FCC Test Report

FCC ID	:	**H8NGRYPHONAX**
Equipment	:	**WIFI Tri-band Mesh**
Brand Name	:	**Gryphon**
Model Name	:	**GRYPHON AX**
Applicant	:	**ASKEY COMPUTER CORPORATION 10F, No. 119, Jiankang Road, Zhonghe Dist., New Taipei City, Taiwan**
Manufacturer	:	**ASKEY COMPUTER CORPORATION 10F, No. 119, Jiankang Road, Zhonghe Dist., New Taipei City, Taiwan**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Sep. 07, 2020, and testing was started from Sep. 07, 2020 and completed on Oct. 13, 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.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR091021AD	01	Initial issue of report	Jan. 11, 2021

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: Debby Hung

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 π/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
1-7	Askey	AP5660W	PCB antenna	I-PEX

<Non-Beamforming>

Ant.	Gain (dBi)							
	2.4G			5G		BT		
	2400	2450	2500	U-NII-1	U-NII-3	2400	2450	2500
1-2	4.13	4.05	3.94	3.46	4.11	-	-	-
3-6	-	-	-	3.46	4.11	-	-	-
7	-	-	-	-	-	3.25	3.40	2.52

<Beamforming>

Ant.	Gain (dBi)				
	2.4G			5G	
	2400	2450	2500	U-NII-1	U-NII-3
1-2	3.36	4.46	4.85	6.05	4.79
3-6	-	-	-	6.05	4.79

Note 1: The EUT has seven antennas.

For 2.4GHz function:

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

Ant. 1 and Ant. 2 could transmit/receive simultaneously.

For BT function:

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

Ant. 7 could transmit/receive.

For 5GHz function:

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

Ant. 1 and Ant. 2 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax mode (4TX/4RX)

Ant. 1, Ant. 2 , Ant. 3 and Ant. 4 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point

Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	…
☐	Other:	

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-BR(1Mbps)	0.782	1.07	2.905m	1k
BT-EDR(2Mbps)	0.752	1.24	2.916m	1k
BT-EDR(3Mbps)	0.791	1.02	2.914m	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			
☒	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.			
☐	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.			
☒	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	24.6~24.9°C / 54~60%	13/Oct/2020
RF Conducted	TH06-HY	Alan	20.1~26.9°C / 50~60%	09/Sep/2020~16/Sep/2020
Radiated	03CH09-HY	Lego	23.2~25.1°C / 56~60%	07/Sep/2020~17/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	QRCT3

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	8
2440MHz	8
2480MHz	8
BT-EDR(2Mbps)	-
2402MHz	8
2440MHz	8
2480MHz	8
BT-EDR(3Mbps)	-
2402MHz	8
2440MHz	8
2480MHz	8

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 ☒ Non-adaptive frequency hopping systems (Non-AFH) ☒ adaptive frequency hopping systems (AFH)
Non-AFH Mode configuration was found to be the worst case and measured during the test.	

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

2.4 Accessories

Accessories				
AC Adapter 1 (US Plug)	**Brand Name**	FLYPOWER	**Model Name**	PS24L120K2000UD
	Power Rating	I/P:100 - 240Vac, 0.8A, O/P: 12.0 Vdc, 2.0A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
AC Adapter 2 (US Plug)	**Brand Name**	APD	**Model Name**	WB-24J12FU
	Power Rating	I/P: 100 - 240Vac, 0.7A, O/P: 12Vdc, 2 A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		

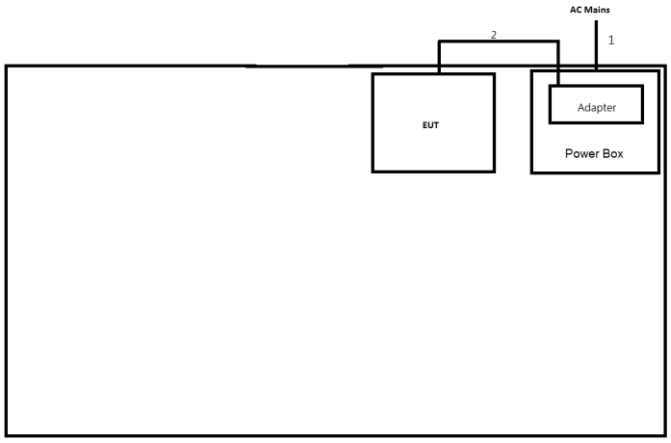
Reminder: Regarding to more detail and other information, please refer to user manual.

2.5 Support Equipment

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

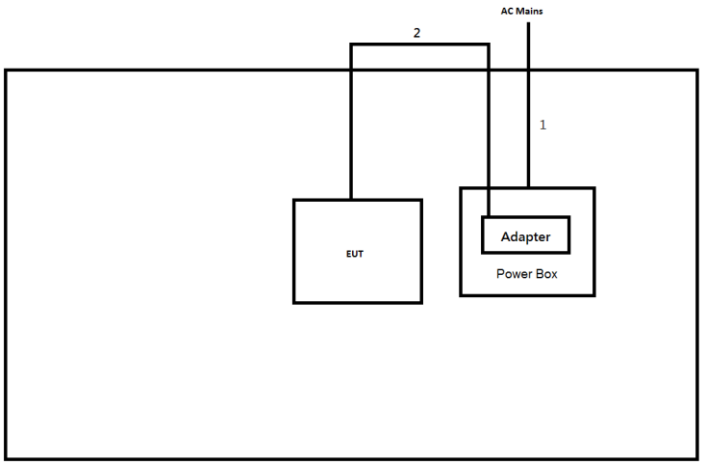
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



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

Test Setup Diagram - Radiated Test



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

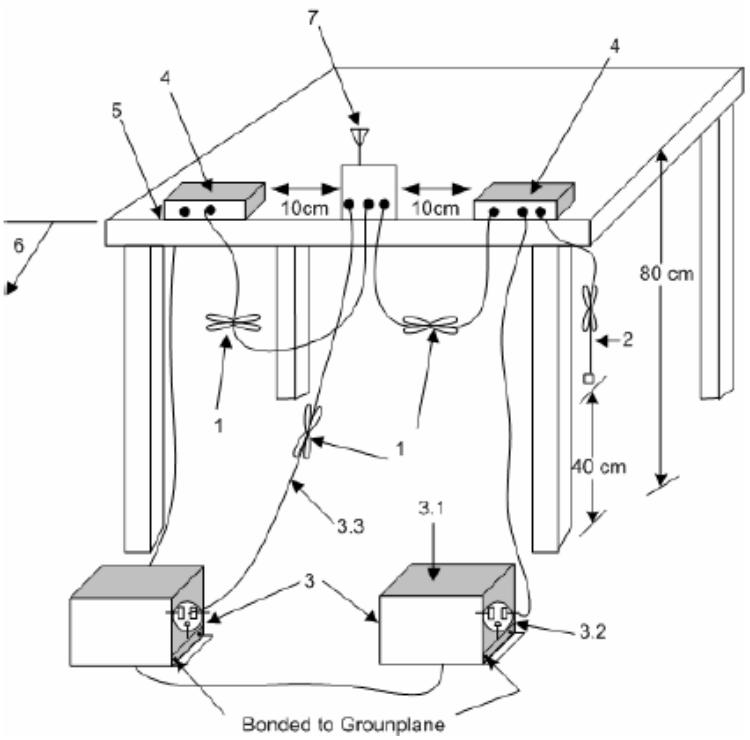
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) +LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 2400-2483.5 MHz Band:	
	▪ N ≥75 and ChS ≥ MAX (20 dB bandwidth, 25 kHz).
	▪ 75>N ≥ 15 and ChS ≥ MAX (20 dB bandwidth 2/3,25 kHz).
N:Number of Hopping Frequencies; **ChS**: Hopping Channel Separation	

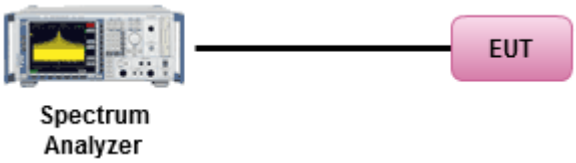
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup

20dB Bandwidth and Carrier Frequency Separation


3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
▪ 2400-2483.5 MHz Band:	
	▪ N ≥ 75; Power 30dBm; EIRP 36dBm
	▪ 75 >N ≥ 15; Power 21dBm; EIRP 27dBm
N:Number of Hopping Frequencies	

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.

3.3.4 Test Setup

Maximum Conducted Output Power (Peak Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

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

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

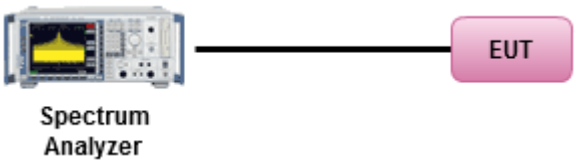
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.

3.4.5 Test Setup

Number of Hopping Frequencies and Hopping Frequencies Bandedge


3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
▪ 2400-2483.5 MHz Band:	
	▪ N ≥ 75; 0.4s in N x 0.4 period
	▪ 75 >N ≥ 15; 0.4s in N x 0.4 period
N:Number of Hopping Frequencies	

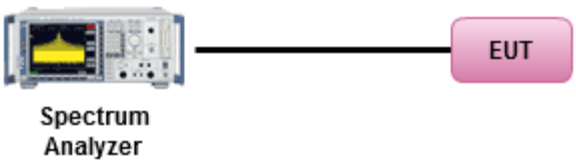
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
▪ Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.	
▪ Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle.	
	▪ The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is 5/1600 seconds, or 3.125ms.DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel.

3.5.4 Test Setup

Time of Occupancy (Dwell Time)
 Spectrum Analyzer

3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

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

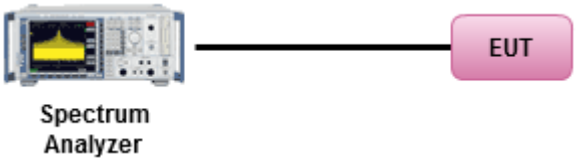
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.

3.6.4 Test Setup

Emissions in Non-restricted Frequency Bands


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 below30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.7.2 Measuring Instruments

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

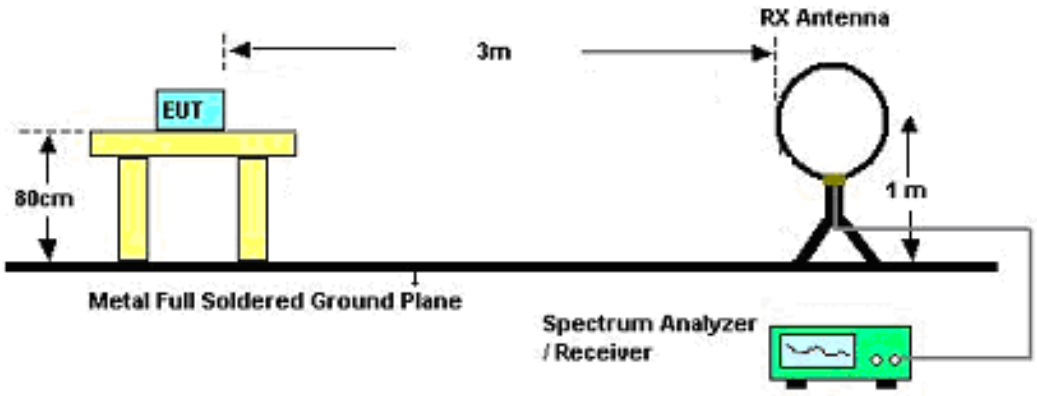
3.7.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [hopping duty factor].	
▪ Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.
▪	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	▪ Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

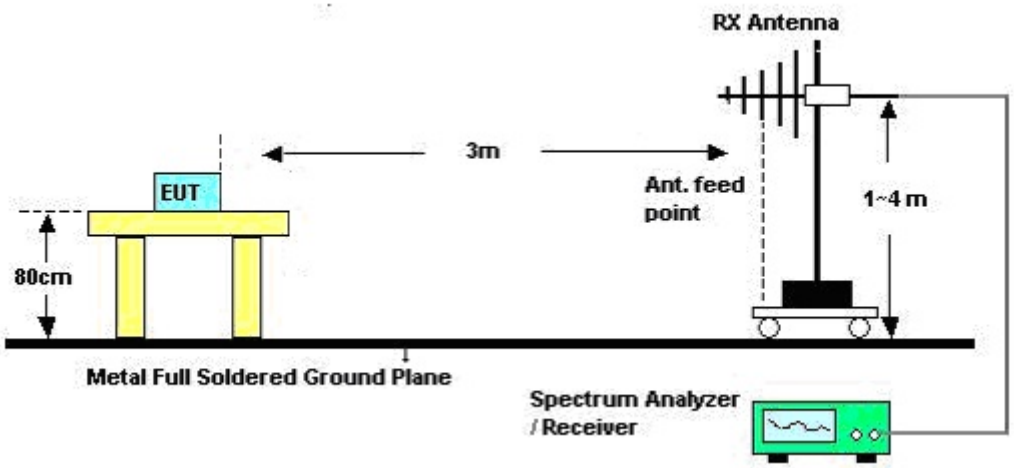
3.7.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

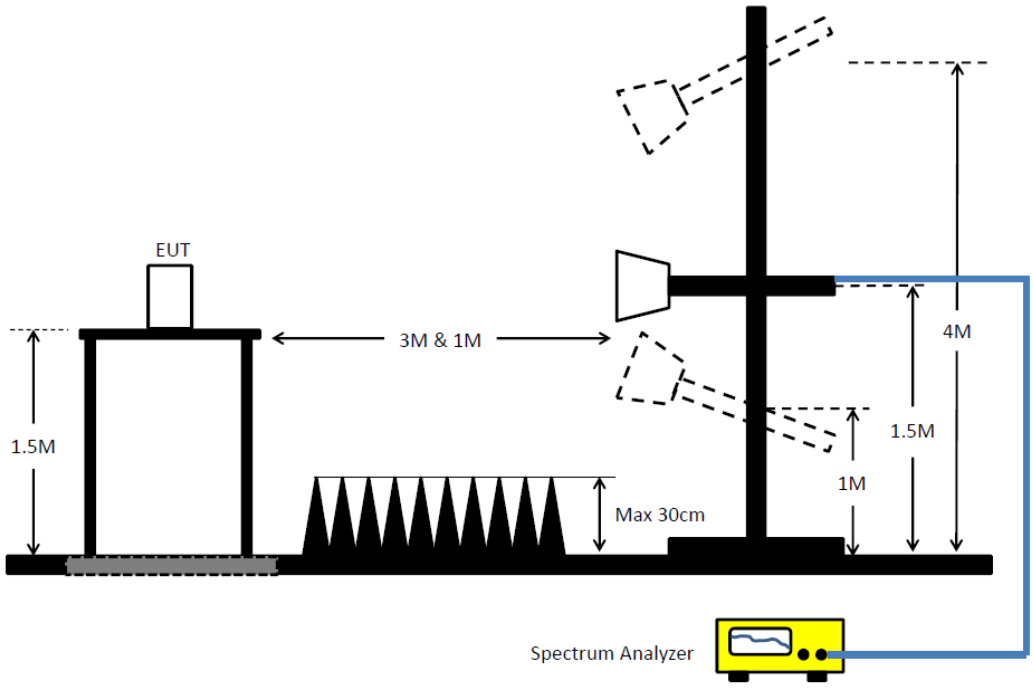
3.7.5 Test Setup

Emissions in Restricted Frequency Bands
9kHz ~30MHz


30MHz~1GHz



Above 1GHz



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 Puls e Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

NCR: Non-Calibration Require

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	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	27/Mar/2020	26/Mar/2021
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	19/Mar/2020	18/Mar/2021
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	17/Aug/2020	16/Aug/2021
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	14/Apr/2020	13/Apr/2021
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	24/Jul/2020	23/Jul/2021
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MTJ 6102-05	35418 & 3	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	28/May/2020	27/May/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	03/Sep/2020	02/Sep/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	12/Feb/2020	11/Feb/2021
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	SN MY25918/4+ SN MY39478/4 + SN 324530/4	1GHz~40GHz	15/Aug/2020	14/Aug/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35-HG	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

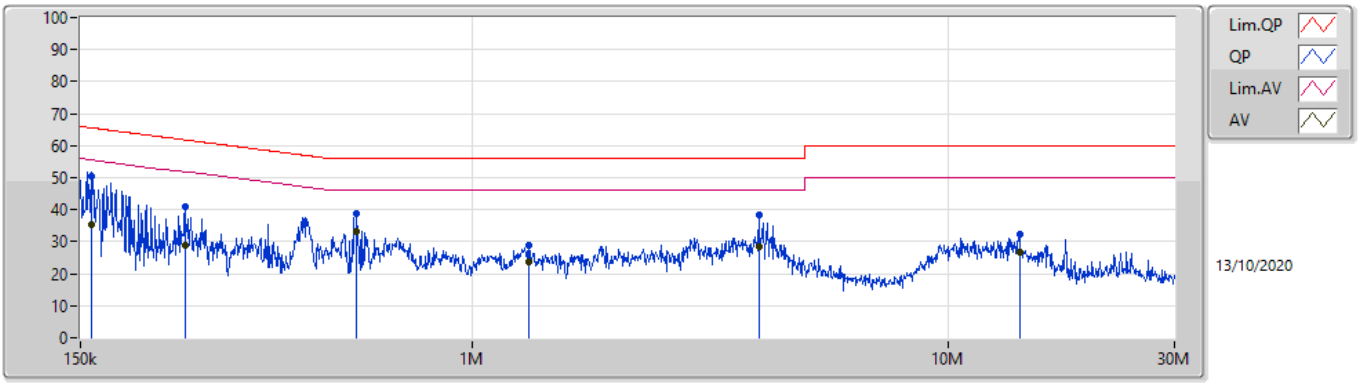
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	569.051k	32.99	46.00	-13.01	Line

Mode Configure

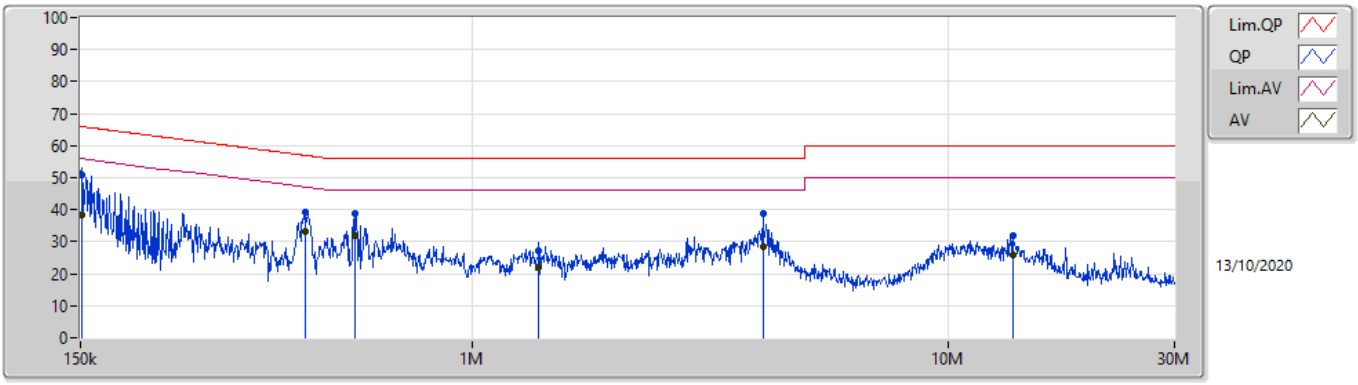
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	157.99k	50.25	65.56	-15.31	Line	-
Mode 1	Pass	AV	157.99k	35.45	55.56	-20.11	Line	-
Mode 1	Pass	QP	249.042k	40.91	61.79	-20.88	Line	-
Mode 1	Pass	AV	249.042k	28.93	51.79	-22.86	Line	-
Mode 1	Pass	QP	569.051k	38.79	56.00	-17.21	Line	-
Mode 1	Pass	AV	569.051k	32.99	46.00	-13.01	Line	"Worst"
Mode 1	Pass	QP	1.316M	28.83	56.00	-27.17	Line	-
Mode 1	Pass	AV	1.316M	23.56	46.00	-22.44	Line	-
Mode 1	Pass	QP	4.008M	38.30	56.00	-17.70	Line	-
Mode 1	Pass	AV	4.008M	28.41	46.00	-17.59	Line	-
Mode 1	Pass	QP	14.151M	32.15	60.00	-27.85	Line	-
Mode 1	Pass	AV	14.151M	26.55	50.00	-23.45	Line	-
Mode 1	Pass	QP	151.202k	50.94	65.92	-14.98	Neutral	-
Mode 1	Pass	AV	151.202k	38.16	55.92	-17.76	Neutral	-
Mode 1	Pass	QP	444.284k	39.13	56.98	-17.85	Neutral	-
Mode 1	Pass	AV	444.284k	33.36	46.98	-13.62	Neutral	"Worst"
Mode 1	Pass	QP	566.784k	38.75	56.00	-17.25	Neutral	-
Mode 1	Pass	AV	566.784k	31.97	46.00	-14.03	Neutral	-
Mode 1	Pass	QP	1.38M	27.09	56.00	-28.91	Neutral	-
Mode 1	Pass	AV	1.38M	21.83	46.00	-24.17	Neutral	-
Mode 1	Pass	QP	4.089M	38.69	56.00	-17.31	Neutral	-
Mode 1	Pass	AV	4.089M	28.31	46.00	-17.69	Neutral	-
Mode 1	Pass	QP	13.706M	31.90	60.00	-28.10	Neutral	-
Mode 1	Pass	AV	13.706M	25.89	50.00	-24.11	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	157.99k	50.25	65.56	-15.31	19.57	Line	-	30.68	9.66	0.01	9.90
AV	157.99k	35.45	55.56	-20.11	19.57	Line	-	15.88	9.66	0.01	9.90
QP	249.042k	40.91	61.79	-20.88	19.56	Line	-	21.35	9.65	0.01	9.90
AV	249.042k	28.93	51.79	-22.86	19.56	Line	-	9.37	9.65	0.01	9.90
QP	569.051k	38.79	56.00	-17.21	19.53	Line	-	19.26	9.64	0.03	9.86
AV	569.051k	32.99	46.00	-13.01	19.53	Line	"Worst"	13.46	9.64	0.03	9.86
QP	1.316M	28.83	56.00	-27.17	19.50	Line	-	9.33	9.64	0.06	9.80
AV	1.316M	23.56	46.00	-22.44	19.50	Line	-	4.06	9.64	0.06	9.80
QP	4.008M	38.30	56.00	-17.70	19.68	Line	-	18.62	9.66	0.12	9.90
AV	4.008M	28.41	46.00	-17.59	19.68	Line	-	8.73	9.66	0.12	9.90
QP	14.151M	32.15	60.00	-27.85	19.80	Line	-	12.35	9.66	0.24	9.90
AV	14.151M	26.55	50.00	-23.45	19.80	Line	-	6.75	9.66	0.24	9.90

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	151.202k	50.94	65.92	-14.98	19.56	Neutral	-	31.38	9.65	0.01	9.90
AV	151.202k	38.16	55.92	-17.76	19.56	Neutral	-	18.60	9.65	0.01	9.90
QP	444.284k	39.13	56.98	-17.85	19.54	Neutral	-	19.59	9.63	0.02	9.89
AV	444.284k	33.36	46.98	-13.62	19.54	Neutral	"Worst"	13.82	9.63	0.02	9.89
QP	566.784k	38.75	56.00	-17.25	19.52	Neutral	-	19.23	9.63	0.03	9.86
AV	566.784k	31.97	46.00	-14.03	19.52	Neutral	-	12.45	9.63	0.03	9.86
QP	1.38M	27.09	56.00	-28.91	19.50	Neutral	-	7.59	9.64	0.06	9.80
AV	1.38M	21.83	46.00	-24.17	19.50	Neutral	-	2.33	9.64	0.06	9.80
QP	4.089M	38.69	56.00	-17.31	19.68	Neutral	-	19.01	9.66	0.12	9.90
AV	4.089M	28.31	46.00	-17.69	19.68	Neutral	-	8.63	9.66	0.12	9.90
QP	13.706M	31.90	60.00	-28.10	19.85	Neutral	-	12.05	9.71	0.24	9.90
AV	13.706M	25.89	50.00	-24.11	19.85	Neutral	-	6.04	9.71	0.24	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)	936.25k	871.564k	872KF1D	933.75k	868.566k
BT-EDR(2Mbps)	1.339M	1.234M	1M23G1D	1.329M	1.198M
BT-EDR(3Mbps)	1.306M	1.227M	1M23G1D	1.289M	1.212M

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

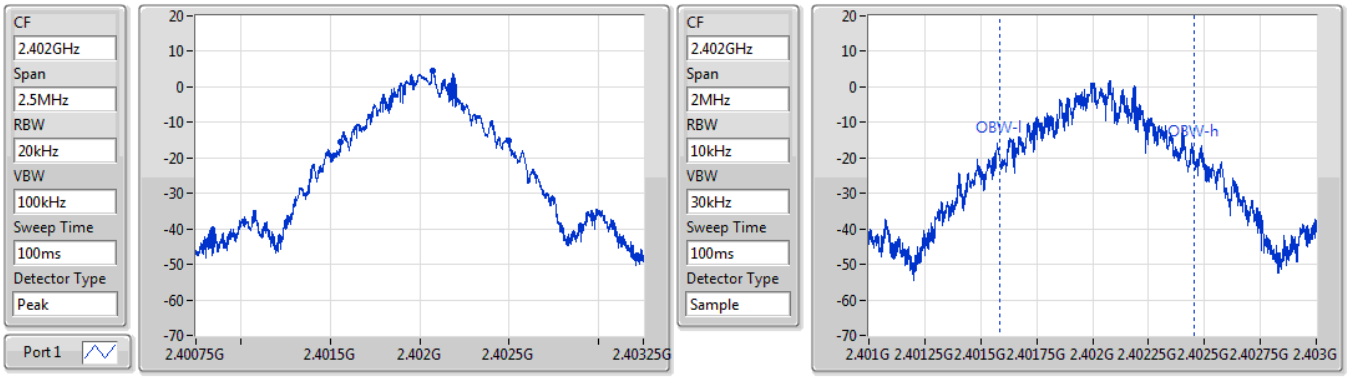
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	935k	870.565k
2440MHz_TnomVnom	Pass	Inf	933.75k	871.564k
2480MHz_TnomVnom	Pass	Inf	936.25k	868.566k
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.329M	1.198M
2440MHz_TnomVnom	Pass	Inf	1.339M	1.234M
2480MHz_TnomVnom	Pass	Inf	1.339M	1.225M
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.289M	1.212M
2440MHz_TnomVnom	Pass	Inf	1.305M	1.227M
2480MHz_TnomVnom	Pass	Inf	1.306M	1.222M

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

BT-BR(1Mbps) EBW-FS

2402MHz

16/09/2020

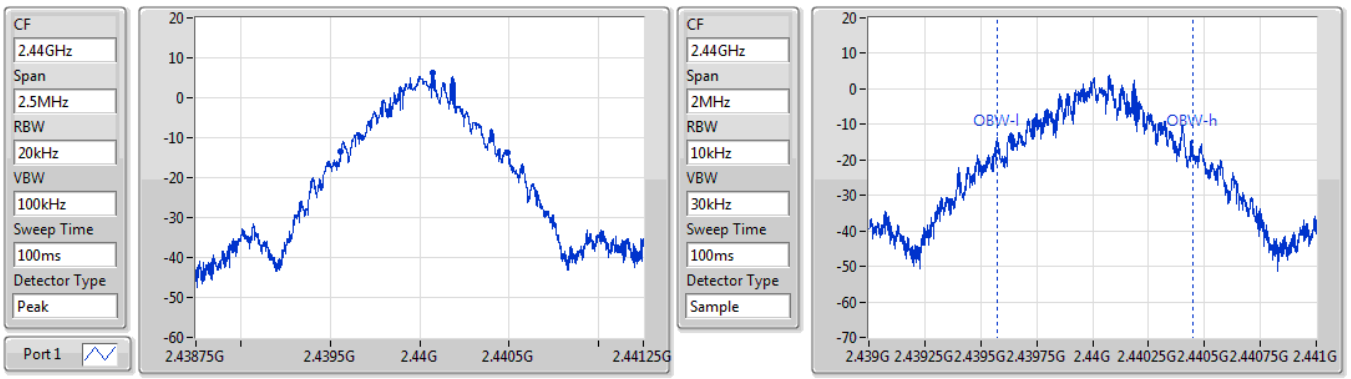


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
935k	2.401561G	2.402496G	870.565k	2.401582G	2.402453G	Inf	1

BT-BR(1Mbps) EBW-FS

2440MHz

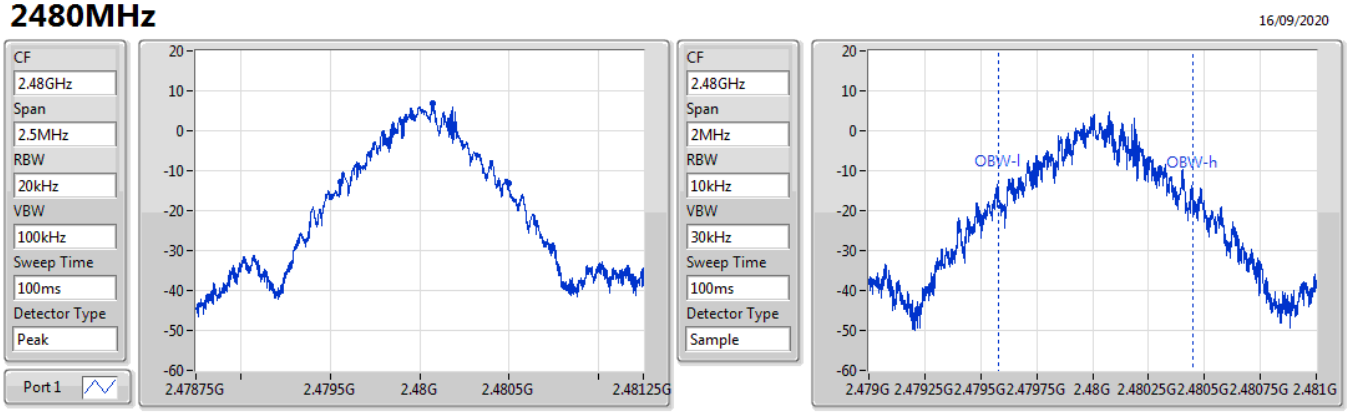
16/09/2020



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
933.75k	2.43956G	2.440494G	871.564k	2.439576G	2.440448G	Inf	1

BT-BR(1Mbps) EBW-FS

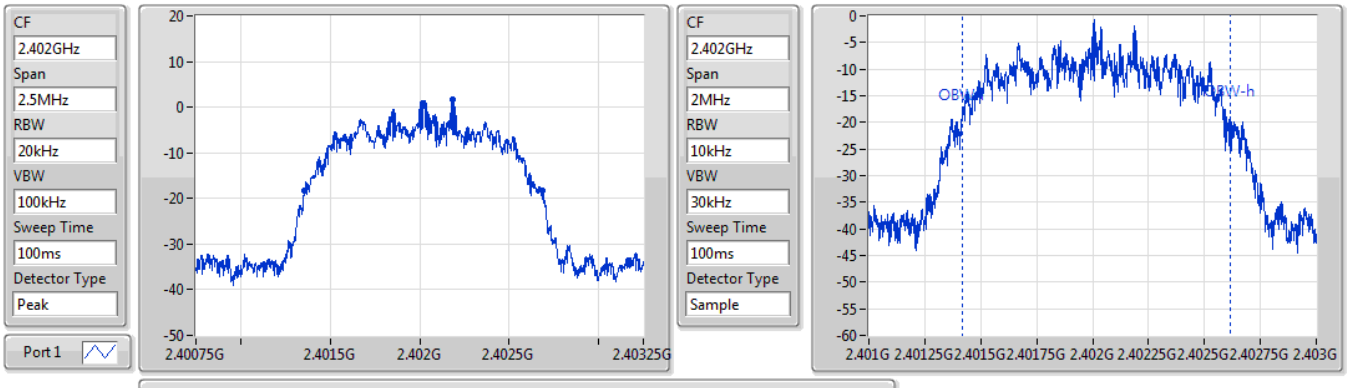
2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
936.25k	2.47956G	2.480496G	868.566k	2.479577G	2.480446G	Inf	1

BT-EDR(2Mbps) EBW-FS

2402MHz

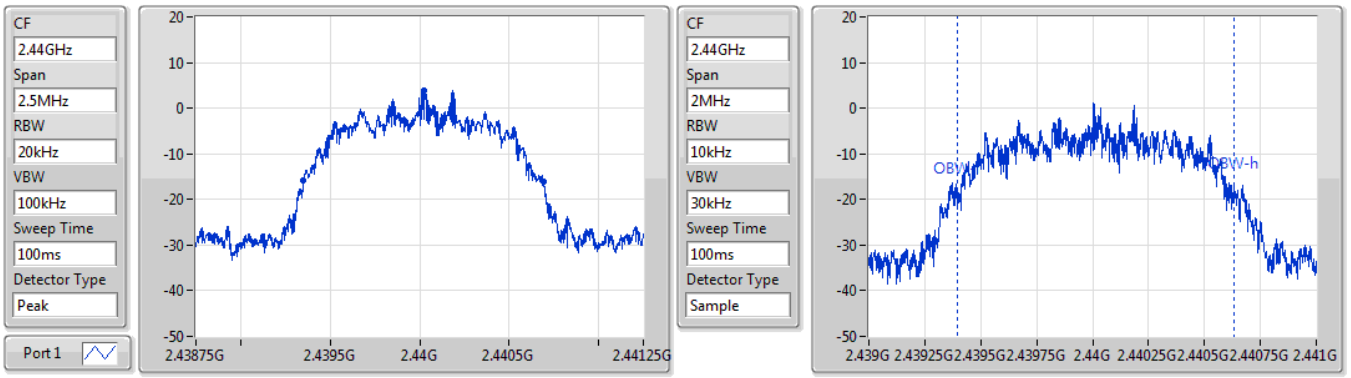


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.329M	2.401358G	2.402686G	1.198M	2.401417G	2.402616G	Inf	1

BT-EDR(2Mbps) **EBW-FS**

2440MHz

16/09/2020

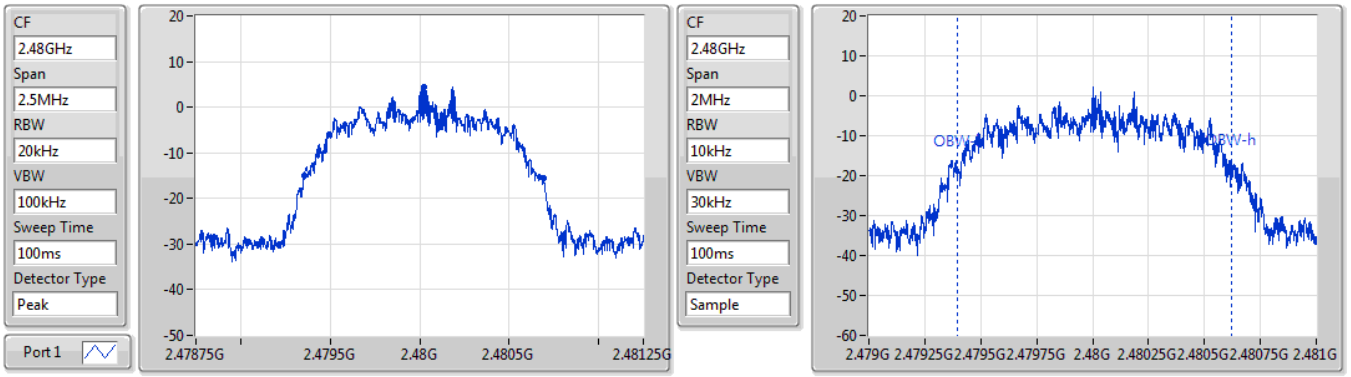


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.339M	2.439351G	2.44069G	1.234M	2.439396G	2.440631G	Inf	1

BT-EDR(2Mbps) **EBW-FS**

2480MHz

16/09/2020

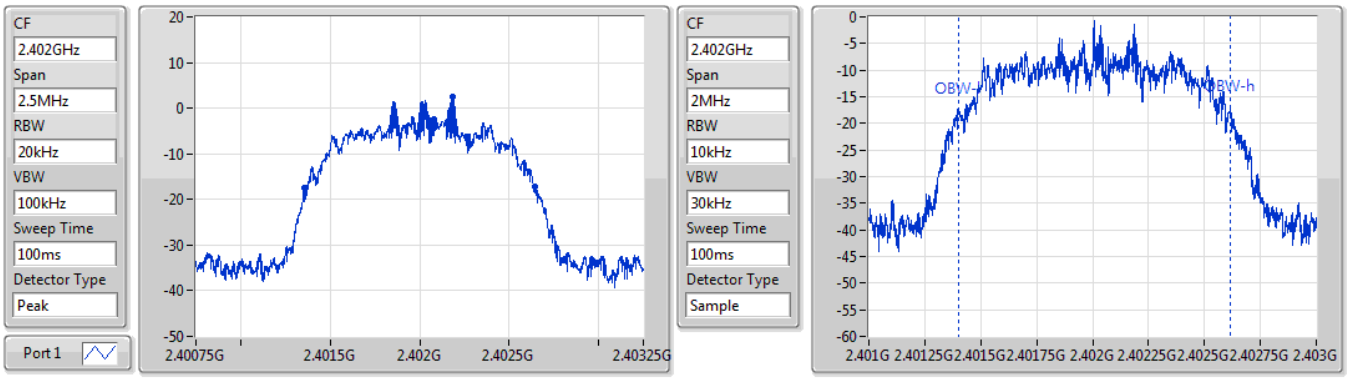


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.339M	2.479354G	2.480693G	1.225M	2.479396G	2.480622G	Inf	1

BT-EDR(3Mbps) EBW-FS

2402MHz

16/09/2020

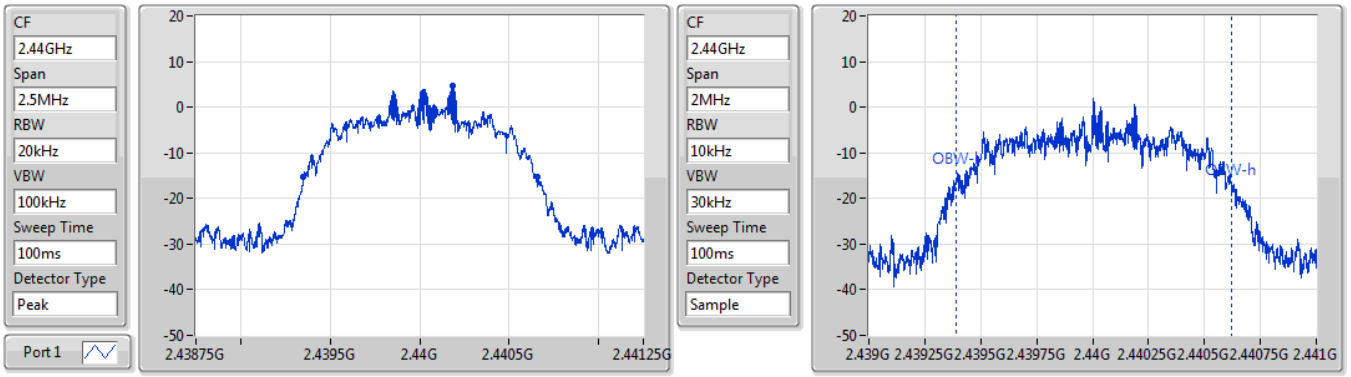


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.289M	2.401356G	2.402645G	1.212M	2.401401G	2.402614G	Inf	1

BT-EDR(3Mbps) EBW-FS

2440MHz

16/09/2020

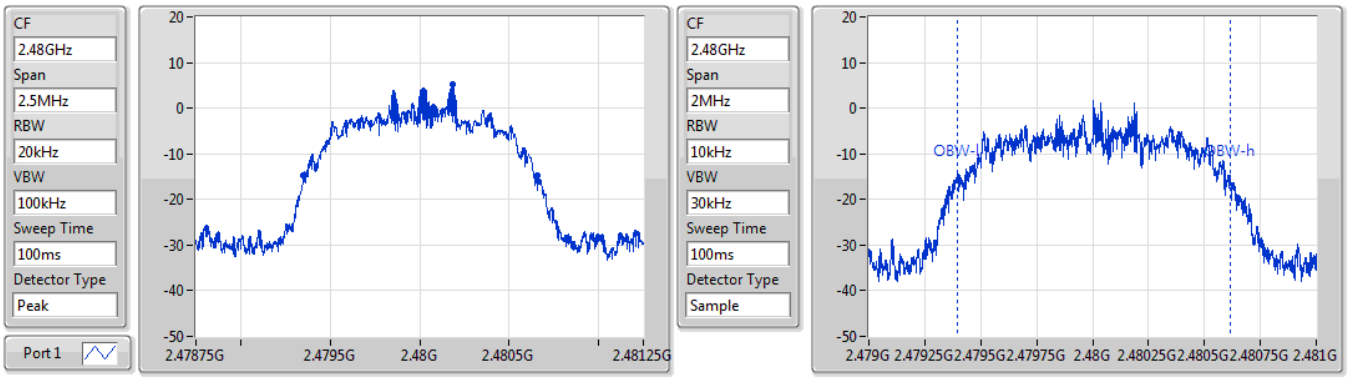


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.305M	2.43935G	2.440655G	1.227M	2.439392G	2.44062G	Inf	1

BT-EDR(3Mbps) **EBW-FS**

2480MHz

16/09/2020



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.306M	2.47935G	2.480656G	1.222M	2.479393G	2.480616G	Inf	1

Summary

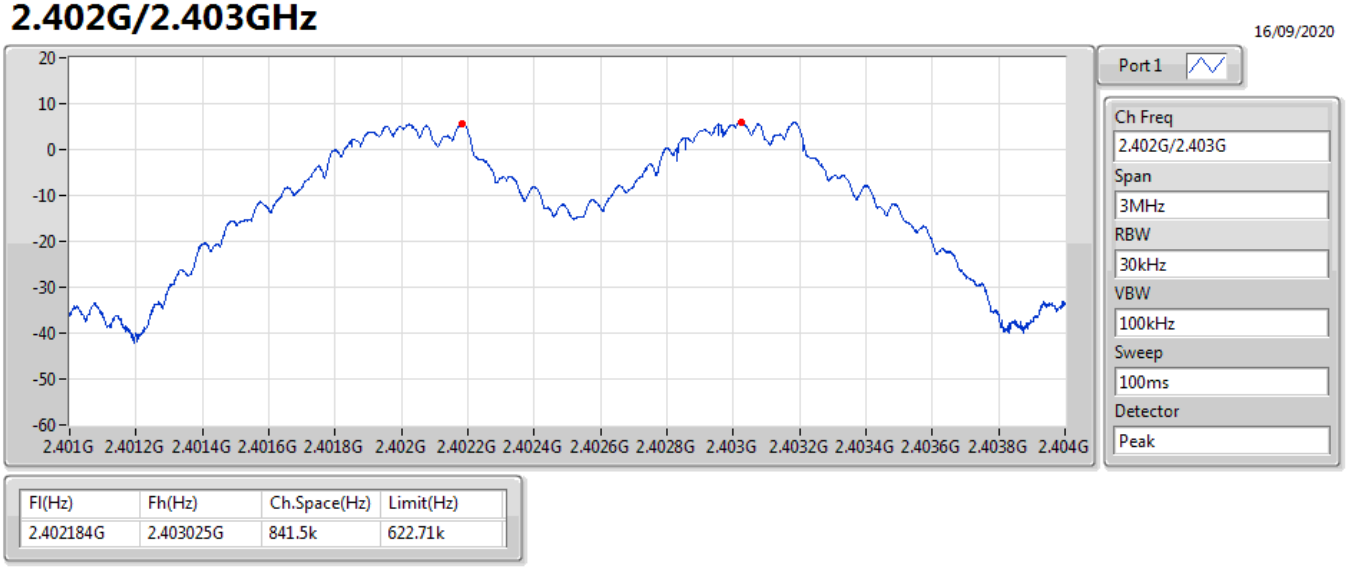
Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.1655M	841.5k
BT-EDR(2Mbps)	1.002M	1.0005M
BT-EDR(3Mbps)	1.002M	999k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402184G	2.403025G	841.5k	622.71k
2440MHz_TnomVnom	Pass	2.44002G	2.441024G	1.0035M	621.8775k
2480MHz_TnomVnom	Pass	2.478858G	2.480024G	1.1655M	623.5425k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402022G	2.403024G	1.002M	885.114k
2440MHz_TnomVnom	Pass	2.440022G	2.441022G	1.0005M	891.774k
2480MHz_TnomVnom	Pass	2.479022G	2.480022G	1.0005M	891.774k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402182G	2.403183G	1.0005M	858.474k
2440MHz_TnomVnom	Pass	2.440182G	2.441181G	999k	869.13k
2480MHz_TnomVnom	Pass	2.479181G	2.480183G	1.002M	869.796k

BT-BR(1Mbps) Channel Separation-FS

2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402184G	2.403025G	841.5k	622.71k

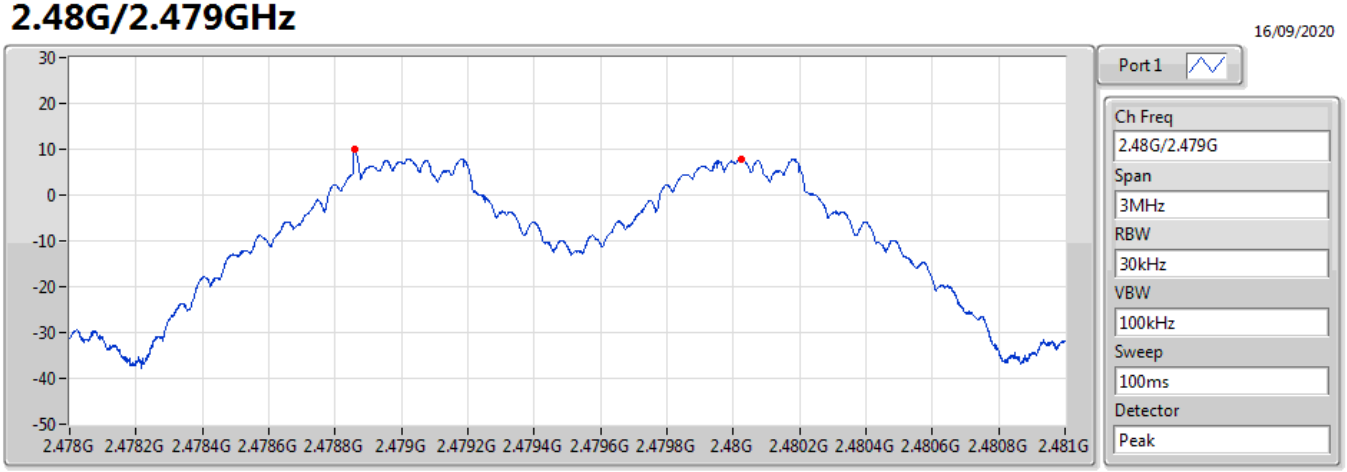
BT-BR(1Mbps) Channel Separation-FS

2.44G/2.441GHz

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.44002G	2.441024G	1.0035M	621.8775k

BT-BR(1Mbps) **Channel Separation-FS**

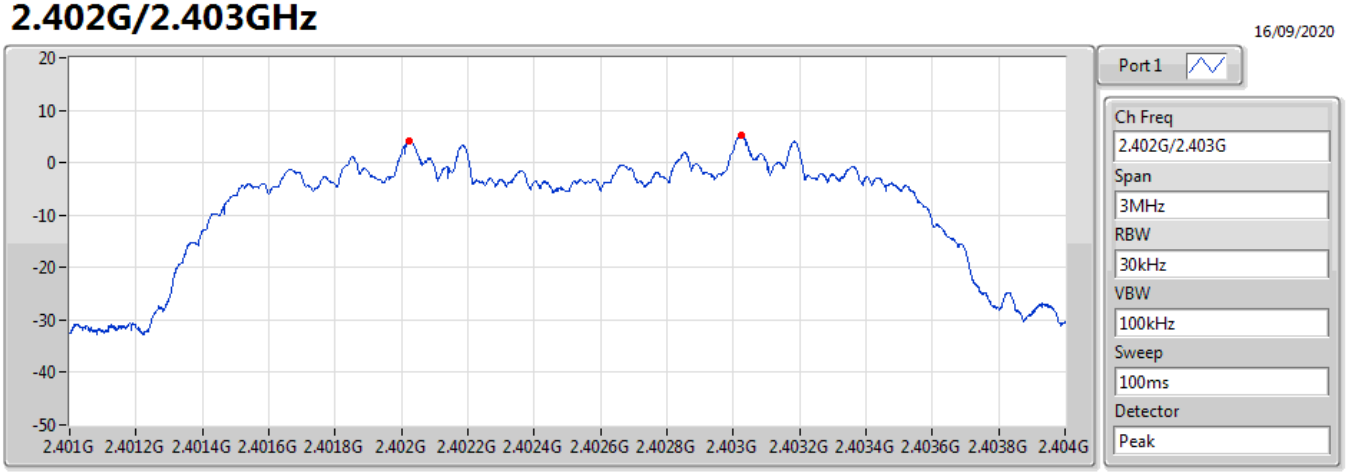
2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.478858G	2.480024G	1.1655M	623.5425k

BT-EDR(2Mbps) **Channel Separation-FS**

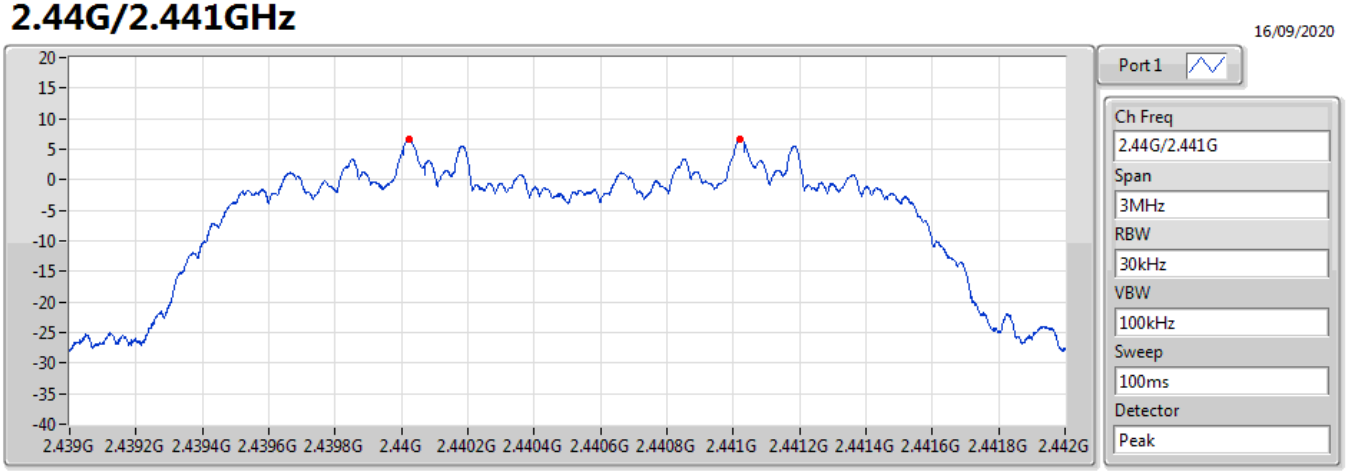
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402022G	2.403024G	1.002M	885.114k

BT-EDR(2Mbps) Channel Separation-FS

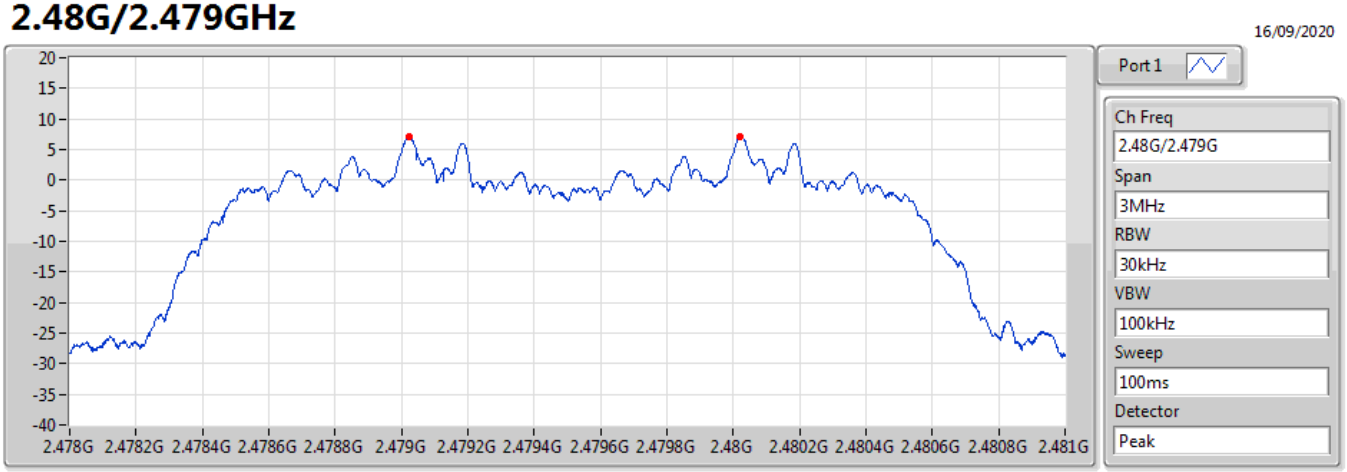
2.44G/2.441GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440022G	2.441022G	1.0005M	891.774k

BT-EDR(2Mbps) Channel Separation-FS

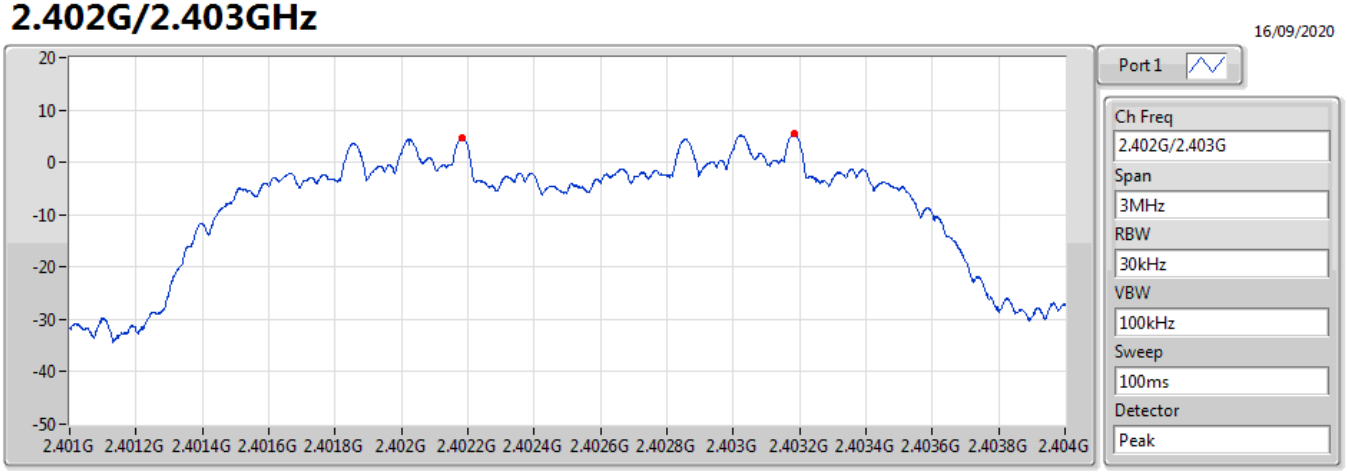
2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479022G	2.480022G	1.0005M	891.774k

BT-EDR(3Mbps) Channel Separation-FS

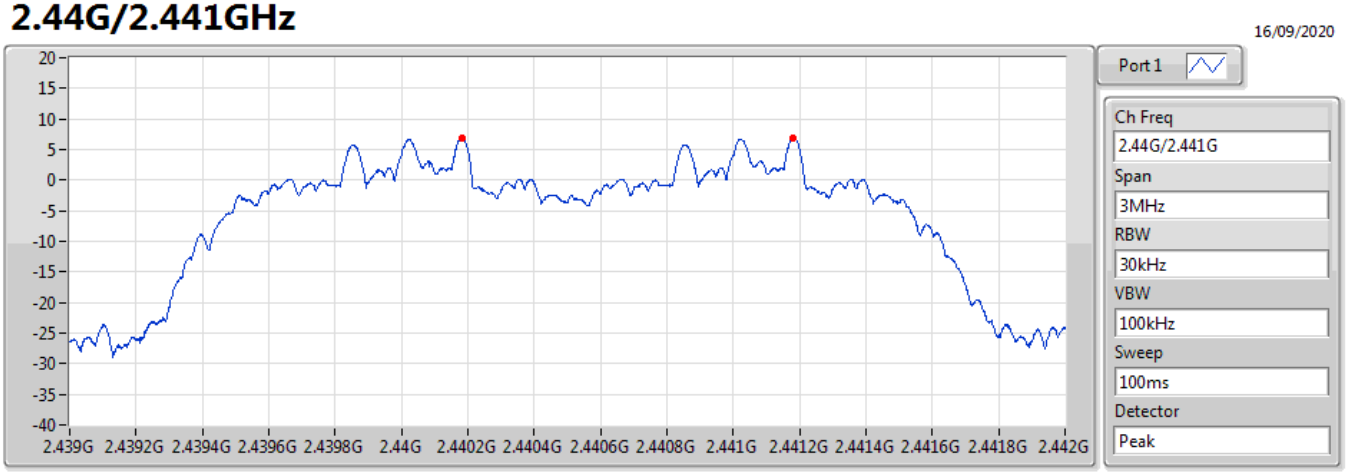
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402182G	2.403183G	1.0005M	858.474k

BT-EDR(3Mbps) Channel Separation-FS

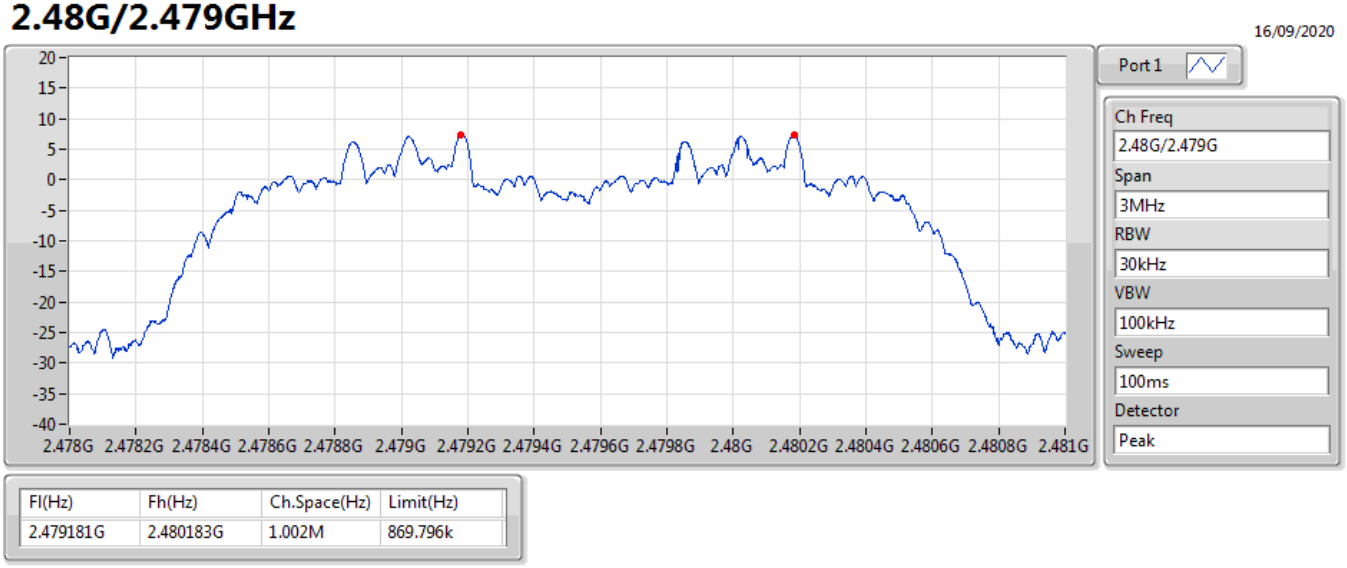
2.44G/2.441GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.440182G	2.441181G	999k	869.13k

BT-EDR(3Mbps) **Channel Separation-FS**

2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479181G	2.480183G	1.002M	869.796k

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	10.42	0.01102
BT-EDR(2Mbps)	9.87	0.00971
BT-EDR(3Mbps)	10.02	0.01005

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.25	8.08	21.00
2440MHz_TnomVnom	Pass	3.40	9.74	21.00
2480MHz_TnomVnom	Pass	2.52	10.42	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.25	7.36	21.00
2440MHz_TnomVnom	Pass	3.40	9.27	21.00
2480MHz_TnomVnom	Pass	2.52	9.87	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.25	7.66	21.00
2440MHz_TnomVnom	Pass	3.40	9.45	21.00
2480MHz_TnomVnom	Pass	2.52	10.02	21.00

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

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	10.42	0.01102
BT-EDR(2Mbps)	8.39	0.00690
BT-EDR(3Mbps)	8.41	0.00693

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.25	8.04	21.00
2440MHz_TnomVnom	Pass	3.40	9.66	21.00
2480MHz_TnomVnom	Pass	2.52	10.42	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.25	5.56	21.00
2440MHz_TnomVnom	Pass	3.40	7.88	21.00
2480MHz_TnomVnom	Pass	2.52	8.39	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.25	5.59	21.00
2440MHz_TnomVnom	Pass	3.40	7.91	21.00
2480MHz_TnomVnom	Pass	2.52	8.41	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

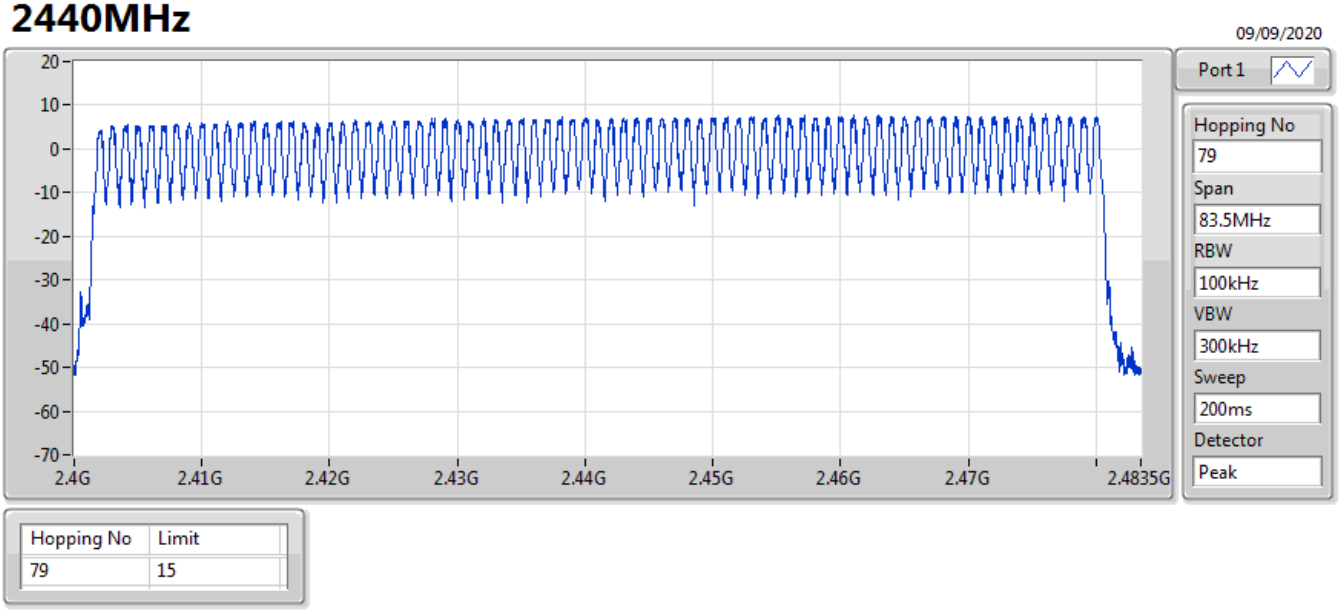
Result

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

BT-BR(1Mbps)

2440MHz

Hopping-FS

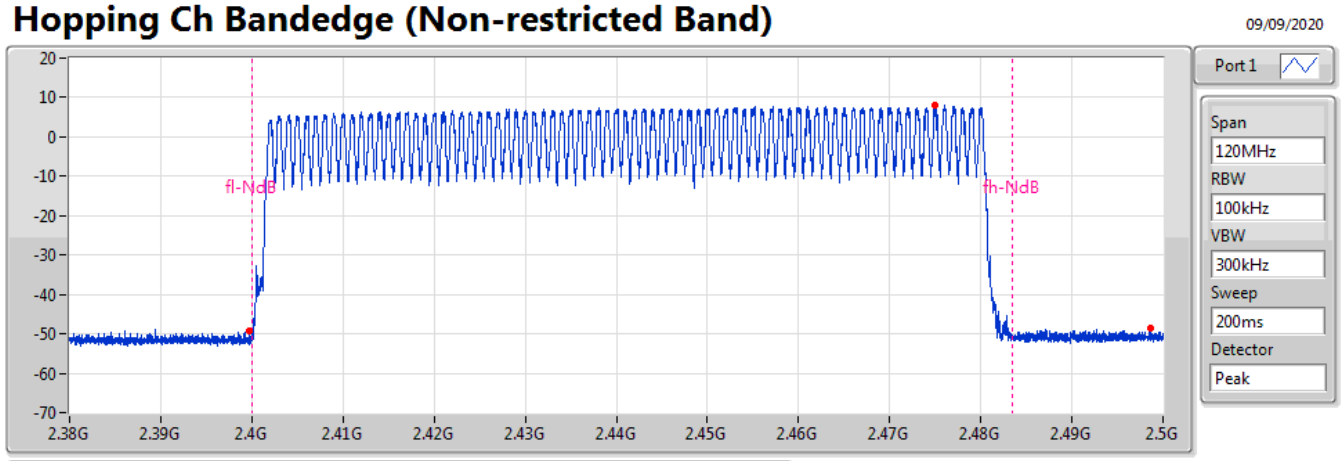


Hopping No	Limit
79	15

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

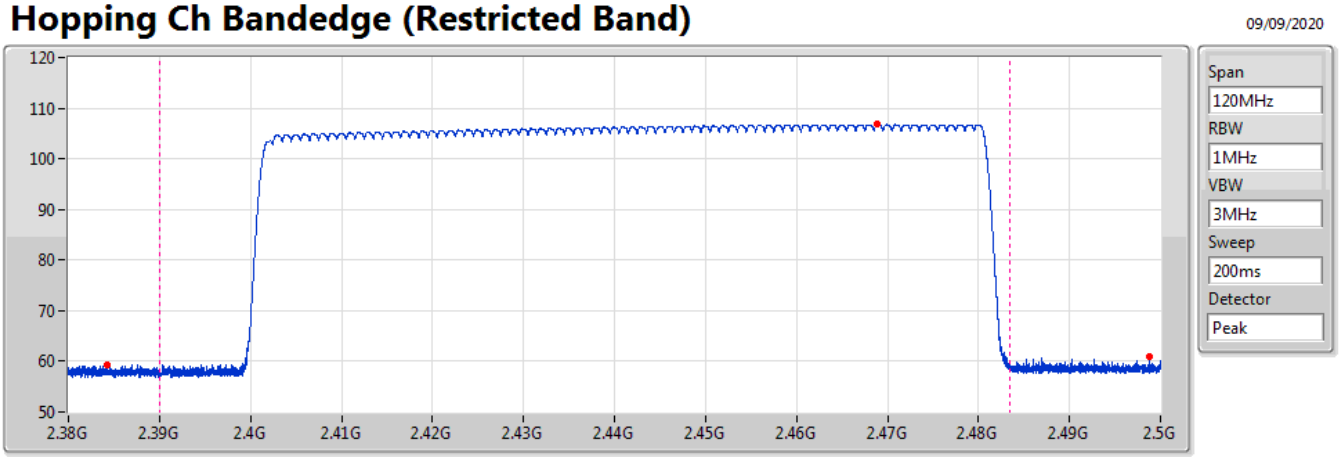


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-12.1	2.47501G	7.9	2.39971G	-49.32	2.49865G	-48.66

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

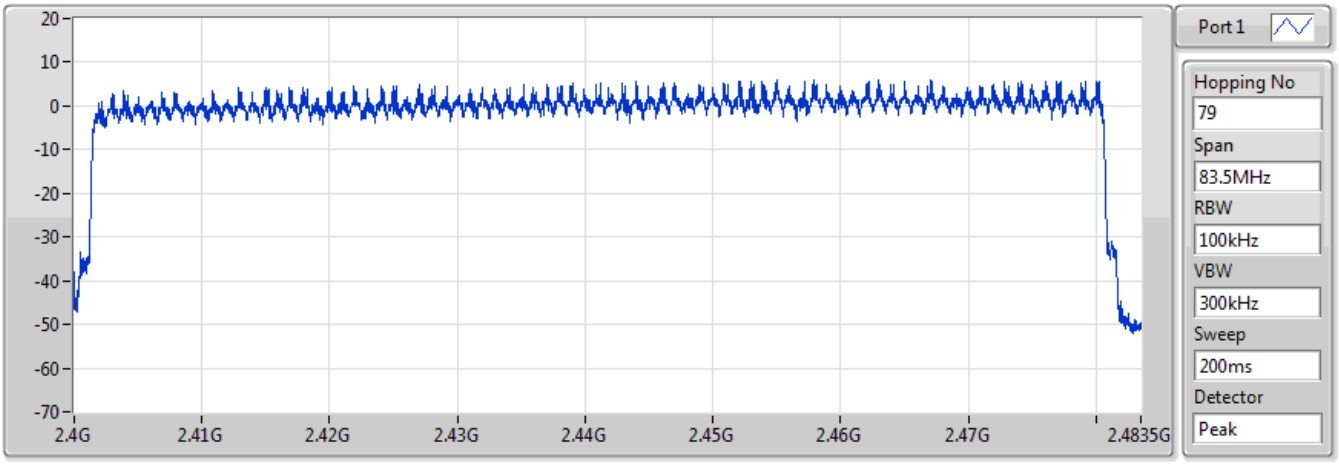


Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.46886G	106.74	2.384215G	59.3	29.2	2.49883G	60.88	30.78	74	54	3.125	-30.1

BT-EDR(2Mbps)

Hopping-FS

2440MHz

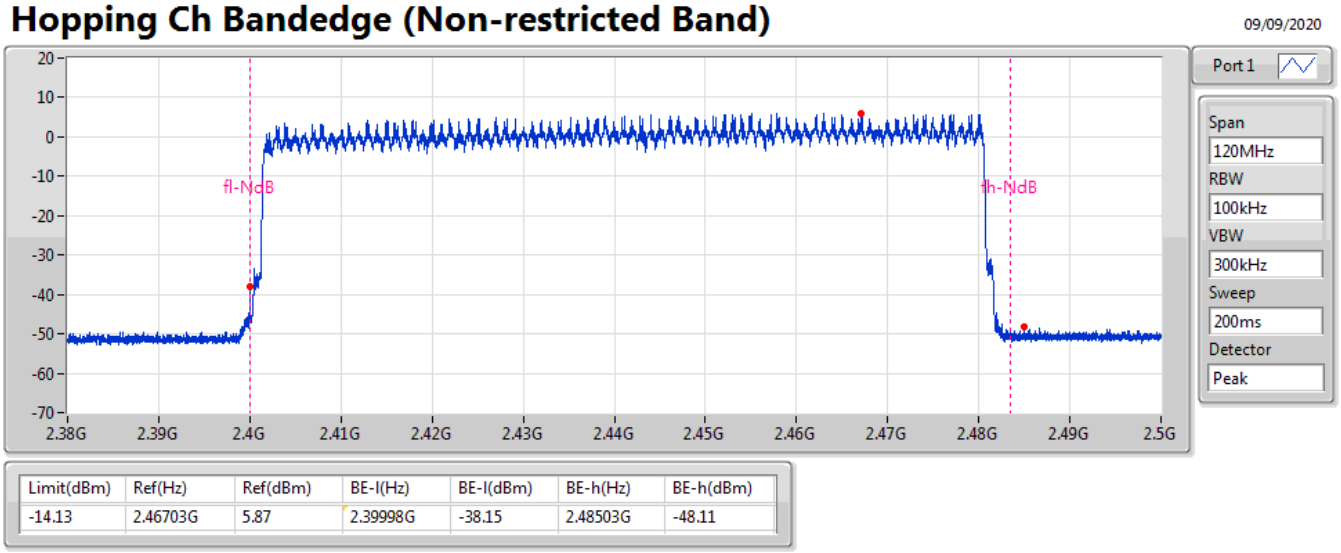


Hopping No	Limit
79	15

BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

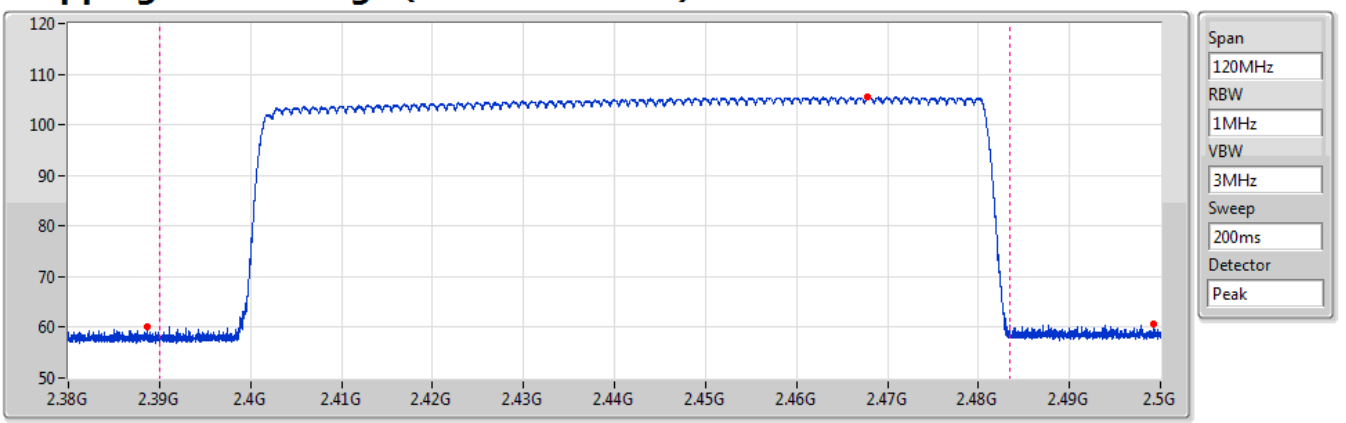


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-14.13	2.46703G	5.87	2.39998G	-38.15	2.48503G	-48.11

BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

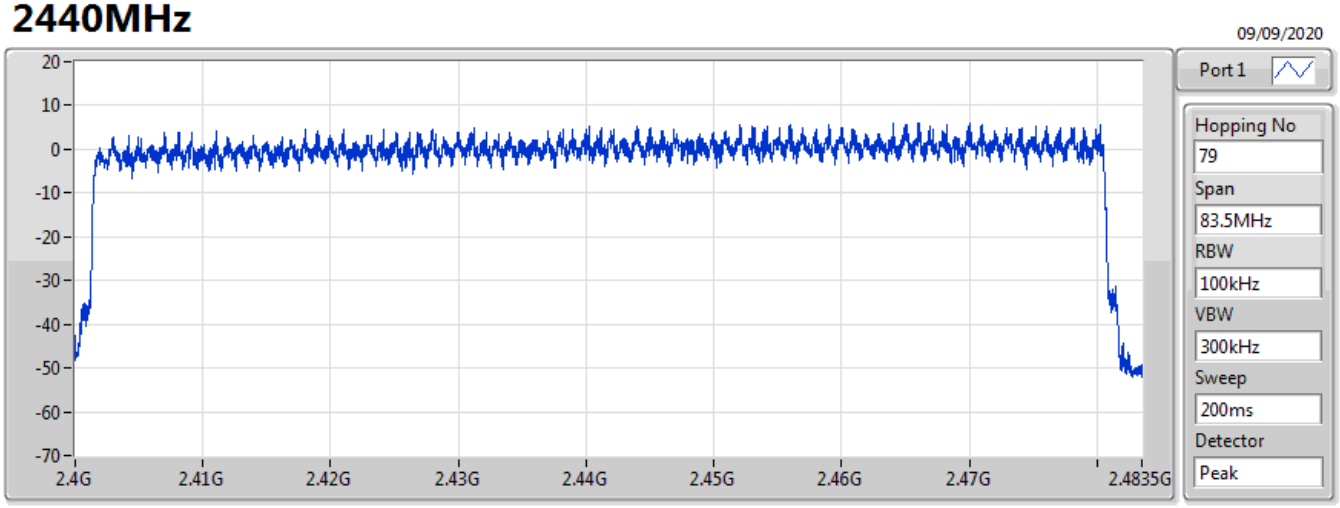


Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.46787G	105.44	2.388625G	60.07	29.97	2.49931G	60.75	30.65	74	54	3.125	-30.1

BT-EDR(3Mbps)

Hopping-FS

2440MHz

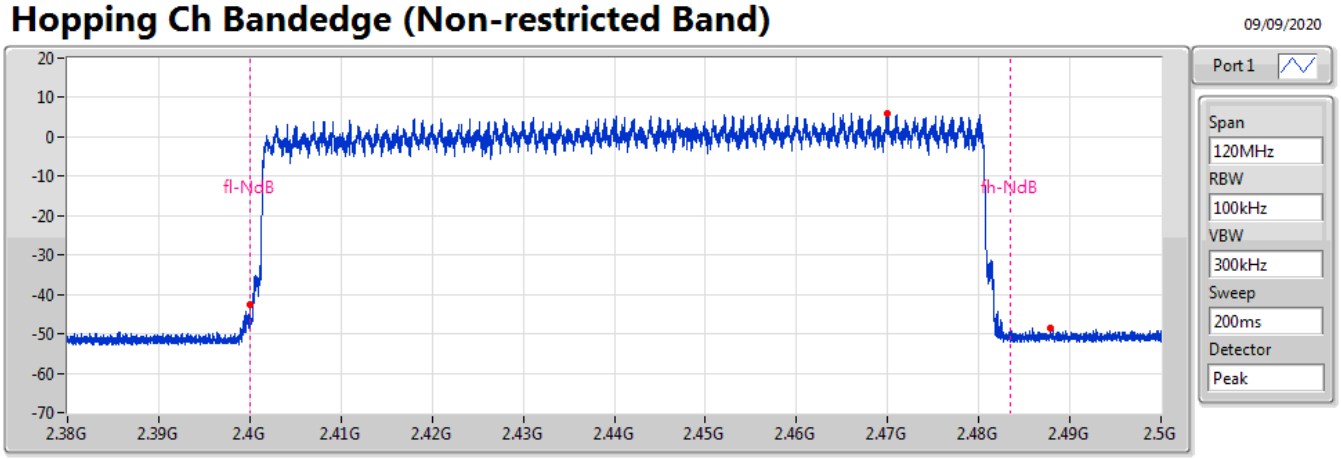


Hopping No	Limit
79	15

BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

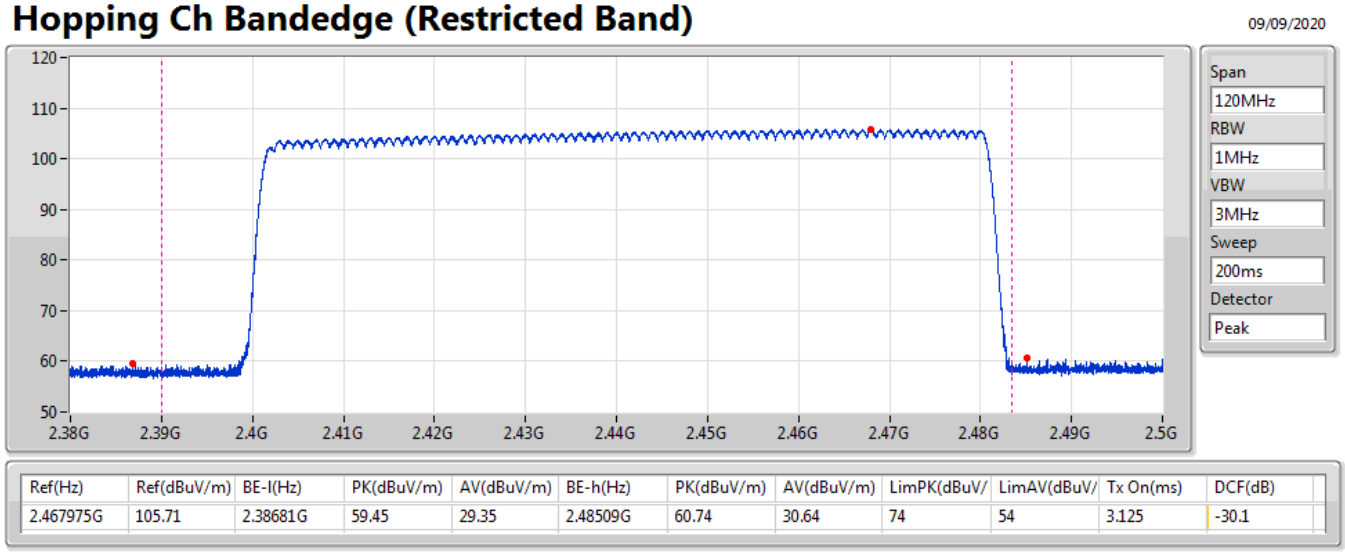


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-14.14	2.470015G	5.86	2.399965G	-42.69	2.487865G	-48.55

BT-EDR(3Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)



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)
2.467975G	105.71	2.38681G	59.45	29.35	2.48509G	60.74	30.64	74	54	3.125	-30.1

Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	309.7263m_DH5
BT-EDR(2Mbps)	311.4319m_DH5
BT-EDR(3Mbps)	257.09255m_DH5

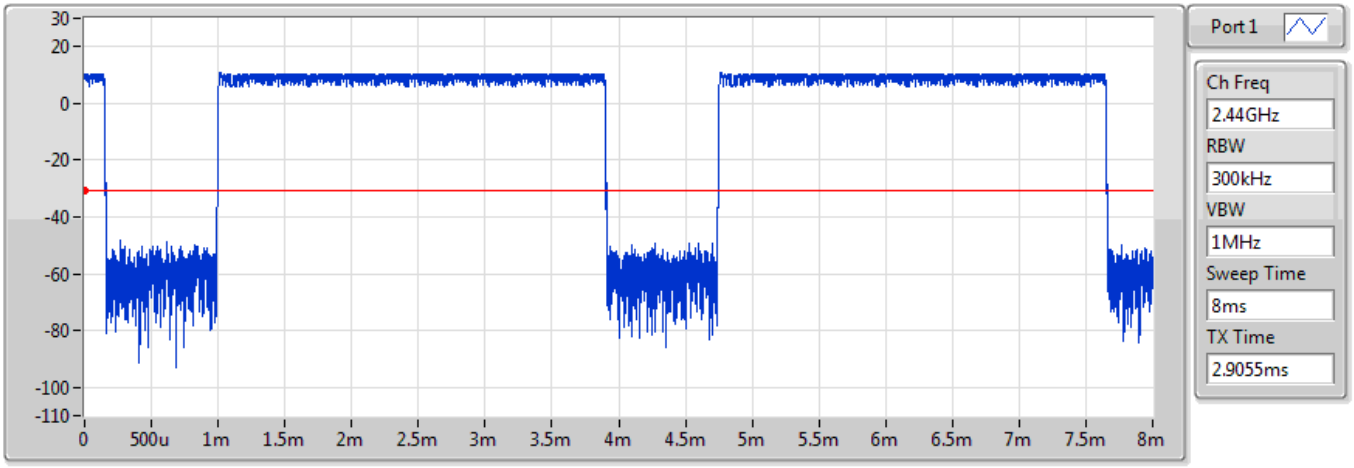
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz_TnomVnom	Pass	31.6	309.7263m_DH5	400m	2.9055m
2440MHz_TnomVnom	Pass	8	154.8365m_DH5-AFH	400m	2.905m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz_TnomVnom	Pass	31.6	311.4319m_DH5	400m	2.9215m
2440MHz_TnomVnom	Pass	8	155.169625m_DH5-AFH	400m	2.91125m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz_TnomVnom	Pass	31.6	257.09255m_DH5	400m	2.41175m
2440MHz_TnomVnom	Pass	8	54.459275m_DH5-AFH	400m	1.02175m

BT-BR(1Mbps) **Dwell-FS**

2440MHz

16/09/2020



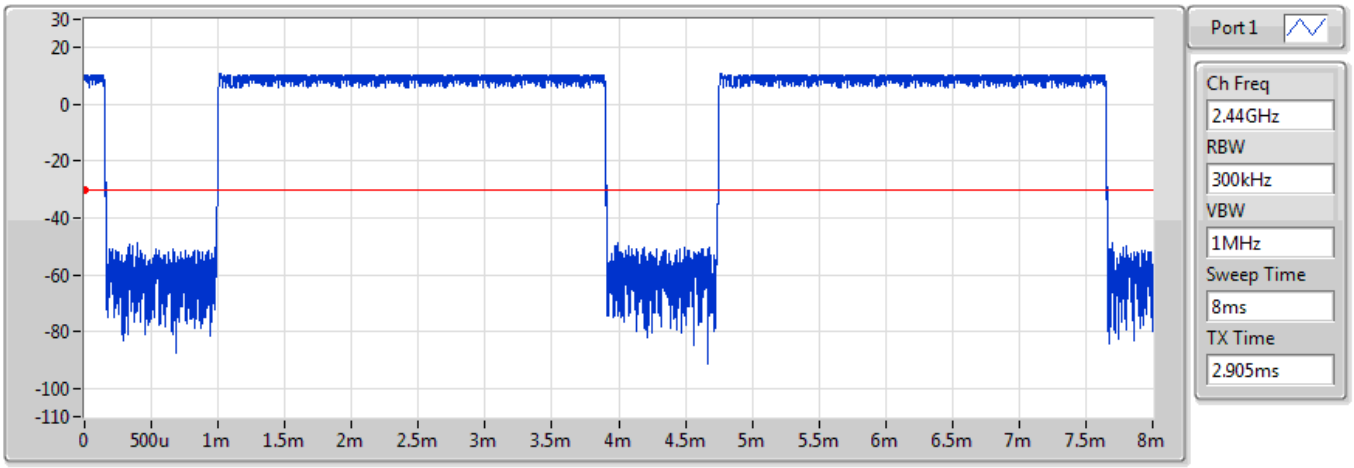
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	309.7263m_DH5	400m	2.9055m

DH5

BT-BR(1Mbps) **Dwell-FS**

2440MHz

16/09/2020

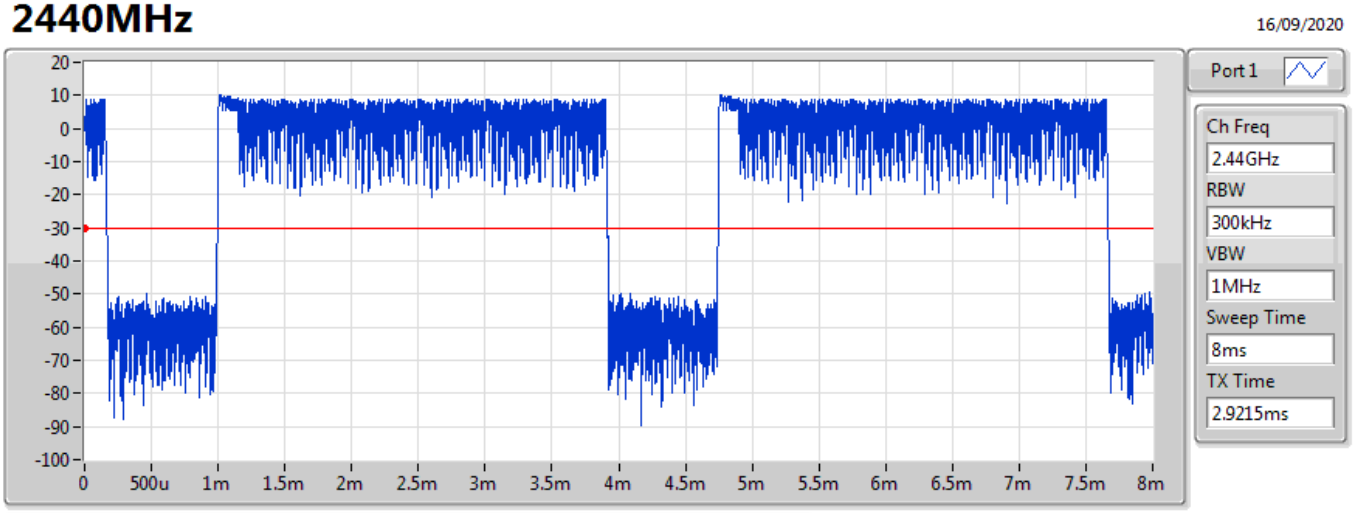


Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	154.8365m_DH5-AFH	400m	2.905m

DH5-AFH

BT-EDR(2Mbps) Dwell-FS

2440MHz

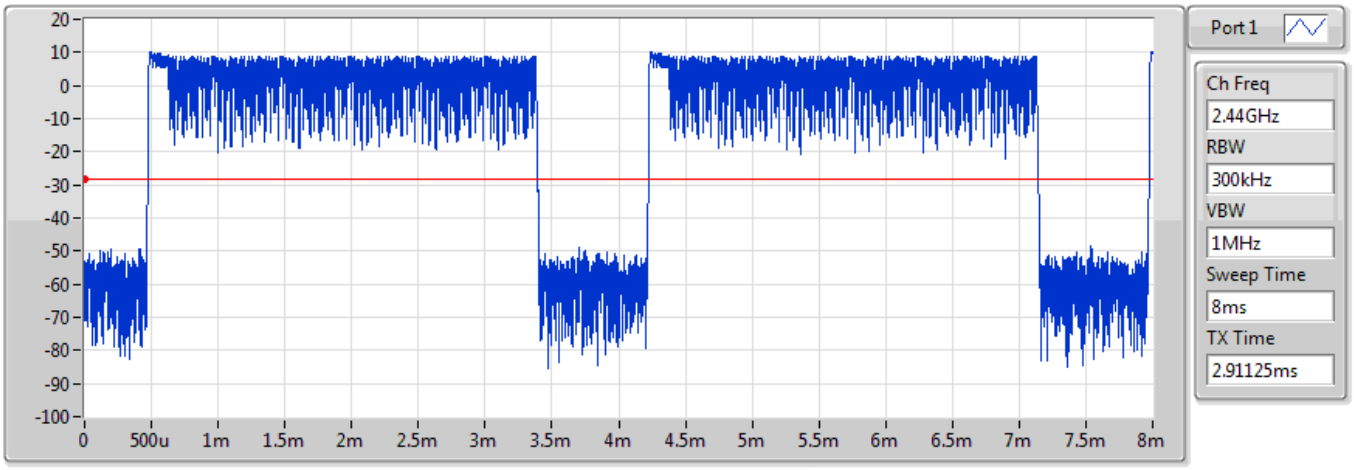


Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	311.4319m_DH5	400m	2.9215m

DH5

BT-EDR(2Mbps) Dwell-FS

2440MHz



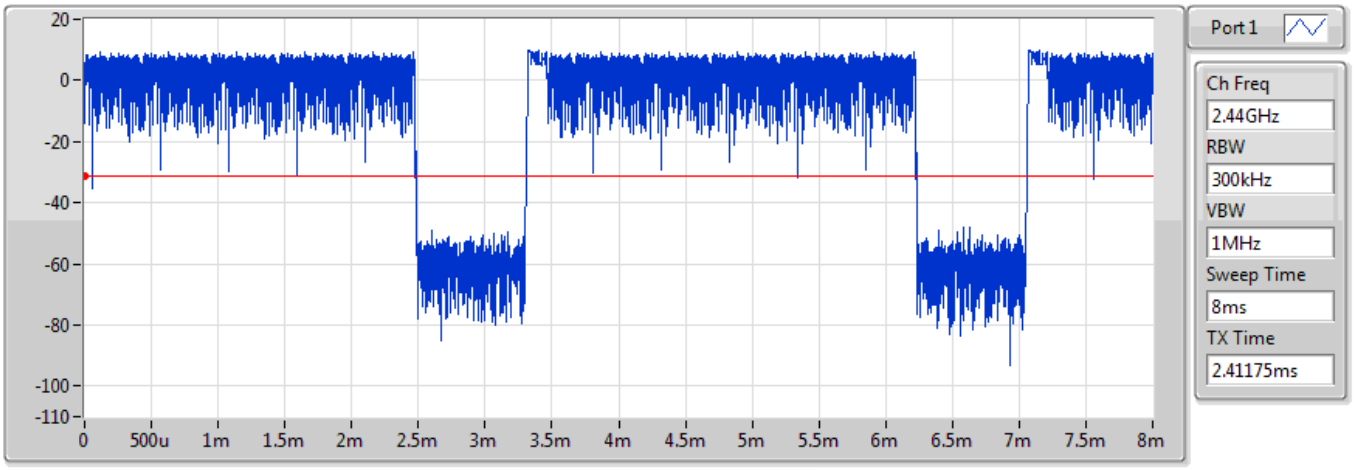
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	155.169625m_DH5-AFI	400m	2.91125m

DH5-AFH

BT-EDR(3Mbps) **Dwell-FS**

2440MHz

16/09/2020



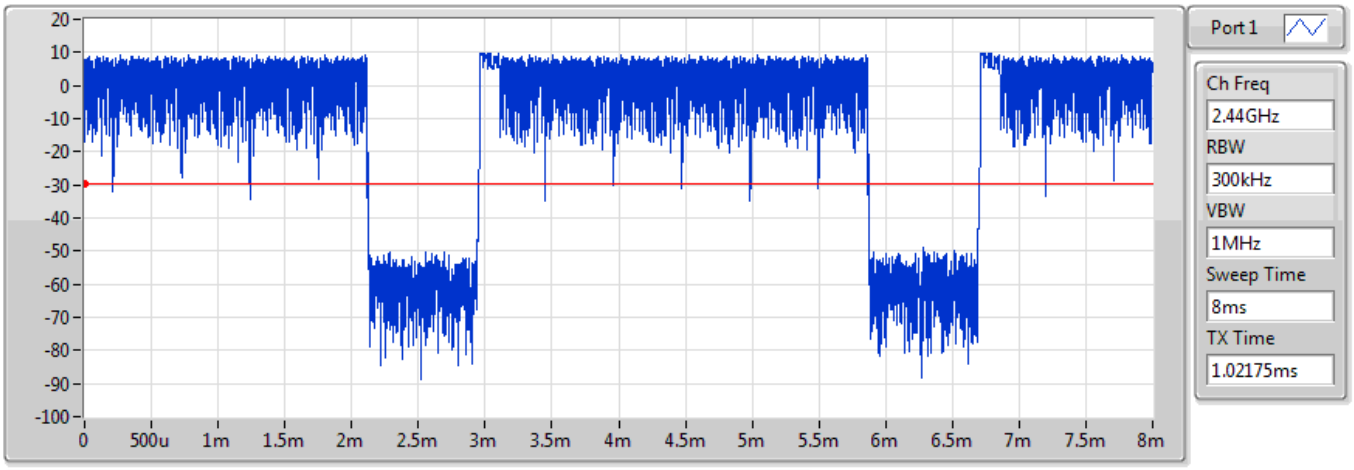
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	257.09255m_DH5	400m	2.41175m

DH5

BT-EDR(3Mbps) **Dwell-FS**

2440MHz

16/09/2020



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	54.459275m_DH5-AFH	400m	1.02175m

DH5-AFH

Summary

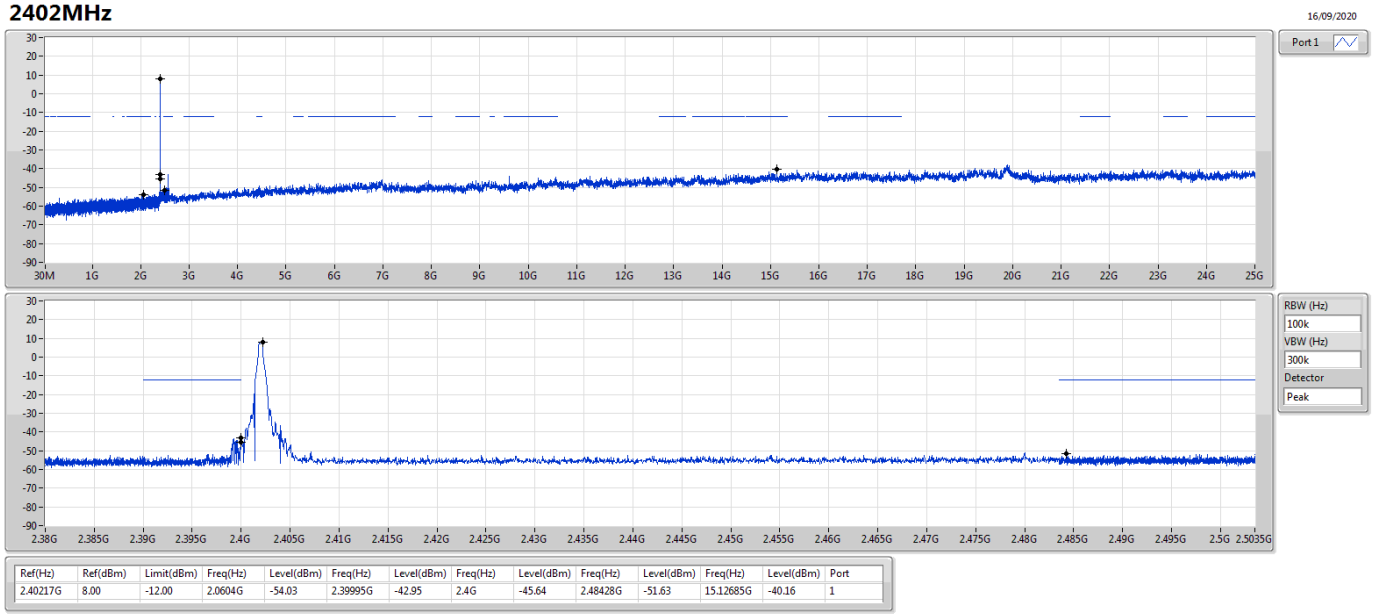
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.40217G	8.00	-12.00	2.0604G	-54.03	2.39995G	-42.95	2.4G	-45.64	2.48428G	-51.63	15.12685G	-40.16	1
BT-EDR(2Mbps)	Pass	2.40217G	5.77	-14.23	2.15117G	-53.45	2.39954G	-38.29	2.4G	-41.44	2.50041G	-50.80	24.93532G	-40.00	1
BT-EDR(3Mbps)	Pass	2.402G	6.51	-13.49	2.15088G	-54.25	2.39952G	-37.72	2.4G	-42.10	2.50277G	-51.90	24.71879G	-40.49	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_TnomVnom	Pass	2.40217G	8.00	-12.00	2.0604G	-54.03	2.39995G	-42.95	2.4G	-45.64	2.48428G	-51.63	15.12685G	-40.16	1
2440MHz_TnomVnom	Pass	2.44004G	9.08	-10.92	2.18113G	-54.09	2.39795G	-52.59	2.4G	-54.01	2.49906G	-51.24	9.75862G	-37.52	1
2480MHz_TnomVnom	Pass	2.48008G	9.68	-10.32	2.15558G	-53.45	2.39145G	-53.09	2.4835G	-49.11	2.48355G	-50.39	9.91891G	-36.50	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.40217G	5.77	-14.23	2.15117G	-53.45	2.39954G	-38.29	2.4G	-41.44	2.50041G	-50.80	24.93532G	-40.00	1
2440MHz_TnomVnom	Pass	2.43987G	8.04	-11.96	2.07744G	-53.93	2.39442G	-53.30	2.4835G	-55.05	2.50167G	-51.78	23.2284G	-40.18	1
2480MHz_TnomVnom	Pass	2.48003G	9.11	-10.89	2.14911G	-53.22	2.39344G	-52.39	2.4835G	-54.07	2.48353G	-50.54	24.98875G	-40.25	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402G	6.51	-13.49	2.15088G	-54.25	2.39952G	-37.72	2.4G	-42.10	2.50277G	-51.90	24.71879G	-40.49	1
2440MHz_TnomVnom	Pass	2.43983G	8.43	-11.57	2.00283G	-53.58	2.39627G	-53.25	2.4835G	-55.41	2.49638G	-52.10	24.87346G	-39.98	1
2480MHz_TnomVnom	Pass	2.47987G	9.16	-10.84	2.16086G	-53.65	2.3955G	-52.77	2.4835G	-49.89	2.48365G	-49.78	23.21434G	-39.59	1

BT-BR(1Mbps) **CSENdB-FS**

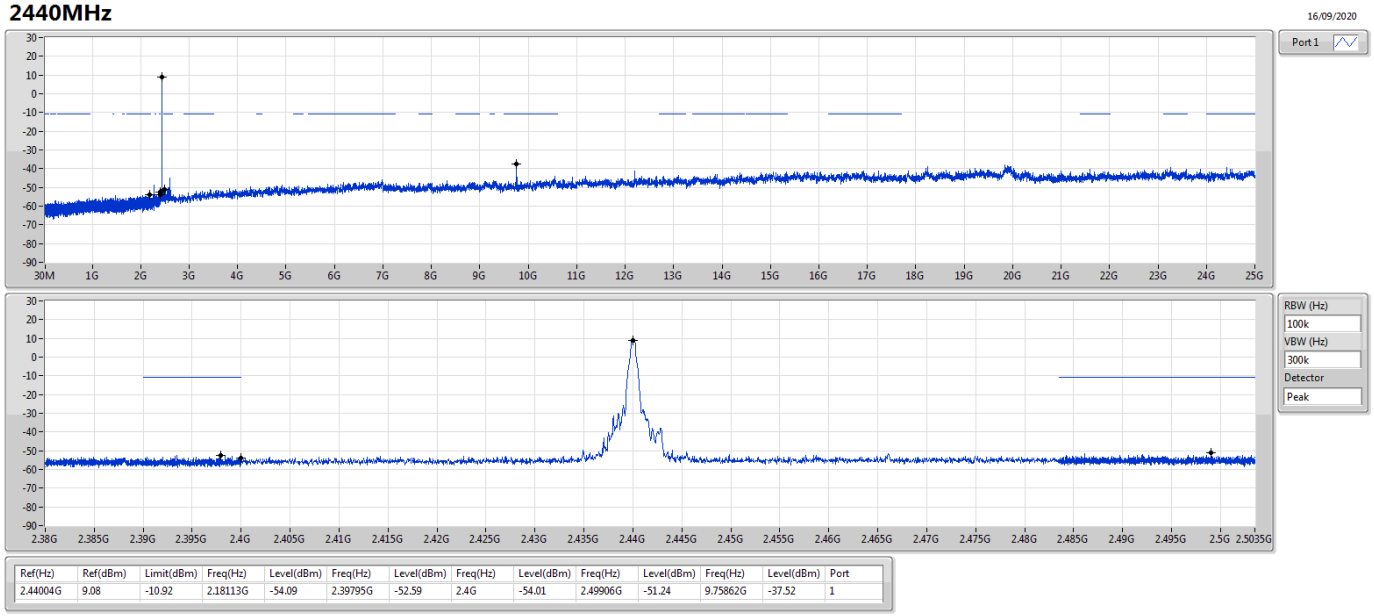
2402MHz



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
2.40217G	8.00	-12.00	2.0604G	-54.03	2.39995G	-42.95	2.4G	-45.64	2.48428G	-51.63	15.12685G	-40.16	1

BT-BR(1Mbps) **CSENdB-FS**

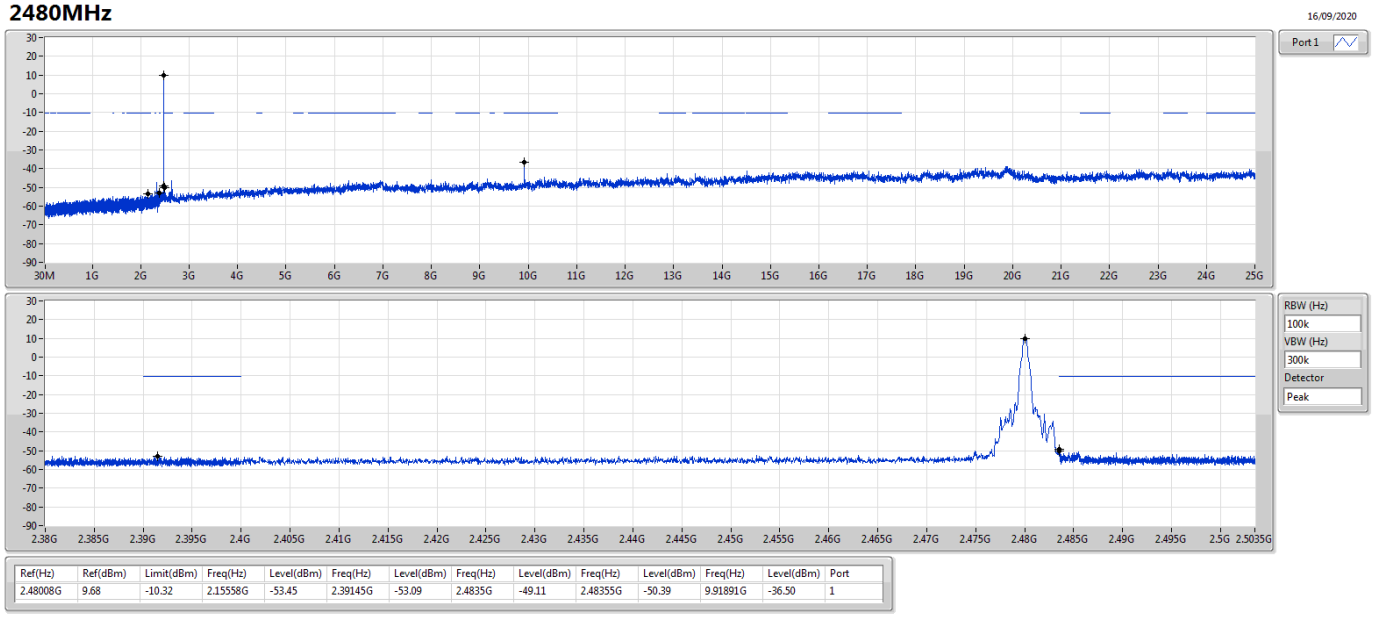
2440MHz



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
2.44004G	9.08	-10.92	2.18113G	-54.09	2.39795G	-52.59	2.4G	-54.01	2.49906G	-51.24	9.75862G	-37.52	1

BT-BR(1Mbps) **CSENdB-FS**

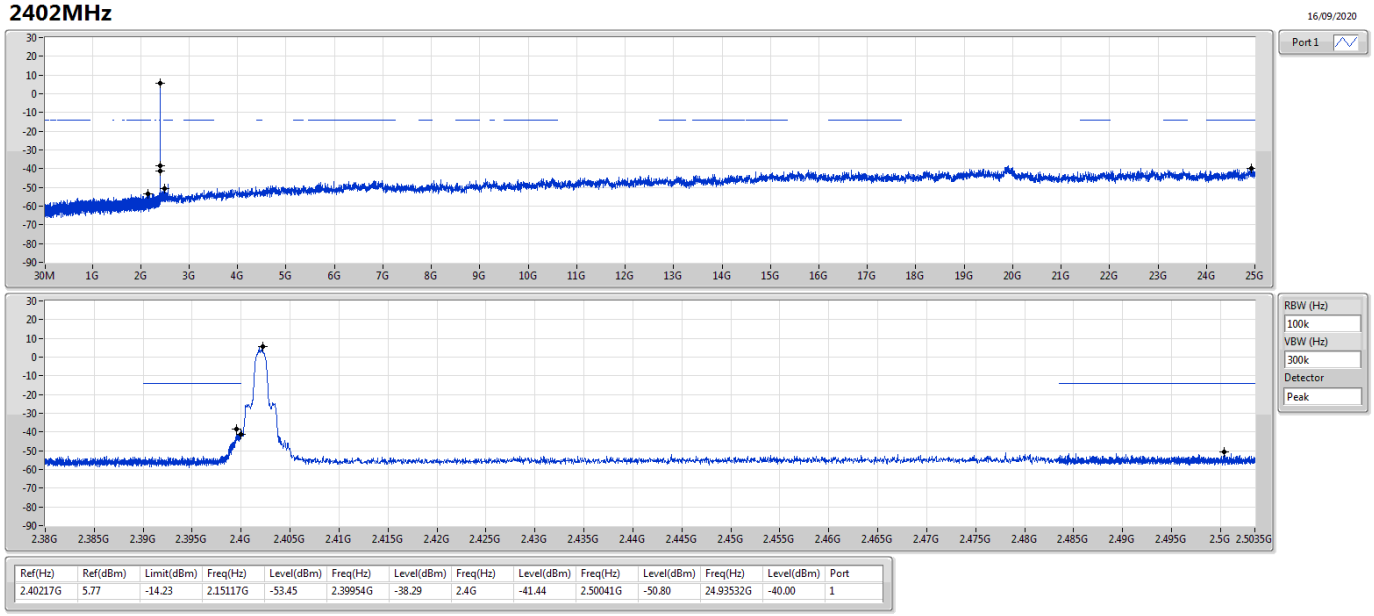
2480MHz



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
2.48008G	9.68	-10.32	2.15558G	-53.45	2.39145G	-53.09	2.4835G	-49.11	2.48355G	-50.39	9.91891G	-36.50	1

BT-EDR(2Mbps) **CSENdB-FS**

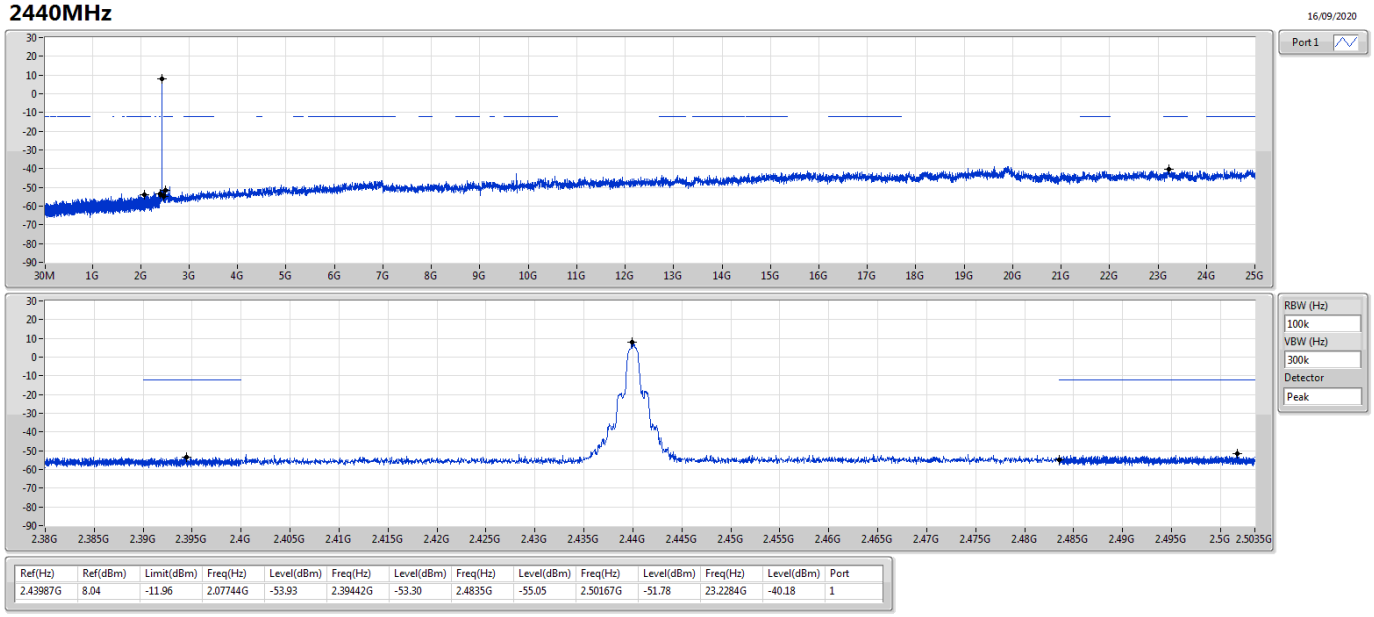
2402MHz



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
2.40217G	5.77	-14.23	2.15117G	-53.45	2.39954G	-38.29	2.4G	-41.44	2.50041G	-50.80	24.93532G	-40.00	1

BT-EDR(2Mbps) **CSENdB-FS**

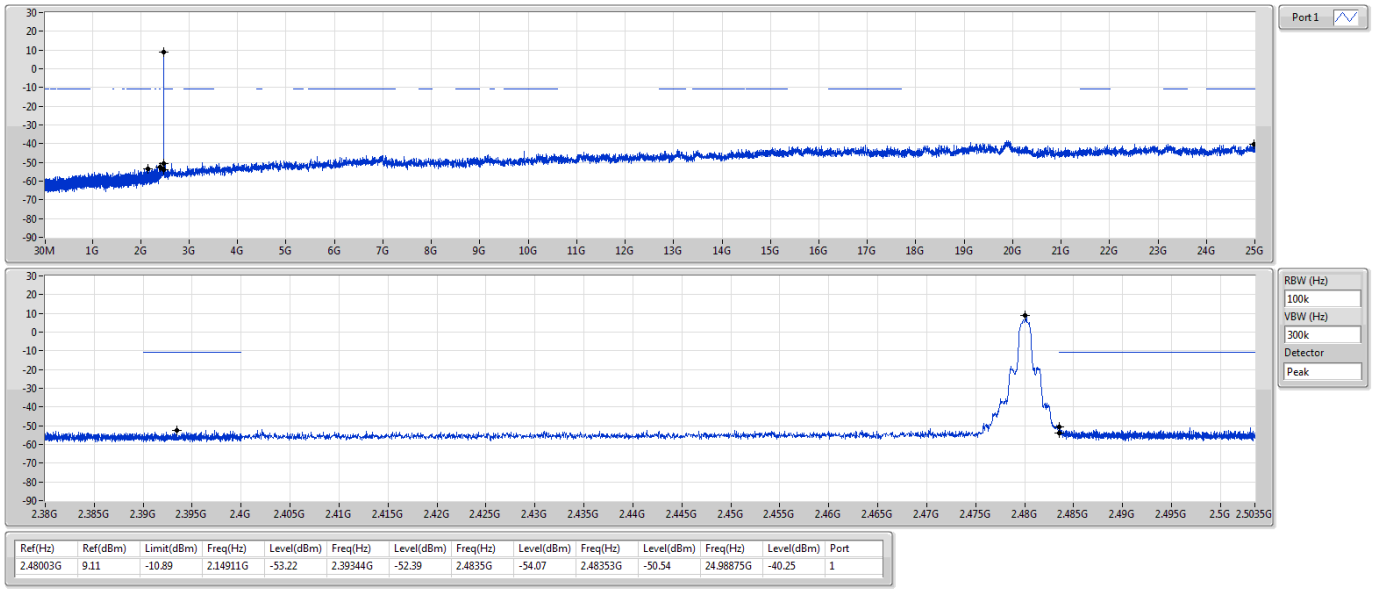
2440MHz



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
2.43987G	8.04	-11.96	2.07744G	-53.93	2.39442G	-53.30	2.4835G	-55.05	2.50167G	-51.78	23.2284G	-40.18	1

BT-EDR(2Mbps) **CSENdB-FS**

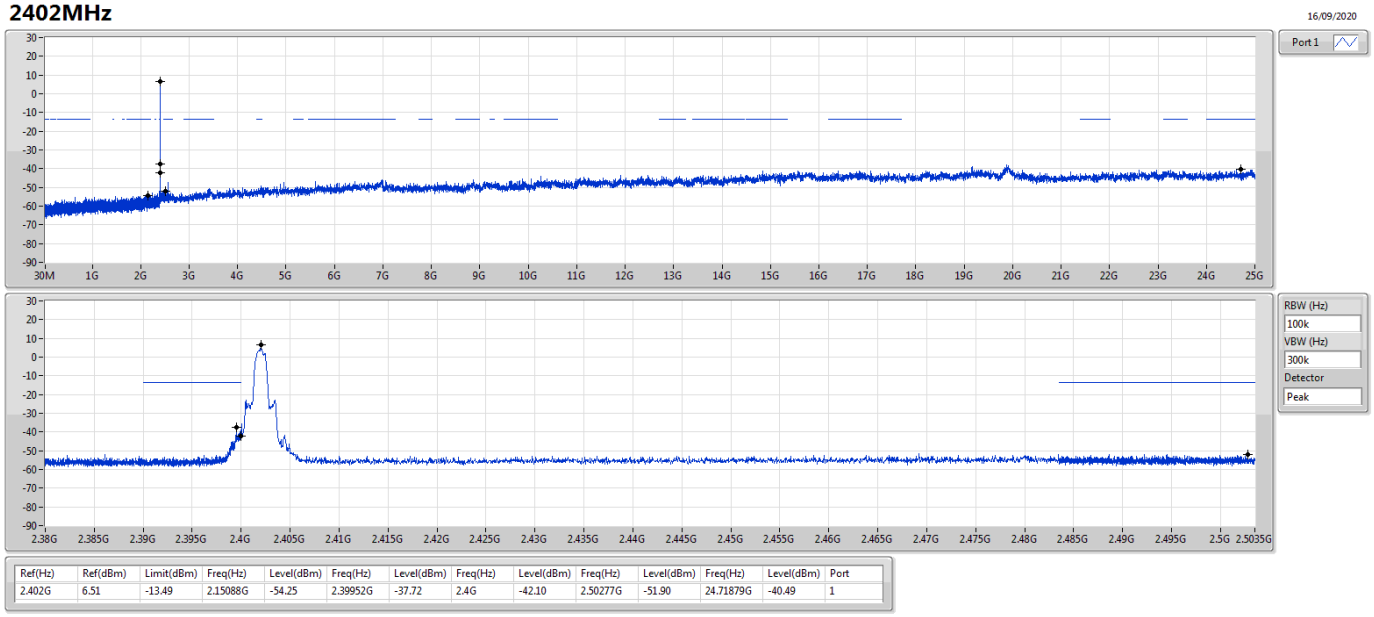
2480MHz



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
2.48003G	9.11	-10.89	2.14911G	-53.22	2.39344G	-52.39	2.4835G	-54.07	2.48353G	-50.54	24.98875G	-40.25	1

BT-EDR(3Mbps) **CSENdB-FS**

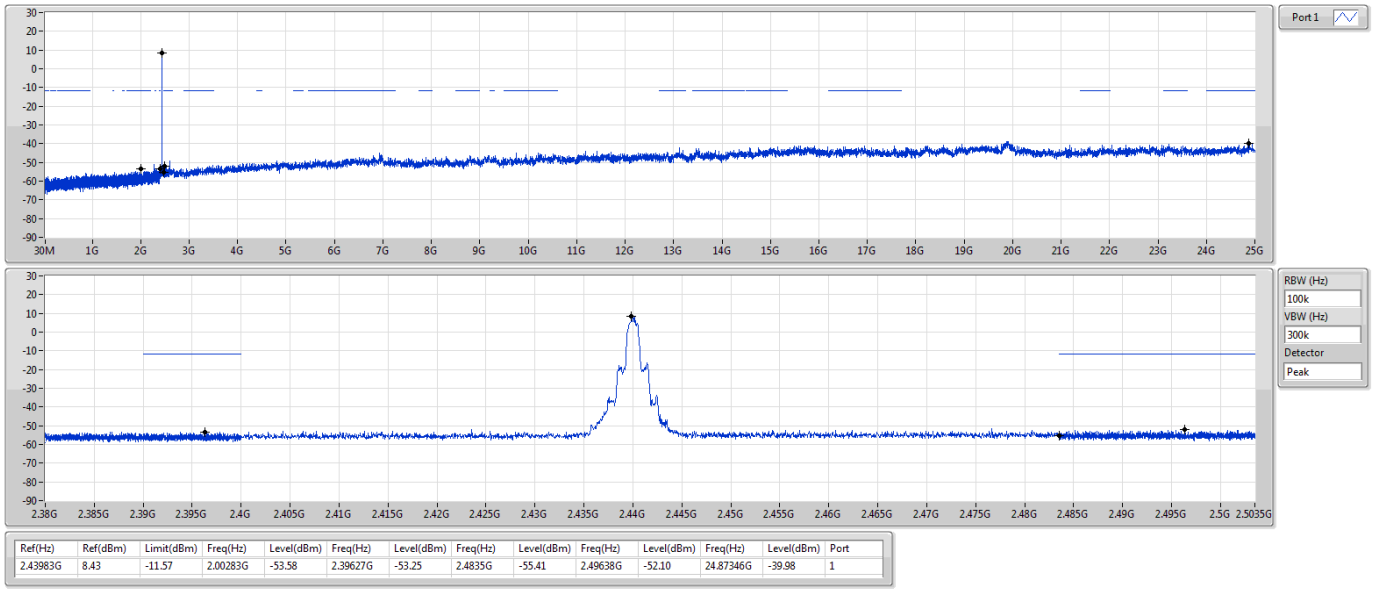
2402MHz



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
2.402G	6.51	-13.49	2.15088G	-54.25	2.39952G	-37.72	2.4G	-42.10	2.50277G	-51.90	24.71879G	-40.49	1

BT-EDR(3Mbps) **CSENdB-FS**

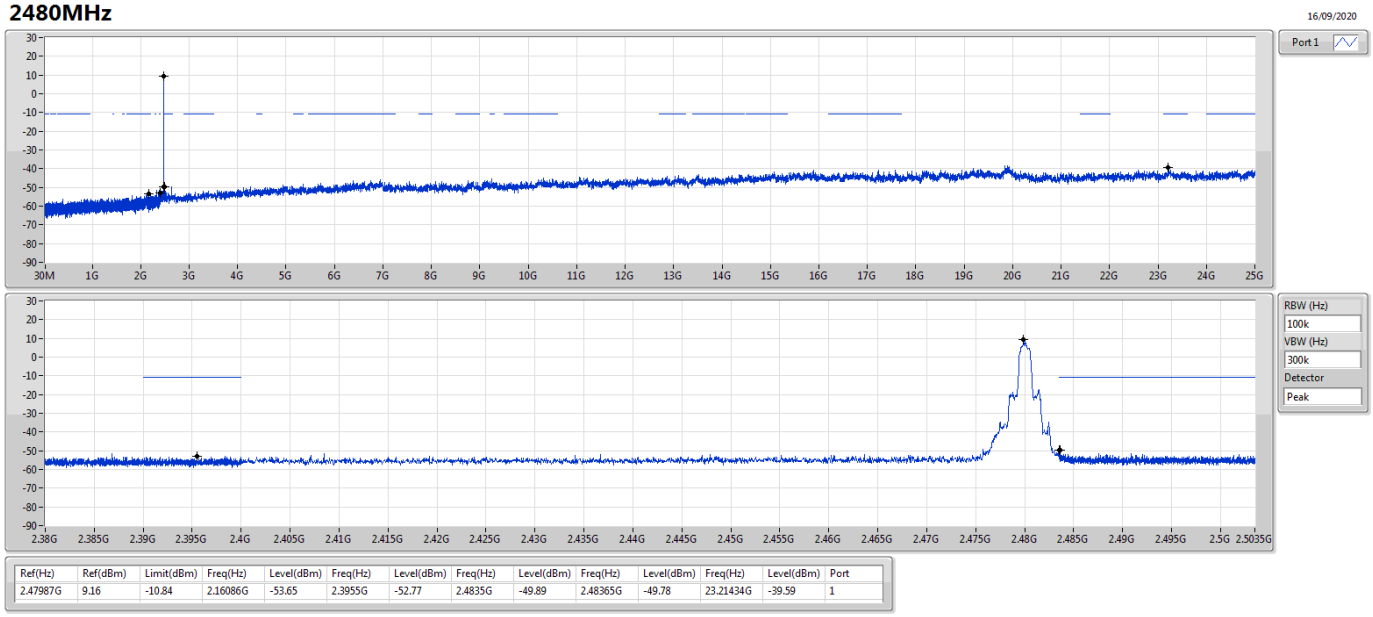
2440MHz



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
2.43983G	8.43	-11.57	2.00283G	-53.58	2.39627G	-53.25	2.4835G	-55.41	2.49638G	-52.10	24.87346G	-39.98	1

BT-EDR(3Mbps) **CSENdB-FS**

2480MHz



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
2.47987G	9.16	-10.84	2.16086G	-53.65	2.3955G	-52.77	2.4835G	-49.89	2.48365G	-49.78	23.21434G	-39.59	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	326.82M	36.89	46.00	-9.11	3	Horizontal	0	1.00	-

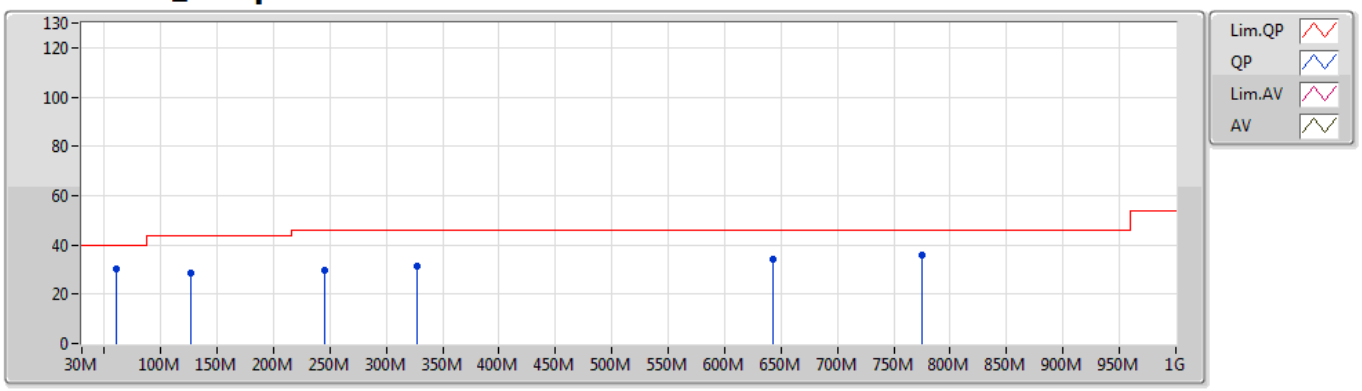
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	61.04M	30.27	40.00	-9.73	3	Vertical	360	1.00	-
2440MHz	Pass	PK	127M	28.60	43.50	-14.90	3	Vertical	360	1.00	-
2440MHz	Pass	PK	245.34M	29.69	46.00	-16.31	3	Vertical	360	1.00	-
2440MHz	Pass	PK	326.82M	31.32	46.00	-14.68	3	Vertical	360	1.00	-
2440MHz	Pass	PK	643.04M	34.37	46.00	-11.63	3	Vertical	360	1.00	-
2440MHz	Pass	PK	774.96M	35.76	46.00	-10.24	3	Vertical	360	1.00	-
2440MHz	Pass	PK	127M	29.76	43.50	-13.74	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	288.02M	30.03	46.00	-15.97	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	326.82M	36.89	46.00	-9.11	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	365.62M	28.00	46.00	-18.00	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	672.14M	36.70	46.00	-9.30	3	Horizontal	0	1.00	-
2440MHz	Pass	PK	774.96M	35.06	46.00	-10.94	3	Horizontal	0	1.00	-

BT-BR(1Mbps)

08/09/2020

2440MHz_Adapter

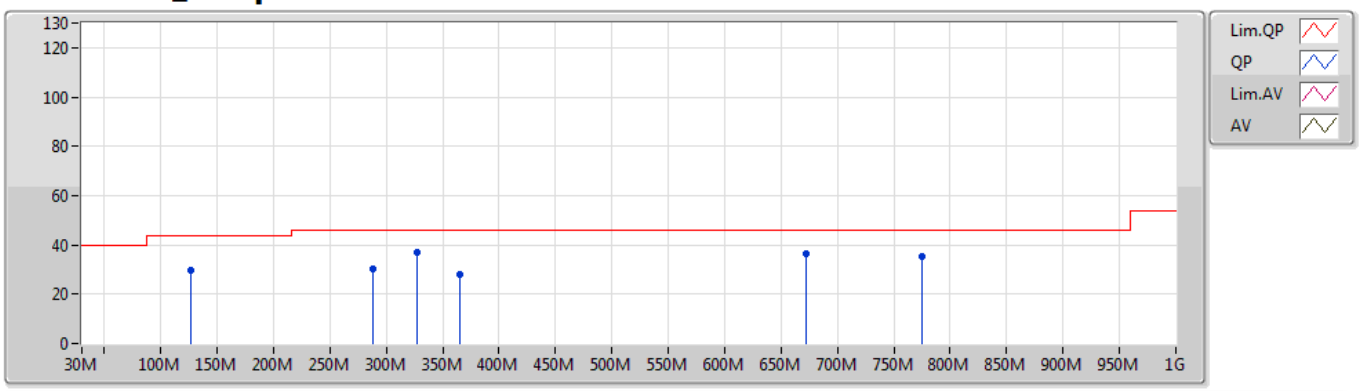


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	61.04M	30.27	40.00	-9.73	-25.52	3	Vertical	360	1.00	-	55.79	10.86	0.60	36.98
PK	127M	28.60	43.50	-14.90	-18.69	3	Vertical	360	1.00	-	47.29	16.92	0.83	36.44
PK	245.34M	29.69	46.00	-16.31	-18.08	3	Vertical	360	1.00	-	47.77	17.05	1.28	36.41
PK	326.82M	31.32	46.00	-14.68	-16.10	3	Vertical	360	1.00	-	47.42	18.88	1.45	36.43
PK	643.04M	34.37	46.00	-11.63	-9.24	3	Vertical	360	1.00	-	43.61	25.57	2.20	37.01
PK	774.96M	35.76	46.00	-10.24	-7.44	3	Vertical	360	1.00	-	43.20	27.36	2.55	37.35

BT-BR(1Mbps)

2440MHz_Adapter

08/09/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	127M	29.76	43.50	-13.74	-18.69	3	Horizontal	0	1.00	-	48.45	16.92	0.83	36.44
PK	288.02M	30.03	46.00	-15.97	-16.90	3	Horizontal	0	1.00	-	46.93	18.09	1.38	36.37
PK	326.82M	36.89	46.00	-9.11	-16.10	3	Horizontal	0	1.00	-	52.99	18.88	1.45	36.43
PK	365.62M	28.00	46.00	-18.00	-15.06	3	Horizontal	0	1.00	-	43.06	19.86	1.56	36.48
PK	672.14M	36.70	46.00	-9.30	-9.22	3	Horizontal	0	1.00	-	45.92	25.60	2.29	37.11
PK	774.96M	35.06	46.00	-10.94	-7.44	3	Horizontal	0	1.00	-	42.50	27.36	2.55	37.35

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	59.41	74.00	-14.59	3	Horizontal	48	2.23	-
BT-EDR(3Mbps)	Pass	PK	2.4836G	57.53	74.00	-16.47	3	Horizontal	47	2.23	-

Result

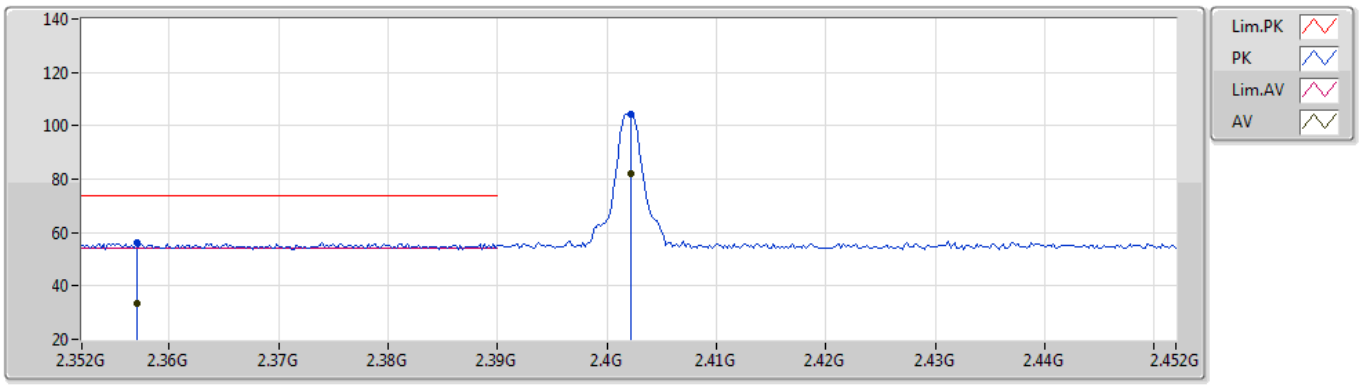
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.357G	33.64	54.00	-20.36	3	Vertical	75	1.53	-
2402MHz	Pass	AV	2.4022G	81.84	Inf	-Inf	3	Vertical	75	1.53	-
2402MHz	Pass	PK	2.357G	56.14	74.00	-17.86	3	Vertical	75	1.53	-
2402MHz	Pass	PK	2.4022G	104.34	Inf	-Inf	3	Vertical	75	1.53	-
2402MHz	Pass	AV	2.3868G	33.78	54.00	-20.22	3	Horizontal	57	2.39	-
2402MHz	Pass	AV	2.4022G	83.99	Inf	-Inf	3	Horizontal	57	2.39	-
2402MHz	Pass	PK	2.3868G	56.28	74.00	-17.72	3	Horizontal	57	2.39	-
2402MHz	Pass	PK	2.4022G	106.49	Inf	-Inf	3	Horizontal	57	2.39	-
2402MHz	Pass	AV	4.80399G	24.94	54.00	-29.06	3	Vertical	84	1.37	-
2402MHz	Pass	PK	4.80399G	47.44	74.00	-26.56	3	Vertical	84	1.37	-
2402MHz	Pass	AV	4.80414G	24.18	54.00	-29.82	3	Horizontal	35	1.21	-
2402MHz	Pass	PK	4.80414G	46.68	74.00	-27.32	3	Horizontal	35	1.21	-
2440MHz	Pass	AV	2.3656G	33.98	54.00	-20.02	3	Vertical	70	1.29	-
2440MHz	Pass	AV	2.44G	83.98	Inf	-Inf	3	Vertical	70	1.29	-
2440MHz	Pass	AV	2.4972G	33.40	54.00	-20.60	3	Vertical	70	1.29	-
2440MHz	Pass	PK	2.3656G	56.48	74.00	-17.52	3	Vertical	70	1.29	-
2440MHz	Pass	PK	2.44G	106.48	Inf	-Inf	3	Vertical	70	1.29	-
2440MHz	Pass	PK	2.4972G	55.90	74.00	-18.10	3	Vertical	70	1.29	-
2440MHz	Pass	AV	2.362G	34.55	54.00	-19.45	3	Horizontal	41	2.36	-
2440MHz	Pass	AV	2.44G	86.57	Inf	-Inf	3	Horizontal	41	2.36	-
2440MHz	Pass	AV	2.498G	34.67	54.00	-19.33	3	Horizontal	41	2.36	-
2440MHz	Pass	PK	2.362G	57.05	74.00	-16.95	3	Horizontal	41	2.36	-
2440MHz	Pass	PK	2.44G	109.07	Inf	-Inf	3	Horizontal	41	2.36	-
2440MHz	Pass	PK	2.498G	57.17	74.00	-16.83	3	Horizontal	41	2.36	-
2440MHz	Pass	AV	4.88035G	23.83	54.00	-30.17	3	Vertical	54	1.16	-
2440MHz	Pass	PK	4.88035G	46.33	74.00	-27.67	3	Vertical	54	1.16	-
2440MHz	Pass	AV	4.88022G	29.40	54.00	-24.60	3	Horizontal	35	1.03	-
2440MHz	Pass	PK	4.88022G	45.44	74.00	-28.56	3	Horizontal	35	1.03	-
2480MHz	Pass	AV	2.4798G	82.76	Inf	-Inf	3	Vertical	69	1.03	-
2480MHz	Pass	AV	2.4835G	36.26	54.00	-17.74	3	Vertical	69	1.03	-
2480MHz	Pass	PK	2.4798G	105.26	Inf	-Inf	3	Vertical	69	1.03	-
2480MHz	Pass	PK	2.4835G	58.76	74.00	-15.24	3	Vertical	69	1.03	-
2480MHz	Pass	AV	2.4798G	85.34	Inf	-Inf	3	Horizontal	48	2.23	-
2480MHz	Pass	AV	2.4835G	36.91	54.00	-17.09	3	Horizontal	48	2.23	-
2480MHz	Pass	PK	2.4798G	107.84	Inf	-Inf	3	Horizontal	48	2.23	-
2480MHz	Pass	PK	2.4835G	59.41	74.00	-14.59	3	Horizontal	48	2.23	-
2480MHz	Pass	AV	4.9603G	25.29	54.00	-28.71	3	Vertical	58	1.00	-
2480MHz	Pass	PK	4.9603G	47.79	74.00	-26.21	3	Vertical	58	1.00	-
2480MHz	Pass	AV	4.96032G	22.86	54.00	-31.14	3	Horizontal	41	1.00	-
2480MHz	Pass	PK	4.96032G	45.36	74.00	-28.64	3	Horizontal	41	1.00	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3694G	34.23	54.00	-19.77	3	Vertical	79	2.00	-
2402MHz	Pass	AV	2.402G	80.56	Inf	-Inf	3	Vertical	79	2.00	-
2402MHz	Pass	PK	2.3694G	56.73	74.00	-17.27	3	Vertical	79	2.00	-
2402MHz	Pass	PK	2.402G	103.06	Inf	-Inf	3	Vertical	79	2.00	-
2402MHz	Pass	AV	2.3566G	33.85	54.00	-20.15	3	Horizontal	57	2.39	-
2402MHz	Pass	AV	2.4018G	82.51	Inf	-Inf	3	Horizontal	57	2.39	-
2402MHz	Pass	PK	2.3566G	56.35	74.00	-17.65	3	Horizontal	57	2.39	-
2402MHz	Pass	PK	2.4018G	105.01	Inf	-Inf	3	Horizontal	57	2.39	-
2402MHz	Pass	AV	4.80369G	24.33	54.00	-29.67	3	Vertical	56	1.02	-
2402MHz	Pass	PK	4.80369G	46.83	74.00	-27.17	3	Vertical	56	1.02	-
2402MHz	Pass	AV	4.8032G	22.00	54.00	-32.00	3	Horizontal	42	1.26	-
2402MHz	Pass	PK	4.8032G	44.50	74.00	-29.50	3	Horizontal	42	1.26	-
2440MHz	Pass	AV	2.3784G	34.47	54.00	-19.53	3	Vertical	71	1.28	-
2440MHz	Pass	AV	2.44G	82.78	Inf	-Inf	3	Vertical	71	1.28	-
2440MHz	Pass	AV	2.4888G	34.16	54.00	-19.84	3	Vertical	71	1.28	-
2440MHz	Pass	PK	2.3784G	56.97	74.00	-17.03	3	Vertical	71	1.28	-
2440MHz	Pass	PK	2.44G	105.28	Inf	-Inf	3	Vertical	71	1.28	-
2440MHz	Pass	PK	2.4888G	56.66	74.00	-17.34	3	Vertical	71	1.28	-
2440MHz	Pass	AV	2.354G	33.88	54.00	-20.12	3	Horizontal	42	2.37	-

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	85.54	Inf	-Inf	3	Horizontal	42	2.37	-
2440MHz	Pass	AV	2.4876G	34.43	54.00	-19.57	3	Horizontal	42	2.37	-
2440MHz	Pass	PK	2.354G	56.38	74.00	-17.62	3	Horizontal	42	2.37	-
2440MHz	Pass	PK	2.44G	108.04	Inf	-Inf	3	Horizontal	42	2.37	-
2440MHz	Pass	PK	2.4876G	56.93	74.00	-17.07	3	Horizontal	42	2.37	-
2440MHz	Pass	AV	4.88014G	23.00	54.00	-31.00	3	Vertical	56	1.15	-
2440MHz	Pass	PK	4.88014G	45.50	74.00	-28.50	3	Vertical	56	1.15	-
2440MHz	Pass	AV	4.87938G	22.35	54.00	-31.65	3	Horizontal	43	1.21	-
2440MHz	Pass	PK	4.87938G	44.85	74.00	-29.15	3	Horizontal	43	1.21	-
2480MHz	Pass	AV	2.4798G	80.93	Inf	-Inf	3	Vertical	69	1.03	-
2480MHz	Pass	AV	2.4842G	34.68	54.00	-19.32	3	Vertical	69	1.03	-
2480MHz	Pass	PK	2.4798G	103.43	Inf	-Inf	3	Vertical	69	1.03	-
2480MHz	Pass	PK	2.4842G	57.18	74.00	-16.82	3	Vertical	69	1.03	-
2480MHz	Pass	AV	2.4798G	83.47	Inf	-Inf	3	Horizontal	47	2.23	-
2480MHz	Pass	AV	2.4836G	35.03	54.00	-18.97	3	Horizontal	47	2.23	-
2480MHz	Pass	PK	2.4798G	105.97	Inf	-Inf	3	Horizontal	47	2.23	-
2480MHz	Pass	PK	2.4836G	57.53	74.00	-16.47	3	Horizontal	47	2.23	-
2480MHz	Pass	AV	4.96004G	23.86	54.00	-30.14	3	Vertical	58	1.13	-
2480MHz	Pass	PK	4.96004G	46.36	74.00	-27.64	3	Vertical	58	1.13	-
2480MHz	Pass	AV	4.96004G	22.52	54.00	-31.48	3	Horizontal	29	1.00	-
2480MHz	Pass	PK	4.96004G	45.02	74.00	-28.98	3	Horizontal	29	1.00	-

BT-BR(1Mbps)

16/09/2020

2402MHz_TX

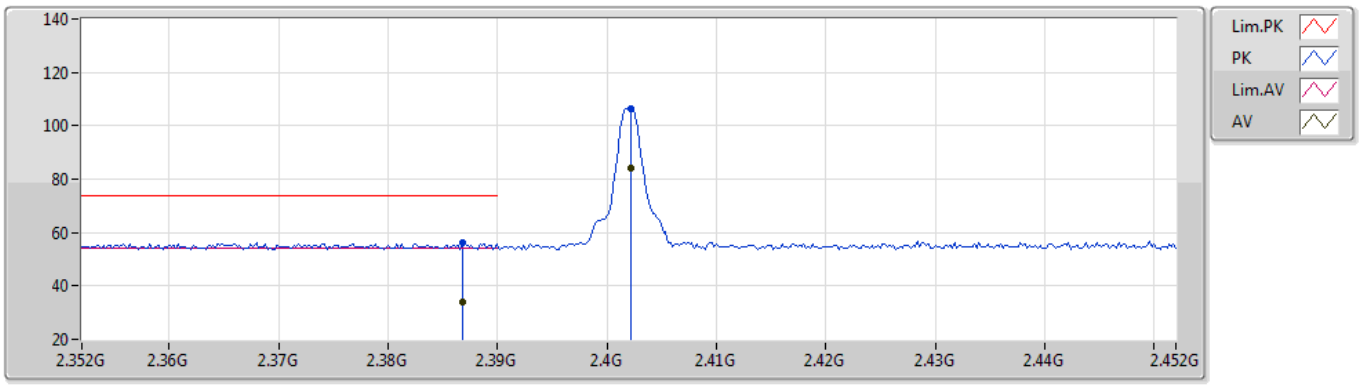


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.357G	33.64	54.00	-20.36	31.61	3	Vertical	75	1.53	-	2.03	27.77	3.84	-
AV	2.4022G	81.84	Inf	-Inf	31.50	3	Vertical	75	1.53	-	50.34	27.60	3.90	-
PK	2.357G	56.14	74.00	-17.86	31.61	3	Vertical	75	1.53	-	24.53	27.77	3.84	-
PK	2.4022G	104.34	Inf	-Inf	31.50	3	Vertical	75	1.53	-	72.84	27.60	3.90	-

BT-BR(1Mbps)

16/09/2020

2402MHz_TX

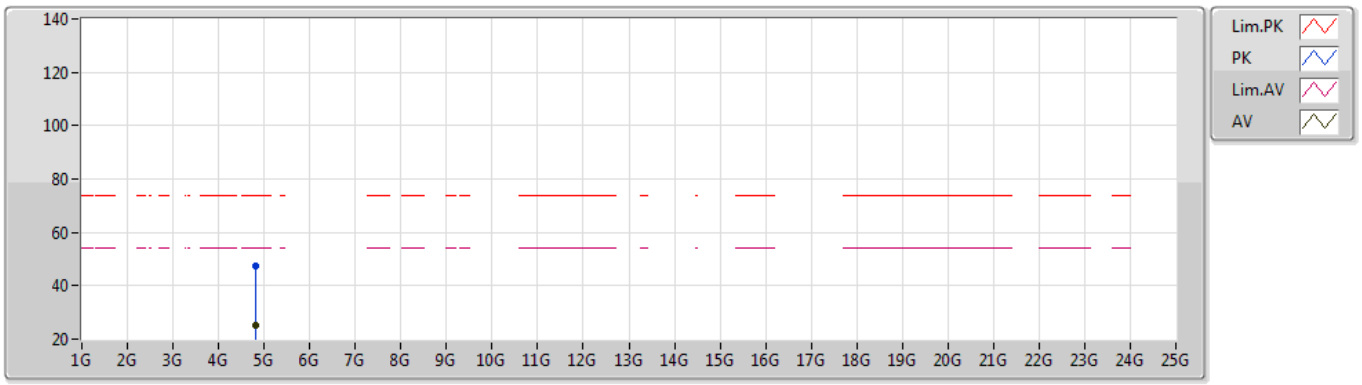


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3868G	33.78	54.00	-20.22	31.53	3	Horizontal	57	2.39	-	2.25	27.65	3.88	-
AV	2.4022G	83.99	Inf	-Inf	31.50	3	Horizontal	57	2.39	-	52.49	27.60	3.90	-
PK	2.3868G	56.28	74.00	-17.72	31.53	3	Horizontal	57	2.39	-	24.75	27.65	3.88	-
PK	2.4022G	106.49	Inf	-Inf	31.50	3	Horizontal	57	2.39	-	74.99	27.60	3.90	-

BT-BR(1Mbps)

16/09/2020

2402MHz_TX

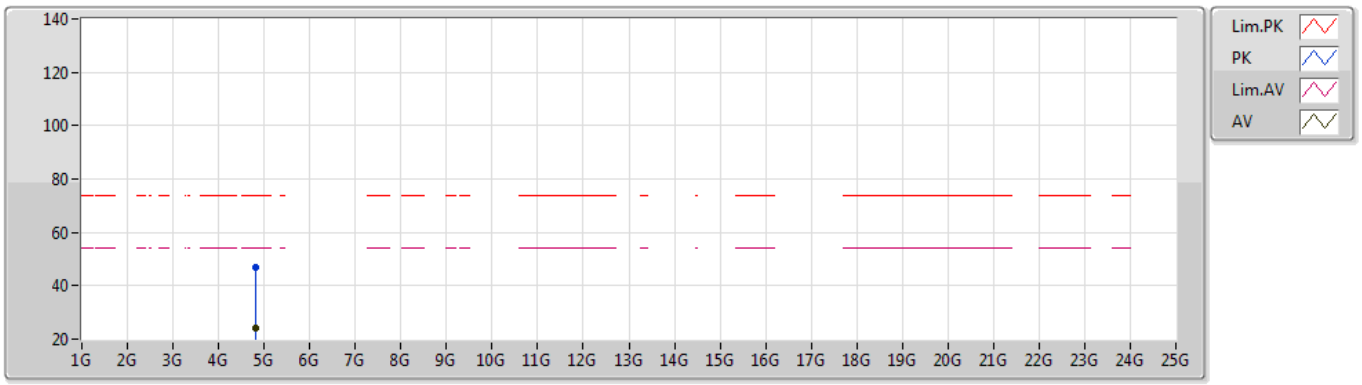


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80399G	24.94	54.00	-29.06	1.49	3	Vertical	84	1.37	-	23.45	31.12	5.30	34.93
PK	4.80399G	47.44	74.00	-26.56	1.49	3	Vertical	84	1.37	-	45.95	31.12	5.30	34.93

BT-BR(1Mbps)

16/09/2020

2402MHz_TX

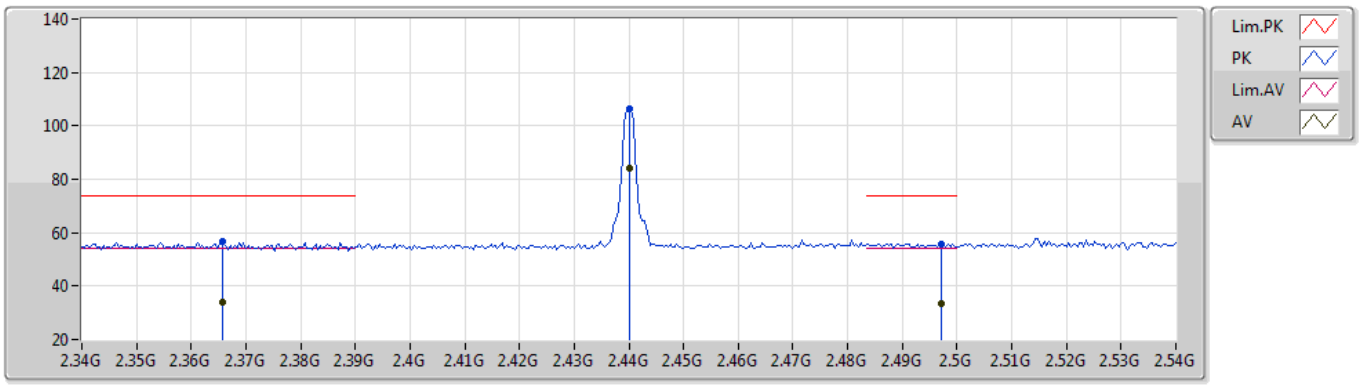


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80414G	24.18	54.00	-29.82	1.49	3	Horizontal	35	1.21	-	22.69	31.12	5.30	34.93
PK	4.80414G	46.68	74.00	-27.32	1.49	3	Horizontal	35	1.21	-	45.19	31.12	5.30	34.93

BT-BR(1Mbps)

2440MHz_TX

16/09/2020

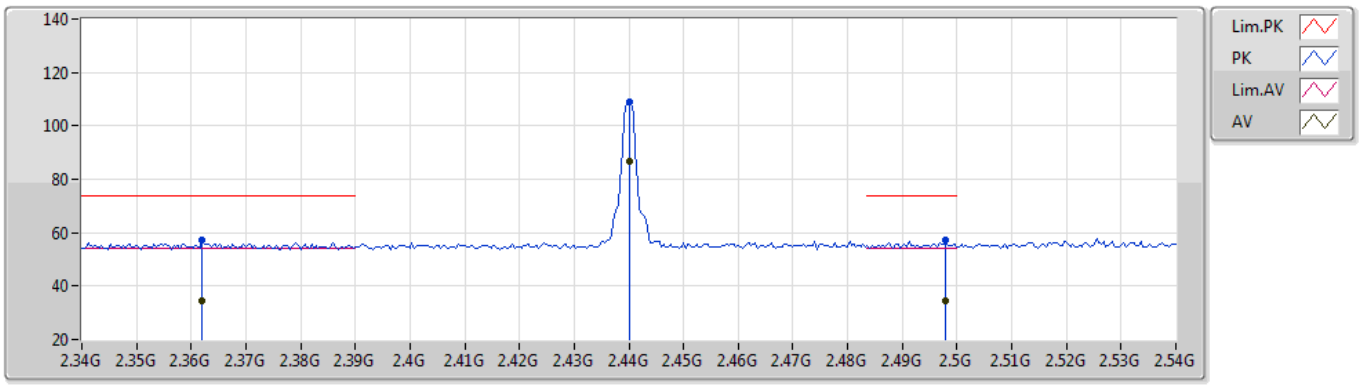


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3656G	33.98	54.00	-20.02	31.59	3	Vertical	70	1.29	-	2.39	27.74	3.85	-
AV	2.44G	83.98	Inf	-Inf	31.56	3	Vertical	70	1.29	-	52.42	27.60	3.96	-
AV	2.4972G	33.40	54.00	-20.60	31.65	3	Vertical	70	1.29	-	1.75	27.60	4.05	-
PK	2.3656G	56.48	74.00	-17.52	31.59	3	Vertical	70	1.29	-	24.89	27.74	3.85	-
PK	2.44G	106.48	Inf	-Inf	31.56	3	Vertical	70	1.29	-	74.92	27.60	3.96	-
PK	2.4972G	55.90	74.00	-18.10	31.65	3	Vertical	70	1.29	-	24.25	27.60	4.05	-

BT-BR(1Mbps)

2440MHz_TX

16/09/2020

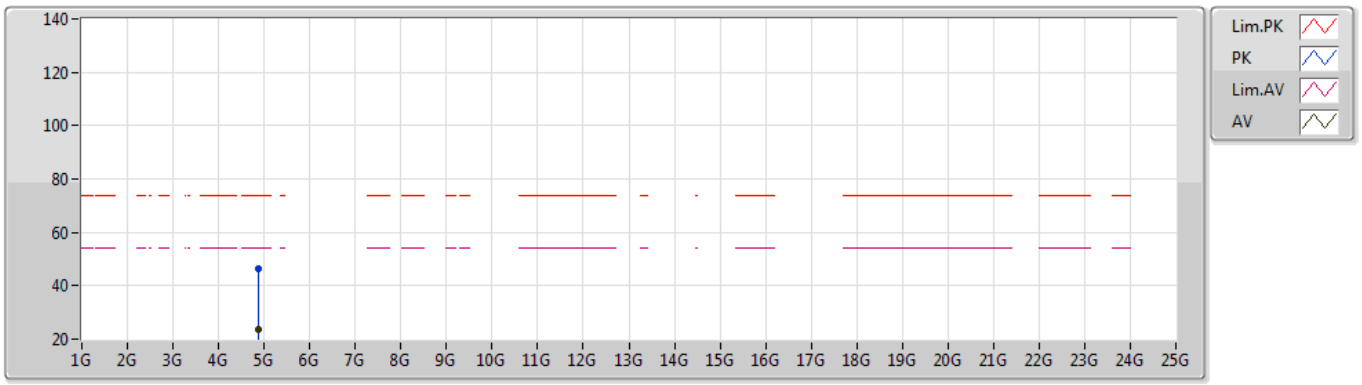


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.362G	34.55	54.00	-19.45	31.59	3	Horizontal	41	2.36	-	2.96	27.75	3.84	-
AV	2.44G	86.57	Inf	-Inf	31.56	3	Horizontal	41	2.36	-	55.01	27.60	3.96	-
AV	2.498G	34.67	54.00	-19.33	31.65	3	Horizontal	41	2.36	-	3.02	27.60	4.05	-
PK	2.362G	57.05	74.00	-16.95	31.59	3	Horizontal	41	2.36	-	25.46	27.75	3.84	-
PK	2.44G	109.07	Inf	-Inf	31.56	3	Horizontal	41	2.36	-	77.51	27.60	3.96	-
PK	2.498G	57.17	74.00	-16.83	31.65	3	Horizontal	41	2.36	-	25.52	27.60	4.05	-

BT-BR(1Mbps)

2440MHz_TX

16/09/2020

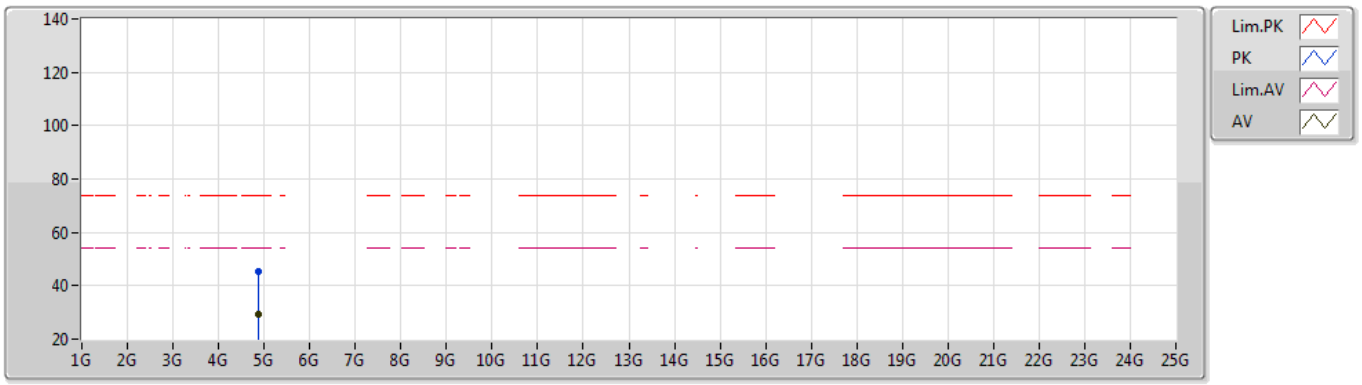


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.88035G	23.83	54.00	-30.17	1.65	3	Vertical	54	1.16	-	22.18	31.24	5.34	34.93
PK	4.88035G	46.33	74.00	-27.67	1.65	3	Vertical	54	1.16	-	44.68	31.24	5.34	34.93

BT-BR(1Mbps)

2440MHz_TX

16/09/2020

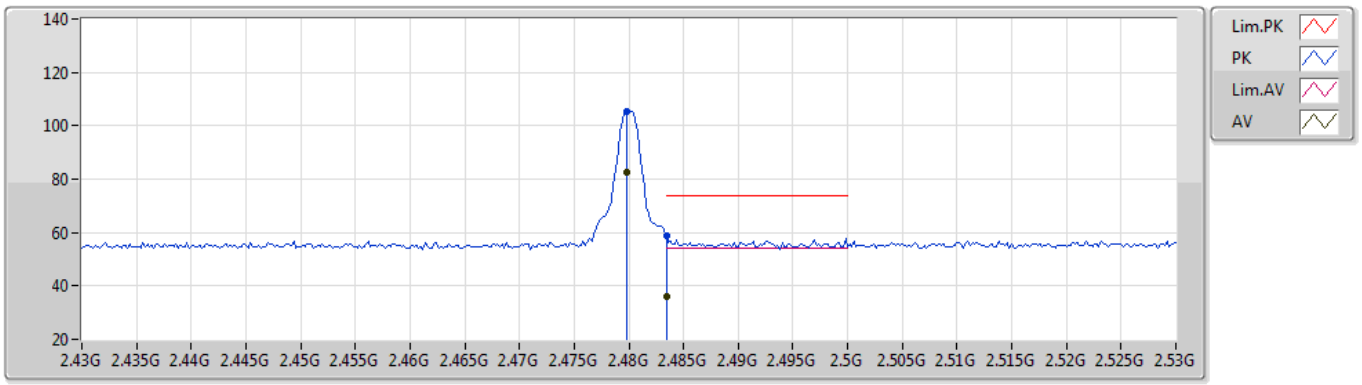


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.88022G	29.40	54.00	-24.60	1.65	3	Horizontal	35	1.03	-	27.75	31.24	5.34	34.93
PK	4.88022G	45.44	74.00	-28.56	1.65	3	Horizontal	35	1.03	-	43.79	31.24	5.34	34.93

BT-BR(1Mbps)

2480MHz_TX

16/09/2020

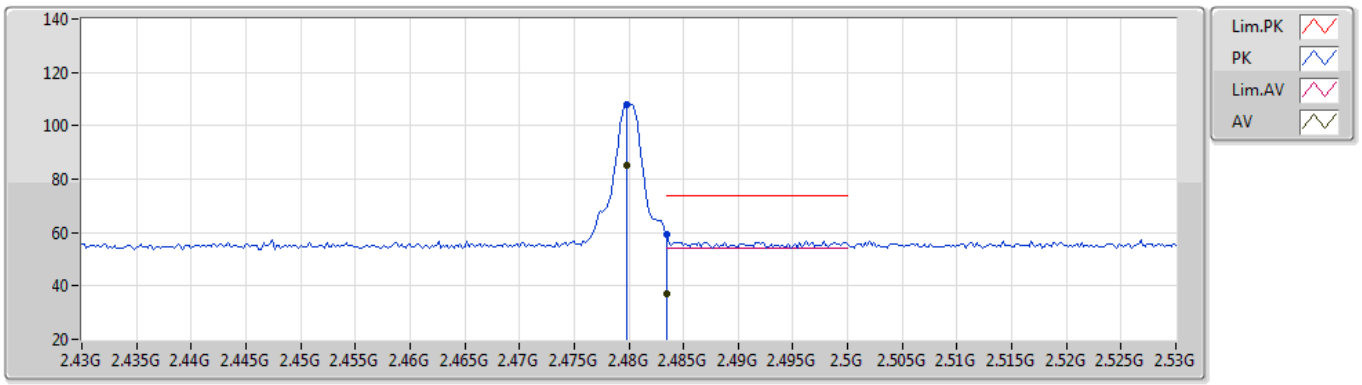


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4798G	82.76	Inf	-Inf	31.62	3	Vertical	69	1.03	-	51.14	27.60	4.02	-
AV	2.4835G	36.26	54.00	-17.74	31.63	3	Vertical	69	1.03	-	4.63	27.60	4.03	-
PK	2.4798G	105.26	Inf	-Inf	31.62	3	Vertical	69	1.03	-	73.64	27.60	4.02	-
PK	2.4835G	58.76	74.00	-15.24	31.63	3	Vertical	69	1.03	-	27.13	27.60	4.03	-

BT-BR(1Mbps)

16/09/2020

2480MHz_TX

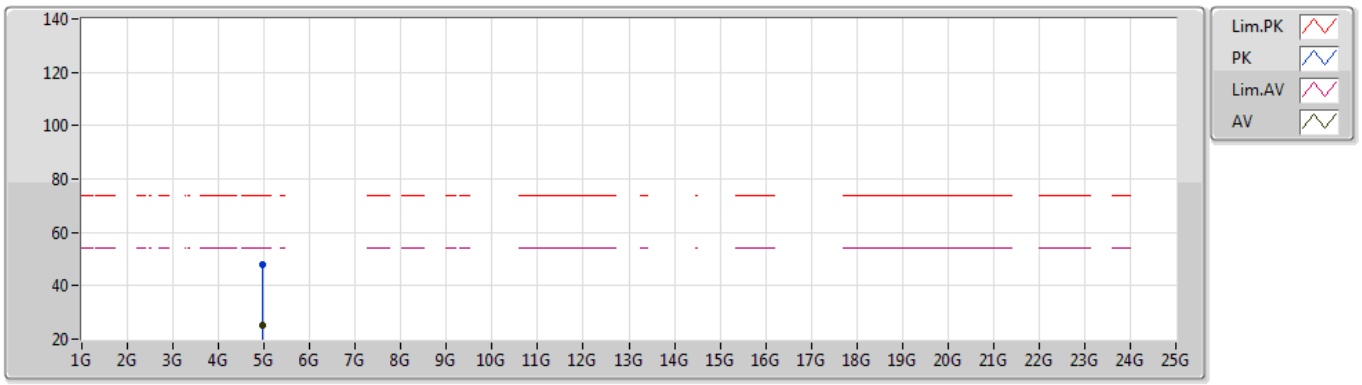


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4798G	85.34	Inf	-Inf	31.62	3	Horizontal	48	2.23	-	53.72	27.60	4.02	-
AV	2.4835G	36.91	54.00	-17.09	31.63	3	Horizontal	48	2.23	-	5.28	27.60	4.03	-
PK	2.4798G	107.84	Inf	-Inf	31.62	3	Horizontal	48	2.23	-	76.22	27.60	4.02	-
PK	2.4835G	59.41	74.00	-14.59	31.63	3	Horizontal	48	2.23	-	27.78	27.60	4.03	-

BT-BR(1Mbps)

16/09/2020

2480MHz_TX

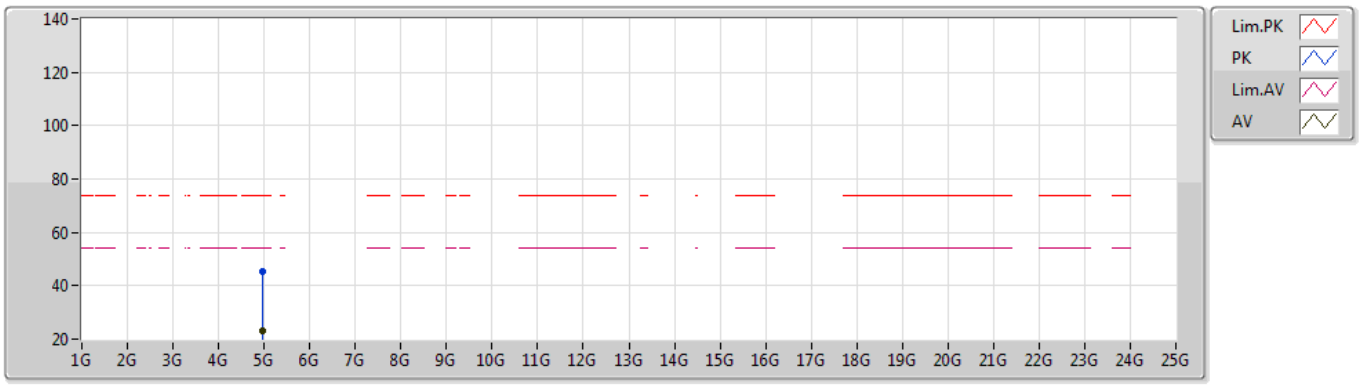


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9603G	25.29	54.00	-28.71	1.86	3	Vertical	58	1.00	-	23.43	31.42	5.38	34.94
PK	4.9603G	47.79	74.00	-26.21	1.86	3	Vertical	58	1.00	-	45.93	31.42	5.38	34.94

BT-BR(1Mbps)

2480MHz_TX

16/09/2020

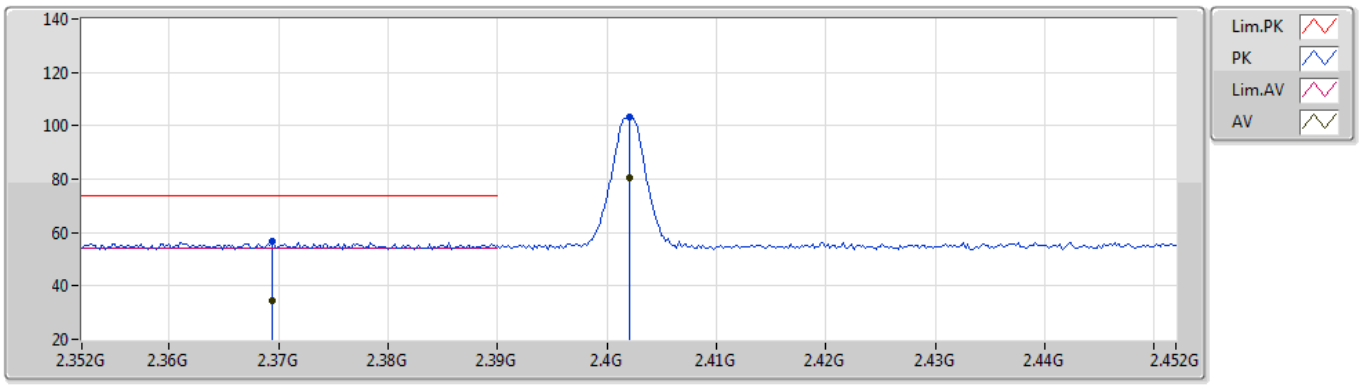


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.96032G	22.86	54.00	-31.14	1.86	3	Horizontal	41	1.00	-	21.00	31.42	5.38	34.94
PK	4.96032G	45.36	74.00	-28.64	1.86	3	Horizontal	41	1.00	-	43.50	31.42	5.38	34.94

BT-EDR(3Mbps)

17/09/2020

2402MHz_TX

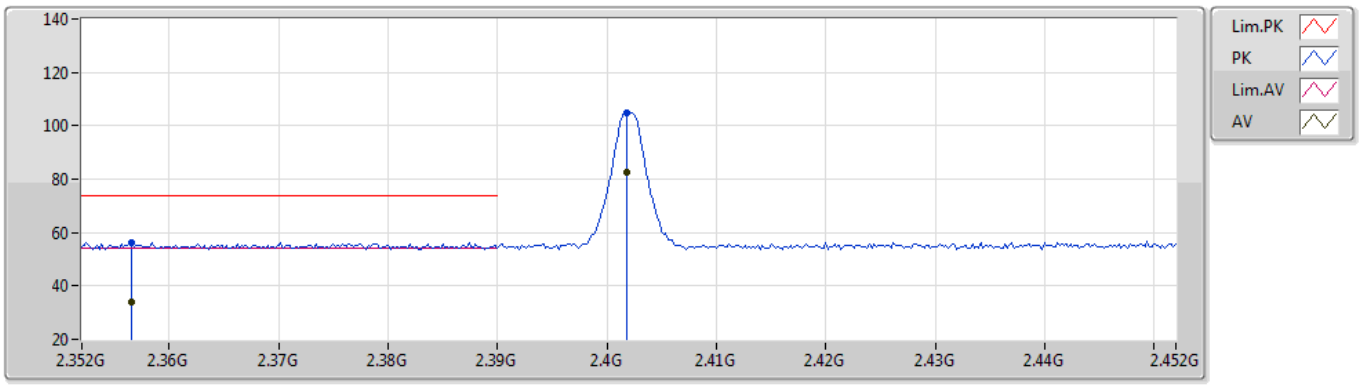


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3694G	34.23	54.00	-19.77	31.57	3	Vertical	79	2.00	-	2.66	27.72	3.85	-
AV	2.402G	80.56	Inf	-Inf	31.50	3	Vertical	79	2.00	-	49.06	27.60	3.90	-
PK	2.3694G	56.73	74.00	-17.27	31.57	3	Vertical	79	2.00	-	25.16	27.72	3.85	-
PK	2.402G	103.06	Inf	-Inf	31.50	3	Vertical	79	2.00	-	71.56	27.60	3.90	-

BT-EDR(3Mbps)

17/09/2020

2402MHz_TX

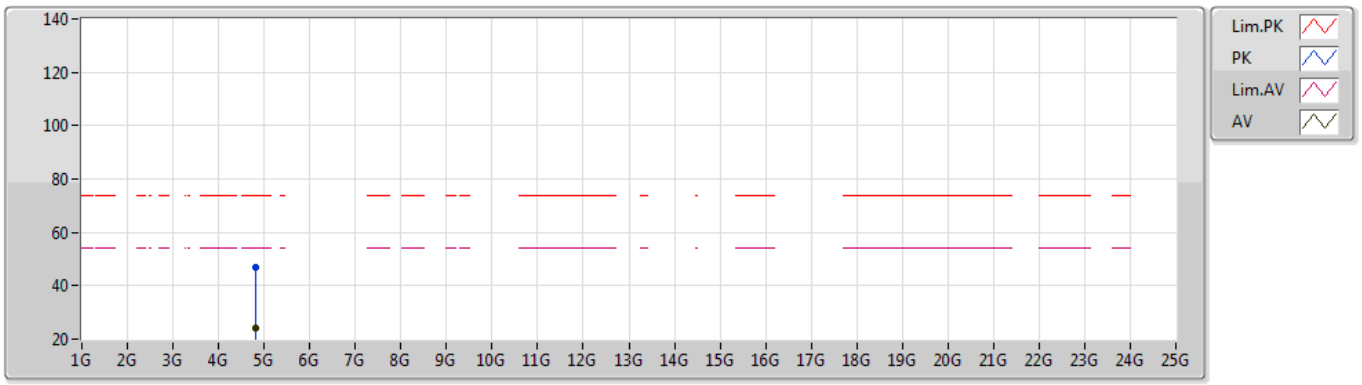


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3566G	33.85	54.00	-20.15	31.60	3	Horizontal	57	2.39	-	2.25	27.77	3.83	-
AV	2.4018G	82.51	Inf	-Inf	31.50	3	Horizontal	57	2.39	-	51.01	27.60	3.90	-
PK	2.3566G	56.35	74.00	-17.65	31.60	3	Horizontal	57	2.39	-	24.75	27.77	3.83	-
PK	2.4018G	105.01	Inf	-Inf	31.50	3	Horizontal	57	2.39	-	73.51	27.60	3.90	-

BT-EDR(3Mbps)

16/09/2020

2402MHz_TX

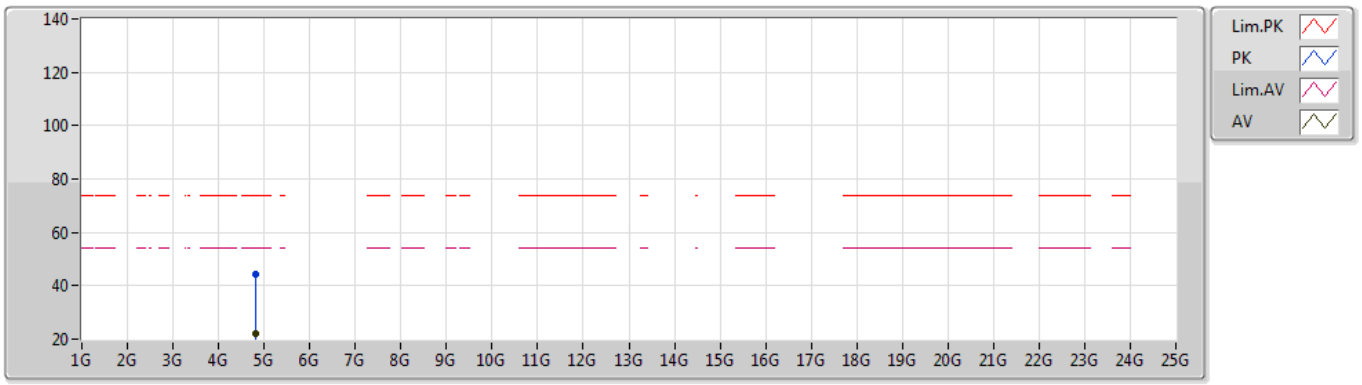


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80369G	24.33	54.00	-29.67	1.48	3	Vertical	56	1.02	-	22.85	31.11	5.30	34.93
PK	4.80369G	46.83	74.00	-27.17	1.48	3	Vertical	56	1.02	-	45.35	31.11	5.30	34.93

BT-EDR(3Mbps)

16/09/2020

2402MHz_TX

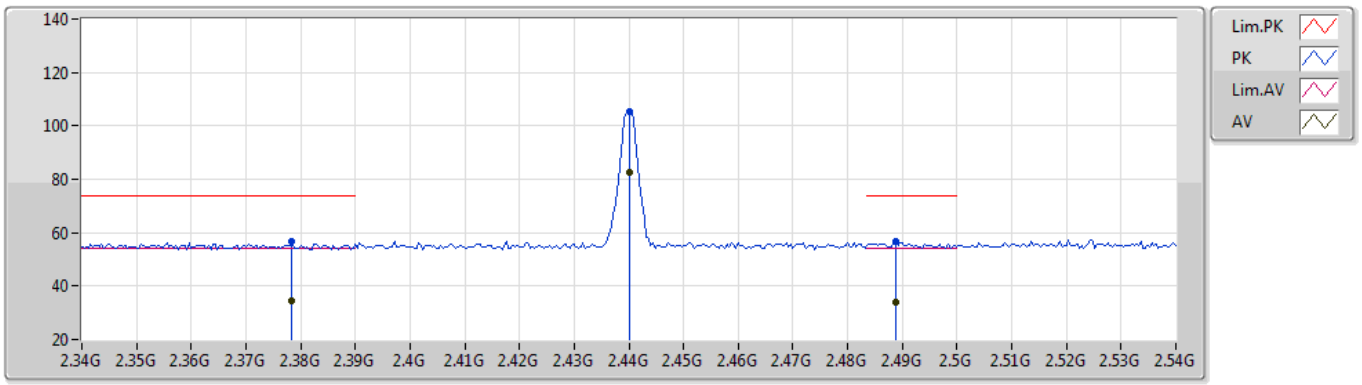


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.8032G	22.00	54.00	-32.00	1.48	3	Horizontal	42	1.26	-	20.52	31.11	5.30	34.93
PK	4.8032G	44.50	74.00	-29.50	1.48	3	Horizontal	42	1.26	-	43.02	31.11	5.30	34.93

BT-EDR(3Mbps)

17/09/2020

2440MHz_TX

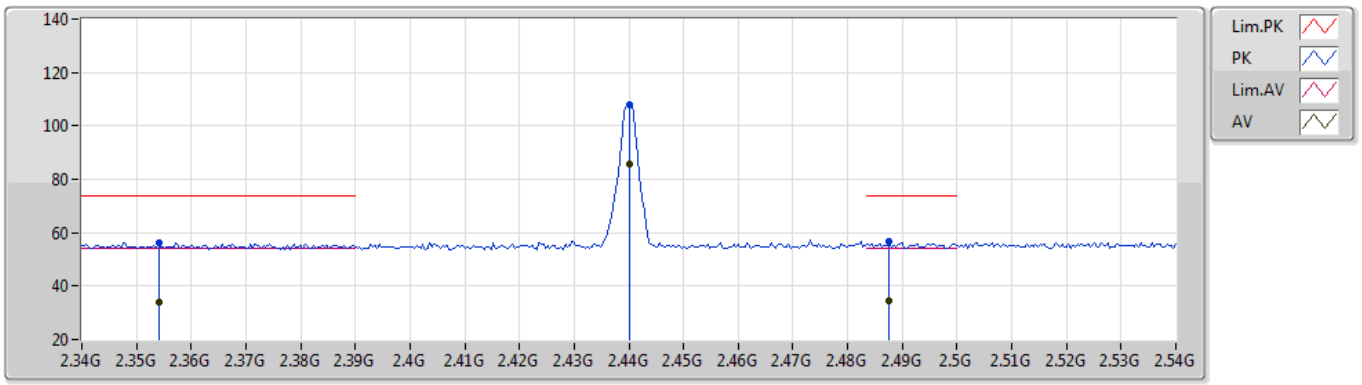


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3784G	34.47	54.00	-19.53	31.56	3	Vertical	71	1.28	-	2.91	27.69	3.87	-
AV	2.44G	82.78	Inf	-Inf	31.56	3	Vertical	71	1.28	-	51.22	27.60	3.96	-
AV	2.4888G	34.16	54.00	-19.84	31.63	3	Vertical	71	1.28	-	2.53	27.60	4.03	-
PK	2.3784G	56.97	74.00	-17.03	31.56	3	Vertical	71	1.28	-	25.41	27.69	3.87	-
PK	2.44G	105.28	Inf	-Inf	31.56	3	Vertical	71	1.28	-	73.72	27.60	3.96	-
PK	2.4888G	56.66	74.00	-17.34	31.63	3	Vertical	71	1.28	-	25.03	27.60	4.03	-

BT-EDR(3Mbps)

17/09/2020

2440MHz_TX

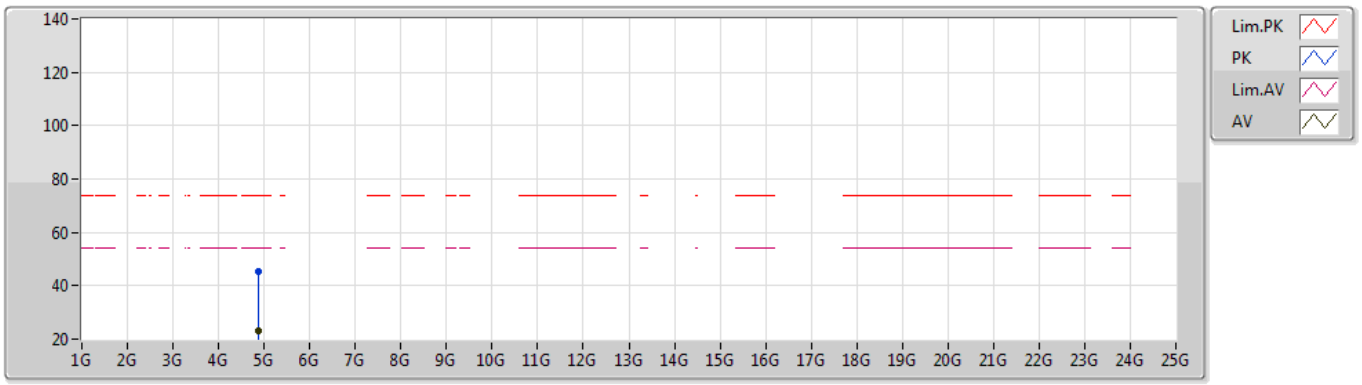


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.354G	33.88	54.00	-20.12	31.61	3	Horizontal	42	2.37	-	2.27	27.78	3.83	-
AV	2.44G	85.54	Inf	-Inf	31.56	3	Horizontal	42	2.37	-	53.98	27.60	3.96	-
AV	2.4876G	34.43	54.00	-19.57	31.63	3	Horizontal	42	2.37	-	2.80	27.60	4.03	-
PK	2.354G	56.38	74.00	-17.62	31.61	3	Horizontal	42	2.37	-	24.77	27.78	3.83	-
PK	2.44G	108.04	Inf	-Inf	31.56	3	Horizontal	42	2.37	-	76.48	27.60	3.96	-
PK	2.4876G	56.93	74.00	-17.07	31.63	3	Horizontal	42	2.37	-	25.30	27.60	4.03	-

BT-EDR(3Mbps)

17/09/2020

2440MHz_TX

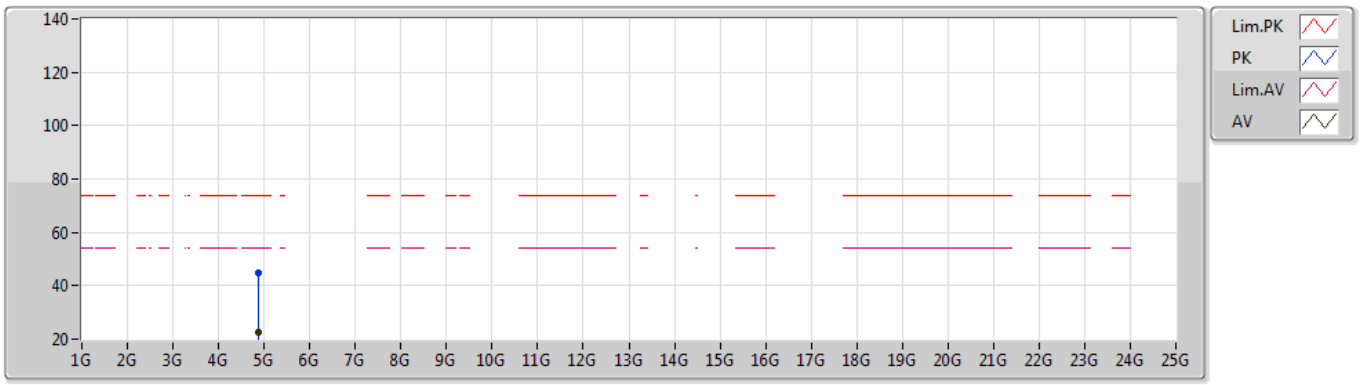


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.88014G	23.00	54.00	-31.00	1.65	3	Vertical	56	1.15	-	21.35	31.24	5.34	34.93
PK	4.88014G	45.50	74.00	-28.50	1.65	3	Vertical	56	1.15	-	43.85	31.24	5.34	34.93

BT-EDR(3Mbps)

2440MHz_TX

16/09/2020

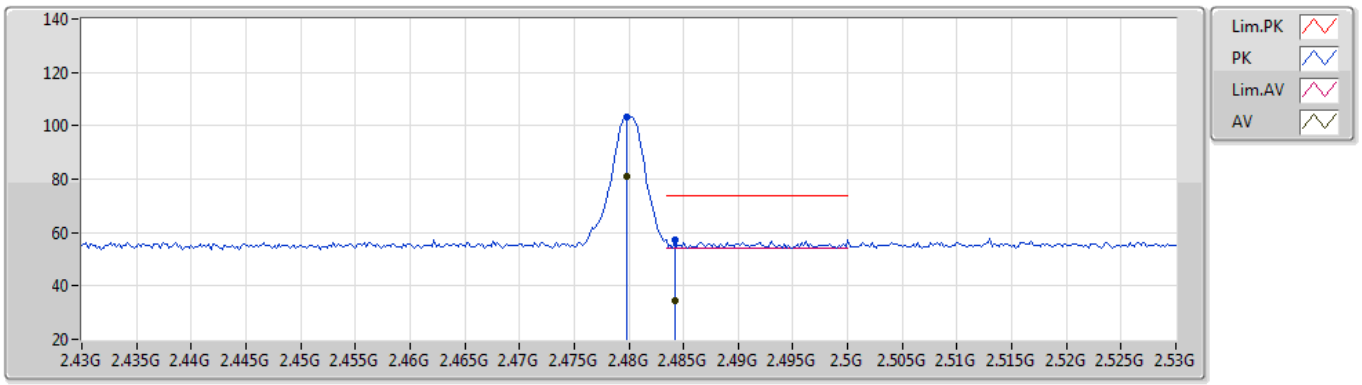


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87938G	22.35	54.00	-31.65	1.65	3	Horizontal	43	1.21	-	20.70	31.24	5.34	34.93
PK	4.87938G	44.85	74.00	-29.15	1.65	3	Horizontal	43	1.21	-	43.20	31.24	5.34	34.93

BT-EDR(3Mbps)

2480MHz_TX

17/09/2020

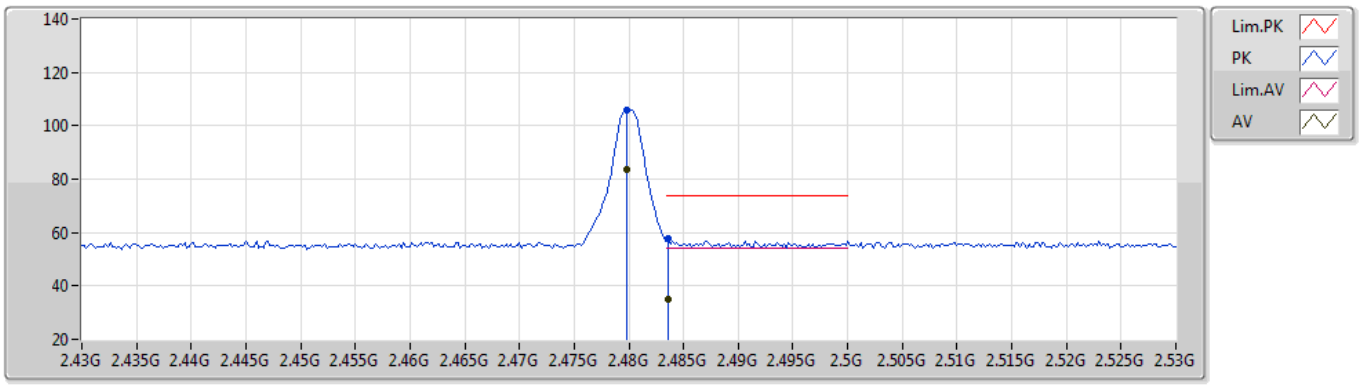


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4798G	80.93	Inf	-Inf	31.62	3	Vertical	69	1.03	-	49.31	27.60	4.02	-
AV	2.4842G	34.68	54.00	-19.32	31.63	3	Vertical	69	1.03	-	3.05	27.60	4.03	-
PK	2.4798G	103.43	Inf	-Inf	31.62	3	Vertical	69	1.03	-	71.81	27.60	4.02	-
PK	2.4842G	57.18	74.00	-16.82	31.63	3	Vertical	69	1.03	-	25.55	27.60	4.03	-

BT-EDR(3Mbps)

2480MHz_TX

17/09/2020

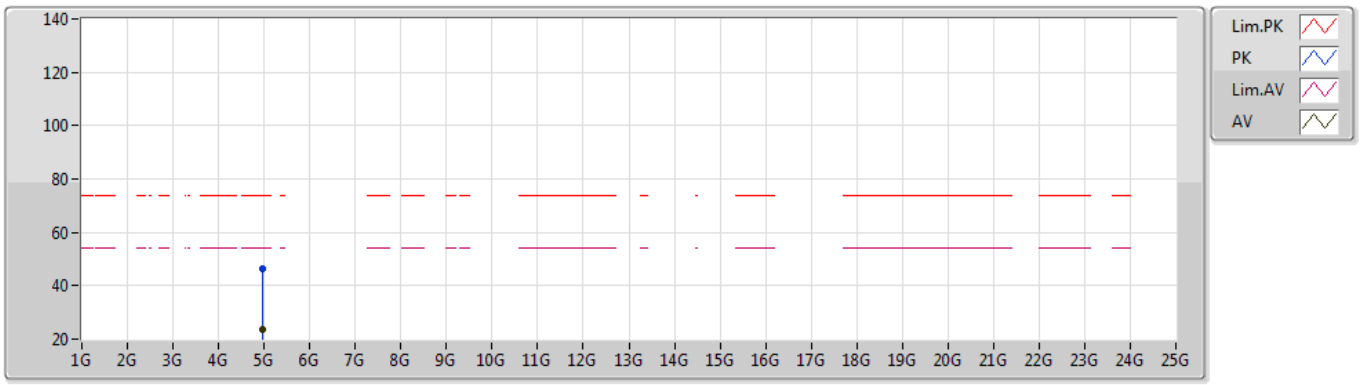


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4798G	83.47	Inf	-Inf	31.62	3	Horizontal	47	2.23	-	51.85	27.60	4.02	-
AV	2.4836G	35.03	54.00	-18.97	31.63	3	Horizontal	47	2.23	-	3.40	27.60	4.03	-
PK	2.4798G	105.97	Inf	-Inf	31.62	3	Horizontal	47	2.23	-	74.35	27.60	4.02	-
PK	2.4836G	57.53	74.00	-16.47	31.63	3	Horizontal	47	2.23	-	25.90	27.60	4.03	-

BT-EDR(3Mbps)

2480MHz_TX

17/09/2020

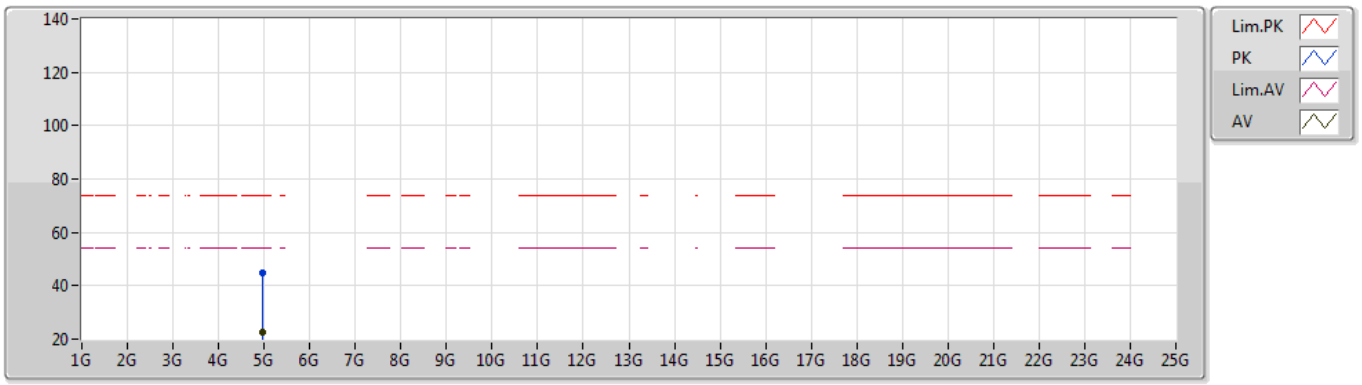


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.96004G	23.86	54.00	-30.14	1.86	3	Vertical	58	1.13	-	22.00	31.42	5.38	34.94
PK	4.96004G	46.36	74.00	-27.64	1.86	3	Vertical	58	1.13	-	44.50	31.42	5.38	34.94

BT-EDR(3Mbps)

17/09/2020

2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.96004G	22.52	54.00	-31.48	1.86	3	Horizontal	29	1.00	-	20.66	31.42	5.38	34.94
PK	4.96004G	45.02	74.00	-28.98	1.86	3	Horizontal	29	1.00	-	43.16	31.42	5.38	34.94