



TEST REPORT

No. I22N00378-RLAN

TCL Communication Ltd.

Tablet PC

Model Name: 9132X

with

Hardware Version: PIO

Software Version: CS61

FCC ID: 2ACCJB176

Issued Date: 2022-03-18

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.

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1. Summary of Test Report

1.1. Test Items

Description	Tablet PC
Model Name	9132X
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.

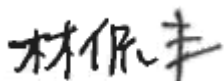
1.4. Testing Location

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

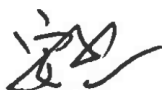
1.5. Project data

Testing Start Date:	2022-02-10
Testing End Date:	2022-03-10

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	9132X
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	1.6 dBi
Power Supply	3.85V DC by Battery
FCC ID	2ACCJB176
Condition of EUT as received	No abnormality in appearance

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version	Receive Date
UT04aa	/	PIO	CS61	2022-02-10
UT02aa	/	PIO	CS61	2022-02-23

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

*UT04aa is used for Conduction test; UT02aa is used for Radiation test.

3.3. Internal Identification of AE

AE ID*	Description	SN
AE1	Battery	CAC4000018C7
AE2	Adapter	CBA0058AATC5
AE3	Adapter	CBA0058ABTC5
AE4	Adapter	CBA0058AGTC5
AE5	USB Cable	CDA0000162C2
AE6	USB Cable	CDA0000162C1

*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.

According to the customer's description, 9132X is a variant product of 9132G. Conduction test results were from the initial model. And Radiation test is new. The initial model report number is I22N00113-RLAN.

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 Due date	Calibration Period
1	LISN	ENV216	102067	R&S	2022-07-15	1 year
2	Test Receiver	ESCI	100702	R&S	2023-01-12	1 year
3	Loop Antenna	HLA6120	35779	TESEQ	2022-04-25	3 year
4	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024-05-27	3 year
5	Horn Antenna	3117	00066577	ETS-Lindgren	2022-04-02	3 year
6	Test Receiver	ESR7	101676	R&S	2022-11-24	1 year
7	Spectrum Analyzer	FSV40	101192	R&S	2023-01-12	1 year
8	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023-05-29	2 year
9	Antenna	QSH-SL-1 8-26-S-20	17013	Q-par	2023-01-06	3 year
10	Antenna	QSH-SL-1 8-40-K-SG	15979	Q-par	2023-01-06	3 year

Test software

No.	Equipment	Manufacturer	Version
1	TechMgr Software	CAICT	2.1.1
2	EMC32	Rohde & Schwarz	10.50.40

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	> 2MΩ
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	> 2MΩ
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	> 2MΩ
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

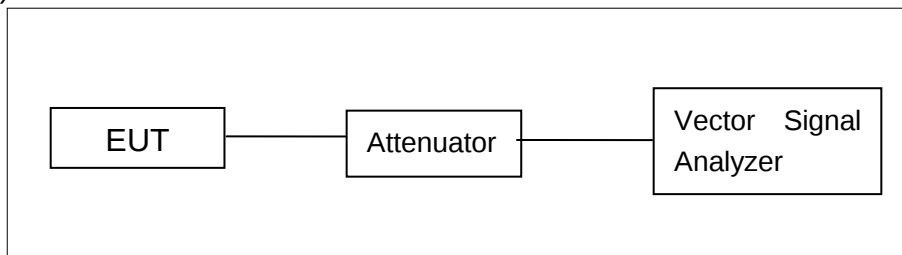
Test Name	Uncertainty ($k=2$)	
1. RF Output Power - Conducted	1.32dB	
2. Power Spectral Density - Conducted	2.32dB	
3. Occupied channel bandwidth - Conducted	66Hz	
4. Transmitter Spurious Emission - Conducted	$30\text{MHz} \leq f < 1\text{GHz}$	1.41dB
	$1\text{GHz} \leq f < 7\text{GHz}$	1.92dB
	$7\text{GHz} \leq f < 13\text{GHz}$	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.

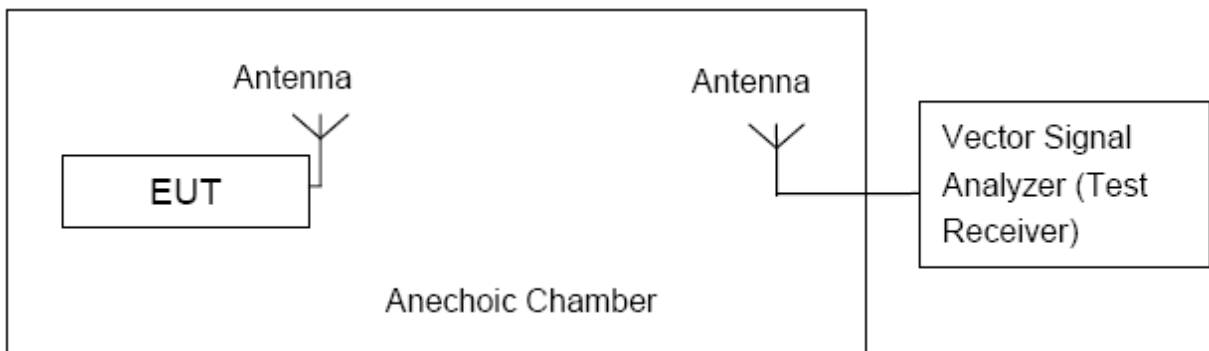


Radiated Emission Measurements

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)	15.72	15.69	15.67	15.64	15.63	15.61	14.34	14.30
	5200MHz(Ch40)	15.81	/	/	/	/	/	/	/
	5240MHz(Ch48)	15.88	/	/	/	/	/	/	/
	5260MHz(Ch52)	15.89	/	/	/	/	/	/	/
	5280MHz(Ch56)	15.85	/	/	/	/	/	/	/
	5320MHz(Ch64)	15.87	/	/	/	/	/	/	/
	5745MHz(Ch149)	15.41	/	/	/	/	/	/	/
	5785MHz(Ch157)	15.47	/	/	/	/	/	/	/
	5825MHz(Ch165)	15.51	/	/	/	/	/	/	/

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)	15.67	15.64	15.60	15.58	15.57	15.55	14.23	14.22
	5200MHz(Ch40)	15.64	/	/	/	/	/	/	/
	5240MHz(Ch48)	15.76	/	/	/	/	/	/	/
	5260MHz(Ch52)	15.77	/	/	/	/	/	/	/
	5280MHz(Ch56)	15.71	/	/	/	/	/	/	/
	5320MHz(Ch64)	15.77	/	/	/	/	/	/	/
	5745MHz(Ch149)	15.31	/	/	/	/	/	/	/
	5785MHz(Ch157)	15.40	/	/	/	/	/	/	/
	5825MHz(Ch165)	15.44	/	/	/	/	/	/	/

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)	15.62	15.60	15.56	15.55	15.53	15.49	14.17	14.13
	5200MHz(Ch40)	15.66	/	/	/	/	/	/	/
	5240MHz(Ch48)	15.71	/	/	/	/	/	/	/
	5260MHz(Ch52)	15.79	/	/	/	/	/	/	/
	5280MHz(Ch56)	15.71	/	/	/	/	/	/	/
	5320MHz(Ch64)	15.74	/	/	/	/	/	/	/
	5745MHz(Ch149)	15.35	/	/	/	/	/	/	/
	5785MHz(Ch157)	15.38	/	/	/	/	/	/	/
	5825MHz(Ch165)	15.42	/	/	/	/	/	/	/

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)	14.41	14.39	14.36	14.32	14.33	14.30	13.06	13.07
	5230MHz(Ch46)	14.47	/	/	/	/	/	/	/
	5270MHz(Ch54)	14.51	/	/	/	/	/	/	/
	5310MHz(Ch62)	14.48	/	/	/	/	/	/	/
	5755MHz(Ch151)	14.23	/	/	/	/	/	/	/
	5795MHz(Ch159)	14.25	/	/	/	/	/	/	/

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)	14.31	14.27	14.24	14.22	14.18	14.17	12.92	12.89
	5230MHz(Ch46)	14.37	/	/	/	/	/	/	/
	5270MHz(Ch54)	14.39	/	/	/	/	/	/	/
	5310MHz(Ch62)	14.36	/	/	/	/	/	/	/
	5755MHz(Ch151)	14.00	/	/	/	/	/	/	/
	5795MHz(Ch159)	14.13	/	/	/	/	/	/	/

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)	13.63	13.60	13.57	13.56	13.52	13.51	12.24	12.22
	5290MHz(Ch58)	13.71	/	/	/	/	/	/	/
	5775MHz(Ch155)	13.32	/	/	/	/	/	/	/



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)	4.37	P
	5200MHz(Ch40)	4.28	P
	5240MHz(Ch48)	4.61	P
802.11n HT40	5190MHz(Ch38)	-0.08	P
	5230MHz(Ch46)	0.12	P
802.11ac VHT80	5210MHz(Ch42)	-4.56	P

5.3GHz Band (UNII-2A)

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5260MHz(Ch52)	4.41	P
	5280MHz(Ch56)	4.41	P
	5320MHz(Ch64)	4.29	P
802.11n HT40	5270MHz(Ch54)	-0.11	P
	5310MHz(Ch62)	0.08	P
802.11ac VHT80	5290MHz(Ch58)	-4.13	P

5.8GHz Band (UNII-3)

Mode	Channel	Power Spectral Density (dBm/500kHz)	Conclusion
802.11a	5745MHz(CH149)	0.84	P
	5785MHz(CH157)	1.23	P
	5825MHz(CH165)	1.25	P
802.11n HT40	5755MHz(CH151)	-3.81	P
	5795MHz(CH159)	-3.21	P
802.11ac VHT80	5775MHz(CH155)	-7.68	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	27.05	P
	5200MHz(Ch40)	Fig.2	27.90	P
	5240MHz(Ch48)	Fig.3	28.70	P
	5260MHz(Ch52)	Fig.4	28.20	P
	5280MHz(Ch56)	Fig.5	26.20	P
	5320MHz(Ch64)	Fig.6	26.55	P
802.11n HT40	5190MHz(Ch38)	Fig.7	41.20	P
	5230MHz(Ch46)	Fig.8	40.72	P
	5270MHz(Ch54)	Fig.9	41.28	P
	5310MHz(Ch62)	Fig.10	40.88	P
802.11ac VHT80	5210MHz(Ch42)	Fig.11	81.60	P
	5290MHz(Ch58)	Fig.12	80.96	P

Conclusion: PASS

Test graphs as below:

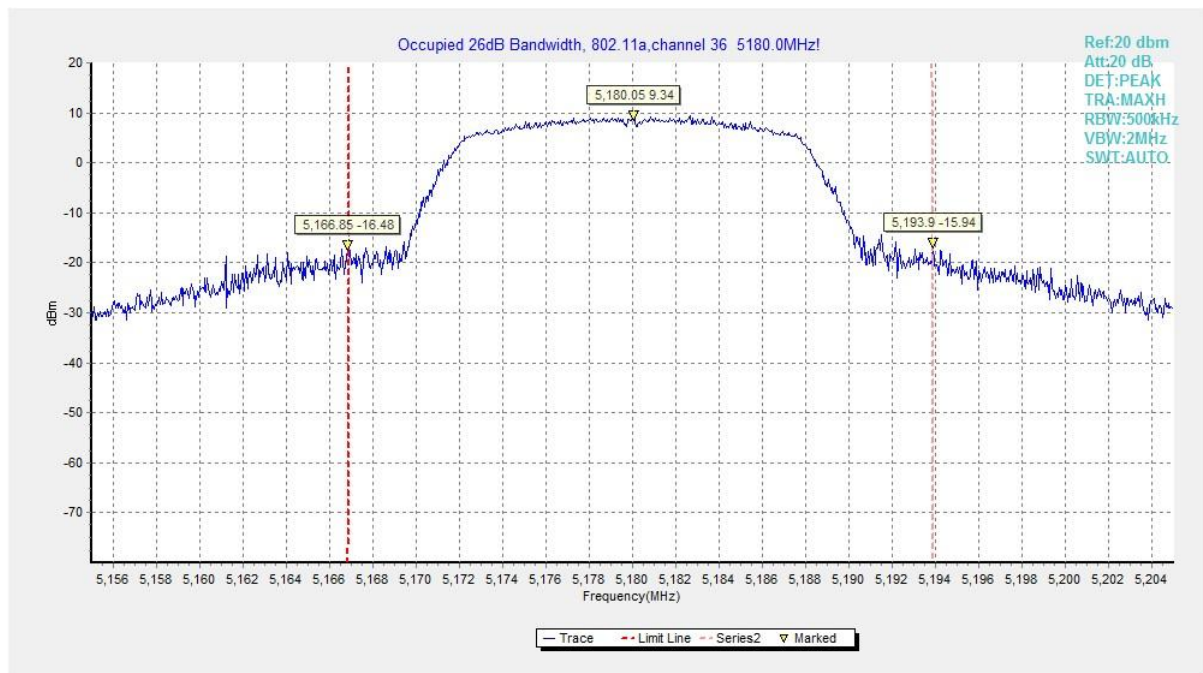


Fig. 1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

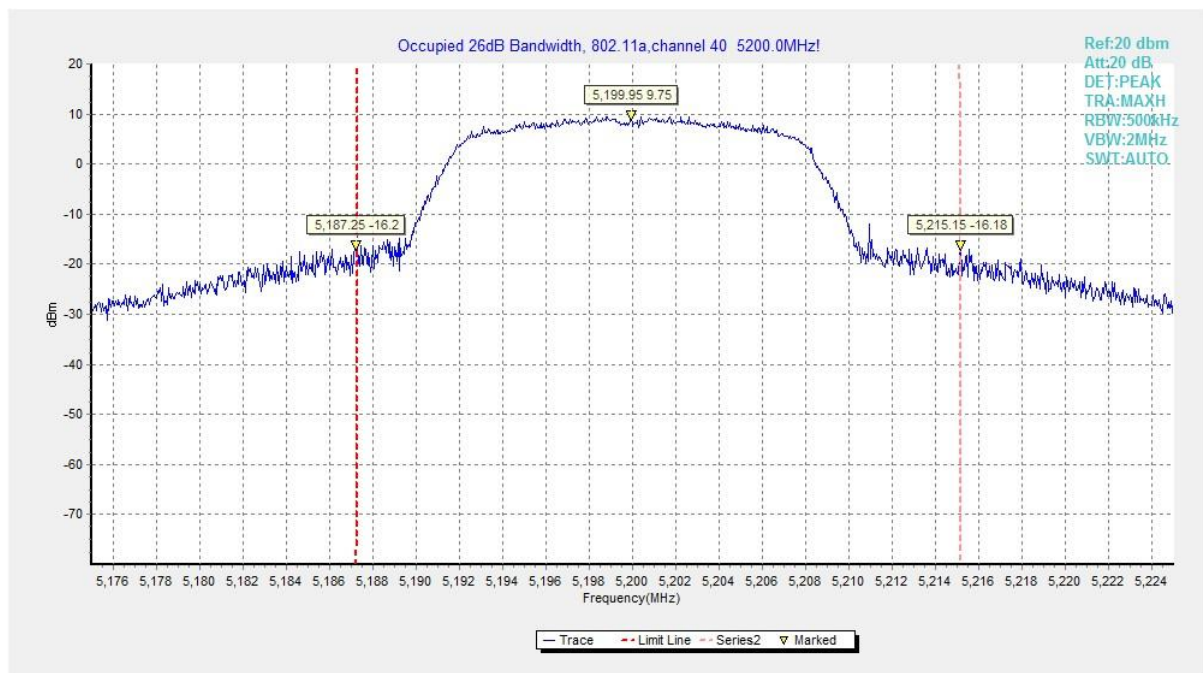


Fig. 2 Occupied 26dB Bandwidth (802.11a, 5200MHz)

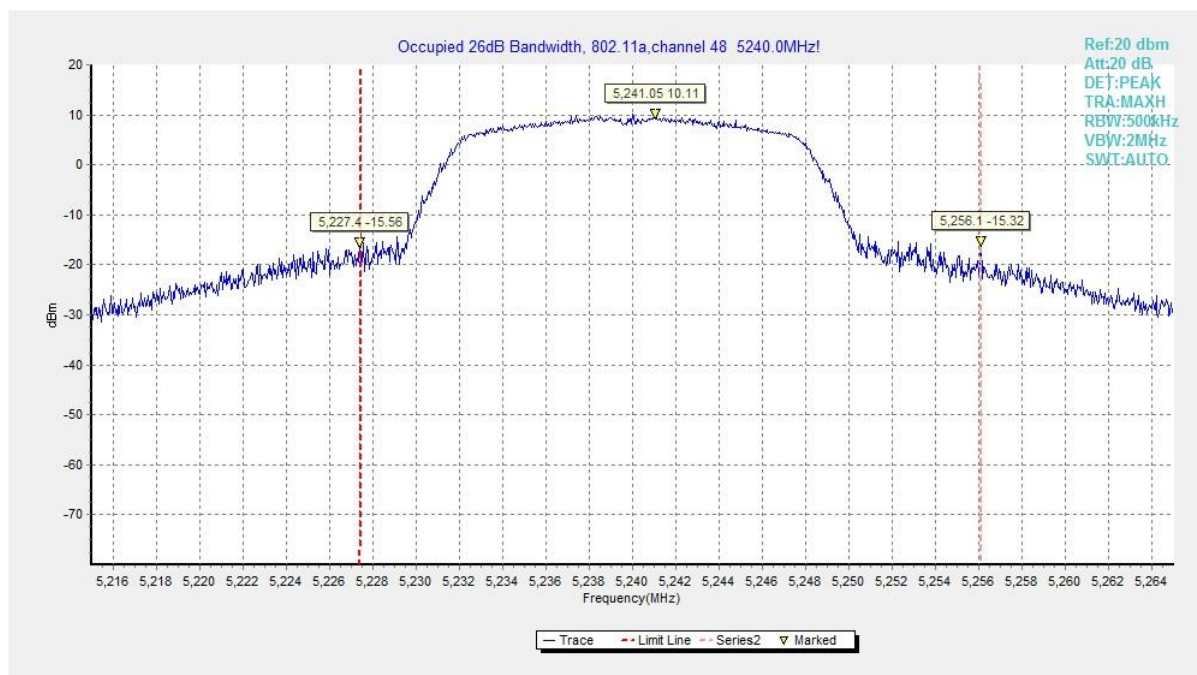


Fig. 3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

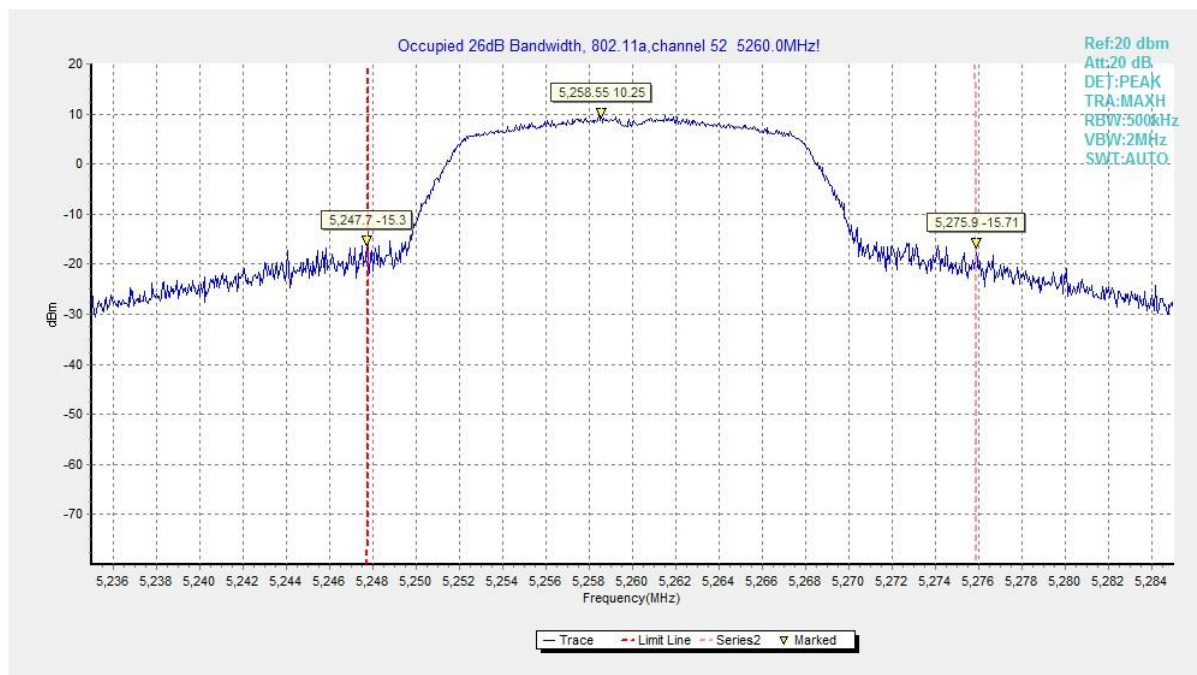


Fig. 4 Occupied 26dB Bandwidth (802.11a, 5260MHz)

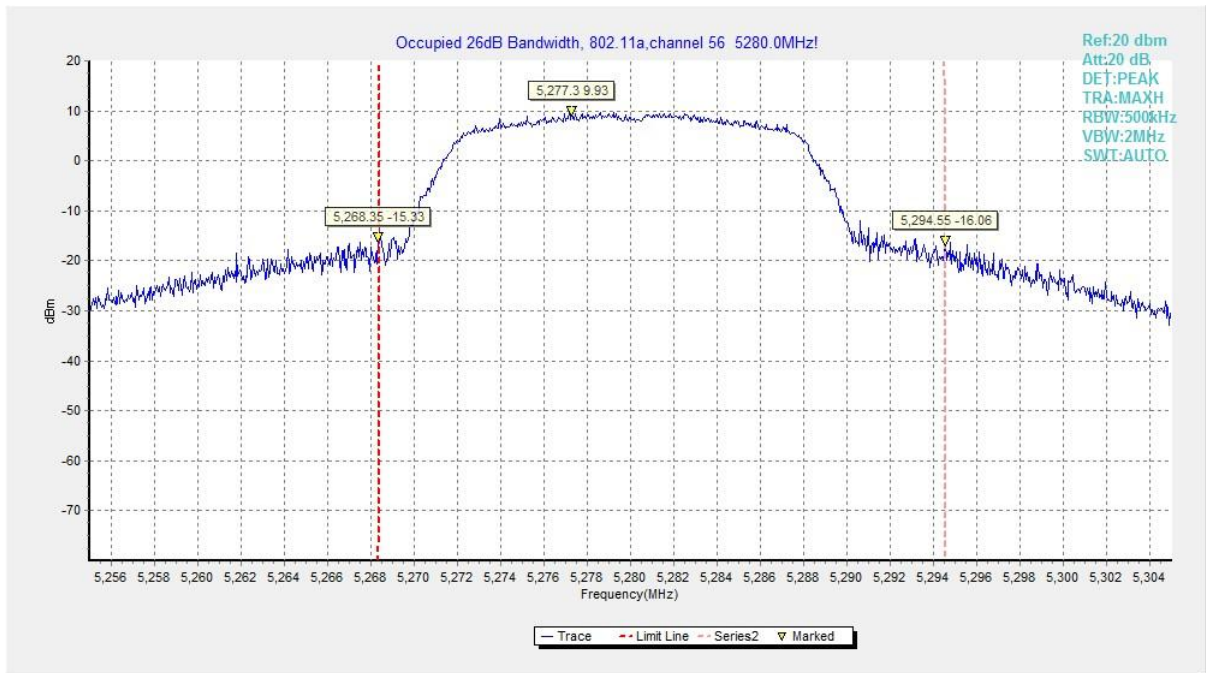


Fig. 5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

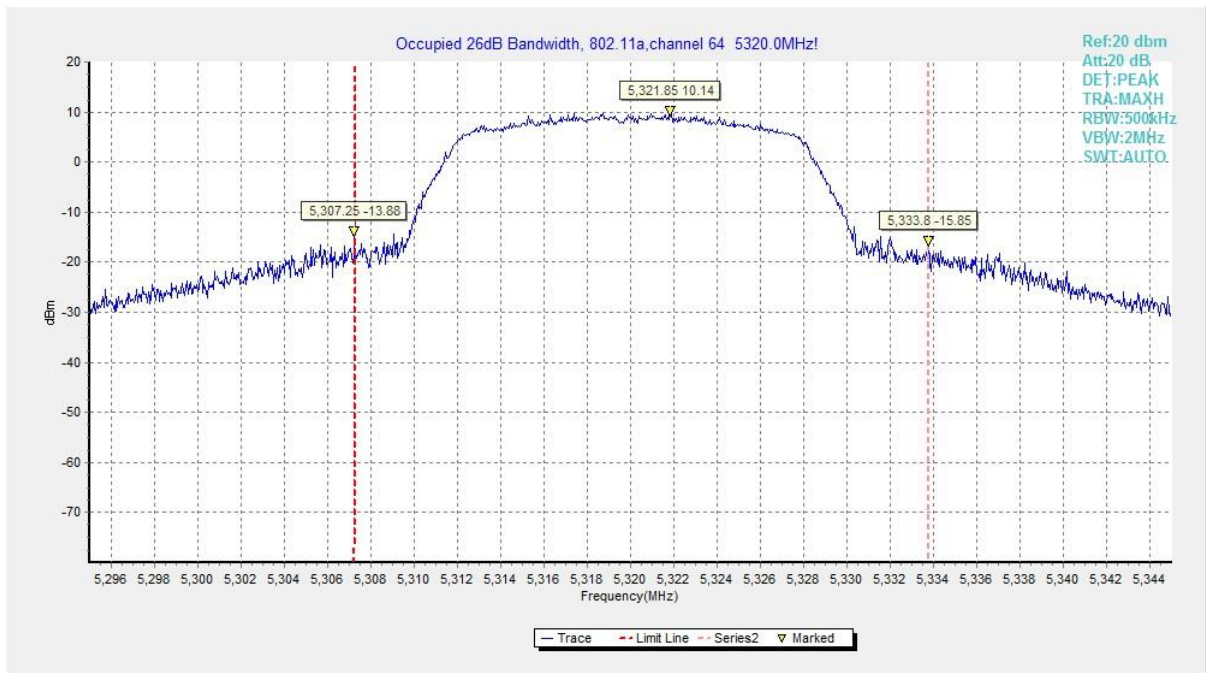


Fig. 6 Occupied 26dB Bandwidth (802.11a, 5320MHz)

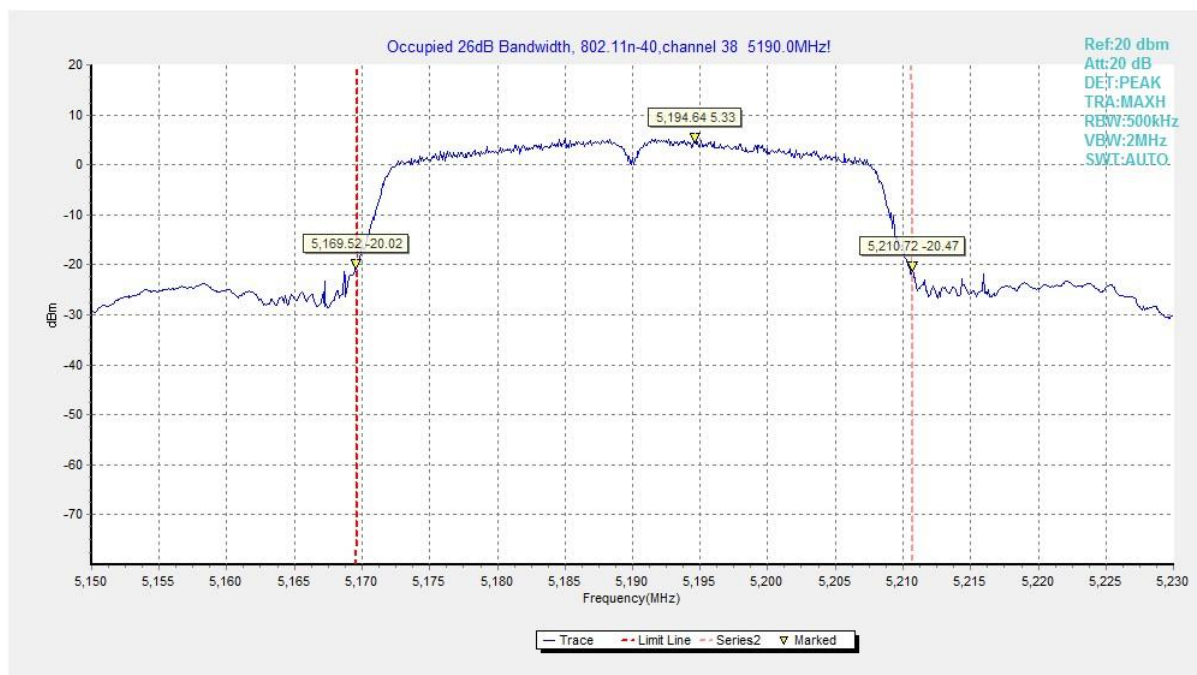


Fig. 7 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)

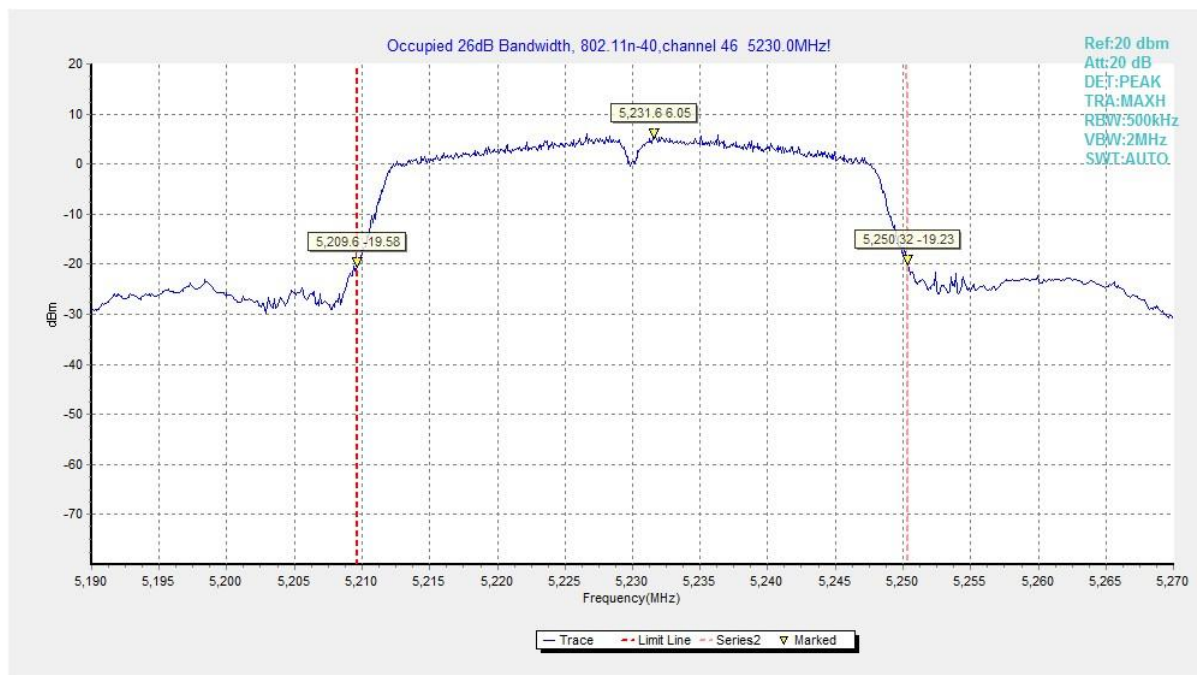


Fig. 8 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)

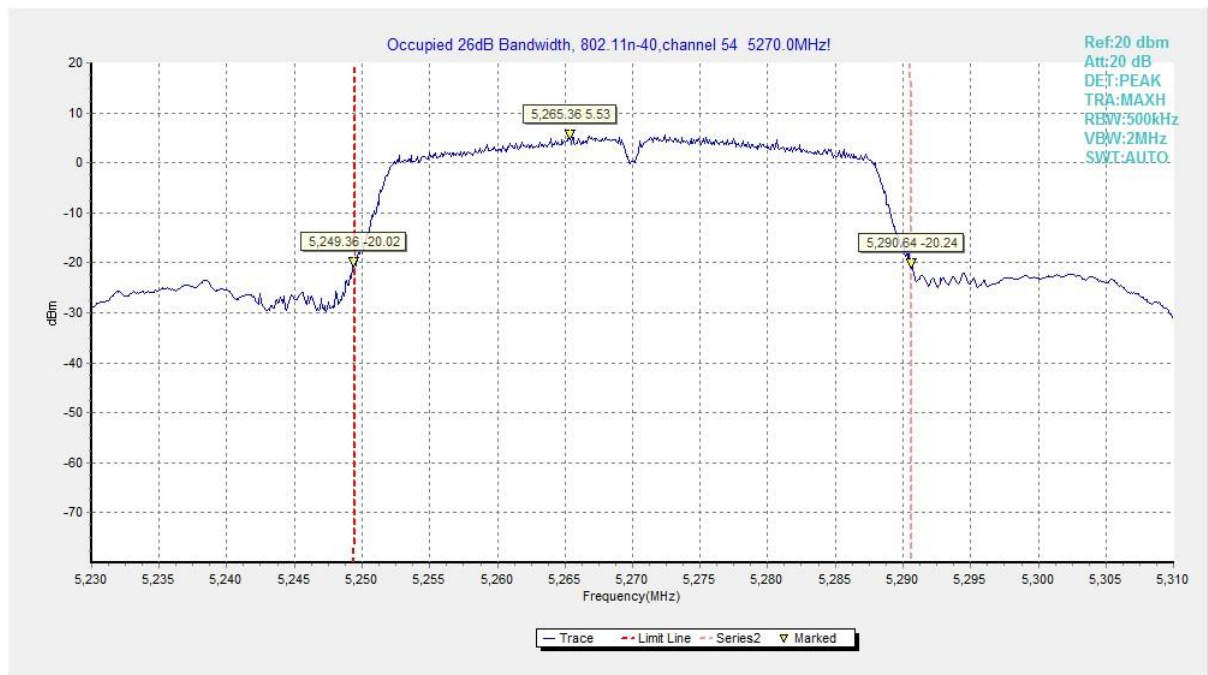


Fig. 9 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)

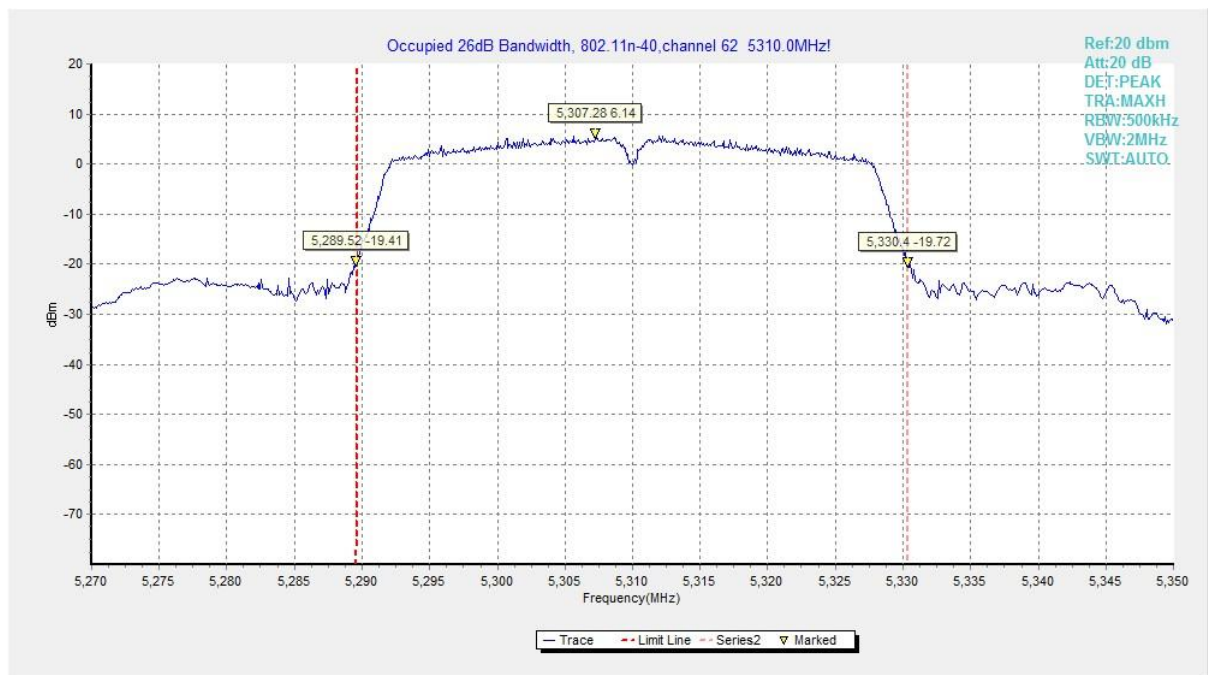


Fig. 10 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)

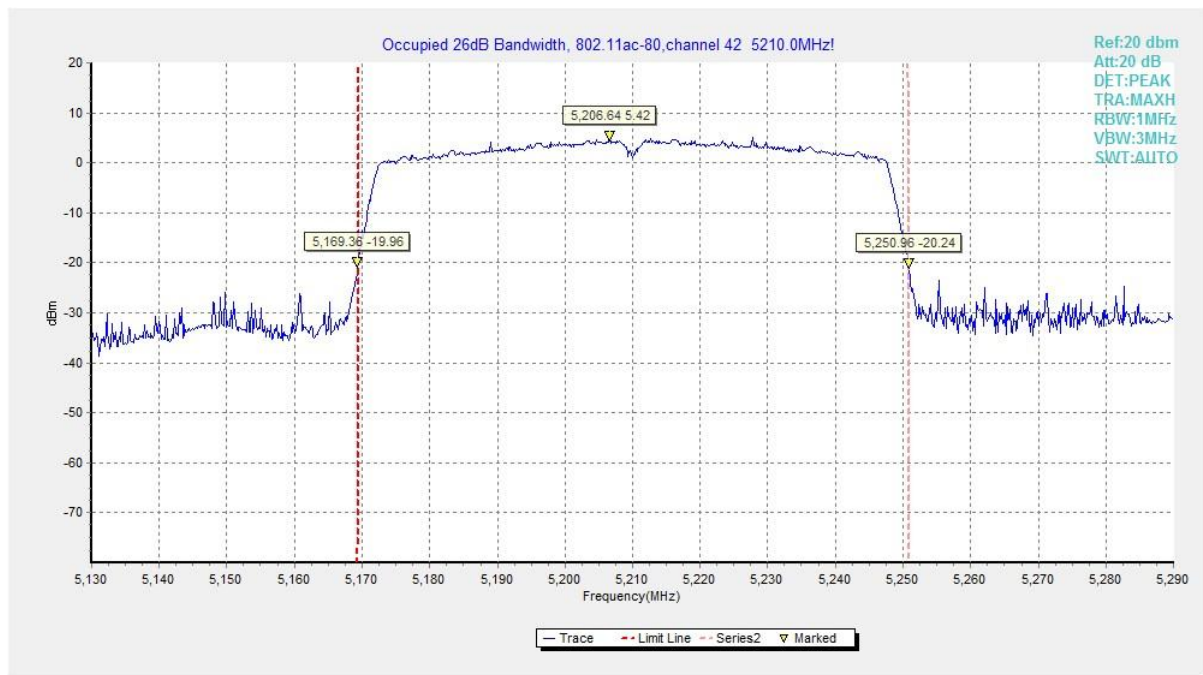


Fig. 11 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5210MHz)

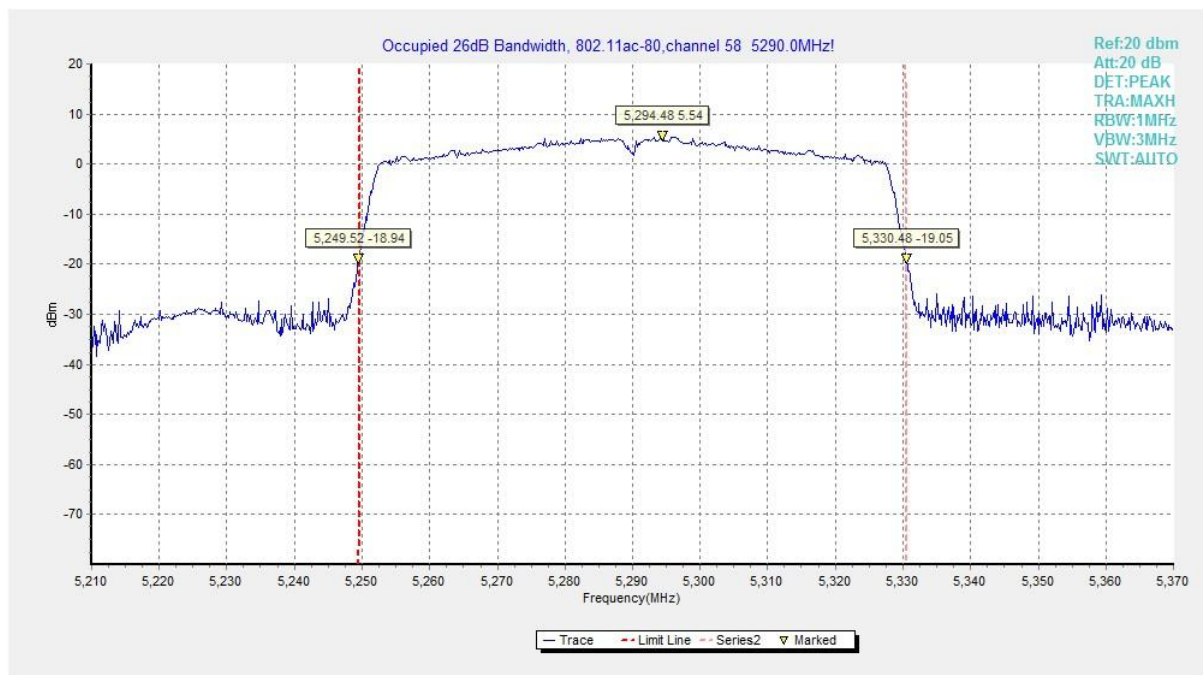


Fig. 12 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5290MHz)

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	15.45	P
	5785MHz(Ch157)	Fig.14	15.10	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:

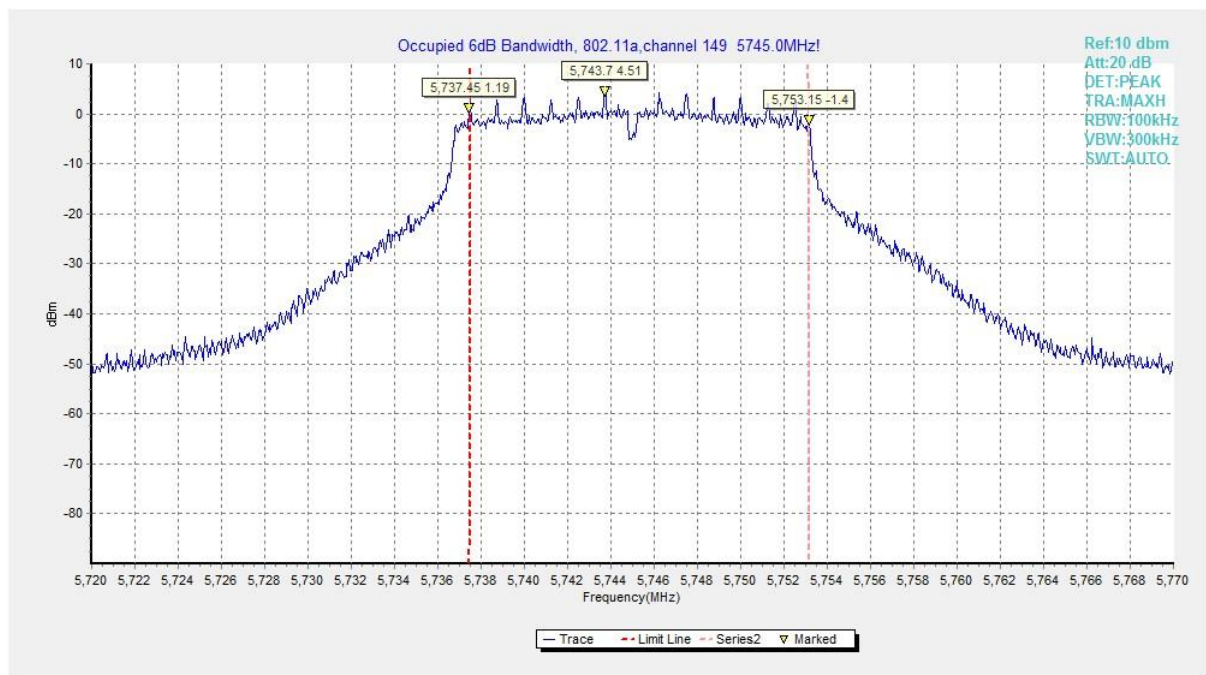


Fig. 13 Occupied 6dB Bandwidth (802.11a, 5745MHz)

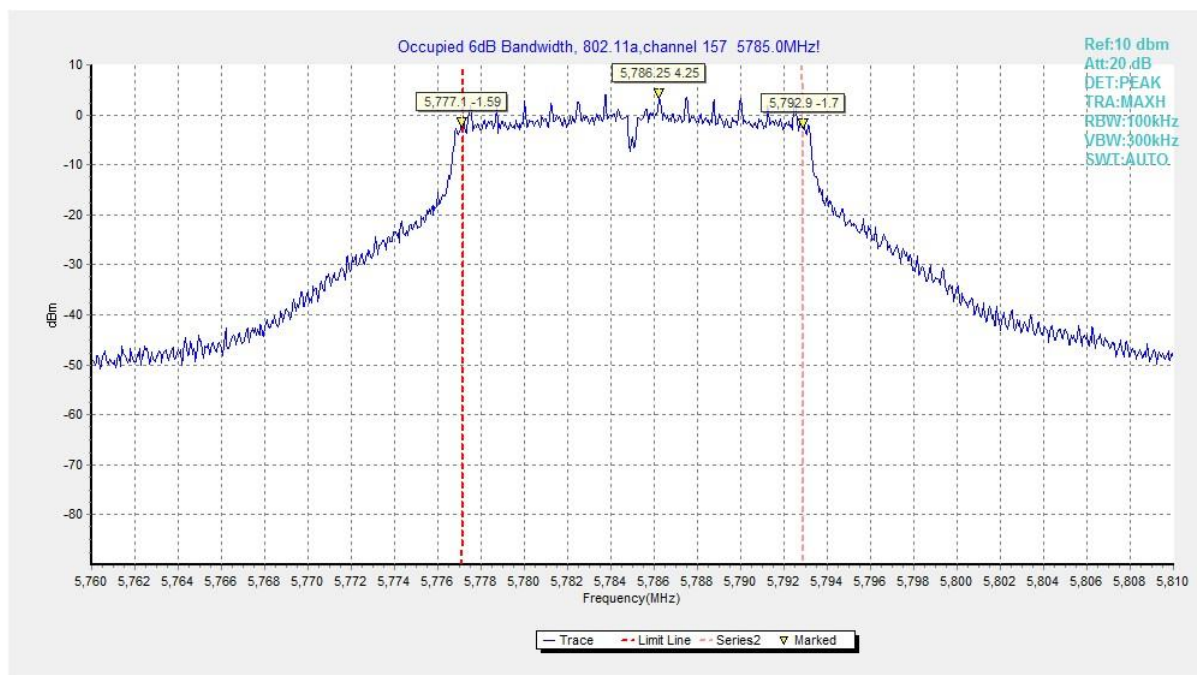


Fig. 14 Occupied 6dB Bandwidth (802.11a, 5785MHz)

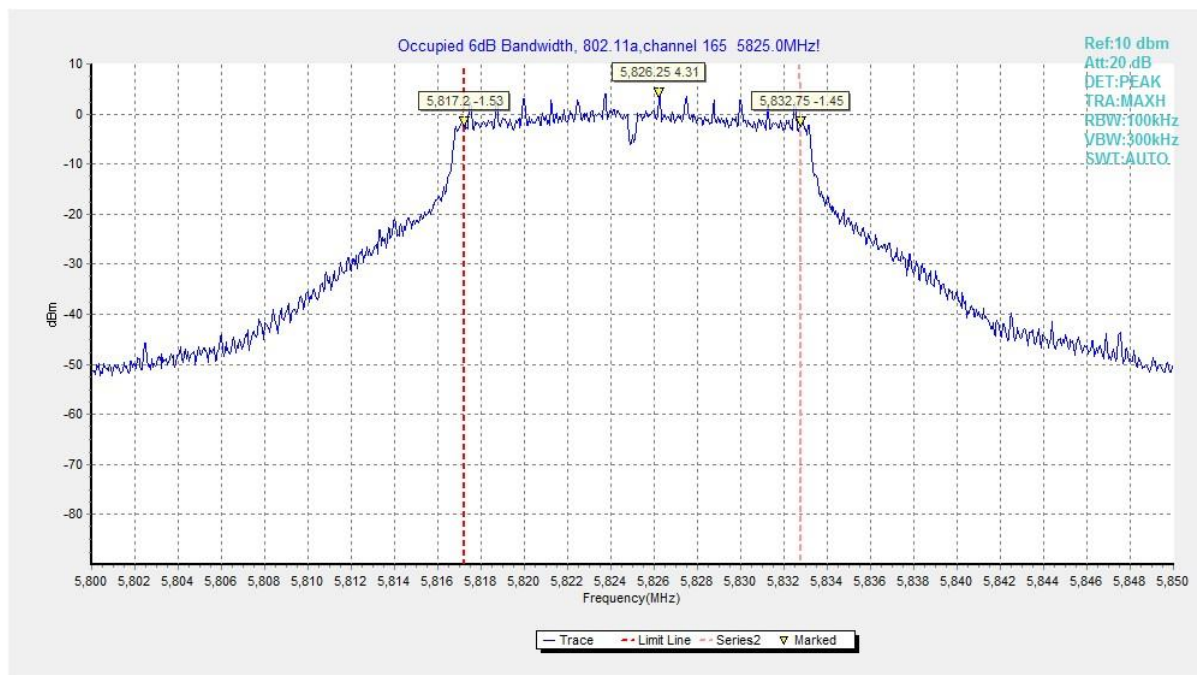


Fig. 15 Occupied 6dB Bandwidth (802.11a, 5825MHz)

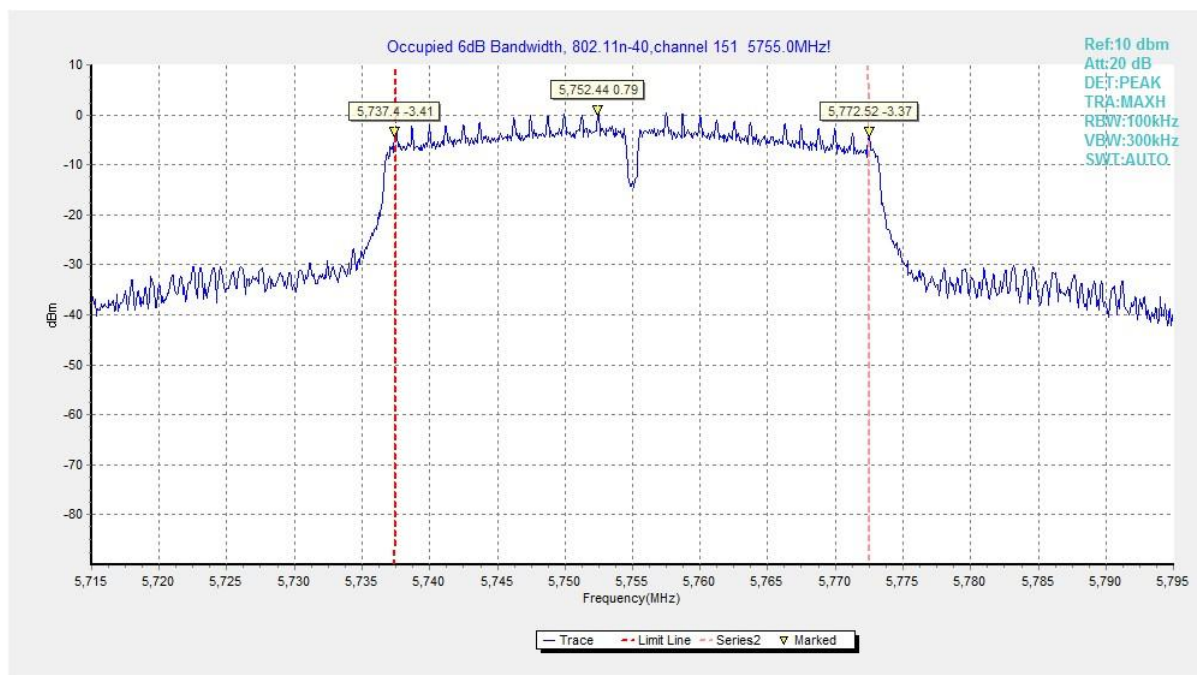


Fig. 16 Occupied 6dB Bandwidth (802.11n-HT40, 5755MHz)

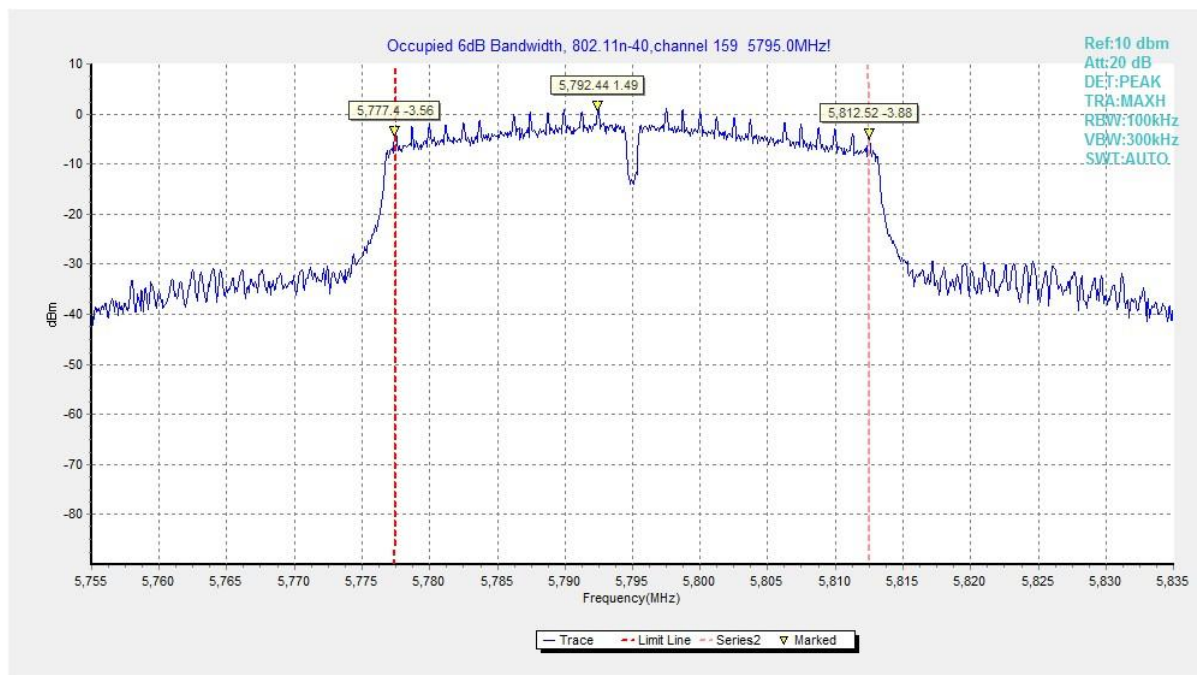


Fig. 17 Occupied 6dB Bandwidth (802.11n-HT40, 5795MHz)

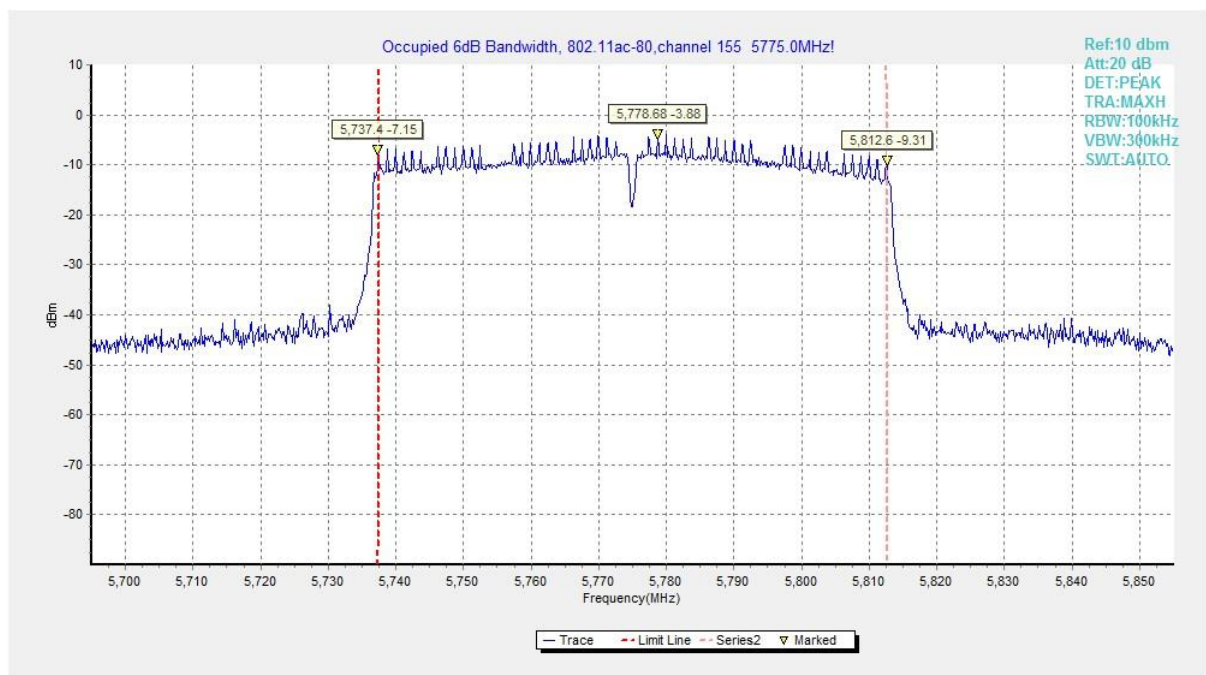


Fig. 18 Occupied 6dB Bandwidth (802.11ac-VHT80, 5775MHz)

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	17.52	P
	5200MHz(Ch40)	Fig.20	17.48	P
	5240MHz(Ch48)	Fig.21	17.48	P
	5260MHz(Ch52)	Fig.22	17.56	P
	5280MHz(Ch56)	Fig.23	17.48	P
	5320MHz(Ch64)	Fig.24	17.56	P
	5745MHz(Ch149)	Fig.25	17.60	P
	5785MHz(Ch157)	Fig.26	17.40	P
	5825MHz(Ch165)	Fig.27	17.48	P
802.11n HT40	5190MHz(Ch38)	Fig.28	36.64	P
	5230MHz(Ch46)	Fig.29	36.32	P
	5270MHz(Ch54)	Fig.30	36.40	P
	5310MHz(Ch62)	Fig.31	36.40	P
	5755MHz(Ch151)	Fig.32	36.64	P
	5795MHz(Ch159)	Fig.33	36.40	P
802.11ac VHT80	5210MHz(Ch42)	Fig.34	75.36	P
	5290MHz(Ch58)	Fig.35	75.20	P
	5775MHz(Ch155)	Fig.36	75.20	P

Conclusion: PASS

Test graphs as below:

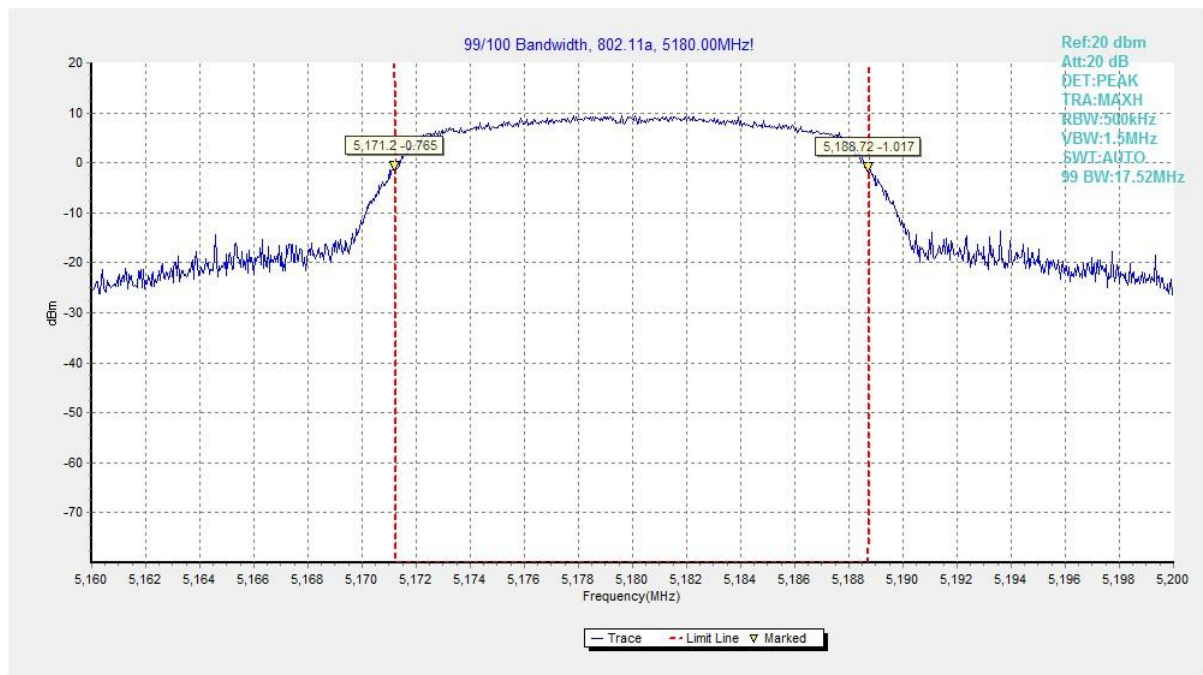


Fig. 19 99% Occupied Bandwidth (802.11a, 5180MHz)

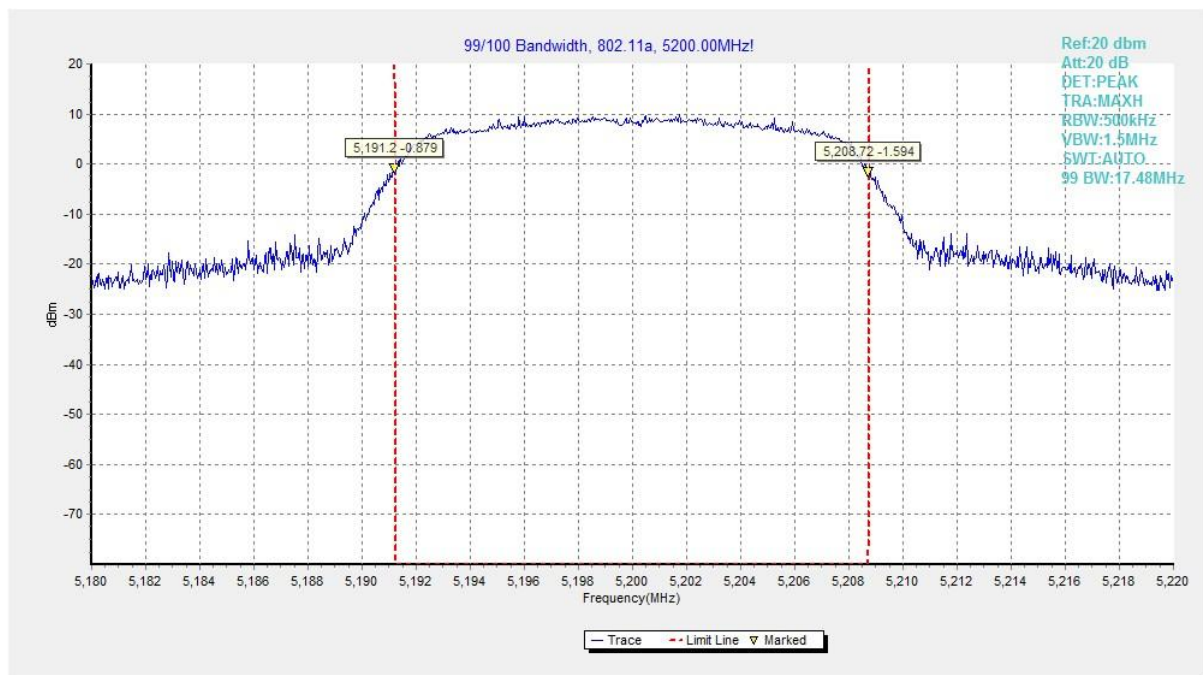


Fig. 20 99% Occupied Bandwidth (802.11a, 5200MHz)

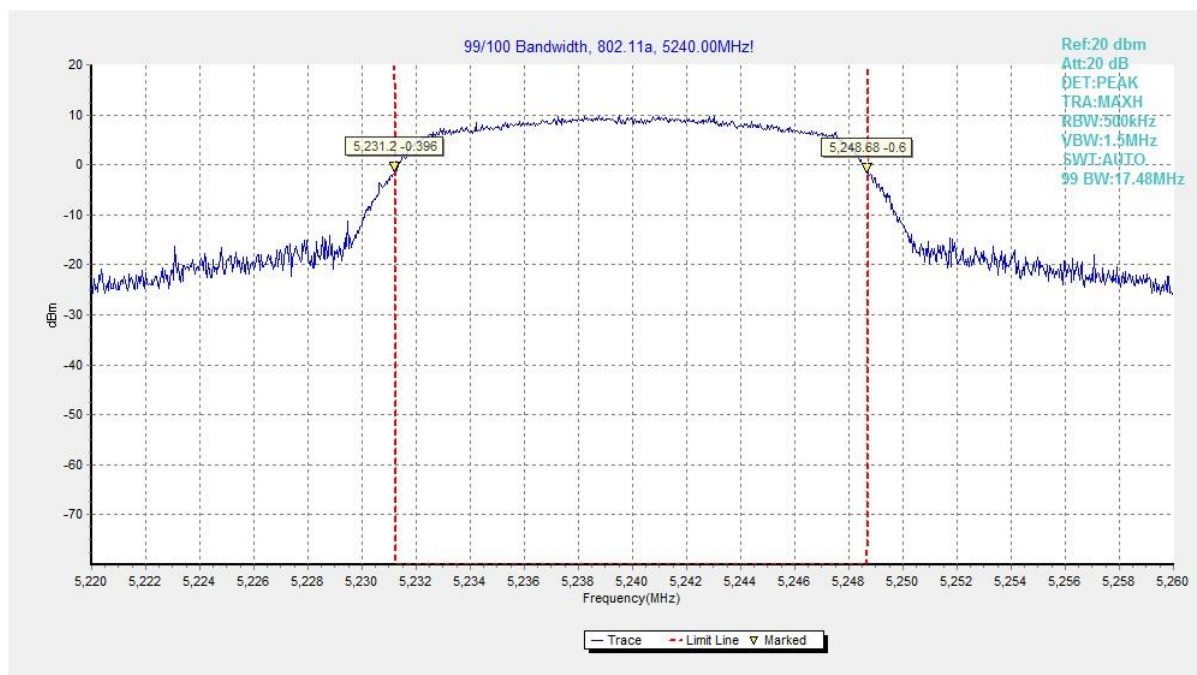


Fig. 21 99% Occupied Bandwidth (802.11a, 5240MHz)

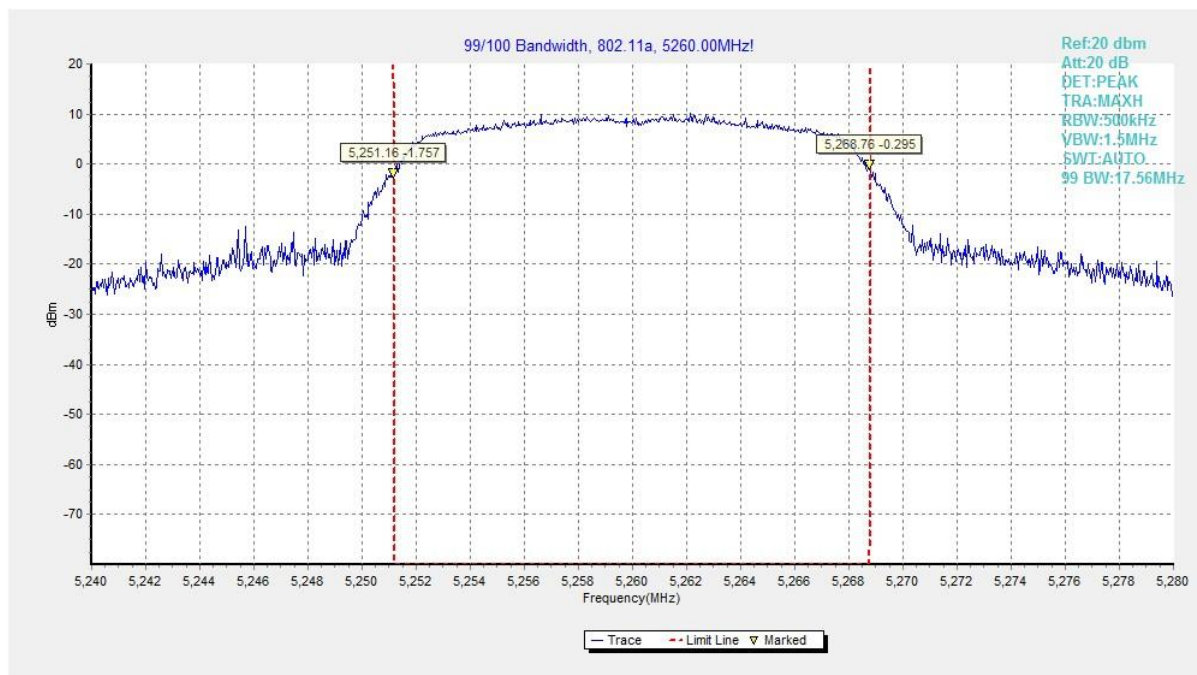


Fig. 22 99% Occupied Bandwidth (802.11a, 5260MHz)

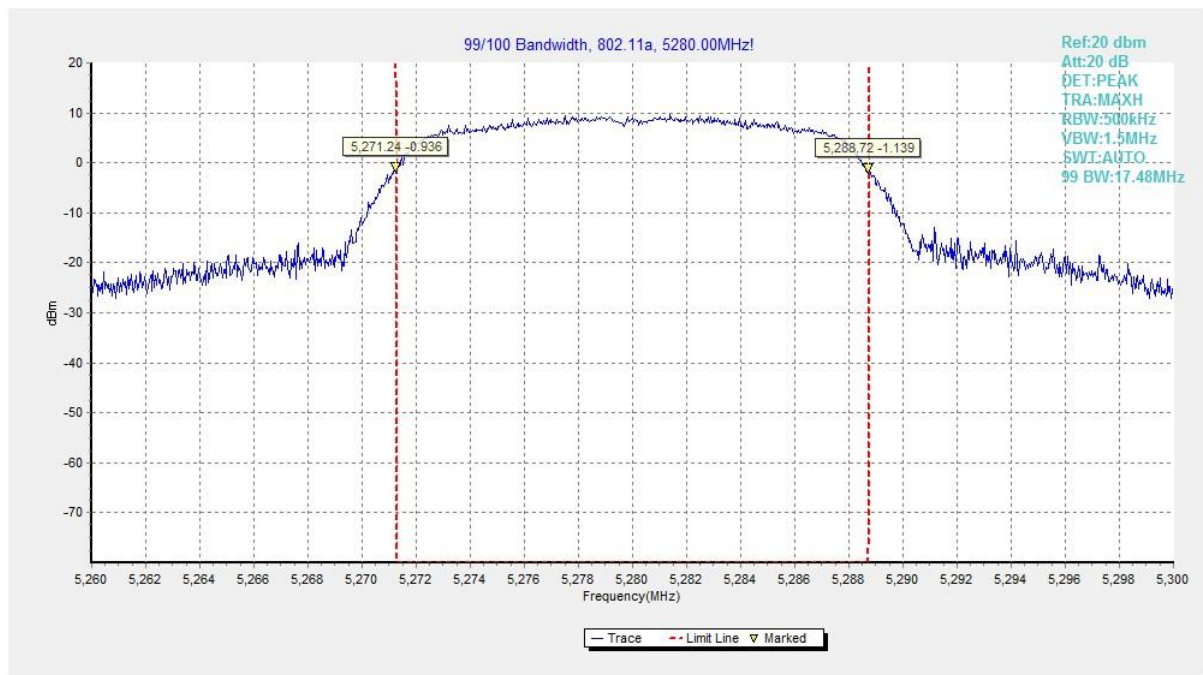


Fig. 23 99% Occupied Bandwidth (802.11a, 5280MHz)

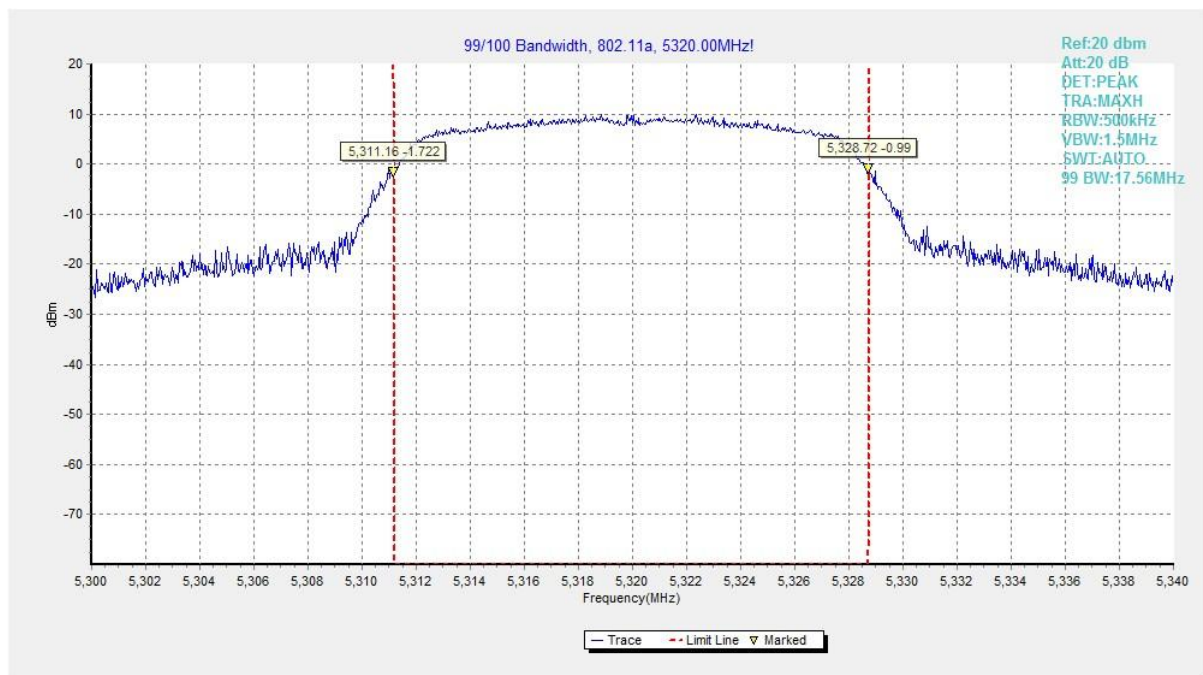


Fig. 24 99% Occupied Bandwidth (802.11a, 5320MHz)

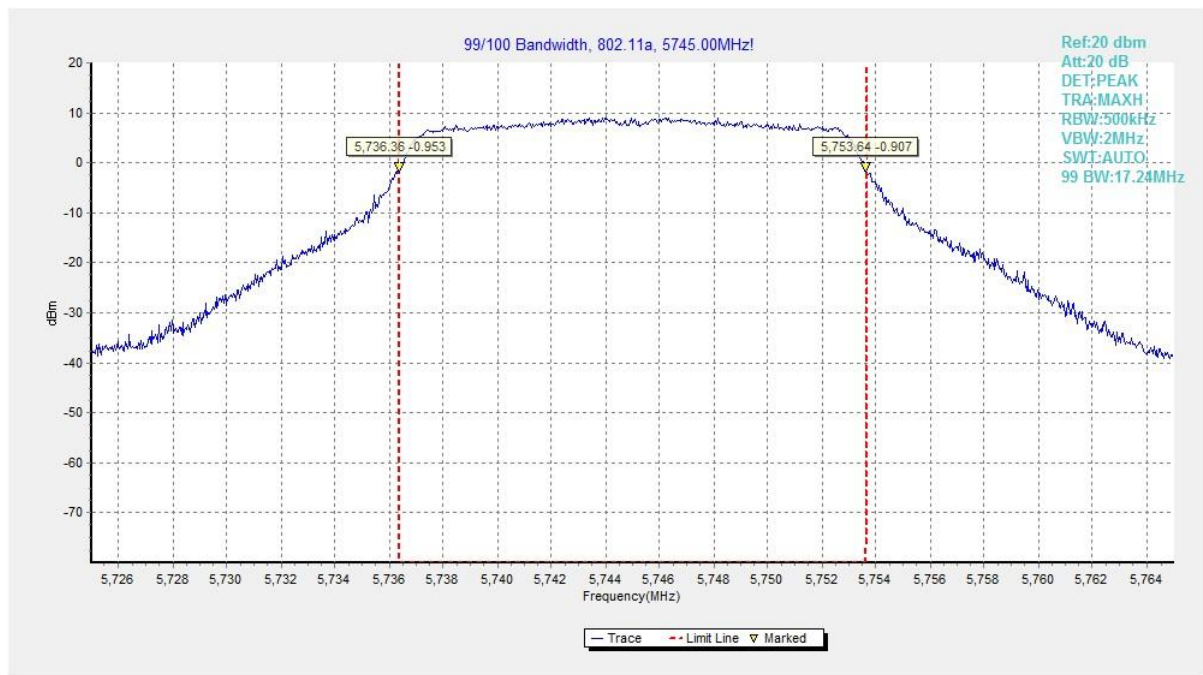


Fig. 25 99% Occupied Bandwidth (802.11a, 5745MHz)

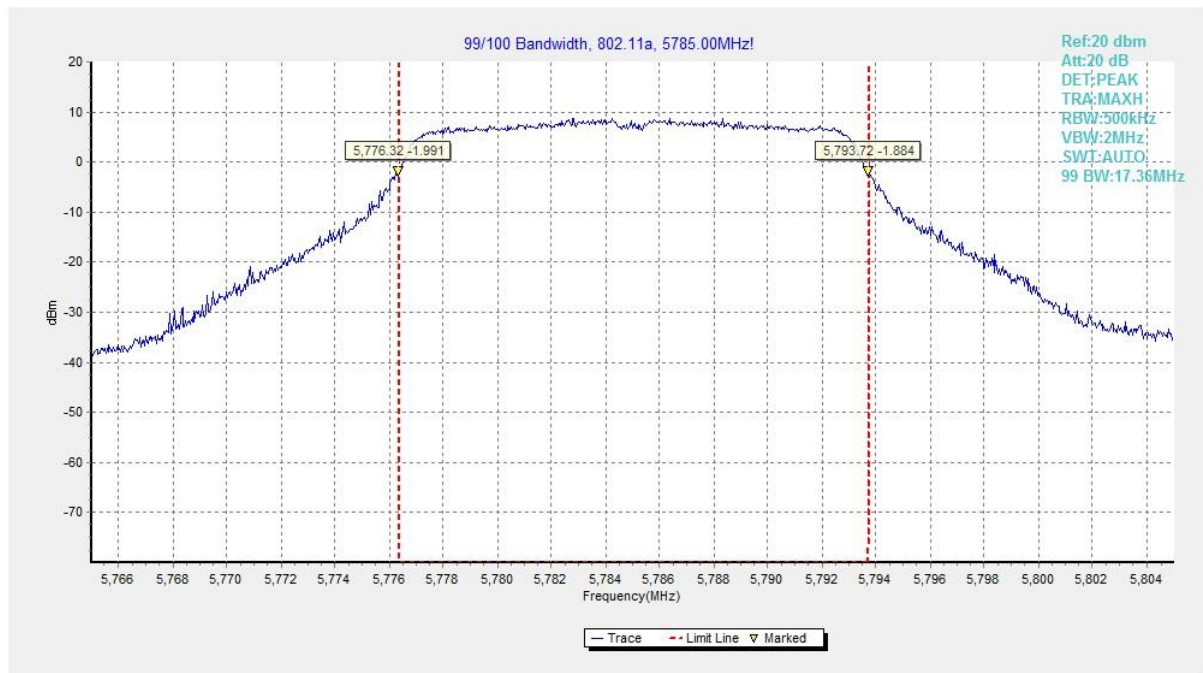


Fig. 26 99% Occupied Bandwidth (802.11a, 5785MHz)

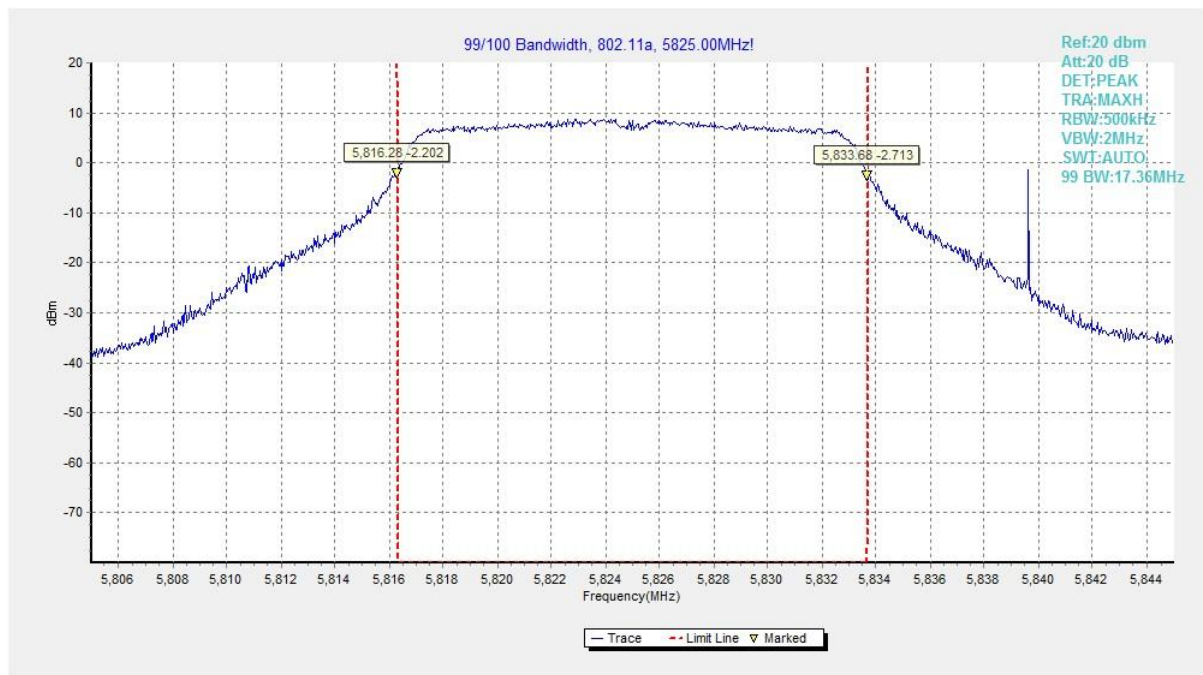


Fig. 27 99% Occupied Bandwidth (802.11a, 5825MHz)

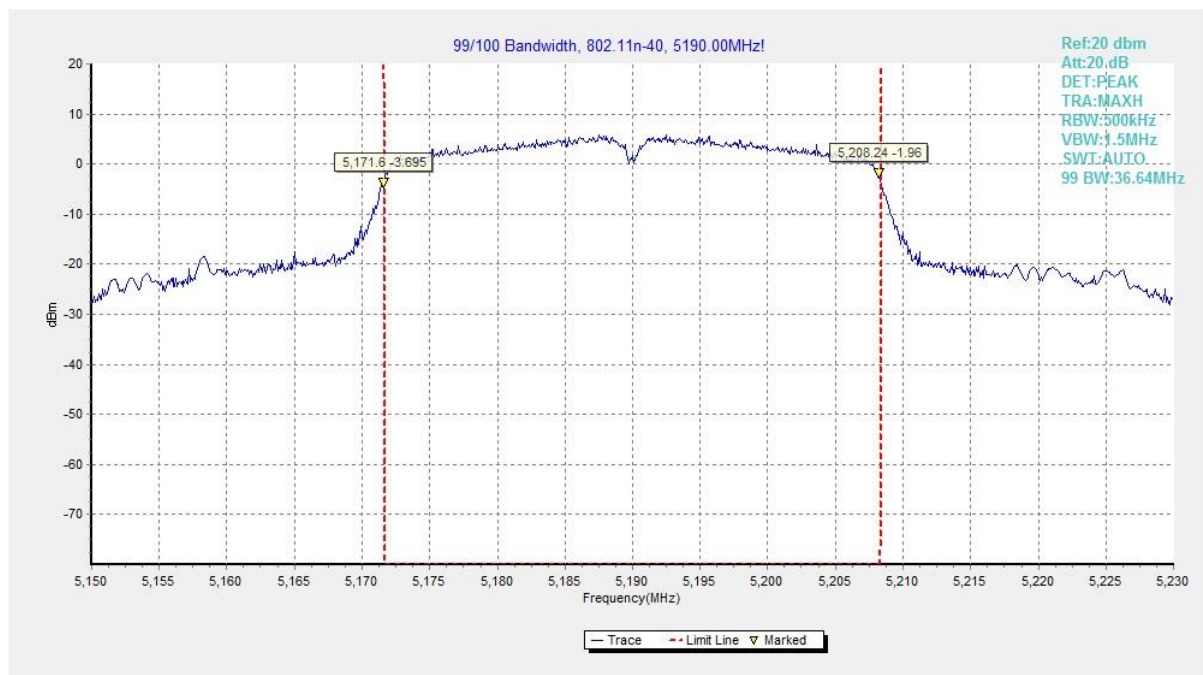


Fig. 28 99% Occupied Bandwidth (802.11n-HT40, 5190MHz)

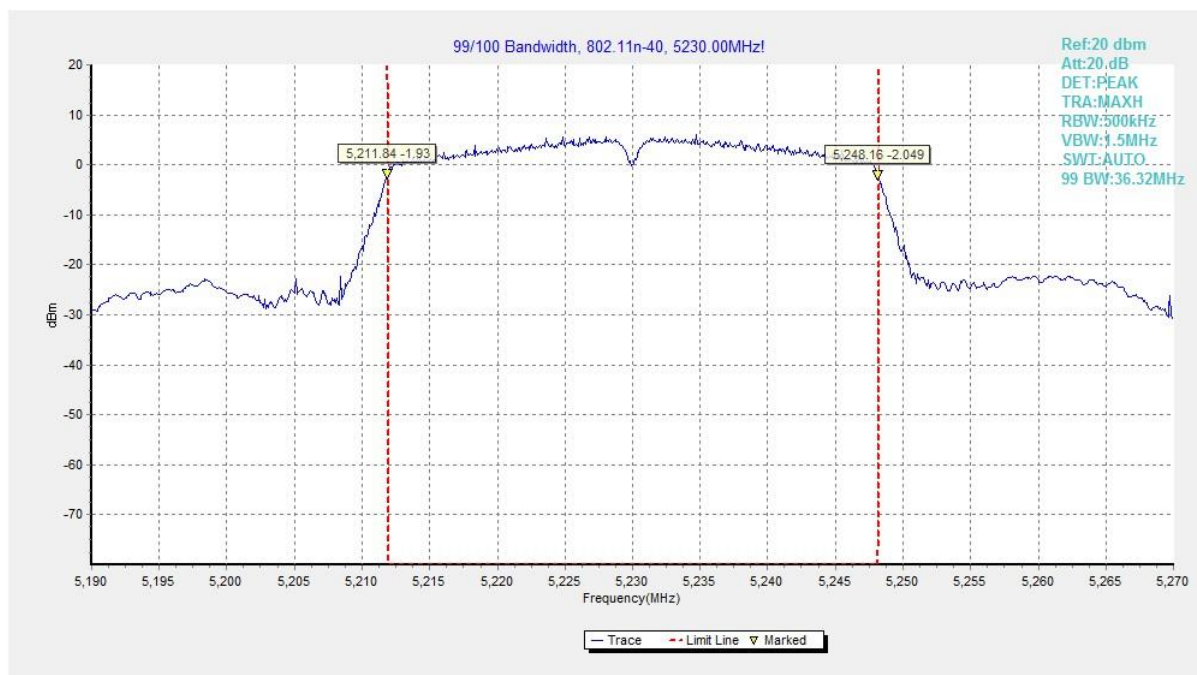


Fig. 29 99% Occupied Bandwidth (802.11n-HT40, 5230MHz)

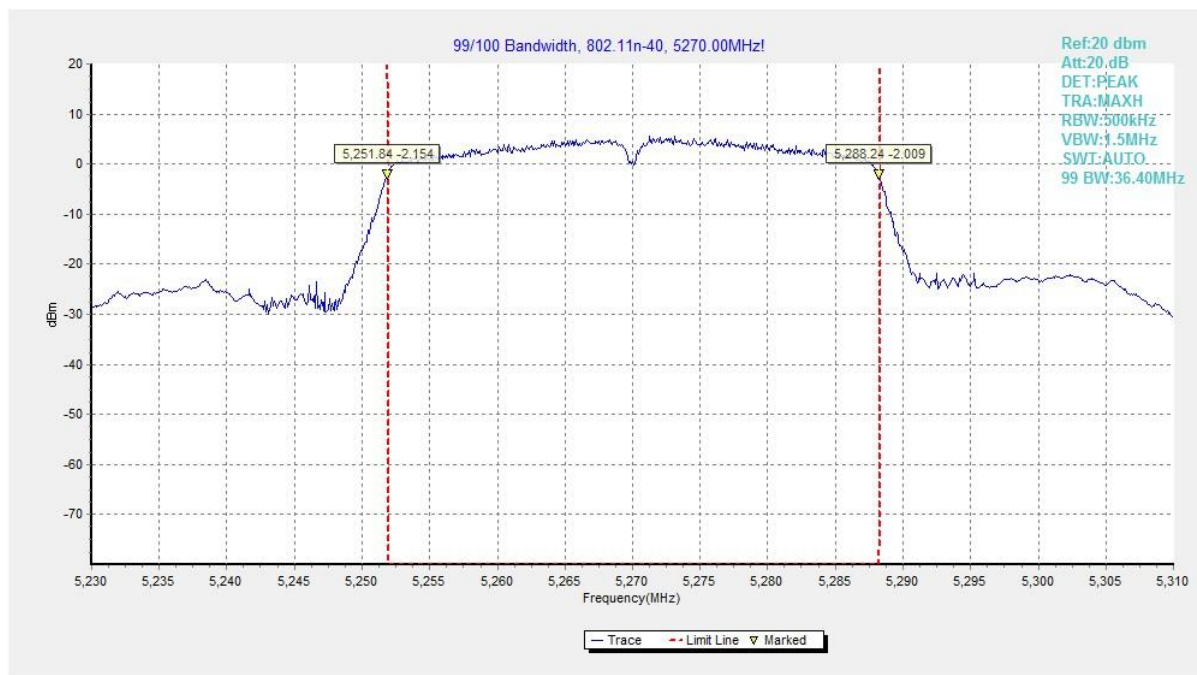


Fig. 30 99% Occupied Bandwidth (802.11n-HT40, 5270MHz)

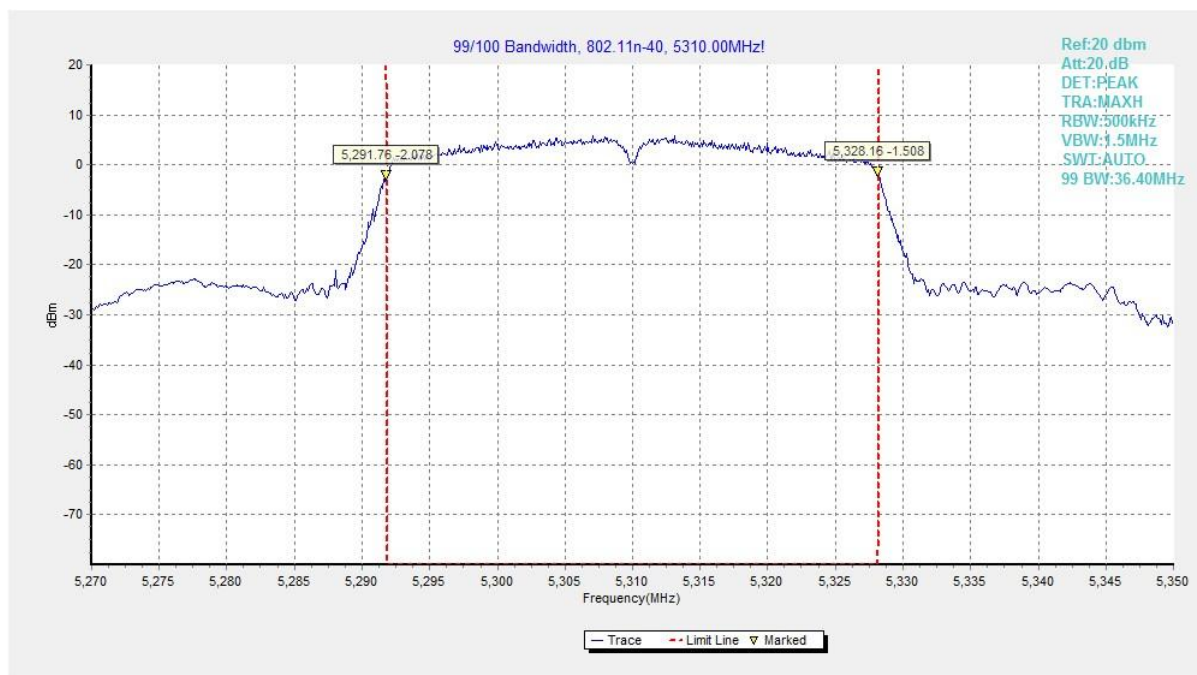


Fig. 31 99% Occupied Bandwidth (802.11n-HT40, 5310MHz)

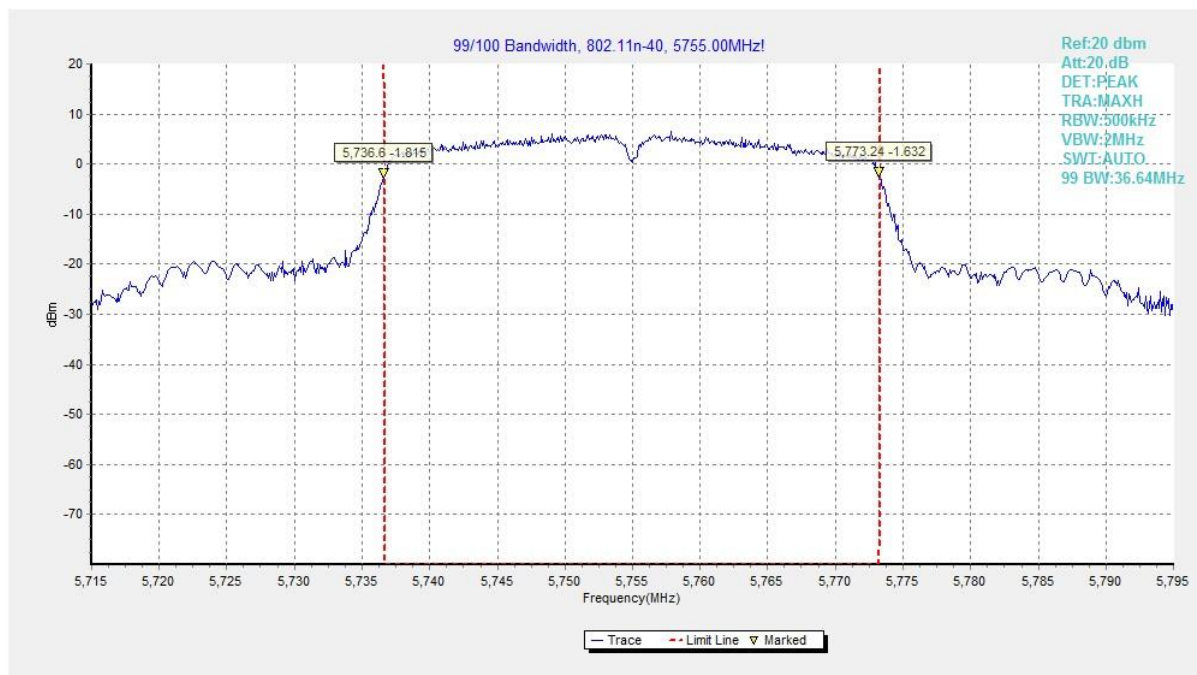


Fig. 32 99% Occupied Bandwidth (802.11n-HT40, 5755MHz)



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

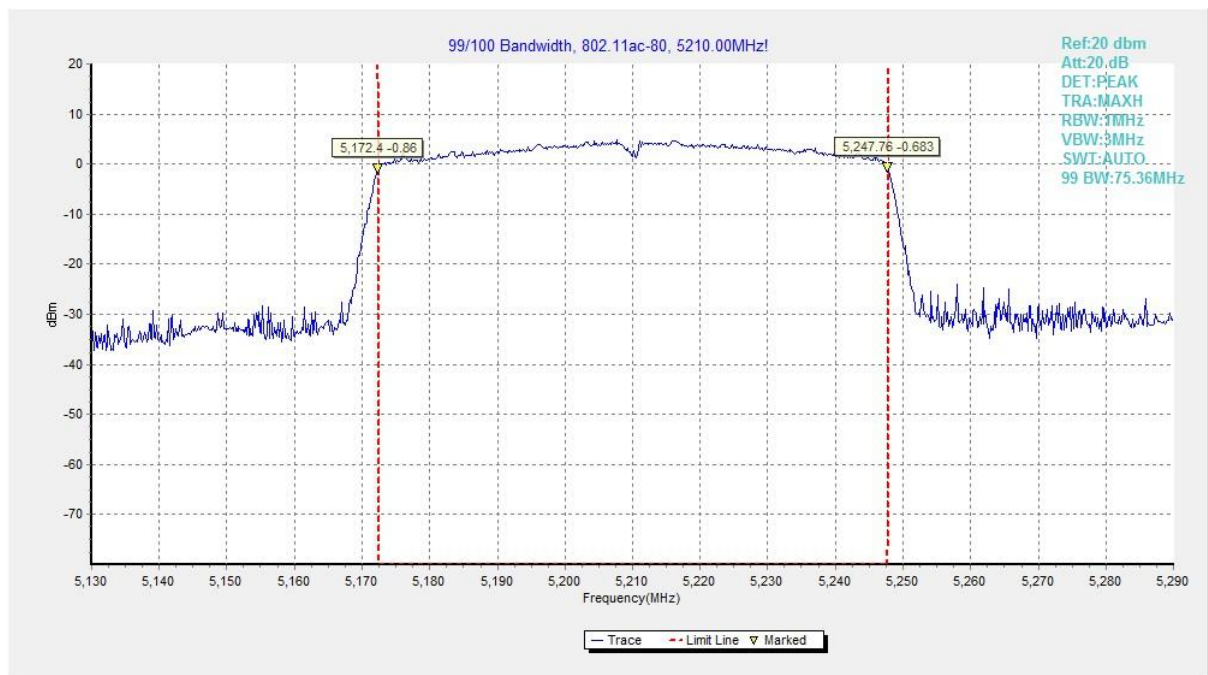


Fig. 34 99% Occupied Bandwidth (802.11ac-VHT80, 5210MHz)

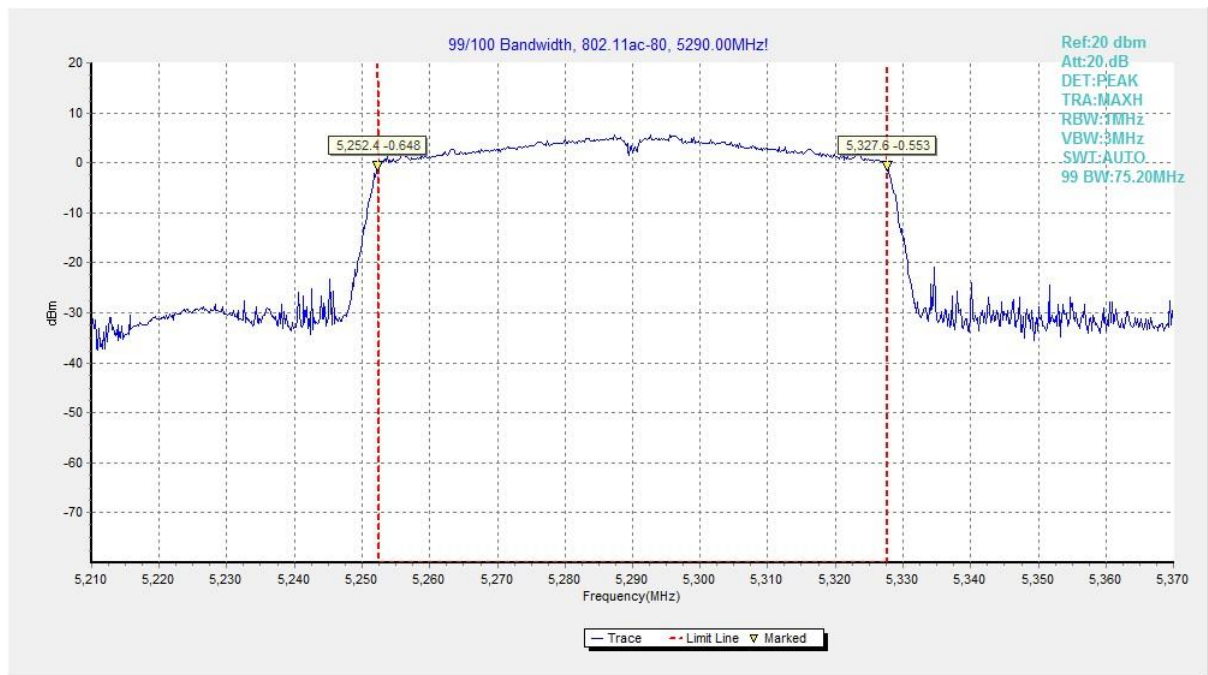


Fig. 35 99% Occupied Bandwidth (802.11ac-VHT80, 5290MHz)

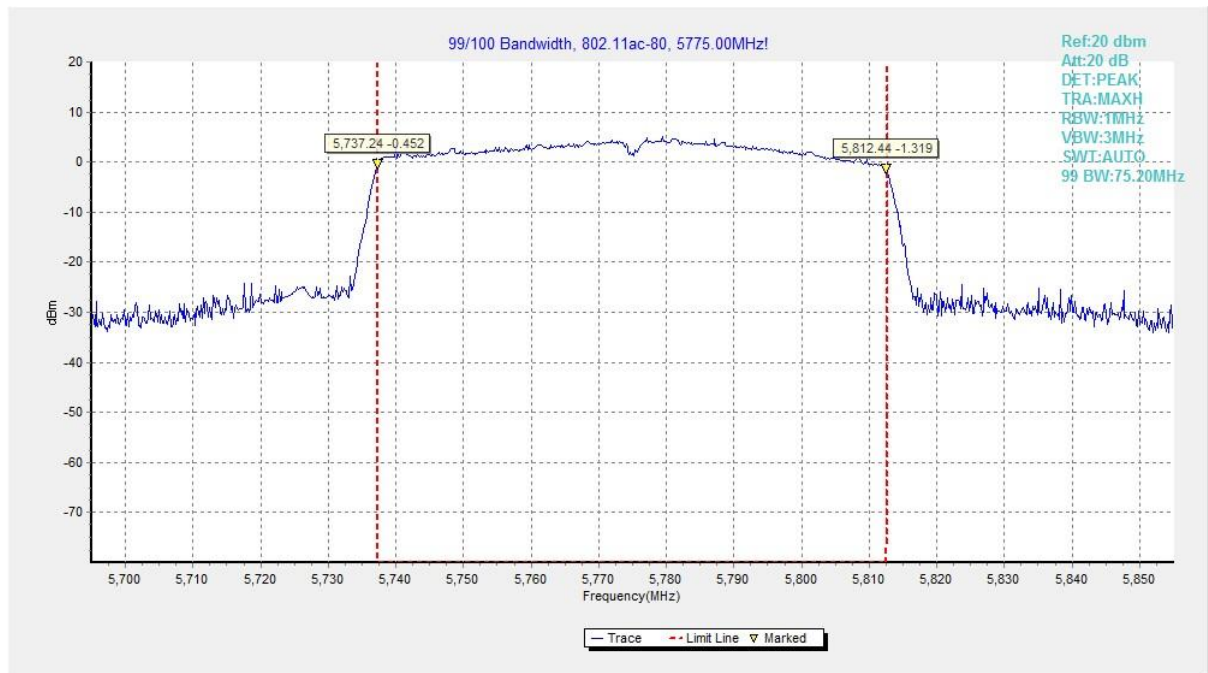


Fig. 36 99% Occupied Bandwidth (802.11ac-VHT80, 5775MHz)

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:

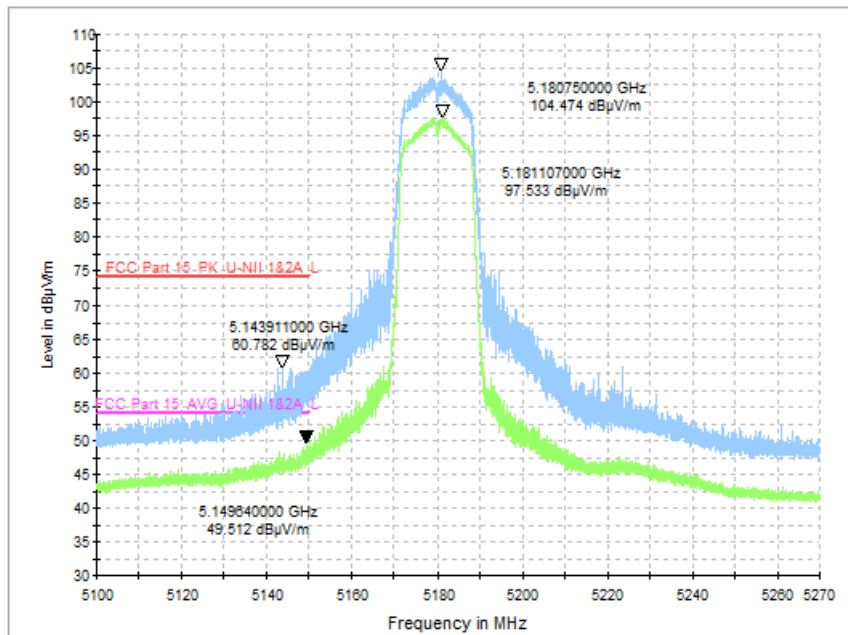


Fig. 37 Band Edges (802.11a, CH36 5180MHz)

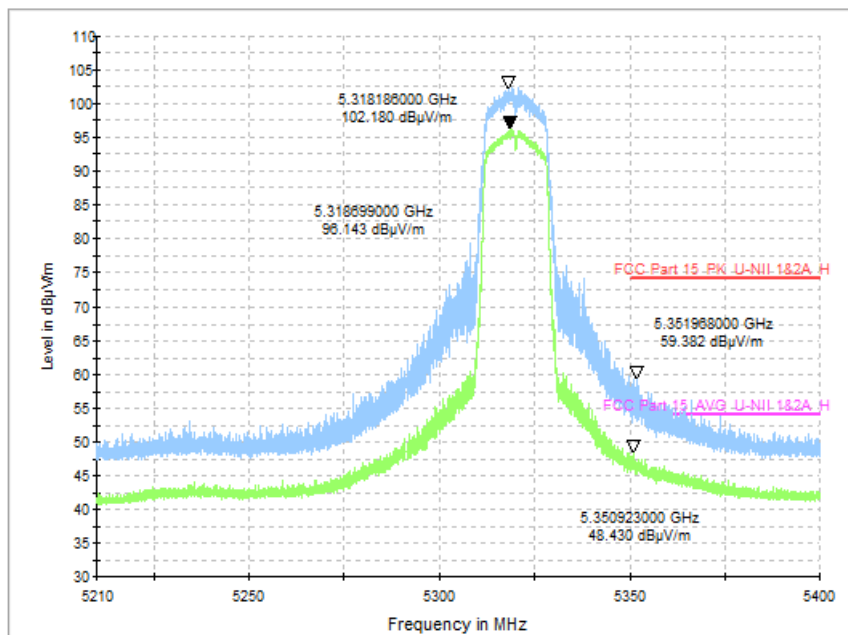


Fig. 38 Band Edges (802.11a, CH64 5320MHz)

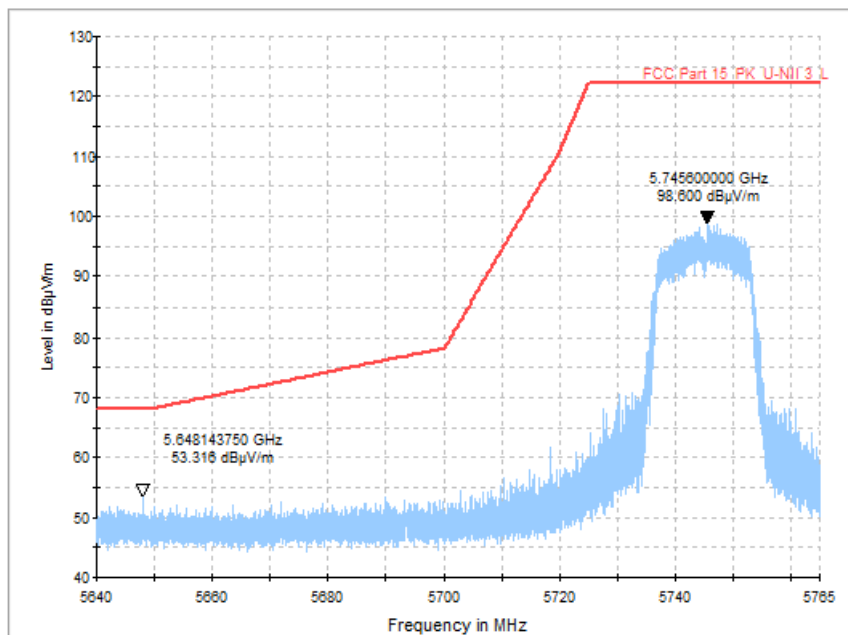


Fig. 39 Band Edges (802.11a, CH149 5745MHz)

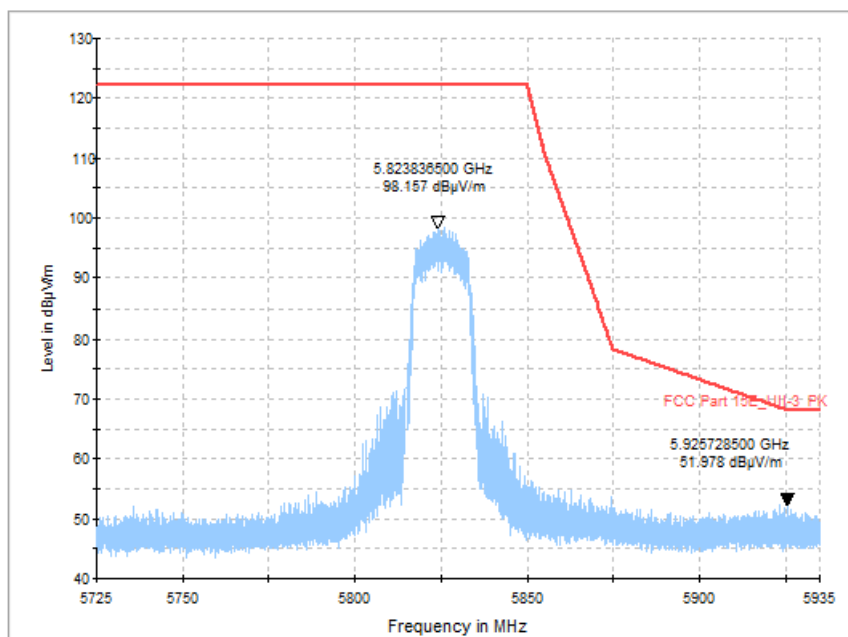


Fig. 40 Band Edges (802.11a, CH165 5825MHz)

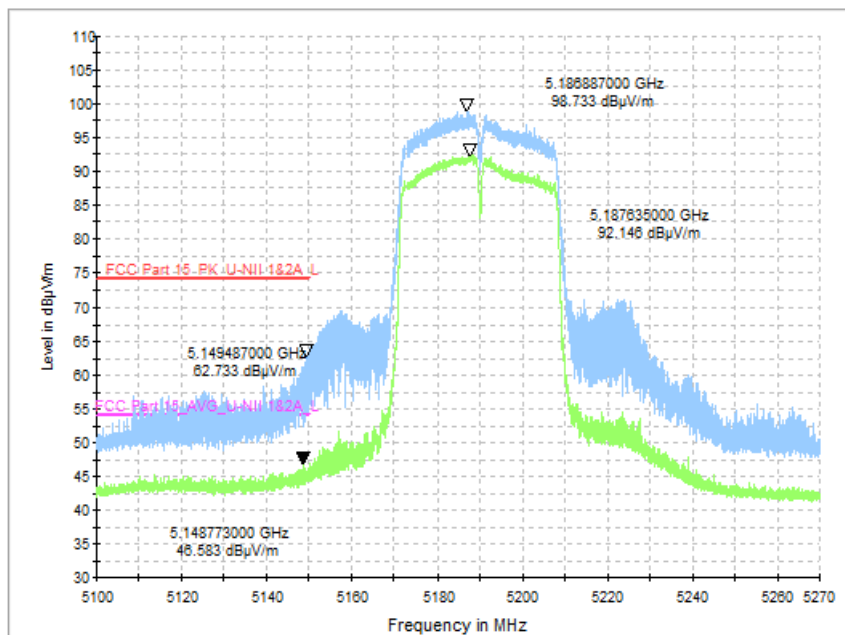


Fig. 41 Band Edges (802.11n-HT40, CH38 5190MHz)

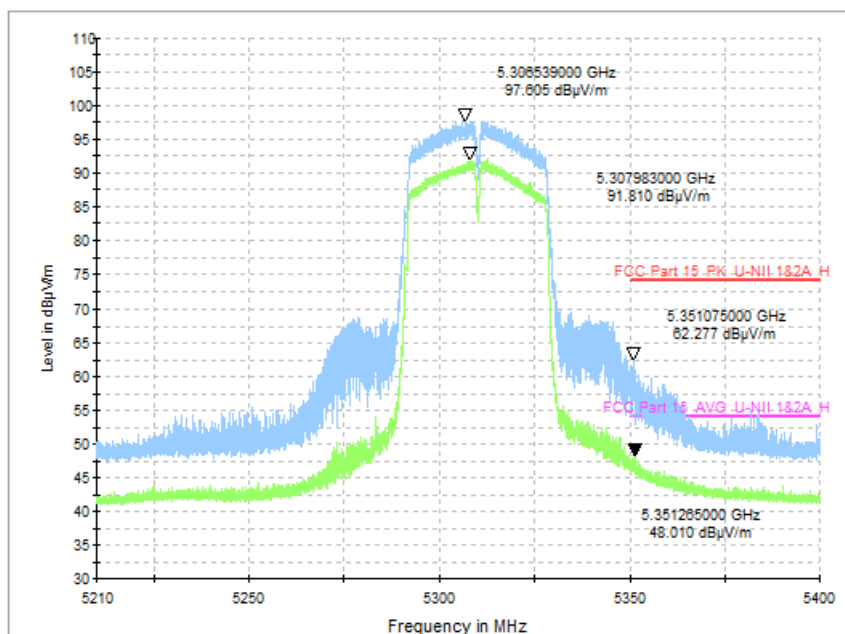


Fig. 42 Band Edges (802.11n-HT40, CH62 5310MHz)

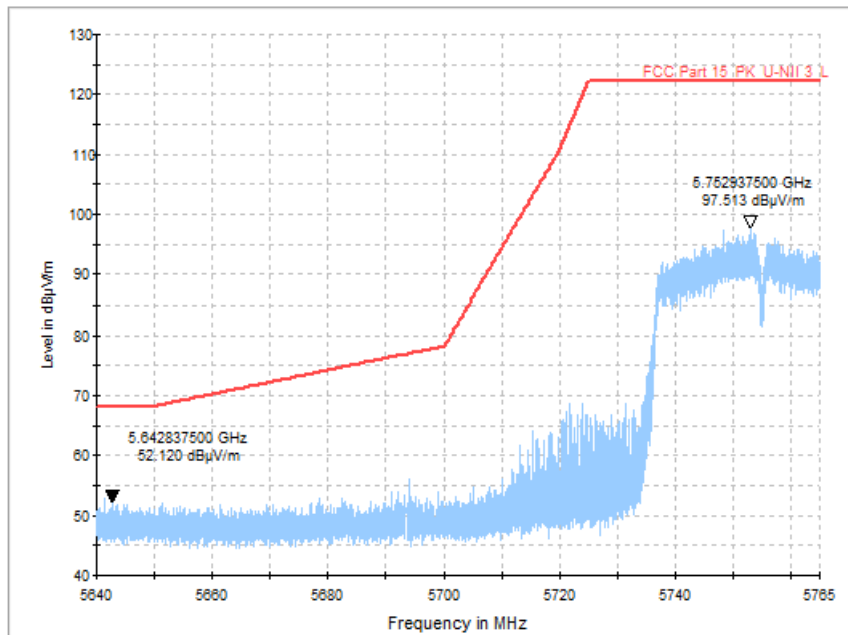


Fig. 43 Band Edges (802.11n-HT40, CH151 5755MHz)

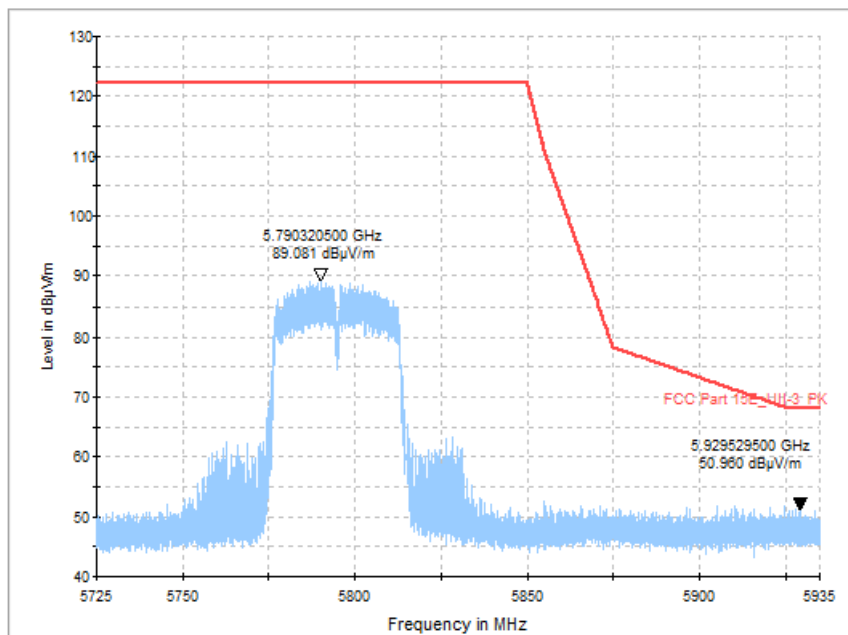


Fig. 44 Band Edges (802.11n-HT40, CH159 5795MHz)

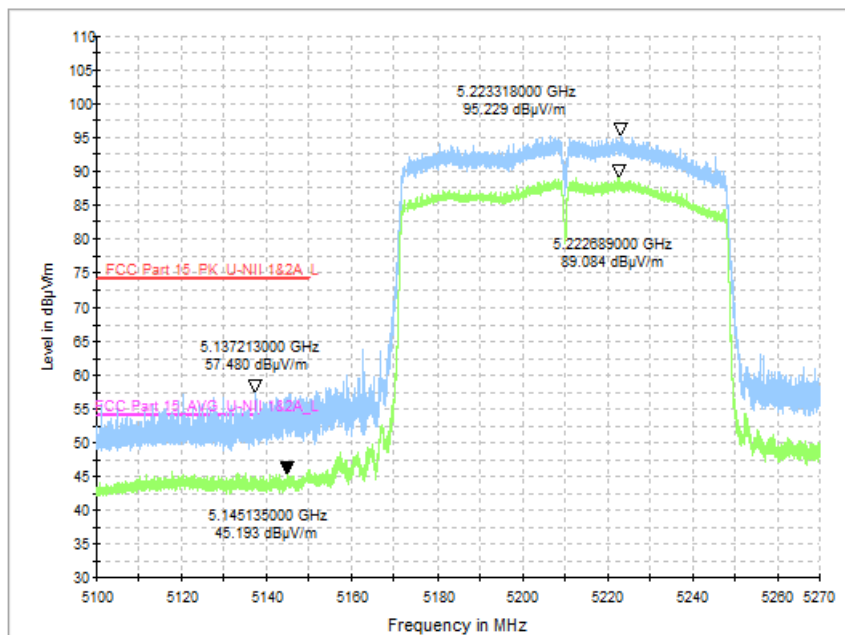


Fig. 45 Band Edges (802.11ac-VHT80, CH42 5210MHz)

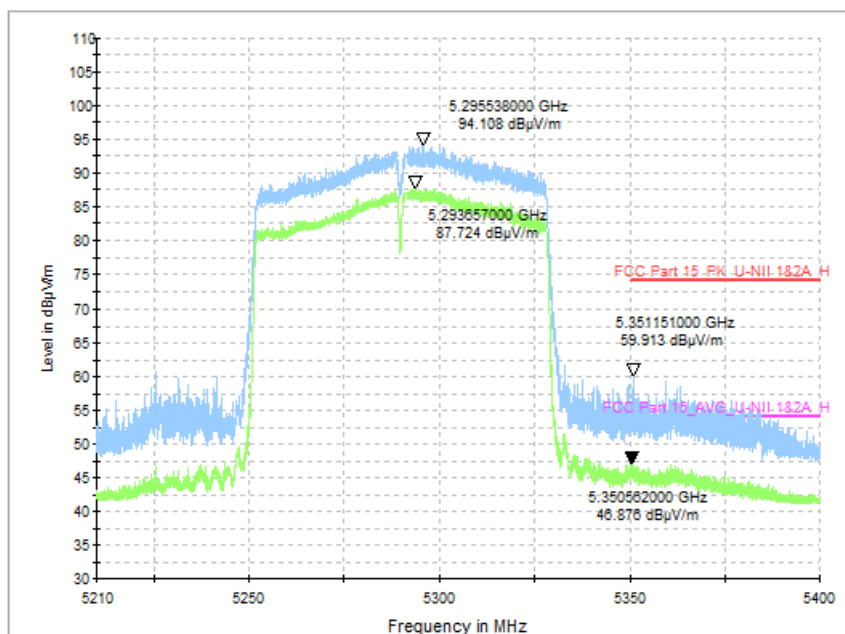


Fig. 46 Band Edges (802.11ac-VHT80, CH58 5290MHz)

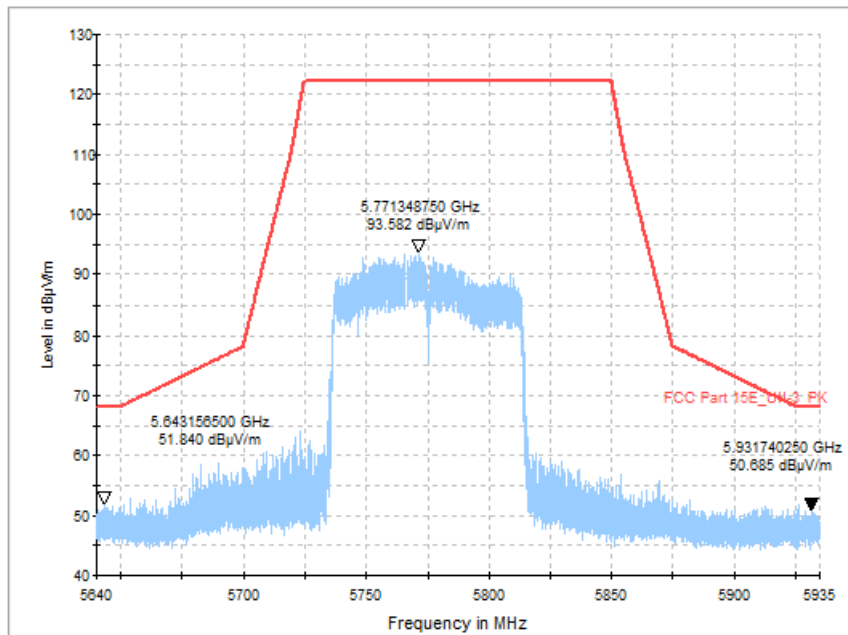


Fig. 47 Band Edges (802.11ac-VHT80, CH155 5775MHz)

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)	1 GHz ~ 18 GHz	Fig.48	P
	5200MHz (Ch40)	1 GHz ~ 18 GHz	Fig.49	P
	5240MHz (Ch48)	1 GHz ~ 18 GHz	Fig.50	P
	5260MHz (Ch52)	1 GHz ~ 18 GHz	Fig.51	P
	5280MHz (Ch56)	1 GHz ~ 18 GHz	Fig.52	P
	5320MHz (Ch64)	1 GHz ~ 18 GHz	Fig.53	P
	5745MHz (Ch149)	1 GHz ~ 18 GHz	Fig.54	P
	5785MHz (Ch157)	1 GHz ~ 18 GHz	Fig.55	P
	5825MHz (Ch165)	1 GHz ~ 18 GHz	Fig.56	P
802.11n HT40	5190MHz (Ch38)	1 GHz ~ 18 GHz	Fig.57	P
	5230MHz (Ch46)	1 GHz ~ 18 GHz	Fig.58	P
	5270MHz (Ch54)	1 GHz ~ 18 GHz	Fig.59	P
	5310MHz (Ch62)	1 GHz ~ 18 GHz	Fig.60	P
	5755MHz (Ch151)	1 GHz ~ 18 GHz	Fig.61	P
	5795MHz (Ch159)	1 GHz ~ 18 GHz	Fig.62	P
802.11ac VHT80	5210MHz (Ch42)	1 GHz ~ 18 GHz	Fig.63	P
	5290MHz (Ch58)	1 GHz ~ 18 GHz	Fig.64	P
	5775MHz (Ch155)	1 GHz ~ 18 GHz	Fig.65	P
All channels		30 MHz ~ 1 GHz	Fig.66	P
		18 GHz ~ 26.5 GHz	Fig.67	P
		26.5GHz ~ 40GHz	Fig.68	P

Conclusion: PASS

Test graphs as below:

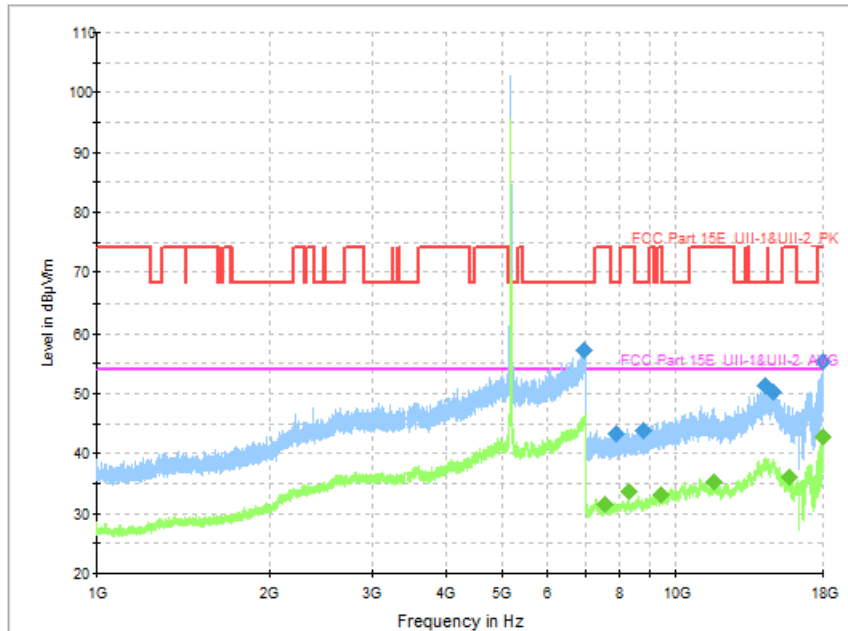


Fig. 48 Transmitter Spurious Emission (802.11a, CH36 5180MHz)

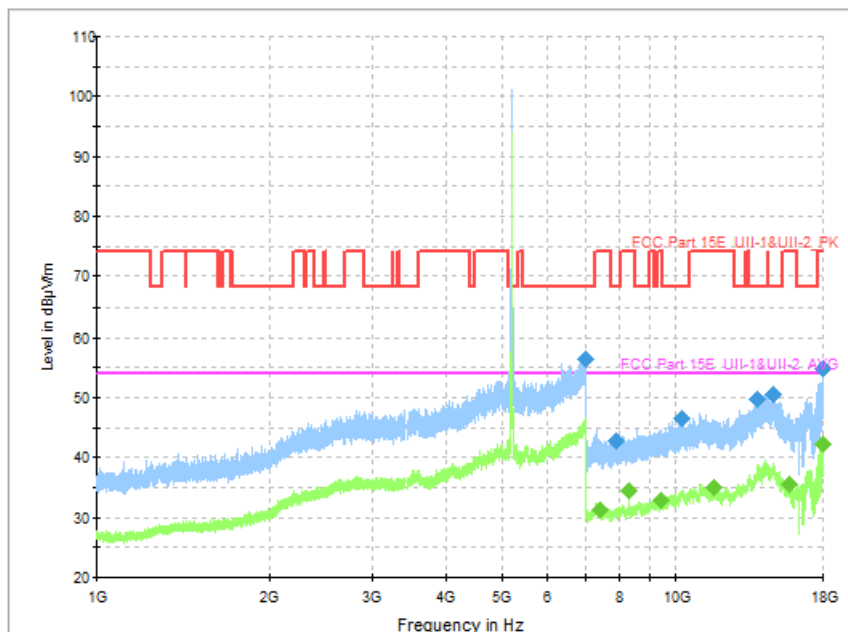


Fig. 49 Transmitter Spurious Emission (802.11a, CH40 5200MHz)

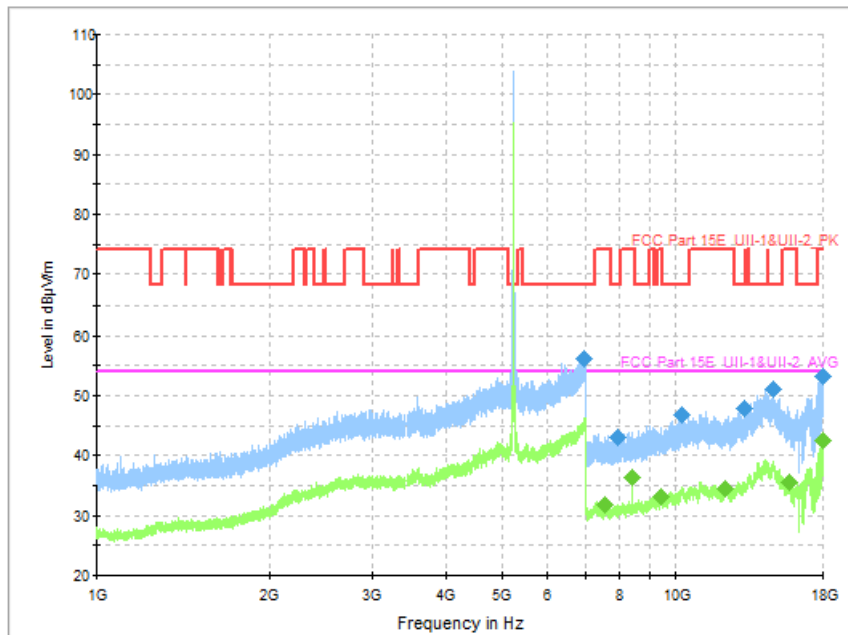


Fig. 50 Transmitter Spurious Emission (802.11a, CH48 5240MHz)

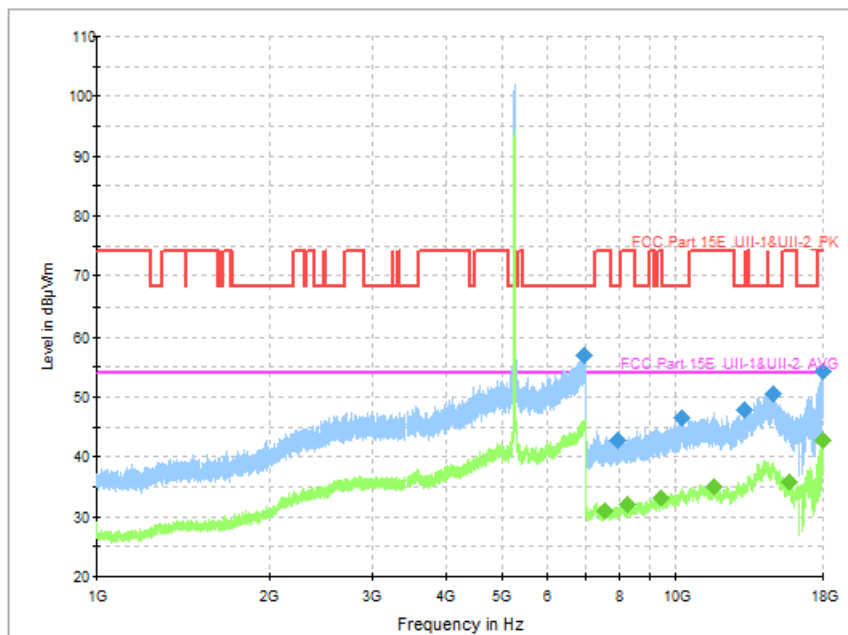


Fig. 51 Transmitter Spurious Emission (802.11a, CH52 5260MHz)

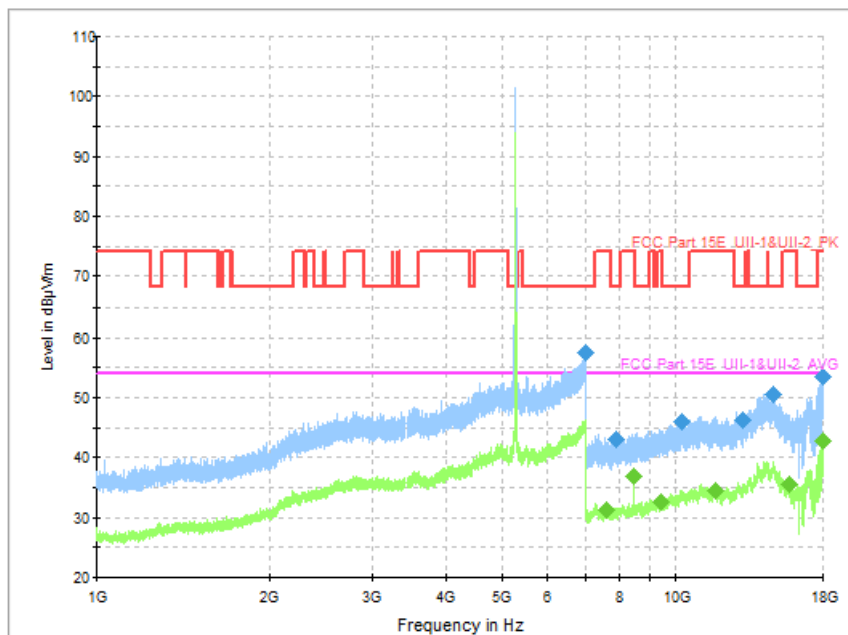


Fig. 52 Transmitter Spurious Emission (802.11a, CH56 5280MHz)

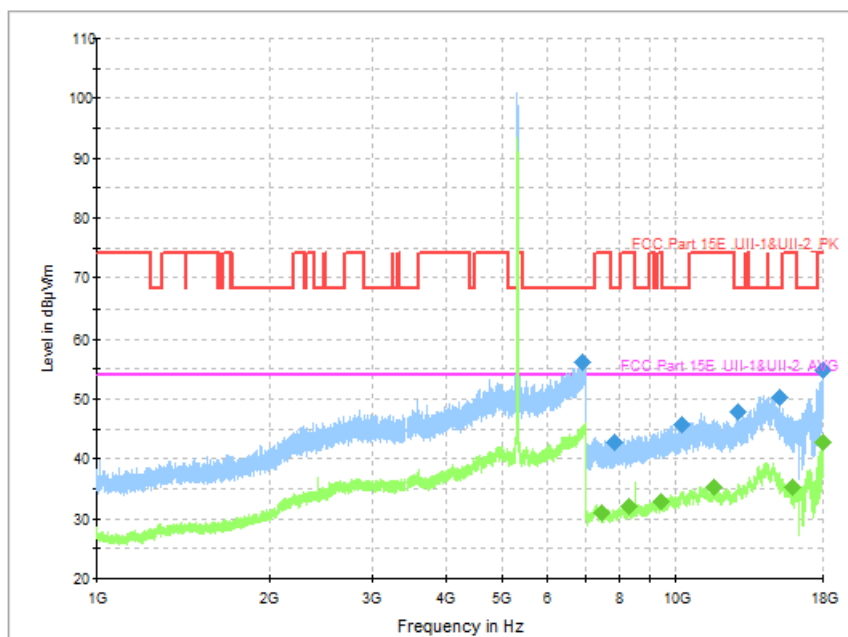


Fig. 53 Transmitter Spurious Emission (802.11a, CH64 5320MHz)

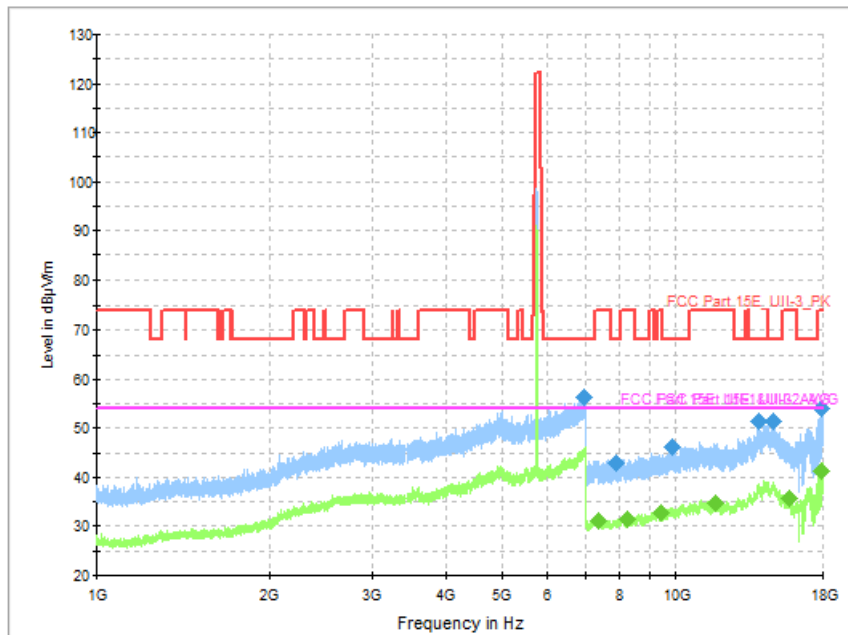


Fig. 54 Transmitter Spurious Emission (802. 11a, CH149 5745MHz)

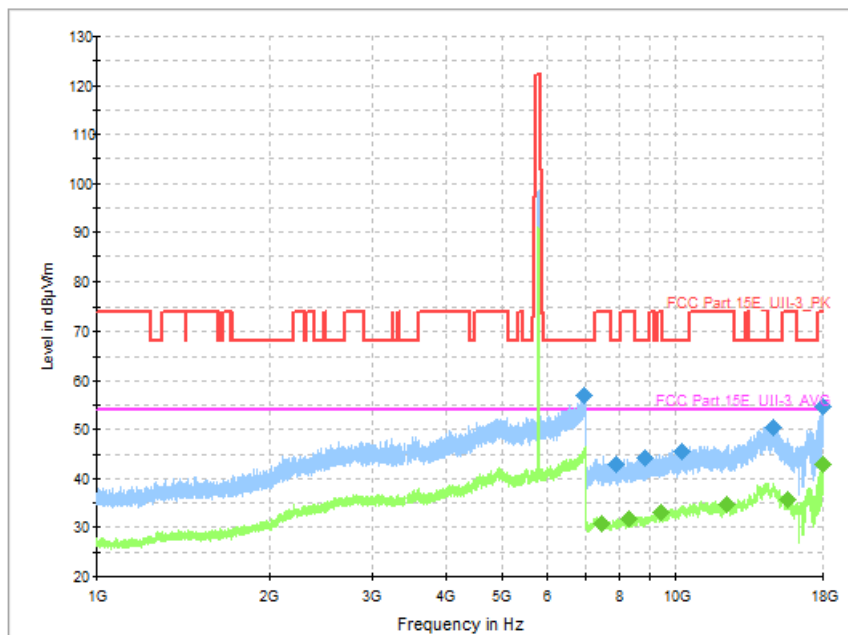


Fig. 55 Transmitter Spurious Emission (802. 11a, CH157 5785MHz)

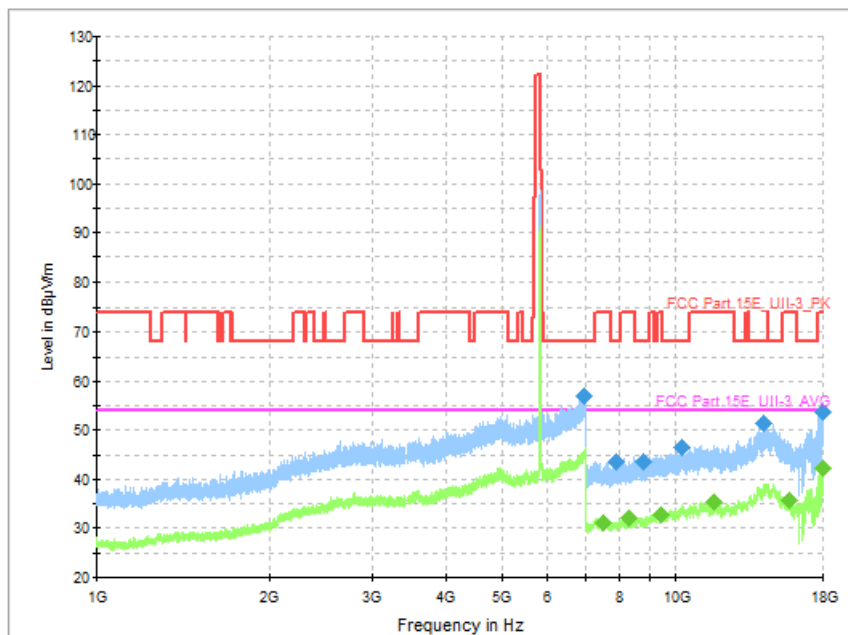


Fig. 56 Transmitter Spurious Emission (802.11a, CH165 5825MHz)

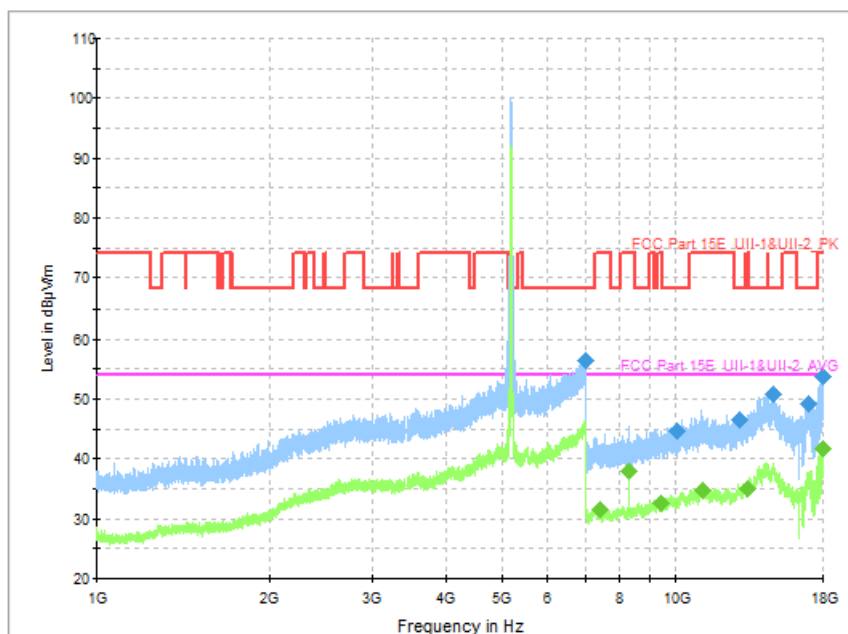


Fig. 57 Transmitter Spurious Emission (802.11n-HT40, CH38 5190MHz)

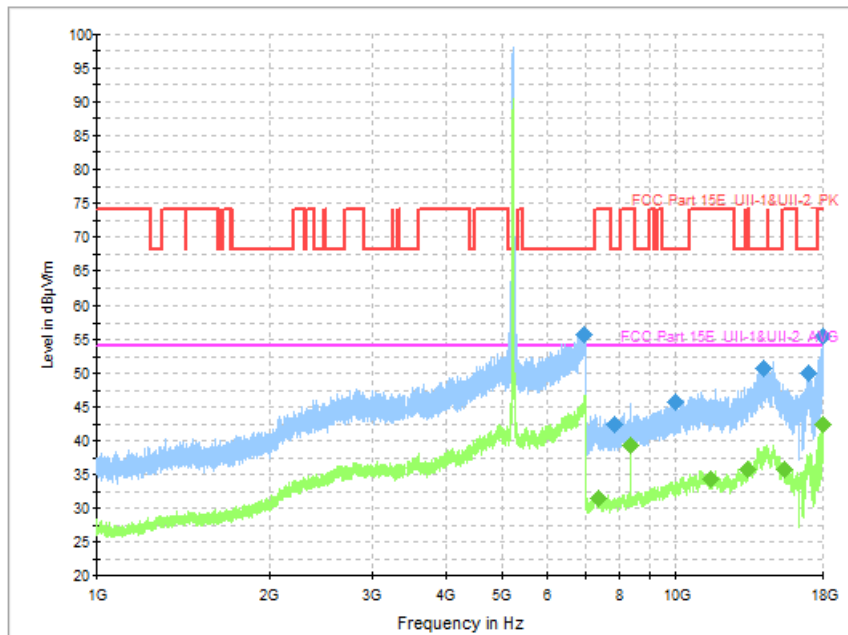


Fig. 58 Transmitter Spurious Emission (802.11n-HT40, CH46 5230MHz)

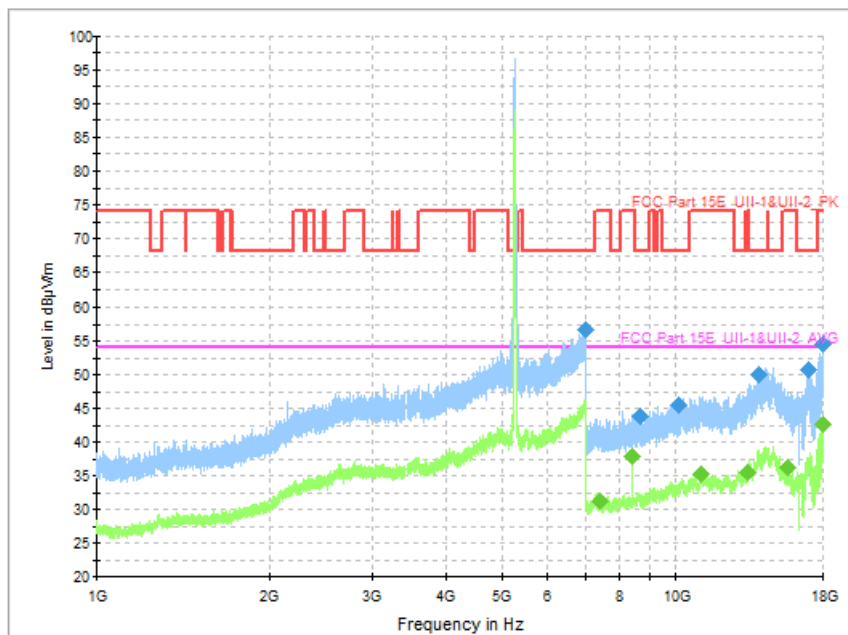


Fig. 59 Transmitter Spurious Emission (802.11n-HT40, CH54 5270MHz)

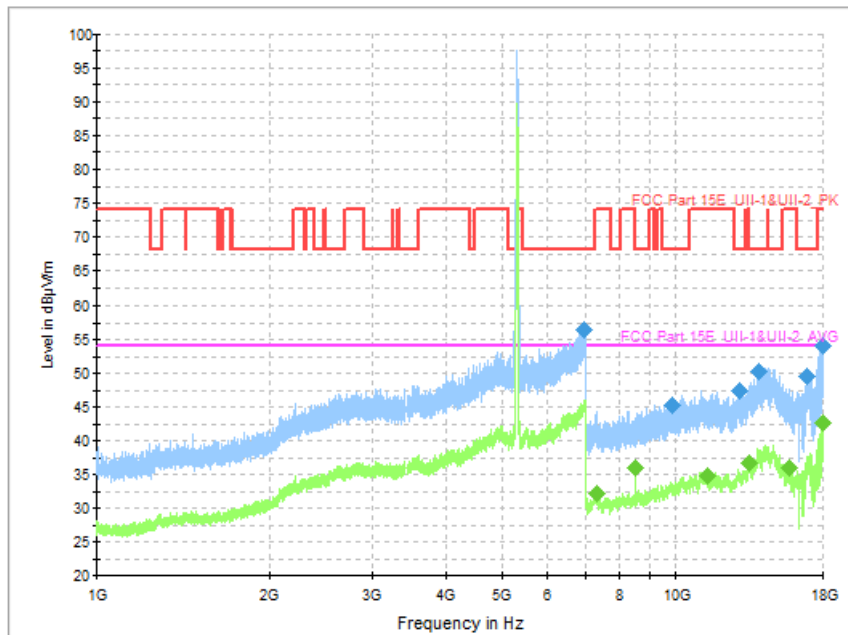


Fig. 60 Transmitter Spurious Emission (802.11n-HT40, CH62 5310MHz)

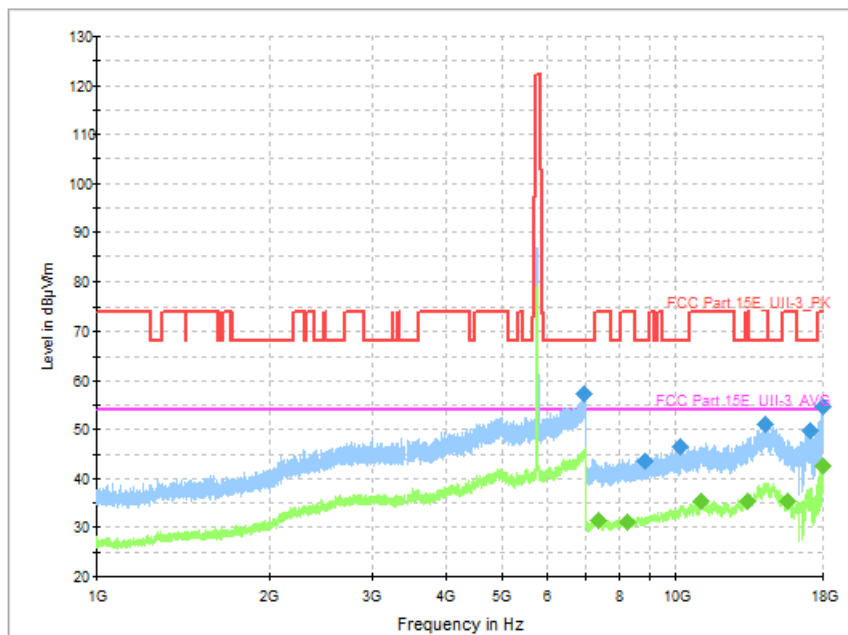


Fig. 61 Transmitter Spurious Emission (802. 11n-HT40, CH151 5755MHz)

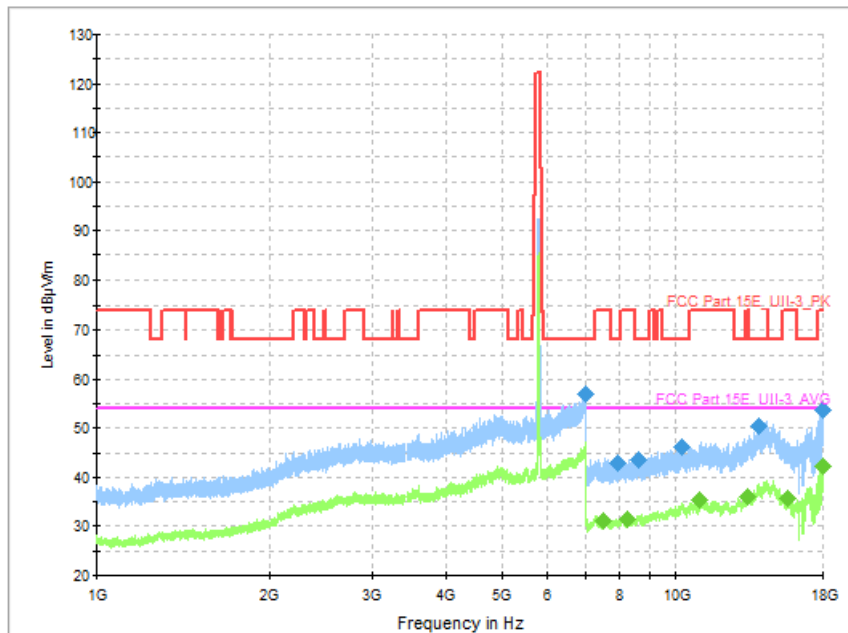


Fig. 62 Transmitter Spurious Emission (802. 11n-HT40, CH159 5795MHz)

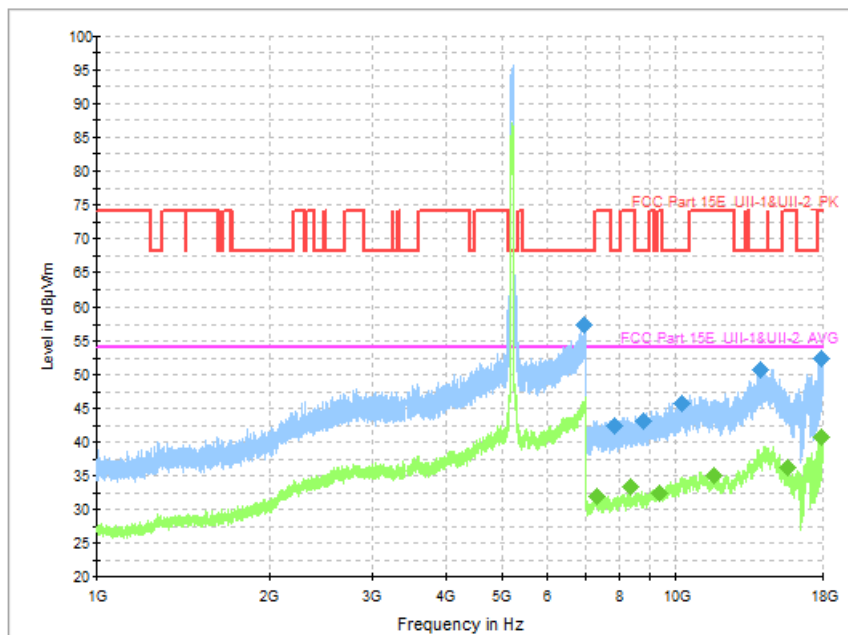


Fig. 63 Transmitter Spurious Emission (802. 11ac-VHT80, CH42 5210MHz)

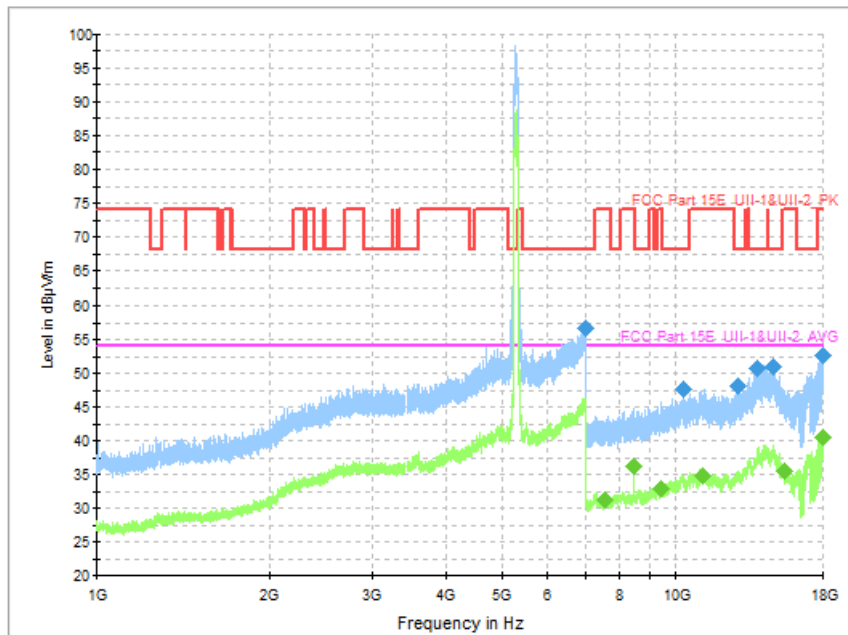


Fig. 64 Transmitter Spurious Emission (802. 11ac-VHT80, CH58 5290MHz)

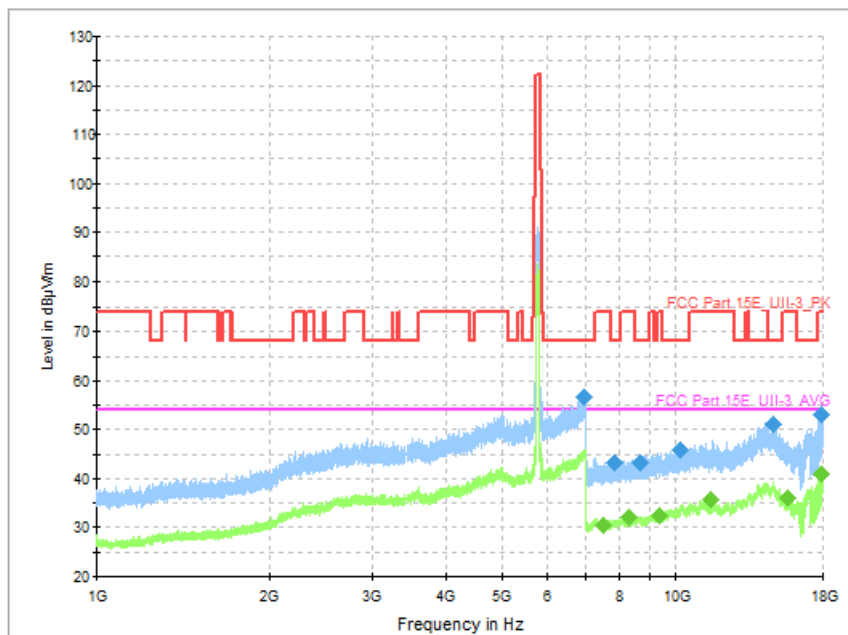


Fig. 65 Transmitter Spurious Emission (802. 11ac-VHT80, CH155 5775MHz)

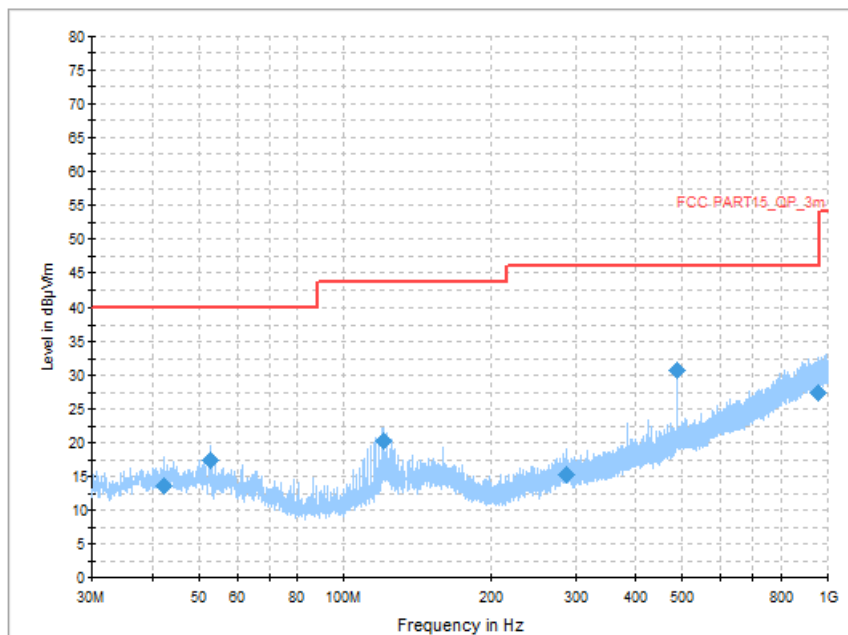


Fig. 66 Transmitter Spurious Emission (All channel, 30MHz~1GHz)

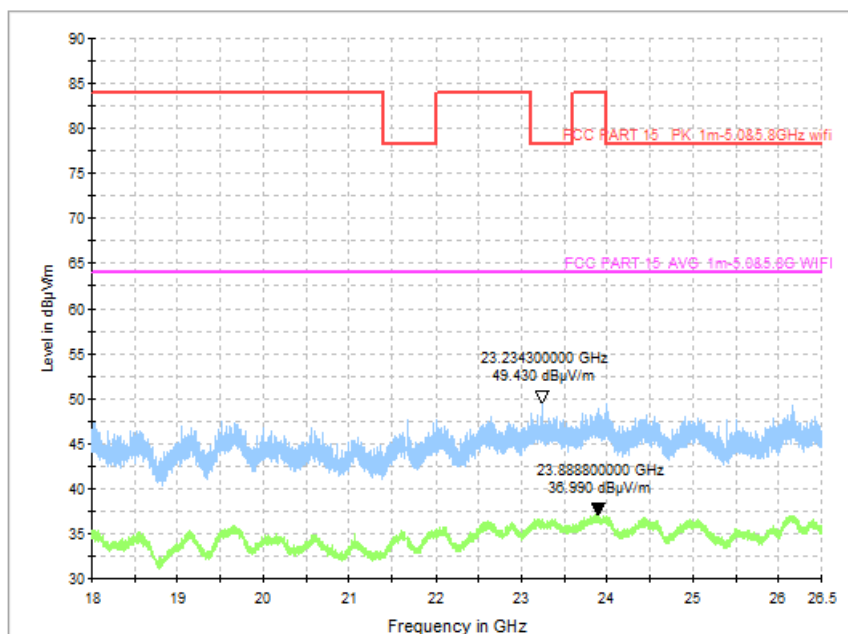


Fig. 67 Transmitter Spurious Emission (All channel, 18GHz~26.5GHz)

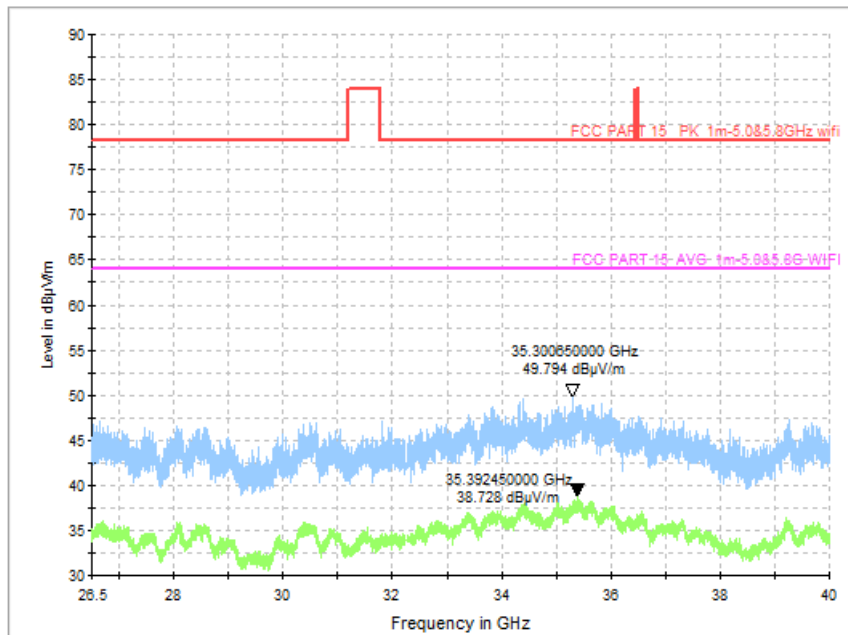


Fig. 68 Transmitter Spurious Emission (All channel, 26.5GHz~40GHz)

Worst Case Result
802.11a CH48

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6954.400000	56.15	68.20	12.05	H	20.90
7922.500000	43.04	68.20	25.16	V	-1.96
10282.000000	46.80	68.20	21.40	H	0.38
13116.700000	47.76	68.20	20.44	V	2.94
14802.100000	51.06	68.20	17.14	H	5.65
17996.400000	53.25	74.00	20.75	V	12.99

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7543.000000	31.66	54.00	22.34	V	-2.18
8383.900000	36.24	54.00	17.76	V	-2.24
9430.300000	33.09	54.00	20.91	V	-1.01
12213.400000	34.35	54.00	19.65	H	1.35
15732.100000	35.63	54.00	18.37	V	3.12
17996.400000	42.59	54.00	11.41	V	12.99

802.11a CH52

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6958.300000	56.88	68.20	11.32	H	20.96
7922.500000	42.77	68.20	25.43	V	-1.96
10227.700000	46.51	68.20	21.69	V	0.47
13154.800000	47.76	68.20	20.44	H	3.11
14745.400000	50.42	68.20	17.78	H	5.62
17998.400000	54.36	74.00	19.64	H	12.96

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7522.000000	31.10	54.00	22.90	V	-2.26
8252.200000	32.11	54.00	21.89	V	-2.23
9435.100000	33.21	54.00	20.79	V	-1.00
11688.400000	34.87	54.00	19.13	H	1.47
15736.000000	35.87	54.00	18.13	H	3.14
17998.400000	42.71	54.00	11.29	H	12.96

802.11a CH165

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6941.200000	56.85	68.20	11.35	V	20.80
7883.800000	43.45	68.20	24.75	H	-2.07
8814.400000	43.63	68.20	24.57	V	-1.63
10239.400000	46.51	68.20	21.69	H	0.65
14216.500000	51.29	68.20	16.91	H	5.85
17998.400000	53.71	74.00	20.29	H	12.96

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7493.200000	30.97	54.00	23.03	V	-2.33
8293.900000	31.99	54.00	22.01	V	-2.09
9433.300000	32.76	54.00	21.24	V	-1.00
11645.200000	35.30	54.00	18.70	V	1.32
15740.500000	35.77	54.00	18.23	H	3.17
17998.400000	42.42	54.00	11.58	H	12.96

802.11n HT40 CH46

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6943.600000	55.79	68.20	12.41	V	20.81
7861.600000	42.36	68.20	25.84	H	-2.32
10006.600000	45.74	68.20	22.46	H	-0.47
14236.600000	50.60	68.20	17.60	V	5.80
17020.400000	49.99	68.20	18.21	V	5.56
17998.800000	55.37	74.00	18.63	V	12.95

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7366.300000	31.37	54.00	22.63	H	-2.08
8368.000000	39.24	54.00	14.76	V	-2.26
11506.600000	34.40	54.00	19.60	V	1.22
13337.200000	35.63	54.00	18.37	V	3.24
15464.500000	35.79	54.00	18.21	V	3.84
17998.800000	42.46	54.00	11.54	V	12.95

802.11n HT40 CH54

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6970.600000	56.63	68.20	11.57	V	21.04
8668.000000	43.90	68.20	24.30	H	-1.76
10149.400000	45.38	68.20	22.82	V	-0.20
13893.400000	49.95	68.20	18.25	H	4.99
17012.000000	50.80	68.20	17.40	V	5.59
17998.400000	54.51	74.00	19.49	H	12.96

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7405.600000	31.19	54.00	22.81	V	-2.11
8431.900000	37.83	54.00	16.17	V	-2.28
11070.700000	35.17	54.00	18.83	V	1.57
13355.500000	35.58	54.00	18.42	V	3.39
15602.200000	36.17	54.00	17.83	H	3.56
17998.400000	42.65	54.00	11.35	H	12.96

802.11n HT40 CH159

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6997.000000	56.93	68.20	11.27	H	21.06
7928.200000	43.02	68.20	25.18	H	-1.97
8653.000000	43.69	68.20	24.51	V	-1.76
10222.900000	46.13	68.20	22.07	H	0.40
13904.800000	50.47	68.20	17.73	V	5.04
17998.400000	53.82	74.00	20.18	V	12.96

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7490.800000	31.02	54.00	22.98	H	-2.33
8254.900000	31.39	54.00	22.61	H	-2.22
11035.900000	35.36	54.00	18.64	H	1.71
13347.100000	36.02	54.00	17.98	V	3.33
15595.300000	35.80	54.00	18.20	H	3.50
17998.400000	42.34	54.00	11.66	V	12.96

802.11ac VHT80 CH42

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6957.100000	57.40	68.20	10.80	H	20.94
7846.000000	42.27	68.20	25.93	V	-2.44
8790.700000	43.09	68.20	25.11	V	-1.61
10241.800000	45.72	68.20	22.48	H	0.68
13988.200000	50.79	68.20	17.41	V	4.87
17925.600000	52.48	74.00	21.52	H	12.97

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7295.200000	32.01	54.00	21.99	H	-1.55
8335.900000	33.39	54.00	20.61	H	-2.21
9381.700000	32.41	54.00	21.59	H	-1.19
11646.400000	35.08	54.00	18.92	H	1.32
15602.500000	36.13	54.00	17.87	H	3.55
17925.600000	40.61	54.00	13.39	H	12.97

802.11ac VHT80 CH58

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6966.100000	56.76	68.20	11.44	H	21.01
10312.000000	47.53	68.20	20.67	H	0.13
12840.400000	48.01	68.20	20.19	V	2.23
13876.600000	50.82	68.20	17.38	H	4.79
14756.800000	51.01	68.20	17.19	H	5.68
17991.200000	52.63	74.00	21.37	H	13.06

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7535.500000	31.28	54.00	22.72	V	-2.21
8464.000000	36.09	54.00	17.91	V	-2.17
9429.700000	32.92	54.00	21.08	V	-1.01
11167.300000	34.88	54.00	19.12	H	1.38
15390.700000	35.58	54.00	18.42	H	3.28
17991.200000	40.38	54.00	13.62	H	13.06

802.11ac VHT80 CH155

Frequency (MHz)	Max Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
6961.300000	56.54	68.20	11.66	H	20.99
7835.500000	43.17	68.20	25.03	H	-2.42
8701.300000	43.18	68.20	25.02	V	-1.75
10214.800000	45.77	68.20	22.43	H	0.28
14746.000000	51.21	68.20	16.99	H	5.63
17875.200000	53.20	74.00	20.80	V	11.67

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	Corr. (dB)
7492.300000	30.52	54.00	23.48	H	-2.33
8291.500000	32.11	54.00	21.89	H	-2.09
9379.600000	32.52	54.00	21.48	H	-1.20
11536.300000	35.81	54.00	18.19	H	1.33
15597.700000	36.18	54.00	17.82	H	3.55
17875.200000	40.82	54.00	13.18	V	11.67

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.69	P

Conclusion: PASS

Test graphs as below:

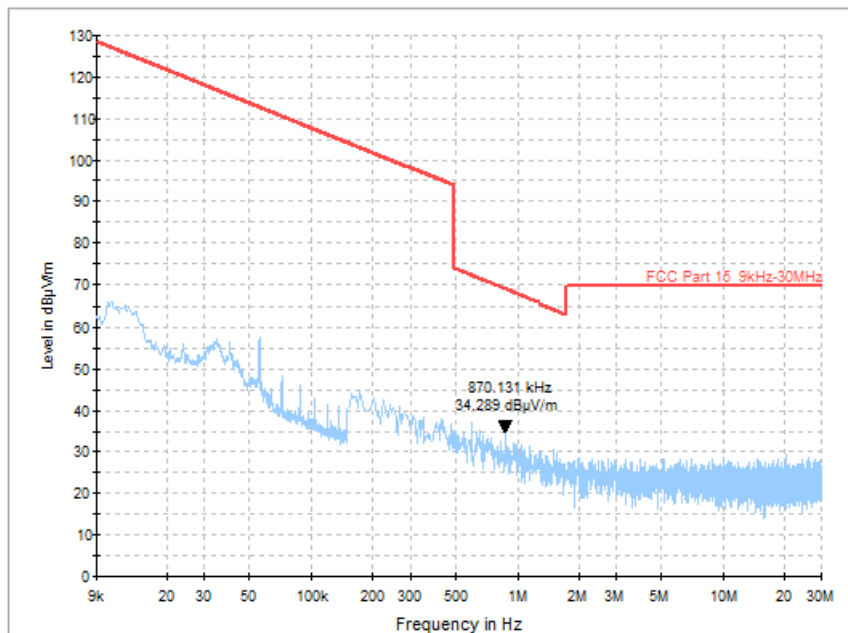


Fig. 69 Radiated Spurious Emission (All Channel, 9 kHz ~ 30 MHz)

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.70	Fig.71	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.70	Fig.71	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:

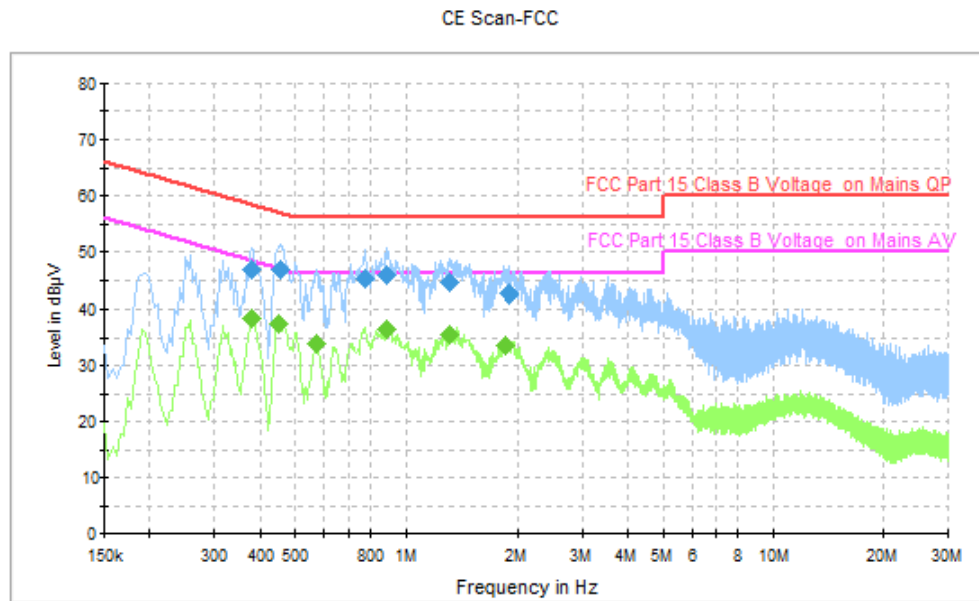


Fig. 70 AC Power line Conducted Emission (Traffic)

Measurement Results: Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.378000	46.9	GND	L1	9.8	11.5	58.3
0.454000	46.8	GND	L1	9.8	10.1	56.8
0.774000	45.3	GND	L1	9.8	10.7	56.0
0.886000	45.7	GND	L1	9.8	10.3	56.0
1.318000	44.4	GND	L1	9.8	11.6	56.0
1.890000	42.6	GND	L1	9.8	13.4	56.0

Measurement Results: Average

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.378000	38.3	GND	L1	9.8	10.0	48.3
0.450000	37.6	GND	L1	9.8	9.3	46.9
0.570000	33.8	GND	L1	9.8	12.2	46.0
0.886000	36.6	GND	L1	9.8	9.4	46.0
1.318000	35.6	GND	L1	9.8	10.4	46.0
1.842000	33.6	GND	L1	9.8	12.4	46.0

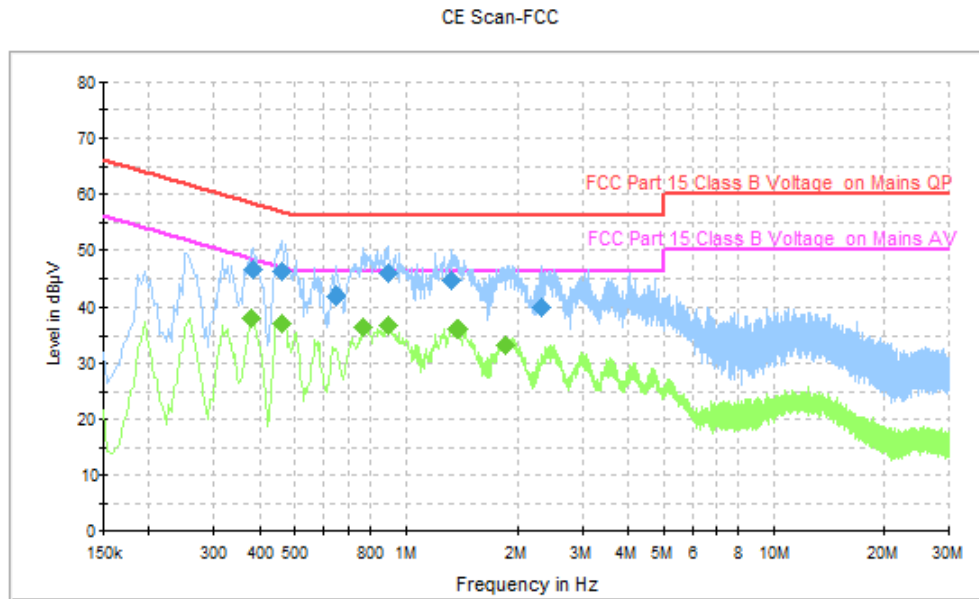


Fig. 71 AC Power line Conducted Emission (Idle)

Measurement Results: Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.386000	46.5	GND	L1	9.8	11.6	58.1
0.462000	46.1	GND	L1	9.8	10.6	56.7
0.646000	41.9	GND	L1	9.8	14.1	56.0
0.894000	45.8	GND	L1	9.8	10.2	56.0
1.334000	44.6	GND	L1	9.8	11.4	56.0
2.334000	40.1	GND	L1	9.8	15.9	56.0

Measurement Results: Average

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.378000	38.1	GND	L1	9.8	10.2	48.3
0.458000	37.2	GND	L1	9.8	9.5	46.7
0.770000	36.5	GND	L1	9.8	9.5	46.0
0.894000	36.7	GND	L1	9.8	9.3	46.0
1.386000	36.1	GND	L1	9.8	9.9	46.0
1.858000	33.3	GND	L1	9.8	12.7	46.0



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).

**ANNEX B: Spot Check of Output Power****Company Name:** TCL Communication Ltd.**Product Name:** Tablet PC**Model Name:** 9132G, 9132X**Spot Check of Different Mode**

Model	Mode	Frequency (MHz)	Conducted Power (dBm)
9132G	LE 1M	2440 (CH19)	-0.53
	BR (GFSK)	2441 (CH39)	5.58
	802.11b	2437 (CH6)	16.44
	802.11a	5260 (Ch52)	15.89
		5825 (CH165)	15.51
9132X	LE 1M	2440 (CH19)	-0.64
	BR (GFSK)	2441 (CH39)	5.51
	802.11b	2437 (CH6)	16.39
	802.11a	5260 (Ch52)	15.82
		5825 (CH165)	15.45

Note: Spot check test data included for the variants based on worst-case results reported in the original FCC ID filing. From the above data, it can be concluded that the conducted output power of the variant is less than or near to the original. And the variant test data can refer to the original report. This condition applies to the reports I22N00113.

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