



TEST REPORT

No. I21N03655-RLAN

TCL Communication Ltd.

Tablet PC

Model Name: 9132S

with

Hardware Version: 03

Software Version: AM3S

FCC ID: 2ACCJB171

Issued Date: 2022-02-21

Designation Number: CN1210

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 SAICT.

Test Laboratory:

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1. Summary of Test Report

1.1. Test Items

Description	Tablet PC
Model Name	9132S
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

1.2. Test Standards

FCC Part15-2019; ANSI C63.10-2013; KDB789033-V02r01

1.3. Test Result

Pass

Please refer to 5.2 Test Results.

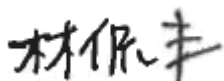
1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date:	2021-12-30
Testing End Date:	2022-02-10

1.6. Signature



Lin Kanfeng
(Prepared this test report)



An Ran
(Reviewed this test report)



Zhang Bojun
(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
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2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person: Peter yang
E-Mail: peter.yang@tcl.com
Telephone: +86 755 3664 5759
FAX: 0086-755-36612000-81722

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

3.1. About EUT

Description	Tablet PC
Model Name	9132S
RLAN Frequency Range	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5725MHz~5850MHz
RLAN Protocol	IEEE 802.11a,802.11n-HT20/40,802.11ac-VHT20/40/80
Type of modulation	OFDM
Antenna Type	Integrated
Antenna Gain	-0.5 dBi
Power Supply	3.85V DC by Battery
FCC ID	2ACCJB171
Condition of EUT as received	No abnormality in appearance

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version	Receive Date
UT07aa	/	03	AM3S	2021-12-24
UT05aa	/	03	AM3S	2021-12-24

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

*UT07aa is used for Conduction test; UT05aa is used for Radiation test and AC Power line Conducted Emission test.

3.3. Internal Identification of AE

AE ID*	Description	SN
AE1	Battery	/
AE2	Charger	/

*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 Tablet PC with integrated antenna and battery.

It consists of normal options: Lithium 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.

Reference	Title	Version
FCC Part15	FCC CFR 47,Part 15,Subpart C	2019
	FCC CFR 47,Part 15,Subpart E	
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
KDB789033	GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E	V02r01

5. Test Results

5.1. Testing Environment

Normal Temperature: 15~35°C

Relative Humidity: 20~75%

5.2. Test Results

No.	Test cases	Sub-clause of Part15E	Verdict
1	Maximum Output Power	15.407	P
2	Power Spectral Density	15.407	P
3	Occupied 26dB Bandwidth	15.403	P
4	Occupied 6dB Bandwidth	15.407	P
5	99% Occupied Bandwidth	15.403	P
6	Band edge compliance	15.209	P
7	Transmitter Spurious Emissions	15.407, 15.205	P
8	AC Power line Conducted	15.107, 15.207	P
9	Transmit Power Control	15.407	NA

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

5.3. Statements

SAICT has evaluated the test cases requested by the applicant/manufacture as listed in section 5.2 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2.

Disclaimer:

A. After confirmation with the customer, the sample information provided by the customer may affect the validity of the measurement results in this report, and the impact and consequences arising therefrom shall be borne by the customer.

B. The samples in this report are provided by the customer, and the test results are only applicable to the samples received.

6. Test Equipments Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Date	Calibration Period
1	Vector Signal Analyzer	FSV40	100903	Rohde & Schwarz	2022-12-29	1 year
2	Power Sensor	U2021XA	MY55430013	Keysight	2022-12-29	1 year
3	Data Acquisition	U2531A	TW55443507	Keysight	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Date	Calibration Period
1	LISN	ESH2-Z5	100196	R&S	2022-12-31	1 year
2	Test Receiver	ESCI	100701	R&S	2022-08-04	1 year
3	Loop Antenna	HLA6120	35779	TESEQ	2022-05-01	3 year
4	BiLog Antenna	VULB9163	9163 329	Schwarzbeck	2024-02-15	3 year
5	Horn Antenna	3117	00066585	ETS-Lindgren	2022-03-04	3 year
6	Test Receiver	ESR7	101675	R&S	2022-07-16	1 year
7	Spectrum Analyzer	FSP 40	100378	R&S	2022-12-10	1 year
8	Chamber	FACT5-2.0	4166	ETS-Lindgren	2024-05-11	3 year
9	Antenna	QSH-SL-1 8-26-S-20	17013	Q-par	2024-01-13	3 year
10	Antenna	QSH-SL-2 6-40-K-20	17014	Q-par	2024-01-19	3 year

Test software

No.	Equipment	Manufacturer	Version
1	TechMgr Software	CAICT	2.1.1
2	EMC32	Rohde & Schwarz	8.53.0
3	EMC32	Rohde & Schwarz	10.01.00

EUT is engineering software provided by the customer to control the transmitting signal. The EUT was programmed to be in continuously transmitting mode.

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren

7. Laboratory Environment

Semi-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3 m distance, from 30 to 1000 MHz

Shielded room

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-1000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω

Fully-anechoic chamber

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2M Ω
Ground system resistance	< 4 Ω
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18 GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

8. Measurement Uncertainty

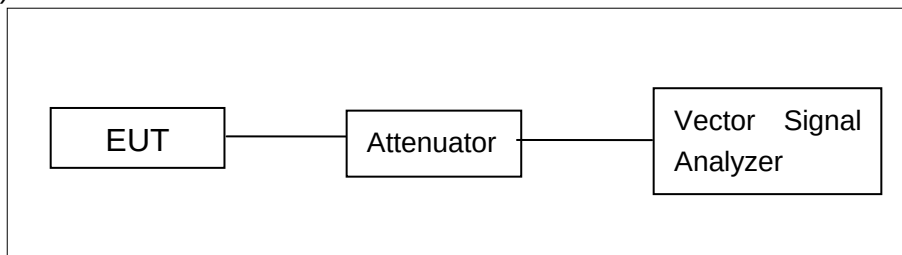
Test Name	Uncertainty ($k=2$)	
1. RF Output Power - Conducted	1.32dB	
2. Power Spectral Density - Conducted	2.32dB	
3. Occupied channel bandwidth - Conducted	66Hz	
4. Transmitter Spurious Emission - Conducted	$30\text{MHz} \leq f < 1\text{GHz}$	1.41dB
	$1\text{GHz} \leq f < 7\text{GHz}$	1.92dB
	$7\text{GHz} \leq f < 13\text{GHz}$	2.31dB
	$13\text{GHz} \leq f \leq 26\text{GHz}$	2.61dB
5. Transmitter Spurious Emission - Radiated	$9\text{kHz} \leq f < 30\text{MHz}$	1.70dB
	$30\text{MHz} \leq f < 1\text{GHz}$	4.90dB
	$1\text{GHz} \leq f < 18\text{GHz}$	4.60dB
	$18\text{GHz} \leq f \leq 40\text{GHz}$	4.10dB
6. AC Power line Conducted Emission	$150\text{kHz} \leq f \leq 30\text{MHz}$	3.00dB

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

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.

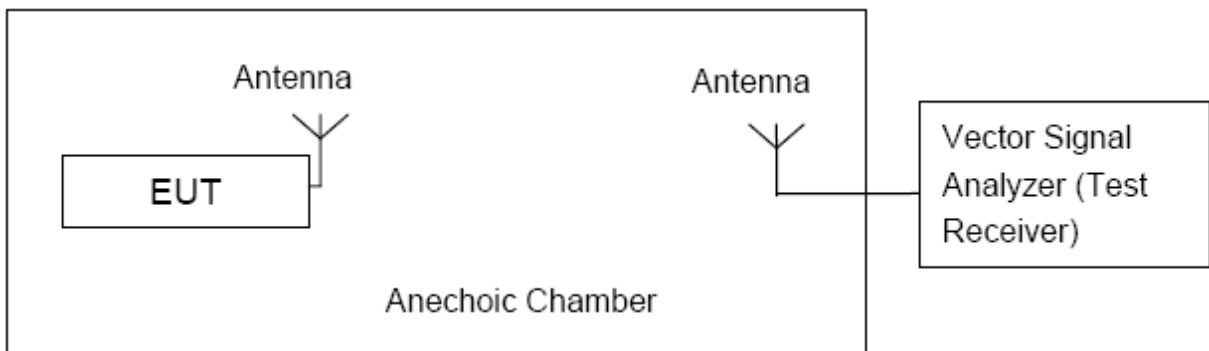


Radiated Emission Measurements

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

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

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



The measurement is made according to KDB 789033.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

A.2. Maximum Output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407	5150MHz~5250MHz	24
	5250MHz~5350MHz	24 or 11+10logB
	5725MHz~5850MHz	30

Limit use the less value, and B is the 26dB bandwidth.

Measurement of method: See ANSI C63.10-2013-Clause 12.3.3.2

Method PM-G is a measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Measurement Results:

802.11a mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
802.11a	5180MHz(Ch36)	18.07	18.02	18.01	17.98	17.95	17.97	17.94	17.90
	5200MHz(Ch40)	18.11	/	/	/	/	/	/	/
	5240MHz(Ch48)	18.19	/	/	/	/	/	/	/
	5260MHz(Ch52)	18.16	/	/	/	/	/	/	/
	5280MHz(Ch56)	18.26	/	/	/	/	/	/	/
	5320MHz(Ch64)	18.22	/	/	/	/	/	/	/
	5745MHz(Ch149)	17.89	/	/	/	/	/	/	/
	5785MHz(Ch157)	17.88	/	/	/	/	/	/	/
	5825MHz(Ch165)	17.85	/	/	/	/	/	/	/

802.11n-HT20 mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Index)							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT20)	5180MHz(Ch36)	16.51	16.47	15.44	15.39	15.41	15.36	15.33	15.32
	5200MHz(Ch40)	16.74	/	/	/	/	/	/	/
	5240MHz(Ch48)	16.87	/	/	/	/	/	/	/
	5260MHz(Ch52)	17.05	/	/	/	/	/	/	/
	5280MHz(Ch56)	17.11	/	/	/	/	/	/	/
	5320MHz(Ch64)	17.27	/	/	/	/	/	/	/
	5745MHz(Ch149)	17.02	/	/	/	/	/	/	/
	5785MHz(Ch157)	16.45	/	/	/	/	/	/	/
	5825MHz(Ch165)	16.48	/	/	/	/	/	/	/

802.11ac-VHT20 mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Index)							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (VHT20)	5180MHz(Ch36)	15.23	15.20	14.16	14.15	14.13	14.08	13.07	13.03
	5200MHz(Ch40)	15.31	/	/	/	/	/	/	/
	5240MHz(Ch48)	15.94	/	/	/	/	/	/	/
	5260MHz(Ch52)	16.13	/	/	/	/	/	/	/
	5280MHz(Ch56)	16.15	/	/	/	/	/	/	/
	5320MHz(Ch64)	16.23	/	/	/	/	/	/	/
	5745MHz(Ch149)	15.87	/	/	/	/	/	/	/
	5785MHz(Ch157)	15.93	/	/	/	/	/	/	/
	5825MHz(Ch165)	16.04	/	/	/	/	/	/	/

802.11n-HT40 mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Index)							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT40)	5190MHz(Ch38)	15.74	15.69	14.66	14.62	14.63	14.61	14.58	14.54
	5230MHz(Ch46)	15.93	/	/	/	/	/	/	/
	5270MHz(Ch54)	16.20	/	/	/	/	/	/	/
	5310MHz(Ch62)	16.14	/	/	/	/	/	/	/
	5755MHz(Ch151)	16.05	/	/	/	/	/	/	/
	5795MHz(Ch159)	15.93	/	/	/	/	/	/	/

802.11ac-VHT40 mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Index)							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (VHT40)	5190MHz(Ch38)	15.37	15.32	14.33	14.28	14.27	14.24	13.22	13.19
	5230MHz(Ch46)	15.77	/	/	/	/	/	/	/
	5270MHz(Ch54)	15.71	/	/	/	/	/	/	/
	5310MHz(Ch62)	15.97	/	/	/	/	/	/	/
	5755MHz(Ch151)	15.71	/	/	/	/	/	/	/
	5795MHz(Ch159)	15.54	/	/	/	/	/	/	/

802.11ac-VHT80 mode

Mode	Channel	Test Result (dBm)							
		Data Rate (Index)							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (VHT80)	5210MHz(Ch42)	15.57	15.54	14.52	14.47	14.46	14.44	13.40	13.39
	5290MHz(Ch58)	15.88	/	/	/	/	/	/	/
	5775MHz(Ch155)	15.57	/	/	/	/	/	/	/



Note: The data rate 6Mbps (11a mode), MCS0 (11n mode) and MCS0 (11ac mode) are selected as the worst case. 802.11a, 802.11n-HT40 and 802.11ac-VHT80 modes are selected as the worst case. The following cases and test graphs are performed with this condition. The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

A.3. Peak Power Spectral Density

Measurement Limit:

Standard	Frequency (MHz)	Limit
FCC CRF Part 15.407	5150MHz~5250MHz	11dBm/MHz
	5250MHz~5350MHz	11dBm/MHz
	5725MHz~5850MHz	30dBm/500KHz

The PPSD measurement method SA-1 is made according to KDB 789033.

Measurement Results:

5.2GHz Band (UNII-1)

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180MHz(Ch36)	7.21	P
	5200MHz(Ch40)	7.38	P
	5240MHz(Ch48)	7.66	P
802.11n HT40	5190MHz(Ch38)	2.44	P
	5230MHz(Ch46)	2.08	P
802.11ac VHT80	5210MHz(Ch42)	-2.12	P

5.3GHz Band (UNII-2A)

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5260MHz(Ch52)	7.60	P
	5280MHz(Ch56)	7.77	P
	5320MHz(Ch64)	7.54	P
802.11n HT40	5270MHz(Ch54)	2.60	P
	5310MHz(Ch62)	3.10	P
802.11ac VHT80	5290MHz(Ch58)	-1.73	P

5.8GHz Band (UNII-3)

Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
802.11a	5745MHz(CH149)	3.93	P
	5785MHz(CH157)	3.96	P
	5825MHz(CH165)	4.13	P
802.11n HT40	5755MHz(CH151)	-0.32	P
	5795MHz(CH159)	-0.52	P
802.11ac VHT80	5775MHz(CH155)	-4.78	P

Conclusion: PASS

A.4. Occupied 26dB Bandwidth

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403	/

The measurement is made according to KDB 789033.

Measurement Result:

Mode	Channel	Occupied 26dB Bandwidth (MHz)		Conclusion
802.11a	5180MHz(Ch36)	Fig.1	33.75	P
	5200MHz(Ch40)	Fig.2	31.80	P
	5240MHz(Ch48)	Fig.3	32.70	P
	5260MHz(Ch52)	Fig.4	31.90	P
	5280MHz(Ch56)	Fig.5	32.40	P
	5320MHz(Ch64)	Fig.6	36.00	P
802.11n HT40	5190MHz(Ch38)	Fig.7	65.68	P
	5230MHz(Ch46)	Fig.8	67.12	P
	5270MHz(Ch54)	Fig.9	62.56	P
	5310MHz(Ch62)	Fig.10	65.68	P
802.11ac VHT80	5210MHz(Ch42)	Fig.11	81.44	P
	5290MHz(Ch58)	Fig.12	81.28	P

Conclusion: PASS

Test graphs as below:

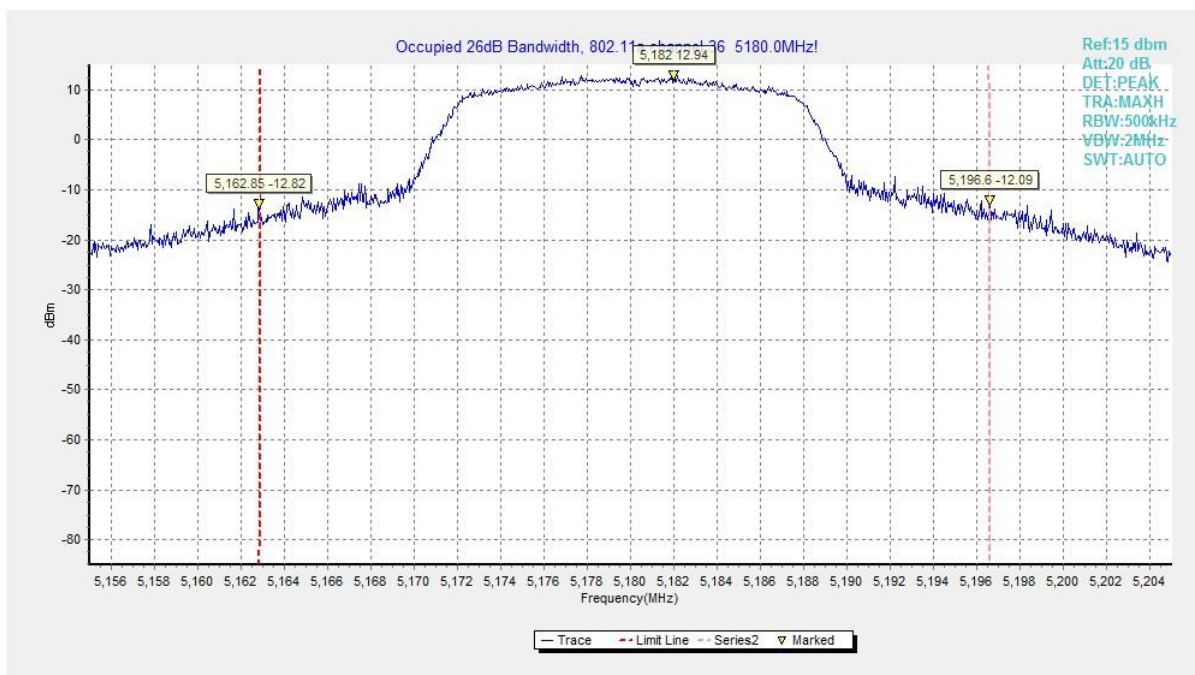


Fig. 1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

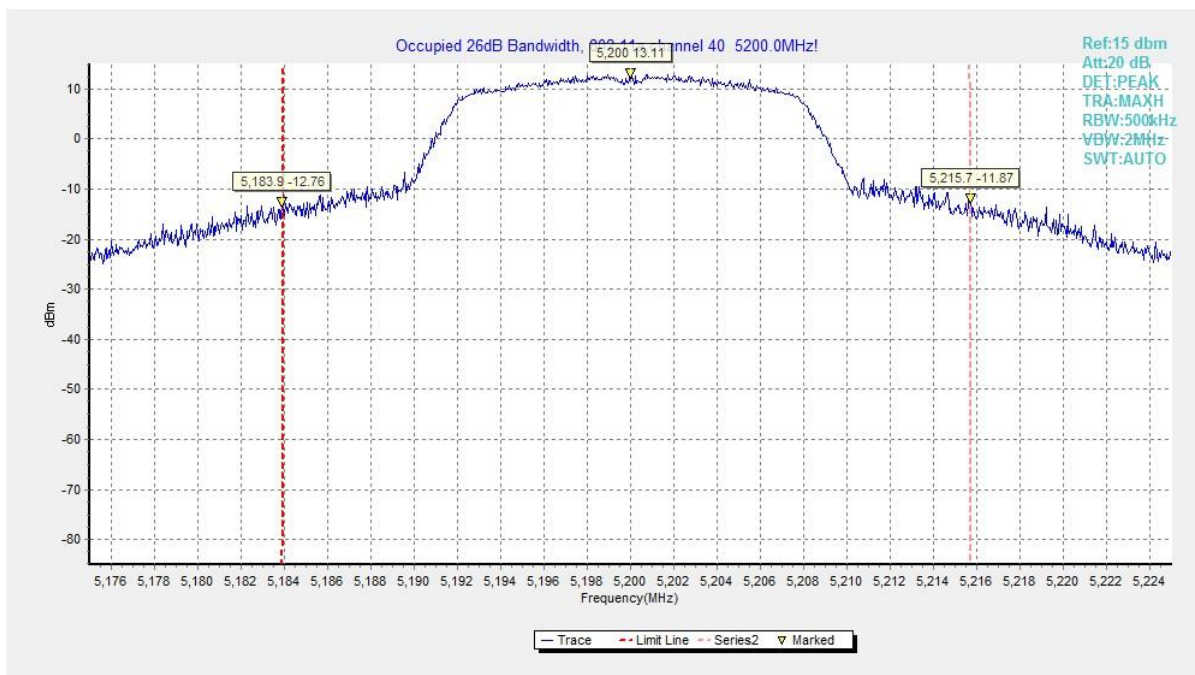


Fig. 2 Occupied 26dB Bandwidth (802.11a, 5200MHz)

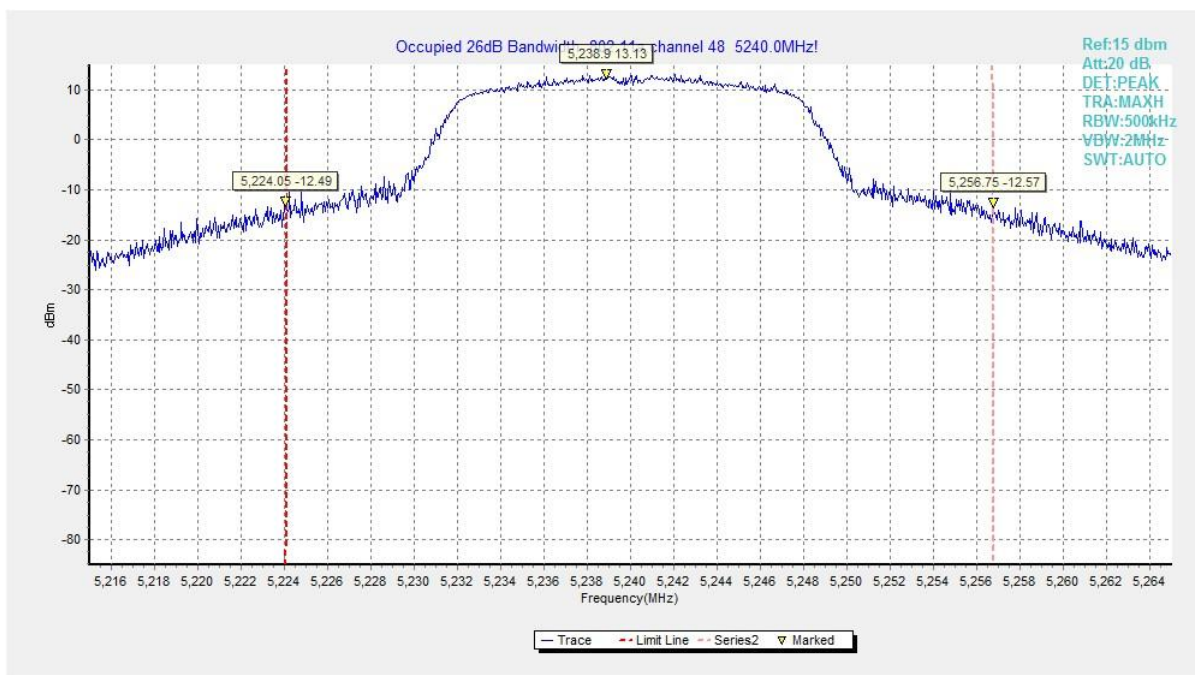


Fig. 3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

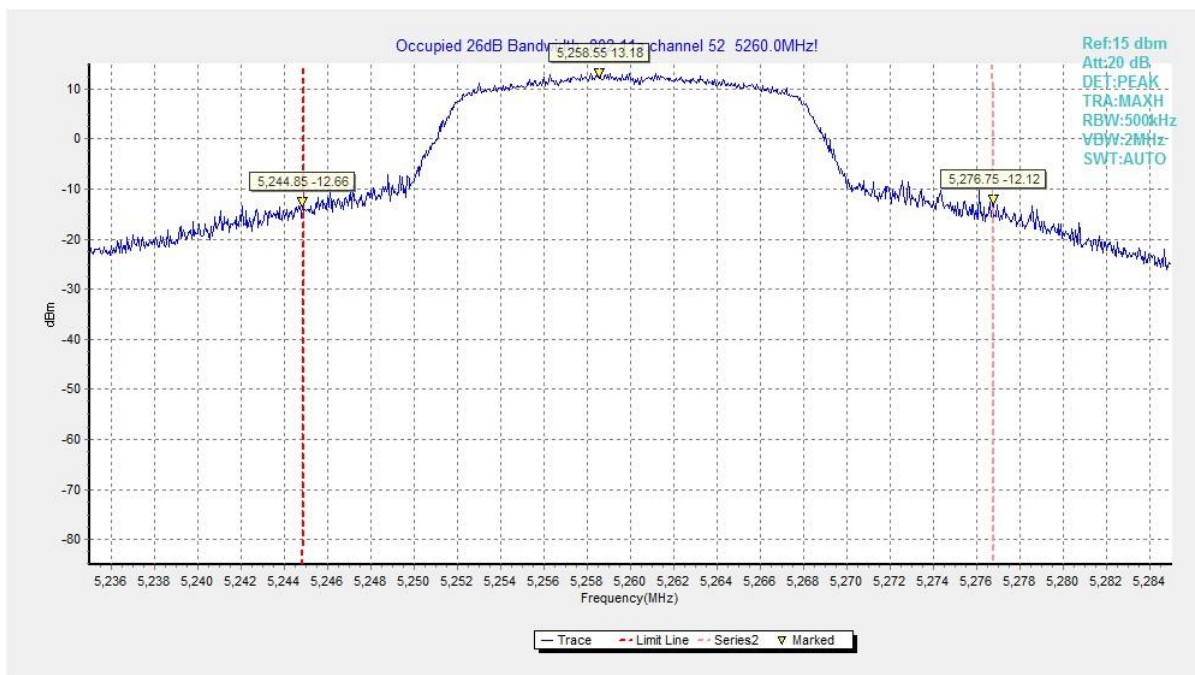


Fig. 4 Occupied 26dB Bandwidth (802.11a, 5260MHz)

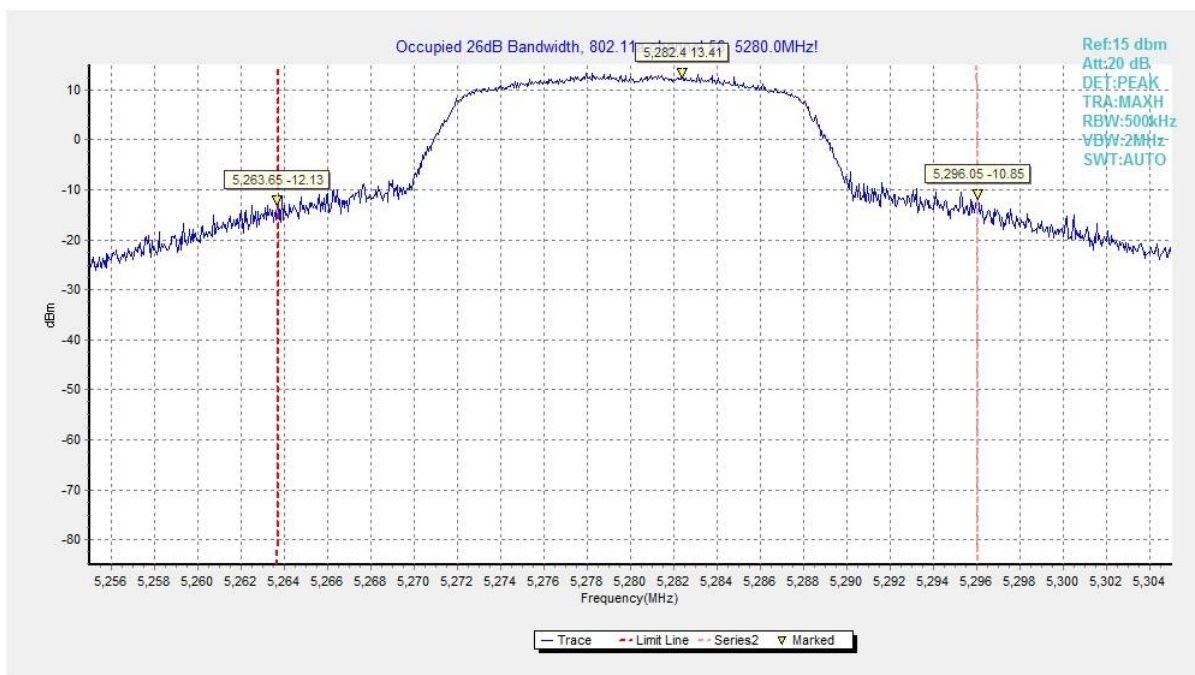


Fig. 5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

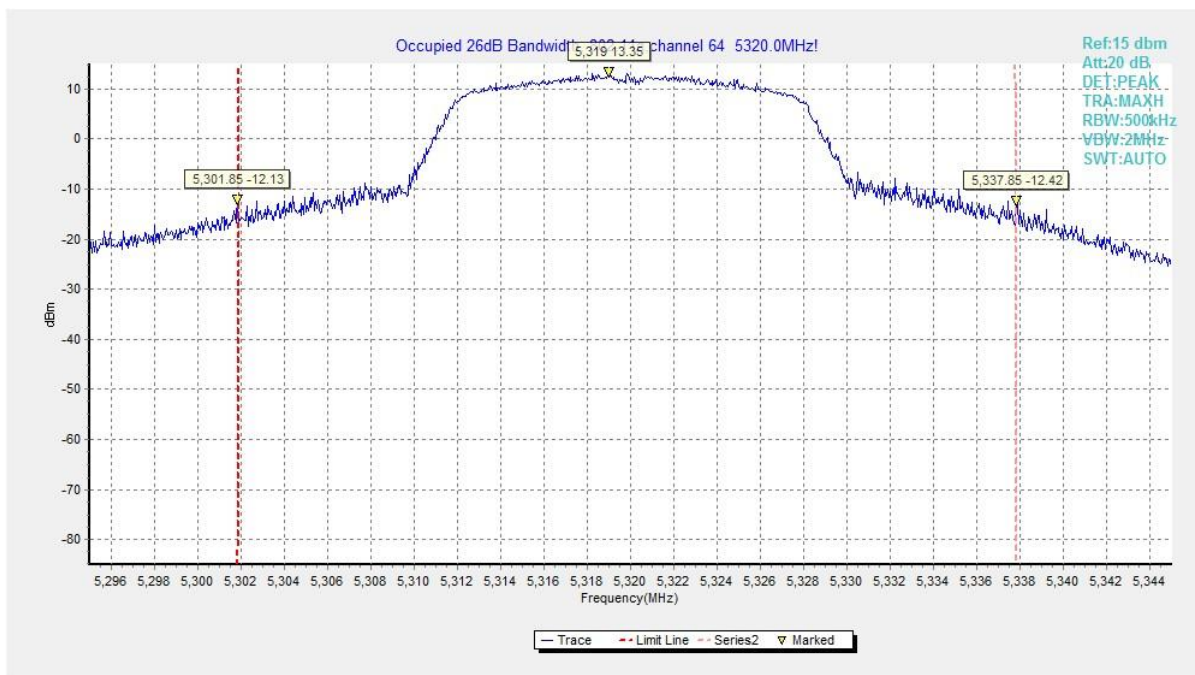


Fig. 6 Occupied 26dB Bandwidth (802.11a, 5320MHz)



Fig. 7 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)

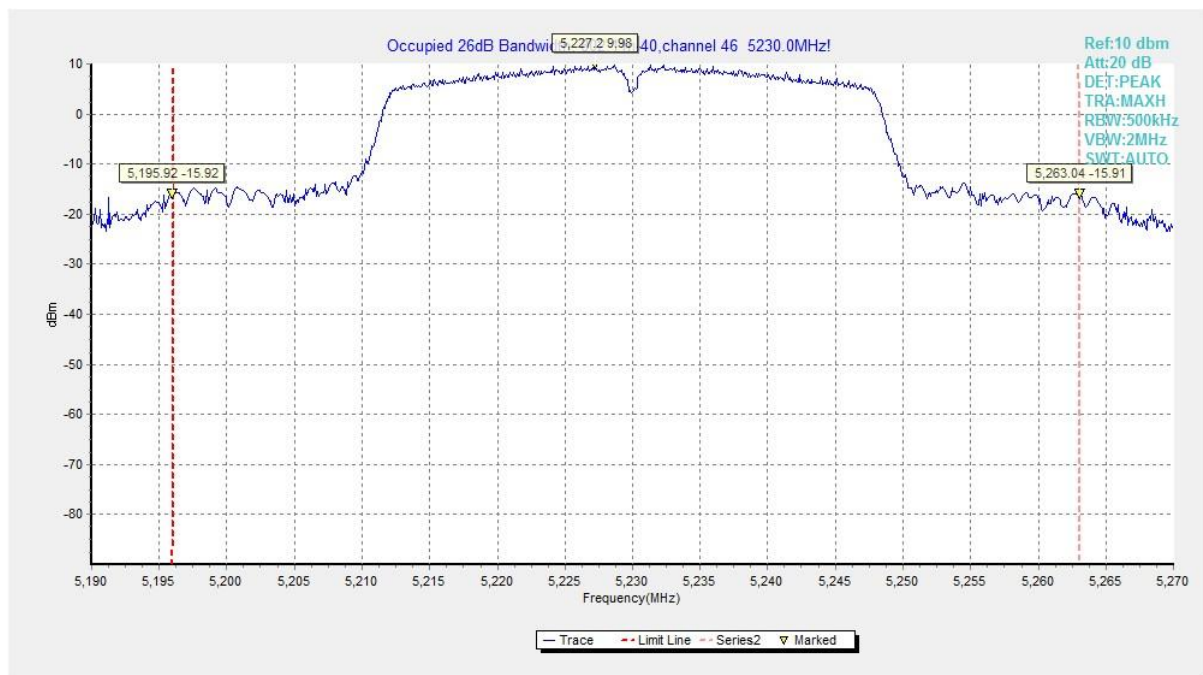


Fig. 8 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)

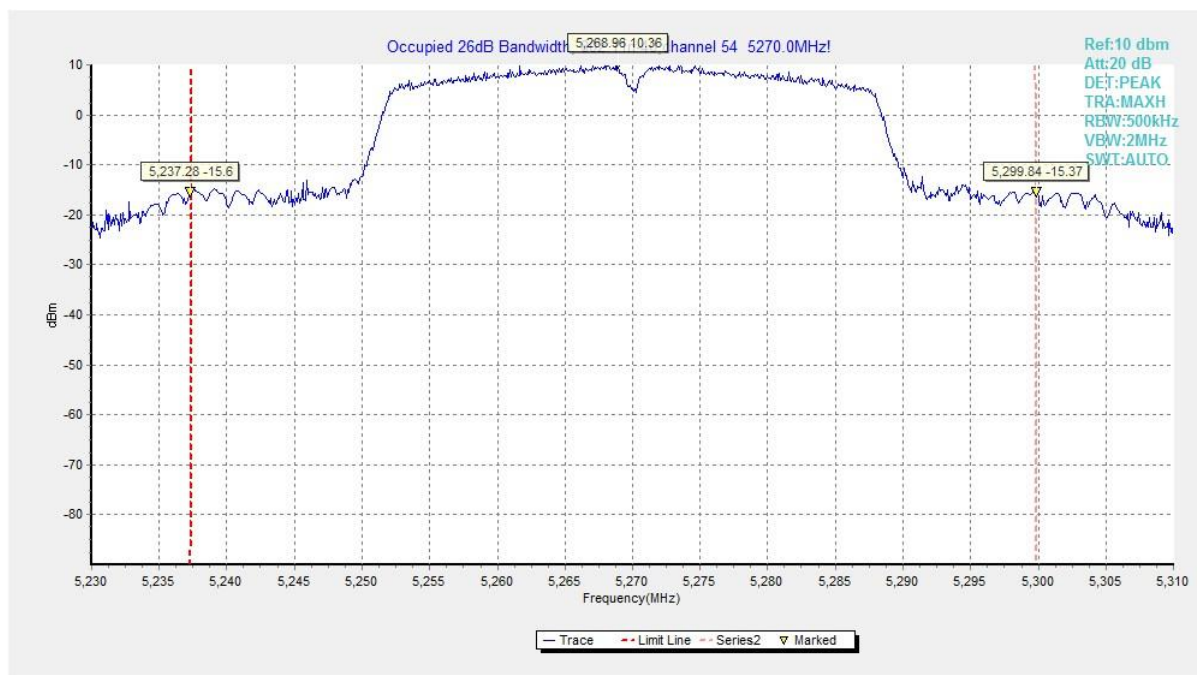


Fig. 9 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)

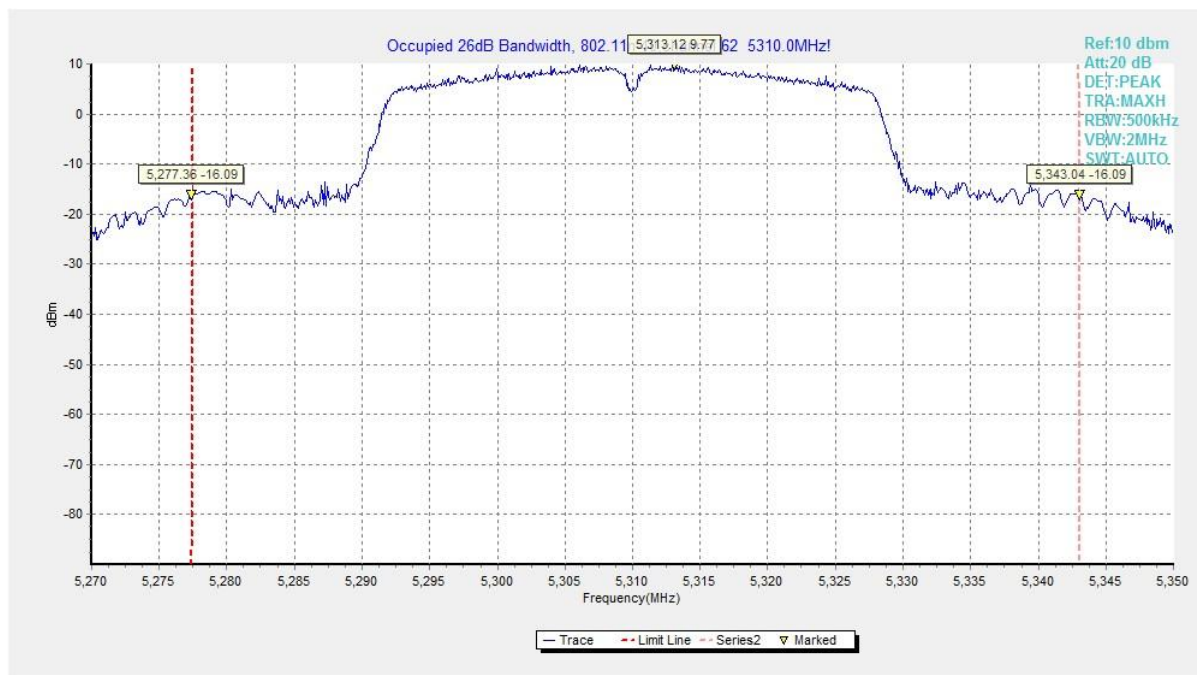


Fig. 10 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)

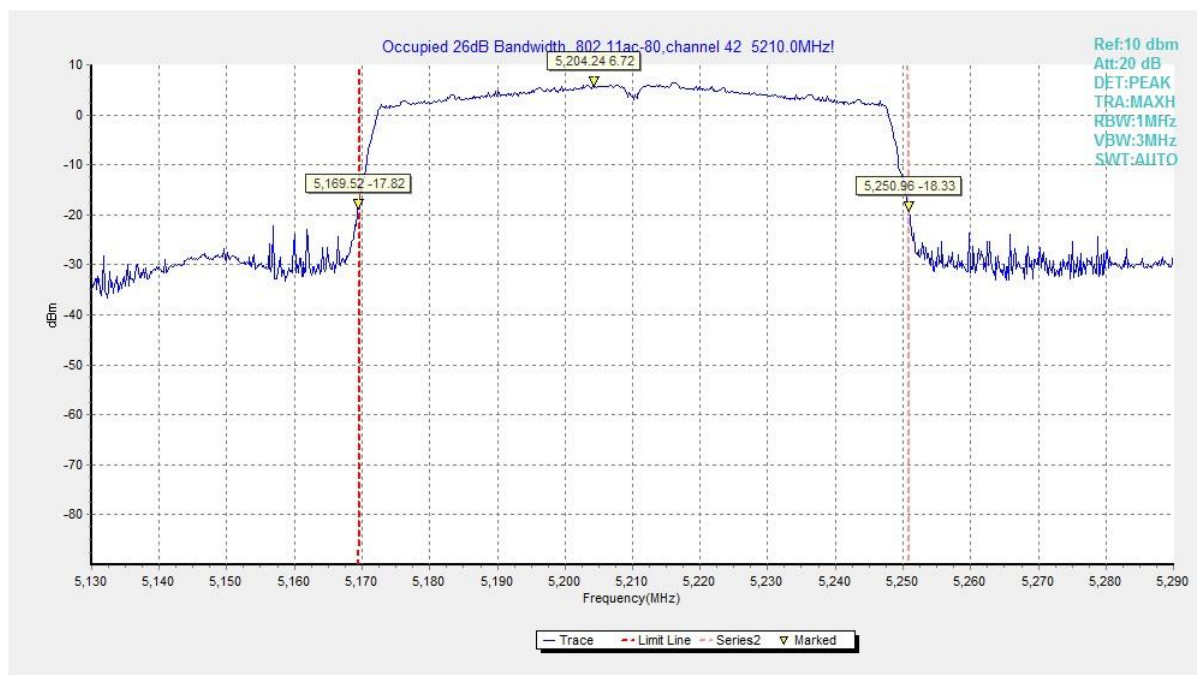


Fig. 11 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5210MHz)

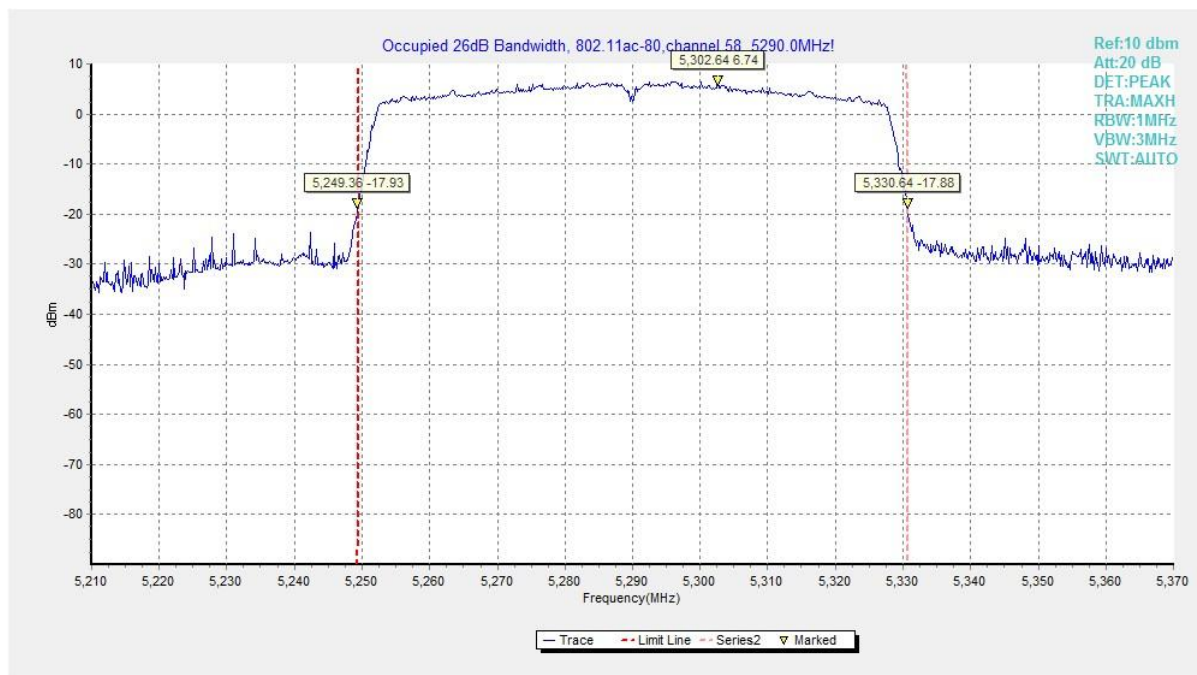


Fig. 12 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5290MHz)

A.5. Occupied 6dB Bandwidth

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.407	≥ 0.5

The measurement is made according to KDB 789033.

Measurement Result:

Mode	Channel	Occupied 6dB Bandwidth (MHz)		Conclusion
802.11a	5745MHz(Ch149)	Fig.13	15.15	P
	5785MHz(Ch157)	Fig.14	15.15	P
	5825MHz(Ch165)	Fig.15	15.15	P
802.11n HT40	5755MHz(Ch151)	Fig.16	35.12	P
	5795MHz(Ch159)	Fig.17	35.12	P
802.11ac VHT80	5775MHz(Ch155)	Fig.18	75.20	P

Conclusion: PASS

Test graphs as below:

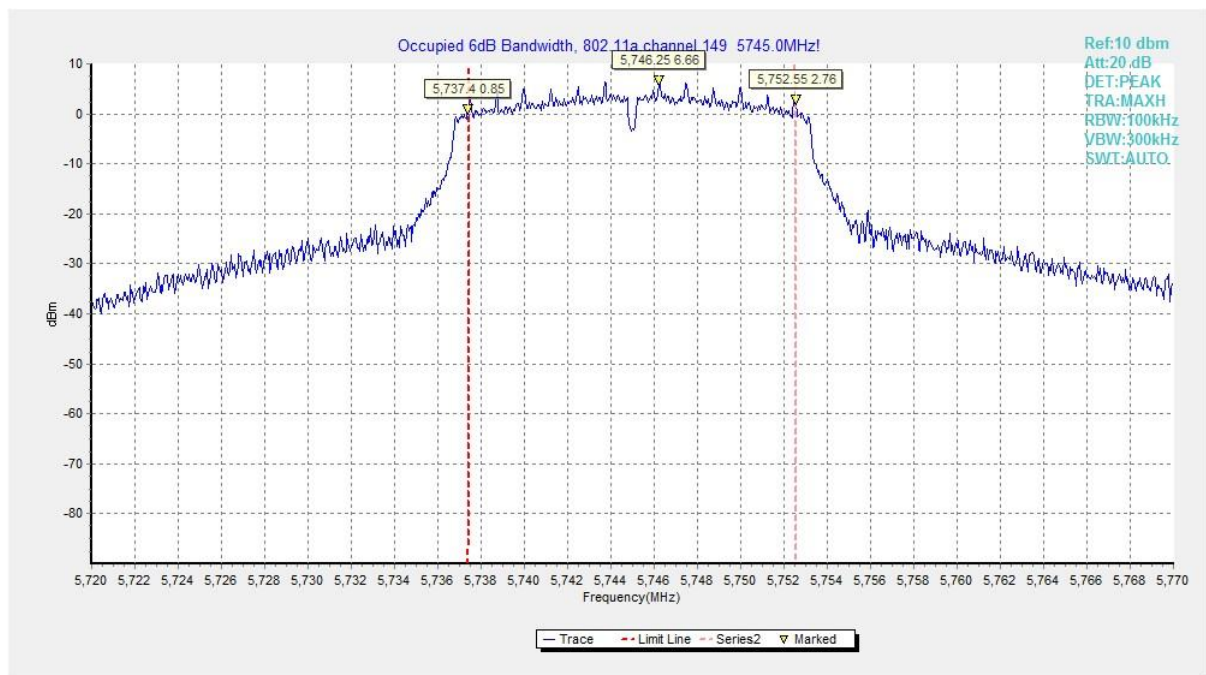


Fig. 13 Occupied 6dB Bandwidth (802.11a, 5745MHz)

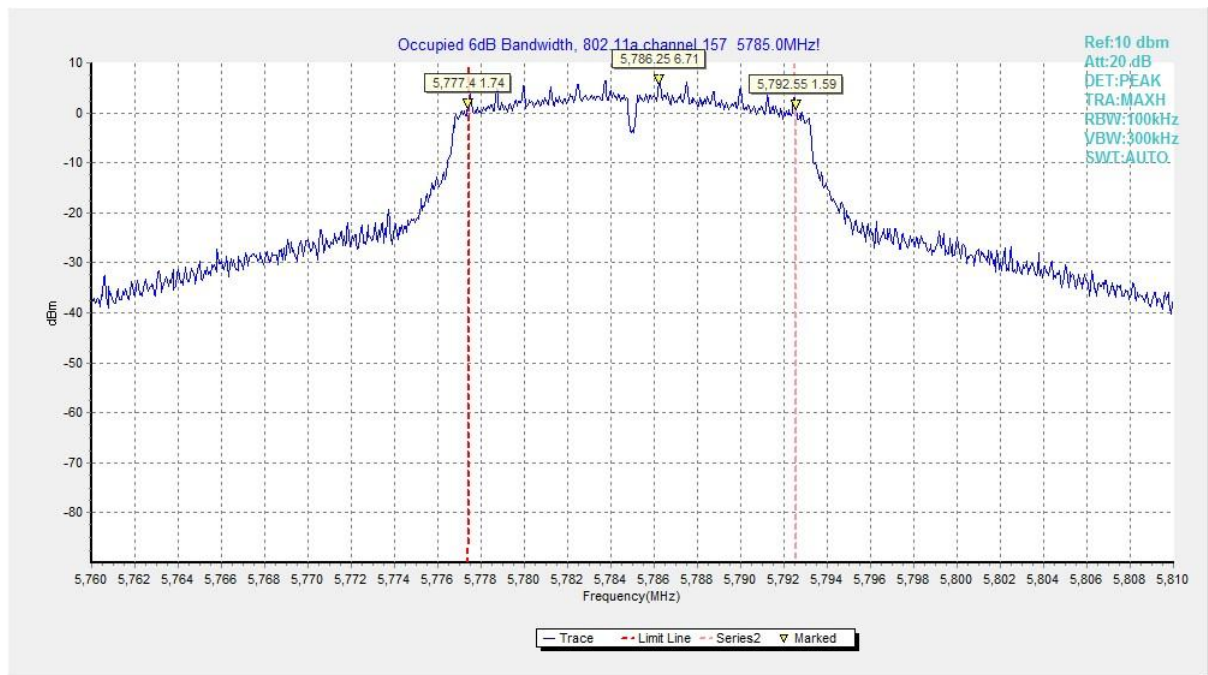


Fig. 14 Occupied 6dB Bandwidth (802.11a, 5785MHz)

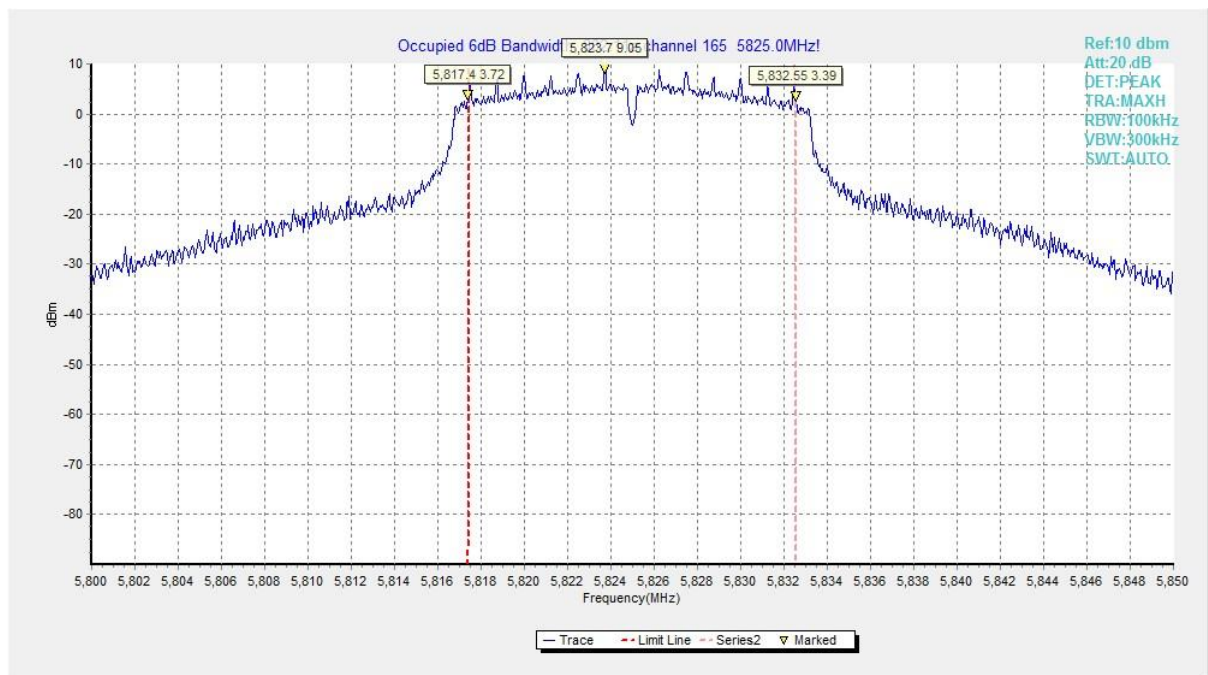


Fig. 15 Occupied 6dB Bandwidth (802.11a, 5825MHz)

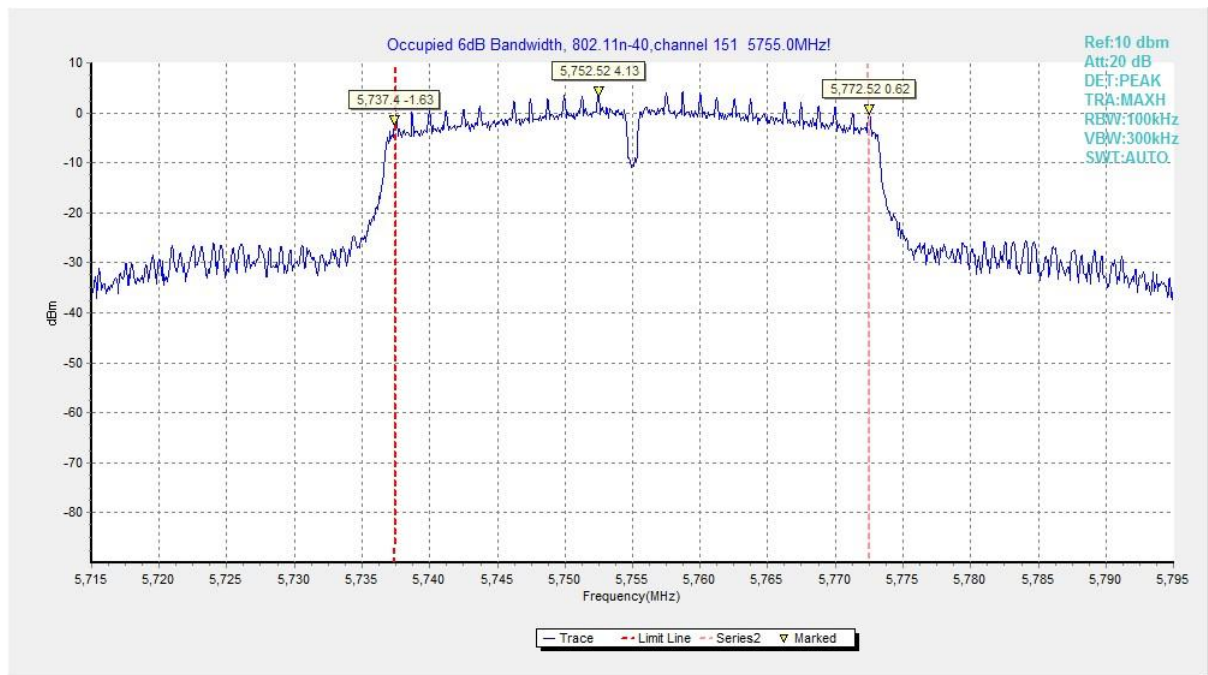


Fig. 16 Occupied 6dB Bandwidth (802.11n-HT40, 5755MHz)

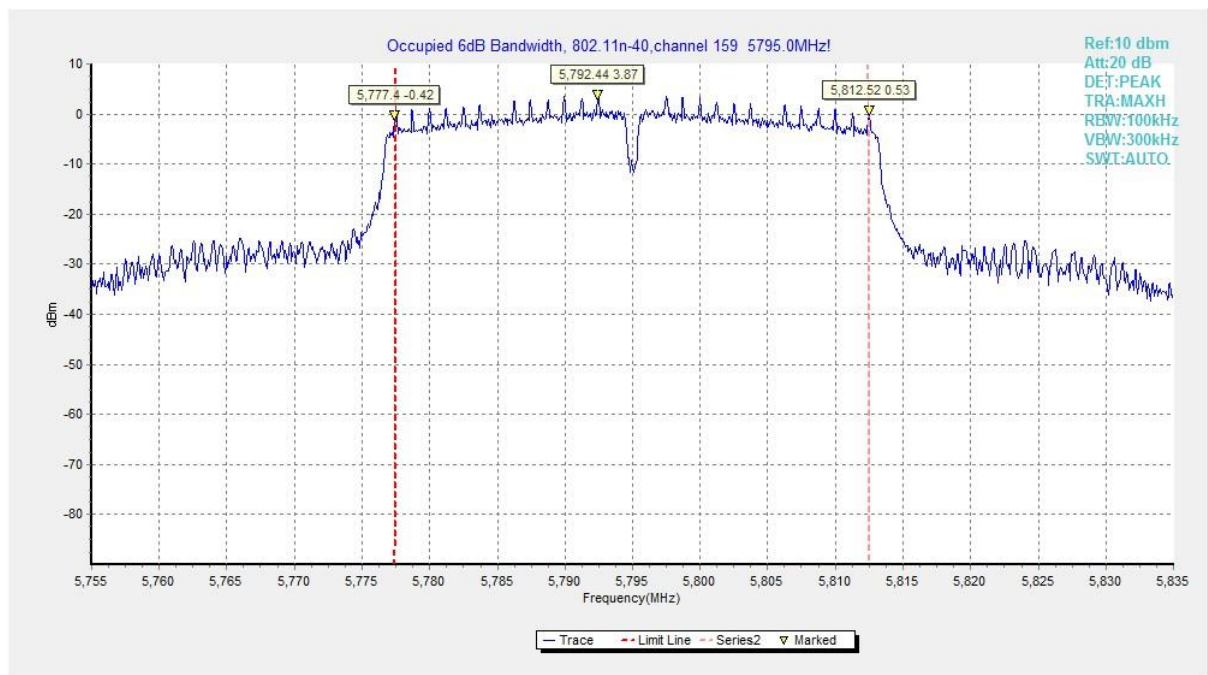


Fig. 17 Occupied 6dB Bandwidth (802.11n-HT40, 5795MHz)

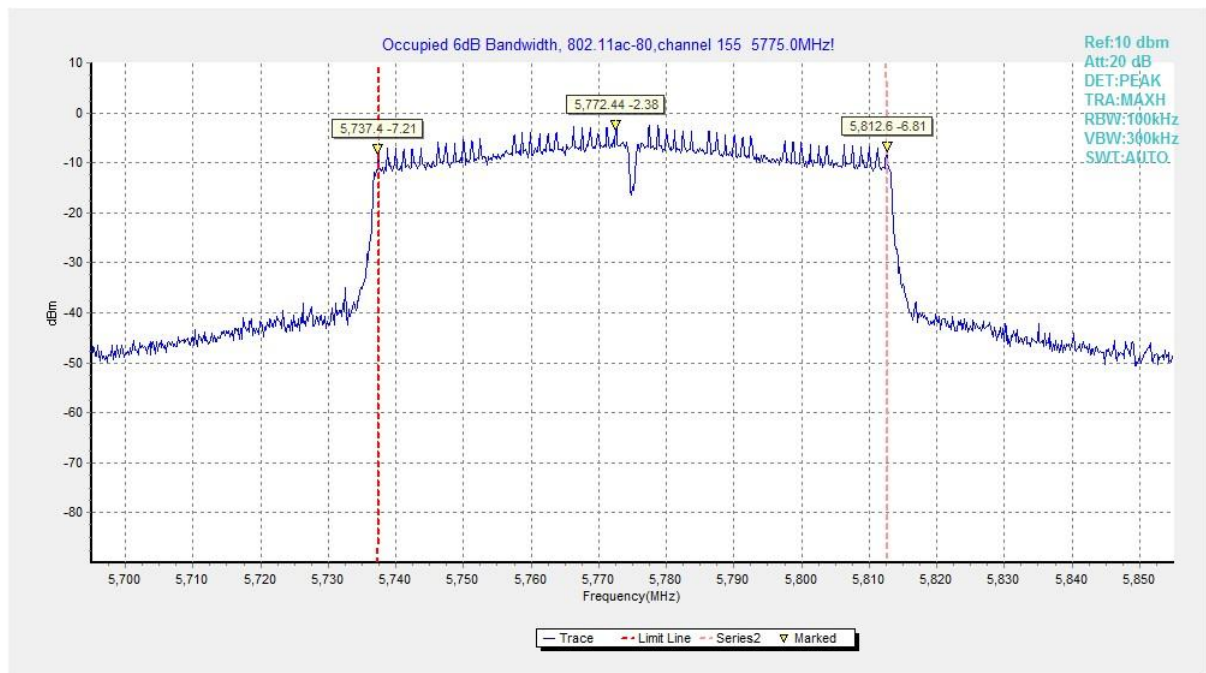


Fig. 18 Occupied 6dB Bandwidth (802.11ac-VHT80, 5775MHz)

A.6. 99% Occupied Bandwidth

Measurement Limit:

Standard	Limit (MHz)
FCC 47 CFR Part 15.403	/

The measurement is made according to KDB 789033.

Measurement Result:

Mode	Channel	99% Occupied Bandwidth (MHz)		Conclusion
802.11a	5180MHz(Ch36)	Fig.19	17.88	P
	5200MHz(Ch40)	Fig.20	17.88	P
	5240MHz(Ch48)	Fig.21	17.88	P
	5260MHz(Ch52)	Fig.22	17.88	P
	5280MHz(Ch56)	Fig.23	17.84	P
	5320MHz(Ch64)	Fig.24	17.92	P
	5745MHz(Ch149)	Fig.25	17.72	P
	5785MHz(Ch157)	Fig.26	17.80	P
	5825MHz(Ch165)	Fig.27	17.64	P
802.11n HT40	5190MHz(Ch38)	Fig.28	36.64	P
	5230MHz(Ch46)	Fig.29	36.64	P
	5270MHz(Ch54)	Fig.30	36.64	P
	5310MHz(Ch62)	Fig.31	36.56	P
	5755MHz(Ch151)	Fig.32	36.56	P
	5795MHz(Ch159)	Fig.33	36.72	P
802.11ac VHT80	5210MHz(Ch42)	Fig.34	75.36	P
	5290MHz(Ch58)	Fig.35	75.36	P
	5775MHz(Ch155)	Fig.36	75.20	P

Conclusion: PASS

Test graphs as below:

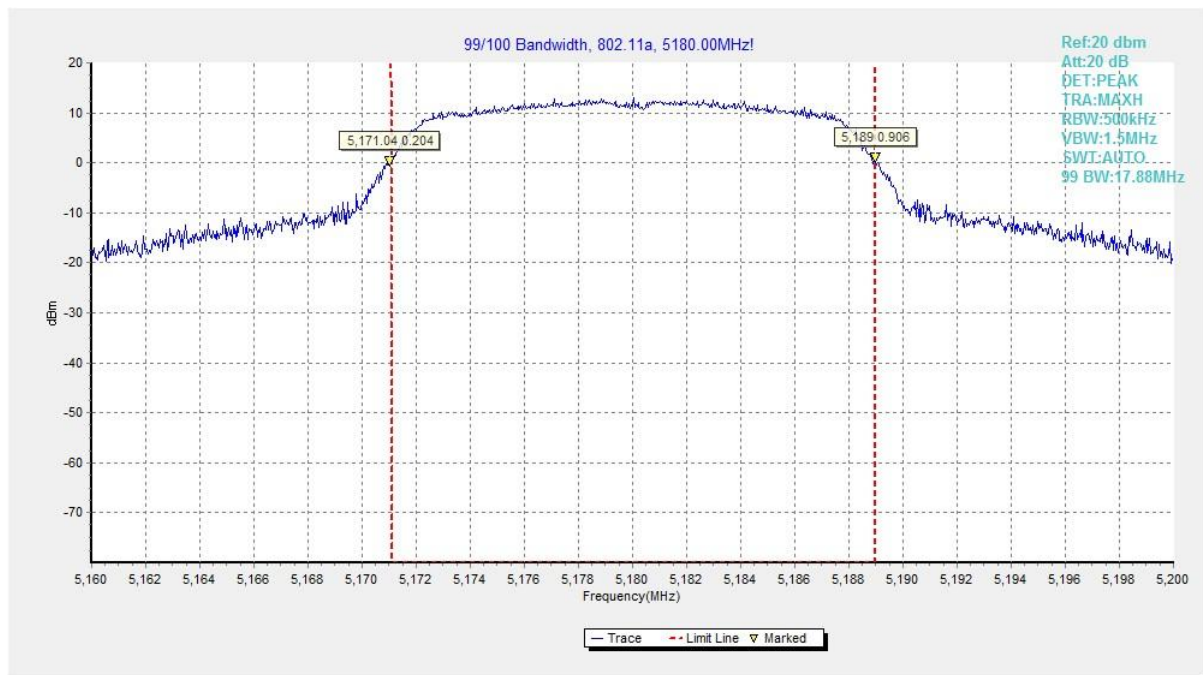


Fig. 19 99% Occupied Bandwidth (802.11a, 5180MHz)

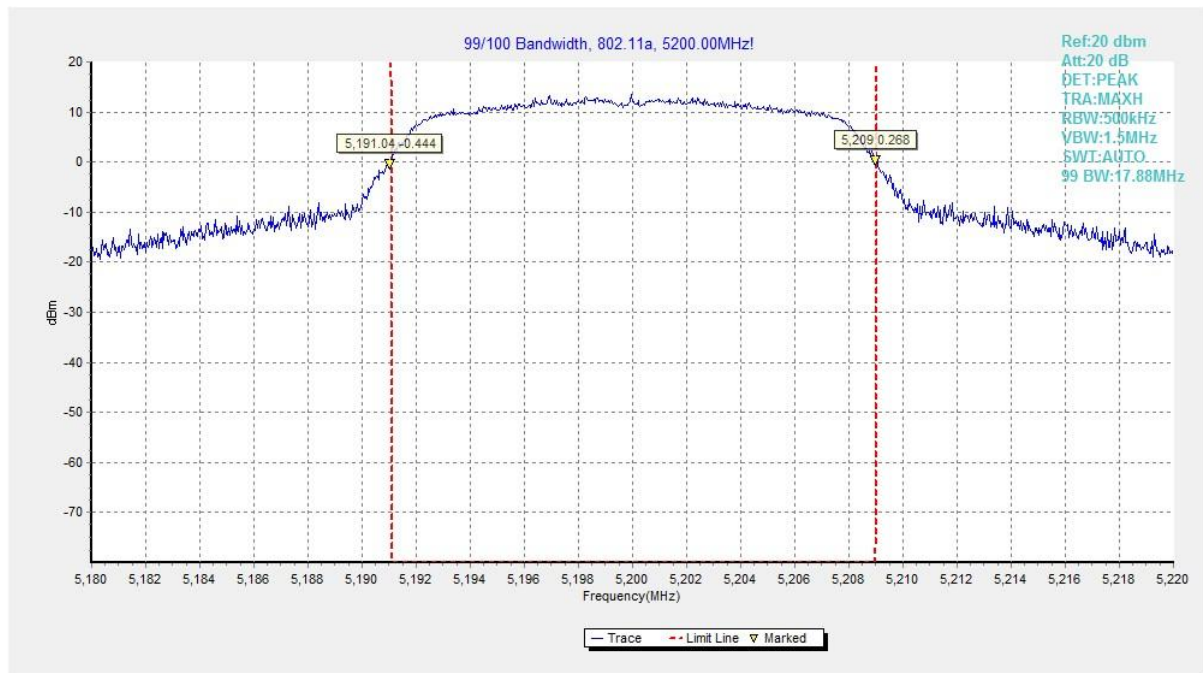


Fig. 20 99% Occupied Bandwidth (802.11a, 5200MHz)

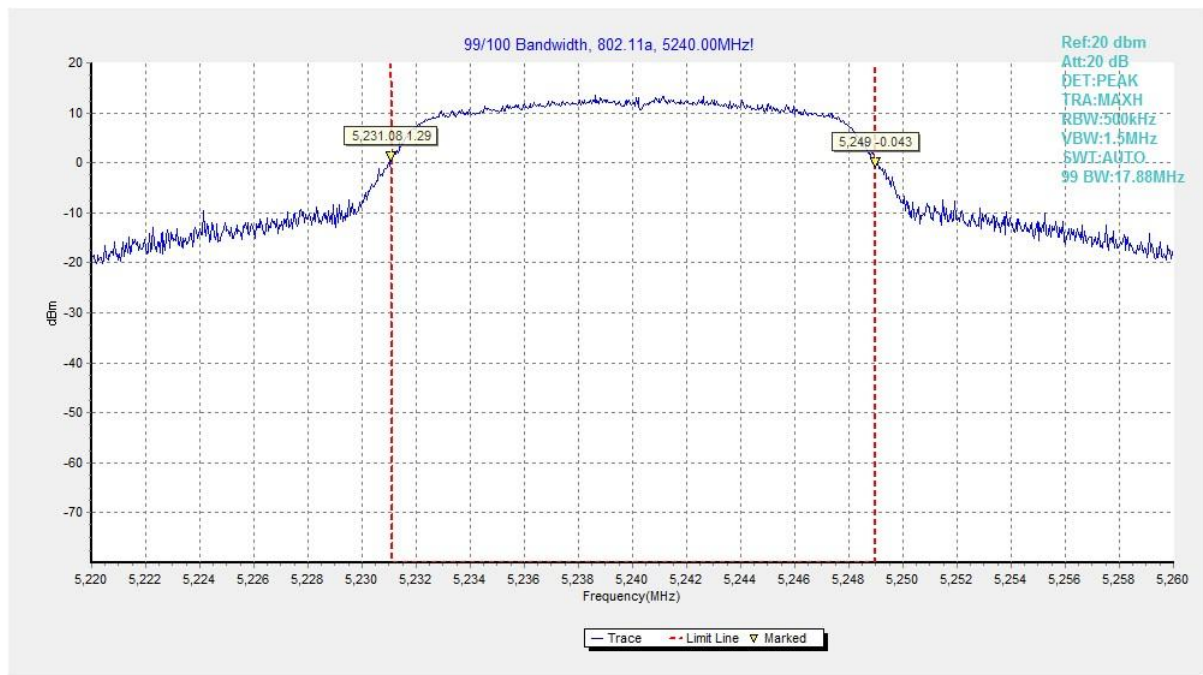


Fig. 21 99% Occupied Bandwidth (802.11a, 5240MHz)

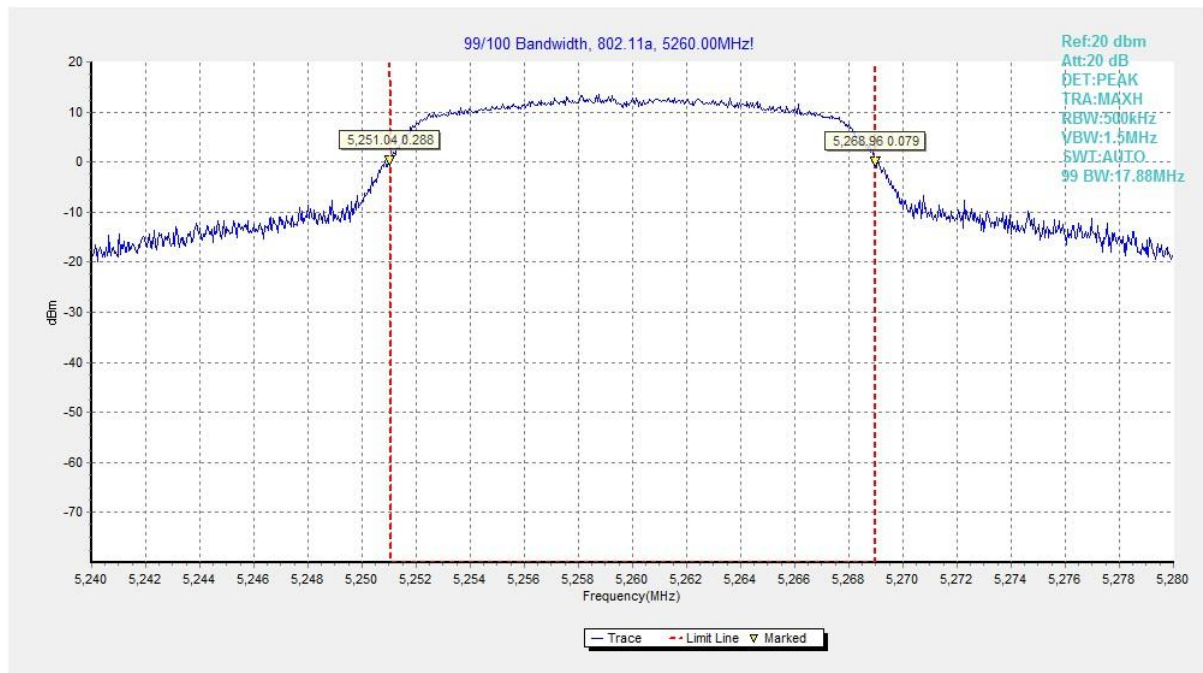


Fig. 22 99% Occupied Bandwidth (802.11a, 5260MHz)

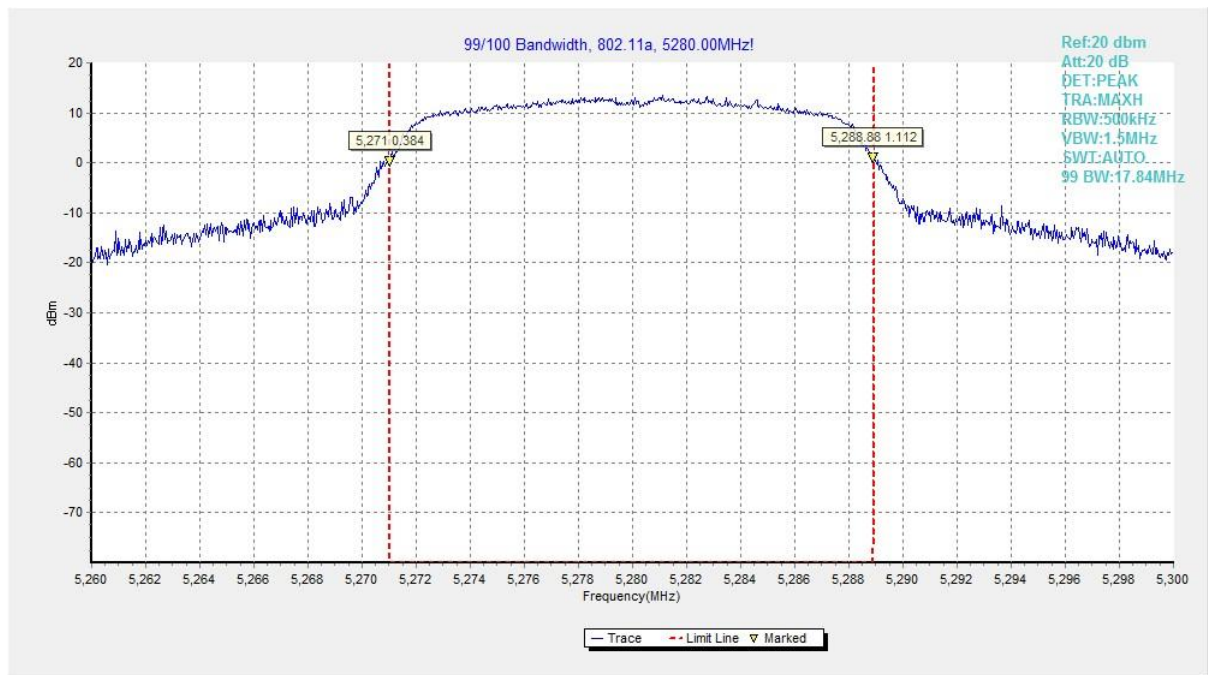


Fig. 23 99% Occupied Bandwidth (802.11a, 5280MHz)

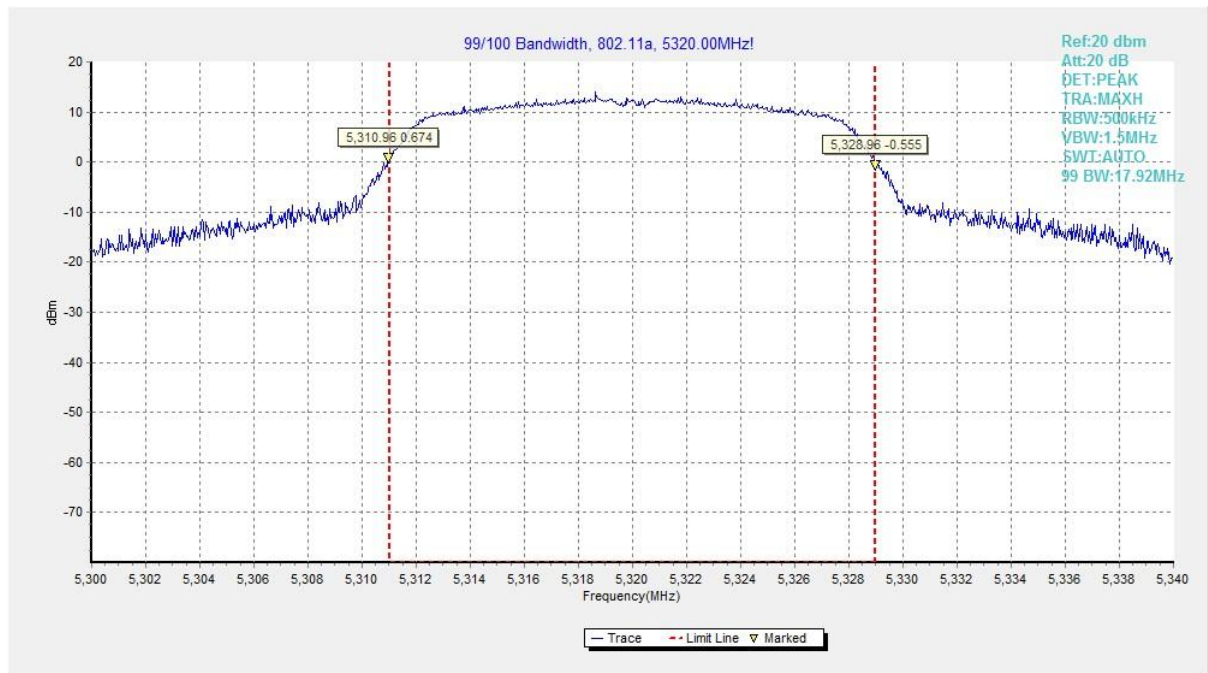


Fig. 24 99% Occupied Bandwidth (802.11a, 5320MHz)

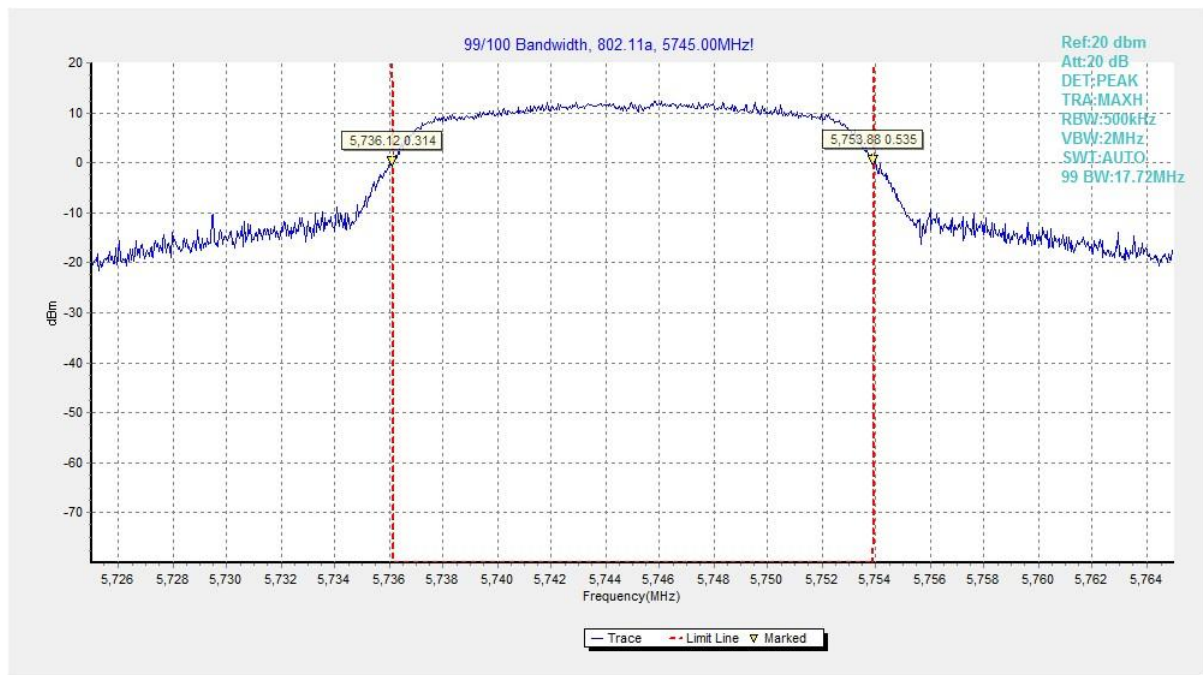


Fig. 25 99% Occupied Bandwidth (802.11a, 5745MHz)

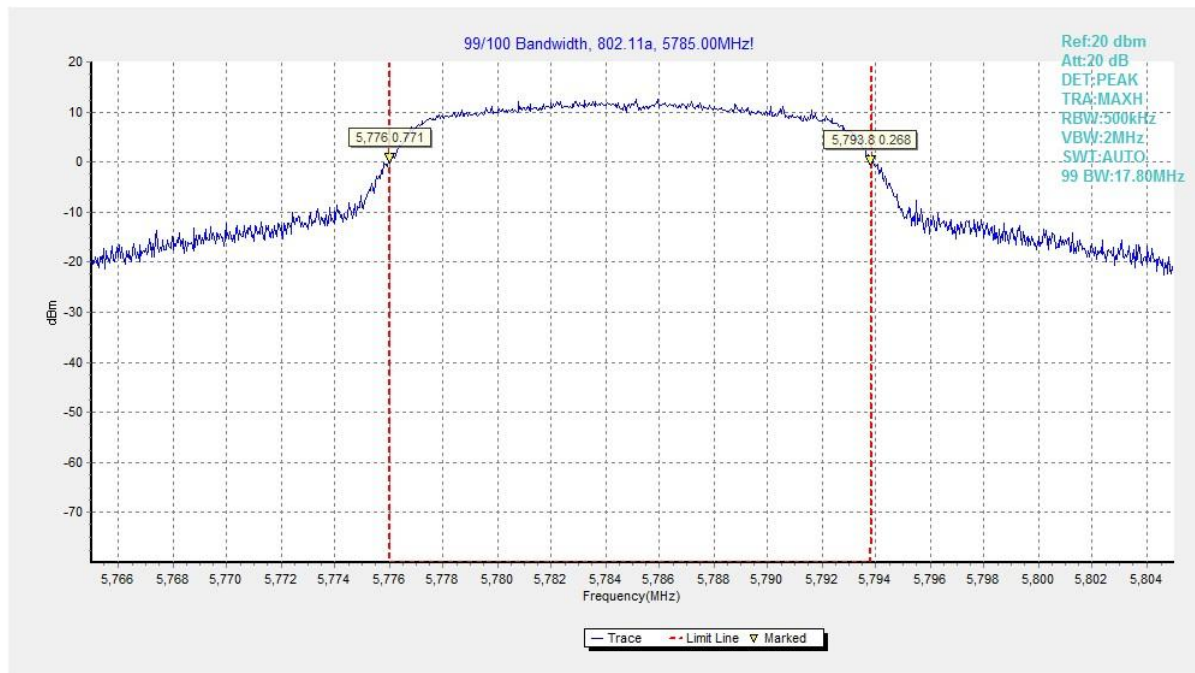


Fig. 26 99% Occupied Bandwidth (802.11a, 5785MHz)

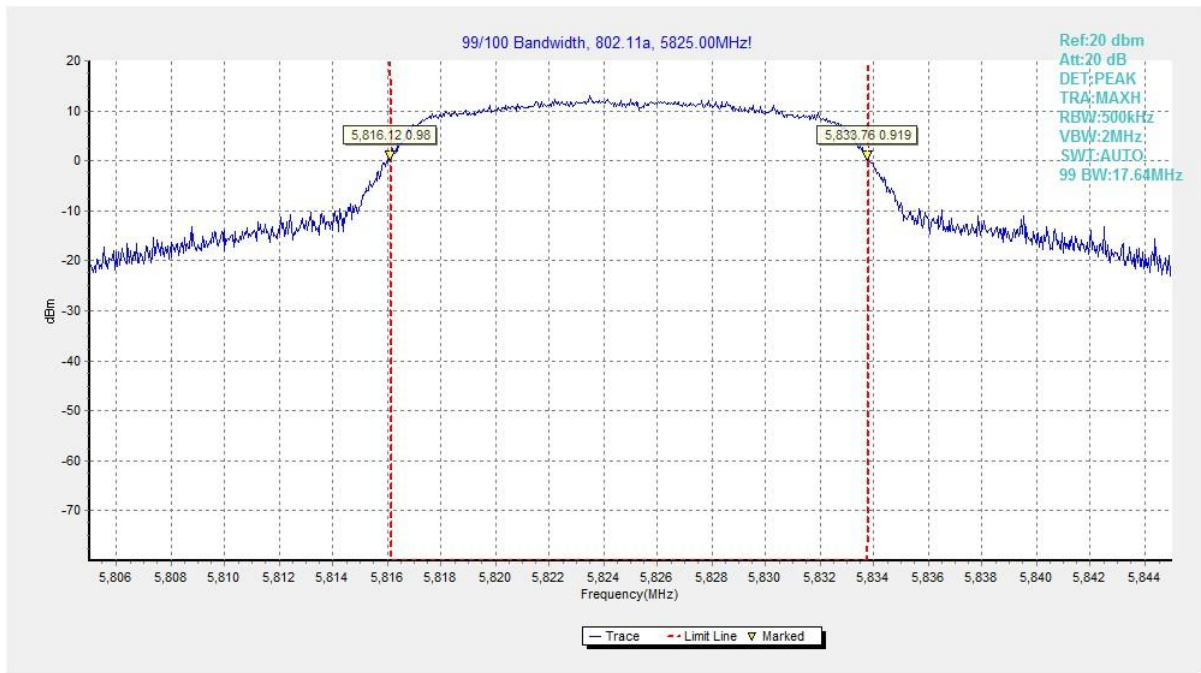


Fig. 27 99% Occupied Bandwidth (802.11a, 5825MHz)

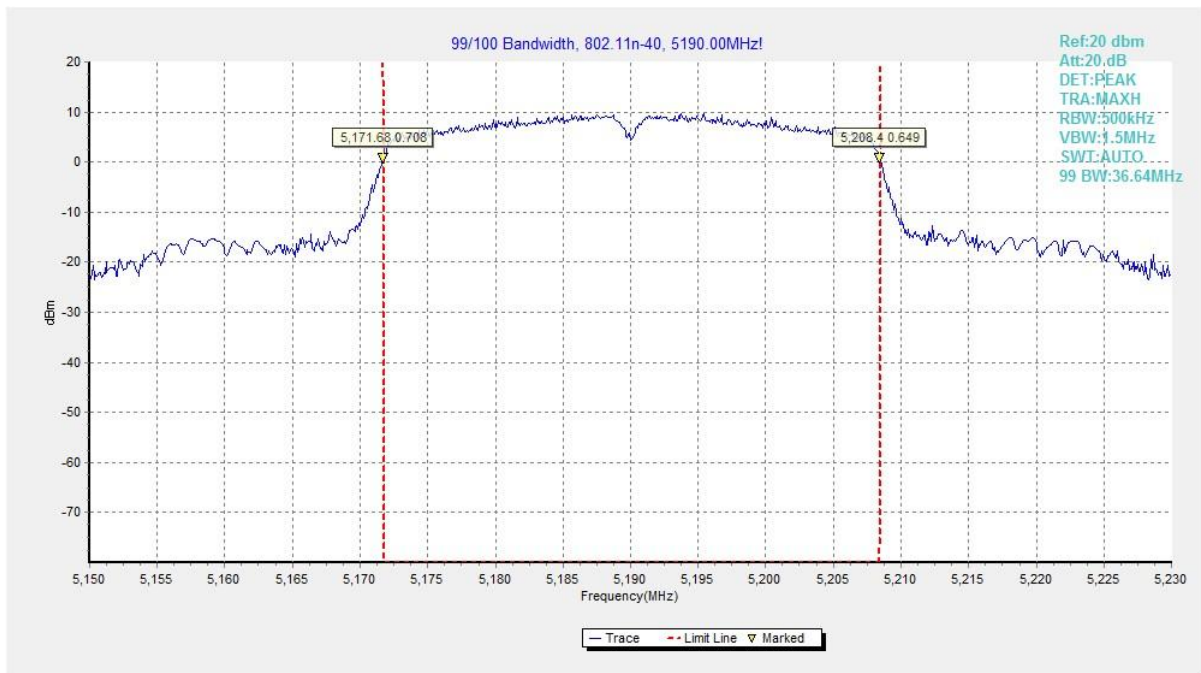


Fig. 28 99% Occupied Bandwidth (802.11n-HT40, 5190MHz)

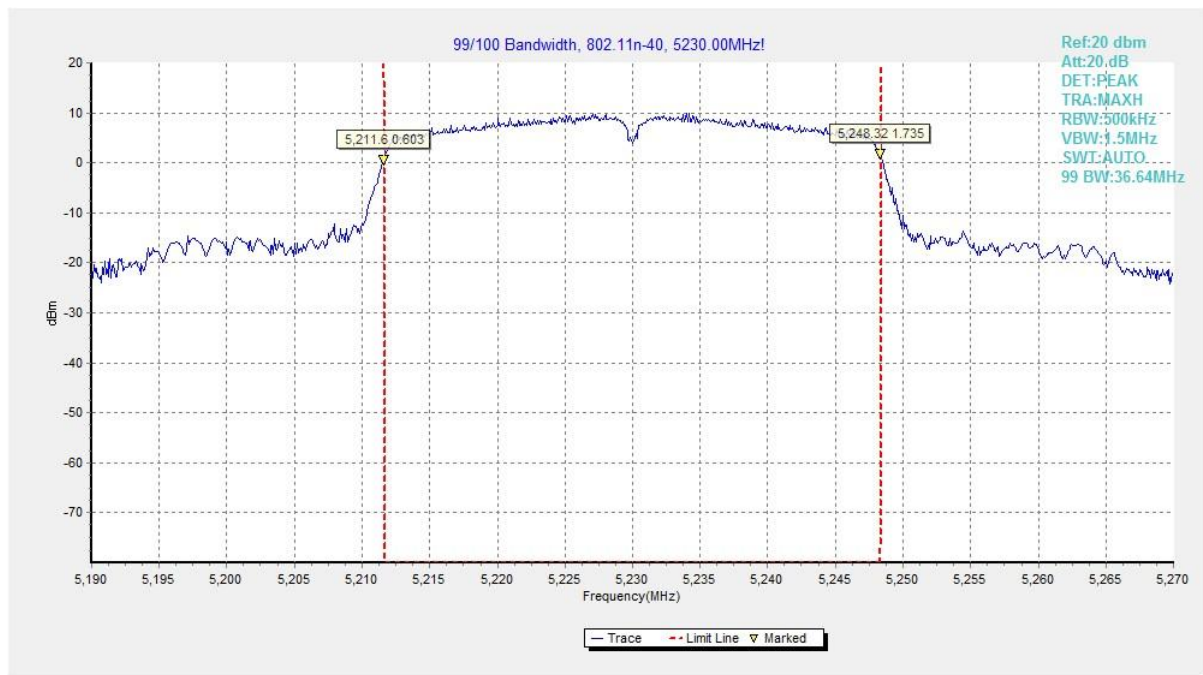


Fig. 29 99% Occupied Bandwidth (802.11n-HT40, 5230MHz)

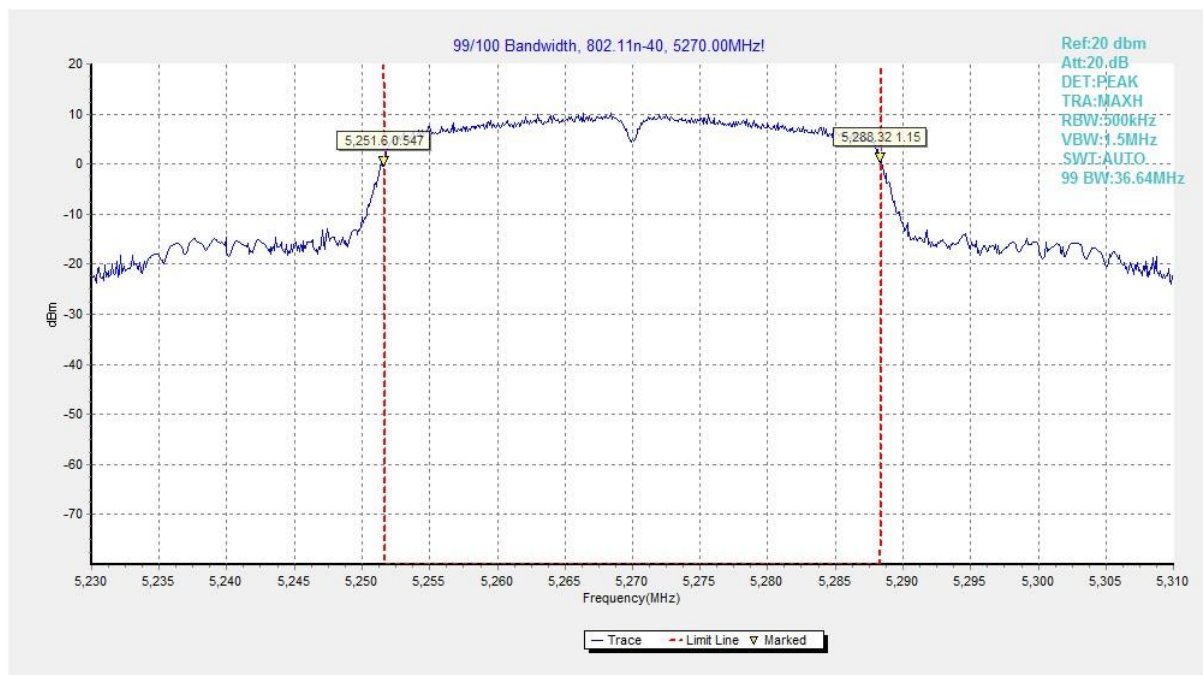


Fig. 30 99% Occupied Bandwidth (802.11n-HT40, 5270MHz)

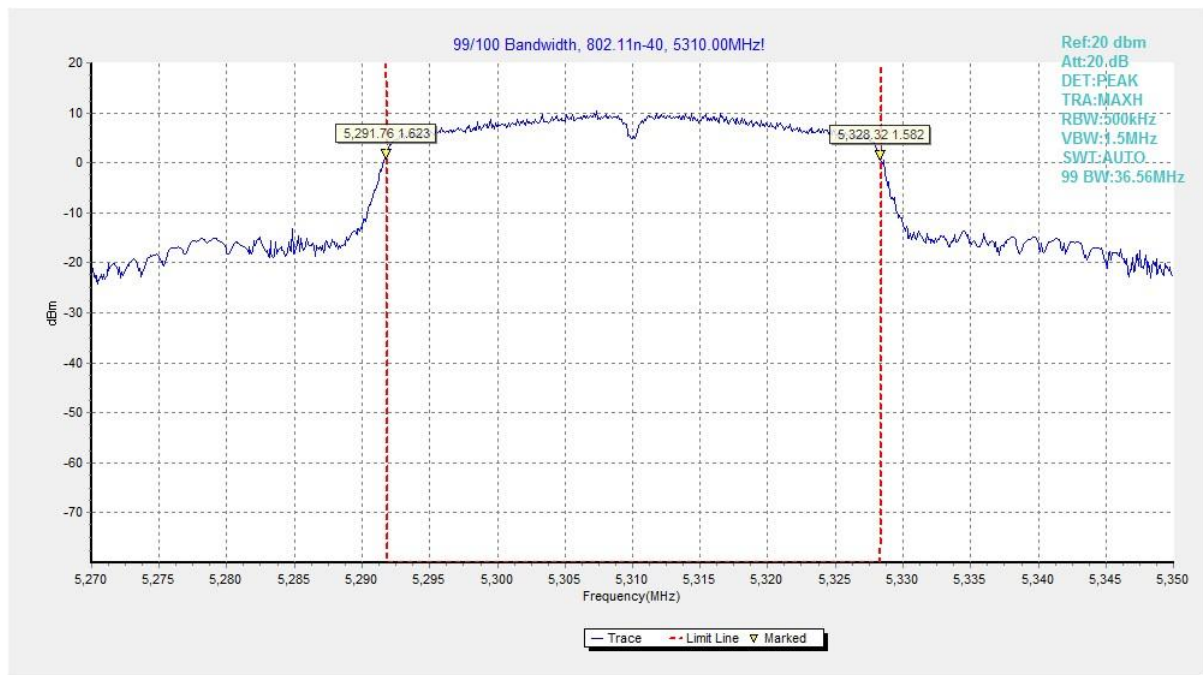


Fig. 31 99% Occupied Bandwidth (802.11n-HT40, 5310MHz)

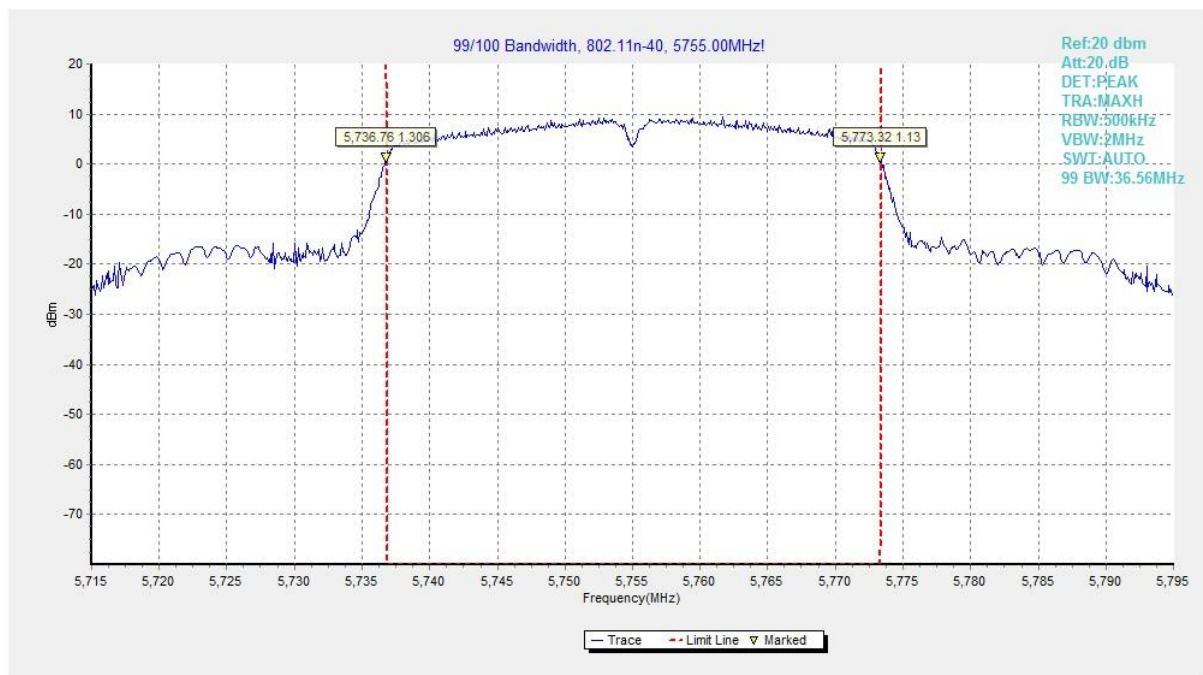


Fig. 32 99% Occupied Bandwidth (802.11n-HT40, 5755MHz)

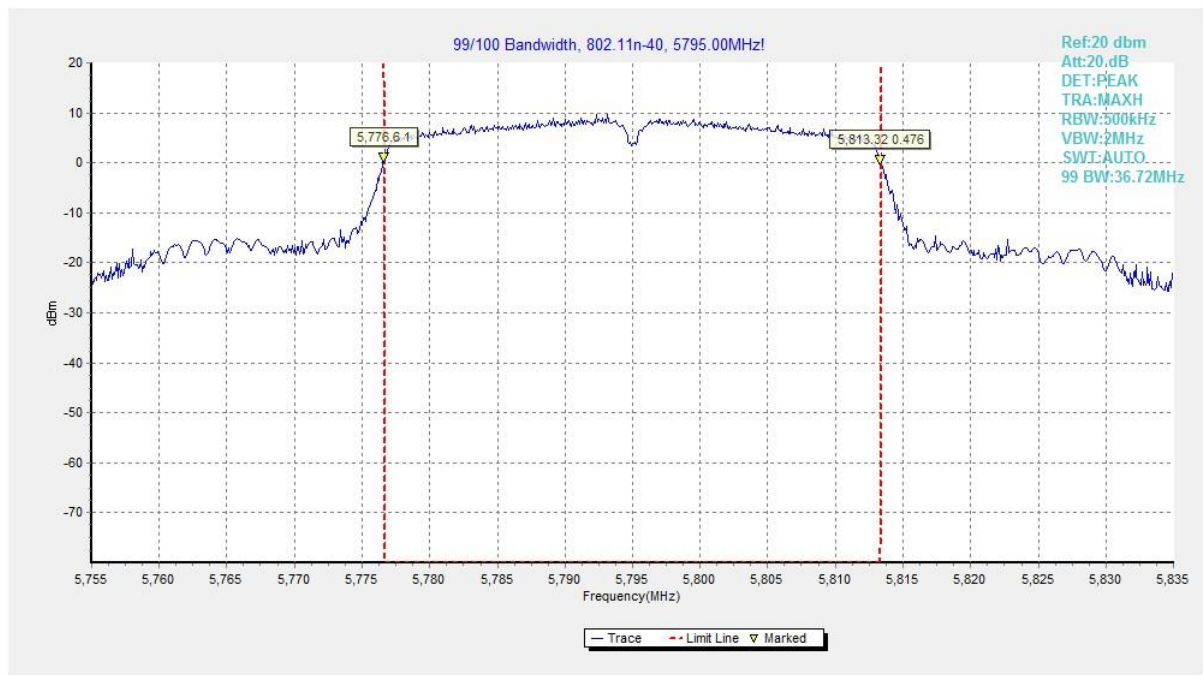


Fig. 33 99% Occupied Bandwidth (802.11n-HT40, 5795MHz)

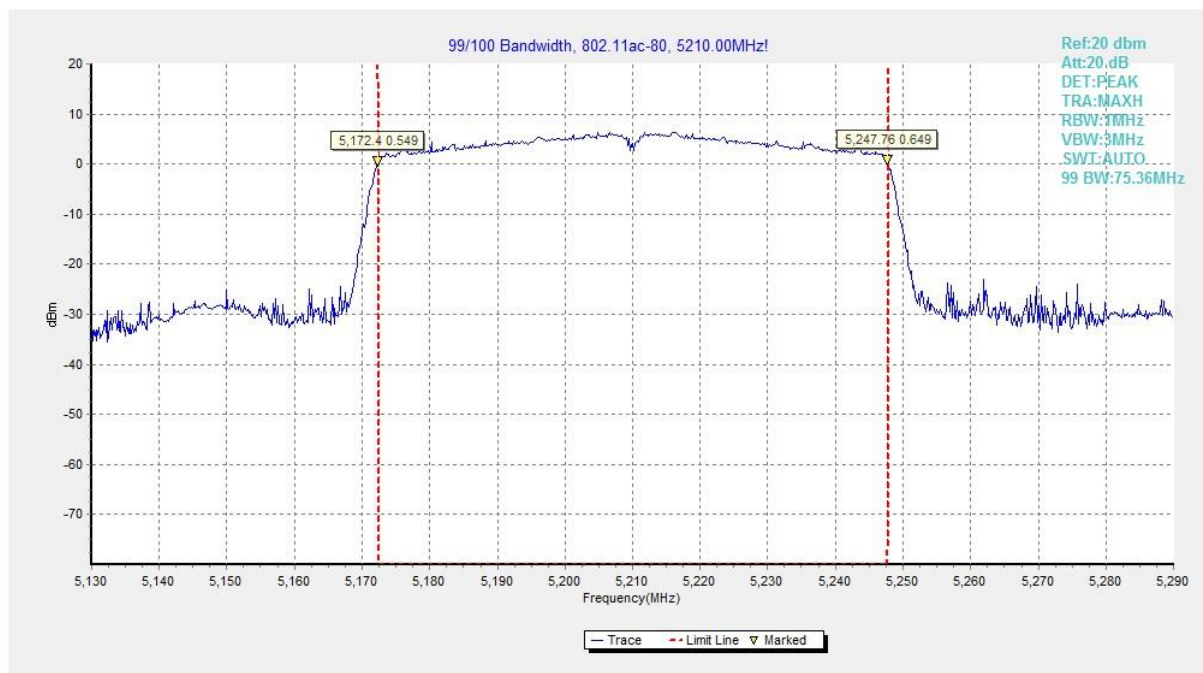


Fig. 34 99% Occupied Bandwidth (802.11ac-VHT80, 5210MHz)

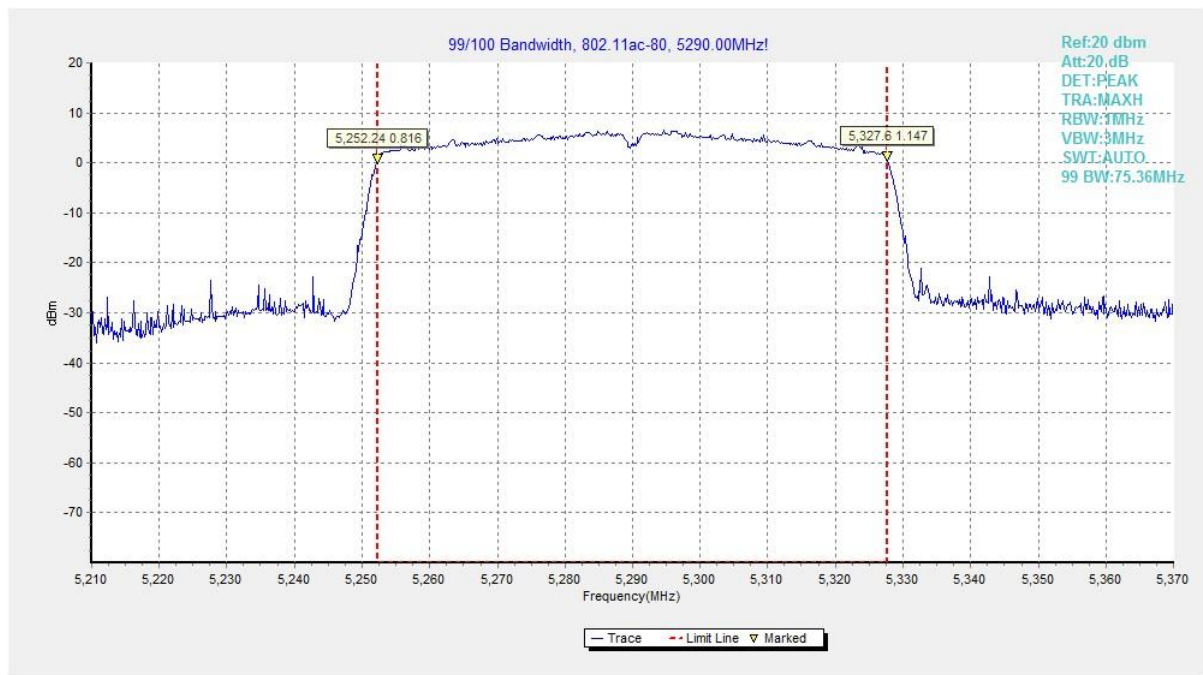


Fig. 35 99% Occupied Bandwidth (802.11ac-VHT80, 5290MHz)

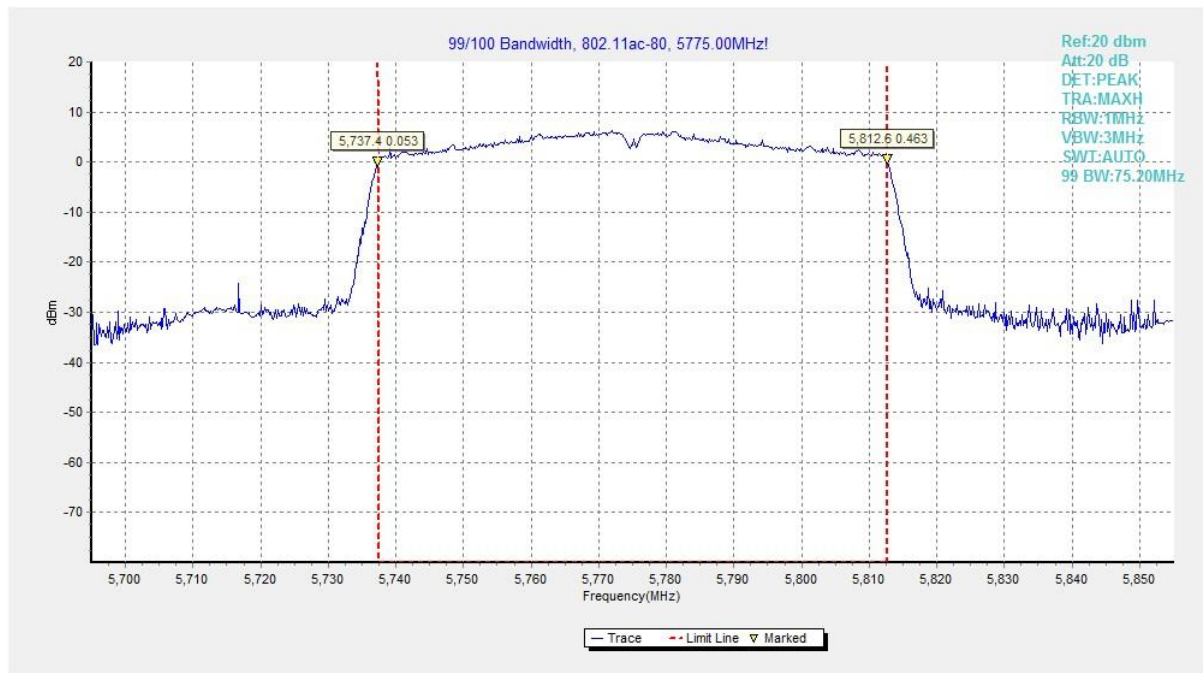


Fig. 36 99% Occupied Bandwidth (802.11ac-VHT80, 5775MHz)

A.7. Band Edges Compliance

Measurement Limit:

Standard	Limit (dBuV/m)	
FCC 47 CFR Part 15.209	Peak	74
	Average	54

The measurement is made according to KDB 789033.

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz (CH36)	Fig.37	P
	5320 MHz (CH64)	Fig.38	P
	5745 MHz (CH149)	Fig.39	P
	5825 MHz (CH165)	Fig.40	P
802.11n HT40	5190 MHz (CH38)	Fig.41	P
	5310 MHz (CH62)	Fig.42	P
	5755 MHz (CH151)	Fig.43	P
	5795 MHz (CH159)	Fig.44	P
802.11ac VHT80	5210 MHz (CH42)	Fig.45	P
	5290 MHz (CH58)	Fig.46	P
	5775 MHz (CH155)	Fig.47	P

Conclusion: PASS

Test graphs as below:

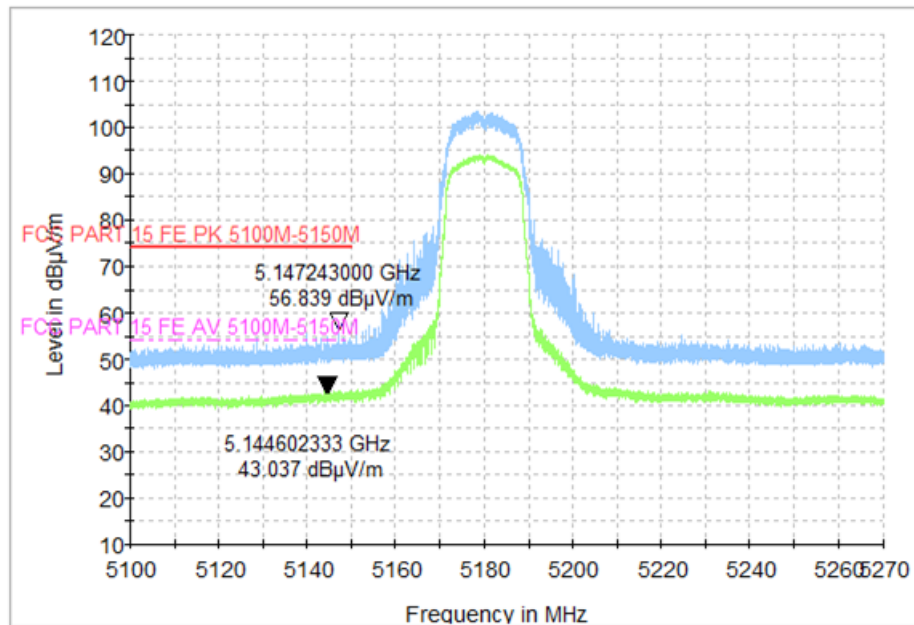


Fig. 37 Band Edges (802.11a, CH36 5180MHz)

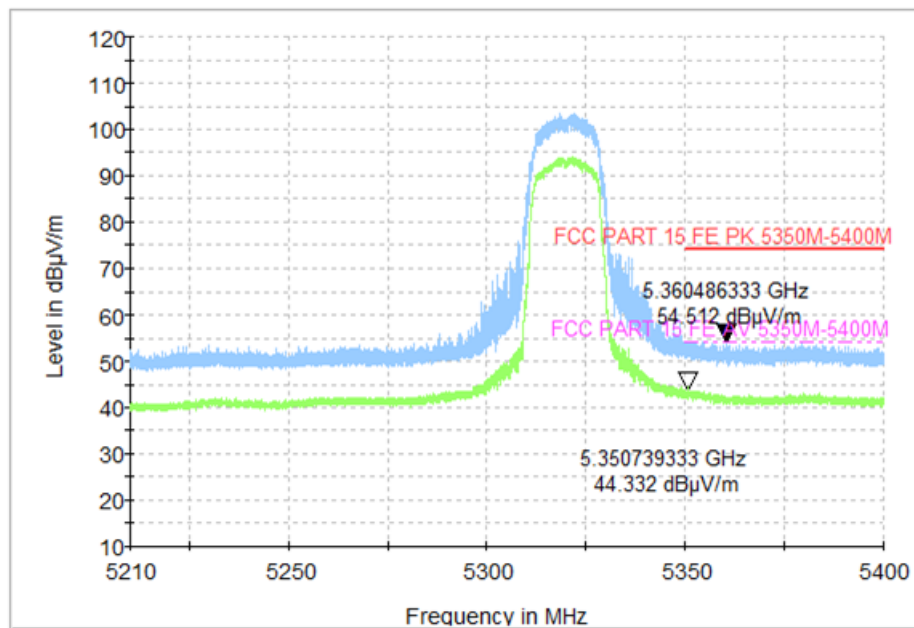


Fig. 38 Band Edges (802.11a, CH64 5320MHz)

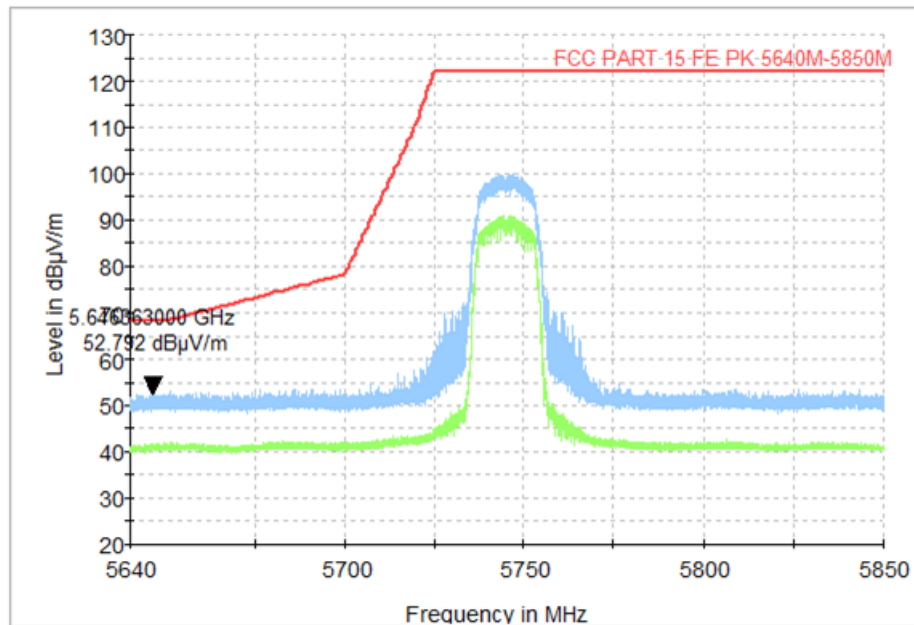


Fig. 39 Band Edges (802.11a, CH149 5745MHz)

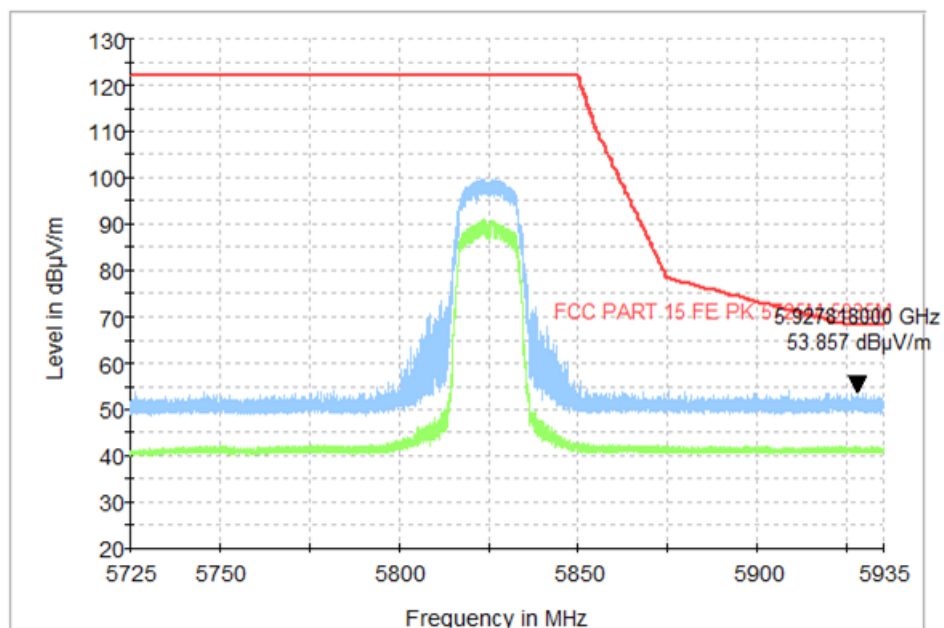


Fig. 40 Band Edges (802.11a, CH165 5825MHz)

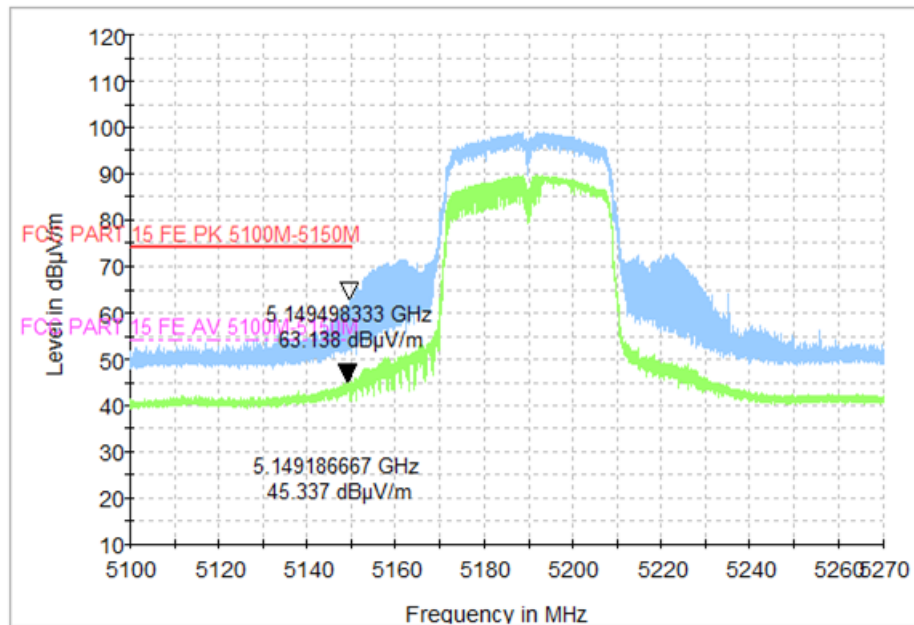


Fig. 41 Band Edges (802.11n-HT40, CH38 5190MHz)

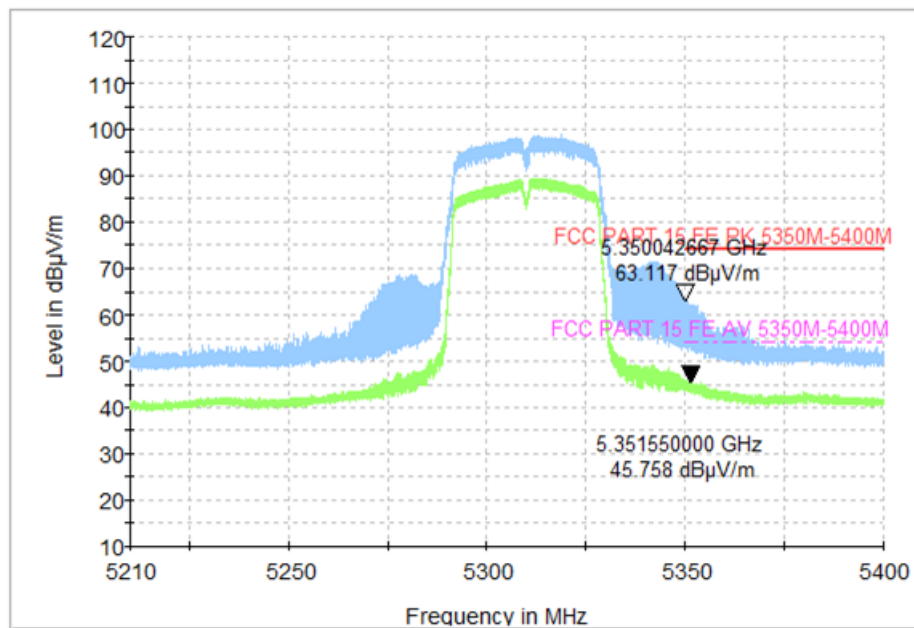


Fig. 42 Band Edges (802.11n-HT40, CH62 5310MHz)

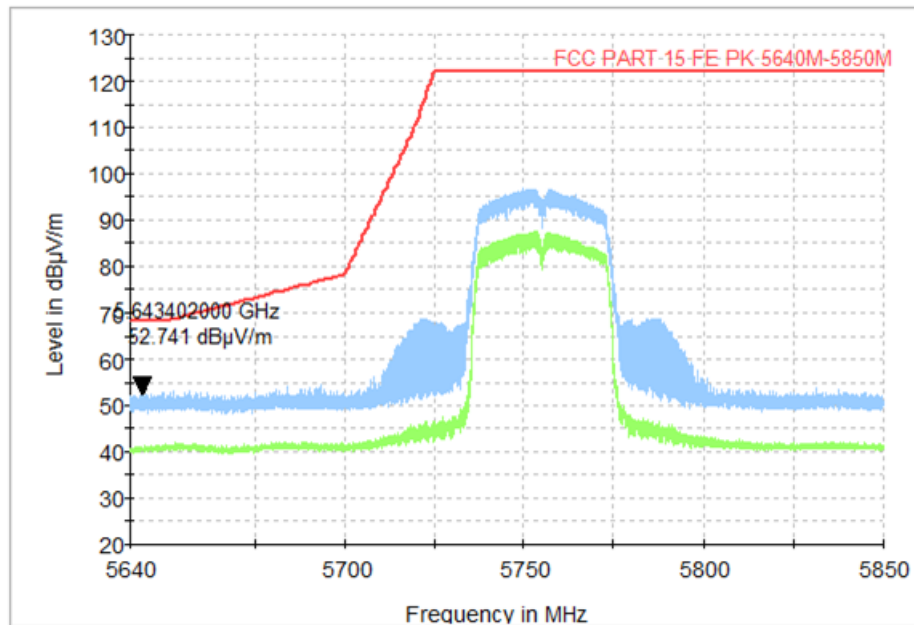


Fig. 43 Band Edges (802.11n-HT40, CH151 5755MHz)

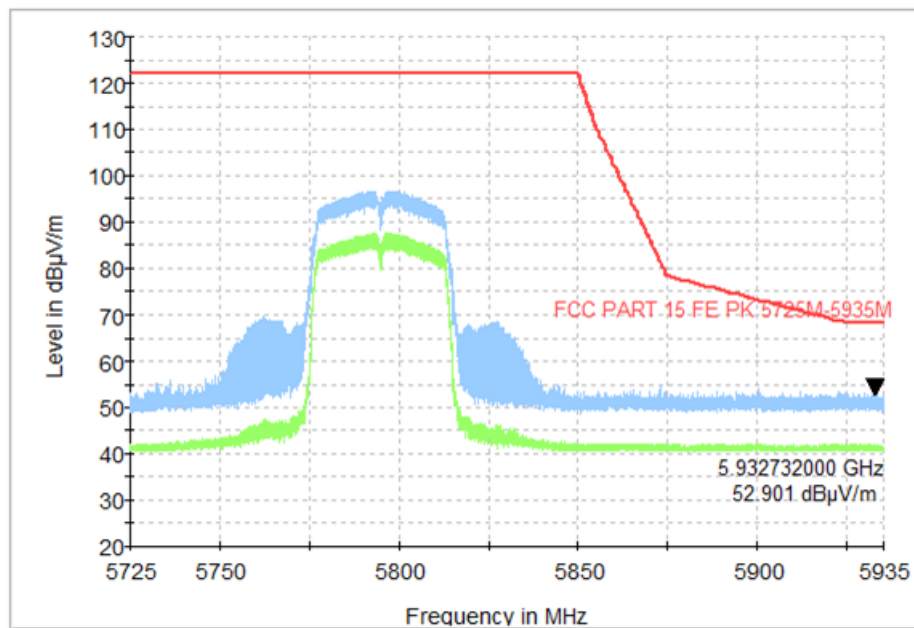


Fig. 44 Band Edges (802.11n-HT40, CH159 5795MHz)

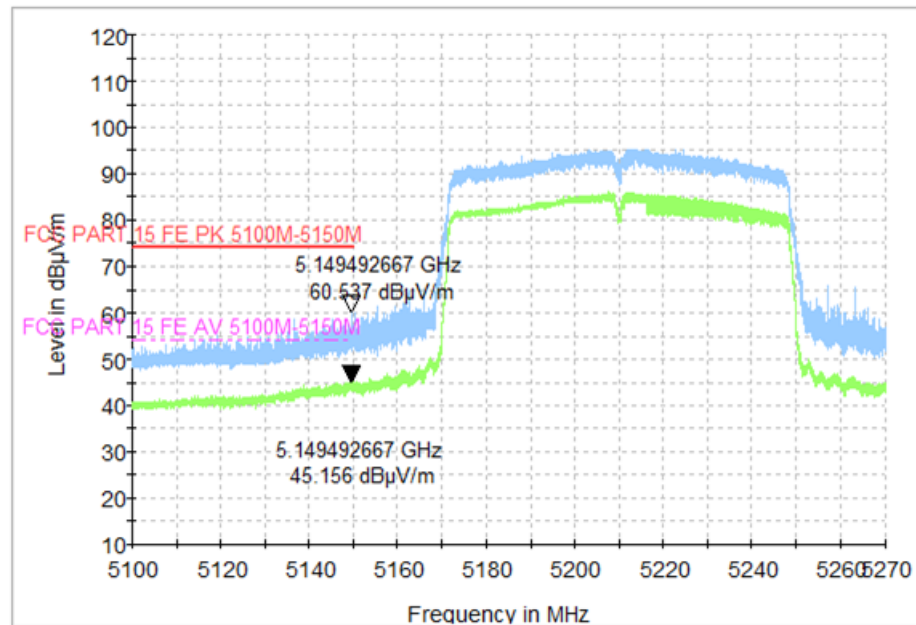


Fig. 45 Band Edges (802.11ac-VHT80, CH42 5210MHz)

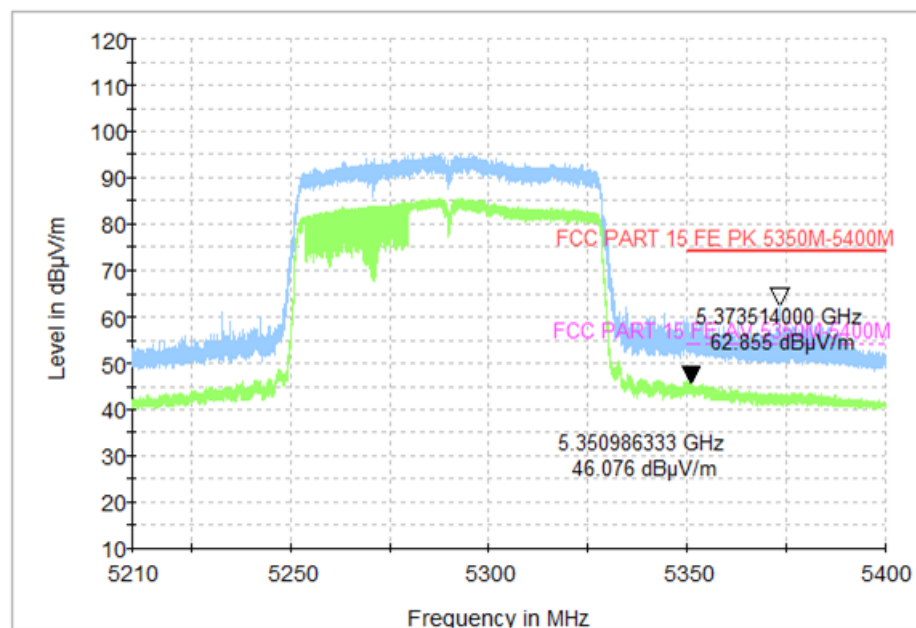


Fig. 46 Band Edges (802.11ac-VHT80, CH58 5290MHz)

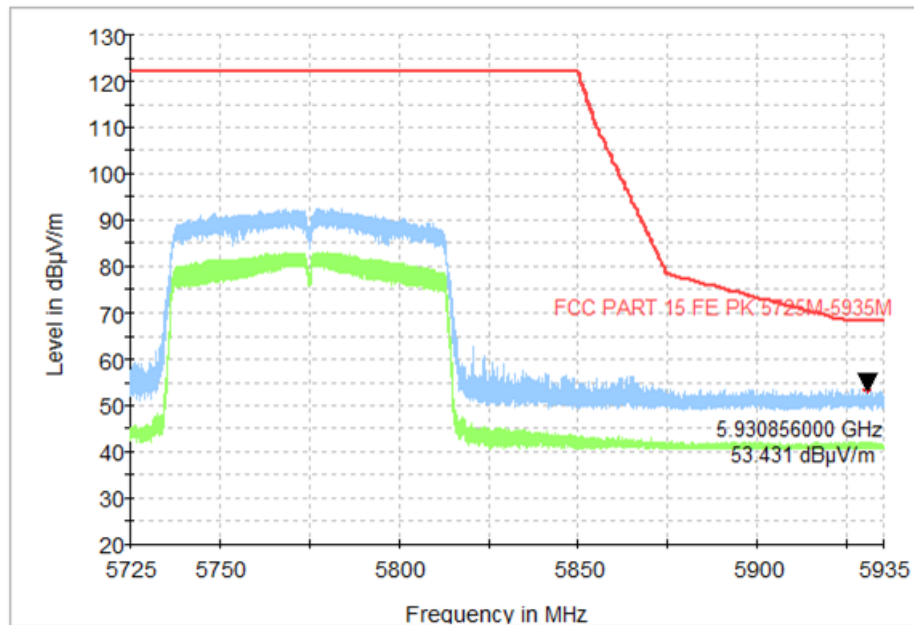


Fig. 47 Band Edges (802.11ac-VHT80, CH155 5775MHz)

A.8. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit (dBm/MHz)
FCC 47 CFR Part 15.407, 15.205	< -27

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)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength (dBμV/m)	Measurement distance (m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Note: For frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m.

Measurement Result:

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	5180MHz (Ch36)	7 GHz ~ 18 GHz	Fig.48	P
	5200MHz (Ch40)	7 GHz ~ 18 GHz	Fig.49	P
	5240MHz (Ch48)	7 GHz ~ 18 GHz	Fig.50	P
	5260MHz (Ch52)	7 GHz ~ 18 GHz	Fig.51	P
	5280MHz (Ch56)	7 GHz ~ 18 GHz	Fig.52	P
	5320MHz (Ch64)	7 GHz ~ 18 GHz	Fig.53	P
	5745MHz (Ch149)	7 GHz ~ 18 GHz	Fig.54	P
	5785MHz (Ch157)	7 GHz ~ 18 GHz	Fig.55	P
	5825MHz (Ch165)	7 GHz ~ 18 GHz	Fig.56	P
802.11n HT40	5190MHz (Ch38)	7 GHz ~ 18 GHz	Fig.57	P
	5230MHz (Ch46)	7 GHz ~ 18 GHz	Fig.58	P
	5270MHz (Ch54)	7 GHz ~ 18 GHz	Fig.59	P
	5310MHz (Ch62)	7 GHz ~ 18 GHz	Fig.60	P
	5755MHz (Ch151)	7 GHz ~ 18 GHz	Fig.61	P
	5795MHz (Ch159)	7 GHz ~ 18 GHz	Fig.62	P
802.11ac VHT80	5210MHz (Ch42)	7 GHz ~ 18 GHz	Fig.63	P
	5290MHz (Ch58)	7 GHz ~ 18 GHz	Fig.64	P
	5775MHz (Ch155)	7 GHz ~ 18 GHz	Fig.65	P
All channels		30 MHz ~ 1 GHz	Fig.66	P
		1 GHz ~ 3 GHz	Fig.67	P
		3 GHz ~ 7 GHz	Fig.68	P
		18 GHz ~ 26.5 GHz	Fig.69	P



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	26.5GHz ~ 40GHz	Fig.70	P
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Conclusion: PASS

Test graphs as below:

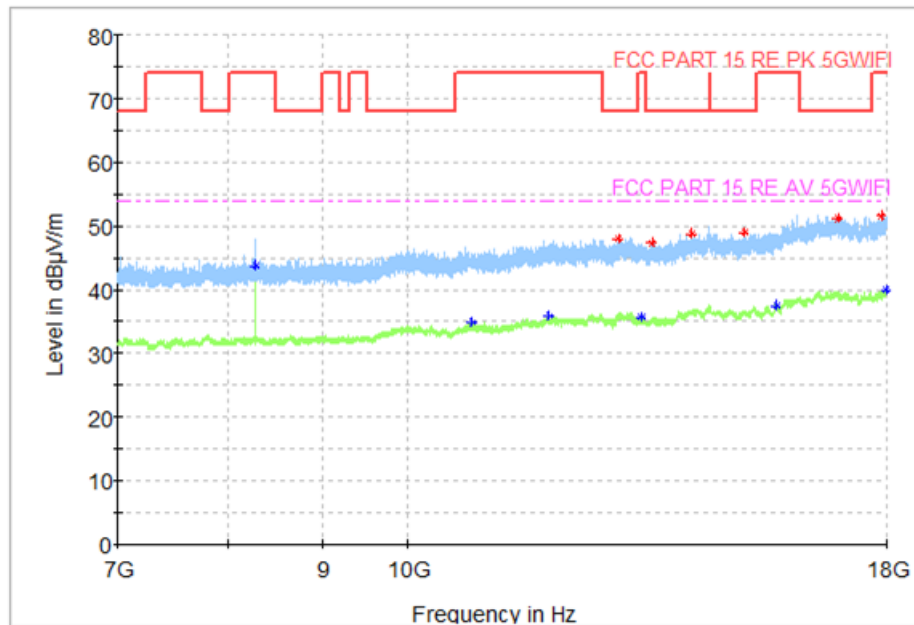


Fig. 48 Transmitter Spurious Emission (802.11a, CH36 5180MHz)

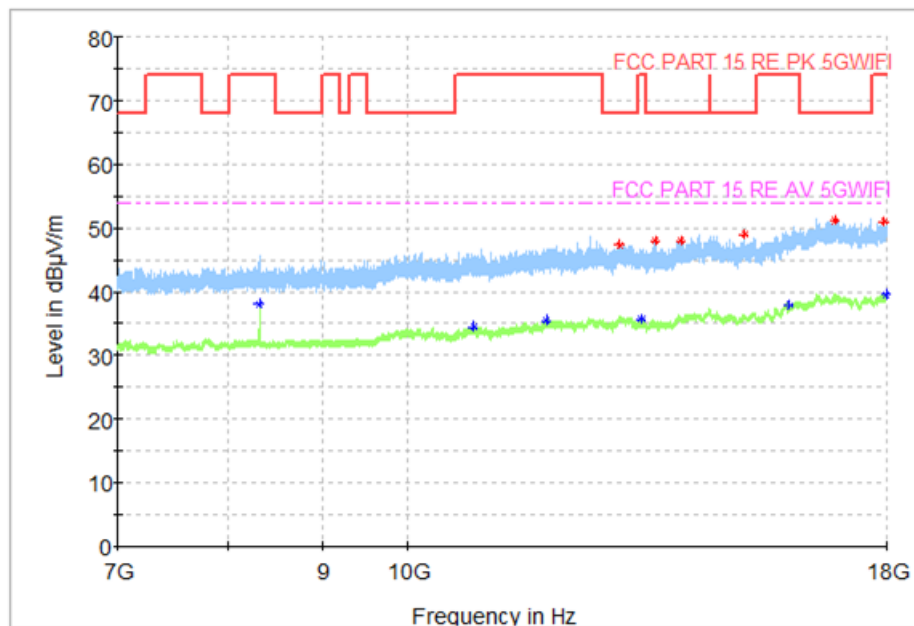


Fig. 49 Transmitter Spurious Emission (802.11a, CH40 5200MHz)

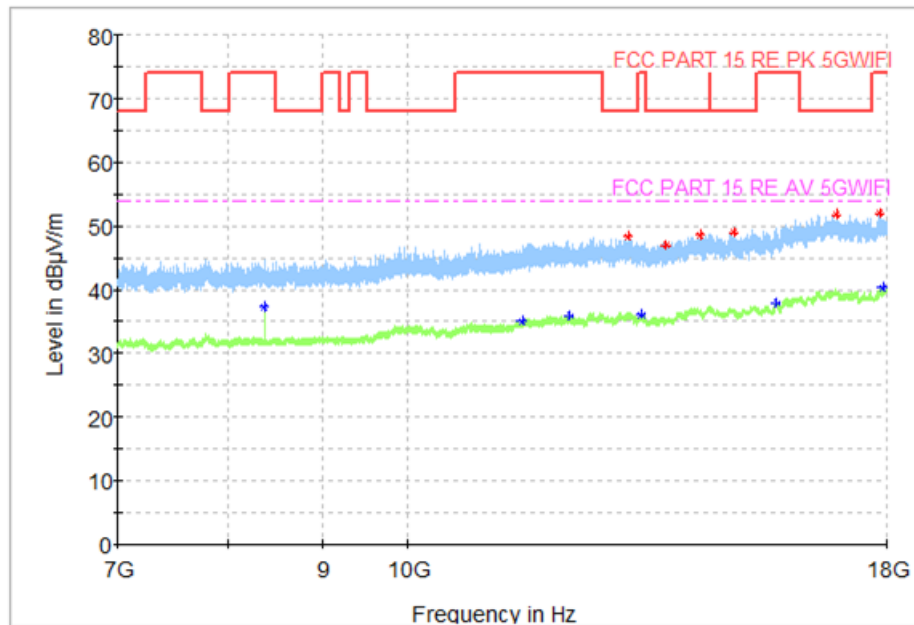


Fig. 50 Transmitter Spurious Emission (802.11a, CH48 5240MHz)

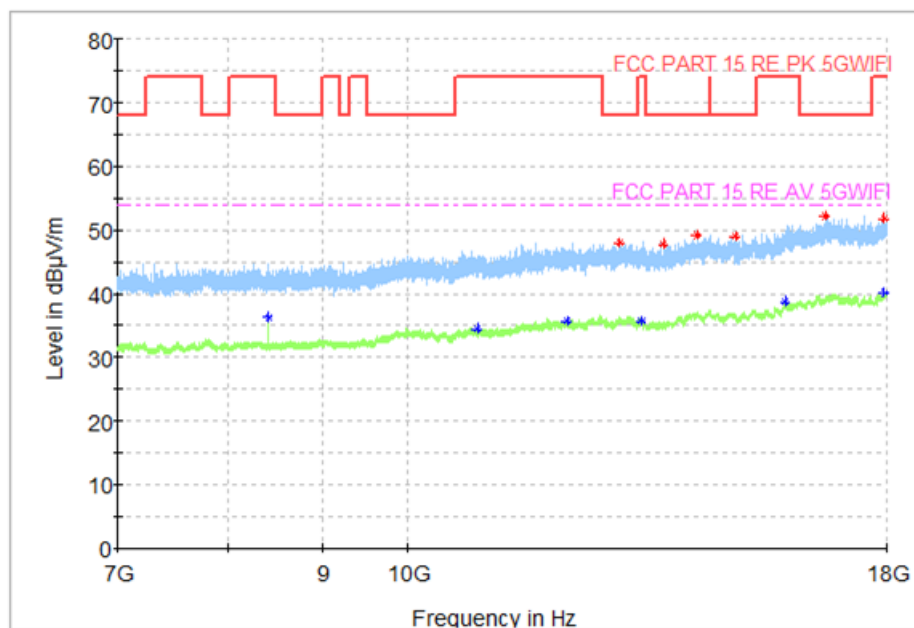


Fig. 51 Transmitter Spurious Emission (802.11a, CH52 5260MHz)

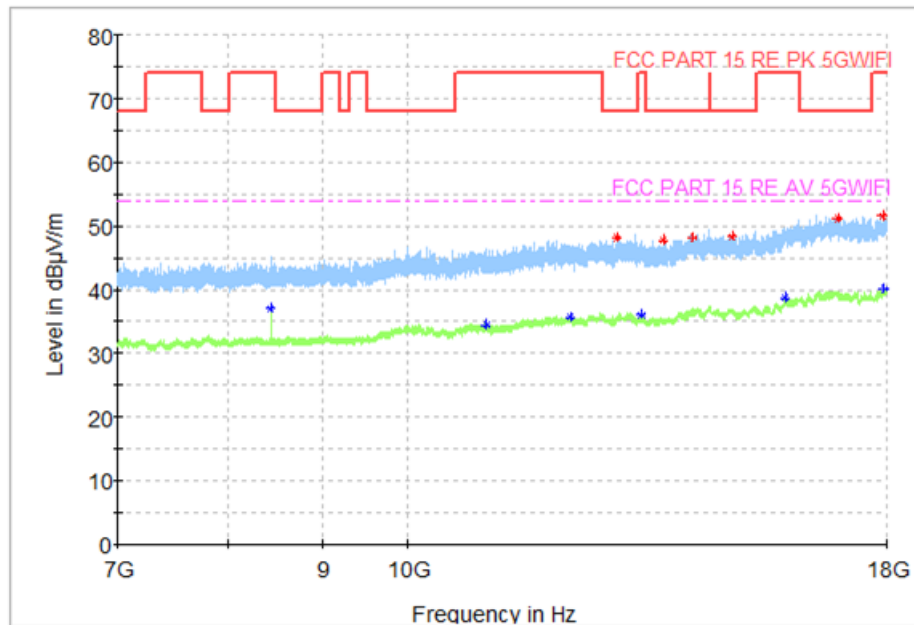


Fig. 52 Transmitter Spurious Emission (802.11a, CH56 5280MHz)

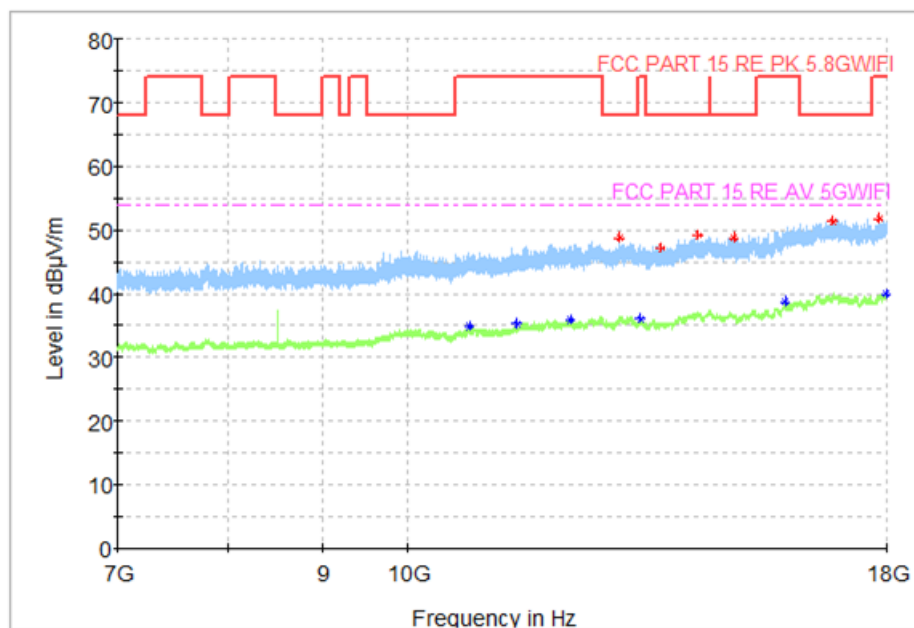


Fig. 53 Transmitter Spurious Emission (802.11a, CH64 5320MHz)

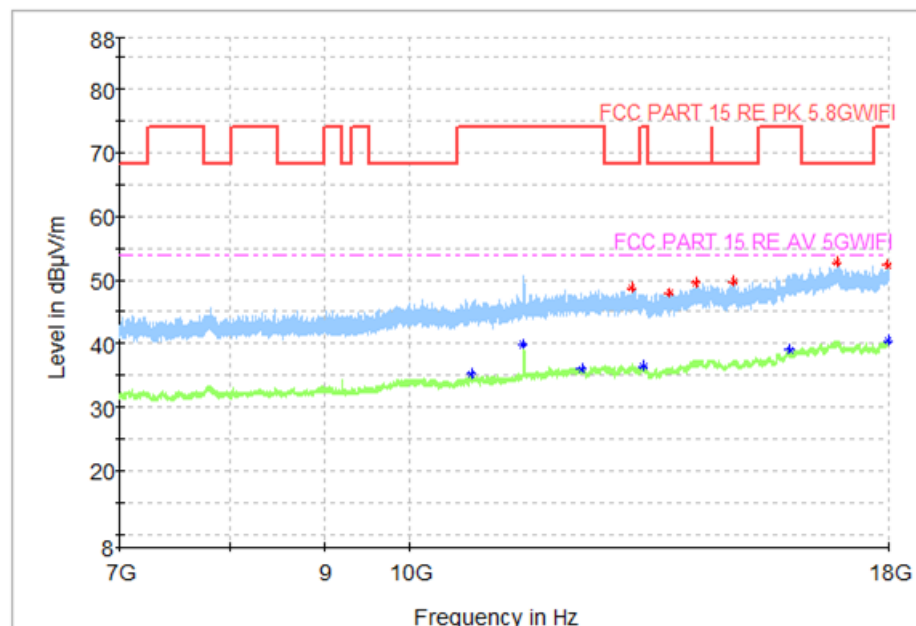


Fig. 54 Transmitter Spurious Emission (802. 11a, CH149 5745MHz)

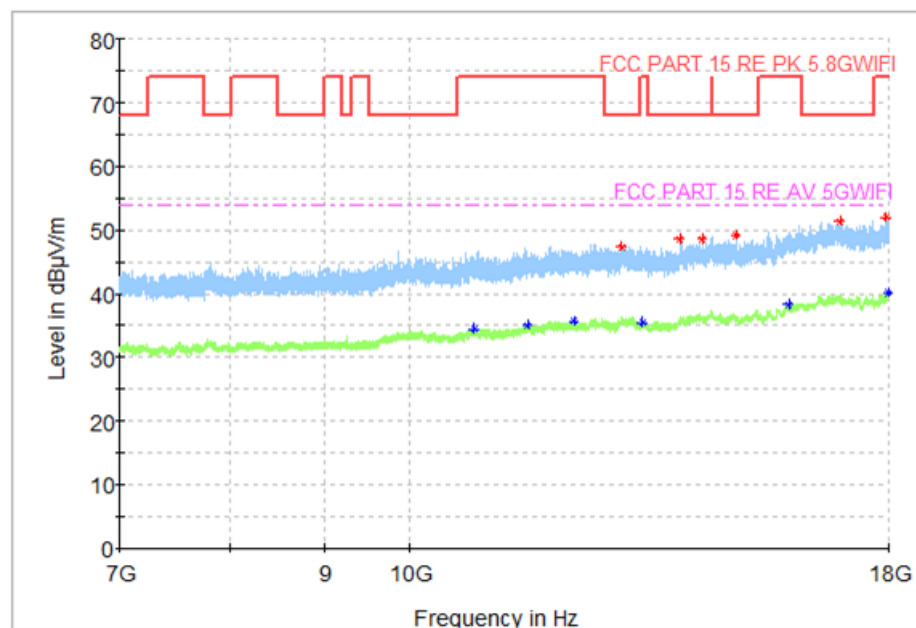


Fig. 55 Transmitter Spurious Emission (802. 11a, CH157 5785MHz)

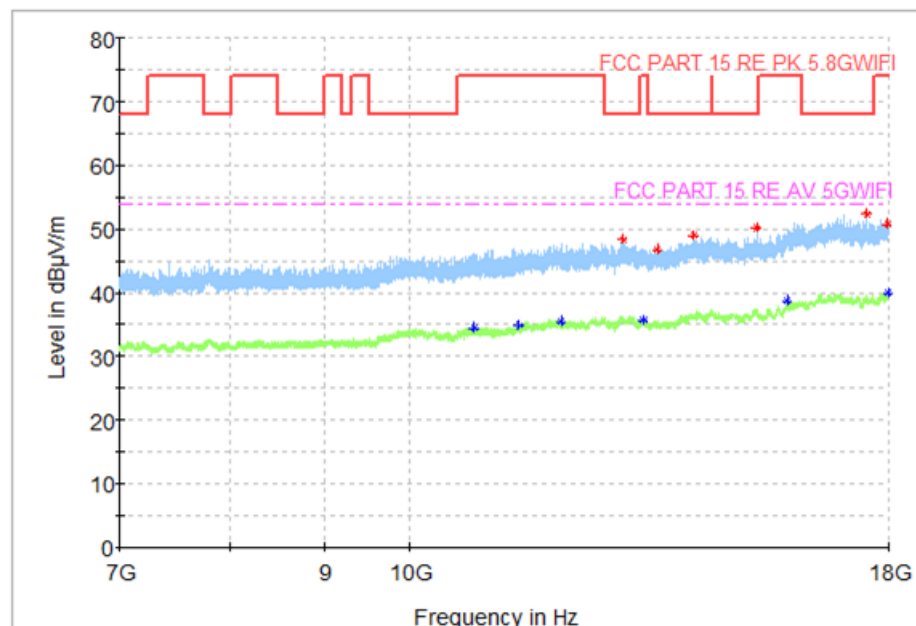


Fig. 56 Transmitter Spurious Emission (802. 11a, CH165 5825MHz)

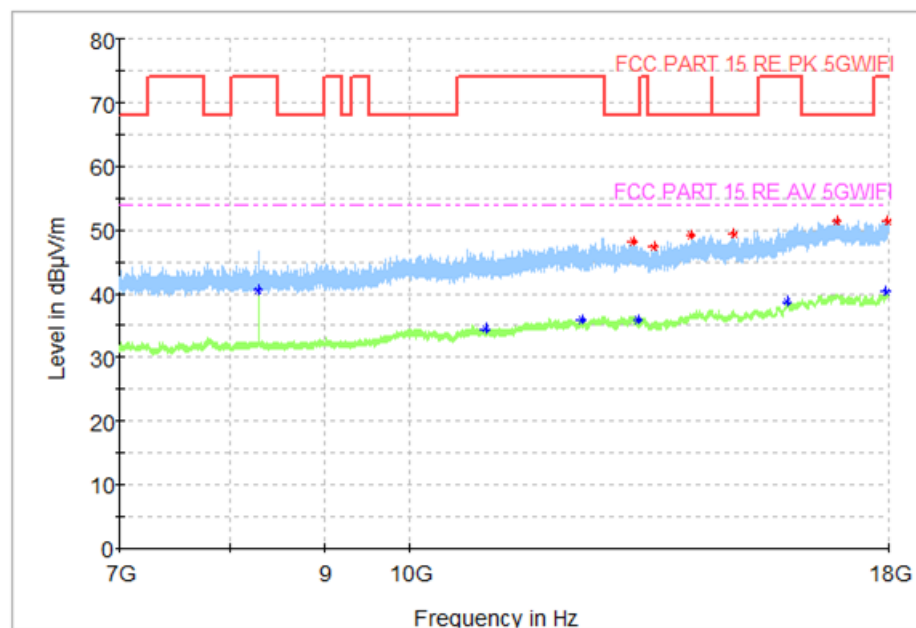


Fig. 57 Transmitter Spurious Emission (802.11n-HT40, CH38 5190MHz)

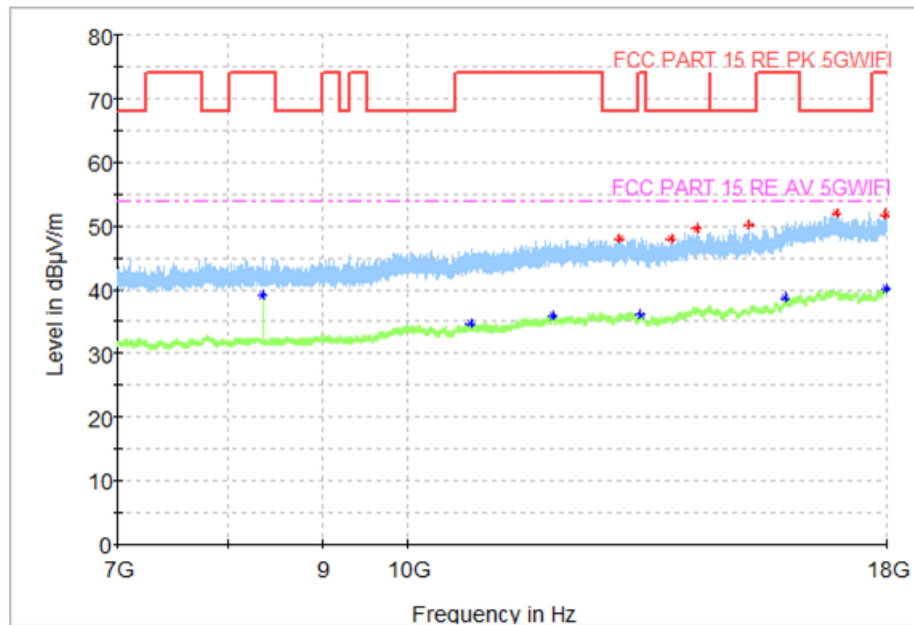


Fig. 58 Transmitter Spurious Emission (802.11n-HT40, CH46 5230MHz)

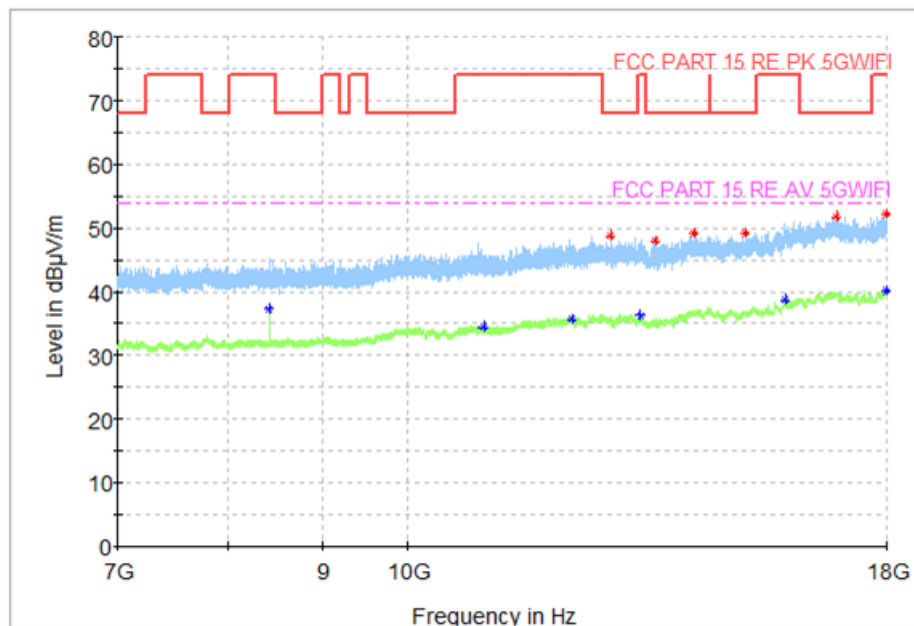


Fig. 59 Transmitter Spurious Emission (802.11n-HT40, CH54 5270MHz)

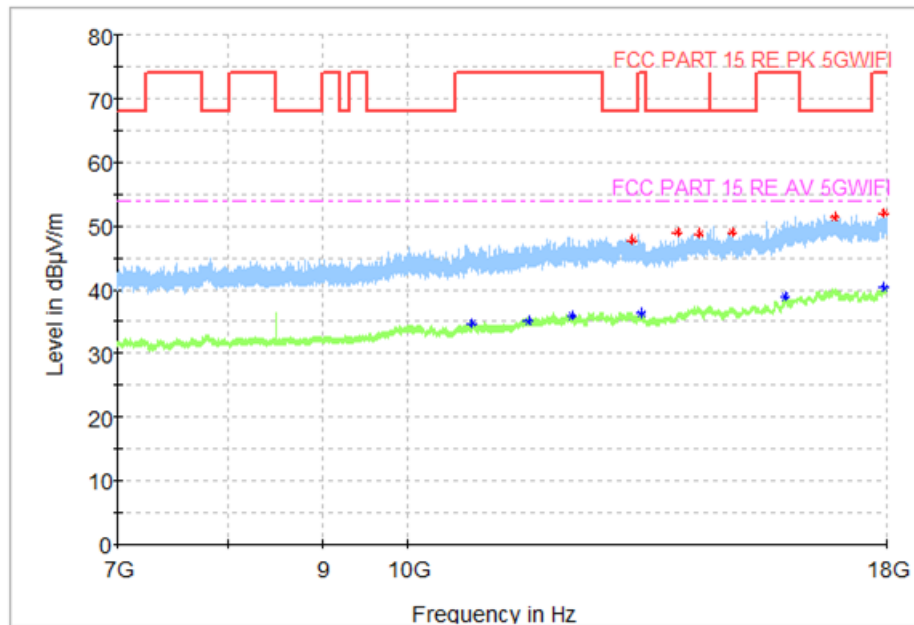


Fig. 60 Transmitter Spurious Emission (802.11n-HT40, CH62 5310MHz)

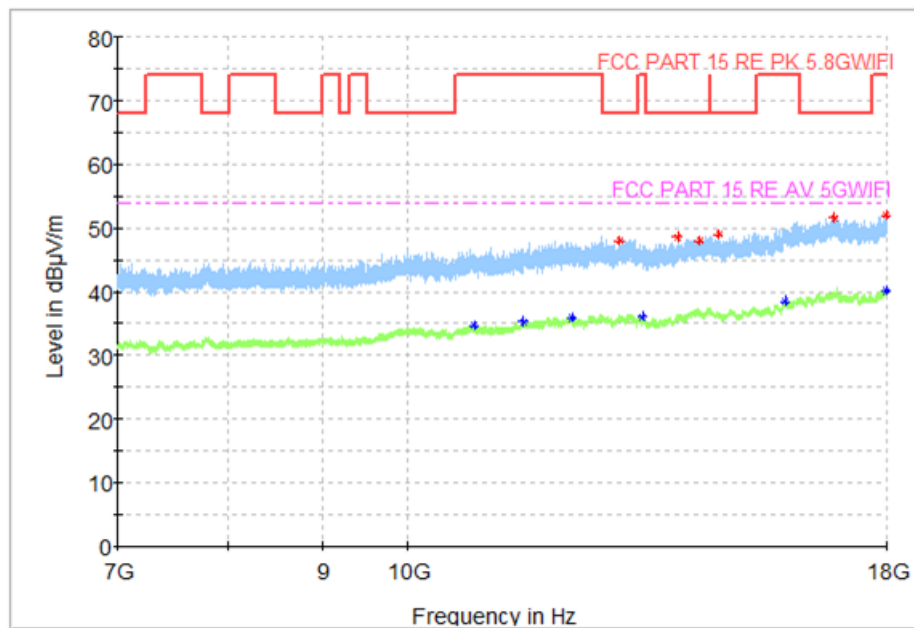


Fig. 61 Transmitter Spurious Emission (802.11n-HT40, CH151 5755MHz)

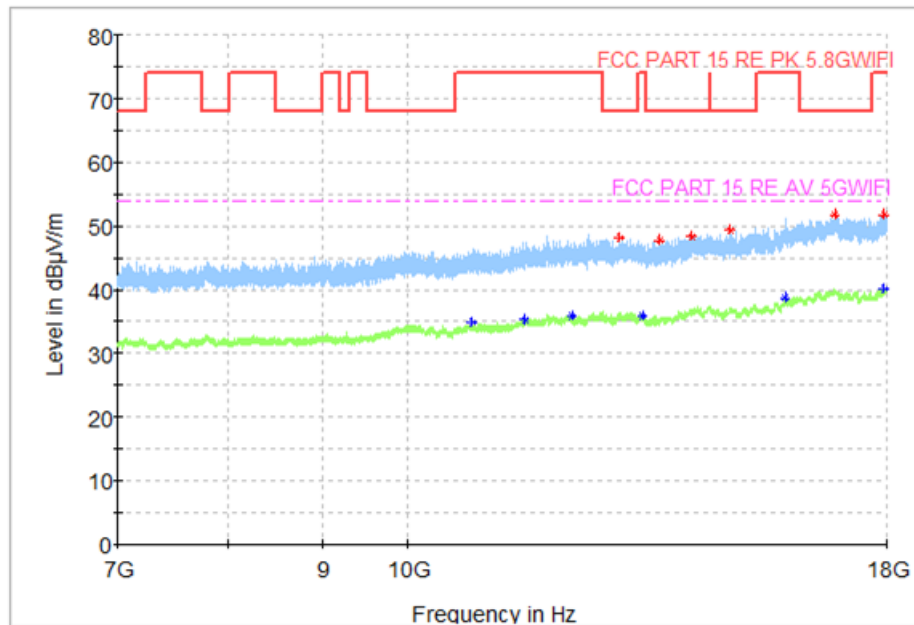


Fig. 62 Transmitter Spurious Emission (802. 11n-HT40, CH159 5795MHz)

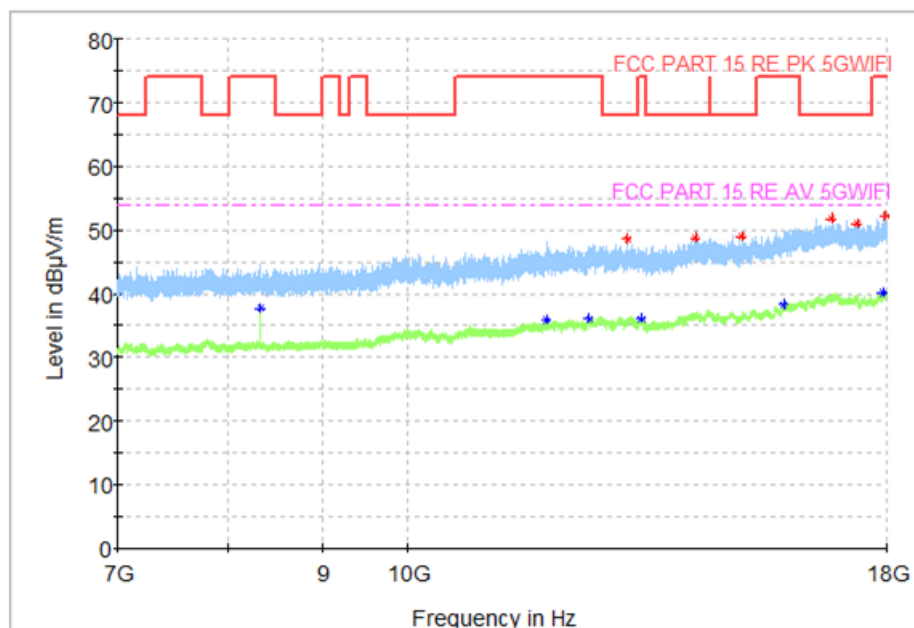


Fig. 63 Transmitter Spurious Emission (802. 11ac-VHT80, CH42 5210MHz)

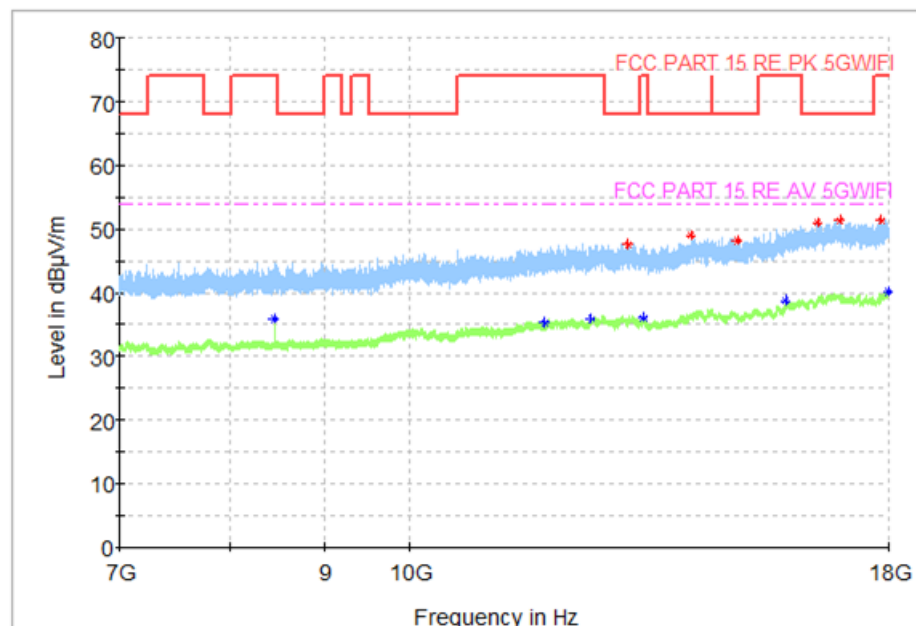


Fig. 64 Transmitter Spurious Emission (802. 11ac-VHT80, CH58 5290MHz)

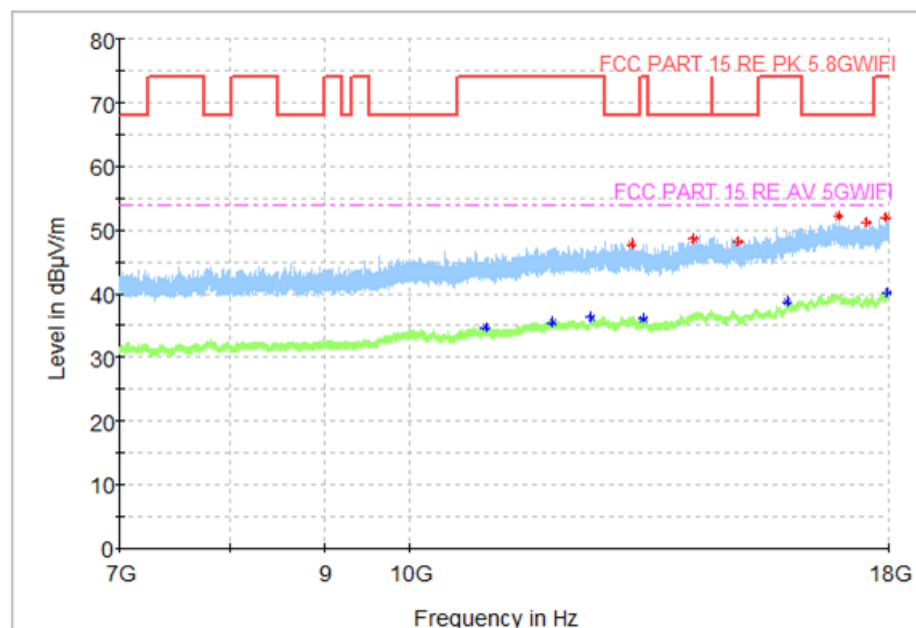


Fig. 65 Transmitter Spurious Emission (802. 11ac-VHT80, CH155 5775MHz)

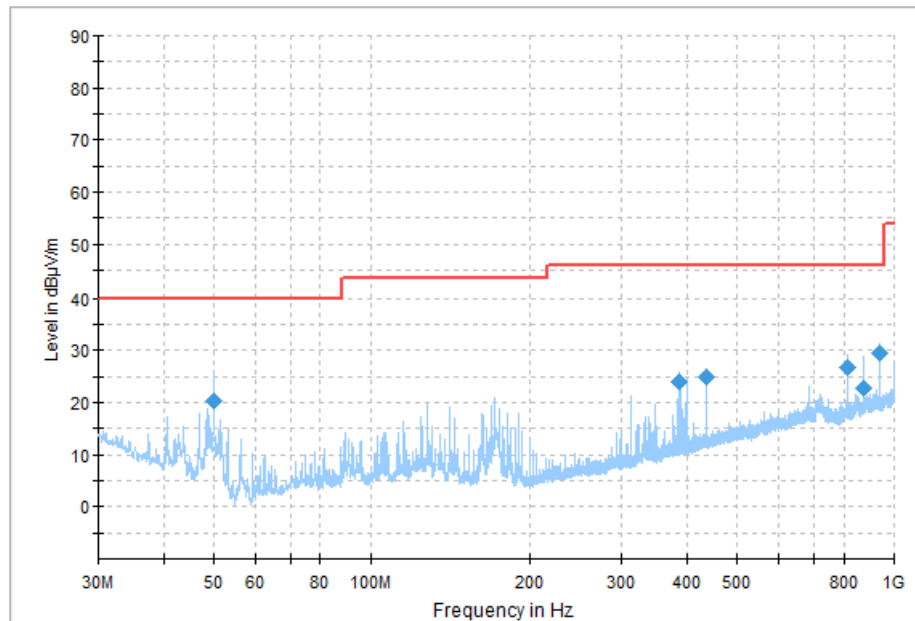


Fig. 66 Transmitter Spurious Emission (All channel, 30MHz~1GHz)

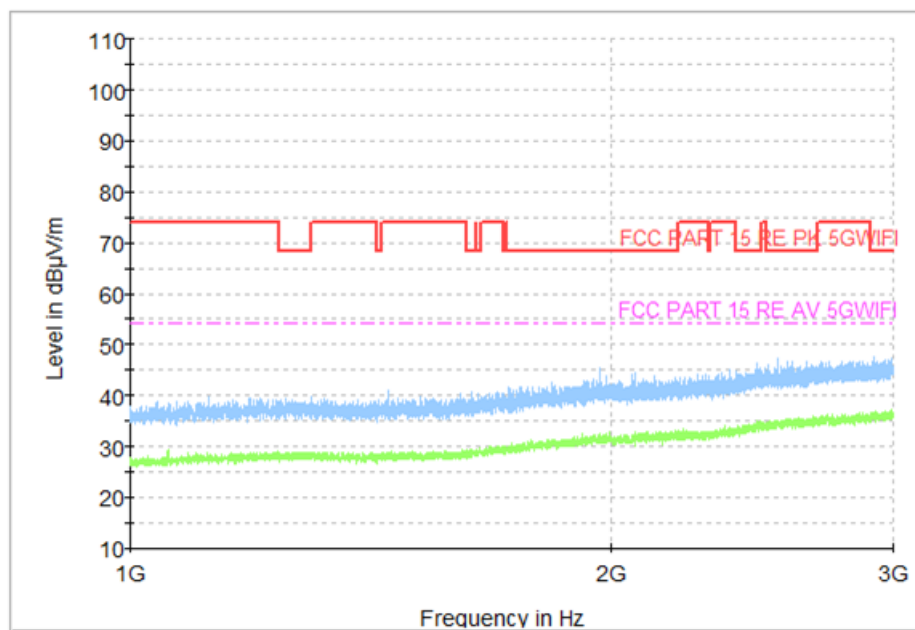


Fig. 67 Transmitter Spurious Emission (All channel, 1GHz~3GHz)

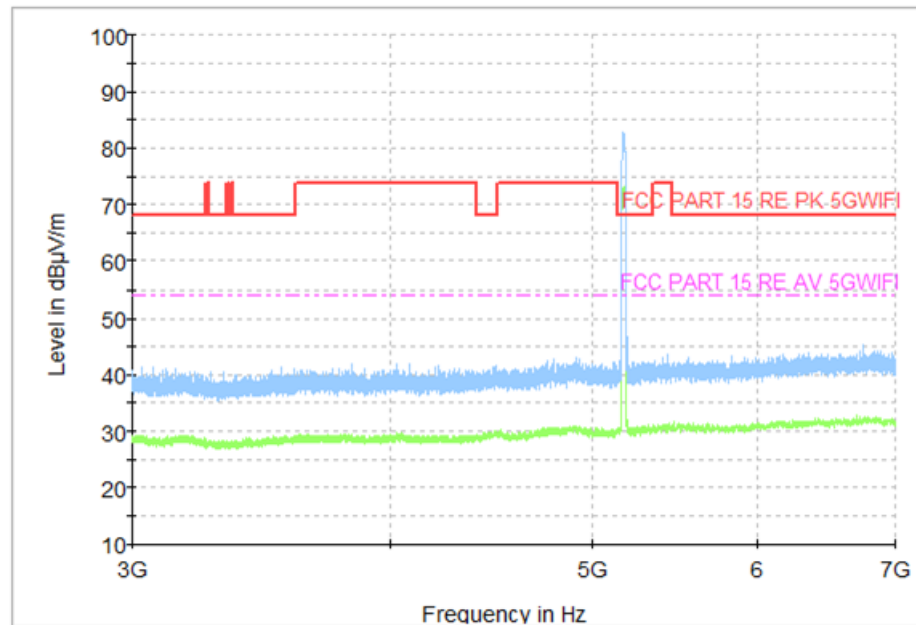


Fig. 68 Transmitter Spurious Emission (All channel, 3GHz~7GHz)

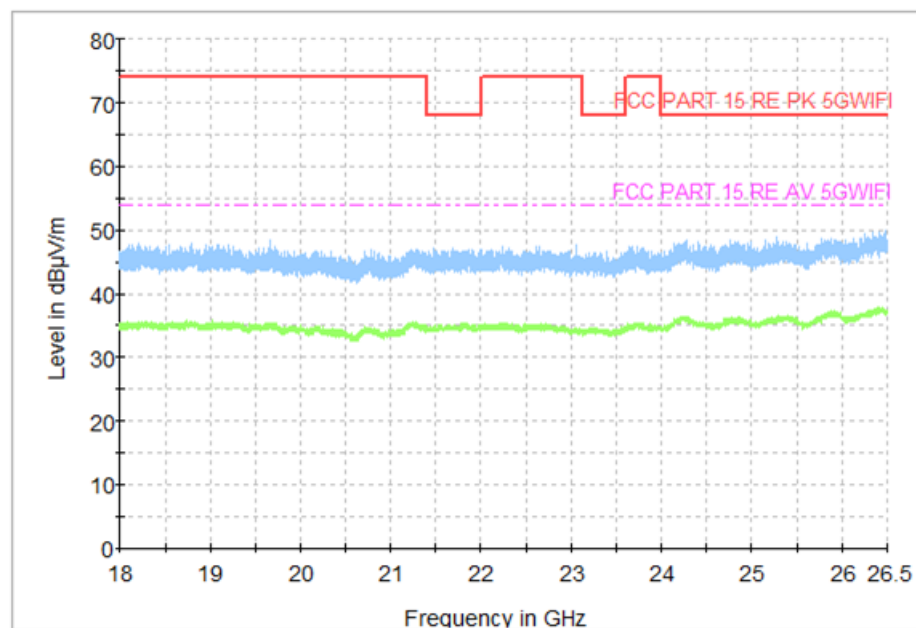


Fig. 69 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz)

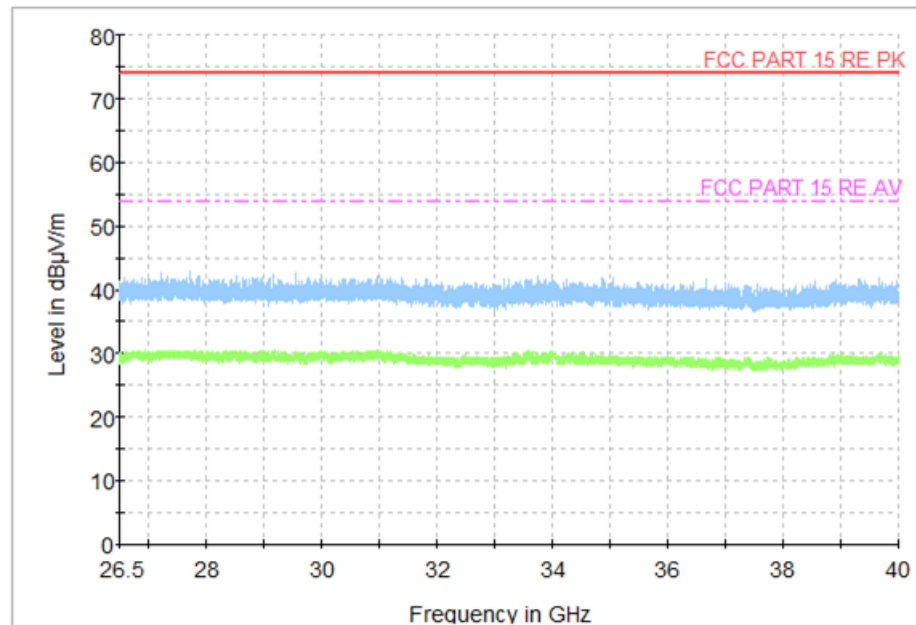


Fig. 70 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz)

Worst Case Result
802.11a CH48

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13117.100000	48.31	68.20	19.89	V	9.5
13729.066667	46.88	68.20	21.32	V	9.8
14319.400000	48.51	68.20	19.69	H	11.5
14917.800000	48.87	68.20	19.33	H	11.7
16914.300000	51.88	68.20	16.32	H	16.0
17860.666667	51.93	74.00	22.07	H	16.7

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
8383.800000	37.30	54.00	16.70	V	3.3
11509.266667	35.12	54.00	18.88	H	6.9
12197.866667	35.89	54.00	18.11	V	8.4
13311.800000	36.06	54.00	17.94	V	9.7
15716.766667	37.98	54.00	16.02	V	13.5
17905.033333	40.20	54.00	13.80	V	17.2

802.11a CH56

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
12923.866667	48.18	68.20	20.02	V	9.2
13677.366667	47.68	68.20	20.52	V	9.5
14193.633333	48.26	68.20	19.94	V	11.5
14902.400000	48.28	68.20	19.92	V	11.7
16949.133333	51.22	68.20	16.98	H	15.8
17902.466667	51.54	74.00	22.46	H	17.0

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
8447.966667	37.10	54.00	16.90	H	3.3
11005.833333	34.52	54.00	19.48	V	6.5
12217.300000	35.76	54.00	18.24	V	8.6
13311.433333	35.99	54.00	18.02	H	9.7
15900.466667	38.68	54.00	15.32	V	14.5
17954.533333	40.07	54.00	13.93	H	17.1

802.11a CH149

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13123.700000	48.65	68.20	19.55	H	9.8
13738.233333	47.96	68.20	20.24	H	9.6
14213.066667	49.60	68.20	18.60	V	11.6
14875.633333	49.63	68.20	18.57	H	11.7
16907.700000	52.74	68.20	15.46	H	15.9
17983.500000	52.32	74.00	21.68	V	16.9

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
10790.600000	35.17	54.00	18.83	H	6.5
11490.933333	39.80	54.00	14.20	H	7.0
12341.600000	35.99	54.00	18.01	H	8.3
13309.600000	36.32	54.00	17.68	V	9.8
15933.100000	39.08	54.00	14.92	H	14.7
17987.166667	40.51	54.00	13.49	V	16.9

802.11n HT40 CH46

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
12973.733333	47.92	68.20	20.28	H	9.3
13812.300000	48.01	68.20	20.19	H	9.7
14253.033333	49.52	68.20	18.68	V	11.7
15208.200000	50.17	68.20	18.03	V	11.7
16925.666667	51.98	68.20	16.22	H	16.0
17958.566667	51.75	74.00	22.25	H	16.9

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
8368.033333	39.17	54.00	14.83	V	3.3
10793.166667	34.70	54.00	19.30	V	6.4
11947.066667	35.94	54.00	18.06	H	8.1
13308.133333	36.11	54.00	17.89	V	9.8
15898.633333	38.76	54.00	15.24	V	14.4
17997.433333	40.05	54.00	13.95	V	16.9

802.11n HT40 CH54

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
12827.800000	48.69	68.20	19.51	V	9.2
13549.766667	47.88	68.20	20.32	V	9.6
14211.966667	49.15	68.20	19.05	V	11.6
15130.100000	49.24	68.20	18.96	H	11.8
16928.966667	51.72	68.20	16.48	V	15.9
17993.400000	52.13	74.00	21.87	V	16.9

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
8431.833333	37.36	54.00	16.64	V	3.3
10972.466667	34.45	54.00	19.55	V	6.6
12230.133333	35.68	54.00	18.32	V	8.5
13306.666667	36.22	54.00	17.78	H	9.7
15901.566667	38.73	54.00	15.27	H	14.5
17989.366667	40.02	54.00	13.98	V	16.9

802.11n HT40 CH151

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
12964.566667	47.99	68.20	20.21	H	9.3
13920.100000	48.57	68.20	19.63	V	10.2
14303.633333	48.00	68.20	20.20	H	11.7
14641.333333	48.92	68.20	19.28	H	11.6
16883.866667	51.53	68.20	16.67	H	16.1
17987.533333	51.98	74.00	22.02	V	16.9

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
10854.033333	34.72	54.00	19.28	V	6.5
11519.166667	35.20	54.00	18.80	H	7.0
12228.300000	35.81	54.00	18.19	H	8.6
13331.600000	35.99	54.00	18.01	H	9.6
15898.633333	38.51	54.00	15.49	V	14.4
17992.300000	40.01	54.00	13.99	H	16.9

802.11ac VHT80 CH42

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13095.833333	48.47	68.20	19.73	H	9.7
14221.500000	48.68	68.20	19.52	H	11.7
15072.900000	48.90	68.20	19.30	V	11.8
16821.166667	51.74	68.20	16.46	V	15.9
17350.266667	51.04	68.20	17.16	H	15.8
17957.833333	52.22	74.00	21.78	H	17.0

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
8336.133333	37.77	54.00	16.23	H	3.4
11848.800000	35.82	54.00	18.18	V	8.0
12486.433333	36.05	54.00	17.95	V	8.9
13309.233333	36.00	54.00	18.00	H	9.8
15863.800000	38.32	54.00	15.68	V	14.1
17918.600000	40.01	54.00	13.99	H	17.0

802.11ac VHT80 CH58

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13060.633333	47.63	68.20	20.57	V	9.2
14125.800000	49.00	68.20	19.20	H	10.9
14954.466667	48.09	68.20	20.11	V	11.7
16492.633333	50.88	68.20	17.32	V	15.1
16943.266667	51.47	68.20	16.73	V	15.8
17828.400000	51.35	74.00	22.65	H	16.5

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
8463.733333	35.92	54.00	18.08	H	3.5
11796.733333	35.27	54.00	18.73	H	7.9
12481.300000	35.94	54.00	18.06	V	8.8
13311.066667	36.06	54.00	17.94	H	9.7
15873.333333	38.60	54.00	15.40	H	14.1
17987.900000	40.04	54.00	13.96	H	16.9

802.11ac VHT80 CH155

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
13127.733333	47.75	68.20	20.45	V	9.7
14159.533333	48.53	68.20	19.67	V	11.3
14970.966667	48.15	68.20	20.05	V	11.7
16919.066667	52.17	68.20	16.03	H	16.0
17530.666667	51.14	68.20	17.06	H	16.0
17937.300000	51.97	74.00	22.03	H	17.1

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
10974.666667	34.59	54.00	19.41	H	6.7
11910.766667	35.46	54.00	18.54	V	8.0
12482.766667	36.19	54.00	17.81	V	8.9
13314.733333	36.04	54.00	17.96	V	9.6
15900.100000	38.78	54.00	15.22	V	14.5
17981.666667	40.02	54.00	13.98	V	16.9

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. The measurement results are obtained as described below: $Result = P_{Mea} + A_{Rpl} = P_{Mea} + Cable Loss + Antenna Factor$

A.9. Radiated Spurious Emissions < 30MHz

Measurement Limit (15.209, 9kHz-30MHz):

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30

The measurement is made according to KDB 789033.

Note: The measurement distance during the test is 3m. The limit used in plots recalculated based on the extrapolation factor of 40 dB/decade.

Measurement Result:

Channel	Frequency Range	Test Results	Conclusion
All Channel	9 kHz ~ 30 MHz	Fig.71	P

Conclusion: PASS

Test graphs as below:

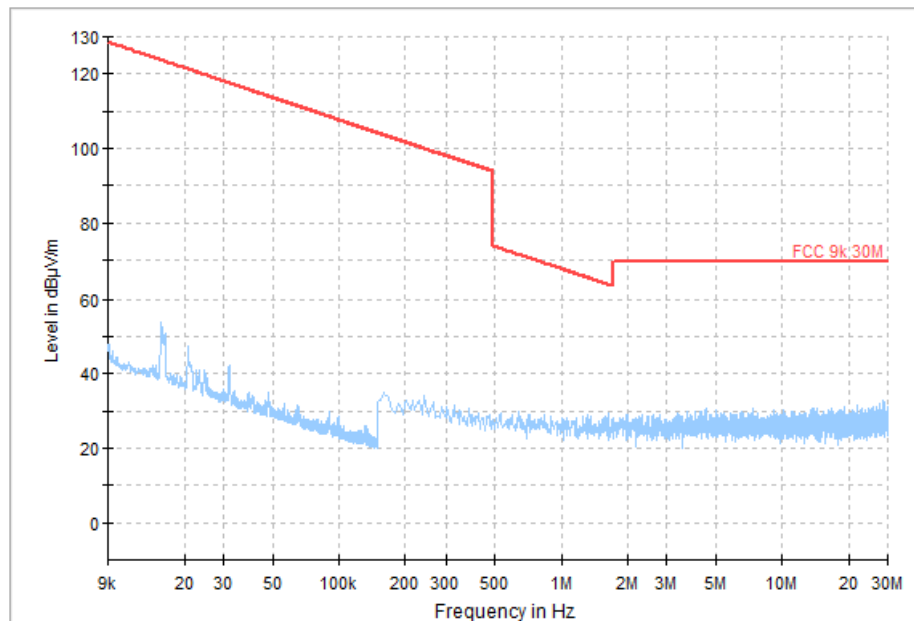


Fig. 71 Radiated Spurious Emission (All Channel, 9 kHz ~ 30 MHz)

A.10. AC Power Line Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

RLAN (Quasi-peak Limit) - AE2

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	66 to 56	Fig.72	Fig.73	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.

RLAN (Average Limit) - AE2

Frequency range (MHz)	Average-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		Traffic	Idle	
0.15 to 0.5	56 to 46	Fig.72	Fig.73	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.

Note: The measurement results include the L1 and N measurements.

Conclusion: PASS

Test graphs as below:

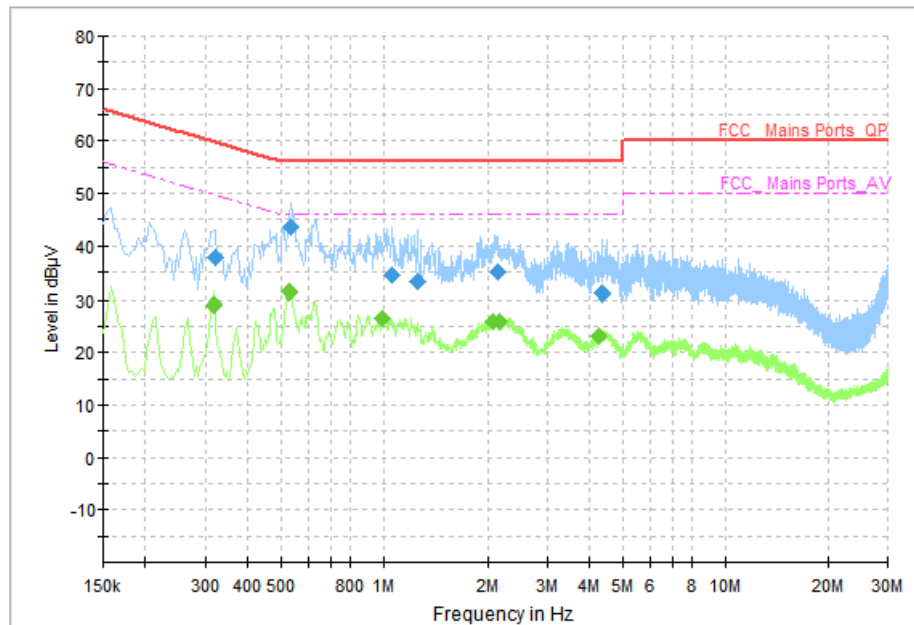


Fig. 72 AC Power line Conducted Emission (Traffic)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.322000	37.71	59.66	21.94	L1	ON	10
0.534000	43.48	56.00	12.52	L1	ON	10
1.058000	34.36	56.00	21.64	L1	ON	10
1.262000	33.21	56.00	22.79	L1	ON	10
2.134000	35.16	56.00	20.84	L1	ON	10
4.334000	31.07	56.00	24.93	L1	ON	10

Measurement Result: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.318000	29.04	49.76	20.72	N	ON	10
0.530000	31.32	46.00	14.68	N	ON	10
0.994000	26.57	46.00	19.43	L1	ON	10
2.082000	25.93	46.00	20.07	L1	ON	10
2.174000	25.90	46.00	20.10	L1	ON	10
4.254000	22.99	46.00	23.01	L1	ON	10

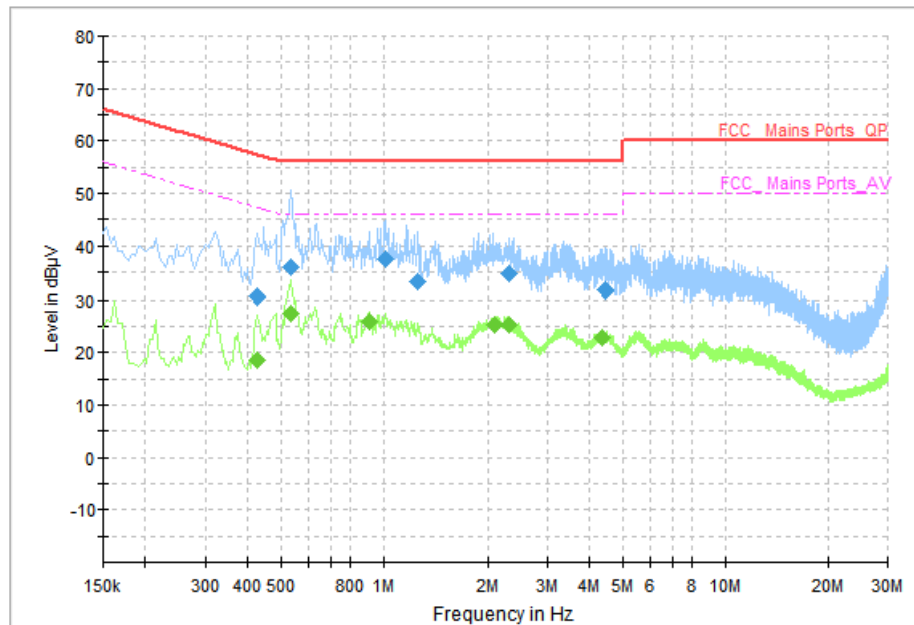


Fig. 73 AC Power line Conducted Emission (Idle)

Measurement Result: Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.426000	30.43	57.33	26.90	L1	ON	10
0.534000	36.02	56.00	19.98	L1	ON	10
1.010000	37.39	56.00	18.61	L1	ON	10
1.266000	33.23	56.00	22.77	L1	ON	10
2.310000	34.83	56.00	21.17	L1	ON	10
4.434000	31.73	56.00	24.27	L1	ON	10

Measurement Result: Average

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.426000	18.46	47.33	28.87	N	ON	10
0.534000	27.38	46.00	18.62	L1	ON	10
0.906000	25.80	46.00	20.20	L1	ON	10
2.090000	25.41	46.00	20.59	L1	ON	10
2.318000	25.23	46.00	20.77	L1	ON	10
4.350000	22.91	46.00	23.09	L1	ON	10



A.11. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500mW).

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