

FCC Test Report

Equipment : C2 Wi-Fi Camera
Brand Name : Honeywell
Model No. : CHCC2
FCC ID : CFS8DLCHCC2
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Applicant : Ademco Inc.
2 Corporate Center Drive, Suite 100, Melville, New York
11747 United States
Manufacturer : EDIMAX TECHNOLOGY CO., LTD.
No.278, Xinhua 1st Rd., Neihu Dist., Taipei City, Taiwan

The product sample received on May 23, 2017 and completely tested on Jun. 15, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.


Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

Table of Contents

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	Accessories	9
2.5	Support Equipment.....	9
2.6	Test Setup Diagram	10
3	TRANSMITTER TEST RESULT	12
3.1	AC Power-line Conducted Emissions	12
3.2	20dB Bandwidth and Carrier Frequency Separation	13
3.3	Maximum Conducted Output Power	14
3.4	Number of Hopping Frequencies and Hopping Bandedge	15
3.5	Time of Occupancy (Dwell Time)	16
3.6	Emissions in Non-restricted Frequency Bands	17
3.7	Emissions in Restricted Frequency Bands.....	18
4	TEST EQUIPMENT AND CALIBRATION DATA	21
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	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 Bandedge	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

Declaration of Conformity:

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Comments and explanations:

None



Report No. : FR752344-01AD

Revision History

[illegible]

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	LYNwave	ALC160-051023-000000	PCB	I-PEX	2.0

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC Adapter
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)	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
BT-EDR(2Mbps)	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
BT-EDR(3Mbps)	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

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, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL	:	886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.					
☐	JHUBEI	ADD	:	No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL	:	886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.					

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Ryan	21.8°C / 65%	12/Jun/2017
Radiated	03CH09-HY	Terry	20.7°C / 57%	10/Jun/2017
AC Conduction	CO04-HY	Teddy	22°C / 60%	15/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	120V

2.2 Test Channel Mode

Test Software	Realtek
---------------	---------

Mode	Power Setting
BT-BR(1Mbps)	-
Hopping	default
BT-EDR(2Mbps)	-
Hopping	default
BT-EDR(3Mbps)	-
Hopping	default

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	EUT standing + Adapter with Extend Cable; WiFi 2.4G Link ; Micro SD R/W
2	EUT standing + Adapter with Extend Cable; WiFi 5G Link ; Micro SD R/W
3	EUT standing + USB with Extend Cable; WiFi 5G Link ; Micro SD R/W
For operating mode 3 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 standing + Adapter with Extend Cable; WiFi 2.4G Link ; Micro SD R/W	
2	EUT standing + Adapter with Extend Cable; WiFi 5G Link ; Micro SD R/W	
3	EUT laying + Adapter with Extend Cable; WiFi 2.4G Link ; Micro SD R/W	
4	EUT standing + USB with Extend Cable; WiFi 2.4G Link ; Micro SD R/W	
Operating Mode > 1GHz	CTX	
Orthogonal Planes of EUT	Y Plane	Z Plane
		
Worst Planes of EUT	V	

2.4 Accessories

Accessories				
AC Adapter	Brand Name	APD	Model Name	WB-10E05FU
	Power Rating	I/P: 100-240Vac, 50-60Hz, 0.4A, O/P: 5Vdc, 2A		
	Power Cord	1.8meter, non-shielded cable, w/o ferrite core		
USB Cable	Brand Name	-	Model Name	-
	Power Cord	1.8meter, non-shielded cable, w/o ferrite core		
Stand	Brand Name	-	Model Name	-
USB Extend Cable	Brand Name	-	Model Name	-
	Power Cord	2.75meter, non-shielded cable, w/o ferrite core		

2.5 Support Equipment

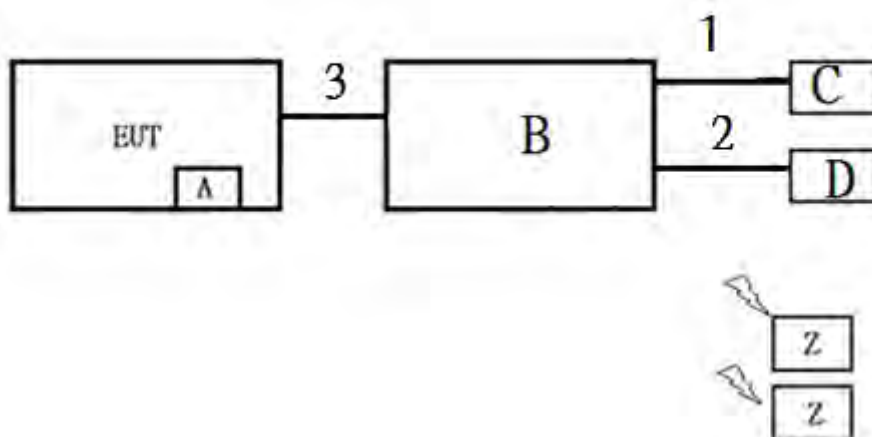
Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	AC Power source	-	-	-

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook(remote)	DELL	E6400	R33002
2	AC adapter for NB	DELL	LA65NS2-01	-
3	IPad(remote)	APPLE	-	-

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	SD Card	Transcend	8GB	DoC
2	Notebook	Dell	E5430	-
3	Mouse	Microsoft	1113	DoC
4	iPod nano	Apple	A1199	DoC
5	Notebook*2(remote)	DELL	P55G	DoC

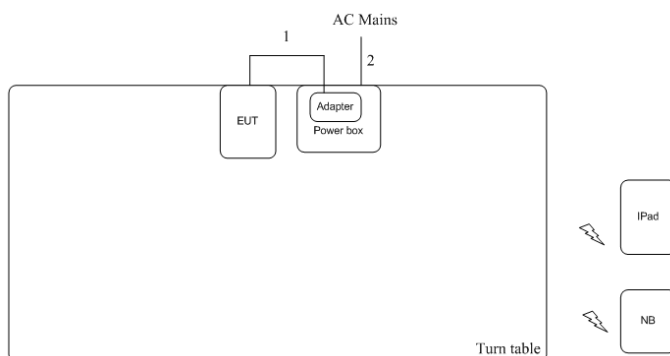
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test

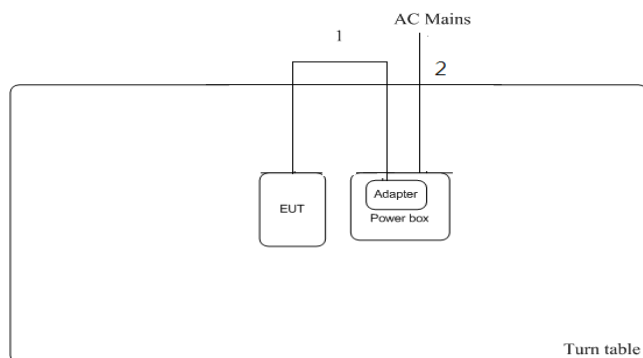


Item	Location Peripheral	Brand	Model
A	SD Card	Transcend	8GB
B	Notebook	Dell	E5430
C	Mouse	Microsoft	1113
D	iPod nano	Apple	A1199
Z	Notebook*2	DELL	P55G

Item	Connection	Shielded	Length
1	USB Cable	AL-F-Shielded	1.8m
2	USB Cable	B-Shielded	1m
3	USB Cable	Non-Shielded	2.75m

Test Setup Diagram - Radiated Test <1G


Item	Connection	Shielded	Length
1	USB Cable	D	4.6m
2	AC Power line	No	1.8m

Test Setup Diagram - Radiated Test >1G


Item	Connection	Shielded	Length
1	USB Cable	D	4.6m
2	AC Power line	No	1.8m

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.

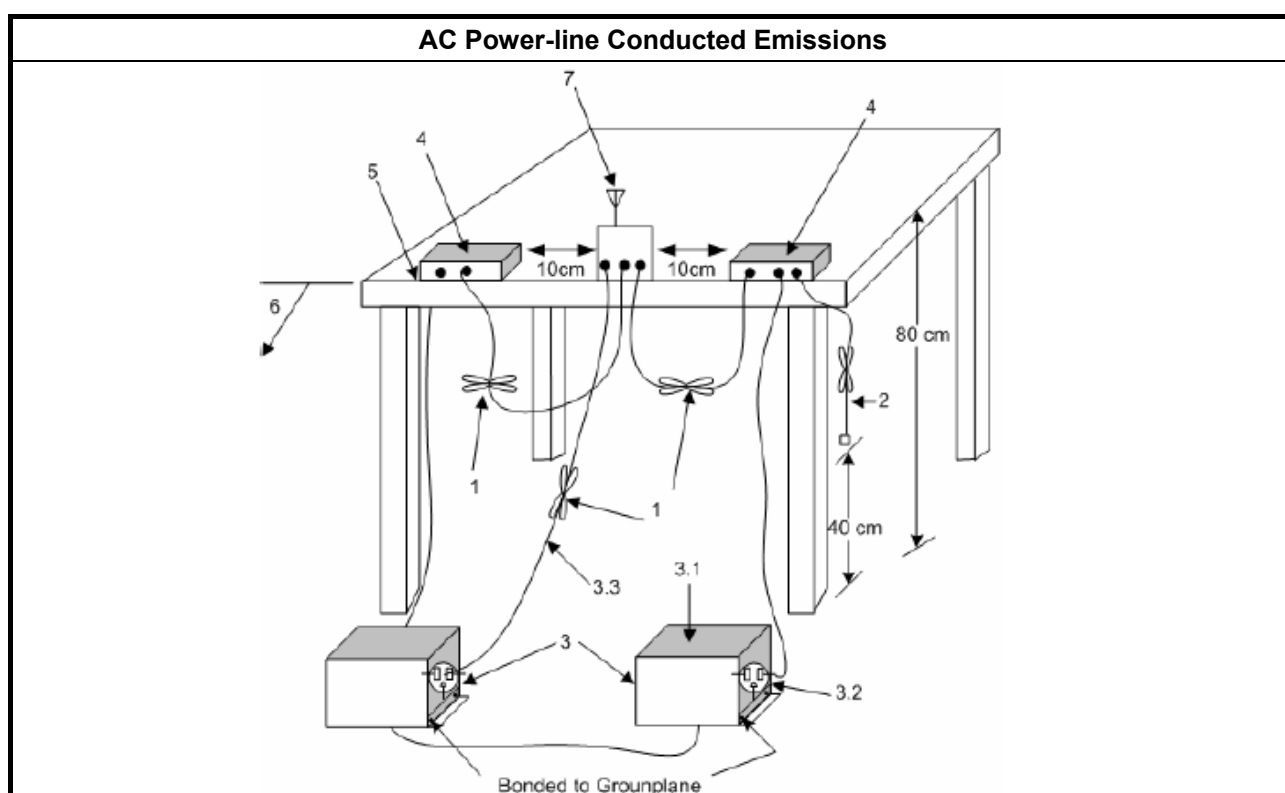
3.1.2 Measuring Instruments

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	

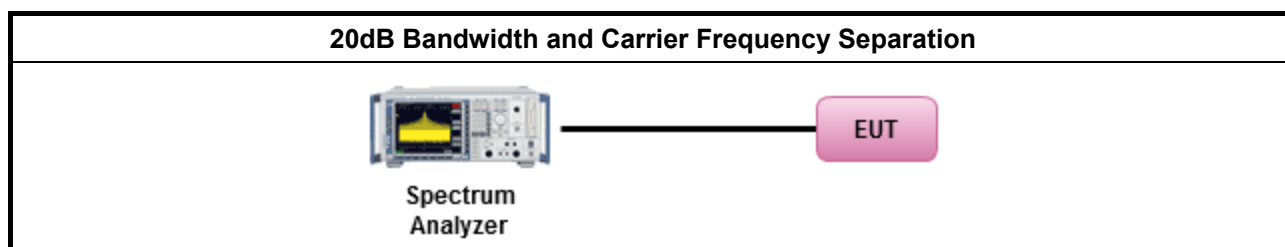
3.2.2 Measuring Instruments

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	

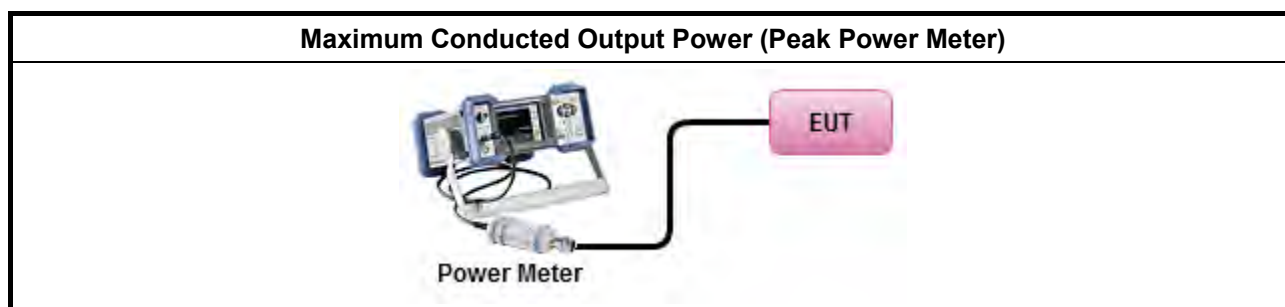
3.3.2 Measuring Instruments

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 $ChS \geq MAX$ (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

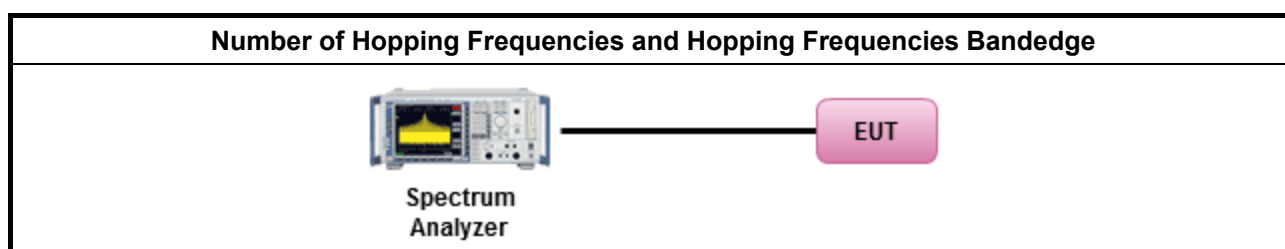
3.4.3 Measuring Instruments

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

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	

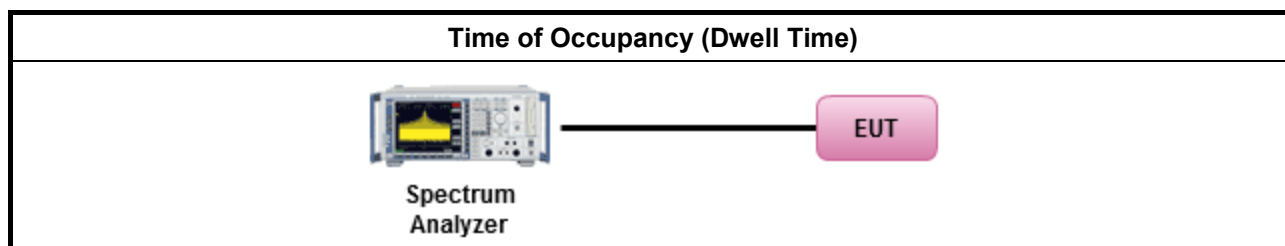
3.5.2 Measuring Instruments

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.	

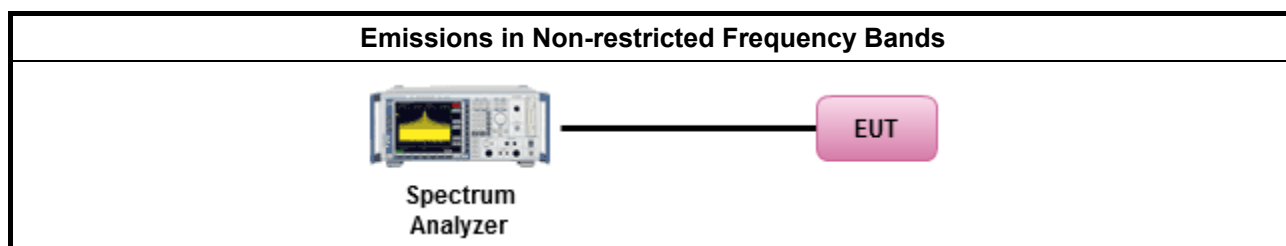
3.6.2 Measuring Instruments

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.

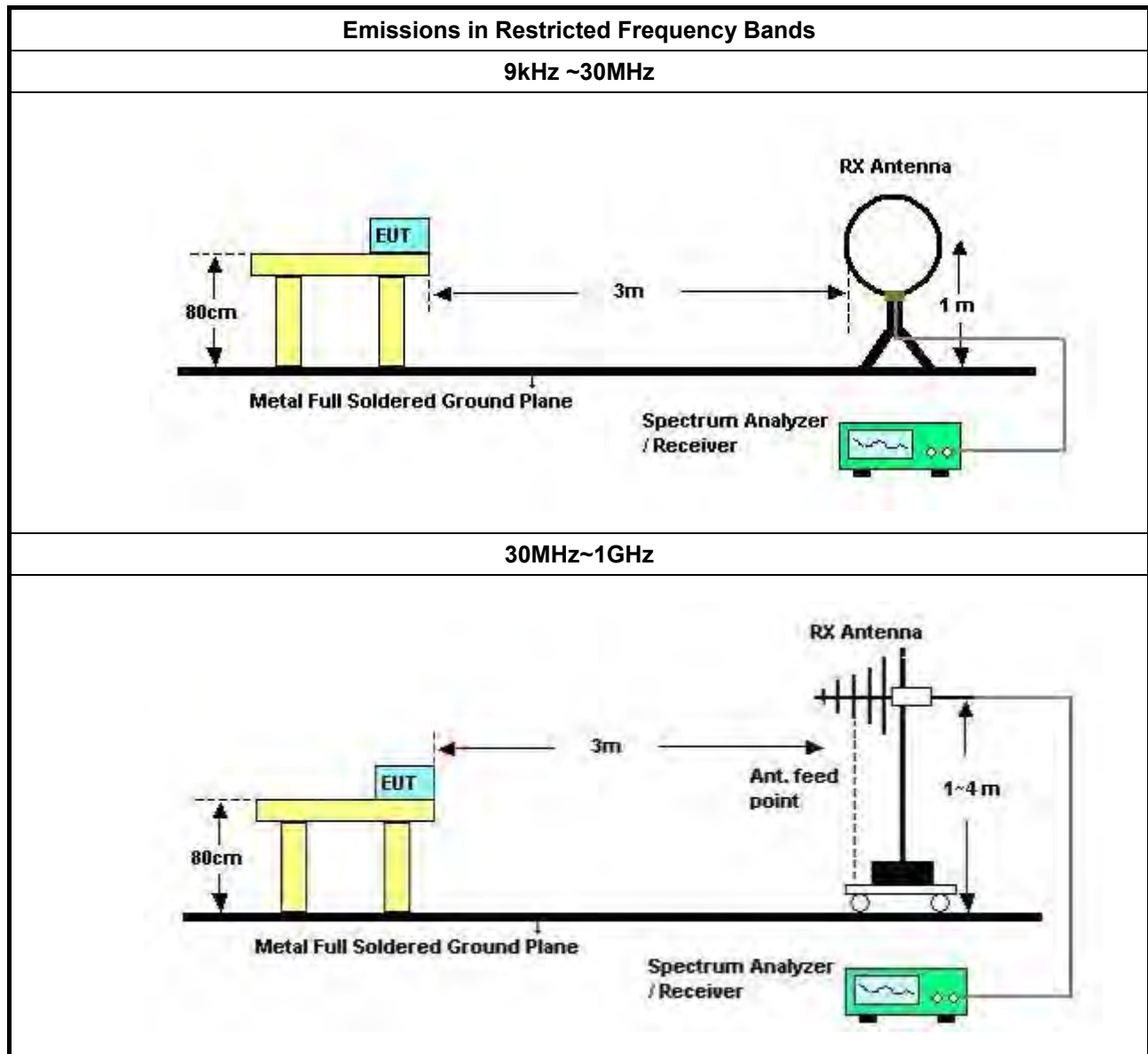
3.7.2 Measuring Instruments

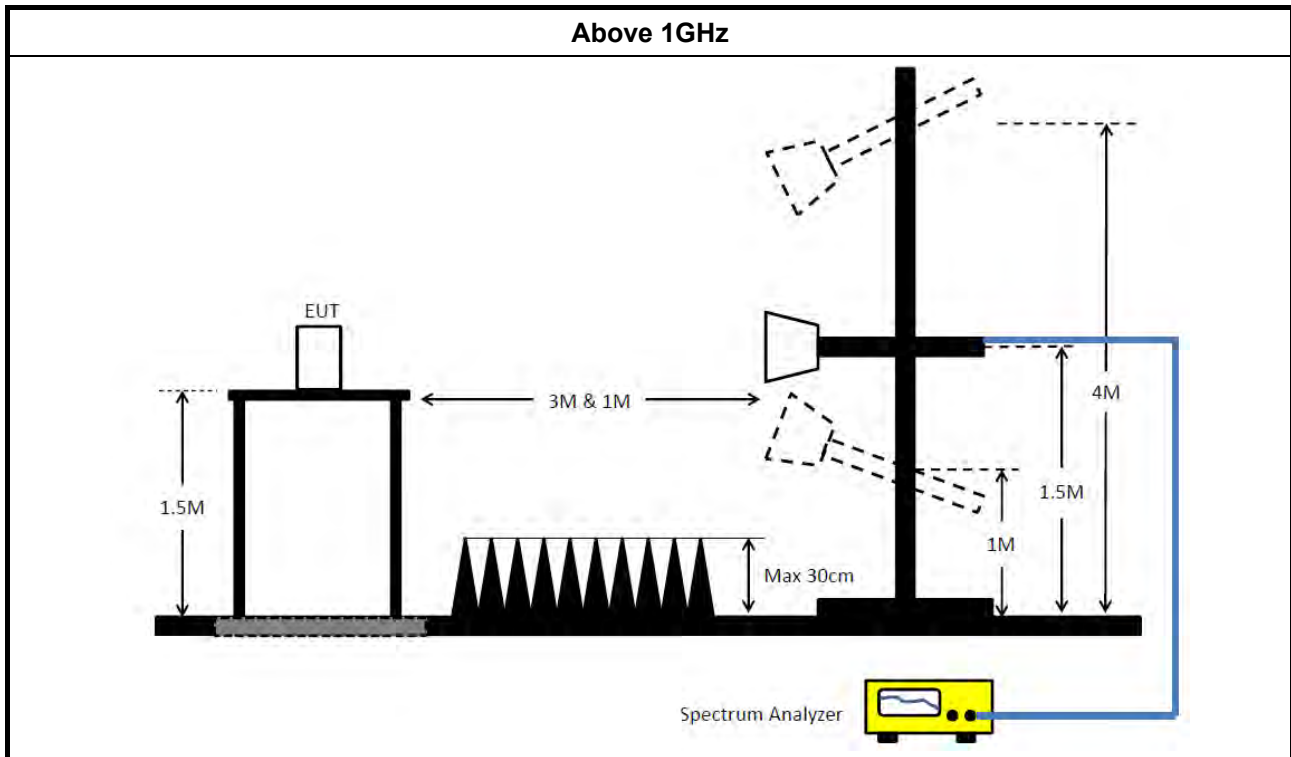
Refer a test equipment and calibration data table in this test report.

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

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102051	9KHz ~ 3.6GHz	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
Impuls Begrenzer Pulse Limiter	R&S	ESH3-Z2	100921	10 kHz ~ 30 MHz	20/Oct/2016	19/Oct/2017

Instrument for Radiated Test Below 1G

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	25/Apr/2017	24/04/2018
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	25/Apr/2017	24/04/2018
Spectrum Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	04/Jul/2016	03/07/2017
Bilog Antenna	TESEQ	CBL 6111D	35418	30MHz~1GHz	01/Oct/2016	30/09/2017
Loop Antenna	R&S	HFH2-Z2	100330	9 kHz~30 MHz	10/Nov/2016	09/11/2017
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	23/Jul/2016	22/Jul/2017

Instrument for Radiated Test Above 1G

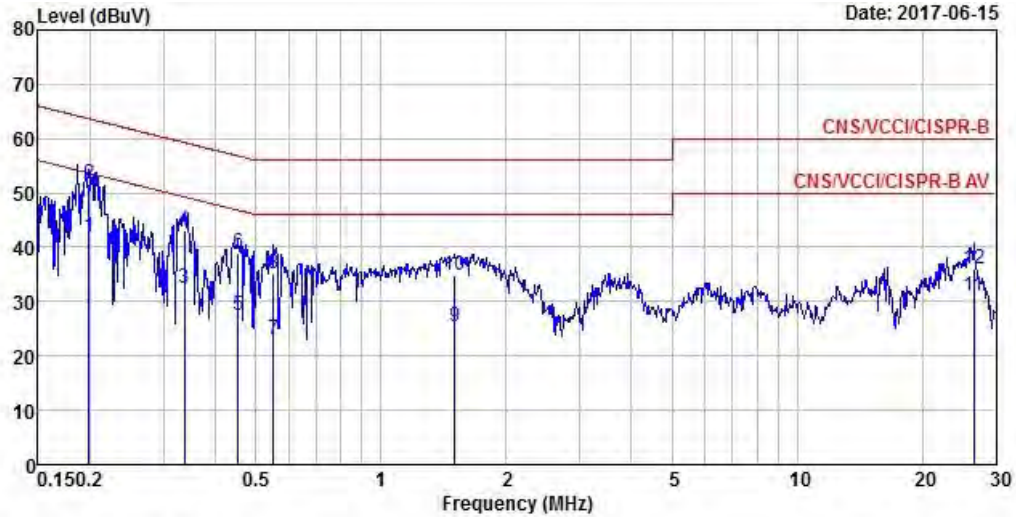
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	21/Jun/2016	20/Jun/2017
Amplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	25/Apr/2017	24/Apr/2018
Spectrum Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	04/Jul/2016	03/Jul/2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA9120D 1534	1GHz~18GHz	28/Apr/2017	27/Apr/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170614	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
RF Cable-high	Jye Bao	RG142	03CH09-HY	1GHz ~ 40GHz	23/Jul/2016	22/Jul/2017

**Instrument for Conducted Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	30/Dec/2016	29/Dec/ 2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
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	3	Power Phase	Neutral
Operating Function	EUT standing + USB with Extend Cable; WiFi 5G Link ; Micro SD R/W		



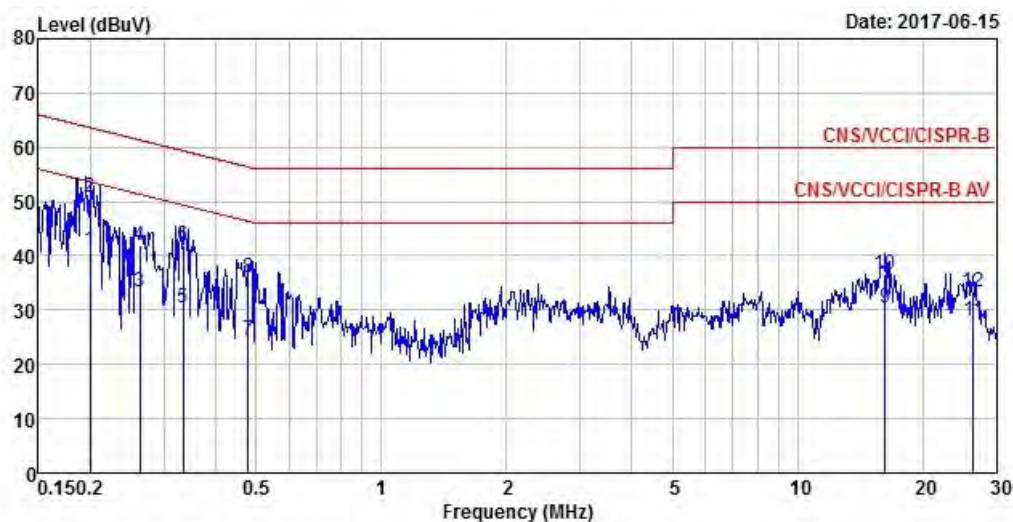
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 MAX	0.20	41.84	-11.83	53.67	31.89	9.65	0.30	Average
2	0.20	51.54	-12.13	63.67	41.59	9.65	0.30	QP
3	0.34	32.60	-16.67	49.27	22.78	9.67	0.15	Average
4	0.34	43.19	-16.08	59.27	33.37	9.67	0.15	QP
5	0.45	27.34	-19.46	46.80	17.57	9.67	0.10	Average
6	0.45	39.00	-17.80	56.80	29.23	9.67	0.10	QP
7	0.55	23.10	-22.90	46.00	13.34	9.66	0.10	Average
8	0.55	35.17	-20.83	56.00	25.41	9.66	0.10	QP
9	1.50	25.26	-20.74	46.00	15.32	9.72	0.22	Average

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	3	Power Phase	Line
Operating Function	EUT standing + USB with Extend Cable; WiFi 5G Link ; Micro SD R/W		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 MAX	0.20	41.08	-12.54	53.62	31.11	9.67	0.30	Average
2	0.20	50.83	-12.79	63.62	40.86	9.67	0.30	QP
3	0.26	33.39	-17.95	51.34	23.52	9.65	0.22	Average
4	0.26	41.91	-19.43	61.34	32.04	9.65	0.22	QP
5	0.33	30.46	-18.89	49.35	20.67	9.64	0.15	Average
6	0.33	41.93	-17.42	59.35	32.14	9.64	0.15	QP
7	0.48	24.40	-21.96	46.36	14.68	9.62	0.10	Average
8	0.48	35.88	-20.48	56.36	26.16	9.62	0.10	QP
9	16.23	30.54	-19.46	50.00	20.50	9.84	0.20	Average

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	977.5k	875.812k	876kF1D	906.25k	869.565k
BT-EDR(2Mbps)	-	-	-	-	-
2.4-2.4835GHz	1.356M	1.197M	1M20G1D	1.335M	1.193M
BT-EDR(3Mbps)	-	-	-	-	-
2.4-2.4835GHz	1.353M	1.198M	1M20G1D	1.328M	1.191M

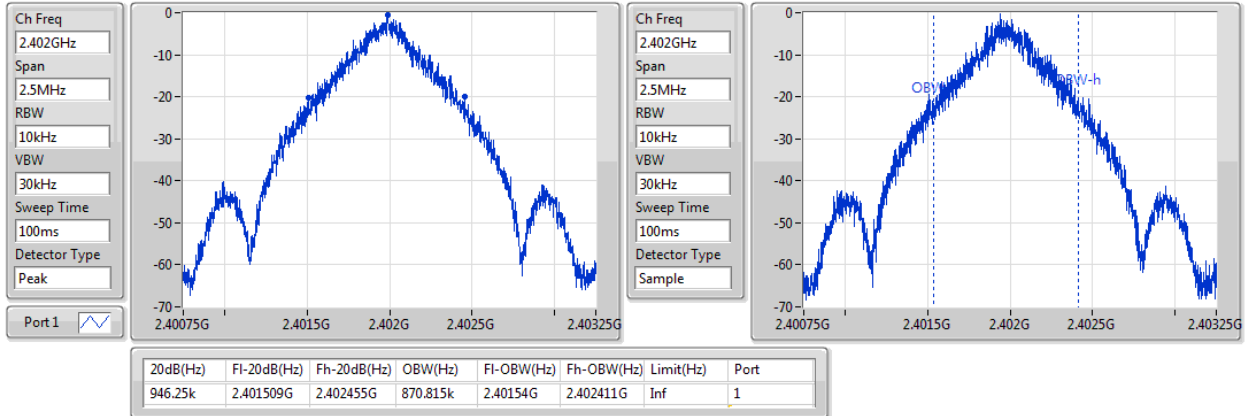
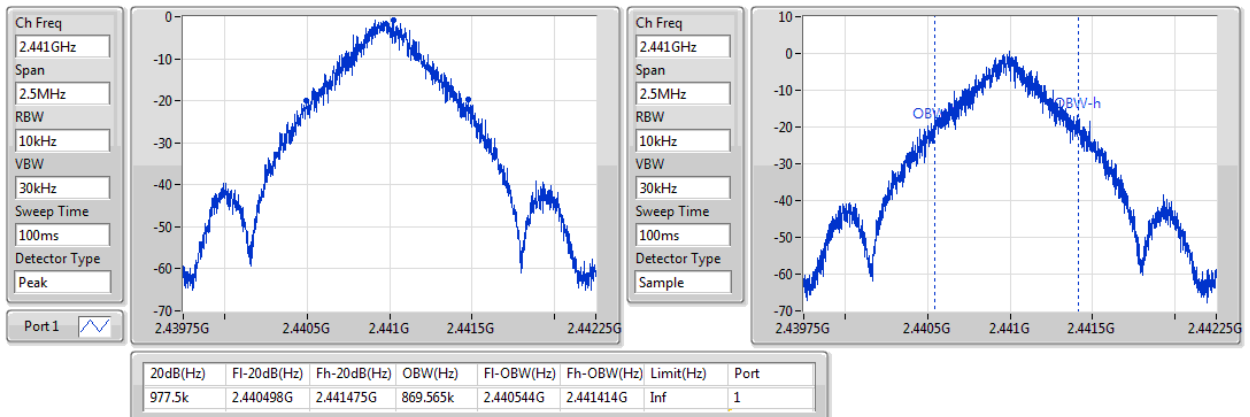
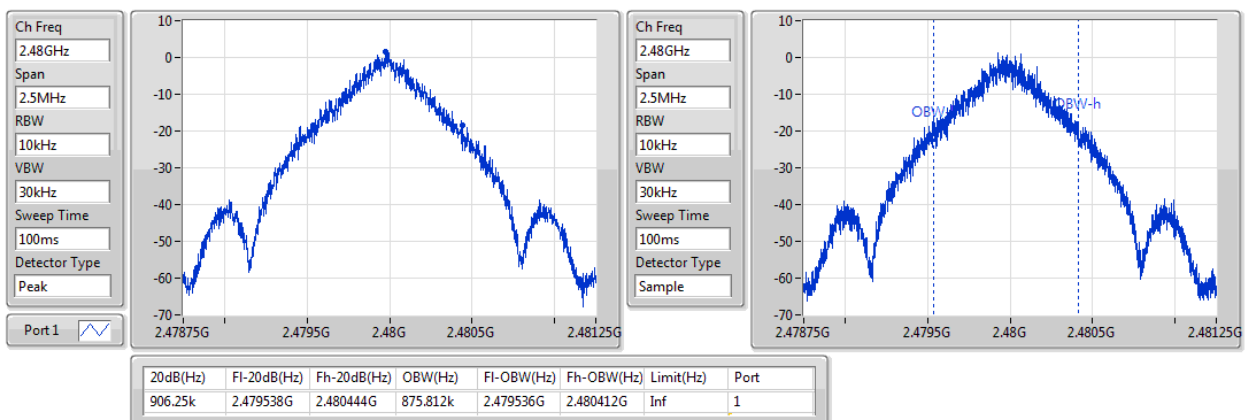
Max-N dB = Maximum 20dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

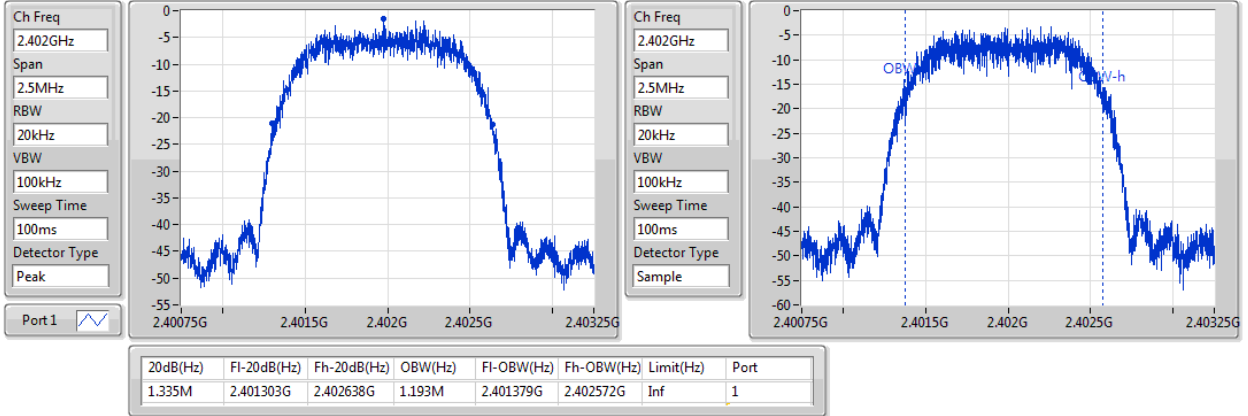
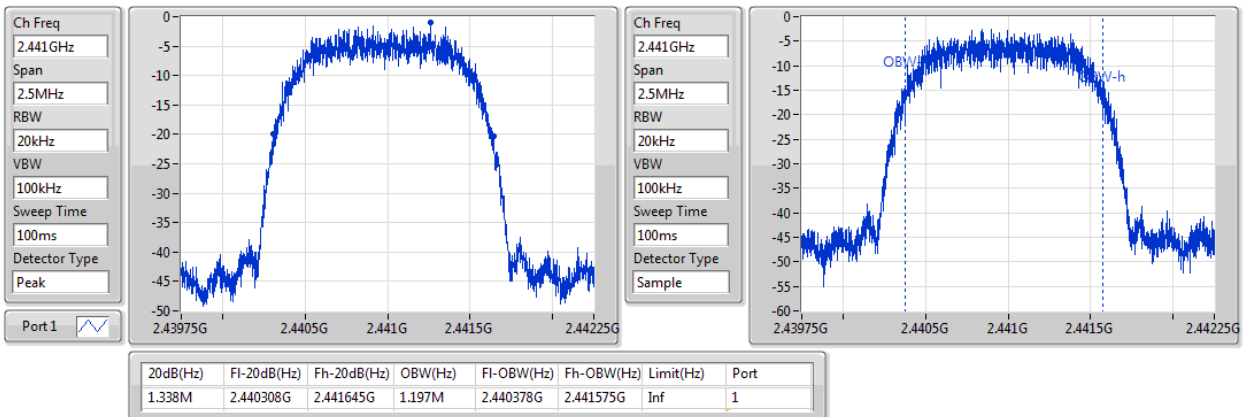
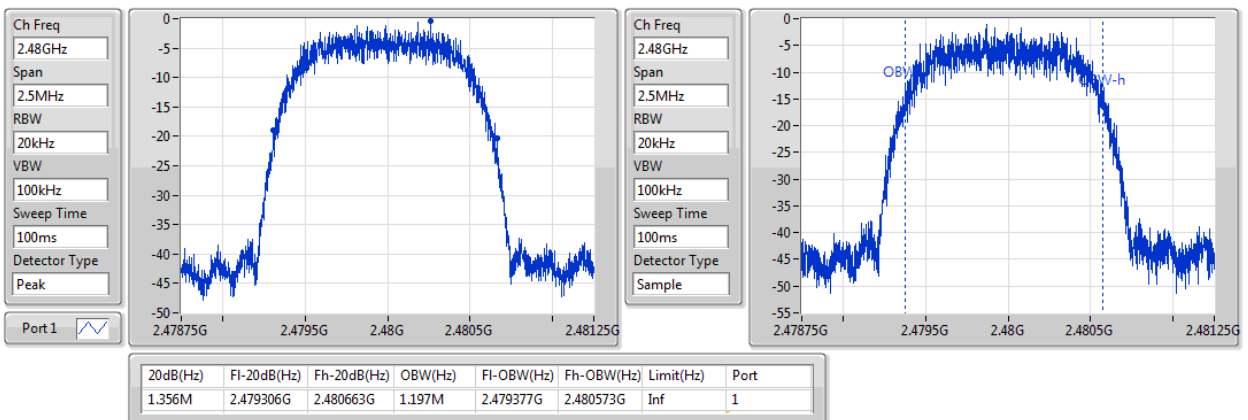
Min-N dB = Minimum 20dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

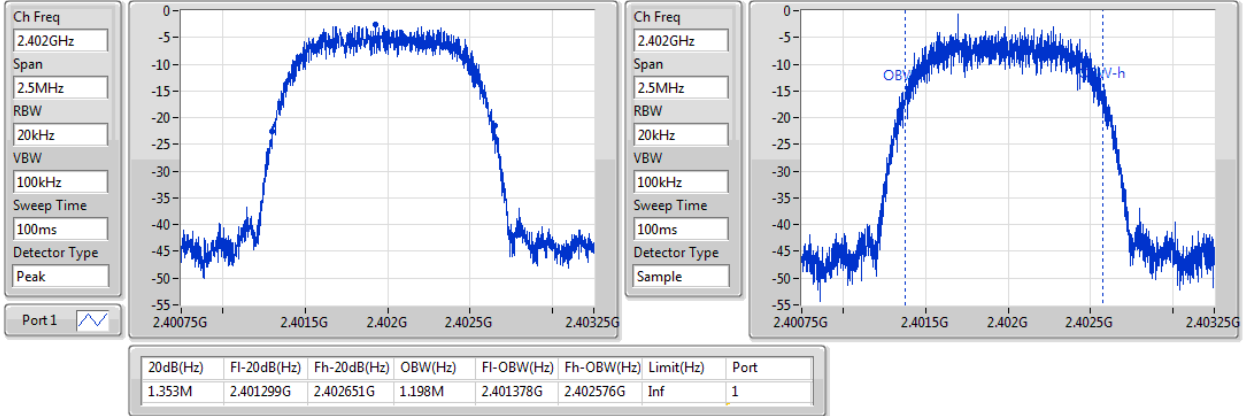
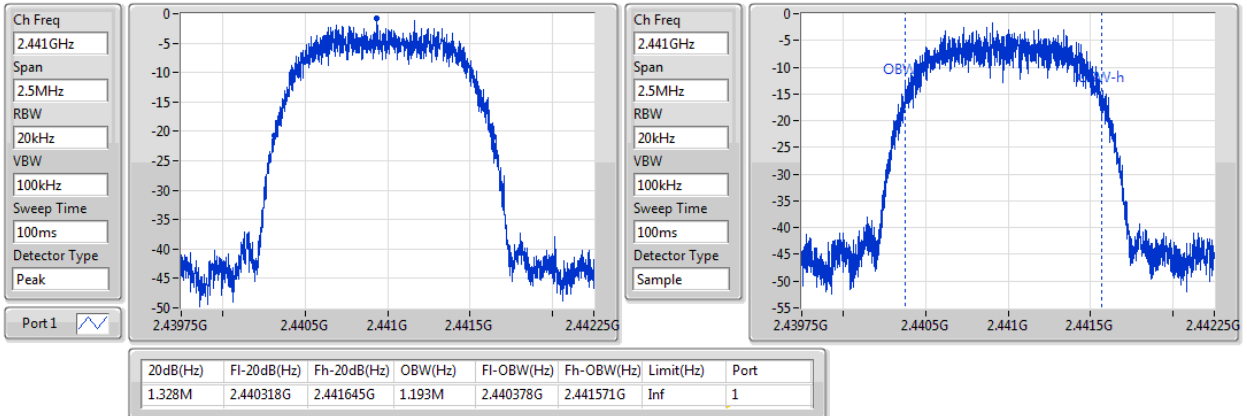
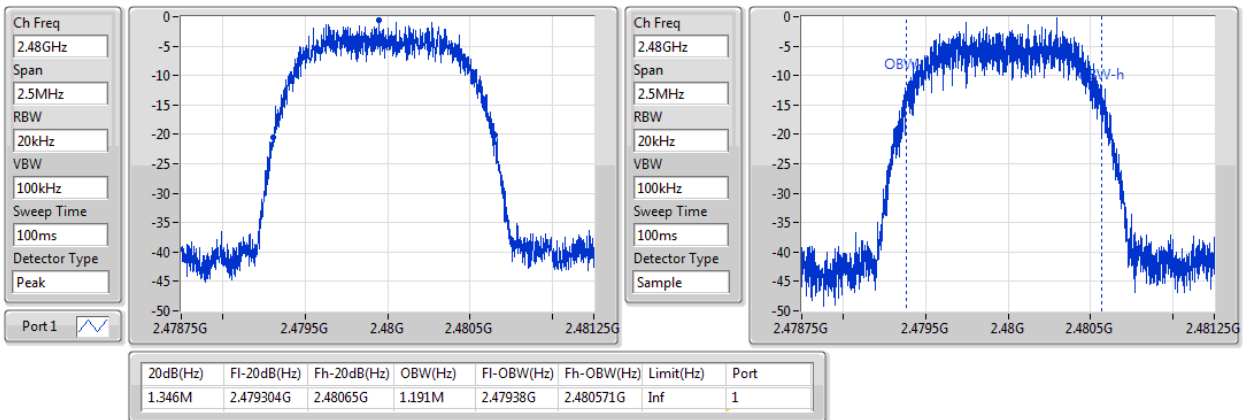
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	946.25k	870.815k
2441MHz	Pass	Inf	977.5k	869.565k
2480MHz	Pass	Inf	906.25k	875.812k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.335M	1.193M
2441MHz	Pass	Inf	1.338M	1.197M
2480MHz	Pass	Inf	1.356M	1.197M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.353M	1.198M
2441MHz	Pass	Inf	1.328M	1.193M
2480MHz	Pass	Inf	1.346M	1.191M

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
2441MHz

BT-BR(1Mbps)
EBW
2480MHz


BT-EDR(2Mbps)
EBW
2402MHz

BT-EDR(2Mbps)
EBW
2441MHz

BT-EDR(2Mbps)
EBW
2480MHz


BT-EDR(3Mbps)
EBW
2402MHz

BT-EDR(3Mbps)
EBW
2441MHz

BT-EDR(3Mbps)
EBW
2480MHz


Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
BT-BR(1Mbps)	-	-
2.4-2.4835GHz	1.0365M	1.002M
BT-EDR(2Mbps)	-	-
2.4-2.4835GHz	1.221M	1.0035M
BT-EDR(3Mbps)	-	-
2.4-2.4835GHz	1.2075M	997.5k

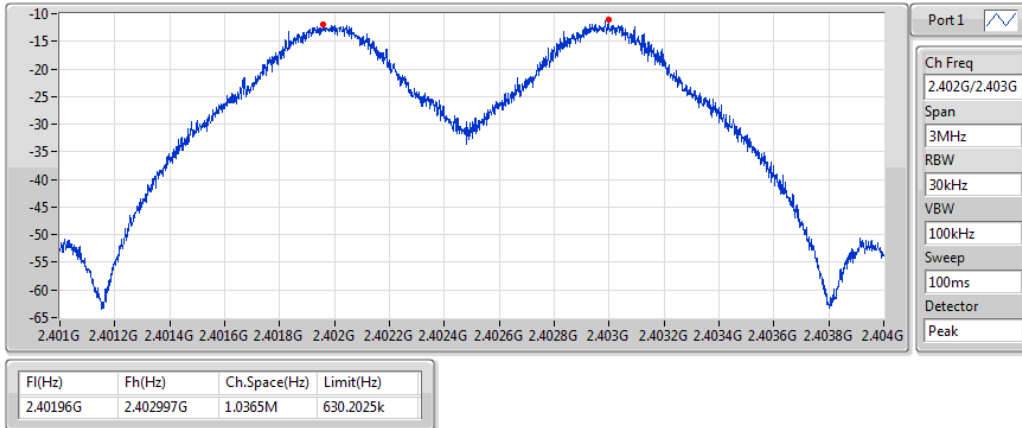
Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.40196G	2.402997G	1.0365M	630.2025k
2441MHz	Pass	2.440987G	2.441992G	1.005M	651.015k
2480MHz	Pass	2.478938G	2.47994G	1.002M	603.5625k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.401962G	2.402965G	1.0035M	889.11k
2441MHz	Pass	2.440747G	2.441968G	1.221M	891.108k
2480MHz	Pass	2.478954G	2.479964G	1.0095M	903.096k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.401701G	2.402703G	1.002M	901.098k
2441MHz	Pass	2.440701G	2.441908G	1.2075M	884.448k
2480MHz	Pass	2.478695G	2.479692G	997.5k	896.436k

BT-BR(1Mbps)

Channel Separation

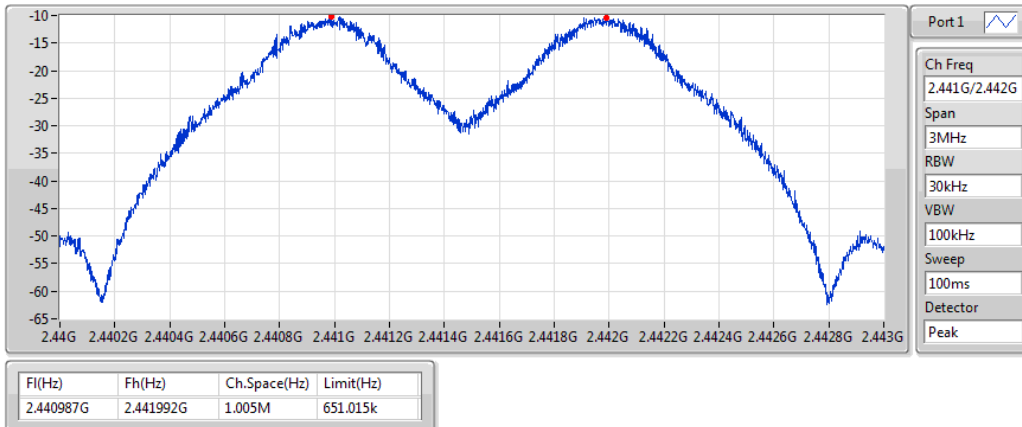
2.402G/2.403GHz



BT-BR(1Mbps)

Channel Separation

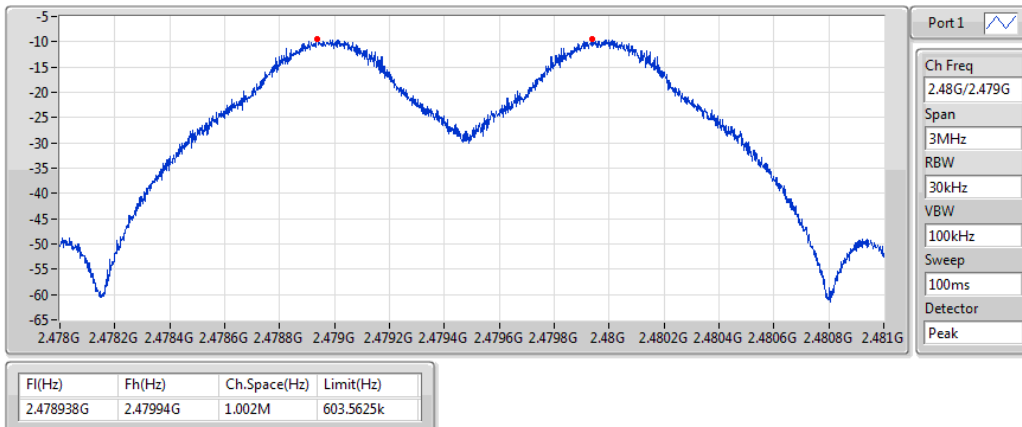
2.441G/2.442GHz



BT-BR(1Mbps)

Channel Separation

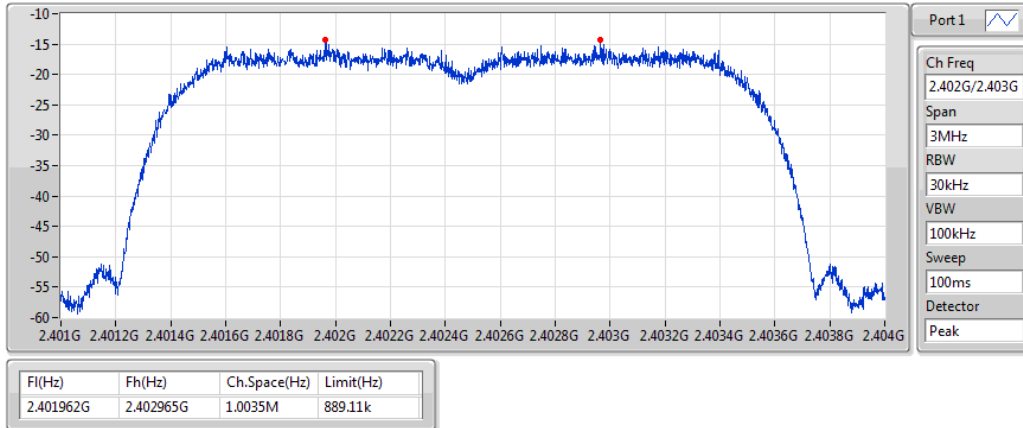
2.48G/2.479GHz



BT-EDR(2Mbps)

Channel Separation

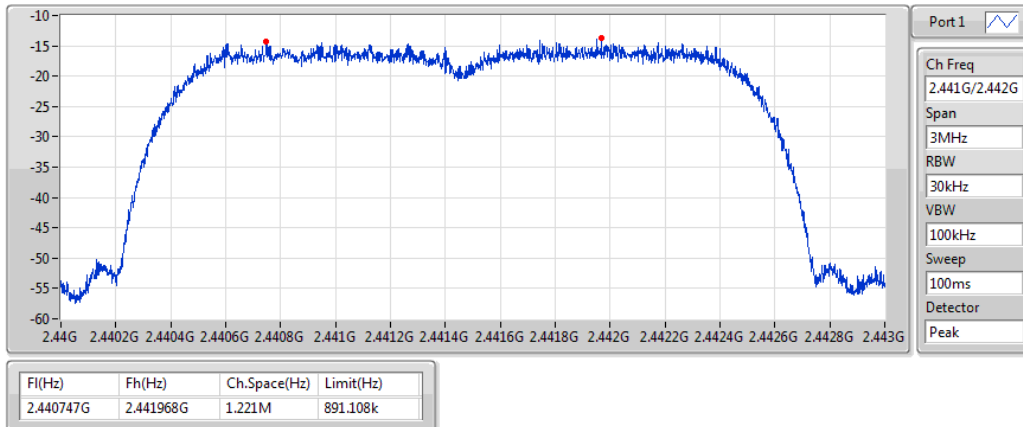
2.402G/2.403GHz



BT-EDR(2Mbps)

Channel Separation

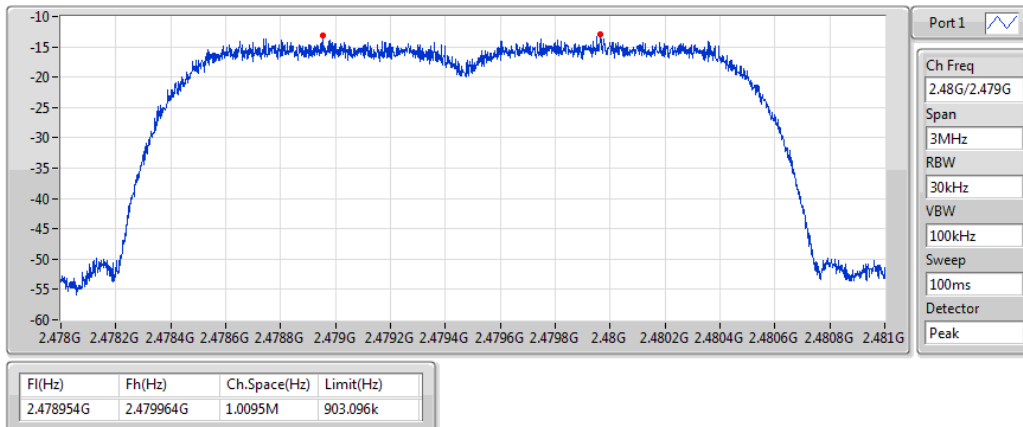
2.441G/2.442GHz



BT-EDR(2Mbps)

Channel Separation

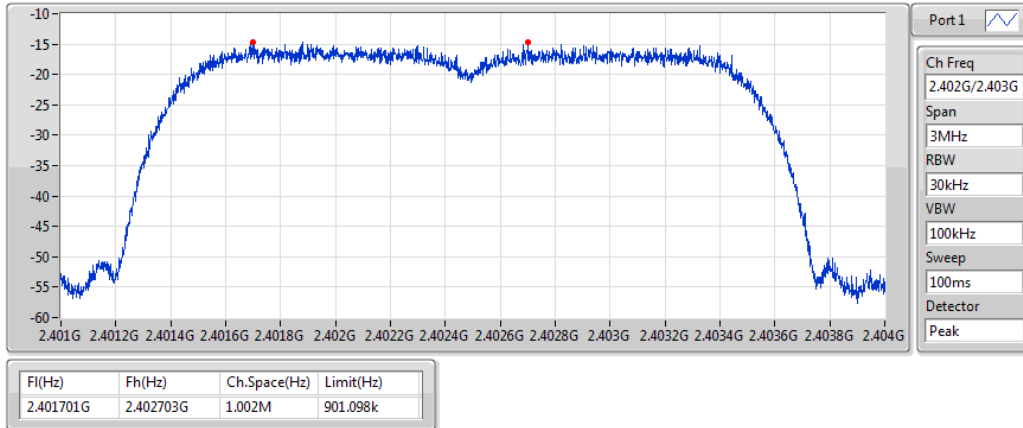
2.48G/2.479GHz



BT-EDR(3Mbps)

Channel Separation

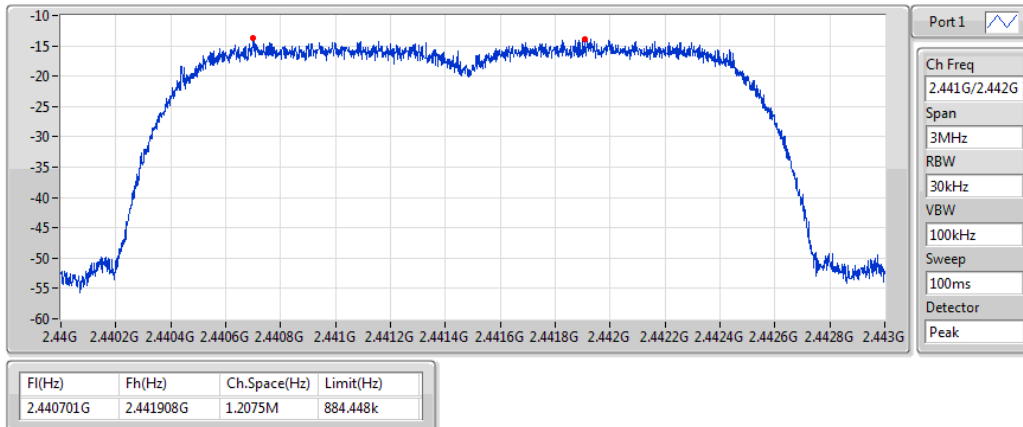
2.402G/2.403GHz



BT-EDR(3Mbps)

Channel Separation

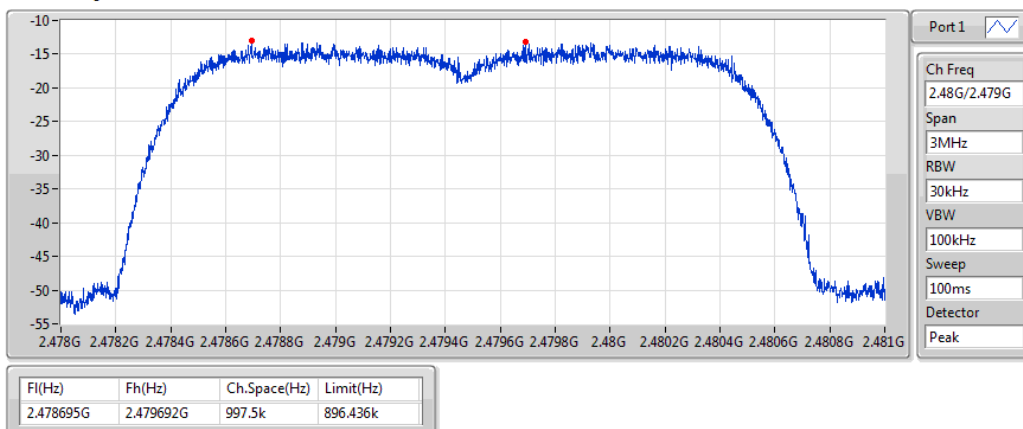
2.441G/2.442GHz



BT-EDR(3Mbps)

Channel Separation

2.48G/2.479GHz



Summary

Mode	Power (dBm)	Power (W)
BT-BR(1Mbps)	-	-
2.4-2.4835GHz	7.75	0.00596
BT-EDR(2Mbps)	-	-
2.4-2.4835GHz	8.71	0.00743
BT-EDR(3Mbps)	-	-
2.4-2.4835GHz	9.36	0.00863

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.00	6.62	21.00
2441MHz	Pass	2.00	7.22	21.00
2480MHz	Pass	2.00	7.75	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.00	7.37	21.00
2441MHz	Pass	2.00	8.16	21.00
2480MHz	Pass	2.00	8.71	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.00	8.09	21.00
2441MHz	Pass	2.00	8.46	21.00
2480MHz	Pass	2.00	9.36	21.00

Summary

Mode	Power (dBm)	Power (W)
BT-BR(1Mbps)	-	-
2.4-2.4835GHz	7.57	0.00571
BT-EDR(2Mbps)	-	-
2.4-2.4835GHz	6.31	0.00428
BT-EDR(3Mbps)	-	-
2.4-2.4835GHz	6.62	0.00459

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.00	6.41	21.00
2441MHz	Pass	2.00	7.03	21.00
2480MHz	Pass	2.00	7.57	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.00	4.92	21.00
2441MHz	Pass	2.00	5.75	21.00
2480MHz	Pass	2.00	6.31	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.00	5.23	21.00
2441MHz	Pass	2.00	5.63	21.00
2480MHz	Pass	2.00	6.62	21.00

Summary

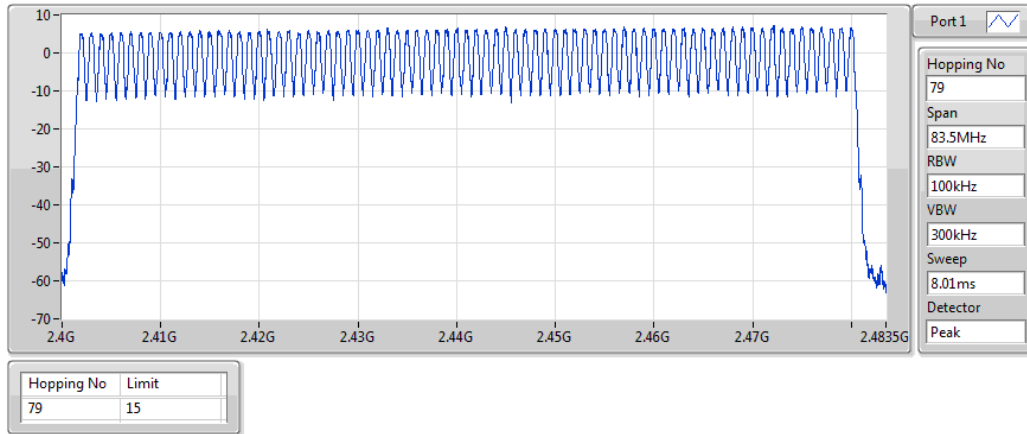
Mode	Max-Hop No
BT-BR(1Mbps)	-
2.4-2.4835GHz	79
BT-EDR(2Mbps)	-
2.4-2.4835GHz	79
BT-EDR(3Mbps)	-
2.4-2.4835GHz	79

Result

Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2441MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2441MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2441MHz	Pass	79	15

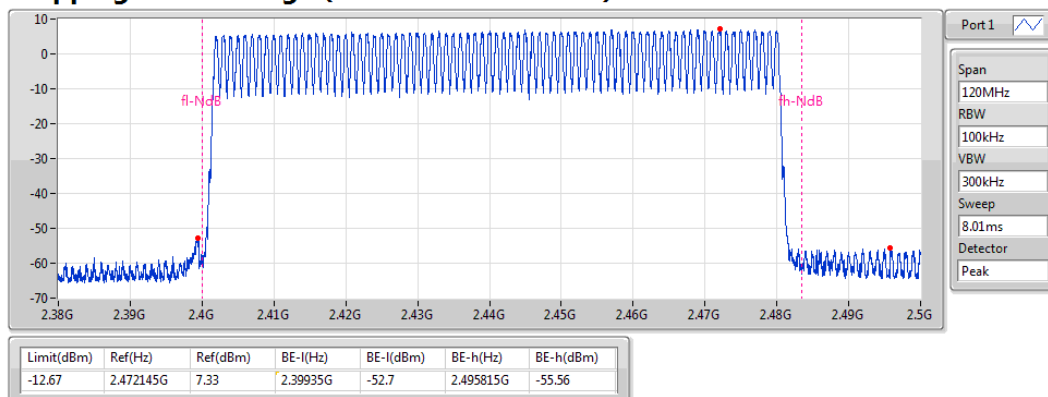
BT-BR(1Mbps) 2441MHz

Hopping Ch



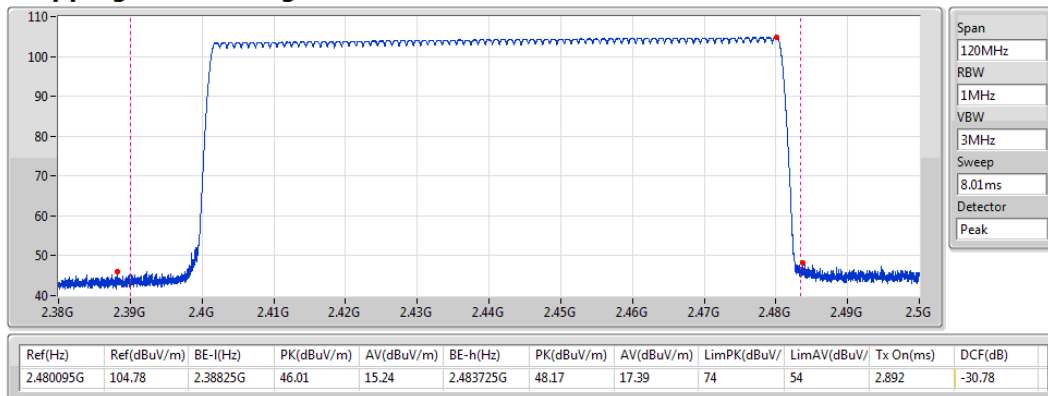
BT-BR(1Mbps) 2441MHz

Hopping Ch Bandedge (Non-restricted Band)



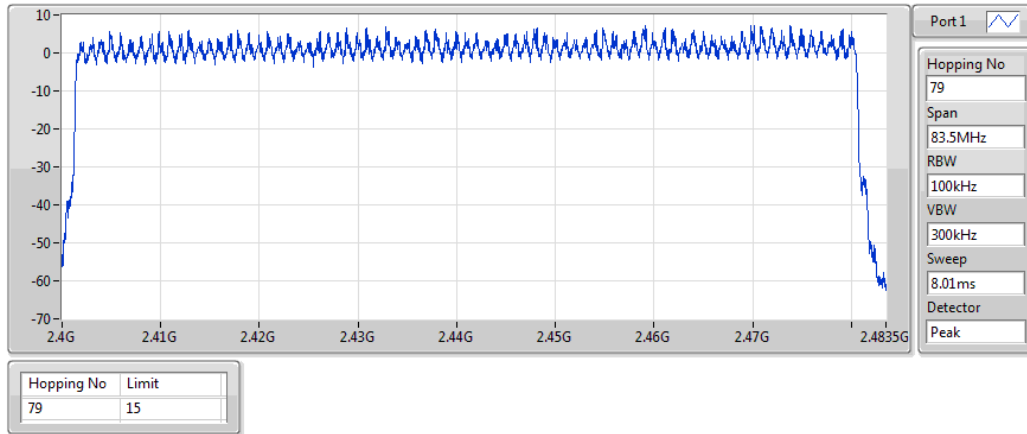
BT-BR(1Mbps) 2441MHz

Hopping Ch Bandedge (Restricted Band)



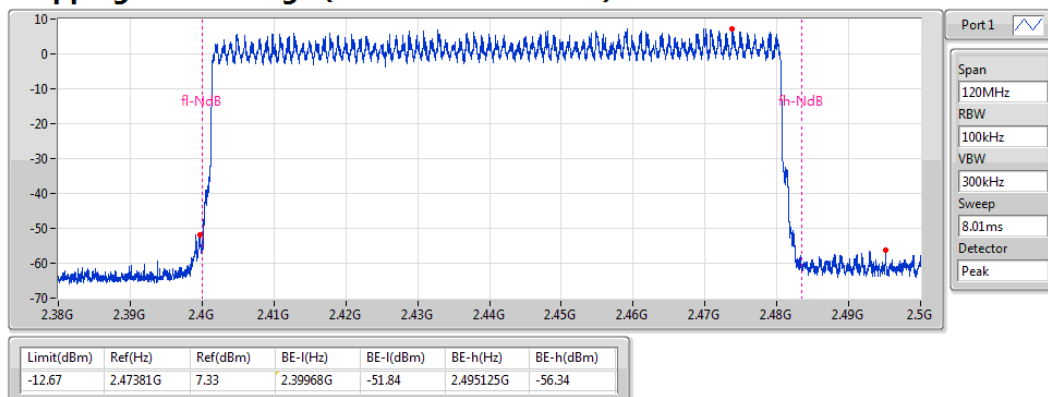
BT-EDR(2Mbps) 2441MHz

Hopping Ch



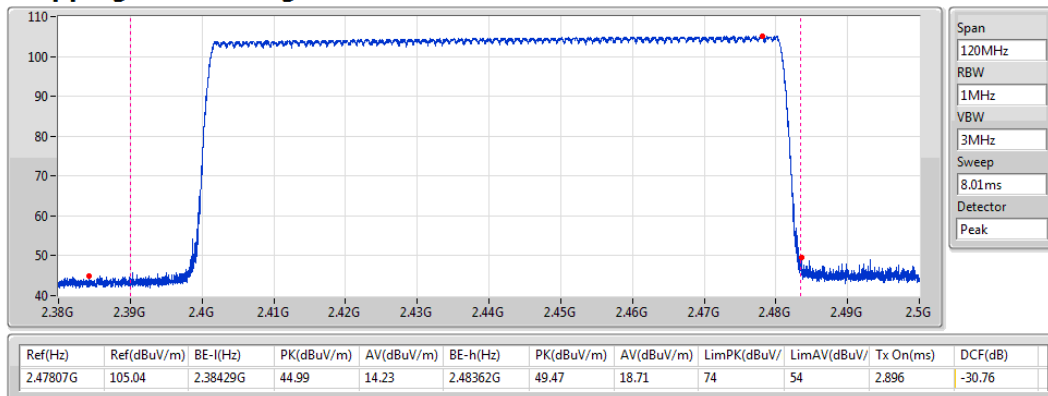
BT-EDR(2Mbps) 2441MHz

Hopping Ch Bandedge (Non-restricted Band)



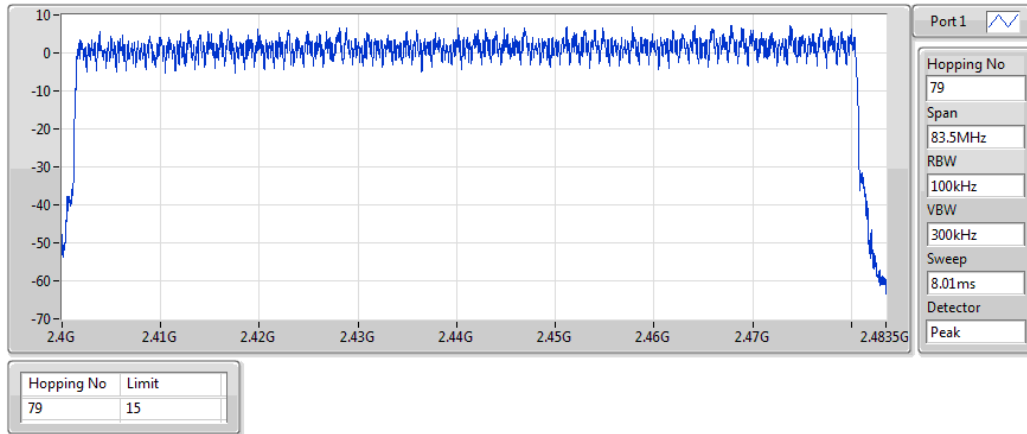
BT-EDR(2Mbps) 2441MHz

Hopping Ch Bandedge (Restricted Band)



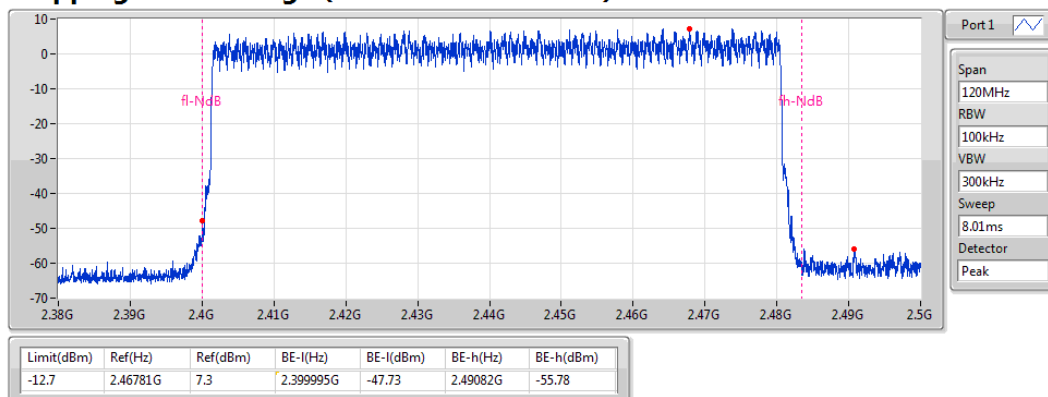
BT-EDR(3Mbps) 2441MHz

Hopping Ch



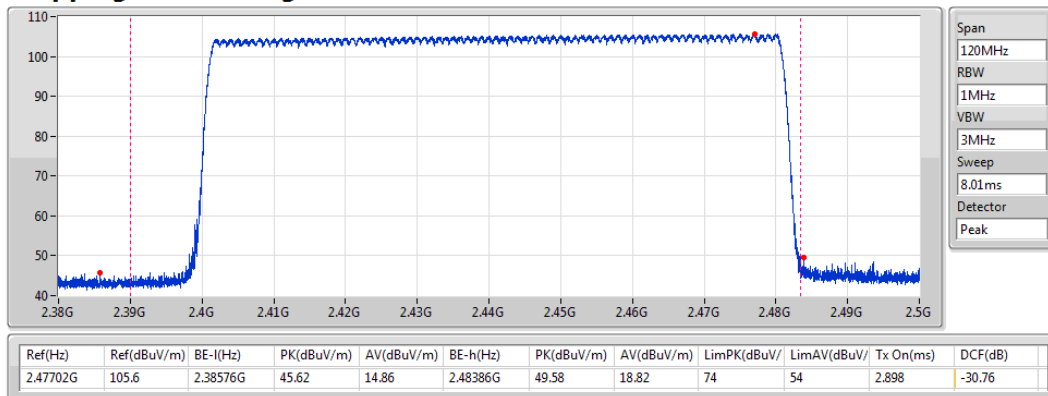
BT-EDR(3Mbps) 2441MHz

Hopping Ch Bandedge (Non-restricted Band)



BT-EDR(3Mbps) 2441MHz

Hopping Ch Bandedge (Restricted Band)



Summary

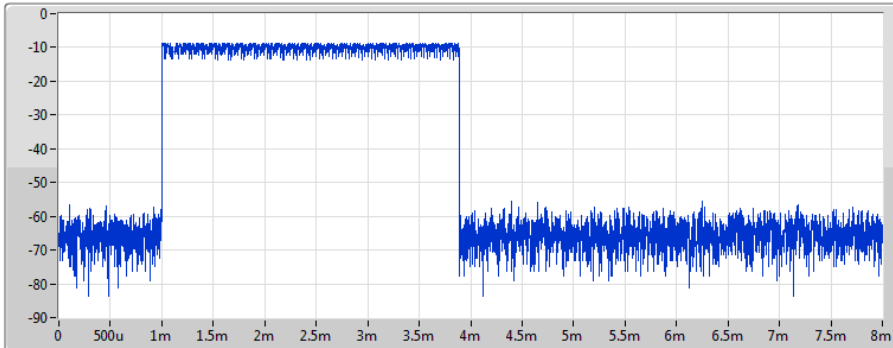
Mode	Max-Dwell (s)
BT-BR(1Mbps)	-
2.4-2.4835GHz	308.2872m
BT-EDR(2Mbps)	-
2.4-2.4835GHz	308.7136m
BT-EDR(3Mbps)	-
2.4-2.4835GHz	308.9268m

Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	308.2872m	400m	2.892m
BT-EDR(2Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	308.7136m	400m	2.896m
BT-EDR(3Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	308.9268m	400m	2.898m

BT-BR(1Mbps)

2441MHz



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

Dwell

Port 1 

Ch Freq
2.441GHz

RBW
300kHz

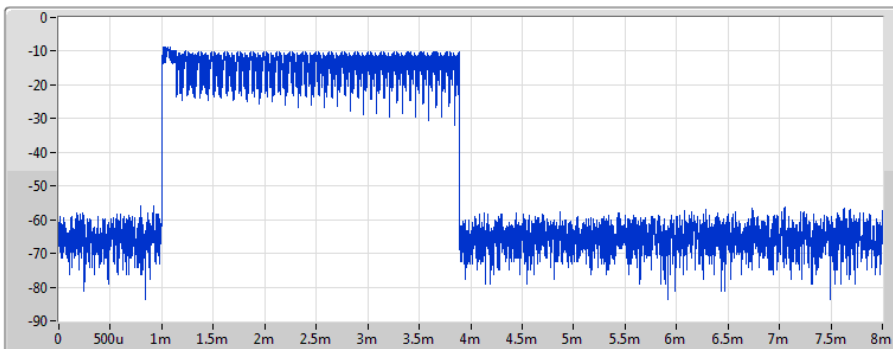
VBW
1MHz

Sweep Time
8ms

TX Time
2.892ms

BT-EDR(2Mbps)

2441MHz



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

Dwell

Port 1 

Ch Freq
2.441GHz

RBW
300kHz

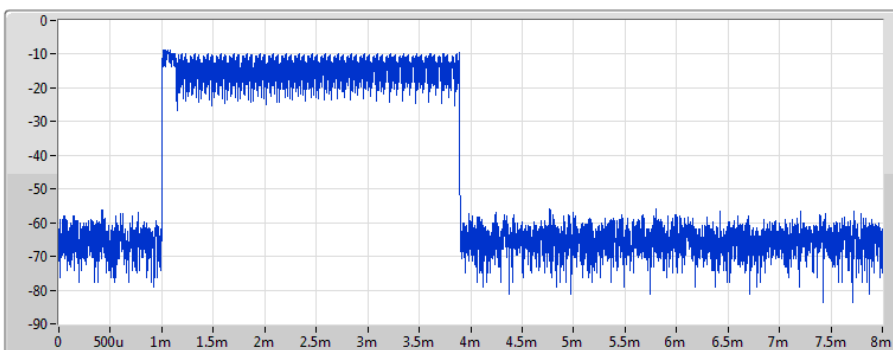
VBW
1MHz

Sweep Time
8ms

TX Time
2.896ms

BT-EDR(3Mbps)

2441MHz



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

Dwell

Port 1 

Ch Freq
2.441GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.898ms

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	2.401503G	1.82	-18.18	147.216M	-43.83	2.39962G	-46.07	2.483596G	-62.37	3.200335G	-50.24	1

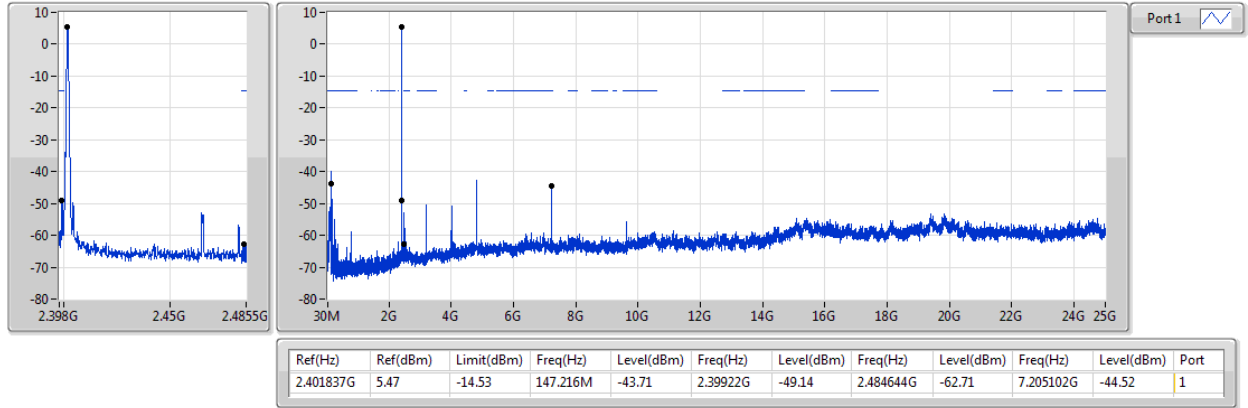
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.401837G	5.47	-14.53	147.216M	-43.71	2.39922G	-49.14	2.484644G	-62.71	7.205102G	-44.52	1
2441MHz	Pass	2.440915G	6.15	-13.85	147.216M	-43.73	2.399804G	-62.42	2.483816G	-62.47	3.253807G	-50.02	1
2480MHz	Pass	2.48016G	6.75	-13.25	147.216M	-43.53	2.399968G	-58.54	2.483508G	-57.62	3.304465G	-50.58	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402004G	2.84	-17.16	147.216M	-43.77	2.399528G	-48.91	2.484744G	-63.76	7.205102G	-46.63	1
2441MHz	Pass	2.440915G	4.56	-15.44	147.216M	-43.81	2.399704G	-63.10	2.484392G	-62.70	3.253807G	-52.60	1
2480MHz	Pass	2.479659G	4.02	-15.98	147.216M	-43.88	2.399824G	-59.57	2.48358G	-55.60	3.304465G	-51.88	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.401503G	1.82	-18.18	147.216M	-43.83	2.39962G	-46.07	2.483596G	-62.37	3.200335G	-50.24	1
2441MHz	Pass	2.440915G	3.17	-16.83	147.216M	-43.81	2.399868G	-63.32	2.484672G	-62.67	3.253807G	-51.62	1
2480MHz	Pass	2.48016G	3.89	-16.11	147.216M	-43.84	2.39984G	-60.22	2.483576G	-58.36	3.304465G	-52.45	1

BT-BR(1Mbps)

CSE NdB

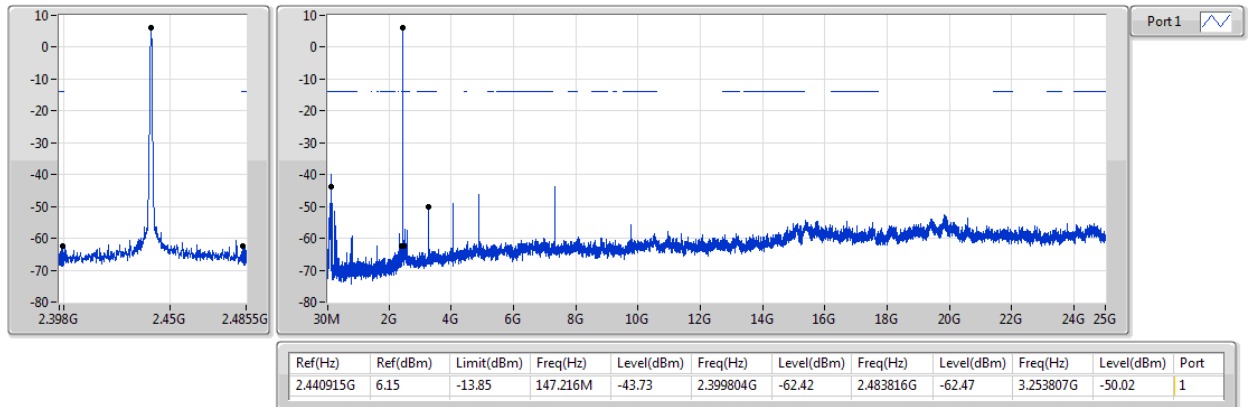
2402MHz



BT-BR(1Mbps)

CSE NdB

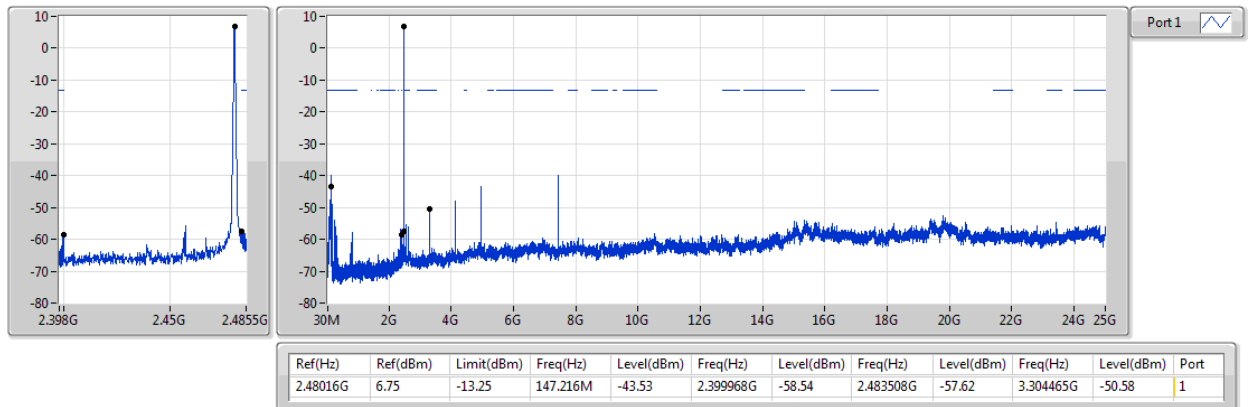
2441MHz



BT-BR(1Mbps)

CSE NdB

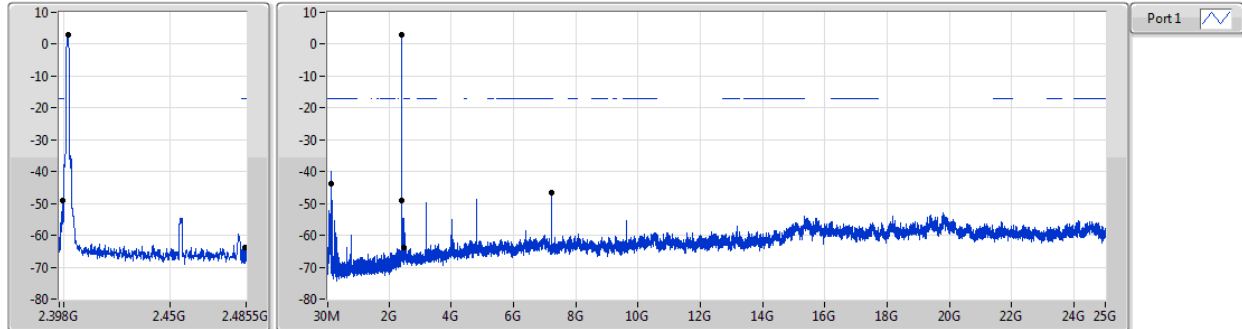
2480MHz



BT-EDR(2Mbps)

CSE NdB

2402MHz

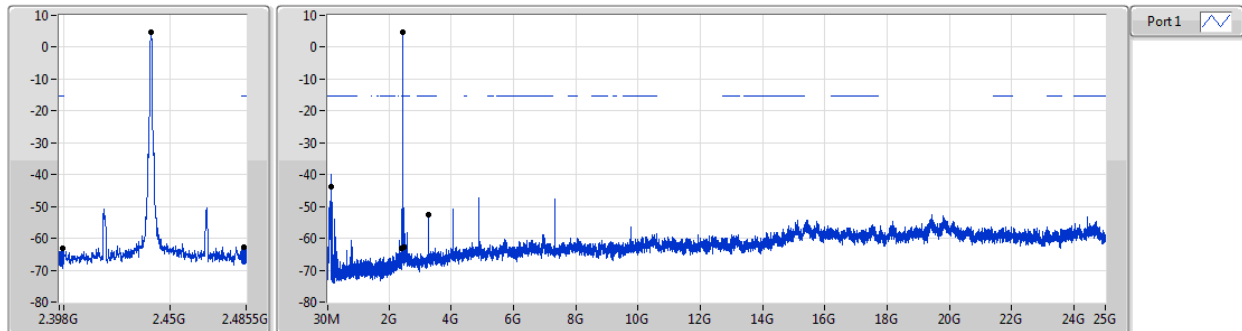


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402004G	2.84	-17.16	147.216M	-43.77	2.399528G	-48.91	2.484744G	-63.76	7.205102G	-46.63	1

BT-EDR(2Mbps)

CSE NdB

2441MHz

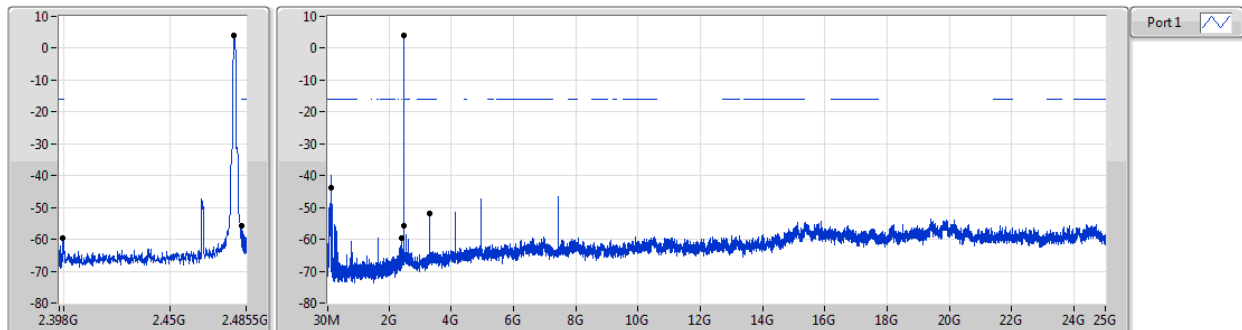


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.440915G	4.56	-15.44	147.216M	-43.81	2.399704G	-63.10	2.484392G	-62.70	3.253807G	-52.60	1

BT-EDR(2Mbps)

CSE NdB

2480MHz

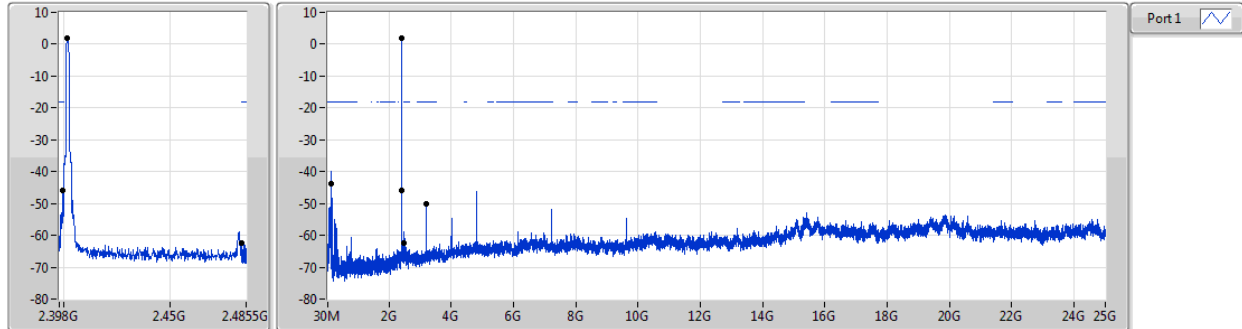


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.479659G	4.02	-15.98	147.216M	-43.88	2.399824G	-59.57	2.48358G	-55.60	3.304465G	-51.88	1

BT-EDR(3Mbps)

CSE NdB

2402MHz

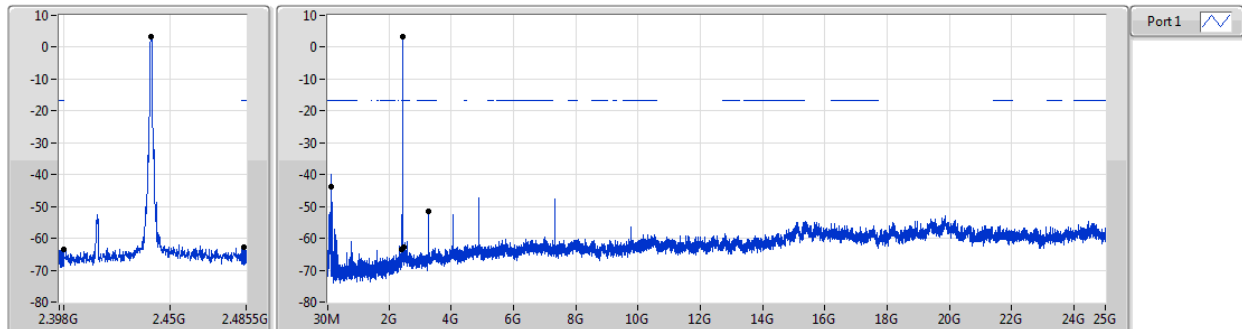


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.401503G	1.82	-18.18	147.216M	-43.83	2.39962G	-46.07	2.483596G	-62.37	3.200335G	-50.24	1

BT-EDR(3Mbps)

CSE NdB

2441MHz

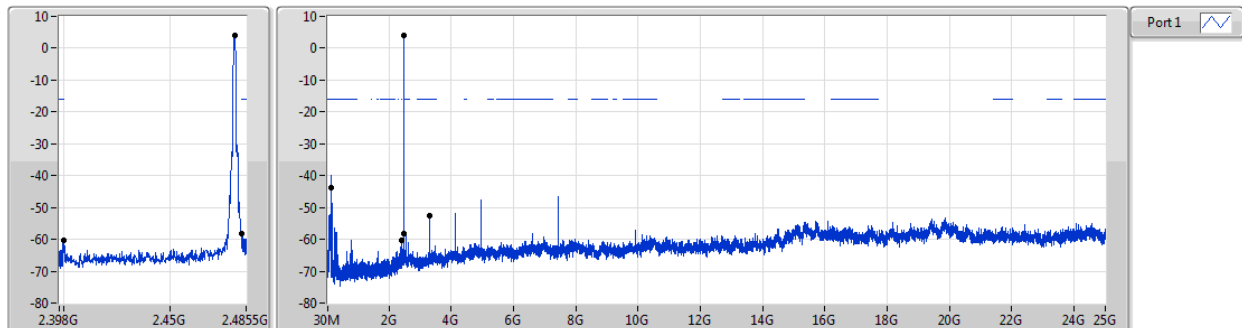


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.440915G	3.17	-16.83	147.216M	-43.81	2.399868G	-63.32	2.484672G	-62.67	3.253807G	-51.62	1

BT-EDR(3Mbps)

CSE NdB

2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.48016G	3.89	-16.11	147.216M	-43.84	2.39984G	-60.22	2.483576G	-58.36	3.304465G	-52.45	1



RSE below 1GHz Result

Appendix G

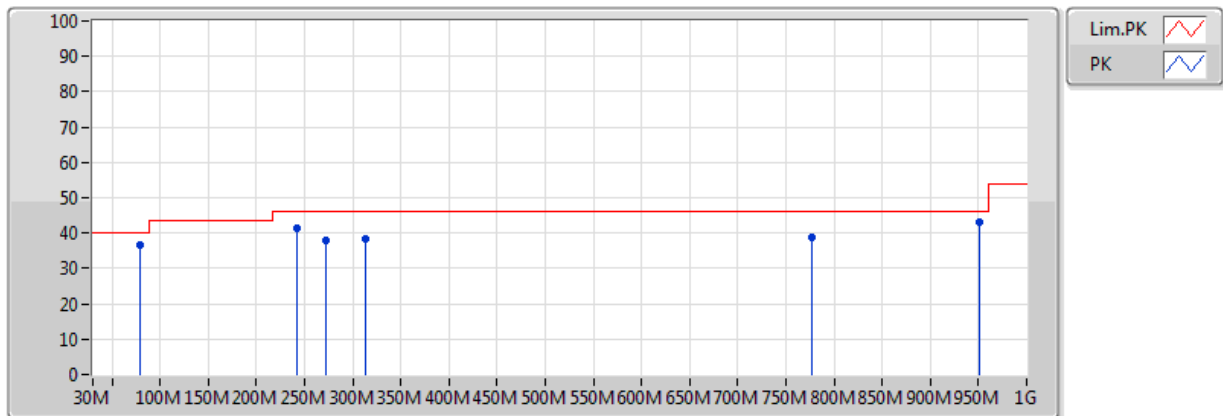
Summary

Mode	Result	Type	Freq (Hz)	Level	Limit	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1.	Pass	PK	951.5M	42.89	46.00	-3.11	-2.41	3	Vertical	360	1.00	-
Mode 2.	Pass	PK	776.9M	42.34	46.00	-3.66	-5.78	3	Vertical	360	1.00	-
Mode 3.	Pass	PK	776.9M	42.50	46.00	-3.50	-5.78	3	Vertical	360	1.00	-
Mode 4.	Pass	PK	286.08M	42.78	46.00	-3.22	-15.78	3	Horizontal	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level	Limit	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1.	Pass	PK	82.38M	30.96	40.00	-9.04	-22.83	3	Horizontal	0	1.00	-
Mode 1.	Pass	PK	152.22M	25.92	43.50	-17.58	-18.57	3	Horizontal	0	1.00	-
Mode 1.	Pass	PK	286.08M	42.66	46.00	-3.34	-15.78	3	Horizontal	0	1.00	-
Mode 1.	Pass	PK	776.9M	41.39	46.00	-4.61	-5.78	3	Horizontal	0	1.00	-
Mode 1.	Pass	PK	904.94M	40.41	46.00	-5.59	-4.48	3	Horizontal	0	1.00	-
Mode 1.	Pass	PK	951.5M	41.52	46.00	-4.48	-2.41	3	Horizontal	0	1.00	-
Mode 1.	Pass	PK	78.5M	36.45	40.00	-3.55	-23.41	3	Vertical	360	1.00	-
Mode 1.	Pass	PK	241.46M	41.20	46.00	-4.80	-17.57	3	Vertical	360	1.00	-
Mode 1.	Pass	PK	272.5M	37.75	46.00	-8.25	-15.58	3	Vertical	360	1.00	-
Mode 1.	Pass	PK	313.24M	38.47	46.00	-7.53	-15.14	3	Vertical	360	1.00	-
Mode 1.	Pass	PK	951.5M	42.89	46.00	-3.11	-2.41	3	Vertical	360	1.00	-
Mode 1.	Pass	QP	776.9M	38.64	46.00	-7.36	-5.78	3	Vertical	36	2.22	-
Mode 2.	Pass	PK	101.78M	35.48	43.50	-8.02	-20.12	3	Horizontal	0	1.00	-
Mode 2.	Pass	PK	266.68M	29.71	46.00	-16.29	-15.28	3	Horizontal	0	1.00	-
Mode 2.	Pass	PK	303.54M	32.64	46.00	-13.36	-15.29	3	Horizontal	0	1.00	-
Mode 2.	Pass	PK	804.06M	40.82	46.00	-5.18	-5.62	3	Horizontal	0	1.00	-
Mode 2.	Pass	PK	951.5M	40.62	46.00	-5.38	-2.41	3	Horizontal	0	1.00	-
Mode 2.	Pass	QP	776.9M	38.10	46.00	-7.90	-5.78	3	Horizontal	231	1.20	-
Mode 2.	Pass	PK	225.94M	36.76	46.00	-9.24	-19.21	3	Vertical	360	1.00	-
Mode 2.	Pass	PK	256.98M	36.27	46.00	-9.73	-15.37	3	Vertical	360	1.00	-
Mode 2.	Pass	PK	346.22M	39.08	46.00	-6.92	-14.23	3	Vertical	360	1.00	-
Mode 2.	Pass	PK	776.9M	42.34	46.00	-3.66	-5.78	3	Vertical	360	1.00	-
Mode 2.	Pass	PK	951.5M	41.87	46.00	-4.13	-2.41	3	Vertical	360	1.00	-
Mode 2.	Pass	QP	86.26M	33.62	40.00	-6.38	-22.28	3	Vertical	5	2.24	-
Mode 3.	Pass	PK	81.41M	35.96	40.00	-4.04	-22.96	3	Vertical	360	1.00	-
Mode 3.	Pass	PK	88.2M	30.94	43.50	-12.56	-21.97	3	Horizontal	0	1.00	-
Mode 3.	Pass	PK	210.42M	26.68	43.50	-16.82	-19.96	3	Horizontal	0	1.00	-
Mode 3.	Pass	PK	259.89M	41.44	46.00	-4.56	-14.96	3	Vertical	360	1.00	-
Mode 3.	Pass	PK	289.96M	38.54	46.00	-7.46	-15.65	3	Horizontal	0	1.00	-
Mode 3.	Pass	PK	603.27M	34.32	46.00	-11.68	-8.52	3	Vertical	360	1.00	-
Mode 3.	Pass	PK	776.9M	42.50	46.00	-3.50	-5.78	3	Vertical	360	1.00	-
Mode 3.	Pass	PK	776.9M	41.91	46.00	-4.09	-5.78	3	Horizontal	0	1.00	-
Mode 3.	Pass	PK	804.06M	40.76	46.00	-5.24	-5.62	3	Horizontal	0	1.00	-
Mode 3.	Pass	PK	951.5M	42.43	46.00	-3.57	-2.41	3	Vertical	360	1.00	-
Mode 3.	Pass	PK	951.5M	41.40	46.00	-4.60	-2.41	3	Horizontal	0	1.00	-
Mode 3.	Pass	QP	238.55M	38.12	46.00	-7.88	-17.93	3	Vertical	333	1.00	-
Mode 4.	Pass	PK	84.32M	30.42	40.00	-9.58	-22.57	3	Horizontal	0	1.00	-
Mode 4.	Pass	PK	264.74M	28.93	46.00	-17.07	-15.18	3	Horizontal	0	1.00	-
Mode 4.	Pass	PK	286.08M	42.78	46.00	-3.22	-15.78	3	Horizontal	0	1.00	-
Mode 4.	Pass	PK	720.64M	33.19	46.00	-12.81	-7.04	3	Horizontal	0	1.00	-
Mode 4.	Pass	PK	776.9M	41.20	46.00	-4.80	-5.78	3	Horizontal	0	1.00	-
Mode 4.	Pass	PK	951.5M	40.96	46.00	-5.04	-2.41	3	Horizontal	0	1.00	-
Mode 4.	Pass	PK	86.26M	35.66	40.00	-4.34	-22.28	3	Vertical	360	1.00	-
Mode 4.	Pass	PK	245.34M	39.83	46.00	-6.17	-17.03	3	Vertical	360	1.00	-
Mode 4.	Pass	PK	260.86M	37.87	46.00	-8.13	-14.98	3	Vertical	360	1.00	-
Mode 4.	Pass	PK	602.3M	33.94	46.00	-12.06	-8.55	3	Vertical	360	1.00	-
Mode 4.	Pass	PK	776.9M	42.07	46.00	-3.93	-5.78	3	Vertical	360	1.00	-
Mode 4.	Pass	PK	951.5M	41.26	46.00	-4.74	-2.41	3	Vertical	360	1.00	-

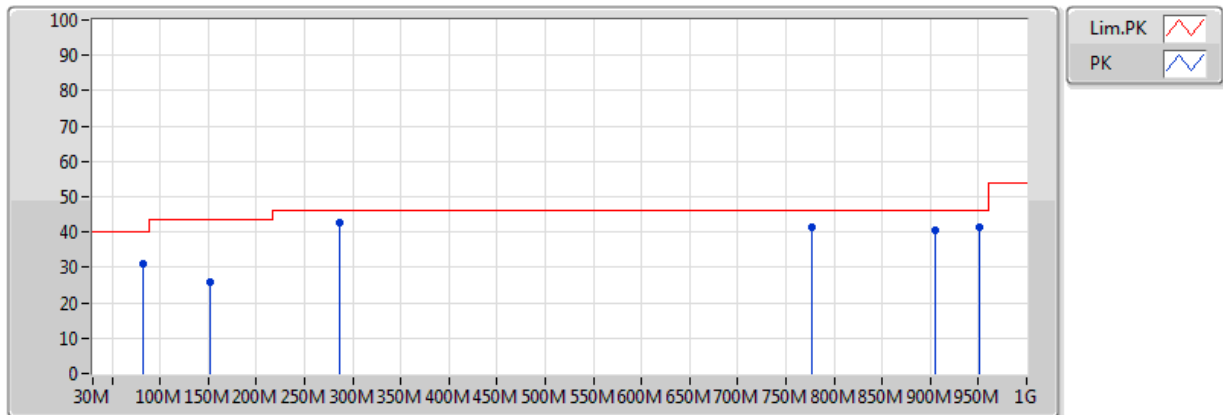
Radiated-below 1GHz_Mode 1



EUT = Y axis With Stand

Type	Freq(Hz)	Level	Limit	Margin(dB)	Factor(dB)	Dist(m)	Condition	Azimuth(°)	Height(m)	Comments
PK	78.5M	36.45	40.00	-3.55	-23.41	3	Vertical	360	1.00	-
PK	241.46M	41.20	46.00	-4.80	-17.57	3	Vertical	360	1.00	-
PK	272.5M	37.75	46.00	-8.25	-15.58	3	Vertical	360	1.00	-
PK	313.24M	38.47	46.00	-7.53	-15.14	3	Vertical	360	1.00	-
PK	951.5M	42.89	46.00	-3.11	-2.41	3	Vertical	360	1.00	-
QP	776.9M	38.64	46.00	-7.36	-5.78	3	Vertical	36	2.22	-

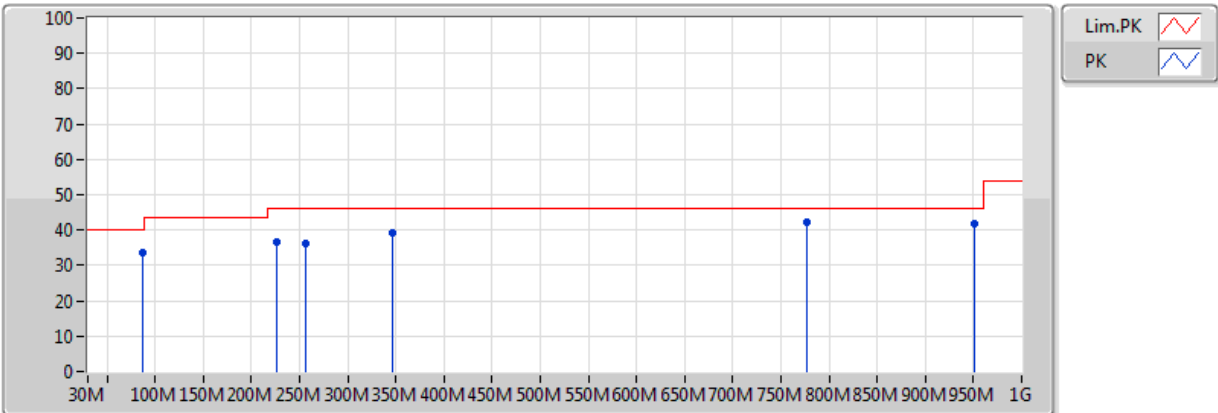
Radiated-below 1GHz_Mode 1



EUT = Y axis With Stand

Type	Freq(Hz)	Level	Limit	Margin(dB)	Factor(dB)	Dist(m)	Condition	Azimuth(°)	Height(m)	Comments
PK	82.38M	30.96	40.00	-9.04	-22.83	3	Horizontal	0	1.00	-
PK	152.22M	25.92	43.50	-17.58	-18.57	3	Horizontal	0	1.00	-
PK	286.08M	42.66	46.00	-3.34	-15.78	3	Horizontal	0	1.00	-
PK	776.9M	41.39	46.00	-4.61	-5.78	3	Horizontal	0	1.00	-
PK	904.94M	40.41	46.00	-5.59	-4.48	3	Horizontal	0	1.00	-
PK	951.5M	41.52	46.00	-4.48	-2.41	3	Horizontal	0	1.00	-

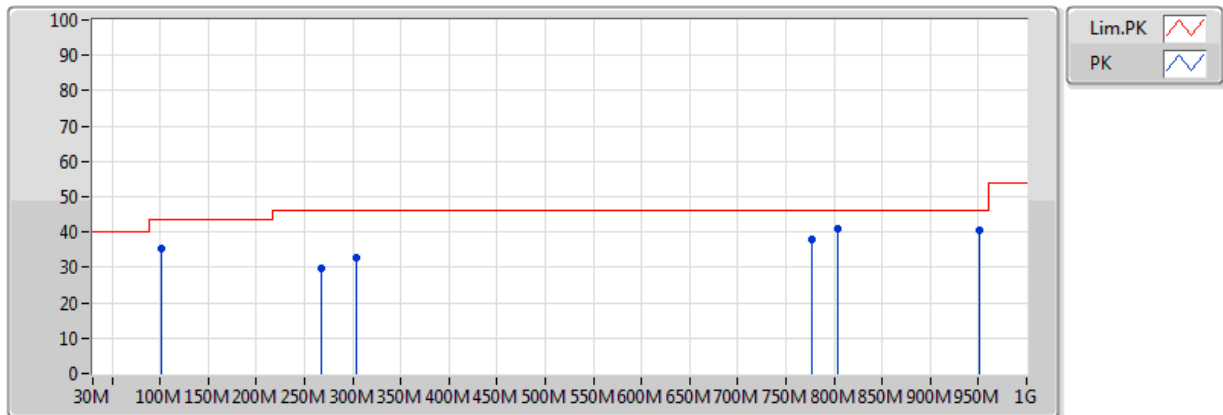
Radiated-below 1GHz_Mode 2



EUT = Y axis With Stand

Type	Freq(Hz)	Level	Limit	Margin(dB)	Factor(dB)	Dist(m)	Condition	Azimuth(°)	Height(m)	Comments
PK	225.94M	36.76	46.00	-9.24	-19.21	3	Vertical	360	1.00	-
PK	256.98M	36.27	46.00	-9.73	-15.37	3	Vertical	360	1.00	-
PK	346.22M	39.08	46.00	-6.92	-14.23	3	Vertical	360	1.00	-
PK	776.9M	42.34	46.00	-3.66	-5.78	3	Vertical	360	1.00	-
PK	951.5M	41.87	46.00	-4.13	-2.41	3	Vertical	360	1.00	-
QP	86.26M	33.62	40.00	-6.38	-22.28	3	Vertical	5	2.24	-

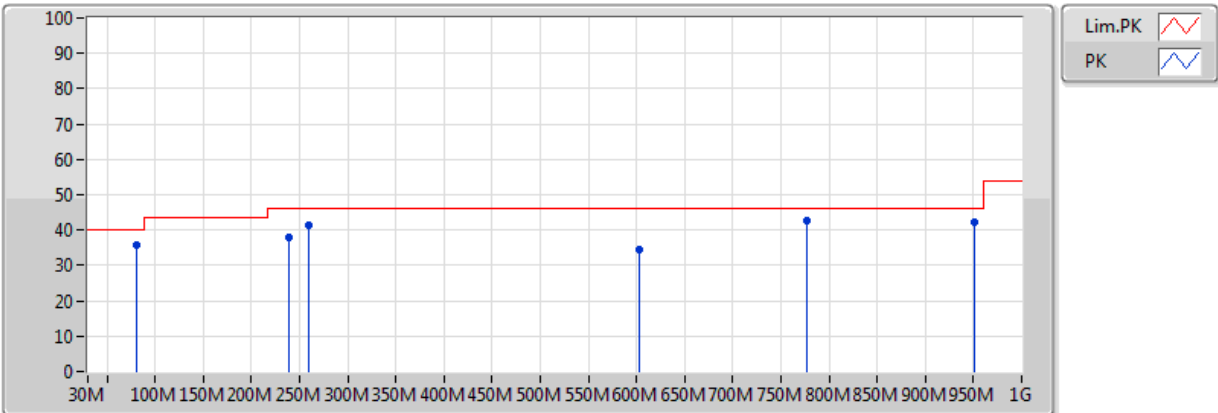
Radiated-below 1GHz_Mode 2



EUT = Y axis With Stand

Type	Freq(Hz)	Level	Limit	Margin(dB)	Factor(dB)	Dist(m)	Condition	Azimuth(°)	Height(m)	Comments
PK	101.78M	35.48	43.50	-8.02	-20.12	3	Horizontal	0	1.00	-
PK	266.68M	29.71	46.00	-16.29	-15.28	3	Horizontal	0	1.00	-
PK	303.54M	32.64	46.00	-13.36	-15.29	3	Horizontal	0	1.00	-
PK	804.06M	40.82	46.00	-5.18	-5.62	3	Horizontal	0	1.00	-
PK	951.5M	40.62	46.00	-5.38	-2.41	3	Horizontal	0	1.00	-
QP	776.9M	38.10	46.00	-7.90	-5.78	3	Horizontal	231	1.20	-

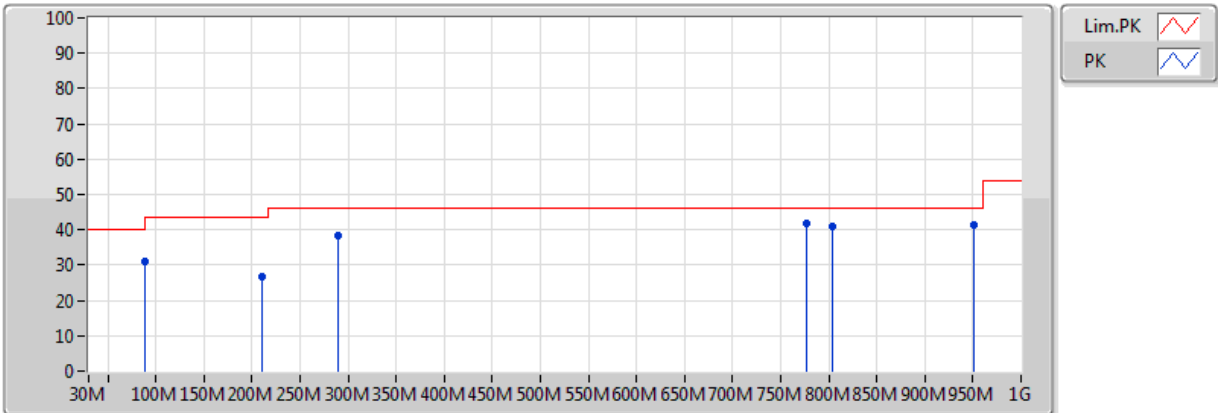
Radiated-below 1GHz_Mode 3



EUT = Z axis With Stand

Type	Freq(Hz)	Level	Limit	Margin(dB)	Factor(dB)	Dist(m)	Condition	Azimuth(°)	Height(m)	Comments
PK	81.41M	35.96	40.00	-4.04	-22.96	3	Vertical	360	1.00	-
PK	259.89M	41.44	46.00	-4.56	-14.96	3	Vertical	360	1.00	-
PK	603.27M	34.32	46.00	-11.68	-8.52	3	Vertical	360	1.00	-
PK	776.9M	42.50	46.00	-3.50	-5.78	3	Vertical	360	1.00	-
PK	951.5M	42.43	46.00	-3.57	-2.41	3	Vertical	360	1.00	-
QP	238.55M	38.12	46.00	-7.88	-17.93	3	Vertical	333	1.00	-

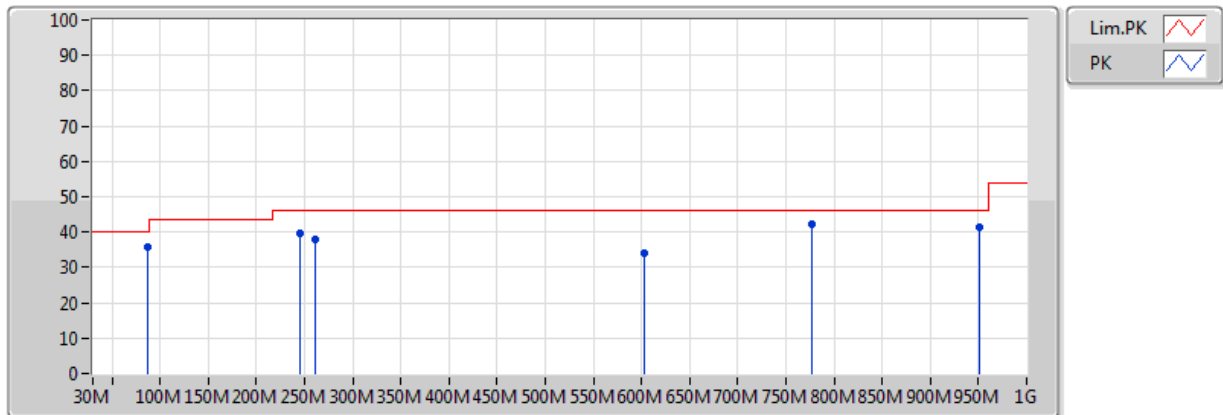
Radiated-below 1GHz_Mode 3



EUT = Z axis With Stand

Type	Freq(Hz)	Level	Limit	Margin(dB)	Factor(dB)	Dist(m)	Condition	Azimuth(°)	Height(m)	Comments
PK	88.2M	30.94	43.50	-12.56	-21.97	3	Horizontal	0	1.00	-
PK	210.42M	26.68	43.50	-16.82	-19.96	3	Horizontal	0	1.00	-
PK	289.96M	38.54	46.00	-7.46	-15.65	3	Horizontal	0	1.00	-
PK	776.9M	41.91	46.00	-4.09	-5.78	3	Horizontal	0	1.00	-
PK	804.06M	40.76	46.00	-5.24	-5.62	3	Horizontal	0	1.00	-
PK	951.5M	41.40	46.00	-4.60	-2.41	3	Horizontal	0	1.00	-

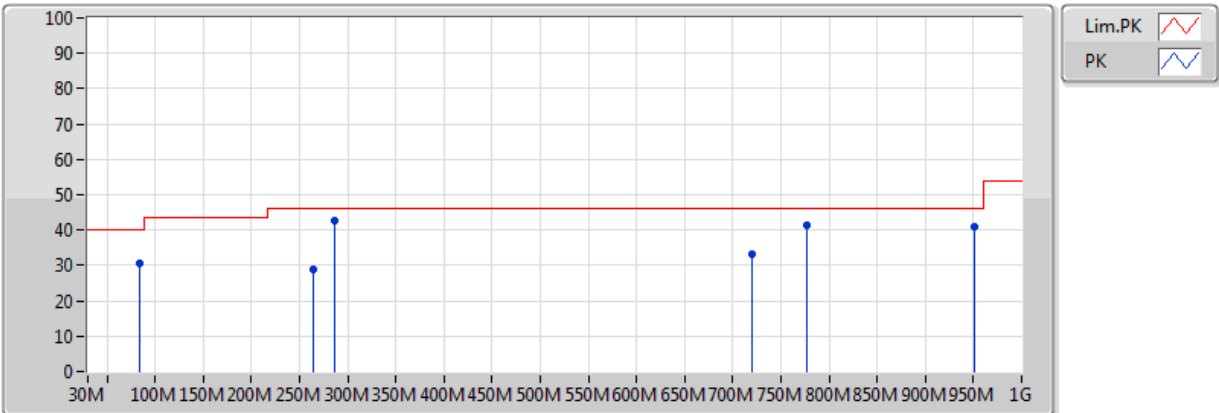
Radiated-below 1GHz_Mode 4



EUT = Y axis With Stand

Type	Freq(Hz)	Level	Limit	Margin(dB)	Factor(dB)	Dist(m)	Condition	Azimuth(°)	Height(m)	Comments
PK	86.26M	35.66	40.00	-4.34	-22.28	3	Vertical	360	1.00	-
PK	245.34M	39.83	46.00	-6.17	-17.03	3	Vertical	360	1.00	-
PK	260.86M	37.87	46.00	-8.13	-14.98	3	Vertical	360	1.00	-
PK	602.3M	33.94	46.00	-12.06	-8.55	3	Vertical	360	1.00	-
PK	776.9M	42.07	46.00	-3.93	-5.78	3	Vertical	360	1.00	-
PK	951.5M	41.26	46.00	-4.74	-2.41	3	Vertical	360	1.00	-

Radiated-below 1GHz_Mode 4



EUT = Y axis With Stand

Type	Freq(Hz)	Level	Limit	Margin(dB)	Factor(dB)	Dist(m)	Condition	Azimuth(°)	Height(m)	Comments
PK	84.32M	30.42	40.00	-9.58	-22.57	3	Horizontal	0	1.00	-
PK	264.74M	28.93	46.00	-17.07	-15.18	3	Horizontal	0	1.00	-
PK	286.08M	42.78	46.00	-3.22	-15.78	3	Horizontal	0	1.00	-
PK	720.64M	33.19	46.00	-12.81	-7.04	3	Horizontal	0	1.00	-
PK	776.9M	41.20	46.00	-4.80	-5.78	3	Horizontal	0	1.00	-
PK	951.5M	40.96	46.00	-5.04	-2.41	3	Horizontal	0	1.00	-