



FCC PART 15C TEST REPORT No.I22Z62030-IOT21

for

BLU Products,Inc.

Smart phone

B135DL

With

FCC ID: YHLBLUB135DL

Hardware Version: V1.0

Software Version: BLU_B135DL_V12.0.01.05.01.04

Issued Date: 2023-01-30

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.

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REPORT HISTORY

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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

Conducted testing Location: CTTL(huayuan North Road)

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

Radiated testing Location: CTTL(BDA)

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

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2022-11-04

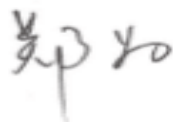
Testing End Date: 2023-01-30

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

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City: Doral
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2.2. Manufacturer Information

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City: Doral
Contact: Zeng wei
Country: America
Email: zwei@ctasiasz.com
Telephone: 305.715.7171
Fax: 305.436.8819

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY

EQUIPMENT(AE)

3.1. About EUT

Description	Smart phone
Model name	B135DL
FCC ID	YHLBLUB135DL
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*	IMEI	HW Version	SW Version
UT33a	356074290009021	V1.0	BLU_B135DL_V12.0.01.05.01.04
UT68a	356074290014740	V1.0	BLU_B135DL_V12.0.01.05.01.04

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

UT33a is used for Conduction test, UT68a is used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Battery	/	/
AE2	Battery	/	/
AE3	Charger	/	/
AE4	Charger	/	/
AE5	USB Cable	/	/
AE6	USB Cable	/	/

AE1

Model	TN-BP4000N3
Manufacturer	Guangdong Fenghua New Energy Co.,Ltd.
Capacity	4000mAh
Nominal Voltage	3.85V

AE2

Model	TN-BP4000N3
Manufacturer	Ganfeng
Capacity	4000mAh
Nominal Voltage	3.85V

AE3

Model	TN-050200U3
Manufacturer	Dong Guan City GangQi Electronic Co.,Ltd.
Length of cable	/

AE4

Model	TN-050200U3
Manufacturer	Guangdong Beicom Electronics Co.,Ltd.
Length of cable	/

AE5

Model	336275
Manufacturer	SUNTOPS ELECTRONICS CO.,LTD
Length of cable	/

AE6

Model	T365-011B-1	/
Manufacturer	Shenzhen Yihuaxing Electronics Co. Ltd.	/
Length of cable	/	/

*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 Smart phone 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 CFR 47, Part 15, Subpart C and E:	
FCC Part15	15.205 Restricted bands of operation;	2018
	15.209 Radiated emission limits, general requirements;	
	15.407 General technical requirements	
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

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	2023-05-15
2	LISN	ENV216	101200	Rohde & Schwarz	1 year	2023-06-29
3	Test Receiver	ESCI	100344	Rohde & Schwarz	1 year	2023-03-21
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU26	100376	R&S	1 year	2023-09-22
2	EMI Antenna	3115	00146404	ETS-Lindgren	1 year	2023-03-08
3	EMI Antenna	3117	00119024	ETS-Lindgren	1 year	2023-06-07

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)
$30\text{MHz} \leq f \leq 2\text{GHz}$	1.22
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	1.22
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.22
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	1.51
$12.75\text{GHz} \leq f \leq 26\text{GHz}$	1.51
$26\text{GHz} \leq f \leq 40\text{GHz}$	1.59

Radiated (k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.73
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.58
$18\text{GHz} \leq f \leq 40\text{GHz}$	3.37

8.6. AC Power-line Conducted Emission

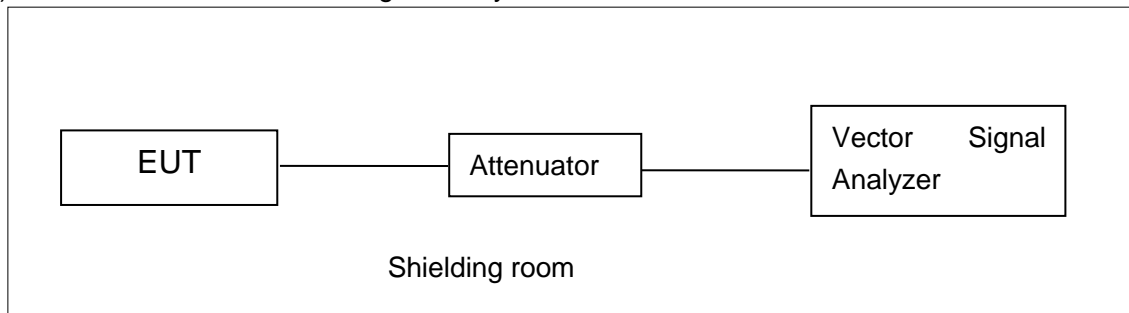
Measurement Uncertainty: 3.08dB, k=2

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

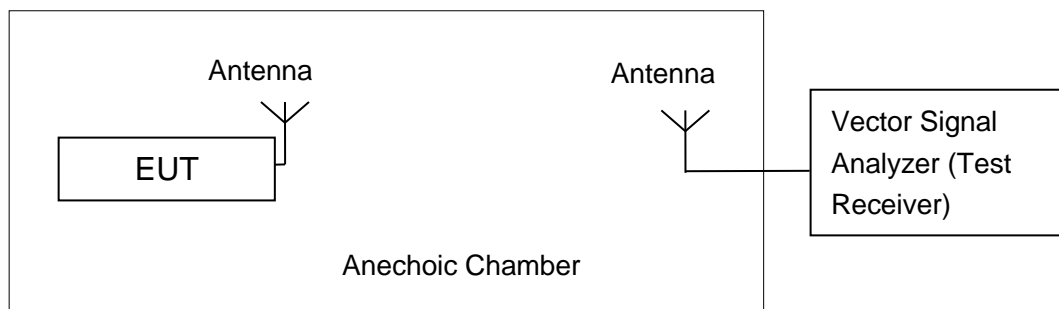


A.1.2. Radiated Emission Measurements

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 -1.33dBi 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	16.60	16.86	16.75
	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	16.44	16.44	16.68
	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	16.69	16.62	16.51
	MCS1	/	/	/
	MCS2	/	/	/
	MCS3	/	/	/
	MCS4	/	/	/
	MCS5	/	/	/
	MCS6	/	/	/
	MCS7	/	/	/
	MCS8	/	/	/

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	16.32	16.42
	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-HT40 mode

Mode	Data Rate (Index)	Test Result (dBm)	
		5755MHz (Ch151)	5795MHz (Ch159)
802.11ac (40MHz)	MCS0	16.44	16.57
	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	16.45
	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.

The duty cycle of all mode are 100%

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	2.91	P
	157	2.72	P
	165	2.31	P
802.11ac HT20	149	2.71	P
	157	2.65	P
	165	2.01	P
802.11ac HT40	151	-0.74	P
	159	-0.43	P
802.11ac HT80	155	-3.80	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	16.35	P
	157	Fig.2	16.30	P
	165	Fig.3	16.35	P
802.11ac HT20	149	Fig.4	17.60	P
	157	Fig.5	17.60	P
	165	Fig.6	17.55	P
802.11ac HT40	151	Fig.7	36.08	P
	159	Fig.8	36.32	P
802.11ac HT80	155	Fig.9	76.48	P

Conclusion: PASS

Test graphs as below:

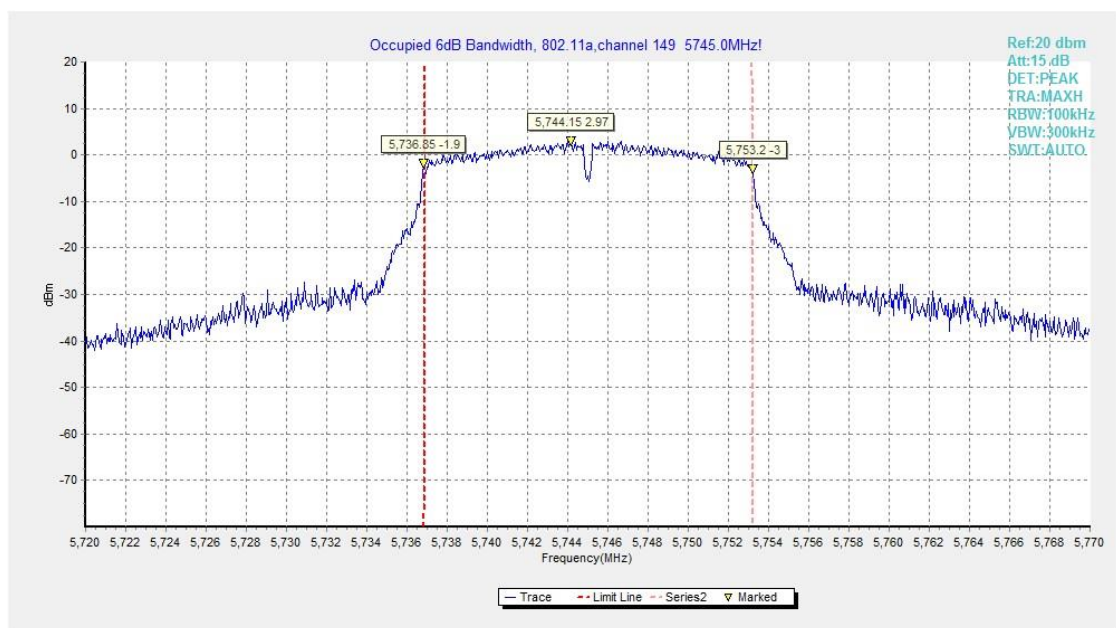


Fig. 1 Occupied 6dB Bandwidth (802.11a, Ch 149)

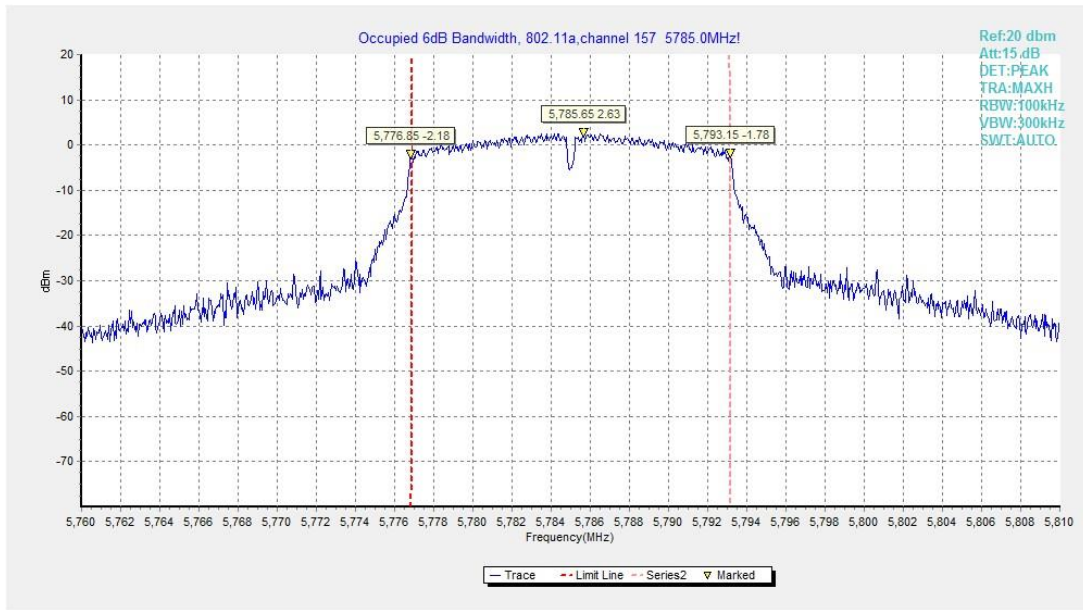


Fig. 2 Occupied 6dB Bandwidth (802.11a, Ch 157)

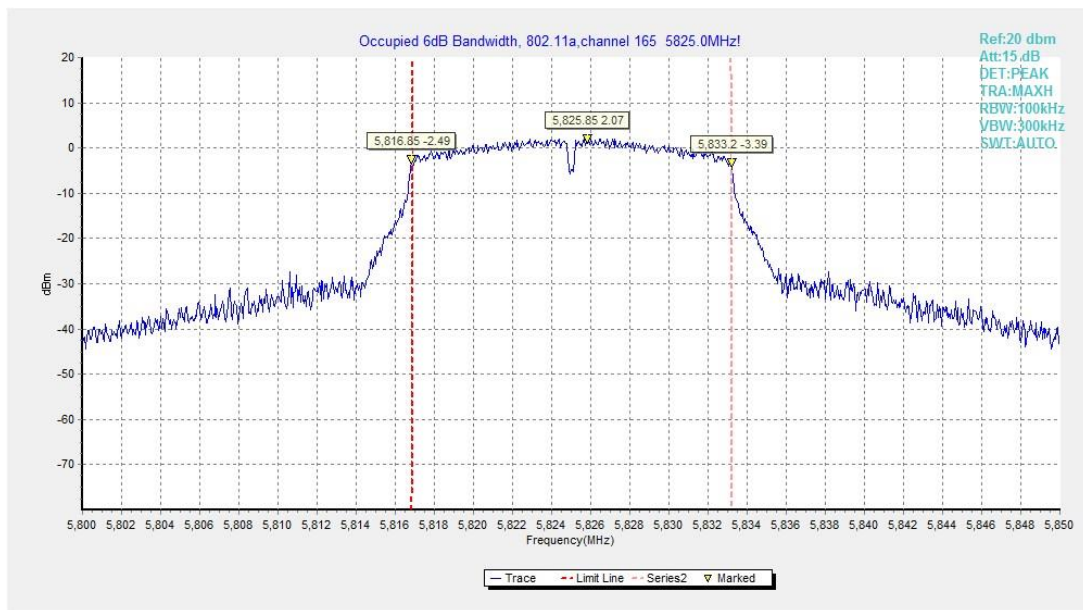


Fig. 3 Occupied 6dB Bandwidth (802.11a, Ch 165)

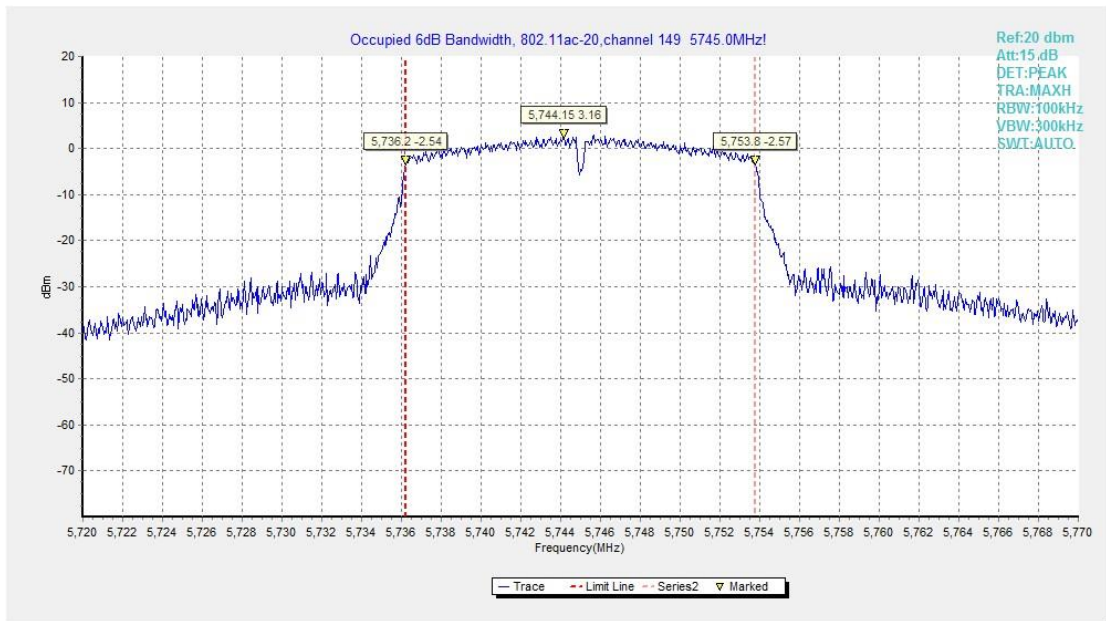


Fig. 4 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 149)

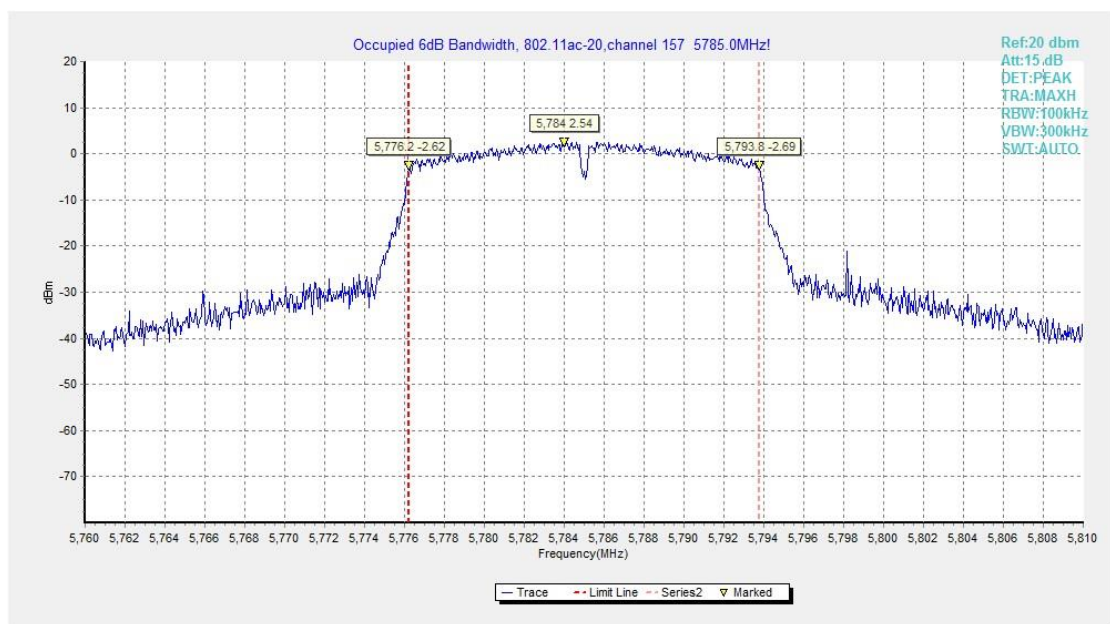


Fig. 5 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 157)

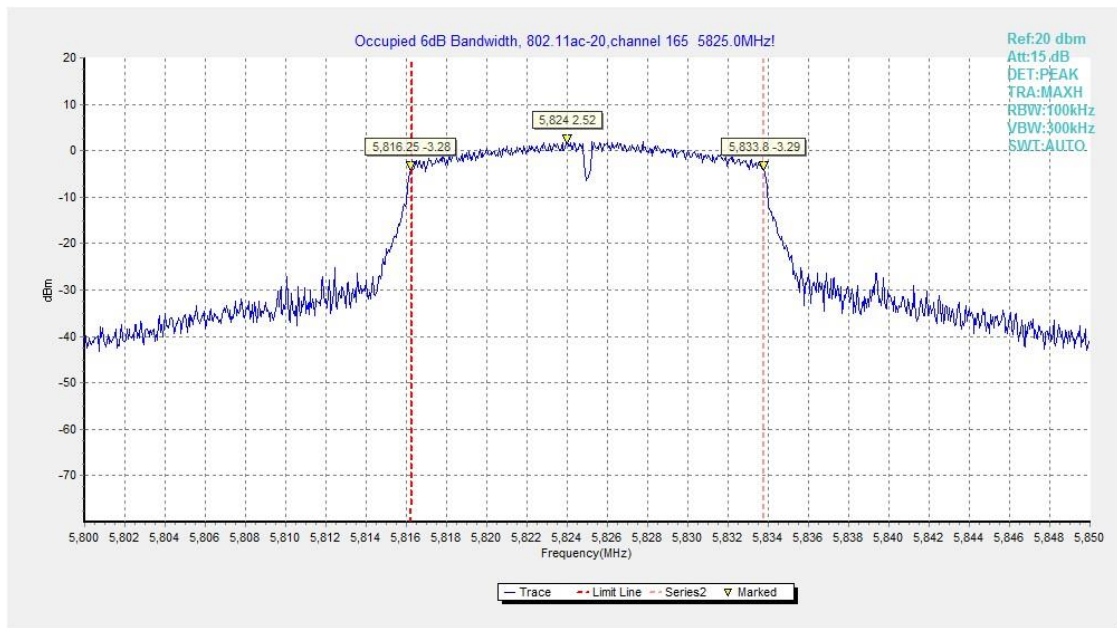


Fig. 6 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 165)

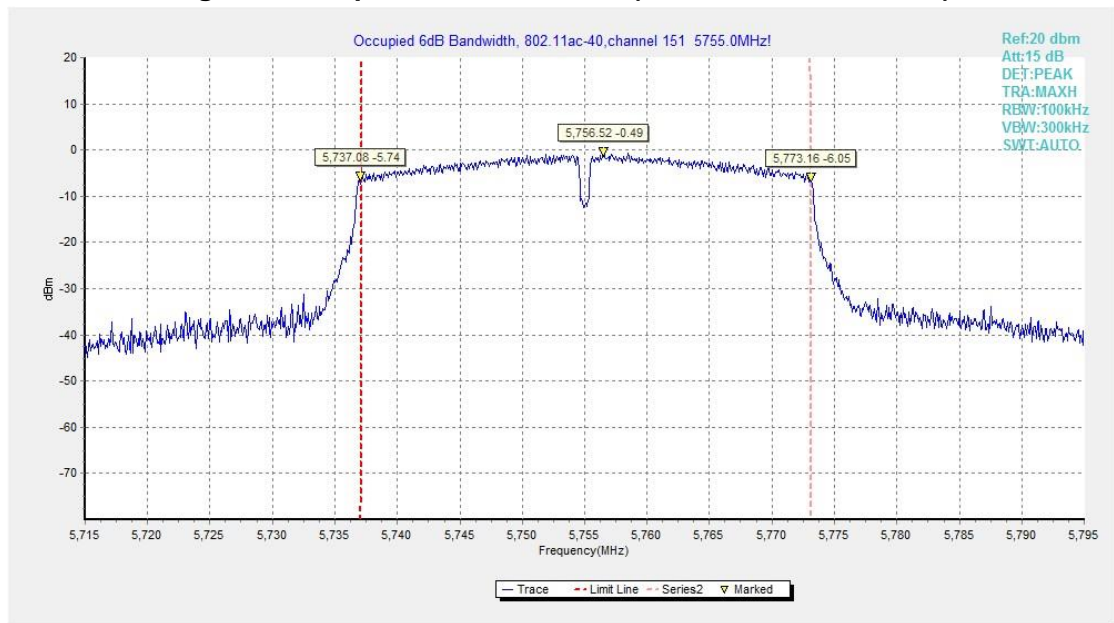


Fig. 7 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 151)

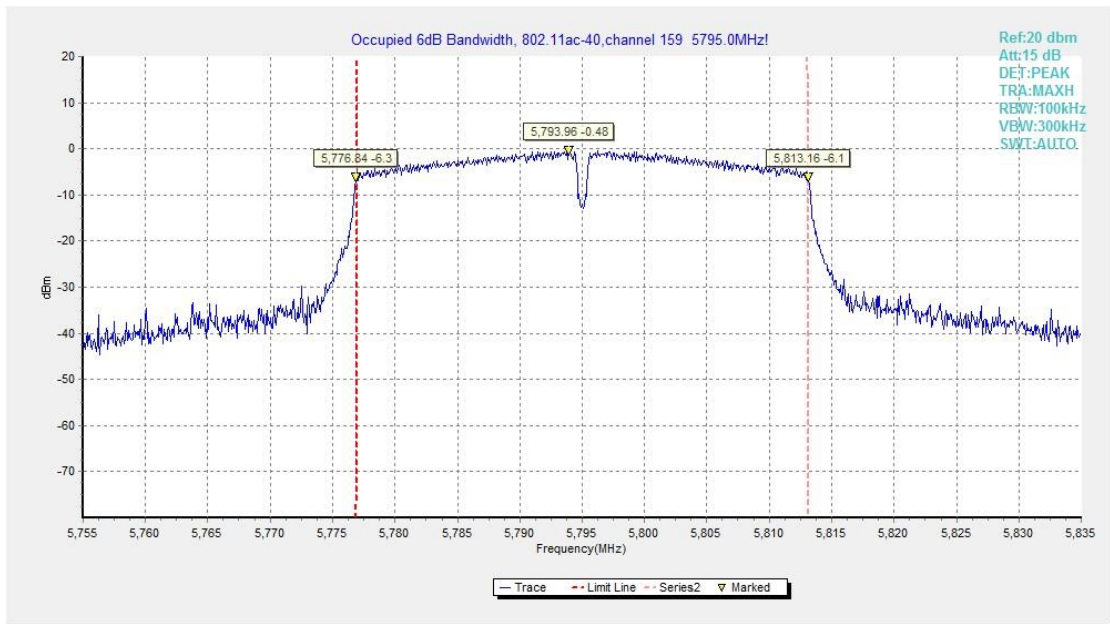


Fig. 8 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 159)

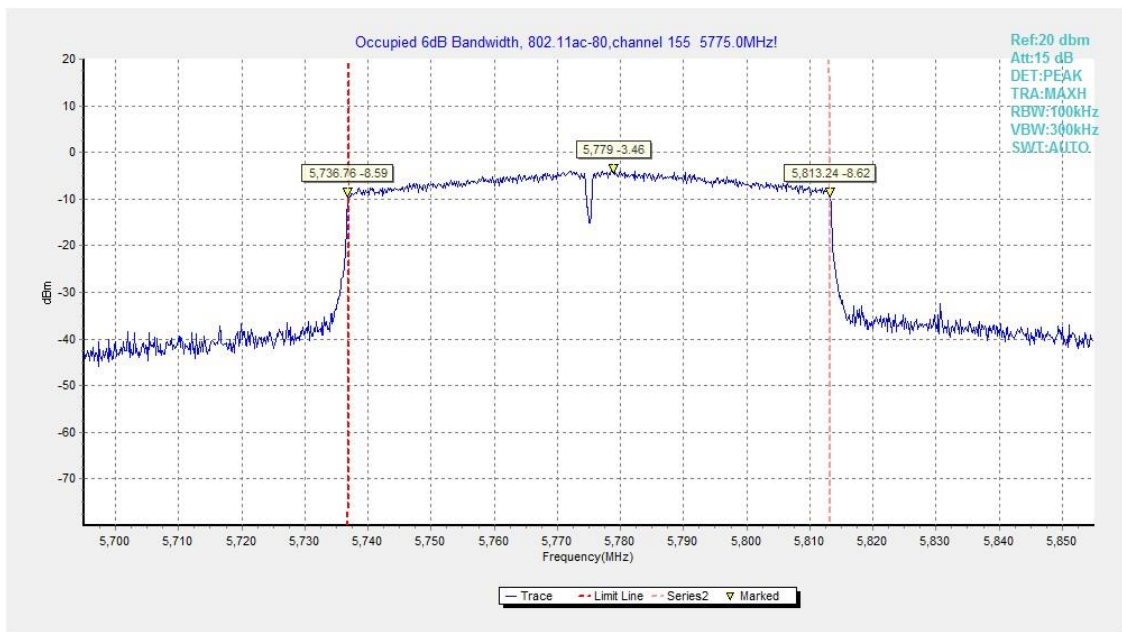


Fig. 9 Occupied 6dB Bandwidth (802.11ac-HT80, Ch 155)

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
	165	26.5 GHz~ 40 GHz	---	P
		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
	165	26.5 GHz~ 40 GHz	---	P
		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)
11492.400	49.24	-32.26	38.84	42.67	54.00	4.76	V
11490.750	49.02	-32.26	38.84	42.45	54.00	4.98	V
17995.050	40.25	-25.50	46.66	19.09	54.00	13.75	H
17983.500	40.24	-25.50	46.66	19.08	54.00	13.76	H
13340.400	36.91	-29.49	39.71	26.69	54.00	17.09	V
13298.600	36.89	-29.49	39.71	26.67	54.00	17.11	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)
11568.300	51.28	-32.31	38.91	44.69	54.00	2.72	H
11571.050	51.04	-32.31	38.91	44.45	54.00	2.96	H
17968.650	39.51	-25.50	46.66	18.35	54.00	14.49	H
17926.300	39.47	-25.50	46.66	18.31	54.00	14.53	V
13333.800	36.44	-29.49	39.71	26.22	54.00	17.56	V
14499.250	36.27	-28.59	42.46	22.40	54.00	17.73	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)
11650.250	53.16	-32.31	38.91	46.57	54.00	0.84	H
11650.800	52.81	-32.31	38.91	46.22	54.00	1.19	H
17909.250	39.53	-25.50	46.66	18.37	54.00	14.47	V
17946.650	39.37	-25.50	46.66	18.21	54.00	14.63	H
14477.800	36.94	-28.59	42.46	23.07	54.00	17.06	H
13300.800	36.26	-29.49	39.71	26.04	54.00	17.74	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)
11490.750	48.38	-32.26	38.84	41.81	54.00	5.62	H
11489.100	48.24	-32.26	38.84	41.67	54.00	5.76	H
17924.100	39.77	-25.50	46.66	18.61	54.00	14.23	V
17989.550	39.68	-25.50	46.66	18.52	54.00	14.32	V
14497.600	36.60	-28.59	42.46	22.73	54.00	17.40	H
13299.150	36.45	-29.49	39.71	26.23	54.00	17.55	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)
11569.400	52.44	-32.31	38.91	45.85	54.00	1.56	V
11566.650	51.59	-32.31	38.91	45.00	54.00	2.41	V
17975.250	39.77	-25.50	46.66	18.61	54.00	14.23	H
17966.450	39.64	-25.50	46.66	18.48	54.00	14.36	V
14484.400	36.66	-28.59	42.46	22.79	54.00	17.34	H
13296.400	36.62	-29.49	39.71	26.40	54.00	17.38	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)
11648.600	52.20	-32.31	38.91	45.61	54.00	1.80	V
11648.050	51.96	-32.31	38.91	45.37	54.00	2.04	H
17962.050	39.68	-25.50	46.66	18.52	54.00	14.32	V
17930.700	39.58	-25.50	46.66	18.42	54.00	14.42	V
14499.250	36.72	-28.59	42.46	22.85	54.00	17.28	H
14498.150	36.50	-28.59	42.46	22.63	54.00	17.50	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)
11516.050	48.43	-32.26	38.84	41.86	54.00	5.57	V
11509.450	48.01	-32.26	38.84	41.44	54.00	5.99	V
17944.450	39.84	-25.50	46.66	18.68	54.00	14.16	V
17975.250	39.55	-25.50	46.66	18.39	54.00	14.45	V
13295.850	36.54	-29.49	39.71	26.32	54.00	17.46	H
14492.650	36.47	-28.59	42.46	22.60	54.00	17.53	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)
11599.100	50.20	-32.31	38.91	43.61	54.00	3.80	V
11590.850	50.07	-32.31	38.91	43.48	54.00	3.93	V
17988.450	39.64	-25.50	46.66	18.48	54.00	14.36	H
17974.700	39.58	-25.50	46.66	18.42	54.00	14.42	V
14478.900	36.51	-28.59	42.46	22.64	54.00	17.49	H
14492.100	36.42	-28.59	42.46	22.55	54.00	17.58	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)
11491.300	48.64	-32.26	38.84	42.07	54.00	5.36	H
11494.050	48.18	-32.26	38.84	41.61	54.00	5.82	V
17974.150	39.47	-25.50	46.66	18.31	54.00	14.53	V
17955.450	39.43	-25.50	46.66	18.27	54.00	14.57	V
14498.700	36.74	-28.59	42.46	22.87	54.00	17.26	H
14497.600	36.71	-28.59	42.46	22.84	54.00	17.29	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)
11568.850	51.83	-32.31	38.91	45.24	54.00	2.17	V
11568.300	50.99	-32.31	38.91	44.40	54.00	3.01	V
17921.350	39.55	-25.50	46.66	18.39	54.00	14.45	V
17935.100	39.51	-25.50	46.66	18.35	54.00	14.49	H
14496.500	36.52	-28.59	42.46	22.65	54.00	17.48	V
14483.300	36.43	-28.59	42.46	22.56	54.00	17.57	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)
11652.450	51.78	-32.31	38.91	45.19	54.00	2.22	V
11649.150	51.68	-32.31	38.91	45.09	54.00	2.32	V
17935.650	39.67	-25.50	46.66	18.51	54.00	14.33	V
17961.500	39.62	-25.50	46.66	18.46	54.00	14.38	H
14499.800	37.19	-28.59	42.46	23.32	54.00	16.81	V
14482.200	36.50	-28.59	42.46	22.63	54.00	17.50	V

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)
11514.400	46.01	-32.26	38.84	39.44	54.00	7.99	V
11519.350	45.93	-32.26	38.84	39.36	54.00	8.07	V
17961.500	39.78	-25.50	46.66	18.62	54.00	14.22	V
17972.500	39.60	-25.50	46.66	18.44	54.00	14.40	H
14494.300	37.27	-28.59	42.46	23.40	54.00	16.73	V
14483.850	36.57	-28.59	42.46	22.70	54.00	17.43	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)
11591.400	46.72	-32.31	38.91	40.13	54.00	7.28	V
11592.500	46.66	-32.31	38.91	40.07	54.00	7.34	V
17931.800	39.71	-25.50	46.66	18.55	54.00	14.29	H
17988.450	39.46	-25.50	46.66	18.30	54.00	14.54	H
14497.050	36.75	-28.59	42.46	22.88	54.00	17.25	H
14495.400	36.72	-28.59	42.46	22.85	54.00	17.28	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)
11550.150	43.99	-32.26	38.84	37.42	54.00	10.01	H
11541.900	43.90	-32.26	38.84	37.33	54.00	10.10	V
17975.250	39.97	-25.50	46.66	18.81	54.00	14.03	V
17904.300	39.59	-25.50	46.66	18.43	54.00	14.41	H
13296.950	36.70	-29.49	39.71	26.48	54.00	17.30	H
14494.850	36.49	-28.59	42.46	22.62	54.00	17.51	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)
11490.200	59.65	-32.26	38.84	53.08	74.00	14.35	V
11497.350	59.07	-32.26	38.84	52.50	74.00	14.93	V
17340.550	51.12	-25.95	44.35	32.71	68.20	17.08	H
17161.800	50.92	-26.60	43.36	34.16	68.20	17.28	V
13678.100	48.61	-29.50	40.43	37.68	68.20	19.59	H
14225.350	48.45	-28.99	42.00	35.43	68.20	19.75	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)
11569.950	63.07	-32.31	38.91	56.48	74.00	10.93	V
11571.050	61.25	-32.31	38.91	54.66	74.00	12.75	H
17466.500	51.14	-26.85	45.25	32.74	68.20	17.06	V
17244.300	50.21	-25.95	44.35	31.80	68.20	17.99	V
14118.650	49.03	-28.99	42.00	36.01	68.20	19.17	V
13620.900	48.36	-29.50	40.43	37.43	68.20	19.84	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)
11650.800	61.85	-32.31	38.91	55.26	74.00	12.15	H
11650.250	61.61	-32.31	38.91	55.02	74.00	12.39	H
17544.050	50.61	-26.85	45.25	32.21	68.20	17.59	H
17616.100	50.29	-25.74	45.95	30.08	68.20	17.91	V
13649.500	47.78	-29.50	40.43	36.85	68.20	20.42	V
13634.650	47.64	-29.50	40.43	36.71	68.20	20.56	V

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)
11491.300	58.78	-32.26	38.84	52.21	74.00	15.22	H
11496.250	57.97	-32.26	38.84	51.40	74.00	16.03	H
17451.100	50.60	-26.85	45.25	32.20	68.20	17.60	V
17265.200	50.24	-25.95	44.35	31.83	68.20	17.96	V
14596.050	48.56	-27.29	41.90	33.95	68.20	19.64	H
13638.500	48.49	-29.50	40.43	37.56	68.20	19.71	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)
11573.800	61.23	-32.31	38.91	54.64	74.00	12.77	H
11569.400	60.62	-32.31	38.91	54.03	74.00	13.38	V
17039.150	50.91	-26.32	42.36	34.86	68.20	17.29	H
17247.600	50.41	-25.95	44.35	32.00	68.20	17.79	H
13694.050	48.64	-29.10	40.86	36.87	68.20	19.56	V
14577.350	48.43	-27.29	41.90	33.82	68.20	19.77	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)
11649.700	64.66	-32.31	38.91	58.07	74.00	9.34	H
11650.250	61.77	-32.31	38.91	55.18	74.00	12.23	H
17402.150	50.33	-26.85	45.25	31.93	68.20	17.87	H
17899.350	50.17	-25.50	46.66	29.01	74.00	23.83	V
14620.800	48.61	-27.29	41.90	34.00	68.20	19.59	V
14087.300	48.49	-29.44	41.66	36.27	68.20	19.71	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)
11509.450	59.08	-32.26	38.84	52.51	74.00	14.92	V
11527.600	58.88	-32.26	38.84	52.31	74.00	15.12	V
17462.650	50.72	-26.85	45.25	32.32	68.20	17.48	H
17349.900	50.67	-25.95	44.35	32.26	68.20	17.53	H
13746.850	48.46	-29.10	40.86	36.69	68.20	19.74	V
14132.400	48.32	-28.99	42.00	35.30	68.20	19.88	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)
11589.750	61.83	-32.31	38.91	55.24	74.00	12.17	V
11599.100	60.95	-32.31	38.91	54.36	74.00	13.05	V
17958.200	51.24	-25.50	46.66	30.08	74.00	22.76	V
17248.150	50.71	-25.95	44.35	32.30	68.20	17.49	V
13644.550	48.60	-29.50	40.43	37.67	68.20	19.60	V
14175.300	48.43	-28.99	42.00	35.41	68.20	19.77	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)
11489.650	58.13	-32.26	38.84	51.56	74.00	15.87	V
11485.250	58.08	-32.26	38.84	51.51	74.00	15.92	V
17443.400	50.55	-26.85	45.25	32.15	68.20	17.65	H
17248.150	50.21	-25.95	44.35	31.80	68.20	17.99	H
13762.800	48.99	-29.10	40.86	37.22	68.20	19.21	V
14126.350	48.33	-28.99	42.00	35.31	68.20	19.87	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)
11568.300	62.36	-32.31	38.91	55.77	74.00	11.64	H
11571.050	61.51	-32.31	38.91	54.92	74.00	12.49	V
17557.250	51.23	-26.85	45.25	32.83	68.20	16.97	H
17358.150	50.87	-25.95	44.35	32.46	68.20	17.33	V
13647.300	48.75	-29.50	40.43	37.82	68.20	19.45	H
14660.400	48.67	-27.29	41.90	34.06	68.20	19.53	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)
11650.250	61.88	-32.31	38.91	55.29	74.00	12.12	H
11654.650	61.77	-32.31	38.91	55.18	74.00	12.23	H
17374.100	50.93	-25.95	44.35	32.52	68.20	17.27	H
17929.600	50.26	-25.50	46.66	29.10	74.00	23.74	V
14069.700	48.65	-29.44	41.66	36.43	68.20	19.55	V
13729.800	48.46	-29.10	40.86	36.69	68.20	19.74	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)
11514.950	56.07	-32.26	38.84	49.50	74.00	17.93	H
11518.250	55.42	-32.26	38.84	48.85	74.00	18.58	V
17348.800	51.24	-25.95	44.35	32.83	68.20	16.96	H
17909.250	50.93	-25.50	46.66	29.77	74.00	23.07	V
14049.900	48.68	-29.44	41.66	36.46	68.20	19.52	V
13756.200	48.50	-29.10	40.86	36.73	68.20	19.70	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)
11589.750	57.41	-32.31	38.91	50.82	74.00	16.59	V
11588.650	56.22	-32.31	38.91	49.63	74.00	17.78	V
17359.800	50.48	-25.95	44.35	32.07	68.20	17.72	H
17429.650	50.31	-26.85	45.25	31.91	68.20	17.89	V
14130.200	48.45	-28.99	42.00	35.43	68.20	19.75	H
14124.700	48.23	-28.99	42.00	35.21	68.20	19.97	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)
11555.100	54.26	-32.26	38.84	47.69	74.00	19.74	V
11539.700	54.09	-32.26	38.84	47.52	74.00	19.91	V
17251.450	50.33	-25.95	44.35	31.92	68.20	17.87	V
17953.800	50.26	-25.50	46.66	29.10	74.00	23.74	H
14696.150	48.69	-28.32	41.35	35.67	68.20	19.51	H
14602.650	48.57	-27.29	41.90	33.96	68.20	19.63	V

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	P

Conclusion: PASS

Test graphs as below:

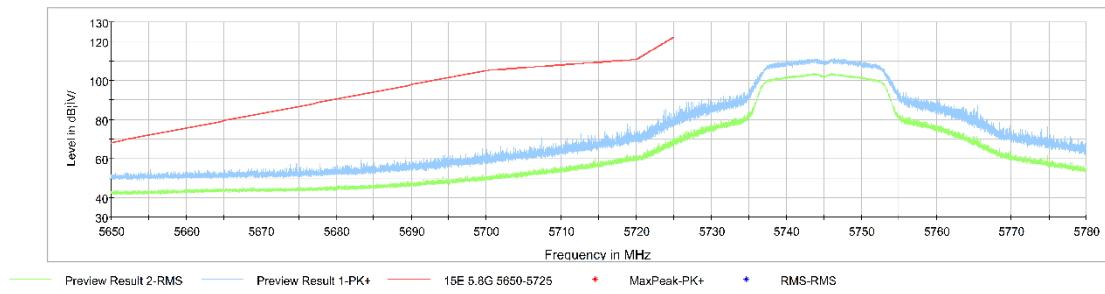


Fig. 10 Band Edges (802.11a Ch149,5745MHz)

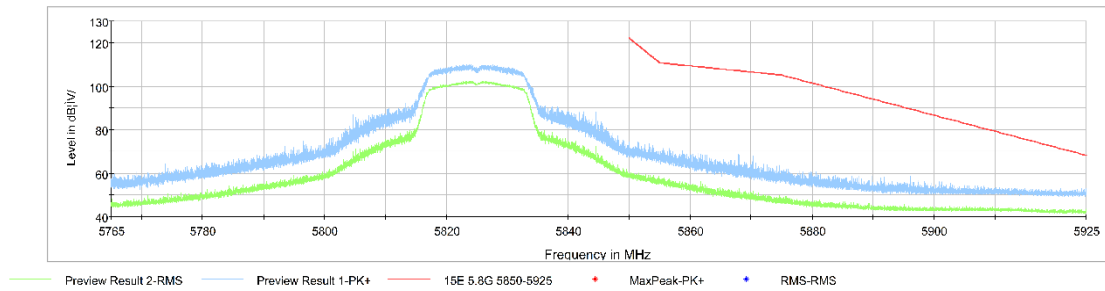


Fig. 11 Band Edges (802.11a Ch165, 5825MHz)

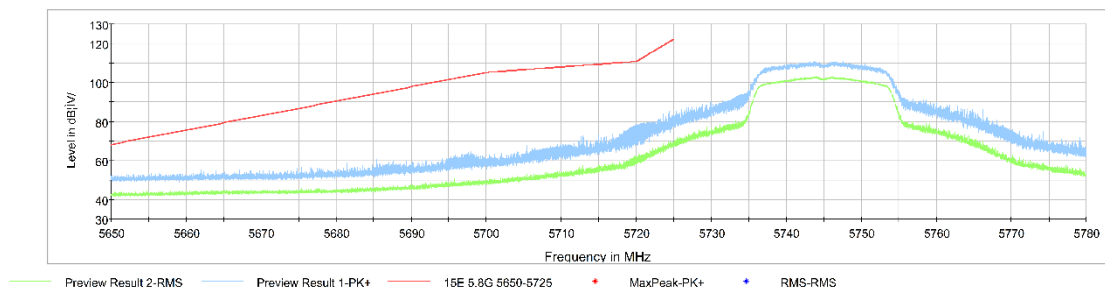


Fig. 12 Band Edges (802.11n-HT20 Ch149, 5745MHz)

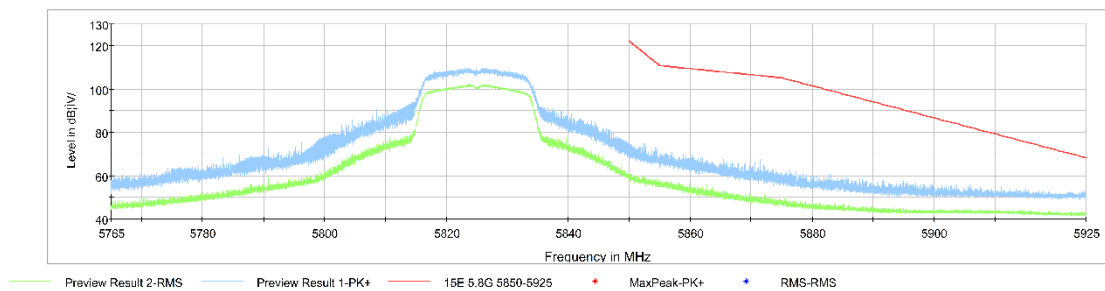


Fig. 13 Band Edges (802.11n-HT20 Ch165, 5825MHz)

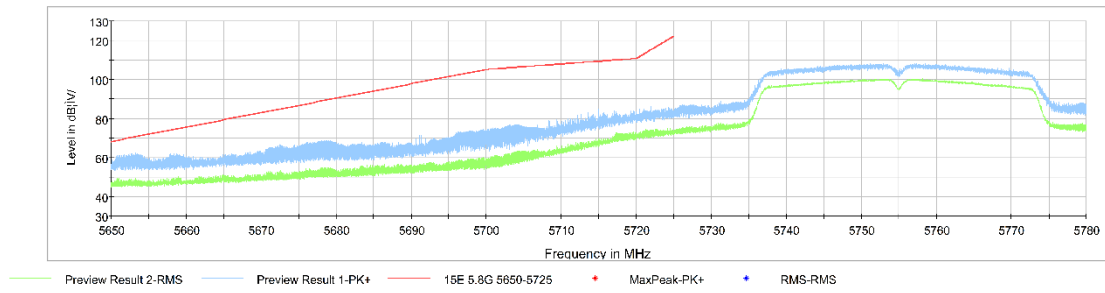


Fig. 14 Band Edges (802.11n-HT40 Ch151, 5755MHz)

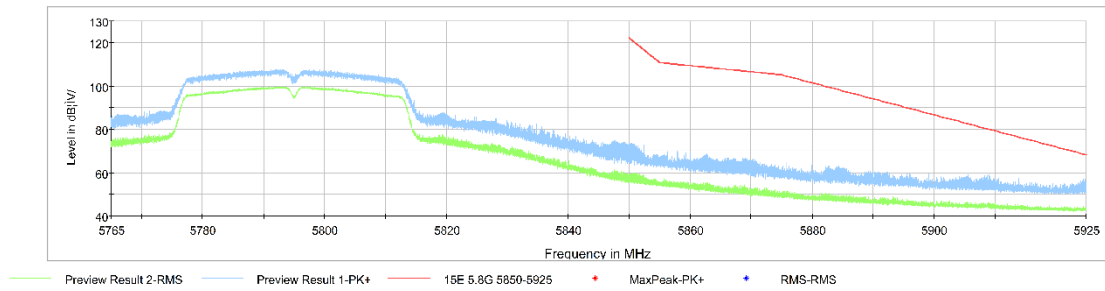


Fig. 15 Band Edges (802.11n-HT40 Ch159, 5795MHz)

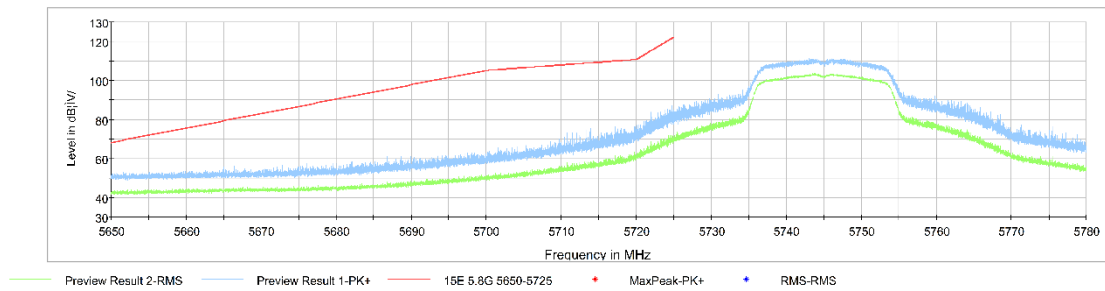


Fig. 16 Band Edges (802.11ac-HT20 Ch149, 5745MHz)

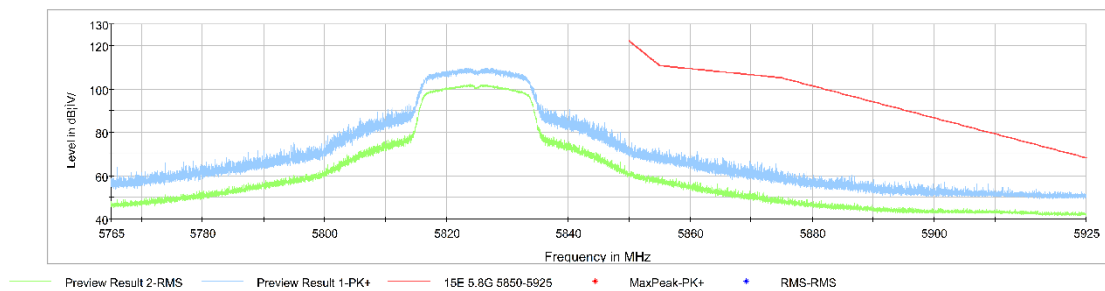


Fig. 17 Band Edges (802.11ac-HT20 Ch165, 5825MHz)

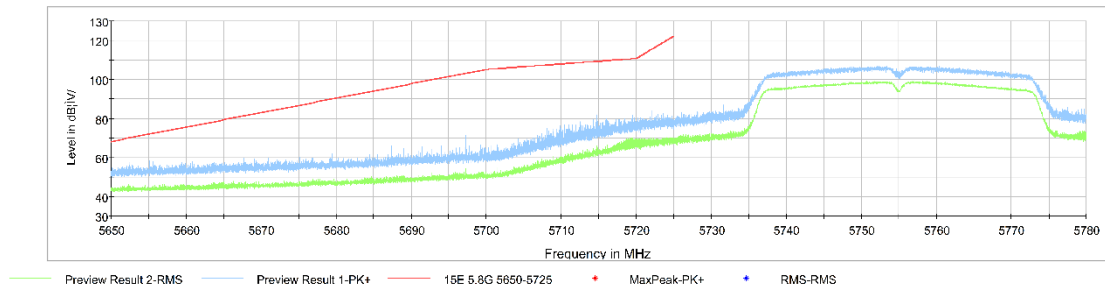


Fig. 18 Band Edges (802.11ac-HT40 Ch151, 5755MHz)

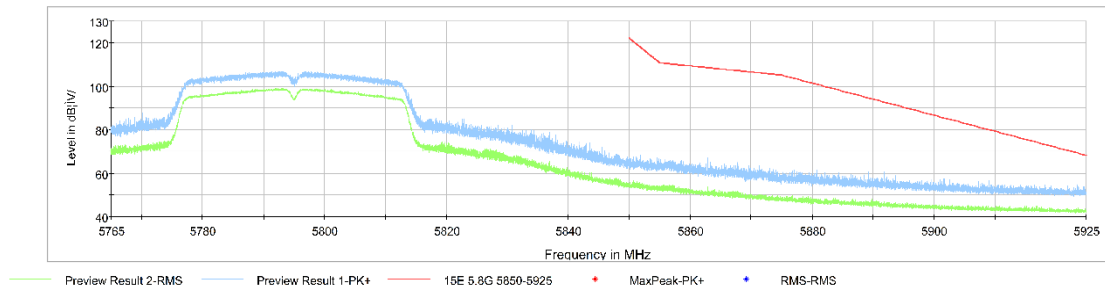


Fig. 19 Band Edges (802.11ac-HT40 Ch159, 5795MHz)

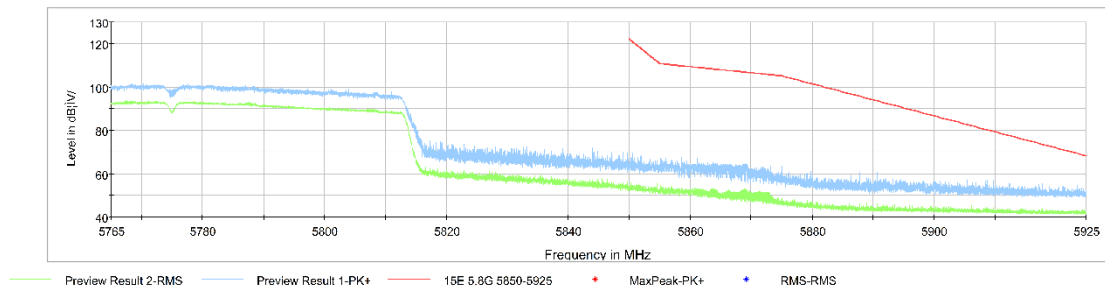


Fig. 20 Band Edges (802.11ac-HT80 Ch155, 5775MHz)

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 3.08\text{dB}$, $k=2$.

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	Fig.21	Fig.22	P
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 μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.21	Fig.22	P
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.

The measurement is made according to ANSI C63.10 .

Conclusion: PASS

Test graphs as below:

Traffic:

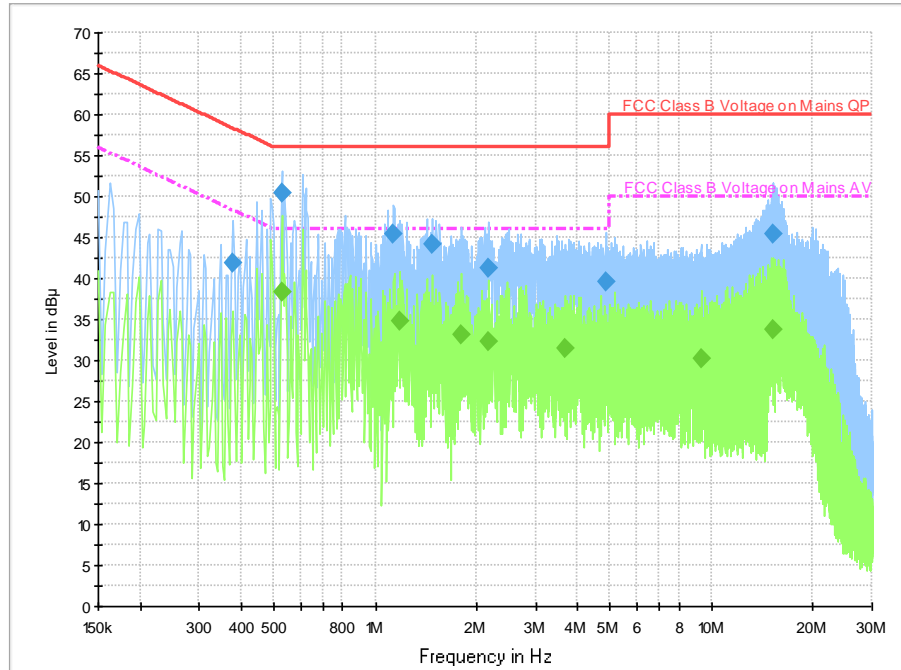


Fig. 21 AC Power line Conducted Emission-802.11a

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)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.378000	41.9	9.000	On	L1	19.7	16.4	58.3	
0.526000	50.5	9.000	On	L1	19.7	5.5	56.0	
1.134000	45.4	9.000	On	L1	19.6	10.6	56.0	
1.474000	44.2	9.000	On	L1	19.7	11.8	56.0	
2.166000	41.3	9.000	On	L1	19.6	14.7	56.0	
4.854000	39.6	9.000	On	L1	19.6	16.4	56.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.526000	38.4	9.000	On	L1	19.7	7.6	46.0	0.526000
1.186000	34.8	9.000	On	L1	19.7	11.2	46.0	1.186000
1.798000	33.1	9.000	On	L1	19.6	12.9	46.0	1.798000
2.166000	32.3	9.000	On	L1	19.6	13.7	46.0	2.166000
3.662000	31.5	9.000	On	L1	19.6	14.5	46.0	3.662000
9.286000	30.1	9.000	On	L1	19.7	19.9	50.0	9.286000

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

Idle:

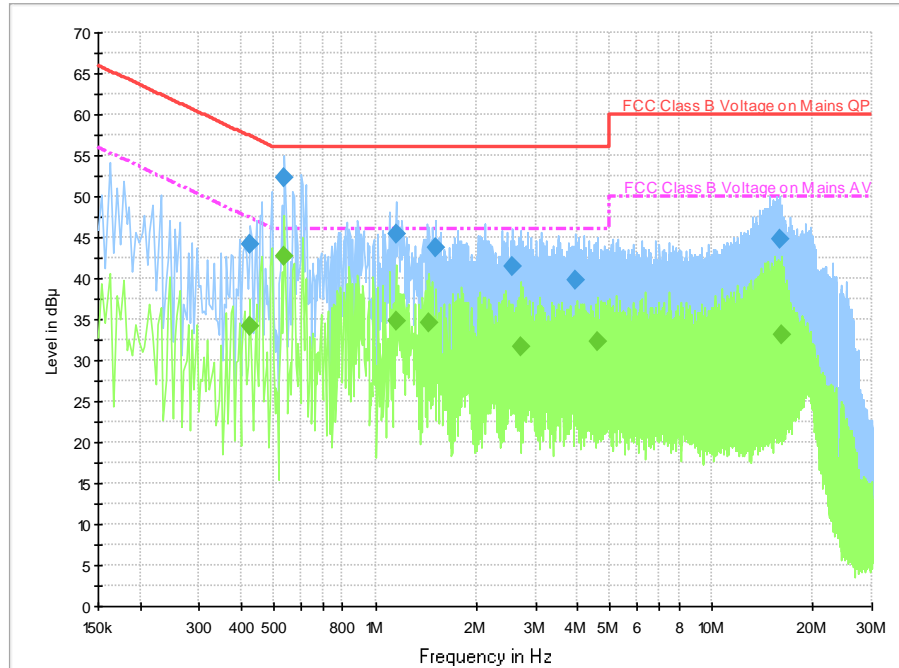


Fig. 22 AC Power line Conducted Emission-Idle

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)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.426000	44.1	9.000	On	L1	19.7	13.2	57.3	
0.538000	52.4	9.000	On	L1	19.7	3.6	56.0	
1.150000	45.4	9.000	On	L1	19.7	10.6	56.0	
1.514000	43.7	9.000	On	L1	19.6	12.3	56.0	
2.554000	41.4	9.000	On	L1	19.6	14.6	56.0	
3.942000	39.9	9.000	On	L1	19.6	16.1	56.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.422000	34.2	9.000	On	L1	19.7	13.2	47.4	
0.538000	42.7	9.000	On	L1	19.7	3.3	46.0	
1.150000	34.8	9.000	On	L1	19.7	11.2	46.0	
1.450000	34.5	9.000	On	L1	19.7	11.5	46.0	
2.718000	31.8	9.000	On	L1	19.6	14.2	46.0	
4.602000	32.2	9.000	On	L1	19.6	13.8	46.0	

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

<p>United States Department of Commerce National Institute of Standards and Technology</p> <div style="display: flex; justify-content: space-around; align-items: center;"><div style="font-size: 2em; font-weight: bold; letter-spacing: 0.5em;">NVLAP[®]</div><div style="text-align: center;"> ilac-MRA</div></div> <hr/> <p style="text-align: center;">Certificate of Accreditation to ISO/IEC 17025:2017</p> <hr/> <p style="text-align: center;">NVLAP LAB CODE: 600118-0</p> <p style="text-align: center;">Telecommunication Technology Labs, CAICT Beijing China</p> <p style="text-align: center;"><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p> <p style="text-align: center;">Electromagnetic Compatibility & Telecommunications</p> <p style="text-align: center;"><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p> <div style="display: flex; justify-content: space-between; align-items: center;"><div style="text-align: center;"><hr/><p>2022-10-01 through 2023-09-30 <i>Effective Dates</i></p></div><div style="text-align: center;"> DEPARTMENT OF COMMERCE UNITED STATES OF AMERICA</div><div style="text-align: center;"> For the National Voluntary Laboratory Accreditation Program</div></div>	
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