



TEST REPORT

No. I19D00117-SRD08

For

Client: Micronet

Production: A9 PCBA module

Model Name: A9

Brand Name: TREQ

FCC ID: U8O-A9

IC ID: 12186A-A9

Hardware Version: C801_V1.00_PCB

Software Version: SC_10.2.0.0

Issued date: 2019-09-12

NOTE

1. The test results in this test report relate only to the devices specified in this report.
2. This report shall not be reproduced except in full without the written approval of East China Institute of Telecommunications.
3. KDB 789033 standard has not been accredited by A2LA.
4. For the test results, the uncertainty of measurement is not taken into account when judging the compliance with specification, and the results of measurement or the average value of measurement results are taken as the criterion of the compliance with specification directly.

Test Laboratory:

East China Institute of Telecommunications

Add: 7-8F, G Area, No.668, Beijing East Road, Huangpu District, Shanghai, P. R. China

Tel: +86 21 63843300

FAX: +86 21 63843301

E-Mail: welcome@ecit.org.cn

Revision Version

Report Number	Revision	Date	Memo
I19D00117-SRD08	00	2019-09-12	Initial creation of test report

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1. Test Laboratory

1.1. Testing Location

Company Name	East China Institute of Telecommunications
Address	7-8/F., Area G, No.668, Beijing East Road, Shanghai, China
Postal Code	200001
Telephone	+86 21 63843300
Fax	+86 21 63843301
FCC registration No	CN1177

1.2. Testing Environment

Normal Temperature	15℃-35℃
Relative Humidity	20%-75%

1.3. Project Data

Project Leader	Zhou Yan
Testing Start Date	2019-07-25
Testing End Date	2019-08-03

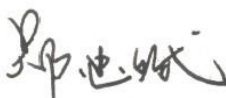
1.4. Signature



Wang Liang
(Prepared this test report)



Fan Songyan
(Reviewed this test report)



Zheng Zhongbin
(Approved this test report)

2. Client Information

2.1.Applicant Information

Company Name	Micronet
Address	1865 West 2100 South, Suite 2 Salt Lake City, Utah 84119 United States
Telephone	+1-801-990-8700
Postcode	84119

2.2.Manufacturer Information

Company Name	Micronet
Address	1865 West 2100 South, Suite 2 Salt Lake City, Utah 84119 United States
Telephone	+1-801-990-8700
Postcode	84119

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1.About EUT

Production	A9 PCBA module
Model name	A9
WLAN(5G)	802.11 a/n20/n40/ac20/ac40
Frequency Range	ISM Bands: 5725MHz-5850MHz
WLAN type of modulation	OFDM
Extreme Temperature	-20/+70℃
Nominal Voltage	3.8V
Extreme High Voltage	4.2V
Extreme Low Voltage	3.7V
Maximum of Antenna Gain	WIFI5.8Ghz: 6dBi

Note:

- Photographs of EUT are shown in ANNEX A of this test report.
- The value of the antenna gain is provided by the customer. For specific antenna information, please check the antenna specifications of the customer.

3.2.Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N19	/	C801_V1.00_PCB	SC_10.2.0.0	2019-07-22
N20	/	C801_V1.00_PCB	SC_10.2.0.0	2019-07-22

*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	Manufacturer
AE1	RF cable	---	AE1

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

4. Reference Documents

4.1. Documents supplied by applicant

All technical documents are supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

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

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; Subpart E—Unlicensed National Information Infrastructure Devices	2018-10-01
ANSI 63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
KDB 789033	Information Infrastructure (U-NII) Devices - Part 15, Subpart E	2017
KDB 905462	COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION	2016
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices	2017
RSS-Gen	General Requirements for Compliance of Radio Apparatus	2018

5. Test Results

5.1. Summary of Test Results

Measurement Items	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	RSS-247,6.2	P
Power Spectral Density	15.407	RSS-247,6.2	P
Occupied 6dB Bandwidth	15.403	RSS-247,6.2	P
Band edge compliance	15.407	RSS-247,6.2	P
Transmitter Spurious Emission - Conducted	15.407	RSS-GEN,8.8	P
Transmitter Spurious Emission - Radiated	15.407	RSS-GEN,8.8	P
AC Powerline Conducted Emission	15.407	RSS-247, Gen 3.2	P

Note: Please refer to section 6 for detail; please refer to Annex A in this test report for the detailed test results.

The following terms are used in the above table.

P	Pass, the EUT complies with the essential requirements in the standard.
NP	Not Perform, the test was not performed by ECIT.
NA	Not Applicable, the test was not applicable.
F	Fail, the EUT does not comply with the essential requirements in the standard.

Test Conditions

Tnom	Normal Temperature
Tmin	Low Temperature
Tmax	High Temperature
Vnom	Normal Voltage
Vmin	Low Voltage
Vmax	High Voltage
Hnom	Norm Humidity
Anom	Norm Air Pressure

For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	Tnom	25℃
Voltage	Vnom	3.8V
Humidity	Hnom	48%
Air Pressure	Anom	1010hPa

5.2.Statements

The A9 is an initial product for testing.

ECIT only performed test cases which identified with P/NP/NA/F results in Annex A.

ECIT has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

6. Test Equipments Utilized

6.1. Conducted Test System

Item	Instrument Name	Type	SN	Manufacturer	Cal. Date	Cal. interval
1	Vector Signal Analyzer	FSQ40	200063	R&S	2019-05-10	1 year
2	DC Power Supply	ZUP60-14	LOC-220Z0 06-0007	TDL-Lambda	2019-05-10	1 year

6.2. Radiated Emission Test System

Item	Instrument Name	Type	SN	Manufacturer	Cal. Date	Cal. interval
1	Universal Radio Communication Tester	CMU200	123123	R&S	2019-05-10	1 year
2	EMI Test Receiver	ESU40	100307	R&S	2019-05-10	1 year
3	TRILOG Broadband Antenna	VULB9163	VULB9163-515	Schwarzbeck	2017-02-25	3 years
4	Double- ridged Waveguide Antenna	ETS-3117	00135890	ETS	2017-01-11	3 years
5	2-Line V-Network	ENV216	101380	R&S	2019-05-10	1 year
6	Loop Antenna	AL-130R	121083	COM-POWER	2016-11-21	3 years

6.3. Conducted Test Software

Software Name	Version
Eagle1.0	20181112

6.4. Radiated Test Software

Software Name	Version
EMC32	V10.35.02

Anechoic chamber

Fully anechoic chamber by ETS.

7. Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in ECIT documents .
The detailed measurement uncertainty is defined in ECIT documents.

Measurement Items	Range	Confidence Level	Calculated Uncertainty
Peak Output Power-Conducted	5100MHz-5850MHz	95%	$\pm 1.024\text{dB}$
Peak Power Spectral Density	5100MHz-5850MHz	95%	$\pm 1.024\text{dB}$
Occupied 6dB Bandwidth	5100MHz-5850MHz	95%	$\pm 62.04\text{Hz}$
Frequency Band Edges-Conducted	5100MHz-5850MHz	95%	$\pm 1.024\text{dB}$
Conducted Emission	30MHz-2GHz	95%	$\pm 0.90\text{dB}$
Conducted Emission	2GHz-3.6GHz	95%	$\pm 0.88\text{dB}$
Conducted Emission	3.6GHz-8GHz	95%	$\pm 0.96\text{dB}$
Conducted Emission	8GHz-20GHz	95%	$\pm 0.94\text{dB}$
Conducted Emission	20GHz-22GHz	95%	$\pm 0.88\text{dB}$
Conducted Emission	22GHz-26GHz	95%	$\pm 0.86\text{dB}$
Transmitter Spurious Emission-Radiated	9KHz-30MHz	95%	$\pm 5.66\text{dB}$
Transmitter Spurious Emission-Radiated	30MHz-1000MHz	95%	$\pm 4.98\text{dB}$
Transmitter Spurious Emission-Radiated	1000MHz -18000MHz	95%	$\pm 5.06\text{dB}$
Transmitter Spurious Emission-Radiated	18000MHz -40000MHz	95%	$\pm 5.20\text{dB}$
AC Power line Conducted Emission	0.15MHz-30MHz	95%	$\pm 3.66\text{ dB}$

8. Test Environment

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C , Max. = 35 °C
Relative humidity	Min. = 20 % , Max. = 75 %
Shielding effectiveness	> 100 dB
Ground system resistance	< 0.5 Ω

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C , Max. = 35 °C
Relative humidity	Min. =30 % , Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

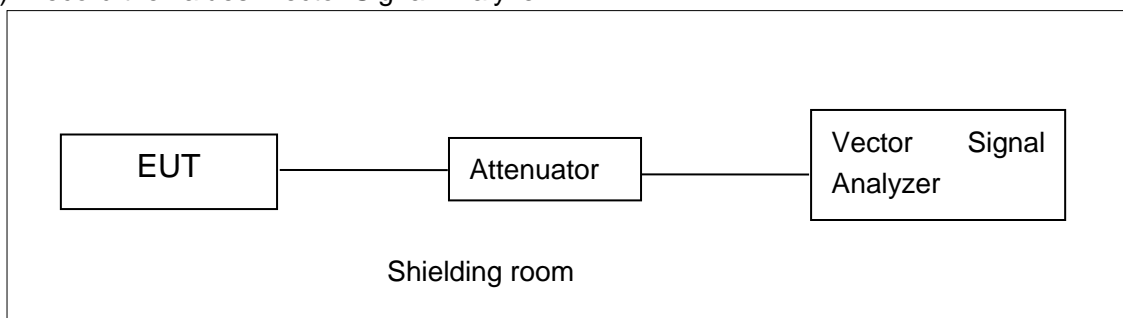
Temperature	Min. = 15 °C , Max. = 35 °C
Relative humidity	Min. = 25 % , Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB,30MHz to 1GHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

ANNEX A. Detailed Test Results

ANNEX 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

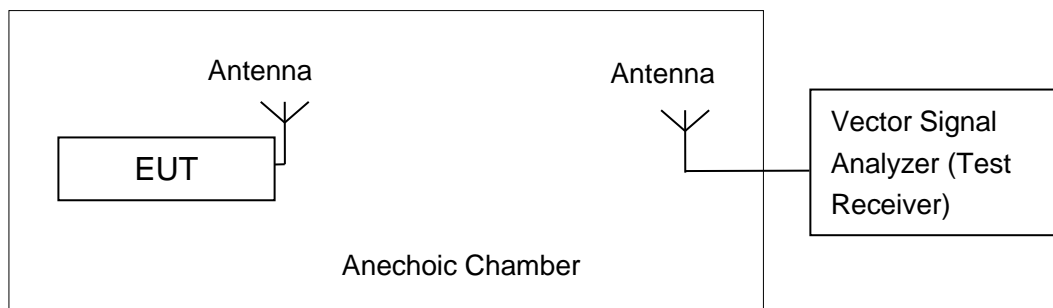


A.1.2. Radiated Emission Measurements

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.

ANNEX A.2. Maximum Average Output Power-Conducted

Measurement Limit and Method:

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

Method of Measurement: See ANSI C63.10-clause 12.3.2.2 Method SA-1

Set the spectrum analyzer in the following:

Detector: RMS.

RBW=1MHz.

VBW=3MHz.

Sweep time = AUTO.

Span:30MHz (for 20MHz); 50MHz (for 40MHz).

802.11a mode

U-NII-3

Mode	Data Rate(Mbps)	Test Result(dBm)		
		5745MHz(Ch149)	5785MHz(Ch157)	5825MHz(Ch149)
802.11a	6	11.21	11.36	11.02
Mode	Data Rate(Mbps)	EIRP(dBm)		
		5745MHz(Ch149)	5785MHz(Ch157)	5825MHz(Ch149)
802.11a	6	17.21	17.36	17.02

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

802.11n-HT20 mode

U-NII-3

Mode	Data Rate(Index)	Test Result(dBm)		
		5745MHz	5785MHz	5825MHz
802.11n(20MHz)	MCS0	11.23	11.41	11.08
Mode	Data Rate(Index)	EIRP(dBm)		
		5745MHz	5785MHz	5825MHz
802.11n(20MHz)	MCS0	17.23	17.41	17.08

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

802.11n-HT40 mode

U-NII-3

Mode	Data Rate(Index)	Test Result(dBm)		
		5755MHz	/	5795MHz
802.11n(40MHz)	MCS0	11.78	/	12.05
Mode	Data Rate(Index)	EIRP(dBm)		
		5755MHz	/	5795MHz
802.11n(40MHz)	MCS0	17.78	/	18.05

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

802.11ac-VHT20 mode

U-NII-3

Mode	Data Rate(Mbps)	Test Result(dBm)		
		5745MHz	5785MHz	5825MHz
802.11ac(20MHz)	6	11.24	11.42	11.03
Mode	Data Rate(Mbps)	EIRP(dBm)		
		5745MHz	5785MHz	5825MHz
802.11ac(20MHz)	6	17.24	17.42	17.03

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

802.11ac-VHT40 mode**U-NII-3**

Mode	Data Rate(Index)	Test Result(dBm)		
		5755MHz	/	5795MHz
802.11 ac (40MHz)	MCS0	8.73	/	12.05
Mode	Data Rate(Index)	EIRP(dBm)		
		5755MHz	/	5795MHz
802.11 ac (40MHz)	MCS0	14.73	/	18.05

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

Conclusion: PASS

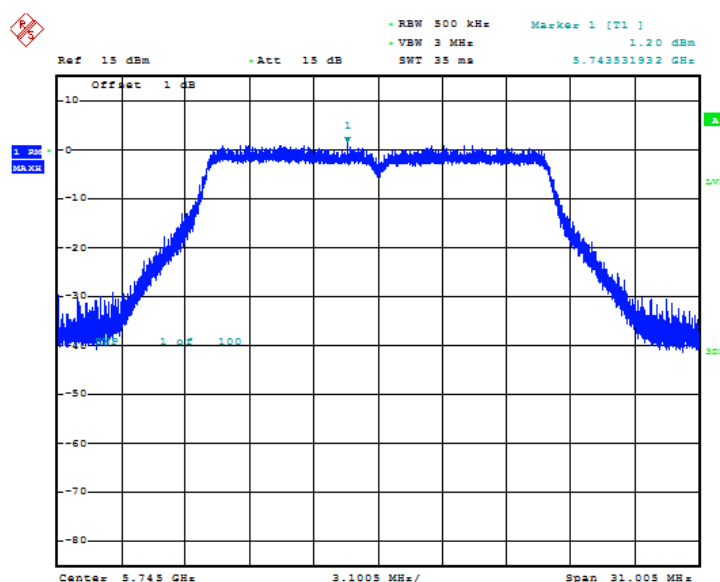
Measurement Limit:

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

Measurement Results:

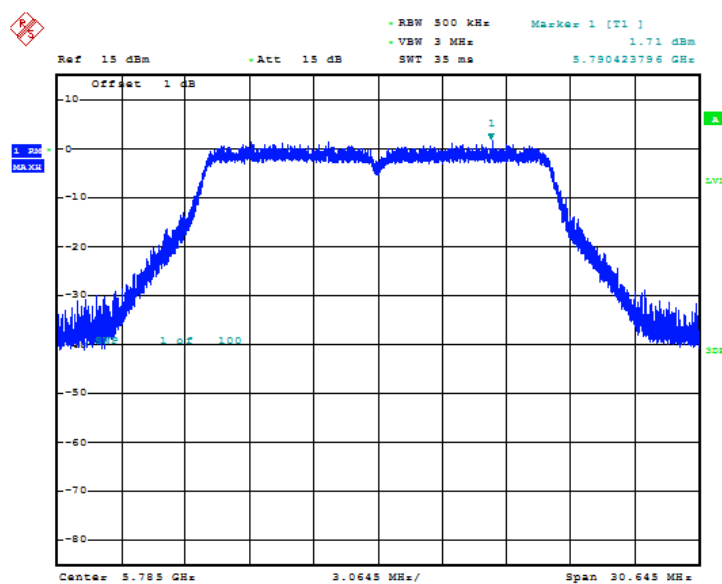
Mode	Channel	Power Spectral Density (dBm/500kHz)		Conclusion
802.11a	149	Fig.1	1.953	P
	157	Fig.2	2.458	P
	165	Fig.3	1.823	P
802.11n HT20	149	Fig.4	1.922	P
	157	Fig.5	2.150	P
	165	Fig.6	1.500	P
802.11n HT40	151	Fig.7	-0.676	P
	159	Fig.8	-0.186	P
802.11ac VHT20	149	Fig.9	2.245	P
	157	Fig.10	2.263	P
	165	Fig.11	1.904	P
802.11ac HT40	151	Fig.12	-0.317	P
	159	Fig.13	-0.106	P

Conclusion: PASS



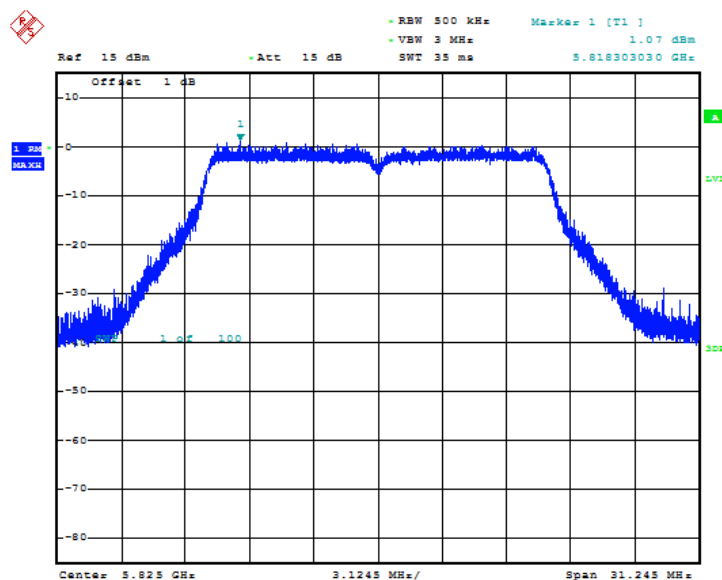
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Fig. 1 Power Spectral Density (802.11a, Ch 149)



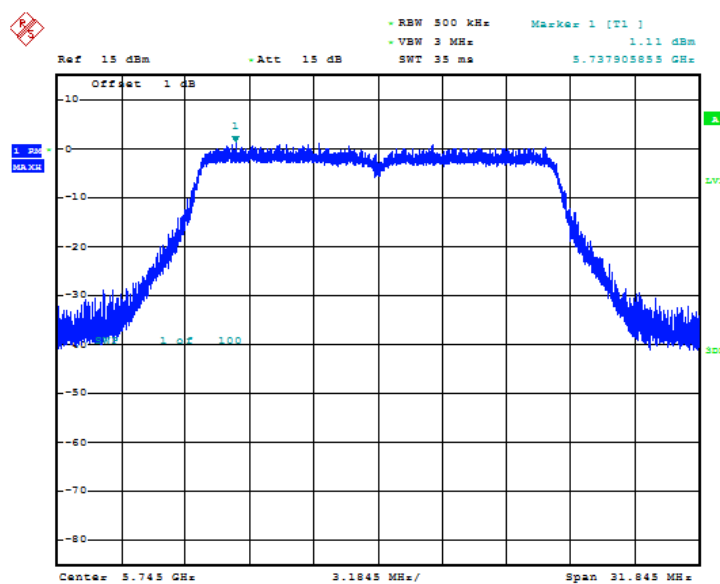
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Fig. 2 Power Spectral Density (802.11a, Ch 157)



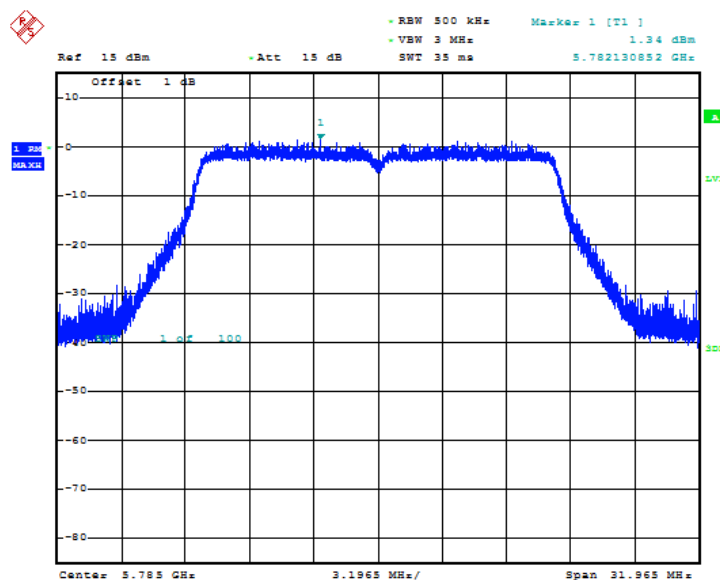
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Fig. 3 Power Spectral Density (802.11a, Ch 165)



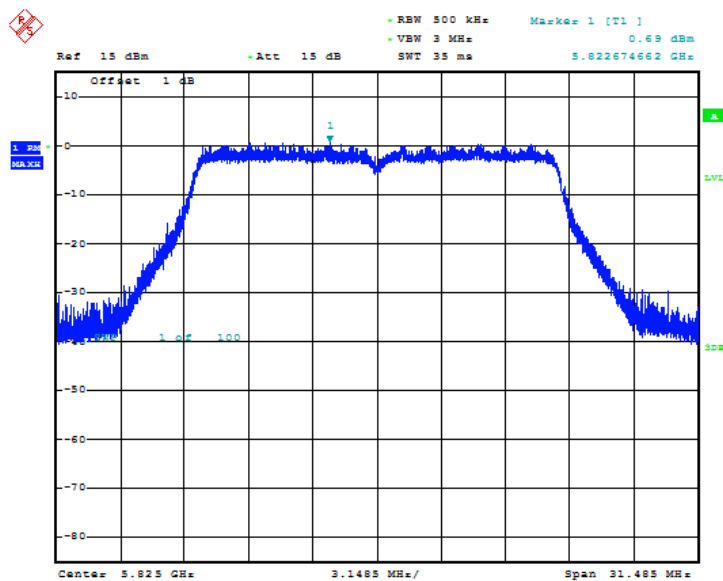
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Fig. 4 Power Spectral Density (802.11n-HT20, Ch 149)



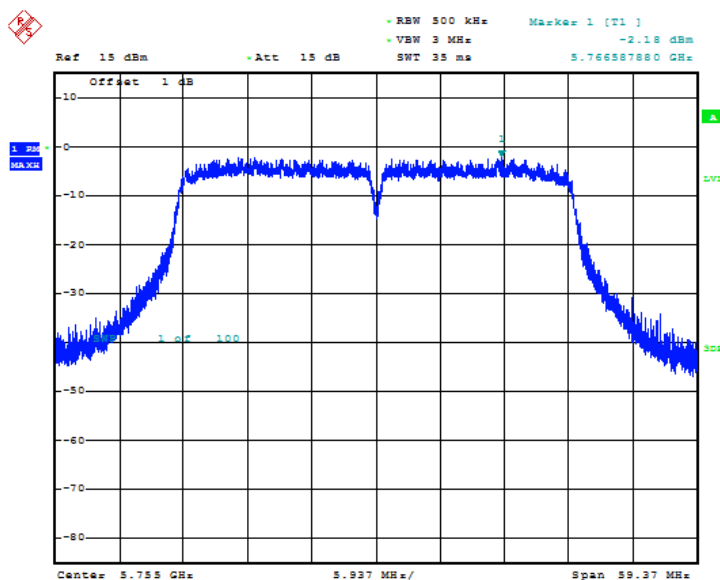
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Fig. 5 Power Spectral Density (802.11n-HT20, Ch 157)



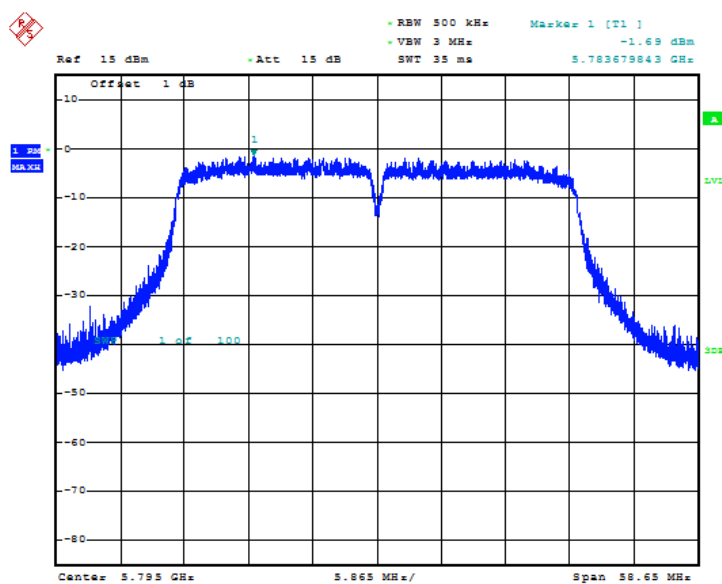
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Fig. 6 Power Spectral Density (802.11n-HT20, Ch 165)



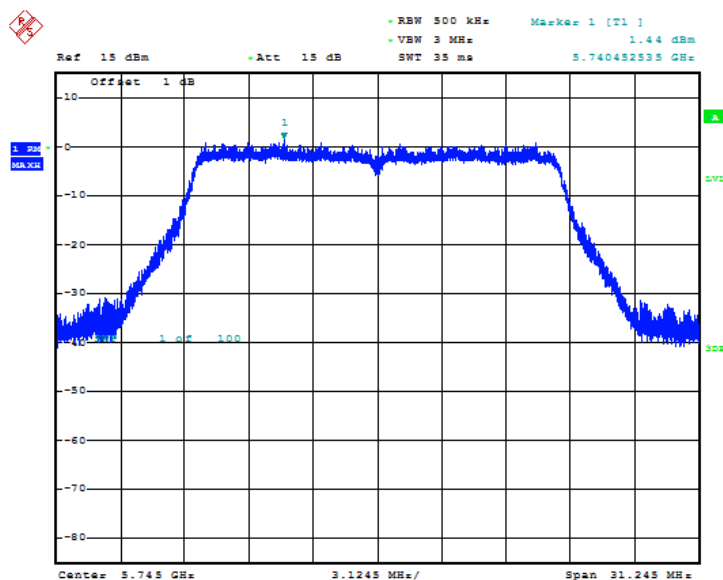
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Fig. 7 Power Spectral Density (802.11n-HT40, Ch 151)



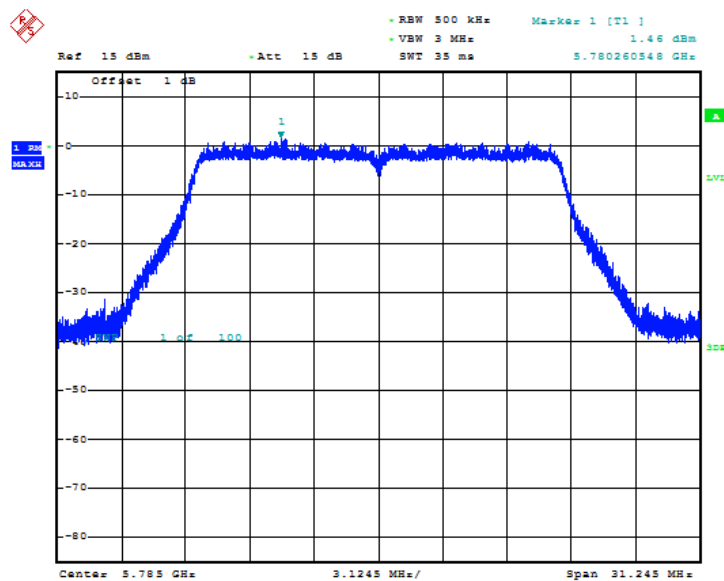
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Fig. 8 Power Spectral Density (802.11n-HT40, Ch 159)



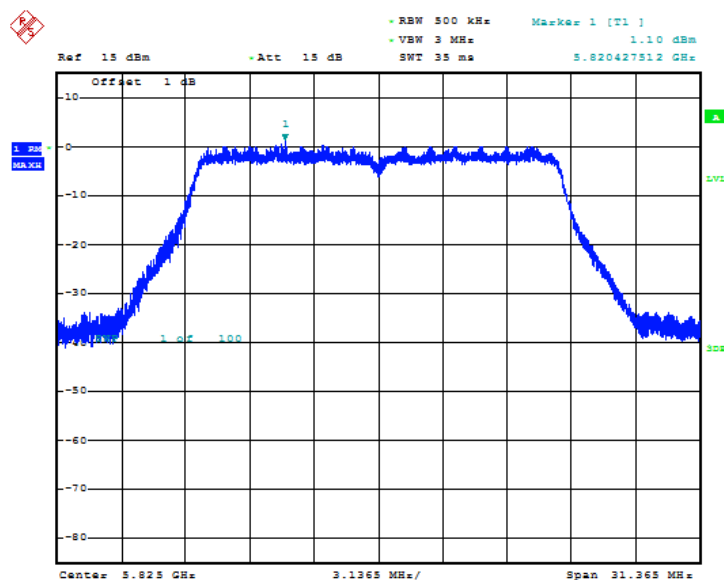
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Fig. 9 Power Spectral Density (802.11ac-VHT20, Ch 149)



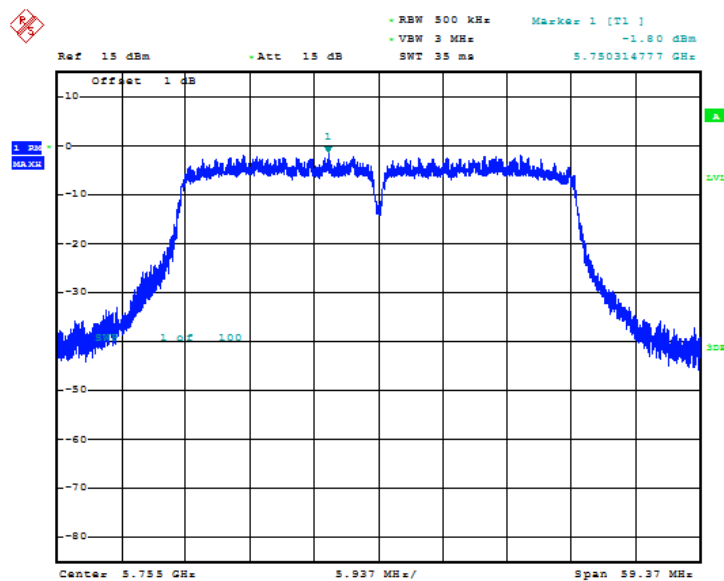
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Fig. 10 Power Spectral Density (802.11ac-VHT20, Ch 157)



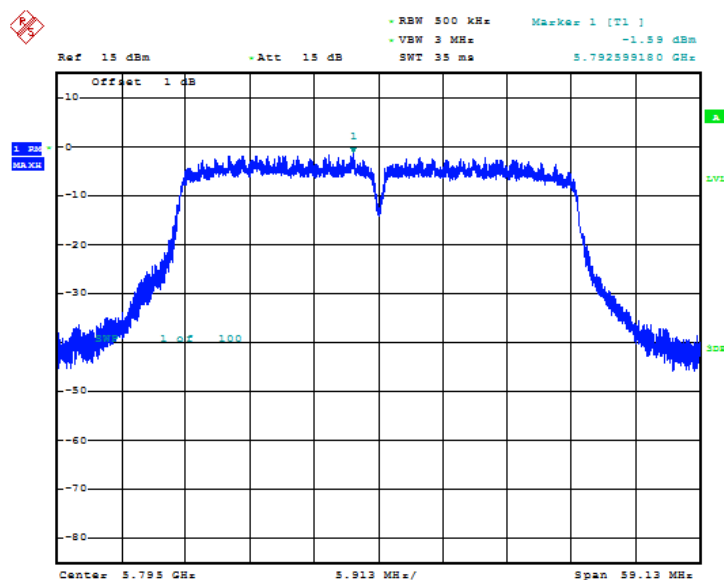
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Fig. 11 Power Spectral Density (802.11ac-VHT20, Ch 165)



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Fig. 12 Power Spectral Density (802.11ac-VHT40, Ch 151)



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Fig. 13 Power Spectral Density (802.11ac-VHT40, Ch 159)

ANNEX A.4. Occupied 26dB Bandwidth(conducted)

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Result:

Mode	Data Rate	Channel	Occupied 6dB Bandwidth (MHz)		conclusion
802.11a	6Mbps	149	Fig.14	20.67	P
		157	Fig.15	20.43	P
		165	Fig.16	20.83	P
802.11n HT20	MCS0	149	Fig.17	21.23	P
		157	Fig.18	21.31	P
		165	Fig.19	20.99	P
802.11n HT40	MCS0	151	Fig.20	39.58	P
		159	Fig.21	39.10	P
802.11ac VHT20	MCS0	149	Fig.22	20.83	P
		157	Fig.23	20.83	P
		165	Fig.24	20.91	P
802.11ac VHT40	MCS0	151	Fig.25	39.58	P
		159	Fig.26	39.42	P

Conclusion: PASS

Test graphs as below:

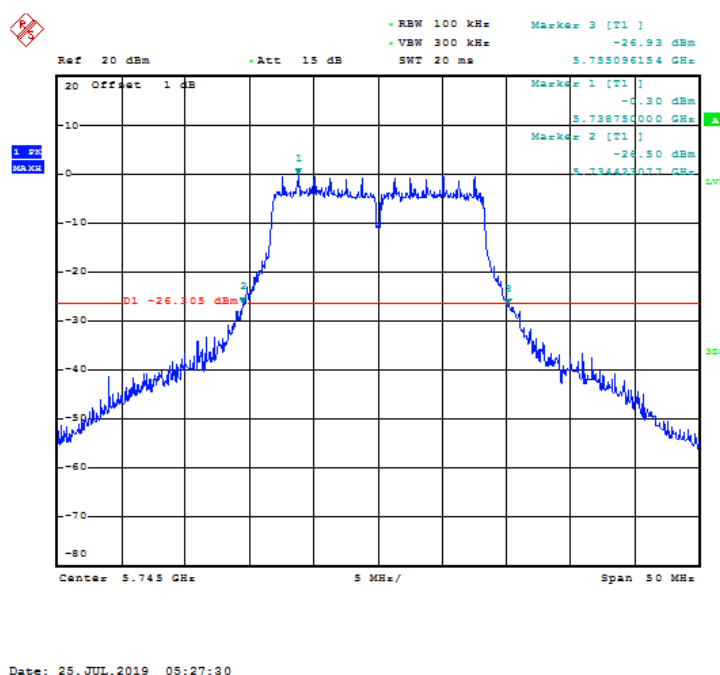
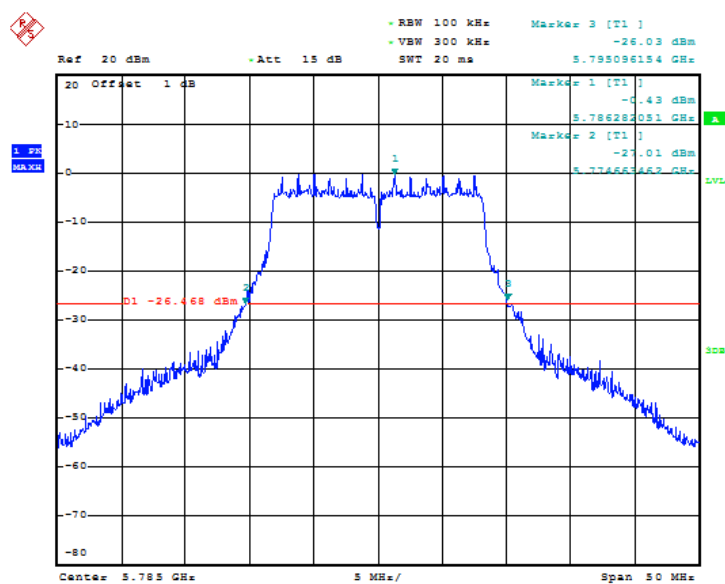
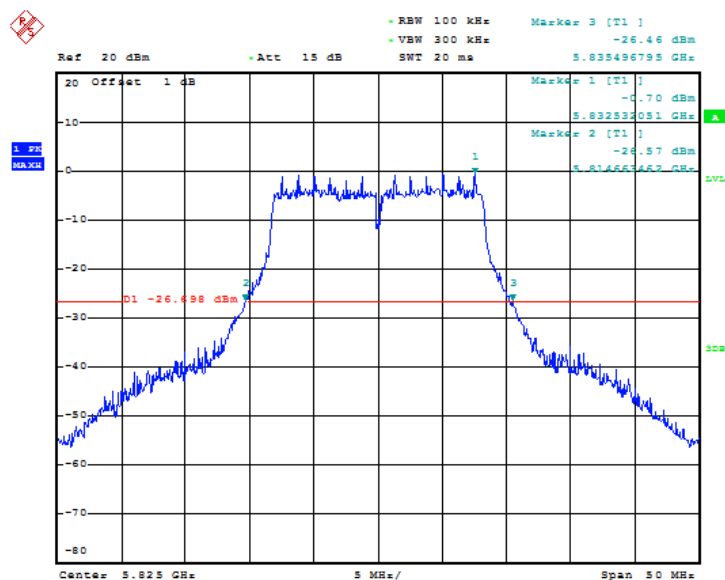


Fig. 14 Occupied 26dB Bandwidth (802.11a, Ch 149)



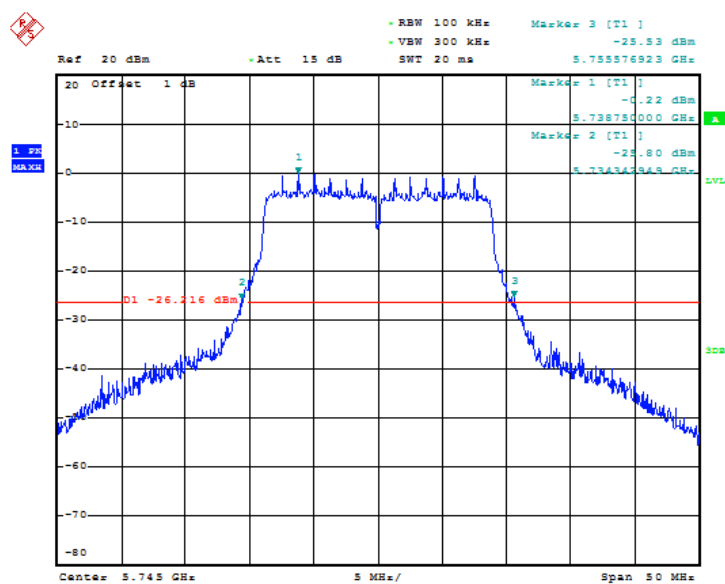
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Fig. 15 Occupied 26dB Bandwidth (802.11a, Ch 157)



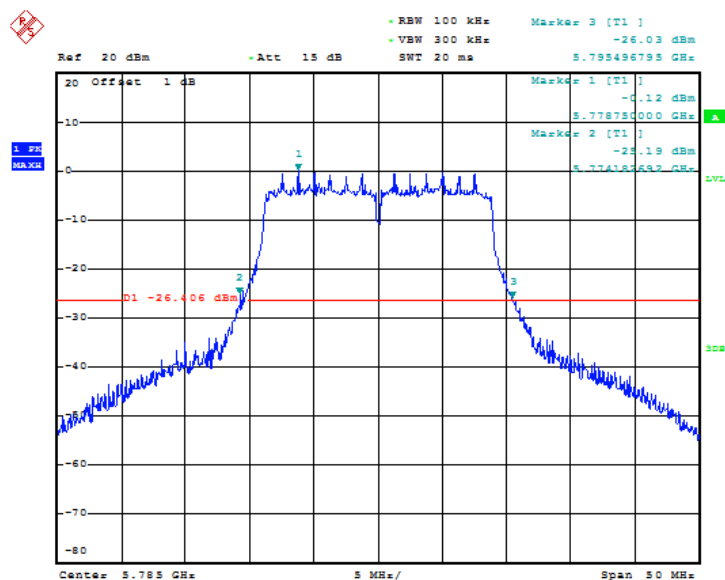
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Fig. 16 Occupied 26dB Bandwidth (802.11a, Ch 165)



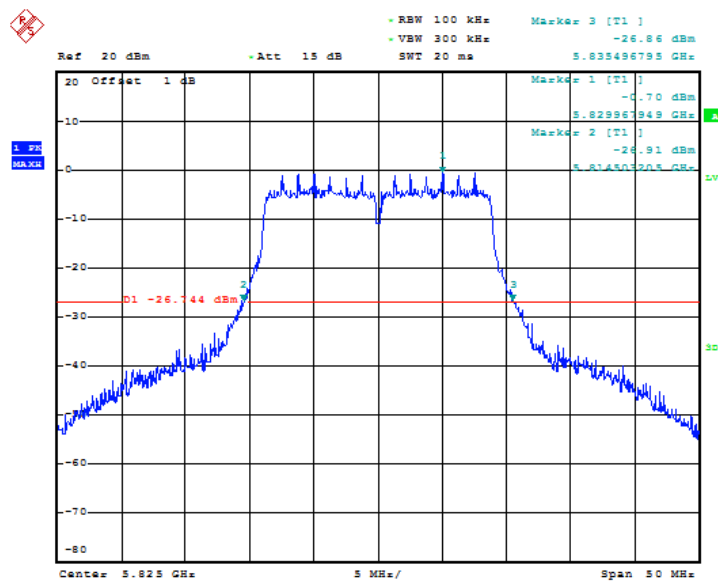
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Fig. 17 Occupied 26dB Bandwidth (802.11n-HT20, Ch 149)



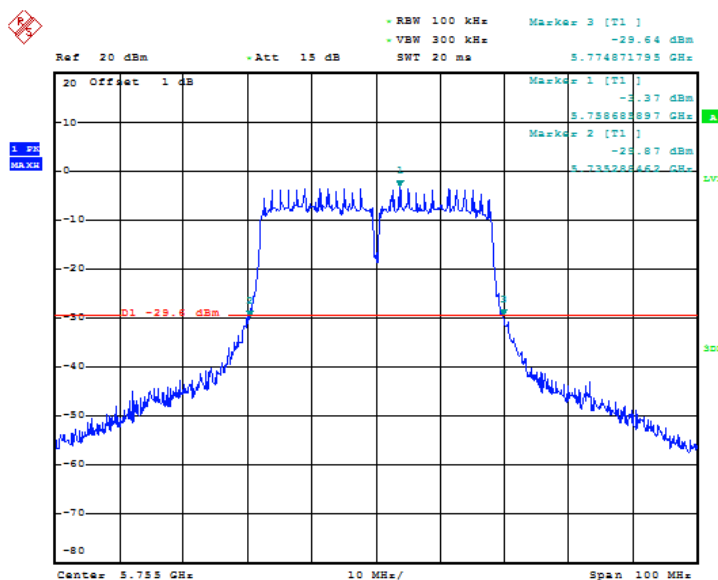
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Fig. 18 Occupied 26dB Bandwidth (802.11n-HT20, Ch 157)



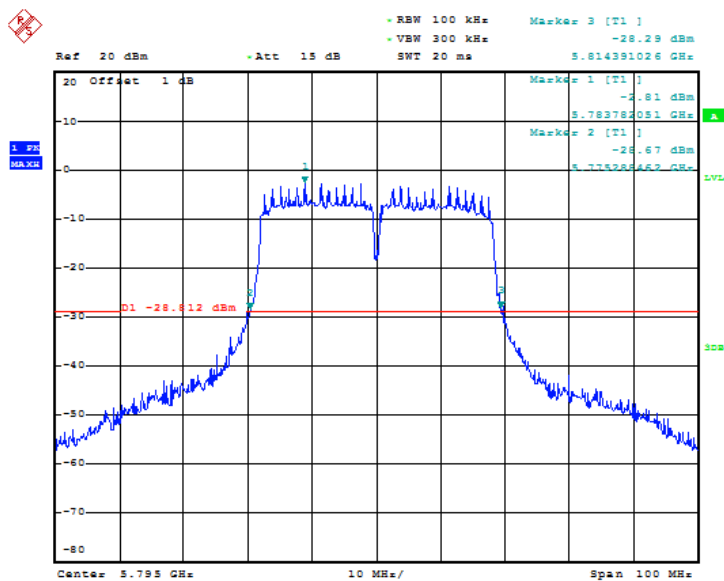
Date: 25.JUL.2019 06:00:56

Fig. 19 Occupied 26dB Bandwidth (802.11n-HT20, Ch 165)



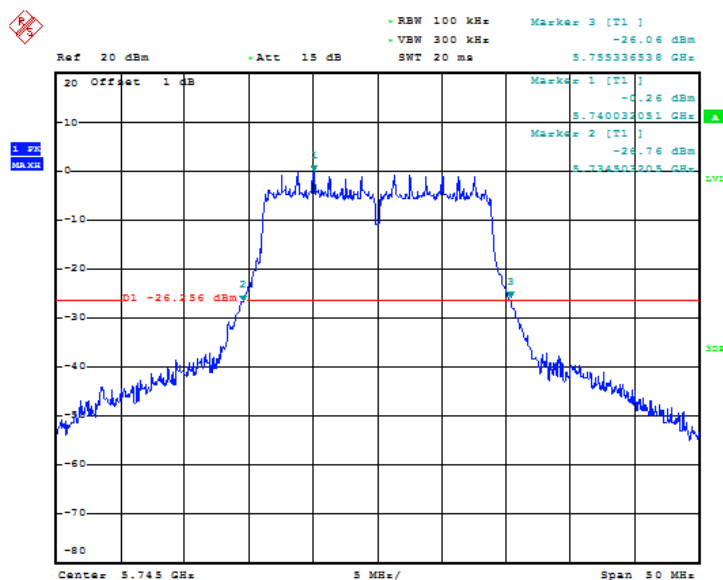
Date: 25.JUL.2019 06:02:29

Fig. 20 Occupied 26dB Bandwidth (802.11n-HT40, Ch 151)



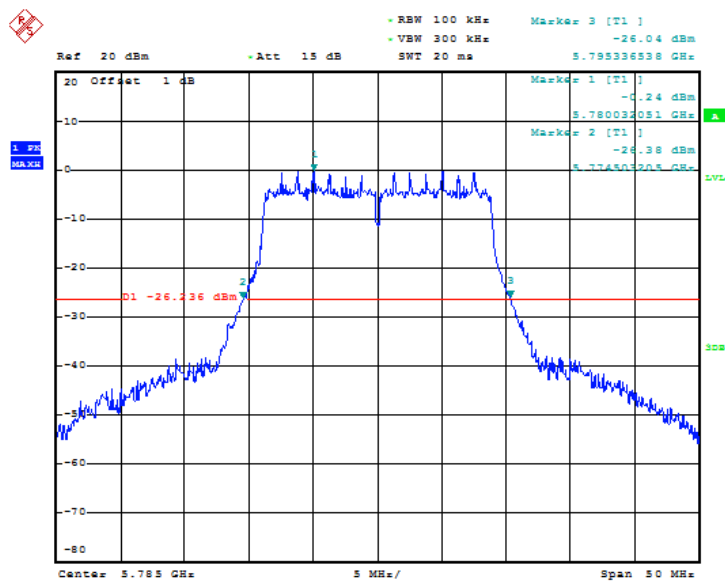
Date: 25.JUL.2019 06:03:31

Fig. 21 Occupied 26dB Bandwidth (802.11n-HT40, Ch 159)



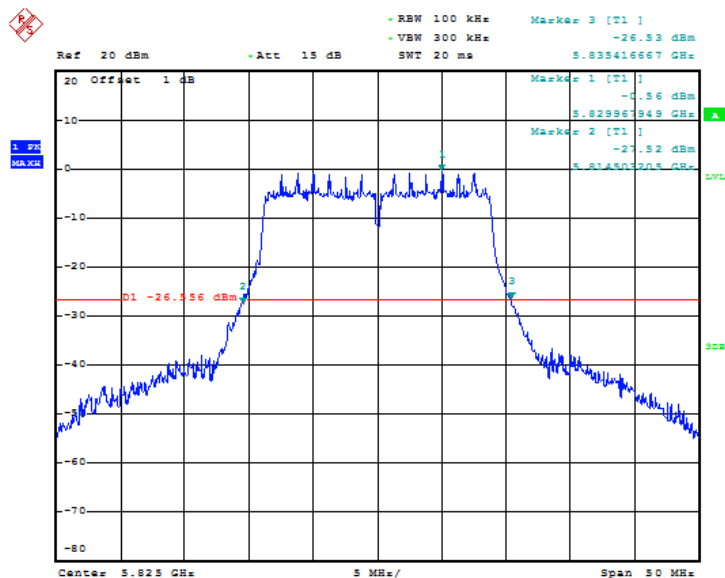
Date: 25.JUL.2019 06:07:34

Fig. 22 Occupied 26dB Bandwidth (802.11ac-VHT20, Ch 149)



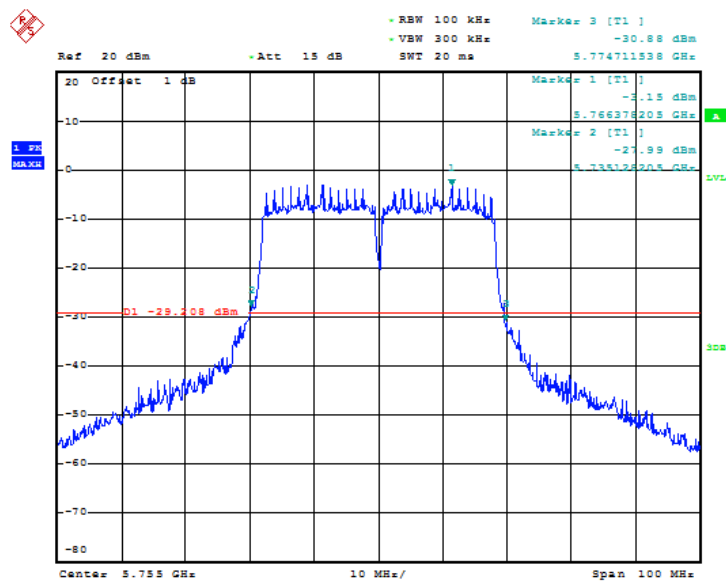
Date: 25.JUL.2019 06:08:21

Fig. 23 Occupied 26dB Bandwidth (802.11ac-VHT20,Ch 157)



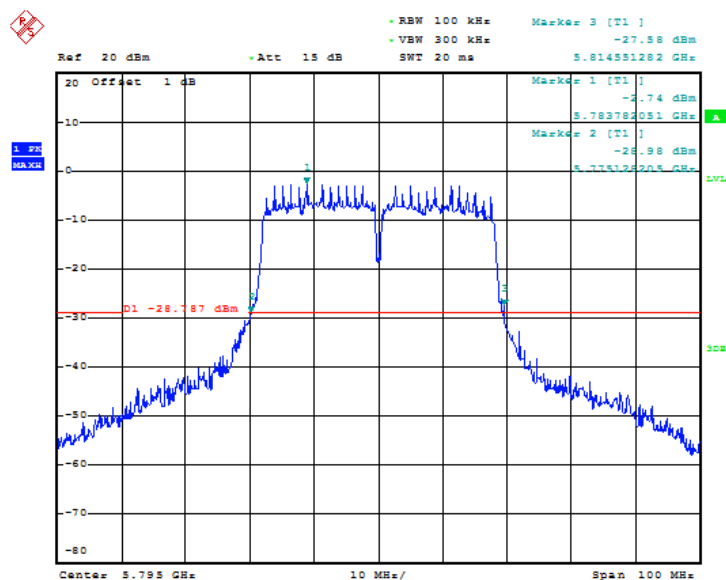
Date: 25.JUL.2019 06:09:08

Fig. 24 Occupied 26dB Bandwidth (802.11ac-VHT20, Ch 165)



Date: 25.JUL.2019 06:10:30

Fig. 25 Occupied 26dB Bandwidth (802.11ac-VHT40, Ch 151)



Date: 25.JUL.2019 06:11:24

Fig. 26 Occupied 26dB Bandwidth (802.11ac-VHT40, Ch 159)

ANNEX A.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)
0.009-0.490	2400/F(kHz)	/
0.490-1.705	24000/F(kHz)	/
1.705-30	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

A.5.1 Transmitter Spurious Emission – Conducted

Modulation type and data rate tested (Only worst case result is given below):

Mode	Data rate	Channel
802.11a	6Mbps	149(5745MHz)
802.11n-HT20	MCS0	149(5745MHz)
802.11n-HT40	MCS0	151(5755MHz)
802.11ac-HT20	MCS0	149(5745MHz)
802.11ac-HT40	MCS0	151(5755MHz)

Measurement Results:

802.11a mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11a	149(5745MHz)	30 MHz ~ 1 GHz	Fig.27	P
		1 GHz ~ 5.7 GHz	Fig.28	P
		5.9 GHz ~ 40 GHz	Fig.29	P

802.11n-HT20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n HT20	149(5745MHz)	30 MHz ~ 1 GHz	Fig.30	P
		1 GHz ~ 5.7 GHz	Fig.31	P
		5.9 GHz ~ 40 GHz	Fig.32	P

802.11n-HT40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n HT40	151(5755MHz)	30 MHz ~ 1 GHz	Fig.33	P
		1 GHz ~ 5.7 GHz	Fig.34	P
		5.9 GHz ~ 40 GHz	Fig.35	P

802.11ac-HT20 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11ac HT20	149(5745MHz)	30 MHz ~ 1 GHz	Fig.36	P
		1 GHz ~ 5.7 GHz	Fig.37	P
		5.9 GHz ~ 40 GHz	Fig.38	P

802.11ac-HT40 mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11ac HT40	151(5755MHz)	30 MHz ~ 1 GHz	Fig.39	P
		1 GHz ~ 5.7 GHz	Fig.40	P
		5.9 GHz ~ 40 GHz	Fig.41	P

Conclusion: PASS

Test graphs as below:

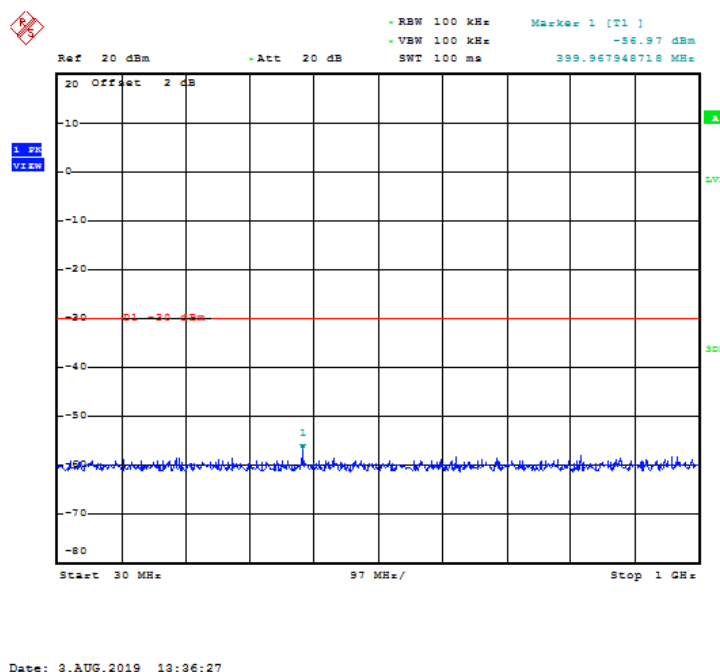
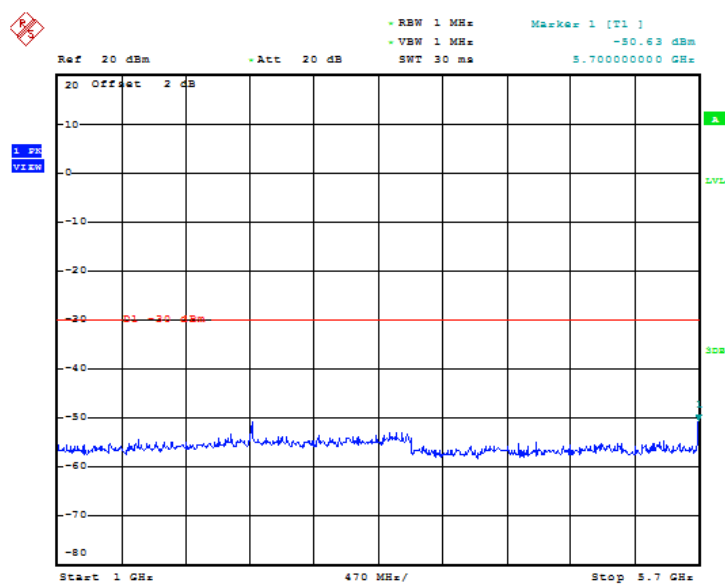
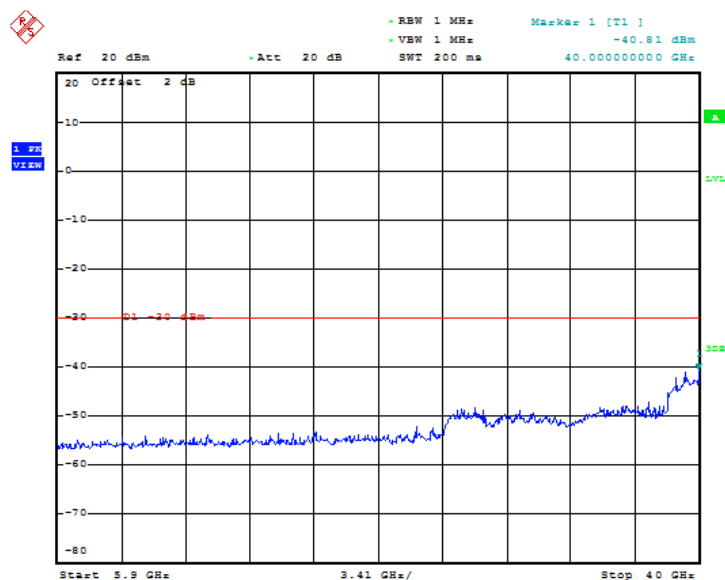


Fig. 27 Conducted Spurious Emission (802.11a, Ch149, 30 MHz-1 GHz)



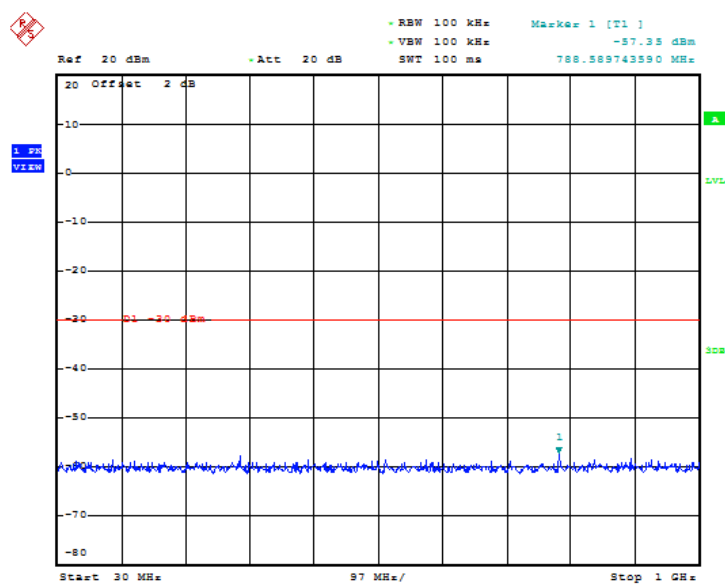
Date: 3.AUG.2019 13:26:56

Fig. 28 Conducted Spurious Emission (802.11a, Ch149, 1 GHz -5.7 GHz)



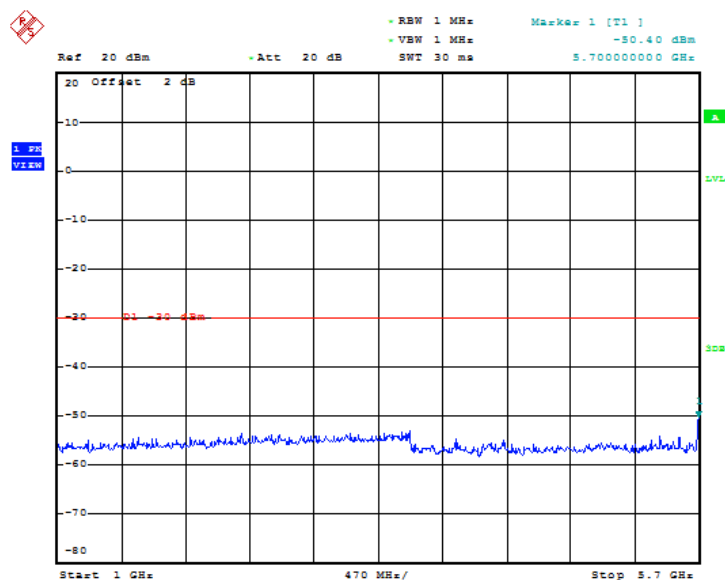
Date: 3.AUG.2019 13:27:26

Fig. 29 Conducted Spurious Emission (802.11a, Ch149, 5.9 GHz-40 GHz)



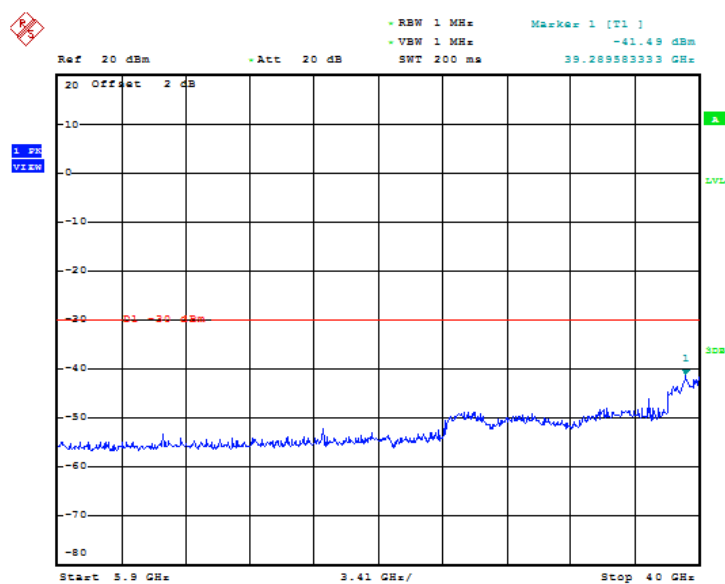
Date: 3.AUG.2019 13:44:23

Fig. 30 Conducted Spurious Emission (802.11n-HT20, Ch149, 30 MHz-1 GHz)



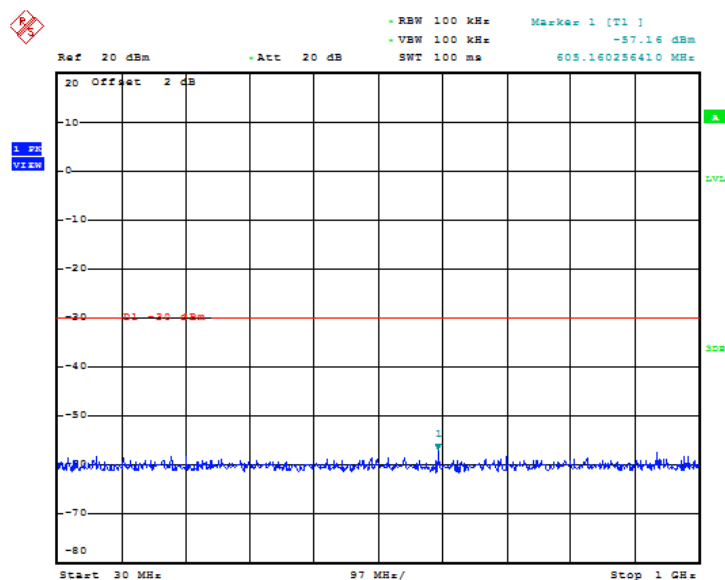
Date: 3.AUG.2019 13:44:53

Fig. 31 Conducted Spurious Emission (802.11n-HT20, Ch149, 1 GHz-5.7 GHz)



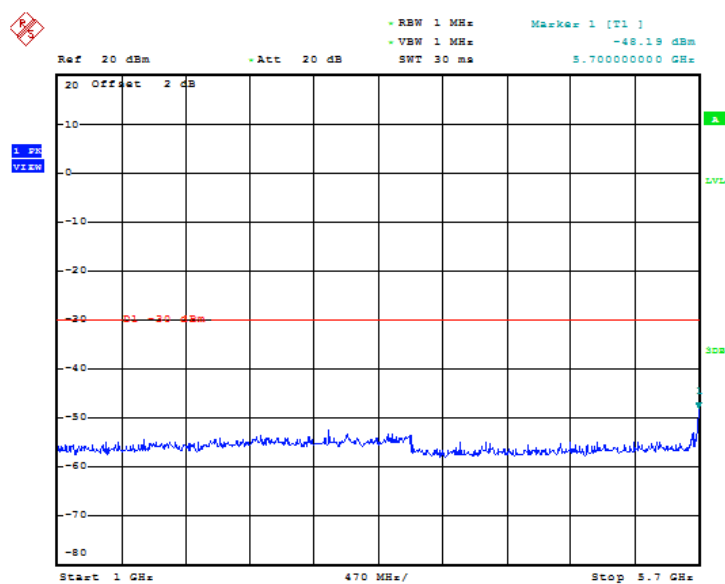
Date: 3.AUG.2019 13:47:56

Fig. 32 Conducted Spurious Emission (802.11n-HT20, Ch149, 5.9 GHz-40 GHz)



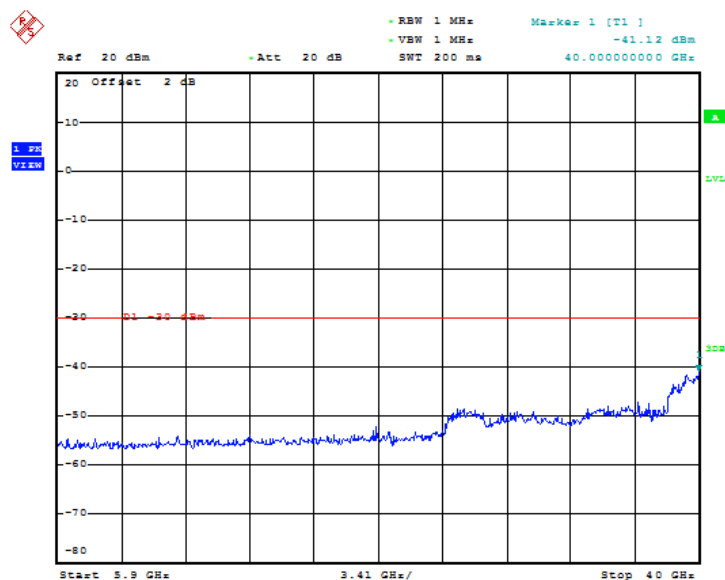
Date: 3.AUG.2019 13:52:25

Fig. 33 Conducted Spurious Emission (802.11n-HT40, Ch151, 30 MHz-1 GHz)



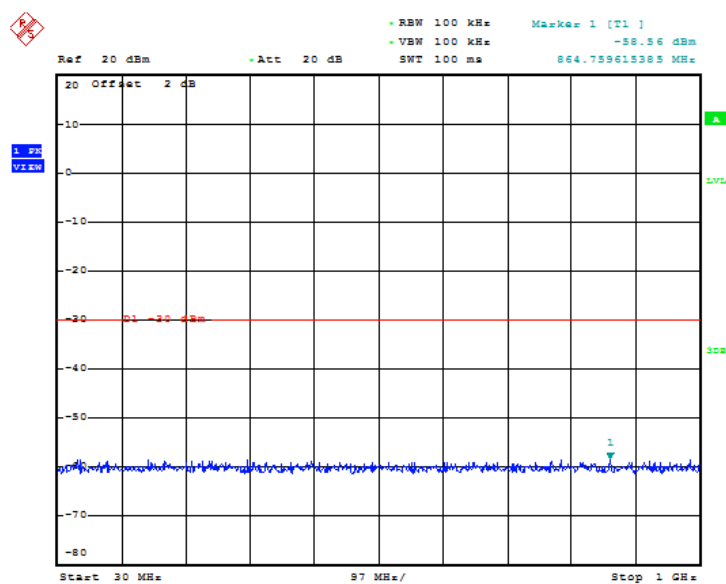
Date: 3.AUG.2019 14:06:42

Fig. 34 Conducted Spurious Emission (802.11n-HT40, Ch151, 1 GHz -5.7 GHz)



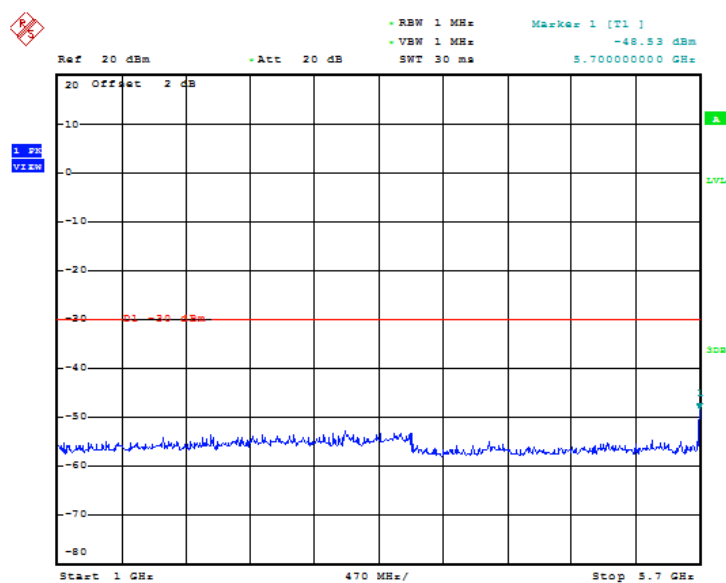
Date: 3.AUG.2019 13:53:24

Fig. 35 Conducted Spurious Emission (802.11n-HT40, Ch151, 5.9 GHz-40 GHz)



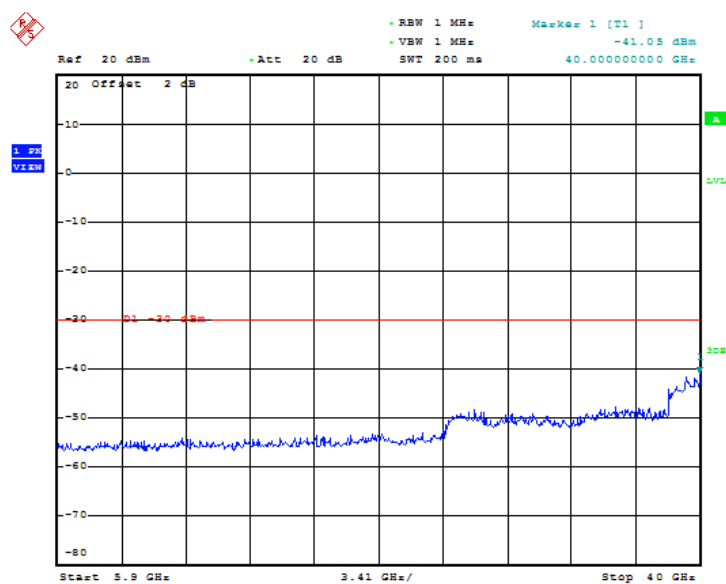
Date: 3.AUG.2019 13:58:11

Fig. 36 Conducted Spurious Emission (802.11ac-HT20, Ch149, 30 MHz-1 GHz)



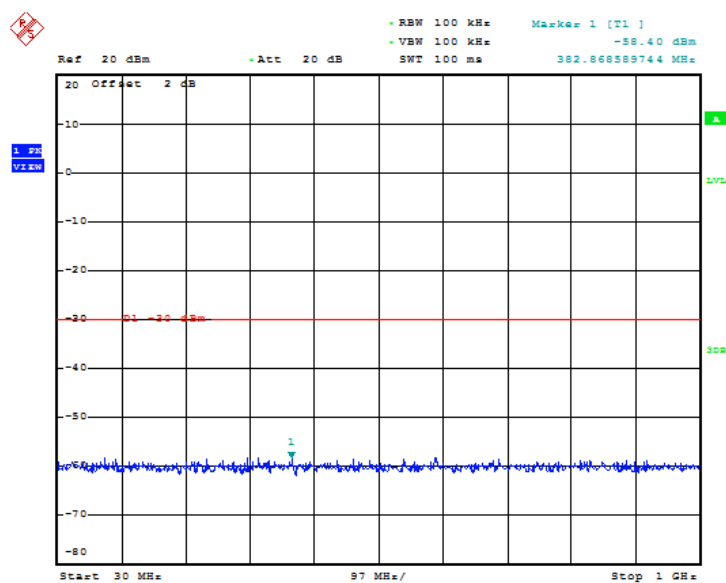
Date: 3.AUG.2019 13:58:41

Fig. 37 Conducted Spurious Emission (802.11ac-HT20, Ch149, 1 GHz -5.7 GHz)



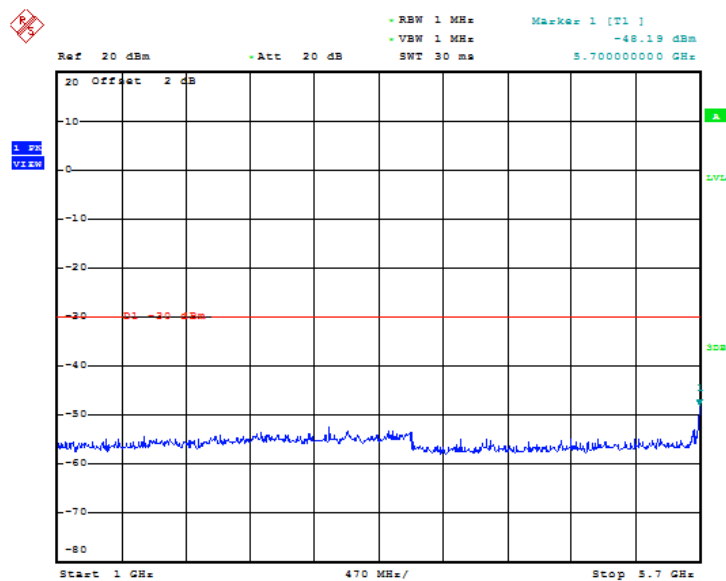
Date: 3.AUG.2019 13:59:11

Fig. 38 Conducted Spurious Emission (802.11ac-HT20, Ch149, 5.9 GHz-40 GHz)



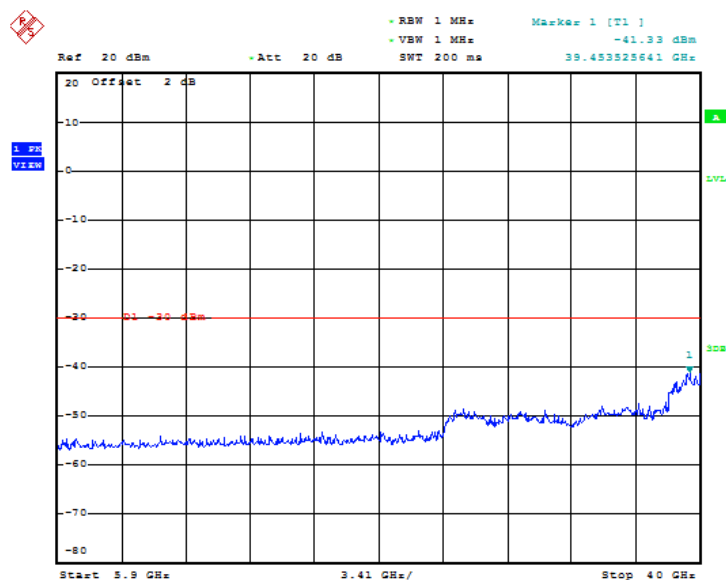
Date: 3.AUG.2019 14:06:12

Fig. 39 Conducted Spurious Emission (802.11ac-HT40, Ch151, 30 MHz-1 GHz)



Date: 3.AUG.2019 14:06:42

Fig. 40 Conducted Spurious Emission (802.11ac-HT40, Ch151, 1 GHz -5.7 GHz)



Date: 3.AUG.2019 14:07:12

Fig. 41 Conducted Spurious Emission (802.11ac-HT40, Ch151, 5.9 GHz-40 GHz)

A.5.2 Transmitter Spurious Emission - Radiated

Modulation type and data rate tested (Only worst case result is given below):

Mode	Data rate	Channel
802.11a	6Mbps	165(5825MHz)
802.11n-HT20	MCS0	157(5785MHz)
802.11n-HT40	MCS0	151(5755MHz)
802.11ac-HT20	MCS0	165(5825MHz)
802.11ac-HT40	MCS0	151(5755MHz)

Measurement Uncertainty:

Frequency Range	Uncertainty(dB)
$f \leq 1\text{GHz}$	3.9
$f > 1\text{GHz}$	4.3

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	165(5825MHz)	30 MHz ~1 GHz	Fig.42	P
		1 GHz ~ 8 GHz	Fig.43	P
		8 GHz ~ 18 GHz	Fig.44	P
		18 GHz ~ 26.5 GHz	Fig.45	P
		26.5 GHz~ 40 GHz	Fig.46	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	157(5785MHz)	30 MHz ~1 GHz	Fig.47	P
		1 GHz ~ 8 GHz	Fig.48	P
		8 GHz ~ 18 GHz	Fig.49	P
		18 GHz ~ 26.5 GHz	Fig.50	P
		26.5 GHz~ 40 GHz	Fig.51	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	151(5755MHz)	30 MHz ~1 GHz	Fig.52	P
		1 GHz ~ 8 GHz	Fig.53	P
		8 GHz ~ 18 GHz	Fig.54	P
		18 GHz ~ 26.5 GHz	Fig.55	P
		26.5 GHz~ 40 GHz	Fig.56	P

802.11ac-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT20)	165(5825MHz)	30 MHz ~1 GHz	Fig.57	P
		1 GHz ~ 8 GHz	Fig.58	P
		8 GHz ~ 18 GHz	Fig.59	P

		18 GHz ~ 26.5 GHz	Fig.60	P
		26.5 GHz~ 40 GHz	Fig.61	P

802.11ac-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac (HT40)	151(5755MHz)	30 MHz ~1 GHz	Fig.62	P
		1 GHz ~ 8 GHz	Fig.63	P
		8 GHz ~ 18 GHz	Fig.64	P
		18 GHz ~ 26.5 GHz	Fig.65	P
		26.5 GHz~ 40 GHz	Fig.66	P

Radiated Spurious Emission (9kHz-30MHz)

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	151(5755MHz)	9kHz ~ 30 MHz	Fig.67	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.

802.11a

Channel 165 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
34.5	15.22	-27.3	42.52	V
67.3	25.49	-28.9	54.39	V
102.9	24.69	-27.4	52.09	H
233.2	30.56	-27.2	57.76	V
390.2	25.16	-23.6	48.76	V
480.0	29.99	-22.1	52.09	H

Channel 165 (1GHz ~ 8GHz) (Peak)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
6748.8	47.51	6.7	40.81	H
6936.0	45.81	7	38.81	V
7090.6	47.74	7.3	40.44	V

7362.4	47.38	7.3	40.08	V
7572.0	46.6	7.6	39	V
7841.8	48.83	8.5	40.33	V

Channel 165 (8GHz ~ 18GHz) (Peak)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
11648.4	69.6	15.2	54.4	V
12491.6	53.41	16.5	36.91	H
13695.2	54.54	18.8	35.74	V
15135.0	54.77	20.6	34.17	V
16122.2	56.14	22.4	33.74	H
17536.6	57.75	24.6	33.15	H

Channel 165 (8GHz ~ 18GHz) (Average)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
11648.4	50.75	15.2	35.55	V
13695.2	42.68	18.8	23.88	V
15135.0	42.52	20.6	21.92	V
16122.2	43.84	22.4	21.44	H
17536.6	44.87	24.6	20.27	H

Channel 165 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
19330.2	39.35	-5.7	45.05	V
20612.9	42.23	-4.4	46.63	V
21990.8	43.51	-3.4	46.91	H
23678.8	44.85	-2.7	47.55	V
24872.2	45.29	-2.3	47.59	H
26075.8	47.17	-2	49.17	H

Channel 165 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
28431.8	43.78	-1.2	44.98	V
30856.4	45.88	0.3	45.58	H
32911.2	44.68	0.9	43.78	V
34934.8	46.11	-0.2	46.31	V
36881.5	46.77	2	44.77	H
39327.7	50.06	4	46.06	H

802.11n-HT20

Channel 157 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
34.5	14.3	-27.3	41.6	V
40.7	22.04	-25.9	47.94	V
133.2	30.24	-30.4	60.64	H
232.4	33.17	-27.2	60.37	H
480.0	29.18	-22.1	51.28	H
601.6	23.43	-19.2	42.63	H

Channel 157 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
6030.8	45.39	4.6	40.79	H
6454.8	46.37	5.9	40.47	V
6918.6	46.68	7	39.68	V
7228.0	46.61	7.3	39.31	H
7551.0	46.18	7.5	38.68	V
7862.0	47.62	8.6	39.02	V

Channel 157 (8GHz ~ 18GHz) (Peak)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
11579.2	72.46	15.2	57.26	H
12518.0	53.61	16.6	37.01	V
13733.0	54.95	18.8	36.15	H
14445.4	54.25	19.1	35.15	H
15711.0	54.9	21.9	33	H
16470.0	55.36	22.8	32.56	V

Channel 157 (8GHz ~ 18GHz) (Average)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
11579.2	53.77	15.2	38.57	H
13733.0	42.63	18.8	23.83	H
14445.4	41.68	19.1	22.58	H
15711.0	43.53	21.9	21.63	H
16470.0	42.92	22.8	20.12	V

Channel 157 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
19222.3	40.35	-5.7	46.05	V
20468.4	41.08	-4.3	45.38	V
21948.2	42.06	-3.4	45.46	H
23025.2	44.18	-3	47.18	V
24075.0	43.71	-2.8	46.51	V
25672.1	44.45	-2.4	46.85	V

Channel 157 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
19180.6	40.06	-5.6	45.66	V
21210.4	42.53	-3.9	46.43	V

22160.8	43.3	-3	46.3	V
23370.3	44.13	-2.6	46.73	H
24817.8	43.55	-2.3	45.85	V
26063.1	47.1	-2	49.1	H

802.11n-HT40

Channel 151 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
34.1	18.09	-27.3	45.39	V
74.8	20.66	-30.5	51.16	V
128.4	19.41	-30.1	49.51	H
241.9	30.61	-26.9	57.51	V
478.5	17.99	-22.2	40.19	V
694.3	23.14	-17.5	40.64	V

Channel 151 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2995.6	42.62	-1.3	43.92	H
5991.4	48.89	4.6	44.29	H
6500.4	45.92	6	39.92	H
6810.8	46.1	6.7	39.4	H
7472.4	45.85	7.3	38.55	H
7830.0	47.56	8.5	39.06	H

Channel 151 (8GHz ~ 18GHz) (Peak)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
10075.4	49.52	11.5	38.02	H
11503.2	70.06	15.1	54.96	V
12624.2	53.72	16.8	36.92	V
13773.6	54.46	18.8	35.66	H
15025.6	55.12	20.3	34.82	H

16315.6	56.05	22.7	33.35	H
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Channel 151 (8GHz ~ 18GHz) (Average)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
11503.2	50.25	15.1	35.15	V
13773.6	42.4	18.8	23.6	H
15025.6	42.31	20.3	22.01	H
16315.6	43.6	22.7	20.9	H

Channel 151 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
19241.0	39.46	-5.7	45.16	V
20750.6	41.43	-4.3	45.73	H
22093.6	43.62	-3.1	46.72	V
23475.7	44.47	-2.7	47.17	V
24879.0	44.61	-2.3	46.91	H
26011.2	46.36	-1.9	48.26	H

Channel 151 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
28039.0	44.85	-0.2	45.05	H
30861.8	45.45	0.3	45.15	V
33428.2	45.18	1.2	43.98	V
35006.4	46.24	-0.4	46.64	V
36955.8	47.05	1.6	45.45	H
38621.6	47.91	2.9	45.01	V

802.11ac-HT20

Channel 165 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
34.1	18.92	-27.3	46.22	V
74.0	19.68	-30.4	50.08	V
128.4	20.36	-30.1	50.46	H
168.0	23.62	-29.6	53.22	H
243.4	30.97	-26.9	57.87	V
477.6	23.71	-22.2	45.91	V

Channel 165 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
2992.2	42.82	-1.3	44.12	H
5991.6	48.61	4.6	44.01	H
6427.4	46.69	5.8	40.89	H
6762.6	47	6.7	40.3	H
7066.4	46.4	7.3	39.1	H
7495.6	45.66	7.4	38.26	H

Channel 165 (8GHz ~ 18GHz) (Peak)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
11647.6	62.63	15.2	47.43	V
12545.0	53.07	16.6	36.47	H
13702.4	54.53	18.8	35.73	V
14916.6	54.66	20.1	34.56	V
16156.6	56.36	22.4	33.96	H
17111.2	57.41	24	33.41	H

Channel 165 (8GHz ~ 18GHz) (Average)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
11647.6	44.74	15.2	29.54	V

13702.4	42.51	18.8	23.71	V
14916.6	42.35	20.1	22.25	V
16156.6	43.87	22.4	21.47	H
17111.2	44.98	24	20.98	H

Channel 165 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
19007.2	39.15	-5.5	44.65	H
20162.4	40.67	-4.8	45.47	V
21167.1	42.28	-4	46.28	V
22236.4	43.46	-3	46.46	V
23523.3	44.03	-2.8	46.83	H
24936.0	46.38	-2.4	48.78	H

Channel 165 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
28437.2	44.19	-1.2	45.39	V
30379.9	44.26	-0.6	44.86	V
32560.2	42.56	0.4	42.16	H
34486.6	46.99	1	45.99	V
36953.0	46.77	1.6	45.17	V
38893.0	48.91	3.7	45.21	V

802.11ac-HT40

Channel 151 (30MHz ~ 1GHz)

Frequency (MHz)	Result (dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Polarity
33.9	15.77	-27.3	43.07	V
50.5	20.12	-25.1	45.22	V
74.4	20.38	-30.4	50.78	V
128.0	18	-30	48	H
244.2	31.14	-26.9	58.04	V

481.0	22.77	-22.1	44.87	V
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Channel 151 (1GHz ~ 8GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
2996.2	44.86	-1.3	46.16	H
5991.6	50.81	4.6	46.21	H
6491.8	46.8	6	40.8	H
6758.0	47.04	6.7	40.34	H
7129.6	46.21	7.3	38.91	H
7687.4	46.96	8.1	38.86	H

Channel 151 (8GHz ~ 18GHz) (Peak)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
11503.0	70.07	15.1	54.97	V
12512.4	54.21	16.6	37.61	V
13693.0	55.09	18.8	36.29	H
15135.0	54.75	20.6	34.15	H
15865.2	56.13	21.9	34.23	V
17115.0	57.25	24	33.25	H

Channel 151 (8GHz ~ 18GHz) (Average)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
11503.0	51.43	15.1	36.33	V
12512.4	41.27	16.6	24.67	V
13693.0	42.87	18.8	24.07	H
15135.0	42.39	20.6	21.79	H
15865.2	43.61	21.9	21.71	V
17115.0	44.88	24	20.88	H

Channel 151 (18GHz ~ 26.5GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
19456.9	40.13	-5.4	45.53	V
20706.4	40.83	-4.4	45.23	H
21689.8	44.36	-3.4	47.76	V
22511.8	44.2	-3.1	47.3	V
23491.8	44.41	-2.7	47.11	H
24727.8	44.89	-2.2	47.09	H

Channel 151 (26.5GHz ~ 40GHz)

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	PMea (dB μ V/m)	Polarity
27755.5	43.66	-0.5	44.16	H
29683.3	43.27	-1	44.27	V
31924.3	44.29	0.4	43.89	V
34416.4	47.37	1.3	46.07	H
36980.0	46.68	1.5	45.18	H
38816.0	48.59	3.5	45.09	H

Test graphs as below:

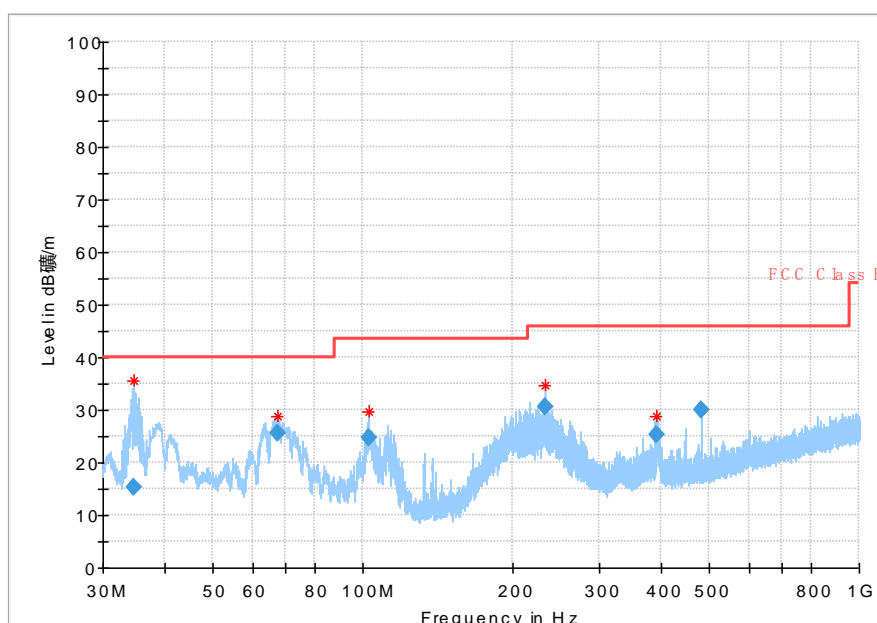


Fig. 42 Radiated Spurious Emission (802.11a, Ch165, 30 MHz-1 GHz)

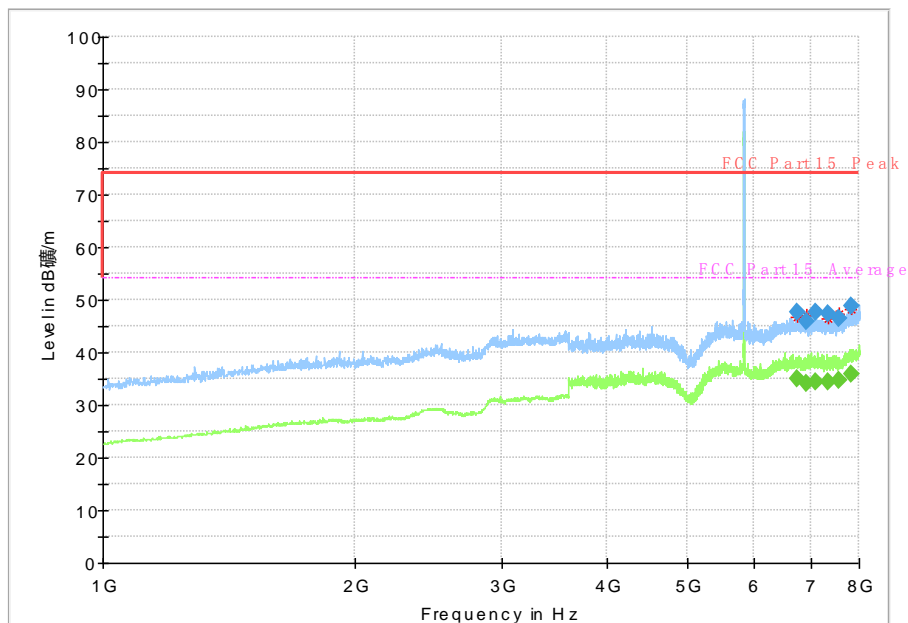


Fig. 43 Radiated Spurious Emission (802.11a, Ch165, 1 GHz-8 GHz)

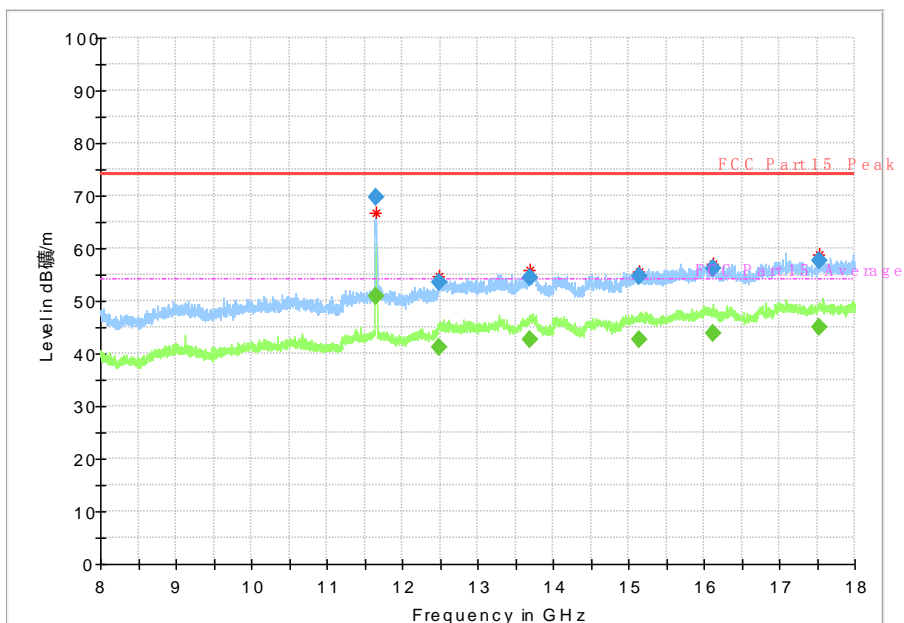


Fig. 44 Radiated Spurious Emission (802.11a, Ch165, 8 GHz-18 GHz)

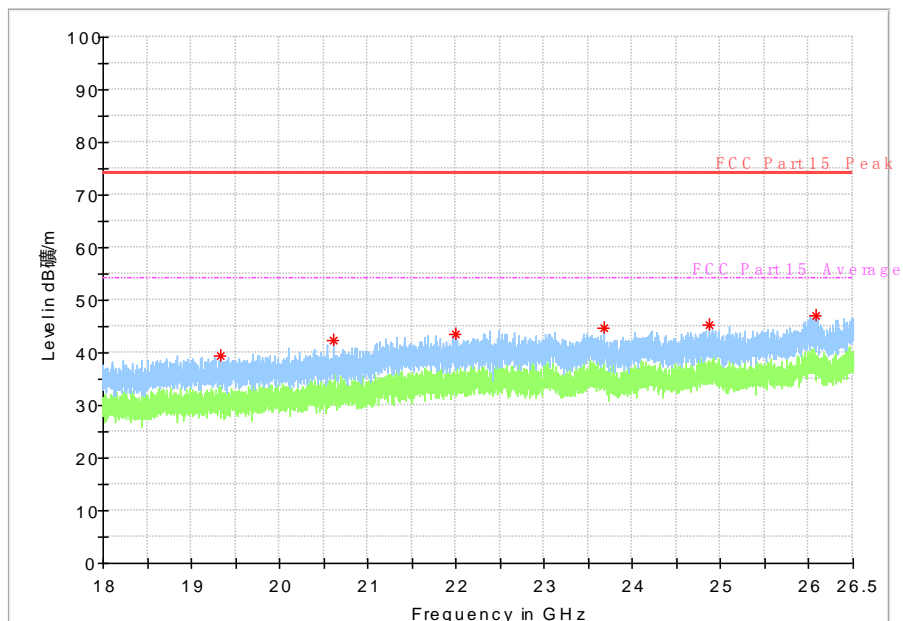


Fig. 45 Radiated Spurious Emission (802.11a, Ch165, 18 GHz-26.5 GHz)

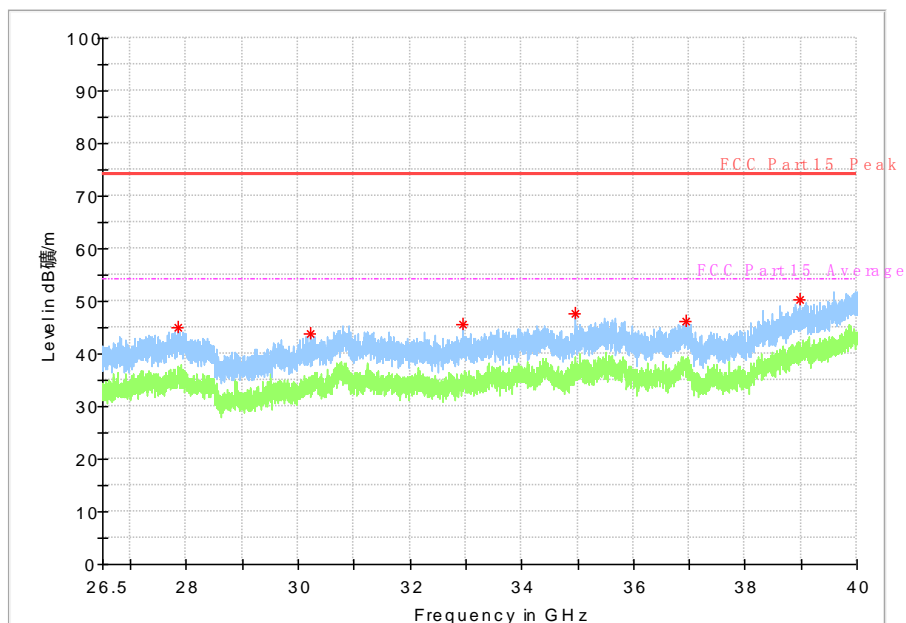


Fig. 46 Radiated emission: 802.11n, (802.11a, Ch165, 26.5 GHz - 40 GHz)

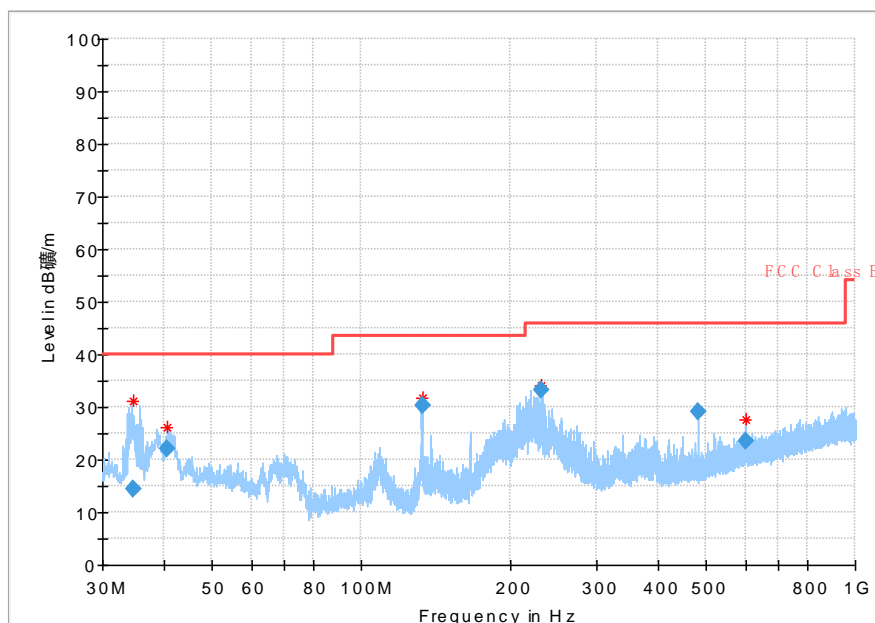


Fig. 47 Radiated Spurious Emission (802.11n-HT20, Ch157, 30 MHz-1 GHz)

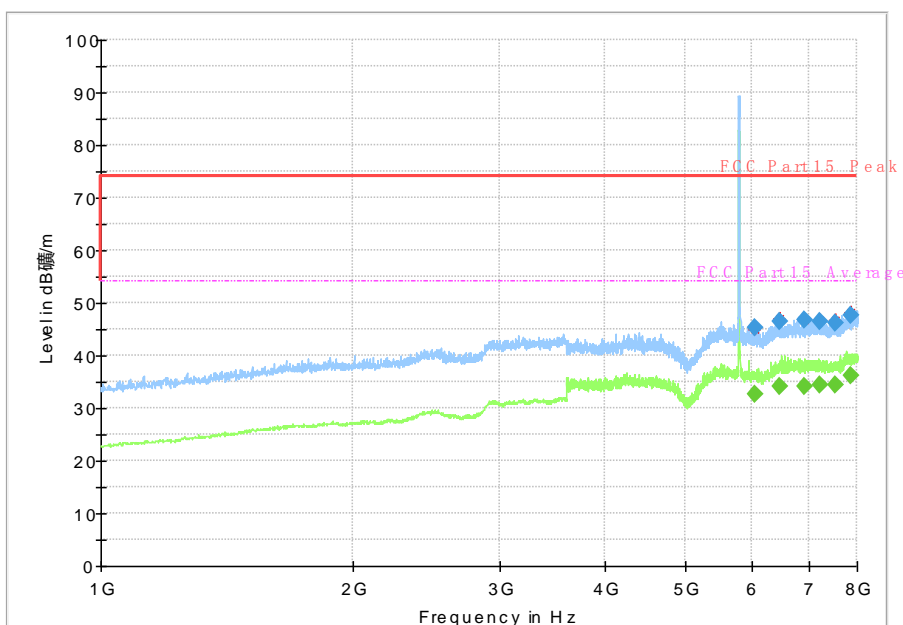


Fig. 48 Radiated Spurious Emission (802.11n-HT20, Ch157, 1 GHz-8 GHz)

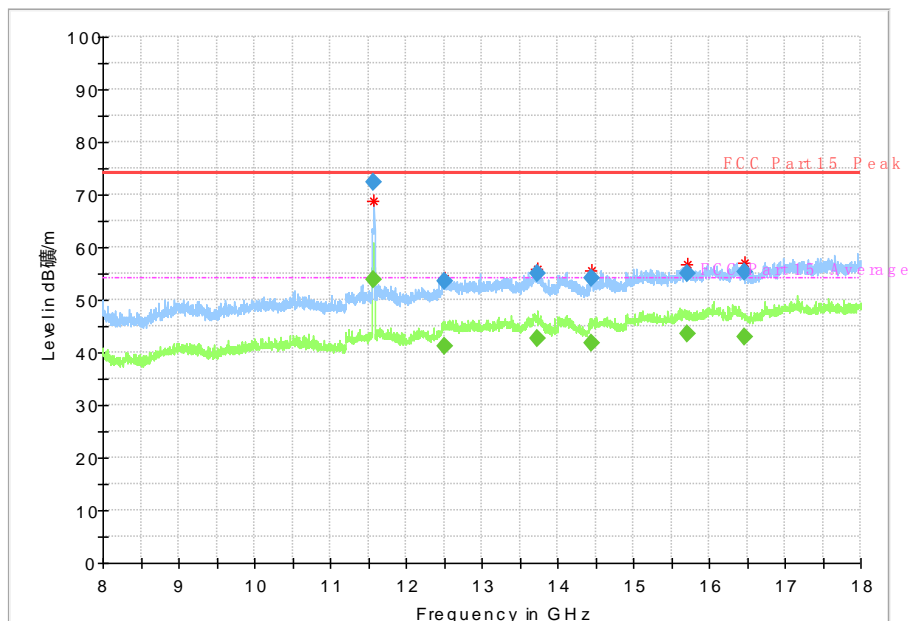


Fig. 49 Radiated Spurious Emission (802.11n-HT20, Ch157, 8 GHz-18 GHz)

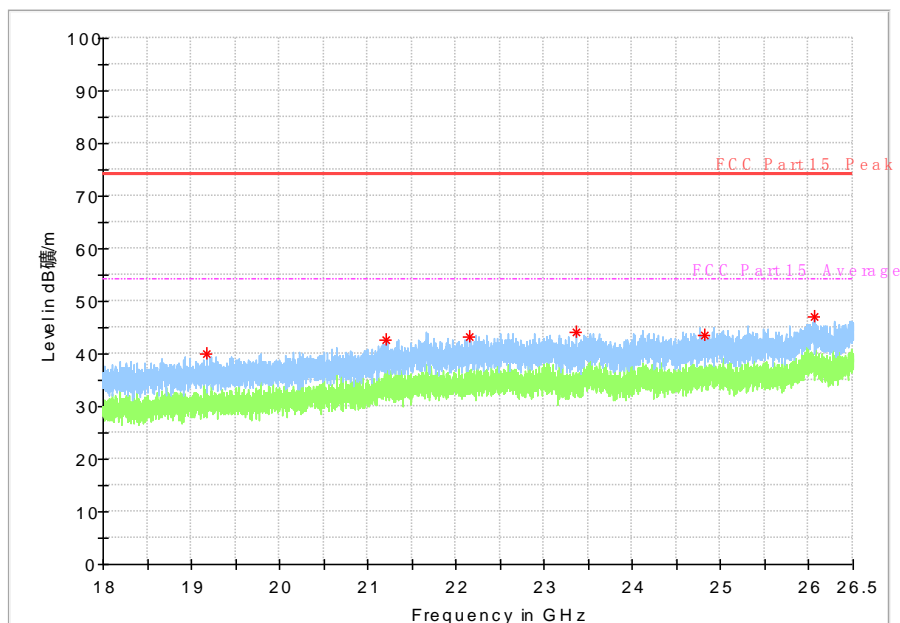


Fig. 50 Radiated Spurious Emission (802.11n-HT20, Ch157, 18 GHz-26.5 GHz)

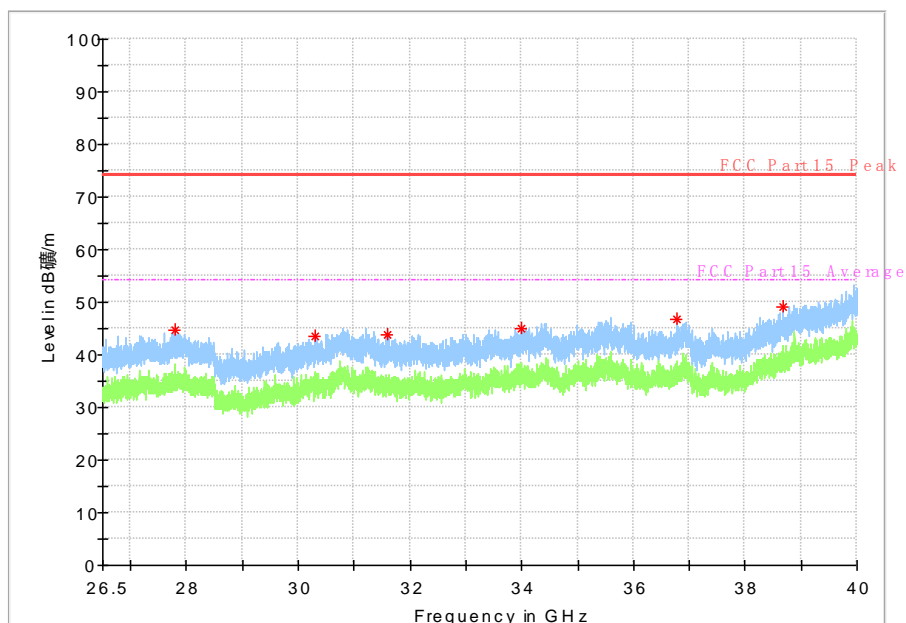


Fig. 51 Radiated emission: 802.11n, (802.11n-HT20, Ch157, 26.5 GHz - 40 GHz)

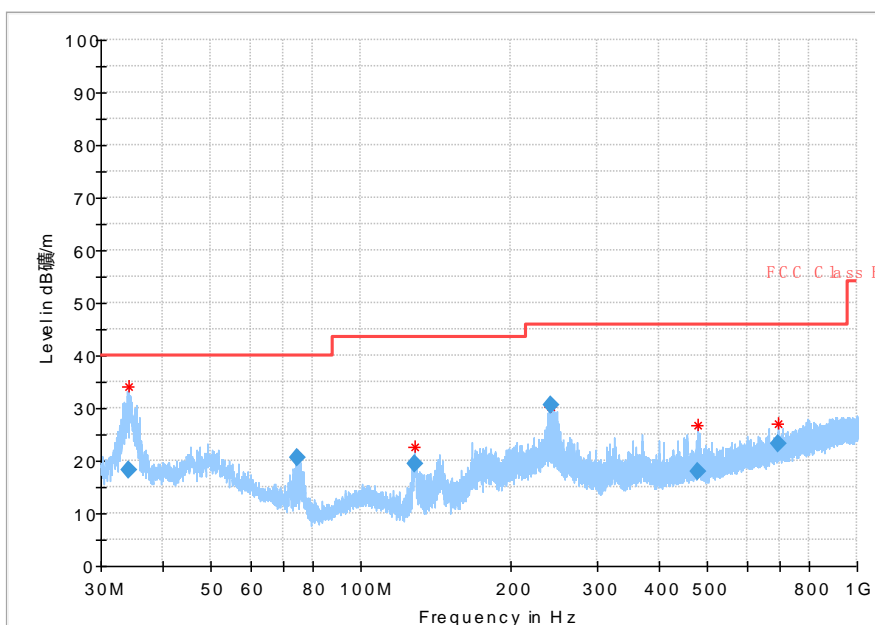


Fig. 52 Radiated Spurious Emission (802.11n-HT40, Ch151, 30 MHz-1 GHz)

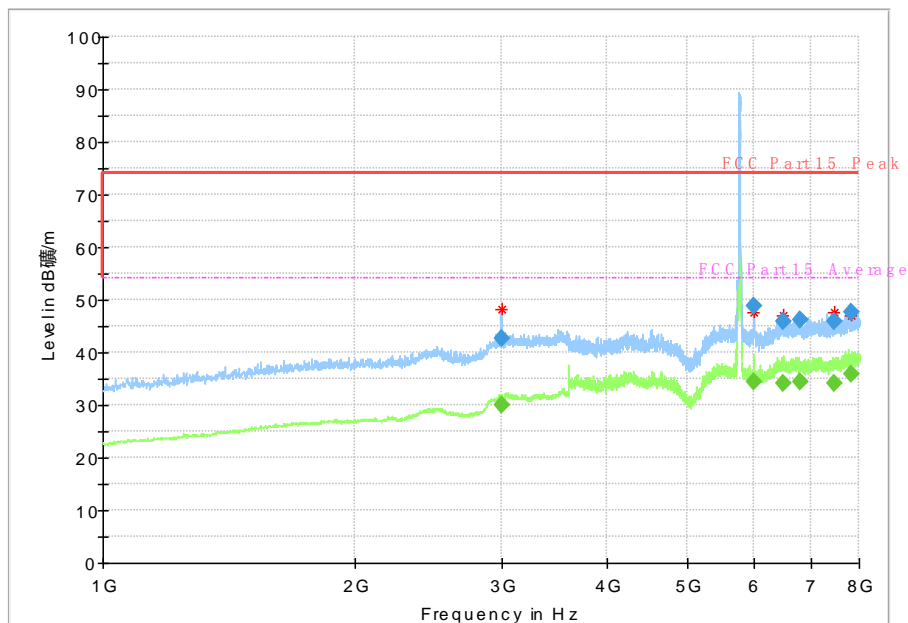


Fig. 53 Radiated Spurious Emission (802.11n-HT40, Ch151, 1 GHz-8 GHz)

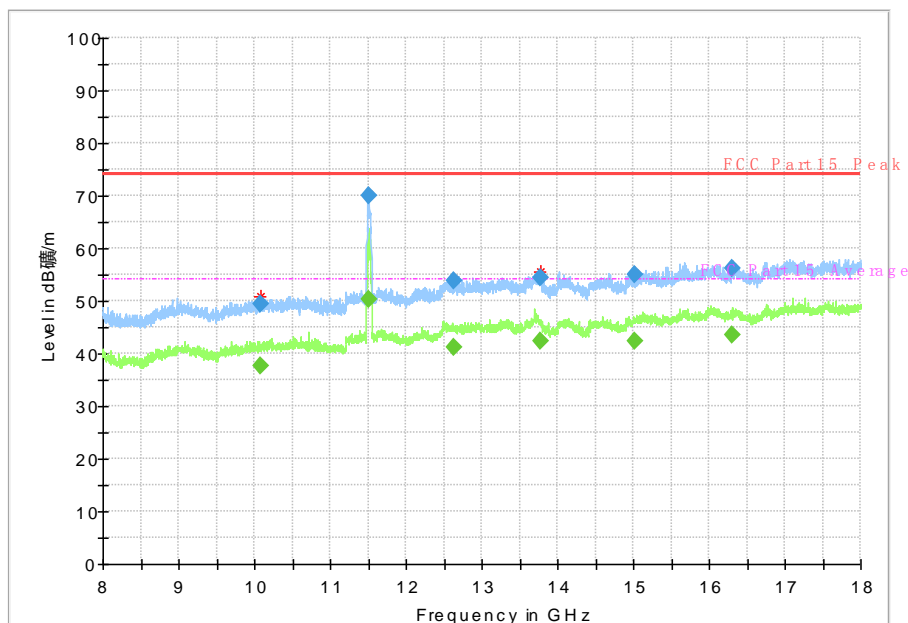


Fig. 54 Radiated Spurious Emission (802.11n-HT40, Ch151, 8 GHz-18 GHz)

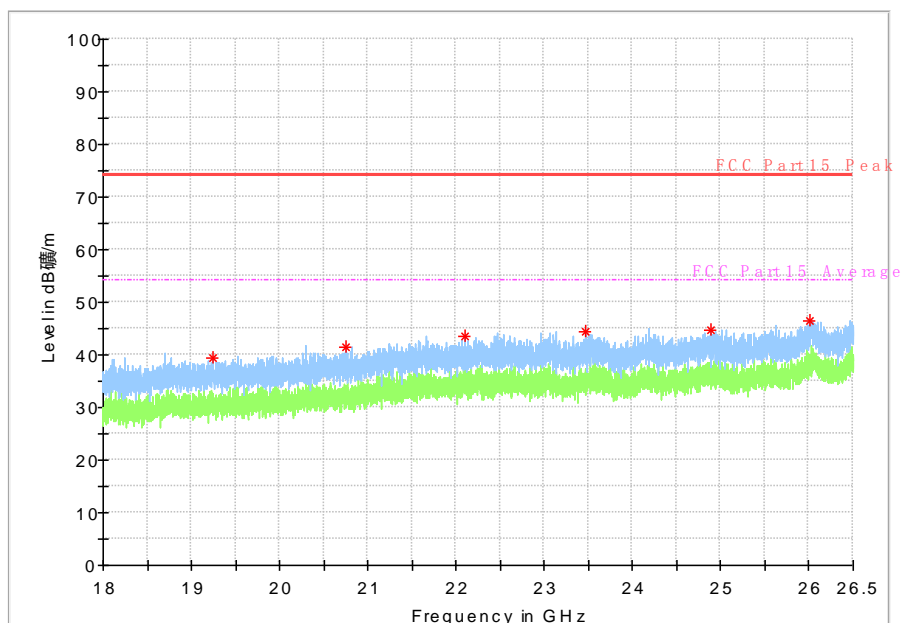


Fig. 55 Radiated Spurious Emission (802.11n-HT40, Ch151, 18 GHz-26.5 GHz)

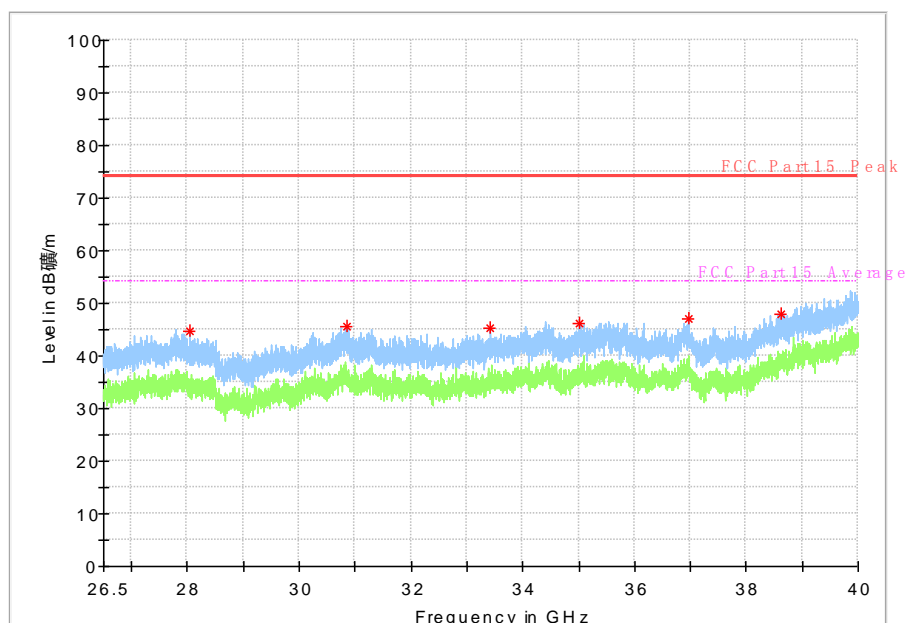
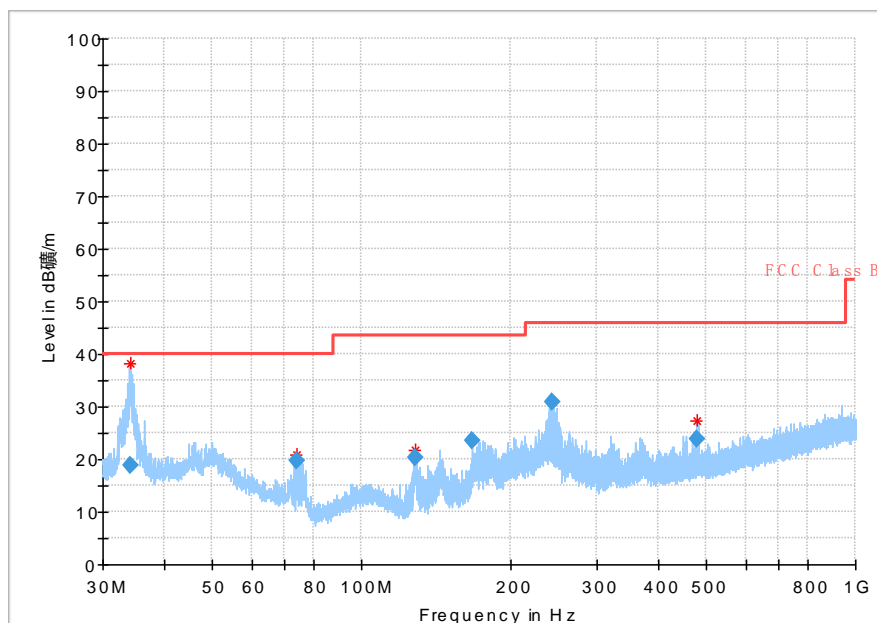


Fig. 56 Radiated emission: 802.11n, (802.11n-HT40, Ch151, 26.5 GHz - 40 GHz)



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Fig. 57 Radiated Spurious Emission (802.11ac-HT20, Ch165, 30 MHz-1 GHz)

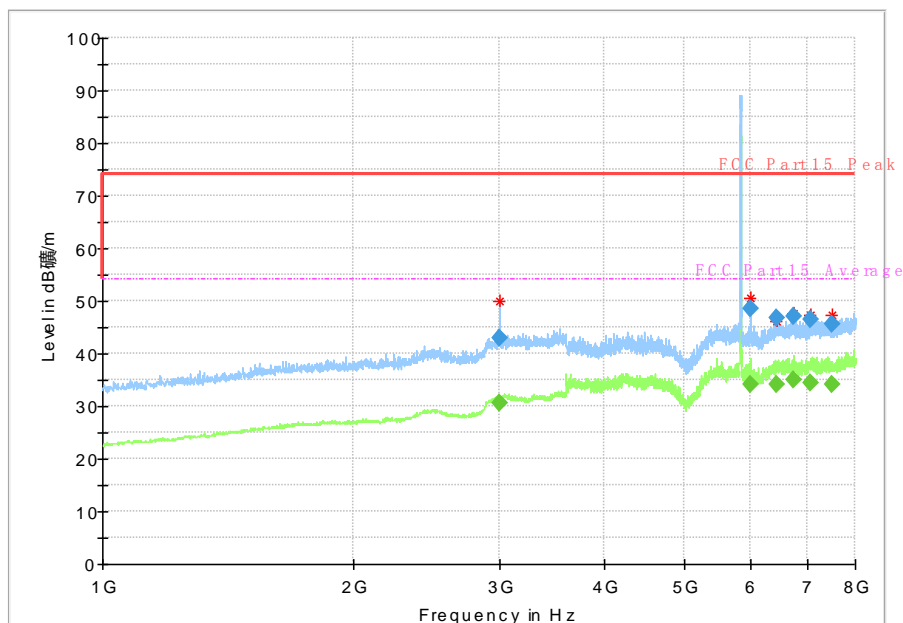


Fig. 58 Radiated Spurious Emission (802.11ac-HT20, Ch165, 1 GHz-8 GHz)

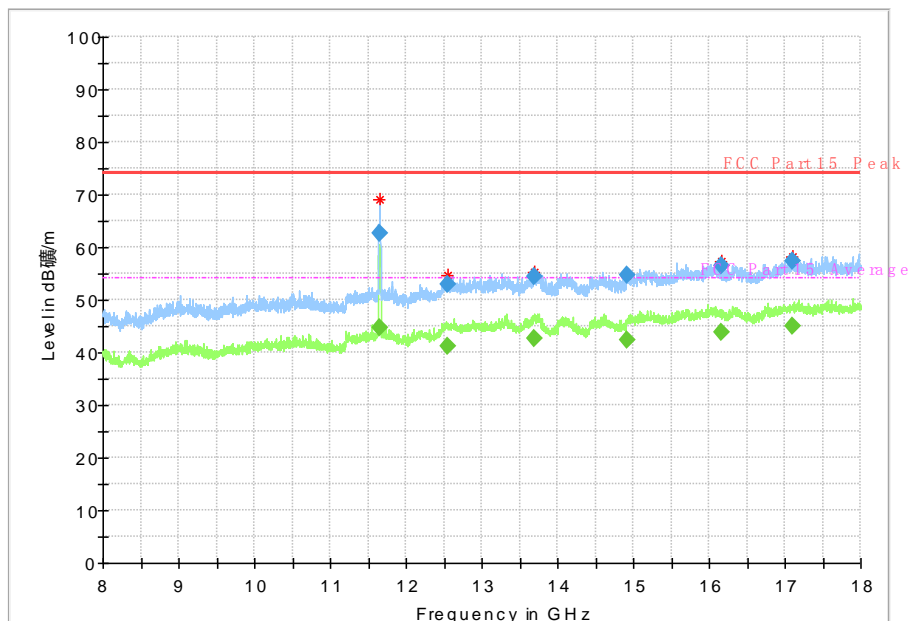


Fig. 59 Radiated Spurious Emission (802.11ac-HT20, Ch165, 8 GHz-18 GHz)

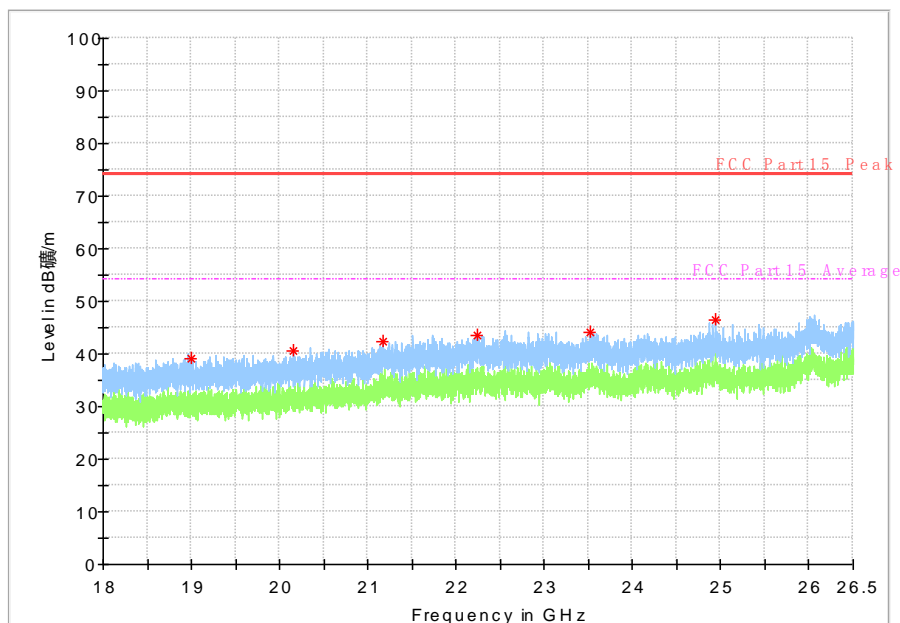


Fig. 60 Radiated Spurious Emission (802.11ac-HT20, Ch165, 18 GHz-26.5 GHz)

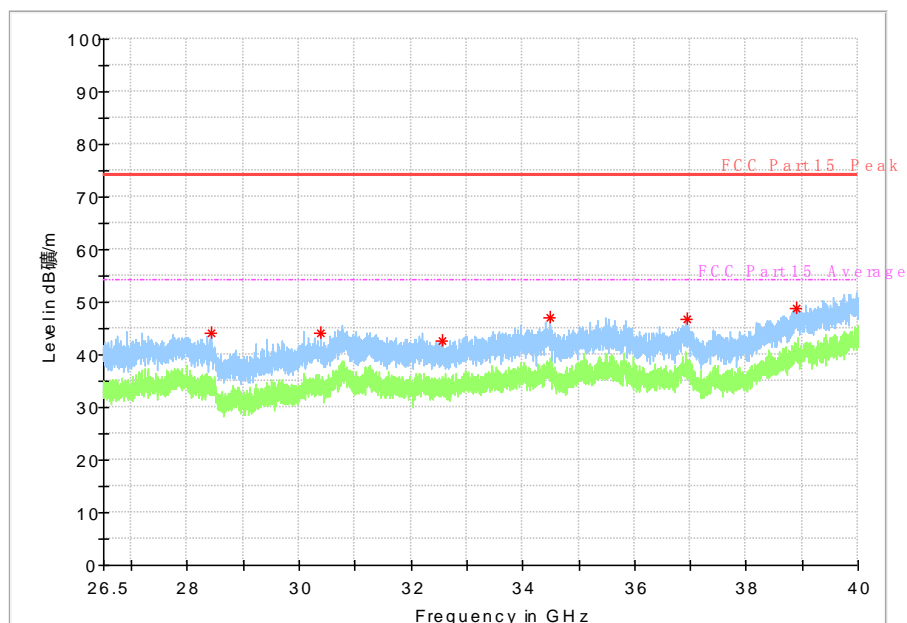


Fig. 61 Radiated emission: 802.11n, (802.11ac-HT20, Ch165, 26.5 GHz - 40 GHz)

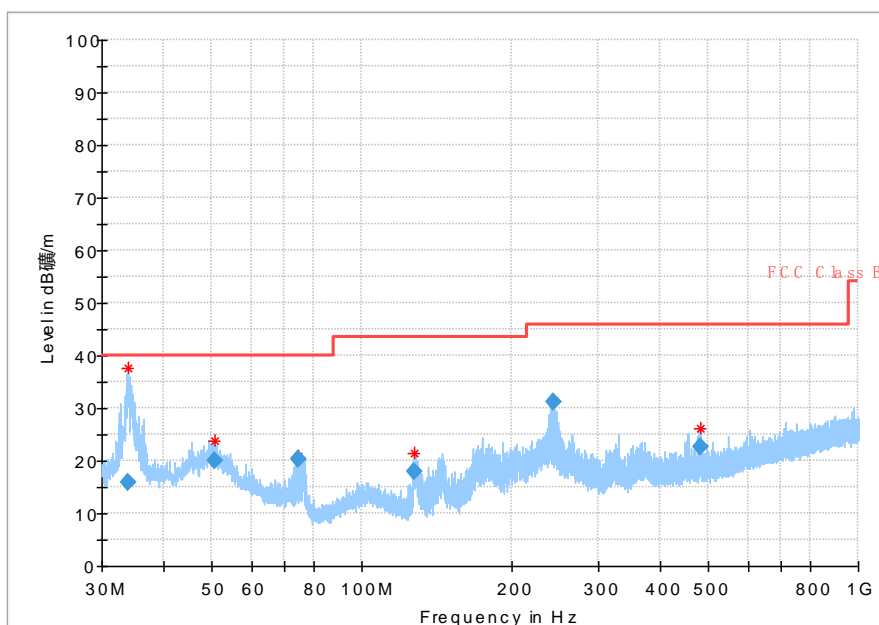


Fig. 62 Radiated Spurious Emission (802.11ac-HT40, Ch151, 30 MHz-1 GHz)

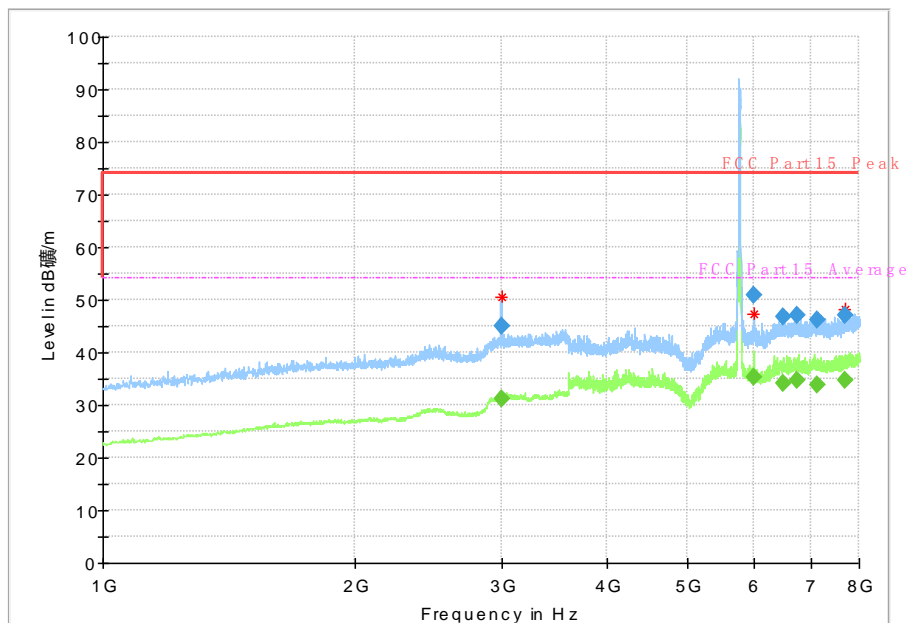


Fig. 63 Radiated Spurious Emission (802.11ac-HT40, Ch151, 1 GHz-8 GHz)

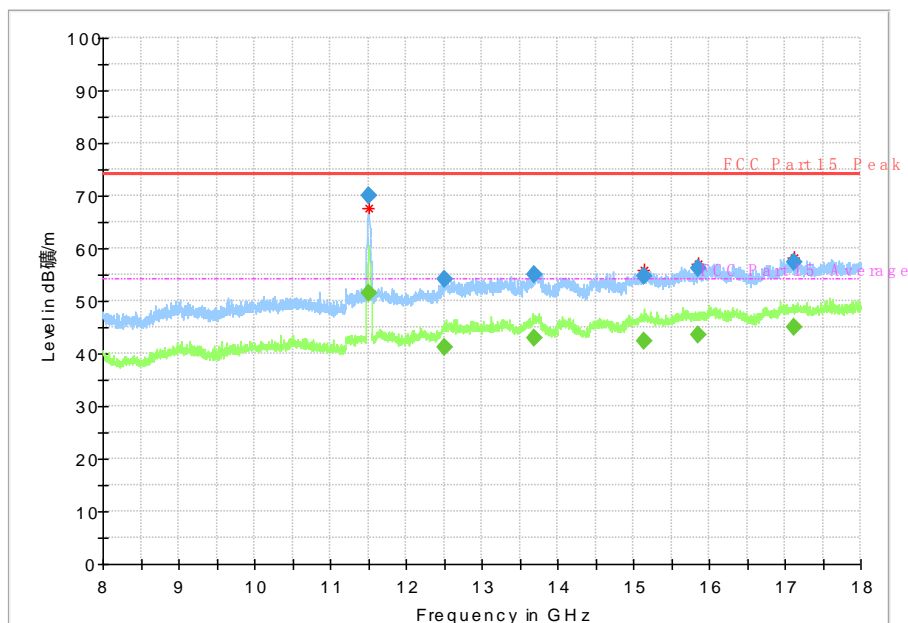


Fig. 64 Radiated Spurious Emission (802.11ac-HT40, Ch151, 8 GHz-18 GHz)

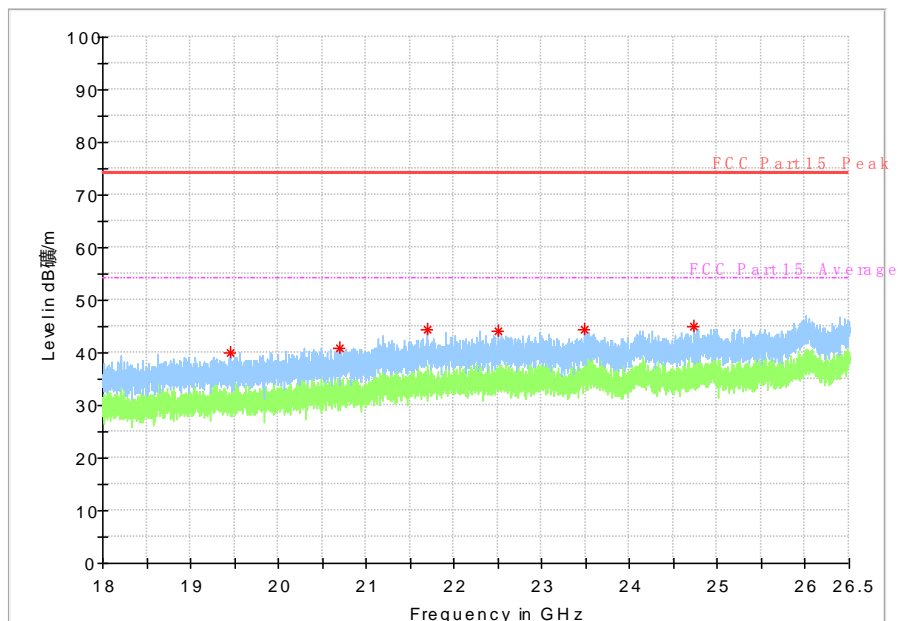


Fig. 65 Radiated Spurious Emission (802.11ac-HT40, Ch151, 18 GHz-26.5 GHz)

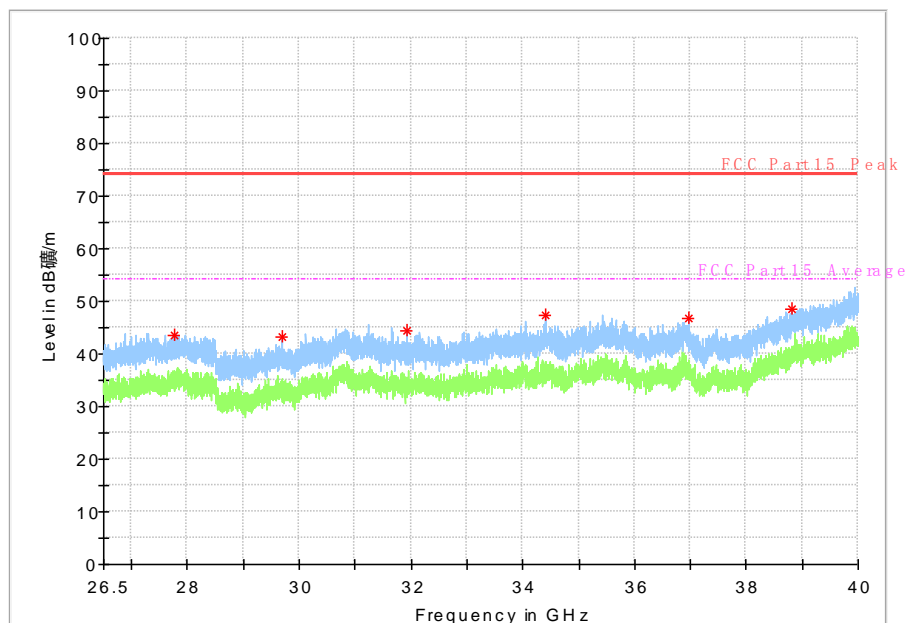


Fig. 66 Radiated emission: 802.11n, (802.11ac-HT40, Ch151, 26.5 GHz - 40 GHz)

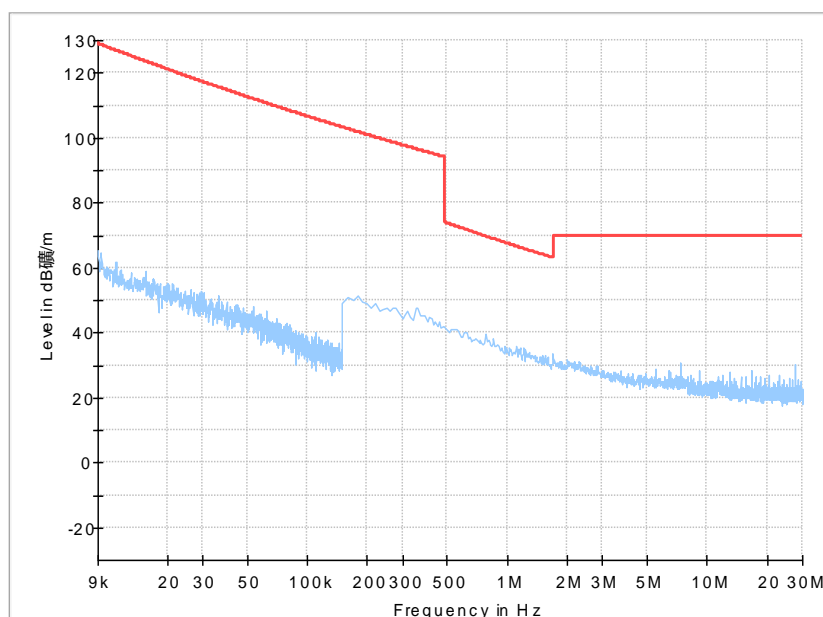


Fig. 67 Radiated Spurious Emission (9kHz-30MHz)

ANNEX A.6. Band Edges Compliance

Band Edges - Radiated

Measurement Limit:

- (1) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (5) 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 (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

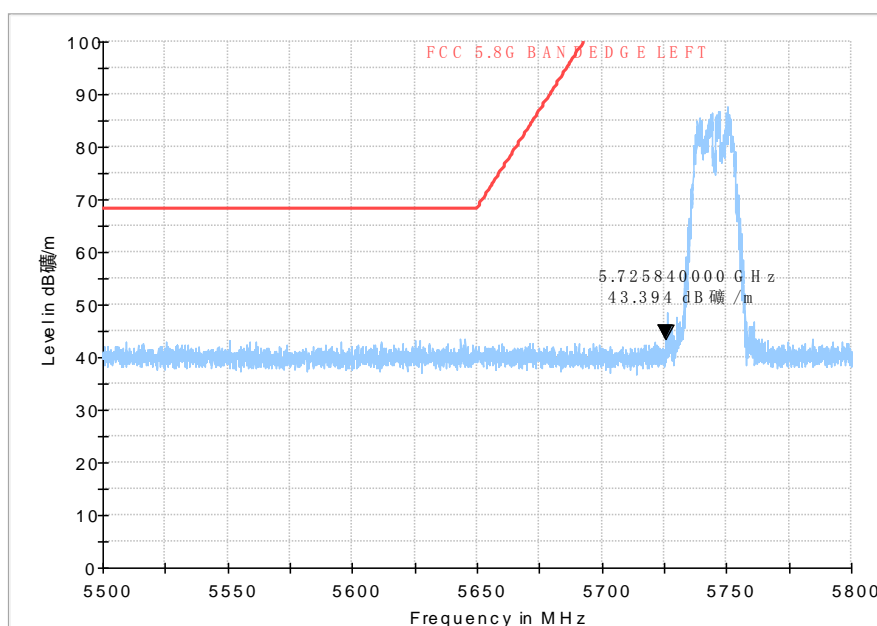
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

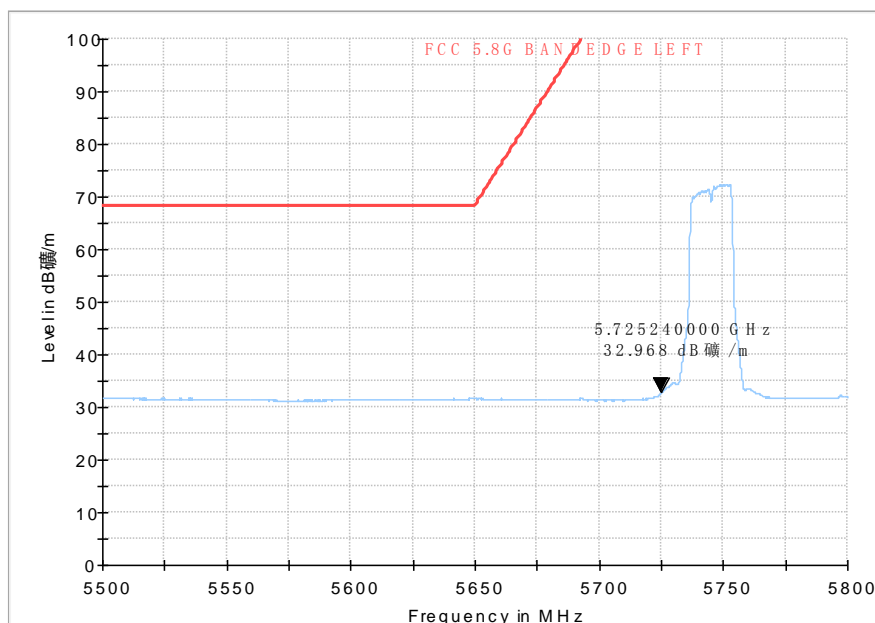
Set the spectrum analyzer in the following:

- (a) Sweep mode :SweepAnalyzer6db.
- (b) PEAK: RBW=1MHz / VBW=3MHz / Sweep=2.5ms, Sweep point;5001
- (c) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=2.5ms, Sweep point;5001

Measurement Result:

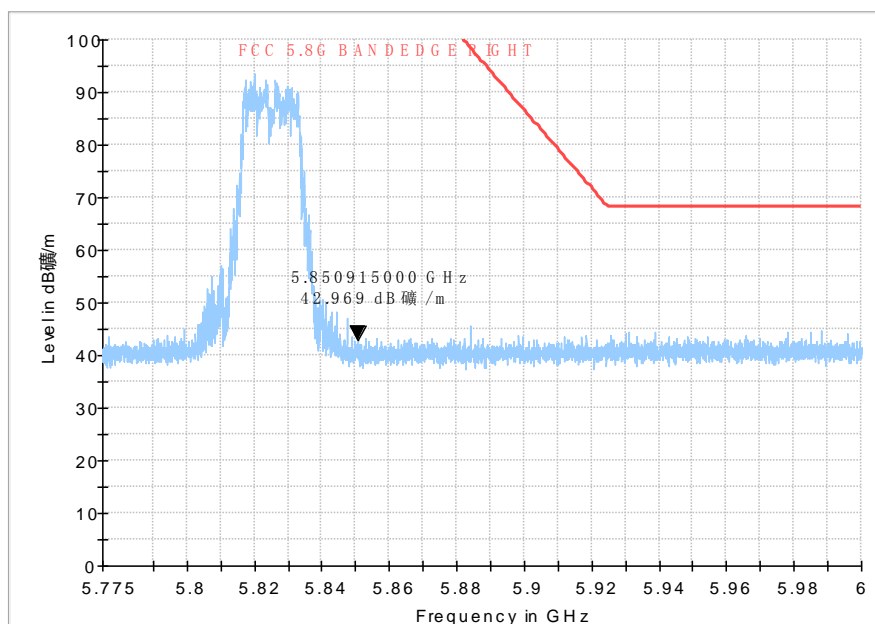
Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.68	P
	5825 MHz	Fig.69	P
802.11n HT20	5745 MHz	Fig.70	P
	5825 MHz	Fig.71	P
802.11n HT40	5755 MHz	Fig.72	P
	5795 MHz	Fig.73	P
802.11ac HT20	5745 MHz	Fig.74	P
	5825 MHz	Fig.75	P
802.11ac HT40	5755 MHz	Fig.76	P
	5795 MHz	Fig.77	P

Conclusion: PASS
Test graphs as below:

Peak

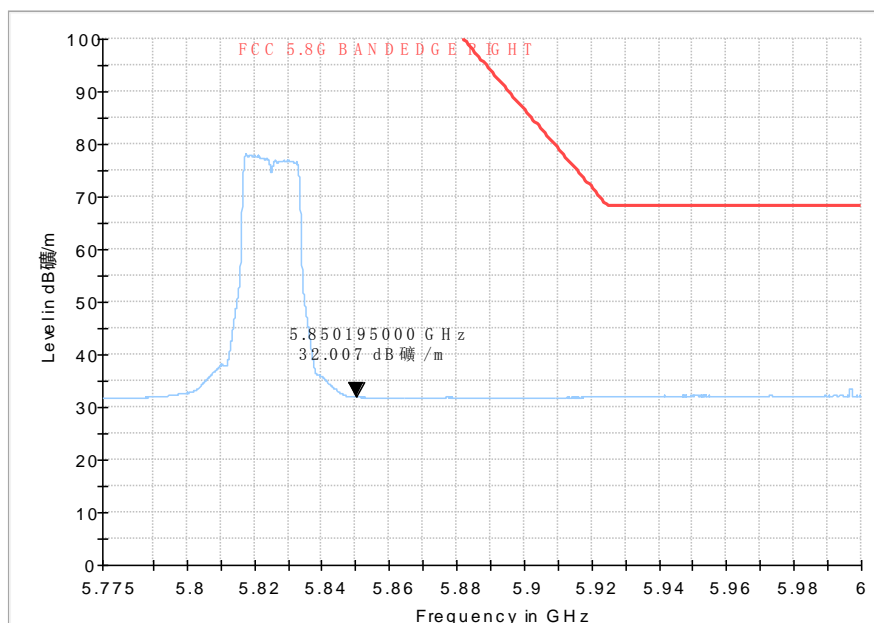


Average

Fig. 68 Band Edges (802.11a, 5745MHz)

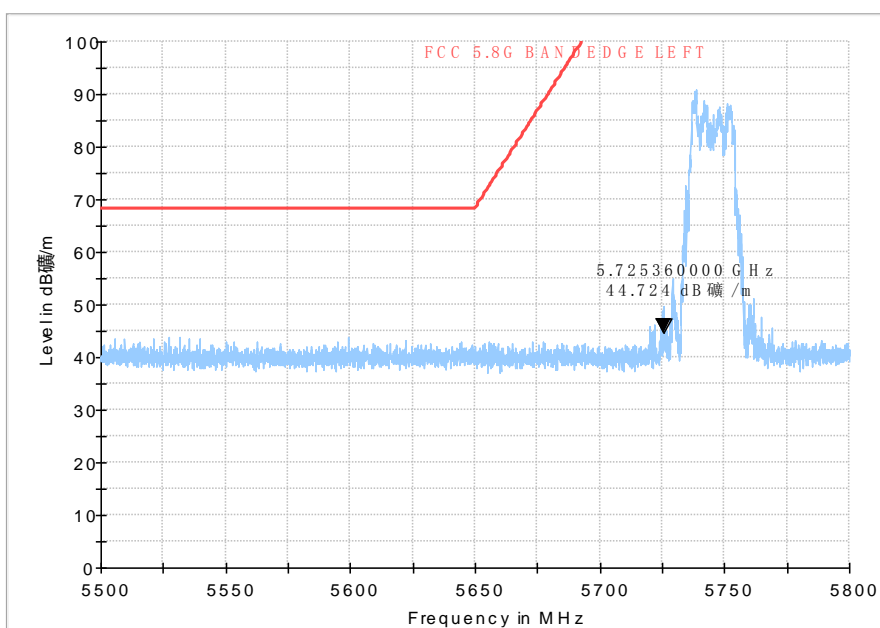


Peak

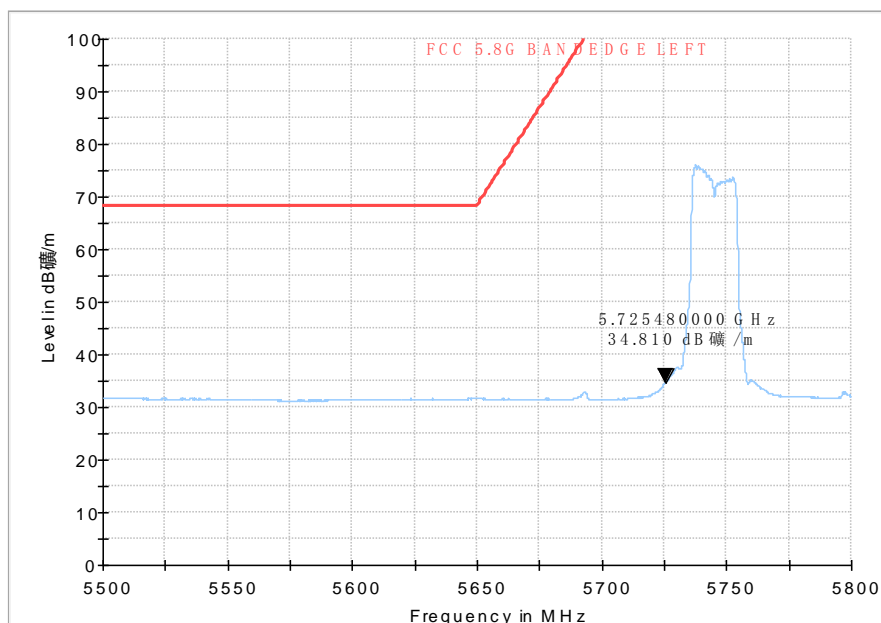


Average

Fig. 69 Band Edges (802.11a, 5825MHz)

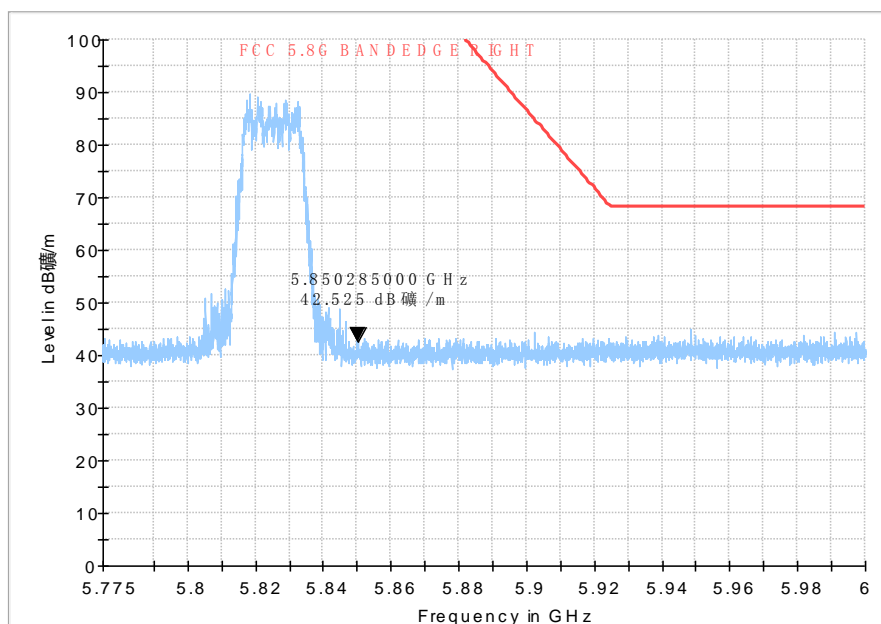


Peak

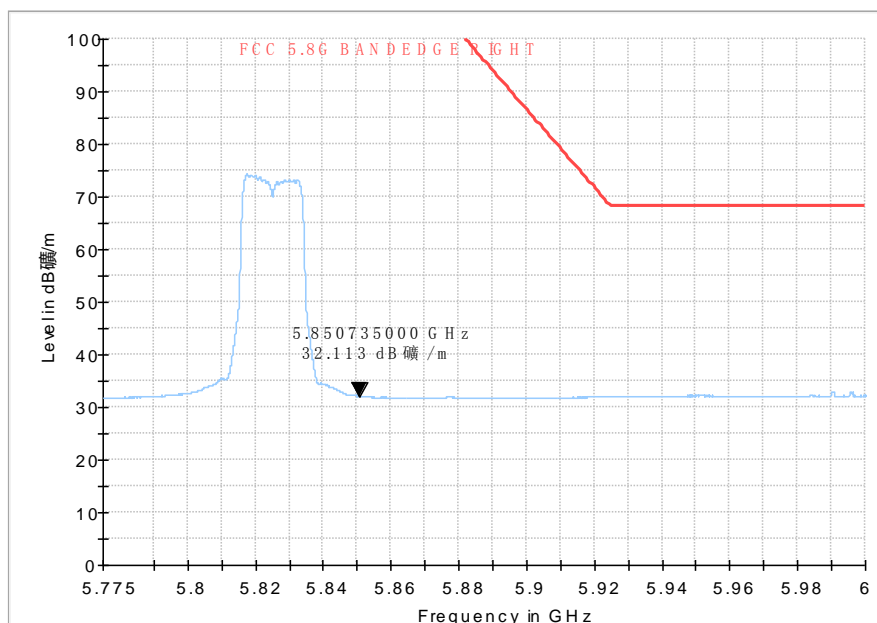


Average

Fig. 70 Band Edges (802.11n-HT20, 5745MHz)

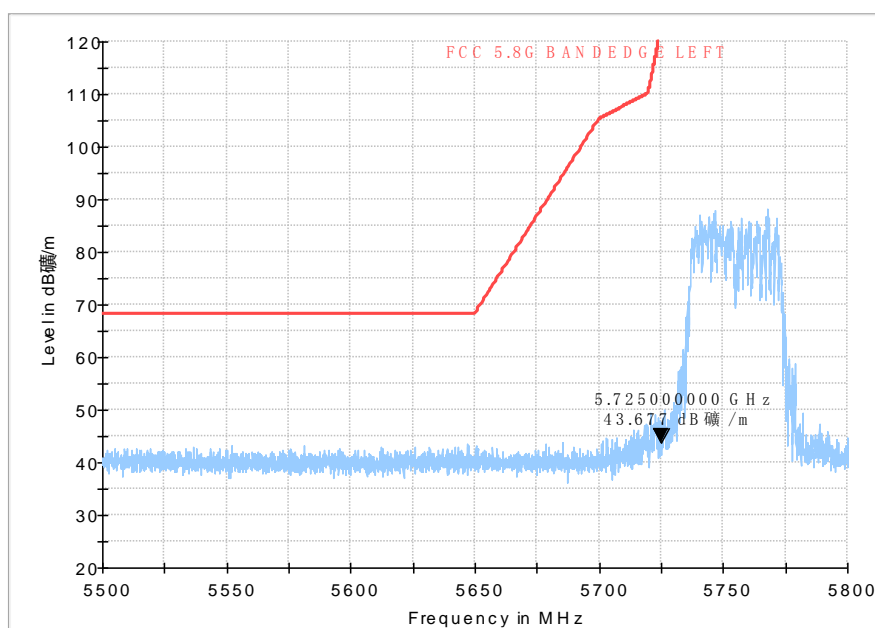


Peak

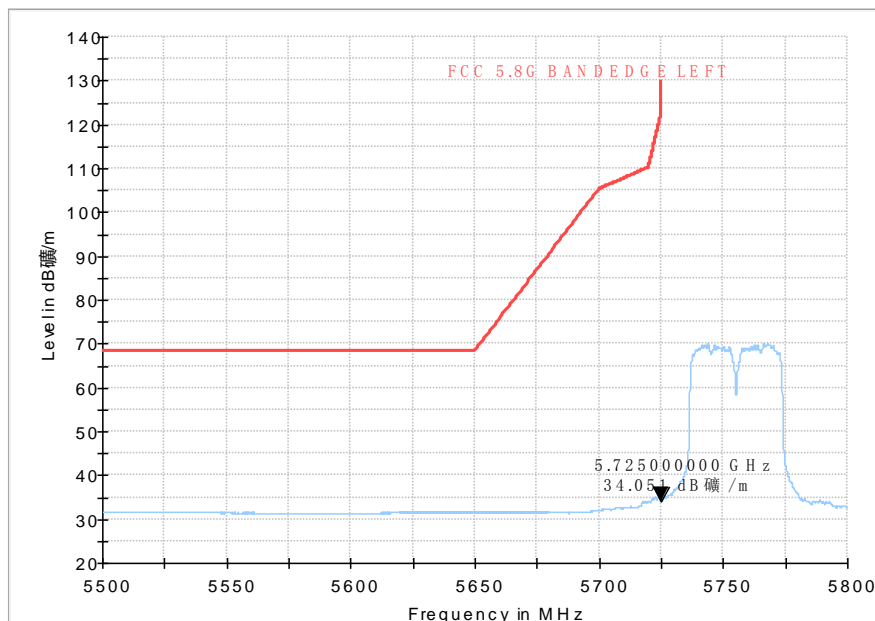


Average

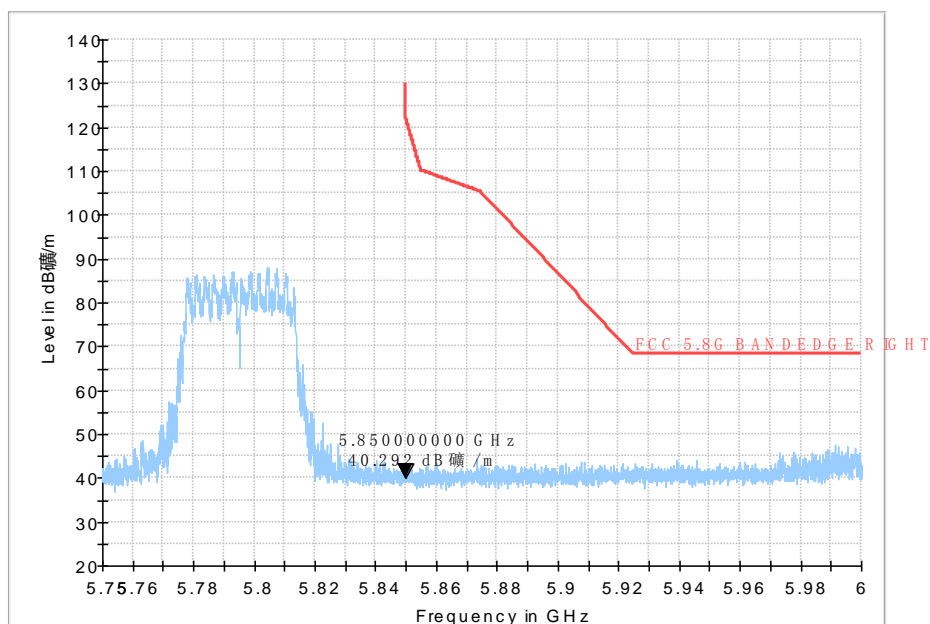
Fig. 71 Band Edges (802.11n-HT20, 5825MHz)



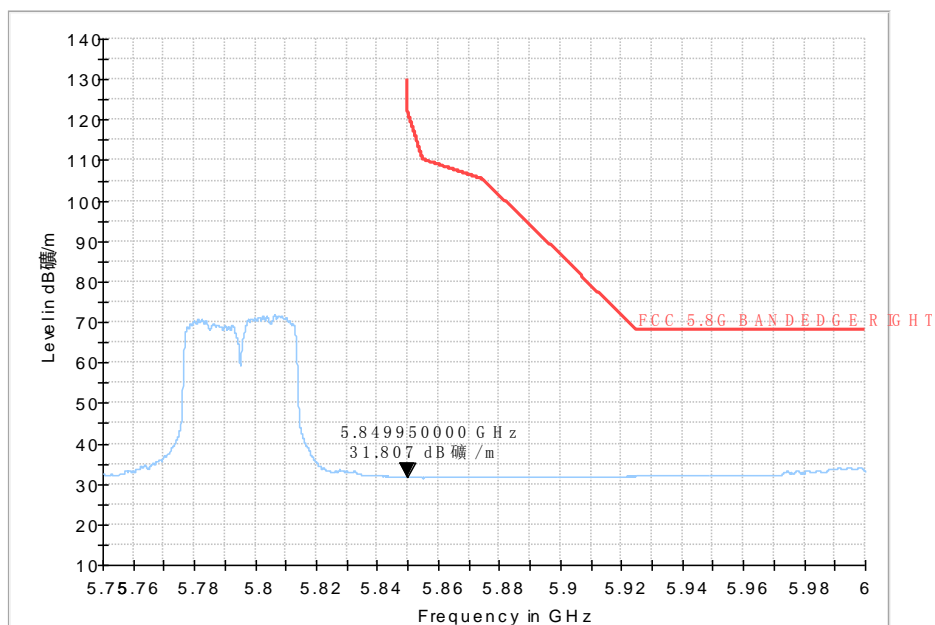
Peak



Average
Fig. 72 Band Edges (802.11n-HT40, 5755MHz)

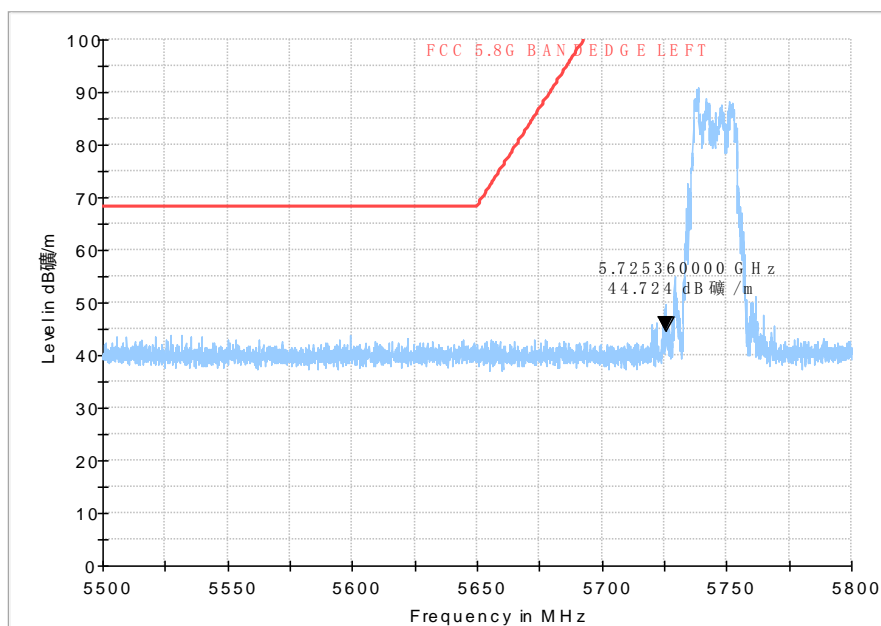


Peak

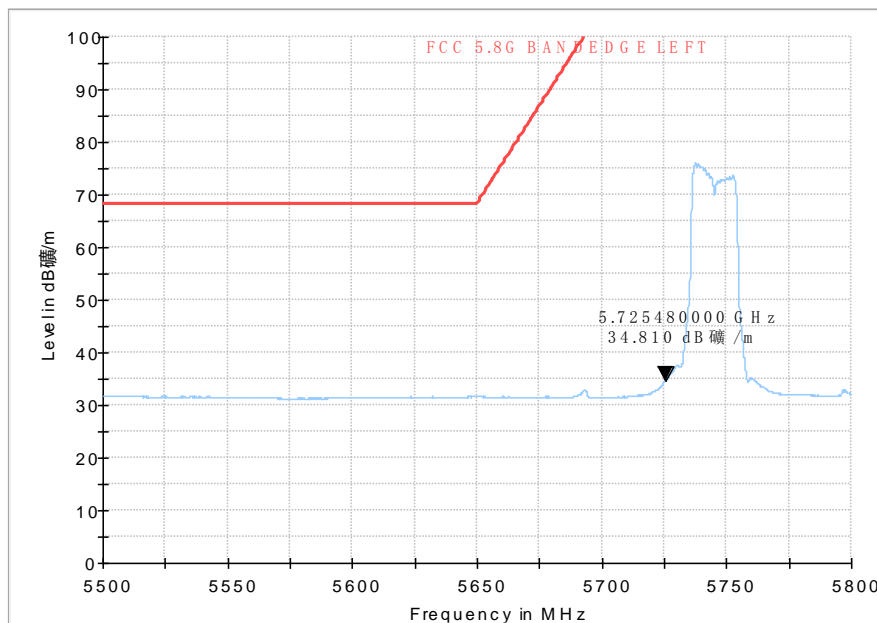


Average

Fig. 73 Band Edges (802.11n-HT40, 5795MHz)

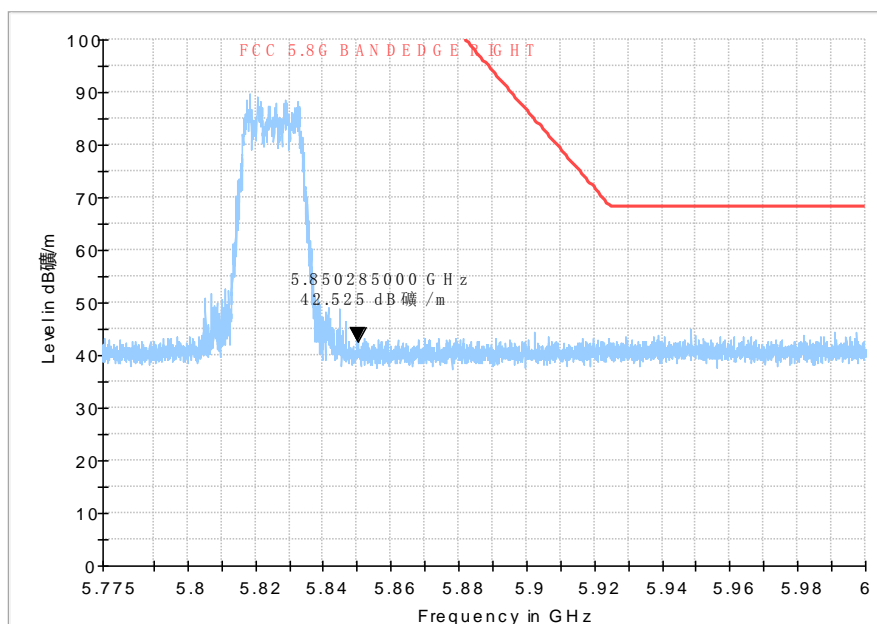


Peak

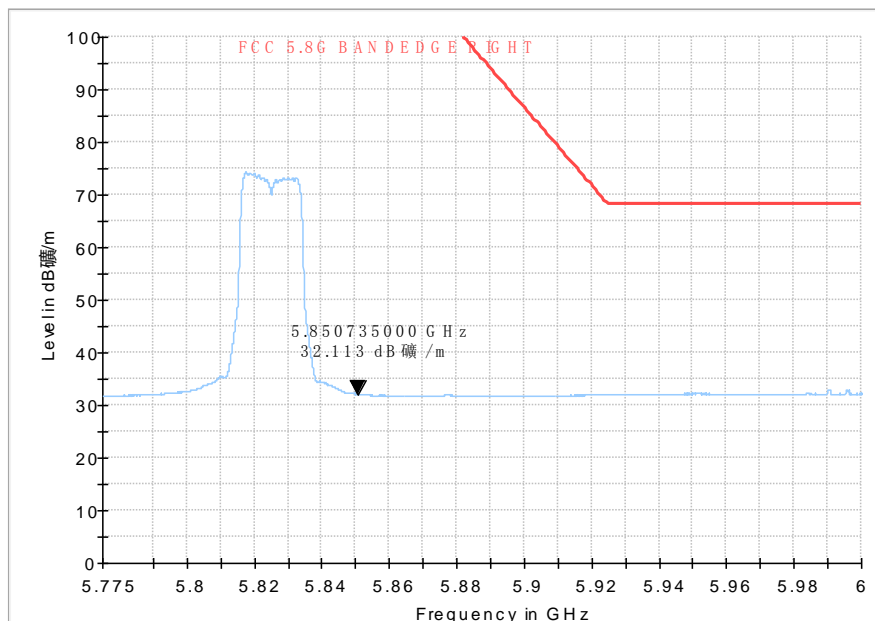


Average

Fig. 74 Band Edges (802.11ac-HT20, 5745MHz)

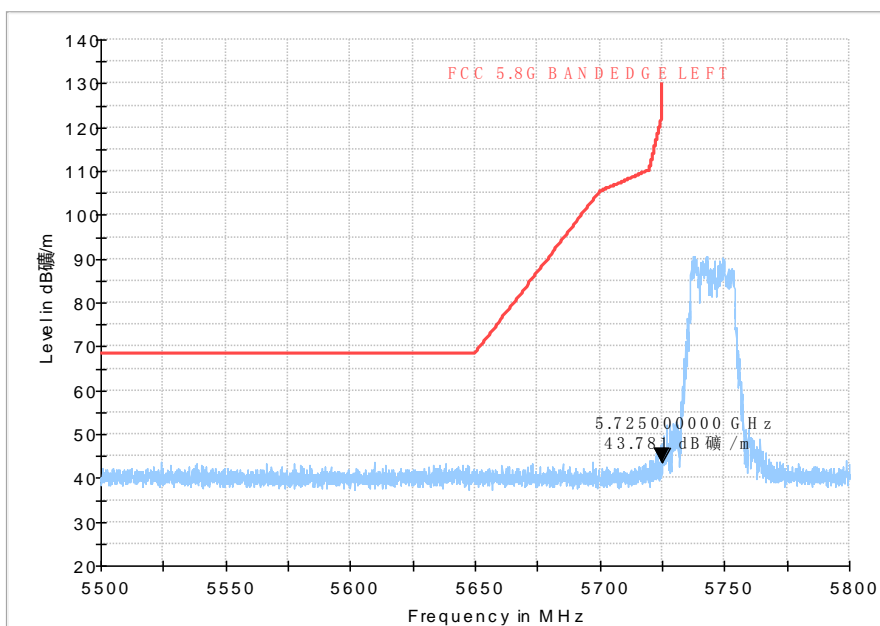


Peak



Average

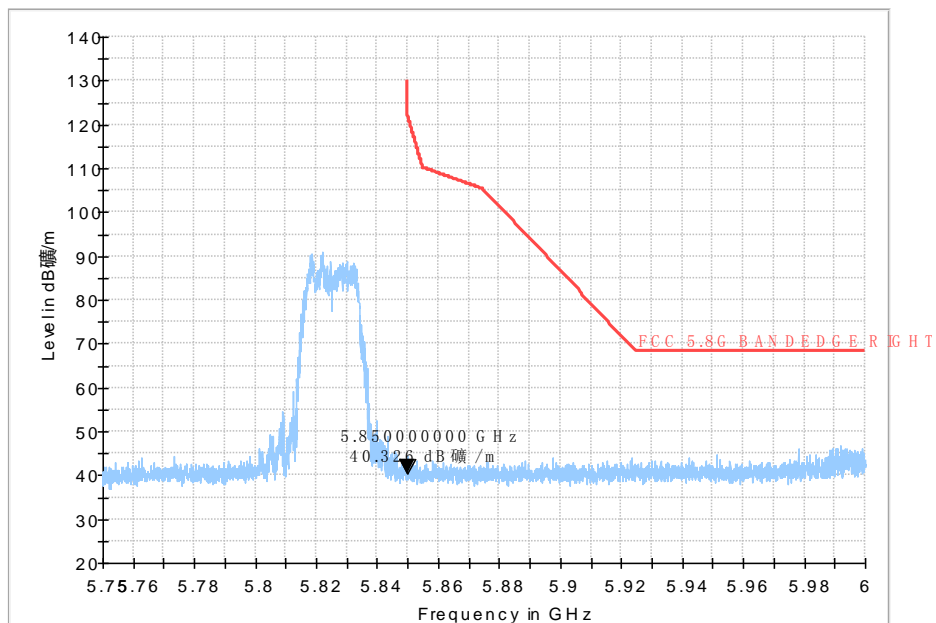
Fig. 75 Band Edges (802.11ac-HT20, 5825MHz)



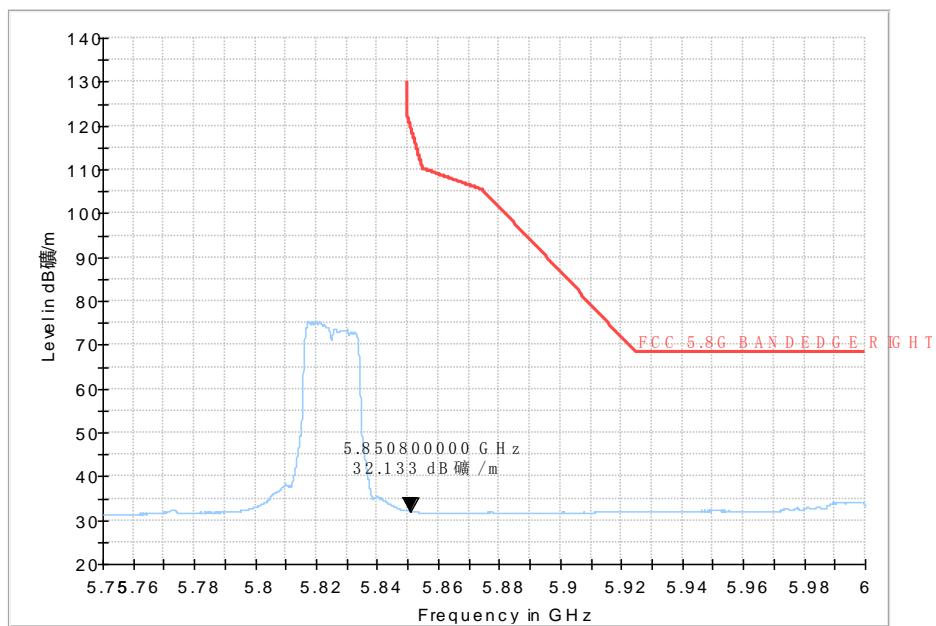
Peak

Average

Fig. 76 Band Edges (802.11ac-HT40, 5755MHz)



Peak



Average

Fig. 77 Band Edges (802.11ac-HT40, 5795MHz)

ANNEX B. Accreditation Certificate

*****END OF REPORT*****