

# Test of: Test of: Mimosa Networks A5c, A5-14, A5-18

To: FCC CFR 47 Part 15 Subpart E 15.407 & IC RSS 247 (DFS Bands)

Test Report Serial No.: MIMO09-U8\_Radiated Addendum Rev A

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Master Document Number	Addendum Reports
	MIMO09 – U8 Conducted
	MIMO09 – U8 _Radiated
MIMO09 – U8 _Master	MIMO09 – U8 _DFS
	MIMO09 – U2 (FCC Part15B Emissions) A5C
	MIMO09 – U3 (FCC Part15B Emissions) A5-14, A5-18



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# 1. MEASUREMENT AND PRESENTATION OF TEST DATA

The measurement and graphical data presented in this test report was generated automatically using state-of-the-art technology creating an easy to read report structure. Numerical measurement data is separated from supporting graphical data (plots) through hyperlinks. Numerical measurement data can be reviewed without scrolling through numerous graphical pages to arrive at the next data matrix.

Plots have been relegated into the Appendix 'Graphical Data'.

Test and report automation was performed by <u>MiTest</u>. <u>MiTest</u> is an automated test system developed by MiCOM Labs. <u>MiTest</u> is the first cloud based modular test system enabling end-to-end automation of regulatory compliance testing for conducted RF testing.



The MiCOM Labs "<u>MiTest</u>" Automated Test System" (Patent Pending)



## 2. TEST RESULTS

## 2.1. Radiated

Radiated Test Conditions for Radiated Spurious and Band-Edge Emissions									
Standard:	FCC CFR 47:15.407	Ambient Temp. (°C):	20.0 - 24.5						
Test Heading:	Radiated Spurious and Band- Edge Emissions	Rel. Humidity (%):	32 - 45						
Standard Section(s):	15.407 (b), 15.205, 15.209	Pressure (mBars):	999 - 1001						
Reference Document(s):	See Normative References								
<ul> <li>Test Procedure for Radiated Sp Radiated emissions for restricted in both horizontal and vertical pol 360° with a spectrum analyzer in used to remove the fundamental Measurements on any restricted employing peak and average deter Test configuration and setup for U 15.407 (b) Undesirable emi the frequency bands of ope (1) For transmitters operatin e.i.r.p. of -27 dBm/MHz.</li> <li>(2) For transmitters operatin e.i.r.p. of -27 dBm/MHz.</li> <li>(3) For transmitters operatin an e.i.r.p. of -27 dBm/MHz.</li> <li>(4) For transmitters operatin MHz above or below the baa below the band edge, emission total power over 1 MHz.</li> <li>(6) Unwanted emissions be devices using an AC power</li> <li>(7) The provisions of §15.20 (8) When measuring the emission</li> </ul>	burious and Band-Edge Emission bands above 1 GHz are measure arities. The emissions are record peak hold mode. Depending on the frequency. The highest emissions band frequency or frequencies abore ectors. All measurements were per- ssion limits. Except as shown in paration shall be attenuated in accord ing in the 5.15-5.25 GHz band: All en- ing in the 5.25-5.35 GHz band: All en- ing in the 5.725-5.85 GHz band: All ind edge shall not exceed an e.i.r.p. or ments shall be performed using a in d near the band edge, when nece low 1 GHz must comply with the g line are required to comply also w 05 apply to intentional radiators op	d in the anechoic chamber at a 3-red and maximized as a function or refrequency band spanned a noto relative to the limit are listed for er over 1 GHz are based on the use or erformed using a resolution bandwer the Radiated Test Set-up specific aragraph (b)(7) of this section, the dance with the following limits: emissions outside of the 5.15-5.35 emissions outside of the 5.15-5.35 emissions outside of the 5.15-5.35 emissions outside of the 5.47-5.7 emissions within the frequency ra or $-17$ dBm/MHz; for frequencie f $-27$ dBm/MHz. hinimum resolution bandwidth of 1 ssary, provided the measured enerel eneral field strength limits set forth in erating under this section.	f azimuth by rotation through h filter and waveguide filter was each frequency spanned. If measurement instrumentation width of 1 MHz. ied in this document. maximum emissions outside of GHz band shall not exceed an GHz band shall not exceed an 25 GHz band shall not exceed an 25 GHz band shall not exceed an mage from the band edge to 10 is 10 MHz or greater above or MHz. A lower resolution rgy is integrated to show the in §15.209. Further, any U-NII §15.207.						
Limits for Restricted Bands (15.205, 15.209) Peak emission: 74 dBuV/m									
Average emission: 54 dBuV/m									
Field Strength Calculation The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. All factors are included in the reported data.									
		•							

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FS = R + AF + CORR - FO

where:

RS = Field Strength R = Measured Spectrum analyzer Input Amplitude AF = Antenna Factor CORR = Correction Factor = CL – AG + NFL CL = Cable Loss AG = Amplifier Gain FO = Distance Falloff Factor NFL = Notch Filter Loss or Waveguide Loss

Example:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength (dBµV/m);

 $E = \frac{1000000 \times \sqrt{30P}}{3} \mu V/m$ where P is the EIRP in Watts

Therefore: -27 dBm/MHz equates to 68.23 dBuV/m

Conversion between dBmV/m (or dBmV) and mV/m (or mV) are as follows: Level (dBmV/m) = 20 \* Log (level (mV/m))

40 dBmV/m = 100 mV/m 48 dBmV/m = 250 mV/m

#### **Restricted Bands of Operation (15.205)**

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

	Frequency Band								
MHz	MHz	MHz	GHz						
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15						
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46						
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75						
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5						
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2						
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5						
6.215-6.218	74.8-75.2 1660-1710		10.6-12.7						
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4						
6.31175-6.31225	123-138	2200-2300	14.47-14.5						
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2						
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4						
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12						
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0						
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8						

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	r									
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5							
12.57675-12.57725	322-335.4	3600-4400	Above 38.6							
13.36-13.41										
(b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.										
	aphs (d) and (e) of this section, reg ction apply to emissions from any i		specified elsewhere in this							
(d) The following devices are exe	empt from the requirements of this	section:								
through the bands listed in bands listed in paragraph (a	isturbance sensors operating betw paragraph (a) of this section, the s a) of this section, and the fundame he time the device is actively trans	weep is never stopped with the function of the bandwith the function is outside of the bandwith	ndamental emission within the ds listed in paragraph (a) of this							
(2) Transmitters used to de	tect buried electronic markers at 1	01.4 kHz which are employed by t	elephone companies.							
(3) Cable locating equipme	nt operated pursuant to §15.213.									
(4) Any equipment operated of this part.	d under the provisions of §15.253,	15.255, and 15.256 in the frequen	cy band 75-85 GHz, or §15.257							
	evices operating under the provisio oct to compliance within the other re		subject to the restricted band							
(6) Transmitters operating u	under the provisions of subparts D	or F of this part.								
(7) Devices operated pursu	ant to §15.225 are exempt from co	omplying with this section for the 1	3.36-13.41 MHz band only.							
	(8) Devices operated in the 24.075-24.175 GHz band under §15.245 are exempt from complying with the requirements of this section for the 48.15-48.35 GHz and 72.225-72.525 GHz bands only, and shall not exceed the limits specified in §15.245(b).									
	24.0-24.25 GHz band under §15.2 Hz and 72.0-72.75 GHz bands only									
(e) Harmonic emissions appearing in the restricted bands above 17.7 GHz from field disturbance sensors operating under the provisions of §15.245 shall not exceed the limits specified in §15.245(b).										



### 2.1.1. Restricted Band Emissions

### 2.1.1.1. A-18

#### Equipment Configuration for Radiated Spurious - Restricted Band Emissions

Antenna:	A-18	Variant:	802.11n ac20
Antenna Gain (dBi):	8.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5260.00	Data Rate:	6.50 MBit/s
Power Setting:	0x11	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5261.53	73.79	3.66	-11.28	66.17	Fundamental	Vertical	200	1			
#2	7310.64	57.18	4.24	-7.29	54.13	Max Peak	Vertical	113	329	74.0	-19.9	Pass
#3	7310.64	34.94	4.24	-7.29	31.89	Max Avg	Vertical	113	329	54.0	-22.1	Pass
Test Not	Test Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.											



Equipment Configuration for Radiated Spurious - Restricted Band Emissions									
Antenna:	A-18	Variant:	802.11n ac20						
Antenna Gain (dBi):	8.00	Modulation:	OFDM						
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99						
Channel Frequency (MHz):	5300.00	Data Rate:	6.50 MBit/s						
Power Setting:	0x11	Tested By:	JMH						

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5301.45	72.13	3.81	-11.09	64.85	Fundamental	Vertical	200	1			
#2	7309.90	57.95	4.23	-7.29	54.89	Max Peak	Vertical	136	317	74.0	-19.1	Pass
#3	7309.90	35.16	4.23	-7.29	32.10	Max Avg	Vertical	136	317	54.0	-21.9	Pass
Test Not	Test Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.											



Equipment Configuration for Radiated Spurious - Restricted Band Emissions									
Antenna:	A-18	Variant:	802.11n ac20						
Antenna Gain (dBi):	8.00	Modulation:	OFDM						
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99						
Channel Frequency (MHz):	5335.00	Data Rate:	6.50 MBit/s						
Power Setting:	0x11	Tested By:	JMH						

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5321.48	67.04	3.75	-11.06	59.73	Fundamental	Vertical	101	1			
#2	7311.99	57.31	4.24	-7.29	54.26	Max Peak	Vertical	138	307	74.0	-19.7	Pass
#3	7311.99	35.03	4.24	-7.29	31.98	Max Avg	Vertical	138	307	54.0	-22.0	Pass
Test Not	Test Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.											



Equipment Configuration for Radiated Spurious - Restricted Band Emissions										
Antonna:	Antenna: A-18 Variant: 802.11n ac20									
Antenna Gain (dBi):		Modulation:								
Beam Forming Gain (Y):		Duty Cycle (%):								
Channel Frequency (MHz):			6.50 MBit/s							
Power Setting:	0x09	Tested By:	JMH							

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5507.53	63.57	3.75	-11.19	56.13	Fundamental	Vertical	189	284			
#2	7310.38	57.82	4.23	-7.29	54.76	Max Peak	Vertical	167	322	74.0	-19.2	Pass
#3	7310.38	35.12	4.23	-7.29	32.06	Max Avg	Vertical	167	322	54.0	-21.9	Pass
Test Not	Test Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.											



Equipme	ent Configuration for Radiated S	purious - Restricted Band Emissions	6
Antenna:	A-18	Variant:	802.11n ac20
Antenna Gain (dBi):	8.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5580.00	Data Rate:	6.50 MBit/s
Power Setting:	0x09	Tested By:	JMH

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5581.64	66.78	3.80	-11.20	59.38	Fundamental	Vertical	200	1			
#2	7310.88	57.18	4.24	-7.29	54.13	Max Peak	Vertical	137	325	74.0	-19.9	Pass
#3	7310.88	34.82	4.24	-7.29	31.77	Max Avg	Vertical	137	325	54.0	-22.2	Pass
Test Not	Test Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.											



Equipme	ent Configuration for Radiated S	purious - Restricted Band Emissions	5
Antenna:	A 10	Variant	802.11n ac20
Antenna Gain (dBi):		Modulation:	
Beam Forming Gain (Y):		Duty Cycle (%):	
Channel Frequency (MHz):			6.50 MBit/s
Power Setting:	0x09	Tested By:	JMH

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5721.40	59.14	3.80	-10.73	52.21	Fundamental	Vertical	200	1			
#2	7311.99	56.80	4.24	-7.29	53.75	Max Peak	Vertical	131	311	74.0	-20.3	Pass
#3	7311.99	35.03	4.24	-7.29	31.98	Max Avg	Vertical	131	311	54.0	-22.0	Pass
Test Not	Test Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.											



## 2.1.1.2. KP Performance KPPA-5GHZHV4P65-17 X4

Equip	ment Configuration for Radiated Spurious -	Restricted Band Emissions	
Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac20
Antenna Gain (dBi):	17.50	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5260.00	Data Rate:	6.50 MBit/s
Power Setting:	0x03	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5262.97	71.30	3.67	-11.28	63.69	Fundamental	Horizontal	151	1			
	Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload											



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac20
Antenna Gain (dBi):	17.50	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5300.00	Data Rate:	6.50 MBit/s
Power Setting:	0x03	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5293.67	71.69	3.78	-11.12	64.35	Fundamental	Horizontal	151	1			
	Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload											



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac20
Antenna Gain (dBi):	17.50	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5335.00	Data Rate:	6.50 MBit/s
Power Setting:	0x03	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5324.21	65.33	3.74	-11.06	58.01	Fundamental	Horizontal	101	0			
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload												



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac20
Antenna Gain (dBi):	18.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5485.00	Data Rate:	6.50 MBit/s
Power Setting:	0x01	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5502.40	61.92	3.75	-11.17	54.50	Fundamental	Horizontal	151	1			
#2	6280.32	55.04	3.92	-8.48	50.48	Peak (NRB)	Horizontal	151	1			Pass
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload												



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac20
Antenna Gain (dBi):	18.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5580.00	Data Rate:	6.50 MBit/s
Power Setting:	0x01	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5574.39	67.07	3.81	-11.21	59.67	Fundamental	Horizontal	151	0			
#2	6228.53	55.80	3.91	-8.72	50.99	Peak (NRB)	Horizontal	151	0			Pass
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload										5G		



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac20
Antenna Gain (dBi):	18.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5720.00	Data Rate:	6.50 MBit/s
Power Setting:	0x01	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5711.99	55.13	3.83	-10.77	48.19	Fundamental	Vertical	151	1			
#2	6250.63	51.63	3.93	-8.56	47.00	Peak (NRB)	Horizontal	151	1			Pass
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload										5G		



### 2.1.2. Restricted Band-Edge Emissions

## 2.1.2.3. A-18

RESULTS SUMMARY FOR RADIATED BAND-EDGE EMISSIONS

#### 5250 - 5350 MHz

A-	18	Band-Edge Freq	Limit 74.0dBµV/m	Limit 54.0dBµV/m	Power Setting	
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	Fower Setting	
802.11ac-80	5290.00	5350.00	<u>62.58</u>	<u>48.22</u>	0x10	
802.11n ac20	5335.00	5350.00	61.56	48.40	0x11	
802.11n ac40 5330.00		5350.00	62.20	48.22	0x09	

#### 5470 - 5725 MHz

A-	18	Band-Edge Freq	Limit 74.0dBµV/m	Limit 54.0dBµV/m	Power Setting	
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	Fower Setting	
802.11ac-80	5530.00	5470.00	66.54	49.15	0x09	
802.11n ac20	5485.00	5470.00	61.07	48.66	0x09	
802.11n HT-40 5510.00		5470.00	64.61	51.53	0x13	

A	18	Band Edge Freq	Limit 68.23	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	Fower Setting
802.11ac-80	5530.00	5470.00	49.93	0x09
802.11n ac20	5485.00	5470.00	48.66	0x09
802.11n HT-40	5510.00	5470.00	56.79	0x13

Click on the links to view the data.



Antenna:	A-18	Variant:	802.11ac-80
Antenna Gain (dBi):	8.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5290.00	Data Rate:	29.30 MBit/s
Power Setting:	0x10	Tested By:	JMH

## Test Measurement Results

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#2	5352.26	10.00	3.71	34.51	48.22	Max Avg	Vertical	200	59	54.0	-5.8	Pass
#3	5365.73	24.42	3.69	34.47	62.58	Max Peak	Vertical	200	59	74.0	-11.4	Pass
#1	5350.00					Restricted- Band						
Test Not	est Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.											



Antenna:	A-18	Variant:	802.11ac-80
Antenna Gain (dBi):	8.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5210.00	Data Rate:	29.30 MBit/s
Power Setting:	0x14	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5147.14	14.96	3.68	34.11	52.75	Max Avg	Vertical	200	71	54.0	-1.3	Pass
#2	5147.55	29.26	3.68	34.11	67.05	Max Peak	Vertical	200	71	74.0	-7.0	Pass
#3	5150.00					Restricted- Band						
	Test Notes: EUT A5-18 SN: 2119591877 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.											
Power R	eduction to m	leet band	edge limi	ts								



Antenna:	A-18	Variant:	802.11n ac20
Antenna Gain (dBi):	8.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5180.00	Data Rate:	6.50 MBit/s
Power Setting:	0x16	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5143.89	26.43	3.70	34.12	64.25	Max Peak	Vertical	200	71	74.0	-9.8	Pass
#2	5150.00	13.01	3.67	34.11	50.79	Max Avg	Vertical	200	71	54.0	-3.2	Pass
#3	5150.00					Restricted- Band						
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G												
notch filt	notch filter added in front of amp to prevent overload											



Antenna:	A-18	Variant:	802.11n ac40
Antenna Gain (dBi):	8.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5190.00	Data Rate:	13.50 MBit/s
Power Setting:	0x14	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5147.24	29.08	3.68	34.11	66.87	Max Peak	Vertical	200	71	74.0	-7.1	Pass
#2	5148.05	16.03	3.68	34.11	53.82	Max Avg	Vertical	200	71	54.0	-0.2	Pass
#3	5150.00					Restricted- Band						
Test Not	Test Notes: EUT A5-18 SN: 2119591877 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.											
Power re	eduction to me	eet band e	edge limit.									



Antenna:	A-18	Variant:	802.11ac-80
Antenna Gain (dBi):	8.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5530.00	Data Rate:	29.30 MBit/s
Power Setting:	0x09	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5456.99	28.44	3.80	34.30	66.54	Max Peak	Vertical	200	44	74.0	-7.5	Pass
#2	5457.60	11.05	3.80	34.30	49.15	Max Avg	Vertical	200	44	54.0	-4.9	Pass
#4	5470.00	11.85	3.76	34.32	49.93	Max Avg	Vertical	200	44	68.2	-18.3	Pass
#3	5460.00					Restricted- Band						
#5	5470.00					Band-Edge						
Test Not	est Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.											



Antenna:	A-18	Variant:	802.11n ac20
Antenna Gain (dBi):	8.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5485.00	Data Rate:	6.50 MBit/s
Power Setting:	0x09	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5458.80	22.97	3.79	34.31	61.07	Max Peak	Vertical	200	44	74.0	-12.9	Pass
#2	5460.00	10.56	3.79	34.31	48.66	Max Avg	Vertical	200	44	54.0	-5.3	Pass
#4	5470.00	10.58	3.76	34.32	48.66	Max Avg	Vertical	200	44	68.2	-19.5	Pass
#3	5460.00					Restricted- Band						
#5	5470.00	-				Band-Edge						
Test Not	est Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.											



Antenna:	A-18	Variant:	802.11n HT-40
Antenna Gain (dBi):	8.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5510.00	Data Rate:	13.50 MBit/s
Power Setting:	0x13	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5458.50	13.43	3.80	34.30	51.53	Max Avg	Vertical	200	44	54.0	-3.5	Pass
#2	5459.70	26.51	3.79	34.31	64.61	Max Peak	Vertical	200	44	74.0	-9.4	Pass
#4	5470.00	18.71	3.76	34.32	56.79	Max Avg	Vertical	200	44	68.2	-11.4	Pass
#3	5460.00					Restricted- Band						
#5	5470.00					Band-Edge						
Test Not	est Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.											



Antenna:	A-18	Variant:	802.11n ac20
Antenna Gain (dBi):	8.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5335.00	Data Rate:	6.50 MBit/s
Power Setting:	0x11	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#2	5359.84	10.21	3.70	34.49	48.40	Max Avg	Vertical	200	59	54.0	-5.6	Pass
#3	5366.01	23.40	3.69	34.47	61.56	Max Peak	Vertical	200	59	74.0	-12.4	Pass
#1	5350.00					Restricted- Band						
Test Not	Test Notes: EUT A5-18 SN: 2119591877 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.											



Antenna:	A-18	Variant:	802.11n ac40
Antenna Gain (dBi):	8.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5330.00	Data Rate:	13.50 MBit/s
Power Setting:	0x09	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#2	5351.68	23.98	3.71	34.51	62.20	Max Peak	Vertical	200	59	74.0	-11.8	Pass
#3	5351.96	10.00	3.71	34.51	48.22	Max Avg	Vertical	200	59	54.0	-5.8	Pass
#1	#1 5350.00 Restricted- Band											
Test Not	tes: EUT A5-1	8 SN: 21′	19591877	on 150cr	n table, po	wered by Mimos	a POE P	S 502-000	02.			



## 2.1.2.4. KP Performance KPPA-5GHZHV4P65-17 X4

RESULTS SUMMARY FOR RADIATED BAND-EDGE EMISSIONS

#### 5250 - 5350 MHz

	PA-5GHZHV4P65-17 4	Band-Edge Freq	Limit 74.0dBµV/m	Limit 54.0dBµV/m	Power Setting	
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	dBµV/m	Fower Setting	
802.11ac-80	5290.00	5350.00	62.55	48.75	0x02	
802.11n ac20	5335.00	5350.00	63.95	50.91	0x03	
802.11n ac40	5330.00	5350.00	62.22	50.14	0x01	

### 5470 - 5725 MHz

KP Performance KP X	PA-5GHZHV4P65-17 4	Band-Edge Freq	Limit 74.0dBµV/m	Limit 54.0dBµV/m	Power Setting	
Operational Mode	Operating Frequency (MHz)	) MHz dBµV/m		dBµV/m	Fower Setting	
802.11ac-80	5530.00	5470.00	66.00	52.53	0x01	
802.11n ac20	5485.00	5470.00	65.30	52.65	0x01	
802.11n ac40	5510.00	5470.00	66.56	53.46	0x04	

KP Performance KI	PPA-5GHZHV4P65- X4	Band Edge Freq	Limit 68.23	Power Setting
Operational Mode	Operating Frequency (MHz)	MHz	dBµV/m	Fower Setting
802.11ac-80	5530.00	5470.00	53.12	0x09
802.11n ac20	5485.00	5470.00	53.24	0x09
802.11n HT-40	5510.00	5470.00	56.41	0x13

Click on the links to view the data.



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11ac-80
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5210.00	Data Rate:	29.30 MBit/s
Power Setting:	0x07	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5147.01	31.83	3.68	34.11	69.62	Max Peak	Vertical	164	358	74.0	-4.4	Pass
#2	5147.67	15.06	3.68	34.11	52.85	Max Avg	Vertical	164	358	54.0	-1.2	Pass
#3	5150.00					Restricted- Band						
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.												
Power re	eduction to me	eet band e	edge limit						-			



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac20
Antenna Gain (dBi):	17.30	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5180.00	Data Rate:	6.50 MBit/s
Power Setting:	0x18	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5145.79	23.68	3.69	34.11	61.48	Max Peak	Vertical	164	358	74.0	-12.5	Pass
#2	5150.00	11.01	3.67	34.11	48.79	Max Avg	Vertical	164	358	54.0	-5.2	Pass
#3	#3 5150.00 Restricted- Band											
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.												
Correctio	on factor inclu	des .9 dB	addition	for conne	cting cable	S						



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac40
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5190.00	Data Rate:	13.50 MBit/s
Power Setting:	0x05	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5150.00	14.97	3.67	34.11	52.75	Max Avg	Vertical	164	358	54.0	-1.3	Pass
#2	5150.00	30.60	3.67	34.11	68.38	Max Peak	Vertical	164	358	74.0	-5.6	Pass
#3	5150.00					Restricted- Band						
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.												
Power re	eduction to me	eet band e	edge limit						-			



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11ac-80
Antenna Gain (dBi):	18.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5530.00	Data Rate:	29.30 MBit/s
Power Setting:	0x01	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5452.81	14.44	3.79	34.30	52.53	Max Avg	Horizontal	168	358	54.0	-1.5	Pass
#2	5455.21	27.91	3.79	34.30	66.00	Max Peak	Horizontal	168	358	74.0	-8.0	Pass
#4	5469.94	15.01	3.79	34.32	53.12	Max Avg	Horizontal	168	358	68.2	-15.1	Pass
#3	5460.00					Restricted- Band						
#5	5470.00					Band Edge						
Test No	est Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.											



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac20
Antenna Gain (dBi):	18.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5485.00	Data Rate:	6.50 MBit/s
Power Setting:	0x01	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5453.71	14.56	3.79	34.30	52.65	Max Avg	Horizontal	168	358	54.0	-1.4	Pass
#2	5454.01	27.21	3.79	34.30	65.30	Max Peak	Horizontal	168	358	74.0	-8.7	Pass
#4	5469.94	15.13	3.79	34.32	53.24	Max Avg	Horizontal	168	358	68.2	-15.0	Pass
#3	5460.00					Restricted- Band						
#5	5470.00					Band Edge						
Test No	est Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002											



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac40
Antenna Gain (dBi):	18.00	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5510.00	Data Rate:	13.50 MBit/s
Power Setting:	0x04	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5458.80	28.46	3.79	34.31	66.56	Max Peak	Horizontal	168	358	74.0	-7.4	Pass
#2	5460.00	15.36	3.79	34.31	53.46	Max Avg	Horizontal	168	358	54.0	-0.5	Pass
#4	5469.94	18.30	3.79	34.32	56.41	Max Avg	Horizontal	168	358	68.2	-11.8	Pass
#3	5460.00					Restricted- Band						
#5	5470.00					Band Edge						
	est Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. Power eduction to meet band edge limits.											



Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11ac-80
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5290.00	Data Rate:	29.30 MBit/s
Power Setting:	0x02	Tested By:	JMH

#### **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5350.00	10.54	3.70	34.51	48.75	Max Avg	Vertical	164	358	54.0	-5.3	Pass
#3	5367.76	24.39	3.69	34.47	62.55	Max Peak	Vertical	164	358	74.0	-11.5	Pass
#2	5350.00					Restricted- Band						
Test Not	Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.											



## Equipment Configuration for Restricted Upper Band-Edge Emissions

Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac20
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5335.00	Data Rate:	6.50 MBit/s
Power Setting:	0x03	Tested By:	JMH

## **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#2	5359.84	12.72	3.70	34.49	50.91	Max Avg	Vertical	164	358	54.0	-3.1	Pass
#3	5368.82	25.80	3.69	34.46	63.95	Max Peak	Vertical	164	358	74.0	-10.1	Pass
#1	5350.00					Restricted- Band						
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.											2.	



## Equipment Configuration for Restricted Upper Band-Edge Emissions

Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac40
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5330.00	Data Rate:	13.50 MBit/s
Power Setting:	0x01	Tested By:	JMH

## **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5350.00	11.93	3.70	34.51	50.14	Max Avg	Vertical	164	358	54.0	-3.9	Pass
#3	5358.72	24.02	3.71	34.49	62.22	Max Peak	Vertical	164	358	74.0	-11.8	Pass
#2	5350.00					Restricted- Band						
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.											2.	



## Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11ac-80
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5775.00	Data Rate:	29.30 MBit/s
Power Setting:	0x07	Tested By:	JMH

## **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5699.00	16.94	3.86	34.33	55.13	Max Avg	Horizontal	164	362	68.2	-13.1	Pass
#2	5719.91	17.87	3.80	34.35	56.02	Max Avg	Horizontal	164	362	78.2	-22.2	Pass
#3	5725.00					Band-Edge						
Test No	Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002											



## Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac20
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5745.00	Data Rate:	6.50 MBit/s
Power Setting:	0x08	Tested By:	JMH

## **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5715.00	17.62	3.81	34.34	55.77	Max Avg	Horizontal	164	362	68.2	-12.5	Pass
#2	5725.00	18.57	3.79	34.35	56.71	Max Avg	Horizontal	164	362	78.2	-21.5	Pass
#3	5725.00					Band-Edge						
Test Not	Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002											



## Equipment Configuration for 5725 MHz Radiated Band-Edge Emissions

Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac40
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5755.00	Data Rate:	13.50 MBit/s
Power Setting:	0x07	Tested By:	JMH

## **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5715.00	18.46	3.81	34.34	56.61	Max Avg	Horizontal	164	362	68.2	-11.6	Pass
#2	5719.67	20.13	3.80	34.35	58.28	Max Avg	Horizontal	164	362	78.2	-20.0	Pass
#3	5725.00					Band-Edge						
Test Not	Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002											



### Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11ac-80
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5775.00	Data Rate:	29.30 MBit/s
Power Setting:	0x07	Tested By:	JMH

## **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#2	5857.58	14.36	3.85	34.65	52.86	Max Avg	Horizontal	164	362	78.2	-25.4	Pass
#3	5867.79	13.73	3.82	34.68	52.23	Max Avg	Horizontal	164	362	68.2	-16.0	Pass
#1 5850.00 Band-Edge												
Test No	Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002											



## Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac20
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5825.00	Data Rate:	6.50 MBit/s
Power Setting:	0x07	Tested By:	JMH

## **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5850.00	15.60	3.81	34.63	54.04	Max Avg	Horizontal	164	362	78.2	-24.2	Pass
#3	5871.15	15.59	3.81	34.68	54.08	Max Avg	Horizontal	164	362	68.2	-14.2	Pass
#2	5850.00					Band-Edge						
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002												



## Equipment Configuration for 5850 MHz Radiated Band-Edge Emissions

Antenna:	KP Performance KPPA-5GHZHV4P65-17 X4	Variant:	802.11n ac40
Antenna Gain (dBi):	Not Applicable	Modulation:	OFDM
Beam Forming Gain (Y):	Not Applicable	Duty Cycle (%):	99
Channel Frequency (MHz):	5795.00	Data Rate:	13.50 MBit/s
Power Setting:	0x07	Tested By:	JMH

## **Test Measurement Results**

Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
#1	5850.00	14.95	3.81	34.63	53.39	Max Avg	Horizontal	164	362	78.2	-24.8	Pass
#3	5860.00	14.21	3.86	34.65	52.72	Max Avg	Horizontal	164	362	68.2	-15.5	Pass
#2	5850.00					Band-Edge						
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002												



Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2nd August 2016Page:45 of 73

## A. APPENDIX - GRAPHICAL IMAGES

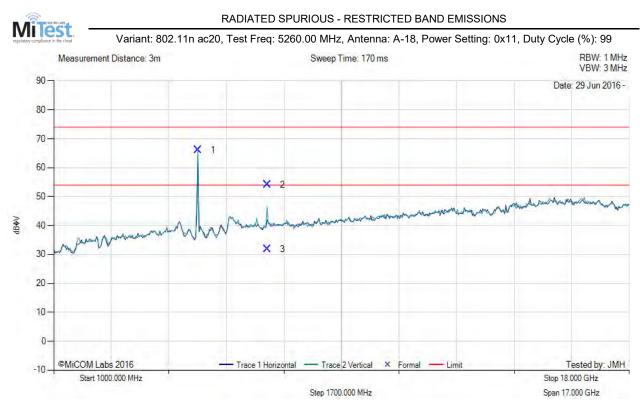
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## A.1. Radiated

A.1.1. Restricted Band Emissions

A.1.1.1. A-18



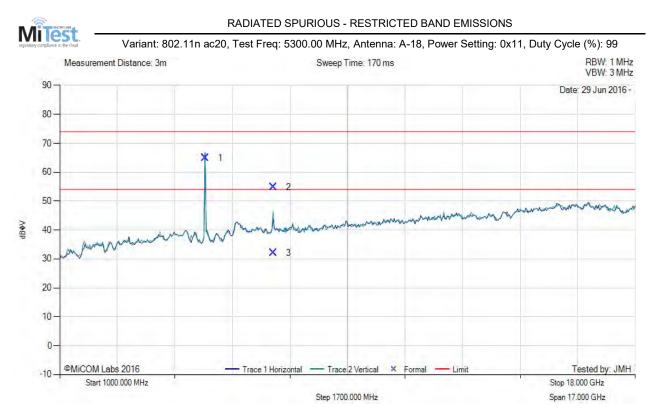
Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5261.53	73.79	3.66	-11.28	66.17	Fundamental	Vertical	200	1			
2	7310.64	57.18	4.24	-7.29	54.13	Max Peak	Vertical	113	329	74.0	-19.9	Pass
3	7310.64	34.94	4.24	-7.29	31.89	Max Avg	Vertical	113	329	54.0	-22.1	Pass

Test Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.

back to matrix

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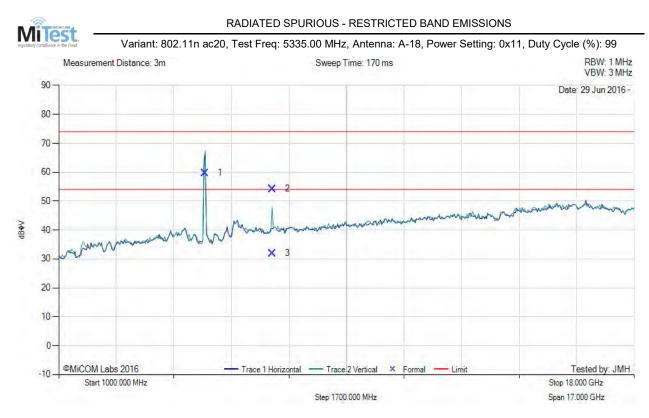




Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5301.45	72.13	3.81	-11.09	64.85	Fundamental	Vertical	200	1			
2	7309.90	57.95	4.23	-7.29	54.89	Max Peak	Vertical	136	317	74.0	-19.1	Pass
3	7309.90	35.16	4.23	-7.29	32.10	Max Avg	Vertical	136	317	54.0	-21.9	Pass

back to matrix

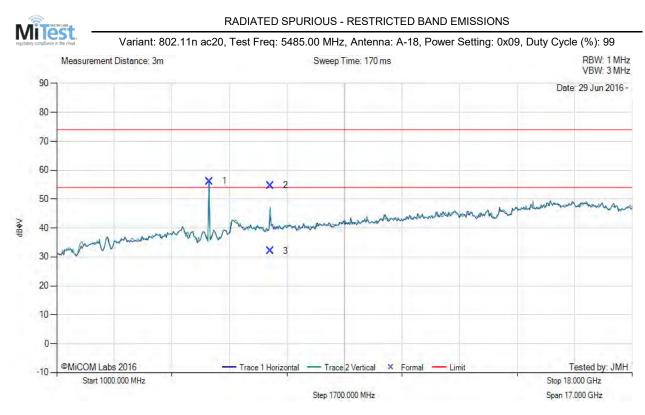




Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5321.48	67.04	3.75	-11.06	59.73	Fundamental	Vertical	101	1			
2	7311.99	57.31	4.24	-7.29	54.26	Max Peak	Vertical	138	307	74.0	-19.7	Pass
3	7311.99	35.03	4.24	-7.29	31.98	Max Avg	Vertical	138	307	54.0	-22.0	Pass

back to matrix

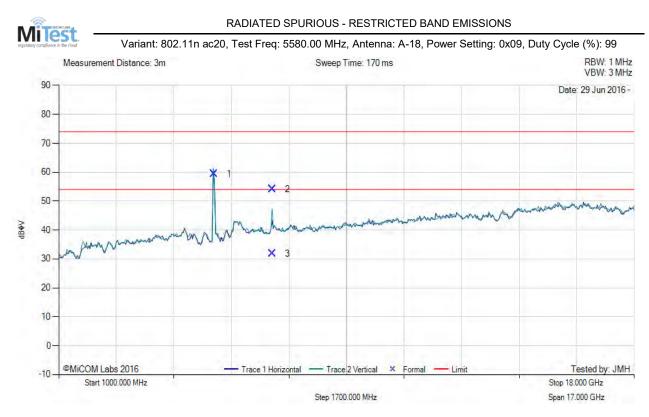




Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5507.53	63.57	3.75	-11.19	56.13	Fundamental	Vertical	189	284			
2	7310.38	57.82	4.23	-7.29	54.76	Max Peak	Vertical	167	322	74.0	-19.2	Pass
3	7310.38	35.12	4.23	-7.29	32.06	Max Avg	Vertical	167	322	54.0	-21.9	Pass

back to matrix

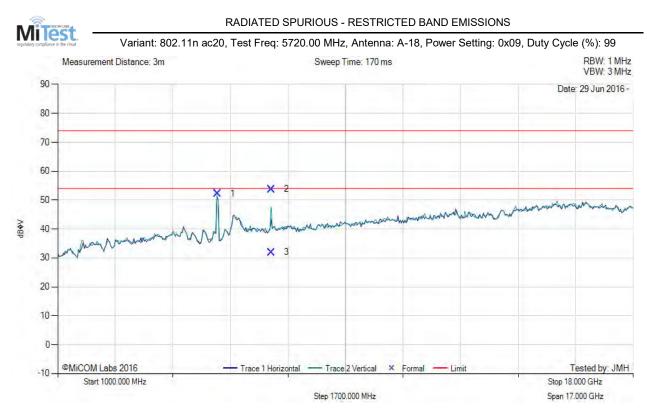




Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5581.64	66.78	3.80	-11.20	59.38	Fundamental	Vertical	200	1			
2	7310.88	57.18	4.24	-7.29	54.13	Max Peak	Vertical	137	325	74.0	-19.9	Pass
3	7310.88	34.82	4.24	-7.29	31.77	Max Avg	Vertical	137	325	54.0	-22.2	Pass

back to matrix



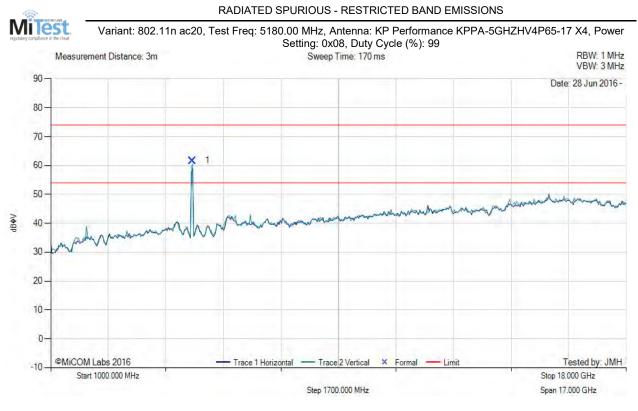


Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5721.40	59.14	3.80	-10.73	52.21	Fundamental	Vertical	200	1		-	
2	7311.99	56.80	4.24	-7.29	53.75	Max Peak	Vertical	131	311	74.0	-20.3	Pass
3	7311.99	35.03	4.24	-7.29	31.98	Max Avg	Vertical	131	311	54.0	-22.0	Pass

back to matrix



## A.1.1.2. KP Performance KPPA-5GHZHV4P65-17 X4



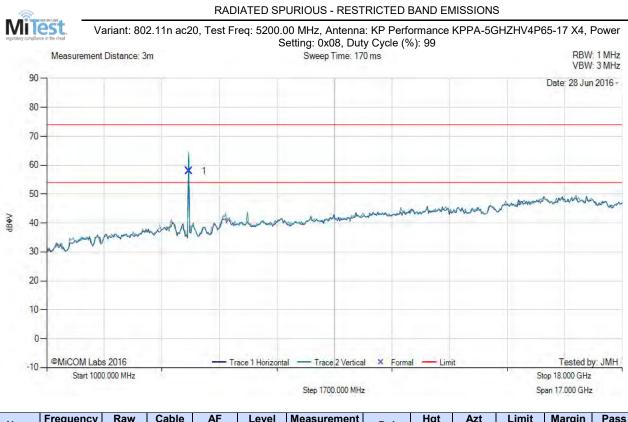
Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5188.02	69.48	3.68	-11.49	61.67	Fundamental	Vertical	151	1			

Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.5G notch filter added in front of amp to prevent overload

back to matrix



# Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2nd August 2016Page:53 of 73



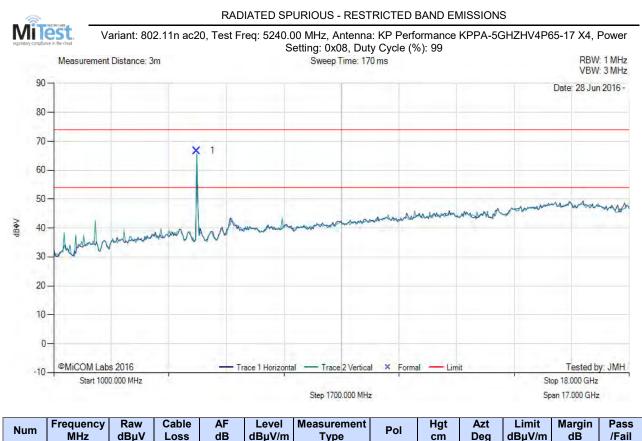
	Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
	1	5198.76	65.82	3.66	-11.47	58.01	Fundamental	Vertical	101	1			
- [													

Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload

back to matrix



# Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2<sup>nd</sup> August 2016Page:54 of 73



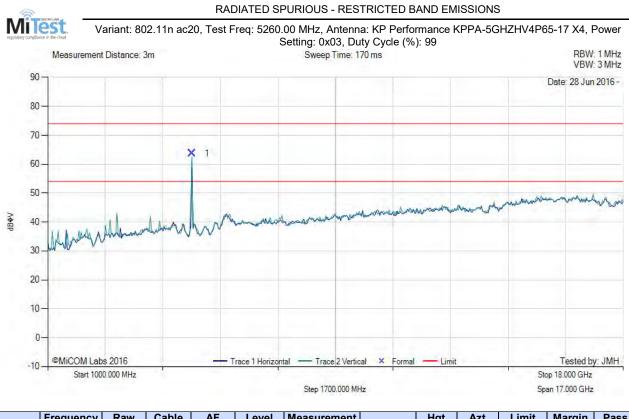
1	5231.86	74.49	3.63	-11.39	66.73	Fundamental	Vertical	151	1	 	

Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload

back to matrix



# Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2<sup>nd</sup> August 2016Page:55 of 73



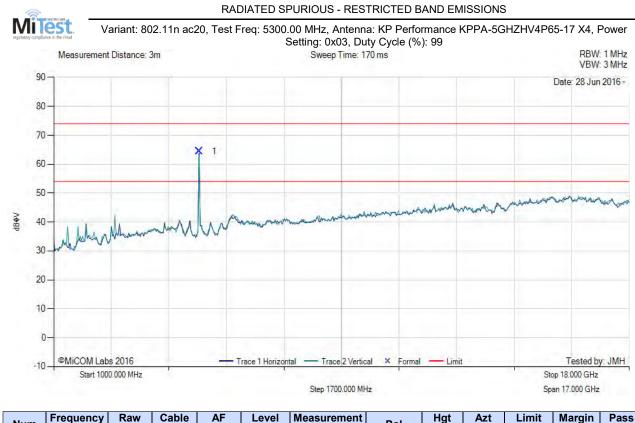
	Num	Frequency MHz	Raw dBµV	Loss	dB	dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	dBµV/m	Margin dB	Pass /Fail
	1	5262.97	71.30	3.67	-11.28	63.69	Fundamental	Horizontal	151	1			
Г													

Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload

back to matrix



# Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2<sup>nd</sup> August 2016Page:56 of 73



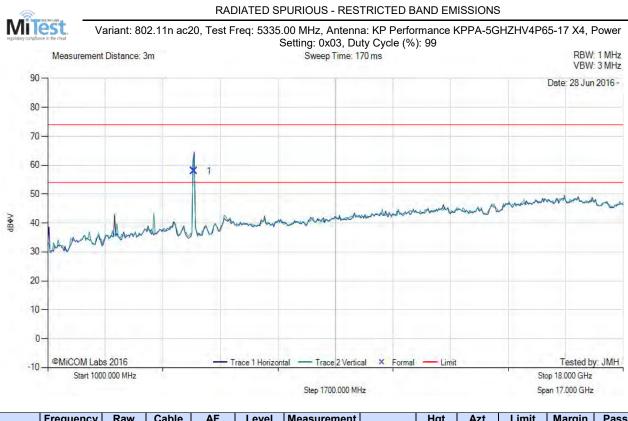
	Num	MHz	dBµV	Loss	dB	dBµV/m	Туре	Pol	cm	Deg	dBµV/m	dB	/Fail
	1	5293.67	71.69	3.78	-11.12	64.35	Fundamental	Horizontal	151	1			
ſ													

Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload

back to matrix



# Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2nd August 2016Page:57 of 73



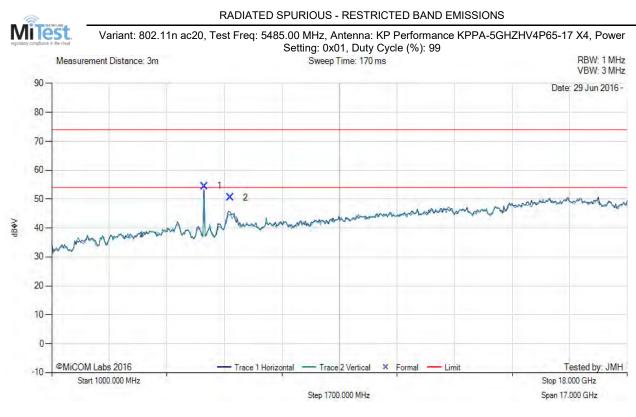
	Num	MHz	dBµV	Loss	dB	dBµV/m	Type	Pol	cm	Deg	dBµV/m	dB	/Fail
	1	5324.21	65.33	3.74	-11.06	58.01	Fundamental	Horizontal	101	0			
- [													

Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload

back to matrix



# Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2<sup>nd</sup> August 2016Page:58 of 73



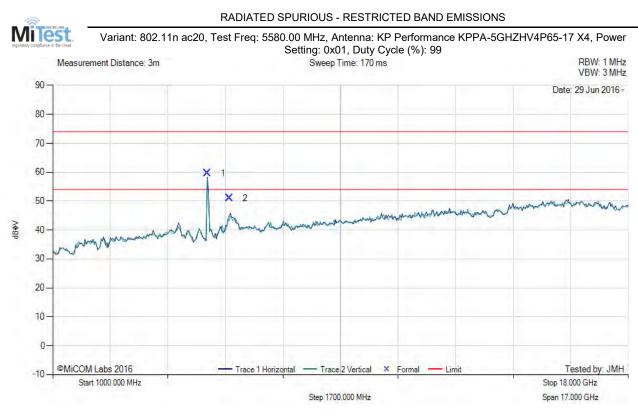
Nun	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5502.40	61.92	3.75	-11.17	54.50	Fundamental	Horizontal	151	1			
2	6280.32	55.04	3.92	-8.48	50.48	Peak (NRB)	Horizontal	151	1			Pass

Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload

back to matrix



# Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2<sup>nd</sup> August 2016Page:59 of 73



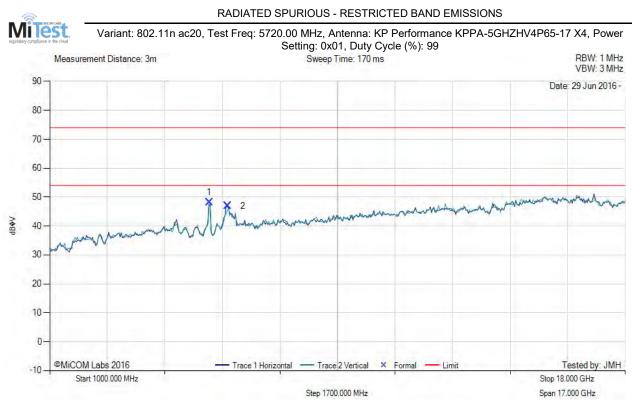
Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5574.39	67.07	3.81	-11.21	59.67	Fundamental	Horizontal	151	0			
2	6228.53	55.80	3.91	-8.72	50.99	Peak (NRB)	Horizontal	151	0			Pass

Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload

back to matrix



# Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2<sup>nd</sup> August 2016Page:60 of 73



Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5711.99	55.13	3.83	-10.77	48.19	Fundamental	Vertical	151	1			
2	6250.63	51.63	3.93	-8.56	47.00	Peak (NRB)	Horizontal	151	1			Pass

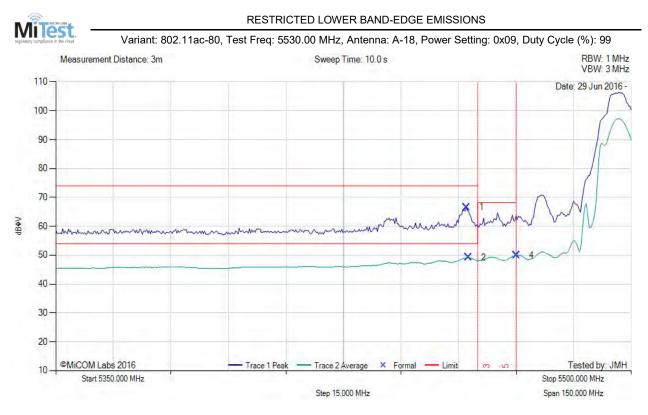
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. 5G notch filter added in front of amp to prevent overload

back to matrix



## A.1.2. Restricted Band-Edge Emissions

A.1.2.3. A-18

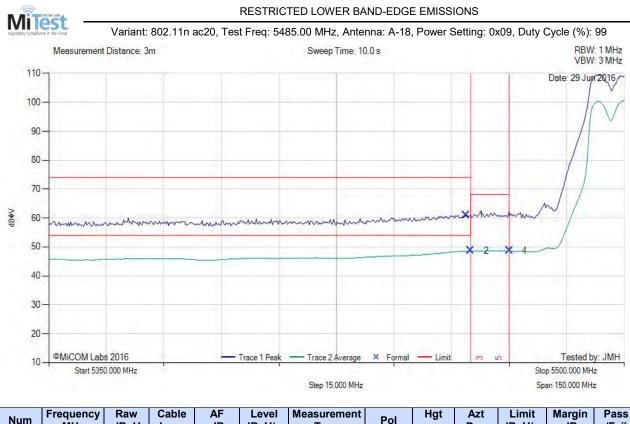


Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5456.99	28.44	3.80	34.30	66.54	Max Peak	Vertical	200	44	74.0	-7.5	Pass
2	5457.60	11.05	3.80	34.30	49.15	Max Avg	Vertical	200	44	54.0	-4.9	Pass
4	5470.00	11.85	3.76	34.32	49.93	Max Avg	Vertical	200	44	68.2	-18.3	Pass
3	5460.00					Restricted- Band						
5	5470.00					Band-Edge						

Test Notes: EUT A5-18 SN: 2119591877 on 150cm table, powered by Mimosa POE PS 502-00002.

back to matrix

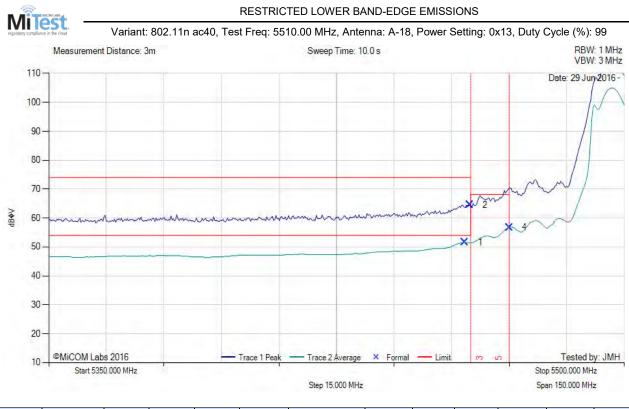




	Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
	1	5458.80	22.97	3.79	34.31	61.07	Max Peak	Vertical	200	44	74.0	-12.9	Pass
	2	5460.00	10.56	3.79	34.31	48.66	Max Avg	Vertical	200	44	54.0	-5.3	Pass
Γ	4	5470.00	10.58	3.76	34.32	48.66	Max Avg	Vertical	200	44	68.2	-19.5	Pass
	3	5460.00					Restricted- Band						
	5	5470.00					Band-Edge						

back to matrix

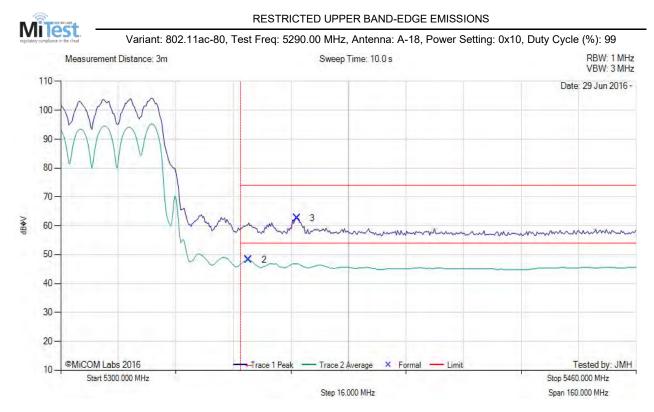




Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5458.50	13.43	3.80	34.30	51.53	Max Avg	Vertical	200	44	54.0	-3.5	Pass
2	5459.70	26.51	3.79	34.31	64.61	Max Peak	Vertical	200	44	74.0	-9.4	Pass
4	5470.00	18.71	3.76	34.32	56.79	Max Avg	Vertical	200	44	68.2	-11.4	Pass
3	5460.00		-	-		Restricted- Band						
5	5470.00					Band-Edge						

back to matrix



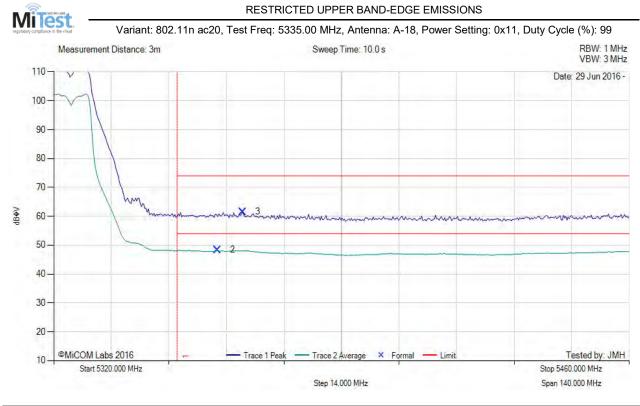


Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
2	5352.26	10.00	3.71	34.51	48.22	Max Avg	Vertical	200	59	54.0	-5.8	Pass
3	5365.73	24.42	3.69	34.47	62.58	Max Peak	Vertical	200	59	74.0	-11.4	Pass
1	5350.00					Restricted- Band						

back to matrix

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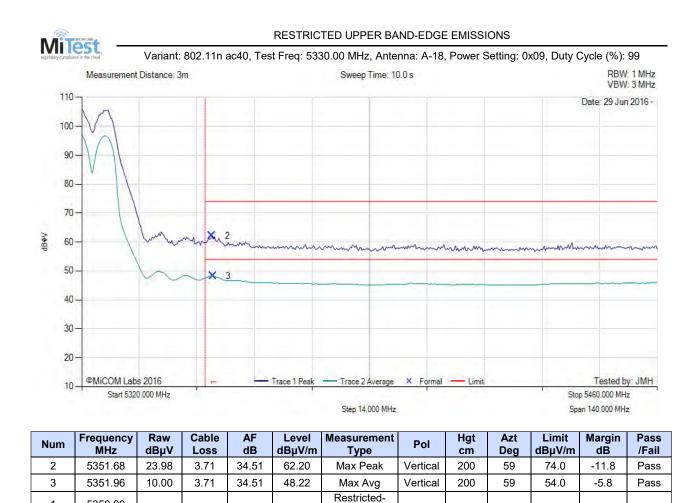


Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
2	5359.84	10.21	3.70	34.49	48.40	Max Avg	Vertical	200	59	54.0	-5.6	Pass
3	5366.01	23.40	3.69	34.47	61.56	Max Peak	Vertical	200	59	74.0	-12.4	Pass
1	5350.00					Restricted- Band						

Test Notes: EUT A5-18 SN: 2119591877 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.

back to matrix





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Band

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back to matrix

5350.00

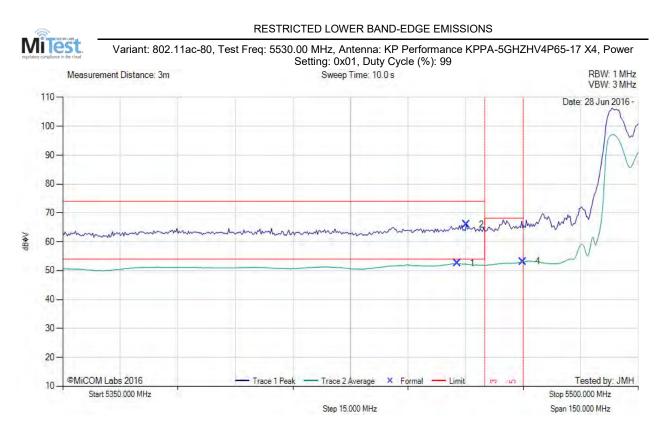
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1



## A.1.2.4. KP Performance KPPA-5GHZHV4P65-17 X4



Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5452.81	14.44	3.79	34.30	52.53	Max Avg	Horizontal	168	358	54.0	-1.5	Pass
2	5455.21	27.91	3.79	34.30	66.00	Max Peak	Horizontal	168	358	74.0	-8.0	Pass
4	5469.94	15.01	3.79	34.32	53.12	Max Avg	Horizontal	168	358	68.2	-15.1	Pass
3	5460.00					Restricted- Band						
5	5470.00					Band Edge						

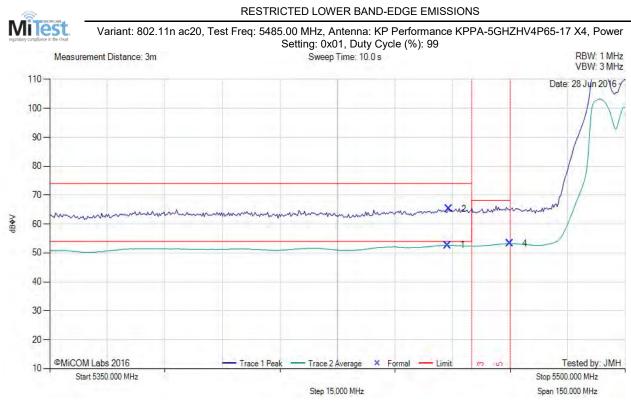
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.

back to matrix

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## Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2<sup>nd</sup> August 2016Page:68 of 73



Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5453.71	14.56	3.79	34.30	52.65	Max Avg	Horizontal	168	358	54.0	-1.4	Pass
2	5454.01	27.21	3.79	34.30	65.30	Max Peak	Horizontal	168	358	74.0	-8.7	Pass
4	5469.94	15.13	3.79	34.32	53.24	Max Avg	Horizontal	168	358	68.2	-15.0	Pass
3	5460.00		-			Restricted- Band						
5	5470.00					Band Edge						

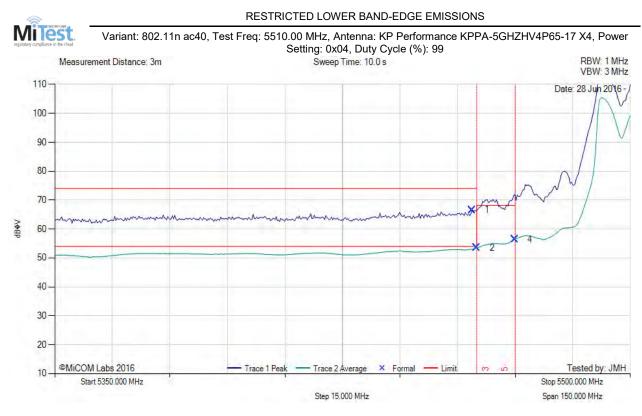
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002

back to matrix

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## Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2<sup>nd</sup> August 2016Page:69 of 73



Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5458.80	28.46	3.79	34.31	66.56	Max Peak	Horizontal	168	358	74.0	-7.4	Pass
2	5460.00	15.36	3.79	34.31	53.46	Max Avg	Horizontal	168	358	54.0	-0.5	Pass
4	5469.94	18.30	3.79	34.32	56.41	Max Avg	Horizontal	168	358	68.2	-11.8	Pass
3	5460.00					Restricted- Band						
5	5470.00					Band Edge						

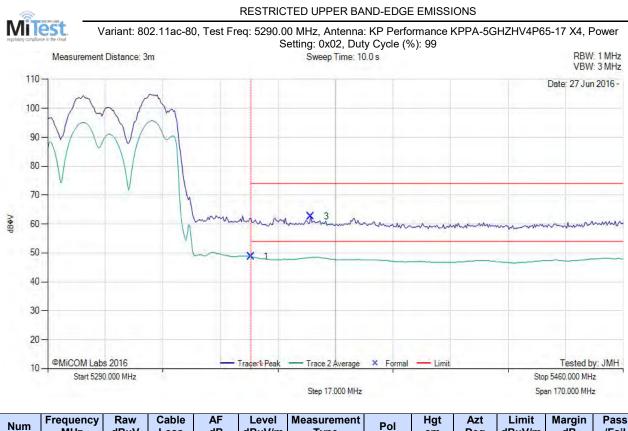
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002. Power reduction to meet band edge limits.

back to matrix

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## Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2nd August 2016Page:70 of 73



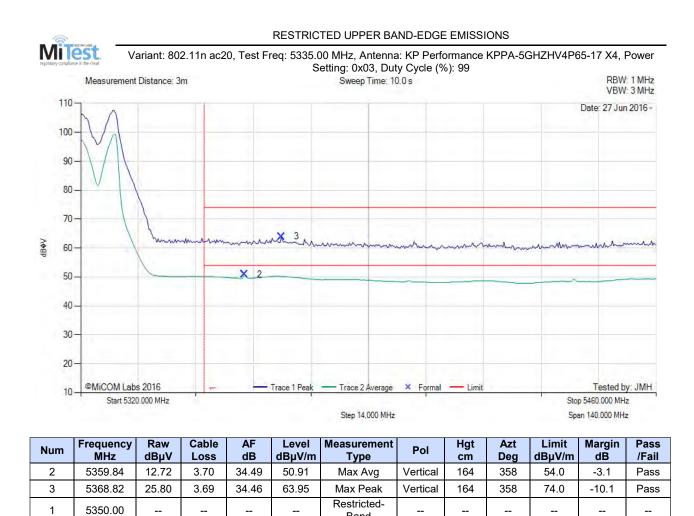
Nu	m	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1		5350.00	10.54	3.70	34.51	48.75	Max Avg	Vertical	164	358	54.0	-5.3	Pass
3		5367.76	24.39	3.69	34.47	62.55	Max Peak	Vertical	164	358	74.0	-11.5	Pass
2		5350.00					Restricted- Band						

Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.

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## Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2<sup>nd</sup> August 2016Page:71 of 73



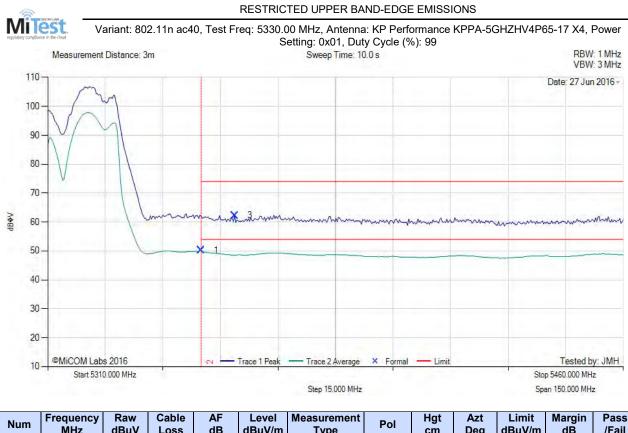
Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.

Band

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## Title:Mimosa Networks A5c, A5-14, A5-18To:FCC 15.407 & RSS 247 (DFS bands)Serial #:MIMO09-U8\_Radiated Addendum Rev AIssue Date:2<sup>nd</sup> August 2016Page:72 of 73



Num	MHz	dBµV	Loss	dB	dBµV/m	Type	Pol	cm	Deg	dBµV/m	dB	/Fail
1	5350.00	11.93	3.70	34.51	50.14	Max Avg	Vertical	164	358	54.0	-3.9	Pass
3	5358.72	24.02	3.71	34.49	62.22	Max Peak	Vertical	164	358	74.0	-11.8	Pass
2	5350.00					Restricted- Band						

Test Notes: EUT A5c SN: 2118161852 on 150cm table connected to KPPA antenna powered by Mimosa POE PS 502-00002.

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