

FCC 47 CFR PART 15 SUBPART E CERTIFICATION TEST REPORT

For

Toaster Oven

MODEL No.: JCP02, JCH02

FCC ID: 2AJGA-CH18A

Trade Mark: GALANZ, june

REPORT NO.: ES180411018W02

ISSUE DATE: May 09, 2018

Prepared for

June Life Inc.

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Prepared by

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1 TEST RESULT CERTIFICATION

Applicant:	June Life Inc. 649 Front Street, Suite 100, San Francisco, CA 94111, United States		
Manufacturer: Guangdong Galanz Microwave Oven and Electrical Appliances Manufacturing Co 25 Ronggui Nan Road, Shunde, Foshan, Guangdong P.R. China			
Product Description:	Toaster Oven		
Model Number:	JCP02, JCH02 Two models are identical in circuitry and electrical, mechanical and Physical construction, the difference is model number. for trading purpose; We prepare JCP02 for test		
Trade Mark:	GALANZ, june		

Measurement Procedure Used:

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E	PASS			

The above equipment was tested by EMTEK(SHENZHEN) CO., LTD.. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.407

The test results of this report relate only to the tested sample identified in this report.

Date of Test :	April 11, 2018 to May 09, 2018
Prepared by :	Dorrs Su . Doris Su /Tester
Reviewer :	Sevin Li / Supervisor
Approve & Authorized Signer :	Lisa Wang/Manager

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2 EUT TECHNICAL DESCRIPTION

Characteristics	Description						
Device style	5G WIFI (Sla	5G WIFI (Slave equipment without radar detection function)					
IEEE 802.11 WLAN Mode Supported	Section 2000 Sec						
Data Rate	802.11n(HT2 802.11n(HT4 802.11ac(HT	802.11 a:6,9,12,18,24,36,48,54Mbps; 802.11n(HT20)/ac(HT20): MCS0-MCS7; 802.11n(HT40): MCS0-MCS7; 802.11ac(HT40):MCS0-MCS7; 802.11ac(VHT80):MCS0-MCS7;					
Modulation	OFDM with E	BPSK/QPSK/16QAM/64QAM fo	or 802.11a/g/n;				
	WIFI 5G Band	Mode	Frequency Range(MHz)	Number of channels			
		802.11a/n(HT20)/ac(VHT20)	5180-5240	4			
	UNII Band I	802.11n(HT40)/ac(VHT40)	5190-5230	2			
	26	802.11 ac(VHT80)	5210	1			
	UNII Band II-A	802.11a/n(HT20)/ac(VHT20)	5260-5320	4			
Operating Frequency		802.11n(HT40)/ac(VHT40)	5270-5310	2			
Range		802.11 ac(VHT80)	5290	1			
	LINII	802.11a/n(HT20)/ac(VHT20)	5500-5700	11			
	UNII Band II-C	802.11n(HT40)/ac(VHT40)	5510-5670	5			
		802.11 ac(VHT80)	5530-5610	2			
	LINIII	802.11a/n(HT20)/ac(VHT20)	5745-5825	5			
	UNII Band III	802.11n(HT40)/ac(VHT40)	5755-5795	2			
		802.11 ac(VHT80)	5775	1			
Transmit Power Max	16.38 dBm for UNII Band I 14.62 dBm for UNII Band II-A 15.69 dBm for UNII Band II-C 15.52 dBm for UNII Band III						
Antenna Type	FPC antenna	a					
Antenna Gain	4.09dBi		3				
Smart system	⊠siso		□МІМО				
Power supply	⊠AC 120V/	60Hz					

Note: for more details, please refer to the User's manual of the EUT.

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3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.407 (a) 15.407 (e)	99% , 6dB and 26dB Bandwidth	PASS	
15.407 (e)	Maximum Conducted Output Power	PASS	
15.407 (a)	Peak Power Spectral Density	PASS	
15.407 (b)	Radiated Spurious Emission	PASS	
15.407(g)	Frequency Stability	PASS	
15.407 (b)(6) 15.207	Power Line Conducted Emission	PASS	
15.407(a) 15.203	Antenna Application	PASS	

NOTE1: N/A (Not Applicable)

NOTE2: According to FCC OET KDB 789033 D2 General UNII Test Procedures New Rules v01r02, In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AJGA-CH18A filing to comply with Section 15.247 of the FCC Part 15, Subpart E Rules.

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4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

FCC KDB 789033 D2 General UNII Test Procedures New Rules v01r04

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 662911 D02 MIMO With Cross Polarized Antenna V01

4.2 MEASUREMENT EQUIPMENT USED

4.2.1 Conducted Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
Test Receiver	Rohde & Schwarz	ESCI	26115-010-0027	May 20, 2017	May 19, 2018
L.I.S.N.	Rohde & Schwarz	ENV216	101161	May 20, 2017	May 19, 2018
50Ω Coaxial Switch	Anritsu	MP59B	6100175589	May 21, 2017	May 20, 2018
Voltage Probe	Rohde & Schwarz	ESH2-Z3	100122	May 21, 2017	May 20, 2018
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 20, 2017	May 19, 2018
I.S.N	Teseq GmbH	ISN T800	30327	May 21, 2017	May 20, 2018

4.2.2 Radiated Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
EMI Test Receiver	MI Test Receiver Rohde & Schwarz		1302.6005.26	May 21, 2017	May 20, 2018
Pre-Amplifier	HP	8447F	2944A07999	May 20, 2017	May 19, 2018
Bilog Antenna	Bilog Antenna Schwarzbeck		142	May 20, 2017	May 19, 2018
Loop Antenna	Loop Antenna ARA		1029	May 20, 2017	May 19, 2018
Horn Antenna	Horn Antenna Schwarzbeck		BBHA9170399	May 21, 2017	May 20, 2018
Horn Antenna	Horn Antenna Schwarzbeck		D143	May 20, 2017	May 19, 2018
Cable	Schwarzbeck	AK9513	ACRX1	May 21, 2017	May 20, 2018
Cable	Rosenberger	N/A	FP2RX2	May 21, 2017	May 20, 2018
Cable	Schwarzbeck	AK9513	CRPX1	May 21, 2017	May 20, 2018
Cable	Schwarzbeck	AK9513	CRRX2	May 21, 2017	May 20, 2018

4.2.3 Radio Frequency Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
Spectrum Analyzer	Agilent	E4407B	88156318	May 21, 2017	May 20, 2018
Signal Analyzer	Agilent	N9010A	My53470879	May 21, 2017	May 20, 2018
Power meter	Anritsu	ML2495A	0824006	May 21, 2017	May 20, 2018
Power sensor	Anritsu	MA2411B	0738172	May 21, 2017	May 20, 2018
Spectrum Analyzer	Agilent	E4407B	88156318	May 21, 2017	May 20, 2018

Remark: Each piece of equipment is scheduled for calibration once a year.

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4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (\boxtimes 802.11a: 6 Mbps; \boxtimes 802.11n (HT20): MCS0; \boxtimes 802.11n (HT40): MCS0; \boxtimes 802.11ac (HT20): MCS0; \boxtimes 802.11ac (HT40): MCS0; \boxtimes 802.11ac (HT80): MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

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⊠Wifi 5G with UNII Band I

Frequency and Channel list for 802.11a/n(HT20)/ac(VHT20):

	1040010) and 010111011011011011011011011011011011011							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)			
36	5180	44	5220					
40	5200	48	5240					

Frequency and Channel list for 802.11n(HT40)/ac(VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190				
46	5230				

Frequency and Channel list for 802.11ac(VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210				

Test Frequency and Channel for 802.11a/n(HT20)/ac(VHT20):

Lowest F	Lowest Frequency		requency	Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	48	5240

Test Frequency and channel for 802.11n(VHT40)/ac(VHT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	N/A	N/A	46	5230

Test Frequency and channel for 802.11ac(HT80):

rest i requeriey and	2 0110111101101 00211	140(11100).			
Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	N/A	N/A	N/A	N/A

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⊠Wifi 5G with UNII Band II-A

Frequency and Channel list for 802.11a/n(HT20)/ac(VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300		
56	5280	64	5320		

Frequency and Channel list for 802.11n(VHT40)/ac(VHT40):

	0.10.11.01.11.01		<i>y,</i> 3.3 (
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270				
62	5310				

Frequency and Channel list for 802.11ac(VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

Test Frequency and Channel for 802.11a/n(HT20)/ac(VHT20):

Lowest F	Lowest Frequency		requency	Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	56	5280	64	5320

Test Frequency and channel for 802.11n(HT40)/ac(VHT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	N/A	N/A	62	5310

Test Frequency and channel for 802.11ac(VHT80):

ı	rest i requeriey and					
	Lowest Frequency		Middle Frequency		Highest Frequency	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	58	5290	N/A	N/A	N/A	N/A

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⊠Wifi 5G with UNII Band II-C

Frequency and Channel list for 802.11a/n(HT20)/ac(VHT20):

	Frequency	<u>.</u>	Frequency		Frequency
Channel	(MHz)	Channel	(MHz)	Channel	(MHz)
100	5500	116	5580	132	5660
104	5520	120	5600	136	5680
108	5540	124	5620	140	5700
112	5560	128	5640		

Frequency and Channel list for 802.11n(VHT40)/ac(VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	126	5630		
110	5550	134	5670		
118	5590				

Frequency and Channel list for 802.11ac(VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530				
122	5610				

Test Frequency and Channel for 802.11a/n(HT20)/ac(VHT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel Frequency (MHz)		Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	120	5600	140	5700

Test Frequency and channel for 802.11n(VHT40)/ac(VHT40):

Lowest F	Lowest Frequency		Middle Frequency		st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	,		5590	134	5670

Test Frequency and channel for 802.11ac(VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Channel Frequency (MHz)		Frequency (MHz)	Channel	Frequency (MHz)
106	5530	N/A	N/A	122	5610

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Wifi 5G with UNII Band III

Frequency and Channel list for 802.11a/n(HT20)/ac(VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825
153	5765	161	5805		

Frequency and Channel list for 802.11n(HT40)/ac(VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755				
159	5795				

Frequency and Channel list for 802.11ac(VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				, ,

Test Frequency and Channel for 802.11a/n(HT20)/ac(VHT20):

Lowest F	Lowest Frequency		requency	Highe	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825

Test Frequency and channel for 802.11n(HT40)/ac(VHT40):

Lowest F	Lowest Frequency		requency	Highest Frequency		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
151	5755	N/A	N/A	159	5795	

Test Frequency and channel for 802.11ac(VHT80):

Lowest Frequency		Middle F	requency	Highe	st Frequency
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				

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5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

Bldg 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS,2016.10.24

The certificate is valid until 2022.10.28

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L2291.

Accredited by TUV Rheinland Shenzhen 2016.5.19

The Laboratory has been assessed according to the requirements

ISO/IEC 17025.

Accredited by FCC, August 03, 2017

Designation Number: CN1204

Test Firm Registration Number: 882943 Accredited by A2LA, July 31, 2017

The Certificate Registration Number is 4321.01.

Accredited by Industry Canada, November 29, 2012

The Certificate Registration Number is 4480A.

Name of Firm : $\mathsf{EMTEK}(\mathsf{SHENZHEN})$ CO., LTD.

Site Location : Bldg 69, Majialong Industry Zone,

Nanshan District, Shenzhen, Guangdong, China

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6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Power Density	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5℃
Humidity	±3%

Measurement Uncertainty for a level of Confidence of 95%

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7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.

EUT Attenuator Measurement Instrument

7.2 RADIO FREQUENCY TEST SETUP

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

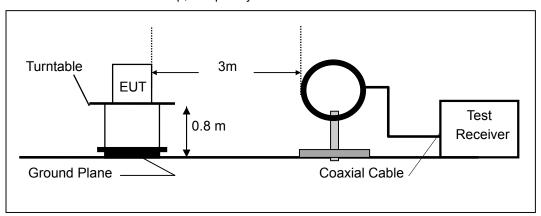
Above 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

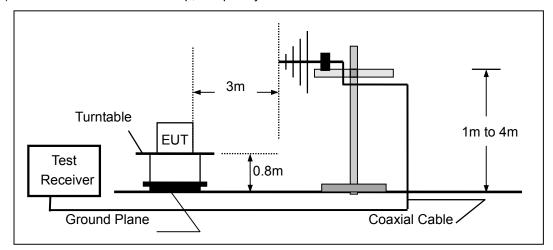
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



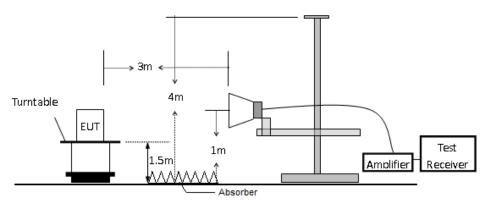
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(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



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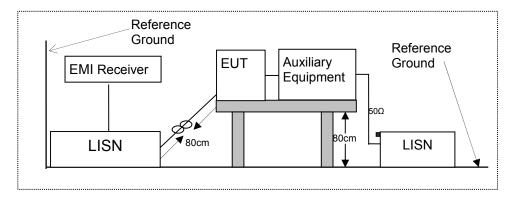


7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

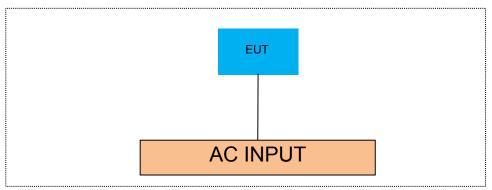
According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



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7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

Ite	m	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
N	Α	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

- All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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8 TEST REQUIREMENTS

8.1 BANDWIDTH MEASUREMENT

8.1.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I

According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C

According to FCC Part 15.407(a)(3) for UNII Band III

According to FCC Part 15.407(e) for UNII Band III

According to 789033 D02 Section II(C)

According to 789033 D02 Section II(D)

8.1.2 Conformance Limit

No limit requirement.

The minimum 6 dB emission bandwidth of at least 500 KHz for the UNII Band III.

8.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.1.4 Test Procedure

Connect the antenna port(s) to the spectrum analyzer input. Using the spectrum analyzer Channel Bandwidth mode, configure the spectrum analyzer as shown below

■ The following procedure shall be used for measuring (26 dB) power bandwidth:

Center Frequency: test Frequency

Set RBW = approximately 1% of the emission bandwidth.

Set the VBW > RBW.

Detector = Peak.

Trace mode = max hold.

X dB Bandwidth: 26 dB

Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

■ Minimum Emission Bandwidth for the UNII Band III

Center Frequency: test Frequency

Set RBW = 100 kHz Set VBW ≥ 3 · RBW

Detector = Peak

Trace mode = max hold Sweep = auto couple

X dB Bandwidth: 6 dB

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

■ The following procedure shall be used for measuring (99 %) power bandwidth:

Set center frequency to the nominal EUT channel center frequency.

Set span = 1.5 times to 5.0 times the OBW.

Set RBW = 1 % to 5 % of the OBW

Set VBW ≥ 3 · RBW

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.

Use the 99 % power bandwidth function of the instrument (if available).

If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. 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% occupied bandwidth is the difference between these two frequencies.

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8.1.5 Test Results

Temperature : 28° Test By: King Kong Humidity : 65°

Band	Channel Number	Channel Freg. (MHz)	26dB EBW	99% OBW (MHz)	Limit (MHz)	Verdict
		. ` ,	(MHz)	(IVITIZ) 16.94	, ,	NI/A
UNII	CH36	5180	20.21		N/A	N/A
Band I	CH40	5200	29.01	17.06	N/A	N/A
Dana	CH48	5240	21.26	16.90	N/A	N/A
UNII	CH52	5260	22.26	16.86	N/A	N/A
Band II-A	CH56	5280	21.70	16.82	N/A	N/A
Dallu II-A	CH64	5320	37.17	17.22	N/A	N/A
LINIII	CH100	5500	35.46	17.66	N/A	N/A
UNII Band II-C	CH120	5600	34.68	17.94	N/A	N/A
Ballu II-C	CH140	5700	38.92	20.94	N/A	N/A
LINIII	CH149	5745	39.04	18.70	N/A	N/A
UNII Band III	CH157	5785	31.65	17.18	N/A	N/A
	CH165	5825	23.34	16.90	N/A	N/A
Note:						

Note.

N/A (Not Applicable)

Temperature : 28℃ Test By: King Kong

Humidity: 65 %

Band	Channel Number	Channel Freq. (MHz)	26dB EBW (MHz)	99% OBW (MHz)	Limit (MHz)	Verdict
	CH36	5180	33.53	18.22	N/A	N/A
UNII Band I	CH40	5200	27.81	17.94	N/A	N/A
Banu i	CH48	5240	26.25	17.94	N/A	N/A
UNII	CH52	5260	24.86	17.86	N/A	N/A
Band II-A	CH56	5280	23.98	17.86	N/A	N/A
Ballu II-A	CH64	5320	29.89	18.02	N/A	N/A
UNII Band II-C	CH100	5500	37.96	18.50	N/A	N/A
	CH120	5600	39.48	18.98	N/A	N/A
	CH140	5700	39.84	24.14	N/A	N/A
UNII Band III	CH149	5745	39.60	20.22	N/A	N/A
	CH157	5785	37.04	18.50	N/A	N/A
	CH165	5825	29.69	18.06	N/A	N/A
Note:						

N/A (Not Applicable)

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⊠ 802.11 ac(VHT20) mode

Temperature : 28℃ Test By: King Kong

Humidity: 65 %

Band	Channel	Channel	26dB EBW	99% OBW	Limit	Verdict
	Number	Freq. (MHz)	(MHz)	(MHz)	(MHz)	verdict
UNII	CH36	5180	31.09	18.26	N/A	N/A
Band I	CH40	5200	31.61	18.10	N/A	N/A
Danu	CH48	5240	20.05	17.90	N/A	N/A
UNII	CH52	5260	23.46	17.82	N/A	N/A
Band II-A	CH56	5280	25.22	17.90	N/A	N/A
Dallu II-A	CH64	5320	29.97	17.94	N/A	N/A
UNII Band II-C	CH100	5500	37.28	18.74	N/A	N/A
	CH120	5600	37.52	19.02	N/A	N/A
Ballu II-C	CH140	5700	39.98	23.26	N/A	N/A
UNII Band III	CH149	5745	38.84	19.26	N/A	N/A
	CH157	5785	37.96	18.26	N/A	N/A
	CH165	5825	26.29	17.94	N/A	N/A

Note:

N/A (Not Applicable)

Temperature : 28℃ Test By: King Kong

Humidity: 65 %

•						
Band	Channel	Channel	26dB EBW	99% OBW	Limit	Vardiet
	Number	Freq. (MHz)	(MHz)	(MHz)	(MHz)	Verdict
UNII	CH38	5190	60.92	36.52	N/A	N/A
Band I	CH46	5230	45.16	36.44	N/A	N/A
UNII	CH54	5270	41.34	36.28	N/A	N/A
Band II-A	CH62	5310	57.62	36.44	N/A	N/A
UNII	CH102	5510	63.70	36.60	N/A	N/A
Band II-C	CH118	5590	60.18	36.60	N/A	N/A
Dallu II-C	CH134	5670	78.68	40.28	N/A	N/A
UNII	CH151	5755	74.33	36.92	N/A	N/A
Band III	CH159	5795	60.26	36.52	N/A	N/A
Note:		•		_	•	•

N/A (Not Applicable)

⋈ 802.11ac(VHT40)	mode
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Temperature : 28℃ Test By: King Kong

Humidity: 65 %

N/A (Not Applicable)

	*		+		,	
Band	Channel	Channel	26dB EBW	99% OBW	Limit	Verdict
	Number	Freq. (MHz)	(MHz)	(MHz)	(MHz)	Verdict
UNII	CH38	5190	57.94	36.44	N/A	N/A
Band I	CH46	5230	49.39	36.28	N/A	N/A
UNII	CH54	5270	41.63	36.28	N/A	N/A
Band II-A	CH62	5310	58.10	36.44	N/A	N/A
LINIII	CH102	5510	72.49	36.60	N/A	N/A
UNII Band II-C	CH118	5590	71.13	36.92	N/A	N/A
Dariu II-C	CH134	5670	76.72	40.36	N/A	N/A
UNII	CH151	5755	74.97	37.00	N/A	N/A
Band III	CH159	5795	70.49	36.68	N/A	N/A
Note:						

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≥ 802.11ac(VHT80) mode
 Temperature: 28°C
 Humidity: 65 %

King Kong

Band	Channel Number	Channel Freq. (MHz)	26dB EBW (MHz)	99% OBW (MHz)	Limit (MHz)	Verdict
UNII Band I	CH42	5210	80.56	75.44	N/A	N/A
UNII Band II-A	CH58	5290	80.72	75.44	N/A	N/A
UNII	CH106	5530	80.40	74.96	N/A	N/A
Band II-C	CH122	5610	82.64	75.60	N/A	N/A
UNII Band III	CH155	5775	81.20	75.28	N/A	N/A

Note:

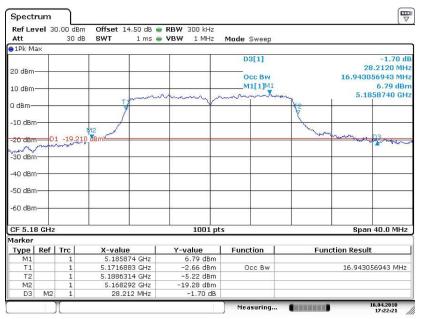
N/A (Not Applicable)

emperature :	28℃		King Ko	ong	
Humidity :	65 %				
Operation Mode	Channel Number	Channel Freq. (MHz)	6dB EBW (MHz)	Limit (MHz)	Verdict
	CH149	5745	16.30	500	PASS
802.11a	CH157	5785	16.30	500	PASS
	CH165	5825	16.26	500	PASS
902 11p	CH149	5745	17.02	500	PASS
802.11n	CH157	5785	16.98	500	PASS
(HT20)	CH165	5825	17.02	500	PASS
802.11ac	CH149	5745	17.26	500	PASS
	CH157	5785	16.86	500	PASS
(VHT20)	CH165	5825	16.82	500	PASS
802.11n	CH151	5755	35.41	500	PASS
(HT40)	CH159	5795	35.33	500	PASS
802.11ac	CH151	5755	35.49	500	PASS
(VHT40)	CH159	5795	35.33	500	PASS
802.11ac (VHT80)	CH155	5775	75.12	500	PASS
Note: N/A (Not Applic	able)				

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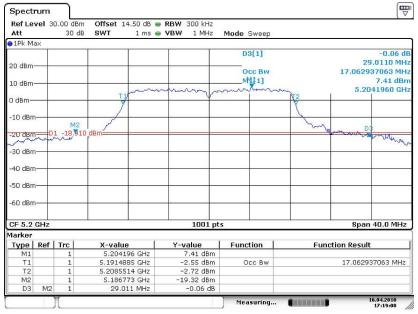


Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11a Frequency(MHz) 5180



Date: 16.APR.2018 17:22:21

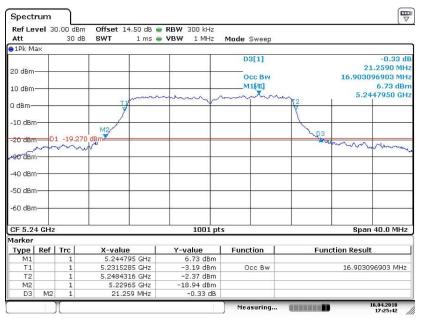
Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11a Frequency(MHz) 5200



Date: 16.APR.2018 17:19:07



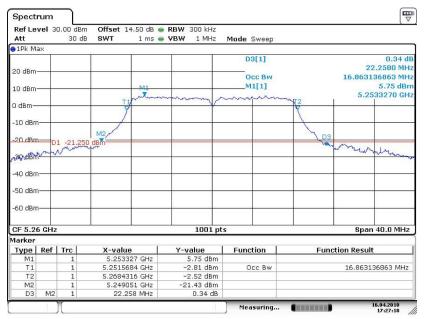
Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11a Frequency(MHz) 5240



Date: 16.APR.2018 17:25:42

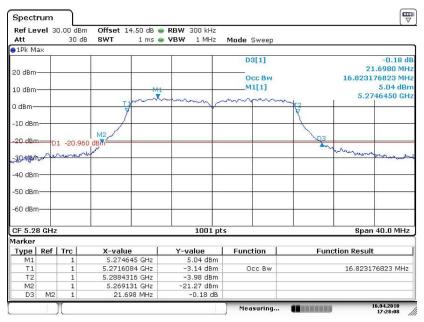


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11a Frequency(MHz) 5260



Date: 16.APR.2018 17:27:17

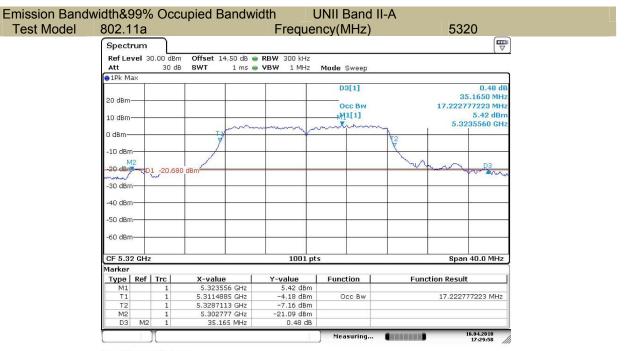
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11a Frequency(MHz) 5280



Date: 16.APR.2018 17:28:08

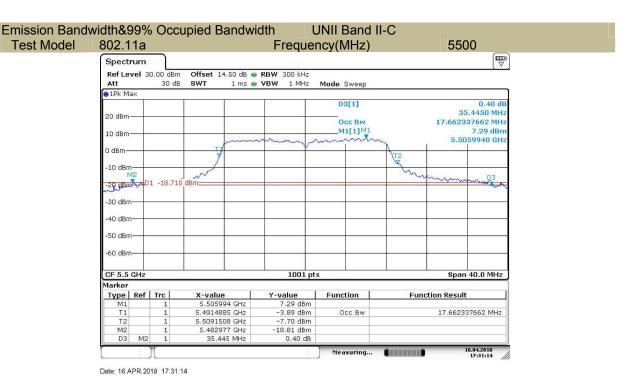
TRF No.: FCC 15.407/A Page 24 of 157 Report No.: ES180411018W02 Ver.1.0





Date: 16.APR.2018 17:29:58





Emission Bandwidth&99% Occupied Bandwidth **UNII Band II-C** 5600 **Test Model** 802.11a Frequency(MHz) Spectrum Ref Level 30.00 dBm Att 30 dB 1 MHz Mode Sweep -0.10 dE 34.6850 MHz 20 dBr 17.942057942 MH Occ Bw M1[1]M1 6.00 dBm 5.6057140 GHz 10 dBm 0 dBm -10 dBm M2 D1 -20.000 -20 dBm -30 dBn -40 dBm -50 dBn -60 dBm CF 5.6 GHz 1001 pts Span 40.0 MHz Marker X-value 5.605714 GHz 5.5913287 GHz 5.6092707 GHz 5.584695 GHz 34.685 MHz Y-value 6.00 dBm -5.35 dBm -8.98 dBm -20.07 dBm Type | Ref | Trc Function Function Result

-0.10 dB

Occ Bw

17.942057942 MHz

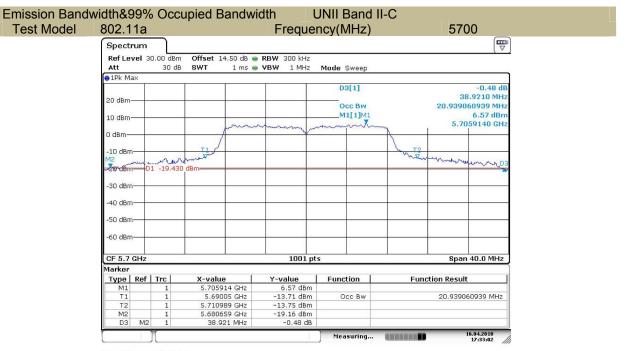
16.04.2018 17:32:00

Date: 16.APR.2018 17:31:59

M2 D3

M1 T1 T2 M2



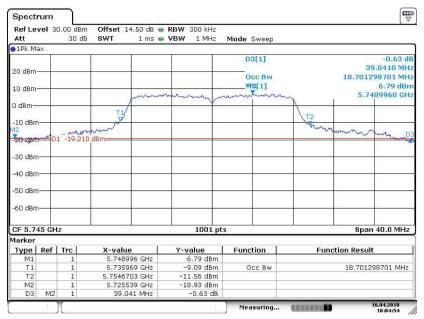


Date: 16.APR.2018 17:33:02



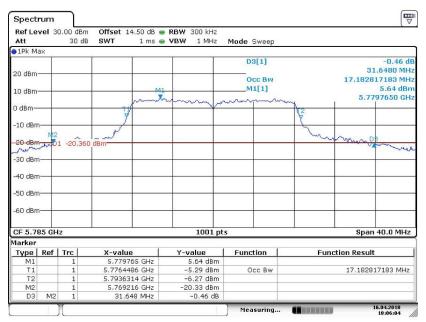
Emission Bandwidth&99% Occupied Bandwidth UNII Band III

Test Model 802.11a Frequency(MHz) 5745



Date: 16.APR.2018 18:04:54

Emission Bandwidth&99% Occupied Bandwidth UNII Band III
Test Model 802.11a Frequency(MHz) 5785



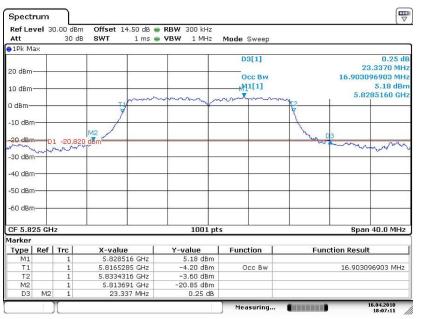
Date: 16.APR.2018 18:06:04

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Emission Bandwidth&99% Occupied Bandwidth UNII Band III

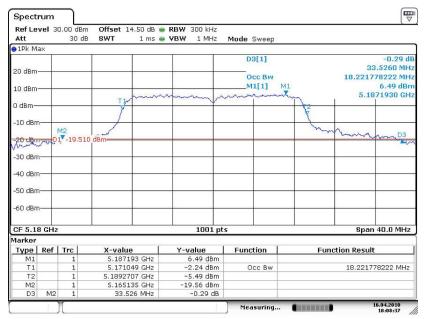
Test Model 802.11a Frequency(MHz) 5825



Date: 16.APR.2018 18:07:11

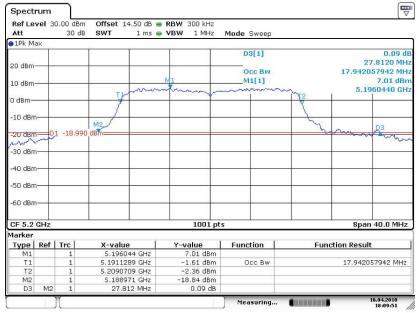


Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11n(HT20) mode Frequency(MHz) 5180



Date: 16.APR.2018 18:08:37

Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11n(HT20) mode Frequency(MHz) 5200

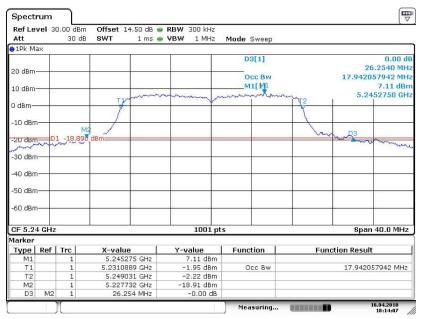


Date: 16.APR.2018 18:09:51

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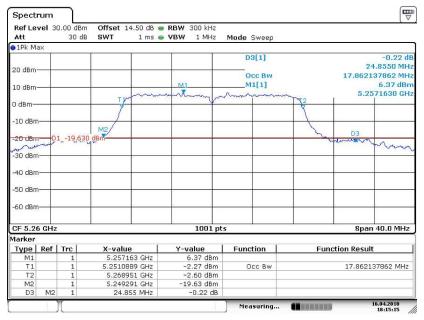
Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11n(HT20) mode Frequency(MHz) 5240



Date: 16.APR.2018 18:14:06

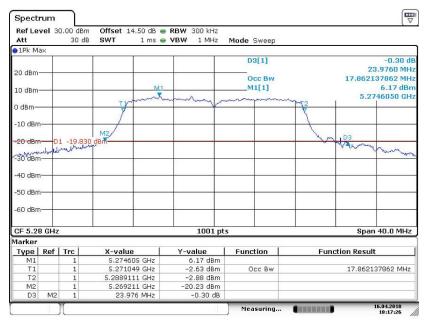


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11n(HT20) mode Frequency(MHz) 5260



Date: 16.APR.2018 18:15:14

Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11n(HT20) mode Frequency(MHz) 5280

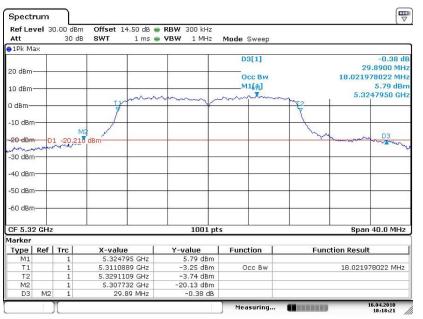


Date: 16.APR.2018 18:17:26

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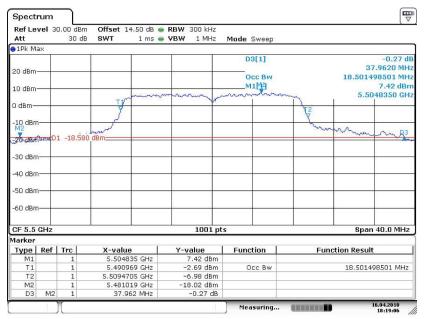
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11n(HT20) mode Frequency(MHz) 5320



Date: 16.APR.2018 18:18:21

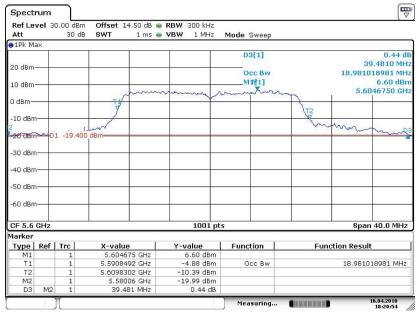


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11n(HT20) mode Frequency(MHz) 5500



Date: 16.APR.2018 18:19:05

Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11n(HT20) mode Frequency(MHz) 5600

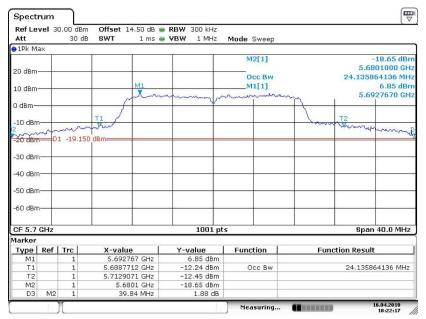


Date: 16.APR.2018 18:20:54

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Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11n(HT20) mode Frequency(MHz) 5700

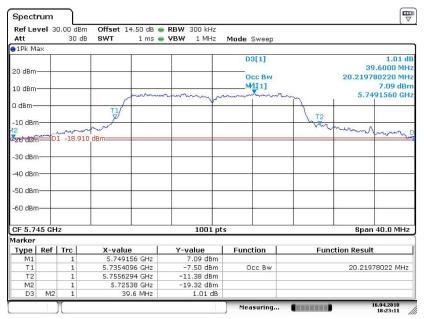


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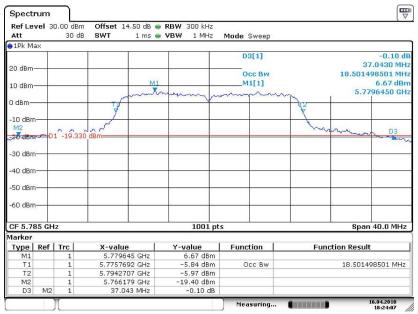
Emission Bandwidth&99% Occupied Bandwidth UNII Band III

Test Model 802.11n(HT20) mode Frequency(MHz) 5745



Date: 16.APR.2018 18:23:11

Emission Bandwidth&99% Occupied Bandwidth UNII Band III
Test Model 802.11n(HT20) mode Frequency(MHz) 5785

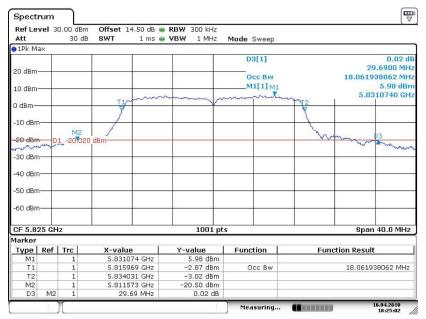


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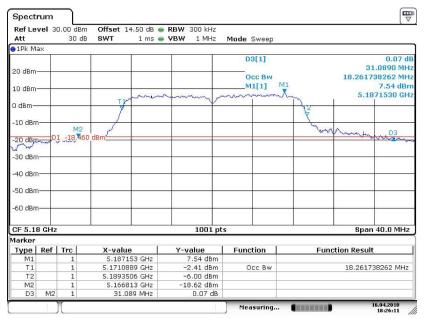
Emission Bandwidth&99% Occupied Bandwidth UNII Band III
Test Model 802.11n(HT20) mode Frequency(MHz) 5825



Date: 16.APR.2018 18:25:02

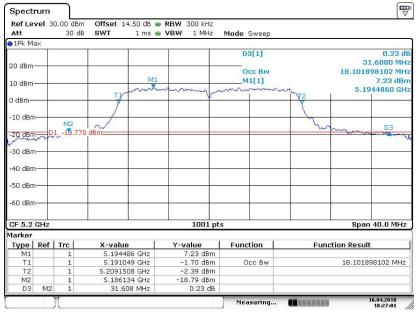


Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5180



Date: 16.APR.2018 18:26:10

Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5200

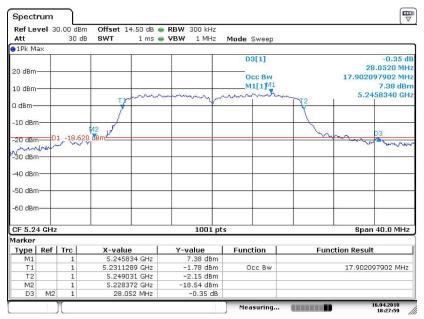


Date: 16.APR.2018 18:27:01

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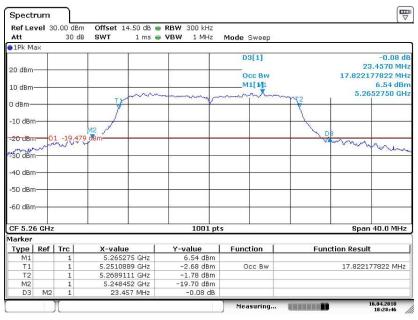
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Test Model 802.11ac(VHT20) mode Frequency(MHz) 5240



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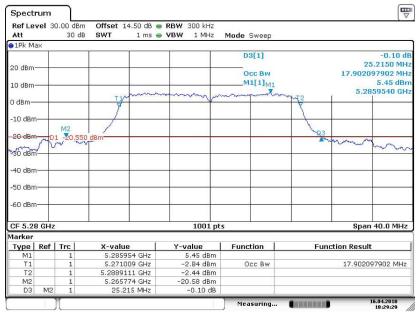


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5260



Date: 16.APR.2018 18:28:45

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Test Model 802.11ac(VHT20) mode Frequency(MHz) 5280

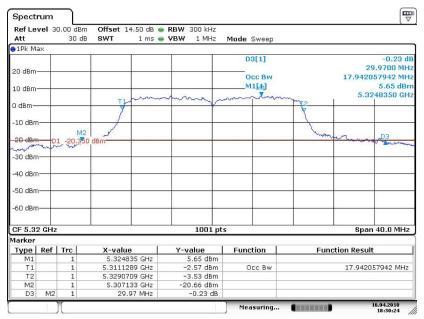


Date: 16.APR.2018 18:29:29

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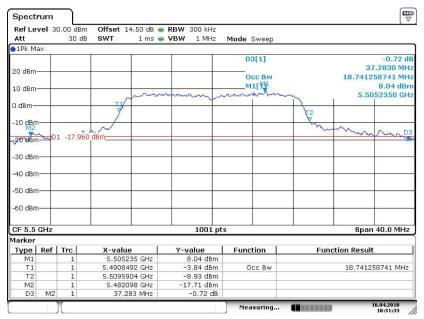
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Test Model 802.11ac(VHT20) mode Frequency(MHz) 5320



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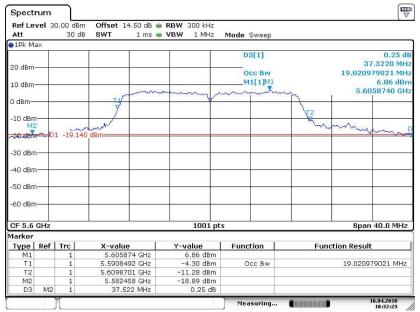


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5500



Date: 16.APR.2018 18:31:33

Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5600

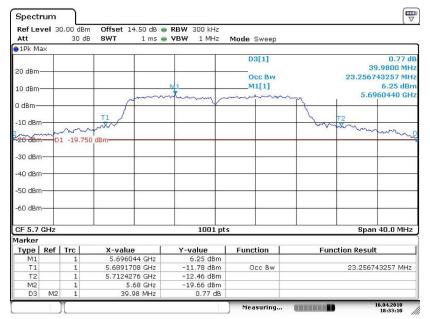


Date: 16.APR.2018 18:32:23

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Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5700

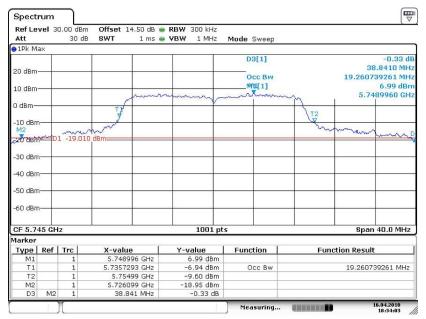


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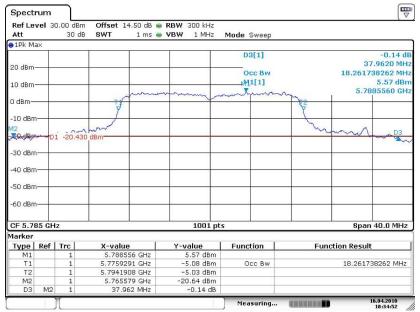
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Test Model 802.11ac(VHT20) mode Frequency(MHz) 5745



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Emission Bandwidth&99% Occupied Bandwidth UNII Band III
Test Model 802.11ac(VHT20) mode Frequency(MHz) 5785

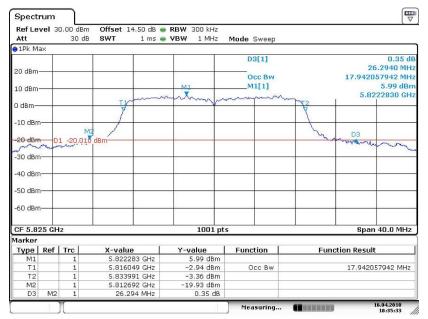


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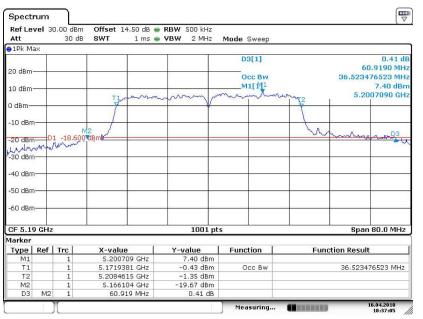
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Test Model 802.11ac(VHT20) mode Frequency(MHz) 5825



Date: 16.APR.2018 18:35:32

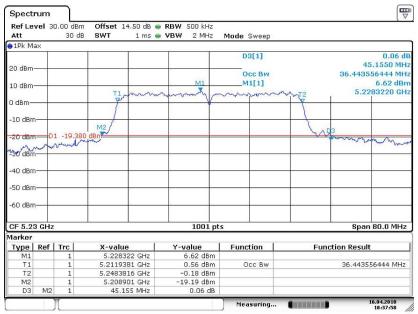


Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11n(HT40) mode Frequency(MHz) 5190



Date: 16.APR.2018 18:37:04

Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11n(HT40) mode Frequency(MHz) 5230

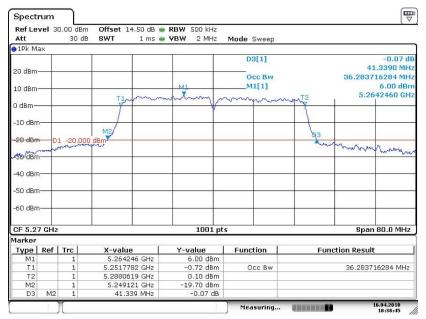


Date: 16.APR.2018 18:37:57

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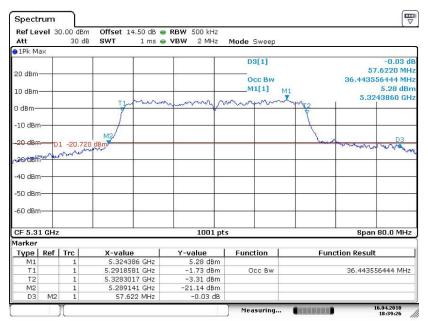


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11n(HT40) mode Frequency(MHz) 5270



Date: 16.APR.2018 18:38:44

Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11n(HT40) mode Frequency(MHz) 5310

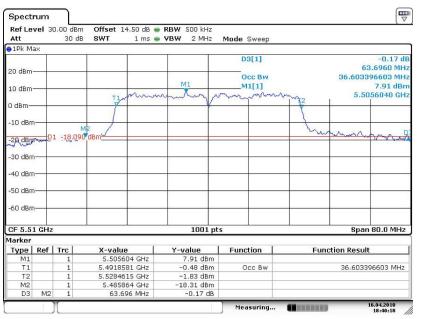


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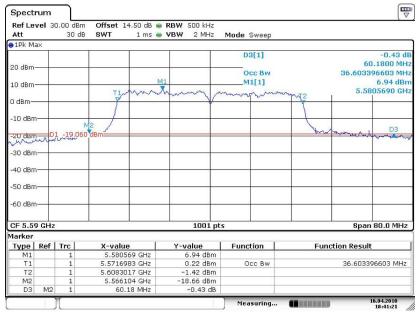


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11n(HT40) mode Frequency(MHz) 5510



Date: 16.APR.2018 18:40:18

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Test Model 802.11n(HT40) mode Frequency(MHz) 5590

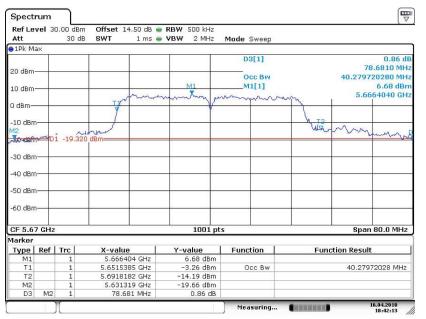


Date: 16.APR.2018 18:41:21

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Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11n(HT40) mode Frequency(MHz) 5670

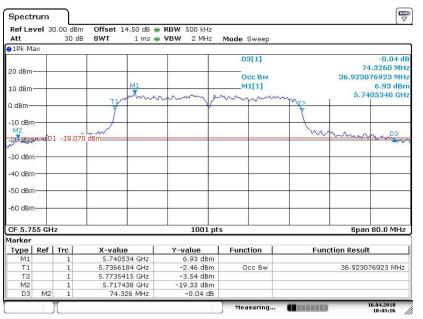


Date: 16.APR.2018 18:42:13



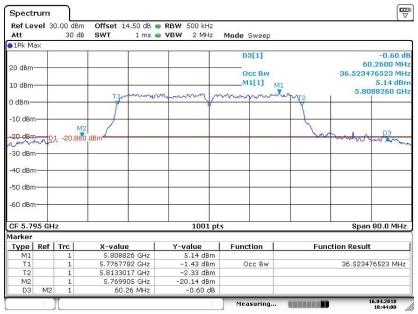
Emission Bandwidth&99% Occupied Bandwidth UNII Band III

Test Model 802.11n(HT40) mode Frequency(MHz) 5755



Date: 16.APR.2018 18:43:16

Emission Bandwidth&99% Occupied Bandwidth UNII Band III
Test Model 802.11n(HT40) mode Frequency(MHz) 5795

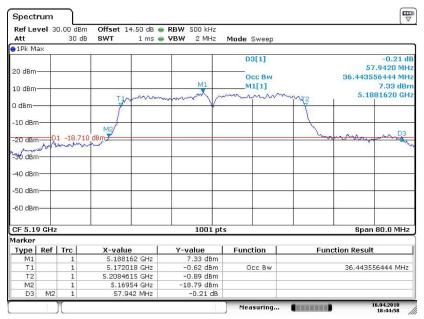


Date: 16.APR.2018 18:44:00

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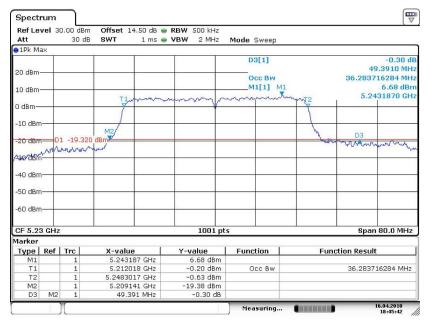


Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5190



Date: 16.APR.2018 18:44:58

Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5230

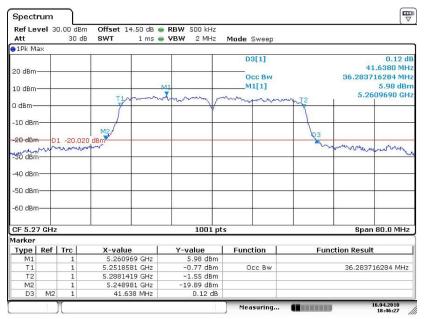


Date: 16.APR.2018 18:45:41

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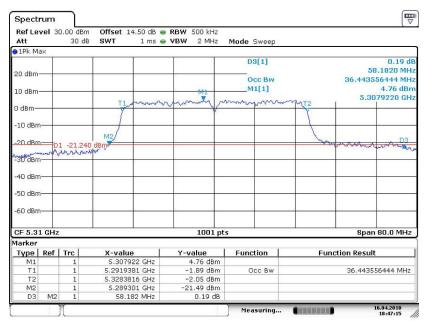


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5270



Date: 16.APR.2018 18:46:26

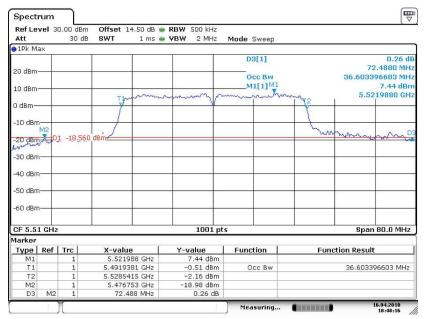
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5310



Date: 16.APR.2018 18:47:15

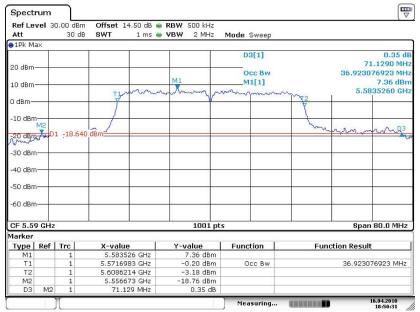


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5510



Date: 16.APR.2018 18:48:16

Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5590

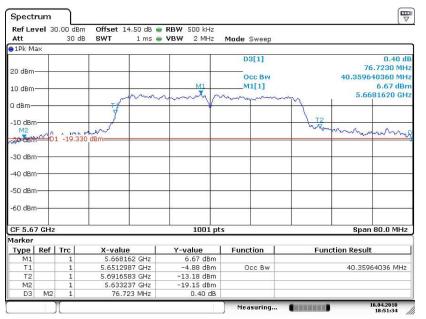


Date: 16.APR.2018 18:50:31

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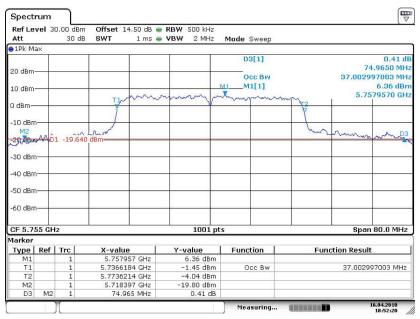
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5670



Date: 16.APR.2018 18:51:34



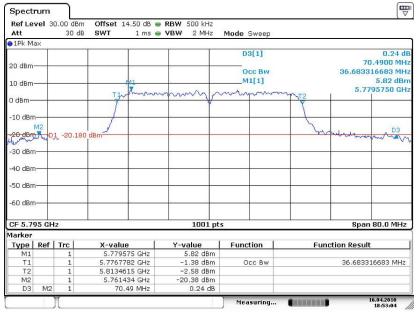
Emission Bandwidth&99% Occupied Bandwidth UNII Band III
Test Model 802.11ac(VHT40) mode Frequency(MHz) 5755



Date: 16.APR.2018 18:52:20

Emission Bandwidth&99% Occupied Bandwidth UNII Band III

Test Model 802.11ac(VHT40) mode Frequency(MHz) 5795

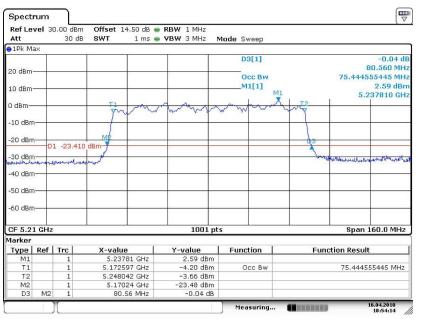


Date: 16.APR.2018 18:53:04

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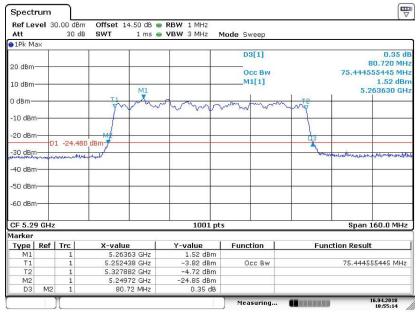


Emission Bandwidth&99% Occupied Bandwidth UNII Band I
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5210



Date: 16.APR.2018 18:54:14

Emission Bandwidth&99% Occupied Bandwidth UNII Band II-A
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5290

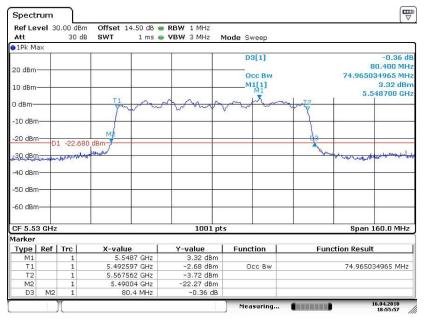


Date: 16.APR.2018 18:55:13

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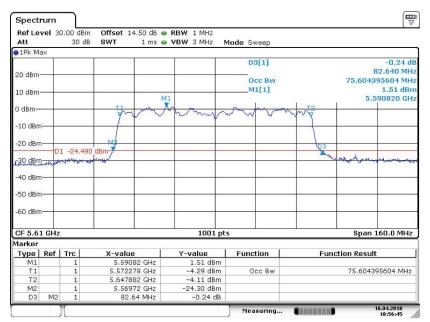


Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5530



Date: 16.APR.2018 18:55:57

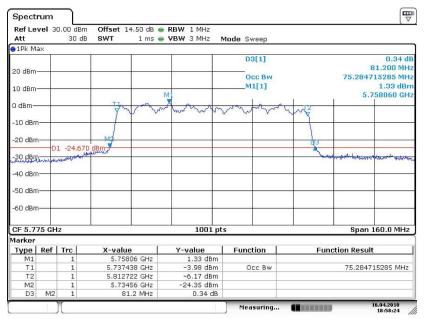
Emission Bandwidth&99% Occupied Bandwidth UNII Band II-C
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5610



Date: 16.APR.2018 18:56:44



Emission Bandwidth&99% Occupied Bandwidth UNII Band III
Test Model 802.11ac(VHT80) mode Frequency(MHz) 5775



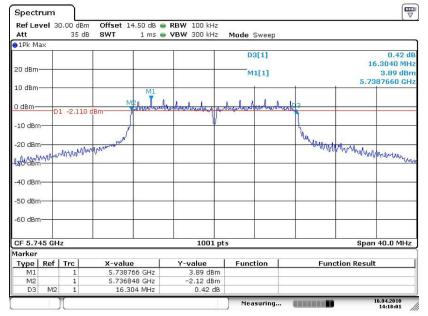
Date: 16.APR.2018 18:58:24



Minimum Emission Bandwidth
Test Model 802.11a mode

UNII Band III Frequency(MHz)

5745

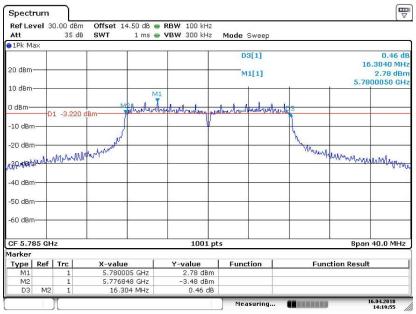


Date: 16.APR.2018 14:18:01

Minimum Emission Bandwidth

Test Model 802.11a mode Frequency(MHz)

5785



Date: 16.APR.2018 14:19:54

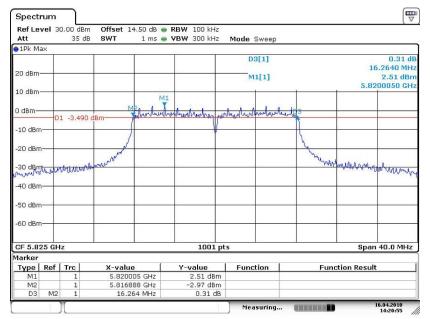
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Minimum Emission Bandwidth
Test Model 802.11a mode

UNII Band III Frequency(MHz)

5825



Date: 16.APR.2018 14:20:55