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# FCC Test Report

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Report No.: AGC07088160601FE05

**FCC ID** : 2AF62-AVTEG001  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)  
**BRAND NAME** : Avnet  
**MODEL NAME** : AES-BCM-M1  
**CLIENT** : Avnet Inc  
**DATE OF ISSUE** : July.02, 2016  
**STANDARD(S)** : FCC Part 15.247  
**TEST PROCEDURE(S)** : ANSI C63.10: 2013  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	July.02, 2016	Valid	Original Report

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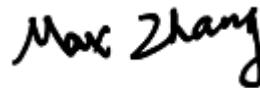
## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	Avnet Inc
<b>Address</b>	2211 S 47th St, Phoenix, Arizona, United States, 85034
<b>Manufacturer</b>	Egoman Digital Corp.
<b>Address</b>	Room 404, Block A, Building 1, Tian-An Cyber Park, Longgang District, Shenzhen, 518172, China
<b>Product Designation</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)
<b>Brand Name</b>	Avnet
<b>Test Model</b>	AES-BCM-M1
<b>Date of test</b>	June.12, 2016 to June.30, 2016
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BGN/RF

We hereby certify that:

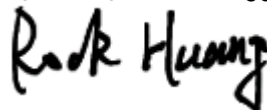
The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Tested by



Max Zhang(Zhang Yi) July.02, 2016

Reviewed by



Rock Huang(Huang Dinglue) July.02, 2016

Approved by



Solger Zhang(Zhang Hongyi)  
Authorized Officer July.02, 2016

## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as “WIFI and BT Modular”. It is designed by way of utilizing the DSSS and OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.412 GHz~2.462GHz
<b>Output Power</b>	IEEE 802.11b:15.65dBm; IEEE 802.11g:14.33dBm; IEEE 802.11n(20):11.89dBm
<b>Modulation</b>	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM)
<b>Number of channels</b>	11
<b>Hardware Version</b>	AES-BCM4343W-M1-G
<b>Software Version</b>	V1.0
<b>Antenna Designation</b>	PCB Antenna
<b>Antenna Gain</b>	Antenna A: 3dBi Antenna B: 3dBi
<b>Power Supply</b>	DC 5V by Micro-USB port

### 2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	1	2412 MHZ
	2	2417 MHZ
	3	2422 MHZ
	4	2427 MHZ
	5	2432 MHZ
	6	2437 MHZ
	7	2442 MHZ
	8	2447 MHZ
	9	2452 MHZ
	10	2457 MHZ
	11	2462 MHZ

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11

### 2.3. IEEE 802.11N MODULATION SCHEME

MCS Index	Nss	Modulation	R	NBPS	NCBPS	NDBPS	Data rate(Mbps)
					800nsGI		
					20MHz	20MHz	20MHz
0	1	BPSK	1/2	1	52	26	6.5
1	1	QPSK	1/2	2	104	52	13.0
2	1	QPSK	3/4	2	104	78	19.5
3	1	16-QAM	1/2	4	208	104	26.0
4	1	16-QAM	3/4	4	208	156	39.0
5	1	64-QAM	2/3	6	312	208	52.0
6	1	64-QAM	3/4	6	312	234	58.5
7	1	64-QAM	5/6	6	312	260	65.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPS	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval

### 2.4. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AF62-AVTEG001** filing to comply with the FCC Part 15 requirements.

### 2.5. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

## **2.6. SPECIAL ACCESSORIES**

Refer to section 5.2.

## **2.7. EQUIPMENT MODIFICATIONS**

Not available for this EUT intended for grant.



### 3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 3.18dB

Radiated measurement: +/- 3.91dB

### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal operating

Note:

Transmit by 802.11b with Data rate (1/2/5.5/11)

Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)

Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65)

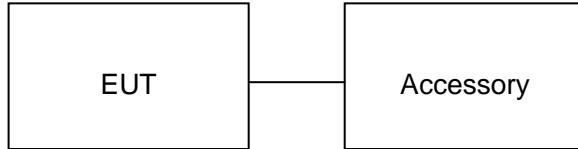
**Note:**

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure:



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	AES-BCM-M1	2AF62-AVTEG001	EUT
2	PC	DELL	PP10L	Support
3	PC adapter	DELL	AA22850	Support
4	Control modular	Avnet	AES-BCM4343W-x-G	Support

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Output Power	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247	Conducted Spurious Emission	Compliant
§15.247	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

## 6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location	Building D, Baoding Technology Park, Guangming Road2, Dongcheng District, Dongguan, Guangdong, China.
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014.

### ALL TEST EQUIPMENT LIST

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2015	July 3, 2016
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2015	July 3, 2016
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2015	July 3, 2016
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 3, 2016	June 2, 2017
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 3, 2016	June 2, 2017
Spectrum analyzer	Agilent	E4407B	MY46185649	June 3, 2016	June 2, 2017
Power Sensor	Agilent	U2021XA	MY55050474	Oct.21, 2015	Oct.20, 2016
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 3, 2016	June 2, 2017
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 3, 2016	June 2, 2017

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2015	July 3, 2016
Artificial Mains Network	Narda	L2-16B	000WX31025	July 8, 2015	July 7, 2016
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 8, 2015	July 7, 2016
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2015	July 3, 2016
Shielded Room	CHENGYU	843	PTS-002	June 3, 2016	June 2, 2017

## 7. OUTPUT POWER

### 7.1. MEASUREMENT PROCEDURE

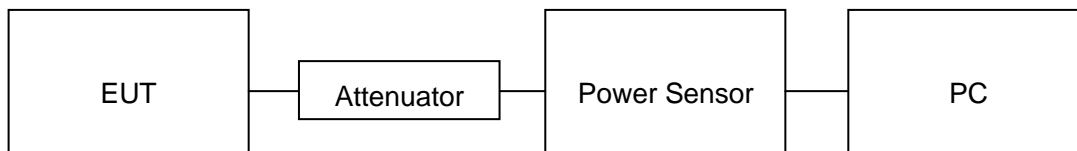
For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

**Note :** The EUT was tested according to ANSI C63.10 for compliance to FCC 47CFR 15.247 requirements.

### 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

#### AVERAGE POWER SETUP



### 7.3. LIMITS AND MEASUREMENT RESULT

<b>TEST ITEM</b>	OUTPUT POWER
<b>TEST MODE</b>	802.11b with data rate 1

Frequency (GHz)	Average Power Chain A (dBm)	Average Power Chain B (dBm)	Average Power Total (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	12.92	12.35	15.65	30	Pass
2.437	12.84	12.42	15.65	30	Pass
2.462	12.54	12.12	15.35	30	Pass

<b>TEST ITEM</b>	OUTPUT POWER
<b>TEST MODE</b>	802.11g with data rate 6

Frequency (GHz)	Average Power Chain A (dBm)	Average Power Chain B (dBm)	Average Power Total (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	11.52	11.12	14.33	30	Pass
2.437	11.34	11.02	14.19	30	Pass
2.462	11.25	10.98	14.13	30	Pass

<b>TEST ITEM</b>	OUTPUT POWER
<b>TEST MODE</b>	802.11n 20 with data rate 6.5

Frequency (GHz)	Average Power Chain A (dBm)	Average Power Chain B (dBm)	Average Power Total (dBm)	Applicable Limits (dBm)	Pass or Fail
2.412	9.02	8.74	11.89	30	Pass
2.437	8.92	8.42	11.69	30	Pass
2.462	8.74	8.34	11.55	30	Pass

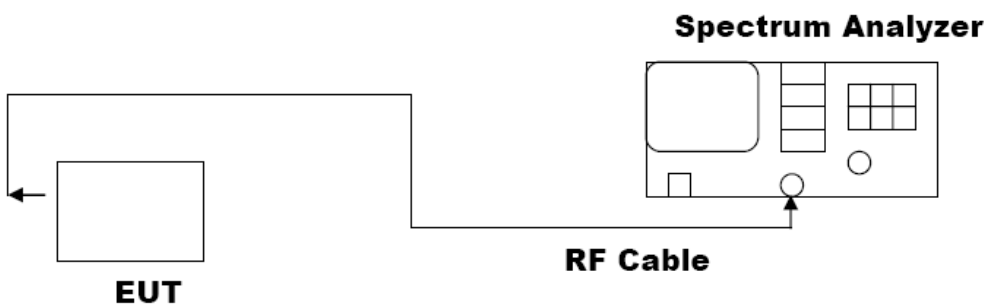
## 8. 6 DB BANDWIDTH

### 8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port 1(antenna A) to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq$ 3 $\times$ RBW.
4. Set SPA Trace 1 Max hold, then View.
5. Repeat test from step 1 to step 4 for RF output port 2(antenna B).

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC 47CFR 15.247 requirements.

### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



### 8.3. LIMITS AND MEASUREMENT RESULTS

<b>TEST ITEM</b>	6DB BANDWIDTH
<b>TEST MODE</b>	802.11b with data rate 11

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	Low Channel	9.573	PASS
	Middle Channel	8.830	PASS
	High Channel	9.220	PASS

<b>TEST ITEM</b>	6DB BANDWIDTH
<b>TEST MODE</b>	802.11g with data rate 54

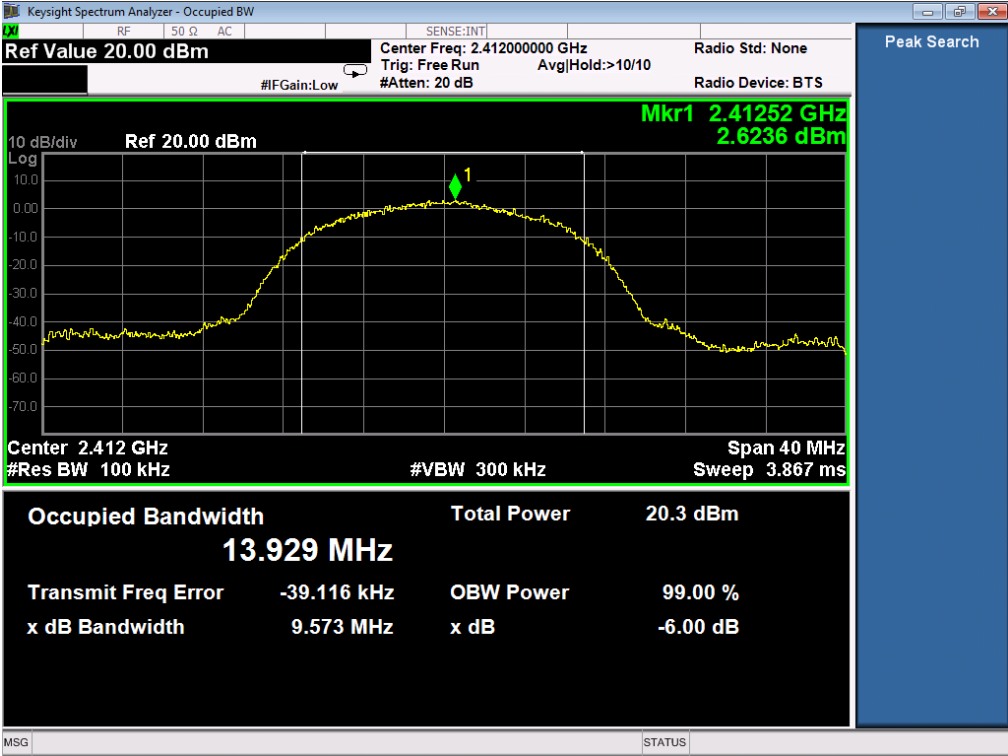
LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	Low Channel	15.70	PASS
	Middle Channel	15.48	PASS
	High Channel	16.00	PASS

<b>TEST ITEM</b>	6DB BANDWIDTH
<b>TEST MODE</b>	802.11n 20 with data rate 65

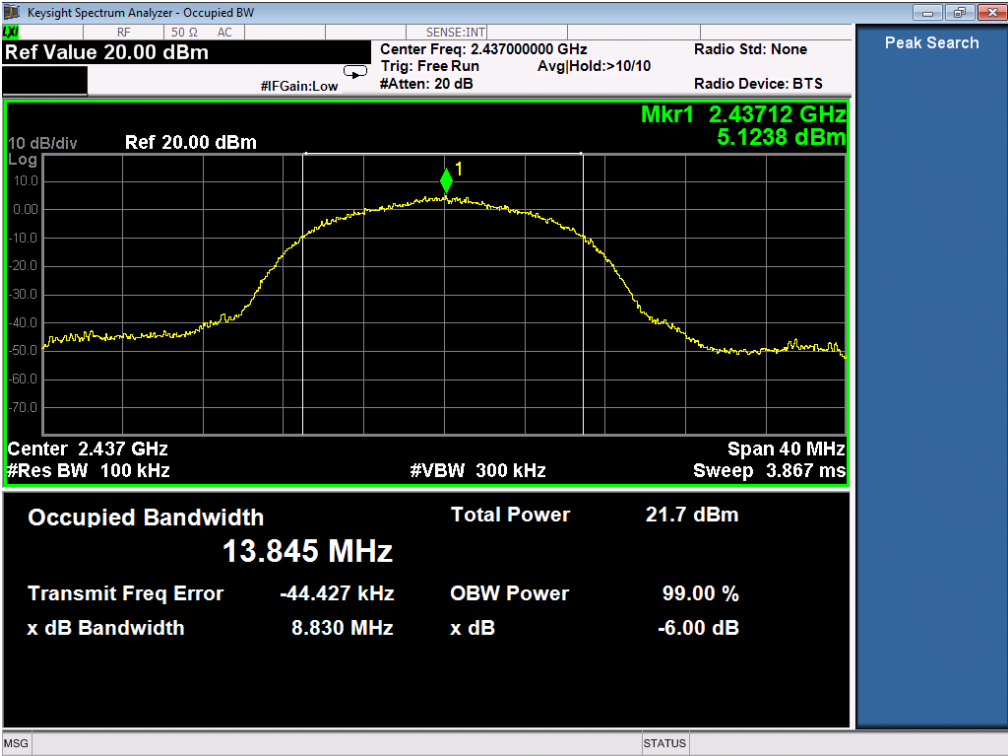
LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	Low Channel	15.43	PASS
	Middle Channel	15.17	PASS
	High Channel	15.16	PASS

Note : Two transmit antennas had been tested, the antenna A was the worst case and record in the test report.

**802.11b TEST RESULT**  
**TEST PLOT OF BANDWIDTH FOR LOW CHANNEL**

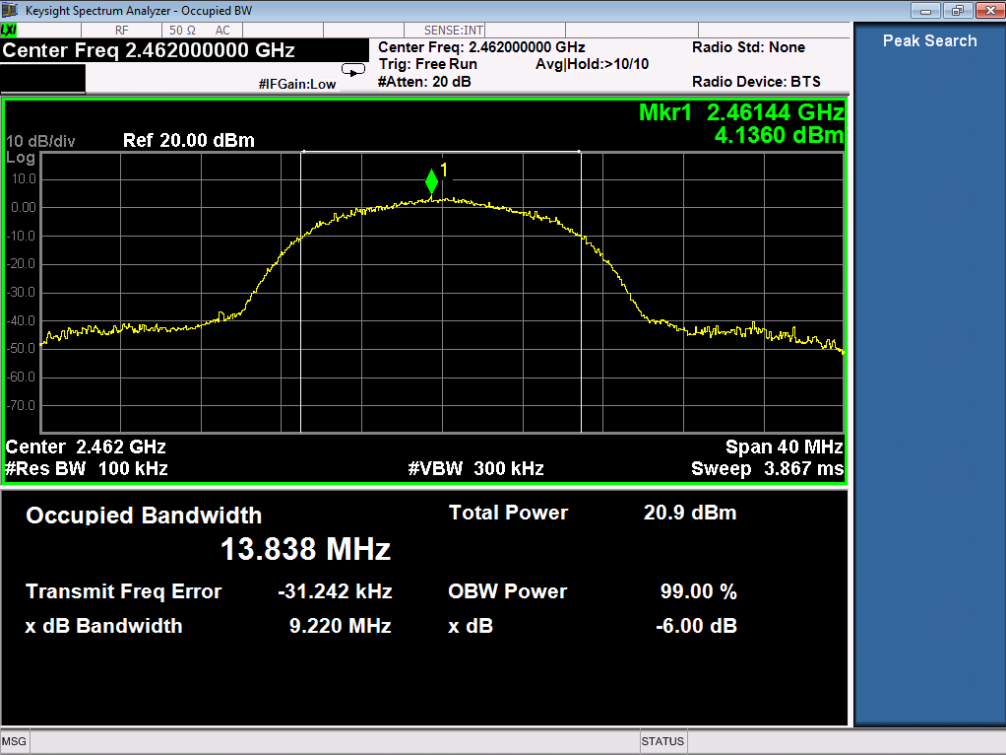


**TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL**



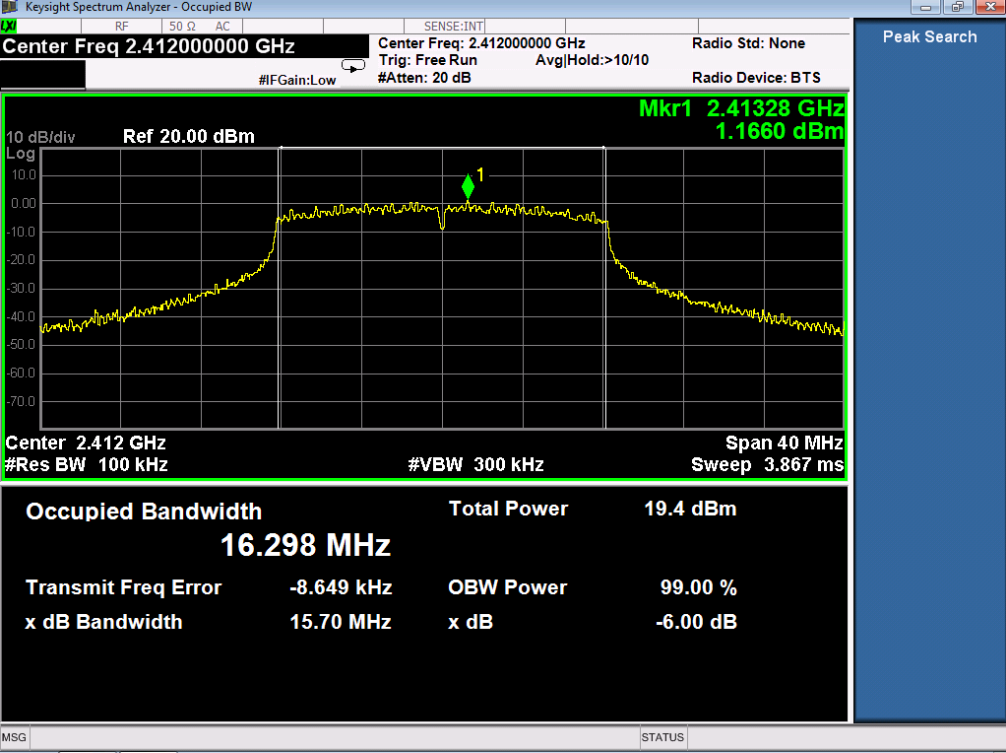


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

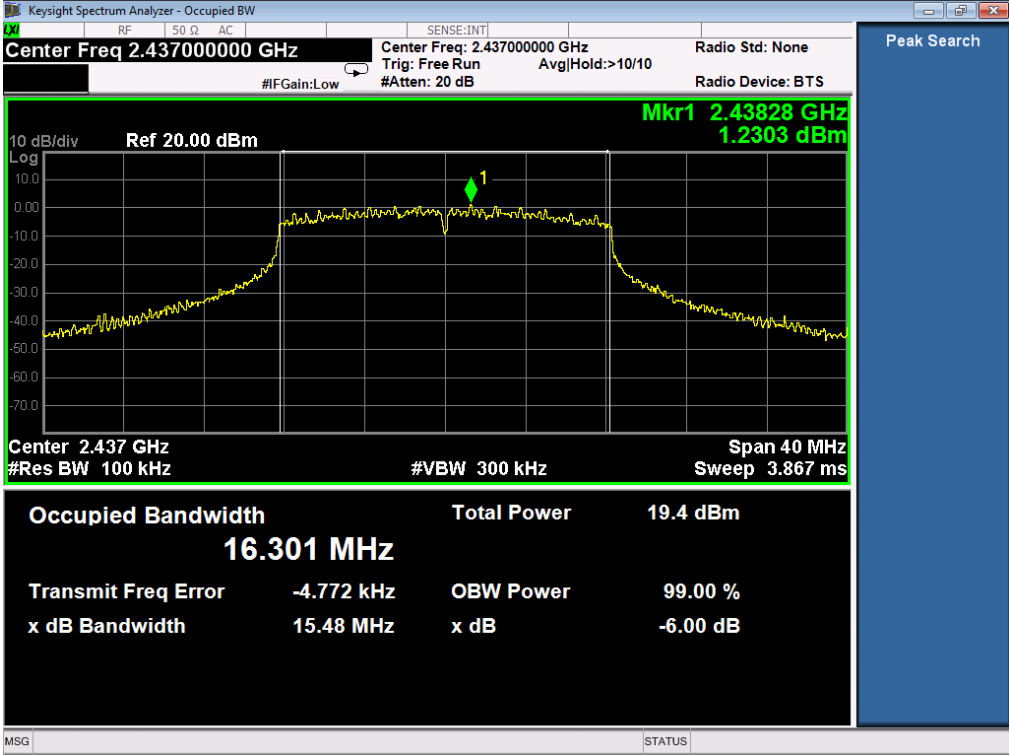


802.11g TEST RESULT

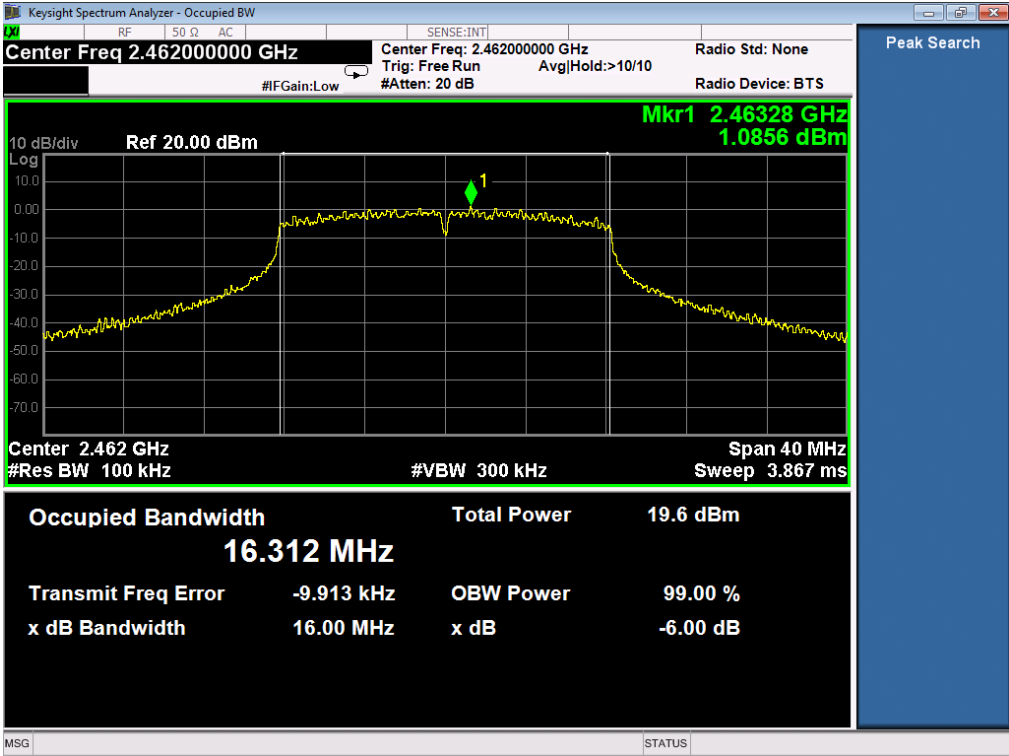
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



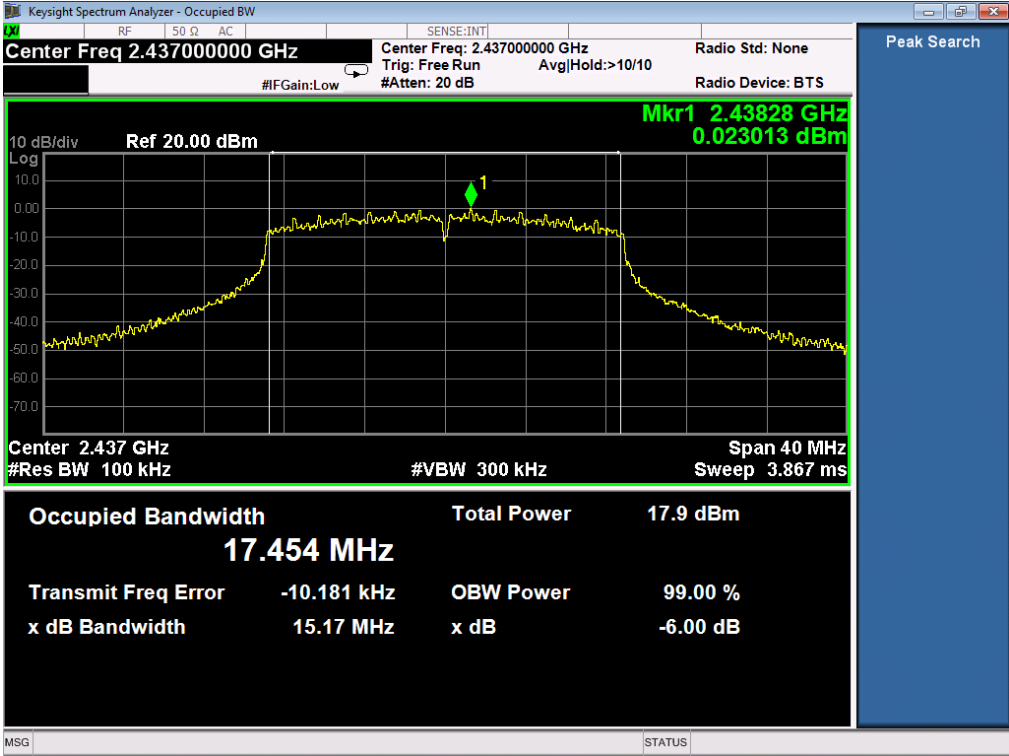
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



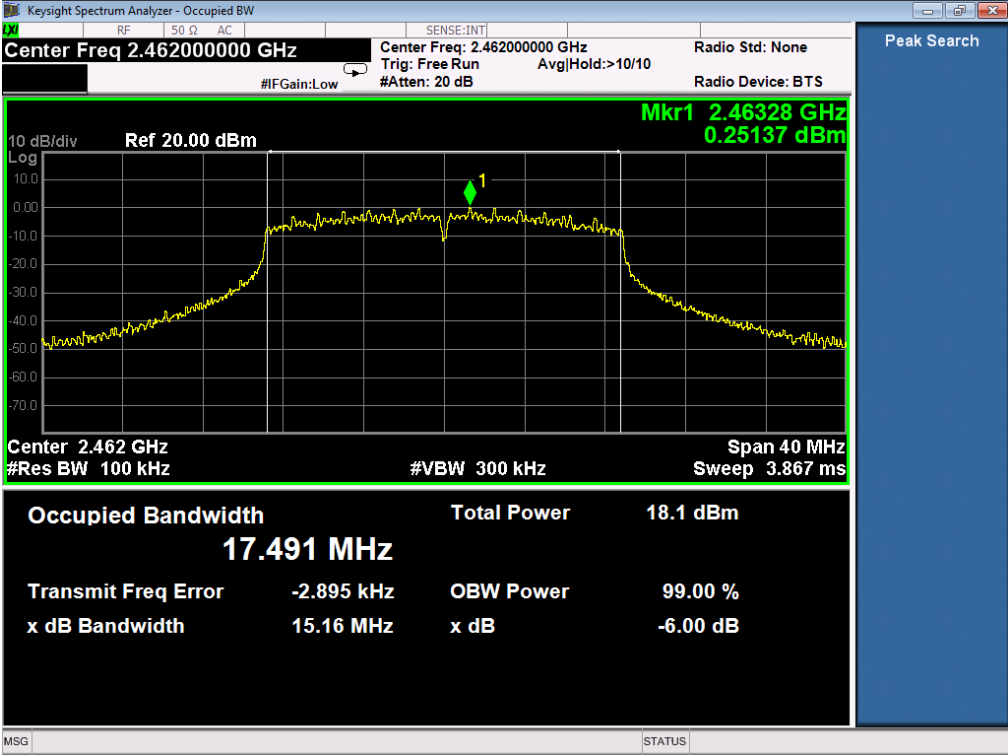
**802.11n (20) TEST RESULT**  
**TEST PLOT OF BANDWIDTH FOR LOW CHANNEL**



**TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL**



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



## 9. CONDUCTED SPURIOUS EMISSION

### 9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port 1(antenna A) to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.
4. Repeat test from step 1 to step 3 for RF output port 2(antenna B).

**Note:** The EUT was tested according to ANSI C63.10 for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW > RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW > RBW) are conform to the requirement.

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

### 9.3. MEASUREMENT EQUIPMENT USED

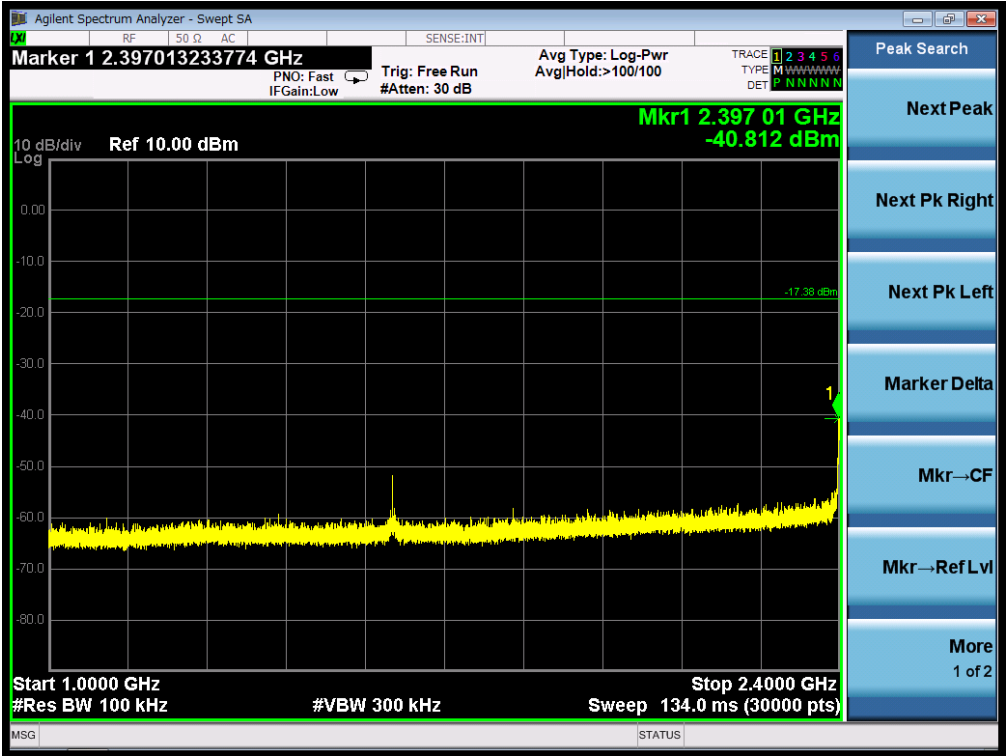
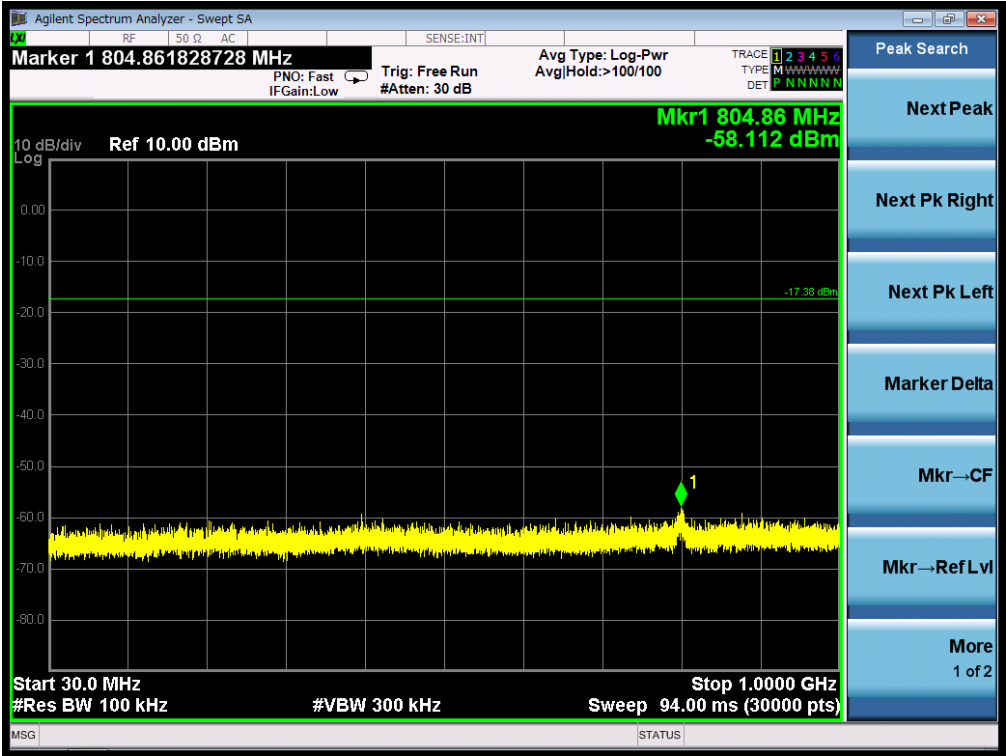
The same as described in section 6.

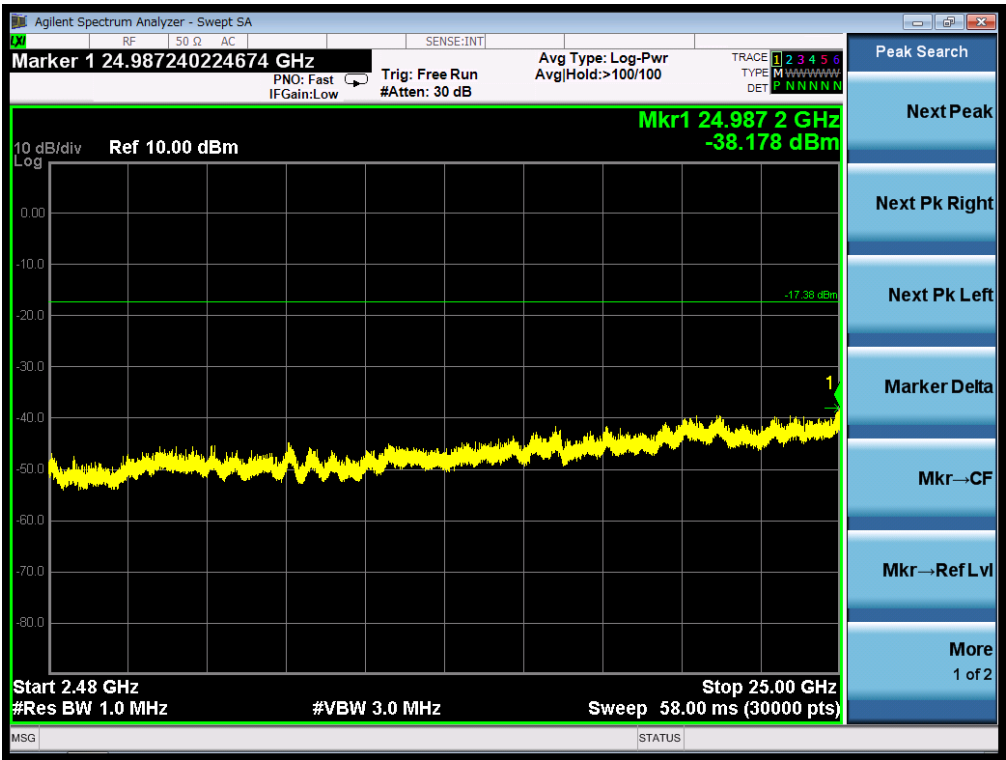
### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation 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)	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

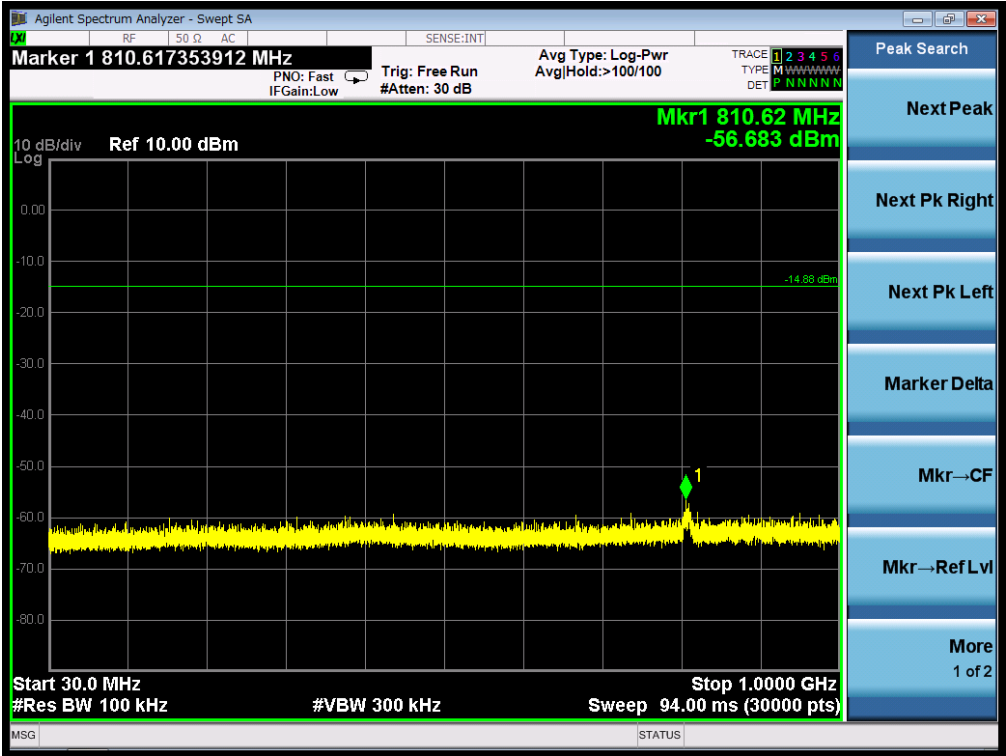
Note: The -20dBc limit line is calculated by the marker point of the bandwidth test plot.

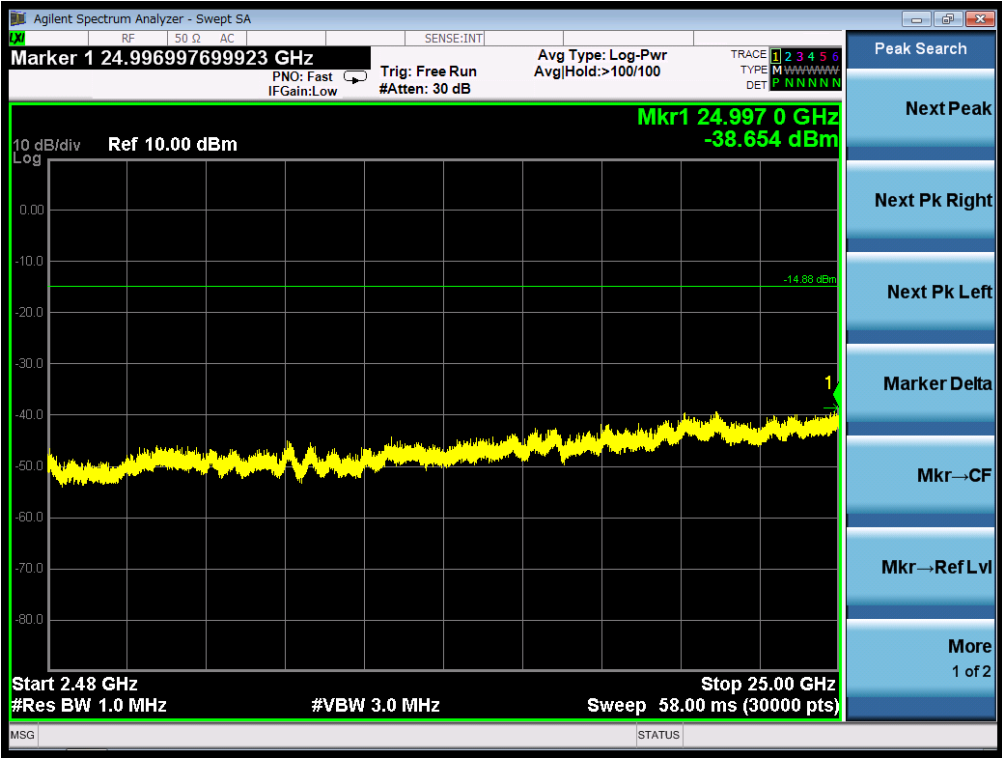
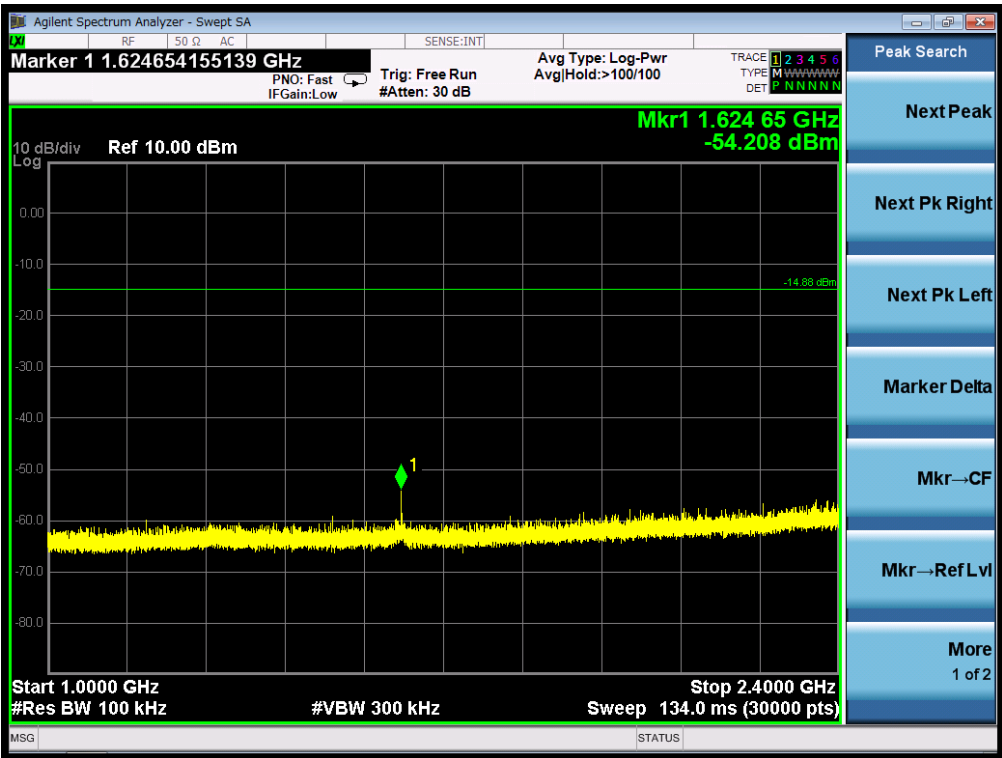
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE  
OF 802.11b FOR MODULATION IN LOW CHANNEL





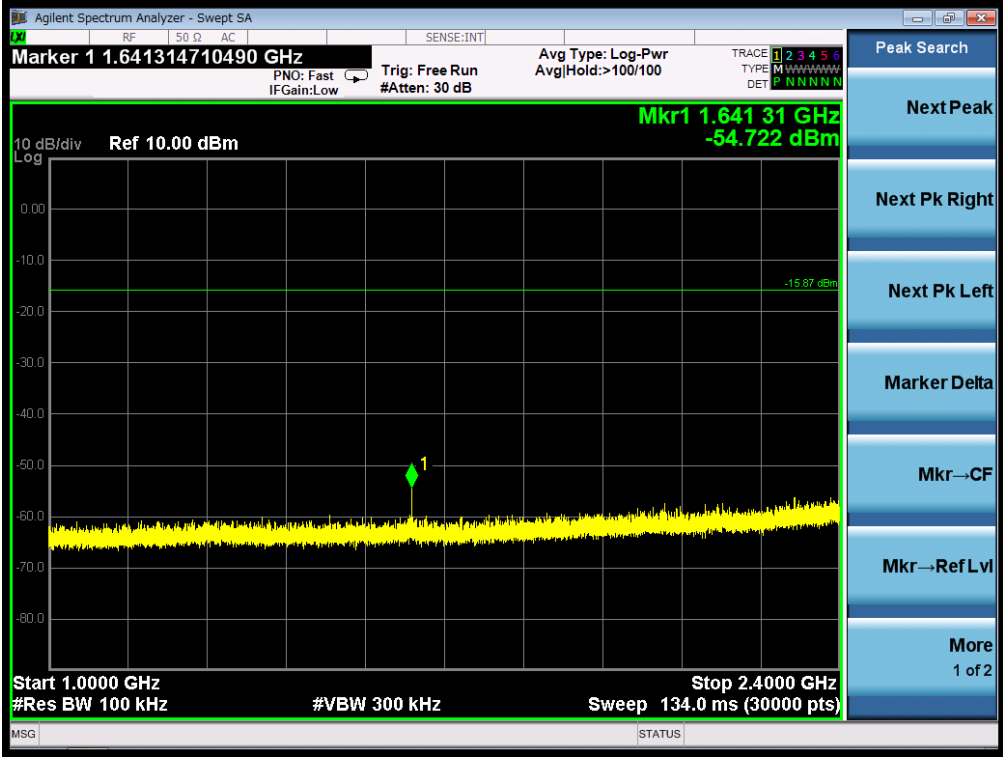
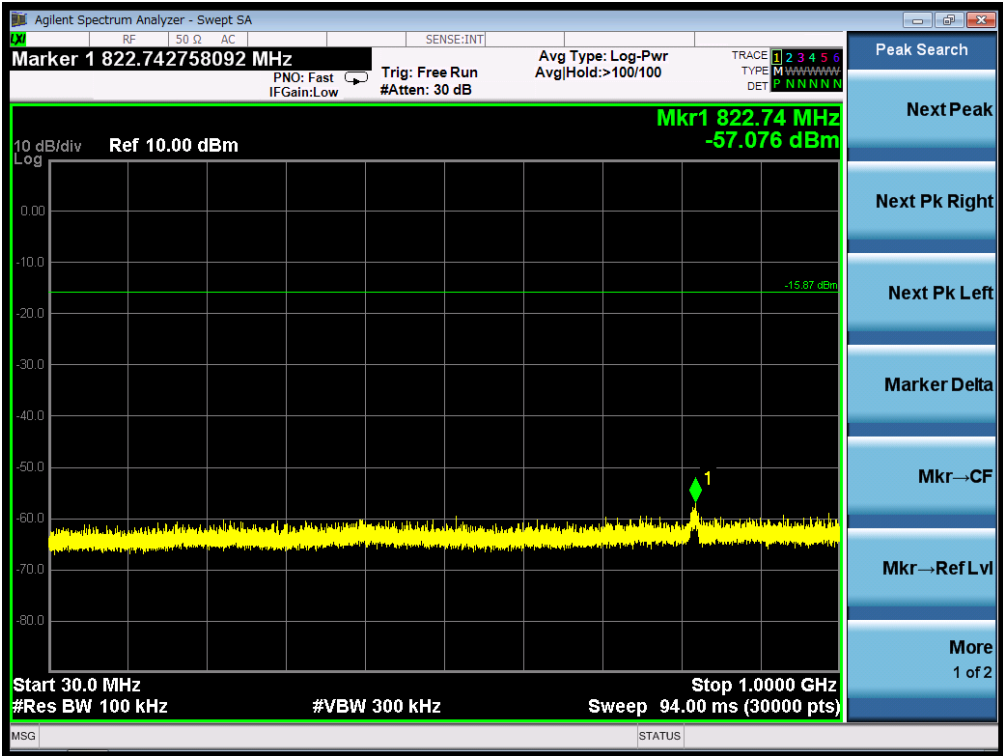
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE OF 802.11b FOR MODULATION IN MIDDLE CHANNEL

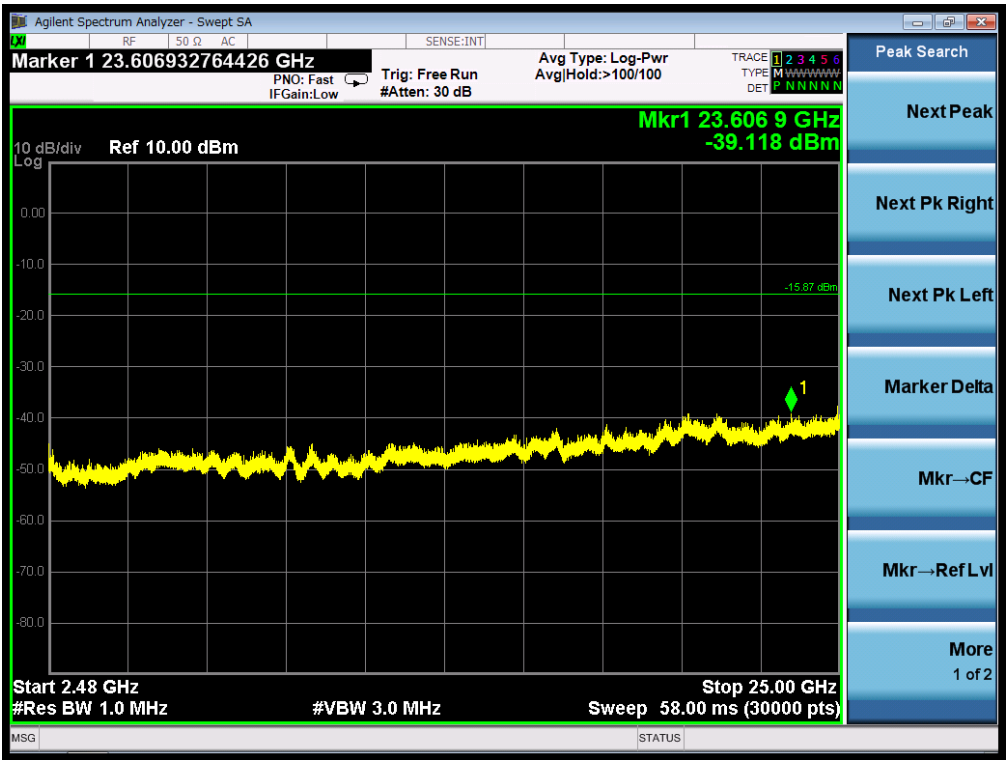




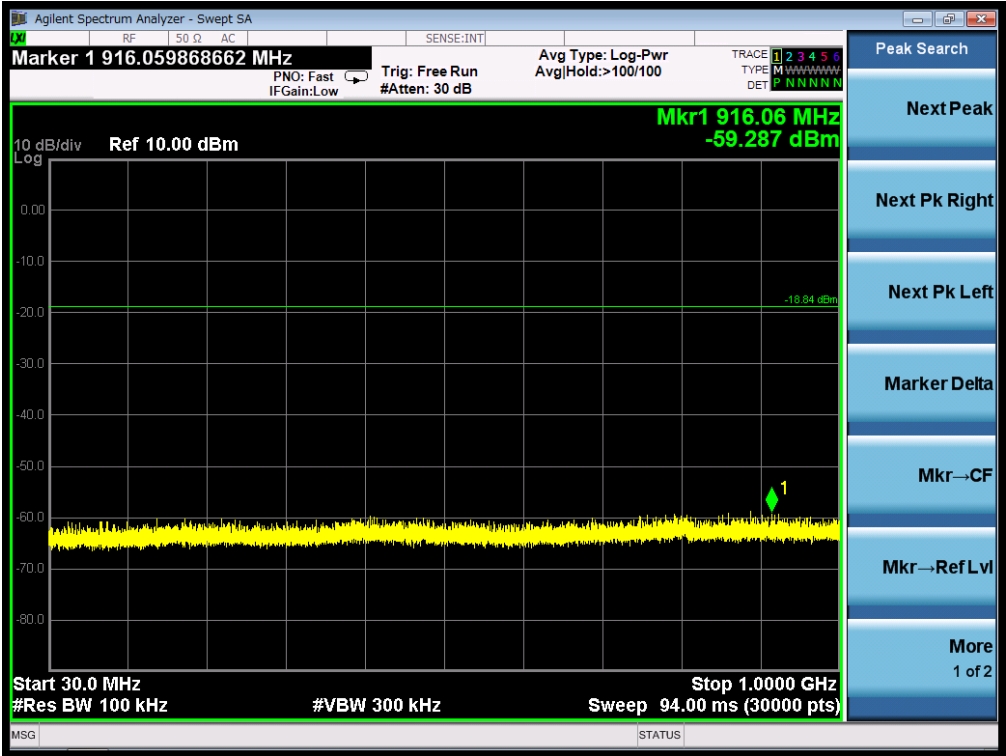


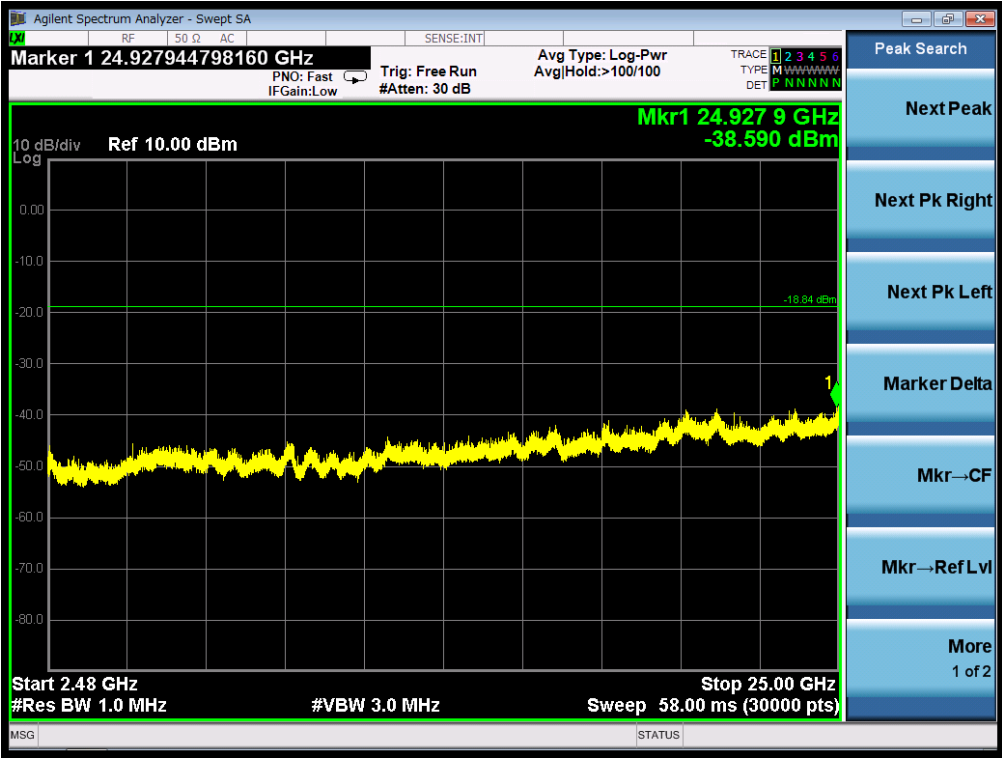
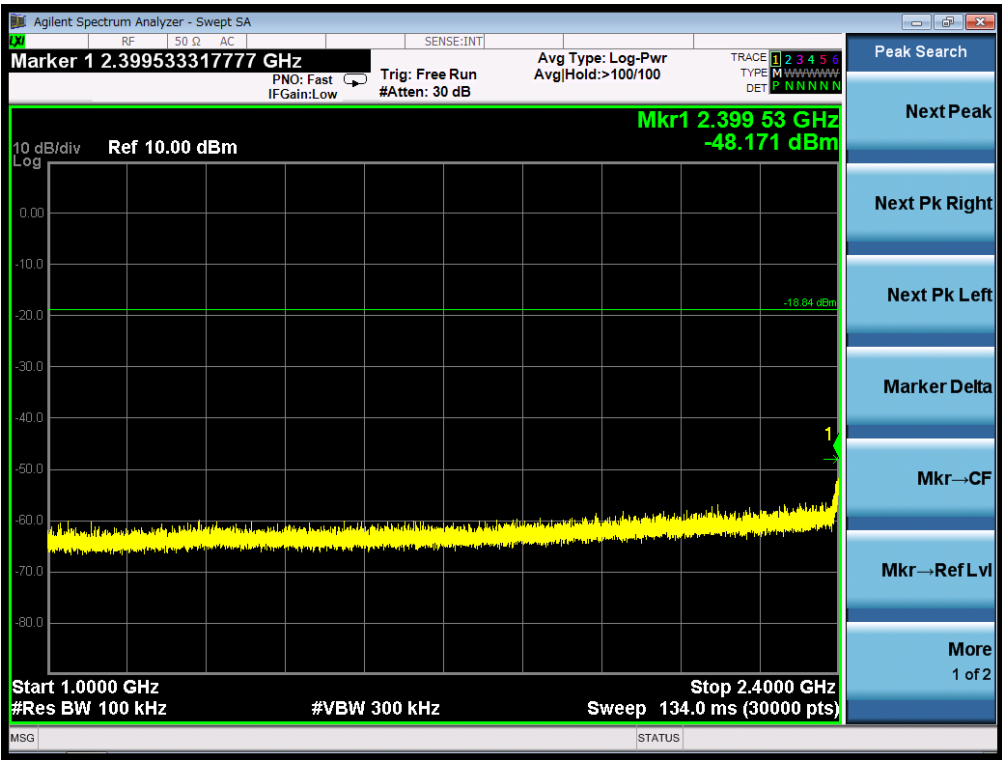
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE  
OF 802.11b FOR MODULATION IN HIGH CHANNEL



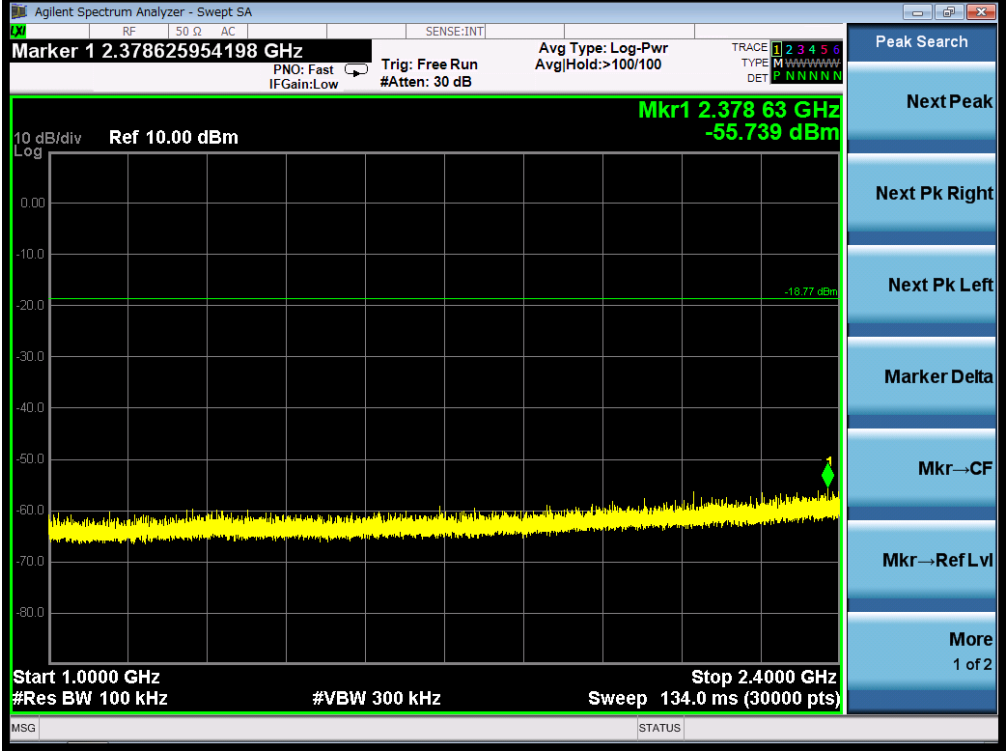
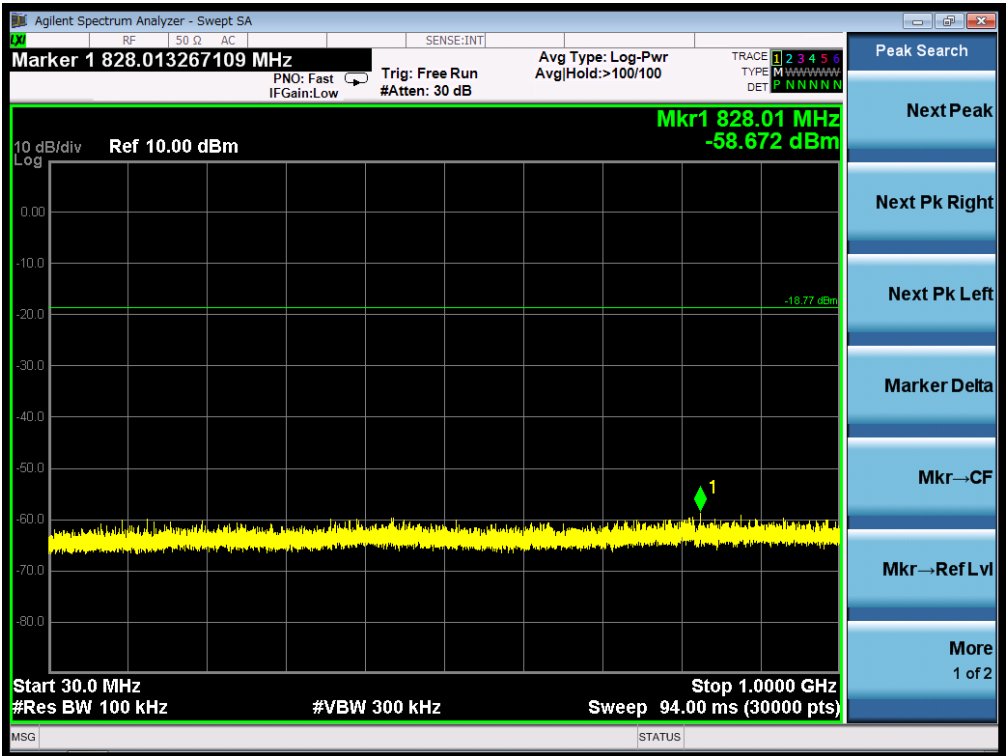


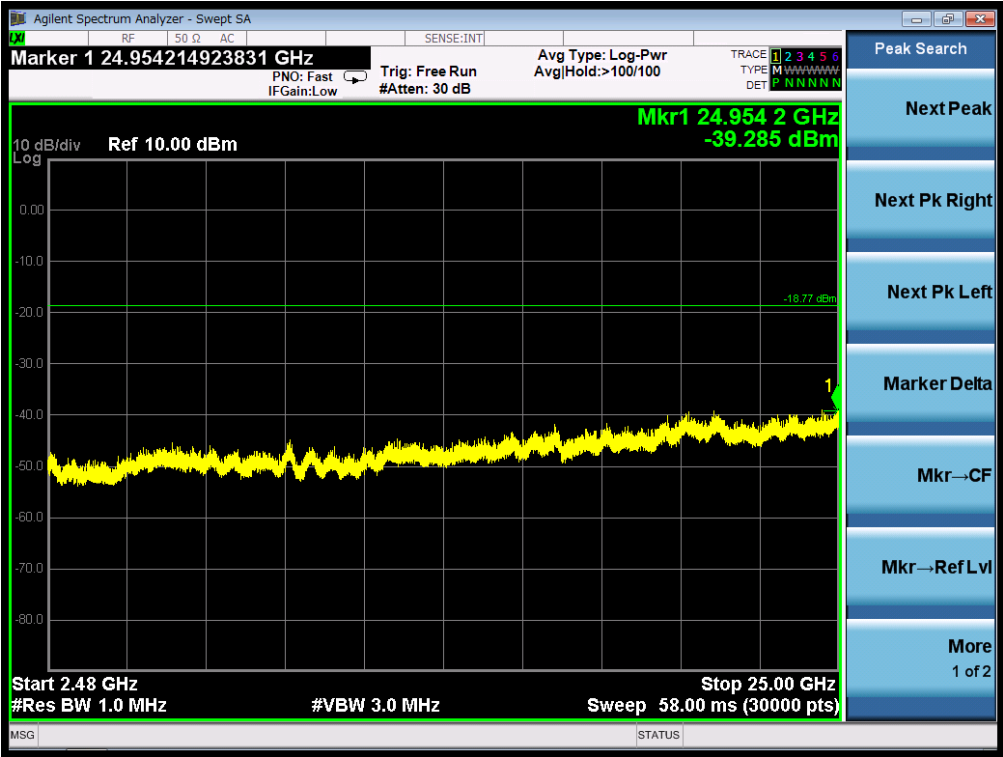
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL



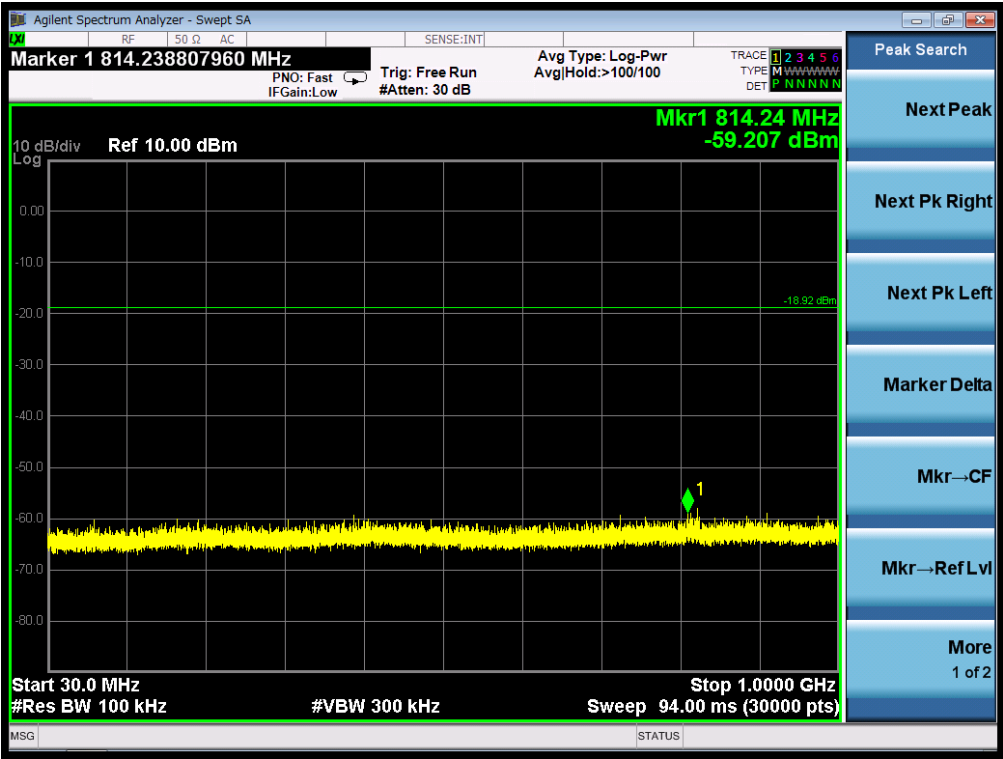


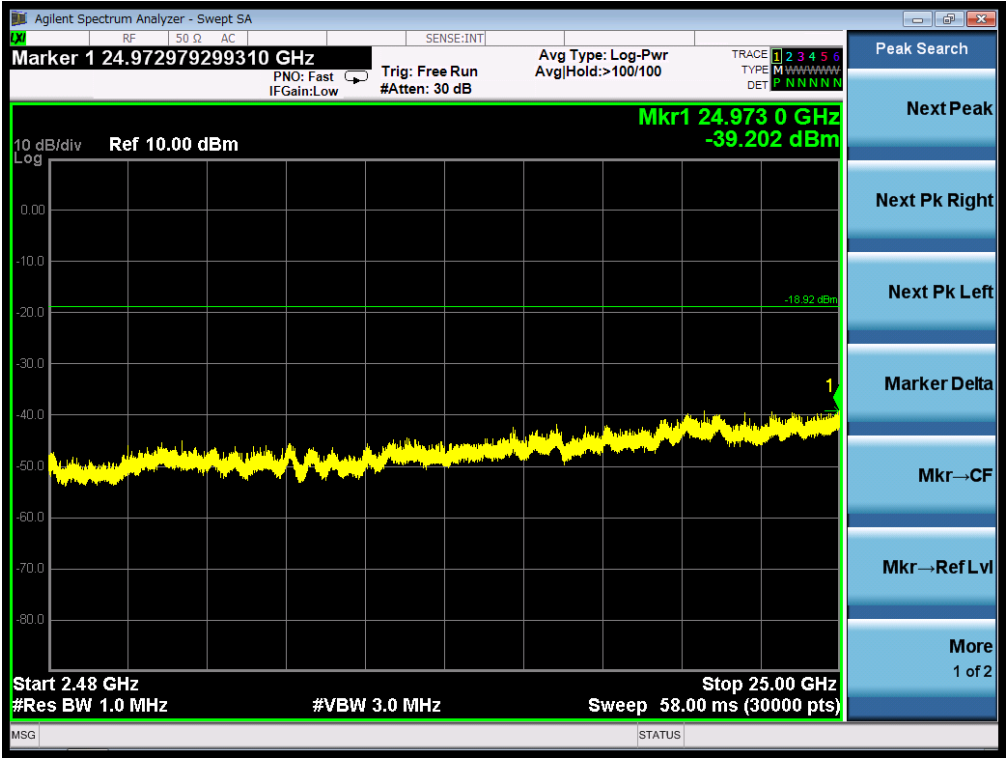
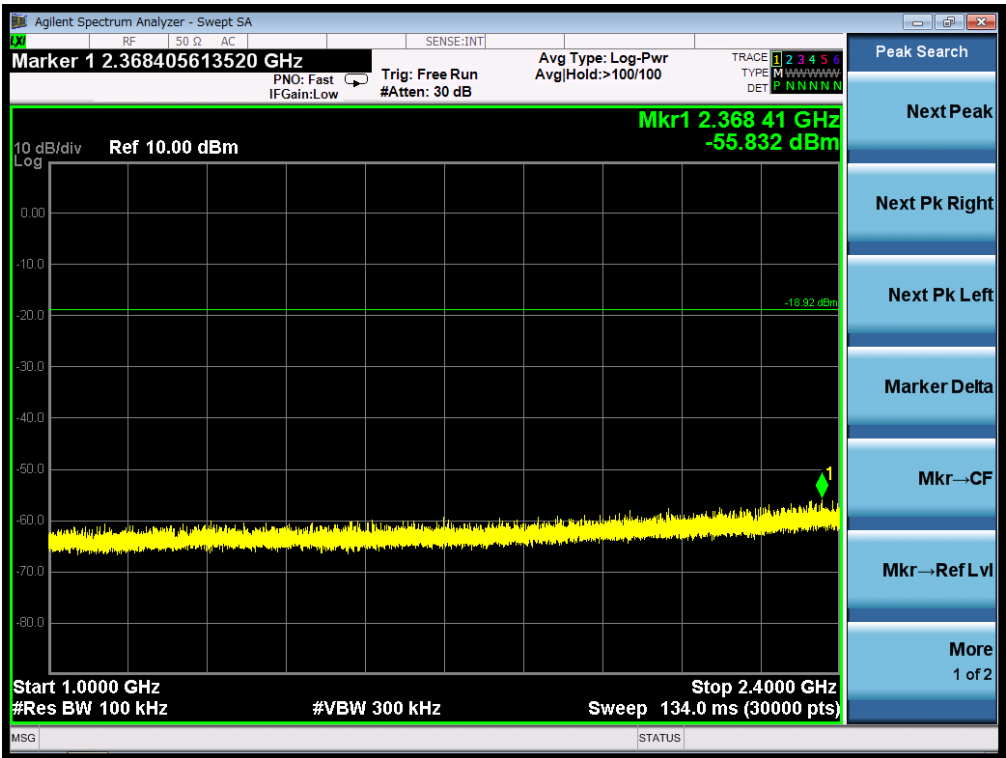
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE  
OF 802.11g FOR MODULATION IN MIDDLE CHANNEL



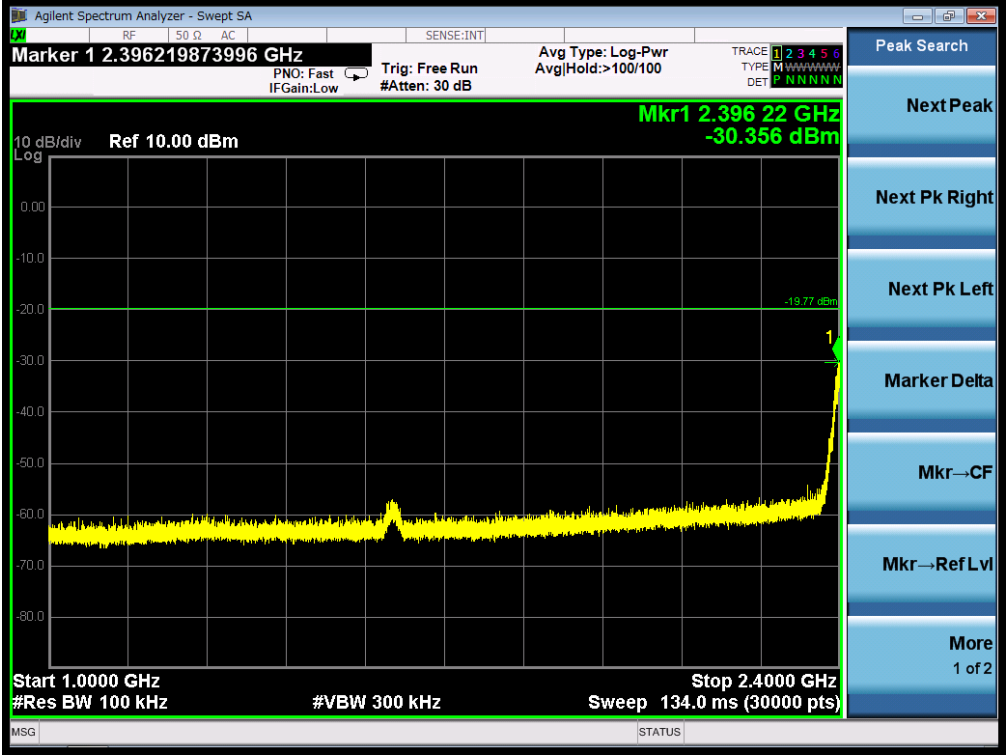
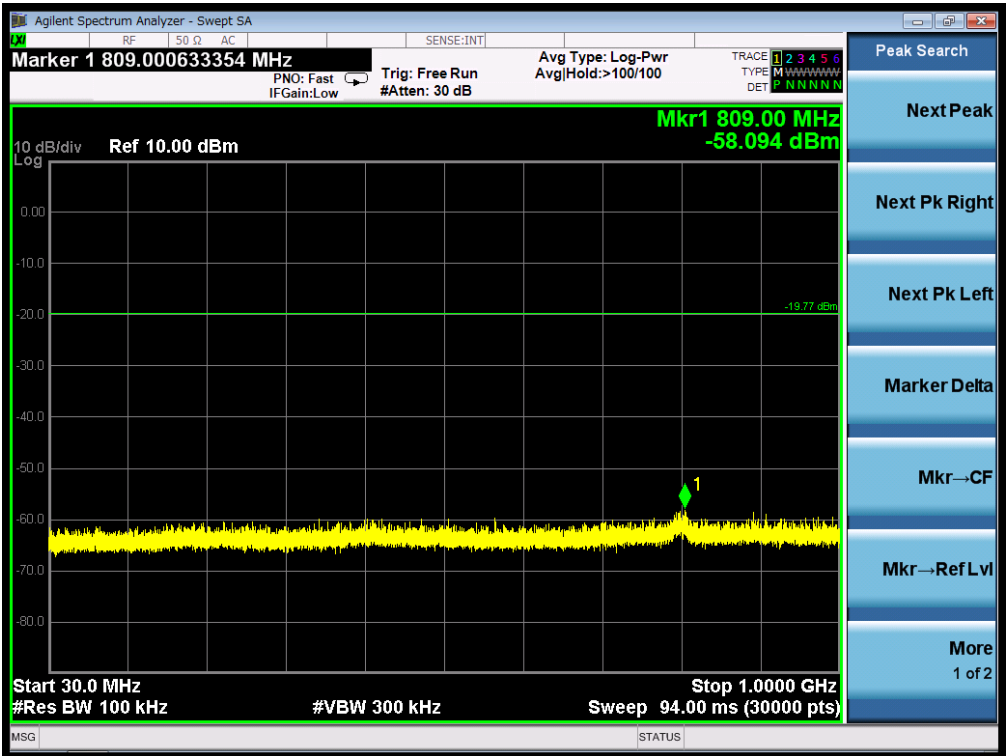


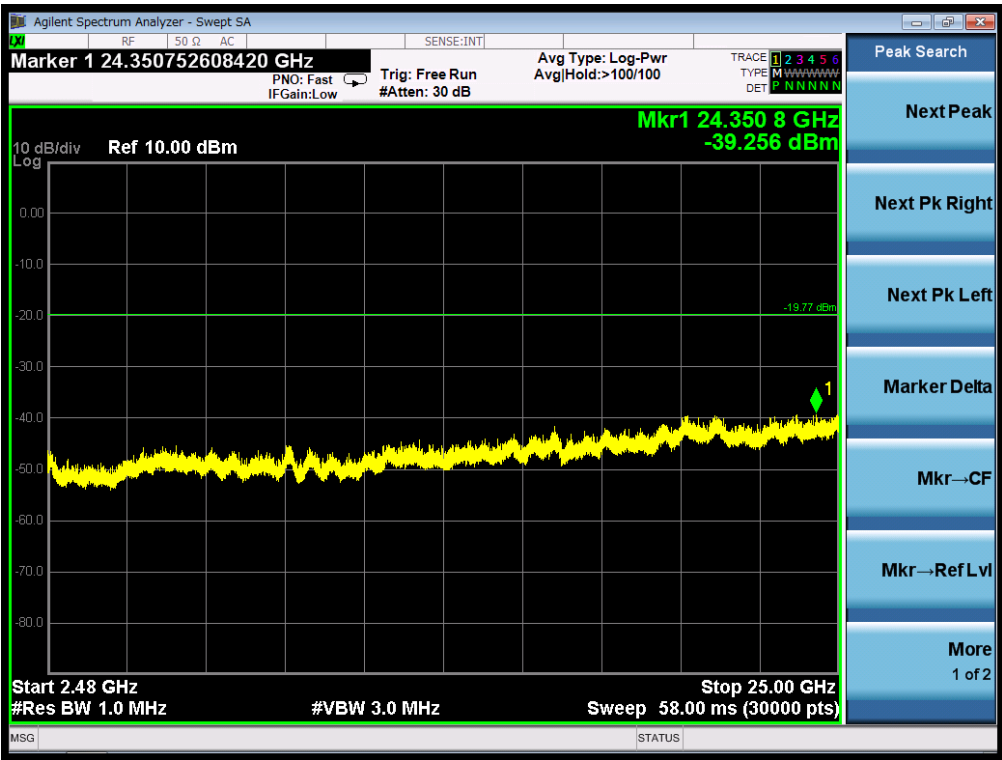
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE  
OF 802.11g FOR MODULATION IN HIGH CHANNEL



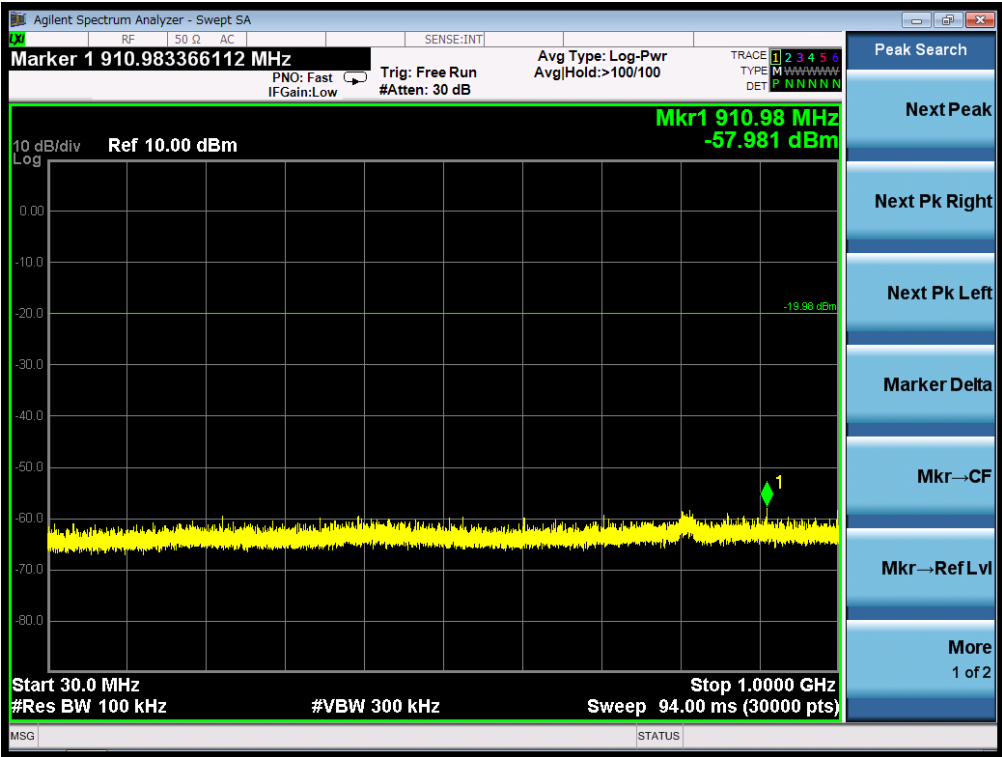


TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE  
OF 802.11n20 FOR MODULATION IN LOW CHANNEL

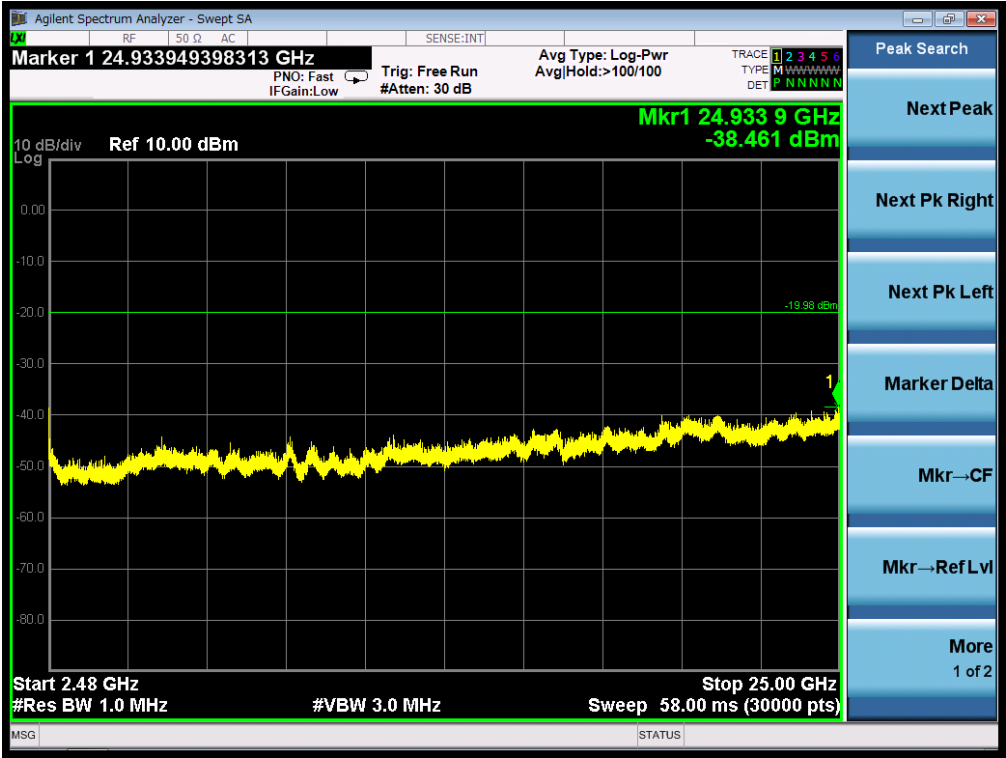
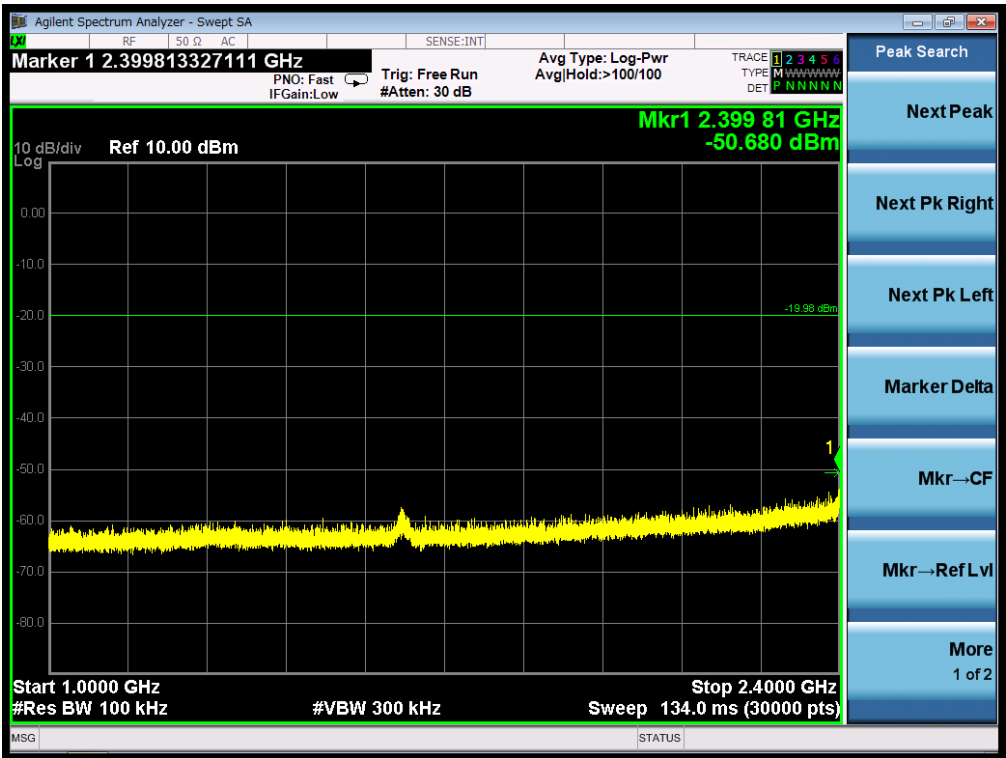




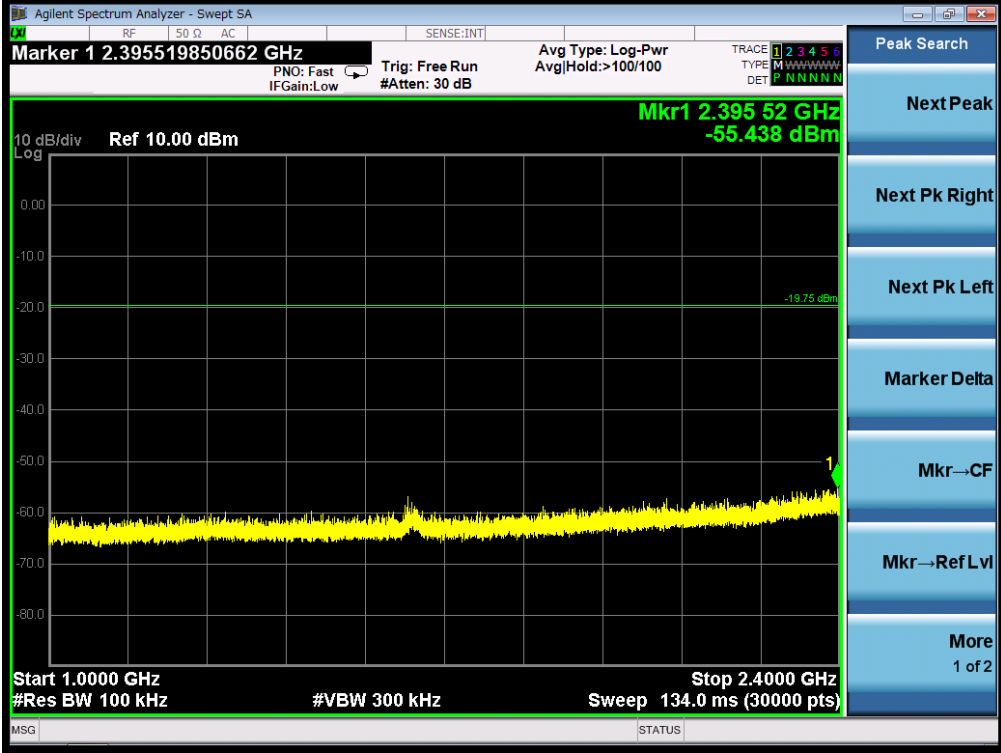
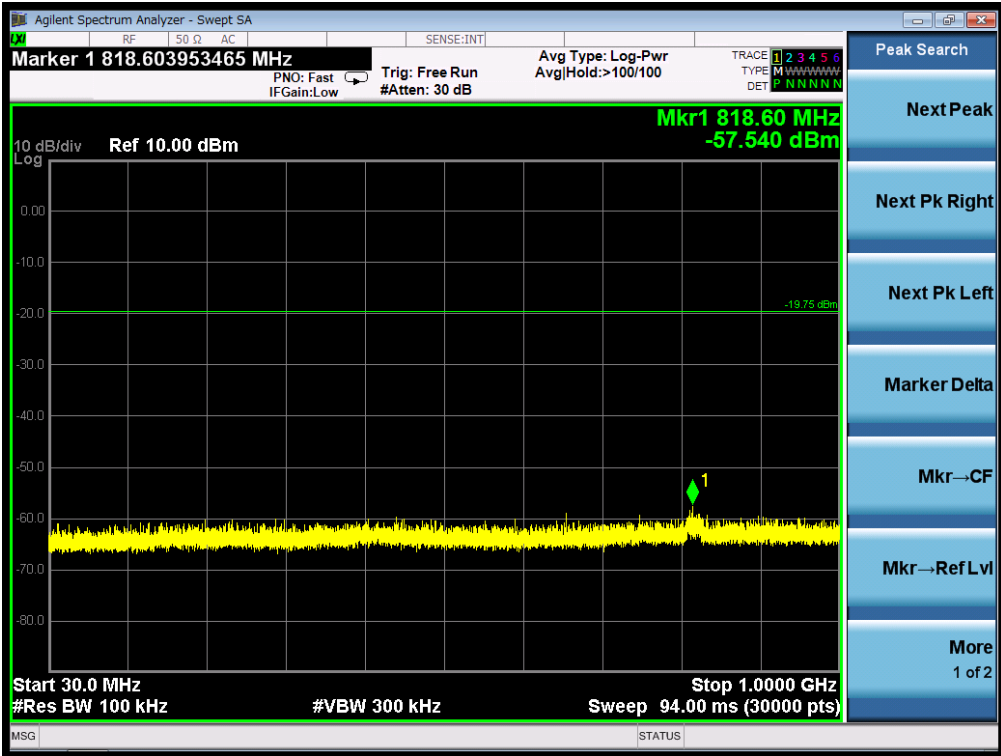
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE  
OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL







TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE  
OF 802.11n20 FOR MODULATION IN HIGH CHANNEL





Note: The 100kHz RBW used in the conducted spurious test from 2.4835GHz to 25GHz may result in long measuring times, To avoid such long measuring times, the 1MHz RBW can be used for pre-test. If the emission level exceeded the limit at one or more frequencies, the 100kHz RBW would be used for final test at the special frequency. Two transmit antennas had been tested, the antenna A was the worst case and record in the test report.

## 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

### 10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the ANSI C63.10 was used in this testing.

### 10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

### 10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

### 10.4 LIMITS AND MEASUREMENT RESULT

<b>TEST ITEM</b>	POWER PECTRAL DENSITY
<b>TEST MODE</b>	802.11b with data rate 11

Channel No.	Power density Chain A (dBm/3kHz)	Power density Chain B (dBm/3kHz)	Power density Total (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-10.691	-11.254	-7.953	8	Pass
Middle Channel	-11.420	-11.785	-8.588	8	Pass
High Channel	-11.411	-12.163	-8.760	8	Pass

<b>TEST ITEM</b>	POWER PECTRAL DENSITY
<b>TEST MODE</b>	802.11g with data rate 54

Channel No.	Power density Chain A (dBm/3kHz)	Power density Chain B (dBm/3kHz)	Power density Total (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-13.833	-14.125	-10.966	8	Pass
Middle Channel	-14.802	-15.027	-11.903	8	Pass
High Channel	-13.489	-13.866	-10.663	8	Pass

<b>TEST ITEM</b>	POWER PECTRAL DENSITY
<b>TEST MODE</b>	802.11n 20 with data rate 65

Channel No.	Power density Chain A (dBm/3kHz)	Power density Chain B (dBm/3kHz)	Power density Total (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-16.787	-17.254	-14.004	8	Pass
Middle Channel	-15.903	-16.215	-13.046	8	Pass
High Channel	-16.351	-16.885	-13.599	8	Pass

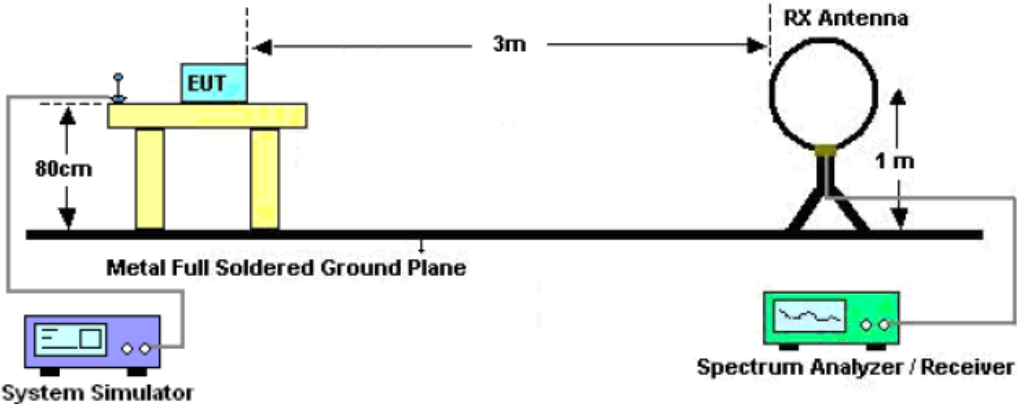
## 11. RADIATED EMISSION

### 11.1. MEASUREMENT PROCEDURE

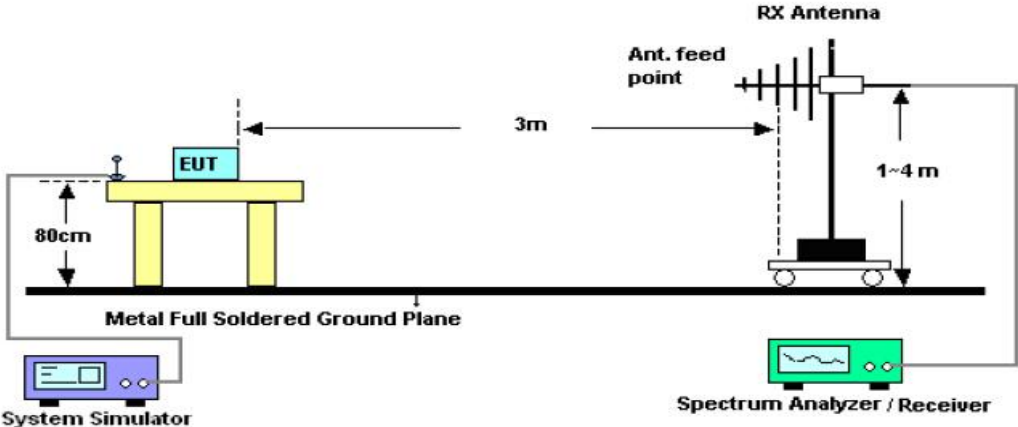
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

11.2. TEST SETUP

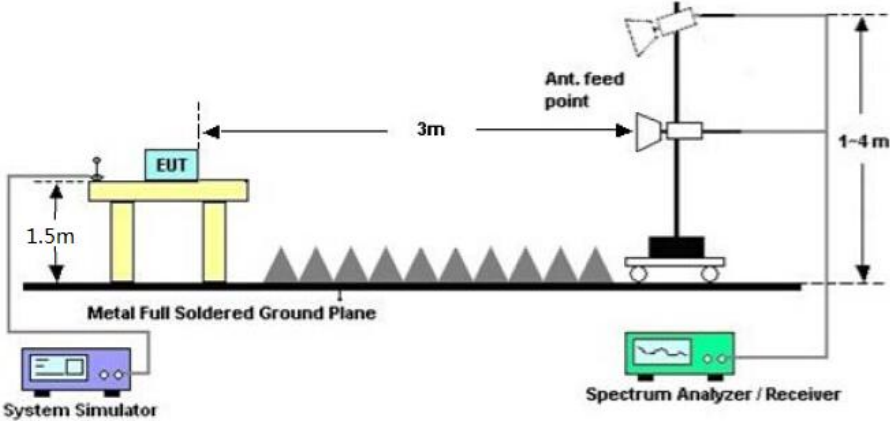
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



**11.3. LIMITS AND MEASUREMENT RESULT**

15.209(a) Limit in the below table has to be followed

<b>Frequencies (MHz)</b>	<b>Field Strength (micorvolts/meter)</b>	<b>Measurement Distance (meters)</b>
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

Note:

For Radiated Emission, 3axis were chosen for testing for each applicable mode.  
All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

**11.4. TEST RESULT**

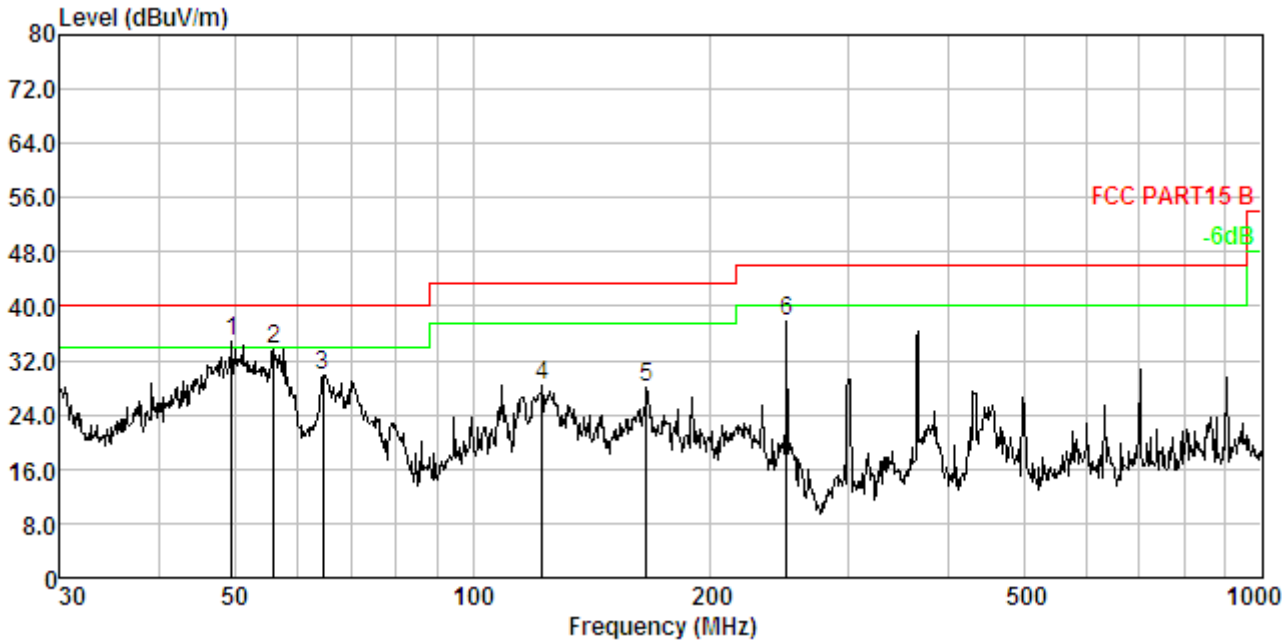
**RADIATED EMISSION BELOW 30MHZ**

No emission found between lowest internal used/generated frequencies to 30MHz.



**RADIATED EMISSION BELOW 1GHZ**

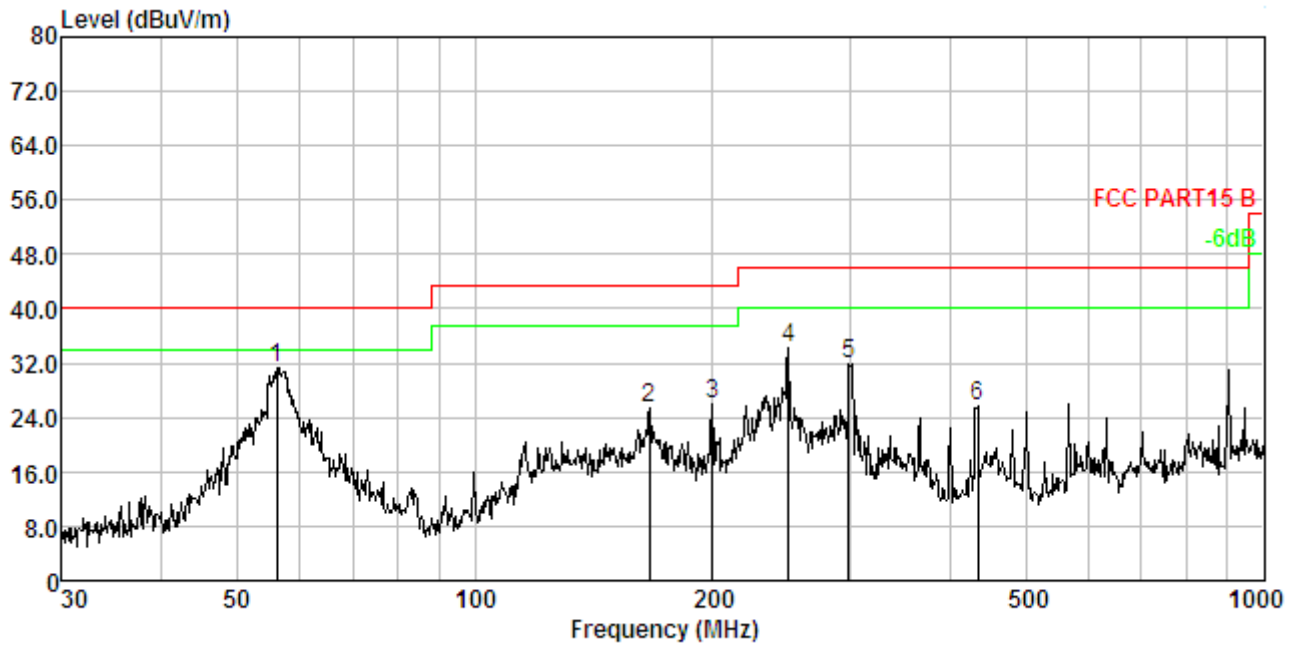
<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2412MHZ	<b>Antenna</b>	Horizontal



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	49.533	1.51	12.36	50.99	30.14	34.72	40.00	-5.28	Peak
2.	56.001	1.62	11.96	50.29	30.19	33.68	40.00	-6.32	Peak
3.	64.659	1.75	11.86	46.56	30.24	29.93	40.00	-10.07	Peak
4.	122.404	2.33	12.18	44.21	30.46	28.26	43.50	-15.24	Peak
5.	166.068	2.60	13.54	42.57	30.57	28.14	43.50	-15.36	Peak
6.	250.301	2.98	11.93	53.61	30.71	37.81	46.00	-8.19	Peak

**RESULT: PASS**

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2412MHZ	<b>Antenna</b>	Vertical



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	56.197	1.62	11.97	47.96	30.19	31.36	40.00	-8.64	Peak
2.	166.651	2.61	13.51	39.98	30.57	25.53	43.50	-17.97	Peak
3.	199.986	2.77	10.38	43.47	30.63	25.99	43.50	-17.51	Peak
4.	250.301	2.98	11.93	49.96	30.71	34.16	46.00	-11.84	Peak
5.	298.268	3.13	13.16	46.41	30.77	31.93	46.00	-14.07	Peak
6.	434.065	3.47	16.06	36.96	30.90	25.59	46.00	-20.41	Peak

**RESULT: PASS**

**Note:**

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
2. The "Factor" value can be calculated automatically by software of measurement system.
3. The two antennas transmit simultaneously for radiated emission.
4. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

**RADIATED EMISSION ABOVE 1GHZ**

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2412MHZ	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4824.081	44.25	3.72	47.97	74	-26.03	peak
4824.106	39.14	3.72	42.86	54	-11.14	AVG
7236.061	37.12	8.15	45.27	74	-28.73	peak
7236.102	31.86	8.15	40.01	54	-13.99	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2412MHZ	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4824.053	42.58	3.72	46.3	74	-27.7	peak
4824.077	37.12	3.72	40.84	54	-13.16	AVG
7236.038	36.87	8.15	45.02	74	-28.98	peak
7236.029	31.08	8.15	39.23	54	-14.77	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2437MHZ	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4874.068	47.12	3.75	50.87	74	-23.13	peak
4874.073	41.86	3.75	45.61	54	-8.39	AVG
7311.112	40.87	8.16	49.03	74	-24.97	peak
7311.047	35.22	8.16	43.38	54	-10.62	AVG
<b>Remark:</b>						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with date rate 1 2437MHZ	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4874.027	46.12	3.75	49.87	74	-24.13	peak
4874.089	40.49	3.75	44.24	54	-9.76	AVG
7311.079	39.15	8.16	47.31	74	-26.69	peak
7311.103	34.25	8.16	42.41	54	-11.59	AVG
<b>Remark:</b>						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2462MHZ	<b>Antenna</b>	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4924.073	47.14	3.81	50.95	74	-23.05	peak
4924.021	41.89	3.81	45.7	54	-8.3	AVG
7386.101	41.22	8.19	49.41	74	-24.59	peak
7386.076	35.94	8.19	44.13	54	-9.87	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2462MHZ	<b>Antenna</b>	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4924.103	45.87	3.81	49.68	74	-24.32	peak
4924.047	40.26	3.81	44.07	54	-9.93	AVG
7386.027	39.14	8.19	47.33	74	-26.67	peak
7386.031	33.89	8.19	42.08	54	-11.92	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

**RESULT: PASS**

**Note:**

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.  
Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.  
The “Factor” value can be calculated automatically by software of measurement system.  
All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.  
The two antennas transmit simultaneously for radiated emission.

## 12. BAND EDGE EMISSION

### 12.1. MEASUREMENT PROCEDURE

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

The two antennas transmit simultaneously for the band edge emission.

### 12.2. TEST SET-UP

same as 11.2

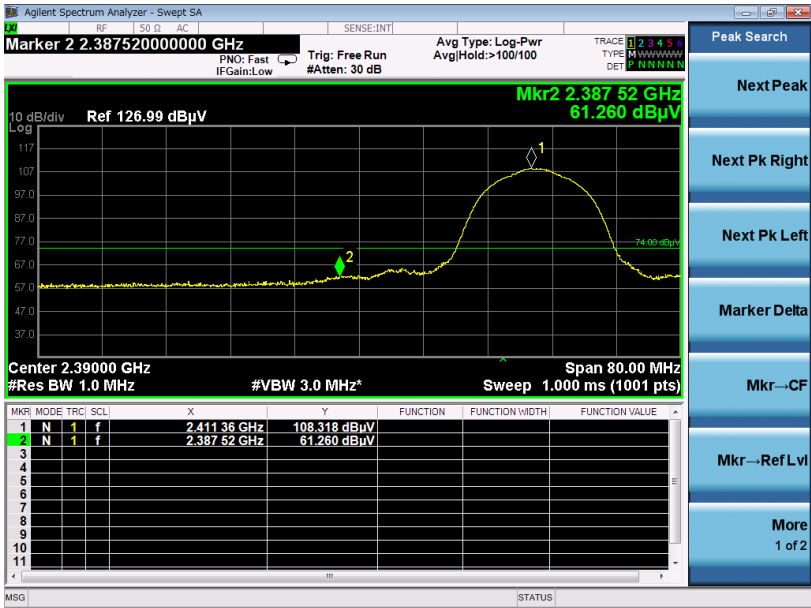
#### Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.
3. The antenna A was the worst case and only the data of the worst case record in the test report.

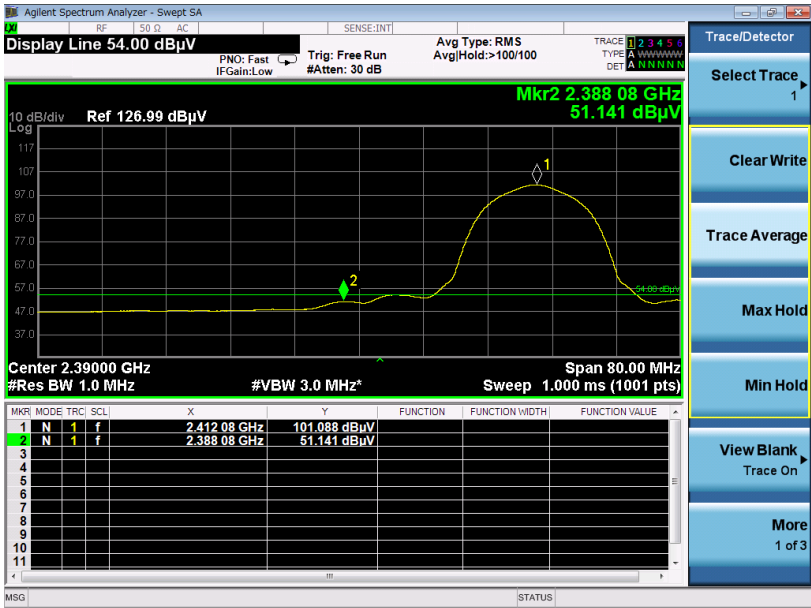
12.3. TEST RESULT

EUT	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	Model Name	AES-BCM-M1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PK



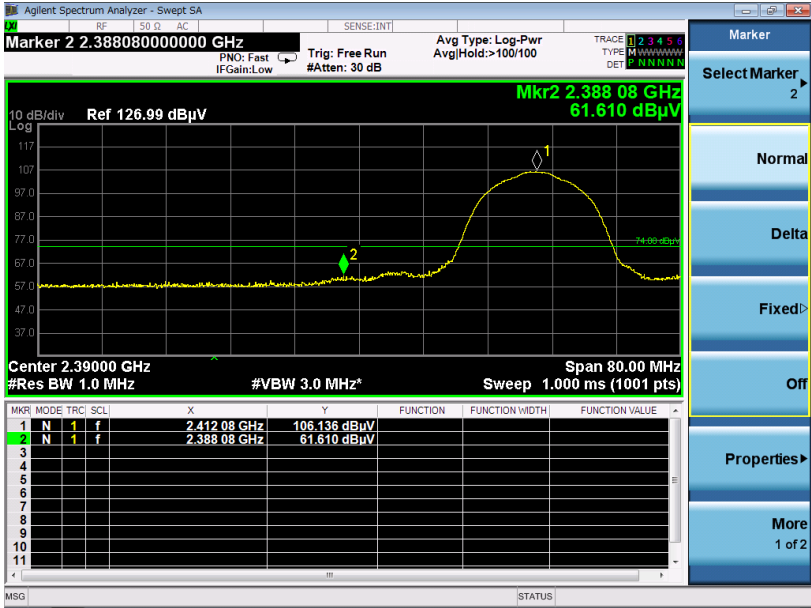
AV



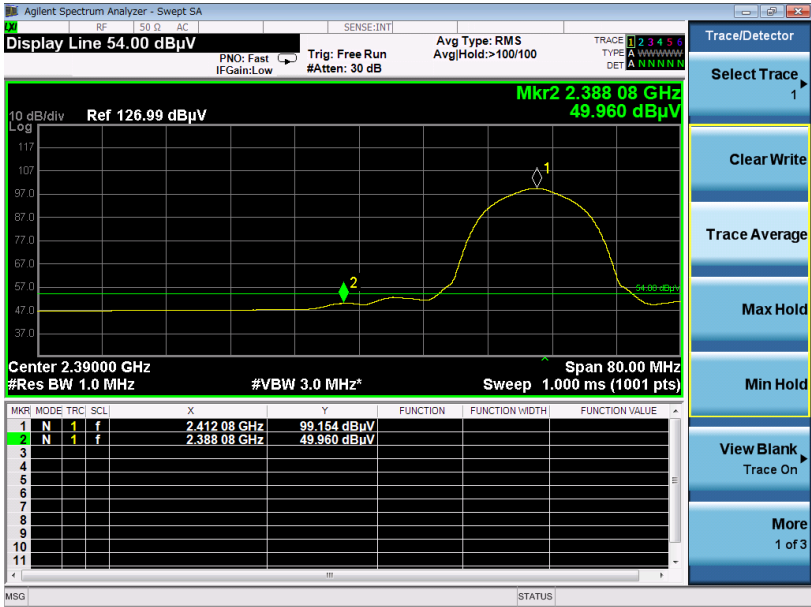
RESULT: PASS

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2412MHZ	<b>Antenna</b>	Vertical

PK



AV

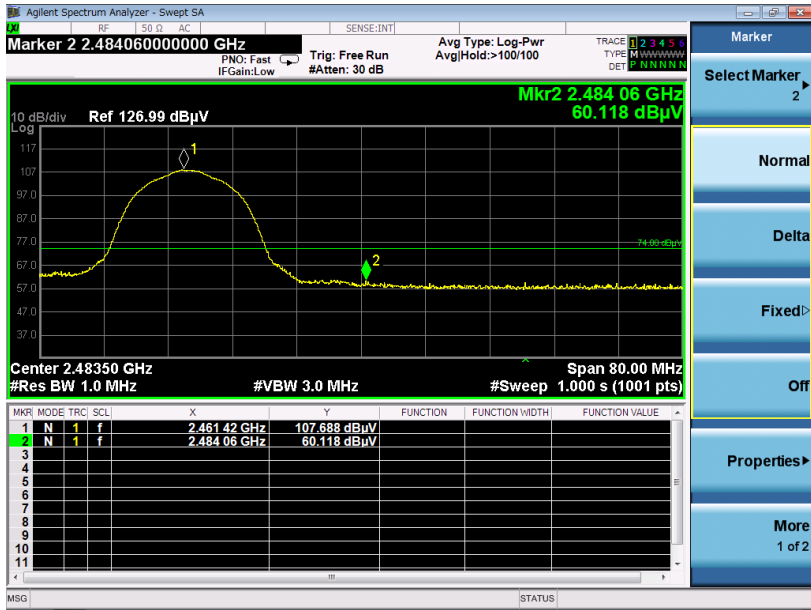


RESULT: PASS

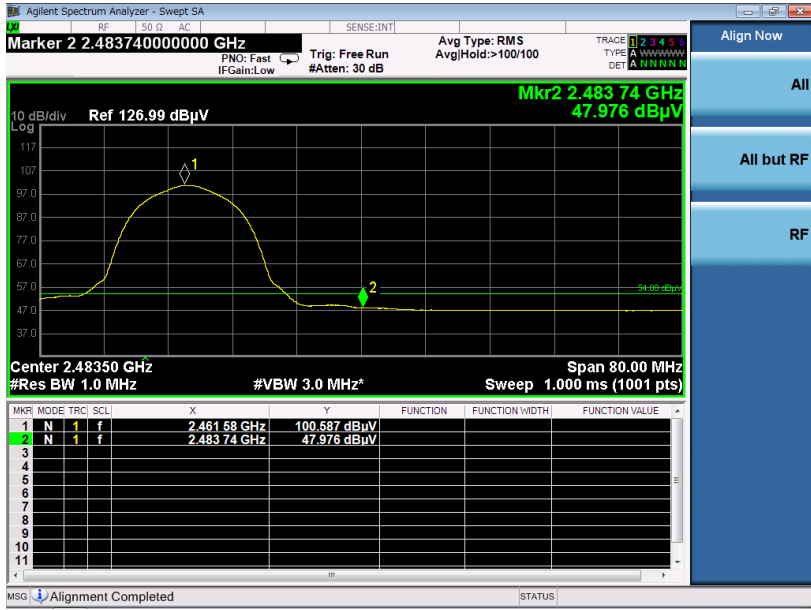


EUT	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	Model Name	AES-BCM-M1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal

PK



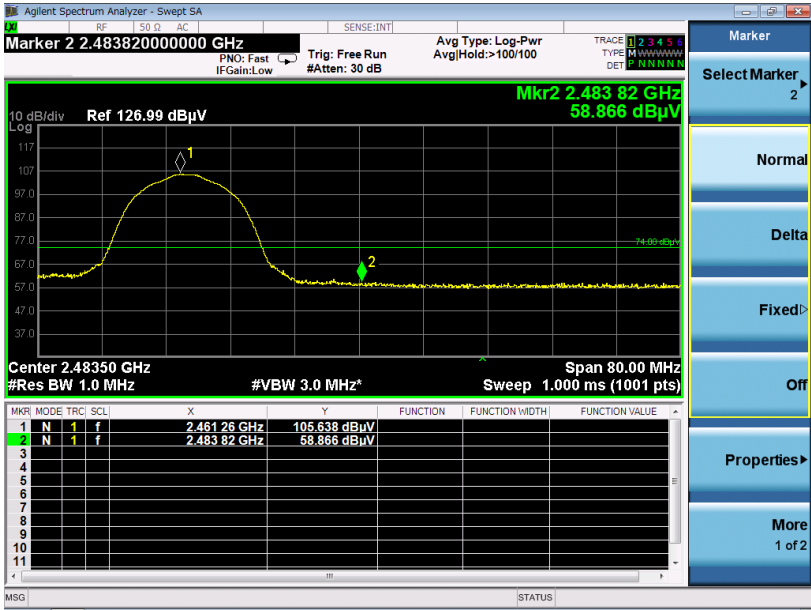
AV



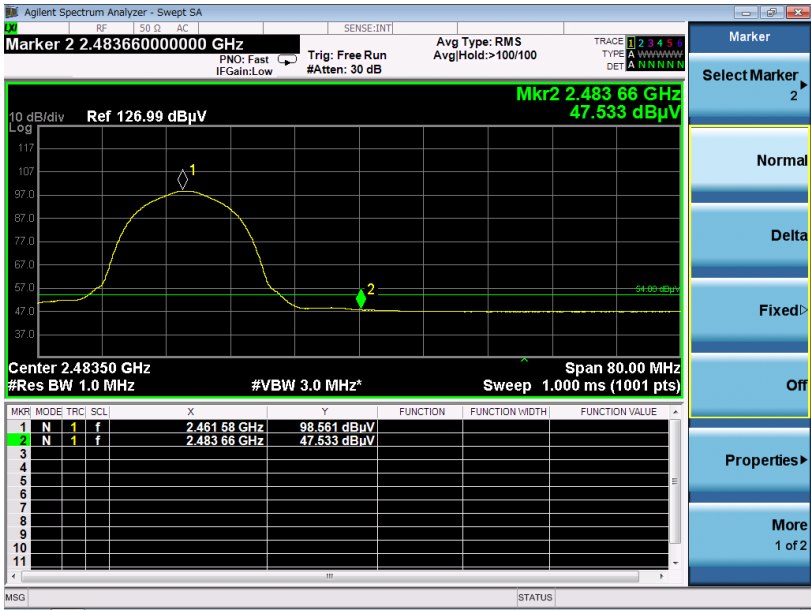
RESULT: PASS

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11b with data rate 1 2462MHZ	<b>Antenna</b>	Vertical

PK



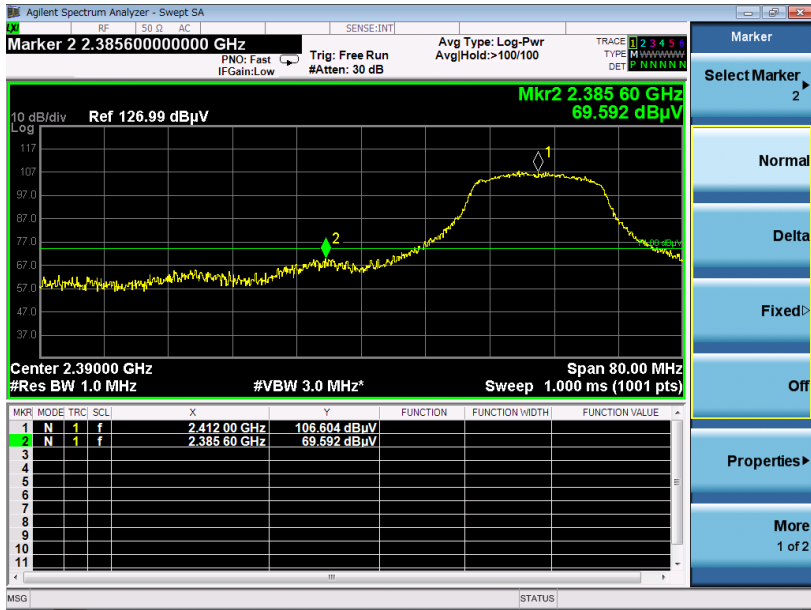
AV



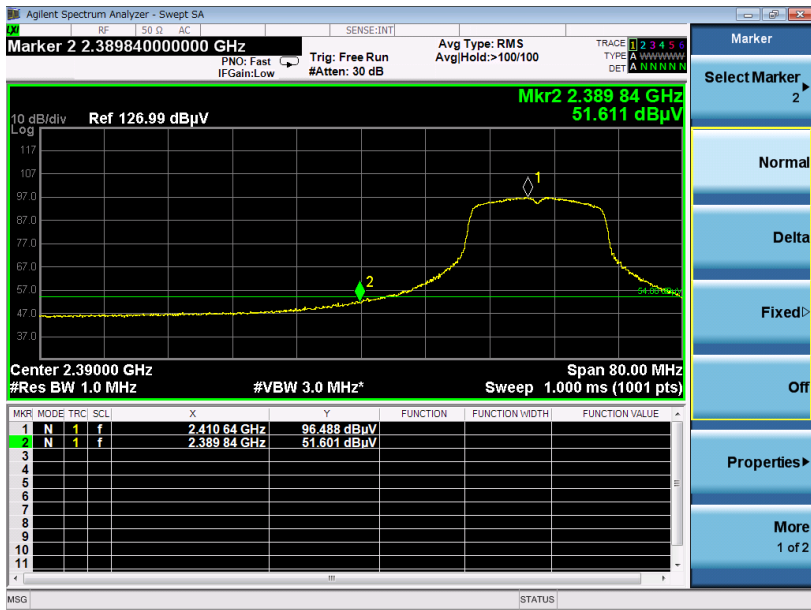
RESULT: PASS

EUT	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	Model Name	AES-BCM-M1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

PK



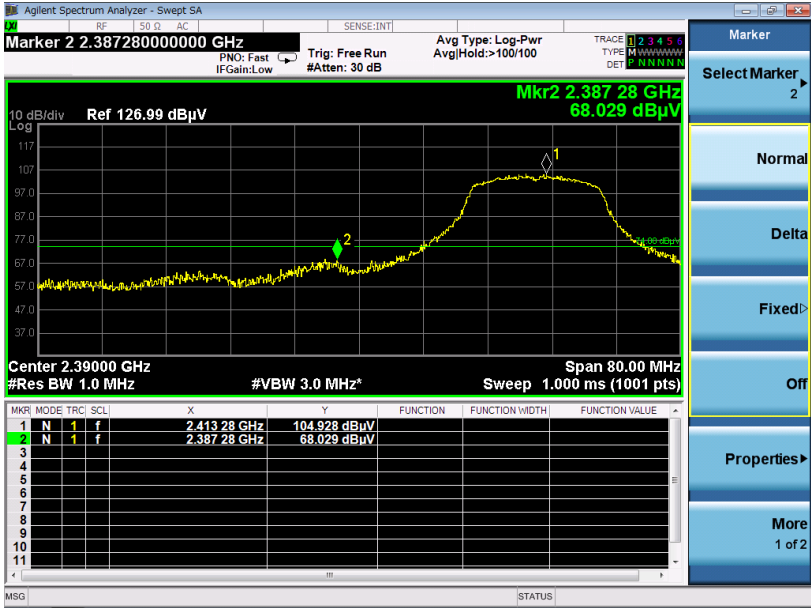
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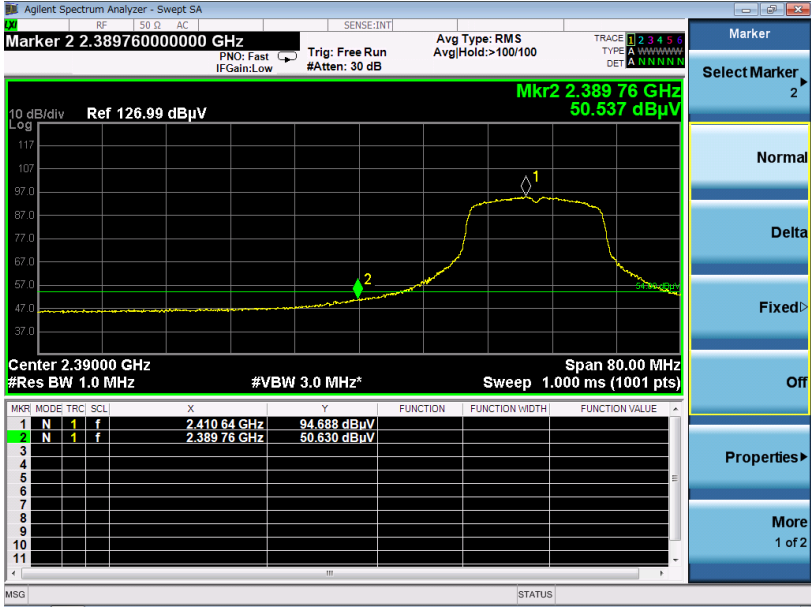
RESULT: PASS

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11g with data rate 6 2412MHZ	<b>Antenna</b>	Vertical

PK



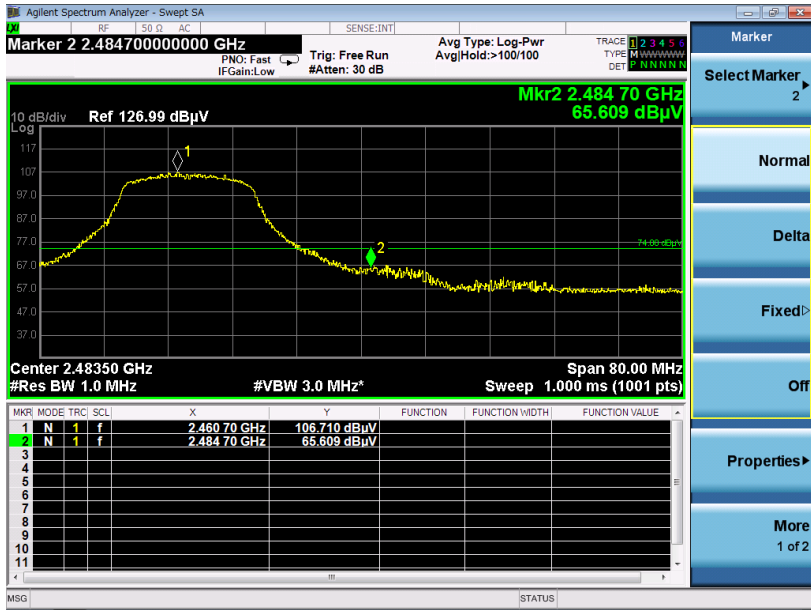
AV



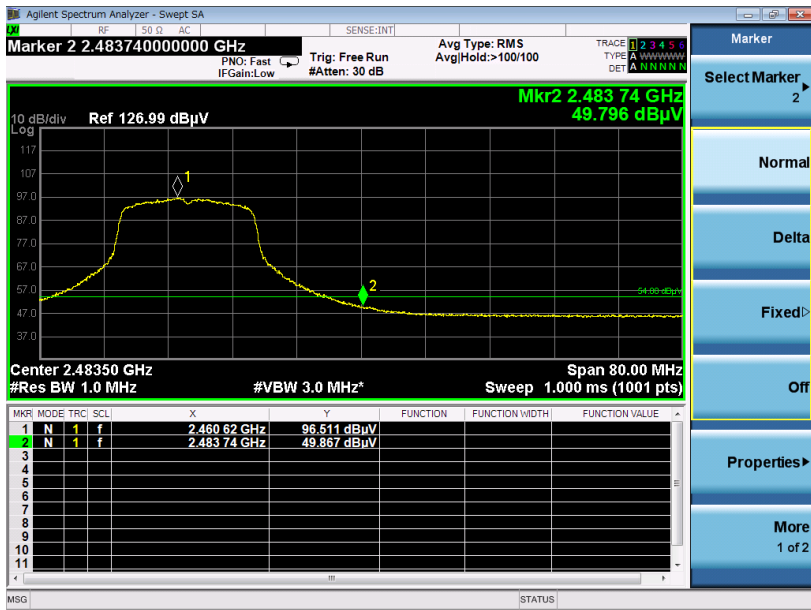
RESULT: PASS

EUT	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	Model Name	AES-BCM-M1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal

PK



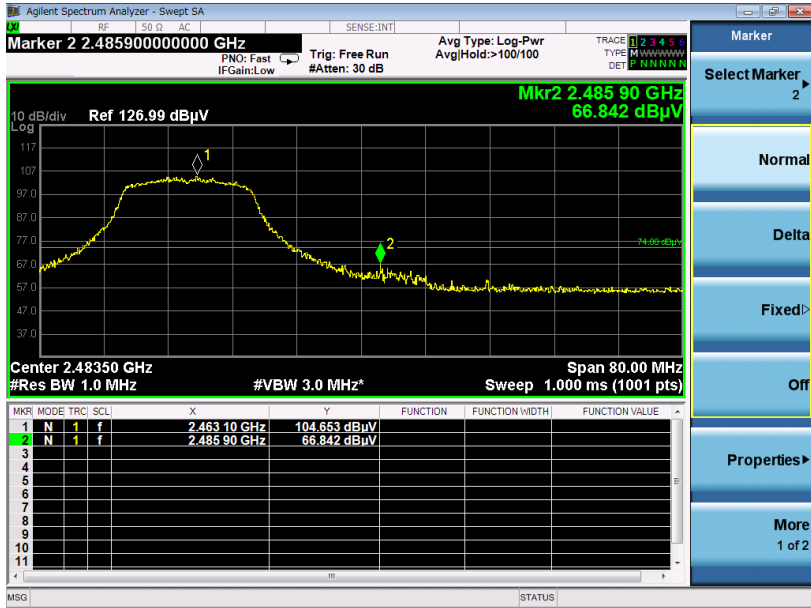
AV



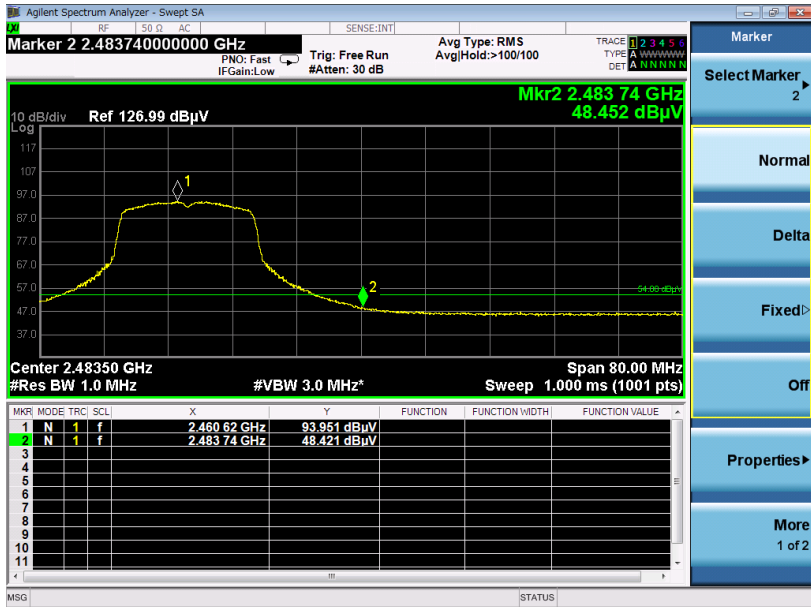
RESULT: PASS

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11g with data rate 6 2462MHZ	<b>Antenna</b>	Vertical

PK



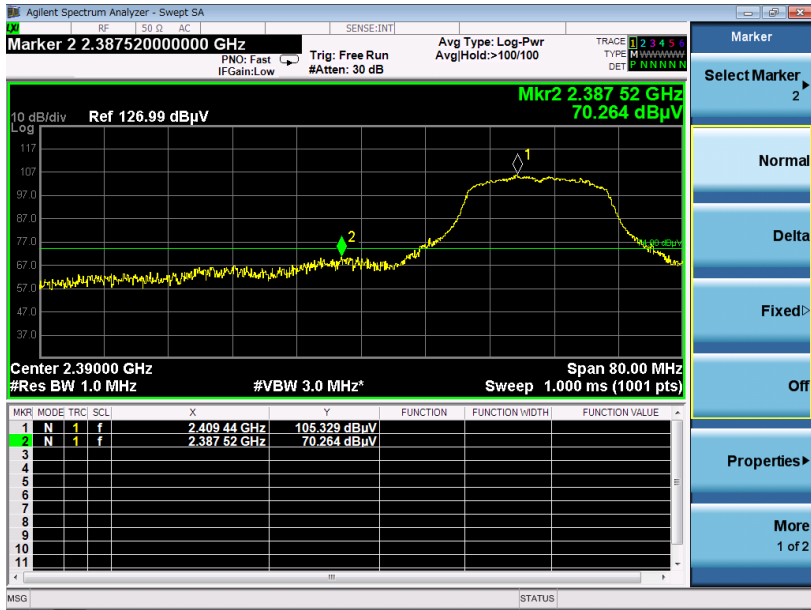
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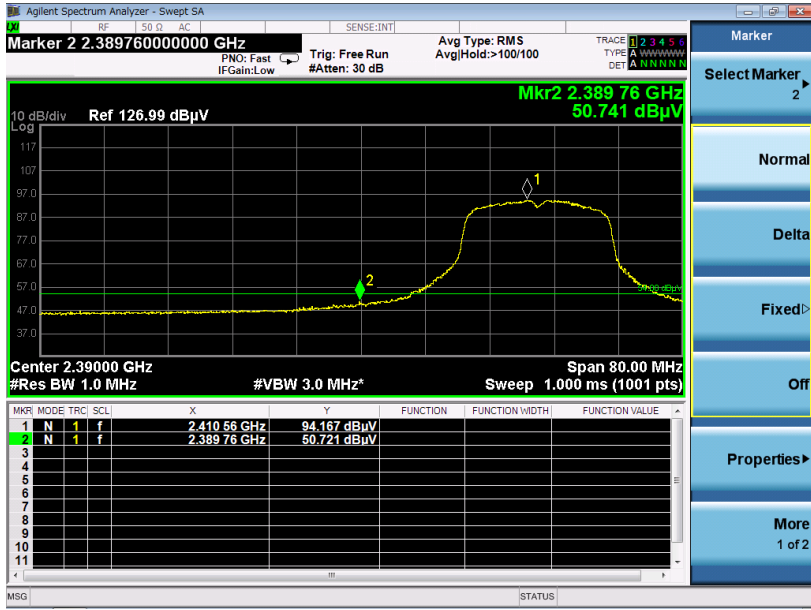
RESULT: PASS

EUT	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	Model Name	AES-BCM-M1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

PK



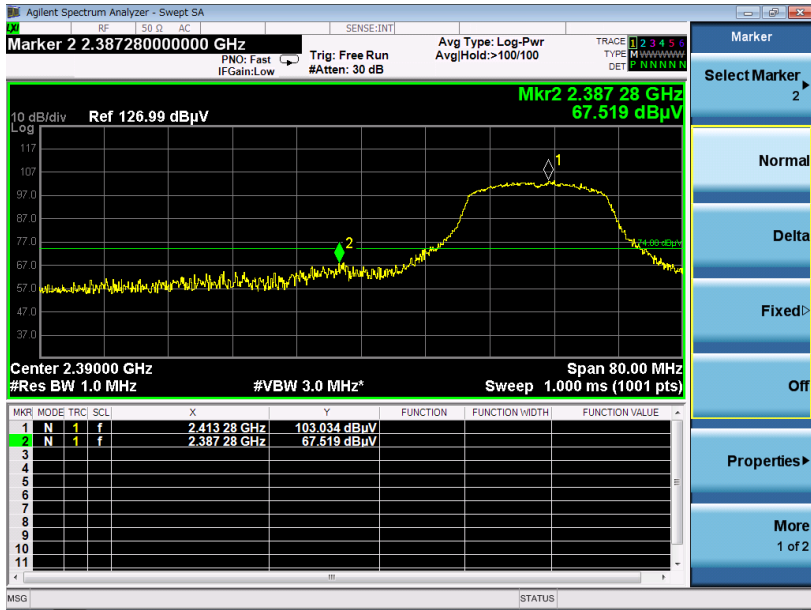
AV



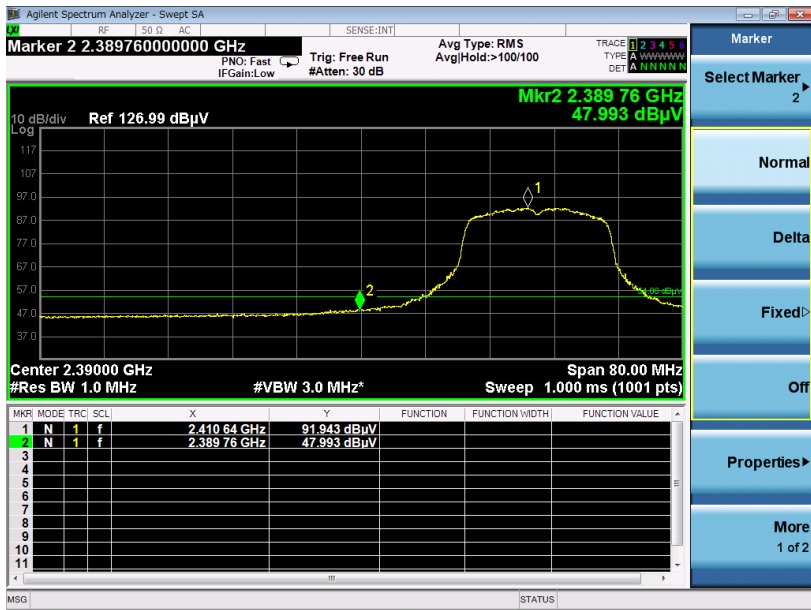
RESULT: PASS

EUT	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	Model Name	AES-BCM-M1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical

PK



AV

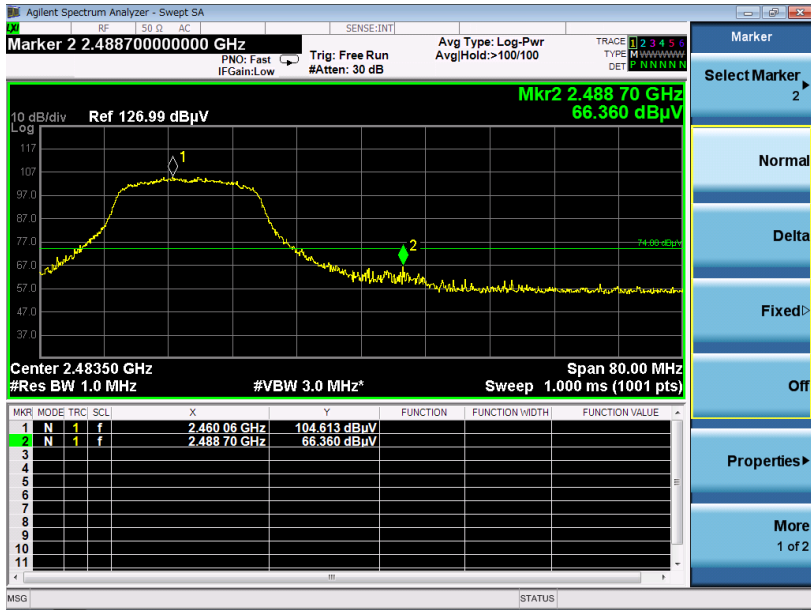


RESULT: PASS

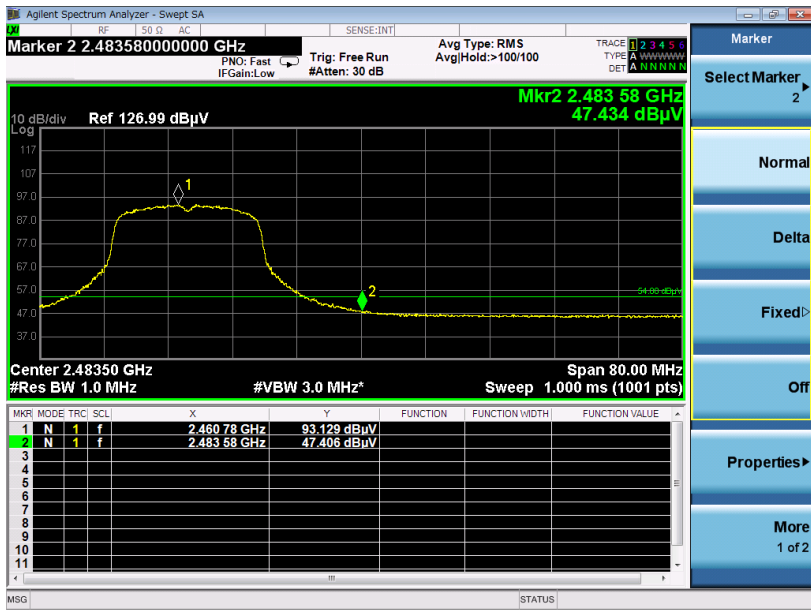


EUT	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	Model Name	AES-BCM-M1
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20with data rate 6.5 2462MHZ	Antenna	Horizontal

PK



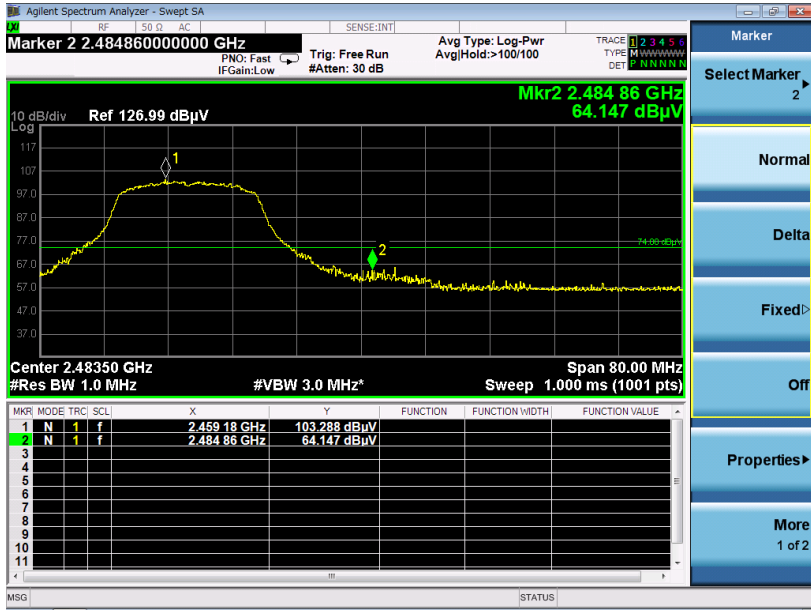
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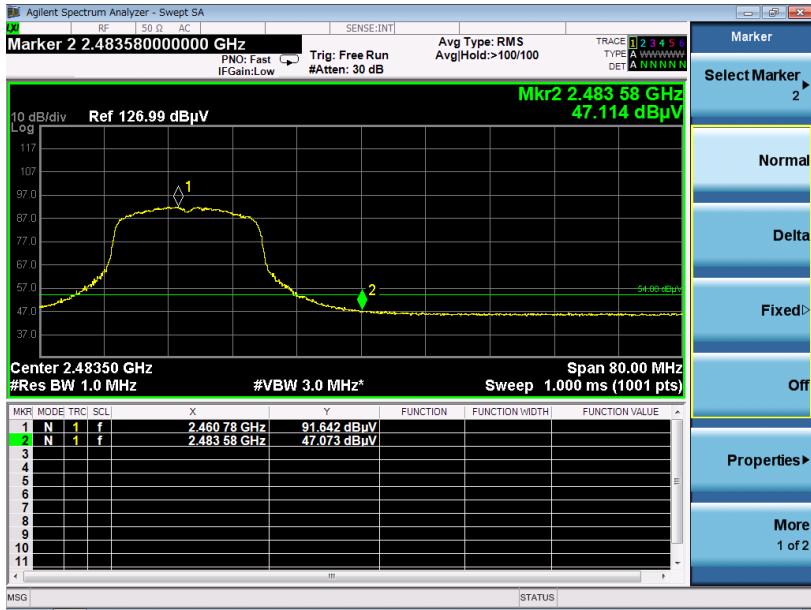
RESULT: PASS

<b>EUT</b>	AES-BCM4343W-M1-G(AVNET BCM4343W SOC MODULE)	<b>Model Name</b>	AES-BCM-M1
<b>Temperature</b>	25°C	<b>Relative Humidity</b>	55.4%
<b>Pressure</b>	960hPa	<b>Test Voltage</b>	Normal Voltage
<b>Test Mode</b>	802.11n 20 with data rate 6.5 2462MHZ	<b>Antenna</b>	Vertical

PK



AV



RESULT: PASS

**13. FCC LINE CONDUCTED EMISSION TEST**

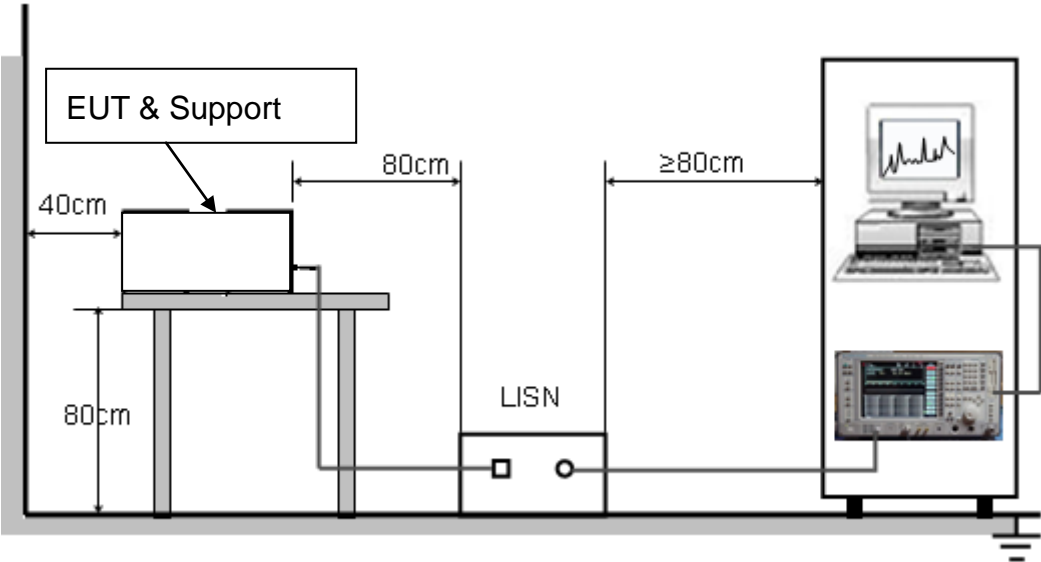
**13.1. LIMITS OF LINE CONDUCTED EMISSION TEST**

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

**13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST**



### **13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST**

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

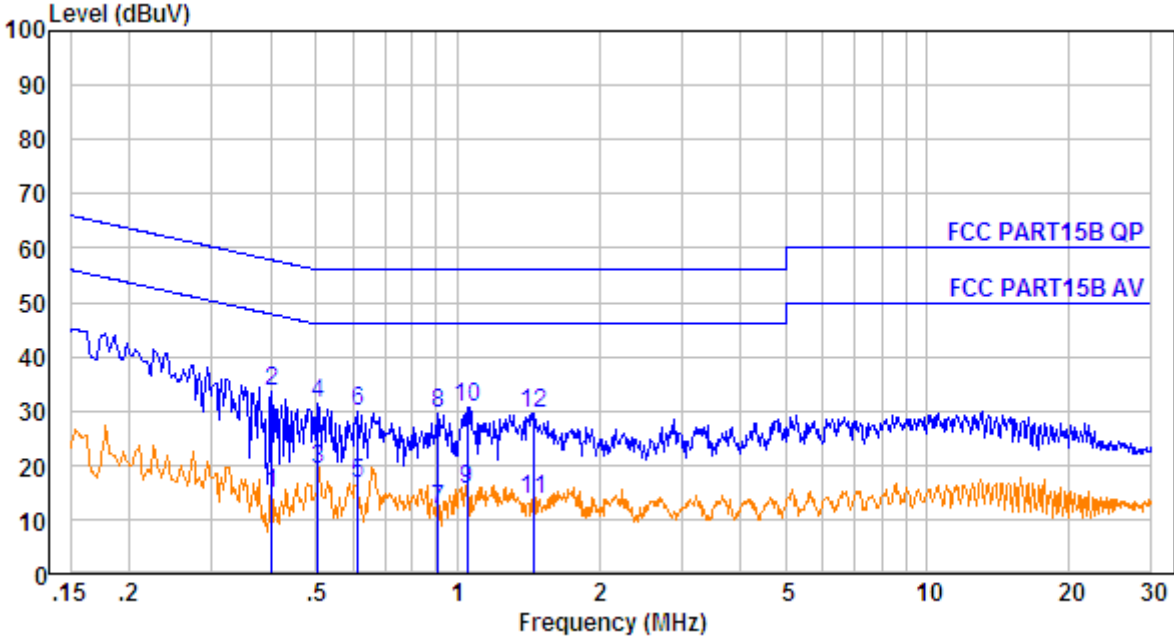
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### **13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST**

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

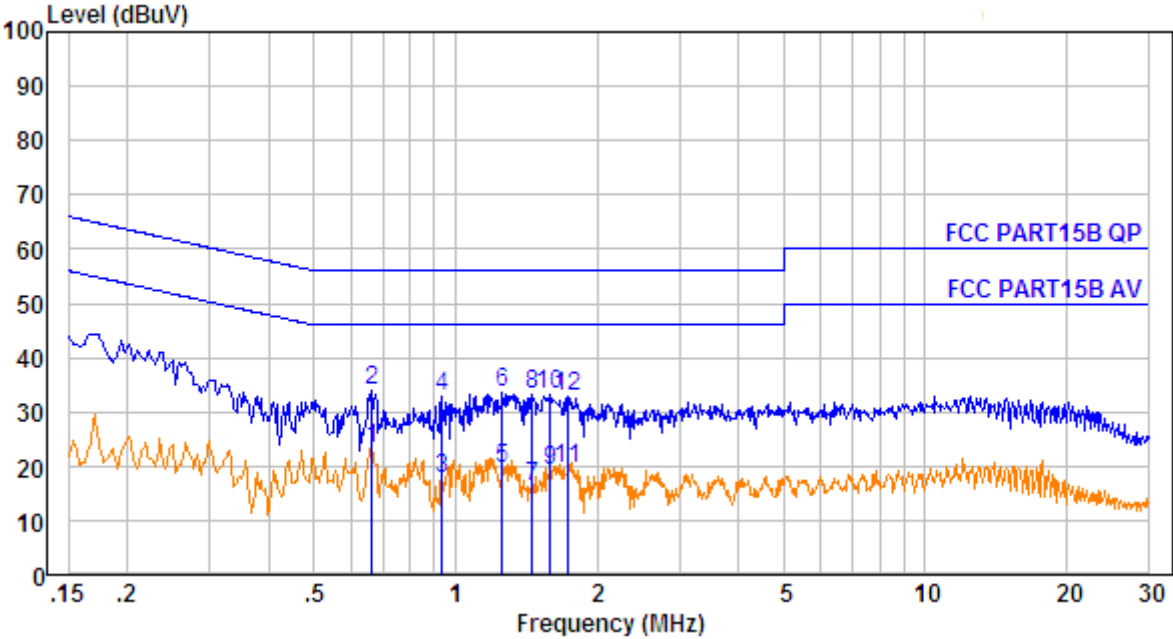
LINE CONDUCTED EMISSION TEST LINE 1-L



No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBuV	Emission Level dBuV	Limit dBuV	Over Limit dB	Remark
1.	0.402	10.64	0.60	3.43	14.67	47.81	-33.14	Average
2.	0.402	10.64	0.60	22.43	33.67	57.81	-24.14	Peak
3.	0.505	10.65	0.60	7.95	19.20	46.00	-26.80	Average
4.	0.505	10.65	0.60	19.95	31.20	56.00	-24.80	Peak
5.	0.614	10.66	0.60	5.53	16.79	46.00	-29.21	Average
6.	0.614	10.66	0.60	18.53	29.79	56.00	-26.21	Peak
7.	0.909	10.67	0.60	0.40	11.67	46.00	-34.33	Average
8.	0.909	10.67	0.60	18.40	29.67	56.00	-26.33	Peak
9.	1.049	10.67	0.60	4.41	15.68	46.00	-30.32	Average
10.	1.049	10.67	0.60	19.41	30.68	56.00	-25.32	Peak
11.	1.449	10.68	0.60	2.37	13.65	46.00	-32.35	Average
12.	1.449	10.68	0.60	18.37	29.65	56.00	-26.35	Peak

RESULT: PASS

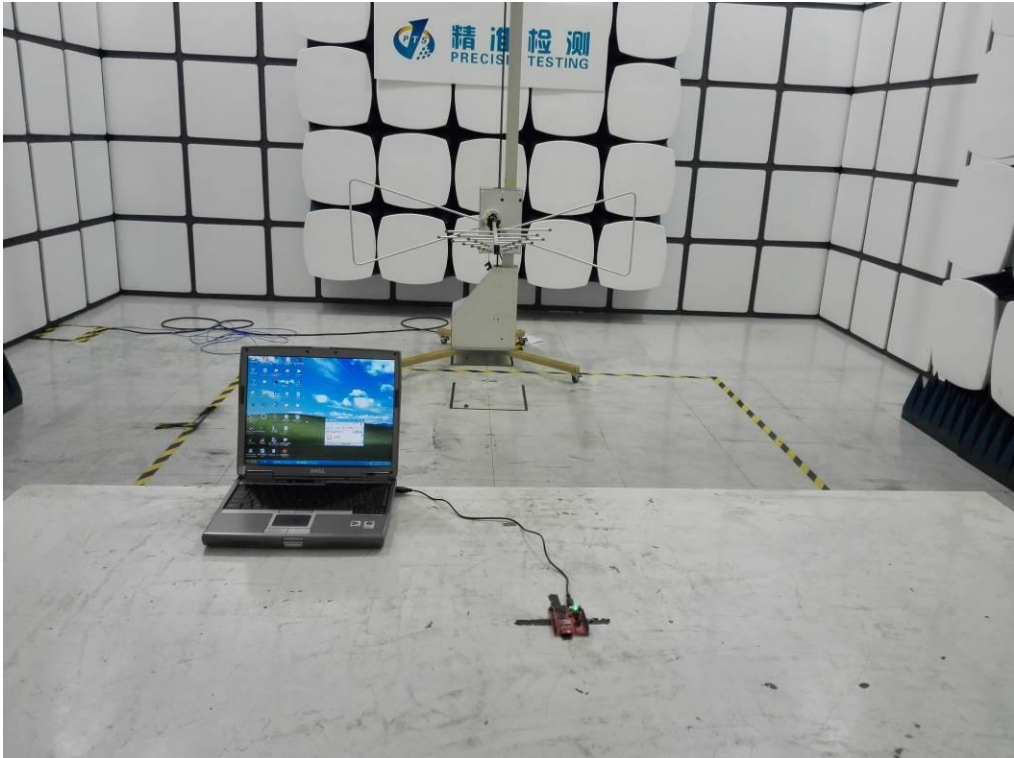
Line Conducted Emission Test Line 2-N



No.	Freq MHz	Cable Loss dB	AMN Factor dB	Receiver Reading dBUV	Emission Level dBUV	Limit dBUV	Over Limit dB	Remark
1.	0.665	10.66	0.60	11.85	23.11	46.00	-22.89	Average
2.	0.665	10.66	0.60	22.85	34.11	56.00	-21.89	Peak
3.	0.938	10.67	0.60	6.55	17.82	46.00	-28.18	Average
4.	0.938	10.67	0.60	21.55	32.82	56.00	-23.18	Peak
5.	1.255	10.68	0.60	8.40	19.68	46.00	-26.32	Average
6.	1.255	10.68	0.60	22.40	33.68	56.00	-22.32	Peak
7.	1.456	10.69	0.60	4.98	16.27	46.00	-29.73	Average
8.	1.456	10.69	0.60	21.98	33.27	56.00	-22.73	Peak
9.	1.593	10.69	0.60	7.83	19.12	46.00	-26.88	Average
10.	1.593	10.69	0.60	21.83	33.12	56.00	-22.88	Peak
11.	1.734	10.69	0.60	8.40	19.69	46.00	-26.31	Average
12.	1.734	10.69	0.60	21.40	32.69	56.00	-23.31	Peak

**RESULT: PASS**

**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**  
**FCC RADIATED EMISSION TEST SETUP**

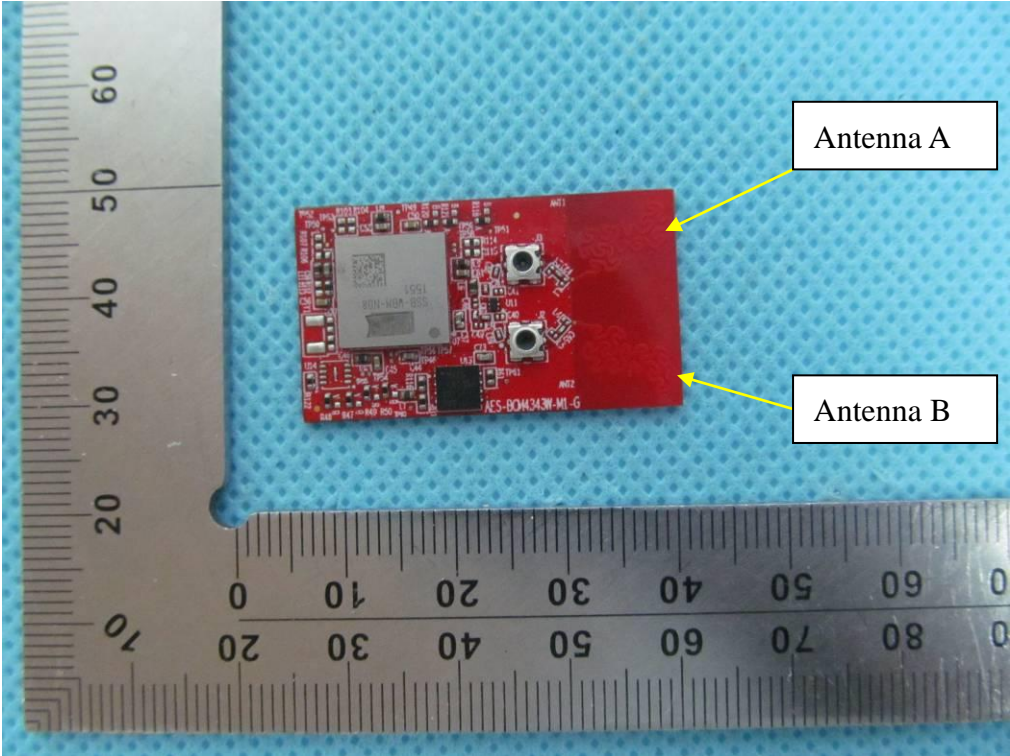


FCC LINE CONDUCTED EMISSION TEST SETUP

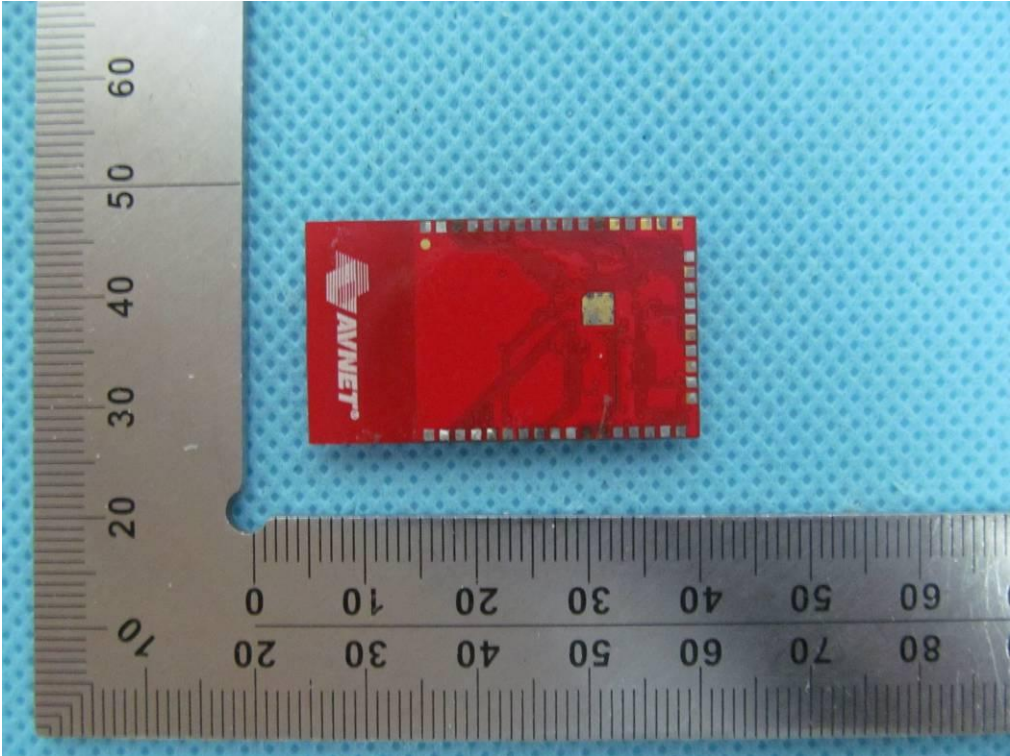




**APPENDIX B: PHOTOGRAPHS OF EUT**  
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



----END OF REPORT----