



**FCC PART 15
TEST REPORT
No. I14Z47754-SRD02**

for

TCT Mobile Limited

GSM Quad-band / UMTS Quad-band / LTE 6 bands mobile phone

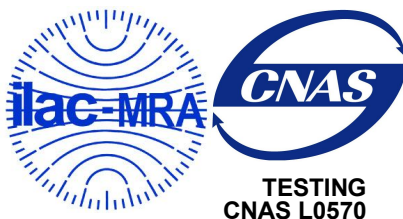
Model Name: 8030B

With

Hardware Version: BAB33S001DCX

Software Version: vE1Z

Issued Date: 2014-11-15



Note:

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

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1. TEST LATORATORY

1.1. Testing Location

Location 1:CTTL(Huayuan North Road)

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

Location 2:CTTL(Shouxiang)

Address: No. 51 Shouxiang Science Building, Xueyuan Road,
Haidian District, Beijing, P. R. China100191

1.2. Project data

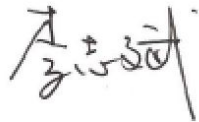
Testing Start Date: 2014-09-22

Testing End Date: 2014-11-14

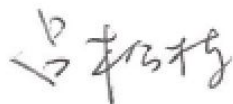
1.3. Signature



Xu Zhongfei
(Prepared this test report)



Li Zhibin
(Reviewed this test report)



Lv Songdong
(Approved this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

Company Name: TCT Mobile Limited
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Telephone: 0086-21-51798260
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2.2. Manufacturer Information

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Pudong Area Shanghai, P.R. China. 201203
Contact Person: Gong Zhizhou
Telephone: 0086-21-51798260
Fax: 0086-21-61460602

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY

EQUIPMENT(AE)

3.1. About EUT

Description	GSM Quad-band / UMTS Quad-band / LTE 6 bands mobile phone
Model name	8030B
FCC ID	RAD492
IC ID	/
WLAN Frequency Range	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
MAX Conducted Power	13.54 dBm(OFDM)
Extreme Temperature	-20/+55°C
Extreme vol. Limits	3.5VDC to 4.25VDC (nominal: 3.8VDC)

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

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT5	014107000900123	BAB33S001DCX	vE1Z
EUT7	014107000900420	BAB33S001DCX	vE1Z

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	Type	SN
AE1	Dummy battery	CAC3100002C2	/
AE2	Charger	CBA0045AG0C1	/

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

3.4. General Description

The Equipment Under Test (EUT) is a model of GSM Quad-band / UMTS Quad-band / LTE 6 bands mobile phone with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test.



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	2014
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2009
UNII: KDB 789033	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E	2012-09

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
Power Spectral Density	15.407	/	P
Occupied 26dB Bandwidth	15.403	/	P
Band edge compliance	15.209	/	P
Transmitter spurious emissions radiated	15.407	/	P
Spurious emissions radiated < 30 MHz	15.407	/	P
Spurious emissions conducted < 30 MHz	15.407	/	P
Peak Excursion	15.407	/	P
Frequency Stability	15.407	/	NA
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 manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

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

6.3. Test Conditions

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

Temperature	26°C
Voltage	3.8V
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2014-07-08	2015-07-07
2	Test Receiver	ESS	847151/015	Rohde & Schwarz	2013-11-29	2014-11-28
3	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2014-4-15	2015-4-14
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

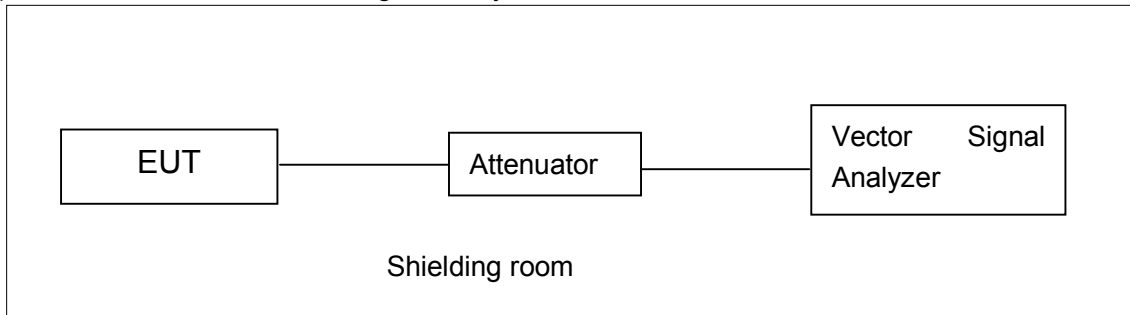
No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Test Receiver	ESU26	100376	Rohde & Schwarz	2013-11-6	2014-11-5
2	BiLog Antenna	VULB9163	9163-514	Schwarzbeck	2011-11-11	2014-11-10
3	Dual-Ridge Waveguide Horn Antenna	3117	00119024	ETS-Lindgren	2014-4-20	2017-4-19
4	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2012-7-1	2015-06-30
5	Loop antenna	HFH2-Z2	829324/007	Rohde & Schwarz	2011-12-21	2014-12-20
6	Semi-anechoic chamber	/	CT000332-1074	Frankonia German	/	/

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

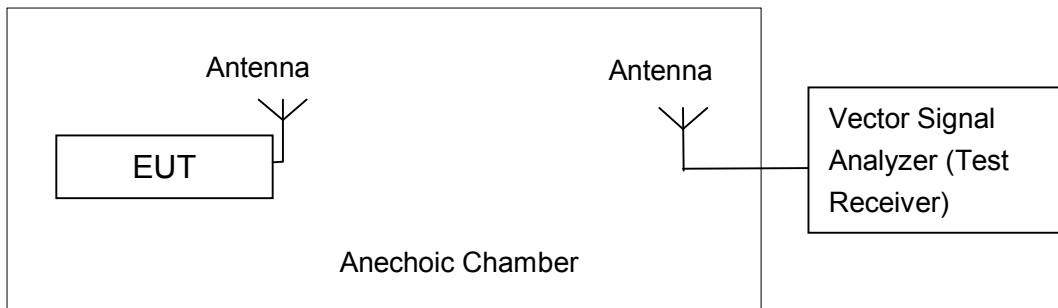


A.1.2. Radiated Emission Measurements

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-1 is made according to KDB 789033

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)	13.11	11.23	13.51	13.32	11.75	11.11	13.16	12.89
	5200MHz (Ch40)	/	/	13.39	/	/	/	/	/
	5240MHz(Ch48)	/	/	13.54	/	/	/	/	/
	5260MHz(Ch52)	/	/	12.67	/	/	/	/	/
	5280MHz(Ch56)	/	/	13.07	/	/	/	/	/
	5320MHz(Ch64)	/	/	13.37	/	/	/	/	/
	5500MHz(Ch100)	/	/	12.64	/	/	/	/	/
	5580MHz(Ch116)	/	/	13.33	/	/	/	/	/
	5700MHz(Ch140)	/	/	13.23	/	/	/	/	/

The data rate 12Mbps is selected as worse condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Channel	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT20)	5180MHz (Ch36)	12.18	11.83	12.23	12.35	11.66	12.28	12.58	12.04
	5200MHz (Ch40)	/	/	/	/	/	/	12.23	/
	5240MHz(Ch48)	/	/	/	/	/	/	12.70	/
	5260MHz(Ch52)	/	/	/	/	/	/	11.66	/
	5280MHz(Ch56)	/	/	/	/	/	/	12.26	/
	5320MHz(Ch64)	/	/	/	/	/	/	11.59	/
	5500MHz(Ch100)	/	/	/	/	/	/	11.72	/
	5580MHz(Ch116)	/	/	/	/	/	/	12.09	/
	5700MHz(Ch140)	/	/	/	/	/	/	12.41	/

The data rate MCS6 is selected as worse condition, and the following cases are performed with this condition.



802.11n-HT40 mode

Mode	Channel	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT40)	5190MHz (Ch38)	12.04	11.86	11.81	11.51	11.97	12.13	12.89	12.13
	5230MHz(Ch46)	/	/	/	/	/	/	12.35	/
	5270MHz(Ch54)	/	/	/	/	/	/	11.74	/
	5310MHz(Ch62)	/	/	/	/	/	/	11.59	/
	5510MHz(Ch102)	/	/	/	/	/	/	12.36	/
	5550MHz(Ch110)	/	/	/	/	/	/	11.55	/
	5670MHz(Ch134)	/	/	/	/	/	/	12.53	/

The data rate MCS6 is selected as worse condition, and the following cases are performed with this condition.

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
-------------------------	--------

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 SA-1 is made according to KDB 789033

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Results:

Mode	Channel	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180 MHz	6.58	P
	5200 MHz	6.06	P
	5240 MHz	6.62	P
	5260 MHz	6.51	P
	5280 MHz	6.10	P
	5320 MHz	6.43	P
	5500 MHz	6.65	P
	5580 MHz	6.65	P
802.11n HT20	5180 MHz	4.69	P
	5200 MHz	4.35	P
	5240 MHz	5.06	P
	5260 MHz	4.15	P
	5280 MHz	4.97	P
	5320 MHz	4.62	P
	5500 MHz	5.09	P
	5580 MHz	4.62	P
802.11n HT40	5190 MHz	1.69	P
	5230 MHz	2.05	P
	5270 MHz	1.64	P
	5310 MHz	1.55	P
	5510 MHz	1.92	P
	5550 MHz	1.62	P
	5670 MHz	2.40	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
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Measurement Result:

Mode	Channel	Occupied 26dB Bandwidth (kHz)		conclusion
802.11a	5180 MHz	Fig.1	20750	P
	5200 MHz	Fig.2	20600	P
	5240 MHz	Fig.3	20650	P
	5260 MHz	Fig.4	20700	P
	5280 MHz	Fig.5	20850	P
	5320 MHz	Fig.6	20750	P
	5500 MHz	Fig.7	20850	P
	5580 MHz	Fig.8	20850	P
802.11n HT20	5700 MHz	Fig.9	20650	P
	5180 MHz	Fig.10	21450	P
	5200 MHz	Fig.11	21400	P
	5240 MHz	Fig.12	21550	P
	5260 MHz	Fig.13	21500	P
	5280 MHz	Fig.14	21500	P
	5320 MHz	Fig.15	21450	P
	5500 MHz	Fig.16	21350	P
802.11n HT40	5580 MHz	Fig.17	21400	P
	5700 MHz	Fig.18	21400	P
	5190 MHz	Fig.19	40960	P
	5230 MHz	Fig.20	40880	P
	5270 MHz	Fig.21	41120	P
	5310 MHz	Fig.22	40880	P
	5510 MHz	Fig.23	40720	P
5550 MHz	Fig.24	40960	P	
5670 MHz	Fig.25	40480	P	

Conclusion: PASS

Test graphs as below:



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

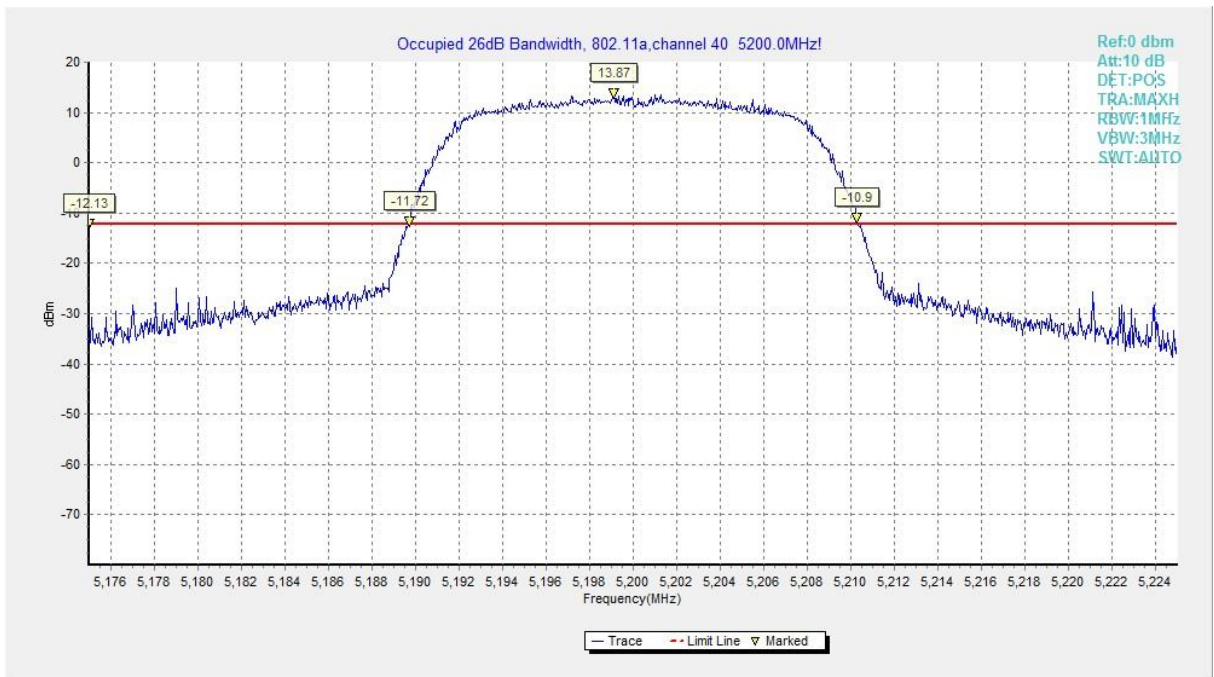


Fig. 2 Occupied 26dB Bandwidth (802.11a, 5200MHz)

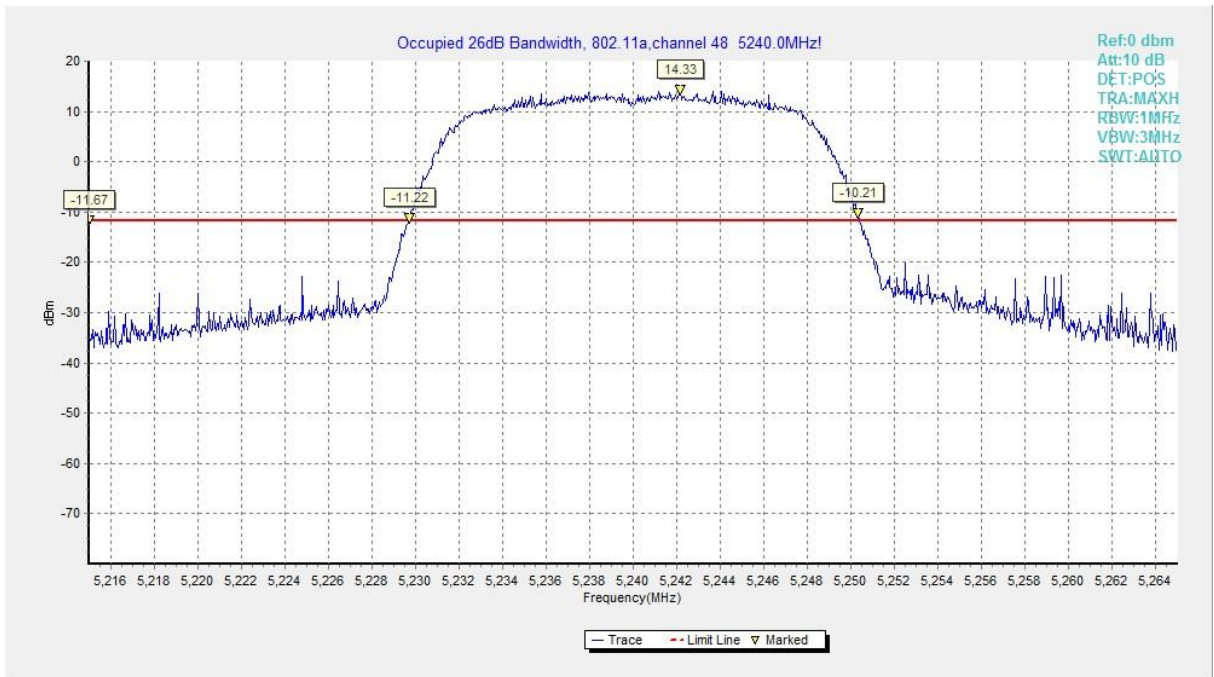


Fig. 3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

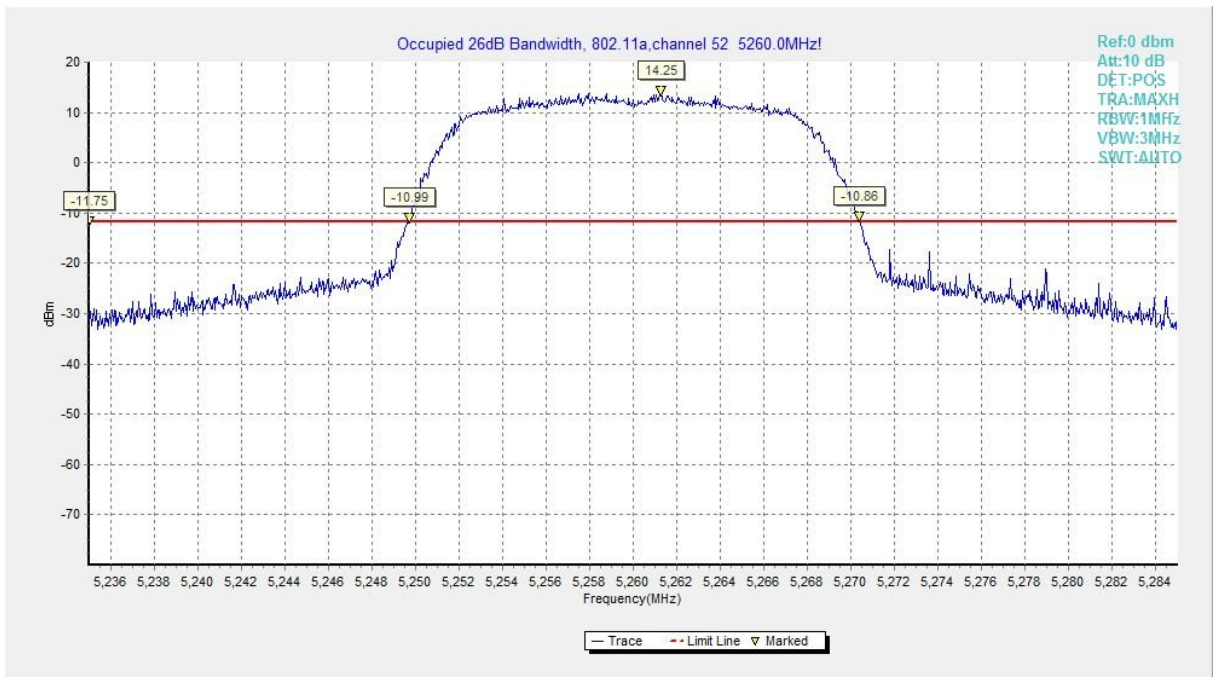


Fig. 4 Occupied 26dB Bandwidth (802.11a, 5260MHz)



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

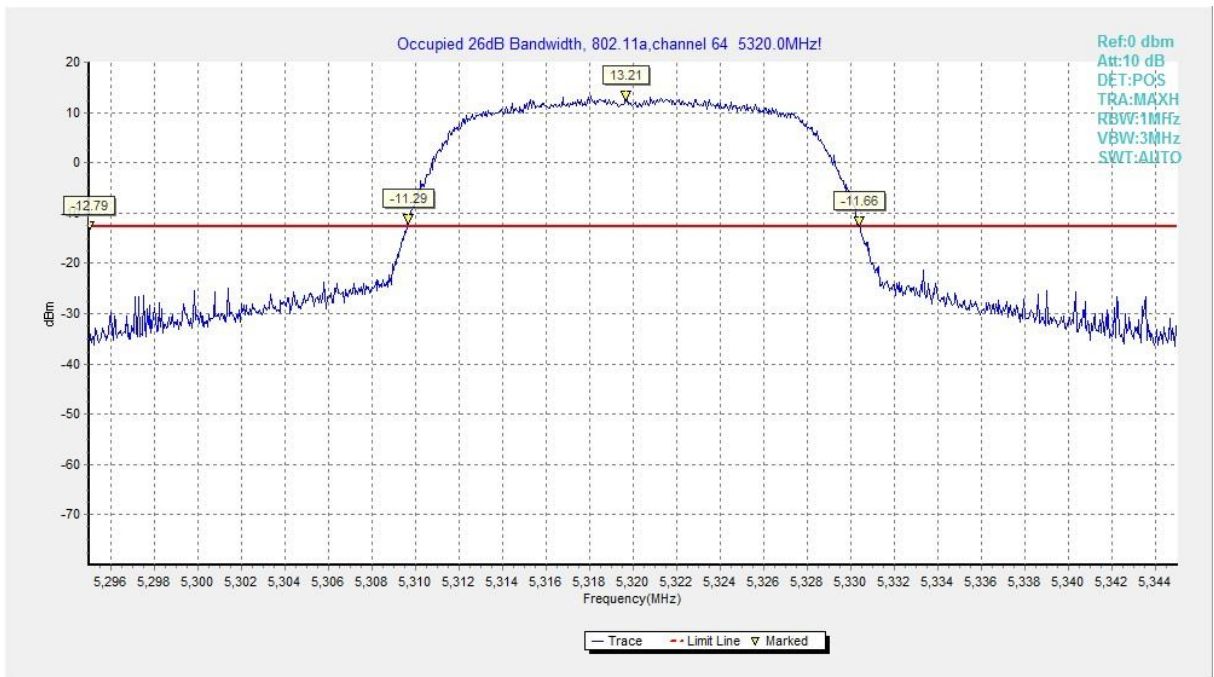


Fig. 6 Occupied 26dB Bandwidth (802.11a, 5320MHz)



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

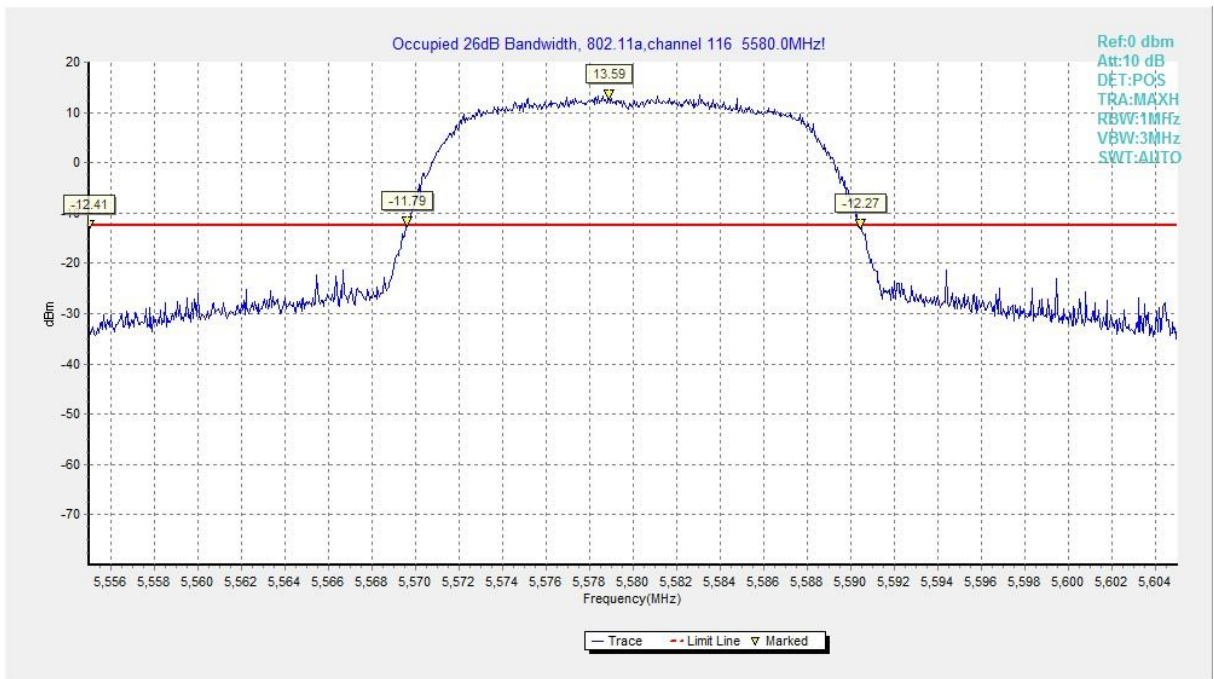


Fig. 8 Occupied 26dB Bandwidth (802.11a, 5600MHz)

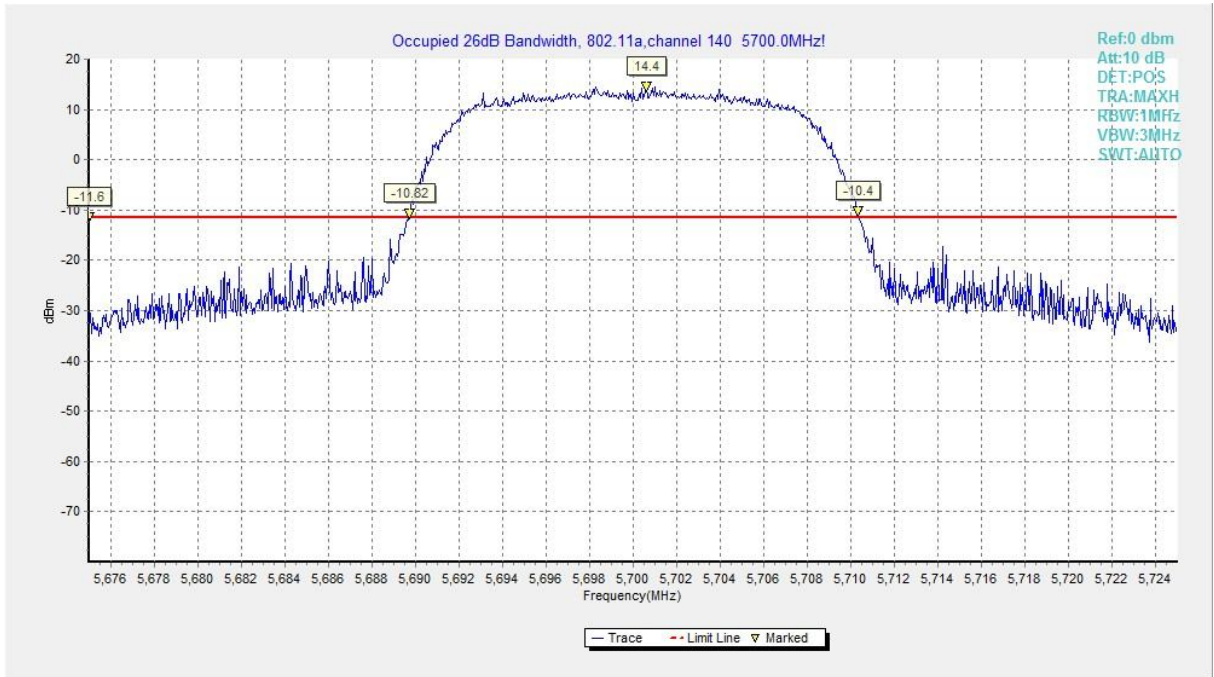


Fig. 9 Occupied 26dB Bandwidth (802.11a, 5700MHz)

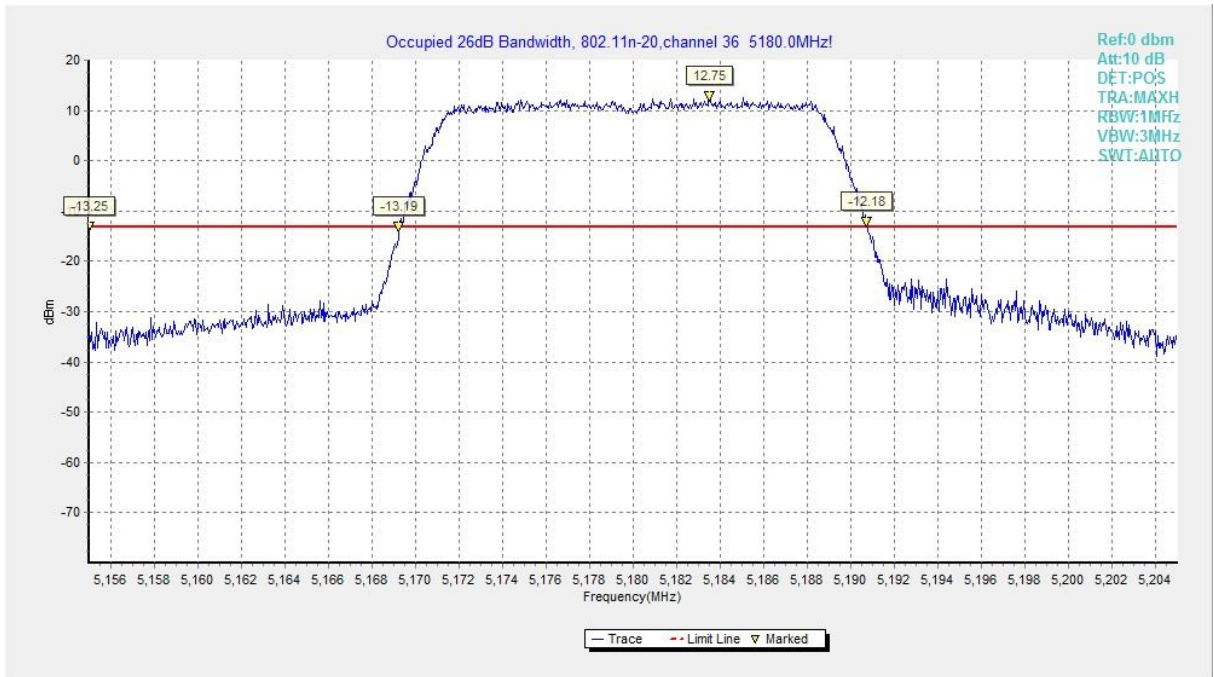


Fig. 10 Occupied 26dB Bandwidth (802.11n-HT20, 5180MHz)

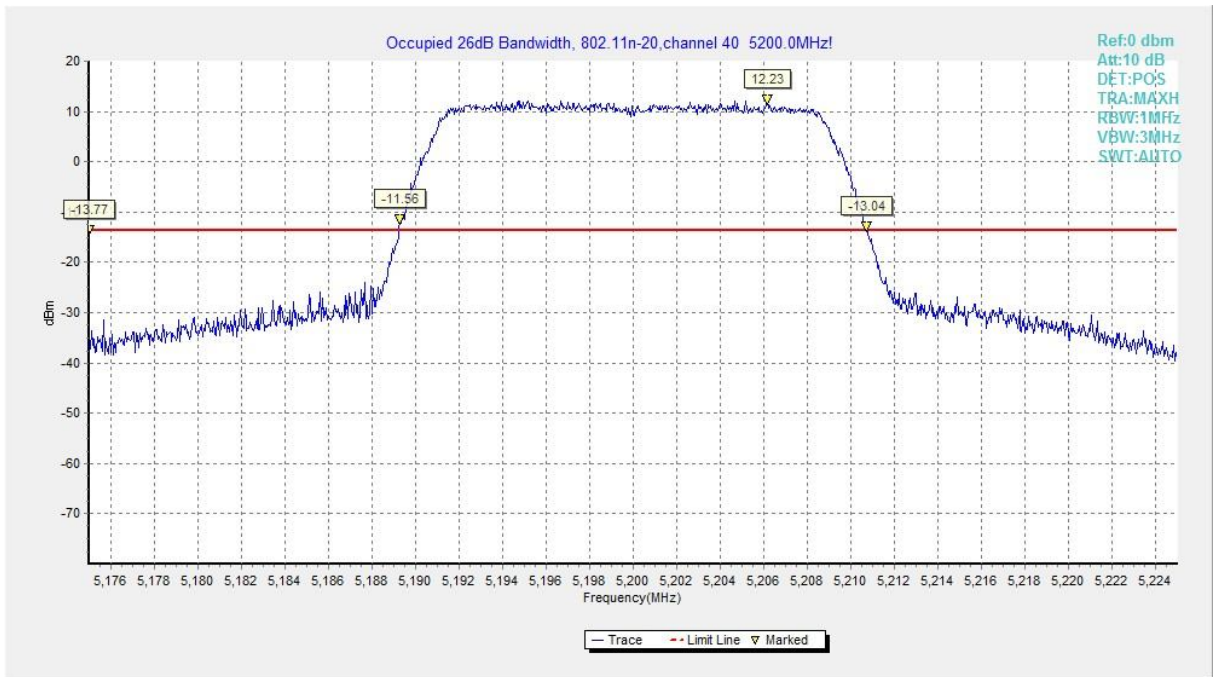


Fig. 11 Occupied 26dB Bandwidth (802.11n-HT20, 5200MHz)

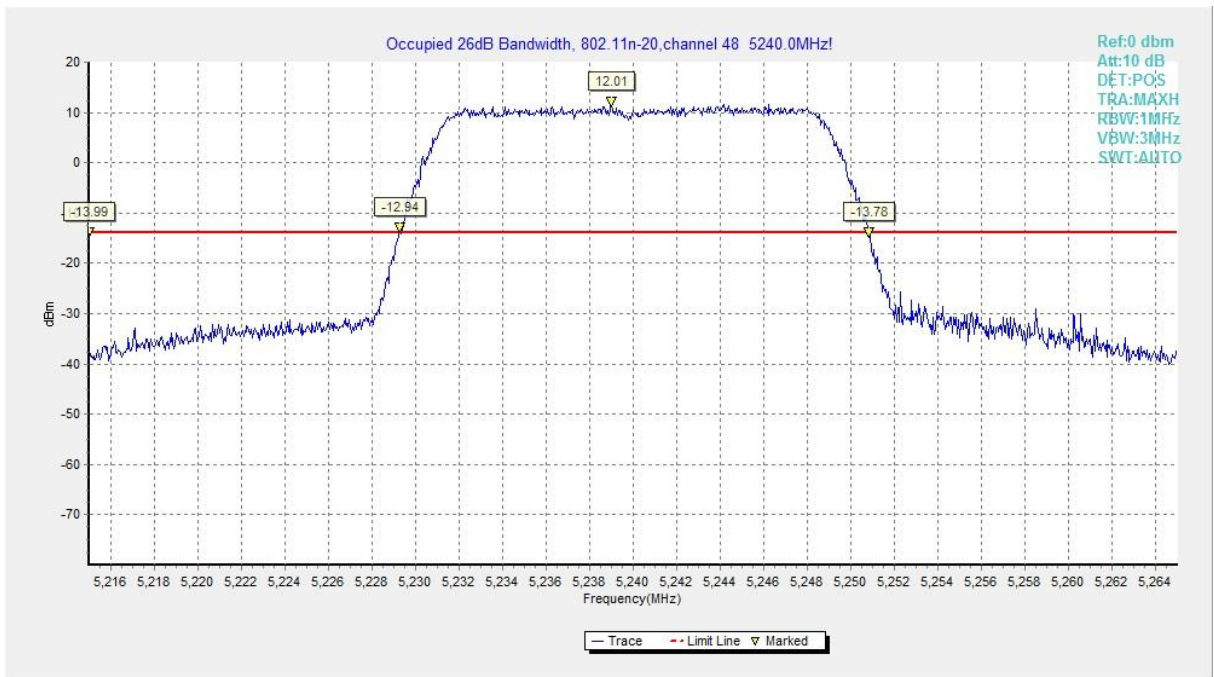


Fig. 12 Occupied 26dB Bandwidth (802.11n-HT20, 5240MHz)

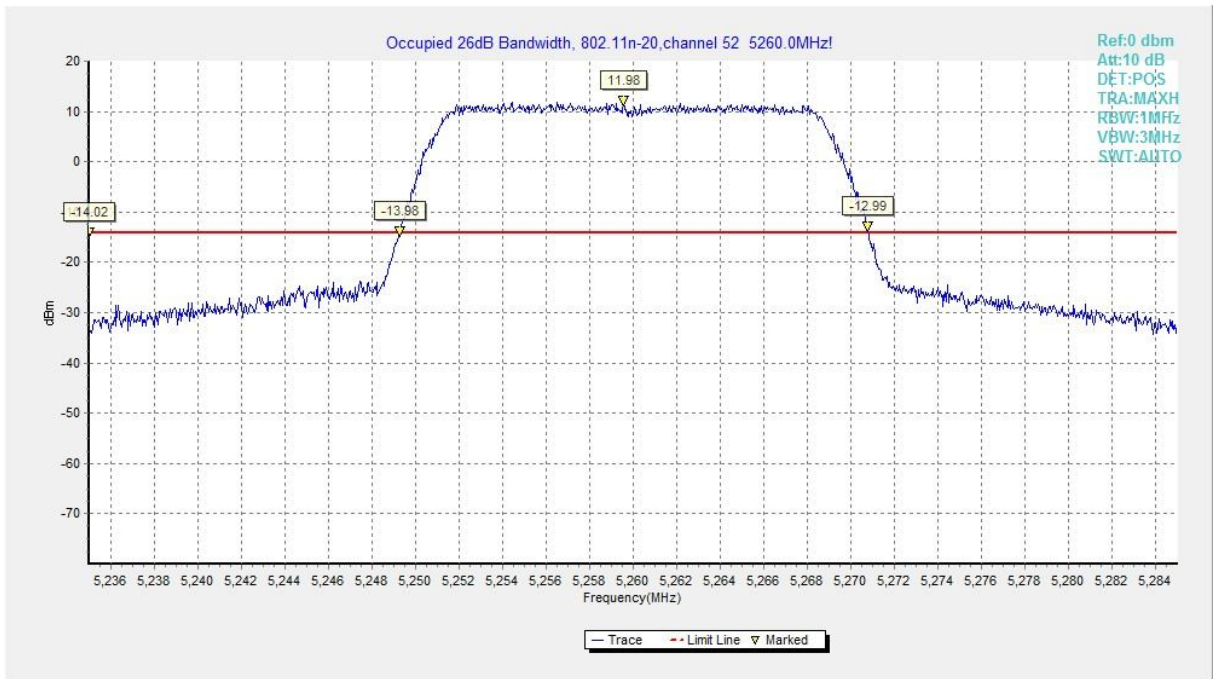


Fig. 13 Occupied 26dB Bandwidth (802.11n-HT20, 5260MHz)

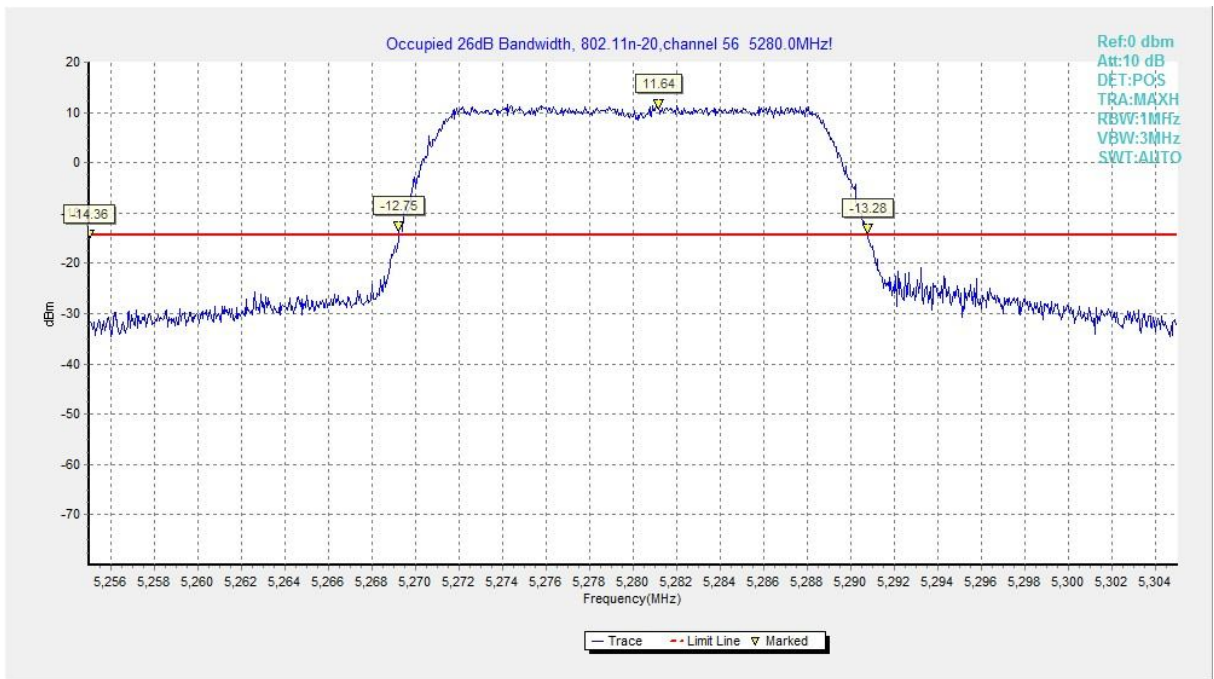


Fig. 14 Occupied 26dB Bandwidth (802.11n-HT20, 5280MHz)

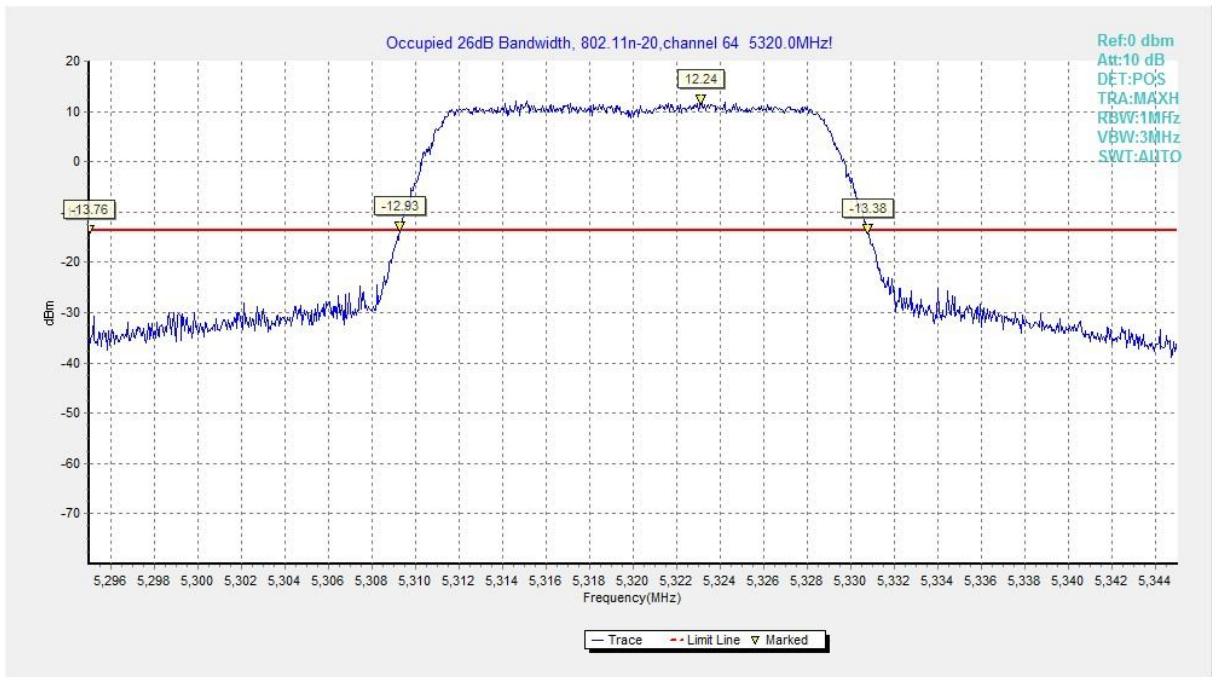


Fig. 15 Occupied 26dB Bandwidth (802.11n-HT20, 5320MHz)

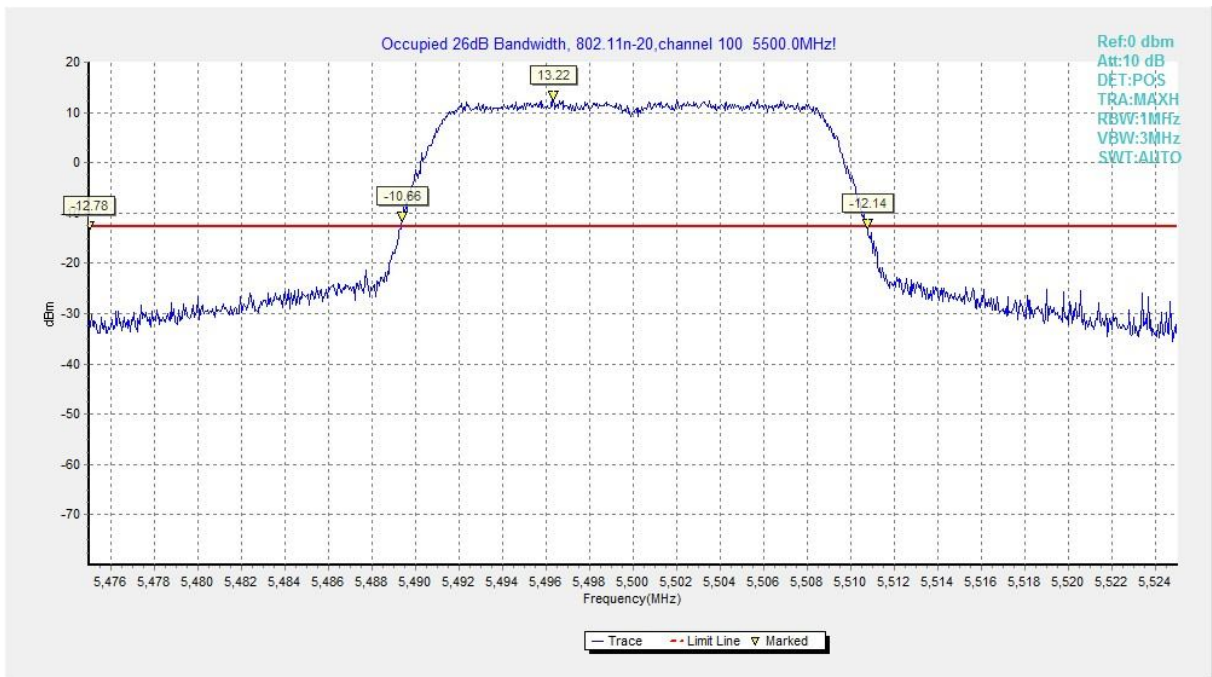


Fig. 16 Occupied 26dB Bandwidth (802.11n-HT20, 5500MHz)

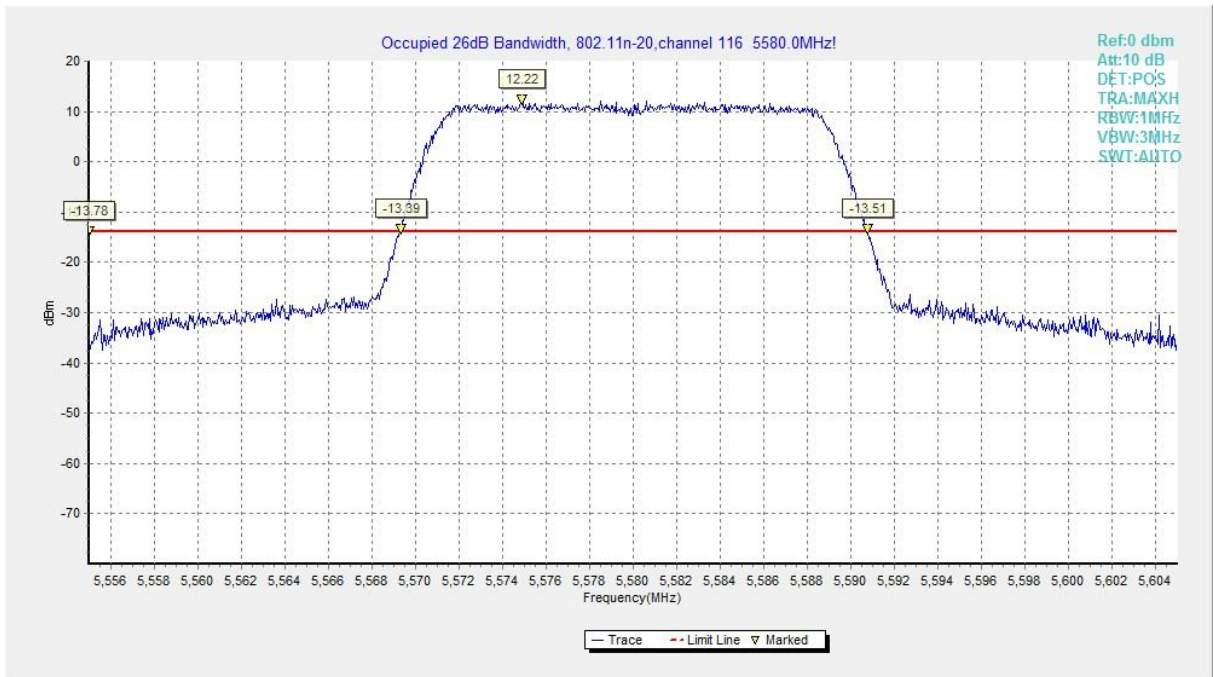


Fig. 17 Occupied 26dB Bandwidth (802.11n-HT20, 5600MHz)

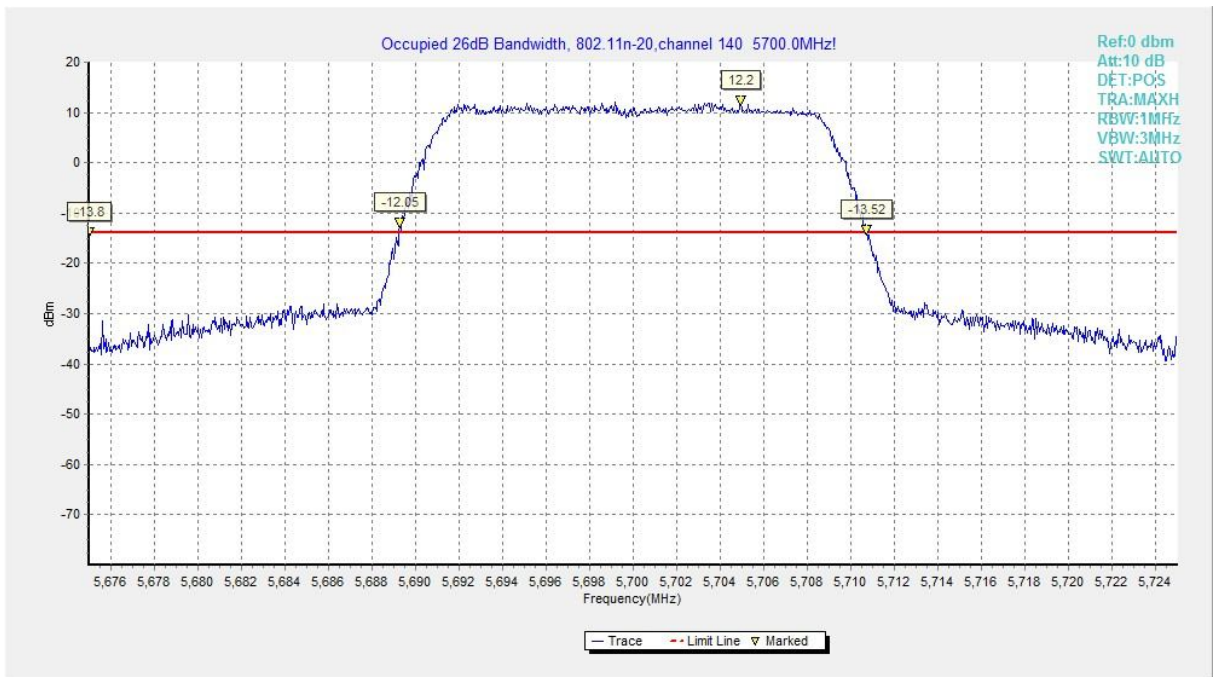


Fig. 18 Occupied 26dB Bandwidth (802.11n-HT20, 5700MHz)

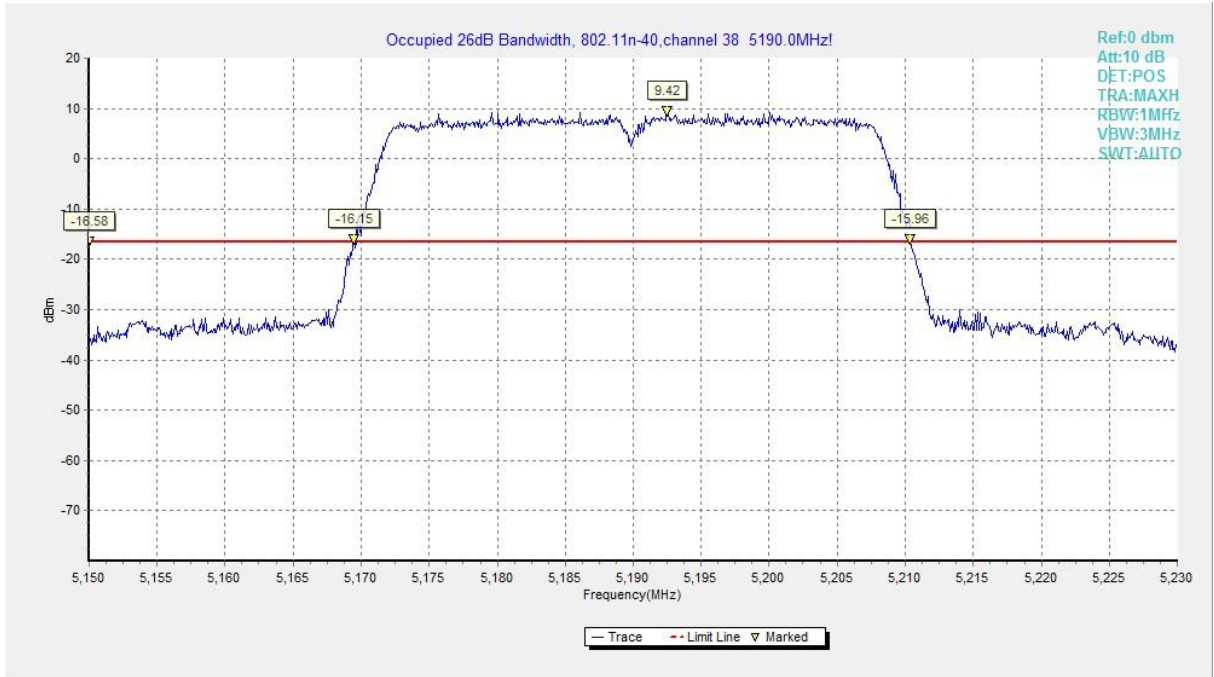


Fig. 19 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)

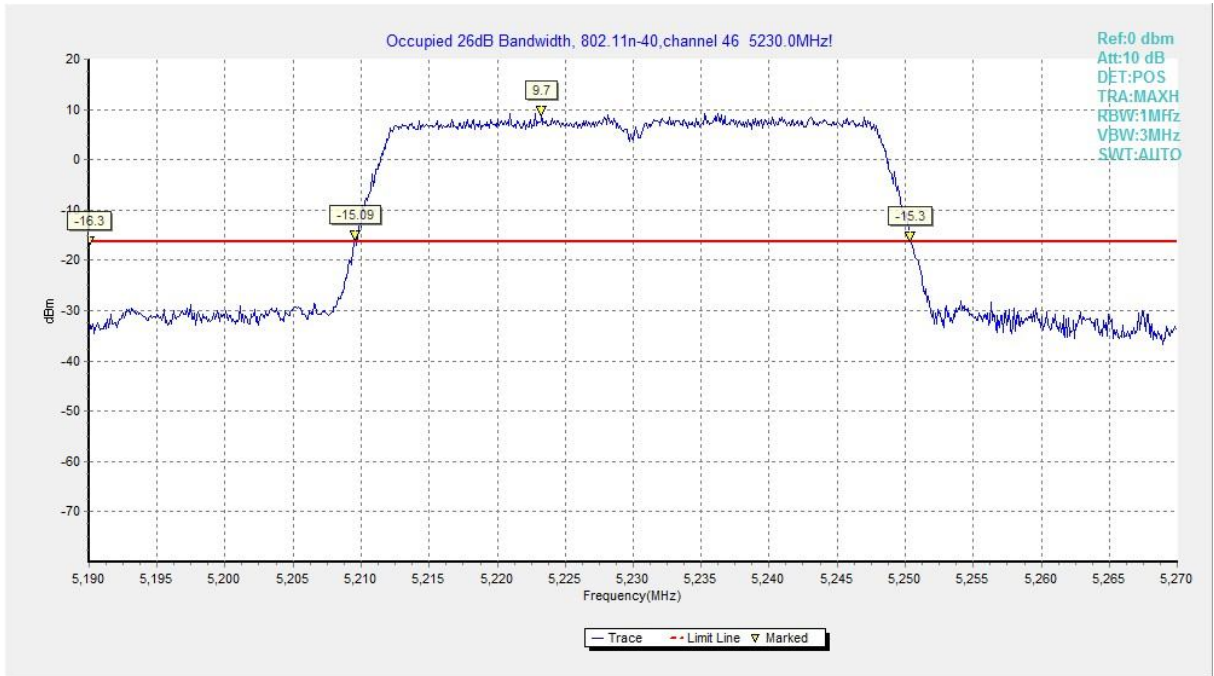


Fig. 20 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)

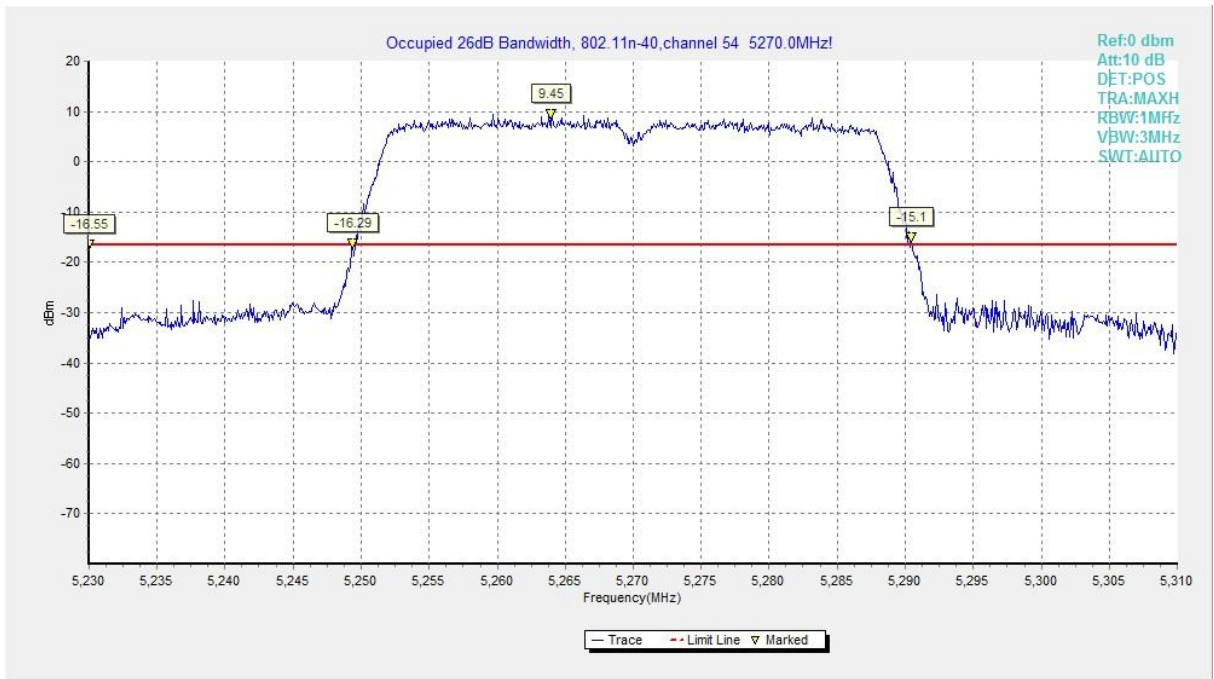


Fig. 21 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)

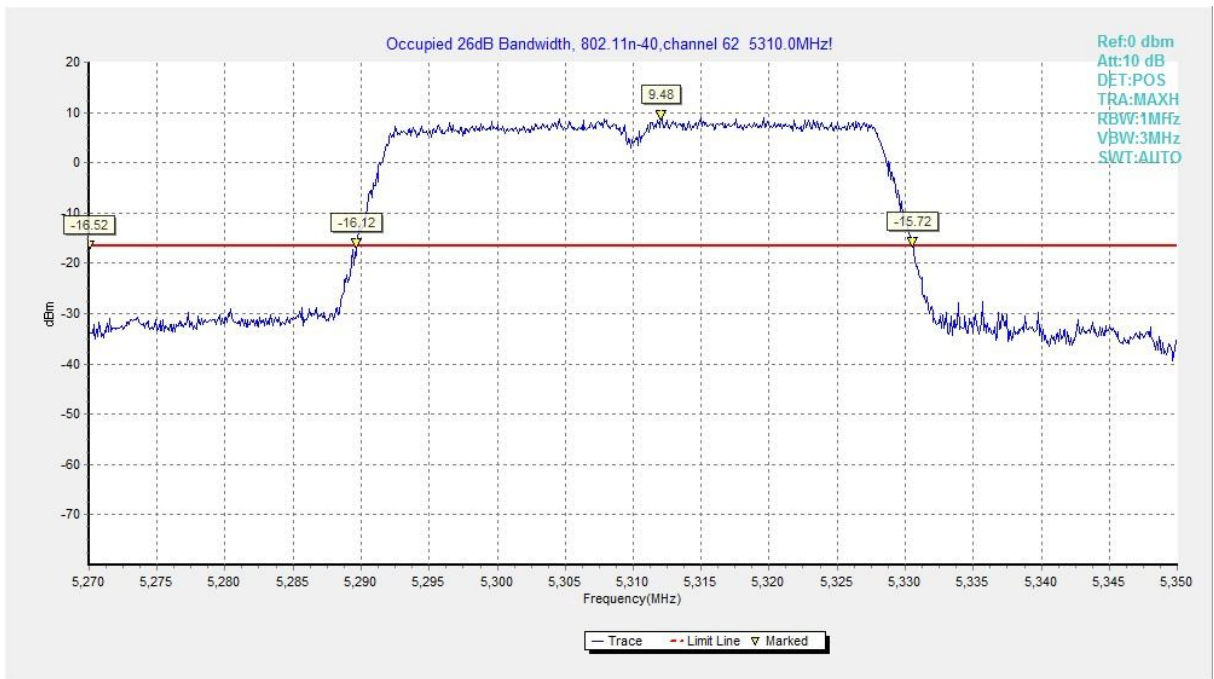


Fig. 22 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)

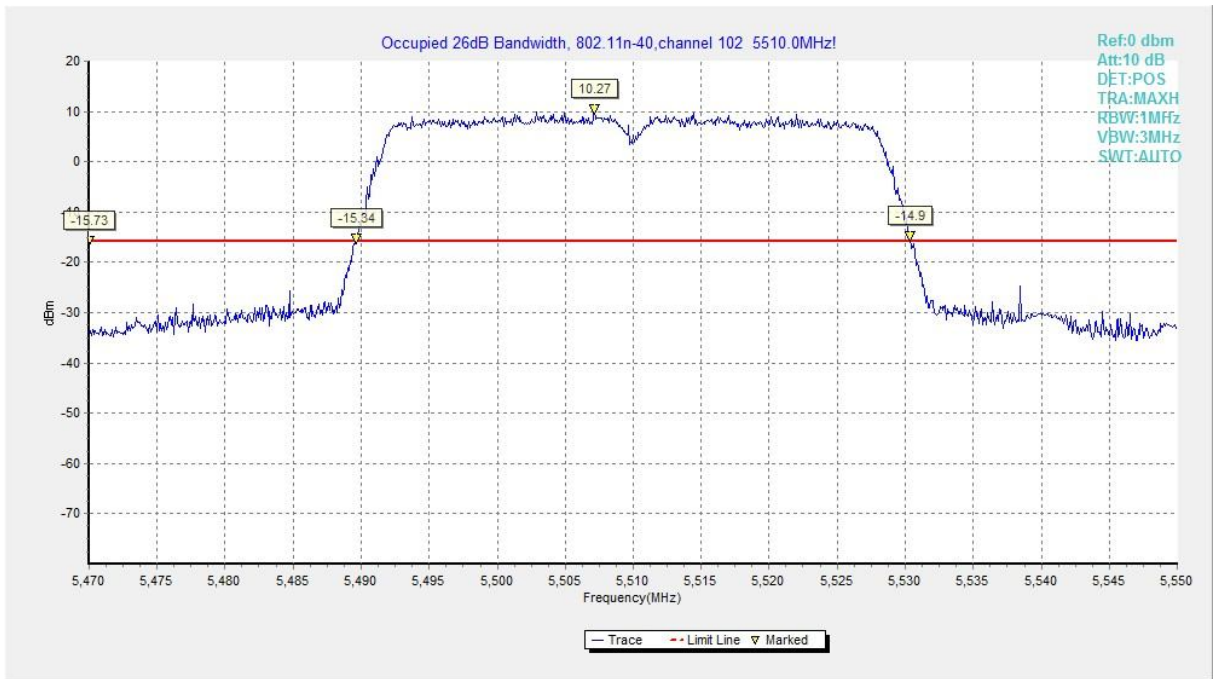


Fig. 23 Occupied 26dB Bandwidth (802. 11n-HT40, 5510MHz)

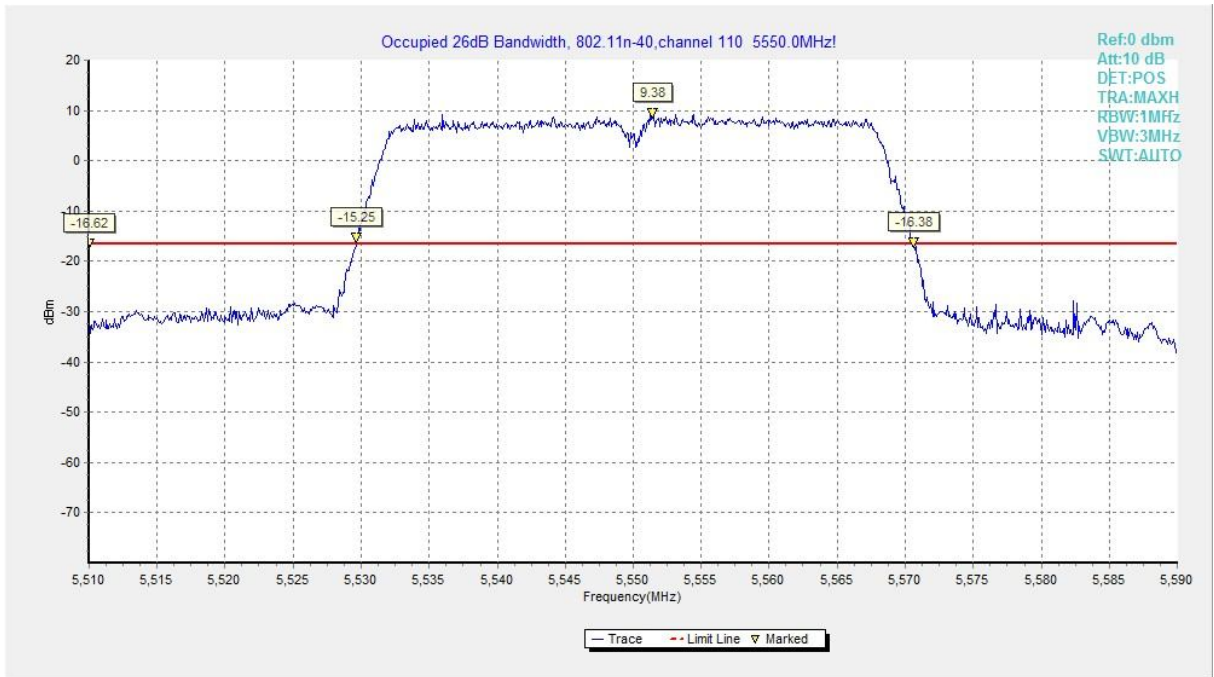


Fig. 24 Occupied 26dB Bandwidth (802. 11n-HT40, 5590MHz)

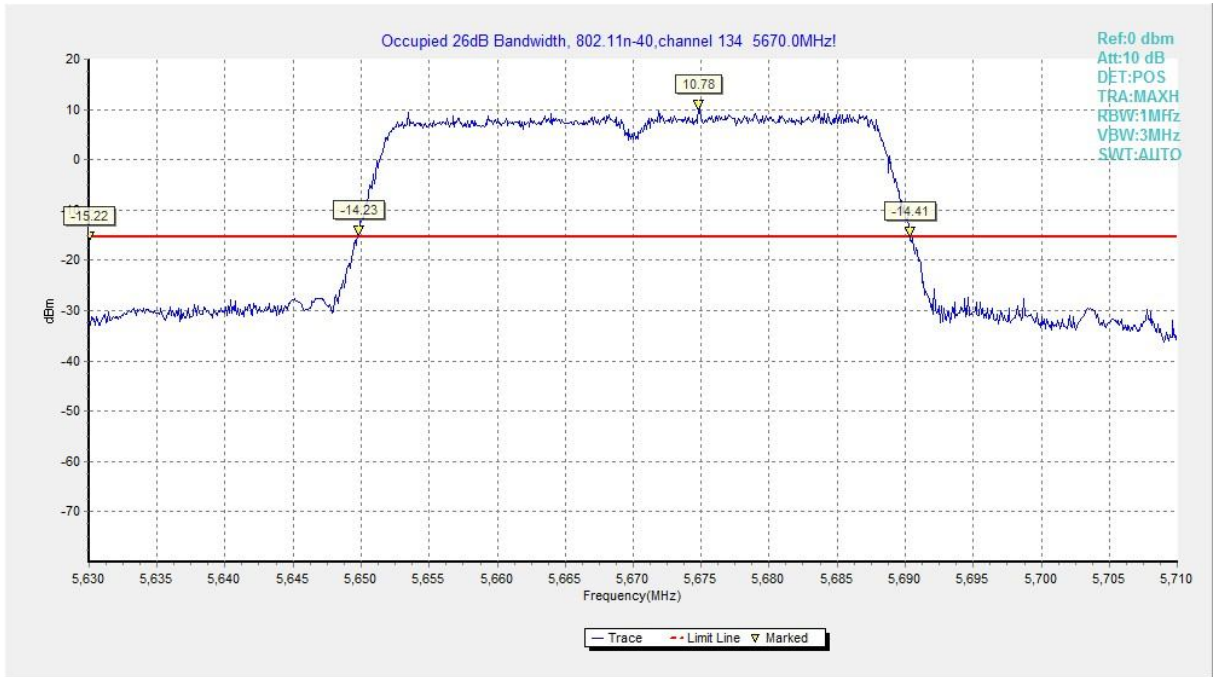


Fig. 25 Occupied 26dB Bandwidth (802. 11n-HT40, 5670MHz)



A.5. Band Edges Compliance

A5.1 Band Edges - conducted

Measurement Limit:

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

The measurement is made according to KDB 789033

Measurement Uncertainty:

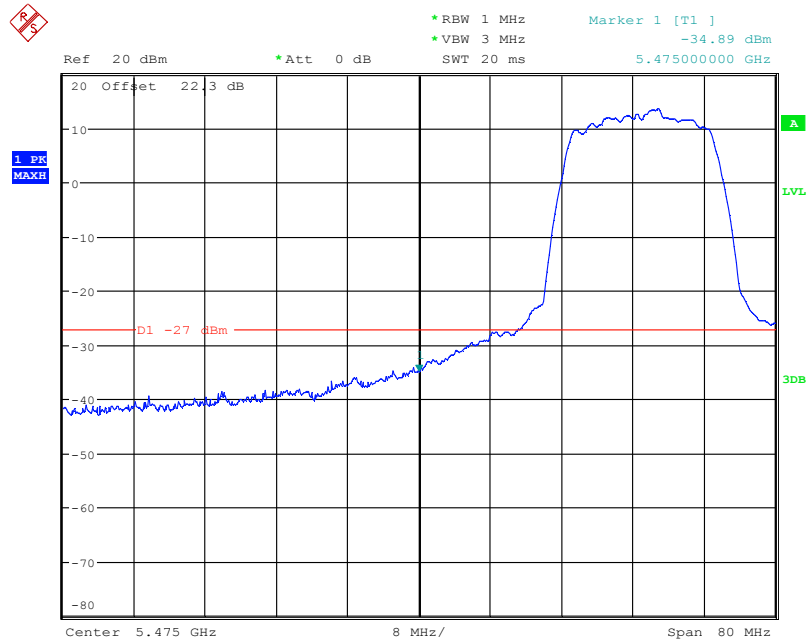
Measurement Uncertainty	0.75dB
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Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.26	P
	5320 MHz	Fig.27	P
	5500 MHz	Fig.28	P
	5700 MHz	Fig.29	P
802.11n HT20	5180 MHz	Fig.30	P
	5320 MHz	Fig.31	P
	5500 MHz	Fig.32	P
	5700 MHz	Fig.33	P
802.11n HT40	5190 MHz	Fig.34	P
	5310 MHz	Fig.35	P
	5510 MHz	Fig.36	P
	5670 MHz	Fig.37	P

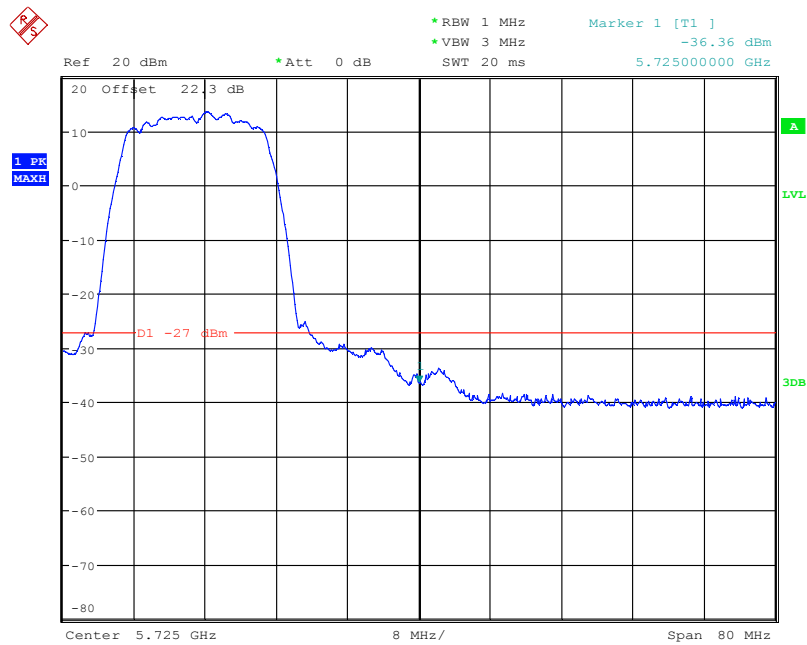
Conclusion: PASS

Test graphs as below:



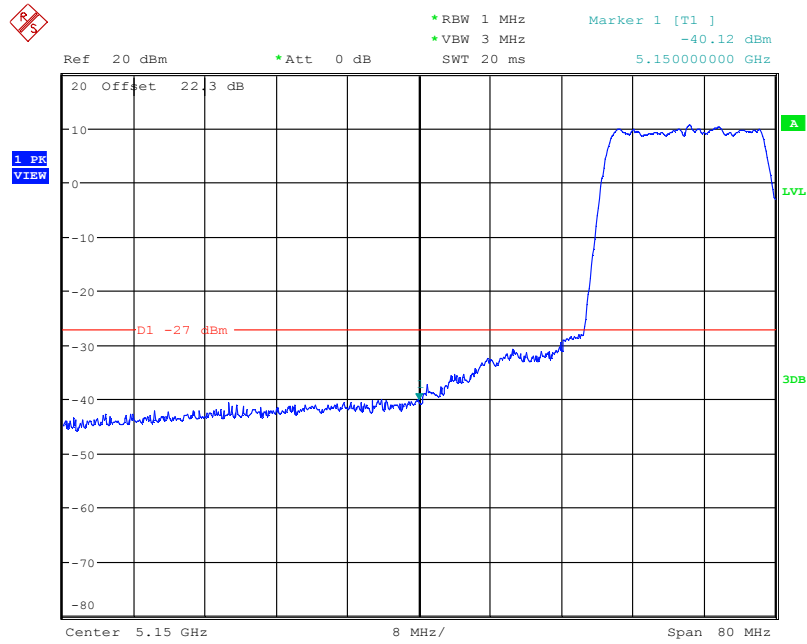
Date: 1.FEB.2003 04:08:38

Fig. 28 Band Edges (802.11a, 5500MHz)



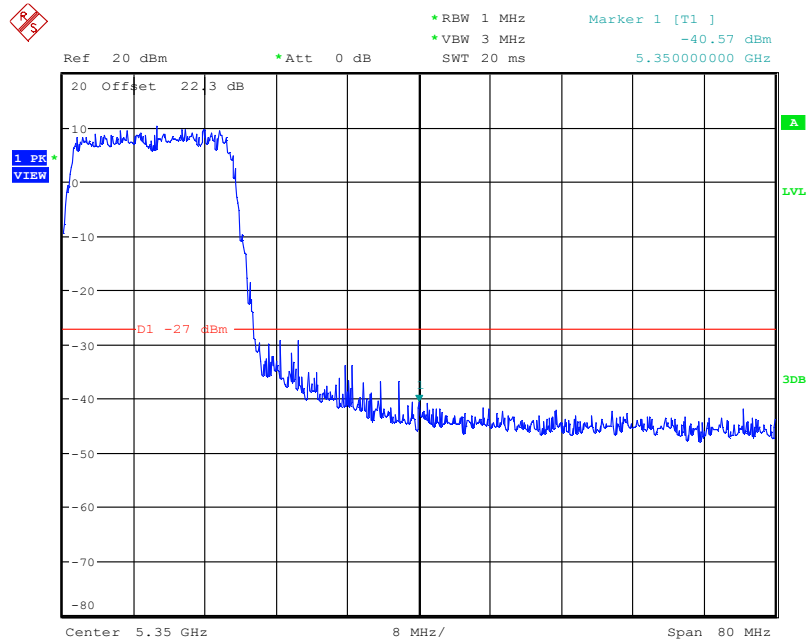
Date: 1.FEB.2003 04:09:27

Fig. 29 Band Edges (802.11a, 5700MHz)



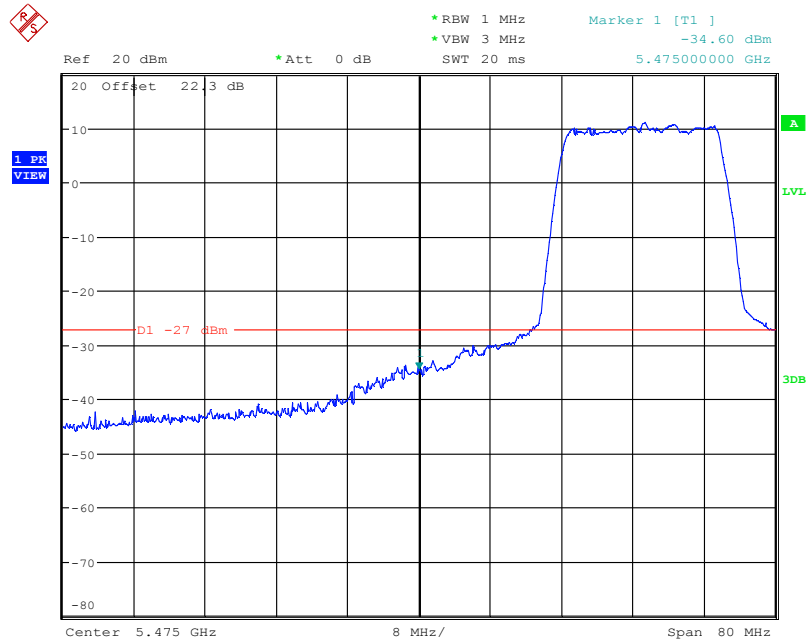
Date: 1.FEB.2003 04:10:22

Fig. 30 Band Edges (802.11n-HT20, 5180MHz)



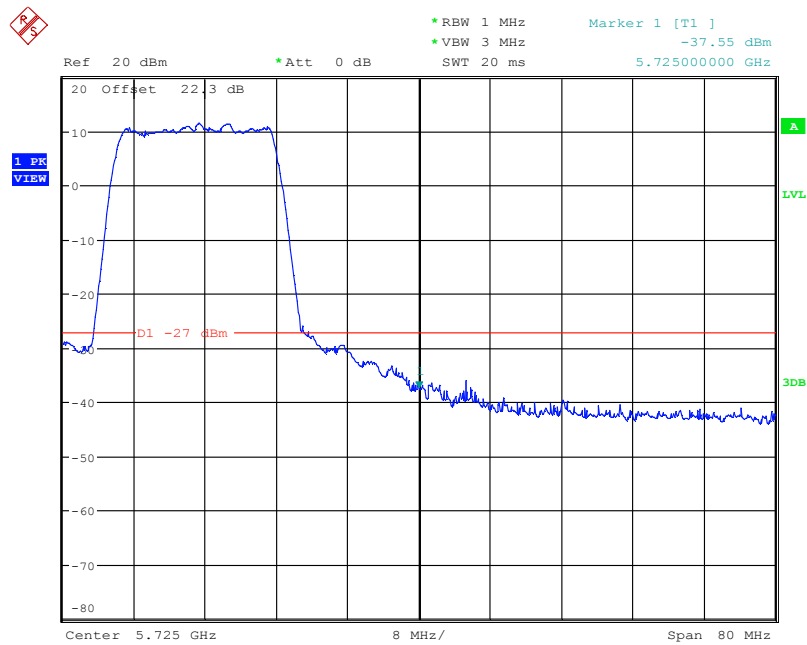
Date: 1.FEB.2003 04:11:25

Fig. 31 Band Edges (802.11n-HT20, 5320MHz)



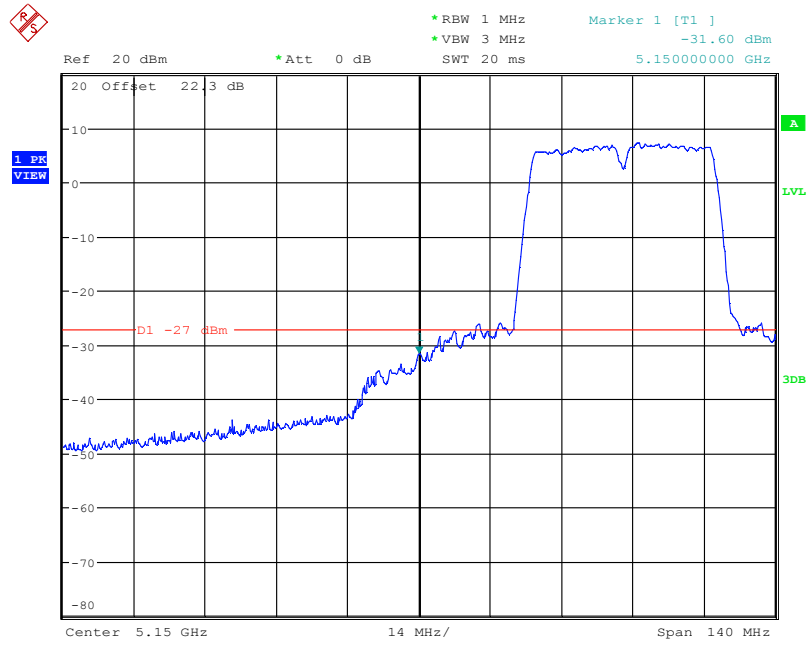
Date: 1.FEB.2003 04:12:22

Fig. 32 Band Edges (802.11n-HT20, 5500MHz)



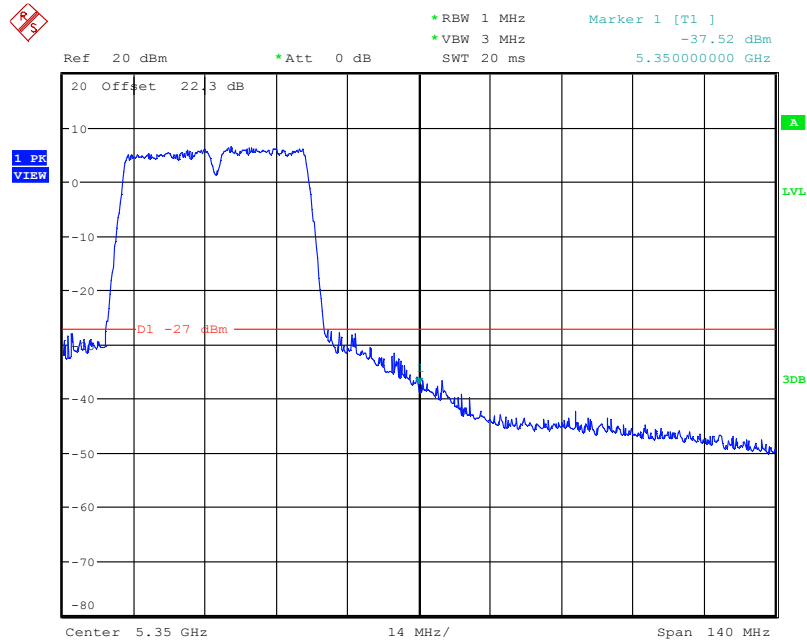
Date: 1.FEB.2003 04:13:38

Fig. 33 Band Edges (802.11n-HT20, 5700MHz)



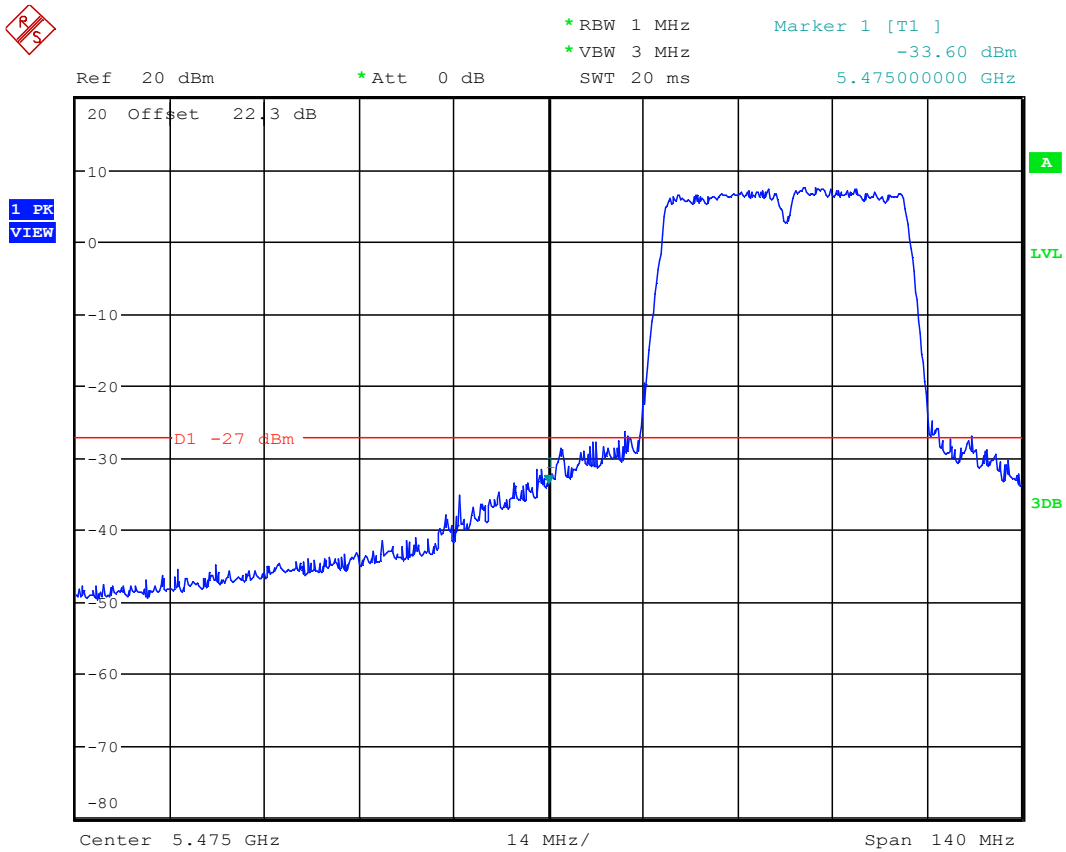
Date: 1.FEB.2003 04:14:55

Fig. 34 Band Edges (802.11n-HT40, 5190MHz)



Date: 1.FEB.2003 04:15:41

Fig. 35 Band Edges (802.11n-HT40, 5310MHz)



Date: 1.FEB.2003 04:16:51

Fig. 36 Band Edges (802.11n-HT40, 5510MHz)



A5.2 Band Edges - Radiated

Measurement Limit:

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

The measurement is made according to KDB 789033

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.38	P
	5320 MHz	Fig.39	P
	5500 MHz	Fig.40	P
	5700 MHz	Fig.41	P
802.11n HT20	5180 MHz	Fig.42	P
	5320 MHz	Fig.43	P
	5500 MHz	Fig.44	P
	5700 MHz	Fig.45	P
802.11n HT40	5190 MHz	Fig.46	P
	5310 MHz	Fig.47	P
	5510 MHz	Fig.48	P
	5670 MHz	Fig.49	P

Conclusion: PASS

Test graphs as below:

RE-Power_5.125G-5.175GHz

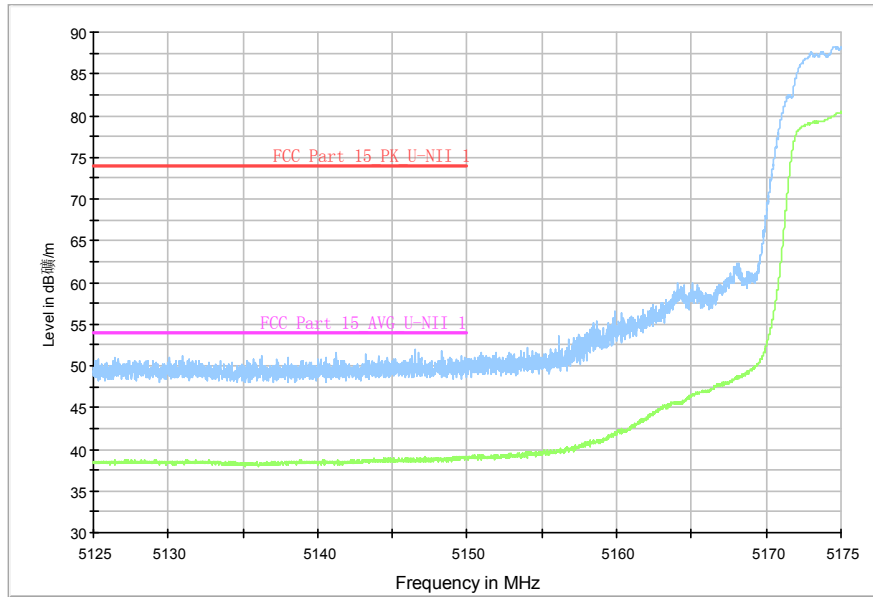


Fig. 38 Band Edges (802.11a, 5180MHz)

RE-Power_5.325G-5.375GHz

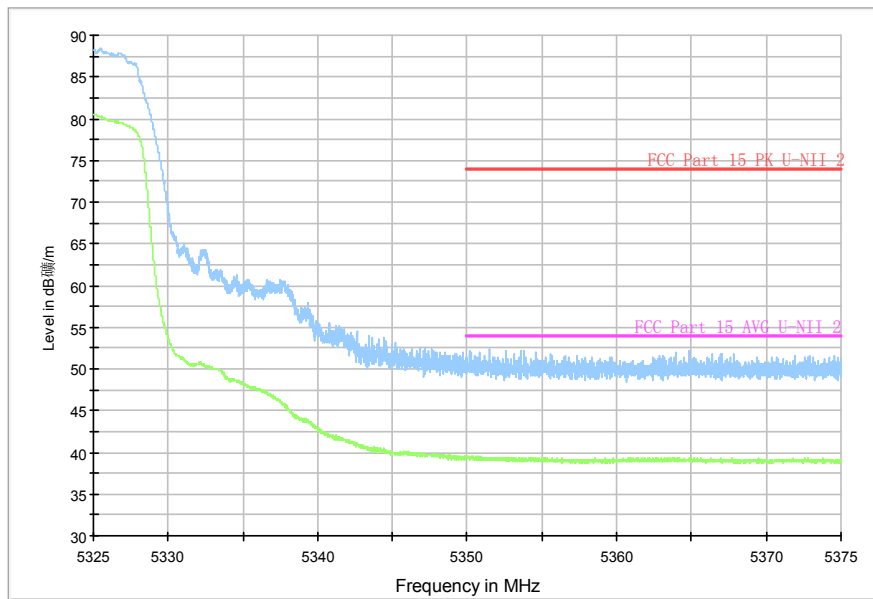


Fig. 39 Band Edges (802.11a, 5320MHz)

RE-Power_5.45G-5.5GHz

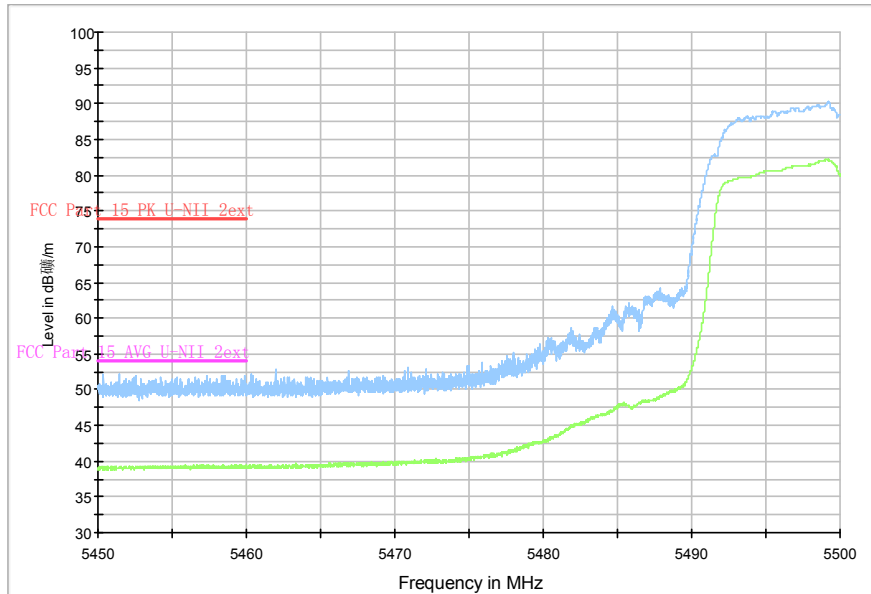


Fig. 40 Band Edges (802.11a, 5500MHz)

RE-Power_5.7G-5.750GHz

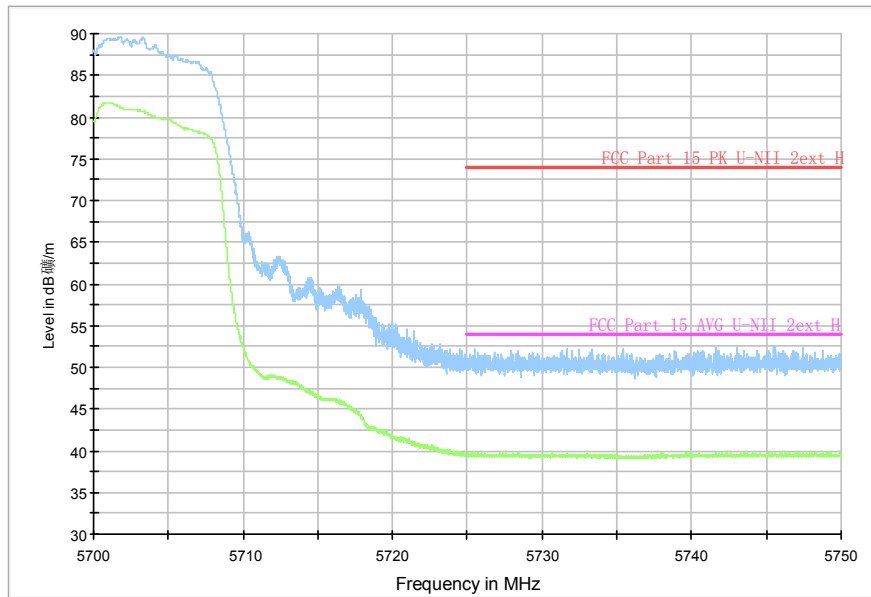


Fig. 41 Band Edges (802.11a, 5700MHz)

RE-Power_5.125G-5.175GHz

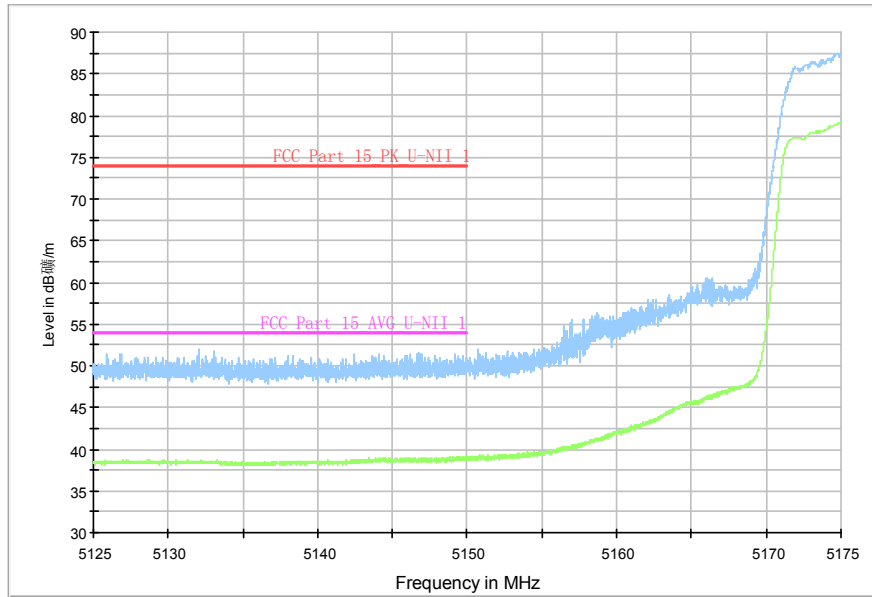


Fig. 42 Band Edges (802.11n-HT20, 5180MHz)

RE-Power_5.325G-5.375GHz

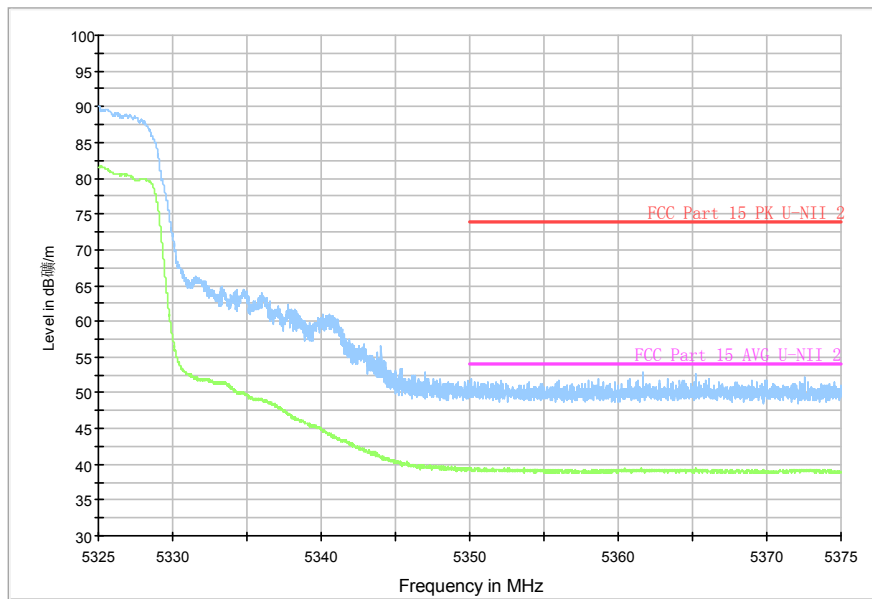


Fig. 43 Band Edges (802.11n-HT20, 5320MHz)

RE-Power_5.45G-5.5GHz

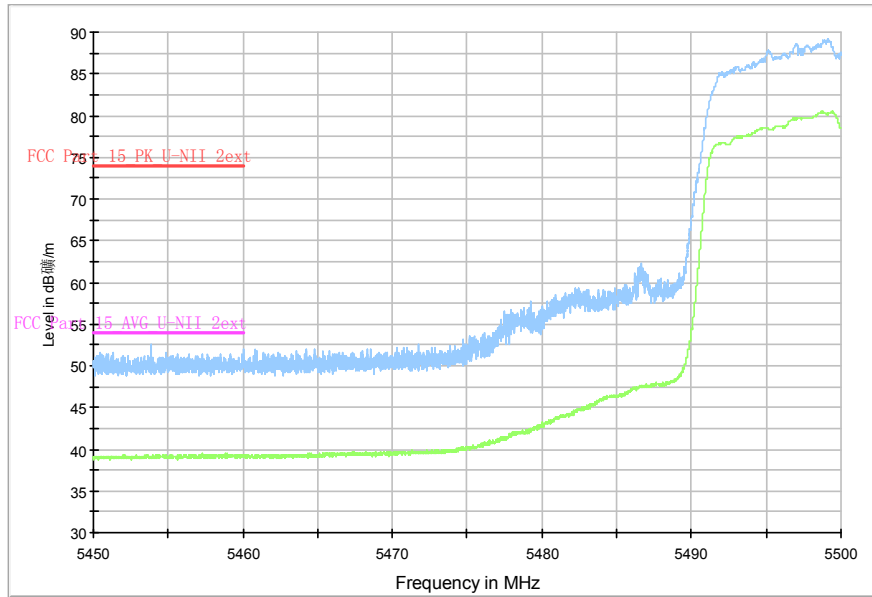


Fig. 44 Band Edges (802.11n-HT20, 5500MHz)

RE-Power_5.7G-5.750GHz

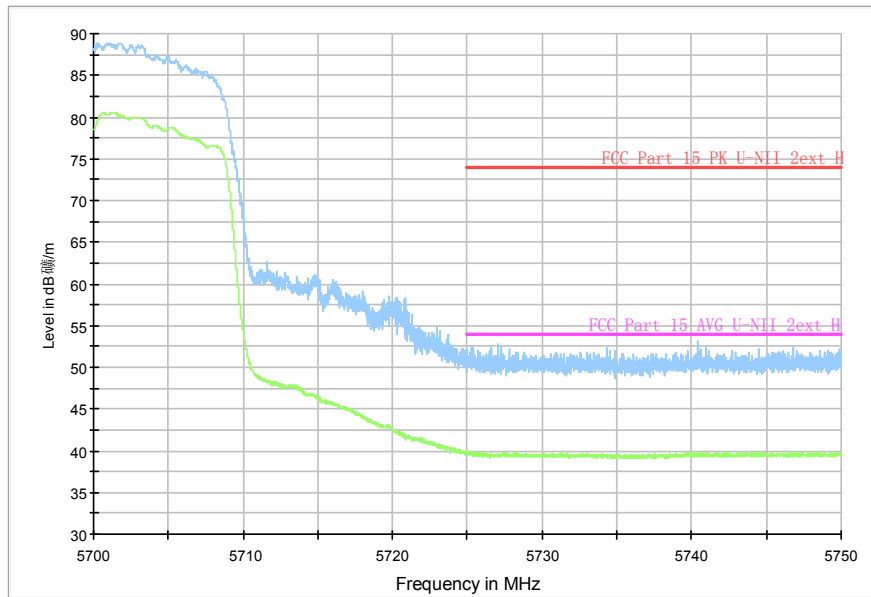


Fig. 45 Band Edges (802.11n-HT20, 5700MHz)

RE-Power_5.125G-5.175GHz

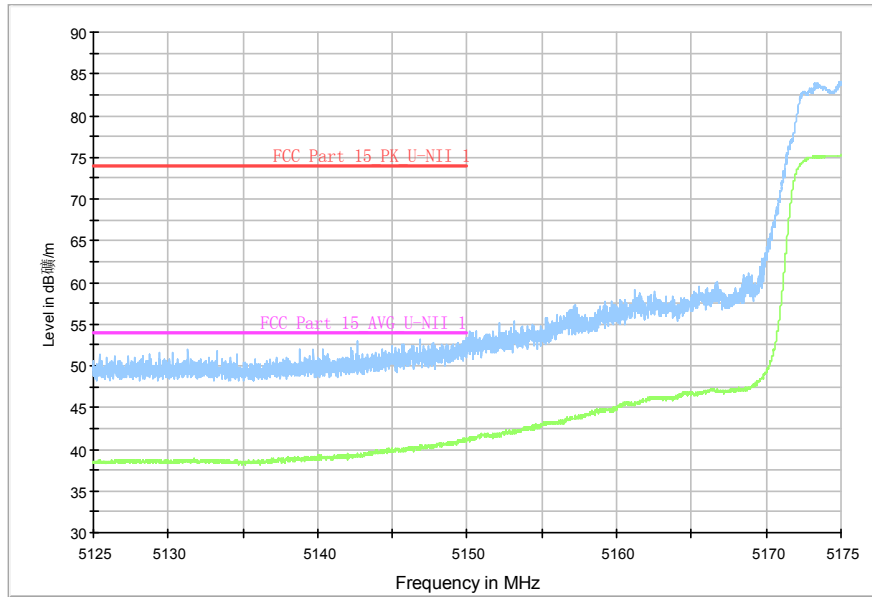


Fig. 46 Band Edges (802.11n-HT40, 5190MHz)

RE-Power_5.325G-5.375GHz

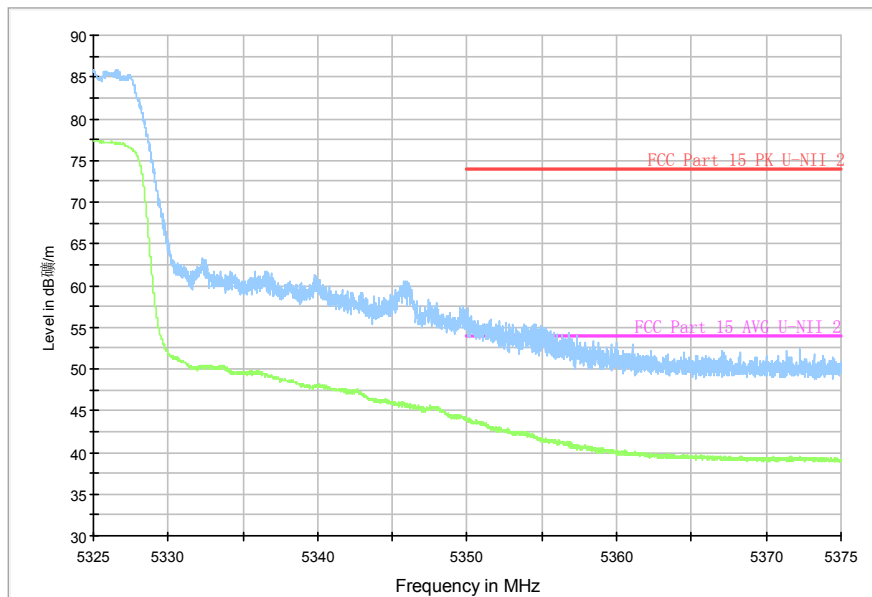


Fig. 47 Band Edges (802.11n-HT40, 5310MHz)

RE-Power_5.45G-5.5GHz

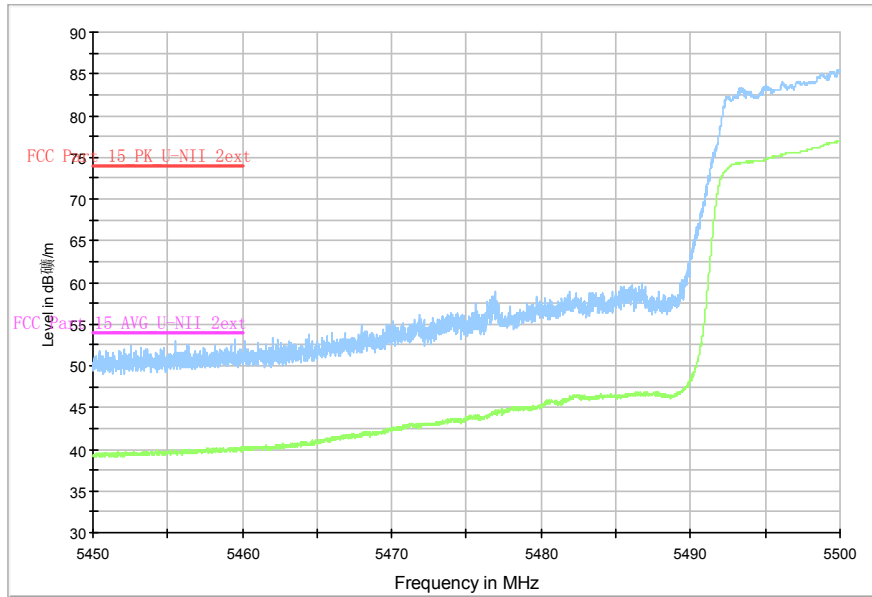


Fig. 48 Band Edges (802.11n-HT40, 5510MHz)

RE-Power_5.7G-5.750GHz

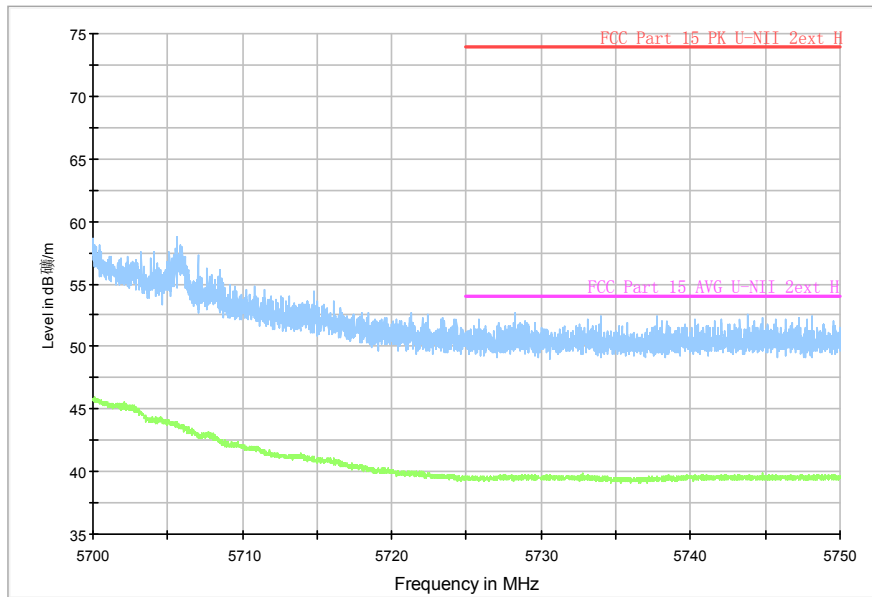


Fig. 49 Band Edges (802.11n-HT40, 5670MHz)



A.6. Transmitter Spurious Emission

Measurement Limit:

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

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(dB μ V/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 uncertainty:

Expanded measurement uncertainty for this test item is U =3.9 dB, k=2.

Measurement Results:



802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	36(5180MHz)	1 GHz ~ 6 GHz	Fig.50	P
		6 GHz ~ 18 GHz	Fig.51	P
	40(5200MHz)	30 MHz ~1 GHz	Fig.52	P
		1 GHz ~ 6 GHz	Fig.53	P
		6 GHz ~ 18 GHz	Fig.54	P
		18 GHz ~ 26.5 GHz	Fig.55	P
	48(5240MHz)	26.5 GHz ~ 40 GHz	Fig.56	P
		1 GHz ~ 6 GHz	Fig.57	P
		6 GHz ~ 18 GHz	Fig.58	P
	52(5260MHz)	1 GHz ~ 6 GHz	Fig.59	P
		6 GHz ~ 18 GHz	Fig.60	P
	56(5280MHz)	30 MHz ~1 GHz	Fig.61	P
		1 GHz ~ 6 GHz	Fig.62	P
		6 GHz ~ 18 GHz	Fig.63	P
		18 GHz ~ 26.5 GHz	Fig.64	P
		26.5 GHz ~ 40 GHz	Fig.65	P
	64(5320MHz)	1 GHz ~ 6 GHz	Fig.66	P
		6 GHz ~ 18 GHz	Fig.67	P
	100(5500MHz)	1 GHz ~ 6 GHz	Fig.68	P
		6 GHz ~ 18 GHz	Fig.69	P
	116(5580MHz)	30 MHz ~1 GHz	Fig.70	P
		6 GHz ~ 18 GHz	Fig.71	P
		18 GHz ~ 26.5 GHz	Fig.72	P
		26.5 GHz ~ 40 GHz	Fig.73	P
140(5700MHz)	1 GHz ~ 6 GHz	Fig.74	P	
	6 GHz ~ 18 GHz	Fig.75	P	



802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n -HT20	36(5180MHz)	1 GHz ~ 6 GHz	Fig.76	P
		6 GHz ~ 18 GHz	Fig.77	P
	40(5200MHz)	30 MHz ~1 GHz	Fig.78	P
		1 GHz ~ 6 GHz	Fig.79	P
		6 GHz ~ 18 GHz	Fig.80	P
		18 GHz ~ 26.5 GHz	Fig.81	P
	48(5240MHz)	26.5 GHz ~ 40 GHz	Fig.82	P
		1 GHz ~ 6 GHz	Fig.83	P
		6 GHz ~ 18 GHz	Fig.84	P
	52(5260MHz)	1 GHz ~ 6 GHz	Fig.85	P
		6 GHz ~ 18 GHz	Fig.86	P
	56(5280MHz)	30 MHz ~1 GHz	Fig.87	P
		1 GHz ~ 6 GHz	Fig.88	P
		6 GHz ~ 18 GHz	Fig.89	P
		18 GHz ~ 26.5 GHz	Fig.90	P
		26.5 GHz ~ 40 GHz	Fig.91	P
	64(5320MHz)	1 GHz ~ 6 GHz	Fig.92	P
		6 GHz ~ 18 GHz	Fig.93	P
	100(5500MHz)	1 GHz ~ 6 GHz	Fig.94	P
		6 GHz ~ 18 GHz	Fig.95	P
	116(5580MHz)	30 MHz ~1 GHz	Fig.96	P
		1 GHz ~ 6 GHz	Fig.97	P
		6 GHz ~ 18 GHz	Fig.98	P
		18 GHz ~ 26.5 GHz	Fig.99	P
26.5 GHz ~ 40 GHz		Fig.100	P	
140(5700MHz)	1 GHz ~ 6 GHz	Fig.101	P	
	6 GHz ~ 18 GHz	Fig.102	P	



802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n HT40	38(5190MHz)	30 MHz ~1 GHz	Fig.103	P
		1 GHz ~ 6 GHz	Fig.104	P
		6 GHz ~ 18 GHz	Fig.105	P
		18 GHz ~ 26.5 GHz	Fig.106	P
		26.5 GHz ~ 40 GHz	Fig.107	P
	46(5230MHz)	1 GHz ~ 6 GHz	Fig.108	P
		6 GHz ~ 18 GHz	Fig.109	P
		1 GHz ~ 6 GHz	Fig.110	P
		6 GHz ~ 18 GHz	Fig.111	P
	62(5310MHz)	30 MHz ~1 GHz	Fig.112	P
		1 GHz ~ 6 GHz	Fig.113	P
		6 GHz ~ 18 GHz	Fig.114	P
		18 GHz ~ 26.5 GHz	Fig.115	P
	102(5510MHz)	26.5 GHz ~ 40 GHz	Fig.116	P
		1 GHz ~ 6 GHz	Fig.117	P
	110(5550MHz)	6 GHz ~ 18 GHz	Fig.118	P
		30 MHz ~1 GHz	Fig.119	P
	134(5670MHz)	1 GHz ~ 6 GHz	Fig.120	P
		6 GHz ~ 18 GHz	Fig.121	P
		18 GHz ~ 26.5 GHz	Fig.122	P
26.5 GHz ~ 40 GHz		Fig.123	P	
1 GHz ~ 6 GHz		Fig.124	P	
		6 GHz ~ 18 GHz	Fig.125	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:

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



802.11a

Channel 36

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5148.250	51.8	-35.1	34.6	52.300	H
17878.500	53.8	-18.5	45.6	26.700	V
17961.000	53.7	-17.7	45.6	25.800	V
17908.500	53.3	-18.5	45.6	26.200	V
17997.000	53.2	-17.7	45.6	25.300	V
17710.500	43.7	-18.9	45.6	17.000	H

Channel 40

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17995.500	56.2	-17.7	45.6	28.300	V
17994.000	54.8	-17.7	45.6	26.900	V
17964.000	54.6	-17.7	45.6	26.700	H
17877.000	54.5	-18.5	45.6	27.400	H
17988.000	54.5	-17.7	45.6	26.600	V
17710.500	43.7	-18.9	45.6	17.000	H

Channel 48

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17971.500	53.5	-17.7	45.6	25.600	V
17865.000	53.2	-18.5	45.6	26.100	V
17967.000	53.0	-17.7	45.6	25.100	V
17988.000	52.9	-17.7	45.6	25.000	H
17788.500	52.9	-18.5	45.6	25.800	H
17710.500	43.7	-18.9	45.6	17.000	V

Channel 52

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17682.000	54.5	-18.9	45.6	27.8	V
17929.500	53.5	-17.7	45.6	25.6	H
17893.500	53.3	-18.5	45.6	26.2	H
17979.000	53.3	-17.7	45.6	25.4	H
17947.500	53.2	-17.7	45.6	25.3	V
17710.500	43.7	-18.9	45.6	17.0	V



Channel 56

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17997.000	56.3	-17.7	45.6	28.4	H
17995.500	54.8	-17.7	45.6	26.9	V
17961.000	54.5	-17.7	45.6	26.6	V
17893.500	54.5	-18.5	45.6	27.4	H
17881.500	54.3	-18.5	45.6	27.2	V
17710.500	43.7	-18.9	45.6	17.0	V

Channel 64

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5351.530	52.3	-34.8	34.6	52.5	V
17973.000	53.0	-17.7	45.6	25.1	V
17881.500	52.8	-18.5	45.6	25.7	V
17685.000	52.8	-18.9	45.6	26.1	H
17893.500	52.7	-18.5	45.6	25.6	H
17710.500	43.7	-18.9	45.6	17.0	V

Channel 100

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
5458.400	51.9	-34.9	34.6	52.2	V
17859.000	53.4	-18.5	45.6	26.3	V
17880.000	53.3	-18.5	45.6	26.2	H
17979.000	53.2	-17.7	45.6	25.3	V
17899.500	53.2	-18.5	45.6	26.1	V
17964.000	54.1	-17.7	45.6	26.2	V

Channel 120

Frequency(MHz)	Result (dBuV/m)	Cable Loss	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17877.000	53.1	-18.5	45.6	26.0	H
17820.000	53.0	-18.5	45.6	25.9	V
17956.500	53.0	-17.7	45.6	25.1	V
17785.500	52.7	-18.5	45.6	25.6	H
17860.500	52.7	-18.5	45.6	25.6	H
17964.000	54.1	-17.7	45.6	26.2	V