

FCC Test Report

Equipment : Rugged Tablet Computer
Brand Name : AAEON
Model No. : xRTC-1200x (x - Where x may be any combination of alphanumeric characters or "-" or blank.)
FCC ID : OHBRTC1200WBGH
Standard : 47 CFR FCC Part 15.247
RF Specification : Bluetooth BR/EDR
Frequency : 2400 MHz – 2483.5 MHz
FCC Classification : DSS
Applicant / Manufacturer : AAEON Technology Inc.
5F, No. 135, Lane 235, Pao Chiao Rd.,
Hsin-Tien Dist., New Taipei City 23145, Taiwan, R.O.C

The product sample received on Nov. 21, 2016 and completely tested on Dec. 09, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Reviewed by:

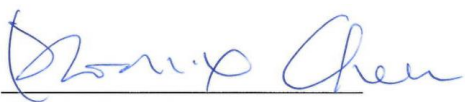

Phoenix Chen / Assistant Manager

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Appendix I. Test Result of AC Power-line Conducted Emissions

Appendix A.1~A.2. Test Result of Emission Bandwidth & Channel Separation

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Appendix F. Test Photos

Appendix EP. Photographs of EUT v01

Summary of Test Result

Conformance Test Specifications				
Report Clause	Ref. Std. Clause	Description	Limit	Result
1.1.3	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	N/A	Complied
3.2	15.247(a)	Carrier Frequency Separation (ChS)	$ChS \geq BW_{20dB} \times 2/3$	Complied
3.3	15.247(a)	Number of Hopping Frequencies (N)	$N \geq 15$	Complied
3.4	15.247(a)	Time of Occupancy (Dwell Time)	0.4 s within 0.4 x N	Complied
3.5	15.247(b)	RF Output Power	Power [dBm] BR:21 EDR:21	Complied
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	Non-Restricted Bands: > 20 dBc	Complied
3.7	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied

Revision History

[illegible]

1 General Description

1.1 Information

1.1.1 Product Details

The difference between the report no. : N/A	
The Difference	N/A

Evaluated Test Items	N/A
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1.1.2 RF General Information

Band	Mode	BWch (MHz)	Channel Number	Nss-Min	Nant
2.4G	BR / EDR	1	0-78 [79]	1	1

Note:

- ♦ 2.4G is the 2.4GHz Band (2.4-2.4835GHz).
- ♦ Bluetooth BR uses GFSK (1Mbps).
- ♦ Bluetooth EDR uses a combination of $\pi/4$ -DQPSK(2Mbps) and 8DPSK (3Mbps)
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs.

1.1.3 Antenna Information

Antenna Category	
☒	Integral antenna (antenna permanently attached)
☒	Temporary RF connector provided
☐	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.
☐	External antenna (dedicated antennas)
☐	Single power level with corresponding antenna(s).
☐	Multiple power level and corresponding antenna(s).

Antenna General Information				
No.	Ant. Cat.	Ant. Type	Model No.	Gain (dBi)
1	Integral	PCB	RFA-25-JP19-4-G-150	2.34

1.1.4 Type of EUT

Identify EUT	
EUT Serial Number	N/A
Presentation of Equipment	☒ Production ; ☐ Pre-Production ; ☐ Prototype
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:

1.1.5 Mode Test Duty Cycle

Mode	DC	T(s)
BT-BR	0.785	2.888m
BT-EDR2	0.785	2.89m
BT-EDR3	0.747	2.893m

1.1.6 EUT Operational Condition

Supply Voltage	☒ AC mains	☒ DC	
Type of DC Source	☒ External AC adapter	☐ From Host System	☒ Battery

1.1.7 EUT Operate Information

Items	Description	
Operate Condition	☒ Point-to-multipoint (P2M)	☐ Point-to-point (P2P)

1.2 Testing Applied Standards

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

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ Public Notice DA 00-705

1.3 Testing Location Information

Testing Location				
☒	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.		
		TEL : 886-3-327-3456 FAX : 886-3-327-0973		
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Ryan	23°C / 59%	09/12/2016
RF Conducted	TH01-HY	Ryan	24.8°C / 63%	07/12/2016
Radiated	03CH03-HY	Jeff	24.6°C / 55%	09/12/2016

Test site registered number [553509] with FCC.

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))

Measurement Uncertainty		
Test Item		Uncertainty
AC power-line conducted emissions		±2.3 dB
Emission bandwidth, 6dB bandwidth		±0.6 %
RF output power, conducted		±0.1 dB
Power density, conducted		±0.6 dB
Unwanted emissions, conducted	9 – 150 kHz	±0.4 dB
	0.15 – 30 MHz	±0.4 dB
	30 – 1000 MHz	±0.6 dB
	1 – 18 GHz	±0.5 dB
	18 – 40 GHz	±0.5 dB
	40 – 200 GHz	N/A
All emissions, radiated	9 – 150 kHz	±2.5 dB
	0.15 – 30 MHz	±2.3 dB
	30 – 1000 MHz	±2.6 dB
	1 – 18 GHz	±3.6 dB
	18 – 40 GHz	±3.8 dB
	40 – 200 GHz	N/A
Temperature		±0.8 °C
Humidity		±5 %
DC and low frequency voltages		±0.9%
Time		±1.4 %
Duty Cycle		±0.6 %

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TN,VN	TN	20°C
-	VN	120V
TX-Radiated < 1G	Remark	-
AC Adapter	FSP065-REBN2	-
TX-Radiated > 1G	Remark	-
AC Adapter	FSP065-REBN2	-

2.2 Test Channel Mode

Test Software Version	Blue Tool 1.9.2.4
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Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
2.4G	BT-BR	1	1	1	2402	L	Default
2.4G	BT-BR	1	1	1	2440	M	Default
2.4G	BT-BR	1	1	1	2480	H	Default
2.4G	BT-EDR2	1	1	1	2402	L	Default
2.4G	BT-EDR2	1	1	1	2440	M	Default
2.4G	BT-EDR2	1	1	1	2480	H	Default
2.4G	BT-EDR3	1	1	1	2402	L	Default
2.4G	BT-EDR3	1	1	1	2440	M	Default
2.4G	BT-EDR3	1	1	1	2480	H	Default

Abbreviation Explanation

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Test Cond.	Abbreviation
2.4G	BT-BR	1	1	1	2402	L	TN,VN	2.4G;BT-BR;1;1;2402;L;TN,VN

Note:

- ♦ Test range channel consist of L (Low Ch.), M (Middle Ch.), H (High Ch.).

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 Test Voltage: 120Vac / 60Hz
Operating Mode	Operating Mode Description
1	Adapter mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	RF Output Power, 20dB Bandwidth, Carrier Frequency Separation (ChS), Number of Hopping Frequencies (N), 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		
User Position	☐ EUT will be placed in fixed position.		
	☐ EUT will be placed in mobile position and operating multiple positions.		
	☒ EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.		
Operating Mode < 1GHz	☒ 1. Adapter mode		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

2.4 Accessories and Support Equipment

Accessories Information				
AC Adapter	Brand Name	FSP	Model Name	FSP065-REBN2
	Power Rating	I/P: 100 - 240 Vac, 1.5 A, O/P: 19 Vdc, 3.42 A		
	Power Cord	1.2 meter, non-shielded cable, with one ferrite core		
Battery 1	Brand Name	AAEON	Model Name	RTC1200
	Power Rating	14.4 Vdc, 2270 mAh	Type	Li-ion, 4S1P
Battery 2	Brand Name	AAEON	Model Name	RTC1200
	Power Rating	14.4 Vdc, 2270 mAh	Type	Li-ion, 4S1P
LCD Panel	Brand Name	LITEMAX	Model Name	OLP1167-ITN-A01

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

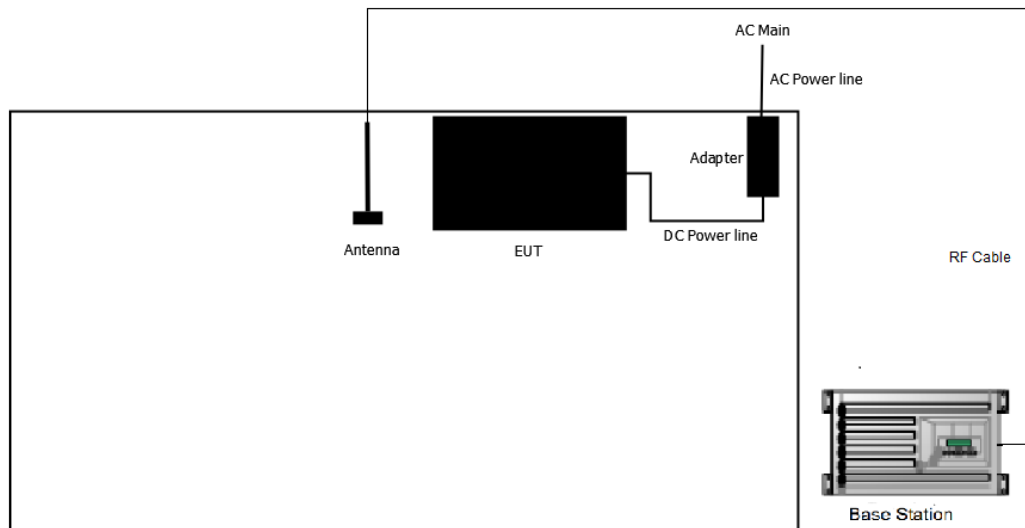
Support Equipment - RF Conducted			
No.	Equipment	Brand Name	Model Name
-	-	-	-

Support Equipment - AC Conduction			
No.	Equipment	Brand Name	Model Name
-	-	-	-

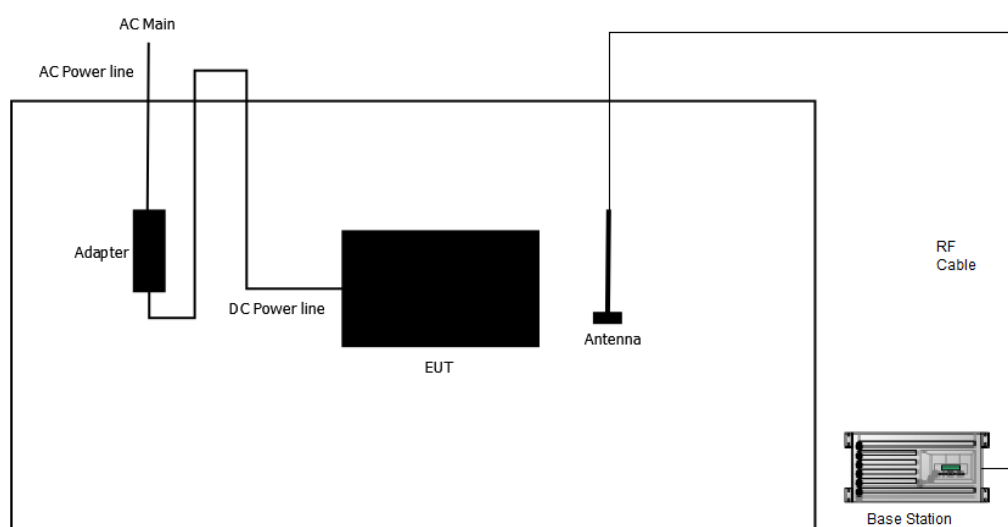
Support Equipment - Radiated Emission			
No.	Equipment	Brand Name	Model Name
-	-	-	-

2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Test Setup Diagram - Radiated Test



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

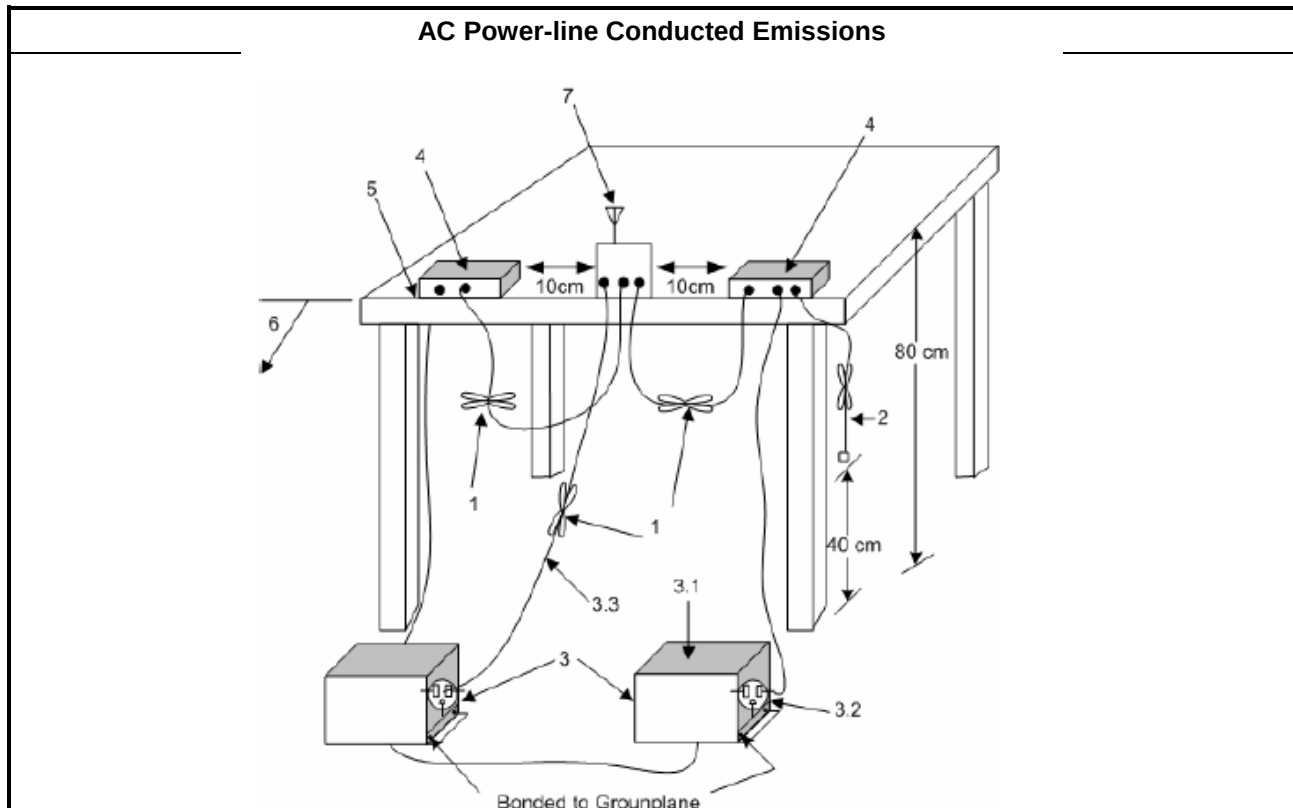
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix I

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	
☒	2400-2483.5 MHz Band:
☐	$N \geq 75$ and ChS $\geq$ MAX (20 dB bandwidth, 25 kHz).
☒	$N \geq 15$ and ChS $\geq$ MAX (20 dB bandwidth x 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

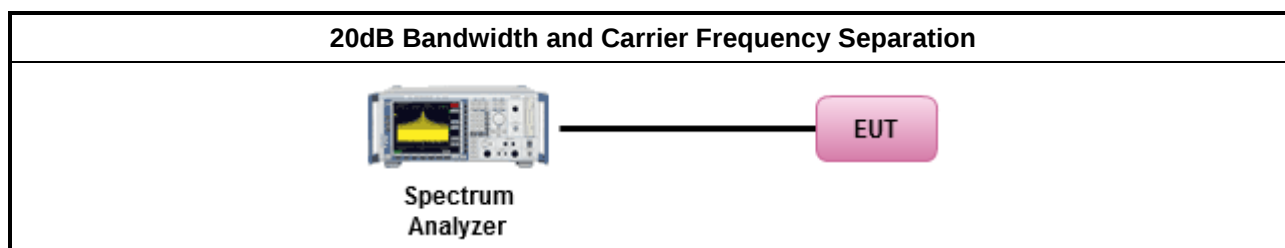
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
☒	Refer as ANSI C63.10, clause 6.9.2 for 20 dB bandwidth measurement.
☒	Refer as ANSI C63.10, clause 7.8.2 for carrier frequency separation measurement.
☒	For conducted measurement.
☒	The EUT supports single transmit chain and measurements performed on this transmit chain.
☐	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth and Carrier Frequency Separation

Refer as Appendix A.1~A.2.

3.3 Number of Hopping Frequencies

3.3.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit for Frequency Hopping Systems	
☒	2400-2483.5 MHz Band:
☐	$N \geq 75$ and ChS $\geq$ MAX (20 dB bandwidth, 25 kHz).
☒	$N \geq 15$ and ChS $\geq$ MAX (20 dB bandwidth x 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

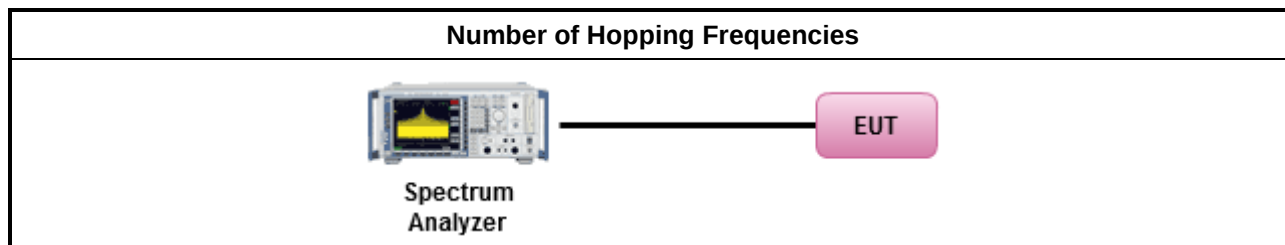
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
☒	Refer as ANSI C63.10, clause 7.8.3 for number of hopping frequencies measurement.
☒	For conducted measurement.
☒	The EUT supports single transmit chain and measurements performed on this transmit chain.
☐	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.

3.3.4 Test Setup



3.3.5 Test Result of Number of Hopping Frequencies

Refer as Appendix C.1

3.4 Time of Occupancy (Dwell Time)

3.4.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
☒	2400-2483.5 MHz Band: Dwell time ≤ 0.4 second within $0.4 \times N$
N: Number of Hopping Frequencies	

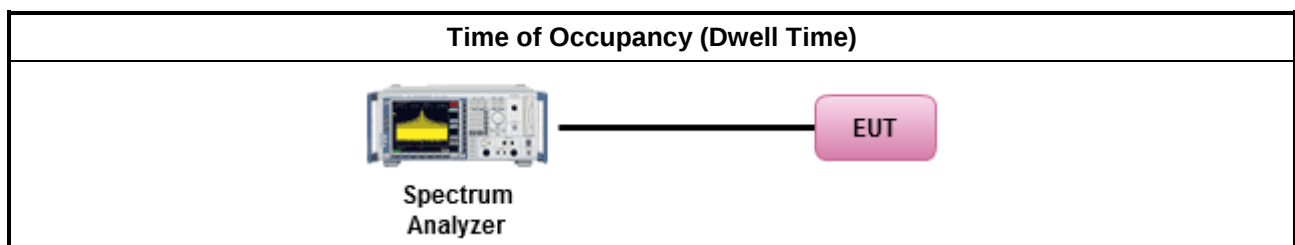
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
☒	Refer as DA-00-705 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 DH1 packet can cover a single time slot. A maximum length packet has duration of 1 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is $1/1600$ seconds, or 0.625ms. DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds.
☒	The DH3 packet can cover up to 3 time slots. A maximum length packet has duration of 3 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is $3/1600$ seconds, or 1.875ms. DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds.
☒	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 (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds
☒	For conducted measurement.
☒	The EUT supports single transmit chain and measurements performed on this transmit chain.
☐	The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.

3.4.4 Test Setup



3.4.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix C.2

3.5 RF Output Power

3.5.1 RF Output Power Limit

RF Output Power Limit for Frequency Hopping Systems	
Maximum Peak Conducted Output Power Limit	
☒ 2400-2483.5 MHz Band:	
	☐ For Hopping Channel: $N \geq 75$
	☐ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	☐ If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	☒ For Hopping Channel: $N \geq 15$
	☒ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 21$ dBm (0.125 W)
	☐ If $G_{TX} > 6$ dBi, then $P_{Out} = 21 - (G_{TX} - 6)$ dBm
e.i.r.p. Power Limit:	
☒ 2400-2483.5 MHz Band:	
	☐ For Hopping Channel: $N \geq 75 - P_{eirp} \leq 36$ dBm (4 W)
	☒ For Hopping Channel: $N \geq 15 - P_{eirp} \leq 27$ dBm (0.5 W)
G_{TX} = the maximum transmitting antenna directional gain in dBi. P_{eirp} = e.i.r.p. Power in dBm. N: Number of Hopping Frequencies ChS: Hopping Channel Separation	

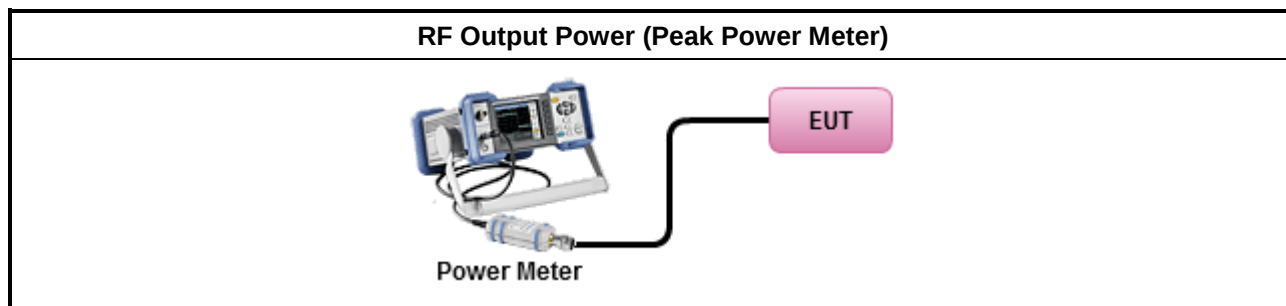
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
☒ Maximum Peak Conducted Output Power	
	☐ Refer as DA 00-705, spectrum analyzer for peak power.
	☒ Refer as DA 00-705, peak power meter for peak power.
	☐ Refer as ANSI C63.10, clause 11.9.1.3) for peak power meter.
	☐ Refer as ANSI C63.10, clause 11.9.1.1) for spectrum analyzer - (RBW $\geq$ EBW).
☒ For conducted measurement.	
	☒ The EUT supports single transmit chain and measurements performed on this transmit chain.
	☐ The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.

3.5.4 Test Setup



3.5.5 Test Result of Maximum Peak Conducted Output Power

Refer as Appendix B.1

3.5.6 Test Result of Maximum Average Conducted Output Power

Refer as Appendix B.2

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
Average output power procedure	30
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. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

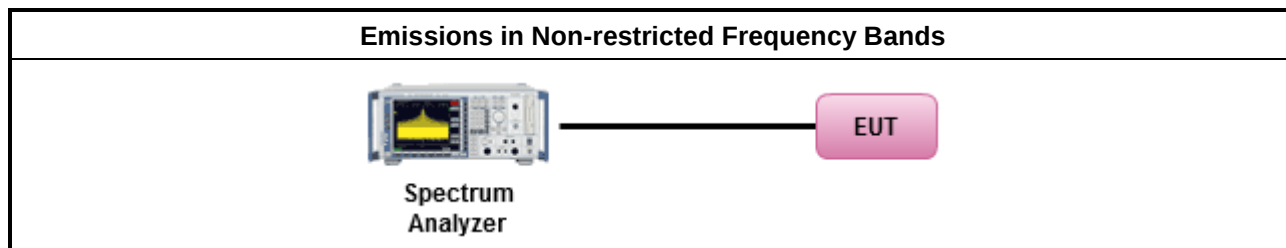
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method – General Information	
☒	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
☒	Refer as ANSI C63.10, clause 6.10.3 bandedge 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:
☒	For unwanted emissions into non-restricted bands. 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.
☒	For unwanted emissions into restricted bands.
☒	Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
☐	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.
☒	Refer as ANSI C63.10, clause 11.11.3 measurement procedure peak limit.
☒	For the transmitter bandedge emissions shall be measured using following options below:
☒	Refer as ANSI C63.10, clause 6.10 for band-edge testing.
☐	Refer as ANSI C63.10, clause 6.10.6.2 for marker-delta method for band-edge measurements.
☒	Refer as ANSI C63.10, clause 7.8.6 for band-edge testing into non-restricted bands.
☒	Refer as ANSI C63.10, clause 6.6 for radiated emissions and test distance is 3m.

3.6.4 Test Setup



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

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

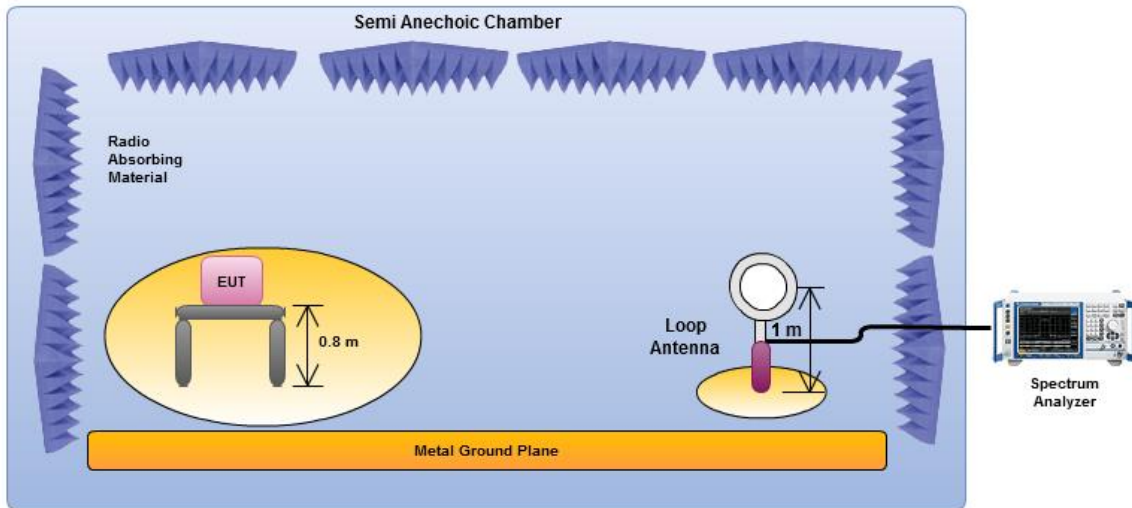
Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method – General Information	
☒	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).
☒	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
☒	For the transmitter unwanted emissions shall be measured using following options below:
☒	Refer as DA 00-705, for spurious radiated emissions. The dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$
☐	For unwanted emissions into non-restricted bands. 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.
☒	For unwanted emissions into restricted bands.
☒	Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). $\text{VBW} \geq 1/T$, where T is pulse time.
☐	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.
☒	Refer as ANSI C63.10, clause 11.12.2.4 measurement procedure peak limit.
☐	Refer as ANSI C63.10, clause 11.12.2.3 measurement procedure Quasi-Peak limit.
☒	For radiated measurement.
☒	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.
☒	The any unwanted emissions level shall not exceed the fundamental emission level.
☒	All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

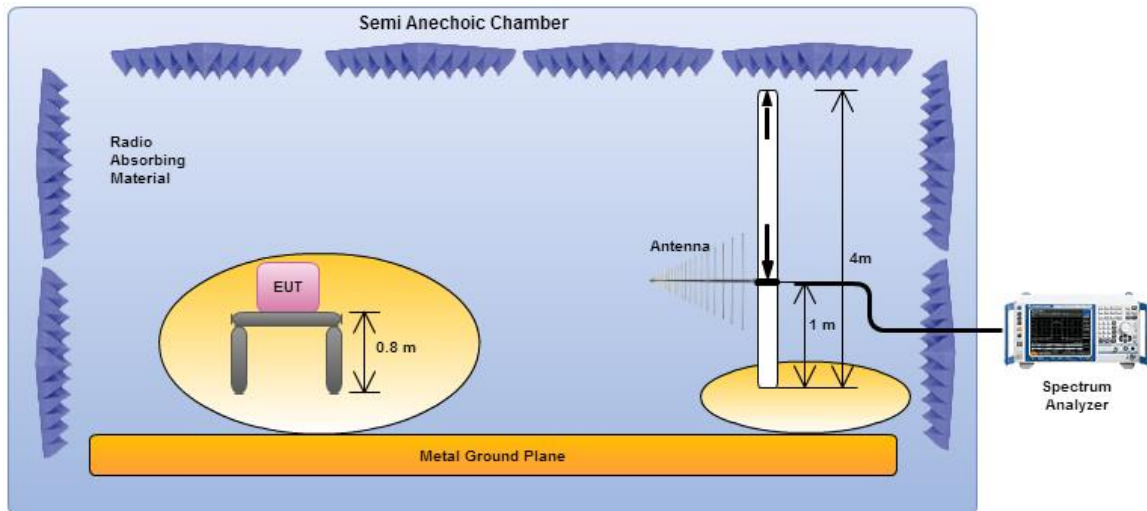
3.7.4 Test Setup

Transmitter Spurious and Out of Band Emissions (9 kHz - 30 MHz)

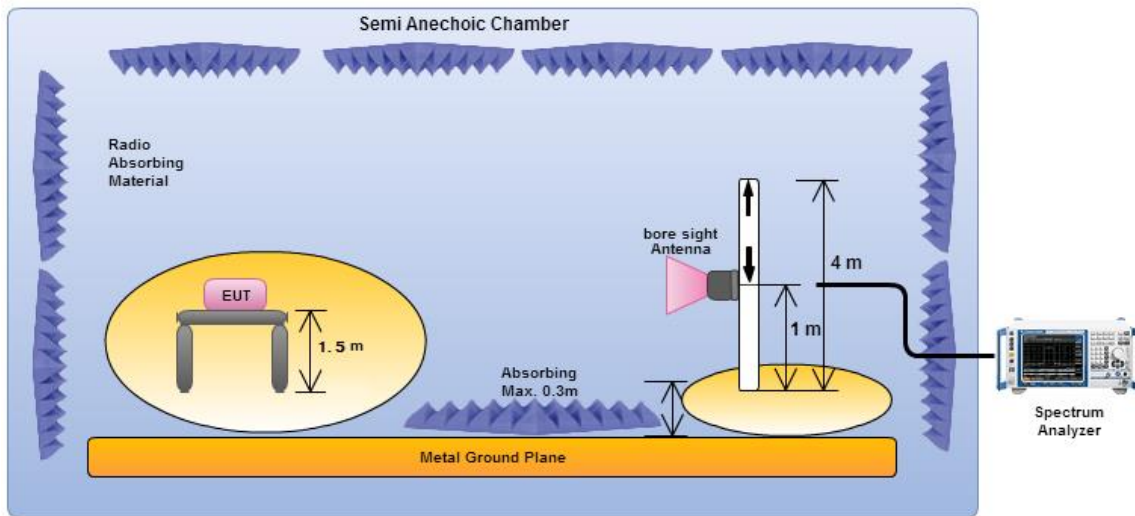


Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna.

Transmitter Radiated Unwanted Emissions (below 1GHz)



Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna.

Transmitter Radiated Unwanted Emissions (above 1GHz)


Electric field tests shall be performed in the frequency range of 1 GHz to 10th harmonic of highest fundamental frequency or 40 GHz using a calibrated horn antenna.

3.7.5 Transmitter 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.

3.7.6 Transmitter Radiated Unwanted Emissions

Refer as Appendix E.1~E.2

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	ESR-3	102051	9kHz ~ 3.6GHz	19/04/2016	18/04/2017
LISN	SCHWARZBECK MESS-ELEKTRO NIK	NSLK 8127	8127-477	9kHz ~ 30MHz	26/01/2016	25/01/2017
LISN (Support Unit)	R&S	ENV216	101295	9kHz ~ 30MHz	NCR	NCR
RF Cable-CON	HUBER+SUHN ER	RG213/U	0761183202000 1	9kHz ~ 30MHz	24/10/2016	23/10/2017
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	NCR	NCR
Bluetooth Tester	ROHDE&SCHW ARZ	CBT	100959	Bluetooth Station	02/03/2016	01/03/2017

NCR : Non-Calibration Require

Instrument for Radiated Test

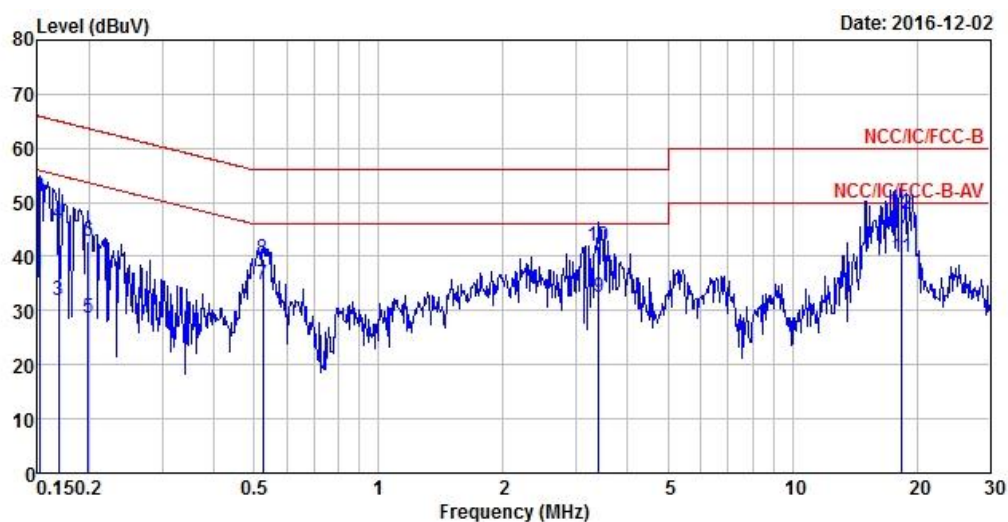
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz	28/11/2016	27/11/2017
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz	16/12/2015	15/12/2016
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	10/05/2016	09/05/2017
Amplifier	KEYSIGHT	83017A	MY53270197	1GHz ~ 26.5GHz	29/08/2016	28/08/2017
Spectrum	R&S	FSV40	101513	9kHz ~ 40GHz	16/02/2016	15/02/2017
Bilog Antenna	SCHAFFNER	CBL 6112D	2723	30MHz ~ 1GHz	01/10/2016	30/09/2017
Horn Antenna	SCHWARZBEC K	BBHA 9120D	BBHA 9120D 1531	1GHz ~ 18GHz	22/04/2016	21/04/2017
Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	29/01/2016	28/01/2017
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	02/02/2015	01/02/2017
RF-Cable-high	SUHNER	SUHNER	CB222	1GHz ~ 40GHz	28/10/2016	27/10/2017
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	27/10/2016	26/10/2017
Bluetooth Tester	ROHDE&SCHW ARZ	CBT	100959	Bluetooth Station	02/03/2016	01/03/2017

**Instrument for Conducted Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101500	9kHz~40GHz	12/05/2016	11/05/ 2017
Power Sensor	Anritsu	MA2411B	917017	300MHz ~ 40GHz	04/02/2016	03/02/2017
Power Meter	Anritsu	ML2495A	949003	300MHz ~ 40GHz	04/02/2016	03/02/2017
Bluetooth Tester	ROHDE&SCHWARZ	CBT	100959	Bluetooth Station	02/03/2016	01/03/2017
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/07/2016	20/07/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	02/10/2016	01/10/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10712/4	30MHz ~ 26.5GHz	02/10/2016	01/10/2017
RF Cable-1.5m	HUBER+SUHNER	SUCOFLEX_104	MY12583/4	30MHz ~ 26.5GHz	02/10/2016	01/10/2017

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode		



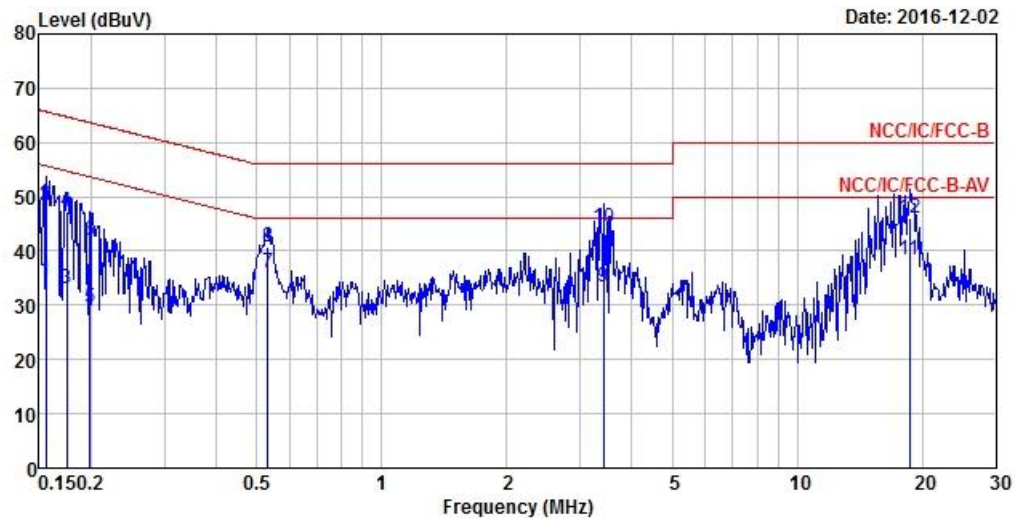
	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	36.82	-19.09	55.91	36.50	0.10	0.22	Average
2	0.15	50.96	-14.95	65.91	50.64	0.10	0.22	QP
3	0.17	31.91	-23.12	55.03	31.56	0.10	0.25	Average
4	0.17	46.10	-18.93	65.03	45.75	0.10	0.25	QP
5	0.20	28.77	-24.90	53.67	28.36	0.11	0.30	Average
6	0.20	42.82	-20.85	63.67	42.41	0.11	0.30	QP
7	0.52	34.95	-11.05	46.00	34.73	0.12	0.10	Average
8	0.52	39.65	-16.35	56.00	39.43	0.12	0.10	QP
9	3.40	32.46	-13.54	46.00	32.14	0.17	0.15	Average
10	3.40	42.06	-13.94	56.00	41.74	0.17	0.15	QP
11 MAX	18.35	39.96	-10.04	50.00	39.39	0.37	0.20	Average
12	18.35	47.90	-12.10	60.00	47.33	0.37	0.20	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
Operating Function	Adapter Mode		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.16	34.42	-21.27	55.69	34.08	0.11	0.23	Average
2	0.16	48.49	-17.20	65.69	48.15	0.11	0.23	QP
3	0.17	33.15	-21.57	54.72	32.78	0.11	0.26	Average
4	0.17	47.17	-17.55	64.72	46.80	0.11	0.26	QP
5	0.20	29.52	-24.15	53.67	29.11	0.11	0.30	Average
6	0.20	41.85	-21.82	63.67	41.44	0.11	0.30	QP
7 MAX	0.53	36.11	-9.89	46.00	35.89	0.12	0.10	Average
8	0.53	40.68	-15.32	56.00	40.46	0.12	0.10	QP
9	3.42	33.25	-12.75	46.00	32.93	0.17	0.15	Average
10	3.42	44.27	-11.73	56.00	43.95	0.17	0.15	QP
11	18.62	38.33	-11.67	50.00	37.79	0.34	0.20	Average
12	18.62	46.17	-13.83	60.00	45.63	0.34	0.20	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.)



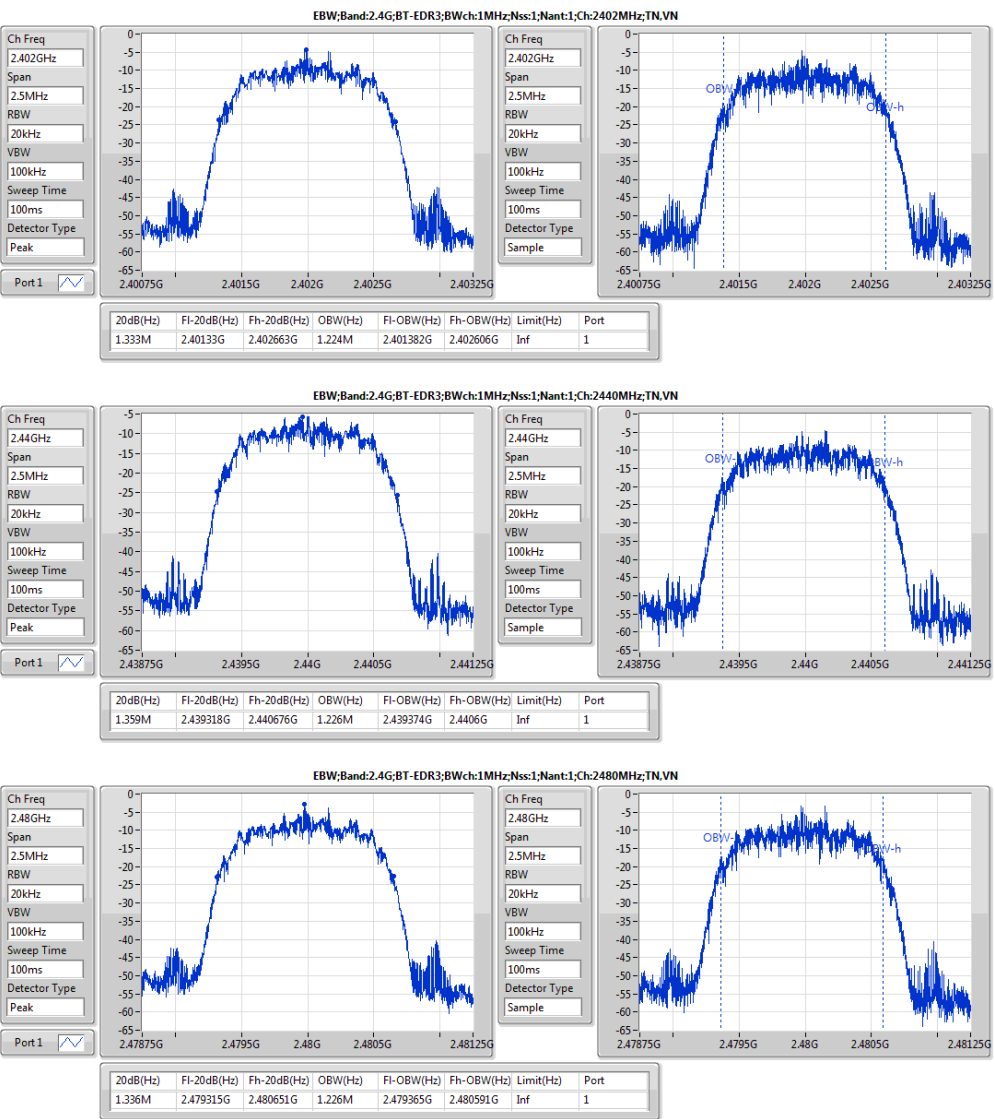
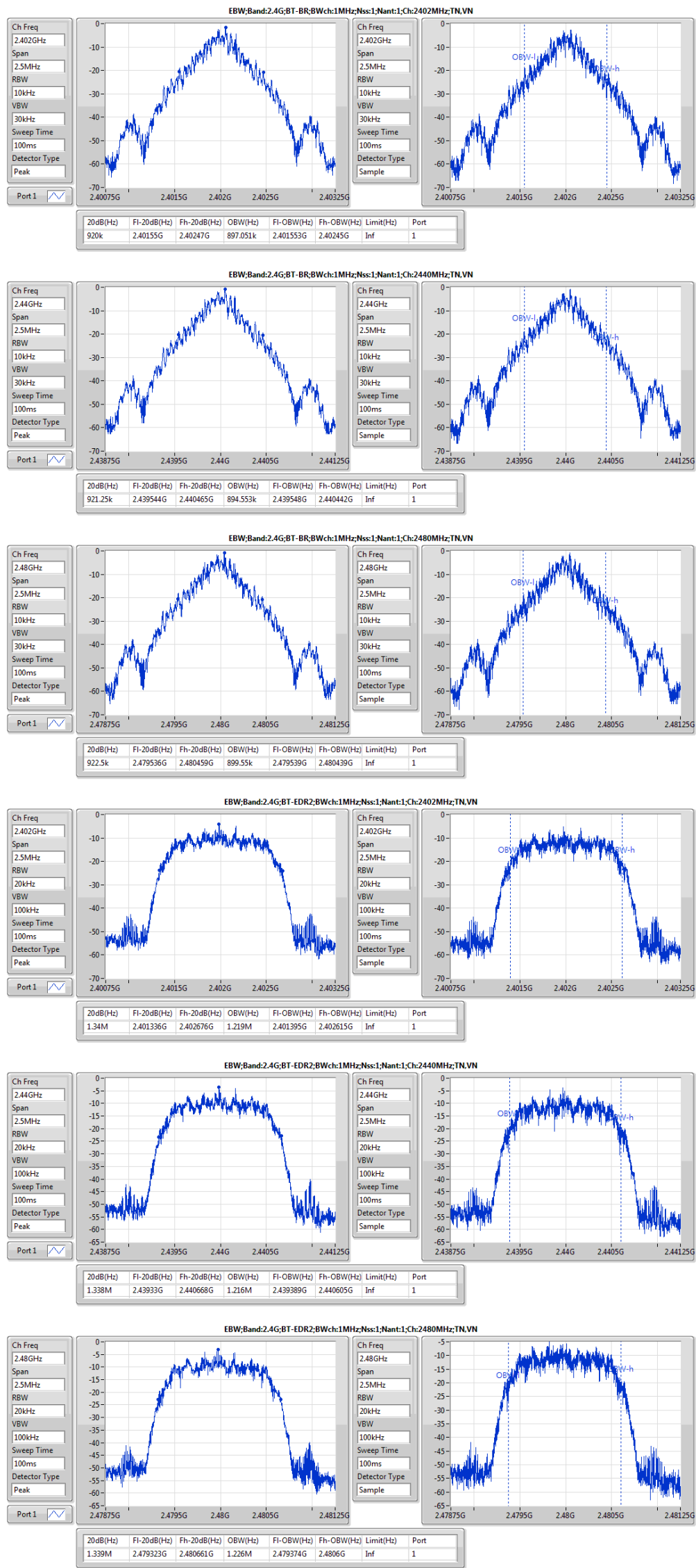
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4G;BT-BR;1;1;1	922.5k	899.55k	900kF1D	920k	894.553k
2.4G;BT-EDR2;1;1;1	1.34M	1.226M	1M23G1D	1.338M	1.216M
2.4G;BT-EDR3;1;1;1	1.359M	1.226M	1M23G1D	1.333M	1.224M



Result

Mode	Result	Limit (Hz)	P1-N dB (Hz)	P1-OBW (Hz)
2.4G;BT-BR;1;1;1;2402;L;TN,VN	Pass	Inf	920k	897.051k
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	Inf	921.25k	894.553k
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	Inf	922.5k	899.55k
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	Inf	1.34M	1.219M
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	Inf	1.338M	1.216M
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	Inf	1.339M	1.226M
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	Inf	1.333M	1.224M
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	Inf	1.359M	1.226M
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	Inf	1.336M	1.226M





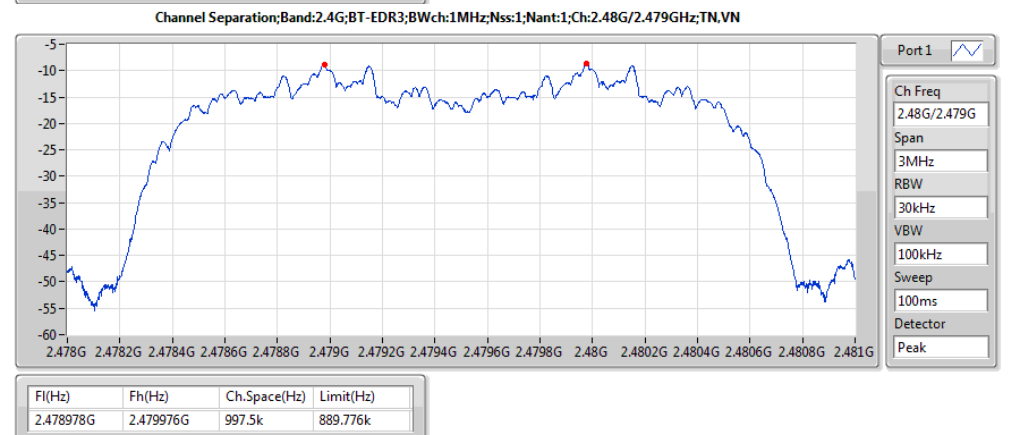
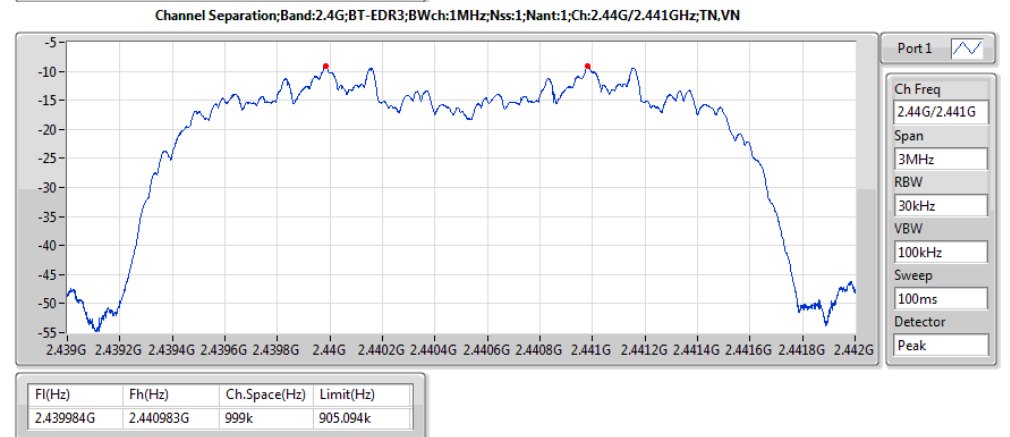
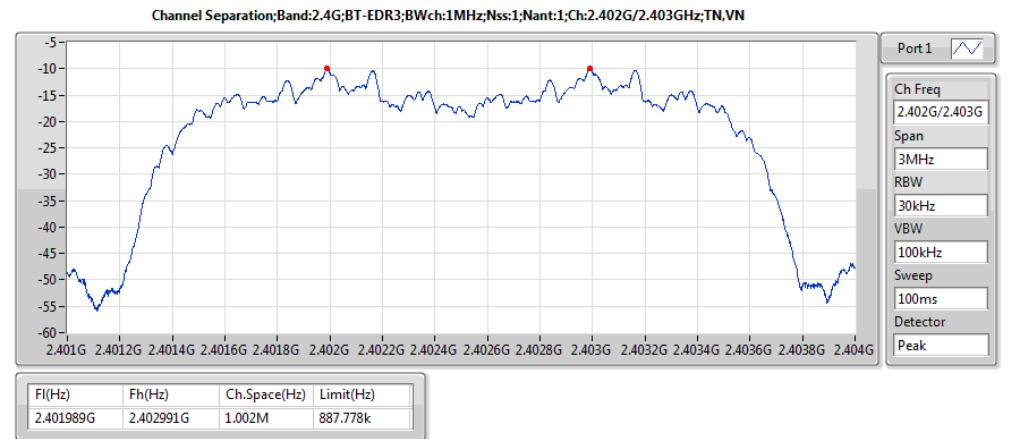
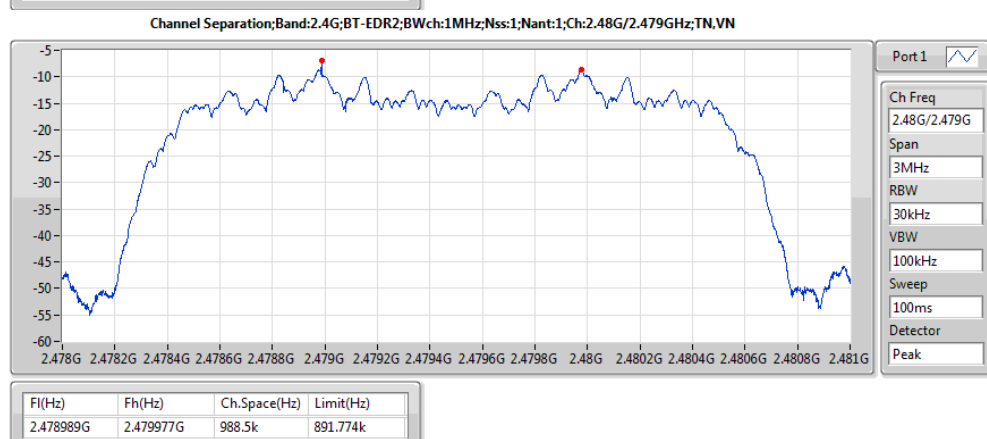
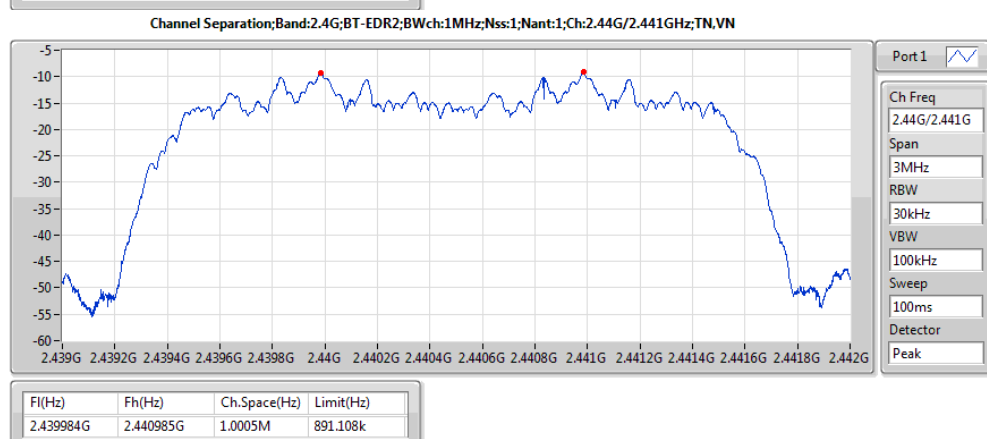
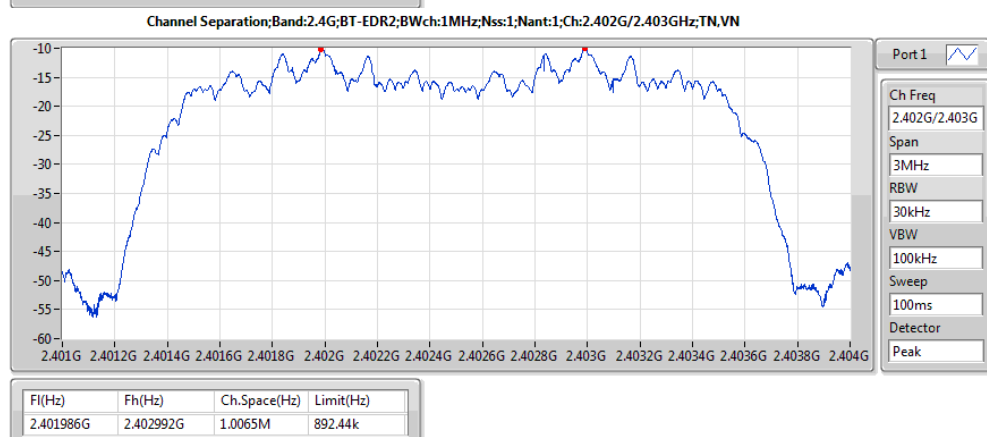
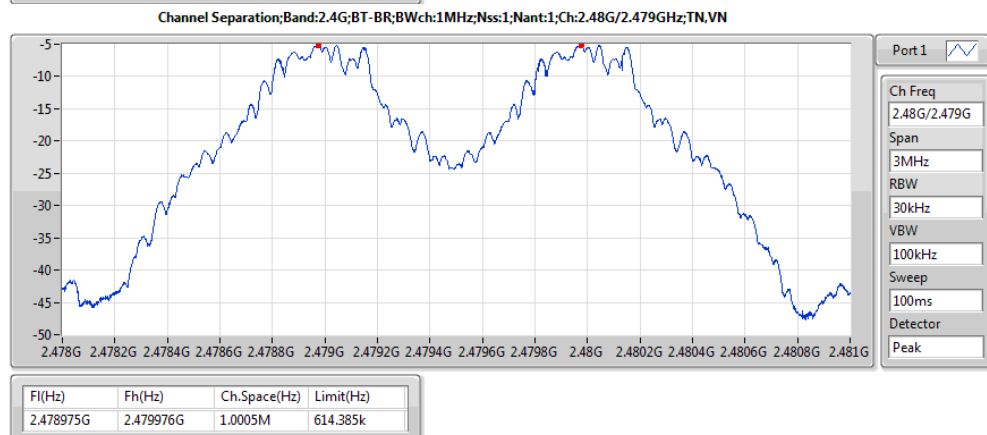
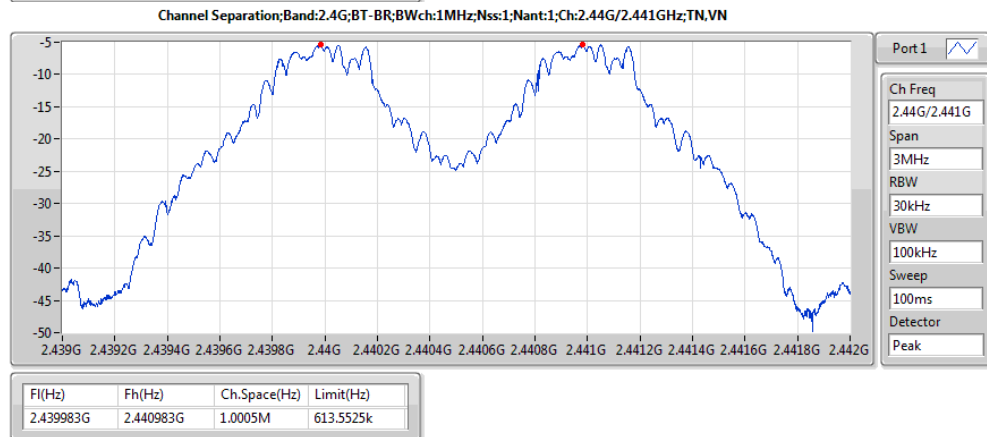
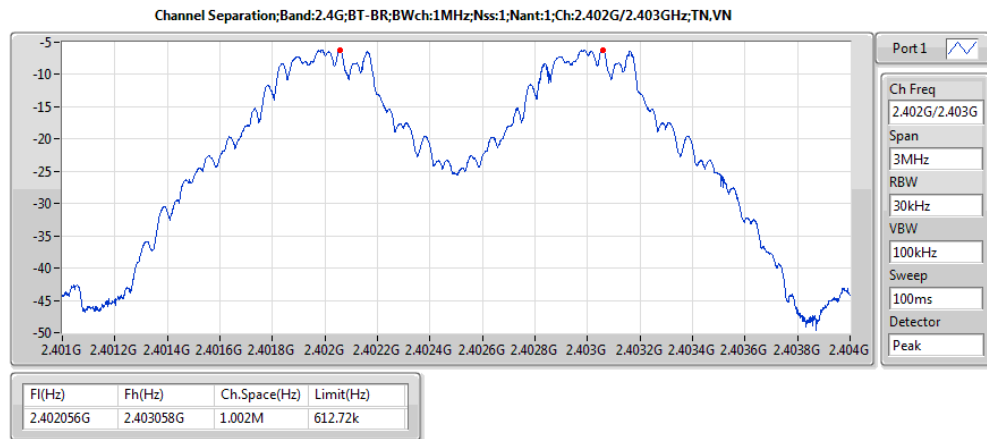
Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4G;BT-BR;1;1;1	1.002M	1.0005M
2.4G;BT-EDR2;1;1;1	1.0065M	988.5k
2.4G;BT-EDR3;1;1;1	1.002M	997.5k



Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
2.4G;BT-BR;1;1;1;2402;L;TN,VN	Pass	2.402056G	2.403058G	1.002M	612.72k
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	2.439983G	2.440983G	1.0005M	613.5525k
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	2.478975G	2.479976G	1.0005M	614.385k
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	2.401986G	2.402992G	1.0065M	892.44k
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	2.439984G	2.440985G	1.0005M	891.108k
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	2.478989G	2.479977G	988.5k	891.774k
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	2.401989G	2.402991G	1.002M	887.778k
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	2.439984G	2.440983G	999k	905.094k
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	2.478978G	2.479976G	997.5k	889.776k





Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G;BT-BR;1;1;1	5.51	0.00356	7.85	0.0061
2.4G;BT-EDR2;1;1;1	4.65	0.00292	6.99	0.005
2.4G;BT-EDR3;1;1;1	4.84	0.00305	7.18	0.00522



Result

Mode	Result	DG (dBi)	Sum (dBm)	Sum Lim. (dBm)	EIRP (dBm)	EIRP Lim. (dBm)	P1 (dBm)
2.4G;BT-BR;1;1;1;2402;L;TN,VN	Pass	2.34	4.56	21.00	6.90	27.00	4.56
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	2.34	5.31	21.00	7.65	27.00	5.31
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	2.34	5.51	21.00	7.85	27.00	5.51
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	2.34	3.36	21.00	5.70	27.00	3.36
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	2.34	4.16	21.00	6.50	27.00	4.16
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	2.34	4.65	21.00	6.99	27.00	4.65
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	2.34	3.66	21.00	6.00	27.00	3.66
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	2.34	4.57	21.00	6.91	27.00	4.57
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	2.34	4.84	21.00	7.18	27.00	4.84



Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G;BT-BR;1;1;1	5.25	0.00335	7.59	0.00574
2.4G;BT-EDR2;1;1;1	1.88	0.00154	4.22	0.00264
2.4G;BT-EDR3;1;1;1	1.73	0.00149	4.07	0.00255



Result

Mode	Result	DG (dBi)	Sum (dBm)	Sum Lim. (dBm)	EIRP (dBm)	EIRP Lim. (dBm)	P1 (dBm)
2.4G;BT-BR;1;1;1;2402;L;TN,VN	Pass	2.34	4.33	21.00	6.67	27.00	4.33
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	2.34	5.08	21.00	7.42	27.00	5.08
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	2.34	5.25	21.00	7.59	27.00	5.25
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	2.34	0.43	21.00	2.77	27.00	0.43
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	2.34	1.39	21.00	3.73	27.00	1.39
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	2.34	1.88	21.00	4.22	27.00	1.88
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	2.34	0.59	21.00	2.93	27.00	0.59
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	2.34	1.55	21.00	3.89	27.00	1.55
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	2.34	1.73	21.00	4.07	27.00	1.73



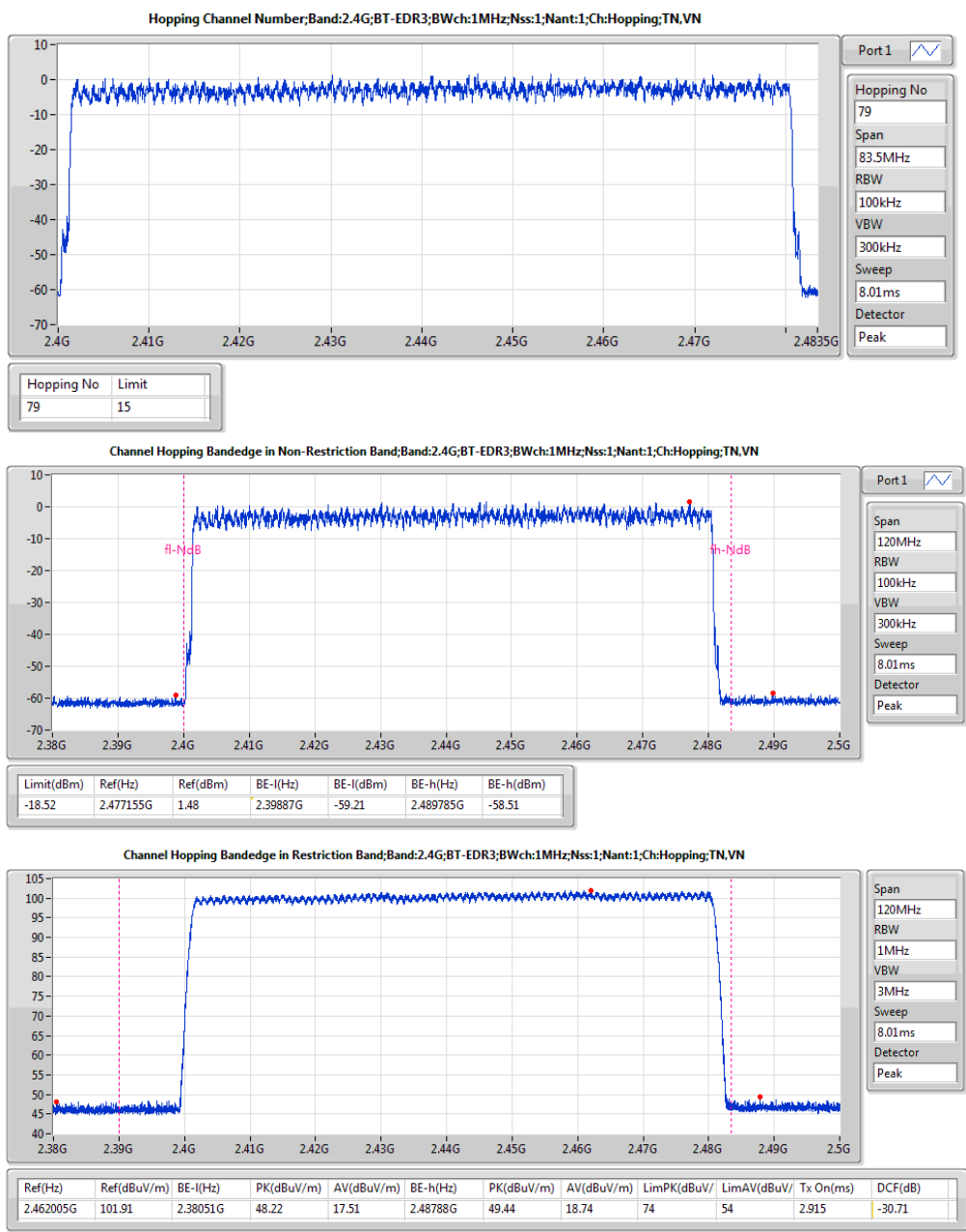
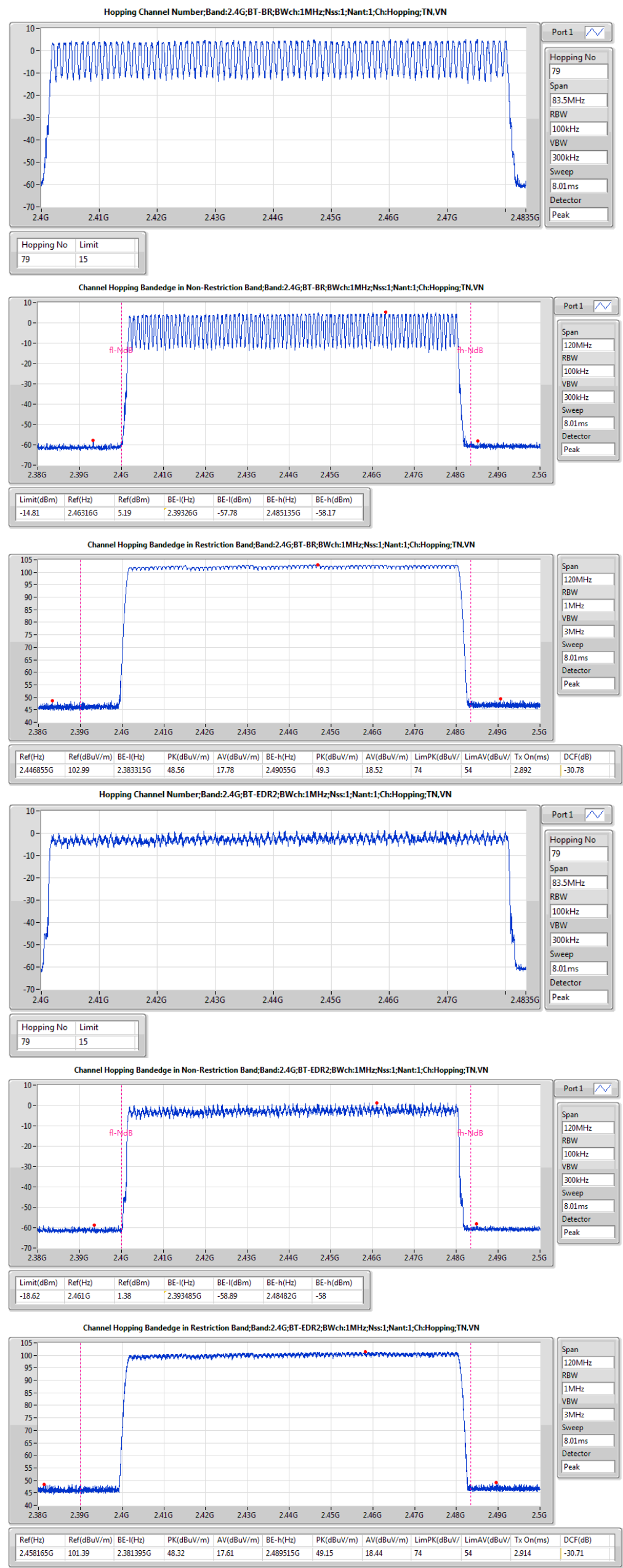
Summary

Mode	Max-Hop No
2.4G;BT-BR;1;1;1	79
2.4G;BT-EDR2;1;1;1	79
2.4G;BT-EDR3;1;1;1	79



Result

Mode	Result	Hopping No	Limit
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	79	15
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	79	15
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	79	15





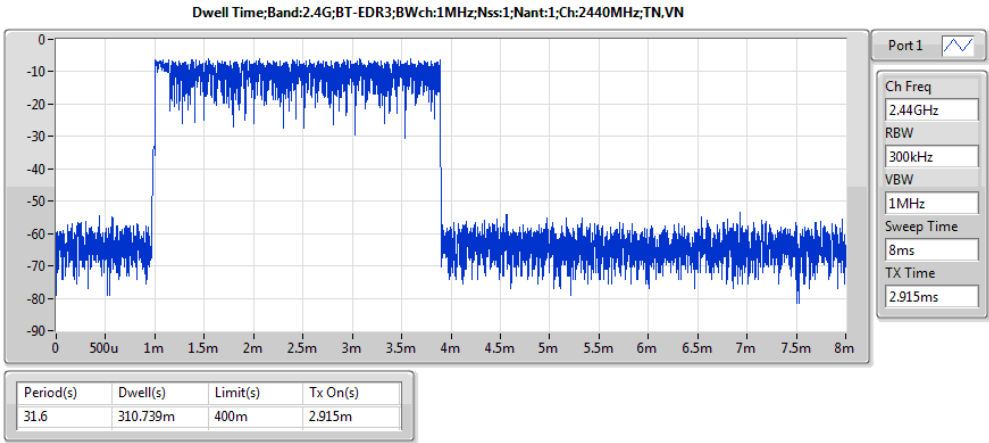
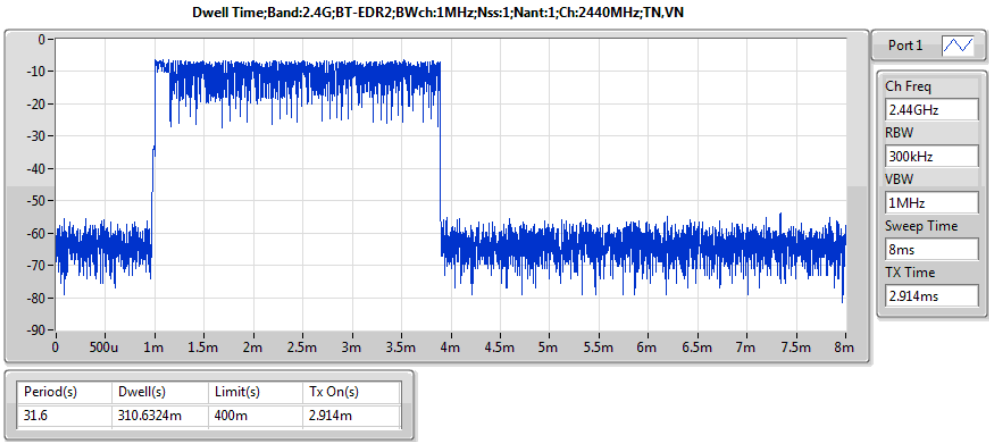
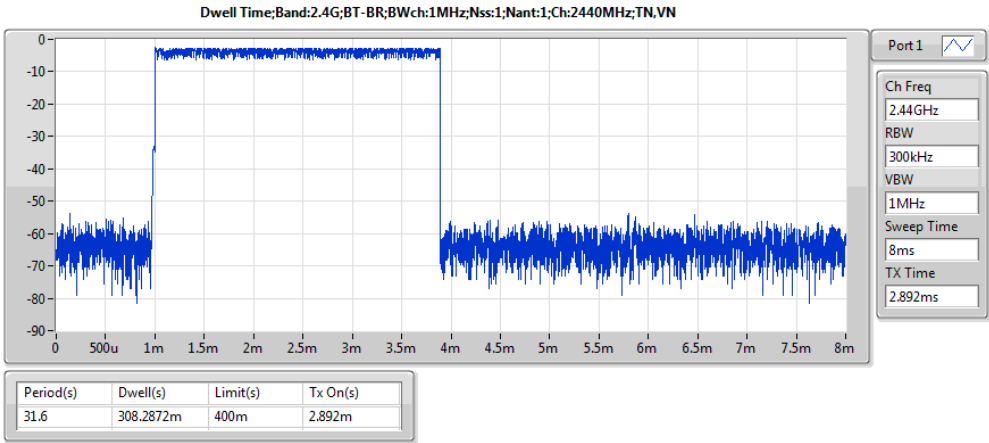
Summary

Mode	Max-Dwell (s)
2.4G;BT-BR;1;1;1	308.2872m
2.4G;BT-EDR2;1;1;1	310.6324m
2.4G;BT-EDR3;1;1;1	310.739m



Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	31.6	308.2872m	400m	2.892m
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	31.6	310.6324m	400m	2.914m
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	31.6	310.739m	400m	2.915m





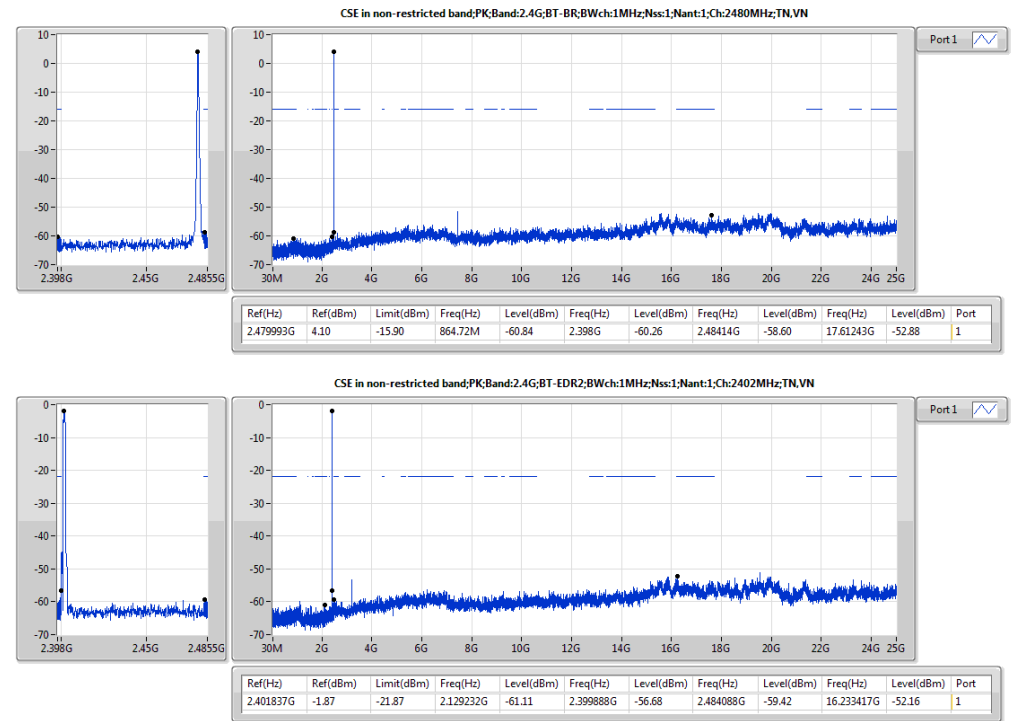
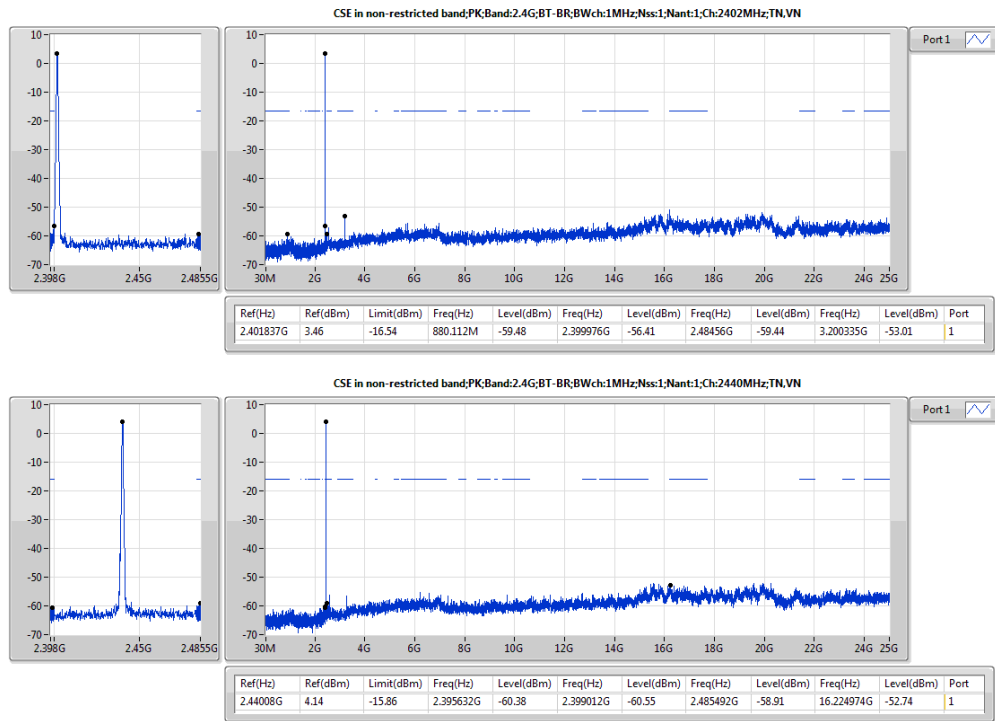
Summary

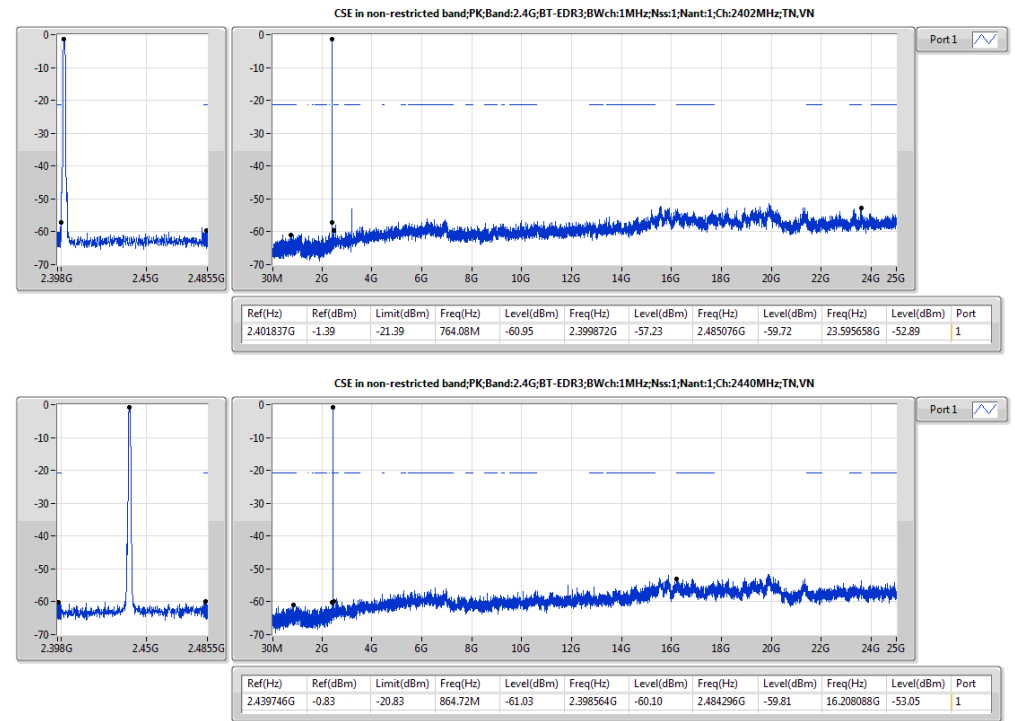
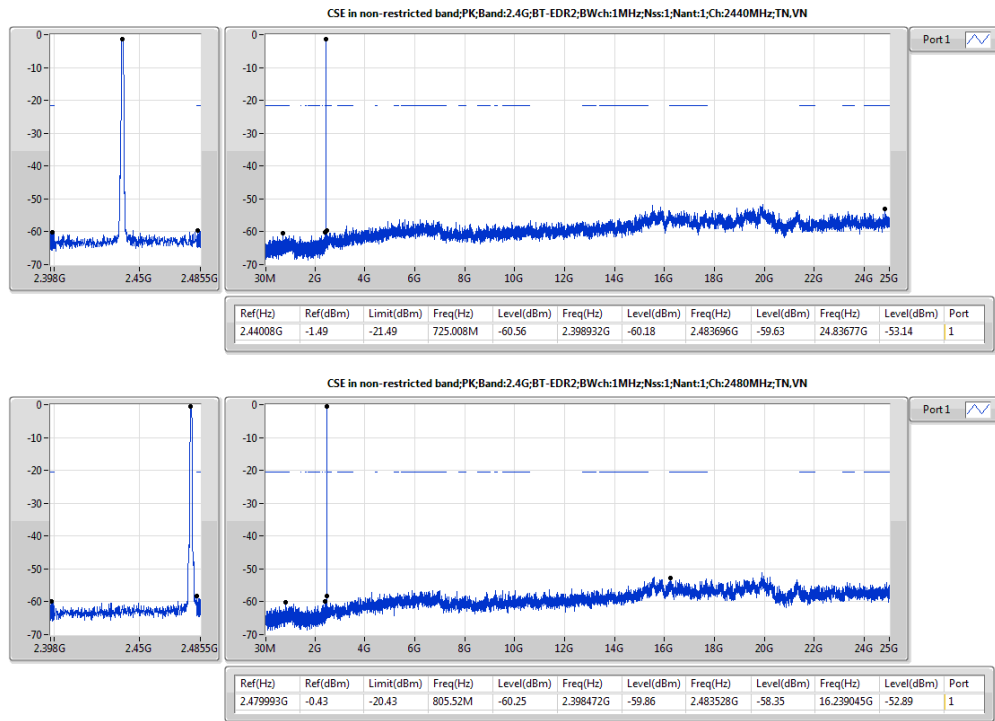
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	2.401837G	-1.87	-21.87	2.129232G	-61.11	2.399888G	-56.68	2.484088G	-59.42	16.233417G	-52.16	1



Result

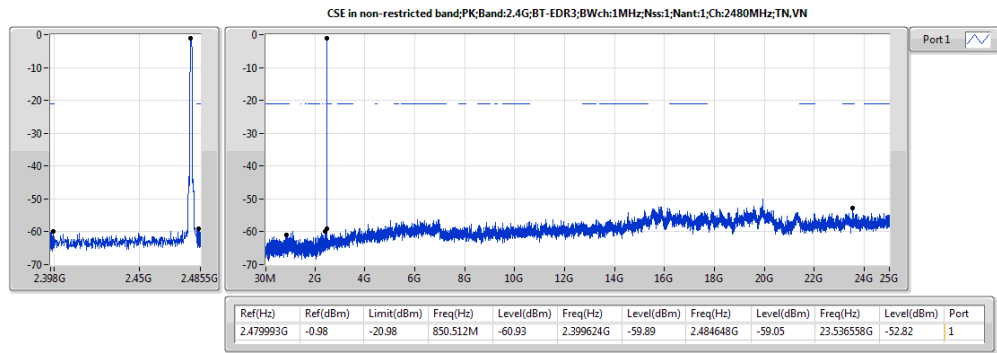
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4G;BT-BR;1;1;1;2402;L;TN,VN	Pass	2.401837G	3.46	-16.54	880.112M	-59.48	2.399976G	-56.41	2.48456G	-59.44	3.200335G	-53.01	1
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	2.44008G	4.14	-15.86	2.395632G	-60.38	2.399012G	-60.55	2.485492G	-58.91	16.224974G	-52.74	1
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	2.479993G	4.10	-15.90	864.72M	-60.84	2.398G	-60.26	2.48414G	-58.60	17.61243G	-52.88	1
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	2.401837G	-1.87	-21.87	2.129232G	-61.11	2.399888G	-56.68	2.484088G	-59.42	16.233417G	-52.16	1
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	2.44008G	-1.49	-21.49	725.008M	-60.56	2.398932G	-60.18	2.483696G	-59.63	24.83677G	-53.14	1
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	2.479993G	-0.43	-20.43	805.52M	-60.25	2.398472G	-59.86	2.483528G	-58.35	16.239045G	-52.89	1
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	2.401837G	-1.39	-21.39	764.08M	-60.95	2.399872G	-57.23	2.485076G	-59.72	23.595658G	-52.89	1
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	2.439746G	-0.83	-20.83	864.72M	-61.03	2.398564G	-60.10	2.484296G	-59.81	16.208088G	-53.05	1
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	2.479993G	-0.98	-20.98	850.512M	-60.93	2.399624G	-59.89	2.484648G	-59.05	23.536558G	-52.82	1







CSEndB-DSS Result





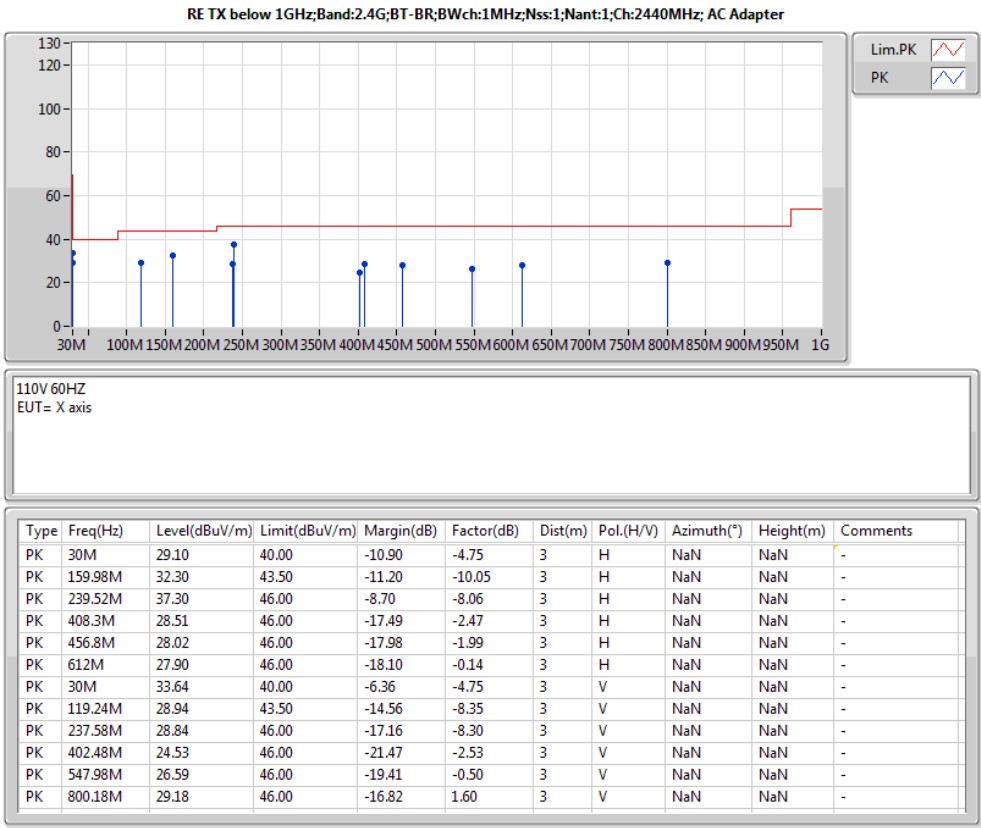
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	30M	33.64	40.00	-6.36	-4.75	3	V	NaN	NaN	-



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
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	30M	29.10	40.00	-10.90	-4.75	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	159.98M	32.30	43.50	-11.20	-10.05	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	239.52M	37.30	46.00	-8.70	-8.06	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	408.3M	28.51	46.00	-17.49	-2.47	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	456.8M	28.02	46.00	-17.98	-1.99	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	612M	27.90	46.00	-18.10	-0.14	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	30M	33.64	40.00	-6.36	-4.75	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	119.24M	28.94	43.50	-14.56	-8.35	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	237.58M	28.84	46.00	-17.16	-8.30	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	402.48M	24.53	46.00	-21.47	-2.53	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	547.98M	26.59	46.00	-19.41	-0.50	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	800.18M	29.18	46.00	-16.82	1.60	3	V	NaN	NaN	-





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
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	PK	2.31102G	56.26	74.00	-17.74	30.75	3	H	NaN	NaN	-



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
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	AV	2.31102G	26.16	54.00	-27.84	30.75	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	AV	2.402208G	69.23	Inf	-Inf	31.03	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	PK	2.31102G	56.26	74.00	-17.74	30.75	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	PK	2.402208G	99.33	Inf	-Inf	31.03	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	AV	4.804G	15.60	54.00	-38.40	6.37	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	PK	4.804G	45.70	74.00	-28.30	6.37	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	PK	7.206G	51.41	Inf	-Inf	11.68	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	PK	9.608G	55.50	Inf	-Inf	15.92	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	AV	4.804G	14.98	54.00	-39.02	6.37	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	PK	4.804G	45.08	74.00	-28.92	6.37	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	PK	7.206G	51.24	Inf	-Inf	11.68	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2402;L; AC Adapter	Pass	PK	9.608G	55.80	Inf	-Inf	15.92	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	AV	2.35636G	25.20	54.00	-28.80	30.89	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	AV	2.44034G	69.64	Inf	-Inf	31.14	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	AV	2.48822G	25.11	54.00	-28.89	31.28	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	2.35636G	55.30	74.00	-18.70	30.89	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	2.44034G	99.74	Inf	-Inf	31.14	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	2.48822G	55.21	74.00	-18.79	31.28	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	AV	4.88G	16.20	54.00	-37.80	6.64	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	4.88G	46.30	74.00	-27.70	6.64	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	AV	7.32G	22.28	54.00	-31.72	11.85	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	7.32G	52.38	74.00	-21.62	11.85	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	9.76G	56.44	Inf	-Inf	15.83	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	AV	4.88G	15.30	54.00	-38.70	6.64	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	4.88G	45.40	74.00	-28.60	6.64	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	AV	7.32G	21.80	54.00	-32.20	11.85	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	7.32G	51.90	74.00	-22.10	11.85	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2440;M; AC Adapter	Pass	PK	9.76G	56.54	Inf	-Inf	15.83	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	AV	2.47968G	70.98	Inf	-Inf	31.26	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	AV	2.48992G	25.60	54.00	-28.40	31.29	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	PK	2.47968G	101.08	Inf	-Inf	31.26	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	PK	2.48992G	55.70	74.00	-18.30	31.29	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	AV	4.96G	17.77	54.00	-36.23	6.93	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	PK	4.96G	47.87	74.00	-26.13	6.93	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	AV	7.44G	22.08	54.00	-31.92	12.07	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	PK	7.44G	52.18	74.00	-21.82	12.07	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	PK	9.92G	56.12	Inf	-Inf	15.85	3	H	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	AV	4.96G	15.88	54.00	-38.12	6.93	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	PK	4.96G	45.98	74.00	-28.02	6.93	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	AV	7.44G	22.03	54.00	-31.97	12.07	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	PK	7.44G	52.13	74.00	-21.87	12.07	3	V	NaN	NaN	-
2.4G;BT-BR;1;1;1;2480;H; AC Adapter	Pass	PK	9.92G	56.41	Inf	-Inf	15.85	3	V	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2402;L; AC Adapter	Pass	AV	2.329788G	25.84	54.00	-28.16	30.81	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2402;L; AC Adapter	Pass	AV	2.402208G	65.99	Inf	-Inf	31.03	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2402;L; AC Adapter	Pass	PK	2.329788G	55.94	74.00	-18.06	30.81	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2402;L; AC Adapter	Pass	PK	2.402208G	96.09	Inf	-Inf	31.03	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2440;M; AC Adapter	Pass	AV	2.3651G	25.52	54.00	-28.48	30.92	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2440;M; AC Adapter	Pass	AV	2.44034G	67.05	Inf	-Inf	31.14	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2440;M; AC Adapter	Pass	AV	2.49772G	25.13	54.00	-28.87	31.31	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2440;M; AC Adapter	Pass	PK	2.3651G	55.62	74.00	-18.38	30.92	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2440;M; AC Adapter	Pass	PK	2.44034G	97.15	Inf	-Inf	31.14	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2440;M; AC Adapter	Pass	PK	2.49772G	55.23	74.00	-18.77	31.31	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2480;H; AC Adapter	Pass	AV	2.48016G	68.74	Inf	-Inf	31.26	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2480;H; AC Adapter	Pass	AV	2.4864G	26.06	54.00	-27.94	31.28	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2480;H; AC Adapter	Pass	PK	2.48016G	98.84	Inf	-Inf	31.26	3	H	NaN	NaN	-
2.4G;BT-EDR2;1;1;1;2480;H; AC Adapter	Pass	PK	2.4864G	56.16	74.00	-17.84	31.28	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2402;L; AC Adapter	Pass	AV	2.311836G	25.59	54.00	-28.41	30.76	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2402;L; AC Adapter	Pass	AV	2.402004G	66.42	Inf	-Inf	31.03	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2402;L; AC Adapter	Pass	PK	2.311836G	55.69	74.00	-18.31	30.76	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2402;L; AC Adapter	Pass	PK	2.402004G	96.52	Inf	-Inf	31.03	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2440;M; AC Adapter	Pass	AV	2.33736G	25.93	54.00	-28.07	30.83	3	H	NaN	NaN	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
2.4G;BT-EDR3;1;1;1;2440;M; AC Adapter	Pass	AV	2.43996G	66.88	Inf	-Inf	31.14	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2440;M; AC Adapter	Pass	AV	2.48404G	25.36	54.00	-28.64	31.27	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2440;M; AC Adapter	Pass	PK	2.33736G	56.03	74.00	-17.97	30.83	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2440;M; AC Adapter	Pass	PK	2.43996G	96.98	Inf	-Inf	31.14	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2440;M; AC Adapter	Pass	PK	2.48404G	55.46	74.00	-18.54	31.27	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2480;H; AC Adapter	Pass	AV	2.48G	68.80	Inf	-Inf	31.26	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2480;H; AC Adapter	Pass	AV	2.48416G	26.07	54.00	-27.93	31.27	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2480;H; AC Adapter	Pass	PK	2.48G	98.90	Inf	-Inf	31.26	3	H	NaN	NaN	-
2.4G;BT-EDR3;1;1;1;2480;H; AC Adapter	Pass	PK	2.48416G	56.17	74.00	-17.83	31.27	3	H	NaN	NaN	-

