FCC PART 15C
TEST REPORT
(RADIATED PART)
No. I15Z40514-SRD16

for

Sony Mobile Communications Inc.

GSM/WCDMA/LTE Device

With

FCC ID: PY7-PM0796

Hardware Version: A

Software Version: 1292-7201,s_atp_1_41_5_2

Issued Date: 2015-05-19

TESTING
CNAS L0570

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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1. TEST LATORATORY

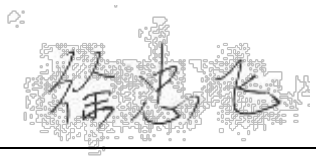
1.1. Testing Location

Company Name:	CTTL Beijing, Telecommunication Metrology Center of MIIT
Address:	No. 52, Huayuan Bei Road, Haidian District, Beijing, P. R. China
Postal Code:	100191
Telephone:	+86-10-62304633-2561
Fax:	+86-10-62304633-2504

1.2. Project data

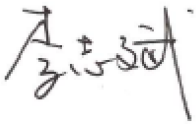
Testing Start Date:	2015-03-20
Testing End Date:	2015-05-04

1.3. Signature



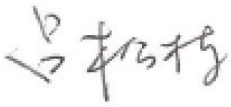
Xu Zhongfei

(Prepared this test report)



Li Zhibin

(Reviewed this test report)



Lv Songdong

(Approvedthis test report)

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2. CLIENT INFORMATION

2.1. Applicant Information

Company Name:	Sony Mobile Communications (China) Co. Ltd
Address /Post:	Sony Mobile R&D Center, No. 16, Guangshun South Street, Chaoyang District
City:	Beijing
Postal Code:	100102
Country:	China
Contact Person:	Ma, Gang
Telephone:	+86-10-58656312
Fax:	+86-10-58659049

2.2. Manufacturer Information

Company Name:	Sony Mobile Communications Inc.
Address /Post:	1-8-15 Konan, Minato-ku, Tokyo, 108-0075, Japan
City:	Tokyo
Postal Code:	108-0075
Country:	Japan

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3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT(AE)

3.1. About EUT

Description	GSM/WCDMA/LTE Device
FCC ID	PY7-PM0796
WLAN Frequency Range	ISM Band: 5725MHz~5850MHz
Type of modulation	OFDM
Extreme vol. Limits	3.6VDC to 4.2VDC (nominal: 3.8VDC)

Note: Photographs of EUT are shown in ANNEX C of this test report. Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT of People's Republic of China.

3.2. Internal Identification of EUT used during the test

EUT ID*	S/N	IMEI	HW Version	SW Version
EUT1	CB5A24YCVX	004402148060480	A	1292-7201,s_atp_1_41_5_2

*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	Travel Charger	/	/
AE3	USB Cable	1447A7PC000350C	/

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

3.4. General Description

The Equipment Under Test (EUT) is a model of GSM/WCDMA/LTE Device with integrated antenna and embedded battery.

It has MP3, camera, USB memory, FM radio, GPS receiver, NFC, Bluetooth (EDR, BLE), ANT+, WLAN (802.11 a/ac/b/g/n) and Wi-Fi hotspot functions.

It consists of normal options: USB cable and travel charger.

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

Samples undergoing test were selected by the client.

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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: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	2014
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	2009
KDB558074	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247	2013
KDB644545	Guidance for IEEE 802.11ac and Pre-ac Device Emissions Testing	2013

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

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6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Transmitter Spurious Emission - Radiated	15.247, 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℃
Voltage	3.8V
Humidity	44%

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7. TEST EQUIPMENTS UTILIZED

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Test Receiver	ESU26	100376	Rohde & Schwarz	2014-11-6	2015-11-5
2	BiLog Antenna	VULB9163	9163-514	Schwarzbeck	2012-11-11	2015-11-10
3	Dual-Ridge Waveguide Horn Antenna	3117	00119024	ETS-Lindgren	2014-4-20	2017-4-19
4	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2014-7-1	2017-06-30
5	Loop antenna	HFH2-Z2	829324/007	Rohde & Schwarz	2012-12-21	2015-12-20
6	Semi-anechoic chamber	/	CT000332-1074	Frankonia German	/	/

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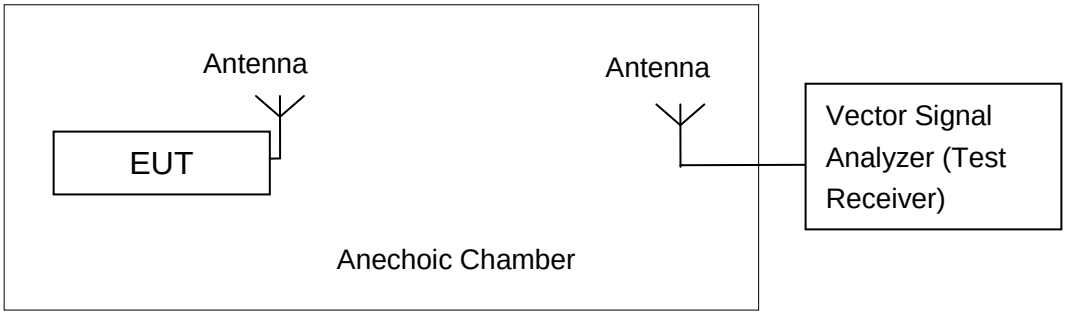
ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

A.1.1. 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 = 3MHz;



The measurement is made according to ANSI C63.10 and KDB558074
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.

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A.2. Transmitter Spurious Emission- Radiated

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

Modulation type and data rate:

802.11a	802.11n-HT20	802.11n-HT40	802.11ac-HT80
6Mbps	MCS0	MCS0	MCS0

Measurement Uncertainty:

Frequency Range	Uncertainty(dB)
f ≤ 1GHz	3.9
f>1GHz	4.3

Measurement Results:

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802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	149	1 GHz ~ 6 GHz	Fig.1	P
		6 GHz ~ 18 GHz	Fig.2	P
	157	30 MHz ~1 GHz	Fig.3	P
		1 GHz ~ 6 GHz	Fig.4	P
		6 GHz ~ 18 GHz	Fig.5	P
		18 GHz ~ 26.5 GHz	Fig.6	P
		26.5 GHz~ 40 GHz	Fig.7	P
	165	1 GHz ~ 6 GHz	Fig.8	P
		6 GHz ~ 18 GHz	Fig.9	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	149	1 GHz ~ 6 GHz	Fig.10	P
		6 GHz ~ 18 GHz	Fig.11	P
	157	30 MHz ~1 GHz	Fig.12	P
		1 GHz ~ 6 GHz	Fig.13	P
		6 GHz ~ 18 GHz	Fig.14	P
		18 GHz ~ 26.5 GHz	Fig.15	P
		26.5 GHz~ 40 GHz	Fig.16	P
	165	1 GHz ~ 6 GHz	Fig.17	P
		6 GHz ~ 18 GHz	Fig.18	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	151	30 MHz ~1 GHz	Fig.19	P
		1 GHz ~ 6 GHz	Fig.20	P
		6 GHz ~ 18 GHz	Fig.21	P
		18 GHz ~ 26.5 GHz	Fig.22	P
		26.5 GHz~ 40 GHz	Fig.23	P
	159	30 MHz ~1 GHz	Fig.24	P
		1 GHz ~ 6 GHz	Fig.25	P
		6 GHz ~ 18 GHz	Fig.26	P

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT80)	155	1 GHz ~ 6 GHz	Fig.27	P
		6 GHz ~ 18 GHz	Fig.28	P
		18 GHz ~ 26.5 GHz	Fig.29	P
		26.5 GHz~ 40 GHz	Fig.30	P

Conclusion: PASS

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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.

802.11a

Ch149

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5724.640	44.2	-33.8	35.1	42.900	H
17871.563	46.2	-18.5	45.6	19.100	H
17883.750	46.2	-18.5	45.6	19.100	V
17888.438	46.1	-18.5	45.6	19.000	H
17886.563	46.1	-18.5	45.6	19.000	H
17887.969	46.1	-18.5	45.6	19.000	H

Ch157

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17902.031	46.2	-18.5	45.6	19.100	H
17884.688	46.0	-18.5	45.6	18.900	V
17871.563	46.0	-18.5	45.6	18.900	V
17889.844	46.0	-18.5	45.6	18.900	V
17877.188	46.0	-18.5	45.6	18.900	H
17898.281	45.9	-18.5	45.6	18.800	V

Ch165

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5852.832	43.8	-33.8	35.1	42.500	H
17880.938	46.1	-18.5	45.6	19.000	H
17891.250	46.1	-18.5	45.6	19.000	V
17881.875	46.1	-18.5	45.6	19.000	H
17876.250	46.1	-18.5	45.6	19.000	H
17885.156	46.1	-18.5	45.6	19.000	H

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802.11n-HT20

Ch149

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5724.880	44.1	-33.8	35.1	42.800	V
17884.219	46.0	-18.5	45.6	18.900	V
17869.219	46.0	-18.5	45.6	18.900	V
17883.750	46.0	-18.5	45.6	18.900	V
17888.906	46.0	-18.5	45.6	18.900	H
17881.406	46.0	-18.5	45.6	18.900	H

Ch157

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17881.875	46.3	-18.5	45.6	19.200	H
17883.750	46.1	-18.5	45.6	19.000	H
17883.281	46.1	-18.5	45.6	19.000	V
17898.750	46.0	-18.5	45.6	18.900	V
17878.125	46.0	-18.5	45.6	18.900	H
17880.000	46.0	-18.5	45.6	18.900	H

Ch165

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5850.000	43.5	-33.8	35.1	42.200	H
17890.781	46.2	-18.5	45.6	19.100	H
17880.938	46.2	-18.5	45.6	19.100	V
17883.750	46.1	-18.5	45.6	19.000	H
17901.094	46.1	-18.5	45.6	19.000	H
17880.469	46.1	-18.5	45.6	19.000	H

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802.11n-HT40

Ch151

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5719.984	44.0	-33.8	35.1	42.700	H
17874.000	46.4	-18.5	45.6	19.300	H
17882.625	46.4	-18.5	45.6	19.300	V
17879.625	46.4	-18.5	45.6	19.300	H
17903.250	46.4	-18.5	45.6	19.300	H
17881.875	46.3	-18.5	45.6	19.200	H

Ch159

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
5850.808	43.6	-33.8	35.1	42.300	H
17901.375	46.4	-18.5	45.6	19.300	H
17891.625	46.2	-18.5	45.6	19.100	V
17889.375	46.1	-18.5	45.6	19.000	H
17878.875	46.1	-18.5	45.6	19.000	H
17877.750	46.1	-18.5	45.6	19.000	H

802.11ac-HT80

Ch155

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
17926.125	57.6	-17.7	45.6	29.700	V
17881.875	57.4	-18.5	45.6	30.300	H
17944.500	57.4	-17.7	45.6	29.500	V
17913.375	57.4	-18.5	45.6	30.300	H
17905.500	57.4	-18.5	45.6	30.300	H
17897.250	57.2	-18.5	45.6	30.100	H

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Test graphs as below:

RE_WLAN_1G-6GHz

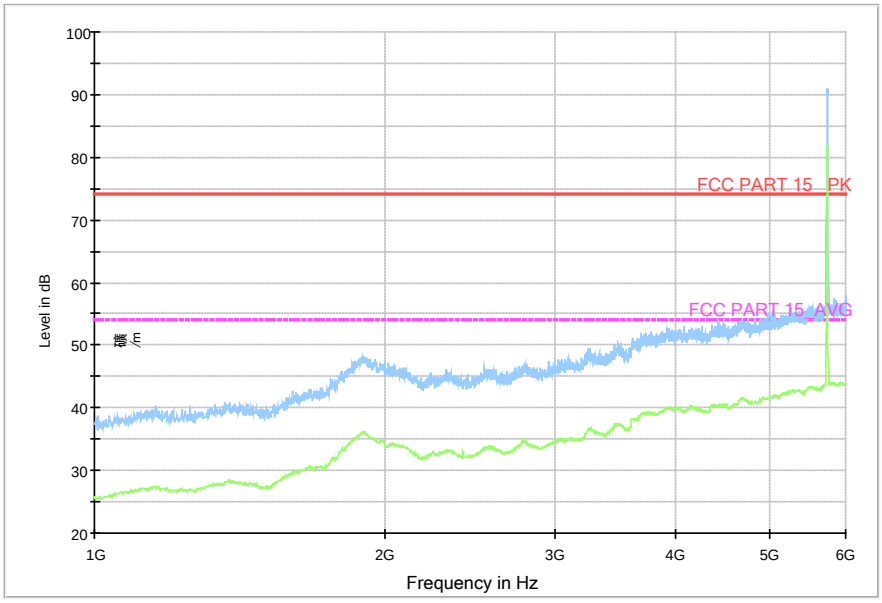

Fig. 1 Radiated Spurious Emission (802.11a, Ch149, 1 GHz-6 GHz)

Normal RE_3G-18GHz

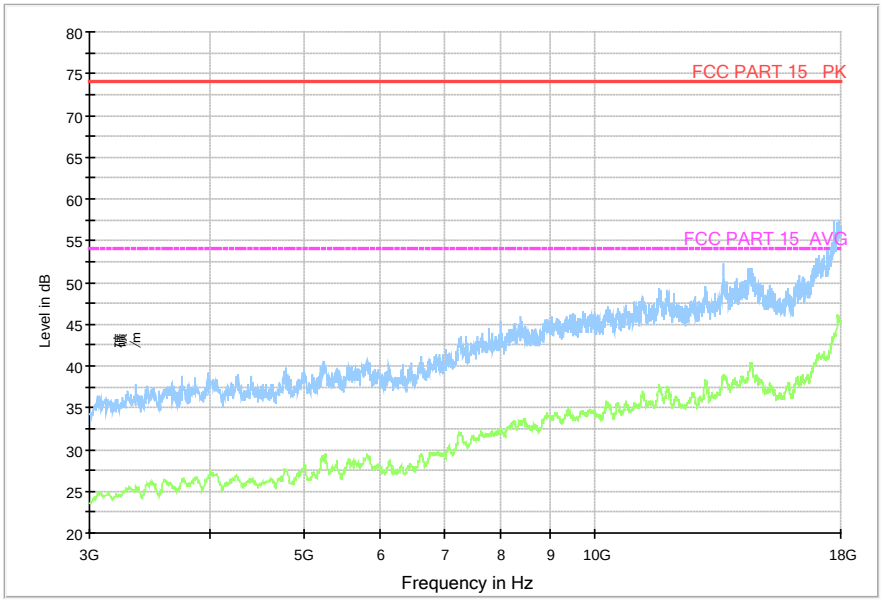

Fig. 2 Radiated Spurious Emission (802.11a, Ch149, 3 GHz-18 GHz)

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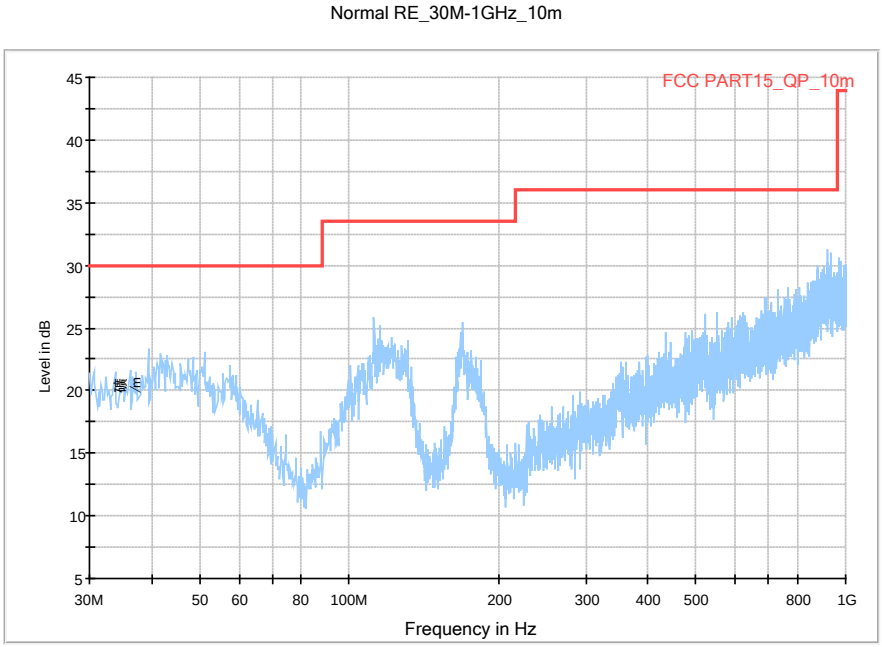

Fig. 3 Radiated Spurious Emission (802.11a, Ch157, 30 MHz-1 GHz)

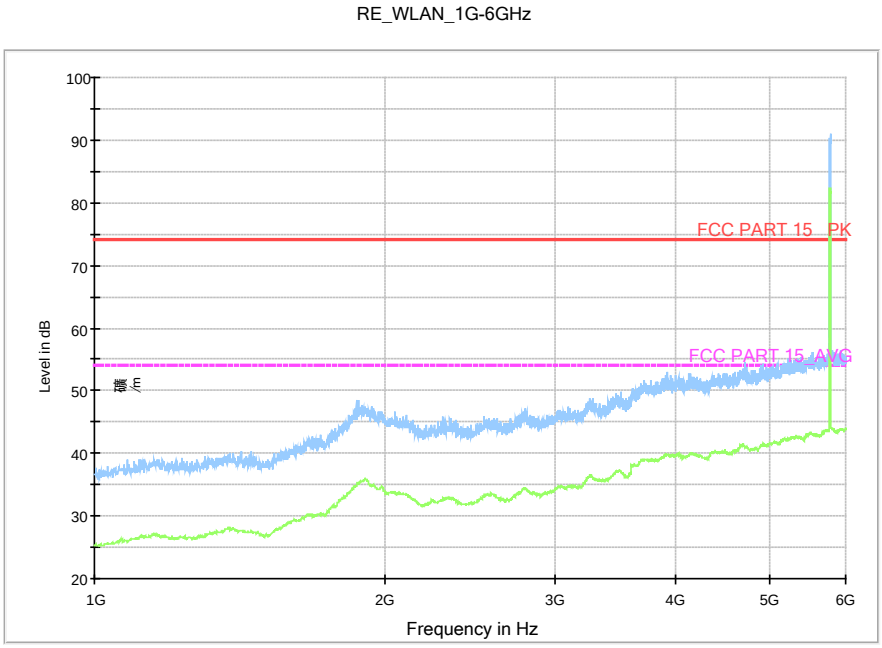

Fig. 4 Radiated Spurious Emission (802.11a, Ch157, 1 GHz-6 GHz)

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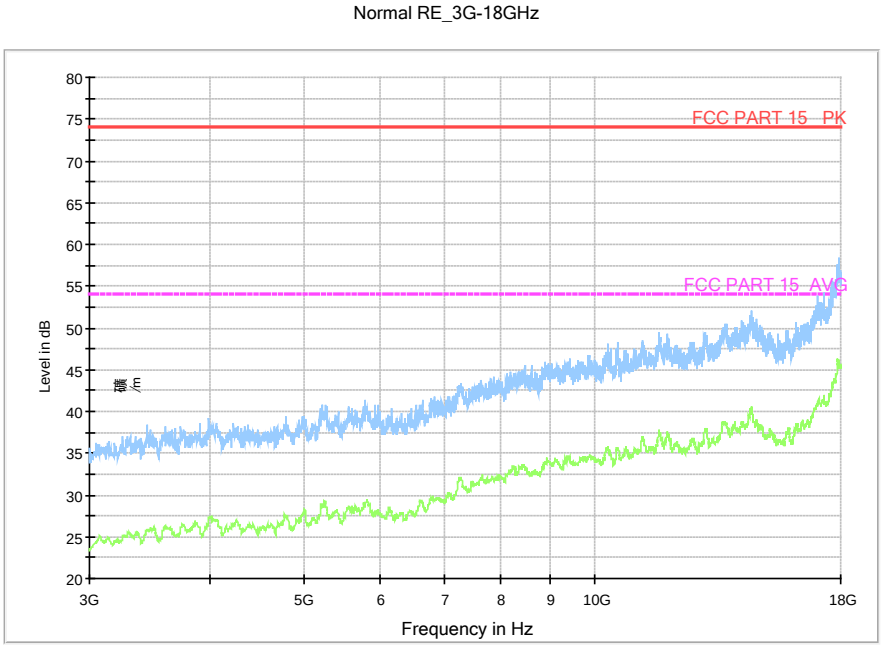

Fig. 5 Radiated Spurious Emission (802.11a, Ch157, 3 GHz-18 GHz)

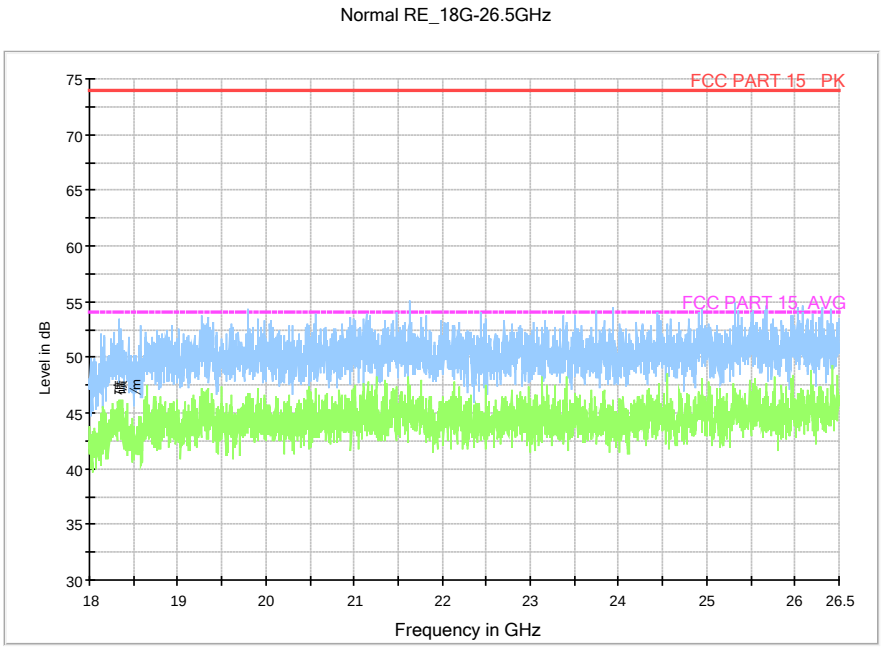

Fig. 6 Radiated Spurious Emission (802.11a, Ch157, 18 GHz-26.5 GHz)

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Normal RE_26.5G-40GHz

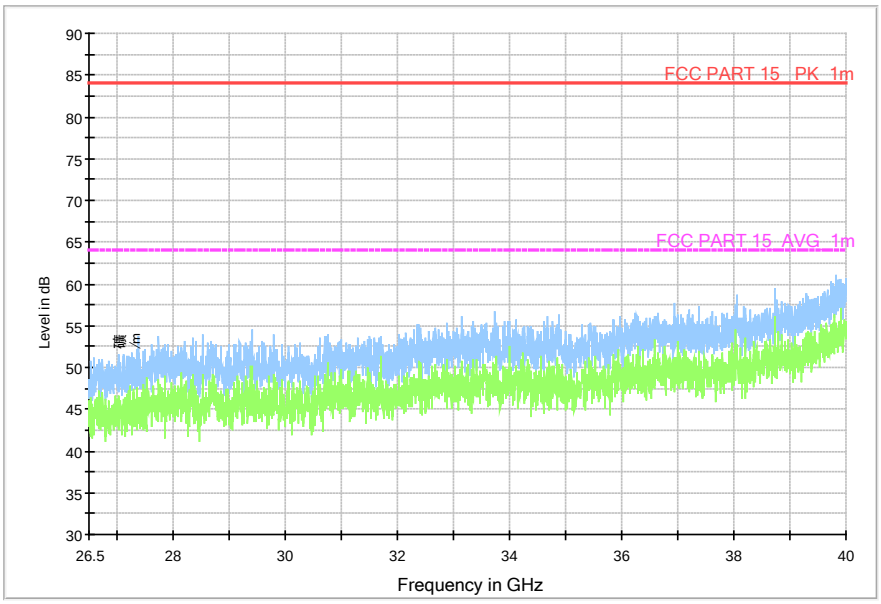

Fig. 7 Radiated emission: 802.11n, (802.11a, Ch157, 26.5 GHz - 40 GHz)

RE_WLAN_1G-6GHz

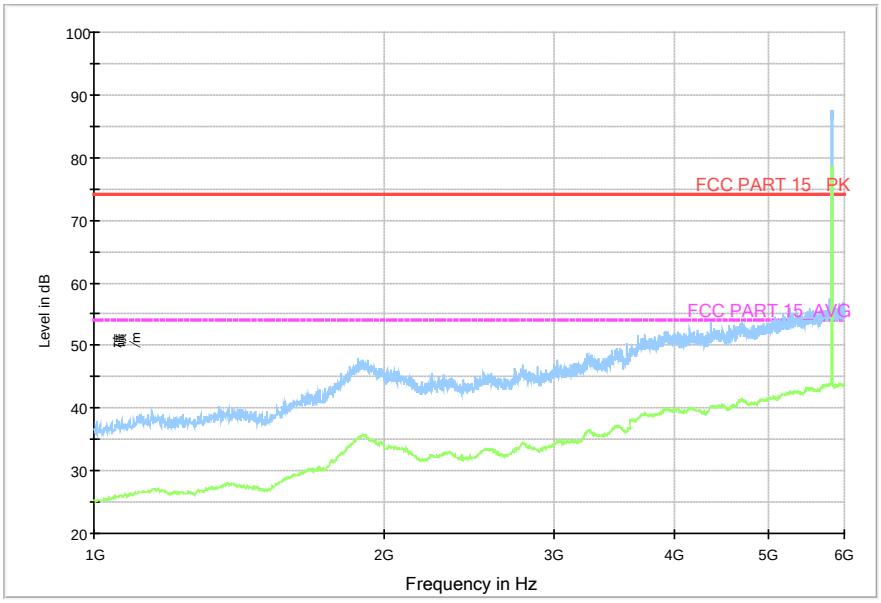

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Fig. 8 Radiated Spurious Emission (802.11a, Ch165, 1 GHz-6 GHz)

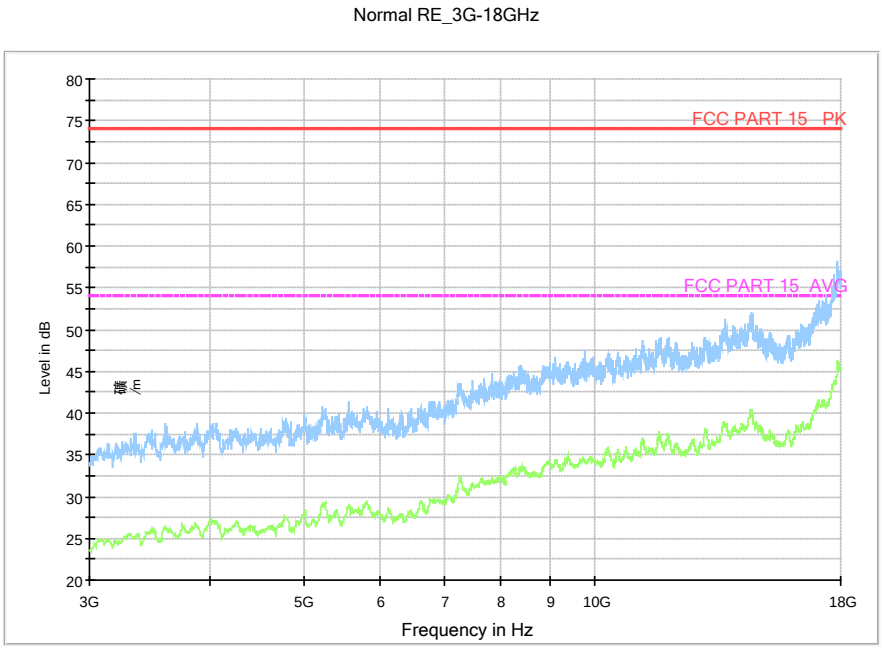

Fig. 9 Radiated Spurious Emission (802.11a, Ch165, 3 GHz-18 GHz)

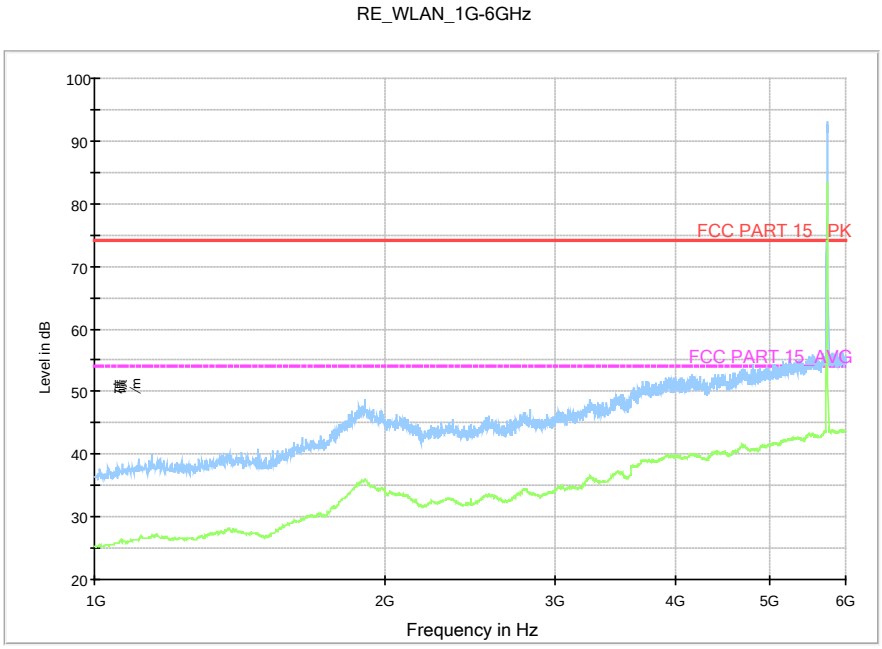

Fig. 10 Radiated Spurious Emission (802.11n-HT20, Ch149, 1 GHz-6 GHz)

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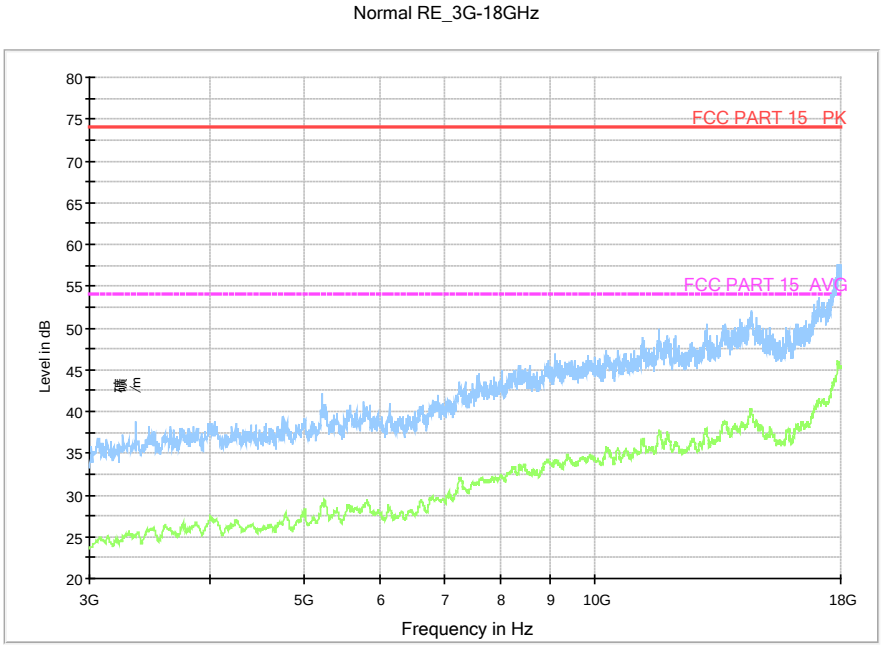

Fig. 11 Radiated Spurious Emission (802.11n-HT20, Ch149, 3 GHz-18 GHz)

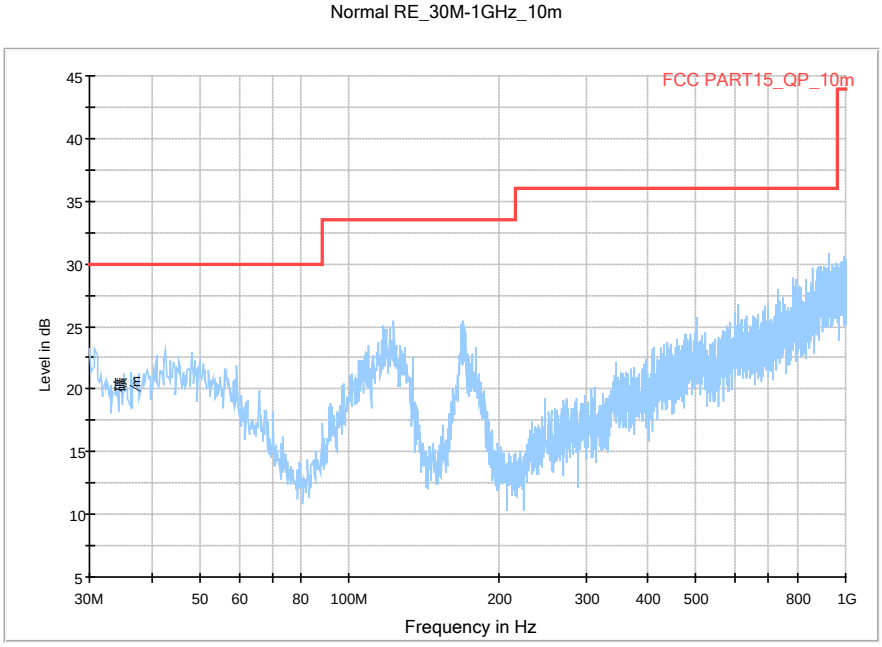

Fig. 12 Radiated Spurious Emission (802.11n-HT20, Ch157, 30 MHz-1 GHz)

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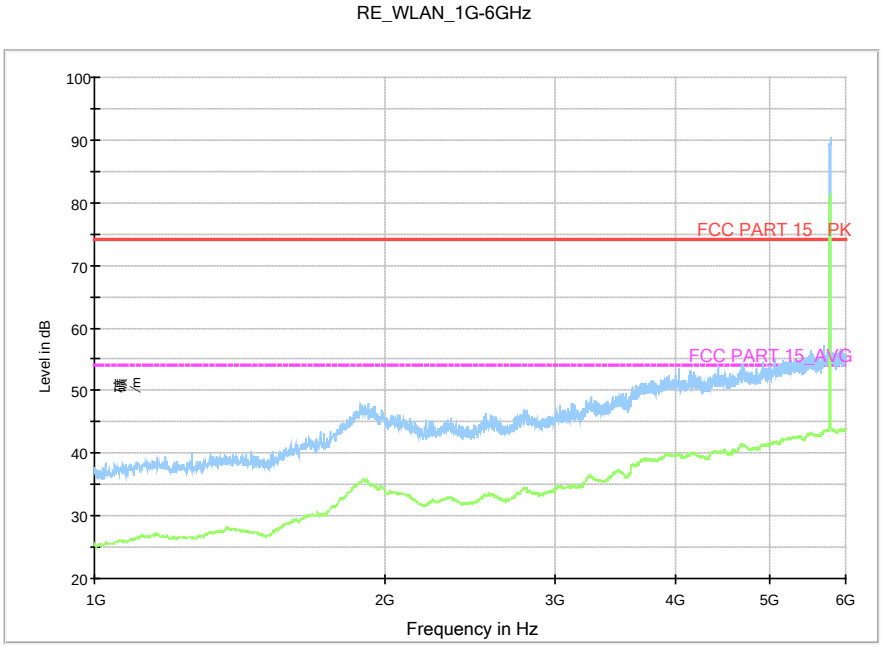

Fig. 13 Radiated Spurious Emission (802.11n-HT20, Ch157, 1 GHz-6 GHz)

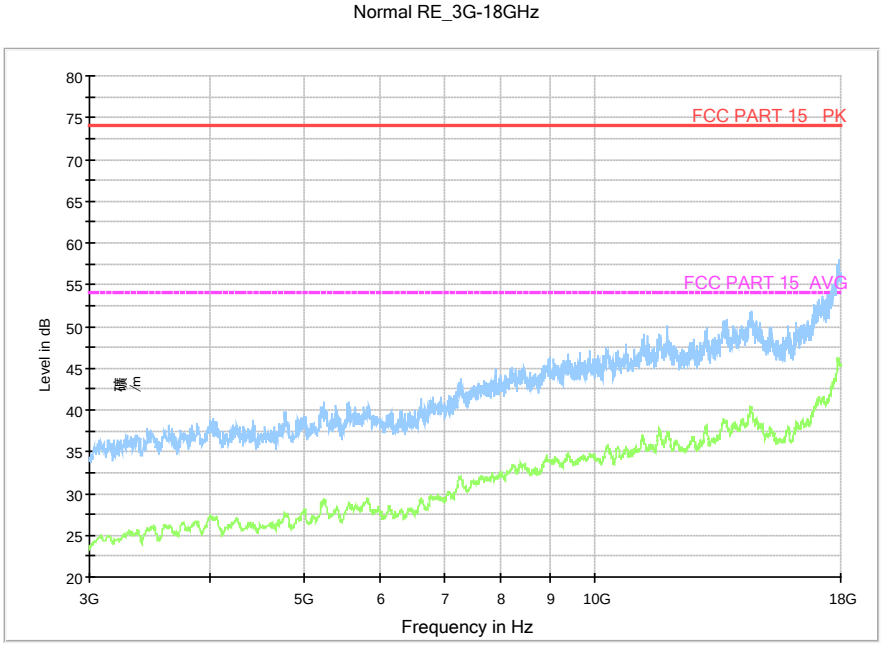

Fig. 14 Radiated Spurious Emission (802.11n-HT20, Ch157, 3 GHz-18 GHz)

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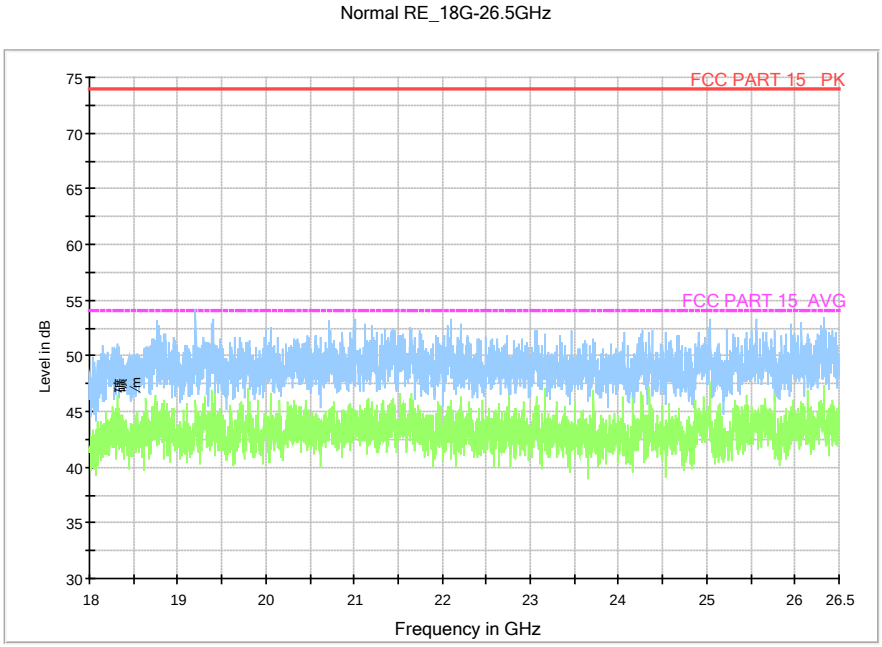

Fig. 15 Radiated Spurious Emission (802.11n-HT20, Ch157, 18 GHz-26.5 GHz)

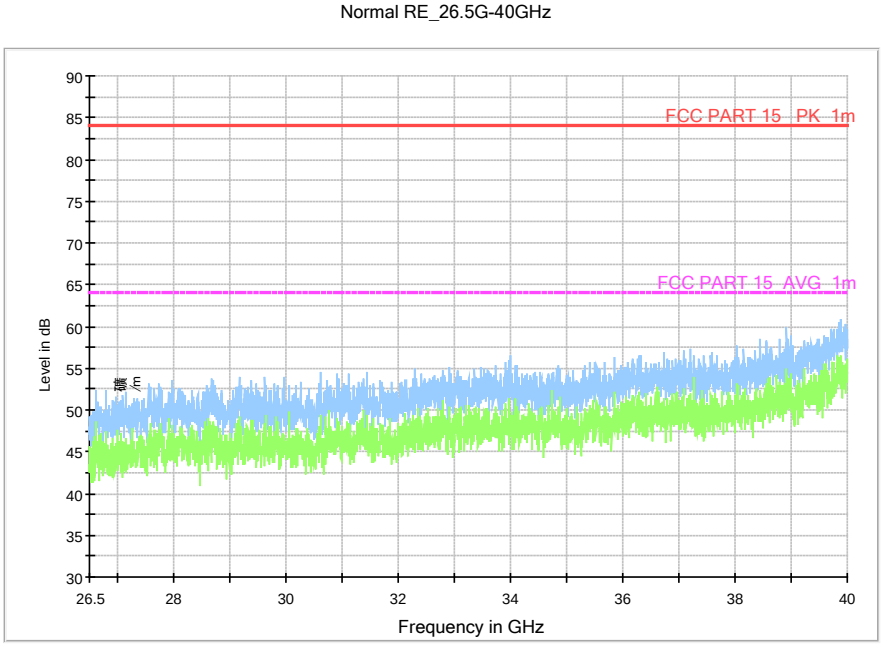

Fig. 16 Radiated emission: 802.11n, (802.11n-HT20, Ch157, 26.5 GHz - 40 GHz)

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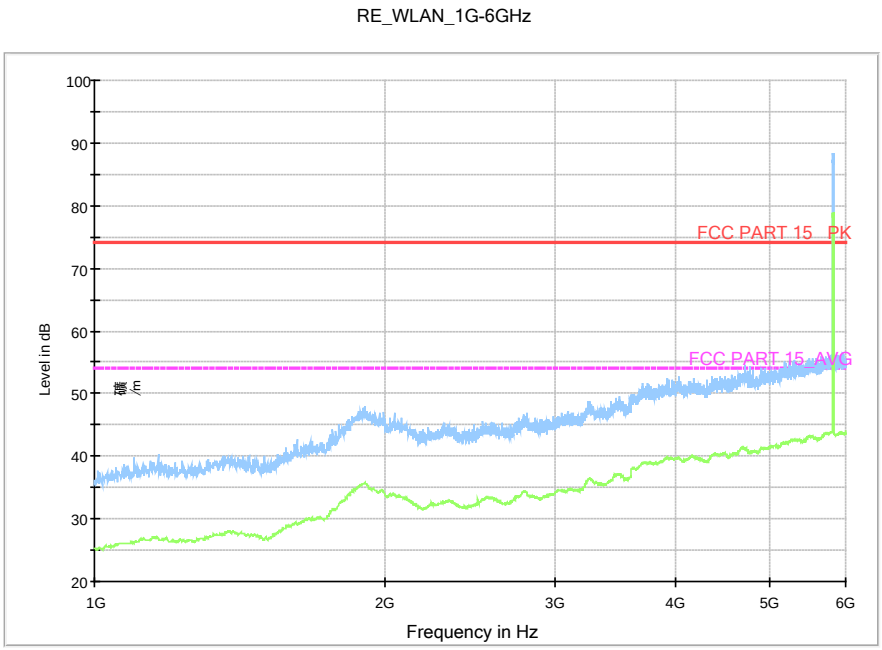

Fig. 17 Radiated Spurious Emission (802.11n-HT20, Ch165, 1 GHz-6 GHz)

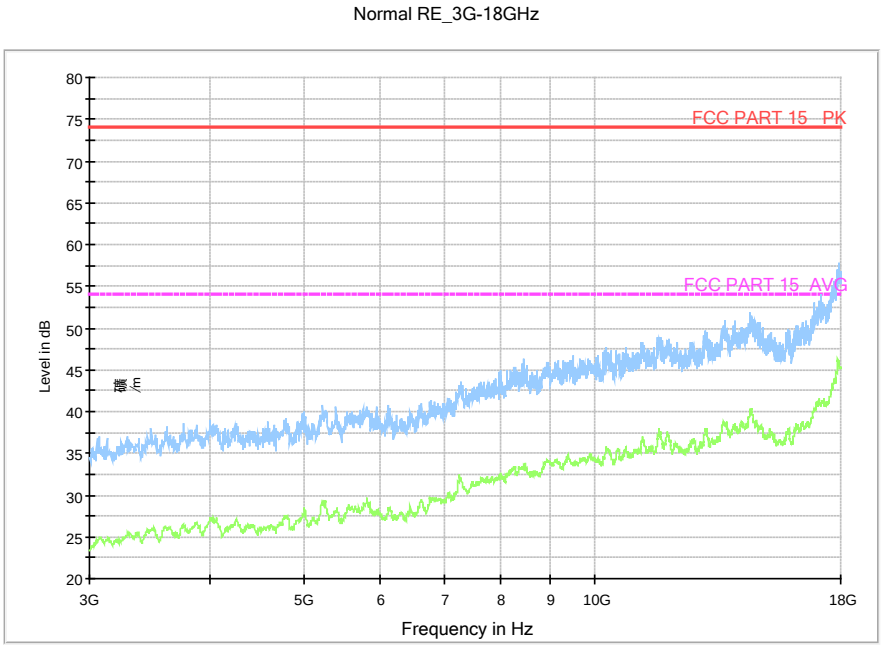

Fig. 18 Radiated Spurious Emission (802.11n-HT20, Ch165, 3 GHz-18 GHz)

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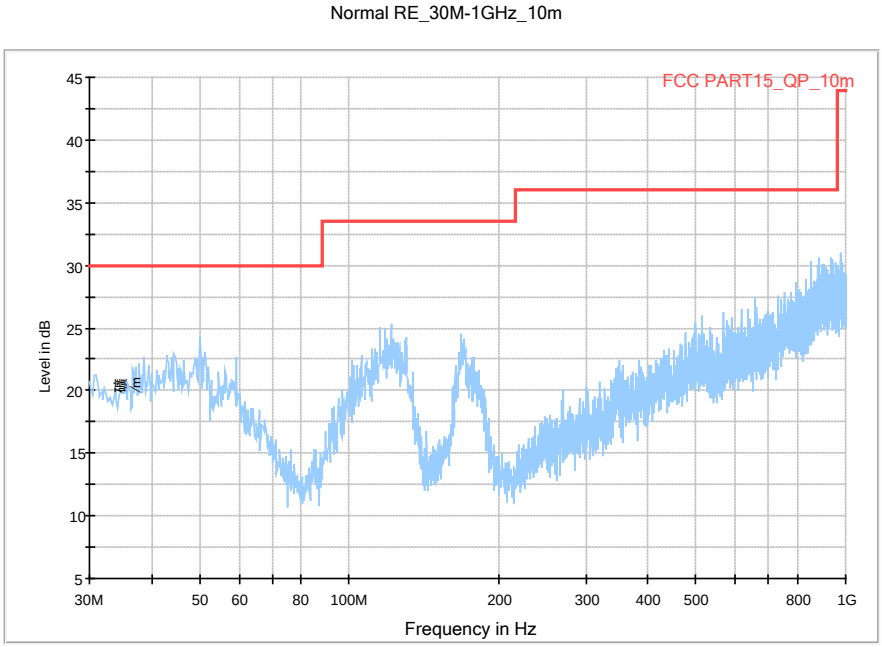

Fig. 19 Radiated Spurious Emission (802.11n-HT40, Ch151, 30 MHz-1 GHz)

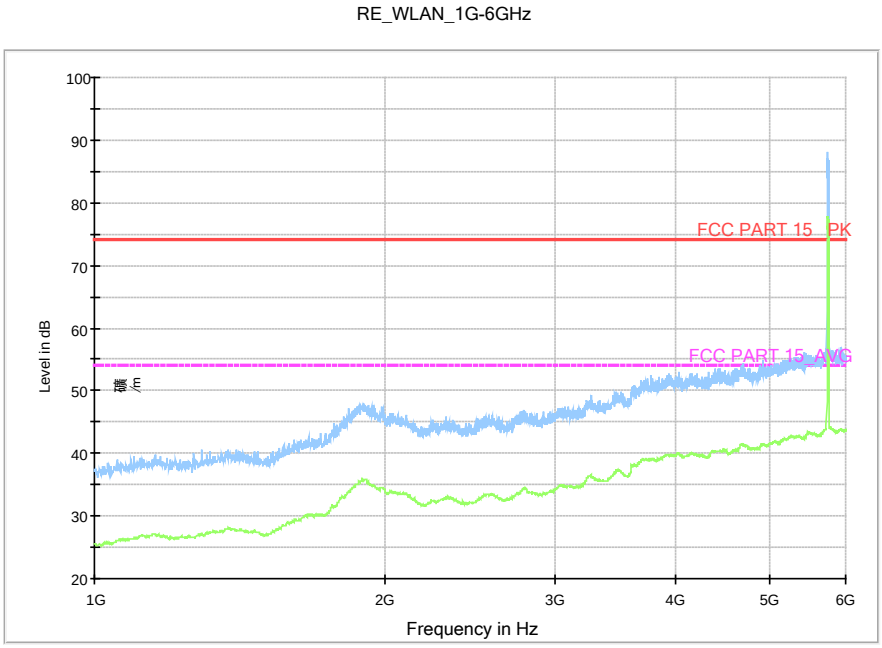

Fig. 20 Radiated Spurious Emission (802.11n-HT40, Ch151, 1 GHz-6 GHz)

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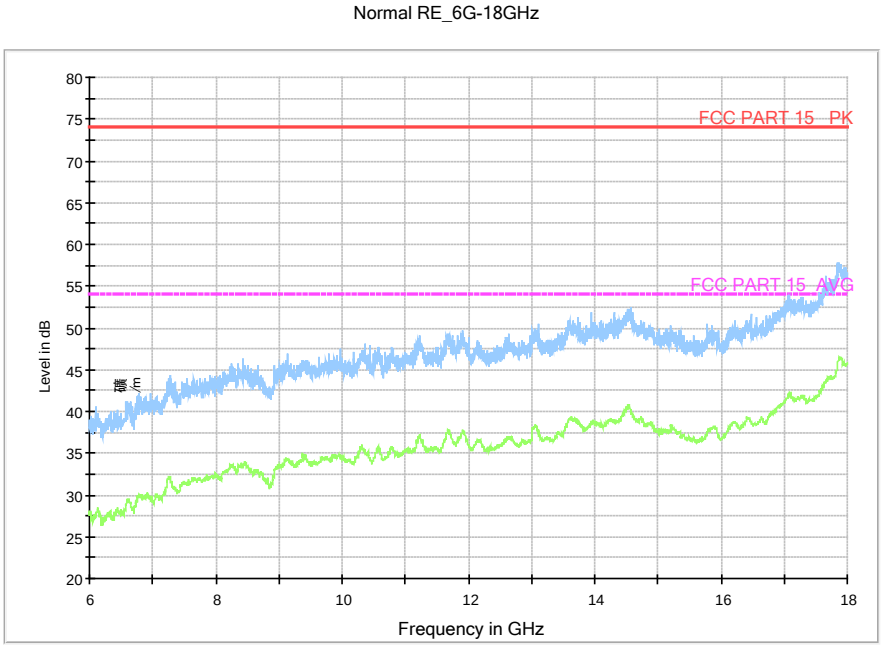

Fig. 21 Radiated Spurious Emission (802.11n-HT40, Ch151, 3 GHz-18 GHz)

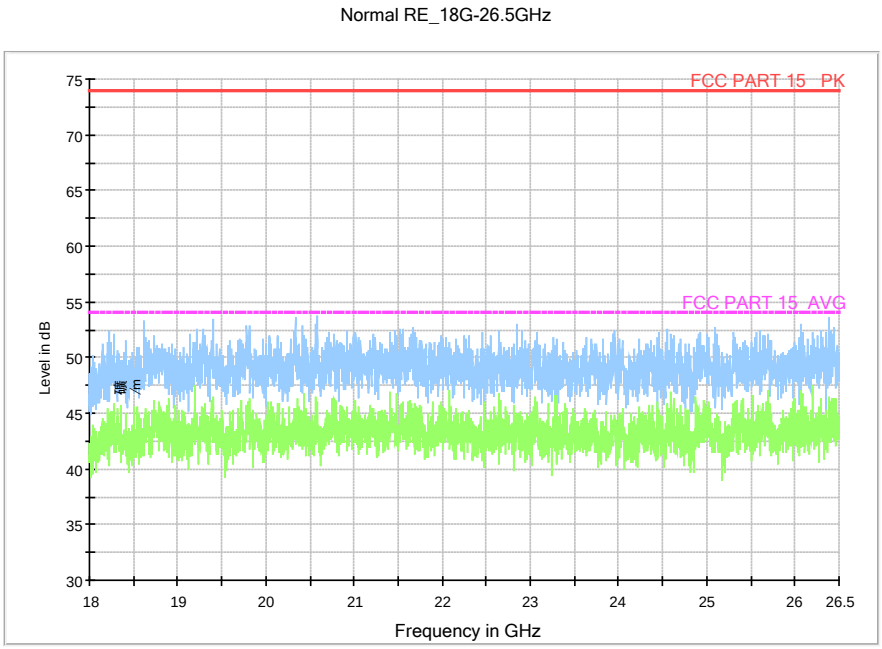

Fig. 22 Radiated Spurious Emission (802.11n-HT40, Ch151, 18 GHz-26.5 GHz)

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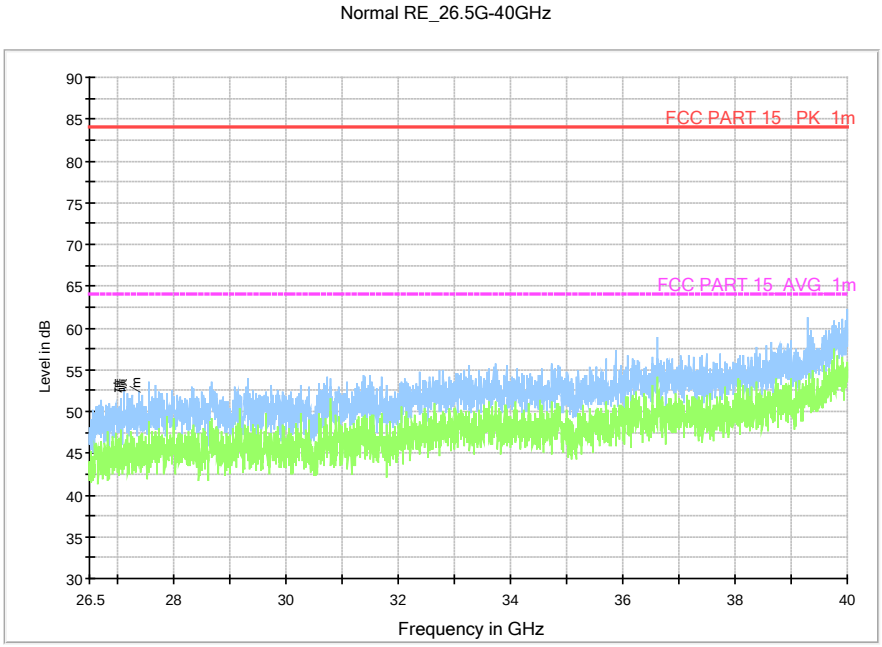

Fig. 23 Radiated emission: 802.11n, (802.11n-HT40, Ch151, 26.5 GHz - 40 GHz)

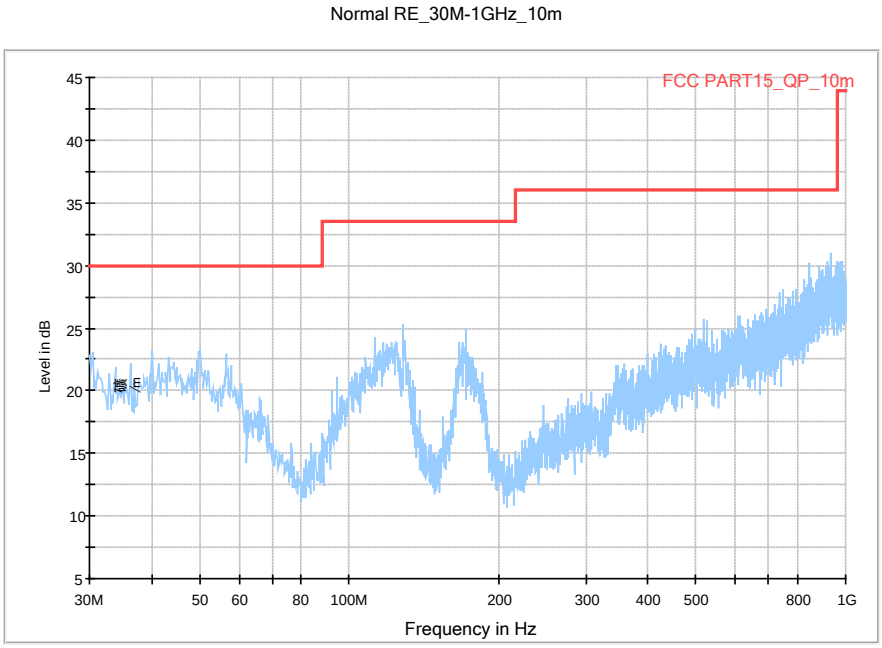

Fig. 24 Radiated Spurious Emission (802.11n-HT40, Ch159, 30 MHz-1 GHz)

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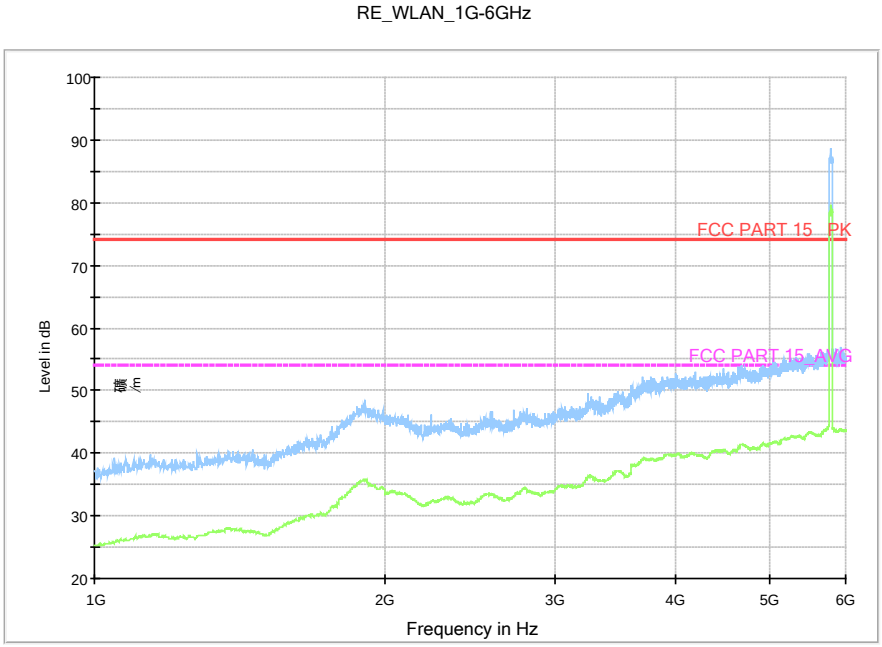

Fig. 25 Radiated Spurious Emission (802.11n-HT40, Ch159 1 GHz-6 GHz)

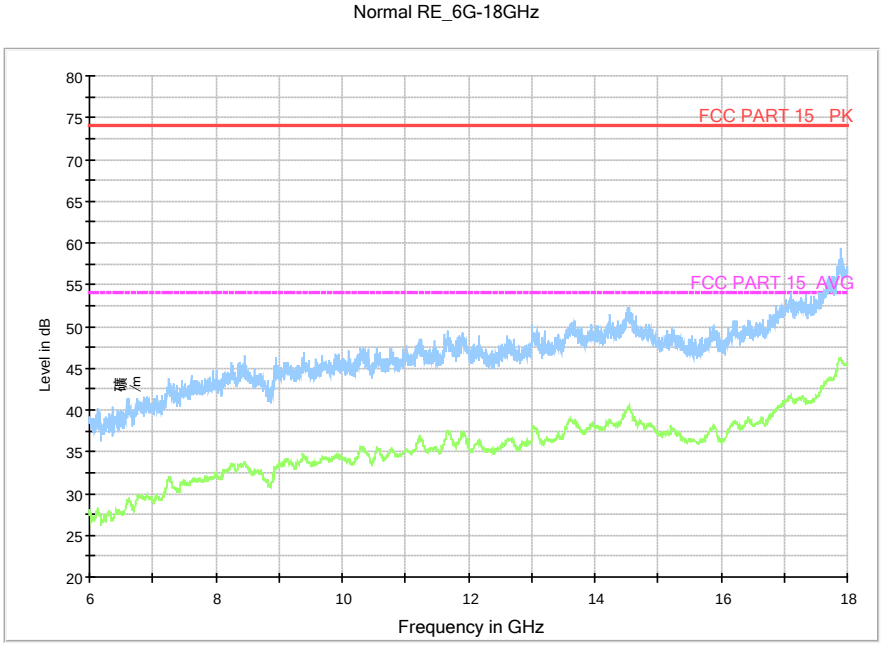

Fig. 26 Radiated Spurious Emission (802.11n-HT40, Ch159, 3 GHz-18 GHz)

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RE_WLAN_1G-6GHz

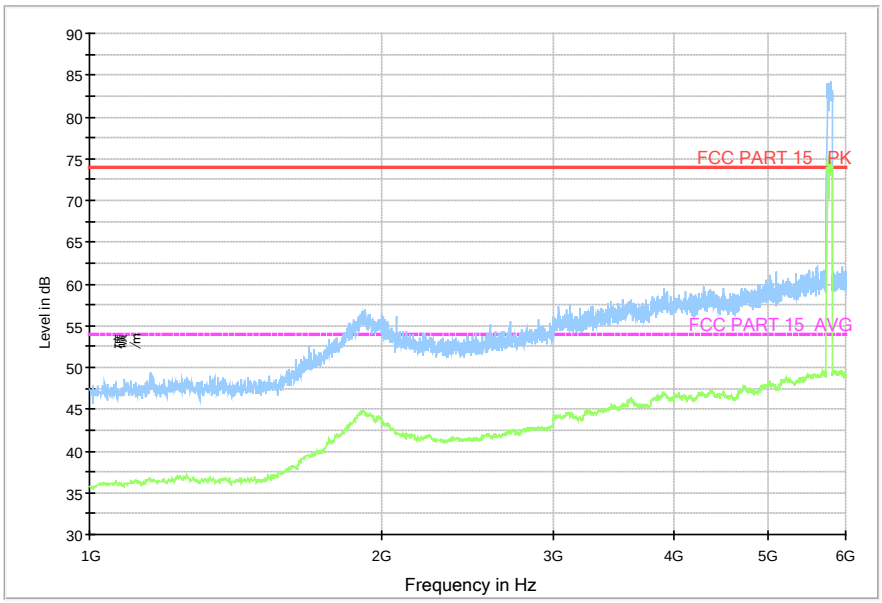

Fig. 27 Radiated Spurious Emission (802.11ac-HT80, Ch155, 1 GHz-6 GHz)

Normal RE_6G-18GHz

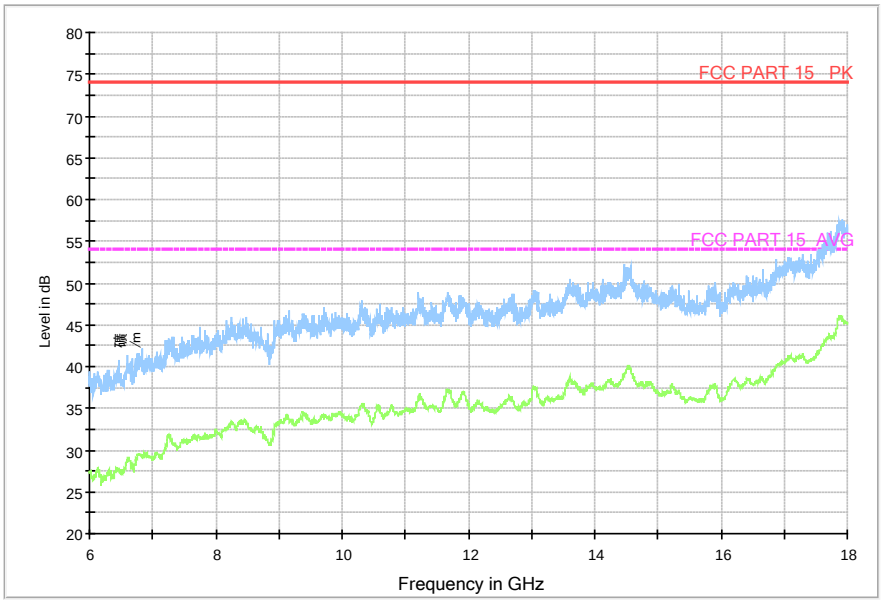

Fig. 28 Radiated Spurious Emission (802.11ac-HT80, Ch155, 3 GHz-18 GHz)

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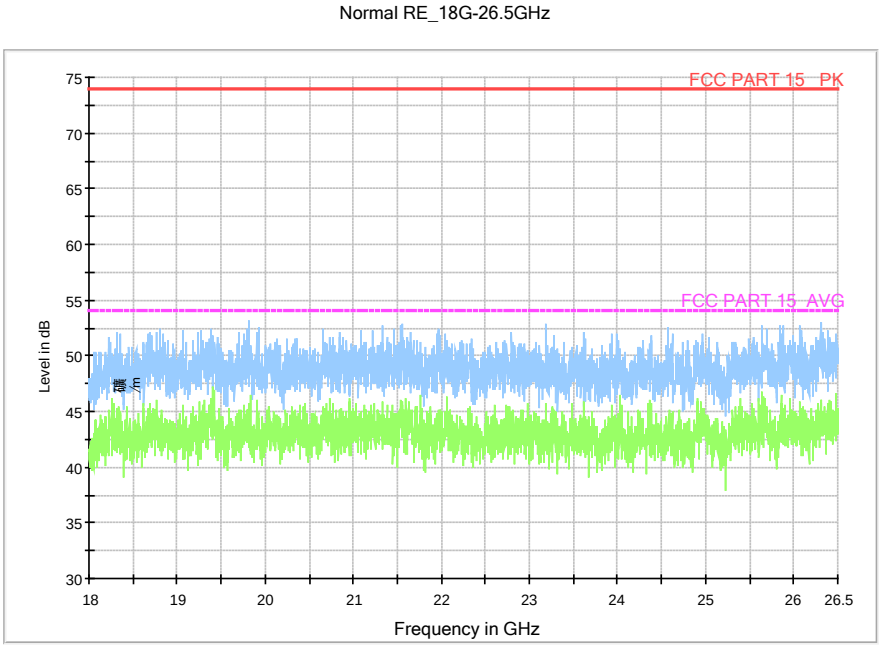

Fig. 29 Radiated Spurious Emission (802.11ac-HT80, Ch155, 18 GHz-26.5 GHz)

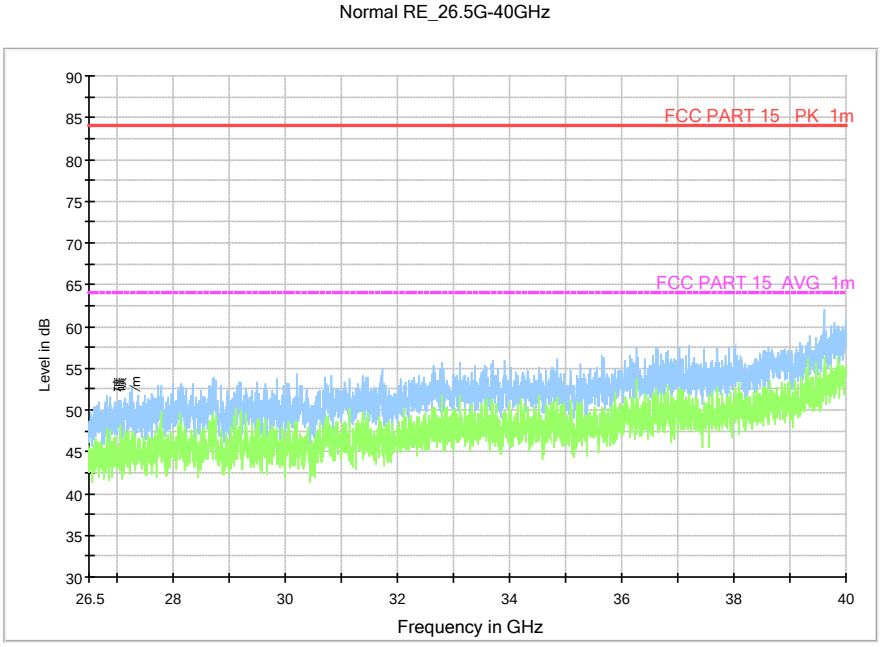

Fig. 30 Radiated emission: 802.11n, (802.11ac-HT80, Ch155, 26.5 GHz - 40 GHz)

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A.3. Band Edges Compliance

A3.1 Band Edges - Radiated

Measurement Limit:

Standard	Limit (dB μ V/m)	
FCC 47 CFR Part 15.209	Peak	74
	Average	54

The measurement is made according to KDB 789033

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)).

Modulation type and data rate:

802.11a	802.11n-HT20	802.11n-HT40	802.11ac-HT80
6Mbps	MCS0	MCS0	MCS0

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.31	P
	5825 MHz	Fig.32	P
802.11n HT20	5745 MHz	Fig.33	P
	5825 MHz	Fig.34	P
802.11n HT40	5755 MHz	Fig.35	P
	5795 MHz	Fig.36	P
802.11ac HT80	5775 MHz	Fig.37	P
	5775 MHz	Fig.38	P

Conclusion: PASS

Test graphs as below:

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RE-Power_5.685G-5.765GHz

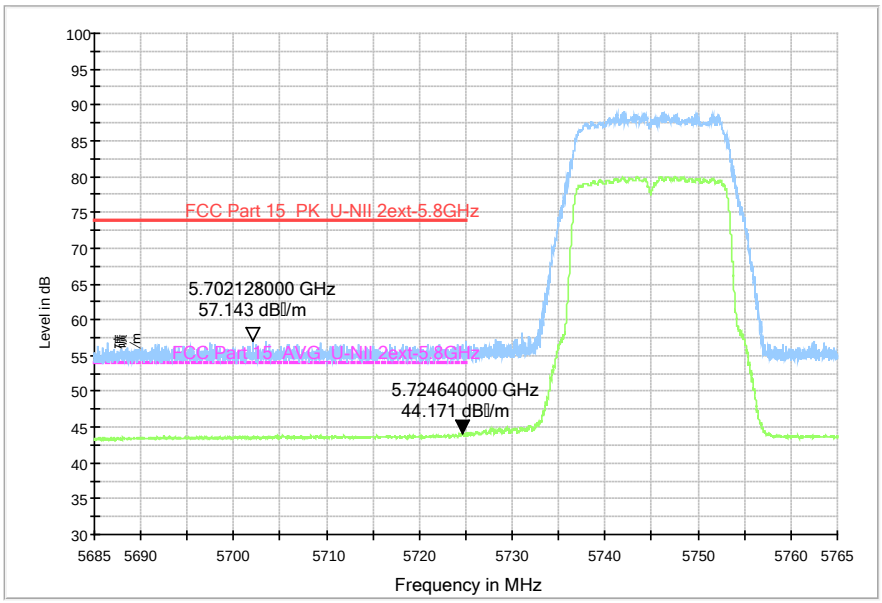

Fig. 31 Band Edges (802.11a, 5745MHz)

RE-Power_5.810G-5.890GHz

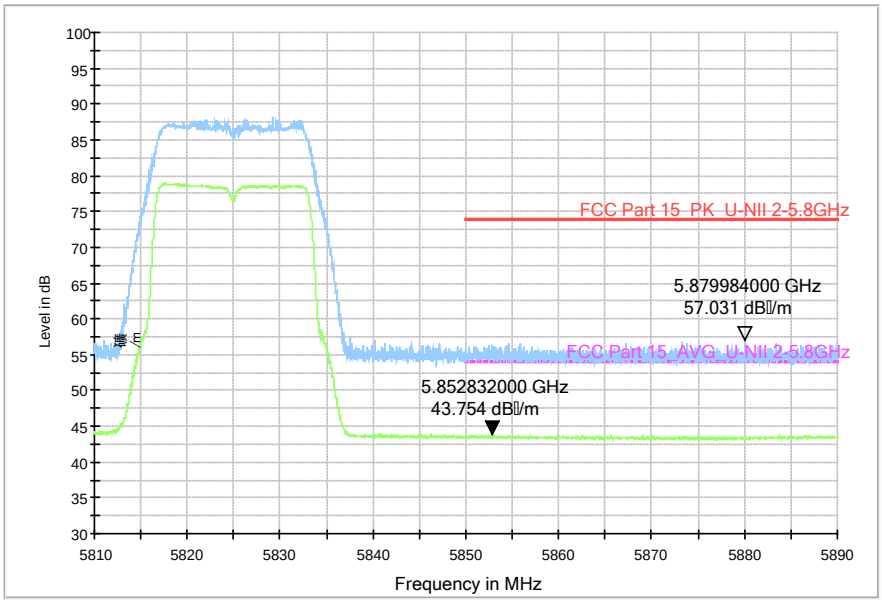

Fig. 32 Band Edges (802.11a, 5825MHz)

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RE-Power_5.685G-5.765GHz

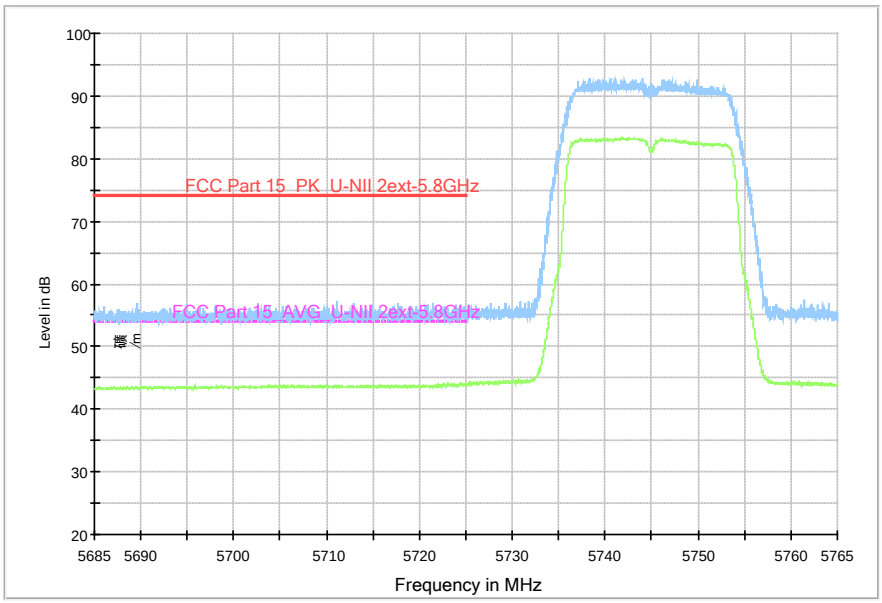

Fig. 33 Band Edges (802.11n-HT20, 5745MHz)

RE-Power_5.810G-5.890GHz

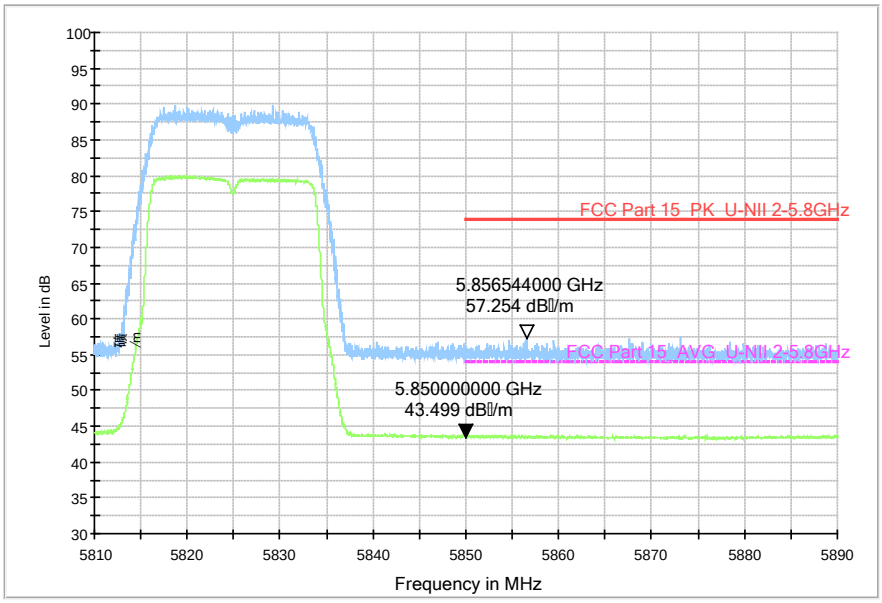

Fig. 34 Band Edges (802.11n-HT20, 5825MHz)

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RE-Power_5.685G-5.765GHz

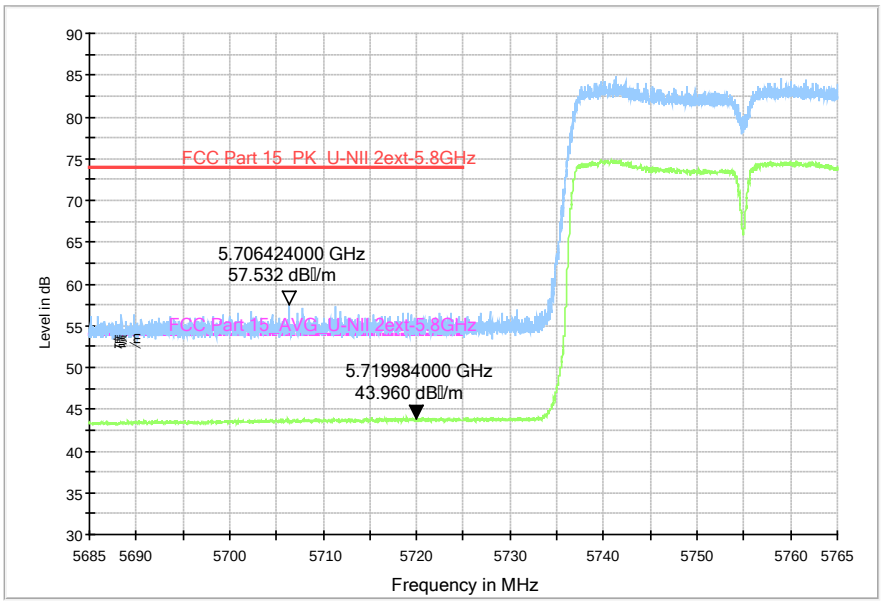

Fig. 35 Band Edges (802.11n-HT40, 5755MHz)

RE-Power_5.810G-5.890GHz

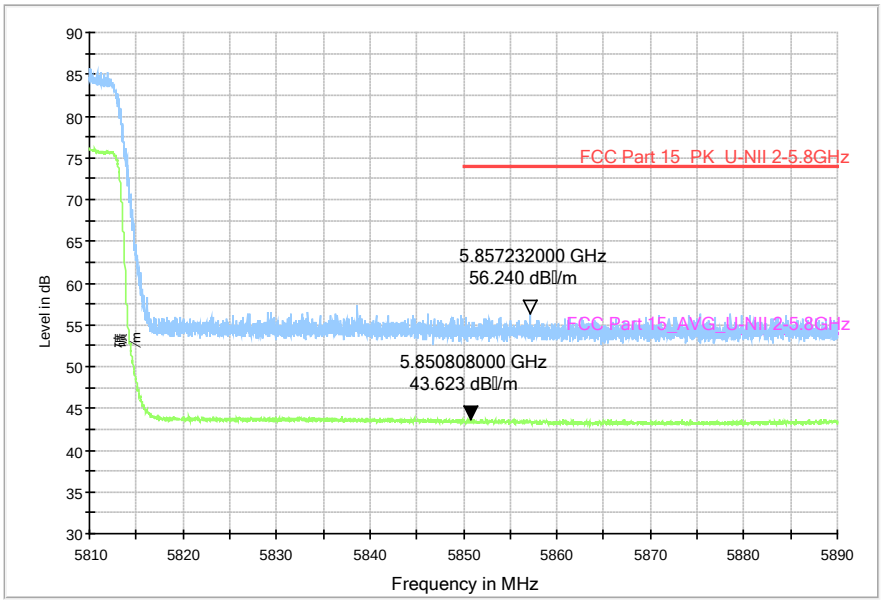

Fig. 36 Band Edges (802.11n-HT40, 5795MHz)

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RE-Power_5.685G-5.765GHz

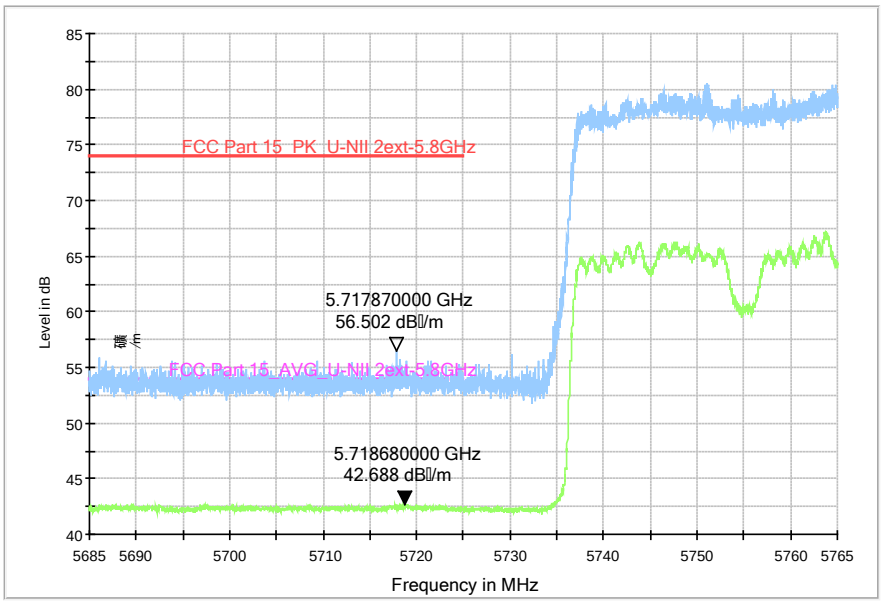

Fig. 37 Band Edges (802.11ac-HT80, 5775MHz)

RE-Power_5.810G-5.890GHz

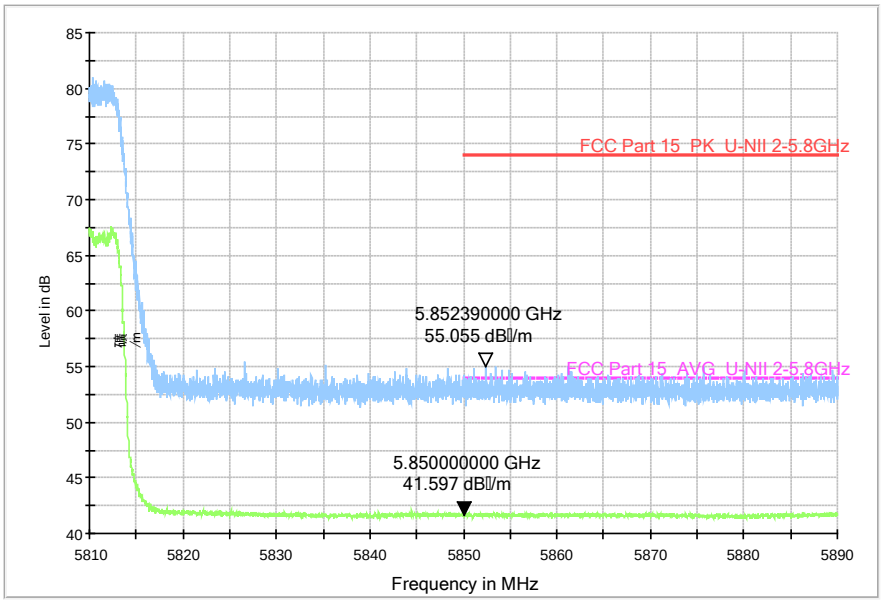

Fig. 38 Band Edges (802.11ac-HT80, 5775MHz)

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A.4. AC Powerline Conducted Emission

Test Condition:

Voltage（V）	Frequency（Hz）
110	60

Measurement uncertainty:
Expanded measurement uncertainty for this test item is U =3.2dB, k=2.

Measurement Result and limit:
WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV) With charger		Conclusion
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.39	Fig.40	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 (dBμV)	Result (dBμV) With charger		Conclusion
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.39	Fig.40	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:

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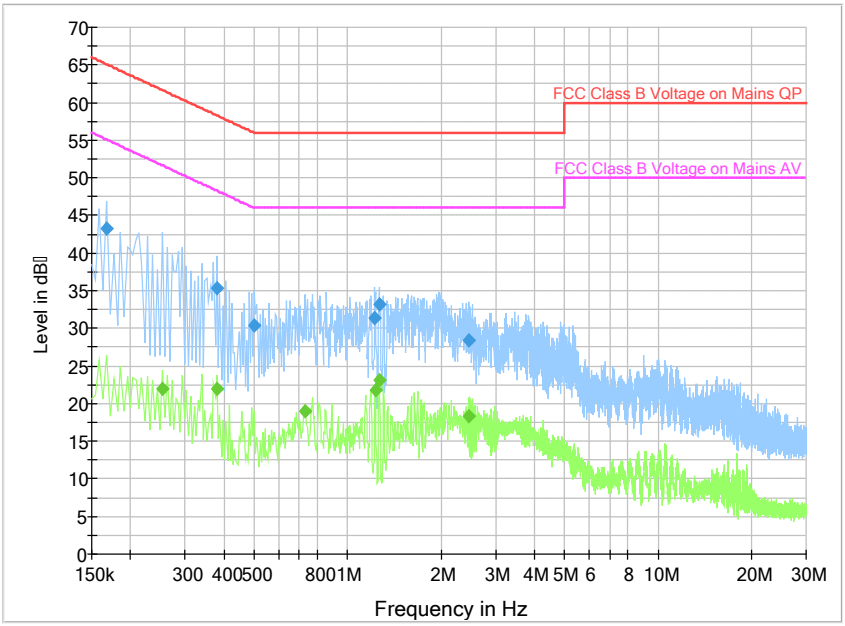

Fig. 39 AC Powerline Conducted Emission-802.11a

Measurement Result 1:

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.168000	43.3	2000.	9.000	On	N	19.7	21.7	65.1
0.379500	35.3	2000.	9.000	On	L1	19.8	23.0	58.3
0.501000	30.3	2000.	9.000	On	N	19.8	25.7	56.0
1.221000	31.4	2000.	9.000	On	L1	19.7	24.6	56.0
1.266000	33.2	2000.	9.000	On	L1	19.7	22.8	56.0
2.458500	28.4	2000.	9.000	On	N	19.6	27.6	56.0

Measurement Result 2:

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.253500	21.9	2000.	9.000	On	N	19.8	29.7	51.6
0.379500	22.0	2000.	9.000	On	N	19.8	26.3	48.3
0.730500	19.0	2000.	9.000	On	N	19.8	27.0	46.0
1.230000	21.8	2000.	9.000	On	N	19.7	24.2	46.0
1.266000	23.1	2000.	9.000	On	N	19.7	22.9	46.0
2.449500	18.4	2000.	9.000	On	N	19.6	27.6	46.0

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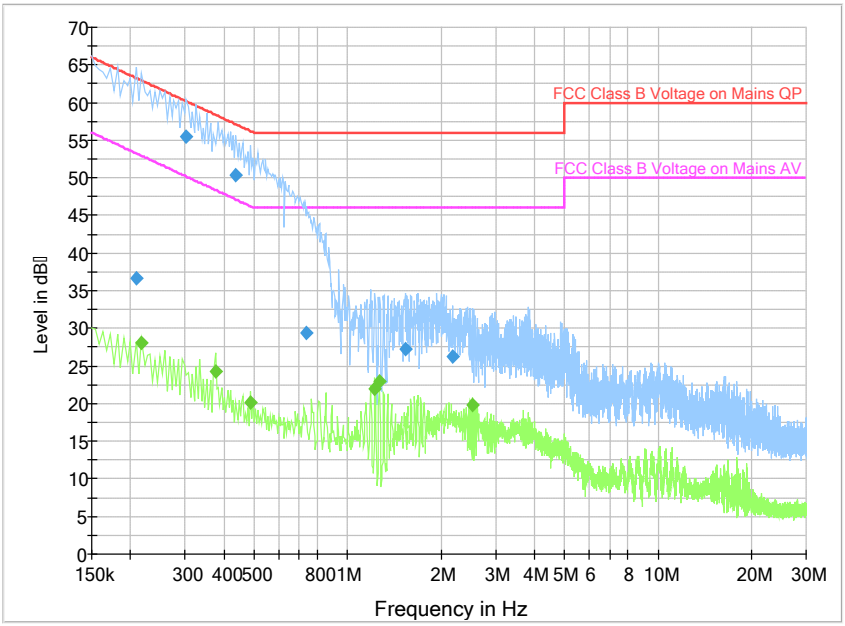

Fig. 40 AC Powerline Conducted Emission-Idle

Measurement Result 1:

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.208500	36.7	2000.	9.000	On	L1	19.7	26.6	63.3
0.303000	55.5	2000.	9.000	On	L1	19.8	4.7	60.2
0.438000	50.3	2000.	9.000	On	L1	19.8	6.8	57.1
0.739500	29.4	2000.	9.000	On	L1	19.8	26.6	56.0
1.540500	27.3	2000.	9.000	On	N	19.6	28.8	56.0
2.184000	26.3	2000.	9.000	On	N	19.6	29.7	56.0

Measurement Result 2:

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.217500	28.1	2000.	9.000	On	L1	19.8	24.8	52.9
0.375000	24.2	2000.	9.000	On	N	19.8	24.2	48.4
0.487500	20.1	2000.	9.000	On	L1	19.8	26.1	46.2
1.225500	22.0	2000.	9.000	On	N	19.7	24.0	46.0
1.266000	22.9	2000.	9.000	On	N	19.7	23.1	46.0
2.530500	19.9	2000.	9.000	On	N	19.6	26.1	46.0

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