



**FCC PART 15  
TEST REPORT  
No. I22Z60151-EMC07**

**for**

**Honor Device Co., Ltd.**

**Smart Phone**

**Model Name: LGE-NX9**

**FCC ID: 2AYGCLGE-NX9**

**with**

**Hardware Version: HN1LGEHM**

**Software Version: 6.0.0.108(C900E103R1P3)**

**Issued Date: 2022-04-20**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I22Z60151-EMC07	Rev.0	1 <sup>st</sup> edition	2022-04-20

## **CONTENTS**

<b>1. TEST LABORATORY .....</b>	<b>4</b>
1.1. INTRODUCTION & ACCREDITATION .....	4
1.2. TESTING LOCATION .....	4
1.3. TESTING ENVIRONMENT .....	4
1.4. PROJECT DATE .....	4
1.5. SIGNATURE .....	4
<b>2. CLIENT INFORMATION .....</b>	<b>5</b>
2.1. APPLICANT INFORMATION .....	5
2.2. MANUFACTURER INFORMATION .....	5
<b>3. PRODUCT INFORMATION .....</b>	<b>6</b>
3.1. ABOUT EUT .....	6
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST .....	6
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST .....	6
3.4. GENERAL DESCRIPTION .....	6
3.5. TEST CONFIGURATION .....	7
3.6. INTERPRETATION OF THE TEST ENVIRONMENT .....	7
<b>4. REFERENCE DOCUMENTS .....</b>	<b>8</b>
4.1. DOCUMENTS SUPPLIED BY APPLICANT .....	8
4.2. REFERENCE DOCUMENTS FOR TESTING .....	8
<b>5. SUMMARY OF TEST RESULTS .....</b>	<b>9</b>
5.1. SUMMARY OF TEST RESULTS .....	9
5.2. STATEMENTS .....	9
5.3. TEST CONDITIONS .....	9
<b>6. TEST EQUIPMENTS UTILIZED .....</b>	<b>10</b>
<b>7. MEASUREMENT UNCERTAINTY .....</b>	<b>11</b>
<b>ANNEX A: EUT PARAMETERS .....</b>	<b>12</b>
<b>ANNEX B: ANTENNA REQUIREMENTS .....</b>	<b>12</b>
<b>ANNEX C: DETAILED TEST RESULTS .....</b>	<b>13</b>
C.1. RADIATED SPURIOUS EMISSION .....	13
C.1.1 RADIATED SPURIOUS EMISSION- ABOVE 1GHZ .....	15
C.1.2 RADIATED SPURIOUS EMISSION- BELOW 1GHZ .....	29
C.1.3 RADIATED SPURIOUS EMISSION-ABOVE 18GHZ .....	31
C.1.4 BAND EDGES COMPLIANCE- RADIATED .....	32
C.2. AC POWER-LINE CONDUCTED EMISSION .....	39

## 1. TEST LABORATORY

### 1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

### 1.2. Testing Location

Location1: CTTL(BDA)

Address: No. 18A, Kangding Street, Beijing Economic-Technology Development Area, Beijing, 100176, P.R. China

Location2: CTTL (Huayuan North Road)

Address: No. 52 Huayuan North Road, Haidian District, Beijing 100191, P.R. China

### 1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

### 1.4. Project date

Testing Start Date: 2022-02-07

Testing End Date: 2022-03-25


### 1.5. Signature



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An Hui

(Prepared this test report)



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Zhang Ying

(Reviewed this test report)



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Zhang Xia

(Approved this test report)



## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

Company Name: Honor Device Co., Ltd.  
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China  
Contact: /  
Email: /  
Telephone: /

### **2.2. Manufacturer Information**

Company Name: Honor Device Co., Ltd.  
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China  
Contact: /  
Email: /  
Telephone: /

### 3. PRODUCT INFORMATION

#### 3.1. About EUT

Description	Smart Phone
Model name	LGE-NX9
FCC ID	2AYGCLGE-NX9

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of T CTTL-Telecommunication Technology Labs, CAICT

#### 3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	867843050023477/ 867843050024970	HN1LGEHM	6.0.0.108(C900E103R1P3)
EUT2	867843050056592/ 867843050057699	HN1LGEHM	6.0.0.108(C900E103R1P3)

\*EUT ID: is used to identify the test sample in the lab internally.

#### 3.3. Internal Identification of AE used during the test

AE ID*	Description	Note
AE1-1	Adapter	HN-200500U01
AE1-2	Adapter	HN-200500E01
AE1-3	Adapter	HN-200500B01
AE2-1	USB Cable	L125UC008-CS-H
AE2-2	USB Cable	AU2-CRO015HF
AE2-3	USB Cable	RY0001
AE4-1	Battery	HB586680EFW(SUNWODA)
AE4-2	Battery	HB586680EFW(SCUD)

\*AE ID: is used to identify the test sample in the lab internally.

#### 3.4. General Description

LGE-NX9 is subscriber equipment in the GSM/WCDMA/LTE/NR system. The Mobile Phone implements such functions as RF signal receiving/transmitting, NR/LTE/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, AGPS, Wi-Fi etc. dual SIM/single SIM card interface. LGE-NX9 is dual/single SIM smart phone. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet , or to exchange data with other Bluetooth devices.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

For more EUT information please refers to the manufacturer's specifications or user's manual.

### 3.5. Test Configuration

For all modes the EUT can transmit at both CHAIN A(Chain A) and CHAIN B(Chain B) RF outputs individually, and also simultaneously(MIMO).

EUT set-up No.	Combination of EUT and AE	ANT NO.
Set.1-1	EUT1 + AE1-1+AE2-1	Chain A
		Chain B
		MIMO
Set.1-2	EUT2 + AE1-1+AE2-2/AE2-3	MIMO

### 3.6. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor k=2.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

## 4. REFERENCE DOCUMENTS

### 4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

### 4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C and E: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.407 General technical requirements	2021
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

Note: The test methods have no deviation with standards.



## 5. SUMMARY OF TEST RESULTS

### 5.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15	Verdict
Radiated Spurious Emission	15.407, 15.205, 15.209	<b>P</b>
AC Power line Conducted Emission	15.407, 15.207	<b>P</b>

Please refer to **ANNEX C** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by CTTL
BR	Re-use test data from basic model report.
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

### 5.2. Statements

The test cases as listed in section 5.1 of this report for the EUT specified in section 3 was performed by CTTL and according to the standards or reference documents listed in section 4.2 The EUT met all requirements of the standards or reference documents, and only the WLAN function was tested in this report.

### 5.3. Test Conditions

For this report, if the test cases listed above are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	Normal Temperature	26°C
Voltage	Normal Voltage	4.0V
Humidity	Normal Humidity	20-75%

## 6. TEST EQUIPMENTS UTILIZED

### Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Loop Antenna	HFH2-Z2	829324/007	R&S	1 year	2022-12-22
2	EMI Antenna	3115	00167250	ETS-Lindgren	1 year	2022-07-01
3	EMI Antenna	VULB9163	9163-483	Schwarzbeck	1 year	2022-08-24
4	Test Receiver	ESW44	103023	R&S	1 year	2022-10-28
5	EMI Antenna	LB-18040025 -C-KF	2110084000 006	A-INFO	1 year	2023-02-23
6	Analytical Spectrometer	FSV40	101047	R&S	1 year	2022-06-02

### AC Powerline Conducted Emission

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	LISN	ENV216	101200	Rohde & Schwarz	1 year	2022-05-30
2	Test Receiver	ESCI 7	100344	Rohde & Schwarz	1 year	2023-02-21

## 7. Measurement Uncertainty

### Radiated Spurious Emission

(k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.16
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.74
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.28

### AC Power-line Conducted Emission

Measurement Uncertainty: 3.08dB,k=2

## **ANNEX A: EUT parameters**

Disclaimer: The antenna gain and setting power provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

## **ANNEX B: Antenna Requirements**

According to FCC 47 CFR § 15.203, §15.407:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- (1) The antennas of the EUT are permanently attached.
- (2) The EUT complies with the requirement of §15.203, §15.407.

## **ANNEX C: Detailed Test Results**

### **C.1. Radiated Spurious Emission**

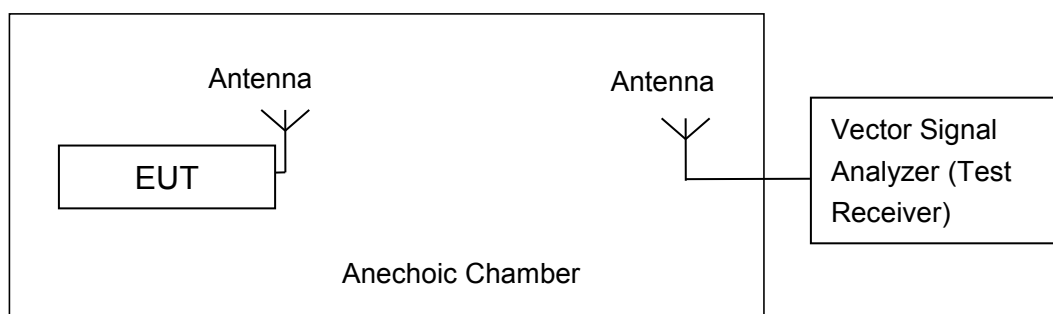
#### **Specification Reference**

FCC 47 CFR Part 15, Clause 15.407 (b) Clause 15.205 Clause 15.209

#### **Method of Measurement**

Testing was performed in according with ANSI C63.10-2013 and KDB 789033.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.



#### **Measurement Limit**

<b>Standard</b>	<b>Limit (dBm/MHz)</b>	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
	Note: Increasing linearly from point to point.	

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency (MHz)	Field strength( $\mu$ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength(dB $\mu$ V/m)	Measurement distance(m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

### **Test settings**

Frequency of emission (MHz)	RBW/VBW
30-1000	100kHz/300kHz
1000-4000	1MHz/3MHz
4000-18000	1MHz/3MHz
18000-26500	1MHz/3MHz
26500-40000	1MHz/3MHz

### **Sample Calculation**

1. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log(D) + 104.77$$

Where:

$E$  is the field strength in dB $\mu$ V/m

$D$  is the measurement distance in meters

EIRP is the equivalent isotropically radiated power in dbm

2. The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}} = P_{\text{Mea}} + \text{Cable Loss} + \text{Antenna Factor}$$

A "reference path loss" is established and the  $A_{\text{Rpl}}$  is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

$P_{\text{Mea}}$  is the field strength recorded from the instrument.

### **Test Notes**

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all channel, modes and modulations/data rates. Only the radiated emissions of the configurations that produced the worst case emissions are reported in this section.
3. For EUT1 with were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this report. For EUT2 were performed separately in MIMO (Chain A+B), and only the worst cases are shown in this report.

### C.1.1 Radiated Spurious Emission- above 1GHz

EUT set-up No.	Combination of EUT and AE	ANT NO.
Set.1-1	EUT1 + AE1-1+AE2-1	Chain A
		Chain B
		MIMO
Set.1-2	EUT2 + AE1-1+AE2-2/AE2-3	MIMO

For EUT1 with were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this report. For EUT2 were performed separately in MIMO (Chain A+B), and only the worst cases are shown in this report.

#### Results Set.1-1, MIMO

##### Average Results:

##### 802.11a

##### Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17983.000	41.89	-25.50	46.66	20.73	54.00	12.11	V
17967.500	41.86	-25.50	46.66	20.70	54.00	12.14	H
16050.200	38.66	-27.35	38.54	27.47	54.00	15.34	V
16047.500	38.58	-27.35	38.54	27.39	54.00	15.42	V
12000.000	36.38	-31.48	39.09	28.77	54.00	17.62	V
11991.800	36.29	-31.48	39.09	28.68	54.00	17.71	V

##### Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.000	42.43	-25.50	46.66	21.27	54.00	11.57	V
17946.100	41.99	-25.50	46.66	20.83	54.00	12.01	H
16063.500	38.58	-26.77	38.93	26.42	54.00	15.42	H
16056.900	38.51	-27.35	38.54	27.32	54.00	15.49	H
11882.900	36.24	-31.85	39.05	29.04	54.00	17.76	V
11931.900	36.24	-31.48	39.09	28.63	54.00	17.76	H

##### Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.300	42.04	-25.50	46.66	20.88	54.00	11.96	H
17995.000	42.02	-25.50	46.66	20.86	54.00	11.98	H
16069.500	38.54	-26.77	38.93	26.38	54.00	15.46	H
16054.100	38.47	-27.35	38.54	27.28	54.00	15.53	H
11051.300	36.38	-32.49	38.72	30.14	54.00	17.62	H
11958.200	36.34	-31.48	39.09	28.73	54.00	17.66	H

**802.11n-HT20**

## Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17932.900	42.00	-25.50	46.66	20.84	54.00	12.00	V
17927.400	41.84	-25.50	46.66	20.68	54.00	12.16	H
16047.000	38.83	-27.35	38.54	27.64	54.00	15.17	V
16156.400	38.62	-26.77	38.93	26.46	54.00	15.38	V
11925.800	36.39	-31.48	39.09	28.78	54.00	17.61	H
11937.400	36.32	-31.48	39.09	28.71	54.00	17.68	H

## Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17973.600	42.54	-25.50	46.66	21.38	54.00	11.46	V
17980.200	42.01	-25.50	46.66	20.85	54.00	11.99	H
16058.000	38.53	-26.77	38.93	26.37	54.00	15.47	H
16137.700	38.46	-26.77	38.93	26.30	54.00	15.54	H
11890.600	36.52	-31.85	39.05	29.32	54.00	17.48	V
11047.500	36.35	-32.49	38.72	30.11	54.00	17.65	H

## Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17946.100	42.12	-25.50	46.66	20.96	54.00	11.88	H
17997.200	42.10	-25.50	46.66	20.94	54.00	11.90	H
16143.800	38.64	-26.77	38.93	26.48	54.00	15.36	H
16069.000	38.60	-26.77	38.93	26.44	54.00	15.40	H
11919.800	36.33	-31.48	39.09	28.72	54.00	17.67	H
11970.400	36.31	-31.48	39.09	28.70	54.00	17.69	H



**802.11n-HT40**

## Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.800	41.91	-25.50	46.66	20.75	54.00	12.09	V
17981.300	41.89	-25.50	46.66	20.73	54.00	12.11	H
16153.600	38.48	-26.77	38.93	26.32	54.00	15.52	V
16146.500	38.43	-26.77	38.93	26.27	54.00	15.57	V
11962.600	36.45	-31.48	39.09	28.84	54.00	17.55	H
10961.600	36.28	-32.82	38.70	30.40	54.00	17.72	H

## Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.800	42.14	-25.50	46.66	20.98	54.00	11.86	V
17996.200	41.86	-25.50	46.66	20.70	54.00	12.14	H
16146.000	38.60	-26.77	38.93	26.44	54.00	15.40	V
16132.200	38.41	-26.77	38.93	26.25	54.00	15.59	V
11054.000	36.43	-32.49	38.72	30.19	54.00	17.57	V
11519.400	36.12	-32.26	38.84	29.55	54.00	17.88	H

**802.11ac-HT20**

## Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.200	42.13	-25.50	46.66	20.97	54.00	11.87	H
17958.800	42.11	-25.50	46.66	20.95	54.00	11.89	V
16065.100	38.72	-26.77	38.93	26.56	54.00	15.28	H
16145.400	38.71	-26.77	38.93	26.55	54.00	15.29	H
11961.500	36.62	-31.48	39.09	29.01	54.00	17.38	H
10867.600	36.40	-32.33	38.59	30.14	54.00	17.60	H

## Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.200	42.31	-25.50	46.66	21.15	54.00	11.69	V
17991.800	42.19	-25.50	46.66	21.03	54.00	11.81	V
15978.200	38.47	-27.35	38.54	27.28	54.00	15.53	V
16145.400	38.45	-26.77	38.93	26.29	54.00	15.55	V
11962.600	36.19	-31.48	39.09	28.58	54.00	17.81	H
11530.400	36.10	-32.26	38.84	29.53	54.00	17.90	H

## Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17799.800	42.00	-25.50	46.66	20.84	54.00	12.00	V
17925.800	41.96	-25.50	46.66	20.80	54.00	12.04	H
16153.100	38.55	-26.77	38.93	26.39	54.00	15.45	H
16152.500	38.48	-26.77	38.93	26.32	54.00	15.52	H
11994.500	36.45	-31.48	39.09	28.84	54.00	17.55	V
11855.400	36.34	-31.85	39.05	29.14	54.00	17.66	H

**802.11ac-HT40**

## Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.800	41.92	-25.50	46.66	20.76	54.00	12.08	V
17710.200	41.91	-25.74	45.95	21.70	54.00	12.09	V
16156.400	38.64	-26.77	38.93	26.48	54.00	15.36	H
16055.200	38.42	-27.35	38.54	27.23	54.00	15.58	V
11781.700	36.22	-31.99	38.98	29.23	54.00	17.78	H
11054.600	36.18	-32.49	38.72	29.94	54.00	17.82	V

## Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17927.400	41.94	-25.50	46.66	20.78	54.00	12.06	H
17941.700	41.94	-25.50	46.66	20.78	54.00	12.06	H
16147.000	38.56	-26.77	38.93	26.40	54.00	15.44	V
16049.100	38.51	-27.35	38.54	27.32	54.00	15.49	H
11959.400	36.26	-31.48	39.09	28.65	54.00	17.74	H
11978.600	36.22	-31.48	39.09	28.61	54.00	17.78	H

**802.11ac-HT80**

## Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.500	41.95	-25.50	46.66	20.79	54.00	12.05	V
17991.200	41.95	-25.50	46.66	20.79	54.00	12.05	V
16066.800	38.47	-26.77	38.93	26.31	54.00	15.53	V
15976.000	38.46	-27.35	38.54	27.27	54.00	15.54	H
11537.500	36.29	-32.26	38.84	29.72	54.00	17.71	V
11902.100	36.14	-31.85	39.05	28.94	54.00	17.86	V

**802.11ax-HT20**

## Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17936.200	42.06	-25.50	46.66	20.90	54.00	11.94	V
17998.300	41.90	-25.50	46.66	20.74	54.00	12.10	V
15981.000	38.61	-27.35	38.54	27.42	54.00	15.39	V
16146.000	38.53	-26.77	38.93	26.37	54.00	15.47	H
11995.600	36.50	-31.48	39.09	28.89	54.00	17.50	V
11853.800	36.33	-31.85	39.05	29.13	54.00	17.67	V

## Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17983.000	42.16	-25.50	46.66	21.00	54.00	11.84	H
17995.000	42.01	-25.50	46.66	20.85	54.00	11.99	H
16055.200	38.76	-27.35	38.54	27.57	54.00	15.24	H
15957.300	38.63	-27.35	38.54	27.44	54.00	15.37	H
11049.600	36.62	-32.49	38.72	30.38	54.00	17.38	H
11058.500	36.17	-32.49	38.72	29.93	54.00	17.83	V

## Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.000	42.24	-25.50	46.66	21.08	54.00	11.76	H
17989.000	42.03	-25.50	46.66	20.87	54.00	11.97	H
16059.600	38.48	-26.77	38.93	26.32	54.00	15.52	V
16143.200	38.48	-26.77	38.93	26.32	54.00	15.52	V
11929.100	36.24	-31.48	39.09	28.63	54.00	17.76	H
11925.200	36.16	-31.48	39.09	28.55	54.00	17.84	H

**802.11ax-HT40**

## Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.000	42.14	-25.50	46.66	20.98	54.00	11.86	V
17720.600	41.97	-25.74	45.95	21.76	54.00	12.03	V
16142.100	38.54	-26.77	38.93	26.38	54.00	15.46	H
15968.300	38.51	-27.35	38.54	27.32	54.00	15.49	V
11996.200	36.38	-31.48	39.09	28.77	54.00	17.62	V
11526.000	36.35	-32.26	38.84	29.78	54.00	17.65	V

## Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.200	42.05	-25.50	46.66	20.89	54.00	11.95	V
17997.800	41.96	-25.50	46.66	20.80	54.00	12.04	V
16076.600	38.65	-26.77	38.93	26.49	54.00	15.35	H
16063.500	38.43	-26.77	38.93	26.27	54.00	15.57	V
11940.100	36.43	-31.48	39.09	28.82	54.00	17.57	V
11858.700	36.30	-31.85	39.05	29.10	54.00	17.70	V

**802.11ax-HT80**

## Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.300	42.30	-25.50	46.66	21.14	54.00	11.70	V
17986.200	42.10	-25.50	46.66	20.94	54.00	11.90	V
16148.700	38.67	-26.77	38.93	26.51	54.00	15.33	H
16071.700	38.63	-26.77	38.93	26.47	54.00	15.37	V
11881.200	36.36	-31.85	39.05	29.16	54.00	17.64	H
11917.500	36.30	-31.48	39.09	28.69	54.00	17.70	V

**Peak Results:**
**802.11a**

## Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17802.000	53.20	-25.50	46.66	32.04	74.00	20.80	V
17996.700	52.80	-25.50	46.66	31.64	74.00	21.20	H
16560.700	51.09	-26.87	40.65	37.31	68.30	17.21	V
16587.600	50.82	-26.87	40.65	37.04	68.30	17.48	V
10240.000	47.19	-33.33	38.15	42.37	68.30	21.11	V
10727.400	47.18	-32.77	38.49	41.46	74.00	26.82	V

## Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17598.500	52.75	-25.74	45.95	32.54	68.30	15.55	V
17515.500	52.52	-26.85	45.25	34.12	68.30	15.78	V
16590.300	51.04	-26.87	40.65	37.26	68.30	17.26	H
16565.000	50.91	-26.87	40.65	37.13	68.30	17.39	V
11869.100	47.12	-31.85	39.05	39.92	74.00	26.88	V
11924.100	46.99	-31.48	39.09	39.38	74.00	27.01	V

## Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17247.600	52.92	-25.95	44.35	34.51	68.30	15.38	V
17994.000	52.00	-25.50	46.66	30.84	74.00	22.00	H
16561.200	50.89	-26.87	40.65	37.11	68.30	17.41	H
16575.000	50.76	-26.87	40.65	36.98	68.30	17.54	H
11835.000	47.12	-31.85	39.05	39.92	74.00	26.88	H
11534.200	46.95	-32.26	38.84	40.38	74.00	27.05	H

**802.11n-HT20**

## Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17882.800	52.74	-25.50	46.66	31.58	74.00	21.26	H
17790.500	52.47	-25.50	46.66	31.31	74.00	21.53	V
16589.800	52.09	-26.87	40.65	38.31	68.30	16.21	V
16967.700	51.67	-26.32	42.36	35.62	68.30	16.63	H
11863.600	47.79	-31.85	39.05	40.59	74.00	26.21	V
11050.800	47.55	-32.49	38.72	41.31	74.00	26.45	H

## Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17938.400	52.62	-25.50	46.66	31.46	74.00	21.38	H
17963.700	52.55	-25.50	46.66	31.39	74.00	21.45	H
16566.200	51.43	-26.87	40.65	37.65	68.30	16.87	H
16824.700	51.10	-26.62	41.49	36.23	68.30	17.20	V
11932.400	46.90	-31.48	39.09	39.29	74.00	27.10	V
11995.100	46.78	-31.48	39.09	39.17	74.00	27.22	V

## Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17719.000	52.52	-25.74	45.95	32.31	74.00	21.48	V
17895.500	52.24	-25.50	46.66	31.08	74.00	21.76	H
16581.500	51.75	-26.87	40.65	37.97	68.30	16.55	H
16599.700	51.44	-26.87	40.65	37.66	68.30	16.86	V
11037.500	46.92	-32.49	38.72	40.68	74.00	27.08	V
11572.700	46.72	-32.31	38.91	40.13	74.00	27.28	V

**802.11n-HT40**

## Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17257.500	52.52	-25.95	44.35	34.11	68.30	15.78	V
17769.500	52.31	-25.50	46.66	31.15	74.00	21.69	H
16559.500	51.13	-26.87	40.65	37.35	68.30	17.17	V
16554.600	50.75	-26.87	40.65	36.97	68.30	17.55	H
11820.200	46.91	-31.85	39.05	39.71	74.00	27.09	V
11041.400	46.71	-32.49	38.72	40.47	74.00	27.29	V

## Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17296.500	52.44	-25.95	44.35	34.03	68.30	15.86	H
17775.000	52.12	-25.50	46.66	30.96	74.00	21.88	H
16928.000	51.36	-26.32	42.36	35.31	68.30	16.94	V
16578.800	51.18	-26.87	40.65	37.40	68.30	17.12	V
11846.000	47.45	-31.85	39.05	40.25	74.00	26.55	H
11533.100	47.39	-32.26	38.84	40.82	74.00	26.61	V



**802.11ac-HT20**

## Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17423.000	52.67	-26.85	45.25	34.27	68.30	15.63	V
17983.500	52.54	-25.50	46.66	31.38	74.00	21.46	V
16958.800	50.83	-26.32	42.36	34.78	68.30	17.47	V
13569.200	50.80	-29.50	40.43	39.87	68.30	17.50	V
11033.100	47.13	-32.49	38.72	40.89	74.00	26.87	V
11880.700	47.00	-31.85	39.05	39.80	74.00	27.00	H

## Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17384.500	53.33	-25.95	44.35	34.92	68.30	14.97	H
17227.200	52.23	-25.95	44.35	33.82	68.30	16.07	V
16584.800	51.07	-26.87	40.65	37.29	68.30	17.23	H
16951.200	50.93	-26.32	42.36	34.88	68.30	17.37	V
11865.900	47.81	-31.85	39.05	40.61	74.00	26.19	V
11917.500	46.47	-31.48	39.09	38.86	74.00	27.53	H

## Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17944.500	52.52	-25.50	46.66	31.36	74.00	21.48	H
17758.000	52.51	-25.50	46.66	31.35	74.00	21.49	V
16559.500	51.41	-26.87	40.65	37.63	68.30	16.89	H
16818.000	50.80	-26.62	41.49	35.93	68.30	17.50	H
11460.000	47.06	-32.26	38.84	40.49	74.00	26.94	H
11885.600	46.71	-31.85	39.05	39.51	74.00	27.29	H

**802.11ac-HT40**

## Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17935.700	52.63	-25.50	46.66	31.47	74.00	21.37	H
17818.000	52.32	-25.50	46.66	31.16	74.00	21.68	H
13647.300	51.24	-29.50	40.43	40.31	68.30	17.06	V
16587.600	51.05	-26.87	40.65	37.27	68.30	17.25	V
11920.900	47.03	-31.48	39.09	39.42	74.00	26.97	H
11933.500	46.46	-31.48	39.09	38.85	74.00	27.54	V

## Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17561.700	53.40	-25.74	45.95	33.19	68.30	14.90	V
17807.000	52.67	-25.50	46.66	31.51	74.00	21.33	H
16540.800	51.05	-26.96	39.82	38.19	68.30	17.25	V
16573.800	50.83	-26.87	40.65	37.05	68.30	17.47	V
11131.600	47.70	-32.60	38.75	41.56	74.00	26.30	V
11959.400	47.66	-31.48	39.09	40.05	74.00	26.34	H

**802.11ac-HT80**

## Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17509.400	53.16	-26.85	45.25	34.76	68.30	15.14	H
17947.800	53.05	-25.50	46.66	31.89	74.00	20.95	V
16930.800	51.47	-26.32	42.36	35.42	68.30	16.83	V
13660.500	50.85	-29.50	40.43	39.92	68.30	17.45	V
11929.600	48.29	-31.48	39.09	40.68	74.00	25.71	H
10880.200	46.71	-32.33	38.59	40.45	74.00	27.29	V

**802.11ax-HT20**

## Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17589.200	52.62	-25.74	45.95	32.41	68.30	15.68	V
17973.600	52.48	-25.50	46.66	31.32	74.00	21.52	V
16586.500	51.58	-26.87	40.65	37.80	68.30	16.72	H
16640.400	50.97	-26.87	40.65	37.19	68.30	17.33	H
11048.000	47.14	-32.49	38.72	40.90	74.00	26.86	H
11969.800	47.03	-31.48	39.09	39.42	74.00	26.97	V

## Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17698.600	53.63	-25.74	45.95	33.42	68.30	14.67	H
17858.700	52.68	-25.50	46.66	31.52	74.00	21.32	V
16575.000	51.23	-26.87	40.65	37.45	68.30	17.07	V
13554.400	50.70	-29.56	39.99	40.27	68.30	17.60	H
10859.400	46.81	-32.33	38.59	40.55	74.00	27.19	H
11817.500	46.69	-31.85	39.05	39.49	74.00	27.31	H

## Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17806.400	52.55	-25.50	46.66	31.39	74.00	21.45	H
17956.000	52.35	-25.50	46.66	31.19	74.00	21.65	V
13641.200	51.22	-29.50	40.43	40.29	68.30	17.08	V
13559.300	50.96	-29.50	40.43	40.03	68.30	17.34	V
10528.200	47.23	-32.99	38.27	41.94	68.30	21.07	H
11842.800	46.84	-31.85	39.05	39.64	74.00	27.16	V

**802.11ax-HT40**

## Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17943.900	53.32	-25.50	46.66	32.16	74.00	20.68	H
17475.300	52.89	-26.85	45.25	34.49	68.30	15.41	V
16557.900	51.57	-26.87	40.65	37.79	68.30	16.73	V
16577.200	51.14	-26.87	40.65	37.36	68.30	17.16	V
11030.400	46.92	-32.49	38.72	40.68	74.00	27.08	H
11918.100	46.90	-31.48	39.09	39.29	74.00	27.10	H

## Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17963.700	52.47	-25.50	46.66	31.31	74.00	21.53	H
17978.000	52.40	-25.50	46.66	31.24	74.00	21.60	V
16550.200	51.80	-26.87	40.65	38.02	68.30	16.50	V
16936.300	51.21	-26.32	42.36	35.16	68.30	17.09	H
11886.200	47.20	-31.85	39.05	40.00	74.00	26.80	V
11922.000	47.14	-31.48	39.09	39.53	74.00	26.86	V

**802.11ax-HT80**

## Ch155

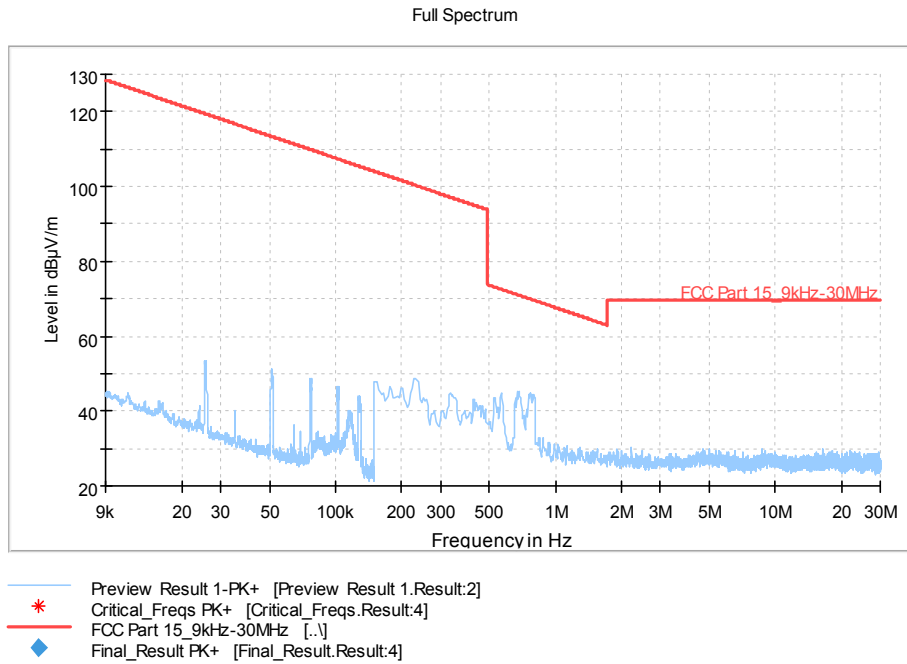
Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17968.100	52.56	-25.50	46.66	31.40	74.00	21.44	V
17870.800	52.31	-25.50	46.66	31.15	74.00	21.69	V
16582.700	51.63	-26.87	40.65	37.85	68.30	16.67	V
16593.700	51.55	-26.87	40.65	37.77	68.30	16.75	V
11934.000	47.88	-31.48	39.09	40.27	74.00	26.12	H
11980.200	47.04	-31.48	39.09	39.43	74.00	26.96	H

Note: the spurious emission above 18G is noise only

**Conclusion: pass**

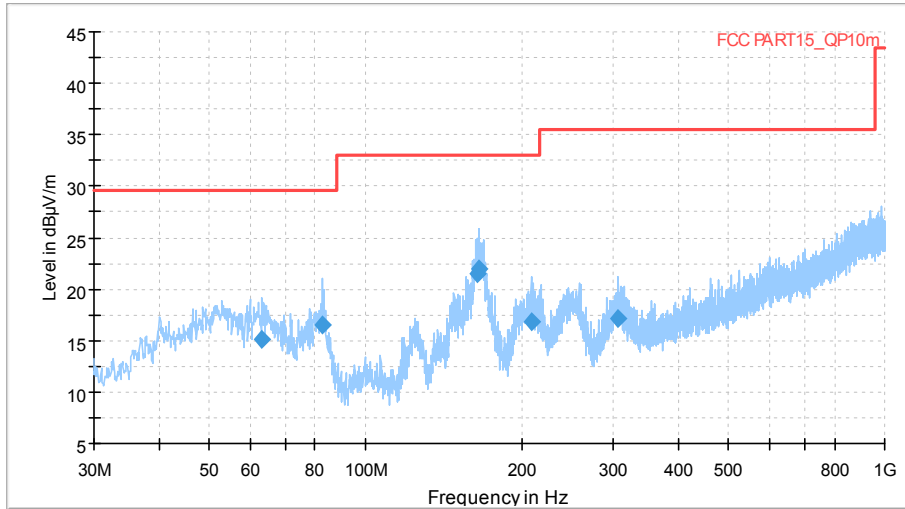
### C.1.2 Radiated Spurious Emission- Below 1GHz

#### WOSRT CASE BELOW 30MHz (Set.1-1, 802.11a CH149,MIMO)



WOSRT CASE for 30MHz-1GHz (Set.1-1, 802.11a CH149,MIMO)

Full Spectrum



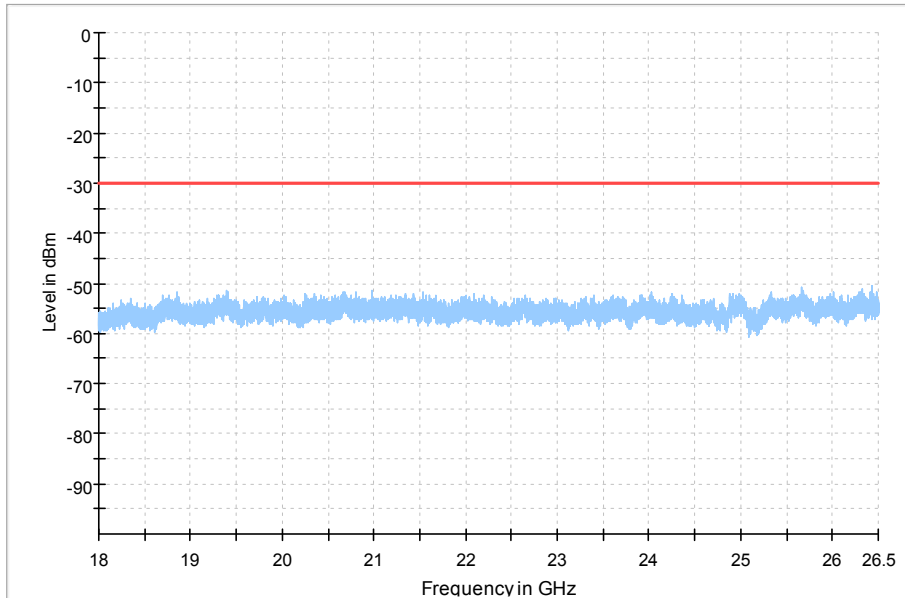
- Preview Result 1-PK+ [Preview\_Result.Result:1]
- \* Critical\_Freqs PK+ [Critical\_Freqs.Result:4]
- FCC PART15\_QP10m [...]
- ◆ Final\_Result QPK [Final\_Result.Result:4]

Final\_Result

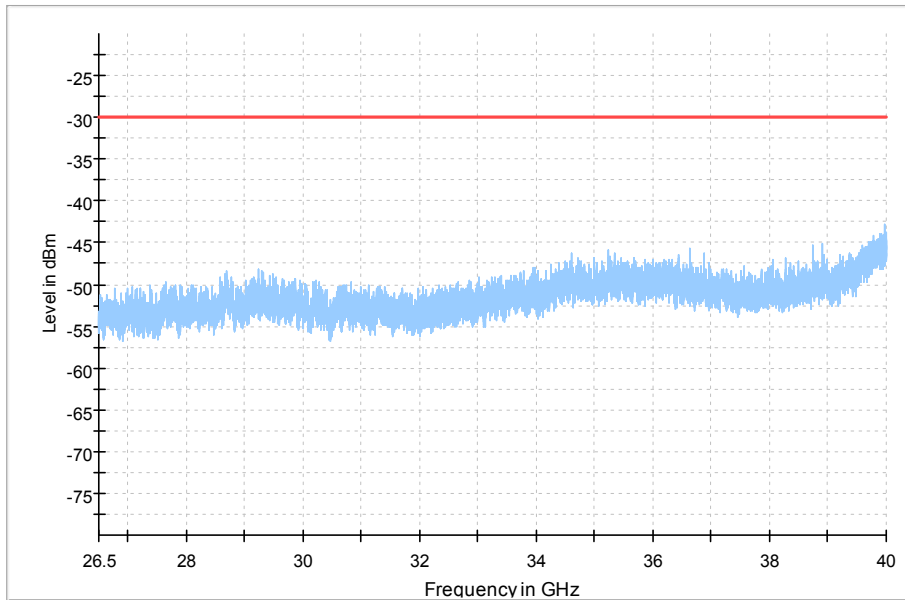
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
63.271000	15.05	29.54	14.49	2000.0	120.000	98.0	V	24.0
82.574000	16.48	29.54	13.06	2000.0	120.000	110.0	V	96.0
163.763000	21.47	33.06	11.59	2000.0	120.000	109.0	V	39.0
165.897000	22.04	33.06	11.02	2000.0	120.000	109.0	V	162.0
208.383000	16.82	33.06	16.24	2000.0	120.000	108.0	V	199.0
307.323000	17.15	35.56	18.41	2000.0	120.000	98.0	V	199.0

### C.1.3 Radiated Spurious Emission-ABOVE 18GHz. WOSRT CASE for ABOVE 18GHz (Set.1-1, 802.11a CH149,MIMO)

Full Spectrum



Full Spectrum



### C.1.4 Band Edges Compliance– Radiated

#### Measurement Result:

EUT set-up No.	Combination of EUT and AE	ANT NO.
Set.1-1	EUT1 + AE1-1+AE2-1	Chain A
		Chain B
		MIMO
Set.1-2	EUT2 + AE1-1+AE2-2/AE2-3	MIMO

For EUT1 with were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this report. For EUT2 were performed separately in MIMO (Chain A+B), and only the worst cases are shown in this report.

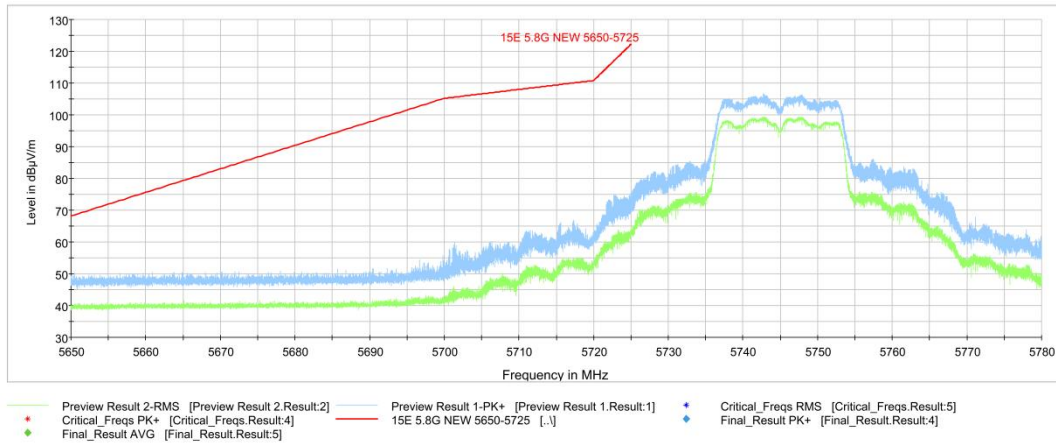
#### Results for Set.1-1, MIMO

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz(CH149)	Fig.1	P
	5825 MHz(CH165)	Fig.2	P
802.11n HT20	5745 MHz(CH149)	Fig.3	P
	5825 MHz(CH165)	Fig.4	P
802.11n HT40	5755 MHz(CH151)	Fig.5	P
	5795 MHz(CH159)	Fig.6	P
802.11ac HT20	5745 MHz(CH149)	Fig.7	P
	5825 MHz(CH165)	Fig.8	P
802.11ac HT40	5755 MHz(CH151)	Fig.9	P
	5795 MHz(CH159)	Fig.10	P
802.11ac HT80	5775 MHz(CH155)	Fig.11 Fig.12	P
	5745 MHz(CH149)	Fig.13	P
802.11ax HT20	5825 MHz(CH165)	Fig.14	P
	5755 MHz(CH151)	Fig.15	P
802.11ax HT40	5795 MHz(CH159)	Fig.16	P
	5775 MHz(CH155)	Fig.17 Fig.18	P

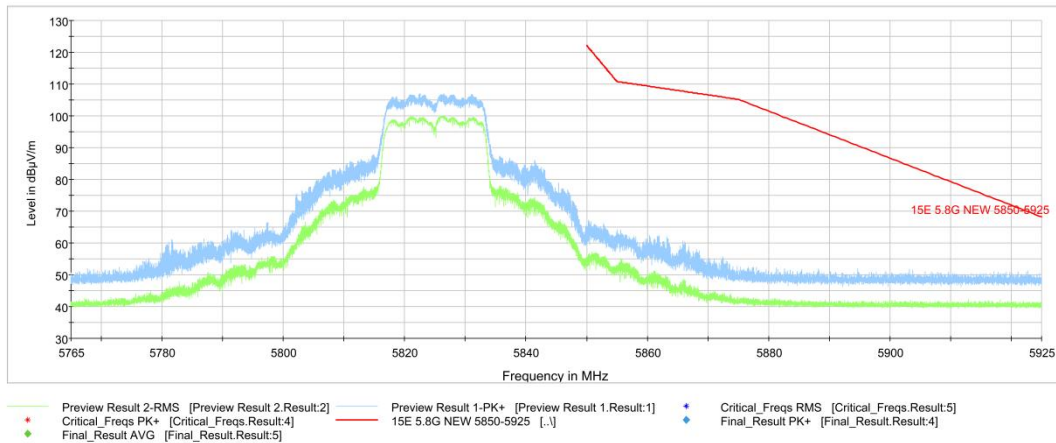
**Conclusion: PASS**



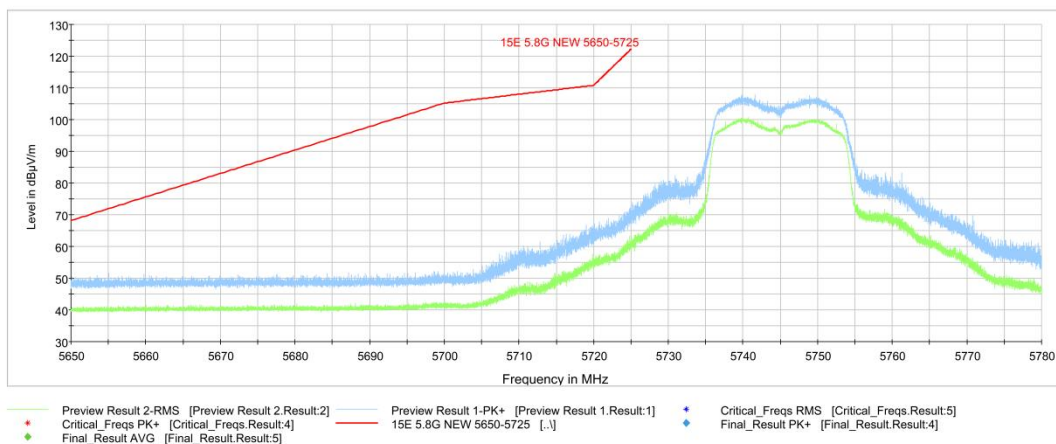
Test graphs as below:



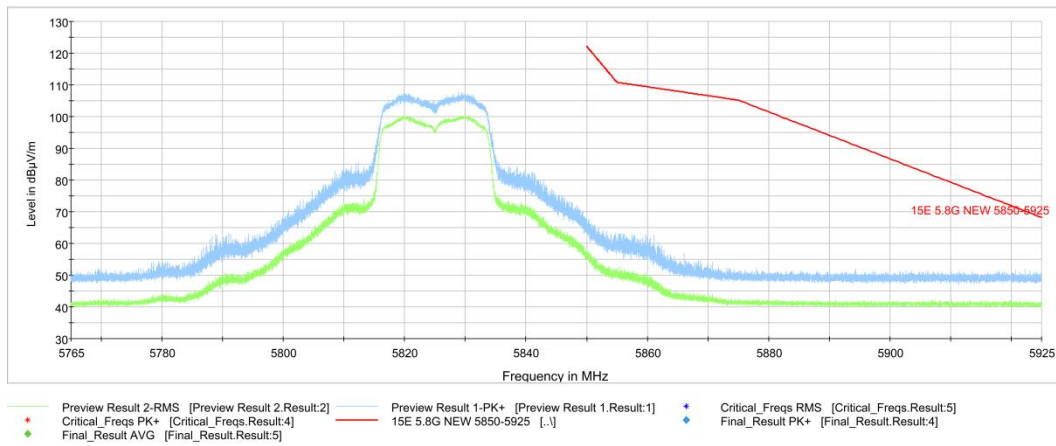
**Fig. 1 Band Edges (802.11a, CH149, 5745MHz)**



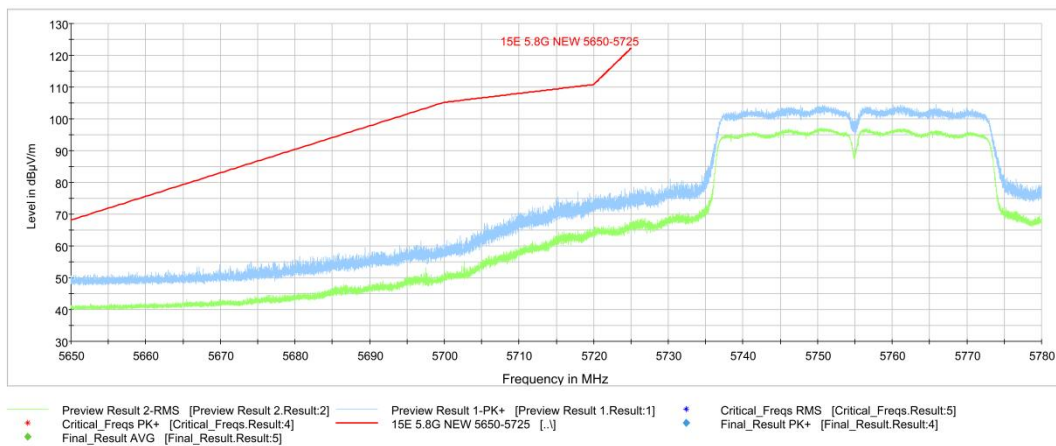
**Fig. 2 Band Edges (802.11a, CH165, 5825MHz)**



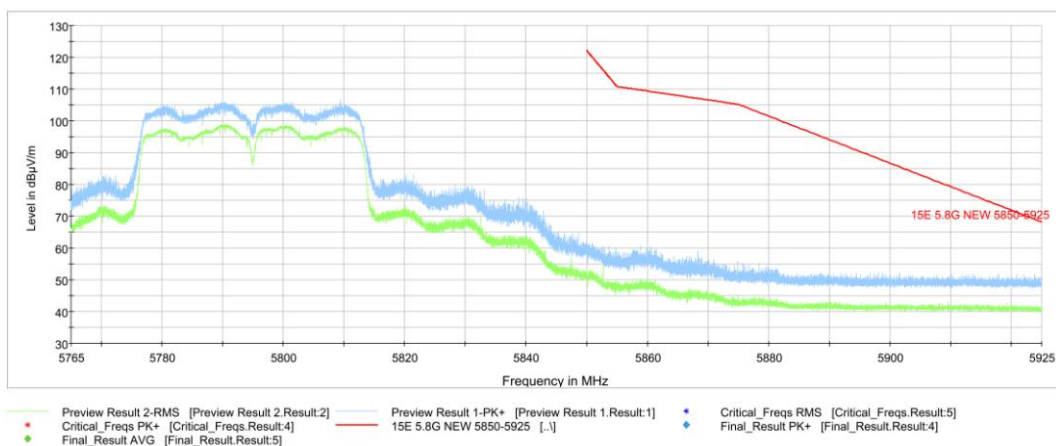
**Fig. 3 Band Edges (802.11n-HT20, CH149, 5745MHz)**



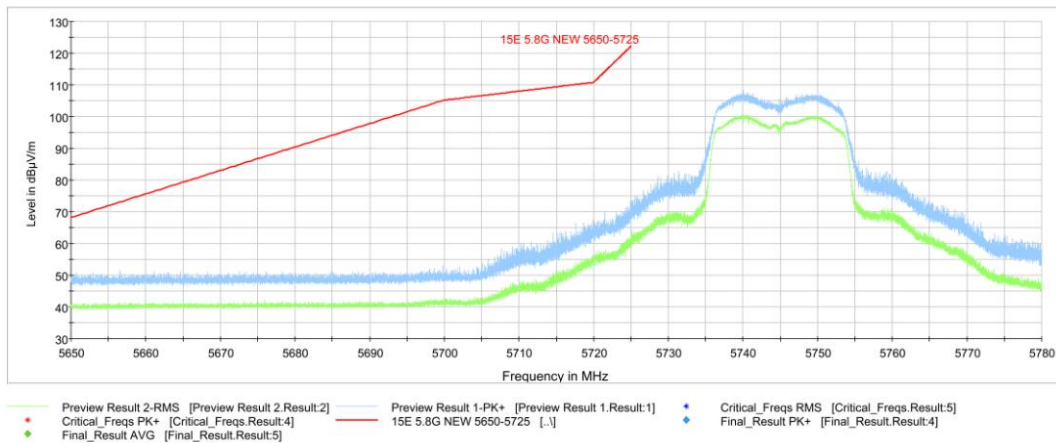
**Fig. 4 Band Edges (802.11n-HT20, CH165, 5825MHz)**



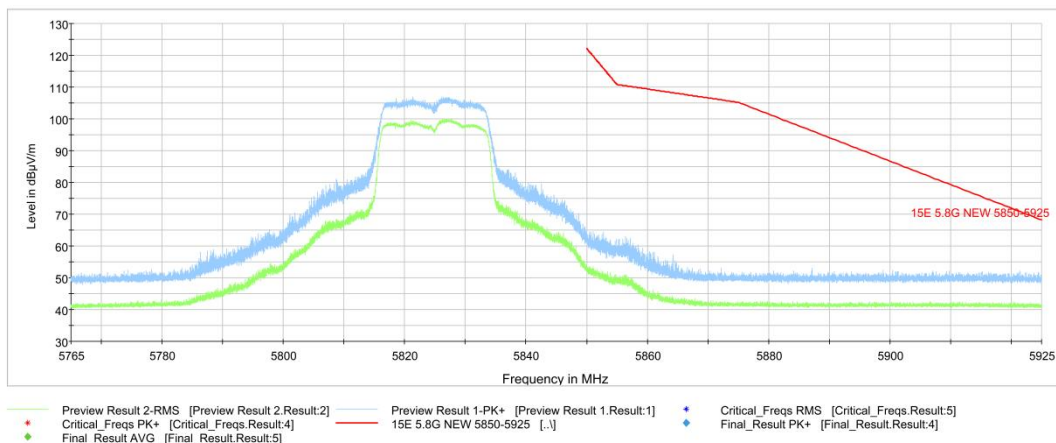
**Fig. 5 Band Edges (802.11n-HT40, CH151, 5755MHz)**



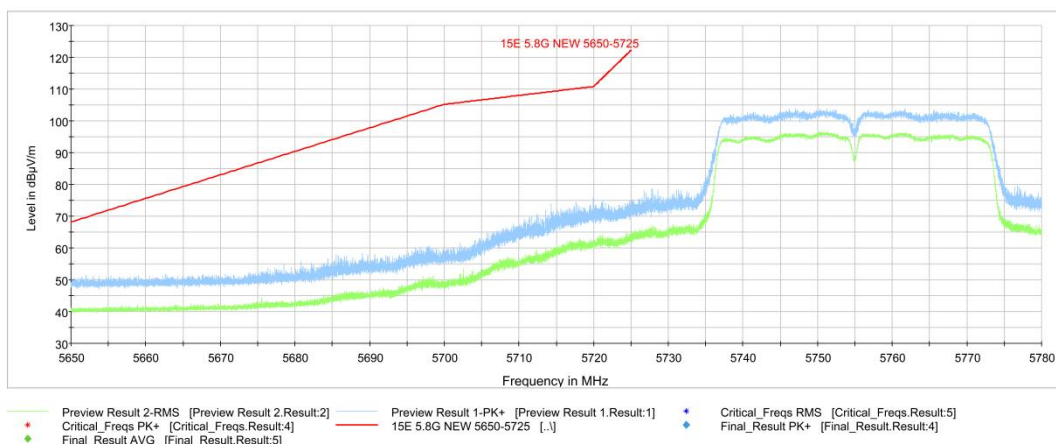
**Fig. 6 Band Edges (802.11n-HT40, CH159, 5795MHz)**



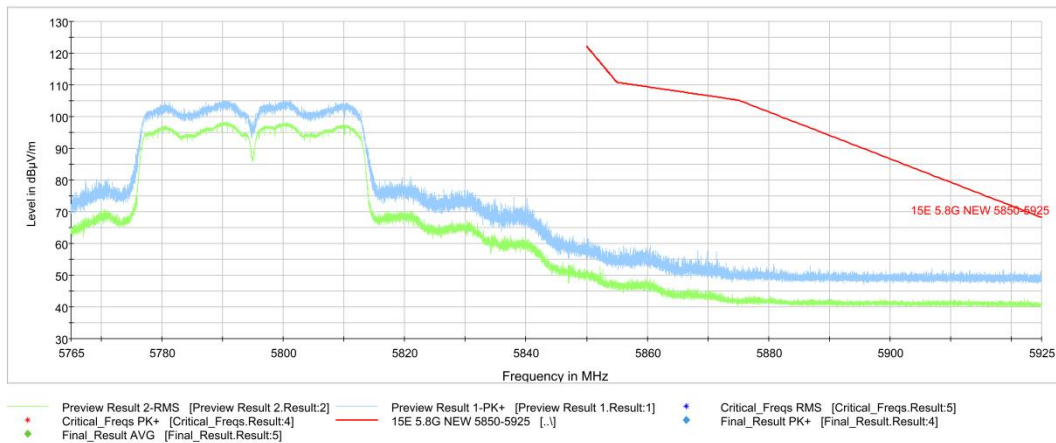
**Fig. 7 Band Edges (802.11ac-HT20, CH149, 5745MHz)**



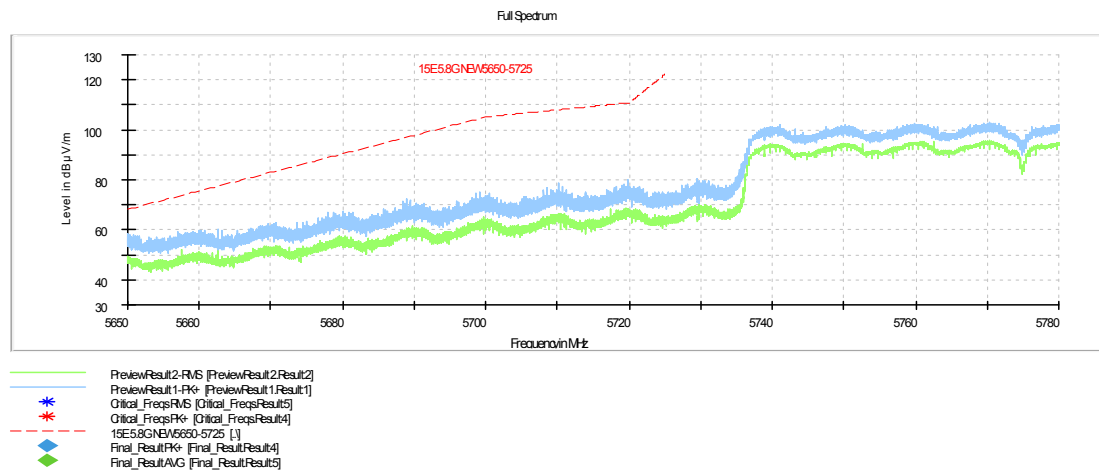
**Fig. 8 Band Edges (802.11ac-HT20, CH165, 5825MHz)**



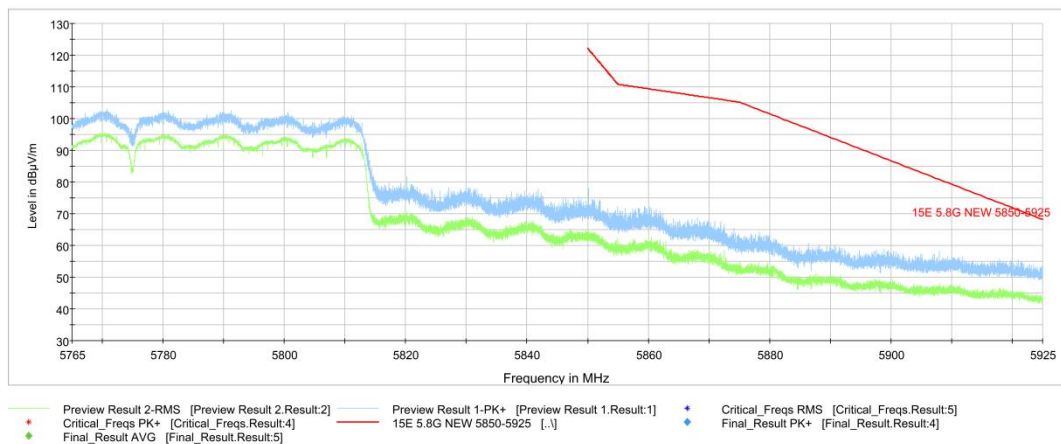
**Fig. 9 Band Edges (802.11ac-HT40, CH151, 5755MHz)**



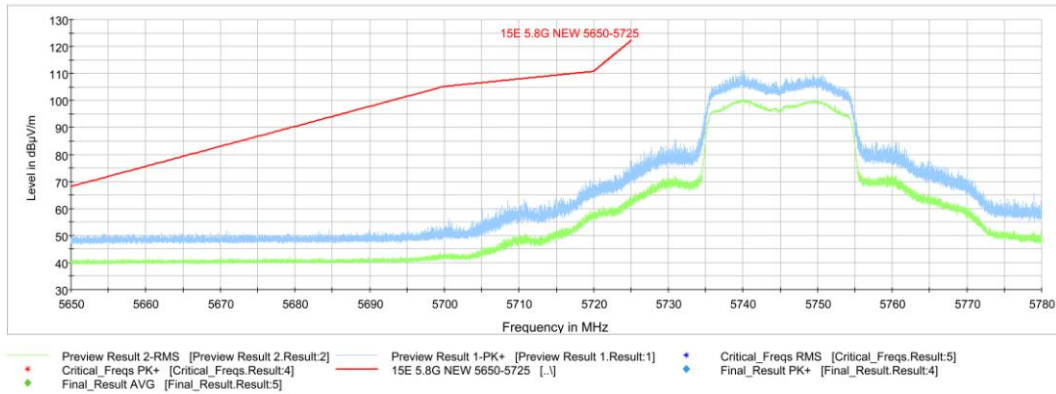
**Fig. 10 Band Edges (802.11ac-HT40,CH159, 5795MHz)**



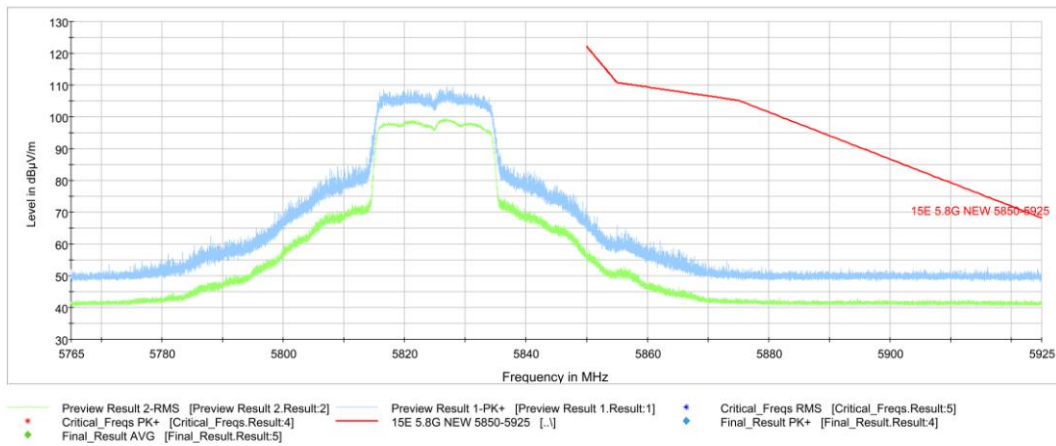
**Fig. 11 Band Edges (802.11ac-HT80, CH155, 5775MHz)**



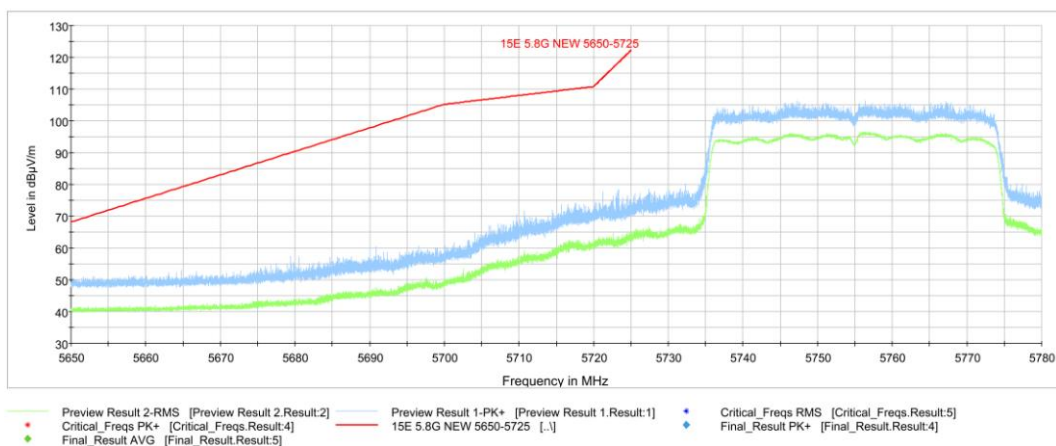
**Fig. 12 Band Edges (802.11ac-HT80, CH155, 5775MHz)**



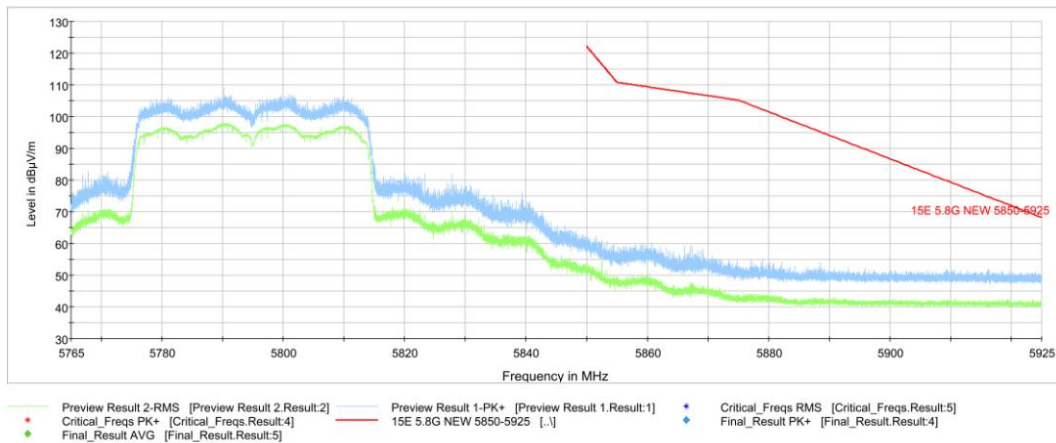
**Fig. 13 Band Edges (802.11ax-HT20, CH149, 5745MHz)**



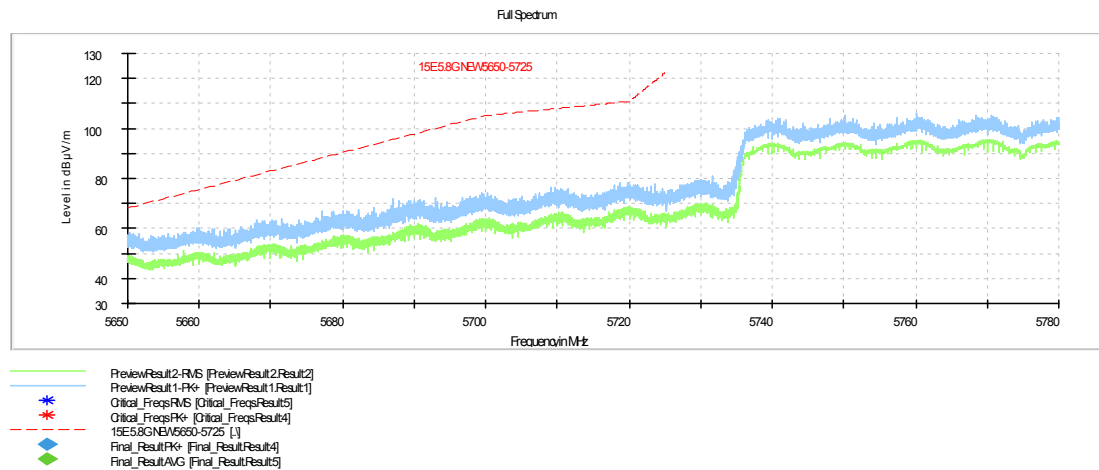
**Fig. 14 Band Edges (802.11ax-HT20, CH165, 5825MHz)**



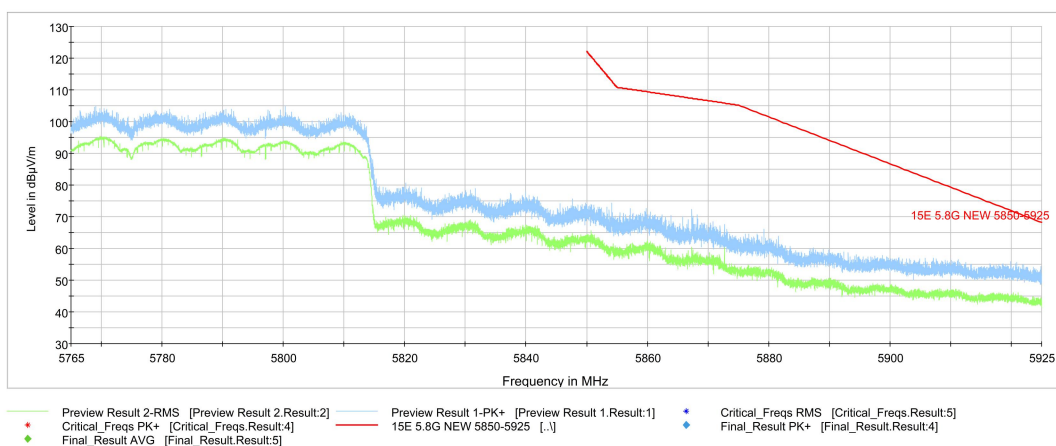
**Fig. 15 Band Edges (802.11ax-HT40, CH151, 5755MHz)**



**Fig. 16 Band Edges (802.11ax-HT40,CH159, 5795MHz)**



**Fig. 17 Band Edges (802.11ax-HT80, CH155, 5775MHz)**



**Fig. 18 Band Edges (802.11ax-HT80, CH155, 5775MHz)**

## C.2. AC Power-line Conducted Emission

### Reference

FCC 47 CFR Part 15, Clause 15.407 Clause 15.207

### Method of Measurement:

See Clause 6.2 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

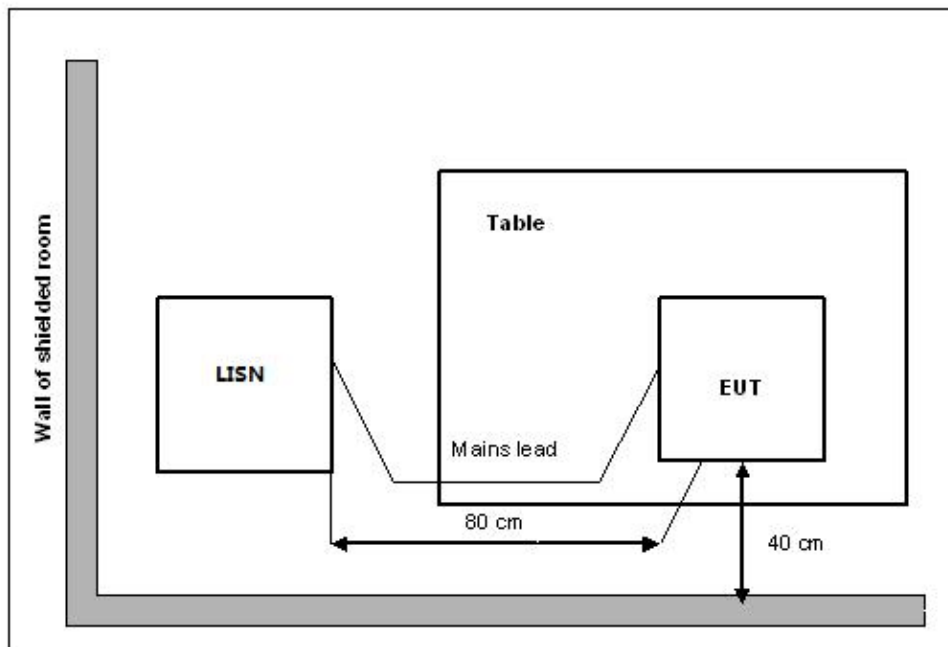
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth	Sweep Time(s)
0.15-30	9kHz	1

### Test Condition:

Voltage (V)	Frequency (Hz)
120	60

### Measurement Setup



### EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state.

The EUT is powered by an AC/travel adapter.

**Measurement Result and limit:**

EUT set-up No.	Combination of EUT and AE	ANT NO.
Set.1-1	EUT1 + AE1-1+AE2-1	MIMO
Set.1-2	EUT2 + AE1-1+AE2-2/AE2-3	MIMO

For EUT1 and EUT2 with were performed separately in MIMO and only the worst cases are shown in this report.

**Set.1-1, Set.1-2**

**802.11a/802.11n-HT20/802.11n-HT40/802.11ac-HT20 mode/802.11ac-HT40/802.11ac-HT80/**

**802.11ax-HT20 mode/802.11ax-HT40/802.11ax-HT80:**

**WLAN (Quasi-peak Limit)**

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.C.2.1	Fig.C.2.2	<b>P</b>
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**WLAN (Average Limit)**

Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.C.2.1	Fig.C.2.2	<b>P</b>
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Note: all modes have been tested and the worst results shown here.

**Conclusion: Pass**

**Test graphs as below:**



Set.1-2, 802.11a, MIMO

Traffic:

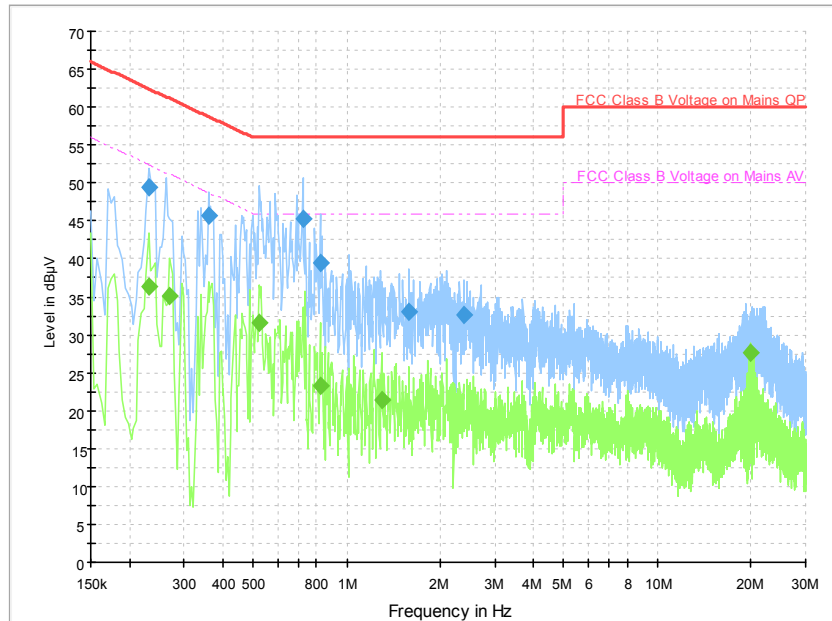


Fig.C.2.1 AC Power line Conducted Emission-802.11a

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

### Final Result 1

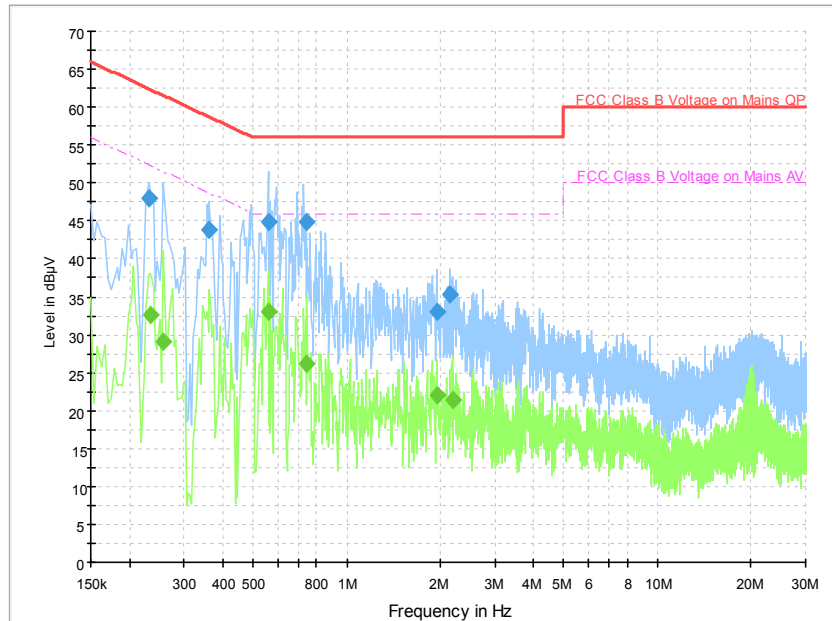
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.230000	49.5	5000.0	9.000	On	N	19.8	12.9
0.358000	45.6	5000.0	9.000	On	N	19.9	13.1
0.722000	45.2	5000.0	9.000	On	N	19.8	10.8
0.822000	39.4	5000.0	9.000	On	N	19.8	16.6
1.582000	33.0	5000.0	9.000	On	L1	19.5	23.0
2.382000	32.7	5000.0	9.000	On	N	19.8	23.3

### Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.230000	36.3	5000.0	9.000	On	N	19.8	16.1
0.270000	35.0	5000.0	9.000	On	L1	20.0	16.1
0.522000	31.6	5000.0	9.000	On	N	20.0	14.4
0.822000	23.2	5000.0	9.000	On	N	19.8	22.8
1.294000	21.5	5000.0	9.000	On	L1	19.5	24.5
20.034000	27.6	5000.0	9.000	On	N	19.9	22.4

Set.1-2, 802.11a, MIMO

Idle:



**Fig.C.2.2 AC Power line Conducted Emission-Idle**

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.230000	47.9	5000.0	9.000	On	N	19.8	14.5
0.362000	43.8	5000.0	9.000	On	N	19.9	14.9
0.558000	44.8	5000.0	9.000	On	N	19.9	11.2
0.738000	44.8	5000.0	9.000	On	N	19.8	11.2
1.946000	33.0	5000.0	9.000	On	L1	19.4	23.0
2.150000	35.4	5000.0	9.000	On	N	19.7	20.6

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.234000	32.7	5000.0	9.000	On	N	19.8	19.6
0.258000	29.1	5000.0	9.000	On	L1	20.0	22.4
0.558000	33.0	5000.0	9.000	On	L1	19.9	13.0
0.746000	26.1	5000.0	9.000	On	L1	19.7	19.9
1.946000	22.1	5000.0	9.000	On	L1	19.4	23.9
2.186000	21.4	5000.0	9.000	On	N	19.7	24.6

\*\*\* END OF REPORT BODY \*\*\*