



FCC PART 15C TEST REPORT

No.I23Z60697-IOT05

for

Client Name:LG Electronics USA,Inc.

Product Name : 10A30Q

Model Name: 10A30Q

With

FCC ID: BEJTB-10A30Q

Hardware Version: Rev 1.0

Software Version: 10A30Q10y

Issued Date: 2023-06-26

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

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1. TEST LATORATORY

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

Conducted testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

Radiated testing Location: 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: 2023-04-20

Testing End Date: 2023-06-26

1.5. Signature



Xie Xiuzhen
(Prepared this test report)



Zheng Wei
(Reviewed this test report)



Pang Shuai
(Approved this test report)

2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: LG Electronics USA, Inc.
Address: 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey
07632, United States
City: Englewood Cliffs
Postal Code: /
Country: United States
Telephone: /
Fax: /

2.2. Manufacturer Information

Company Name: LG Electronics Inc.
Address: 222, LG-ro, Jinwi-myeon Pyeongtaek-Si, Gyeonggi-Do, 17709
Republic of KOREA
City: Pyeongtaek-Si
Postal Code: /
Country: KOREA
Telephone: 82-10-9973-2929
Fax: /

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY

EQUIPMENT(AE)

3.1. About EUT

Description	10A30Q
Model name	10A30Q
FCC ID	BEJTB-10A30Q
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Voltage	3.85V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
UT13a	304WIKN000085	Rev 1.0	10A30Q10y
UT32a	304WIBF000093	Rev 1.0	10A30Q10y

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

UT32a is used for Conduction test, UT13a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Model	Manufacture
AE1	Battery	BL-M22	Shenzhen BYD Lithium Battery Company Limited
AE2	Charger	MCS-H06WA	Dongguan Aohai Technology Co., Ltd.
AE3	USB Cable	HX-WT-41	HUIZHOU WASHIN ELECTRONICS CO.,LTD

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

3.4. General Description

Equipment Under Test (EUT) is a model of 10A30Q with integrated antenna. It consists of normal options: Battery and Charger.

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

Samples undergoing test were selected by the Client.

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.

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 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2021
ANSI C63.10		2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.407 (a)	/	P
Peak Power Spectral Density	15.407 (a)	/	P
Occupied 6dB Bandwidth	15.407 (e)	/	P
Band Edges Compliance - Conducted& Radiated	15.407 (b)	/	P
Transmitter Spurious Emission - Conducted	15.407	/	P
Transmitter Spurious Emission - Radiated	15.407, 15.205, 15.209	/	P
AC Powerline Conducted Emission	15.107, 15.207	/	P

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

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases requested by the client/manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

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

Temperature	26°C
Voltage	3.85V
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2024-06-05
2	LISN	ENV216	101200	Rohde & Schwarz	1 year	2023-06-29
3	Test Receiver	ESCI	100344	Rohde & Schwarz	1 year	2024-02-21
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103144	R&S	1 year	2023-10-25
2	EMI Antenna	VULB 9163	01223	SCHWARZBECK	1 year	2023-07-25
3	EMI Antenna	3115	00167250	ETS-Lindgren	1 year	2023-06-20
4	EMI Antenna	3116	2661	ETS-Lindgren	1 year	2024-01-30

※Note: The EMI Antenna with series number of 00167250 did not exceed the CAL.DUE.DATE when used.

8. Measurement Uncertainty

8.1. Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2. Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3. Occupied 6dB Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4. Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5. Spurious Emissions

Conducted (k=1.96)

Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 2GHz	1.22
2GHz ≤ f ≤ 3.6GHz	1.22
3.6GHz ≤ f ≤ 8GHz	1.22
8GHz ≤ f ≤ 12.75GHz	1.51
12.75GHz ≤ f ≤ 26GHz	1.51
26GHz ≤ f ≤ 40GHz	1.59

Radiated (k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
30MHz ≤ f ≤ 1GHz	5.15
1GHz ≤ f ≤ 18GHz	5.54
18GHz ≤ f ≤ 40GHz	5.26

8.6. AC Power-line Conducted Emission

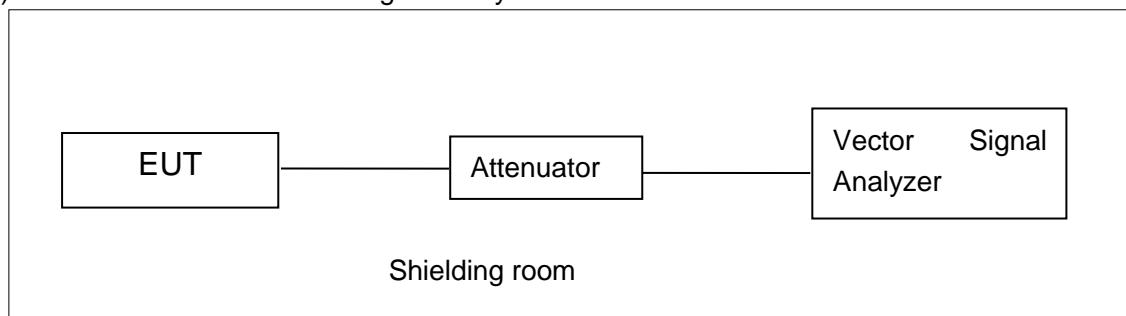
Measurement Uncertainty: 3.08dB, k=2

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. Conducted Measurements

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode.
- 3). Set the EUT to the required channel.
- 4). Set the spectrum analyzer to start measurement.
- 5). Record the values. Vector Signal Analyzer

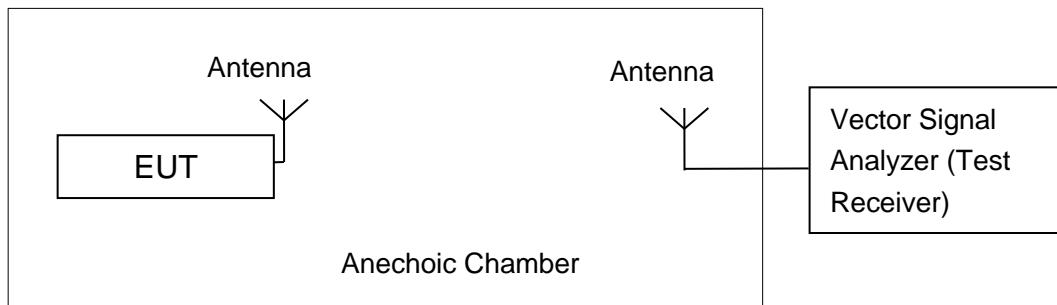


A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to ANSI C63.10.

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.

A.2. Maximum Peak Output Power

Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.407(a)	< 30

A.2.1 Antenna Gain

Antenna gain is -1.73dBi and the value is supplied by the applicant or manufacturer.

A.2.2. Maximum Average Output Power-Conducted

Measurement Results:

802.11a mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11a	6	16.23	16.53	17.48
	9	/	/	/
	12	/	/	/
	18	/	/	/
	24	/	/	/
	36	/	/	/
	48	/	/	/
	54	/	/	/

The data rate 6Mbps is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11n (20MHz)	MCS0	16.33	16.09	15.81
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/
	MCS6	/	/	/
	MCS7	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-HT20 mode

Mode	Data Rate (Index)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11ac (20MHz)	MCS0	16.33	16.08	15.85
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/
	MCS6	/	/	/
	MCS7	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11n (40MHz)	MCS0	15.81	15.67
	MCS1	/	/
	MCS2	/	/
	MCS3	/	/
	MCS4	/	/
	MCS5	/	/
	MCS6	/	/
	MCS7	/	/
	MCS8	/	/
	MCS9	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ac (40MHz)	MCS0	15.84	15.73
	MCS1	/	/
	MCS2	/	/
	MCS3	/	/
	MCS4	/	/

	MCS5	/	/
	MCS6	/	/
	MCS7	/	/
	MCS8	/	/
	MCS9	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-HT80 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5775MHz (Ch155)	
802.11ac (80MHz)	MCS0	14.94	
	MCS1	/	
	MCS2	/	
	MCS3	/	
	MCS4	/	
	MCS5	/	
	MCS6	/	
	MCS7	/	
	MCS8	/	
	MCS9	/	

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

Duty Cycle

Mode	802.11a	802.11n20	802.11n40	802.11ac20	802.11ac40	802.11ac80
Duty Cycle	98%	98%	98%	98%	98%	98%

Conclusion: PASS

A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407(a)	< 30 dBm/500 kHz

The measurement is made according to ANSI C63.10 and KDB789033 D02

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Results:

Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
802.11a	149	2.78	P
	157	2.51	P
	165	2.21	P
802.11n HT20	149	2.79	P
	157	2.53	P
	165	2.16	P
802.11ac HT40	151	-1.00	P
	159	-0.98	P
802.11ac HT80	155	-5.23	P

Conclusion: PASS

A.4. Occupied 6dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.407 (e)	≥ 500

The measurement is made according to KDB789033 D02 .

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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Measurement Result:

Mode	Channel	Occupied 6dB Bandwidth (MHz)		conclusion
802.11a	149	Fig.1	17.60	P
	157	Fig.2	17.52	P
	165	Fig.3	17.60	P
802.11n HT20	149	Fig.4	17.70	P
	157	Fig.5	17.74	P
	165	Fig.6	17.64	P
802.11ac HT40	151	Fig.7	35.20	P
	159	Fig.8	35.20	P
802.11ac HT80	155	Fig.9	76.24	P

Conclusion: PASS

Test graphs as below:

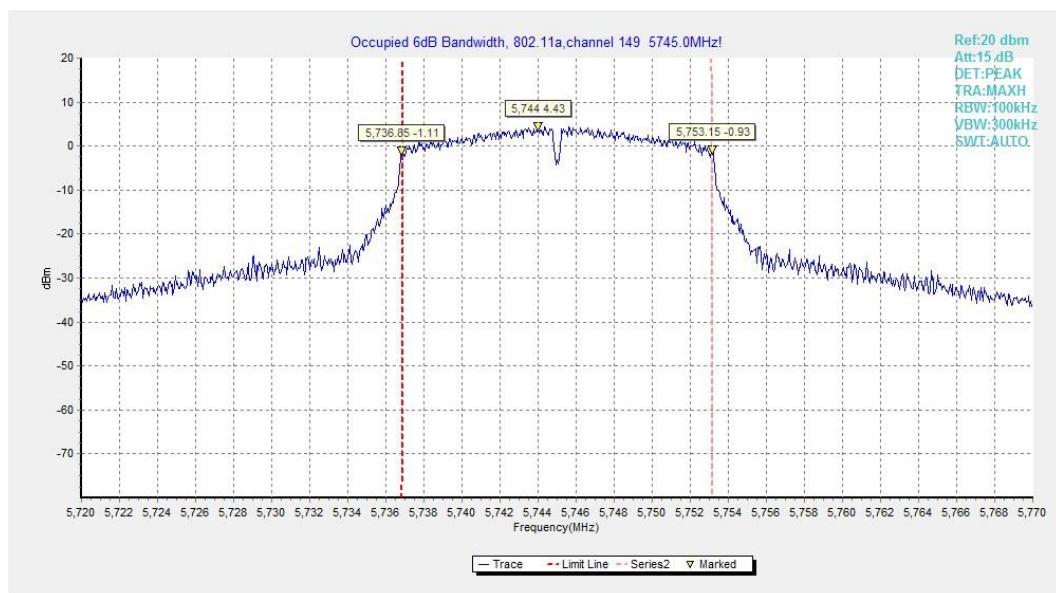


Fig. 1 Occupied 6dB Bandwidth (802.11a, Ch 149)

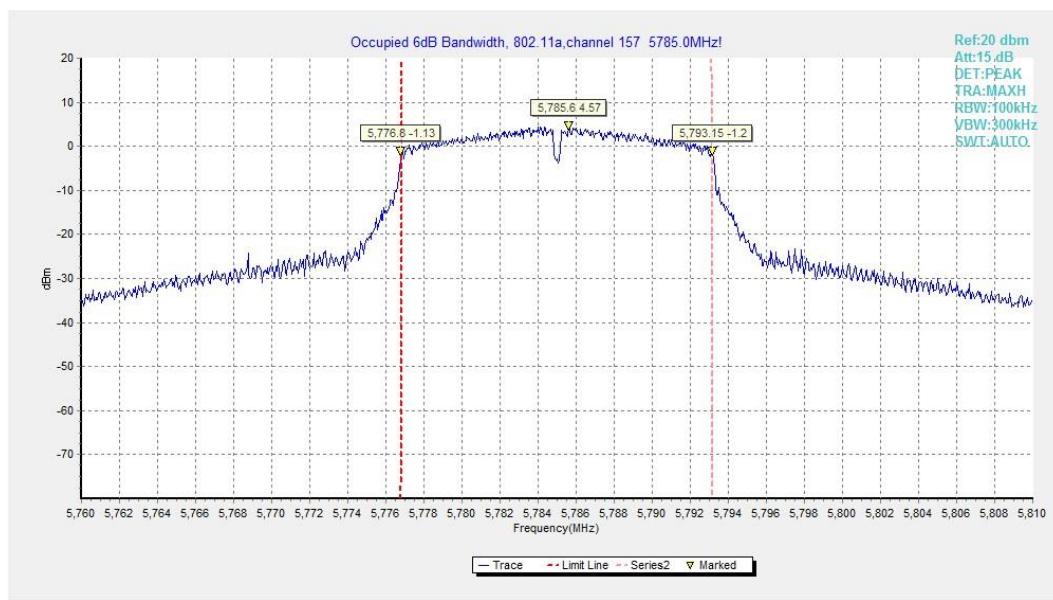


Fig. 2 Occupied 6dB Bandwidth (802.11a, Ch 157)

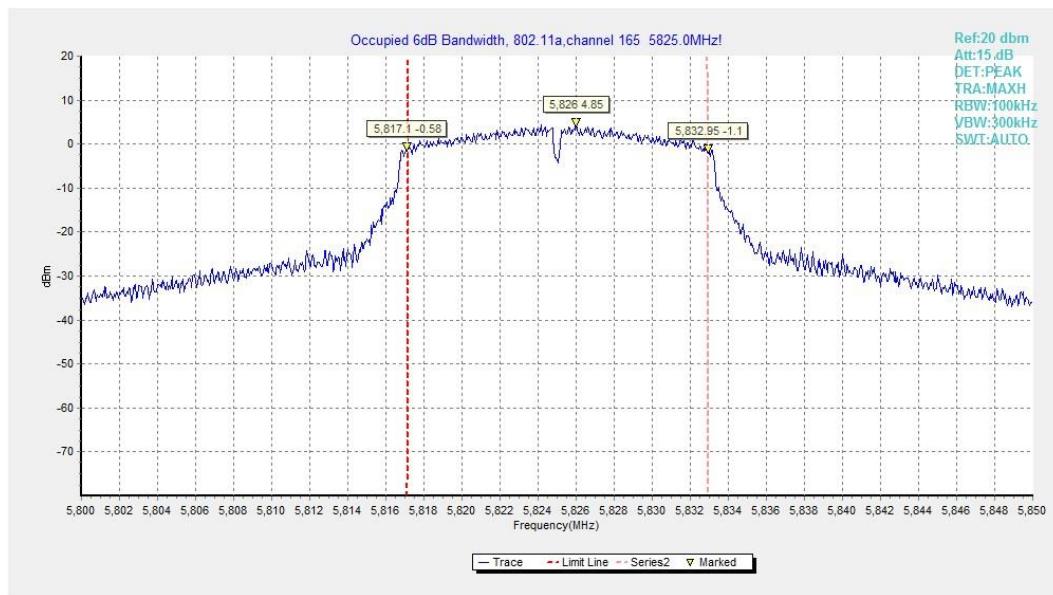


Fig. 3 Occupied 6dB Bandwidth (802.11a, Ch 165)



Fig. 4 Occupied 6dB Bandwidth (802.11n-HT20, Ch 149)

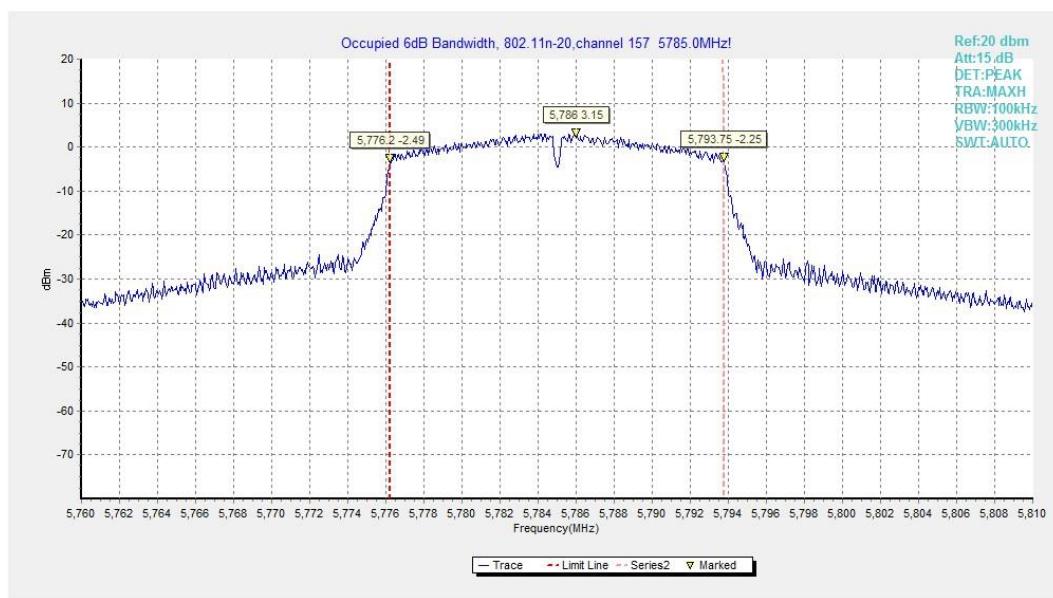


Fig. 5 Occupied 6dB Bandwidth (802.11n-HT20, Ch 157)

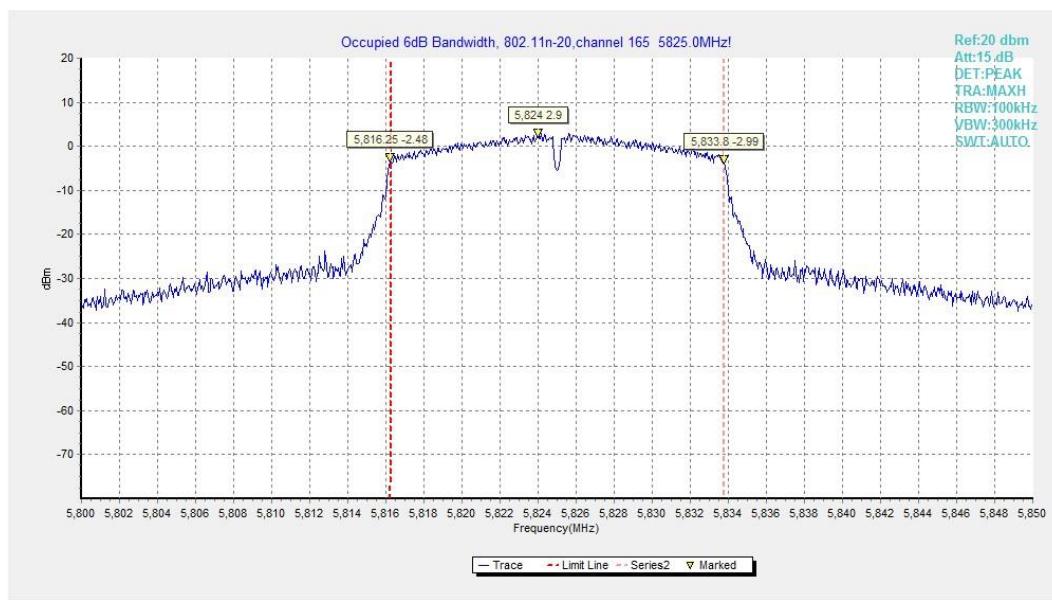


Fig. 6 Occupied 6dB Bandwidth (802.11n-HT20, Ch 165)

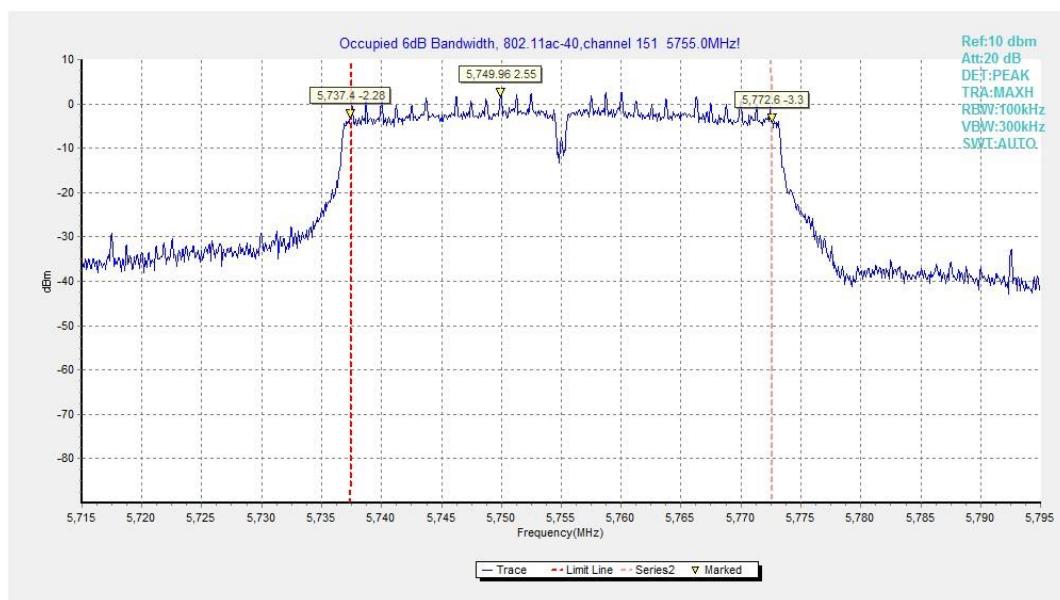


Fig. 7 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 151)

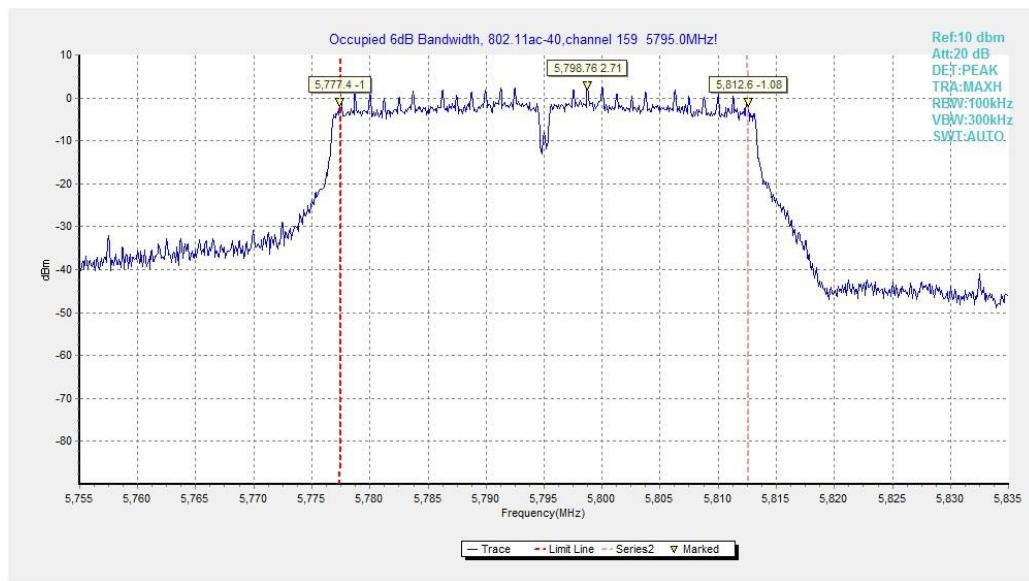


Fig. 8 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 159)

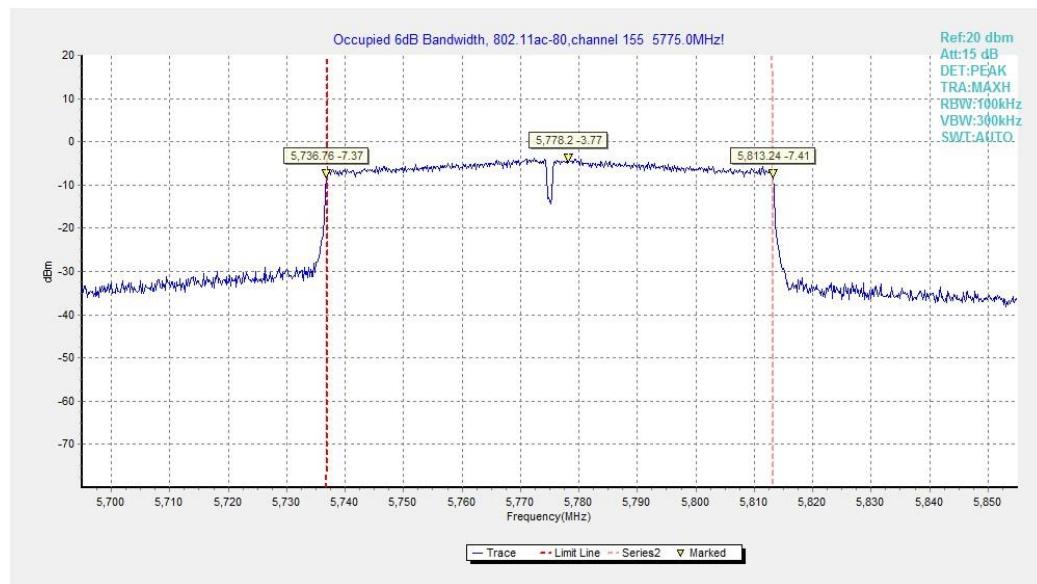


Fig. 9 Occupied 6dB Bandwidth (802.11ac-HT80, Ch 155)

A.5. Transmitter Spurious Emission

A.5.1 Transmitter Spurious Emission – Radiated

Measurement Limit:

Standard	Limit (dBm/MHz)	
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.	

The measurement is made according to KDB 789033

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	149	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	157	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	165	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	149	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	157	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	165	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	151	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	159	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT20)	149	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	157	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	165	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT40)	151	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P
	159	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT80)	155	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P

		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz~ 40 GHz	---	P

Conclusion: PASS**Note:**

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

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

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)
17920.433	40.81	-29.59	45.95	24.45	54.00	13.19	H
17978.000	40.69	-29.59	45.95	24.33	54.00	13.31	H
12332.067	37.73	-32.39	38.95	31.17	54.00	16.27	H
12331.700	37.27	-32.39	38.95	30.71	54.00	16.73	V
8456.400	34.37	-34.69	37.40	31.66	54.00	19.63	V
8491.600	34.23	-34.28	37.30	31.21	54.00	19.77	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)
17941.333	40.70	-29.59	45.95	24.34	54.00	13.30	H
17942.800	40.47	-29.59	45.95	24.11	54.00	13.53	V
12195.300	37.12	-32.12	38.90	30.34	54.00	16.88	V
11988.867	36.97	-32.66	39.00	30.63	54.00	17.03	V
8493.067	34.00	-34.28	37.30	30.98	54.00	20.00	V
8467.400	33.83	-34.28	37.30	30.81	54.00	20.17	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)
17979.833	40.57	-29.59	45.95	24.21	54.00	13.43	H
17938.033	40.45	-29.59	45.95	24.09	54.00	13.55	V
12332.800	37.48	-32.39	38.95	30.92	54.00	16.52	H
12333.167	37.22	-32.39	38.95	30.66	54.00	16.78	H
8449.433	34.12	-34.69	37.40	31.41	54.00	19.88	H
8357.767	34.11	-34.93	37.20	31.84	54.00	19.89	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)
17949.767	41.15	-29.59	45.95	24.79	54.00	12.85	V
17975.067	41.11	-29.59	45.95	24.75	54.00	12.89	H
12332.433	37.46	-32.39	38.95	30.90	54.00	16.54	V
12330.233	37.40	-32.39	38.95	30.84	54.00	16.60	H
8336.500	33.95	-34.93	37.20	31.68	54.00	20.05	V
8277.833	33.92	-34.84	37.10	31.65	54.00	20.08	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)
17947.933	40.74	-29.59	45.95	24.38	54.00	13.26	V
17979.100	40.73	-29.59	45.95	24.37	54.00	13.27	V
12291.733	37.10	-32.12	39.00	30.22	54.00	16.90	V
12333.167	36.98	-32.39	38.95	30.42	54.00	17.02	H
8211.833	34.23	-34.94	36.90	32.27	54.00	19.77	V
8101.833	33.77	-35.06	36.90	31.93	54.00	20.23	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)
17872.400	40.70	-29.59	45.95	24.34	54.00	13.30	H
17978.367	40.40	-29.59	45.95	24.04	54.00	13.60	V
12330.967	37.54	-32.39	38.95	30.98	54.00	16.46	V
12263.500	37.27	-32.37	38.95	30.69	54.00	16.73	V
8494.900	33.94	-34.28	37.30	30.92	54.00	20.06	V
8329.900	33.57	-34.93	37.20	31.30	54.00	20.43	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)
17955.633	40.76	-29.59	45.95	24.40	54.00	13.24	V
17979.100	40.67	-29.59	45.95	24.31	54.00	13.33	V
12015.633	36.91	-32.66	39.00	30.57	54.00	17.09	H
12331.700	36.82	-32.39	38.95	30.26	54.00	17.18	H
8489.033	33.66	-34.28	37.30	30.64	54.00	20.34	H
8350.067	33.65	-34.93	37.20	31.38	54.00	20.35	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)
17969.200	40.98	-29.59	45.95	24.62	54.00	13.02	V
17972.867	40.93	-29.59	45.95	24.57	54.00	13.07	H
12332.067	37.15	-32.39	38.95	30.59	54.00	16.85	H
12331.333	37.00	-32.39	38.95	30.44	54.00	17.00	H
8495.633	33.85	-34.28	37.30	30.83	54.00	20.15	V
8499.667	33.59	-34.28	37.30	30.57	54.00	20.41	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)
17978.367	40.76	-29.59	45.95	24.40	54.00	13.24	V
17973.600	40.71	-29.59	45.95	24.35	54.00	13.29	V
12330.967	37.04	-32.39	38.95	30.48	54.00	16.96	V
12329.500	37.02	-32.39	38.95	30.46	54.00	16.98	V
8479.867	34.78	-34.28	37.30	31.76	54.00	19.22	H
8336.867	34.17	-34.93	37.20	31.90	54.00	19.83	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)
17976.533	40.55	-29.59	45.95	24.19	54.00	13.45	V
17936.200	40.53	-29.59	45.95	24.17	54.00	13.47	V
12326.567	36.95	-32.12	39.00	30.07	54.00	17.05	H
12310.800	36.82	-32.12	39.00	29.94	54.00	17.18	V
8489.033	33.79	-34.28	37.30	30.77	54.00	20.21	H
8221.733	33.77	-34.48	37.00	31.25	54.00	20.23	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)
17911.267	40.47	-29.59	45.95	24.11	54.00	13.53	V
17956.367	40.41	-29.59	45.95	24.05	54.00	13.59	V
12331.700	38.28	-32.39	38.95	31.72	54.00	15.72	H
12310.433	37.49	-32.12	39.00	30.61	54.00	16.51	V
8333.567	34.01	-34.93	37.20	31.74	54.00	19.99	V
8496.000	33.69	-34.28	37.30	30.67	54.00	20.31	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)
17951.233	40.67	-29.59	45.95	24.31	54.00	13.33	V
17977.633	40.57	-29.59	45.95	24.21	54.00	13.43	V
12330.967	37.14	-32.39	38.95	30.58	54.00	16.86	V
12266.067	37.02	-32.37	38.95	30.44	54.00	16.98	V
8495.633	33.98	-34.28	37.30	30.96	54.00	20.02	V
8485.000	33.57	-34.28	37.30	30.55	54.00	20.43	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)
17938.767	40.61	-29.59	45.95	24.25	54.00	13.39	H
17936.200	40.41	-29.59	45.95	24.05	54.00	13.59	V
12264.600	37.22	-32.37	38.95	30.64	54.00	16.78	H
12195.300	37.11	-32.12	38.90	30.33	54.00	16.89	H
9495.533	34.11	-34.40	37.70	30.81	54.00	19.89	H
8497.100	34.07	-34.28	37.30	31.05	54.00	19.93	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)
17973.600	40.87	-29.59	45.95	24.51	54.00	13.13	V
17929.600	40.60	-29.59	45.95	24.24	54.00	13.40	V
12332.800	37.65	-32.39	38.95	31.09	54.00	16.35	V
12264.600	37.17	-32.37	38.95	30.59	54.00	16.83	V
8326.233	34.00	-34.93	37.20	31.73	54.00	20.00	V
8489.033	33.97	-34.28	37.30	30.95	54.00	20.03	H

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)
16881.300	49.70	-29.28	40.30	38.68	68.20	18.50	V
17938.767	49.62	-29.59	45.95	33.26	74.00	24.38	V
12292.833	46.15	-32.12	39.00	39.27	74.00	27.85	H
12260.567	45.76	-32.37	38.95	39.18	74.00	28.24	V
10256.733	43.56	-33.82	38.00	39.38	68.20	24.64	H
8471.067	43.53	-34.28	37.30	40.51	74.00	30.47	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)
17935.833	49.42	-29.59	45.95	33.06	74.00	24.58	H
17935.100	49.09	-29.59	45.95	32.73	74.00	24.91	V
12324.733	45.70	-32.12	39.00	38.82	74.00	28.30	V
12330.600	45.43	-32.39	38.95	38.87	74.00	28.57	H
10058.000	43.97	-33.75	38.05	39.67	68.20	24.23	V
10240.967	43.35	-34.09	38.00	39.44	68.20	24.85	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)
17907.967	49.47	-29.59	45.95	33.11	74.00	24.53	V
17933.633	49.37	-29.59	45.95	33.01	74.00	24.63	H
12243.333	46.27	-32.37	38.95	39.69	74.00	27.73	H
12330.967	45.45	-32.39	38.95	38.89	74.00	28.55	H
8494.167	43.74	-34.28	37.30	40.72	74.00	30.26	V
10236.933	43.20	-34.09	38.00	39.29	68.20	25.00	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)
17956.000	50.09	-29.59	45.95	33.73	74.00	23.91	V
17382.533	49.83	-29.44	43.80	35.47	68.20	18.37	V
12294.667	46.01	-32.12	39.00	39.13	74.00	27.99	H
12312.633	45.91	-32.12	39.00	39.03	74.00	28.09	H
9974.767	43.40	-34.00	37.95	39.45	68.20	24.80	V
8244.100	43.13	-34.48	37.00	40.61	74.00	30.87	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)
17935.467	49.36	-29.59	45.95	33.00	74.00	24.64	H
16996.433	49.10	-29.38	40.85	37.63	68.20	19.10	H
12330.233	45.87	-32.39	38.95	39.31	74.00	28.13	V
12014.167	45.31	-32.66	39.00	38.97	74.00	28.69	H
9585.367	43.26	-34.13	37.50	39.89	68.20	24.94	H
10236.933	43.07	-34.09	38.00	39.16	68.20	25.13	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)
16858.567	49.62	-29.50	40.00	39.12	68.20	18.58	V
17984.600	49.53	-29.59	45.95	33.17	74.00	24.47	H
12219.500	46.33	-32.12	38.90	39.55	74.00	27.67	V
12332.067	46.20	-32.39	38.95	39.64	74.00	27.80	H
10044.800	43.46	-34.07	38.00	39.53	68.20	24.74	V
9603.700	43.09	-34.13	37.50	39.72	68.20	25.11	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)
17966.267	49.23	-29.59	45.95	32.87	74.00	24.77	H
17930.333	49.03	-29.59	45.95	32.67	74.00	24.97	V
12042.033	45.22	-32.19	38.95	38.46	74.00	28.78	V
12307.500	45.21	-32.12	39.00	38.33	74.00	28.79	H
10125.100	43.70	-34.28	38.10	39.88	68.20	24.50	H
10257.467	43.25	-33.82	38.00	39.07	68.20	24.95	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)
16832.167	49.96	-29.50	40.00	39.46	68.20	18.24	V
17954.900	49.51	-29.59	45.95	33.15	74.00	24.49	V
12264.600	45.37	-32.37	38.95	38.79	74.00	28.63	H
11735.133	45.09	-32.71	39.20	38.60	74.00	28.91	V
10248.667	43.19	-33.82	38.00	39.01	68.20	25.01	V
10091.367	43.08	-33.75	38.05	38.78	68.20	25.12	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)
17956.000	49.14	-29.59	45.95	32.78	74.00	24.86	V
17407.467	49.13	-29.44	43.80	34.77	68.20	19.07	V
12325.833	45.28	-32.12	39.00	38.40	74.00	28.72	V
12032.867	45.27	-32.19	38.95	38.51	74.00	28.73	V
10096.133	43.11	-33.75	38.05	38.81	68.20	25.09	H
10114.833	43.08	-34.28	38.10	39.26	68.20	25.12	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)
16839.867	48.82	-29.50	40.00	38.32	68.20	19.38	H
17958.567	48.80	-29.59	45.95	32.44	74.00	25.20	V
12217.300	46.07	-32.12	38.90	39.29	74.00	27.93	V
12292.100	45.35	-32.12	39.00	38.47	74.00	28.65	H
8578.500	43.56	-34.87	37.50	40.93	68.20	24.64	V
10250.133	43.08	-33.82	38.00	38.90	68.20	25.12	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)
17473.833	49.63	-28.70	44.20	34.13	68.20	18.57	H
16914.667	49.51	-29.28	40.30	38.49	68.20	18.69	V
12013.433	46.12	-32.66	39.00	39.78	74.00	27.88	V
12310.433	45.90	-32.12	39.00	39.02	74.00	28.10	V
10105.667	43.26	-34.28	38.10	39.44	68.20	24.94	V
10161.767	42.75	-33.67	38.05	38.37	68.20	25.45	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)
17863.967	49.48	-29.59	45.95	33.12	74.00	24.52	H
17937.667	49.21	-29.59	45.95	32.85	74.00	24.79	H
12264.600	46.19	-32.37	38.95	39.61	74.00	27.81	V
12224.633	45.78	-32.12	38.90	39.00	74.00	28.22	H
8195.700	44.08	-34.94	36.90	42.12	74.00	29.92	V
10118.867	43.37	-34.28	38.10	39.55	68.20	24.83	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)
17929.967	49.99	-29.59	45.95	33.63	74.00	24.01	H
17134.300	48.91	-29.31	41.70	36.52	68.20	19.29	H
12333.167	45.97	-32.39	38.95	39.41	74.00	28.03	V
12262.033	45.39	-32.37	38.95	38.81	74.00	28.61	H
10243.900	42.93	-34.09	38.00	39.02	68.20	25.27	V
10197.700	42.92	-33.67	38.05	38.54	68.20	25.28	V

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)
17336.333	49.60	-28.74	43.40	34.94	68.20	18.60	V
16501.800	49.09	-29.90	39.00	39.99	68.20	19.11	V
12329.500	46.24	-32.39	38.95	39.68	74.00	27.76	H
12332.067	45.48	-32.39	38.95	38.92	74.00	28.52	H
8489.033	43.16	-34.28	37.30	40.14	74.00	30.84	H
10182.300	43.15	-33.67	38.05	38.77	68.20	25.05	H

A.6. Band Edges Compliance

A6.1 Band Edges - Radiated

Measurement Limit:

Standard	Limit (dBm/MHz)	
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.	

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.10	P
	5825 MHz	Fig.11	P
802.11n HT20	5745 MHz	Fig.12	P
	5825 MHz	Fig.13	P
802.11n HT40	5755 MHz	Fig.14	P
	5795 MHz	Fig.15	P
802.11ac HT20	5745 MHz	Fig.16	P
	5825 MHz	Fig.17	P
802.11ac HT40	5755 MHz	Fig.18	P
	5795 MHz	Fig.19	P
802.11ac HT80	5775 MHz	Fig.20 Fig.21	P

Conclusion: PASS

Test graphs as below:

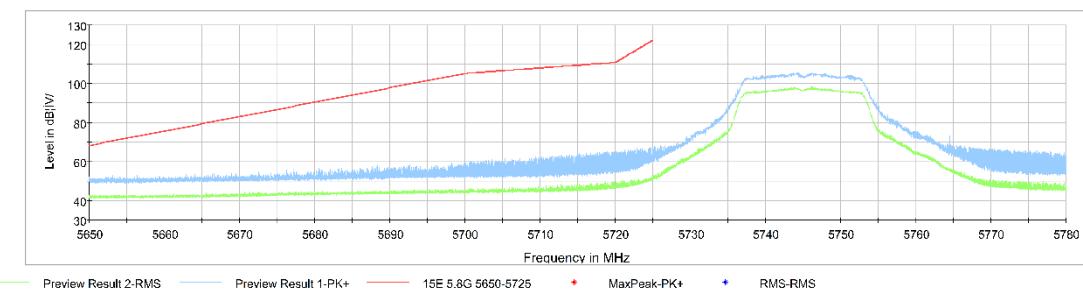


Fig. 10 Band Edges (802.11a Ch149, 5745MHz)

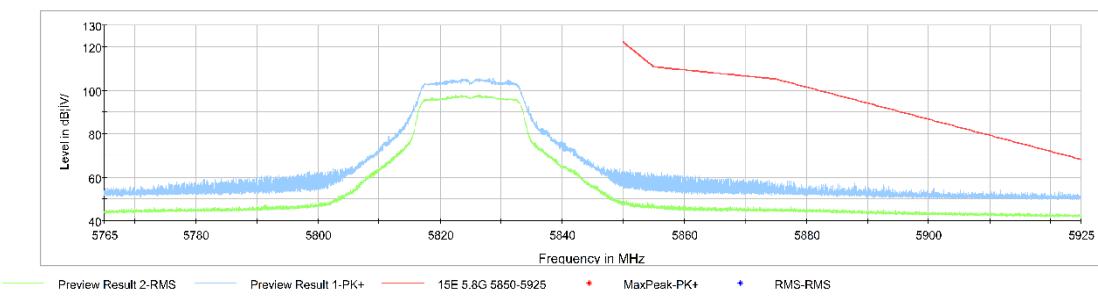


Fig. 11 Band Edges (802.11a Ch165, 5825MHz)

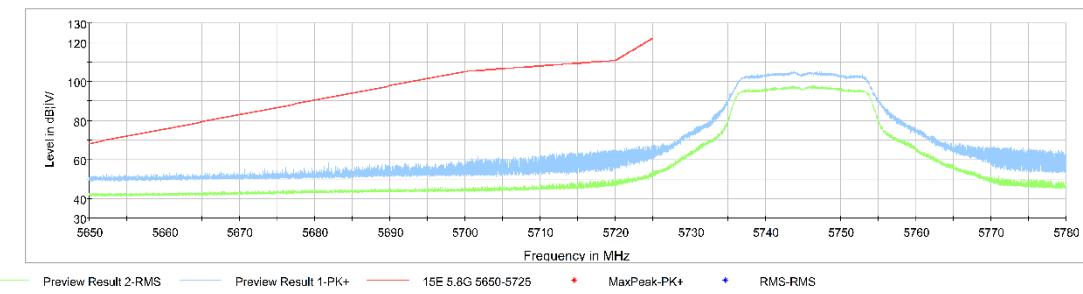


Fig. 12 Band Edges (802.11n-HT20 Ch149, 5745MHz)

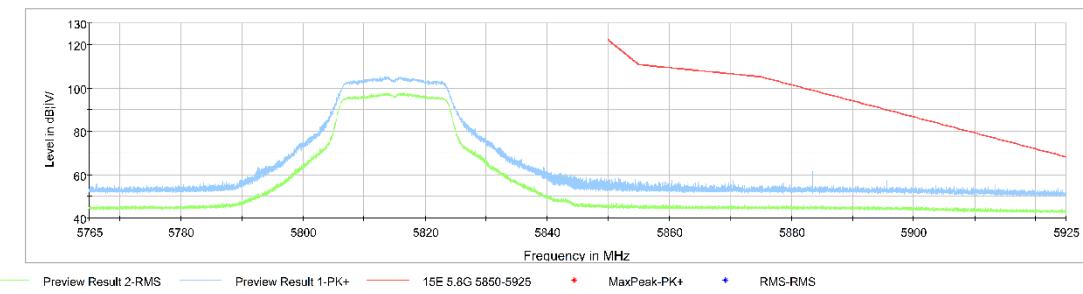


Fig. 13 Band Edges (802.11n-HT20 Ch165, 5825MHz)

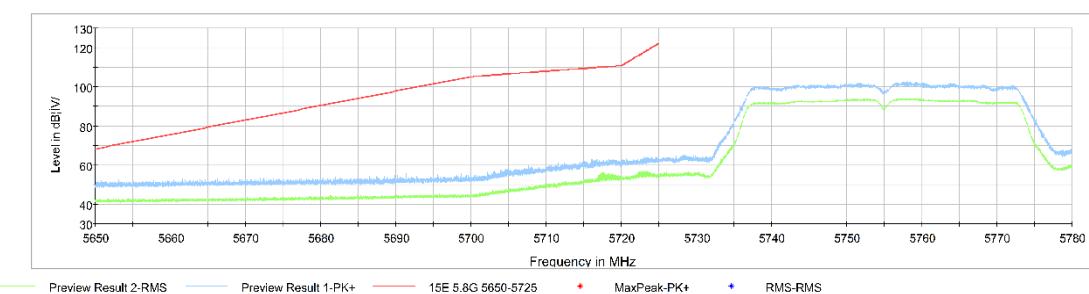


Fig. 14 Band Edges (802.11n-HT40 Ch151, 5755MHz)

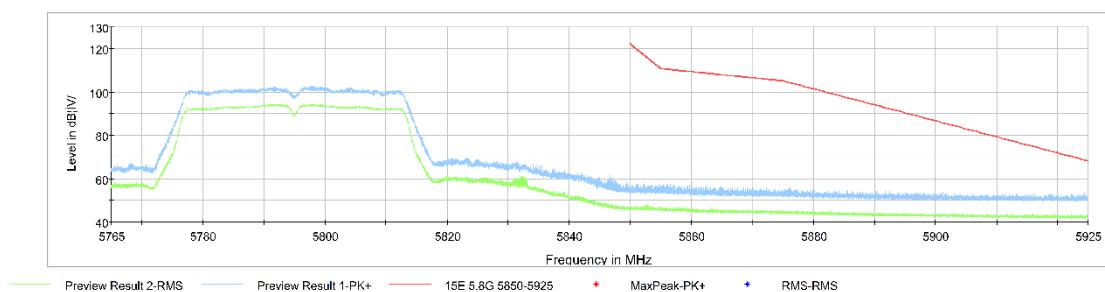


Fig. 15 Band Edges (802.11n-HT40 Ch159, 5795MHz)

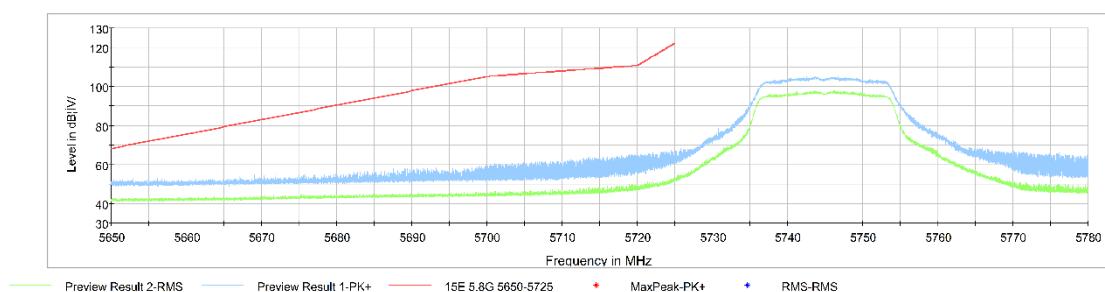


Fig. 16 Band Edges (802.11ac-HT20 Ch149, 5745MHz)

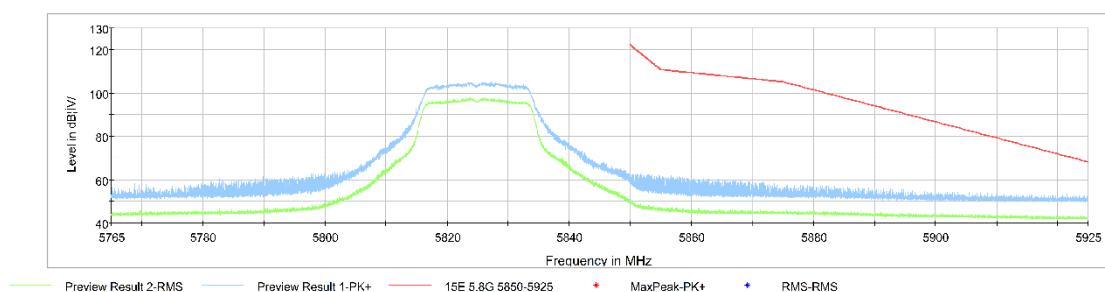


Fig. 17 Band Edges (802.11ac-HT20 Ch165, 5825MHz)

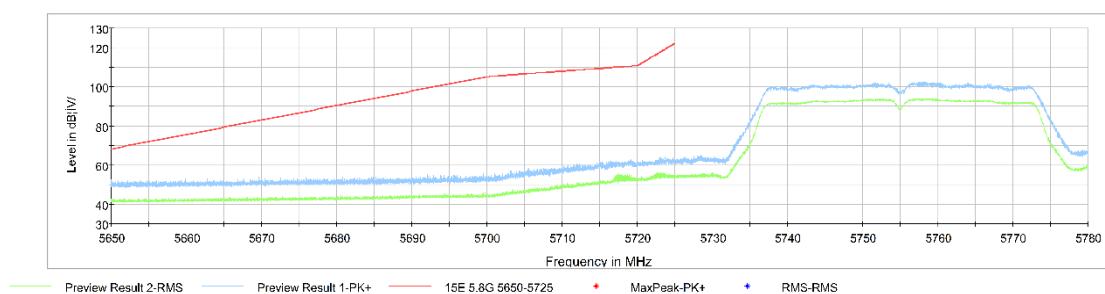


Fig. 18 Band Edges (802.11ac-HT40 Ch151, 5755MHz)

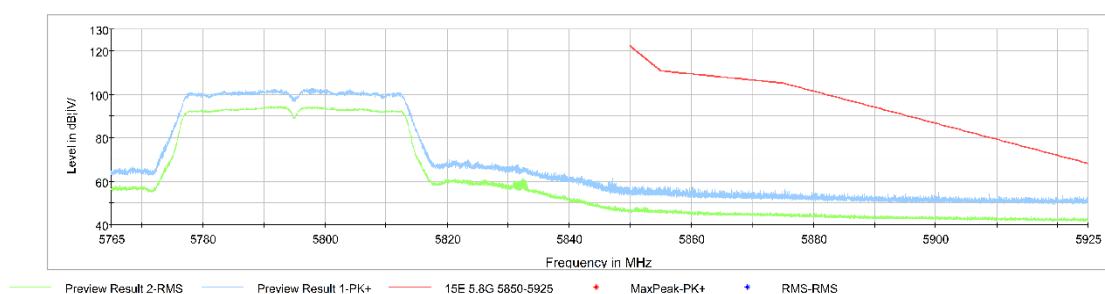


Fig. 19 Band Edges (802.11ac-HT40 Ch159, 5795MHz)

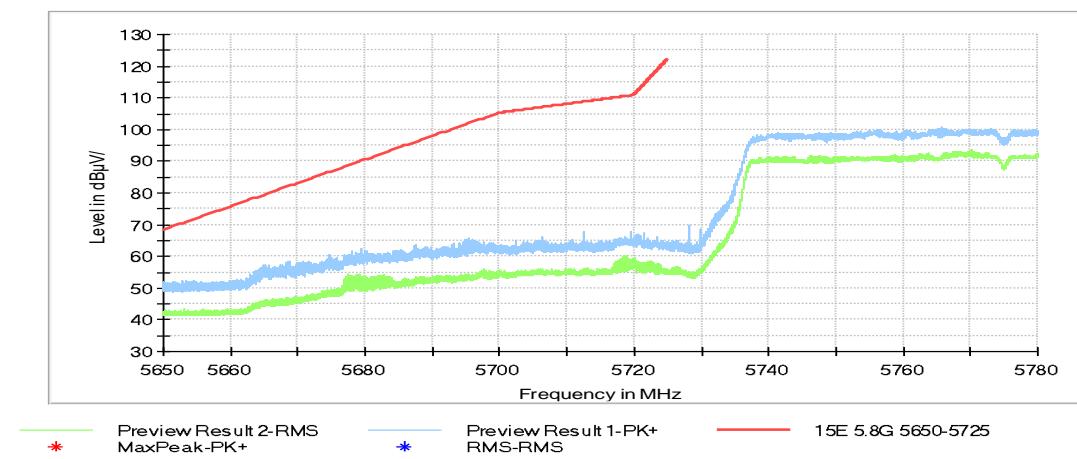


Fig. 20 Band Edges (802.11ac-HT80 Ch155, 5775MHz)

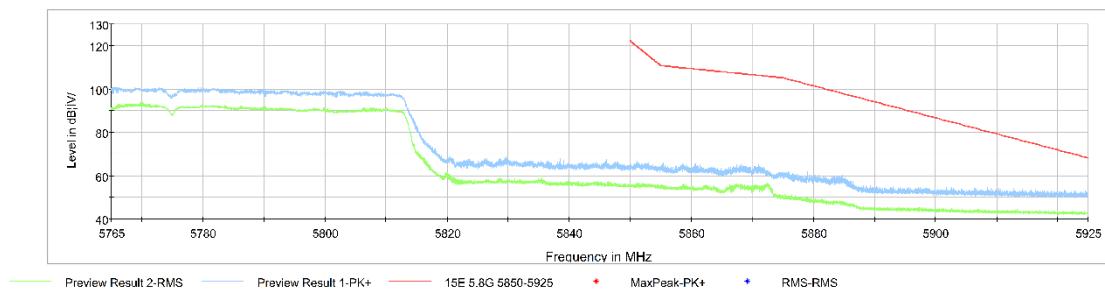


Fig. 21 Band Edges (802.11ac-HT80, 5775MHz)

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.08dB, k=2.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion	
		With charger			
		802.11a	Idle		
0.15 to 0.5	66 to 56				
0.5 to 5	56			P	
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)

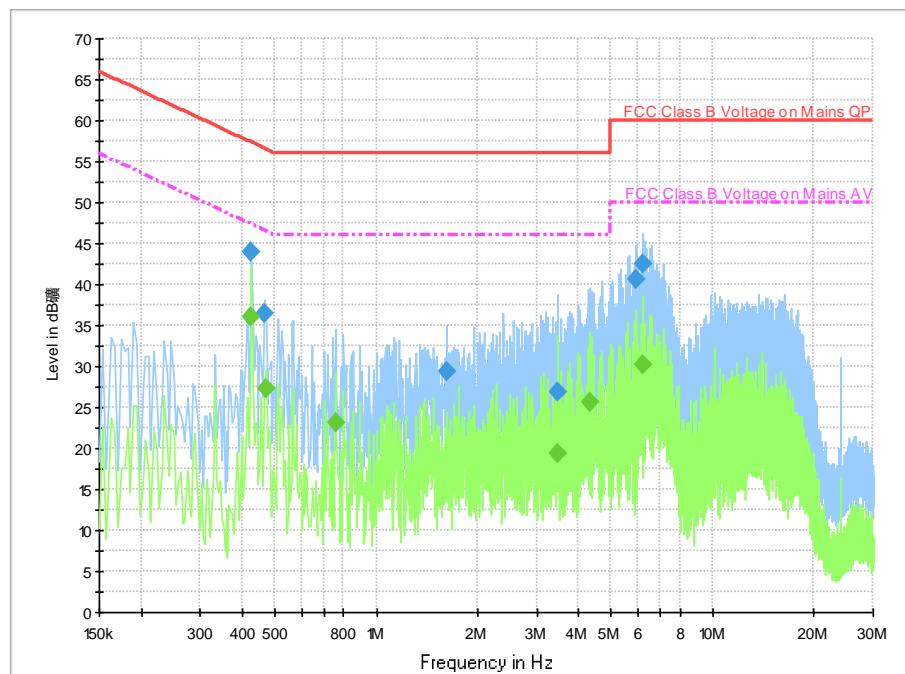
Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion	
		With charger			
		802.11a	Idle		
0.15 to 0.5	56 to 46				
0.5 to 5	46			P	
5 to 30	50				

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

The measurement is made according to ANSI C63.10 .

Conclusion: PASS

Test graphs as below:

Traffic:

Fig. 22 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.

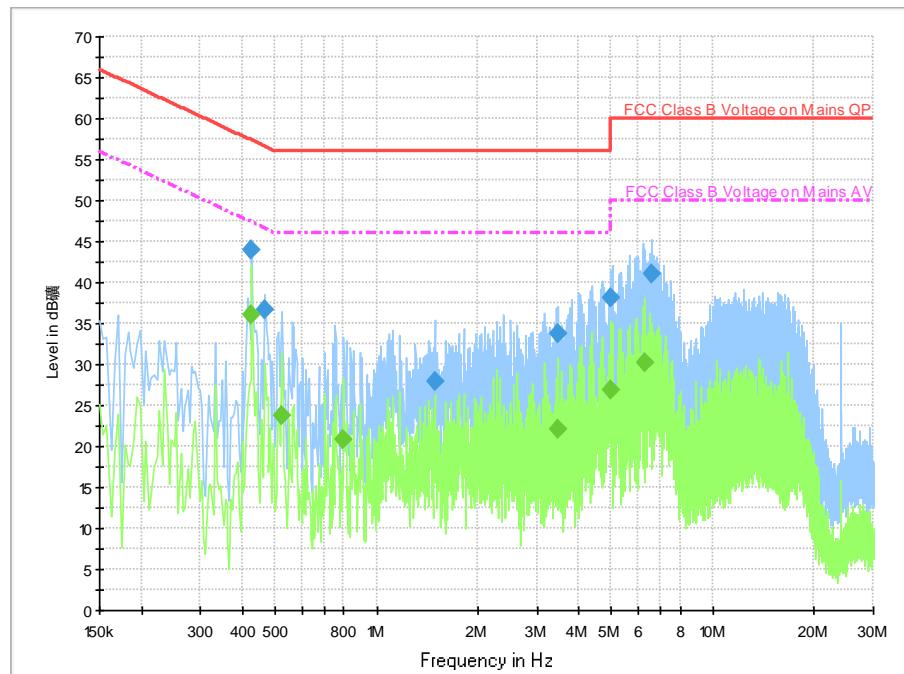
Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.426000	43.9	2000.	9.000	On	L1	19.7	13.4	57.3	
0.466000	36.4	2000.	9.000	On	L1	19.7	20.2	56.6	
1.626000	29.4	2000.	9.000	On	L1	19.6	26.6	56.0	
3.458000	26.9	2000.	9.000	On	L1	19.6	29.1	56.0	
5.906000	40.6	2000.	9.000	On	L1	19.6	19.4	60.0	
6.234000	42.4	2000.	9.000	On	L1	19.6	17.6	60.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.426000	36.1	2000.	9.000	On	L1	19.7	11.2	47.3	
0.470000	27.2	2000.	9.000	On	L1	19.7	19.3	46.5	
0.758000	23.2	2000.	9.000	On	L1	19.7	22.8	46.0	
3.458000	19.4	2000.	9.000	On	L1	19.6	26.6	46.0	
4.326000	25.7	2000.	9.000	On	L1	19.6	20.3	46.0	
6.234000	30.3	2000.	9.000	On	L1	19.6	19.7	50.0	

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

Idle:

Fig. 23 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 (dB μ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.426000	44.0	2000.	9.000	On	L1	19.7	13.4	57.3	
0.466000	36.6	2000.	9.000	On	L1	19.7	19.9	56.6	
1.490000	28.0	2000.	9.000	On	L1	19.6	28.0	56.0	
3.482000	33.8	2000.	9.000	On	L1	19.6	22.2	56.0	
4.958000	38.1	2000.	9.000	On	L1	19.6	17.9	56.0	
6.562000	41.1	2000.	9.000	On	L1	19.6	18.9	60.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.426000	36.0	2000.0	9.000	On	L1	19.7	11.3	47.3	
0.522000	23.8	2000.0	9.000	On	L1	19.7	22.2	46.0	
0.798000	20.8	2000.0	9.000	On	L1	19.7	25.2	46.0	
3.482000	22.2	2000.0	9.000	On	L1	19.6	23.8	46.0	
4.958000	26.9	2000.0	9.000	On	L1	19.6	19.1	46.0	
6.282000	30.3	2000.0	9.000	On	L1	19.6	19.7	50.0	

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case 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 C: Accreditation Certificate



*** END OF REPORT BODY ***