

NCC Test Report

Equipment : BT121 Bluetooth Smart Ready Module
Brand Name : Silicon Labs
Model No. : BT121
Standard : LP0002 Section 3.10 (2016-08-23)
Operating Band : 2400 MHz – 2483.5 MHz
Applicant : 精聯電子股份有限公司
新北市新店區寶橋路 235 巷 136 號 5F
Manufacturer : Silicon Laboratories International Pte Ltd
Alberga Business Park, Bertel Jungin Aukio 3, 02600
Espoo Finland

The product sample received on Jun. 02, 2017 and completely tested on Jun. 22, 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 INTERNATIONAL INC., the test report shall not be reproduced except in full.


Phoenix Chen
SPORTON INTERNATIONAL INC.

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Testing Applied Standards	6
1.3	Testing Location Information	6
1.4	Measurement Uncertainty	6
2	TEST CONFIGURATION OF EUT.....	7
2.1	Test Condition	7
2.2	Test Channel Mode	7
2.3	The Worst Case Measurement Configuration.....	8
2.4	Support Equipment.....	9
2.5	Test Setup Diagram	10
3	TRANSMITTER TEST RESULT	11
3.1	AC Power-line Conducted Emissions	11
3.2	20dB Bandwidth and Carrier Frequency Separation.....	12
3.3	Maximum Conducted Output Power	13
3.4	Number of Hopping Frequencies and Hopping Bandedge	14
3.5	Time of Occupancy (Dwell Time)	15
3.6	Emissions in Non-restricted Frequency Bands	16
3.7	Emissions in Restricted Frequency Bands.....	17
3.8	Receiver Radiated Spurious Emissions	20
4	TEST EQUIPMENT AND CALIBRATION DATA	23
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS		
APPENDIX B. TEST RESULTS OF 20DB BANDWIDTH AND CARRIER FREQUENCY SEPARATION		
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER		
APPENDIX D. TEST RESULTS OF NUMBER OF HOPPING FREQUENCIES AND HOPPING BANDEDGE		
APPENDIX E. TEST RESULTS OF TIME OF OCCUPANCY (DWELL TIME)		
APPENDIX F. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS		
APPENDIX G. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS		
APPENDIX H. TEST PHOTOS		
PHOTOGRAPHS OF EUT V01		

Summary of Test Result

Conformance Test Specifications				
Report Clause	Ref. Std. Clause	Description	Limit	Result
1.1.2	3.10.1.4	Antenna Requirement	LP0002-2.2	Complied
3.1	2.3	AC Power-line Conducted Emissions	LP0002-2.3	Complied
3.2	3.10.1.6	20dB Bandwidth	3.10.1.6	Complied
3.2	3.10.1.6	Carrier Frequency Separation	3.10.1.6	Complied
3.3	3.10.1.2	Maximum Conducted Output Power	3.10.1.2	Complied
3.4	3.10.1.6	Number of Hopping Frequencies and Hopping Bandedge	3.10.1.6	Complied
3.5	3.10.1.6	Time of Occupancy (Dwell Time)	3.10.1.6	Complied
3.6	3.10.1.5	Emissions in Non-restricted Frequency Bands	3.10.1.5	Complied
3.7	3.10.1.5	Emissions in Restricted Frequency Bands	Restricted Bands: LP0002-2.8	Complied
3.8	2.11	Receiver Radiated Unwanted Emissions	Restricted Bands: LP0002-2.8	Complied



SPORTON INTERNATIONAL INC.
TEL : 886-3-3273456
FAX : 886-3-3270973

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	AMOTECH	-	chip antenna	fixed on board	3.29

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-BR(1Mbps)	0.771	1.129	2.893m	1k
BT-EDR(2Mbps)	0.786	1.046	2.895m	1k
BT-EDR(3Mbps)	0.744	1.284	2.897m	1k

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ NCC LP0002 (2016-08-23)
- ♦ FCC Public Notice DA 00-705
- ♦ ANSI C63.10-2013
- ♦ ANSI C63.4-2014
- ♦ KDB 558074 D01 v04

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, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, 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-HY	Wayne	21.5°C / 61%	12/Jun/2017
Radiated	03CH03-HY	Ryan	23.5°C / 65%	13/Jun/2017
AC Conduction	CO04-HY	Bear	22.1°C / 59%	22/Jun/2017

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)	3.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	2.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	2.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	2.9 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software Version	BT Tool 1.1.0-154
-----------------------	-------------------

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	15
2440MHz	15
2480MHz	15
BT-EDR(2Mbps)	-
2402MHz	15
2440MHz	15
2480MHz	15
BT-EDR(3Mbps)	-
2402MHz	15
2440MHz	15
2480MHz	15

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	DC Power Supply

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	CTX/CRX		
1	DC Power Supply		
Operating Mode > 1GHz	CTX/CRX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

2.4 Support Equipment

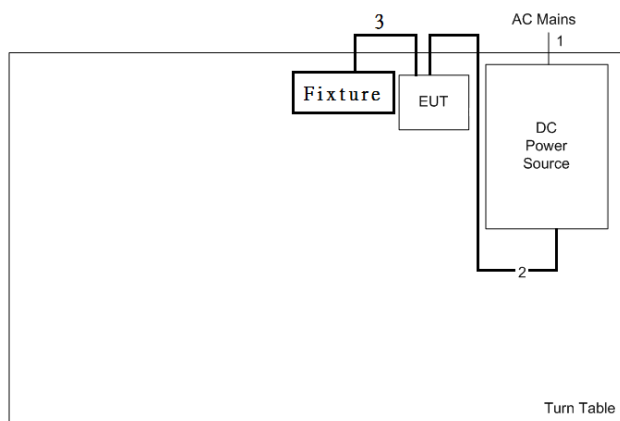
Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	R33002 / DOC
2	Adapter for NB	DELL	HA65NM130	R35737 / DOC
3	DC power supply	GW	GPS-3030DD	-

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	DC power supply	G.W.	GPC-6030D	-

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	DC power supply	G.W.	GPC-6030D	-

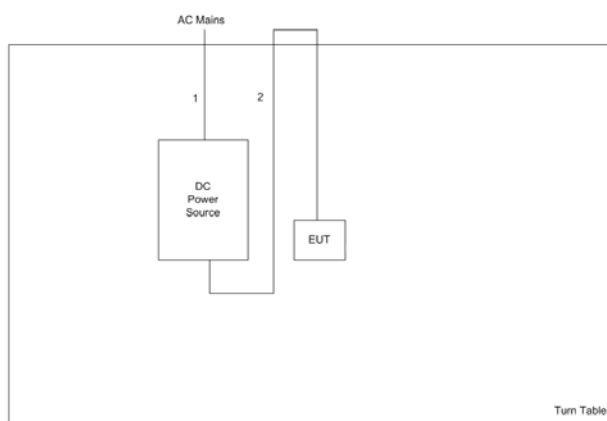
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length
1	AC power line	No	1.8m
2	DC power line	No	2.0m
3	line	No	0.2m

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length
1	AC power line	No	2.0m
2	DC power line	No	1.0m

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.

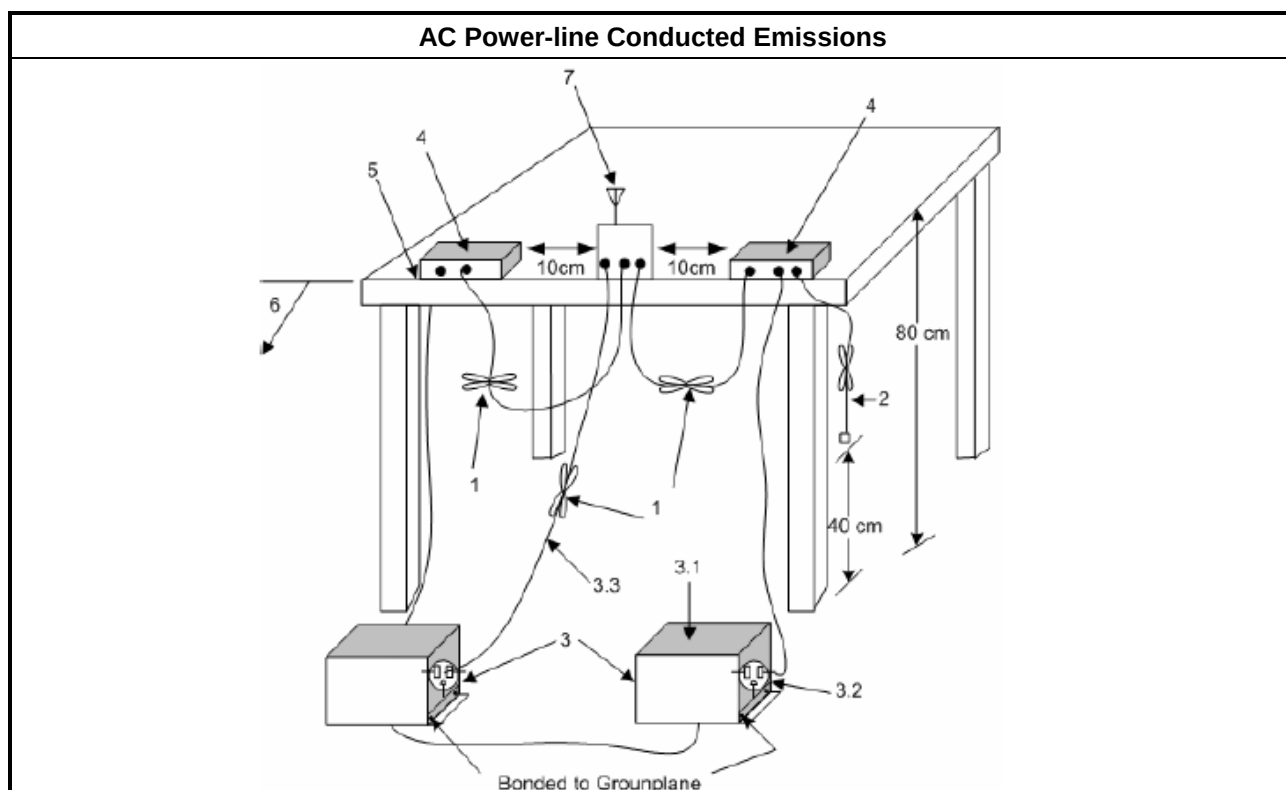
3.1.2 Measuring Instruments

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 foray 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	

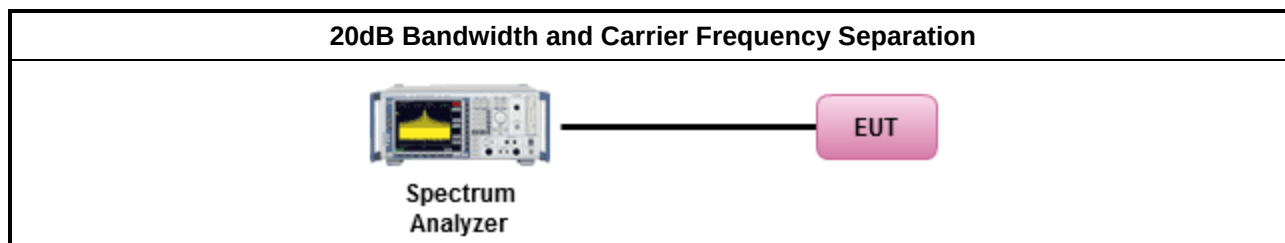
3.2.2 Measuring Instruments

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

3.2.4 Test Setup



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	

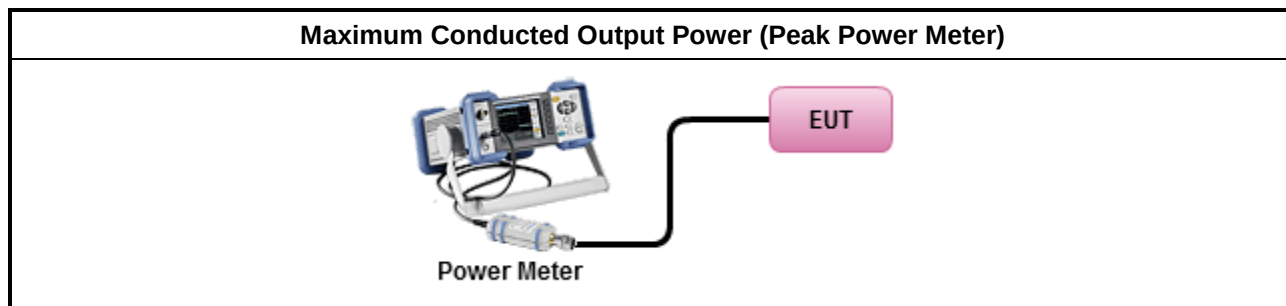
3.3.2 Measuring Instruments

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

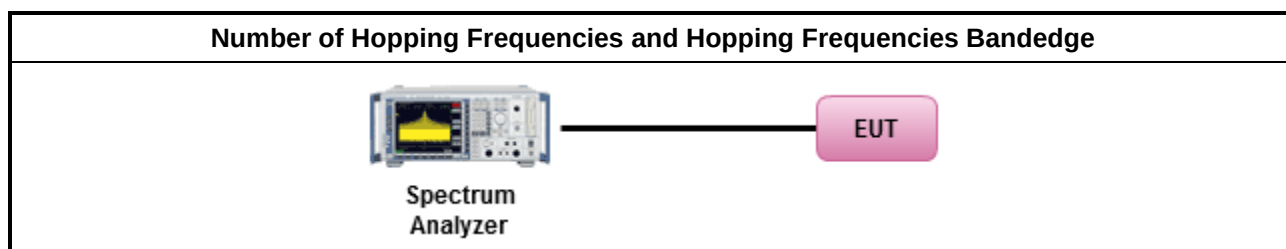
3.4.3 Measuring Instruments

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

Time of Occupancy (Dwell Time) 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	

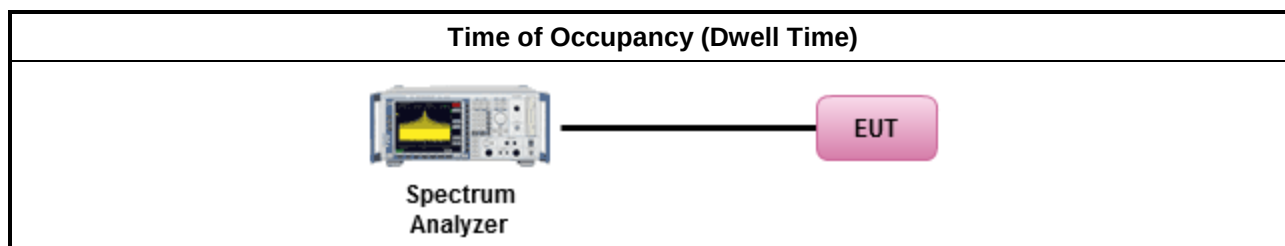
3.5.2 Measuring Instruments

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.	

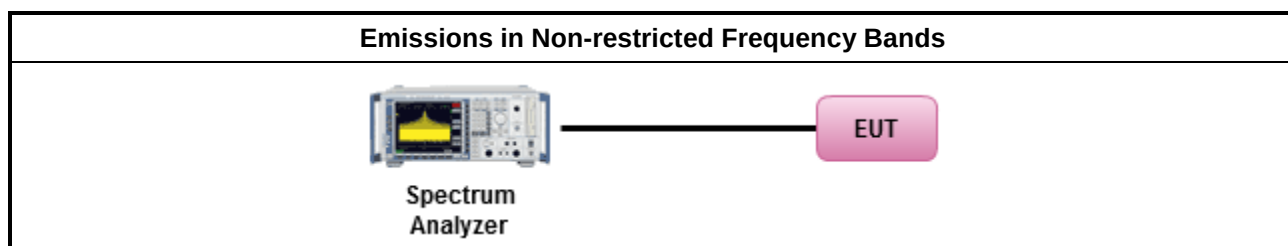
3.6.2 Measuring Instruments

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.

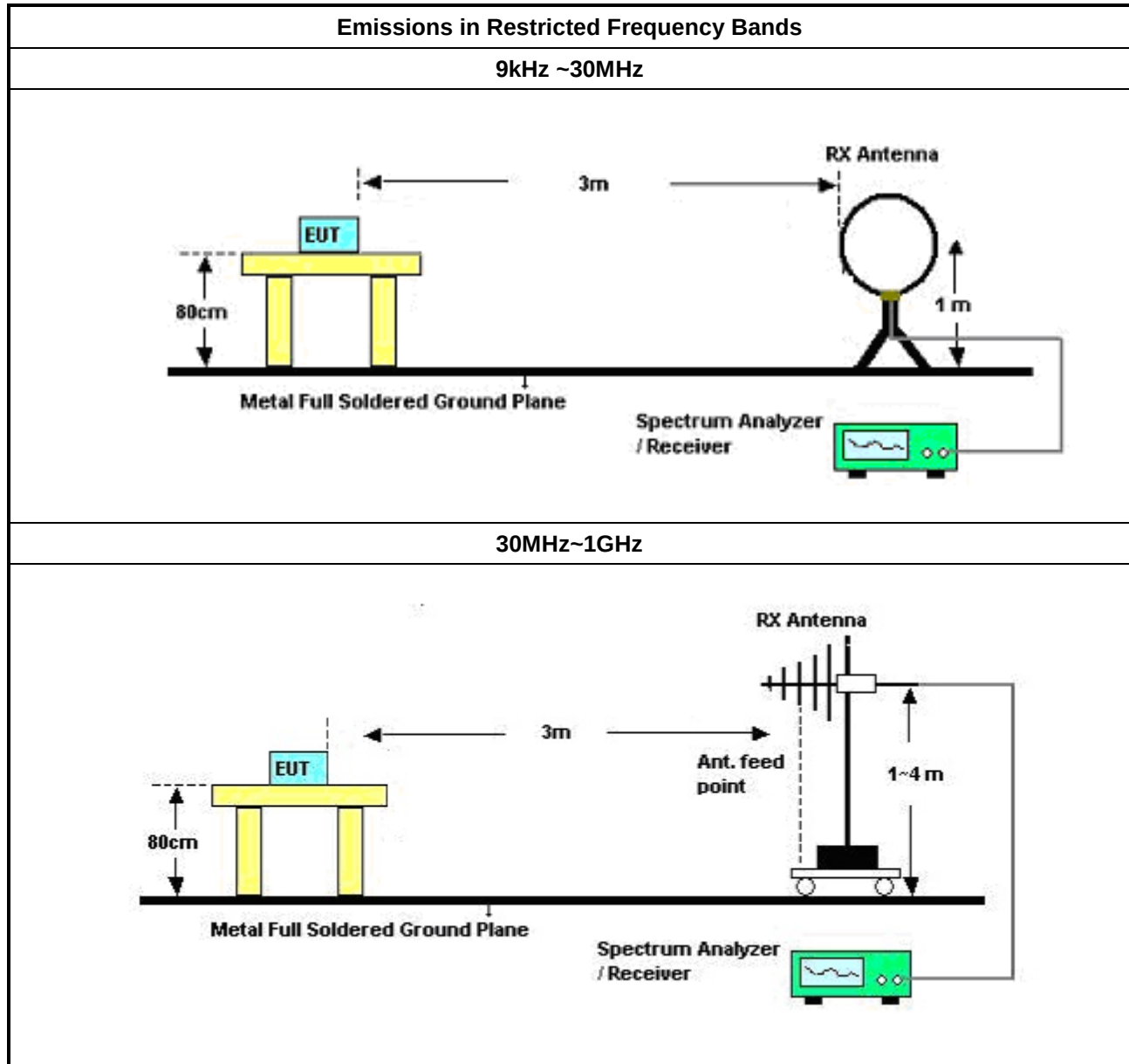
3.7.2 Measuring Instruments

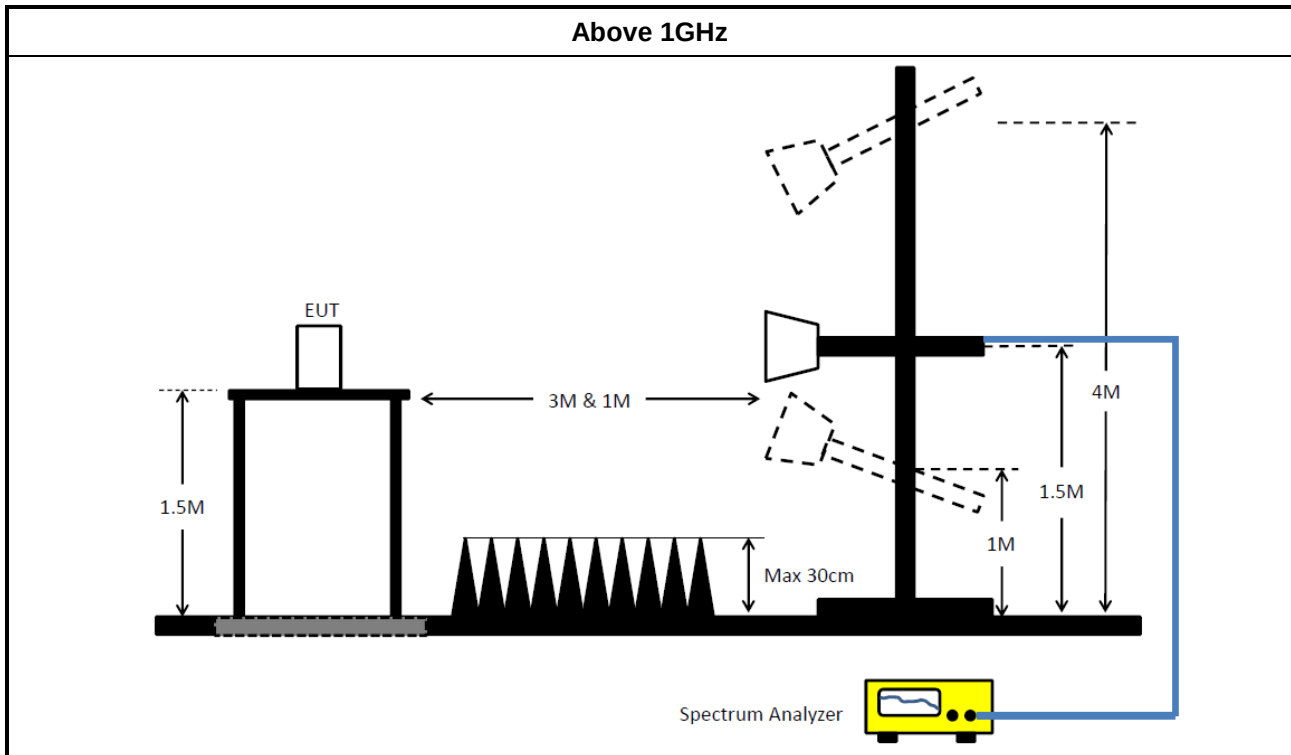
Refer a test equipment and calibration data table in this test report.

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 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. 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 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

3.8 Receiver Radiated Spurious Emissions

3.8.1 Receiver in Radiated Spurious Emissions Limit

Restricted Spurious 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.

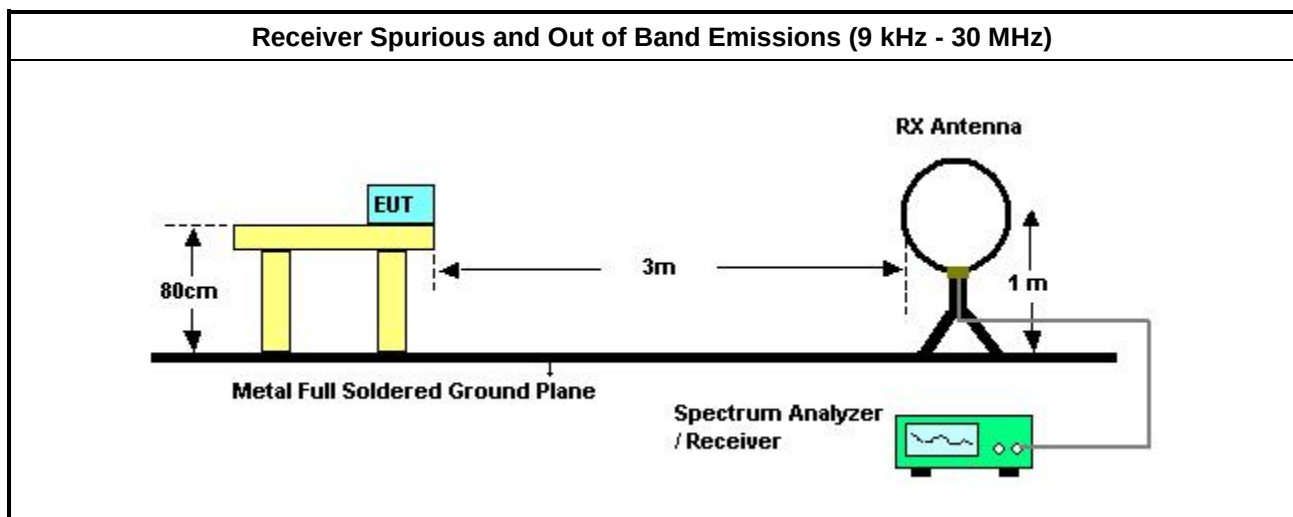
3.8.2 Measuring Instruments

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

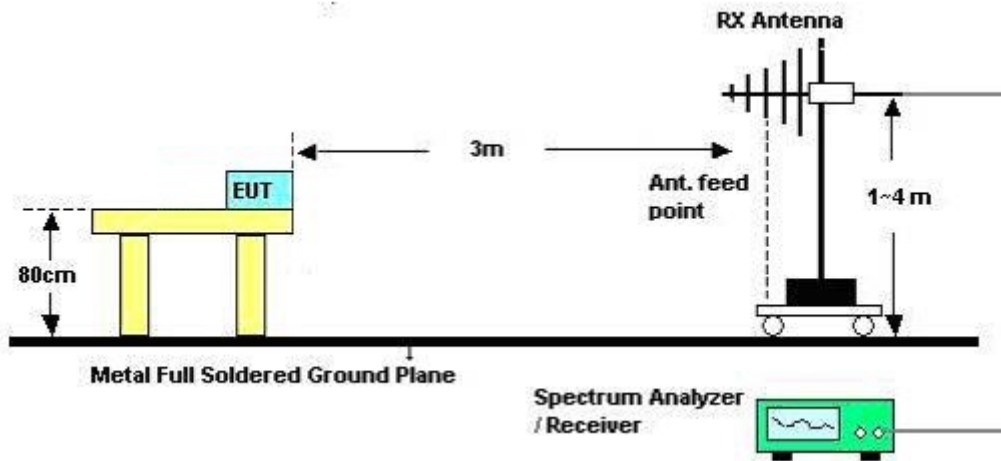
3.8.3 Test Procedures

Test Method	
☒	The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.
☒	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).
☒	For radiated measurement, refer as KDB558074, clause 12.2.7.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from below 30 MHz.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from 30 MHz-1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the QP-Limit so that the QP level does not need to be reported in addition.
☒	Refer as ANSI C63.4, clause 8.3.1.2 and 8.3.2.2 for radiated emissions from above 1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
☒	All amplitude of spurious emissions that are attenuated by more than 30 dB below the permissible value has no need to be reported.

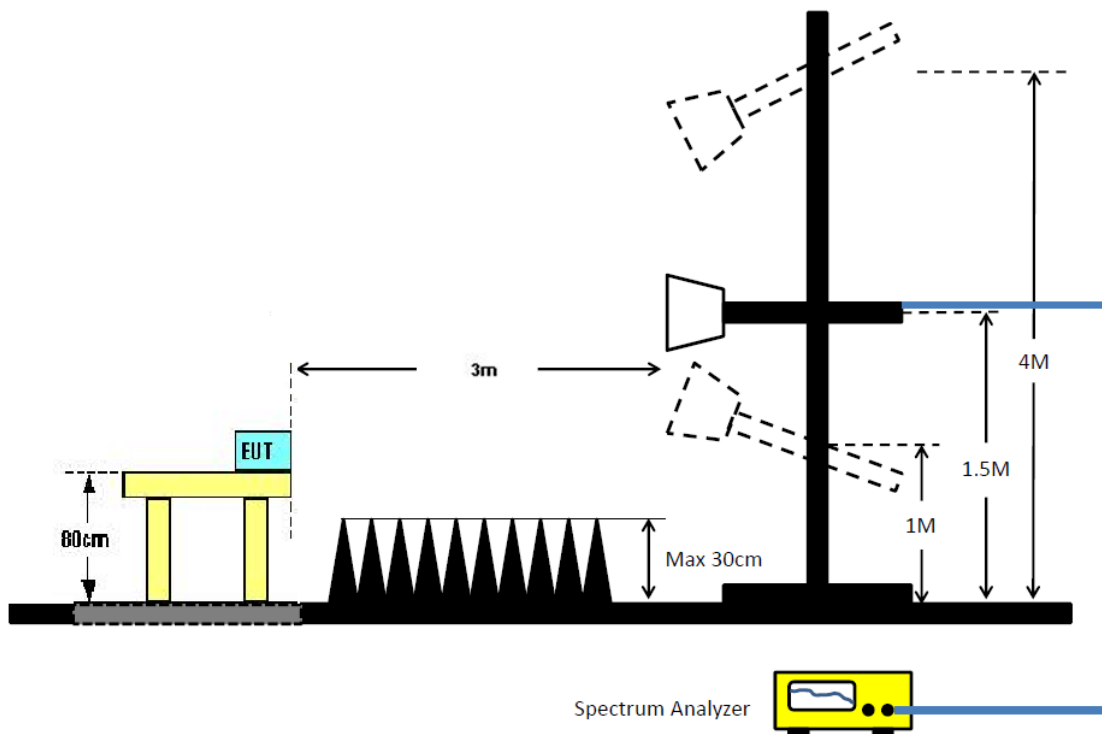
3.8.4 Test Setup



Receiver Radiated Unwanted Emissions (below 1GHz)



Receiver Radiated Unwanted Emissions (above 1GHz)



3.8.5 Receiver Radiated Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. Any spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported.

3.8.6 Test Result of Receiver Radiated Unwanted Emissions

Refer as Appendix G

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9KHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	15/Nov/2016	14/Nov/2017
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	24/Oct/2016	23/Oct/2017
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	R&S	ESH3-Z2	100921	10 kHz ~ 30 MHz	21/Oct/2015	20/Oct/2016
DC LISN	MESSTEC	AN20200	03/10219	100kHz~108MHz	14/Nov/2016	13/Nov/2017
DC LISN	MESSTEC	AN20200	03/10220	100kHz~108MHz	14/Nov/2016	13/Nov/2017

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz	28/Nov/2016	27/Nov/2017
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz	16/Dec/2016	15/Dec/2017
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	19/Apr/2017	18/Apr/2018
Amplifier	KEYSIGHT	83017A	MY53270197	1GHz ~ 26.5GHz	29/Aug/2016	28/Aug/2017
Spectrum	R&S	FSV40	101515	9kHz ~ 40GHz	28/Nov/2016	27/Nov/2017
Bilog Antenna	SCHAFFNER	CBL 6112D	2723	30MHz ~ 1GHz	01/Oct/2016	30/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120D 1531	1GHz ~ 18GHz	25/Apr/2017	24/Apr/2018
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
Loop Antenna	TESEQ	HLA 6120	24155	9 kHz~30 MHz	02/Mar/2017	01/Mar/2018
RF-Cable-high	SUHNER	SUHNER	CB222	1GHz ~ 40GHz	28/Oct/2016	27/Oct/2017
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	27/Oct/2016	26/Oct/2017

**Instrument for Conducted Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP 40	100305	9kHz~40GHz	30/Dec/2016	29/Dec/2017
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	27/Oct/2016	26/Oct/2017
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	27/Oct/2016	26/Oct/2017
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz~26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz~26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz~26.5GHz	02/Oct/2016	01/Oct/2017

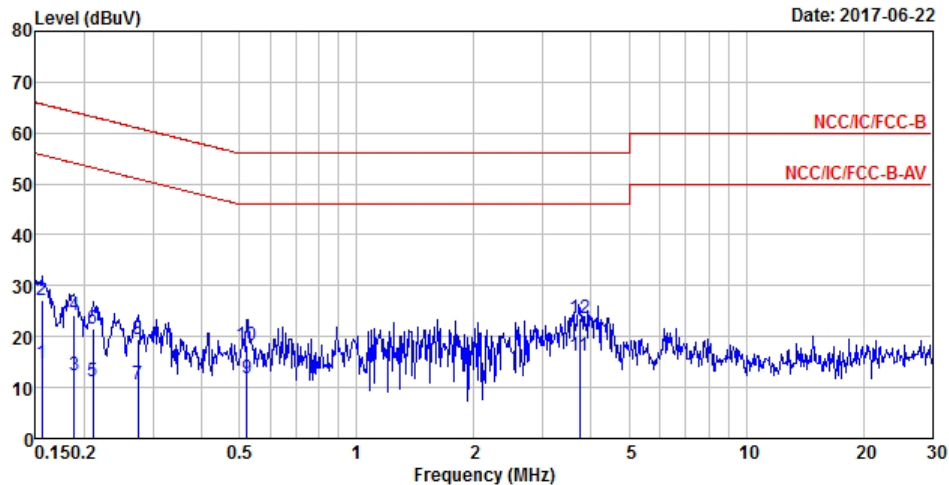
AC Power-line Conducted Emissions Result

Operating Mode

1

Power Phase

Neutral



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	14.84	-40.85	55.69	14.17	0.44	0.23	Average
2	0.16	27.08	-38.61	65.69	26.41	0.44	0.23	QP
3	0.19	12.48	-41.63	54.11	11.85	0.35	0.28	Average
4	0.19	24.21	-39.90	64.11	23.58	0.35	0.28	QP
5	0.21	11.16	-42.02	53.18	10.57	0.31	0.28	Average
6	0.21	21.65	-41.53	63.18	21.06	0.31	0.28	QP
7	0.27	10.48	-40.50	50.98	10.00	0.27	0.21	Average
8	0.27	19.40	-41.58	60.98	18.92	0.27	0.21	QP
9	0.52	11.88	-34.12	46.00	11.59	0.19	0.10	Average
10	0.52	18.17	-37.83	56.00	17.88	0.19	0.10	QP
11 MAX	3.74	16.37	-29.63	46.00	16.05	0.20	0.12	Average
12	3.74	23.62	-32.38	56.00	23.30	0.20	0.12	QP

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.)

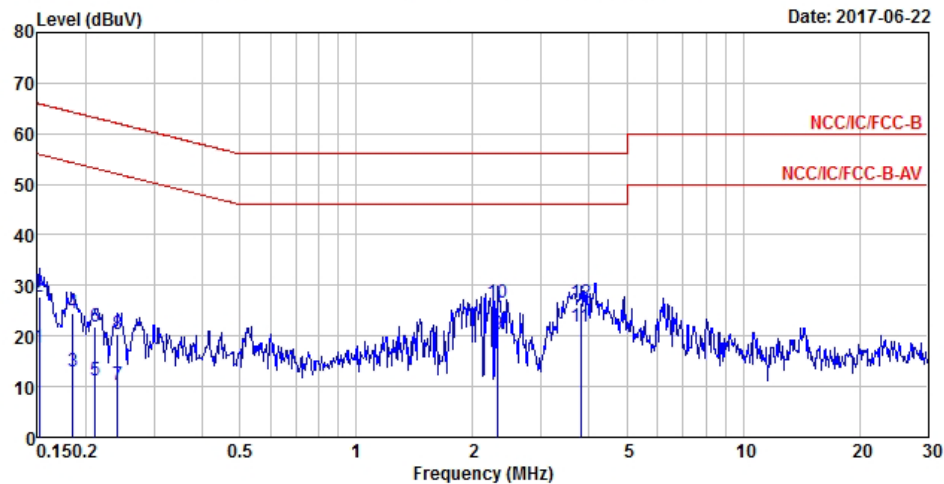
AC Power-line Conducted Emissions Result

Operating Mode

1

Power Phase

Line



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	17.75	-38.16	55.91	17.08	0.45	0.22	Average
2	0.15	27.77	-38.14	65.91	27.10	0.45	0.22	QP
3	0.19	12.92	-41.32	54.24	12.28	0.36	0.28	Average
4	0.19	24.63	-39.61	64.24	23.99	0.36	0.28	QP
5	0.21	11.17	-41.97	53.14	10.58	0.31	0.28	Average
6	0.21	21.80	-41.34	63.14	21.21	0.31	0.28	QP
7	0.24	10.33	-41.71	52.04	9.80	0.29	0.24	Average
8	0.24	20.34	-41.70	62.04	19.81	0.29	0.24	QP
9	2.32	20.35	-25.65	46.00	19.88	0.21	0.26	Average
10	2.32	26.61	-29.39	56.00	26.14	0.21	0.26	QP
11 MAX	3.80	21.83	-24.17	46.00	21.47	0.24	0.12	Average
12	3.80	26.48	-29.52	56.00	26.12	0.24	0.12	QP

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	922.5k	865.817k	866kF1D	915k	863.318k
BT-EDR(2Mbps)	-	-	-	-	-
2.4-2.4835GHz	1.34M	1.244M	1M24G1D	1.32M	1.211M
BT-EDR(3Mbps)	-	-	-	-	-
2.4-2.4835GHz	1.306M	1.239M	1M24G1D	1.276M	1.217M

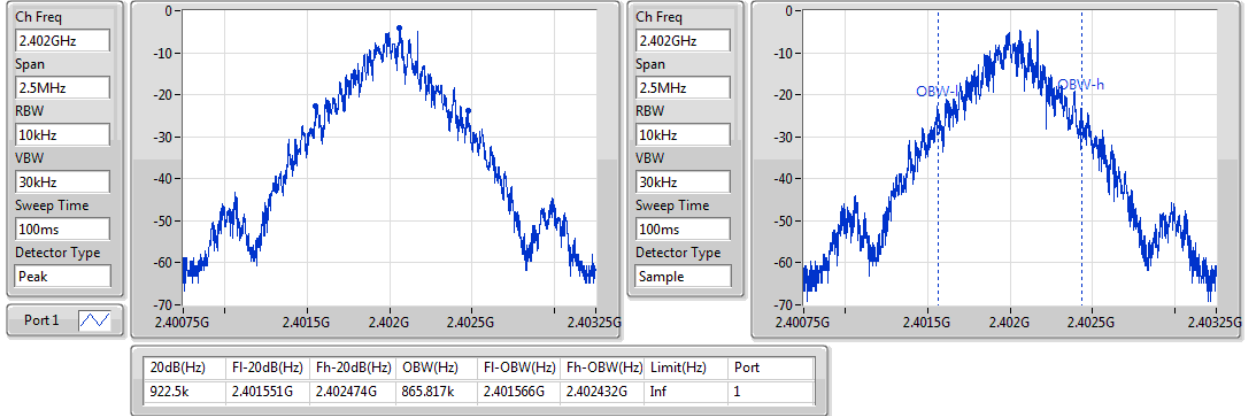
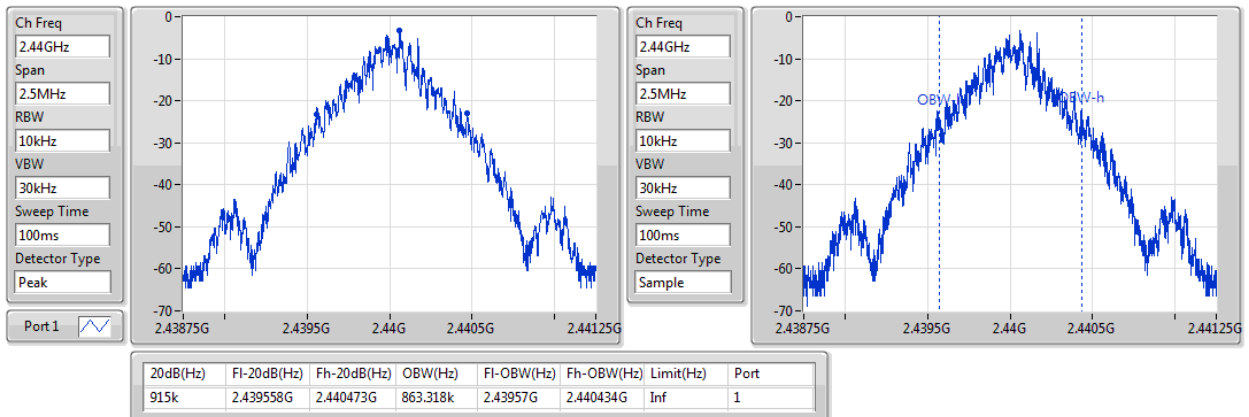
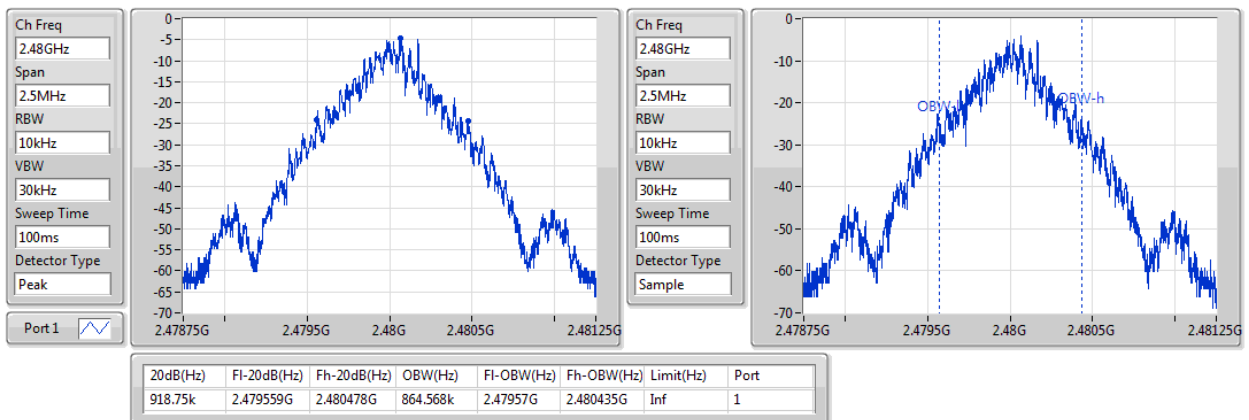
Max-N dB = Maximum 20dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

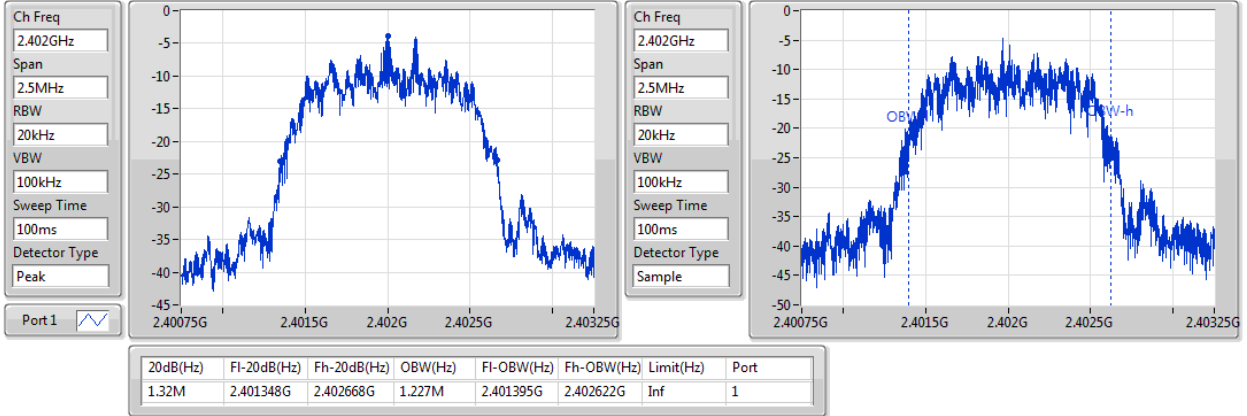
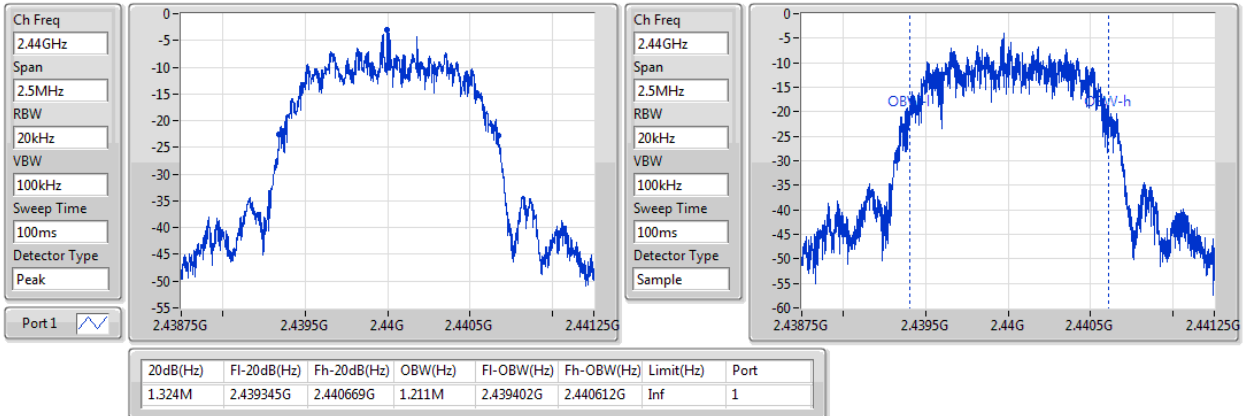
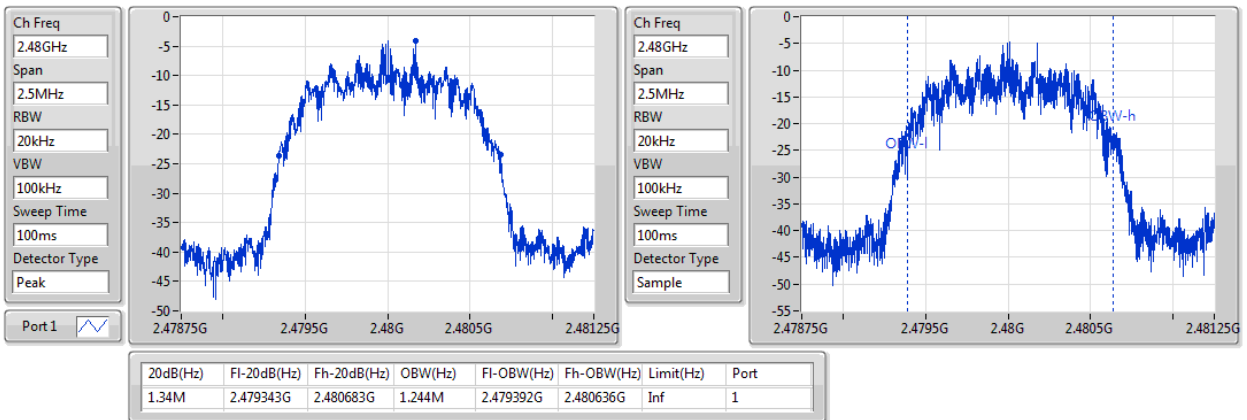
Min-N dB = Minimum 20dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

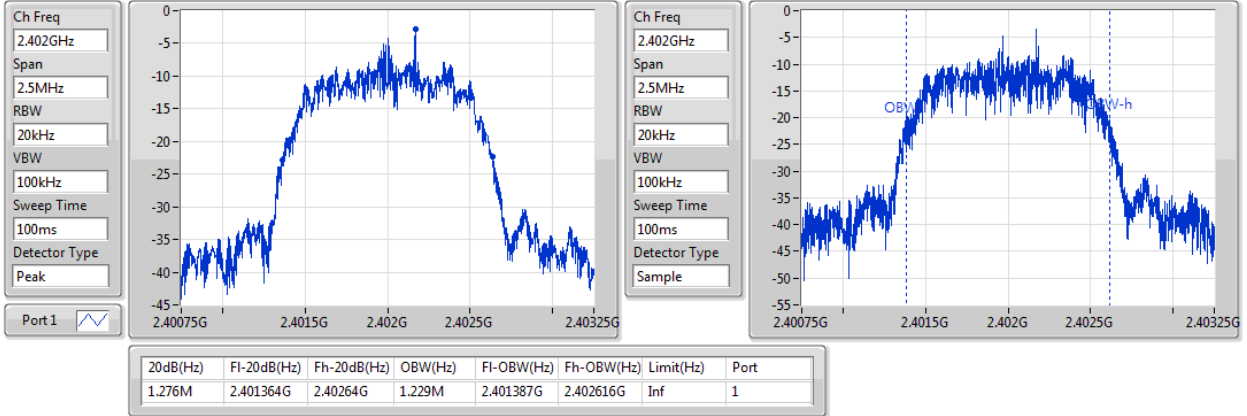
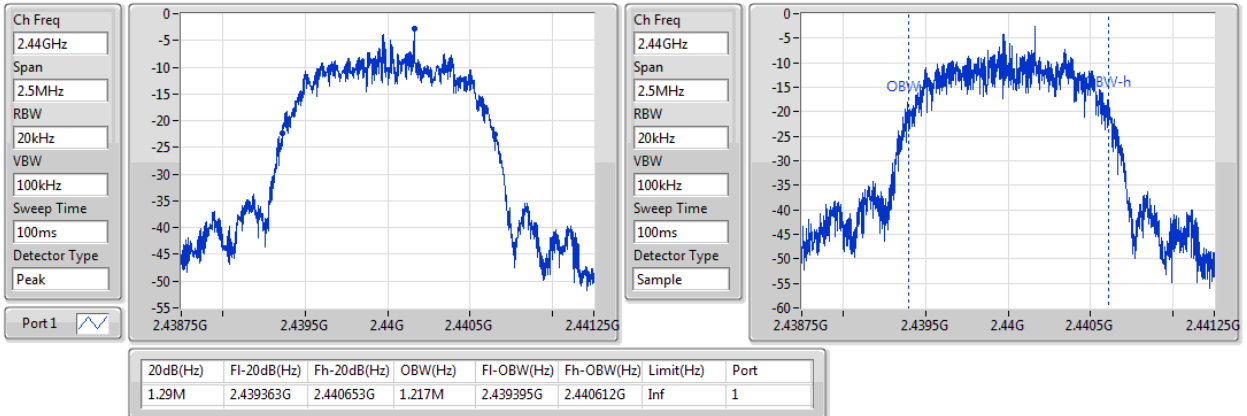
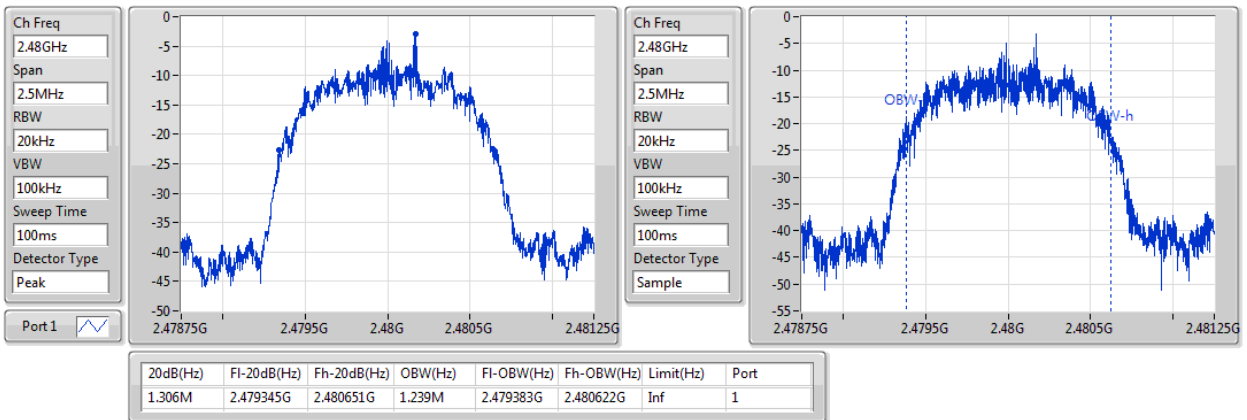
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	922.5k	865.817k
2440MHz_TnomVnom	Pass	Inf	915k	863.318k
2480MHz_TnomVnom	Pass	Inf	918.75k	864.568k
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.32M	1.227M
2440MHz_TnomVnom	Pass	Inf	1.324M	1.211M
2480MHz_TnomVnom	Pass	Inf	1.34M	1.244M
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.276M	1.229M
2440MHz_TnomVnom	Pass	Inf	1.29M	1.217M
2480MHz_TnomVnom	Pass	Inf	1.306M	1.239M

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
2440MHz

BT-BR(1Mbps)
EBW
2480MHz


BT-EDR(2Mbps)
EBW
2402MHz

BT-EDR(2Mbps)
EBW
2440MHz

BT-EDR(2Mbps)
EBW
2480MHz


BT-EDR(3Mbps)
EBW
2402MHz

BT-EDR(3Mbps)
EBW
2440MHz

BT-EDR(3Mbps)
EBW
2480MHz


Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
BT-BR(1Mbps)	-	-
2.4-2.4835GHz	1.17M	1.005M
BT-EDR(2Mbps)	-	-
2.4-2.4835GHz	1.0065M	1.0005M
BT-EDR(3Mbps)	-	-
2.4-2.4835GHz	1.167M	997.5k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.401999G	2.403004G	1.005M	614.385k
2440MHz_TnomVnom	Pass	2.439999G	2.441009G	1.01M	609.39k
2480MHz_TnomVnom	Pass	2.478999G	2.480015G	1.0155M	611.8875k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.401998G	2.403003G	1.005M	879.12k
2440MHz_TnomVnom	Pass	2.439996G	2.441003G	1.0065M	881.784k
2480MHz_TnomVnom	Pass	2.479004G	2.480004G	1.0005M	892.44k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402002G	2.403002G	1.0005M	849.816k
2440MHz_TnomVnom	Pass	2.440004G	2.441004G	1.0005M	859.14k
2480MHz_TnomVnom	Pass	2.479005G	2.480003G	997.5k	869.796k

BT-BR(1Mbps)

Channel Separation

2.402G/2.403GHz



Ff(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.401999G	2.403004G	1.005M	614.385k

BT-BR(1Mbps)

Channel Separation

2.44G/2.441GHz



Ff(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.439999G	2.441009G	1.01M	609.39k

4

BT-BR(1Mbps)

Channel Separation

2.48G/2.479GHz

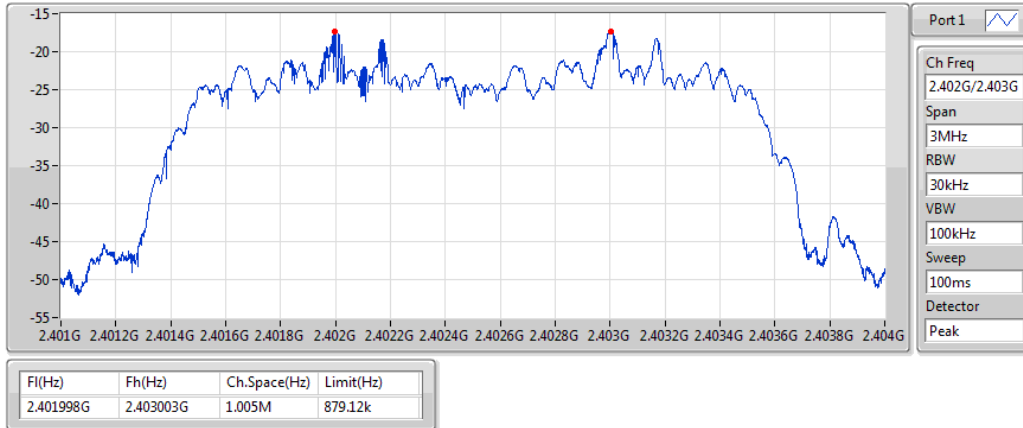


Ff(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.478999G	2.480015G	1.0155M	611.8875k

BT-EDR(2Mbps)

Channel Separation

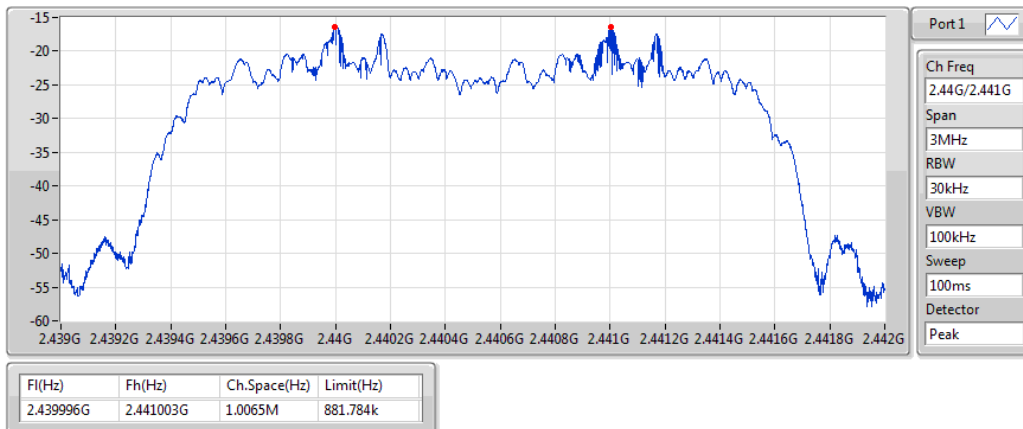
2.402G/2.403GHz



BT-EDR(2Mbps)

Channel Separation

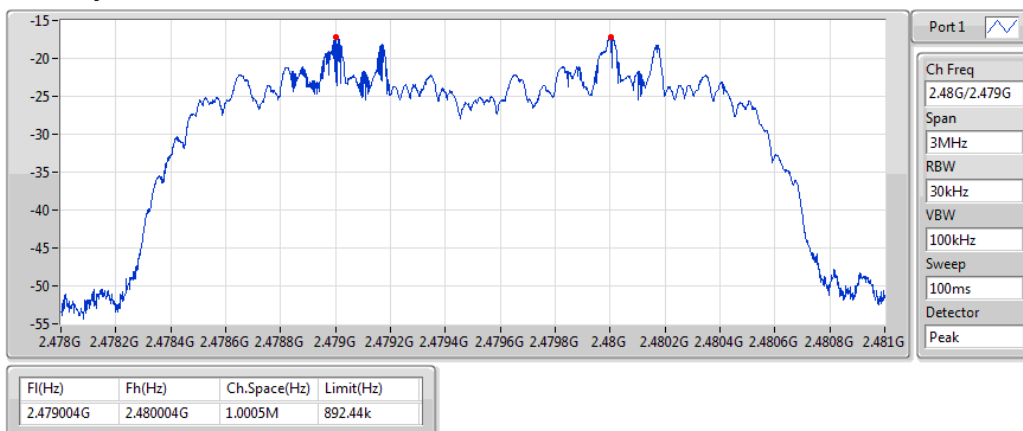
2.44G/2.441GHz



BT-EDR(2Mbps)

Channel Separation

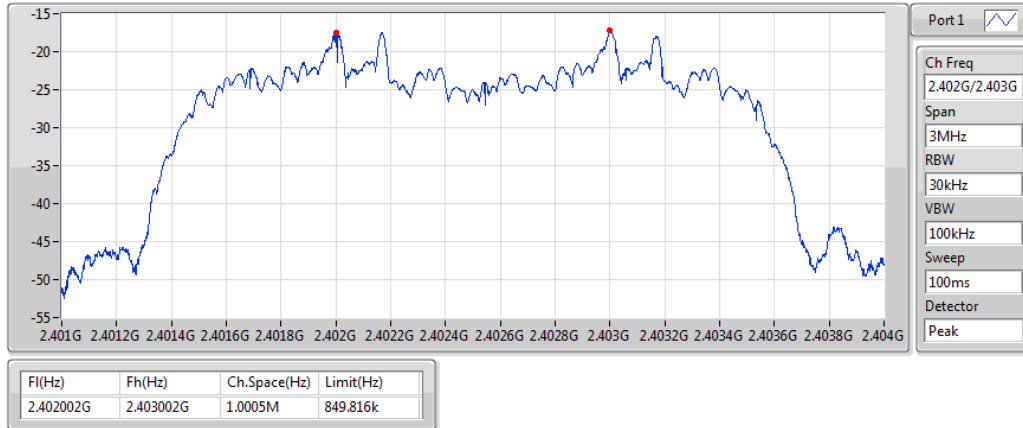
2.48G/2.479GHz



BT-EDR(3Mbps)

Channel Separation

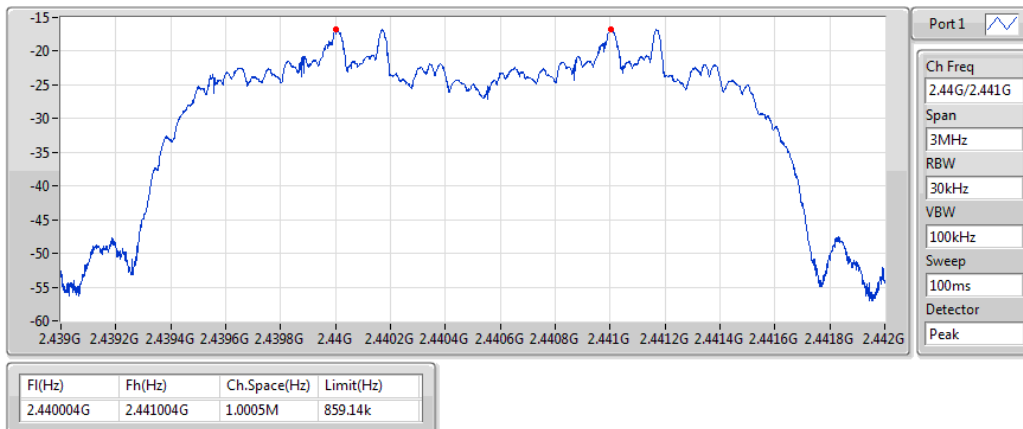
2.402G/2.403GHz



BT-EDR(3Mbps)

Channel Separation

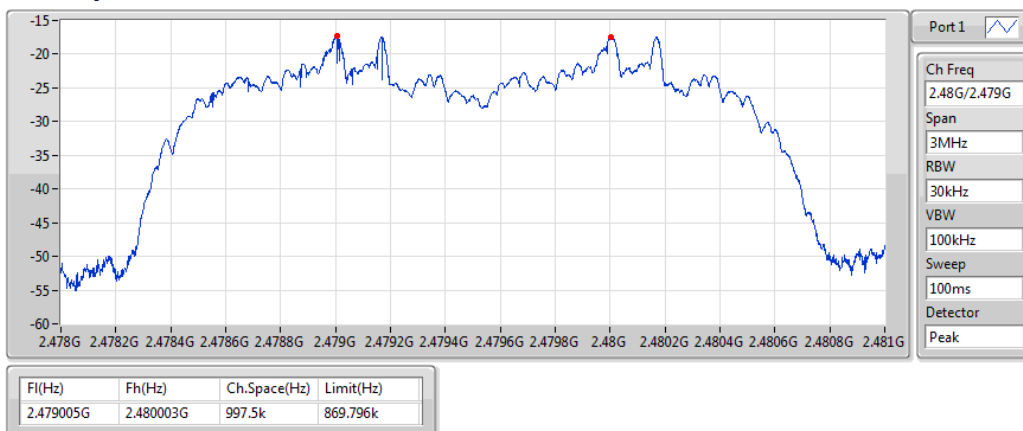
2.44G/2.441GHz



BT-EDR(3Mbps)

Channel Separation

2.48G/2.479GHz



Summary

Mode	Power (dBm)	Power (W)
BT-BR(1Mbps)	-	-
2.4-2.4835GHz	2.29	0.00169
BT-EDR(2Mbps)	-	-
2.4-2.4835GHz	4.39	0.00275
BT-EDR(3Mbps)	-	-
2.4-2.4835GHz	5.12	0.00325

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.29	1.62	21.00
2440MHz_TnomVnom	Pass	3.29	2.29	21.00
2480MHz_TnomVnom	Pass	3.29	1.54	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.29	4.39	21.00
2440MHz_TnomVnom	Pass	3.29	3.92	21.00
2480MHz_TnomVnom	Pass	3.29	2.03	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.29	5.12	21.00
2440MHz_TnomVnom	Pass	3.29	4.28	21.00
2480MHz_TnomVnom	Pass	3.29	1.91	21.00

Summary

Mode	Power	Power
	(dBm)	(W)
BT-BR(1Mbps)	-	-
2.4-2.4835GHz	1.70	0.00148
BT-EDR(2Mbps)	-	-
2.4-2.4835GHz	2.03	0.00160
BT-EDR(3Mbps)	-	-
2.4-2.4835GHz	2.28	0.00169

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.29	0.91	21.00
2440MHz	Pass	3.29	1.70	21.00
2480MHz	Pass	3.29	0.86	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.29	1.89	21.00
2440MHz	Pass	3.29	2.03	21.00
2480MHz	Pass	3.29	1.46	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.29	2.15	21.00
2440MHz	Pass	3.29	2.28	21.00
2480MHz	Pass	3.29	1.68	21.00

Summary

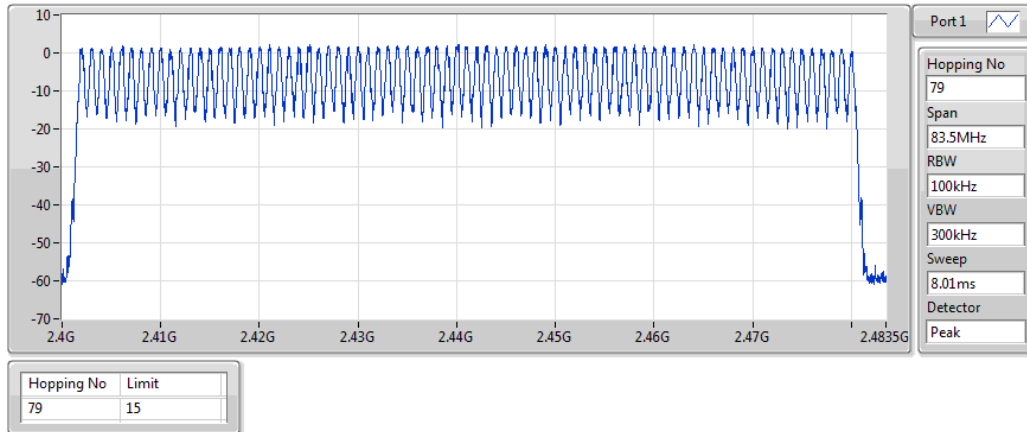
Mode	Max-Hop No
BT-BR(1Mbps)	-
2.4-2.4835GHz	79
BT-EDR(2Mbps)	-
2.4-2.4835GHz	79
BT-EDR(3Mbps)	-
2.4-2.4835GHz	79

Result

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

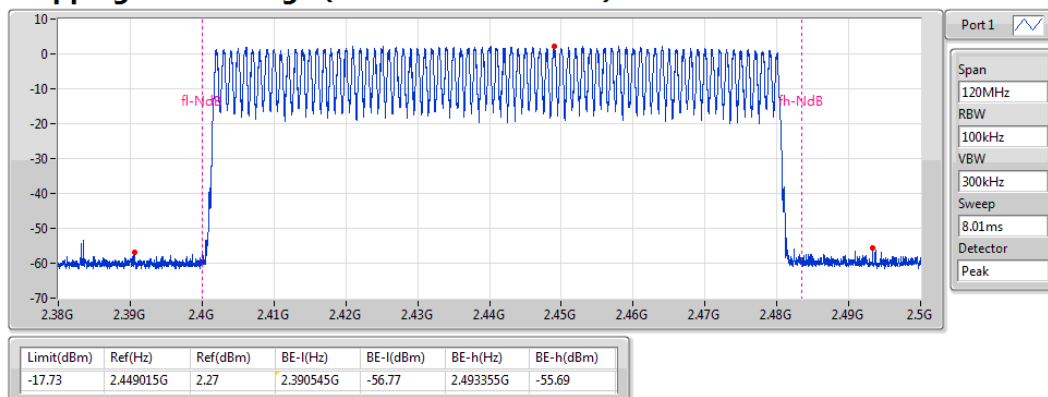
BT-BR(1Mbps) 2440MHz

Hopping Ch



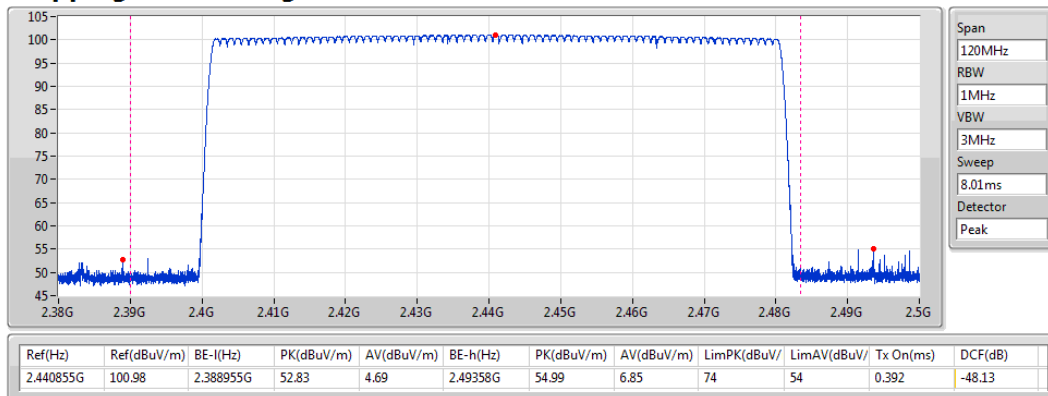
BT-BR(1Mbps) 2440MHz

Hopping Ch Bandedge (Non-restricted Band)



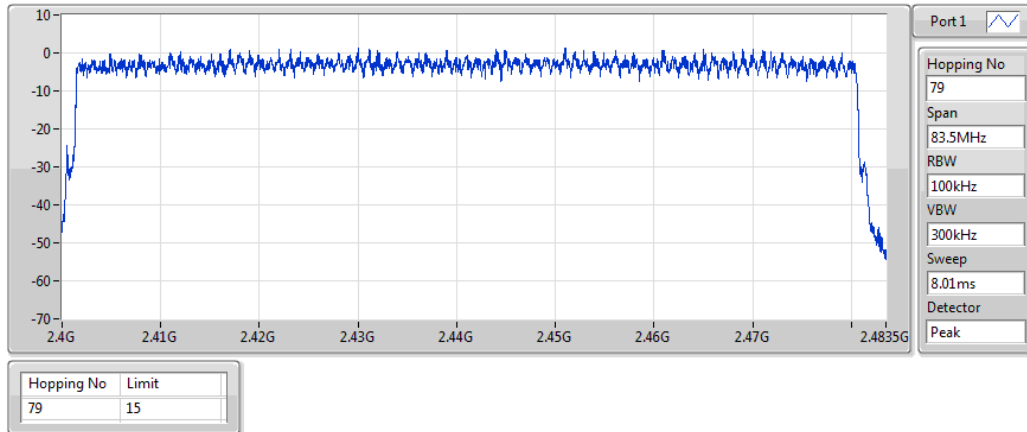
BT-BR(1Mbps) 2440MHz

Hopping Ch Bandedge (Restricted Band)



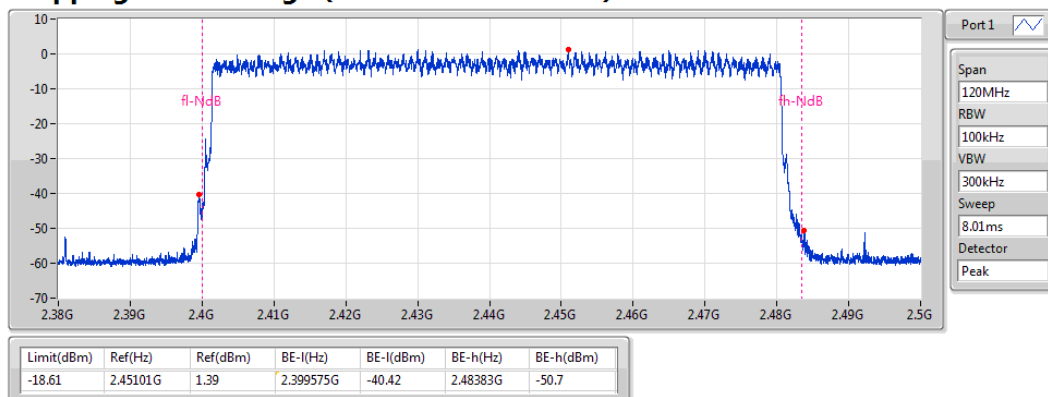
BT-EDR(2Mbps) 2440MHz

Hopping Ch



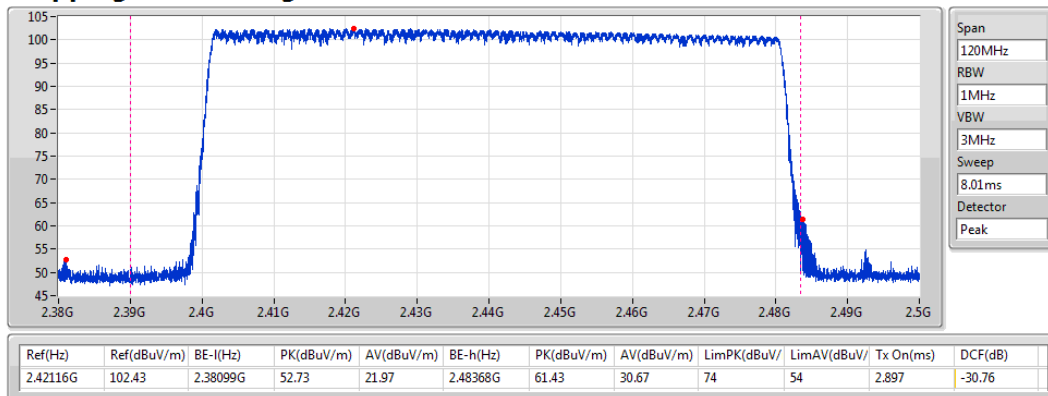
BT-EDR(2Mbps) 2440MHz

Hopping Ch Bandedge (Non-restricted Band)



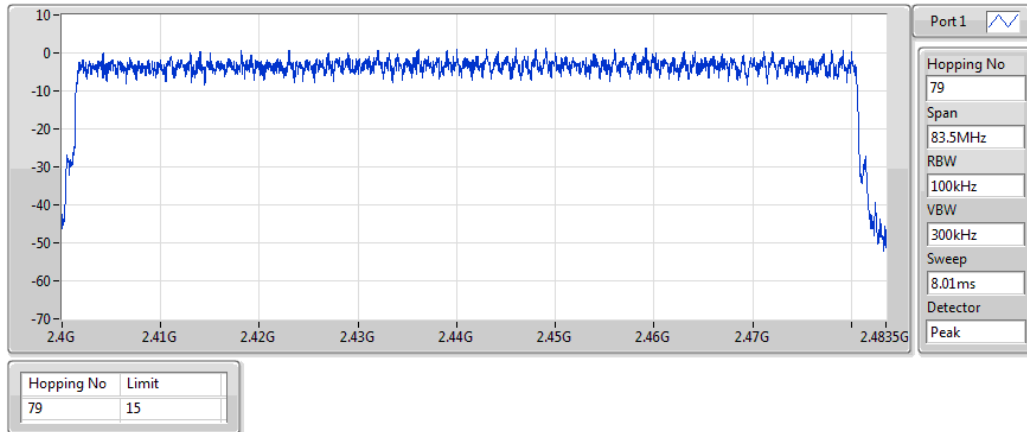
BT-EDR(2Mbps) 2440MHz

Hopping Ch Bandedge (Restricted Band)



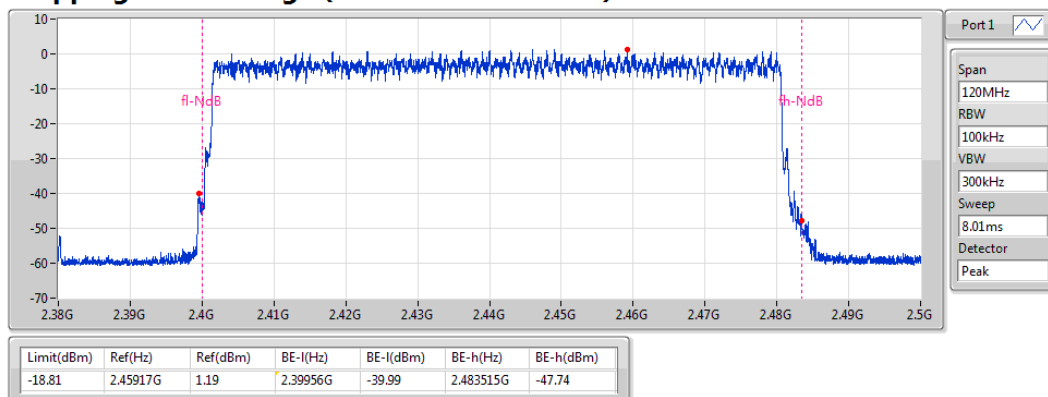
BT-EDR(3Mbps) 2440MHz

Hopping Ch



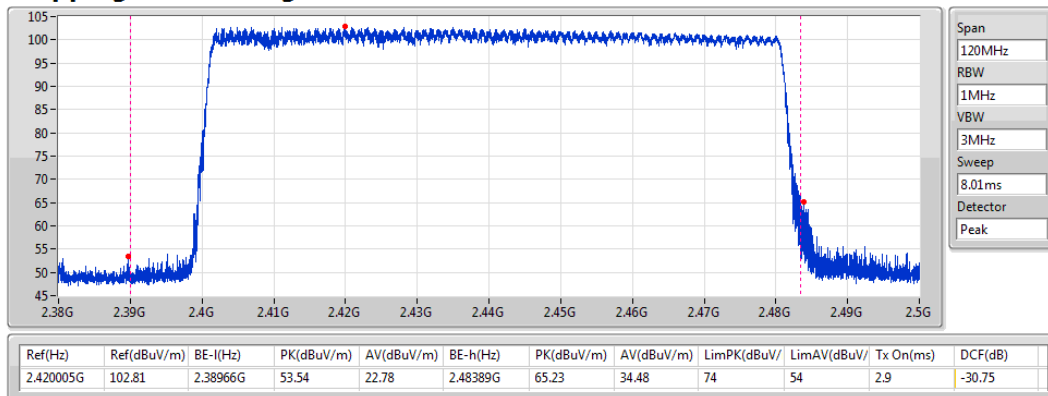
BT-EDR(3Mbps) 2440MHz

Hopping Ch Bandedge (Non-restricted Band)



BT-EDR(3Mbps) 2440MHz

Hopping Ch Bandedge (Restricted Band)



Summary

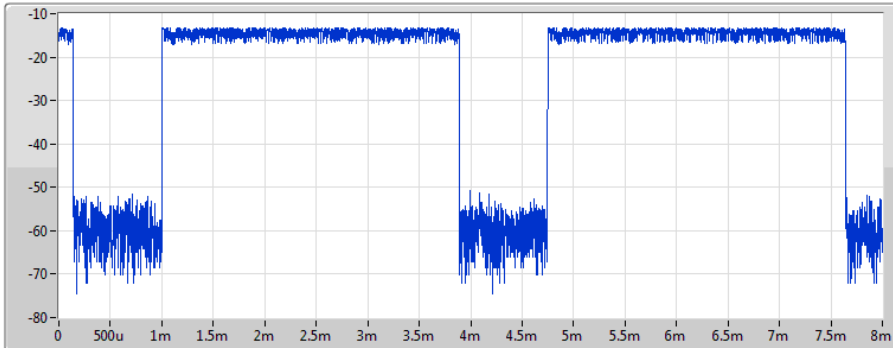
Mode	Max-Dwell (s)
BT-BR(1Mbps)	-
2.4-2.4835GHz	308.7136m
BT-EDR(2Mbps)	-
2.4-2.4835GHz	308.9268m
BT-EDR(3Mbps)	-
2.4-2.4835GHz	309.14m

Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz_TnomVnom	Pass	31.6	308.7136m	400m	2.896m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz_TnomVnom	Pass	31.6	308.9268m	400m	2.898m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz_TnomVnom	Pass	31.6	309.14m	400m	2.9m

BT-BR(1Mbps)

2440MHz



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

Dwell

Port 1 

Ch Freq
2.44GHz

RBW
300kHz

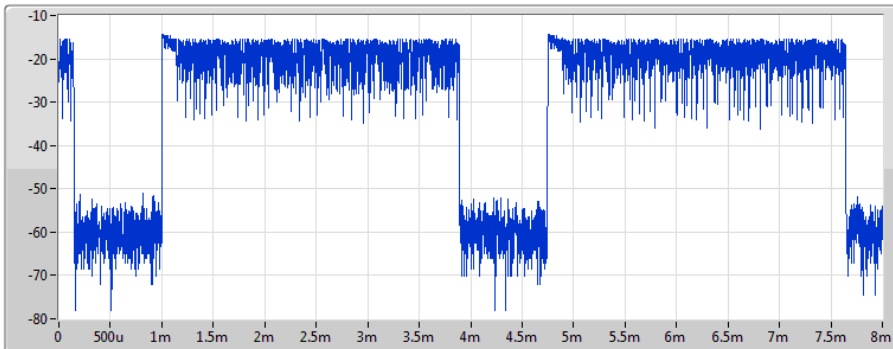
VBW
1MHz

Sweep Time
8ms

TX Time
2.896ms

BT-EDR(2Mbps)

2440MHz



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.9268m	400m	2.898m

Dwell

Port 1 

Ch Freq
2.44GHz

RBW
300kHz

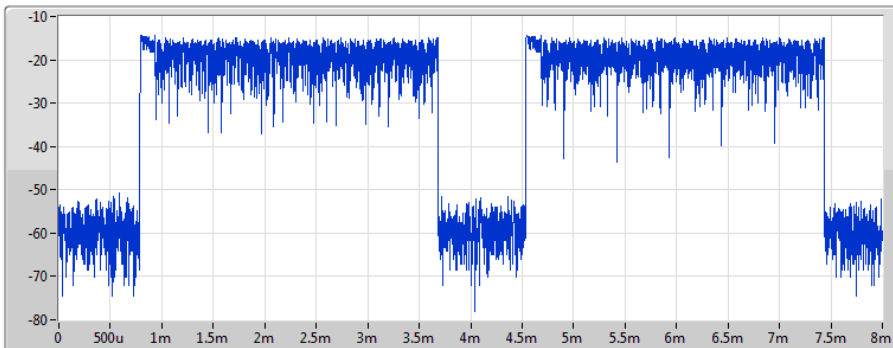
VBW
1MHz

Sweep Time
8ms

TX Time
2.898ms

BT-EDR(3Mbps)

2440MHz



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	309.14m	400m	2.9m

Dwell

Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.9ms

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	2.402004G	-1.87	-21.87	1.833232G	-58.36	2.399532G	-37.37	2.485244G	-58.57	6.949G	-52.49	1

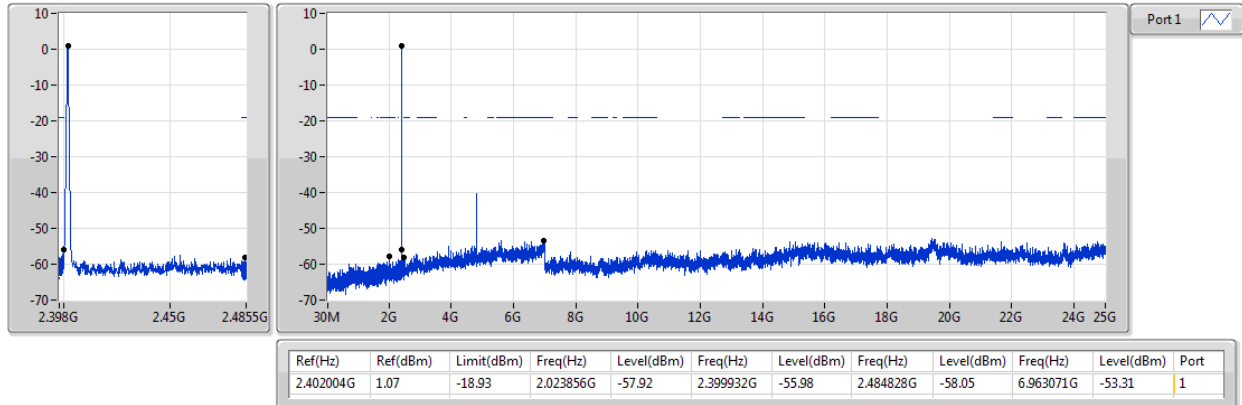
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402004G	1.07	-18.93	2.023856G	-57.92	2.399932G	-55.98	2.484828G	-58.05	6.963071G	-53.31	1
2440MHz_TnomVnom	Pass	2.44008G	1.67	-18.33	1.95992G	-57.72	2.399916G	-59.38	2.485456G	-58.02	6.960257G	-52.90	1
2480MHz_TnomVnom	Pass	2.48016G	0.99	-19.01	1.801264G	-58.60	2.398652G	-58.54	2.485304G	-57.60	17.24094G	-52.78	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.401837G	-0.13	-20.13	2.093712G	-58.37	2.399508G	-37.24	2.483856G	-58.68	24.952157G	-52.95	1
2440MHz_TnomVnom	Pass	2.44008G	-0.72	-20.72	1.996624G	-57.97	2.398224G	-59.86	2.48476G	-57.82	6.977143G	-52.76	1
2480MHz_TnomVnom	Pass	2.479993G	-1.11	-21.11	2.139888G	-59.04	2.398824G	-58.82	2.483668G	-50.24	24.912756G	-52.60	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402004G	-1.87	-21.87	1.833232G	-58.36	2.399532G	-37.37	2.485244G	-58.57	6.949G	-52.49	1
2440MHz_TnomVnom	Pass	2.44008G	-1.06	-21.06	2.061744G	-57.76	2.399912G	-59.36	2.483636G	-58.65	6.957443G	-53.06	1
2480MHz_TnomVnom	Pass	2.479993G	-1.54	-21.54	1.791792G	-59.17	2.399504G	-58.41	2.483536G	-46.89	6.985586G	-52.03	1

BT-BR(1Mbps)

CSE NdB

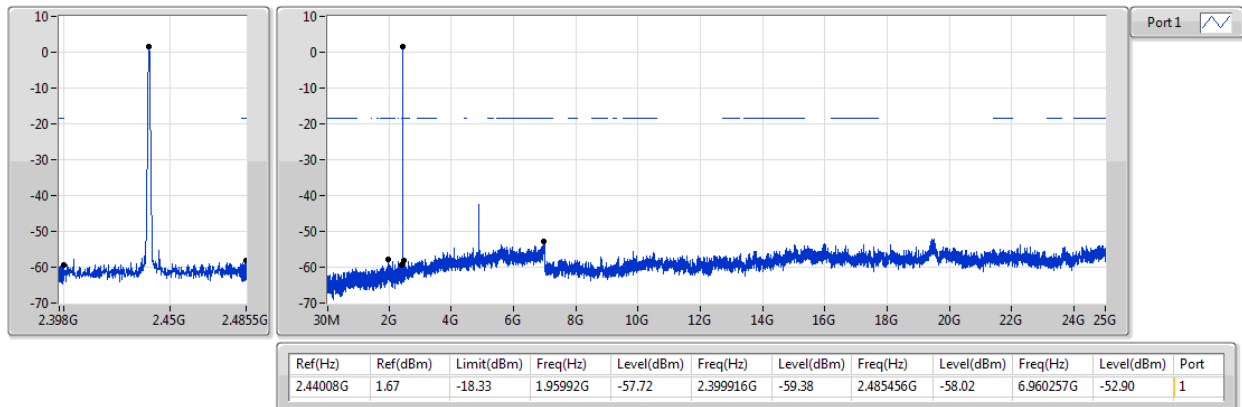
2402MHz



BT-BR(1Mbps)

CSE NdB

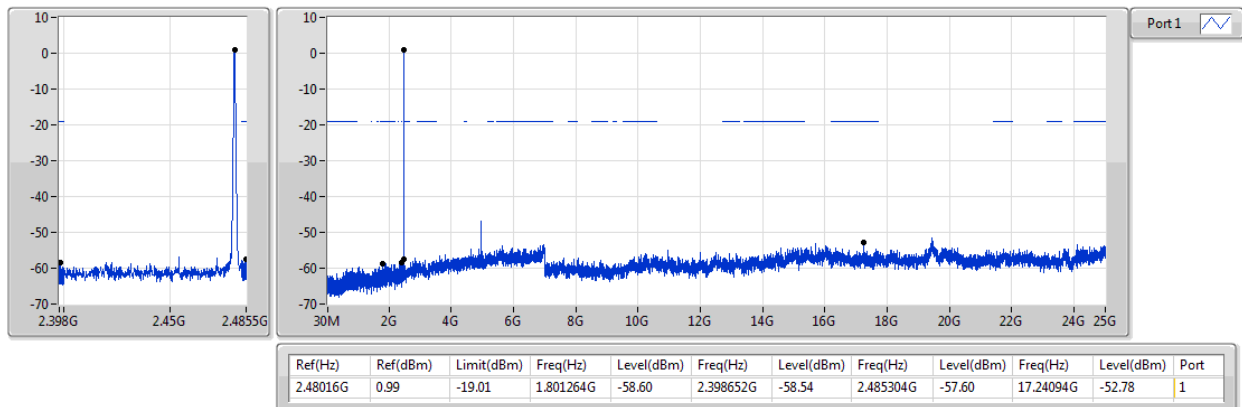
2440MHz



BT-BR(1Mbps)

CSE NdB

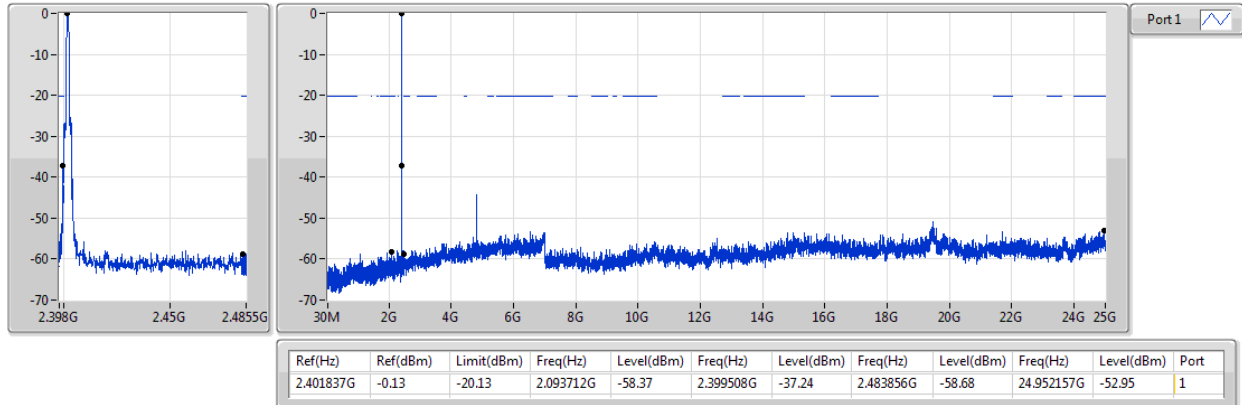
2480MHz



BT-EDR(2Mbps)

CSE NdB

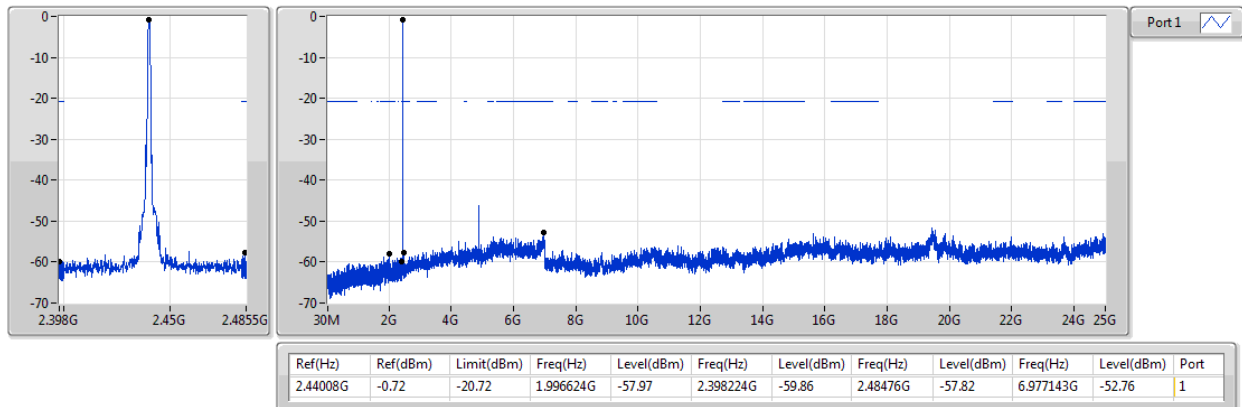
2402MHz



BT-EDR(2Mbps)

CSE NdB

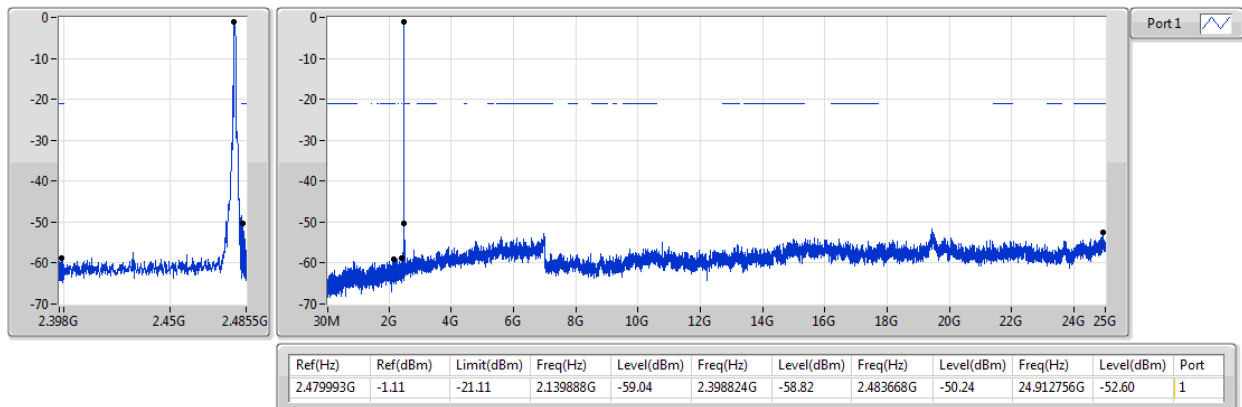
2440MHz



BT-EDR(2Mbps)

CSE NdB

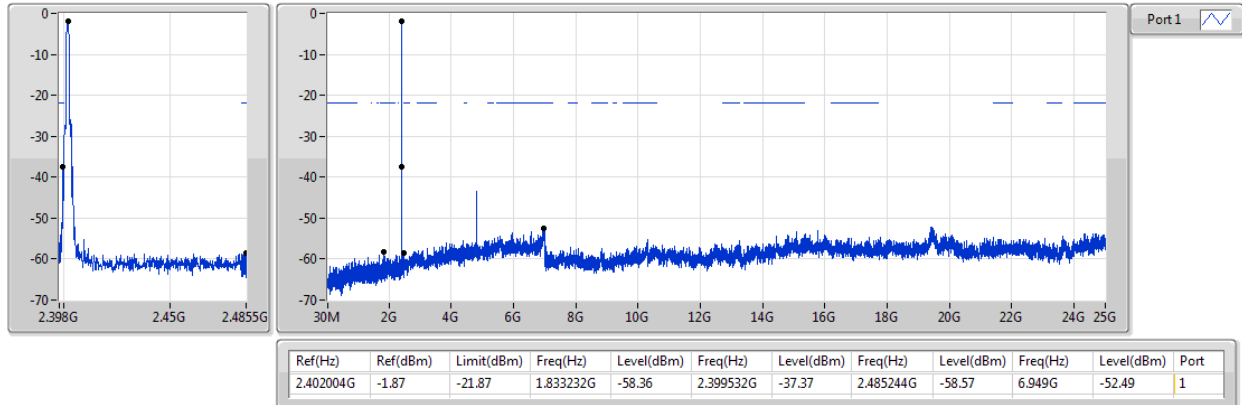
2480MHz



BT-EDR(3Mbps)

CSE NdB

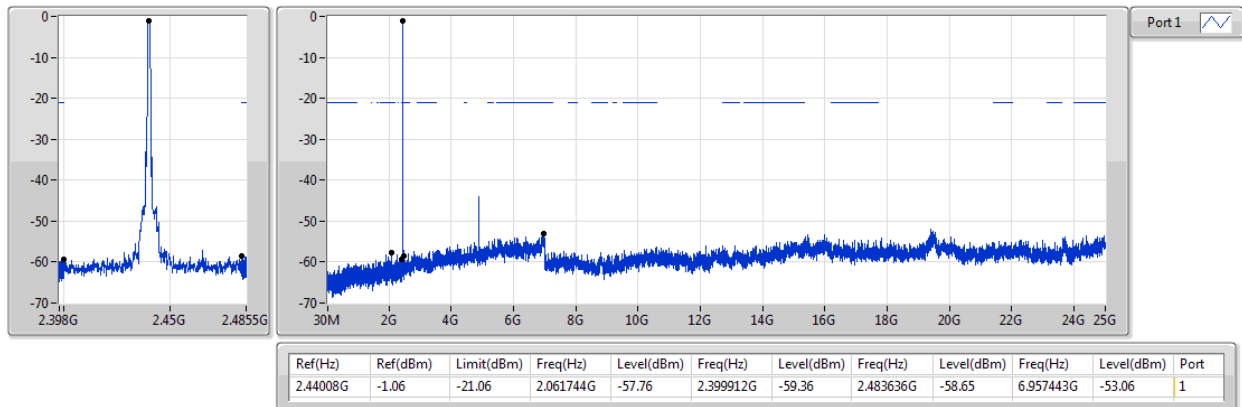
2402MHz



BT-EDR(3Mbps)

CSE NdB

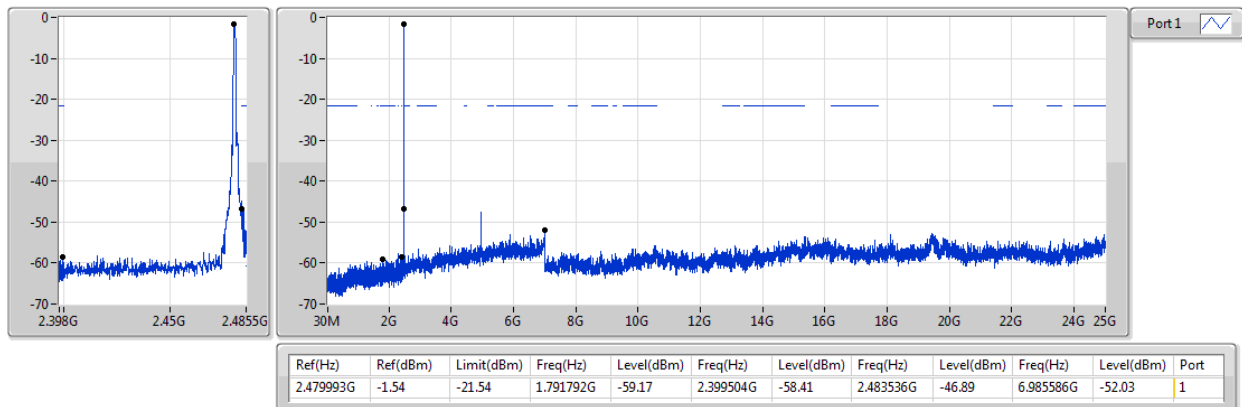
2440MHz



BT-EDR(3Mbps)

CSE NdB

2480MHz



**Summary**

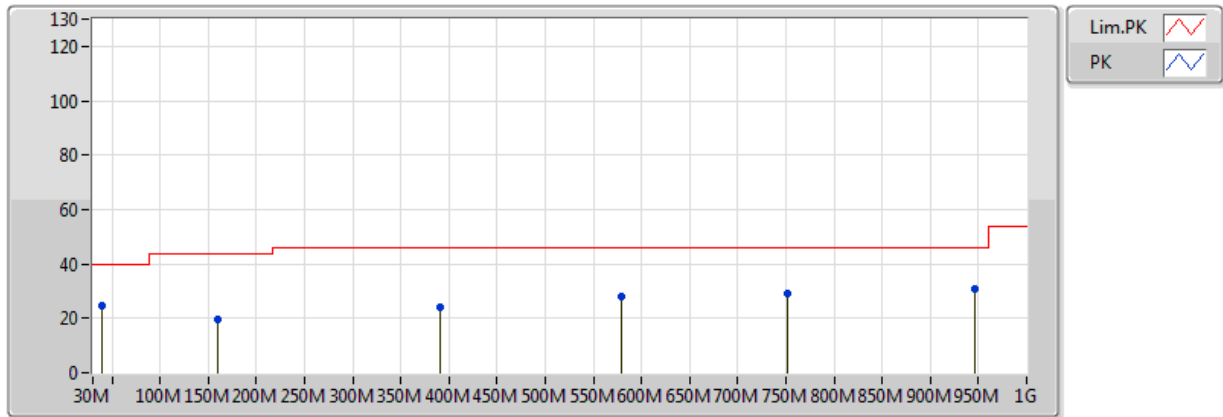
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	PK	809.88M	31.22	46.00	-14.78	2.20	3	H	360	1.00	-

Result

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-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	30M	23.05	40.00	-16.95	-4.62	3	H	360	1.00	-
2440MHz	Pass	PK	258.92M	21.50	46.00	-24.50	-5.60	3	H	360	1.00	-
2440MHz	Pass	PK	367.56M	24.11	46.00	-21.89	-3.95	3	H	360	1.00	-
2440MHz	Pass	PK	540.22M	27.82	46.00	-18.18	-0.29	3	H	360	1.00	-
2440MHz	Pass	PK	751.68M	29.07	46.00	-16.93	1.40	3	H	360	1.00	-
2440MHz	Pass	PK	809.88M	31.22	46.00	-14.78	2.20	3	H	360	1.00	-
2440MHz	Pass	PK	39.7M	24.71	40.00	-15.29	-8.77	3	V	0	1.00	-
2440MHz	Pass	PK	159.98M	19.48	43.50	-24.02	-9.92	3	V	0	1.00	-
2440MHz	Pass	PK	390.84M	24.15	46.00	-21.85	-3.31	3	V	0	1.00	-
2440MHz	Pass	PK	579.02M	28.09	46.00	-17.91	-0.14	3	V	0	1.00	-
2440MHz	Pass	PK	751.68M	29.11	46.00	-16.89	1.40	3	V	0	1.00	-
2440MHz	Pass	PK	945.68M	31.09	46.00	-14.91	3.77	3	V	0	1.00	-

BT-EDR(3Mbps)

2440MHz_DC power Mode

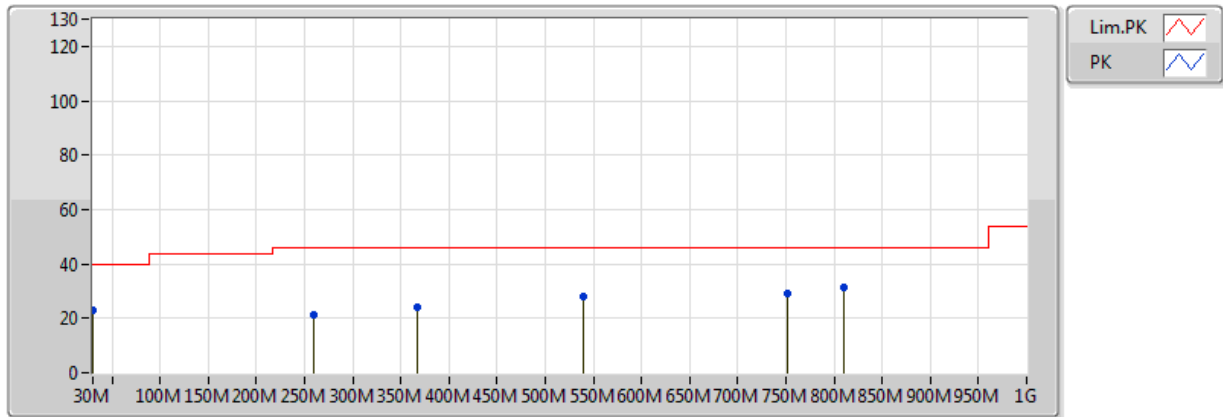


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	39.7M	24.71	40.00	-15.29	-8.77	3	V	0	1.00	-
PK	159.98M	19.48	43.50	-24.02	-9.92	3	V	0	1.00	-
PK	390.84M	24.15	46.00	-21.85	-3.31	3	V	0	1.00	-
PK	579.02M	28.09	46.00	-17.91	-0.14	3	V	0	1.00	-
PK	751.68M	29.11	46.00	-16.89	1.40	3	V	0	1.00	-
PK	945.68M	31.09	46.00	-14.91	3.77	3	V	0	1.00	-

BT-EDR(3Mbps)

2440MHz_DC power Mode



EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	30M	23.05	40.00	-16.95	-4.62	3	H	360	1.00	-
PK	258.92M	21.50	46.00	-24.50	-5.60	3	H	360	1.00	-
PK	367.56M	24.11	46.00	-21.89	-3.95	3	H	360	1.00	-
PK	540.22M	27.82	46.00	-18.18	-0.29	3	H	360	1.00	-
PK	751.68M	29.07	46.00	-16.93	1.40	3	H	360	1.00	-
PK	809.88M	31.22	46.00	-14.78	2.20	3	H	360	1.00	-

**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-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.483502G	46.64	54.00	-7.36	31.78	3	H	46	1.01	-

Result

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)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3562G	45.11	54.00	-8.89	31.33	3	H	41	1.37	-
2402MHz	Pass	AV	2.402G	87.08	Inf	-Inf	31.49	3	H	41	1.37	-
2402MHz	Pass	PK	2.3524G	59.39	74.00	-14.61	31.31	3	H	41	1.37	-
2402MHz	Pass	PK	2.402G	98.85	Inf	-Inf	31.49	3	H	41	1.37	-
2402MHz	Pass	AV	2.3898G	45.09	54.00	-8.91	31.44	3	V	267	2.78	-
2402MHz	Pass	AV	2.402G	82.20	Inf	-Inf	31.49	3	V	267	2.78	-
2402MHz	Pass	PK	2.3742G	58.64	74.00	-15.36	31.39	3	V	267	2.78	-
2402MHz	Pass	PK	2.4018G	92.66	Inf	-Inf	31.49	3	V	267	2.78	-
2440MHz	Pass	AV	2.3408G	45.14	54.00	-8.86	31.27	3	H	27	1.01	-
2440MHz	Pass	AV	2.44G	84.84	Inf	-Inf	31.62	3	H	27	1.01	-
2440MHz	Pass	AV	2.4996G	46.13	54.00	-7.87	31.84	3	H	27	1.01	-
2440MHz	Pass	PK	2.3524G	58.57	74.00	-15.43	31.31	3	H	27	1.01	-
2440MHz	Pass	PK	2.44G	95.92	Inf	-Inf	31.62	3	H	27	1.01	-
2440MHz	Pass	PK	2.488G	59.55	74.00	-14.45	31.80	3	H	27	1.01	-
2440MHz	Pass	AV	2.3408G	45.15	54.00	-8.85	31.27	3	V	299	3.04	-
2440MHz	Pass	AV	2.44G	78.80	Inf	-Inf	31.62	3	V	299	3.04	-
2440MHz	Pass	AV	2.4972G	46.13	54.00	-7.87	31.83	3	V	299	3.04	-
2440MHz	Pass	PK	2.3688G	58.97	74.00	-15.03	31.37	3	V	299	3.04	-
2440MHz	Pass	PK	2.4404G	88.43	Inf	-Inf	31.63	3	V	299	3.04	-
2440MHz	Pass	PK	2.4984G	60.17	74.00	-13.83	31.83	3	V	299	3.04	-
2480MHz	Pass	AV	2.48G	83.49	Inf	-Inf	31.77	3	H	32	1.01	-
2480MHz	Pass	AV	2.499G	46.12	54.00	-7.88	31.84	3	H	32	1.01	-
2480MHz	Pass	PK	2.4798G	94.20	Inf	-Inf	31.77	3	H	32	1.01	-
2480MHz	Pass	PK	2.4984G	60.00	74.00	-14.00	31.83	3	H	32	1.01	-
2480MHz	Pass	AV	2.48G	76.49	Inf	-Inf	31.77	3	V	164	3.00	-
2480MHz	Pass	AV	2.4992G	46.13	54.00	-7.87	31.84	3	V	164	3.00	-
2480MHz	Pass	PK	2.4802G	85.37	Inf	-Inf	31.77	3	V	164	3.00	-
2480MHz	Pass	PK	2.4862G	59.75	74.00	-14.25	31.79	3	V	164	3.00	-
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3522G	45.15	54.00	-8.85	31.31	3	H	40	1.38	-
2402MHz	Pass	AV	2.402G	84.75	Inf	-Inf	31.49	3	H	40	1.38	-
2402MHz	Pass	PK	2.381G	59.45	74.00	-14.55	31.41	3	H	40	1.38	-
2402MHz	Pass	PK	2.4018G	99.96	Inf	-Inf	31.49	3	H	40	1.38	-
2402MHz	Pass	AV	2.39G	45.16	54.00	-8.84	31.45	3	V	23	1.50	-
2402MHz	Pass	AV	2.402G	74.15	Inf	-Inf	31.49	3	V	23	1.50	-
2402MHz	Pass	PK	2.3678G	59.13	74.00	-14.87	31.37	3	V	23	1.50	-
2402MHz	Pass	PK	2.402G	86.67	Inf	-Inf	31.49	3	V	23	1.50	-
2440MHz	Pass	AV	2.3408G	45.18	54.00	-8.82	31.27	3	H	43	1.00	-
2440MHz	Pass	AV	2.44G	82.85	Inf	-Inf	31.62	3	H	43	1.00	-
2440MHz	Pass	AV	2.4948G	46.14	54.00	-7.86	31.82	3	H	43	1.00	-
2440MHz	Pass	PK	2.3556G	60.54	74.00	-13.46	31.32	3	H	43	1.00	-
2440MHz	Pass	PK	2.44G	97.49	Inf	-Inf	31.62	3	H	43	1.00	-
2440MHz	Pass	PK	2.4928G	59.18	74.00	-14.82	31.81	3	H	43	1.00	-
2440MHz	Pass	AV	2.3404G	45.20	54.00	-8.80	31.27	3	V	310	3.03	-
2440MHz	Pass	AV	2.44G	76.75	Inf	-Inf	31.62	3	V	310	3.03	-
2440MHz	Pass	AV	2.4996G	46.13	54.00	-7.87	31.84	3	V	310	3.03	-
2440MHz	Pass	PK	2.388G	59.18	74.00	-14.82	31.44	3	V	310	3.03	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	PK	2.44G	89.78	Inf	-Inf	31.62	3	V	310	3.03	-
2440MHz	Pass	PK	2.4884G	59.06	74.00	-14.94	31.80	3	V	310	3.03	-
2480MHz	Pass	AV	2.48G	81.32	Inf	-Inf	31.77	3	H	32	1.01	-
2480MHz	Pass	AV	2.483502G	46.51	54.00	-7.49	31.78	3	H	32	1.01	-
2480MHz	Pass	PK	2.48G	94.80	Inf	-Inf	31.77	3	H	32	1.01	-
2480MHz	Pass	PK	2.4928G	60.15	74.00	-13.85	31.81	3	H	32	1.01	-
2480MHz	Pass	AV	2.48G	74.96	Inf	-Inf	31.77	3	V	310	3.33	-
2480MHz	Pass	AV	2.4842G	46.14	54.00	-7.86	31.78	3	V	310	3.33	-
2480MHz	Pass	PK	2.48G	86.75	Inf	-Inf	31.77	3	V	310	3.33	-
2480MHz	Pass	PK	2.4836G	60.30	74.00	-13.70	31.78	3	V	310	3.33	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3522G	45.17	54.00	-8.83	31.31	3	H	0	1.50	-
2402MHz	Pass	AV	2.402G	84.58	Inf	-Inf	31.49	3	H	0	1.50	-
2402MHz	Pass	AV	4.804G	42.43	54.00	-11.57	6.43	3	H	181	2.89	-
2402MHz	Pass	PK	2.3624G	58.86	74.00	-15.14	31.35	3	H	0	1.50	-
2402MHz	Pass	PK	2.402G	100.48	Inf	-Inf	31.49	3	H	0	1.50	-
2402MHz	Pass	PK	4.804G	51.53	74.00	-22.47	6.43	3	H	181	2.89	-
2402MHz	Pass	AV	2.3766G	45.10	54.00	-8.90	31.40	3	V	22	1.51	-
2402MHz	Pass	AV	2.402G	74.48	Inf	-Inf	31.49	3	V	22	1.51	-
2402MHz	Pass	AV	4.804G	36.93	54.00	-17.07	6.43	3	V	261	1.50	-
2402MHz	Pass	PK	2.3678G	59.00	74.00	-15.00	31.37	3	V	22	1.51	-
2402MHz	Pass	PK	2.402G	87.63	Inf	-Inf	31.49	3	V	22	1.51	-
2402MHz	Pass	PK	4.804G	48.43	74.00	-25.57	6.43	3	V	261	1.50	-
2440MHz	Pass	AV	2.34G	45.18	54.00	-8.82	31.27	3	H	33	1.12	-
2440MHz	Pass	AV	2.44G	82.81	Inf	-Inf	31.62	3	H	33	1.12	-
2440MHz	Pass	AV	2.4996G	46.10	54.00	-7.90	31.84	3	H	33	1.12	-
2440MHz	Pass	AV	4.88G	45.12	54.00	-8.88	6.62	3	H	181	2.34	-
2440MHz	Pass	PK	2.3824G	59.39	74.00	-14.61	31.42	3	H	33	1.12	-
2440MHz	Pass	PK	2.44G	98.03	Inf	-Inf	31.62	3	H	33	1.12	-
2440MHz	Pass	PK	2.4864G	59.00	74.00	-15.00	31.79	3	H	33	1.12	-
2440MHz	Pass	PK	4.88G	53.02	74.00	-20.98	6.62	3	H	181	2.34	-
2440MHz	Pass	AV	2.34G	45.17	54.00	-8.83	31.27	3	V	311	3.05	-
2440MHz	Pass	AV	2.44G	76.52	Inf	-Inf	31.62	3	V	311	3.05	-
2440MHz	Pass	AV	2.4952G	46.10	54.00	-7.90	31.82	3	V	311	3.05	-
2440MHz	Pass	AV	4.88G	39.12	54.00	-14.88	6.62	3	V	0	1.00	-
2440MHz	Pass	PK	2.3772G	59.33	74.00	-14.67	31.40	3	V	311	3.05	-
2440MHz	Pass	PK	2.44G	90.41	Inf	-Inf	31.62	3	V	311	3.05	-
2440MHz	Pass	PK	2.4872G	59.75	74.00	-14.25	31.79	3	V	311	3.05	-
2440MHz	Pass	PK	4.88G	49.12	74.00	-24.88	6.62	3	V	0	1.00	-
2480MHz	Pass	AV	2.48G	81.47	Inf	-Inf	31.77	3	H	46	1.01	-
2480MHz	Pass	AV	2.483502G	46.64	54.00	-7.36	31.78	3	H	46	1.01	-
2480MHz	Pass	AV	4.96G	45.62	54.00	-8.38	6.82	3	H	182	1.05	-
2480MHz	Pass	PK	2.48G	95.37	Inf	-Inf	31.77	3	H	46	1.01	-
2480MHz	Pass	PK	2.484G	61.05	74.00	-12.95	31.78	3	H	46	1.01	-
2480MHz	Pass	PK	4.96G	53.82	74.00	-20.18	6.82	3	H	182	1.05	-
2480MHz	Pass	AV	2.48G	74.88	Inf	-Inf	31.77	3	V	308	3.69	-
2480MHz	Pass	AV	2.483502G	46.17	54.00	-7.83	31.78	3	V	308	3.69	-
2480MHz	Pass	AV	4.96G	40.52	54.00	-13.48	6.82	3	V	358	2.31	-
2480MHz	Pass	PK	2.48G	86.94	Inf	-Inf	31.77	3	V	308	3.69	-



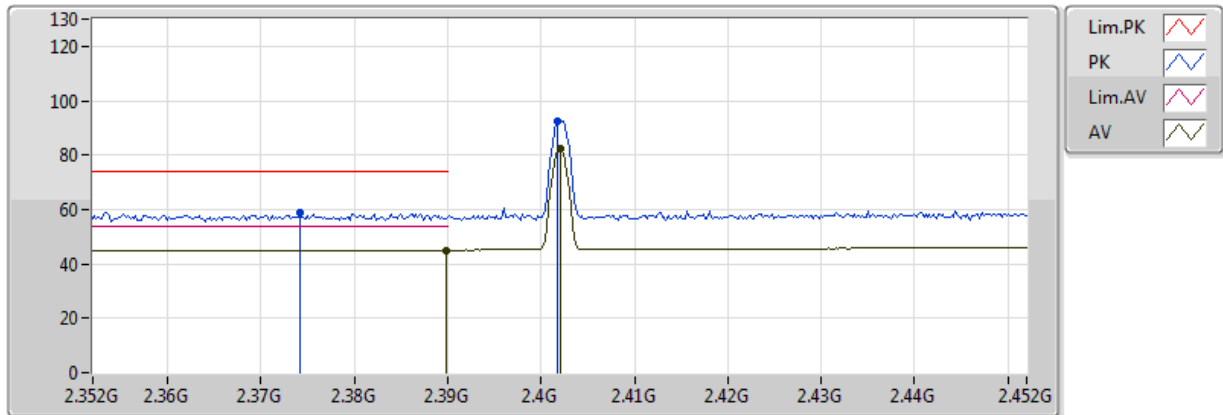
RSE TX above 1GHz Result

Appendix G.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
2480MHz	Pass	PK	2.4978G	61.06	74.00	-12.94	31.83	3	V	308	3.69	-
2480MHz	Pass	PK	4.96G	50.62	74.00	-23.38	6.82	3	V	358	2.31	-

BT-BR(1Mbps)

2402MHz_TX

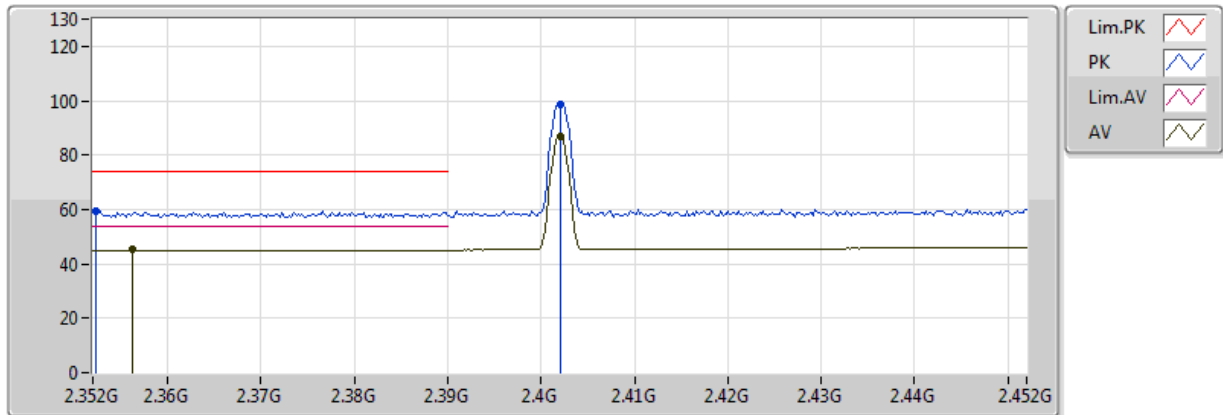


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	45.09	54.00	-8.91	31.44	3	V	267	2.78	-
AV	2.402G	82.20	Inf	-Inf	31.49	3	V	267	2.78	-
PK	2.3742G	58.64	74.00	-15.36	31.39	3	V	267	2.78	-
PK	2.4018G	92.66	Inf	-Inf	31.49	3	V	267	2.78	-

BT-BR(1Mbps)

2402MHz_TX

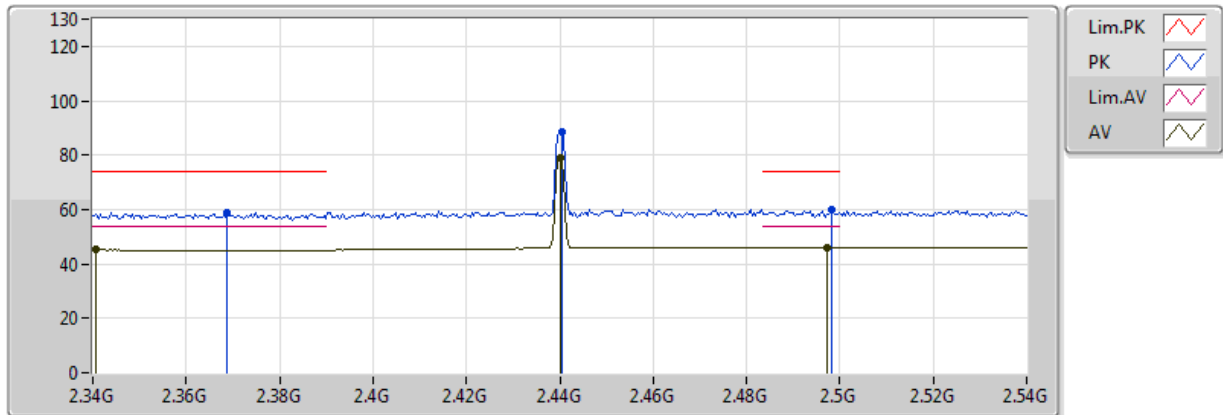


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3562G	45.11	54.00	-8.89	31.33	3	H	41	1.37	-
AV	2.402G	87.08	Inf	-Inf	31.49	3	H	41	1.37	-
PK	2.3524G	59.39	74.00	-14.61	31.31	3	H	41	1.37	-
PK	2.402G	98.85	Inf	-Inf	31.49	3	H	41	1.37	-

BT-BR(1Mbps)

2440MHz_TX

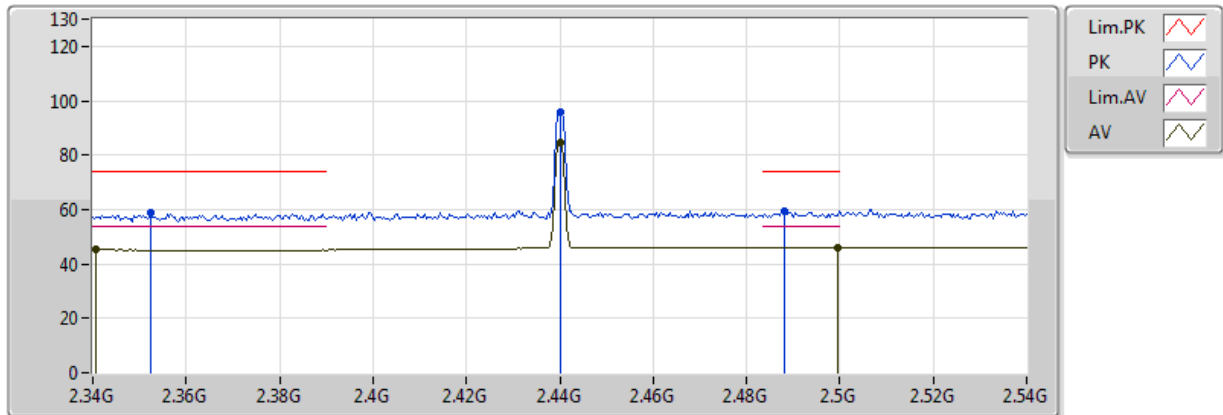


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3408G	45.15	54.00	-8.85	31.27	3	V	299	3.04	-
AV	2.4972G	46.13	54.00	-7.87	31.83	3	V	299	3.04	-
AV	2.44G	78.80	Inf	-Inf	31.62	3	V	299	3.04	-
PK	2.3688G	58.97	74.00	-15.03	31.37	3	V	299	3.04	-
PK	2.4984G	60.17	74.00	-13.83	31.83	3	V	299	3.04	-
PK	2.4404G	88.43	Inf	-Inf	31.63	3	V	299	3.04	-

BT-BR(1Mbps)

2440MHz_TX

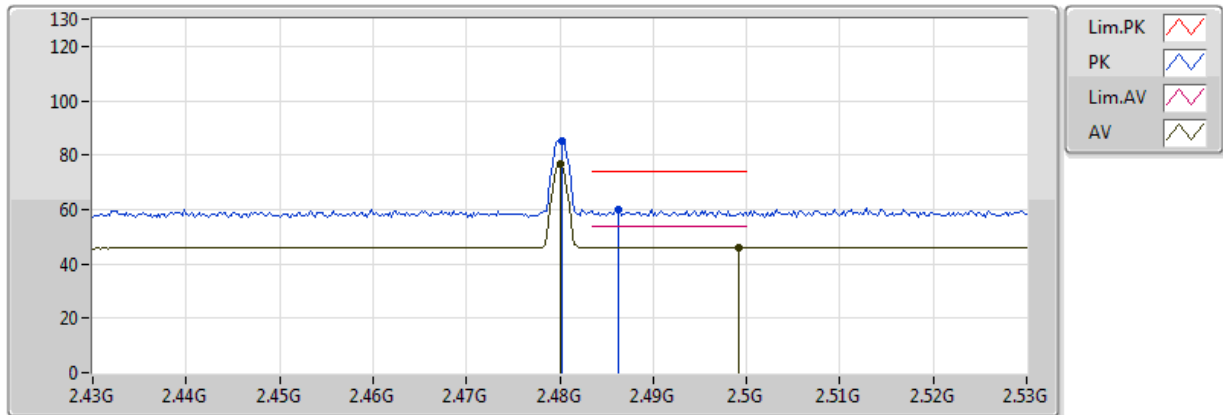


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3408G	45.14	54.00	-8.86	31.27	3	H	27	1.01	-
AV	2.4996G	46.13	54.00	-7.87	31.84	3	H	27	1.01	-
AV	2.44G	84.84	Inf	-Inf	31.62	3	H	27	1.01	-
PK	2.3524G	58.57	74.00	-15.43	31.31	3	H	27	1.01	-
PK	2.488G	59.55	74.00	-14.45	31.80	3	H	27	1.01	-
PK	2.44G	95.92	Inf	-Inf	31.62	3	H	27	1.01	-

BT-BR(1Mbps)

2480MHz_TX

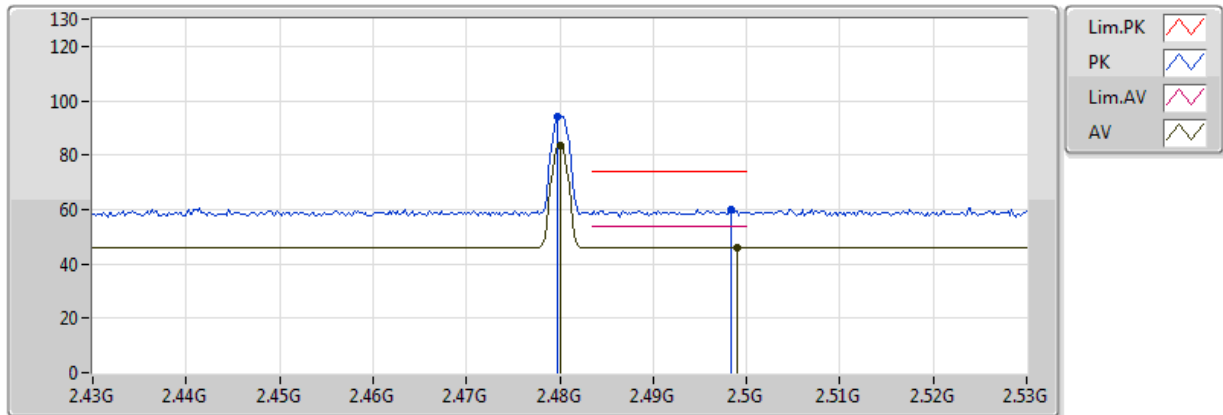


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4992G	46.13	54.00	-7.87	31.84	3	V	164	3.00	-
AV	2.48G	76.49	Inf	-Inf	31.77	3	V	164	3.00	-
PK	2.4862G	59.75	74.00	-14.25	31.79	3	V	164	3.00	-
PK	2.4802G	85.37	Inf	-Inf	31.77	3	V	164	3.00	-

BT-BR(1Mbps)

2480MHz_TX

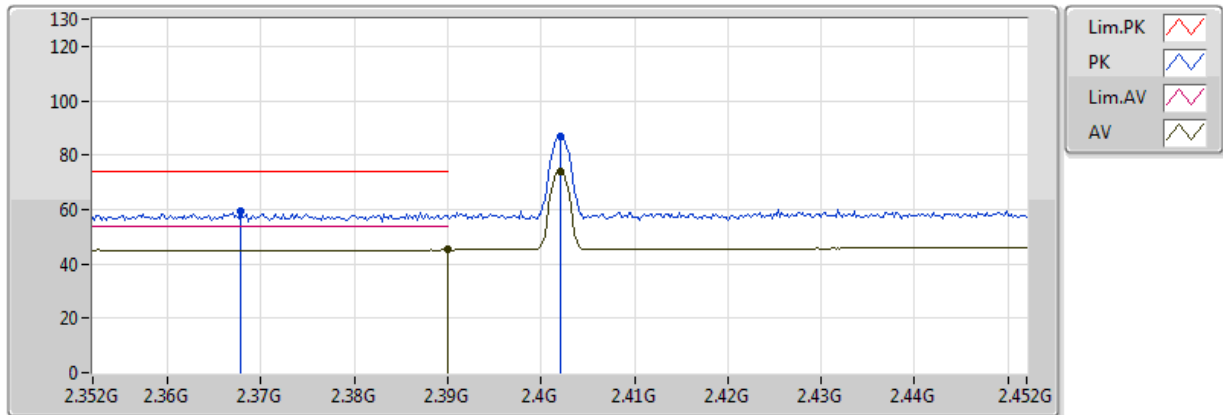


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.499G	46.12	54.00	-7.88	31.84	3	H	32	1.01	-
AV	2.48G	83.49	Inf	-Inf	31.77	3	H	32	1.01	-
PK	2.4984G	60.00	74.00	-14.00	31.83	3	H	32	1.01	-
PK	2.4798G	94.20	Inf	-Inf	31.77	3	H	32	1.01	-

BT-EDR(2Mbps)

2402MHz_TX

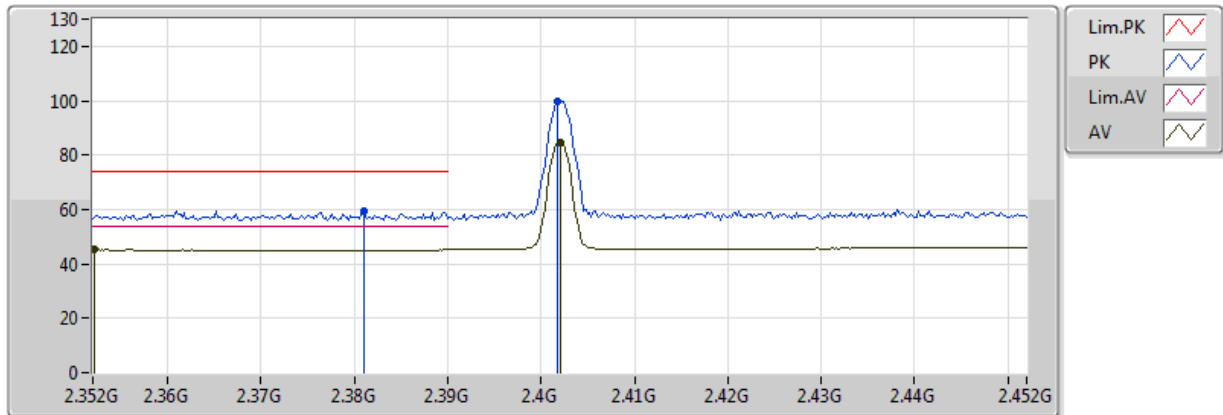


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	45.16	54.00	-8.84	31.45	3	V	23	1.50	-
AV	2.402G	74.15	Inf	-Inf	31.49	3	V	23	1.50	-
PK	2.3678G	59.13	74.00	-14.87	31.37	3	V	23	1.50	-
PK	2.402G	86.67	Inf	-Inf	31.49	3	V	23	1.50	-

BT-EDR(2Mbps)

2402MHz_TX

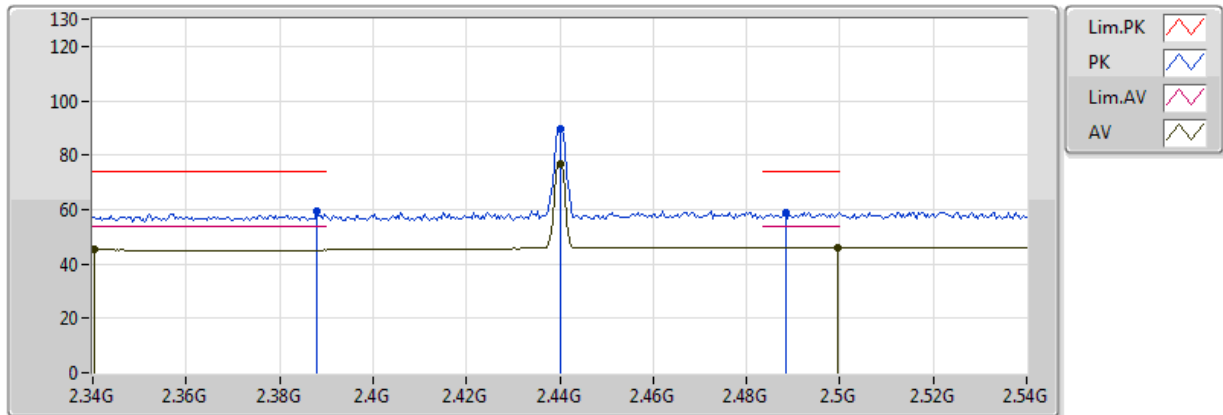


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3522G	45.15	54.00	-8.85	31.31	3	H	40	1.38	-
AV	2.402G	84.75	Inf	-Inf	31.49	3	H	40	1.38	-
PK	2.381G	59.45	74.00	-14.55	31.41	3	H	40	1.38	-
PK	2.4018G	99.96	Inf	-Inf	31.49	3	H	40	1.38	-

BT-EDR(2Mbps)

2440MHz_TX

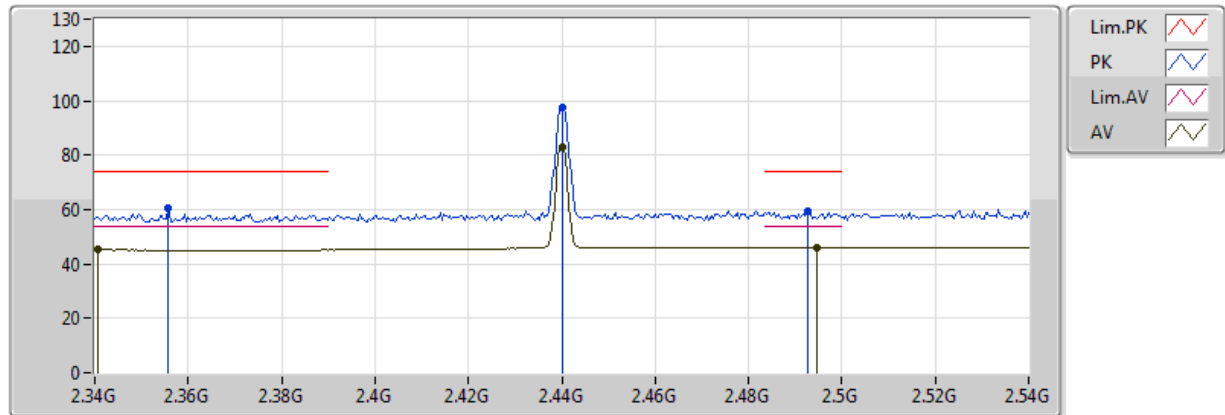


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3404G	45.20	54.00	-8.80	31.27	3	V	310	3.03	-
AV	2.4996G	46.13	54.00	-7.87	31.84	3	V	310	3.03	-
AV	2.44G	76.75	Inf	-Inf	31.62	3	V	310	3.03	-
PK	2.388G	59.18	74.00	-14.82	31.44	3	V	310	3.03	-
PK	2.4884G	59.06	74.00	-14.94	31.80	3	V	310	3.03	-
PK	2.44G	89.78	Inf	-Inf	31.62	3	V	310	3.03	-

BT-EDR(2Mbps)

2440MHz_TX

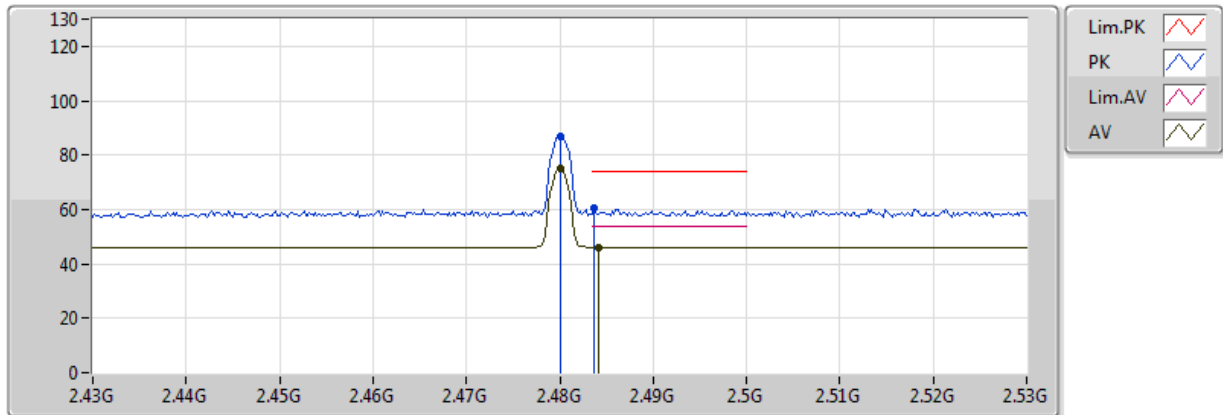


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3408G	45.18	54.00	-8.82	31.27	3	H	43	1.00	-
AV	2.4948G	46.14	54.00	-7.86	31.82	3	H	43	1.00	-
AV	2.44G	82.85	Inf	-Inf	31.62	3	H	43	1.00	-
PK	2.3556G	60.54	74.00	-13.46	31.32	3	H	43	1.00	-
PK	2.4928G	59.18	74.00	-14.82	31.81	3	H	43	1.00	-
PK	2.44G	97.49	Inf	-Inf	31.62	3	H	43	1.00	-

BT-EDR(2Mbps)

2480MHz_TX

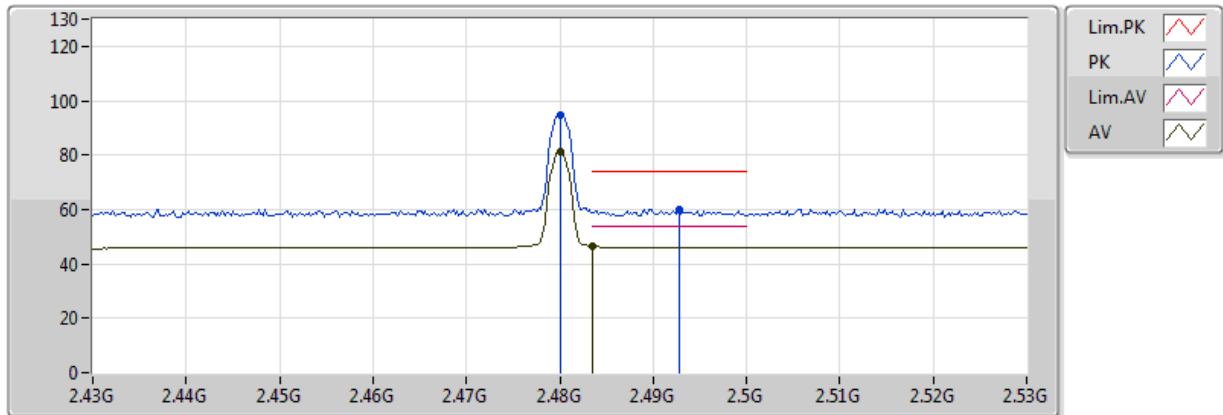


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4842G	46.14	54.00	-7.86	31.78	3	V	310	3.33	-
AV	2.48G	74.96	Inf	-Inf	31.77	3	V	310	3.33	-
PK	2.4836G	60.30	74.00	-13.70	31.78	3	V	310	3.33	-
PK	2.48G	86.75	Inf	-Inf	31.77	3	V	310	3.33	-

BT-EDR(2Mbps)

2480MHz_TX

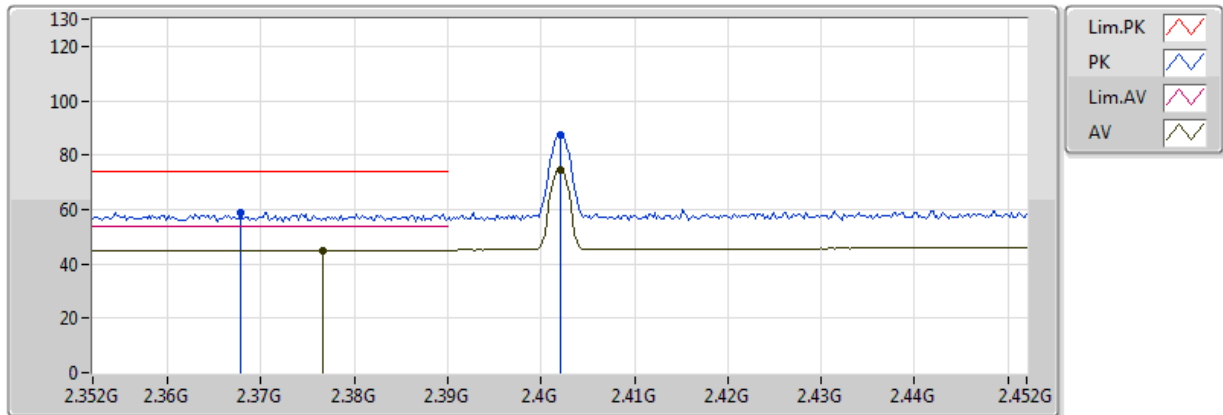


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.483502G	46.51	54.00	-7.49	31.78	3	H	32	1.01	-
AV	2.48G	81.32	Inf	-Inf	31.77	3	H	32	1.01	-
PK	2.4928G	60.15	74.00	-13.85	31.81	3	H	32	1.01	-
PK	2.48G	94.80	Inf	-Inf	31.77	3	H	32	1.01	-

BT-EDR(3Mbps)

2402MHz_TX

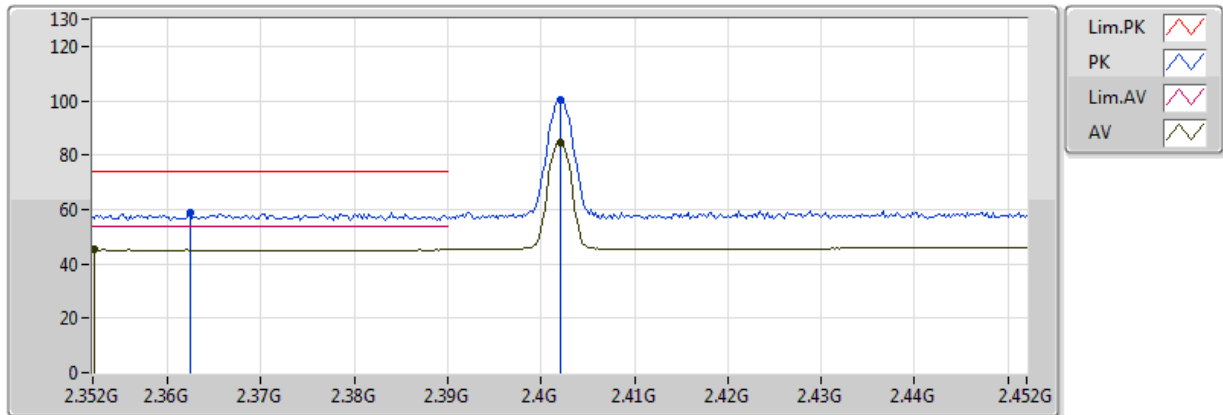


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3766G	45.10	54.00	-8.90	31.40	3	V	22	1.51	-
AV	2.402G	74.48	Inf	-Inf	31.49	3	V	22	1.51	-
PK	2.3678G	59.00	74.00	-15.00	31.37	3	V	22	1.51	-
PK	2.402G	87.63	Inf	-Inf	31.49	3	V	22	1.51	-

BT-EDR(3Mbps)

2402MHz_TX

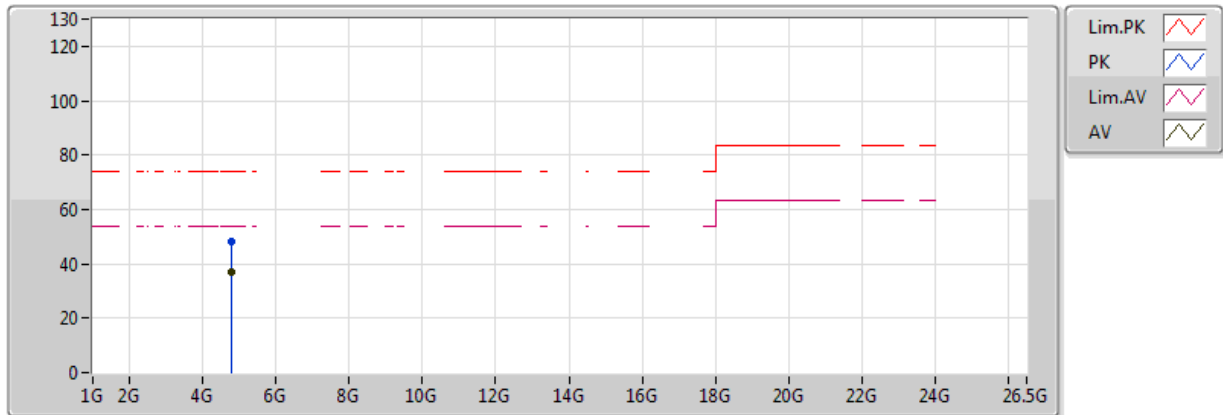


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3522G	45.17	54.00	-8.83	31.31	3	H	0	1.50	-
AV	2.402G	84.58	Inf	-Inf	31.49	3	H	0	1.50	-
PK	2.3624G	58.86	74.00	-15.14	31.35	3	H	0	1.50	-
PK	2.402G	100.48	Inf	-Inf	31.49	3	H	0	1.50	-

BT-EDR(3Mbps)

2402MHz_TX

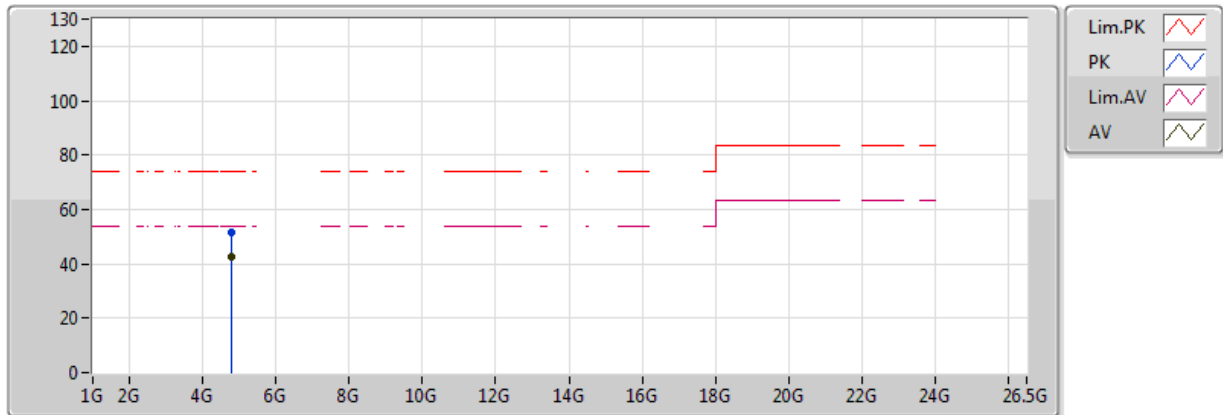


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.804G	36.93	54.00	-17.07	6.43	3	V	261	1.50	-
PK	4.804G	48.43	74.00	-25.57	6.43	3	V	261	1.50	-

BT-EDR(3Mbps)

2402MHz_TX

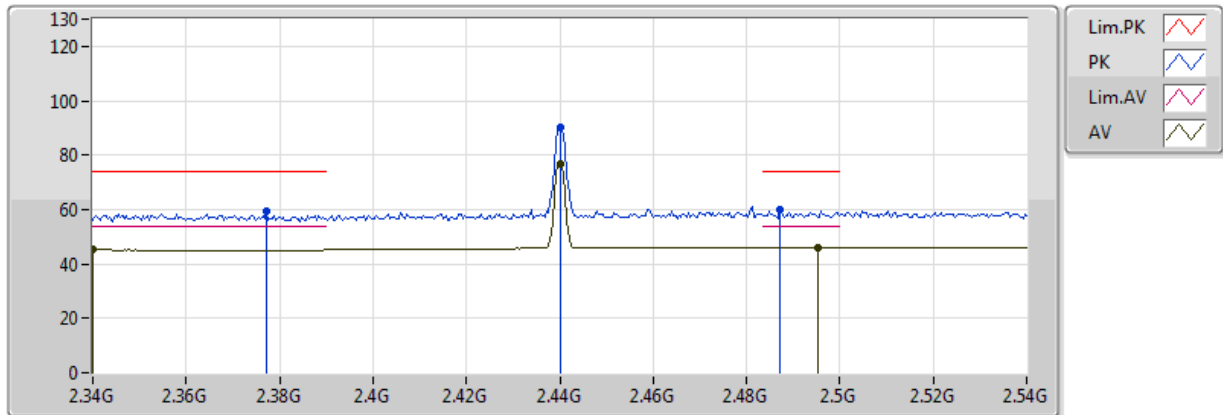


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.804G	42.43	54.00	-11.57	6.43	3	H	181	2.89	-
PK	4.804G	51.53	74.00	-22.47	6.43	3	H	181	2.89	-

BT-EDR(3Mbps)

2440MHz_TX

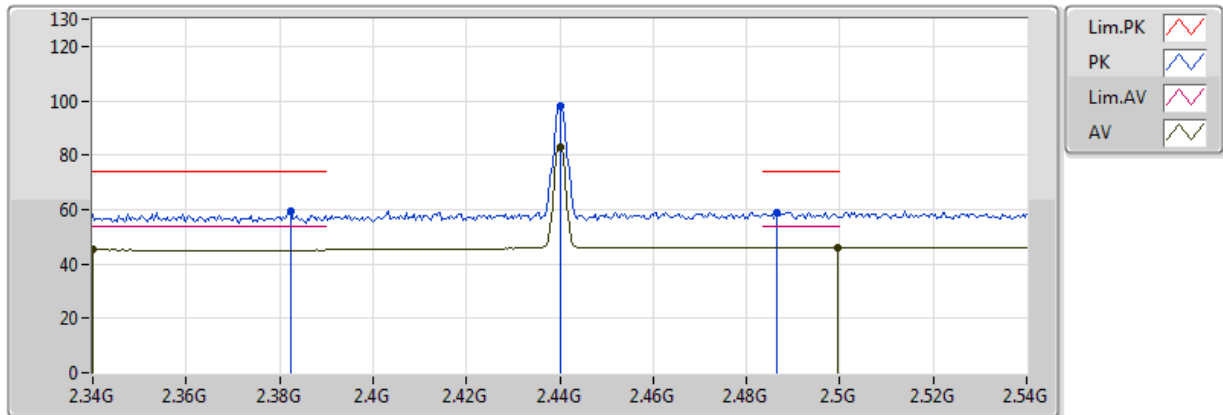


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.34G	45.17	54.00	-8.83	31.27	3	V	311	3.05	-
AV	2.4952G	46.10	54.00	-7.90	31.82	3	V	311	3.05	-
AV	2.44G	76.52	Inf	-Inf	31.62	3	V	311	3.05	-
PK	2.3772G	59.33	74.00	-14.67	31.40	3	V	311	3.05	-
PK	2.4872G	59.75	74.00	-14.25	31.79	3	V	311	3.05	-
PK	2.44G	90.41	Inf	-Inf	31.62	3	V	311	3.05	-

BT-EDR(3Mbps)

2440MHz_TX

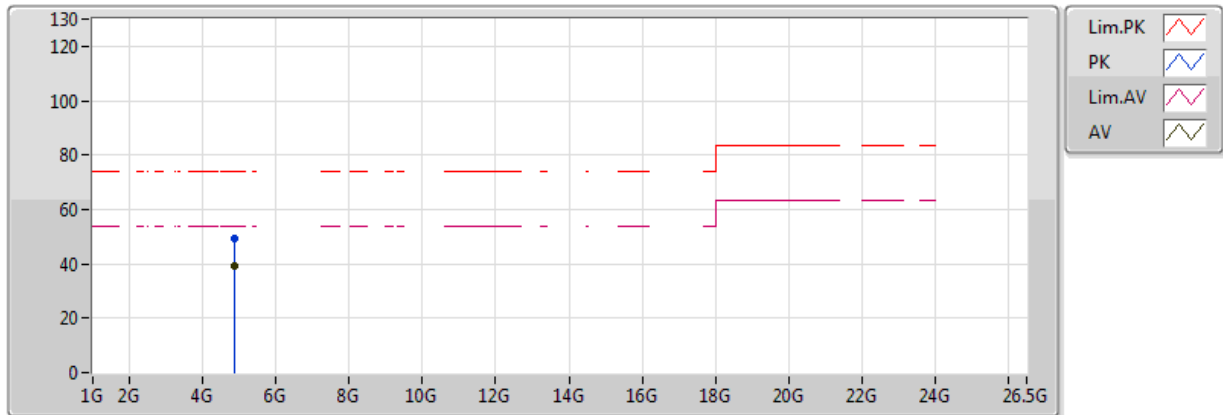


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.34G	45.18	54.00	-8.82	31.27	3	H	33	1.12	-
AV	2.4996G	46.10	54.00	-7.90	31.84	3	H	33	1.12	-
AV	2.44G	82.81	Inf	-Inf	31.62	3	H	33	1.12	-
PK	2.3824G	59.39	74.00	-14.61	31.42	3	H	33	1.12	-
PK	2.4864G	59.00	74.00	-15.00	31.79	3	H	33	1.12	-
PK	2.44G	98.03	Inf	-Inf	31.62	3	H	33	1.12	-

BT-EDR(3Mbps)

2440MHz_TX

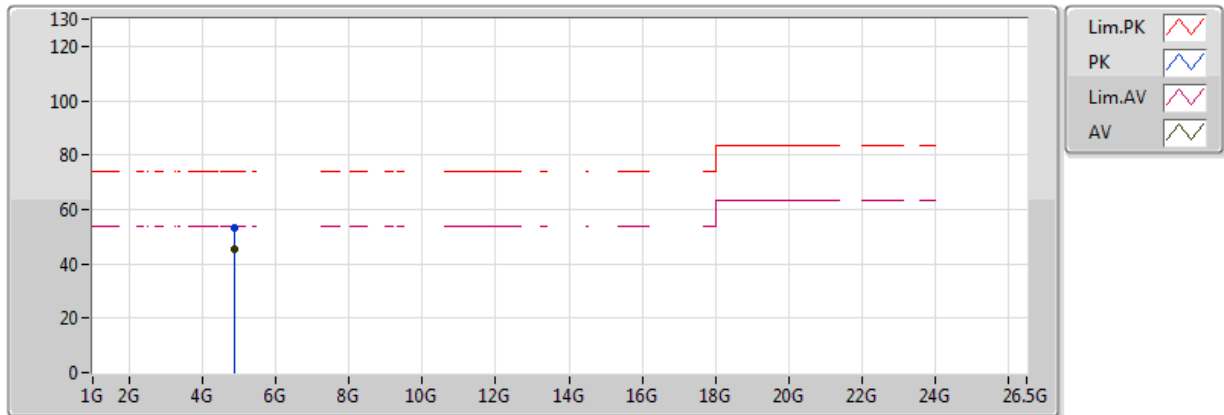


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.88G	39.12	54.00	-14.88	6.62	3	V	0	1.00	-
PK	4.88G	49.12	74.00	-24.88	6.62	3	V	0	1.00	-

BT-EDR(3Mbps)

2440MHz_TX

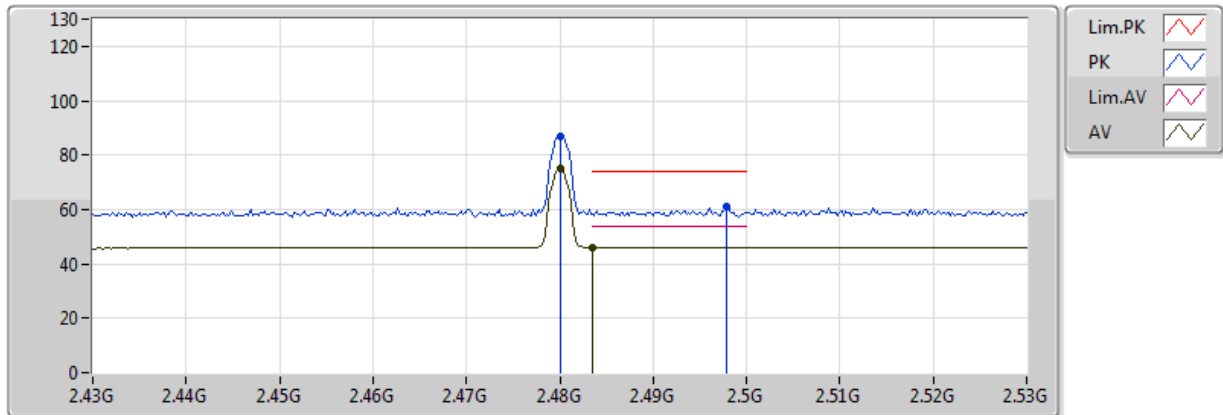


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.88G	45.12	54.00	-8.88	6.62	3	H	181	2.34	-
PK	4.88G	53.02	74.00	-20.98	6.62	3	H	181	2.34	-

BT-EDR(3Mbps)

2480MHz_TX

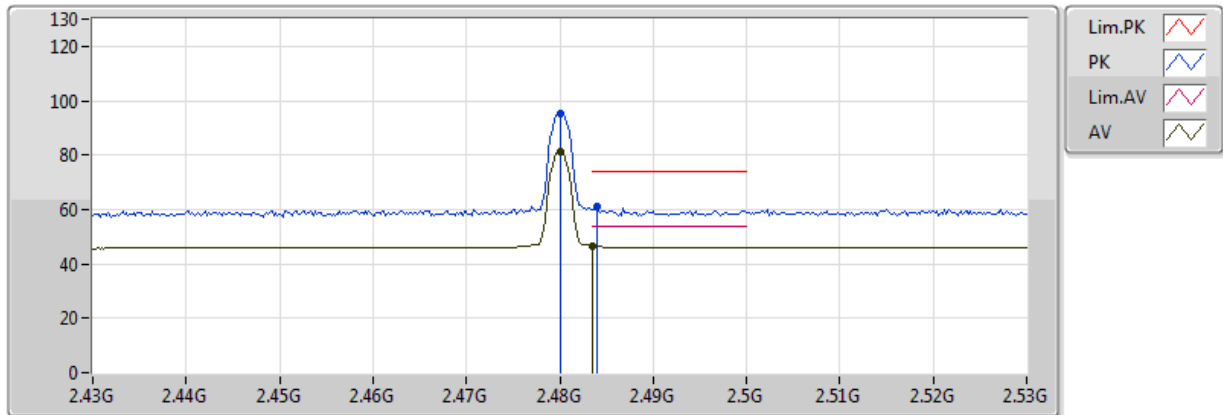


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.483502G	46.17	54.00	-7.83	31.78	3	V	308	3.69	-
AV	2.48G	74.88	Inf	-Inf	31.77	3	V	308	3.69	-
PK	2.4978G	61.06	74.00	-12.94	31.83	3	V	308	3.69	-
PK	2.48G	86.94	Inf	-Inf	31.77	3	V	308	3.69	-

BT-EDR(3Mbps)

2480MHz_TX

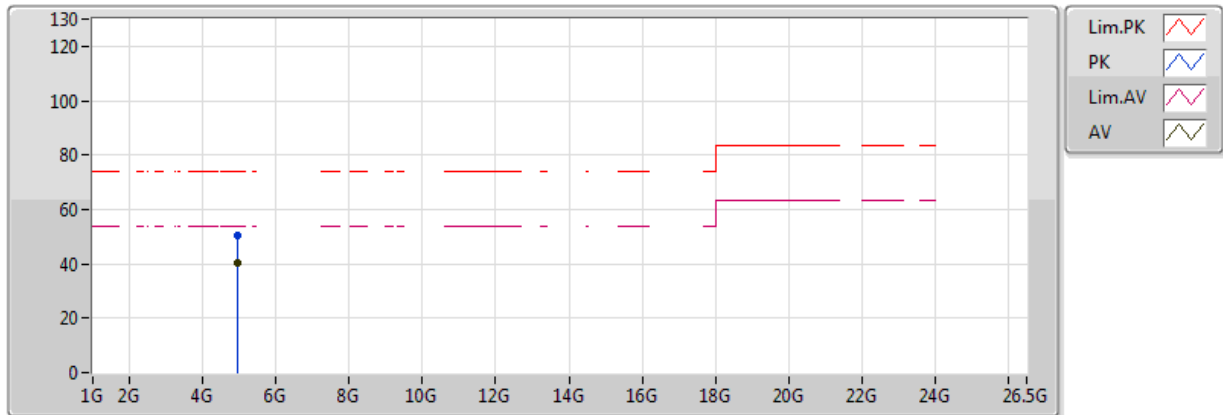


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.483502G	46.64	54.00	-7.36	31.78	3	H	46	1.01	-
AV	2.48G	81.47	Inf	-Inf	31.77	3	H	46	1.01	-
PK	2.484G	61.05	74.00	-12.95	31.78	3	H	46	1.01	-
PK	2.48G	95.37	Inf	-Inf	31.77	3	H	46	1.01	-

BT-EDR(3Mbps)

2480MHz_TX

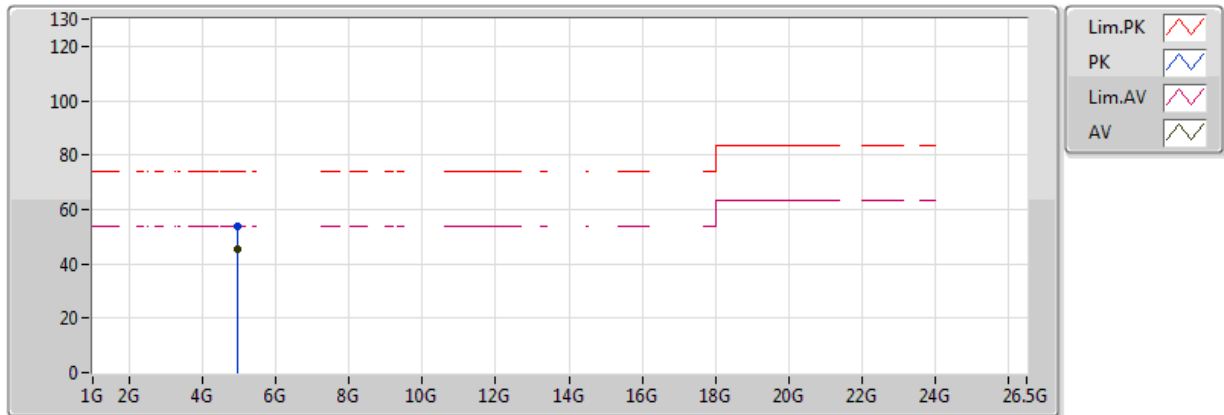


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.96G	40.52	54.00	-13.48	6.82	3	V	358	2.31	-
PK	4.96G	50.62	74.00	-23.38	6.82	3	V	358	2.31	-

BT-EDR(3Mbps)

2480MHz_TX



EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.96G	45.62	54.00	-8.38	6.82	3	H	182	1.05	-
PK	4.96G	53.82	74.00	-20.18	6.82	3	H	182	1.05	-

**Summary**

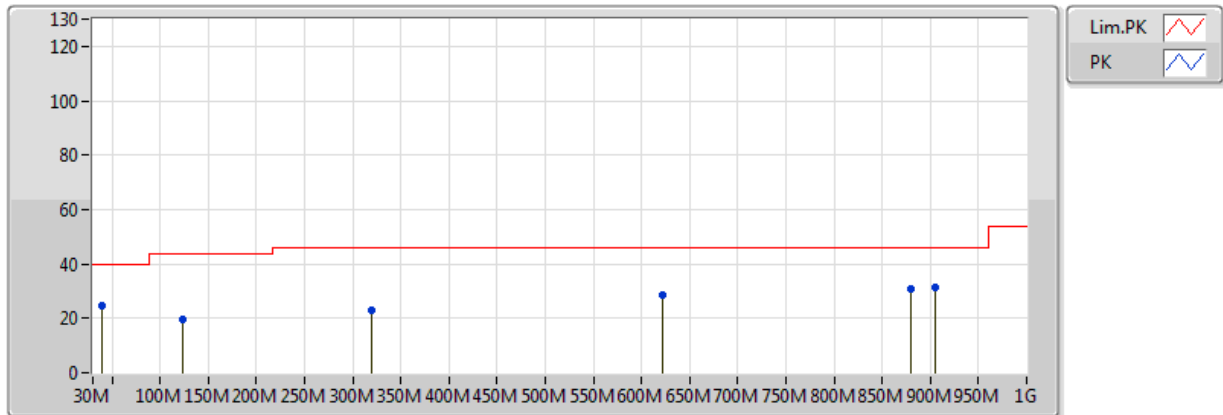
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	PK	904.94M	31.46	46.00	-14.54	3.12	3	V	0	1.00	-

Result

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-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	31.94M	20.53	40.00	-19.47	-5.43	3	H	360	1.00	-
2440MHz	Pass	PK	125.06M	19.20	43.50	-24.30	-8.31	3	H	360	1.00	-
2440MHz	Pass	PK	334.58M	23.98	46.00	-22.02	-4.95	3	H	360	1.00	-
2440MHz	Pass	PK	557.68M	28.75	46.00	-17.25	-0.07	3	H	360	1.00	-
2440MHz	Pass	PK	780.78M	29.99	46.00	-16.01	1.81	3	H	360	1.00	-
2440MHz	Pass	PK	885.54M	31.33	46.00	-14.67	2.93	3	H	360	1.00	-
2440MHz	Pass	PK	39.7M	24.41	40.00	-15.59	-8.77	3	V	0	1.00	-
2440MHz	Pass	PK	123.12M	19.35	43.50	-24.15	-8.27	3	V	0	1.00	-
2440MHz	Pass	PK	319.06M	22.93	46.00	-23.07	-5.10	3	V	0	1.00	-
2440MHz	Pass	PK	621.7M	28.68	46.00	-17.32	0.09	3	V	0	1.00	-
2440MHz	Pass	PK	879.72M	30.75	46.00	-15.25	2.89	3	V	0	1.00	-
2440MHz	Pass	PK	904.94M	31.46	46.00	-14.54	3.12	3	V	0	1.00	-

BT-EDR(3Mbps)RX

2440MHz_DC power Mode

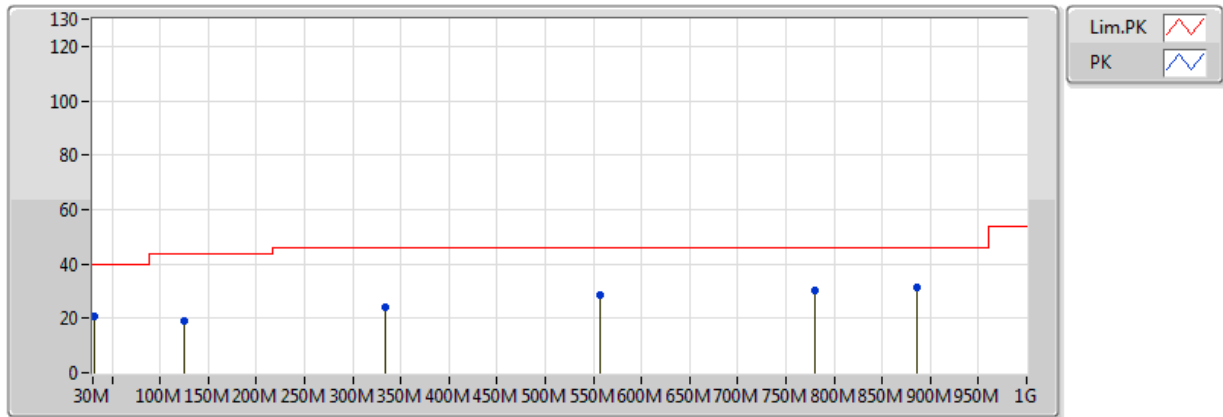


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	39.7M	24.41	40.00	-15.59	-8.77	3	V	0	1.00	-
PK	123.12M	19.35	43.50	-24.15	-8.27	3	V	0	1.00	-
PK	319.06M	22.93	46.00	-23.07	-5.10	3	V	0	1.00	-
PK	621.7M	28.68	46.00	-17.32	0.09	3	V	0	1.00	-
PK	879.72M	30.75	46.00	-15.25	2.89	3	V	0	1.00	-
PK	904.94M	31.46	46.00	-14.54	3.12	3	V	0	1.00	-

BT-EDR(3Mbps)RX

2440MHz_DC power Mode



EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	31.94M	20.53	40.00	-19.47	-5.43	3	H	360	1.00	-
PK	125.06M	19.20	43.50	-24.30	-8.31	3	H	360	1.00	-
PK	334.58M	23.98	46.00	-22.02	-4.95	3	H	360	1.00	-
PK	557.68M	28.75	46.00	-17.25	-0.07	3	H	360	1.00	-
PK	780.78M	29.99	46.00	-16.01	1.81	3	H	360	1.00	-
PK	885.54M	31.33	46.00	-14.67	2.93	3	H	360	1.00	-



RSE RX above 1GHz Result

Appendix G.4

Summary

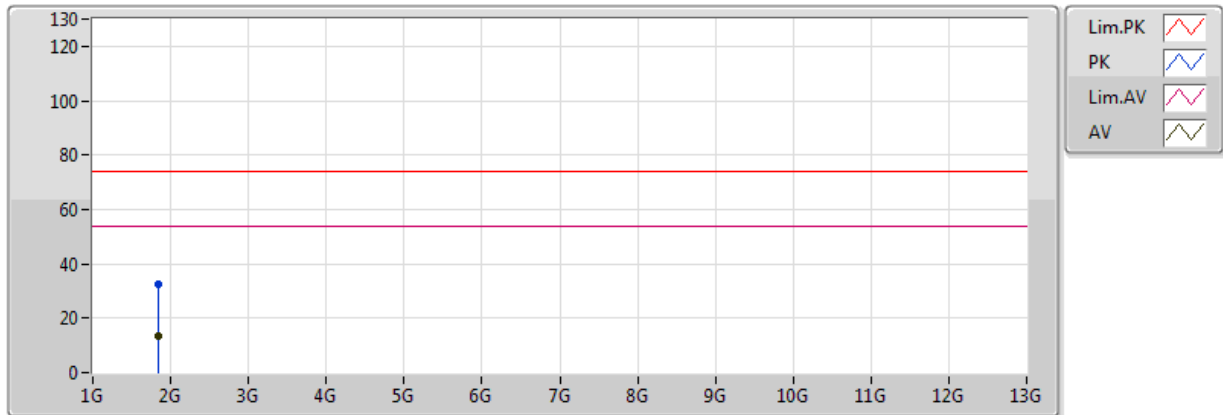
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	1.342G	24.91	54.00	-29.09	-4.05	3	H	360	1.00	-

Result

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-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	AV	1.342G	24.91	54.00	-29.09	-4.05	3	H	360	1.00	-
2440MHz	Pass	PK	1.342G	43.57	74.00	-30.43	-4.05	3	H	360	1.00	-
2440MHz	Pass	AV	1.845G	13.64	54.00	-40.36	-14.93	3	V	0	1.00	-
2440MHz	Pass	PK	1.845G	32.43	74.00	-41.57	-14.93	3	V	0	1.00	-

BT-EDR(3Mbps)RX

2440MHz_RX

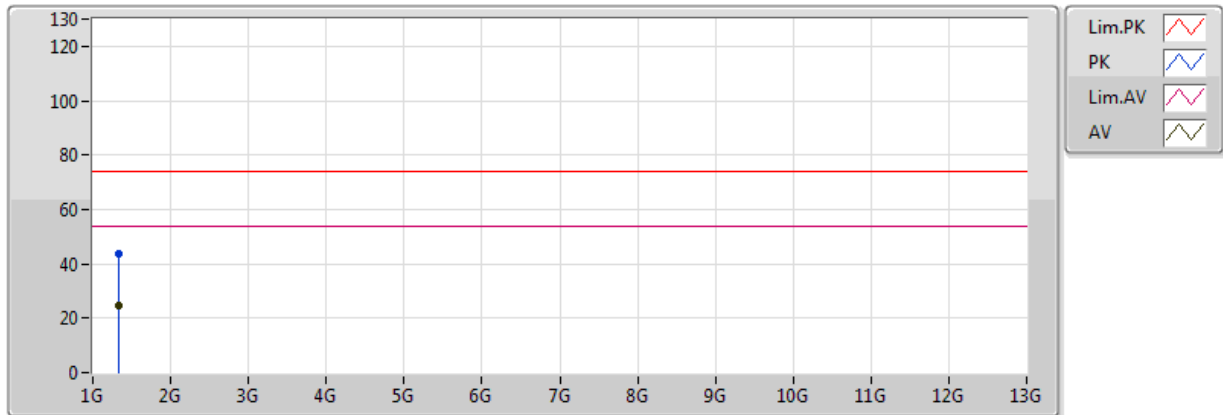


EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	1.845G	32.43	74.00	-41.57	-14.93	3	V	0	1.00	-
AV	1.845G	13.64	54.00	-40.36	-14.93	3	V	0	1.00	-

BT-EDR(3Mbps)RX

2440MHz_RX



EUT=Z

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	1.342G	24.91	54.00	-29.09	-4.05	3	H	360	1.00	-
PK	1.342G	43.57	74.00	-30.43	-4.05	3	H	360	1.00	-