



FCC PART 15 TEST REPORT No.I21Z60772-IOT04

for

Shenzhen Tinno Mobile Technology Corp.

Smart Phone

U319AA

With

FCC ID: XD6U319AA

Hardware Version: V1.0

Software Version: U319AAV01.02.10

Issued Date: 2021-06-21

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn



REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z60772-IOT04	Rev.0	1st edition	2021-06-11
I21Z60772-IOT04	Rev.1	Update the reference documents on page 9.	2021-06-21

CONTENTS

CONTENTS	3
1. TEST LATORATORY.....	5
1.1. INTRODUCTION & ACCREDITATION	5
1.2. TESTING LOCATION	5
1.3. TESTING ENVIRONMENT.....	5
1.4. PROJECT DATE	5
1.5. SIGNATURE	6
2. CLIENT INFORMATION.....	7
2.1 APPLICANT INFORMATION	7
2.2 MANUFACTURER INFORMATION	7
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARYEQUIPMENT(AE).....	8
3.1. ABOUT EUT	8
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	8
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST.....	8
3.4. GENERAL DESCRIPTION.....	9
3.5. INTERPRETATION OF THE TEST ENVIRONMENT.....	9
4. REFERENCE DOCUMENTS	9
4.1. DOCUMENTS SUPPLIED BY APPLICANT	9
4.2. REFERENCE DOCUMENTS FOR TESTING.....	9
5. LABORATORY ENVIRONMENT.....	9
6. SUMMARY OF TEST RESULTS	10
6.1. SUMMARY OF TEST RESULTS.....	10
6.2. STATEMENTS.....	10
6.3. TEST CONDITIONS	10
7. TEST EQUIPMENTS UTILIZED	11
8. MEASUREMENT UNCERTAINTY	12
8.1 TRANSMITTER OUTPUT POWER.....	12
8.2 PEAK POWER SPECTRAL DENSITY.....	12
8.3 OCCUPIED CHANNEL BANDWIDTH	12
8.4 BAND EDGES COMPLIANCE	12
8.5 SPURIOUS EMISSIONS	12
8.6 AC POWER-LINE CONDUCTED EMISSION	12
ANNEX A: MEASUREMENT RESULTS.....	13
A.1. MEASUREMENT METHOD	13
A.2. MAXIMUM OUTPUT POWER	14



A.3. PEAK POWER SPECTRAL DENSITY (CONDUCTED)..... 15

A.4. OCCUPIED 26DB BANDWIDTH(CONDUCTED)..... 16

A.5. BAND EDGES COMPLIANCE 31

A5.1 BAND EDGES - RADIATED..... 31

A.6. TRANSMITTER SPURIOUS EMISSION 35

A.7. AC POWERLINE CONDUCTED EMISSION (150KHZ- 30MHZ)..... 55

A.8. 99% OCCUPIED BANDWIDTH 58

A.9. POWER CONTROL 62

ANNEX B: EUT PARAMETERS..... 63

ANNEX C: ACCREDITATION CERTIFICATE 63



1. TEST LATORATORY

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Conducted testing Location: CTTL(huayuan North Road)

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

Radiated testing Location: CTTL(huayuan North Road)

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

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2021-04-25

Testing End Date: 2021-06-06

1.5. Signature

谢秀珍

Xie Xiuzhen
(Prepared this test report)



Zheng Wei
(Reviewed this test report)

胡晓宇

Hu Xiaoyu
(Approved this test report)



2. CLIENT INFORMATION

2.1 Applicant Information

Company Name: Shenzhen Tinno Mobile Technology Corp.
Address: 4/F, H-3 Building,OCT Eastern Industrial Park. NO.1 XiangShan East Road, Nan Shan District,Shenzhen, P.R.China
City: Shenzhen
Postal Code: /
Country: China
Telephone: 0755-86095550
Fax: /

2.2 Manufacturer Information

Company Name: Shenzhen Tinno Mobile Technology Corp.
Address: 4/F, H-3 Building,OCT Eastern Industrial Park. NO.1 XiangShan East Road, Nan Shan District,Shenzhen, P.R.China
City: Shenzhen
Postal Code: /
Country: China
Telephone: 0755-86095550
Fax: /

3. EQUIPMENT UNDER TEST (EUT) AND

ANCILLARY EQUIPMENT (AE)

3.1. About EUT

Description	Smart Phone
Model name	U319AA
FCC ID	XD6U319AA
WLAN Frequency Band	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Voltage	3.85V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	860999050012816	V1.0	U319AAV01.02.10
EUT2	860999050009929	V1.0	U319AAV01.02.10

*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	SN
AE1	Battery	/
AE2	Charger	/
AE3	USB Cable	/

AE1

Model	LT25H426271W
Manufacturer	Ningbo Veken Battery Company Limited
Capacity	2500 mAh
Nominal Voltage	3.85V

AE2

Model	TN-050120U8
Manufacturer	/
Length of cable	/

AE3

Model	/
Manufacturer	/
Length of cable	/

*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 Smart Phone with integrated antenna and inbuilt battery.

It has Bluetooth (EDR)function.

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

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

Samples undergoing test were selected by the client.

3.5. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor $k=2$.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

4. REFERENCE DOCUMENTS

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

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

FCC Part15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	2018
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	/	P
Peak Power Spectral Density	15.407	/	P
Occupied 26dB Bandwidth	15.403	/	P
Band edge compliance (Radiated)	15.209	/	P
Transmitter spurious emissions (Radiated)	15.407	/	P
AC Powerline Conducted Emission (150kHz- 30MHz)	15.407	/	P
Frequency Stability	15.407	/	P
99% Occupied bandwidth	/	/	P
Transmit Power Control	15.407	/	NA

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

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases requested by the client/matrix as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.85V
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2021-06-06
2	LISN	ESH3-Z5	825562/028	R&S	1 year	2021-10-15
3	Test Receiver	ESCI	100344	Rohde & Schwarz	1 year	2022-02-23
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU 26	100235	R&S	1 year	2022-02-23
2	EMI Antenna	VULB 9163	483	SCHWARZBECK	1 year	2021-08-27
3	EMI Antenna	3115	6914	ETS-Lindgren	1 year	2022-02-03

8. Measurement Uncertainty

8.1 Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2 Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3 Occupied Channel Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4 Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5 Spurious Emissions

Conducted (k=1.96)

Frequency Range	Uncertainty(dB)
$30\text{MHz} \leq f \leq 2\text{GHz}$	1.22
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	1.22
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	1.22
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	1.51
$12.75\text{GHz} \leq f \leq 26\text{GHz}$	1.51
$26\text{GHz} \leq f \leq 40\text{GHz}$	1.59

Radiated (k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.16
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.44
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.28

8.6. AC Power-line Conducted Emission

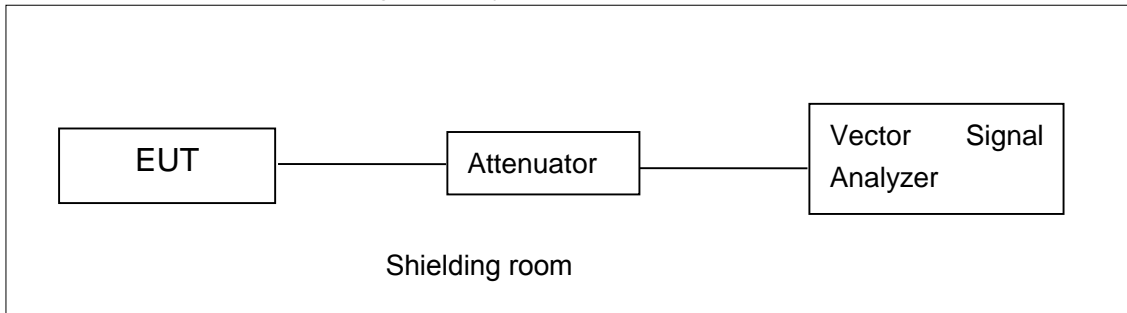
Measurement Uncertainty : 3.08,k=2

ANNEX A: MEASUREMENT RESULTS

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

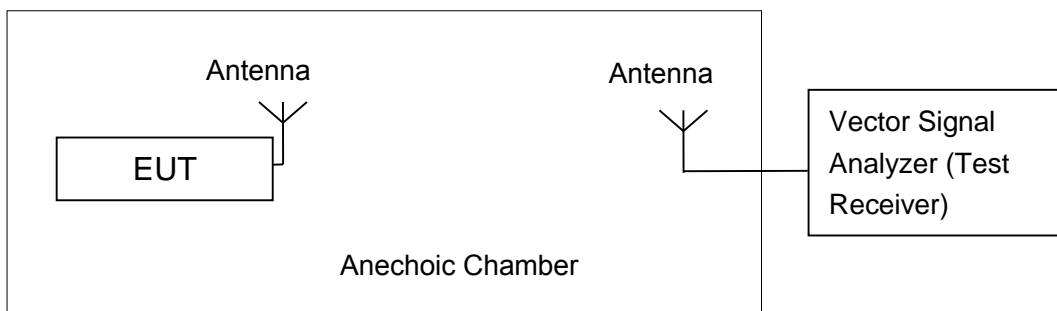


A.1.2. Radiated Emission Measurements

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 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(a)	5150MHz~5250MHz	24dBm
	5250MHz~5350MHz	24dBm or 11+10logB
	5470MHz~5725MHz	24dBm or 11+10logB

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

The measurement method SA-2 is made according to KDB 789033

Note:

For straddle channel 20MHz Bandwidth 5720MHz, Conducted Output Power Limit:

802.11a=11+10*log(B)=22.88, B=20.85/2+5=15.425MHz,

802.11n-HT20=11+10*log(B)=22.88, B=20.85/2+5=15.425MHz,

For straddle channel 40/80MHz Bandwidth, conducted output power limit=24 dBm

802.11n-HT40: B=41.04/2+15=35.52MHz,

Measurement Results:

802.11a mode

Mode	Rate	Test Result (dBm)									
		Frequency (MHz)									
		5180	5200	5240	5260	5280	5320	5500	5580	5700	5720
802.11a	6Mbps	13.54	13.65	13.78	14.01	13.79	13.72	13.76	13.73	13.52	13.45

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

802.11n-HT20 mode

Mode	Rate	Test Result (dBm)									
		Frequency (MHz)									
		5180	5200	5240	5260	5280	5320	5500	5580	5700	5720
802.11n(HT20)	MCS0	13.55	13.68	13.63	13.97	13.85	13.85	13.70	13.64	13.48	13.21

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

802.11n-HT40 mode

Mode	Rate	Test Result (dBm)							
		Frequency (MHz)							
		5190	5230	5270	5310	5510	5550	5670	5710
802.11n(HT40)	MCS0	13.18	13.39	13.36	13.35	13.36	13.51	13.56	13.82

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

A.3. Peak Power Spectral Density (conducted)

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11
	5250MHz~5350MHz	11
	5470MHz~5725MHz	11

The output power measurement method Section F is made according to KDB 789033

Measurement Results:

Mode	Frequency	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180 MHz	0.67	P
	5200 MHz	0.87	P
	5240 MHz	1.05	P
	5260 MHz	1.37	P
	5280 MHz	1.28	P
	5320 MHz	1.06	P
	5500 MHz	0.38	P
	5580 MHz	1.16	P
	5700 MHz	0.75	P
	5720 MHz	0.65	P
802.11n HT20	5180 MHz	0.43	P
	5200 MHz	0.79	P
	5240 MHz	0.97	P
	5260 MHz	1.05	P
	5280 MHz	0.95	P
	5320 MHz	0.72	P
	5500 MHz	0.26	P
	5580 MHz	0.83	P
	5700 MHz	0.40	P
	5720 MHz	0.29	P
802.11n HT40	5190 MHz	-2.36	P
	5230 MHz	-2.11	P
	5270 MHz	-1.92	P
	5310 MHz	-2.25	P
	5510 MHz	-2.71	P
	5550 MHz	-2.23	P
	5670 MHz	-2.28	P
	5710 MHz	-2.7	P

Conclusion: PASS

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 Uncertainty:

Measurement Uncertainty	60.80Hz
-------------------------	---------

Measurement Result:

Mode	Frequency	Occupied 26dB Bandwidth (MHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.1	20.60	P
	5200 MHz	Fig.2	20.55	P
	5240 MHz	Fig.3	20.75	P
	5260 MHz	Fig.4	20.55	P
	5280 MHz	Fig.5	20.55	P
	5320 MHz	Fig.6	20.6	P
	5500 MHz	Fig.7	20.55	P
	5580 MHz	Fig.8	20.65	P
	5700 MHz	Fig.9	20.60	P
	5720 MHz	Fig.10	20.85	P
802.11n HT20	5180 MHz	Fig.11	20.95	P
	5200 MHz	Fig.12	20.80	P
	5240 MHz	Fig.13	20.80	P
	5260 MHz	Fig.14	20.85	P
	5280 MHz	Fig.15	20.85	P
	5320 MHz	Fig.16	20.90	P
	5500 MHz	Fig.17	20.85	P
	5580 MHz	Fig.18	20.90	P
	5700 MHz	Fig.19	20.85	P
	5720 MHz	Fig.20	20.85	P

802.11ac HT40	5190 MHz	Fig.21	40.88	P
	5230 MHz	Fig.22	40.64	P
	5270 MHz	Fig.23	40.96	P
	5310 MHz	Fig.24	41.04	P
	5510 MHz	Fig.25	40.88	P
	5550 MHz	Fig.26	40.88	P
	5670 MHz	Fig.27	41.04	P
	5710 MHz	Fig.28	41.04	P

Conclusion: PASS
Test graphs as below:

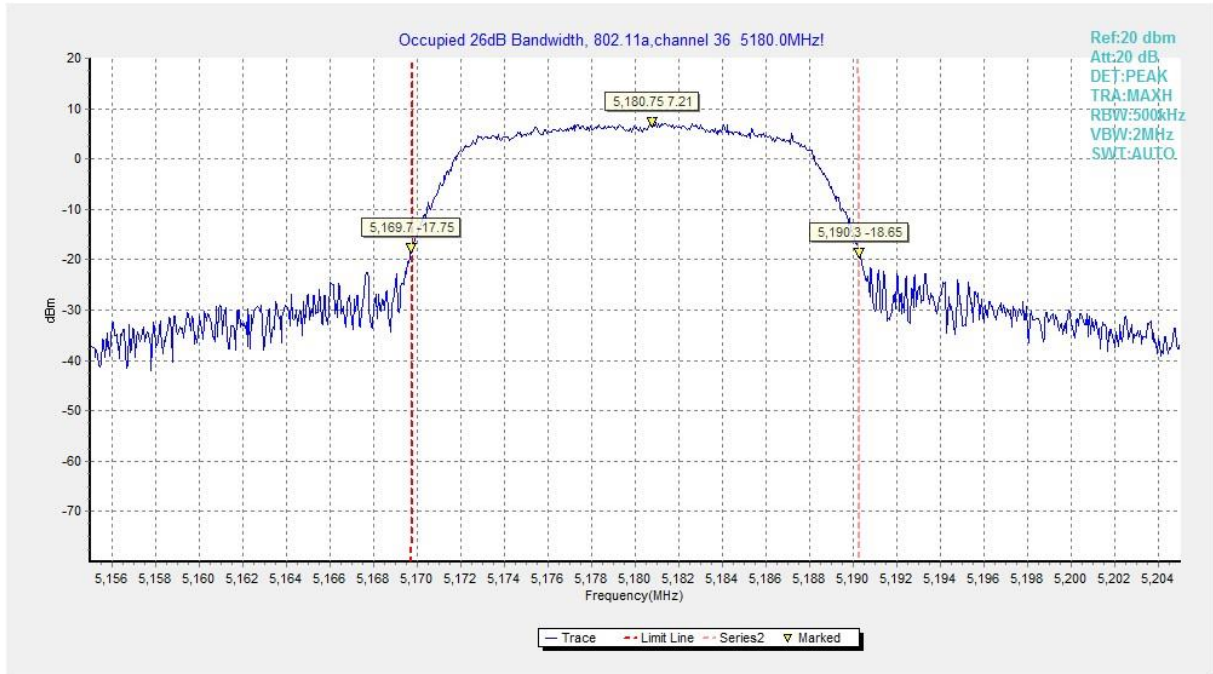


Fig.1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

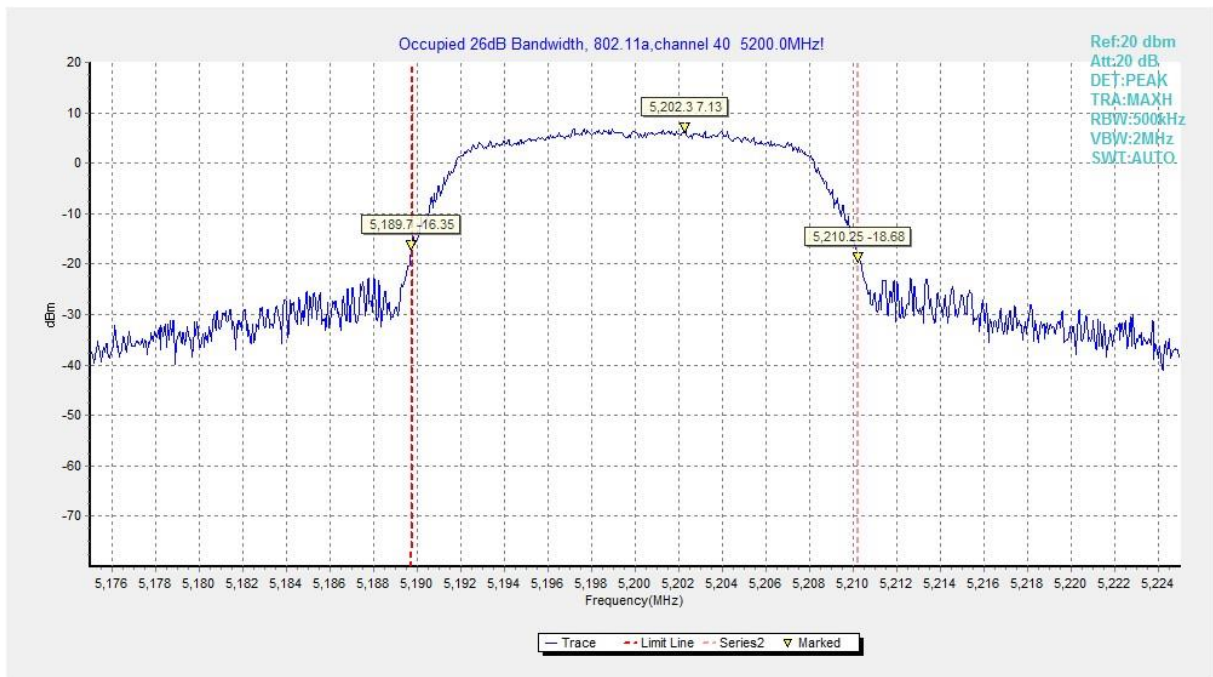


Fig.2 Occupied 26dB Bandwidth (802.11a, 5200MHz)

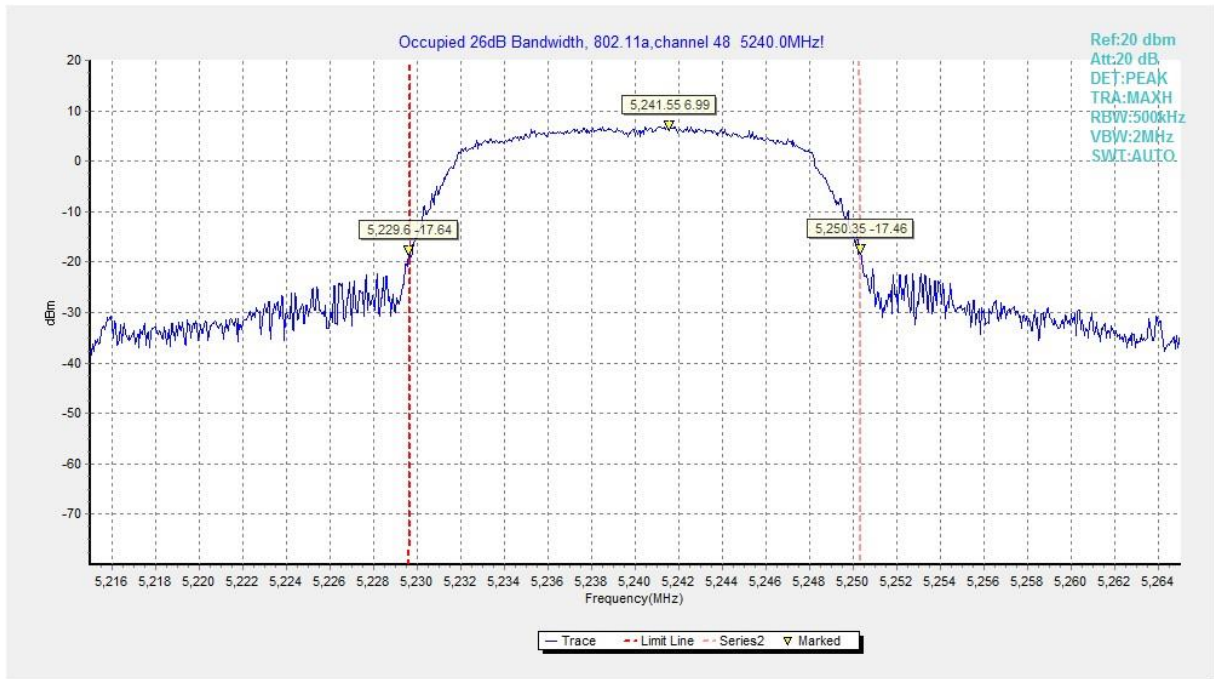


Fig.3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

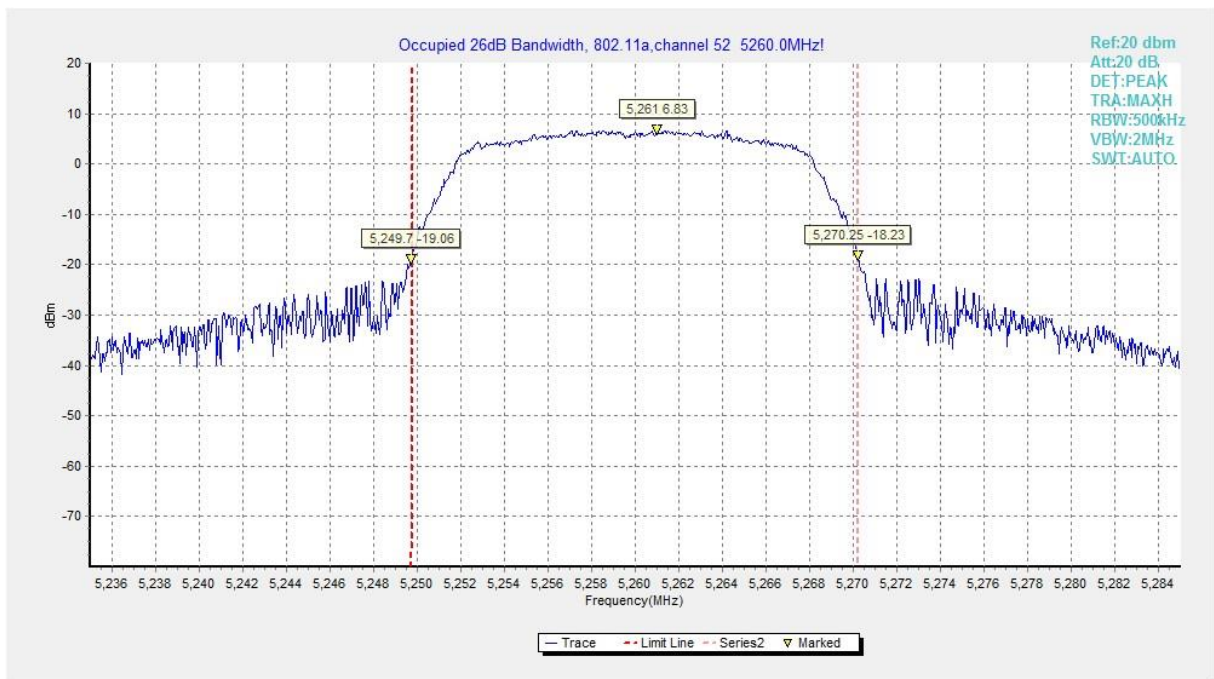


Fig.4 Occupied 26dB Bandwidth (802.11a, 5260MHz)

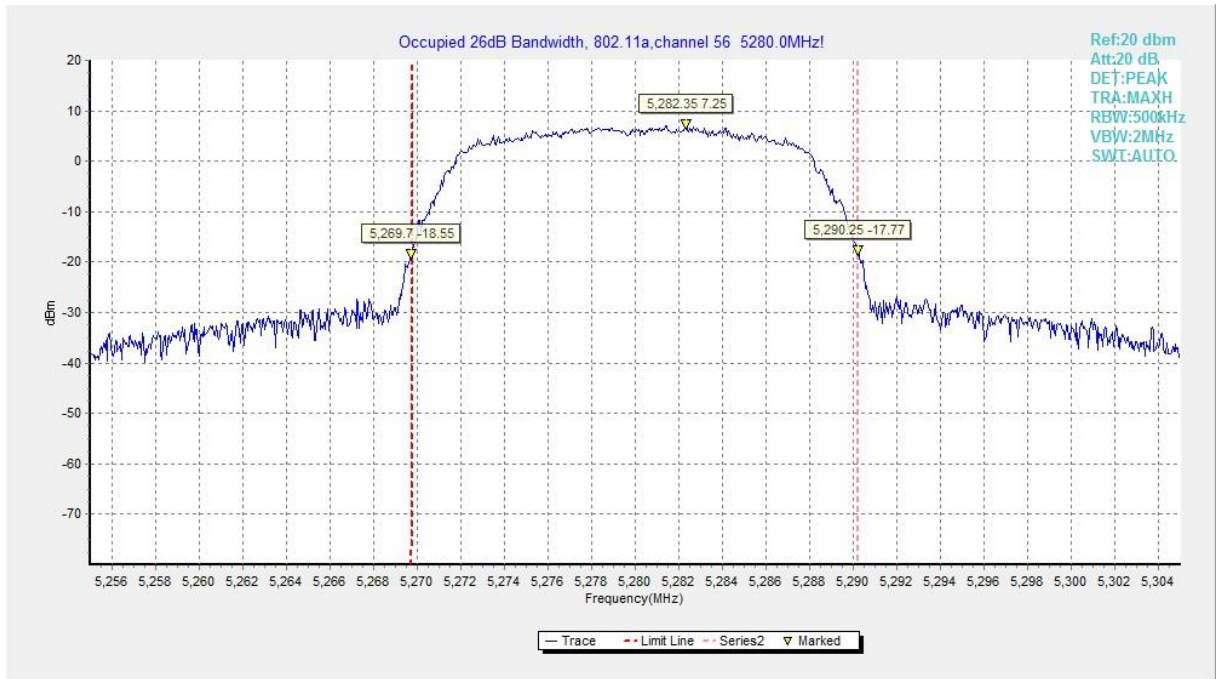


Fig.5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

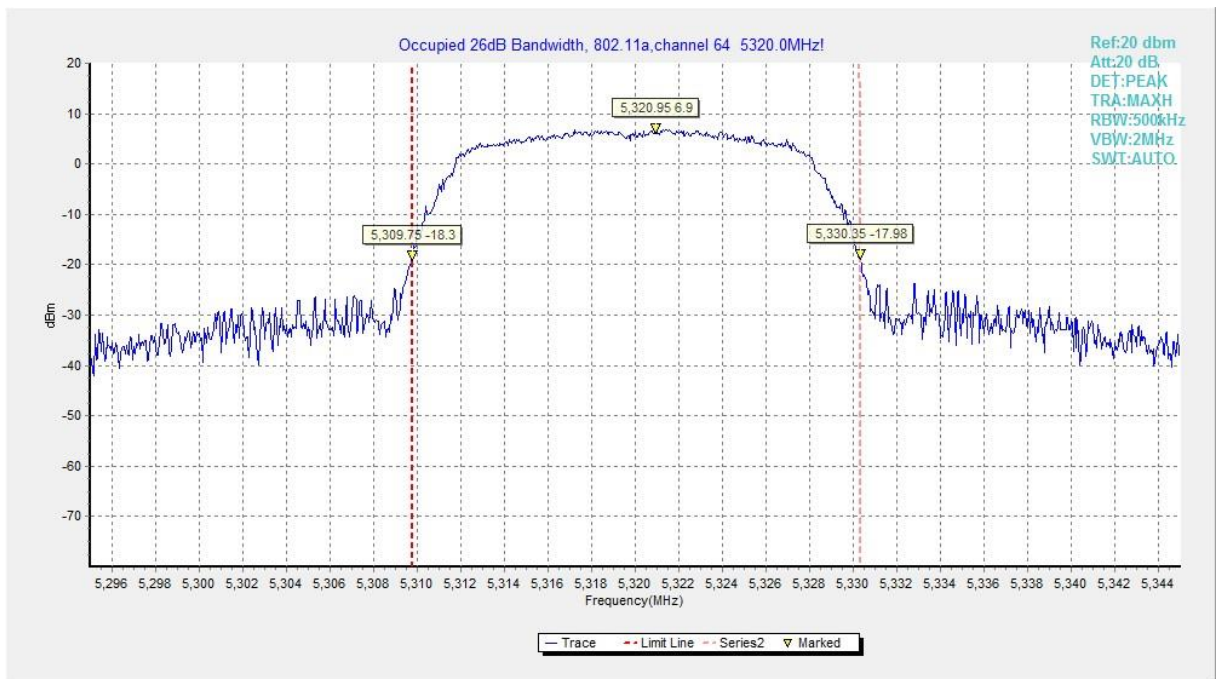


Fig.6 Occupied 26dB Bandwidth (802.11a, 5320MHz)

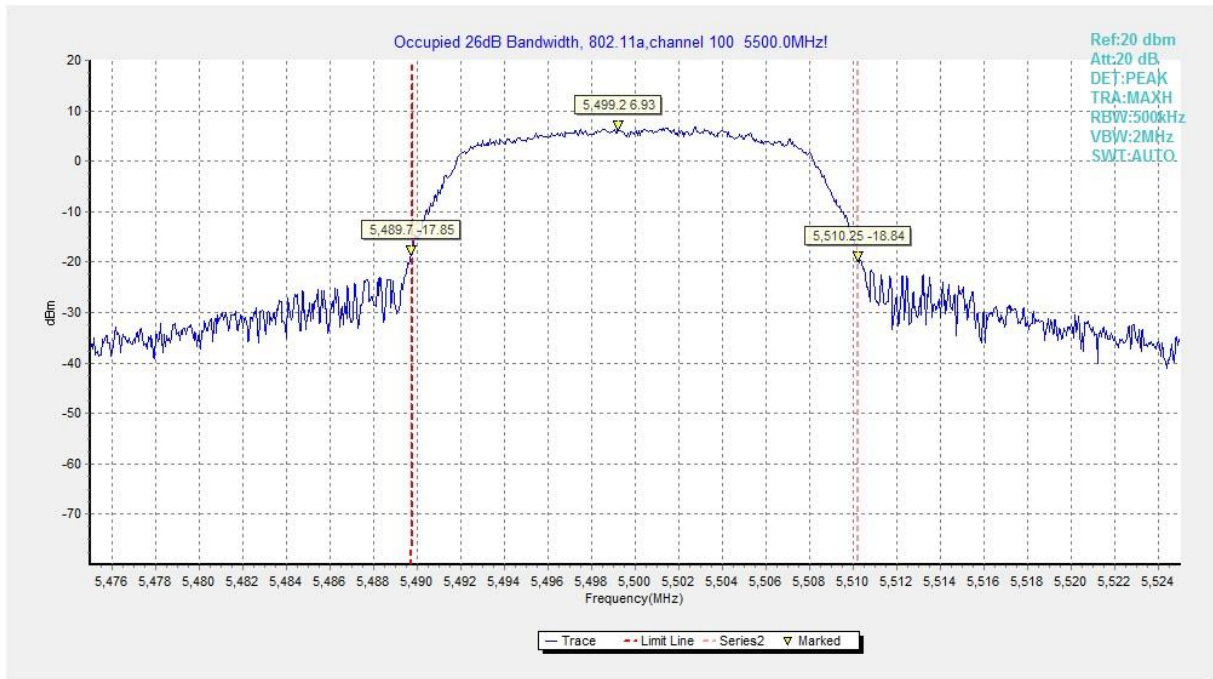


Fig.7 Occupied 26dB Bandwidth (802.11a, 5500MHz)

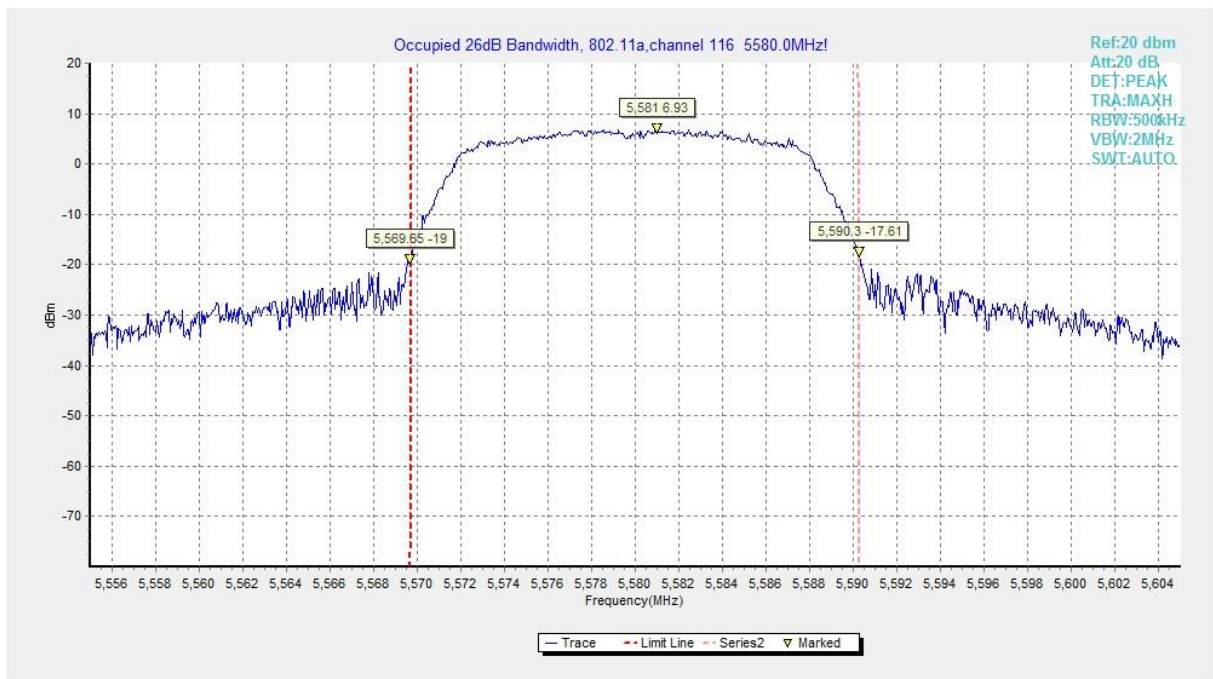


Fig.8 Occupied 26dB Bandwidth (802.11a, 5580MHz)

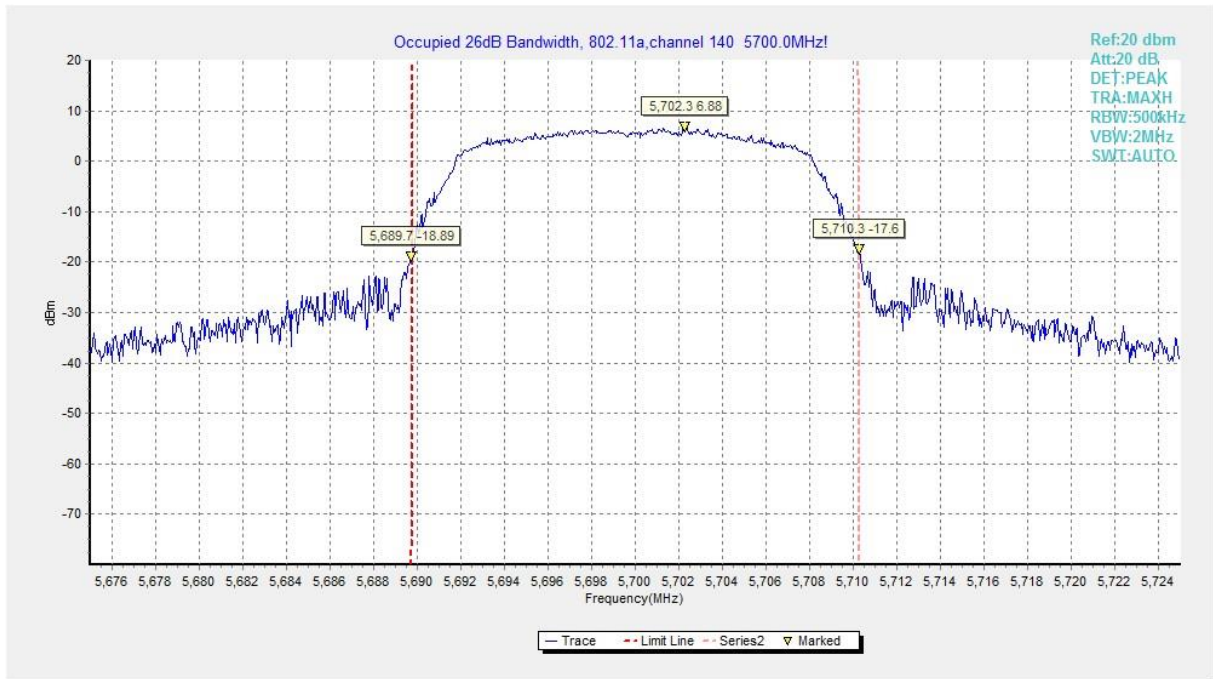


Fig.9 Occupied 26dB Bandwidth (802.11a, 5700MHz)

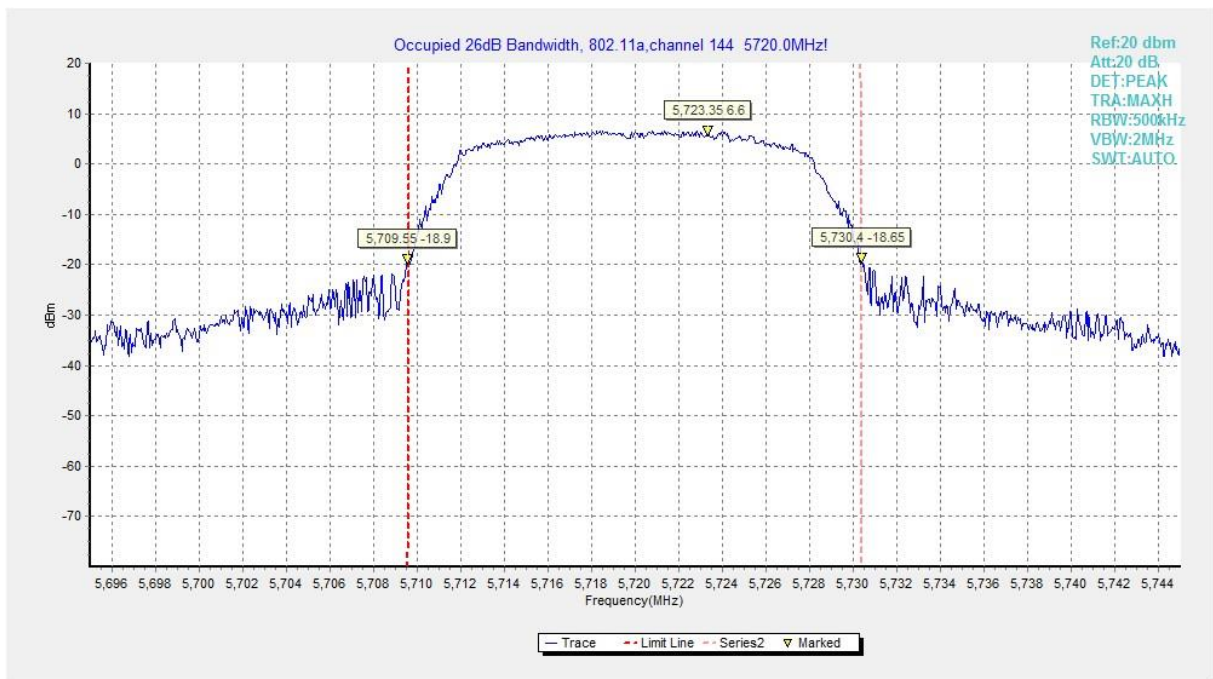


Fig.10 Occupied 26dB Bandwidth (802.11a, 5720MHz)

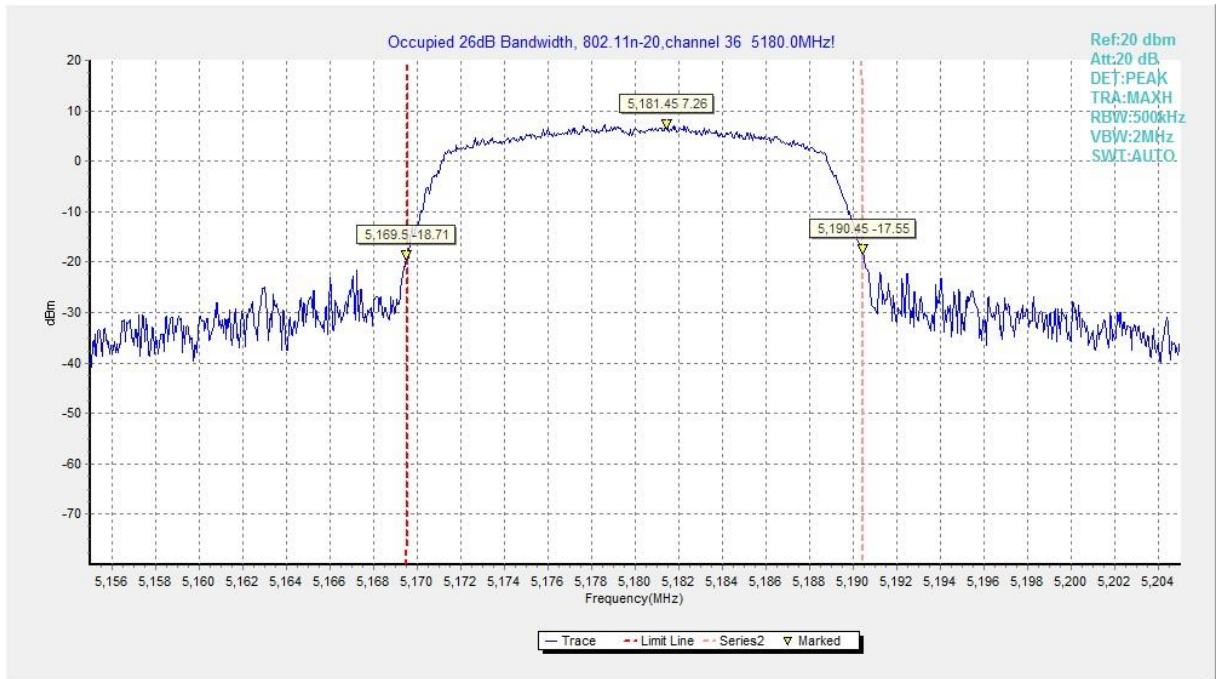


Fig.11 Occupied 26dB Bandwidth (802.11n-HT20, 5180MHz)

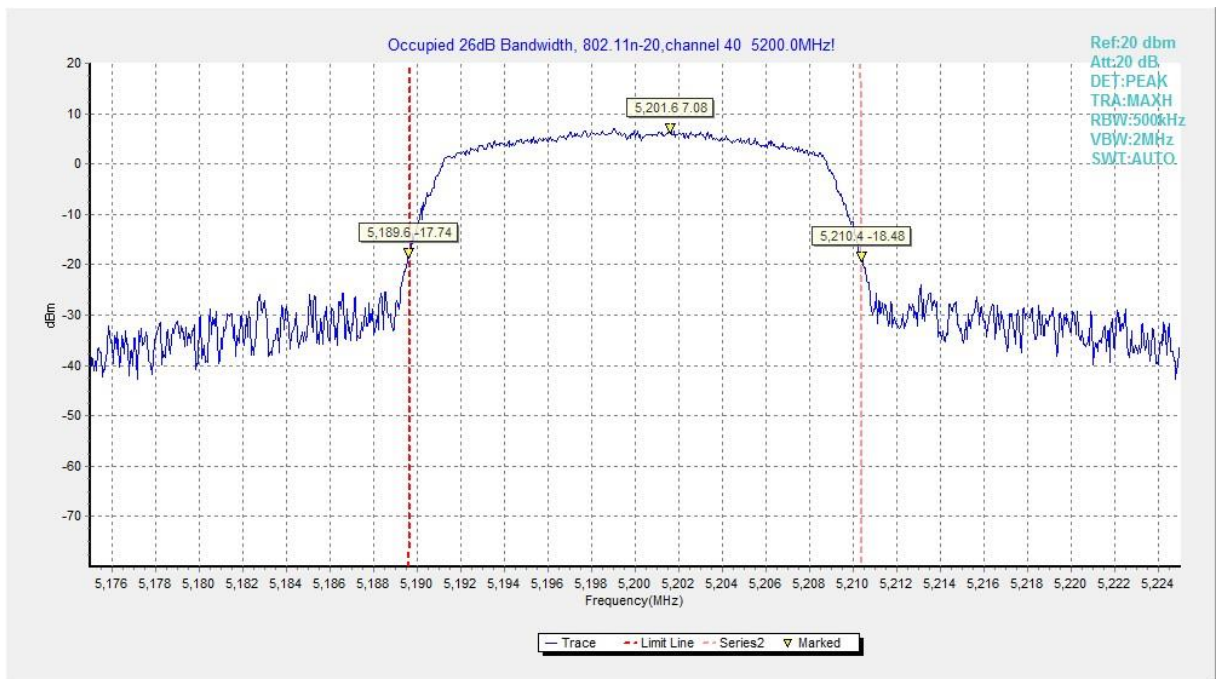


Fig.12 Occupied 26dB Bandwidth (802.11n-HT20, 5200MHz)

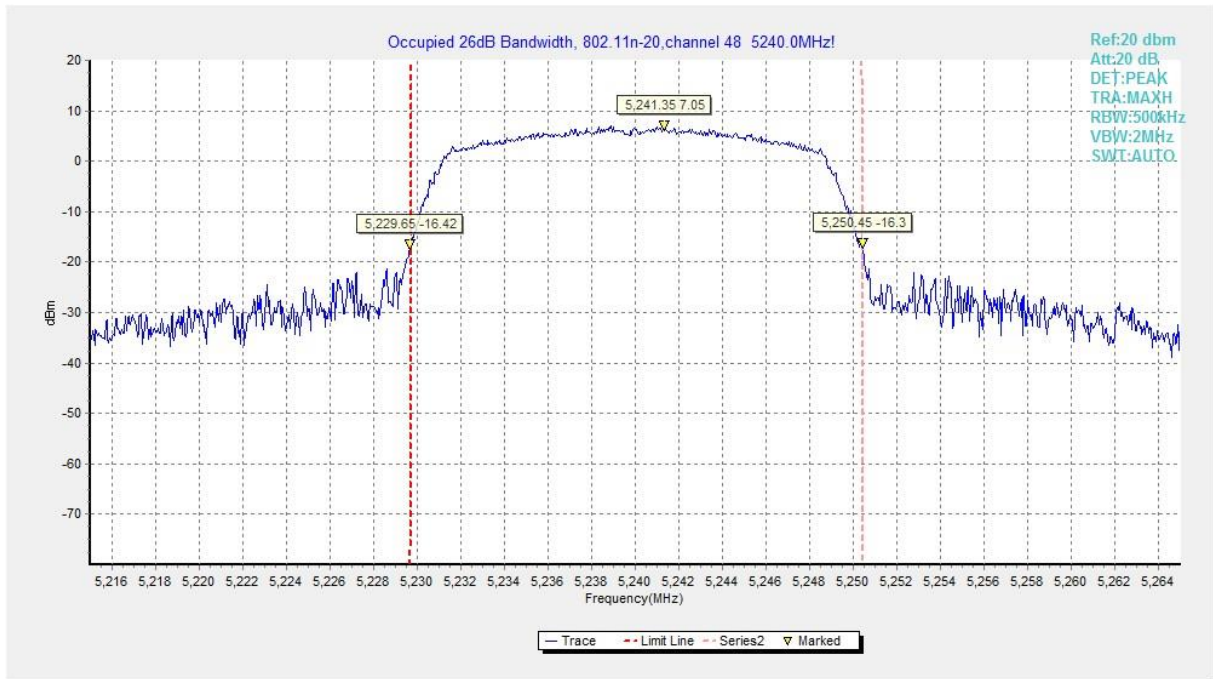


Fig.13 Occupied 26dB Bandwidth (802.11n-HT20, 5240MHz)

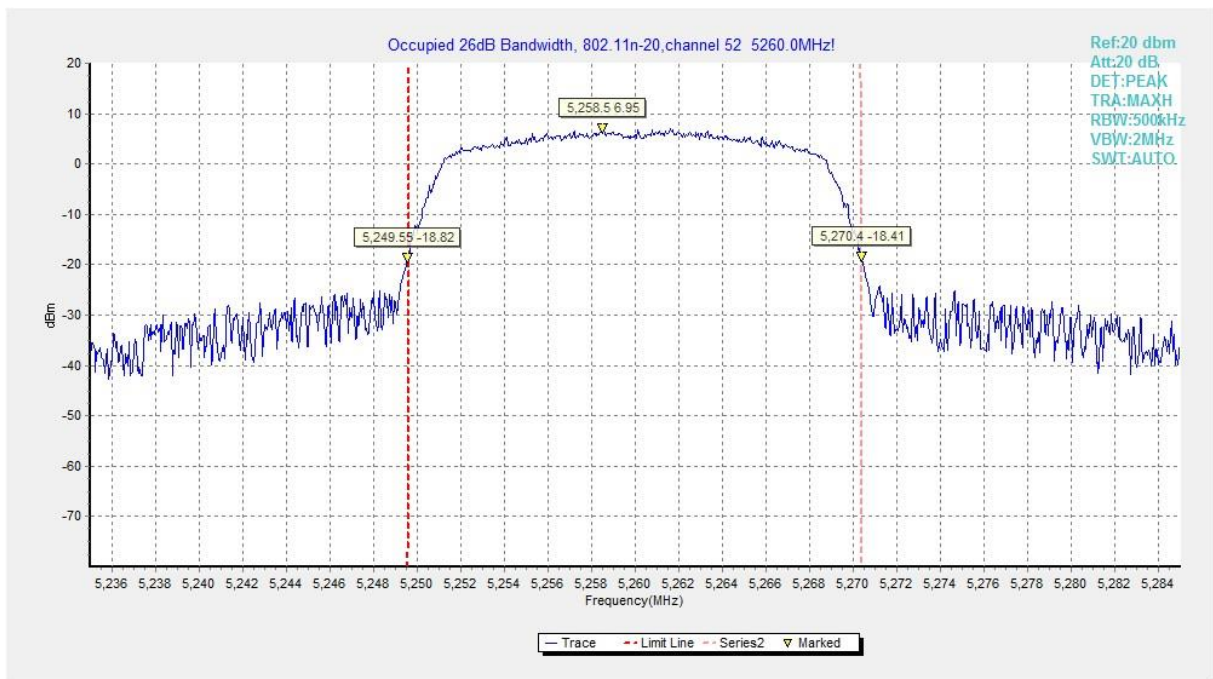


Fig.14 Occupied 26dB Bandwidth (802.11n-HT20, 5260MHz)

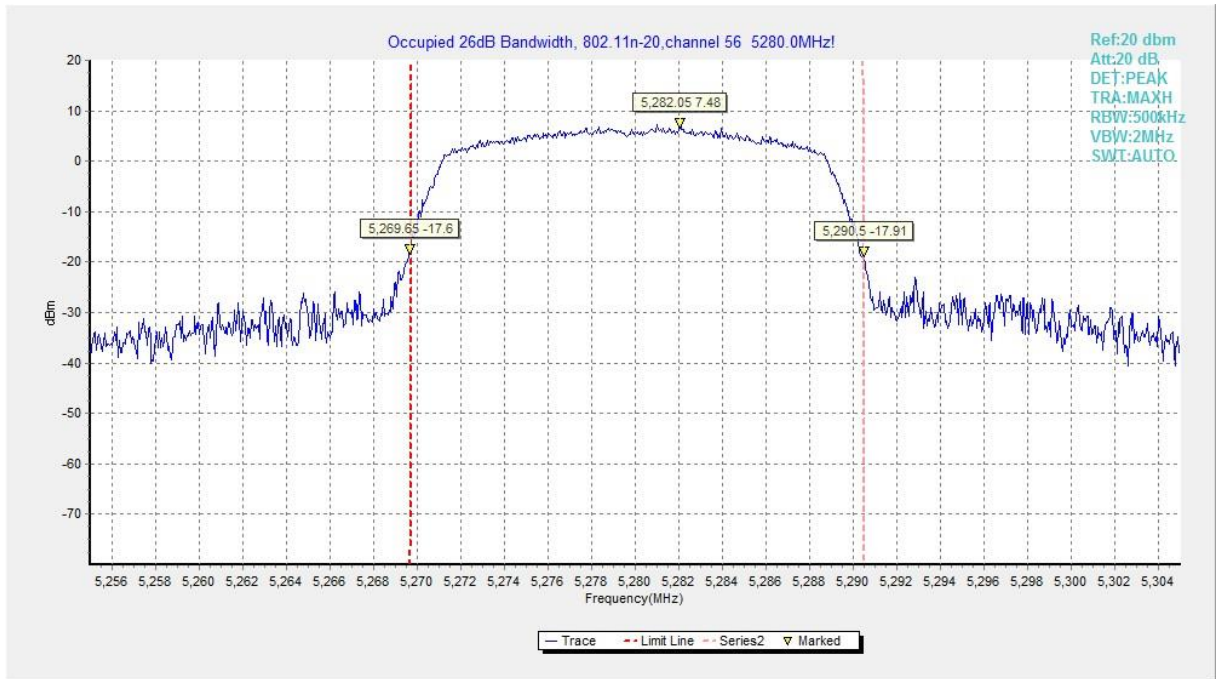


Fig.15 Occupied 26dB Bandwidth (802.11n-HT20, 5280MHz)

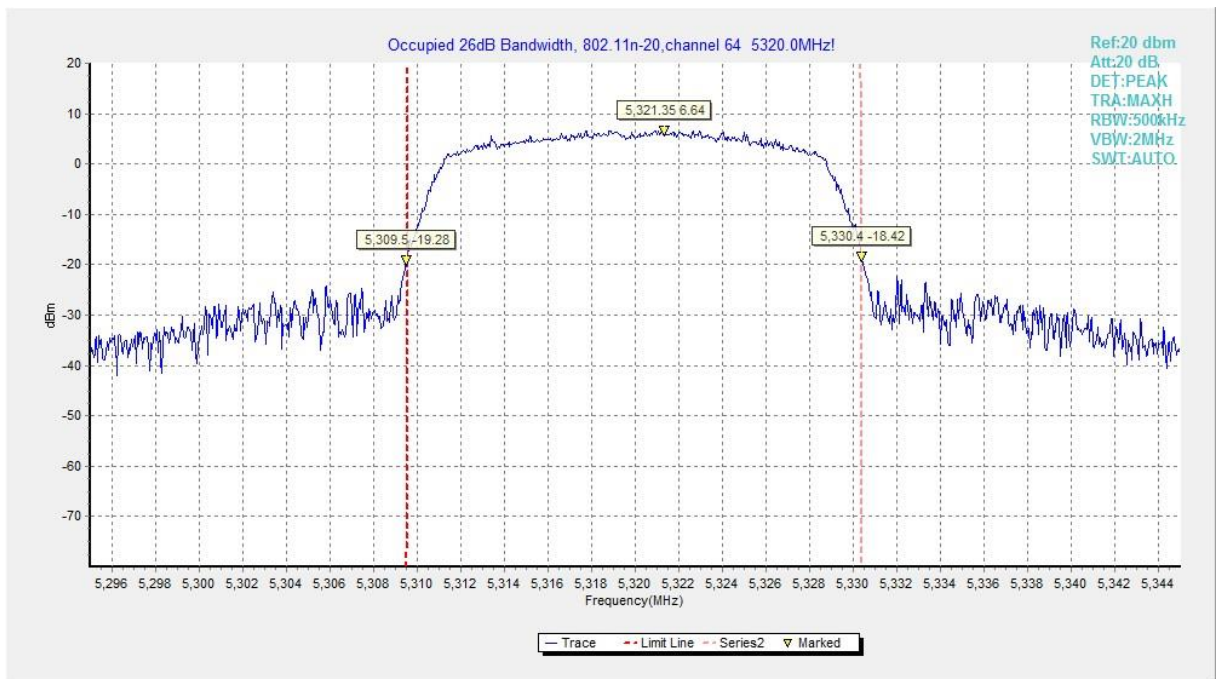


Fig.16 Occupied 26dB Bandwidth (802.11n-HT20, 5320MHz)

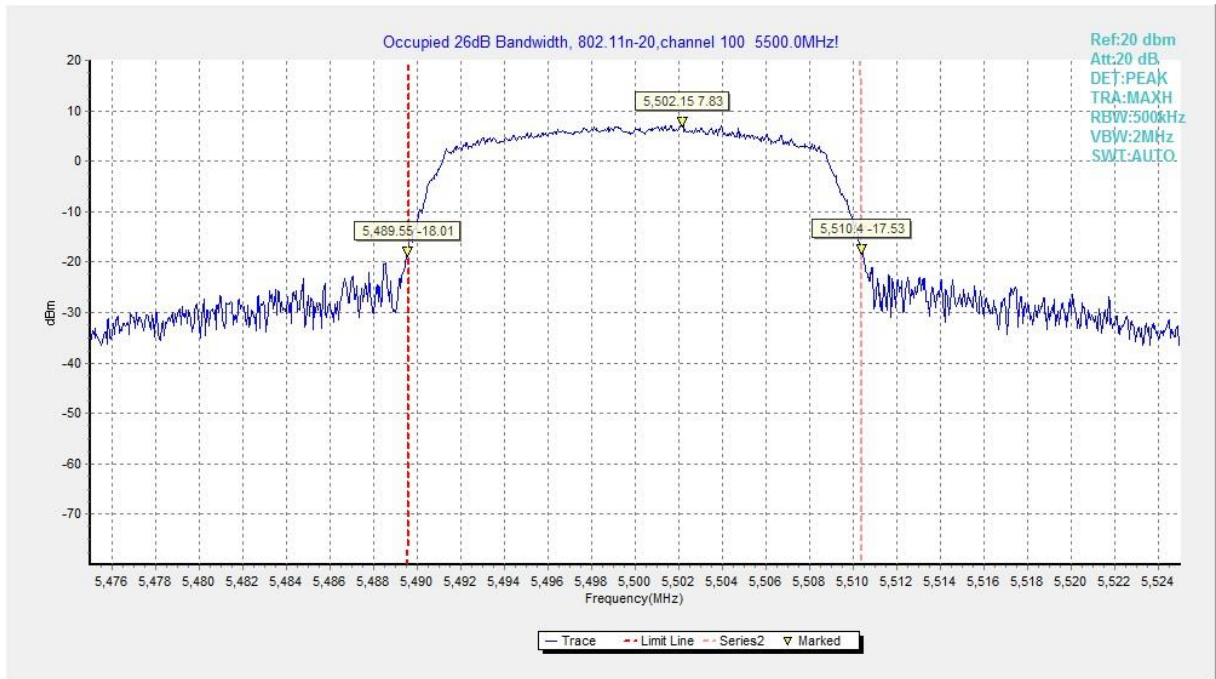


Fig.17 Occupied 26dB Bandwidth (802. 11n-HT20, 5500MHz)

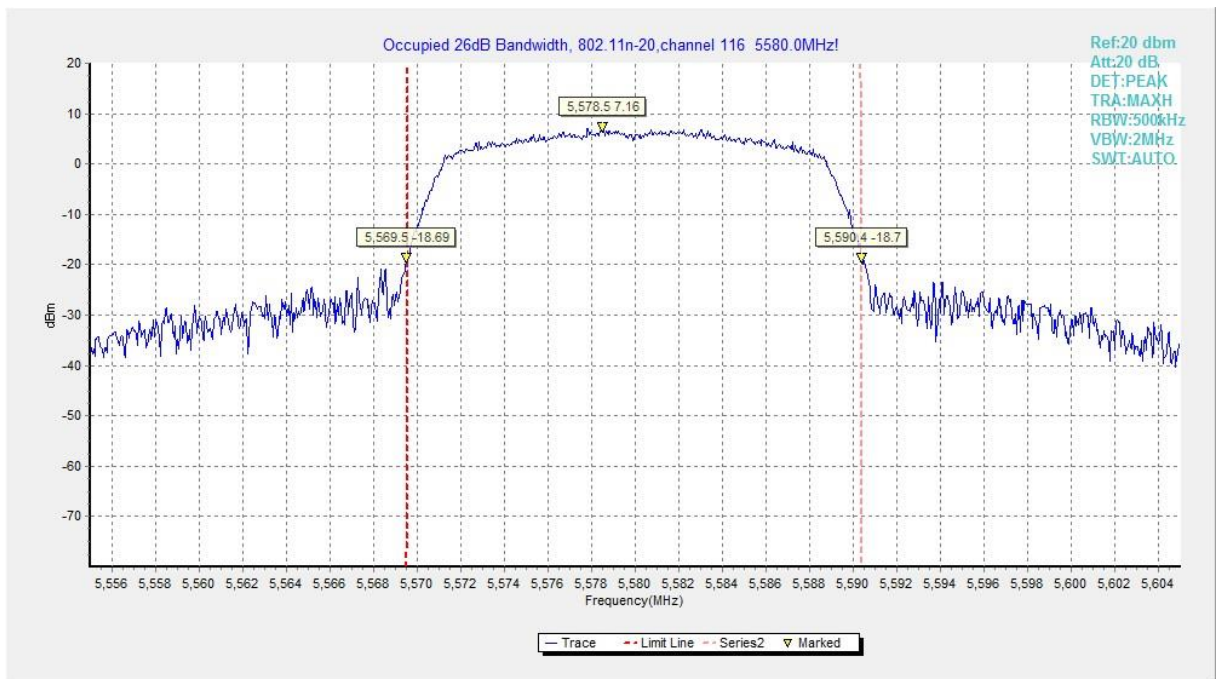


Fig.18 Occupied 26dB Bandwidth (802. 11n-HT20, 5580MHz)

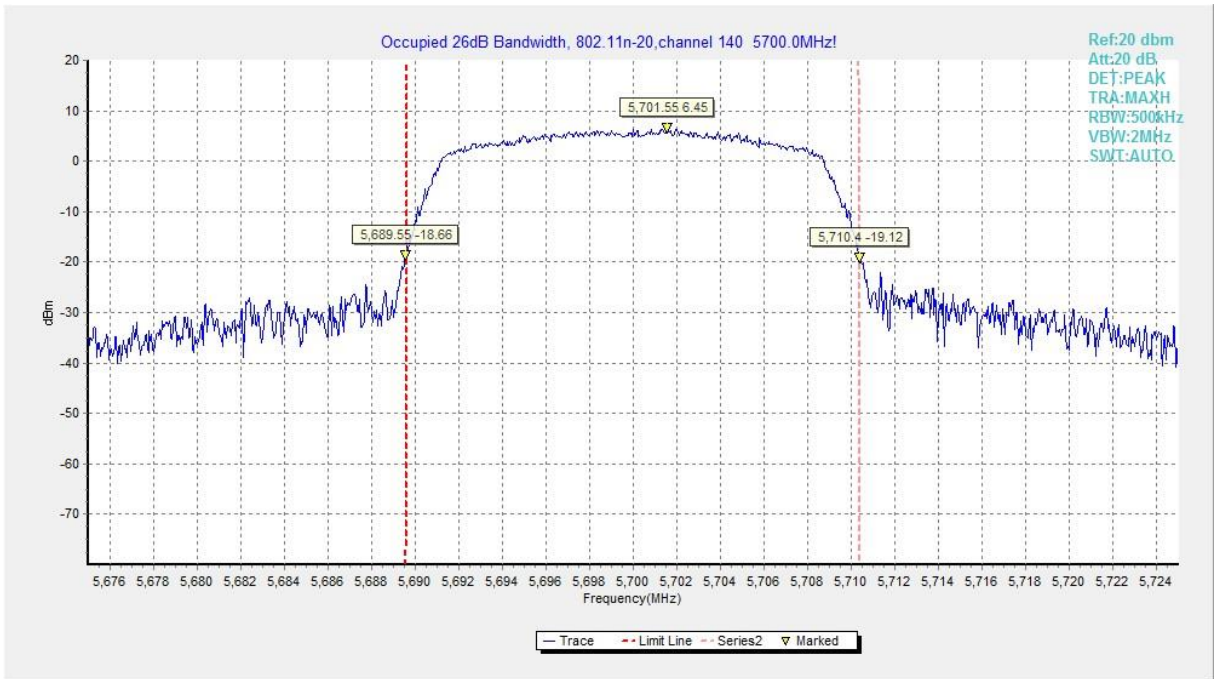


Fig.19 Occupied 26dB Bandwidth (802. 11n-HT20, 5700MHz)

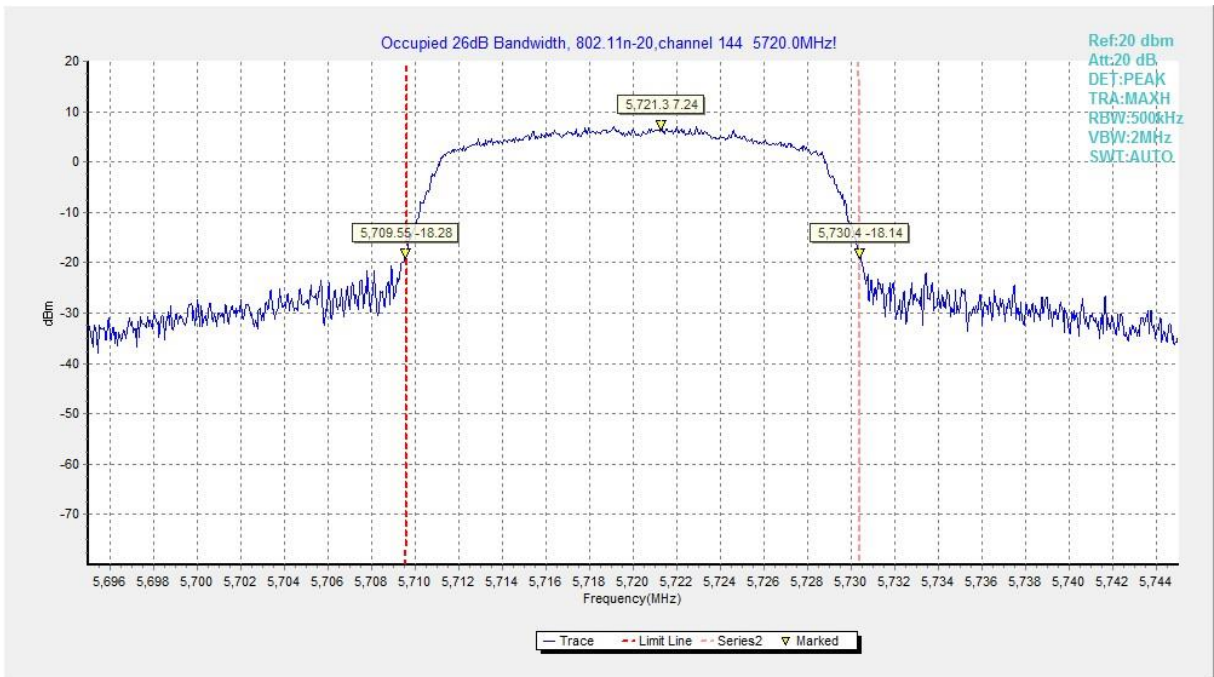


Fig.20 Occupied 26dB Bandwidth (802. 11n-HT20, 5720MHz)

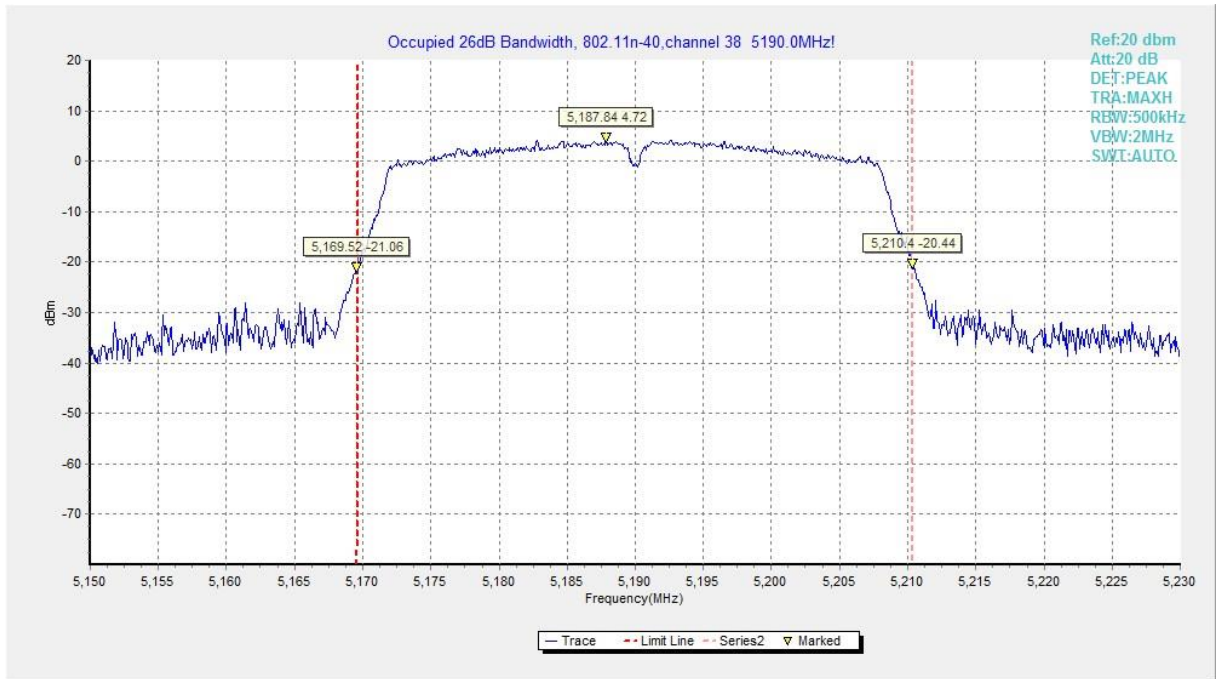


Fig.21 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)

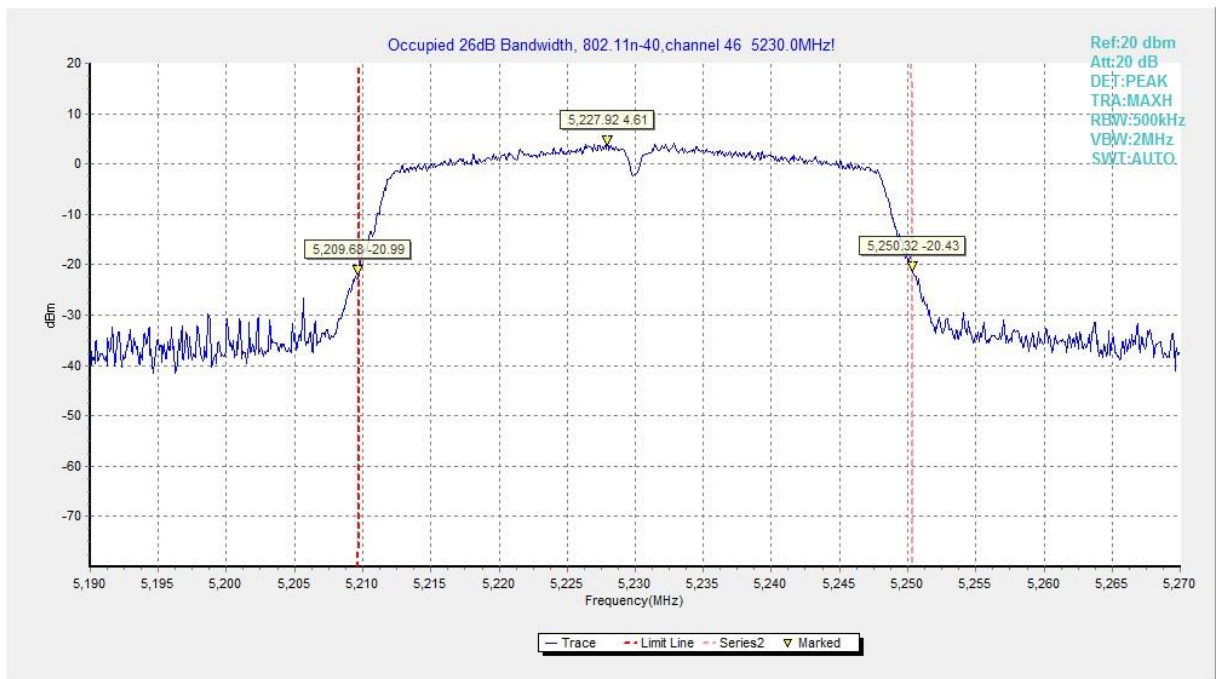


Fig.22 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)

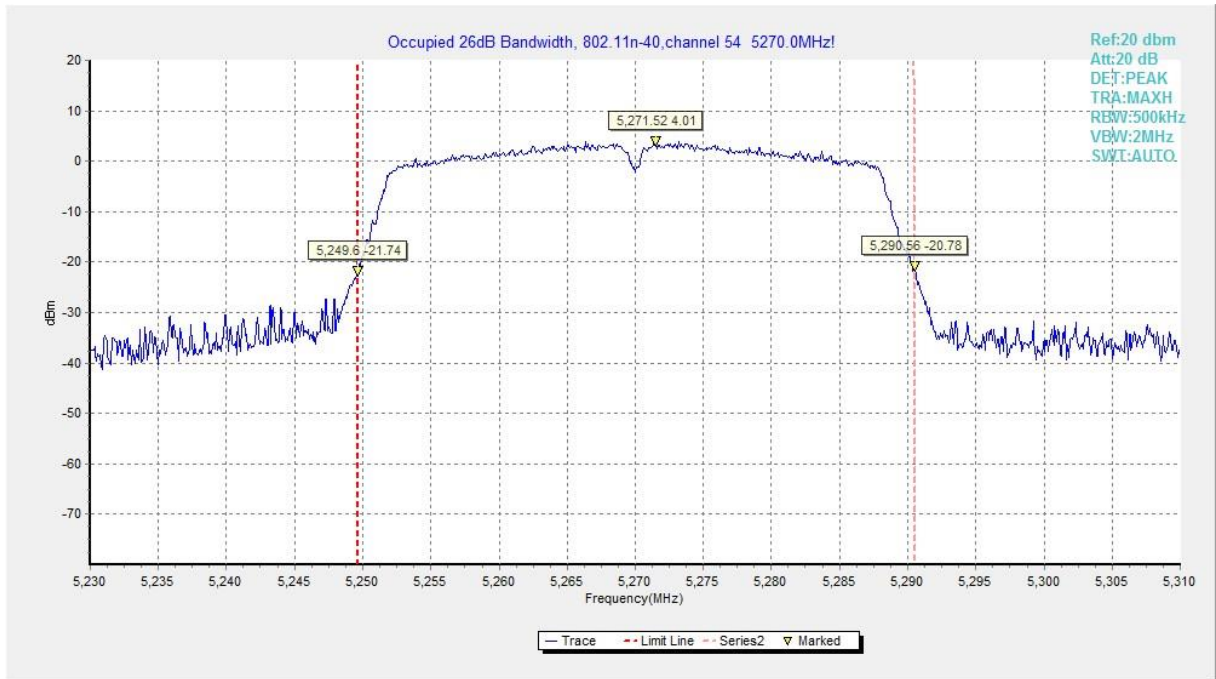


Fig.23 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)

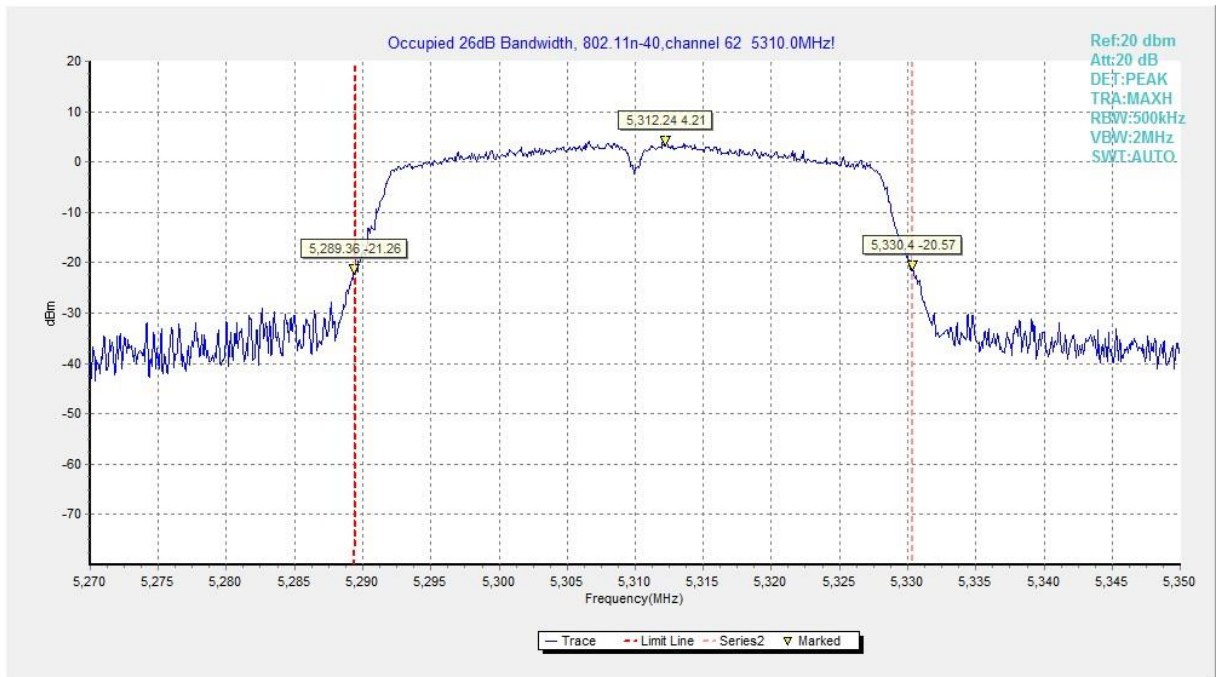


Fig.24 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)

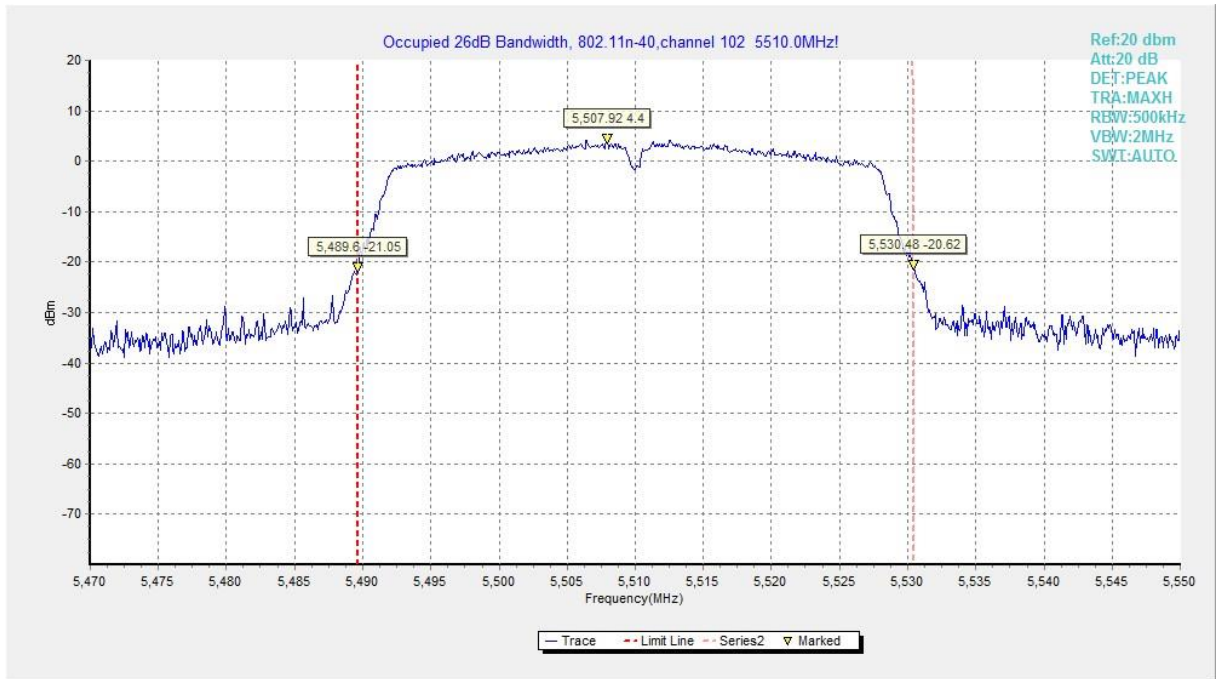


Fig.25 Occupied 26dB Bandwidth (802. 11n-HT40, 5510MHz)

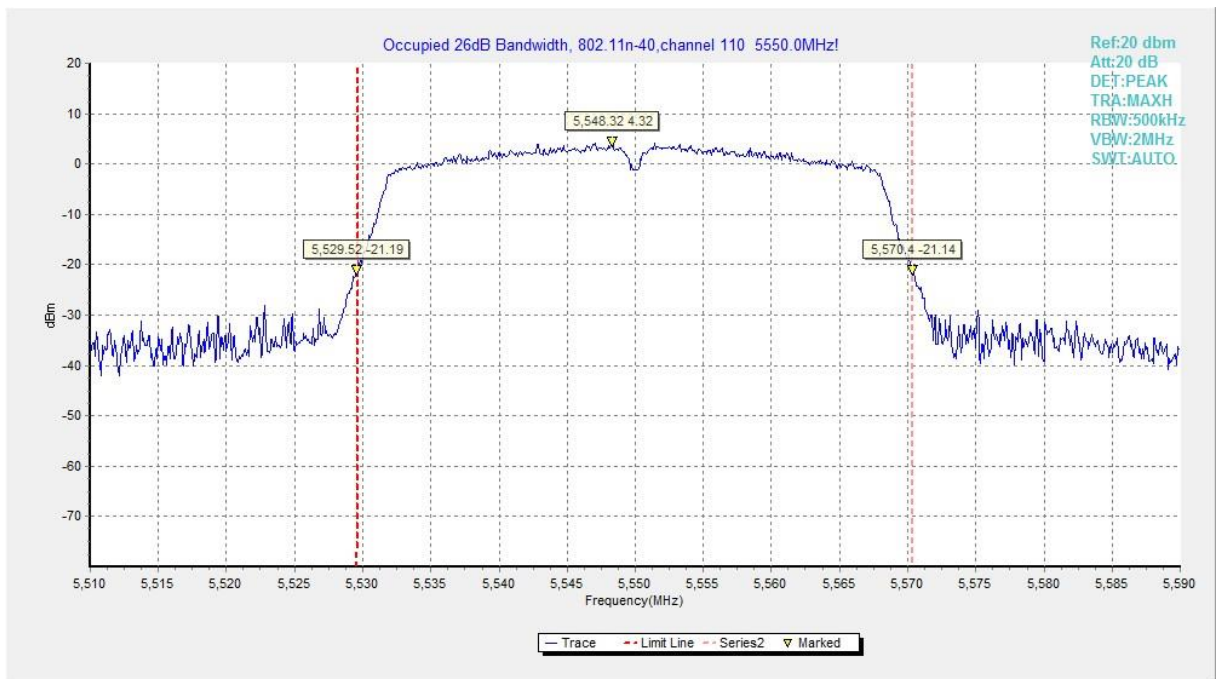


Fig.26 Occupied 26dB Bandwidth (802. 11n-HT40, 5590MHz)

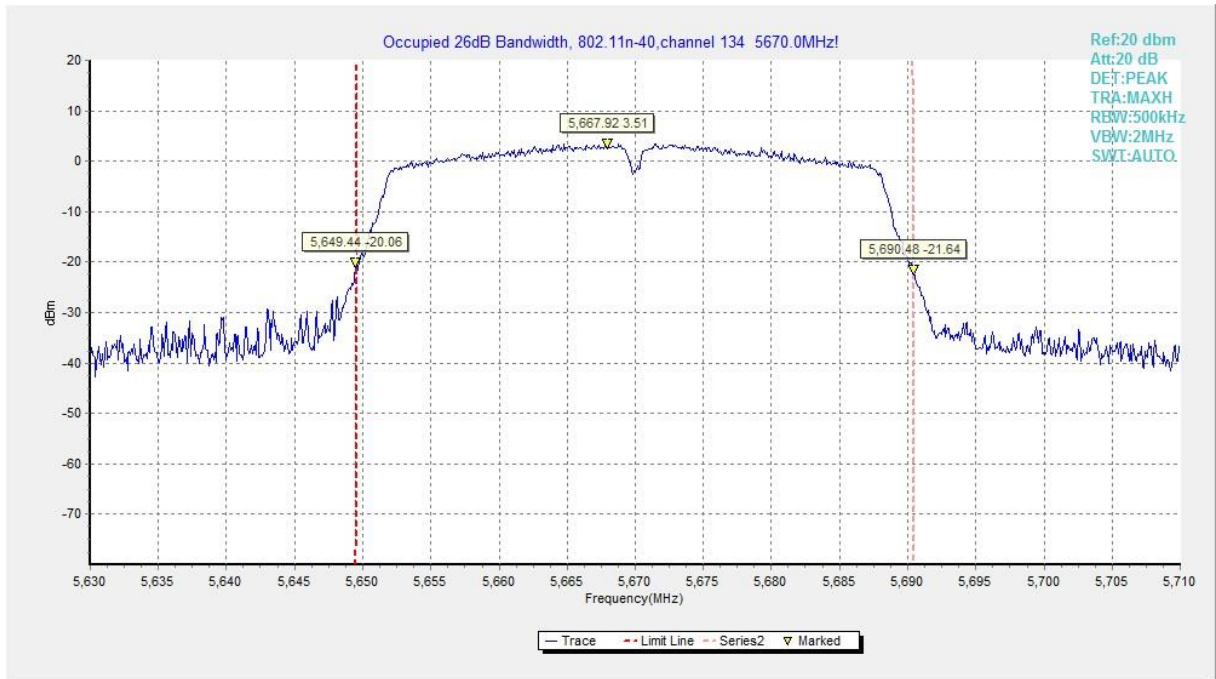


Fig.27 Occupied 26dB Bandwidth (802. 11n-HT40, 5670MHz)

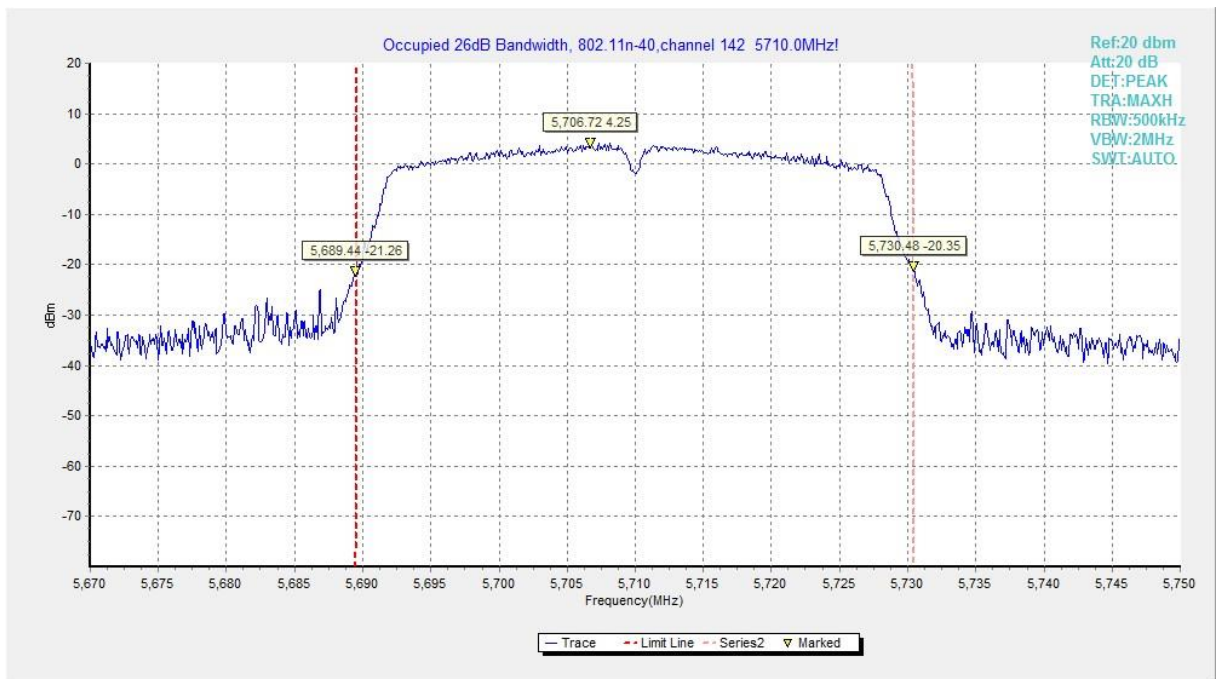


Fig.28 Occupied 26dB Bandwidth (802. 11n-HT40, 5710MHz)

A.5. Band Edges Compliance

A5.1 Band Edges - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

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(uV/m)	Field strength(dBuV/m)	Measurement distance(m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The measurement is made according to ANSI C63.10-2013 and KDB 789033

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.29	P
	5320 MHz	Fig.30	P
	5500 MHz	Fig.31	P
	5700 MHz	Fig.32	P
802.11n HT20	5180 MHz	Fig.33	P
	5320 MHz	Fig.34	P
	5500 MHz	Fig.35	P
	5700 MHz	Fig.36	P
802.11n HT40	5190 MHz	Fig.37	P
	5310 MHz	Fig.38	P
	5510 MHz	Fig.39	P
	5670 MHz	Fig.40	P

Conclusion: PASS

Test graphs as below:

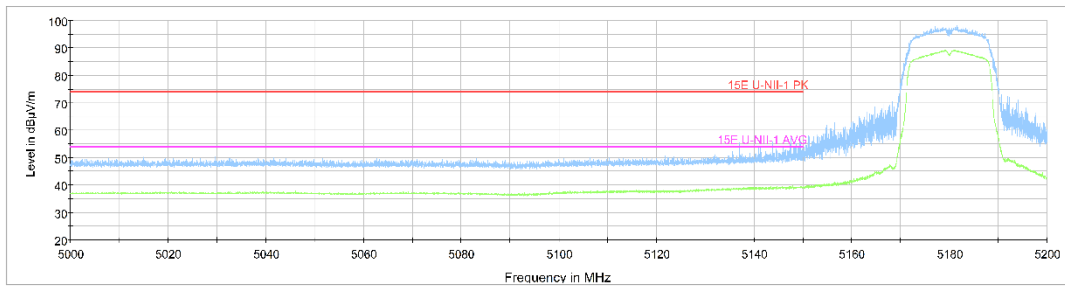


Fig.29 Band Edges (802.11a Ch36, 5180MHz)

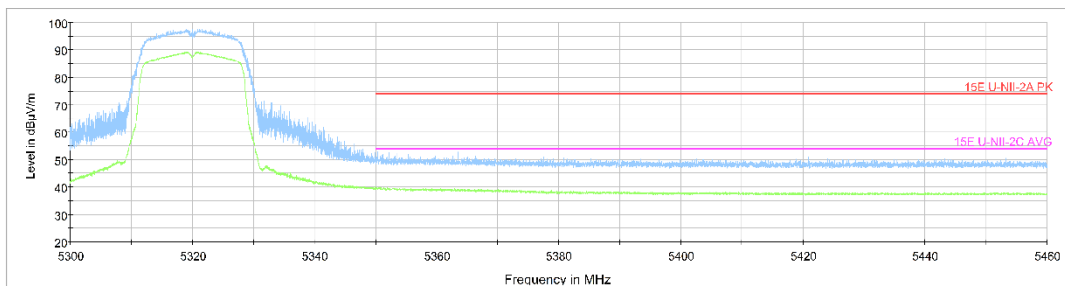


Fig.30 Band Edges (802.11a Ch64, 5320MHz)

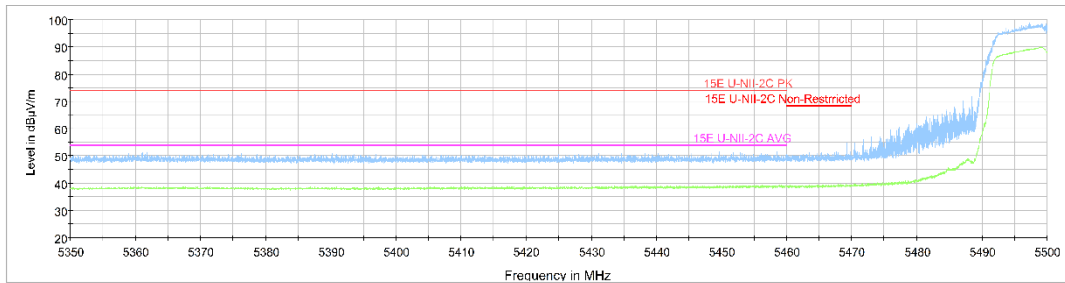


Fig.31 Band Edges (802.11a Ch100, 5500MHz)

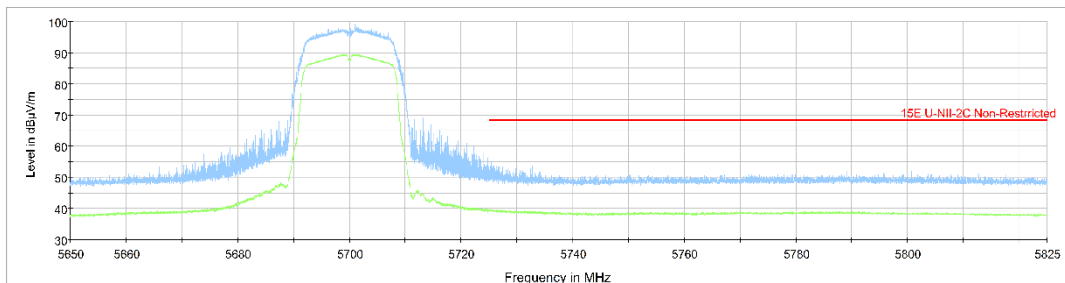


Fig.32 Band Edges (802.11a Ch140, 5700MHz)

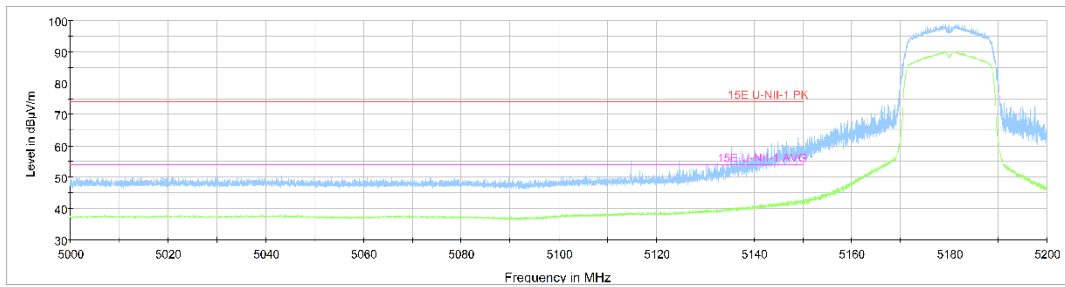


Fig.33 Band Edges (802.11n-HT20 Ch36, 5180MHz)

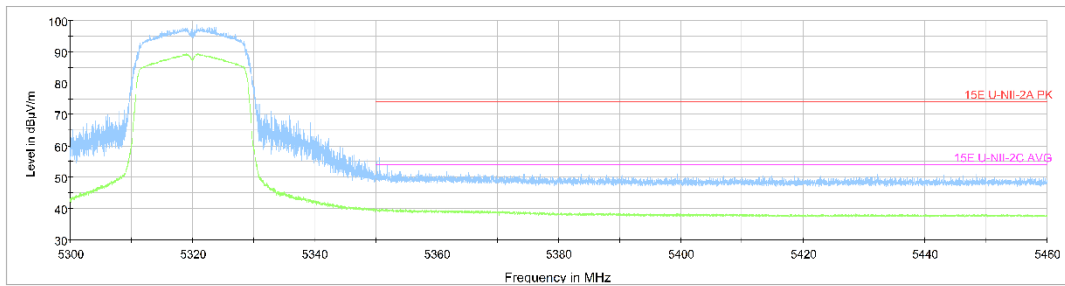


Fig.34 Band Edges (802.11n-HT20 Ch64, 5320MHz)

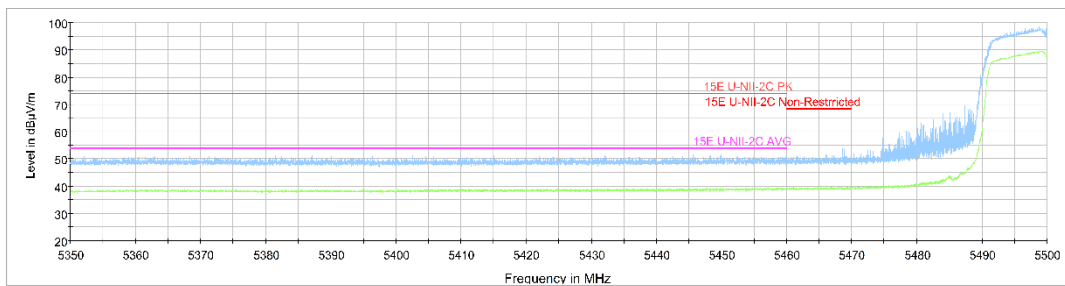


Fig.35 Band Edges (802.11n-HT20 Ch100, 5500MHz)

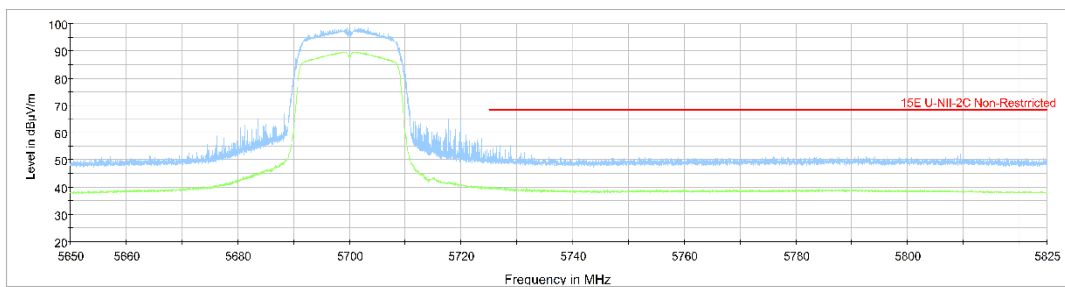


Fig.36 Band Edges (802.11n-HT20 Ch140, 5700MHz)

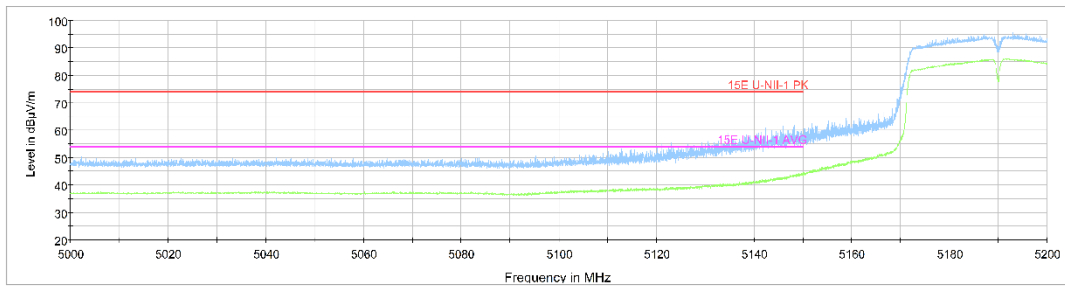


Fig.37 Band Edges (802.11n-HT40 Ch38, 5190MHz)

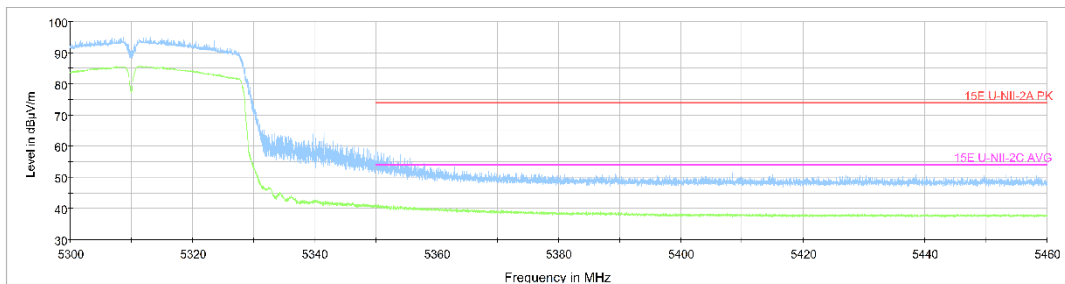


Fig.38 Band Edges (802.11n-HT40 Ch62, 5310MHz)

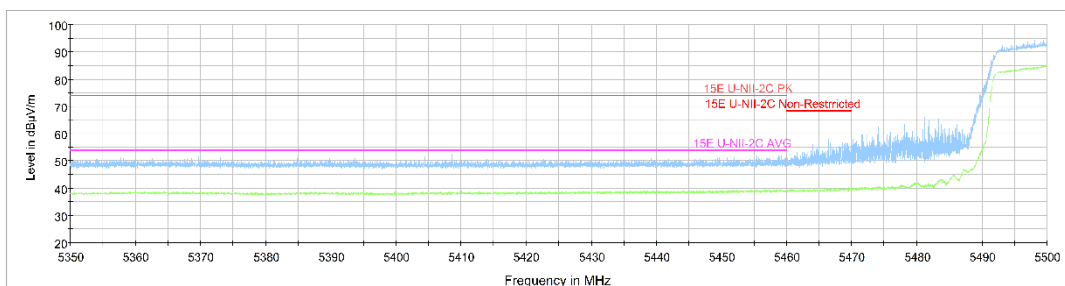


Fig.39 Band Edges (802.11n-HT40 Ch102, 5510MHz)

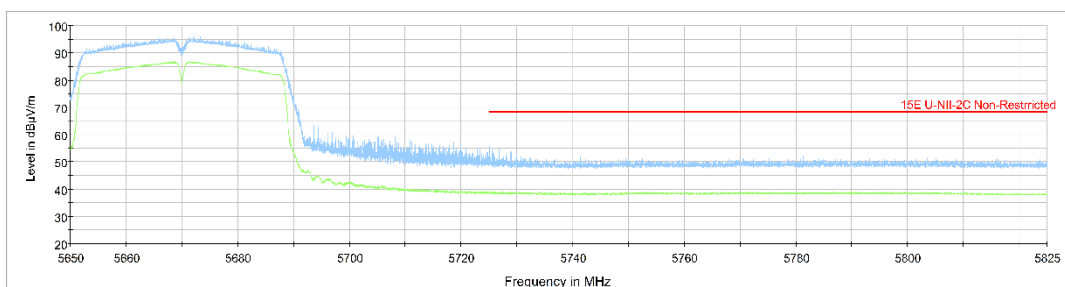


Fig.40 Band Edges (802.11n-HT40 Ch134, 5670MHz)

A.6. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

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(uV/m)	Field strength(dBuV/m)	Measurement distance(m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The measurement is made according to ANSI C63.10-2013 and KDB 789033

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	36(5180MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	40(5200MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	48(5240MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	140(5700MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
7 GHz ~ 18 GHz		---	P	

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n -HT20	36(5180MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	40(5200MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
		48(5240MHz)	1 GHz ~ 3 GHz	---
	3 GHz ~ 7 GHz		---	P
	7 GHz ~ 18 GHz		---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	140(5700MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n HT40	38(5190MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	46(5230MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	54(5270MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	62(5310MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	102(5510MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	118(5590MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
134(5670MHz)	30 MHz ~1 GHz	---	P	
	1 GHz ~ 3 GHz	---	P	
	3 GHz ~ 7 GHz	---	P	
	7 GHz ~ 18 GHz	---	P	
	18 GHz ~ 26.5 GHz	---	P	
	26.5 GHz ~ 40 GHz	---	P	

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$

AVERAGE Results:

802.11a

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.000	45.99	-25.50	46.66	24.83	54.00	8.01	V
17998.900	45.80	-25.50	46.66	24.64	54.00	8.20	V
14483.300	38.64	-28.59	42.46	24.77	54.00	15.36	H
14473.400	38.58	-28.59	42.46	24.71	54.00	15.42	H
5148.000	39.77	-27.61	33.67	33.71	54.00	14.23	H
5150.000	39.59	-27.61	33.67	33.53	54.00	14.41	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17991.800	45.76	-25.50	46.66	24.60	54.00	8.24	V
17997.200	45.69	-25.50	46.66	24.53	54.00	8.31	V
14483.300	38.63	-28.59	42.46	24.76	54.00	15.37	H
14482.800	38.55	-28.59	42.46	24.68	54.00	15.45	H
11840.000	34.11	-31.85	39.05	26.91	54.00	19.89	H
11821.900	34.10	-31.85	39.05	26.90	54.00	19.90	V

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.000	45.77	-25.50	46.66	24.61	54.00	8.23	H
17984.000	45.71	-25.50	46.66	24.55	54.00	8.29	H
14475.000	38.43	-28.59	42.46	24.56	54.00	15.57	H
14490.500	38.33	-28.59	42.46	24.46	54.00	15.67	H
11834.000	34.33	-31.85	39.05	27.13	54.00	19.67	V
11918.600	33.79	-31.48	39.09	26.18	54.00	20.21	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17980.800	46.04	-25.50	46.66	24.88	54.00	7.96	V
17987.300	45.85	-25.50	46.66	24.69	54.00	8.15	H
14483.900	39.07	-28.59	42.46	25.20	54.00	14.93	H
14488.800	38.88	-28.59	42.46	25.01	54.00	15.12	V
11813.600	34.53	-31.85	39.05	27.33	54.00	19.47	H
11922.000	34.43	-31.48	39.09	26.82	54.00	19.57	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.900	46.37	-25.50	46.66	25.21	54.00	7.63	H
17996.200	46.32	-25.50	46.66	25.16	54.00	7.68	H
14498.700	39.05	-28.59	42.46	25.18	54.00	14.95	H
14493.800	38.94	-28.59	42.46	25.07	54.00	15.06	H
11849.900	34.48	-31.85	39.05	27.28	54.00	19.52	V
11818.500	34.46	-31.85	39.05	27.26	54.00	19.54	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17982.400	46.17	-25.50	46.66	25.01	54.00	7.83	V
17994.000	46.13	-25.50	46.66	24.97	54.00	7.87	H
14470.600	38.94	-28.59	42.46	25.07	54.00	15.06	V
14471.800	38.94	-28.59	42.46	25.07	54.00	15.06	V
5350.100	39.85	-27.43	34.01	33.27	54.00	14.15	H
5350.000	39.80	-27.43	34.01	33.22	54.00	14.20	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.000	46.21	-25.50	46.66	25.05	54.00	7.79	H
17991.200	46.04	-25.50	46.66	24.88	54.00	7.96	H
14483.300	38.86	-28.59	42.46	24.99	54.00	15.14	H
14484.400	38.84	-28.59	42.46	24.97	54.00	15.16	H
5458.900	39.40	-27.18	34.17	32.41	54.00	14.60	H
5459.200	39.32	-27.18	34.17	32.33	54.00	14.68	H

Channel 120

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.000	46.39	-25.50	46.66	25.23	54.00	7.61	H
17980.200	46.08	-25.50	46.66	24.92	54.00	7.92	H
14482.200	38.91	-28.59	42.46	25.04	54.00	15.09	V
14477.800	38.85	-28.59	42.46	24.98	54.00	15.15	V
11838.900	34.75	-31.85	39.05	27.55	54.00	19.25	H
11845.500	34.72	-31.85	39.05	27.52	54.00	19.28	H

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17984.600	46.10	-25.50	46.66	24.94	54.00	7.90	V
17981.800	46.08	-25.50	46.66	24.92	54.00	7.92	H
14496.500	38.96	-28.59	42.46	25.09	54.00	15.04	V
14472.900	38.93	-28.59	42.46	25.06	54.00	15.07	H
11836.700	34.62	-31.85	39.05	27.42	54.00	19.38	H
11854.900	34.51	-31.85	39.05	27.31	54.00	19.49	H

802.11n-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17988.500	46.10	-25.50	46.66	24.94	54.00	7.90	H
17998.900	46.08	-25.50	46.66	24.92	54.00	7.92	H
14479.500	38.97	-28.59	42.46	25.10	54.00	15.03	H
14493.200	38.91	-28.59	42.46	25.04	54.00	15.09	V
5149.100	42.85	-27.61	33.67	36.79	54.00	11.15	H
5149.800	42.56	-27.61	33.67	36.50	54.00	11.44	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.300	46.06	-25.50	46.66	24.90	54.00	7.94	V
17998.300	46.00	-25.50	46.66	24.84	54.00	8.00	H
14480.500	39.20	-28.59	42.46	25.33	54.00	14.80	V
14490.500	38.96	-28.59	42.46	25.09	54.00	15.04	H
11904.900	34.51	-31.85	39.05	27.31	54.00	19.49	V
11845.000	34.50	-31.85	39.05	27.30	54.00	19.50	V

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.000	46.19	-25.50	46.66	25.03	54.00	7.81	V
17977.500	45.83	-25.50	46.66	24.67	54.00	8.17	H
14496.000	38.88	-28.59	42.46	25.01	54.00	15.12	H
14475.600	38.87	-28.59	42.46	25.00	54.00	15.13	V
11840.500	34.56	-31.85	39.05	27.36	54.00	19.44	H
11816.400	34.50	-31.85	39.05	27.30	54.00	19.50	V

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.300	46.07	-25.50	46.66	24.91	54.00	7.93	H
17995.000	45.90	-25.50	46.66	24.74	54.00	8.10	H
14482.200	38.91	-28.59	42.46	25.04	54.00	15.09	H
14487.700	38.88	-28.59	42.46	25.01	54.00	15.12	H
11845.000	34.65	-31.85	39.05	27.45	54.00	19.35	H
11816.400	34.60	-31.85	39.05	27.40	54.00	19.40	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.000	45.89	-25.50	46.66	24.73	54.00	8.11	V
17996.200	45.88	-25.50	46.66	24.72	54.00	8.12	H
14472.900	38.91	-28.59	42.46	25.04	54.00	15.09	H
14482.200	38.84	-28.59	42.46	24.97	54.00	15.16	H
11831.200	34.58	-31.85	39.05	27.38	54.00	19.42	H
11929.600	34.44	-31.48	39.09	26.83	54.00	19.56	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17974.700	45.98	-25.50	46.66	24.82	54.00	8.02	V
17995.600	45.94	-25.50	46.66	24.78	54.00	8.06	V
14495.400	39.26	-28.59	42.46	25.39	54.00	14.74	V
14499.200	38.88	-28.59	42.46	25.01	54.00	15.12	V
5350.000	39.81	-27.43	34.01	33.23	54.00	14.19	H
5354.100	39.75	-27.43	34.01	33.17	54.00	14.25	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17991.800	45.98	-25.50	46.66	24.82	54.00	8.02	H
17992.800	45.97	-25.50	46.66	24.81	54.00	8.03	H
14494.900	39.09	-28.59	42.46	25.22	54.00	14.91	V
14479.500	38.98	-28.59	42.46	25.11	54.00	15.02	V
5457.400	39.41	-27.18	34.17	32.42	54.00	14.59	H
5449.200	39.39	-27.18	34.17	32.40	54.00	14.61	H

Channel 120

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.000	46.04	-25.50	46.66	24.88	54.00	7.96	H
17997.800	45.91	-25.50	46.66	24.75	54.00	8.09	H
14483.900	39.22	-28.59	42.46	25.35	54.00	14.78	H
14486.600	39.14	-28.59	42.46	25.27	54.00	14.86	H
11822.400	34.66	-31.85	39.05	27.46	54.00	19.34	H
11815.800	34.63	-31.85	39.05	27.43	54.00	19.37	V

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.200	46.15	-25.50	46.66	24.99	54.00	7.85	H
17997.800	46.07	-25.50	46.66	24.91	54.00	7.93	V
14476.100	39.15	-28.59	42.46	25.28	54.00	14.85	V
14473.400	38.88	-28.59	42.46	25.01	54.00	15.12	H
11802.000	34.60	-31.85	39.05	27.40	54.00	19.40	V
11820.200	34.51	-31.85	39.05	27.31	54.00	19.49	H

802.11n-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.000	46.30	-25.50	46.66	25.14	54.00	7.70	H
17990.100	46.13	-25.50	46.66	24.97	54.00	7.87	H
14477.200	38.88	-28.59	42.46	25.01	54.00	15.12	V
14499.800	38.80	-28.59	42.46	24.93	54.00	15.20	H
5149.800	44.36	-27.61	33.67	38.30	54.00	9.64	H
5149.200	44.25	-27.61	33.67	38.19	54.00	9.75	H

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17991.800	46.09	-25.50	46.66	24.93	54.00	7.91	V
17998.900	46.05	-25.50	46.66	24.89	54.00	7.95	V
14477.200	38.97	-28.59	42.46	25.10	54.00	15.03	V
14492.600	38.91	-28.59	42.46	25.04	54.00	15.09	H
11810.900	34.67	-31.85	39.05	27.47	54.00	19.33	V
11839.500	34.43	-31.85	39.05	27.23	54.00	19.57	V

Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17981.300	46.08	-25.50	46.66	24.92	54.00	7.92	H
17997.200	45.86	-25.50	46.66	24.70	54.00	8.14	V
14480.500	39.24	-28.59	42.46	25.37	54.00	14.76	V
14488.800	39.00	-28.59	42.46	25.13	54.00	15.00	H
11843.300	34.66	-31.85	39.05	27.46	54.00	19.34	H
11840.000	34.45	-31.85	39.05	27.25	54.00	19.55	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.300	46.17	-25.50	46.66	25.01	54.00	7.83	H
17989.500	46.00	-25.50	46.66	24.84	54.00	8.00	H
14481.600	38.98	-28.59	42.46	25.11	54.00	15.02	H
14480.500	38.90	-28.59	42.46	25.03	54.00	15.10	V
5350.500	41.20	-27.43	34.01	34.62	54.00	12.80	H
5350.700	41.10	-27.43	34.01	34.52	54.00	12.90	H

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.500	46.09	-25.50	46.66	24.93	54.00	7.91	H
17995.000	46.09	-25.50	46.66	24.93	54.00	7.91	H
14471.800	39.11	-28.59	42.46	25.24	54.00	14.89	H
14486.600	39.06	-28.59	42.46	25.19	54.00	14.94	H
5456.600	39.58	-27.18	34.17	32.59	54.00	14.42	H
5451.900	39.43	-27.18	34.17	32.44	54.00	14.57	H

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17976.900	46.16	-25.50	46.66	25.00	54.00	7.84	H
17987.900	45.99	-25.50	46.66	24.83	54.00	8.01	H
14481.100	39.07	-28.59	42.46	25.20	54.00	14.93	V
14496.000	39.06	-28.59	42.46	25.19	54.00	14.94	H
11821.900	34.55	-31.85	39.05	27.35	54.00	19.45	H
11805.400	34.47	-31.85	39.05	27.27	54.00	19.53	V

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.500	46.05	-25.50	46.66	24.89	54.00	7.95	V
17991.800	46.03	-25.50	46.66	24.87	54.00	7.97	H
14470.600	39.28	-28.59	42.46	25.41	54.00	14.72	V
14471.800	39.02	-28.59	42.46	25.15	54.00	14.98	V
11819.100	34.43	-31.85	39.05	27.23	54.00	19.57	H
11996.200	34.40	-31.48	39.09	26.79	54.00	19.60	H

PEAK Results:

802.11a

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	57.33	-25.50	46.66	36.17	74.00	16.67	H
17990.100	57.10	-25.50	46.66	35.94	74.00	16.90	H
14579.500	50.66	-27.29	41.90	36.05	68.30	17.64	V
14411.800	50.47	-28.59	42.46	36.60	68.30	17.83	H
5147.600	57.12	-27.61	33.67	51.06	74.00	16.88	H
5149.400	55.95	-27.61	33.67	49.89	74.00	18.05	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.600	58.14	-25.50	46.66	36.98	74.00	15.86	V
17965.900	57.36	-25.50	46.66	36.20	74.00	16.64	H
14398.000	50.99	-28.59	42.46	37.12	68.30	17.31	V
14436.000	50.66	-28.59	42.46	36.79	68.30	17.64	V
11986.300	45.85	-31.48	39.09	38.24	74.00	28.15	H
11946.100	45.83	-31.48	39.09	38.22	74.00	28.17	H

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17988.500	57.03	-25.50	46.66	35.87	74.00	16.97	H
17983.000	56.97	-25.50	46.66	35.81	74.00	17.03	H
14220.400	50.79	-28.99	42.00	37.77	68.30	17.51	V
14502.000	50.77	-28.59	42.46	36.90	68.30	17.53	V
11834.500	45.87	-31.85	39.05	38.67	74.00	28.13	V
11837.800	45.86	-31.85	39.05	38.66	74.00	28.14	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17954.900	57.16	-25.50	46.66	36.00	74.00	16.84	H
17989.000	56.90	-25.50	46.66	35.74	74.00	17.10	H
14330.400	51.79	-28.42	42.34	37.87	68.30	16.51	H
14420.000	50.94	-28.59	42.46	37.07	68.30	17.36	V
11528.100	46.47	-32.26	38.84	39.90	74.00	27.53	V
11384.600	46.11	-32.42	38.79	39.74	74.00	27.89	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.000	57.99	-25.50	46.66	36.83	74.00	16.01	H
17985.700	57.66	-25.50	46.66	36.50	74.00	16.34	H
14500.400	51.14	-28.59	42.46	37.27	68.30	17.16	H
14523.500	50.83	-28.59	42.46	36.96	68.30	17.47	H
11848.200	46.14	-31.85	39.05	38.94	74.00	27.86	V
11921.400	46.12	-31.48	39.09	38.51	74.00	27.88	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17907.000	57.69	-25.50	46.66	36.53	74.00	16.31	V
17971.400	57.23	-25.50	46.66	36.07	74.00	16.77	H
14307.900	50.94	-28.42	42.34	37.02	68.30	17.36	V
14388.100	50.86	-28.42	42.34	36.94	68.30	17.44	V
5350.800	53.60	-27.43	34.01	47.02	74.00	20.40	H
5350.400	52.81	-27.43	34.01	46.23	74.00	21.19	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	58.20	-25.50	46.66	37.04	74.00	15.80	H
17992.800	56.87	-25.50	46.66	35.71	74.00	17.13	H
14390.400	51.38	-28.42	42.34	37.46	68.30	16.92	V
14516.900	51.13	-28.59	42.46	37.26	68.30	17.17	V
5458.500	51.68	-27.18	34.17	44.69	74.00	22.32	H
5469.200	54.82	-27.18	34.17	47.83	68.30	13.48	H

Channel 120

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.000	57.39	-25.50	46.66	36.23	74.00	16.61	V
17985.700	57.29	-25.50	46.66	36.13	74.00	16.71	H
14469.500	51.20	-28.59	42.46	37.33	68.30	17.10	H
14736.900	50.99	-28.32	41.35	37.97	68.30	17.31	H
11857.000	46.75	-31.85	39.05	39.55	74.00	27.25	H
11718.500	46.14	-31.99	38.98	39.15	74.00	27.86	V

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.800	57.25	-25.50	46.66	36.09	74.00	16.75	H
17986.800	57.18	-25.50	46.66	36.02	74.00	16.82	V
14381.000	50.98	-28.42	42.34	37.06	68.30	17.32	V
14327.600	50.91	-28.42	42.34	36.99	68.30	17.39	V
5725.400	54.88	-27.07	34.31	47.64	68.30	13.42	H
5726.900	53.92	-27.07	34.31	46.68	68.30	14.38	H

802.11n-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17972.000	58.42	-25.50	46.66	37.26	74.00	15.58	H
17960.400	57.72	-25.50	46.66	36.56	74.00	16.28	V
14415.600	51.17	-28.59	42.46	37.30	68.30	17.13	V
14381.500	50.91	-28.42	42.34	36.99	68.30	17.39	H
5149.100	62.63	-27.61	33.67	56.57	74.00	11.37	H
5144.900	61.52	-27.61	33.67	55.46	74.00	12.48	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17866.900	57.84	-25.50	46.66	36.68	74.00	16.16	V
17981.300	57.62	-25.50	46.66	36.46	74.00	16.38	H
14632.400	51.46	-27.29	41.90	36.85	68.30	16.84	V
14456.400	50.79	-28.59	42.46	36.92	68.30	17.51	H
11862.500	46.39	-31.85	39.05	39.19	74.00	27.61	V
11819.600	46.21	-31.85	39.05	39.01	74.00	27.79	V

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.500	57.85	-25.50	46.66	36.69	74.00	16.15	V
17992.300	57.49	-25.50	46.66	36.33	74.00	16.51	H
14404.600	51.51	-28.59	42.46	37.64	68.30	16.79	H
14290.200	51.33	-28.42	42.34	37.41	68.30	16.97	H
11585.400	46.30	-32.31	38.91	39.71	74.00	27.70	V
11821.300	45.97	-31.85	39.05	38.77	74.00	28.03	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.000	57.41	-25.50	46.66	36.25	74.00	16.59	H
17943.900	57.14	-25.50	46.66	35.98	74.00	16.86	V
14493.800	51.40	-28.59	42.46	37.53	74.00	22.60	V
14434.400	50.78	-28.59	42.46	36.91	68.30	17.52	V
11813.000	46.48	-31.85	39.05	39.28	74.00	27.52	H
11983.000	46.18	-31.48	39.09	38.57	74.00	27.82	V

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.400	57.52	-25.50	46.66	36.36	74.00	16.48	H
17983.500	57.39	-25.50	46.66	36.23	74.00	16.61	H
14399.700	51.98	-28.59	42.46	38.11	68.30	16.32	V
14491.000	50.83	-28.59	42.46	36.96	74.00	23.17	H
11709.100	46.61	-31.99	38.98	39.62	74.00	27.39	V
11827.400	45.91	-31.85	39.05	38.71	74.00	28.09	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17984.000	57.73	-25.50	46.66	36.57	74.00	16.27	V
17975.200	57.68	-25.50	46.66	36.52	74.00	16.32	H
14371.600	51.56	-28.42	42.34	37.64	68.30	16.74	V
14441.000	51.26	-28.59	42.46	37.39	68.30	17.04	H
5350.600	56.12	-27.43	34.01	49.54	74.00	17.88	V
5350.100	54.95	-27.43	34.01	48.37	74.00	19.05	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.700	57.09	-25.50	46.66	35.93	74.00	16.91	H
17998.300	57.00	-25.50	46.66	35.84	74.00	17.00	H
14355.100	51.13	-28.42	42.34	37.21	68.30	17.17	V
14132.400	51.04	-28.99	42.00	38.02	68.30	17.26	V
5445.600	51.69	-27.18	34.17	44.70	74.00	22.31	H
5468.900	53.65	-27.18	34.17	46.66	68.30	14.65	H

Channel 120

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17950.500	57.70	-25.50	46.66	36.54	74.00	16.30	V
17998.900	57.36	-25.50	46.66	36.20	74.00	16.64	V
14681.900	51.59	-28.32	41.35	38.57	68.30	16.71	H
14613.600	51.52	-27.29	41.90	36.91	68.30	16.78	V
11939.500	46.23	-31.48	39.09	38.62	74.00	27.77	V
11896.600	46.12	-31.85	39.05	38.92	74.00	27.88	V

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17984.600	57.64	-25.50	46.66	36.48	74.00	16.36	V
17991.200	57.60	-25.50	46.66	36.44	74.00	16.40	V
14396.400	51.03	-28.59	42.46	37.16	68.30	17.27	H
14476.100	50.89	-28.59	42.46	37.02	74.00	23.11	V
5728.900	55.44	-27.07	34.31	48.20	68.30	12.86	H
5727.100	55.39	-27.07	34.31	48.15	68.30	12.91	H

802.11n-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.500	57.74	-25.50	46.66	36.58	74.00	16.26	H
17990.100	57.59	-25.50	46.66	36.43	74.00	16.41	H
14389.200	51.41	-28.42	42.34	37.49	68.30	16.89	H
14619.100	51.11	-27.29	41.90	36.50	68.30	17.19	H
5148.400	61.80	-27.61	33.67	55.74	74.00	12.20	H
5145.900	61.50	-27.61	33.67	55.44	74.00	12.50	H

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17968.100	57.71	-25.50	46.66	36.55	74.00	16.29	H
17936.800	57.21	-25.50	46.66	36.05	74.00	16.79	V
14405.200	50.96	-28.59	42.46	37.09	68.30	17.34	H
14771.000	50.96	-28.32	41.35	37.94	68.30	17.34	V
11808.600	46.39	-31.85	39.05	39.19	74.00	27.61	H
11828.500	46.36	-31.85	39.05	39.16	74.00	27.64	H

Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.600	57.84	-25.50	46.66	36.68	74.00	16.16	V
17996.200	57.39	-25.50	46.66	36.23	74.00	16.61	V
14309.000	51.00	-28.42	42.34	37.08	68.30	17.30	V
14655.500	50.72	-27.29	41.90	36.11	68.30	17.58	H
11904.900	46.81	-31.85	39.05	39.61	74.00	27.19	V
11849.400	46.17	-31.85	39.05	38.97	74.00	27.83	V

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17983.500	58.24	-25.50	46.66	37.08	74.00	15.76	H
17996.700	57.42	-25.50	46.66	36.26	74.00	16.58	V
14590.500	51.49	-27.29	41.90	36.88	68.30	16.81	V
14461.300	50.88	-28.59	42.46	37.01	68.30	17.42	V
5350.000	58.31	-27.43	34.01	51.73	74.00	15.69	H
5350.400	58.19	-27.43	34.01	51.61	74.00	15.81	H

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17953.200	57.93	-25.50	46.66	36.77	74.00	16.07	H
17989.500	57.47	-25.50	46.66	36.31	74.00	16.53	H
14389.200	51.41	-28.42	42.34	37.49	68.30	16.89	V
14322.100	51.22	-28.42	42.34	37.30	68.30	17.08	H
5408.600	52.28	-27.36	34.09	45.56	74.00	21.72	H
5466.400	57.87	-27.18	34.17	50.88	68.30	10.43	H

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.700	57.97	-25.50	46.66	36.81	74.00	16.03	H
17997.200	57.48	-25.50	46.66	36.32	74.00	16.52	H
14477.800	51.41	-28.59	42.46	37.54	74.00	22.59	H
14453.000	50.95	-28.59	42.46	37.08	68.30	17.35	V
11567.200	46.75	-32.31	38.91	40.16	74.00	27.25	V
11738.800	46.30	-31.99	38.98	39.31	74.00	27.70	V

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17973.600	57.82	-25.50	46.66	36.66	74.00	16.18	H
17970.300	57.67	-25.50	46.66	36.51	74.00	16.33	V
14379.400	51.79	-28.42	42.34	37.87	68.30	16.51	H
14496.500	50.74	-28.59	42.46	36.87	74.00	23.26	H
5725.000	55.57	-27.07	34.31	48.33	68.30	12.73	H
5726.800	54.57	-27.07	34.31	47.33	68.30	13.73	H

A.7. AC Powerline Conducted Emission (150kHz- 30MHz)

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.10dB, k=2.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger AE2		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.41	Fig.42	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger AE2		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.41	Fig.42	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.

Conclusion: PASS

Test graphs as below:

Traffic:

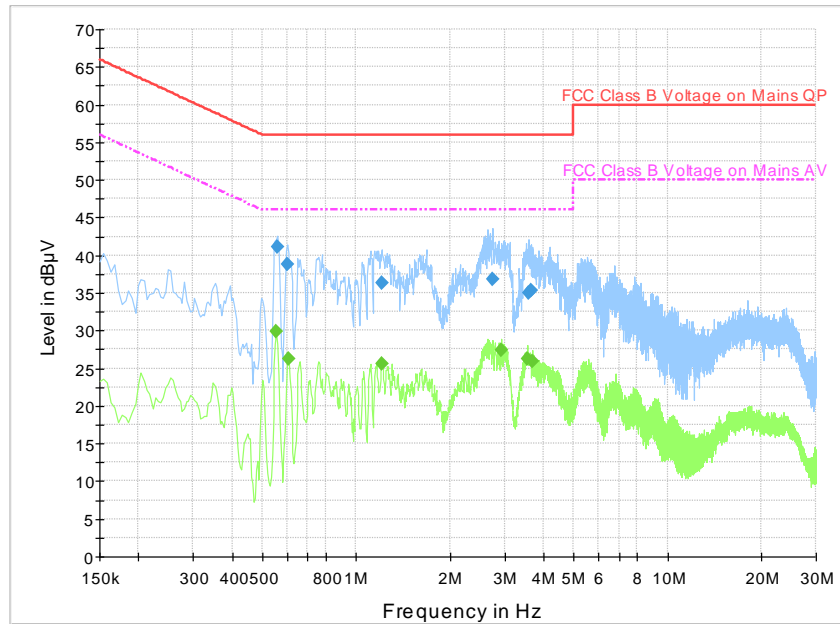


Fig.41 Conducted Emission (802.11a, Ch36, TX)

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.559500	41.1	GND	N	10.0	14.9	56.0
0.600000	38.8	GND	L1	9.9	17.2	56.0
1.207500	36.3	GND	N	10.0	19.7	56.0
2.746500	36.8	GND	N	10.0	19.2	56.0
3.588000	35.1	GND	N	10.1	20.9	56.0
3.651000	35.3	GND	L1	10.1	20.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.555000	30.0	GND	L1	10.0	16.0	46.0
0.604500	26.2	GND	N	9.9	19.8	46.0
1.207500	25.7	GND	N	10.0	20.3	46.0
2.926500	27.5	GND	L1	10.0	18.5	46.0
3.561000	26.3	GND	L1	10.1	19.7	46.0
3.678000	25.9	GND	N	10.1	20.1	46.0

Idle:

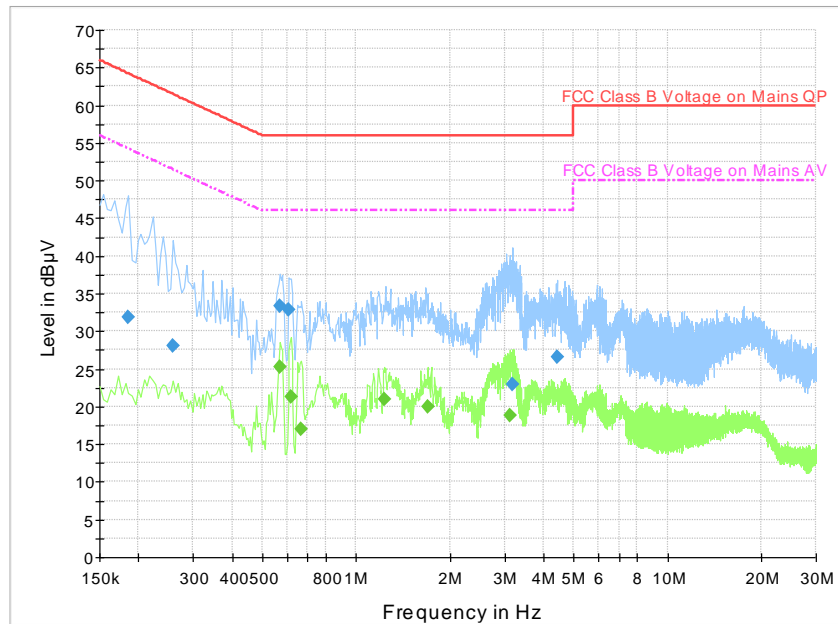


Fig.42 Conducted Emission(802.11a, IDLE)

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.186000	31.8	GND	L1	10.0	32.4	64.2
0.258000	28.1	GND	L1	10.0	33.4	61.5
0.568500	33.3	GND	L1	10.0	22.7	56.0
0.609000	32.8	GND	N	9.9	23.2	56.0
3.187500	22.9	GND	L1	10.1	33.1	56.0
4.411500	26.7	GND	L1	10.1	29.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.568500	25.2	GND	L1	10.0	20.8	46.0
0.618000	21.4	GND	L1	9.9	24.6	46.0
0.667500	16.9	GND	L1	9.9	29.1	46.0
1.230000	20.9	GND	N	10.0	25.1	46.0
1.693500	20.0	GND	L1	10.0	26.0	46.0
3.111000	18.8	GND	L1	10.1	27.2	46.0

A.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
-------------------------	---------

Measurement Result:

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.43	17.23	P
	5200 MHz	Fig.44	17.22	P
	5240 MHz	Fig.45	17.36	P
802.11n HT20	5180 MHz	Fig.46	18.13	P
	5200 MHz	Fig.47	18.11	P
	5240 MHz	Fig.48	18.12	P
802.11n HT40	5190 MHz	Fig.49	36.13	P
	5230 MHz	Fig.50	36.16	P

Conclusion: PASS

Test graphs as below:



Fig.43 99% Occupied bandwidth (802.11a, 5180MHz)



Fig.44 99% Occupied bandwidth (802.11a, 5200MHz)

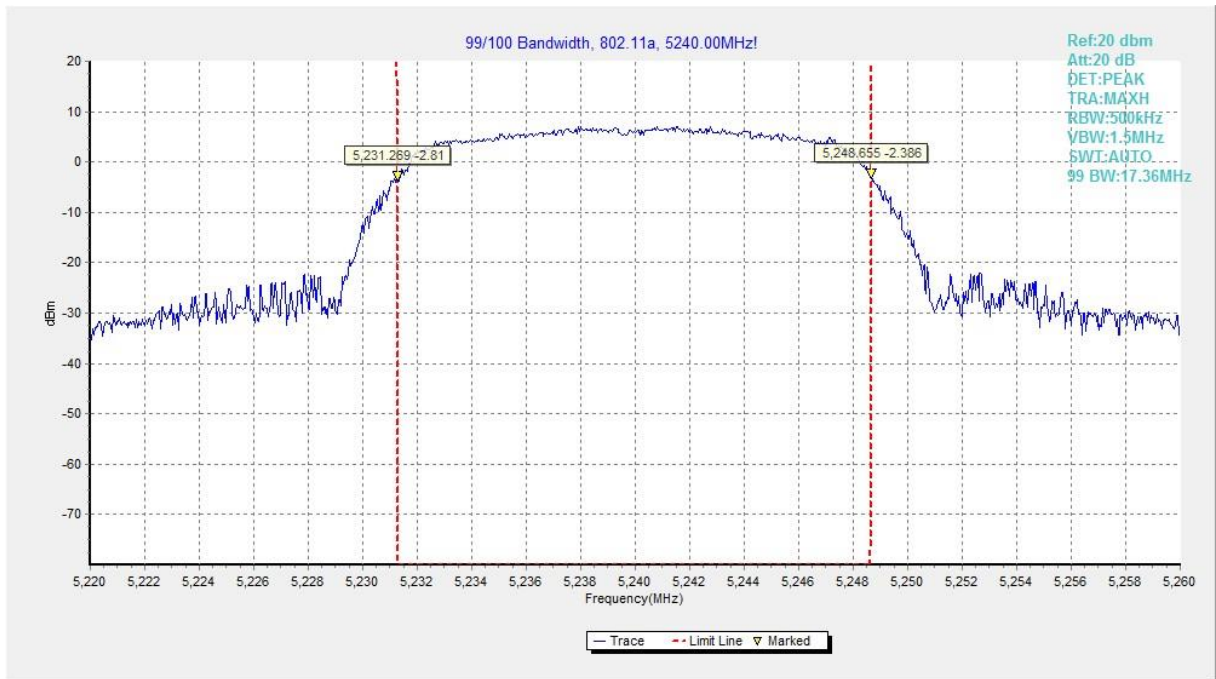


Fig.45 99% Occupied bandwidth (802.11a, 5240MHz)

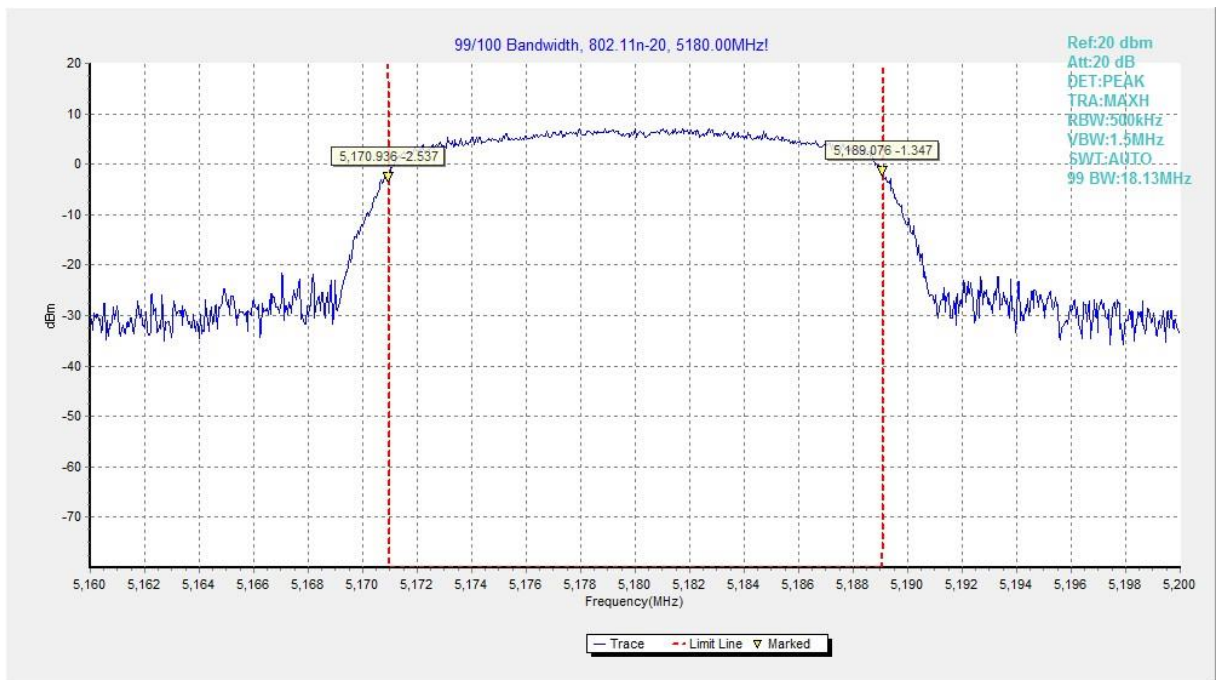


Fig.46 99% Occupied bandwidth (802.11n-HT20, 5180MHz)

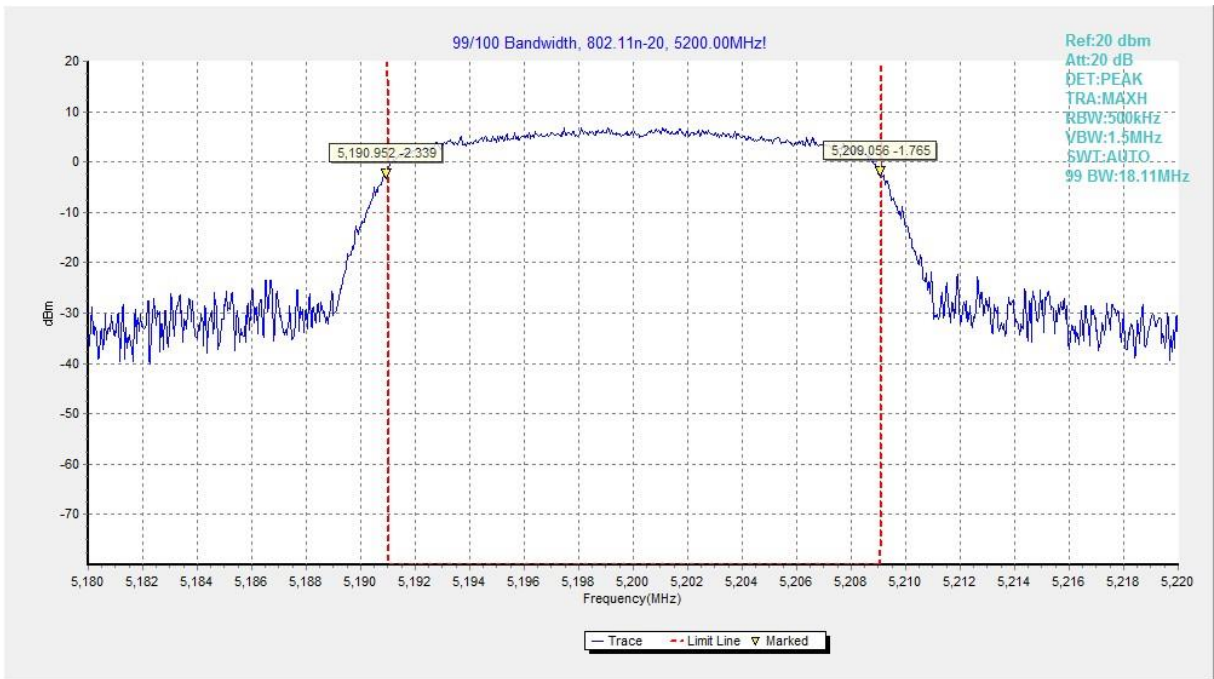


Fig.47 99% Occupied bandwidth (802.11n-HT20, 5200MHz)

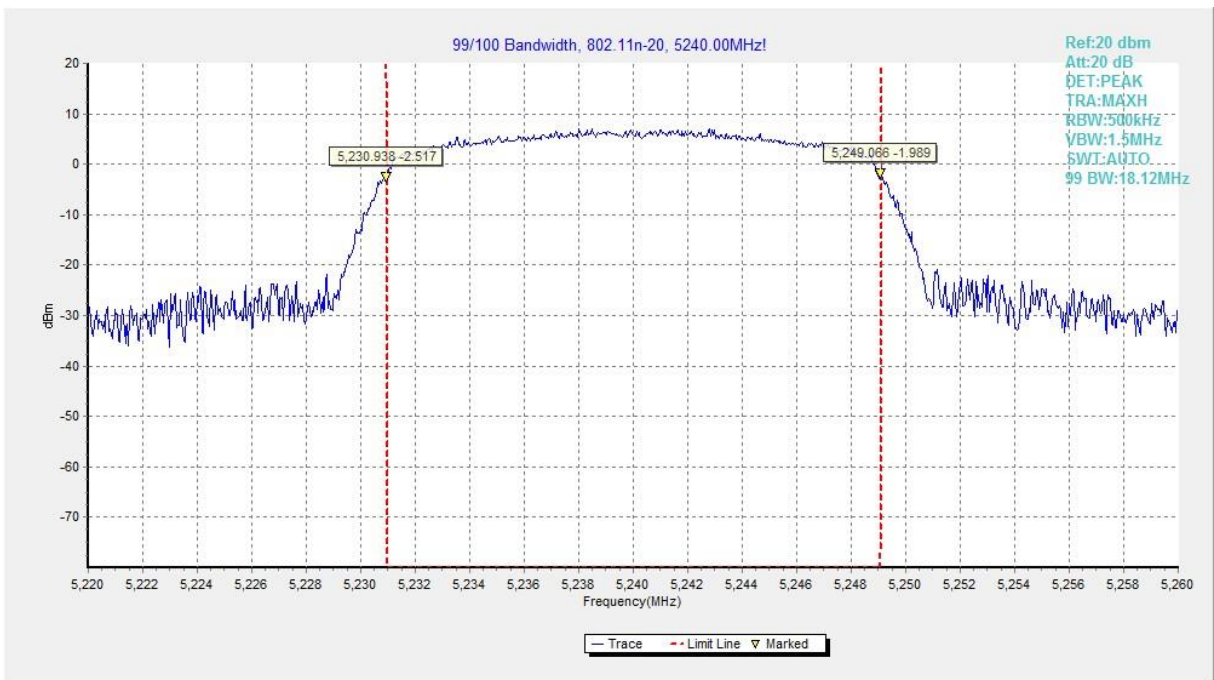


Fig.48 99% Occupied bandwidth (802.11n-HT20, 5240MHz)

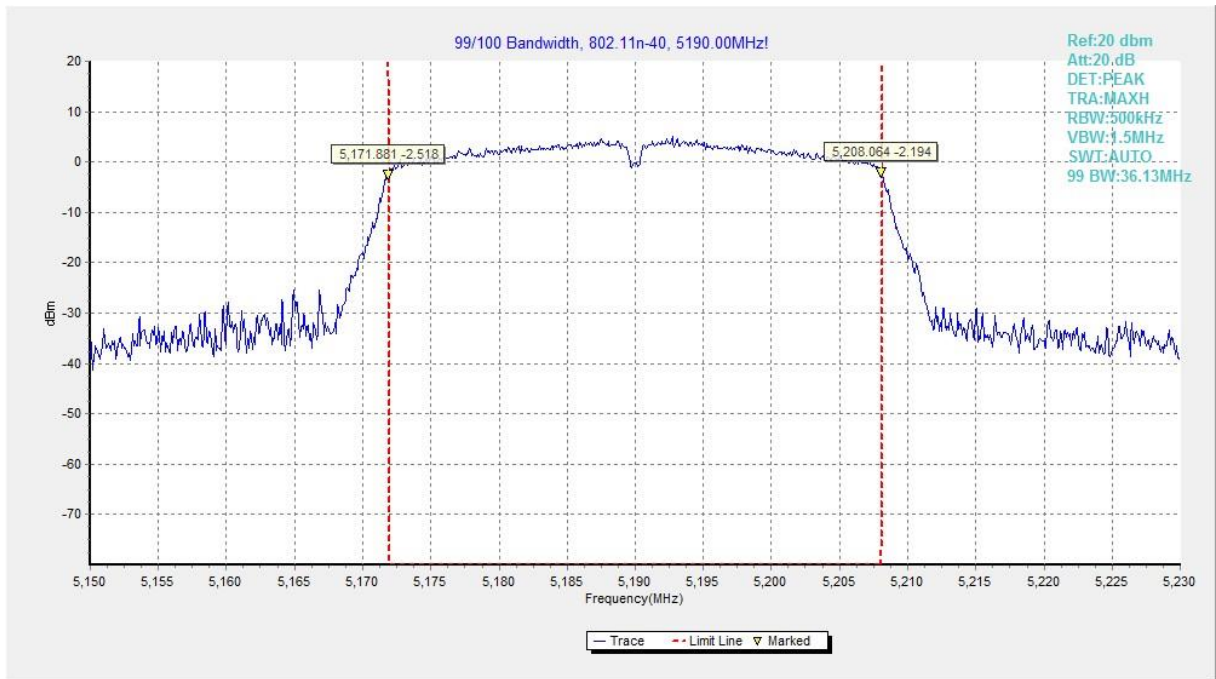


Fig.49 99% Occupied bandwidth (802.11n-HT40, 5190MHz)

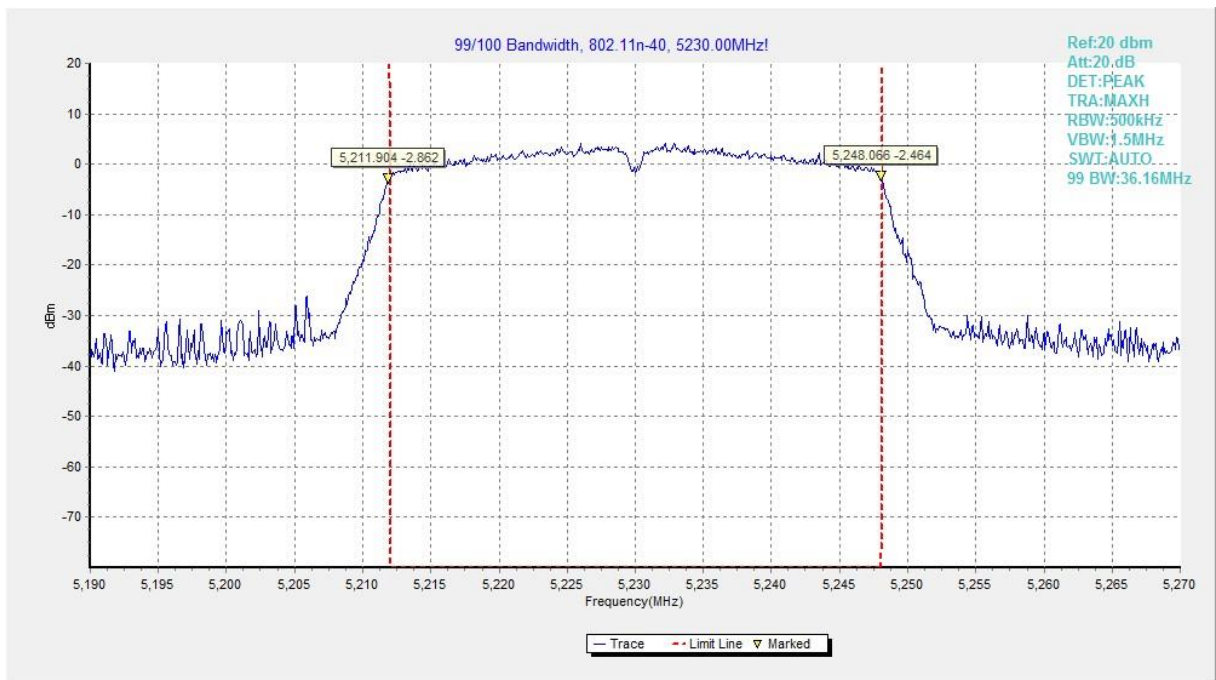


Fig.50 99% Occupied bandwidth (802.11n-HT40, 5230MHz)




A.9. Power control

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

ANNEX B: EUT parameters

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

ANNEX C: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p>  	
<hr/> <h3>Certificate of Accreditation to ISO/IEC 17025:2017</h3> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p>Telecommunication Technology Labs, CAICT Beijing China</p>	
<p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p>	
<p>Electromagnetic Compatibility & Telecommunications</p>	
<p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p>	
<hr/> <p>2020-09-29 through 2021-09-30 <i>Effective Dates</i></p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

*** END OF REPORT BODY ***