



FCC Test Report

Equipment : Wall plate 802.11ac Wave 2, 2x2:2, BT, Internal Antenna
Brand Name : Extreme Networks
Model No. : AP-7612
FCC ID : QXO-AP7612
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Applicant : Extreme Networks, Inc.
6480 Via Del Oro, San Jose, CA 95119
Manufacturer : Extreme Networks, Inc.
6480 Via Del Oro, San Jose, CA 95119

The product sample received on Apr. 13, 2017 and completely tested on May 31, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given inanes 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 INTERNATIONALINC., the test report shall not be reproduced except in full.


Sam Chen
SPORTON INTERNATIONAL INC.



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Summary of Test Result

Conformance Test Specifications				
Report Clause	Ref. Std. Clause	Description	Limit	Result
1.1.2	15.203	Antenna Requirement	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	FCC 15.207	Complied
3.2	15.247(a)	20dB Bandwidth	15.247(a)	Complied
3.2	15.247(a)	Carrier Frequency Separation	15.247(a)	Complied
3.3	15.247(b)	Maximum Conducted Output Power	15.247(b)	Complied
3.4	15.247(a)	Number of Hopping Frequencies and Hopping Band edge	15.247(a)	Complied
3.5	15.247(a)	Time of Occupancy (Dwell Time)	15.247(a)	Complied
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	15.247(d)	Complied
3.7	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied



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FCC ID: QXO-AP7612

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 channel separation
- ♦ 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.	Brand	P/N	Antenna Type	Connector	Gain (dBi)		
					2.4G	5G	BT
1	WNC	95XKAA15.GBO	Dipole Antenna	I-PEX	5.4	-	-
2	WNC	95XKAA15.GBP	Dipole Antenna	I-PEX	5.4	-	-
3	WNC	95XKAA15.GBR	Dipole Antenna	I-PEX	-	8.5	-
4	WNC	95XKAA15.GBQ	Dipole Antenna	I-PEX	-	8.5	-
5	WNC	95XKAA15.GBS	Dipole Antenna	I-PEX	-	-	3.7

Note: The EUT has five antennas.

<For 2.4GHz Function>
For IEEE 802.11b/g/n/ac mode (1TX, 2RX):
Ant. 1 connect to port 2 and Ant. 2 connect to port 1

The EUT supports the Ant. 1 and Ant. 2 with TX diversity function.

Ant. 2 generated the worst case than Ant. 1, so it is tested and recorded in the report.

Ant. 1 and Ant. 2 could receive simultaneously.

For IEEE 802.11b/g/n/ac mode (2TX, 2RX):
Ant. 1 connect to port 1 and Ant. 2 connect to port 2

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

<For 5GHz Function>
For IEEE 802.11a/n/ac mode (1TX, 2RX):
Ant. 3 connect to port 2 and Ant. 4 connect to port 1

The EUT supports the Ant. 3 and Ant. 4 with TX diversity function.

Ant. 4 generated the worst case than Ant. 3, so it is tested and recorded in the report.

Ant. 3 and Ant. 4 could receive simultaneously.

For IEEE 802.11a/n/ac mode (2TX, 2RX):
Ant. 3 connect to port 1 and Ant. 4 connect to port 2

Ant. 3 and Ant. 4 could transmit/receive simultaneously.

<For Bluetooth Function>
For bluetooth mode (1TX, 1RX):
Ant. 5 connect to port 1

Only Ant. 5 can be used as transmitting/receiving antenna.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)
BT-BR(1Mbps)	0.744	1.284
BT-EDR(2Mbps)	0.757	1.209
BT-EDR(3Mbps)	0.785	1.051

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or PoE
-----------------------	---------------------------

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

1.3 Testing Location Information

Testing Location		
☐	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
☒	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	22°C / 54%	Apr. 27, 2017 ~ May 13, 2017
Radiated below 1GHz	03CH01-CB	Welson Chen & Paul Chen & Justin Lin	22°C / 54%	May 06, 2017
Radiated above 1GHz	03CH01-CB	Welson Chen & Paul Chen & Justin Lin	22°C / 54%	Apr. 21, 2017 ~ May 31, 2017
AC Conduction	CO01-CB	Kane Liu	22°C / 58%	May 08, 2017

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 x10 ⁻⁸	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	Default
2442MHz	Default
2480MHz	Default
BT-EDR(2Mbps)	-
2402MHz	Default
2442MHz	Default
2480MHz	Default
BT-EDR(3Mbps)	-
2402MHz	Default
2442MHz	Default
2480MHz	Default

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 + Adapter
2	EUT + PoE
For operating mode 2 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

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 in Y axis + Adapter
2	EUT in Y axis + PoE
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
1	EUT in Y axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA741335 for Co-location RF Exposure Evaluation.	

Note1: The EUT can only use Y axis position.

Note2: The PoE was for measurement only, would not be marketed.

The PoE information as below:

Support Unit	Brand	Model Number
PoE	Microsemi	PD-6238G300

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories			
Equipment Name	Brand Holder	Model Name	Rating
Adapter (Interchangeable plug)	Powertron Electronics Corp.	PA1024-120IB200	INPUT: 100-240V ~ 50-60Hz, 0.6A OUTPUT: 12V, 2.0A, 24W Max
Other			
EU plug*1 / BZ plug*1 / AU plug*1			
China plug*1 / US plug*1 / UK plug*1			
Wall-mounted rack*1			

Note: Adapter could change six different plugs (EU, BZ, AU, China, US and UK), only adapter with US plug was selected to test and recorded in this report as a result.

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*4	DELL	E6430	DoC
2	CBT Bluetooth tester	Anritsu	MT8852B	DoC
3	PoE	Microsemi	PD-6238G300	DoC

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

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	NB*2	Apple	Mac Book	DoC
3	CBT Bluetooth tester	Anritsu	MT8852B	DoC

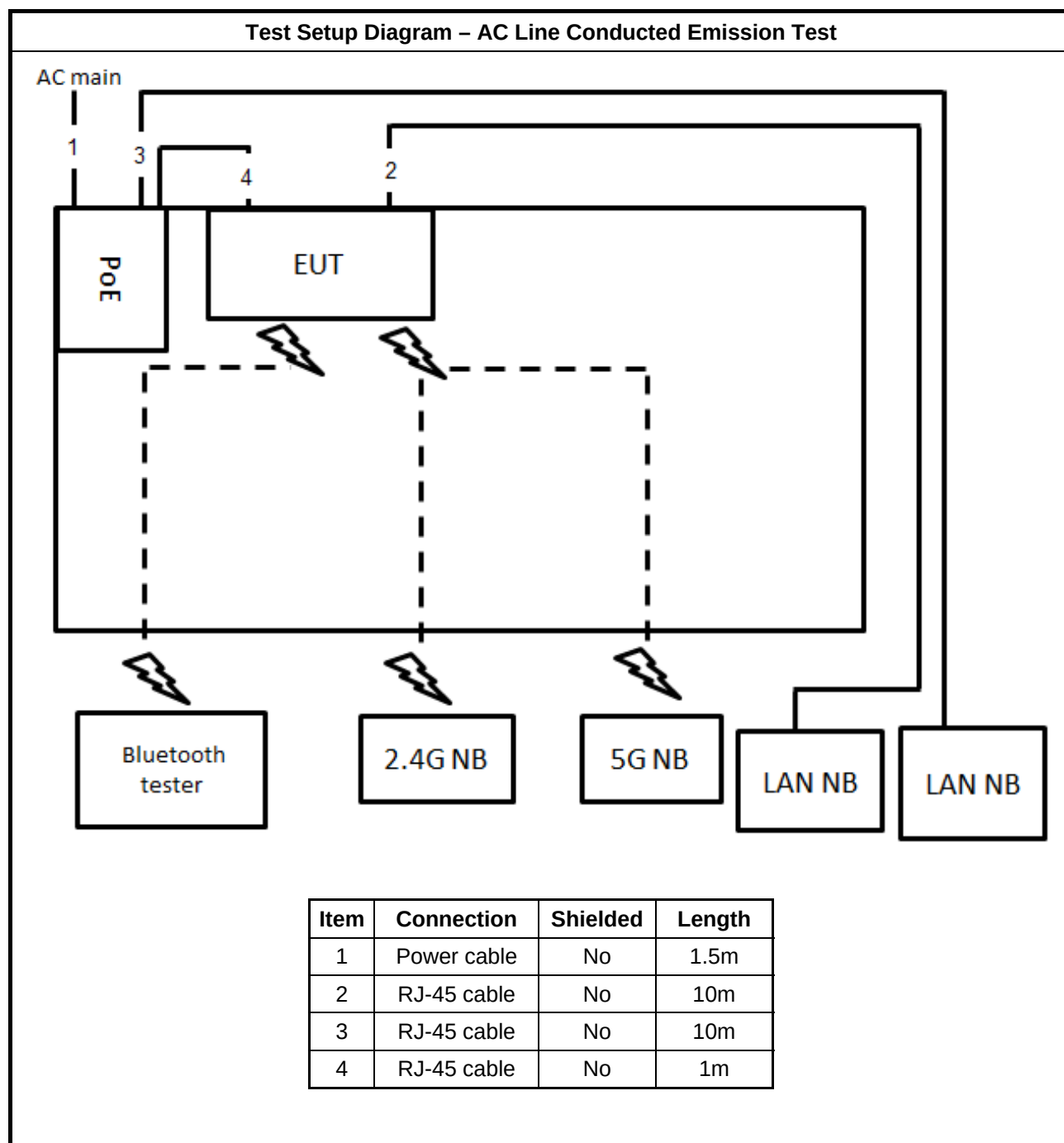
For Test Site No: 03CH01-CB (above 1GHz)

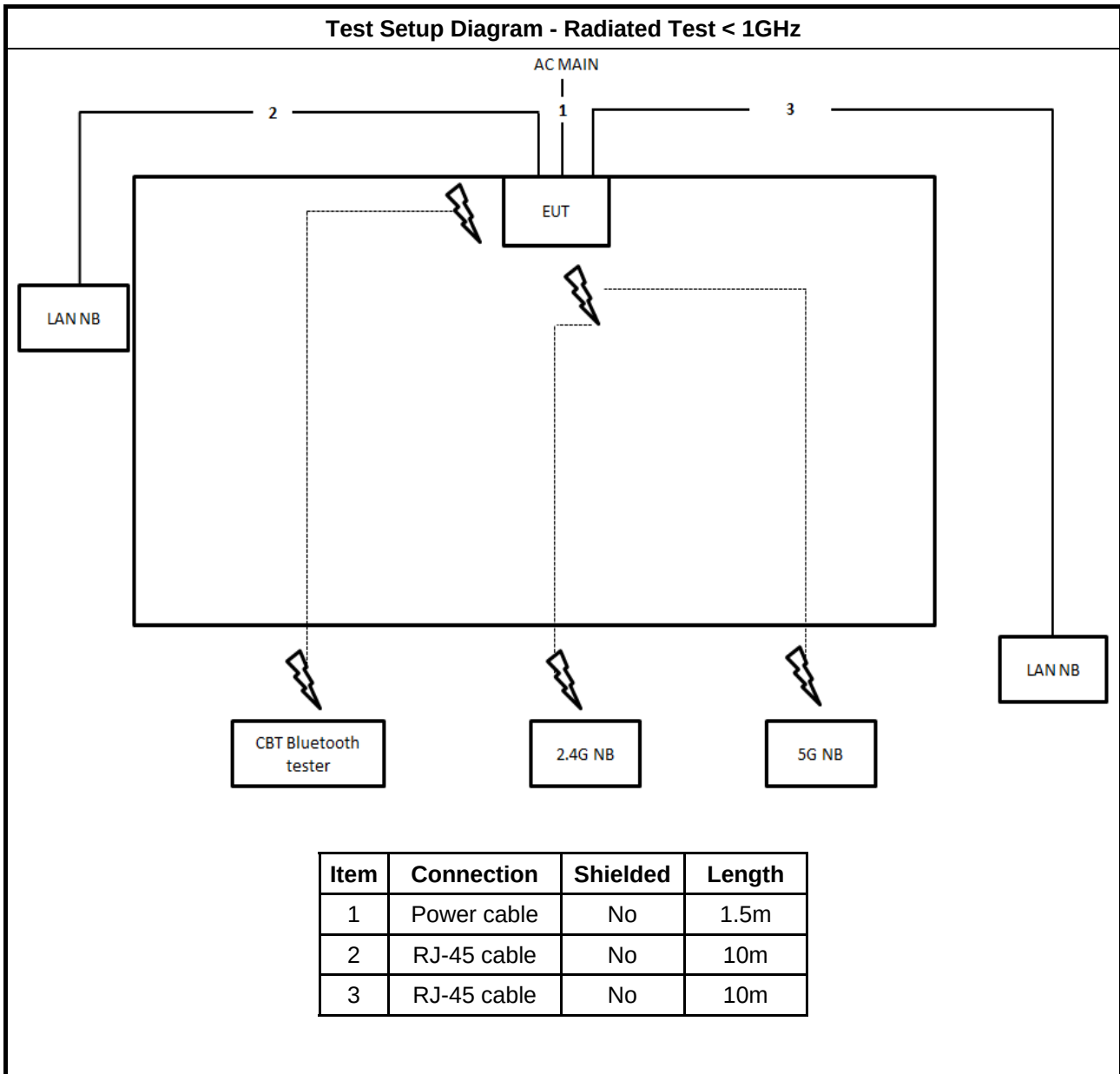
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

For Test Site No: TH01-CB

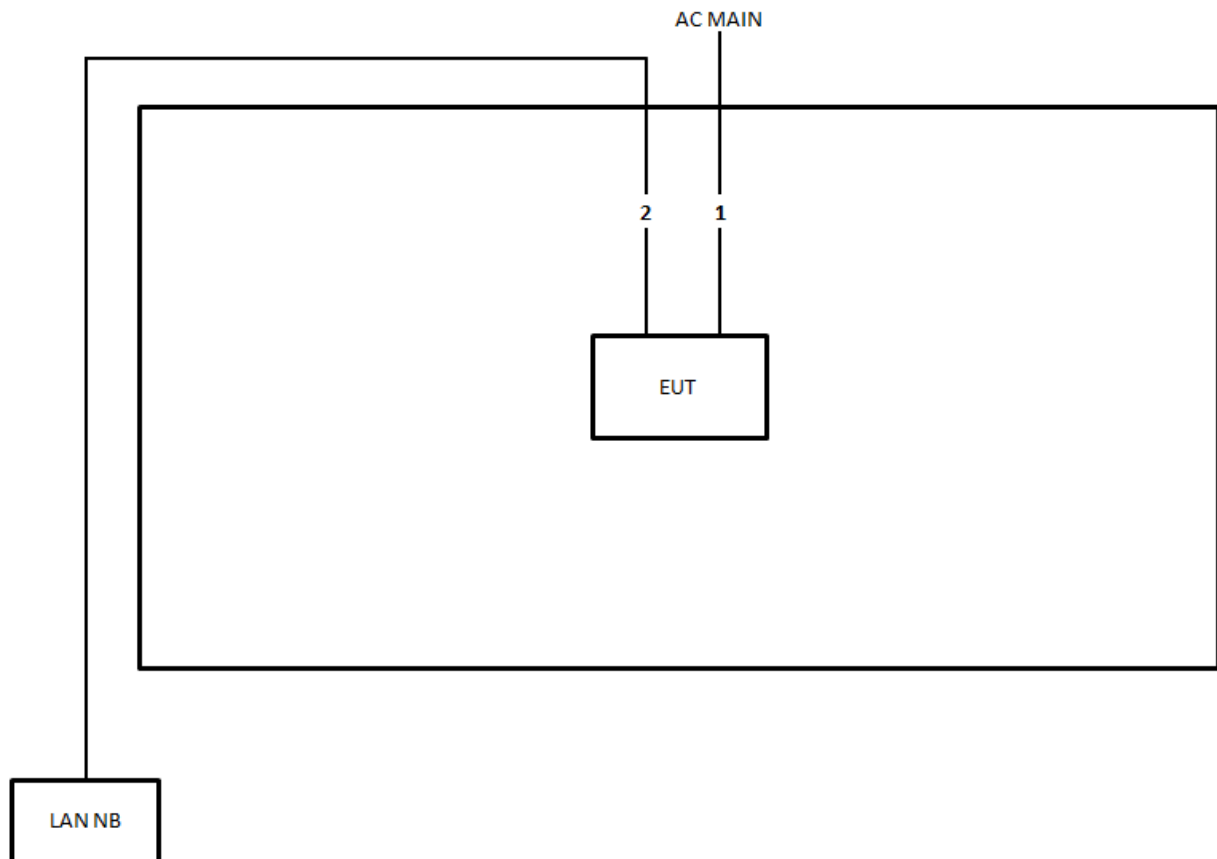
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m

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.

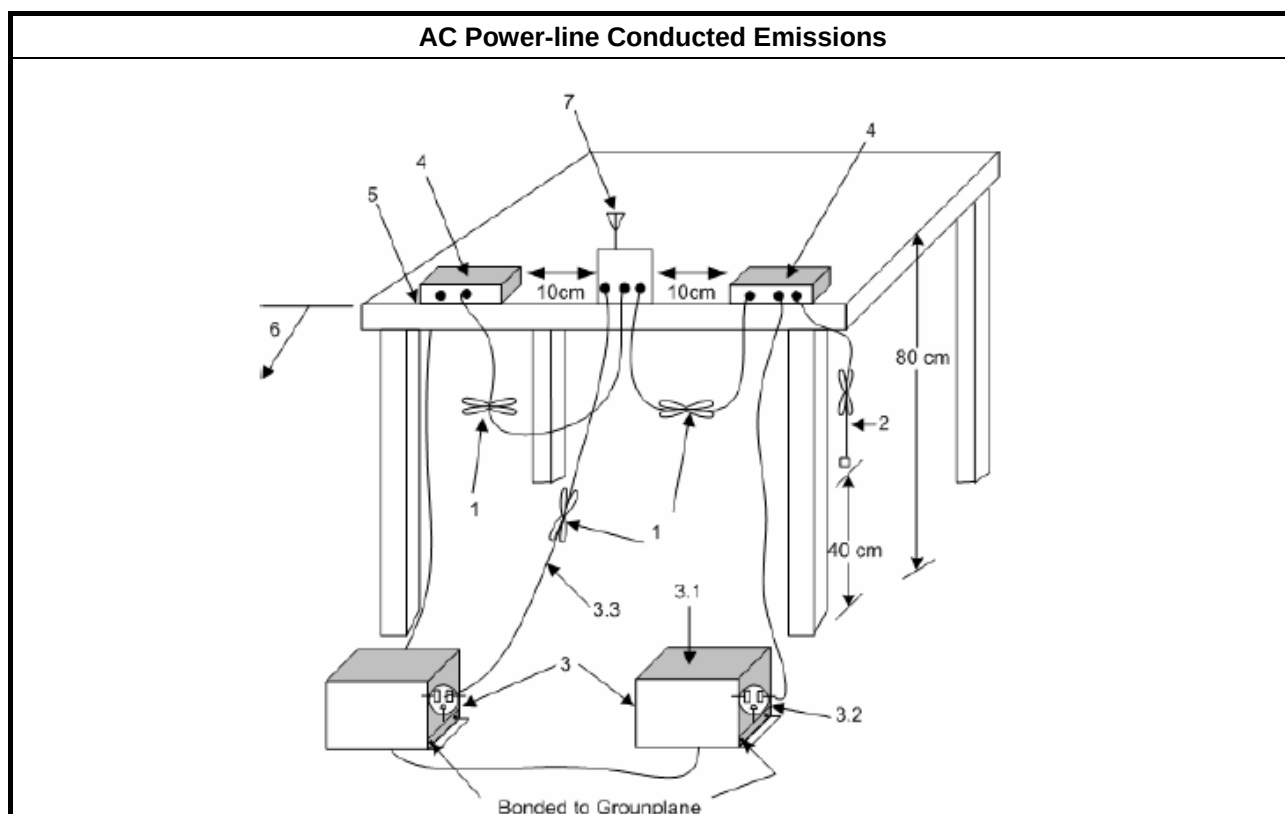
3.1.2 Measuring Instruments

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	

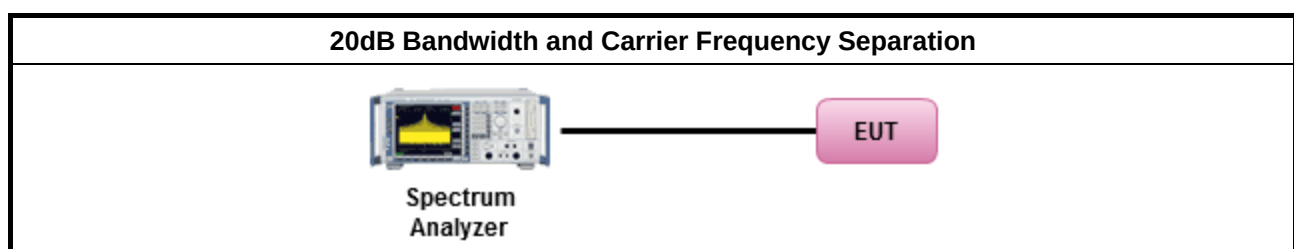
3.2.2 Measuring Instruments

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

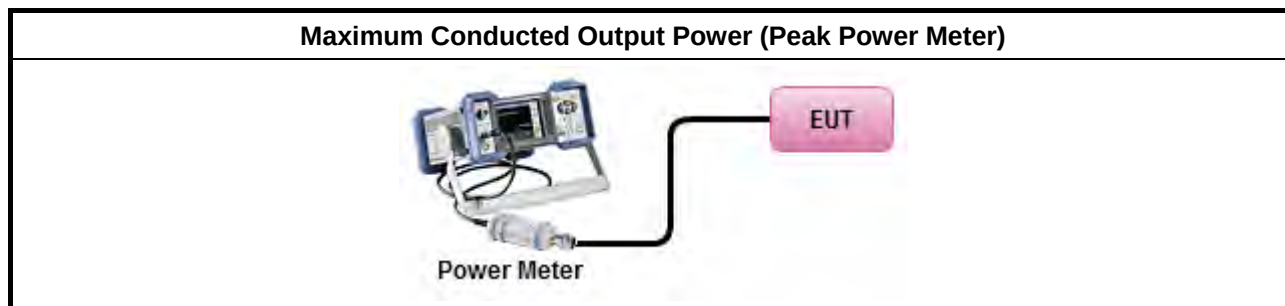
3.3.2 Measuring Instruments

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

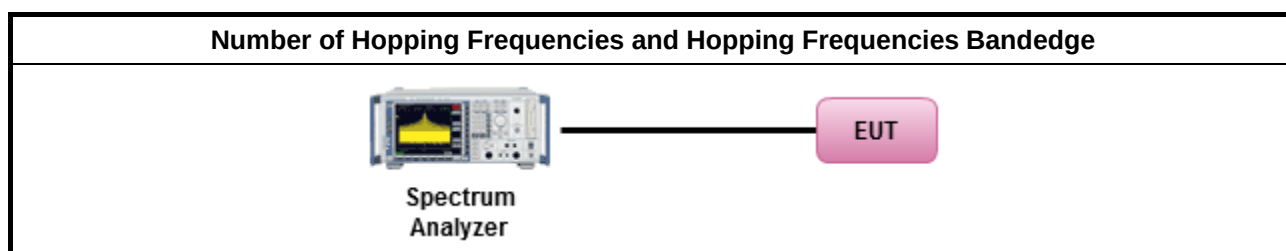
3.4.3 Measuring Instruments

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	

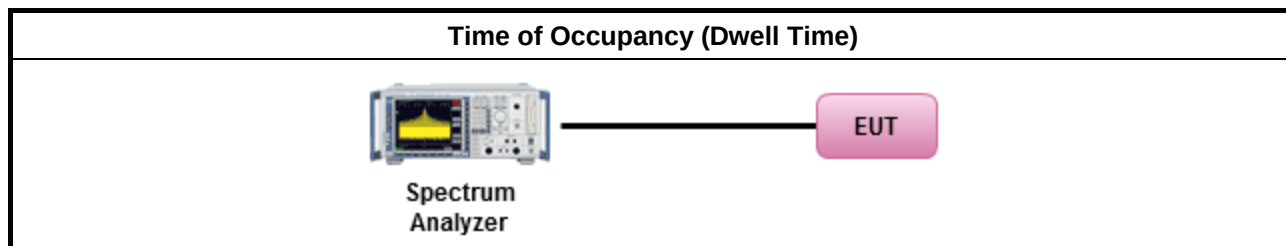
3.5.2 Measuring Instruments

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.	

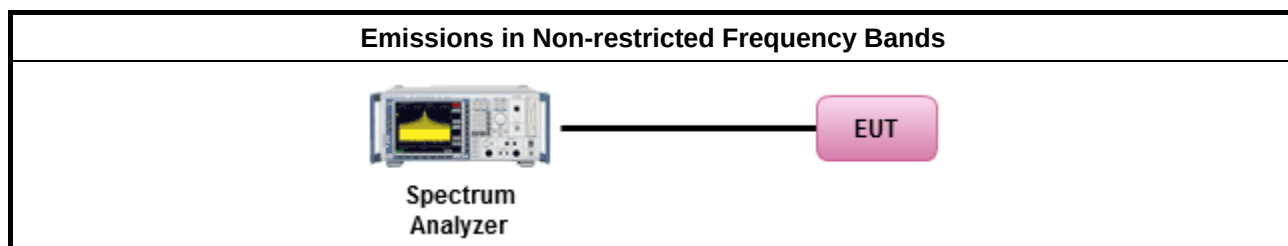
3.6.2 Measuring Instruments

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.

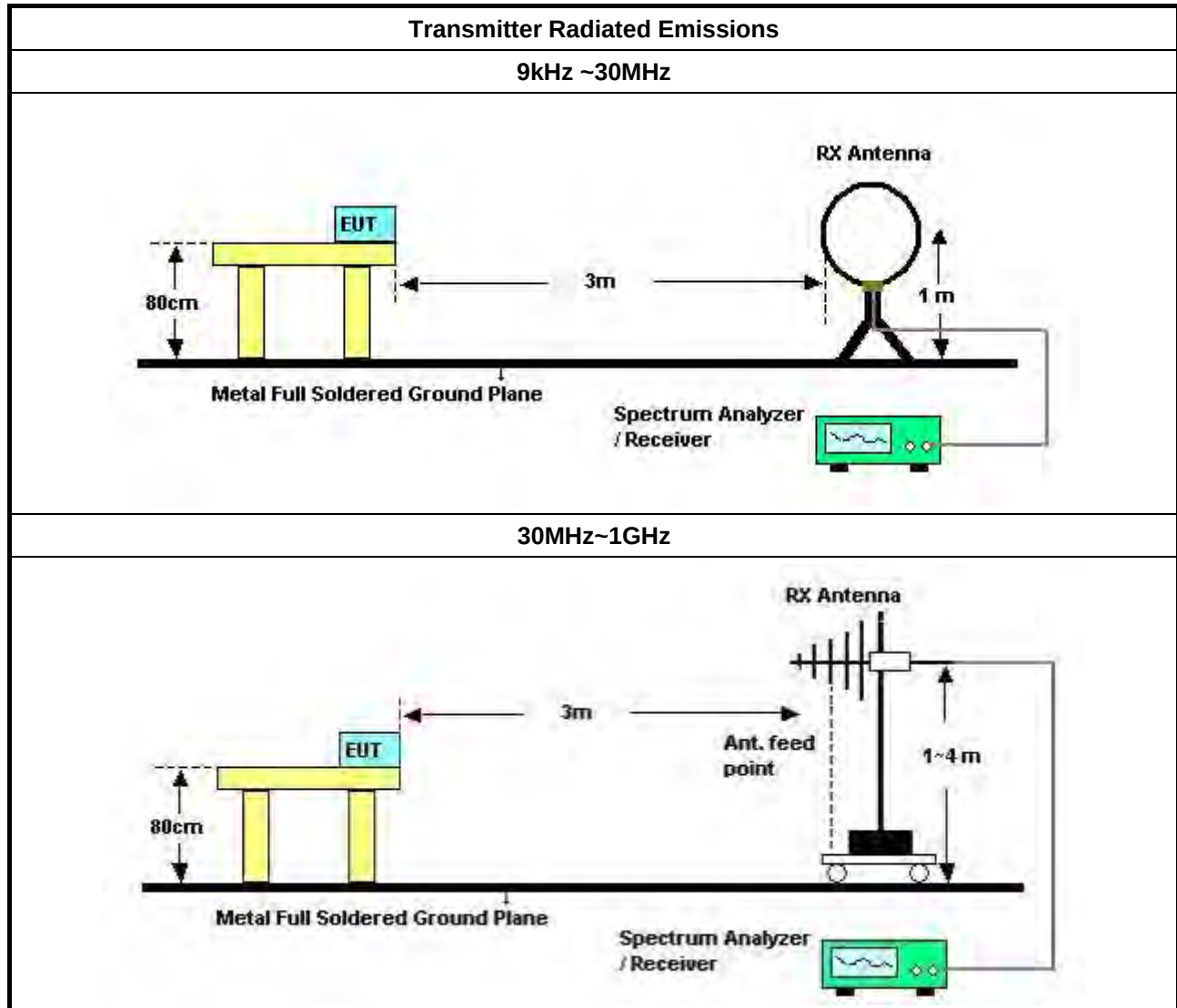
3.7.2 Measuring Instruments

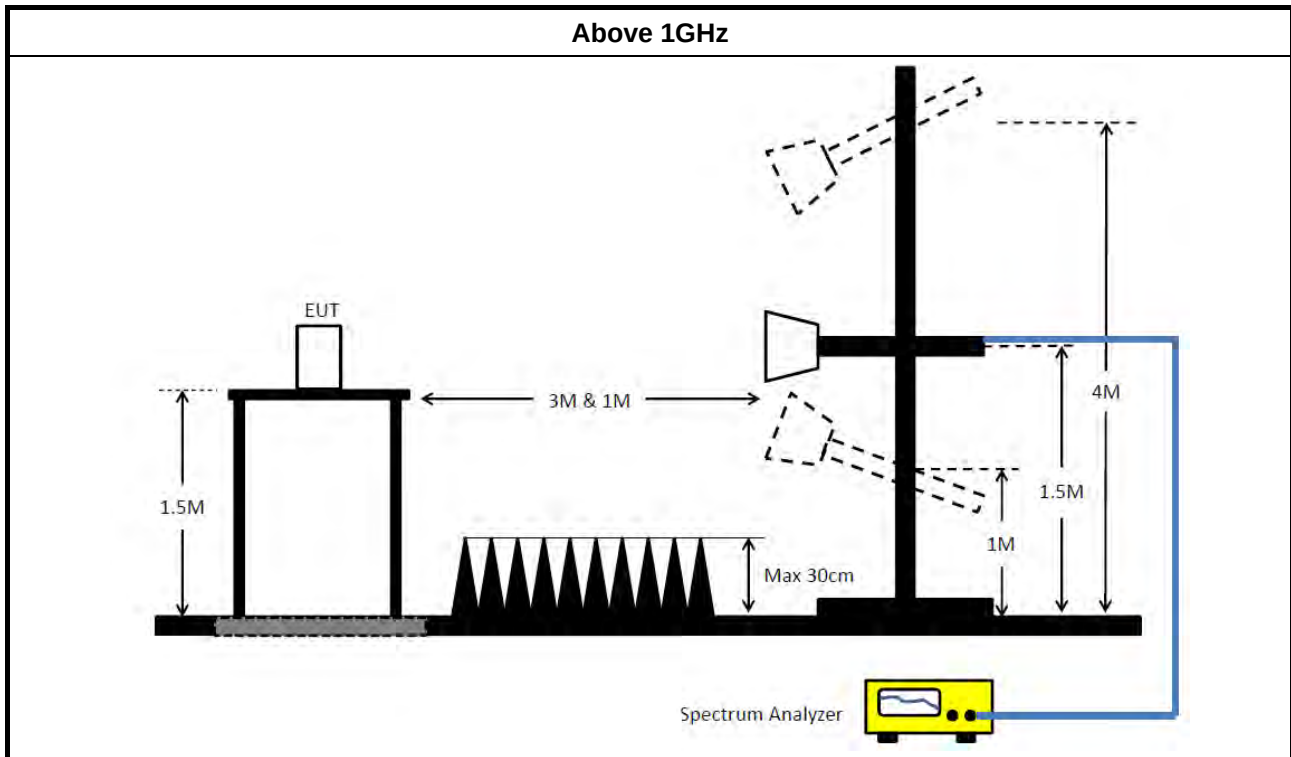
Refer a test equipment and calibration data table in this test report.

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.

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	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz~100MHz	Dec. 14, 2016	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jun. 28, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	RG402	High Cable-6	1 GHz~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz ~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz ~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz ~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Conducted (TH01-CB)

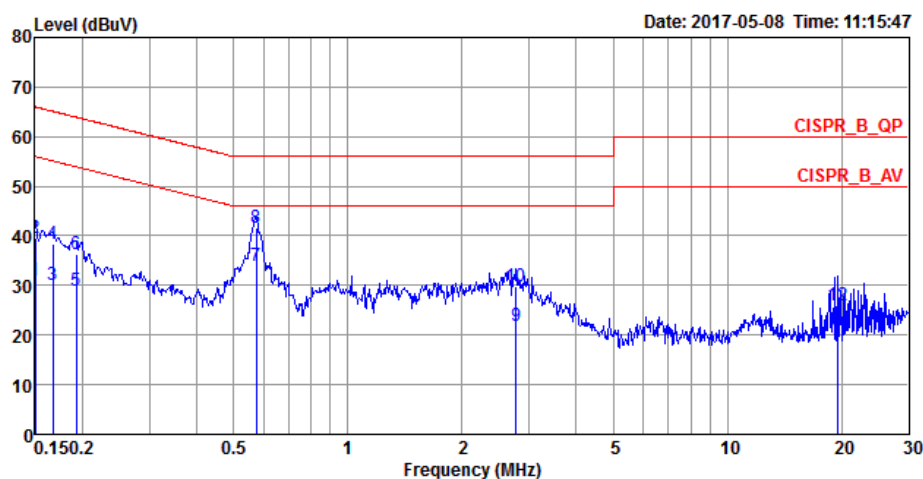
Note: Calibration Interval of instruments listed above is one year.

“*” Calibration Interval of instruments listed above is two years.

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

AC Power-line Conducted Emissions Result

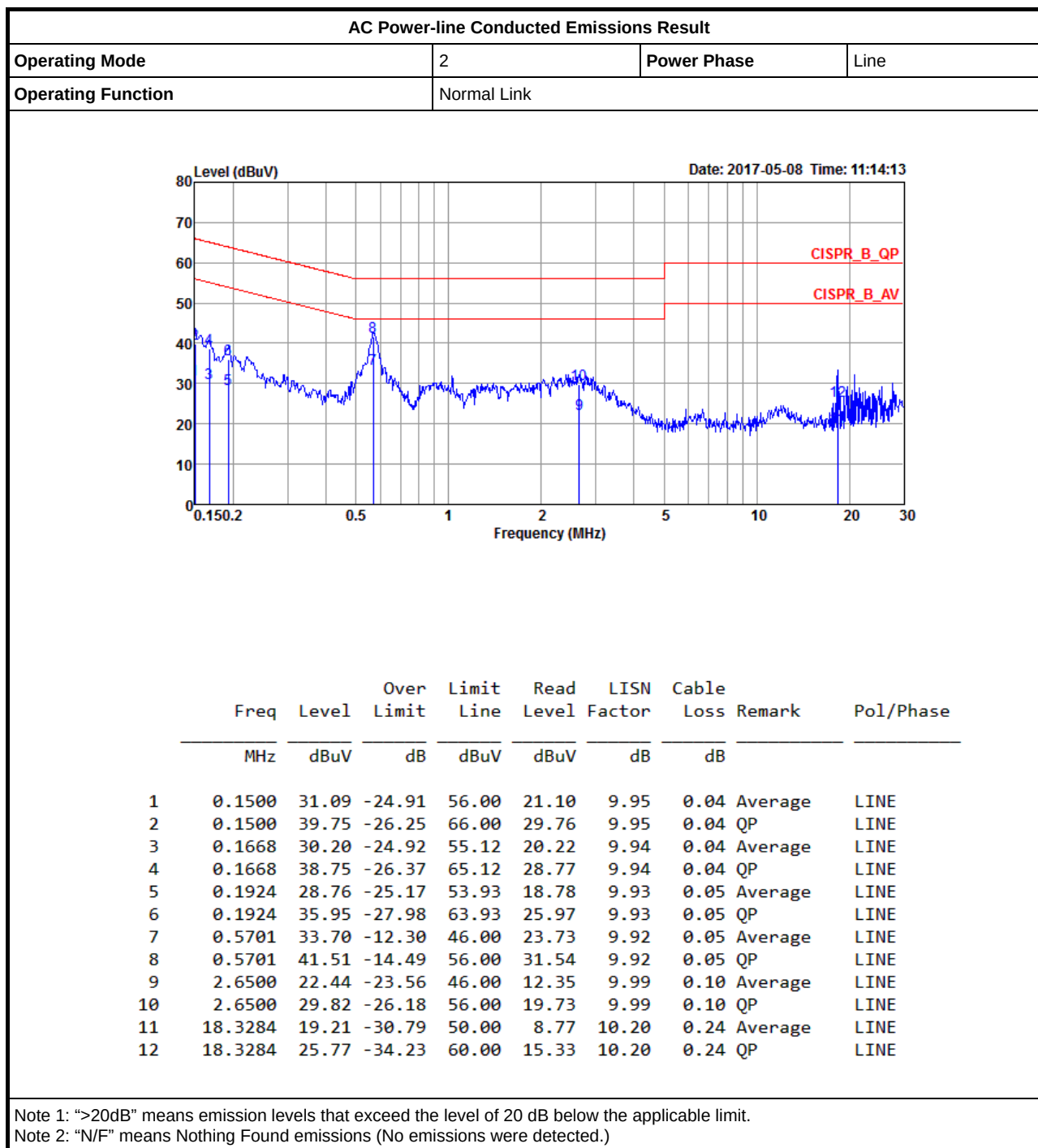
Operating Mode	2	Power Phase	Neutral
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1500	30.99	-25.01	56.00	21.01	9.94	0.04	Average	NEUTRAL
2	0.1500	39.68	-26.32	66.00	29.70	9.94	0.04	QP	NEUTRAL
3	0.1668	30.23	-24.89	55.12	20.24	9.95	0.04	Average	NEUTRAL
4	0.1668	38.46	-26.66	65.12	28.47	9.95	0.04	QP	NEUTRAL
5	0.1924	28.79	-25.14	53.93	18.76	9.98	0.05	Average	NEUTRAL
6	0.1924	36.36	-27.57	63.93	26.33	9.98	0.05	QP	NEUTRAL
7	0.5731	34.03	-11.97	46.00	24.01	9.97	0.05	Average	NEUTRAL
8	0.5731	41.56	-14.44	56.00	31.54	9.97	0.05	QP	NEUTRAL
9	2.7794	21.80	-24.20	46.00	11.68	10.02	0.10	Average	NEUTRAL
10	2.7794	29.72	-26.28	56.00	19.60	10.02	0.10	QP	NEUTRAL
11	19.5316	19.29	-30.71	50.00	8.75	10.29	0.25	Average	NEUTRAL
12	19.5316	26.05	-33.95	60.00	15.51	10.29	0.25	QP	NEUTRAL

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2.4-2.4835GHz	702.5k	823.338k	823kF1D	701.25k	820.84k
BT-EDR(2Mbps)	-	-	-	-	-
2.4-2.4835GHz	1.316M	1.212M	1M21G1D	1.316M	1.212M
BT-EDR(3Mbps)	-	-	-	-	-
2.4-2.4835GHz	1.286M	1.212M	1M21G1D	1.285M	1.211M

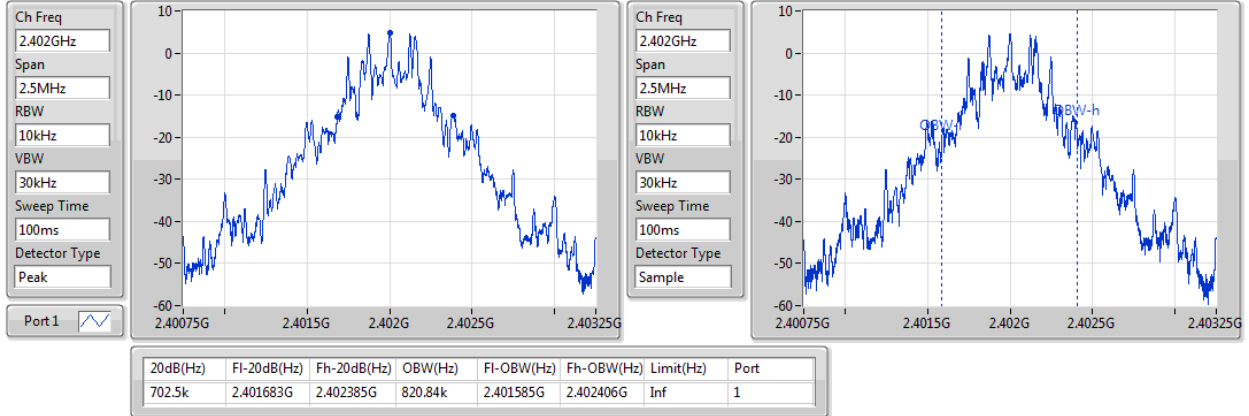
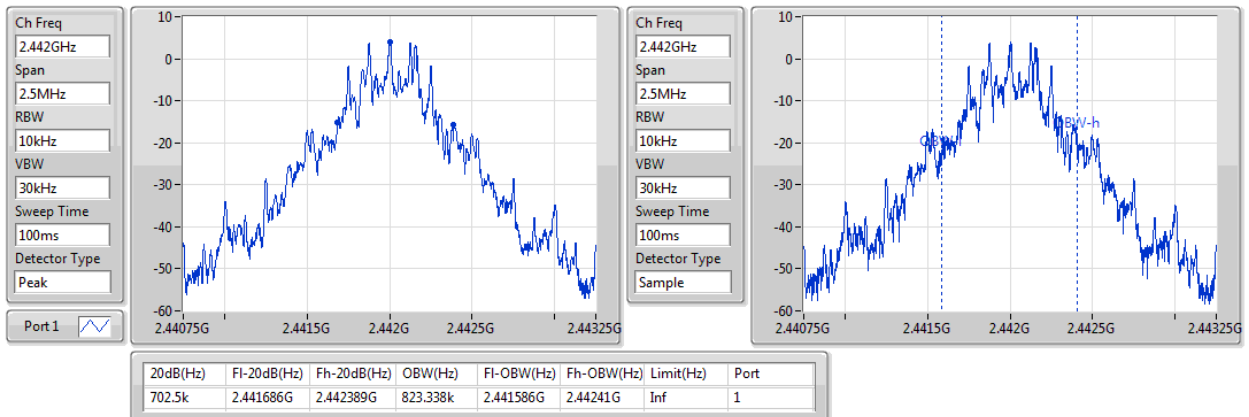
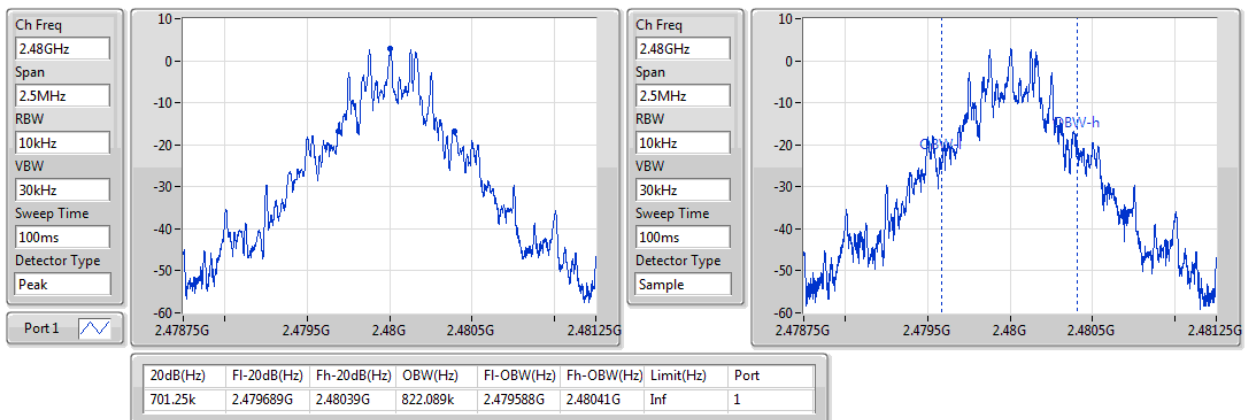
Max-N dB = Maximum 20dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

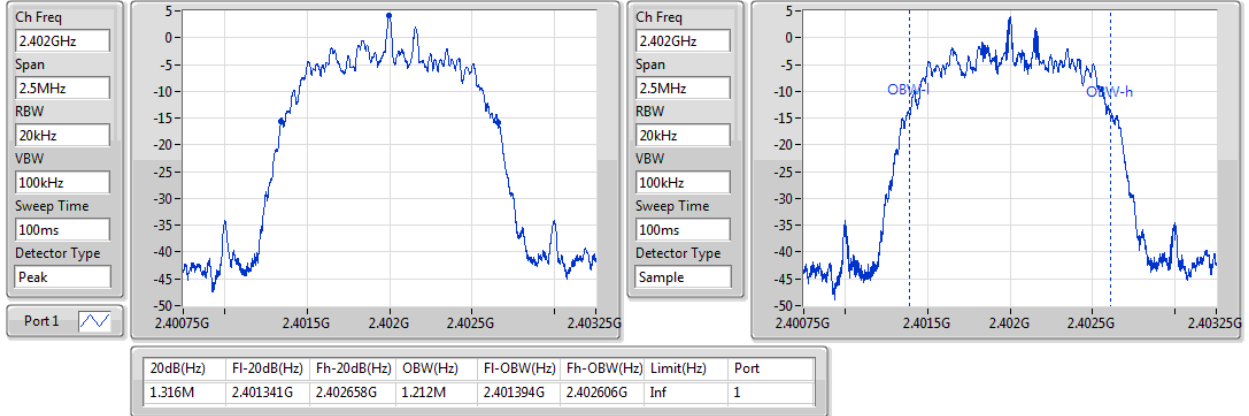
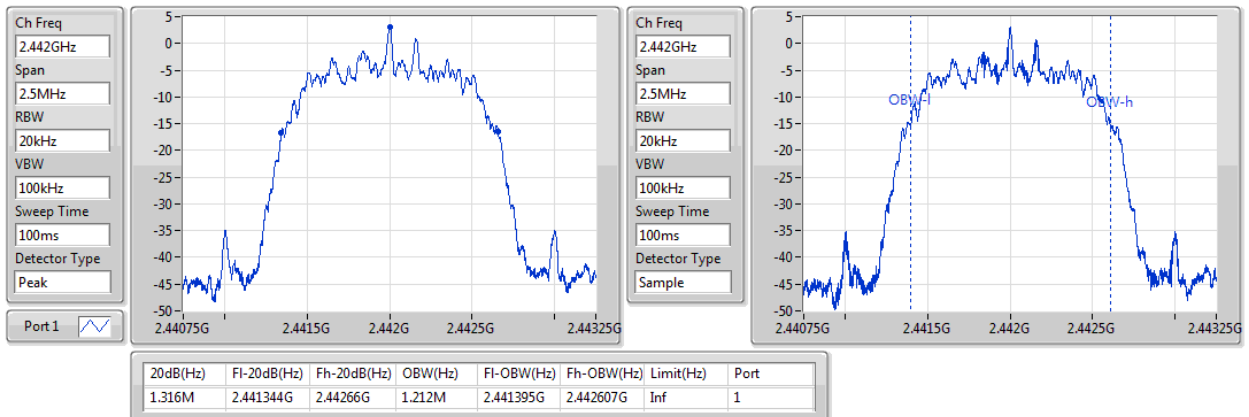
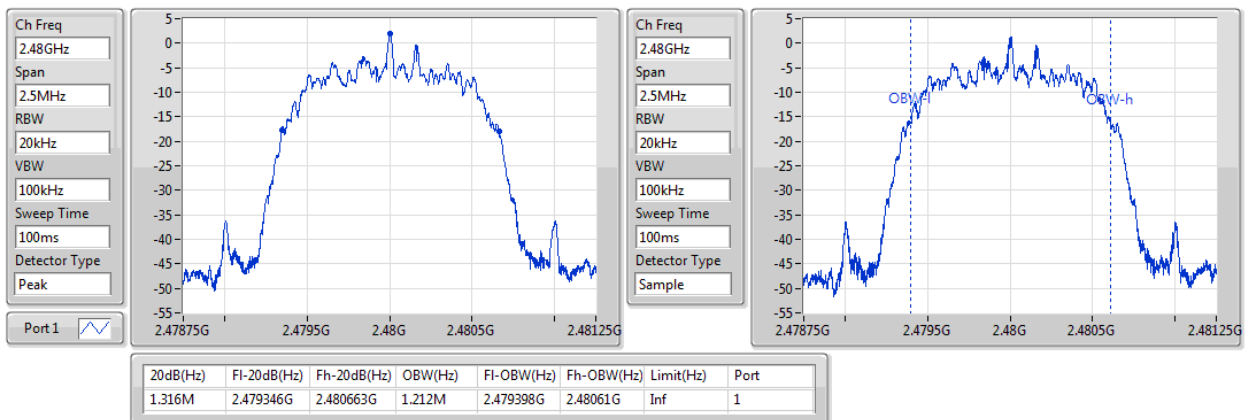
Min-N dB = Minimum 20dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

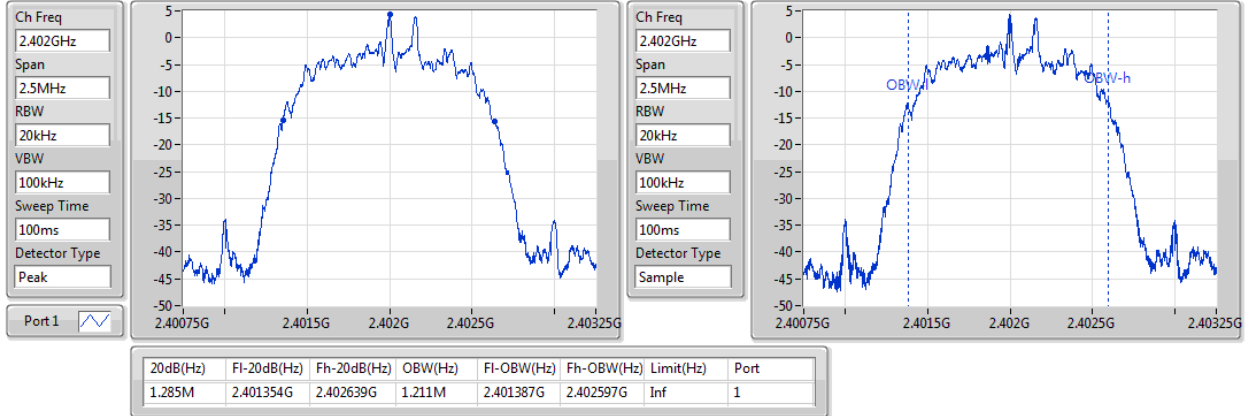
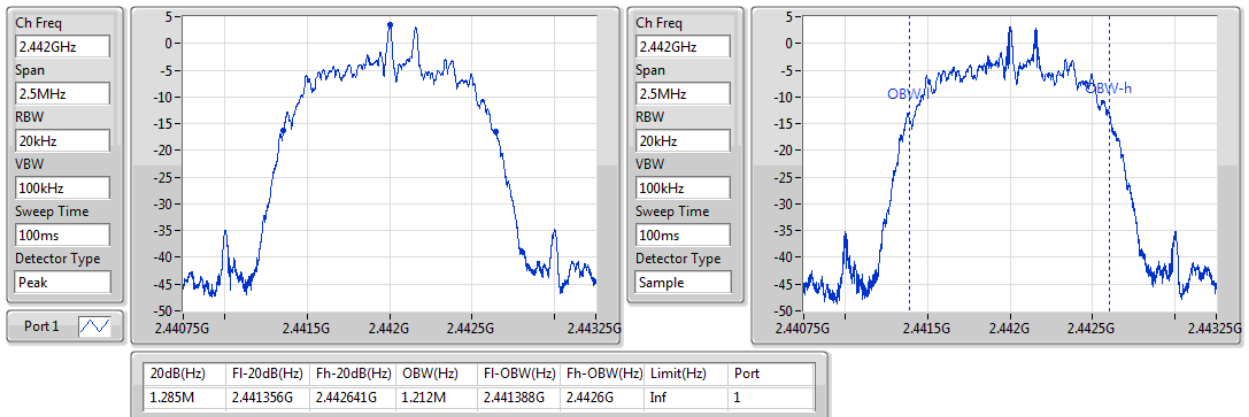
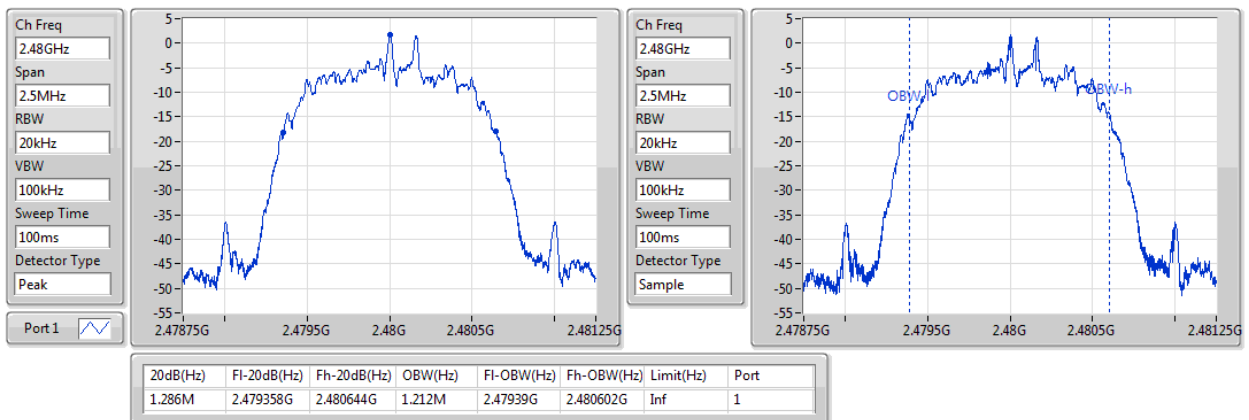
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	702.5k	820.84k
2442MHz	Pass	Inf	702.5k	823.338k
2480MHz	Pass	Inf	701.25k	822.089k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.316M	1.212M
2442MHz	Pass	Inf	1.316M	1.212M
2480MHz	Pass	Inf	1.316M	1.212M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.285M	1.211M
2442MHz	Pass	Inf	1.285M	1.212M
2480MHz	Pass	Inf	1.286M	1.212M

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

BT-BR(1Mbps)
EBW
2402MHz

BT-BR(1Mbps)
EBW
2442MHz

BT-BR(1Mbps)
EBW
2480MHz


BT-EDR(2Mbps)
EBW
2402MHz

BT-EDR(2Mbps)
EBW
2442MHz

BT-EDR(2Mbps)
EBW
2480MHz


BT-EDR(3Mbps)
EBW
2402MHz

BT-EDR(3Mbps)
EBW
2442MHz

BT-EDR(3Mbps)
EBW
2480MHz


Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
BT-BR(1Mbps)	-	-
2.4-2.4835GHz	1.0005M	999k
BT-EDR(2Mbps)	-	-
2.4-2.4835GHz	1.0005M	997.5k
BT-EDR(3Mbps)	-	-
2.4-2.4835GHz	1.0035M	999k

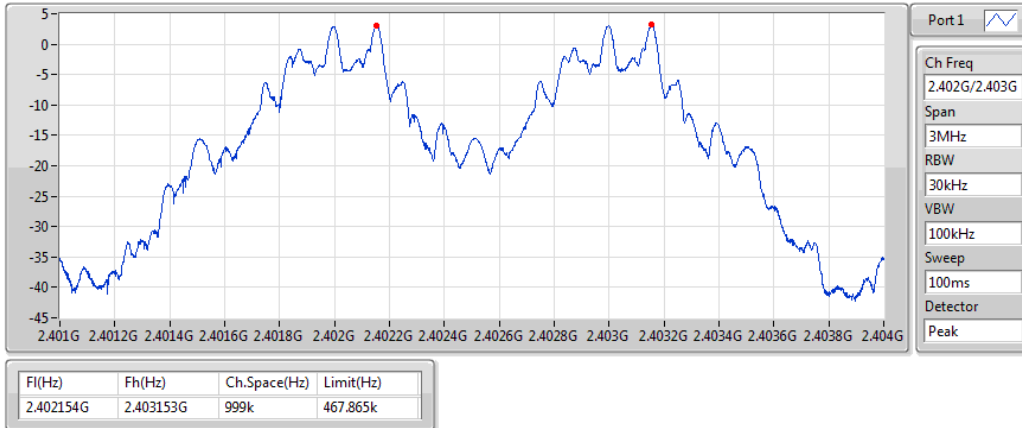
Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402154G	2.403153G	999k	467.865k
2442MHz	Pass	2.442157G	2.443156G	999k	467.865k
2480MHz	Pass	2.479158G	2.480159G	1.0005M	467.0325k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.401998G	2.402997G	999k	876.456k
2442MHz	Pass	2.442001G	2.443001G	1.0005M	876.456k
2480MHz	Pass	2.479004G	2.480001G	997.5k	876.456k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402157G	2.403156G	999k	855.81k
2442MHz	Pass	2.442158G	2.443162G	1.0035M	855.81k
2480MHz	Pass	2.479161G	2.48016G	999k	856.476k

BT-BR(1Mbps)

Channel Separation

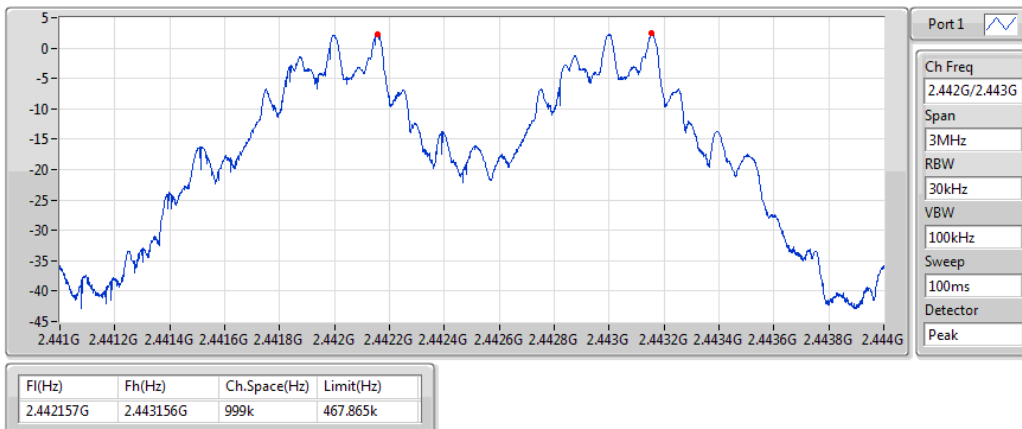
2.402G/2.403GHz



BT-BR(1Mbps)

Channel Separation

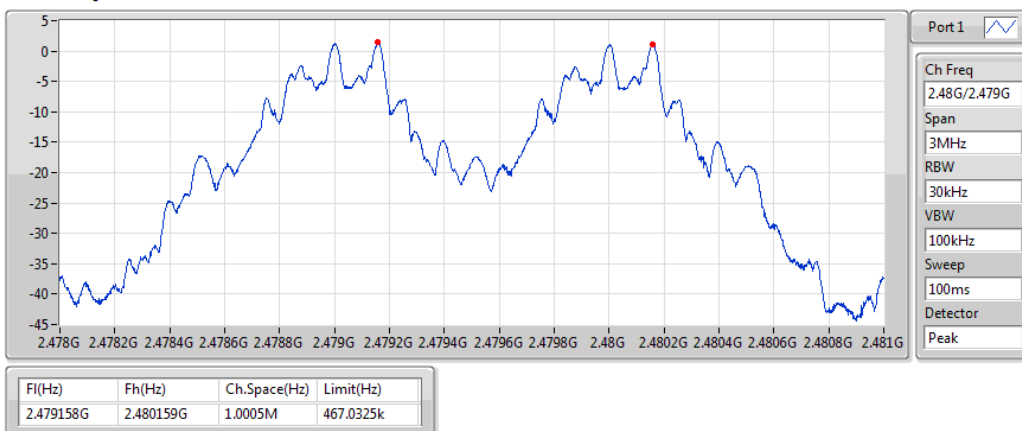
2.442G/2.443GHz



BT-BR(1Mbps)

Channel Separation

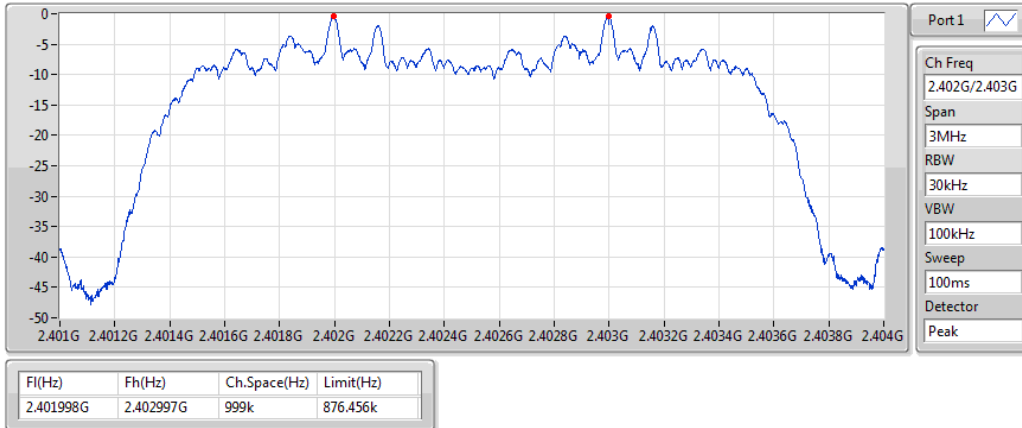
2.48G/2.479GHz



BT-EDR(2Mbps)

Channel Separation

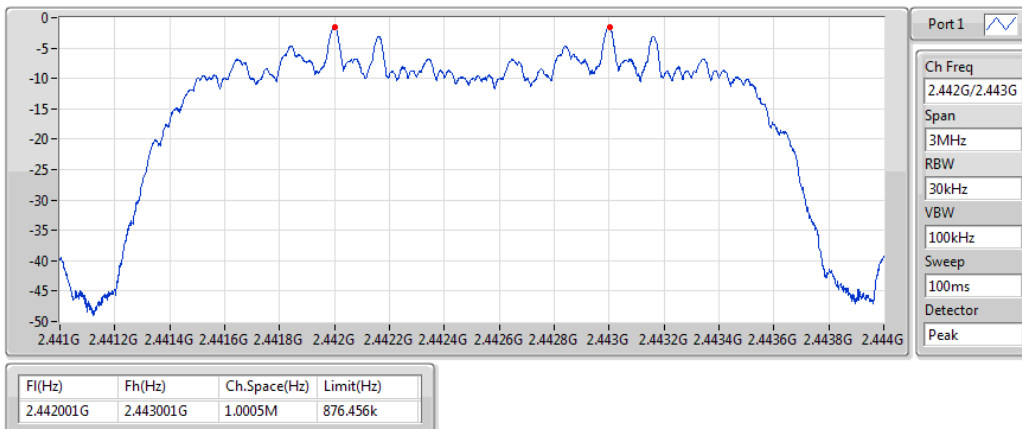
2.402G/2.403GHz



BT-EDR(2Mbps)

Channel Separation

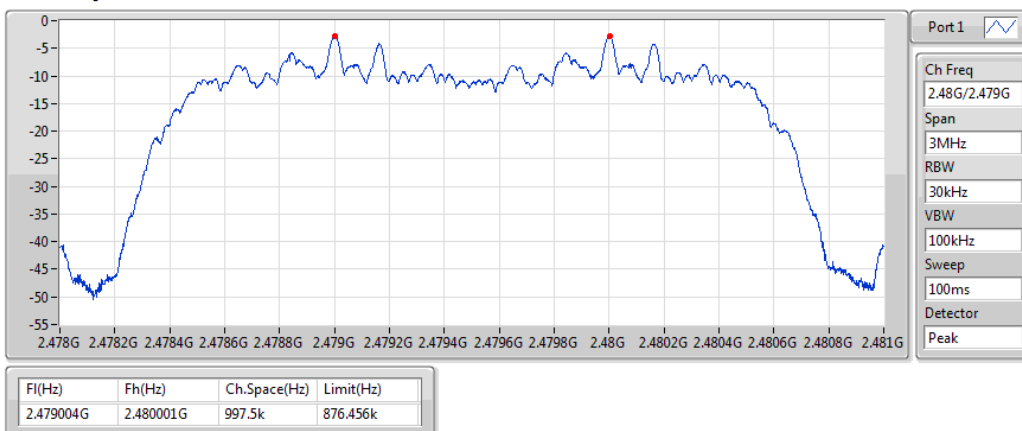
2.442G/2.443GHz



BT-EDR(2Mbps)

Channel Separation

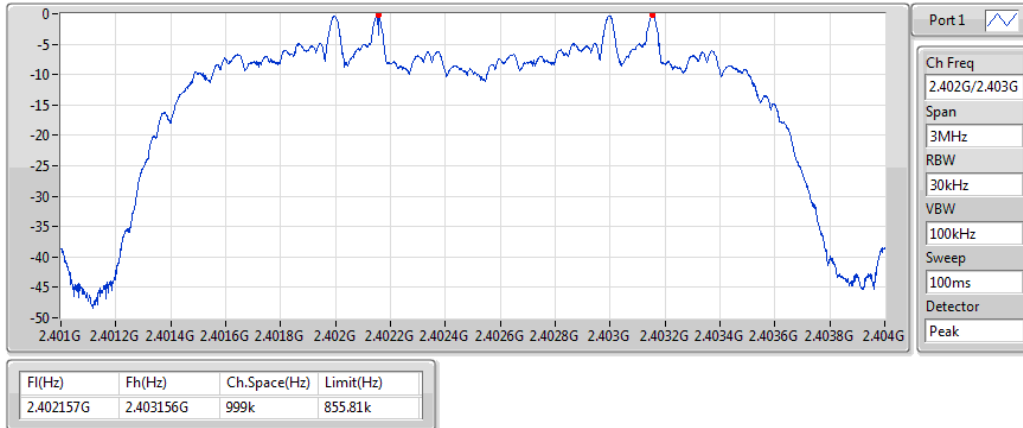
2.48G/2.479GHz



BT-EDR(3Mbps)

Channel Separation

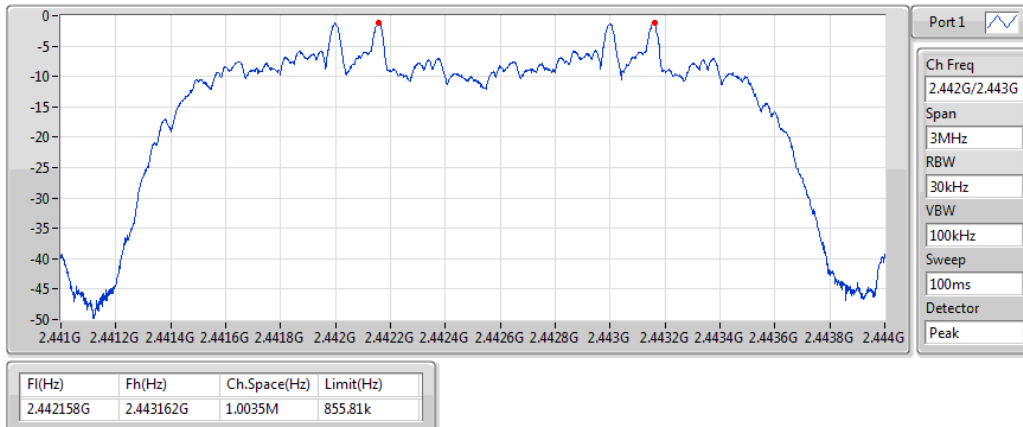
2.402G/2.403GHz



BT-EDR(3Mbps)

Channel Separation

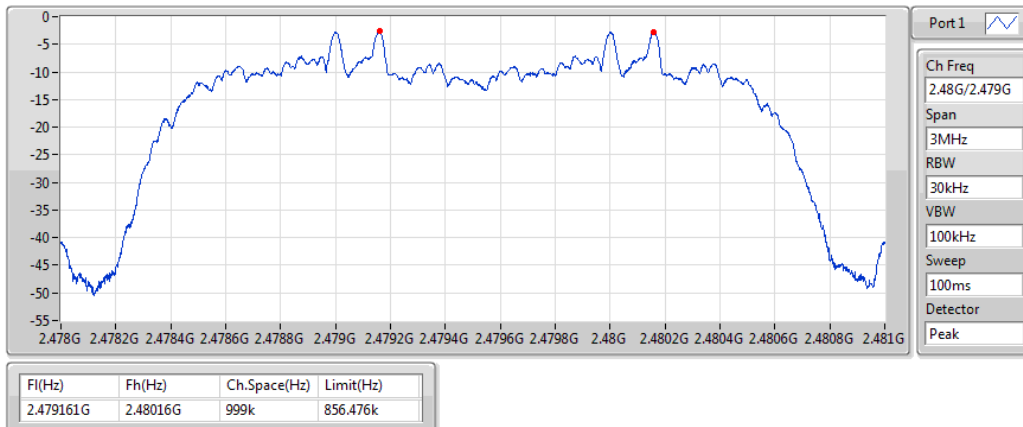
2.442G/2.443GHz



BT-EDR(3Mbps)

Channel Separation

2.48G/2.479GHz



Summary

Mode	Power	Power
	(dBm)	(W)
BT-BR(1Mbps)	-	-
2.4-2.4835GHz	9.54	0.00899
BT-EDR(2Mbps)	-	-
2.4-2.4835GHz	6.29	0.00426
BT-EDR(3Mbps)	-	-
2.4-2.4835GHz	6.40	0.00437

Result

Mode	Result	Gain	Power	Power Limit
		(dBi)	(dBm)	(dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.70	9.54	21.00
2442MHz	Pass	3.70	8.82	21.00
2480MHz	Pass	3.70	7.69	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.70	6.29	21.00
2442MHz	Pass	3.70	5.19	21.00
2480MHz	Pass	3.70	4.05	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.70	6.40	21.00
2442MHz	Pass	3.70	5.45	21.00
2480MHz	Pass	3.70	3.90	21.00

Summary

Mode	Power (dBm)	Power (W)
BT-BR(1Mbps)	-	-
2.4-2.4835GHz	9.78	0.00951
BT-EDR(2Mbps)	-	-
2.4-2.4835GHz	8.68	0.00738
BT-EDR(3Mbps)	-	-
2.4-2.4835GHz	9.23	0.00838

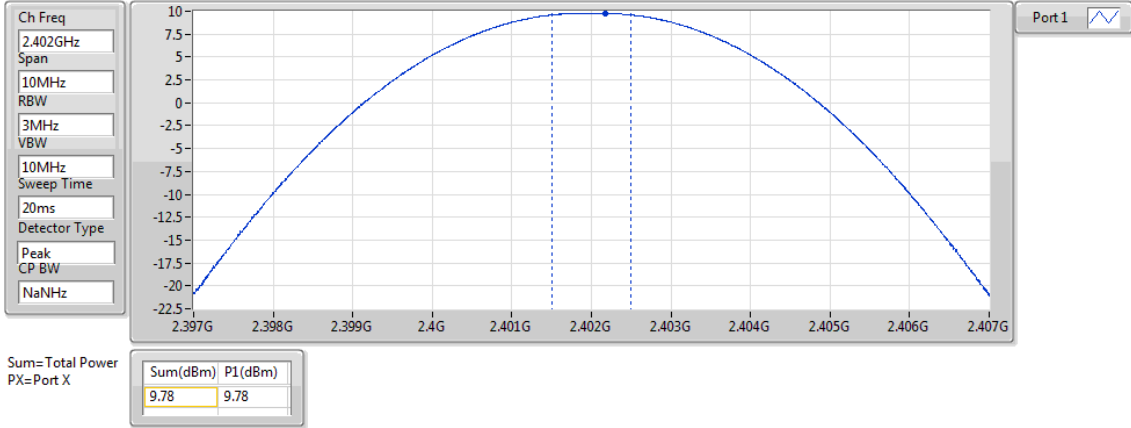
Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.70	9.78	21.00
2442MHz	Pass	3.70	9.04	21.00
2480MHz	Pass	3.70	7.90	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.70	8.68	21.00
2442MHz	Pass	3.70	7.70	21.00
2480MHz	Pass	3.70	6.56	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.70	9.23	21.00
2442MHz	Pass	3.70	8.34	21.00
2480MHz	Pass	3.70	6.90	21.00

BT-BR(1Mbps)

PK Power

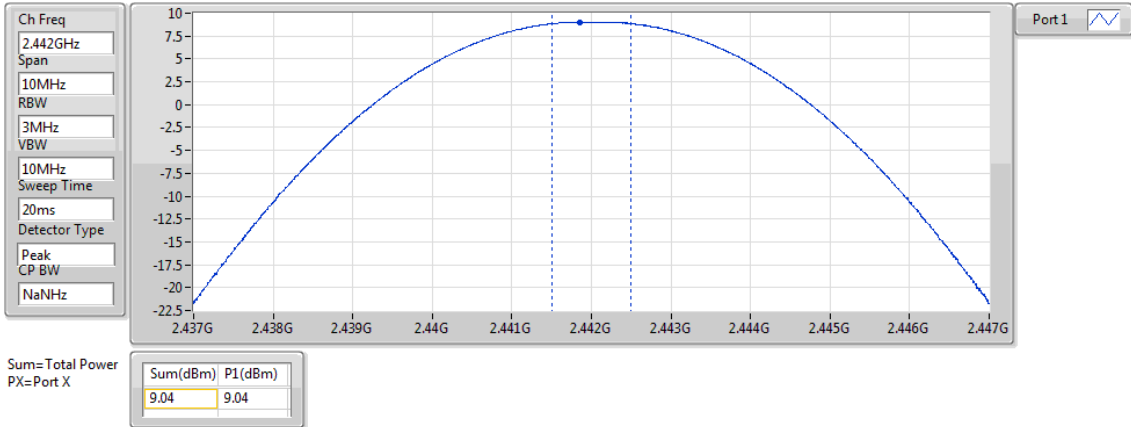
2402MHz



BT-BR(1Mbps)

PK Power

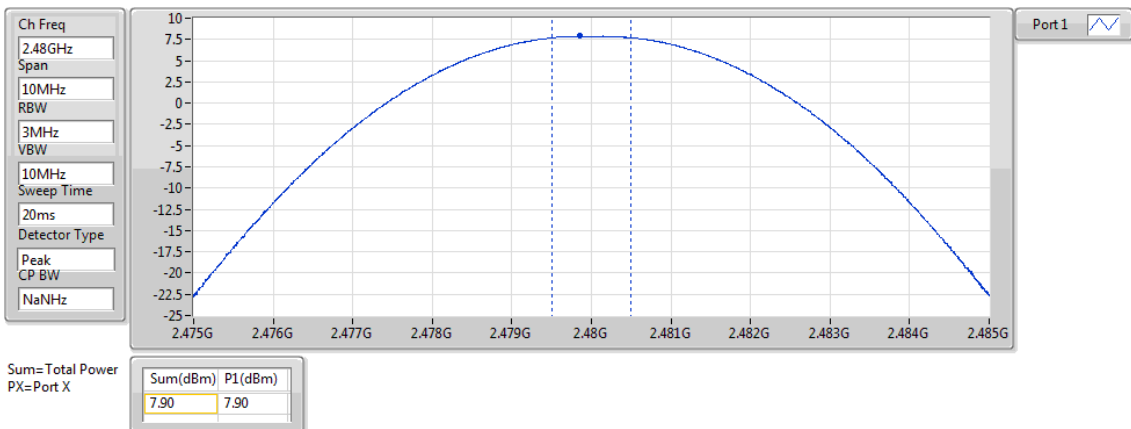
2442MHz



BT-BR(1Mbps)

PK Power

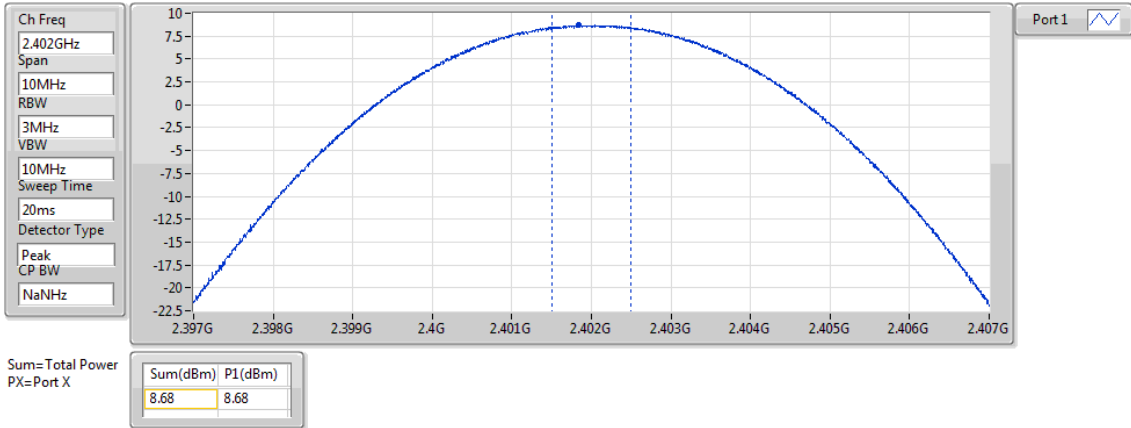
2480MHz



BT-EDR(2Mbps)

PK Power

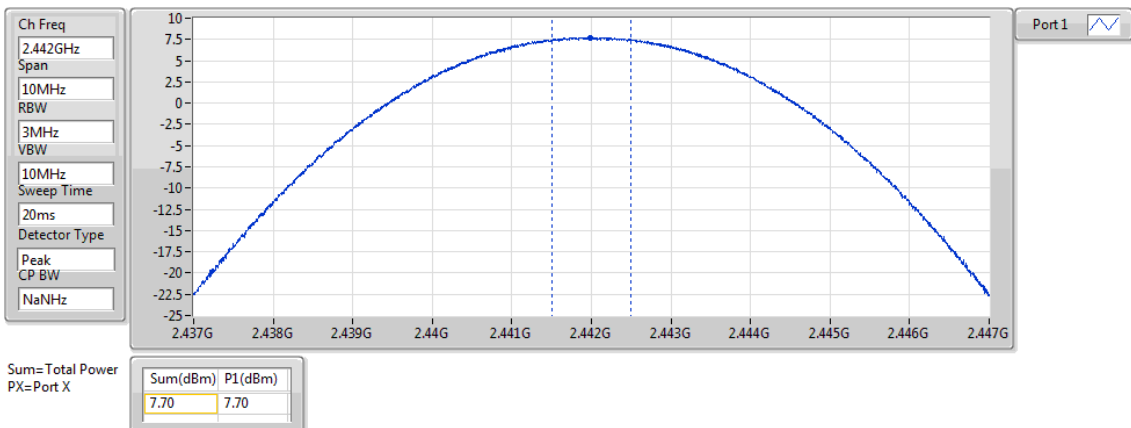
2402MHz



BT-EDR(2Mbps)

PK Power

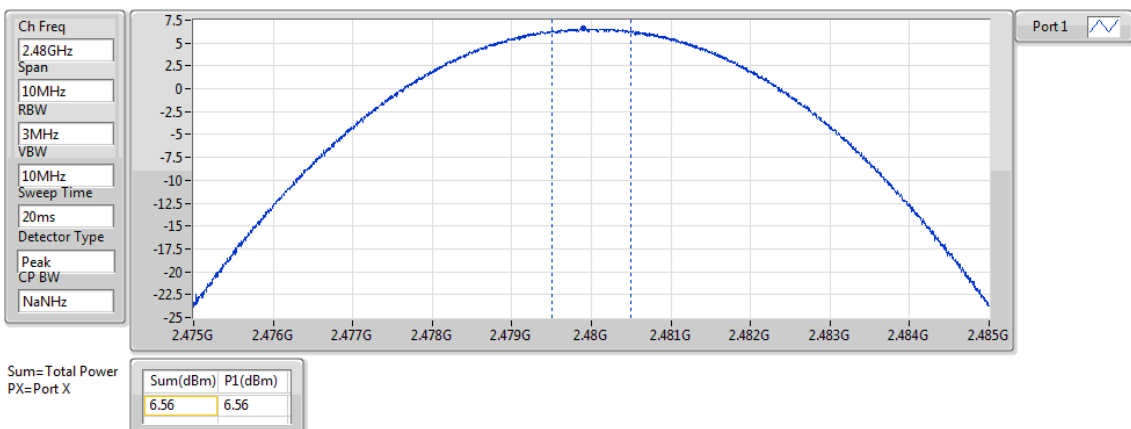
2442MHz



BT-EDR(2Mbps)

PK Power

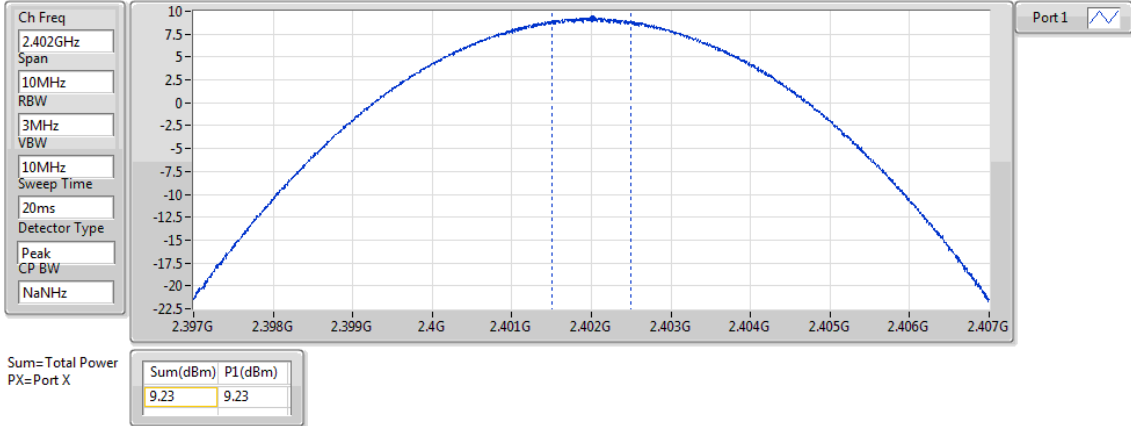
2480MHz



BT-EDR(3Mbps)

PK Power

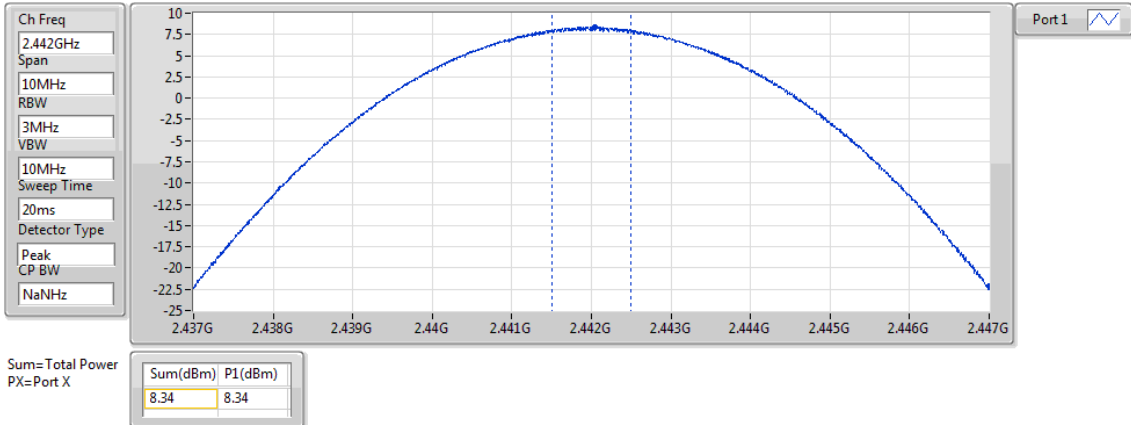
2402MHz



BT-EDR(3Mbps)

PK Power

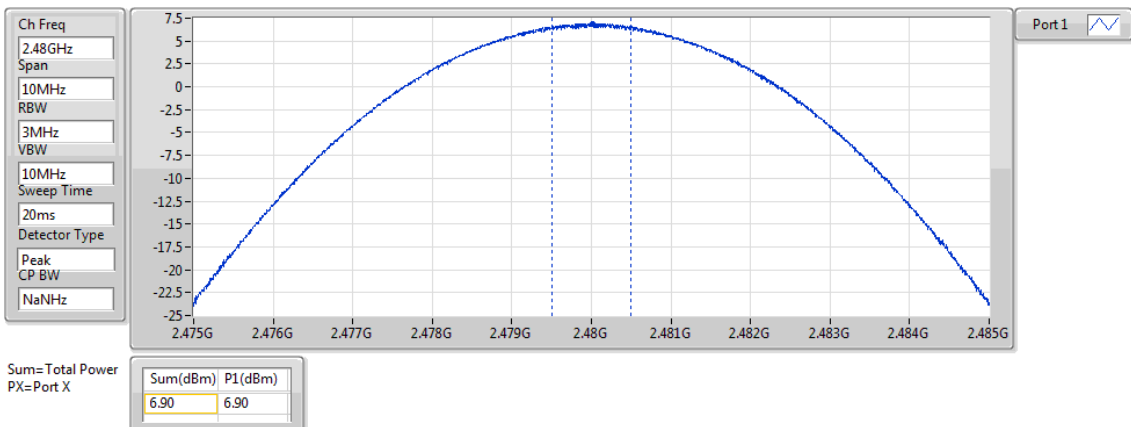
2442MHz



BT-EDR(3Mbps)

PK Power

2480MHz



Summary

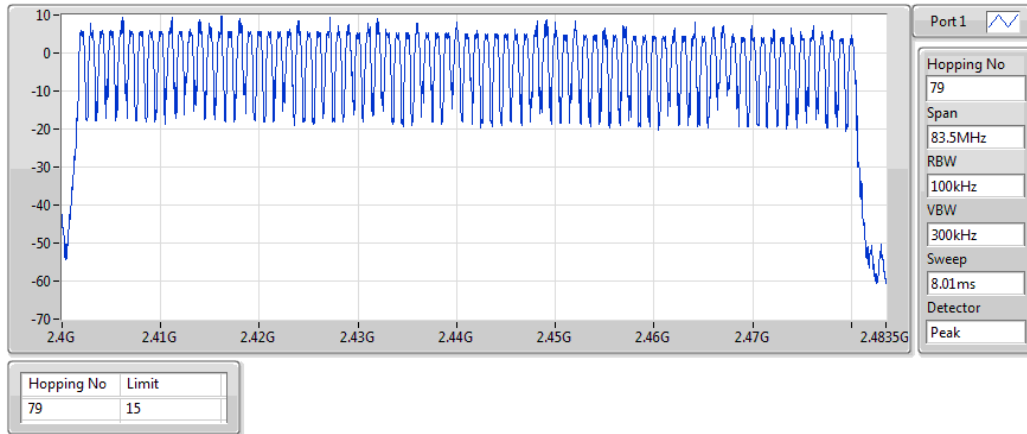
Mode	Max-Hop No
BT-BR(1Mbps)	-
2.4-2.4835GHz	79
BT-EDR(2Mbps)	-
2.4-2.4835GHz	79
BT-EDR(3Mbps)	-
2.4-2.4835GHz	79

Result

Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2442MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2442MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2442MHz	Pass	79	15

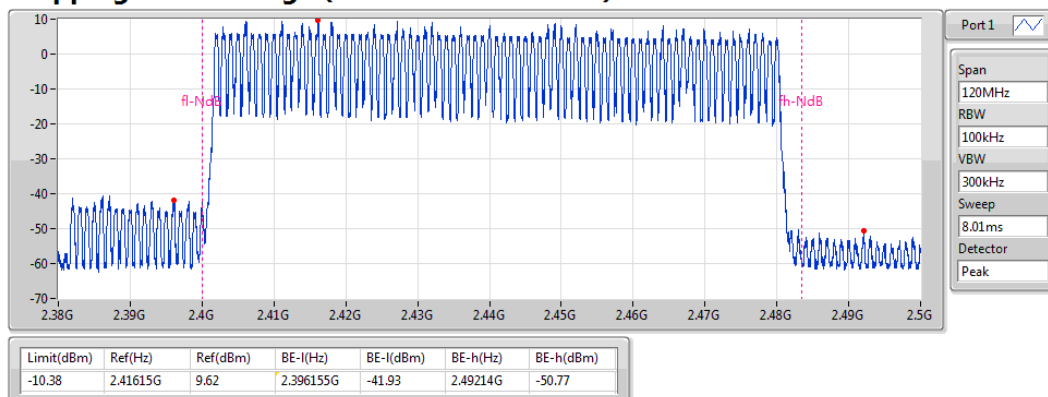
BT-BR(1Mbps) 2442MHz

Hopping Ch



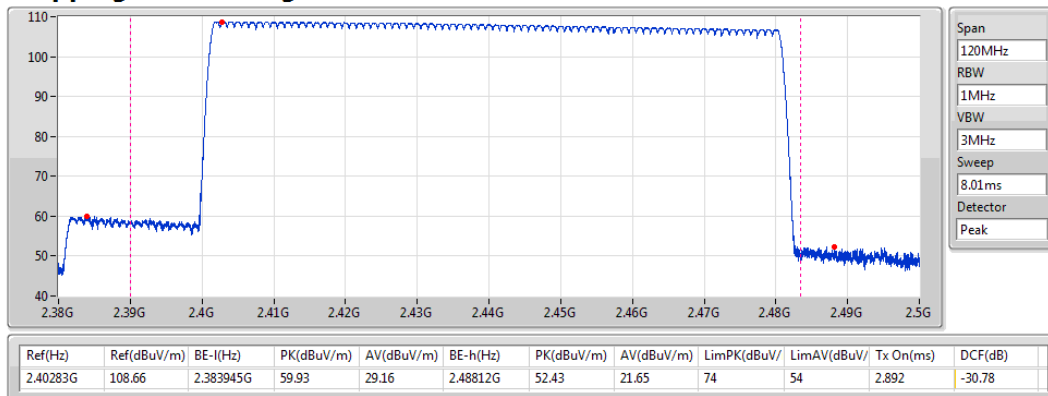
BT-BR(1Mbps) 2442MHz

Hopping Ch Bandedge (Non-restricted Band)



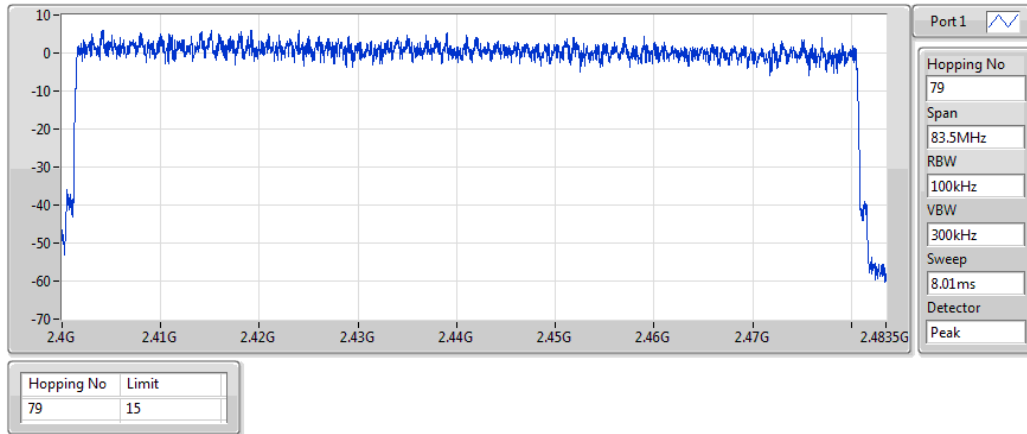
BT-BR(1Mbps) 2442MHz

Hopping Ch Bandedge (Restricted Band)



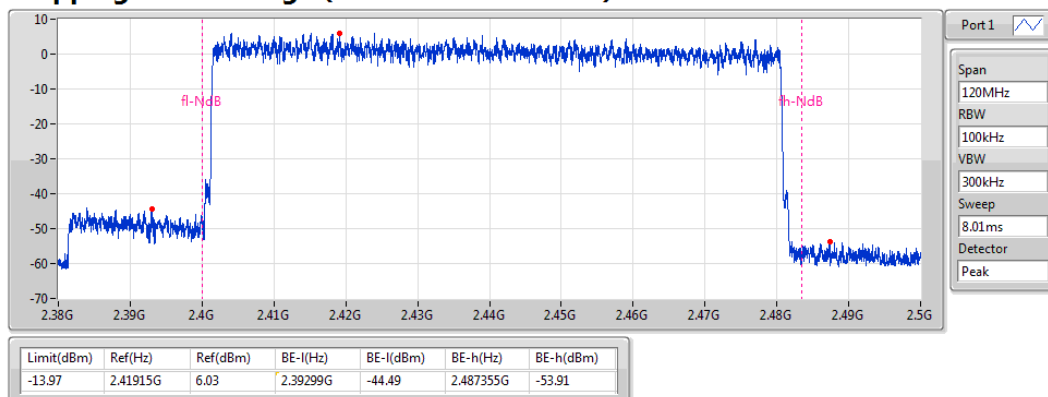
BT-EDR(2Mbps) 2442MHz

Hopping Ch



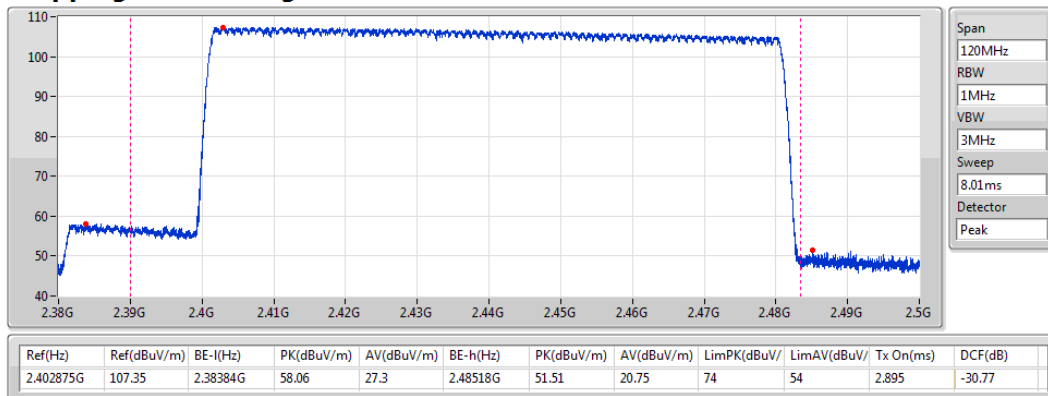
BT-EDR(2Mbps) 2442MHz

Hopping Ch Bandedge (Non-restricted Band)



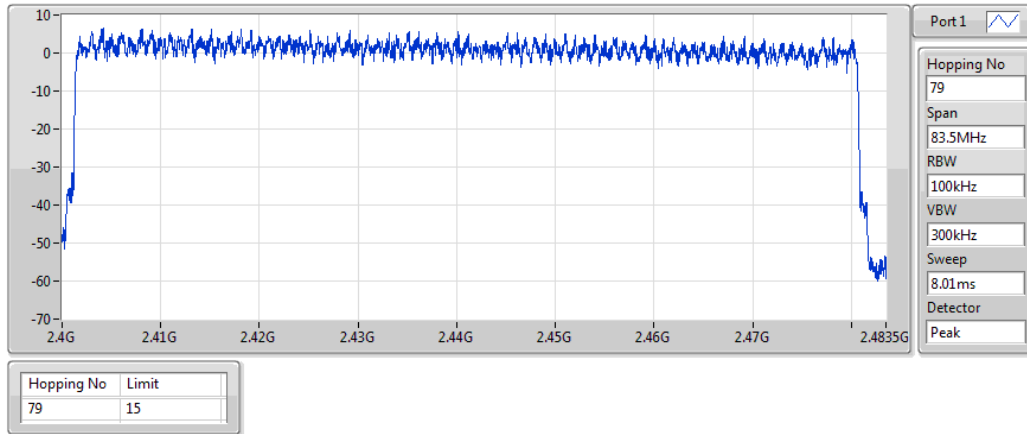
BT-EDR(2Mbps) 2442MHz

Hopping Ch Bandedge (Restricted Band)



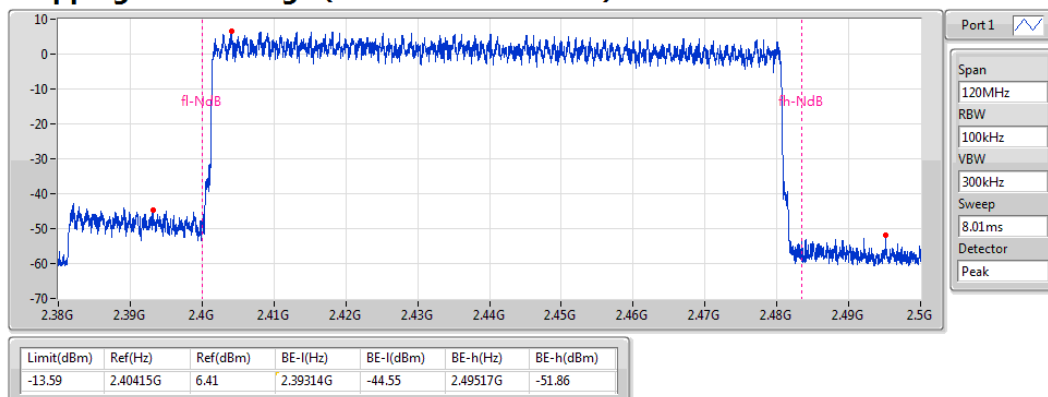
BT-EDR(3Mbps) 2442MHz

Hopping Ch



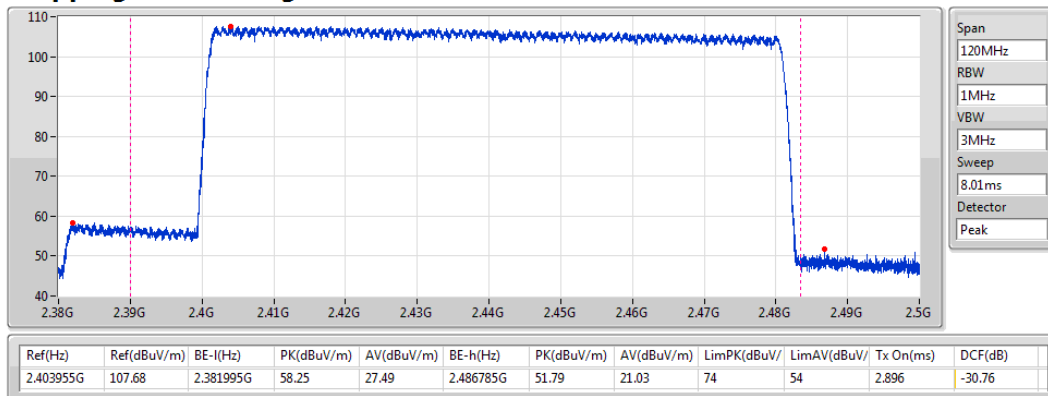
BT-EDR(3Mbps) 2442MHz

Hopping Ch Bandedge (Non-restricted Band)



BT-EDR(3Mbps) 2442MHz

Hopping Ch Bandedge (Restricted Band)



Summary

Mode	Max-Dwell (s)
BT-BR(1Mbps)	-
2.4-2.4835GHz	308.2872m
BT-EDR(2Mbps)	-
2.4-2.4835GHz	308.607m
BT-EDR(3Mbps)	-
2.4-2.4835GHz	308.7136m

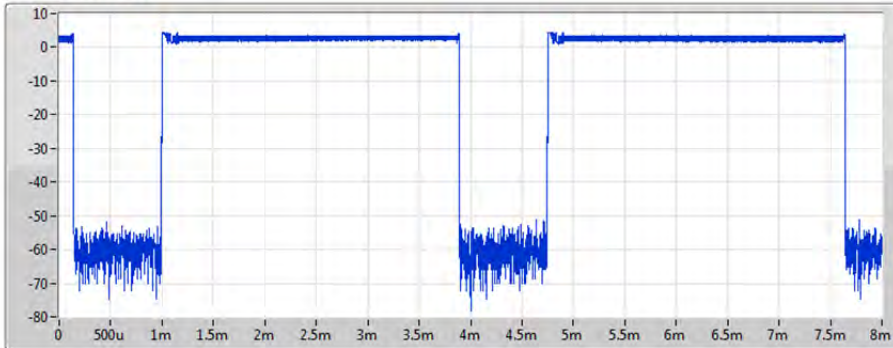
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	31.6	308.2872m	400m	2.892m
2442MHz	Pass	0	308.2872m	400m	2.892m
2480MHz	Pass	31.6	308.2872m	400m	2.892m
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	31.6	308.607m	400m	2.895m
2442MHz	Pass	0	308.607m	400m	2.895m
2480MHz	Pass	31.6	308.607m	400m	2.895m
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	31.6	308.7136m	400m	2.896m
2442MHz	Pass	0	308.7136m	400m	2.896m
2480MHz	Pass	31.6	308.7136m	400m	2.896m

BT-BR(1Mbps)

Dwell

2402MHz



Port 1 

Ch Freq
2.402GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

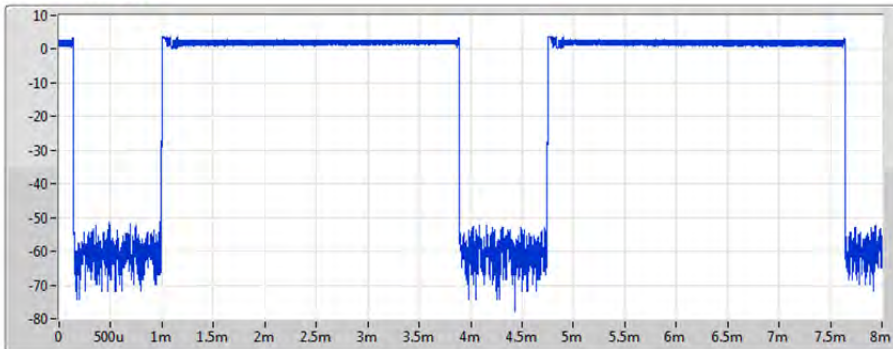
TX Time
2.892ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.2872m	400m	2.892m

BT-BR(1Mbps)

Dwell

2442MHz



Port 1 

Ch Freq
2.442GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

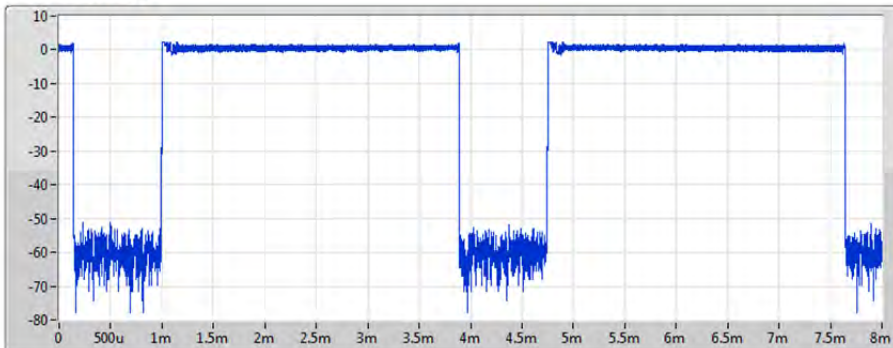
TX Time
2.892ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.2872m	400m	2.892m

BT-BR(1Mbps)

Dwell

2480MHz



Port 1 

Ch Freq
2.48GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

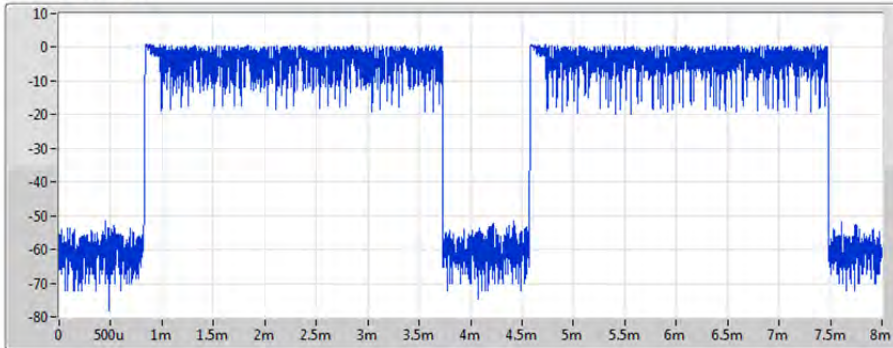
TX Time
2.892ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.2872m	400m	2.892m

BT-EDR(2Mbps)

Dwell

2402MHz



Port 1 

Ch Freq
2.402GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

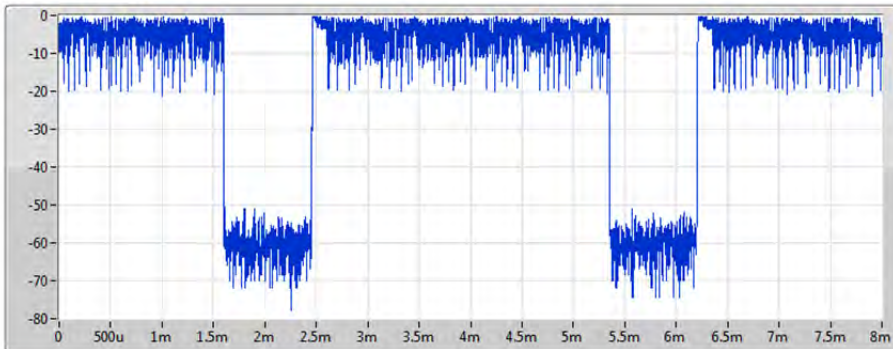
TX Time
2.895ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.607m	400m	2.895m

BT-EDR(2Mbps)

Dwell

2442MHz



Port 1 

Ch Freq
2.442GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

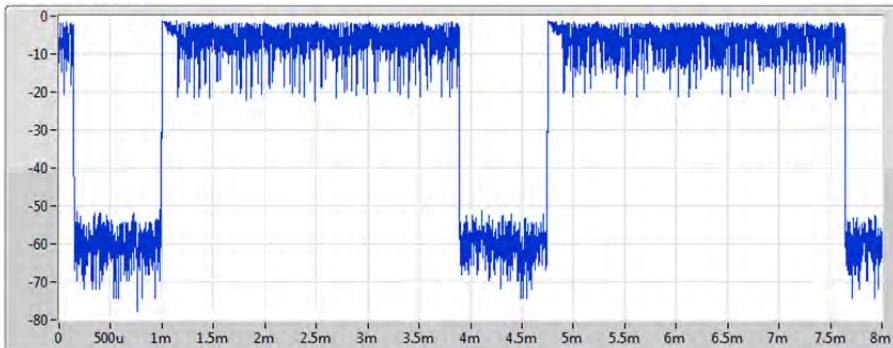
TX Time
2.895ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.607m	400m	2.895m

BT-EDR(2Mbps)

Dwell

2480MHz



Port 1 

Ch Freq
2.48GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

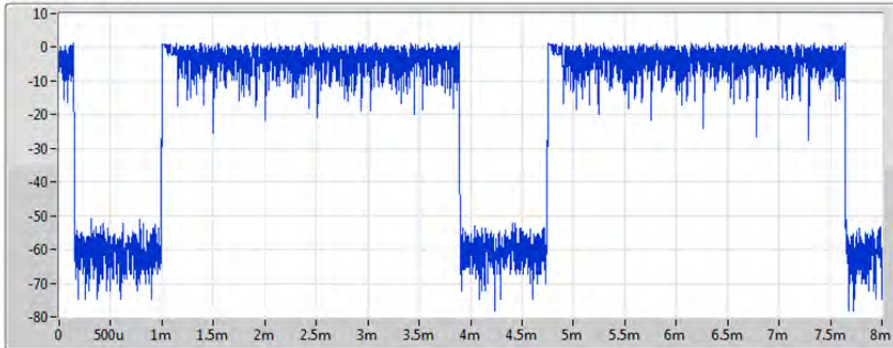
TX Time
2.895ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.607m	400m	2.895m

BT-EDR(3Mbps)

Dwell

2402MHz



Port 1 

Ch Freq
2.402GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

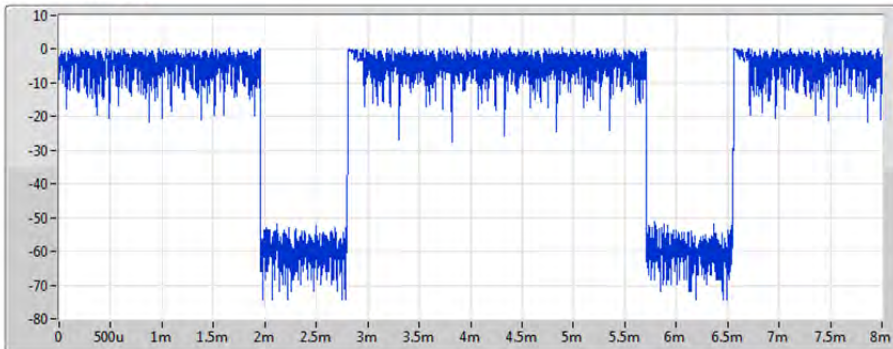
TX Time
2.896ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.7136m	400m	2.896m

BT-EDR(3Mbps)

Dwell

2442MHz



Port 1 

Ch Freq
2.442GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

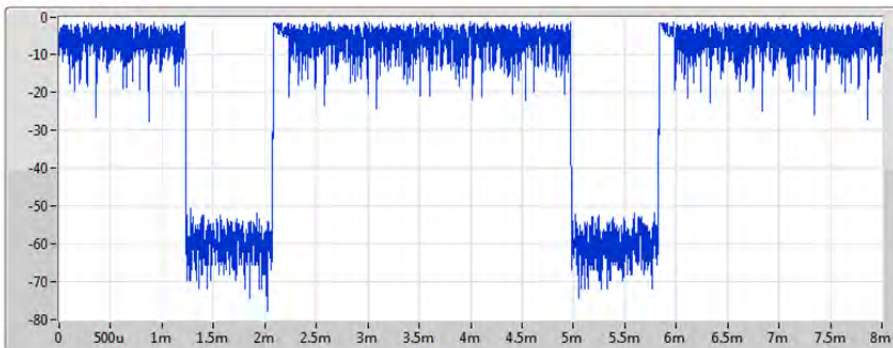
TX Time
2.896ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.7136m	400m	2.896m

BT-EDR(3Mbps)

Dwell

2480MHz



Port 1 

Ch Freq
2.48GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.896ms

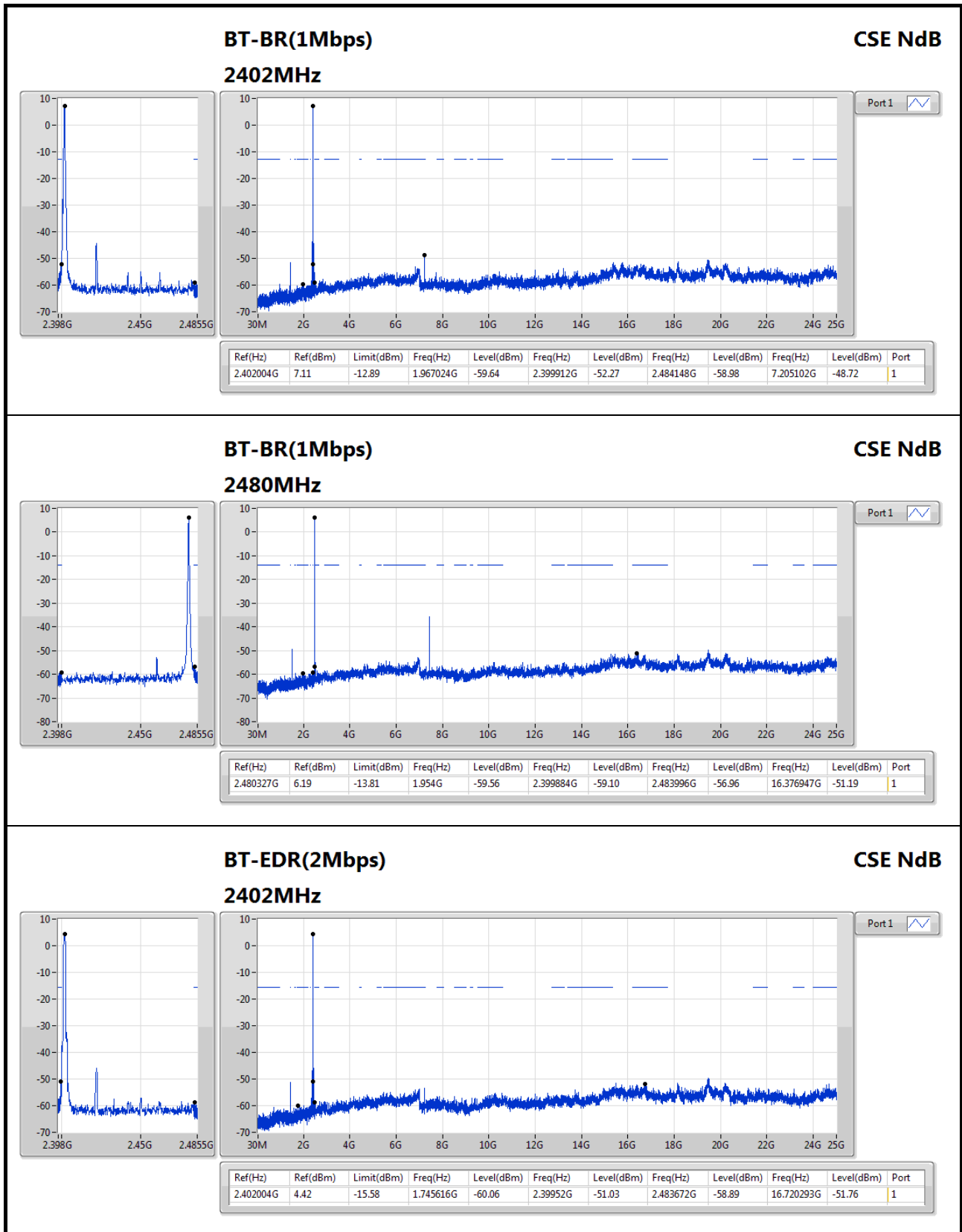
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.7136m	400m	2.896m

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
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.479826G	2.69	-17.31	2.067664G	-58.85	2.399668G	-59.02	2.484132G	-57.82	16.683707G	-50.97	1

Result

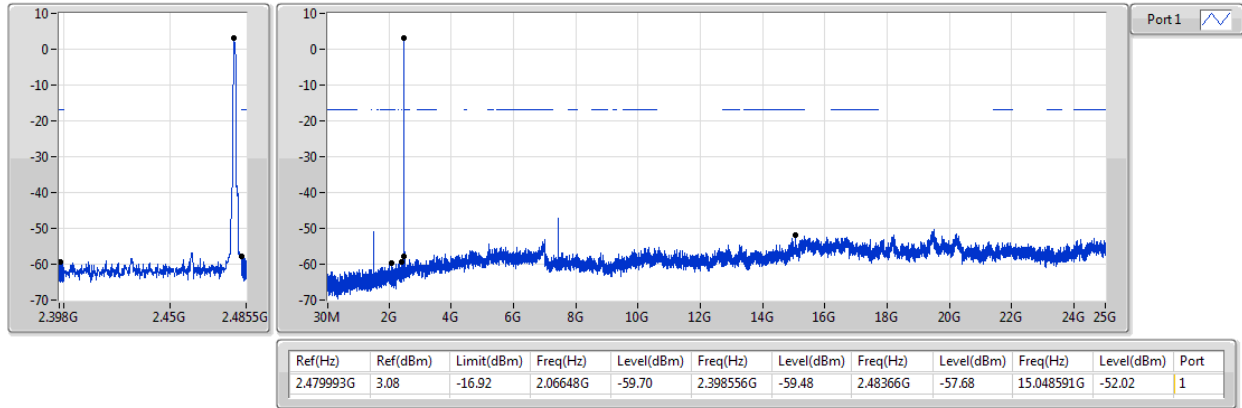
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402004G	7.11	-12.89	1.967024G	-59.64	2.399912G	-52.27	2.484148G	-58.98	7.205102G	-48.72	1
2480MHz	Pass	2.480327G	6.19	-13.81	1.954G	-59.56	2.399884G	-59.10	2.483996G	-56.96	16.376947G	-51.19	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402004G	4.42	-15.58	1.745616G	-60.06	2.39952G	-51.03	2.483672G	-58.89	16.720293G	-51.76	1
2480MHz	Pass	2.479993G	3.08	-16.92	2.06648G	-59.70	2.398556G	-59.48	2.48366G	-57.68	15.048591G	-52.02	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40167G	4.36	-15.64	2.002544G	-58.38	2.399616G	-50.76	2.484312G	-59.77	7.205102G	-50.70	1
2480MHz	Pass	2.479826G	2.69	-17.31	2.067664G	-58.85	2.399668G	-59.02	2.484132G	-57.82	16.683707G	-50.97	1



BT-EDR(2Mbps)

CSE NdB

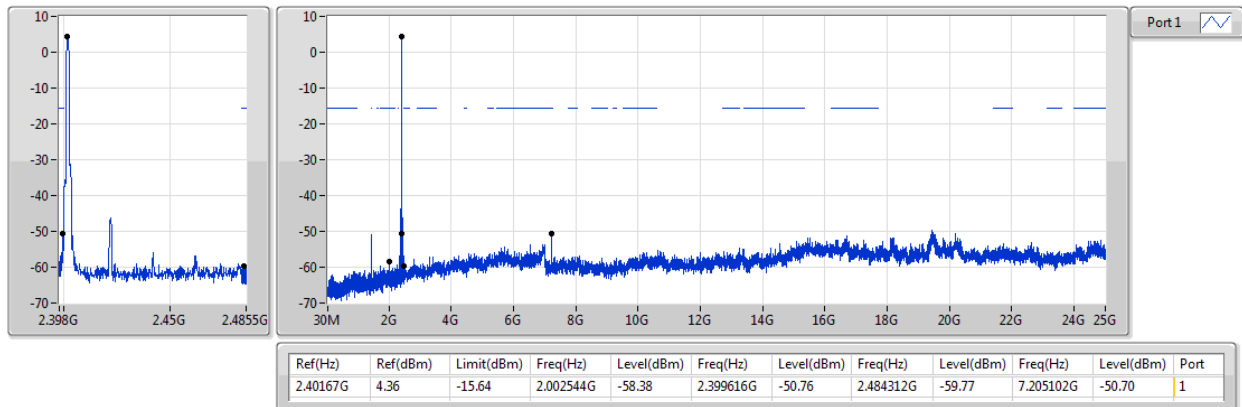
2480MHz



BT-EDR(3Mbps)

CSE NdB

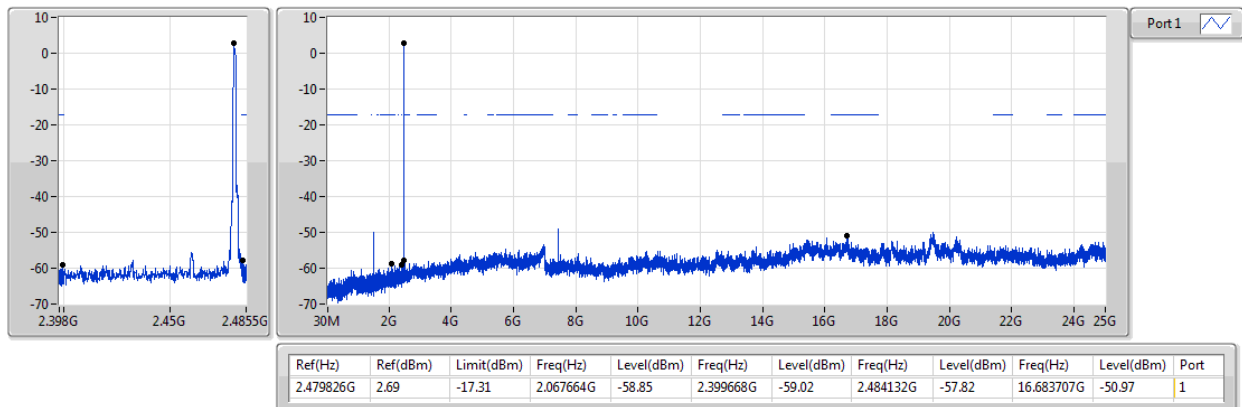
2402MHz

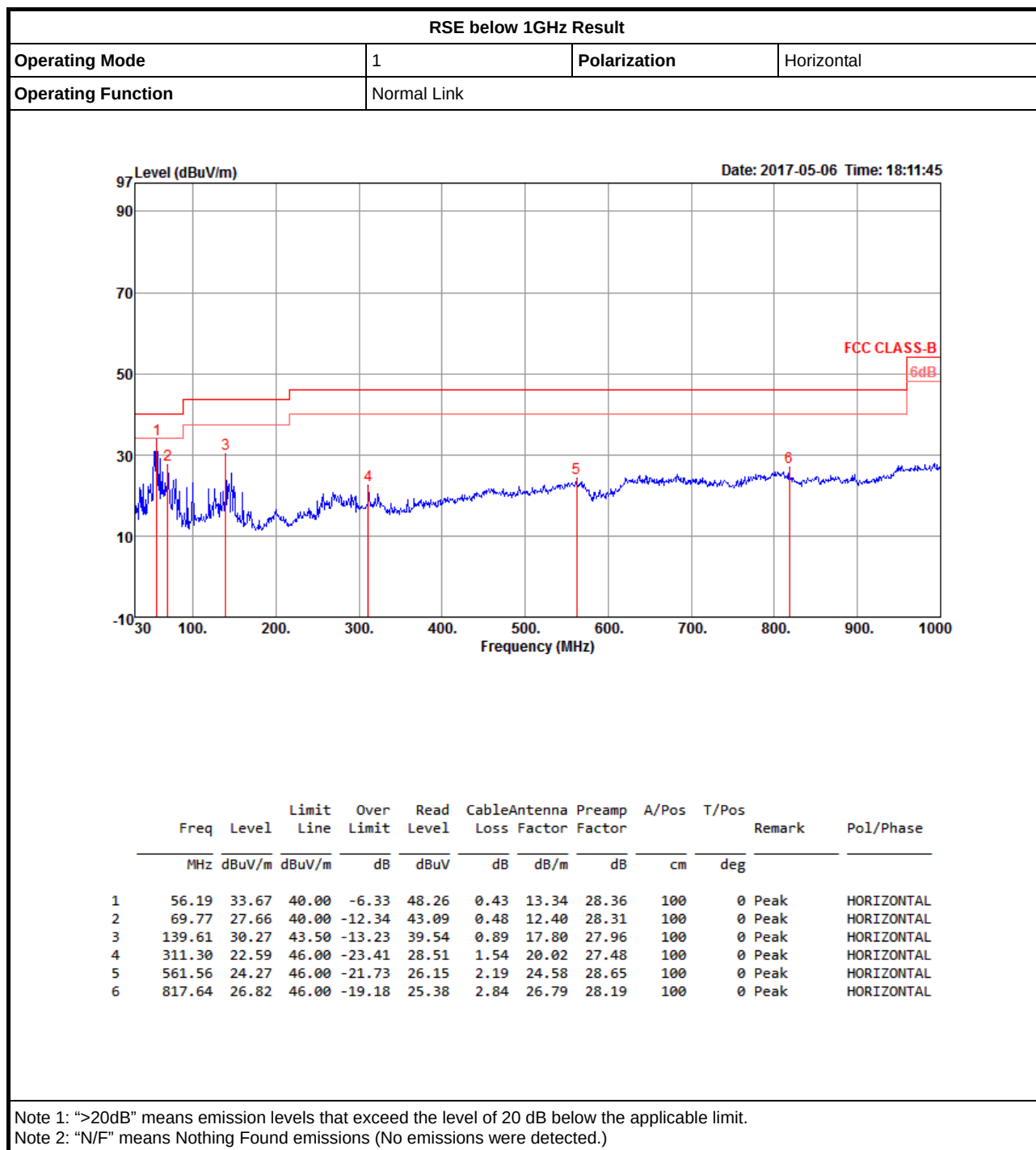


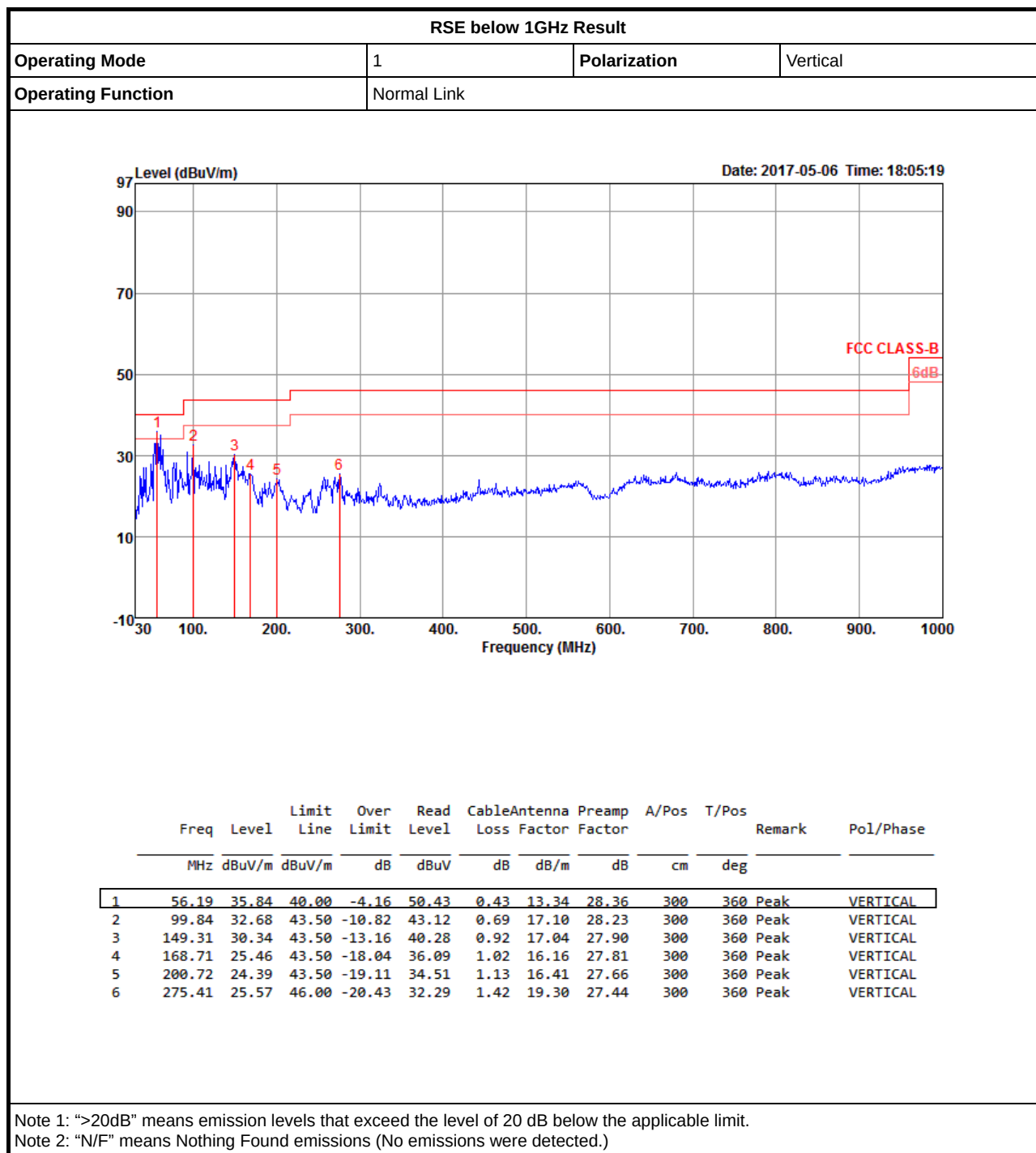
BT-EDR(3Mbps)

CSE NdB

2480MHz









RSE TX above 1GHz Result

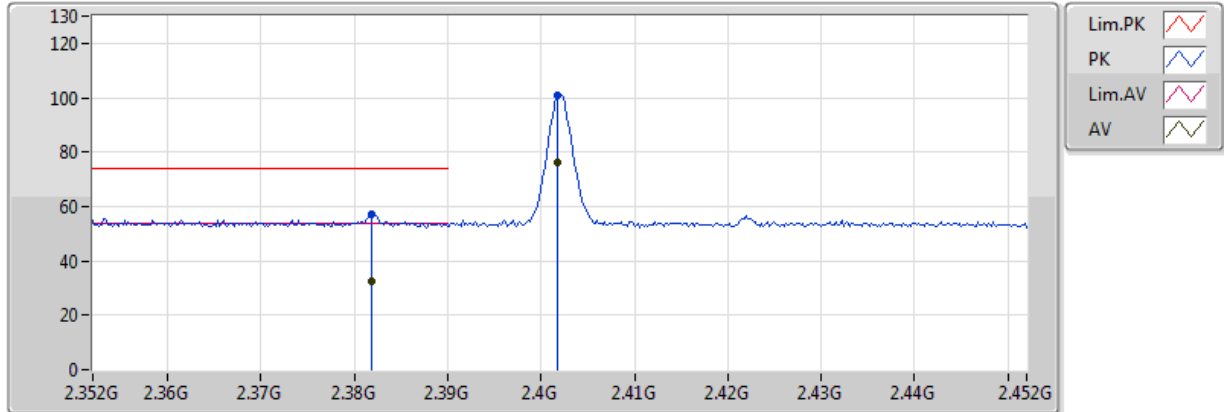
Appendix G.2

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	PK	2.382G	61.84	74.00	-12.16	31.05	3	H	0	1.00	-

BT-BR(1Mbps)

2402MHz_TX

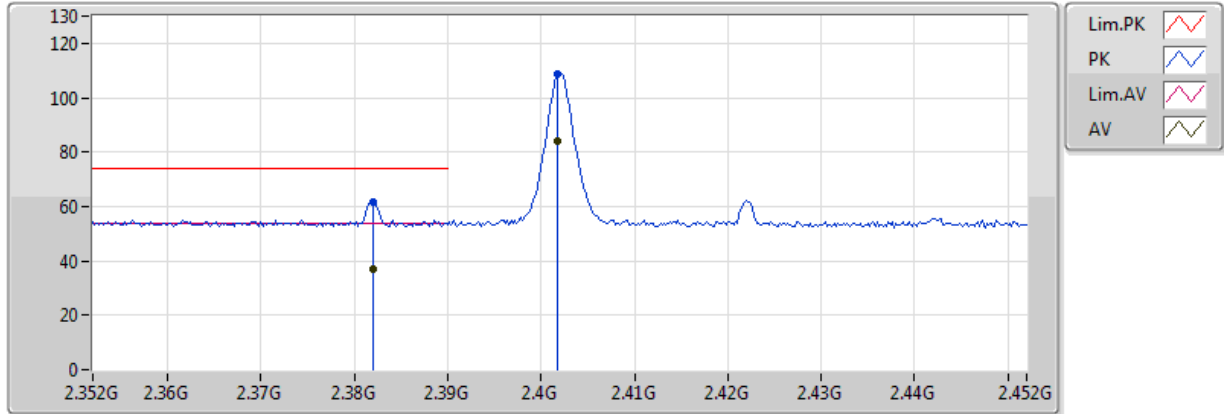


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3818G	32.60	54.00	-21.40	31.05	3	V	302	1.59	-
AV	2.4018G	76.15	Inf	-Inf	31.02	3	V	302	1.59	-
PK	2.3818G	57.33	74.00	-16.67	31.05	3	V	302	1.59	-
PK	2.4018G	100.88	Inf	-Inf	31.02	3	V	302	1.59	-

BT-BR(1Mbps)

2402MHz_TX

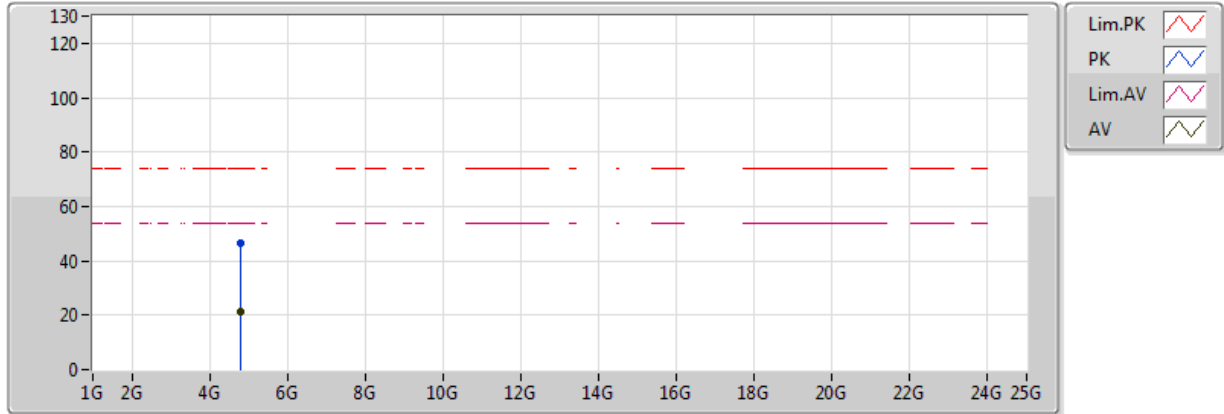


20170509
EUT_Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.382G	37.11	54.00	-16.89	31.05	3	H	0	1.00	-
AV	2.4018G	84.18	Inf	-Inf	31.02	3	H	0	1.00	-
PK	2.382G	61.84	74.00	-12.16	31.05	3	H	0	1.00	-
PK	2.4018G	108.91	Inf	-Inf	31.02	3	H	0	1.00	-

BT-BR(1Mbps)

2402MHz_TX

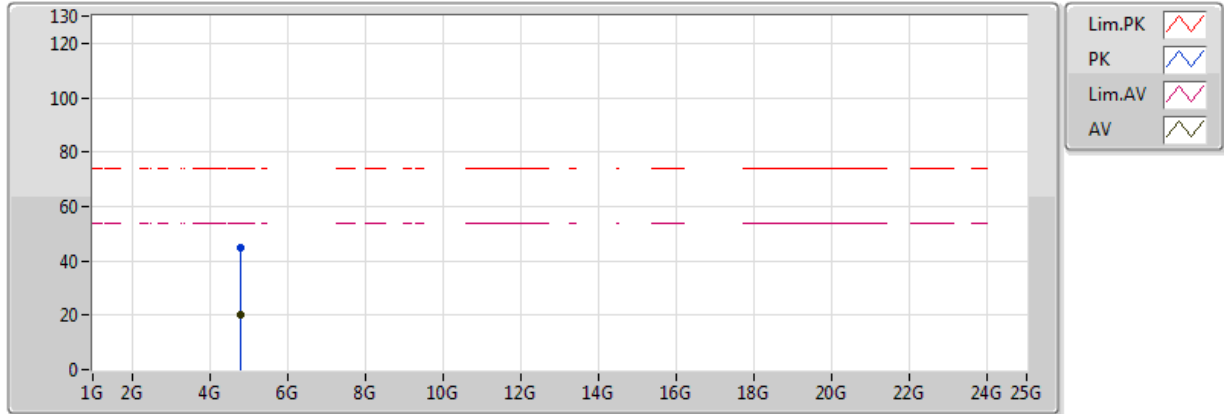


20170509
EUT_Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8112G	21.54	54.00	-32.46	3.36	3	V	350	2.10	-
PK	4.8112G	46.27	74.00	-27.73	3.36	3	V	350	2.10	-

BT-BR(1Mbps)

2402MHz_TX

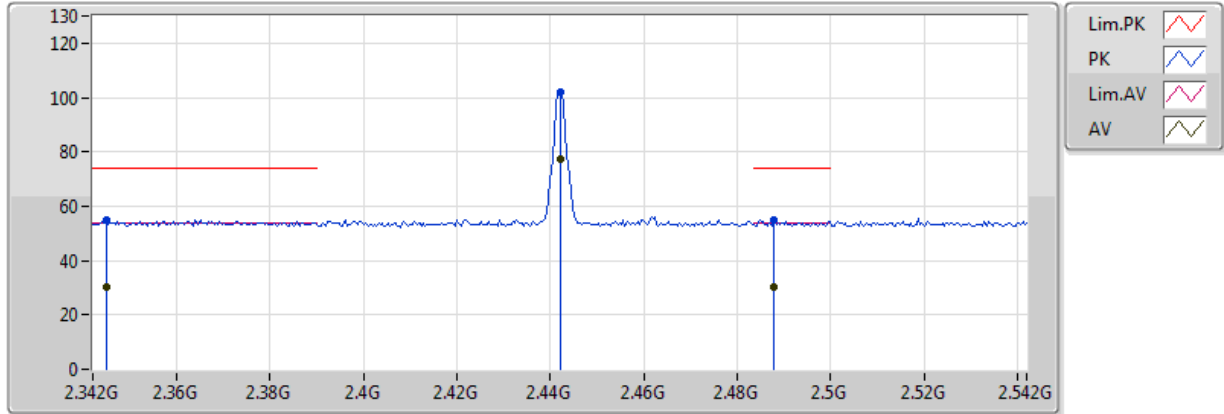


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.779G	20.12	54.00	-33.88	3.27	3	H	294	1.50	-
PK	4.779G	44.85	74.00	-29.15	3.27	3	H	294	1.50	-

BT-BR(1Mbps)

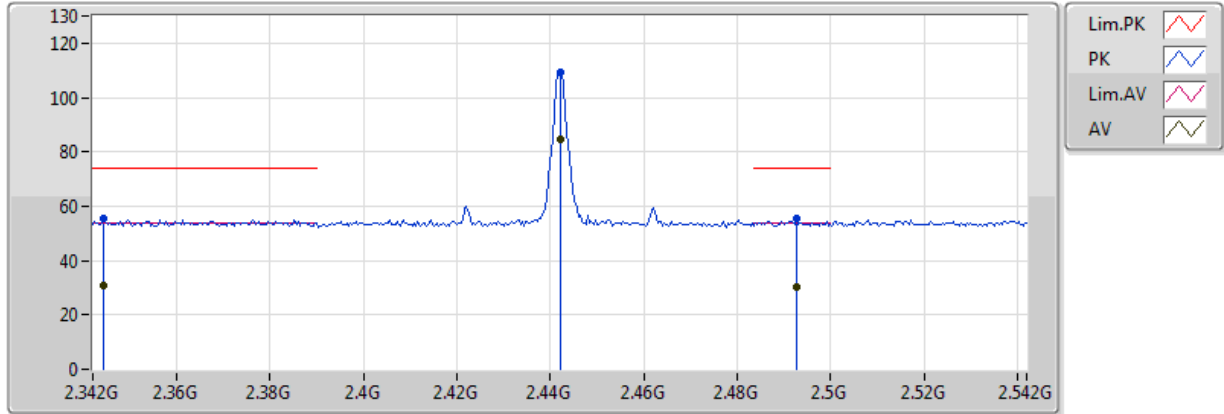
2442MHz_TX



Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3448G	30.06	54.00	-23.94	31.10	3	V	18	1.50	-
AV	2.442G	77.36	Inf	-Inf	30.97	3	V	18	1.50	-
AV	2.488G	30.26	54.00	-23.74	30.91	3	V	18	1.50	-
PK	2.3448G	54.79	74.00	-19.21	31.10	3	V	18	1.50	-
PK	2.442G	102.09	Inf	-Inf	30.97	3	V	18	1.50	-
PK	2.488G	54.99	74.00	-19.01	30.91	3	V	18	1.50	-

BT-BR(1Mbps)

2442MHz_TX

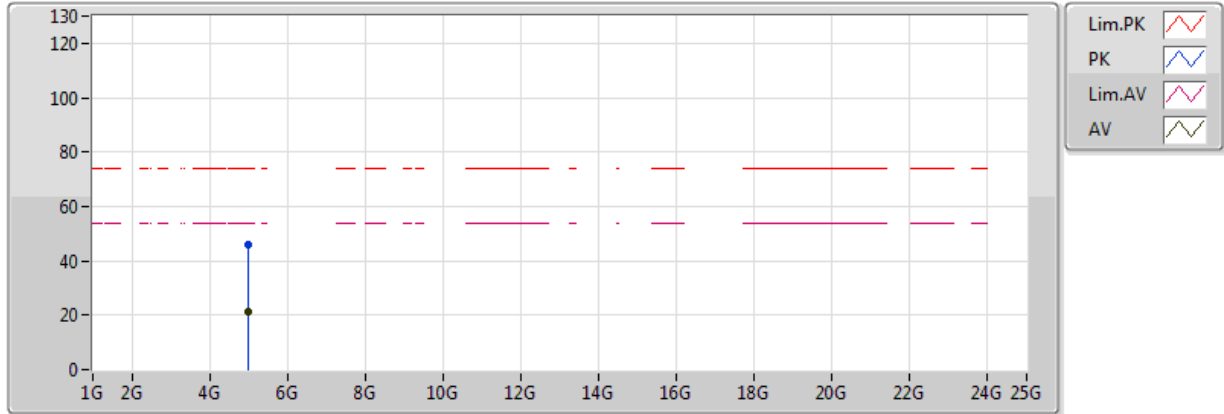


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3444G	30.77	54.00	-23.23	31.10	3	H	17	1.73	-
AV	2.442G	84.76	Inf	-Inf	30.97	3	H	17	1.73	-
AV	2.4928G	30.49	54.00	-23.51	30.91	3	H	17	1.73	-
PK	2.3444G	55.50	74.00	-18.50	31.10	3	H	17	1.73	-
PK	2.442G	109.49	Inf	-Inf	30.97	3	H	17	1.73	-
PK	2.4928G	55.22	74.00	-18.78	30.91	3	H	17	1.73	-

BT-BR(1Mbps)

2442MHz_TX

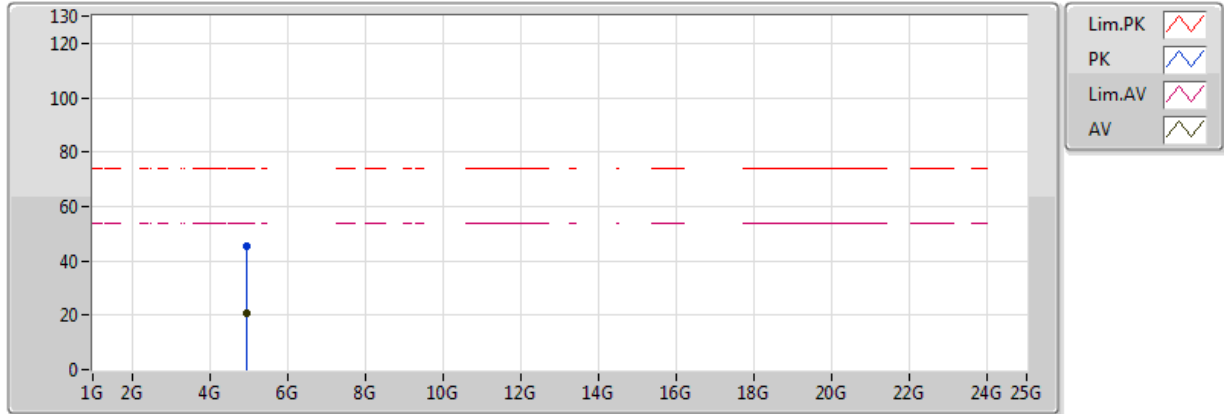


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9784G	21.29	54.00	-32.71	3.86	3	V	267	1.27	-
PK	4.9784G	46.02	74.00	-27.98	3.86	3	V	267	1.27	-

BT-BR(1Mbps)

2442MHz_TX

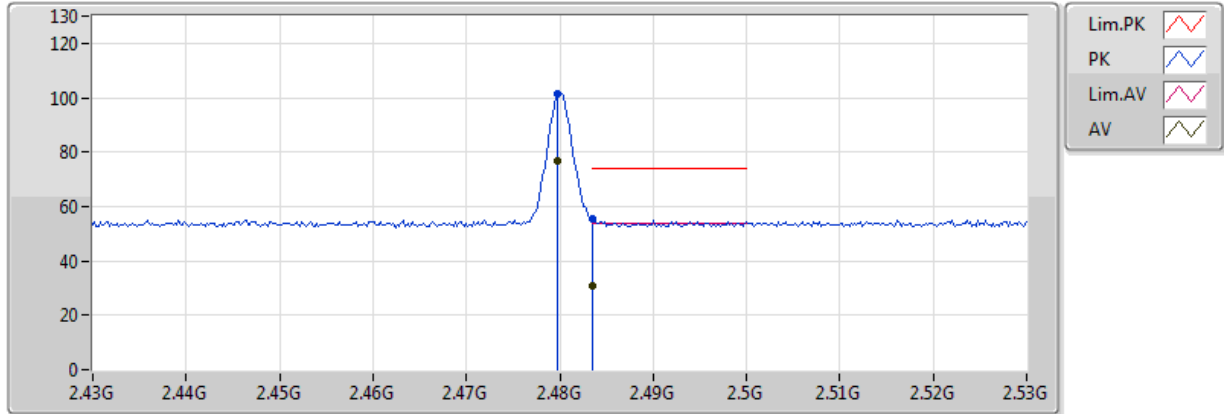


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9704G	20.86	54.00	-33.14	3.83	3	H	287	1.64	-
PK	4.9704G	45.59	74.00	-28.41	3.83	3	H	287	1.64	-

BT-BR(1Mbps)

2480MHz_TX

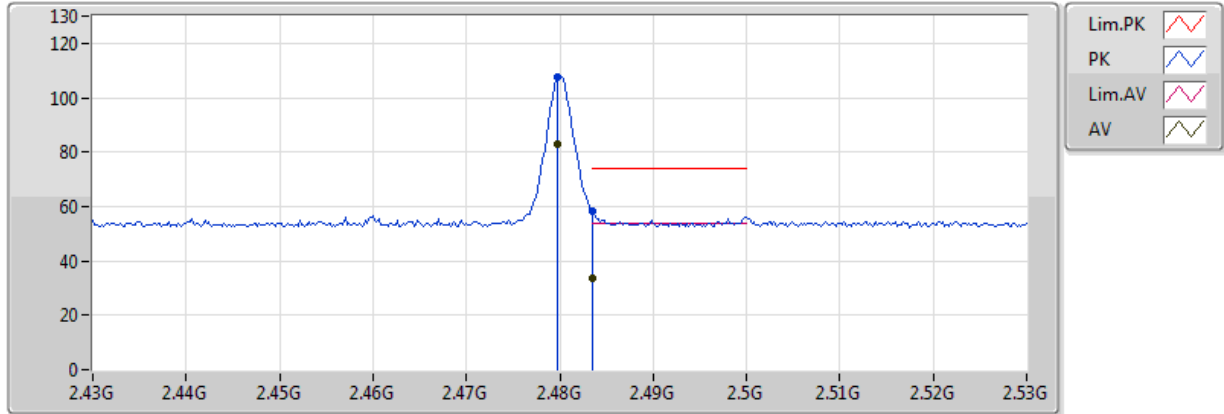


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4798G	76.57	Inf	-Inf	30.92	3	V	19	1.50	-
AV	2.483502G	30.56	54.00	-23.44	30.92	3	V	19	1.50	-
PK	2.4798G	101.30	Inf	-Inf	30.92	3	V	19	1.50	-
PK	2.483502G	55.29	74.00	-18.71	30.92	3	V	19	1.50	-

BT-BR(1Mbps)

2480MHz_TX

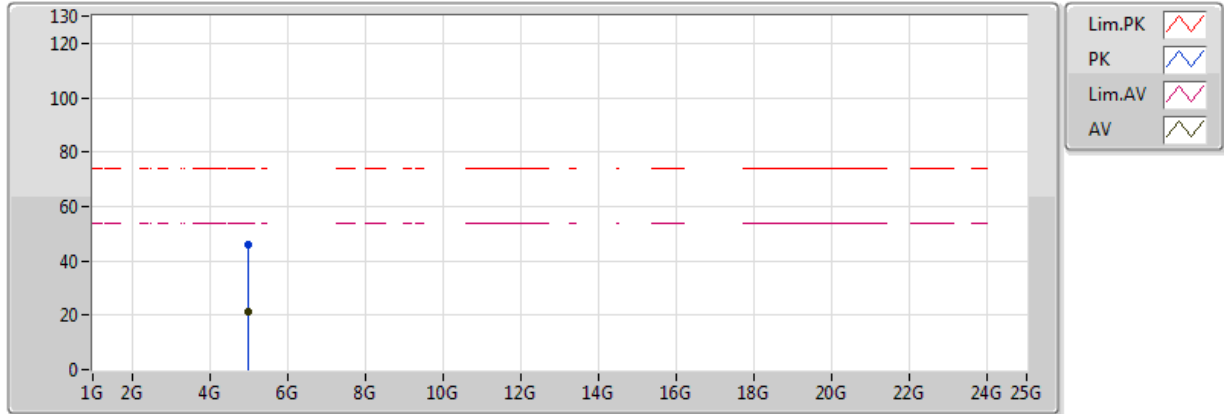


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4798G	82.95	Inf	-Inf	30.92	3	H	354	1.51	-
AV	2.483502G	33.82	54.00	-20.18	30.92	3	H	354	1.51	-
PK	2.4798G	107.68	Inf	-Inf	30.92	3	H	354	1.51	-
PK	2.483502G	58.55	74.00	-15.45	30.92	3	H	354	1.51	-

BT-BR(1Mbps)

2480MHz_TX

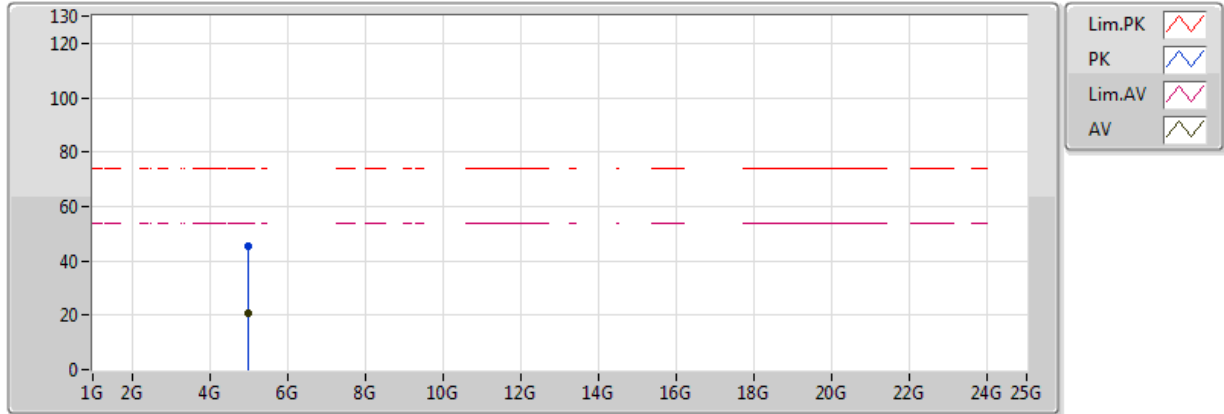


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9988G	21.22	54.00	-32.78	3.92	3	V	83	1.11	-
PK	4.9988G	45.95	74.00	-28.05	3.92	3	V	83	1.11	-

BT-BR(1Mbps)

2480MHz_TX

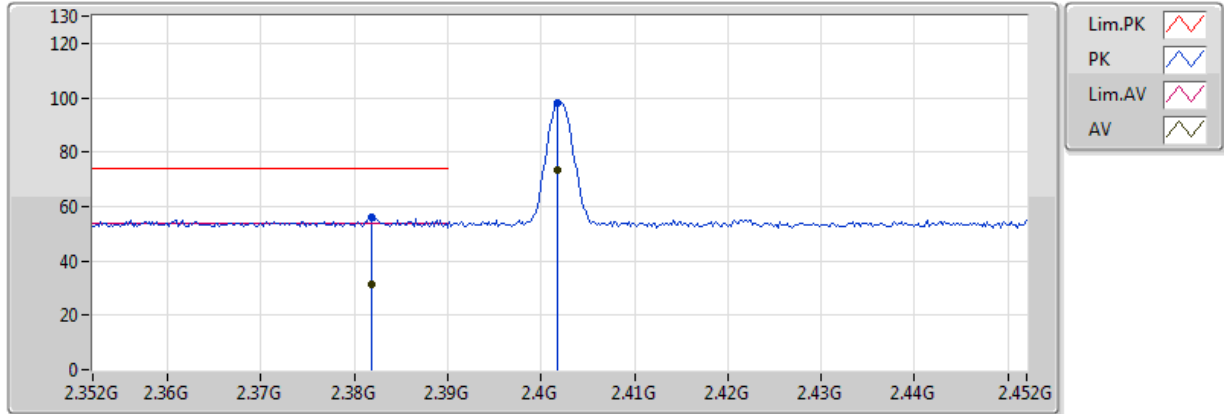


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9782G	20.80	54.00	-33.20	3.86	3	H	263	2.17	-
PK	4.9782G	45.53	74.00	-28.47	3.86	3	H	263	2.17	-

BT-EDR(3Mbps)

2402MHz_TX

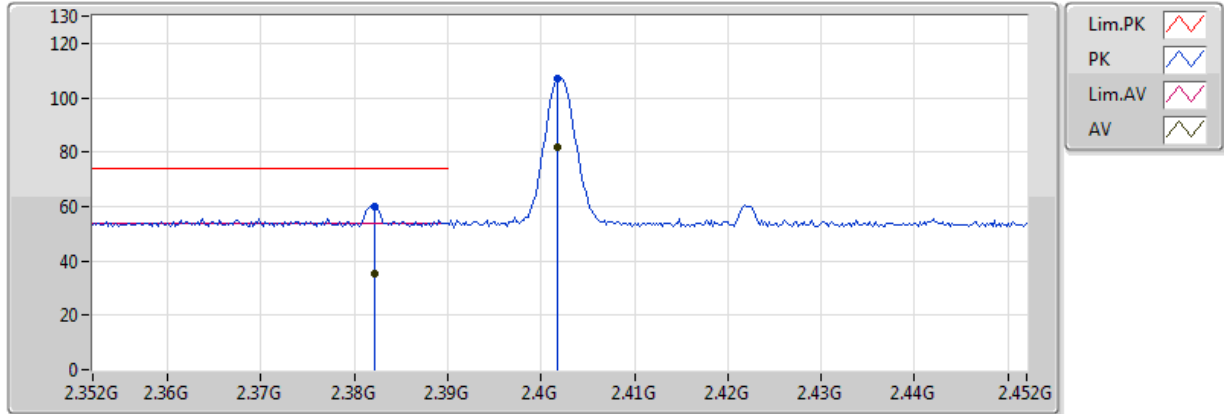


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3818G	31.44	54.00	-22.56	31.05	3	V	302	1.58	-
AV	2.4018G	73.24	Inf	-Inf	31.02	3	V	302	1.58	-
PK	2.3818G	56.17	74.00	-17.83	31.05	3	V	302	1.58	-
PK	2.4018G	97.97	Inf	-Inf	31.02	3	V	302	1.58	-

BT-EDR(3Mbps)

2402MHz_TX

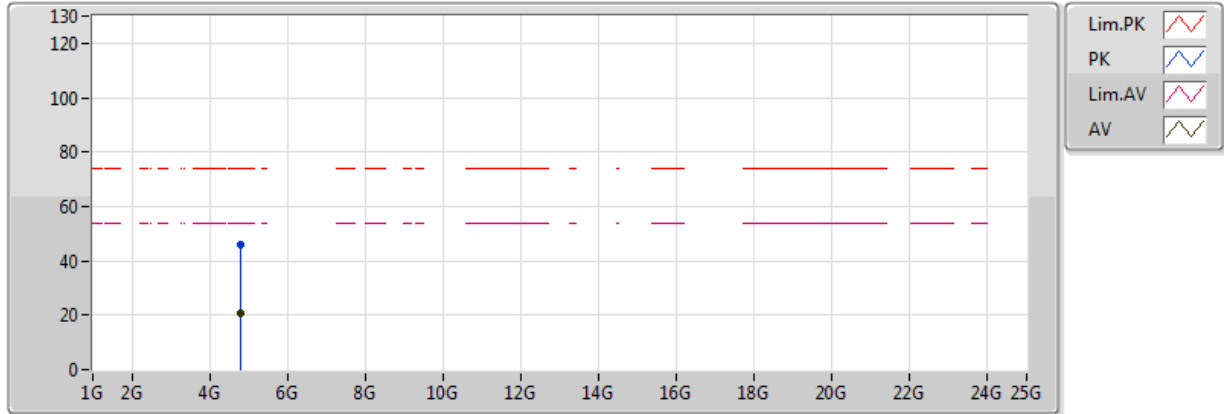


20170509
EUT_Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3822G	35.50	54.00	-18.50	31.05	3	H	7	1.13	-
AV	2.4018G	82.03	Inf	-Inf	31.02	3	H	7	1.13	-
PK	2.3822G	60.23	74.00	-13.77	31.05	3	H	7	1.13	-
PK	2.4018G	106.76	Inf	-Inf	31.02	3	H	7	1.13	-

BT-EDR(3Mbps)

2402MHz_TX

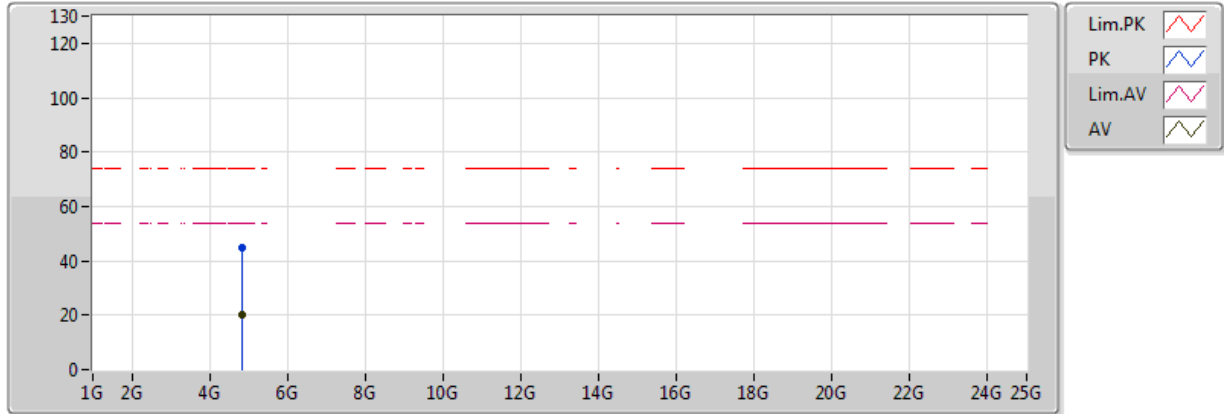


20170509
EUT_Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8148G	20.95	54.00	-33.05	3.37	3	V	345	1.61	-
PK	4.8148G	45.68	74.00	-28.32	3.37	3	V	345	1.61	-

BT-EDR(3Mbps)

2402MHz_TX

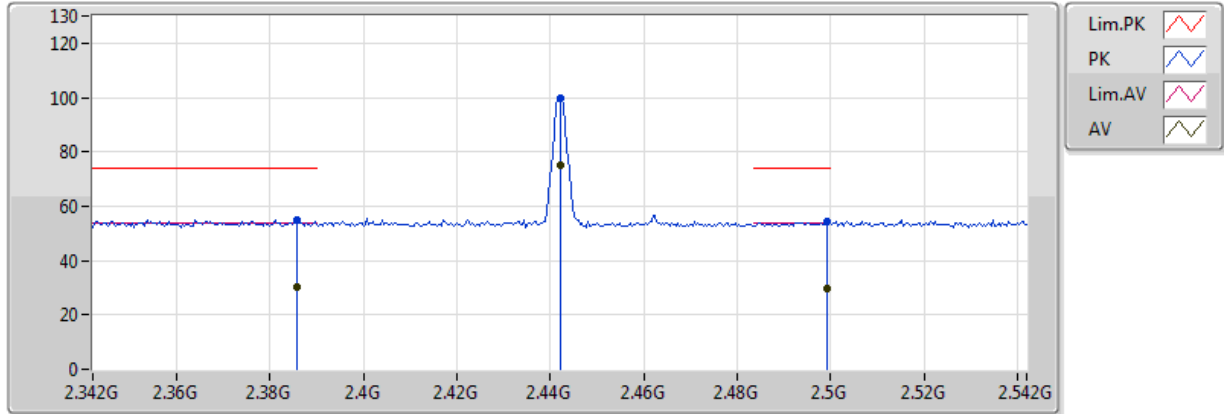


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8278G	20.18	54.00	-33.82	3.41	3	H	221	2.27	-
PK	4.8278G	44.91	74.00	-29.09	3.41	3	H	221	2.27	-

BT-EDR(3Mbps)

2442MHz_TX

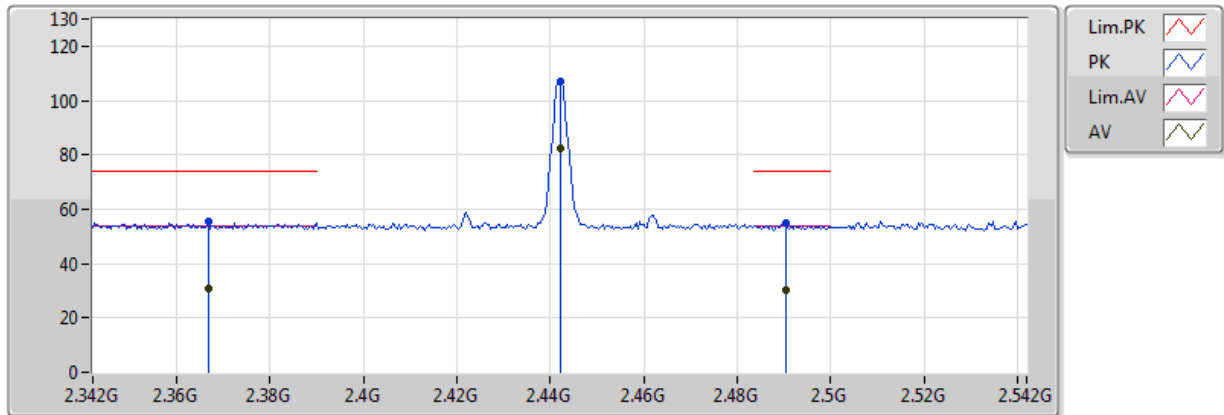


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3856G	30.46	54.00	-23.54	31.04	3	V	15	1.64	-
AV	2.442G	74.99	Inf	-Inf	30.97	3	V	15	1.64	-
AV	2.4992G	29.60	54.00	-24.40	30.90	3	V	15	1.64	-
PK	2.3856G	55.19	74.00	-18.81	31.04	3	V	15	1.64	-
PK	2.442G	99.72	Inf	-Inf	30.97	3	V	15	1.64	-
PK	2.4992G	54.33	74.00	-19.67	30.90	3	V	15	1.64	-

BT-EDR(3Mbps)

2442MHz_TX

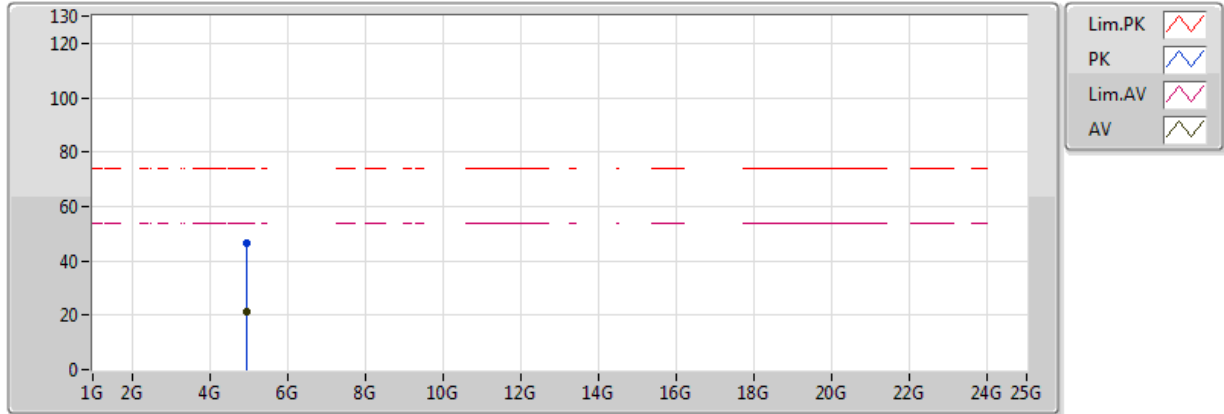


20170509
EUT_Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3668G	30.55	54.00	-23.45	31.07	3	H	16	1.73	-
AV	2.442G	82.26	Inf	-Inf	30.97	3	H	16	1.73	-
AV	2.4904G	30.38	54.00	-23.62	30.91	3	H	16	1.73	-
PK	2.3668G	55.28	74.00	-18.72	31.07	3	H	16	1.73	-
PK	2.442G	106.99	Inf	-Inf	30.97	3	H	16	1.73	-
PK	2.4904G	55.11	74.00	-18.89	30.91	3	H	16	1.73	-

BT-EDR(3Mbps)

2442MHz_TX

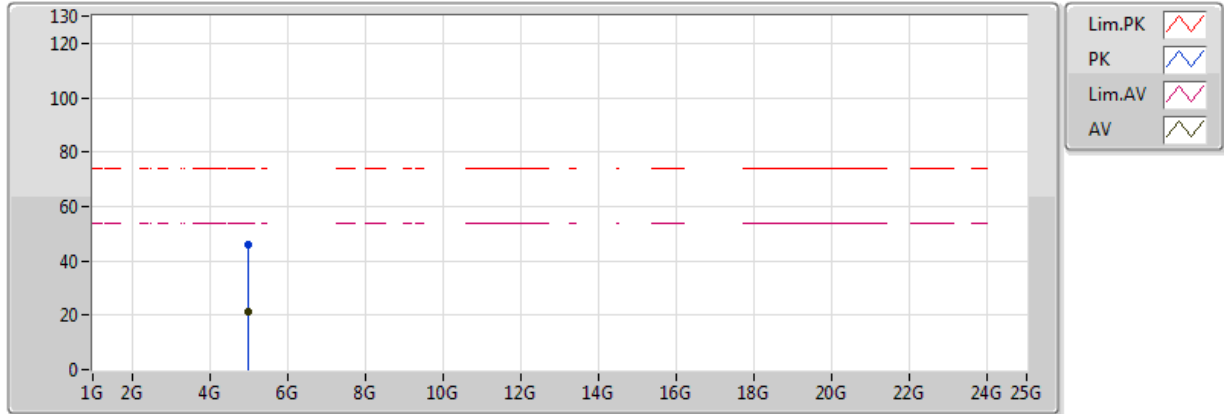


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9428G	21.56	54.00	-32.44	3.75	3	V	340	1.27	-
PK	4.9428G	46.29	74.00	-27.71	3.75	3	V	340	1.27	-

BT-EDR(3Mbps)

2442MHz_TX

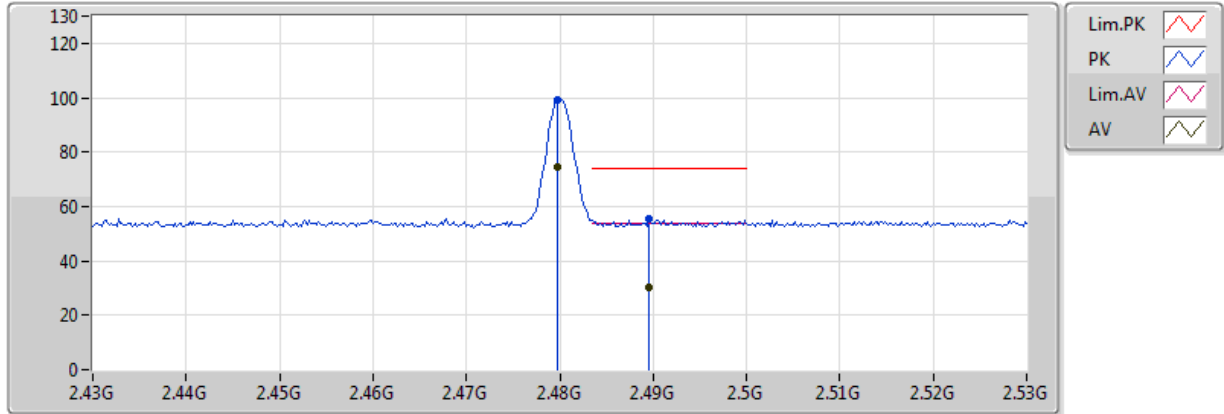


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9824G	21.04	54.00	-32.96	3.87	3	H	43	1.21	-
PK	4.9824G	45.77	74.00	-28.23	3.87	3	H	43	1.21	-

BT-EDR(3Mbps)

2480MHz_TX

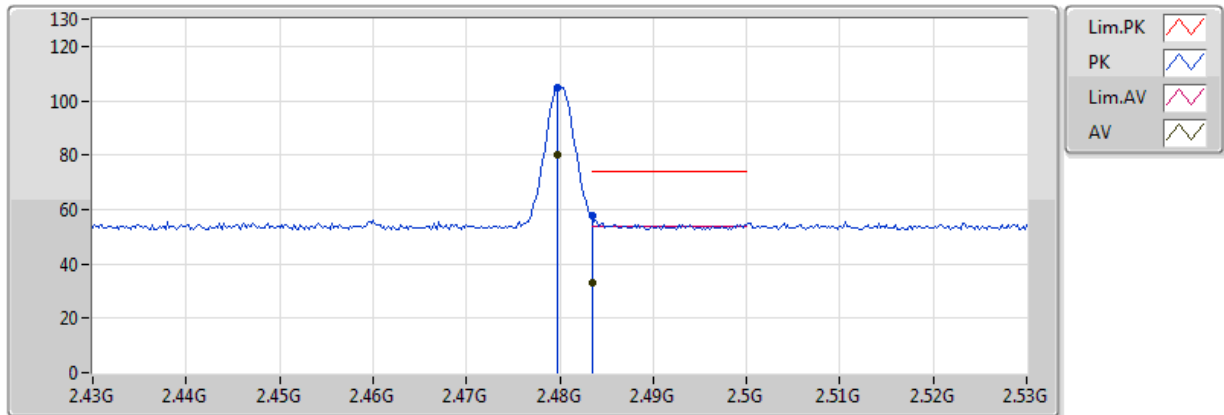


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4798G	74.47	Inf	-Inf	30.92	3	V	15	1.46	-
AV	2.4896G	30.53	54.00	-23.47	30.91	3	V	15	1.46	-
PK	2.4798G	99.20	Inf	-Inf	30.92	3	V	15	1.46	-
PK	2.4896G	55.26	74.00	-18.74	30.91	3	V	15	1.46	-

BT-EDR(3Mbps)

2480MHz_TX

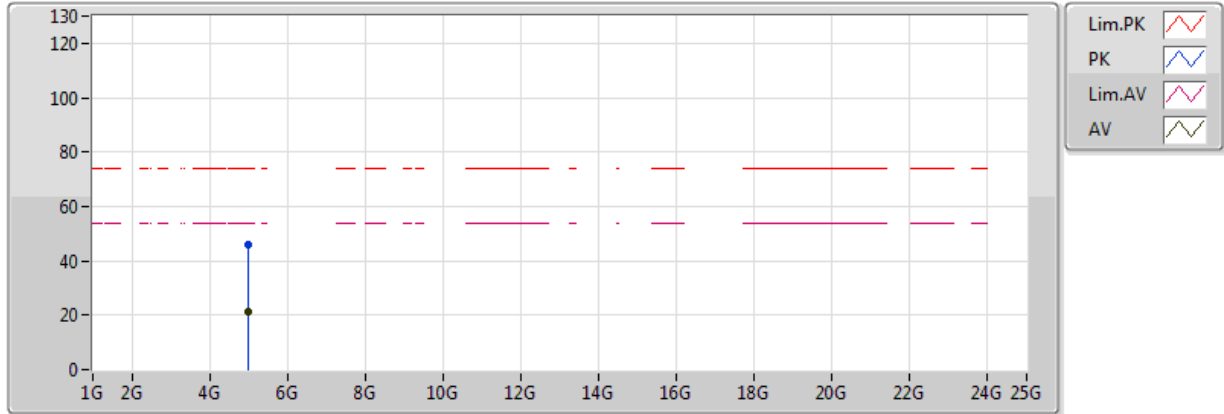


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4798G	80.24	Inf	-Inf	30.92	3	H	354	1.55	-
AV	2.483502G	32.87	54.00	-21.13	30.92	3	H	354	1.55	-
PK	2.4798G	104.97	Inf	-Inf	30.92	3	H	354	1.55	-
PK	2.483502G	57.60	74.00	-16.40	30.92	3	H	354	1.55	-

BT-EDR(3Mbps)

2480MHz_TX

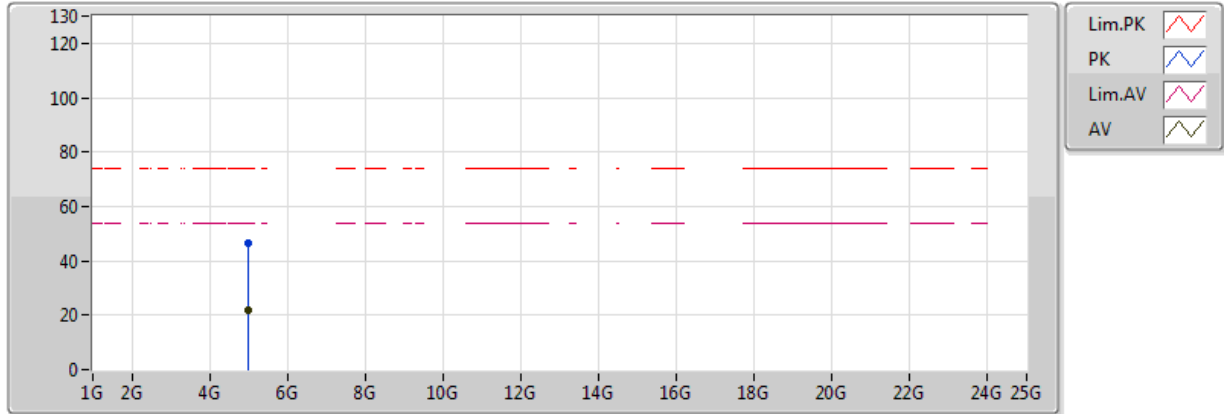


20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.0072G	21.45	54.00	-32.55	3.94	3	V	47	1.04	-
PK	5.0072G	46.18	74.00	-27.82	3.94	3	V	47	1.04	-

BT-EDR(3Mbps)

2480MHz_TX



20170509
EUT Y_1TX
Setting Default
01-J-6
FSP(100304)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9802G	21.89	54.00	-32.11	3.86	3	H	32	2.21	-
PK	4.9802G	46.62	74.00	-27.38	3.86	3	H	32	2.21	-