



FCC RADIO TEST REPORT

FCC ID : RAXWN8122B
Equipment : Wi-Fi MODU
Brand Name : Arcadyan
Model Name : WN8122BTEAC-HF-CP
Applicant : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan
Manufacturer : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 20, 2018, and testing was started from Apr. 20, 2018 and completed on Jun. 04, 2018. 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0



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 Band edge	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	-

Reviewed by: Sam Chen

Report Producer: Viola Huang



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.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2, 3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	P/N	Antenna Type	Connector	Gain (dBi)			Remark
						WLAN 2.4GHz	WLAN 5GHz	BT	
1	1	arcadyan	-	Printed Antenna	N/A	3.5	4.7	-	Internal antenna
2	2	arcadyan	-	Printed Antenna	N/A	0.8	3.8	-	
3	1	arcadyan	120800060900J	PIFA Antenna	I-PEX	0.1	3.16	-	External antenna
4	2	arcadyan	120800060400J	PIFA Antenna	I-PEX	-0.7	3.25	-	
5	1	arcadyan	120800060300J	PIFA Antenna	I-PEX	-	-	2.04	

Note: The EUT has five antennas.

For 2.4GHz function:

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

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

Port 1 and Port 2 could transmit/receive simultaneously.

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-BR(1Mbps)	0.575	2.403	2.878m	1k
BT-EDR(2Mbps)	0.577	2.388	2.883m	1k
BT-EDR(3Mbps)	0.576	2.396	2.883m	1k

1.1.4 EUT Operational Condition

EUT Power Type	From host system
Test Software Version	QA Tool_Dbg Version:0.0.1.85

1.1.5 Table for Multiple Listing

Brand Name	Model Name	EUT No.	Description
Arcadyan	WN8122BTEAC-HF-CP	EUT 1	The EUT equips internal antenna for WLAN function.
		EUT 2	The EUT equips external antenna for WLAN function.



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
- ♦ FCC Public Notice DA 00-705
- ♦ FCC KDB 412172 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
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Brian Sun & Serway Li & Owen Hsu	22°C / 52%	May 09, 2018~May 10, 2018
Radiated (Below 1GHz)	03CH01-CB	Cola Fan & Eddie Weng & Mason Chen & Stim Sung	25°C / 56%	May 30, 2018
Radiated (Above 1GHz)	03CH01-CB	Cola Fan & Eddie Weng & Mason Chen & Stim Sung	25°C / 56%	Apr. 20, 2018~May 30, 2018
AC Conduction	CO02-CB	Tony Chang	23°C / 60%	Jun. 04, 2018

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

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)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Bandwidth Measurement	9.74×10^{-8}	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	PowerSetting
BT-BR(1Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7
BT-EDR(2Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7
BT-EDR(3Mbps)	-
2402MHz	7
2440MHz	7
2480MHz	7

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	EUT 1: 2.4GHz + Bluetooth
2	EUT 1: 5GHz + Bluetooth
3	EUT 2: 2.4GHz + Bluetooth
4	EUT 2: 5GHz + Bluetooth
For operating mode 1 is the worst case and it was record in this test report.	

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
Operating Mode	CTX
1	EUT 2

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	Normal Link
1	EUT 1 in Z axis: 2.4GHz + Bluetooth
2	EUT 1 in Z axis: 5GHz + Bluetooth
3	EUT 2 in Z axis: 2.4GHz + Bluetooth
4	EUT 2 in Z axis: 5GHz + Bluetooth
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT 2 in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1: 2.4GHz + Bluetooth
2	EUT 1: 5GHz + Bluetooth
3	EUT 2: 2.4GHz + Bluetooth
4	EUT 2: 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA842718 for Co-location RF Exposure Evaluation.	

Note: For conducted test and Radiated measurement above 1GHz, only the EUT 2 was tested and recorded in the test report.

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A



2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	N/A
2	NB	ASUS	PRO88Q	N/A
3	AP Router	ASUS	RP-N53	MSQ-RPN53
4	iPhone 4	Apple	A1332	BCG-E2380A
5	Earphone	SHYARO CHI	MIC-04	N/A
6	Mouse	Logitech	M-U0026	N/A

For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	N/A
2	NB	ASUS	PRO88Q	N/A
3	WLAN AP	D-LINK	DIR860L	KA2IR860LA1
4	iPhone 4	Apple	A1332	BCG-E2380A
5	Earphone	SHYARO CHI	MIC-04	N/A
6	Mouse	Logitech	M-U0026	N/A

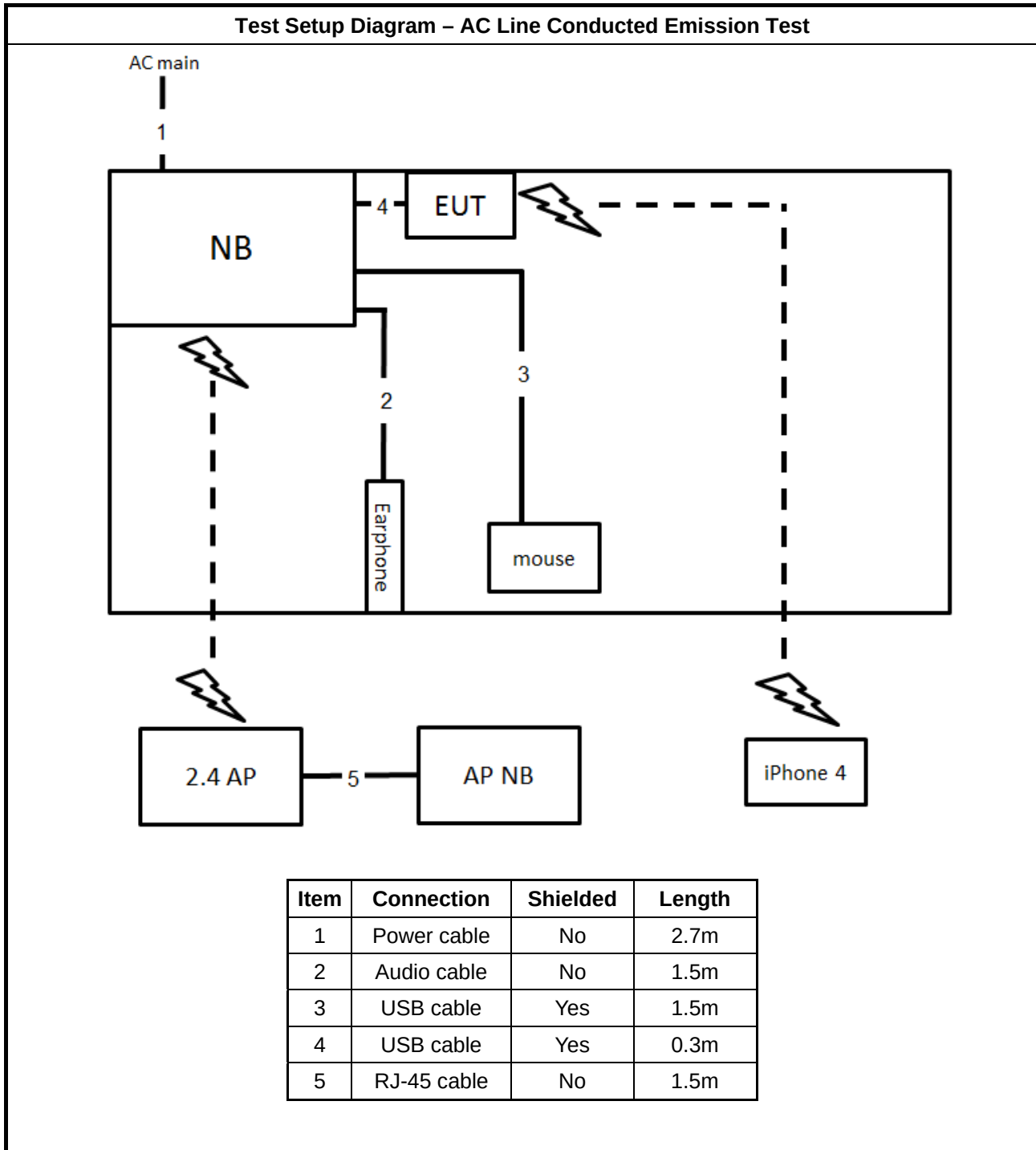
For Test Site No: 03CH01-CB (above 1GHz)

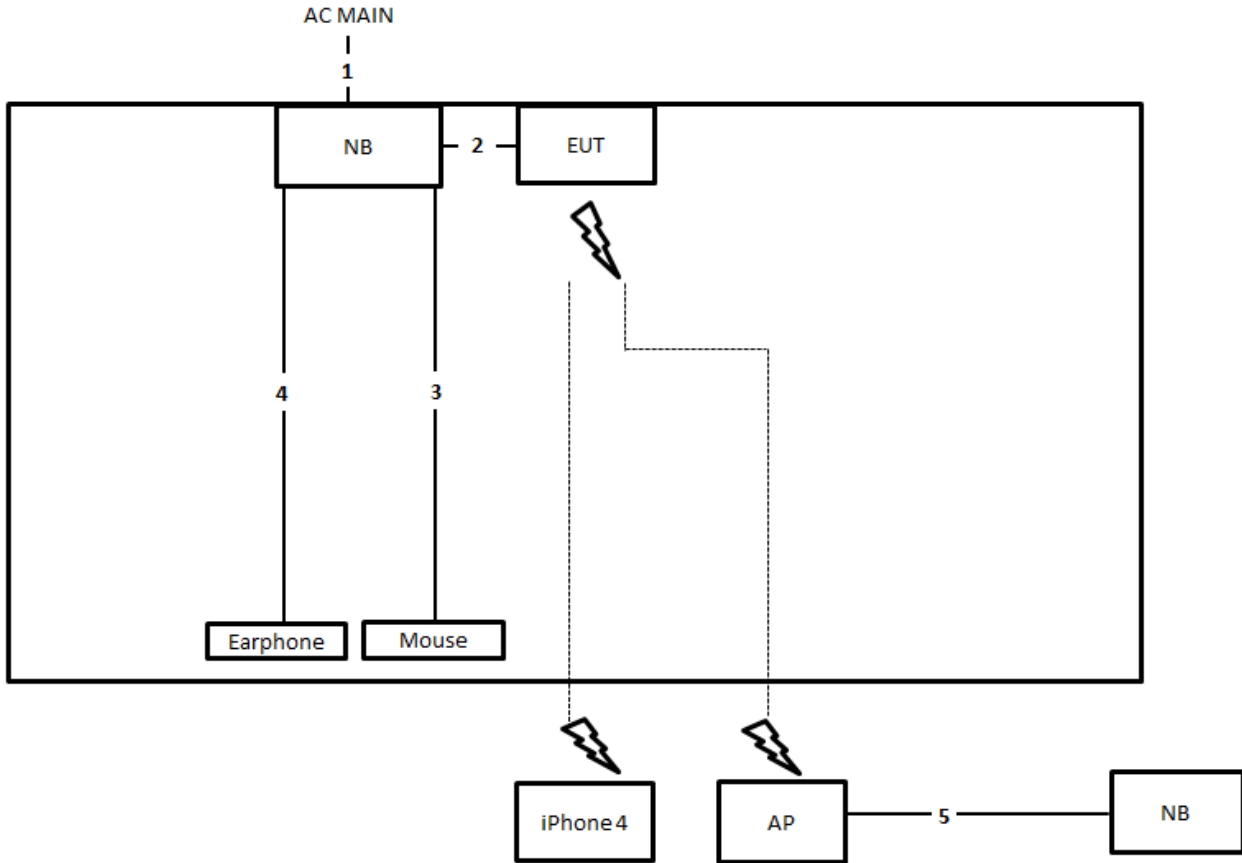
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	N/A

For Test Site No: TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	N/A

2.6 Test Setup Diagram

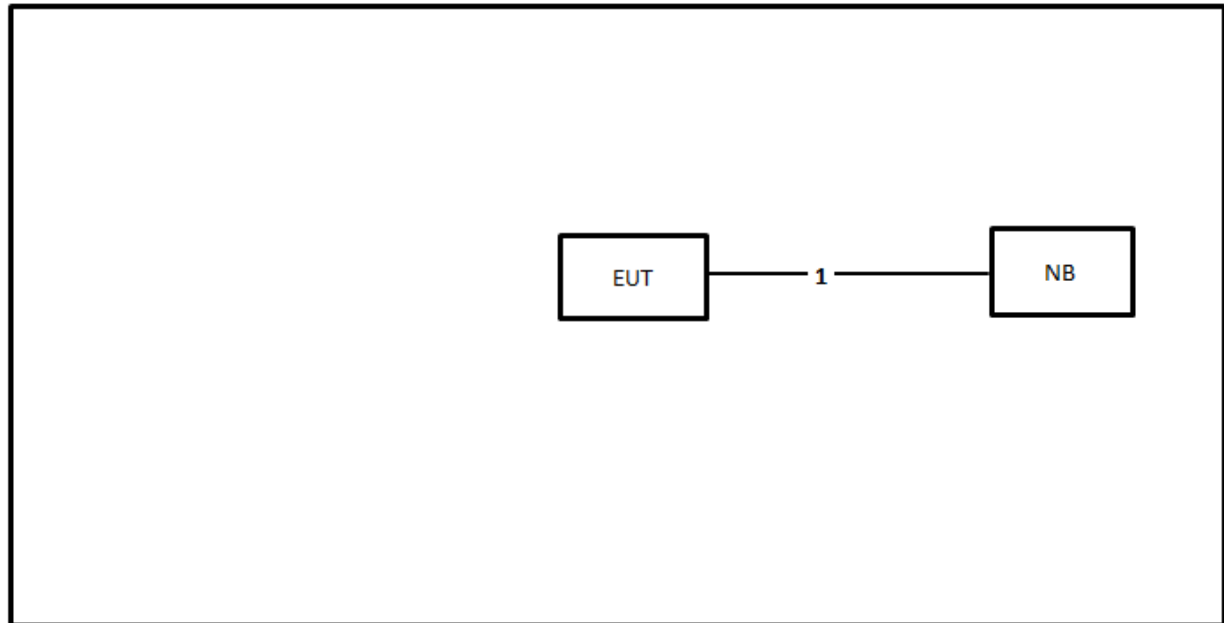


Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	2.5m
2	USB cable	Yes	1.5m
3	USB cable	Yes	1.8m
4	Audio cable	No	1.1m
5	RJ-45 cable	No	1.5m



Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	USB cable	Yes	1.5m



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.		

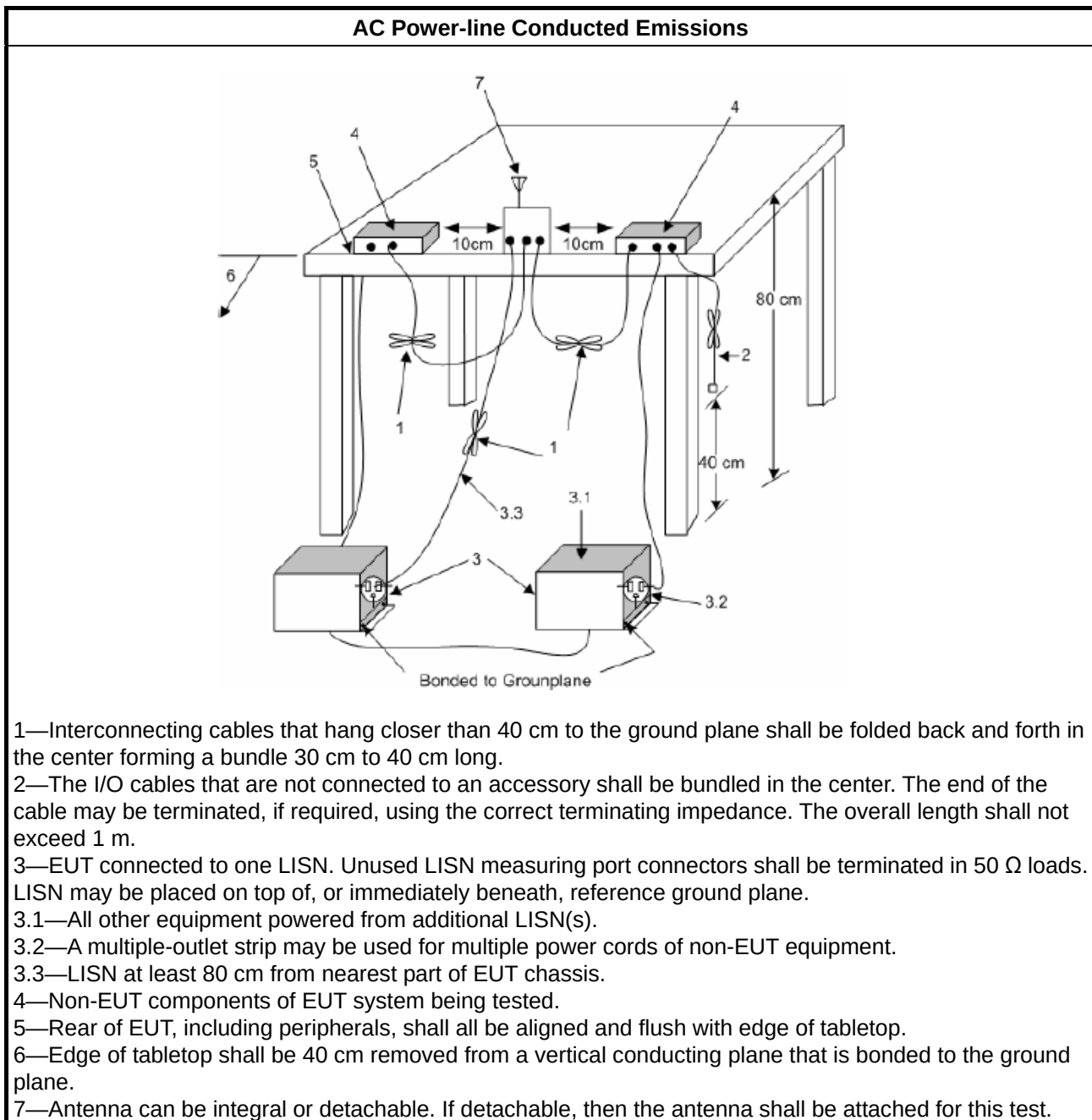
3.1.2 Measuring Instruments

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 Test Setup



3.1.5 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	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq \text{MAX}$ (20 dB bandwidth 2/3, 25 kHz).
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 1 MHz.
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

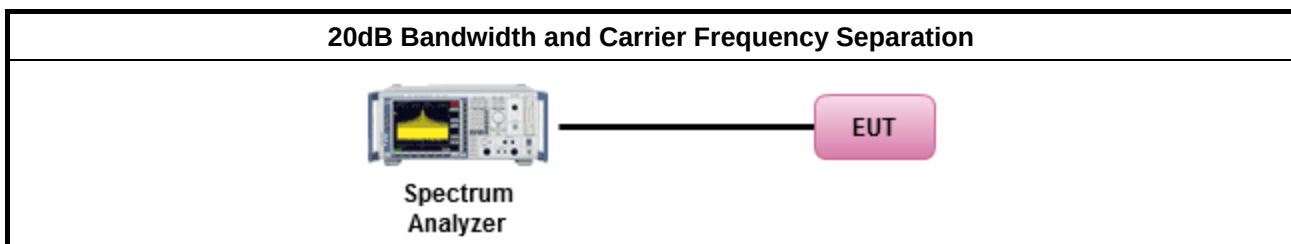
3.2.2 Measuring Instruments

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 6.9.1 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



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	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$; Power 30dBm; EIRP 36dBm
	▪ $50 > N \geq 25$; Power 24dBm; EIRP 30dBm
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$; Power 30dBm; EIRP 36dBm
	▪ $75 > N \geq 15$; Power 21dBm; EIRP 27dBm
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$; Power 30dBm; EIRP 36dBm
N: Number of Hopping Frequencies	

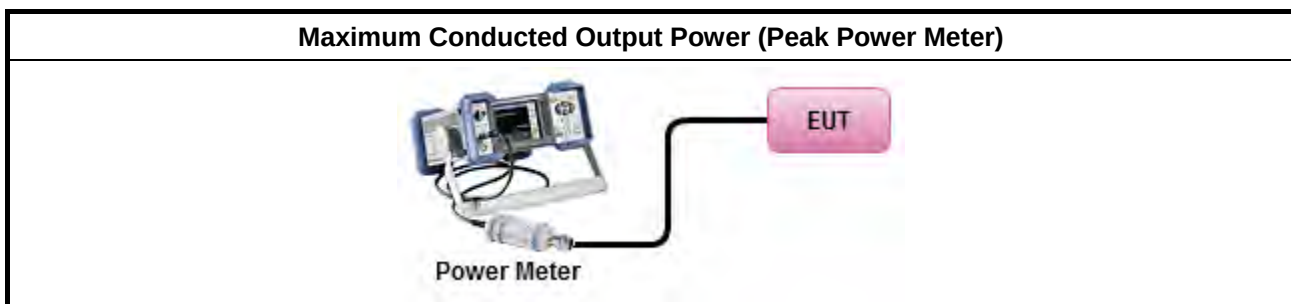
3.3.2 Measuring Instruments

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



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	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq \text{MAX}$ (20 dB bandwidth 2/3, 25 kHz).
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 1 MHz.
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

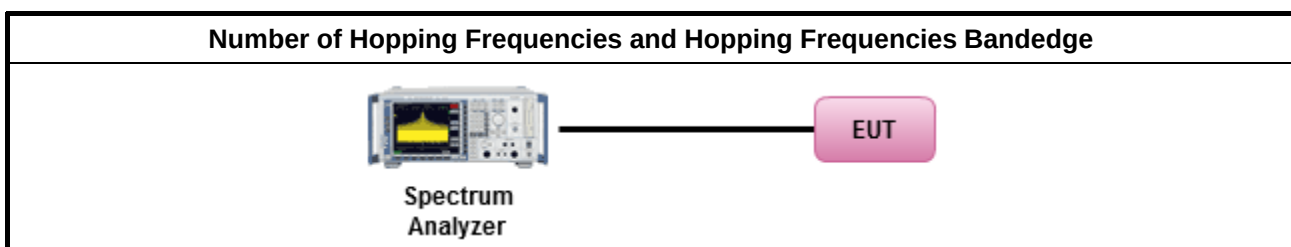
3.4.3 Measuring Instruments

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



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

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$; 0.4s in 20s period
	▪ $50 > N \geq 25$; 0.4s in 10s period
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$; 0.4s in $N \times 0.4$ period
	▪ $75 > N \geq 15$; 0.4s in $N \times 0.4$ period
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$; 0.4s in 30s period
N: Number of Hopping Frequencies	

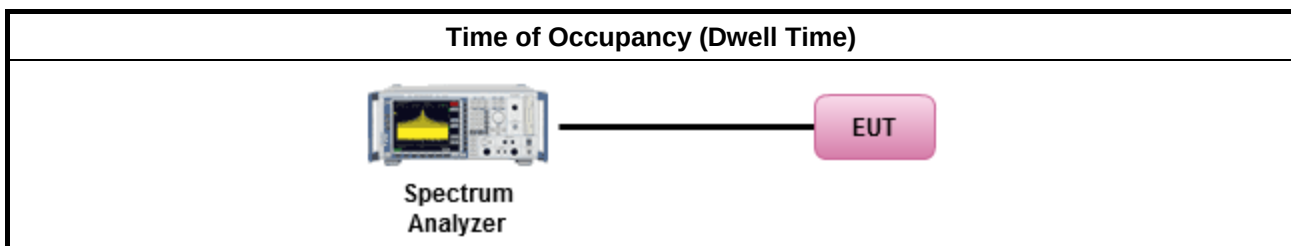
3.5.2 Measuring Instruments

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



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.	

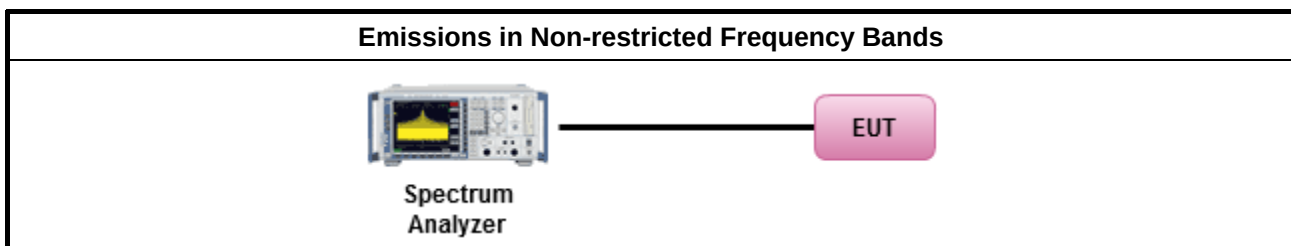
3.6.2 Measuring Instruments

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



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.

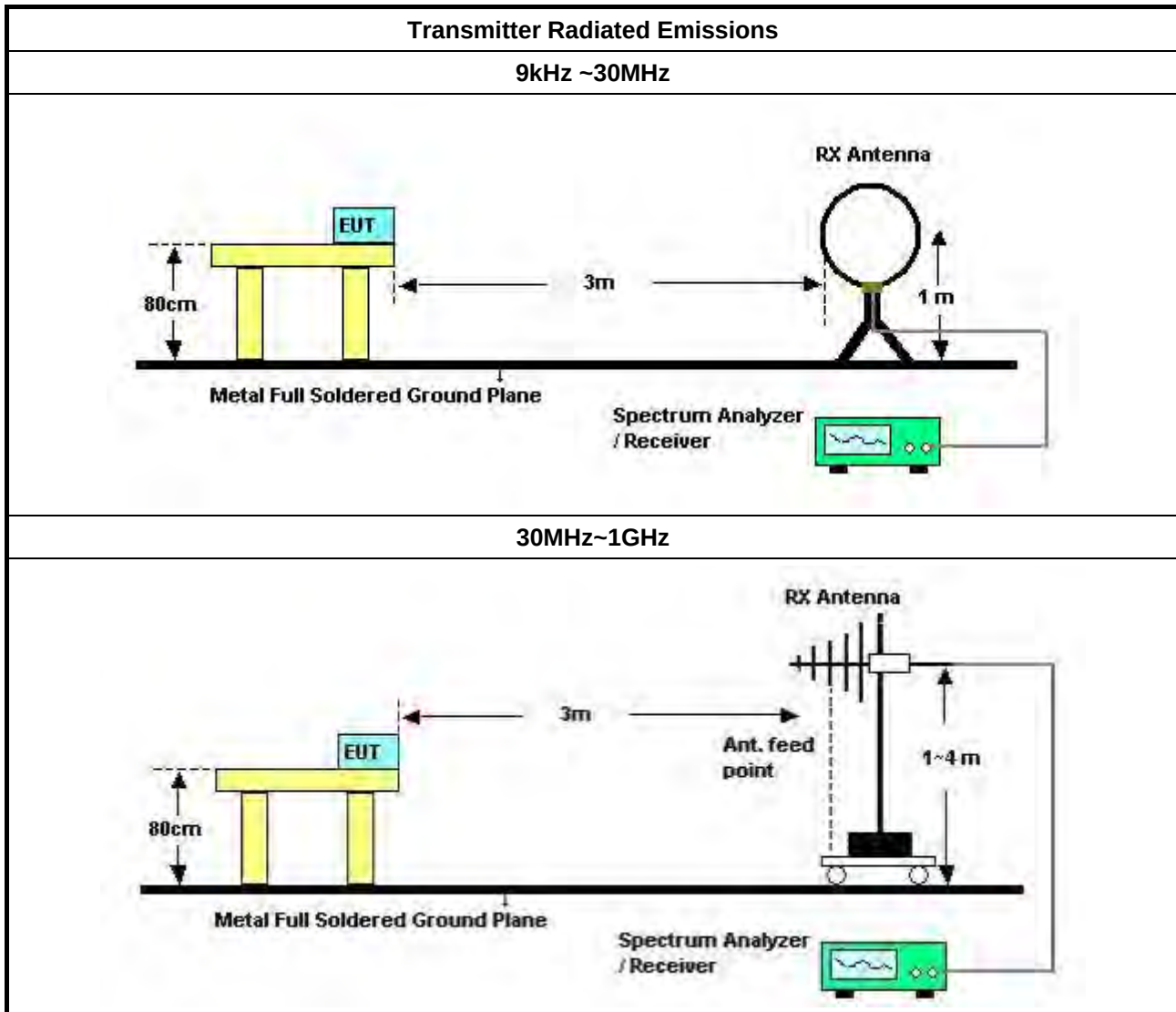
3.7.2 Measuring Instruments

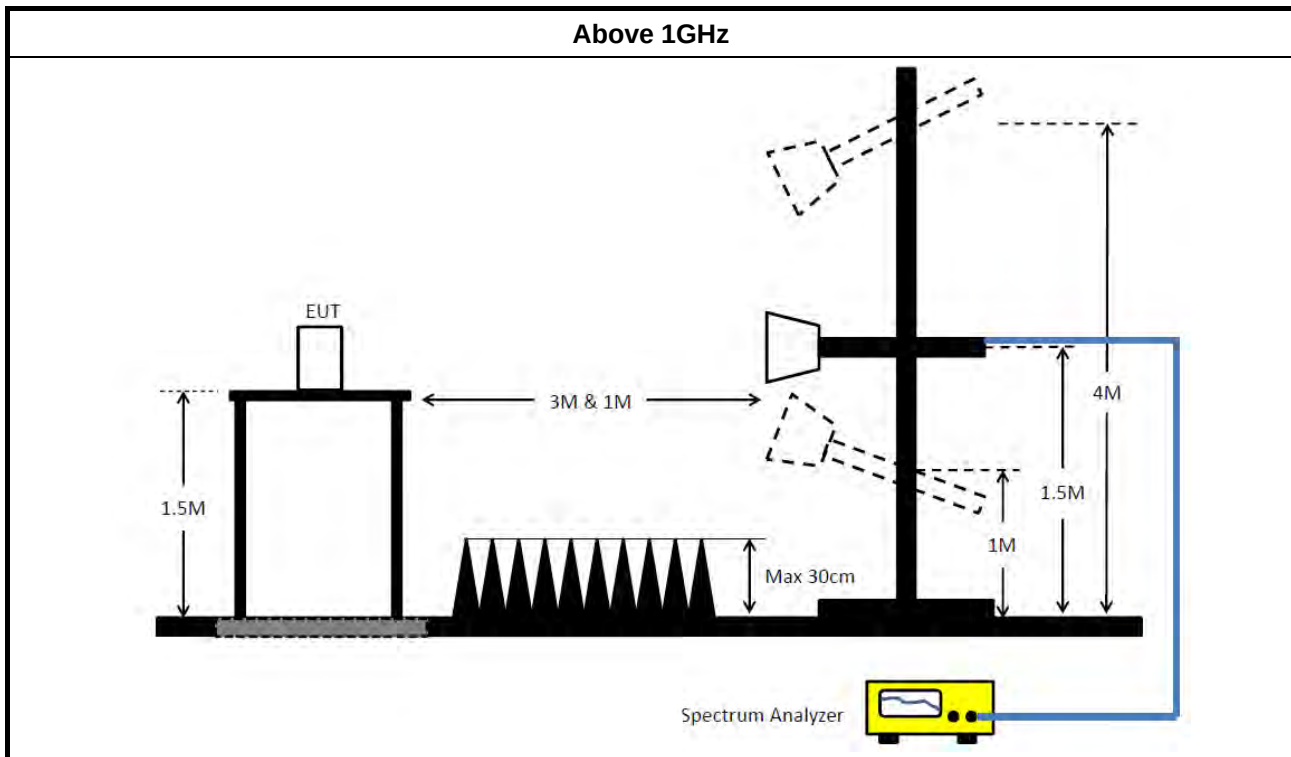
Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [hopping duty factor].	
▪ Refer as ANSI C63.10; clause 6.9.2.2 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.

3.7.4 Test Setup





3.7.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.7.6 Transmitter Radiated Unwanted Emissions

Refer as Appendix G



4 Test Equipment and Calibration Data

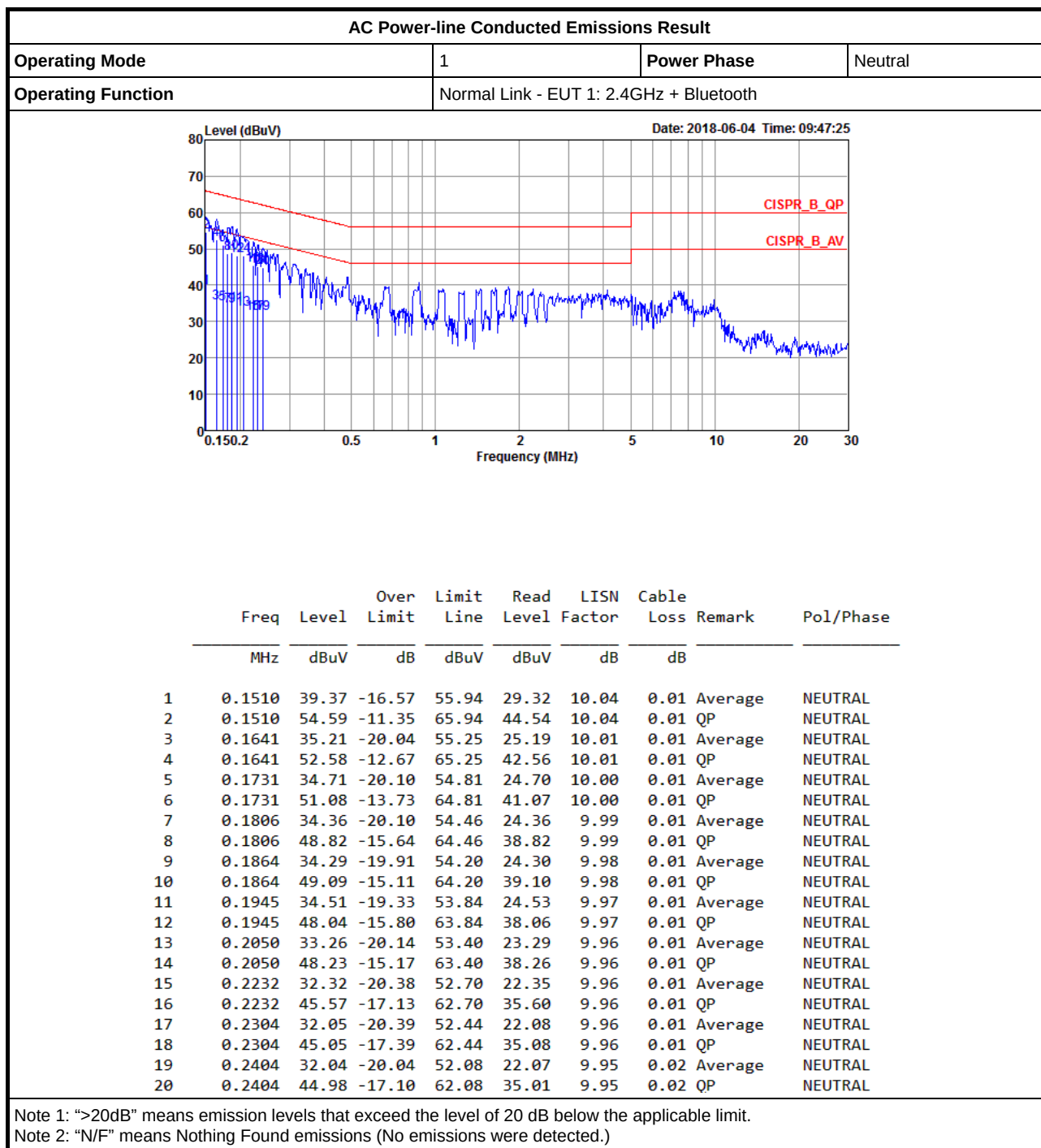
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 24, 2017	Nov. 23, 2018	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 13, 2017	Nov. 12, 2018	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 17, 2018	Jan. 16, 2019	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz~30MHz	Nov. 10, 2017	Nov. 09, 2018	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2018	Mar. 15, 2019	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2018	May 01, 2019	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100354	9kHz ~ 2.75GHz	Dec. 08, 2017	Dec. 07, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)

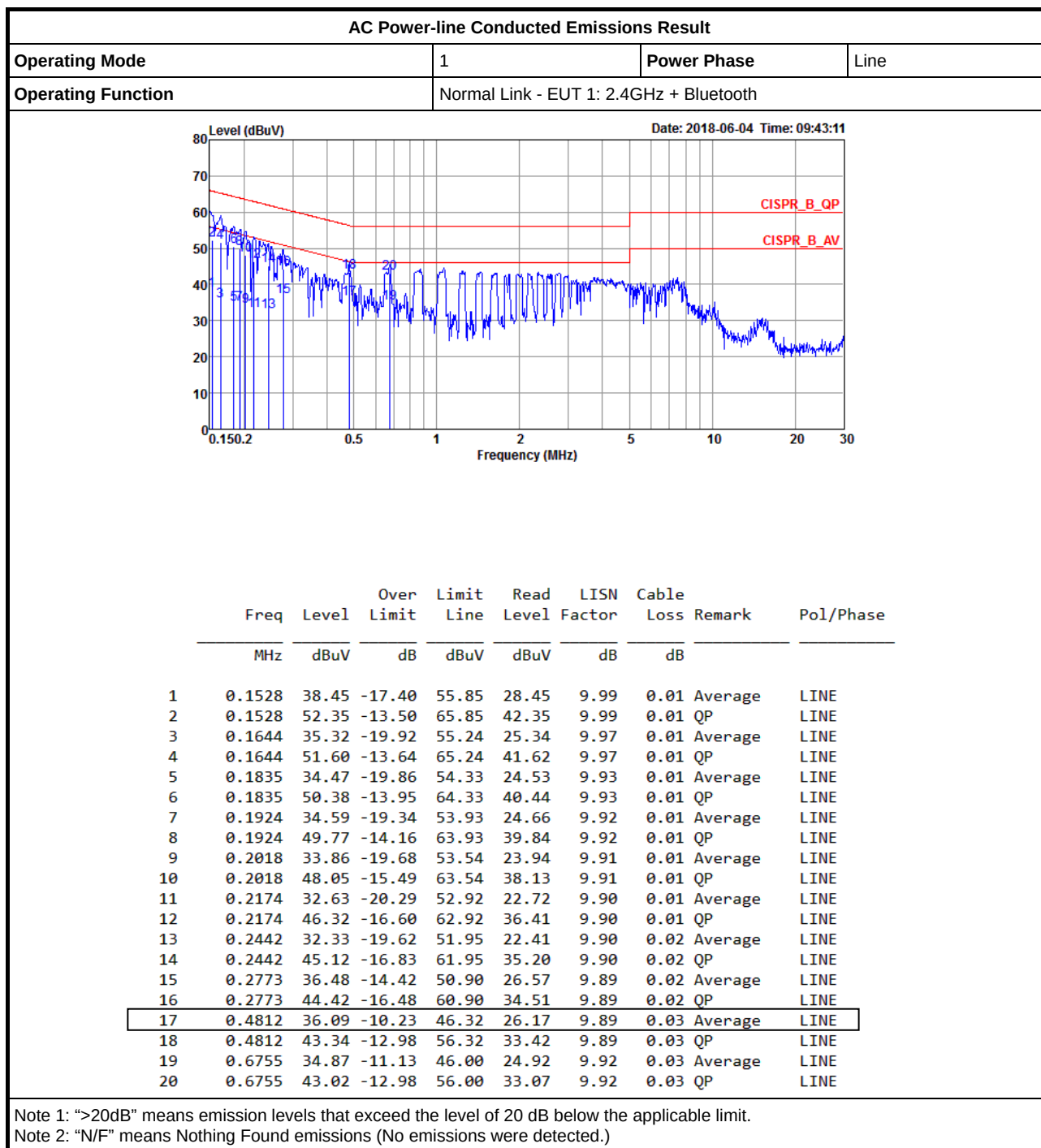


Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.





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)	662.5k	787.106k	787KF1D	661.25k	783.358k
BT-EDR(2Mbps)	1.284M	1.234M	1M23G1D	1.279M	1.233M
BT-EDR(3Mbps)	1.263M	1.099M	1M10G1D	1.261M	1.093M

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;

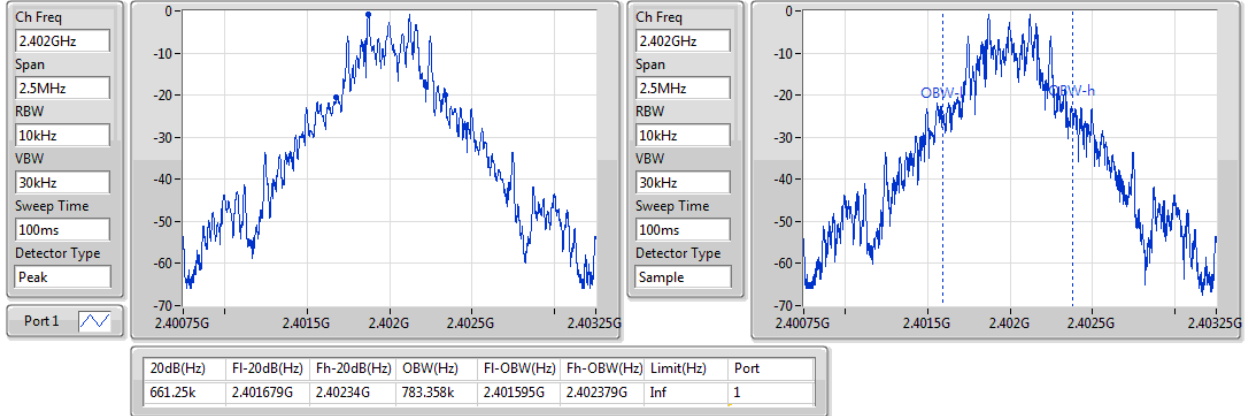
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	661.25k	783.358k
2440MHz	Pass	Inf	662.5k	787.106k
2480MHz	Pass	Inf	661.25k	783.358k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.279M	1.233M
2440MHz	Pass	Inf	1.284M	1.234M
2480MHz	Pass	Inf	1.279M	1.233M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.263M	1.093M
2440MHz	Pass	Inf	1.261M	1.099M
2480MHz	Pass	Inf	1.263M	1.094M

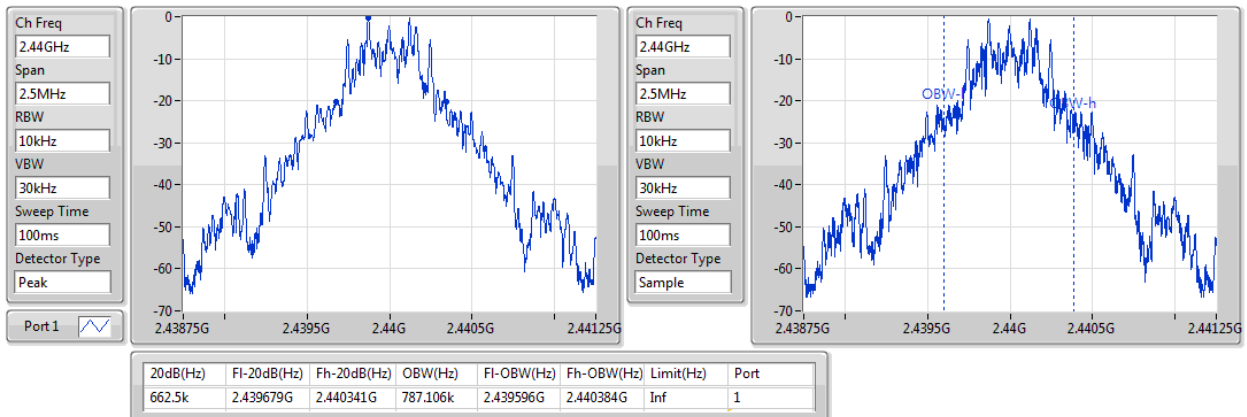
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

BT-BR(1Mbps)
EBW
2402MHz

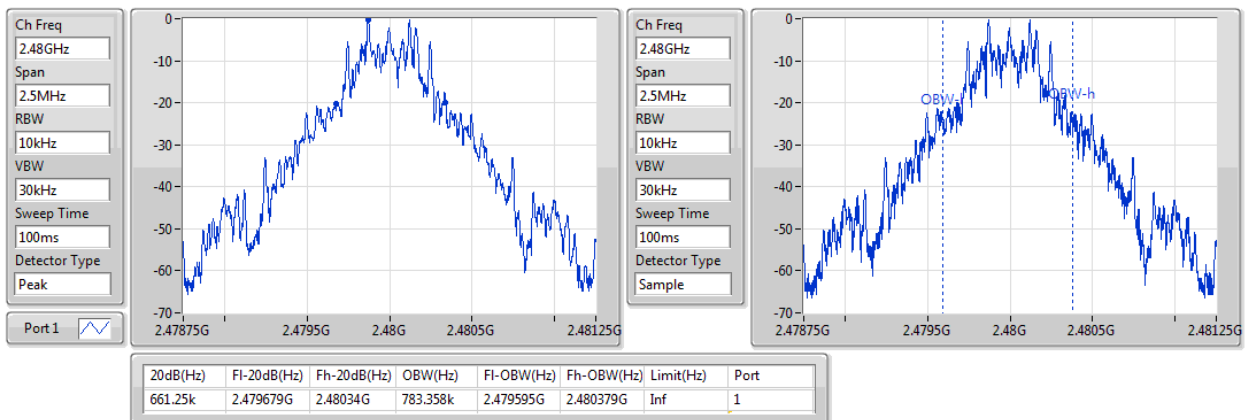
10/05/2018


BT-BR(1Mbps)
EBW
2440MHz

10/05/2018

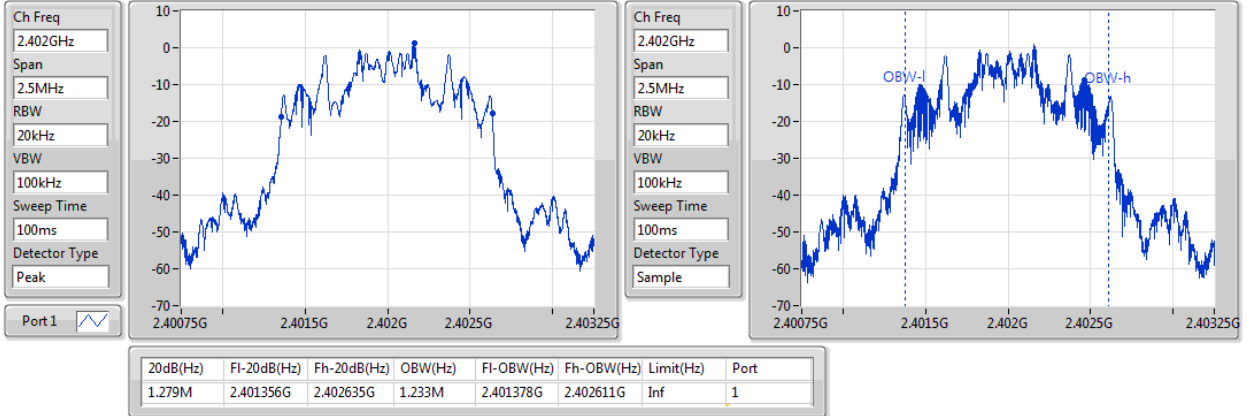

BT-BR(1Mbps)
EBW
2480MHz

10/05/2018

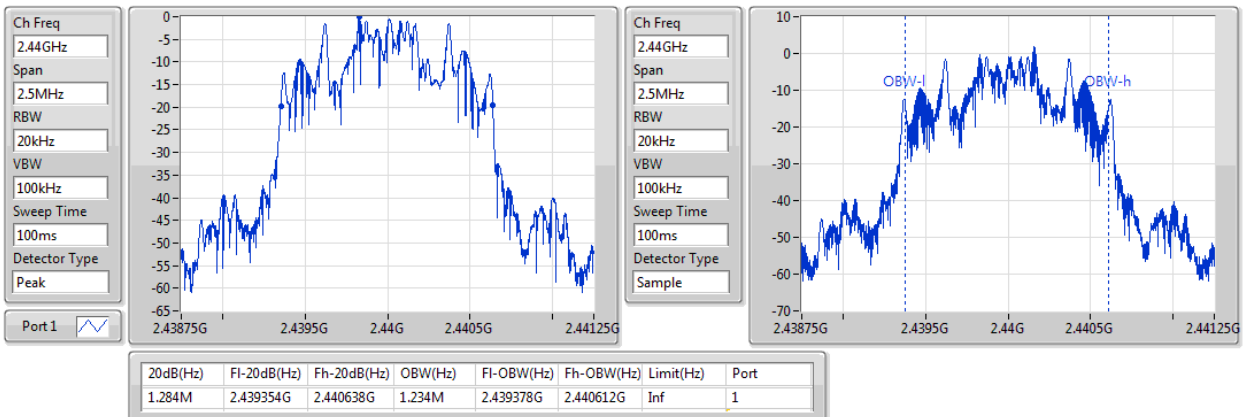


BT-EDR(2Mbps)
EBW
2402MHz

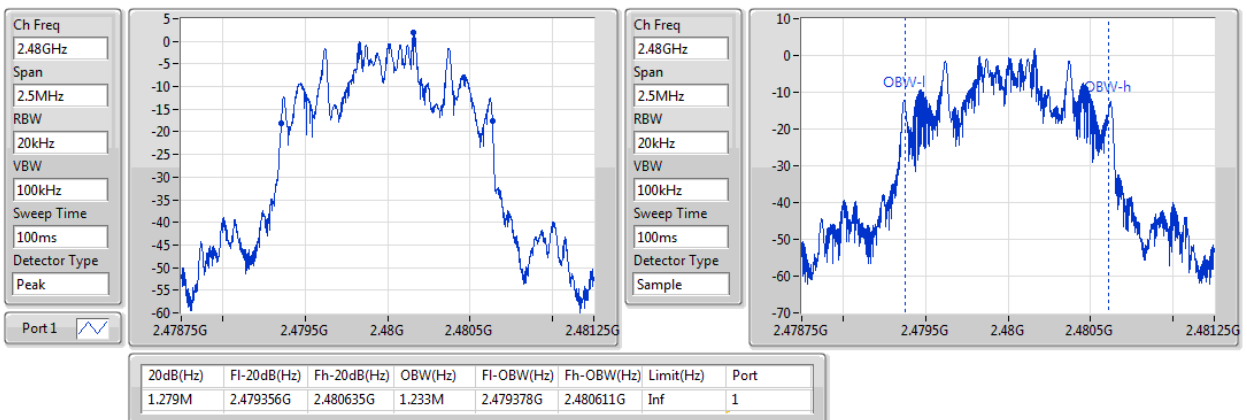
10/05/2018


BT-EDR(2Mbps)
EBW
2440MHz

10/05/2018

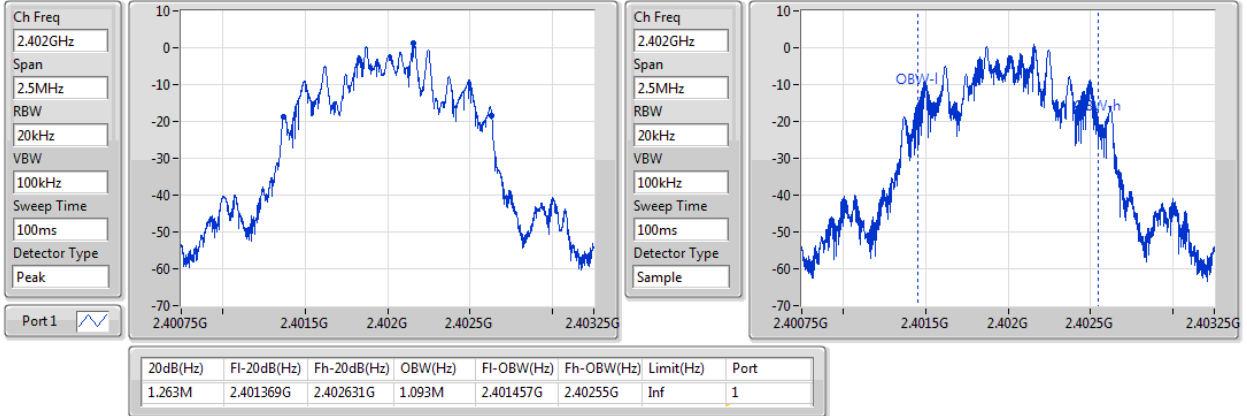

BT-EDR(2Mbps)
EBW
2480MHz

10/05/2018

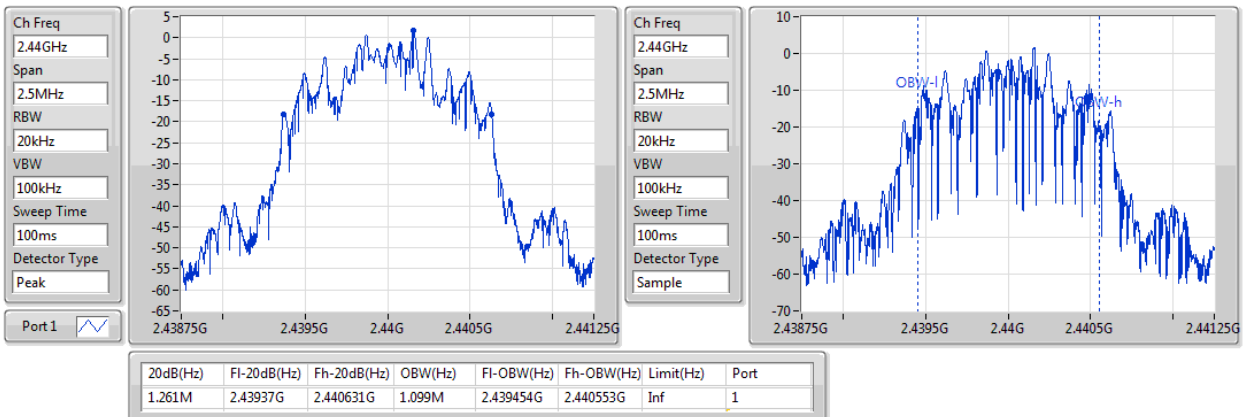


BT-EDR(3Mbps)
EBW
2402MHz

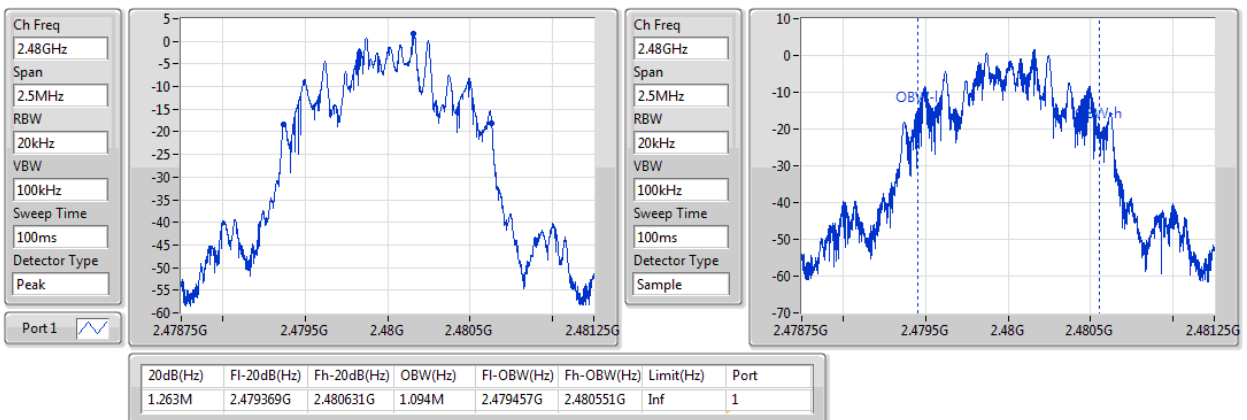
10/05/2018


BT-EDR(3Mbps)
EBW
2440MHz

10/05/2018


BT-EDR(3Mbps)
EBW
2480MHz

10/05/2018



Summary

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

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402158G	2.403159G	1.0005M	440.3925k
2440MHz	Pass	2.44016G	2.44116G	1.0005M	441.225k
2480MHz	Pass	2.479158G	2.480159G	1.0005M	440.3925k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.40216G	2.40316G	1.0005M	851.814k
2440MHz	Pass	2.44016G	2.44116G	1.0005M	855.144k
2480MHz	Pass	2.47916G	2.48016G	1.0005M	851.814k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402158G	2.403159G	1.0005M	841.158k
2440MHz	Pass	2.440157G	2.441159G	1.002M	839.826k
2480MHz	Pass	2.479158G	2.480159G	1.0005M	841.158k

BT-BR(1Mbps)

Channel Separation

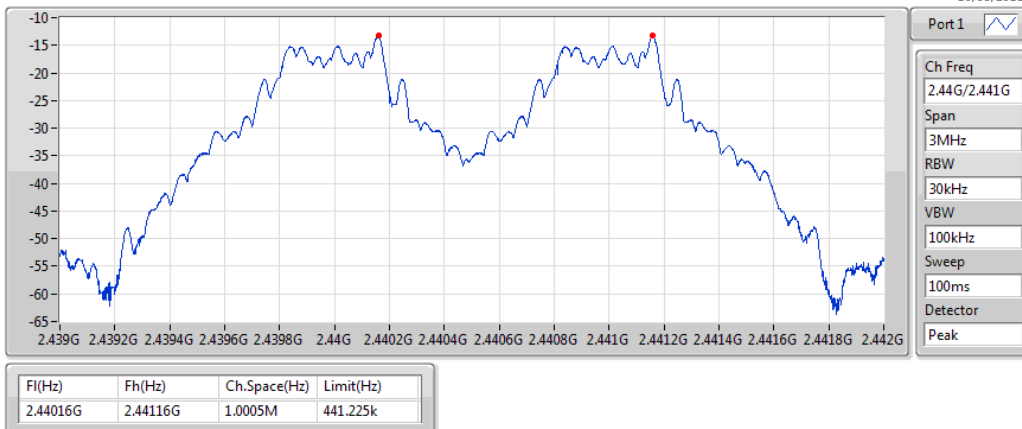
2.402G/2.403GHz



BT-BR(1Mbps)

Channel Separation

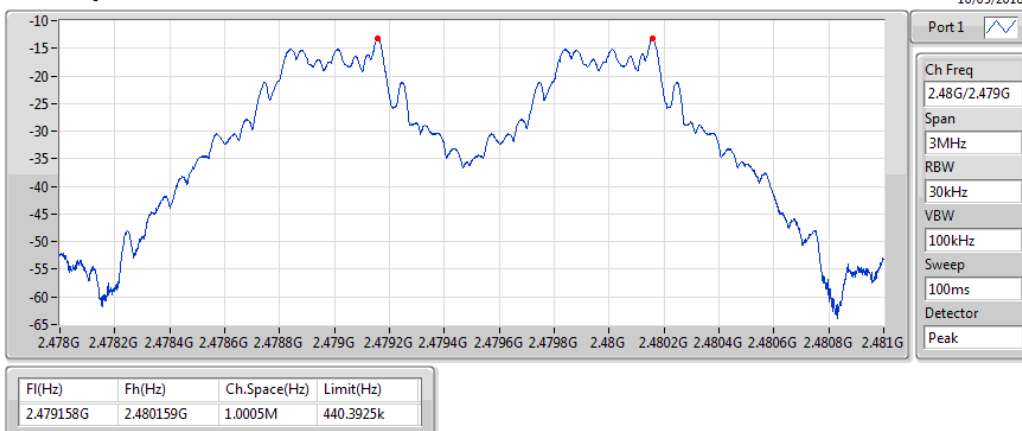
2.44G/2.441GHz



BT-BR(1Mbps)

Channel Separation

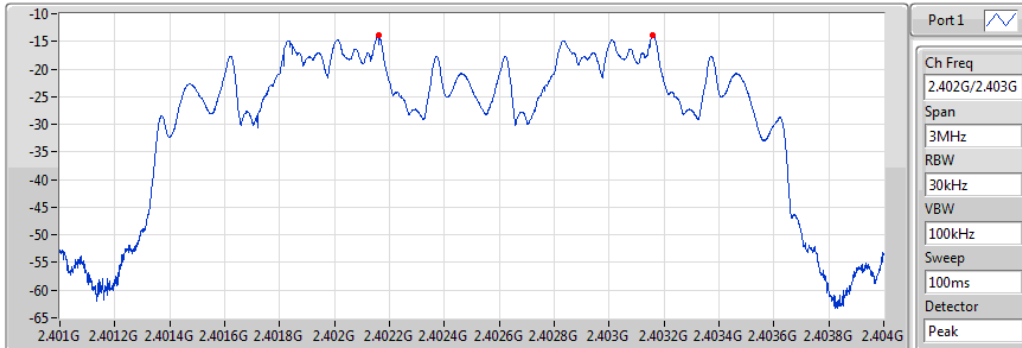
2.48G/2.479GHz



BT-EDR(2Mbps)

Channel Separation

2.402G/2.403GHz

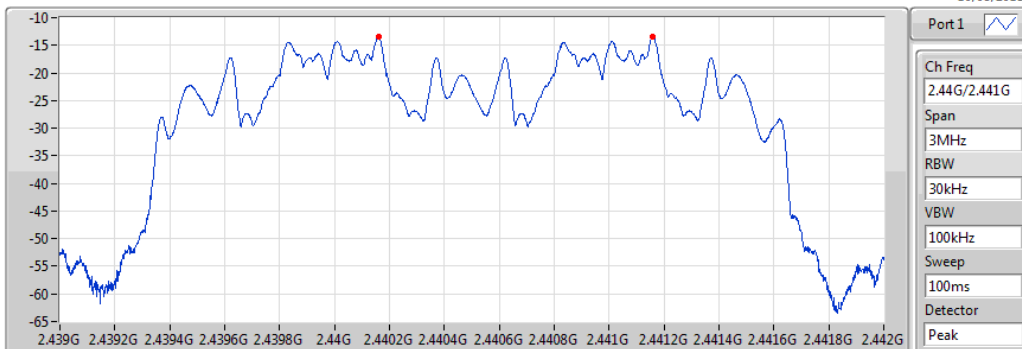


Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.40216G	2.40316G	1.0005M	851.814k

BT-EDR(2Mbps)

Channel Separation

2.44G/2.441GHz

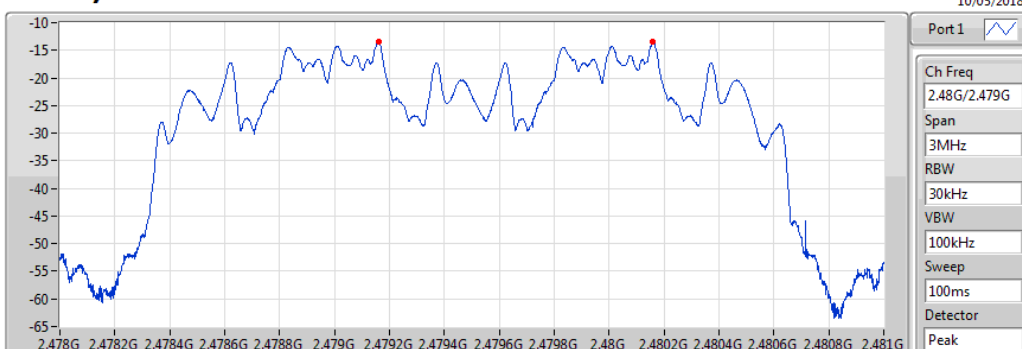


Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.44016G	2.44116G	1.0005M	855.144k

BT-EDR(2Mbps)

Channel Separation

2.48G/2.479GHz

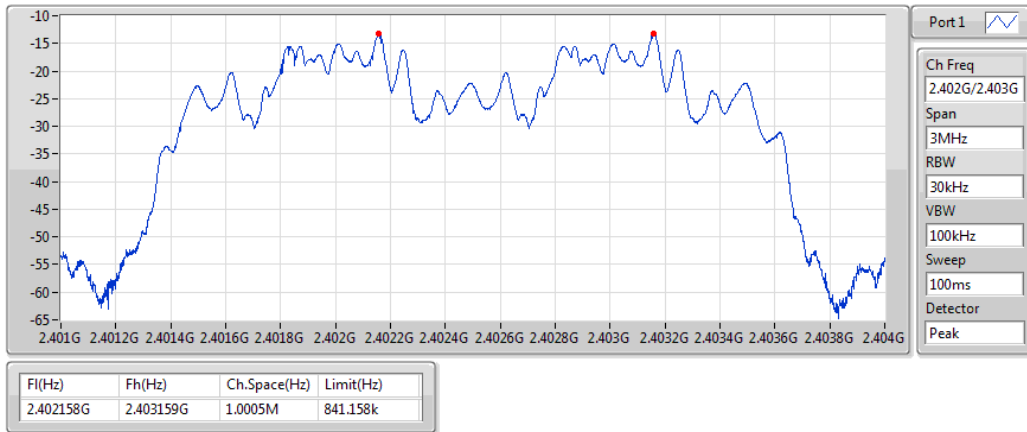


Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.47916G	2.48016G	1.0005M	851.814k

BT-EDR(3Mbps)

Channel Separation

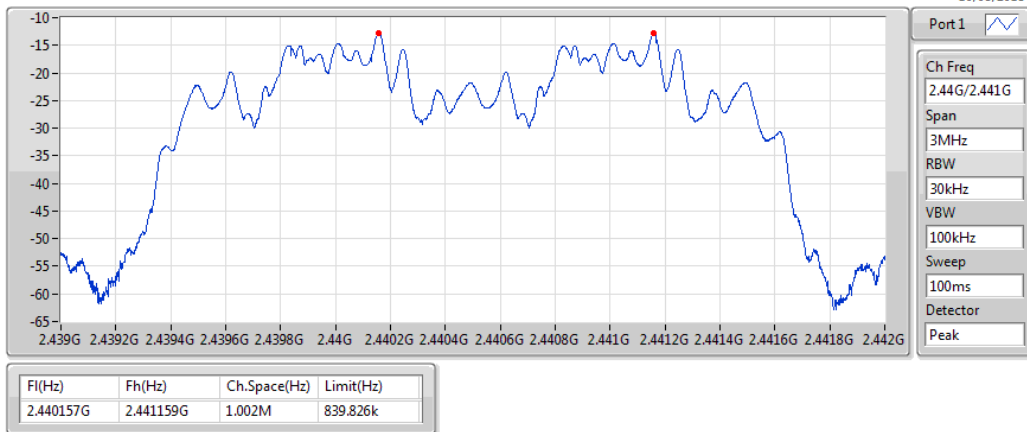
2.402G/2.403GHz



BT-EDR(3Mbps)

Channel Separation

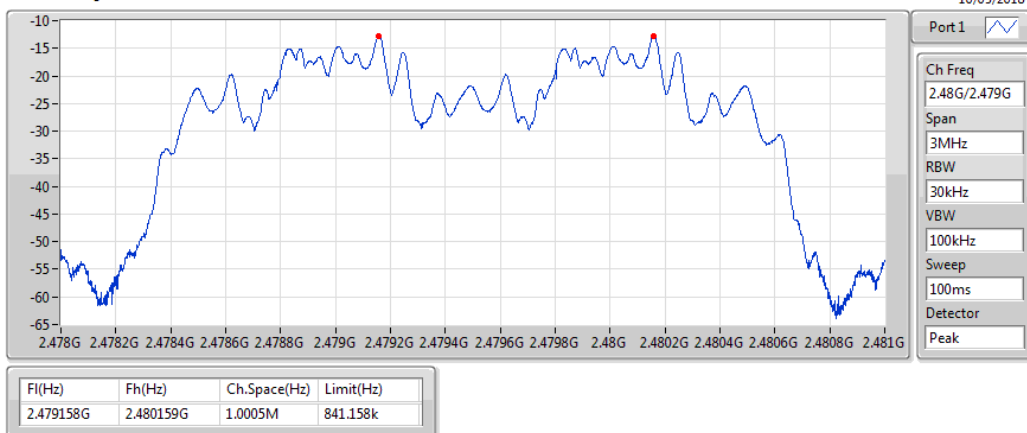
2.44G/2.441GHz



BT-EDR(3Mbps)

Channel Separation

2.48G/2.479GHz



Summary

Mode	Power	Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	5.01	0.00317
BT-EDR(2Mbps)	5.21	0.00332
BT-EDR(3Mbps)	5.20	0.00331

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.04	4.53	21.00
2440MHz	Pass	2.04	5.01	21.00
2480MHz	Pass	2.04	4.98	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.04	4.72	21.00
2440MHz	Pass	2.04	5.21	21.00
2480MHz	Pass	2.04	5.19	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.04	4.74	21.00
2440MHz	Pass	2.04	5.20	21.00
2480MHz	Pass	2.04	5.19	21.00

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	5.55	0.00359
BT-EDR(2Mbps)	7.51	0.00564
BT-EDR(3Mbps)	8.21	0.00662

Result

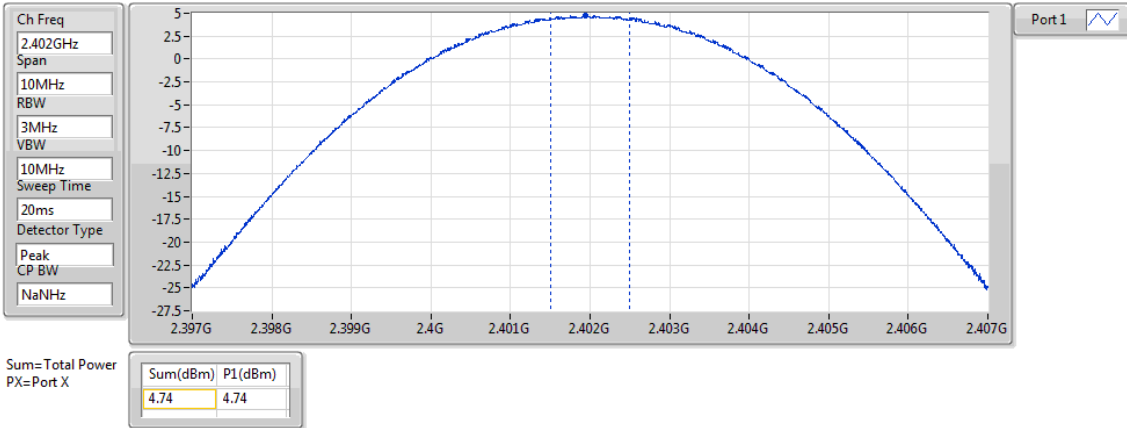
Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.04	4.74	21.00
2440MHz	Pass	2.04	5.52	21.00
2480MHz	Pass	2.04	5.55	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.04	6.91	21.00
2440MHz	Pass	2.04	7.51	21.00
2480MHz	Pass	2.04	7.49	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.04	7.64	21.00
2440MHz	Pass	2.04	8.19	21.00
2480MHz	Pass	2.04	8.21	21.00

BT-BR(1Mbps)

PK Power

2402MHz

10/05/2018

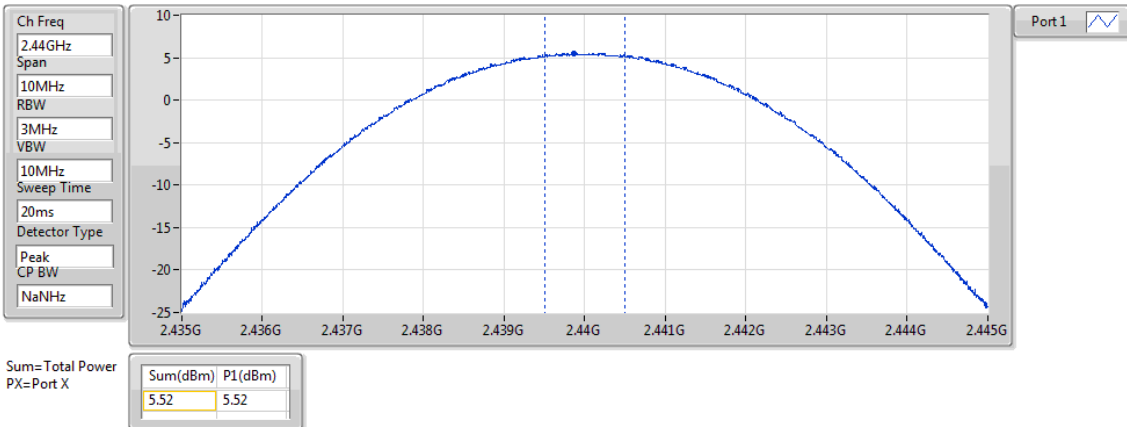


BT-BR(1Mbps)

PK Power

2440MHz

10/05/2018

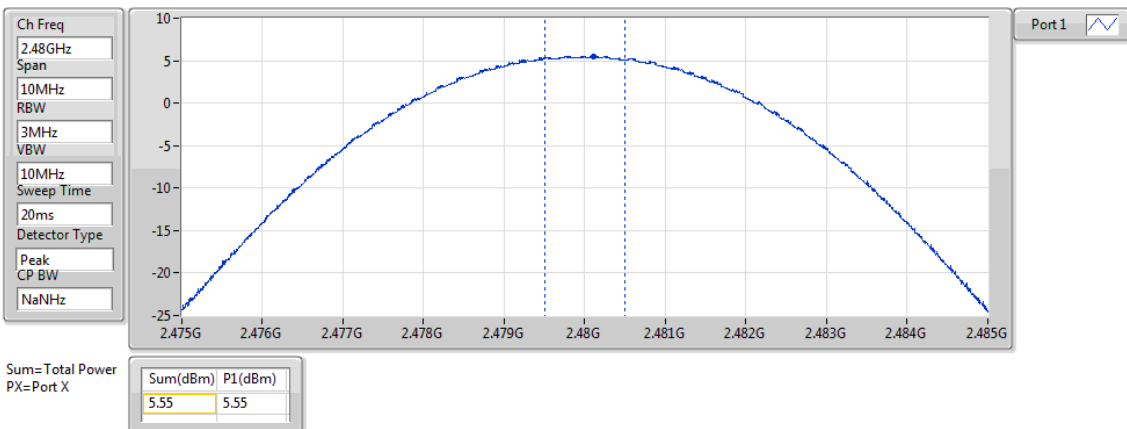


BT-BR(1Mbps)

PK Power

2480MHz

10/05/2018

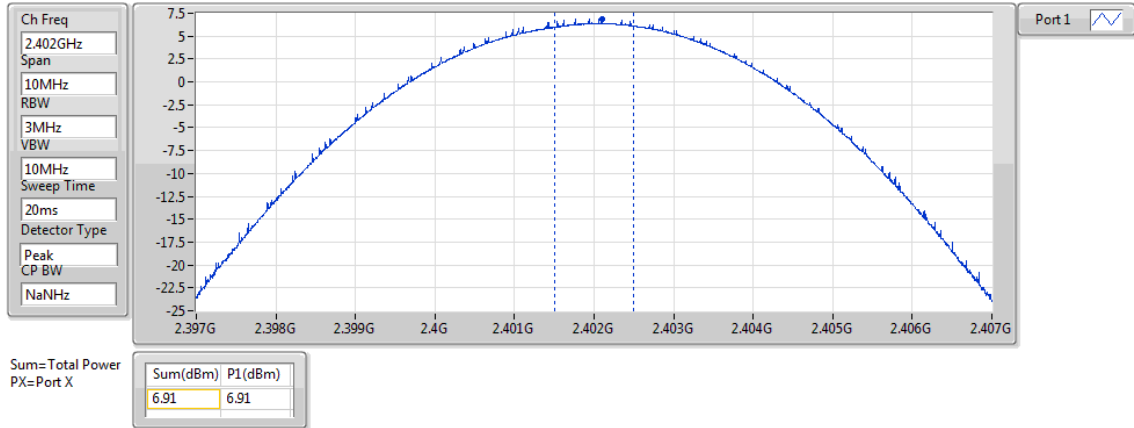


BT-EDR(2Mbps)

PK Power

2402MHz

10/05/2018

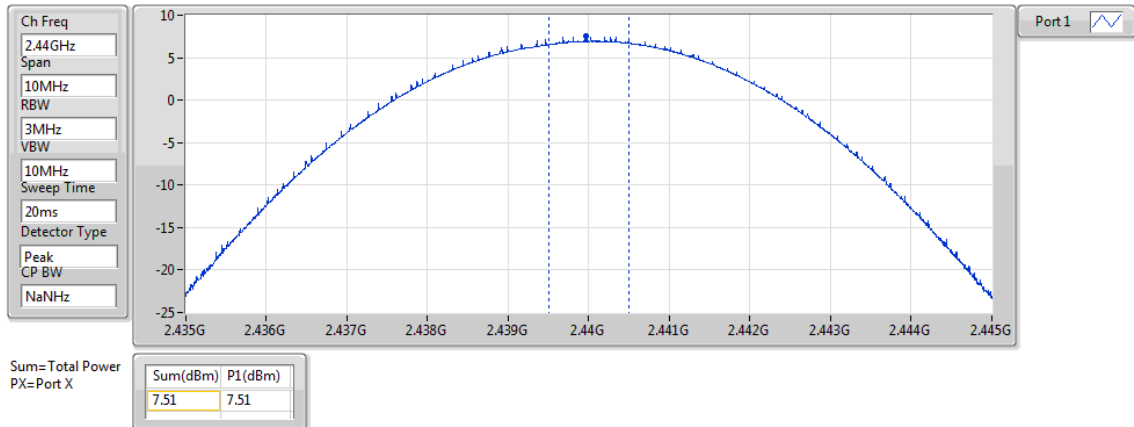


BT-EDR(2Mbps)

PK Power

2440MHz

10/05/2018

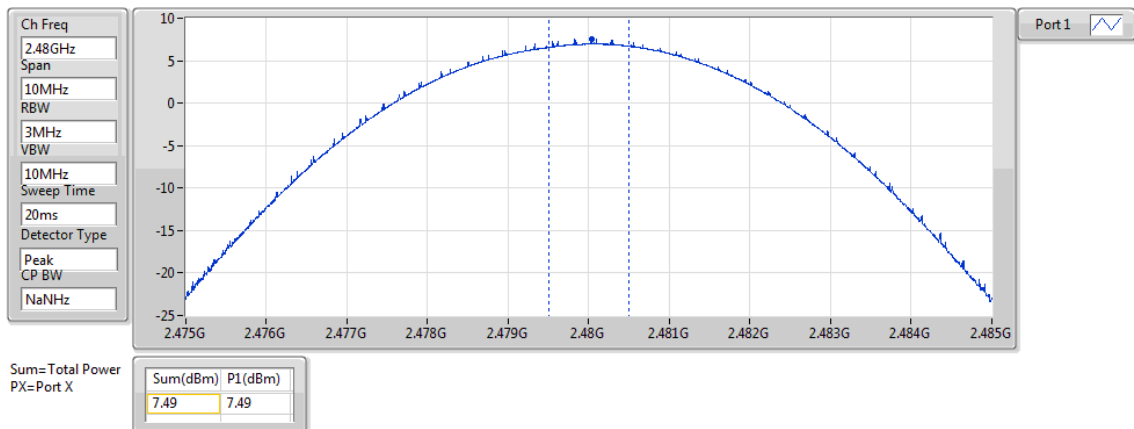


BT-EDR(2Mbps)

PK Power

2480MHz

10/05/2018

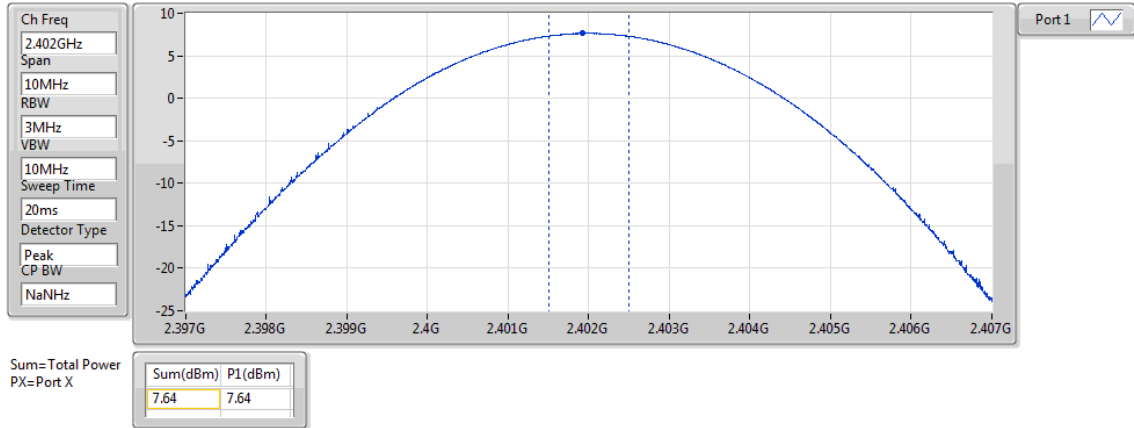


BT-EDR(3Mbps)

PK Power

2402MHz

10/05/2018

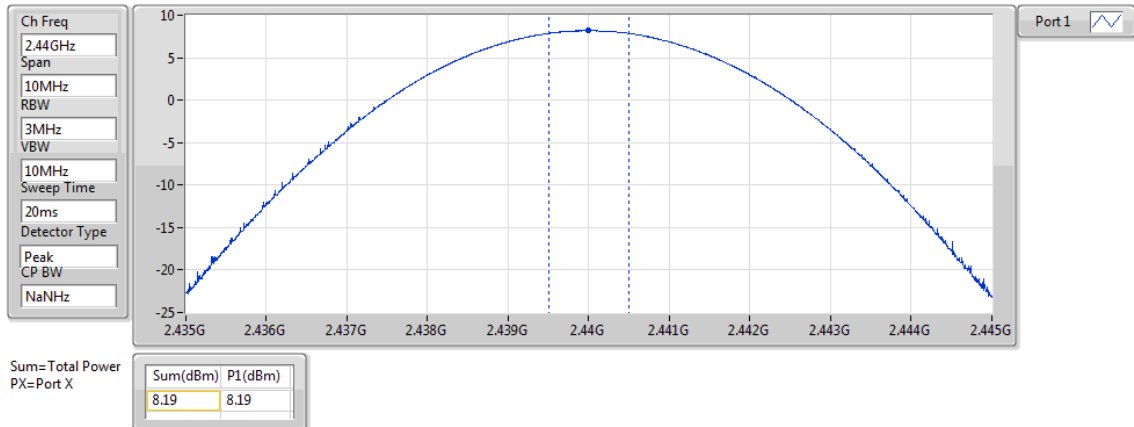


BT-EDR(3Mbps)

PK Power

2440MHz

10/05/2018

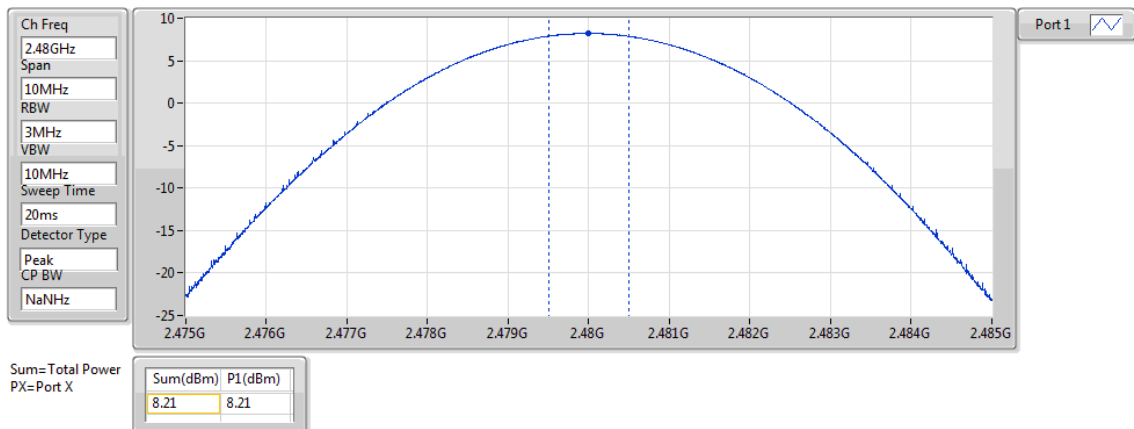


BT-EDR(3Mbps)

PK Power

2480MHz

10/05/2018



Summary

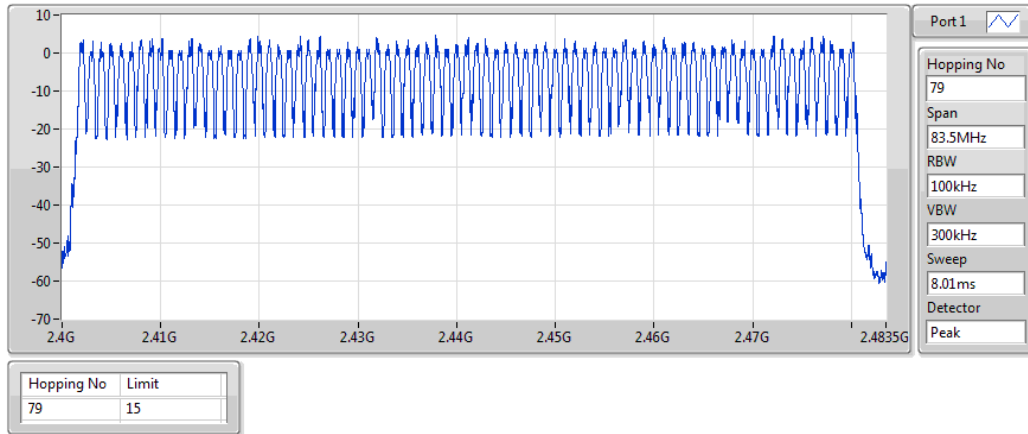
Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

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

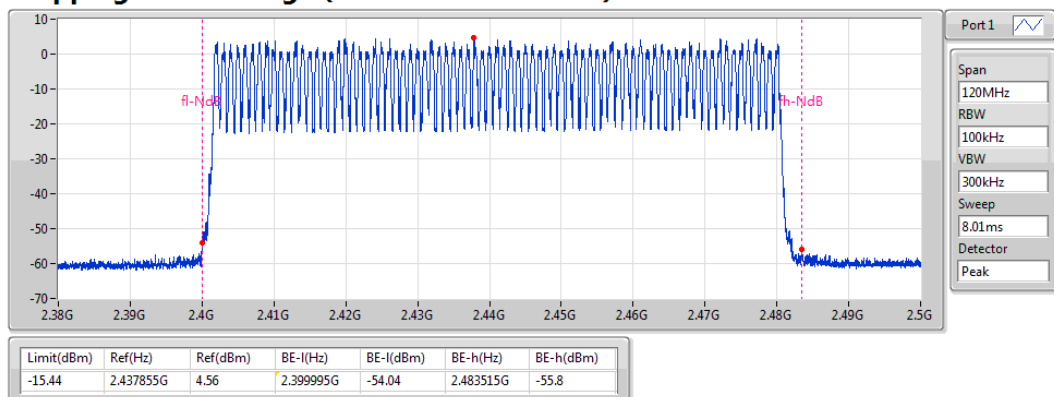
BT-BR(1Mbps) 2440MHz

Hopping Ch



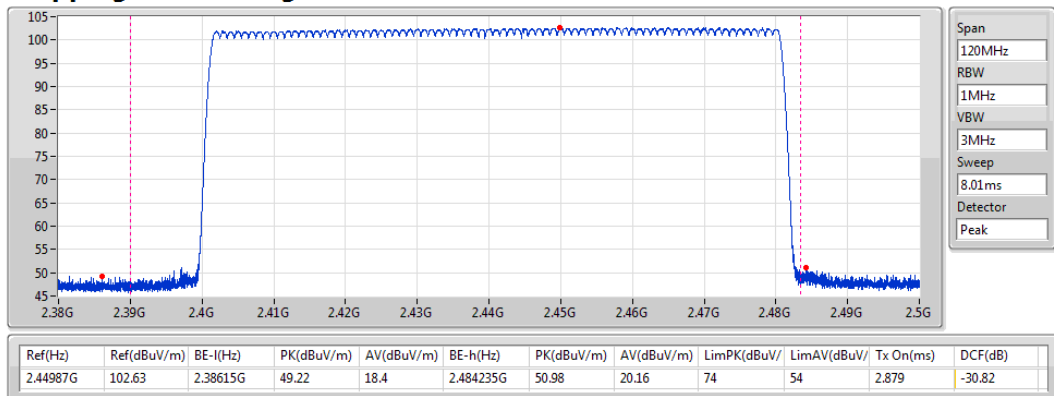
BT-BR(1Mbps) 2440MHz

Hopping Ch Bandedge (Non-restricted Band)



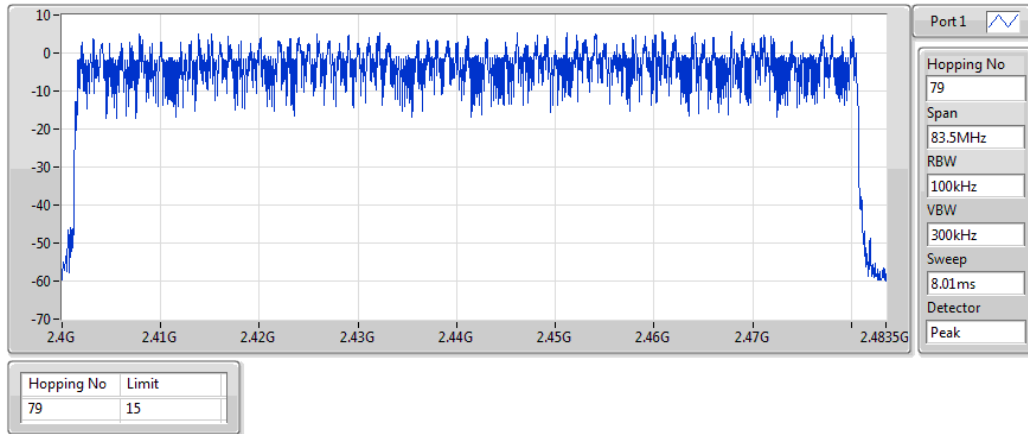
BT-BR(1Mbps) 2440MHz

Hopping Ch Bandedge (Restricted Band)



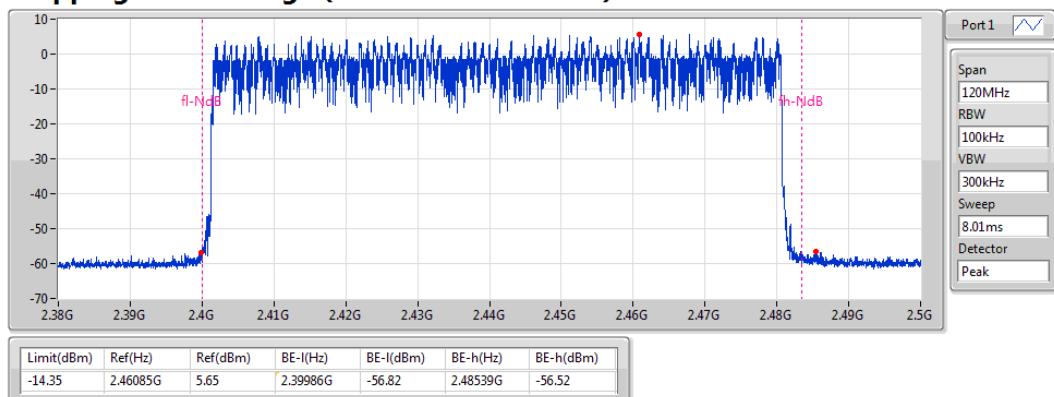
BT-EDR(2Mbps) 2440MHz

Hopping Ch



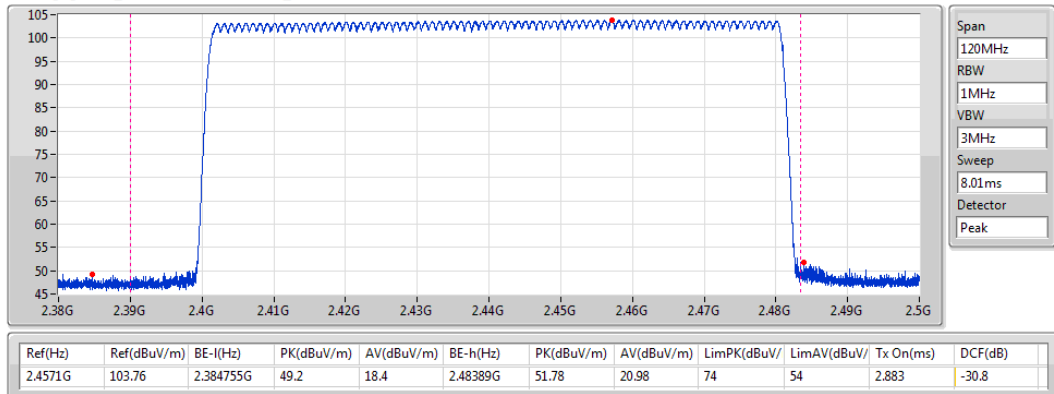
BT-EDR(2Mbps) 2440MHz

Hopping Ch Bandedge (Non-restricted Band)



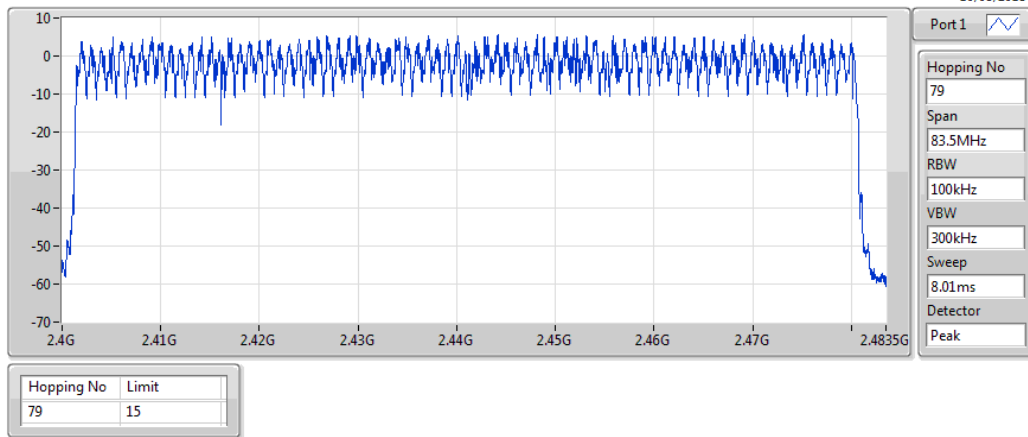
BT-EDR(2Mbps) 2440MHz

Hopping Ch Bandedge (Restricted Band)



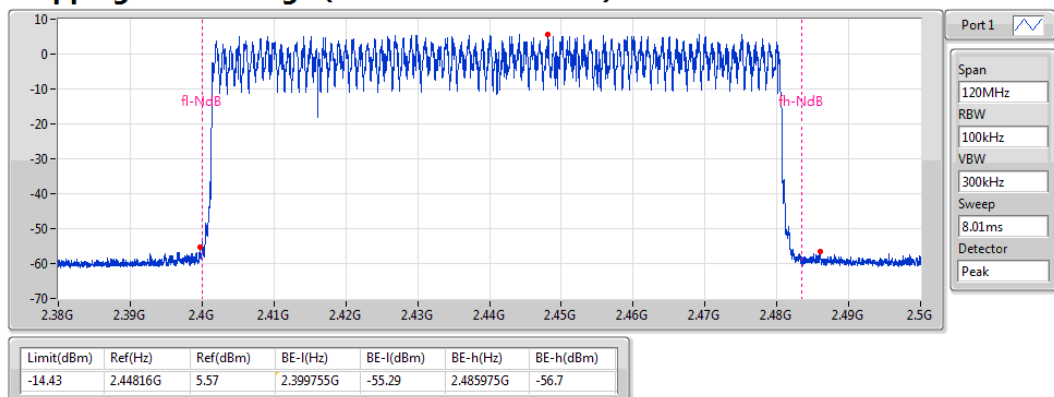
BT-EDR(3Mbps) 2440MHz

Hopping Ch



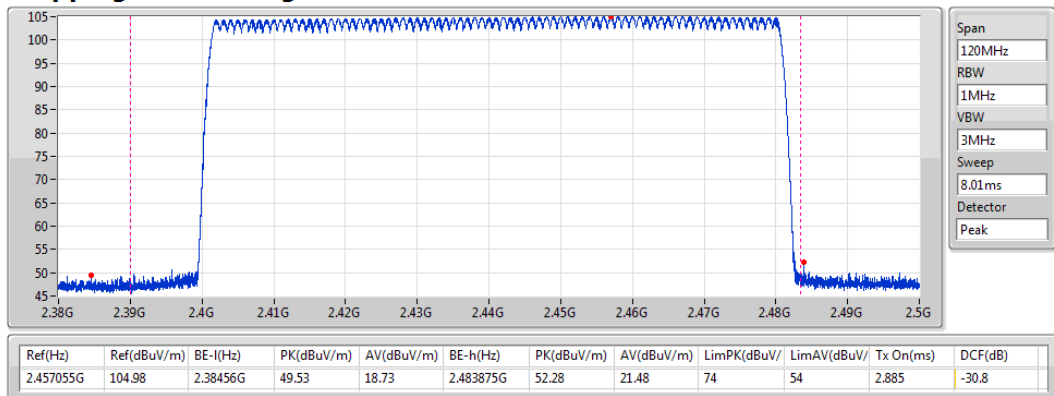
BT-EDR(3Mbps) 2440MHz

Hopping Ch Bandedge (Non-restricted Band)



BT-EDR(3Mbps) 2440MHz

Hopping Ch Bandedge (Restricted Band)



**Summary**

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	306.9014m
BT-EDR(2Mbps)	307.3278m
BT-EDR(3Mbps)	307.541m

Result

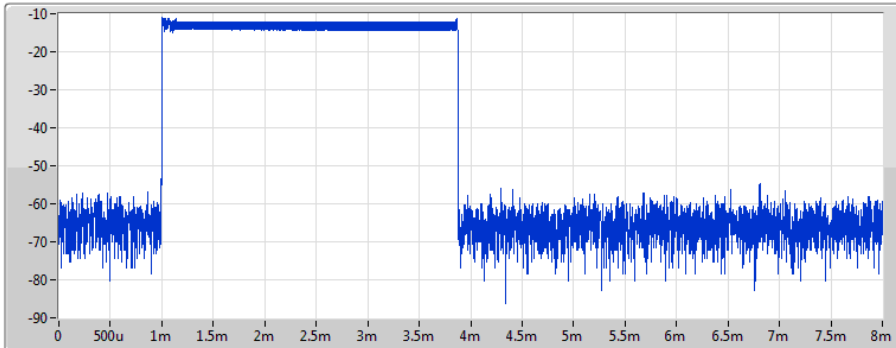
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	306.9014m	400m	2.879m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.3278m	400m	2.883m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	307.541m	400m	2.885m

BT-BR(1Mbps)

2440MHz

Dwell

10/05/2018



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.879ms

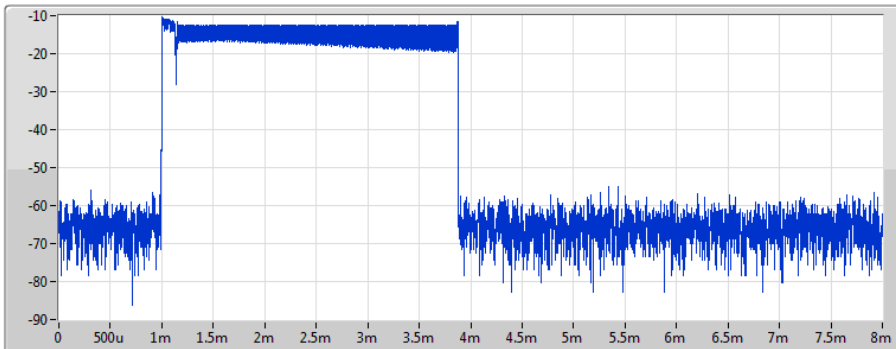
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	306.9014m	400m	2.879m

BT-EDR(2Mbps)

2440MHz

Dwell

10/05/2018



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.883ms

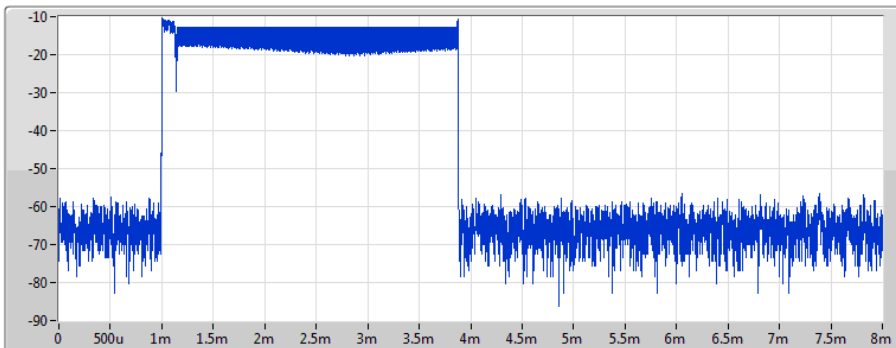
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.3278m	400m	2.883m

BT-EDR(3Mbps)

2440MHz

Dwell

10/05/2018



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.885ms

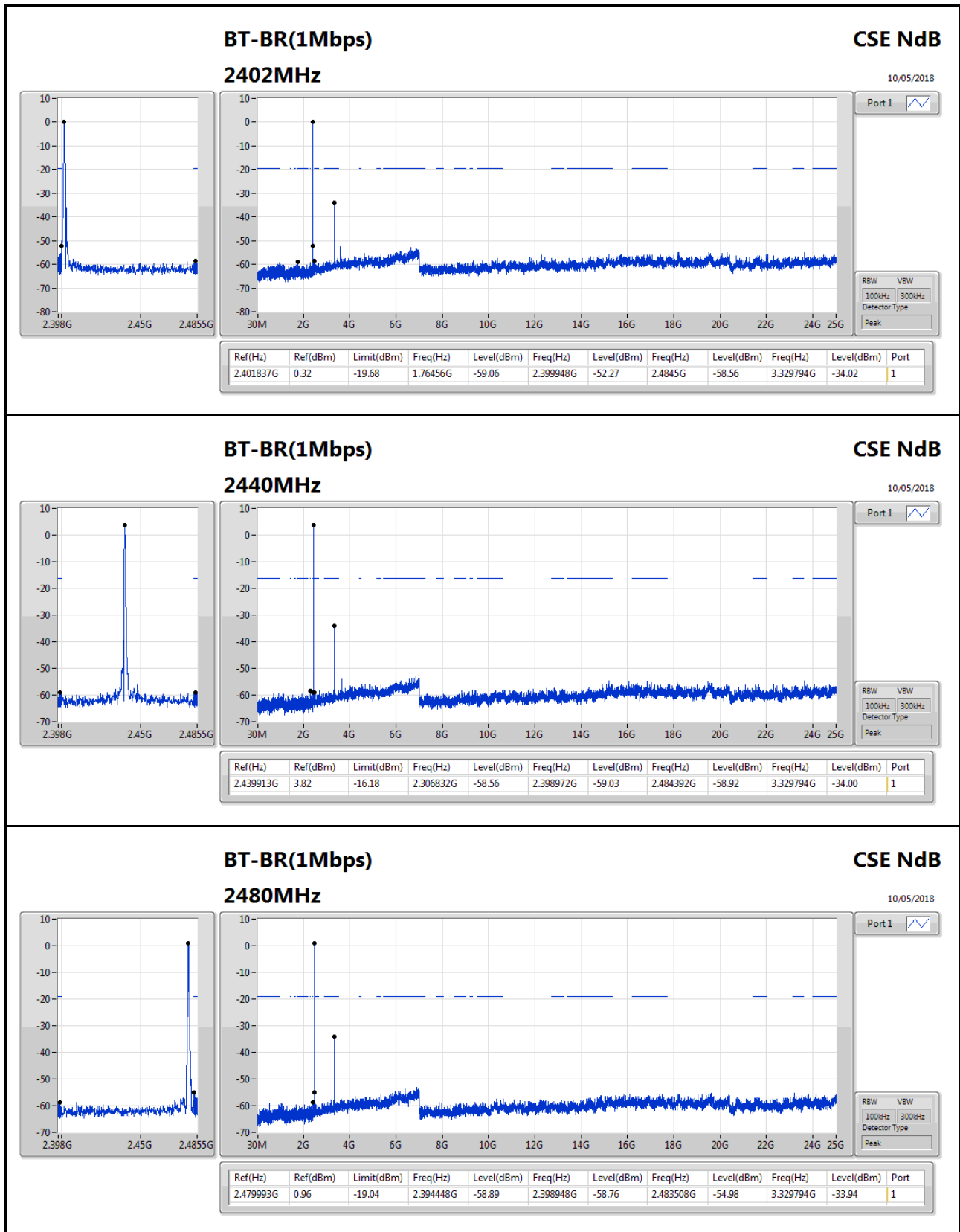
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.541m	400m	2.885m

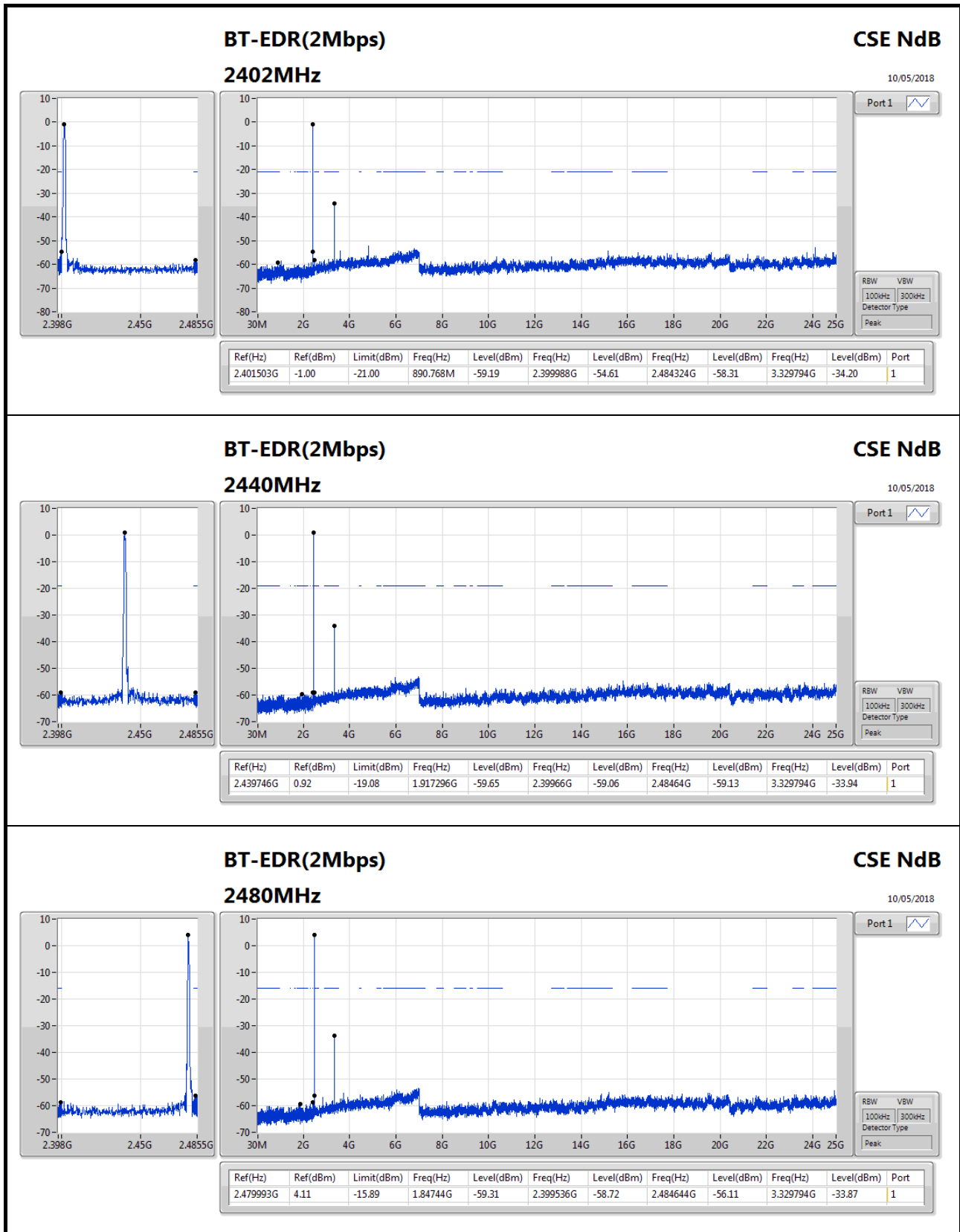
Summary

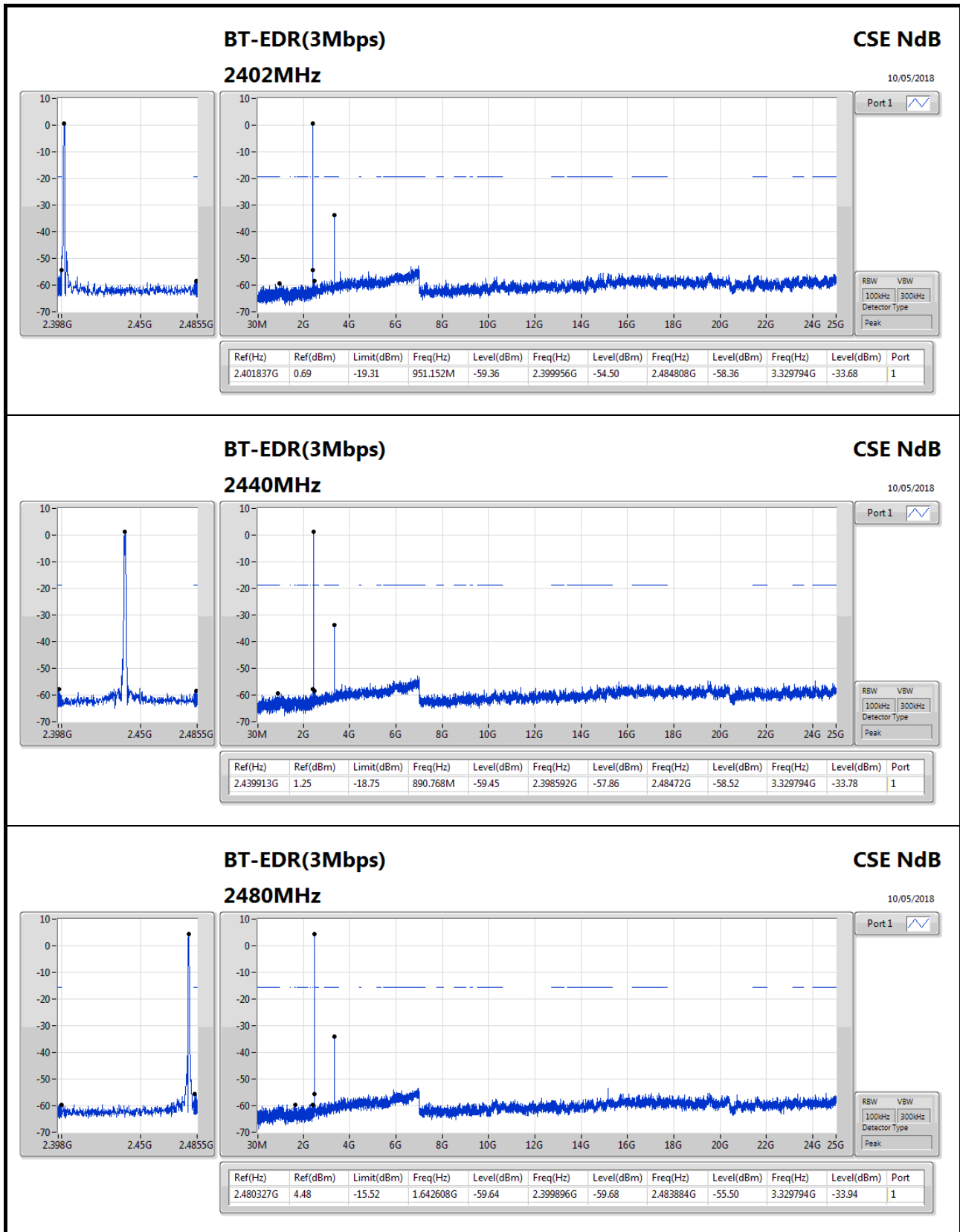
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.401837G	0.32	-19.68	1.76456G	-59.06	2.399948G	-52.27	2.4845G	-58.56	3.329794G	-34.02	1
BT-EDR(2Mbps)	Pass	2.401503G	-1.00	-21.00	890.768M	-59.19	2.399988G	-54.61	2.484324G	-58.31	3.329794G	-34.20	1
BT-EDR(3Mbps)	Pass	2.401837G	0.69	-19.31	951.152M	-59.36	2.399956G	-54.50	2.484808G	-58.36	3.329794G	-33.68	1

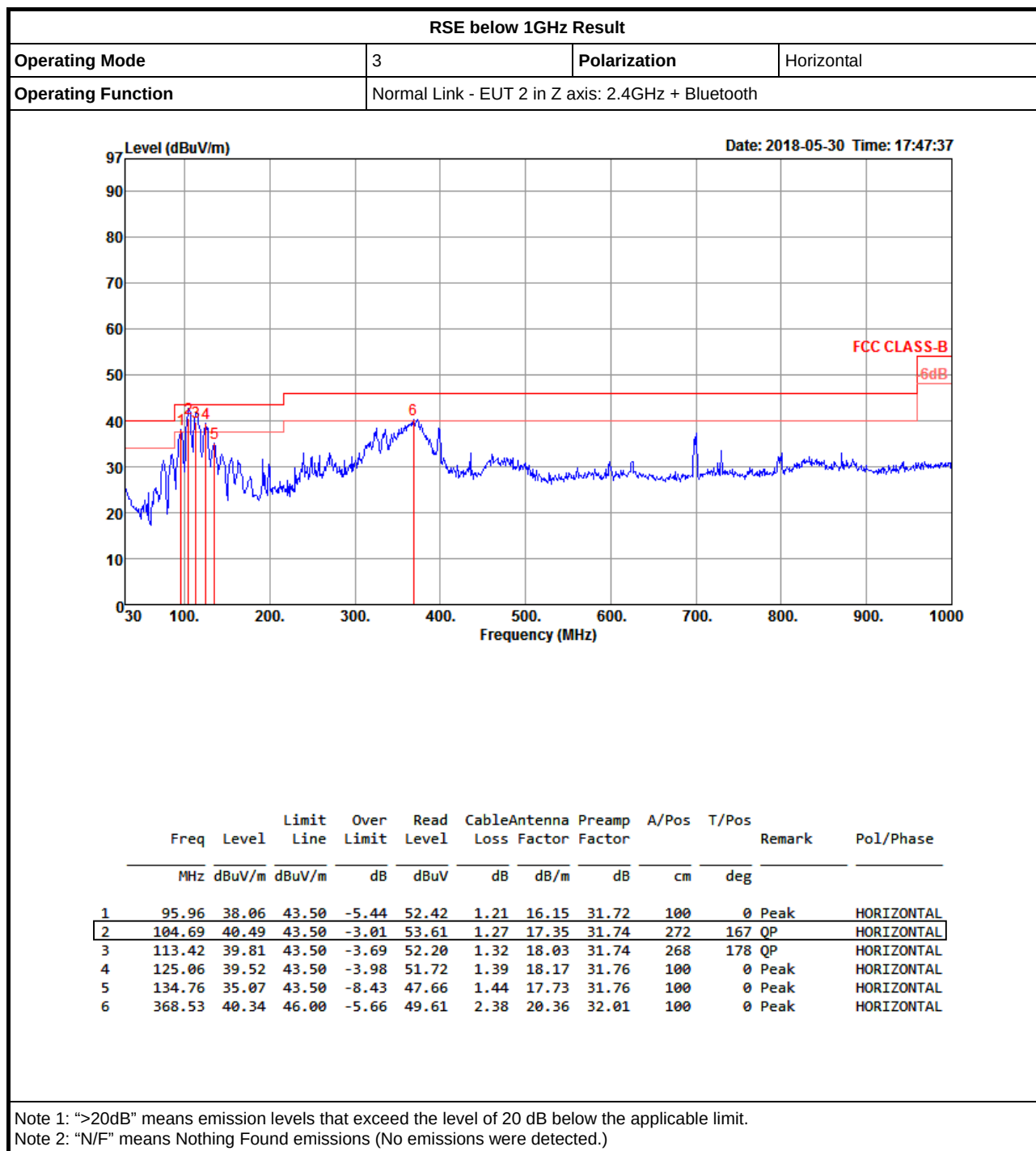
Result

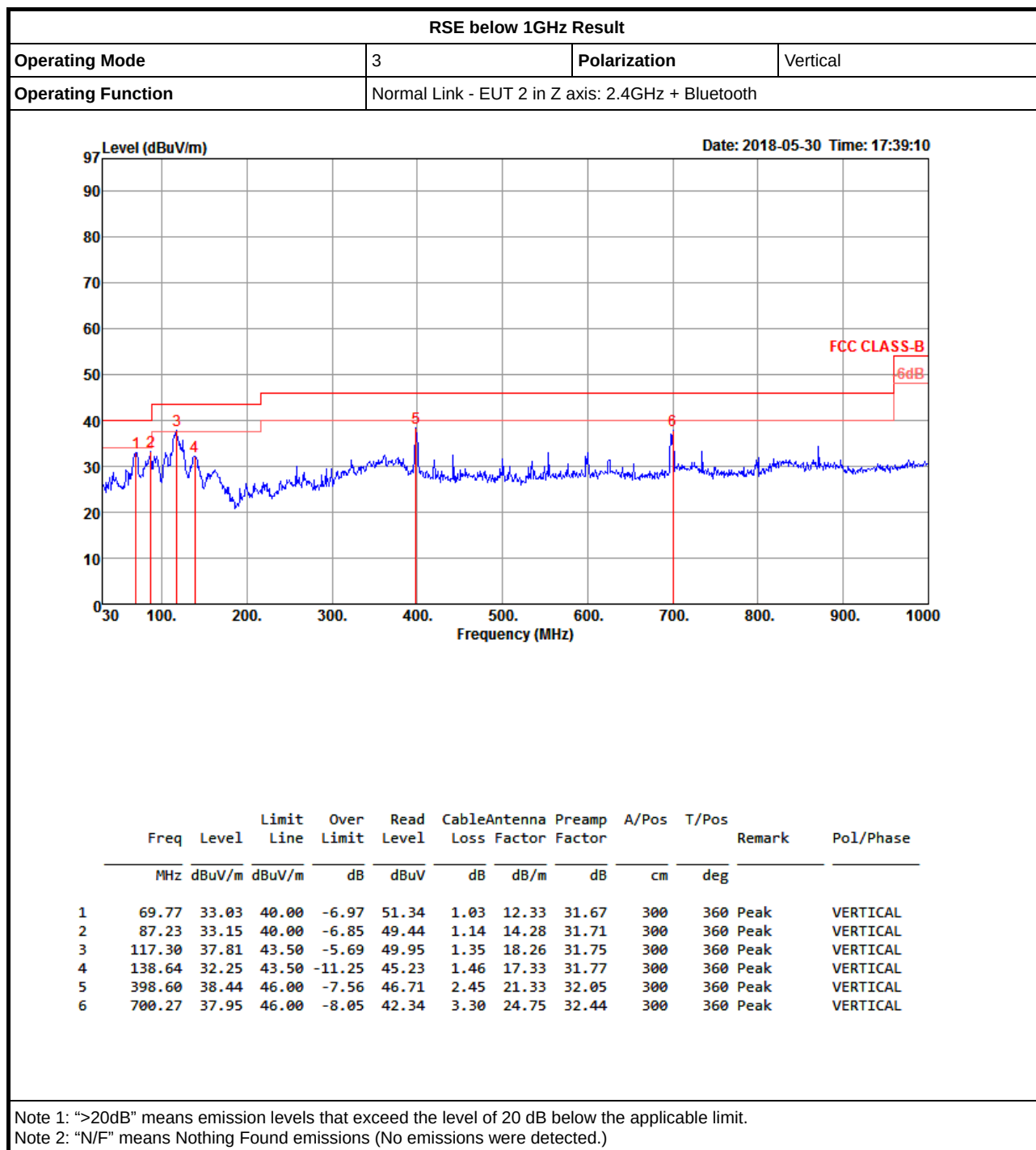
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.401837G	0.32	-19.68	1.76456G	-59.06	2.399948G	-52.27	2.4845G	-58.56	3.329794G	-34.02	1
2440MHz	Pass	2.439913G	3.82	-16.18	2.306832G	-58.56	2.398972G	-59.03	2.484392G	-58.92	3.329794G	-34.00	1
2480MHz	Pass	2.479993G	0.96	-19.04	2.394448G	-58.89	2.398948G	-58.76	2.483508G	-54.98	3.329794G	-33.94	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.401503G	-1.00	-21.00	890.768M	-59.19	2.399988G	-54.61	2.484324G	-58.31	3.329794G	-34.20	1
2440MHz	Pass	2.439746G	0.92	-19.08	1.917296G	-59.65	2.39966G	-59.06	2.48464G	-59.13	3.329794G	-33.94	1
2480MHz	Pass	2.479993G	4.11	-15.89	1.84744G	-59.31	2.399536G	-58.72	2.484644G	-56.11	3.329794G	-33.87	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.401837G	0.69	-19.31	951.152M	-59.36	2.399956G	-54.50	2.484808G	-58.36	3.329794G	-33.68	1
2440MHz	Pass	2.439913G	1.25	-18.75	890.768M	-59.45	2.398592G	-57.86	2.48472G	-58.52	3.329794G	-33.78	1
2480MHz	Pass	2.480327G	4.48	-15.52	1.642608G	-59.64	2.39896G	-59.68	2.483884G	-55.50	3.329794G	-33.94	1













RSE TX above 1GHz Result

Appendix G.2

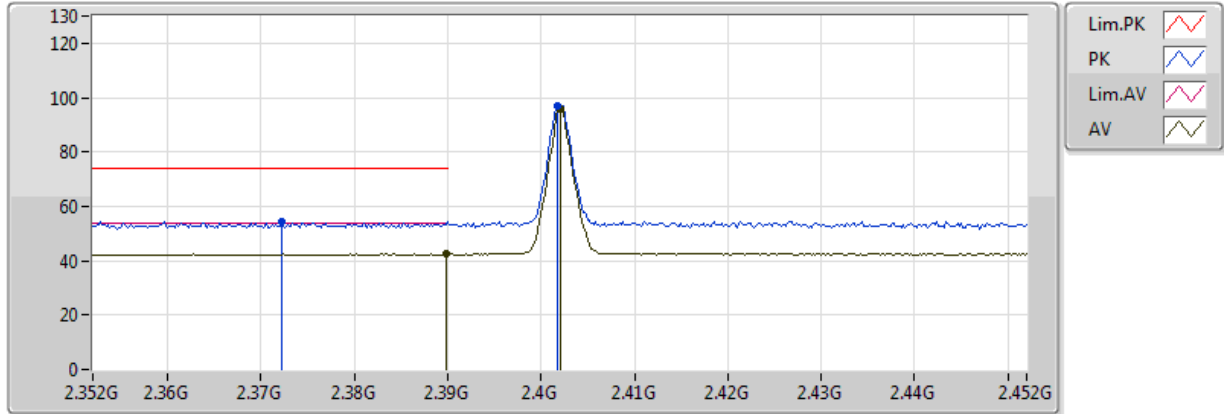
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-EDR(3Mbps)	Pass	AV	2.483502G	48.63	54.00	-5.37	31.17	3	Horizontal	10	1.17	-

BT-BR(1Mbps)

2402MHz_TX

05/05/2018



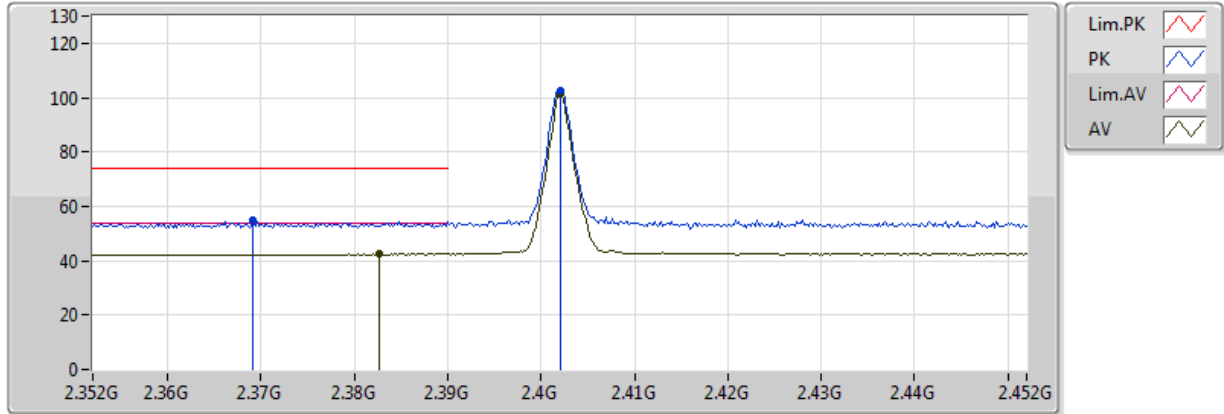
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3722G	54.37	74.00	-19.63	31.01	3	Vertical	171	1.57	-
AV	2.3898G	42.42	54.00	-11.58	30.97	3	Vertical	171	1.57	-
PK	2.4018G	97.16	Inf	-Inf	30.94	3	Vertical	171	1.57	-
AV	2.402G	96.01	Inf	-Inf	30.94	3	Vertical	171	1.57	-

BT-BR(1Mbps)

2402MHz_TX

05/05/2018



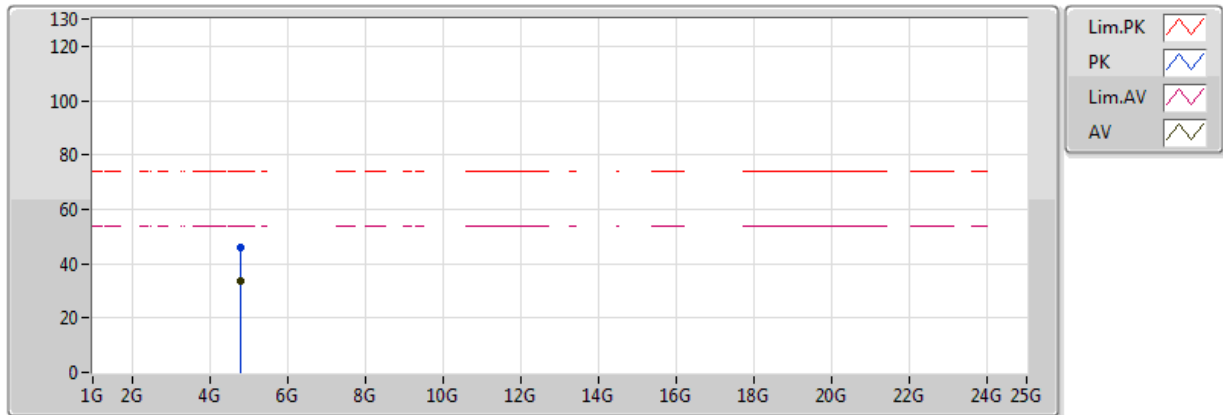
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3692G	54.74	74.00	-19.26	31.03	3	Horizontal	9	1.51	-
AV	2.3826G	42.53	54.00	-11.47	30.99	3	Horizontal	9	1.51	-
PK	2.402G	102.45	Inf	-Inf	30.94	3	Horizontal	9	1.51	-
AV	2.402G	101.32	Inf	-Inf	30.94	3	Horizontal	9	1.51	-

BT-BR(1Mbps)

2402MHz_TX

05/05/2018



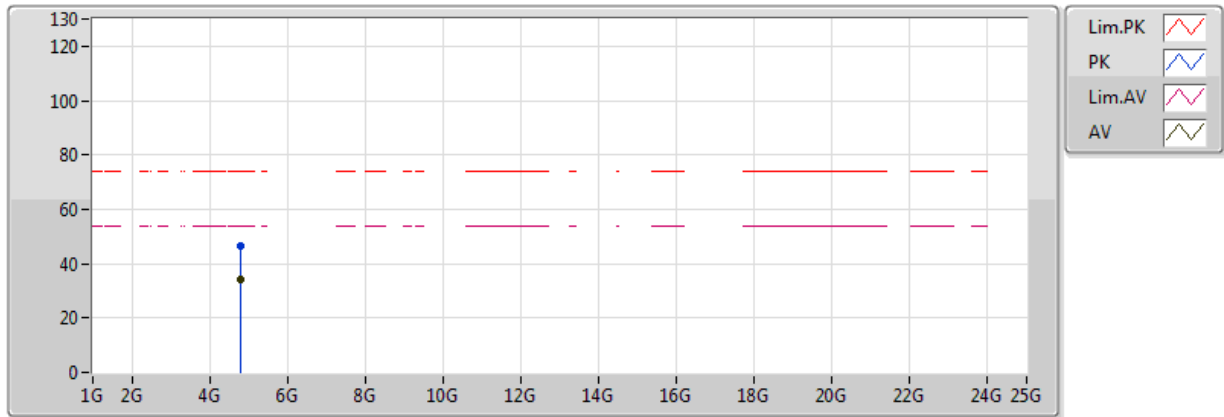
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.8132G	46.10	74.00	-27.90	3.95	3	Vertical	51	1.00	-
AV	4.80392G	33.40	54.00	-20.60	3.92	3	Vertical	51	1.00	-

BT-BR(1Mbps)

2402MHz_TX

05/05/2018



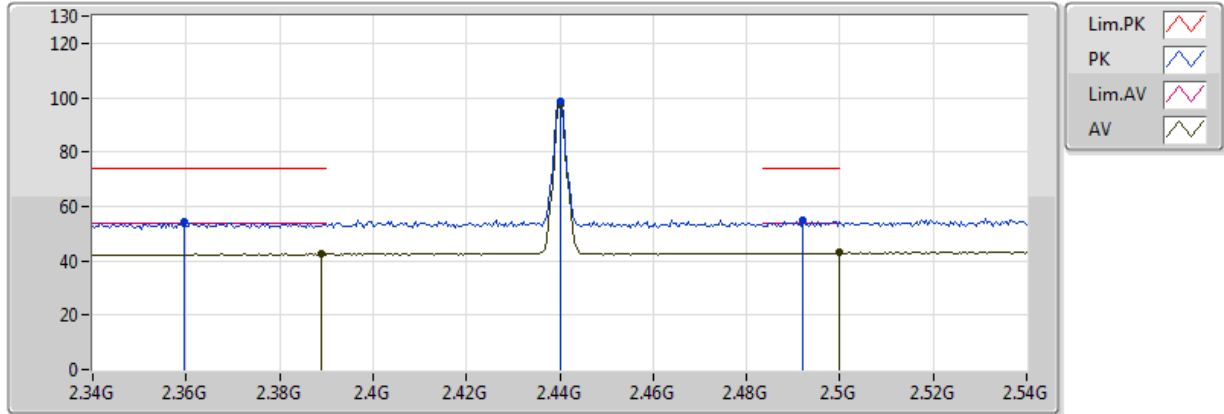
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.80434G	46.66	74.00	-27.34	3.92	3	Horizontal	27	1.47	-
AV	4.80392G	34.35	54.00	-19.65	3.92	3	Horizontal	27	1.47	-

BT-BR(1Mbps)

2440MHz_TX

05/05/2018



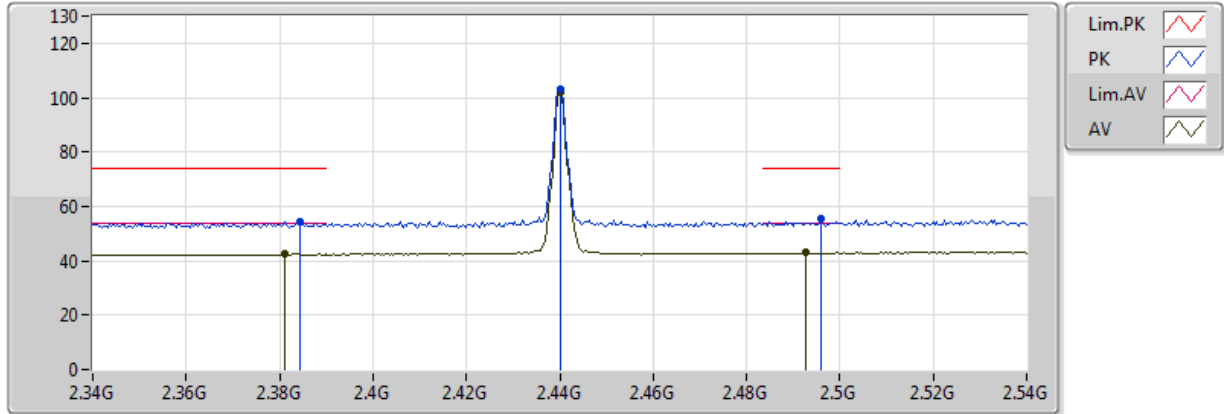
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3596G	54.14	74.00	-19.86	31.05	3	Vertical	168	1.49	-
AV	2.3888G	42.41	54.00	-11.59	30.97	3	Vertical	168	1.49	-
PK	2.44G	98.40	Inf	-Inf	31.05	3	Vertical	168	1.49	-
AV	2.44G	97.27	Inf	-Inf	31.05	3	Vertical	168	1.49	-
PK	2.492G	54.80	74.00	-19.20	31.19	3	Vertical	168	1.49	-
AV	2.499998G	42.91	54.00	-11.09	31.22	3	Vertical	168	1.49	-

BT-BR(1Mbps)

2440MHz_TX

05/05/2018



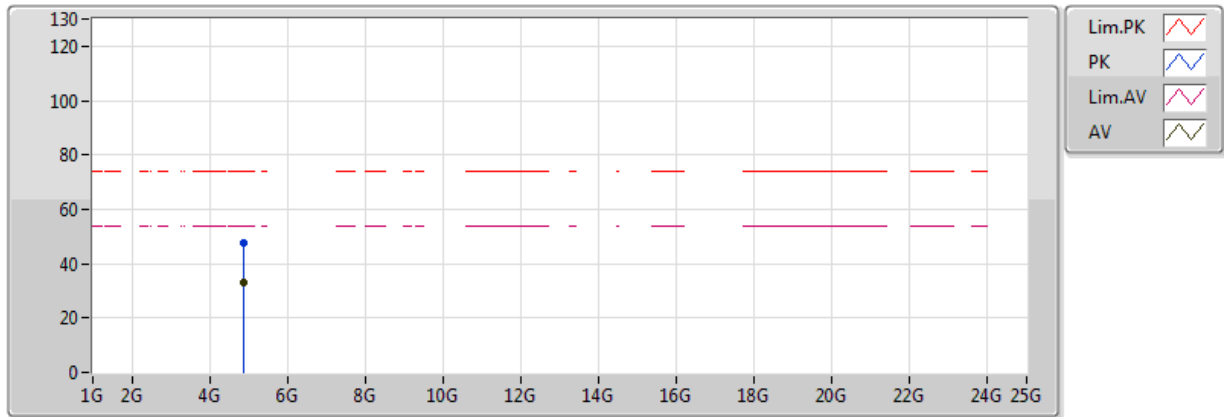
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3844G	54.26	74.00	-19.74	30.97	3	Horizontal	11	1.55	-
AV	2.3812G	42.49	54.00	-11.51	30.99	3	Horizontal	11	1.55	-
PK	2.44G	103.27	Inf	-Inf	31.05	3	Horizontal	11	1.55	-
AV	2.44G	102.08	Inf	-Inf	31.05	3	Horizontal	11	1.55	-
PK	2.496G	55.48	74.00	-18.52	31.21	3	Horizontal	11	1.55	-
AV	2.4928G	43.04	54.00	-10.96	31.20	3	Horizontal	11	1.55	-

BT-BR(1Mbps)

2440MHz_TX

05/05/2018



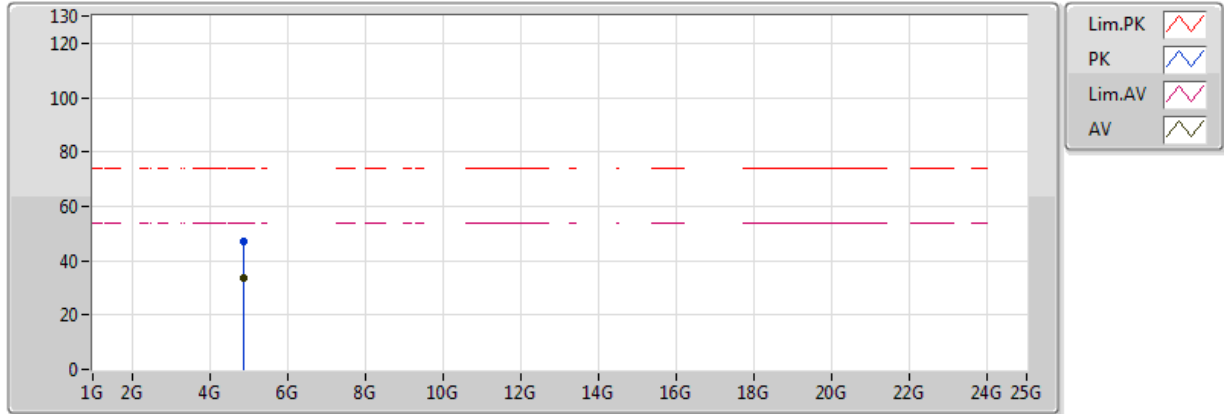
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.87948G	47.74	74.00	-26.26	4.23	3	Vertical	50	1.01	-
AV	4.87986G	32.89	54.00	-21.11	4.23	3	Vertical	50	1.01	-

BT-BR(1Mbps)

2440MHz_TX

05/05/2018



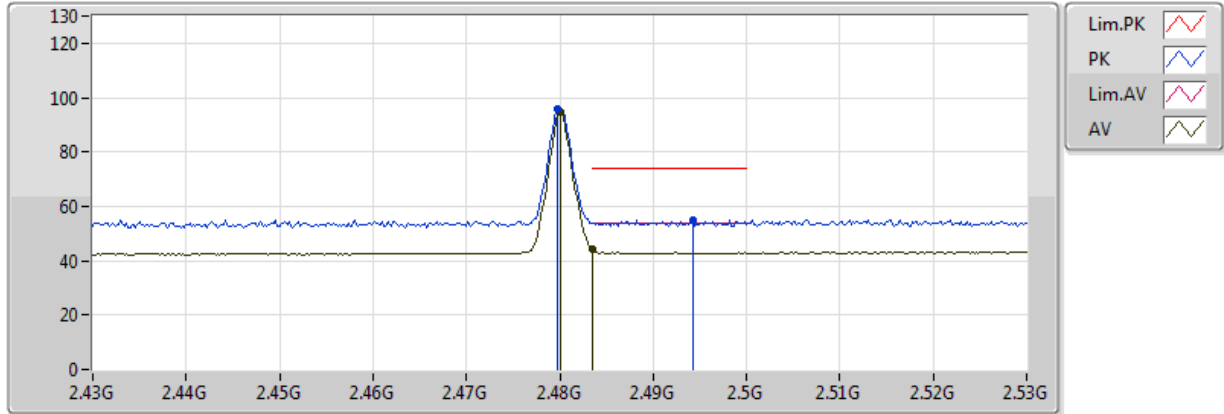
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.88424G	46.91	74.00	-27.09	4.25	3	Horizontal	0	1.52	-
AV	4.88002G	33.62	54.00	-20.38	4.23	3	Horizontal	0	1.52	-

BT-BR(1Mbps)

2480MHz_TX

05/05/2018



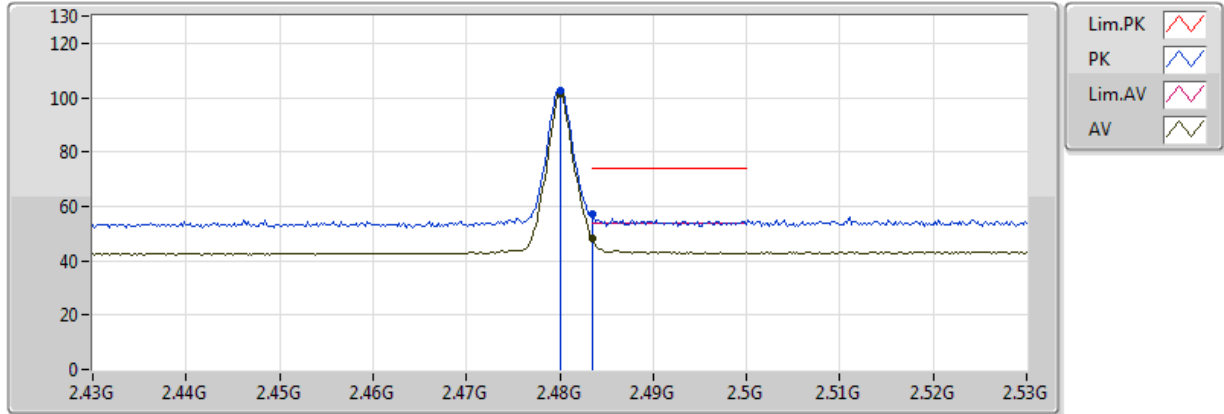
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.4798G	95.94	Inf	-Inf	31.16	3	Vertical	0	1.45	-
AV	2.48G	94.81	Inf	-Inf	31.16	3	Vertical	0	1.45	-
PK	2.4942G	55.17	74.00	-18.83	31.20	3	Vertical	0	1.45	-
AV	2.483502G	44.27	54.00	-9.73	31.17	3	Vertical	0	1.45	-

BT-BR(1Mbps)

2480MHz_TX

05/05/2018



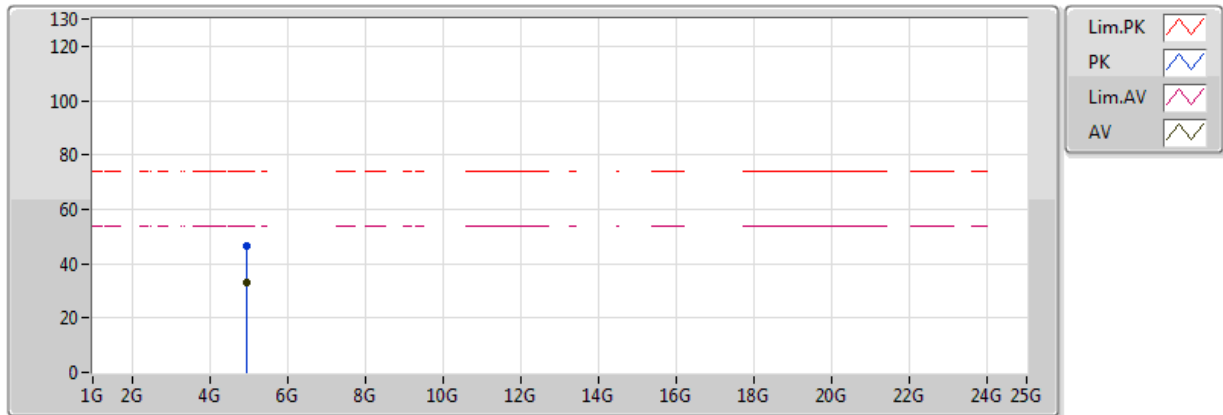
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.48G	102.82	Inf	-Inf	31.16	3	Horizontal	10	1.50	-
AV	2.48G	101.59	Inf	-Inf	31.16	3	Horizontal	10	1.50	-
PK	2.483502G	56.88	74.00	-17.12	31.17	3	Horizontal	10	1.50	-
AV	2.483502G	48.30	54.00	-5.70	31.17	3	Horizontal	10	1.50	-

BT-BR(1Mbps)

2480MHz_TX

05/05/2018



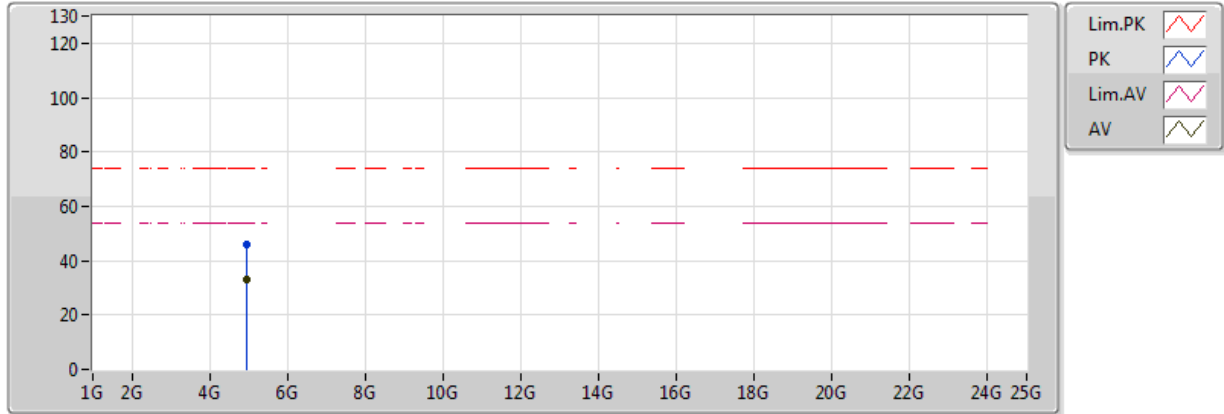
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Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.96034G	46.35	74.00	-27.65	4.55	3	Vertical	238	1.01	-
AV	4.96018G	33.06	54.00	-20.94	4.54	3	Vertical	238	1.01	-

BT-BR(1Mbps)

2480MHz_TX

05/05/2018



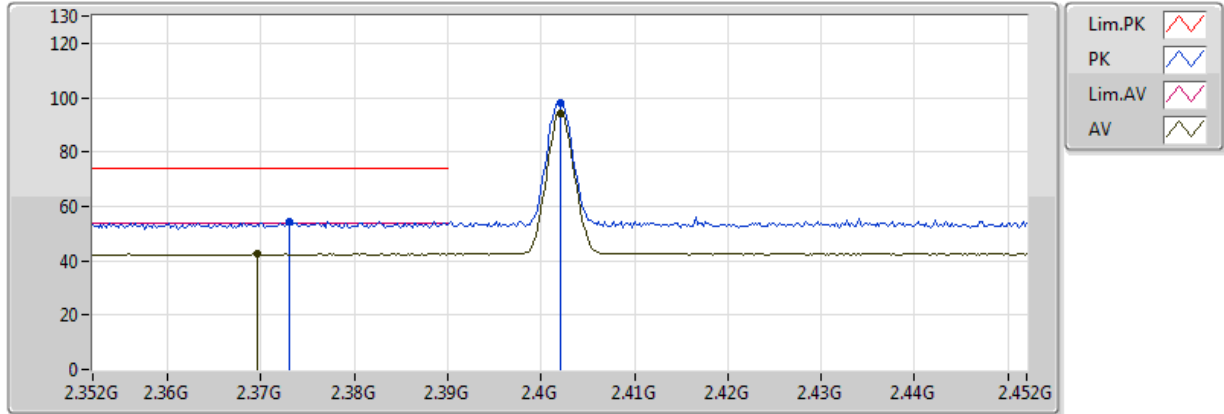
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.95602G	46.01	74.00	-27.99	4.53	3	Horizontal	51	1.64	-
AV	4.96006G	33.15	54.00	-20.85	4.54	3	Horizontal	51	1.64	-

BT-EDR(3Mbps)

2402MHz_TX

05/05/2018



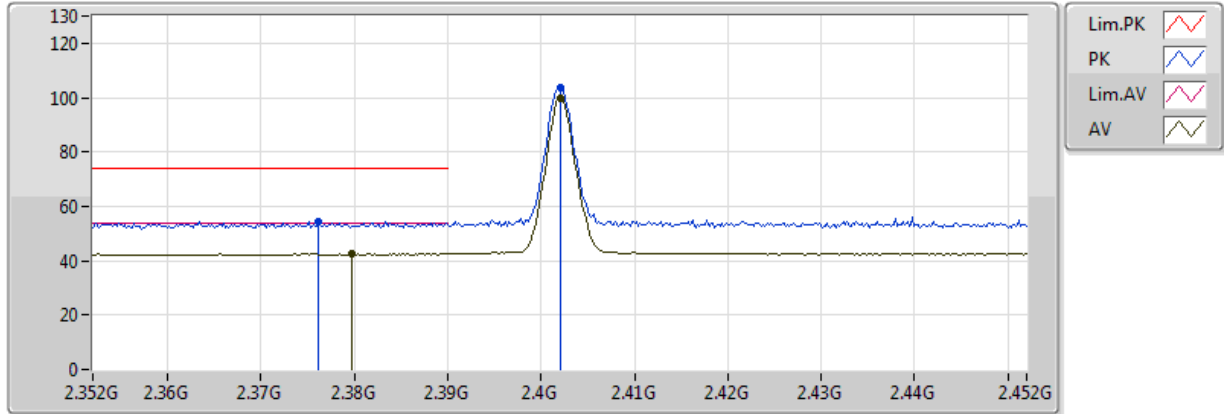
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.373G	54.54	74.00	-19.46	31.01	3	Vertical	171	1.51	-
AV	2.3696G	42.52	54.00	-11.48	31.03	3	Vertical	171	1.51	-
PK	2.402G	98.09	Inf	-Inf	30.94	3	Vertical	171	1.51	-
AV	2.402G	94.39	Inf	-Inf	30.94	3	Vertical	171	1.51	-

BT-EDR(3Mbps)

2402MHz_TX

05/05/2018



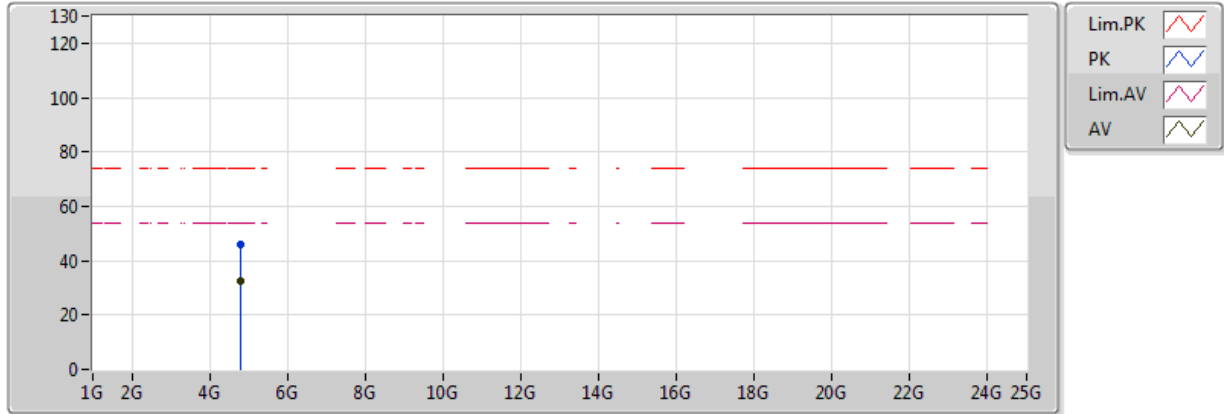
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3762G	54.50	74.00	-19.50	31.01	3	Horizontal	9	1.48	-
AV	2.3798G	42.44	54.00	-11.56	30.99	3	Horizontal	9	1.48	-
PK	2.402G	103.51	Inf	-Inf	30.94	3	Horizontal	9	1.48	-
AV	2.402G	99.77	Inf	-Inf	30.94	3	Horizontal	9	1.48	-

BT-EDR(3Mbps)

2402MHz_TX

05/05/2018



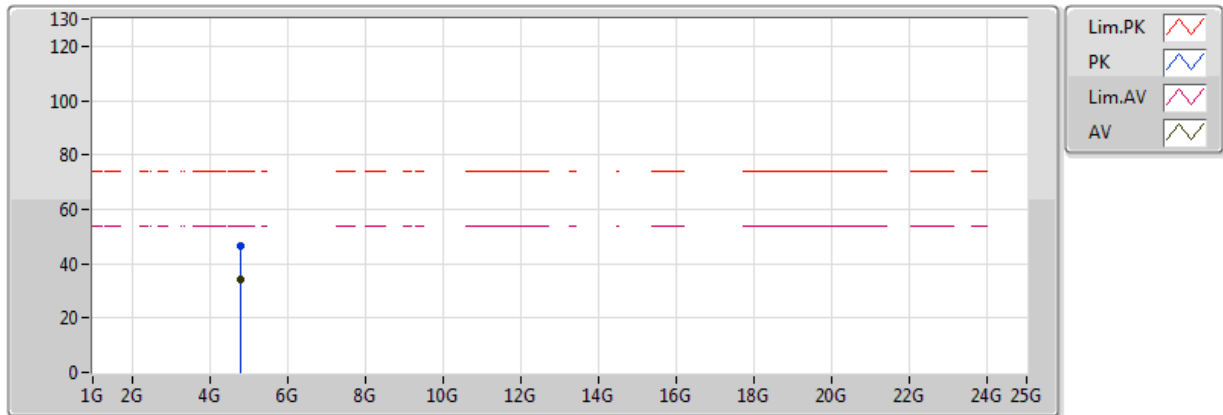
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.8059G	46.03	74.00	-27.97	3.92	3	Vertical	251	1.99	-
AV	4.80432G	32.66	54.00	-21.34	3.92	3	Vertical	251	1.99	-

BT-EDR(3Mbps)

2402MHz_TX

05/05/2018



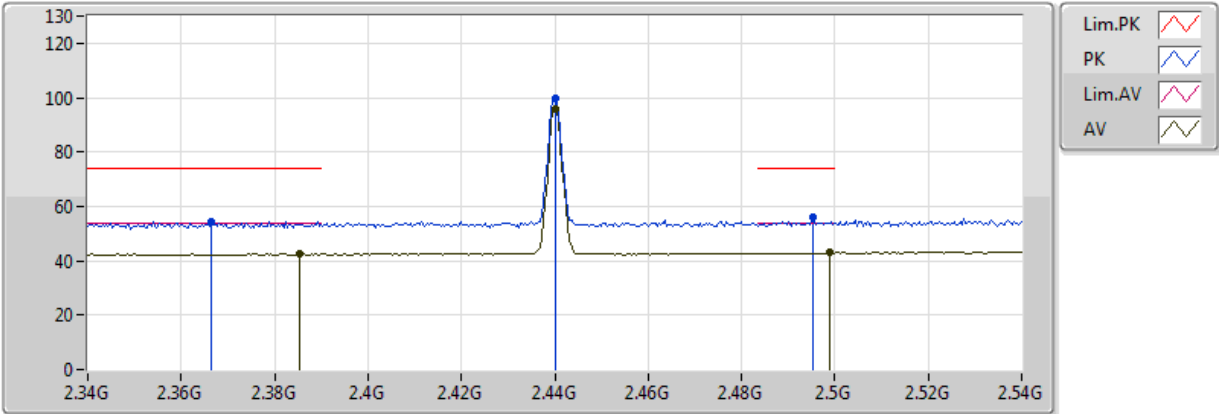
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.80398G	46.54	74.00	-27.46	3.92	3	Horizontal	2	1.50	-
AV	4.80396G	34.34	54.00	-19.66	3.92	3	Horizontal	2	1.50	-

BT-EDR(3Mbps)

2440MHz_TX

05/05/2018



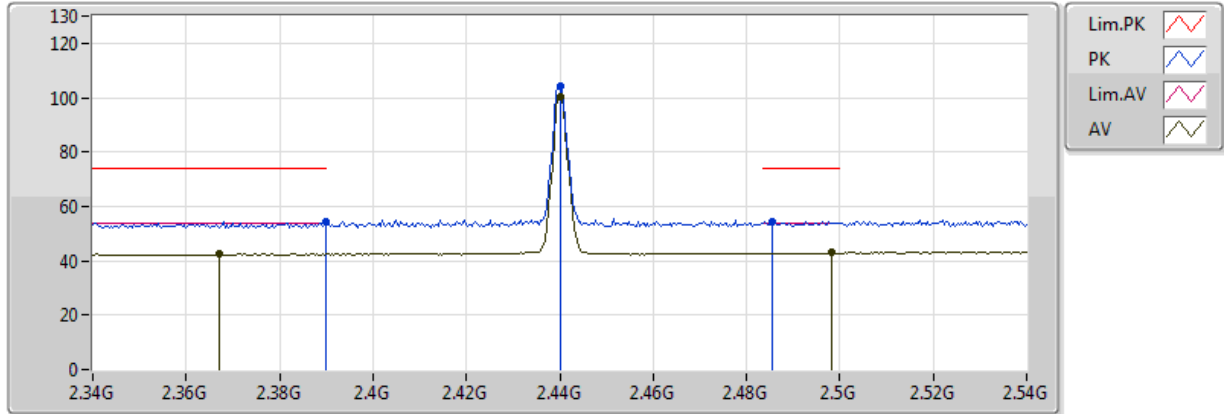
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.3664G	54.44	74.00	-19.56	31.03	3	Vertical	170	1.52	-
AV	2.3852G	42.43	54.00	-11.57	30.97	3	Vertical	170	1.52	-
PK	2.44G	99.81	Inf	-Inf	31.05	3	Vertical	170	1.52	-
AV	2.44G	95.81	Inf	-Inf	31.05	3	Vertical	170	1.52	-
PK	2.4952G	55.85	74.00	-18.15	31.21	3	Vertical	170	1.52	-
AV	2.4988G	42.87	54.00	-11.13	31.21	3	Vertical	170	1.52	-

BT-EDR(3Mbps)

2440MHz_TX

05/05/2018



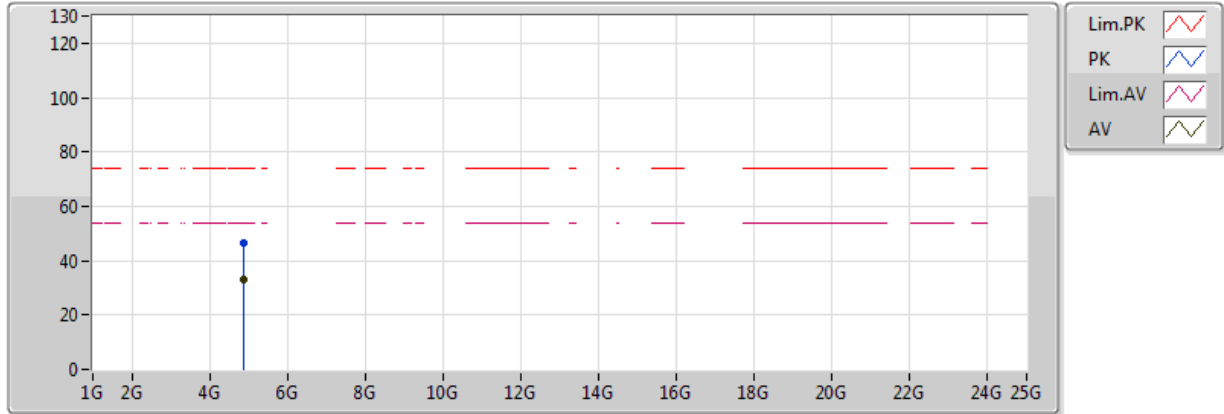
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.389998G	54.22	74.00	-19.78	30.97	3	Horizontal	11	1.50	-
AV	2.3672G	42.46	54.00	-11.54	31.03	3	Horizontal	11	1.50	-
PK	2.44G	104.26	Inf	-Inf	31.05	3	Horizontal	11	1.50	-
AV	2.44G	100.51	Inf	-Inf	31.05	3	Horizontal	11	1.50	-
PK	2.4856G	54.54	74.00	-19.46	31.18	3	Horizontal	11	1.50	-
AV	2.4984G	42.87	54.00	-11.13	31.21	3	Horizontal	11	1.50	-

BT-EDR(3Mbps)

2440MHz_TX

05/05/2018



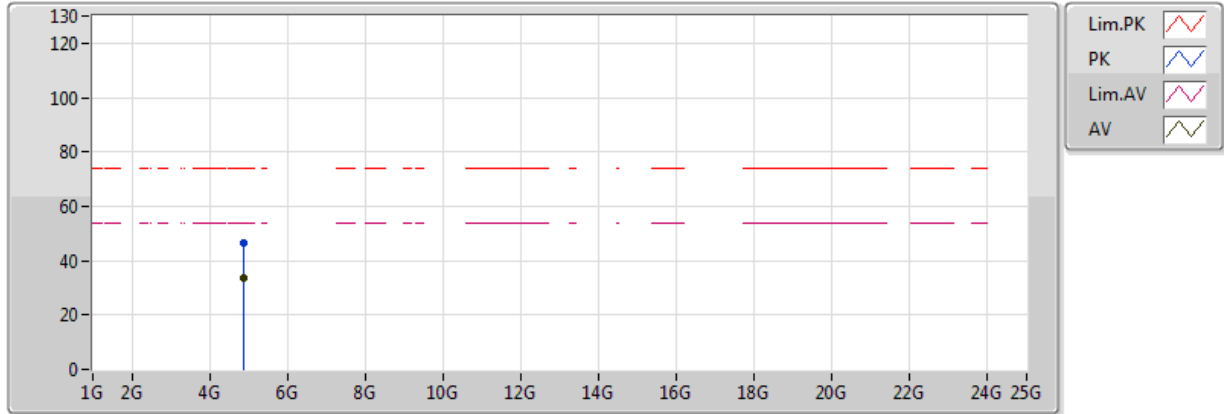
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.88302G	46.27	74.00	-27.73	4.24	3	Vertical	127	1.10	-
AV	4.8811G	32.79	54.00	-21.21	4.23	3	Vertical	127	1.10	-

BT-EDR(3Mbps)

2440MHz_TX

05/05/2018



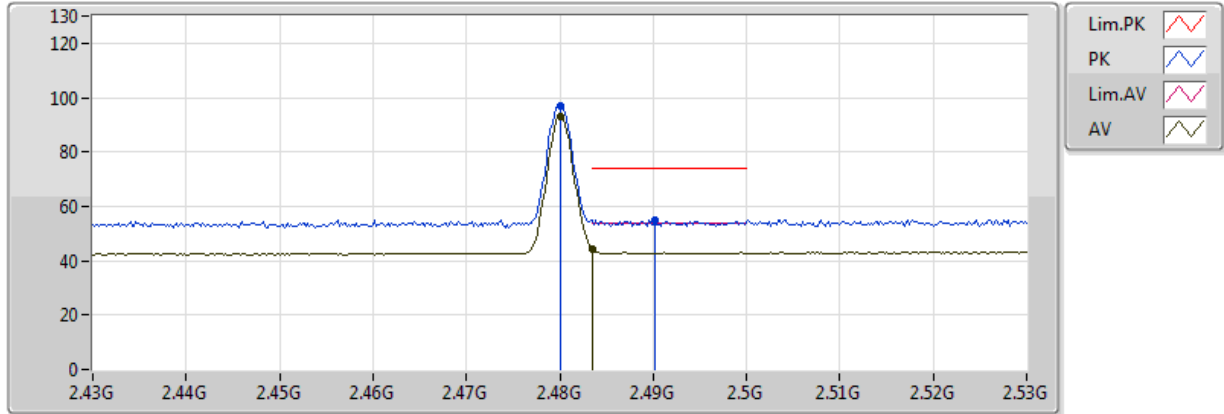
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.8815G	46.43	74.00	-27.57	4.23	3	Horizontal	21	1.50	-
AV	4.88016G	33.42	54.00	-20.58	4.23	3	Horizontal	21	1.50	-

BT-EDR(3Mbps)

2480MHz_TX

05/05/2018



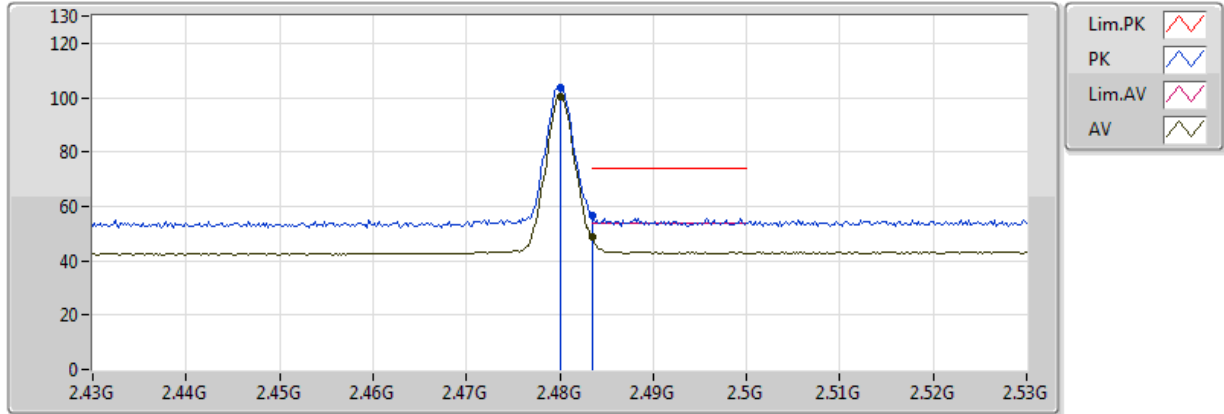
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.48G	96.84	Inf	-Inf	31.16	3	Vertical	0	1.47	-
AV	2.48G	93.06	Inf	-Inf	31.16	3	Vertical	0	1.47	-
PK	2.4902G	54.92	74.00	-19.08	31.19	3	Vertical	0	1.47	-
AV	2.483502G	44.37	54.00	-9.63	31.17	3	Vertical	0	1.47	-

BT-EDR(3Mbps)

2480MHz_TX

05/05/2018



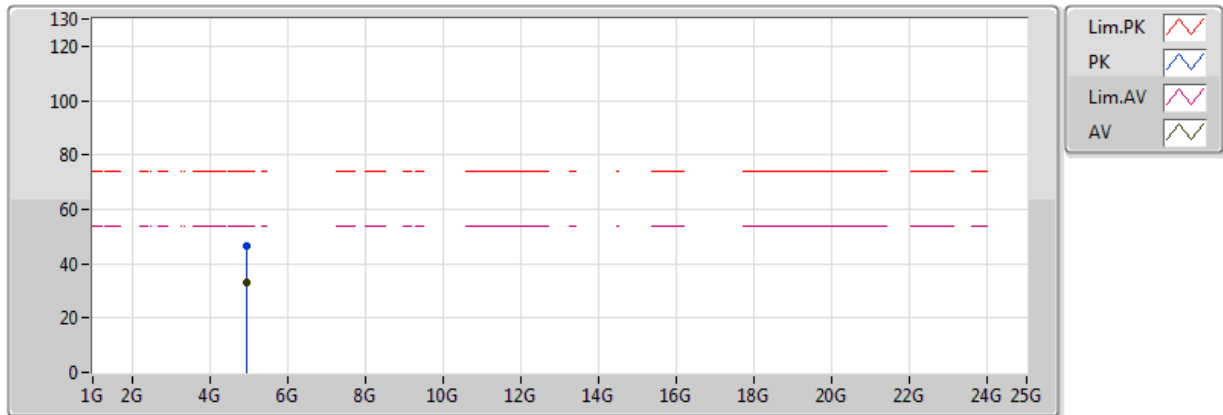
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	2.48G	103.89	Inf	-Inf	31.16	3	Horizontal	10	1.17	-
AV	2.48G	100.17	Inf	-Inf	31.16	3	Horizontal	10	1.17	-
PK	2.483502G	56.66	74.00	-17.34	31.17	3	Horizontal	10	1.17	-
AV	2.483502G	48.63	54.00	-5.37	31.17	3	Horizontal	10	1.17	-

BT-EDR(3Mbps)

2480MHz_TX

05/05/2018



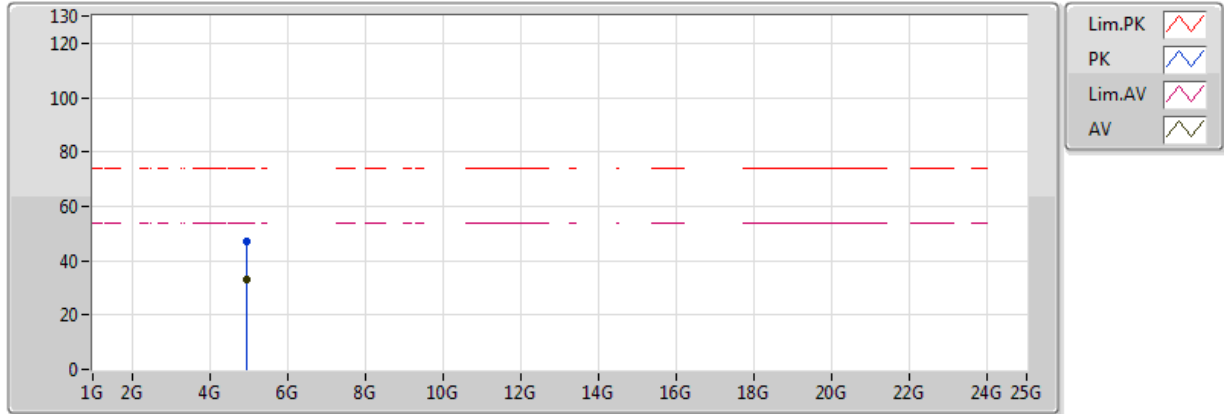
EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.95638G	46.37	74.00	-27.63	4.53	3	Vertical	169	1.50	-
AV	4.96398G	32.97	54.00	-21.03	4.56	3	Vertical	169	1.50	-

BT-EDR(3Mbps)

2480MHz_TX

05/05/2018



EUT Y_1TX
Setting 7
01-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	4.96218G	47.22	74.00	-26.78	4.55	3	Horizontal	2	1.44	-
AV	4.95992G	33.28	54.00	-20.72	4.54	3	Horizontal	2	1.44	-