

FCC TEST REPORT

For

Shenzhen FeiCan Technology Co., Limited

WIFI Group Controller

Test Model: FC-PB-WIFI03

Prepared for

Address

: Shenzhen FeiCan Technology Co., Limited

: 5F, B Block of E Building, Lianchuang Industrial Area,
Zhangge Tangqian village, Guanlan Street, Longhua District,
Shenzhen, China

Prepared by

Address

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Date of receipt of test sample

: October 15, 2015

Number of tested samples

: 1

Sample number

: 15092814

Date of Test

: October 15, 2015 - October 25, 2015

Date of Report

: October 26, 2015

FCC TEST REPORT

FCC CFR 47 PART 15 C(15.247): 2014

Report Reference No. : LCS1510130458E

Date of Issue : October 26, 2015

Testing Laboratory Name : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure : Full application of Harmonised standards Partial application of Harmonised standards Other standard testing method

Applicant's Name : Shenzhen FeiCan Technology Co., Limited

Address : 5F, B Block of E Building, Lianchuang Industrial Area, Zhangge Tangqian village, Guanlan Street, Longhua District, Shenzhen, China

Test Specification

Standard : FCC CFR 47 PART 15 C(15.247): 2014 / ANSI C63.10: 2013

Test Report Form No. : LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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Test Item Description : WIFI Group Controller

Trade Mark : FEICAN

Test Model : FC-PB-WIFI03

Ratings : DC 12~24V by external power supply

Result : Positive

Compiled by:



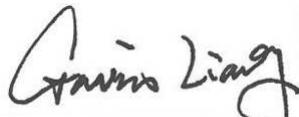
Leo Lee/ File administrators

Supervised by:



Glin Lu/ Technique principal

Approved by:



Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCS1510130458E

October 26, 2015

Date of issue

Test Model..... : FC-PB-WIFI03

EUT..... : WIFI Group Controller

Applicant..... : Shenzhen FeiCan Technology Co., Limited

Address..... : 5F, B Block of E Building, Lianchuang Industrial Area, Zhangge Tangqian village, Guanlan Street, Longhua District, Shenzhen, China

Telephone..... : /

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Telephone..... : /

Fax..... : /

Factory..... : Shenzhen FeiCan Technology Co., Limited

Address..... : 5F, B Block of E Building, Lianchuang Industrial Area, Zhangge Tangqian village, Guanlan Street, Longhua District, Shenzhen, China

Telephone..... : /

Fax..... : /

Test Result

Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: WIFI Group Controller
Test Model	: FC-PB-WIFI03
Hardware Version	: V1.0
Software Version	: V1.0
Power Supply	: DC 12~24V by external power supply
Operating Frequency	: 2412.00-2462.00MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz Bandwidth
Modulation Technology	: 802.11b: DSSS(CCK,DQPSK,DBPSK) 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)
Data Rates	: 802.11b: 1-11Mbps 802.11g: 6-54Mbps
Antenna Description	: Integral Antenna, 2.0dBi(Max.)

1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
LCS	DC 12V Adapter	LCS-12001000	N/A	VOC
LCS	DC 24V Adapter	LCS-24001000	N/A	VOC

***Note: The power adapter was supplied by LCS lab and used as auxiliary equipment for testing.

1.3. External I/O

I/O Port Description	Quantity	Cable
Power Input Interface	1 (V+ & V-)	N/A
RGB Interface	1 (V+ & R & G & B)	N/A

1.4. Description of Test Facility

CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

1.5. List Of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal Date	Due Date
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	June 18,2015	June 17,2016
Signal analyzer	Agilent	E4448A(External mixers to 40GHz)	US44300469	9kHz~40GHz	July 16,2015	July 15,2016
LISN	MESS Tec	NNB-2/16Z	99079	9KHz-30MHz	June 18,2015	June 17,2016
LISN (Support Unit)	EMCO	3819/2NM	9703-1839	9KHz-30MHz	June 18,2015	June 17,2016
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9KHz-30MHz	June 18,2015	June 17,2016
ISN	SCHAFFNER	ISN ST08	21653	9KHz-30MHz	June 18,2015	June 17,2016
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30M-1GHz 3m	June 18,2015	June 17,2016
Amplifier	SCHAFFNER	COA9231A	18667	9kHz-2GHz	June 18,2015	June 17,2016
Amplifier	Agilent	8449B	3008A02120	1GHz-26.5GHz	July 16,2015	July 15,2016
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz-40GHz	July 16,2015	July 15,2016
Spectrum Analyzer	Agilent	E4407B	MY41440292	9k-26.5GHz	July 16,2015	July 15,2016
MAX Signal Analyzer	Agilent	N9020A	MY50510140	20Hz~26.5GHz	Oct. 27, 2014	Oct. 26, 2015
Loop Antenna	R&S	HFH2-Z2	860004/001	9k-30MHz	June 18,2015	June 17,2016
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	30MHz-1GHz	June 10,2015	June 09,2016
Horn Antenna	EMCO	3115	6741	1GHz-18GHz	June 10,2015	June 09,2016
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz-40GHz	June 10,2015	June 09,2016
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz-1GHz	June 18,2015	June 17,2016
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz-40GHz	June 18,2015	June 17,2016
Spectrum Meter	R&S	FSP 30	100023	9kHz-30GHz	July 16,2015	July 15,2016
Power Meter	R&S	NRVS	100444	DC-40GHz	June 18,2015	June 17,2016
Power Sensor	R&S	NRV-Z51	100458	DC-30GHz	June 18,2015	June 17,2016
Power Sensor	R&S	NRV-Z32	10057	30MHz-6GHz	June 18,2015	June 17,2016
RF CABLE-1m	JYE Bao	RG142	CB034-1m	20MHz-7GHz	June 18,2015	June 17,2016
RF CABLE-2m	JYE Bao	RG142	CB035-2m	20MHz-1GHz	June 18,2015	June 17,2016

Note: All equipment through GRGTEST calibration

1.6. Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.7. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty :	9KHz~30MHz	3.10dB	(1)
	30MHz~200MHz	2.96dB	(1)
	200MHz~1000MHz	3.10dB	(1)
	1GHz~26.5GHz	3.80dB	(1)
	26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty :	150kHz~30MHz	1.63dB	(1)
Power disturbance :	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. Description Of Test Modes

The EUT has been tested under operating condition.

The EUT was set to transmit at 100% duty cycle.

For pre-testing, when performed with adapter, the input Voltage/Frequency AC 120V/60Hz and AC 240V/60Hz were used for adapter; the input voltage DC 12V and DC 24V to the EUT were performed. Only recorded the worst case in this report.

Worst-case mode and channel used for 150kHz-30 MHz power line conducted emissions was determined to be 802.11b mode(High Channel).

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was determined to be 802.11b mode(High Channel).

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

802.11b Mode : 1 Mbps, DSSS.

802.11g Mode : 6 Mbps, OFDM.

***Note: Using a temporary antenna connector for the EUT when the conducted measurements are performed.

Channel List & Frequency

802.11b/g:

Frequency Band	Channel No.	Frequency(MHz)	Channel No.	Frequency(MHz)
2412~2462MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	--	--

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10: 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd..

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure KDB558074 D01 DTS Meas Guidance v03r02 is required to be used for this kind of FCC 15.247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

According to the requirements in Section 6.2 of ANSI C63.10: 2013, AC power-line conducted emissions shall be measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table and the turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10: 2013

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmit condition.

3.2. EUT Exercise Software

N/A

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C		
FCC Rules	Description of Test	Result
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	6dB Bandwidth	Compliant
§15.209, §15.247(d)	Radiated and Conducted Spurious Emissions	Compliant
§15.205	Emissions at Restricted Band	Compliant
§15.207(a)	Line Conducted Emissions	Compliant
§15.203	Antenna Requirements	Compliant

5. TEST RESULT

5.1. Maximum Conducted Output Power Measurement

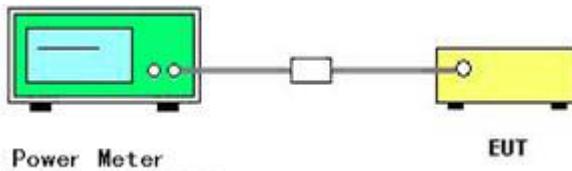
5.1.1. Standard Applicable

According to § 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz bands: 1 Watt.

5.1.2. Test Procedures

The transmitter output (antenna port) was connected to the power meter.

5.1.3. Test Setup Layout



5.1.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.5. Test Result of Maximum Conducted Output Power

Temperature	25°C	Humidity	60%
Test Engineer	Leo	Configurations	802.11b/g

802.11b

Channel	Frequency (MHz)	Conducted Power (dBm, Average)	Max. Limit (dBm)	Result
1	2412	15.53	30	Complies
6	2437	15.41	30	Complies
11	2462	15.58	30	Complies

802.11g

Channel	Frequency (MHz)	Conducted Power (dBm, Average)	Max. Limit (dBm)	Result
1	2412	14.78	30	Complies
6	2437	14.69	30	Complies
11	2462	14.81	30	Complies

5.2. Power Spectral Density Measurement

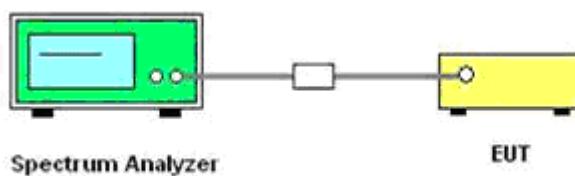
5.2.1. Standard Applicable

According to §15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.2.2. Test Procedures

- 1) The transmitter was connected directly to a Spectrum Analyzer through a directional couple.
- 2) The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
- 3) Set the RBW = 3 kHz.
- 4) Set the VBW \geq 3*RBW
- 5) Set the span to 1.5 times the DTS channel bandwidth.
- 6) Detector = peak.
- 7) Sweep time = auto couple.
- 8) Trace mode = max hold.
- 9) Allow trace to fully stabilize.
- 10) Use the peak marker function to determine the maximum power level in any 3 kHz band segment within the fundamental EBW.

5.2.3. Test Setup Layout



5.2.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.5. Test Result of Power Spectral Density

Temperature	25°C	Humidity	60%
Test Engineer	Leo	Configurations	802.11b/g

802.11b

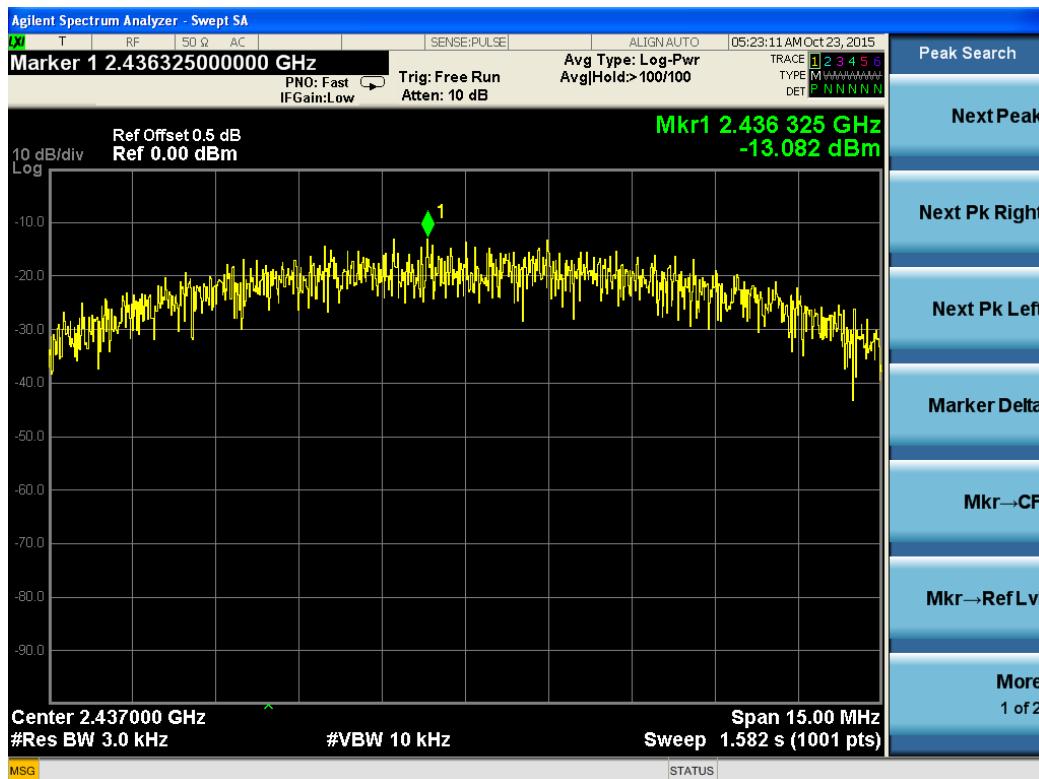
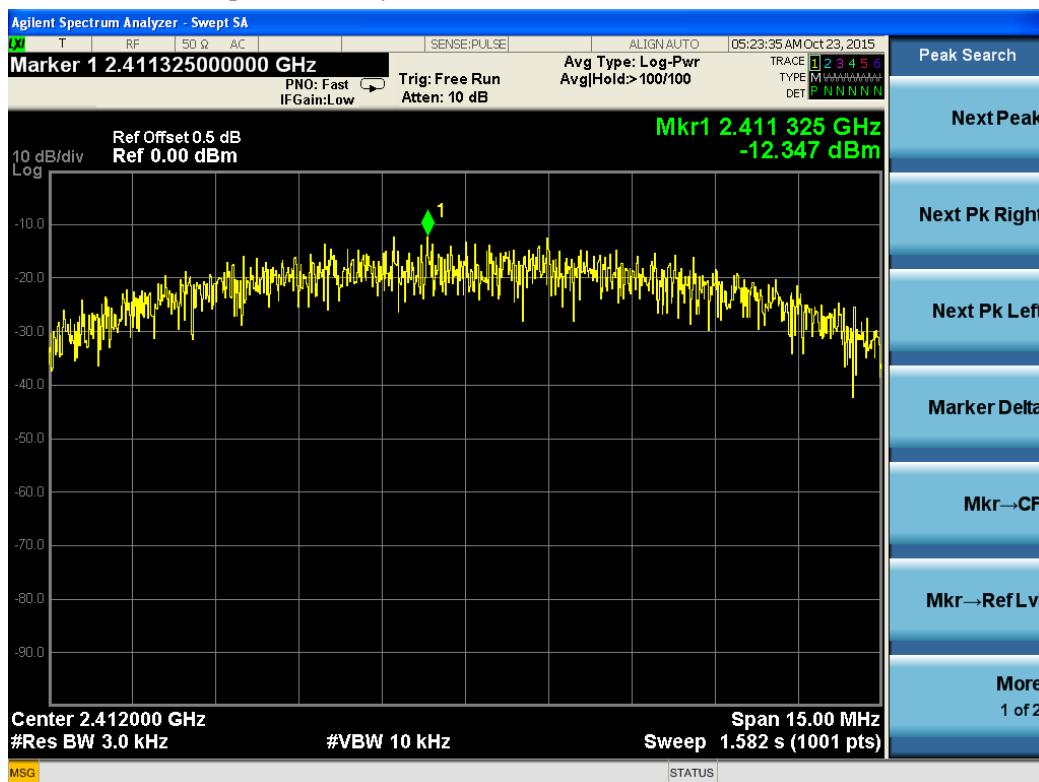
Channel	Frequency (MHz)	Power Density (dBm/3KHz)	Max. Limit (dBm/3KHz)	Result
1	2412	-12.347	8	Complies
6	2437	-13.082	8	Complies
11	2462	-13.403	8	Complies

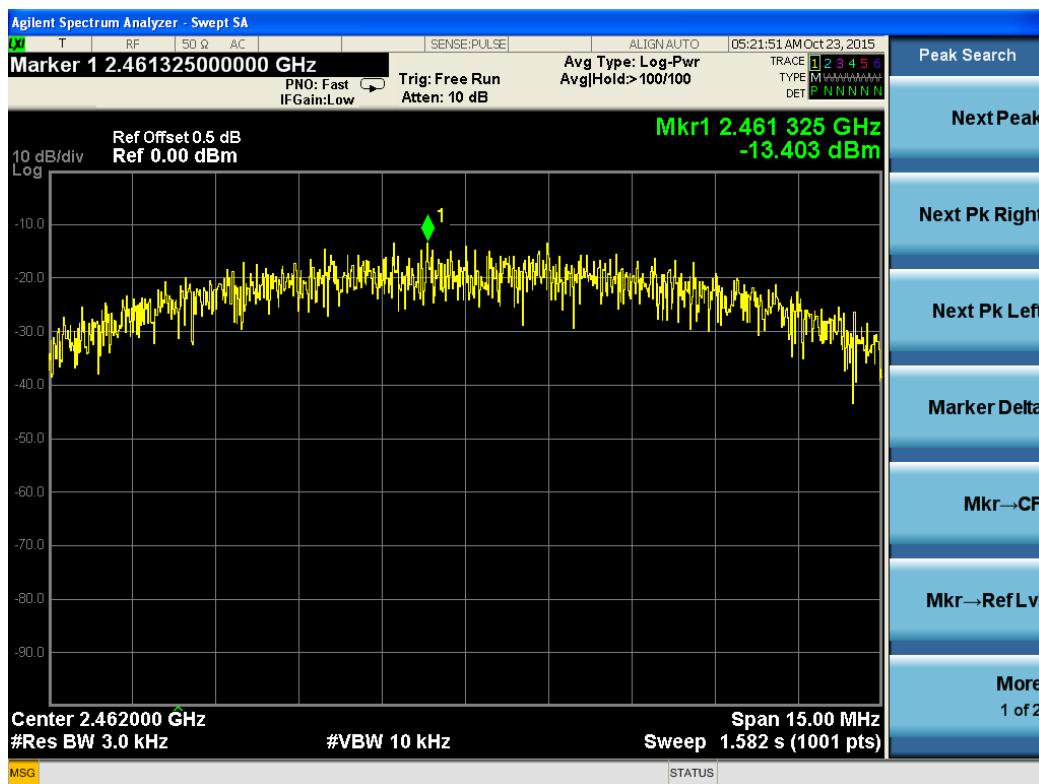
802.11g

Channel	Frequency (MHz)	Power Density (dBm/3KHz)	Max. Limit (dBm/3KHz)	Result
1	2412	-17.976	8	Complies
6	2437	-18.948	8	Complies
11	2462	-19.283	8	Complies

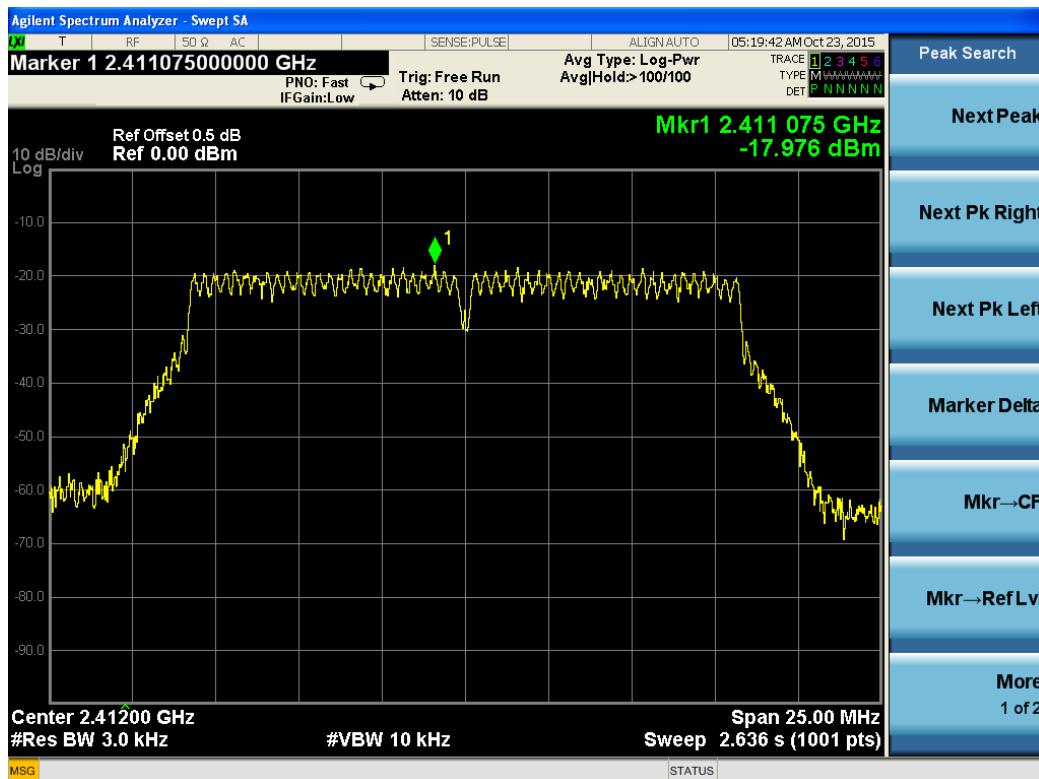
Note: The measured power density (dBm) has the offset with cable loss already.

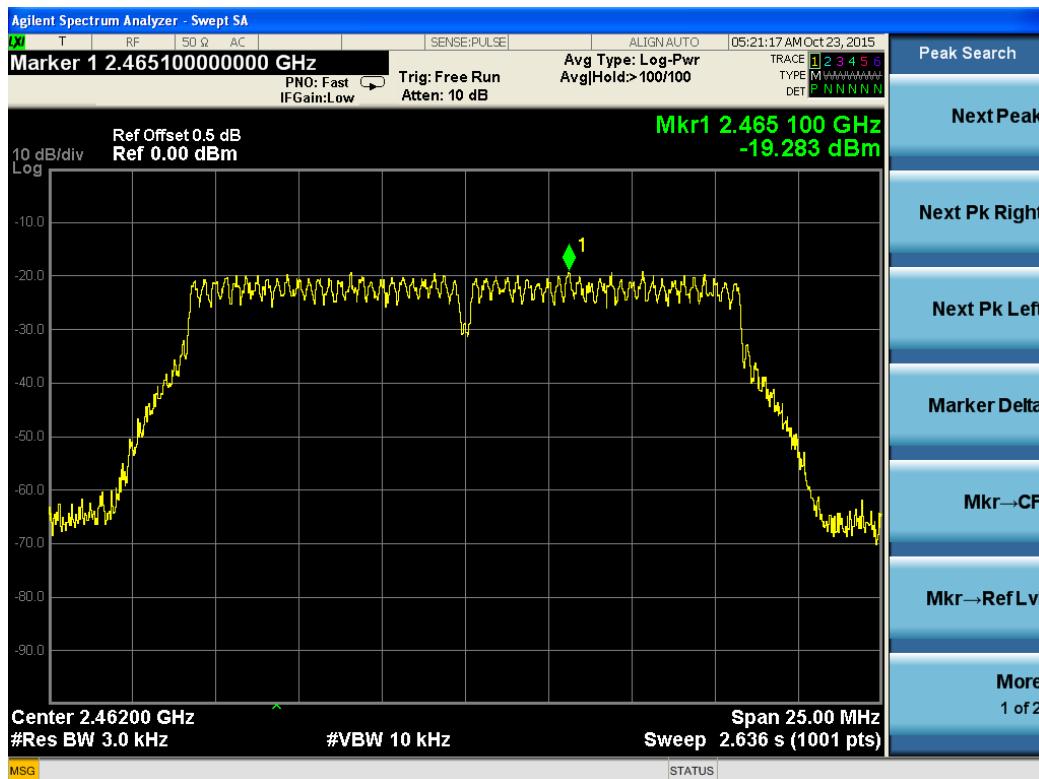
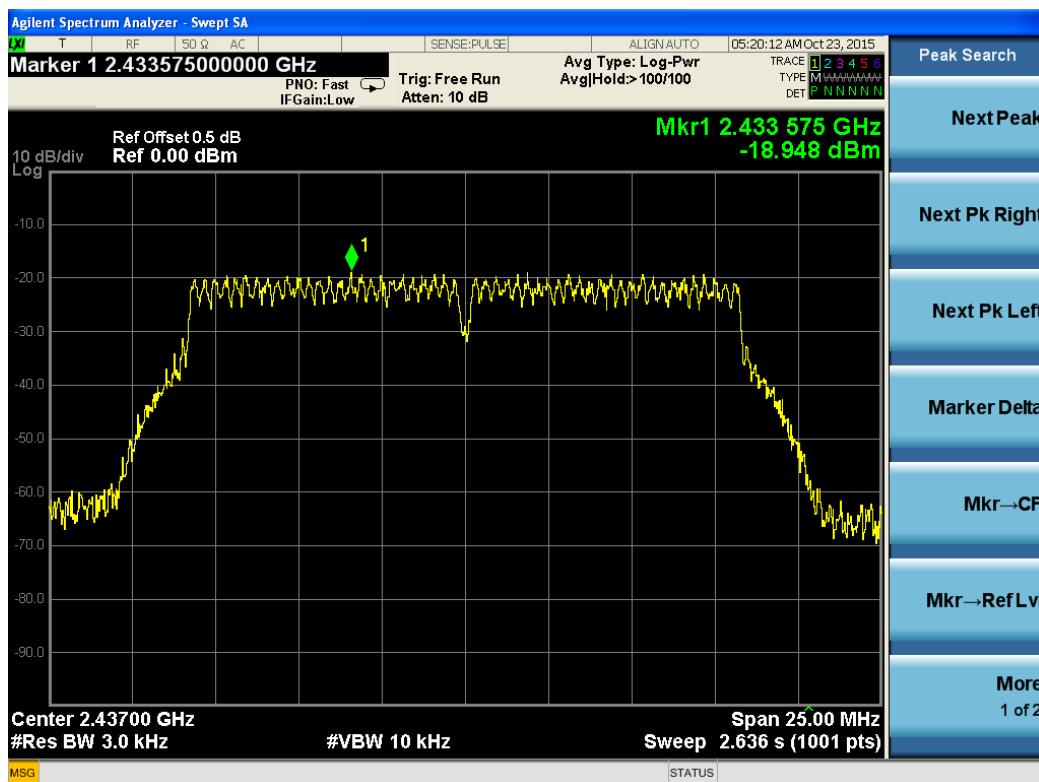
802.11b power density





802.11g power density





5.3. 6 dB Spectrum Bandwidth Measurement

5.3.1. Standard Applicable

According to §15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.3.2. Instruments Setting

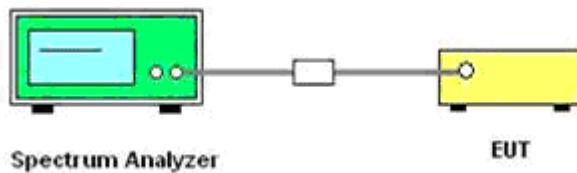
The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	100ms

5.3.3. Test Procedures

- 1) The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- 2) The resolution bandwidth and the video bandwidth were set according to KDB558074 D01 DTS Meas. Guidance v03r02.
- 3) Measured the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.
- 4) Measured the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20dB relative to the maximum level measured in the fundamental emission.

5.3.4. Test Setup Layout



5.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.6. Test Result of Spectrum Bandwidth

Temperature	25°C	Humidity	60%
Test Engineer	Leo	Configurations	802.11b/g

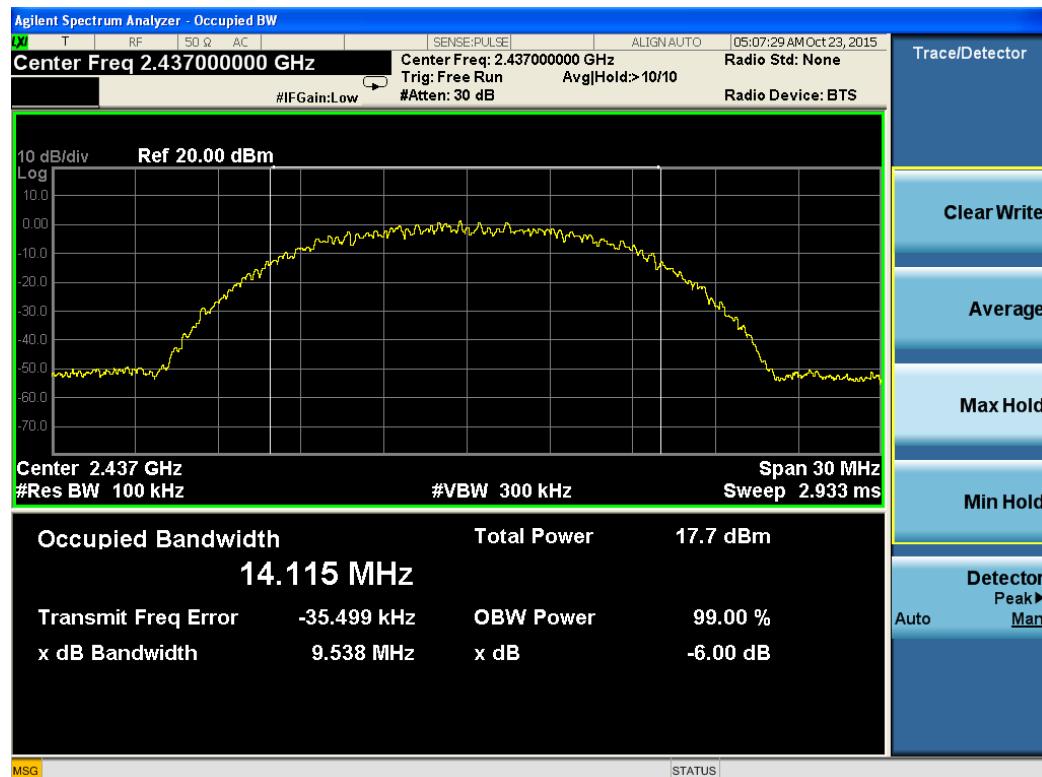
802.11b

Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Result
1	2412	9.54	500	Complies
6	2437	9.54	500	Complies
11	2462	9.53	500	Complies

802.11g

Channel	Frequency	6dB Bandwidth (MHz)	Min. Limit (kHz)	Result
1	2412	16.62	500	Complies
6	2437	16.61	500	Complies
11	2462	16.61	500	Complies

802.11b channel, 6dB bandwidth





802.11g channel, 6dB bandwidth





802.11b

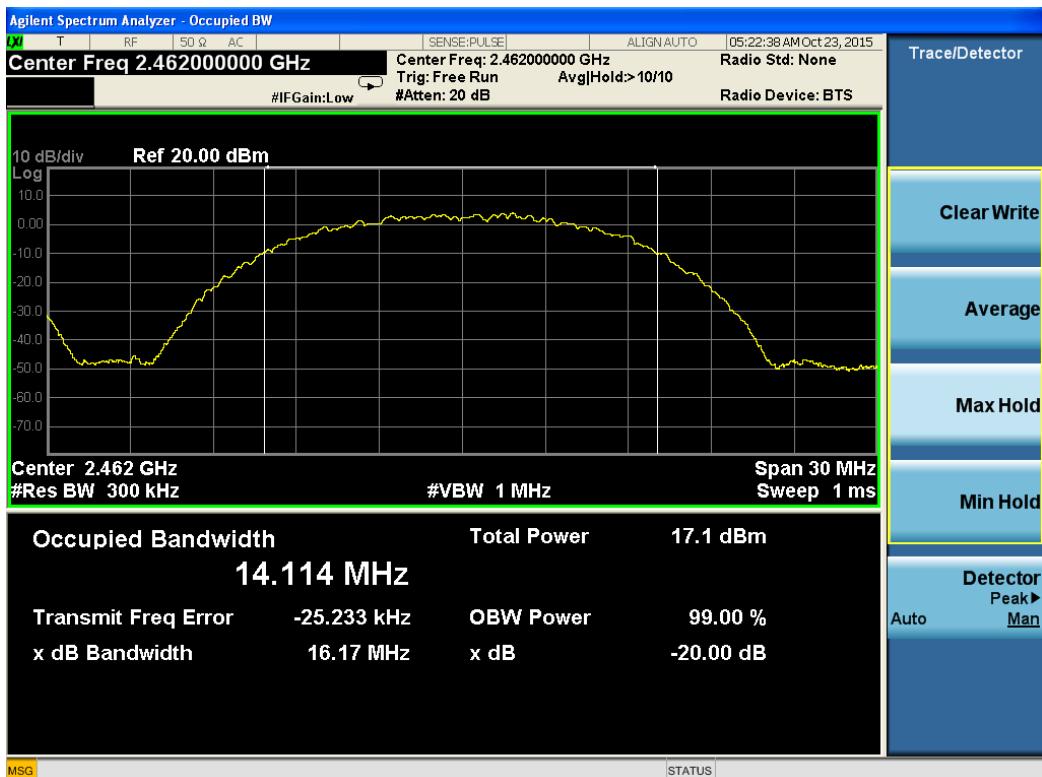
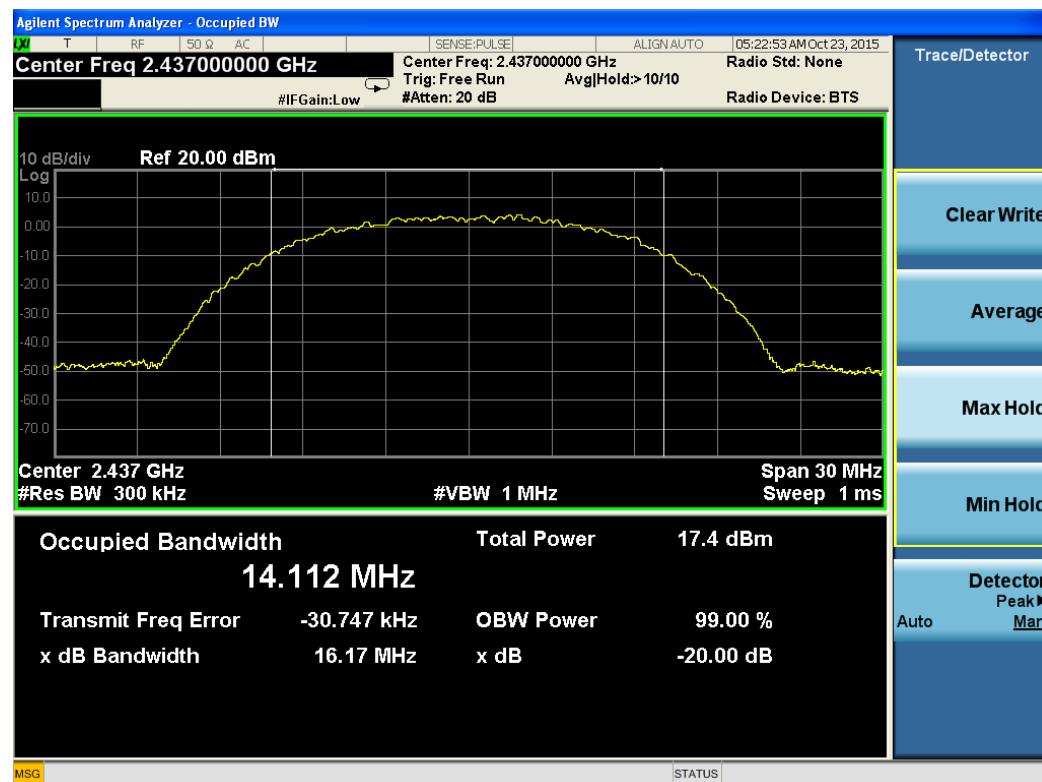
Channel	Frequency	20dB Bandwidth (MHz)	Limit
1	2412	16.17	Non-specified
6	2437	16.17	
11	2462	16.17	

802.11g

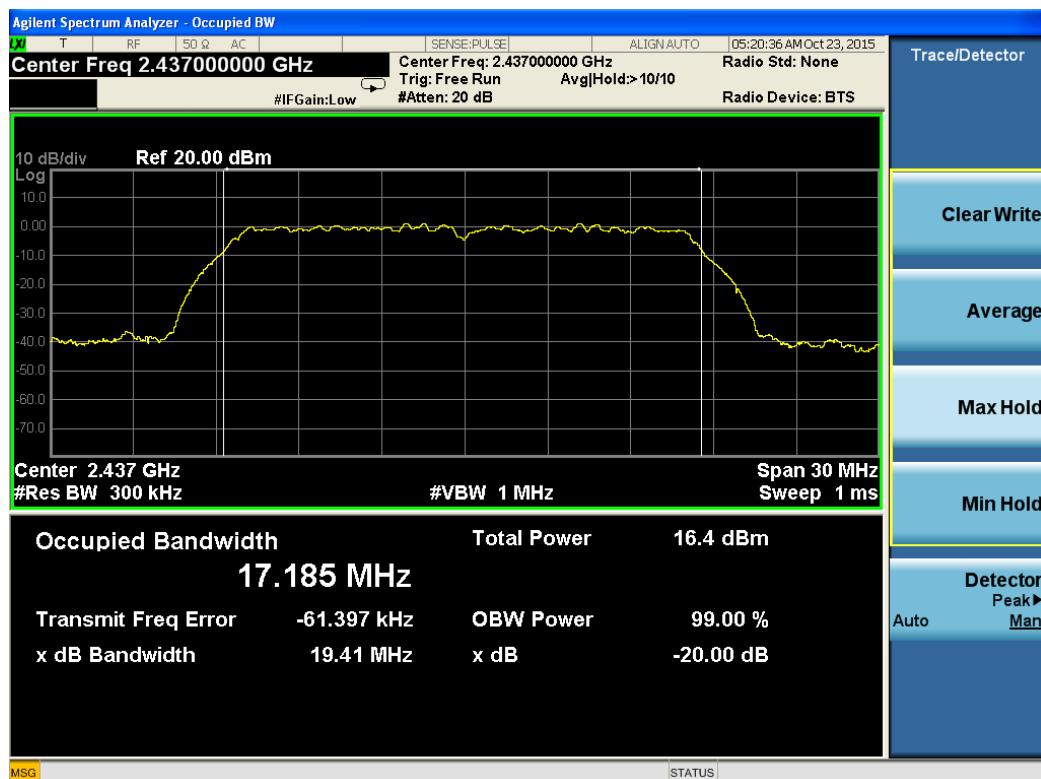
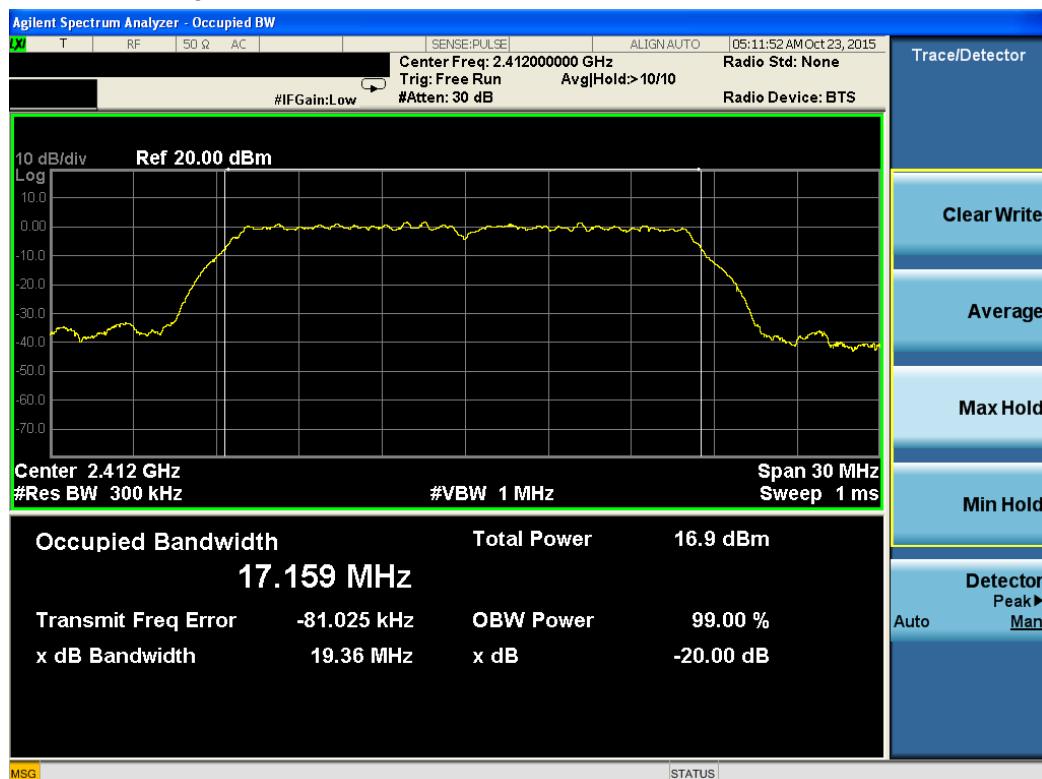
Channel	Frequency	20dB Bandwidth (MHz)	Limit
1	2412	19.36	Non-specified
6	2437	19.41	
11	2462	19.39	

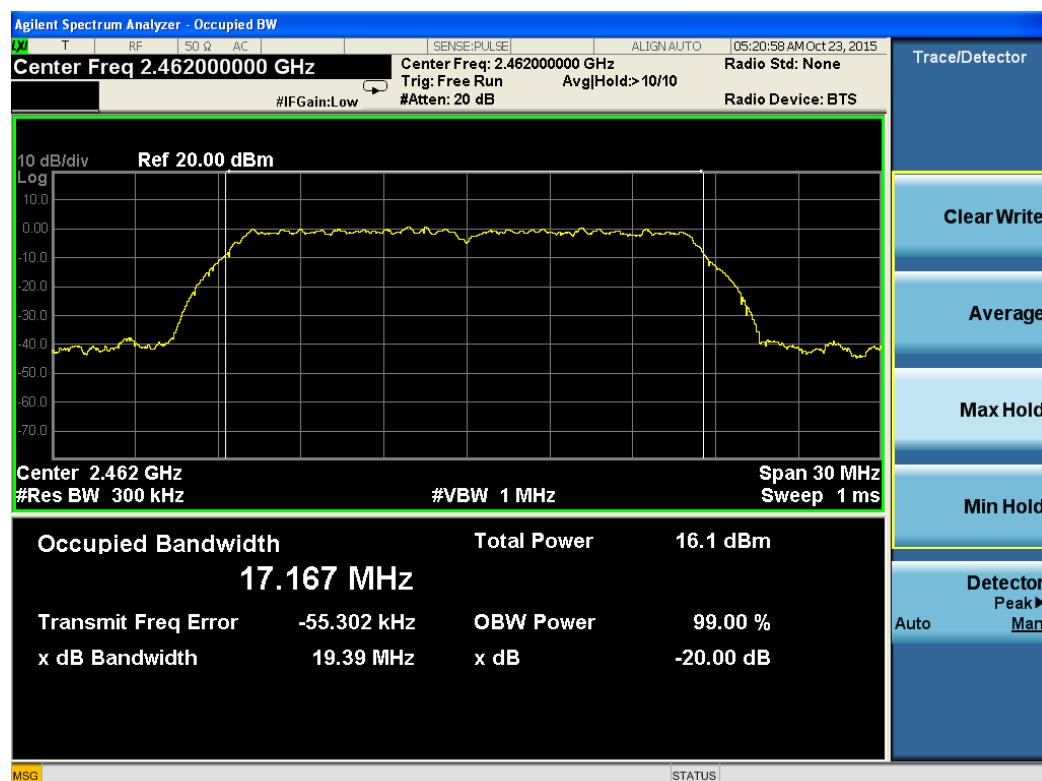
802.11b channel, 20dB bandwidth





802.11g channel, 20dB bandwidth





5.4. Radiated Emissions Measurement

5.4.1. Standard Applicable

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies(MHz)	Field Strength(microvolts/meter)	Measurement Distance(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

5.4.2. Instruments Setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

5.4.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0 ° to 315 ° using 45 ° steps.
- The antenna height is 0.8 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0 ° to 360 °) and by rotating the elevation axes (0 ° to 360 °).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0 ° to 315 ° using 45 ° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 12.75 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0 ° to 315 ° using 45 ° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height is 1.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum found antenna polarisation and turntable position of the premeasurement the software maximizes the peaks by rotating the turntable position (0 ° to 360 °). This measurement is repeated for different EUT-table positions (0 ° to 150 ° in 30 °-steps). This procedure is repeated for both antenna polarisations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and RMS detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 12.75 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

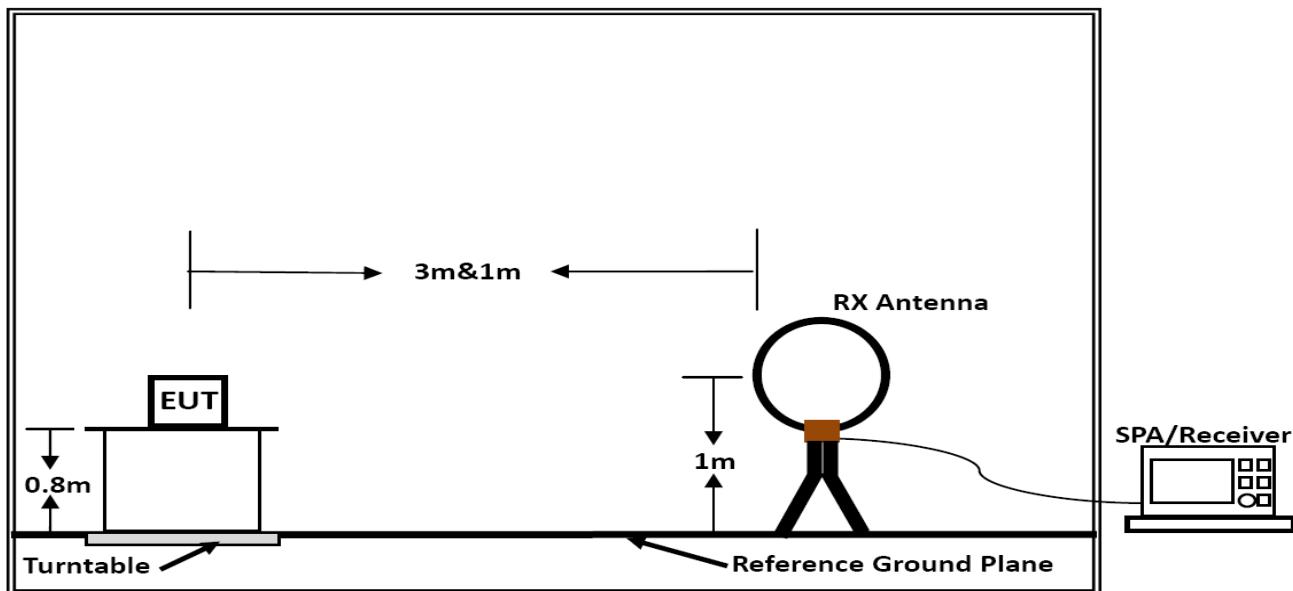
Premeasurement:

- The antenna is moved spherical over the EUT in different polarisations of the antenna.

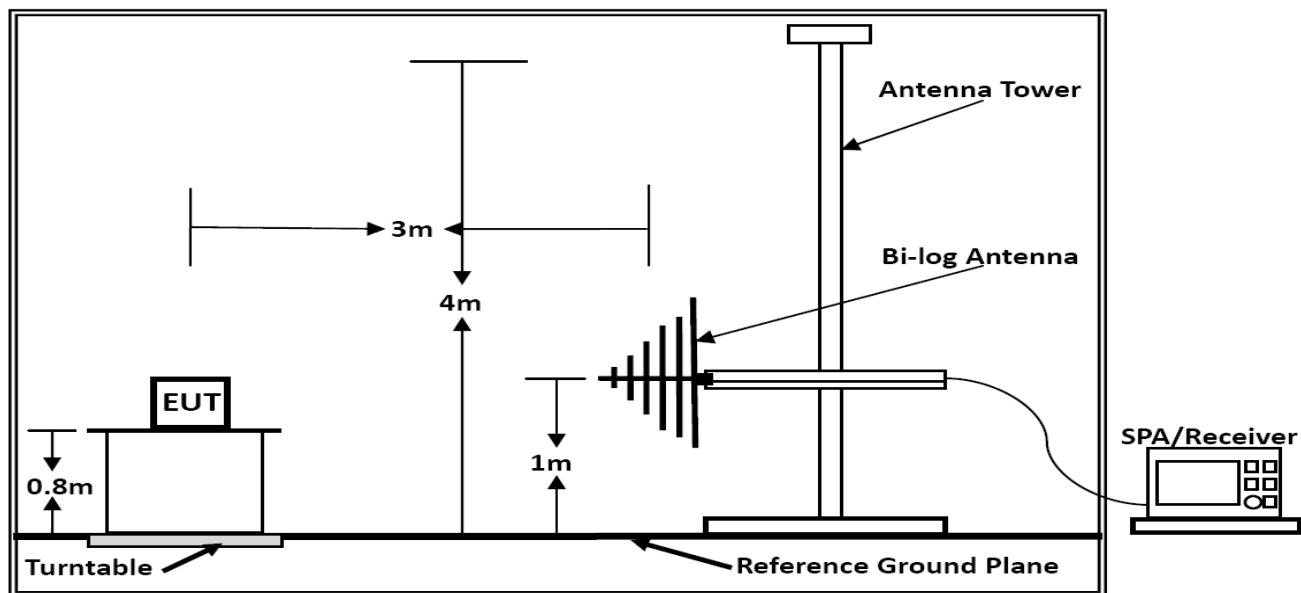
Final measurement:

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and RMS detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

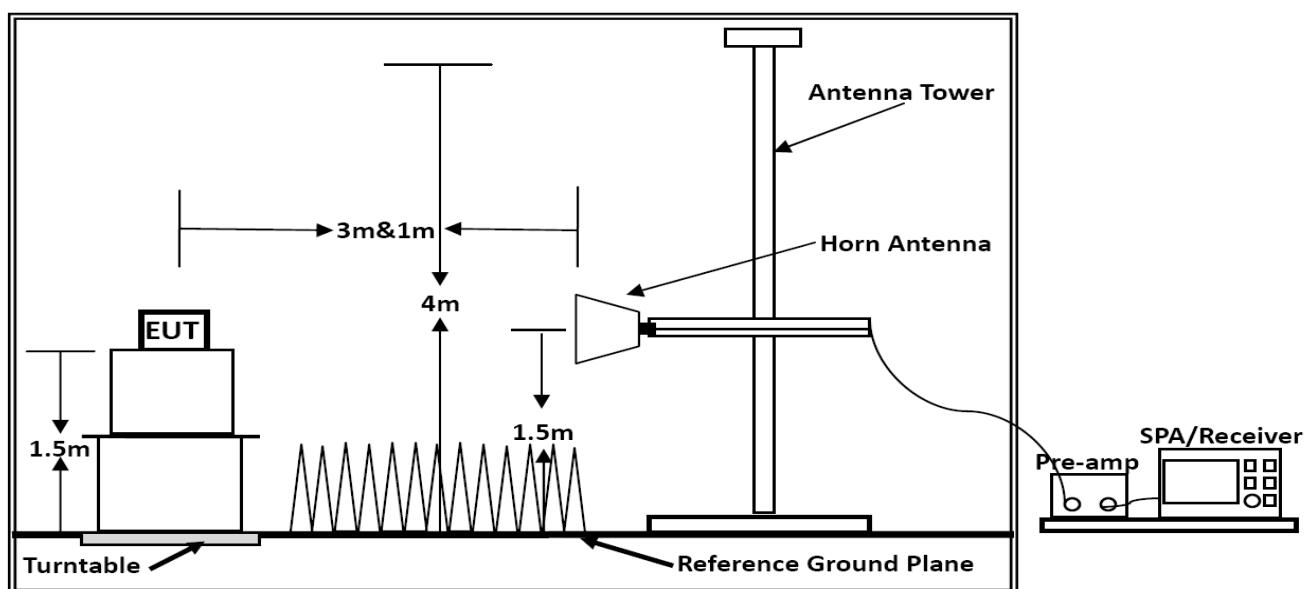
5.4.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 1GHz

Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1.5m]})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.6. Results of Radiated Emissions (9kHz~30MHz)

Temperature	25°C	Humidity	60%
Test Engineer	Leo	Configurations	802.11b/g

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

The radiated emissions from 9kHz to 30MHz are at least 20dB below the official limit and no need to report.

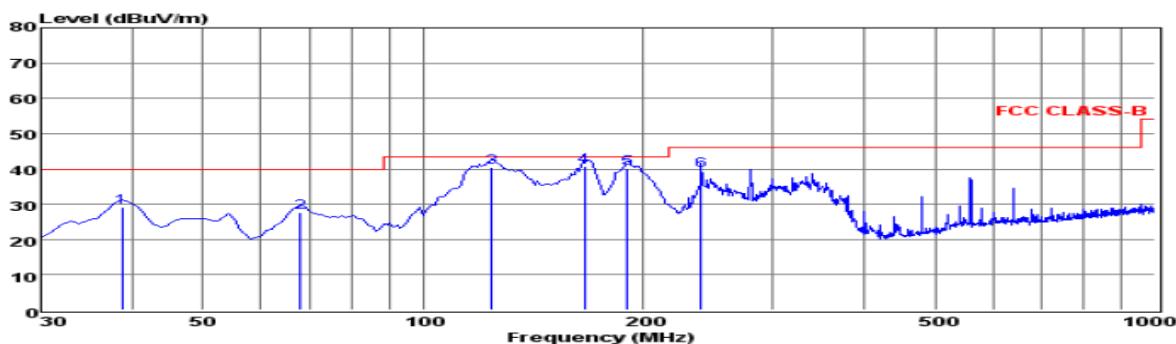
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

5.4.7. Results of Radiated Emissions (30MHz~1GHz)

Temperature	25°C	Humidity	60%
Test Engineer	Leo	Configurations	802.11b(High Channel)

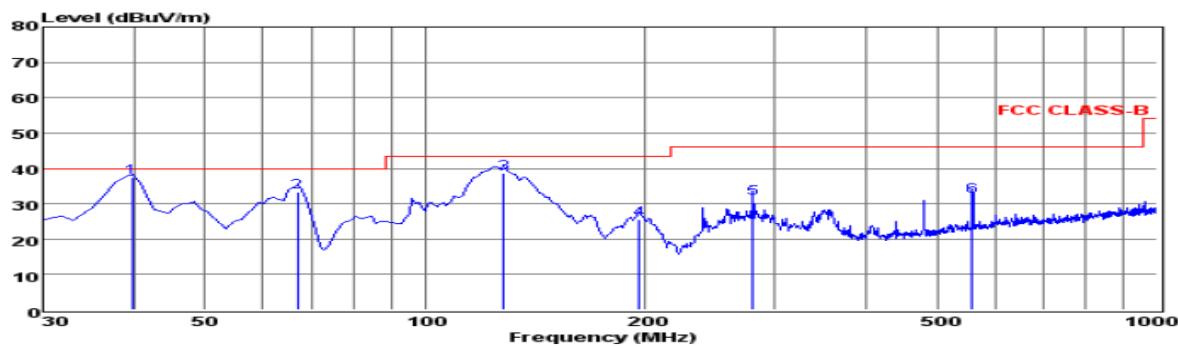
The worst test result for performing with DC 12V Adapter(Input: AC 120V/60Hz) / 802.11b(High Channel)



Env. / Ins: 24 °C / 56%
EUT: WIFI Group Controller
M/N: FC-PB-WIFI03
Power Rating: AC 120V / 60Hz
Test Mode: TX-High Channel (802.11b)
Operator: Leo
Memo: With DC 12V Adapter
pol: HORIZONTAL

Freq MHz	Reading dBuV	CabLoss dB	Antfac dB/m	Measured dBuV/m		Limit dBuV/m	Over dB	Remark
				Measured dBuV/m	Limit dBuV/m			
1 38.73	15.58	0.38	13.25	29.21	40.00	-10.79	QP	
2 67.83	17.68	0.51	9.54	27.73	40.00	-12.27	QP	
3 124.09	29.93	0.71	9.85	40.49	43.50	-3.01	QP	
4 165.80	31.08	0.77	8.84	40.69	43.50	-2.81	QP	
5 190.05	28.75	0.86	10.56	40.17	43.50	-3.33	QP	
6 239.52	26.61	1.01	12.07	39.69	46.00	-6.31	QP	

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the official limit are not reported

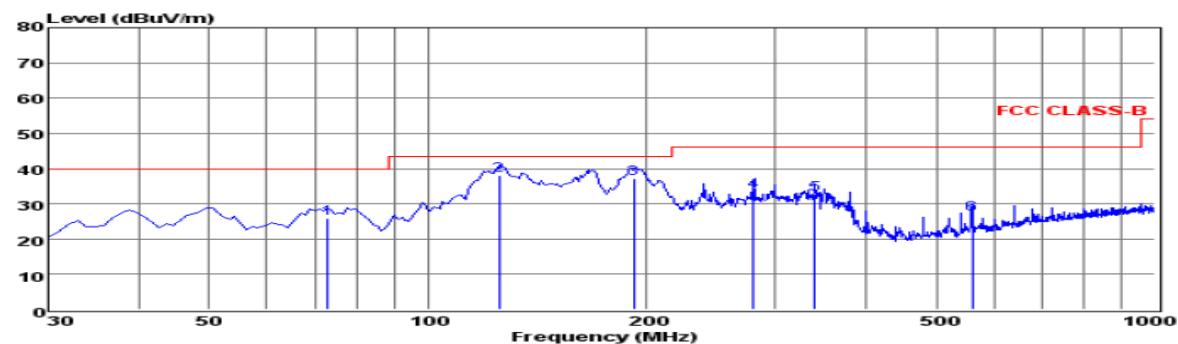


Env./Ins: 24 °C / 56%
 EUT: WIFI Group Controller
 M/N: FC-PB-WIFI03
 Power Rating: AC 120V/60Hz
 Test Mode: TX-High Channel(802.11b)
 Operator: Leo
 Memo: With DC 12V Adapter
 pol: VERTICAL

Freq	Reading	CabLos	Antfac	Measured		Limit	Over	Remark
				MHz	dBuV	dB	dB/m	
1	39.70	23.48	0.38	13.50	37.36	40.00	-2.64	QP
2	66.86	22.88	0.52	9.94	33.34	40.00	-6.66	QP
3	127.97	28.75	0.67	9.24	38.66	43.50	-4.84	QP
4	195.87	14.09	0.96	10.57	25.62	43.50	-17.88	QP
5	280.26	17.81	1.01	12.68	31.50	46.00	-14.50	QP
6	559.62	13.07	1.39	17.69	32.15	46.00	-13.85	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the official limit are not reported

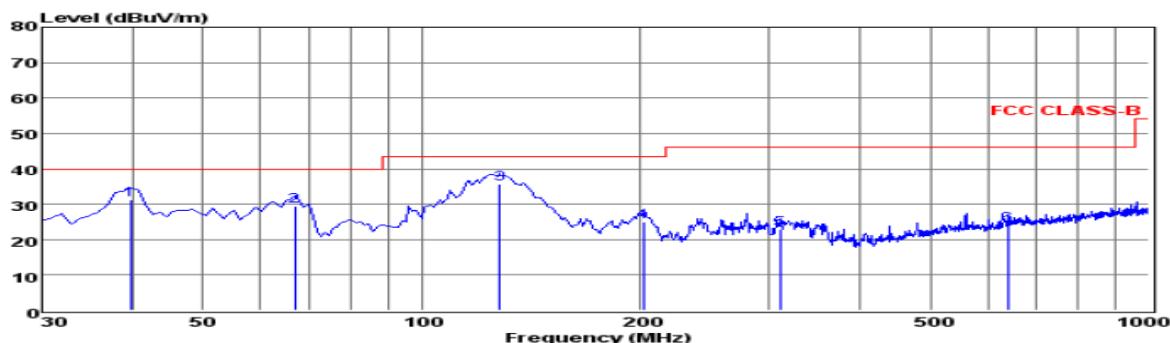
The worst test result for performing with DC 12V Adapter(Input: AC 240V/60Hz) / 802.11b(High Channel)



Env./Ins: 24 °C / 56%
 EUT: WIFI Group Controller
 M/N: FC-PB-WIFI03
 Power Rating: AC 240V/60Hz
 Test Mode: TX-High Channel(802.11b)
 Operator: Leo
 Memo: With DC 12V Adapter
 pol: HORIZONTAL

Freq	Reading	CabLos	Antfac	Measured		Limit	Over	Remark
				MHz	dBuV	dB	dB/m	
1	72.68	17.19	0.55	8.19	25.93	40.00	-14.07	OP
2	125.06	27.74	0.71	9.70	38.15	43.50	-5.35	QP
3	191.99	25.89	0.76	10.56	37.21	43.50	-6.29	QP
4	280.26	20.03	1.01	12.68	33.72	46.00	-12.28	QP
5	340.40	17.33	1.12	14.13	32.58	46.00	-13.42	QP
6	560.59	7.85	1.43	17.71	26.99	46.00	-19.01	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the official limit are not reported

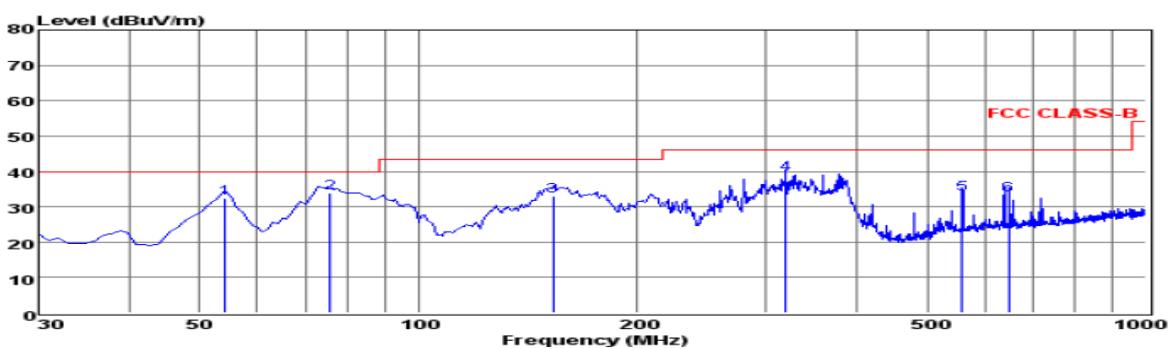


Env. / Ins: 24 °C / 56%
 EUT: WIFI Group Controller
 M/N: FC-PB-WIFI03
 Power Rating: AC 240V/60Hz
 Test Mode: TX-High Channel(802.11b)
 Operator: Leo
 Memo: with DC 12V Adapter
 pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	39.70	17.48	0.38	13.50	31.36	40.00	-8.64	QP
2	66.86	18.88	0.52	9.94	29.34	40.00	-10.66	QP
3	127.97	25.75	0.67	9.24	35.66	43.50	-7.84	QP
4	201.69	13.45	0.82	10.62	24.89	43.50	-18.61	QP
5	311.30	8.51	1.09	13.21	22.81	46.00	-23.19	QP
6	640.13	4.03	1.56	18.59	24.18	46.00	-21.82	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the official limit are not reported

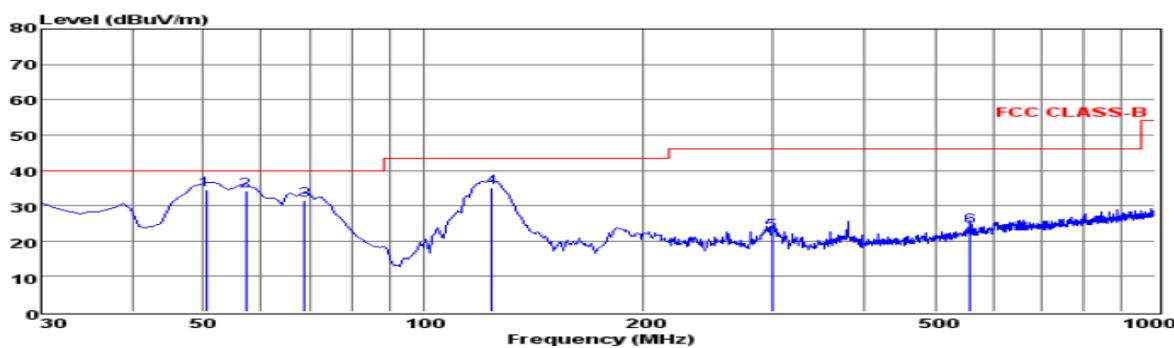
The worst test result for performing with DC 24V Adapter(Input: AC 120V/60Hz) / 802.11b(High Channel)



Env. / Ins: 24 °C / 56%
 EUT: WIFI Group Controller
 M/N: FC-PB-WIFI03
 Power Rating: AC 120V/60Hz
 Test Mode: TX-High Channel(802.11b)
 Operator: Leo
 Memo: with DC 24V Adapter
 pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	54.25	19.02	0.46	13.05	32.53	40.00	-7.47	QP
2	75.59	25.39	0.54	7.89	33.82	40.00	-6.18	QP
3	153.19	24.01	0.73	8.39	33.13	43.50	-10.37	QP
4	320.03	24.83	1.16	13.33	39.32	46.00	-6.68	QP
5	559.62	14.44	1.39	17.69	33.52	46.00	-12.48	QP
6	647.89	13.24	1.54	18.62	33.40	46.00	-12.60	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the official limit are not reported

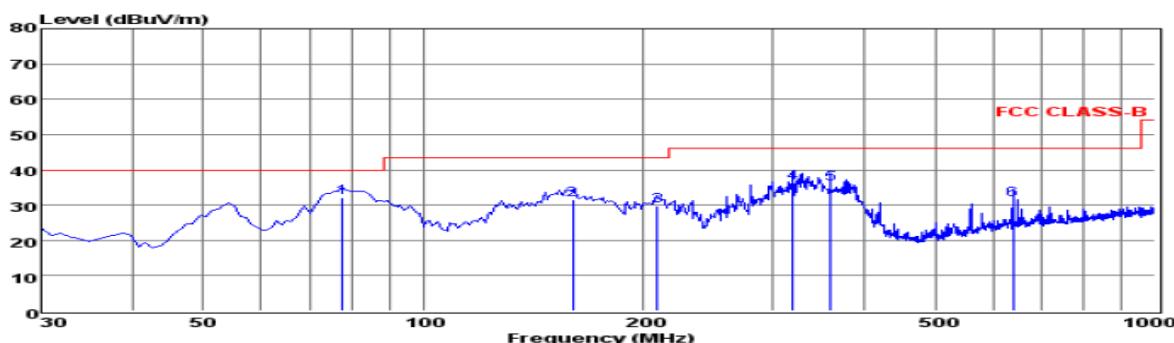


Env./Ins: 24 °C / 56%
 EUT: WIFI Group Controller
 M/N: FC-PB-WIFI03
 Power Rating: AC 120V/60Hz
 Test Mode: TX-High Channel (802.11b)
 Operator: Leo
 Memo: With DC 24V Adapter
 pol: VERTICAL

	Freq	Reading	CabLoss	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	50.37	20.82	0.54	13.23	34.59	40.00	-5.41	QP
2	57.16	20.82	0.47	12.88	34.17	40.00	-5.83	QP
3	68.80	21.86	0.51	9.14	31.51	40.00	-8.49	QP
4	124.09	24.56	0.71	9.85	35.12	43.50	-8.38	QP
5	299.66	8.32	1.13	13.05	22.50	46.00	-23.50	QP
6	559.62	4.87	1.39	17.69	23.95	46.00	-22.05	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the offical limit are not reported

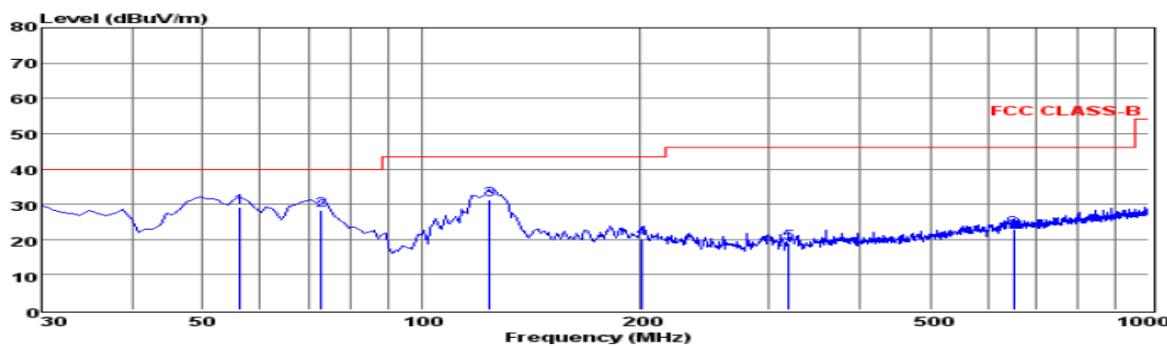
The worst test result for performing with DC 24V Adapter(Input: AC 240V/60Hz) / 802.11b(High Channel)



Env./Ins: 24 °C / 56%
 EUT: WIFI Group Controller
 M/N: FC-PB-WIFI03
 Power Rating: AC 240V/60Hz
 Test Mode: TX-High Channel (802.11b)
 Operator: Leo
 Memo: With DC 24V Adapter
 pol: HORIZONTAL

	Freq	Reading	CabLoss	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	77.53	23.38	0.47	8.17	32.02	40.00	-7.98	OP
2	159.98	21.99	0.75	8.67	31.41	43.50	-12.09	QP
3	208.48	18.01	0.86	10.84	29.71	43.50	-13.79	QP
4	320.03	21.83	1.16	13.33	36.32	46.00	-9.68	QP
5	359.80	20.40	1.18	14.43	36.01	46.00	-9.99	QP
6	640.13	11.24	1.56	18.59	31.39	46.00	-14.61	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the offical limit are not reported



Env. / Ins: 24 °C / 56%
 EUT: WiFi Group Controller
 M/N: FC-PB-WIFI03
 Power Rating: AC 240V/60Hz
 Test Mode: TX-High Channel (802.11b)
 Operator: Leo
 Memo: With DC 24V Adapter
 pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	56.19	15.63	0.47	12.94	29.04	40.00	-10.96	QP
2	72.68	19.59	0.55	8.19	28.33	40.00	-11.67	QP
3	124.09	20.56	0.71	9.85	31.12	43.50	-12.38	QP
4	200.72	8.90	0.84	10.59	20.33	43.50	-23.17	QP
5	320.03	4.45	1.16	13.33	18.94	46.00	-27.06	QP
6	650.80	2.61	1.58	18.63	22.82	46.00	-23.18	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured = Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the official limit are not reported

Note:

Pre-scan all mode and recorded the worst case results in this report (802.11b (High Channel)).
 Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preampl Factor = Level.

5.4.8. Results for Radiated Emissions (Above 1GHz)

Note: Only recorded the worst test result(Performed with DC 12V Adapter(Input AC 120V60Hz)) in this report.

802.11b

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.11	47.42	33.06	35.04	3.94	49.38	74	-24.62	Peak	Horizontal
4824.13	37.50	33.06	35.04	3.94	39.46	54	-14.54	Average	Horizontal
4824.11	48.49	33.06	35.04	3.94	50.45	74	-23.55	Peak	Vertical
4824.13	38.93	33.06	35.04	3.94	40.89	54	-13.11	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.16	45.05	33.16	35.15	3.96	47.02	74	-26.98	Peak	Horizontal
4874.19	35.68	33.16	35.15	3.96	37.65	54	-16.35	Average	Horizontal
4874.16	47.76	33.16	35.15	3.96	49.73	74	-24.27	Peak	Vertical
4874.19	37.65	33.16	35.15	3.96	39.62	54	-14.38	Average	Vertical

Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.24	47.55	33.26	35.14	3.98	49.65	74	-24.35	Peak	Horizontal
4924.26	38.10	33.26	35.14	3.98	40.20	54	-13.80	Average	Horizontal
4924.24	49.64	33.26	35.14	3.98	51.74	74	-22.26	Peak	Vertical
4924.26	40.70	33.26	35.14	3.98	42.80	54	-11.20	Average	Vertical

802.11g

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.17	46.25	33.06	35.04	3.94	48.21	74	-25.79	Peak	Horizontal
4824.20	36.37	33.06	35.04	3.94	38.33	54	-15.67	Average	Horizontal
4824.17	47.64	33.06	35.04	3.94	49.60	74	-24.40	Peak	Vertical
4824.20	38.07	33.06	35.04	3.94	40.03	54	-13.97	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.21	46.97	33.16	35.15	3.96	48.94	74	-25.06	Peak	Horizontal
4874.24	37.14	33.16	35.15	3.96	39.11	54	-14.89	Average	Horizontal
4874.21	47.44	33.16	35.15	3.96	49.41	74	-24.59	Peak	Vertical
4874.24	37.69	33.16	35.15	3.96	39.66	54	-14.34	Average	Vertical

Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.34	48.23	33.26	35.14	3.98	50.33	74	-23.67	Peak	Horizontal
4924.36	38.73	33.26	35.14	3.98	40.83	54	-13.17	Average	Horizontal
4924.34	49.72	33.26	35.14	3.98	51.82	74	-22.18	Peak	Vertical
4924.36	39.48	33.26	35.14	3.98	41.58	54	-12.42	Average	Vertical

Notes:

1. Measuring frequencies from 9k~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
2. Radiated emissions measured in frequency range from 30MHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
3. The radiated emissions from 18GHz to 25GHz are at least 20dB below the official limit and no need to report.

5.4.9. Results of Band Edges Test (Radiated)

Note: Only recorded the worst test result(Performed with DC 12V Adapter(Input AC 120V60Hz)) in this report.

802.11b

Tx-2412

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2375.56	45.51	32.89	35.16	3.51	46.75	74	-27.25	Peak	Horizontal
2375.59	36.22	32.90	35.16	3.51	37.47	54	-16.53	Average	Horizontal
2390.00	47.28	32.92	35.16	3.54	48.58	74	-25.42	Peak	Horizontal
2389.97	37.79	32.92	35.16	3.54	39.09	54	-14.91	Average	Horizontal
2400.00	53.81	32.92	35.16	3.54	55.11	74	-18.89	Peak	Horizontal
2399.97	44.47	32.92	35.16	3.54	45.77	54	-8.23	Average	Horizontal
2375.56	46.98	32.89	35.16	3.51	48.22	74	-25.78	Peak	Vertical
2375.59	37.83	32.90	35.16	3.51	39.08	54	-14.92	Average	Vertical
2390.00	48.75	32.92	35.16	3.54	50.05	74	-23.95	Peak	Vertical
2389.97	38.98	32.92	35.16	3.54	40.28	54	-13.72	Average	Vertical
2400.00	56.10	32.92	35.16	3.54	57.40	74	-16.60	Peak	Vertical
2399.97	46.13	32.92	35.16	3.54	47.43	54	-6.57	Average	Vertical

Tx-2462

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2483.50	47.96	33.06	35.18	3.60	49.44	74	-24.56	Peak	Horizontal
2483.53	38.32	33.08	35.18	3.60	39.82	54	-14.18	Average	Horizontal
2486.47	46.52	33.08	35.18	3.62	48.04	74	-25.96	Peak	Horizontal
2486.50	37.23	33.08	35.18	3.62	38.75	54	-15.25	Average	Horizontal
2483.50	48.76	33.06	35.18	3.60	50.24	74	-23.76	Peak	Vertical
2483.53	38.82	33.08	35.18	3.60	40.32	54	-13.68	Average	Vertical
2486.47	47.81	33.08	35.18	3.62	49.33	74	-24.67	Peak	Vertical
2486.50	38.34	33.08	35.18	3.62	39.86	54	-14.14	Average	Vertical

802.11g

Tx-2412

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2373.61	45.23	32.89	35.16	3.51	46.47	74	-27.53	Peak	Horizontal
2373.63	35.69	32.90	35.16	3.51	36.94	54	-17.06	Average	Horizontal
2390.00	48.11	32.92	35.16	3.54	49.41	74	-24.59	Peak	Horizontal
2389.97	38.78	32.92	35.16	3.54	40.08	54	-13.92	Average	Horizontal
2400.00	53.10	32.92	35.16	3.54	54.40	74	-19.60	Peak	Horizontal
2399.97	43.71	32.92	35.16	3.54	45.01	54	-8.99	Average	Horizontal
2373.61	45.45	32.89	35.16	3.51	46.69	74	-27.31	Peak	Vertical
2373.63	36.14	32.90	35.16	3.51	37.39	54	-16.61	Average	Vertical
2390.00	49.25	32.92	35.16	3.54	50.55	74	-23.45	Peak	Vertical
2389.97	39.22	32.92	35.16	3.54	40.52	54	-13.48	Average	Vertical
2400.00	54.92	32.92	35.16	3.54	56.22	74	-17.78	Peak	Vertical
2399.97	45.65	32.92	35.16	3.54	46.95	54	-7.05	Average	Vertical

Tx-2462

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
2483.50	47.40	33.06	35.18	3.60	48.88	74	-25.12	Peak	Horizontal
2483.51	37.11	33.08	35.18	3.60	38.61	54	-15.39	Average	Horizontal
2487.24	45.76	33.08	35.18	3.62	47.28	74	-26.72	Peak	Horizontal
2487.26	36.01	33.08	35.18	3.62	37.53	54	-16.47	Average	Horizontal
2483.50	48.57	33.06	35.18	3.60	50.05	74	-23.95	Peak	Vertical
2483.51	37.89	33.08	35.18	3.60	39.39	54	-14.61	Average	Vertical
2487.24	47.19	33.08	35.18	3.62	48.71	74	-25.29	Peak	Vertical
2487.26	37.52	33.08	35.18	3.62	39.04	54	-14.96	Average	Vertical

5.5. Conducted Spurious Emissions and Band Edges Test

5.5.1. Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.5.2. Instruments Setting

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
RB / VB (Emission in restricted band)	100KHz/300KHz
RB / VB (Emission in non-restricted band)	100KHz/300KHz

5.5.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 9kHz to 26.5GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

5.5.4. Test Setup Layout

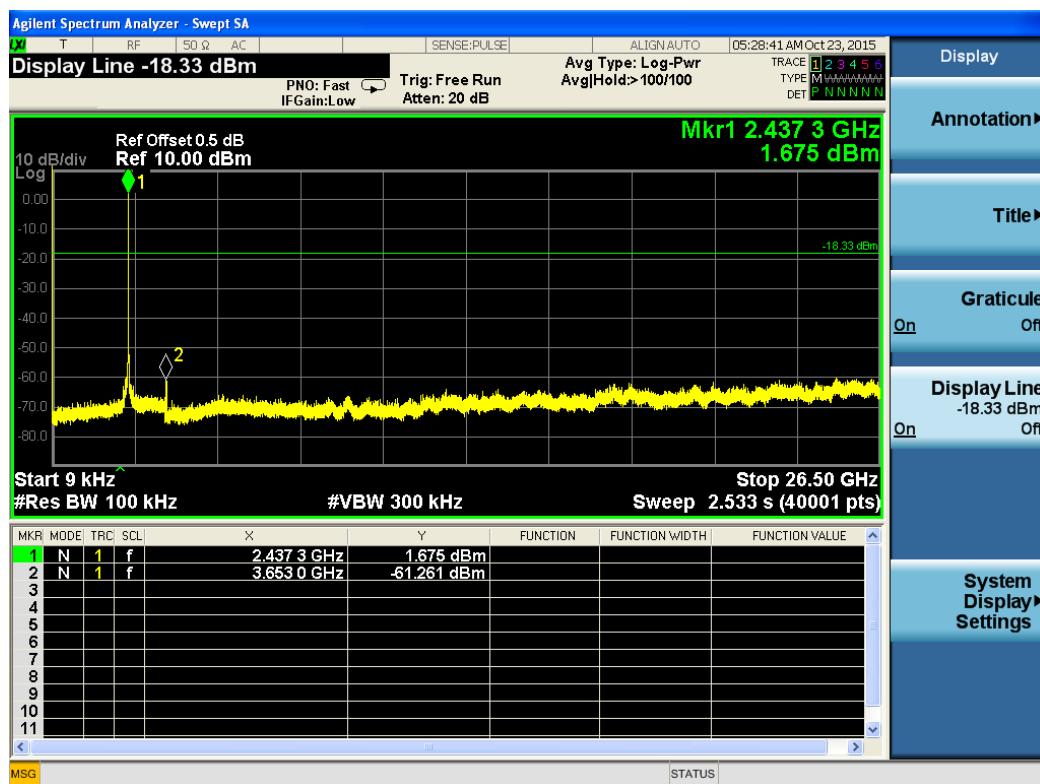
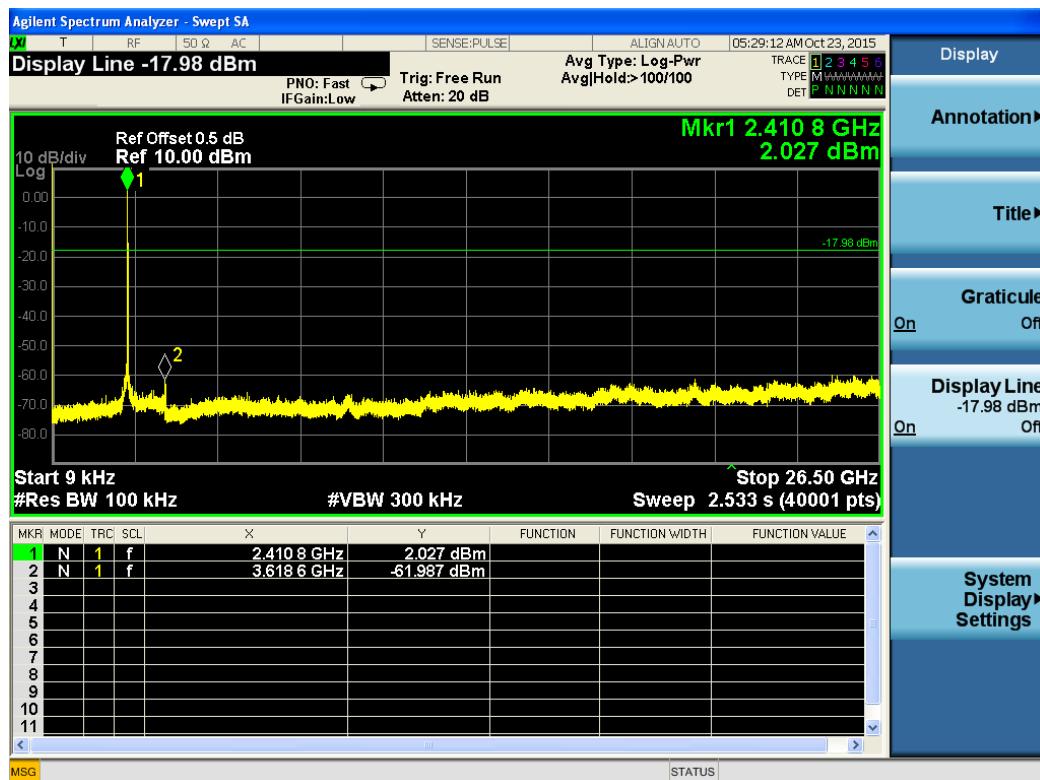
This test setup layout is the same as that shown in section 5.3.4.

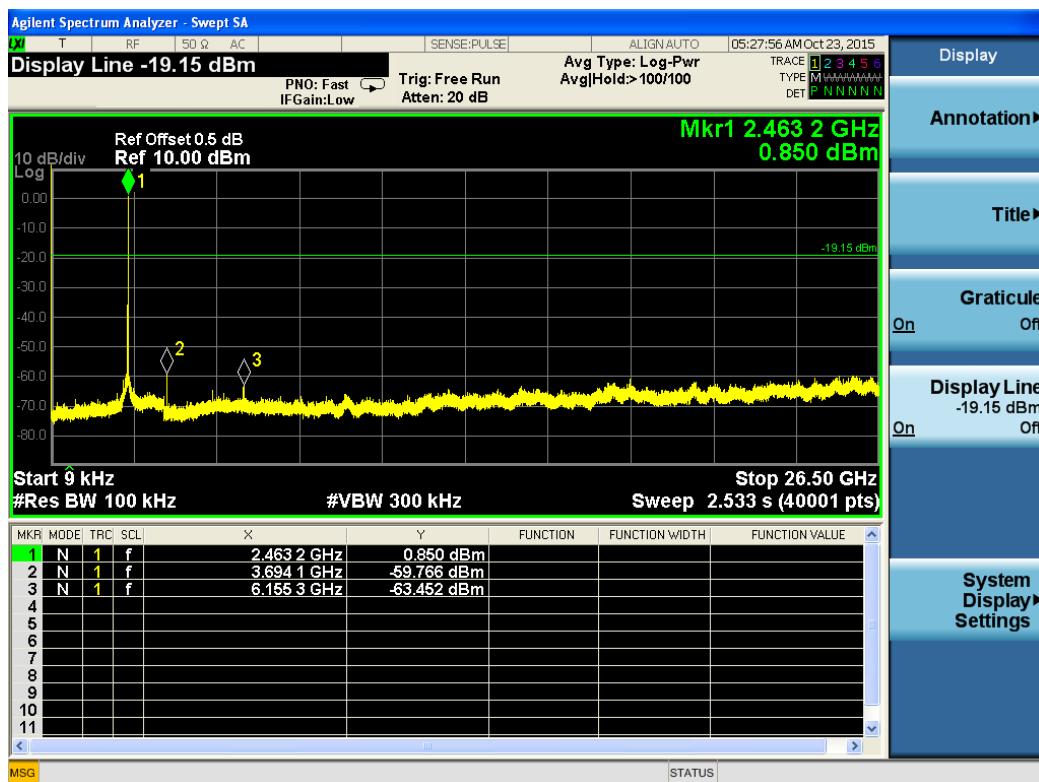
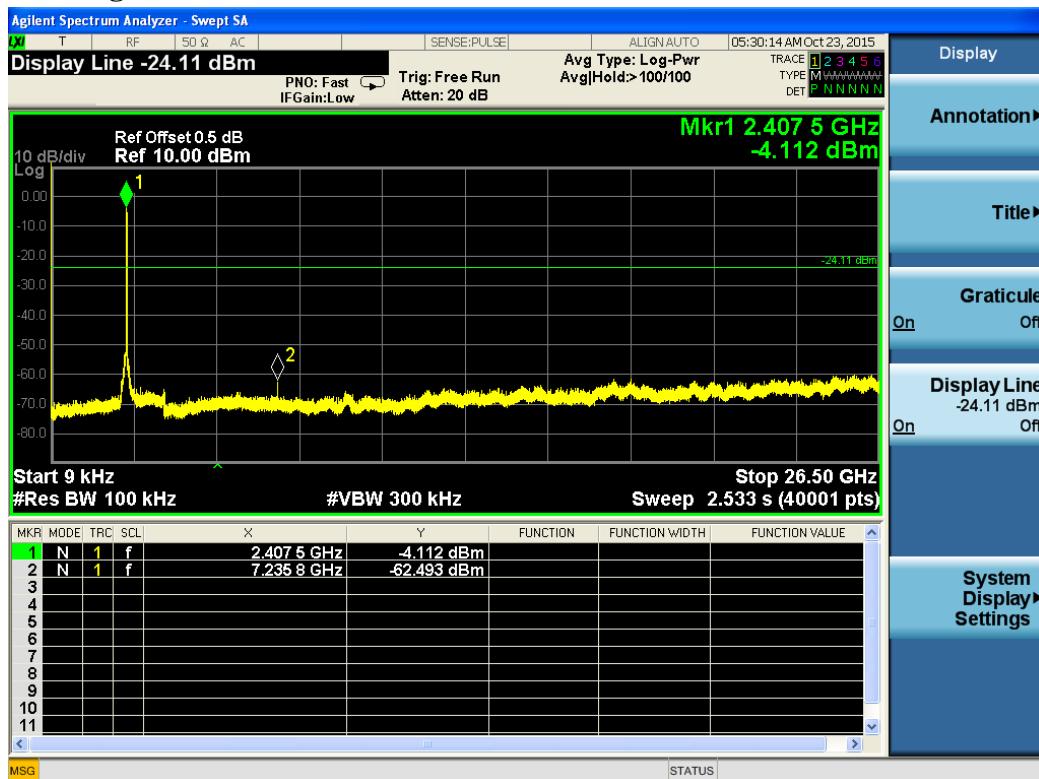
5.5.5. EUT Operation during Test

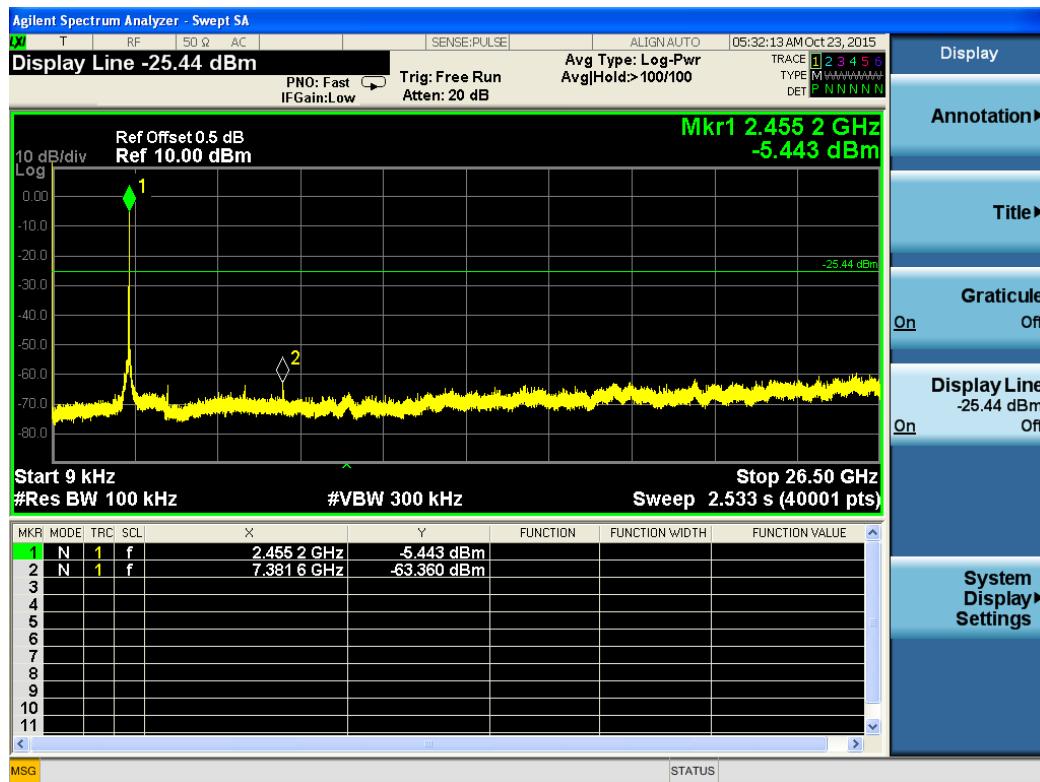
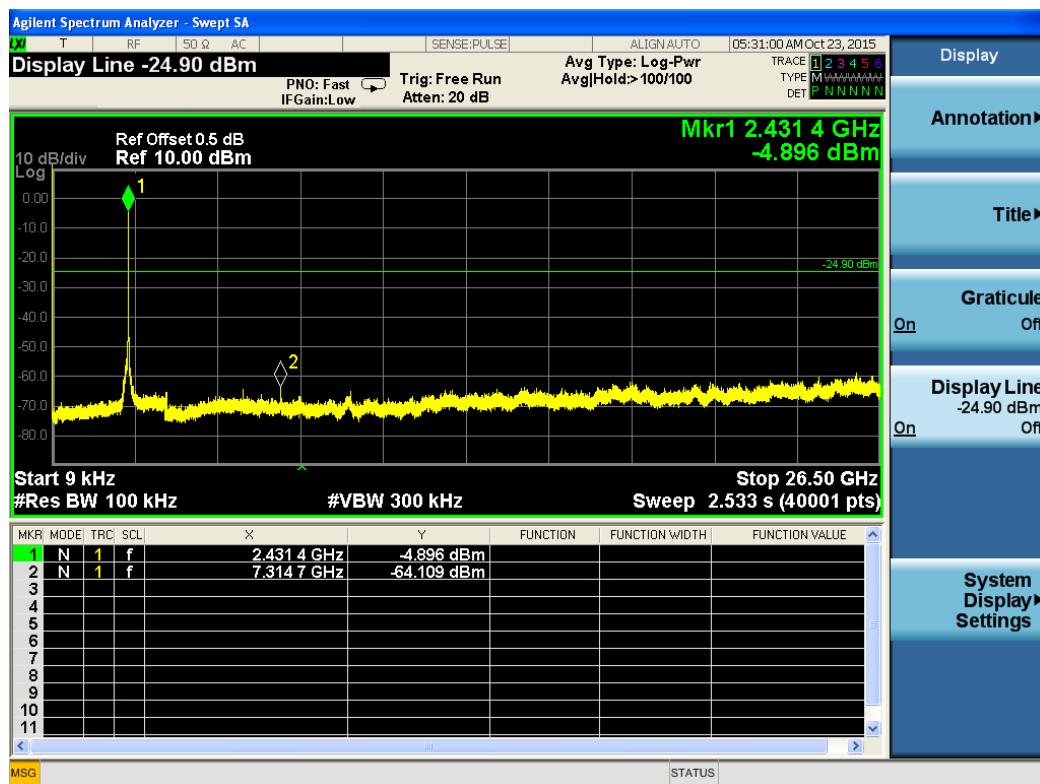
The EUT was programmed to be in continuously transmitting mode.

5.5.6. Test Results of Conducted Spurious Emissions

802.11b

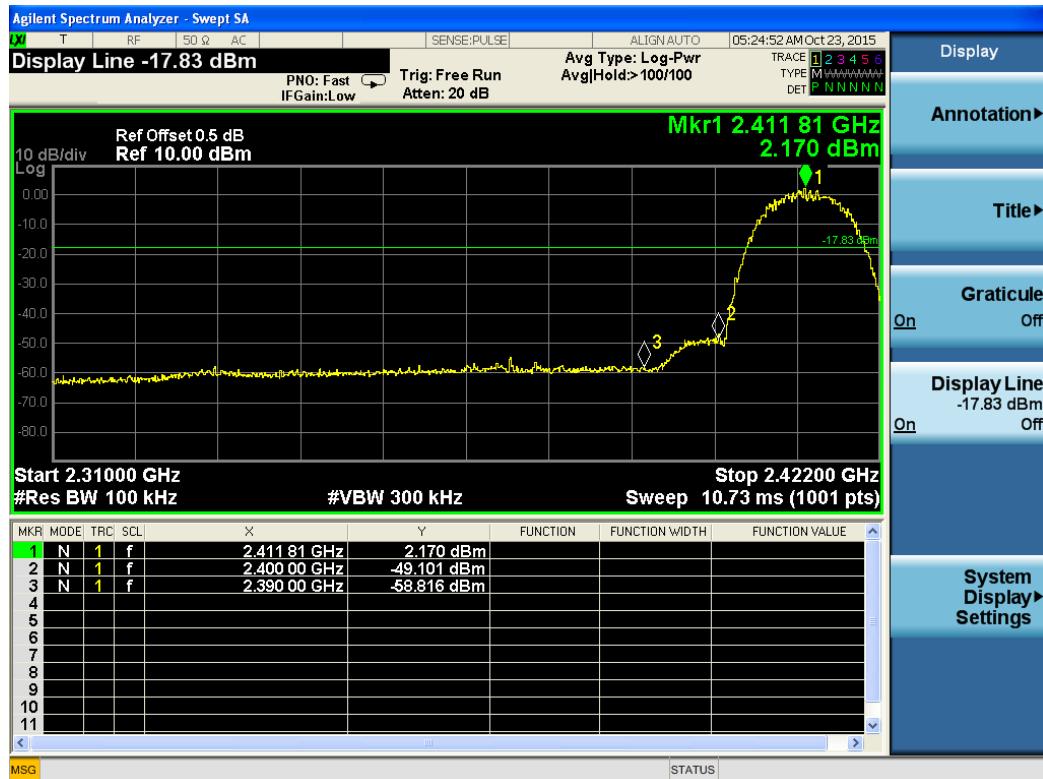


**802.11g**

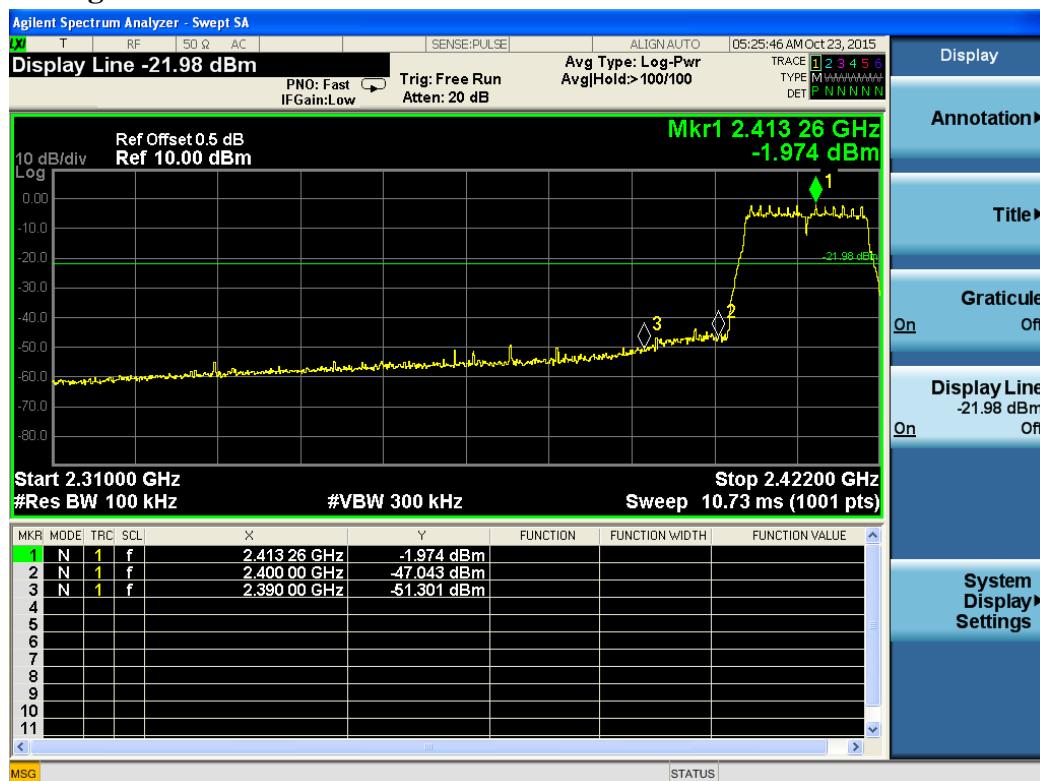


5.5.7. Test Results of Band Edges Test

802.11b



802.11g



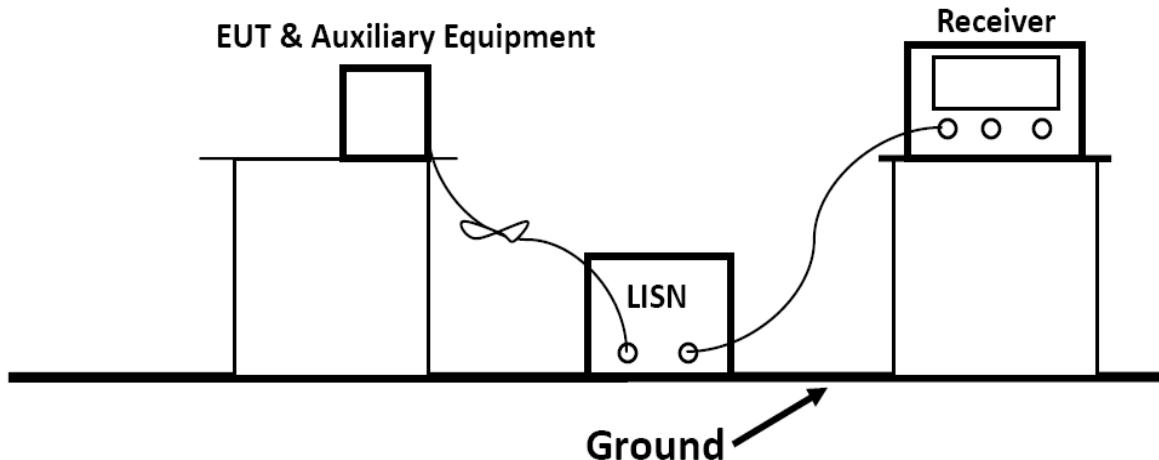
5.6. Power line conducted emissions

5.6.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

5.6.2 Block Diagram of Test Setup

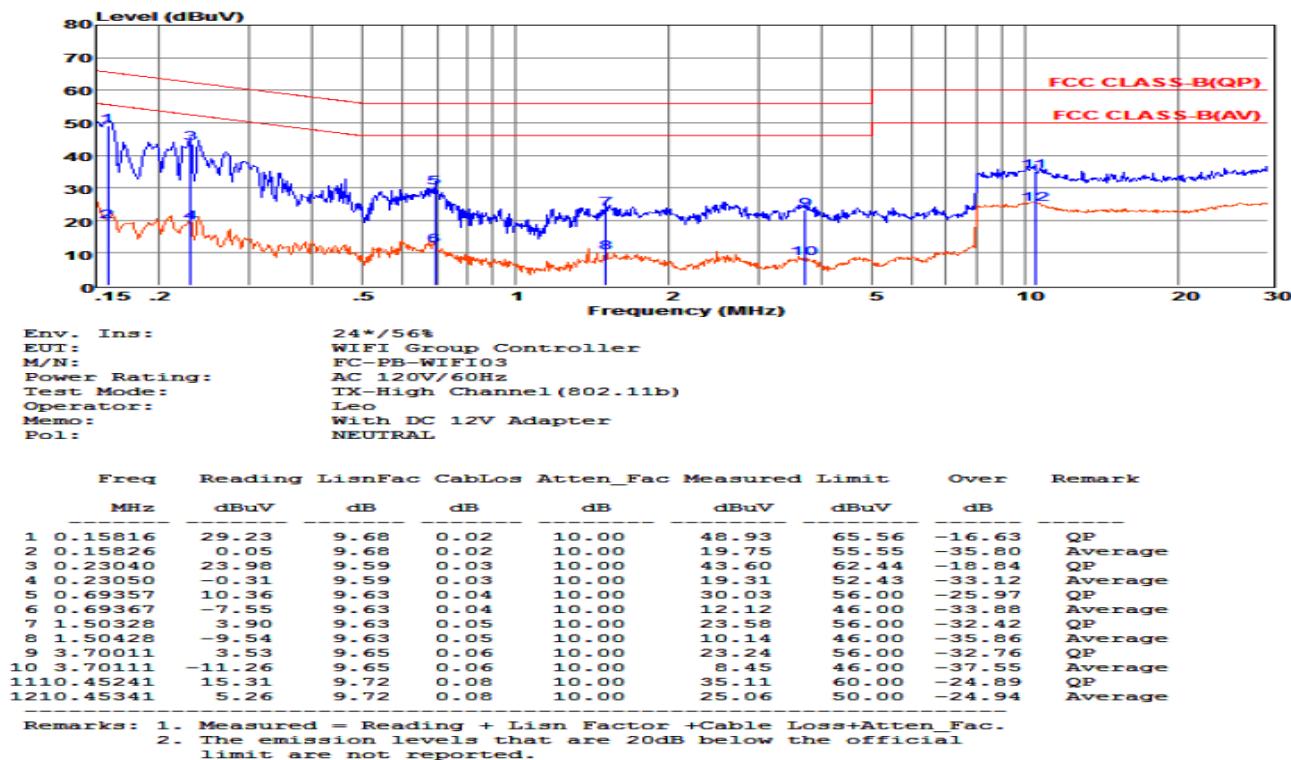
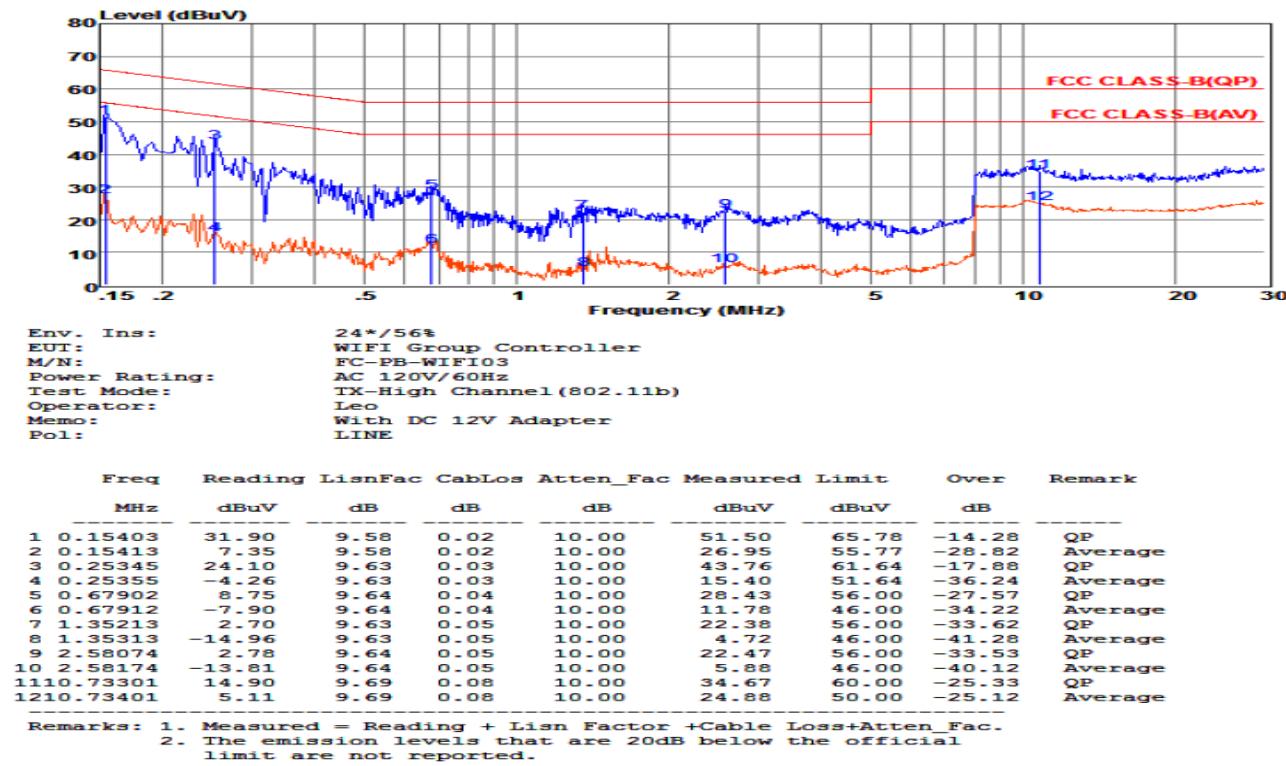


5.6.3 Test Results

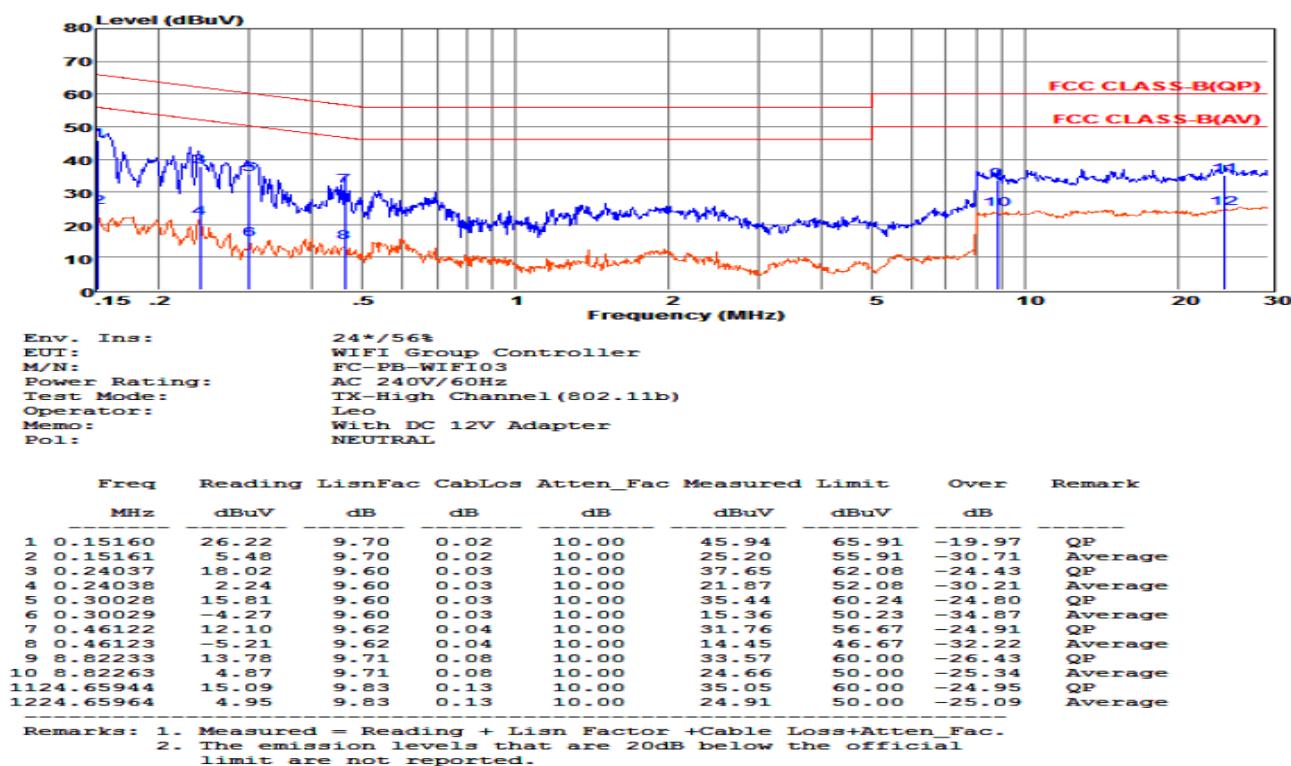
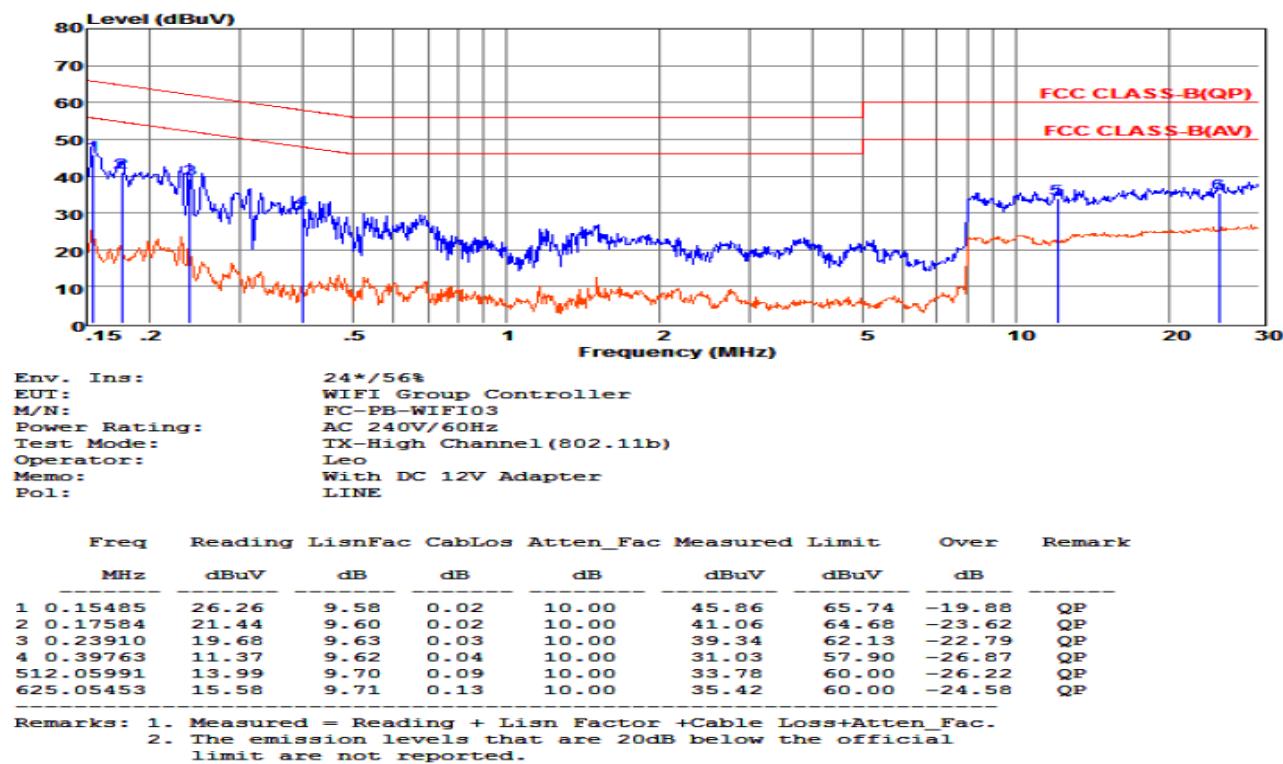
PASS.

The test data please refer to following page.

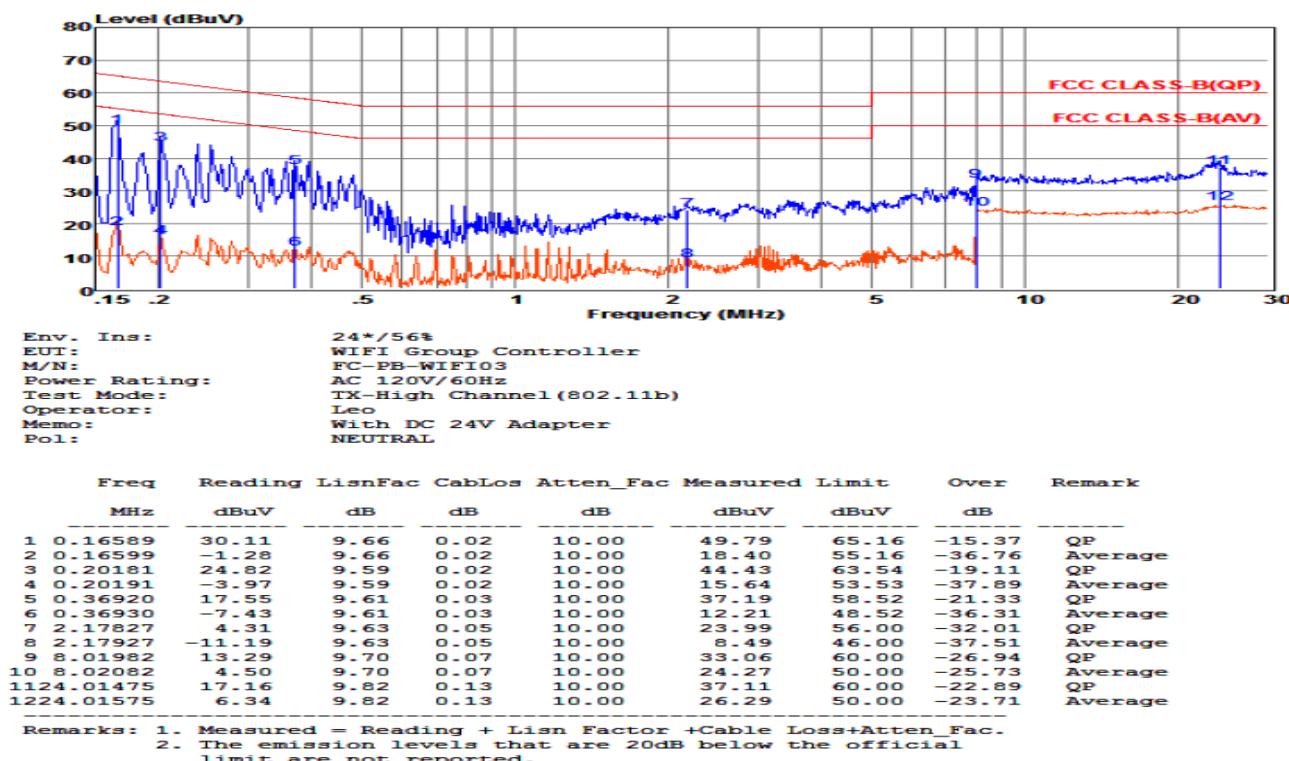
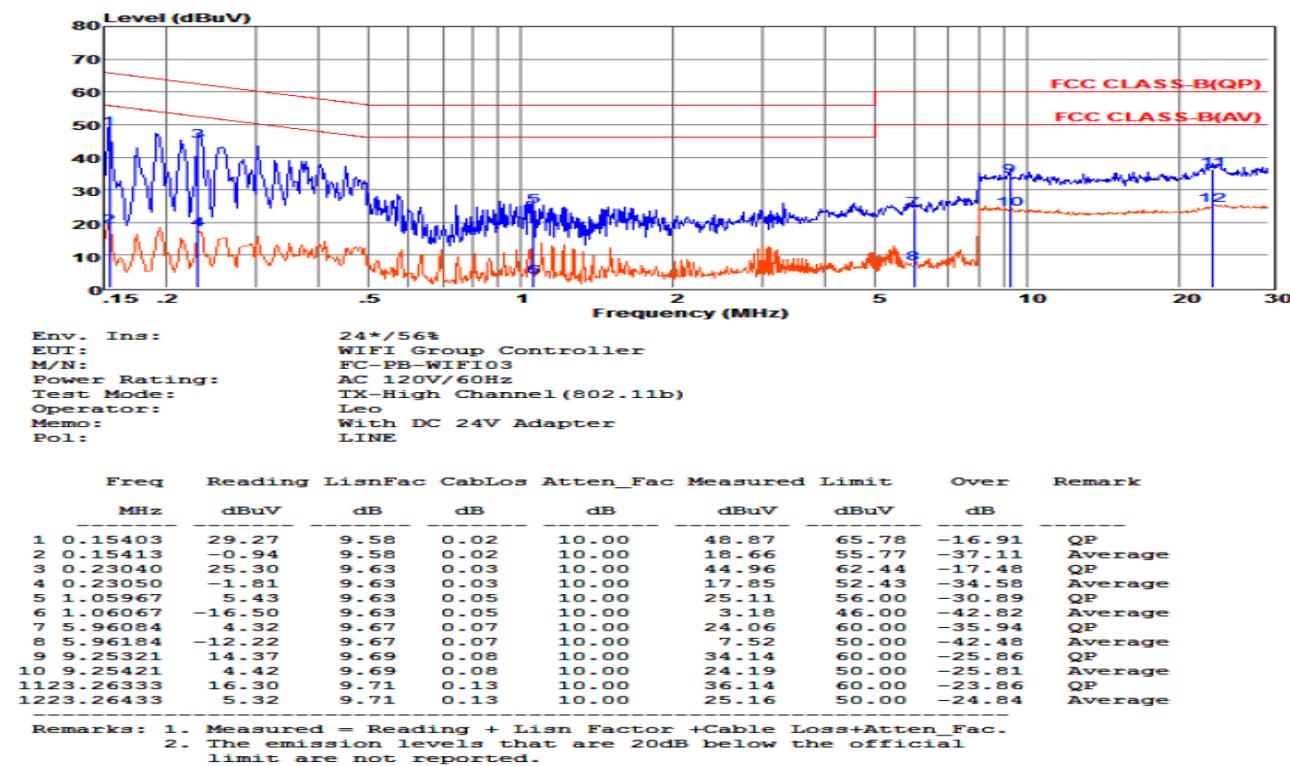
The worst test result for performing with DC 12V Adapter(Input: AC 120V/60Hz) / 802.11b(High Channel)



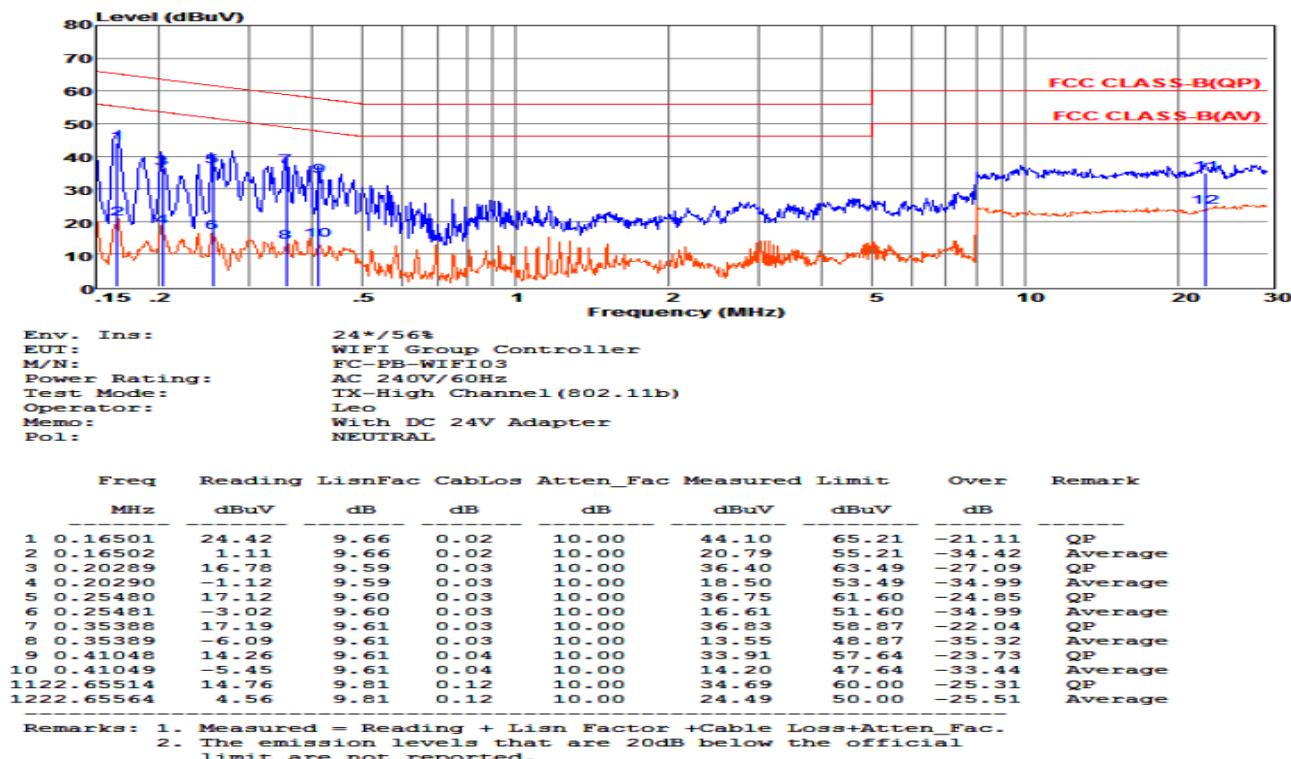
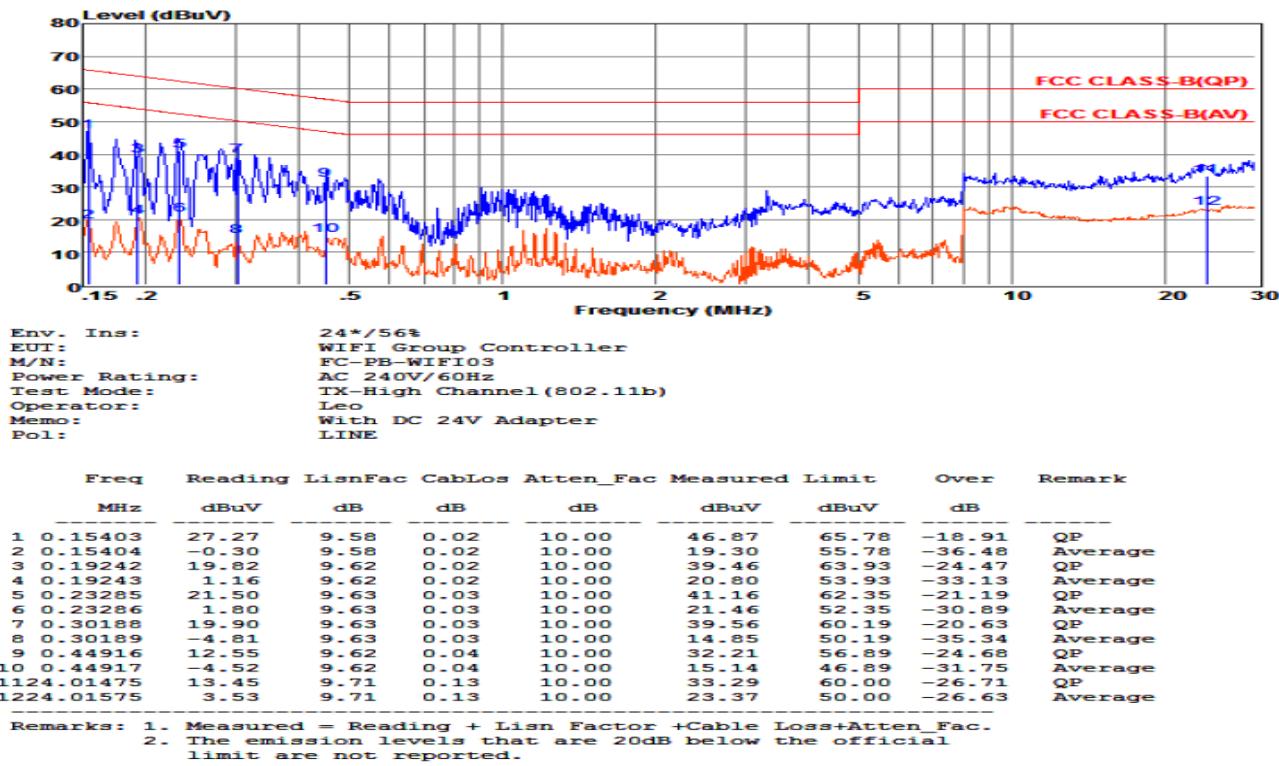
The worst test result for performing with DC 12V Adapter(Input: AC 240V/60Hz) / 802.11b(High Channel)



The worst test result for performing with DC 24V Adapter(Input: AC 120V/60Hz) / 802.11b(High Channel)



The worst test result for performing with DC 24V Adapter(Input: AC 240V/60Hz) / 802.11b(High Channel)



***Note: Pre-scan all mode and recorded the worst case results in this report (802.11b (High Channel)).

5.7. Antenna Requirements

5.7.1. Standard Applicable

According to § 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.7.2. Antenna Connector Construction

The antenna used for transmitting is permanently attached and no consideration of replacement. Please see EUT photo for details.

5.7.3. Results: Compliance.

-----THE END OF REPORT-----