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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Digi International Inc

> 9350 Excelsior Blvd., Suite 700 Hopkins, MN 55343

Product Name: ConnectCore 8X

Brand Name: Digi Model No.: CC8X **Model Difference:** N/A

Report Number: ER/2019/B0067 FCC ID: MCQ-CCIMX8 IC: 1846A-CCIMX8 **FCC Rule Part:** §15.407, Cat: NII

ISED RSS: RSS-247 issue 2 Feb. 2017

Jul. 13, 2020 Issue Date:

Dec. 04, 2019 ~ Feb 07, 2020 Date of Test:

Date of EUT Dec. 04, 2019

Received:

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab 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 conducted and radiated emission limits.

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

Approved By: CHUN, CHIEH, CHIEN

CHUN-CHIEH, CHEN / Supervisor





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Revision History				
Report Number	Revision	Description	Issue Date	Remark
ER/2019/B0067	Rev.00	Original.	Jun. 13, 2020	Revised By: Susan Lin

Note:

- 1 · Disclaimer Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
- 2 . The test data in this test report is fully leveraged from the TAF code 0513. Since the laboratory's TAF code has been updated to 3702, this test report is being issued by the laboratory of TAF code 3702.

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GENERAL INFORMATION

1.1 **Product Description**

Product Nan	Product Name: ConnectCore 8X			
Brand Name) :	Digi		
Model No.:		CC8X		
Model Differ	ence:	N/A		
Hardware Ve	ersion:	55001984-02 rev 4P		
Software Version:		82004286 rev 4P		
EUT Serial N	lumber:	F191001000424		
		5Vdc from AC/DC Adapter		
Power Suppl	ly:	Adapter: Model No.: GT-46180-1605, Supplier:. GlobTek, Inc.		
Modulation type:		64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only		
Transition Rate:	802.11 n_2	802.11 ac_20MHz: 6.5 –173.3Mbps 802.11 ac_40MHz: 13.5 –400.0Mbps 802.11 ac_80MHz: 29.3 – 866.7Mbps		

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1.2 **Antenna Designation**

An- tenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)	Worst Antenna Gain
			5150~5250	4.9	7.91	
DCD	VACEO	A NITV400D004D04EE0	5250~5350	3.9	6.91	
PCB	YAGEO	ANTX100P001B24553	5470~5725	5.1	8.11	
			5725~5850	5.1	8.11	
			5150~5250	6.11	9.12	V
РСВ	TAOGLAS	FXP830.07.0100C	5250~5350	6.11	9.12	V
РСБ	IAUGLAS	FAP630.07.0100C	5470~5725	6.11	9.12	V
			5725~5850	6.11	9.12	V
			5150~5250	4.56	7.57	
Dinala	TACCLAS	C\N/40 A4E4	5250~5350	4.56	7.57	
Dipole	TAOGLAS	GW.48.A151	5470~5725	4.56	7.57	
			5725~5850	4.56	7.57	
		S FXP522.A.07.A.001	5150~5250	4.63 (Port 1) 4.61 (Port 2)	7.64	
DCD	TA OCL AC		5250~5350	4.63 (Port 1) 4.61 (Port 2)	7.64	
PCB	TAOGLAS		5470~5725	4.63 (Port 1) 4.61 (Port 2)	7.64	
			5725~5850	4.63 (Port 1) 4.61 (Port 2)	7.64	
			5150~5250	4.6	7.61	V
Dipole	Linx	ANT-DB1-RAF-RPS	5250~5350	4.6	7.61	V
Dipole	LIIIX	ANT-DDT-IVAL-IVI O	5470~5725	4.6	7.61	V
			5725~5850	4.6	7.61	V
			5150~5250	5	8.01	
РСВ	ether-	1001932	5250~5350	5	8.01	
	tronic	1001302	5470~5725	5	8.01	
			5725~5850	5	8.01	
			5150~5250	5.5	8.51	
PCB	TAOGLAS	FXP831.07.0100C	5250~5350	5.5	8.51	
ם ו	IACGLAG	1ACGLAG 1AF631.07.0100C	5470~5725	5.5	8.51	
			5725~5850	5.5	8.51	

Note: Pre-scanned was done on the above 7 antennas, the PCB (FXP830.07.0100C) and Dipole (ANT-DB1-RAF-RPS) results higher emission at 5GHz. Therefore, the completed set of measurement was done on the antenna to be presented on this test report.

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1.3 FCC worst power

	 		,	
Wi-Fi	Frequency	Channels	Rated Power (Avg.)	Modulation
802.11	Range	Onamicis	(dBm) (Worst case)	Technology
	5150~5250	4	11.99	
	5250~5350	4	16.55	OFDM
а	5470~5725	12	16.16	OFDIVI
	5725-5850	5	16.24	
	5150~5250	4	HT: 12.49	
n_HT	5250~5350	4	HT: 15.56	OFDM
ac_VHT 20M	5470~5725	12	HT: 15.49	OFDIVI
20	5725-5850	5	HT: 15.22	
	5150~5250	2	HT: 13.67	
n_HT	5250~5350	2	HT: 15.74	OFDM
ac_VHT 40M	5470~5725	5	HT: 15.81	OFDIVI
	5725-5850	2	HT: 15.48	
ac_VHT 80M	5150~5250	1	VHT: 11.01	
	5250~5350	1	VHT: 10.22	OFDM
	5470~5725	2	VHT: 14.42	OFDIVI
	5725-5850	1	VHT: 13.87	

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1.4 **ISED** worst power

Wi-Fi 802.11	Frequency Range	Channels	Avg. or EIRP	Rated Power(dBm) (Worst Case)	Modulation Technology
	5150~5250	4	EIRP	21.11	
11a	5250~5350	4	Avg.	16.55	OFDM
IIa	5470~5725	12	Avg.	16.16	OFDIVI
	5725-5850	5	Avg.	16.24	
	5150~5250	4	EIRP	HT: 21.61	
11n_HT /	5250~5350	4	Avg.	HT: 15.56	OFDM
ac_VHT 20M	5470~5725	12	Avg.	HT: 15.49	
	5725-5850	5	Avg.	HT: 15.22	
	5150~5250	2	EIRP	HT: 22.79	
11n_HT /	5250~5350	2	Avg.	HT: 15.74	OFDM
ac_VHT 40M	5470~5725	6	Avg.	HT: 15.81	OFDM
10.00	5725-5850	2	Avg.	HT: 15.48	
11ac VHT80M	5150~5250	1	EIRP	20.13	
	5250~5350	1	Avg.	10.22	OEDM
	5470~5725	2	Avg.	14.42	OFDM
	5725-5850	1	Avg.	13.87	

Note:

As per guidance in presentation 2018-04-10-03 IC Certification updates of April 2018 TCB workshop, Client (Slave mode) devices without active scanning function, but with the cabability of operating in 5600-5650 MHz solely under the control of a certified master device meeting the requirement of RSS-247, are allowed in Canada.

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1.5 **Test Methodology of Applied Standards**

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5, Amendment 1, March 2019

ANSI C63.10:2013

1.6 **Test Facility**

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0027

ISED CAB identifier: TW3702

1.7 **Special Accessories**

There are no special accessories used while test was conducted.

Equipment Modifications 1.8

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz. The EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 **Configuration of Tested System**

Fig. 2-1 Radiated Emission & Conducted (AC powerline) Emission

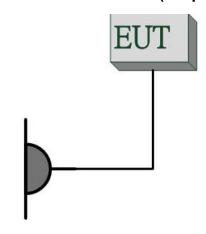


Fig. 2-3 Conducted (Antenna Port) Emission



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2	Notebook	Lenovo	L430	R9-X11BG	Unshielded	Shielded

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3 SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	RSS-Gen §6.7 RSS-247 §6.2.4.1	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.407(g)	RSS-Gen §6.11	Frequency Stability	Compliant
§15.203 §15.407(a)	RSS- Gen §6.8	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES

4.1 802.11a/n/ac operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

<u> </u>			
20 M			
СН	Freq	ĺ	
GH	(MHz)		
36	5180		
40	5200		
44	5220		
48	5240	ĺ	

d in 5150 MH						
	4	0 M				
	СН	Freq (MHz)				
	38	5190				
	46	5230				

٠;	-5250 MHZ:			
	8	0 M		
	СН	Freq		
		(MHz)		
	42	5210		
•				

Operated band in 5250 MHz ~5350 MHz:

Operated R					
2	20 M				
СН	Freq				
011	(MHz)				
52	5260				
56	5280				
60	5300				
64	5320				

'	<u> </u>	JE 00 111		
	40 M			
	СН	Freq		
	СП	(MHz)		
	54	5270		
	62	5310		

	· · · · · · · · · · · · · · · · · · ·				
80 M					
СН	Freq				
0	(MHz)				
58	5290				

Operated band in 5470 MHz ~5725 MHz:

2	20 M					
СН	Freq (MHz)					
100	5500					
104	5520					
108	5540					
112	5560					
116	5580					
120	5600					
124	5620					
128	5640					
132	5660					
136	5680					
140	5700					

III 347 U IVIT						
40 M						
СН	Freq					
OH	(MHz)					
102	5510					
110	5550					
118	5590					
126	5630					
134	5670					

J U				
80 M				
СН	Freq			
5	(MHz)			
106	5530			
122	5610			
·	•			

Operated band in 5745 MHz ~5850 MHz:

2	20 M				
СН	Freq (MHz)				
149	5745				
153	5765				
157	5785				
161	5805				
165	5825				

"	י ווו ג	7743 IV				
	40 M					
	СН	Freq				
		(MHz)				
	151	5755				
	159	5795				

	300	U IVITIZ.		
	80 M			
	СН	Freq		
		(MHz)		
	155	5775		

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4.2 The Worst Test Modes and Channel Details

- The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
⊠ 802.11 a	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	⊠ 1TX	⊠ TX
⊠ 802.11 n	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	⊠ SISO	⊠ MIMO
⊠ 802.11 ac	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	⊠ SISO	⊠ MIMO
☐ 802.11 ax	□ Ch0	□ Ch1	☐ Ch2	□ Ch3	☐ SISO	☐ MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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4.2.1 **RADIATED EMISSION TEST:**

RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)		TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN- TENNA PORT	
	5180~5240	36 to 48	36,44,48	OFDM	6	2TX	
802.11a	5260~5320	52 to 64	52,60,64				
002.114	5500~5700	100 to 140	100,116,140,				
	5745~5825	149 to 165	149,157,165				
	5210	42	42	OFDIVI			
902 11aa VUT90	5290	58	58	MCS0	MCSO	NAINAO	
802.11ac_VHT80	5530~5610	106 to 122	106,122		MIMO		
	5775	155	155				

RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN- TENNA PORT	
	5180~5240	36 to 48	36,44,48				
802.11a	5260~5320	52 to 64	52,60,64		6	2TX	
002.114	5500~5700	100 to 140	100,116,140		0	217	
	5745~5825	149 to 165	149,157,165				
	5180~5240	36 to 48	36,44,48	MCS8	MCCO	MIMO	
900 11n UT00	5260~5320	52 to 64	52,60,64				
802.11n_HT20	5500~5700	100 to 140	100,116,140		IVIIIVIO		
	5745~5825	149 to 165	149,157,165				
	5190~5230	38 to 46	38,46	OFDM	MCCO	МІМО	
900 11n UT40	5270~5310	54 to 62	54,62	MCS8			
802.11n_HT40	5510~5670	102 to 134	102,110,134		IVICSO		
	5755~5795	151 to 159	151,159				
	5210	42	42				
002 11aa \/UT00	5290	58	58	MOCO	NAINAO		
802.11ac_VHT80	5530~5610	106 to 122	106,122]	MCS0	MIMO	
	5775	155	155				

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

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4.2.2 ANTENNA PORT CONDUCTED MEASUREMENT:

		CONDU	CTED TEST			
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	AN- TENNA PORT
	5180~5240	36 to 48	36,44,48			
802.11a	5260~5320	52 to 64	52,60,64		6	2TX
002.118	5500~5700	100 to 140	100,116,140		0	217
	5745~5825	149 to 165	149,157,165			
	5180~5240	36 to 48	36,44,48			
900 11n UT00	5260~5320	52 to 64	52,60,64		MCCO	NAINAO
802.11n_HT20	5500~5700	100 to 140	100,116,140		MCS8	MIMO
	5745~5825	149 to 165	149,157,165			
	5180~5240	36 to 48	36,44,48			
802.11ac VHT20	5260~5320	52 to 64	52,60,64	OFFIN	MCS0	МІМО
_	5500~5700	100 to 140	100,116,140			
	5745~5825	149 to 165	149,157,165			
	5190~5230	38 to 46	38,46	OFDM	MOCO	MIMO
000 44 × UT40	5270~5310	54 to 62	54,62			
802.11n_HT40	5510~5670	102 to 134	102,110,134		MCS8	
	5755~5795	151 to 159	151,159			
	5190~5230	38 to 46	38,46			
802.11ac_VHT40	5270~5310	54 to 62	54,62		MCS0	N 41N 40
_	5510~5670	102 to 134	102,110,134		IVICSU	MIMO
	5755~5795	151 to 159	151,159			
	5210	42	42			
902 11aa \/UT90	5290	58	58		MCSO	MINAC
802.11ac_VHT80	5530~5610	106 to 122	106,122		MCS0	MIMO
	5775	155	155			

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MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Meas- urement	+/- 0.96 dB
Peak Power Spectral Density Meas- urement	+/- 1.67 dB
Frequency Stability	+/- 123.36 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission Measurement Uncertainty							
	9kHz~30MHz: +-2.3dB						
	30MHz - 180MHz: +/- 3.37dB						
Polarization: Vertical	180MHz -417MHz: +/- 3.19dB						
Polarization. Vertical	0.417GHz-1GHz: +/- 3.19dB						
	1GHz - 18GHz: +/- 4.04dB						
	18GHz - 40GHz: +/- 4.04dB						
	9kHz~30MHz: +-2.3dB						
	30MHz - 167MHz: +/- 4.22dB						
Polarization: Horizontal	167MHz -500MHz: +/- 3.44dB						
Polarization. Horizontal	0.5GHz-1GHz: +/- 3.39dB						
	1GHz - 18GHz: +/- 4.08dB						
	18GHz - 40GHz: +/- 4.08dB						

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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CONDUCTED EMISSION TEST

Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range	Lin dB(nits uV)
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

6.2 **Measurement Equipment Used**

	Conducted Emission Test Site									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUM- BER	LAST CAL.	CAL DUE.					
EMI Test Receiver	R&S	ESCI 3	100335	02/12/2019	02/11/2020					
LISN	SCHWARZ- BECK	NSLK 8127	8127-649	04/02/2019	04/01/2020					
Coaxial Cables	N/A	WK CE Cable	N/A	01/02/2020	01/01/2021					
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R	N.C.R					

6.3 **EUT Setup**

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- 3. The LISN was connected with 120Vac/60Hz power source.

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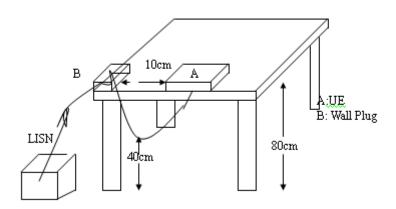
^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50



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Test SET-UP 6.4



6.5 **Measurement Procedure**

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed.

6.6 **Measurement Result**

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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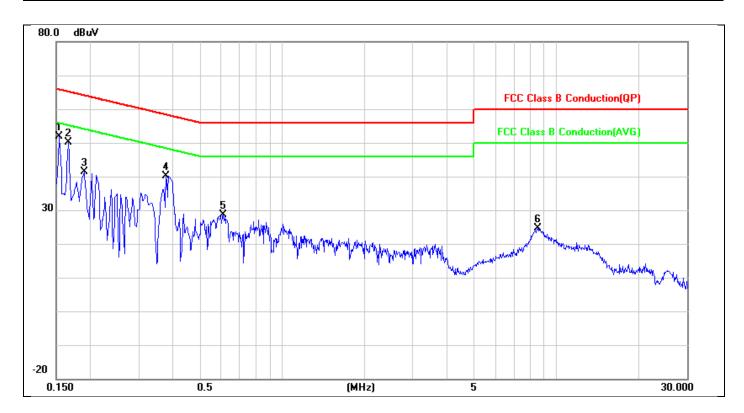
AC POWER LINE CONDUCTED EMISSION TEST DATA

Dipole Antenna (Part No.: ANT-DB1-RAF-RPS)

Description: Operation 2020/02/06 Date: Temp.(°C)/Hum.(%): 20.5(°C)/67% Line:

Test Voltage: AC 120V/60Hz Test By: **Thomas**

Report Number: ER-2019-B0067



		Freq.	Reading	Factor	Measure-	Limit	Over		
No.	Mk.				ment			Detector	Comment
		(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
1	*	0.1540	51.88	0.00	51.88	65.78	-13.90	peak	
2		0.1660	50.05	0.00	50.05	65.16	-15.11	peak	
3		0.1900	41.38	0.01	41.39	64.04	-22.65	peak	
4		0.3780	40.20	0.01	40.21	58.32	-18.11	peak	
5	·	0.6100	28.71	0.01	28.72	56.00	-27.28	peak	
6		8.5740	24.40	0.25	24.65	60.00	-35.35	peak	

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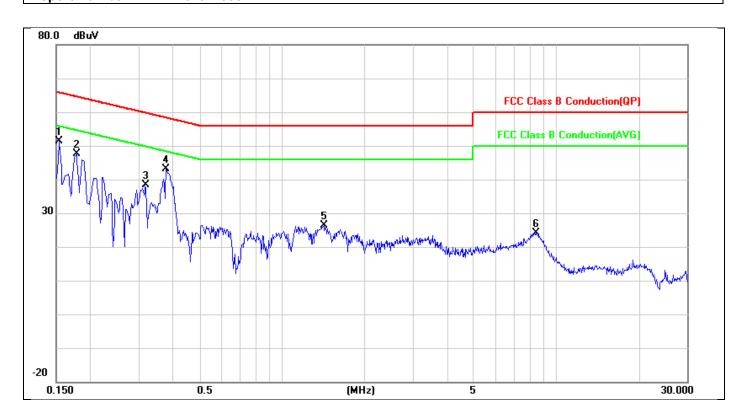
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Description: Operation Date: 2020/02/06

Temp.(°C)/Hum.(%): 20.5(°C)/67% Line:

Test Voltage: AC 120V/60Hz Test By: **Thomas**

Report Number: ER-2019-B0067



		Freq.	Reading	Factor	Measure-	Limit	Over		
No.	Mk.				ment			Detector	Comment
		(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
1	*	0.1540	51.34	0.00	51.34	65.78	-14.44	peak	
2		0.1780	47.60	0.01	47.61	64.58	-16.97	peak	
3		0.3180	38.36	0.01	38.37	59.76	-21.39	peak	
4		0.3780	43.22	0.01	43.23	58.32	-15.09	peak	
5		1.4220	26.29	0.03	26.32	56.00	-29.68	peak	
6		8.4180	23.84	0.25	24.09	60.00	-35.91	peak	

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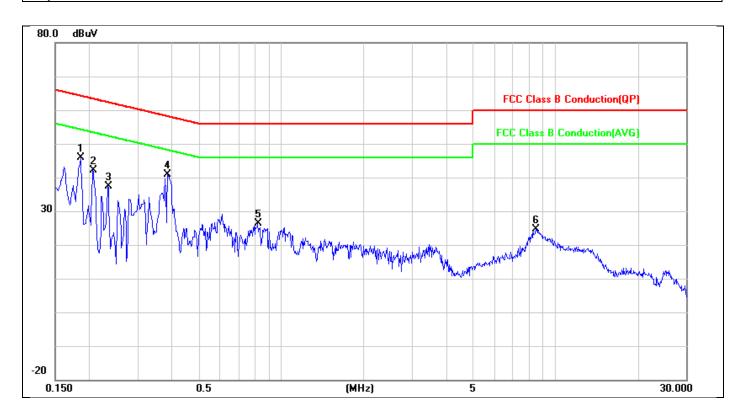
PCB Antenna (Part No.: FXP830.07.0100C)

Description: Operation Date: 2020/02/06

Temp.(°C)/Hum.(%): 20.5(°C)/67% Line: L1

Test Voltage: AC 120V/60Hz Test By: **Thomas**

Report Number: ER-2019-B0067



		Freq.	Reading	Factor	Measure-	Limit	Over		
No.	Mk.				ment			Detector	Comment
		(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
1		0.1860	45.77	0.01	45.78	64.21	-18.43	peak	
2		0.2060	42.00	0.01	42.01	63.37	-21.36	peak	
3		0.2340	37.45	0.01	37.46	62.31	-24.85	peak	
4	*	0.3860	40.92	0.01	40.93	58.15	-17.22	peak	
5		0.8260	26.42	0.02	26.44	56.00	-29.56	peak	
6		8.5220	24.42	0.25	24.67	60.00	-35.33	peak	

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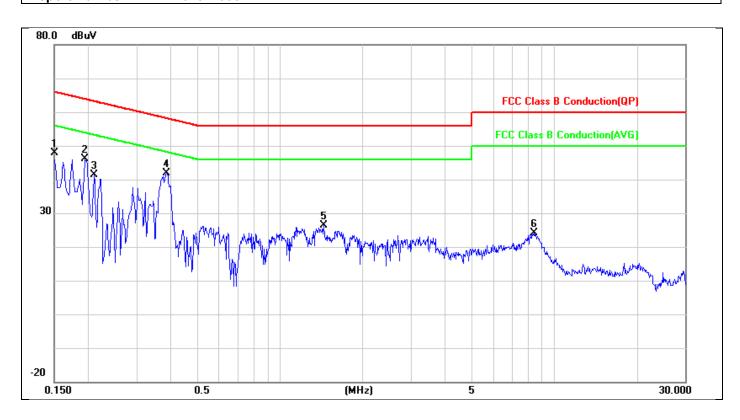
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Description: Operation Date: 2020/02/06

Temp.(°C)/Hum.(%): 20.5(°C)/67% Line:

Test Voltage: AC 120V/60Hz Test By: **Thomas**

Report Number: ER-2019-B0067



		Freq.	Reading	Factor	Measure-	Limit	Over		
No.	Mk.				ment			Detector	Comment
		(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
1		0.1500	47.86	0.00	47.86	66.00	-18.14	peak	
2		0.1940	46.08	0.01	46.09	63.86	-17.77	peak	
3		0.2100	41.42	0.01	41.43	63.21	-21.78	peak	
4	*	0.3860	41.77	0.01	41.78	58.15	-16.37	peak	
5		1.4460	26.32	0.03	26.35	56.00	-29.65	peak	
6		8.4740	23.98	0.25	24.23	60.00	-35.77	peak	_

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DUTY CYCLE TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1 **Measurement Procedure:**

- 1. Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak

Duty Cycle:

<u> </u>				
Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	95.00	0.22	0.49	1.00
802.11n_20	92.19	0.35	0.53	1.00
802.11ac_20	94.62	0.24	0.53	1.00
802.11n_40	90.61	0.43	1.08	2.00
802.11ac_40	86.82	0.61	1.07	2.00
802.11ac_80	78.57	1.05	2.20	3.00

Duty Cycle Factor: 10 * log(1/0.95) = 0.22 Duty Cycle Factor: 10 * log(1/0.9219) = 0.35 Duty Cycle Factor: 10 * log(1/0.9462) = 0.24 Duty Cycle Factor: 10 * log(1/0.9061) = 0.43 Duty Cycle Factor: 10 * log(1/0.8682) = 0.61 Duty Cycle Factor: 10 * log(1/0.7857) = 1.05

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7.2 **DUTY CYCLE TEST SIGNAL MEASUREMENT RESULT**

802.11a



802.11n HT20



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802.11ac VHT20



802.11n HT 40



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802.11ac VHT 40



802.11ac VHT 80



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26DB, 99% &6DB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C. The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

8.2 **Measurement Procedure**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto,

Detector = Peak,

Trace Mode = Max Hold,

Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.

- 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
- 4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
- 5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as

RBW = 100 kHz,

VBW = 3*RBW.

Span = 30M/50MHz,

Detector=Peak,

Sweep=auto

- b. Mark the peak frequency and -6dB (upper and lower) frequency.
- 6. For 99% Bandwidth: Set the spectrum analyzer as

RBW=1%,

VBW = 3*RBW

Span = 30M/50MHz,

Detector=Sample,

Sweep=auto.

- 7. Turn on the 99% bandwidth function, max reading.
- 8. Repeat above procedures until all frequency of interest measured was complete.

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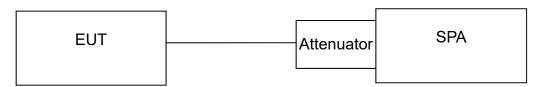


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8.3 **Measurement Equipment Used**

SGS Conducted Room										
EQUIPMENT TYPE MFR MODEL SERIAL NUM-BER BER LAST CAL. CAL DU										
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020					
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2020	01/04/2021					
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2020	01/04/2021					

Test Set-up 8.4



8.5 **Measurement Result**

8.5.1 FCC 26dB Bandwidth

802.	11a	Ch0

802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.43	12.885	5180	19.92	12.993
5220	19.48	12.896	5220	25.61	14.084
5240	19.17	12.826	5240	20.99	13.220
5260	18.78	12.737	5260	22.15	13.454
5300	19.58	12.918	5300	20.18	13.049
5320	19.26	12.847	5320	18.88	12.760
5500	18.93	12.772	5500	19.32	12.860
5580	21.84	13.393	5580	21.52	13.328
5700	19.05	12.799	5700	19.22	12.838

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802.11n HT20	Ch0	802.11n	HT20	Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.84	12.975	5180	20.07	13.025
5220	19.88	12.984	5220	20.13	13.038
5240	19.75	12.956	5240	19.76	12.958
5260	19.79	12.964	5260	19.79	12.964
5300	19.75	12.956	5300	19.84	12.975
5320	19.82	12.971	5320	19.8	12.967
5500	19.82	12.971	5500	19.77	12.960
5580	21.03	13.228	5580	20.98	13.218
5700	19.81	12.969	5700	19.83	12.973

802.11n _HT40_Ch0 802.11n _HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	41.93	16.225	5190	42.56	16.290
5230	42.21	16.254	5230	40.87	16.114
5270	42.93	16.328	5270	40.28	16.051
5310	41.61	16.192	5310	42.63	16.297
5510	42.98	16.333	5510	43.17	16.352
5550	48.95	16.898	5550	49.46	16.943
5670	42.52	16.286	5670	41.69	16.200

802.11ac VHT80 Ch0 802.11ac _VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.99	19.084	5210	82.21	19.149
5290	82.01	19.139	5290	82.86	19.183
5530	81.85	19.130	5530	81.09	19.090
5610	81.16	19.093	5610	83.4	19.212

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8.5.2 6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC

802.11a Ch0

802.11a Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.31	11.850	5745	14.47	11.605
5785	15.07	11.781	5785	14.51	11.617
5825	14.85	11.717	5825	15.09	11.787

802.11n_HT20_Ch0

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.12	11.796	5745	15.16	11.807
5785	15.18	11.813	5785	15.17	11.810
5825	15.17	11.810	5825	15.13	11.798

802.11n_HT40_Ch0

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.89	15.301	5755	35.12	15.456
5795	35.08	15.451	5795	35.15	15.459

802.11ac _VHT80_Ch0

802.11ac _VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.18	18.761	5775	75.19	18.762

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8.5.3 ISED 99% Bandwidth

802.11a_Ch0

802.11a_Ch1

_			_		
Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.339	12.132	5180	16.363	12.139
5220	16.334	12.131	5220	16.383	12.144
5240	16.301	12.122	5240	16.384	12.144
5260	16.306	12.123	5260	16.358	12.137
5300	16.333	12.131	5300	16.354	12.136
5320	16.335	12.131	5320	16.346	12.134
5500	16.291	12.119	5500	16.321	12.127
5580	16.416	12.153	5580	16.411	12.151
5700	16.332	12.130	5700	16.291	12.119

802.11n HT20 Ch0

802.11n HT20 Ch1

002.1111_11120_01	10		002.1111_11120_0111			
Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	
5180	17.417	12.410	5180	17.425	12.412	
5220	17.421	12.411	5220	17.436	12.414	
5240	17.421	12.411	5240	17.427	12.412	
5260	17.412	12.408	5260	17.426	12.412	
5300	17.43	12.413	5300	17.416	12.409	
5320	17.42	12.410	5320	17.413	12.409	
5500	17.402	12.406	5500	17.418	12.410	
5580	17.489	12.428	5580	17.489	12.428	
5700	17.421	12.411	5700	17.416	12.409	

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802.11n _HT40_Ch0

802.11n _HT40_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	35.759	15.534	5190	35.751	15.533
5230	35.745	15.532	5230	35.786	15.537
5270	35.797	15.538	5270	35.79	15.538
5310	35.766	15.535	5310	35.744	15.532
5510	35.762	15.534	5510	35.76	15.534
5550	35.898	15.551	5550	35.932	15.555
5670	35.787	15.537	5670	35.776	15.536

802.11ac _VHT80_Ch0

802.11ac _VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	74.93	18.747	5210	74.936	18.747
5290	74.98	18.749	5290	74.95	18.748
5530	75.048	18.753	5530	74.96	18.748
5610	74.882	18.744	5610	74.901	18.745

8.5.4 6dB Bandwidth (5725 MHz~ 5850 MHz) measure with sample detector for ISED

802.11a_Ch0

802.11a_Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.94	12.025	5745	16.12	12.074
5785	16.08	12.063	5785	16.02	12.047
5825	16.13	12.076	5825	15.88	12.009

802.11n_HT20_Ch0

802.11n_HT20_Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.94	12.289	5745	17.07	12.322
5785	17.07	12.322	5785	17	12.304
5825	17.03	12.312	5825	17.13	12.338

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802.11n _HT40_Ch0

802.11n _HT40_Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.72	15.529	5755	35.68	15.524
5795	35.84	15.544	5795	35.93	15.555

802.11ac _VHT80_Ch0

802.11ac _VHT80_Ch1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	74.95	18.748	5775	75.57	18.783

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8.5.5 99% BW Verification for DFS Function

802.11a_Ch0			802.11a_Ch1			
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	
5240	5248.14	< 5250	5240	5248.19	< 5250	
5745	5736.81	> 5725	5745	5736.82	> 5725	
802.11n_HT20_Ch0			802.11n_HT20_Ch1			
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	
5240	5248.68	< 5250	5240	5248.68	< 5250	
5745	5736.27	> 5725	5745	5736.28	> 5725	
802.11n _HT40_Ch0 802.11n _HT40_Ch1						
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)	
5230	5247.95	< 5250	5230	5247.94	< 5250	
5755	5737.09	> 5725	5755	5737.10	> 5725	
802.11a	C_VHT80_Ch	0	802.11a	C_VHT80_Ch	1	

Please see next page for test plots.

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Measured

Freq.

(MHz)

5247.47

5737.43

Limit

(MHz)

< 5250

> 5725

Freq.

(MHz)

5210

5775

Freq.

(MHz)

5210

5775

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台灣檢驗科技股份有限公司

Measured

Freq.

(MHz)

5247.45

5737.40

Limit

(MHz)

< 5250

> 5725



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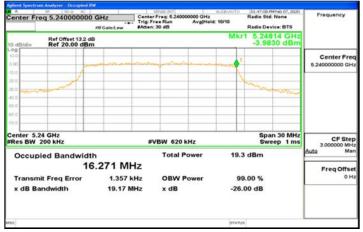
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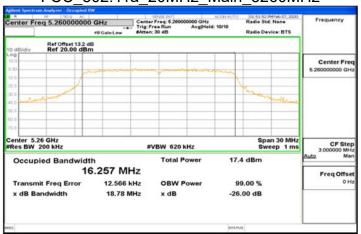
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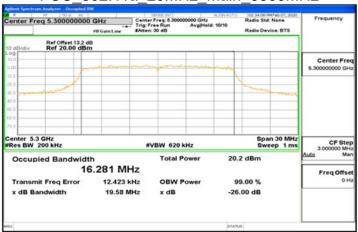
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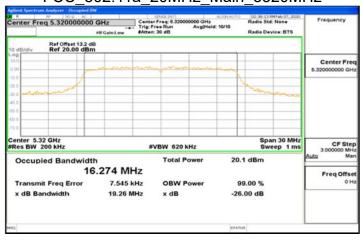
FCC 802.11a 20MHz Main 5260MHz



FCC 802.11a 20MHz Main 5300MHz



FCC 802.11a 20MHz Main 5320MHz



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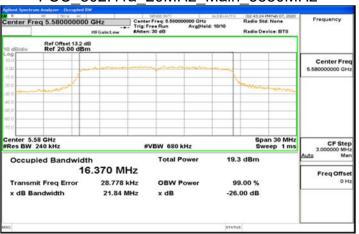


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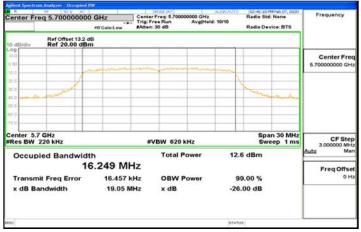
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FCC 802.11a 20MHz Main 5580MHz



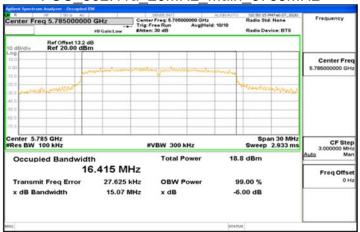
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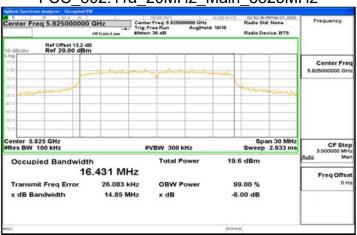
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FCC 802.11a 20MHz Main 5785MHz



FCC 802.11a 20MHz Main 5825MHz



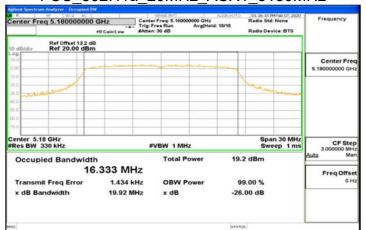
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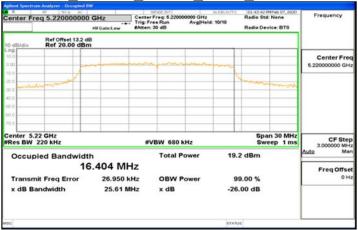


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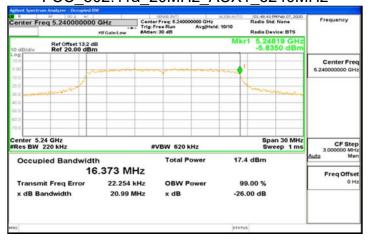
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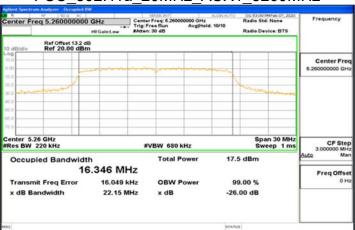
FCC 802.11a 20MHz AUX1 5220MHz



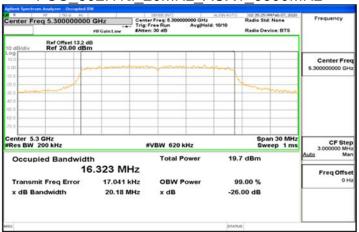
FCC_802.11a_20MHz_AUX1_5240MHz



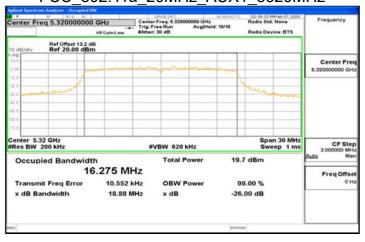
FCC 802.11a 20MHz AUX1 5260MHz



FCC 802.11a 20MHz AUX1 5300MHz



FCC 802.11a 20MHz AUX1 5320MHz



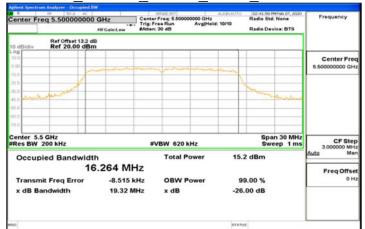
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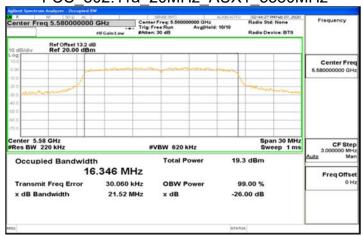


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FCC 802.11a 20MHz AUX1 5500MHz



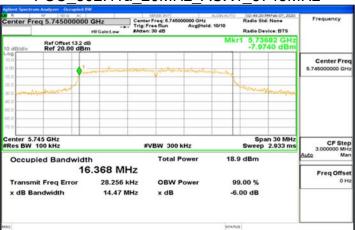
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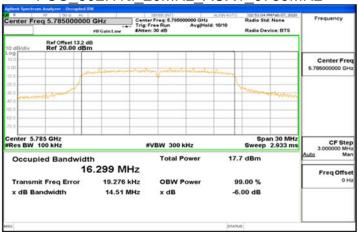
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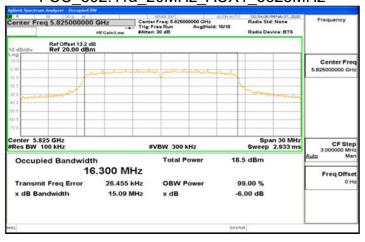
FCC 802.11a 20MHz AUX1 5745MHz



FCC 802.11a 20MHz AUX1 5785MHz



FCC 802.11a 20MHz AUX1 5825MHz



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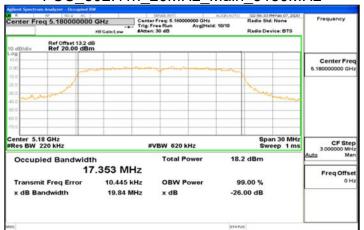
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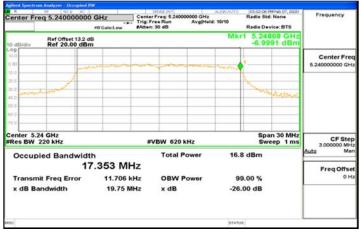
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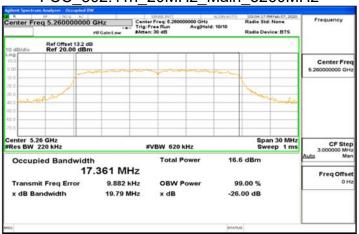
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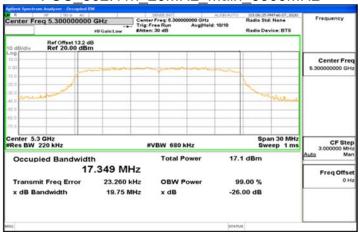
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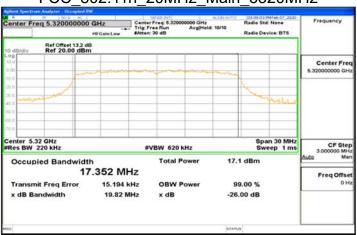
FCC 802.11n 20MHz Main 5260MHz



FCC 802.11n 20MHz Main 5300MHz



FCC 802.11n 20MHz Main 5320MHz



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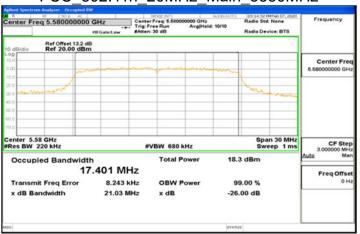


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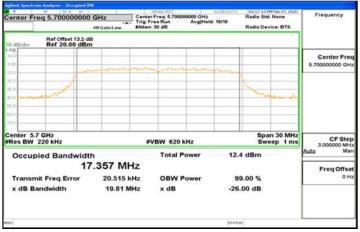
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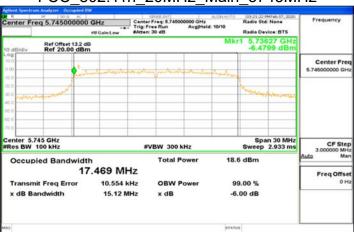
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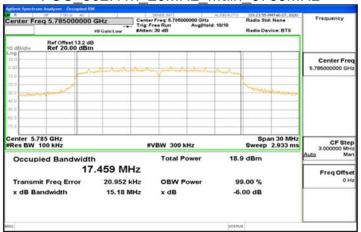
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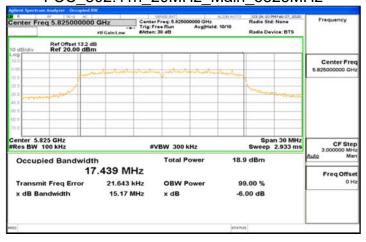
FCC 802.11n 20MHz Main 5745MHz



FCC 802.11n 20MHz Main 5785MHz



FCC 802.11n 20MHz Main 5825MHz



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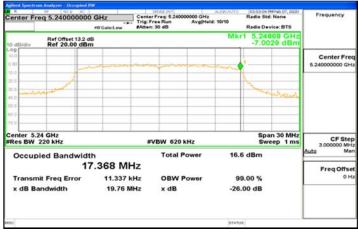
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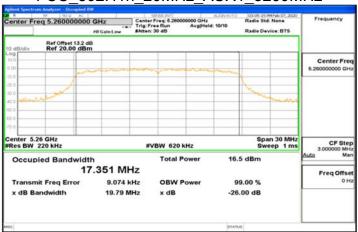
FCC 802.11n 20MHz AUX1 5220MHz



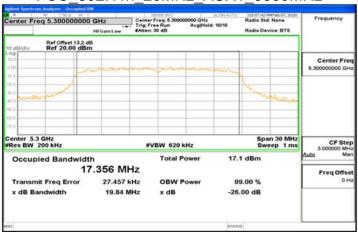
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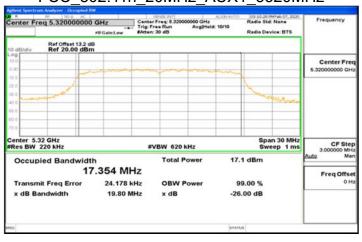
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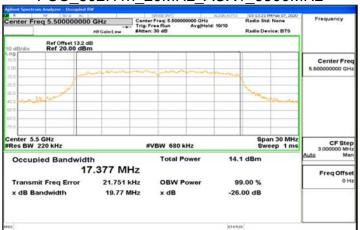
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FCC 802.11n 20MHz AUX1 5500MHz



FCC 802.11n 20MHz AUX1 5580MHz



FCC 802.11n 20MHz AUX1 5700MHz



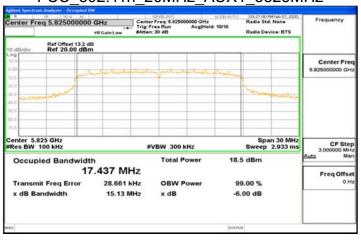
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FCC 802.11n 20MHz AUX1 5785MHz



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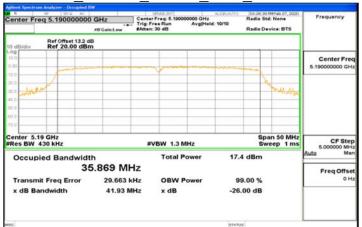
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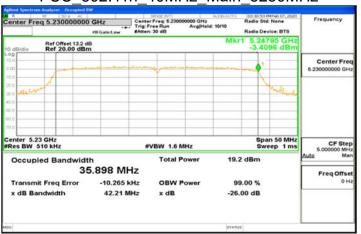


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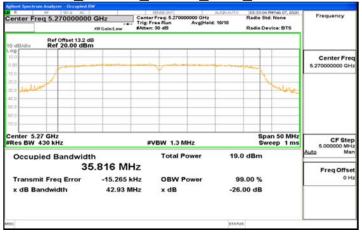
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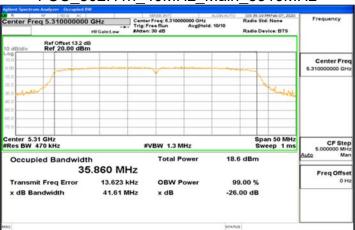
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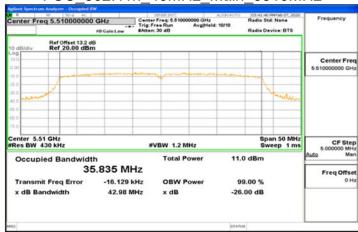
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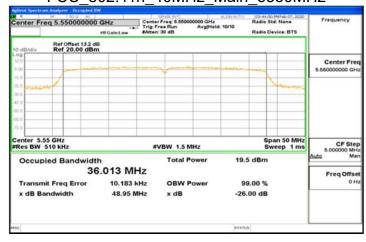
FCC 802.11n 40MHz Main 5310MHz



FCC 802.11n 40MHz Main 5510MHz



FCC 802.11n 40MHz Main 5550MHz



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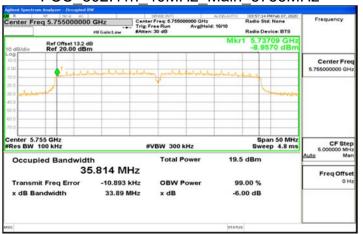


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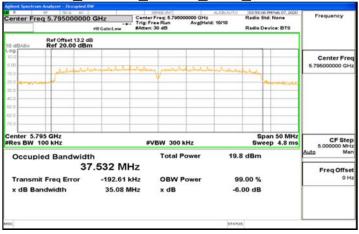
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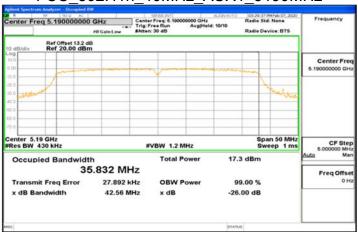
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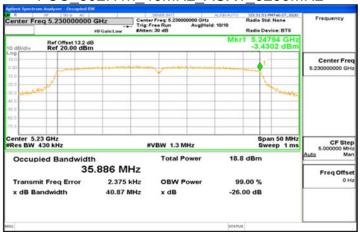
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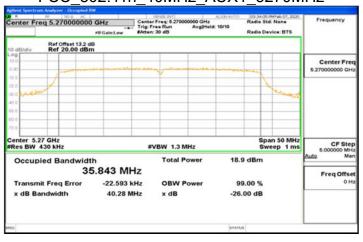
FCC 802.11n 40MHz AUX1 5190MHz



FCC 802.11n 40MHz AUX1 5230MHz



FCC 802.11n 40MHz AUX1 5270MHz



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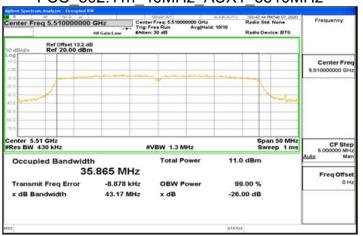


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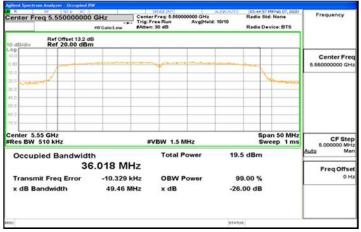
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FCC 802.11n 40MHz AUX1 5510MHz



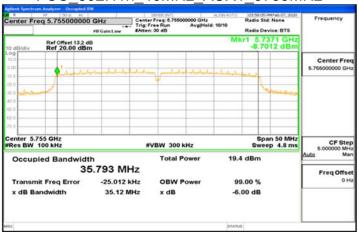
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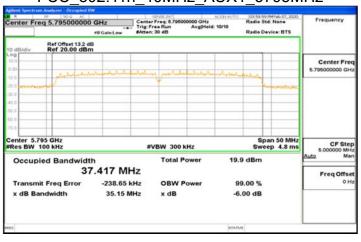
FCC 802.11n 40MHz AUX1 5670MHz



FCC 802.11n 40MHz AUX1 5755MHz



FCC 802.11n 40MHz AUX1 5795MHz



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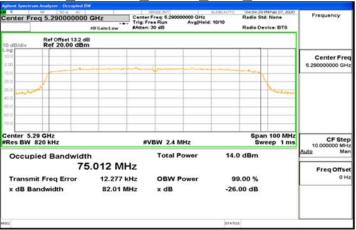


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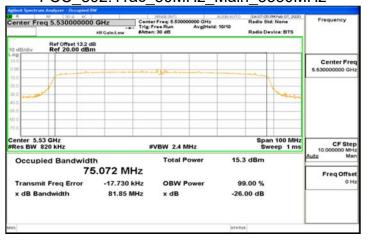
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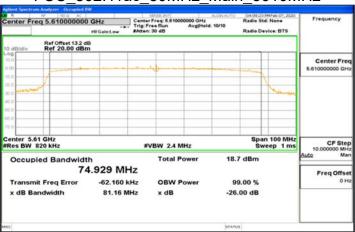
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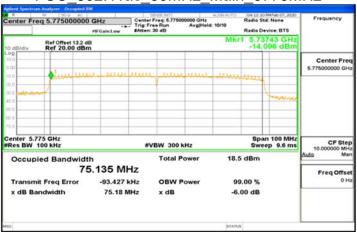
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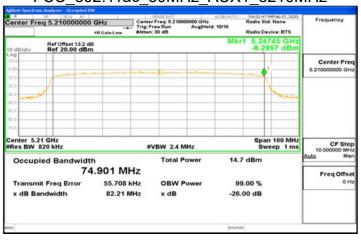
FCC 802.11ac 80MHz Main 5610MHz



FCC 802.11ac 80MHz Main 5775MHz



FCC 802.11ac 80MHz AUX1 5210MHz



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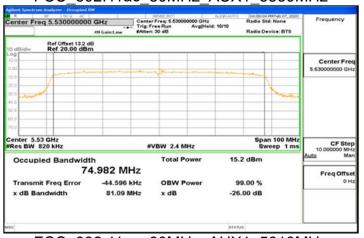


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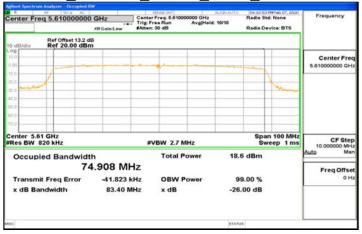
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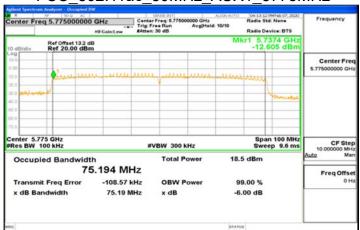
FCC 802.11ac 80MHz AUX1 5530MHz



FCC 802.11ac 80MHz AUX1 5610MHz



FCC 802.11ac 80MHz AUX1 5775MHz



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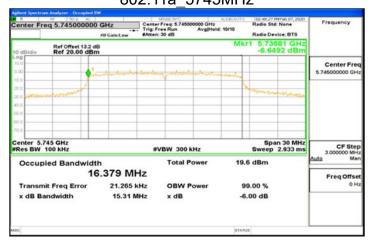


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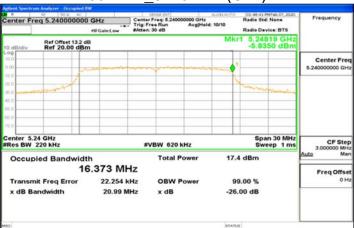
802.11a 5240MHz (Ch0)



802.11a 5745MHz



802.11a 5240MHz (Ch1)



802.11a 5745MHz



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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

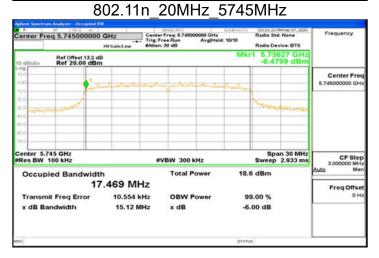
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802.11n 20MHz 5240MHz (Ch0)

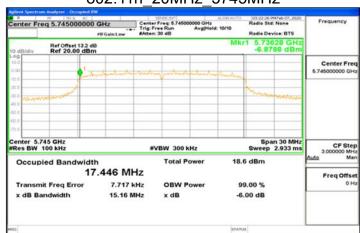




802.11n 20MHz 5240MHz (Ch1)



802.11n 20MHz 5745MHz



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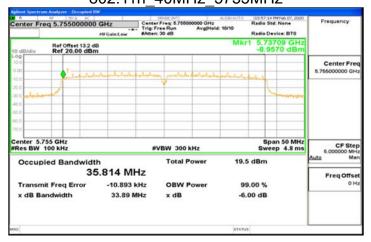


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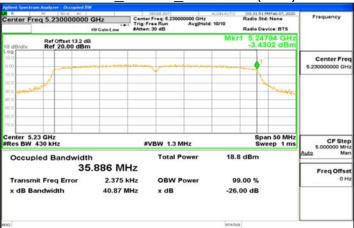
802.11n 40MHz 5230MHz (Ch0)



802.11n 40MHz 5755MHz



802.11n 40MHz 5230MHz (Ch1)



802.11n 40MHz 5755MHz



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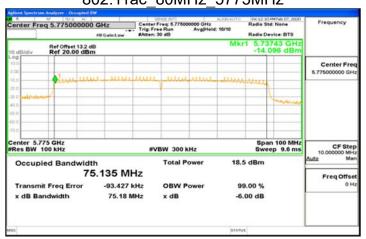


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802.11ac 80MHz 5210MHz (Ch0)



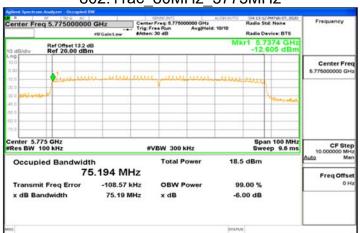
802.11ac 80MHz 5775MHz



802.11ac 80MHz 5210MHz (Ch1)



802.11ac 80MHz 5775MHz



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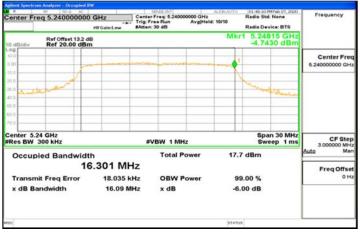
For 99%, IC 802.11a 20MHz Main 5180MHz



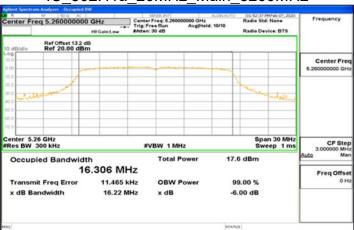
IC 802.11a 20MHz Main 5220MHz



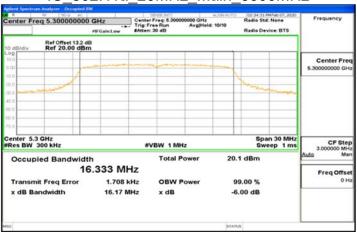
IC 802.11a 20MHz Main 5240MHz



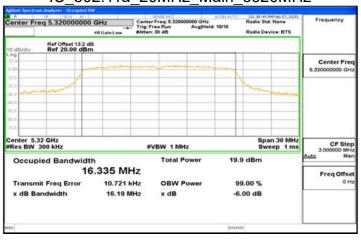
IC 802.11a 20MHz Main 5260MHz



IC 802.11a 20MHz Main 5300MHz



IC 802.11a 20MHz Main 5320MHz



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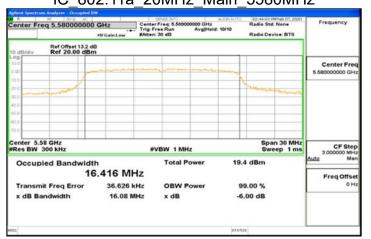


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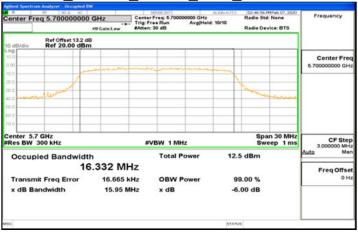
IC 802.11a 20MHz Main 5500MHz



IC 802.11a 20MHz Main 5580MHz



IC 802.11a 20MHz Main 5700MHz



IC 802.11a 20MHz Main 5745MHz



IC 802.11a 20MHz Main 5785MHz



IC 802.11a 20MHz Main 5825MHz



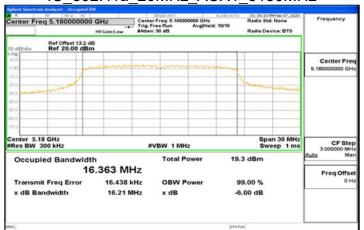
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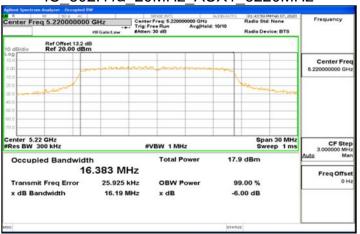


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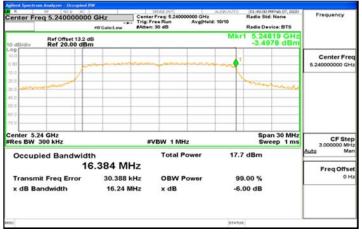
IC 802.11a 20MHz AUX1 5180MHz



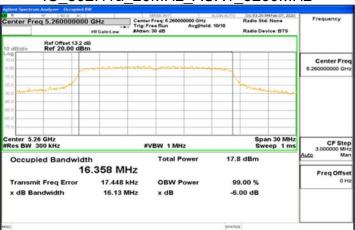
IC 802.11a 20MHz AUX1 5220MHz



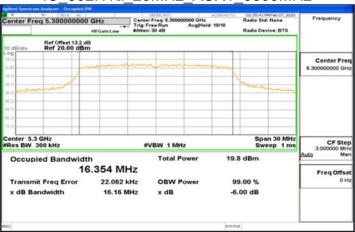
IC 802.11a 20MHz AUX1 5240MHz



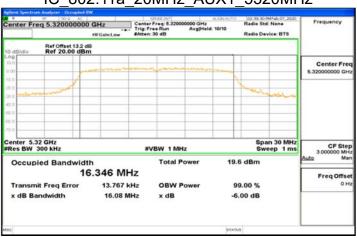
IC 802.11a 20MHz AUX1 5260MHz



IC 802.11a 20MHz AUX1 5300MHz



IC 802.11a 20MHz AUX1 5320MHz



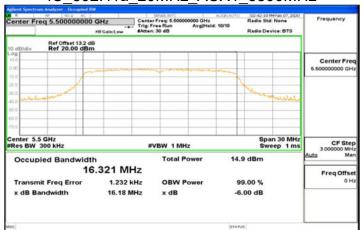
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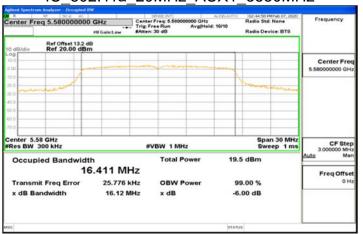


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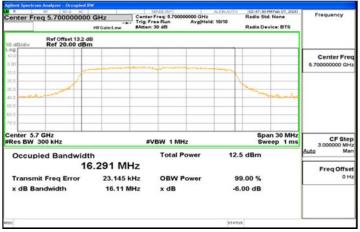
IC 802.11a 20MHz AUX1 5500MHz



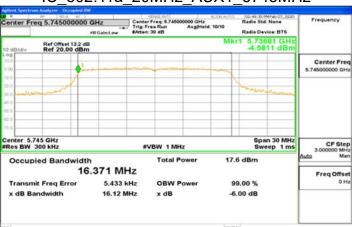
IC 802.11a 20MHz AUX1 5580MHz



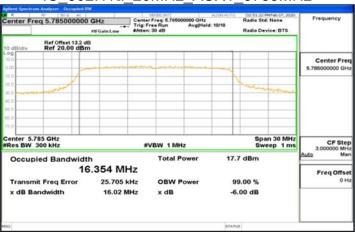
IC 802.11a 20MHz AUX1 5700MHz



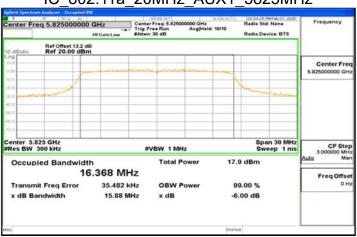
IC 802.11a 20MHz AUX1 5745MHz



IC 802.11a 20MHz AUX1 5785MHz



IC 802.11a 20MHz AUX1 5825MHz



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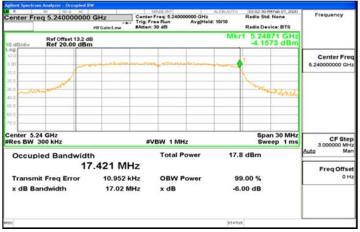
IC 802.11n 20MHz Main 5180MHz



IC 802.11n 20MHz Main 5220MHz



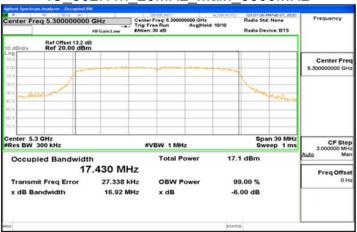
IC 802.11n 20MHz Main 5240MHz



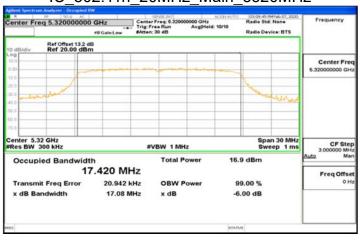
IC 802.11n 20MHz Main 5260MHz



IC 802.11n 20MHz Main 5300MHz



IC 802.11n 20MHz Main 5320MHz



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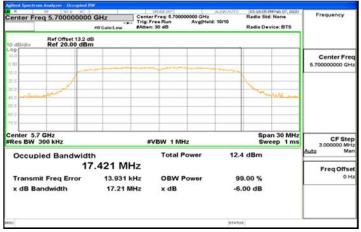
IC 802.11n 20MHz Main 5500MHz



IC 802.11n 20MHz Main 5580MHz



IC 802.11n 20MHz Main 5700MHz



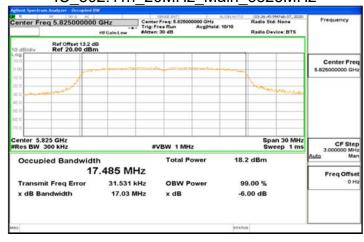
IC 802.11n 20MHz Main 5745MHz



IC 802.11n 20MHz Main 5785MHz



IC 802.11n 20MHz Main 5825MHz



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