

FCC Test Report

Equipment : Rugged Tablet Computer
Brand Name : AAEON
Model No. : xRTC-700Mx (x - Where x may be any combination of alphanumeric characters or "-" or blank.)
FCC ID : OHBRTC700MWBGH
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
FCC Classification : DSS
Applicant / Manufacturer : AAEON Technology Inc.
5F, No. 135, Lane 235, Pao Chiao Rd., Taipei, Taiwan

The product sample received on May 10, 2016 and completely tested on May 19, 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:


Kevin Liang / Assistant Manager

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Summary of Test Result

Conformance Test Specifications					
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 0.155695MHz 47.44 (Margin 18.25dB) - QP 29.32 (Margin 26.37dB) - AV	FCC 15.207	Complied
3.2	15.247(a)	20dB Bandwidth	Refer as Appendix A	N/A	Complied
3.2	15.247(a)	Carrier Frequency Separation (ChS)	Refer as Appendix A	$ChS \geq BW_{20dB} \times 2/3$	Complied
3.3	15.247(a)	Number of Hopping Frequencies (N)	Refer as Appendix C	$N \geq 15$	Complied
3.4	15.247(a)	Time of Occupancy (Dwell Time)	Refer as Appendix C	0.4 s within $0.4 \times N$	Complied
3.5	15.247(b)	RF Output Power (Maximum Peak Conducted Output Power)	Refer as Appendix B	Power [dBm] BR:21 EDR:21	Complied
3.6	15.247(d)	Transmitter Radiated Bandedge Emissions	[dBuV/m at 3m]: 2387.31 MHz 52.66 (Margin 21.34 dB) - PK 31.52 (Margin 22.48 dB) - AV	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied
3.7	15.247(d)	Transmitter Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 3m]: 753.62 MHz 38.54 (Margin 7.46 dB) - PK 32.02 (Margin 13.98 dB) - AV	Non-Restricted Bands: > 20 dBc Restricted Bands: FCC 15.209	Complied



SPORTON INTERNATIONAL INC.
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1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information				
Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number	RF Output Power (dBm)
2400-2483.5	BR / EDR	2402-2480	0-78 [79]	8.91
Note 1: Bluetooth BR uses a GFSK (1Mbps). Note 2: Bluetooth EDR uses a combination of $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps). Note 3: RF output power specifies that Maximum Peak Conducted Output Power.				

1.1.2 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		
Ant. Cat.	Ant. Type	Gain (dBi)
Integral	Dipole	-3.58

1.1.3 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:

1.1.4 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle	
☒ Operated test mode for worst duty cycle	
Test Signal Duty Cycle (x)	Power Duty Factor [dB] – (10 log 1/x)
☒ 78.6% - test mode single channel-BR-1Mbps	1.05
☒ 75.1% - test mode single channel-EDR-2Mbps	1.24
☒ 74.6% - test mode single channel-EDR-3Mbps	1.27
Bluetooth ACL packets can be 1, 3, or 5 time slots. The DH1 packet can cover a single time slot. The DH3 packet can cover up to 3 time slots. The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle.	

1.1.5 EUT Operational Condition

Supply Voltage	☒ AC mains	☒ DC	
Type of DC Source	☐ Internal DC supply	☒ External AC adapter	☒ Battery

1.2 Accessories and Support Equipment

Accessories				
AC Adapter 1	Brand Name	FSP	Model Name	FSP036-RBBN2
	Power Rating	I/P:100-240Vac, 1.2A, O/P: 12Vdc, 3A		
	Power Cord	1.2 meter, non-shielded cable, with w/o ferrite core		
Battery 1	Brand Name	Getac	Model Name	RTC600S
	Power Rating	7.4Vdc, 1530 mAh	Type	Li-ion,2S1P
Battery 2	Brand Name	Getac	Model Name	RTC600H
	Power Rating	7.4Vdc, 1530 mAh	Type	Li-ion,2S1P
LCD Panel	Brand Name	INNOLUX	Model Name	N070ICG-LD1

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

Support Equipment - AC Conducted			
No.	Equipment	Brand Name	Model Name
1	-	-	-

Support Equipment - RF Conducted			
No.	Equipment	Brand Name	Model Name
1	Notebook	DELL	E6400
2	AC Adapter for Notebook	DELL	HA65NM130

Support Equipment - Radiated Emission			
No.	Equipment	Brand Name	Model Name
1	-	-	-

1.3 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
- ♦ FCC Public Notice DA 00-705

1.4 Testing Location Information

Testing Location							
☒	HWA YA	ADD	:	No. 52, Hwa Ya 1 st 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 Site Registration Number: FCC 553509							
Test Condition		Test Site No.		Test Engineer		Test Environment	
AC Conduction		CO04-HY		Ryan		23°C / 56%	
RF Conducted		TH01-HY		Lisa		22.5°C / 65%	
Radiated Emission		03CH09-HY		Joe		22.2°C / 51.8%	

1.5 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		±0.5%
RF output power, conducted		±0.1 dB
Power density, conducted		±0.5 dB
Unwanted emissions, conducted	±0.4 dB	±0.4 dB
	±0.4 dB	±0.4 dB
	±0.6 dB	±0.6 dB
	±0.5 dB	±0.5 dB
	±0.5 dB	±0.5 dB
	N/A	N/A
All emissions, radiated	±2.5 dB	±2.5 dB
	±2.3 dB	±2.3 dB
	±2.6 dB	±2.6 dB
	±3.6 dB	±3.6 dB
	±3.8 dB	±3.8 dB
	N/A	N/A
Temperature		±0.8 °C
Humidity		±5 %
DC and low frequency voltages		±0.9%
Time		±1.4 %
Duty Cycle		±0.5 %

2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing					
Bluetooth Mode	Transmit Chains (N _{TX})	Data Rate	Modulation Mode	RF Output Power (dBm)	Worst Mode
BR	1	1 Mbps	BR-1Mbps	8.03	EDR-3Mbps
EDR	1	2 Mbps	EDR-2Mbps	8.34	
EDR	1	3 Mbps	EDR-3Mbps	8.91	
Note 1: Bluetooth BR uses a combination of GFSK (1Mbps).					
Note 2: Bluetooth EDR uses a combination of $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).					
Note 3: Modulation modes consist below configuration:					
FHSS BR-1Mbps: GFSK (1Mbps), EDR-2Mbps: $\pi/4$ -DQPSK (2Mbps), EDR-3Mbps: 8DPSK(3Mbps)					
Note 4: RF output power specifies that Maximum Peak Conducted Output Power.					

2.2 The Worst Case Power Setting Parameter

The Worst Case Power Setting Parameter			
Test Software Version	DOS		
Modulation Mode	2402 MHz	2441 MHz	2480 MHz
BR,1Mbps	Default	Default	Default
EDR,2Mbps	Default	Default	Default
EDR,3Mbps	Default	Default	Default

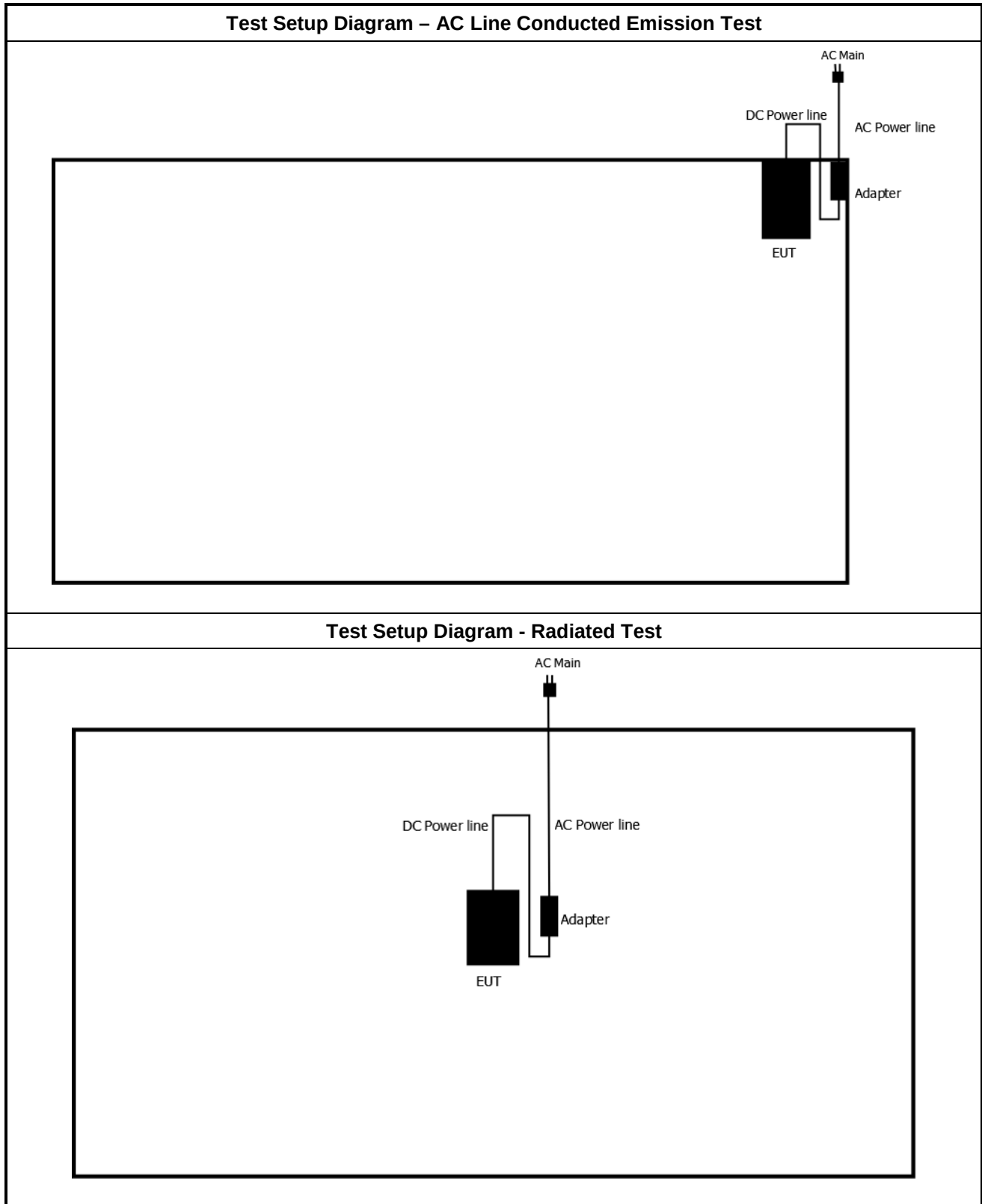
2.3 The Worst Case Measurement Configuration

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 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)
Test Condition	Conducted measurement at transmit chains
Modulation Mode	BR-1Mbps, EDR-3Mbps

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emission Bandwidth, Fundamental Emissions, Radiated Unwanted Emissions		
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 shall be performed two or three orthogonal planes.		
	☒ EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed two or three orthogonal planes.		
Operating Mode	Operating Mode Description		
1	Adapter Mode		
Modulation Mode	BR-1Mbps, EDR-3Mbps		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V
Worst Planes of Ant			V

2.4 Test Setup Diagram



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.

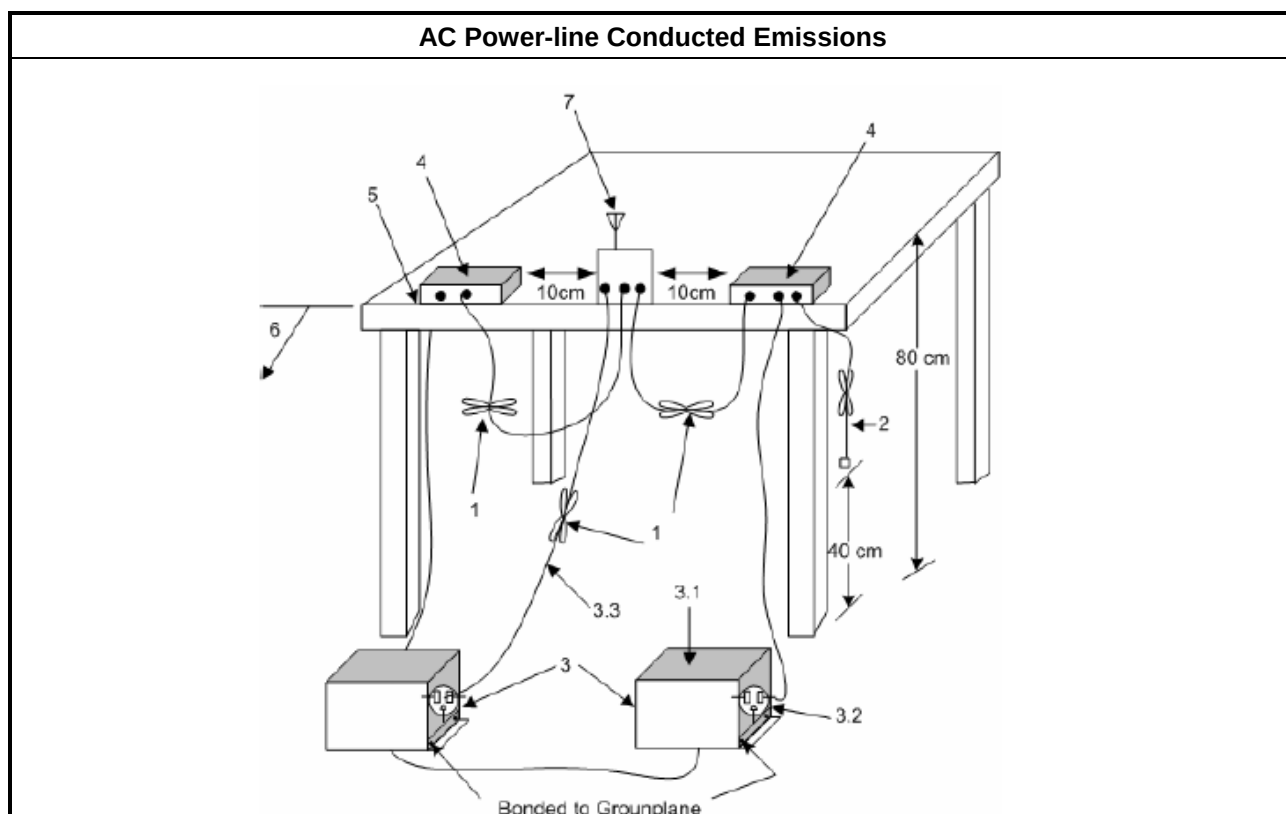
3.1.2 Measuring Instruments

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	

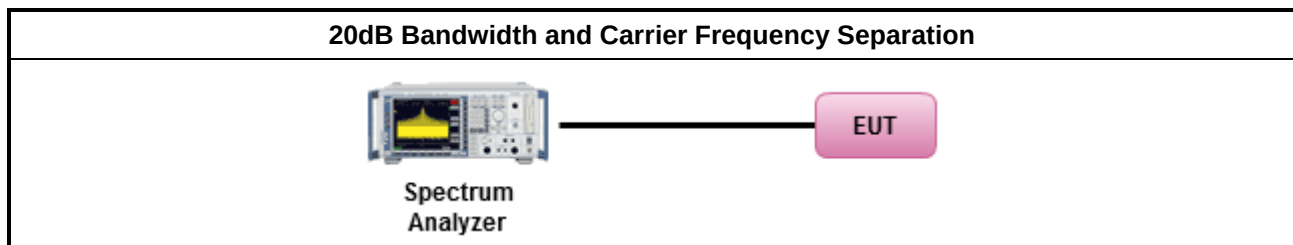
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
☒	Refer as 15.247(a), clause 6.9.2 for 20 dB bandwidth measurement.
☒	Refer as 15.247(a), 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	

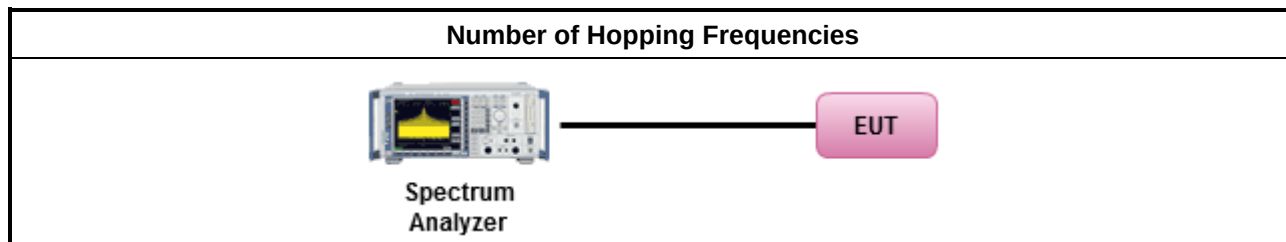
3.3.2 Measuring Instruments

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	

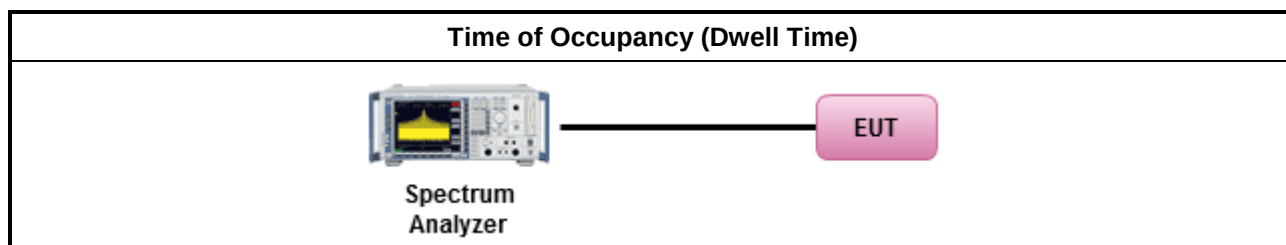
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
☒	Refer as 15.247(a), 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 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	

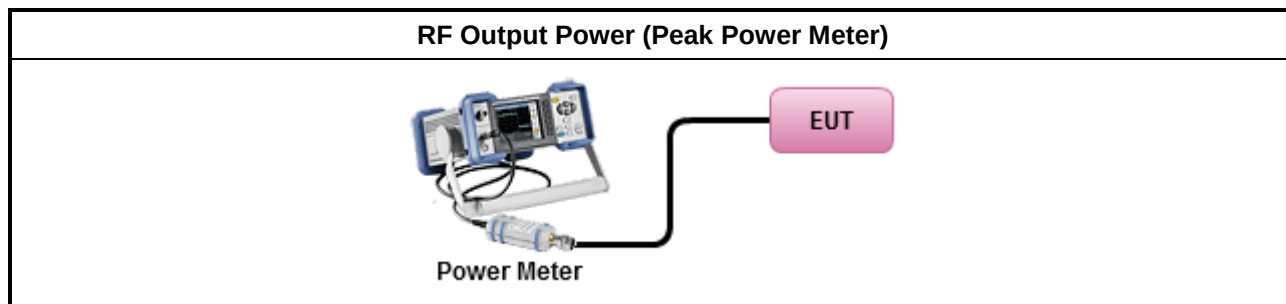
3.5.2 Measuring Instruments

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 FCC DA 00-0705, spectrum analyzer for peak power.
	☒ Refer as FCC DA 00-0705, 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

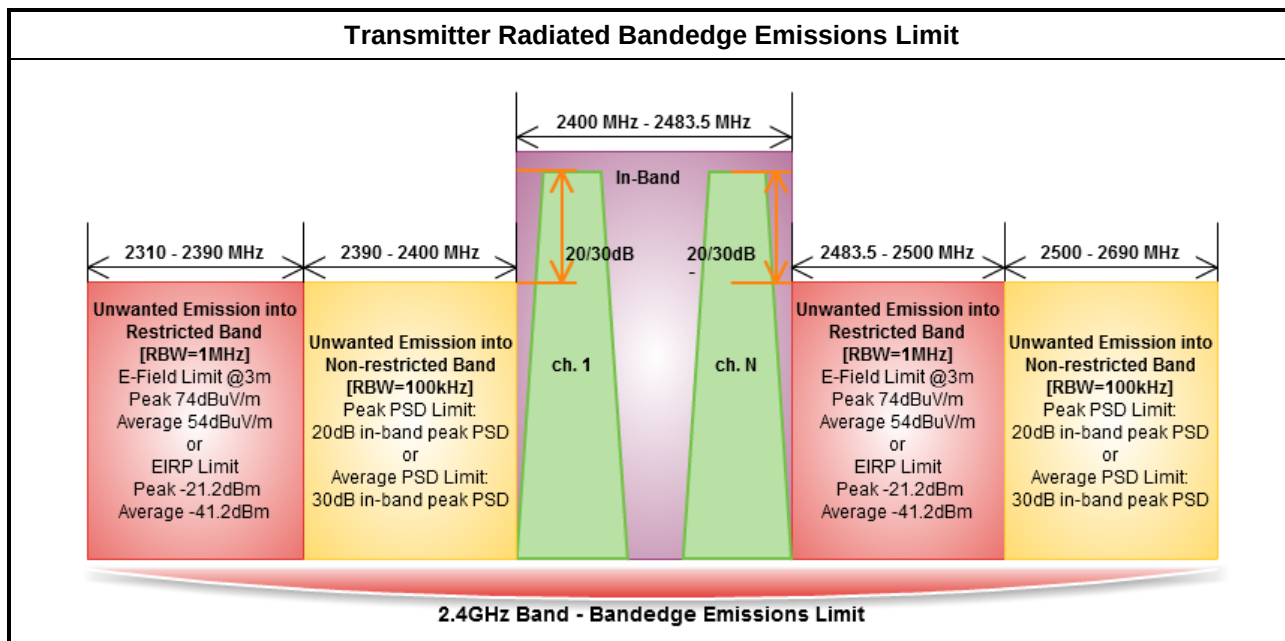
Refer as Appendix B.1

3.5.6 Test Result of Maximum Average Conducted Output Power

Refer as Appendix B.2

3.6 Transmitter Radiated Bandedge Emissions

3.6.1 Transmitter Radiated Bandedge Emissions Limit



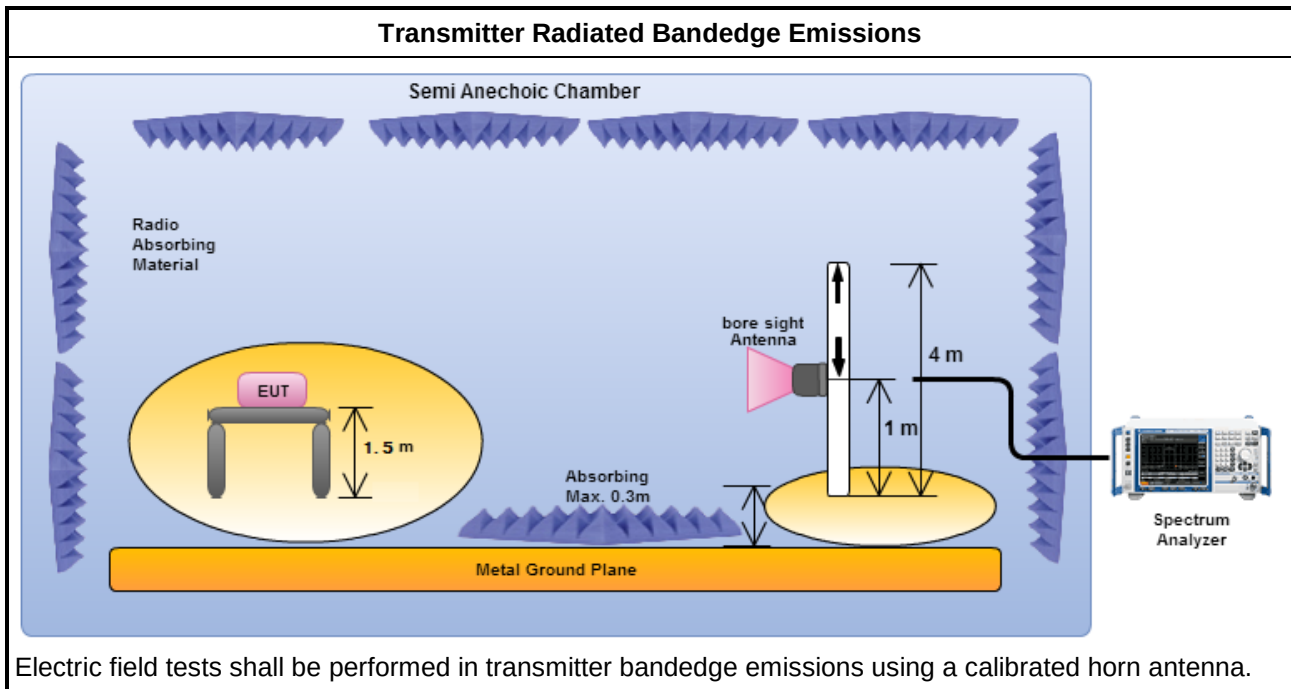
3.6.2 Measuring Instruments

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 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 4.1.4.2.2 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 Transmitter Radiated Bandedge Emissions

Refer as Appendix D

3.7 Transmitter Radiated Unwanted Emissions

3.7.1 Transmitter Radiated Unwanted Emissions 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.

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.

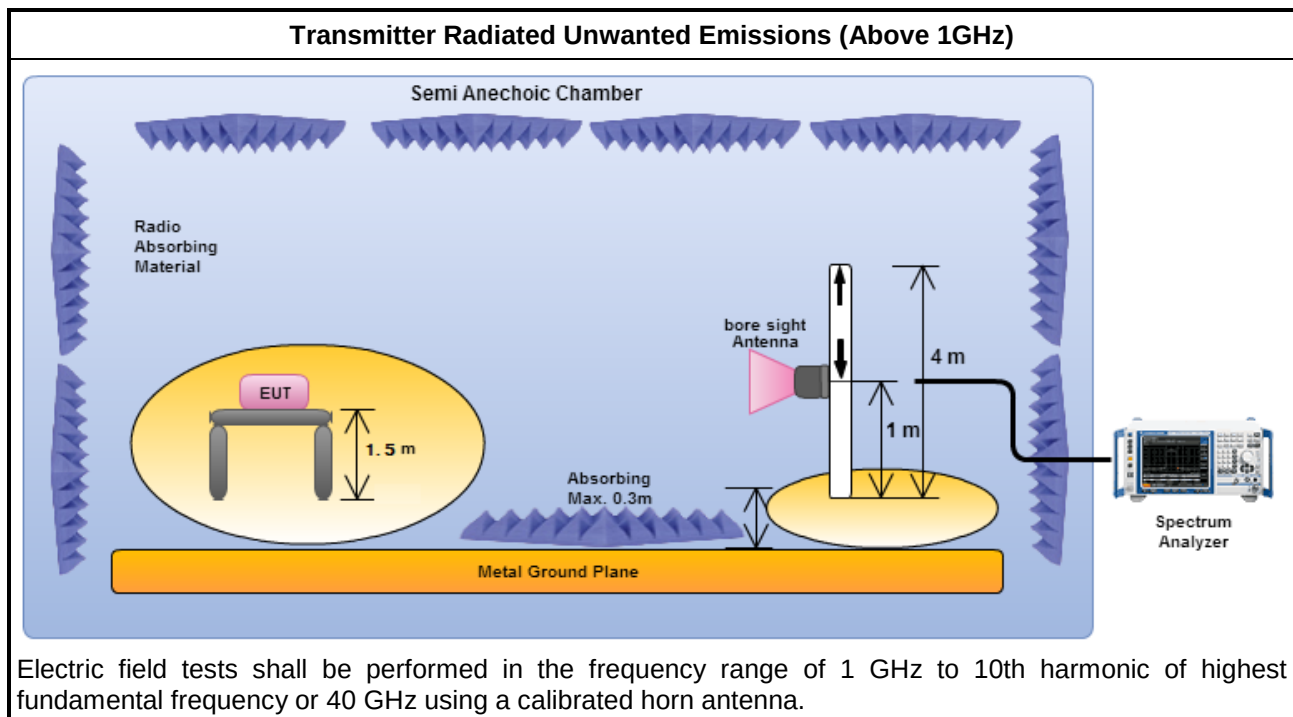
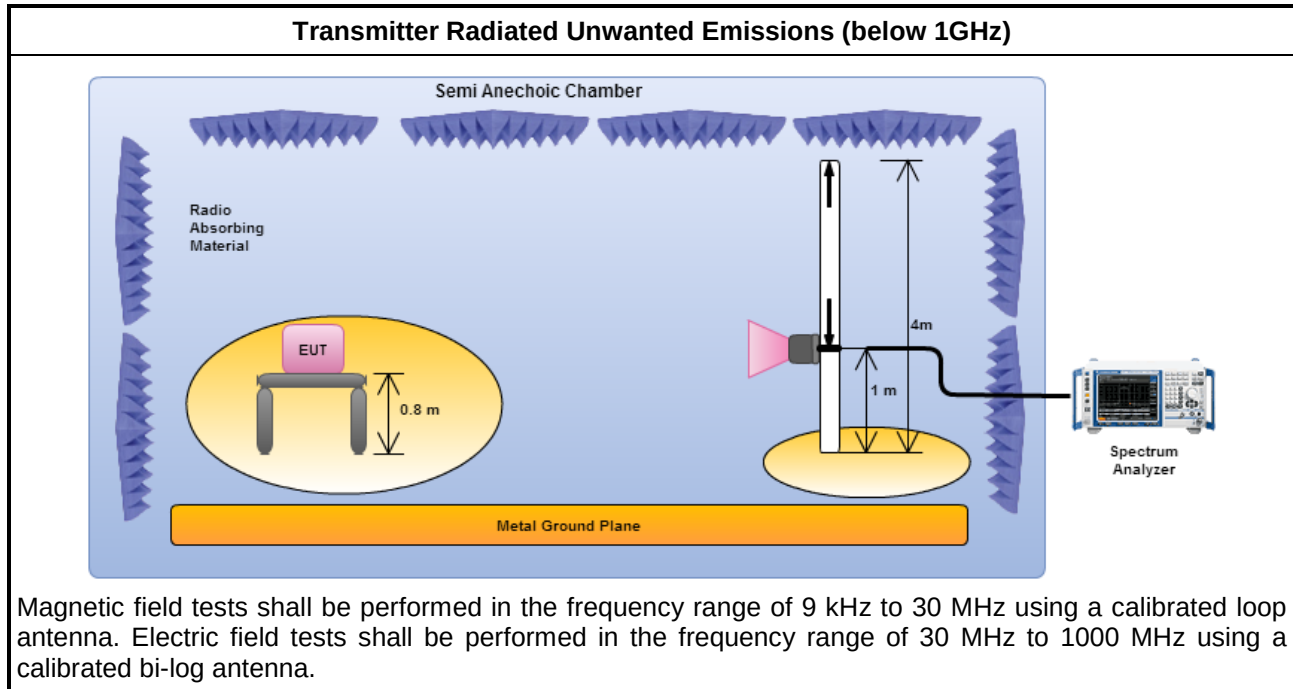
3.7.2 Measuring Instruments

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 FCC DA 00-0705, 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 4.1.4.2.2 measurement procedure 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



3.7.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

3.7.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
EMC Receiver	KETSIGHT	N9038A	MY54130031	20Hz ~ 8.4GHz	Apr. 14, 2016	Apr. 13, 2017
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	Jan. 26, 2016	Jan. 25, 2017
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	Oct. 30, 2015	Oct. 29, 2016
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	NCR	NCR
Bluetooth Tester	ROHDE&SCHWARZ	CBT	100959	N/A	Mar. 02, 2016	Mar. 01, 2017

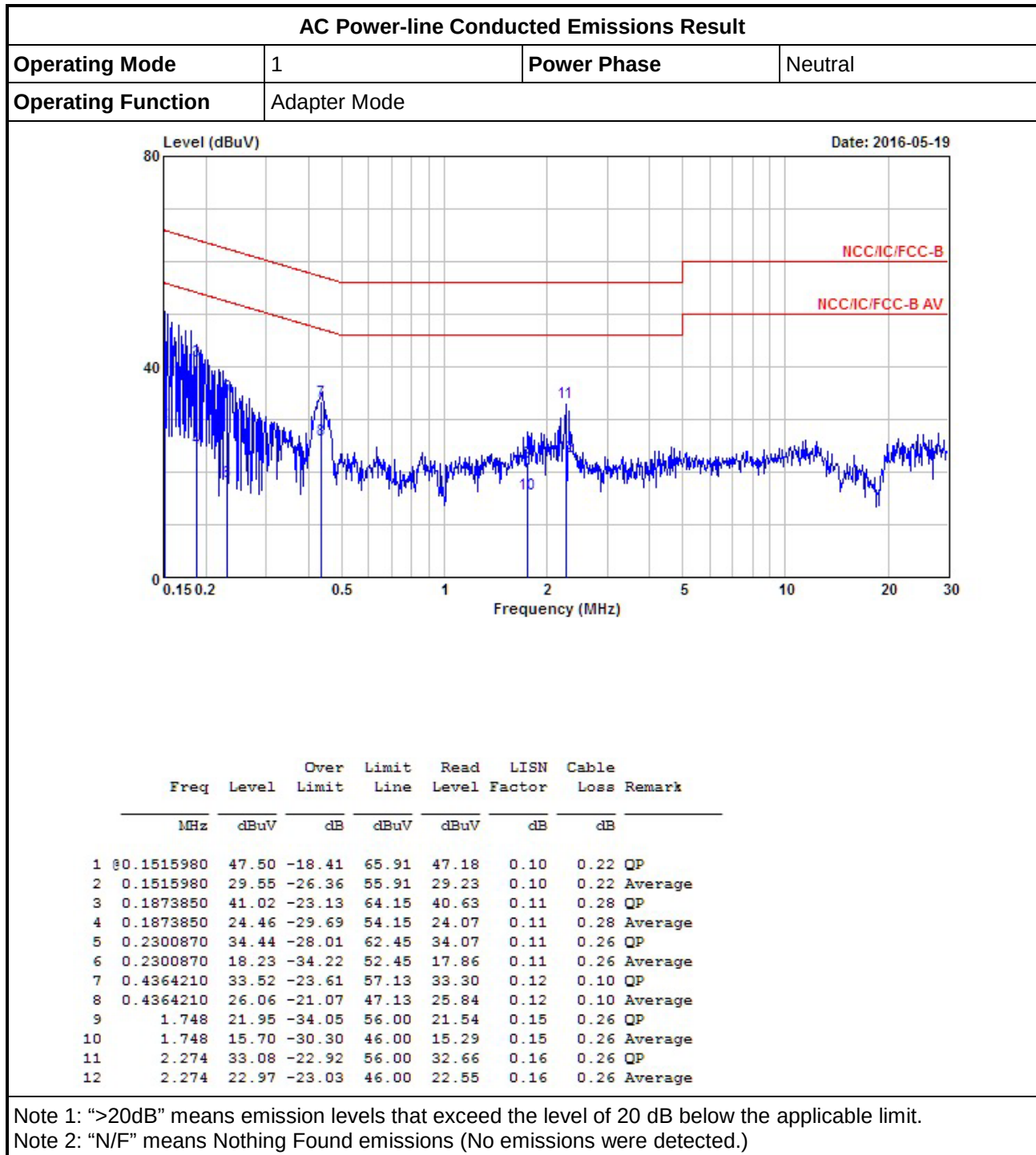
Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	Feb. 16, 2016	Feb. 15, 2017
Power Sensor	Anritsu	MA2411B	917017	300MHz ~ 40GHz	Feb. 04, 2016	Feb. 03, 2017
Power Meter	Anritsu	ML2495A	949003	300MHz ~ 40GHz	Feb. 04, 2016	Feb.03, 2017
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Jul. 21, 2016	Jul. 20, 2017
Bluetooth Tester	ROHDE&SCHWARZ	CBT	100959	N/A	Mar. 02, 2016	Mar. 01, 2017

Instrument for Radiated Test

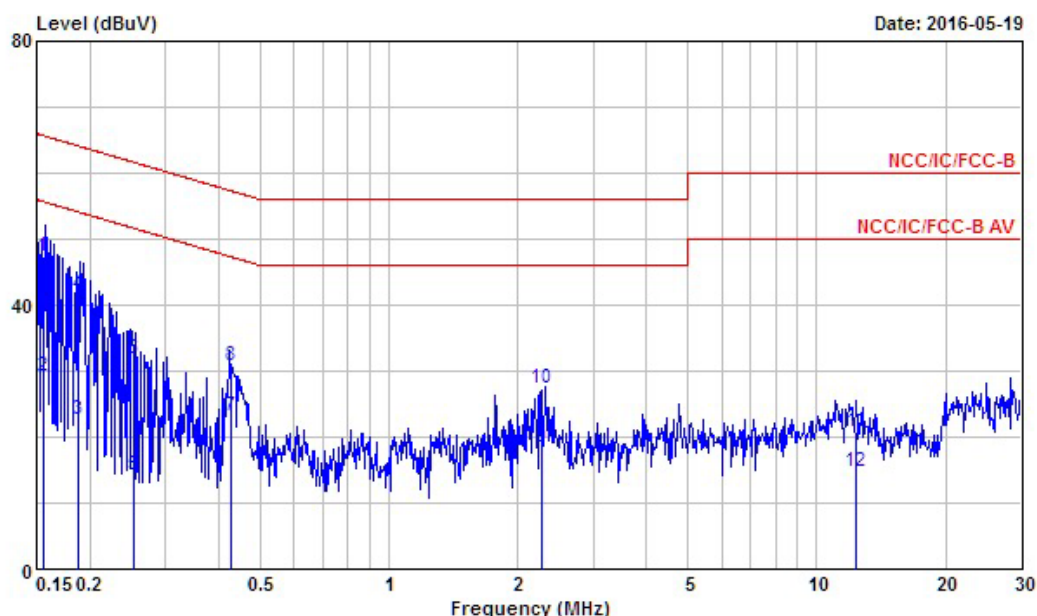
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz 3m	Apr. 25, 2016	Apr. 24, 2017
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz 3m	Jul. 01, 2015	Jun. 30, 2016
Amplifier	EMC	EMC9135	980232	9kHz ~ 1.0GHz	Jan. 29, 2016	Jan. 28, 2017
Amplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	Apr.11, 2016	Apr. 10, 2017
Spectrum	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	Jul. 15, 2015	Jul. 14, 2016
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL 6111D & MTJ6102	35418	30MHz ~ 1GHz	Mar. 31, 2016	Mar. 30, 2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120D 1534	1GHz ~ 18GHz	Apr. 22, 2016	Apr. 21, 2017
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170614	18GHz ~ 40GHz	Jan. 04, 2016	Jan. 03, 2017
Bluetooth Tester	ROHDE&SCHWARZ	CBT	100959	N/A	Mar. 02, 2016	Mar. 01, 2017
Loop Antenna	ROHDE&SCHWARZ	HFH2-Z2	100330	9 kHz~30 MHz	Nov. 10, 2014	Nov. 09, 2016

1. Test Result of AC Power-line Conducted Emissions



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1556950	47.44	-18.25	65.69	47.10	0.11	0.23	QP
2	0.1556950	29.32	-26.37	55.69	28.98	0.11	0.23	Average
3	0.1885810	22.70	-31.40	54.10	22.31	0.11	0.28	Average
4	0.1885810	41.51	-22.59	64.10	41.12	0.11	0.28	QP
5	0.2524540	14.30	-37.38	51.68	13.96	0.11	0.23	Average
6	0.2524540	31.81	-29.87	61.68	31.47	0.11	0.23	QP
7	0.4279340	23.11	-24.18	47.29	22.89	0.12	0.10	Average
8	0.4279340	30.76	-26.53	57.29	30.54	0.12	0.10	QP
9	2.275	18.34	-27.66	46.00	17.93	0.15	0.26	Average
10	2.275	27.50	-28.50	56.00	27.09	0.15	0.26	QP
11	12.380	20.78	-39.22	60.00	20.29	0.29	0.20	QP
12	12.380	14.61	-35.39	50.00	14.12	0.29	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.)



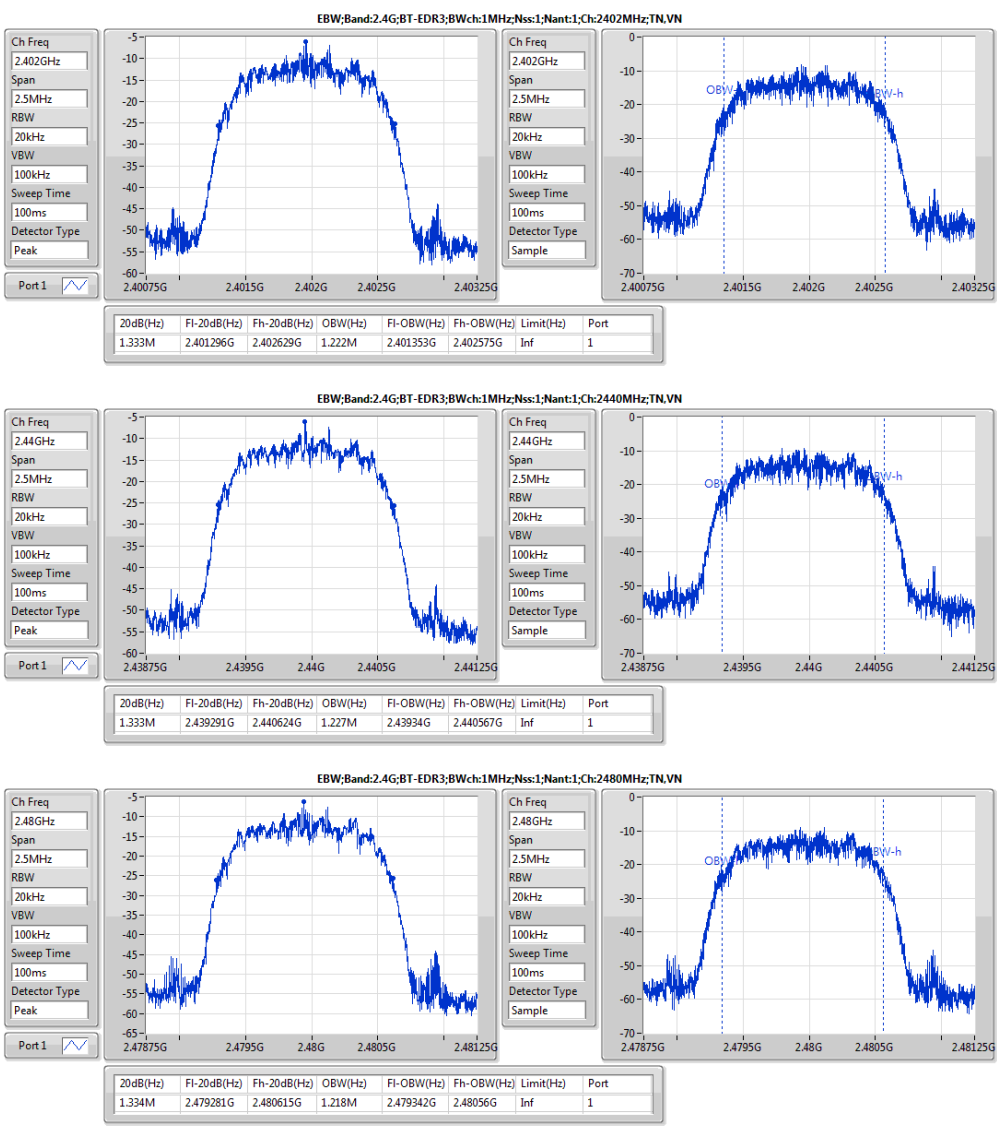
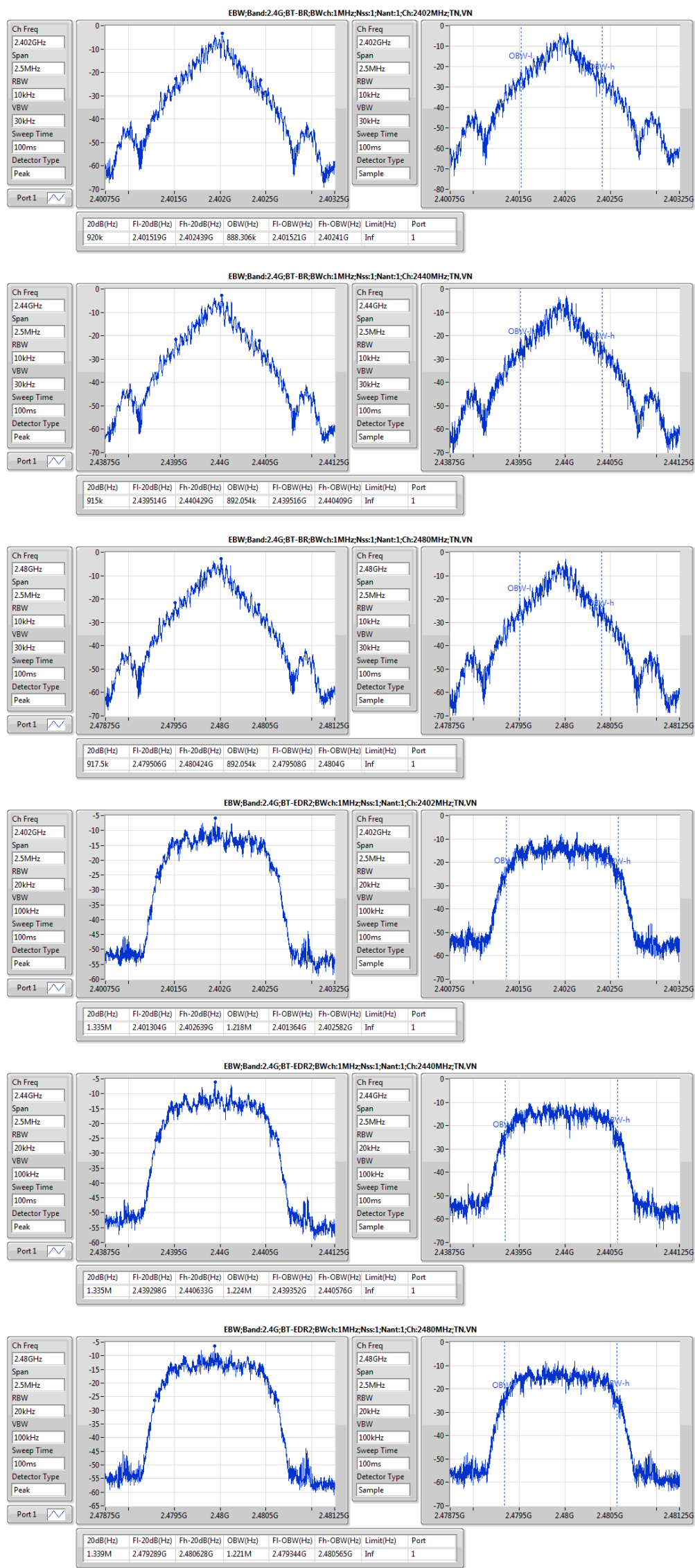
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4G;BT-BR;1;1;1	920k	892.054k	892kF1D	915k	888.306k
2.4G;BT-EDR2;1;1;1	1.339M	1.224M	1M22G1D	1.335M	1.218M
2.4G;BT-EDR3;1;1;1	1.334M	1.227M	1M23G1D	1.333M	1.218M



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	888.306k
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	Inf	915k	892.054k
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	Inf	917.5k	892.054k
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	Inf	1.335M	1.218M
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	Inf	1.335M	1.224M
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	Inf	1.339M	1.221M
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	Inf	1.333M	1.222M
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	Inf	1.333M	1.227M
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	Inf	1.334M	1.218M





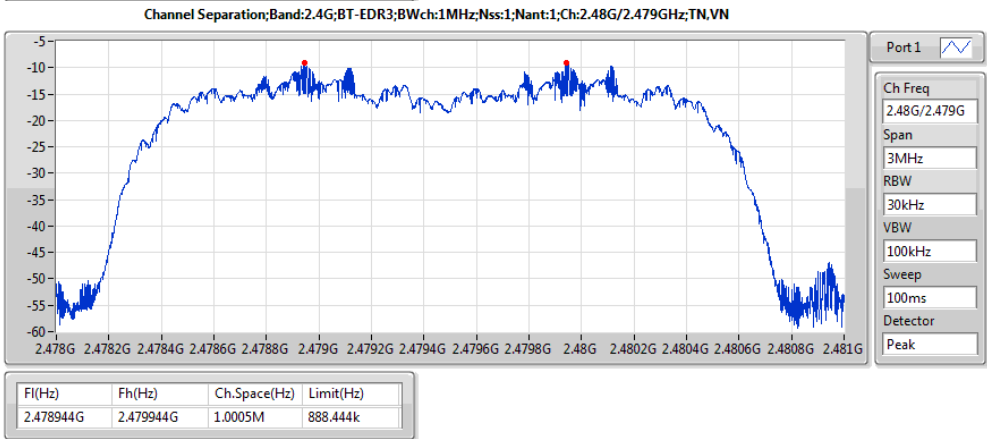
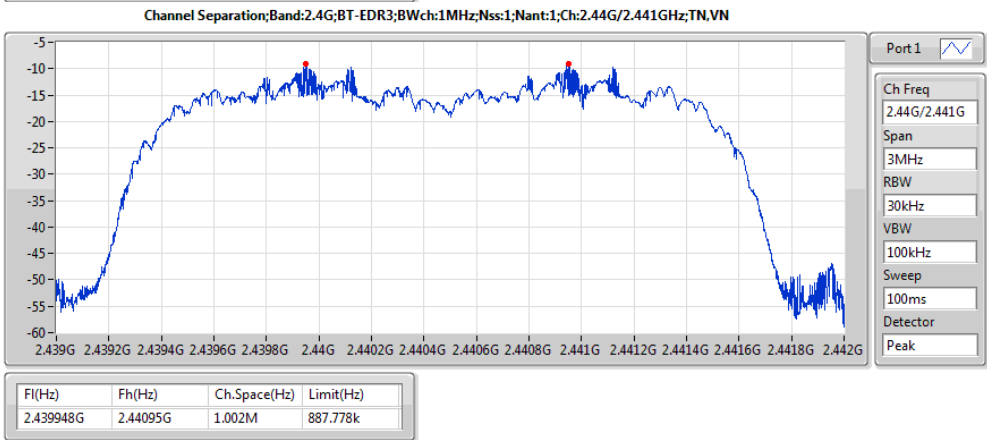
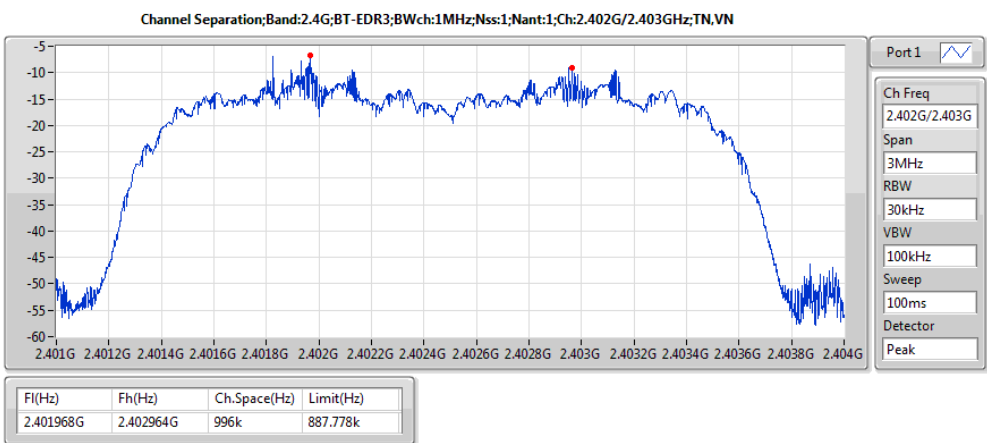
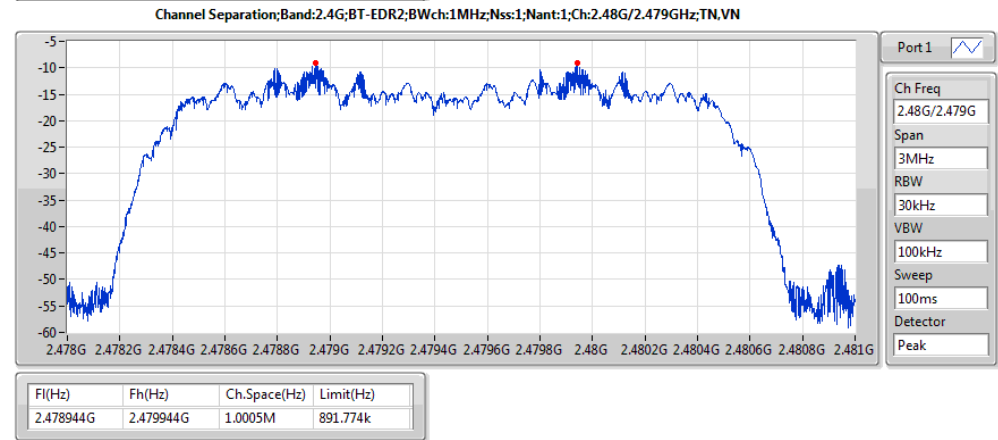
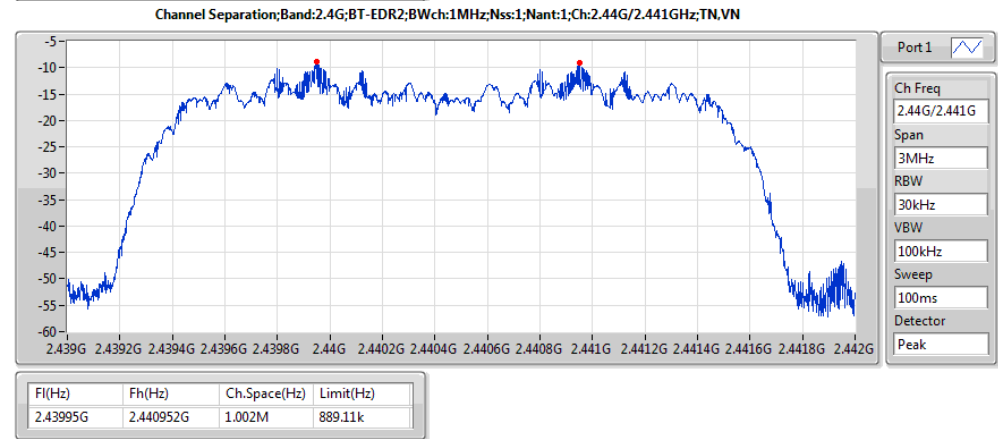
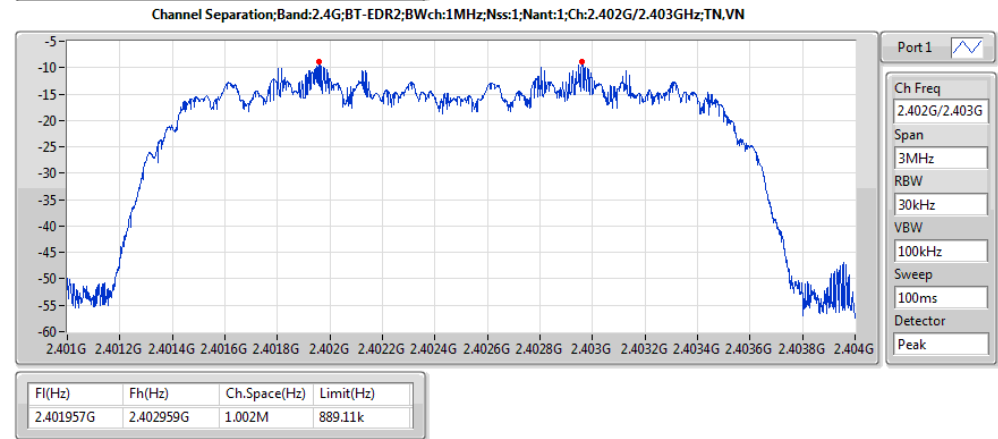
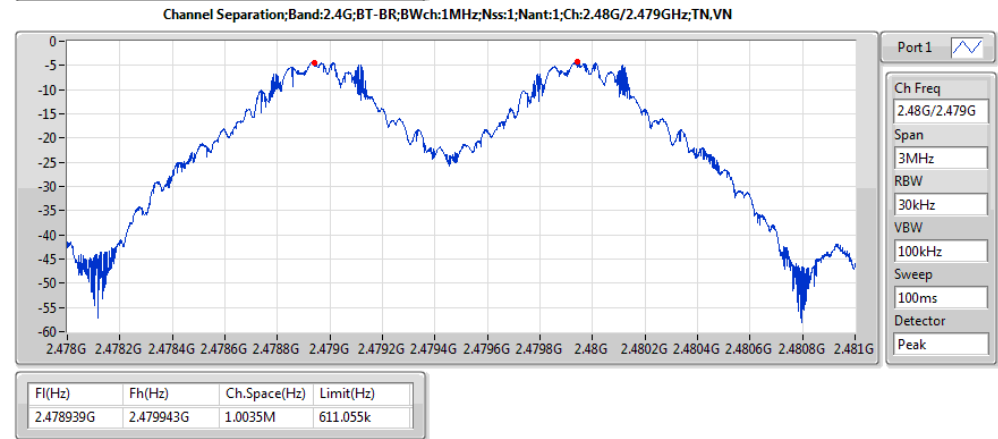
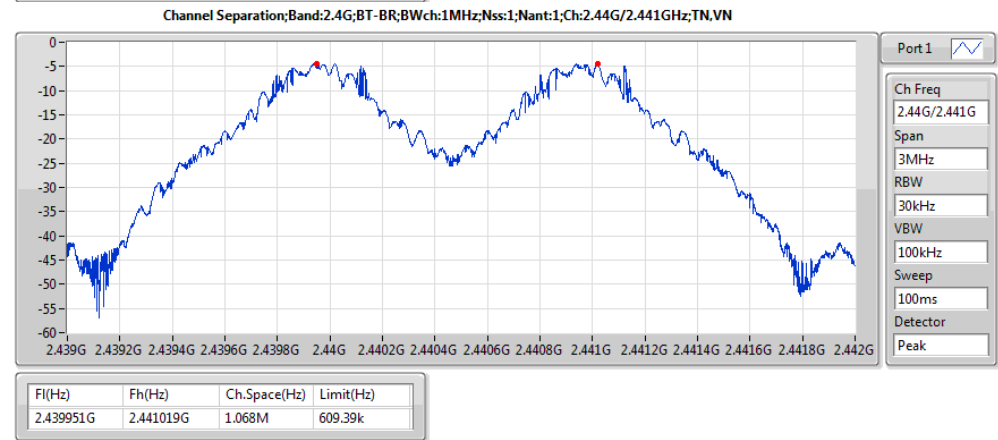
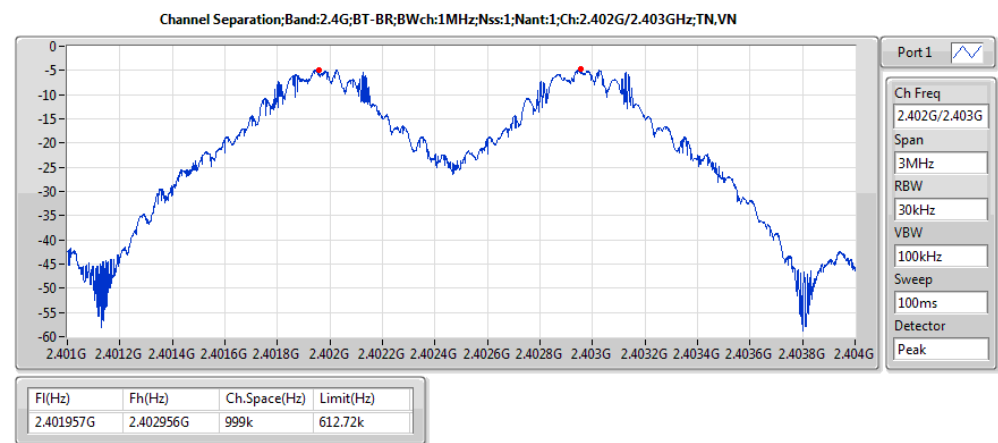
Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4G;BT-BR;1;1;1	1.068M	999k
2.4G;BT-EDR2;1;1;1	1.002M	1.0005M
2.4G;BT-EDR3;1;1;1	1.002M	996k



Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
2.4G;BT-BR;1;1;1;2402;L;TN,VN	Pass	2.401957G	2.402956G	999k	612.72k
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	2.439951G	2.441019G	1.068M	609.39k
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	2.478939G	2.479943G	1.0035M	611.055k
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	2.401957G	2.402959G	1.002M	889.11k
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	2.43995G	2.440952G	1.002M	889.11k
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	2.478944G	2.479944G	1.0005M	891.774k
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	2.401968G	2.402964G	996k	887.778k
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	2.439948G	2.44095G	1.002M	887.778k
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	2.478944G	2.479944G	1.0005M	888.444k





Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G;BT-BR;1;1;1	8.03	0.00635	4.45	0.00279
2.4G;BT-EDR2;1;1;1	8.34	0.00682	4.76	0.00299
2.4G;BT-EDR3;1;1;1	8.91	0.00778	5.33	0.00341



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	-3.58	6.87	21.00	3.29	27.00	6.87
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	-3.58	7.55	21.00	3.97	27.00	7.55
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	-3.58	8.03	21.00	4.45	27.00	8.03
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	-3.58	7.20	21.00	3.62	27.00	7.20
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	-3.58	7.89	21.00	4.31	27.00	7.89
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	-3.58	8.34	21.00	4.76	27.00	8.34
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	-3.58	7.84	21.00	4.26	27.00	7.84
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	-3.58	8.51	21.00	4.93	27.00	8.51
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	-3.58	8.91	21.00	5.33	27.00	8.91



Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G;BT-BR;1;1;1	7.92	0.00619	4.34	0.00272
2.4G;BT-EDR2;1;1;1	5.21	0.00332	1.63	0.00146
2.4G;BT-EDR3;1;1;1	5.09	0.00323	1.51	0.00142



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	-3.58	6.74	21.00	3.16	27.00	6.74
2.4G;BT-BR;1;1;1;2440;M;TN,VN	Pass	-3.58	7.44	21.00	3.86	27.00	7.44
2.4G;BT-BR;1;1;1;2480;H;TN,VN	Pass	-3.58	7.92	21.00	4.34	27.00	7.92
2.4G;BT-EDR2;1;1;1;2402;L;TN,VN	Pass	-3.58	3.92	21.00	0.34	27.00	3.92
2.4G;BT-EDR2;1;1;1;2440;M;TN,VN	Pass	-3.58	4.62	21.00	1.04	27.00	4.62
2.4G;BT-EDR2;1;1;1;2480;H;TN,VN	Pass	-3.58	5.21	21.00	1.63	27.00	5.21
2.4G;BT-EDR3;1;1;1;2402;L;TN,VN	Pass	-3.58	3.94	21.00	0.36	27.00	3.94
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	-3.58	4.65	21.00	1.07	27.00	4.65
2.4G;BT-EDR3;1;1;1;2480;H;TN,VN	Pass	-3.58	5.09	21.00	1.51	27.00	5.09



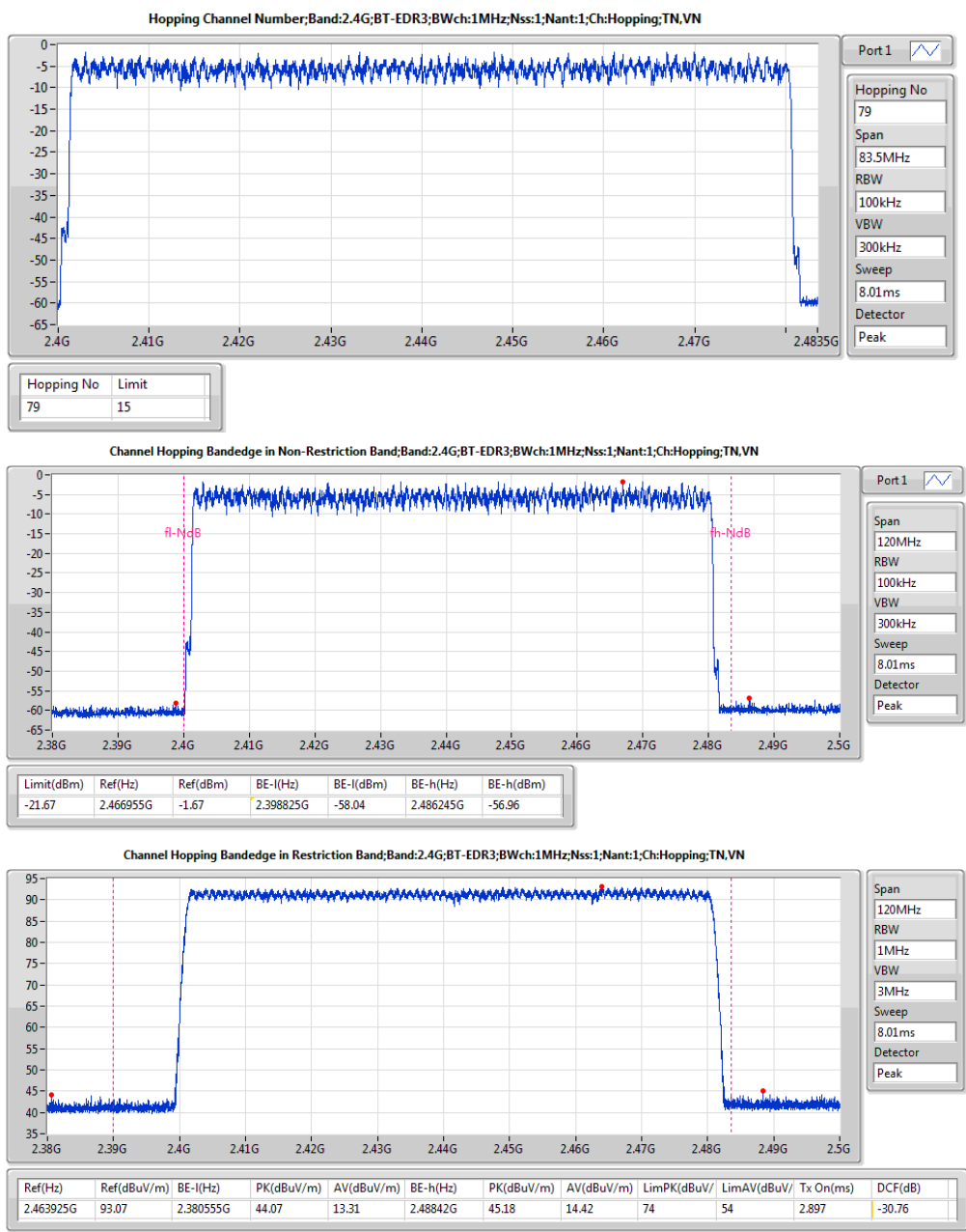
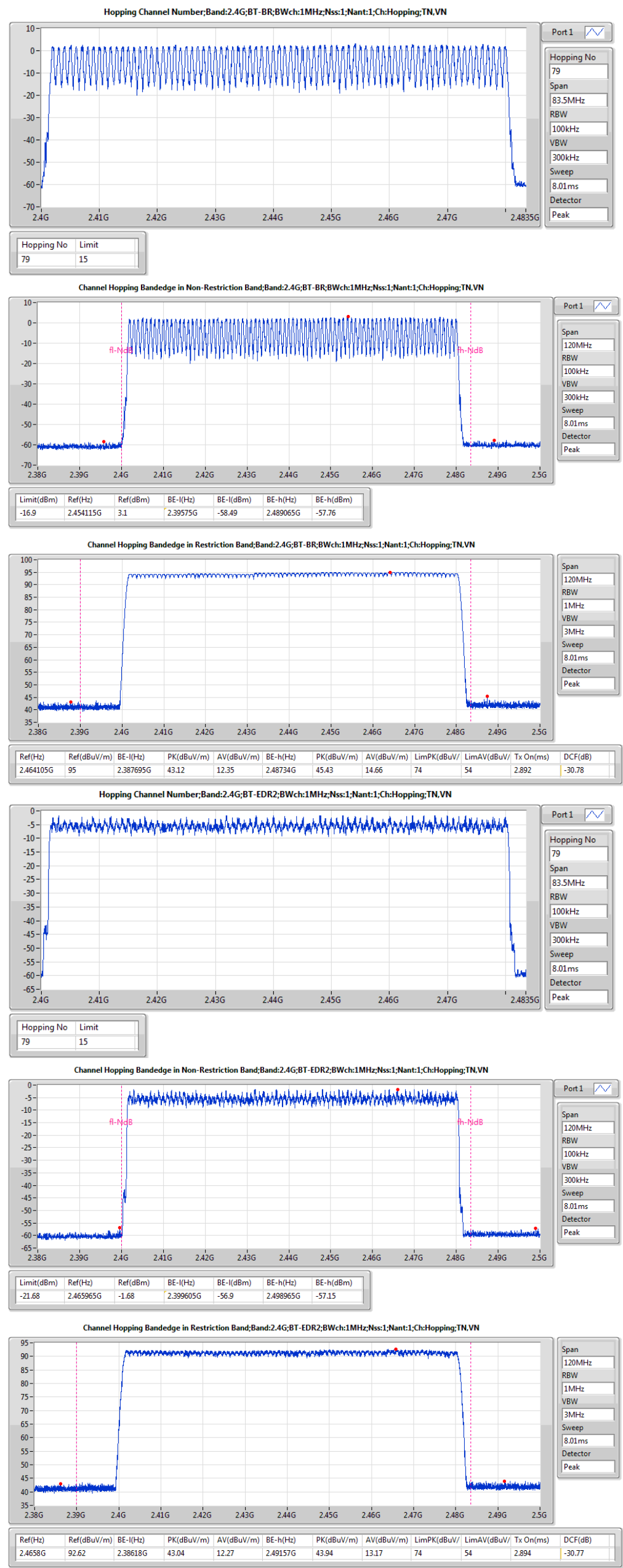
Summary

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





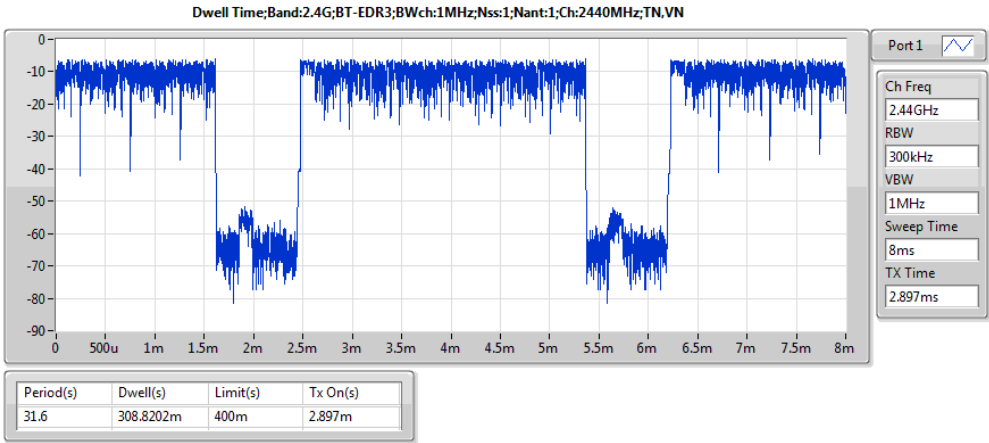
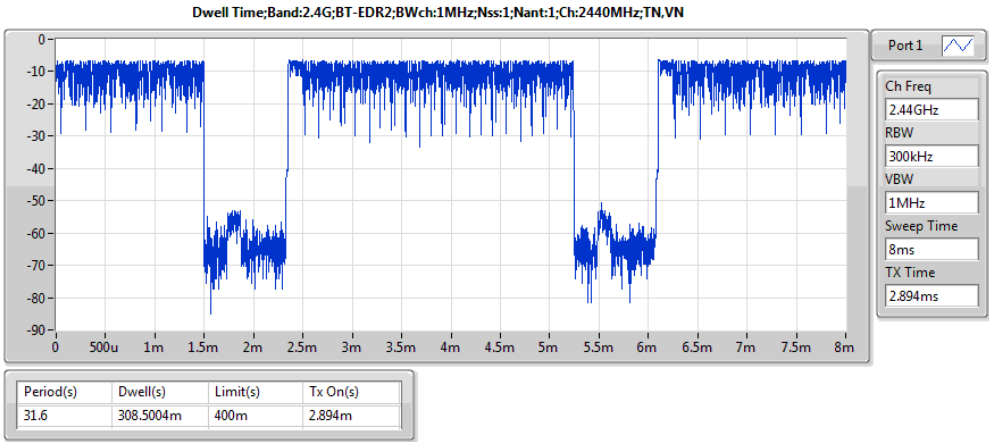
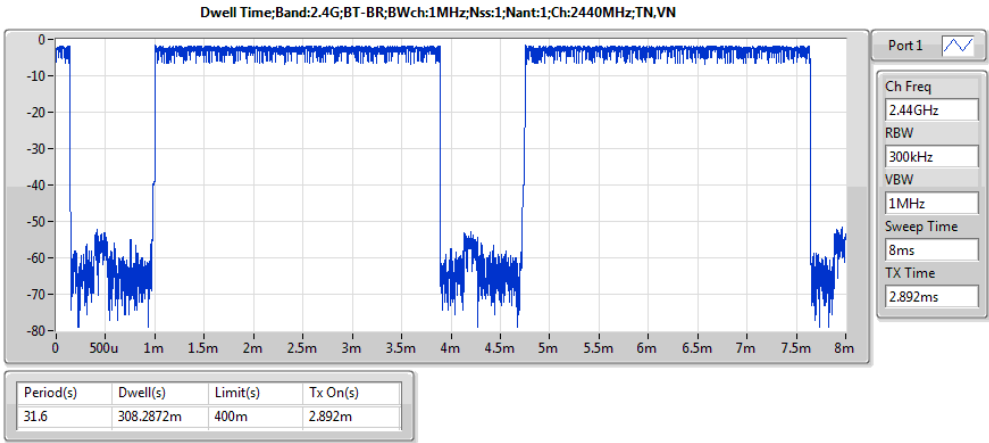
Summary

Mode	Max-Dwell (s)
2.4G;BT-BR;1;1;1	308.2872m
2.4G;BT-EDR2;1;1;1	308.5004m
2.4G;BT-EDR3;1;1;1	308.8202m



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	308.5004m	400m	2.894m
2.4G;BT-EDR3;1;1;1;2440;M;TN,VN	Pass	31.6	308.8202m	400m	2.897m



Transmitter Radiated Bandedge Emissions (Non-restricted Band)							
Modulation	Test Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Pol.
1M-DH5	2402	96.17	2399.76	41.94	54.23	20	H
1M-DH5	2480	95.57	2537.92	41.51	54.06	20	H
2M-DH5	2402	93.01	2399.55	48.24	44.77	20	H
2M-DH5	2480	92.78	2520.16	41.54	51.24	20	H
3M-DH5	2402	93.09	2399.55	48.46	44.63	20	H
3M-DH5	2480	92.79	2514.08	42.02	50.77	20	H

Note 1: Measurement worst emissions of receive antenna polarization

Transmitter Radiated Bandedge Emissions (Restricted Band)									
Modulation Mode	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
1M-DH5	2402	3	2387.31	52.66	74	2387.31	22.56	54	H
1M-DH5	2480	3	2484.48	52.19	74	2484.48	22.09	54	H
2M-DH5	2402	3	2387.72	51.96	74	2387.72	21.89	54	H
2M-DH5	2480	3	2494.24	51.52	74	2494.24	31.52	54	H
3M-DH5	2402	3	2387.72	51.55	74	2387.72	21.45	54	H
3M-DH5	2480	3	2484.48	51.66	74	2484.48	21.56	54	H

Note 1: Measurement worst emissions of receive antenna polarization.
Note 2: Average emission setting: RBW=1MHz; VBW $\geq 1/T$, where T is "Pulse On Time", e.g., DH5 VBW $\geq 1/3.125$ ms, VBW=1kHz

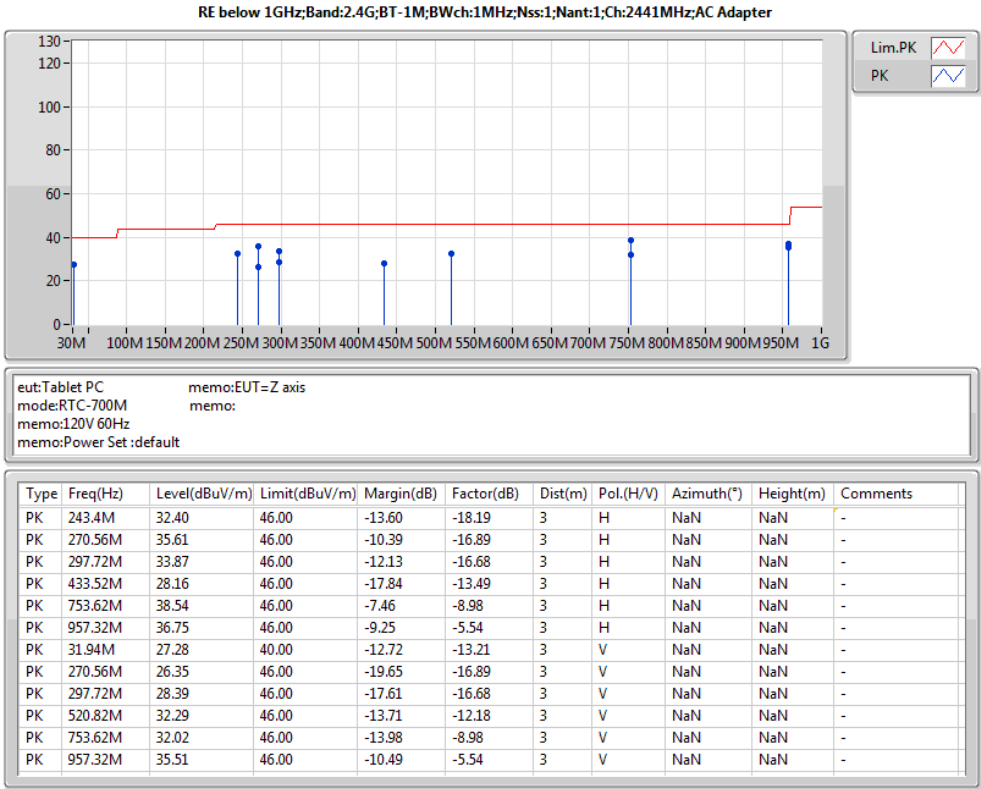


Summary

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-1M;1;1;1;2441;M;AC Adapter	Pass	PK	753.62M	38.54	46.00	-7.46	-8.98	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-1M;1;1;1;2441;M;AC Adapter	Pass	PK	243.4M	32.40	46.00	-13.60	-18.19	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;AC Adapter	Pass	PK	270.56M	35.61	46.00	-10.39	-16.89	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;AC Adapter	Pass	PK	297.72M	33.87	46.00	-12.13	-16.68	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;AC Adapter	Pass	PK	433.52M	28.16	46.00	-17.84	-13.49	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;AC Adapter	Pass	PK	753.62M	38.54	46.00	-7.46	-8.98	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;AC Adapter	Pass	PK	957.32M	36.75	46.00	-9.25	-5.54	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;AC Adapter	Pass	PK	31.94M	27.28	40.00	-12.72	-13.21	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;AC Adapter	Pass	PK	270.56M	26.35	46.00	-19.65	-16.89	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;AC Adapter	Pass	PK	297.72M	28.39	46.00	-17.61	-16.68	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;AC Adapter	Pass	PK	520.82M	32.29	46.00	-13.71	-12.18	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;AC Adapter	Pass	PK	753.62M	32.02	46.00	-13.98	-8.98	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;AC Adapter	Pass	PK	957.32M	35.51	46.00	-10.49	-5.54	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-1M;1;1;1;2402;L;TX	Pass	PK	4.804G	62.60	74.00	-11.40	2.06	3	V	NaN	NaN	-

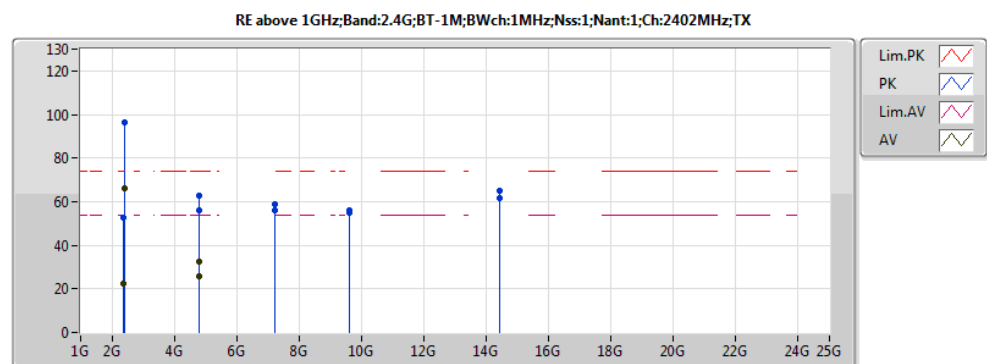


Result

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-1M;1;1;1;2402;L;TX	Pass	AV	2.387316G	22.56	54.00	-31.44	-4.10	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	AV	2.4018G	66.11	Inf	-Inf	-3.80	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	PK	2.387316G	52.66	74.00	-21.34	-4.10	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	PK	2.4018G	96.21	Inf	-Inf	-3.80	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	AV	4.804G	25.76	54.00	-28.24	2.06	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	PK	4.804G	55.86	74.00	-18.14	2.06	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	PK	7.206G	56.09	Inf	-Inf	7.99	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	PK	9.608G	56.07	Inf	-Inf	11.47	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	PK	14.412G	61.51	Inf	-Inf	17.46	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	AV	4.804G	32.50	54.00	-21.50	2.06	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	PK	4.804G	62.60	74.00	-11.40	2.06	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	PK	7.206G	59.09	Inf	-Inf	7.99	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	PK	9.608G	55.17	Inf	-Inf	11.47	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2402;L;TX	Pass	PK	14.412G	64.96	Inf	-Inf	17.46	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	AV	2.36054G	20.68	54.00	-33.32	-4.10	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	AV	2.44072G	66.26	Inf	-Inf	-3.69	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	AV	2.48632G	21.09	54.00	-32.91	-4.10	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	PK	2.36054G	50.78	74.00	-23.22	-4.10	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	PK	2.44072G	96.36	Inf	-Inf	-3.69	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	PK	2.48632G	51.19	74.00	-22.81	-4.10	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	AV	4.882G	25.72	54.00	-28.28	2.22	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	PK	4.882G	55.82	74.00	-18.18	2.22	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	AV	7.323G	28.43	54.00	-25.57	8.32	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	PK	7.323G	58.53	74.00	-15.47	8.32	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	PK	9.764G	56.34	Inf	-Inf	11.74	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	PK	14.646G	61.08	Inf	-Inf	17.38	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	AV	4.882G	30.92	54.00	-23.08	2.22	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	PK	4.882G	61.02	74.00	-12.98	2.22	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	AV	7.323G	30.02	54.00	-23.98	8.32	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	PK	7.323G	60.12	74.00	-13.88	8.32	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	PK	9.764G	55.54	Inf	-Inf	11.74	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2441;M;TX	Pass	PK	14.646G	65.48	Inf	-Inf	17.38	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	AV	2.47968G	65.51	Inf	-Inf	-3.58	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	AV	2.48448G	22.09	54.00	-31.91	-3.60	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	PK	2.47968G	95.61	Inf	-Inf	-3.58	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	PK	2.48448G	52.19	74.00	-21.81	-3.60	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	AV	4.96G	25.13	54.00	-28.87	2.38	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	PK	4.96G	55.23	74.00	-18.77	2.38	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	AV	7.44G	28.49	54.00	-25.51	8.66	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	PK	7.44G	58.59	74.00	-15.41	8.66	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	PK	9.92G	56.35	Inf	-Inf	12.00	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	PK	14.88G	60.61	Inf	-Inf	17.31	3	H	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	AV	4.96G	28.79	54.00	-25.21	2.38	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	PK	4.96G	58.89	74.00	-15.11	2.38	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	AV	7.44G	27.86	54.00	-26.14	8.66	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	PK	7.44G	57.96	74.00	-16.04	8.66	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	PK	9.92G	55.57	Inf	-Inf	12.00	3	V	NaN	NaN	-
2.4G;BT-1M;1;1;1;2480;H;TX	Pass	PK	14.88G	65.81	Inf	-Inf	17.31	3	V	NaN	NaN	-
2.4G;BT-2M;1;1;1;2402;L;TX	Pass	AV	2.387724G	21.86	54.00	-32.14	-4.10	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2402;L;TX	Pass	AV	2.402004G	65.48	Inf	-Inf	-3.80	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2402;L;TX	Pass	PK	2.387724G	51.96	74.00	-22.04	-4.10	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2402;L;TX	Pass	PK	2.402004G	95.58	Inf	-Inf	-3.80	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2441;M;TX	Pass	AV	2.38334G	21.32	54.00	-32.68	-4.10	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2441;M;TX	Pass	AV	2.4411G	65.65	Inf	-Inf	-3.69	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2441;M;TX	Pass	AV	2.49582G	22.09	54.00	-31.91	-4.10	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2441;M;TX	Pass	PK	2.38334G	51.42	74.00	-22.58	-4.10	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2441;M;TX	Pass	PK	2.4411G	95.75	Inf	-Inf	-3.69	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2441;M;TX	Pass	PK	2.49582G	52.19	74.00	-21.81	-4.10	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2480;H;TX	Pass	AV	2.48G	65.12	Inf	-Inf	-3.58	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2480;H;TX	Pass	AV	2.49424G	21.42	54.00	-32.58	-3.60	3	H	NaN	NaN	-
2.4G;BT-2M;1;1;1;2480;H;TX	Pass	PK	2.48G	95.22	Inf	-Inf	-3.58	3	H	NaN	NaN	-



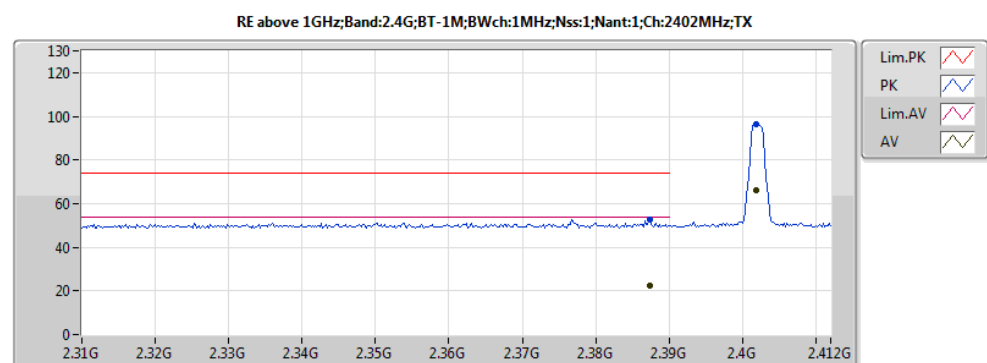
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
2.4G;BT-2M;1;1;1;2480;H;TX	Pass	PK	2.49424G	51.52	74.00	-22.48	-3.60	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2402;L;TX	Pass	AV	2.387724G	21.45	54.00	-32.55	-4.10	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2402;L;TX	Pass	AV	2.402004G	66.16	Inf	-Inf	-3.80	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2402;L;TX	Pass	PK	2.387724G	51.55	74.00	-22.45	-4.10	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2402;L;TX	Pass	PK	2.402004G	96.26	Inf	-Inf	-3.80	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2441;M;TX	Pass	AV	2.36548G	21.16	54.00	-32.84	-4.10	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2441;M;TX	Pass	AV	2.4411G	66.46	Inf	-Inf	-3.69	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2441;M;TX	Pass	AV	2.48822G	21.05	54.00	-32.95	-4.10	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2441;M;TX	Pass	PK	2.36548G	51.26	74.00	-22.74	-4.10	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2441;M;TX	Pass	PK	2.4411G	96.56	Inf	-Inf	-3.69	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2441;M;TX	Pass	PK	2.48822G	51.15	74.00	-22.85	-4.10	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2480;H;TX	Pass	AV	2.48G	65.77	Inf	-Inf	-3.58	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2480;H;TX	Pass	AV	2.48448G	21.56	54.00	-32.44	-3.60	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2480;H;TX	Pass	PK	2.48G	95.87	Inf	-Inf	-3.58	3	H	NaN	NaN	-
2.4G;BT-3M;1;1;1;2480;H;TX	Pass	PK	2.48448G	51.66	74.00	-22.34	-3.60	3	H	NaN	NaN	-



eut:Tablet PC
mode:RTC-700M
memo:120V 60Hz
memo:Power Set :default

memo:EUT=Z axis
memo:

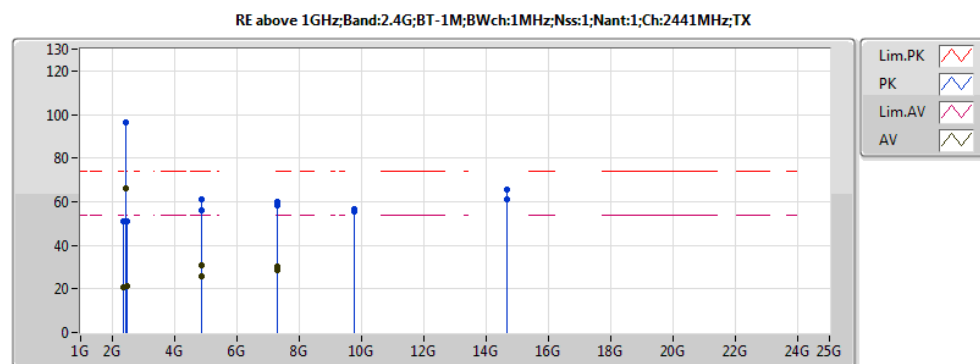
Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.387316G	22.56	54.00	-31.44	-4.10	3	H	NaN	NaN	-
AV	2.4018G	66.11	Inf	-Inf	-3.80	3	H	NaN	NaN	-
PK	2.387316G	52.66	74.00	-21.34	-4.10	3	H	NaN	NaN	-
PK	2.4018G	96.21	Inf	-Inf	-3.80	3	H	NaN	NaN	-
AV	4.804G	25.76	54.00	-28.24	2.06	3	H	NaN	NaN	-
PK	4.804G	55.86	74.00	-18.14	2.06	3	H	NaN	NaN	-
PK	7.206G	56.09	Inf	-Inf	7.99	3	H	NaN	NaN	-
PK	9.608G	56.07	Inf	-Inf	11.47	3	H	NaN	NaN	-
PK	14.412G	61.51	Inf	-Inf	17.46	3	H	NaN	NaN	-
AV	4.804G	32.50	54.00	-21.50	2.06	3	V	NaN	NaN	-
PK	4.804G	62.60	74.00	-11.40	2.06	3	V	NaN	NaN	-
PK	7.206G	59.09	Inf	-Inf	7.99	3	V	NaN	NaN	-
PK	9.608G	55.17	Inf	-Inf	11.47	3	V	NaN	NaN	-
PK	14.412G	64.96	Inf	-Inf	17.46	3	V	NaN	NaN	-



eut:Tablet PC
mode:RTC-700M
memo:120V 60Hz
memo:Power Set :default

memo:EUT=Z axis
memo:

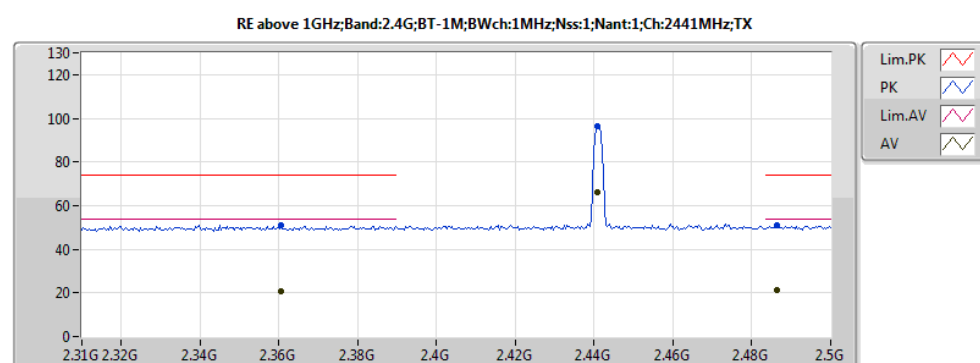
Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	2.387316G	52.66	74.00	-21.34	-4.10	3	H	NaN	NaN	-
AV	2.387316G	22.56	54.00	-31.44	-4.10	3	H	NaN	NaN	-
PK	2.4018G	96.21	Inf	-Inf	-3.80	3	H	NaN	NaN	-
AV	2.4018G	66.11	Inf	-Inf	-3.80	3	H	NaN	NaN	-



eut:Tablet PC
mode:RTC-700M
memo:120V 60Hz
memo:Power Set :default

memo:EUT=Z axis
memo:

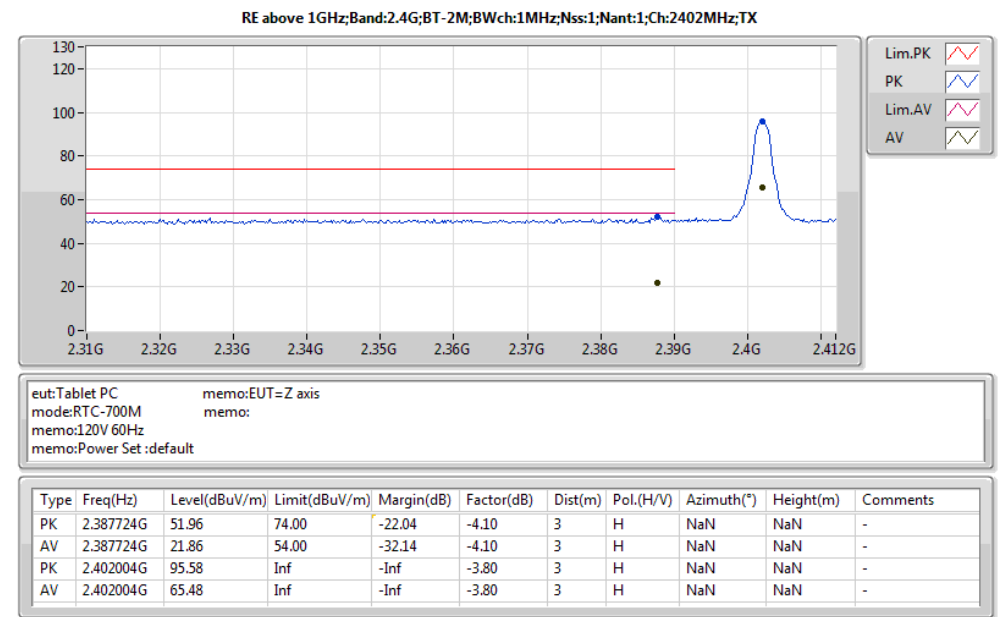
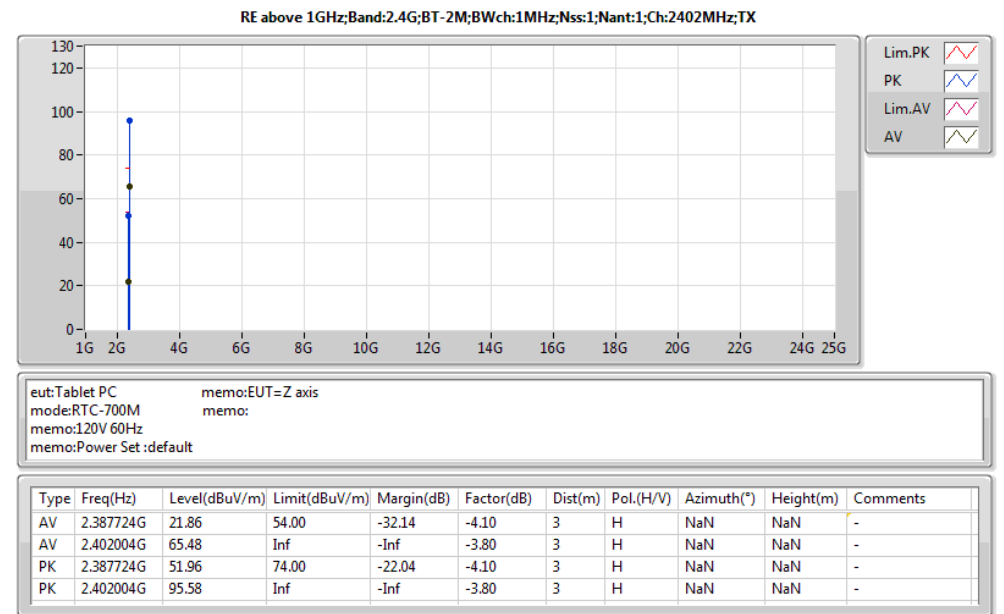
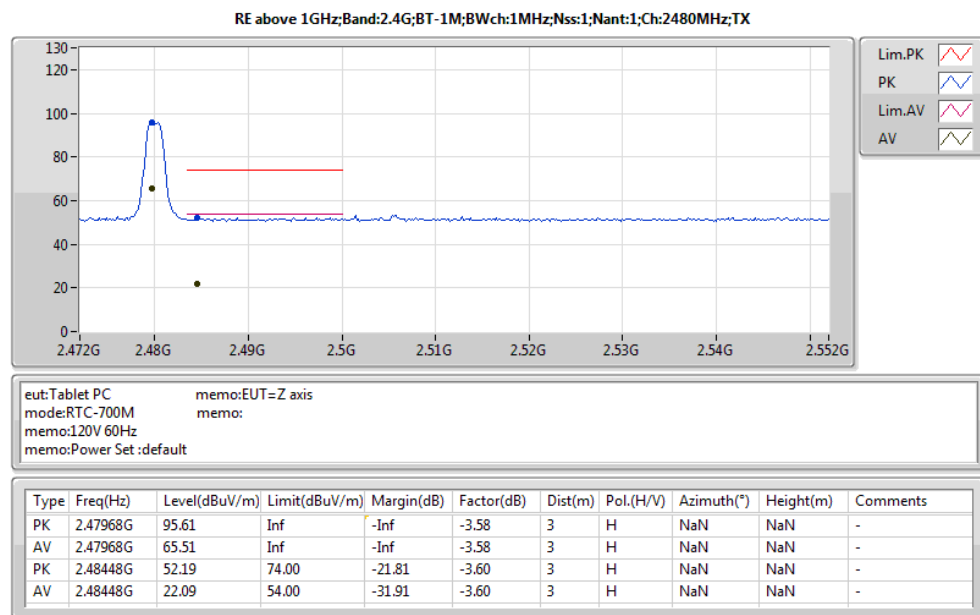
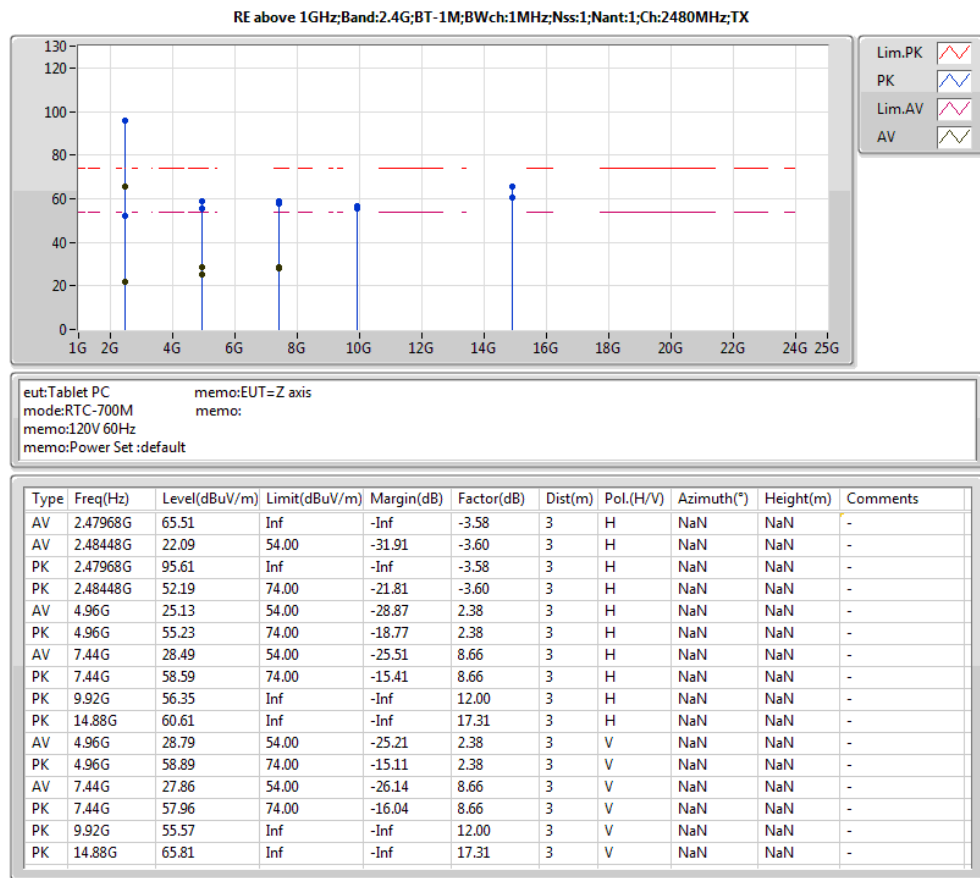
Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.36054G	20.68	54.00	-33.32	-4.10	3	H	NaN	NaN	-
AV	2.44072G	66.26	Inf	-Inf	-3.69	3	H	NaN	NaN	-
AV	2.48632G	21.09	54.00	-32.91	-4.10	3	H	NaN	NaN	-
PK	2.36054G	50.78	74.00	-23.22	-4.10	3	H	NaN	NaN	-
PK	2.44072G	96.36	Inf	-Inf	-3.69	3	H	NaN	NaN	-
PK	2.48632G	51.19	74.00	-22.81	-4.10	3	H	NaN	NaN	-
AV	4.882G	25.72	54.00	-28.28	2.22	3	H	NaN	NaN	-
PK	4.882G	55.82	74.00	-18.18	2.22	3	H	NaN	NaN	-
AV	7.323G	28.43	54.00	-25.57	8.32	3	H	NaN	NaN	-
PK	7.323G	58.53	74.00	-15.47	8.32	3	H	NaN	NaN	-
PK	9.764G	56.34	Inf	-Inf	11.74	3	H	NaN	NaN	-
PK	14.646G	61.08	Inf	-Inf	17.38	3	H	NaN	NaN	-
AV	4.882G	30.92	54.00	-23.08	2.22	3	V	NaN	NaN	-
PK	4.882G	61.02	74.00	-12.98	2.22	3	V	NaN	NaN	-
AV	7.323G	30.02	54.00	-23.98	8.32	3	V	NaN	NaN	-
PK	7.323G	60.12	74.00	-13.88	8.32	3	V	NaN	NaN	-
PK	9.764G	55.54	Inf	-Inf	11.74	3	V	NaN	NaN	-
PK	14.646G	65.48	Inf	-Inf	17.38	3	V	NaN	NaN	-

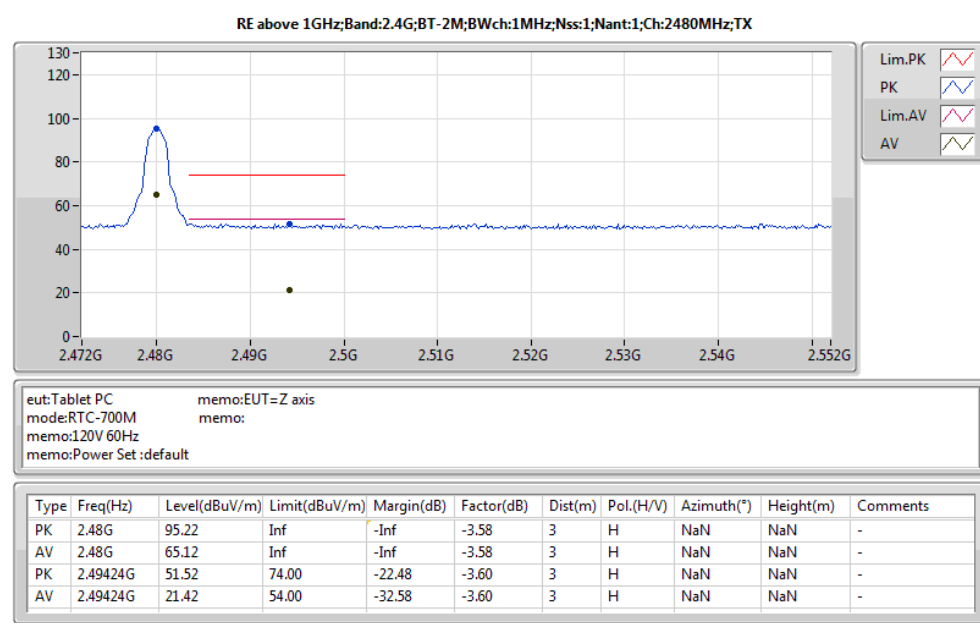
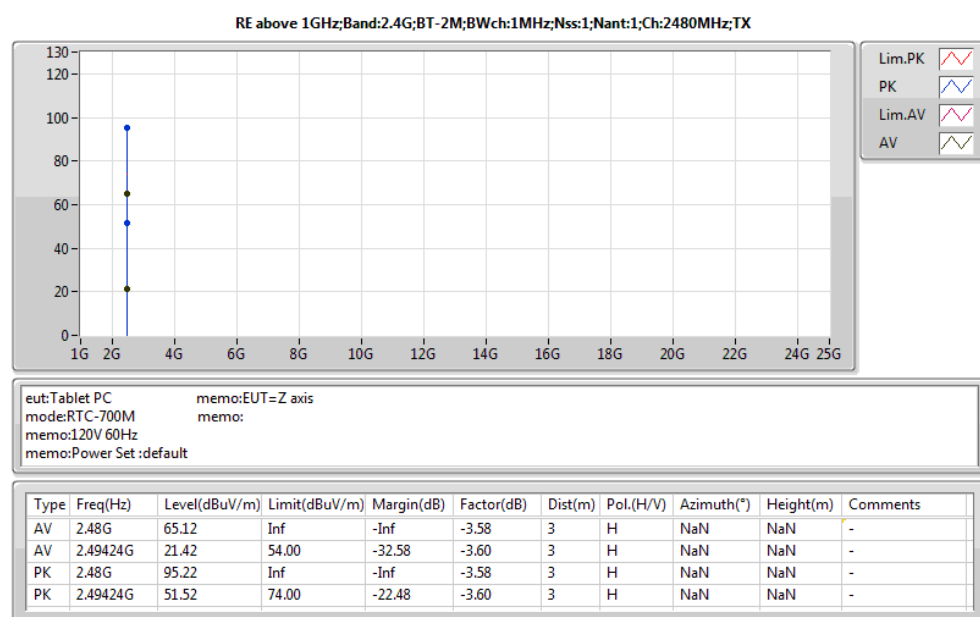
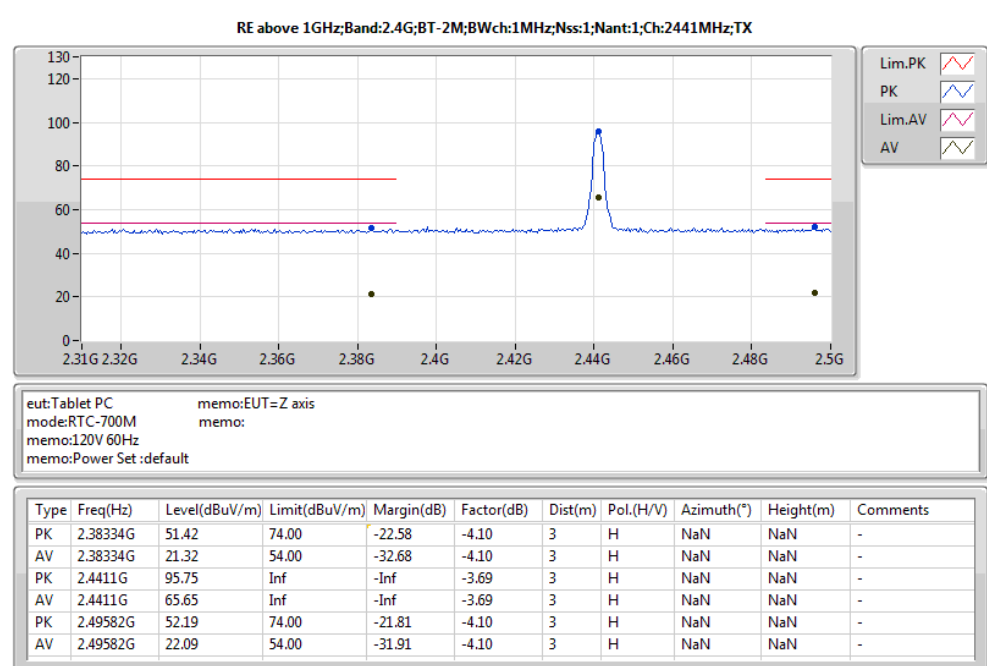
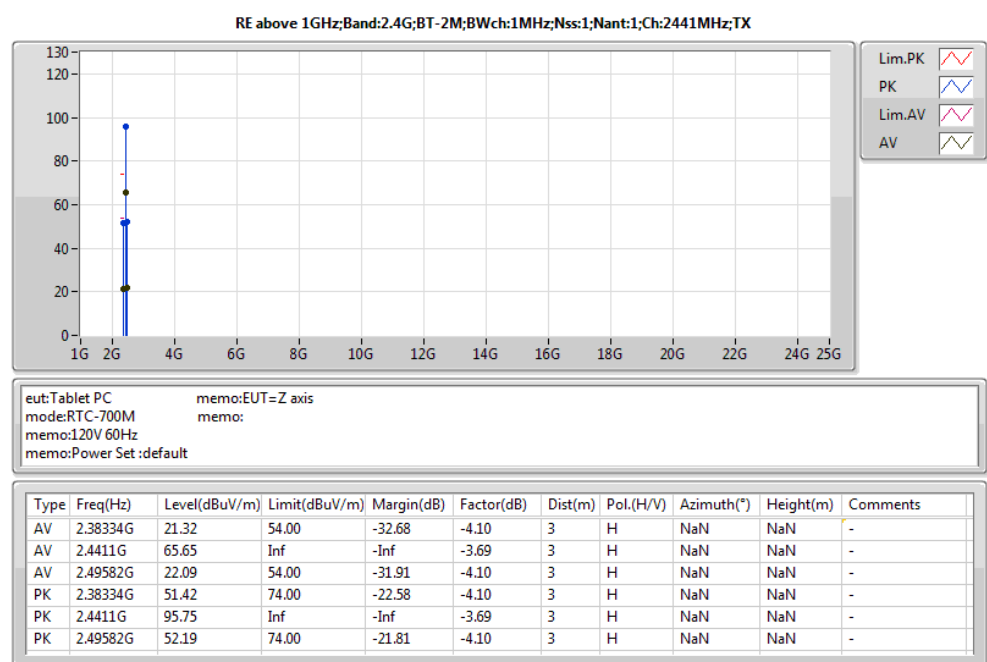


eut:Tablet PC
mode:RTC-700M
memo:120V 60Hz
memo:Power Set :default

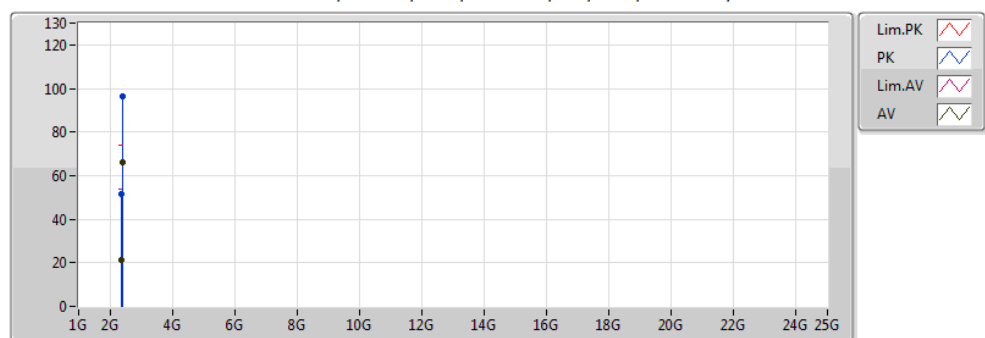
memo:EUT=Z axis
memo:

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	2.36054G	50.78	74.00	-23.22	-4.10	3	H	NaN	NaN	-
AV	2.36054G	20.68	54.00	-33.32	-4.10	3	H	NaN	NaN	-
PK	2.44072G	96.36	Inf	-Inf	-3.69	3	H	NaN	NaN	-
AV	2.44072G	66.26	Inf	-Inf	-3.69	3	H	NaN	NaN	-
PK	2.48632G	51.19	74.00	-22.81	-4.10	3	H	NaN	NaN	-
AV	2.48632G	21.09	54.00	-32.91	-4.10	3	H	NaN	NaN	-





RE above 1GHz;Band:2.4G;BT-3M;BWch:1MHz;Nss:1;Nant:1;Ch:2402MHz;TX

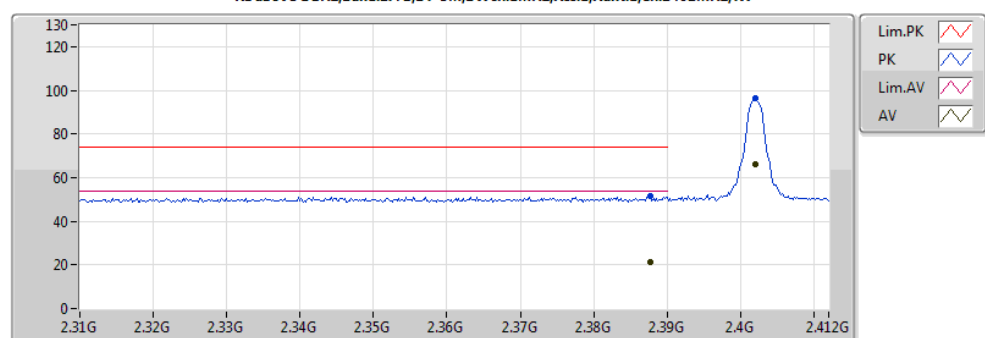


eut:Tablet PC
mode:RTC-700M
memo:120V 60Hz
memo:Power Set :default

memo:EUT=Z axis
memo:

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.387724G	21.45	54.00	-32.55	-4.10	3	H	NaN	NaN	-
AV	2.402004G	66.16	Inf	-Inf	-3.80	3	H	NaN	NaN	-
PK	2.387724G	51.55	74.00	-22.45	-4.10	3	H	NaN	NaN	-
PK	2.402004G	96.26	Inf	-Inf	-3.80	3	H	NaN	NaN	-

RE above 1GHz;Band:2.4G;BT-3M;BWch:1MHz;Nss:1;Nant:1;Ch:2402MHz;TX

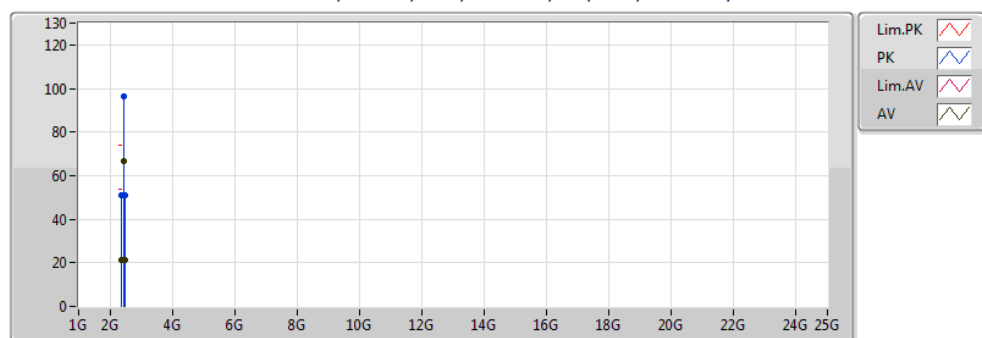


eut:Tablet PC
mode:RTC-700M
memo:120V 60Hz
memo:Power Set :default

memo:EUT=Z axis
memo:

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	2.387724G	51.55	74.00	-22.45	-4.10	3	H	NaN	NaN	-
AV	2.387724G	21.45	54.00	-32.55	-4.10	3	H	NaN	NaN	-
PK	2.402004G	96.26	Inf	-Inf	-3.80	3	H	NaN	NaN	-
AV	2.402004G	66.16	Inf	-Inf	-3.80	3	H	NaN	NaN	-

RE above 1GHz;Band:2.4G;BT-3M;BWch:1MHz;Nss:1;Nant:1;Ch:2441MHz;TX

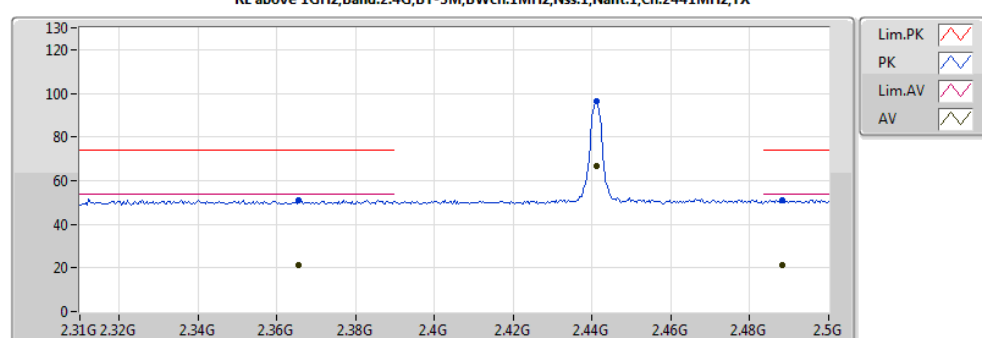


eut:Tablet PC
mode:RTC-700M
memo:120V 60Hz
memo:Power Set :default

memo:EUT=Z axis
memo:

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.36548G	21.16	54.00	-32.84	-4.10	3	H	NaN	NaN	-
AV	2.4411G	66.46	Inf	-Inf	-3.69	3	H	NaN	NaN	-
AV	2.48822G	21.05	54.00	-32.95	-4.10	3	H	NaN	NaN	-
PK	2.36548G	51.26	74.00	-22.74	-4.10	3	H	NaN	NaN	-
PK	2.4411G	96.56	Inf	-Inf	-3.69	3	H	NaN	NaN	-
PK	2.48822G	51.15	74.00	-22.85	-4.10	3	H	NaN	NaN	-

RE above 1GHz;Band:2.4G;BT-3M;BWch:1MHz;Nss:1;Nant:1;Ch:2441MHz;TX



eut:Tablet PC
mode:RTC-700M
memo:120V 60Hz
memo:Power Set :default

memo:EUT=Z axis
memo:

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	2.36548G	51.26	74.00	-22.74	-4.10	3	H	NaN	NaN	-
AV	2.36548G	21.16	54.00	-32.84	-4.10	3	H	NaN	NaN	-
PK	2.4411G	96.56	Inf	-Inf	-3.69	3	H	NaN	NaN	-
AV	2.4411G	66.46	Inf	-Inf	-3.69	3	H	NaN	NaN	-
PK	2.48822G	51.15	74.00	-22.85	-4.10	3	H	NaN	NaN	-
AV	2.48822G	21.05	54.00	-32.95	-4.10	3	H	NaN	NaN	-

