

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 LE
Frequency : 2400 MHz – 2483.5 MHz
FCC Classification : DTS
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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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)	DTS Bandwidth	≥500kHz	Complied
3.3	15.247(b)	Fundamental Emission Output Power	Power [dBm]:30	Complied
3.4	15.247(e)	Power Spectral Density	PSD [dBm/3kHz]:8	Complied
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	Non-Restricted Bands: > 20 dBc	Complied
3.6	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied



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	BT-LE	1	0-39[40]	1	1

<p>Note:</p> <ul style="list-style-type: none"> 2.4G is the 2.4GHz Band (2.4-2.4835GHz). Bluetooth LE (Low Energy) using GFSK modulation for DTS digital modulation. 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	
<input checked="" type="checkbox"/>	Integral antenna (antenna permanently attached)
<input checked="" type="checkbox"/>	Temporary RF connector provided
<input type="checkbox"/>	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.
<input type="checkbox"/>	External antenna (dedicated antennas)
<input type="checkbox"/>	Single power level with corresponding antenna(s).
<input type="checkbox"/>	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	<input checked="" type="checkbox"/> Production ; <input type="checkbox"/> Pre-Production ; <input type="checkbox"/> Prototype
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

1.1.5 Mode Test Duty Cycle

Mode	DC	T(s)
BT-LE	0.152	95u

1.1.6 EUT Operational Condition

Supply Voltage	<input checked="" type="checkbox"/> AC mains	<input checked="" type="checkbox"/> DC	
Type of DC Source	<input checked="" type="checkbox"/> External AC Adapter	<input type="checkbox"/> From Host System	<input checked="" type="checkbox"/> Battery

1.1.7 EUT Operate Information

Items	Description	
Operate Condition	<input checked="" type="checkbox"/> Point-to-multipoint (P2M)	<input type="checkbox"/> 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
- ♦ KDB 558074 D01 v03r05



1.3 Testing Location Information

Testing Location				
<input checked="" type="checkbox"/>	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-LE	1	1	1	2402	L	Default
2.4G	BT-LE	1	1	1	2440	M	Default
2.4G	BT-LE	1	1	1	2480	H	Default
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


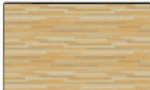

Note:

- ♦ 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	DTS Bandwidth, Fundamental Emission Output Power, Power Spectral Density, 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	<input type="checkbox"/> EUT will be placed in fixed position.		
	<input type="checkbox"/> EUT will be placed in mobile position and operating multiple positions.		
	<input checked="" type="checkbox"/> EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.		
Operating Mode < 1GHz	<input checked="" type="checkbox"/> 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

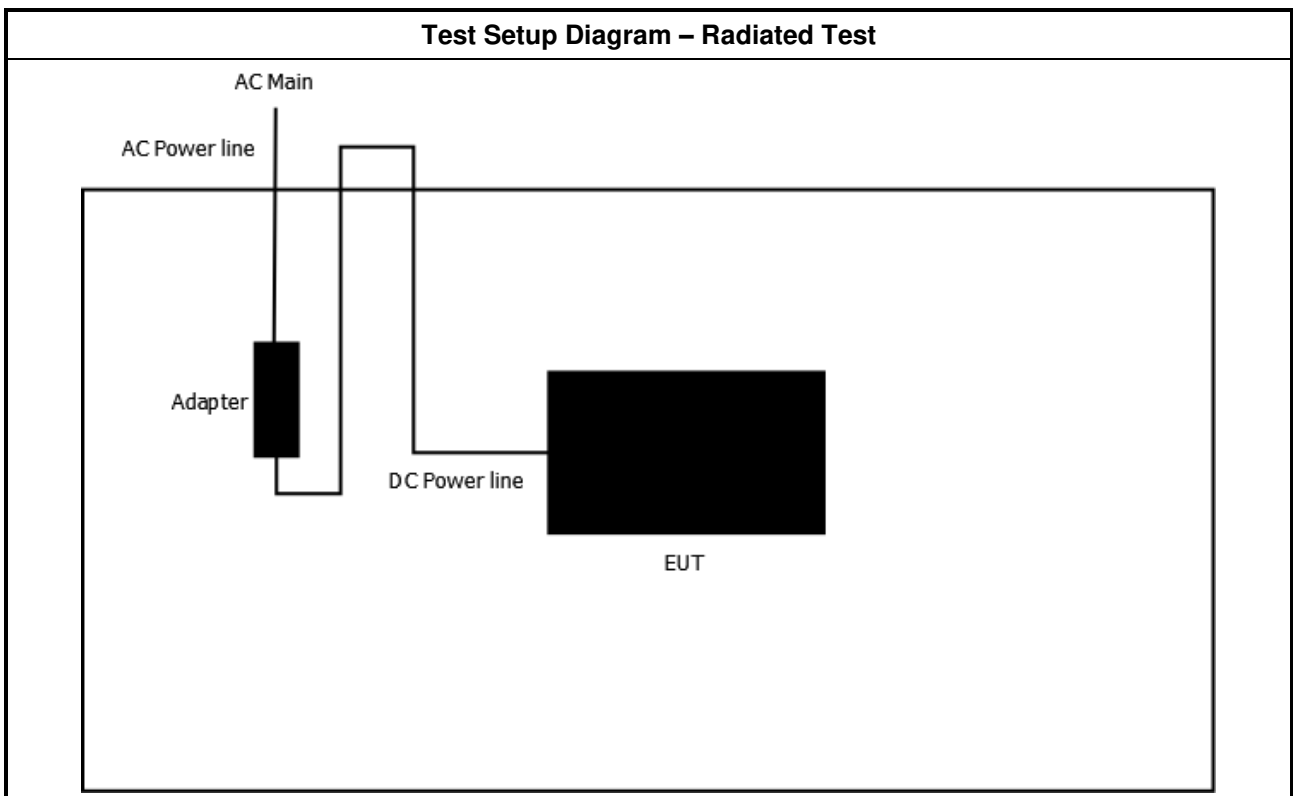
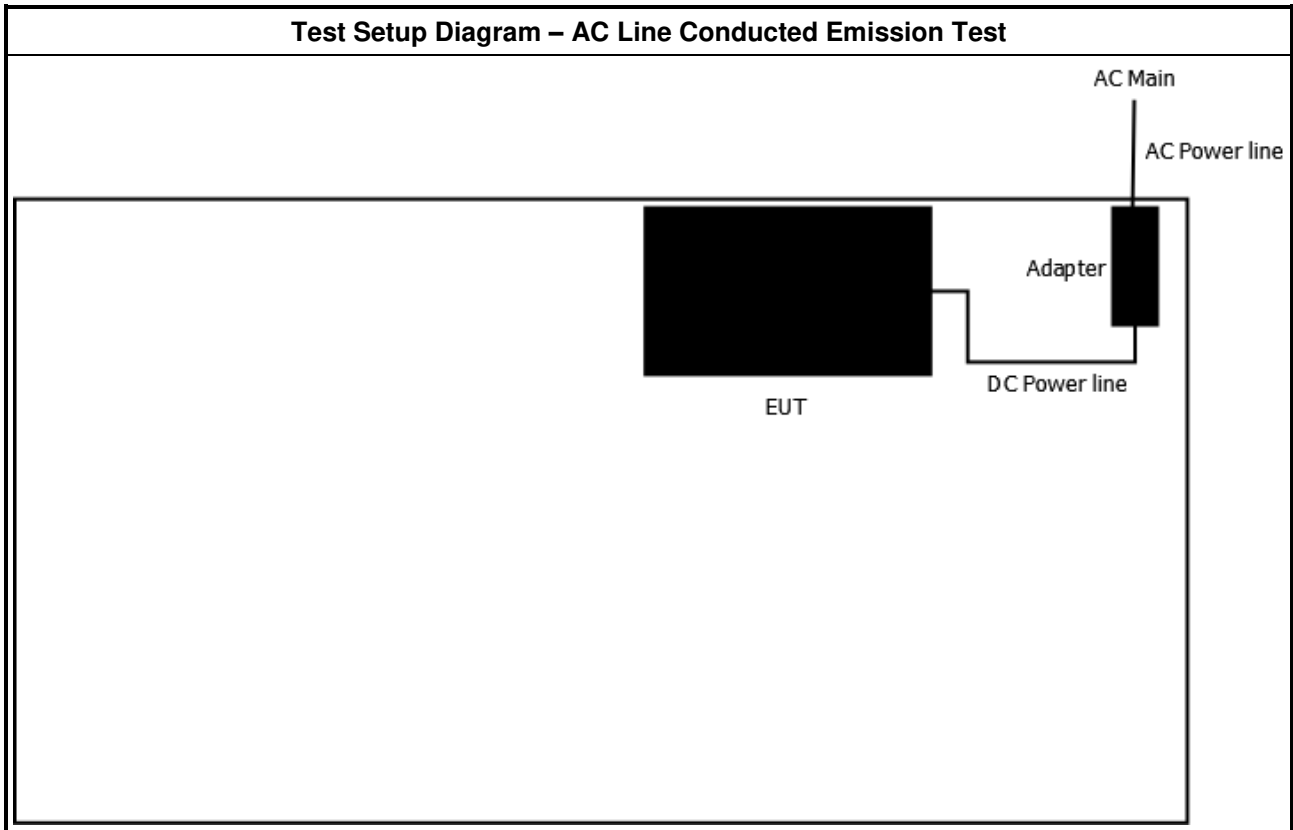
Reminder: Regarding to more detail and other information, please refer to user manual.

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



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.

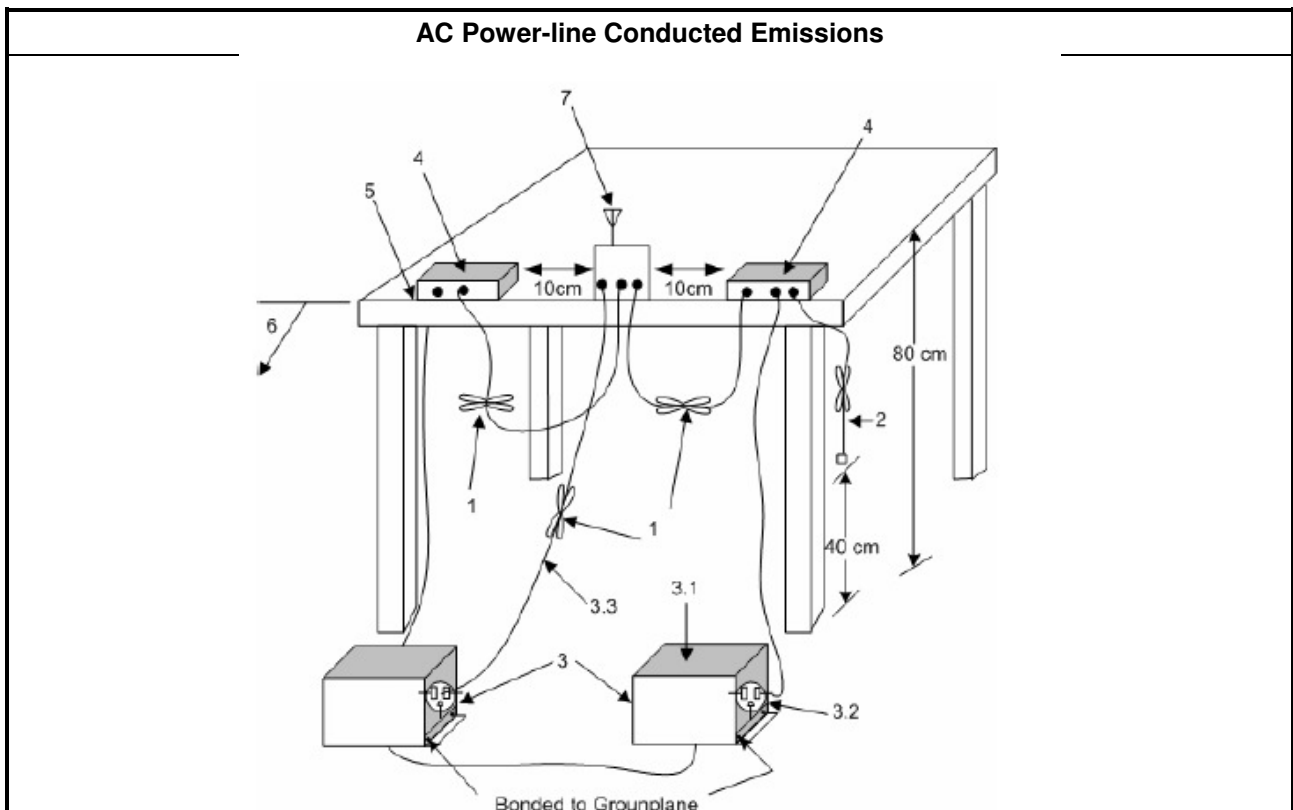
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<ul style="list-style-type: none"> 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 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth \geq 500 kHz.

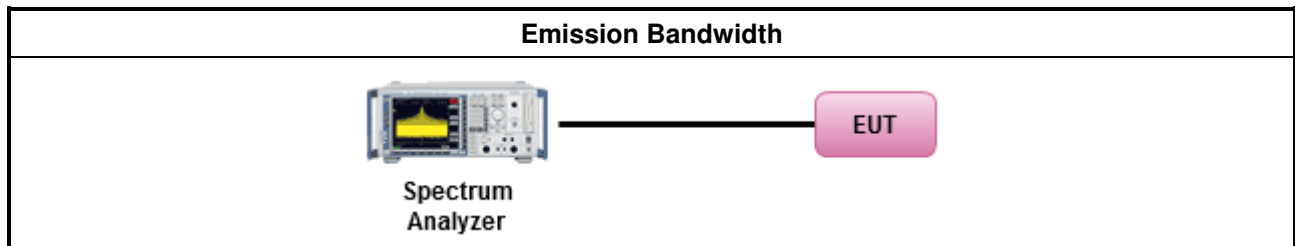
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.3 Fundamental Emission Output Power

3.3.1 Fundamental Emission Output Power Limit

Maximum Peak Conducted Output Power or Maximum Conducted Output Power Limit	
<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dBm
e.i.r.p. Power Limit:	
<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band 	
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS)
	<ul style="list-style-type: none"> - Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi. P_{eirp} = e.i.r.p. Power in dBm.</p>	

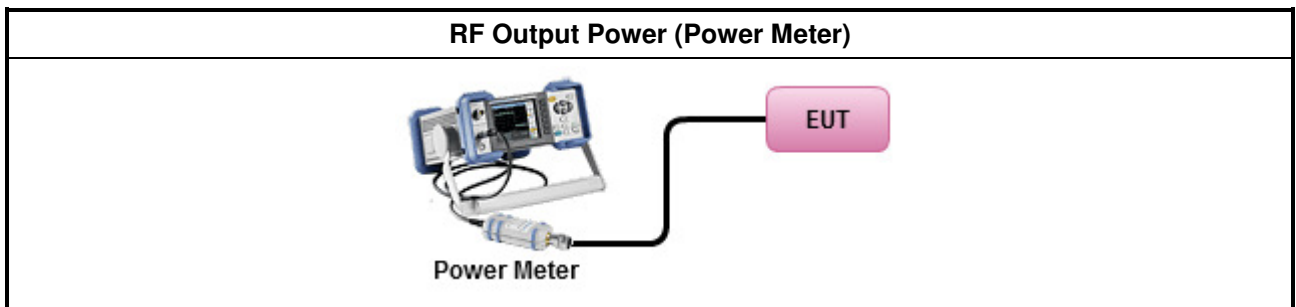
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)
<ul style="list-style-type: none"> Maximum Average Conducted Output Power 	
Duty cycle ≥ 98%	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.2.2.4 Method AVGSA-2. (spectral trace averaging)
Duty cycle < 98%	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
RF power meter and average over on/off periods with duty factor or gated trigger	
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 9.2.3 Method AVGPM (using an RF average power meter).
<ul style="list-style-type: none"> For conducted measurement. 	
<ul style="list-style-type: none"> If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. 	
<ul style="list-style-type: none"> If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Peak Conducted Output Power

Refer as Appendix B.1

3.3.6 Test Result of Maximum Average Conducted Output Power

Refer as Appendix B.2

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> ▪ Power Spectral Density (PSD) \leq 8 dBm/3kHz

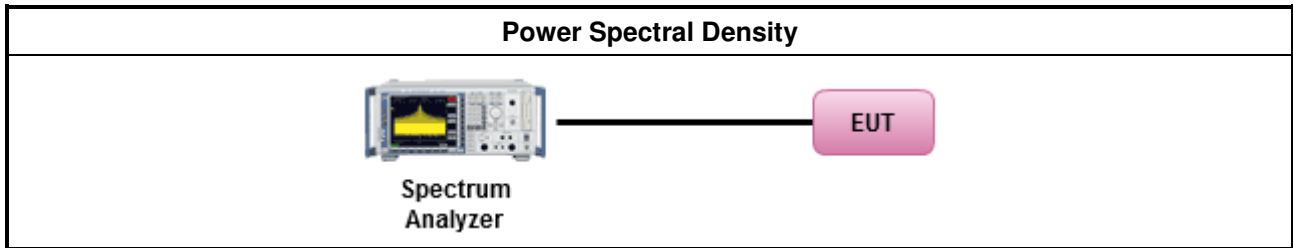
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option). 	
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).
Duty cycle \geq 98%	
<input type="checkbox"/>	Refer as KDB 558074, clause 10.5 Method AVGPSD-2 (spectral trace averaging).
Duty cycle $<$ 98%	
<input type="checkbox"/>	Refer as KDB 558074, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed)
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If The EUT supports multiple transmit chains using options given below: 	
<input type="checkbox"/>	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the N _{TX} output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
<input type="checkbox"/>	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
<input type="checkbox"/>	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix C

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 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.

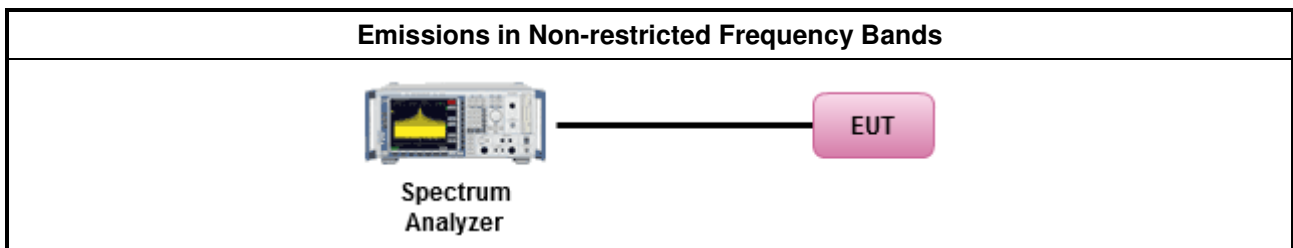
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.6 Emissions in Restricted Frequency Bands

3.6.1 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.

3.6.2 Measuring Instruments

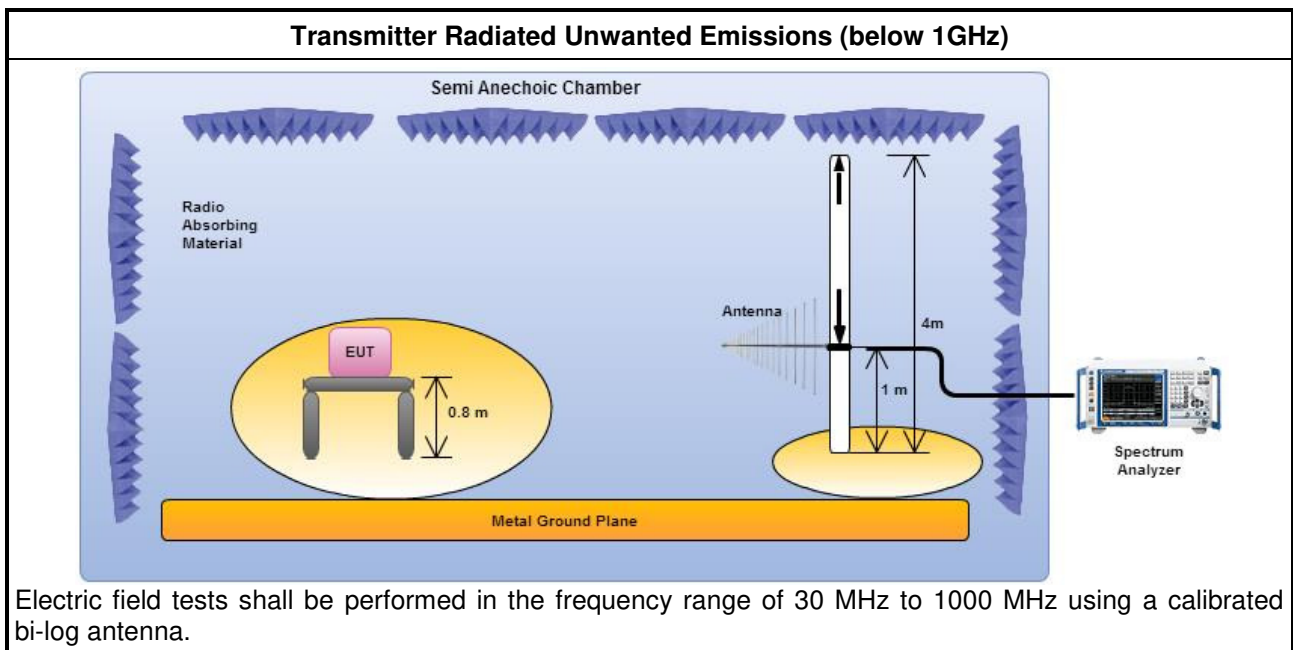
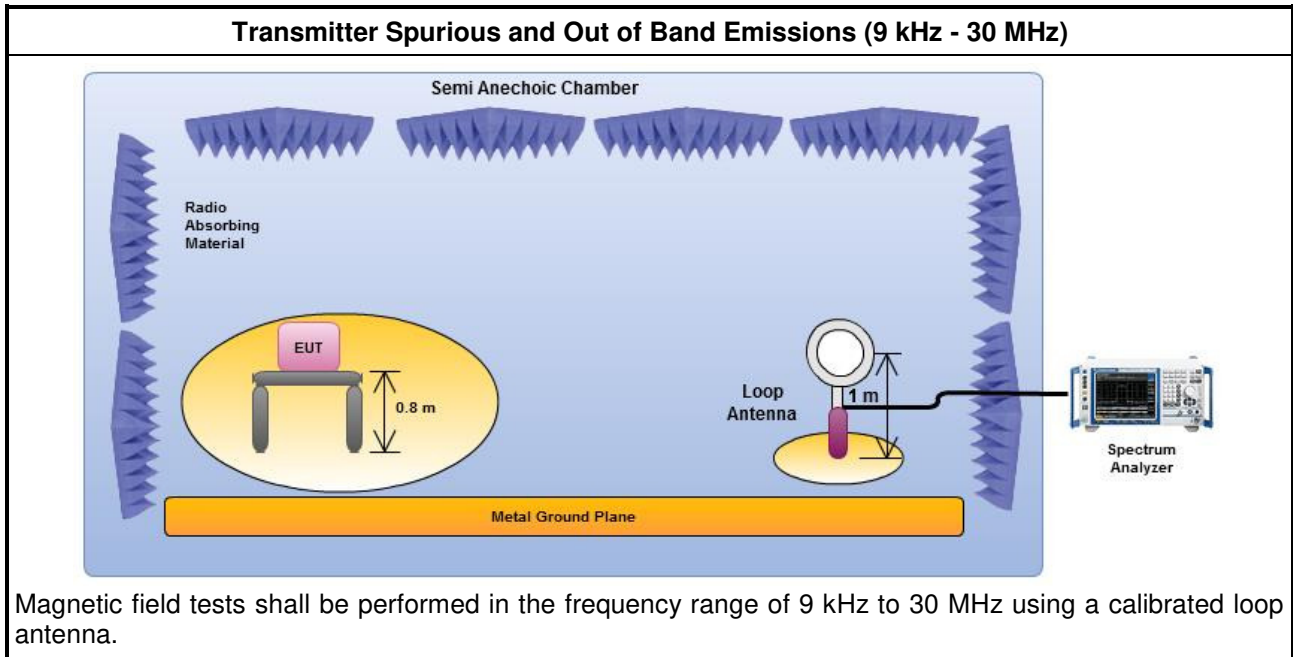
Refer a test equipment and calibration data table in this test report.



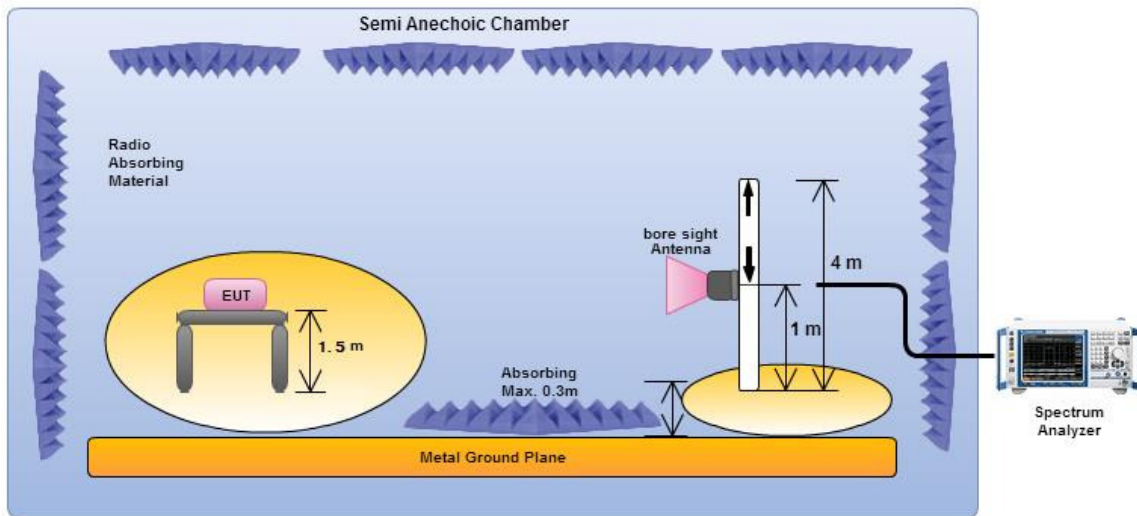
3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 12 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle \geq 98%)
	<input type="checkbox"/> Refer as KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW \geq 1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.
	<input type="checkbox"/> Refer as KDB 558074, clause 12.2.3 measurement procedure Quasi-Peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074 clause 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
<ul style="list-style-type: none"> ▪ For conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2. 	
	<ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	<ul style="list-style-type: none"> ▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup



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.

3.6.5 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.

3.6.6 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

NCR : Non-Calibration Require

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
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/07/2016	20/07/2017
RF Cable-0.2m	HUBER+SUHN ER	SUCOFLEX_10 4	MY10709/4	30MHz ~ 26.5GHz	02/10/2016	01/10/2017
RF Cable-0.2m	HUBER+SUHN ER	SUCOFLEX_10 4	MY10712/4	30MHz ~ 26.5GHz	02/10/2016	01/10/2017
RF Cable-1.5m	HUBER+SUHN ER	SUCOFLEX_10 4	MY12583/4	30MHz ~ 26.5GHz	02/10/2016	01/10/2017

**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
Amplifier	MITEQ	JS44-18004000 -33-8P	1840917	18GHz ~ 40GHz	02/06/2015	01/06/2017
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	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

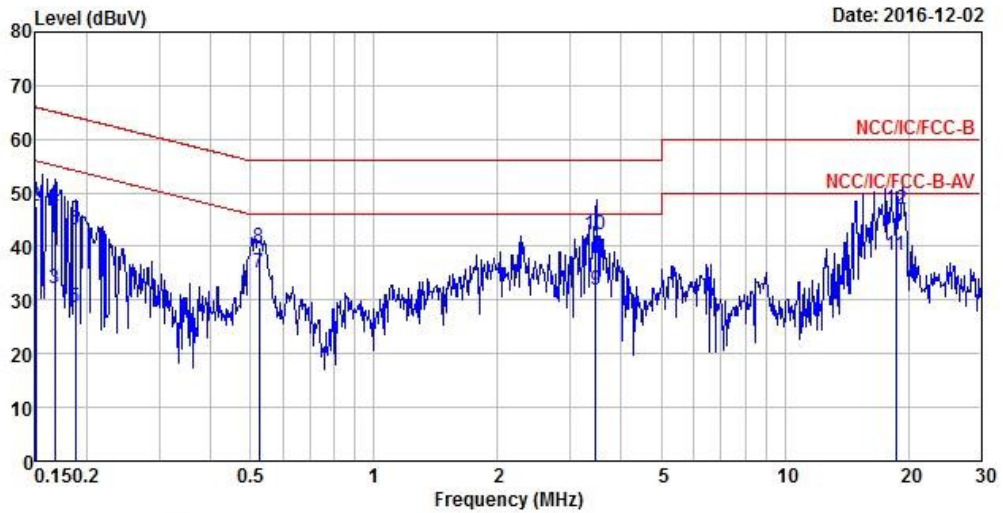


AC Power-line Conducted Emissions Result																																																																																																																																										
Operating Mode	1	Power Phase	Neutral																																																																																																																																							
Operating Function	Adapter Mode																																																																																																																																									
<div style="display: flex; justify-content: space-between;"> <div> </div> <div style="text-align: right;">Date: 2016-12-02</div> </div>																																																																																																																																										
<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Over</th> <th>Limit</th> <th>Read</th> <th>LISN</th> <th>Cable</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV</th> <th>Limit</th> <th>Line</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th></th> </tr> <tr> <th></th> <th></th> <th></th> <th>dB</th> <th>dBuV</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.15</td> <td>34.96</td> <td>-21.00</td> <td>55.96</td> <td>34.63</td> <td>0.11</td> <td>0.22</td> <td>Average</td> </tr> <tr> <td>2</td> <td>0.15</td> <td>48.46</td> <td>-17.50</td> <td>65.96</td> <td>48.13</td> <td>0.11</td> <td>0.22</td> <td>QP</td> </tr> <tr> <td>3</td> <td>0.17</td> <td>32.94</td> <td>-21.87</td> <td>54.81</td> <td>32.57</td> <td>0.11</td> <td>0.26</td> <td>Average</td> </tr> <tr> <td>4</td> <td>0.17</td> <td>46.91</td> <td>-17.90</td> <td>64.81</td> <td>46.54</td> <td>0.11</td> <td>0.26</td> <td>QP</td> </tr> <tr> <td>5</td> <td>0.19</td> <td>29.67</td> <td>-24.17</td> <td>53.84</td> <td>29.27</td> <td>0.11</td> <td>0.29</td> <td>Average</td> </tr> <tr> <td>6</td> <td>0.19</td> <td>42.16</td> <td>-21.68</td> <td>63.84</td> <td>41.76</td> <td>0.11</td> <td>0.29</td> <td>QP</td> </tr> <tr style="border: 2px solid blue;"> <td>7 MAX</td> <td>0.53</td> <td>36.13</td> <td>-9.87</td> <td>46.00</td> <td>35.91</td> <td>0.12</td> <td>0.10</td> <td>Average</td> </tr> <tr> <td>8</td> <td>0.53</td> <td>40.74</td> <td>-15.26</td> <td>56.00</td> <td>40.52</td> <td>0.12</td> <td>0.10</td> <td>QP</td> </tr> <tr> <td>9</td> <td>3.47</td> <td>32.86</td> <td>-13.14</td> <td>46.00</td> <td>32.55</td> <td>0.17</td> <td>0.14</td> <td>Average</td> </tr> <tr> <td>10</td> <td>3.47</td> <td>44.21</td> <td>-11.79</td> <td>56.00</td> <td>43.90</td> <td>0.17</td> <td>0.14</td> <td>QP</td> </tr> <tr> <td>11</td> <td>18.85</td> <td>37.75</td> <td>-12.25</td> <td>50.00</td> <td>37.21</td> <td>0.34</td> <td>0.20</td> <td>Average</td> </tr> <tr> <td>12</td> <td>18.85</td> <td>46.56</td> <td>-13.44</td> <td>60.00</td> <td>46.02</td> <td>0.34</td> <td>0.20</td> <td>QP</td> </tr> </tbody> </table>					Freq	Level	Over	Limit	Read	LISN	Cable	Remark		MHz	dBuV	Limit	Line	Level	Factor	Loss					dB	dBuV	dBuV	dB	dB		1	0.15	34.96	-21.00	55.96	34.63	0.11	0.22	Average	2	0.15	48.46	-17.50	65.96	48.13	0.11	0.22	QP	3	0.17	32.94	-21.87	54.81	32.57	0.11	0.26	Average	4	0.17	46.91	-17.90	64.81	46.54	0.11	0.26	QP	5	0.19	29.67	-24.17	53.84	29.27	0.11	0.29	Average	6	0.19	42.16	-21.68	63.84	41.76	0.11	0.29	QP	7 MAX	0.53	36.13	-9.87	46.00	35.91	0.12	0.10	Average	8	0.53	40.74	-15.26	56.00	40.52	0.12	0.10	QP	9	3.47	32.86	-13.14	46.00	32.55	0.17	0.14	Average	10	3.47	44.21	-11.79	56.00	43.90	0.17	0.14	QP	11	18.85	37.75	-12.25	50.00	37.21	0.34	0.20	Average	12	18.85	46.56	-13.44	60.00	46.02	0.34	0.20	QP
	Freq	Level	Over	Limit	Read	LISN	Cable	Remark																																																																																																																																		
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<p>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.)</p>																																																																																																																																										



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	0.15	33.99	-22.01	56.00	33.67	0.10	0.22	Average
2	0.15	47.62	-18.38	66.00	47.30	0.10	0.22	QP
3	0.17	32.32	-22.80	55.12	31.97	0.10	0.25	Average
4	0.17	47.03	-18.09	65.12	46.68	0.10	0.25	QP
5	0.19	28.67	-25.48	54.15	28.28	0.11	0.28	Average
6	0.19	43.22	-20.93	64.15	42.83	0.11	0.28	QP
7 MAX	0.53	35.27	-10.73	46.00	35.05	0.12	0.10	Average
8	0.53	39.89	-16.11	56.00	39.67	0.12	0.10	QP
9	3.47	32.03	-13.97	46.00	31.72	0.17	0.14	Average
10	3.47	42.09	-13.91	56.00	41.78	0.17	0.14	QP
11	18.60	38.25	-11.75	50.00	37.68	0.37	0.20	Average
12	18.60	46.99	-13.01	60.00	46.42	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.)

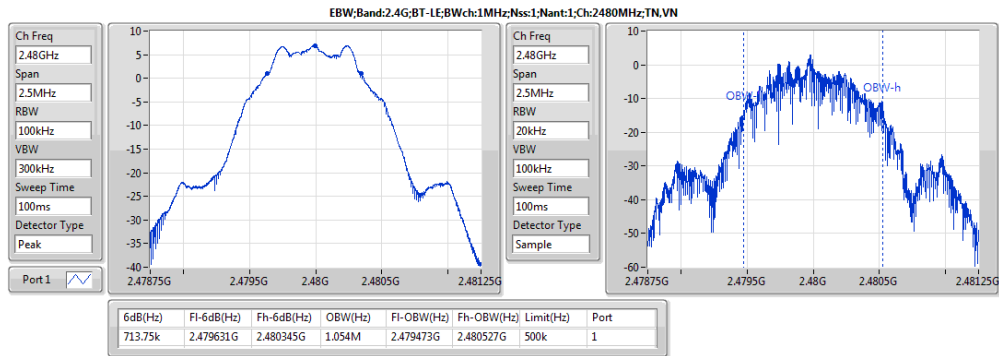
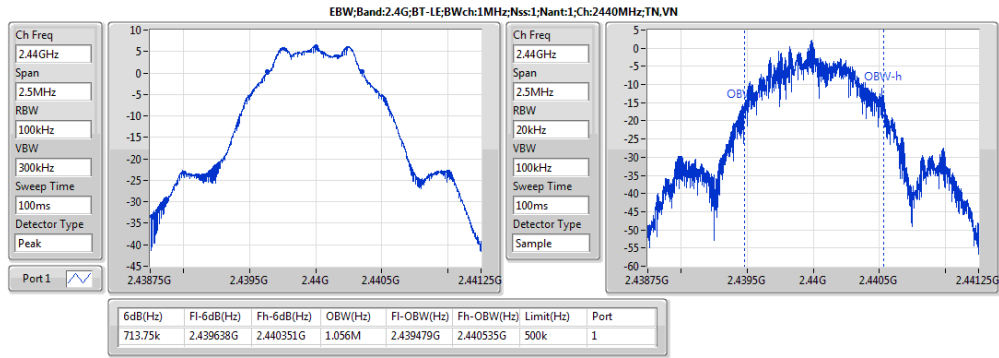
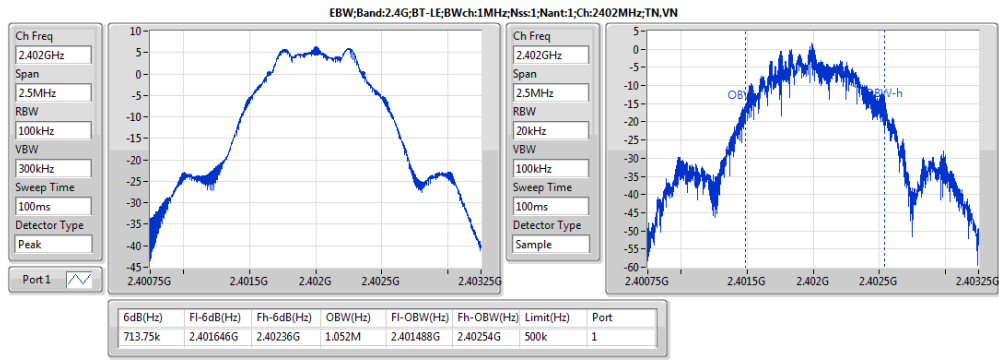


Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4G;BT-LE;1;1;1	713.75k	1.056M	1M06F1D	713.75k	1.052M

Result

Mode	Result	Limit (Hz)	P1-N dB (Hz)	P1-OBW (Hz)
2.4G;BT-LE;1;1;1;2402;L;TN,VN	Pass	500k	713.75k	1.052M
2.4G;BT-LE;1;1;1;2440;M;TN,VN	Pass	500k	713.75k	1.056M
2.4G;BT-LE;1;1;1;2480;H;TN,VN	Pass	500k	713.75k	1.054M





Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G:BT-LE;1;1;1	5.58	0.00361	7.92	0.00619



Result

Mode	Result	DG (dBi)	Sum (dBm)	Sum Lim. (dBm)	EIRP (dBm)	EIRP Lim. (dBm)	P1 (dBm)
2.4G;BT-LE;1;1;1;2402;L;TN,VN	Pass	2.34	3.97	30.00	6.31	36.00	3.97
2.4G;BT-LE;1;1;1;2440;M;TN,VN	Pass	2.34	5.01	30.00	7.35	36.00	5.01
2.4G;BT-LE;1;1;1;2480;H;TN,VN	Pass	2.34	5.58	30.00	7.92	36.00	5.58



Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G:BT-LE;1;1;1	4.83	0.00304	7.17	0.00521

Result

Mode	Result	DG (dBi)	Sum (dBm)	Sum Lim. (dBm)	EIRP (dBm)	EIRP Lim. (dBm)	P1 (dBm)
2.4G;BT-LE;1;1;1;2402;L;TN,VN	Pass	2.34	3.29	30.00	5.63	36.00	3.29
2.4G;BT-LE;1;1;1;2440;M;TN,VN	Pass	2.34	4.32	30.00	6.66	36.00	4.32
2.4G;BT-LE;1;1;1;2480;H;TN,VN	Pass	2.34	4.83	30.00	7.17	36.00	4.83



Summary

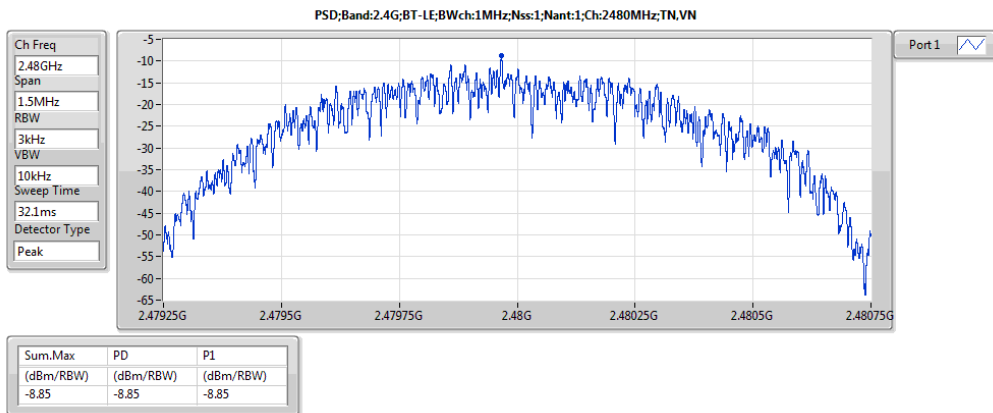
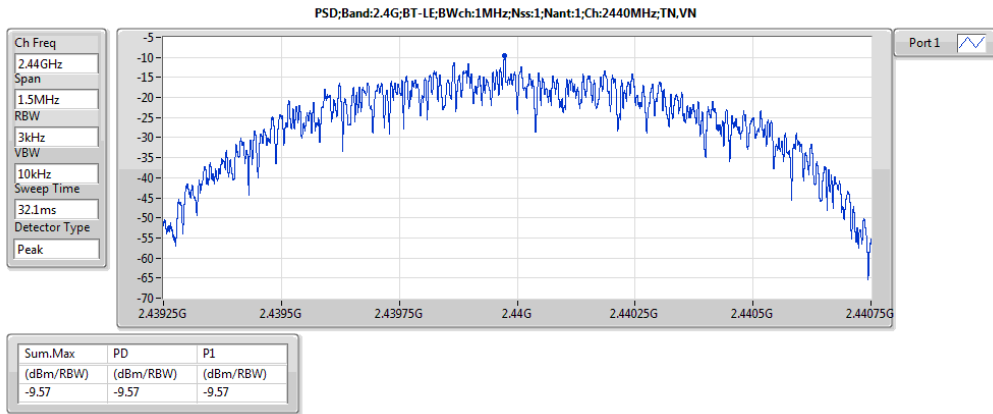
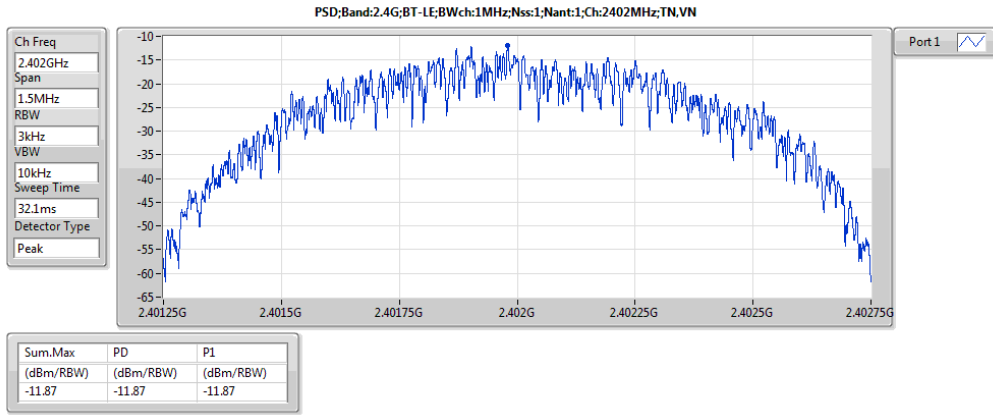
Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
2.4G:BT-LE;1;1;1	-8.85	-6.51

Result

Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	EIRP.PD (dBm/RBW)	EIRP.PD.Li m (dBm/RBW)	P1 (dBm/RBW)
2.4G;BT-LE;1;1;1;2402;L;TN,VN	Pass	3k	3k	0.00	2.34	-11.87	8.00	-9.53	Inf	-11.87
2.4G;BT-LE;1;1;1;2440;M;TN,VN	Pass	3k	3k	0.00	2.34	-9.57	8.00	-7.23	Inf	-9.57
2.4G;BT-LE;1;1;1;2480;H;TN,VN	Pass	3k	3k	0.00	2.34	-8.85	8.00	-6.51	Inf	-8.85



PSD-DTS Result





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-LE;1;1;1;2402;L;TN,VN	Pass	2.40167G	1.46	-18.54	877.744M	-60.50	2.399868G	-56.50	2.483824G	-59.07	3.200335G	-51.89	1

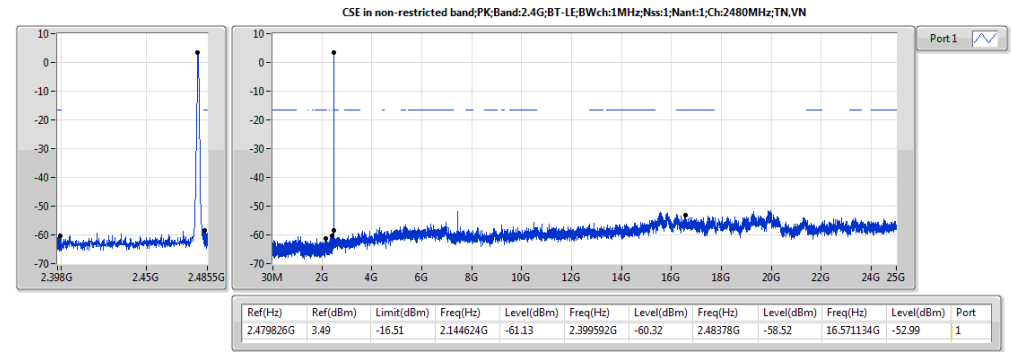
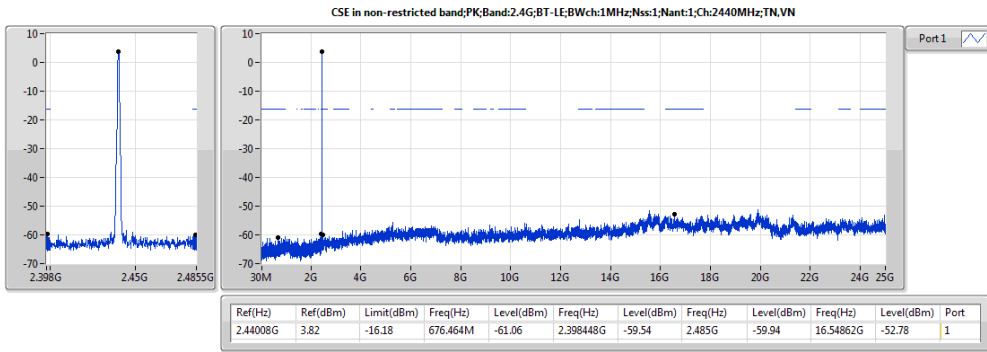
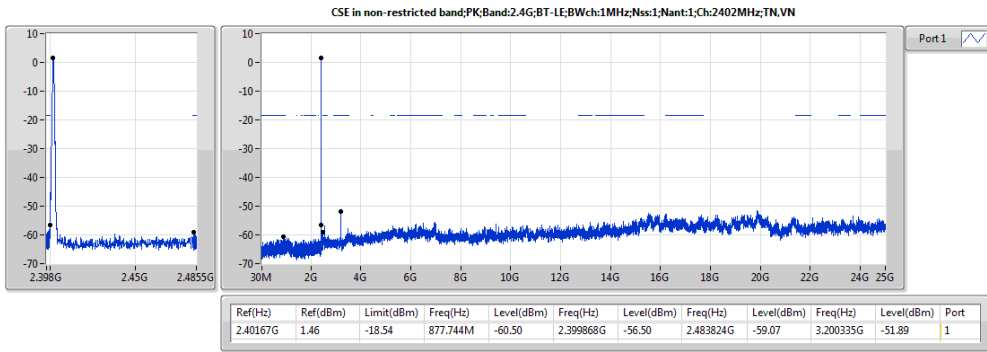


Result

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-LE;1;1;1;2402;L;TN,VN	Pass	2.40167G	1.46	-18.54	877.744M	-60.50	2.399868G	-56.50	2.483824G	-59.07	3.200335G	-51.89	1
2.4G;BT-LE;1;1;1;2440;M;TN,VN	Pass	2.44008G	3.82	-16.18	676.464M	-61.06	2.398448G	-59.54	2.485G	-59.94	16.54862G	-52.78	1
2.4G;BT-LE;1;1;1;2480;H;TN,VN	Pass	2.479826G	3.49	-16.51	2.144624G	-61.13	2.399592G	-60.32	2.48378G	-58.52	16.571134G	-52.99	1



CSEndB-DTS 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-LE;1;1;1;2440;M; AC Adapter	Pass	PK	30M	36.89	40.00	-3.11	-4.75	3	V	NaN	NaN	-

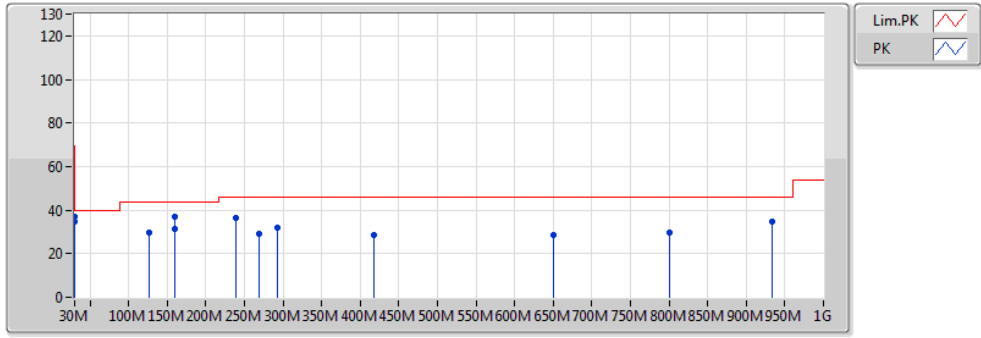


Result

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-LE;1;1;1;2440;M; AC Adapter	Pass	PK	30M	34.70	40.00	-5.30	-4.75	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	159.98M	37.19	43.50	-6.31	-10.05	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	239.52M	36.41	46.00	-9.59	-8.06	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	291.9M	32.02	46.00	-13.98	-6.04	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	418M	28.64	46.00	-17.36	-2.36	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	934.04M	34.86	46.00	-11.14	3.34	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	30M	36.89	40.00	-3.11	-4.75	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	127M	29.46	43.50	-14.04	-8.47	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	159.98M	31.64	43.50	-11.86	-10.05	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	268.62M	29.06	46.00	-16.94	-6.22	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	650.8M	28.72	46.00	-17.28	0.29	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	800.18M	29.94	46.00	-16.06	1.60	3	V	NaN	NaN	-



RE TX below 1GHz;Band:2.4G;BT-LE;BWch:1MHz;Nss:1;Nant:1;Ch:2440MHz; AC Adapter



110V 60HZ
EUT= X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(*)	Height(m)	Comments
PK	30M	34.70	40.00	-5.30	-4.75	3	H	NaN	NaN	-
PK	159.98M	37.19	43.50	-6.31	-10.05	3	H	NaN	NaN	-
PK	239.52M	36.41	46.00	-9.59	-8.06	3	H	NaN	NaN	-
PK	291.9M	32.02	46.00	-13.98	-6.04	3	H	NaN	NaN	-
PK	418M	28.64	46.00	-17.36	-2.36	3	H	NaN	NaN	-
PK	934.04M	34.86	46.00	-11.14	3.34	3	H	NaN	NaN	-
PK	30M	36.89	40.00	-3.11	-4.75	3	V	NaN	NaN	-
PK	127M	29.46	43.50	-14.04	-8.47	3	V	NaN	NaN	-
PK	159.98M	31.64	43.50	-11.86	-10.05	3	V	NaN	NaN	-
PK	268.62M	29.06	46.00	-16.94	-6.22	3	V	NaN	NaN	-
PK	650.8M	28.72	46.00	-17.28	0.29	3	V	NaN	NaN	-
PK	800.18M	29.94	46.00	-16.06	1.60	3	V	NaN	NaN	-



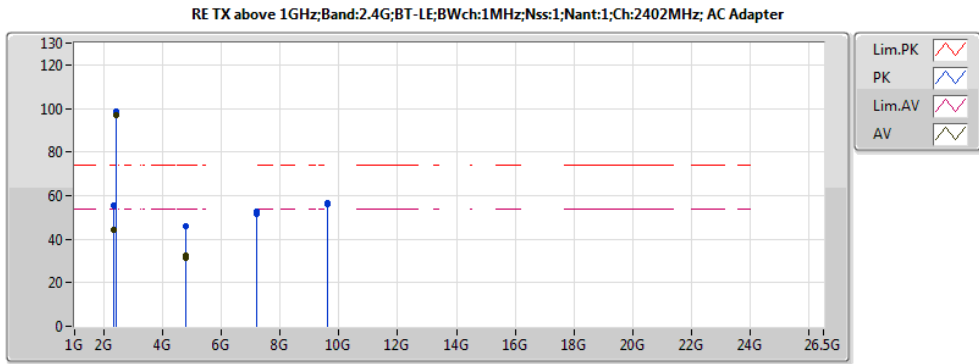
Summary

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-LE;1;1;1;2480;H; AC Adapter	Pass	AV	2.48352G	46.83	54.00	-7.17	31.27	3	H	NaN	NaN	-



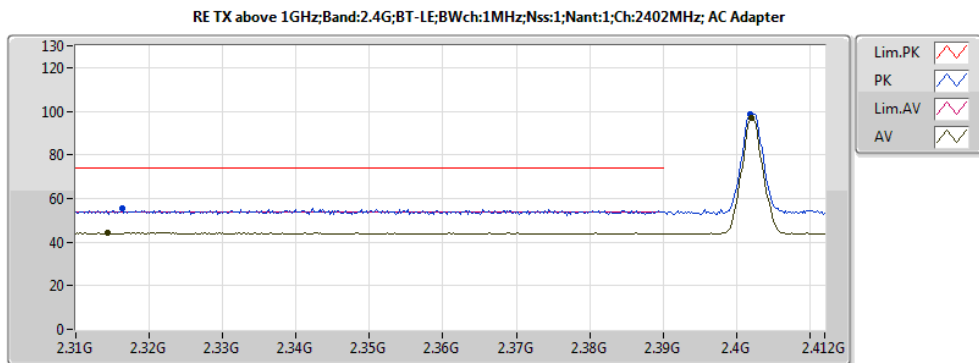
Result

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-LE;1;1;1;2402;L; AC Adapter	Pass	AV	2.314284G	44.28	54.00	-9.72	30.76	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2402;L; AC Adapter	Pass	AV	2.402004G	97.21	Inf	-Inf	31.03	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2402;L; AC Adapter	Pass	PK	2.316324G	55.41	74.00	-18.59	30.77	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2402;L; AC Adapter	Pass	PK	2.4018G	98.67	Inf	-Inf	31.03	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2402;L; AC Adapter	Pass	AV	4.804G	32.30	54.00	-21.70	6.37	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2402;L; AC Adapter	Pass	PK	4.804G	46.03	74.00	-27.97	6.37	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2402;L; AC Adapter	Pass	PK	7.206G	52.42	Inf	-Inf	11.68	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2402;L; AC Adapter	Pass	PK	9.608G	56.08	Inf	-Inf	15.92	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2402;L; AC Adapter	Pass	AV	4.804G	31.59	54.00	-22.41	6.37	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2402;L; AC Adapter	Pass	PK	4.804G	45.85	74.00	-28.15	6.37	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2402;L; AC Adapter	Pass	PK	7.206G	51.71	Inf	-Inf	11.68	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2402;L; AC Adapter	Pass	PK	9.608G	56.76	Inf	-Inf	15.92	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	AV	2.32064G	44.27	54.00	-9.73	30.78	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	AV	2.44034G	98.34	Inf	-Inf	31.14	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	AV	2.4905G	44.18	54.00	-9.82	31.29	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	2.3233G	55.74	74.00	-18.26	30.79	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	2.44034G	99.81	Inf	-Inf	31.14	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	2.48746G	55.47	74.00	-18.53	31.28	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	AV	4.88G	32.76	54.00	-21.24	6.64	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	4.88G	46.41	74.00	-27.59	6.64	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	AV	7.32G	37.98	54.00	-16.02	11.85	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	7.32G	53.03	74.00	-20.97	11.85	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	9.76G	56.60	Inf	-Inf	15.83	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	AV	4.88G	31.75	54.00	-22.25	6.64	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	4.88G	45.91	74.00	-28.09	6.64	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	AV	7.32G	37.86	54.00	-16.14	11.85	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	7.32G	52.62	74.00	-21.38	11.85	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2440;M; AC Adapter	Pass	PK	9.76G	56.17	Inf	-Inf	15.83	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	AV	2.48G	100.02	Inf	-Inf	31.26	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	AV	2.48352G	46.83	54.00	-7.17	31.27	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	PK	2.47968G	101.48	Inf	-Inf	31.26	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	PK	2.48368G	56.84	74.00	-17.16	31.27	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	AV	4.96G	35.52	54.00	-18.48	6.93	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	PK	4.96G	48.00	74.00	-26.00	6.93	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	AV	7.44G	38.19	54.00	-15.81	12.07	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	PK	7.44G	52.58	74.00	-21.42	12.07	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	PK	9.92G	56.90	Inf	-Inf	15.85	3	H	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	AV	4.96G	32.88	54.00	-21.12	6.93	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	PK	4.96G	46.73	74.00	-27.27	6.93	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	AV	7.44G	38.02	54.00	-15.98	12.07	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	PK	7.44G	52.85	74.00	-21.15	12.07	3	V	NaN	NaN	-
2.4G;BT-LE;1;1;1;2480;H; AC Adapter	Pass	PK	9.92G	57.32	Inf	-Inf	15.85	3	V	NaN	NaN	-



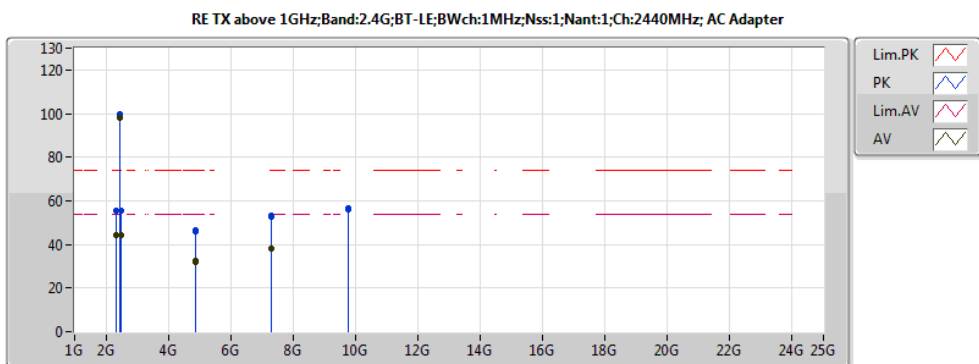
110V 60Hz
EUT= X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(*)	Height(m)	Comments
AV	2.314284G	44.28	54.00	-9.72	30.76	3	H	NaN	NaN	-
AV	2.402004G	97.21	Inf	-Inf	31.03	3	H	NaN	NaN	-
PK	2.316324G	55.41	74.00	-18.59	30.77	3	H	NaN	NaN	-
PK	2.4018G	98.67	Inf	-Inf	31.03	3	H	NaN	NaN	-
AV	4.804G	32.30	54.00	-21.70	6.37	3	H	NaN	NaN	-
PK	4.804G	46.03	74.00	-27.97	6.37	3	H	NaN	NaN	-
PK	7.206G	52.42	Inf	-Inf	11.68	3	H	NaN	NaN	-
PK	9.608G	56.08	Inf	-Inf	15.92	3	H	NaN	NaN	-
AV	4.804G	31.59	54.00	-22.41	6.37	3	V	NaN	NaN	-
PK	4.804G	45.85	74.00	-28.15	6.37	3	V	NaN	NaN	-
PK	7.206G	51.71	Inf	-Inf	11.68	3	V	NaN	NaN	-
PK	9.608G	56.76	Inf	-Inf	15.92	3	V	NaN	NaN	-



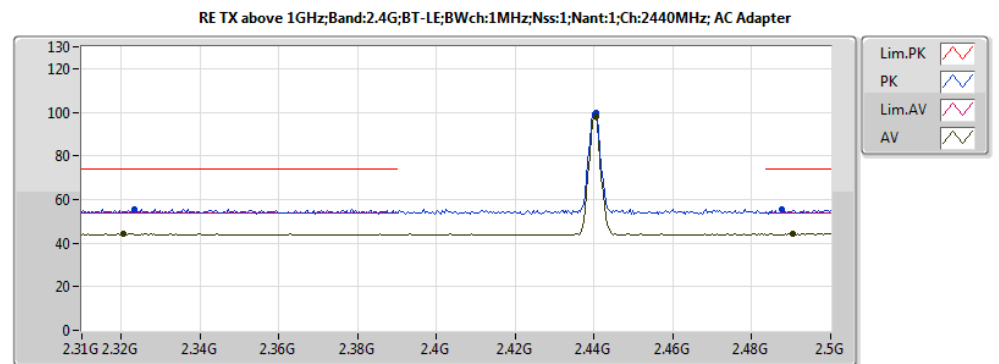
110V 60Hz
EUT= X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(*)	Height(m)	Comments
AV	2.314284G	44.28	54.00	-9.72	30.76	3	H	NaN	NaN	-
AV	2.402004G	97.21	Inf	-Inf	31.03	3	H	NaN	NaN	-
PK	2.316324G	55.41	74.00	-18.59	30.77	3	H	NaN	NaN	-
PK	2.4018G	98.67	Inf	-Inf	31.03	3	H	NaN	NaN	-



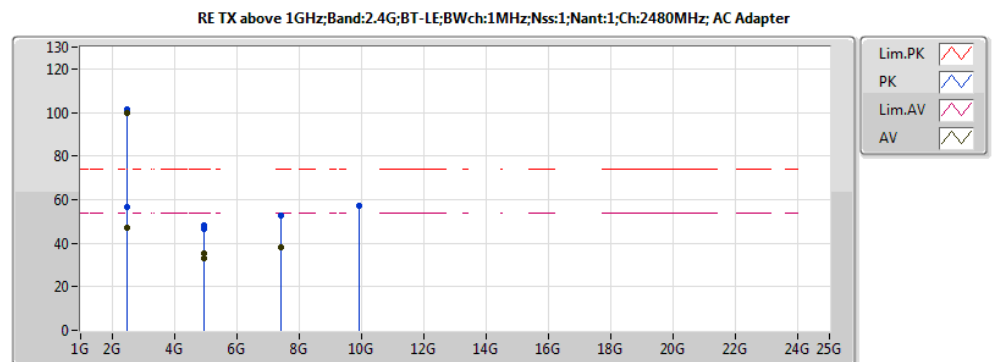
110V 60Hz
EUT= X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(*)	Height(m)	Comments
AV	2.32064G	44.27	54.00	-9.73	30.78	3	H	NaN	NaN	-
AV	2.44034G	98.34	Inf	-Inf	31.14	3	H	NaN	NaN	-
AV	2.4905G	44.18	54.00	-9.82	31.29	3	H	NaN	NaN	-
PK	2.3233G	55.74	74.00	-18.26	30.79	3	H	NaN	NaN	-
PK	2.44034G	99.81	Inf	-Inf	31.14	3	H	NaN	NaN	-
PK	2.48746G	55.47	74.00	-18.53	31.28	3	H	NaN	NaN	-
AV	4.88G	32.76	54.00	-21.24	6.64	3	H	NaN	NaN	-
PK	4.88G	46.41	74.00	-27.59	6.64	3	H	NaN	NaN	-
AV	7.32G	37.98	54.00	-16.02	11.85	3	H	NaN	NaN	-
PK	7.32G	53.03	74.00	-20.97	11.85	3	H	NaN	NaN	-
PK	9.76G	56.60	Inf	-Inf	15.83	3	H	NaN	NaN	-
AV	4.88G	31.75	54.00	-22.25	6.64	3	V	NaN	NaN	-
PK	4.88G	45.91	74.00	-28.09	6.64	3	V	NaN	NaN	-
AV	7.32G	37.86	54.00	-16.14	11.85	3	V	NaN	NaN	-
PK	7.32G	52.62	74.00	-21.38	11.85	3	V	NaN	NaN	-
PK	9.76G	56.17	Inf	-Inf	15.83	3	V	NaN	NaN	-



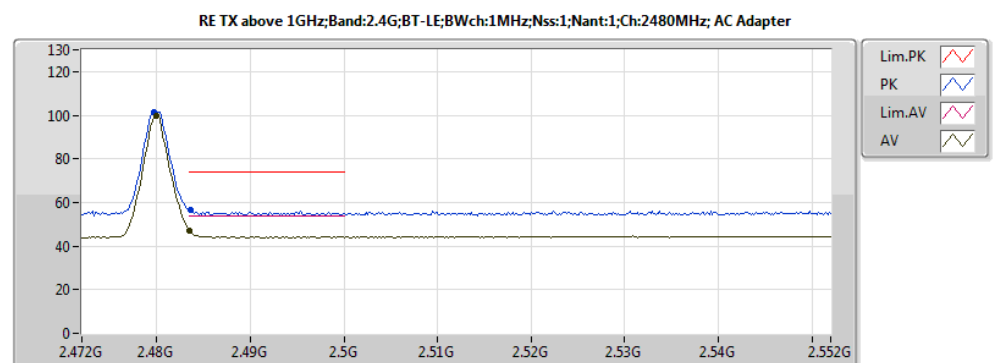
110V 60Hz
EUT= X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(*)	Height(m)	Comments
AV	2.32064G	44.27	54.00	-9.73	30.78	3	H	NaN	NaN	-
AV	2.44034G	98.34	Inf	-Inf	31.14	3	H	NaN	NaN	-
AV	2.4905G	44.18	54.00	-9.82	31.29	3	H	NaN	NaN	-
PK	2.3233G	55.74	74.00	-18.26	30.79	3	H	NaN	NaN	-
PK	2.44034G	99.81	Inf	-Inf	31.14	3	H	NaN	NaN	-
PK	2.48746G	55.47	74.00	-18.53	31.28	3	H	NaN	NaN	-



110V 60Hz
EUT= X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(*)	Height(m)	Comments
AV	2.48G	100.02	Inf	-Inf	31.26	3	H	NaN	NaN	-
AV	2.48352G	46.83	54.00	-7.17	31.27	3	H	NaN	NaN	-
PK	2.47968G	101.48	Inf	-Inf	31.26	3	H	NaN	NaN	-
PK	2.48368G	56.84	74.00	-17.16	31.27	3	H	NaN	NaN	-
AV	4.96G	35.52	54.00	-18.48	6.93	3	H	NaN	NaN	-
PK	4.96G	48.00	74.00	-26.00	6.93	3	H	NaN	NaN	-
AV	7.44G	38.19	54.00	-15.81	12.07	3	H	NaN	NaN	-
PK	7.44G	52.58	74.00	-21.42	12.07	3	H	NaN	NaN	-
PK	9.92G	56.90	Inf	-Inf	15.85	3	H	NaN	NaN	-
AV	4.96G	32.88	54.00	-21.12	6.93	3	V	NaN	NaN	-
PK	4.96G	46.73	74.00	-27.27	6.93	3	V	NaN	NaN	-
AV	7.44G	38.02	54.00	-15.98	12.07	3	V	NaN	NaN	-
PK	7.44G	52.85	74.00	-21.15	12.07	3	V	NaN	NaN	-
PK	9.92G	57.32	Inf	-Inf	15.85	3	V	NaN	NaN	-



110V 60Hz
EUT= X axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(*)	Height(m)	Comments
AV	2.48G	100.02	Inf	-Inf	31.26	3	H	NaN	NaN	-
AV	2.48352G	46.83	54.00	-7.17	31.27	3	H	NaN	NaN	-
PK	2.47968G	101.48	Inf	-Inf	31.26	3	H	NaN	NaN	-
PK	2.48368G	56.84	74.00	-17.16	31.27	3	H	NaN	NaN	-