



FCC PART 15C TEST REPORT No.I20Z70378-IOT05

for

Samsung Electronics Co., Ltd.

Tablet PC

SM-T225

With

FCC ID: ZCASMT225

Hardware Version: REV1.0

Software Version: T225.001

Issued Date: 2021-02-24

Note:

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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

Testing Location: CTTL(huayuan North Road)

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

1.3. Testing Environment

Normal Temperature: 15-35°C

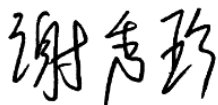
Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2020-12-31

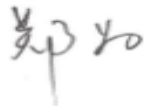
Testing End Date: 2021-02-24

1.5. Signature



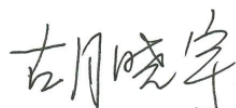
Xie Xiuzhen

(Prepared this test report)



Zheng Wei

(Reviewed this test report)



Hu Xiaoyu

(Approved this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: Samsung Electronics Co., Ltd.
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Contact: Jenni Chun
Email: j1.chun@samsung.com
Telephone: +1-201-937-4203
Fax: /

2.2. Manufacturer Information

Company Name: Samsung Electronics Co., Ltd.
Address: Samsung R5, Maetan dong 129, Samsung ro
Youngtong gu, Suwon city 443 742, Korea
Contact: Sunghoon Cho
Email: ggobi.cho@samsung.com
Telephone: +82-10-2722-4159
Fax: /

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY

EQUIPMENT(AE)

3.1. About EUT

Description	Tablet PC
Model name	SM-T225
FCC ID	ZCASMT225
WLAN Frequency Band	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Voltage	4.0V
Antenna Gain	-1.1dBi

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
UT09a	2070378UT09a	REV1.0	T225.001
UT06a	2070378UT06a	REV1.0	T225.001

*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	Type	SN
AE1	Charger1	/	/
AE2	Charger2	/	/
AE3	Charger3	/	/
AE4	Charger4	/	/
AE5	Charger5	/	/
AE6	Charger6	/	/
AE7	USB cable	/	/
AE8	Headset1	/	/
AE9	Headset2	/	/
AE10	battery	/	/

AE1

Model	EP-TA50JWE
Manufacturer	RFTECH Co., Ltd.
Length of cable	/

AE2

Model	EP-TA50JWE
Manufacturer	HAEM Co., Ltd.
Length of cable	/

AE3

Model	EP-TA200
Manufacturer	DongYang E&P Inc.
Length of cable	/

AE4	
Model	EP-TA200
Manufacturer	HAEM Co., Ltd.
Length of cable	/
AE5	
Model	EP-TA200
Manufacturer	SoluM Co.,Ltd
Length of cable	/
AE6	
Model	EP-TA200
Manufacturer	RFTECH Co., Ltd.
Length of cable	/
AE7	
Model	EP-DT725BWE
Manufacturer	Samsung Electronics Co., Ltd.
Length of cable	/
AE8	
Model	EHS61ASFWE
Manufacturer	ALMUS
Length of cable	/
AE9	
Model	EHS61ASFWE
Manufacturer	Cresyn
Length of cable	/
AE10	
Type	Secondary Li-ion Battery
SN	HQ-3565S
Manufacturer	SCUD (Fujian) 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 Tablet PC 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	2018
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
KDB 558074 D01	Federal Communications Commission Office of Engineering and Technology Laboratory Division GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES	2019

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 - Radiated	15.407 (b)	/	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	4.0V
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	2021-05-06
2	LISN	ENV216	101200	R&S	1 year	2021-05-19
3	Test Receiver	ESC13	100344	R&S	1 year	2021-02-26
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	100235	Rohde & Schwarz	1 year	2021-03-03
2	BiLog Antenna	VULB9163	9163-514	Schwarzbeck	1 year	2021-02-24
3	Antenna	3115	00167250	ETS-Lindgren	1 year	2021-05-14
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	ETS-Lindgren	1 year	2021-08-05

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	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.16
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.44
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.28

8.6. AC Power-line Conducted Emission

Measurement Uncertainty : 3.08dB,k=2

ANNEX A: EUT parameters

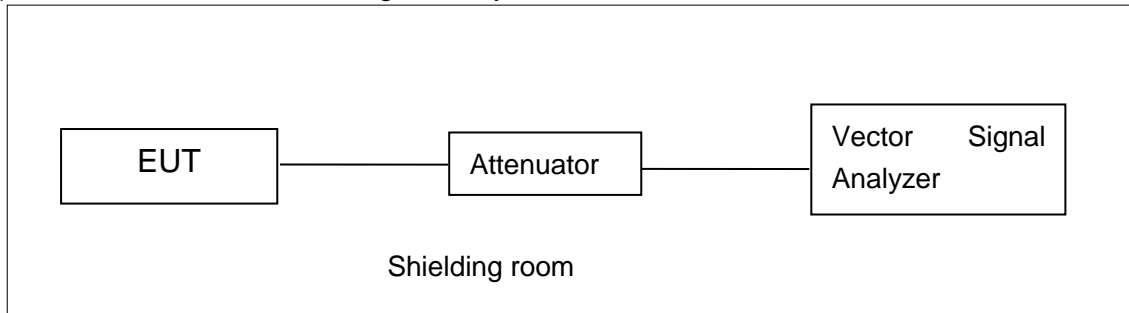
Disclaimer: the antenna gain provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX B: MEASUREMENT RESULTS

B.1. Measurement Method

B.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

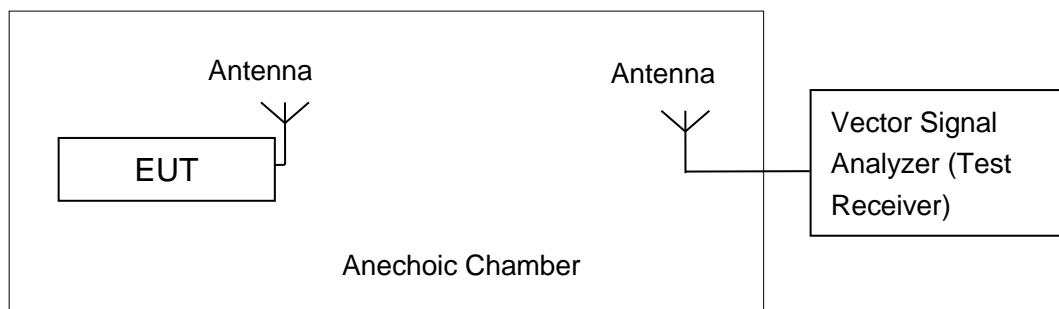


B.1.2. Radiated Emission Measurements

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.

B.2. Maximum Peak Output Power

Measurement Limit and Method:

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

B.2.1 Antenna Gain

Antenna gain is -1.1dBi and the value is supplied by the applicant or manufacturer.

B.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	14.37	14.57	14.23

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

802.11n-HT20 mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11n-HT20	MCS0	13.70	13.88	13.79

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

802.11ac-HT20 mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		5745MHz (Ch149)	5785MHz (Ch157)	5825MHz (Ch165)
802.11ac-HT20	MCS0	13.95	14.53	14.20

The data rate MCS0 is selected as worse 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	14.01	14.22

The data rate MCS0 is selected as worse 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	14.00	14.38

The data rate MCS0 is selected as worse 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	13.86

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

The duty cycle of all mode are 100%.

Conclusion: PASS

B.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	0.84	P
	157	0.74	P
	165	0.31	P
802.11ac HT20	149	0.33	P
	157	0.19	P
	165	0.49	P
802.11ac HT40	151	-2.60	P
	159	-2.42	P
802.11ac HT80	155	-5.77	P

Conclusion: PASS

B.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
		Fig.	Value	
802.11a	149	Fig.1	16.30	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	17.55	P
	165	Fig.6	17.55	P
802.11ac HT40	151	Fig.7	36.32	P
	159	Fig.8	36.08	P
802.11ac HT80	155	Fig.9	76.48	P

Conclusion: PASS

Test graphs as below:

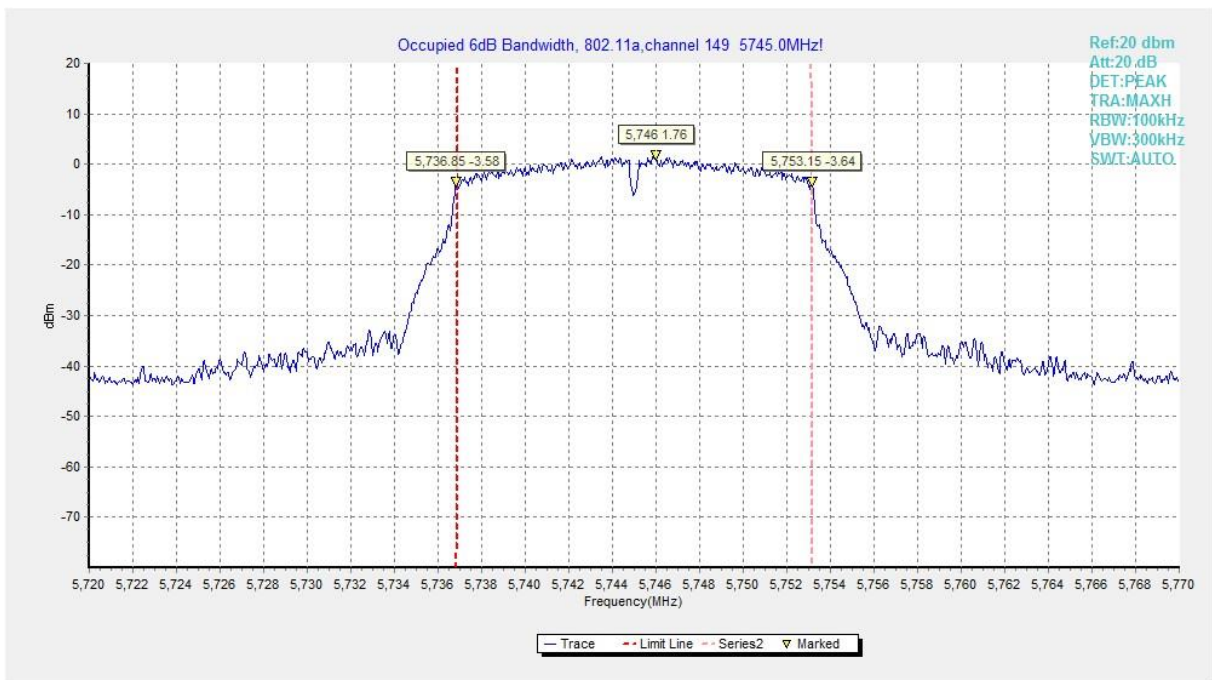


Fig. 1 Occupied 6dB Bandwidth (802.11a, Ch 149)

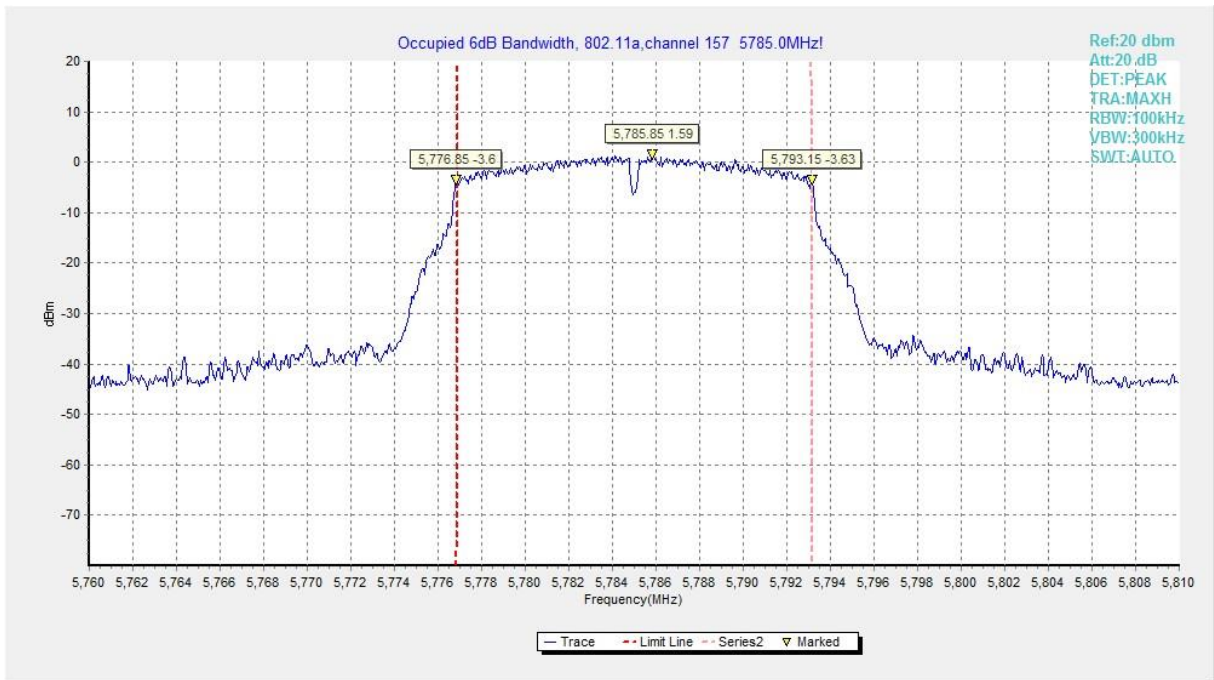


Fig. 2 Occupied 6dB Bandwidth (802.11a, Ch 157)

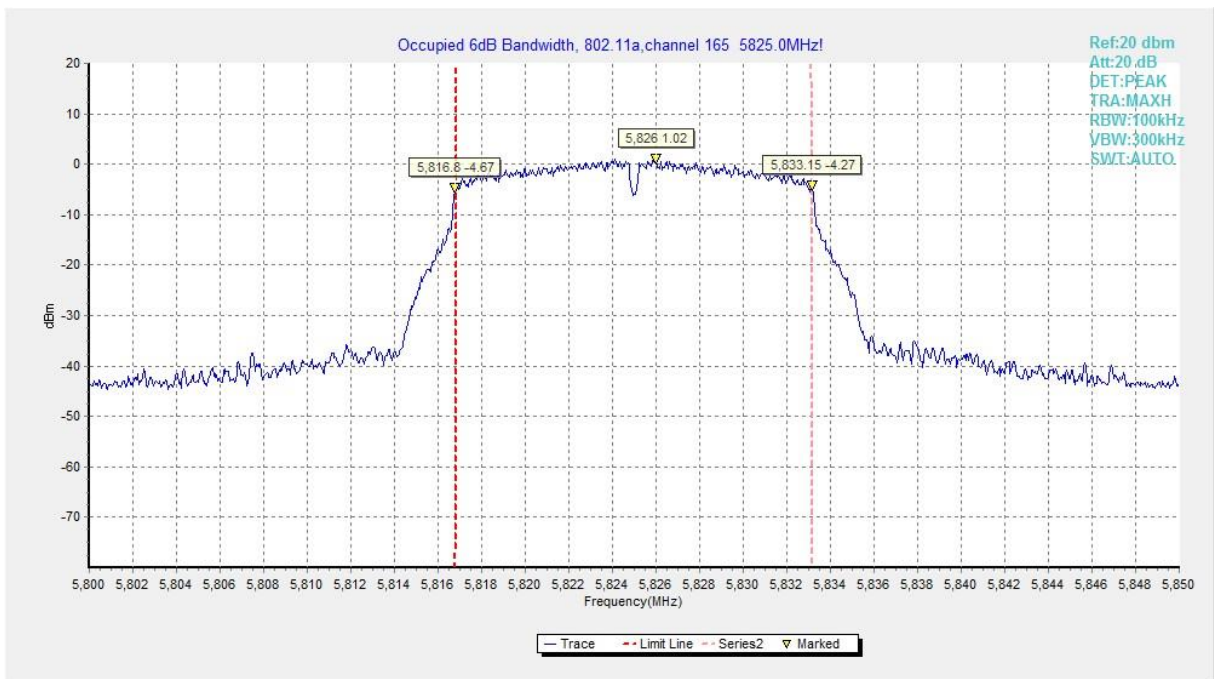


Fig. 3 Occupied 6dB Bandwidth (802.11a, Ch 165)

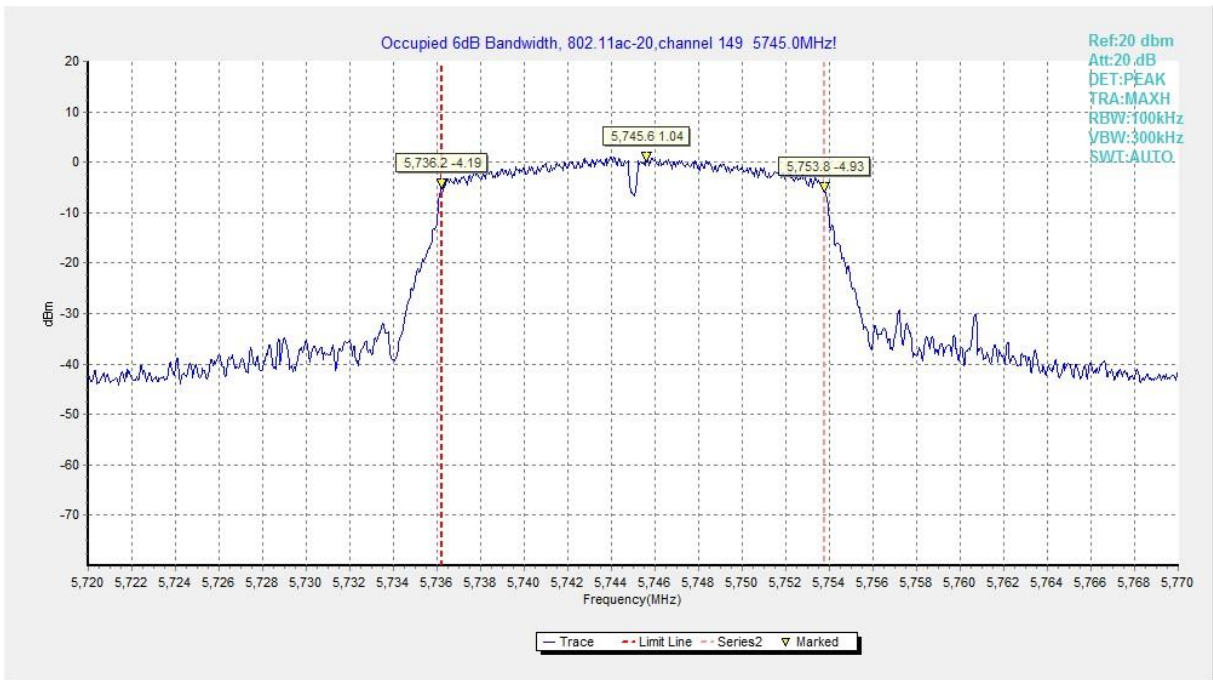


Fig. 4 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 149)

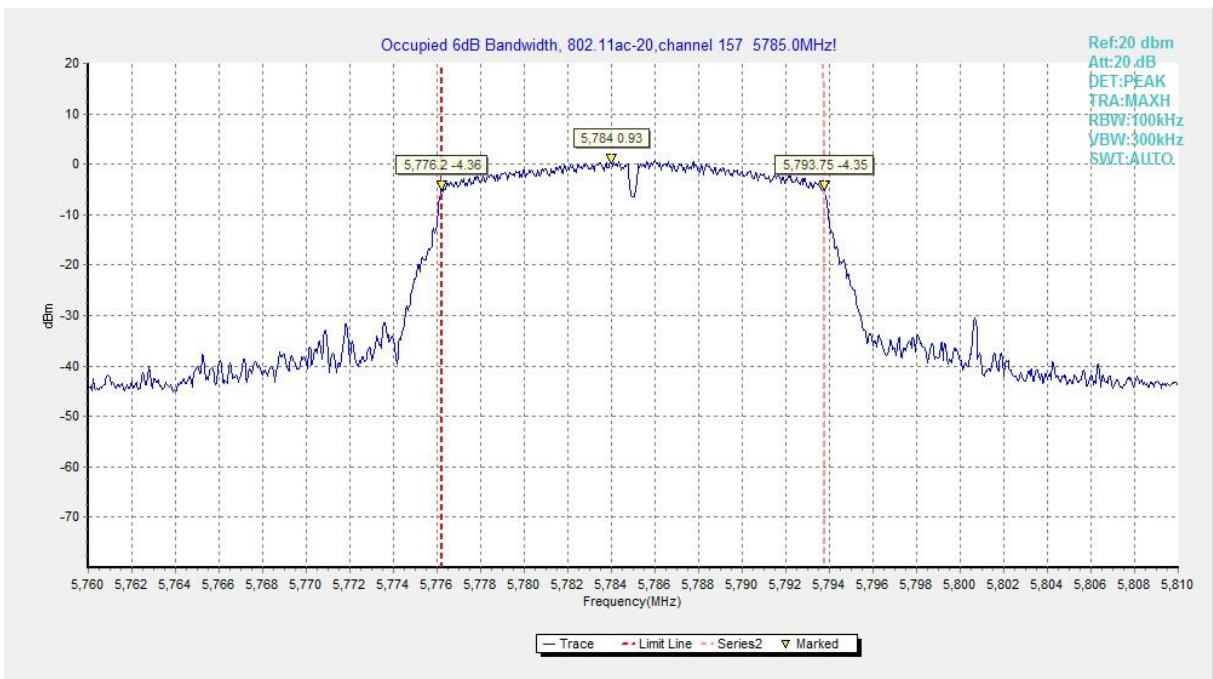


Fig. 5 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 157)

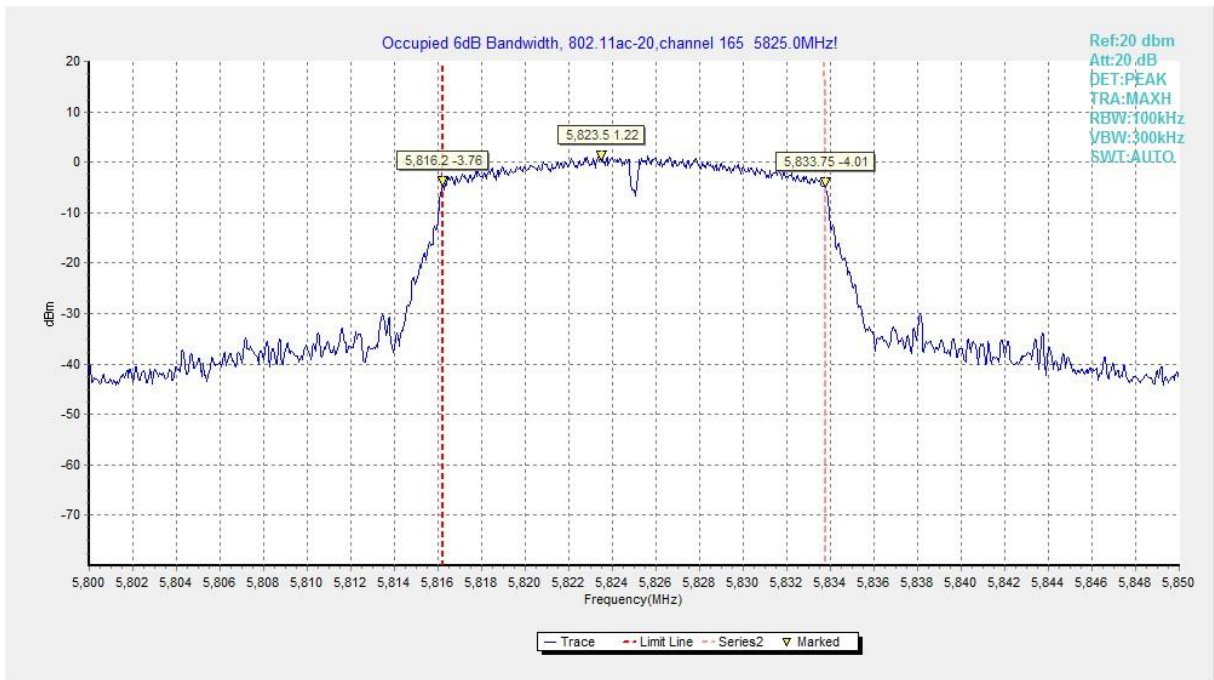


Fig. 6 Occupied 6dB Bandwidth (802.11ac-HT20, Ch 165)

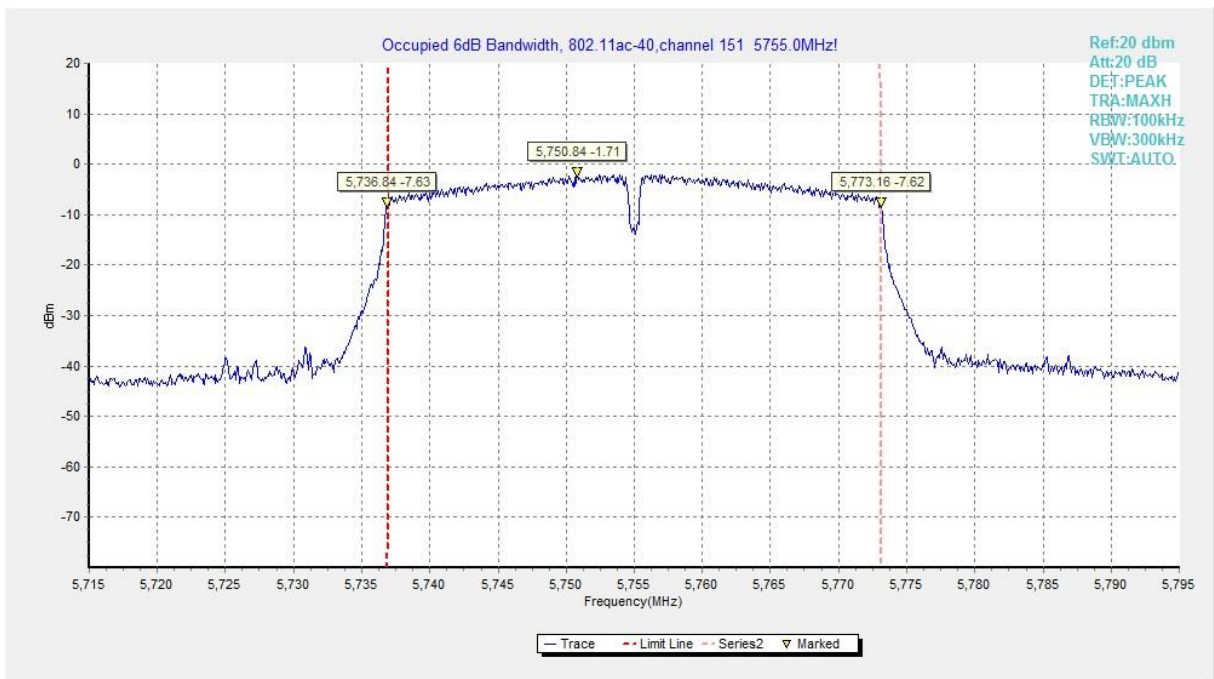


Fig. 7 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 151)

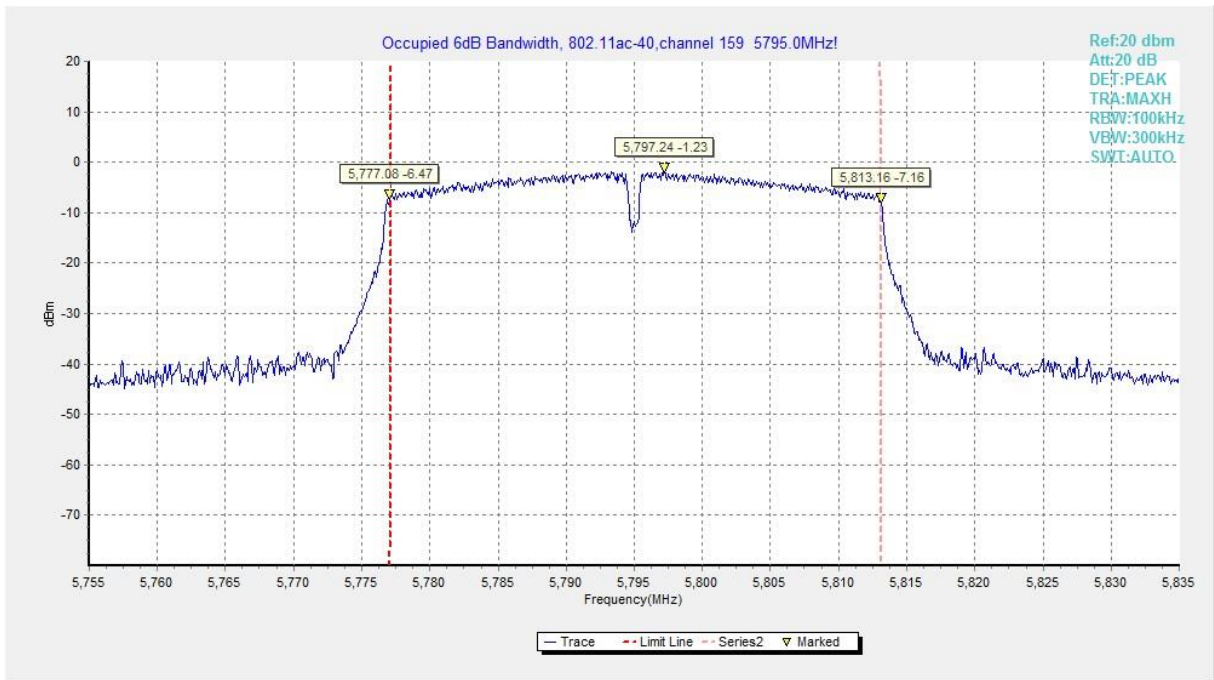


Fig. 8 Occupied 6dB Bandwidth (802.11ac-HT40, Ch 159)

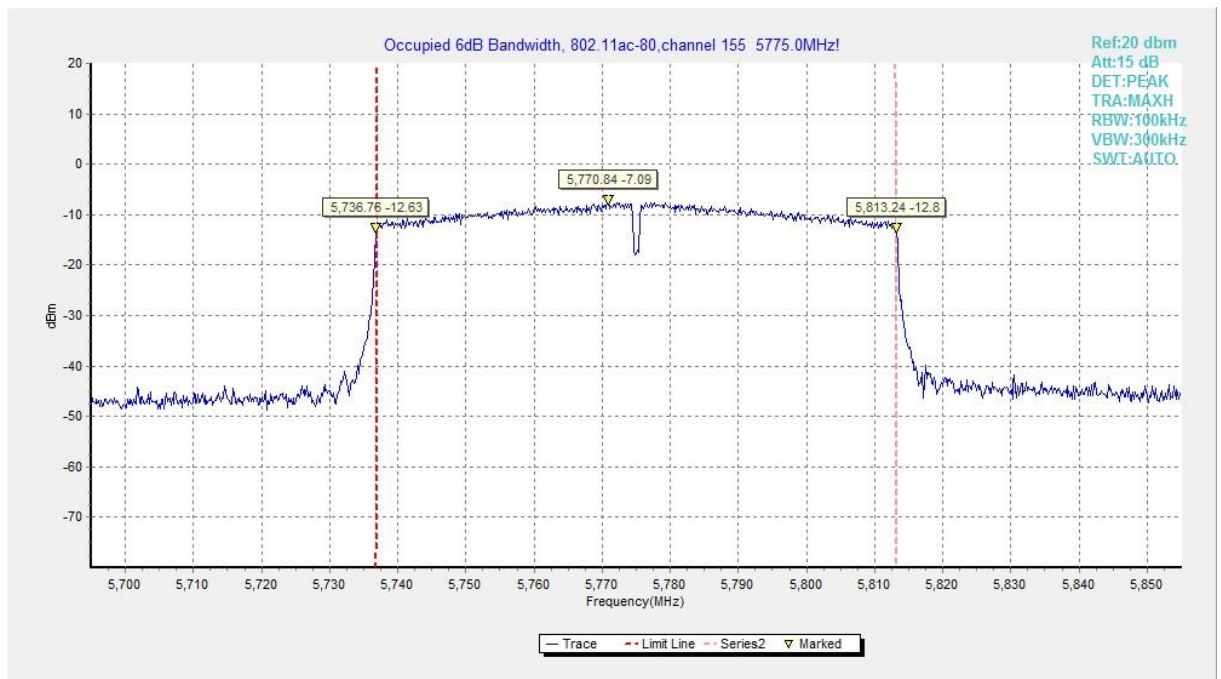


Fig. 9 Occupied 6dB Bandwidth (802.11ac-HT80, Ch 155)

B.5. Transmitter Spurious Emission

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC 47 CFR Part 15.407	5725MHz~5850MHz	< -27

The measurement is made according to ANSI C63.10 .

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)).

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Measurement Uncertainty:

Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 2GHz	0.63
2GHz ≤ f ≤ 3.6GHz	0.82
3.6GHz ≤ f ≤ 8GHz	1.55
8GHz ≤ f ≤ 20GHz	1.86
20GHz ≤ f ≤ 22GHz	1.90
22GHz ≤ f ≤ 26GHz	2.20

B.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

Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 1GHz	5.16
1GHz ≤ f ≤ 18GHz	5.44
18GHz ≤ f ≤ 40GHz	5.28

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
		26.5 GHz~ 40 GHz	---	P
		1 GHz ~ 3 GHz	---	P
	165	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
	165	26.5 GHz~ 40 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---

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
Ch149

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17975.8	42.8	-25.5	46.7	21.6	54	11.2	V
17993.4	42.8	-25.5	46.7	21.6	54	11.2	V
17976.9	42.5	-25.5	46.7	21.3	54	11.5	V
17979.1	42.5	-25.5	46.7	21.3	54	11.5	V
17979.7	42.5	-25.5	46.7	21.3	54	11.5	V
17985.7	42.5	-25.5	46.7	21.3	54	11.5	V

Ch157

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17980.2	42.7	-25.5	46.7	21.5	54	11.3	V
17971.4	42.5	-25.5	46.7	21.3	54	11.5	V
17987.9	42.5	-25.5	46.7	21.3	54	11.5	V
17992.8	42.5	-25.5	46.7	21.3	54	11.5	V
17997.2	42.5	-25.5	46.7	21.3	54	11.5	V
17963.7	42.4	-25.5	46.7	21.2	54	11.6	V

Ch165

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17978	42.6	-25.5	46.7	21.4	54	11.4	V
17979.1	42.5	-25.5	46.7	21.3	54	11.5	V
17976.3	42.4	-25.5	46.7	21.2	54	11.6	V
17990.7	42.4	-25.5	46.7	21.2	54	11.6	V
17992.8	42.4	-25.5	46.7	21.2	54	11.6	V
17946.7	42.3	-25.5	46.7	21.1	54	11.7	V

802.11n-HT20

Ch149

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17976.3	42.7	-25.5	46.7	21.5	54	11.3	V
17985.2	42.7	-25.5	46.7	21.5	54	11.3	V
17983	42.5	-25.5	46.7	21.3	54	11.5	V
17983.5	42.5	-25.5	46.7	21.3	54	11.5	V
17978	42.4	-25.5	46.7	21.2	54	11.6	V
17981.3	42.4	-25.5	46.7	21.2	54	11.6	V

Ch157

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17983.5	42.7	-25.5	46.7	21.5	54	11.3	V
17992.8	42.5	-25.5	46.7	21.3	54	11.5	V
17961.5	42.4	-25.5	46.7	21.2	54	11.6	V
17967	42.4	-25.5	46.7	21.2	54	11.6	V
17974.7	42.4	-25.5	46.7	21.2	54	11.6	V
17981.3	42.4	-25.5	46.7	21.2	54	11.6	V

Ch165

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17969.2	42.7	-25.5	46.7	21.5	54	11.3	V
17968.1	42.6	-25.5	46.7	21.4	54	11.4	V
17996.2	42.5	-25.5	46.7	21.3	54	11.5	V
17997.8	42.5	-25.5	46.7	21.3	54	11.5	V
17964.2	42.4	-25.5	46.7	21.2	54	11.6	V
17974.2	42.4	-25.5	46.7	21.2	54	11.6	V

802.11n-HT40

Ch151

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17974.7	42.6	-25.5	46.7	21.4	54	11.4	V
17970.3	42.5	-25.5	46.7	21.3	54	11.5	V
17972.5	42.4	-25.5	46.7	21.2	54	11.6	V
17979.1	42.4	-25.5	46.7	21.2	54	11.6	V
17975.8	42.3	-25.5	46.7	21.1	54	11.7	V
17986.8	42.3	-25.5	46.7	21.1	54	11.7	V

Ch159

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17955.5	42.5	-25.5	46.7	21.3	54	11.5	V
17980.8	42.5	-25.5	46.7	21.3	54	11.5	V
17968.7	42.4	-25.5	46.7	21.2	54	11.6	V
17976.3	42.4	-25.5	46.7	21.2	54	11.6	V
17968.1	42.3	-25.5	46.7	21.1	54	11.7	V
17981.3	42.3	-25.5	46.7	21.1	54	11.7	V

802.11ac-HT20

Ch149

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17959.8	42.4	-25.5	46.7	21.2	54	11.6	V
17974.2	42.4	-25.5	46.7	21.2	54	11.6	V
17979.7	42.4	-25.5	46.7	21.2	54	11.6	V
17981.8	42.4	-25.5	46.7	21.2	54	11.6	V
17982.4	42.4	-25.5	46.7	21.2	54	11.6	V
5724.7	44	-27.1	34.3	36.8	100	56	H

Ch157

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17956	42.4	-25.5	46.7	21.2	54	11.6	V
17982.4	42.4	-25.5	46.7	21.2	54	11.6	V
17994.5	42.4	-25.5	46.7	21.2	54	11.6	V
17967.5	42.3	-25.5	46.7	21.1	54	11.7	V
17984.6	42.3	-25.5	46.7	21.1	54	11.7	V
17989.5	42.3	-25.5	46.7	21.1	54	11.7	V

Ch165

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17983.5	42.5	-25.5	46.7	21.3	54	11.5	V
17964.2	42.4	-25.5	46.7	21.2	54	11.6	V
17974.2	42.4	-25.5	46.7	21.2	54	11.6	V
17969.8	42.3	-25.5	46.7	21.1	54	11.7	V
17976.3	42.3	-25.5	46.7	21.1	54	11.7	V
17984	42.3	-25.5	46.7	21.1	54	11.7	V

802.11ac-HT40

Ch151

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17962.6	42.4	-25.5	46.7	21.2	54	11.6	V
17989.5	42.4	-25.5	46.7	21.2	54	11.6	V
17968.7	42.3	-25.5	46.7	21.1	54	11.7	V
17978	42.3	-25.5	46.7	21.1	54	11.7	V
17982.4	42.3	-25.5	46.7	21.1	54	11.7	V
17972	42.2	-25.5	46.7	21	54	11.8	V

Ch159

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17991.8	42.7	-25.5	46.7	21.5	54	11.3	V
17989.5	42.6	-25.5	46.7	21.4	54	11.4	V
17961	42.5	-25.5	46.7	21.3	54	11.5	V
17985.2	42.5	-25.5	46.7	21.3	54	11.5	V
17973.6	42.4	-25.5	46.7	21.2	54	11.6	V
17974.2	42.4	-25.5	46.7	21.2	54	11.6	V

802.11ac-HT80

Ch155

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17976.3	42.7	-25.5	46.7	21.5	54	11.3	V
17980.2	42.6	-25.5	46.7	21.4	54	11.4	V
17990.7	42.5	-25.5	46.7	21.3	54	11.5	V
17966.5	42.4	-25.5	46.7	21.2	54	11.6	V
17994.5	42.4	-25.5	46.7	21.2	54	11.6	V
17975.2	42.3	-25.5	46.7	21.1	54	11.7	V

Peak Results:
802.11a

Ch149

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17967.5	54.6	-25.5	46.7	33.4	74	19.4	V
17980.2	54.2	-25.5	46.7	33	74	19.8	V
17901.5	53.4	-25.5	46.7	32.2	74	20.6	V
17979.1	53.4	-25.5	46.7	32.2	74	20.6	V
17911.5	53.3	-25.5	46.7	32.1	74	20.7	V
17488	53.1	-26.9	45.2	34.7	74	20.9	V

Ch157

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17980.2	53.6	-25.5	46.7	32.4	74	20.4	V
17946.1	53	-25.5	46.7	31.8	74	21	V
17973	53	-25.5	46.7	31.8	74	21	V
17920.2	52.9	-25.5	46.7	31.7	74	21.1	V
17992.8	52.9	-25.5	46.7	31.7	74	21.1	V
17993.4	52.9	-25.5	46.7	31.7	74	21.1	V

Ch165

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17978	53.4	-25.5	46.7	32.2	74	20.6	V
17506.1	53.2	-26.9	45.2	34.8	74	20.8	V
17972	53.2	-25.5	46.7	32	74	20.8	V
17907	53.1	-25.5	46.7	31.9	74	20.9	V
17973.6	53	-25.5	46.7	31.8	74	21	V
17893.8	52.9	-25.5	46.7	31.7	74	21.1	V

802.11n-HT20
Ch149

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17970.8	54	-25.5	46.7	32.8	74	20	V
17983.5	53.7	-25.5	46.7	32.5	74	20.3	V
17901	53.6	-25.5	46.7	32.4	74	20.4	V
17973.6	53.6	-25.5	46.7	32.4	74	20.4	V
17949.4	53.5	-25.5	46.7	32.3	74	20.5	V
17956	53.5	-25.5	46.7	32.3	74	20.5	V

Ch157

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17969.8	53.5	-25.5	46.7	32.3	74	20.5	V
17898.8	53.4	-25.5	46.7	32.2	74	20.6	V
17937.8	53.3	-25.5	46.7	32.1	74	20.7	V
17973.6	53.1	-25.5	46.7	31.9	74	20.9	V
17881.8	53	-25.5	46.7	31.8	74	21	V
17980.8	52.9	-25.5	46.7	31.7	74	21.1	V

Ch165

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17962.6	54.1	-25.5	46.7	32.9	74	19.9	V
17940	53.7	-25.5	46.7	32.5	74	20.3	V
17926.8	53.5	-25.5	46.7	32.3	74	20.5	V
17909.8	53.3	-25.5	46.7	32.1	74	20.7	V
17996.7	53.2	-25.5	46.7	32	74	20.8	V
17992.8	53	-25.5	46.7	31.8	74	21	V

802.11n-HT40

Ch151

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17896	53.9	-25.5	46.7	32.7	74	20.1	V
17998.3	53.2	-25.5	46.7	32	74	20.8	V
17976.9	53.1	-25.5	46.7	31.9	74	20.9	V
17952.2	52.8	-25.5	46.7	31.6	74	21.2	V
17973	52.8	-25.5	46.7	31.6	74	21.2	V
17858.7	52.7	-25.5	46.7	31.5	74	21.3	V

Ch159

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17769.5	53.6	-25.5	46.7	32.4	74	20.4	V
17861.4	52.9	-25.5	46.7	31.7	74	21.1	V
17973.6	52.8	-25.5	46.7	31.6	74	21.2	V
17991.8	52.8	-25.5	46.7	31.6	74	21.2	V
17873.5	52.7	-25.5	46.7	31.5	74	21.3	V
17875.2	52.7	-25.5	46.7	31.5	74	21.3	V

802.11ac-HT20

Ch149

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17874.6	53.7	-25.5	46.7	32.5	74	20.3	V
17793.2	53.2	-25.5	46.7	32	74	20.8	V
17970.3	53.2	-25.5	46.7	32	74	20.8	V
17979.1	53.2	-25.5	46.7	32	74	20.8	V
17984.6	53.2	-25.5	46.7	32	74	20.8	V
5725	69.1	-27.1	34.3	61.9	116	46.9	H

Ch157

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17988.5	53.8	-25.5	46.7	32.6	74	20.2	V
17983	53.6	-25.5	46.7	32.4	74	20.4	V
17990.1	53.3	-25.5	46.7	32.1	74	20.7	V
17950.5	53	-25.5	46.7	31.8	74	21	V
17975.8	52.8	-25.5	46.7	31.6	74	21.2	V
17976.3	52.8	-25.5	46.7	31.6	74	21.2	V

Ch165

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17915.3	53.7	-25.5	46.7	32.5	74	20.3	V
17974.2	53.4	-25.5	46.7	32.2	74	20.6	V
17884.5	53.2	-25.5	46.7	32	74	20.8	V
17940	53.1	-25.5	46.7	31.9	74	20.9	V
17945	53.1	-25.5	46.7	31.9	74	20.9	V
17928	53	-25.5	46.7	31.8	74	21	V

802.11ac-HT40

Ch151

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17991.2	53.6	-25.5	46.7	32.4	74	20.4	V
17976.9	53.5	-25.5	46.7	32.3	74	20.5	V
17992.8	53.5	-25.5	46.7	32.3	74	20.5	V
17954.3	53.3	-25.5	46.7	32.1	74	20.7	V
17993.4	53.3	-25.5	46.7	32.1	74	20.7	V
17985.7	52.9	-25.5	46.7	31.7	74	21.1	V

Ch159

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17877.3	53.9	-25.5	46.7	32.7	74	20.1	V
17868	53.2	-25.5	46.7	32	74	20.8	V
17962	53	-25.5	46.7	31.8	74	21	V
17991.8	52.8	-25.5	46.7	31.6	74	21.2	V
17880.1	52.7	-25.5	46.7	31.5	74	21.3	V
17506.1	52.6	-26.9	45.2	34.2	74	21.4	V

802.11ac-HT80

Ch155

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17974.2	53.5	-25.5	46.7	32.3	74	20.5	V
17978	53.1	-25.5	46.7	31.9	74	20.9	V
17909.2	53	-25.5	46.7	31.8	74	21	V
17986.8	53	-25.5	46.7	31.8	74	21	V
17986.2	52.9	-25.5	46.7	31.7	74	21.1	V
17973	52.8	-25.5	46.7	31.6	74	21.2	V

B.6. Band Edges Compliance

B.6.1 Band Edges - Radiated

Measurement Limit:

Standard	Limit (dBm/MHz)	
	FCC 47 CFR Part 15.407	at the band edge
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 Uncertainty:

Measurement Uncertainty	0.75dB
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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:

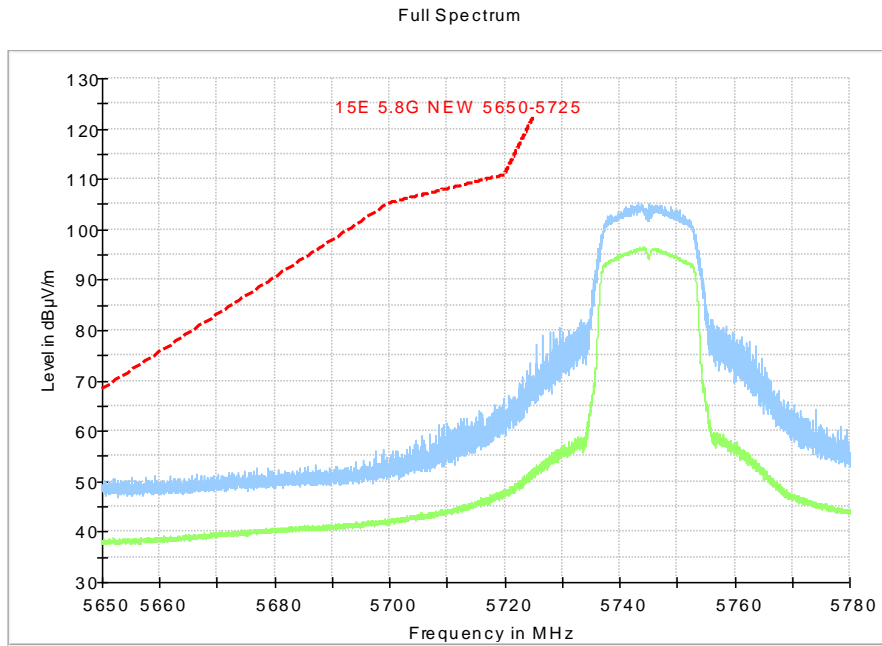


Fig. 10 Band Edges (802.11a, 5745MHz)

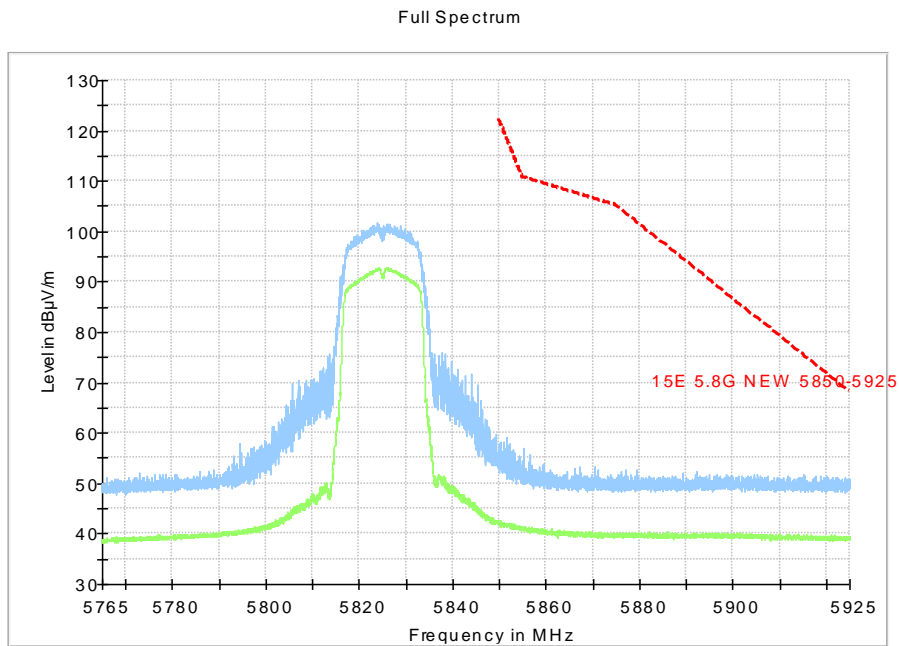


Fig. 11 Band Edges (802.11a, 5825MHz)

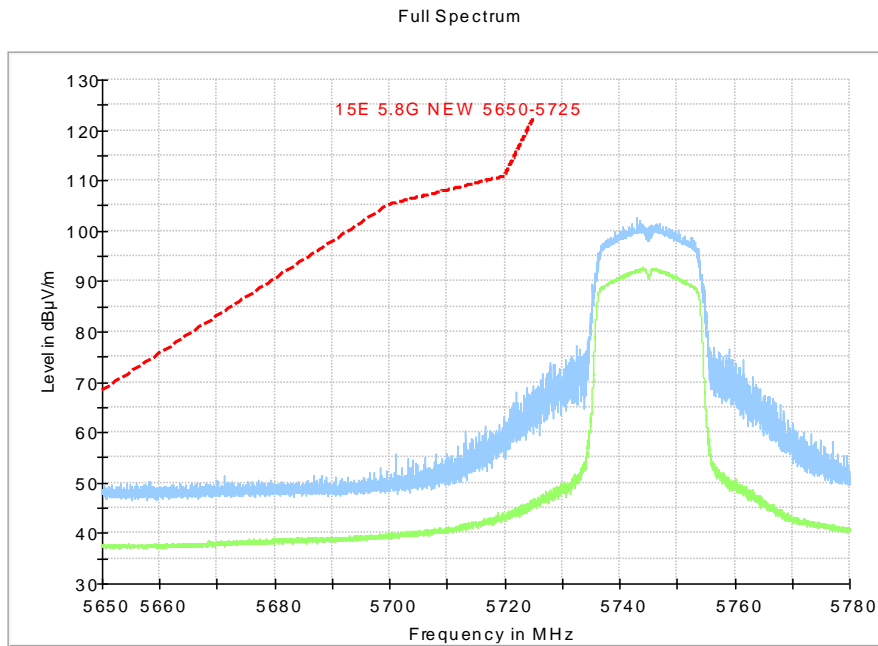


Fig. 12 Band Edges (802.11n-HT20, 5745MHz)

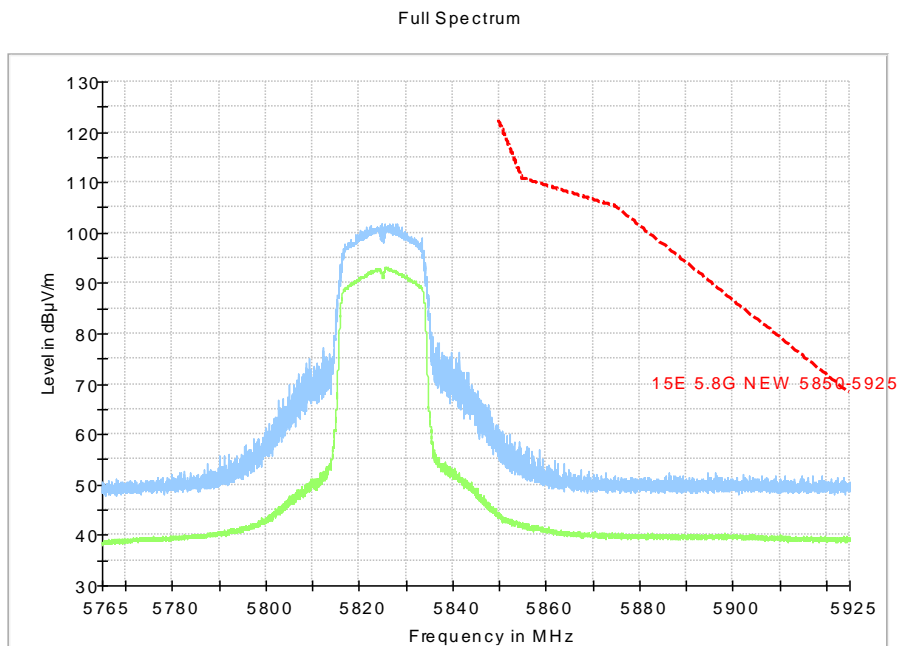


Fig. 13 Band Edges (802.11n-HT20, 5825MHz)

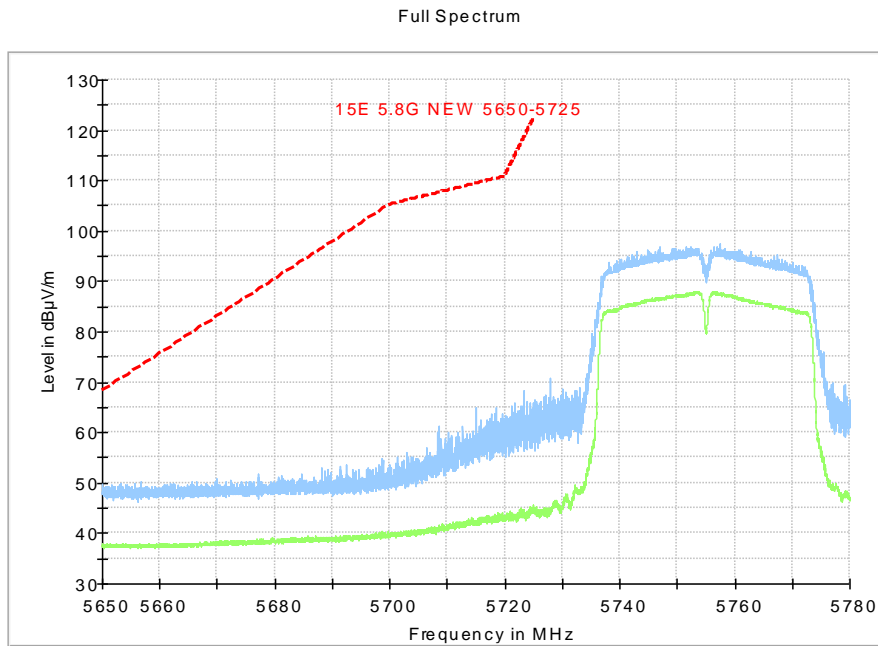


Fig. 14 Band Edges (802.11n-HT40, 5755MHz)

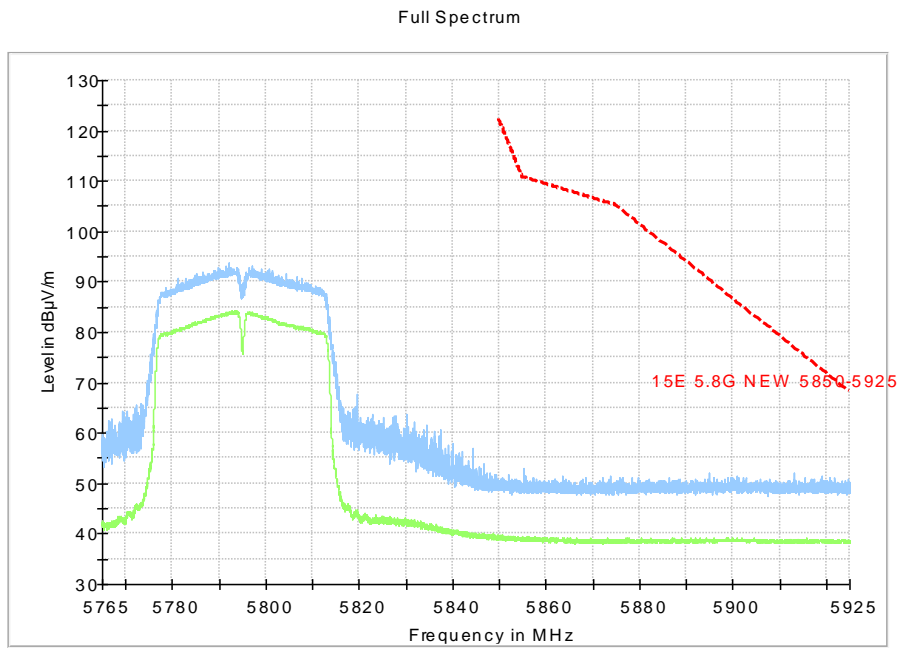


Fig. 15 Band Edges (802.11n-HT40, 5795MHz)

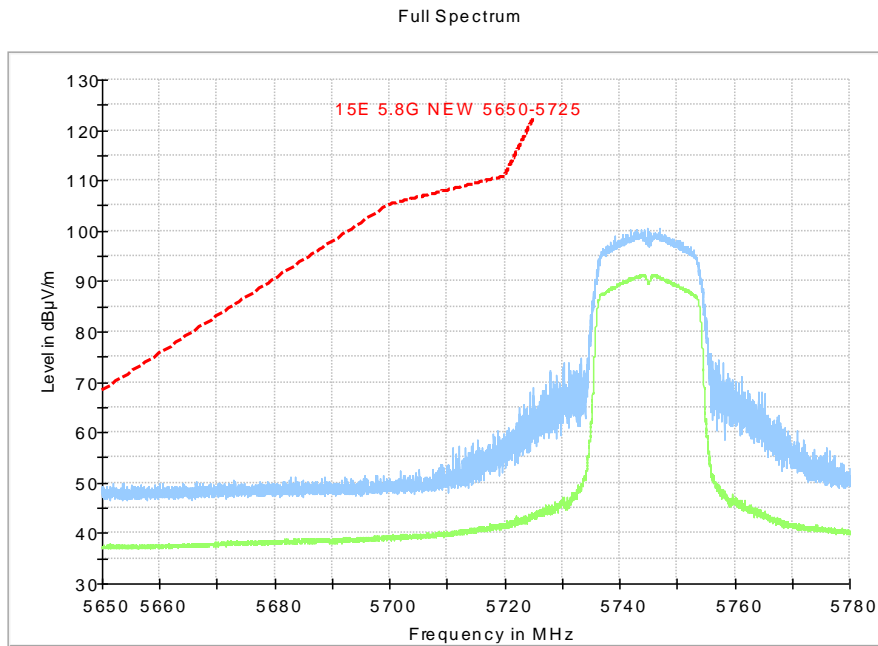


Fig. 16 Band Edges (802.11ac-HT20, 5745MHz)

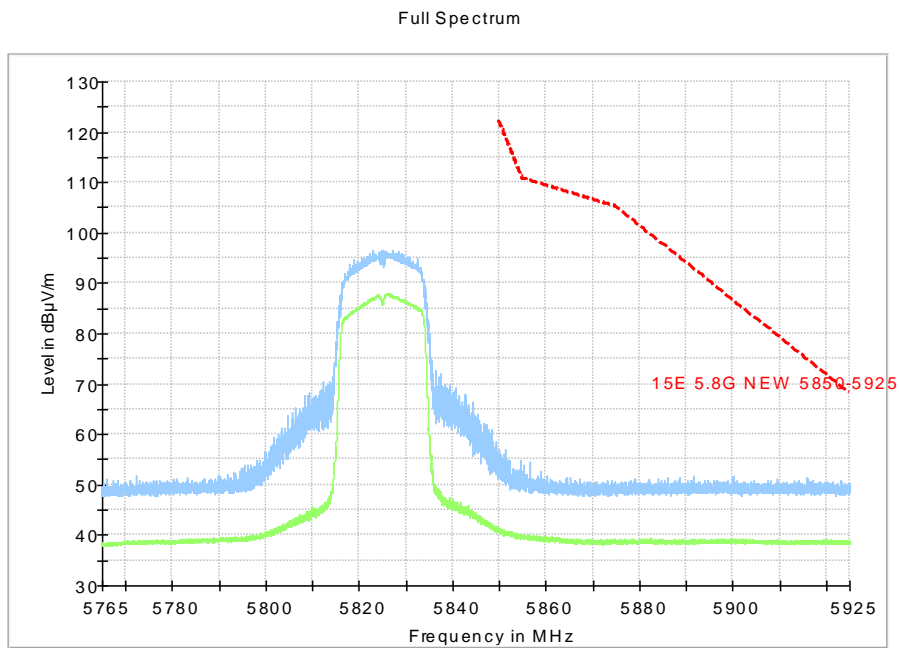


Fig. 17 Band Edges (802.11ac-HT20, 5825MHz)

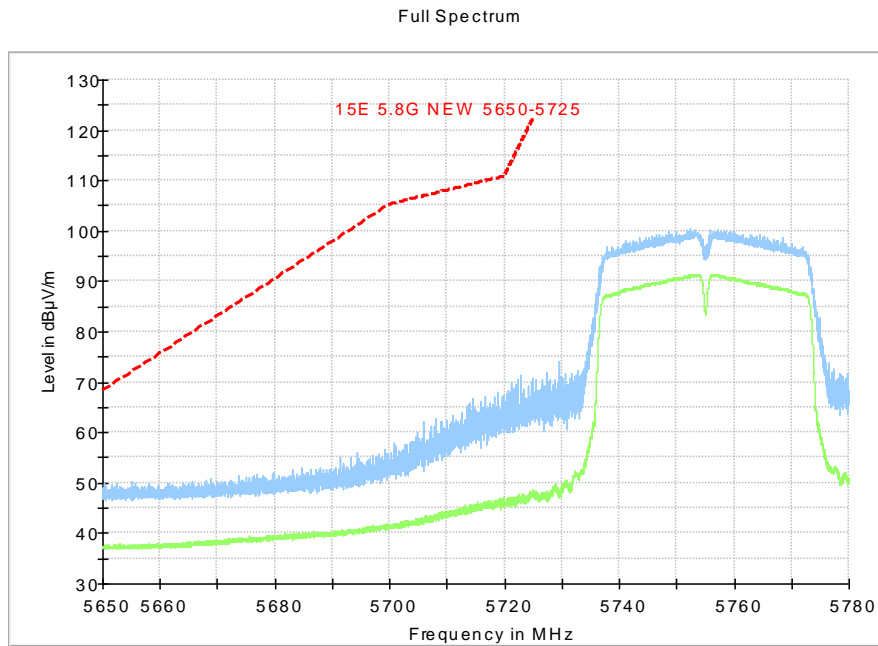


Fig. 18 Band Edges (802.11ac-HT40, 5755MHz)

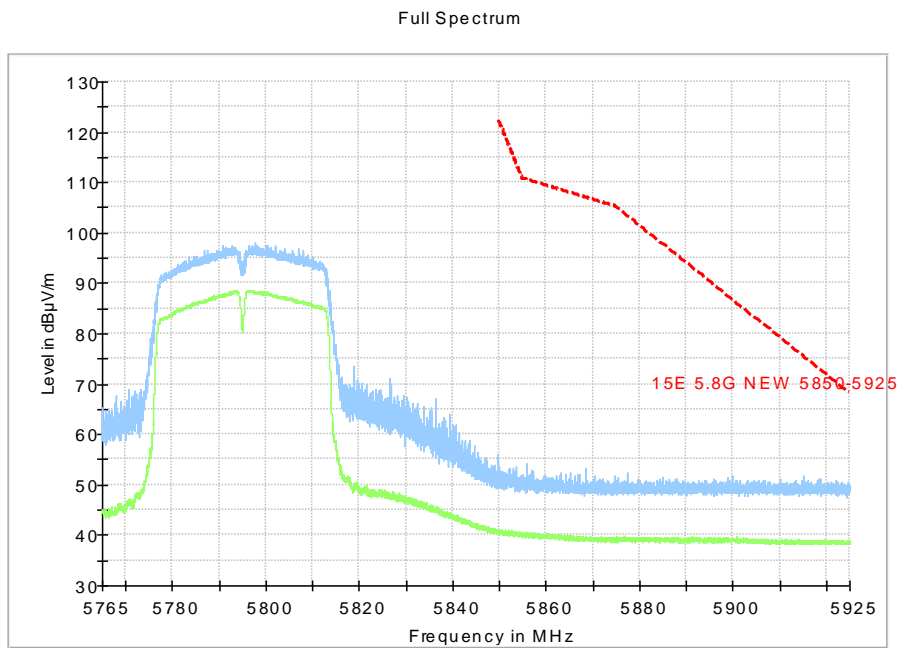


Fig. 19 Band Edges (802.11ac-HT40, 5795MHz)

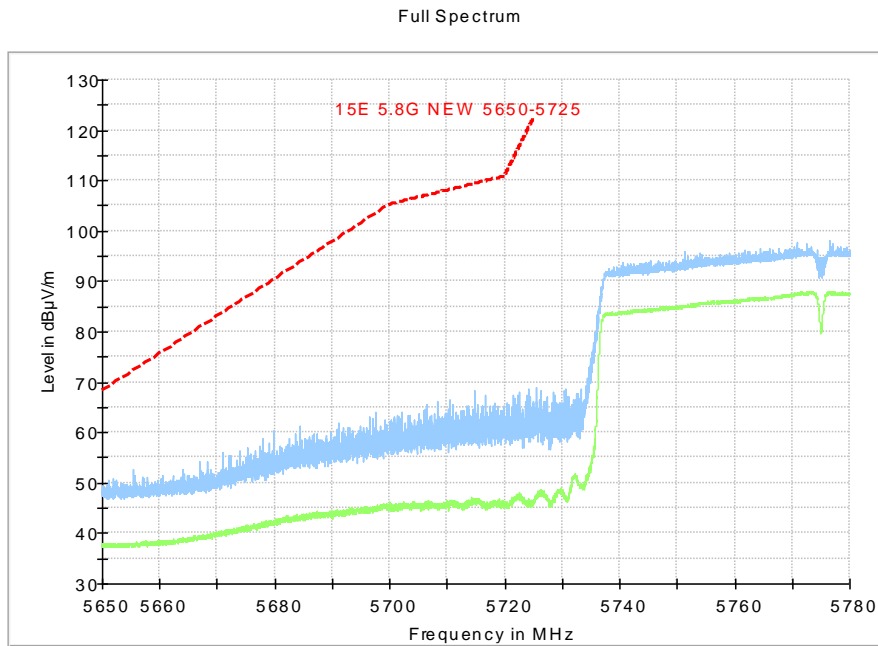


Fig. 20 Band Edges (802.11ac-HT80, 5775MHz)

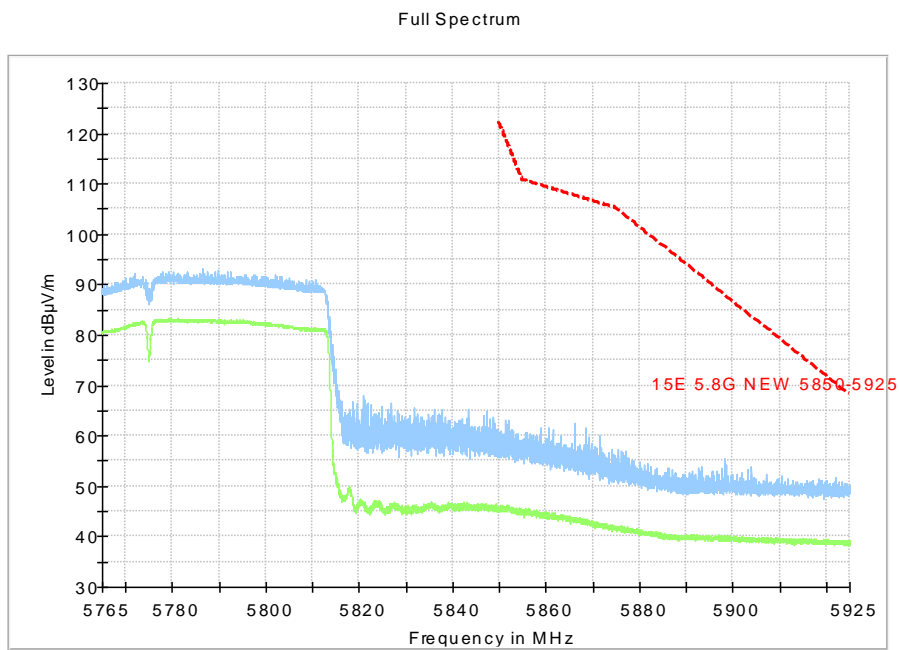


Fig. 21 Band Edges (802.11ac-HT80, 5775MHz)

B.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.22	Fig.23	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.22	Fig.23	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:

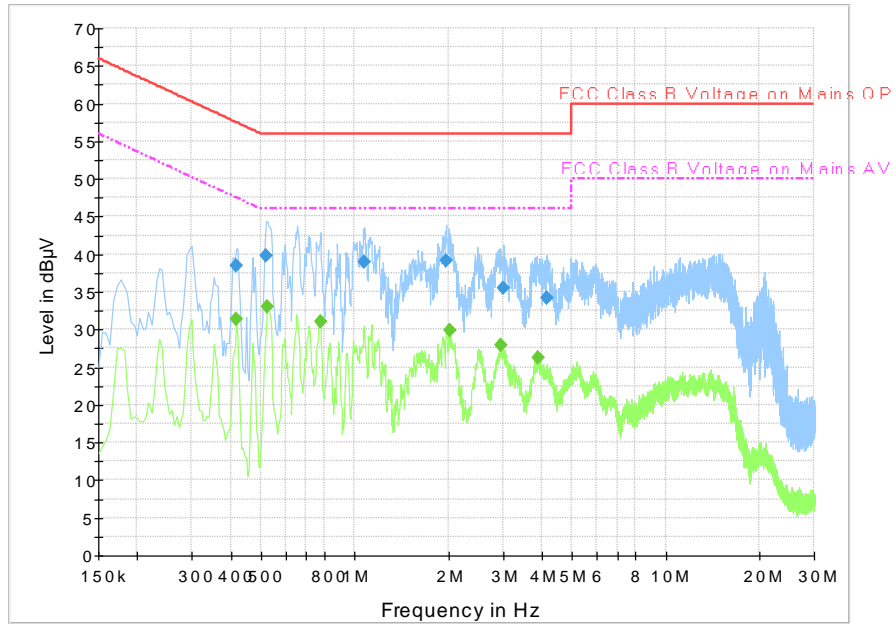


Fig. 22 AC Power line Conducted Emission-802.11a

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.415500	38.5	1000.0	9.000	L1	19.6	19.1	57.5
0.519000	39.9	1000.0	9.000	L1	19.6	16.1	56.0
1.077000	39.0	1000.0	9.000	L1	19.6	17.0	56.0
1.963500	39.1	1000.0	9.000	L1	19.5	16.9	56.0
3.021000	35.5	1000.0	9.000	L1	19.6	20.5	56.0
4.137000	34.2	1000.0	9.000	L1	19.7	21.8	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.415500	31.4	1000.0	9.000	L1	19.6	16.1	47.5
0.523500	33.0	1000.0	9.000	L1	19.6	13.0	46.0
0.775500	31.0	1000.0	9.000	L1	19.6	15.0	46.0
2.031000	29.9	1000.0	9.000	L1	19.5	16.1	46.0
2.949000	27.8	1000.0	9.000	L1	19.6	18.2	46.0
3.880500	26.2	1000.0	9.000	L1	19.7	19.8	46.0

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

Idle:

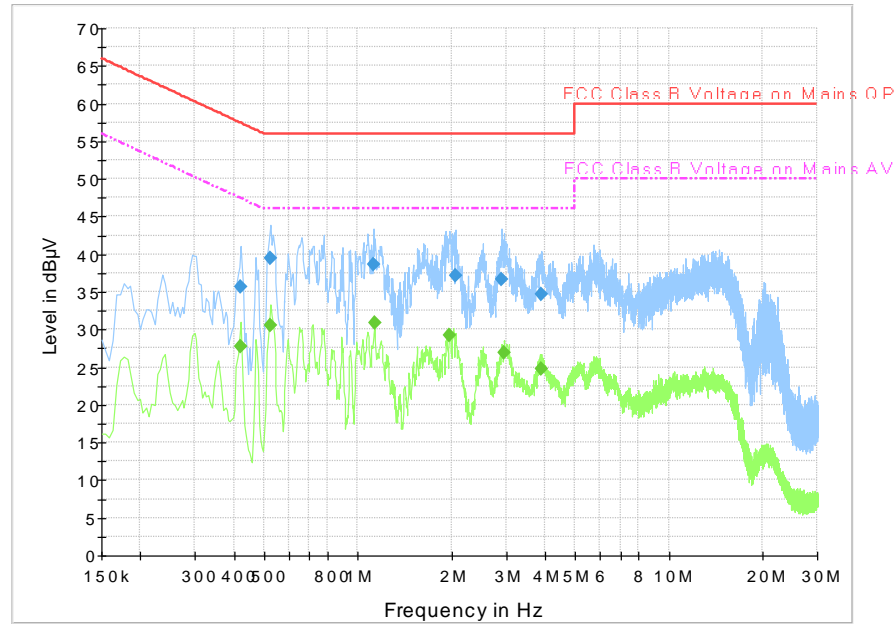


Fig. 23 AC Power line Conducted Emission-Idle

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

Final Result 1



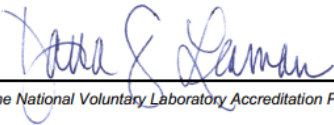
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.420000	35.7	1000.0	9.000	L1	19.6	21.7	57.4
0.523500	39.5	1000.0	9.000	L1	19.6	16.5	56.0
1.122000	38.6	1000.0	9.000	L1	19.6	17.4	56.0
2.062500	37.2	1000.0	9.000	L1	19.5	18.8	56.0
2.913000	36.6	1000.0	9.000	L1	19.6	19.4	56.0
3.876000	34.6	1000.0	9.000	L1	19.7	21.4	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.420000	27.7	1000.0	9.000	L1	19.6	19.7	47.4
0.523500	30.6	1000.0	9.000	L1	19.6	15.4	46.0
1.131000	30.9	1000.0	9.000	L1	19.6	15.1	46.0
1.977000	29.3	1000.0	9.000	L1	19.5	16.7	46.0
2.953500	27.0	1000.0	9.000	L1	19.6	19.0	46.0
3.894000	24.7	1000.0	9.000	L1	19.7	21.3	46.0

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

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="font-size: 1.2em; font-weight: bold;">Certificate of Accreditation to ISO/IEC 17025:2017</p> <hr/> <p>NVLAP LAB CODE: 600118-0</p> <p style="text-align: center; font-weight: bold;">Telecommunication Technology Labs, CAICT</p> <p style="text-align: center;">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; font-weight: bold;">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: flex-end; margin-top: 20px;"><div style="text-align: center;"><hr/><p>2020-09-29 through 2021-09-30 <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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