1-18G

11g

CH6

# **Radiated Emission**

# **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11g CH6

Test Voltage: Comment:

## **Common Information**

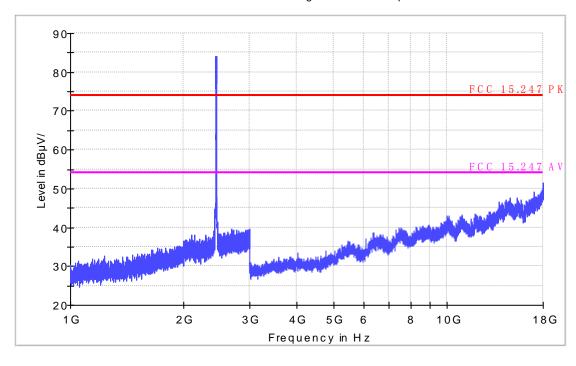
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 51 of 127

#### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11g CH6

Test Voltage: Comment:

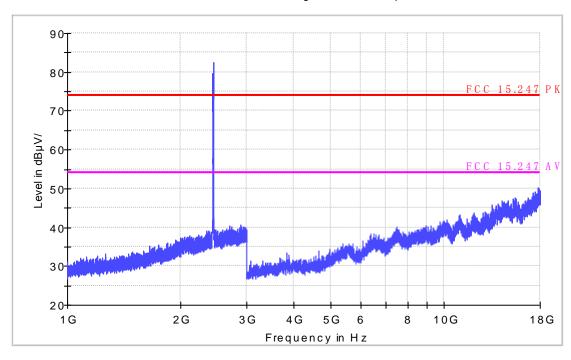
## **Common Information**

Test Site: SMQ EMC Lab.

Environment
Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 52 of 127

1-18G

CH11

11g

# **Radiated Emission**

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11g CH11

Test Voltage: Comment:

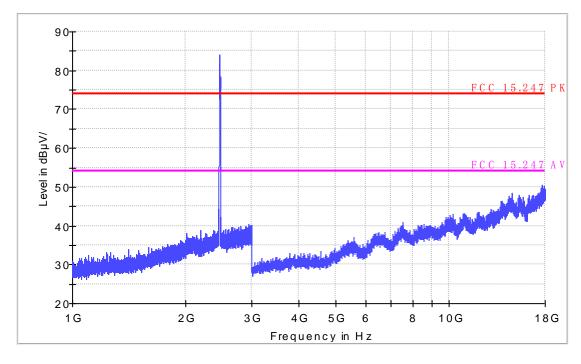
#### **Common Information**

Test Site: SMQ EMC Lab.

Environment
Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 53 of 127

#### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11g CH11

Test Voltage: Comment:

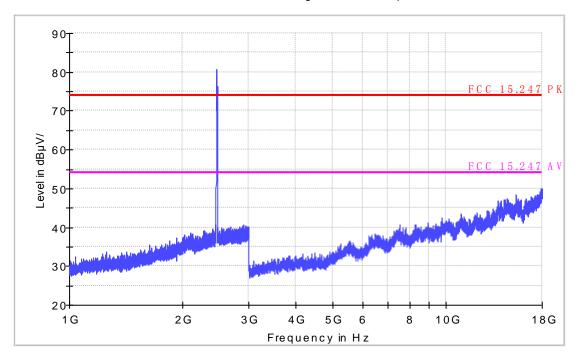
## **Common Information**

Test Site: SMQ EMC Lab.

Environment
Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 54 of 127

1-18G 11n-HT20 CH1

# **Radiated Emission**

# **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT20 CH1

Test Voltage: Comment:

## **Common Information**

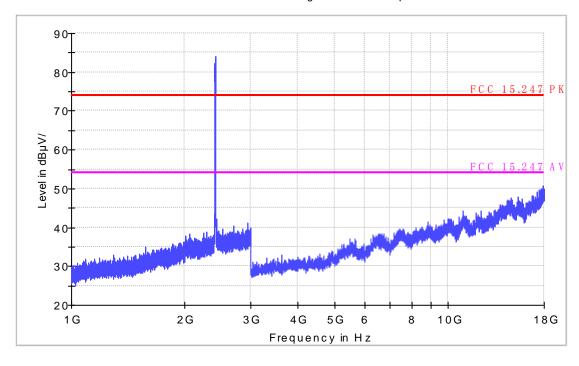
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 55 of 127

# **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT20 CH1

Test Voltage: Comment:

## **Common Information**

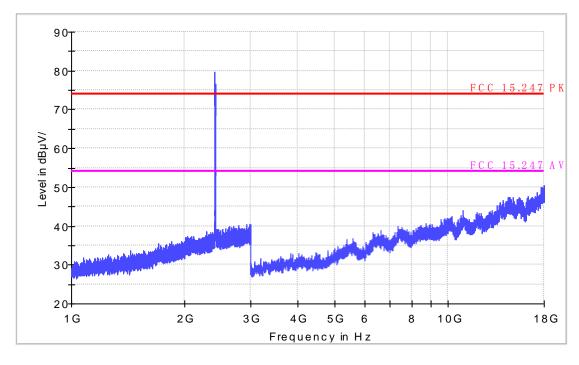
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 56 of 127

1-18G 11n-HT20 CH6

# **Radiated Emission**

# **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT20 CH6

Test Voltage: Comment:

## **Common Information**

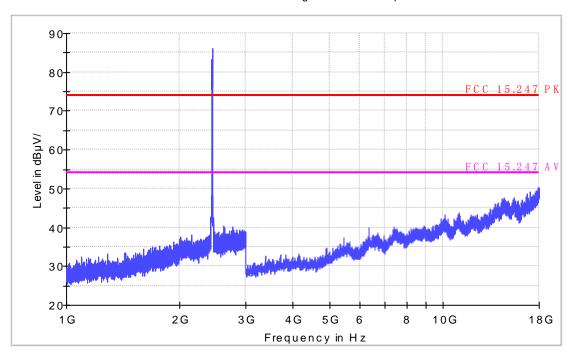
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 57 of 127

## **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT20 CH6

Test Voltage: Comment:

## **Common Information**

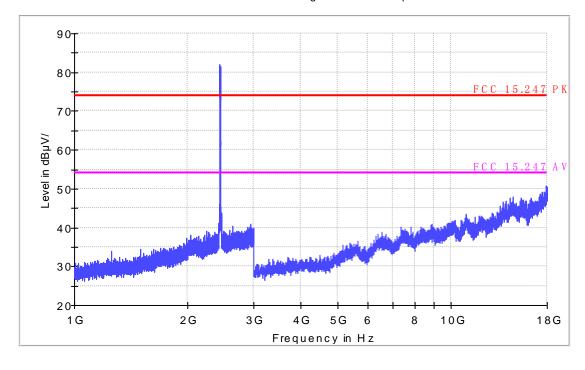
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 58 of 127

1-18G 11n-HT20 CH11

# **Radiated Emission**

# **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT20 CH11

Test Voltage: Comment:

## **Common Information**

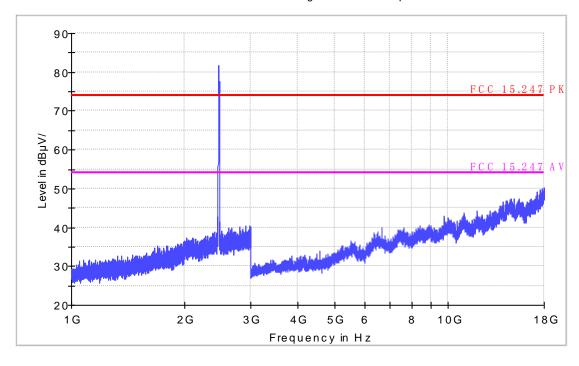
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 59 of 127

# **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT20 CH11

Test Voltage: Comment:

## **Common Information**

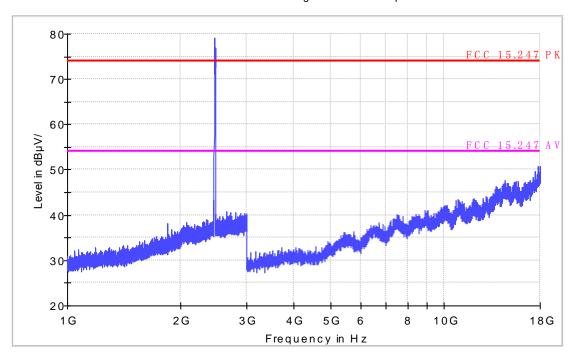
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 60 of 127

1-18G 11n-HT40 CH3

# **Radiated Emission**

# **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT40 CH3

Test Voltage: Comment:

## **Common Information**

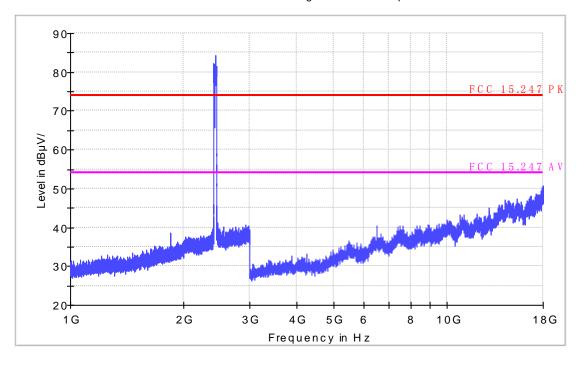
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 61 of 127

# **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT20 CH3

Test Voltage: Comment:

## **Common Information**

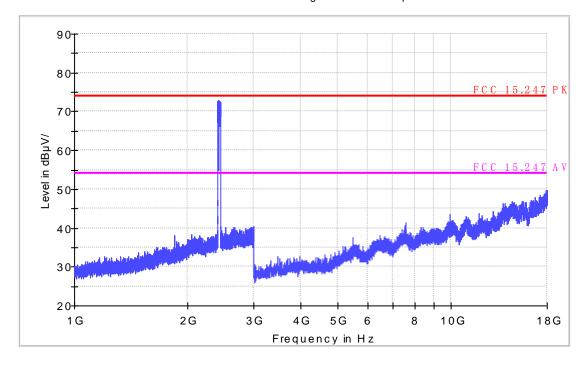
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 62 of 127

1-18G 11n-HT20 CH6

# **Radiated Emission**

# **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT40 CH6

Test Voltage: Comment:

## **Common Information**

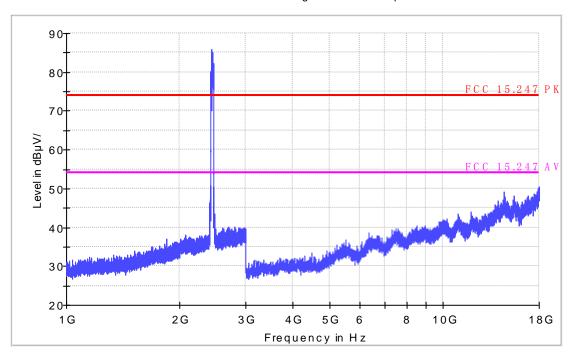
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 63 of 127

## **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT40 CH6

Test Voltage: Comment:

## **Common Information**

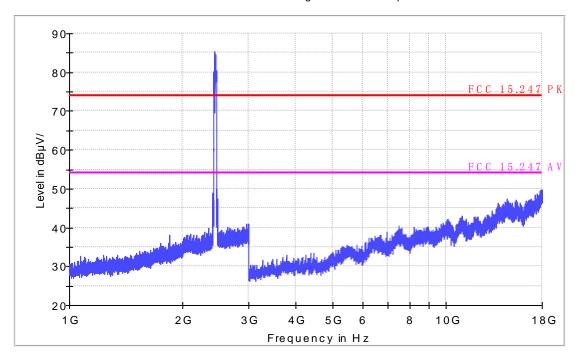
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 64 of 127

1-18G 11n-HT20 CH11

# **Radiated Emission**

# **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT40 CH9

Test Voltage: Comment:

## **Common Information**

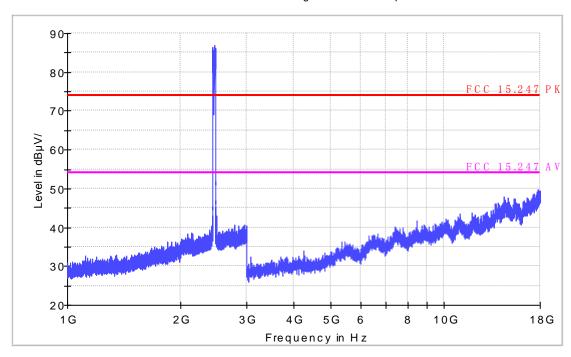
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 65 of 127

## **EUT Information**

EUT Model Name: HY1-5237

Operation mode: Wifi 11n HT40 CH9

Test Voltage: Comment:

#### **Common Information**

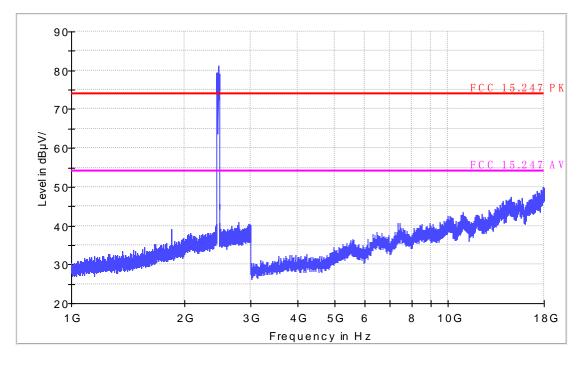
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 1-18GHz operate on 2.4GHz



Report No.:158004126 Page 66 of 127

### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11b CH1

Test Voltage: Comment:

## **Common Information**

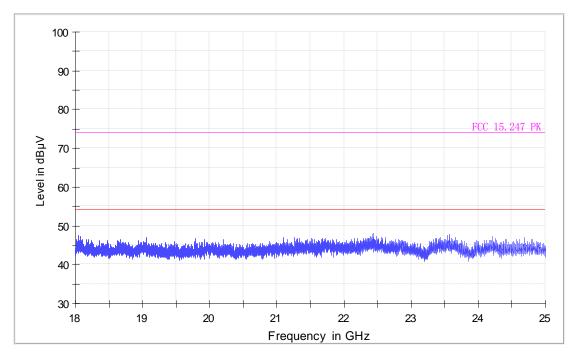
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 67 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11b CH1

Test Voltage: Comment:

## **Common Information**

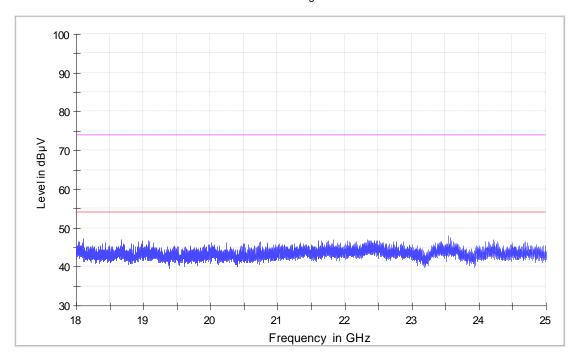
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

#### FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 68 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11b CH6

Test Voltage: Comment:

#### **Common Information**

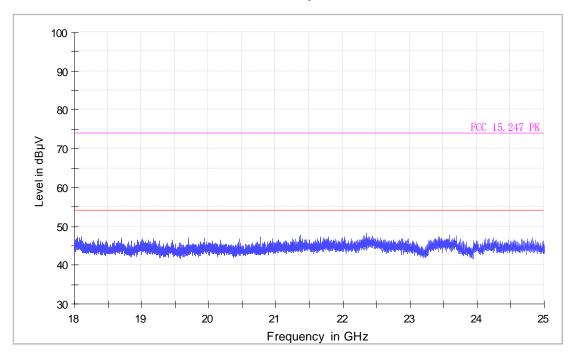
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 69 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11b CH6

Test Voltage: Comment:

#### **Common Information**

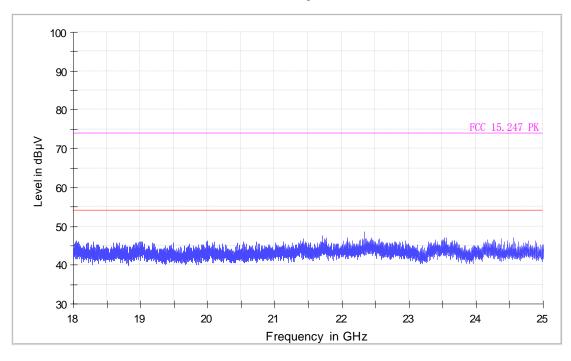
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 70 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11b CH11

Test Voltage: Comment:

#### **Common Information**

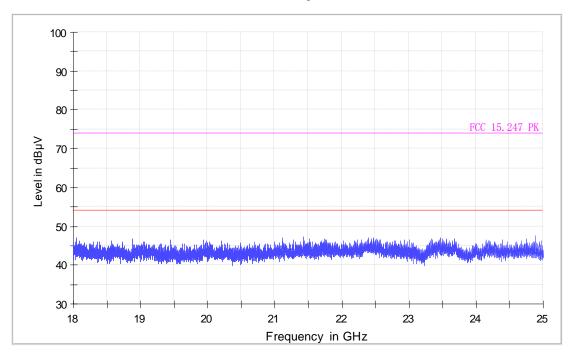
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 71 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11b CH11

Test Voltage: Comment:

# **Common Information**

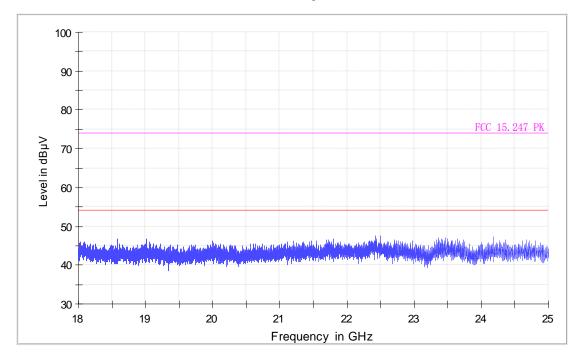
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 72 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11g CH1

Test Voltage: Comment:

# **Common Information**

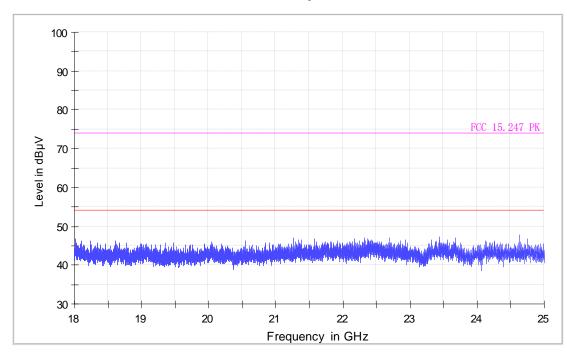
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 73 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11g CH1

Test Voltage: Comment:

# **Common Information**

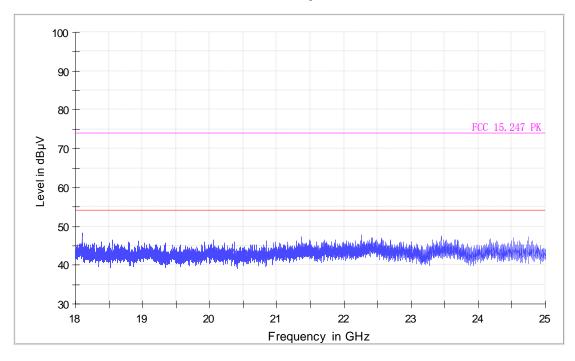
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 74 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11gCH6

Test Voltage: Comment:

#### **Common Information**

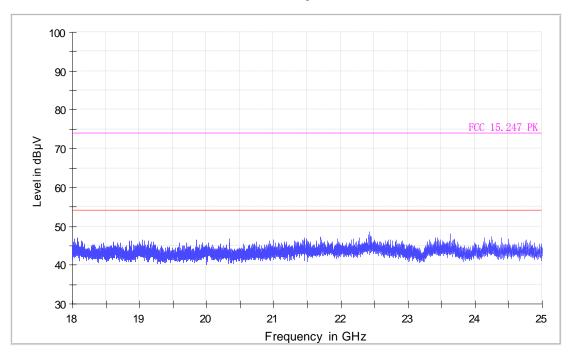
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 75 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11gCH6

Test Voltage: Comment:

#### **Common Information**

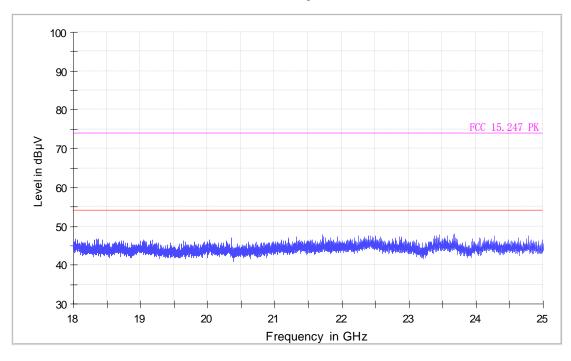
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 76 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11g CH11

Test Voltage: Comment:

#### **Common Information**

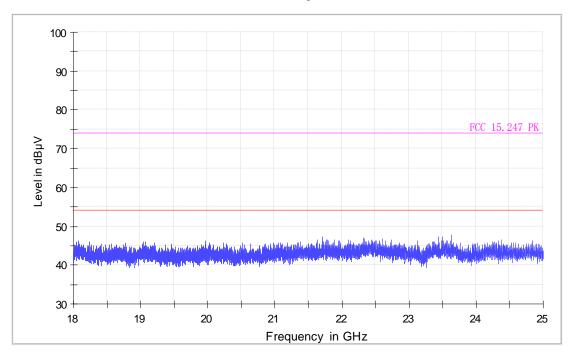
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 77 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11g CH11

Test Voltage: Comment:

#### **Common Information**

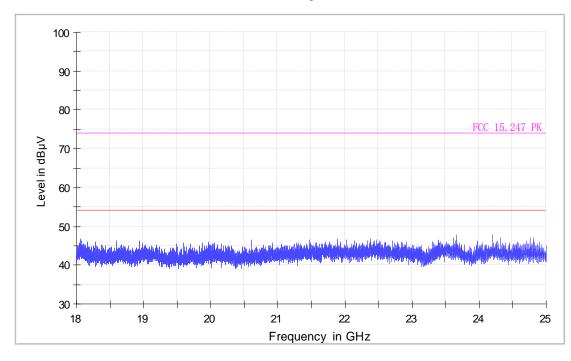
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 78 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT20 CH1

Test Voltage: Comment:

# **Common Information**

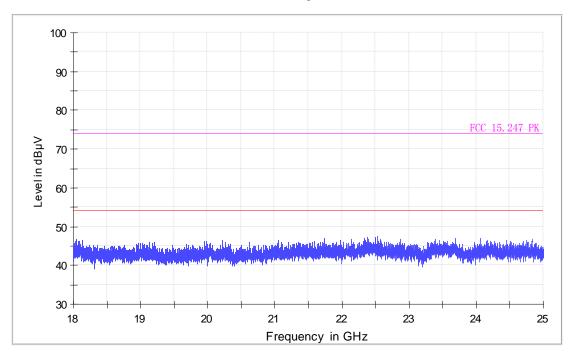
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 79 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT20 CH1

Test Voltage: Comment:

#### **Common Information**

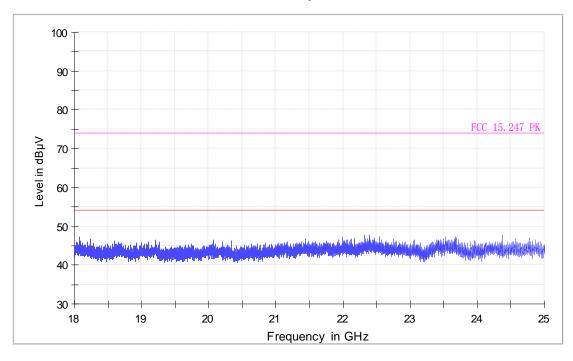
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

#### FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 80 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT20 CH6

Test Voltage: Comment:

#### **Common Information**

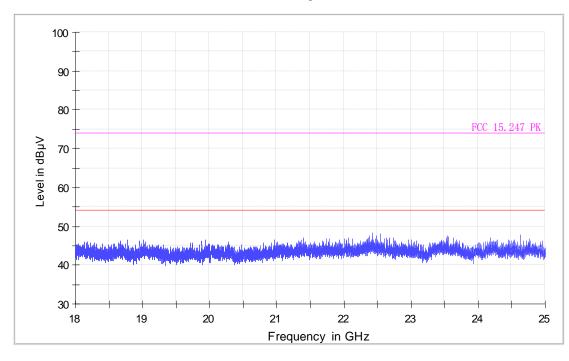
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 81 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT20 CH6

Test Voltage: Comment:

# **Common Information**

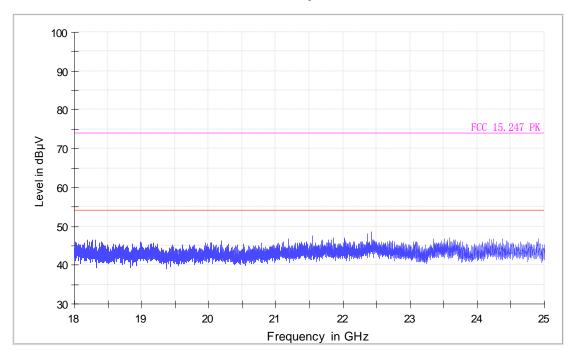
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 82 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT20 CH11

Test Voltage: Comment:

#### **Common Information**

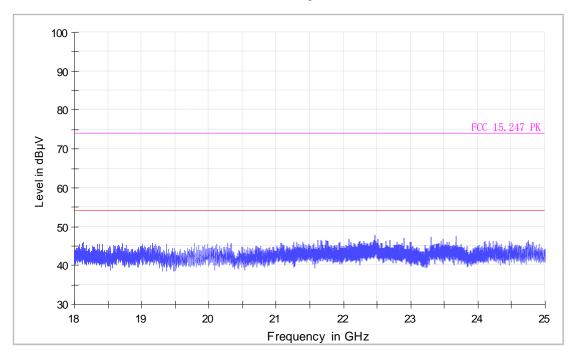
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 83 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT20 CH11

Test Voltage: Comment:

# **Common Information**

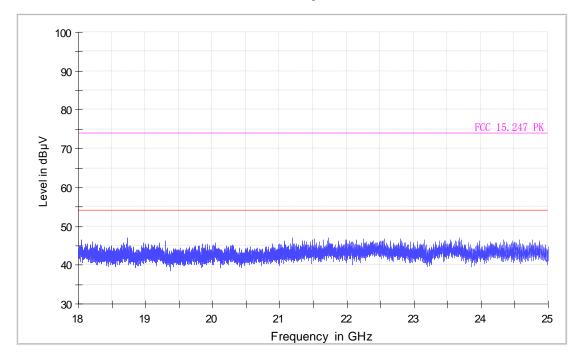
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 84 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT40 CH3

Test Voltage: Comment:

#### **Common Information**

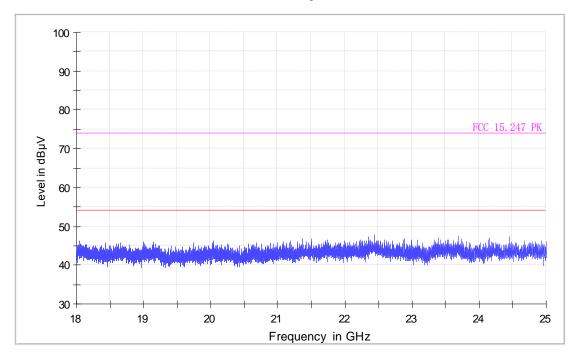
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 85 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT40 CH3

Test Voltage: Comment:

#### **Common Information**

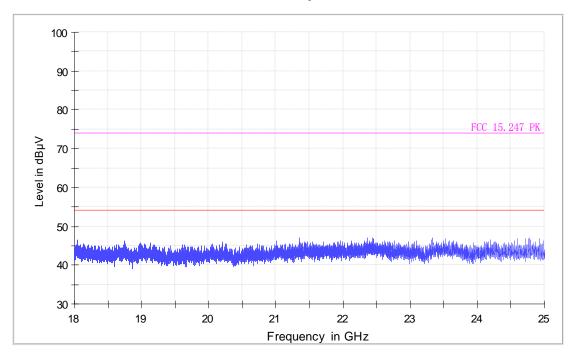
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 86 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT40 CH6

Test Voltage: Comment:

## **Common Information**

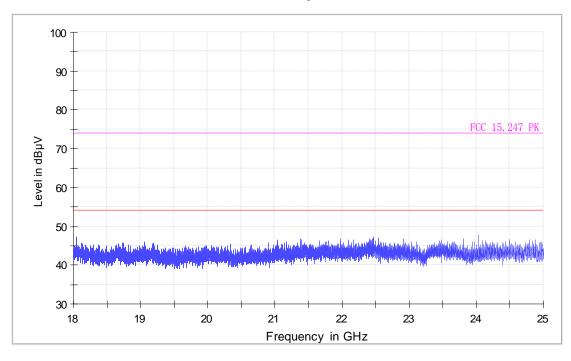
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 87 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT40 CH6

Test Voltage: Comment:

## **Common Information**

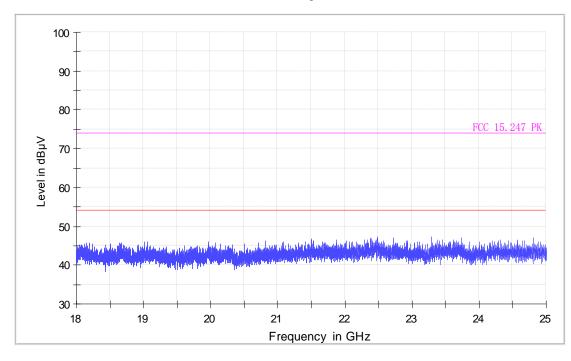
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 88 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT40 CH9

Test Voltage: Comment:

## **Common Information**

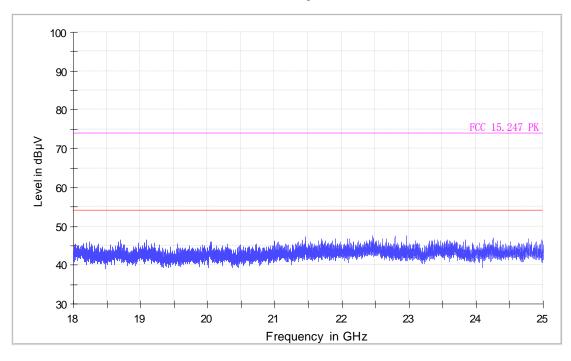
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 89 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: 11n-HT40 CH9

Test Voltage: Comment:

## **Common Information**

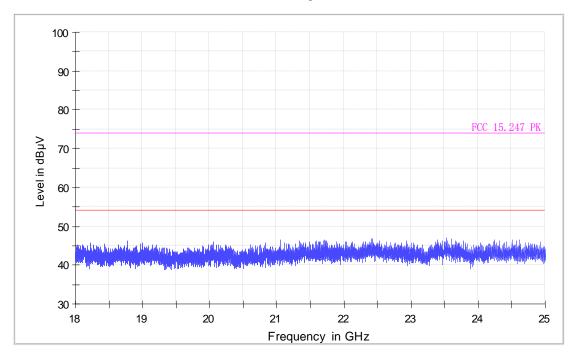
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 18-26.5GHz



Report No.:158004126 Page 90 of 127

Band edge

11b

CH1

# **Radiated Emission**

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11b CH1

Test Voltage: Comment:

## **Common Information**

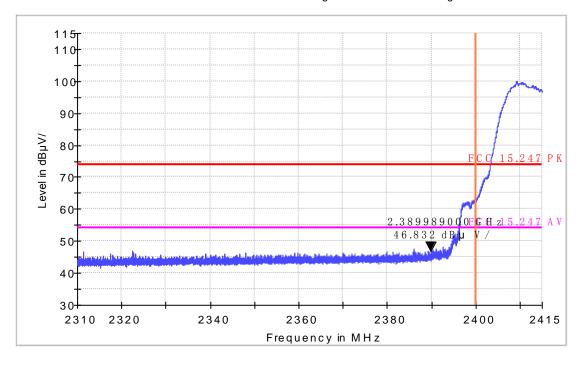
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 91 of 127

### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11b CH1

Test Voltage: Comment:

### **Common Information**

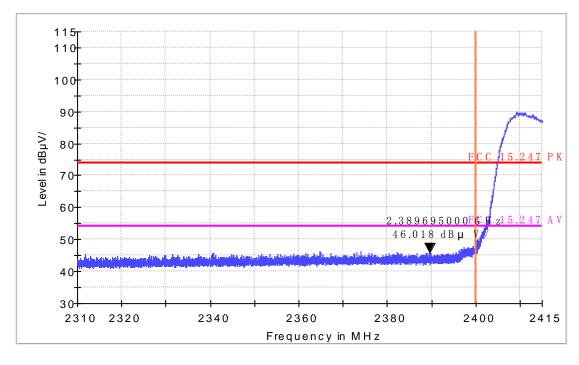
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 92 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11b CH1

Test Voltage: Comment:

## **Common Information**

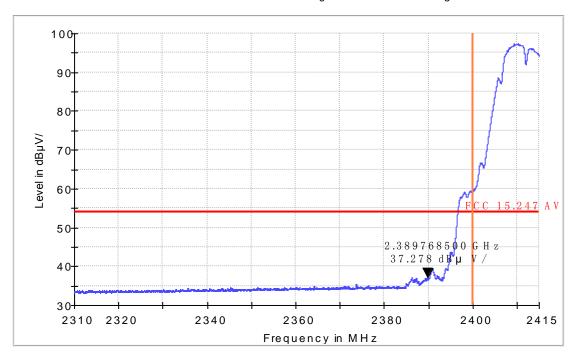
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 93 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11b CH1

Test Voltage: Comment:

## **Common Information**

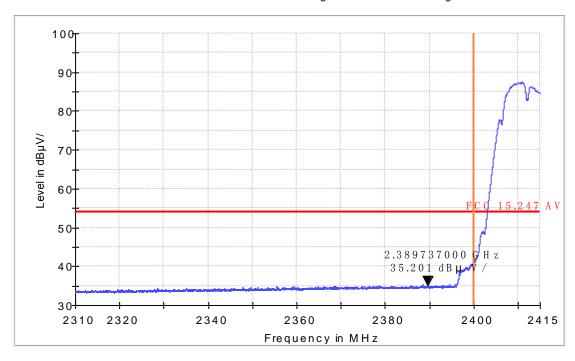
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 94 of 127

Band edge

11g

CH1

# **Radiated Emission**

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11g CH1

Test Voltage: Comment:

## **Common Information**

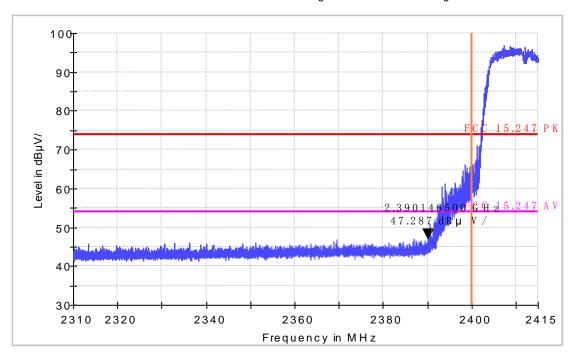
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 95 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11q CH1

Test Voltage: Comment:

## **Common Information**

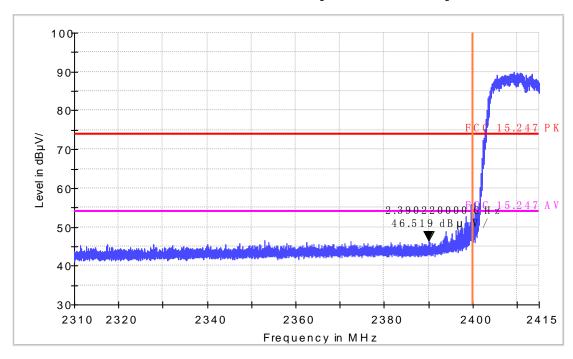
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 96 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11g CH1

Test Voltage: Comment:

## **Common Information**

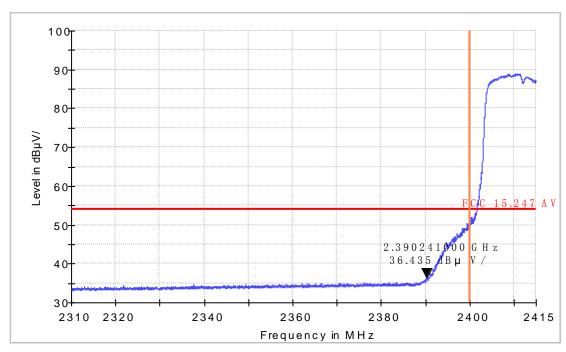
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 97 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11g CH1

Test Voltage: Comment:

### **Common Information**

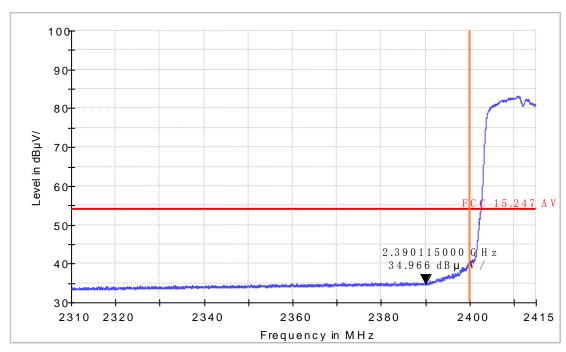
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 98 of 127

Band edge 11n-HT20 CH1

# **Radiated Emission**

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n20 CH1

Test Voltage: Comment:

## **Common Information**

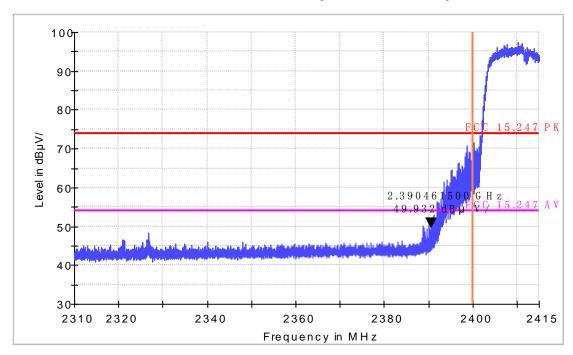
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 99 of 127

### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n20 CH1

Test Voltage: Comment:

### **Common Information**

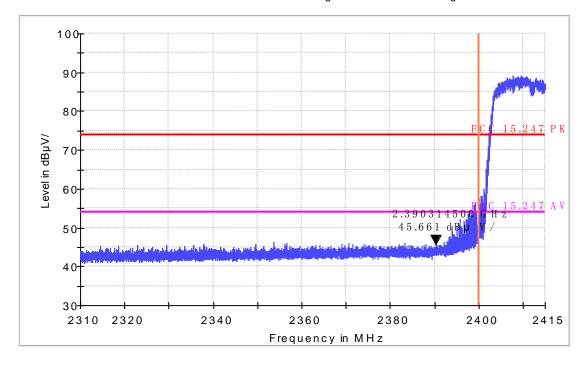
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 100 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n20 CH1

Test Voltage: Comment:

### **Common Information**

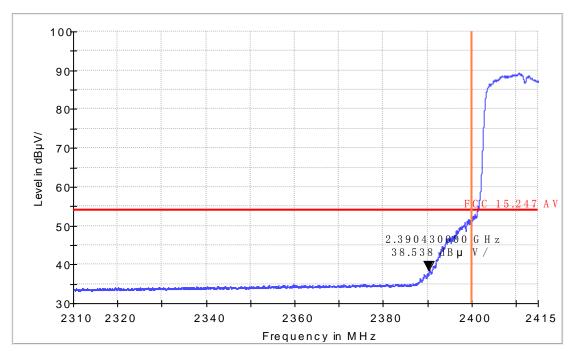
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 101 of 127

### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n20 CH1

Test Voltage: Comment:

## **Common Information**

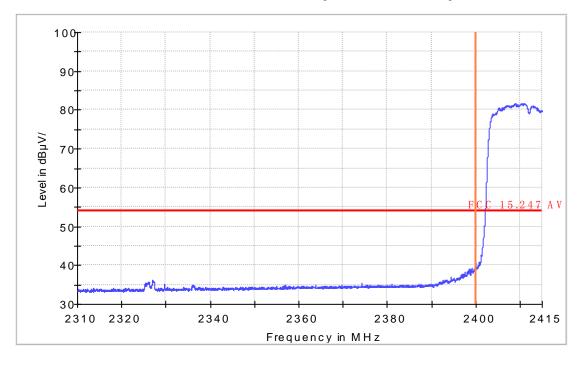
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 102 of 127

Band edge 11n-HT40 CH3

# **Radiated Emission**

### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n40 CH3

Test Voltage: Comment:

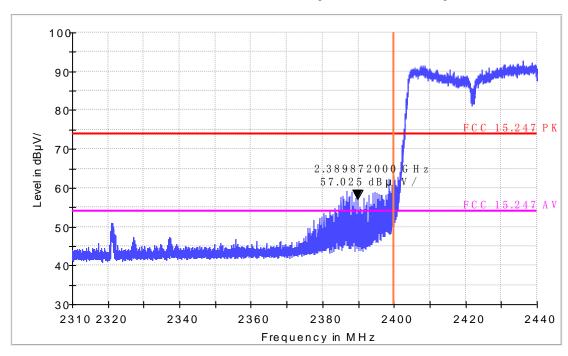
### **Common Information**

Test Site: SMQ EMC Lab. Environment

Antenna Polarization: Horizontal

Operator Name:
Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 103 of 127

### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n40 CH3

Test Voltage: Comment:

## **Common Information**

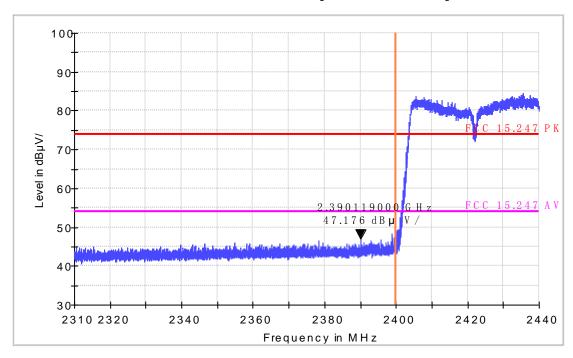
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 104 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n40 CH3

Test Voltage: Comment:

## **Common Information**

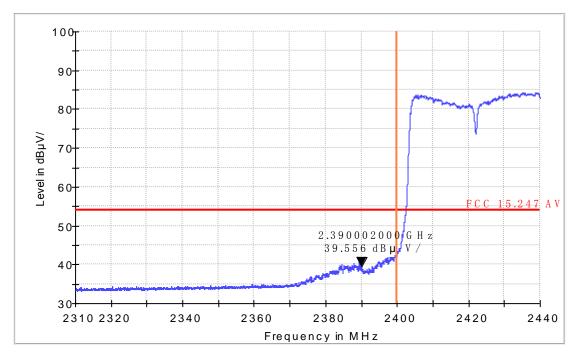
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 105 of 127

### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n40 CH3

Test Voltage: Comment:

### **Common Information**

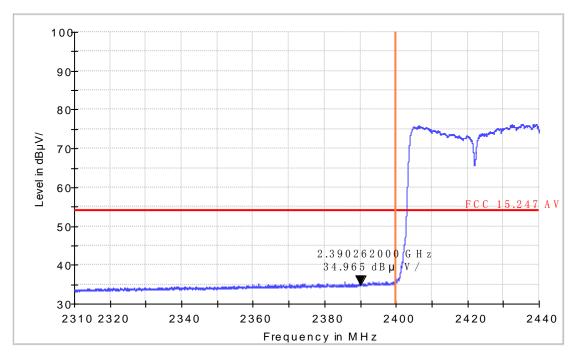
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 106 of 127

Band edge

11b

CH11

# **Radiated Emission**

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11b CH11

Test Voltage: Comment:

## **Common Information**

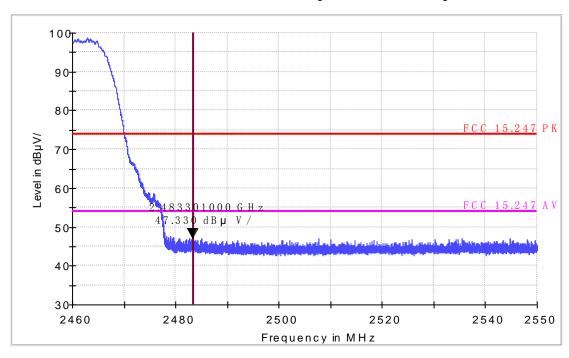
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 107 of 127

### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11b CH11

Test Voltage: Comment:

### **Common Information**

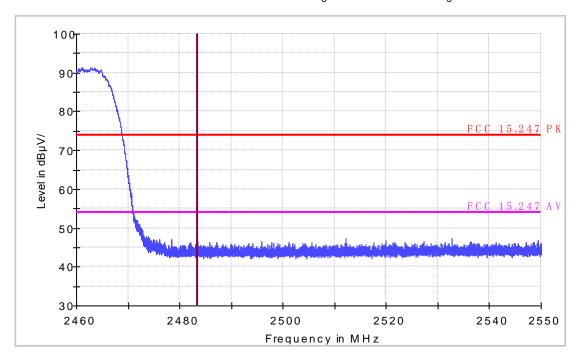
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 108 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11b CH11

Test Voltage: Comment:

## **Common Information**

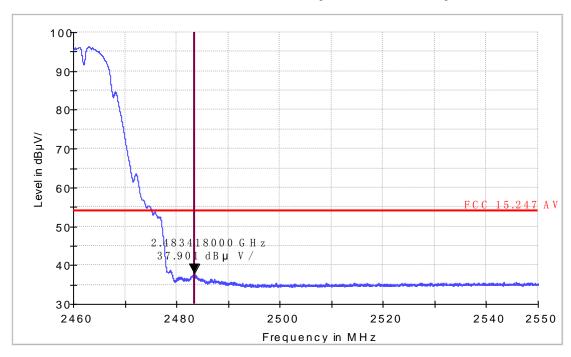
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 109 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11b CH11

Test Voltage: Comment:

## **Common Information**

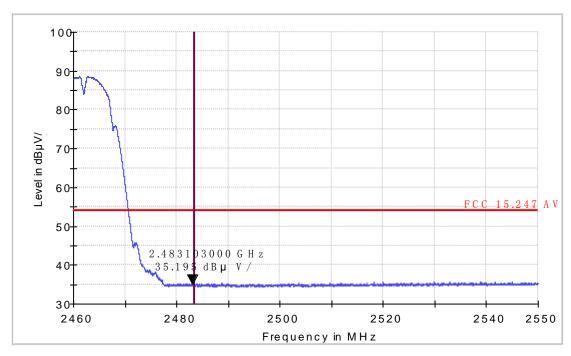
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 110 of 127

Band edge

11g

**CH11** 

# **Radiated Emission**

### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11g CH11

Test Voltage: Comment:

## **Common Information**

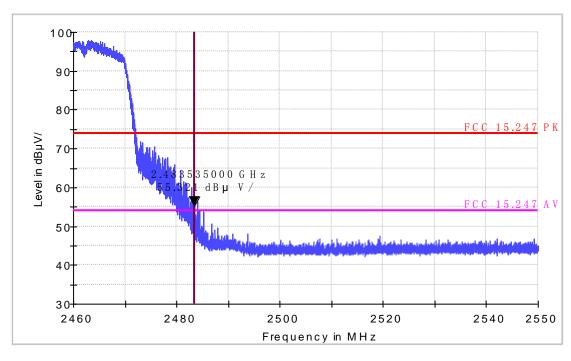
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 111 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11g CH11

Test Voltage: Comment:

## **Common Information**

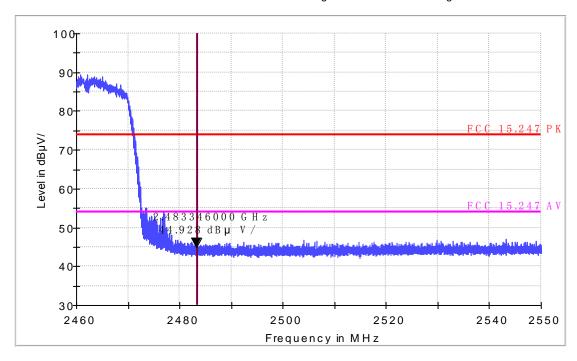
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

#### FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 112 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11g CH11

Test Voltage: Comment:

## **Common Information**

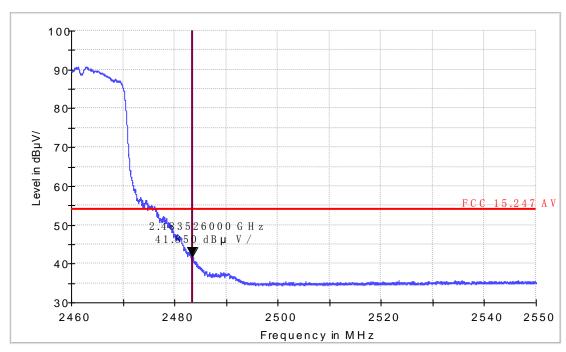
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 113 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11g CH11

Test Voltage: Comment:

### **Common Information**

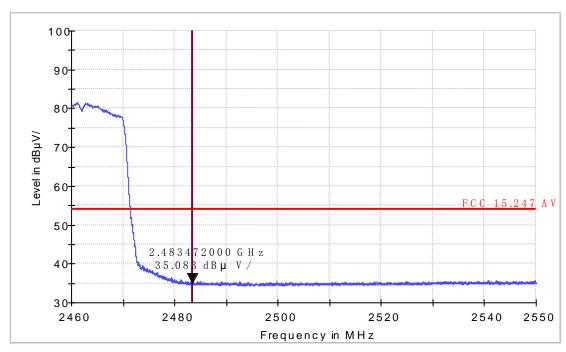
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 114 of 127

Band edge 11n-HT20 CH11

# **Radiated Emission**

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n20 CH11

Test Voltage: Comment:

## **Common Information**

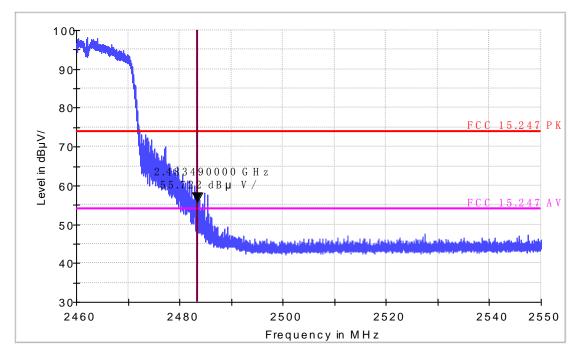
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

### FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 115 of 127

### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n20 CH11

Test Voltage: Comment:

## **Common Information**

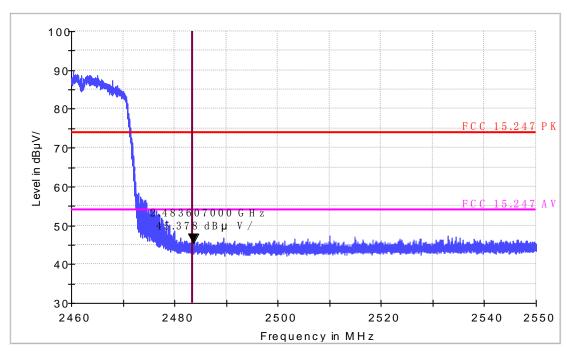
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

### FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 116 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n20 CH11

Test Voltage: Comment:

## **Common Information**

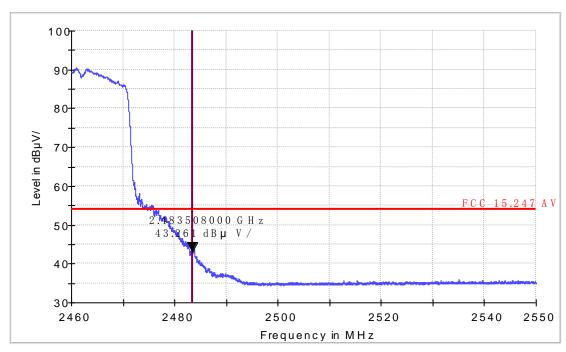
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 117 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n20 CH11

Test Voltage: Comment:

### **Common Information**

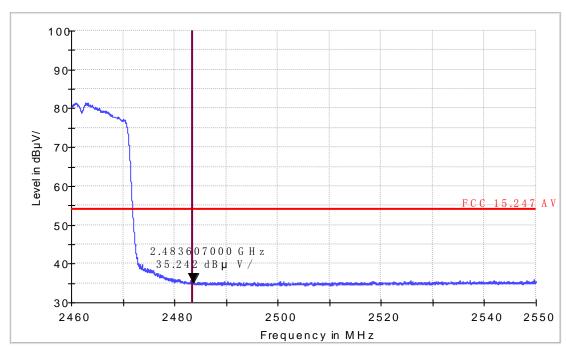
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

### FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 118 of 127

Band edge 11n-HT40 CH9

# **Radiated Emission**

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n40 CH9

Test Voltage: Comment:

## **Common Information**

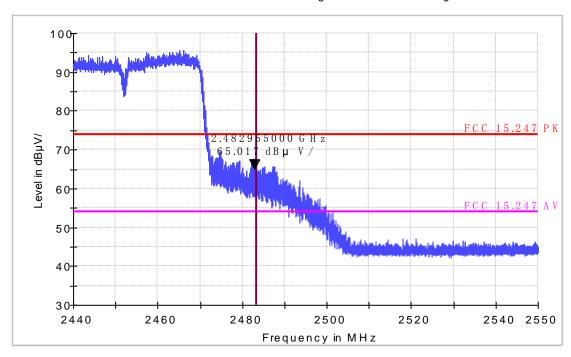
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 119 of 127

### **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n40 CH9

Test Voltage: Comment:

## **Common Information**

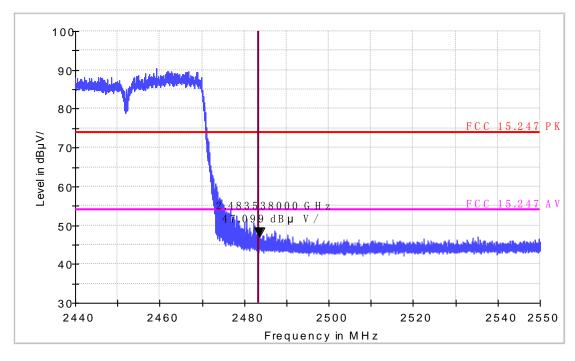
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

### FCC Electric Field Strength 2.4GHz Bandedge-PK



Report No.:158004126 Page 120 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n40 CH9

Test Voltage: Comment:

### **Common Information**

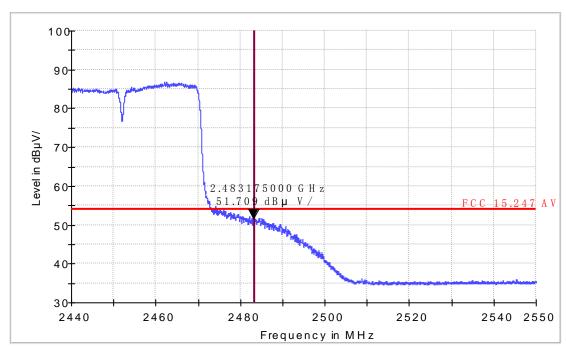
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Horizontal

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 121 of 127

## **EUT Information**

EUT Model Name: HY1-5237 Operation mode: Wifi 11n40 CH9

Test Voltage: Comment:

## **Common Information**

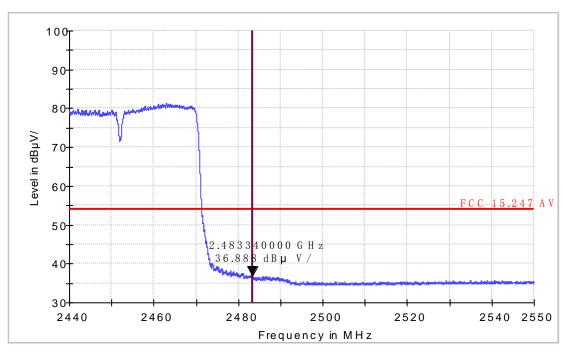
Test Site: SMQ EMC Lab.

Environment

Antenna Polarization: Vertical

Operator Name: Comment:

FCC Electric Field Strength 2.4GHz Bandedge-AV



Report No.:158004126 Page 122 of 127

### 10. CONDUCTED EMISSION TEST FOR AC POWER PORT

#### **MEASUREMENT**

### 10.1.Test Standard and Limit

10.1.1.Test Standard FCC Part 15 15.207

#### 10.1.2.Test Limit

Table 18 Conducted Disturbance Test Limit

Fraguency	Maximum RF Line Voltage (dBμV)			
Frequency	Quasi-peak Level	Average Level		
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

<sup>\*</sup> Decreasing linearly with logarithm of the frequency

### 10.2.Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. According to the requirements in Section 7 and 13 of ANSI C63.4-2003.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

The bandwidth of EMI test receiver is set at 9kHz.

#### 10.3.Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

#### 10.4.Test Data

The emissions don't show in below are too low against the limits. Refer to the test curves.

Report No.:158004126 Page 123 of 127

<sup>\*</sup> The lower limit shall apply at the transition frequency.

Table 19 Conducted Disturbance Test Data

Model No.: HY1-5237

Test mode: Charging and transmitter

	1	-	1			1		
	Frequency	Correction	Quasi-Peak		Average			
	(MHz)	Factor (dB)	Reading (dBμV)	Emission Level (dB <sub>µ</sub> V)	Limits (dBμV)	Reading (dBμV)	Emission Level (dBµV)	Limits (dBμV)
Line	0.162	9.7	40.1	49.8	65.4	22.9	32.6	55.4
	0.218	9.7	33.9	43.6	62.9	16.8	26.5	52.9
	0.238	9.7	33.2	42.9	62.2	20.6	30.3	52.2
	0.290	9.7	27.9	37.6	60.5	27.7	37.4	50.5
	0.390	9.7	29.4	39.1	58.1	17.6	27.3	48.1
	0.438	9.7	28.5	38.2	57.1	14.4	24.1	47.1
Neutral	0.154	9.7	38.2	47.9	65.8	25.9	35.6	55.8
	0.218	9.7	31.9	41.6	62.9	20.4	30.1	52.9
	0.306	9.7	25.8	35.5	60.1	16.8	26.5	50.1
	0.402	9.7	28.5	38.2	57.8	16.0	25.7	47.8
	0.542	9.8	31.2	41.0	56.0	23.9	33.7	46.0
	0.666	9.8	28.9	38.7	56.0	21.7	31.5	46.0

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)

- 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
- 3. The other emission levels were very low against the limit.

Report No.:158004126 Page 124 of 127

EUT: HY1-5237

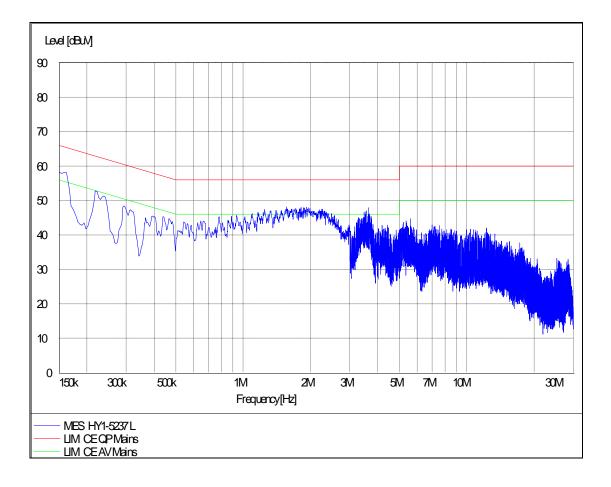
Manufacturer:

Operating Condition: Charging and transmitter

Test Site: Operator:

Test Specification: L

Comment: AC 120V/60Hz



Report No.:158004126 Page 125 of 127

EUT: HY1-5237

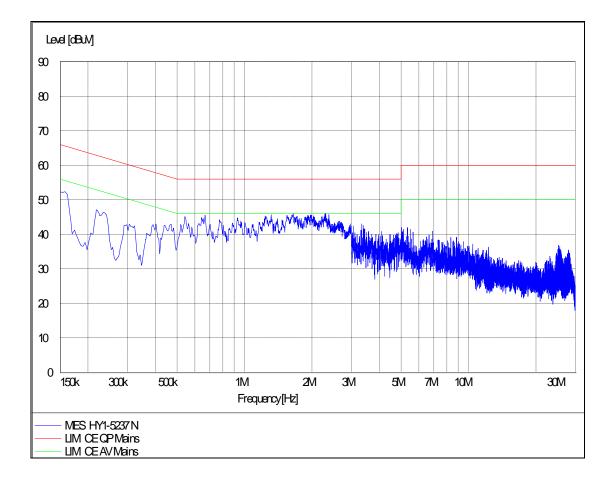
Manufacturer:

Operating Condition: Charging and transmitter

Test Site: Operator:

Test Specification: N

Comment: AC 120V/60Hz



Report No.:158004126 Page 126 of 127

### 11.ANTENNA REQUIREMENTS

### 11.1.Applicable requirements

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

#### 11.2.Antenna Connector

Antenna Connector is on the PCB within enclosure and not accessible to user.

#### 11.3.Antenna Gain

The antenna gain of EUT is less than 6 dBi.

Report No.:158004126 Page 127 of 127