

FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

AUDIO PRO AB

MULTICONNECTED WIRELESS LOUDSPEAKER

Model Number: A10 MkII

FCC ID: 2AGNC-A10MKII

Applicant :	AUDIO PRO AB
Address:	Garnisonsgatan 52, 25466, Helsingborg, Sweden
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
	Tel: 86-769-83081888-808

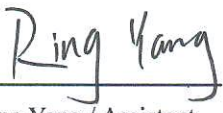
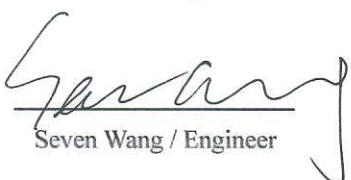
Report Number:	ESTE-R2203280
Date of Test:	Jan. 04~Mar. 24, 2022
Date of Report:	Mar. 28, 2022

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EST Technology Co., Ltd.

Applicant:	AUDIO PRO AB		
Address:	Garnisonsgatan 52, 25466, Helsingborg, Sweden		
Manufacturer:	AUDIO PRO AB		
Address:	Garnisonsgatan 52, 25466, Helsingborg, Sweden		
Factory:	DONGGUAN TRISTAR ELECTRONIC CO., LTD.		
Address:	Building 1& Building2, No. 196, Tangxia Dongxing Road, Tangxia Town, Dongguan City, Guangdong Province, China		
E.U.T:	MULTICONNECTED WIRELESS LOUDSPEAKER		
Model Number:	A10 MkII		
Power Supply:	AC 100-240V, 50-60Hz, 60W		
Trade Name:		Serial No.:	-----
Date of Receipt:	Jan. 04, 2022	Date of Test:	Jan. 04~Mar. 24, 2022
Test Specification:	FCC Part 15 Subpart E 15.407 ANSI C63.10:2013 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 FCC KDB 662911 D01 Multiple Transmitter Output v02r01		
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart E requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.		
Prepared by:	Reviewed by:	Approved by:	
 Ring Yang / Assistant	 Seven Wang / Engineer	 Iceman Hu / Manager	
Other Aspects:	None.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

FCC ID	:	2AGNC-A10MKII
Product Name	:	MULTICONNECTED WIRELESS LOUDSPEAKER
Model Number	:	A10 MkII
Software Version	:	TR1
Hardware Version	:	V1.2
Operation frequency	:	U-NII-1: 5150 MHz~5250 MHz U-NII-2A: 5250 MHz~5350 MHz U-NII-2C: 5470 MHz~5725 MHz U-NII-3: 5725 MHz~5850 MHz
Number of channel	:	U-NII-1: IEEE 802.11a / n HT20 / ac VHT20: 4 Channels; IEEE 802.11n HT40 / ac VHT40: 2 Channels; IEEE 802.11ac VHT80: 1 Channel. U-NII-2A: IEEE 802.11a / n HT20 / ac VHT20: 4 Channels; IEEE 802.11n HT40 / ac VHT40: 2 Channels; IEEE 802.11ac VHT80: 1 Channel. U-NII-2C: IEEE 802.11a / n HT20 / ac VHT20: 11 Channels; IEEE 802.11n HT40 / ac VHT40: 5 Channels; IEEE 802.11ac VHT80: 2 Channel. U-NII-3: IEEE 802.11a / n HT20 / ac VHT20: 5 Channels; IEEE 802.11n HT40 / ac VHT40: 2 Channels; IEEE 802.11ac VHT80: 1 Channel.
Modulation	:	OFDM(QPSK, BPSK, 16-QAM, 64-QAM, 256-QAM)
Transmit Data Rate	:	IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6Mbps; IEEE 802.11n: up to 150Mbps; IEEE 802.11ac: up to 433.3Mbps;
Channels Spacing	:	IEEE 802.11a: 20MHz; IEEE 802.11n HT20: 20MHz; IEEE 802.11n HT40: 40MHz; IEEE 802.11ac VHT20: 20MHz; IEEE 802.11ac VHT40: 40MHz; IEEE 802.11ac VHT80: 80MHz;

Transmit Power	:	U-NII-1	IEEE 802.11a: 14.683dBm IEEE 802.11n HT20: 11.873dBm IEEE 802.11n HT40: 13.812dBm IEEE 802.11ac VHT20: 11.991dBm IEEE 802.11ac VHT40: 13.801dBm IEEE 802.11ac VHT80: 10.892dBm
		U-NII-2A	IEEE 802.11a: 14.868dBm IEEE 802.11n HT20: 14.496dBm IEEE 802.11n HT40: 13.824dBm IEEE 802.11ac VHT20: 14.413dBm IEEE 802.11ac VHT40: 13.835dBm IEEE 802.11ac VHT80: 10.351dBm
		U-NII-2C	IEEE 802.11a: 13.547dBm IEEE 802.11n HT20: 12.698dBm IEEE 802.11n HT40: 12.778dBm IEEE 802.11ac VHT20: 12.726dBm IEEE 802.11ac VHT40: 12.752dBm IEEE 802.11ac VHT80: 9.904dBm
		U-NII-3	IEEE 802.11a: 13.604dBm IEEE 802.11n HT20: 13.254dBm IEEE 802.11n HT40: 12.772dBm IEEE 802.11ac VHT20: 13.234dBm IEEE 802.11ac VHT40: 12.543dBm IEEE 802.11ac VHT80: 9.458dBm
Sample Type	:	Prototype production	

Note:

For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2. The antenna information for EUT

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Internal	-	2

Note: This information is provided by the applicant.

1.3. Information of RF Cable

Cable Loss(dB)	Provided by
1.0	AUDIO PRO AB
Note: 1.The customer declared the loss value of the RF Cable, and the test results of this report only apply to the sample as received. 2. This information is provided by the applicant.	

2. SUMMARY OF TEST

2.1. Summary of test result

Report Section	Description of Test Item	FCC Standard Section	Results
3	6dB Bandwidth & 26dB Bandwidth & 99% Occupied Bandwidth	15.407(a) 15.407(e)	PASS
4	Maximum Conducted Output Power	15.407(a)	PASS
5	Peak Power Spectral Density	15.407(a)	PASS
6	Unwanted Emissions and Band Edge	15.205 15.209 15.407(b)	PASS
7	Frequency Stability	15.407(g)	PASS
8	AC Power Line Conducted Emissions	15.207 15.407(b)(9)	PASS
9	Antenna Requirement	15.203	PASS

Note:

(1) "N/A" denotes test is not applicable in this test report

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
This Certificate is valid until: November 12, 2023

Certificated by FCC, USA
Designation Number: CN1215
This Certificate is valid until: January 31, 2024

Certificated by A2LA, USA
Registration No.: 4366.01
This Certificate is valid until: January 31, 2024

Certificated by Industry Canada
CAB identifier No.: CN0035
This Certificate is valid until: January 31, 2024

Certificated by VCCI, Japan
Registration No.: C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Certificate is valid until: Apr. 19, 2023

Certificated by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Certificated by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3. Measurement uncertainty for EST Technology Co., Ltd.

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for spurious emissions test (Below 30MHz)	±1.62 dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for spurious emissions test (18GHz to 40GHz)	4.67
Uncertainty for radio frequency	7×10^{-8}
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB
Temperature	±0.6°C
Humidity	±4.0 %
Volatage DC	±1.0%
Volatage (AC, <10KHz)	±1.5%

Note:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

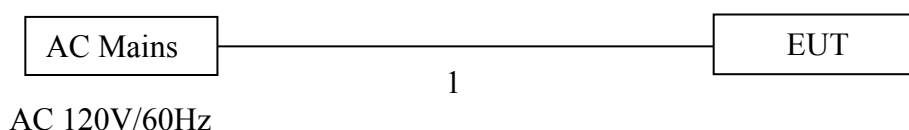
2.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.8m	AC Cable

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground.



(EUT: MULTICONNECTED WIRELESS LOUDSPEAKER)

2.6. Test Mode

Pre-scan has been combined all possible modulations and data rates to determine the worst case test mode, the worst case test mode was selected for the final test as listed below.

Test Item	Test Mode	Channel	Modulation	Data rate
6dB Bandwidth	IEEE 802.11a	149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	155	OFDM	MCS0
26dB Bandwidth	IEEE 802.11a	36/40/48/52/60/64/100/116/140	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122	OFDM	MCS0
99% Occupied Bandwidth	IEEE 802.11a	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0
Maximum Conducted Output Power	IEEE 802.11a	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0

Peak Power Spectral Density	IEEE 802.11a	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0
Unwanted Emissions and Band Edge(Above 1GHz)	IEEE 802.11a	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0
Unwanted Emissions Below 1GHz	IEEE 802.11a	100	OFDM	6Mbps
Frequency Stability	Unmodulation	36/149	N/A	N/A
AC Power Line Conducted Emissions	IEEE 802.11a	100	OFDM	6Mbps

Note:

1. In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7. Channel List

Band	Mode	Channel	Frequency (MHz)
U-NII-1	IEEE 802.11a & n HT20 & ac VHT20	36	5180
		40	5200
		44	5220
		48	5240
	IEEE 802.11n HT40 & ac VHT40	38	5190
		46	5230
	IEEE 802.11ac VHT80	42	5210
U-NII-2A	IEEE 802.11a & n HT20 & ac VHT20	52	5260
		56	5280
		60	5300
		64	5320
	IEEE 802.11n HT40 & ac VHT40	54	5270
		62	5310
	IEEE 802.11ac VHT80	58	5290
U-NII-2C	IEEE 802.11a & n HT20 & ac VHT20	100	5500
		104	5520
		108	5540
		112	5560
		116	5580
		120	5600
		124	5620
		128	5640
		132	5660
		136	5680
		140	5700
	IEEE 802.11n HT40 & ac VHT40	102	5510
		110	5550
		118	5590
		126	5630
		134	5670
	IEEE 802.11ac VHT80	106	5530
		122	5610
U-NII-3	IEEE 802.11a & n HT20 & ac VHT20	149	5745
		153	5765
		157	5785
		161	5805
		165	5825
	IEEE 802.11n HT40 & ac VHT40	151	5755
		159	5795
	IEEE 802.11ac VHT80	155	5775

2.8. Power Setting of Test Software

Software Name	ADB		
U-NII-1			
Frequency(MHz)	5180	5200	5240
IEEE 802.11a Setting	19	19	19
IEEE 802.11n HT20 Setting	17	17	17
IEEE 802.11ac VHT20 Setting	17	17	17
Frequency(MHz)	5190	5230	
IEEE 802.11n HT40 Setting	19	19	
IEEE 802.11ac VHT40 Setting	19	19	
Frequency(MHz)	5210		
IEEE 802.11ac VHT80 Setting	19		
U-NII-2A			
Frequency(MHz)	5260	5300	5320
IEEE 802.11a Setting	19	19	19
IEEE 802.11n HT20 Setting	19	19	19
IEEE 802.11ac VHT20 Setting	19	19	19
Frequency(MHz)	5270	5310	
IEEE 802.11n HT40 Setting	19	19	
IEEE 802.11ac VHT40 Setting	19	19	
Frequency(MHz)	5290		
IEEE 802.11ac VHT80 Setting	19		
U-NII-2C			
Frequency(MHz)	5500	5580	5700
IEEE 802.11a Setting	19	19	19
IEEE 802.11n HT20 Setting	19	19	19
IEEE 802.11ac VHT20 Setting	19	19	19
Frequency(MHz)	5510	5590	5670
IEEE 802.11n HT40 Setting	19	19	19
IEEE 802.11ac VHT40 Setting	19	19	19
Frequency(MHz)	5530	5610	
IEEE 802.11ac VHT80 Setting	19	19	
U-NII-3			
Frequency(MHz)	5745	5785	5825
IEEE 802.11a Setting	19	19	19
IEEE 802.11n HT20 Setting	19	19	19
IEEE 802.11ac VHT20 Setting	19	19	19
Frequency(MHz)	5755	5795	
IEEE 802.11n HT40 Setting	19	19	
IEEE 802.11ac VHT40 Setting	19	19	
Frequency(MHz)	5775		
IEEE 802.11ac VHT80 Setting	19		

Note: This information is provided by the applicant.

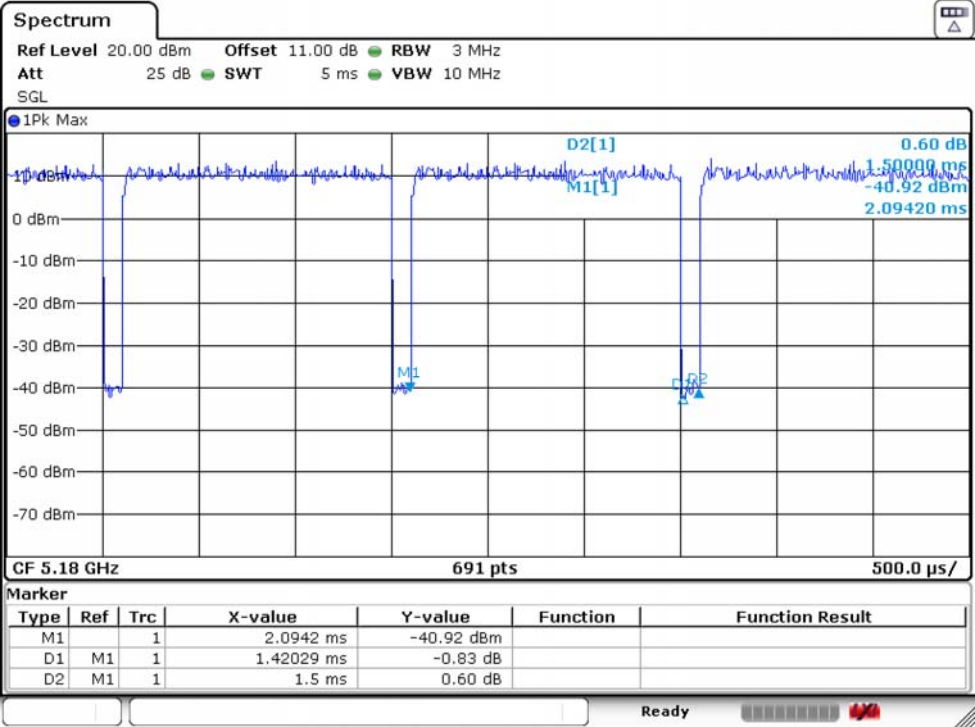
2.9. Duty Cycle of Test Signal

Temperature	23.4℃	Relative Humidity		51%	Test Voltage		AC 120V/60Hz
Mode	Frequency (MHz)	On time (ms)	Total Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T (Hz)	VBW Setting (Hz)
IEEE 802.11a	5180	1.42029	1.50000	94.69	0.24	704	704
IEEE 802.11n HT20	5180	1.33333	1.41304	94.36	0.25	750	750
IEEE 802.11ac VHT20	5190	1.33333	1.41304	94.36	0.25	750	750
IEEE 802.11n HT40	5180	0.68116	0.75362	90.39	0.44	1468	1468
IEEE 802.11ac VHT40	5190	0.68116	0.76812	88.68	0.52	1468	1468
IEEE 802.11ac VHT80	5210	0.34783	0.42754	81.36	0.90	2875	2875

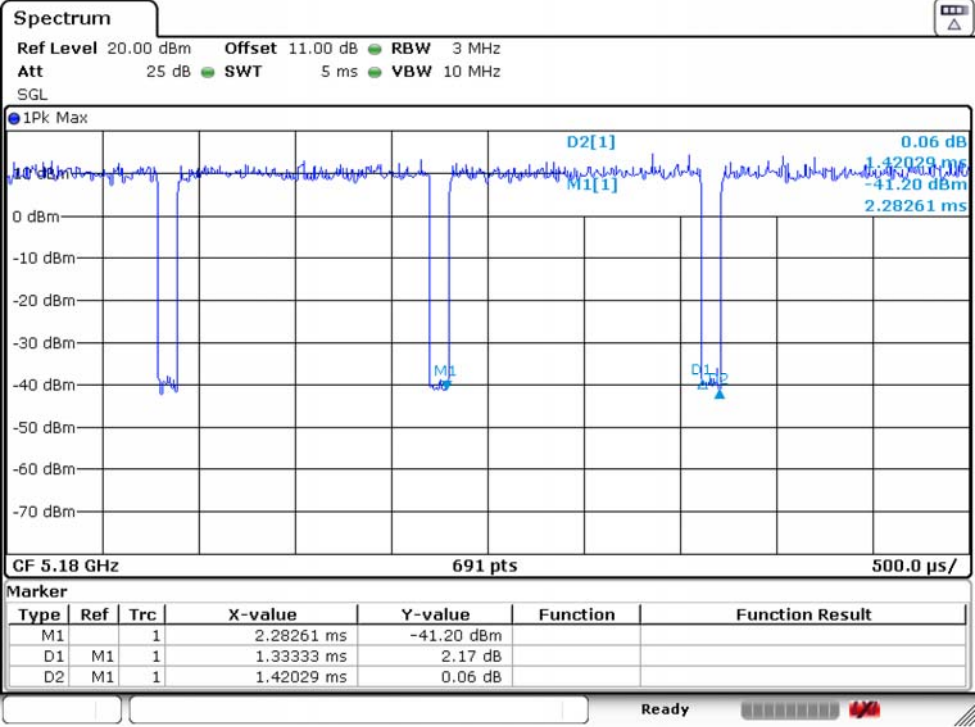
Note:

1. Duty Cycle=On Time/Total Time×100%.
2. Duty Factor=10×LOG(1/Duty Cycle).
3. If duty cycle <98 %, the conducted average output power and average power spectral density should be add duty factor.
4. If duty cycle ≥98 %,the EUT is consider to be transmitting continuously,the conducted average output power and average power spectral density no need to add duty factor.
5. The on-time time is transmission duration(T).
6. The VBW Setting is use for RMS measurement in Unwanted Emissions and Band Edge(Above 1GHz) Test.

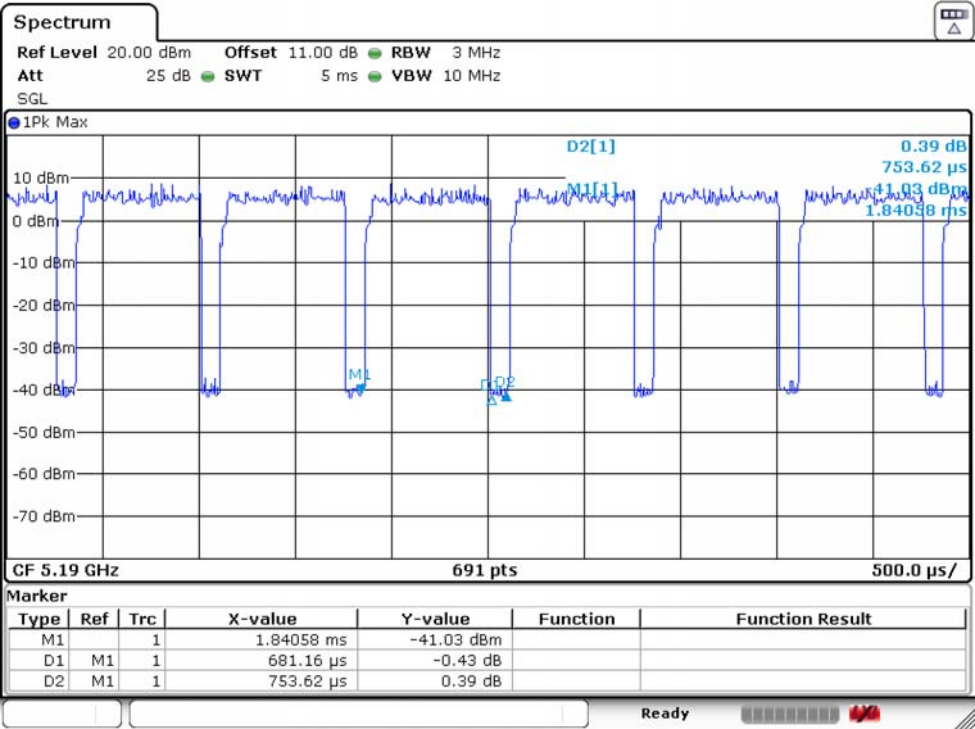
IEEE 802.11a 5180MHz



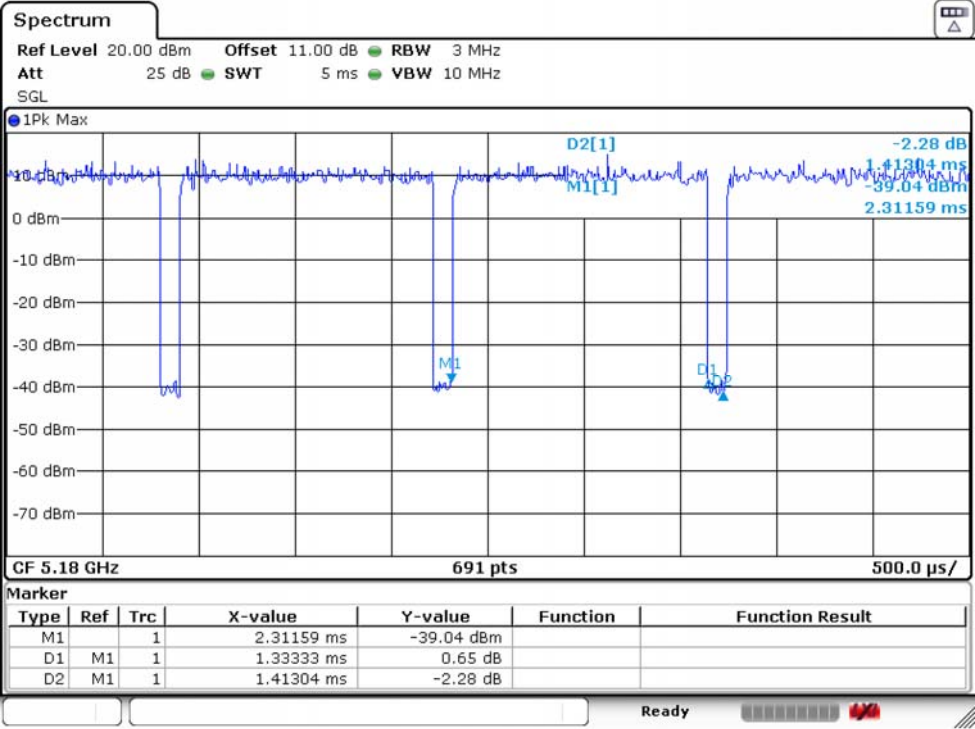
IEEE 802.11n HT20 5180MHz



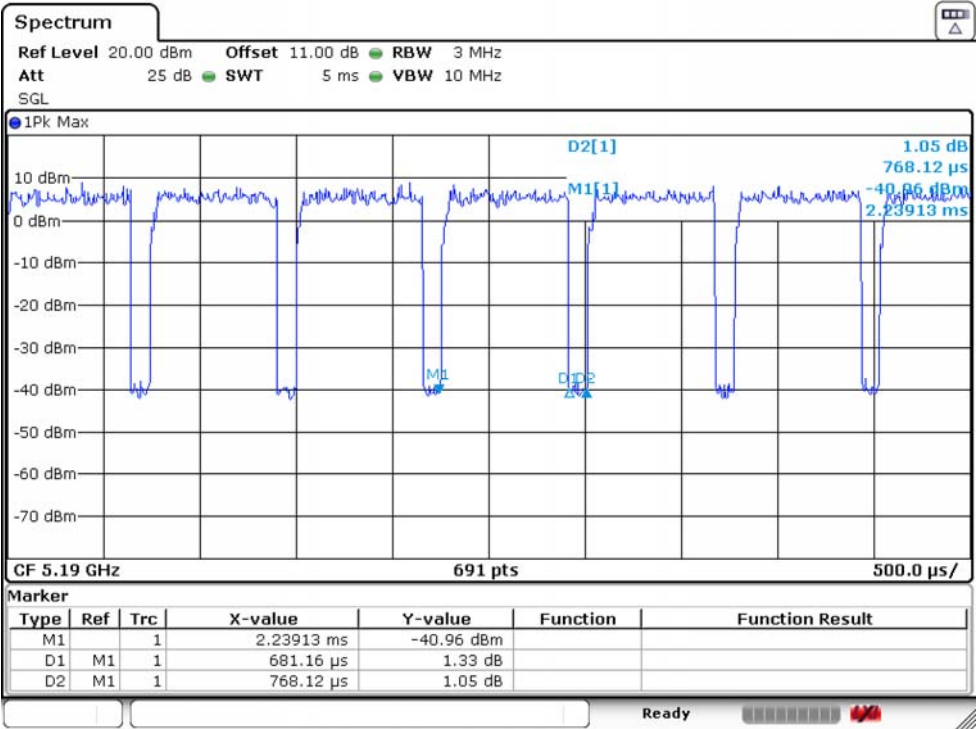
IEEE 802.11n HT40 5190MHz



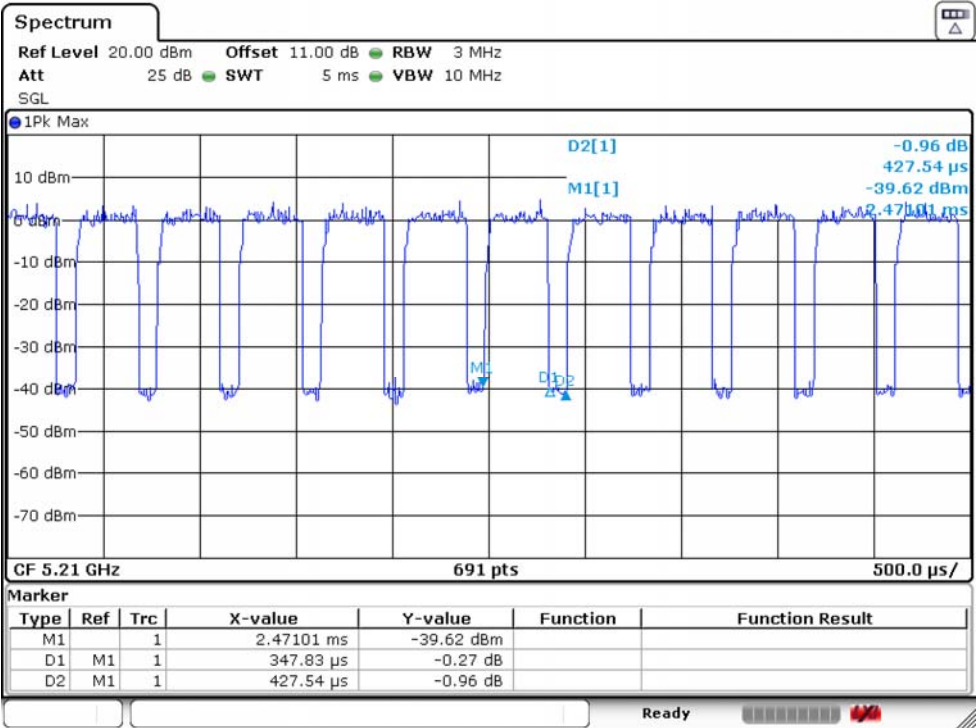
IEEE 802.11ac VHT20 5180MHz



IEEE 802.11ac VHT40 5190MHz



IEEE 802.11ac VHT80 5210MHz



2.10. Test Equipment List

For AC power conducted emissions test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 13,21	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 13,21	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 13,21	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emissions test(9KHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 13,21	1 Year
Active Loop Antenna	SCHWARZB ECK	FMZB 1519B	EST-E054	LISAI	June 13,21	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test(30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 13,21	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 13,21	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emissions test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	EST-E031	LISAI	June 13,21	1 Year
Signal Amplifier	SCHWARZB ECK	BBV9718	EST-E032	LISAI	June 13,21	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	LISAI	July 19,21	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

For connect EUT antenna terminal test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 8997	Rohde & Schwarz	/	/	/	/	/
Open Switch and Control Unit	Rohde & Schwarz	OSP-B157WB	EST-E036	LISAI	June 13,21	1 Year
Signal and Spectrum Analyzer	Rohde & Schwarz	FSV	EST-E037	LISAI	June 13,21	1 Year
Signal Generator	Rohde & Schwarz	SMB100A	EST-E038	LISAI	June 13,21	1 Year
Vector Signal Generator	Rohde & Schwarz	SMBV100A	EST-E039	LISAI	June 13,21	1 Year
Test Software	Rohde & Schwarz	WMS32	V10.50.00	N/A	N/A	N/A
Temperature controller	Terchy	MHQ	EST-E101	LISAI	June 13,21	1 Year

3. 6dB BANDWIDTH & 26dB BANDWIDTH & 99% OCCUPIED BANDWIDTH

3.1. Limit

Band	Frequency (MHz)	Test Item	Limit
U-NII-1	5150-5250	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2A	5250-5350	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2C	5470-5725	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-3	5725-5850	6dB Bandwidth&99% Occupied Bandwidth	6dB Bandwidth $\geq$ 500KHz

3.2. Test Setup



3.3. Spectrum Analyzer Setting

6dB Bandwidth	
Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

26dB Bandwidth	
Spectrum Parameters	Setting
RBW	approximately 1% of the emission bandwidth
VBW	>RBW
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

99% Occupied Bandwidth	
Spectrum Parameters	Setting
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Span	between 1.5 times and 5.0 times the OBW
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

3.4. Test Procedure

For 26dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 6dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 99% Occupied Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the 99% power bandwidth function to measure bandwidth.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

3.5. Test Result

Temperature	23.4℃	Relative Humidity		51%	Test Voltage	AC 120V/60Hz
26dB Bandwidth&99% Occupied Bandwidth						
BAND	Test Mode	Fre (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Calculate Power Limit (W)	Calculate Power Limit (dBm)
U-NII-1	IEEE 802.11a	5180	21.534	16.903		
		5200	21.592	16.863		
		5240	21.476	16.903		
	IEEE 802.11n HT20	5180	21.650	18.022		
		5200	21.071	17.862		
		5240	21.534	17.782		
	IEEE 802.11ac VHT20	5180	21.766	17.822		
		5200	21.476	17.862		
		5240	21.766	17.822		
	IEEE 802.11n HT40	5190	40.170	36.683		
		5230	40.410	36.683		
	IEEE 802.11ac VHT40	5190	40.060	36.683		
		5230	40.060	36.603		
	IEEE 802.11ac VHT80	5210	81.970	75.604		
U-NII-2A	IEEE 802.11a	5260	21.302	16.783	0.2500	23.98
		5300	21.476	16.743	0.2500	23.98
		5320	21.476	16.823	0.2500	23.98
	IEEE 802.11n HT20	5260	21.360	17.862	0.2500	23.98
		5300	21.418	17.982	0.2500	23.98
		5320	21.534	17.782	0.2500	23.98
	IEEE 802.11ac VHT20	5260	21.418	18.182	0.2500	23.98
		5300	21.650	18.182	0.2500	23.98
		5320	21.650	17.822	0.2500	23.98
	IEEE 802.11n HT40	5270	40.060	36.683	0.2500	23.98
		5310	40.060	36.683	0.2500	23.98
	IEEE 802.11ac VHT40	5270	40.060	36.603	0.2500	23.98
		5310	39.940	36.683	0.2500	23.98
	IEEE 802.11ac VHT80	5290	81.970	75.604	0.2500	23.98

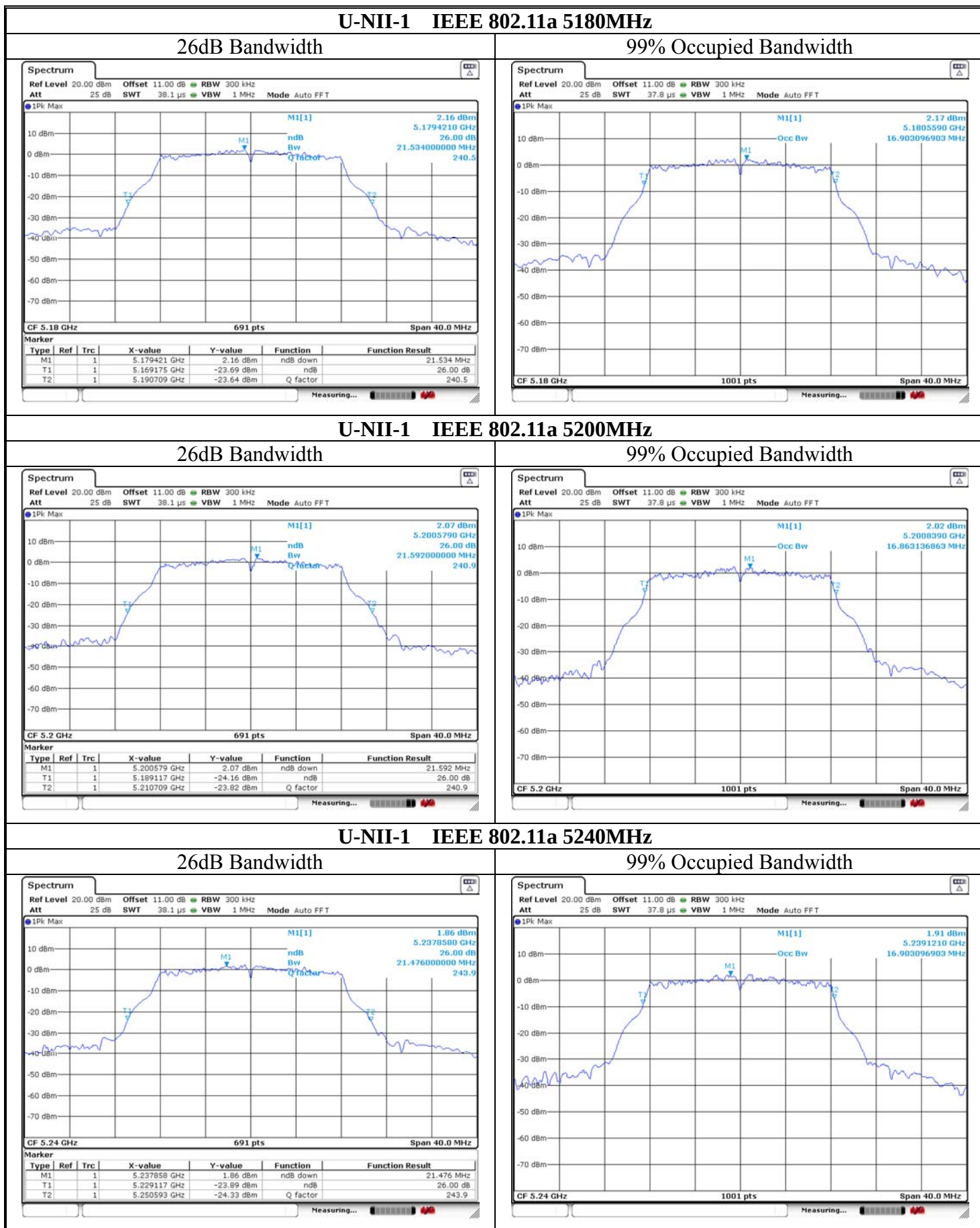
BAND	Test Mode	Fre (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Calculate Power Limit (W)	Calculate Power Limit (dBm)
U-NII-2C	IEEE 802.11a	5500	21.302	17.103	0.2500	23.98
		5580	21.418	16.903	0.2500	23.98
		5700	21.650	17.023	0.2500	23.98
	IEEE 802.11n HT20	5500	21.418	18.102	0.2500	23.98
		5580	21.360	17.903	0.2500	23.98
		5700	21.129	17.782	0.2500	23.98
	IEEE 802.11ac VHT20	5500	21.476	18.102	0.2500	23.98
		5580	21.534	17.982	0.2500	23.98
		5700	21.360	17.982	0.2500	23.98
	IEEE 802.11n HT40	5510	40.170	36.523	0.2500	23.98
		5590	40.170	36.523	0.2500	23.98
		5670	40.060	36.603	0.2500	23.98
	IEEE 802.11ac VHT40	5510	40.170	36.603	0.2500	23.98
		5590	40.170	36.683	0.2500	23.98
		5670	40.060	36.683	0.2500	23.98
	IEEE 802.11ac VHT80	5530	81.270	75.604	0.2500	23.98
		5610	81.510	75.445	0.2500	23.98

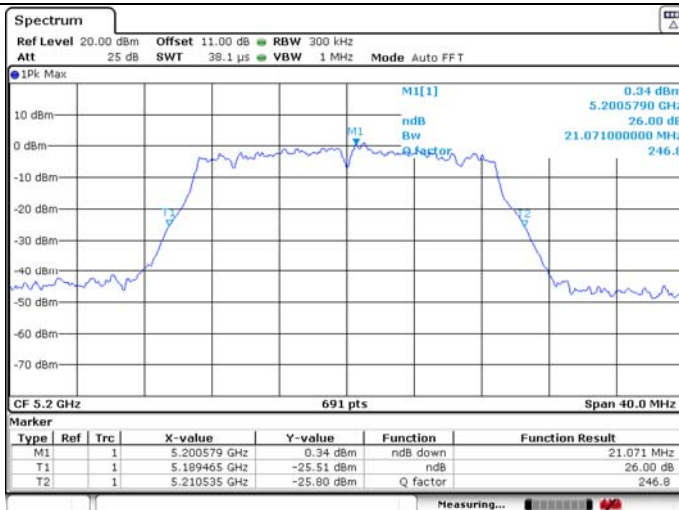
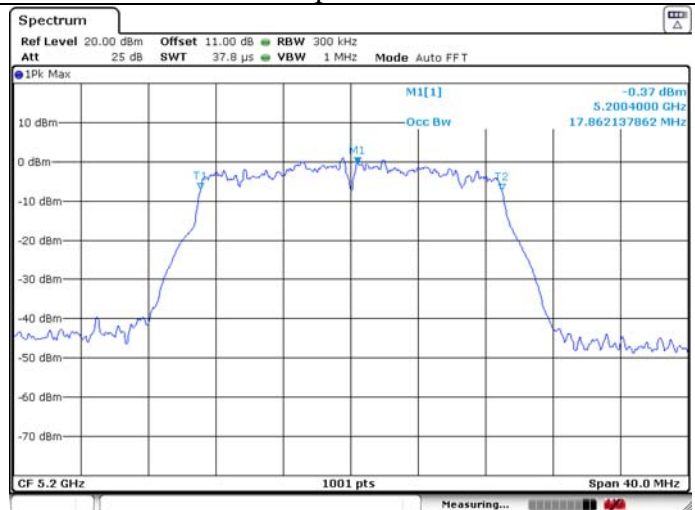
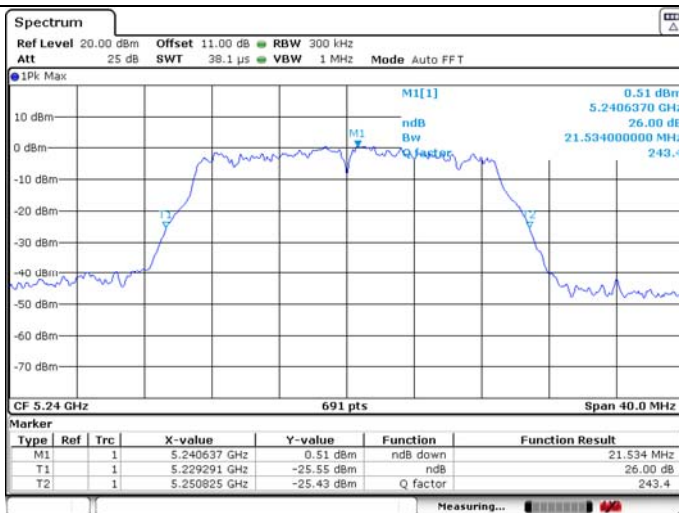
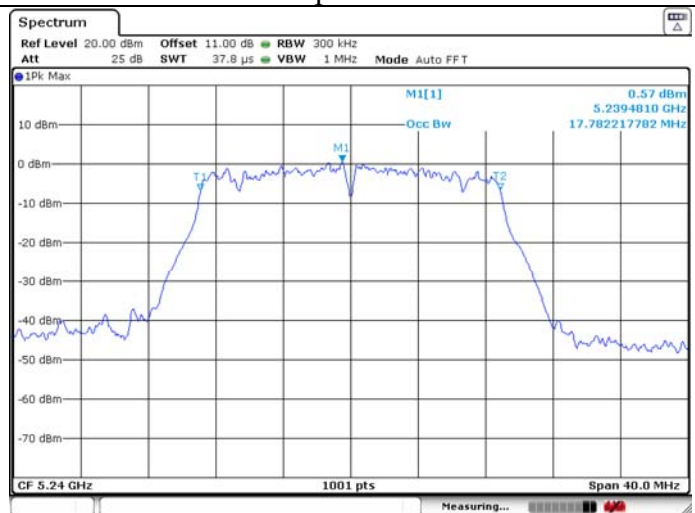
Temperature	23.4℃	Relative Humidity	51%	Test Voltage	AC 120V/60Hz	
6dB Bandwidth&99% Occupied Bandwidth						
BAND	Test Mode	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	6dB BW Min Limit (MHz)	Result
U-NII-3	IEEE 802.11a	5745	16.344	16.823	0.5	PASS
		5785	16.344	16.743	0.5	PASS
		5825	16.344	16.823	0.5	PASS
	IEEE 802.11n HT20	5745	17.582	17.902	0.5	PASS
		5785	17.582	17.982	0.5	PASS
		5825	17.542	17.982	0.5	PASS
	IEEE 802.11ac VHT20	5745	17.542	17.902	0.5	PASS
		5785	17.542	18.062	0.5	PASS
		5825	17.582	17.906	0.5	PASS
	IEEE 802.11n HT40	5755	36.284	36.603	0.5	PASS
		5795	36.044	36.683	0.5	PASS
	IEEE 802.11ac VHT40	5755	36.284	36.603	0.5	PASS
		5795	36.044	36.683	0.5	PASS
	IEEE 802.11ac VHT80	5775	74.970	75.445	0.5	PASS

Note :

For Band U-NII-2A and U-NII-2C, the maximum conducted output power limit is 250mw or $11+10 \times \log B$, which is lesser, where B is the 26dB Bandwidth in MHz. So in this section, the maximum conducted output power limit can calculate with 26dB Bandwidth.

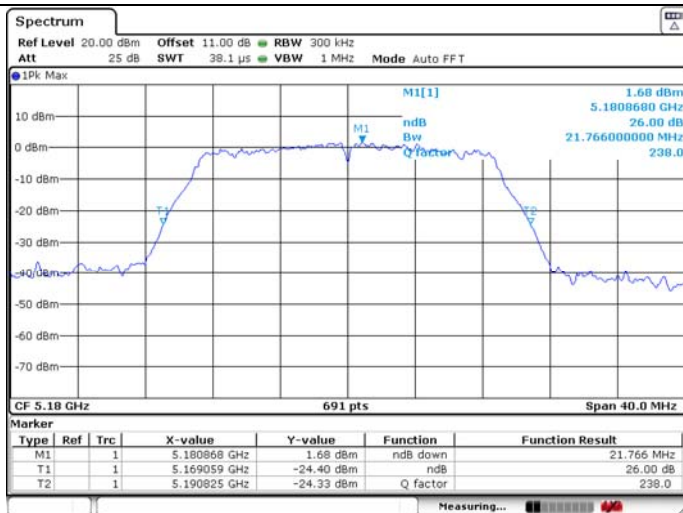
3.6. Test Result



U-NII-1 IEEE 802.11n HT20 5180MHz**26dB Bandwidth****99% Occupied Bandwidth****U-NII-1 IEEE 802.11n HT20 5200MHz****26dB Bandwidth****99% Occupied Bandwidth****U-NII-1 IEEE 802.11n HT20 5240MHz****26dB Bandwidth****99% Occupied Bandwidth**

U-NII-1 IEEE 802.11ac VHT20 5180MHz

26dB Bandwidth

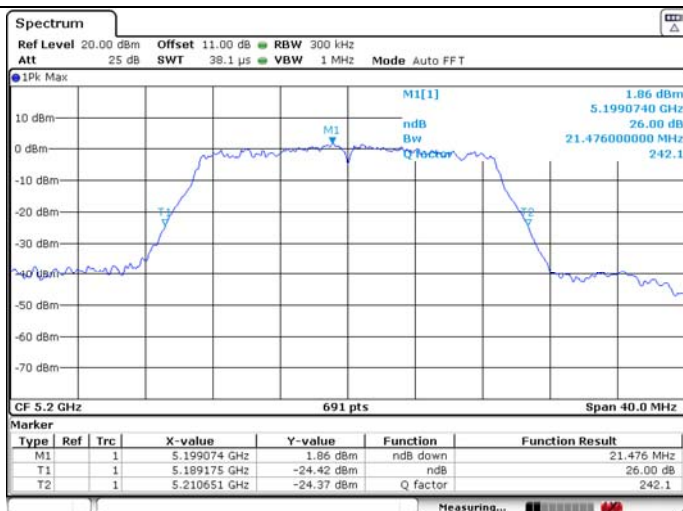


99% Occupied Bandwidth



U-NII-1 IEEE 802.11ac VHT20 5200MHz

26dB Bandwidth

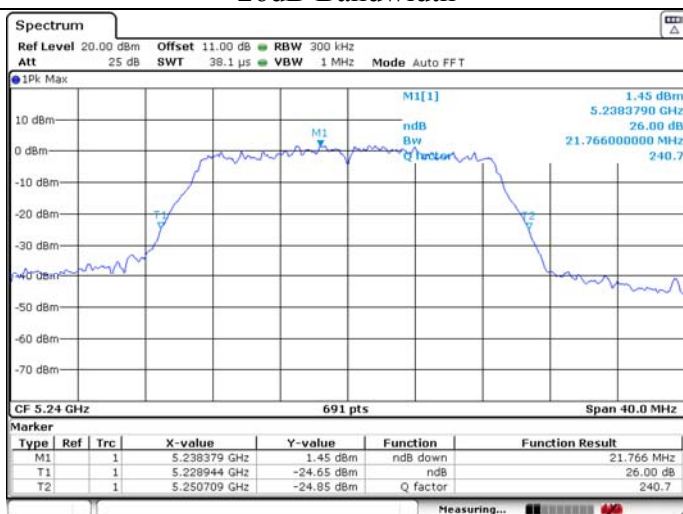


99% Occupied Bandwidth



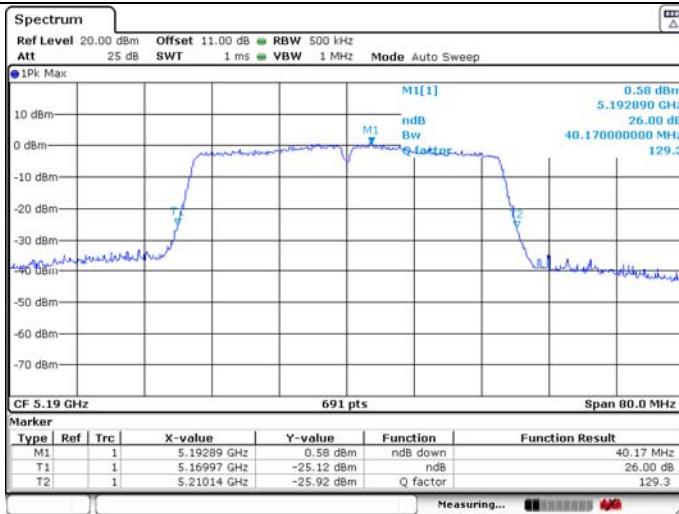
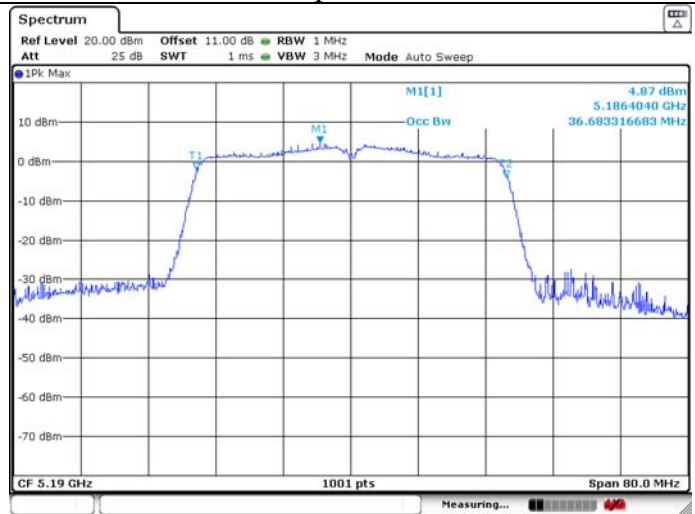
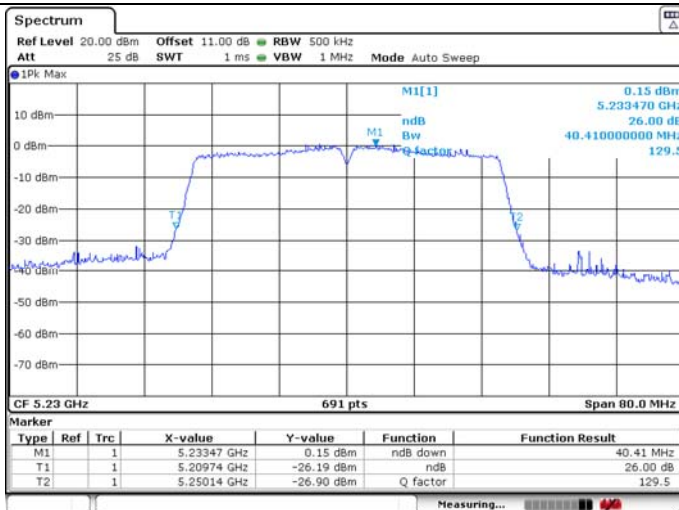
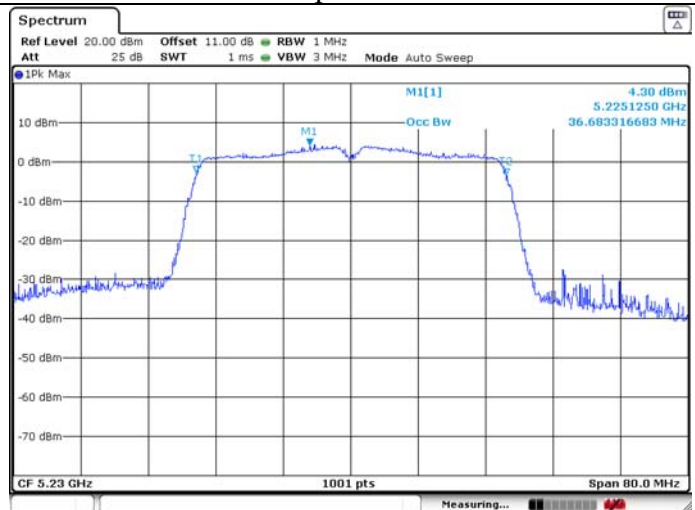
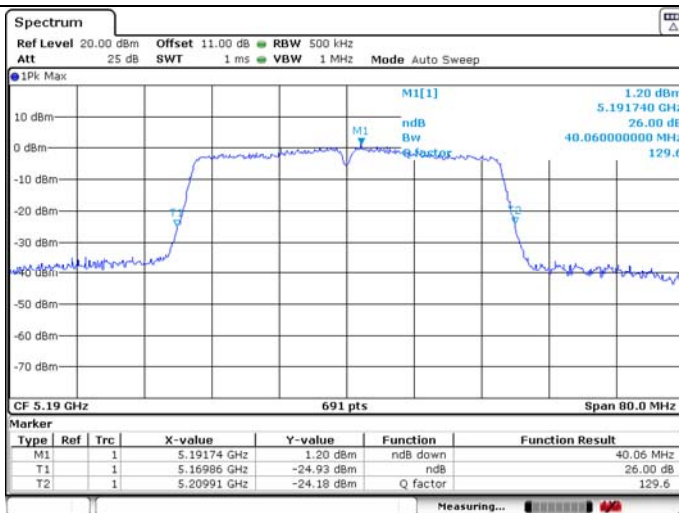
U-NII-1 IEEE 802.11ac VHT20 5240MHz

26dB Bandwidth



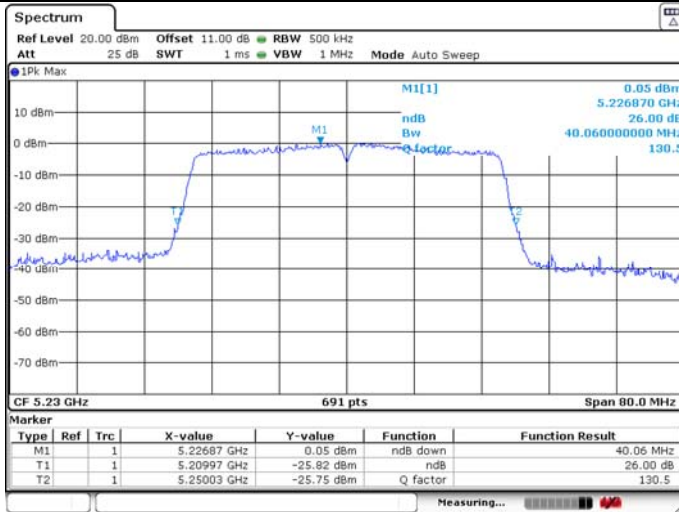
99% Occupied Bandwidth



U-NII-1 IEEE 802.11n HT40 5190MHz**26dB Bandwidth****99% Occupied Bandwidth****U-NII-1 IEEE 802.11n HT40 5230MHz****26dB Bandwidth****99% Occupied Bandwidth****U-NII-1 IEEE 802.11ac VHT40 5190MHz****26dB Bandwidth****99% Occupied Bandwidth**

U-NII-1 IEEE 802.11ac VHT40 5230MHz

26dB Bandwidth

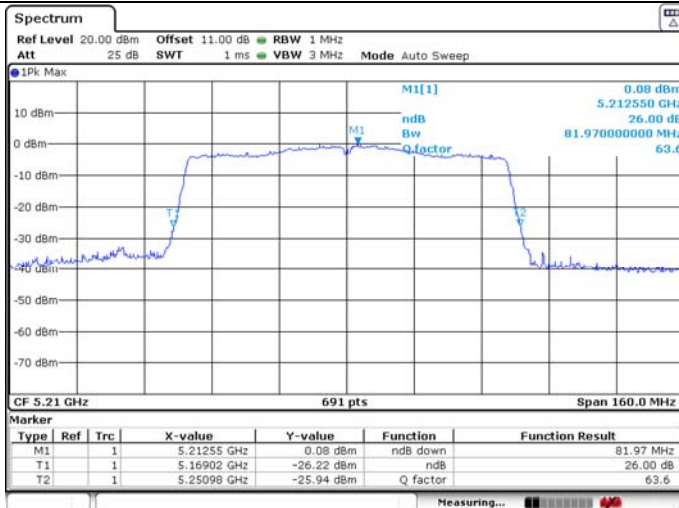


99% Occupied Bandwidth



U-NII-1 IEEE 802.11ac VHT80 5210MHz

26dB Bandwidth



99% Occupied Bandwidth



U-NII-2A IEEE 802.11a 5260MHz

26dB Bandwidth

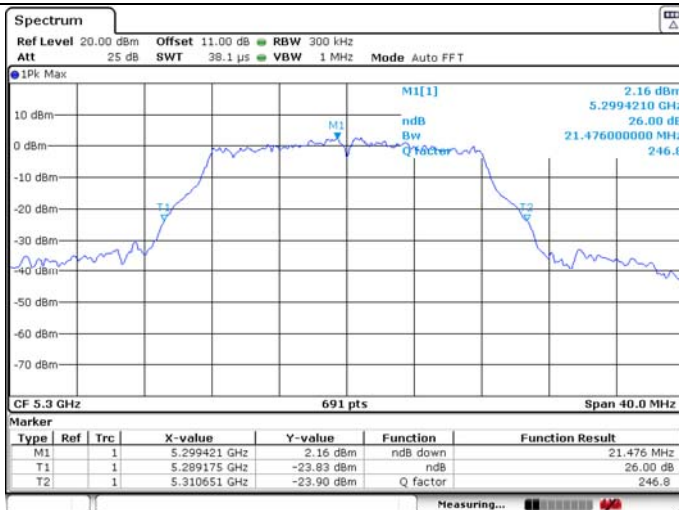


99% Occupied Bandwidth



U-NII-2A IEEE 802.11a 5300MHz

26dB Bandwidth

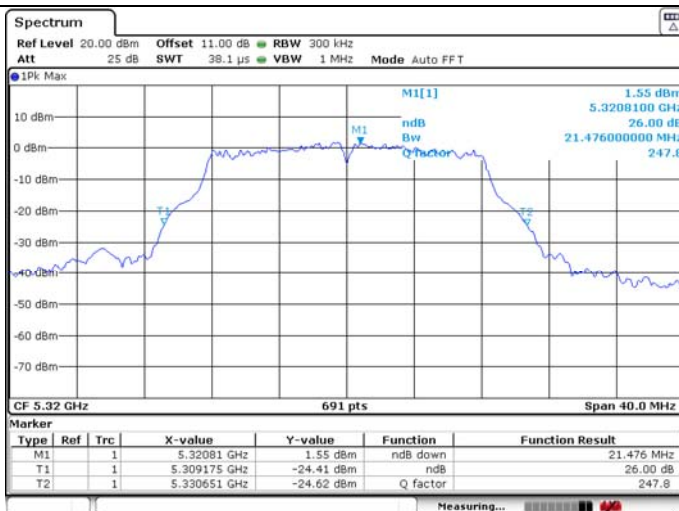


99% Occupied Bandwidth



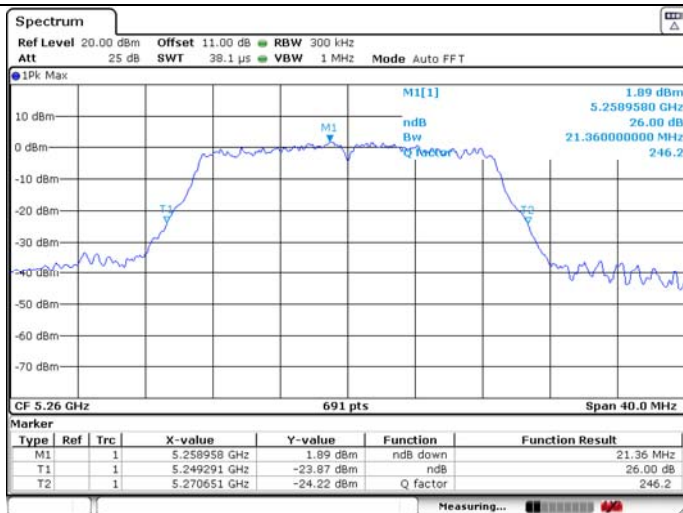
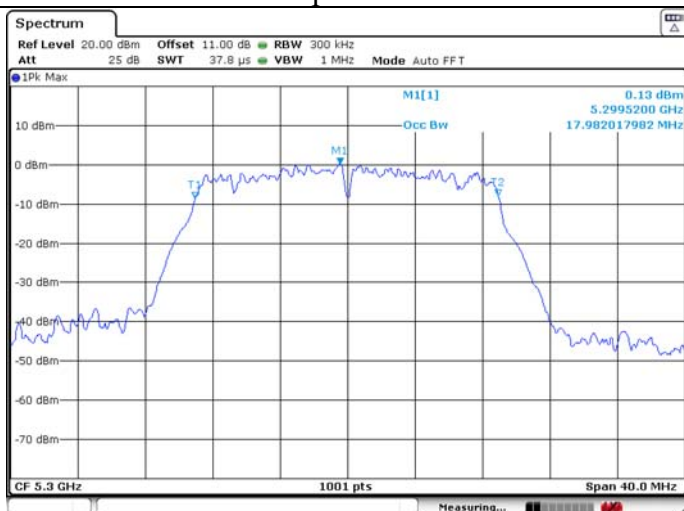
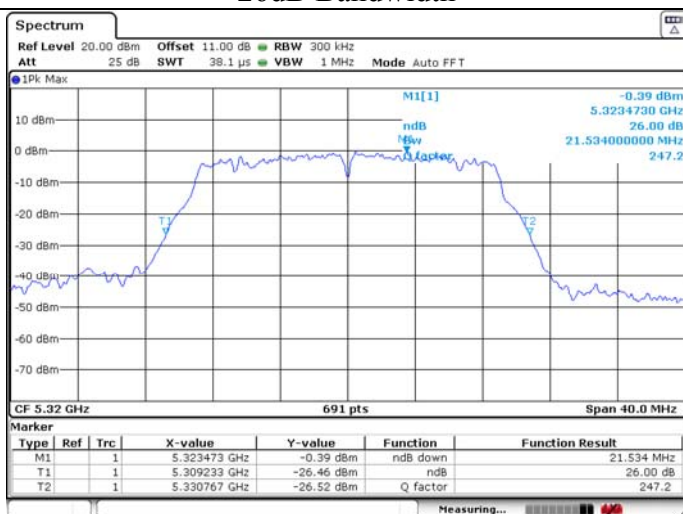
U-NII-2A IEEE 802.11a 5320MHz

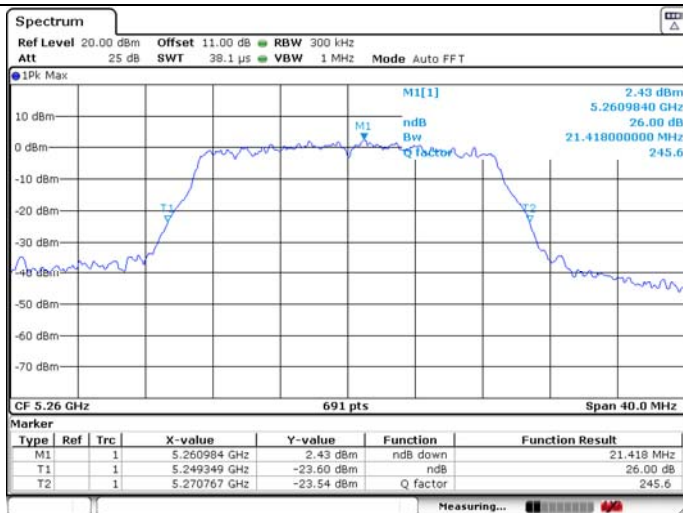
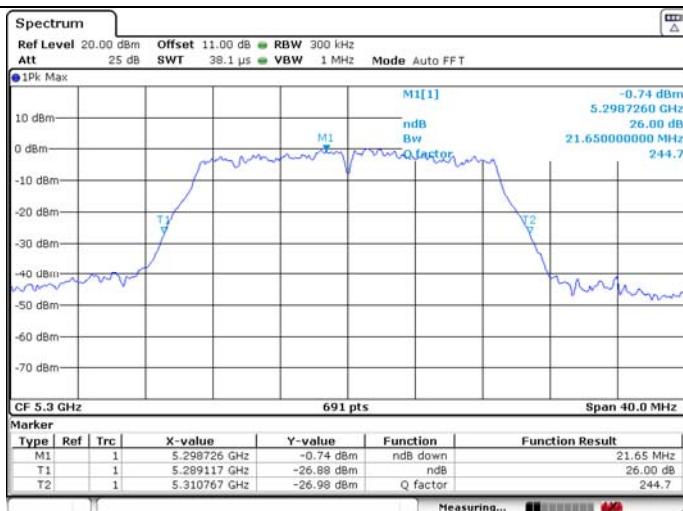
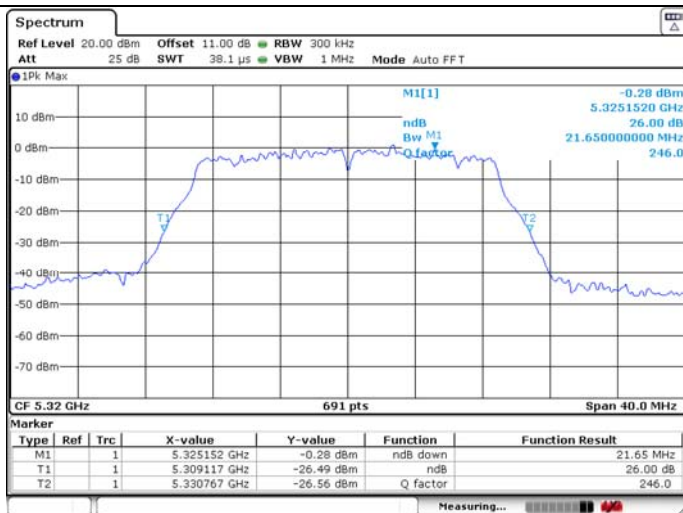
26dB Bandwidth

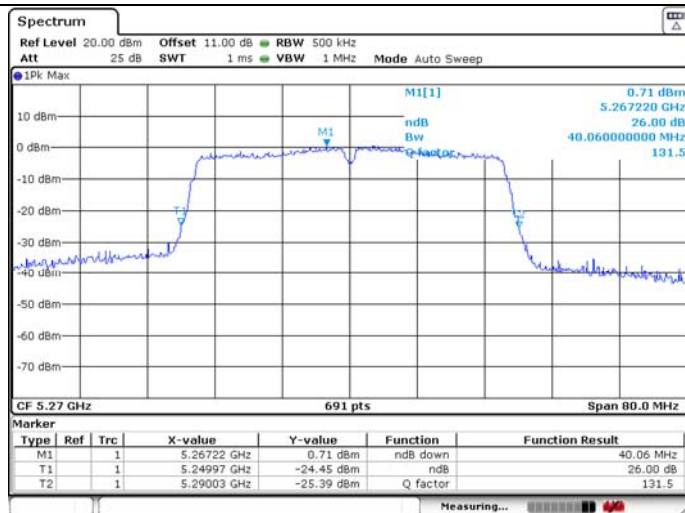
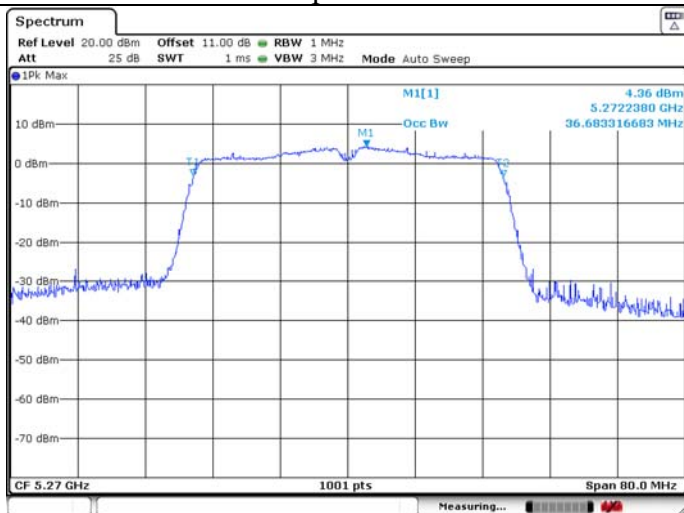
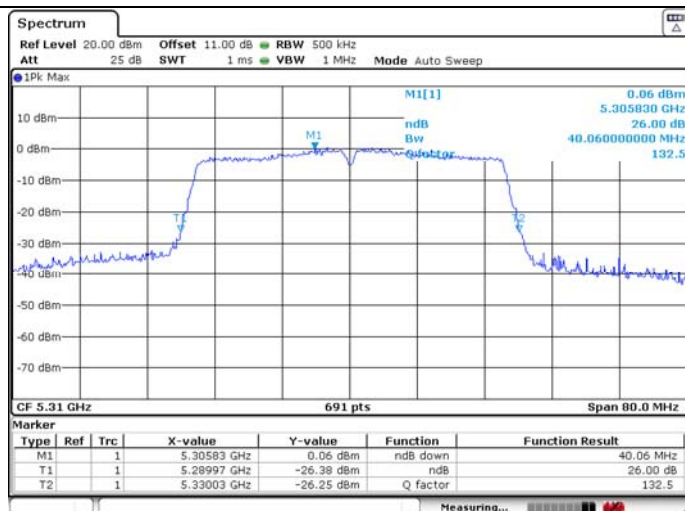
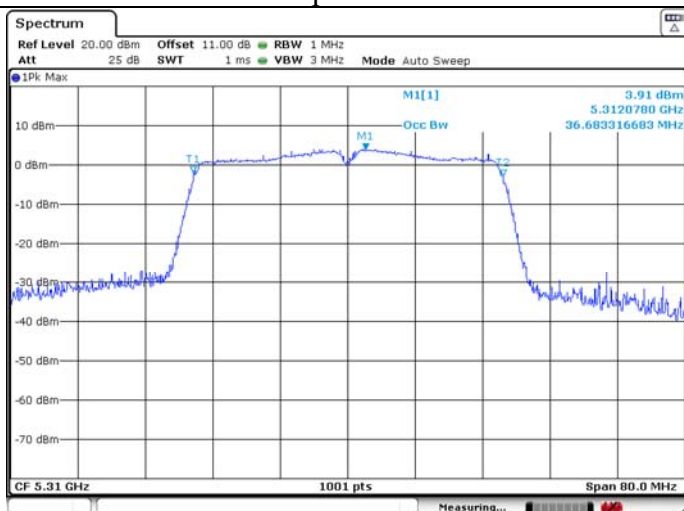
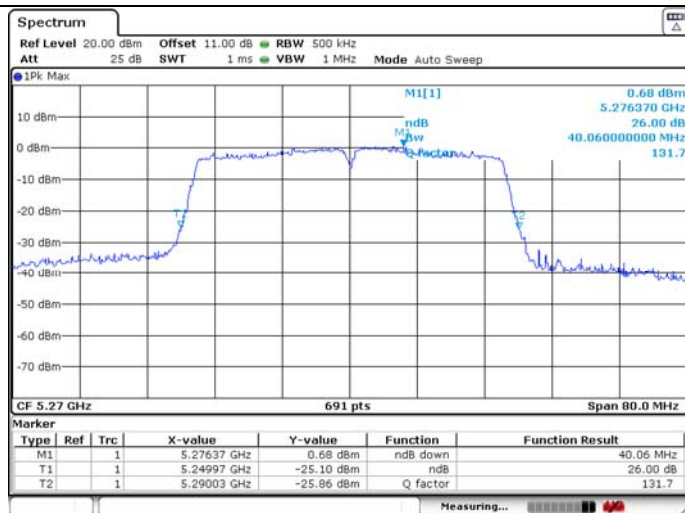


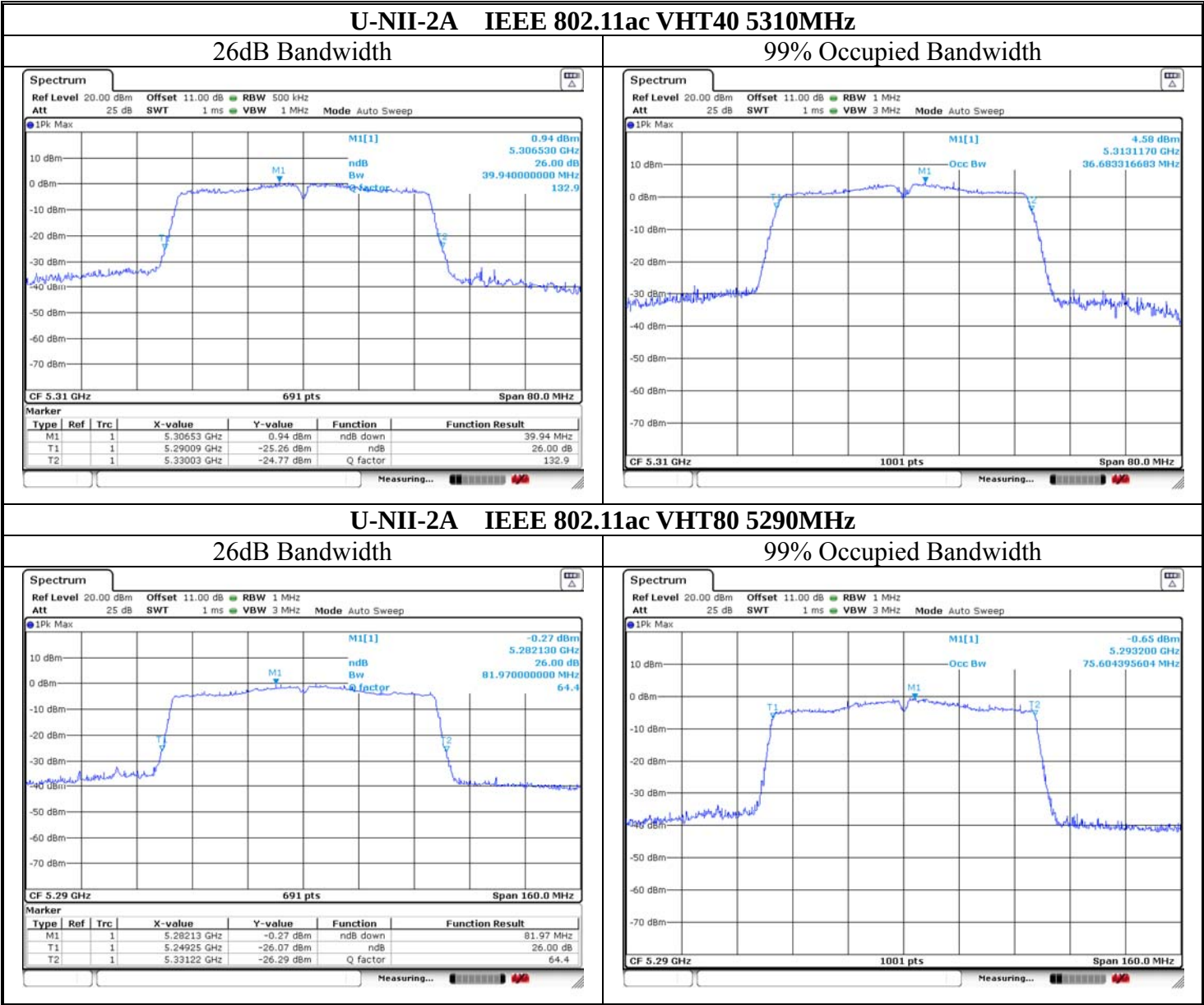
99% Occupied Bandwidth



U-NII-2A IEEE 802.11n HT20 5260MHz**26dB Bandwidth****99% Occupied Bandwidth****U-NII-2A IEEE 802.11n HT20 5300MHz****26dB Bandwidth****99% Occupied Bandwidth****U-NII-2A IEEE 802.11n HT20 5320MHz****26dB Bandwidth****99% Occupied Bandwidth**

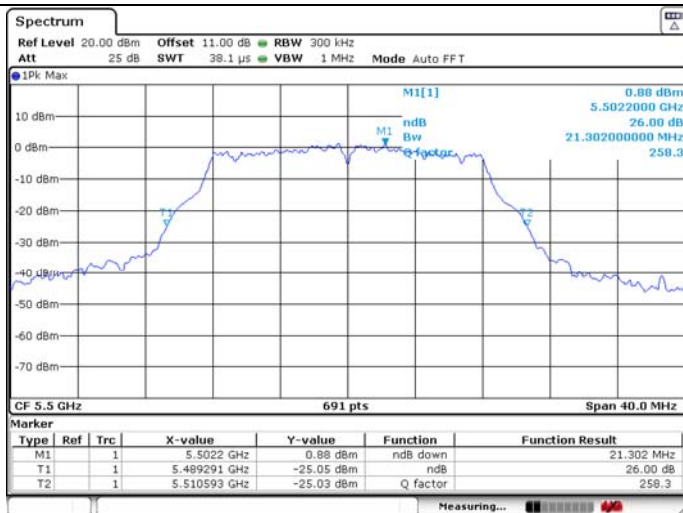
U-NII-2A IEEE 802.11ac VHT20 5260MHz**26dB Bandwidth****99% Occupied Bandwidth****U-NII-2A IEEE 802.11ac VHT20 5300MHz****26dB Bandwidth****99% Occupied Bandwidth****U-NII-2A IEEE 802.11ac VHT20 5320MHz****26dB Bandwidth****99% Occupied Bandwidth**

U-NII-2A IEEE 802.11n HT40 5270MHz**26dB Bandwidth****99% Occupied Bandwidth****U-NII-2A IEEE 802.11n HT40 5310MHz****26dB Bandwidth****99% Occupied Bandwidth****U-NII-2A IEEE 802.11ac VHT40 5270MHz****26dB Bandwidth****99% Occupied Bandwidth**



U-NII-2C IEEE 802.11a 5500MHz

26dB Bandwidth

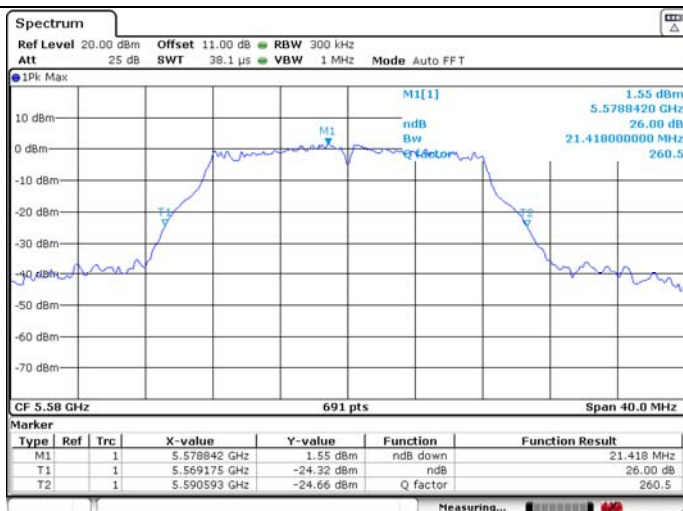


99% Occupied Bandwidth



U-NII-2C IEEE 802.11a 5580MHz

26dB Bandwidth

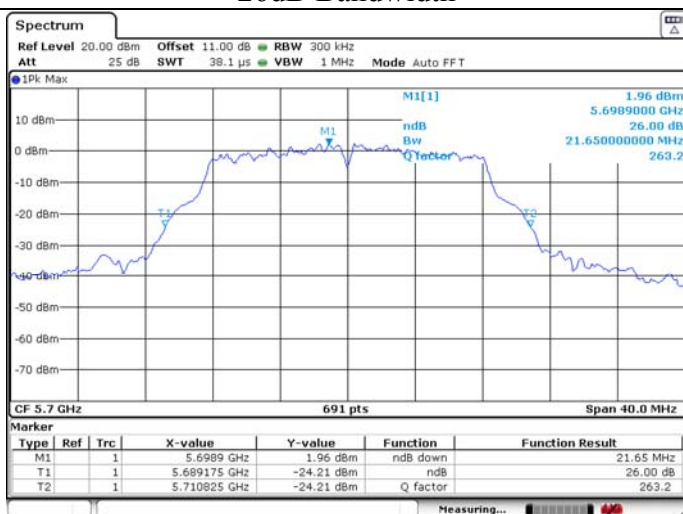


99% Occupied Bandwidth

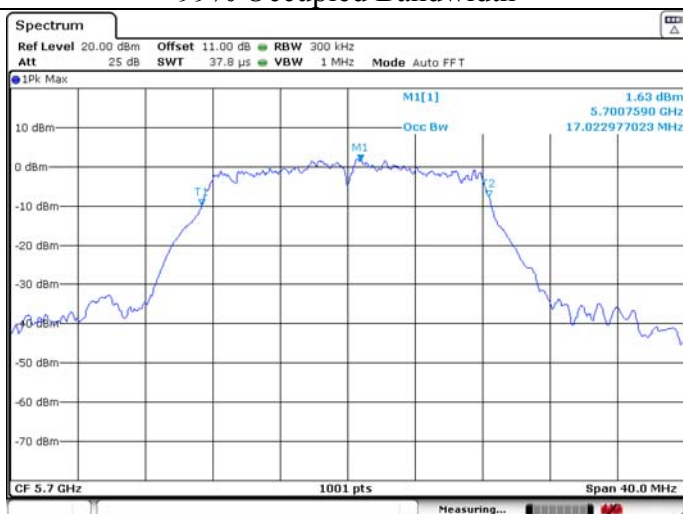


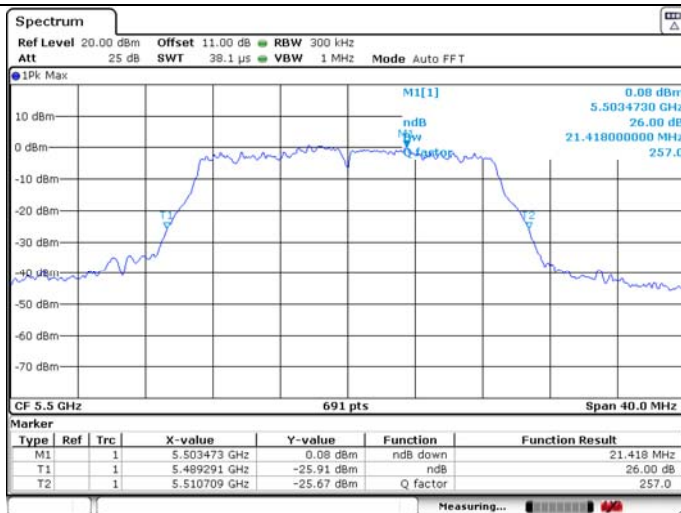
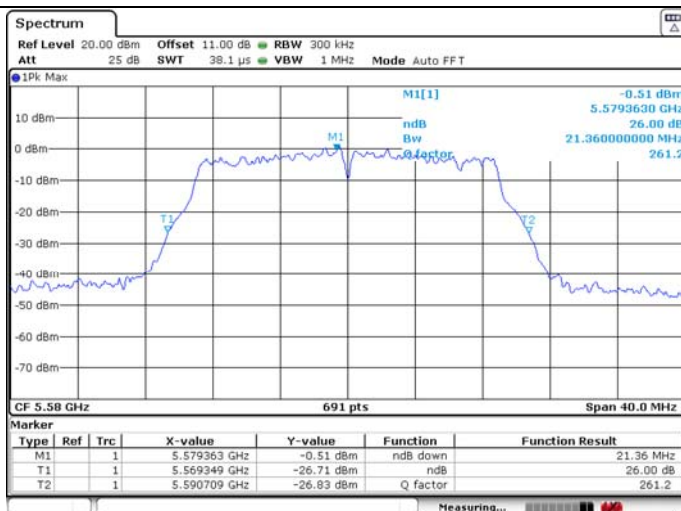
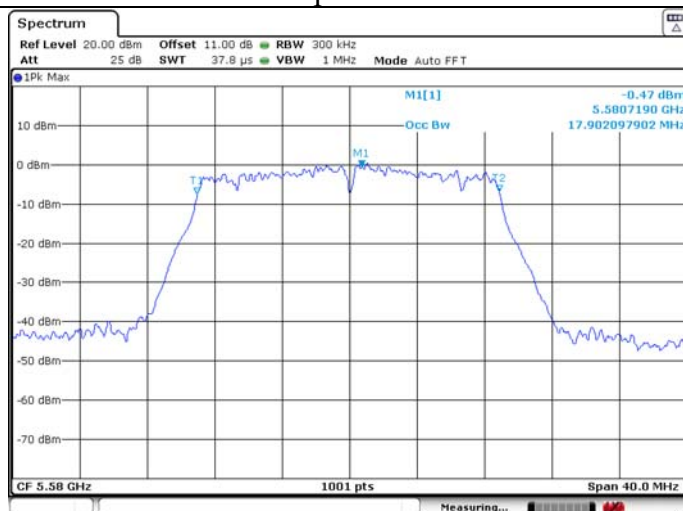
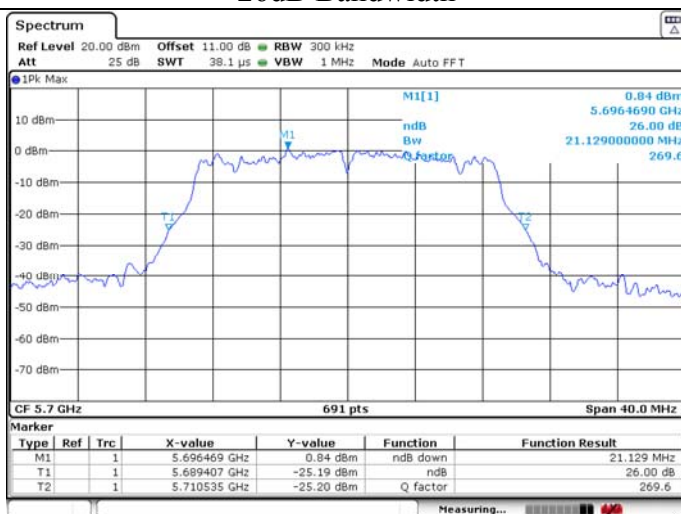
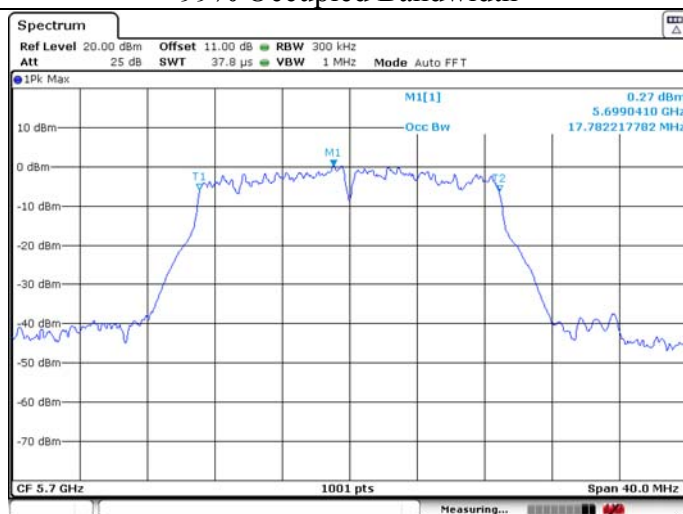
U-NII-2C IEEE 802.11a 5700MHz

26dB Bandwidth



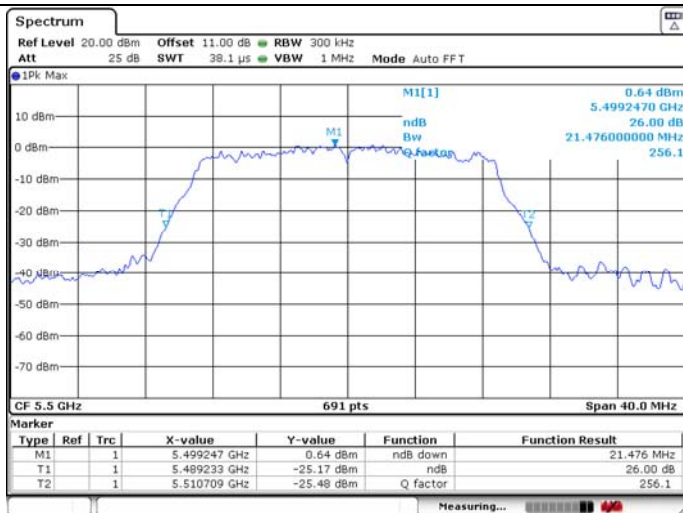
99% Occupied Bandwidth



U-NII-2C IEEE 802.11n HT20 5500MHz**26dB Bandwidth****99% Occupied Bandwidth****U-NII-2C IEEE 802.11n HT20 5580MHz****26dB Bandwidth****99% Occupied Bandwidth****U-NII-2C IEEE 802.11n HT20 5700MHz****26dB Bandwidth****99% Occupied Bandwidth**

U-NII-2C IEEE 802.11ac VHT20 5500MHz

26dB Bandwidth

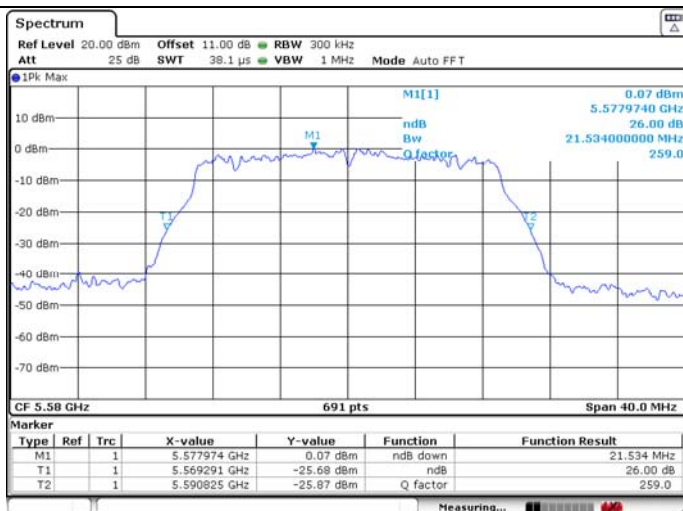


99% Occupied Bandwidth

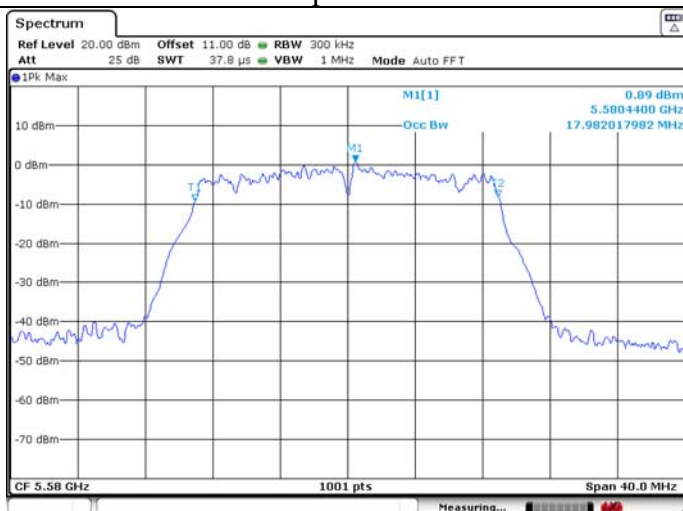


U-NII-2C IEEE 802.11ac VHT20 5580MHz

26dB Bandwidth

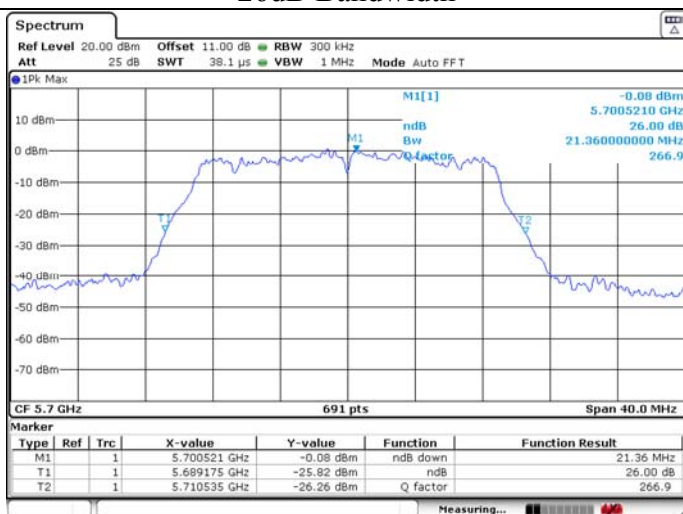


99% Occupied Bandwidth



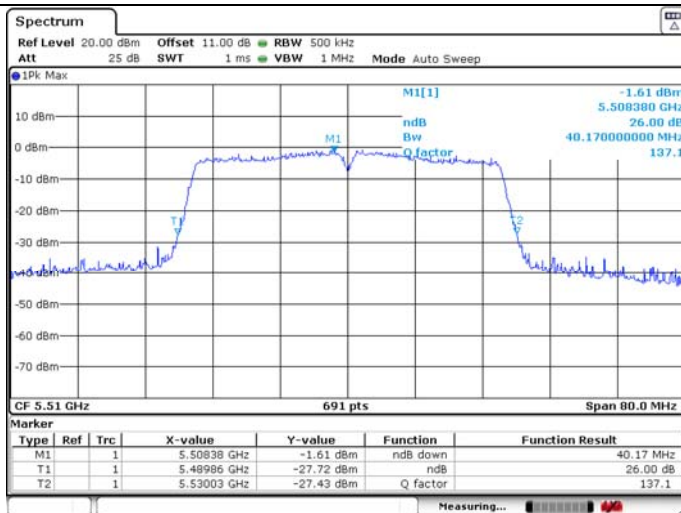
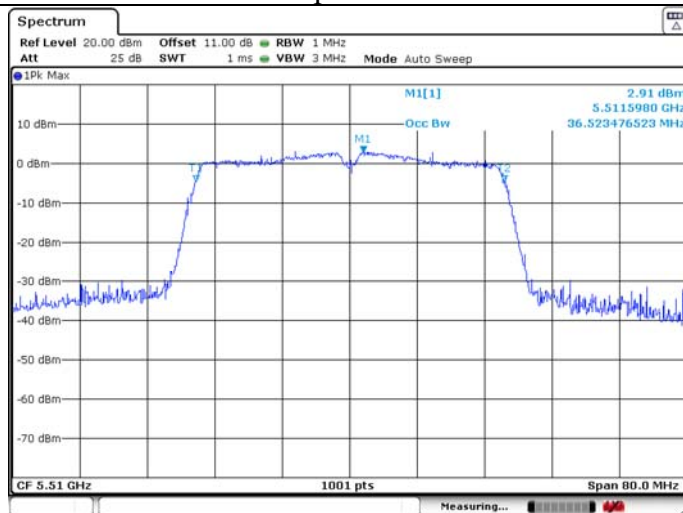
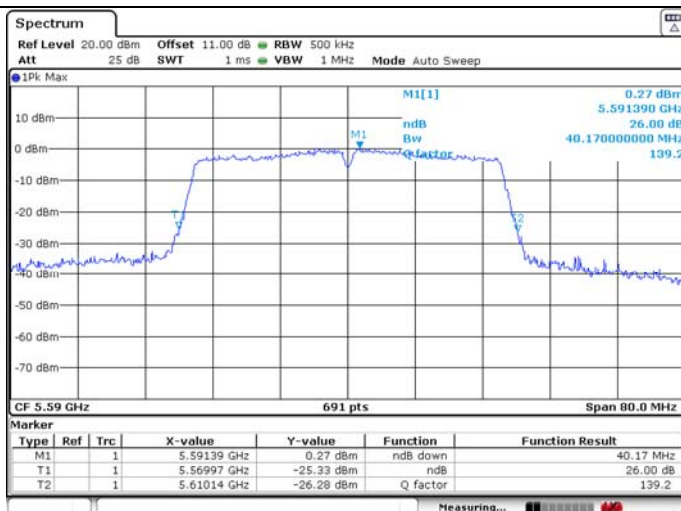
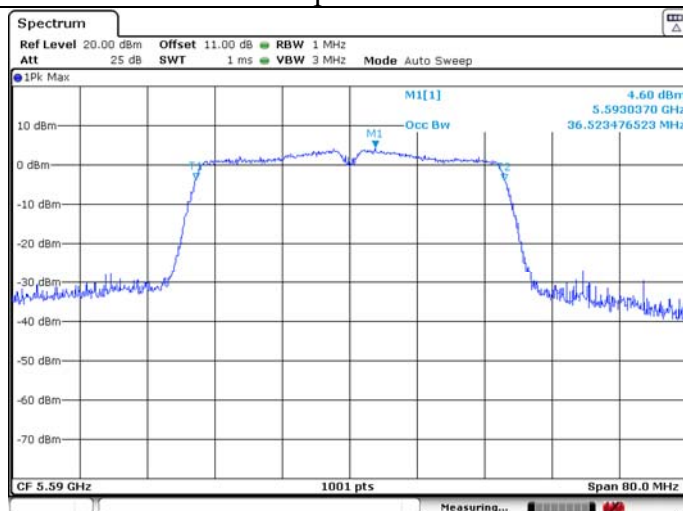
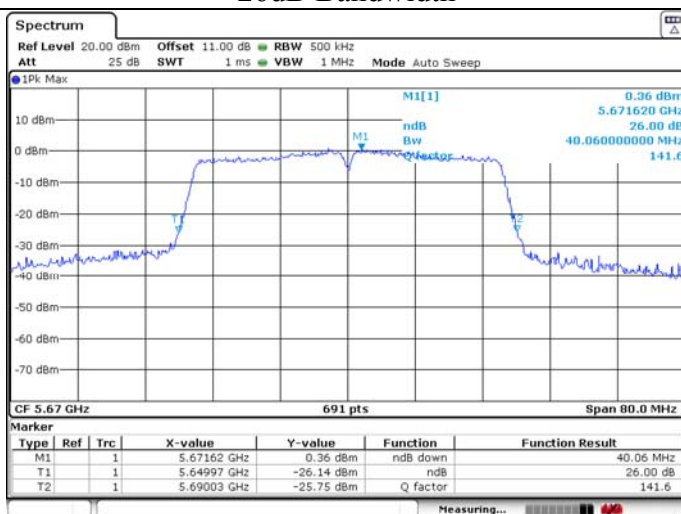
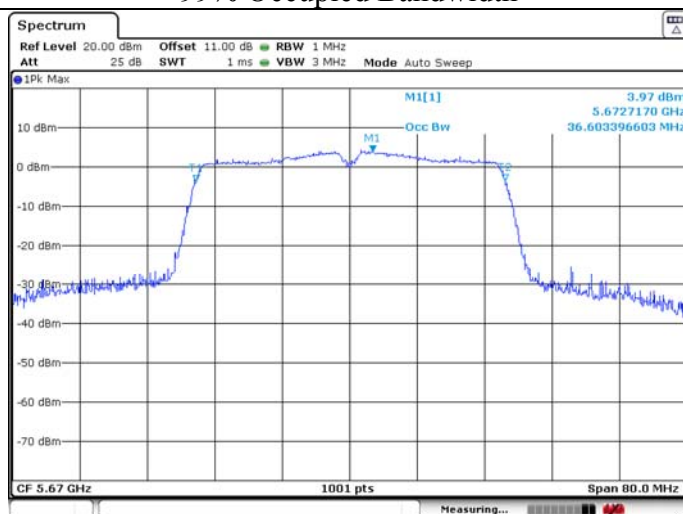
U-NII-2C IEEE 802.11ac VHT20 5700MHz

26dB Bandwidth



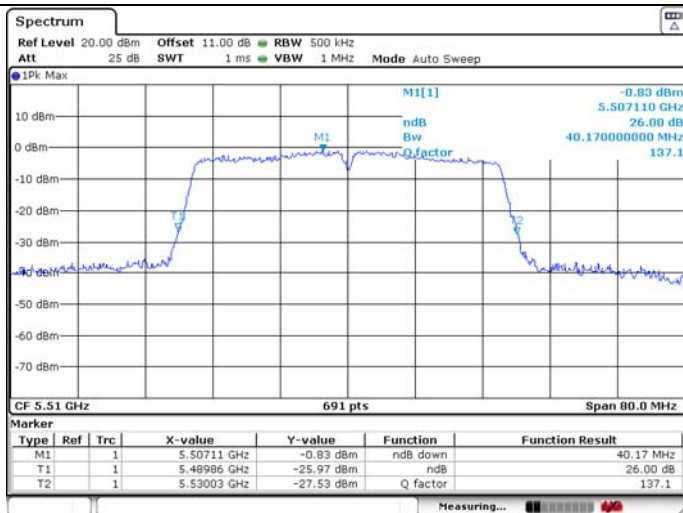
99% Occupied Bandwidth



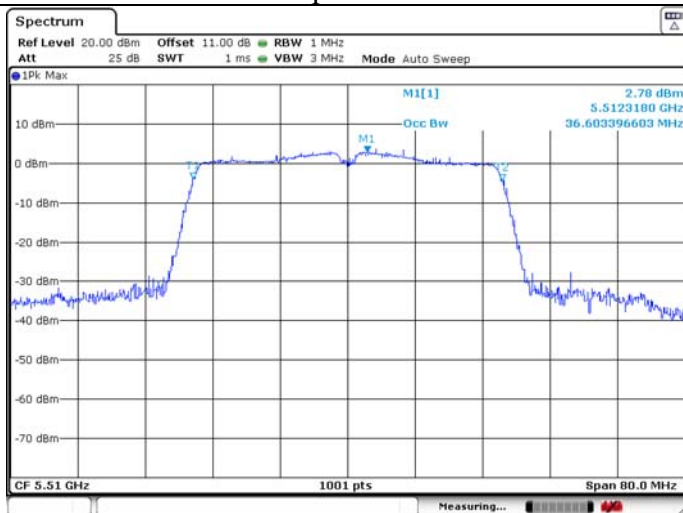
U-NII-2C IEEE 802.11n HT40 5510MHz**26dB Bandwidth****99% Occupied Bandwidth****U-NII-2C IEEE 802.11n HT40 5590MHz****26dB Bandwidth****99% Occupied Bandwidth****U-NII-2C IEEE 802.11n HT40 5670MHz****26dB Bandwidth****99% Occupied Bandwidth**

U-NII-2C IEEE 802.11ac VHT40 5510MHz

26dB Bandwidth

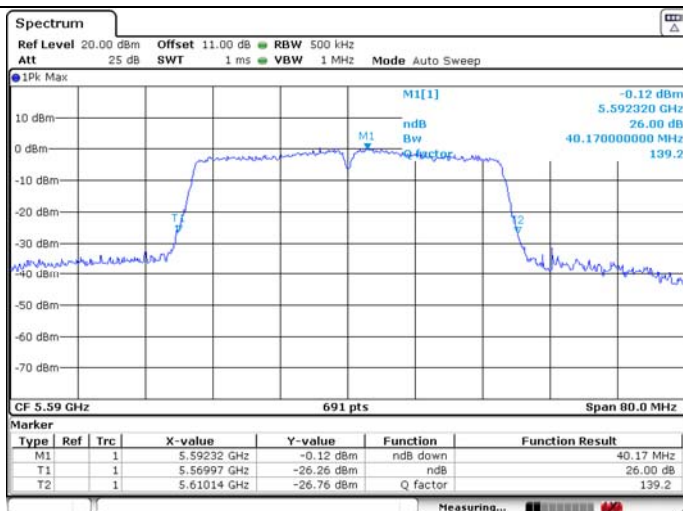


99% Occupied Bandwidth



U-NII-2C IEEE 802.11ac VHT40 5590MHz

26dB Bandwidth

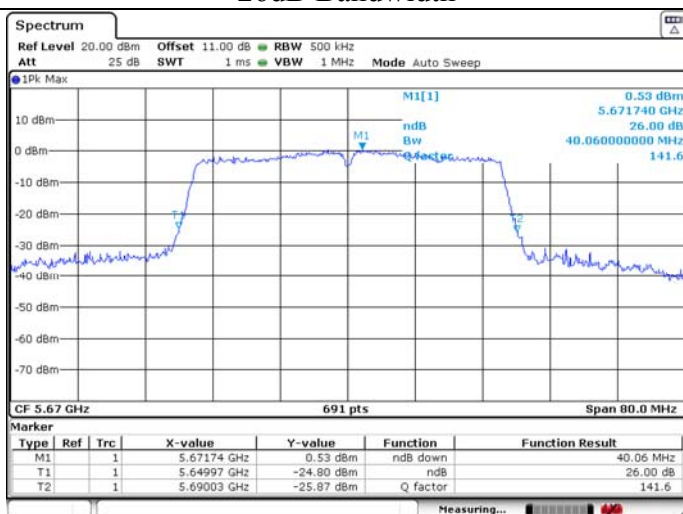


99% Occupied Bandwidth

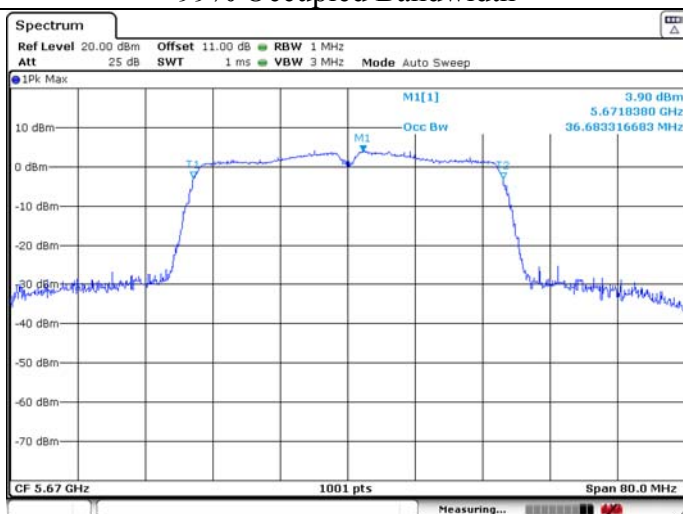


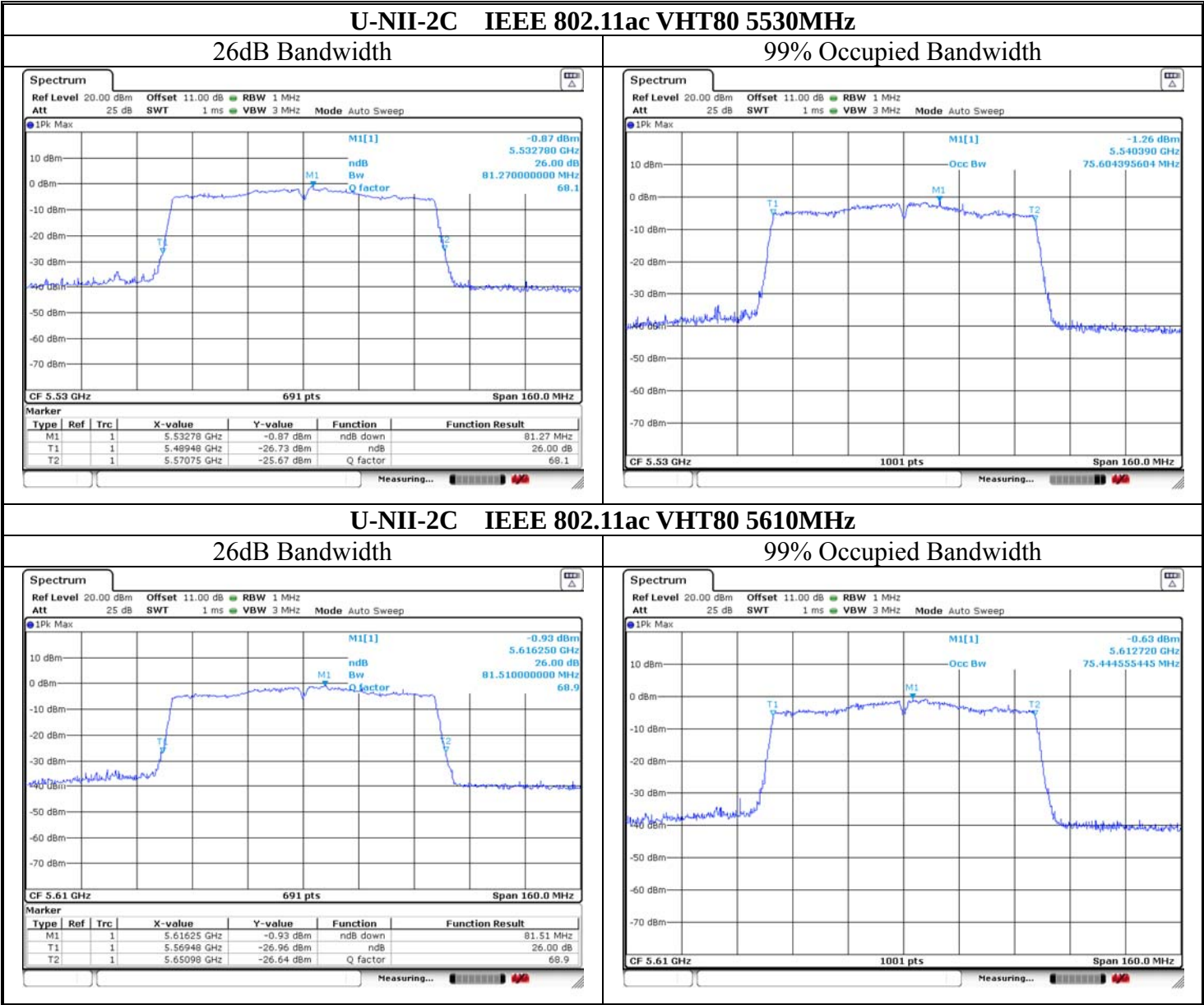
U-NII-2C IEEE 802.11ac VHT40 5670MHz

26dB Bandwidth



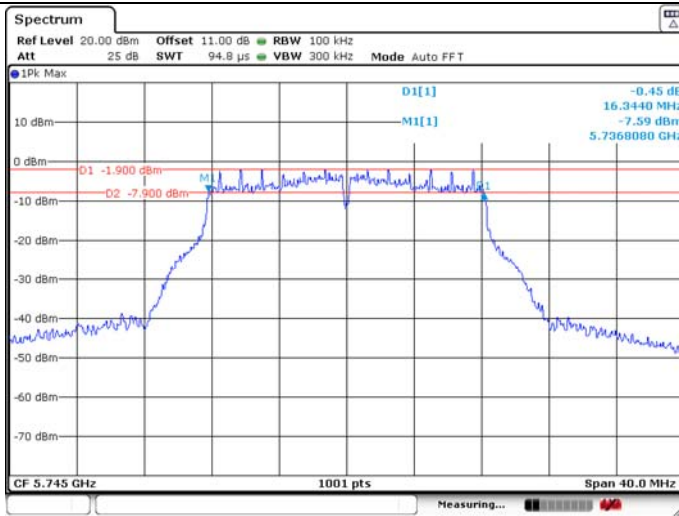
99% Occupied Bandwidth





U-NII-3 IEEE 802.11a 5745MHz

6dB Bandwidth

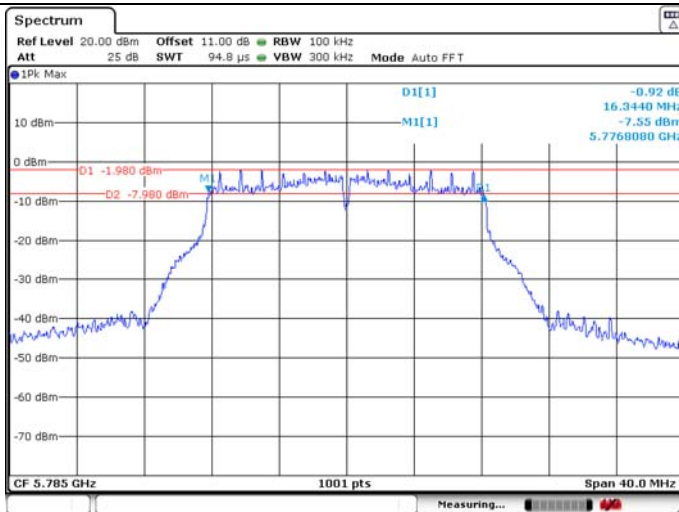


99% Occupied Bandwidth



U-NII-3 IEEE 802.11a 5785MHz

6dB Bandwidth

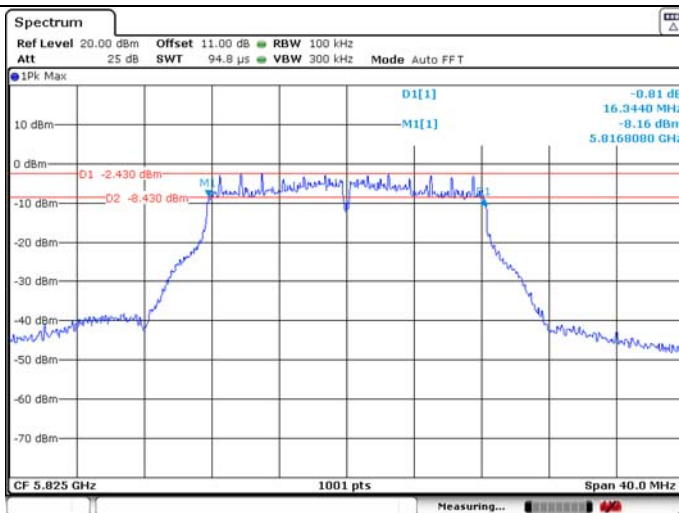


99% Occupied Bandwidth



U-NII-3 IEEE 802.11a 5825MHz

6dB Bandwidth

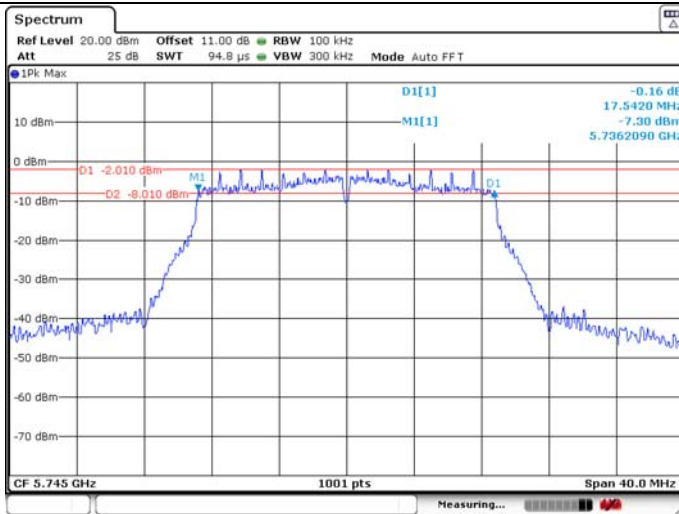


99% Occupied Bandwidth



U-NII-3 IEEE 802.11ac VHT20 5745MHz

6dB Bandwidth

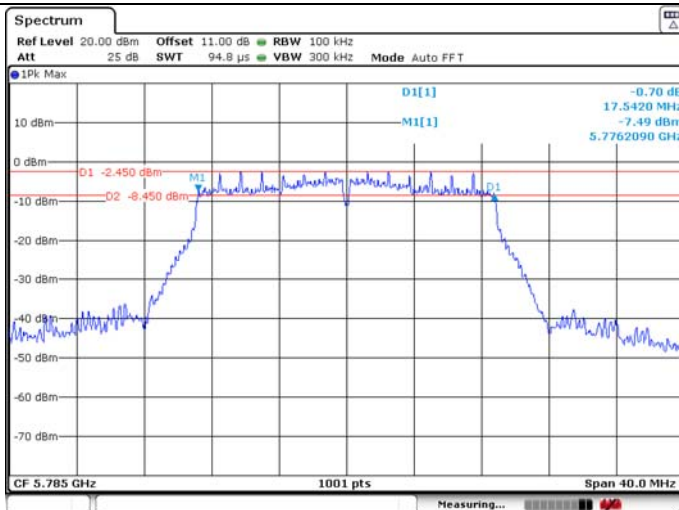


99% Occupied Bandwidth



U-NII-3 IEEE 802.11ac VHT20 5785MHz

6dB Bandwidth

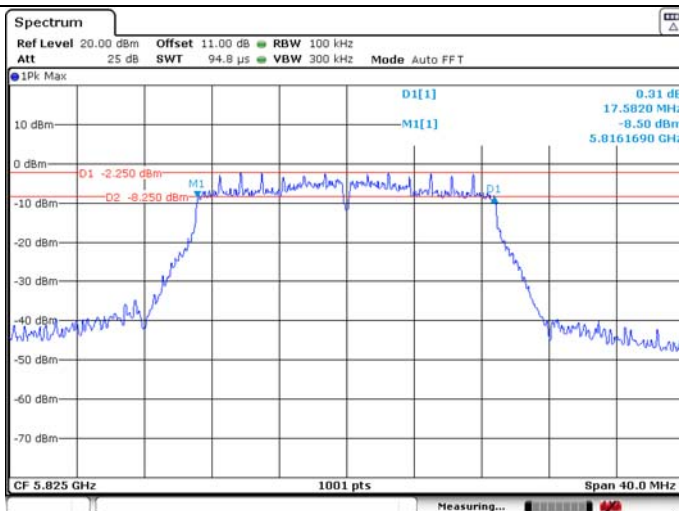


99% Occupied Bandwidth



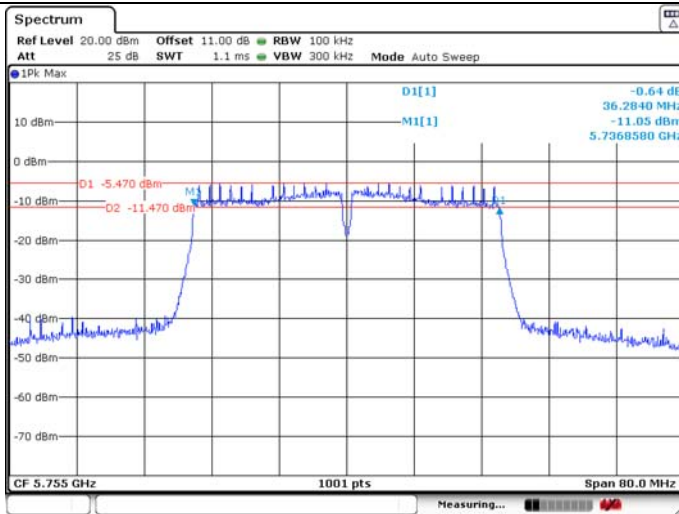
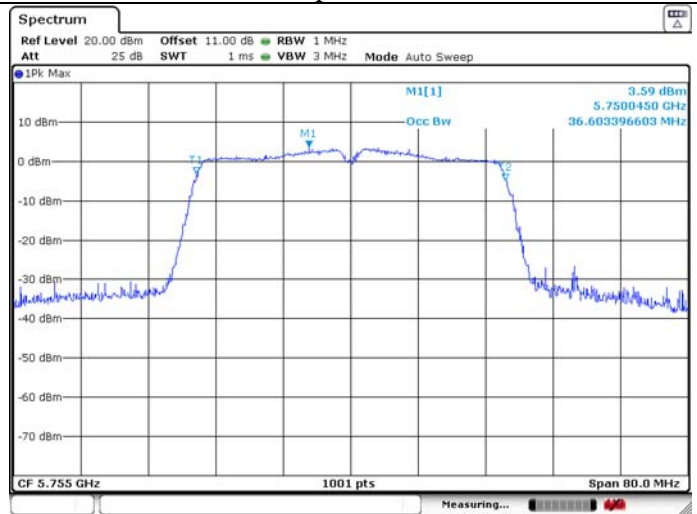
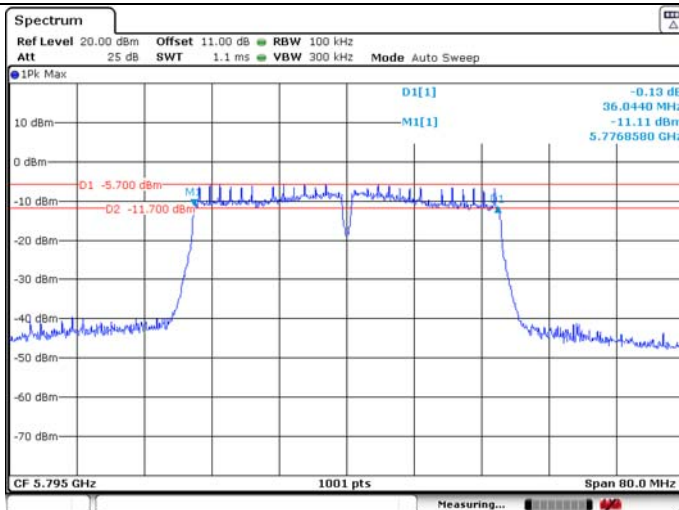
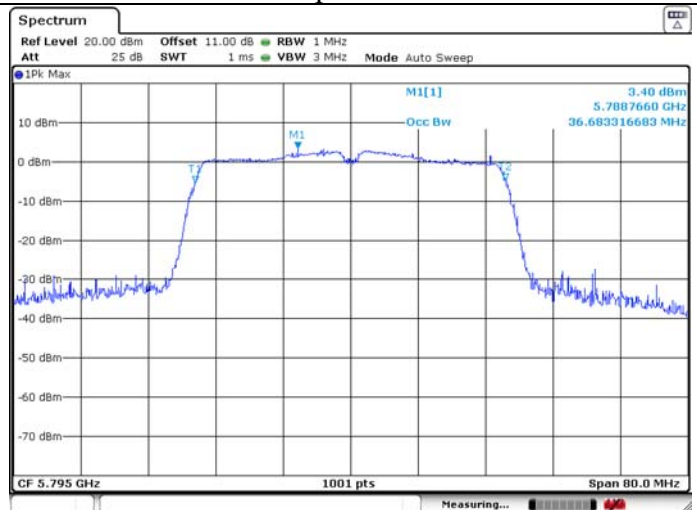
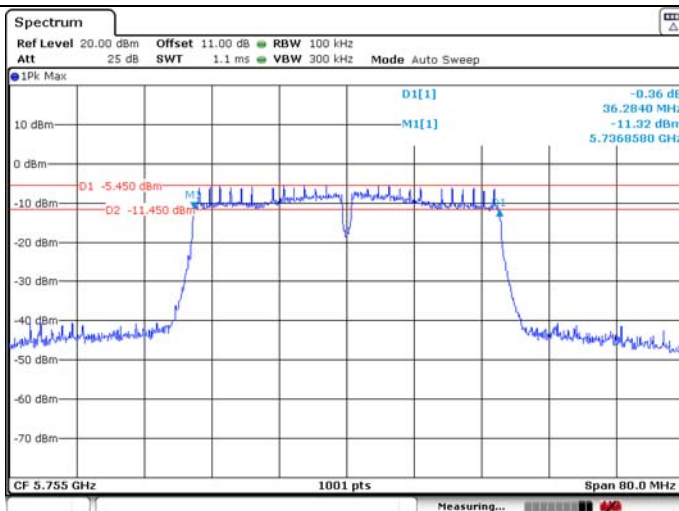
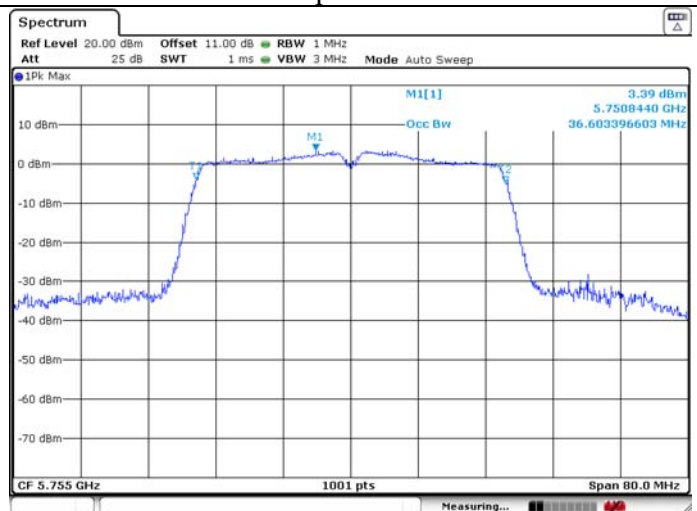
U-NII-3 IEEE 802.11ac VHT20 5825MHz

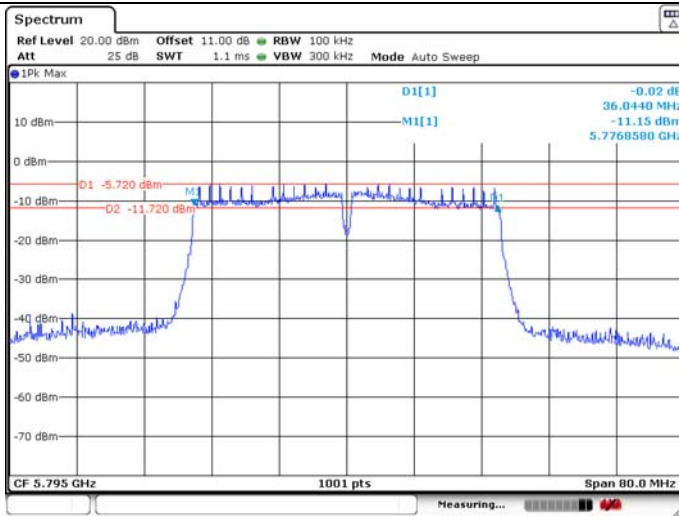
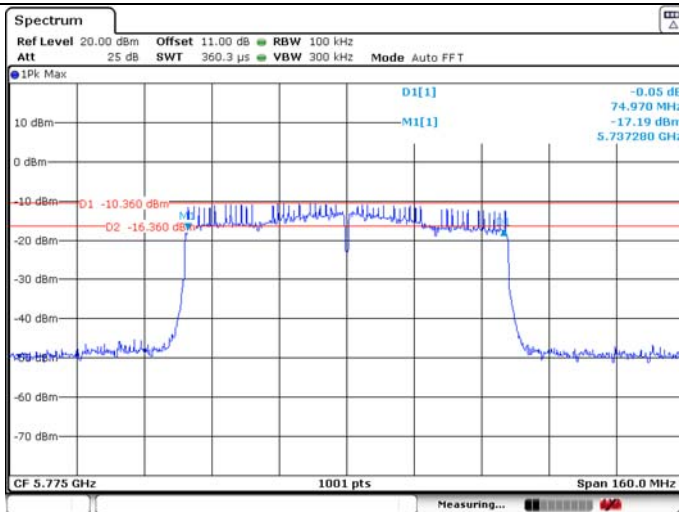
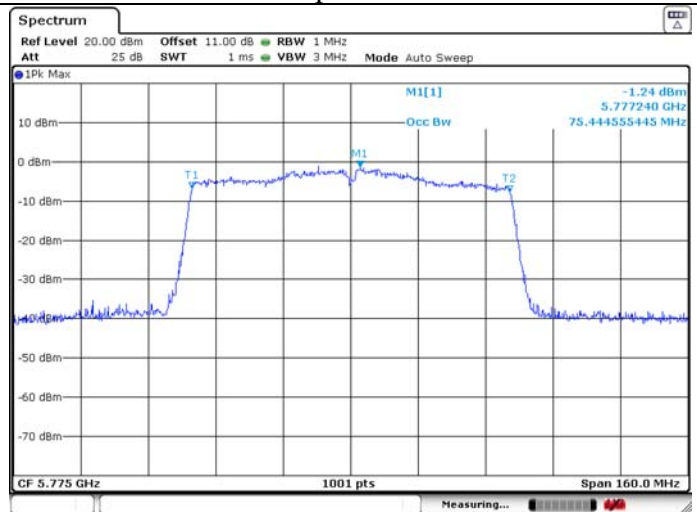
6dB Bandwidth



99% Occupied Bandwidth



U-NII-3 IEEE 802.11n HT40 5755MHz**6dB Bandwidth****99% Occupied Bandwidth****U-NII-3 IEEE 802.11n HT40 5795MHz****6dB Bandwidth****99% Occupied Bandwidth****U-NII-3 IEEE 802.11ac VHT40 5755MHz****6dB Bandwidth****99% Occupied Bandwidth**

U-NII-3 IEEE 802.11ac VHT40 5795MHz**6dB Bandwidth****99% Occupied Bandwidth****U-NII-3 IEEE 802.11ac VHT80 5775MHz****6dB Bandwidth****99% Occupied Bandwidth**

4. MAXIMUM CONDUCTED OUTPUT POWER

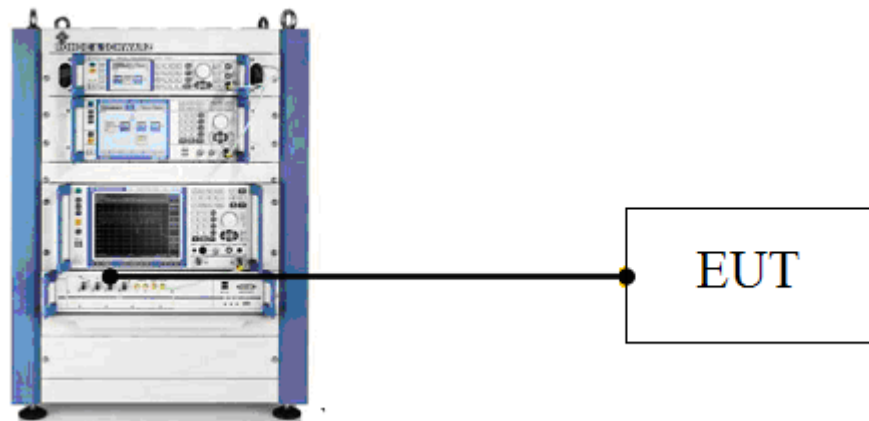
4.1. Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	1W(30dBm) (Max. e.i.r.p $\leq 125\text{mW}$ at any elevation angle above 30 degrees as measured from the horizon)
	Indoor Access Point	1W(30dBm)
	Fixed point-to-point Access Point	1W(30dBm)
	Mobile and Portable Client Device	250mW(23.98dBm)
U-NII-2A	All Device	250mW(23.98dBm) or $11\text{dBm} + 10 \log B$, Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-2C	All Device	250mW(23.98dBm) or $11\text{dBm} + 10 \log B$, Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-3	All Device	1W(30dBm)

Note:

For the Band U-NII-2A and U-NII-2C, the maximum conducted output power limit calculate result refer to section 3.5.

4.2. Test Setup



4.3. Test Procedure

- Connect EUT antenna terminal to the OSP-B157WB with RF cable.
- Set the EUT transmit continuously with maximum output power.
- Through the test software in TS 8897 to control a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

4.4. Test Result

Temperature	23.4℃	Relative Humidity		51%	Test Voltage	AC 120V/60Hz
BAND	Test Mode	Frequency (MHz)	Conducted AVG Output Power (dBm)	Conducted AVG Output Power (W)	Limit (dBm)	Result
U-NII-1	IEEE 802.11a	5180	14.441	0.02780	23.98	PASS
		5200	14.644	0.02913	23.98	PASS
		5240	14.683	0.02940	23.98	PASS
	IEEE 802.11n HT20	5180	11.873	0.01539	23.98	PASS
		5200	10.326	0.01078	23.98	PASS
		5240	10.531	0.01130	23.98	PASS
	IEEE 802.11ac VHT20	5180	11.795	0.01512	23.98	PASS
		5200	11.991	0.01582	23.98	PASS
		5240	10.896	0.01229	23.98	PASS
	IEEE 802.11n HT40	5190	13.579	0.02280	23.98	PASS
		5230	13.812	0.02405	23.98	PASS
	IEEE 802.11ac VHT40	5190	13.562	0.02271	23.98	PASS
		5230	13.801	0.02399	23.98	PASS
	IEEE 802.11ac VHT80	5210	10.892	0.01228	23.98	PASS
U-NII-2A	IEEE 802.11a	5260	14.868	0.03068	23.98	PASS
		5300	14.560	0.02858	23.98	PASS
		5320	14.343	0.02718	23.98	PASS
	IEEE 802.11n HT20	5260	14.496	0.02816	23.98	PASS
		5300	12.144	0.01638	23.98	PASS
		5320	11.857	0.01534	23.98	PASS
	IEEE 802.11ac VHT20	5260	14.413	0.02762	23.98	PASS
		5300	12.013	0.01590	23.98	PASS
		5320	11.843	0.01529	23.98	PASS
	IEEE 802.11n HT40	5270	13.824	0.02412	23.98	PASS
		5310	13.663	0.02324	23.98	PASS
	IEEE 802.11ac VHT40	5270	13.835	0.02418	23.98	PASS
		5310	13.693	0.02340	23.98	PASS
	IEEE 802.11ac VHT80	5290	10.351	0.01084	23.98	PASS

BAND	Test Mode	Frequency (MHz)	Conducted AVG Output Power (dBm)	Conducted AVG Output Power (W)	Limit (dBm)	Result
U-NII-2C	IEEE 802.11a	5500	12.976	0.01984	23.98	PASS
		5580	13.470	0.02223	23.98	PASS
		5700	13.547	0.02263	23.98	PASS
	IEEE 802.11n HT20	5500	12.698	0.01861	23.98	PASS
		5580	11.477	0.01405	23.98	PASS
		5700	11.291	0.01346	23.98	PASS
	IEEE 802.11ac VHT20	5500	12.726	0.01873	23.98	PASS
		5580	11.287	0.01345	23.98	PASS
		5700	11.372	0.01372	23.98	PASS
	IEEE 802.11n HT40	5510	12.050	0.01603	23.98	PASS
		5590	12.515	0.01784	23.98	PASS
		5670	12.778	0.01896	23.98	PASS
	IEEE 802.11ac VHT40	5510	12.029	0.01596	23.98	PASS
		5590	12.476	0.01768	23.98	PASS
		5670	12.752	0.01885	23.98	PASS
U-NII-3	IEEE 802.11a	5530	9.435	0.00878	23.98	PASS
		5610	9.904	0.00978	23.98	PASS
	IEEE 802.11n HT20	5745	13.604	0.02293	30.00	PASS
		5785	13.113	0.02048	30.00	PASS
		5825	12.966	0.01980	30.00	PASS
	IEEE 802.11n HT40	5745	13.254	0.02115	30.00	PASS
		5785	12.791	0.01902	30.00	PASS
		5825	12.704	0.01864	30.00	PASS
	IEEE 802.11ac VHT20	5745	13.234	0.02106	30.00	PASS
		5785	12.754	0.01885	30.00	PASS
		5825	12.626	0.01831	30.00	PASS
	IEEE 802.11ac VHT40	5755	12.772	0.01893	30.00	PASS
		5795	12.276	0.01689	30.00	PASS
	IEEE 802.11ac VHT80	5755	12.543	0.01796	30.00	PASS
		5795	12.293	0.01696	30.00	PASS

5. PEAK POWER SPECTRAL DENSITY

5.1. Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	17dBm/MHz
	Indoor Access Point	17dBm/MHz
	Fixed point-to-point Access Point	17dBm/MHz
	Mobile and Portable Client Device	11dBm/MHz
U-NII-2A	All Device	11dBm/MHz
U-NII-2C	All Device	11dBm/MHz
U-NII-3	All Device	30dBm/500KHz

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz(For U-NII-1&U-NII-2A&U-NII-2C) 500KHz(For U-NII-3)
VBW	3MHz(For U-NII-1&U-NII-2A&U-NII-2C) 2MHz(For U-NII-3)
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	$\geq 2 \times \text{SPAN}/\text{RBW}$
Detector	RMS(power averaging)
Trace Average	≥ 100 traces

5.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the average of the emission.
- If the duty cycle of test signal $< 98\%$, the result = max measured value + $10 \times \log(1/\text{duty cycle})$;
If the duty cycle of test signal $\geq 98\%$, the result = max measured value.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

5.5. Test Result

Temperature	27°C	Relative Humidity	54%	Test Voltage	AC 120V/60Hz
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BAND	Test Mode	Fre (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Total Power Density (dBm/MHz)	Limit (dBm/MHz)	Result
U-NII-1	IEEE 802.11a	5180	3.490	0.24	3.73	11.00	PASS
		5200	3.590	0.24	3.83	11.00	PASS
		5240	3.520	0.24	3.76	11.00	PASS
	IEEE 802.11n HT20	5180	0.660	0.25	0.91	11.00	PASS
		5200	-0.190	0.25	0.06	11.00	PASS
		5240	-0.260	0.25	-0.01	11.00	PASS
	IEEE 802.11ac VHT20	5180	0.910	0.25	1.16	11.00	PASS
		5200	1.070	0.25	1.32	11.00	PASS
		5240	1.140	0.25	1.39	11.00	PASS
	IEEE 802.11n HT40	5190	-0.270	0.44	0.17	11.00	PASS
		5230	-0.280	0.44	0.16	11.00	PASS
	IEEE 802.11ac VHT40	5190	-0.170	0.52	0.35	11.00	PASS
		5230	-0.290	0.52	0.23	11.00	PASS
	IEEE 802.11ac VHT80	5210	-5.710	0.90	-4.81	11.00	PASS
U-NII-2A	IEEE 802.11a	5260	3.770	0.24	4.01	11.00	PASS
		5300	3.470	0.24	3.71	11.00	PASS
		5320	3.300	0.24	3.54	11.00	PASS
	IEEE 802.11n HT20	5260	3.220	0.25	3.47	11.00	PASS
		5300	1.560	0.25	1.81	11.00	PASS
		5320	1.450	0.25	1.70	11.00	PASS
	IEEE 802.11ac VHT20	5260	3.270	0.25	3.52	11.00	PASS
		5300	1.610	0.25	1.86	11.00	PASS
		5320	1.510	0.25	1.76	11.00	PASS
	IEEE 802.11n HT40	5270	-0.030	0.44	0.41	11.00	PASS
		5310	-0.190	0.44	0.25	11.00	PASS
	IEEE 802.11ac VHT40	5270	-0.300	0.52	0.22	11.00	PASS
		5310	0.050	0.52	0.57	11.00	PASS
	IEEE 802.11ac VHT80	5290	-5.970	0.90	-5.07	11.00	PASS
U-NII-2C	IEEE 802.11a	5500	2.030	0.24	2.27	11.00	PASS
		5580	2.510	0.24	2.75	11.00	PASS
		5700	2.360	0.24	2.60	11.00	PASS
	IEEE 802.11n HT20	5500	1.530	0.25	1.78	11.00	PASS
		5580	0.720	0.25	0.97	11.00	PASS
		5700	0.930	0.25	1.18	11.00	PASS
	IEEE 802.11ac VHT20	5500	1.460	0.25	1.71	11.00	PASS
		5580	0.720	0.25	0.97	11.00	PASS
		5700	1.510	0.25	1.76	11.00	PASS
	IEEE 802.11n HT40	5510	-2.090	0.44	-1.65	11.00	PASS
		5590	-1.410	0.44	-0.97	11.00	PASS
		5670	-1.330	0.44	-0.89	11.00	PASS
	IEEE 802.11ac VHT40	5510	-1.920	0.52	-1.40	11.00	PASS
		5590	-1.370	0.52	-0.85	11.00	PASS
		5670	-1.130	0.52	-0.61	11.00	PASS
	IEEE 802.11ac VHT80	5530	-7.470	0.90	-6.57	11.00	PASS
		5610	-6.680	0.90	-5.78	11.00	PASS

BAND	Test Mode	Fre (MHz)	Power Density (dBm/500KHz)	Duty Factor (dB)	Total Power Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
U-NII-3	IEEE 802.11a	5745	-0.120	0.24	0.12	30.00	PASS
		5785	-0.550	0.24	-0.31	30.00	PASS
		5825	-0.930	0.24	-0.69	30.00	PASS
	IEEE 802.11n HT20	5745	-0.390	0.25	-0.14	30.00	PASS
		5785	-0.740	0.25	-0.49	30.00	PASS
		5825	-1.010	0.25	-0.76	30.00	PASS
	IEEE 802.11ac VHT20	5745	-0.400	0.25	-0.15	30.00	PASS
		5785	-0.850	0.25	-0.60	30.00	PASS
		5825	-1.230	0.25	-0.98	30.00	PASS
	IEEE 802.11n HT40	5755	-3.920	0.44	-3.48	30.00	PASS
		5795	-4.140	0.44	-3.70	30.00	PASS
	IEEE 802.11ac VHT40	5755	-3.780	0.52	-3.26	30.00	PASS
		5795	-4.180	0.52	-3.66	30.00	PASS
	IEEE 802.11ac VHT80	5775	-9.920	0.90	-9.02	30.00	PASS

U-NII-1 IEEE 802.11a 5180MHz



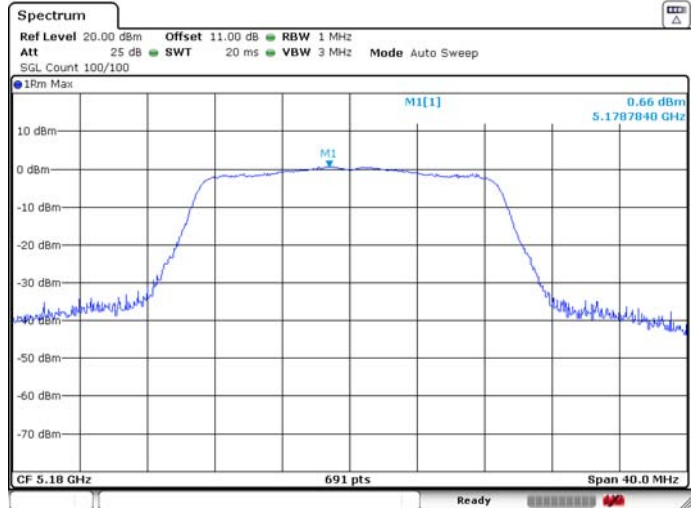
U-NII-1 IEEE 802.11a 5200MHz



U-NII-1 IEEE 802.11a 5240MHz



U-NII-1 IEEE 802.11n HT20 5180MHz



U-NII-1 IEEE 802.11n HT20 5200MHz



U-NII-1 IEEE 802.11n HT20 5240MHz



U-NII-1 IEEE 802.11ac VHT20 5180MHz**U-NII-1 IEEE 802.11ac VHT20 5200MHz****U-NII-1 IEEE 802.11ac VHT20 5240MHz****U-NII-1 IEEE 802.11n HT40 5190MHz****U-NII-1 IEEE 802.11n HT40 5230MHz****U-NII-1 IEEE 802.11ac VHT40 5190MHz**