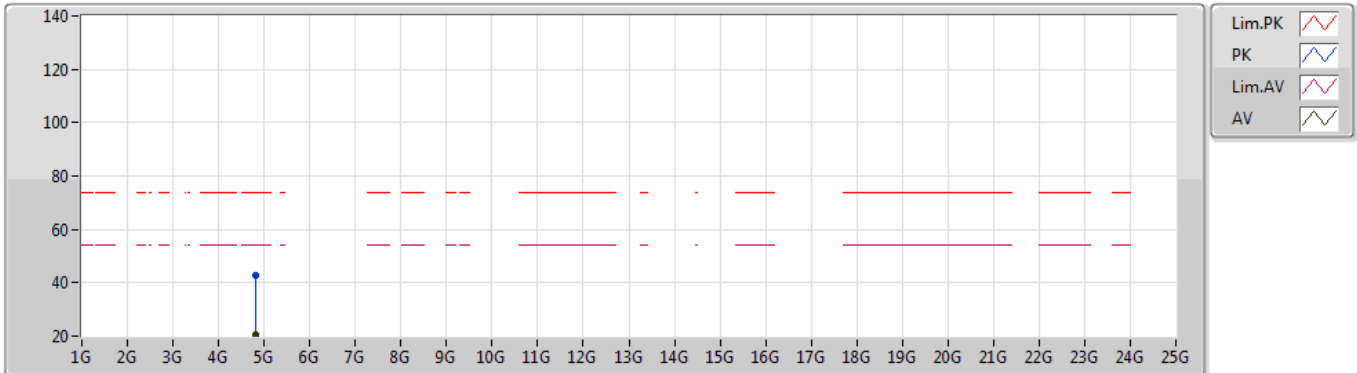


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.78912G	20.10	54.00	-33.90	5.27	3	Vertical	111	1.00	-	14.83	30.94	8.25	33.92
PK	4.78912G	42.60	74.00	-31.40	5.27	3	Vertical	111	1.00	-	37.33	30.94	8.25	33.92

BT-BR(1Mbps)

09/09/2020

2402MHz_TX

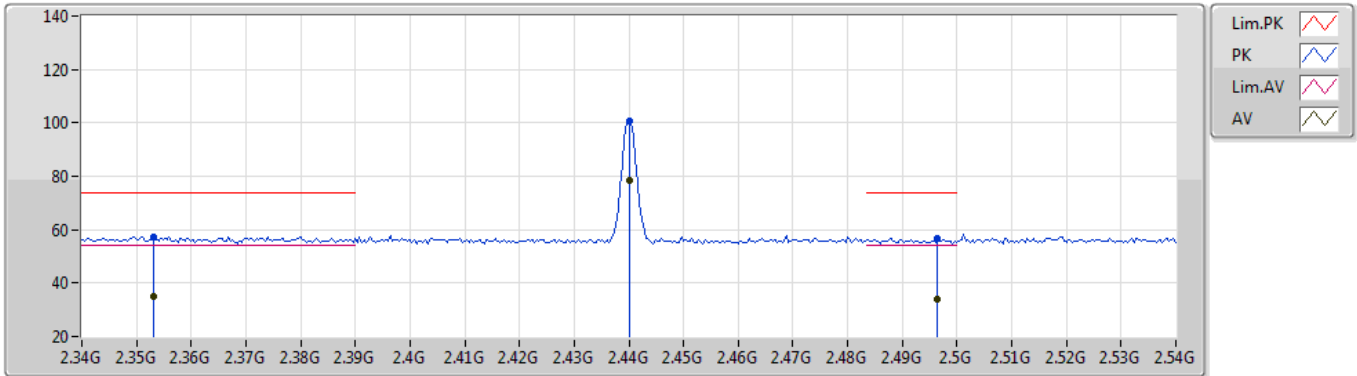


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80352G	20.42	54.00	-33.58	5.25	3	Horizontal	0	2.61	-	15.17	30.91	8.25	33.91
PK	4.80352G	42.92	74.00	-31.08	5.25	3	Horizontal	0	2.61	-	37.67	30.91	8.25	33.91

BT-BR(1Mbps)

09/09/2020

2440MHz_TX

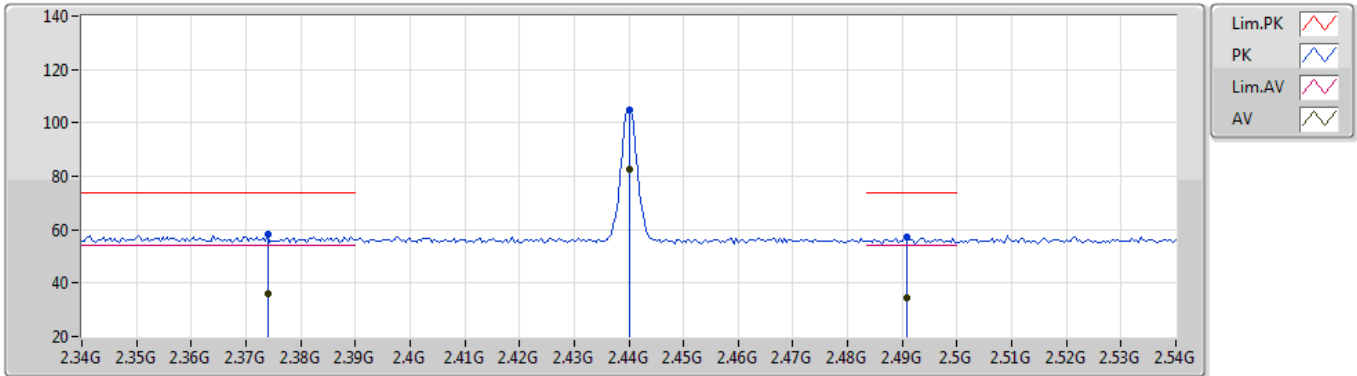


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3532G	34.91	54.00	-19.09	33.61	3	Vertical	86	1.19	-	1.30	27.69	5.92	-
AV	2.44G	78.20	Inf	-Inf	33.45	3	Vertical	86	1.19	-	44.75	27.44	6.01	-
AV	2.4964G	34.22	54.00	-19.78	33.48	3	Vertical	86	1.19	-	0.74	27.40	6.08	-
PK	2.3532G	57.41	74.00	-16.59	33.61	3	Vertical	86	1.19	-	23.80	27.69	5.92	-
PK	2.44G	100.70	Inf	-Inf	33.45	3	Vertical	86	1.19	-	67.25	27.44	6.01	-
PK	2.4964G	56.72	74.00	-17.28	33.48	3	Vertical	86	1.19	-	23.24	27.40	6.08	-

BT-BR(1Mbps)

09/09/2020

2440MHz_TX

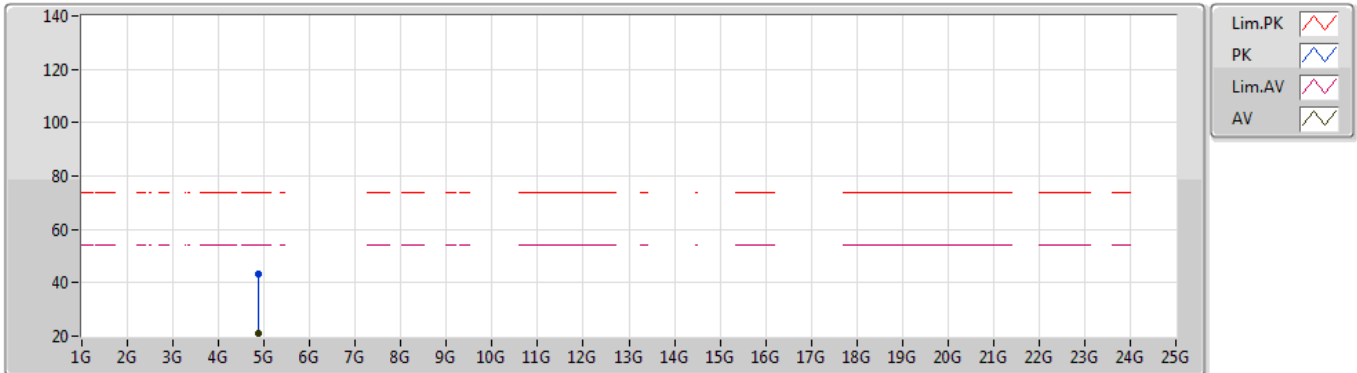


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.374G	35.96	54.00	-18.04	33.59	3	Horizontal	325	3.00	-	2.37	27.65	5.94	-
AV	2.44G	82.54	Inf	-Inf	33.45	3	Horizontal	325	3.00	-	49.09	27.44	6.01	-
AV	2.4908G	34.72	54.00	-19.28	33.47	3	Horizontal	325	3.00	-	1.25	27.40	6.07	-
PK	2.374G	58.46	74.00	-15.54	33.59	3	Horizontal	325	3.00	-	24.87	27.65	5.94	-
PK	2.44G	105.04	Inf	-Inf	33.45	3	Horizontal	325	3.00	-	71.59	27.44	6.01	-
PK	2.4908G	57.22	74.00	-16.78	33.47	3	Horizontal	325	3.00	-	23.75	27.40	6.07	-

BT-BR(1Mbps)

09/09/2020

2440MHz_TX

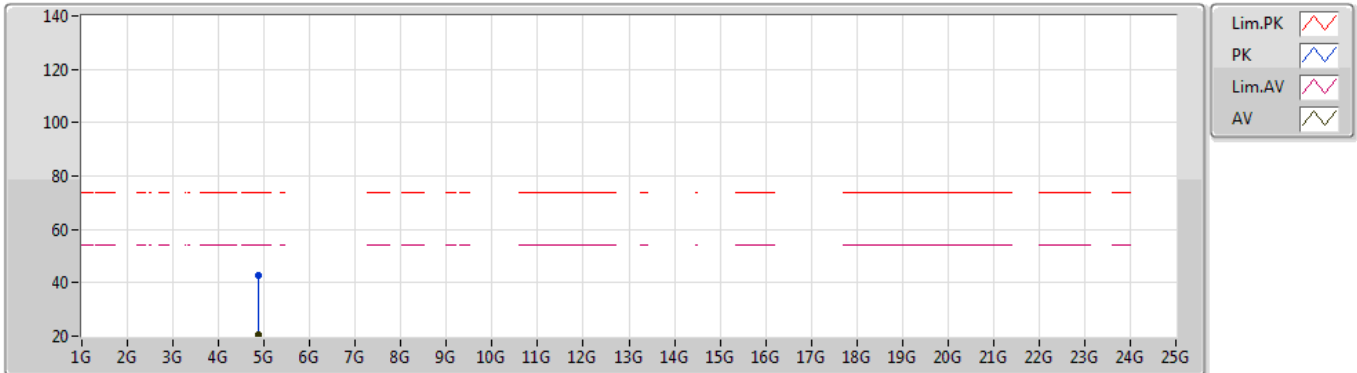


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87676G	21.00	54.00	-33.00	5.48	3	Vertical	228	1.49	-	15.52	31.05	8.30	33.87
PK	4.87676G	43.50	74.00	-30.50	5.48	3	Vertical	228	1.49	-	38.02	31.05	8.30	33.87

BT-BR(1Mbps)

09/09/2020

2440MHz_TX

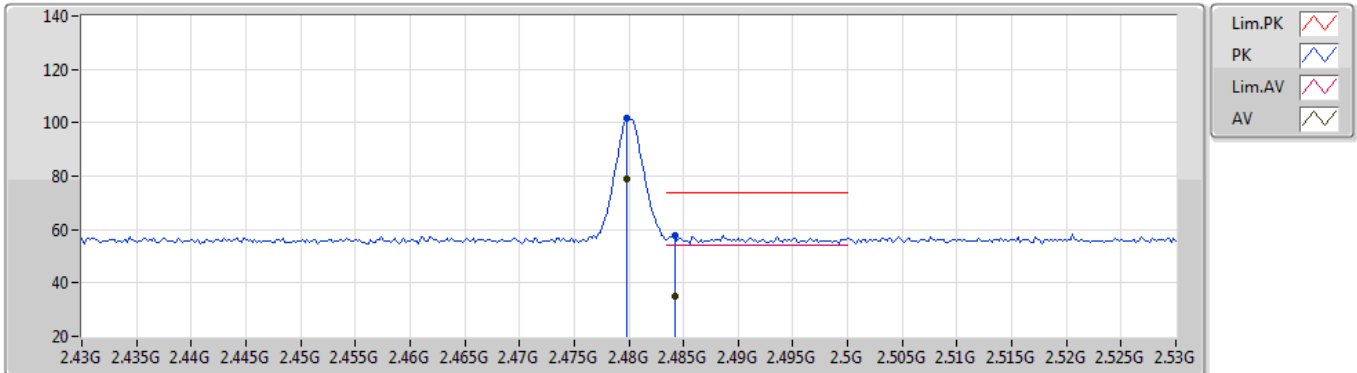


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88594G	20.33	54.00	-33.67	5.47	3	Horizontal	168	1.47	-	14.86	31.03	8.31	33.87
PK	4.88594G	42.83	74.00	-31.17	5.47	3	Horizontal	168	1.47	-	37.36	31.03	8.31	33.87

BT-BR(1Mbps)

09/09/2020

2480MHz_TX

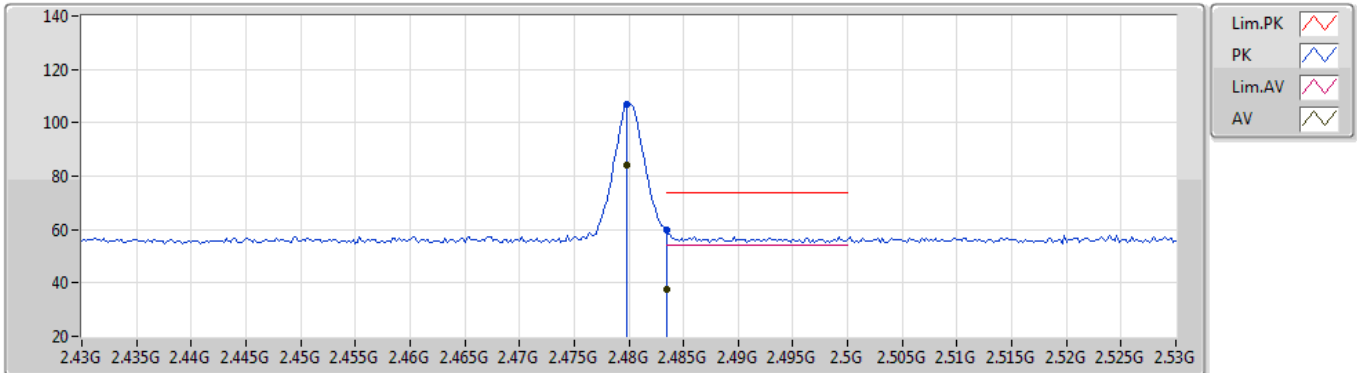


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	79.18	Inf	-Inf	33.46	3	Vertical	75	1.00	-	45.72	27.40	6.06	-
AV	2.4842G	35.21	54.00	-18.79	33.46	3	Vertical	75	1.00	-	1.75	27.40	6.06	-
PK	2.4798G	101.68	Inf	-Inf	33.46	3	Vertical	75	1.00	-	68.22	27.40	6.06	-
PK	2.4842G	57.71	74.00	-16.29	33.46	3	Vertical	75	1.00	-	24.25	27.40	6.06	-

BT-BR(1Mbps)

09/09/2020

2480MHz_TX

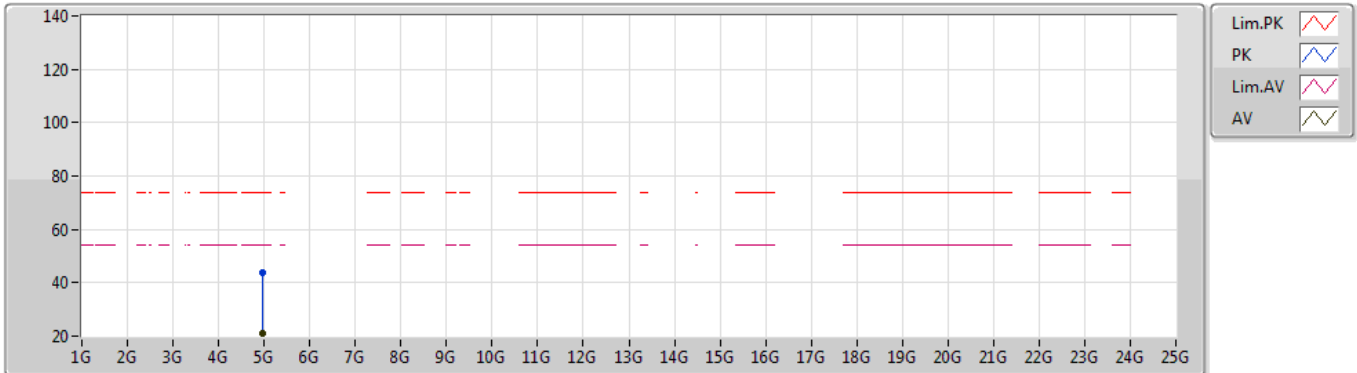


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	84.35	Inf	-Inf	33.46	3	Horizontal	323	2.86	-	50.89	27.40	6.06	-
AV	2.4835G	37.55	54.00	-16.45	33.46	3	Horizontal	323	2.86	-	4.09	27.40	6.06	-
PK	2.4798G	106.85	Inf	-Inf	33.46	3	Horizontal	323	2.86	-	73.39	27.40	6.06	-
PK	2.4835G	60.05	74.00	-13.95	33.46	3	Horizontal	323	2.86	-	26.59	27.40	6.06	-

BT-BR(1Mbps)

09/09/2020

2480MHz_TX

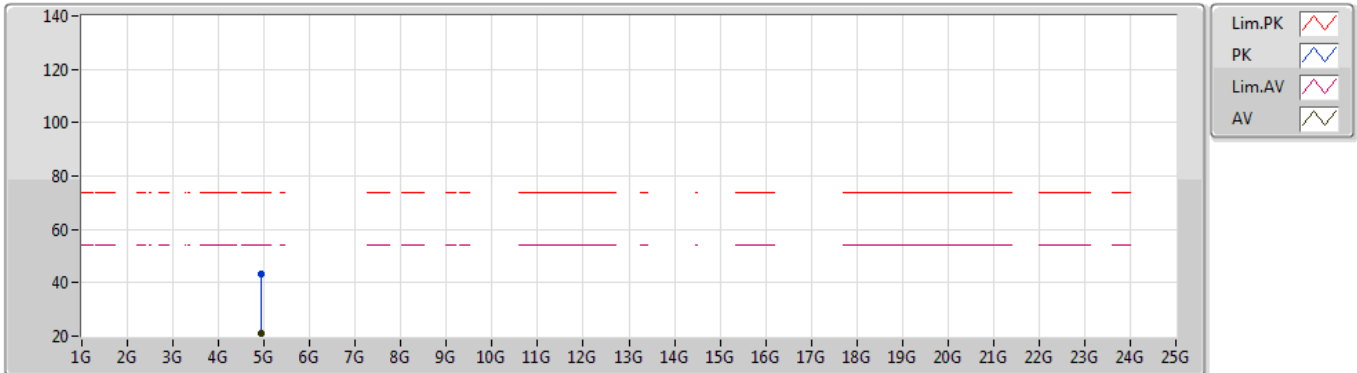


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96534G	21.11	54.00	-32.89	5.77	3	Vertical	28	1.49	-	15.34	31.23	8.36	33.82
PK	4.96534G	43.61	74.00	-30.39	5.77	3	Vertical	28	1.49	-	37.84	31.23	8.36	33.82

BT-BR(1Mbps)

09/09/2020

2480MHz_TX

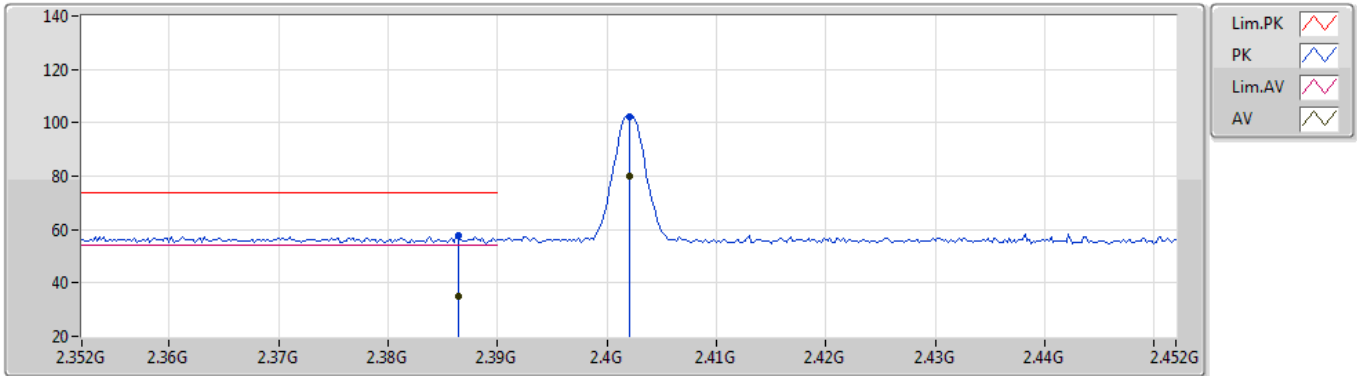


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9492G	20.81	54.00	-33.19	5.72	3	Horizontal	58	1.00	-	15.09	31.20	8.35	33.83
PK	4.9492G	43.31	74.00	-30.69	5.72	3	Horizontal	58	1.00	-	37.59	31.20	8.35	33.83

BT-EDR(3Mbps)

09/09/2020

2402MHz_TX

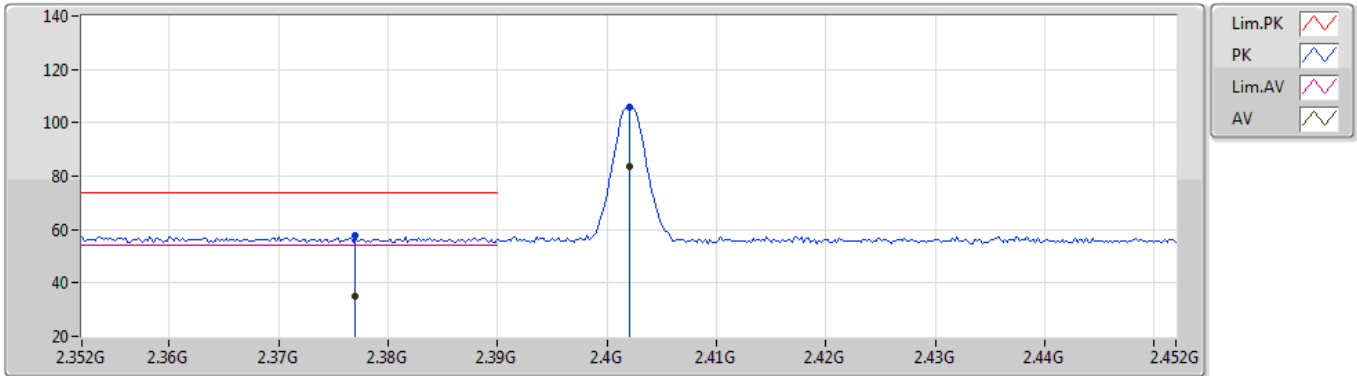


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3864G	35.06	54.00	-18.94	33.58	3	Vertical	281	3.00	-	1.48	27.63	5.95	-
AV	2.402G	79.97	Inf	-Inf	33.55	3	Vertical	281	3.00	-	46.42	27.59	5.96	-
PK	2.3864G	57.56	74.00	-16.44	33.58	3	Vertical	281	3.00	-	23.98	27.63	5.95	-
PK	2.402G	102.47	Inf	-Inf	33.55	3	Vertical	281	3.00	-	68.92	27.59	5.96	-

BT-EDR(3Mbps)

09/09/2020

2402MHz_TX

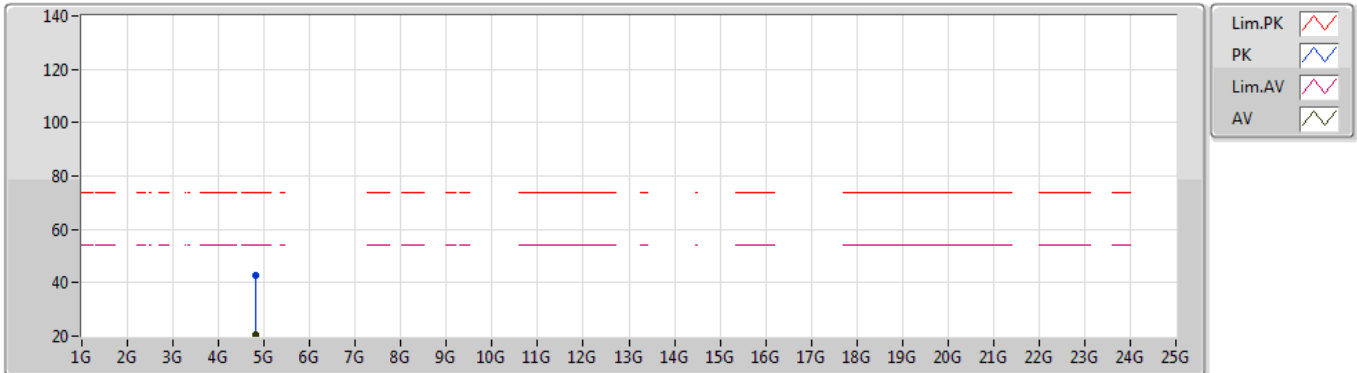


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.377G	35.03	54.00	-18.97	33.59	3	Horizontal	319	1.04	-	1.44	27.65	5.94	-
AV	2.402G	83.51	Inf	-Inf	33.55	3	Horizontal	319	1.04	-	49.96	27.59	5.96	-
PK	2.377G	57.53	74.00	-16.47	33.59	3	Horizontal	319	1.04	-	23.94	27.65	5.94	-
PK	2.402G	106.01	Inf	-Inf	33.55	3	Horizontal	319	1.04	-	72.46	27.59	5.96	-

BT-EDR(3Mbps)

09/09/2020

2402MHz_TX

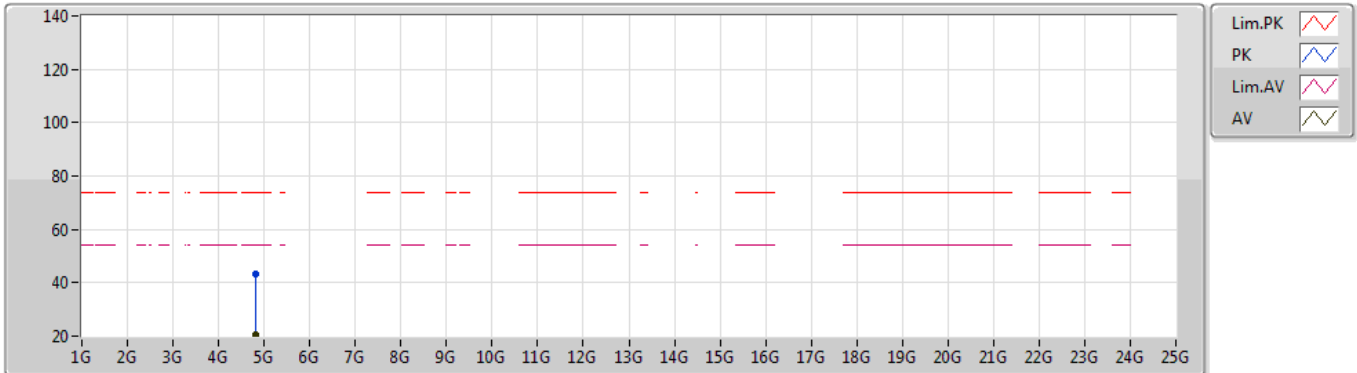


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80527G	20.48	54.00	-33.52	5.26	3	Vertical	43	1.49	-	15.22	30.92	8.25	33.91
PK	4.80527G	42.98	74.00	-31.02	5.26	3	Vertical	43	1.49	-	37.72	30.92	8.25	33.91

BT-EDR(3Mbps)

09/09/2020

2402MHz_TX

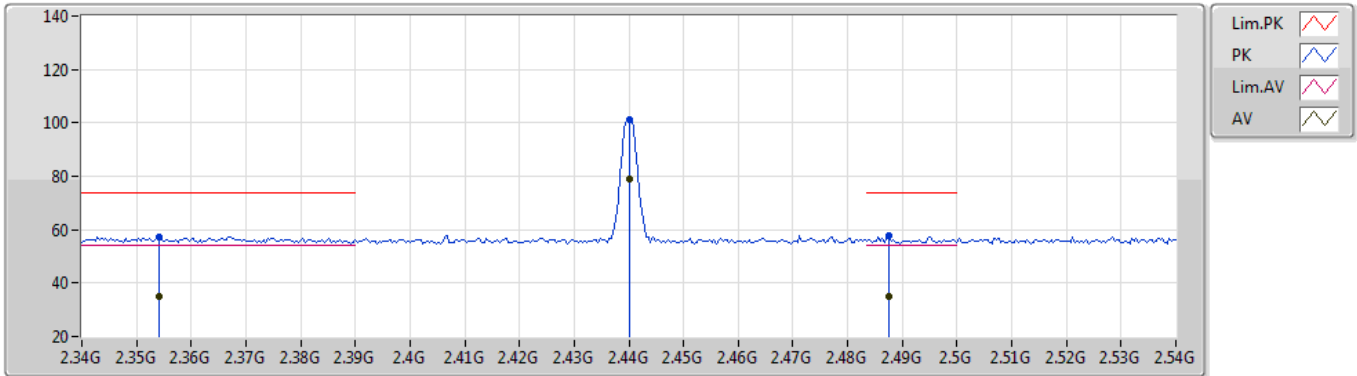


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80612G	20.56	54.00	-33.44	5.26	3	Horizontal	166	1.36	-	15.30	30.92	8.25	33.91
PK	4.80612G	43.06	74.00	-30.94	5.26	3	Horizontal	166	1.36	-	37.80	30.92	8.25	33.91

BT-EDR(3Mbps)

09/09/2020

2440MHz_TX

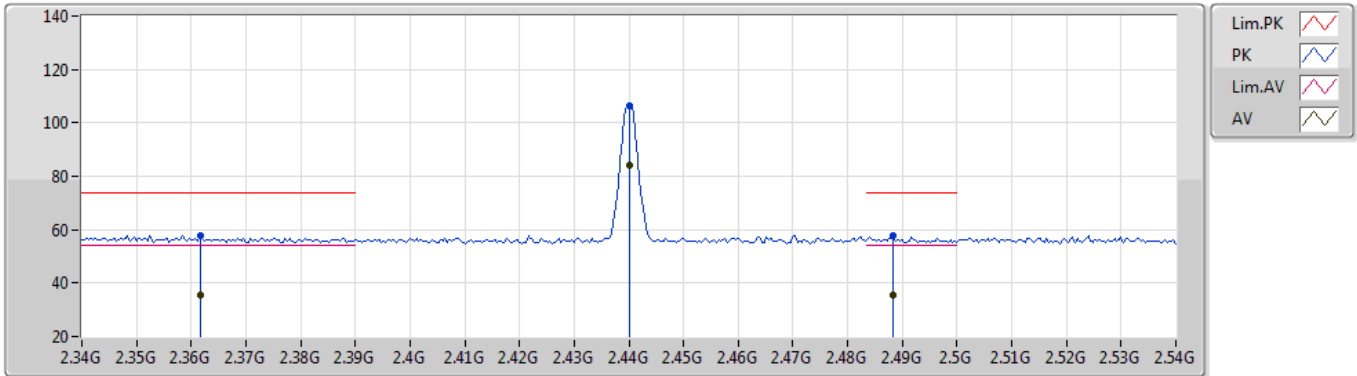


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.354G	34.97	54.00	-19.03	33.62	3	Vertical	87	1.18	-	1.35	27.69	5.93	-
AV	2.44G	78.92	Inf	-Inf	33.45	3	Vertical	87	1.18	-	45.47	27.44	6.01	-
AV	2.4876G	35.20	54.00	-18.80	33.47	3	Vertical	87	1.18	-	1.73	27.40	6.07	-
PK	2.354G	57.47	74.00	-16.53	33.62	3	Vertical	87	1.18	-	23.85	27.69	5.93	-
PK	2.44G	101.42	Inf	-Inf	33.45	3	Vertical	87	1.18	-	67.97	27.44	6.01	-
PK	2.4876G	57.70	74.00	-16.30	33.47	3	Vertical	87	1.18	-	24.23	27.40	6.07	-

BT-EDR(3Mbps)

09/09/2020

2440MHz_TX

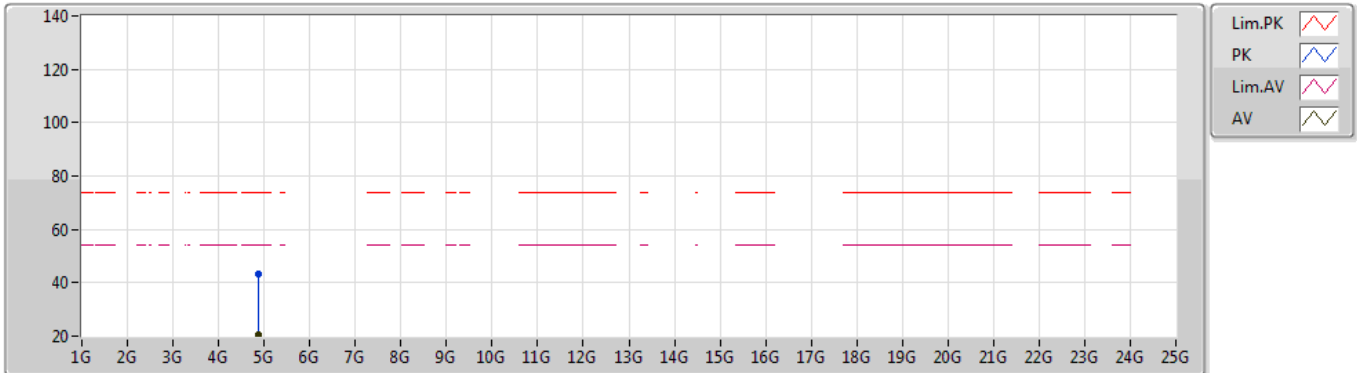


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3616G	35.45	54.00	-18.55	33.61	3	Horizontal	325	3.00	-	1.84	27.68	5.93	-
AV	2.44G	84.05	Inf	-Inf	33.45	3	Horizontal	325	3.00	-	50.60	27.44	6.01	-
AV	2.4884G	35.28	54.00	-18.72	33.47	3	Horizontal	325	3.00	-	1.81	27.40	6.07	-
PK	2.3616G	57.95	74.00	-16.05	33.61	3	Horizontal	325	3.00	-	24.34	27.68	5.93	-
PK	2.44G	106.55	Inf	-Inf	33.45	3	Horizontal	325	3.00	-	73.10	27.44	6.01	-
PK	2.4884G	57.78	74.00	-16.22	33.47	3	Horizontal	325	3.00	-	24.31	27.40	6.07	-

BT-EDR(3Mbps)

09/09/2020

2440MHz_TX

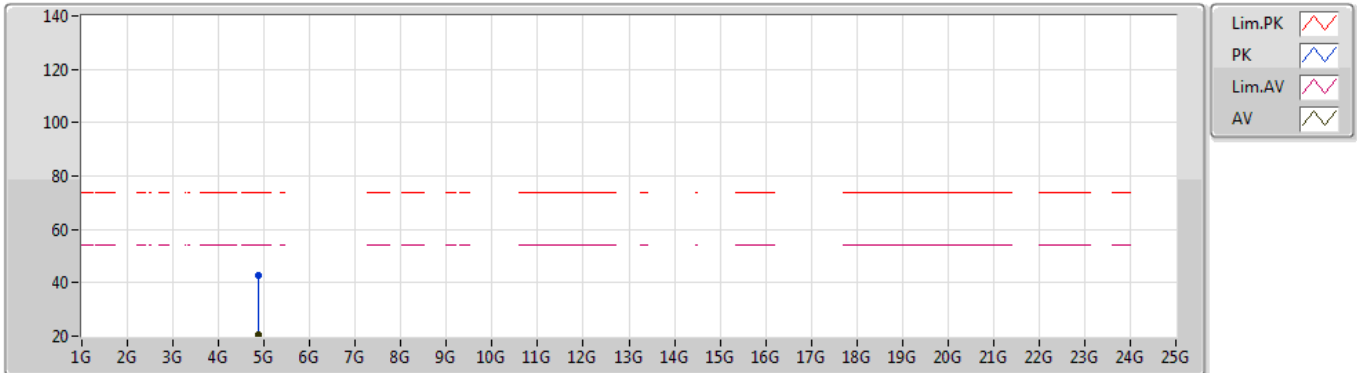


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88146G	20.59	54.00	-33.41	5.47	3	Vertical	132	1.48	-	15.12	31.04	8.30	33.87
PK	4.87776G	43.09	74.00	-30.91	5.47	3	Vertical	132	1.48	-	37.62	31.04	8.30	33.87

BT-EDR(3Mbps)

09/09/2020

2440MHz_TX

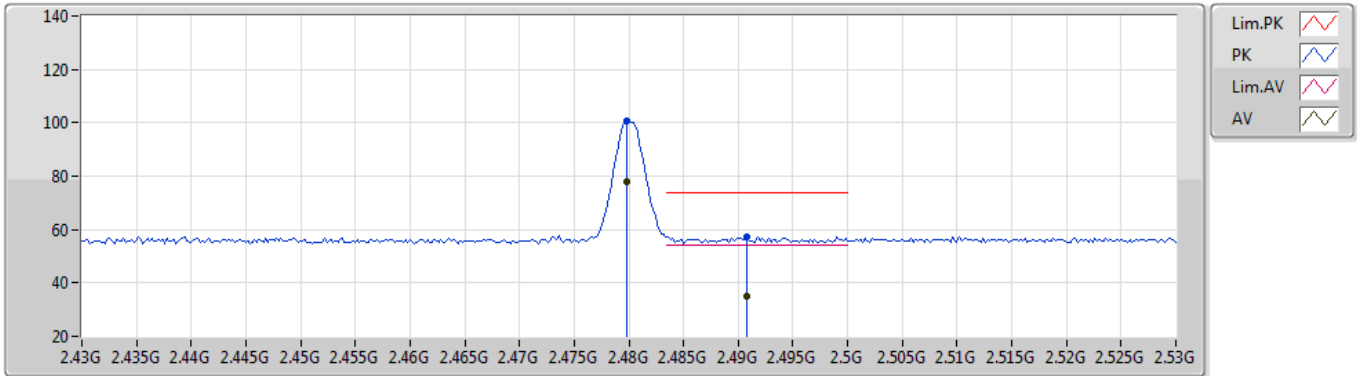


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88221G	20.47	54.00	-33.53	5.47	3	Horizontal	3	1.56	-	15.00	31.04	8.30	33.87
PK	4.88221G	42.97	74.00	-31.03	5.47	3	Horizontal	3	1.56	-	37.50	31.04	8.30	33.87

BT-EDR(3Mbps)

09/09/2020

2480MHz_TX

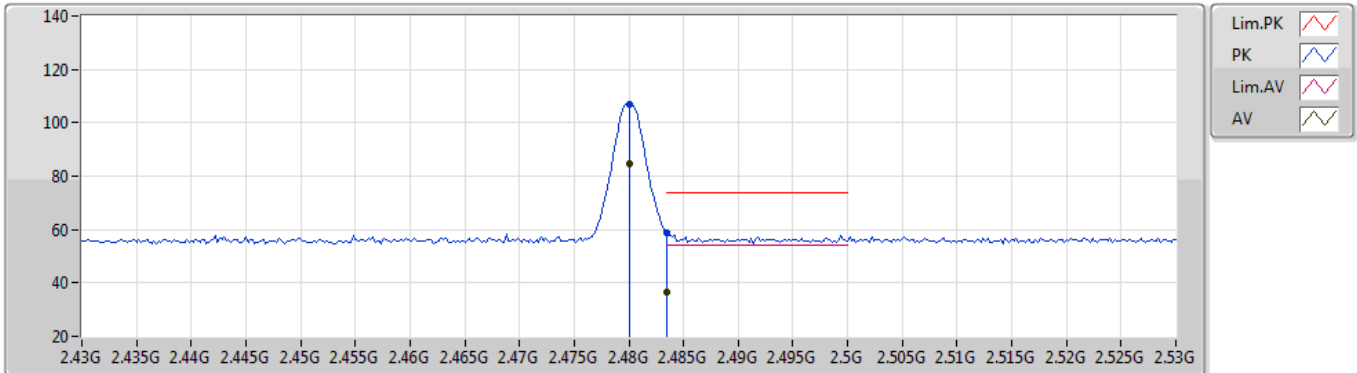


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	77.98	Inf	-Inf	33.46	3	Vertical	71	1.00	-	44.52	27.40	6.06	-
AV	2.4908G	34.84	54.00	-19.16	33.47	3	Vertical	71	1.00	-	1.37	27.40	6.07	-
PK	2.4798G	100.48	Inf	-Inf	33.46	3	Vertical	71	1.00	-	67.02	27.40	6.06	-
PK	2.4908G	57.34	74.00	-16.66	33.47	3	Vertical	71	1.00	-	23.87	27.40	6.07	-

BT-EDR(3Mbps)

09/09/2020

2480MHz_TX

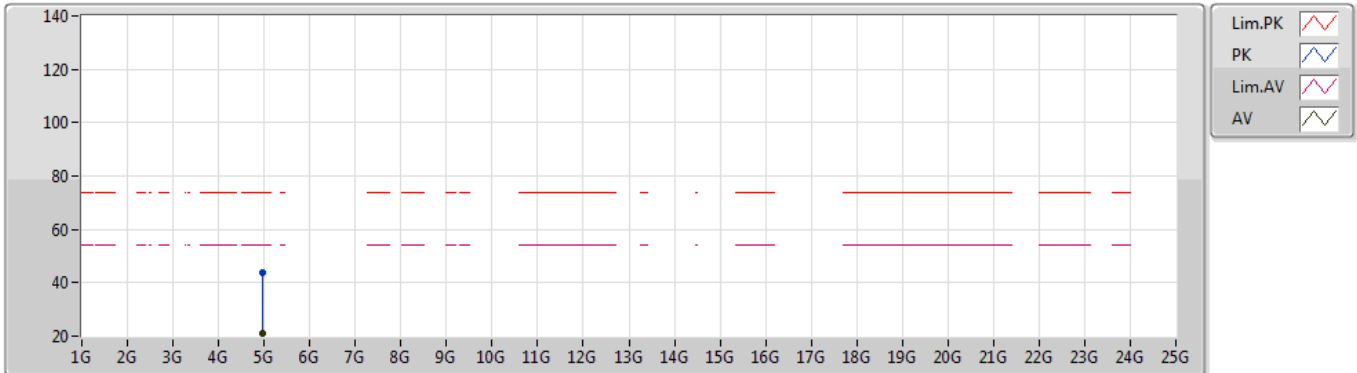


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	84.40	Inf	-Inf	33.46	3	Horizontal	321	2.86	-	50.94	27.40	6.06	-
AV	2.4835G	36.35	54.00	-17.65	33.46	3	Horizontal	321	2.86	-	2.89	27.40	6.06	-
PK	2.48G	106.90	Inf	-Inf	33.46	3	Horizontal	321	2.86	-	73.44	27.40	6.06	-
PK	2.4835G	58.85	74.00	-15.15	33.46	3	Horizontal	321	2.86	-	25.39	27.40	6.06	-

BT-EDR(3Mbps)

09/09/2020

2480MHz_TX

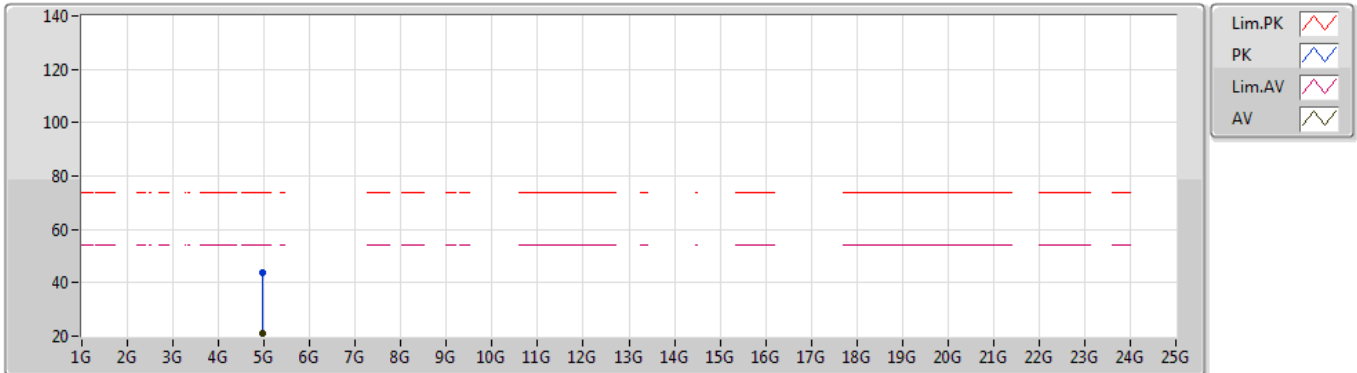


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9576G	21.08	54.00	-32.92	5.75	3	Vertical	276	1.49	-	15.33	31.22	8.35	33.82
PK	4.9576G	43.58	74.00	-30.42	5.75	3	Vertical	276	1.49	-	37.83	31.22	8.35	33.82

BT-EDR(3Mbps)

09/09/2020

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	4.95976G	21.19	54.00	-32.81	5.75	3	Horizontal	125	1.85	-	15.44	31.22	8.35	33.82
PK	4.95976G	43.69	74.00	-30.31	5.75	3	Horizontal	125	1.85	-	37.94	31.22	8.35	33.82



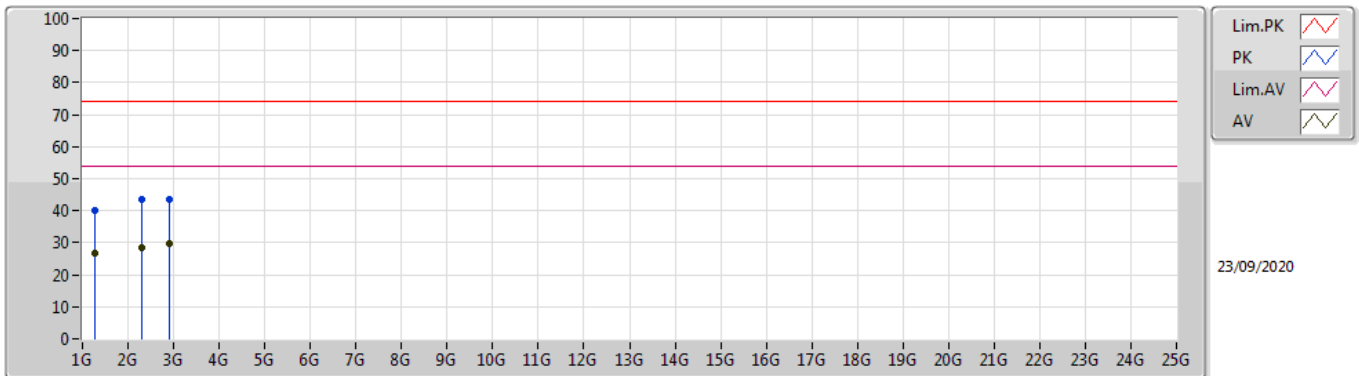
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	2.892G	29.73	54.00	-24.27	Vertical

Mode Configure

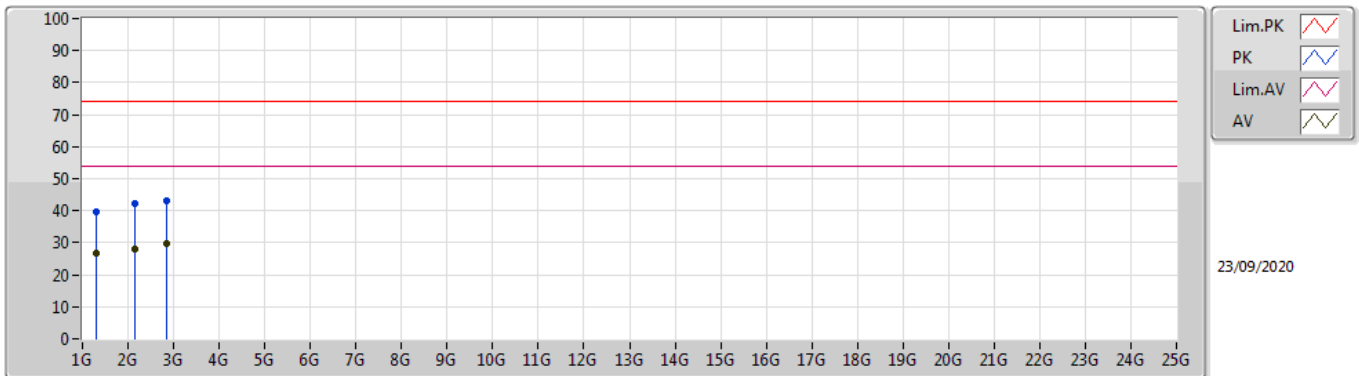
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	1.276G	26.69	54.00	-27.31	3	Vertical	270	1.47	-
Mode 1	Pass	AV	2.292G	28.64	54.00	-25.36	3	Vertical	242	1.68	-
Mode 1	Pass	AV	2.892G	29.73	54.00	-24.27	3	Vertical	187	1.24	-
Mode 1	Pass	PK	1.276G	39.92	74.00	-34.08	3	Vertical	270	1.47	-
Mode 1	Pass	PK	2.292G	43.35	74.00	-30.65	3	Vertical	242	1.68	-
Mode 1	Pass	PK	2.892G	43.63	74.00	-30.37	3	Vertical	187	1.24	-
Mode 1	Pass	AV	1.308G	26.52	54.00	-27.48	3	Horizontal	134	1.75	-
Mode 1	Pass	AV	2.152G	28.15	54.00	-25.85	3	Horizontal	302	1.60	-
Mode 1	Pass	AV	2.848G	29.73	54.00	-24.27	3	Horizontal	254	1.07	-
Mode 1	Pass	PK	1.308G	39.86	74.00	-34.14	3	Horizontal	134	1.75	-
Mode 1	Pass	PK	2.152G	42.14	74.00	-31.86	3	Horizontal	302	1.60	-
Mode 1	Pass	PK	2.848G	43.26	74.00	-30.74	3	Horizontal	254	1.07	-

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.276G	26.69	54.00	-27.31	-4.42	3	Vertical	270	1.47	-	31.11	25.60	4.49	34.51
AV	2.292G	28.64	54.00	-25.36	-0.48	3	Vertical	242	1.68	-	29.12	27.92	5.88	34.28
AV	2.892G	29.73	54.00	-24.27	0.65	3	Vertical	187	1.24	-	29.08	28.37	6.48	34.20
PK	1.276G	39.92	74.00	-34.08	-4.42	3	Vertical	270	1.47	-	44.34	25.60	4.49	34.51
PK	2.292G	43.35	74.00	-30.65	-0.48	3	Vertical	242	1.68	-	43.83	27.92	5.88	34.28
PK	2.892G	43.63	74.00	-30.37	0.65	3	Vertical	187	1.24	-	42.98	28.37	6.48	34.20

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.308G	26.52	54.00	-27.48	-4.17	3	Horizontal	134	1.75	-	30.69	25.75	4.54	34.46
AV	2.152G	28.15	54.00	-25.85	-0.87	3	Horizontal	302	1.60	-	29.02	27.61	5.75	34.23
AV	2.848G	29.73	54.00	-24.27	0.42	3	Horizontal	254	1.07	-	29.31	28.20	6.44	34.22
PK	1.308G	39.86	74.00	-34.14	-4.17	3	Horizontal	134	1.75	-	44.03	25.75	4.54	34.46
PK	2.152G	42.14	74.00	-31.86	-0.87	3	Horizontal	302	1.60	-	43.01	27.61	5.75	34.23
PK	2.848G	43.26	74.00	-30.74	0.42	3	Horizontal	254	1.07	-	42.84	28.20	6.44	34.22