

FCC Test Report

FCC ID : 2AEUPBHALP012
Equipment : Video Doorbell Pro
Brand Name : RING LLC
Model Name : Video Doorbell Pro
Applicant : Ring LLC
1523 26th St, Santa Monica, CA 90404, USA
Manufacturer : Chicony Electronics Co., Ltd
36F., No.69, Sec. 2, Guangfu Rd., Sanchong Dist., New
Taipei City 241, Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.247

The product was received on May 06, 2020, and testing was started from May 07, 2020 and completed on Jul. 03, 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



History of this test report

Report No.	Version	Description	Issued Date
FR042505AD	01	Initial issue of report	Nov. 25, 2020



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 $\pi/4$ -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.	Port	Brand	Model Name	Antenna Type	Connector
1	1	-	Ring Wifi Antenna	PIFA Antenna	Fixed on board

2.4G		5G		BT	
Frequency (MHz)	Gain (dBi)	Frequency (MHz)	Gain (dBi)	Frequency (MHz)	Gain (dBi)
2412	1.37	5180	1.4	2402	1.37
2417	1.37	5190	1.4	2440 / 2441	1.08
2422	1.37	5200	1.4	2480	1.09
2427	1.08	5230	2.5	-	-
2432	1.08	5240	2.5	-	-
2437	1.08	5250	2.93	-	-
2442	1.08	5260	2.93	-	-
2447	1.08	5270	2.93	-	-
2452	1.08	5280	2.93	-	-
2457	1.08	5310	2.45	-	-
2462	1.08	5320	2.45	-	-
-	-	5350	2.45	-	-
-	-	5470	2.75	-	-
-	-	5500	2.75	-	-
-	-	5510	2.75	-	-
-	-	5600	2.79	-	-
-	-	5670	2.52	-	-
-	-	5700	2.52	-	-
-	-	5725	2.52	-	-
-	-	5745	3.12	-	-
-	-	5755	3.12	-	-
-	-	5785	2.65	-	-
-	-	5795	2.65	-	-
-	-	5825	1.67	-	-

For 2.4 GHz function:

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

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

For 5 GHz function:

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

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

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

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

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From Battery / Transformer
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)	0.324	4.89	409.375u	3k
BT-EDR(2Mbps)	0.664	1.78	1.666m	1k
BT-EDR(3Mbps)	0.773	1.12	2.92m	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 checked="" 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	21.3~24.4°C / 68~71%	22/May/2020
RF Conducted	TH06-HY	Raven	22.8~24.3°C / 53~68%	07/May/2020~03/Jul/2020
Radiated <Below 1G>	03CH09-HY	Lego	21.4~21.8°C / 59~66%	20/May/2020
Radiated <Above 1G>	03CH02-HY	Lego	21.6~22.1°C / 58~63%	16/May/2020~01/Jun/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	Microsoft Windows v6.1
-----------------------	------------------------

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	67
2417MHz	68
2437MHz	88
2457MHz	63
2462MHz	62
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	52
2417MHz	69
2437MHz	70
2457MHz	64
2462MHz	54
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	60
2417MHz	64
2437MHz	69
2457MHz	61
2462MHz	56

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	Transformer 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	Transformer mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

2.4 Accessories

Accessories				
Battery	Brand Name	Fellotech	Model Name	FT602025P
	Power Rating	3.7 Vdc, 240mAh	Type	Li-Po

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

2.5 Support Equipment

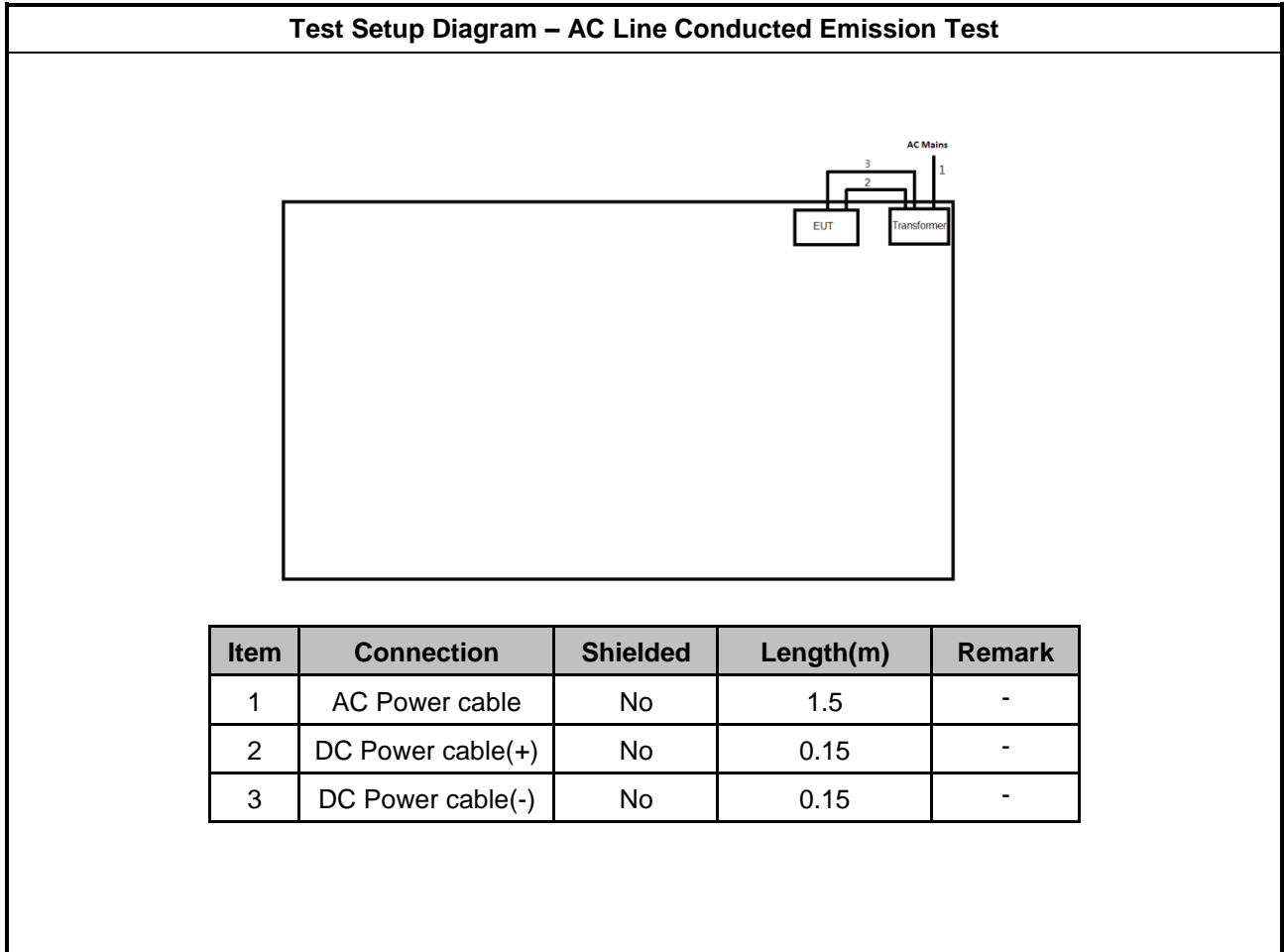
Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Transformer	TRIAD	VPL16-1600	-	-

Note.Support equipment No.1 was provided by customer.

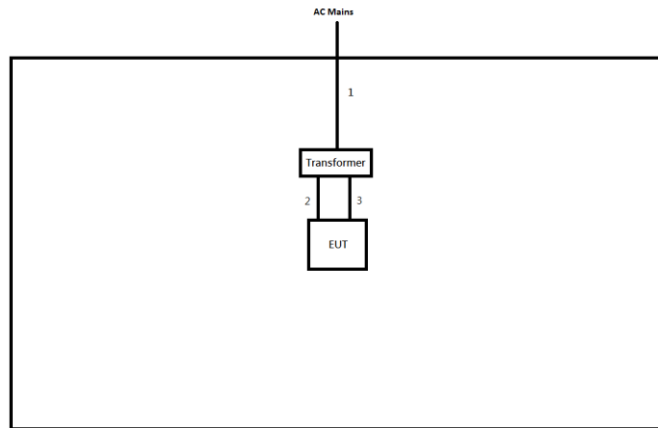
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Transformer	TRIAD	VPL16-1600	-	-

Note.Support equipment No.3 was provided by customer.

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable(+)	No	0.15	-
3	DC Power cable(-)	No	0.15	-

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

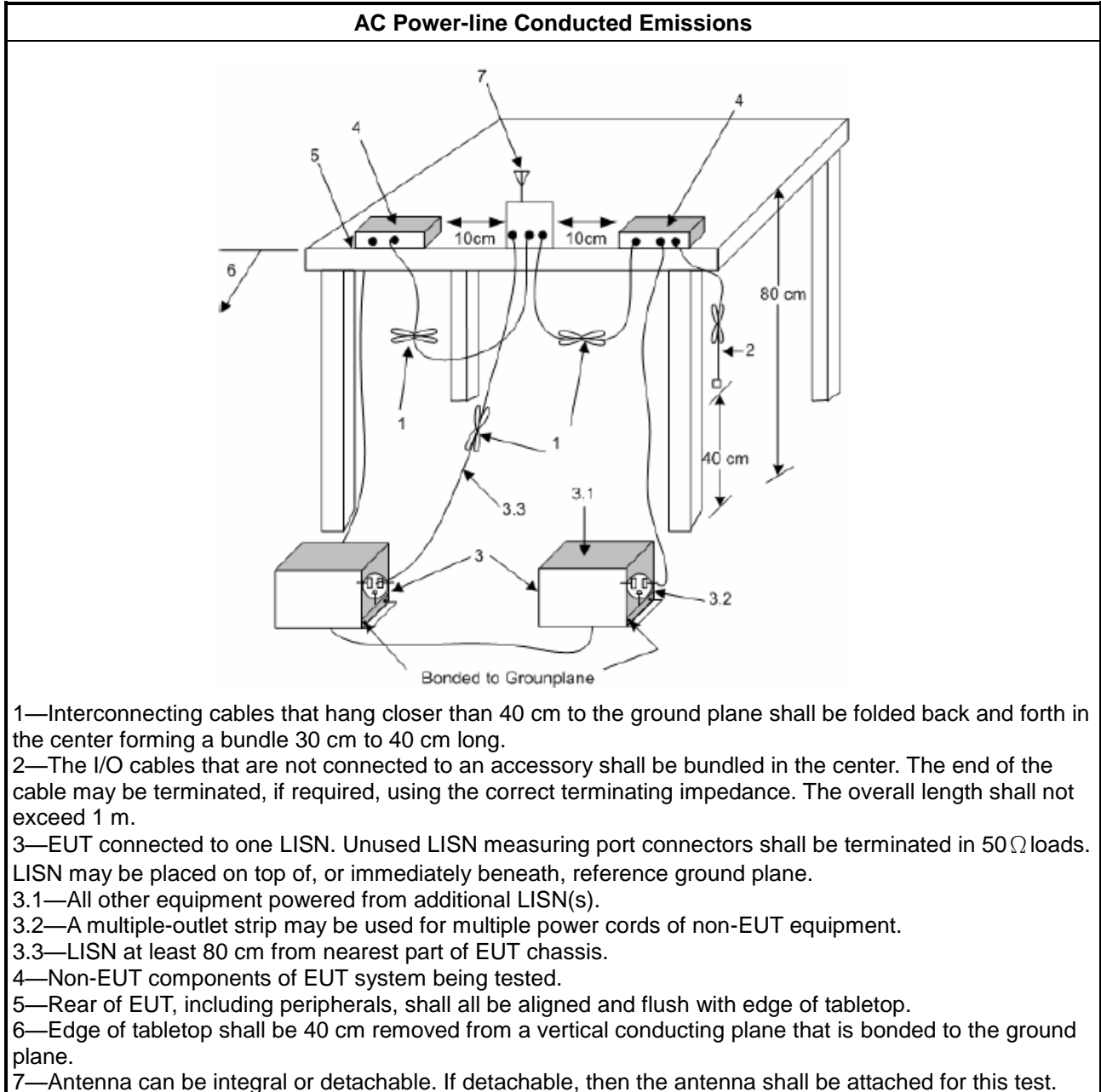
Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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	

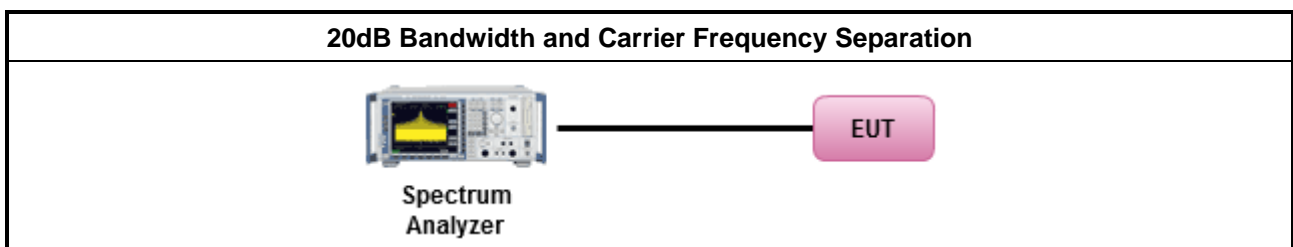
3.2.2 Measuring Instruments

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	

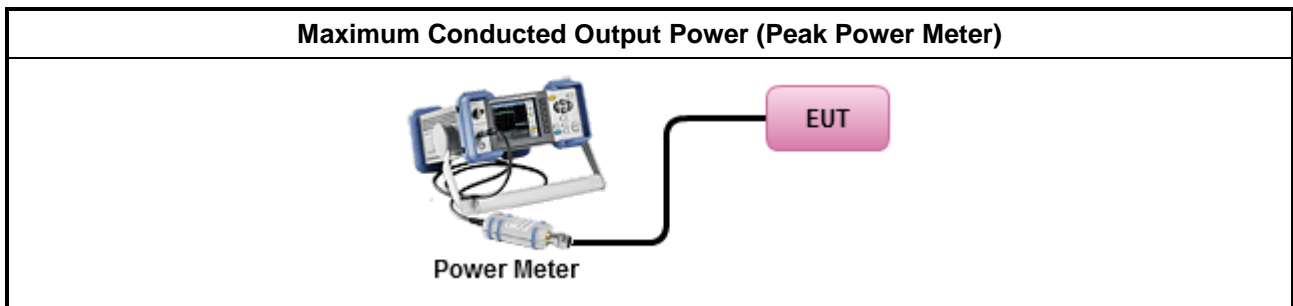
3.3.2 Measuring Instruments

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

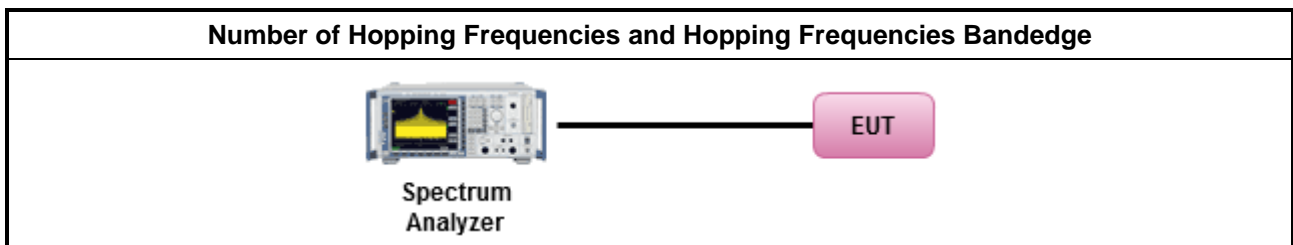
3.4.3 Measuring Instruments

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	

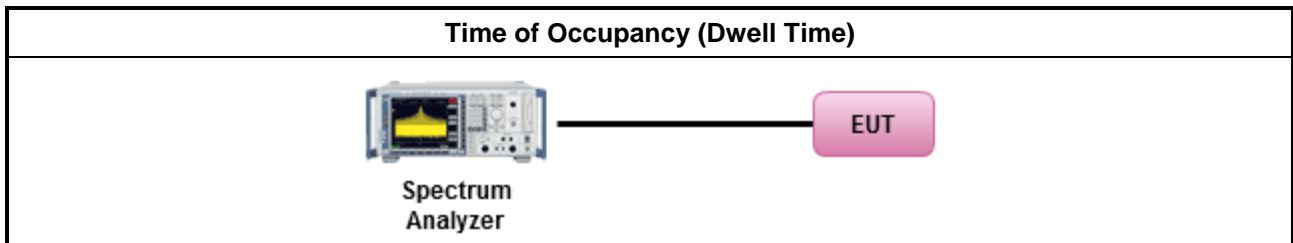
3.5.2 Measuring Instruments

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.	

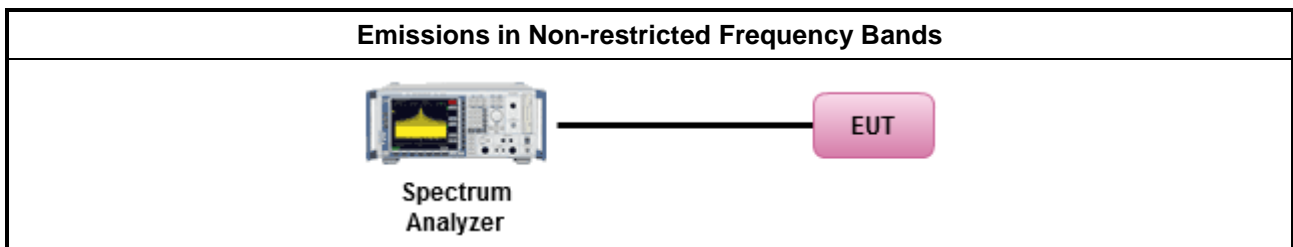
3.6.2 Measuring Instruments

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

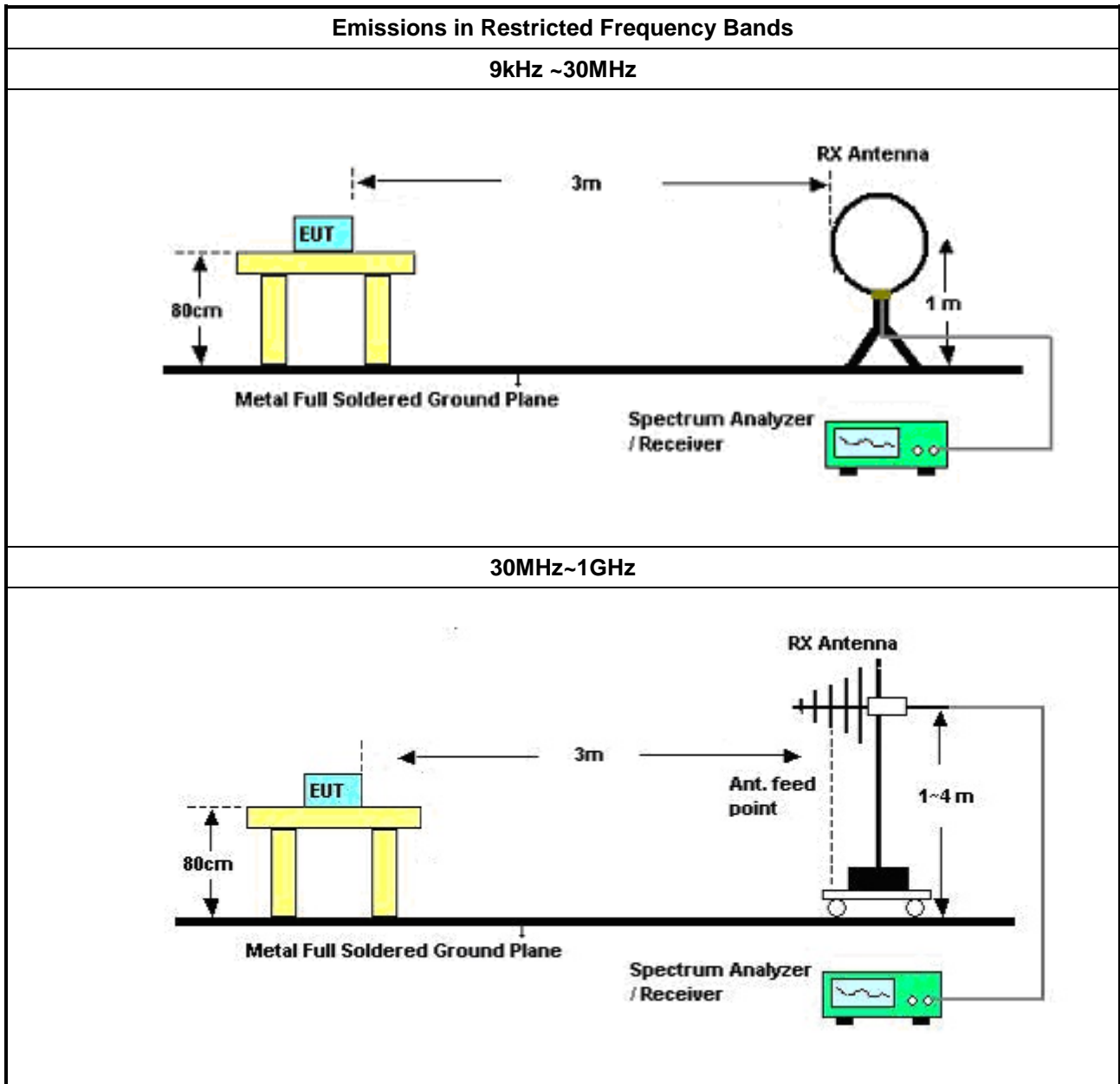
Test Method	
<ul style="list-style-type: none">The average emission levels shall be measured in [hopping duty factor].	
<ul style="list-style-type: none">Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed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

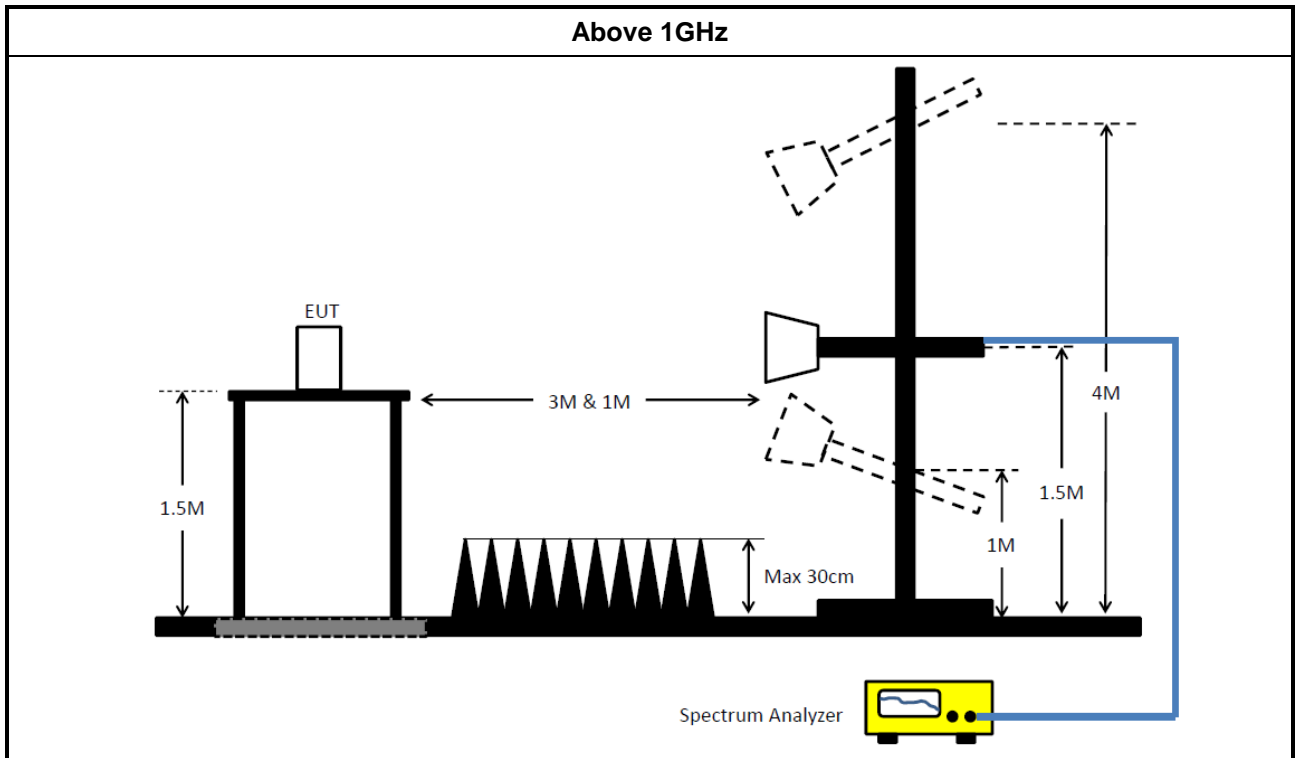
3.7.4 Measurement Results Calculation

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
EMC Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	28/May/2019	27/May/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	05/Nov/2019	04/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	23/Sep/2019	22/Sep/2020
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBEC K	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	24/Sep/2019	23/Sep/2020

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 (03CH02-HY)**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	29/Aug/2019	28/Aug/2020
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	16/Oct/2019	15/Oct/2020
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	27/Feb/2020	26/Feb/2021
RF Cable-high	SUHNER	SUCOFLEX104	805193/4+ 805192/4	1GHz~40GHz	08/Apr/2020	07/Apr/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	10/Mar/2020	09/Mar/2021

Instrument for Radiated Test (03CH09-HY)

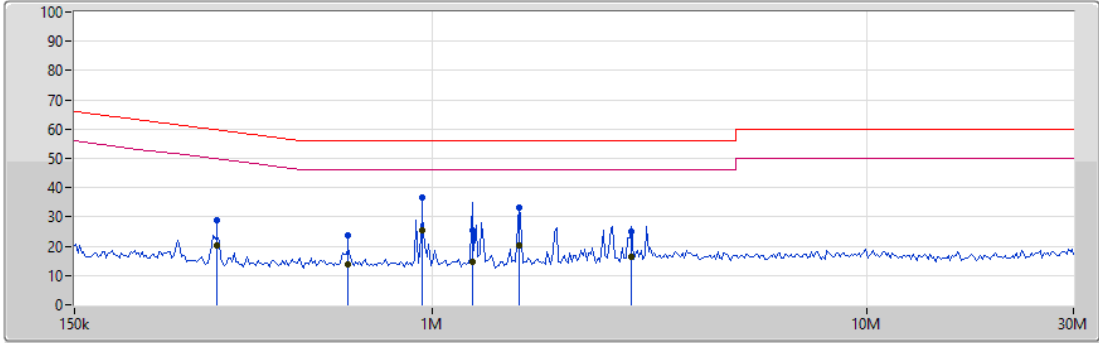
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz	27/Mar/2020	26/Mar/2021
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	14/Apr/2020	13/Apr/2021
EMC Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	28/May/2019	27/May/2020
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	07/Aug/2019	06/Aug/2020
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	30/Sep/2019	29/Sep/2020
Loop Antenna	TESEQ	HLA 6120	31244	9kHz-30MHz	16/Mar/2020	15/Mar/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~1GHz	12/Feb/2020	11/Feb/2021



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Transformer mode		

22/05/2020



Legend for the graph:

- Lim.PK: Red line with a peak symbol
- PK: Blue line with a peak symbol
- Lim.AV: Red line with a valley symbol
- AV: Blue line with a valley symbol

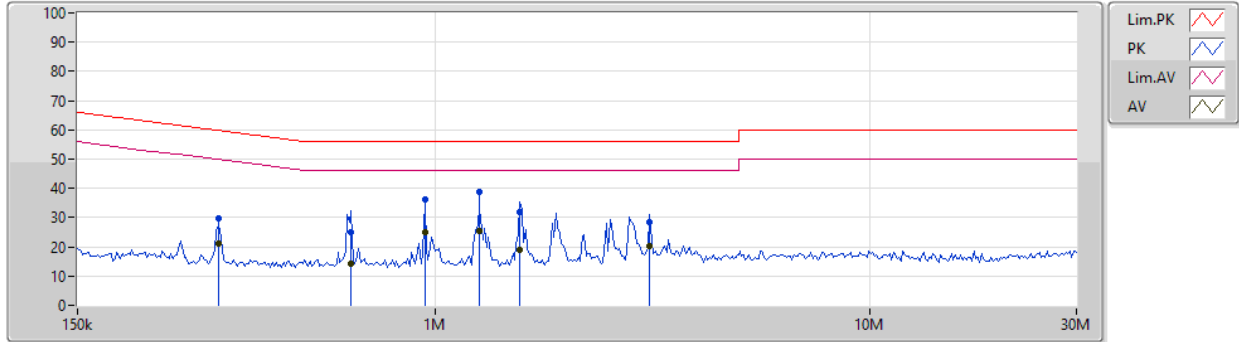
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	319.533k	29.04	59.71	-30.67	19.62	Neutral	-	9.42	9.63	0.12	9.87
AV	319.533k	20.43	49.71	-29.28	19.62	Neutral	-	0.81	9.63	0.12	9.87
QP	641.227k	23.89	56.00	-32.11	19.62	Neutral	-	4.27	9.63	0.12	9.87
AV	641.227k	13.67	46.00	-32.33	19.62	Neutral	-	-5.95	9.63	0.12	9.87
QP	945.247k	36.56	56.00	-19.44	19.62	Neutral	"Worst"	16.94	9.63	0.11	9.88
AV	945.247k	25.27	46.00	-20.73	19.62	Neutral	-	5.65	9.63	0.11	9.88
QP	1.237M	25.52	56.00	-30.48	19.64	Neutral	-	5.88	9.64	0.12	9.88
AV	1.237M	14.50	46.00	-31.50	19.64	Neutral	-	-5.14	9.64	0.12	9.88
QP	1.586M	33.36	56.00	-22.64	19.65	Neutral	-	13.71	9.64	0.14	9.87
AV	1.586M	20.10	46.00	-25.90	19.65	Neutral	-	0.45	9.64	0.14	9.87
QP	2.881M	24.88	56.00	-31.12	19.71	Neutral	-	5.17	9.66	0.17	9.88
AV	2.881M	16.28	46.00	-29.72	19.71	Neutral	-	-3.43	9.66	0.17	9.88



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Transformer mode		

22/05/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	316.369k	29.70	59.80	-30.10	19.63	Line	-	10.07	9.64	0.12	9.87
AV	316.369k	21.19	49.80	-28.61	19.63	Line	-	1.56	9.64	0.12	9.87
QP	641.227k	24.81	56.00	-31.19	19.63	Line	-	5.18	9.64	0.12	9.87
AV	641.227k	14.11	46.00	-31.89	19.63	Line	-	-5.52	9.64	0.12	9.87
QP	945.247k	36.21	56.00	-19.79	19.63	Line	-	16.58	9.64	0.11	9.88
AV	945.247k	25.02	46.00	-20.98	19.63	Line	-	5.39	9.64	0.11	9.88
QP	1.261M	38.80	56.00	-17.20	19.64	Line	"Worst"	19.16	9.64	0.12	9.88
AV	1.261M	25.47	46.00	-20.53	19.64	Line	-	5.83	9.64	0.12	9.88
QP	1.57M	31.92	56.00	-24.08	19.66	Line	-	12.26	9.65	0.14	9.87
AV	1.57M	19.06	46.00	-26.94	19.66	Line	-	-0.60	9.65	0.14	9.87
QP	3.12M	28.60	56.00	-27.40	19.71	Line	-	8.89	9.66	0.17	9.88
AV	3.12M	20.25	46.00	-25.75	19.71	Line	-	0.54	9.66	0.17	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)	922.5k	886.557k	887KF1D	916.25k	881.559k
BT-EDR(2Mbps)	1.336M	1.216M	1M22G1D	1.334M	1.214M
BT-EDR(3Mbps)	1.288M	1.222M	1M22G1D	1.285M	1.219M

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

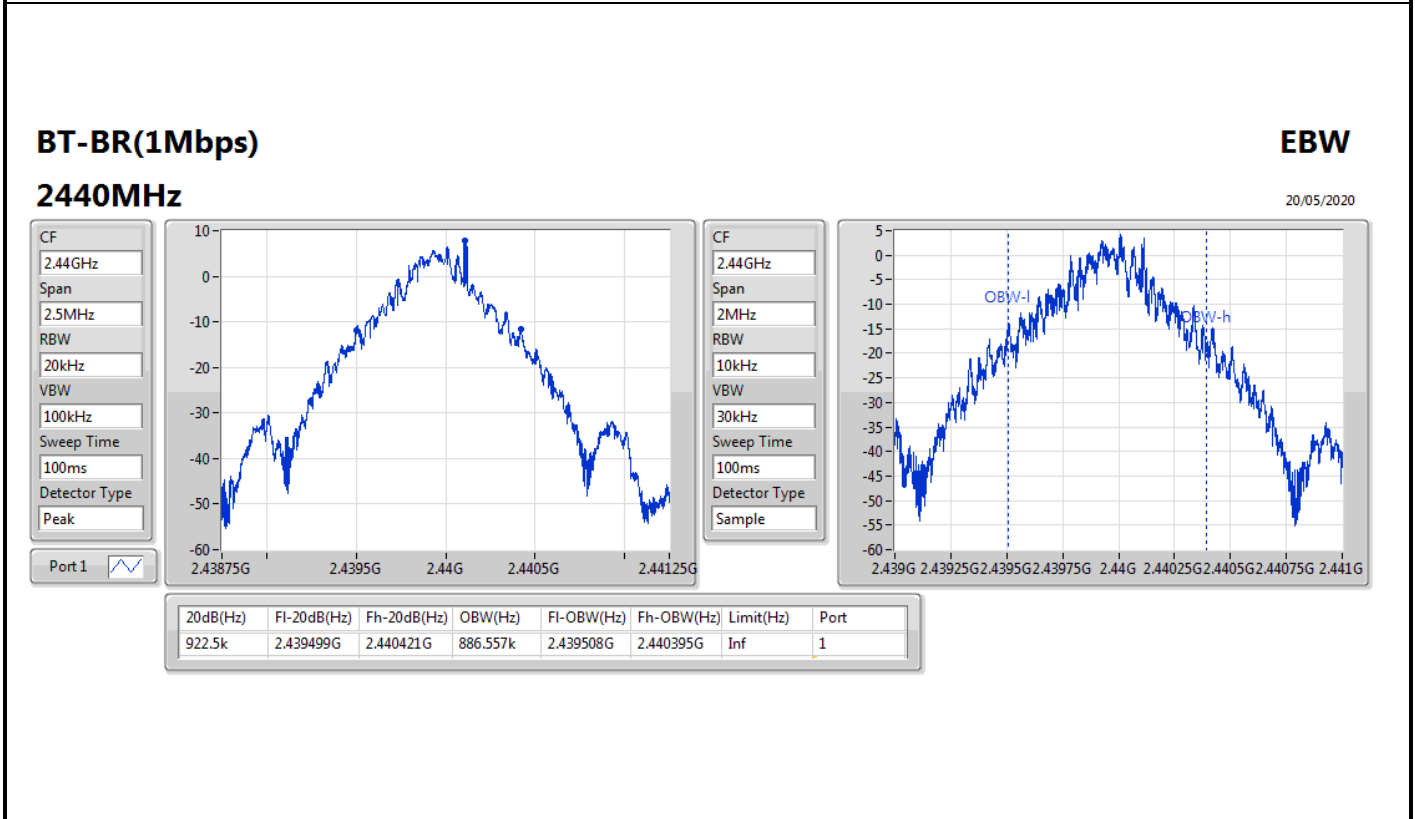
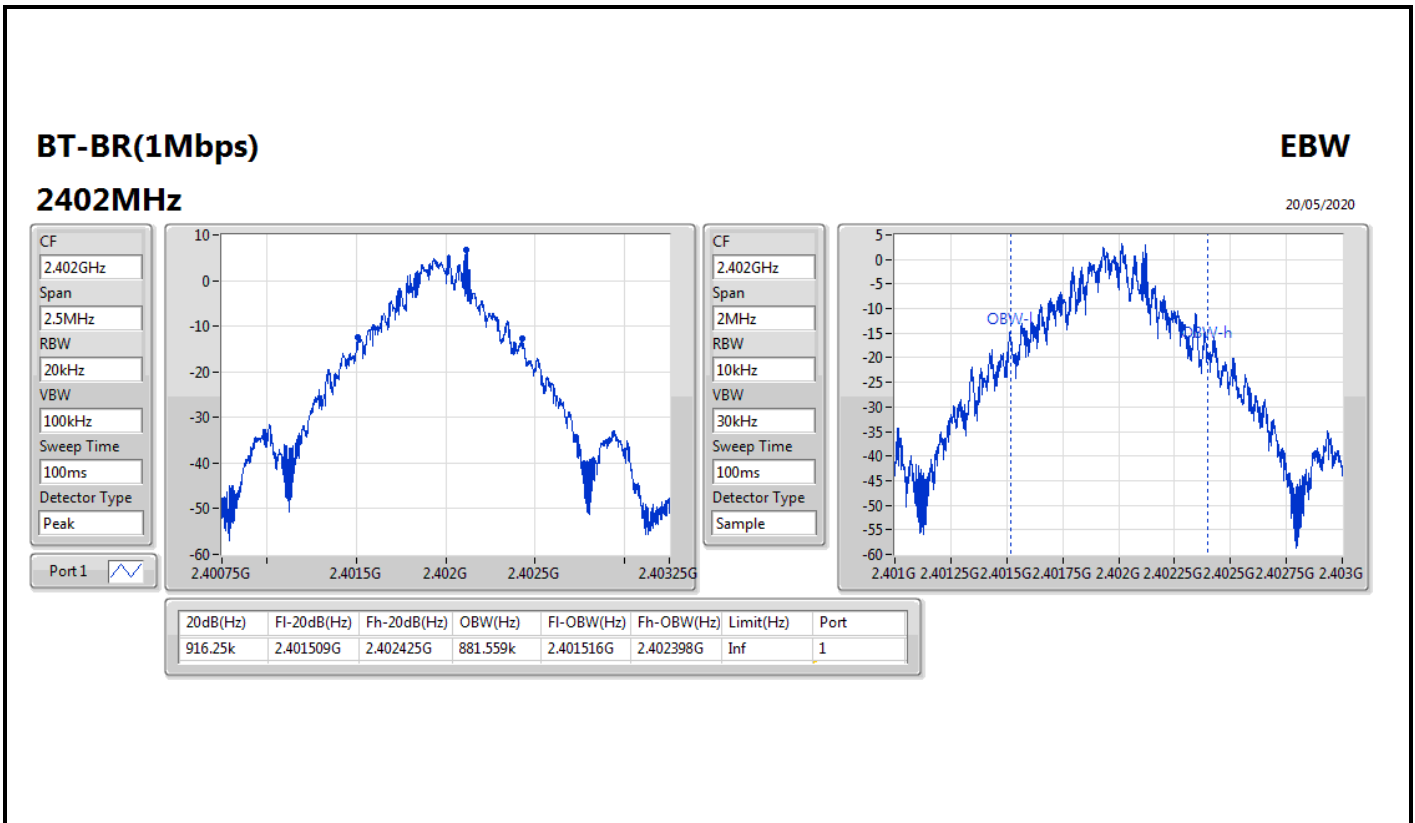
Min-N dB = Minimum 20dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

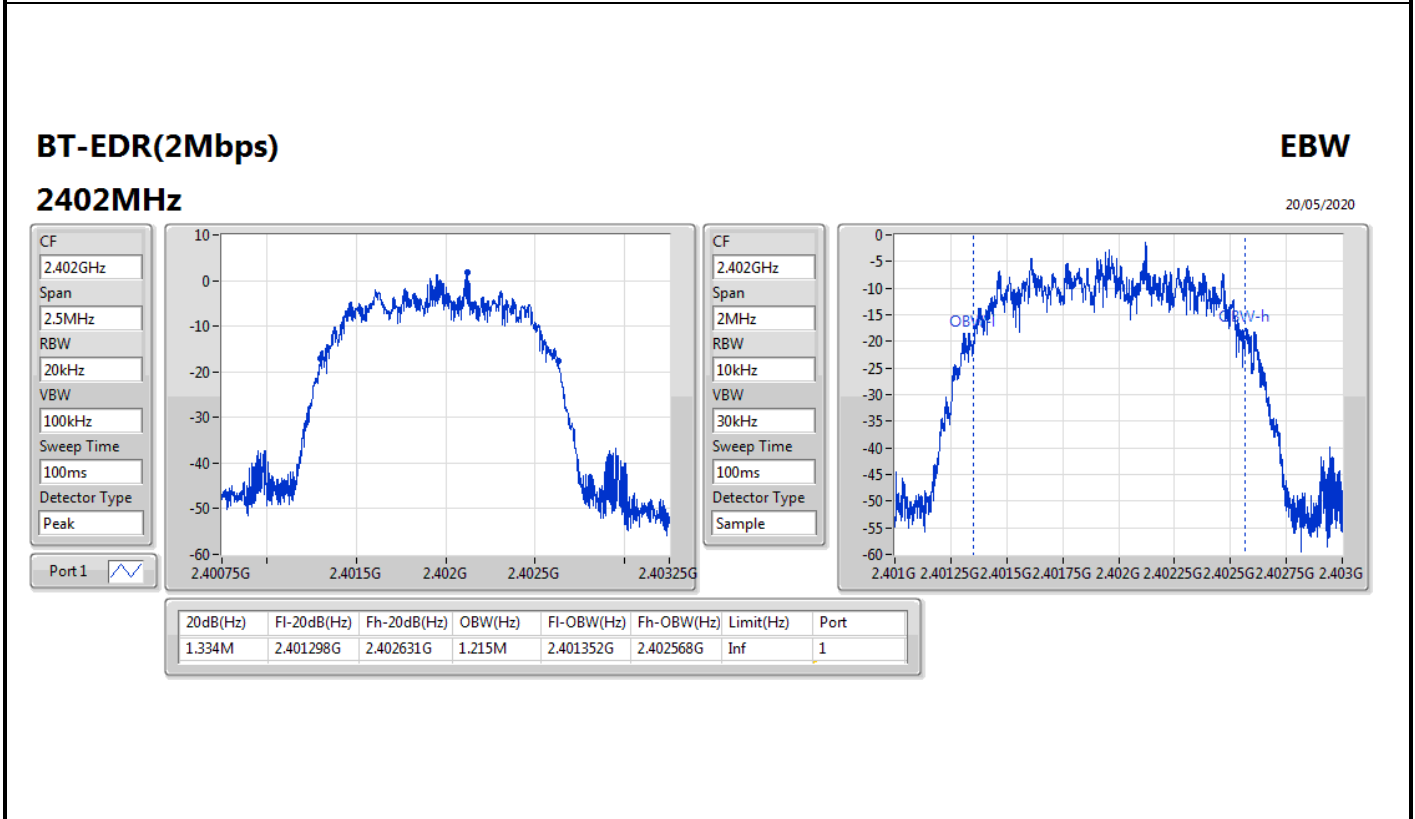
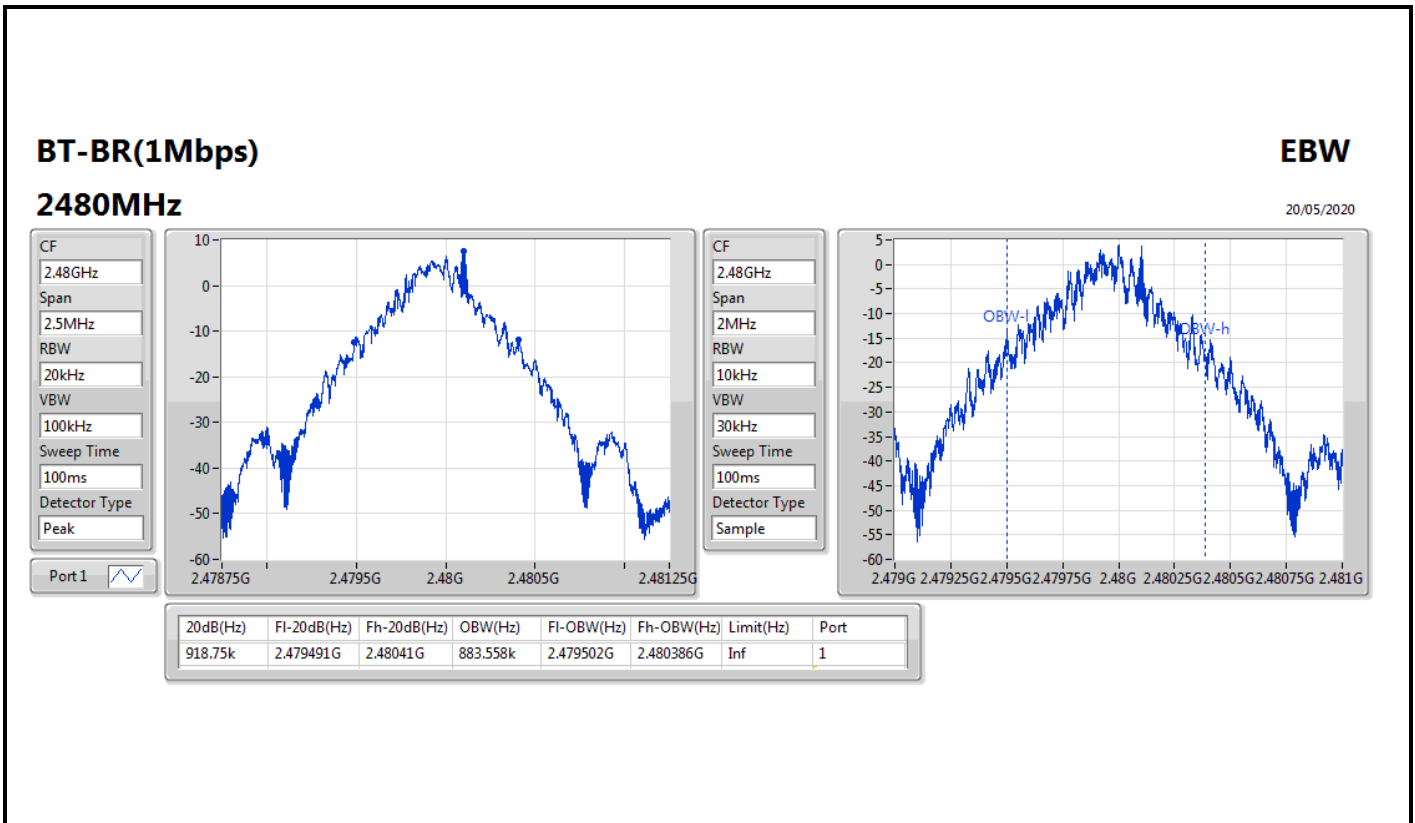


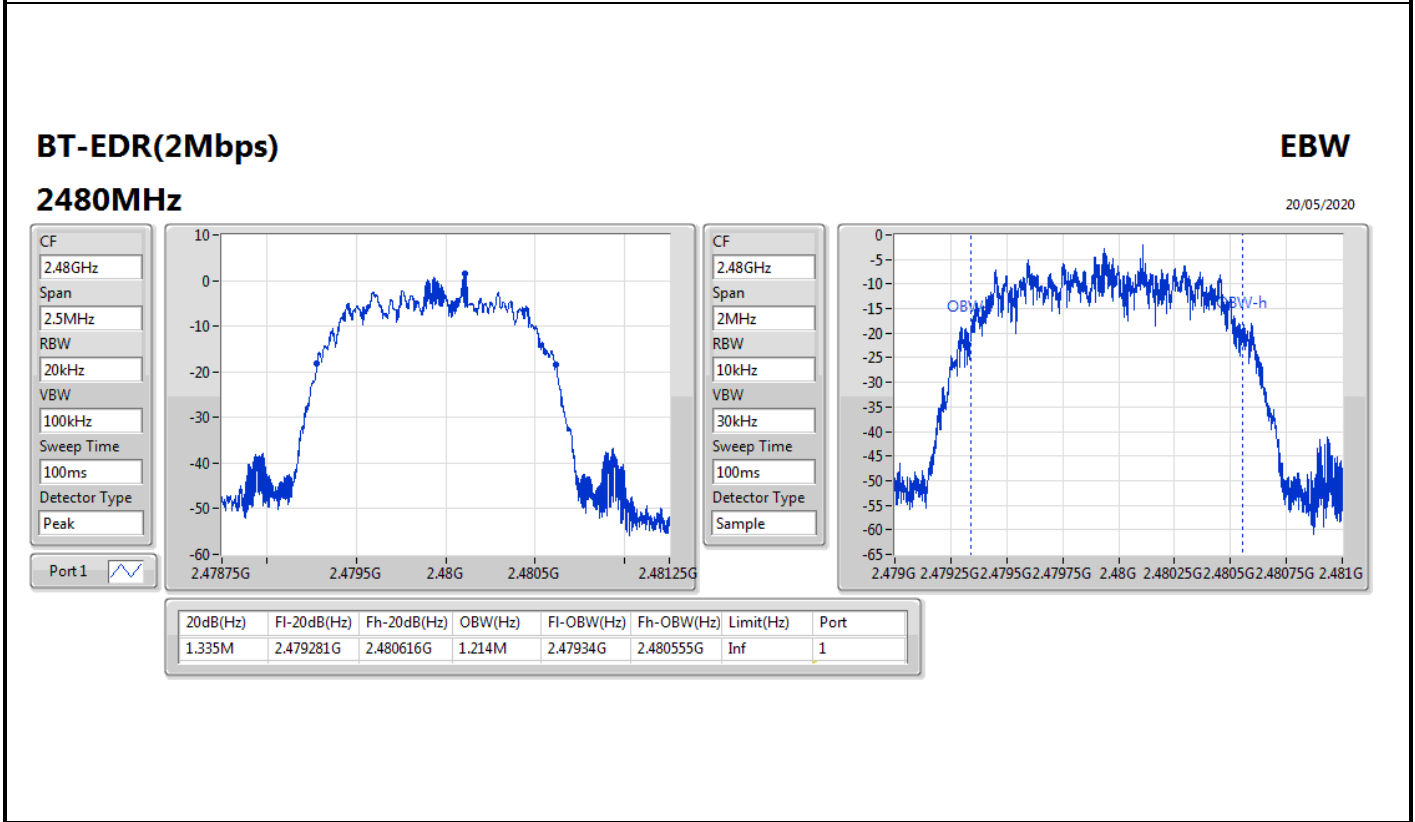
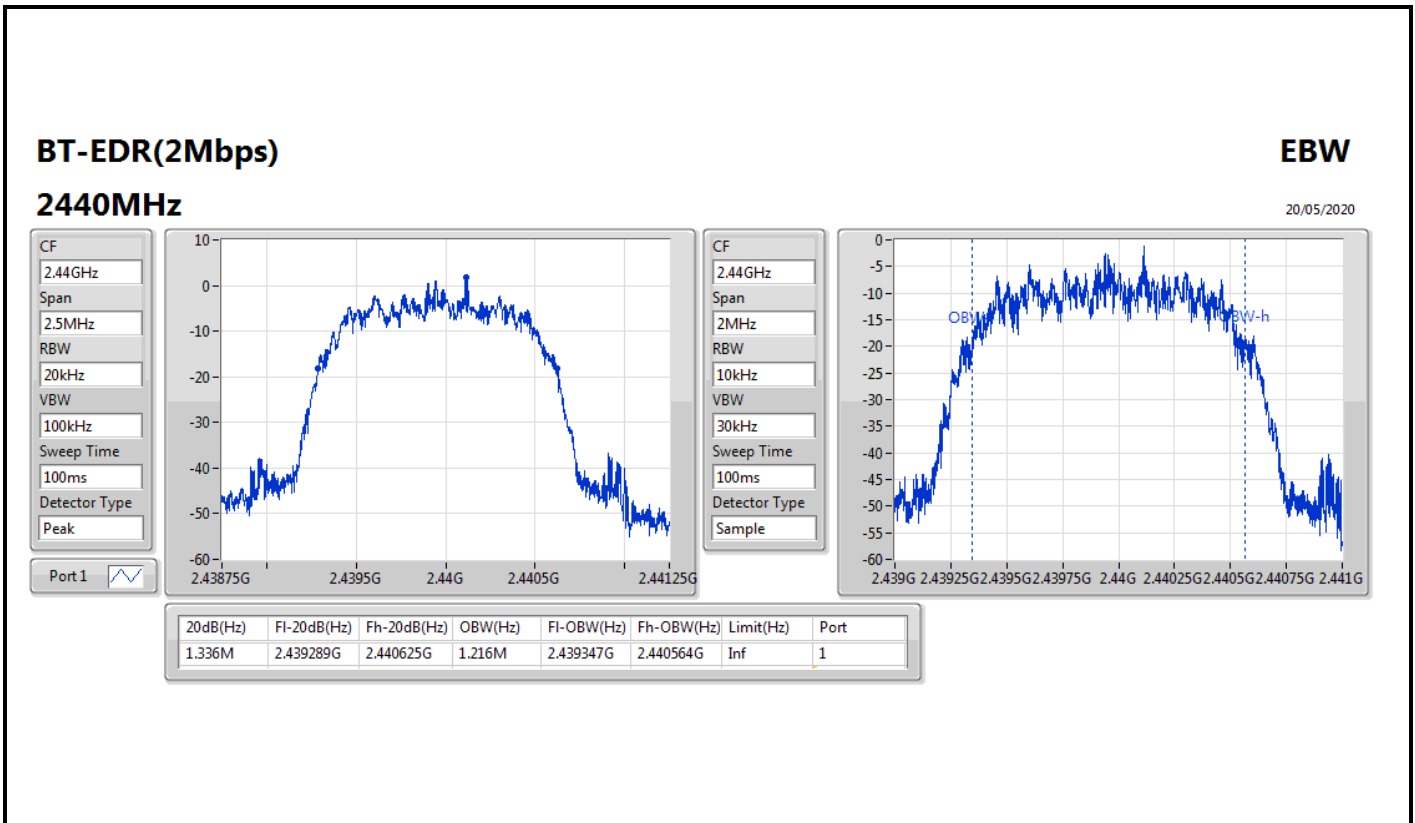
Result

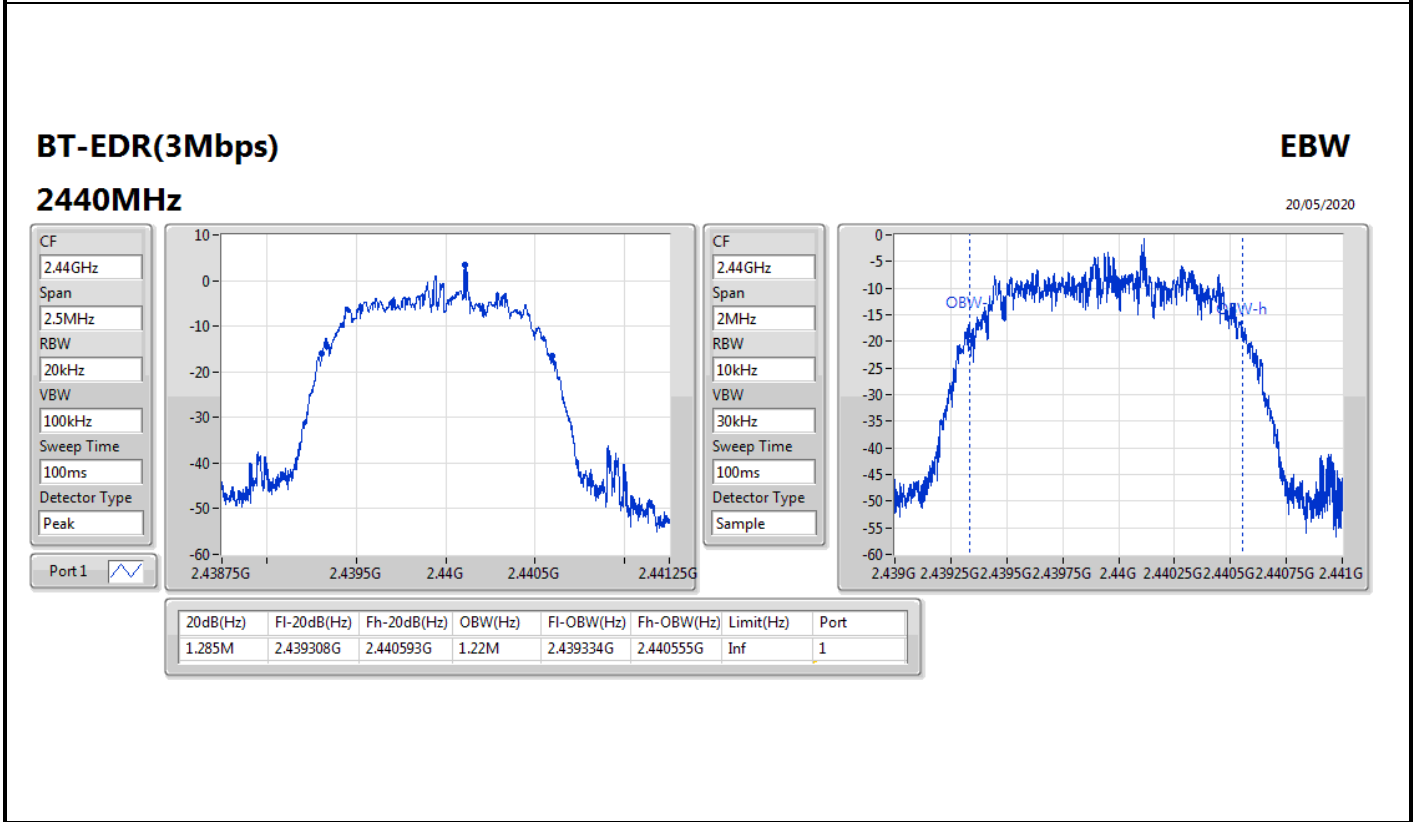
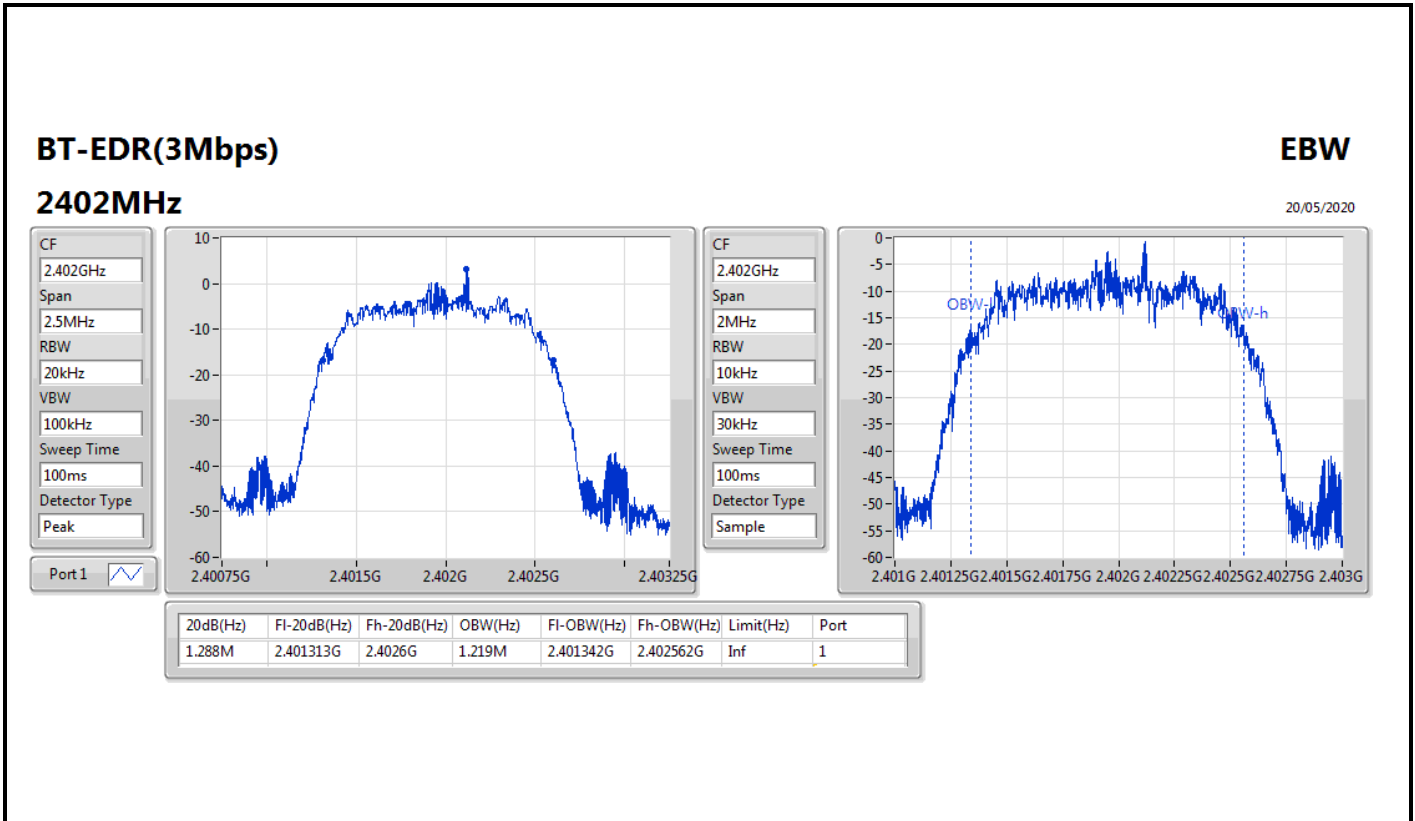
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	916.25k	881.559k
2440MHz	Pass	Inf	922.5k	886.557k
2480MHz	Pass	Inf	918.75k	883.558k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.334M	1.215M
2440MHz	Pass	Inf	1.336M	1.216M
2480MHz	Pass	Inf	1.335M	1.214M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.288M	1.219M
2440MHz	Pass	Inf	1.285M	1.22M
2480MHz	Pass	Inf	1.286M	1.222M

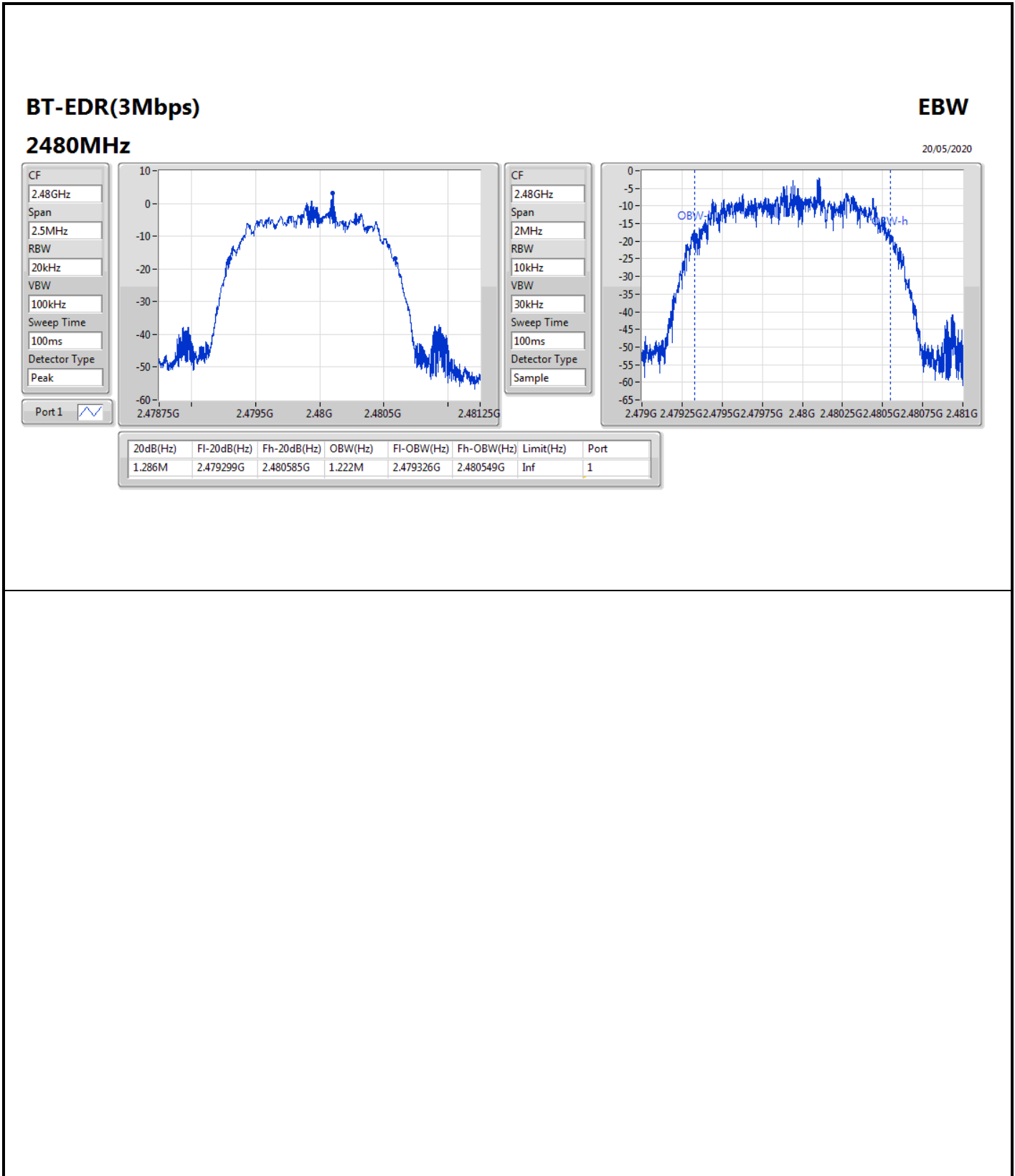
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;













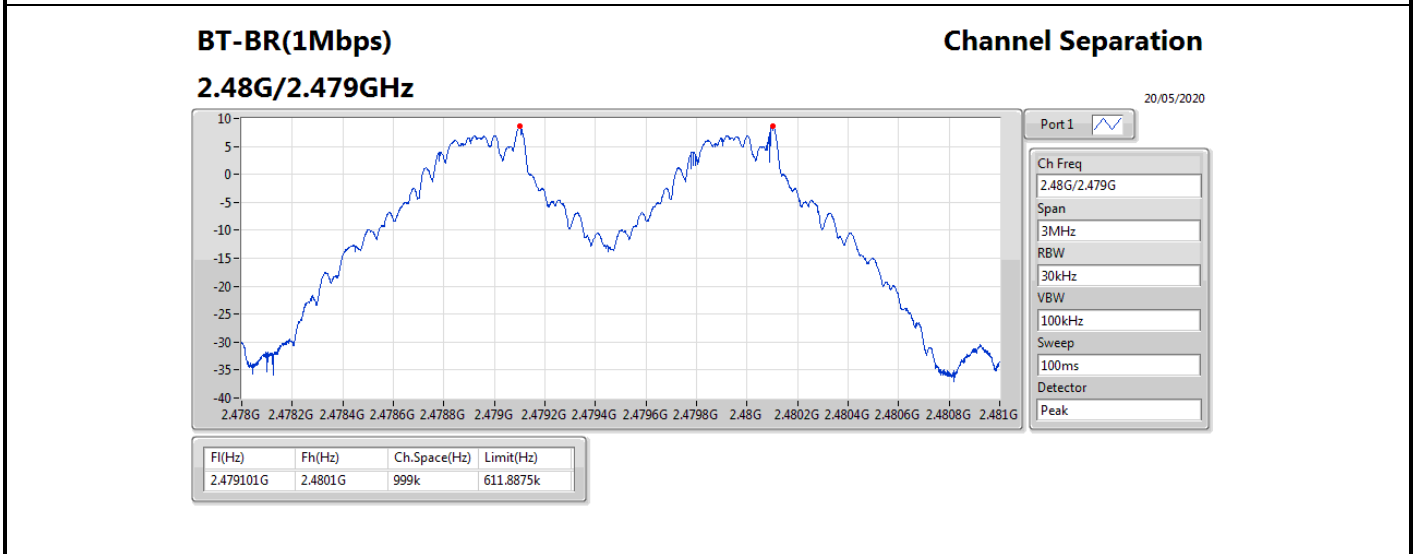
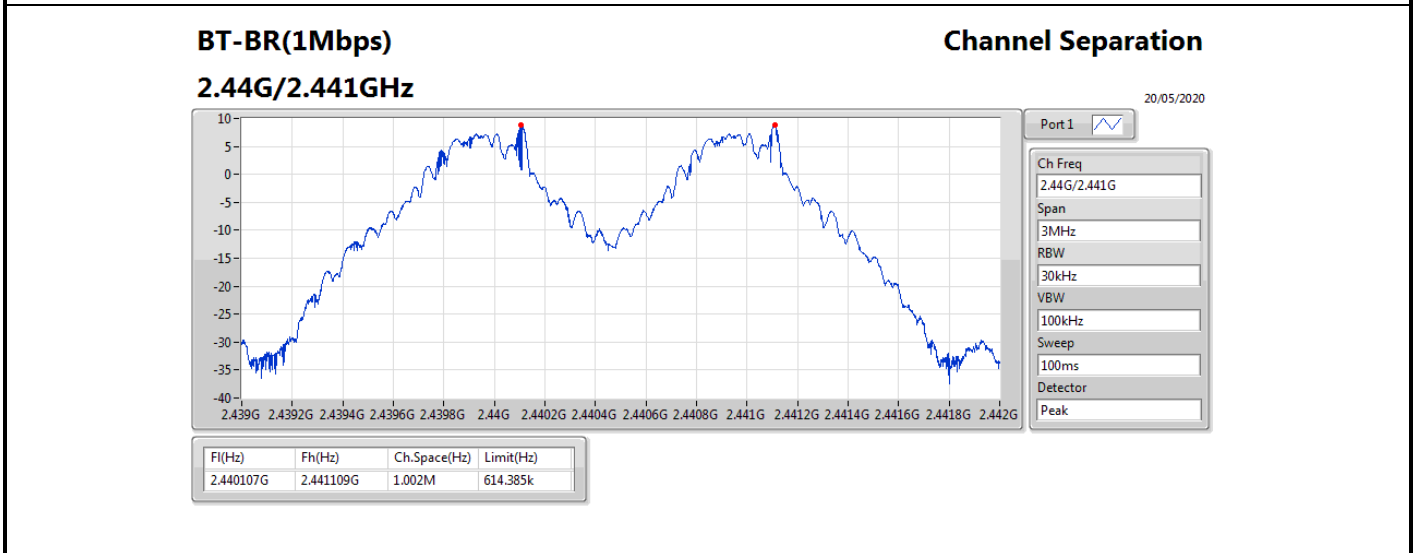
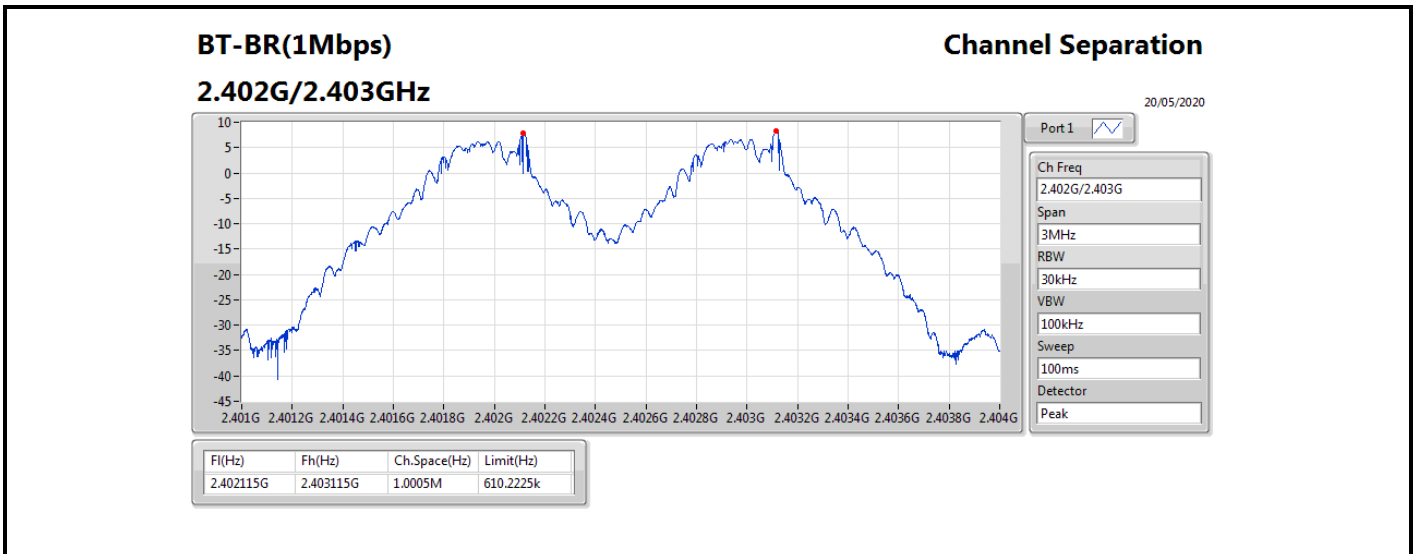
Summary

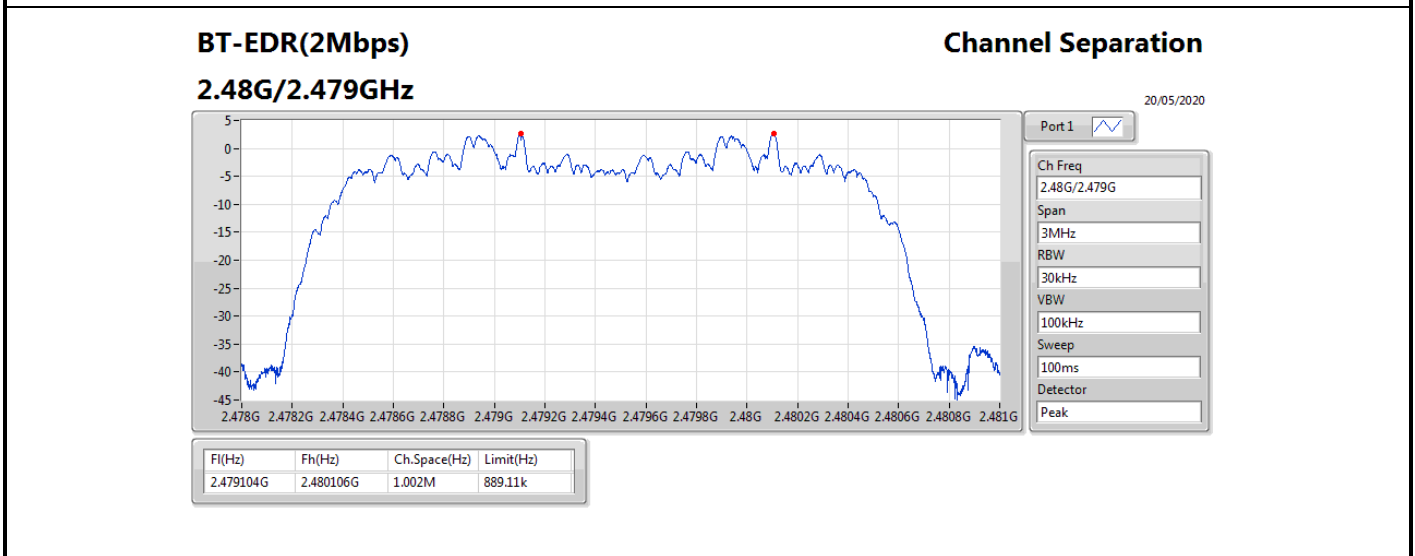
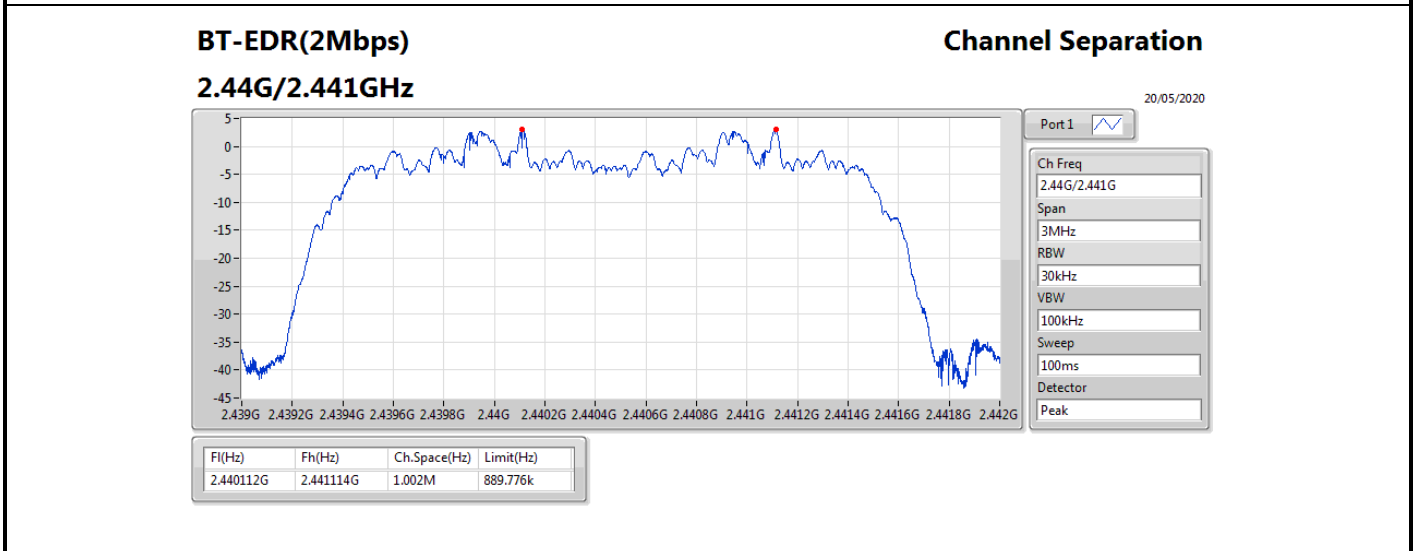
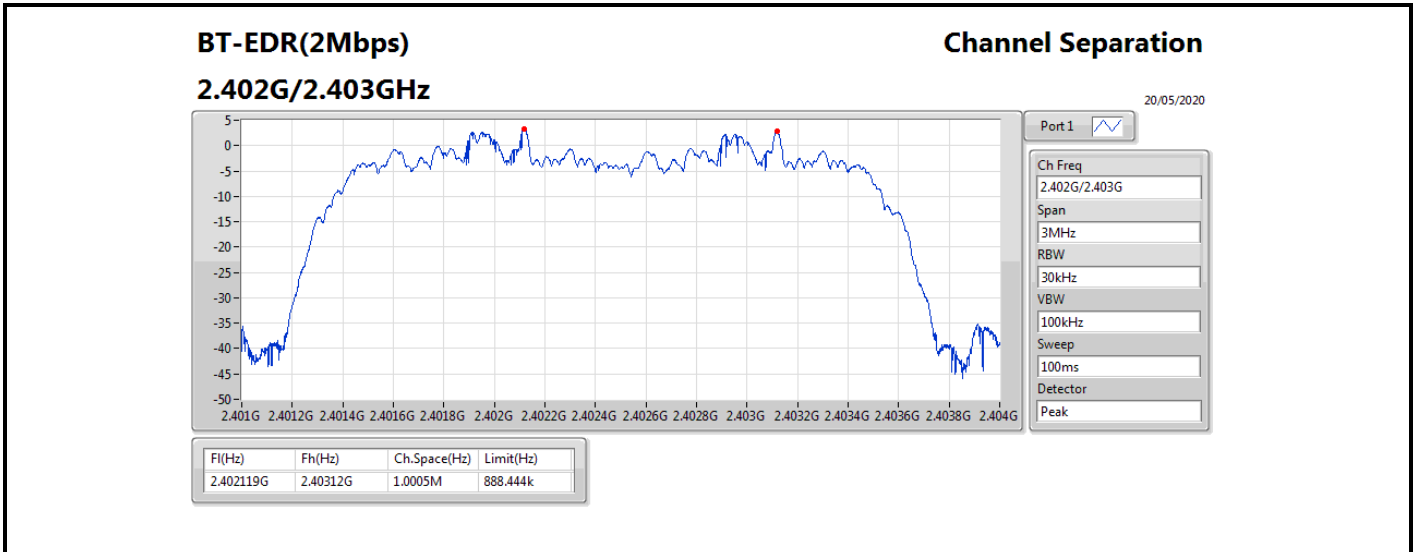
Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.002M	999k
BT-EDR(2Mbps)	1.002M	1.0005M
BT-EDR(3Mbps)	1.002M	999k

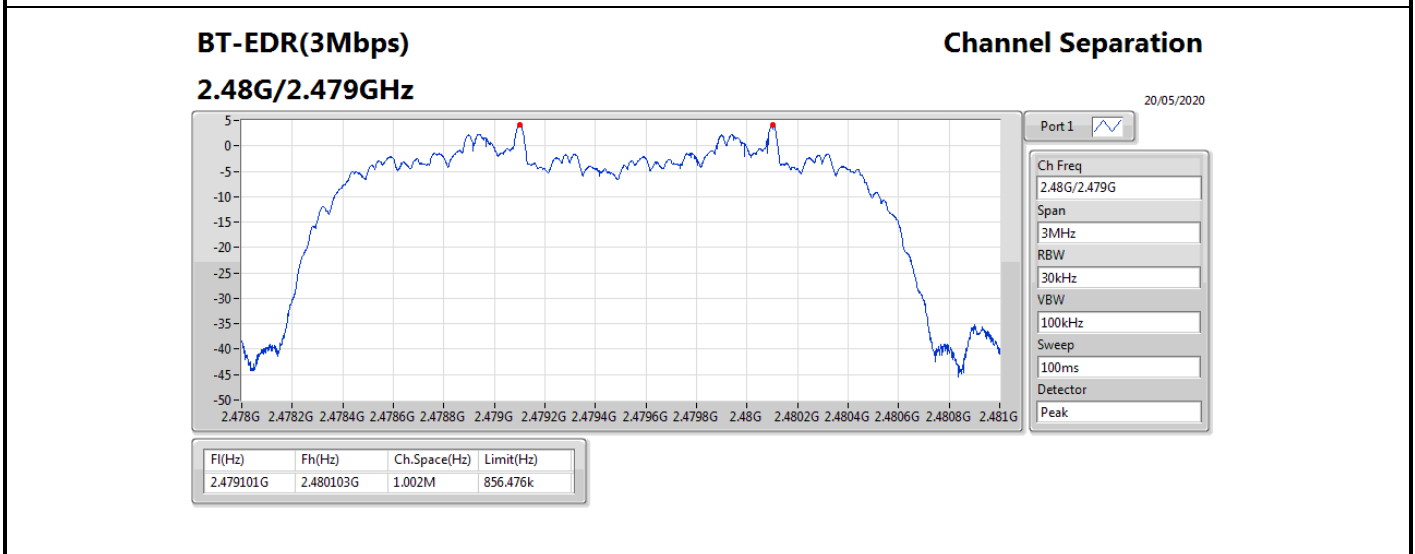
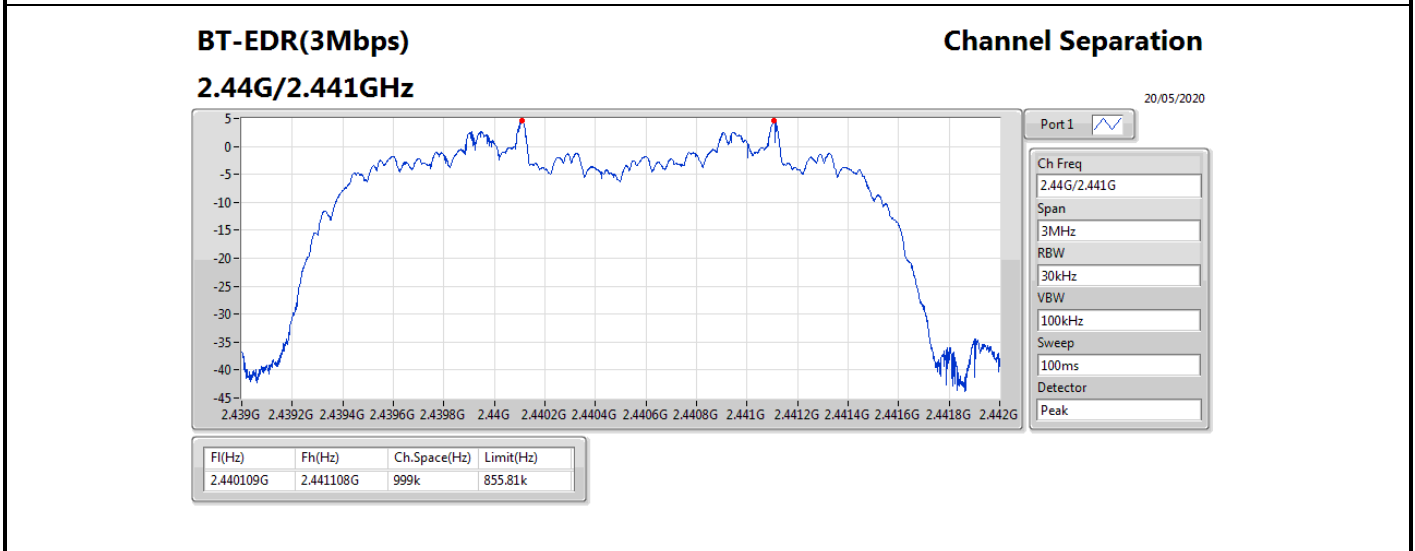
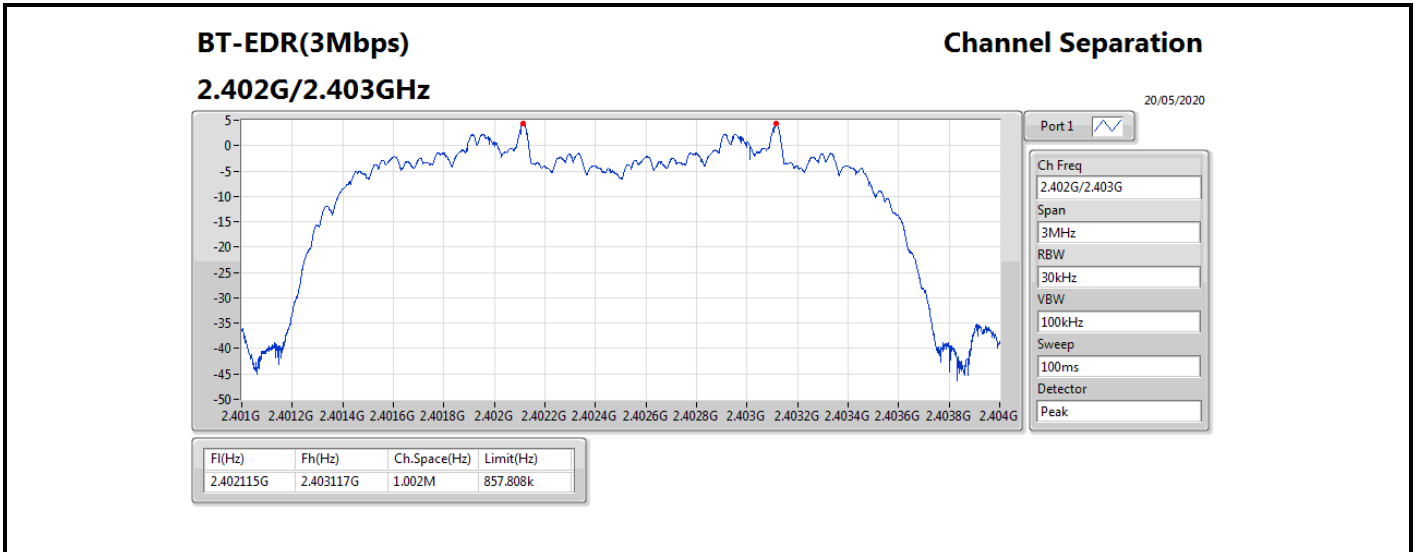


Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402115G	2.403115G	1.0005M	610.2225k
2440MHz	Pass	2.440107G	2.441109G	1.002M	614.385k
2480MHz	Pass	2.479101G	2.4801G	999k	611.8875k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402119G	2.40312G	1.0005M	888.444k
2440MHz	Pass	2.440112G	2.441114G	1.002M	889.776k
2480MHz	Pass	2.479104G	2.480106G	1.002M	889.11k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402115G	2.403117G	1.002M	857.808k
2440MHz	Pass	2.440109G	2.441108G	999k	855.81k
2480MHz	Pass	2.479101G	2.480103G	1.002M	856.476k









Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.97	0.00993
BT-EDR(2Mbps)	8.66	0.00735
BT-EDR(3Mbps)	9.11	0.00815



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	1.37	9.30	21.00
2440MHz	Pass	1.08	9.97	21.00
2480MHz	Pass	1.08	9.69	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	1.37	8.25	21.00
2440MHz	Pass	1.08	8.66	21.00
2480MHz	Pass	1.08	8.31	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	1.37	8.67	21.00
2440MHz	Pass	1.08	9.11	21.00
2480MHz	Pass	1.08	8.67	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.86	0.00968
BT-EDR(2Mbps)	5.93	0.00392
BT-EDR(3Mbps)	5.90	0.00389



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	1.37	8.94	21.00
2440MHz	Pass	1.08	9.86	21.00
2480MHz	Pass	1.08	9.63	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	1.37	5.93	21.00
2440MHz	Pass	1.08	5.86	21.00
2480MHz	Pass	1.08	5.49	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	1.37	5.69	21.00
2440MHz	Pass	1.08	5.90	21.00
2480MHz	Pass	1.08	5.61	21.00

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



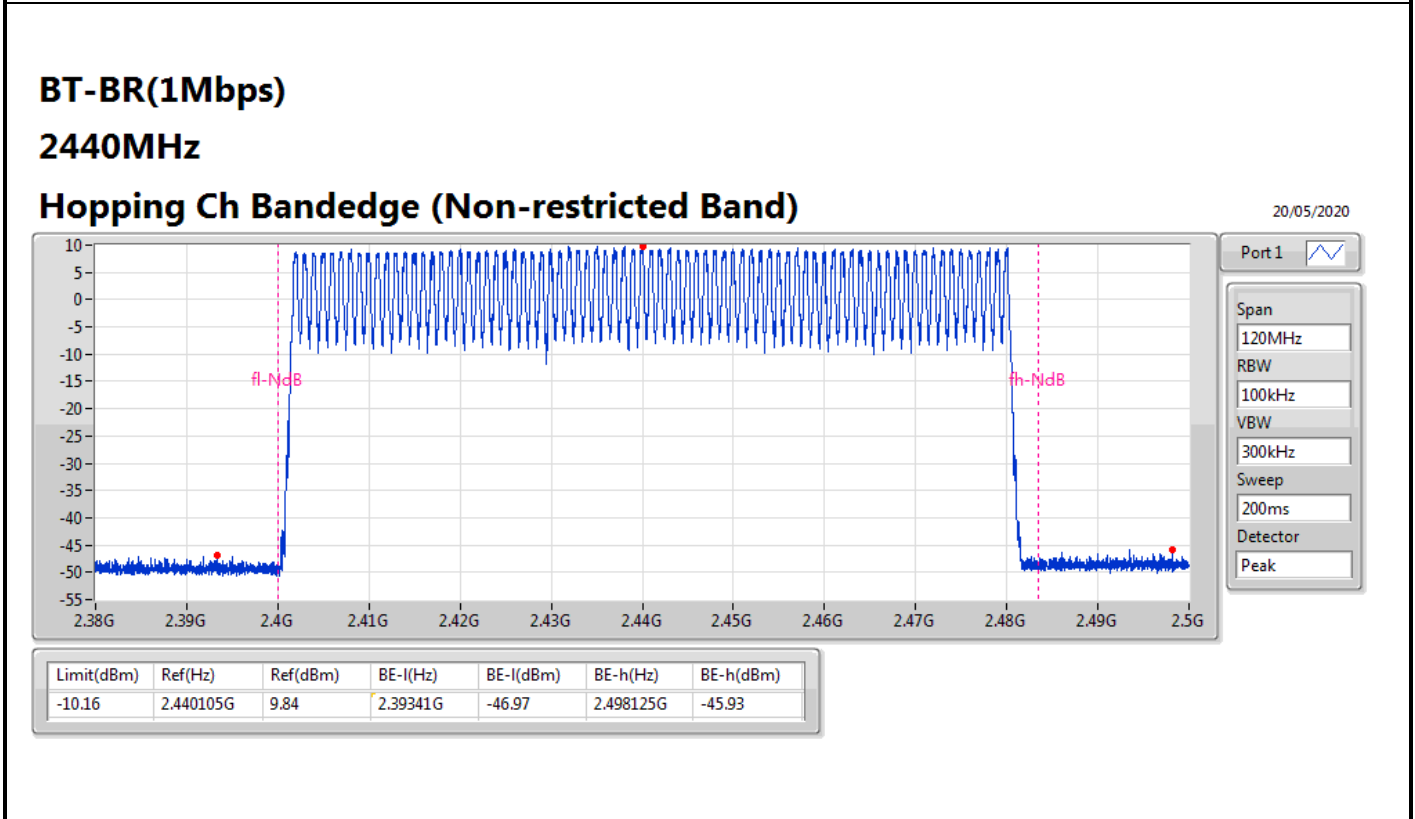
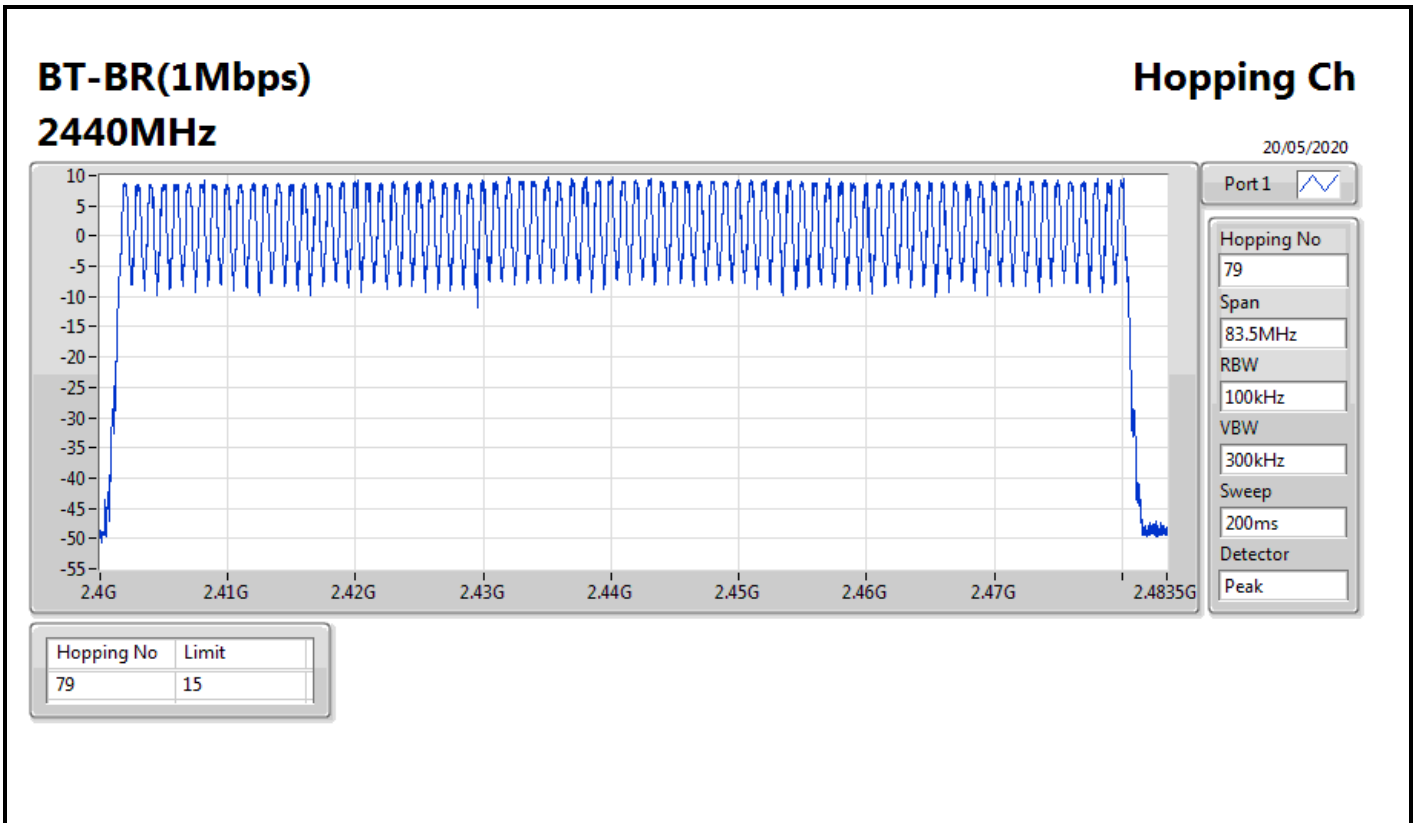
Summary

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



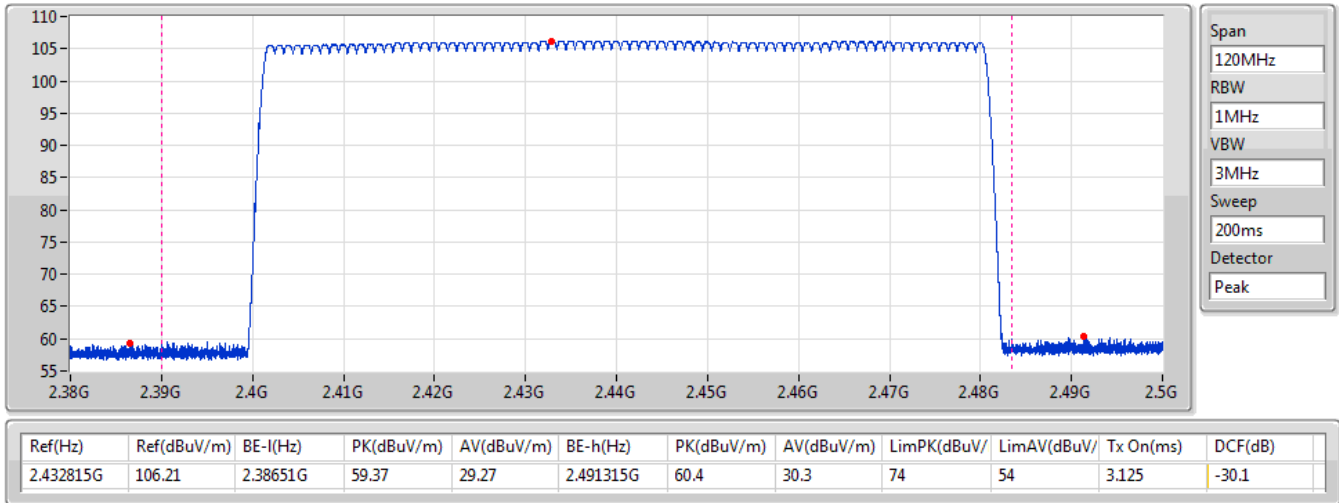
Result

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



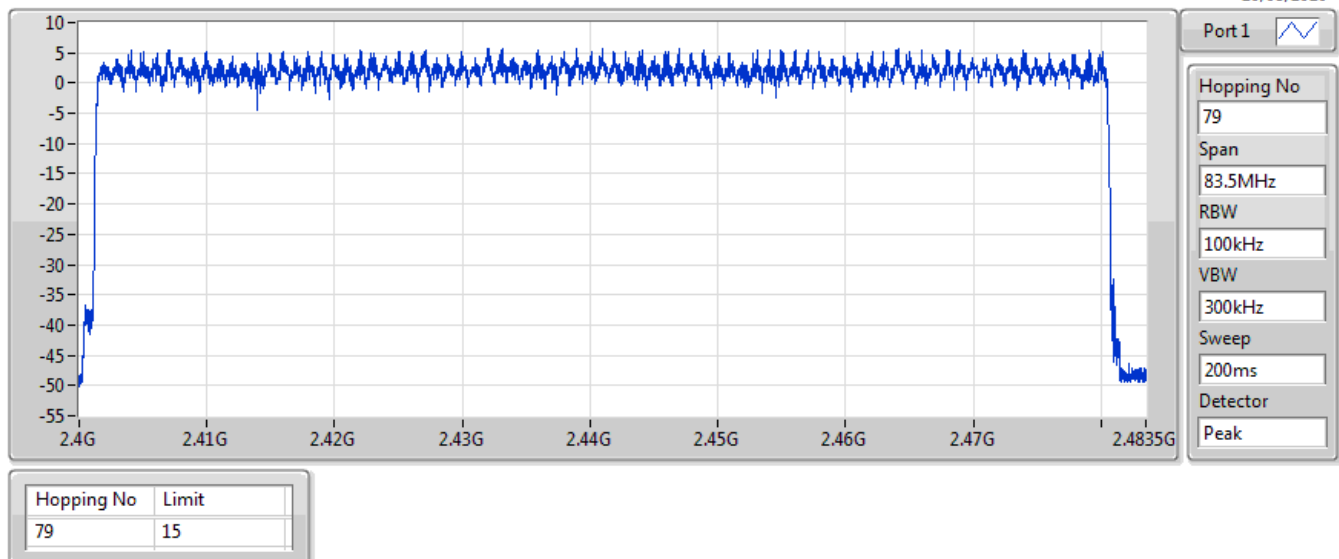
BT-BR(1Mbps)
2440MHz
Hopping Ch Bandedge (Restricted Band)

20/05/2020



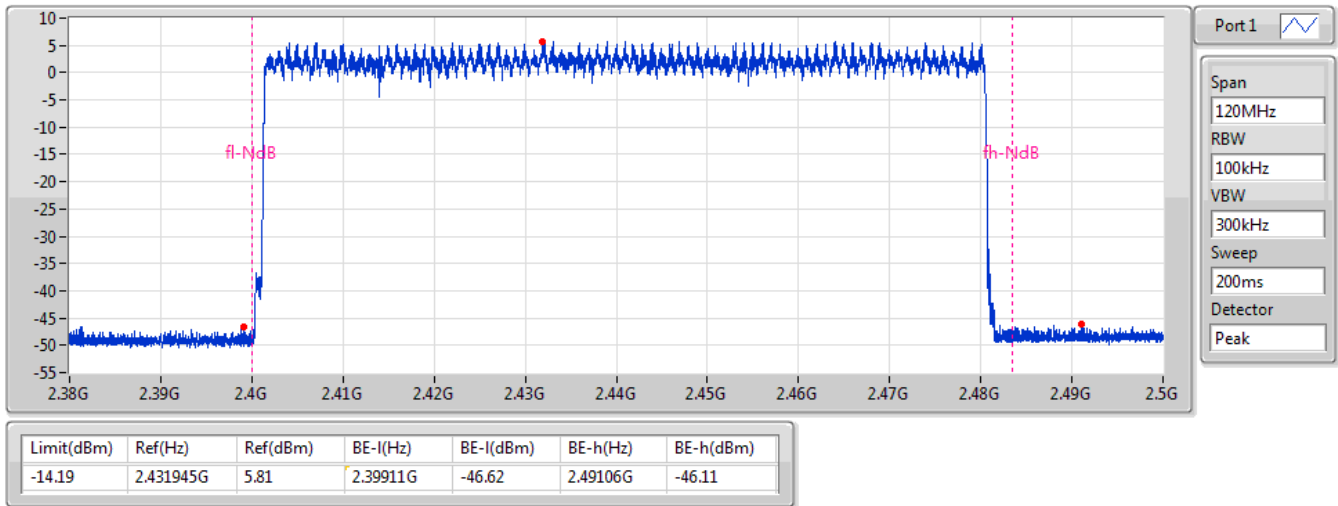
BT-EDR(2Mbps) **Hopping Ch**
2440MHz

20/05/2020



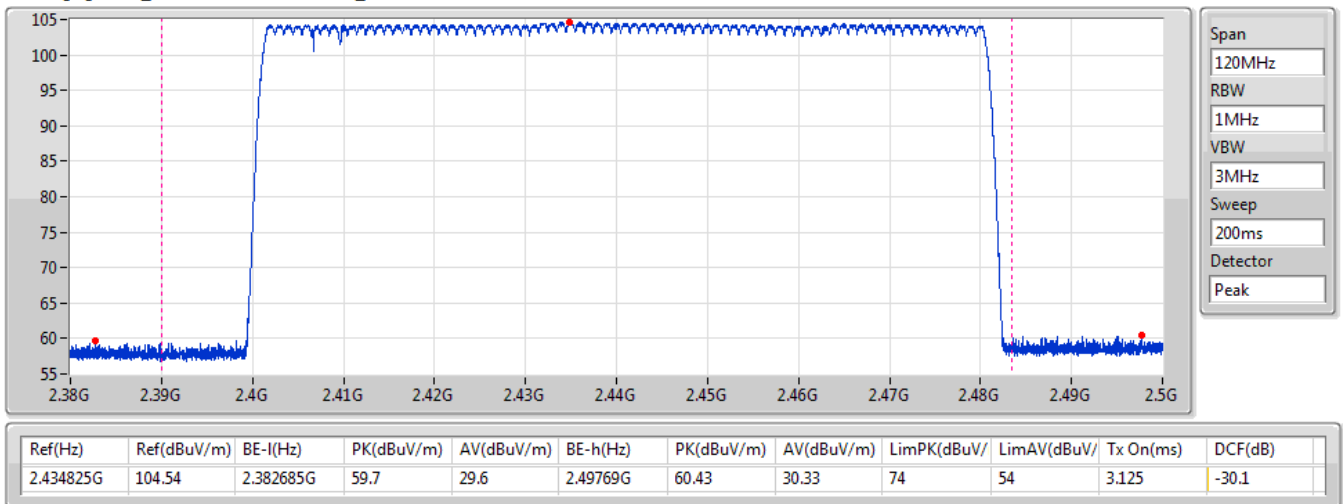
BT-EDR(2Mbps)
2440MHz
Hopping Ch Bandedge (Non-restricted Band)

20/05/2020



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

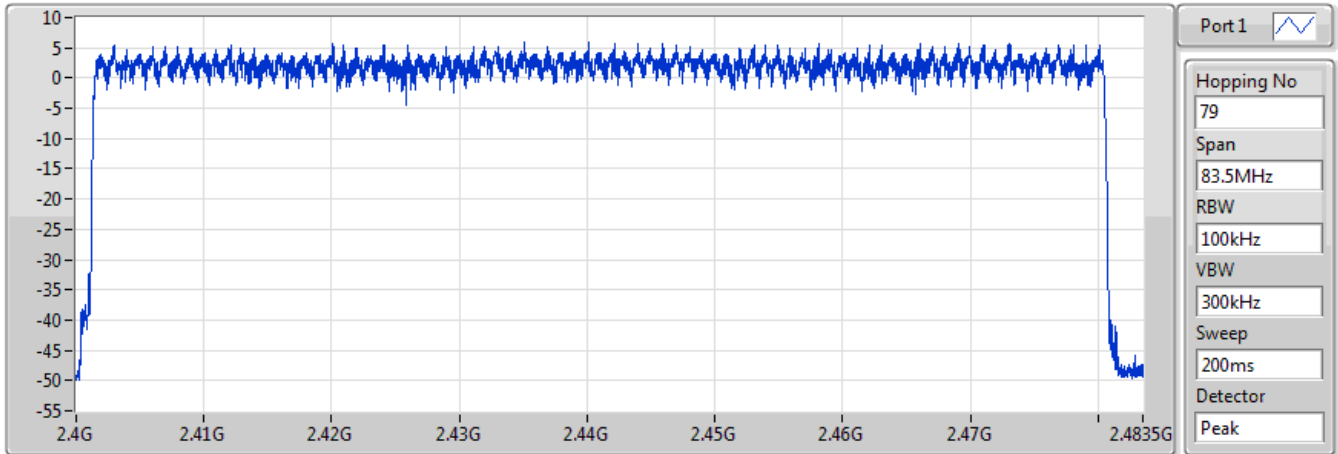
20/05/2020



BT-EDR(3Mbps)
2440MHz

Hopping Ch

20/05/2020

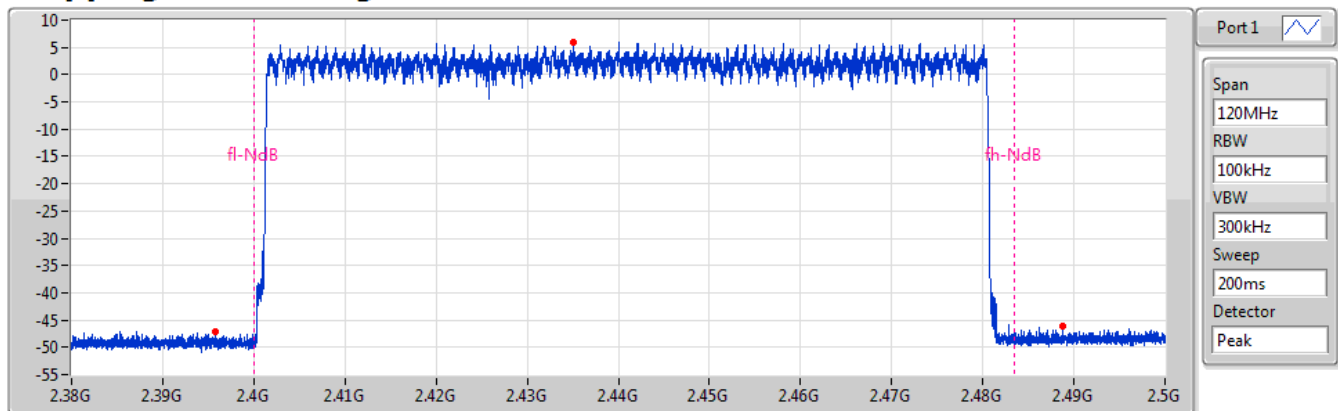


Hopping No	Limit
79	15

BT-EDR(3Mbps)
2440MHz

Hopping Ch Bandedge (Non-restricted Band)

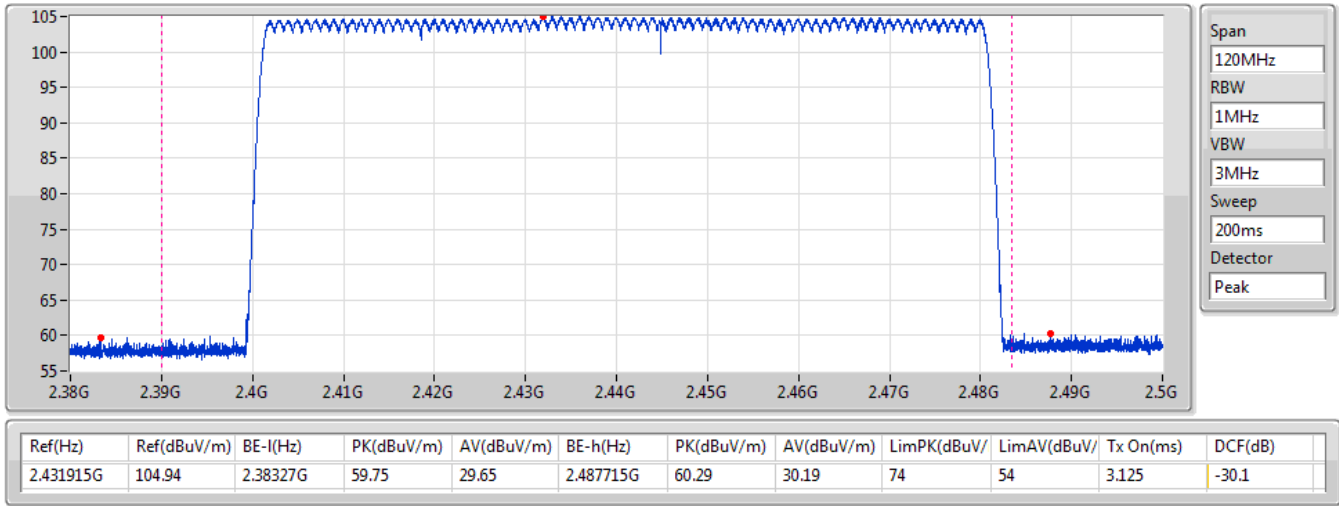
20/05/2020



Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-14.05	2.43511G	5.95	2.395795G	-47.11	2.48884G	-46.12

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

20/05/2020





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	310.7923m
BT-EDR(2Mbps)	311.61845m
BT-EDR(3Mbps)	311.5918m



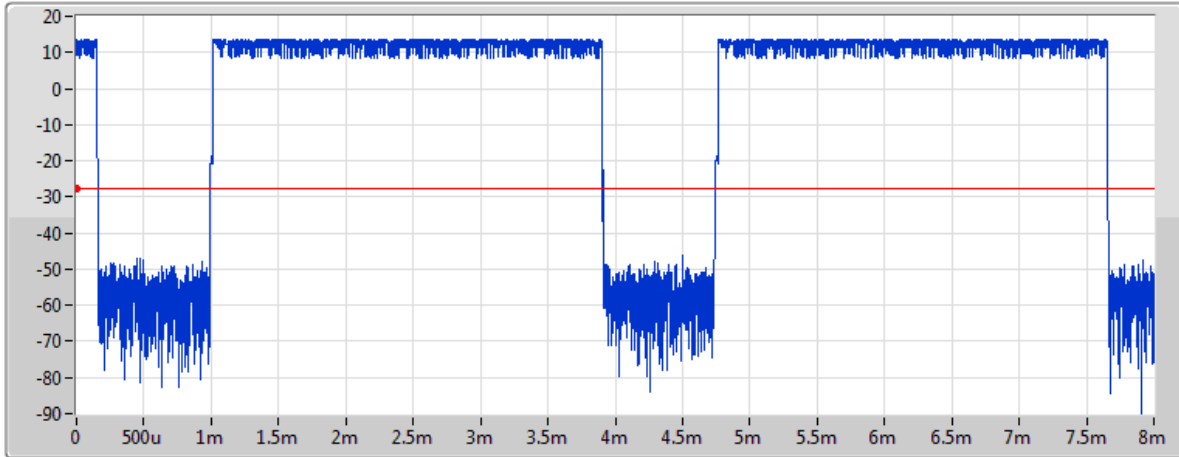
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	310.7923m	400m	2.9155m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	311.61845m	400m	2.92325m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	311.5918m	400m	2.923m

BT-BR(1Mbps)

2440MHz

03/07/2020



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.9155ms

non AFH Mode

AFH Mode

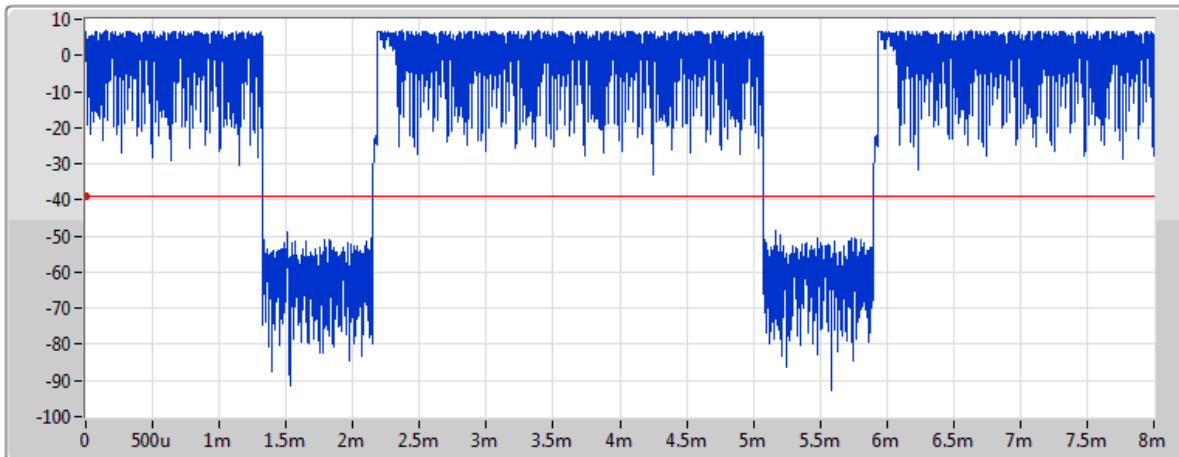
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	310.7923m	400m	2.9155m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	155.39615m	400m	2.9155m

BT-EDR(2Mbps)

2440MHz

03/07/2020



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.92325ms

non AFH Mode

AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	311.61845m	400m	2.92325m

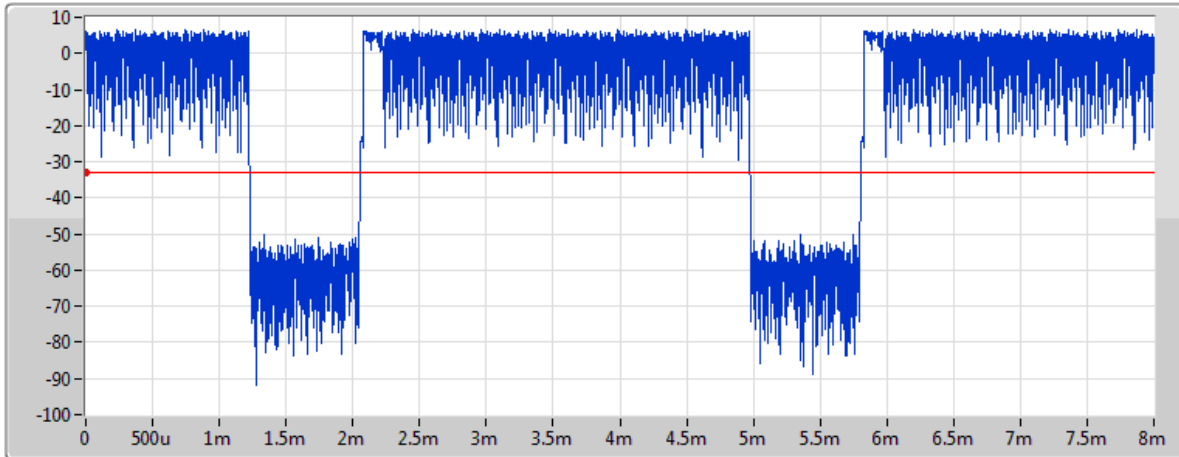
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	155.809225m	400m	2.92325m


BT-EDR(3Mbps)

Dwell

2440MHz

03/07/2020



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.923ms

non AFH Mode

AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	311.5918m	400m	2.923m

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	155.7959m	400m	2.923m



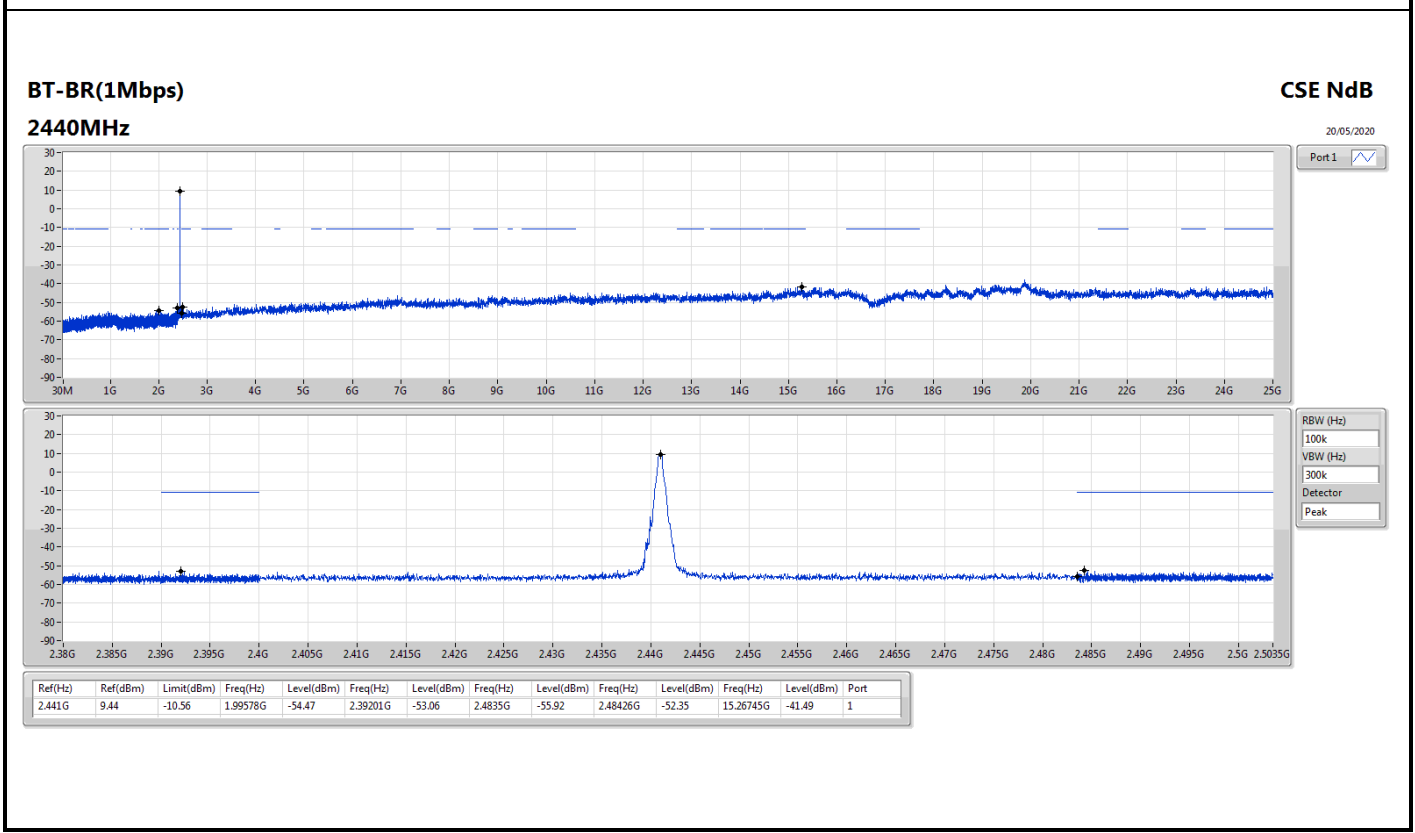
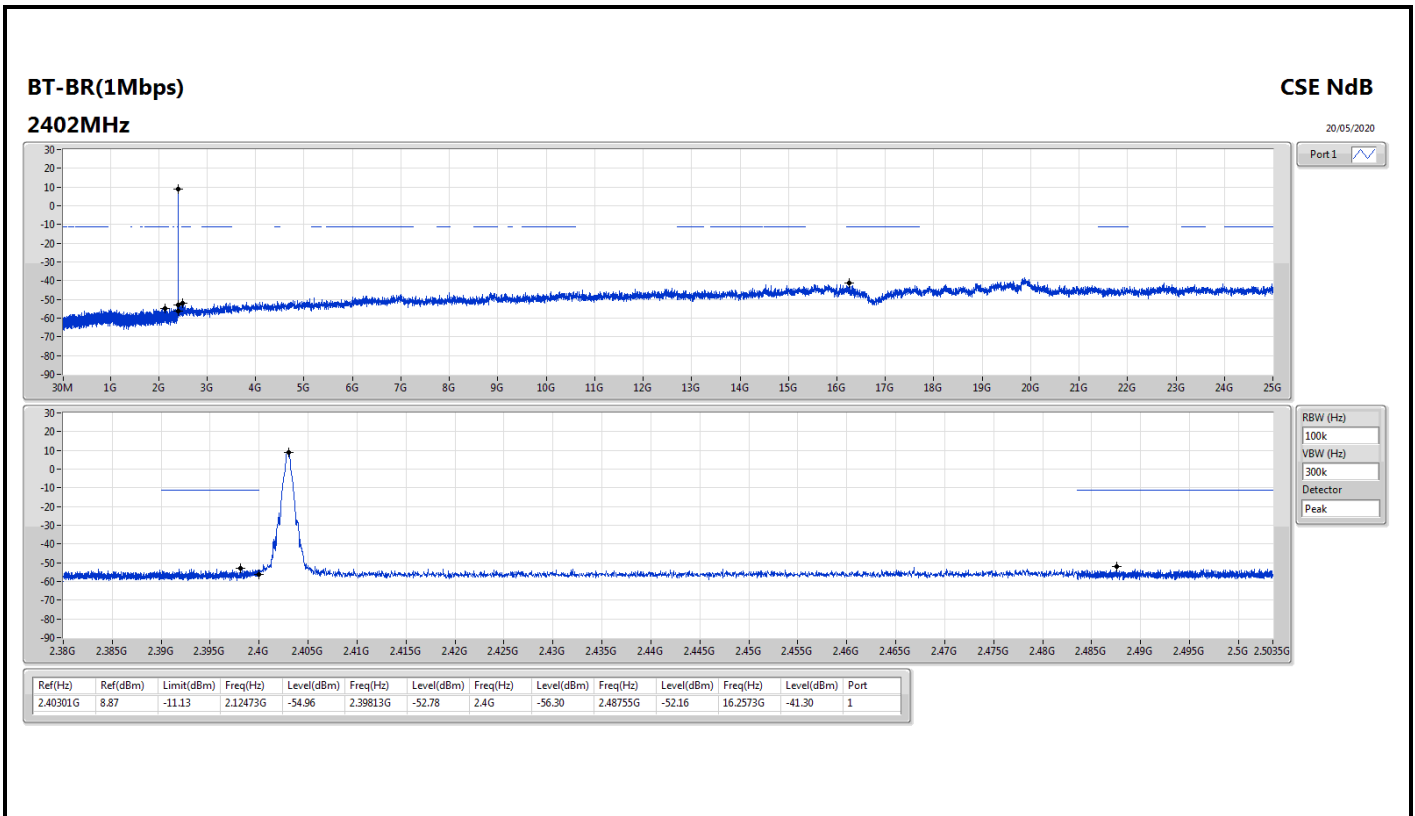
Summary

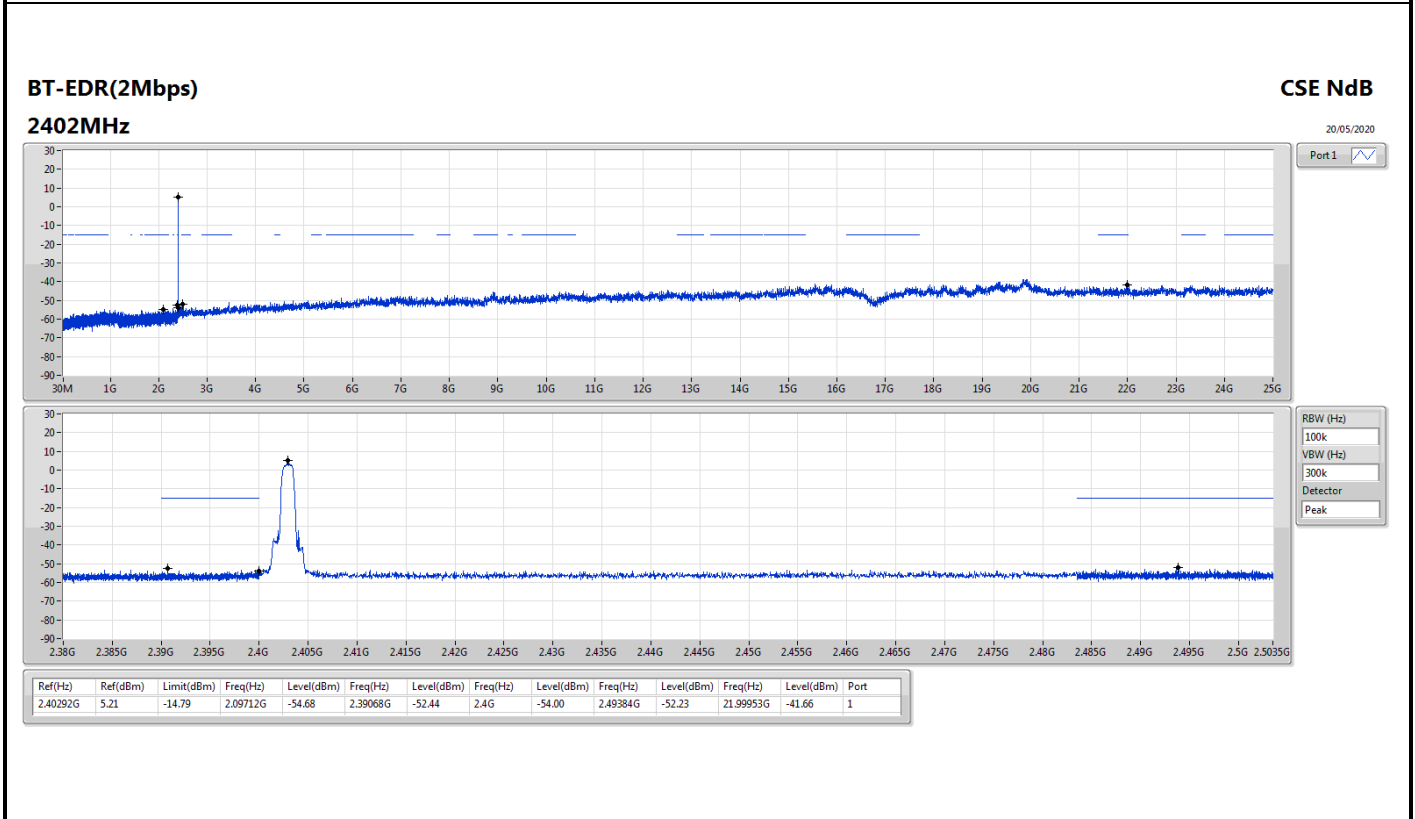
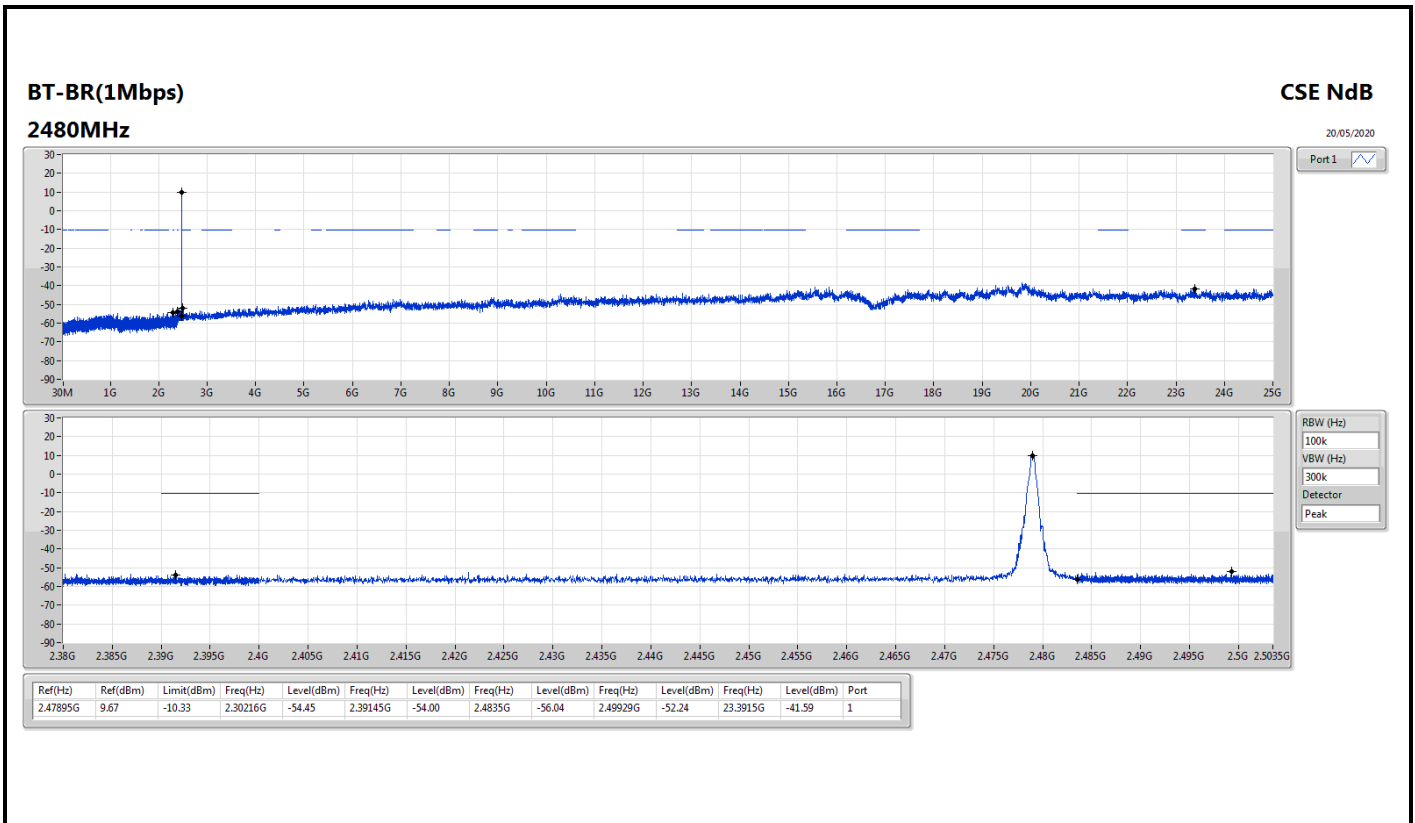
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.40301G	8.87	-11.13	2.12473G	-54.96	2.39813G	-52.78	2.4G	-56.30	2.48755G	-52.16	16.2573G	-41.30	1
BT-EDR(2Mbps)	Pass	2.40292G	5.21	-14.79	2.09712G	-54.68	2.39068G	-52.44	2.4G	-54.00	2.49384G	-52.23	21.99953G	-41.66	1
BT-EDR(3Mbps)	Pass	2.47903G	4.23	-15.77	954.43M	-54.70	2.39588G	-54.03	2.4G	-55.32	2.48355G	-53.01	24.01578G	-41.46	1

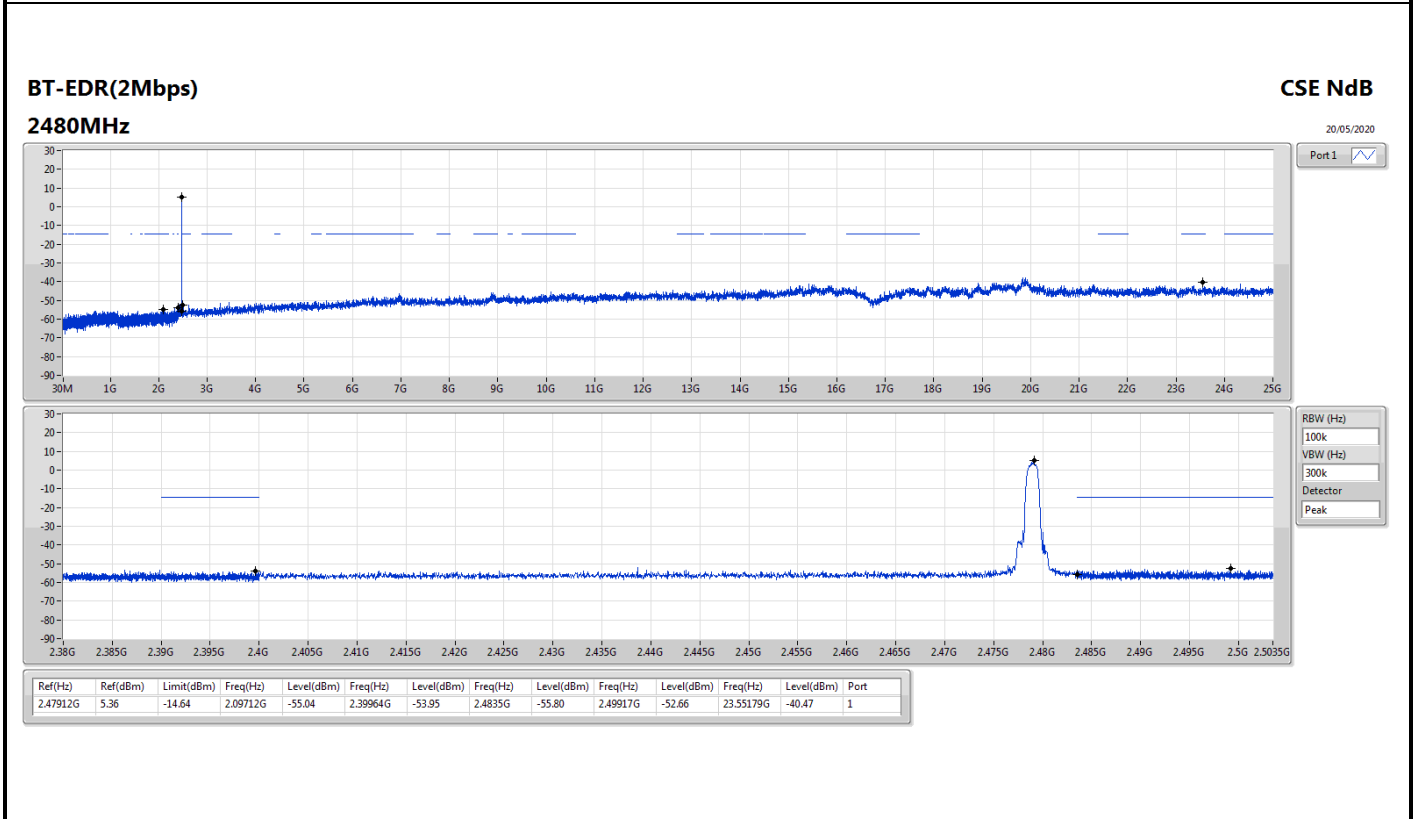
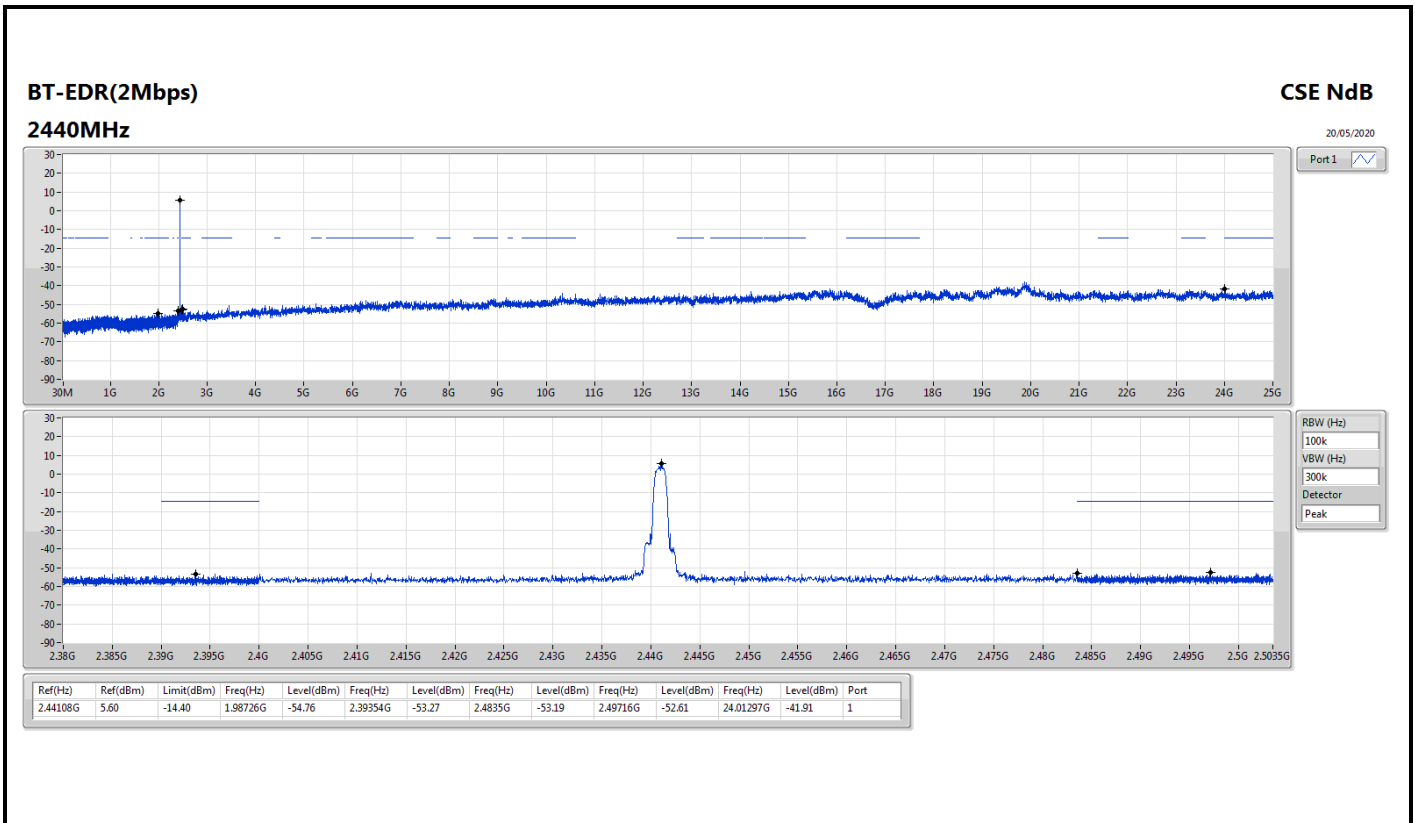


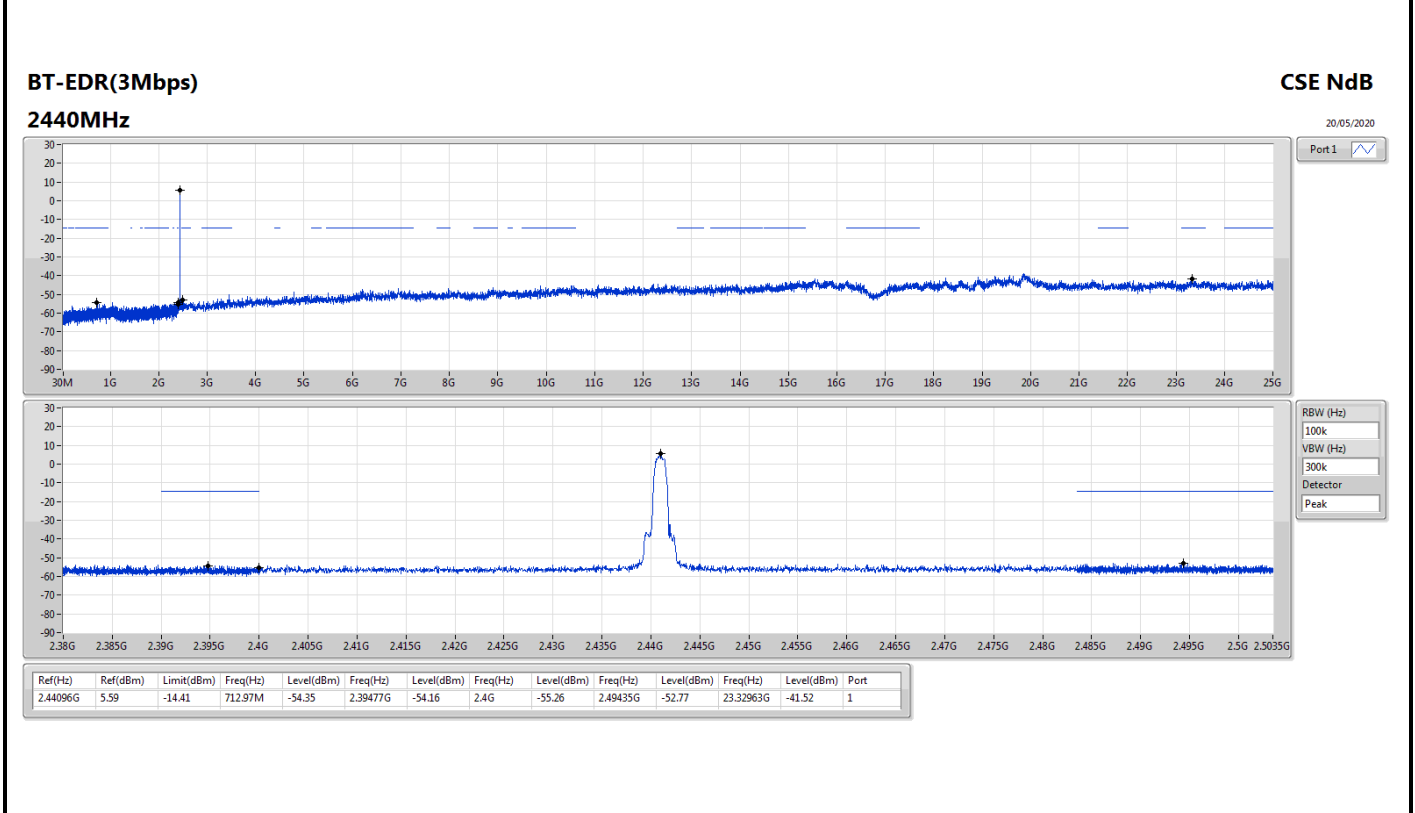
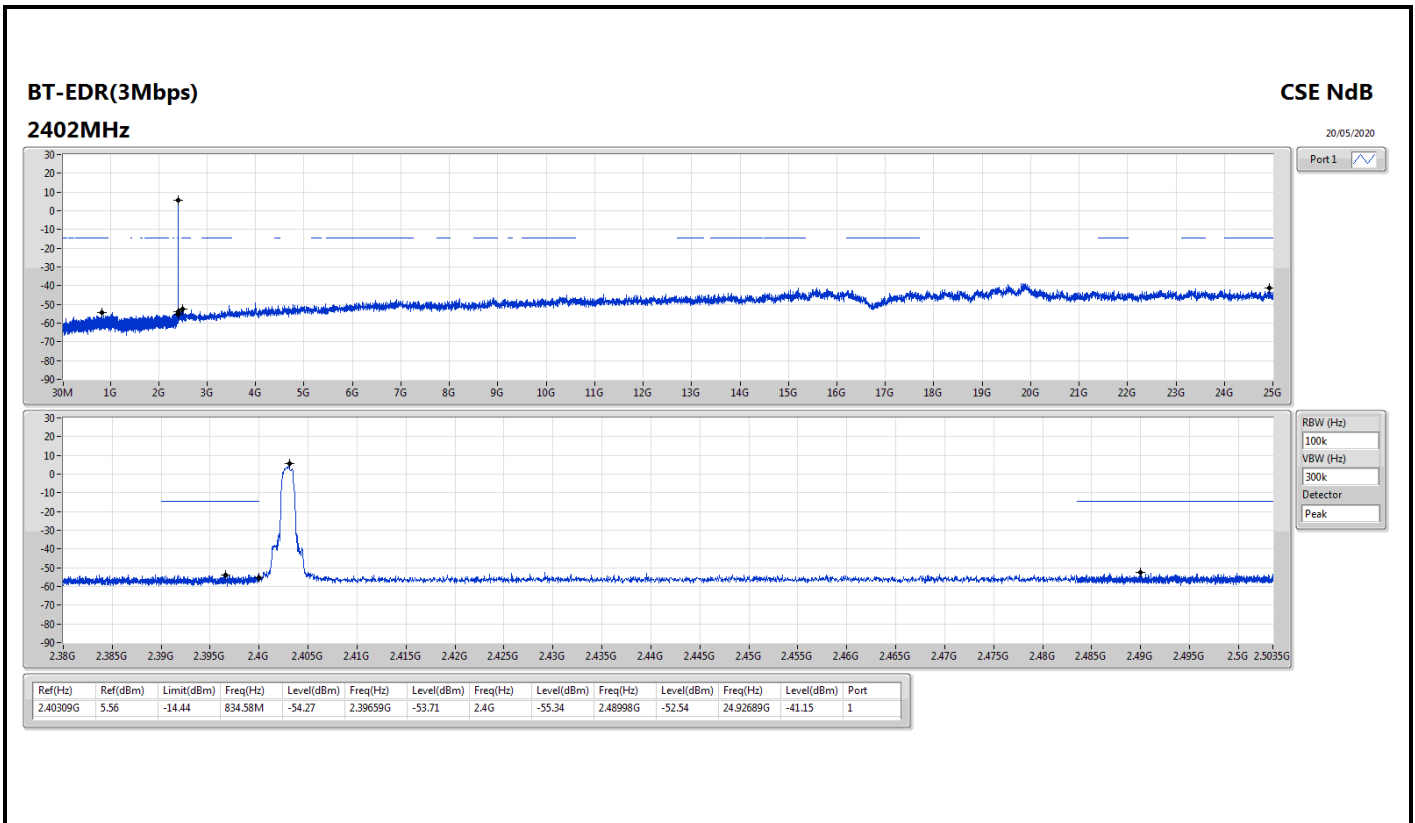
Result

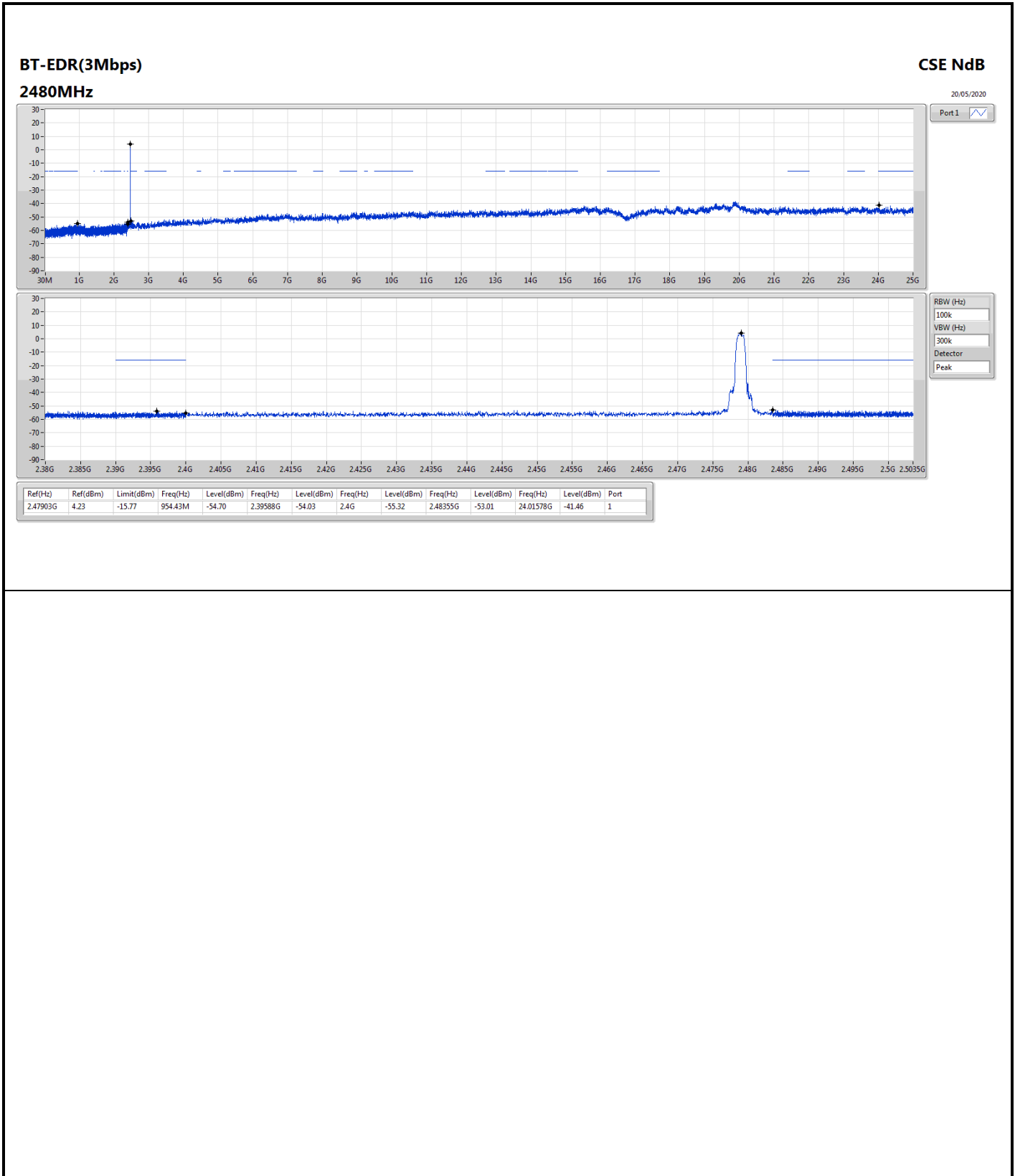
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40301G	8.87	-11.13	2.12473G	-54.96	2.39813G	-52.78	2.4G	-56.30	2.48755G	-52.16	16.2573G	-41.30	1
2440MHz	Pass	2.441G	9.44	-10.56	1.99578G	-54.47	2.39201G	-53.06	2.4835G	-55.92	2.48426G	-52.35	15.26745G	-41.49	1
2480MHz	Pass	2.47895G	9.67	-10.33	2.30216G	-54.45	2.39145G	-54.00	2.4835G	-56.04	2.49929G	-52.24	23.3915G	-41.59	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40292G	5.21	-14.79	2.09712G	-54.68	2.39068G	-52.44	2.4G	-54.00	2.49384G	-52.23	21.99953G	-41.66	1
2440MHz	Pass	2.44108G	5.60	-14.40	1.98726G	-54.76	2.39354G	-53.27	2.4835G	-53.19	2.49716G	-52.61	24.01297G	-41.91	1
2480MHz	Pass	2.47912G	5.36	-14.64	2.09712G	-55.04	2.39964G	-53.95	2.4835G	-55.80	2.49917G	-52.66	23.55179G	-40.47	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40309G	5.56	-14.44	834.58M	-54.27	2.39659G	-53.71	2.4G	-55.34	2.48998G	-52.54	24.92689G	-41.15	1
2440MHz	Pass	2.44096G	5.59	-14.41	712.97M	-54.35	2.39477G	-54.16	2.4G	-55.26	2.49435G	-52.77	23.32963G	-41.52	1
2480MHz	Pass	2.47903G	4.23	-15.77	954.43M	-54.70	2.39588G	-54.03	2.4G	-55.32	2.48355G	-53.01	24.01578G	-41.46	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	53.28M	33.28	40.00	-6.72	3	Horizontal	360	1.00	-



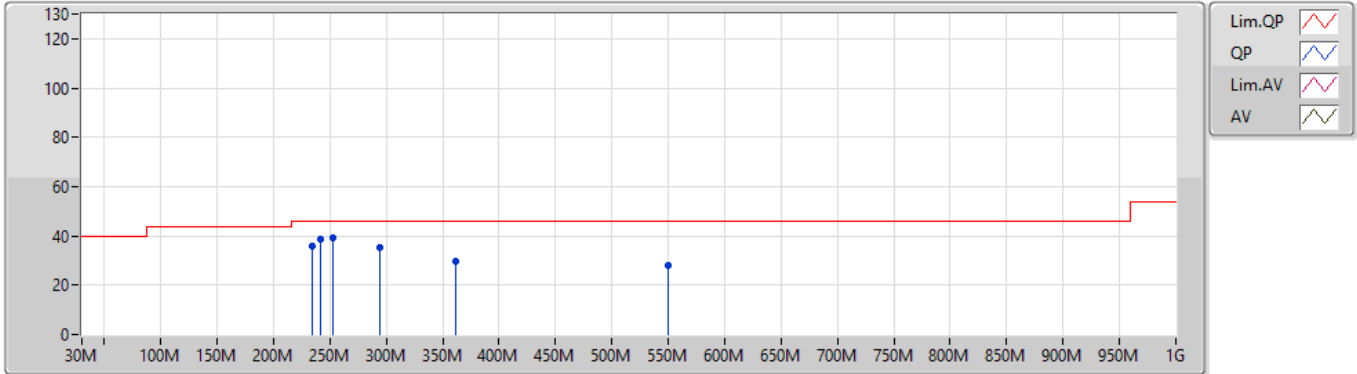
Result

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	233.7M	36.03	46.00	-9.97	3	Vertical	0	1.00	-
2440MHz	Pass	PK	241.46M	38.68	46.00	-7.32	3	Vertical	0	1.00	-
2440MHz	Pass	PK	253.1M	39.06	46.00	-6.94	3	Vertical	0	1.00	-
2440MHz	Pass	PK	293.84M	35.28	46.00	-10.72	3	Vertical	0	1.00	-
2440MHz	Pass	PK	361.74M	29.97	46.00	-16.03	3	Vertical	0	1.00	-
2440MHz	Pass	PK	549.92M	28.27	46.00	-17.73	3	Vertical	0	1.00	-
2440MHz	Pass	PK	53.28M	33.28	40.00	-6.72	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	249.22M	34.05	46.00	-11.95	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	268.62M	38.19	46.00	-7.81	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	295.78M	34.52	46.00	-11.48	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	569.32M	30.08	46.00	-15.92	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	650.8M	30.40	46.00	-15.60	3	Horizontal	360	1.00	-

BT-BR(1Mbps)

20/05/2020

2440MHz_Switching Power Supply

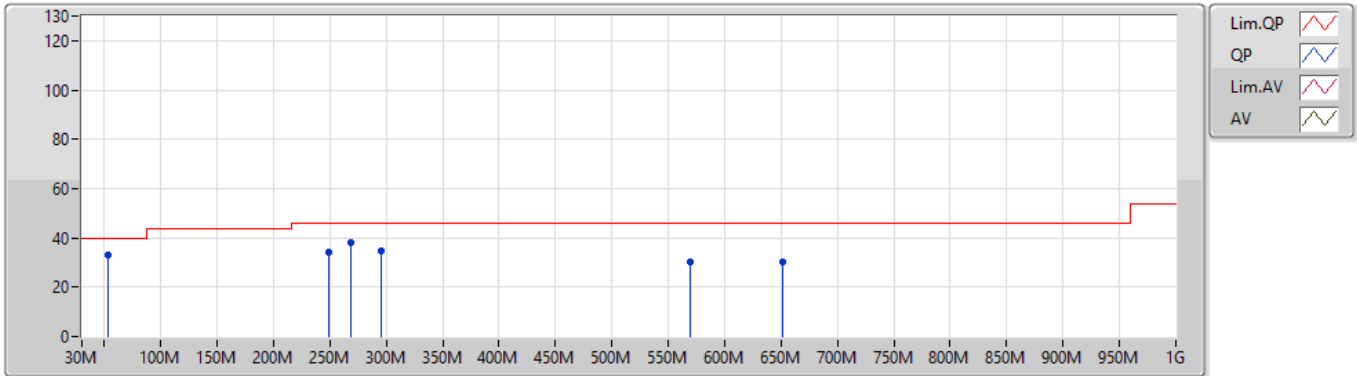


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	233.7M	36.03	46.00	-9.97	-19.48	3	Vertical	0	1.00	-	55.51	15.64	1.23	36.35
PK	241.46M	38.68	46.00	-7.32	-18.61	3	Vertical	0	1.00	-	57.29	16.51	1.27	36.39
PK	253.1M	39.06	46.00	-6.94	-17.07	3	Vertical	0	1.00	-	56.13	18.05	1.31	36.43
PK	293.84M	35.28	46.00	-10.72	-16.77	3	Vertical	0	1.00	-	52.05	18.20	1.39	36.36
PK	361.74M	29.97	46.00	-16.03	-15.18	3	Vertical	0	1.00	-	45.15	19.75	1.55	36.48
PK	549.92M	28.27	46.00	-17.73	-11.02	3	Vertical	0	1.00	-	39.29	24.07	2.00	37.09

BT-BR(1Mbps)

20/05/2020

2440MHz_Switching Power Supply



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	53.28M	33.28	40.00	-6.72	-24.43	3	Horizontal	360	1.00	-	57.71	11.99	0.57	36.99
PK	249.22M	34.05	46.00	-11.95	-17.62	3	Horizontal	360	1.00	-	51.67	17.51	1.30	36.43
PK	268.62M	38.19	46.00	-7.81	-16.49	3	Horizontal	360	1.00	-	54.68	18.57	1.34	36.40
PK	295.78M	34.52	46.00	-11.48	-16.75	3	Horizontal	360	1.00	-	51.27	18.22	1.39	36.36
PK	569.32M	30.08	46.00	-15.92	-9.94	3	Horizontal	360	1.00	-	40.02	25.10	2.08	37.12
PK	650.8M	30.40	46.00	-15.60	-9.35	3	Horizontal	360	1.00	-	39.75	25.44	2.20	36.99



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	59.55	74.00	-14.45	3	Horizontal	333	2.27	-
BT-EDR(3Mbps)	Pass	PK	2.3568G	58.29	74.00	-15.71	3	Vertical	36	2.08	-



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	2.3776G	35.73	54.00	-18.27	3	Vertical	53	2.08	-
2402MHz	Pass	AV	2.4022G	77.46	Inf	-Inf	3	Vertical	53	2.08	-
2402MHz	Pass	PK	2.3776G	58.23	74.00	-15.77	3	Vertical	53	2.08	-
2402MHz	Pass	PK	2.4022G	99.96	Inf	-Inf	3	Vertical	53	2.08	-
2402MHz	Pass	AV	2.3862G	35.87	54.00	-18.13	3	Horizontal	330	2.06	-
2402MHz	Pass	AV	2.4018G	82.86	Inf	-Inf	3	Horizontal	330	2.06	-
2402MHz	Pass	PK	2.3862G	58.37	74.00	-15.63	3	Horizontal	330	2.06	-
2402MHz	Pass	PK	2.4018G	105.36	Inf	-Inf	3	Horizontal	330	2.06	-
2402MHz	Pass	AV	4.7977G	22.20	54.00	-31.80	3	Vertical	188	1.84	-
2402MHz	Pass	PK	4.7977G	44.70	74.00	-29.30	3	Vertical	188	1.84	-
2402MHz	Pass	AV	4.80136G	23.04	54.00	-30.96	3	Horizontal	152	1.47	-
2402MHz	Pass	PK	4.80136G	45.54	74.00	-28.46	3	Horizontal	152	1.47	-
2440MHz	Pass	AV	2.3708G	35.68	54.00	-18.32	3	Vertical	40	1.62	-
2440MHz	Pass	AV	2.44G	81.97	Inf	-Inf	3	Vertical	40	1.62	-
2440MHz	Pass	AV	2.498G	35.00	54.00	-19.00	3	Vertical	40	1.62	-
2440MHz	Pass	PK	2.3708G	58.18	74.00	-15.82	3	Vertical	40	1.62	-
2440MHz	Pass	PK	2.44G	104.47	Inf	-Inf	3	Vertical	40	1.62	-
2440MHz	Pass	PK	2.498G	57.50	74.00	-16.50	3	Vertical	40	1.62	-
2440MHz	Pass	AV	2.376G	35.94	54.00	-18.06	3	Horizontal	321	1.00	-
2440MHz	Pass	AV	2.44G	84.99	Inf	-Inf	3	Horizontal	321	1.00	-
2440MHz	Pass	AV	2.4964G	34.96	54.00	-19.04	3	Horizontal	321	1.00	-
2440MHz	Pass	PK	2.376G	58.44	74.00	-15.56	3	Horizontal	321	1.00	-
2440MHz	Pass	PK	2.44G	107.49	Inf	-Inf	3	Horizontal	321	1.00	-
2440MHz	Pass	PK	2.4964G	57.46	74.00	-16.54	3	Horizontal	321	1.00	-
2440MHz	Pass	AV	4.88168G	22.60	54.00	-31.40	3	Vertical	0	1.49	-
2440MHz	Pass	PK	4.88168G	45.10	74.00	-28.90	3	Vertical	0	1.49	-
2440MHz	Pass	AV	4.89416G	22.84	54.00	-31.16	3	Horizontal	153	1.66	-
2440MHz	Pass	PK	4.89416G	45.34	74.00	-28.66	3	Horizontal	153	1.66	-
2480MHz	Pass	AV	2.4798G	81.20	Inf	-Inf	3	Vertical	42	1.27	-
2480MHz	Pass	AV	2.4835G	35.68	54.00	-18.32	3	Vertical	42	1.27	-
2480MHz	Pass	PK	2.4798G	103.70	Inf	-Inf	3	Vertical	42	1.27	-
2480MHz	Pass	PK	2.4835G	58.18	74.00	-15.82	3	Vertical	42	1.27	-
2480MHz	Pass	AV	2.4802G	85.00	Inf	-Inf	3	Horizontal	333	2.27	-
2480MHz	Pass	AV	2.4835G	37.05	54.00	-16.95	3	Horizontal	333	2.27	-
2480MHz	Pass	PK	2.4802G	107.50	Inf	-Inf	3	Horizontal	333	2.27	-
2480MHz	Pass	PK	2.4835G	59.55	74.00	-14.45	3	Horizontal	333	2.27	-
2480MHz	Pass	AV	4.96732G	22.51	54.00	-31.49	3	Vertical	360	2.09	-
2480MHz	Pass	PK	4.96732G	45.01	74.00	-28.99	3	Vertical	360	2.09	-
2480MHz	Pass	AV	4.94644G	22.68	54.00	-31.32	3	Horizontal	136	1.48	-
2480MHz	Pass	PK	4.94644G	45.18	74.00	-28.82	3	Horizontal	136	1.48	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3568G	35.79	54.00	-18.21	3	Vertical	36	2.08	-
2402MHz	Pass	AV	2.402G	77.30	Inf	-Inf	3	Vertical	36	2.08	-
2402MHz	Pass	PK	2.3568G	58.29	74.00	-15.71	3	Vertical	36	2.08	-
2402MHz	Pass	PK	2.402G	99.80	Inf	-Inf	3	Vertical	36	2.08	-
2402MHz	Pass	AV	2.3626G	35.71	54.00	-18.29	3	Horizontal	329	2.05	-
2402MHz	Pass	AV	2.4018G	80.30	Inf	-Inf	3	Horizontal	329	2.05	-
2402MHz	Pass	PK	2.3626G	58.21	74.00	-15.79	3	Horizontal	329	2.05	-
2402MHz	Pass	PK	2.4018G	102.80	Inf	-Inf	3	Horizontal	329	2.05	-
2402MHz	Pass	AV	4.79368G	29.09	54.00	-24.91	3	Vertical	336	2.13	-
2402MHz	Pass	PK	4.79368G	51.59	74.00	-22.41	3	Vertical	336	2.13	-
2402MHz	Pass	AV	4.79182G	28.60	54.00	-25.40	3	Horizontal	336	2.13	-
2402MHz	Pass	PK	4.79182G	51.10	74.00	-22.90	3	Horizontal	336	2.13	-
2440MHz	Pass	AV	2.3768G	35.14	54.00	-18.86	3	Vertical	40	1.60	-
2440MHz	Pass	AV	2.4396G	78.16	Inf	-Inf	3	Vertical	40	1.60	-
2440MHz	Pass	AV	2.4844G	34.85	54.00	-19.15	3	Vertical	40	1.60	-
2440MHz	Pass	PK	2.3768G	57.64	74.00	-16.36	3	Vertical	40	1.60	-
2440MHz	Pass	PK	2.4396G	100.66	Inf	-Inf	3	Vertical	40	1.60	-
2440MHz	Pass	PK	2.4844G	57.35	74.00	-16.65	3	Vertical	40	1.60	-
2440MHz	Pass	AV	2.3884G	35.60	54.00	-18.40	3	Horizontal	321	1.00	-

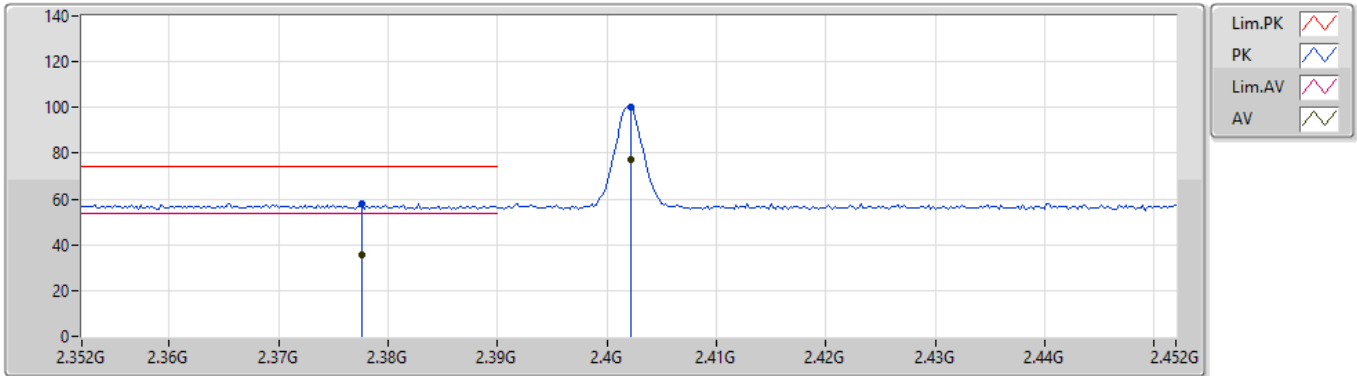


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.4396G	81.21	Inf	-Inf	3	Horizontal	321	1.00	-
2440MHz	Pass	AV	2.4972G	35.04	54.00	-18.96	3	Horizontal	321	1.00	-
2440MHz	Pass	PK	2.3884G	58.10	74.00	-15.90	3	Horizontal	321	1.00	-
2440MHz	Pass	PK	2.4396G	103.71	Inf	-Inf	3	Horizontal	321	1.00	-
2440MHz	Pass	PK	2.4972G	57.54	74.00	-16.46	3	Horizontal	321	1.00	-
2440MHz	Pass	AV	4.87892G	22.33	54.00	-31.67	3	Vertical	336	2.13	-
2440MHz	Pass	PK	4.87892G	44.83	74.00	-29.17	3	Vertical	336	2.13	-
2440MHz	Pass	AV	4.89014G	22.07	54.00	-31.93	3	Horizontal	214	1.50	-
2440MHz	Pass	PK	4.89014G	44.57	74.00	-29.43	3	Horizontal	214	1.50	-
2480MHz	Pass	AV	2.4798G	77.30	Inf	-Inf	3	Vertical	43	1.48	-
2480MHz	Pass	AV	2.494G	35.35	54.00	-18.65	3	Vertical	43	1.48	-
2480MHz	Pass	PK	2.4798G	99.80	Inf	-Inf	3	Vertical	43	1.48	-
2480MHz	Pass	PK	2.494G	57.85	74.00	-16.15	3	Vertical	43	1.48	-
2480MHz	Pass	AV	2.4798G	77.26	Inf	-Inf	3	Horizontal	347	2.25	-
2480MHz	Pass	AV	2.489G	35.09	54.00	-18.91	3	Horizontal	347	2.25	-
2480MHz	Pass	PK	2.4798G	99.76	Inf	-Inf	3	Horizontal	347	2.25	-
2480MHz	Pass	PK	2.489G	57.59	74.00	-16.41	3	Horizontal	347	2.25	-
2480MHz	Pass	AV	4.95448G	22.29	54.00	-31.71	3	Vertical	268	1.28	-
2480MHz	Pass	PK	4.95448G	44.79	74.00	-29.21	3	Vertical	268	1.28	-
2480MHz	Pass	AV	4.9651G	22.30	54.00	-31.70	3	Horizontal	0	1.50	-
2480MHz	Pass	PK	4.9651G	44.80	74.00	-29.20	3	Horizontal	0	1.50	-

BT-BR(1Mbps)

17/05/2020

2402MHz_TX

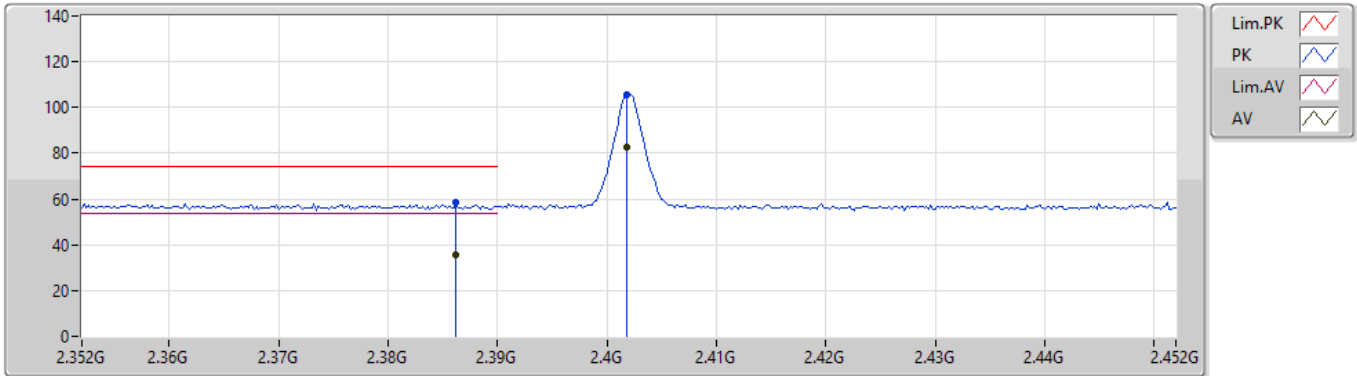


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3776G	35.73	54.00	-18.27	33.70	3	Vertical	53	2.08	-	2.03	27.76	5.94	-
AV	2.4022G	77.46	Inf	-Inf	33.76	3	Vertical	53	2.08	-	43.70	27.80	5.96	-
PK	2.3776G	58.23	74.00	-15.77	33.70	3	Vertical	53	2.08	-	24.53	27.76	5.94	-
PK	2.4022G	99.96	Inf	-Inf	33.76	3	Vertical	53	2.08	-	66.20	27.80	5.96	-

BT-BR(1Mbps)

17/05/2020

2402MHz_TX

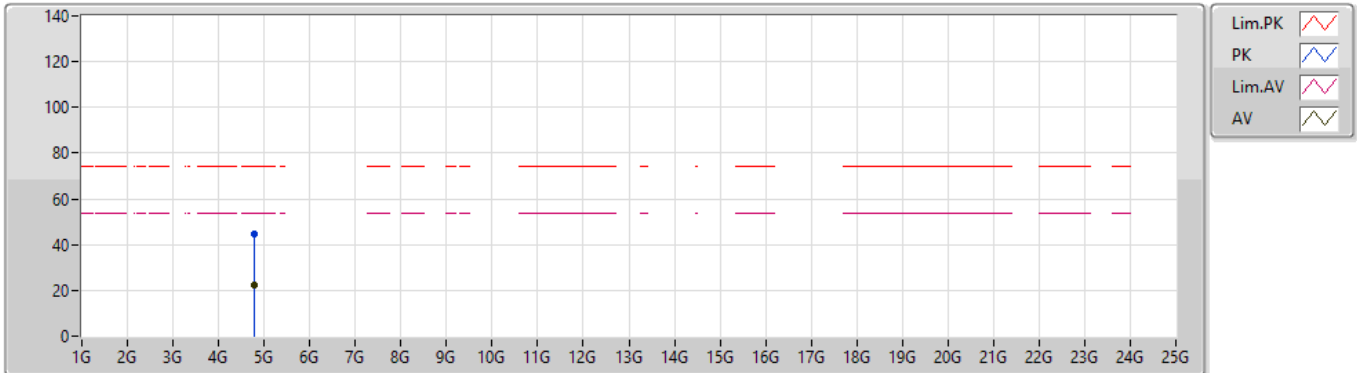


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3862G	35.87	54.00	-18.13	33.72	3	Horizontal	330	2.06	-	2.15	27.77	5.95	-
AV	2.4018G	82.86	Inf	-Inf	33.76	3	Horizontal	330	2.06	-	49.10	27.80	5.96	-
PK	2.3862G	58.37	74.00	-15.63	33.72	3	Horizontal	330	2.06	-	24.65	27.77	5.95	-
PK	2.4018G	105.36	Inf	-Inf	33.76	3	Horizontal	330	2.06	-	71.60	27.80	5.96	-

BT-BR(1Mbps)

17/05/2020

2402MHz_TX

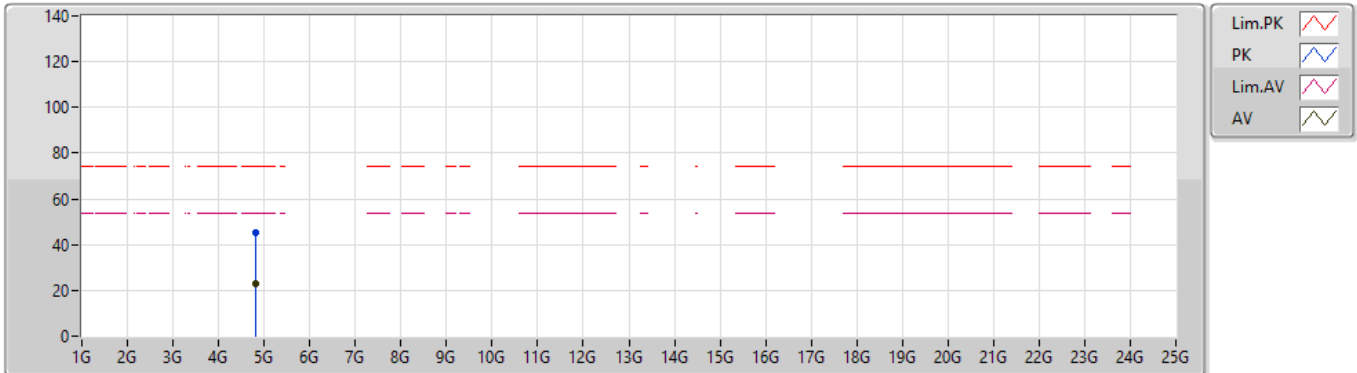


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.7977G	22.20	54.00	-31.80	5.64	3	Vertical	188	1.84	-	16.56	31.31	8.25	33.92
PK	4.7977G	44.70	74.00	-29.30	5.64	3	Vertical	188	1.84	-	39.06	31.31	8.25	33.92

BT-BR(1Mbps)

17/05/2020

2402MHz_TX

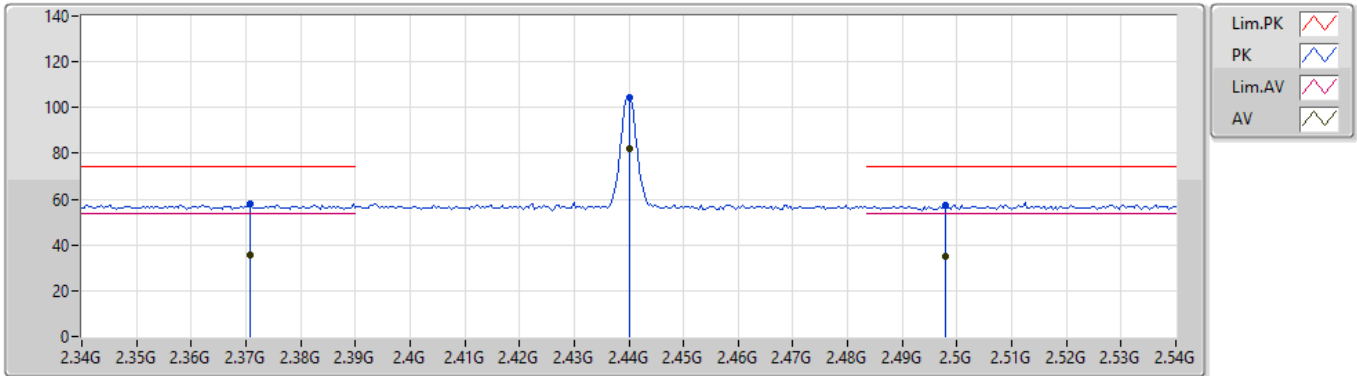


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80136G	23.04	54.00	-30.96	5.63	3	Horizontal	152	1.47	-	17.41	31.30	8.25	33.92
PK	4.80136G	45.54	74.00	-28.46	5.63	3	Horizontal	152	1.47	-	39.91	31.30	8.25	33.92

BT-BR(1Mbps)

17/05/2020

2440MHz_TX

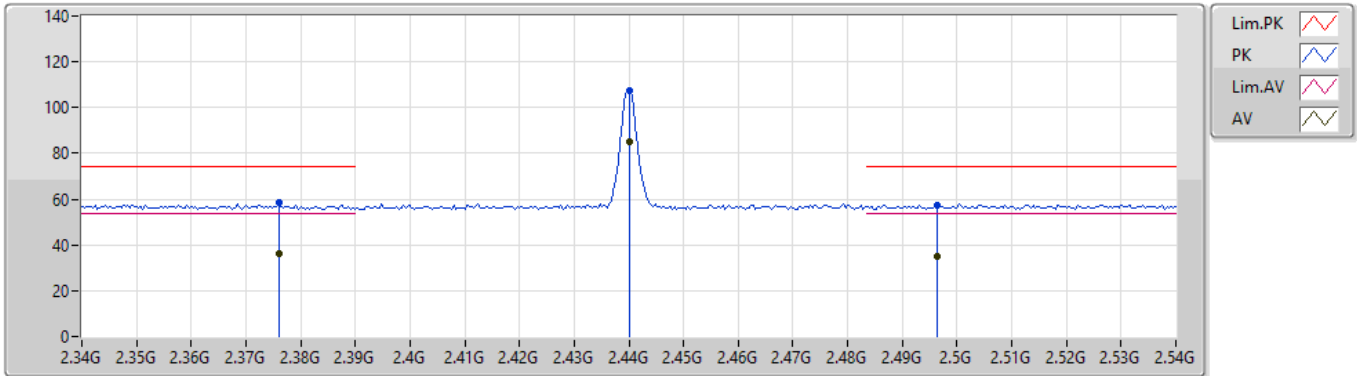


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3708G	35.68	54.00	-18.32	33.68	3	Vertical	40	1.62	-	2.00	27.74	5.94	-
AV	2.44G	81.97	Inf	-Inf	33.73	3	Vertical	40	1.62	-	48.24	27.72	6.01	-
AV	2.498G	35.00	54.00	-19.00	33.78	3	Vertical	40	1.62	-	1.22	27.70	6.08	-
PK	2.3708G	58.18	74.00	-15.82	33.68	3	Vertical	40	1.62	-	24.50	27.74	5.94	-
PK	2.44G	104.47	Inf	-Inf	33.73	3	Vertical	40	1.62	-	70.74	27.72	6.01	-
PK	2.498G	57.50	74.00	-16.50	33.78	3	Vertical	40	1.62	-	23.72	27.70	6.08	-

BT-BR(1Mbps)

17/05/2020

2440MHz_TX

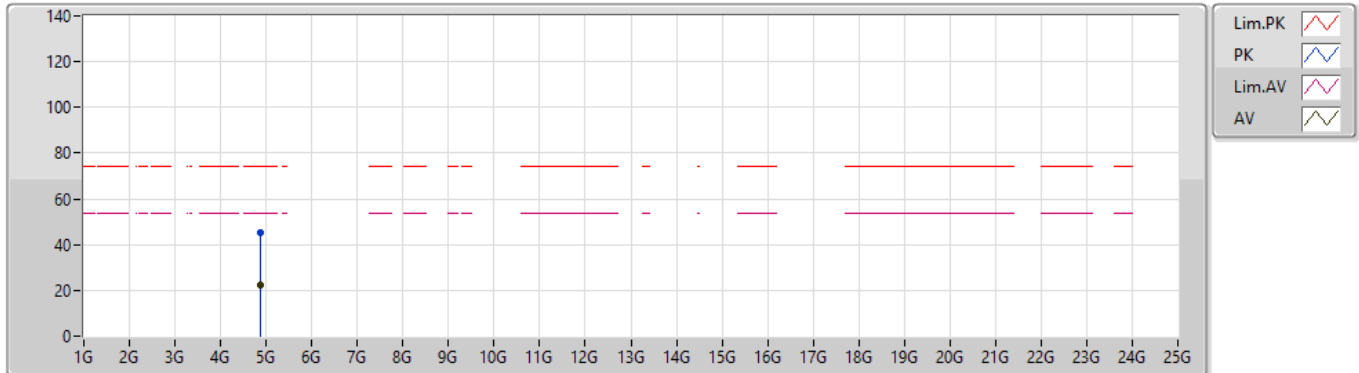


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.376G	35.94	54.00	-18.06	33.69	3	Horizontal	321	1.00	-	2.25	27.75	5.94	-
AV	2.44G	84.99	Inf	-Inf	33.73	3	Horizontal	321	1.00	-	51.26	27.72	6.01	-
AV	2.4964G	34.96	54.00	-19.04	33.78	3	Horizontal	321	1.00	-	1.18	27.70	6.08	-
PK	2.376G	58.44	74.00	-15.56	33.69	3	Horizontal	321	1.00	-	24.75	27.75	5.94	-
PK	2.44G	107.49	Inf	-Inf	33.73	3	Horizontal	321	1.00	-	73.76	27.72	6.01	-
PK	2.4964G	57.46	74.00	-16.54	33.78	3	Horizontal	321	1.00	-	23.68	27.70	6.08	-

BT-BR(1Mbps)

17/05/2020

2440MHz_TX

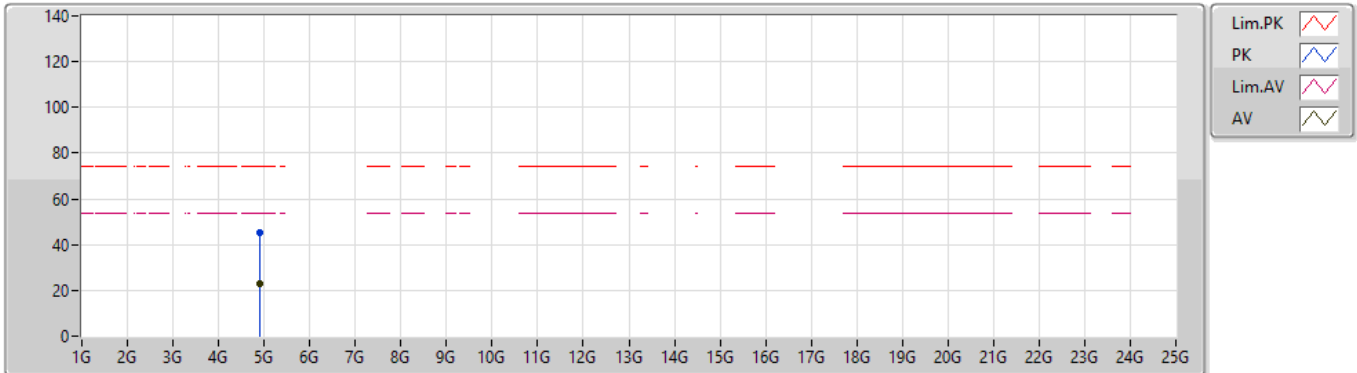


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88168G	22.60	54.00	-31.40	5.77	3	Vertical	0	1.49	-	16.83	31.34	8.30	33.87
PK	4.88168G	45.10	74.00	-28.90	5.77	3	Vertical	0	1.49	-	39.33	31.34	8.30	33.87

BT-BR(1Mbps)

17/05/2020

2440MHz_TX

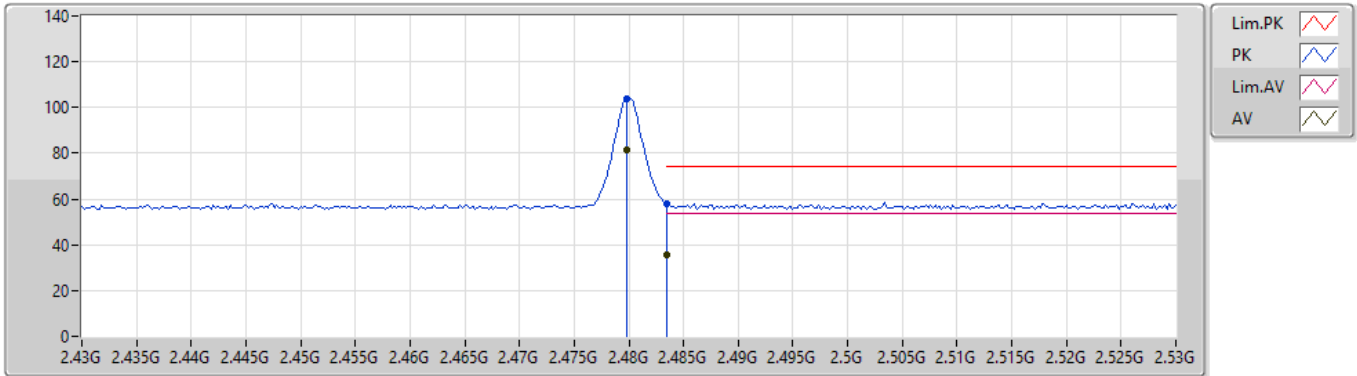


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.89416G	22.84	54.00	-31.16	5.76	3	Horizontal	153	1.66	-	17.08	31.31	8.31	33.86
PK	4.89416G	45.34	74.00	-28.66	5.76	3	Horizontal	153	1.66	-	39.58	31.31	8.31	33.86

BT-BR(1Mbps)

17/05/2020

2480MHz_TX

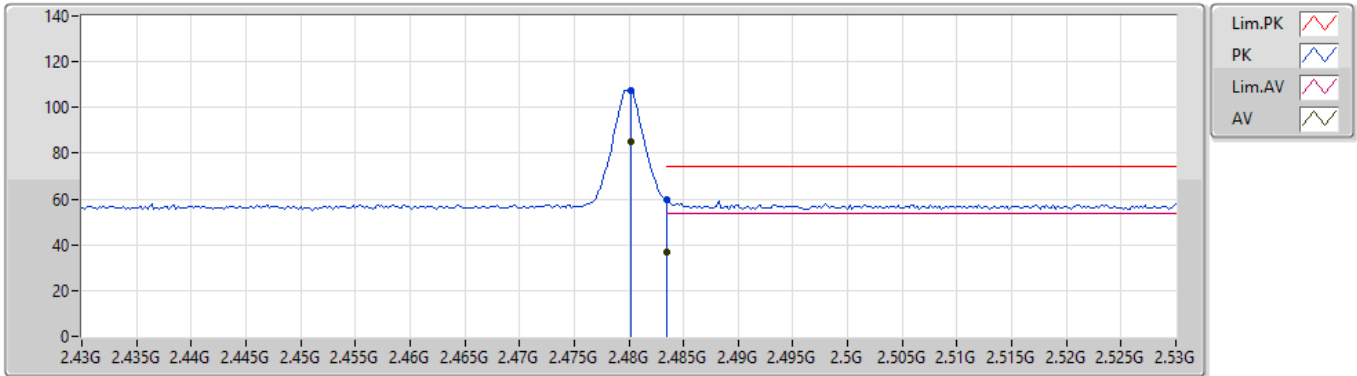


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	81.20	Inf	-Inf	33.76	3	Vertical	42	1.27	-	47.44	27.70	6.06	-
AV	2.4835G	35.68	54.00	-18.32	33.76	3	Vertical	42	1.27	-	1.92	27.70	6.06	-
PK	2.4798G	103.70	Inf	-Inf	33.76	3	Vertical	42	1.27	-	69.94	27.70	6.06	-
PK	2.4835G	58.18	74.00	-15.82	33.76	3	Vertical	42	1.27	-	24.42	27.70	6.06	-

BT-BR(1Mbps)

17/05/2020

2480MHz_TX

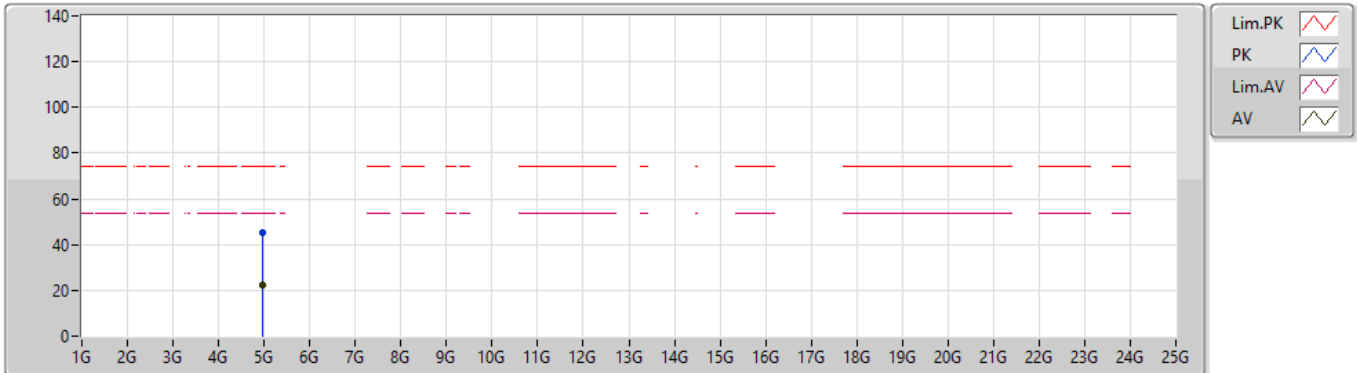


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4802G	85.00	Inf	-Inf	33.76	3	Horizontal	333	2.27	-	51.24	27.70	6.06	-
AV	2.4835G	37.05	54.00	-16.95	33.76	3	Horizontal	333	2.27	-	3.29	27.70	6.06	-
PK	2.4802G	107.50	Inf	-Inf	33.76	3	Horizontal	333	2.27	-	73.74	27.70	6.06	-
PK	2.4835G	59.55	74.00	-14.45	33.76	3	Horizontal	333	2.27	-	25.79	27.70	6.06	-

BT-BR(1Mbps)

17/05/2020

2480MHz_TX

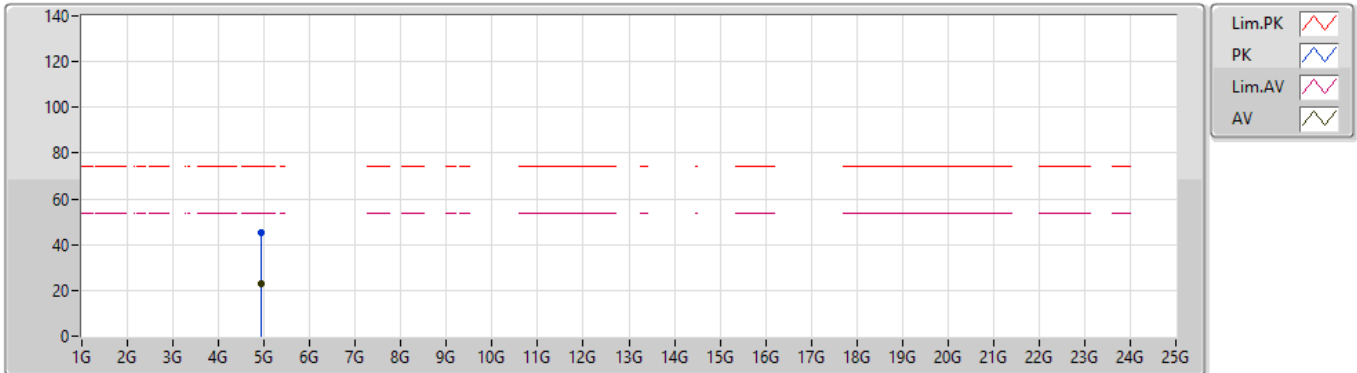


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96732G	22.51	54.00	-31.49	6.04	3	Vertical	360	2.09	-	16.47	31.50	8.36	33.82
PK	4.96732G	45.01	74.00	-28.99	6.04	3	Vertical	360	2.09	-	38.97	31.50	8.36	33.82

BT-BR(1Mbps)

17/05/2020

2480MHz_TX

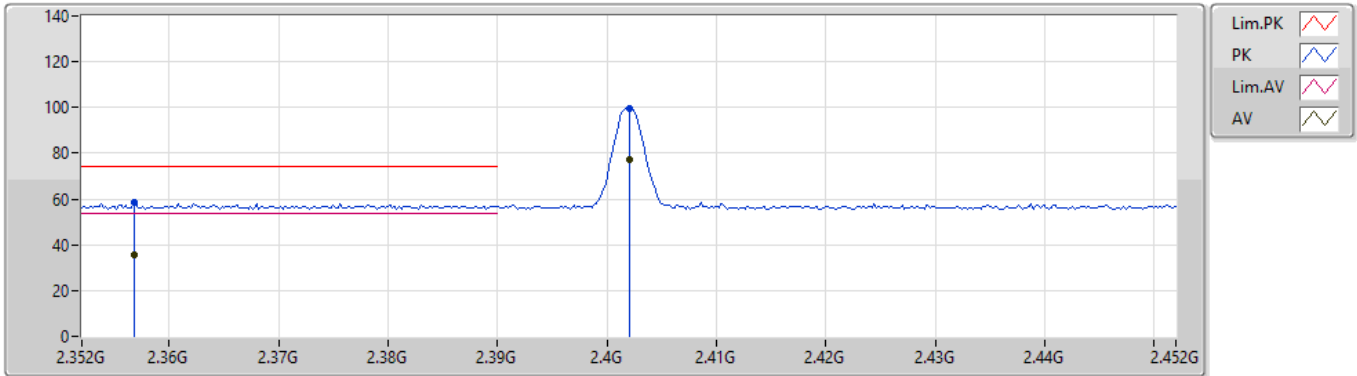


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.94644G	22.68	54.00	-31.32	5.91	3	Horizontal	136	1.48	-	16.77	31.39	8.35	33.83
PK	4.94644G	45.18	74.00	-28.82	5.91	3	Horizontal	136	1.48	-	39.27	31.39	8.35	33.83

BT-EDR(3Mbps)

17/05/2020

2402MHz_TX

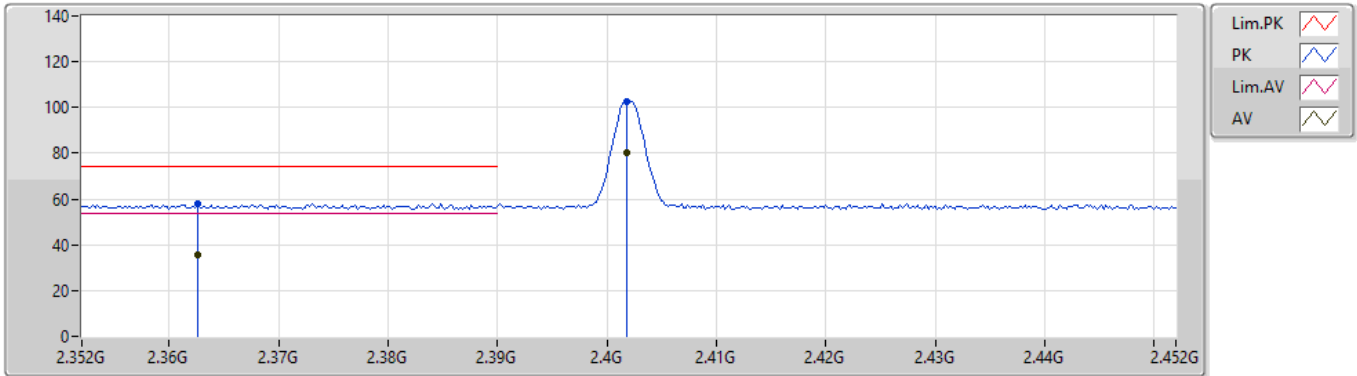


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3568G	35.79	54.00	-18.21	33.64	3	Vertical	36	2.08	-	2.15	27.71	5.93	-
AV	2.402G	77.30	Inf	-Inf	33.76	3	Vertical	36	2.08	-	43.54	27.80	5.96	-
PK	2.3568G	58.29	74.00	-15.71	33.64	3	Vertical	36	2.08	-	24.65	27.71	5.93	-
PK	2.402G	99.80	Inf	-Inf	33.76	3	Vertical	36	2.08	-	66.04	27.80	5.96	-

BT-EDR(3Mbps)

17/05/2020

2402MHz_TX

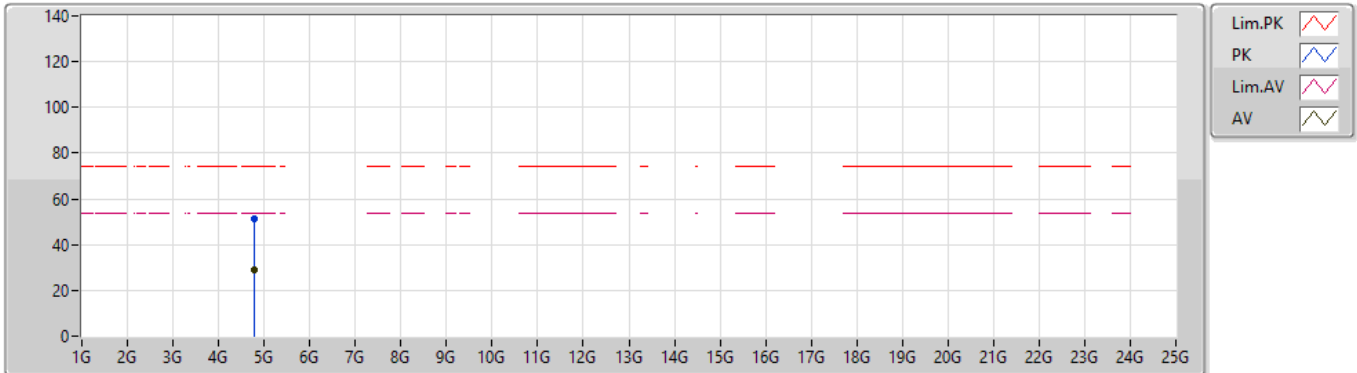


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3626G	35.71	54.00	-18.29	33.66	3	Horizontal	329	2.05	-	2.05	27.73	5.93	-
AV	2.4018G	80.30	Inf	-Inf	33.76	3	Horizontal	329	2.05	-	46.54	27.80	5.96	-
PK	2.3626G	58.21	74.00	-15.79	33.66	3	Horizontal	329	2.05	-	24.55	27.73	5.93	-
PK	2.4018G	102.80	Inf	-Inf	33.76	3	Horizontal	329	2.05	-	69.04	27.80	5.96	-

BT-EDR(3Mbps)

17/05/2020

2402MHz_TX

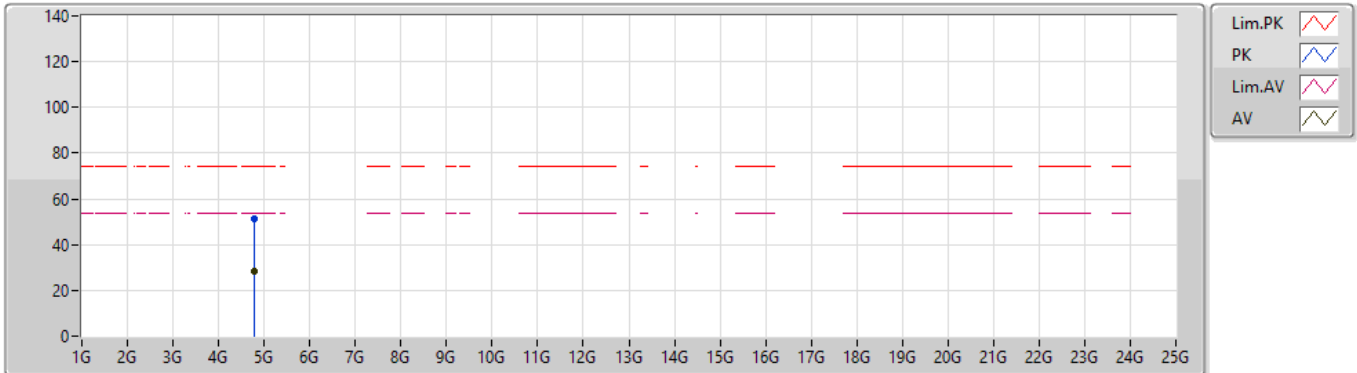


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.79368G	29.09	54.00	-24.91	5.66	3	Vertical	336	2.13	-	23.43	31.33	8.25	33.92
PK	4.79368G	51.59	74.00	-22.41	5.66	3	Vertical	336	2.13	-	45.93	31.33	8.25	33.92

BT-EDR(3Mbps)

17/05/2020

2402MHz_TX

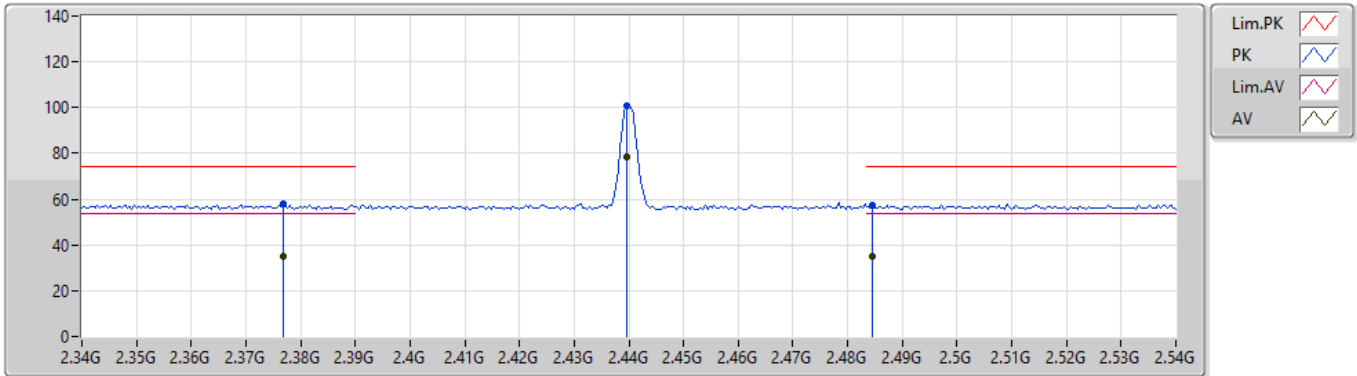


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.79182G	28.60	54.00	-25.40	5.66	3	Horizontal	336	2.13	-	22.94	31.33	8.25	33.92
PK	4.79182G	51.10	74.00	-22.90	5.66	3	Horizontal	336	2.13	-	45.44	31.33	8.25	33.92

BT-EDR(3Mbps)

17/05/2020

2440MHz_TX

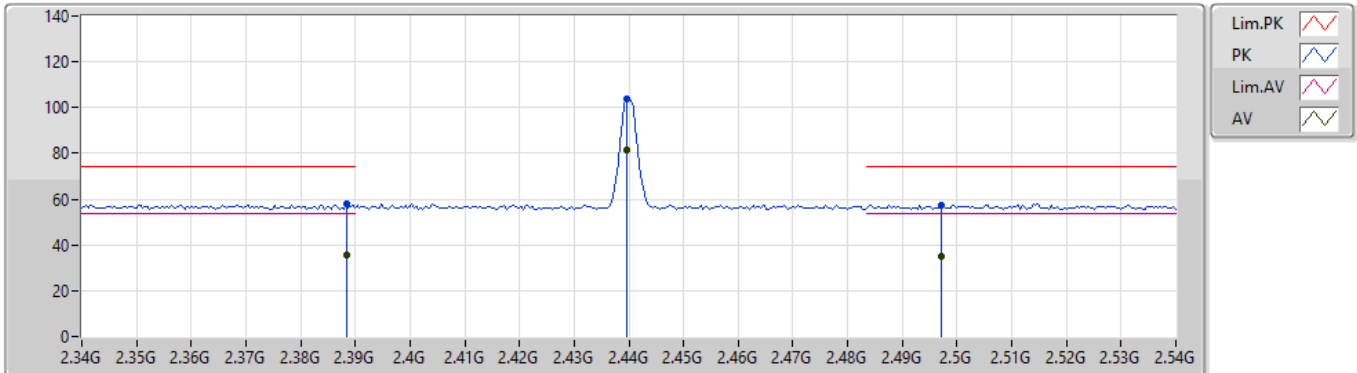


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3768G	35.14	54.00	-18.86	33.69	3	Vertical	40	1.60	-	1.45	27.75	5.94	-
AV	2.4396G	78.16	Inf	-Inf	33.73	3	Vertical	40	1.60	-	44.43	27.72	6.01	-
AV	2.4844G	34.85	54.00	-19.15	33.76	3	Vertical	40	1.60	-	1.09	27.70	6.06	-
PK	2.3768G	57.64	74.00	-16.36	33.69	3	Vertical	40	1.60	-	23.95	27.75	5.94	-
PK	2.4396G	100.66	Inf	-Inf	33.73	3	Vertical	40	1.60	-	66.93	27.72	6.01	-
PK	2.4844G	57.35	74.00	-16.65	33.76	3	Vertical	40	1.60	-	23.59	27.70	6.06	-

BT-EDR(3Mbps)

17/05/2020

2440MHz_TX

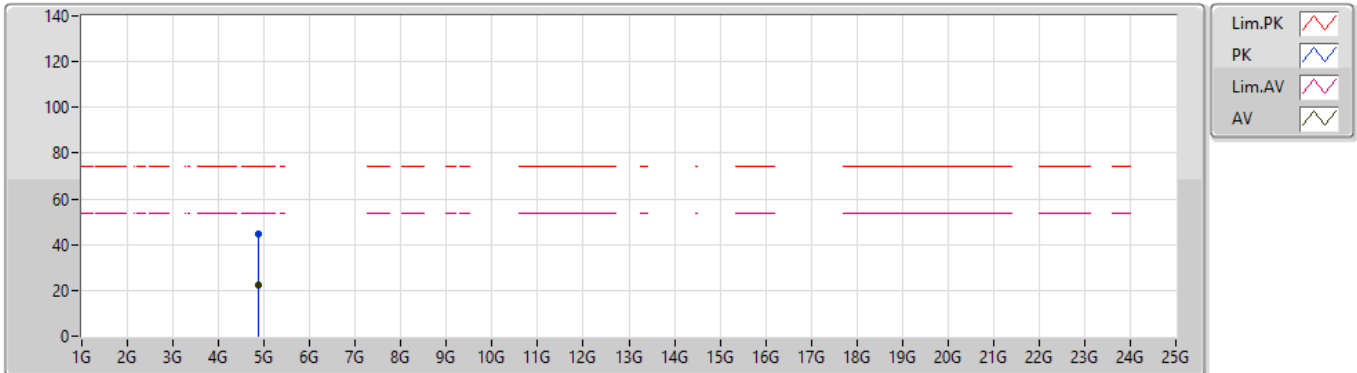


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3884G	35.60	54.00	-18.40	33.73	3	Horizontal	321	1.00	-	1.87	27.78	5.95	-
AV	2.4396G	81.21	Inf	-Inf	33.73	3	Horizontal	321	1.00	-	47.48	27.72	6.01	-
AV	2.4972G	35.04	54.00	-18.96	33.78	3	Horizontal	321	1.00	-	1.26	27.70	6.08	-
PK	2.3884G	58.10	74.00	-15.90	33.73	3	Horizontal	321	1.00	-	24.37	27.78	5.95	-
PK	2.4396G	103.71	Inf	-Inf	33.73	3	Horizontal	321	1.00	-	69.98	27.72	6.01	-
PK	2.4972G	57.54	74.00	-16.46	33.78	3	Horizontal	321	1.00	-	23.76	27.70	6.08	-

BT-EDR(3Mbps)

17/05/2020

2440MHz_TX

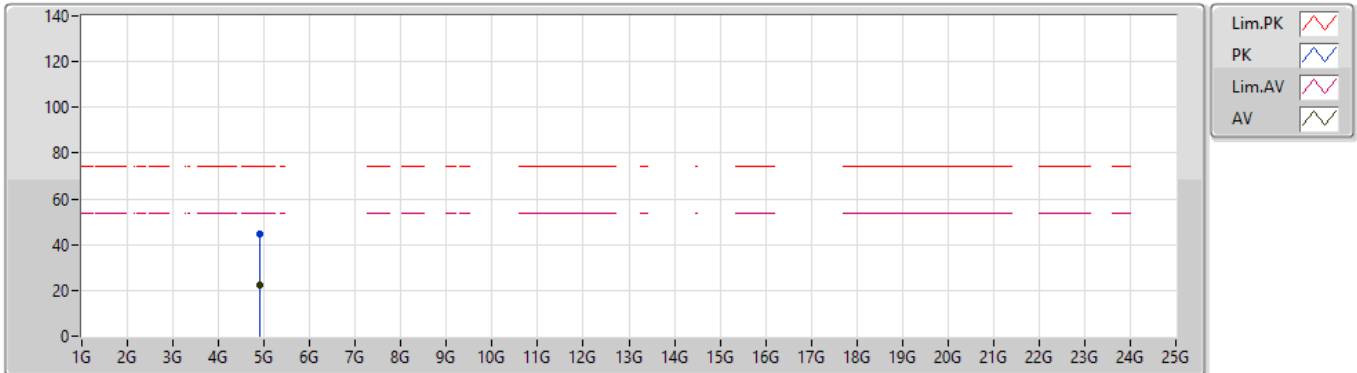


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87892G	22.33	54.00	-31.67	5.77	3	Vertical	336	2.13	-	16.56	31.34	8.30	33.87
PK	4.87892G	44.83	74.00	-29.17	5.77	3	Vertical	336	2.13	-	39.06	31.34	8.30	33.87

BT-EDR(3Mbps)

17/05/2020

2440MHz_TX

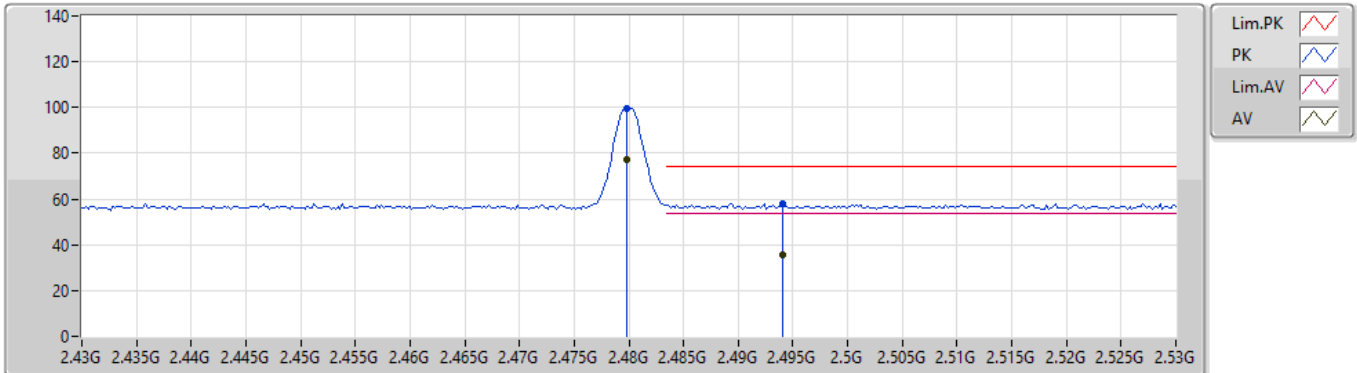


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.89014G	22.07	54.00	-31.93	5.77	3	Horizontal	214	1.50	-	16.30	31.32	8.31	33.86
PK	4.89014G	44.57	74.00	-29.43	5.77	3	Horizontal	214	1.50	-	38.80	31.32	8.31	33.86

BT-EDR(3Mbps)

17/05/2020

2480MHz_TX

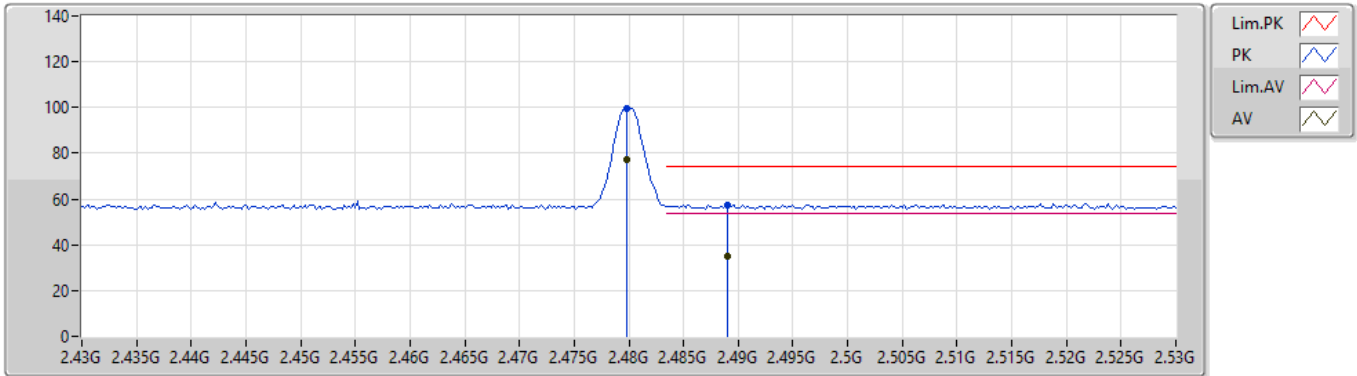


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	77.30	Inf	-Inf	33.76	3	Vertical	43	1.48	-	43.54	27.70	6.06	-
AV	2.494G	35.35	54.00	-18.65	33.77	3	Vertical	43	1.48	-	1.58	27.70	6.07	-
PK	2.4798G	99.80	Inf	-Inf	33.76	3	Vertical	43	1.48	-	66.04	27.70	6.06	-
PK	2.494G	57.85	74.00	-16.15	33.77	3	Vertical	43	1.48	-	24.08	27.70	6.07	-

BT-EDR(3Mbps)

17/05/2020

2480MHz_TX

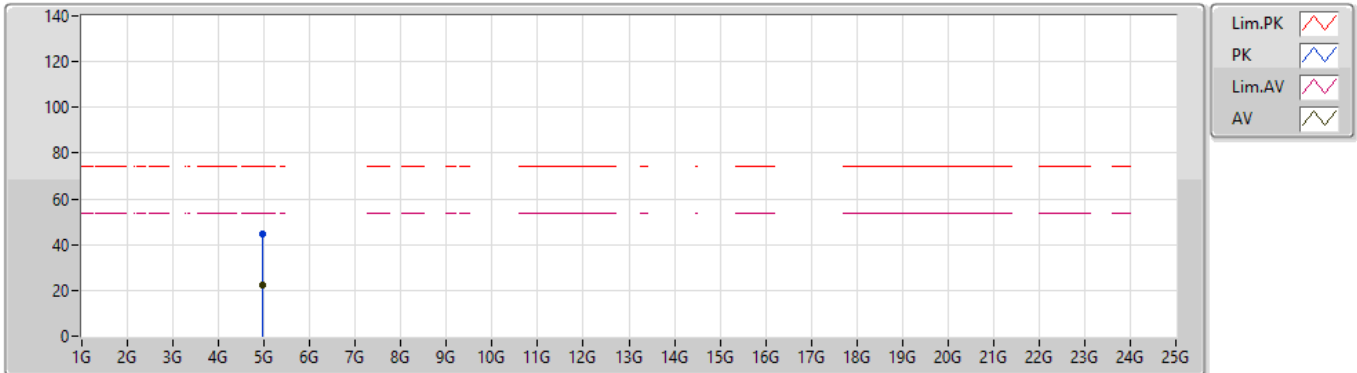


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	77.26	Inf	-Inf	33.76	3	Horizontal	347	2.25	-	43.50	27.70	6.06	-
AV	2.489G	35.09	54.00	-18.91	33.77	3	Horizontal	347	2.25	-	1.32	27.70	6.07	-
PK	2.4798G	99.76	Inf	-Inf	33.76	3	Horizontal	347	2.25	-	66.00	27.70	6.06	-
PK	2.489G	57.59	74.00	-16.41	33.77	3	Horizontal	347	2.25	-	23.82	27.70	6.07	-

BT-EDR(3Mbps)

17/05/2020

2480MHz_TX

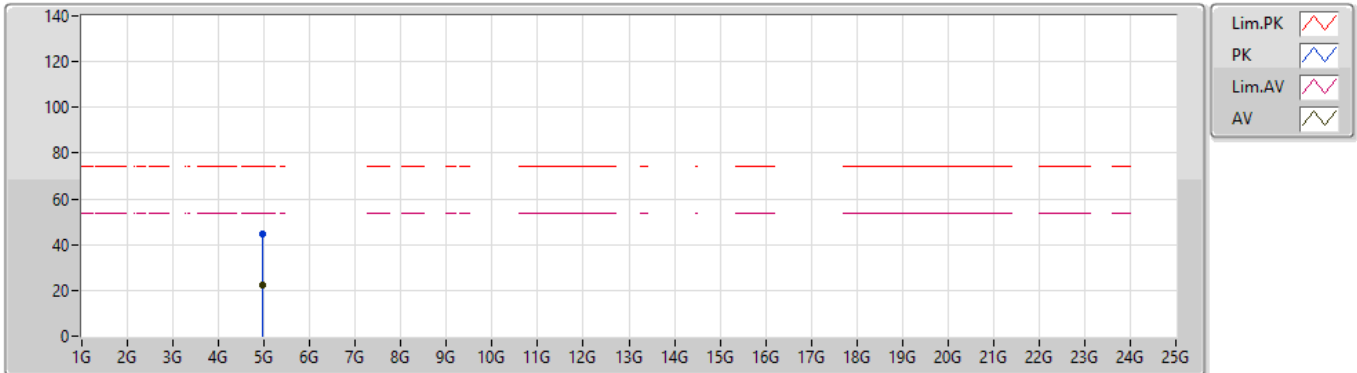


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95448G	22.29	54.00	-31.71	5.95	3	Vertical	268	1.28	-	16.34	31.43	8.35	33.83
PK	4.95448G	44.79	74.00	-29.21	5.95	3	Vertical	268	1.28	-	38.84	31.43	8.35	33.83

BT-EDR(3Mbps)

17/05/2020

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	4.9651G	22.30	54.00	-31.70	6.03	3	Horizontal	0	1.50	-	16.27	31.49	8.36	33.82
PK	4.9651G	44.80	74.00	-29.20	6.03	3	Horizontal	0	1.50	-	38.77	31.49	8.36	33.82