



Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 152 of 294

APPENDIX A - GRAPHICAL IMAGES

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 153 of 294

A.1. Radiated

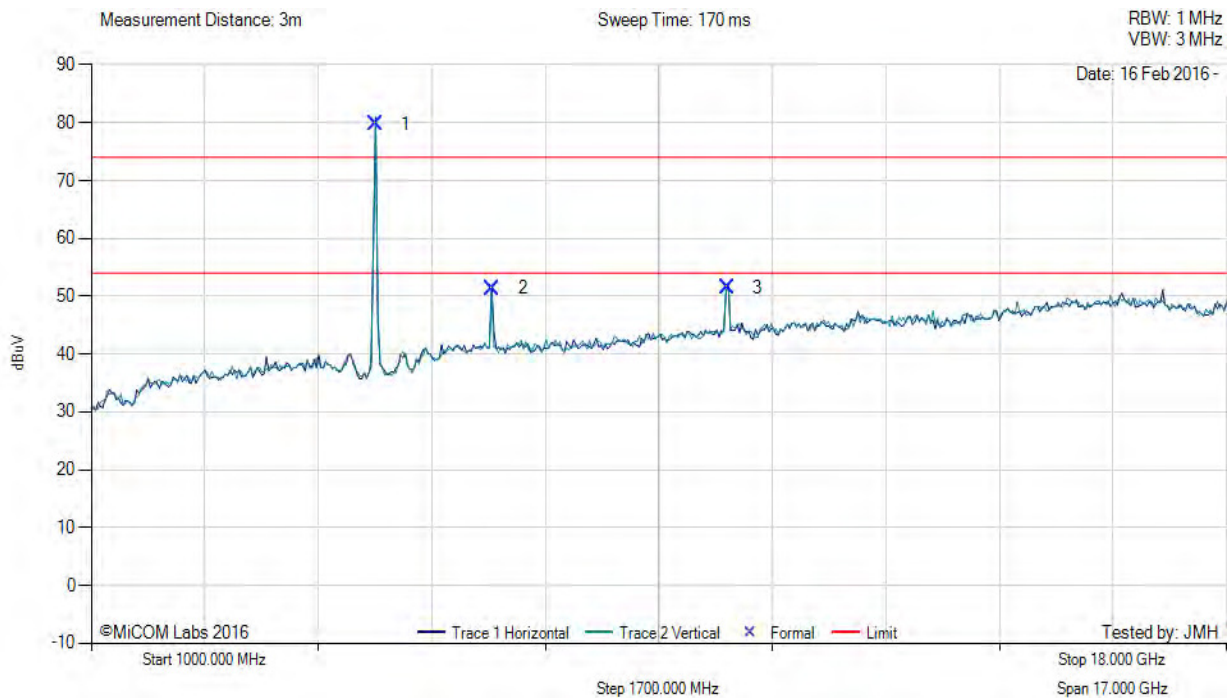
A.1.1. Radiated TX Spurious Emissions

A.1.1.1. AP-ANT-13B



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5260.00 MHz, Antenna: AP-ANT-13B, Power Setting: 21, Duty Cycle (%): 100



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	PoI	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5264.89	87.40	3.67	-11.27	79.80	Fundamental	Horizontal	101	0	--	--	
2	7013.26	54.59	4.18	-7.42	51.35	Peak (NRB)	Horizontal	101	71	--	--	Pass
3	10522.41	50.19	5.43	-4.20	51.42	Peak (NRB)	Horizontal	101	3	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

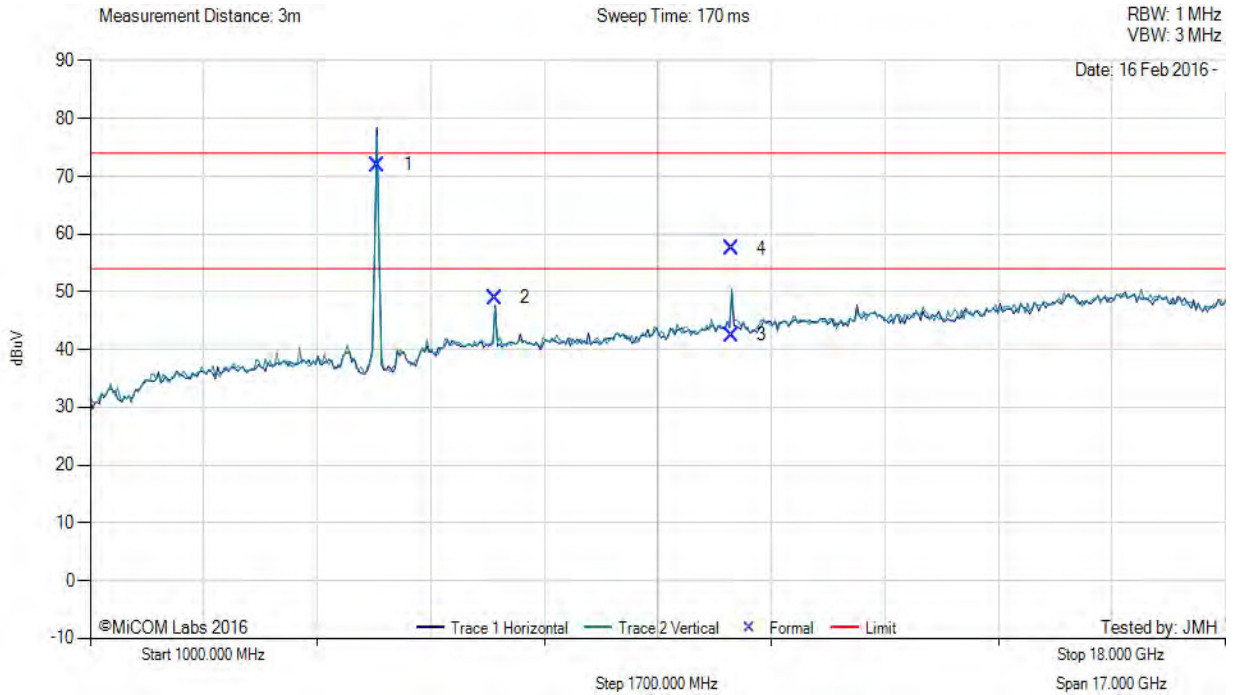


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 154 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5300.00 MHz, Antenna: AP-ANT-13B, Power Setting: 21, Duty Cycle (%): 100



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	5305.70	79.22	3.79	-11.08	71.93	Fundamental	Horizontal	100	1	--	--	
2	7066.63	52.12	4.18	-7.34	48.96	Peak (NRB)	Horizontal	100	151	--	--	Pass
3	10600.56	40.86	5.58	-3.93	42.51	Max Avg	Horizontal	161	301	54.0	-11.5	Pass
4	10600.56	55.76	5.58	-3.93	57.41	Max Peak	Horizontal	161	301	74.0	-16.6	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

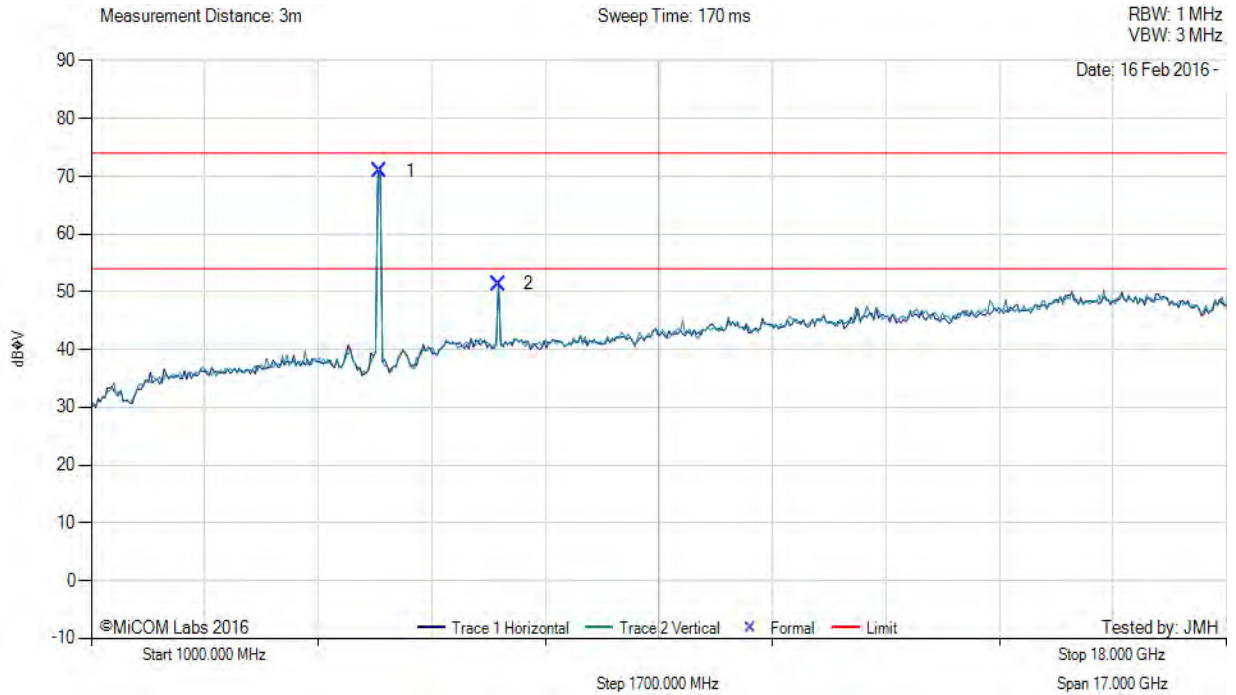


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 155 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-13B, Power Setting: 16, Duty Cycle (%): 100



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	5326.05	78.22	3.73	-11.06	70.89	Fundamental	Horizontal	101	1	--	--	
2	7093.30	54.42	4.23	-7.33	51.32	Peak (NRB)	Horizontal	101	27	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

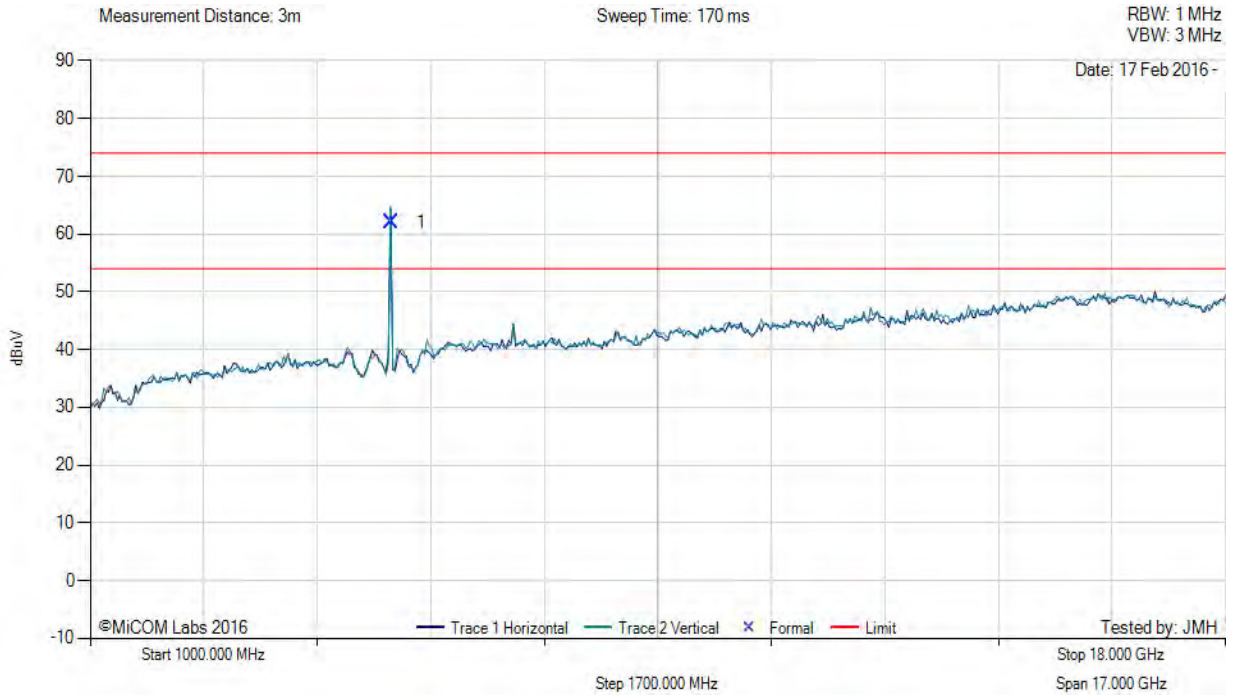


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 156 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-13B, Power Setting: 19, Duty Cycle (%): 100



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5506.73	69.49	3.75	-11.18	62.06	Fundamental	Vertical	101	41	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

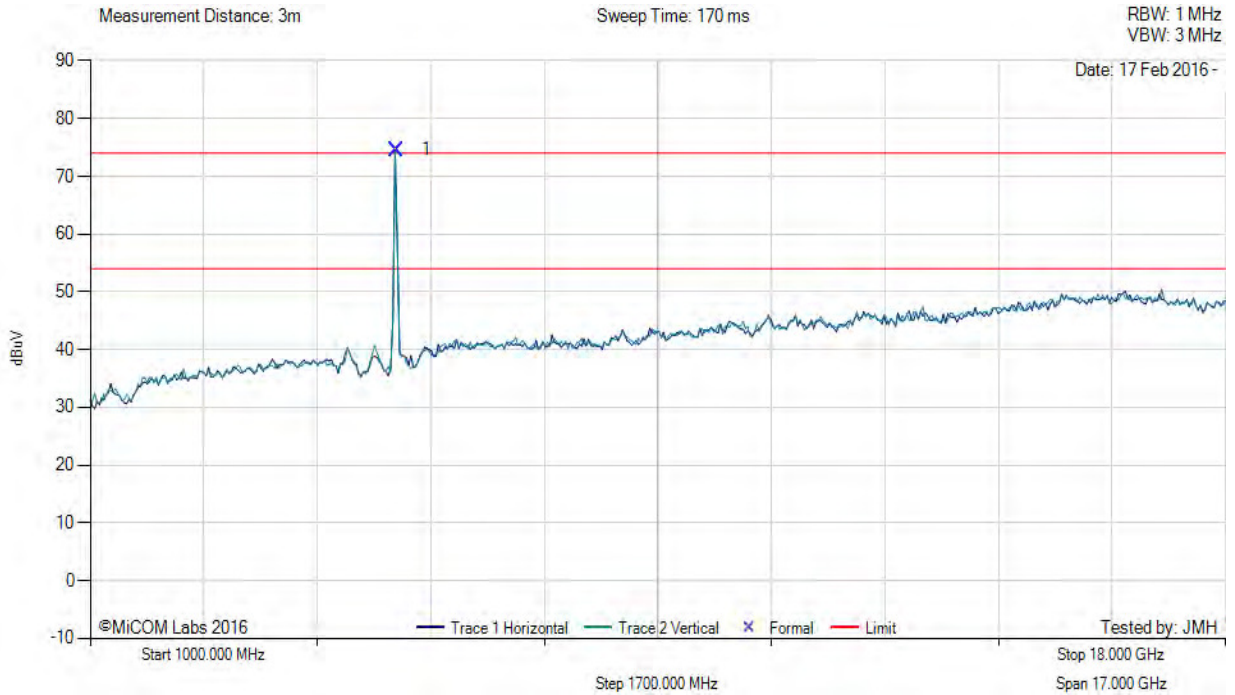


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 157 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5580.00 MHz, Antenna: AP-ANT-13B, Power Setting: 21, Duty Cycle (%): 100



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	5582.00	81.99	3.80	-11.20	74.59	Fundamental	Horizontal	101	1	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

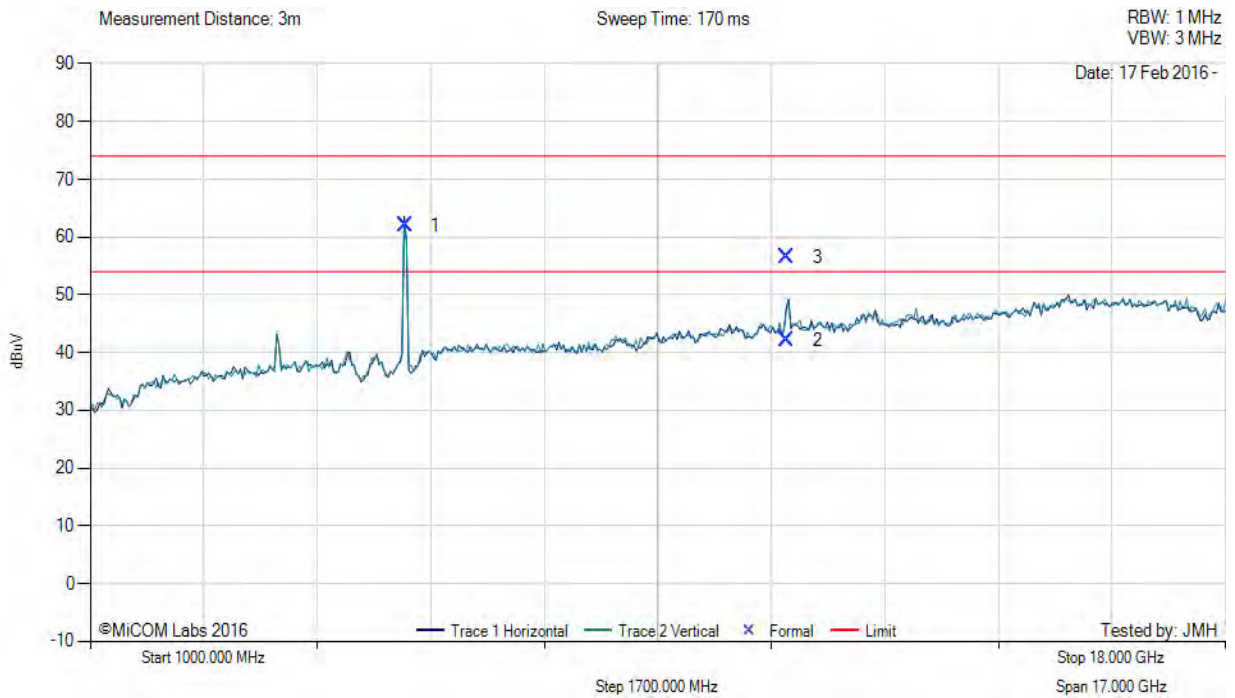


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 158 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5720.00 MHz, Antenna: AP-ANT-13B, Power Setting: 21, Duty Cycle (%): 100



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	5723.68	68.91	3.79	-10.72	61.98	Fundamental	Horizontal	101	0	--	--	
2	11436.48	41.73	5.36	-4.92	42.17	Max Avg	Horizontal	151	339	54.0	-11.8	Pass
3	11436.48	56.12	5.36	-4.92	56.56	Max Peak	Horizontal	151	339	74.0	-17.4	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



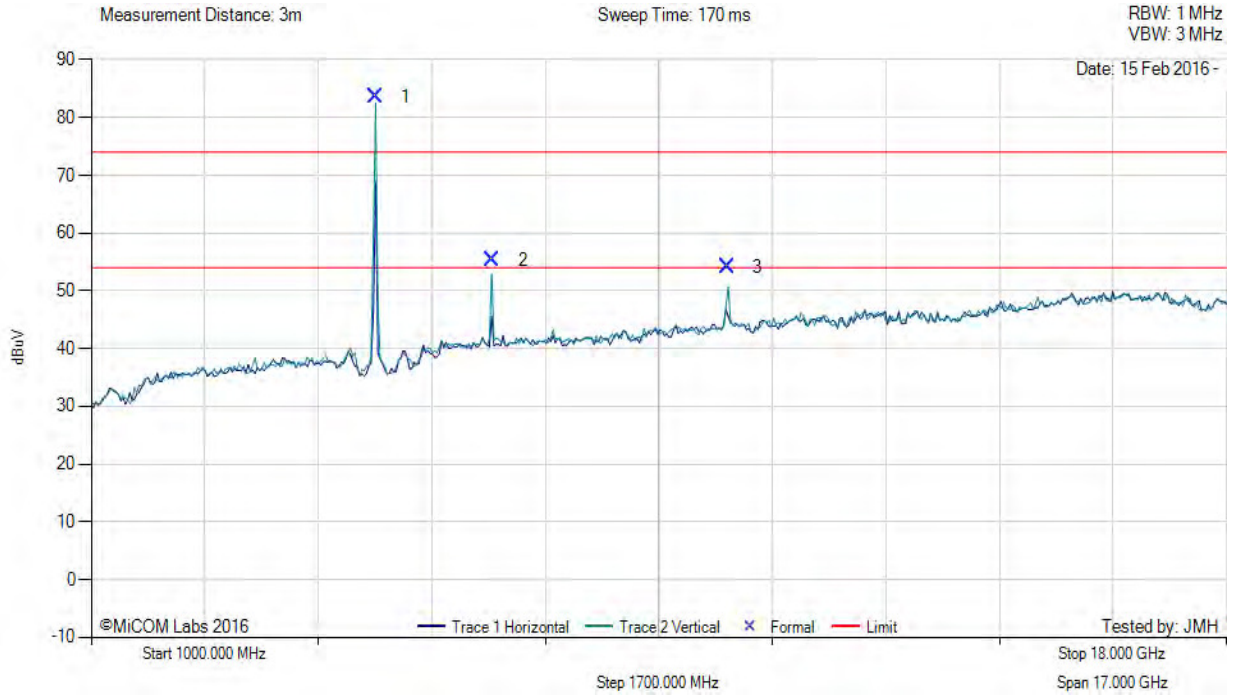
Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 159 of 294

A.1.1.2. AP-ANT-19



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5260.00 MHz, Antenna: AP-ANT-19, Power Setting: 21, Duty Cycle (%): 100



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	5258.72	91.27	3.65	-11.29	83.63	Fundamental	Vertical	151	1	--	--	
2	7013.26	58.56	4.18	-7.42	55.32	Peak (NRB)	Vertical	151	51	--	--	Pass
3	10525.14	52.95	5.43	-4.19	54.19	Peak (NRB)	Vertical	151	0	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

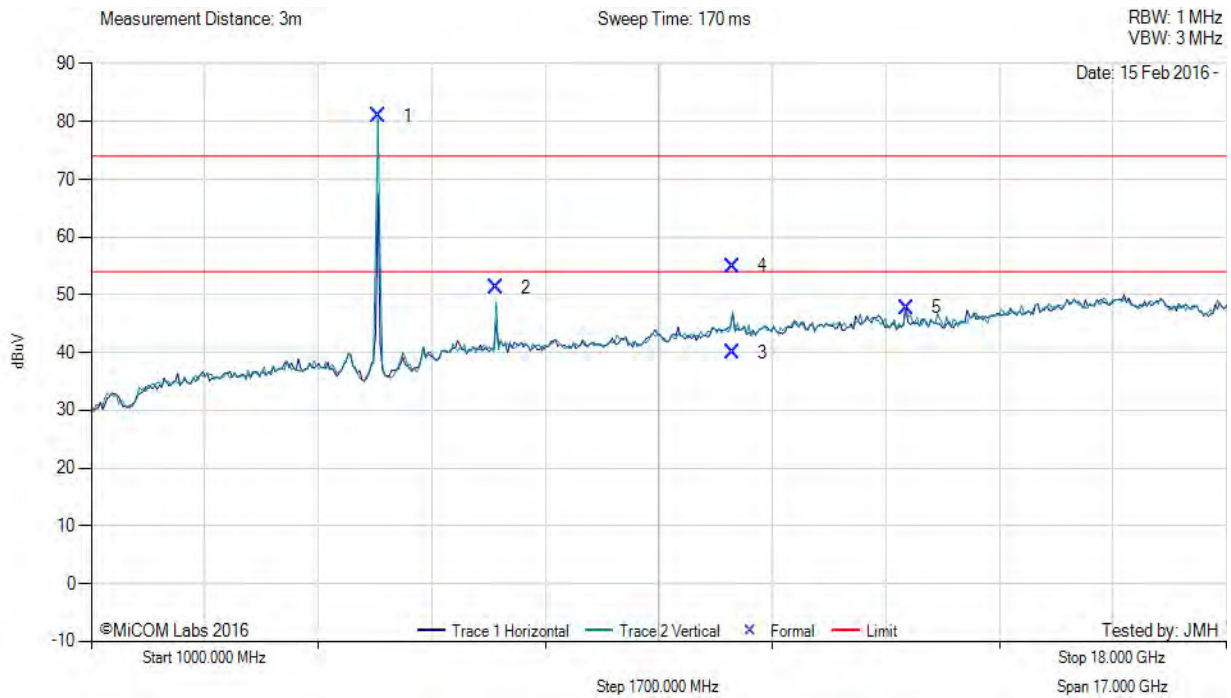


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 160 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5300.00 MHz, Antenna: AP-ANT-19, Power Setting: 21, Duty Cycle (%): 100



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	5298.00	88.23	3.81	-11.10	80.94	Fundamental	Vertical	151	0	--	--	
2	7066.69	54.41	4.18	-7.34	51.25	Peak (NRB)	Vertical	151	0	--	--	Pass
3	10601.82	38.31	5.57	-3.93	39.95	Max Avg	Vertical	158	289	54.0	-14.1	Pass
4	10601.82	53.35	5.57	-3.93	54.99	Max Peak	Vertical	158	289	74.0	-19.0	Pass
5	13206.89	48.82	5.34	-6.39	47.77	Peak (NRB)	Horizontal	151	176	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

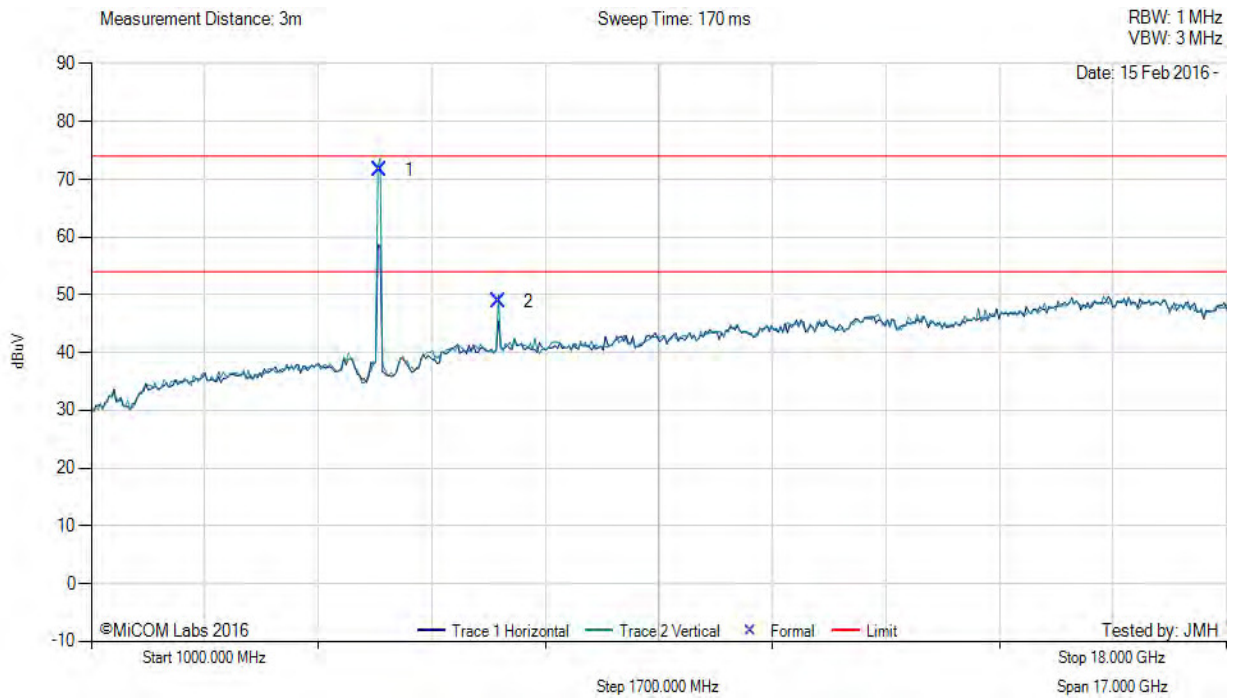


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 161 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-19, Power Setting: 16, Duty Cycle (%): 100



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	5318.08	78.93	3.75	-11.07	71.61	Fundamental	Vertical	101	1	--	--	
2	7093.23	51.94	4.23	-7.33	48.84	Peak (NRB)	Vertical	101	1	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



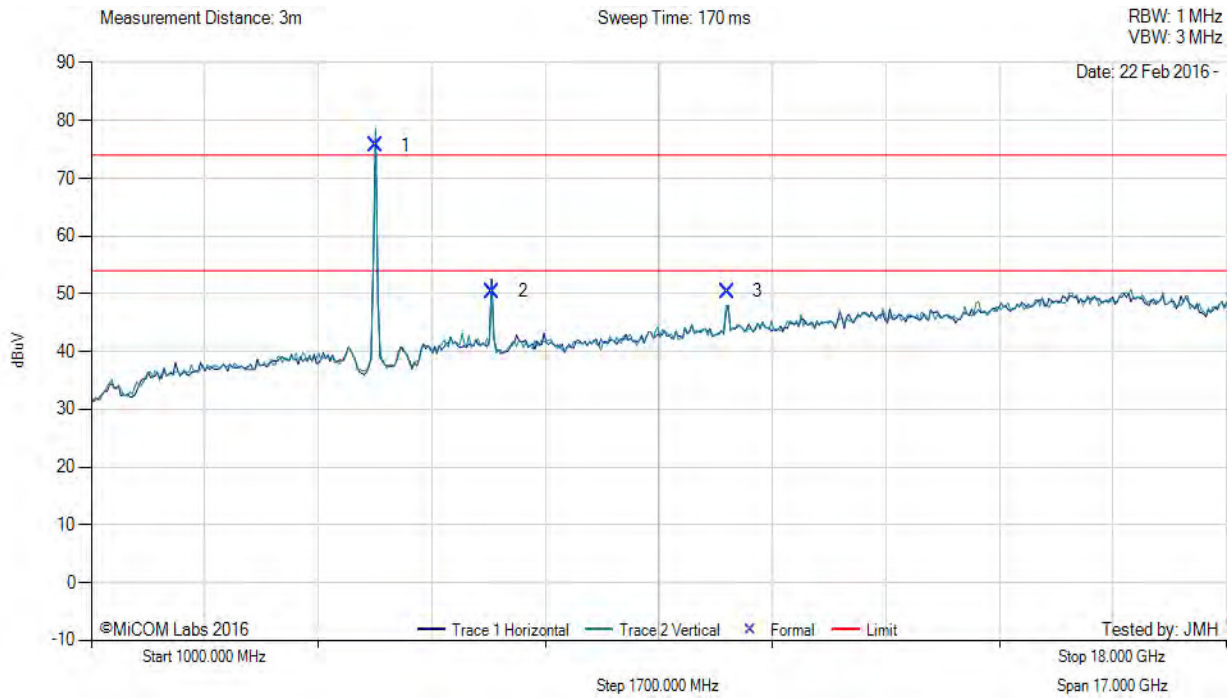
Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 162 of 294

A.1.1.3. AP-ANT-1W



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5260.00 MHz, Antenna: AP-ANT-1W, Power Setting: 21, Duty Cycle (%): 100



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	5255.43	83.31	3.64	-11.32	75.63	Fundamental	Horizontal	200	1	--	--	
2	7013.23	53.66	4.18	-7.42	50.42	Peak (NRB)	Horizontal	148	0	--	--	Pass
3	10525.98	49.20	5.42	-4.18	50.44	Peak (NRB)	Vertical	148	94	--	--	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

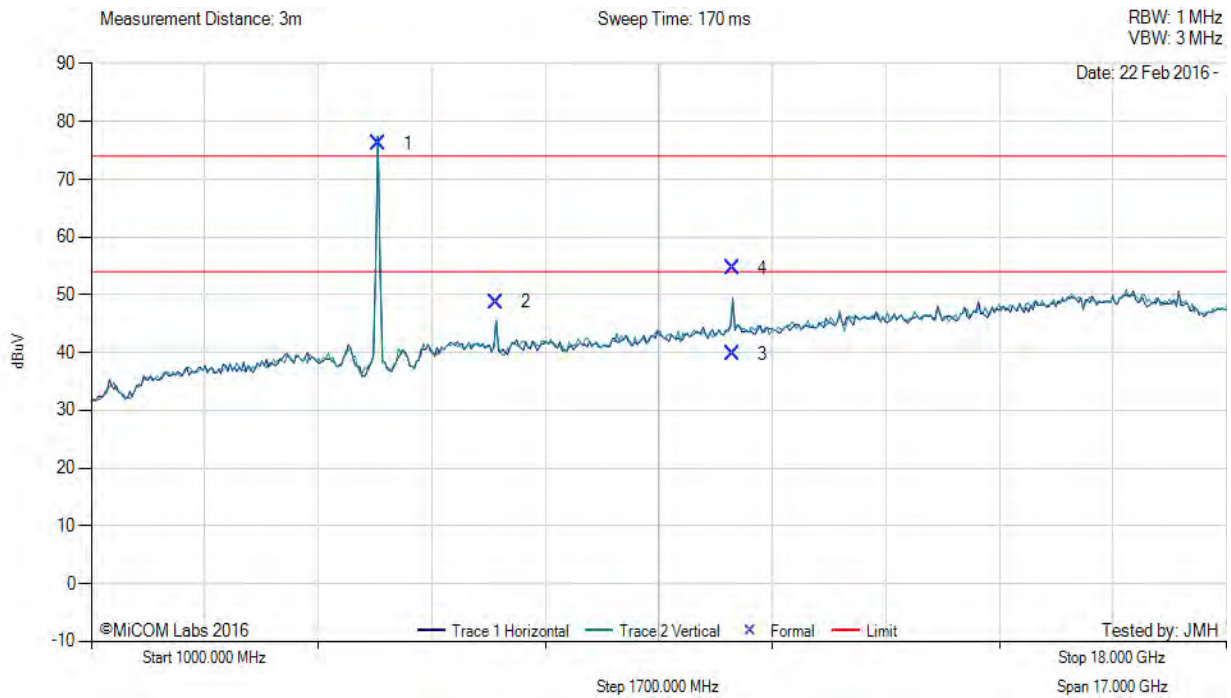


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 163 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5300.00 MHz, Antenna: AP-ANT-1W, Power Setting: 21, Duty Cycle (%): 100



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5296.00	83.47	3.79	-11.11	76.15	Fundamental	Horizontal	101	1	--	--	
2	7066.59	51.87	4.18	-7.34	48.71	Peak (NRB)	Horizontal	151	140	--	--	Pass
3	10600.52	38.15	5.58	-3.93	39.80	Max Avg	Vertical	191	2	54.0	-14.2	Pass
4	10600.52	53.01	5.58	-3.93	54.66	Max Peak	Vertical	191	2	74.0	-19.3	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

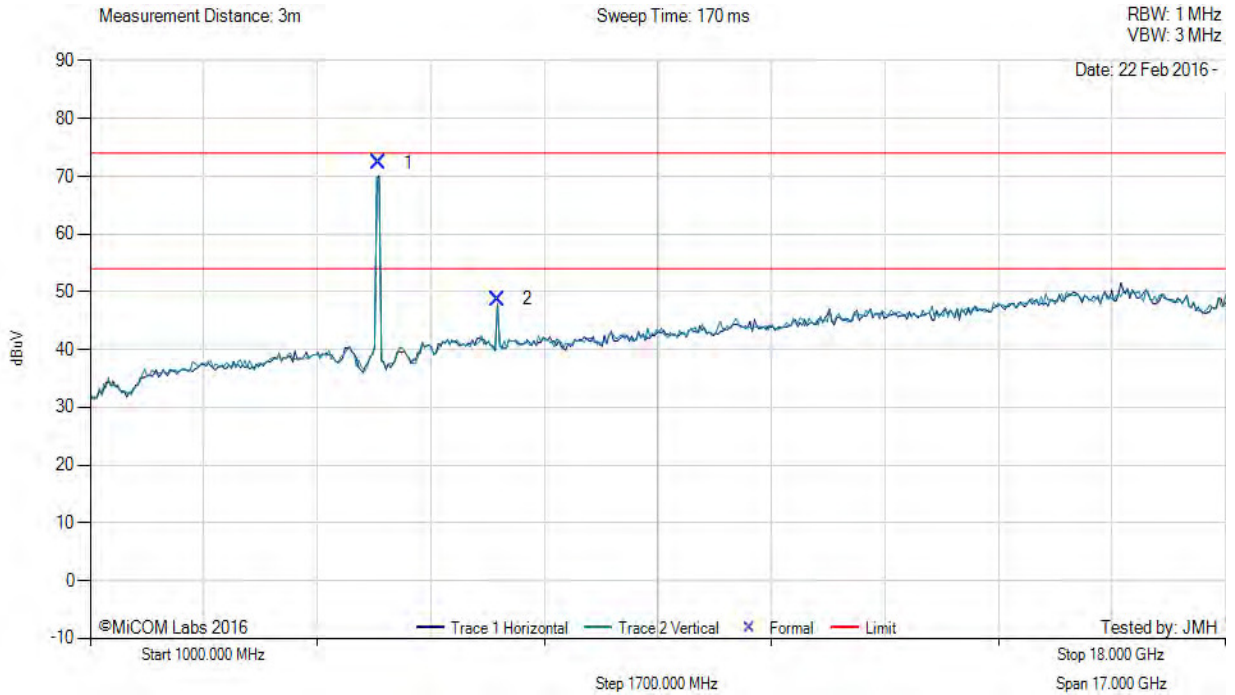


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 164 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-1W, Power Setting: 17, Duty Cycle (%): 100



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	5316.83	79.60	3.76	-11.07	72.29	Fundamental	Horizontal	151	14	--	--	
2	7093.29	51.87	4.23	-7.33	48.77	Peak (NRB)	Horizontal	151	62	--	--	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

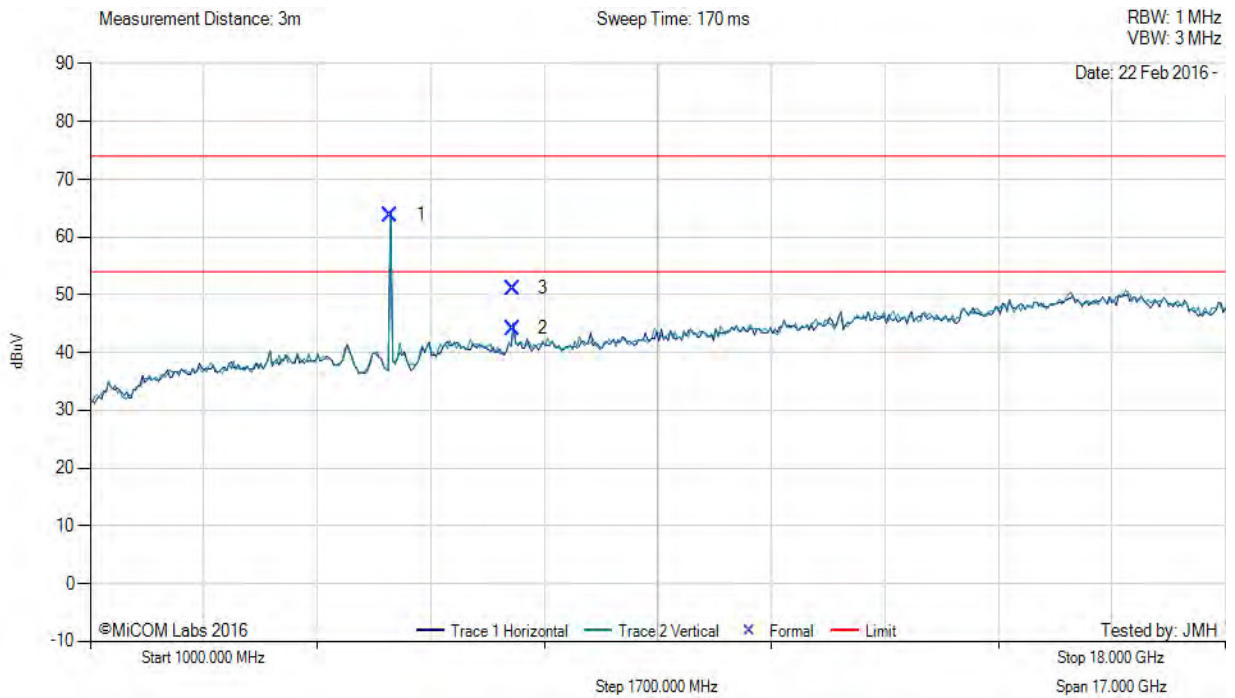


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 165 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-1W, Power Setting: 18, Duty Cycle (%): 100



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	5500.56	71.27	3.75	-11.17	63.85	Fundamental	Horizontal	200	7	--	--	
2	7333.26	47.12	4.28	-7.24	44.16	Max Avg	Horizontal	176	125	54.0	-9.8	Pass
3	7333.26	54.10	4.28	-7.24	51.14	Max Peak	Horizontal	176	125	74.0	-22.9	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

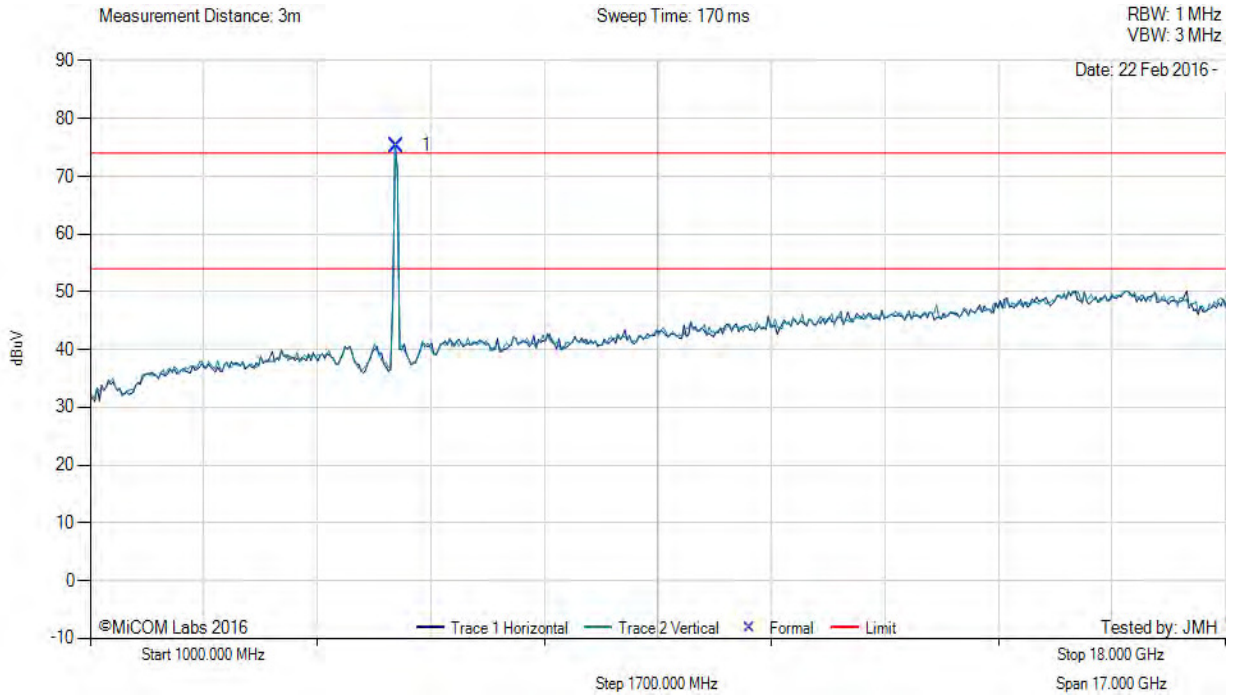


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 166 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5580.00 MHz, Antenna: AP-ANT-1W, Power Setting: 21, Duty Cycle (%): 100



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	5584.01	82.76	3.79	-11.19	75.36	Fundamental	Horizontal	101	1	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

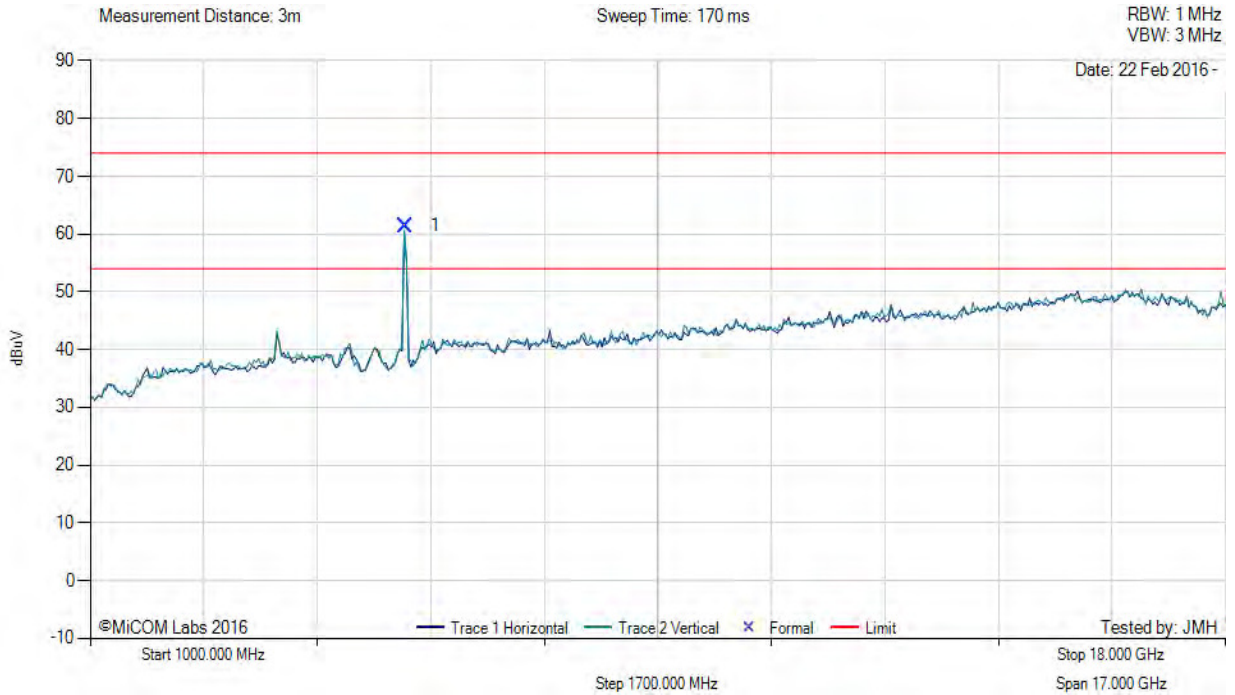


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 167 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5720.00 MHz, Antenna: AP-ANT-1W, Power Setting: 21, Duty Cycle (%): 100



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	5714.03	68.40	3.82	-10.76	61.46	Fundamental	Horizontal	101	38	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

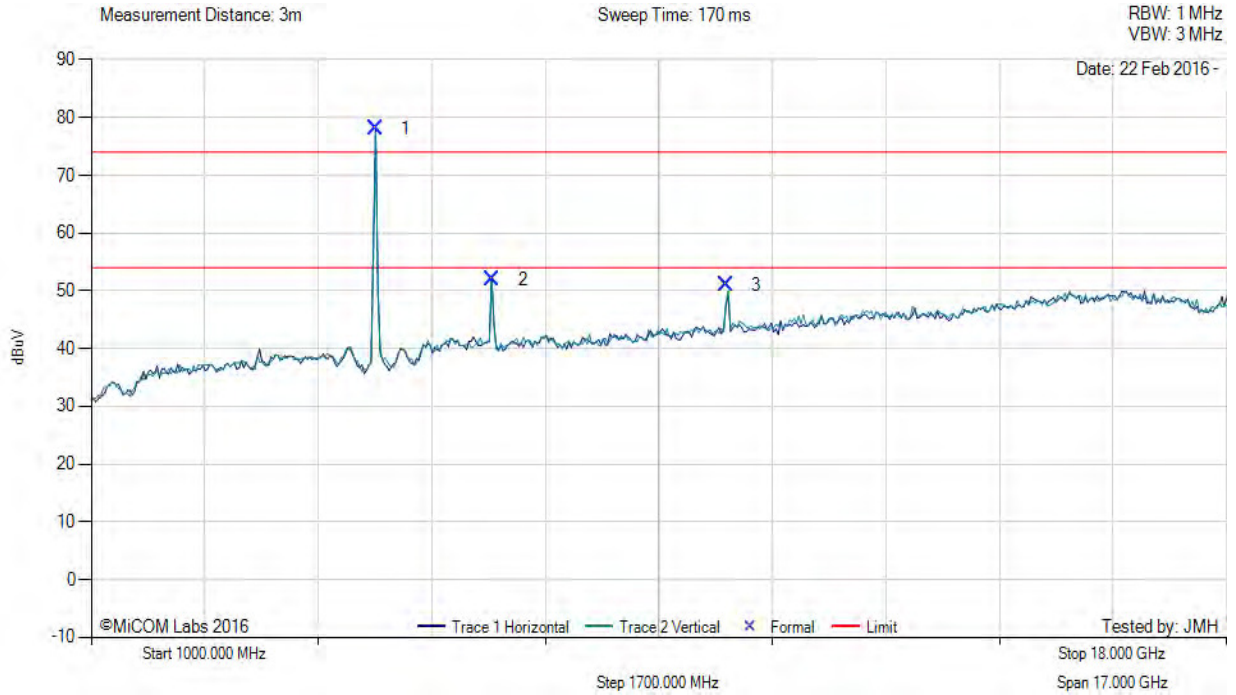


A.1.1.4. AP-ANT-20W



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5260.00 MHz, Antenna: AP-ANT-20W, Power Setting: 21, Duty Cycle (%): 100



Num	Frequency MHz	Raw dB μ V	Cable Loss	AF dB	Level dB μ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB μ V/m	Margin dB	Pass /Fail
1	5265.05	85.64	3.67	-11.27	78.04	Fundamental	Horizontal	151	1	--	--	
2	7013.34	55.13	4.18	-7.42	51.89	Peak (NRB)	Horizontal	151	1	--	--	Pass
3	10513.03	49.75	5.47	-4.24	50.98	Peak (NRB)	Vertical	151	158	--	--	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

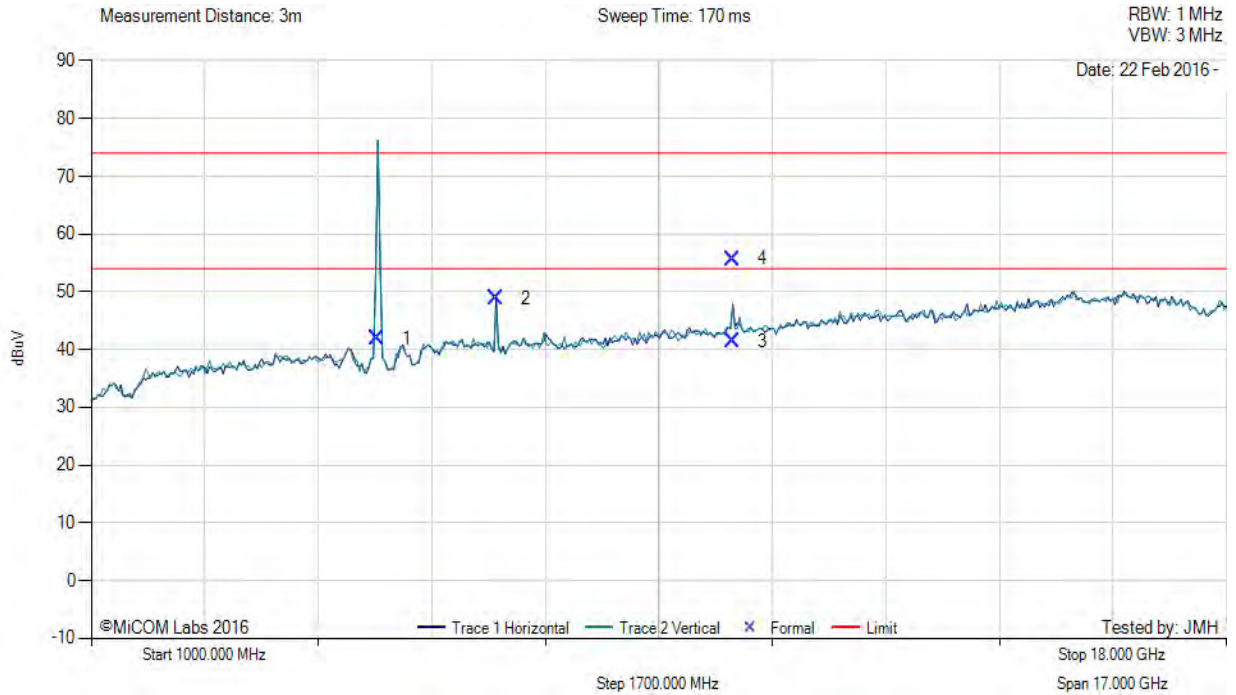


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 169 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5300.00 MHz, Antenna: AP-ANT-20W, Power Setting: 21, Duty Cycle (%): 100



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	5272.59	49.46	3.70	-11.23	41.93	Fundamental	Horizontal	151	31	--	--	
2	7066.70	51.94	4.18	-7.34	48.78	Peak (NRB)	Horizontal	151	31	--	--	Pass
3	10601.57	39.78	5.57	-3.93	41.42	Max Avg	Horizontal	156	298	54.0	-12.6	Pass
4	10601.57	54.07	5.57	-3.93	55.71	Max Peak	Horizontal	156	298	74.0	-18.3	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

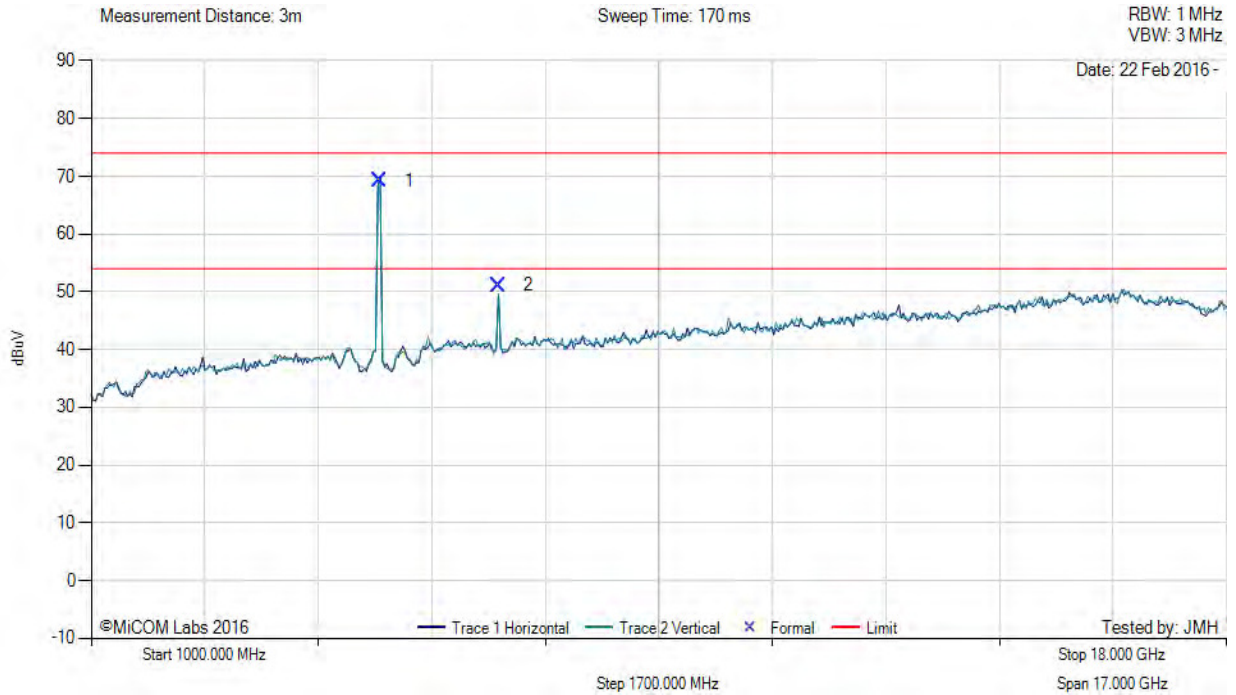


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 170 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-20W, Power Setting: 17.5, Duty Cycle (%): 100



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	5315.31	76.50	3.76	-11.07	69.19	Fundamental	Horizontal	101	11	--	--	
2	7093.28	54.21	4.23	-7.33	51.11	Peak (NRB)	Horizontal	101	141	--	--	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

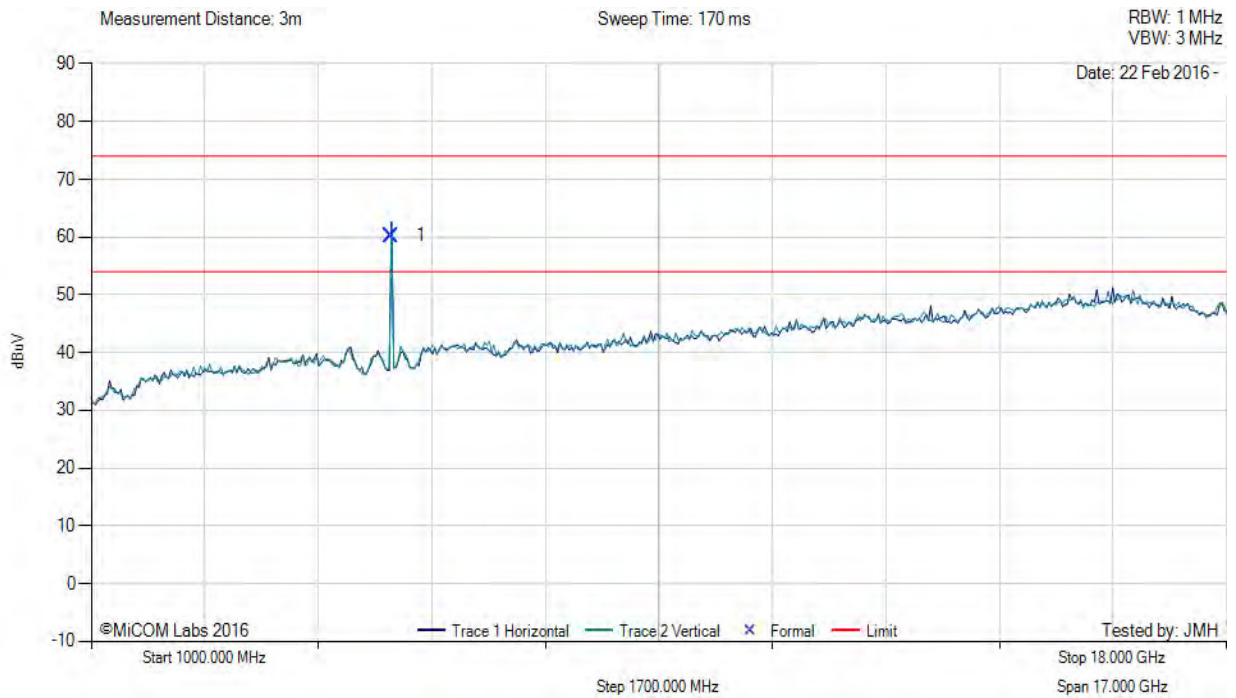


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 171 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-20W, Power Setting: 18.5, Duty Cycle (%): 100



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	5494.30	67.72	3.72	-11.17	60.27	Fundamental	Horizontal	101	1	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

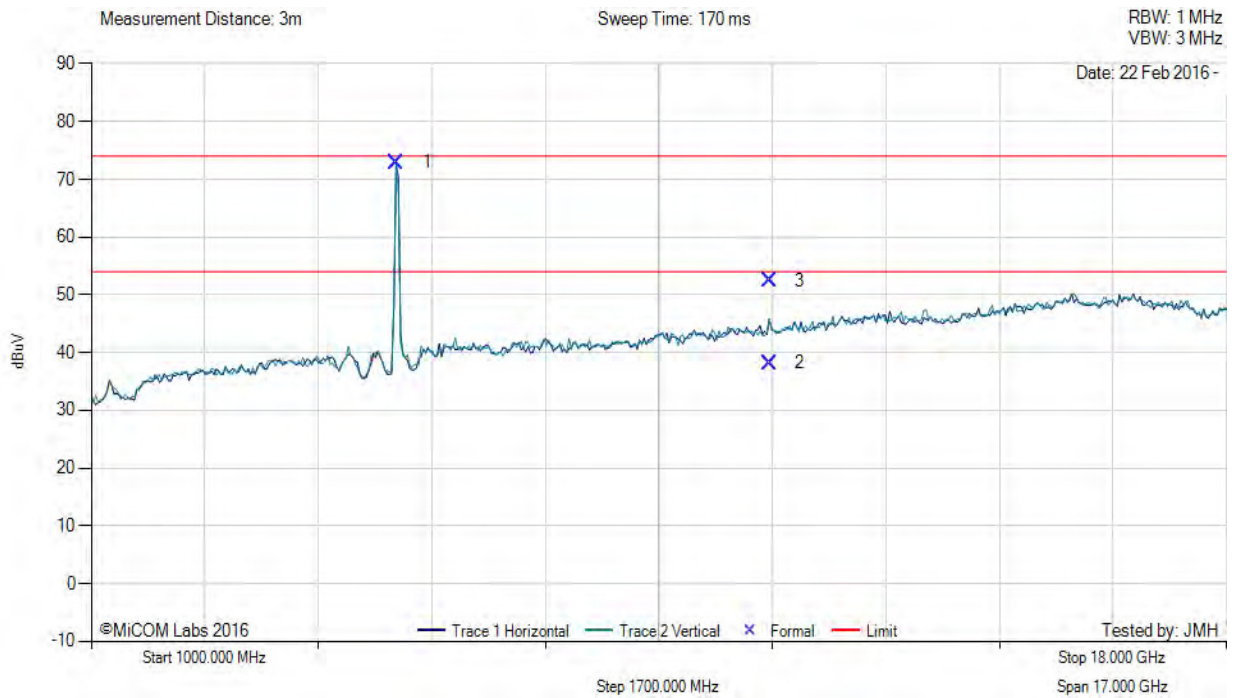


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 172 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5580.00 MHz, Antenna: AP-ANT-20W, Power Setting: 21, Duty Cycle (%): 100



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	5574.63	80.34	3.81	-11.21	72.94	Fundamental	Horizontal	101	1	--	--	
2	11156.76	36.26	5.98	-4.06	38.18	Max Avg	Horizontal	140	81	54.0	-15.8	Pass
3	11156.76	50.47	5.98	-4.06	52.39	Max Peak	Horizontal	140	81	74.0	-21.6	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 173 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5720.00 MHz, Antenna: AP-ANT-20W, Power Setting: 21, Duty Cycle (%): 100



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	5716.31	66.21	3.81	-10.76	59.26	Fundamental	Horizontal	101	32	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



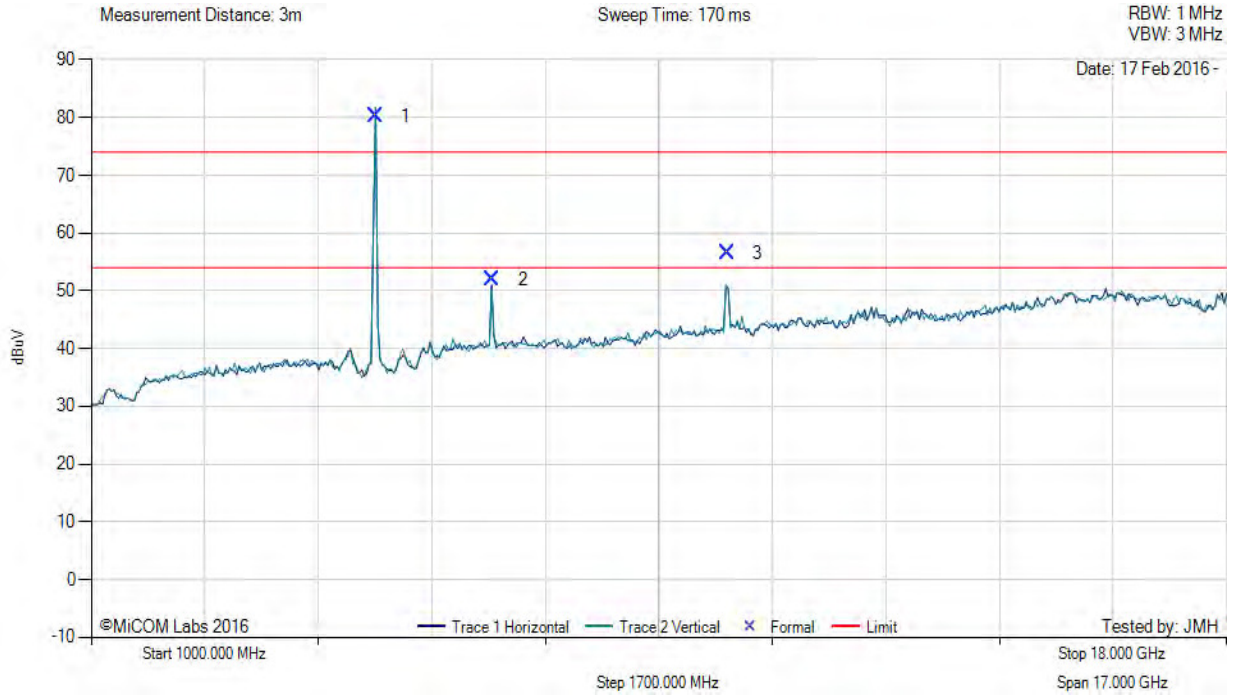
Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 174 of 294

A.1.1.5. AP-ANT-40



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5260.00 MHz, Antenna: AP-ANT-40, Power Setting: 21, Duty Cycle (%): 100



Num	Frequency MHz	Raw dB μ V	Cable Loss	AF dB	Level dB μ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB μ V/m	Margin dB	Pass /Fail
1	5258.08	87.95	3.65	-11.30	80.30	Fundamental	Horizontal	200	23	--	--	
2	7013.29	55.26	4.18	-7.42	52.02	Peak (NRB)	Horizontal	200	23	--	--	Pass
3	10521.84	55.23	5.43	-4.20	56.46	Peak (NRB)	Horizontal	200	58	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

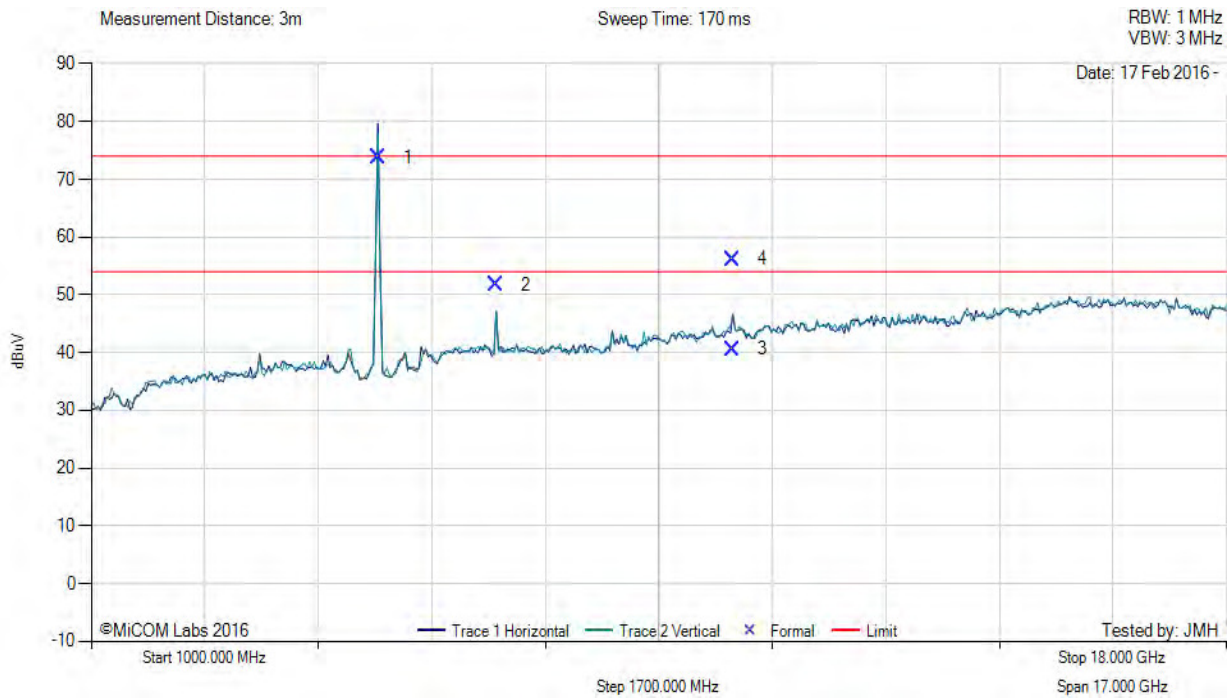


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 175 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5300.00 MHz, Antenna: AP-ANT-40, Power Setting: 21, Duty Cycle (%): 100



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	5293.11	81.09	3.77	-11.13	73.73	Fundamental	Horizontal	151	0	--	--	
2	7066.54	54.85	4.18	-7.34	51.69	Peak (NRB)	Horizontal	151	50	--	--	Pass
3	10607.42	38.95	5.55	-3.92	40.58	Max Avg	Horizontal	158	56	54.0	-13.4	Pass
4	10607.42	54.55	5.55	-3.92	56.18	Max Peak	Horizontal	158	56	74.0	-17.8	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

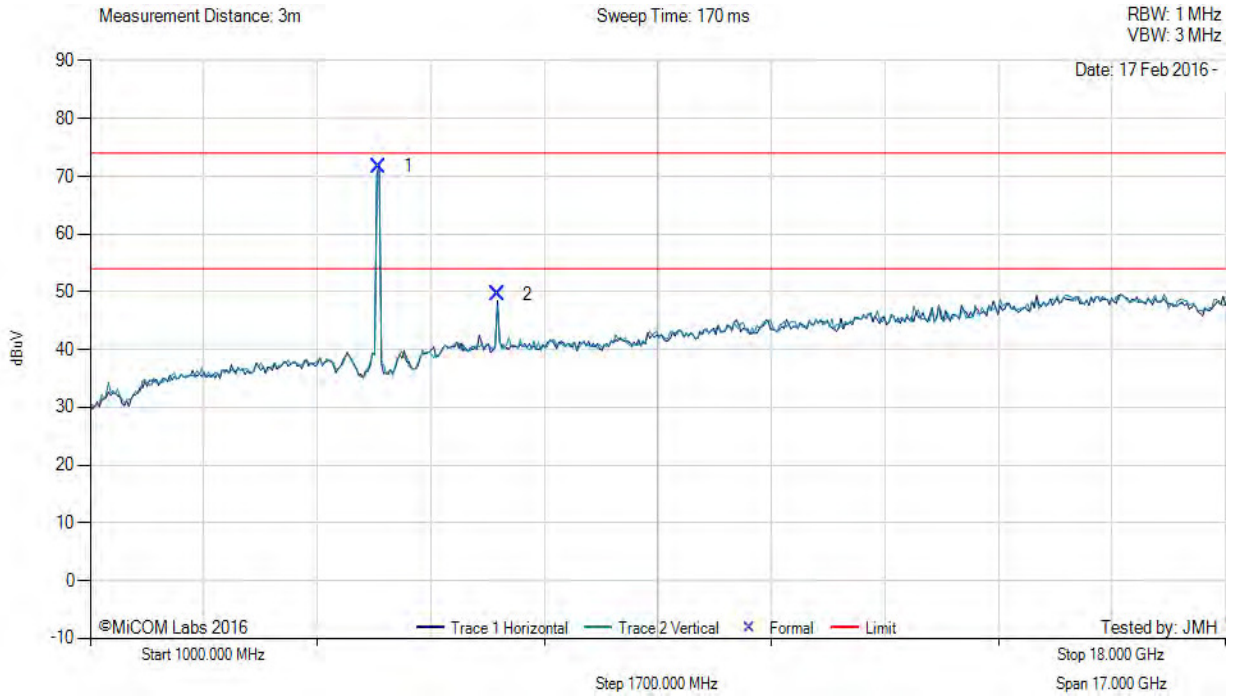


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 176 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-40, Power Setting: 16.5, Duty Cycle (%): 100



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	5313.78	79.01	3.76	-11.07	71.70	Fundamental	Horizontal	151	29	--	--	
2	7093.32	52.73	4.23	-7.33	49.63	Peak (NRB)	Horizontal	151	29	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

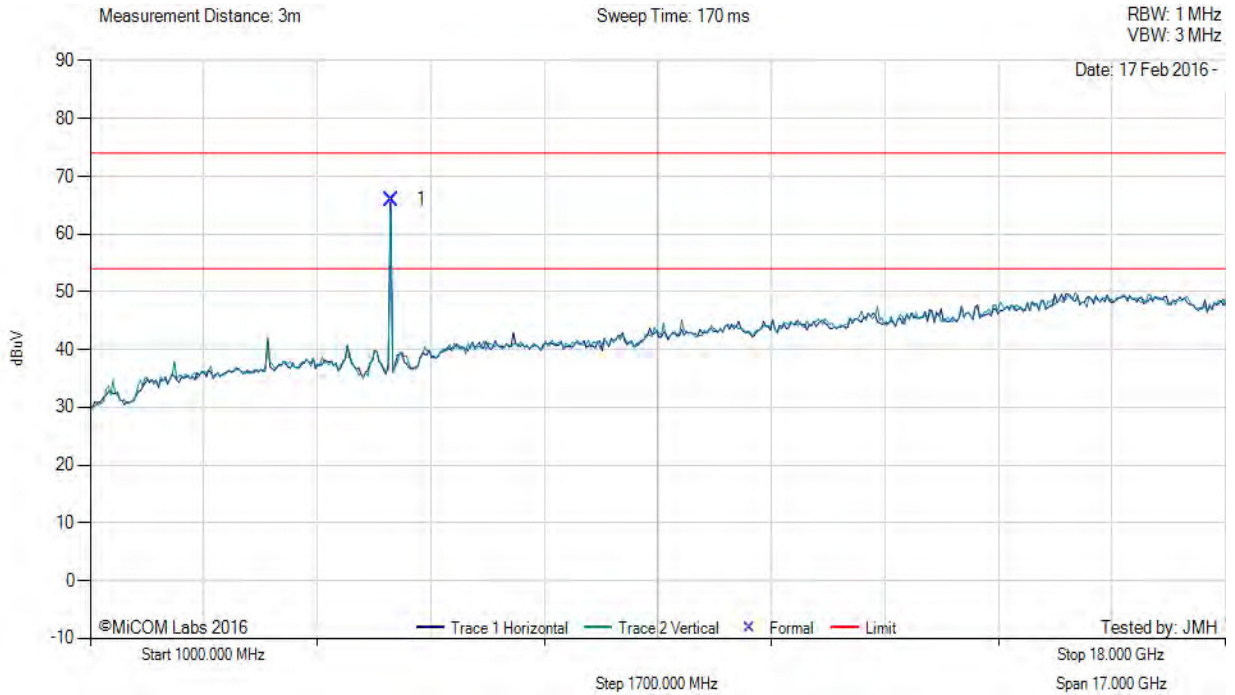


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 177 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-40, Power Setting: 18.5, Duty Cycle (%): 100



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	5503.92	73.38	3.75	-11.18	65.95	Fundamental	Horizontal	101	60	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

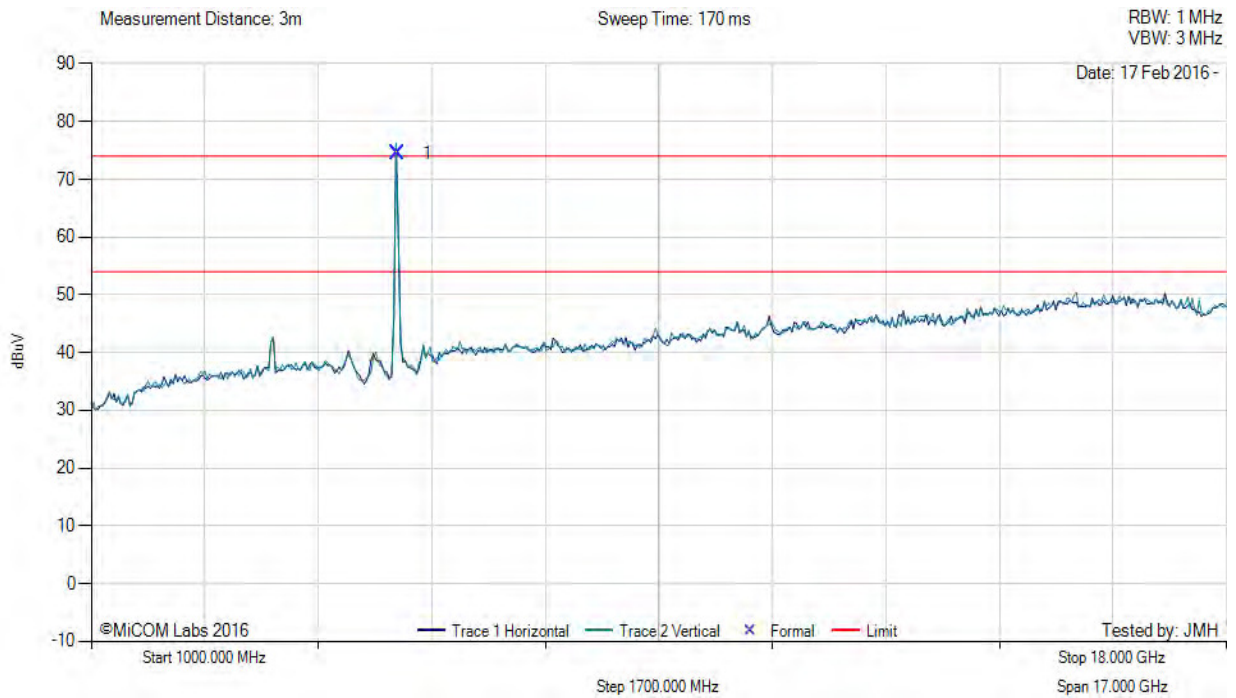


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 178 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5580.00 MHz, Antenna: AP-ANT-40, Power Setting: 21, Duty Cycle (%): 100



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	5577.72	81.93	3.81	-11.20	74.54	Fundamental	Horizontal	101	65	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

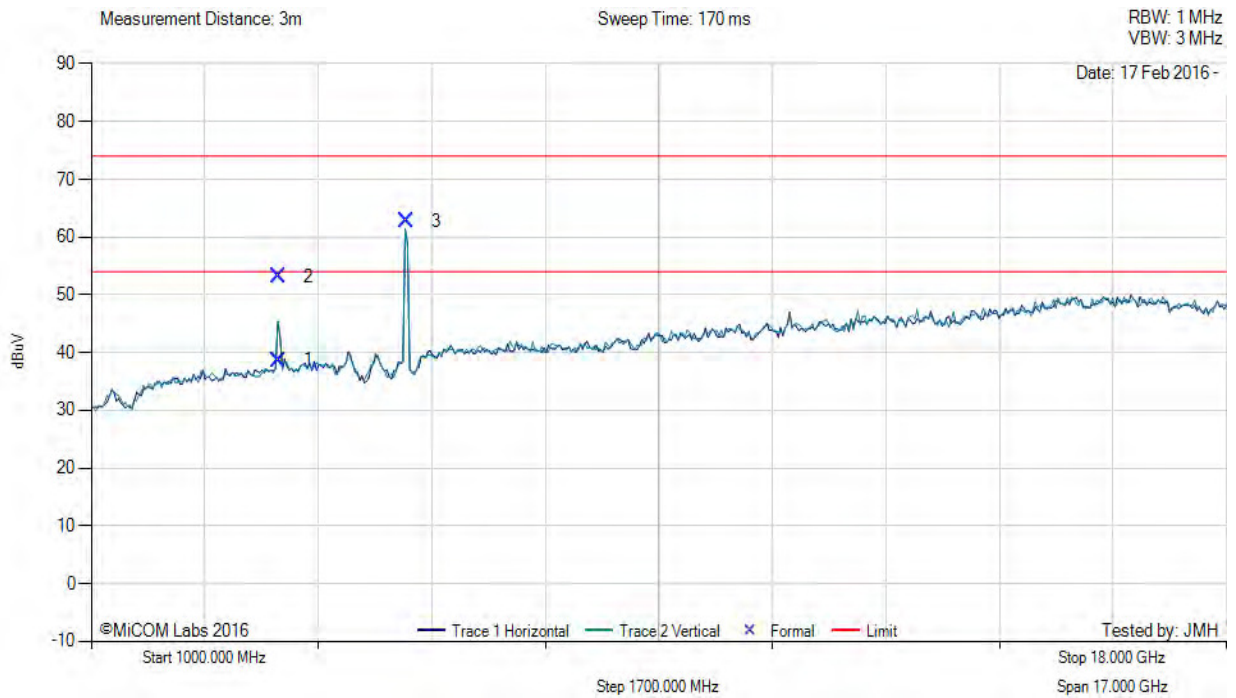


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 179 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5720.00 MHz, Antenna: AP-ANT-40, Power Setting: 21, Duty Cycle (%): 100



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	3810.43	46.31	3.25	-10.85	38.71	Max Avg	Horizontal	165	63	54.0	-15.3	Pass
2	3810.43	60.77	3.25	-10.85	53.17	Max Peak	Horizontal	165	63	74.0	-20.8	Pass
3	5713.95	69.71	3.82	-10.76	62.77	Fundamental	Horizontal	101	69	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

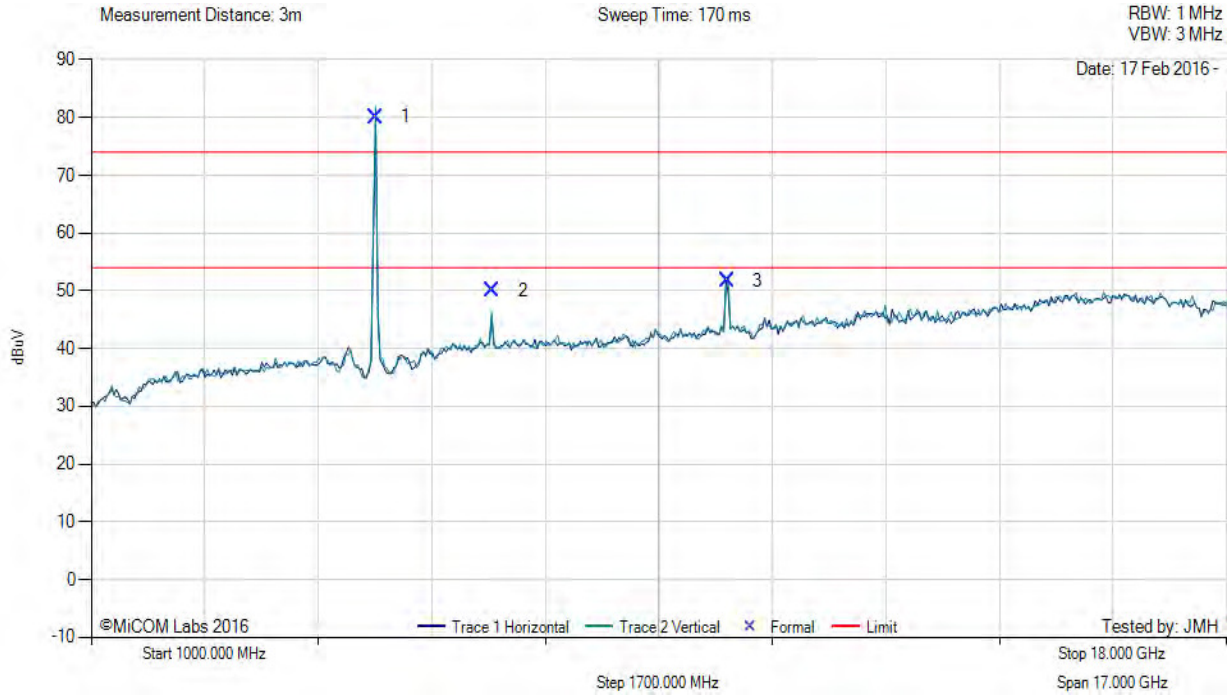


A.1.1.6. AP-ANT-45



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5260.00 MHz, Antenna: AP-ANT-45, Power Setting: 21, Duty Cycle (%): 100



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	5258.56	87.75	3.65	-11.29	80.11	Fundamental	Vertical	101	0	--	--	
2	7013.31	53.24	4.18	-7.42	50.00	Peak (NRB)	Vertical	151	0	--	--	Pass
3	10527.34	50.43	5.42	-4.18	51.67	Peak (NRB)	Vertical	151	0	--	--	Pass

Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

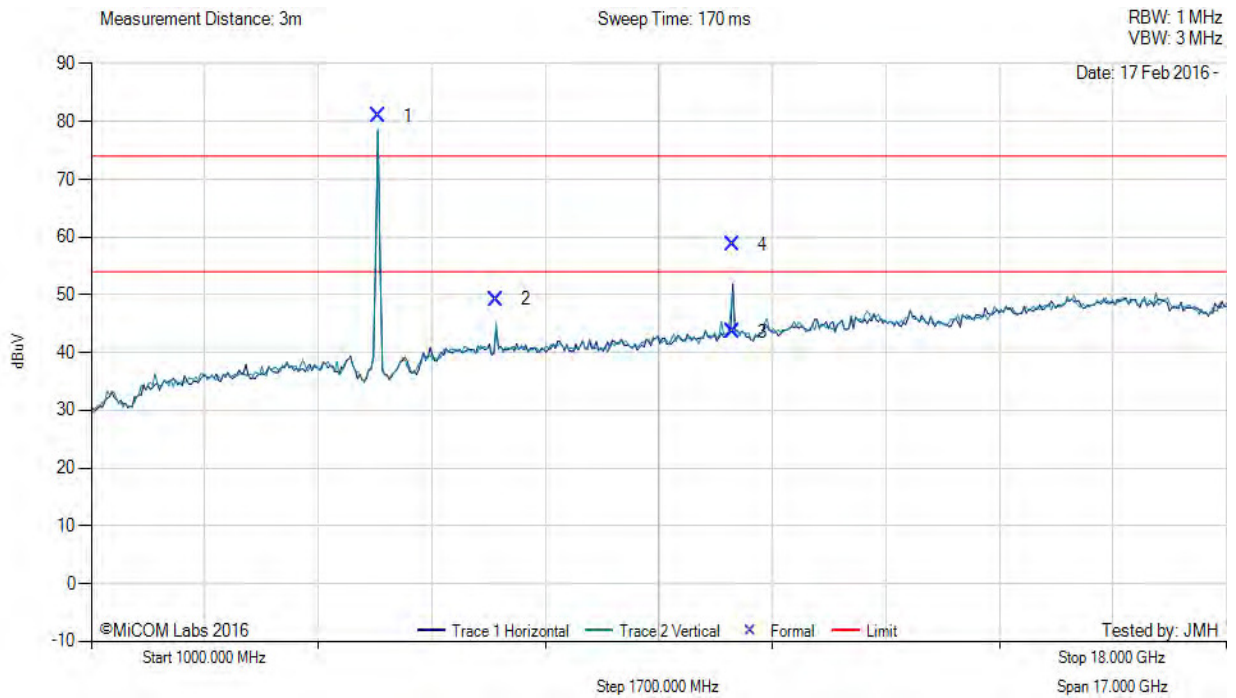


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 181 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5300.00 MHz, Antenna: AP-ANT-45, Power Setting: 21, Duty Cycle (%): 100



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	5294.39	88.24	3.78	-11.12	80.90	Fundamental	Horizontal	101	1	--	--	
2	7066.63	52.36	4.18	-7.34	49.20	Peak (NRB)	Vertical	151	2	--	--	Pass
3	10600.52	41.87	5.58	-3.93	43.52	Max Avg	Horizontal	151	358	54.0	-10.5	Pass
4	10600.52	57.08	5.58	-3.93	58.73	Max Peak	Horizontal	151	358	74.0	-15.3	Pass

Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

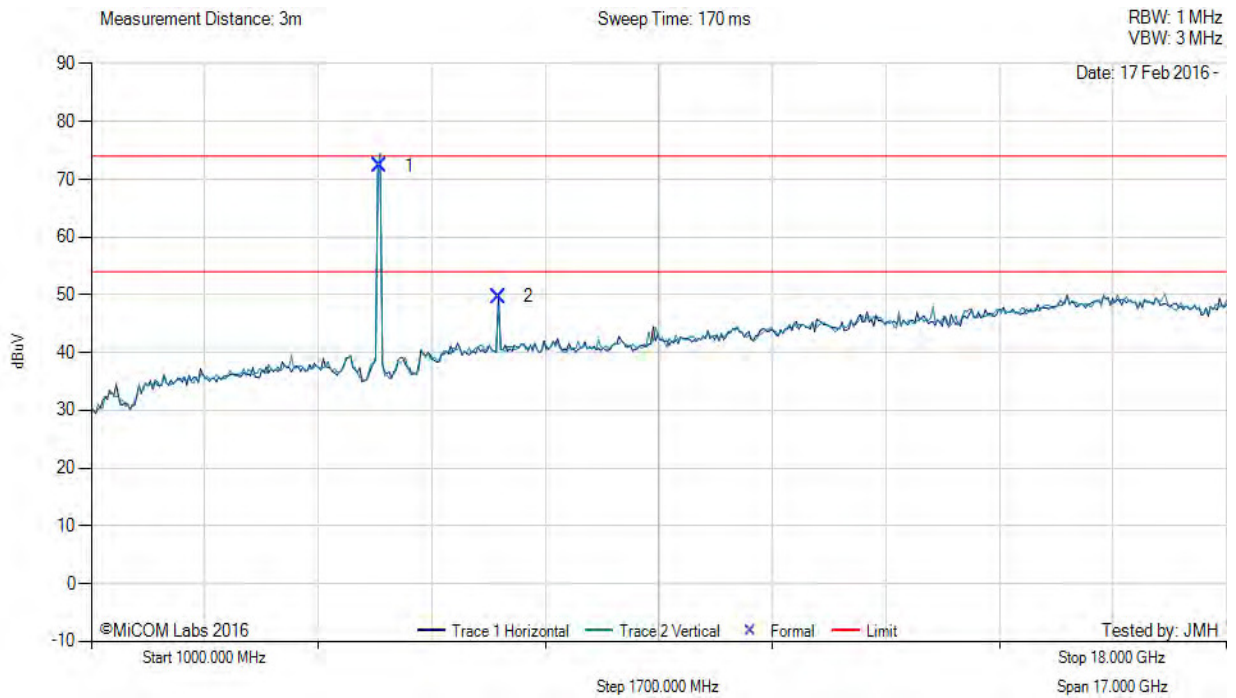


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 182 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-45, Power Setting: 17, Duty Cycle (%): 100



Num	Frequency MHz	Raw dB μ V	Cable Loss	AF dB	Level dB μ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB μ V/m	Margin dB	Pass /Fail
1	5317.95	79.67	3.75	-11.07	72.35	Fundamental	Vertical	151	0	--	--	
2	7093.35	52.81	4.23	-7.33	49.71	Peak (NRB)	Horizontal	151	0	--	--	Pass

Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

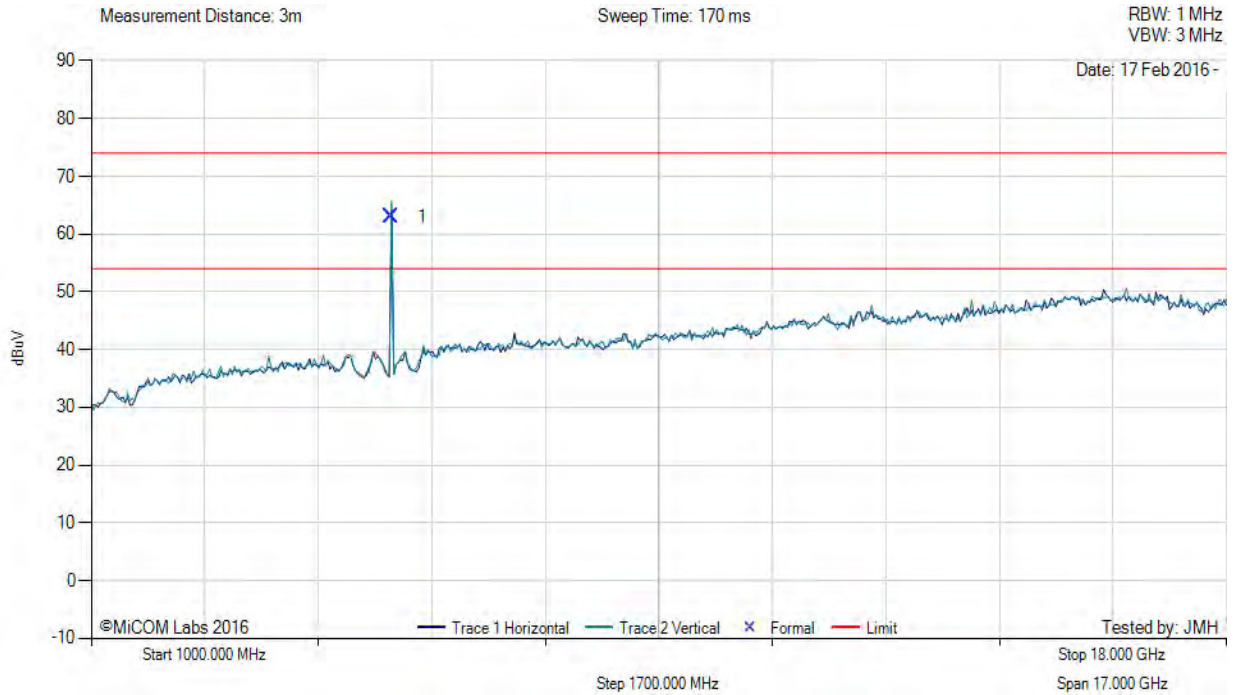


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 183 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-45, Power Setting: 18, Duty Cycle (%): 100



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	5497.43	70.47	3.73	-11.17	63.03	Fundamental	Vertical	151	1	--	--	

Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 184 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5580.00 MHz, Antenna: AP-ANT-45, Power Setting: 21, Duty Cycle (%): 100



Num	Frequency MHz	Raw dB μ V	Cable Loss	AF dB	Level dB μ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB μ V/m	Margin dB	Pass /Fail
1	5578.72	86.13	3.80	-11.20	78.73	Fundamental	Vertical	151	0	--	--	
2	11159.57	37.63	5.85	-4.07	39.41	Max Avg	Vertical	128	30	54.0	-14.6	Pass
3	11159.57	51.91	5.85	-4.07	53.69	Max Peak	Vertical	128	30	74.0	-20.3	Pass

Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

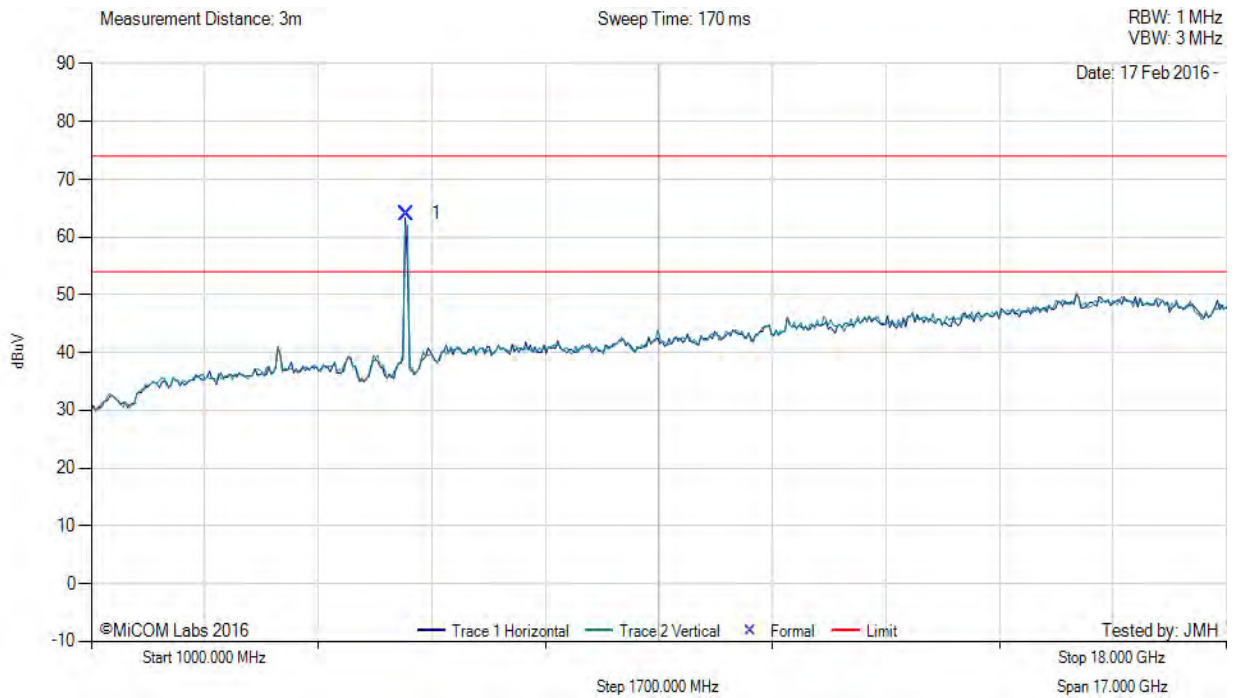


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 185 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5720.00 MHz, Antenna: AP-ANT-45, Power Setting: 21, Duty Cycle (%): 100



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	5714.27	70.97	3.82	-10.76	64.03	Fundamental	Horizontal	101	0	--	--	

Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



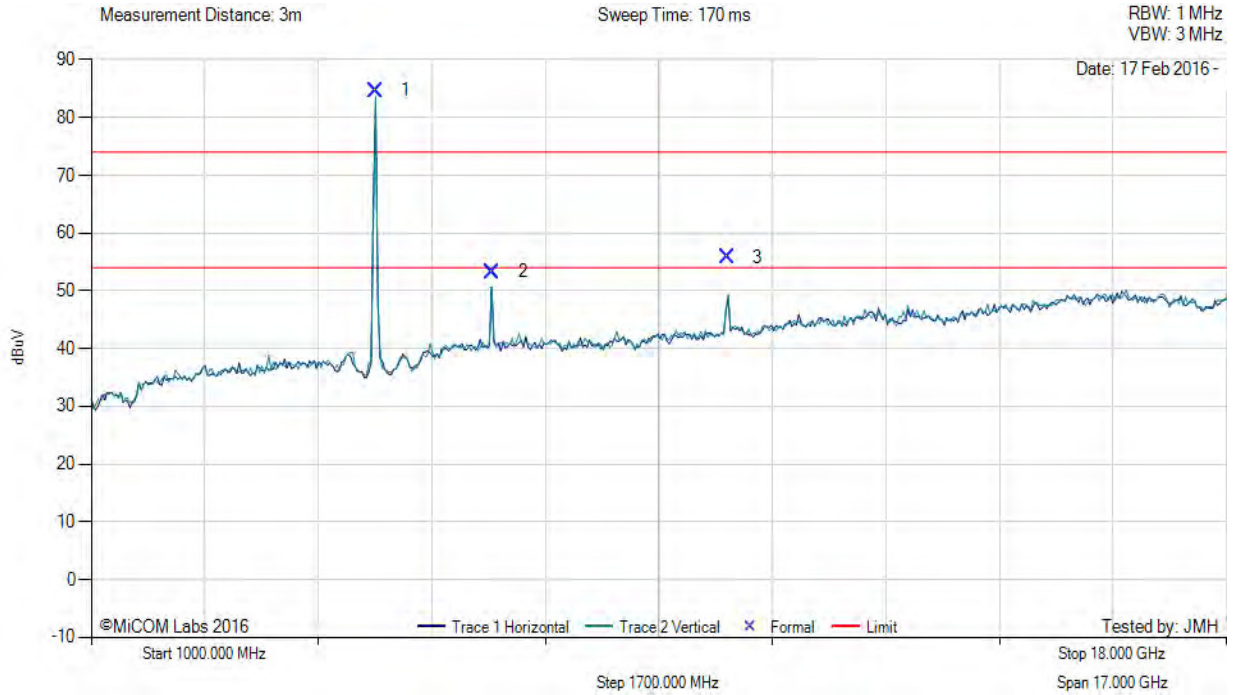
Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 186 of 294

A.1.1.7. AP-ANT-48



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5260.00 MHz, Antenna: AP-ANT-48, Power Setting: 21, Duty Cycle (%): 100



Num	Frequency MHz	Raw dB μ V	Cable Loss	AF dB	Level dB μ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB μ V/m	Margin dB	Pass /Fail
1	5254.31	92.33	3.64	-11.32	84.65	Fundamental	Vertical	151	1	--	--	
2	7013.22	56.54	4.18	-7.42	53.30	Peak (NRB)	Horizontal	151	1	--	--	Pass
3	10529.66	54.49	5.44	-4.16	55.77	Peak (NRB)	Vertical	151	21	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

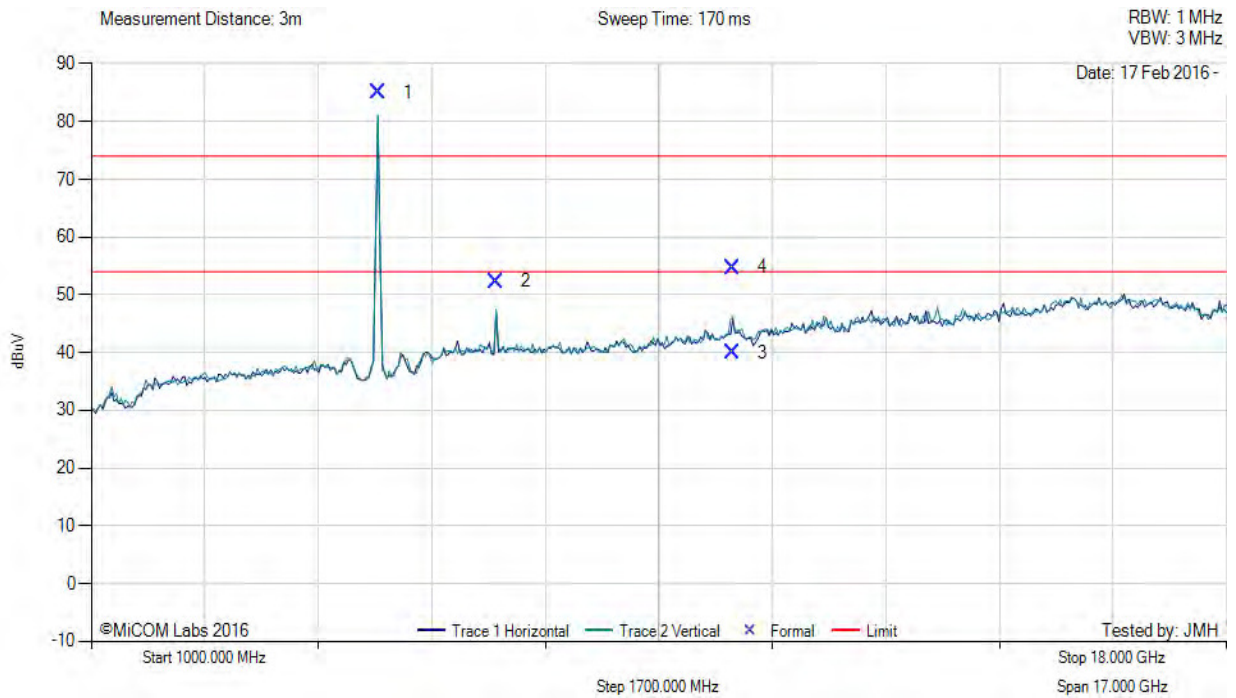


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 187 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5300.00 MHz, Antenna: AP-ANT-48, Power Setting: 21, Duty Cycle (%): 100



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5294.31	92.43	3.78	-11.12	85.09	Fundamental	Vertical	151	1	--	--	
2	7066.52	55.49	4.18	-7.34	52.33	Peak (NRB)	Vertical	151	21	--	--	Pass
3	10602.37	38.38	5.57	-3.93	40.02	Max Avg	Vertical	172	314	54.0	-14.0	Pass
4	10602.37	53.07	5.57	-3.93	54.71	Max Peak	Vertical	172	314	74.0	-19.3	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

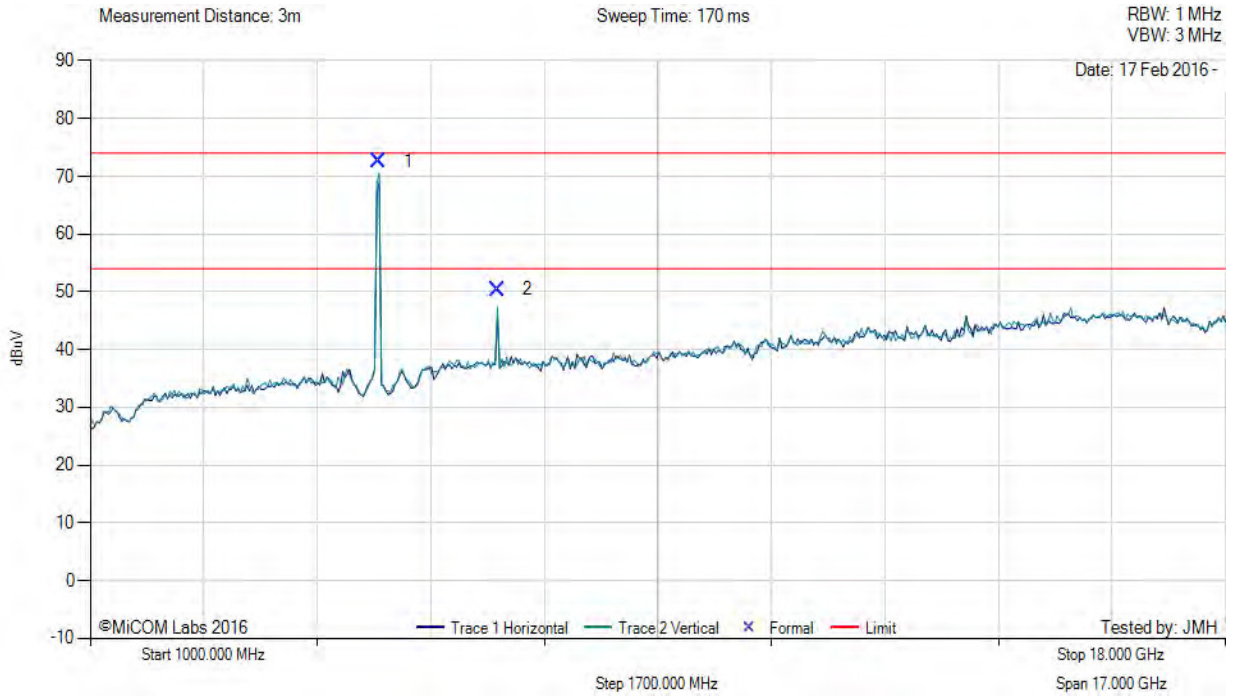


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 188 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-48, Power Setting: 15.5, Duty Cycle (%): 100



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5314.10	79.81	3.76	-11.07	72.50	Fundamental	Vertical	151	0	--	--	
2	7093.40	53.54	4.23	-7.33	50.44	Peak (NRB)	Vertical	151	0	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

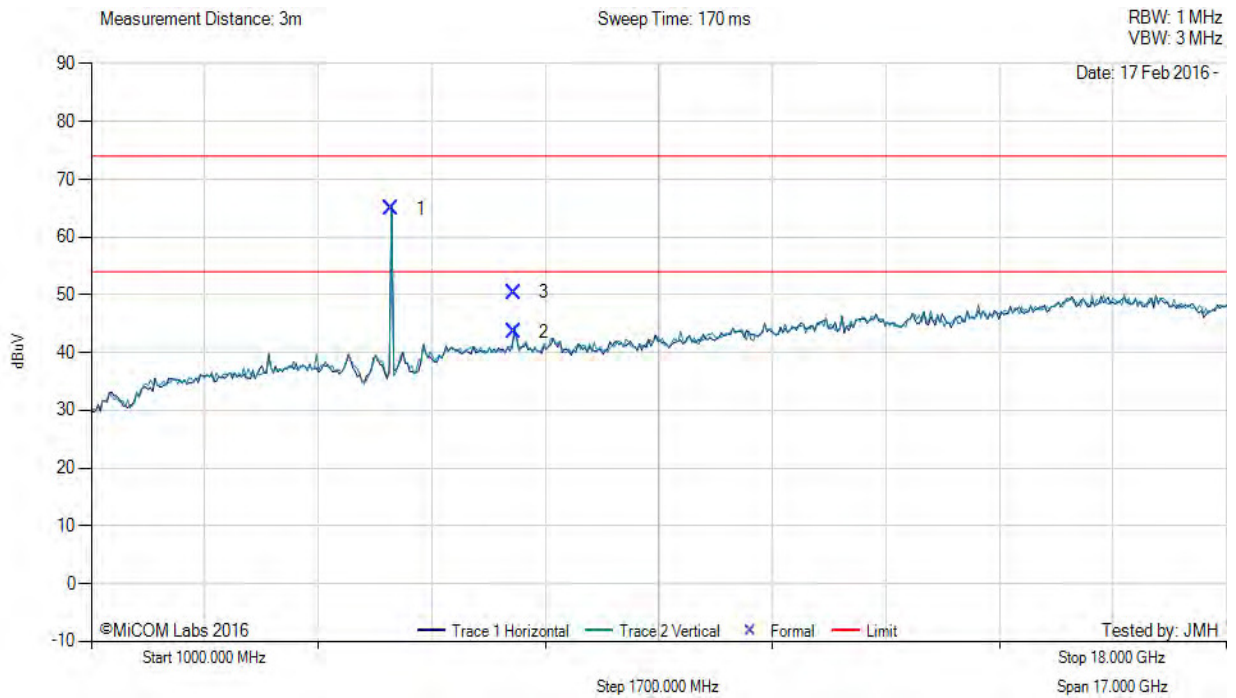


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 189 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-48, Power Setting: 18, Duty Cycle (%): 100



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5493.26	72.32	3.72	-11.18	64.86	Fundamental	Vertical	200	0	--	--	
2	7333.23	46.56	4.28	-7.24	43.60	Max Avg	Vertical	150	356	54.0	-10.4	Pass
3	7333.23	53.38	4.28	-7.24	50.42	Max Peak	Vertical	150	356	74.0	-23.6	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

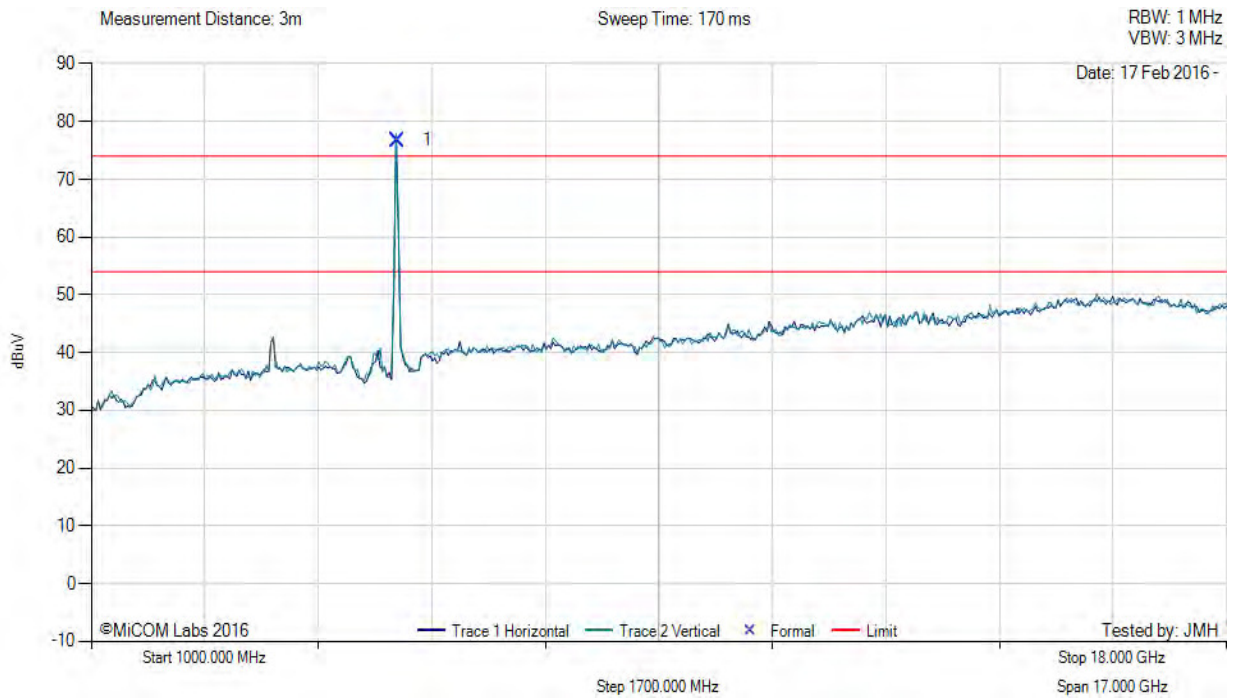


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 190 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5580.00 MHz, Antenna: AP-ANT-48, Power Setting: 21, Duty Cycle (%): 100



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	5584.89	84.12	3.79	-11.19	76.72	Fundamental	Horizontal	101	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

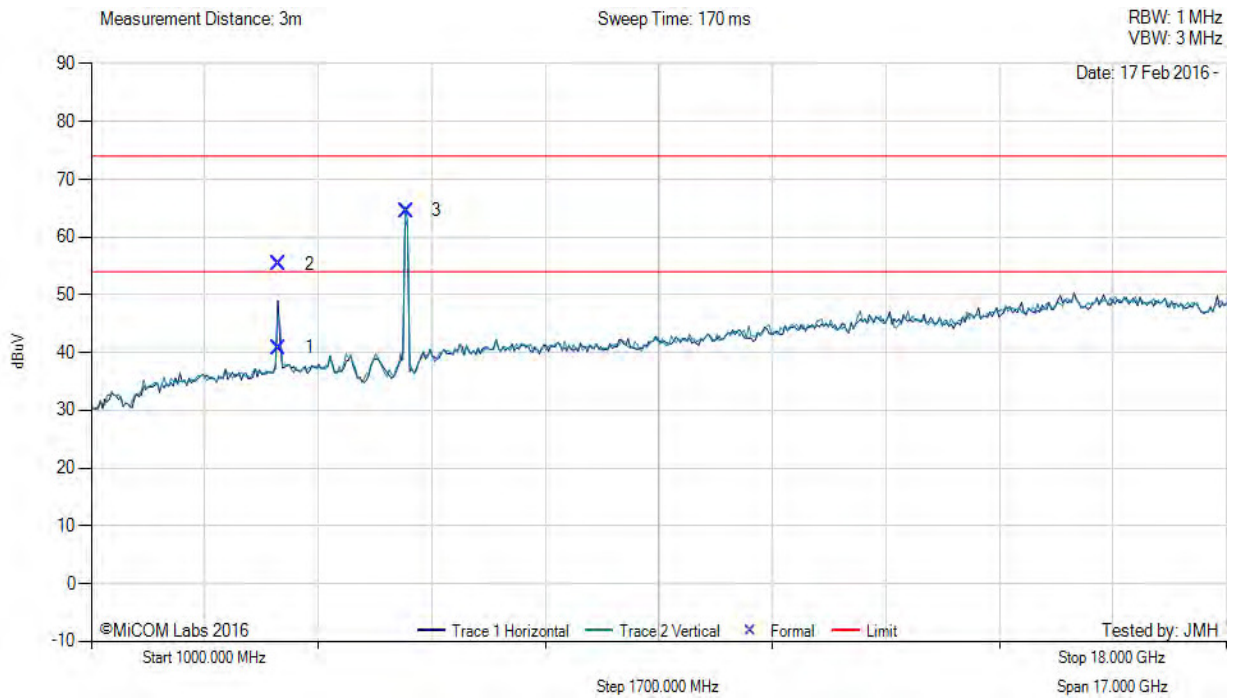


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 191 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5720.00 MHz, Antenna: AP-ANT-48, Power Setting: 21, Duty Cycle (%): 100



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	3813.71	48.44	3.24	-10.85	40.83	Max Avg	Horizontal	186	15	54.0	-13.2	Pass
2	3813.71	62.88	3.24	-10.85	55.27	Max Peak	Horizontal	186	15	74.0	-18.7	Pass
3	5721.16	71.45	3.80	-10.73	64.52	Fundamental	Vertical	101	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



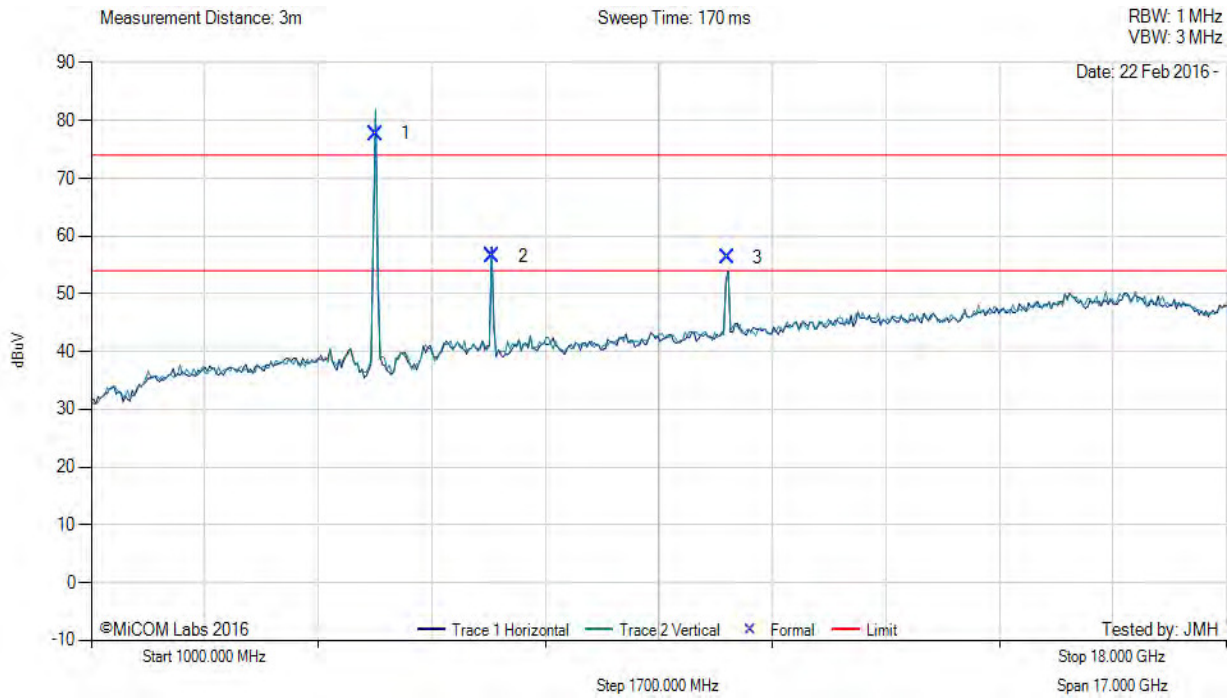
Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 192 of 294

A.1.1.8. Metal Sheet



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5260.00 MHz, Antenna: Metal Sheet, Power Setting: 21, Duty Cycle (%): 100



Num	Frequency MHz	Raw dB μ V	Cable Loss	AF dB	Level dB μ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB μ V/m	Margin dB	Pass /Fail
1	5254.87	85.38	3.64	-11.32	77.70	Fundamental	Horizontal	101	24	--	--	
2	7013.34	59.68	4.18	-7.42	56.44	Peak (NRB)	Horizontal	101	51	--	--	Pass
3	10524.05	55.03	5.43	-4.19	56.27	Peak (NRB)	Horizontal	101	51	--	--	Pass

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside table.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

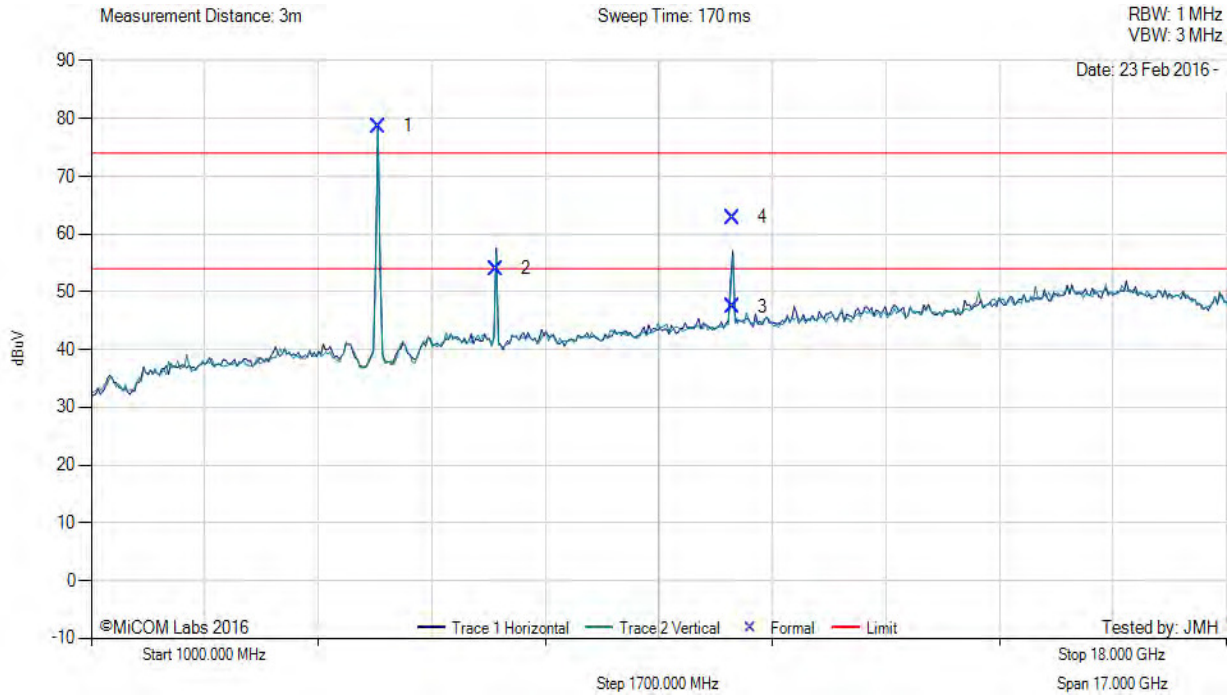


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 193 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5300.00 MHz, Antenna: Metal Sheet, Power Setting: 21, Duty Cycle (%): 100



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	5303.61	85.94	3.80	-11.08	78.66	Fundamental	Horizontal	153	37	--	--	
2	7066.73	57.12	4.18	-7.34	53.96	Peak (NRB)	Horizontal	148	0	--	--	Pass
3	10603.88	45.77	5.56	-3.92	47.41	Max Avg	Horizontal	185	277	54.0	-6.6	Pass
4	10603.88	61.22	5.56	-3.92	62.86	Max Peak	Horizontal	185	277	74.0	-11.1	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

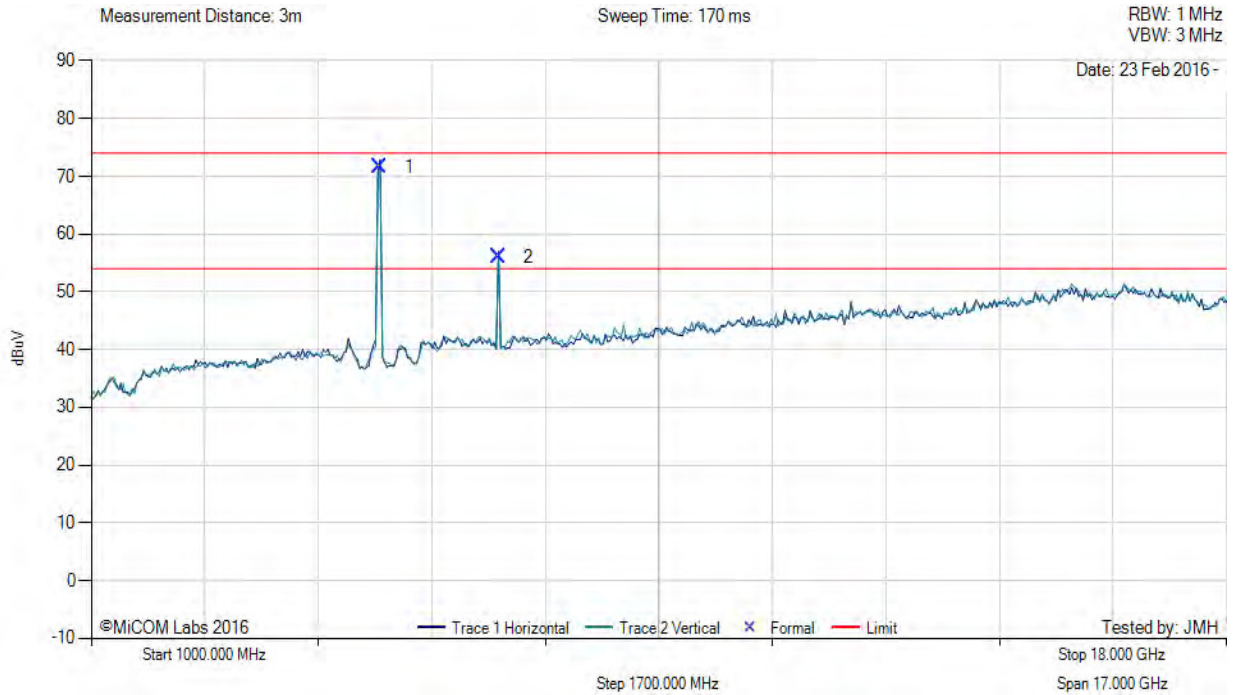


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 194 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: Metal Sheet, Power Setting: 16.5, Duty Cycle (%): 100



Num	Frequency MHz	Raw dB μ V	Cable Loss	AF dB	Level dB μ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB μ V/m	Margin dB	Pass /Fail
1	5314.51	78.95	3.76	-11.07	71.64	Fundamental	Horizontal	101	19	--	--	
2	7093.34	59.06	4.23	-7.33	55.96	Peak (NRB)	Horizontal	101	68	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 195 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: Metal Sheet, Power Setting: 18, Duty Cycle (%): 100



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	5493.66	72.60	3.72	-11.17	65.15	Fundamental	Horizontal	101	25	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

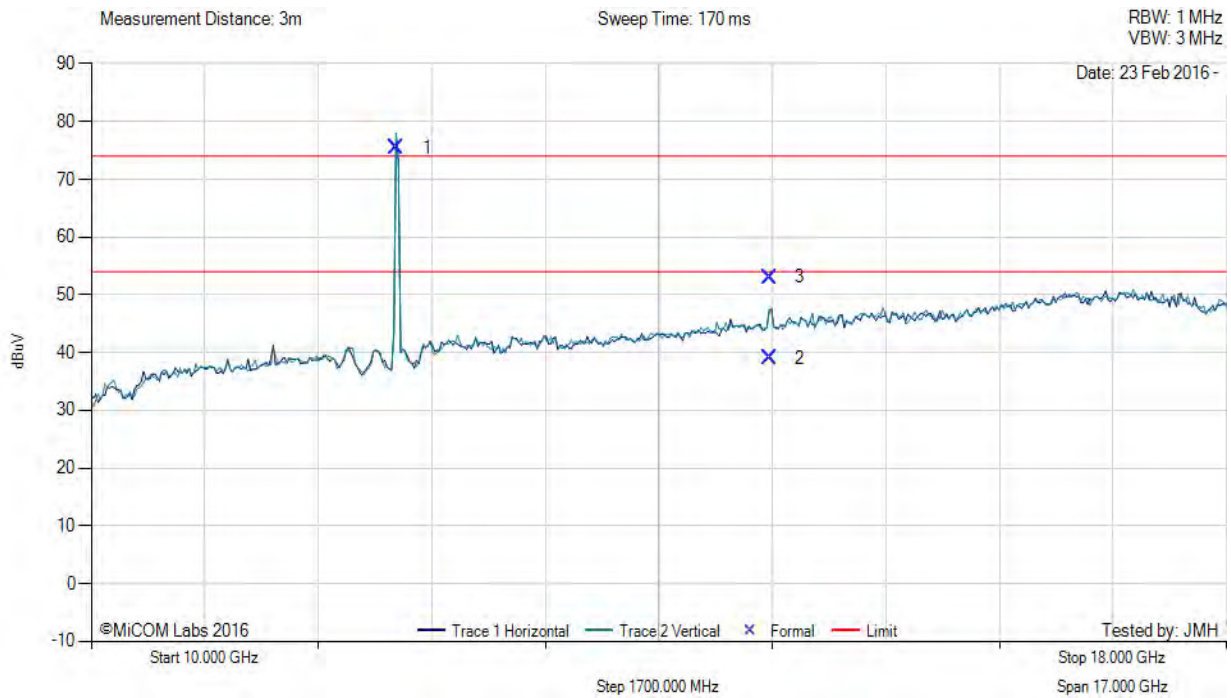


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 196 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5580.00 MHz, Antenna: Metal Sheet, Power Setting: 21, Duty Cycle (%): 100



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	5574.55	82.78	3.81	-11.21	75.38	Fundamental	Horizontal	101	18	--	--	
2	11161.20	37.25	5.81	-4.07	38.99	Max Avg	Horizontal	150	307	54.0	-15.0	Pass
3	11161.20	51.28	5.81	-4.07	53.02	Max Peak	Horizontal	150	307	74.0	-21.0	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 197 of 294



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5720.00 MHz, Antenna: Metal Sheet, Power Setting: 21, Duty Cycle (%): 100



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	5725.13	69.89	3.79	-10.72	62.96	Fundamental	Horizontal	151	30	--	--	
2	11449.54	43.23	5.44	-4.92	43.75	Max Avg	Horizontal	169	55	54.0	-10.3	Pass
3	11449.54	57.61	5.44	-4.92	58.13	Max Peak	Horizontal	169	55	74.0	-15.9	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



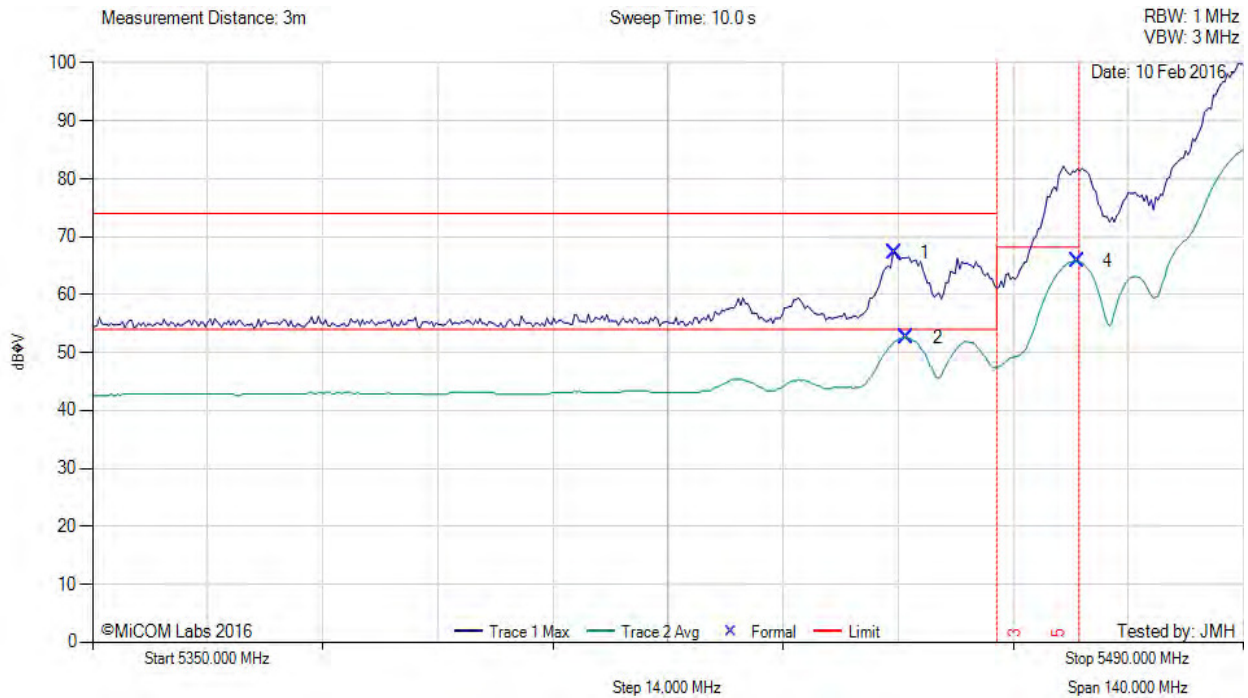
A.1.2. Restricted Band and Band-Edge Emissions

A.1.2.1. AP-ANT-13B



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-13B, Power Setting: 19, Duty Cycle (%): 100



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	5447.54	29.22	3.77	34.30	67.29	Max Peak	Horizontal	153	30	74.0	-6.7	Pass
2	5449.04	14.60	3.77	34.30	52.67	Max Avg	Horizontal	153	30	54.0	-1.3	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.79	27.72	3.479	34.32	65.83	Max Avg	Horizontal	153	30	68.2*	-2.4	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

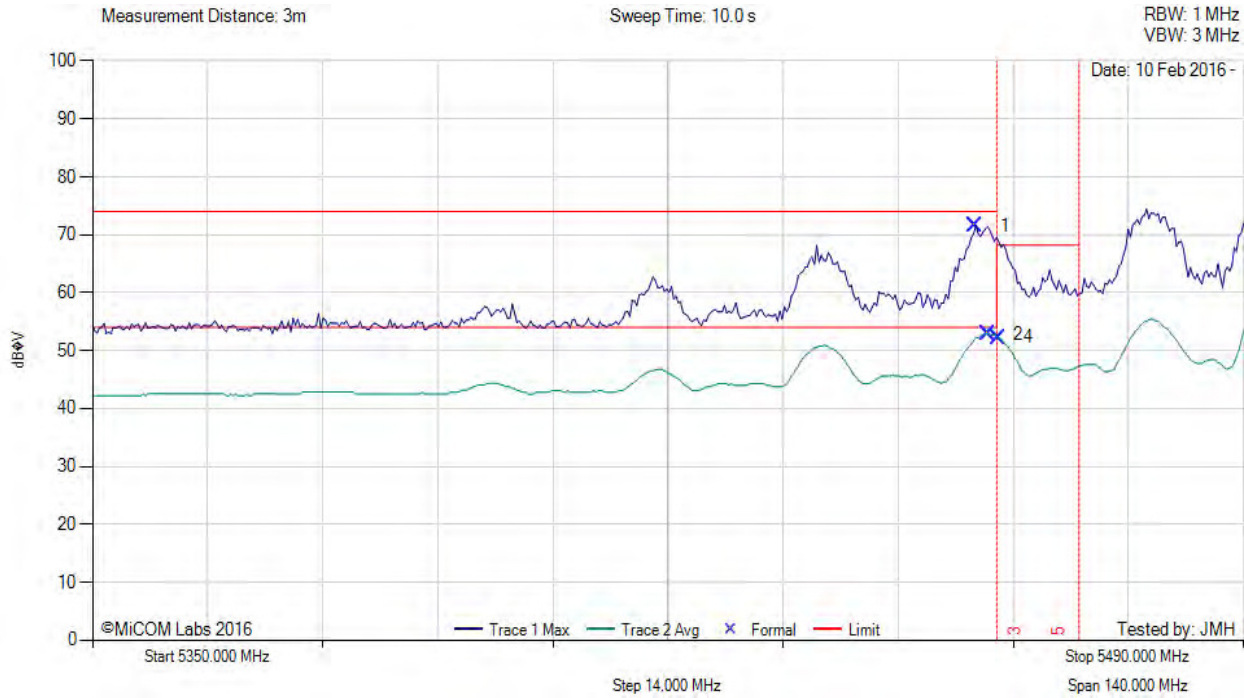


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 199 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5530.00 MHz, Antenna: AP-ANT-13B, Power Setting: 13.5, Duty Cycle (%): 100



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	5457.35	33.44	3.80	34.30	71.54	Max Peak	Horizontal	153	30	74.0	-2.5	Pass
2	5458.90	14.79	3.79	34.31	52.89	Max Avg	Horizontal	153	30	54.0	-1.1	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5460.20	14.13	3.79	34.31	52.23	Max Avg	Horizontal	153	30	68.2*	-16.0	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

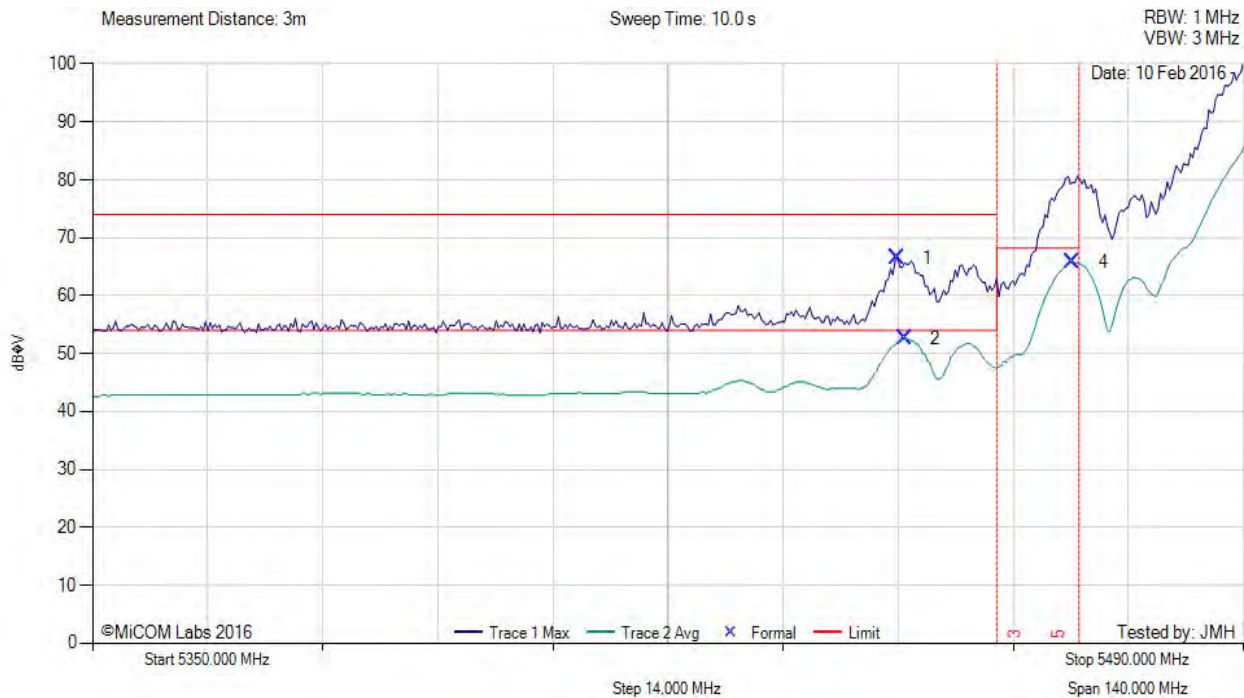


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 200 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5500.00 MHz, Antenna: AP-ANT-13B, Power Setting: 19, Duty Cycle (%): 100



Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	PoI	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5447.82	28.45	3.77	34.30	66.52	Max Peak	Horizontal	153	30	74.0	-7.5	Pass
2	5448.80	14.49	3.77	34.30	52.56	Max Avg	Horizontal	153	30	54.0	-1.4	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.24	27.70	3.79	34.32	65.81	Max Avg	Horizontal	153	30	68.2*	-2.4	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

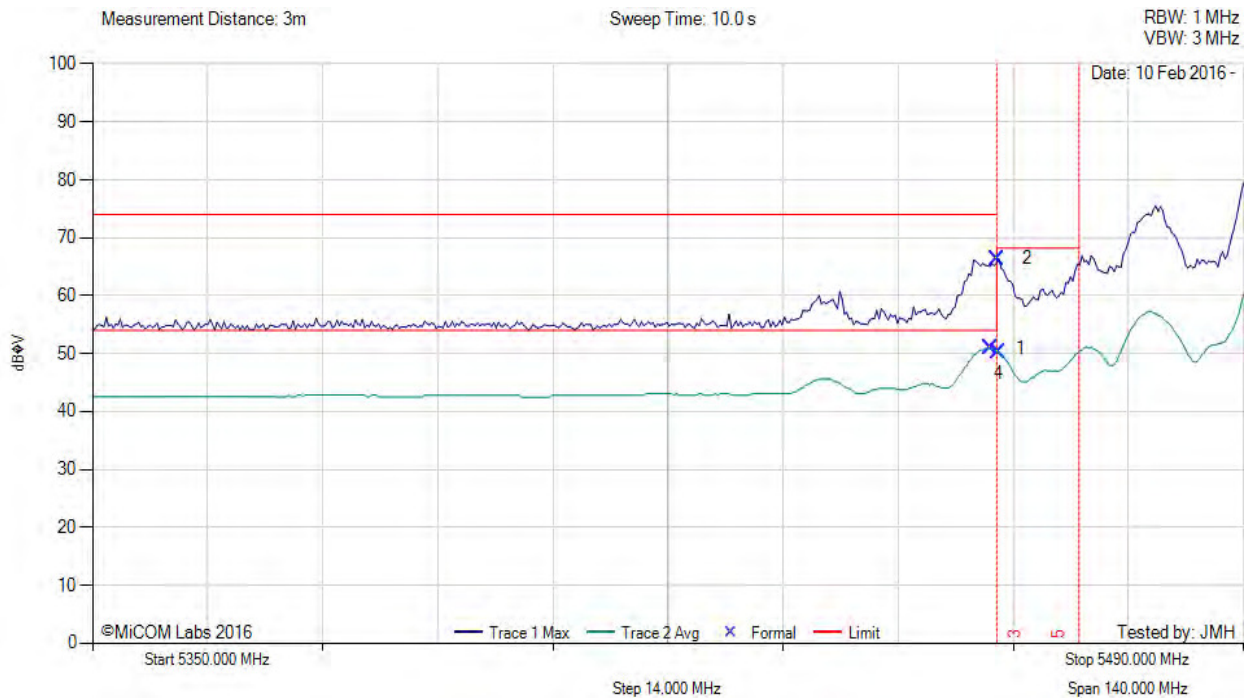


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 201 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5510.00 MHz, Antenna: AP-ANT-13B, Power Setting: 15.5, Duty Cycle (%): 100



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	5459.18	12.80	3.79	34.31	50.90	Max Avg	Horizontal	153	30	54.0	-3.1	Pass
2	5459.98	28.27	3.79	34.31	66.37	Max Peak	Horizontal	153	30	74.0	-7.6	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5460.26	12.11	3.79	34.31	50.21	Max Avg	Horizontal	153	30	68.2*	-18.0	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

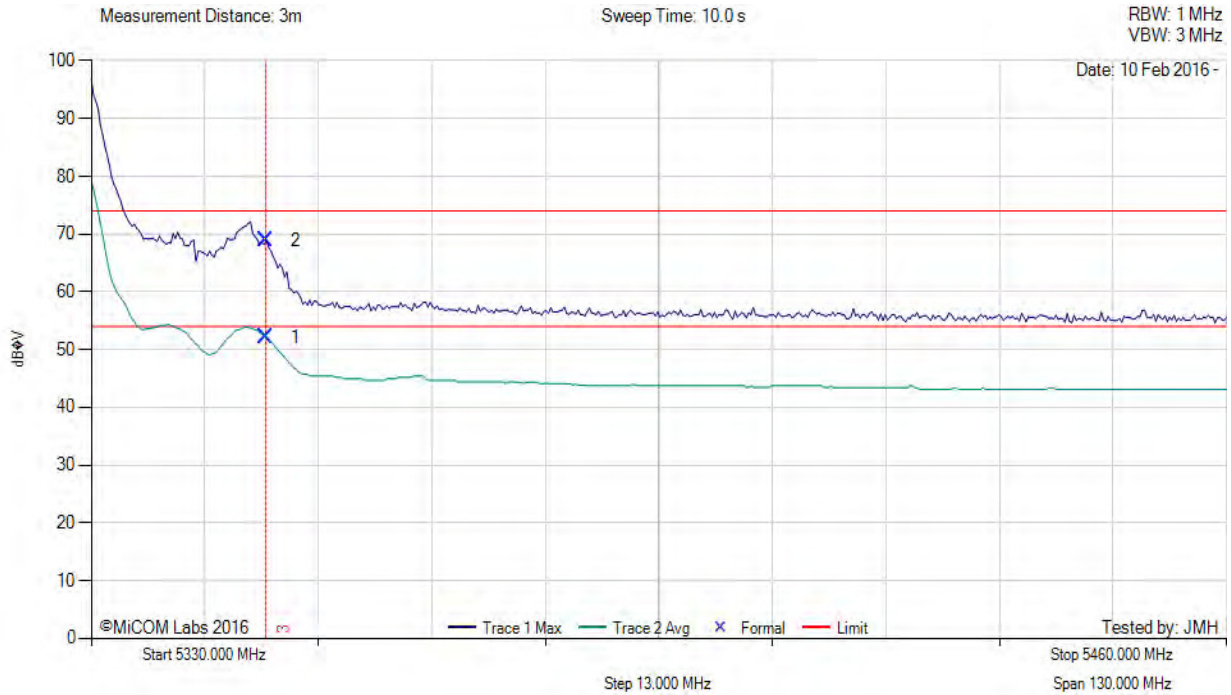


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 202 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-13B, Power Setting: 16, Duty Cycle (%): 100



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	14.00	3.70	34.51	52.21	Max Avg	Horizontal	171	317	54.0	-1.8	Pass
2	5350.00	30.72	3.70	34.51	68.93	Max Peak	Horizontal	171	317	74.0	-5.1	Pass
3	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

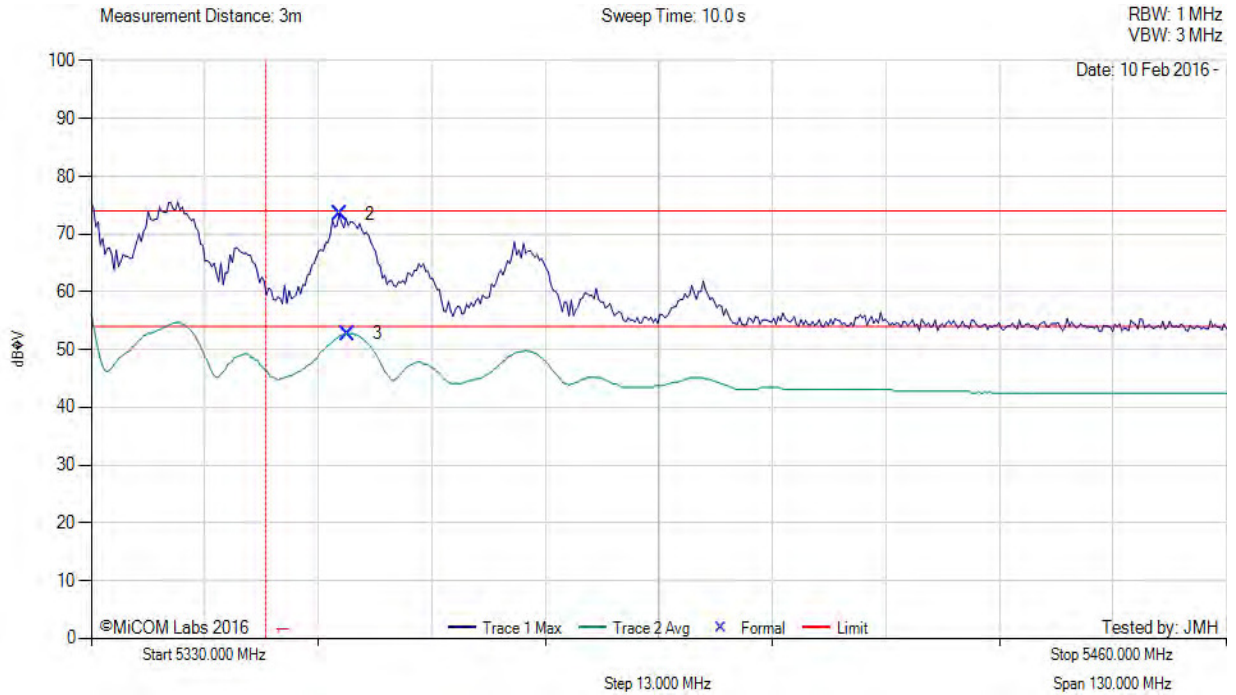


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 203 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-13B, Power Setting: 11.5, Duty Cycle (%): 100



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	5358.44	35.28	3.71	34.49	73.48	Max Peak	Horizontal	171	317	74.0	-0.5	Pass
3	5359.34	14.56	3.71	34.49	52.76	Max Avg	Horizontal	171	317	54.0	-1.2	Pass
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

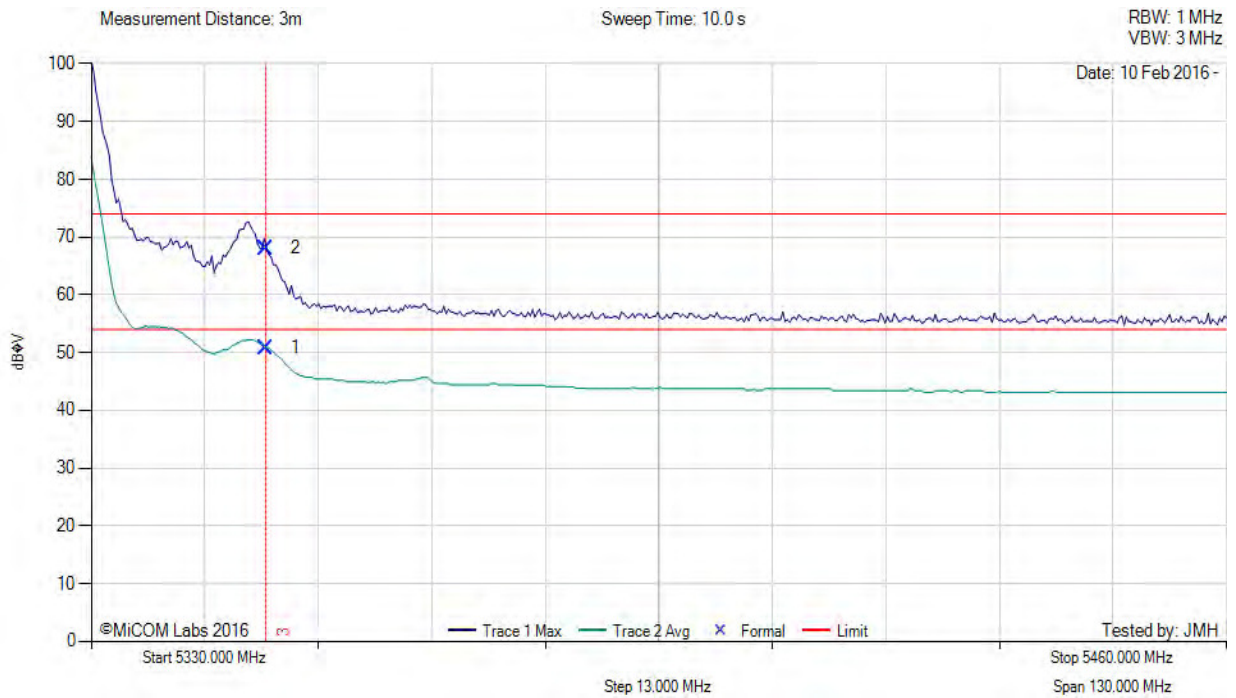


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 204 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5320.00 MHz, Antenna: AP-ANT-13B, Power Setting: 16, Duty Cycle (%): 100



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	12.64	3.70	34.51	50.85	Max Avg	Horizontal	171	317	54.0	-3.2	Pass
2	5350.00	29.88	3.70	34.51	68.09	Max Peak	Horizontal	171	317	74.0	-5.9	Pass
3	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

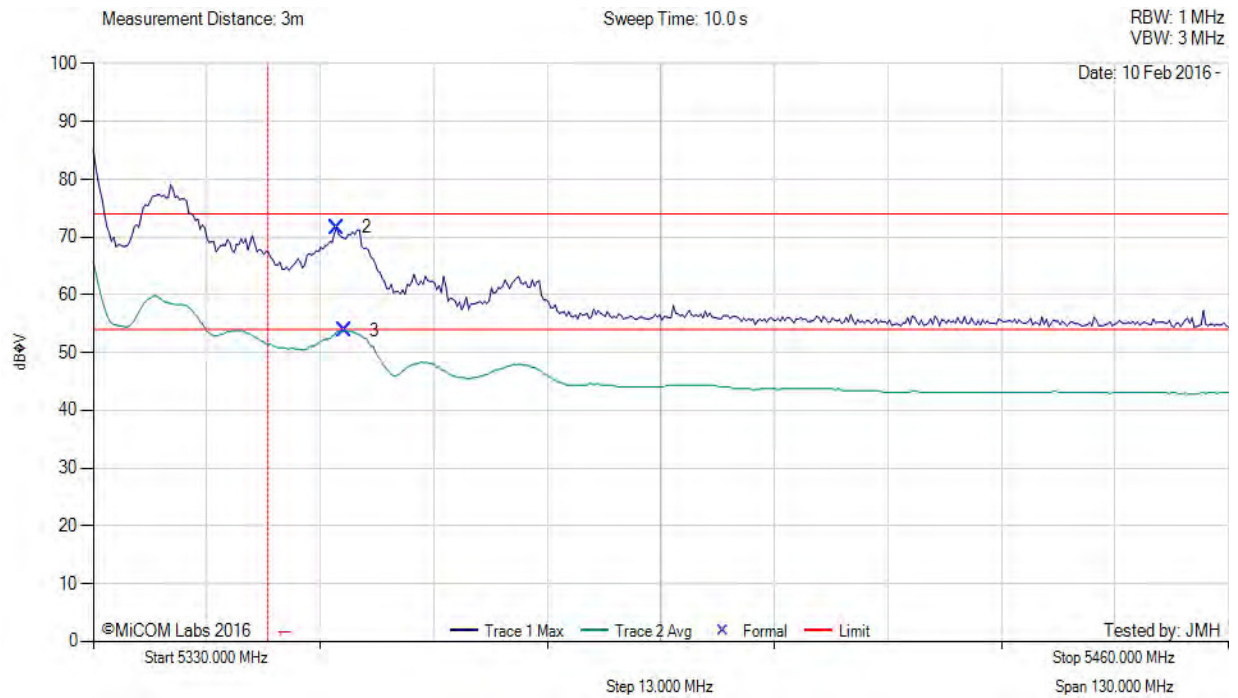


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 205 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5310.00 MHz, Antenna: AP-ANT-13B, Power Setting: 15.5, Duty Cycle (%): 100



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	5357.92	33.43	3.71	34.49	71.63	Max Peak	Horizontal	171	317	74.0	-2.4	Pass
3	5358.82	15.57	3.71	34.49	53.77	Max Avg	Horizontal	171	317	54.0	-0.2	Pass
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



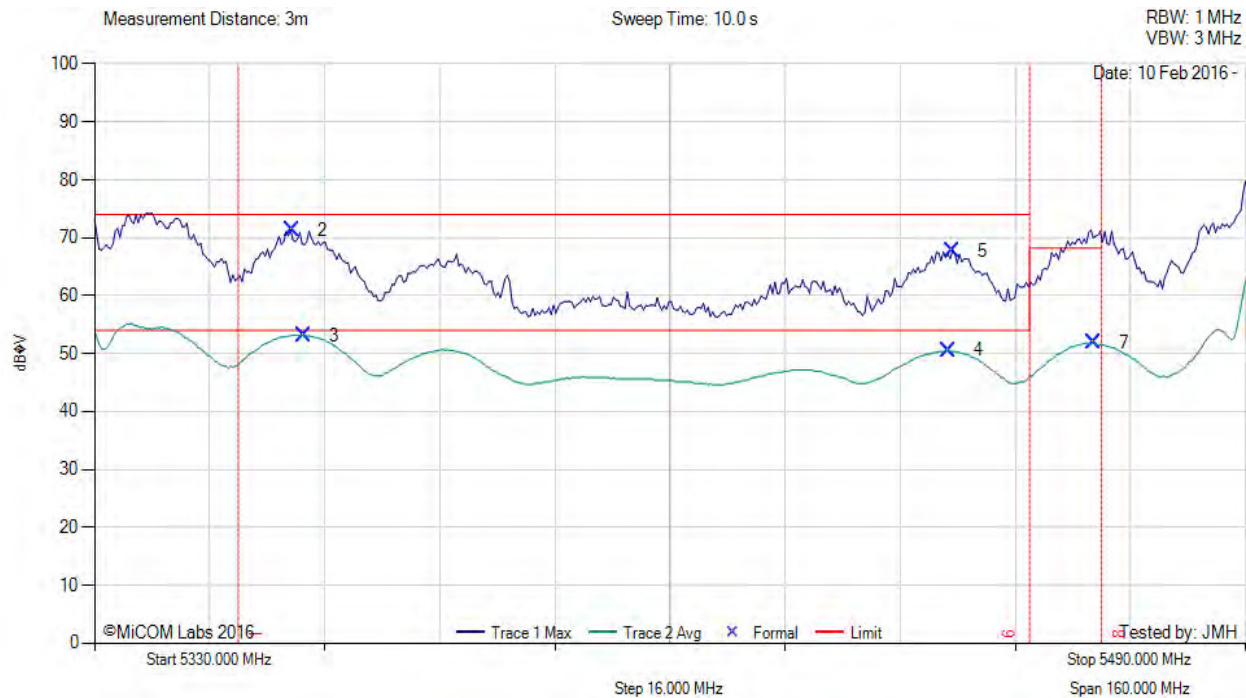
Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 206 of 294

80 + 80



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-13B, Power Setting: 13.5, Duty Cycle (%): 100



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	--	--	--	--	Restricted Band	--	--	--	--	--	--
2	5357.41	33.15	3.71	34.49	71.35	Max Peak	Horizontal	171	317	74.0	-2.7	Pass
3	5359.08	14.88	3.71	34.49	53.08	Max Avg	Horizontal	171	317	54.0	-0.9	Pass
4	5448.63	12.55	3.77	34.30	50.62	Max Avg	Horizontal	171	317	54.0	-3.4	Pass
5	5449.27	29.68	3.77	34.30	67.75	Max Peak	Horizontal	171	317	74.0	-5.3	Pass
6	5460.00	--	--	--	--	Band-Edge	--	--	--	--	--	--
7	5468.84	13.79	3.79	34.32	51.90	Max Avg	Horizontal	153	30	68.2*	-16.3	Pass
8	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

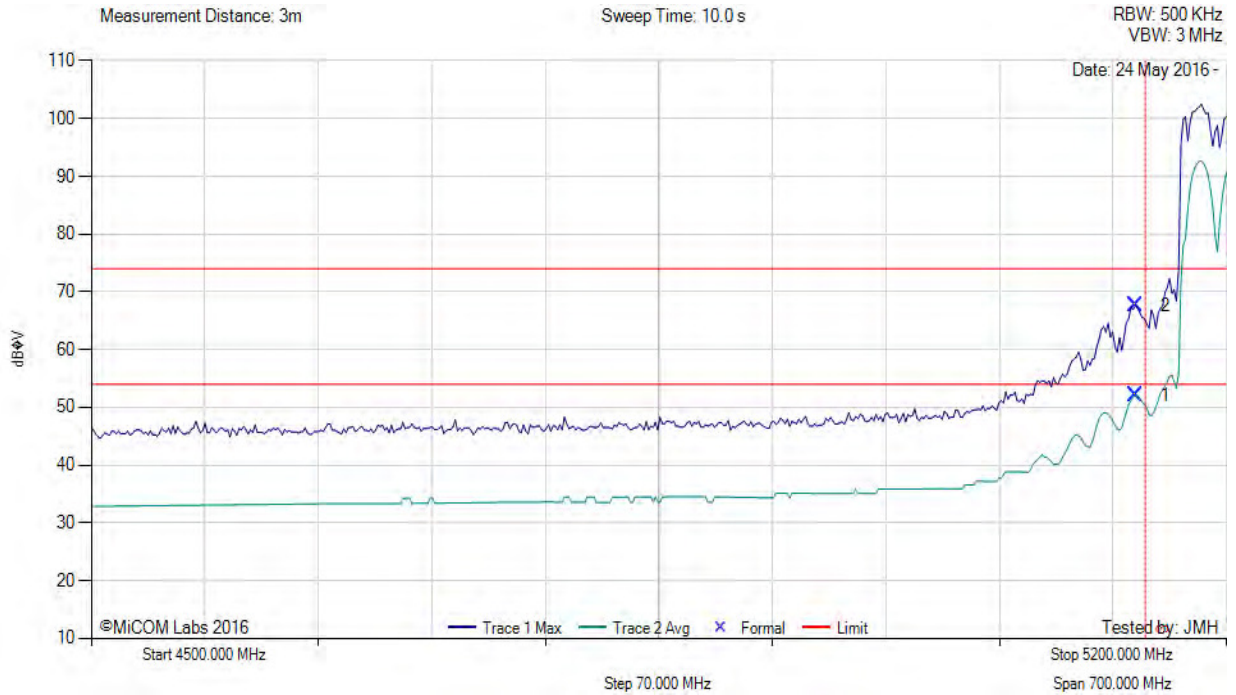


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 207 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-13B, Power Setting: 14, Duty Cycle (%): 91



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	14.28	3.70	34.12	52.10	Max Avg	Vertical	200	357	54.0	-1.9	Pass
2	5143.89	29.86	3.70	34.12	67.68	Max Peak	Vertical	200	357	74.0	-6.3	Pass
3	5150.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

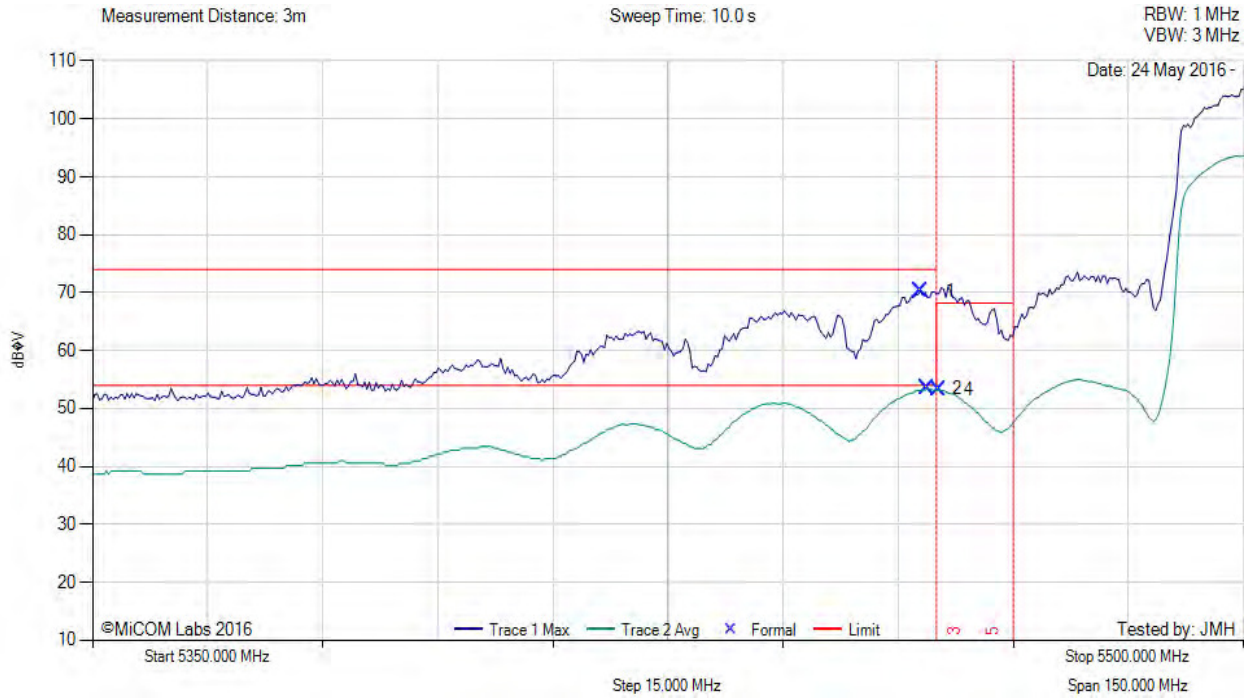


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 208 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5570.00 MHz, Antenna: AP-ANT-13B, Power Setting: 14.5, Duty Cycle (%): 91



Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	PoI	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5457.86	32.11	3.80	34.30	70.21	Max Peak	Vertical	199	357	74.0	-3.8	Pass
2	5458.68	15.39	3.79	34.31	53.49	Max Avg	Vertical	199	357	54.0	-0.5	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5460.32	15.10	3.79	34.31	53.20	Max Avg	Horizontal	153	30	68.2*	-15.0	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

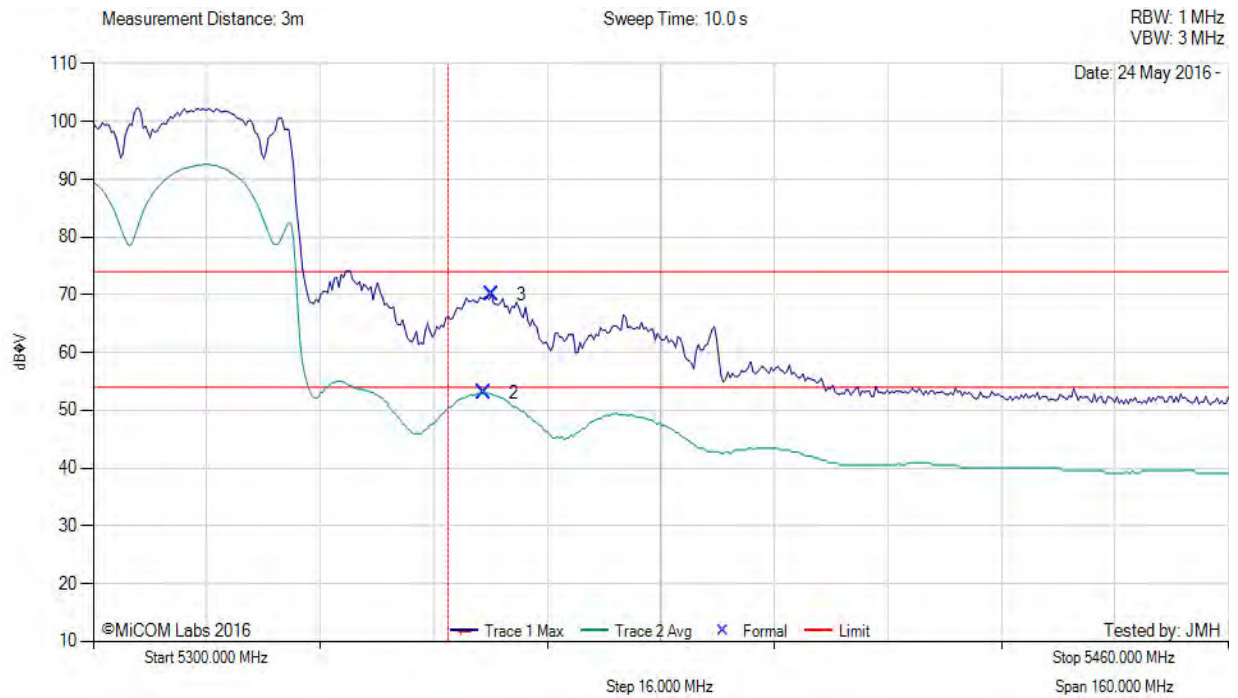


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 209 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-13B, Power Setting: 14, Duty Cycle (%): 91



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	5355.03	14.87	3.71	34.50	53.08	Max Avg	Vertical	200	357	54.0	-0.9	Pass
3	5356.07	31.83	3.71	34.50	70.04	Max Peak	Vertical	200	357	74.0	-4.0	Pass
1	5350.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

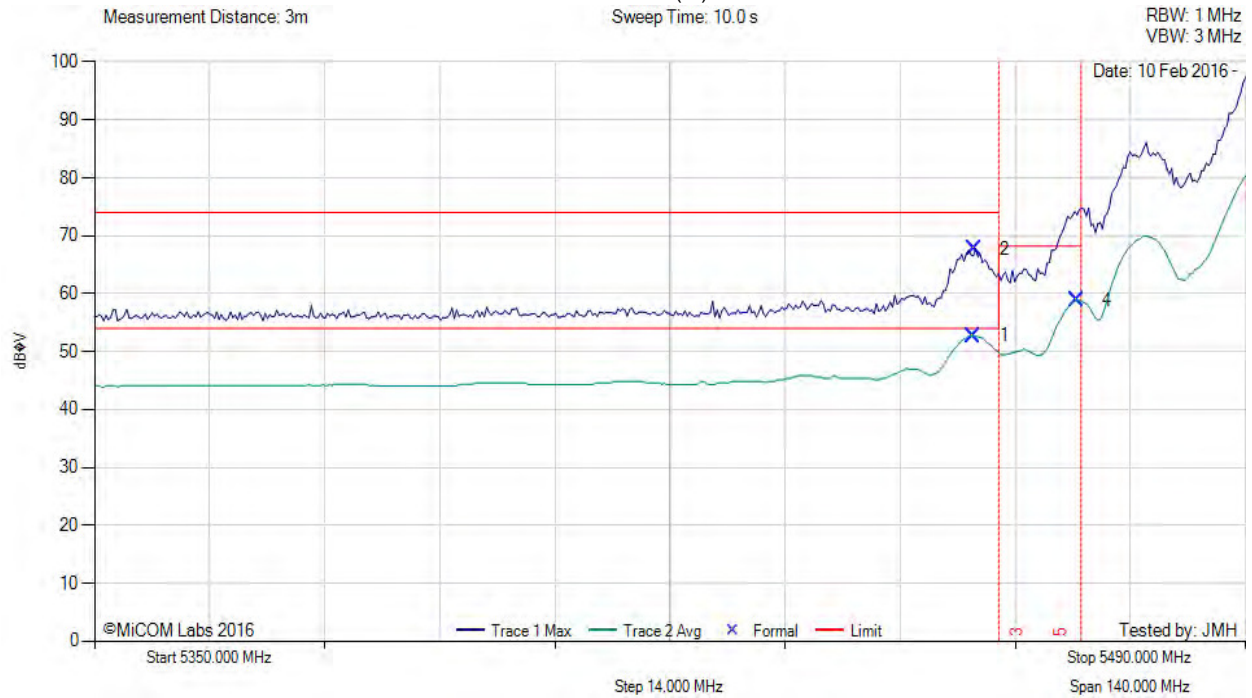


A.1.2.2. AP-ANT-19

RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: Aruba Networks AP-ANT-19, Power Setting: 18, Duty Cycle (%): 100



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	5456.93	14.68	3.80	34.30	52.78	Max Avg	Vertical	145	15	54.0	-1.2	Pass
2	5457.07	29.60	3.80	34.30	67.70	Max Peak	Vertical	145	15	74.0	-6.3	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.52	20.75	3.79	34.32	58.86	Max Avg	Horizontal	153	30	68.2*	-9.4	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 211 of 294

RESTRICTED LOWER BAND-EDGE EMISSIONS

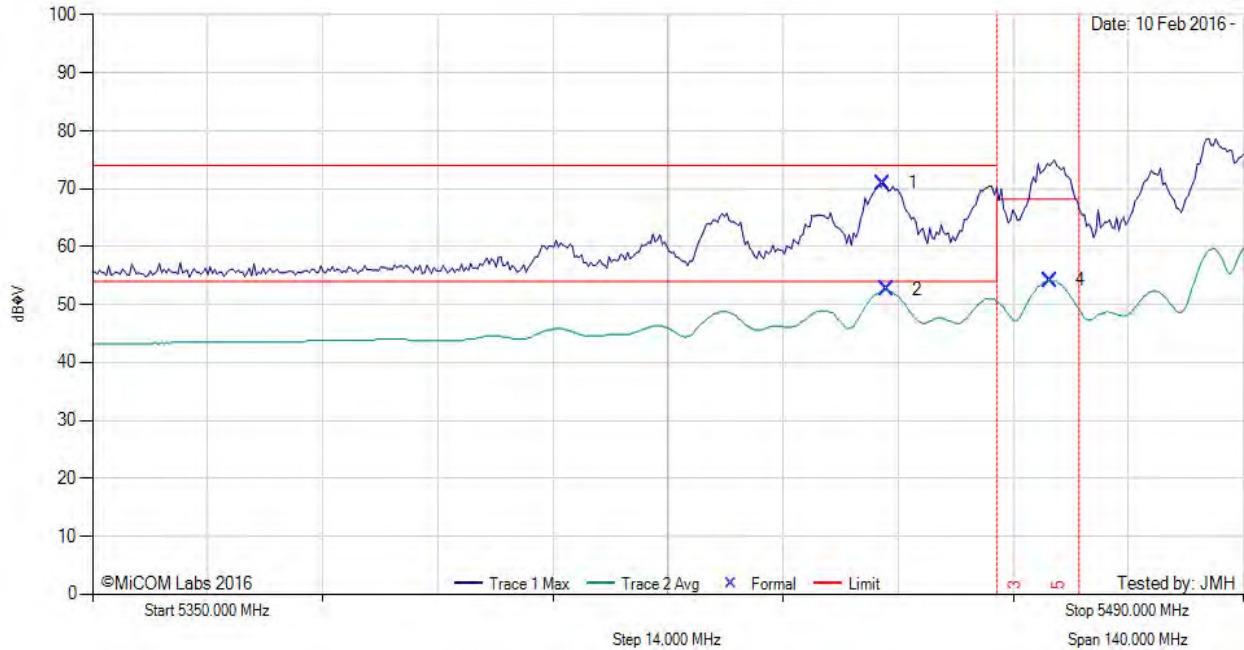


Variant: 802.11ac-80, Test Freq: 5530.00 MHz, Antenna: Aruba Networks AP-ANT-19, Power Setting: 12.5, Duty Cycle (%): 100

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz
 VBW: 3 MHz



Num	Frequency MHz	Raw dBµV	Cable Loss	AF dB	Level dBµV/m	Measurement Type	PoI	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
1	5446.13	32.93	3.76	34.30	70.99	Max Peak	Vertical	145	15	74.0	-3.0	Pass
2	5446.55	14.50	3.76	34.30	52.56	Max Avg	Vertical	145	15	54.0	-1.4	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5466.43	16.05	3.79	34.32	54.16	Max Avg	Horizontal	153	30	68.2*	-14.1	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

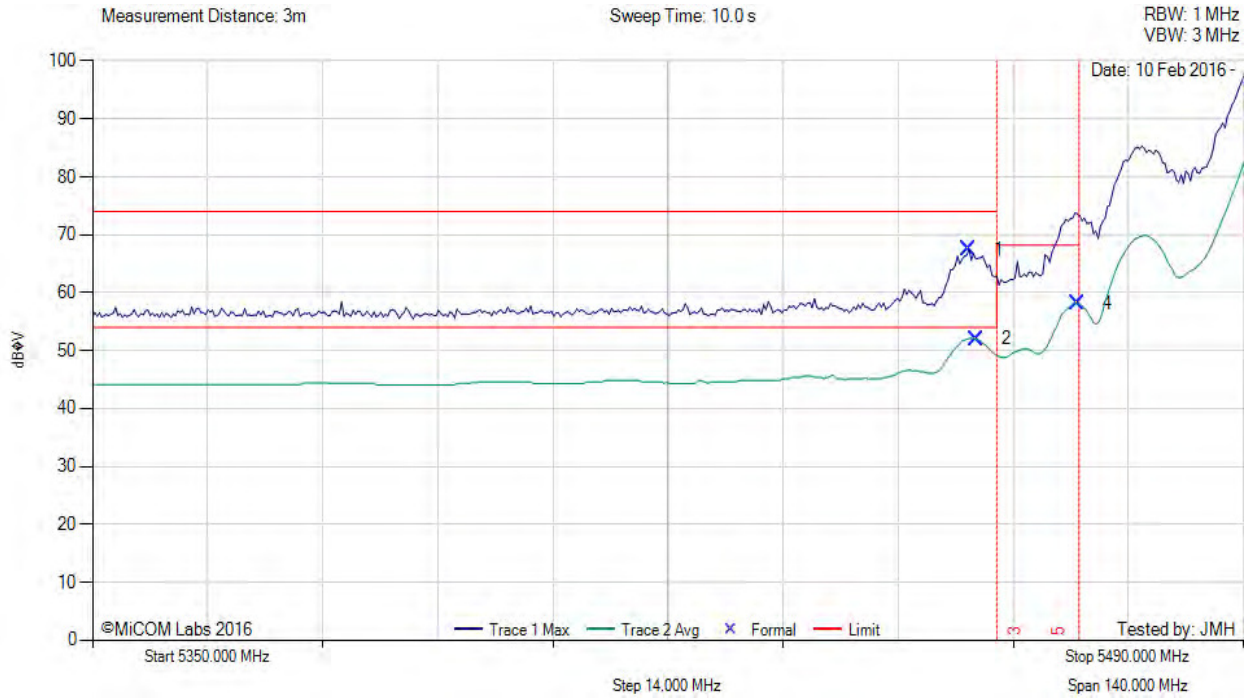


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 212 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5500.00 MHz, Antenna: AP-ANT-19, Power Setting: 18, Duty Cycle (%): 100



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	5456.51	29.37	3.80	34.30	67.47	Max Peak	Vertical	145	15	74.0	-6.5	Pass
2	5457.49	13.91	3.80	34.30	52.01	Max Avg	Vertical	145	15	54.0	-2.0	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	20.04	3.79	34.32	58.15	Max Avg	Horizontal	153	30	68.2*	-10.1	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

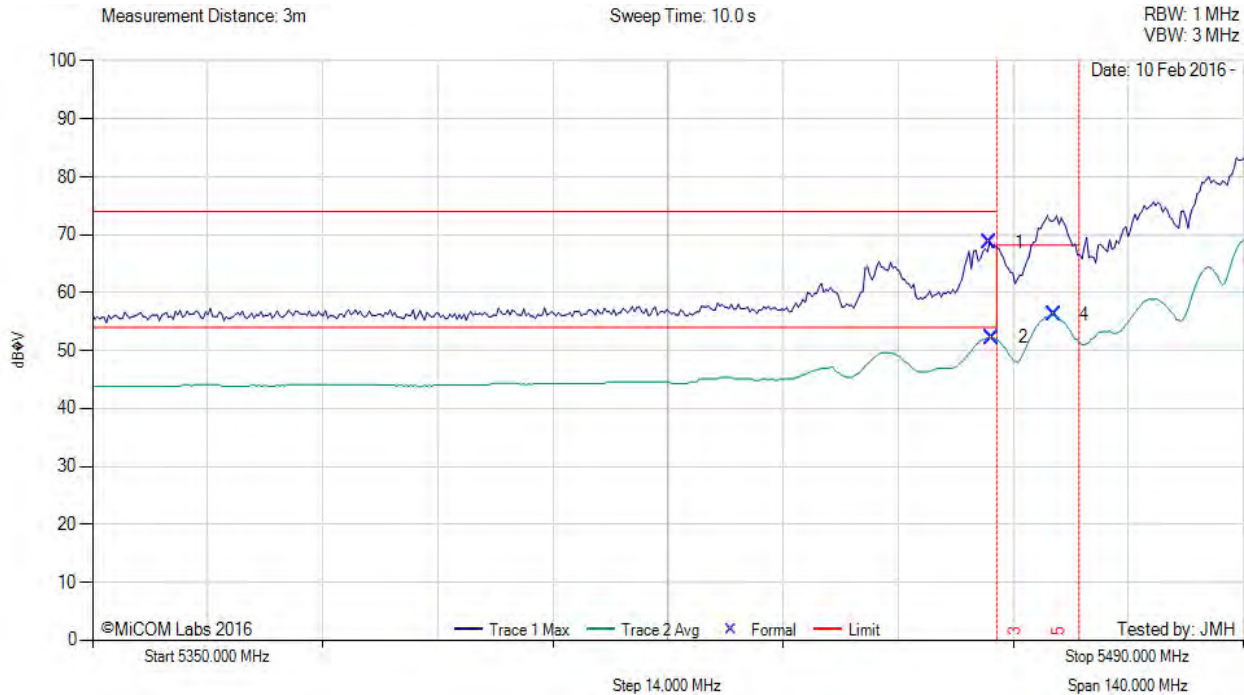


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 213 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5510.00 MHz, Antenna: AP-ANT-19, Power Setting: 15.5, Duty Cycle (%): 100



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	5459.04	30.62	3.79	34.31	68.72	Max Peak	Vertical	145	15	74.0	-5.3	Pass
2	5459.46	14.14	3.79	34.31	52.24	Max Avg	Vertical	145	15	54.0	-1.8	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5466.99	18.05	3.79	34.32	56.16	Max Avg	Horizontal	153	30	68.2*	-12.1	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

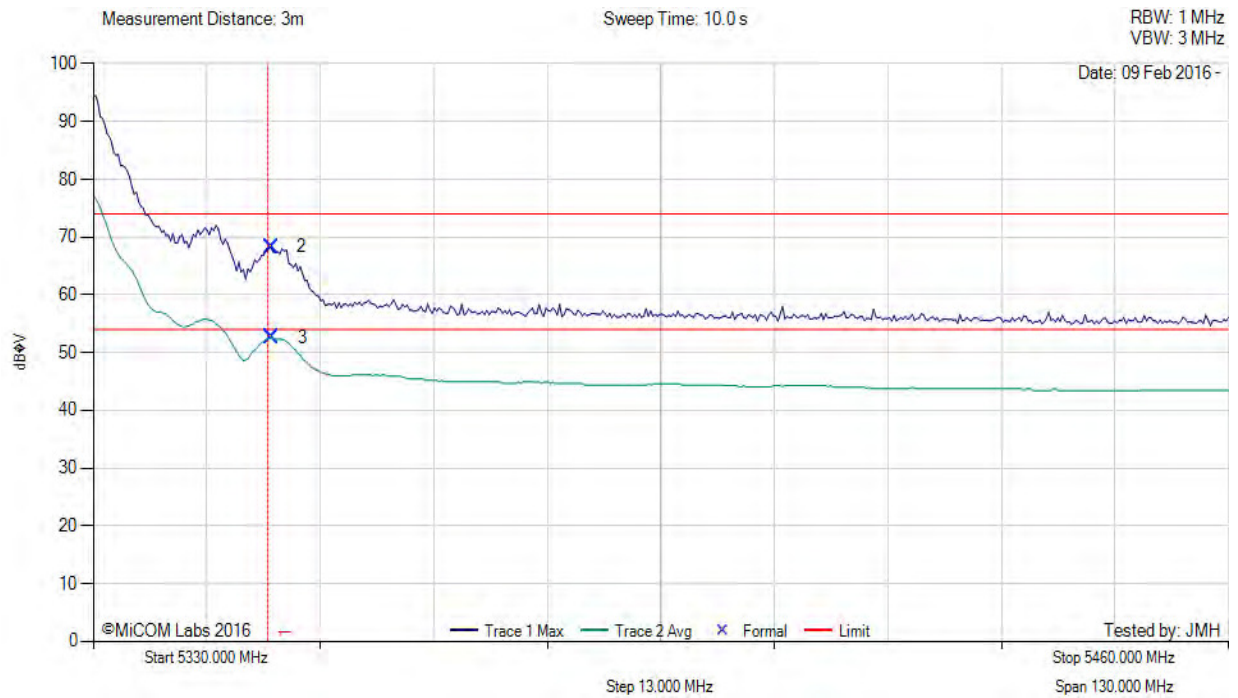


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 214 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-19, Power Setting: 16, Duty Cycle (%): 100



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	5350.36	30.10	3.70	34.51	68.31	Max Peak	Vertical	163	1	74.0	-5.7	Pass
3	5350.48	14.34	3.70	34.51	52.55	Max Avg	Vertical	163	1	54.0	-1.5	Pass
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

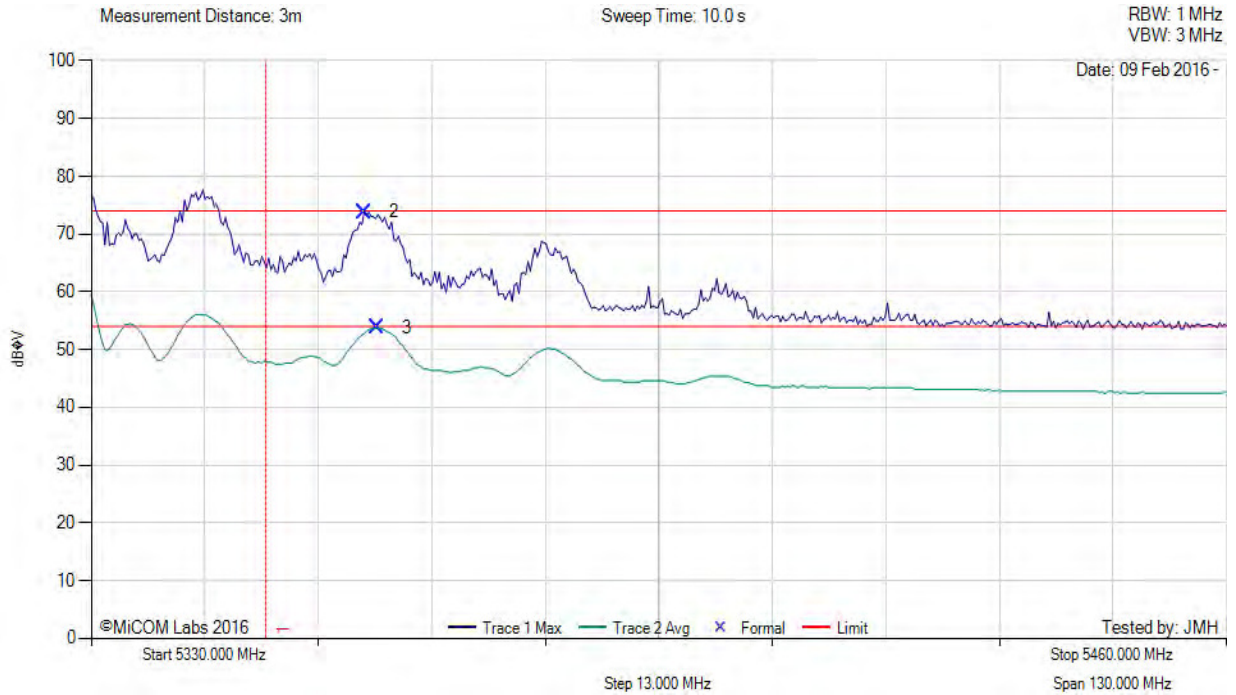


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 215 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-19, Power Setting: 11, Duty Cycle (%): 100



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	5361.30	35.68	3.70	34.48	73.86	Max Peak	Vertical	0	0	74.0	-0.1	Pass
3	5362.73	15.59	3.70	34.48	53.77	Max Avg	Vertical	0	0	54.0	-0.2	Pass
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

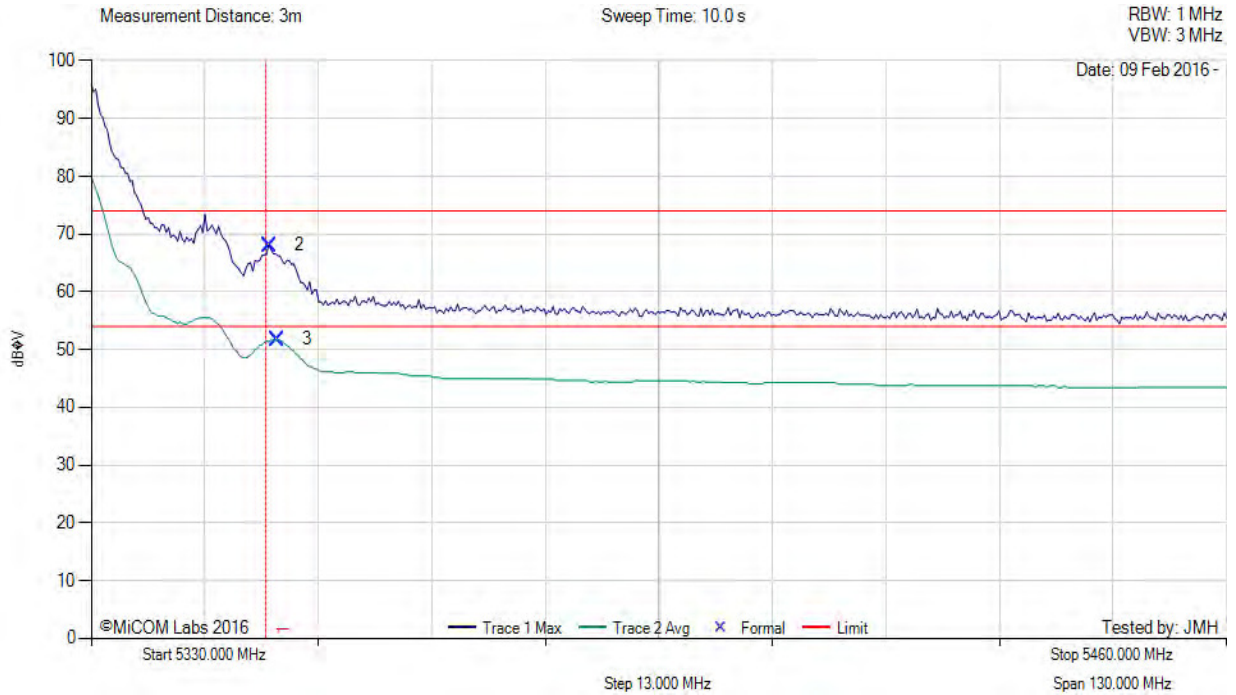


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 216 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5320.00 MHz, Antenna: AP-ANT-19, Power Setting: 16, Duty Cycle (%): 100



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	5350.36	29.86	3.70	34.51	68.07	Max Peak	Vertical	163	1	74.0	-5.9	Pass
3	5351.26	13.52	3.71	34.51	51.74	Max Avg	Vertical	163	1	54.0	-2.3	Pass
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

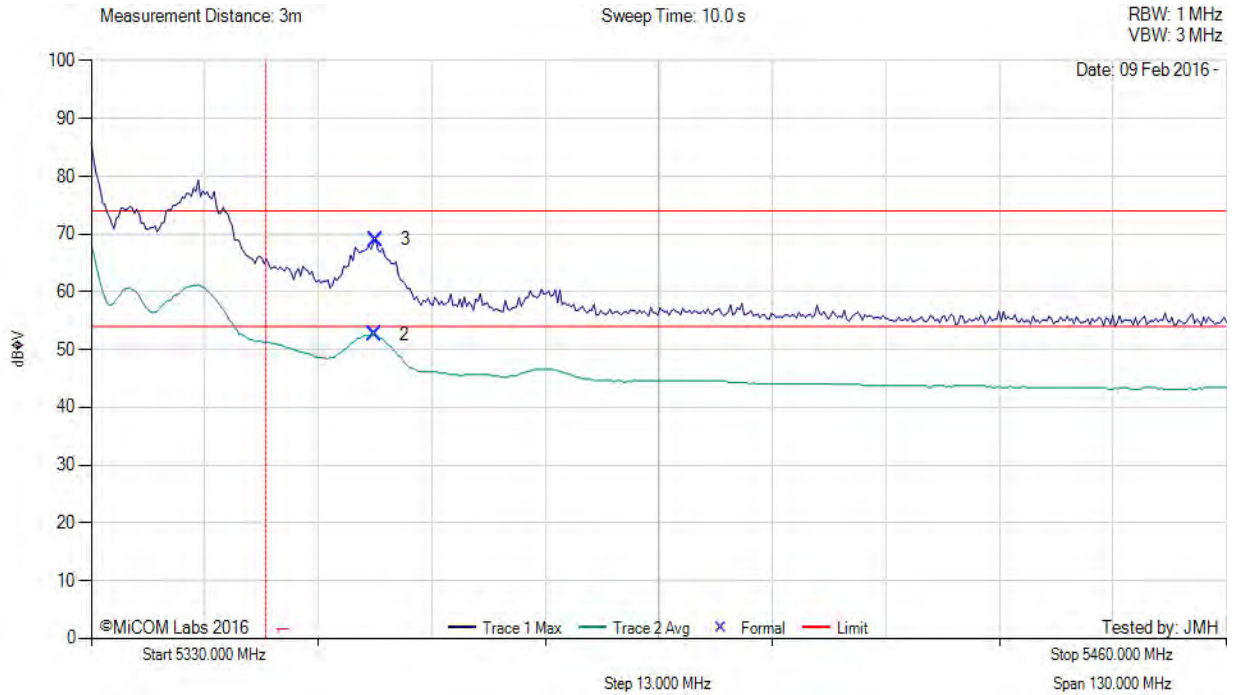


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 217 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5310.00 MHz, Antenna: AP-ANT-19, Power Setting: 15, Duty Cycle (%): 100



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	5362.46	14.47	3.70	34.48	52.65	Max Avg	Vertical	163	1	54.0	-1.4	Pass
3	5362.61	30.88	3.70	34.48	69.06	Max Peak	Vertical	163	1	74.0	-4.9	Pass
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

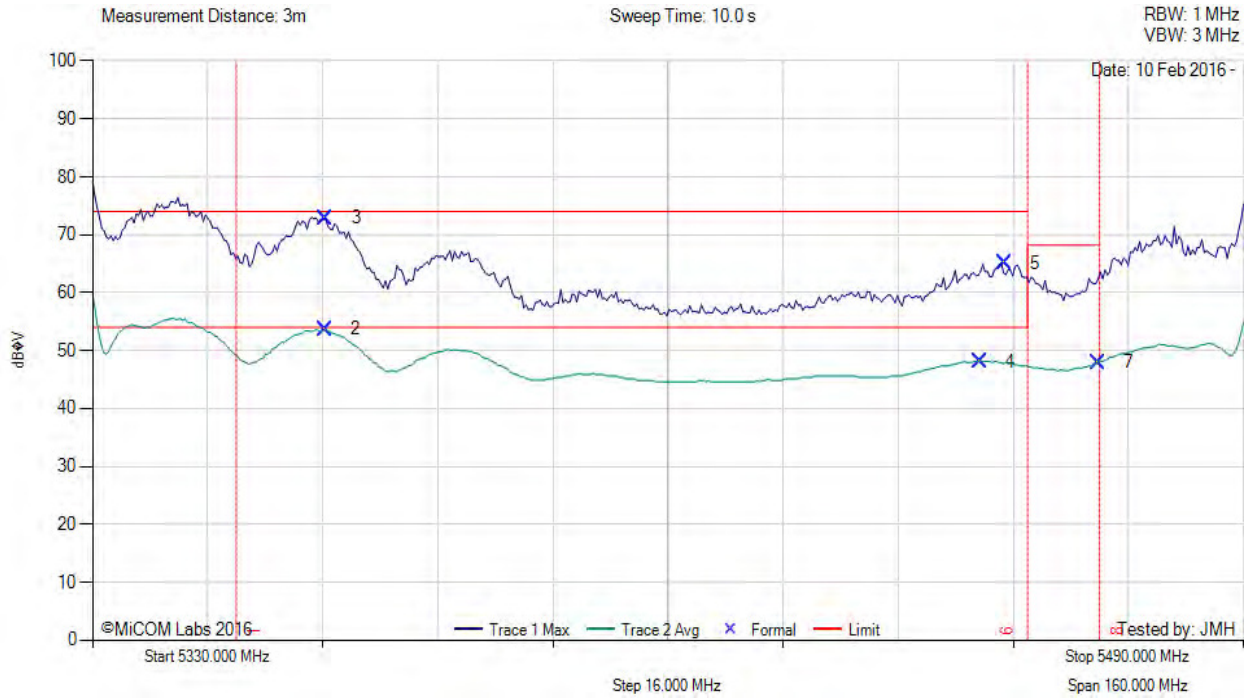


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 218 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-19, Power Setting: 12, Duty Cycle (%): 100



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	--	--	--	--	Restricted Band	--	--	--	--	--	--
2	5362.40	15.50	3.70	34.48	53.68	Max Avg	Vertical	163	1	54.0	-0.3	Pass
3	5362.42	34.72	3.70	34.48	72.90	Max Peak	Vertical	163	1	74.0	-1.1	Pass
4	5453.45	14.50	3.76	34.30	48.13	Max Avg	Vertical	163	1	54.0	-5.9	Pass
5	5456.78	27.07	3.76	34.30	65.13	Max Peak	Vertical	163	1	74.0	-8.9	Pass
6	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
7	5469.80	9.84	3.79	34.32	47.95	Max Avg	Horizontal	153	30	68.2*	-20.3	Pass
8	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

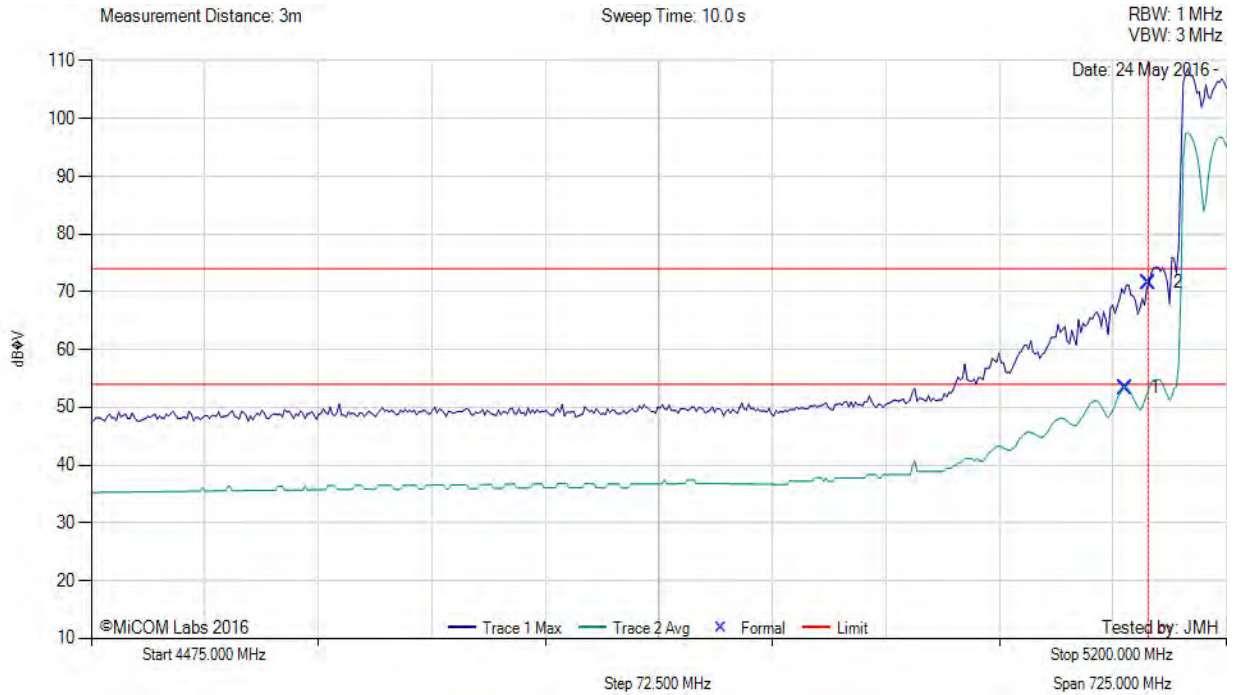


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 219 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-19, Power Setting: 14, Duty Cycle (%): 91



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	5135.47	15.62	3.69	34.12	53.43	Max Avg	Vertical	200	201	54.0	-0.6	Pass
2	5150.00	33.80	3.67	34.11	71.58	Max Peak	Vertical	200	201	74.0	-2.4	Pass
3	5150.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

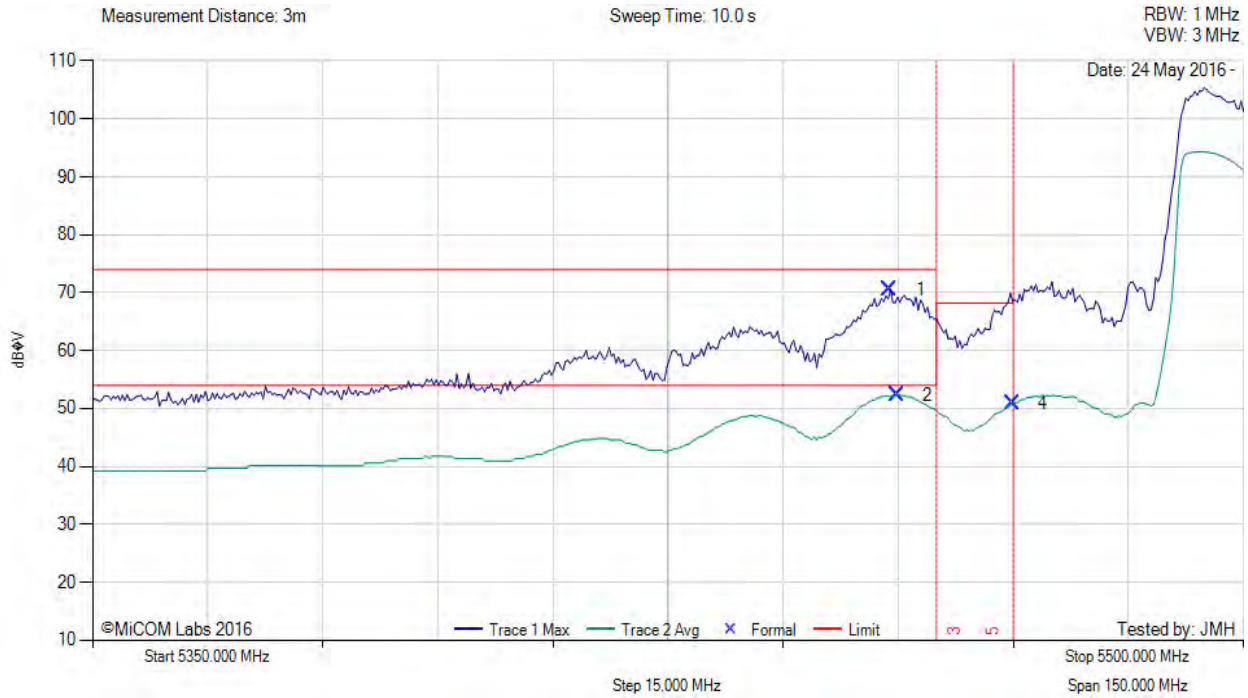


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 220 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5570.00 MHz, Antenna: AP-ANT-19, Power Setting: 13.5, Duty Cycle (%): 91



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	5453.93	32.41	3.79	34.30	70.50	Max Peak	Vertical	141	201	74.0	-3.5	Pass
2	5454.89	14.25	3.79	34.30	52.34	Max Avg	Vertical	141	201	54.0	-1.7	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.93	12.79	3.79	34.32	50.90	Max Avg	Horizontal	153	30	68.2*	-17.3	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

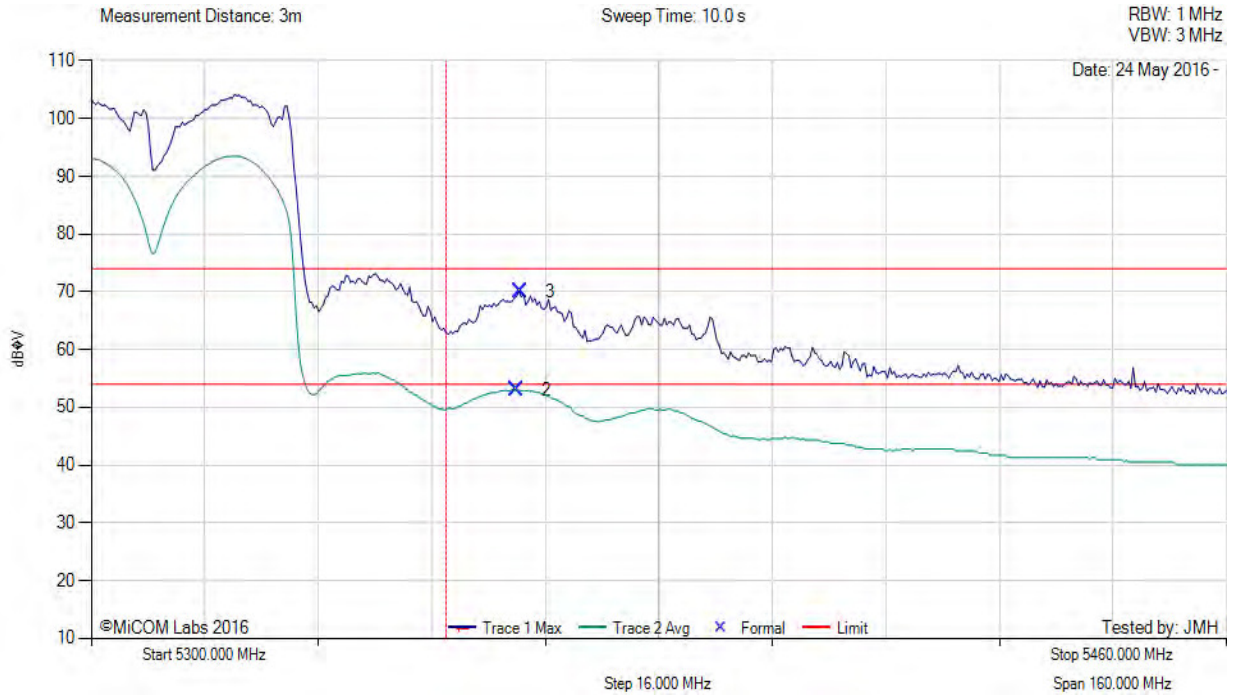


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 221 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-19, Power Setting: 14, Duty Cycle (%): 91



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	5359.90	14.89	3.70	34.49	53.08	Max Avg	Vertical	200	201	54.0	-0.9	Pass
3	5360.42	31.85	3.70	34.49	70.04	Max Peak	Vertical	200	201	74.0	-4.0	Pass
1	5350.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

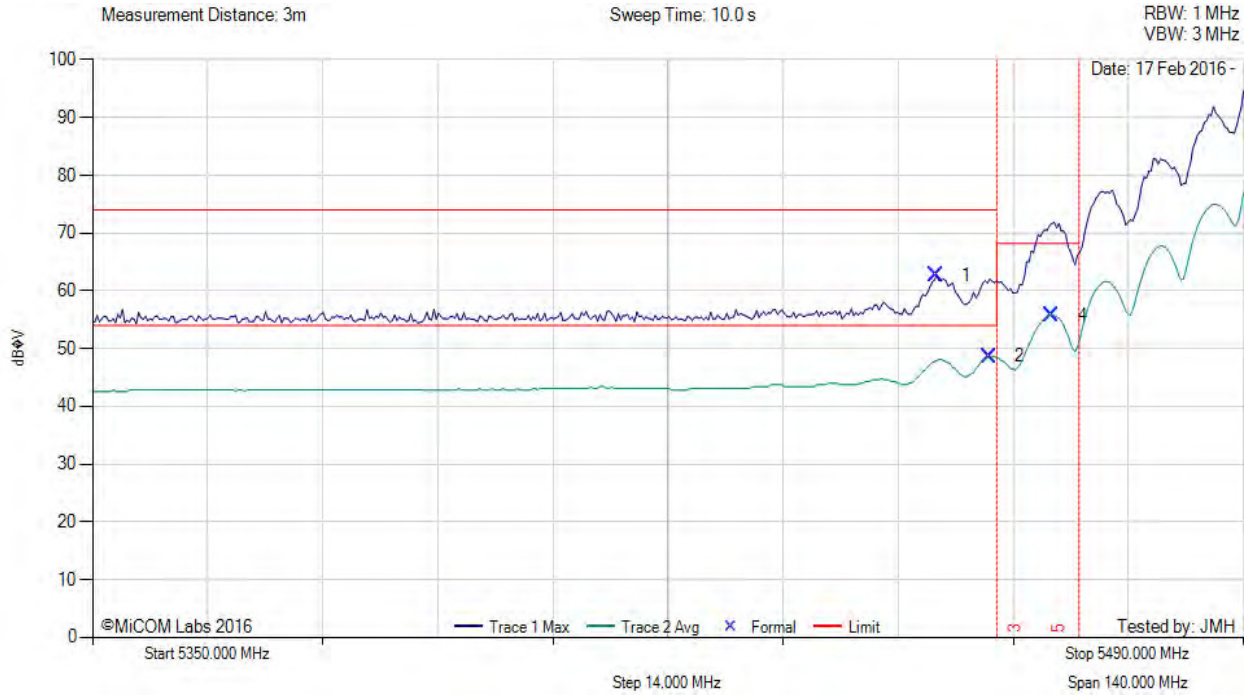


A.1.2.3. AP-ANT-1W



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-1W, Power Setting: 18, Duty Cycle (%): 100



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	5452.55	24.54	3.79	34.30	62.63	Max Peak	Horizontal	175	46	74.0	-11.4	Pass
2	5459.12	10.56	3.79	34.31	48.66	Max Avg	Horizontal	175	46	54.0	-5.3	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5466.71	17.68	3.79	34.32	55.79	Max Avg	Horizontal	153	30	68.2*	-12.4	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

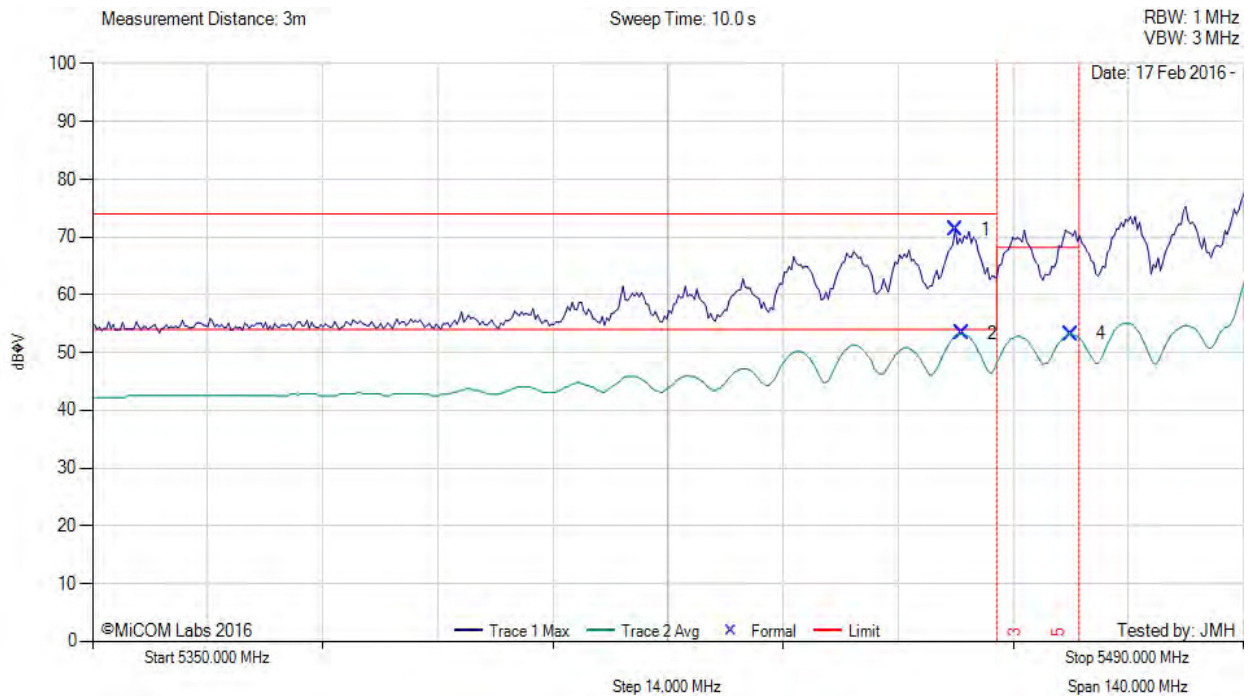


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 223 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5530.00 MHz, Antenna: AP-ANT-1W, Power Setting: 13.5, Duty Cycle (%): 100



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	5454.95	33.16	3.79	34.30	71.25	Max Peak	Horizontal	175	46	74.0	-2.8	Pass
2	5455.81	15.19	3.80	34.30	53.29	Max Avg	Horizontal	175	46	54.0	-0.7	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5468.96	15.09	3.79	34.32	53.20	Max Avg	Horizontal	153	30	68.2*	-15.0	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

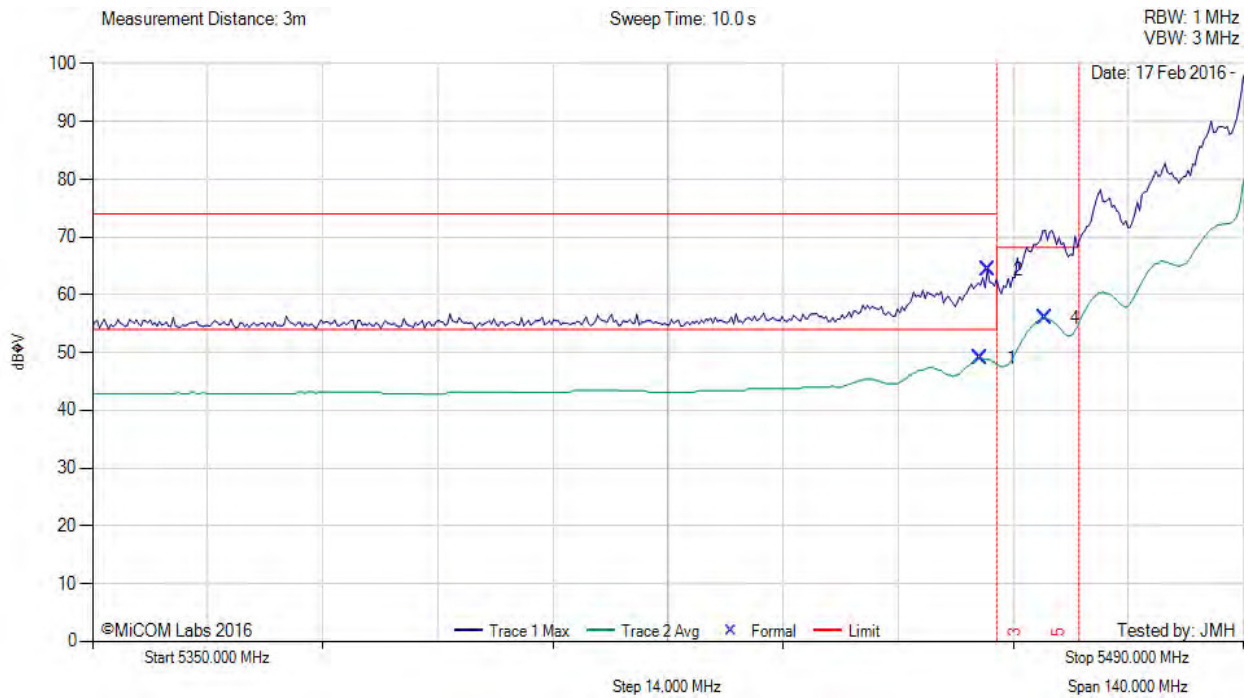


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 224 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5500.00 MHz, Antenna: AP-ANT-1W, Power Setting: 18, Duty Cycle (%): 100



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	5458.04	10.89	3.80	34.30	48.99	Max Avg	Horizontal	175	46	54.0	-5.0	Pass
2	5458.96	26.20	3.79	34.31	64.30	Max Peak	Horizontal	175	46	74.0	-9.7	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5465.87	17.91	3.79	34.32	56.02	Max Avg	Horizontal	153	30	68.2*	-12.2	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

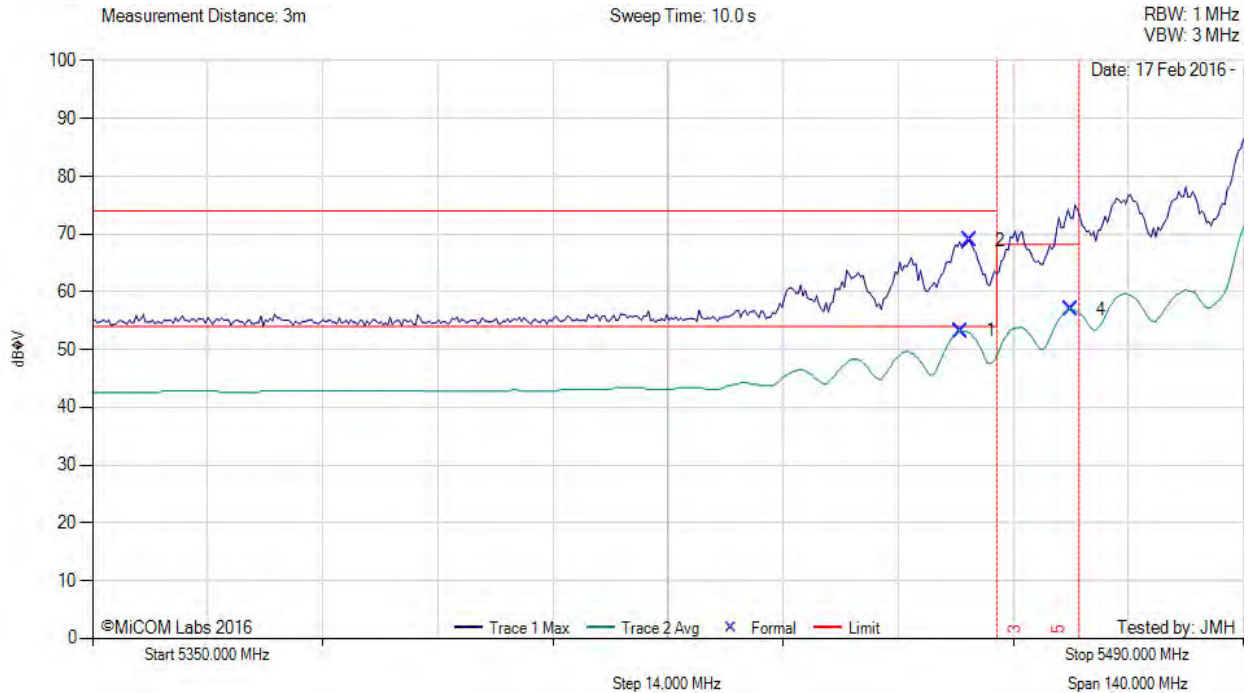


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 225 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5510.00 MHz, Antenna: AP-ANT-1W, Power Setting: 16, Duty Cycle (%): 100



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	5455.65	15.09	3.80	34.30	53.19	Max Avg	Horizontal	175	46	54.0	-0.8	Pass
2	5456.65	30.81	3.80	34.30	68.91	Max Peak	Horizontal	175	46	74.0	-5.1	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5468.96	18.87	3.79	34.32	56.98	Max Avg	Horizontal	153	30	68.2*	-11.3	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

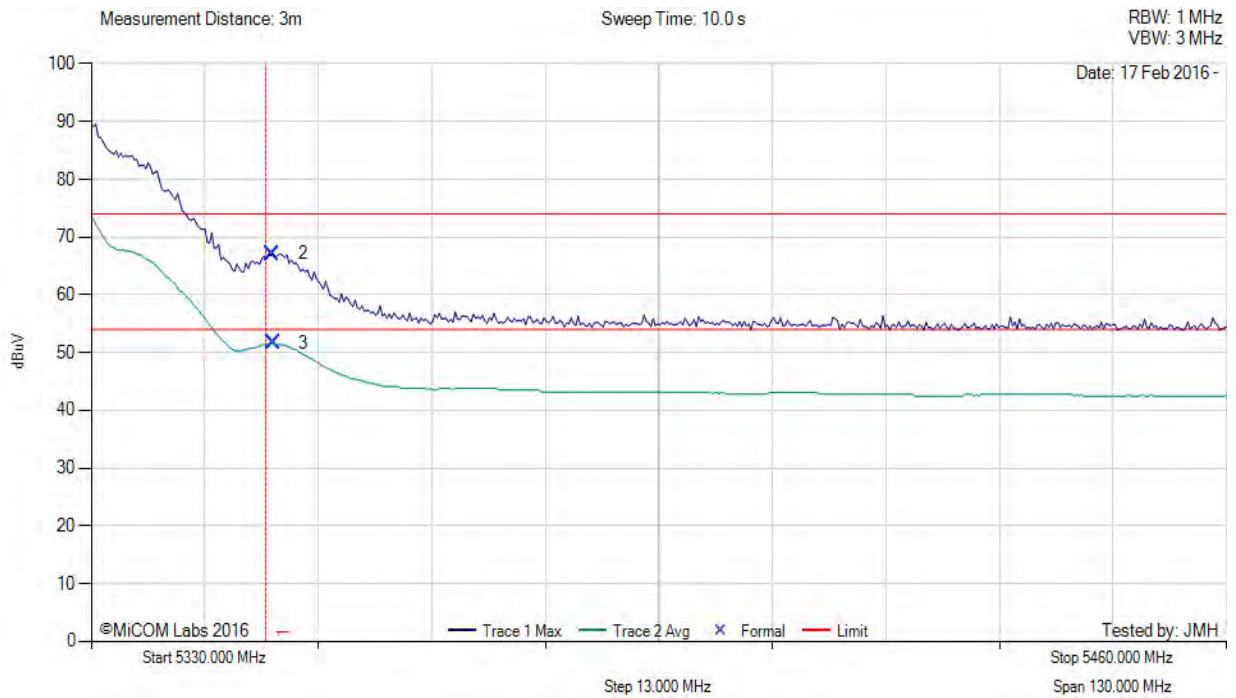


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 226 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-1W, Power Setting: 17, Duty Cycle (%): 100



Num	Frequency MHz	Raw dB μ V	Cable Loss	AF dB	Level dB μ V/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dB μ V/m	Margin dB	Pass /Fail
2	5350.78	28.92	3.71	34.51	67.14	Max Peak	Horizontal	181	328	74.0	-6.9	Pass
3	5350.86	13.40	3.71	34.51	51.62	Max Avg	Horizontal	181	328	54.0	-2.4	Pass
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

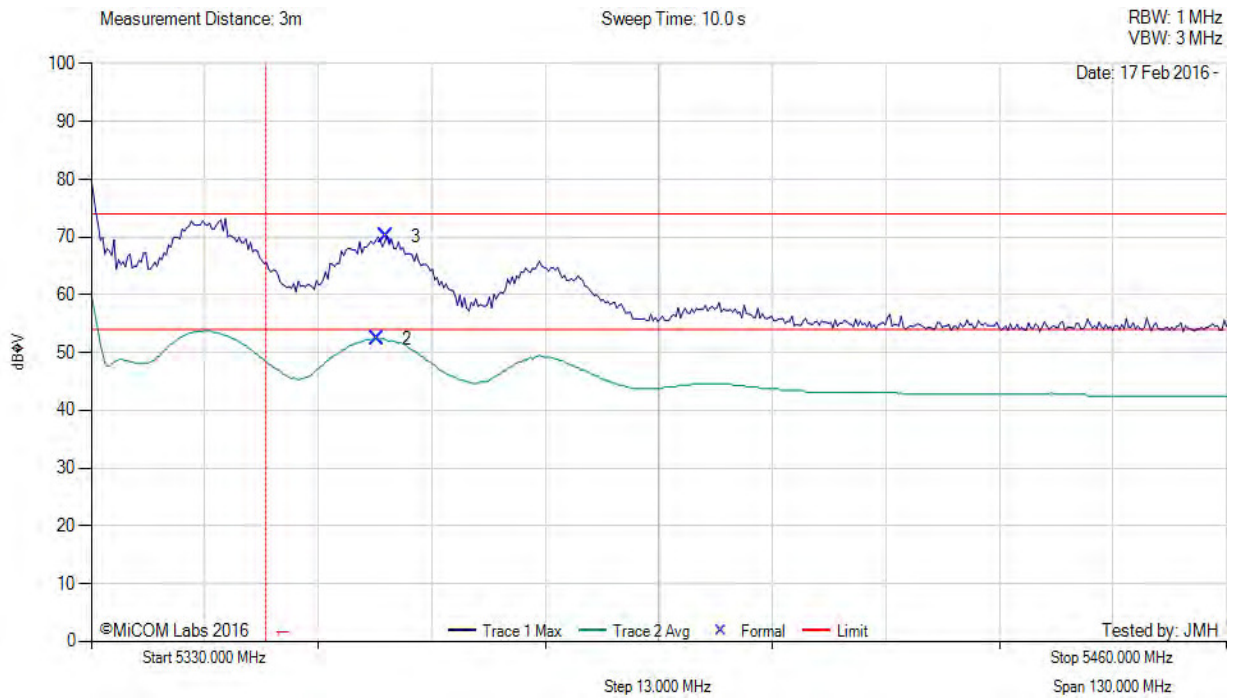


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 227 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-1W, Power Setting: 13, Duty Cycle (%): 100



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	5362.73	14.25	3.70	34.48	52.43	Max Avg	Horizontal	181	328	54.0	-1.6	Pass
3	5363.77	31.98	3.70	34.48	70.16	Max Peak	Horizontal	181	328	74.0	-3.8	Pass
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

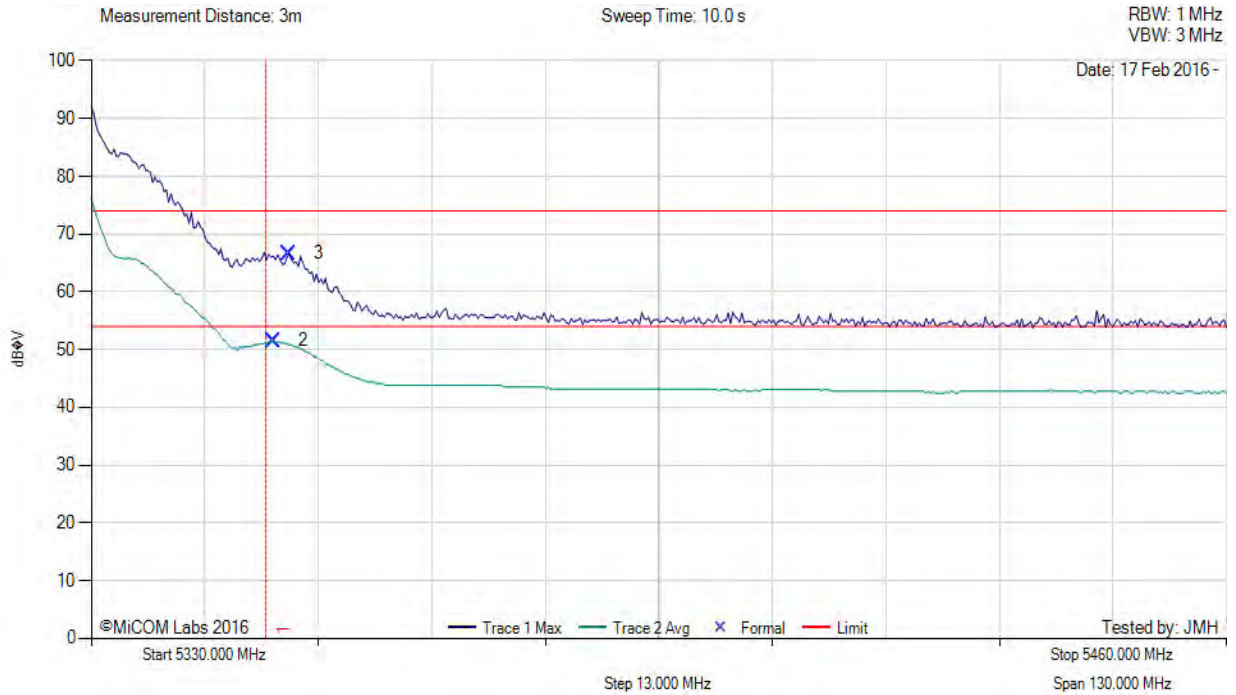


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 228 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5320.00 MHz, Antenna: AP-ANT-1W, Power Setting: 17, Duty Cycle (%): 100



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	5350.84	13.28	3.71	34.51	51.50	Max Avg	Horizontal	181	328	54.0	-2.5	Pass
3	5352.61	28.43	3.71	34.50	66.64	Max Peak	Horizontal	181	328	74.0	-7.4	Pass
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

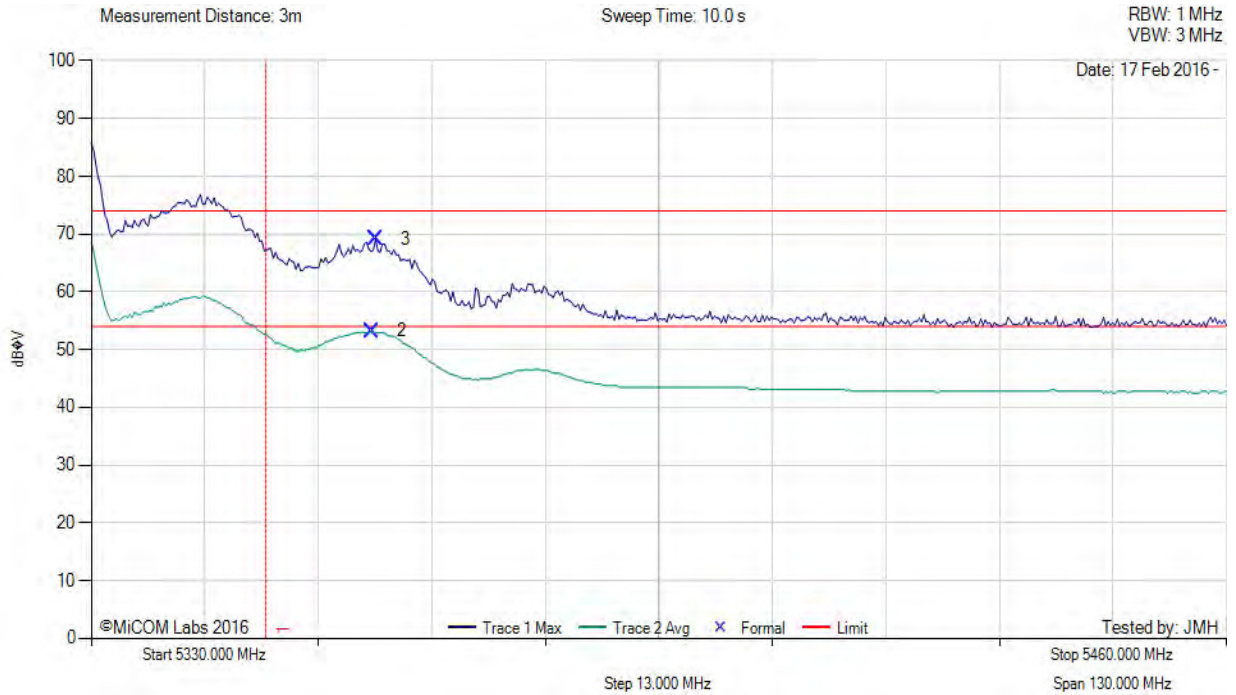


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 229 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variante: 802.11n HT-40, Test Freq: 5310.00 MHz, Antenna: AP-ANT-1W, Power Setting: 16, Duty Cycle (%): 100



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	5362.10	15.00	3.70	34.48	53.18	Max Avg	Horizontal	181	328	54.0	-0.8	Pass
3	5362.61	30.98	3.70	34.48	69.16	Max Peak	Horizontal	181	328	74.0	-4.8	Pass
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

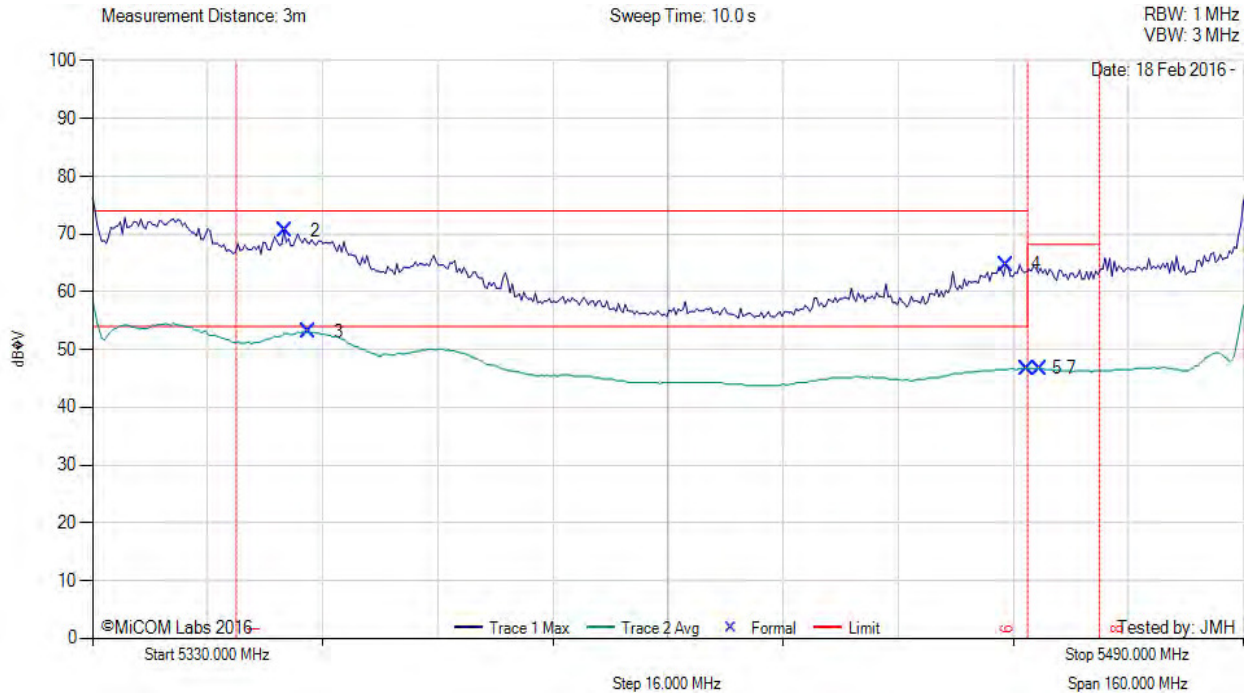


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 230 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-1W, Power Setting: 14, Duty Cycle (%): 100



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	--	--	--	--	Restricted Band	--	--	--	--	--	--
2	5356.73	32.38	3.71	34.49	70.58	Max Peak	Horizontal	180	328	74.0	-3.4	Pass
3	5359.94	14.89	3.70	34.49	53.08	Max Avg	Horizontal	180	328	54.0	-0.9	Pass
4	5456.97	26.62	3.79	34.30	64.71	Max Peak	Horizontal	180	328	74.0	-9.3	Pass
5	5459.86	8.66	3.80	34.30	46.76	Max Avg	Horizontal	180	328	54.0	-7.2	Pass
6	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
7	5461.78	8.66	3.79	34.32	46.76	Max Avg	Horizontal	153	30	68.2*	-21.5	Pass
8	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

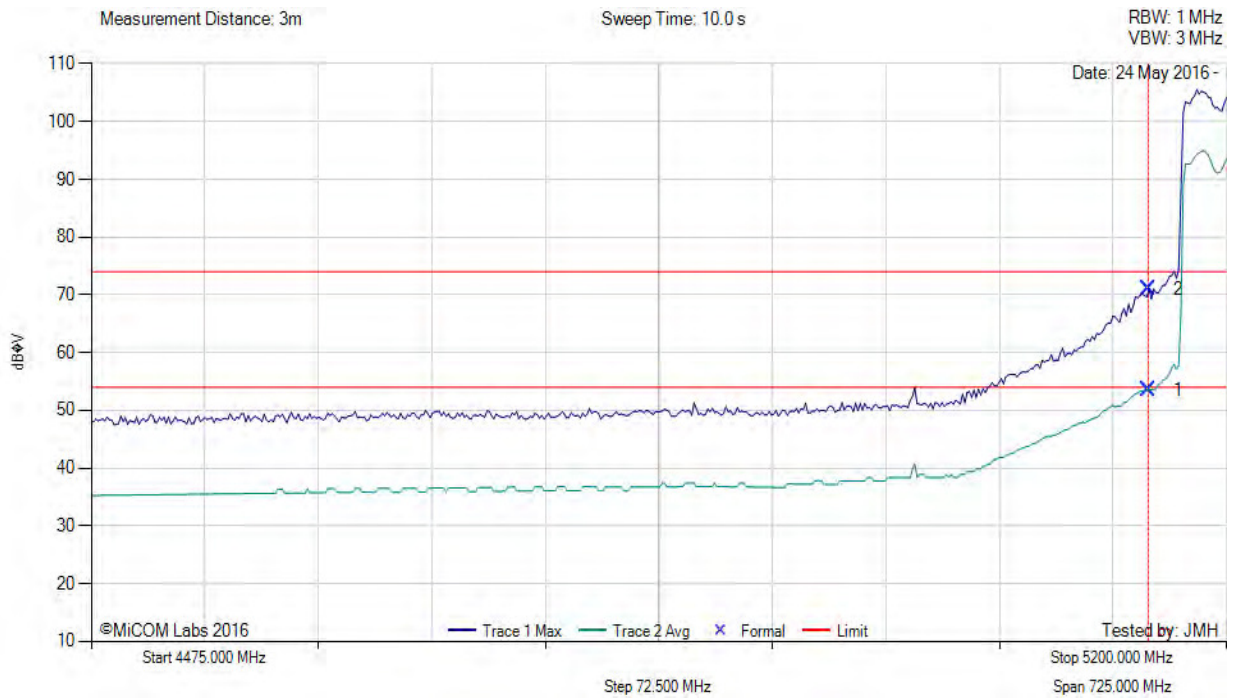


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 231 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-1W, Power Setting: 14, Duty Cycle (%): 91



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	15.76	3.67	34.11	53.54	Max Avg	Horizontal	158	319	54.0	-0.5	Pass
2	5150.00	33.29	3.67	34.11	71.07	Max Peak	Horizontal	158	319	74.0	-2.9	Pass
3	5150.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

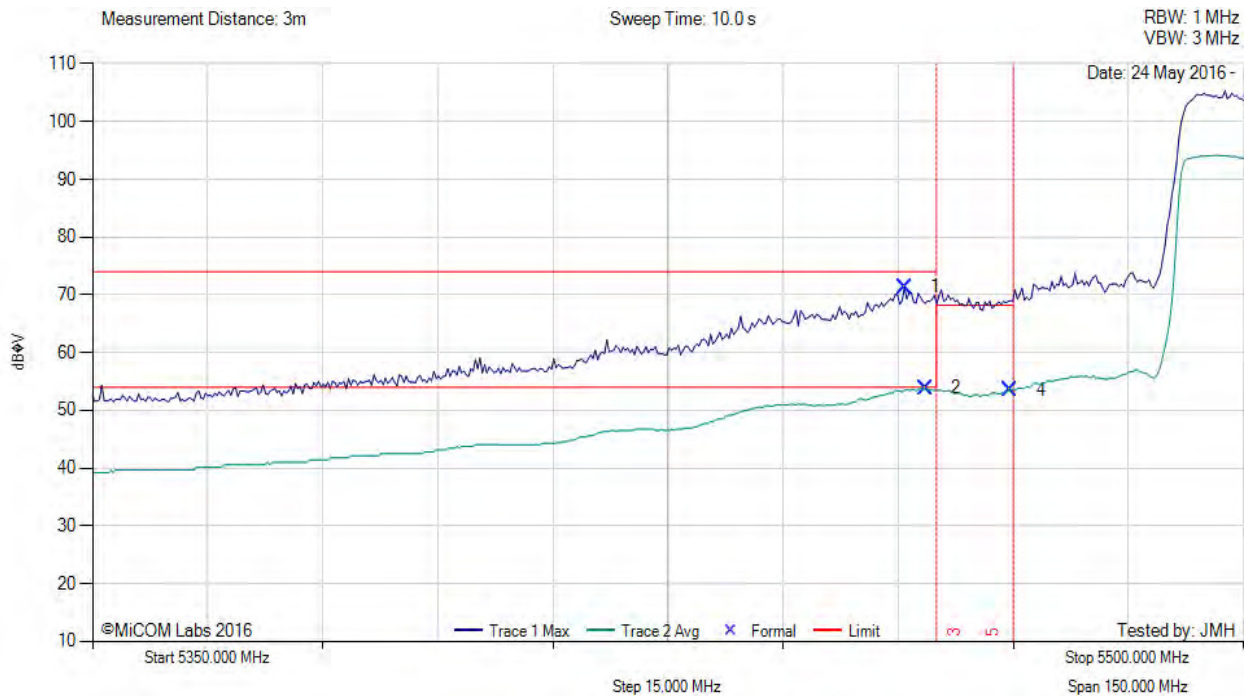


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 232 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5570.00 MHz, Antenna: AP-ANT-1W, Power Setting: 14.5, Duty Cycle (%): 91



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	5455.91	33.23	3.80	34.30	71.33	Max Peak	Horizontal	157	313	74.0	-2.7	Pass
2	5458.60	15.77	3.79	34.31	53.87	Max Avg	Horizontal	157	313	54.0	-0.1	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.64	15.39	3.79	34.32	53.50	Max Avg	Horizontal	153	30	68.2*	-14.7	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

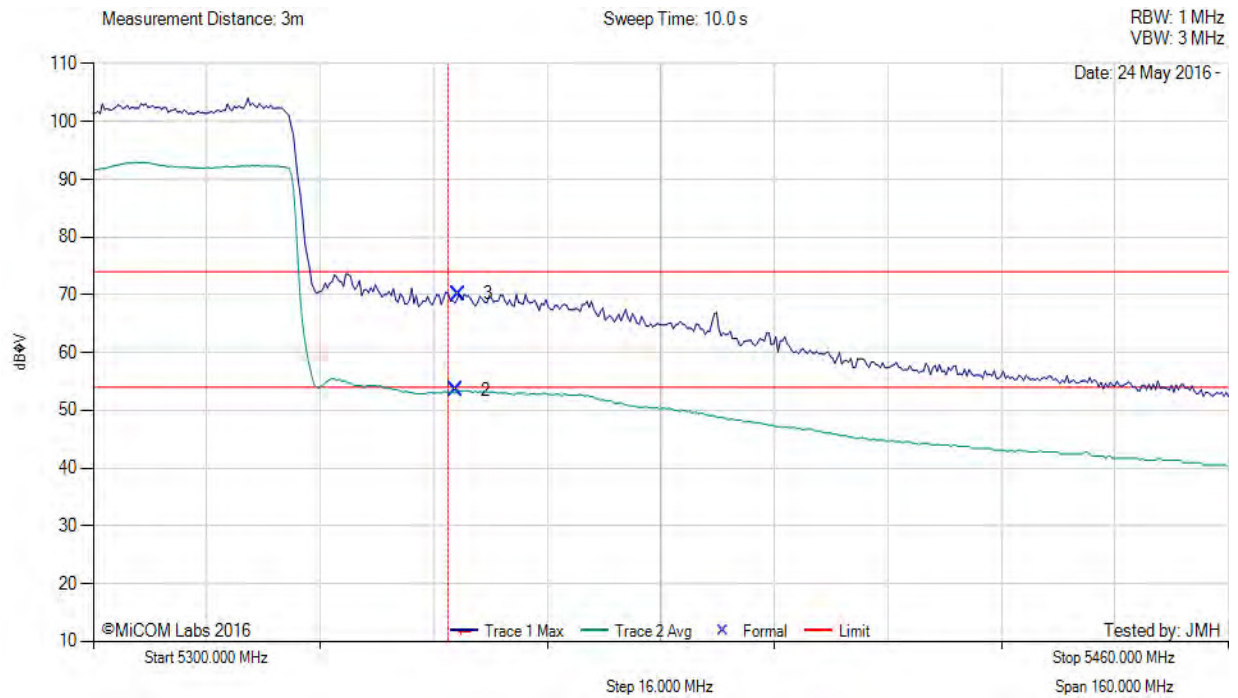


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 233 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-1W, Power Setting: 14, Duty Cycle (%): 91



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	--	--	--	--	Band Edge	--	--	--	--	--	--
2	5351.14	15.36	3.71	34.51	53.58	Max Avg	Horizontal	153	317	54.0	-0.4	Pass
3	5351.48	31.98	3.71	34.51	70.20	Max Peak	Horizontal	153	317	74.0	-3.8	Pass

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

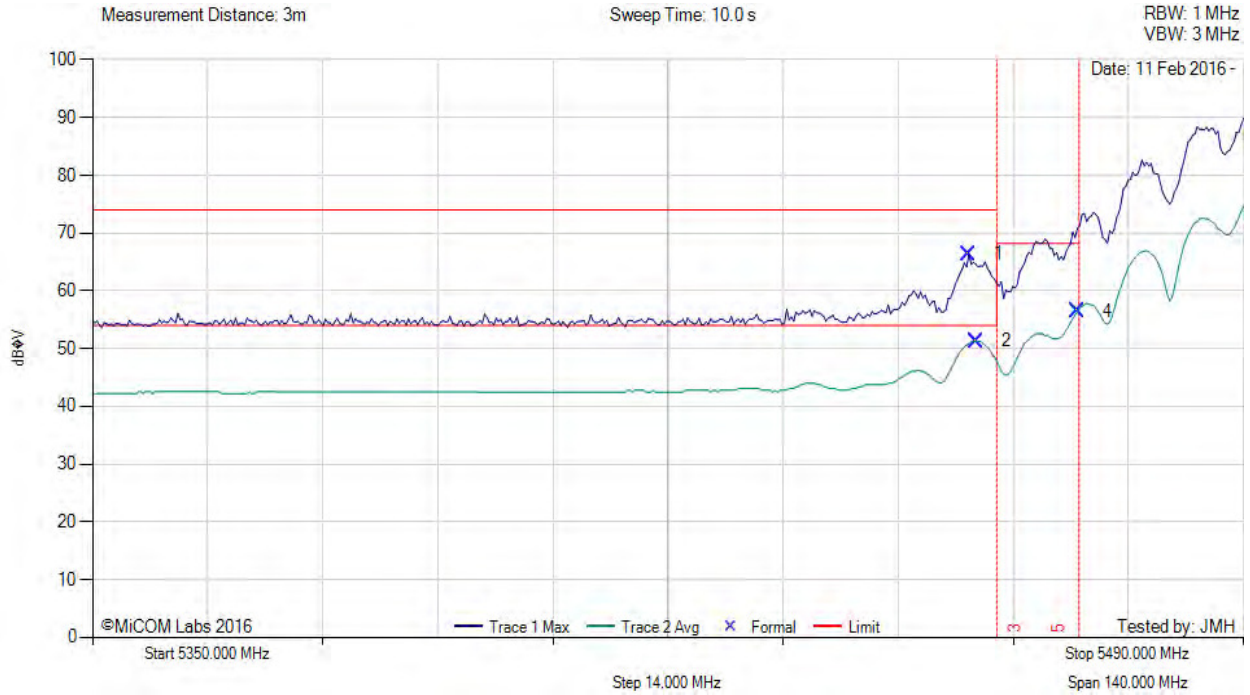


A.1.2.4. AP-ANT-20W



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-20W, Power Setting: 18.5, Duty Cycle (%): 100



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	5456.51	28.27	3.80	34.30	66.37	Max Peak	Horizontal	152	16	74.0	-7.6	Pass
2	5457.49	13.18	3.80	34.30	51.28	Max Avg	Horizontal	152	16	54.0	-2.7	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	18.27	3.79	34.32	56.38	Max Avg	Horizontal	153	30	68.2*	-11.9	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

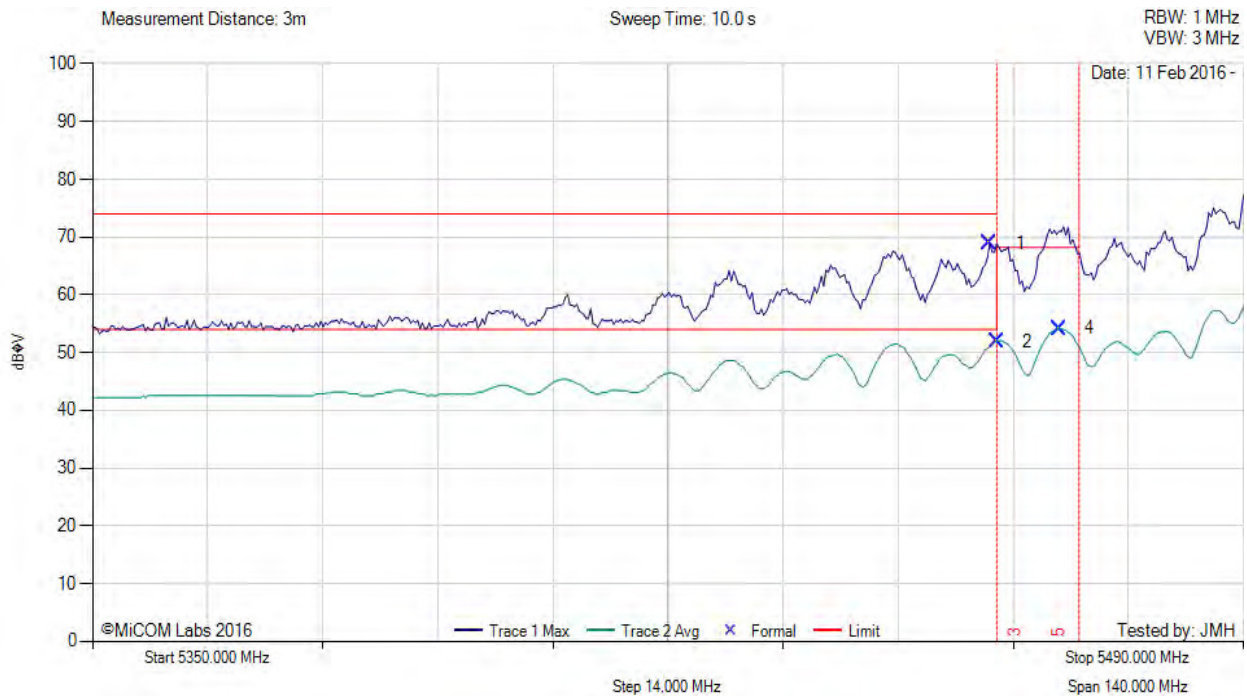


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 235 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5530.00 MHz, Antenna: AP-ANT-20W, Power Setting: 14.5, Duty Cycle (%): 100



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	5459.16	30.87	3.79	34.31	68.97	Max Peak	Horizontal	152	16	74.0	-5.0	Pass
2	5460.00	13.79	3.79	34.31	51.89	Max Avg	Horizontal	152	16	54.0	-2.1	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5467.56	16.04	3.79	34.32	54.15	Max Avg	Horizontal	153	30	68.2*	-14.1	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

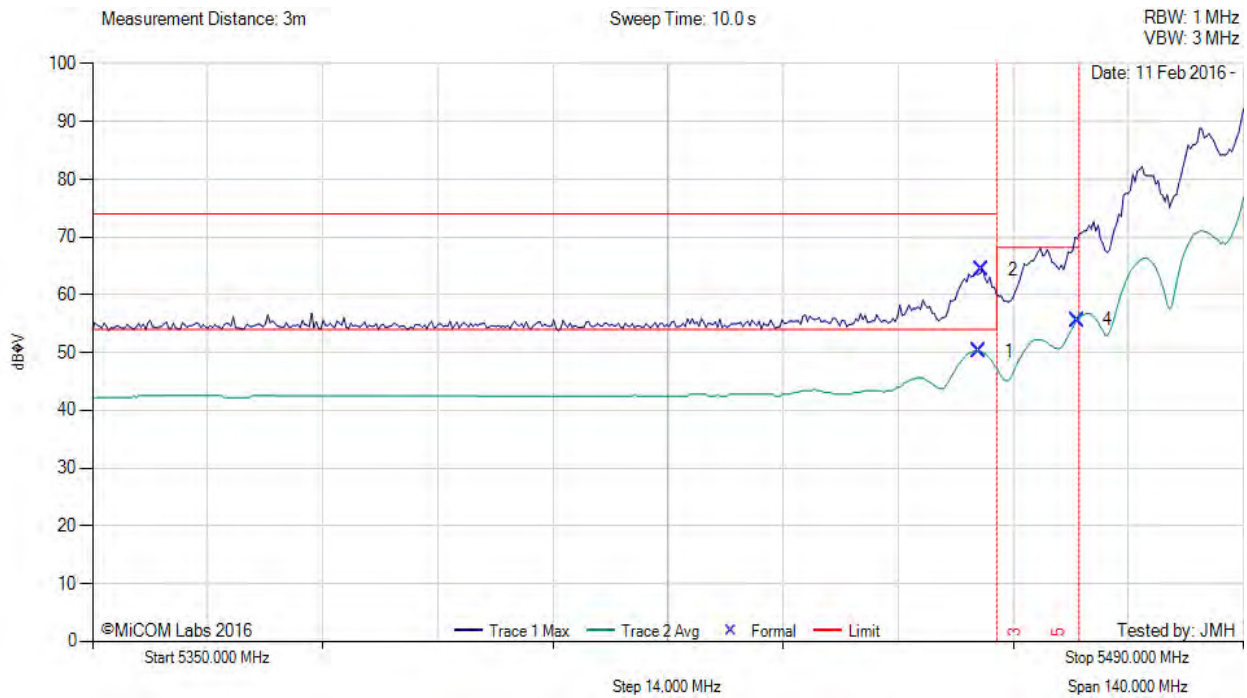


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 236 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5500.00 MHz, Antenna: AP-ANT-20W, Power Setting: 18.5, Duty Cycle (%): 100



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	5457.78	12.11	3.80	34.30	50.21	Max Avg	Horizontal	152	16	54.0	-3.8	Pass
2	5458.20	26.32	3.80	34.30	64.42	Max Peak	Horizontal	152	16	74.0	-9.6	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	17.54	3.79	34.32	55.65	Max Avg	Horizontal	153	30	68.2*	-12.6	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

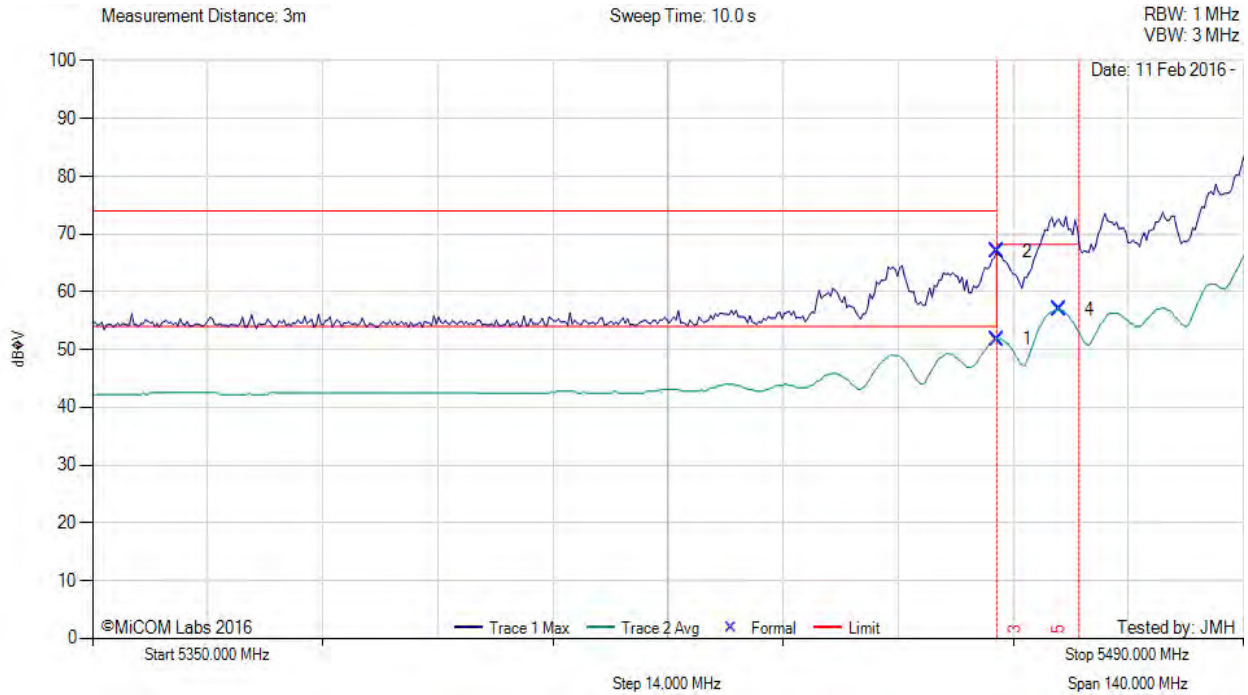


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 237 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5510.00 MHz, Antenna: AP-ANT-20W, Power Setting: 16.5, Duty Cycle (%): 100



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	5460.00	13.67	3.79	34.31	51.77	Max Avg	Horizontal	152	16	54.0	-2.2	Pass
2	5460.00	28.89	3.79	34.31	66.99	Max Peak	Horizontal	152	16	74.0	-7.0	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5467.56	18.81	3.79	34.32	56.92	Max Avg	Horizontal	153	30	68.2*	-11.3	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

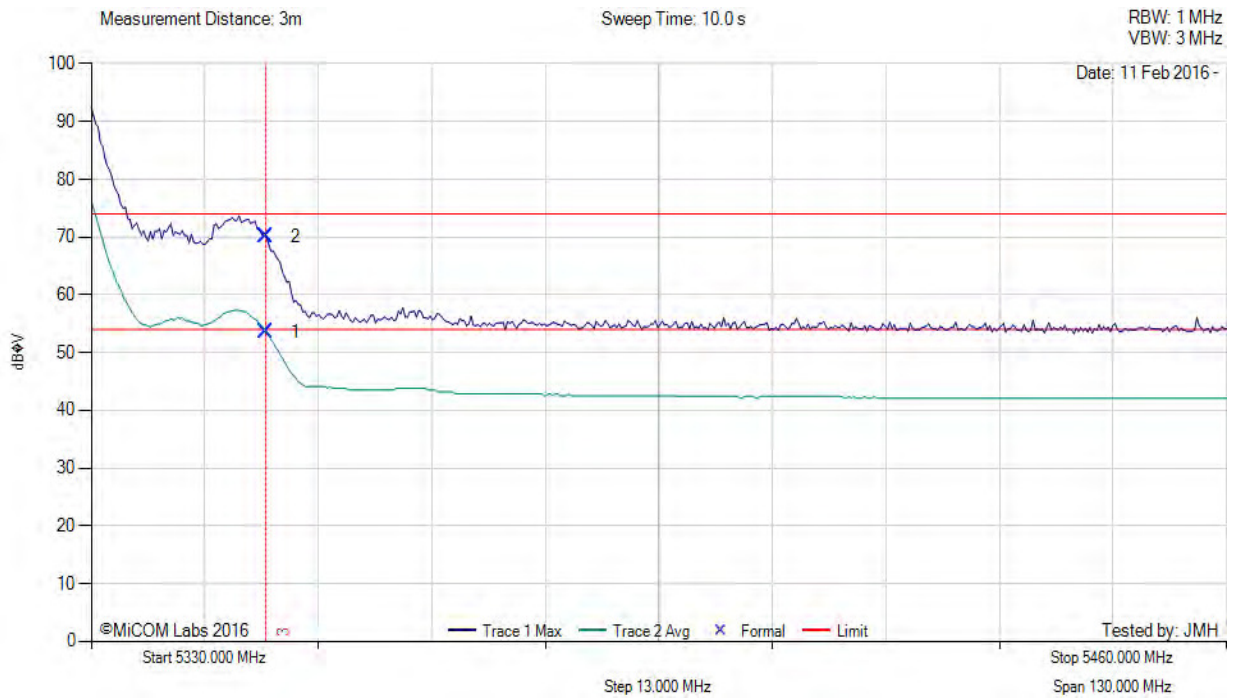


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 238 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-20W, Power Setting: 17.5, Duty Cycle (%): 100



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	15.37	3.70	34.51	53.58	Max Avg	Vertical	158	342	54.0	-0.4	Pass
2	5350.00	31.93	3.70	34.51	70.14	Max Peak	Vertical	158	342	74.0	-3.9	Pass
3	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

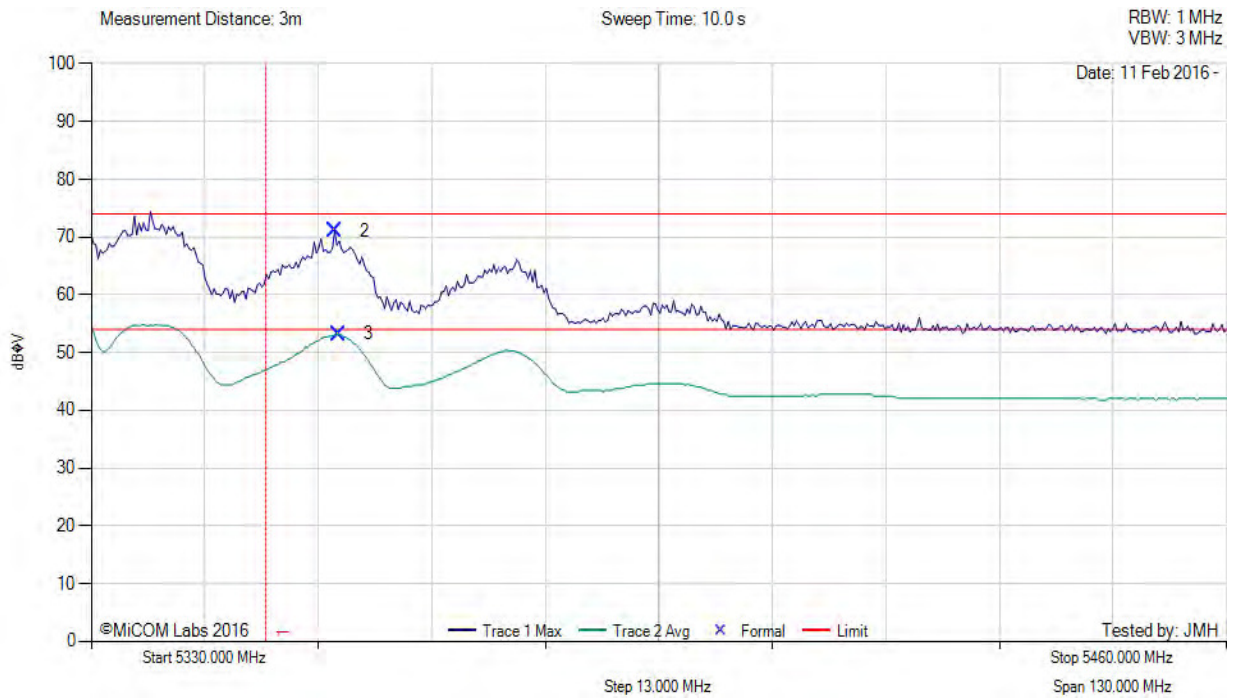


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 239 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-20W, Power Setting: 14, Duty Cycle (%): 100



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	PoI	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--
2	5357.92	32.81	3.71	34.49	71.01	Max Peak	Vertical	158	342	74.0	-3.0	Pass
3	5358.30	14.98	3.71	34.49	53.18	Max Avg	Vertical	158	342	54.0	-0.8	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

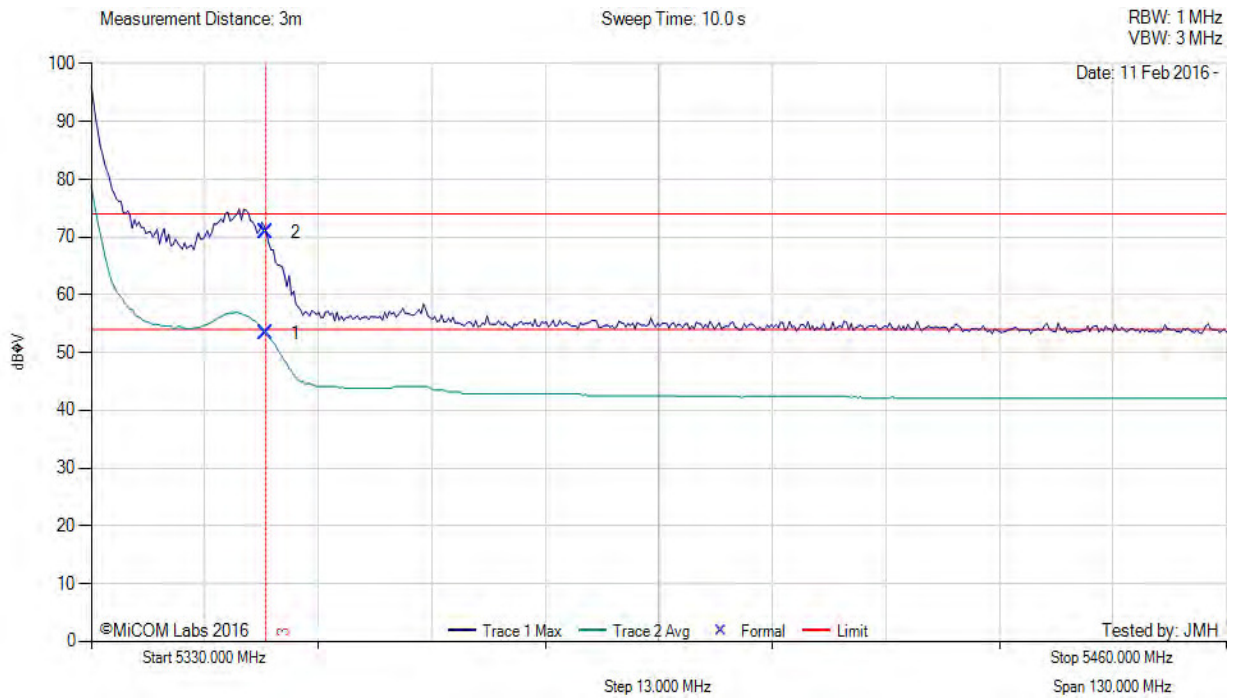


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 240 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5320.00 MHz, Antenna: AP-ANT-20W, Power Setting: 17.5, Duty Cycle (%): 100



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	15.08	3.70	34.51	53.29	Max Avg	Vertical	158	342	54.0	-0.7	Pass
2	5350.00	32.67	3.70	34.51	70.88	Max Peak	Vertical	158	342	74.0	-3.1	Pass
3	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

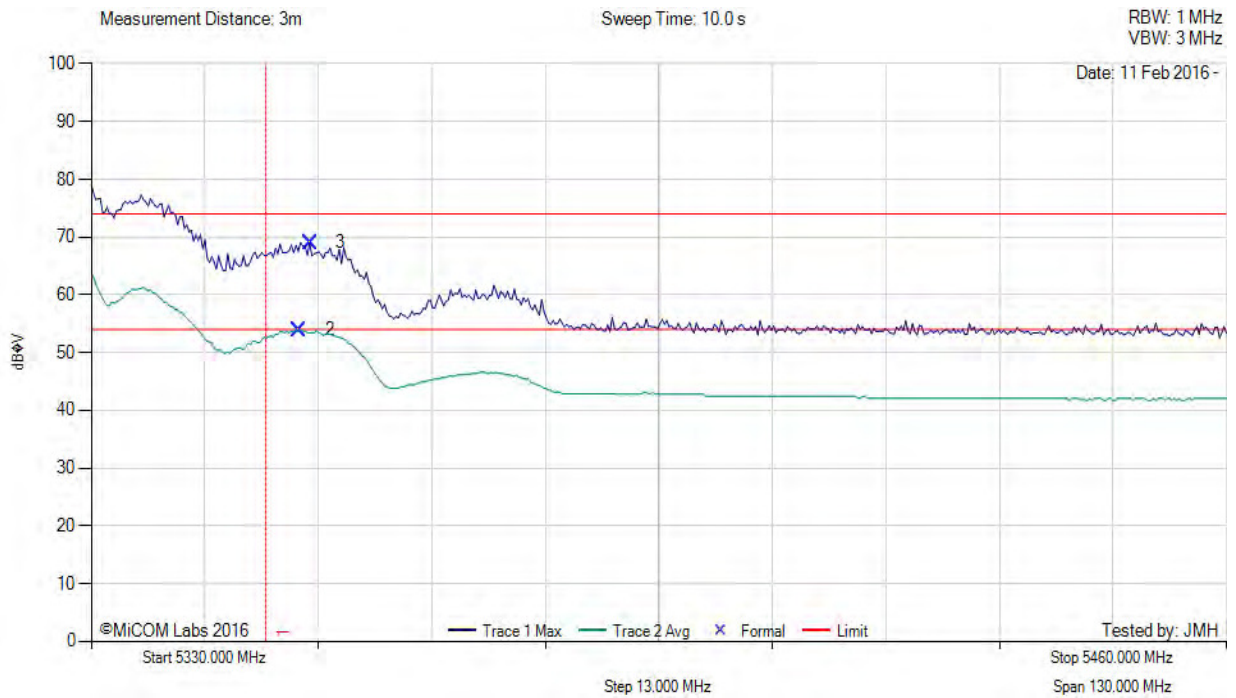


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 241 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5310.00 MHz, Antenna: AP-ANT-20W, Power Setting: 16.5, Duty Cycle (%): 100



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	PoI	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--
2	5353.87	15.75	3.71	34.50	53.96	Max Avg	Vertical	158	342	54.0	0.0	Pass
3	5355.05	30.79	3.71	34.50	69.00	Max Peak	Vertical	158	342	74.0	-5.0	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

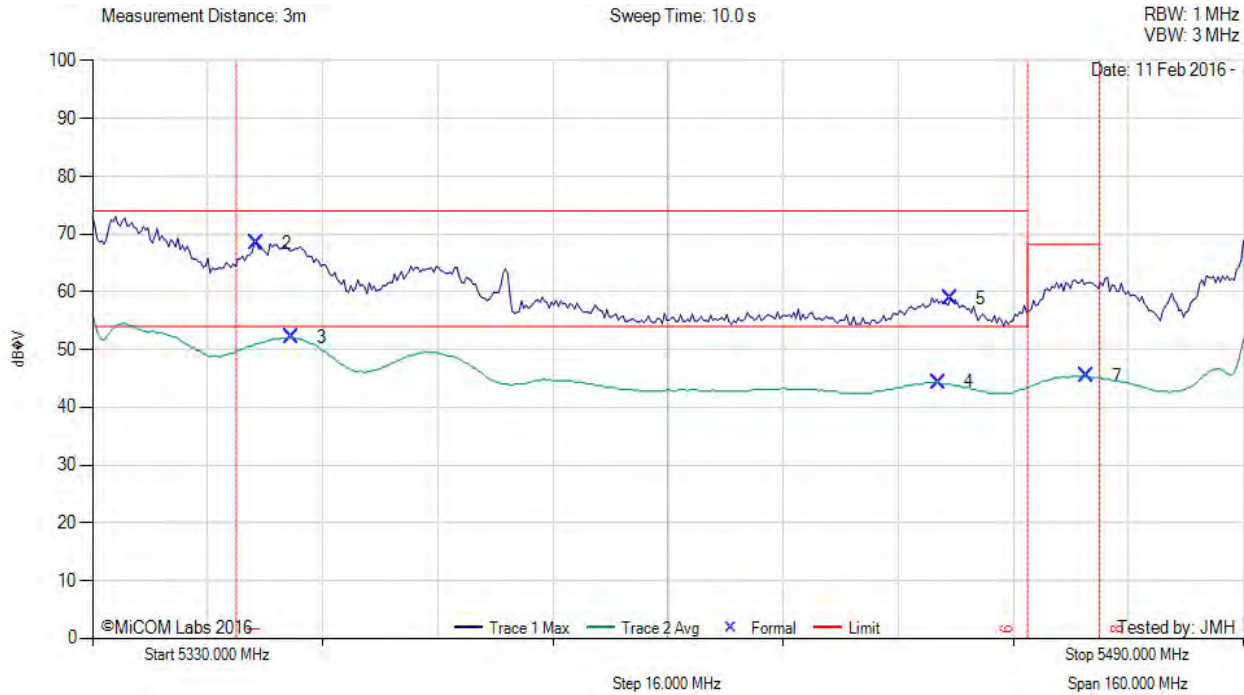


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 242 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-20W, Power Setting: 14.5, Duty Cycle (%): 100



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	--	--	--	--	Restricted Band	--	--	--	--	--	--
2	5352.81	30.24	3.71	34.50	68.45	Max Peak	Vertical	158	342	74.0	-5.6	Pass
3	5357.60	14.01	3.71	34.49	52.21	Max Avg	Vertical	158	342	54.0	-1.8	Pass
4	5447.67	6.22	3.79	34.31	44.32	Max Avg	Horizontal	158	342	54.0	-9.7	Pass
5	5449.27	20.69	3.79	34.31	58.79	Max Peak	Horizontal	158	342	74.0	-15.2	Pass
6	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
7	5468.20	7.28	3.79	34.32	45.39	Max Avg	Horizontal	153	30	68.2*	-22.8	Pass
8	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

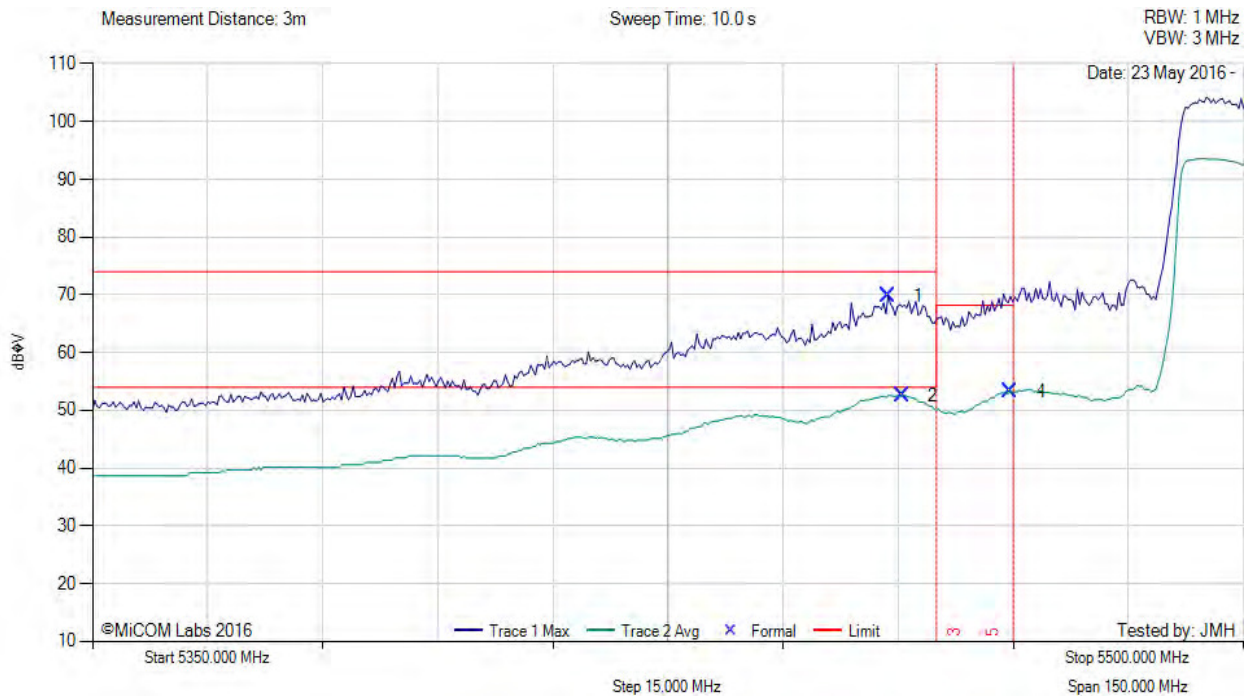


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 243 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5570.00 MHz, Antenna: AP-ANT-20W, Power Setting: 15, Duty Cycle (%): 91



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	5453.65	31.72	3.79	34.30	69.81	Max Peak	Horizontal	154	313	74.0	-4.2	Pass
2	5455.47	14.47	3.79	34.30	52.56	Max Avg	Horizontal	154	313	54.0	-1.4	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.64	15.19	3.79	34.32	53.30	Max Avg	Horizontal	153	30	68.2*	-14.9	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE.

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

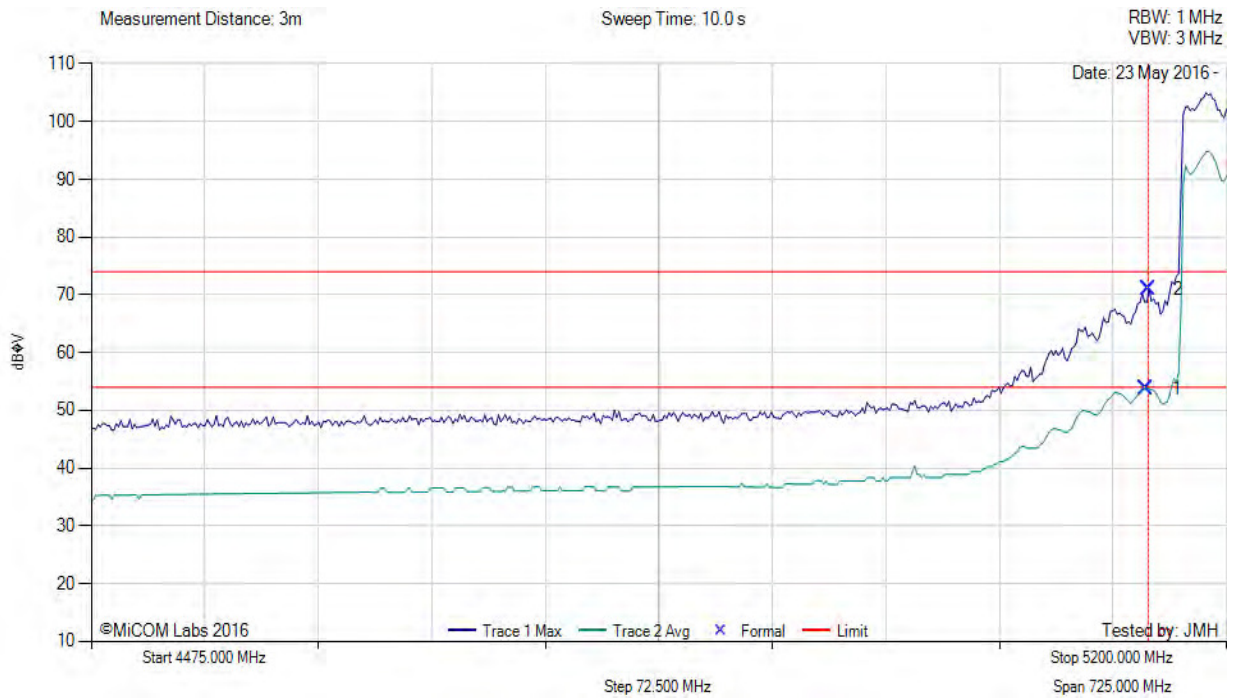


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 244 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-20W, Power Setting: 14.5, Duty Cycle (%): 91



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	5148.85	16.04	3.67	34.11	53.82	Max Avg	Horizontal	152	321	54.0	-0.2	Pass
2	5150.00	33.15	3.67	34.11	70.93	Max Peak	Horizontal	152	321	74.0	-3.1	Pass
3	5150.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

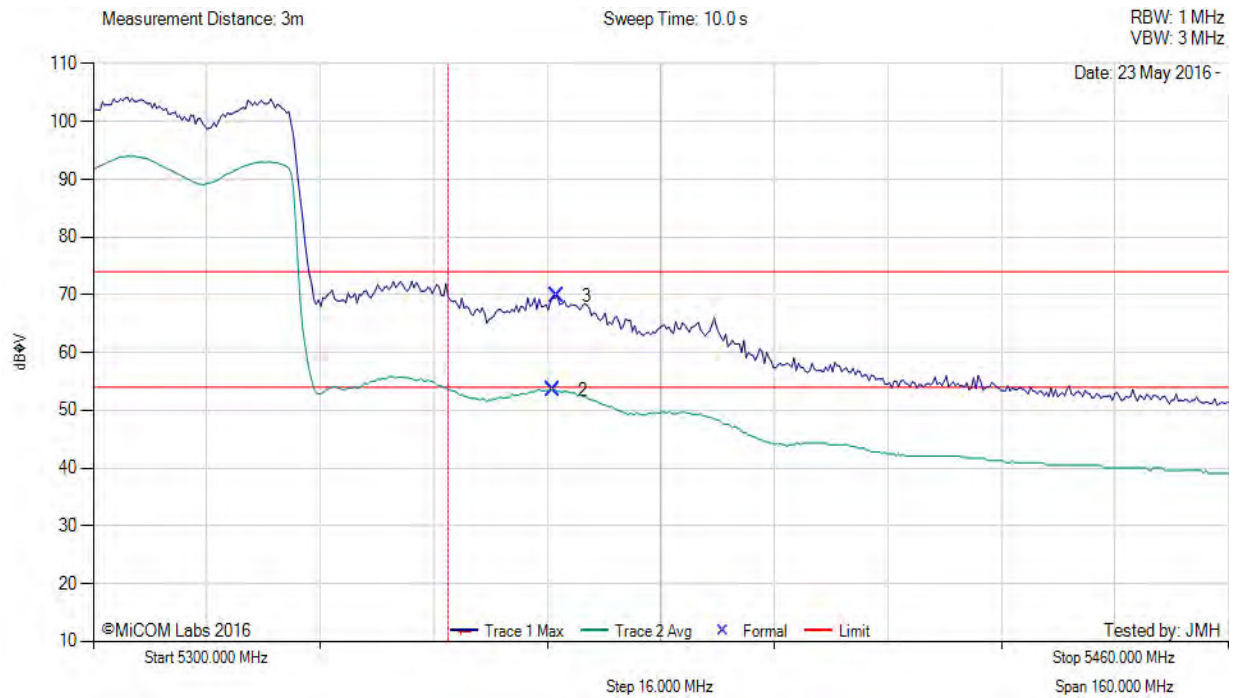


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 245 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-20W, Power Setting: 14.5, Duty Cycle (%): 91



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	--	--	--	--	Band Edge	--	--	--	--	--	--
2	5364.75	15.42	3.69	34.47	53.58	Max Avg	Horizontal	143	-8	54.0	-0.4	Pass
3	5365.29	31.64	3.69	34.47	69.80	Max Peak	Horizontal	143	-8	74.0	-4.2	Pass

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

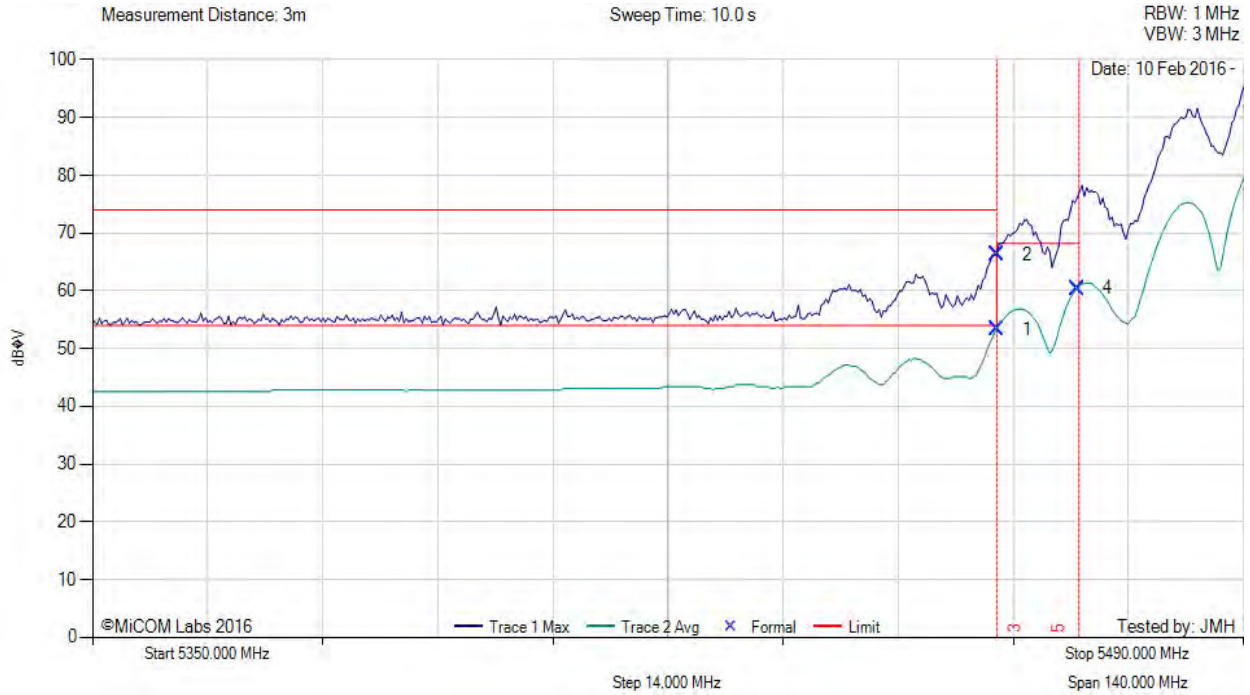


A.1.2.5. AP-ANT-40



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-40, Power Setting: 18.5, Duty Cycle (%): 100



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	5460.00	15.20	3.79	34.31	53.30	Max Avg	Horizontal	148	24	54.0	-0.7	Pass
2	5460.00	28.20	3.79	34.31	66.30	Max Peak	Horizontal	148	24	74.0	-7.7	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	22.33	3.79	34.32	60.44	Max Avg	Horizontal	153	30	68.2*	-7.8	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

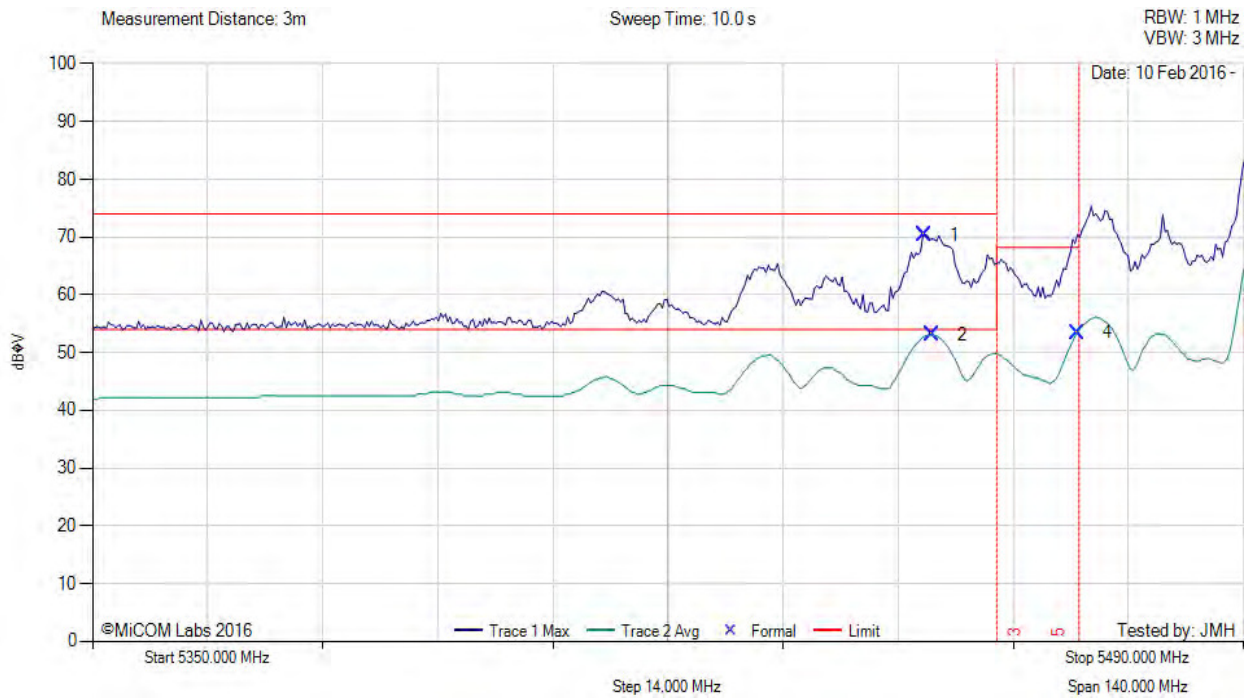


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 247 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5530.00 MHz, Antenna: AP-ANT-40, Power Setting: 13.5, Duty Cycle (%): 100



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	5451.18	32.31	3.78	34.30	70.39	Max Peak	Horizontal	148	24	74.0	-3.6	Pass
2	5452.16	15.01	3.78	34.30	53.09	Max Avg	Horizontal	148	24	54.0	-0.9	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	15.39	3.79	34.32	53.50	Max Avg	Horizontal	153	30	68.2*	-14.7	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

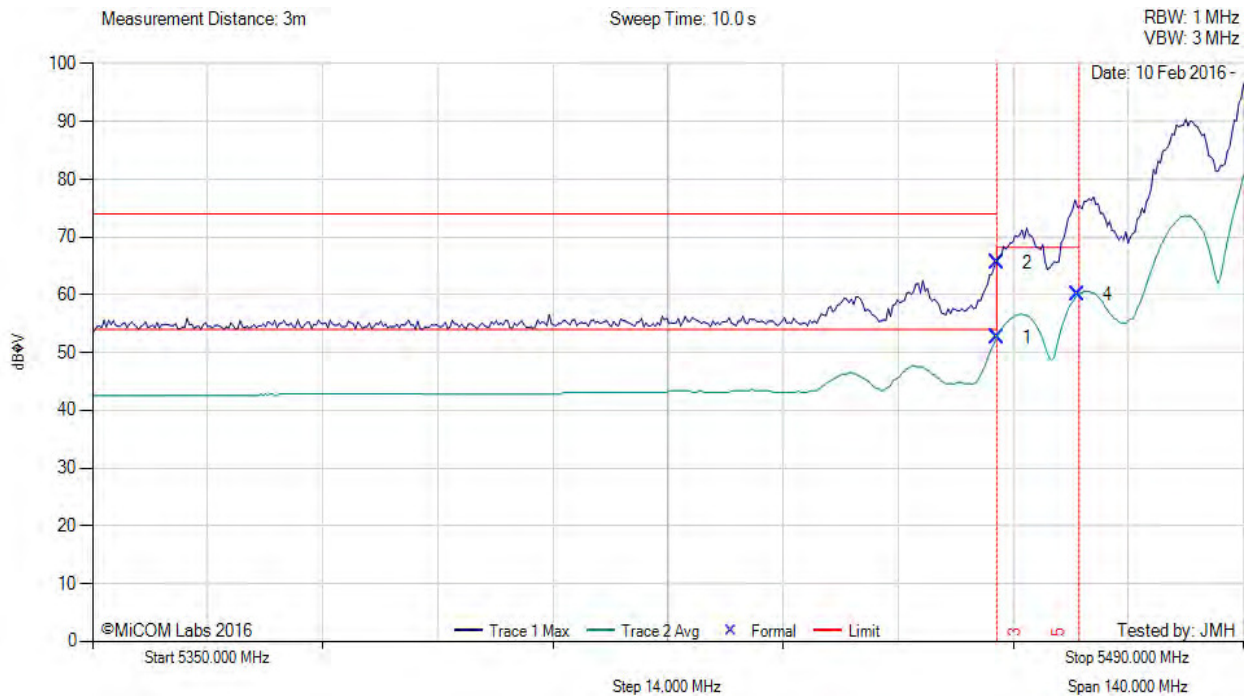


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 248 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5500.00 MHz, Antenna: AP-ANT-40, Power Setting: 18.5, Duty Cycle (%): 100



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	5460.00	14.47	3.79	34.31	52.57	Max Avg	Horizontal	148	24	54.0	-1.4	Pass
2	5460.00	27.53	3.79	34.31	65.63	Max Peak	Horizontal	148	24	74.0	-8.4	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	21.97	3.79	34.32	60.08	Max Avg	Horizontal	153	30	68.2*	-8.2	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

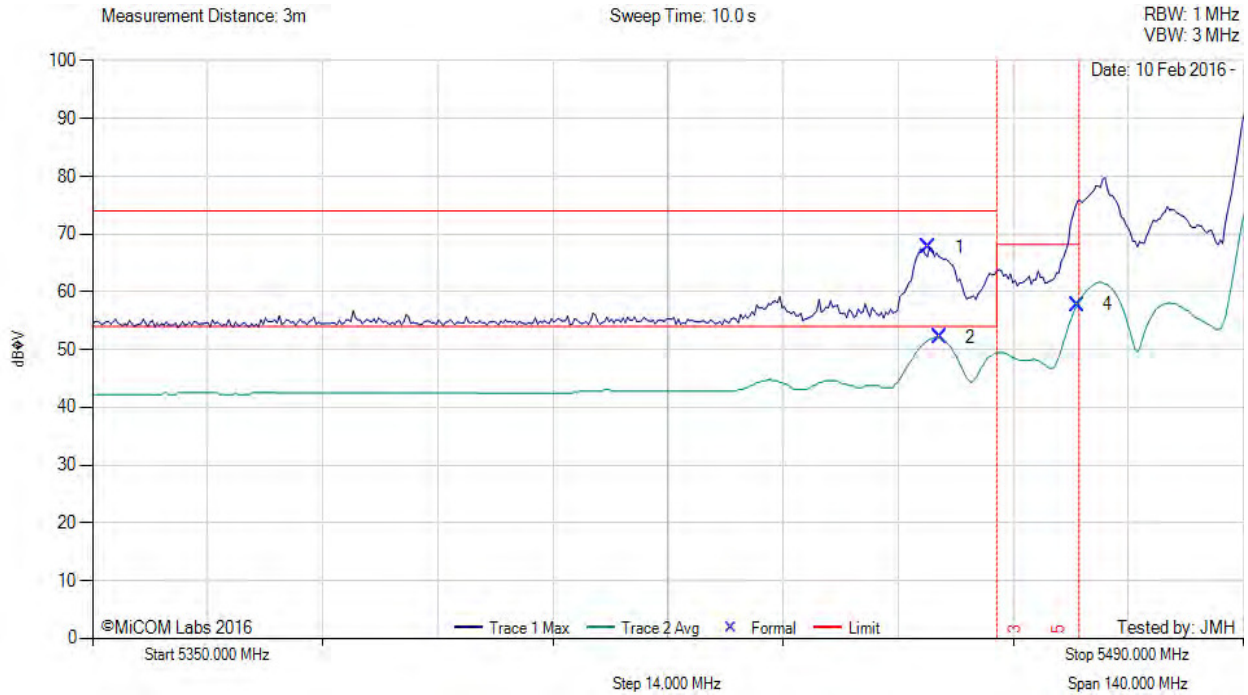


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 249 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5510.00 MHz, Antenna: AP-ANT-40, Power Setting: 16, Duty Cycle (%): 100



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	5451.74	29.60	3.78	34.30	67.68	Max Peak	Horizontal	148	24	74.0	-6.3	Pass
2	5453.01	14.03	3.79	34.30	52.12	Max Avg	Horizontal	148	24	54.0	-1.9	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	19.62	3.79	34.32	57.73	Max Avg	Horizontal	153	30	68.2*	-10.5	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

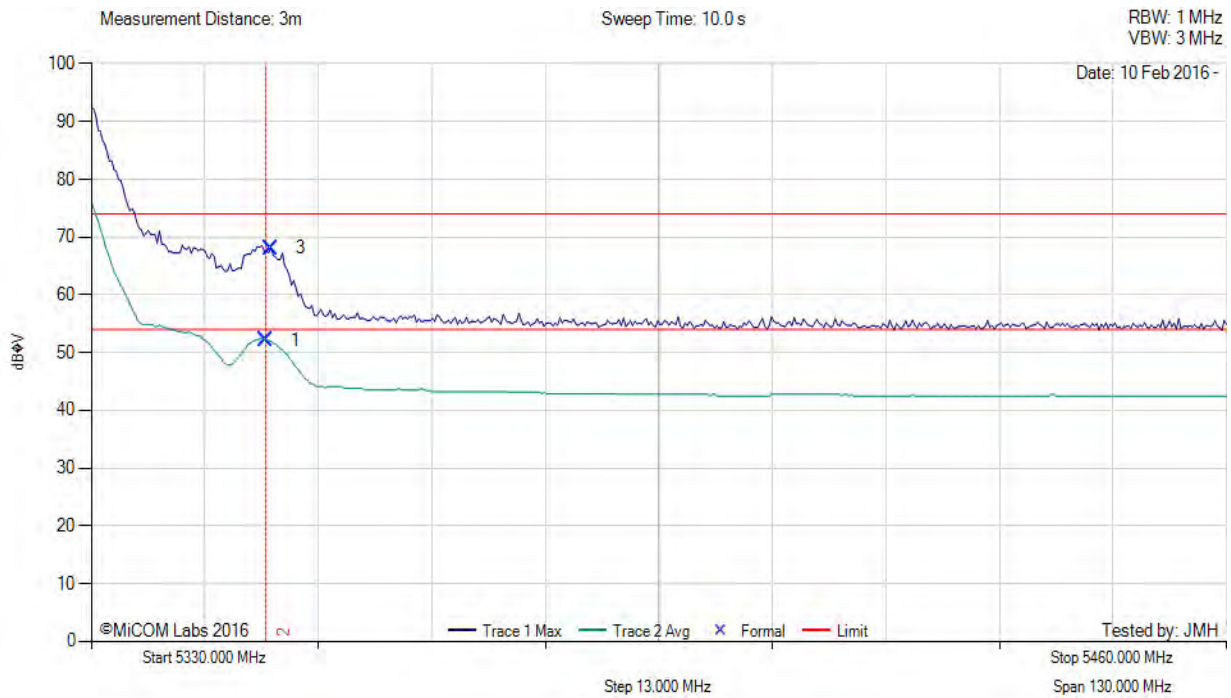


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 250 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-40, Power Setting: 16.5, Duty Cycle (%): 100



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	14.00	3.70	34.51	52.21	Max Avg	Horizontal	157	321	54.0	-1.8	Pass
2	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--
3	5350.52	29.85	3.71	34.51	68.07	Max Peak	Horizontal	157	321	74.0	-5.9	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

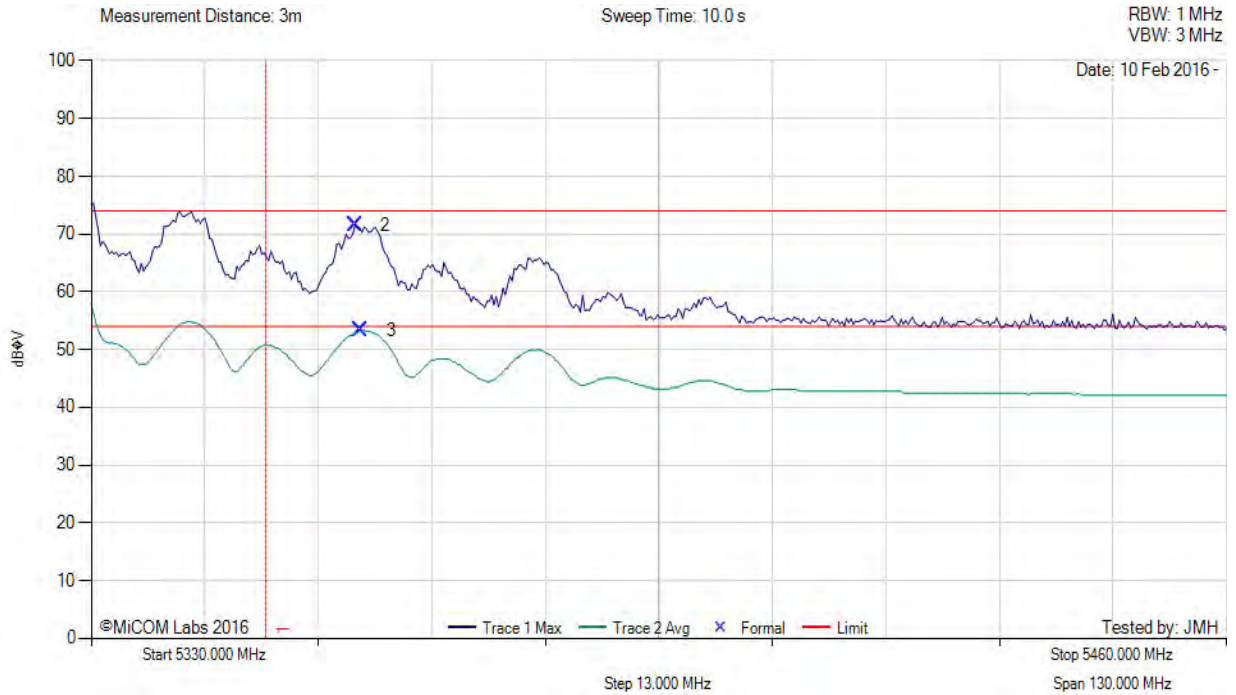


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 251 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-40, Power Setting: 13, Duty Cycle (%): 100



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	--	--	--	--	Band-Edge	--	--	--	--	--	--
2	5360.26	33.38	3.70	34.49	71.57	Max Peak	Horizontal	157	321	74.0	-2.4	Pass
3	5360.90	15.10	3.70	34.48	53.28	Max Avg	Horizontal	157	321	54.0	-0.7	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

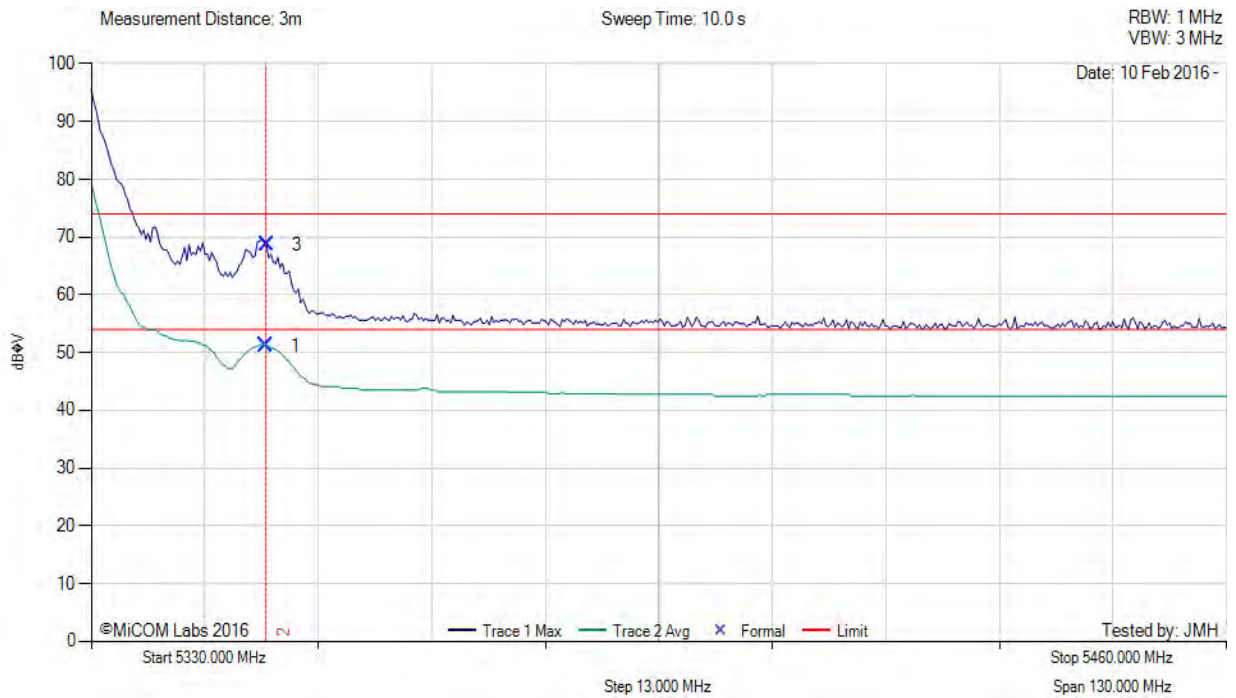


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 252 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5320.00 MHz, Antenna: AP-ANT-40, Power Setting: 16.5, Duty Cycle (%): 100



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	12.91	3.70	34.51	51.12	Max Avg	Horizontal	157	321	54.0	-2.9	Pass
3	5350.10	30.52	3.70	34.51	68.73	Max Peak	Horizontal	157	321	74.0	-5.3	Pass
2	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

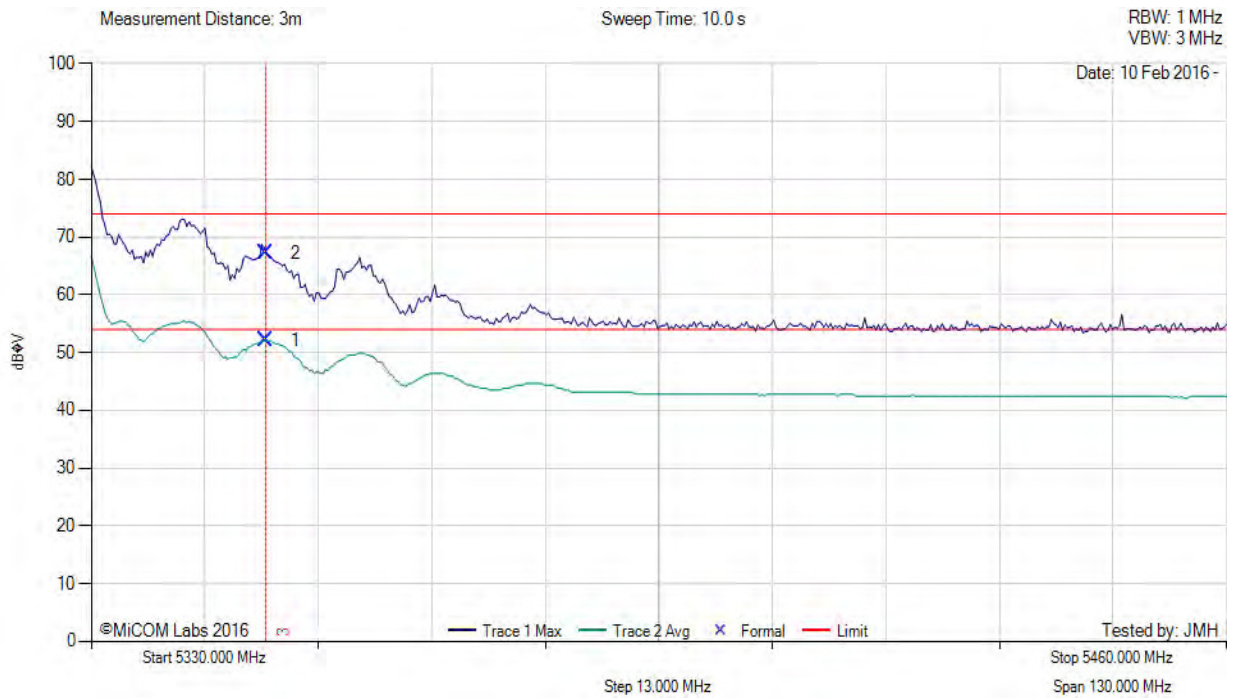


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 253 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5310.00 MHz, Antenna: AP-ANT-40, Power Setting: 15.5, Duty Cycle (%): 100



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	5349.96	13.89	3.70	34.51	52.10	Max Avg	Horizontal	157	321	54.0	-1.9	Pass
2	5350.00	28.99	3.70	34.51	67.20	Max Peak	Horizontal	157	321	74.0	-6.8	Pass
3	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

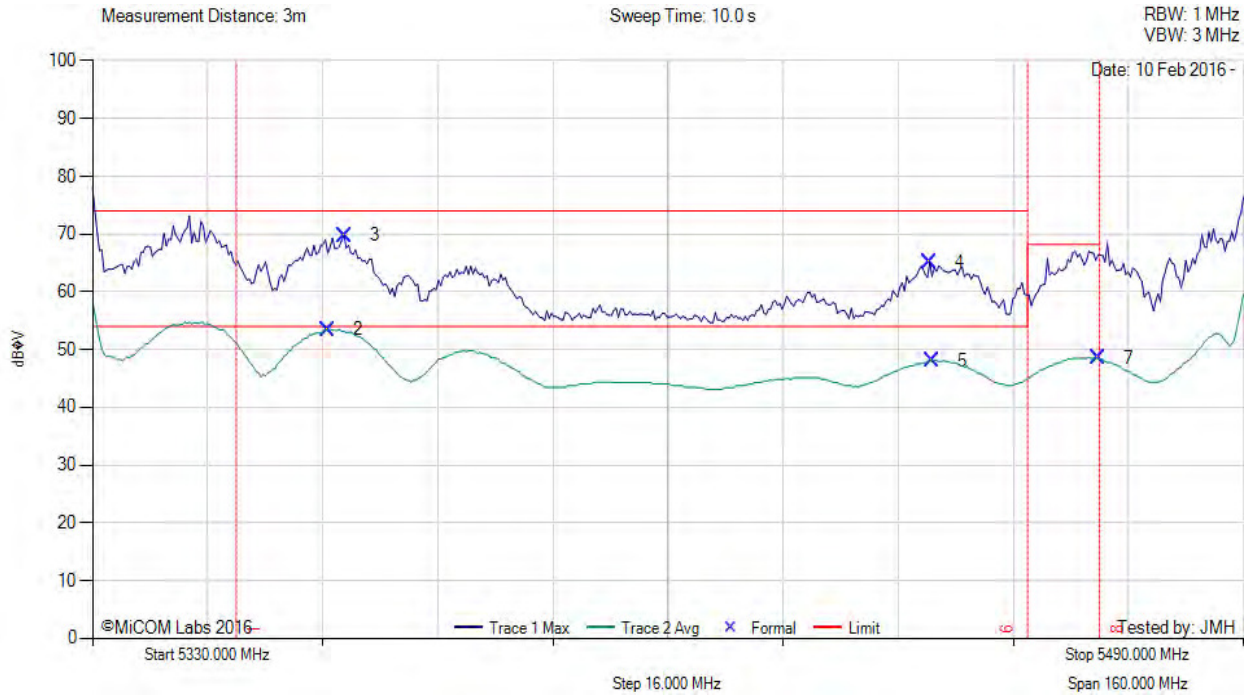


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 254 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-40, Power Setting: 14, Duty Cycle (%): 100



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	--	--	--	--	Restricted Band	--	--	--	--	--	--
2	5362.73	15.30	3.70	34.48	53.48	Max Avg	Horizontal	157	321	54.0	-0.5	Pass
3	5364.99	31.63	3.69	34.47	69.79	Max Peak	Horizontal	157	321	74.0	-4.2	Pass
4	5446.39	26.86	3.70	34.51	65.07	Max Peak	Horizontal	157	321	74.0	-8.9	Pass
5	5446.71	9.91	3.70	34.51	48.12	Max Avg	Horizontal	157	321	54.0	-5.9	Pass
6	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
7	5469.80	10.38	3.79	34.32	48.49	Max Avg	Horizontal	153	30	68.2*	-19.7	Pass
8	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

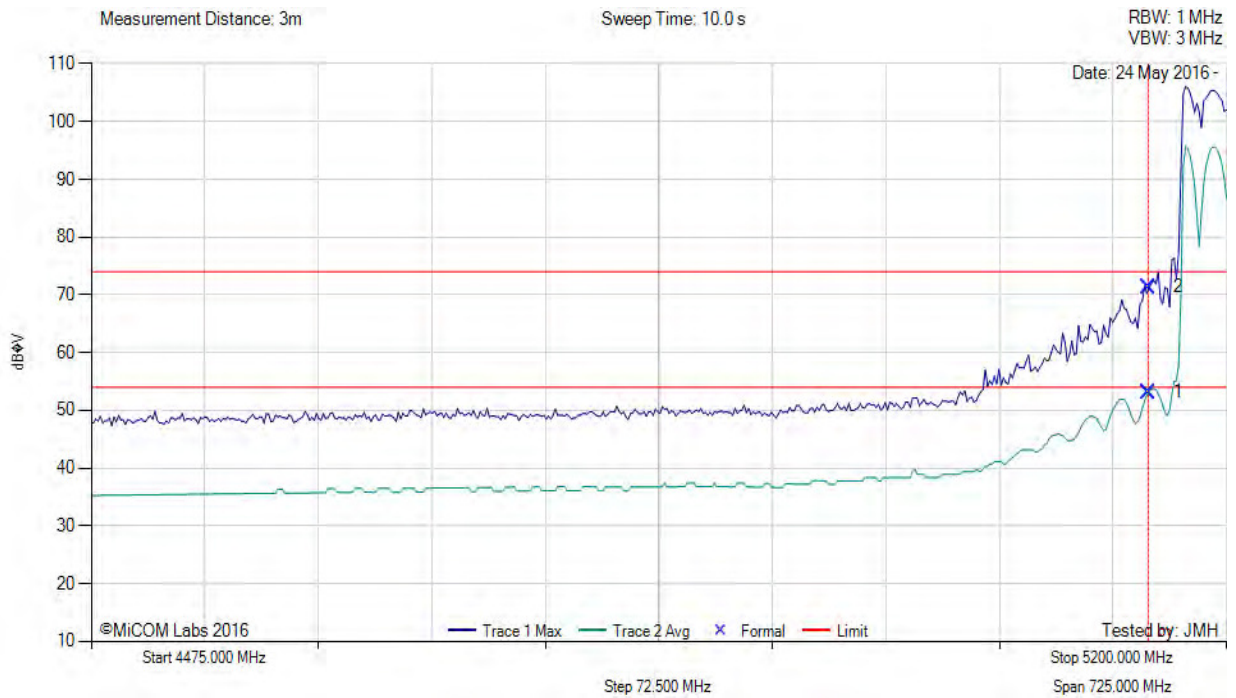


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 255 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-40, Power Setting: 13.5, Duty Cycle (%): 91



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	15.37	3.67	34.11	53.15	Max Avg	Horizontal	200	42	54.0	-0.9	Pass
2	5150.00	33.58	3.67	34.11	71.36	Max Peak	Horizontal	200	42	74.0	-2.6	Pass
3	5150.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

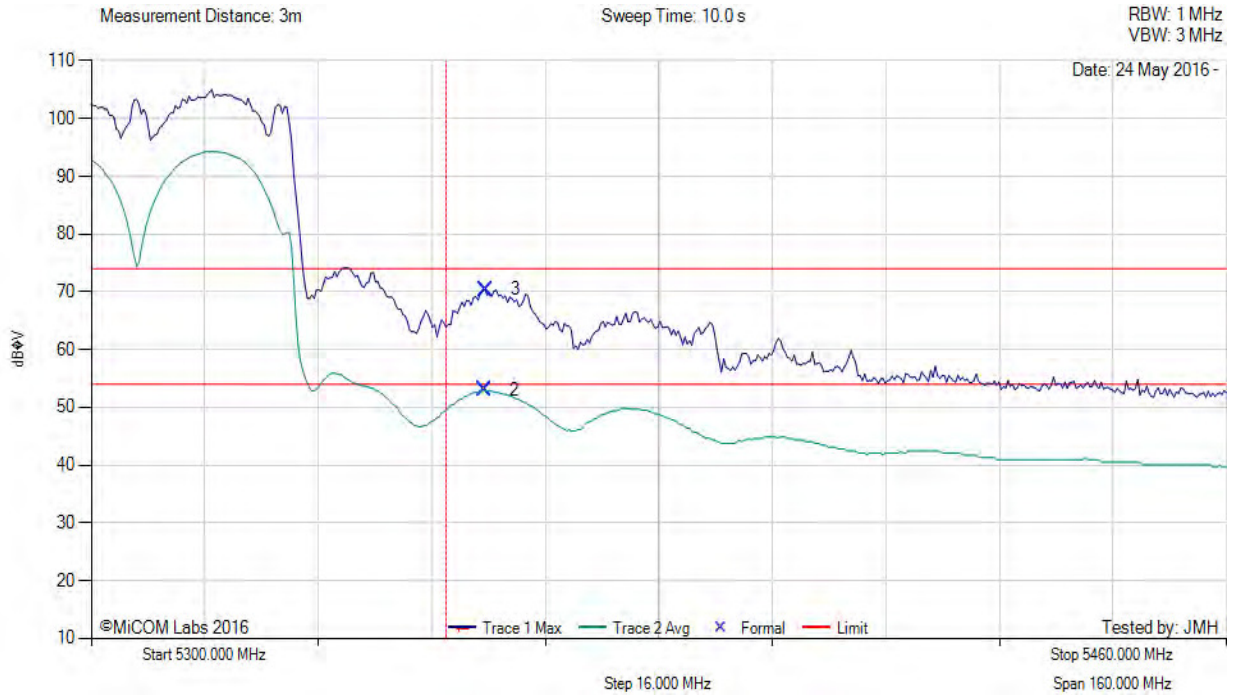


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 256 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-40, Power Setting: 13.5, Duty Cycle (%): 91



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	--	--	--	--	Band Edge	--	--	--	--	--	--
2	5355.39	14.77	3.71	34.50	52.98	Max Avg	Horizontal	200	42	54.0	-1.0	Pass
3	5355.57	32.23	3.71	34.50	70.44	Max Peak	Horizontal	200	42	74.0	-3.6	Pass

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

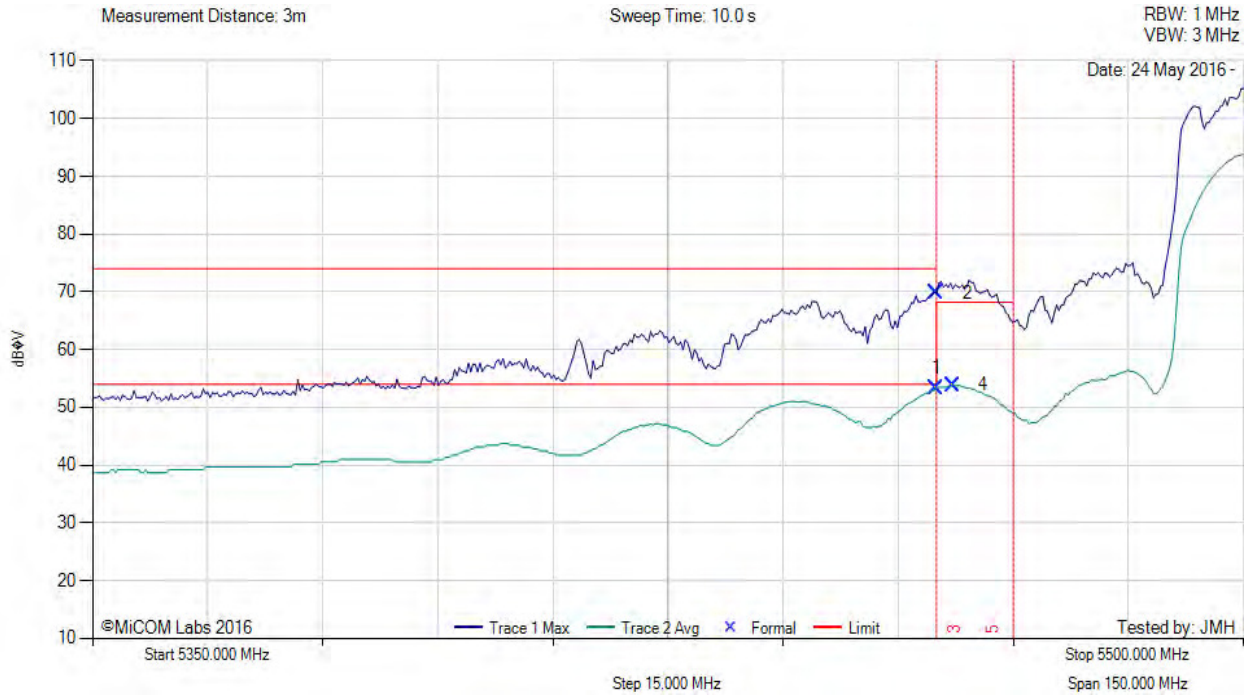


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 257 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5570.00 MHz, Antenna: AP-ANT-40, Power Setting: 14, Duty Cycle (%): 91



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	5460.00	15.20	3.79	34.31	53.30	Max Avg	Horizontal	141	41	54.0	-0.7	Pass
2	5460.00	31.70	3.79	34.31	69.80	Max Peak	Horizontal	141	41	74.0	-4.2	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5462.12	15.77	3.79	34.31	53.87	Max Avg	Horizontal	153	30	68.2*	-14.4	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

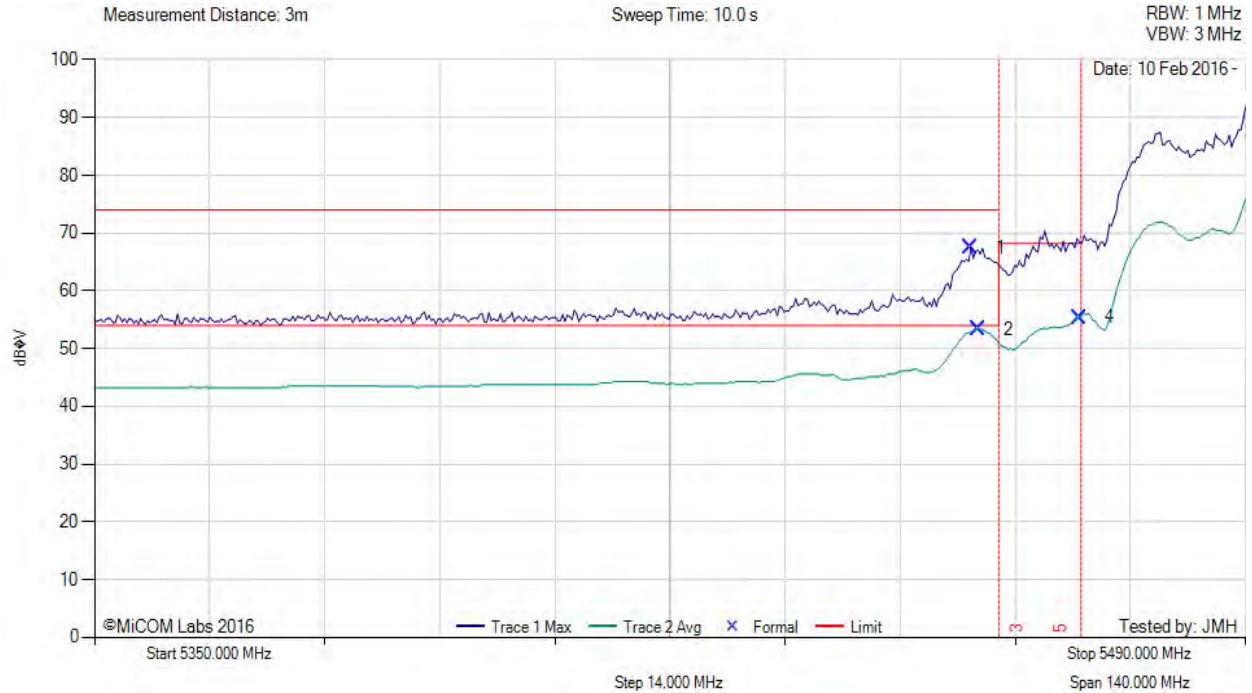


A.1.2.6. AP-ANT-45



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-45, Power Setting: 18, Duty Cycle (%): 100



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	5456.51	29.33	3.80	34.30	67.43	Max Peak	Horizontal	163	22	74.0	-6.6	Pass
2	5457.49	15.29	3.80	34.30	53.39	Max Avg	Horizontal	163	22	54.0	-0.6	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	17.30	3.79	34.32	55.41	Max Avg	Horizontal	153	30	68.2*	-12.8	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

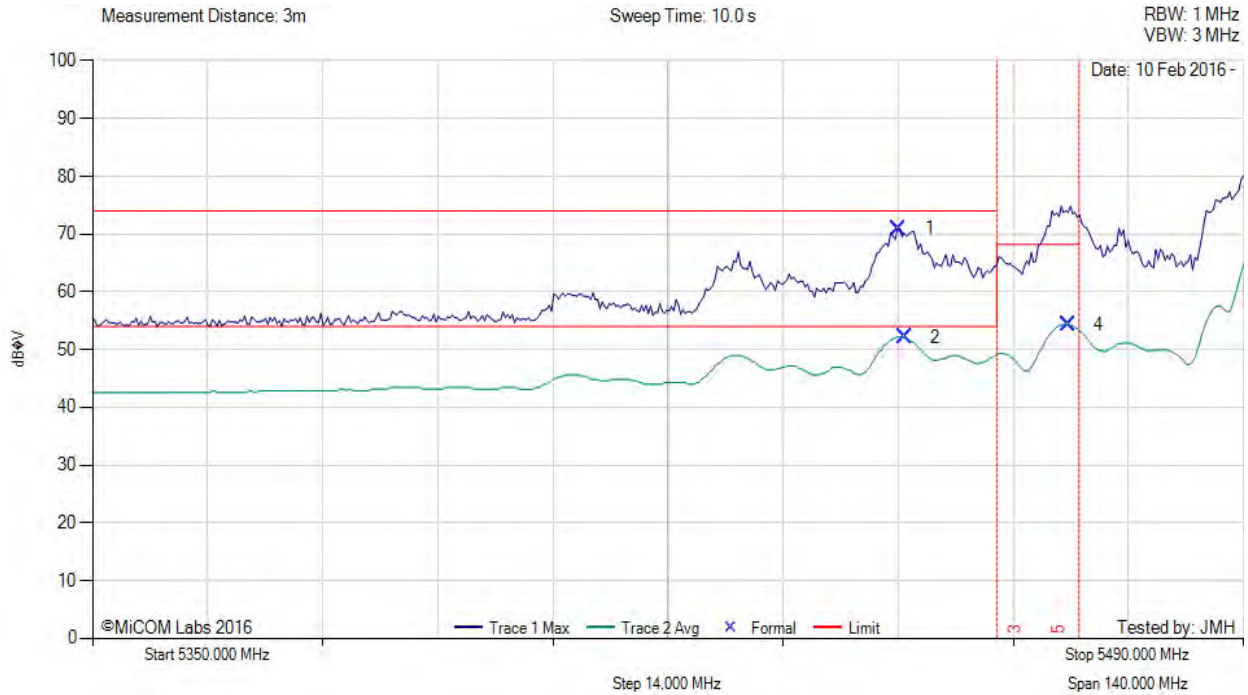


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 259 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5530.00 MHz, Antenna: AP-ANT-45, Power Setting: 13, Duty Cycle (%): 100



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	5448.10	32.92	3.77	34.30	70.99	Max Peak	Horizontal	163	22	74.0	-3.0	Pass
2	5448.80	14.04	3.77	34.30	52.11	Max Avg	Horizontal	163	22	54.0	-1.9	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5468.68	16.23	3.79	34.32	54.34	Max Avg	Horizontal	153	30	68.2*	-13.9	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

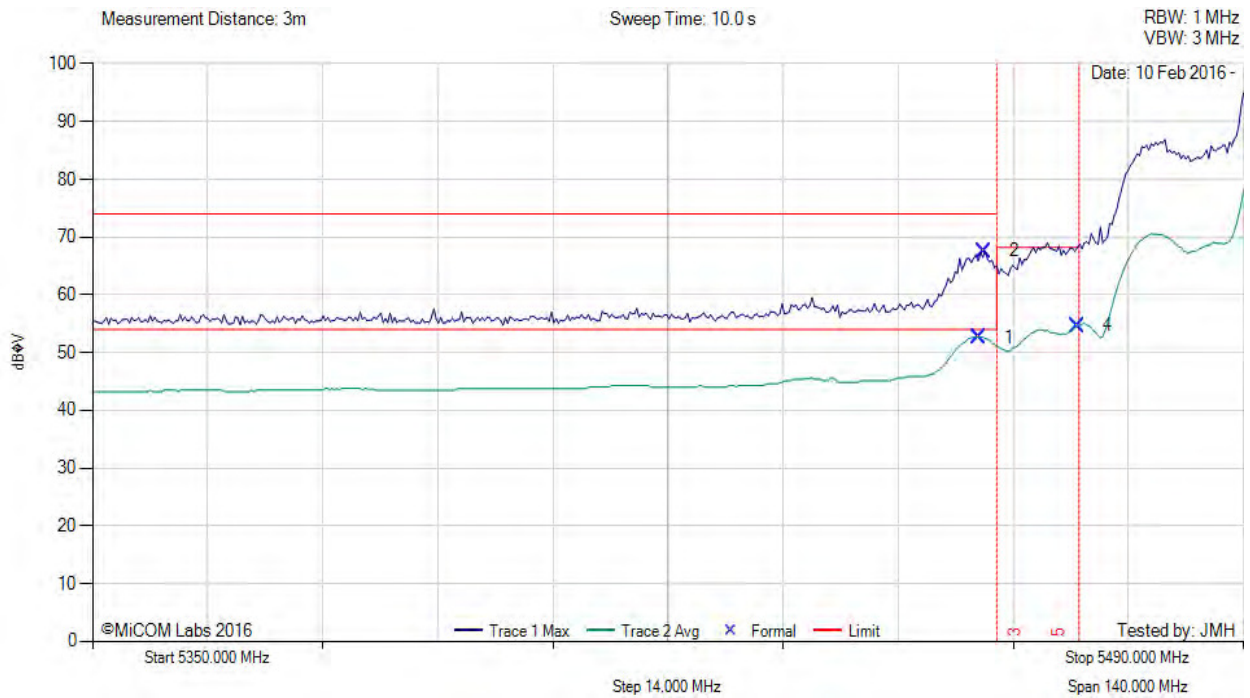


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 260 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5500.00 MHz, Antenna: AP-ANT-45, Power Setting: 18, Duty Cycle (%): 100



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	5457.78	14.57	3.80	34.30	52.67	Max Avg	Horizontal	163	22	54.0	-1.3	Pass
2	5458.48	29.47	3.80	34.30	67.57	Max Peak	Horizontal	163	22	74.0	-6.4	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	16.57	3.79	34.32	54.68	Max Avg	Horizontal	153	30	68.2*	-13.6	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

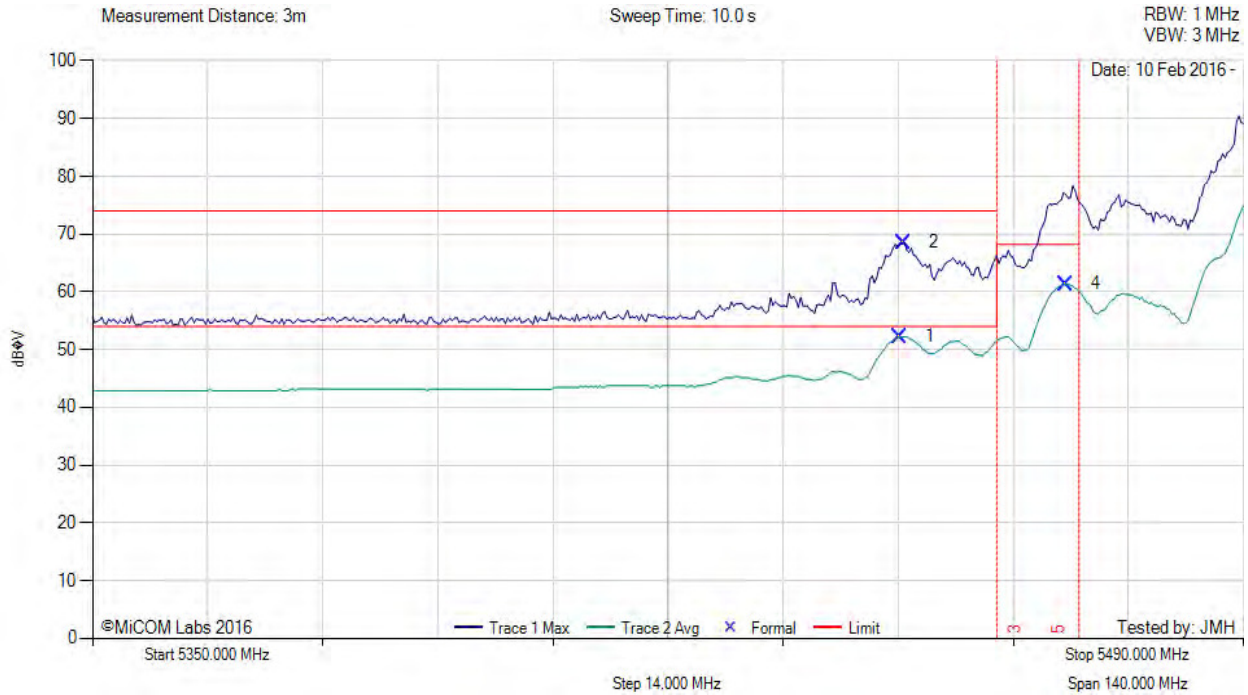


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 261 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5510.00 MHz, Antenna: AP-ANT-45, Power Setting: 16, Duty Cycle (%): 100



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	5448.24	14.16	3.77	34.30	52.23	Max Avg	Horizontal	163	22	54.0	-1.8	Pass
2	5448.66	30.49	3.77	34.30	68.56	Max Peak	Horizontal	163	22	74.0	-5.4	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5468.40	23.26	3.79	34.31	61.36	Max Avg	Horizontal	153	30	68.2*	-6.9	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

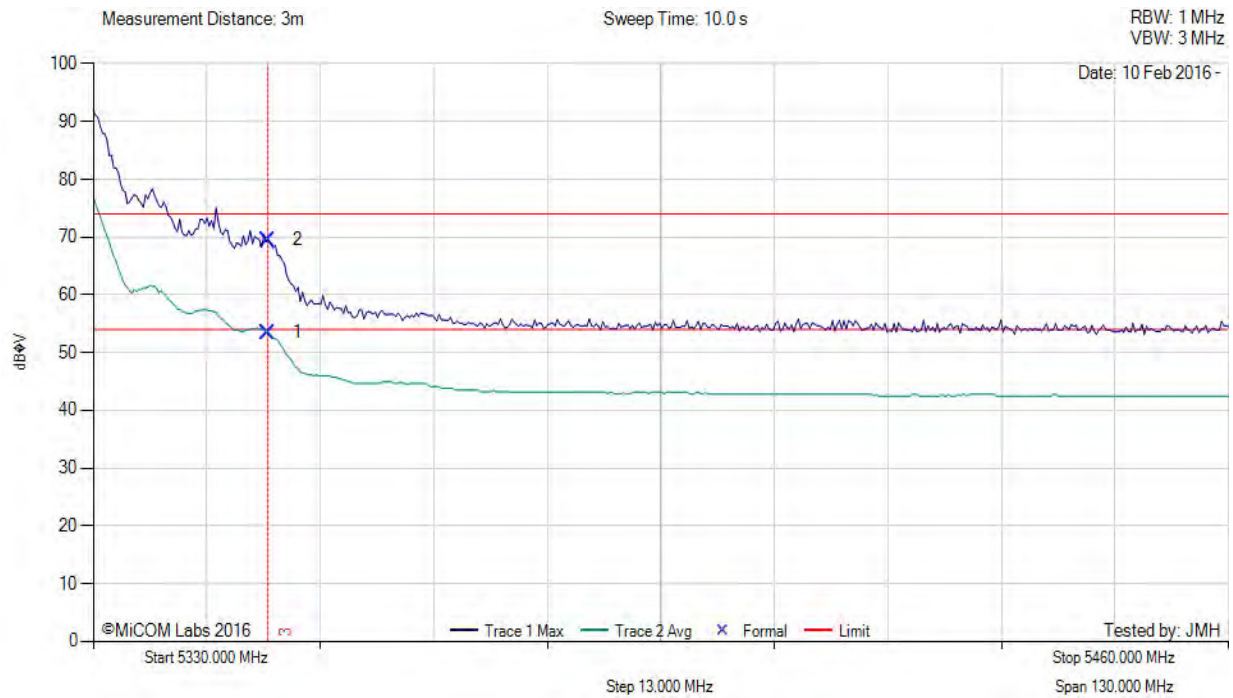


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 262 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-45, Power Setting: 17, Duty Cycle (%): 100



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	15.27	3.70	34.51	53.48	Max Avg	Horizontal	167	345	54.0	-0.5	Pass
2	5350.00	31.33	3.70	34.51	69.54	Max Peak	Horizontal	167	345	74.0	-4.5	Pass
3	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

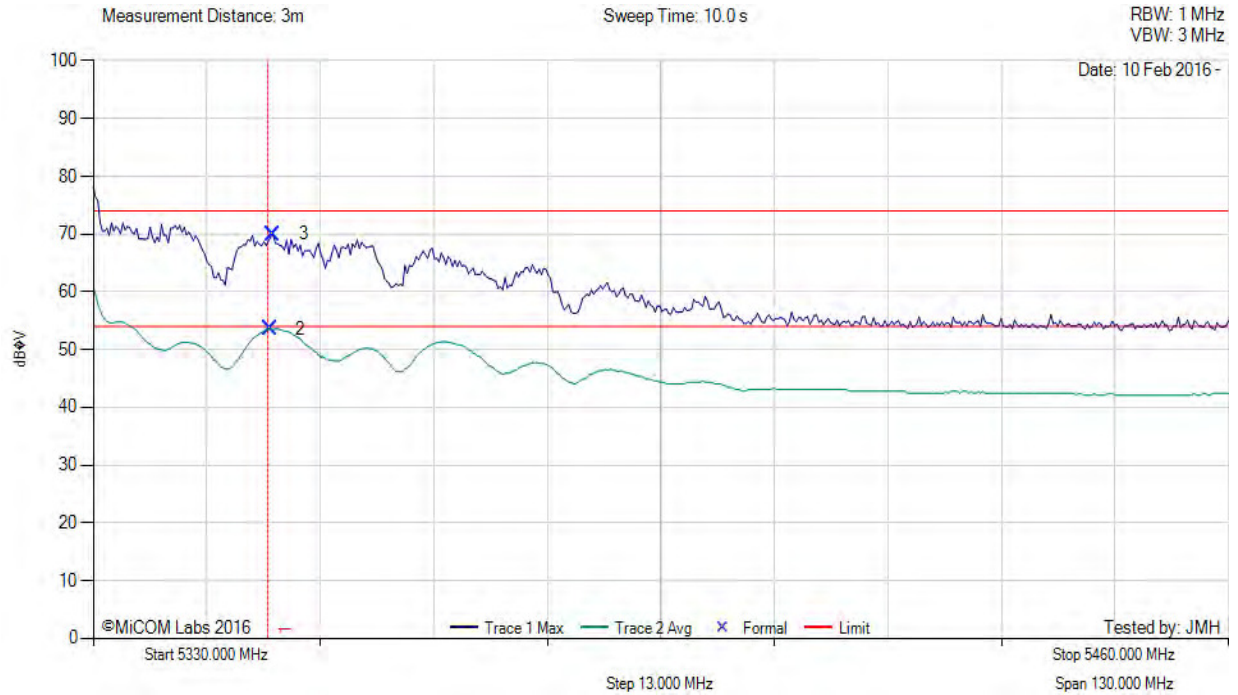


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 263 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-45, Power Setting: 13, Duty Cycle (%): 100



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	--	--	--	--	Band-Edge	--	--	--	--	--	--
2	5350.22	15.37	3.70	34.51	53.58	Max Avg	Horizontal	167	345	54.0	-0.4	Pass
3	5350.62	31.75	3.71	34.51	69.97	Max Peak	Horizontal	167	345	74.0	-4.0	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

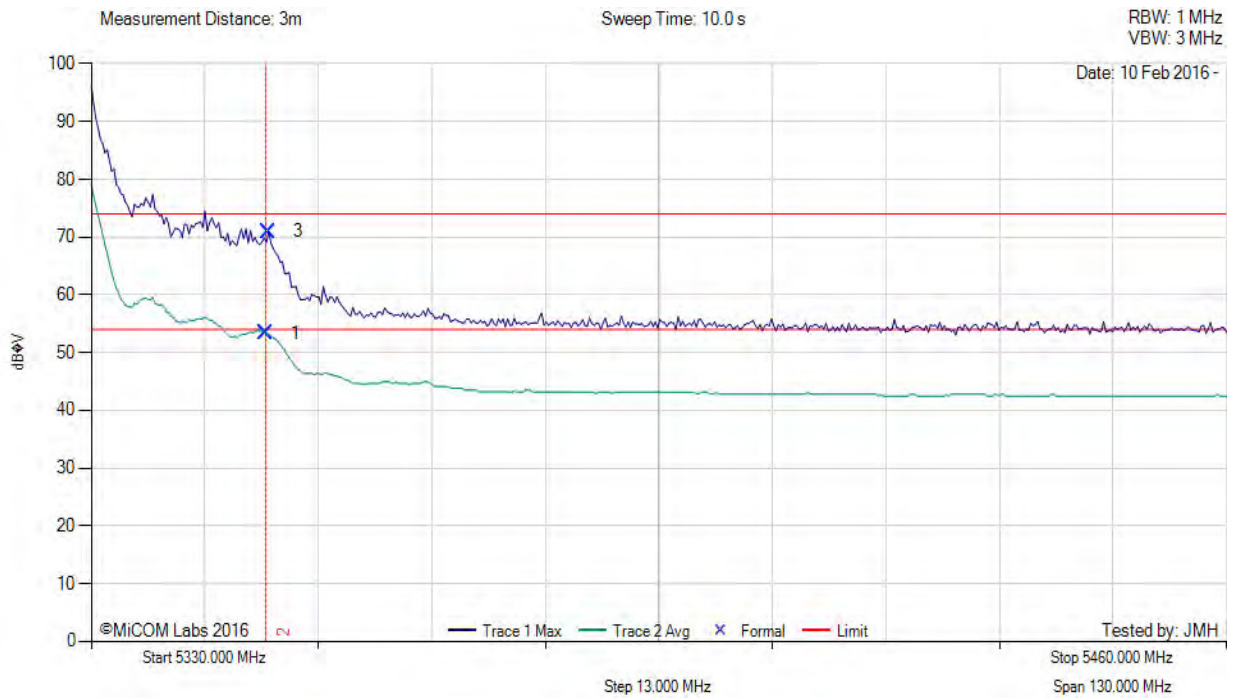


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 264 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5320.00 MHz, Antenna: AP-ANT-45, Power Setting: 17, Duty Cycle (%): 100



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	15.18	3.70	34.51	53.39	Max Avg	Horizontal	167	345	54.0	-0.6	Pass
2	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--
3	5350.26	32.75	3.70	34.51	70.96	Max Peak	Horizontal	167	345	74.0	-3.0	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

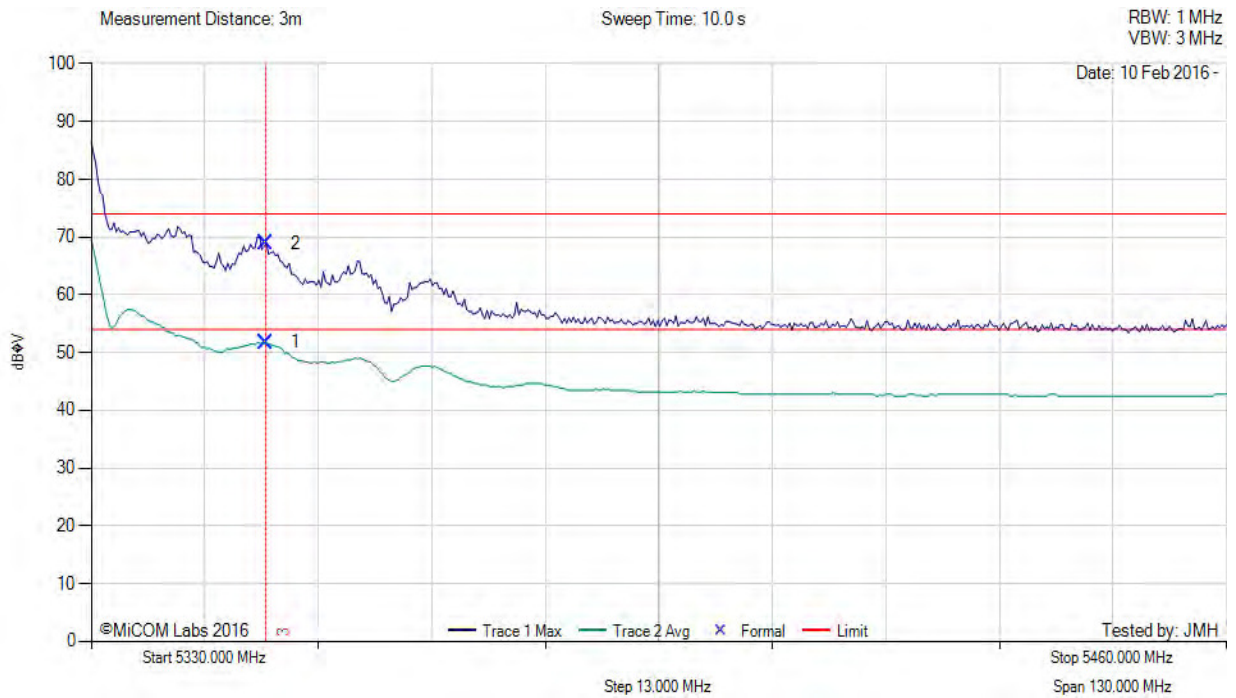


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 265 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5310.00 MHz, Antenna: AP-ANT-45, Power Setting: 15.5, Duty Cycle (%): 100



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	13.53	3.70	34.51	51.74	Max Avg	Horizontal	167	345	54.0	-2.3	Pass
2	5350.00	30.64	3.70	34.51	68.85	Max Peak	Horizontal	167	345	74.0	-5.2	Pass
3	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

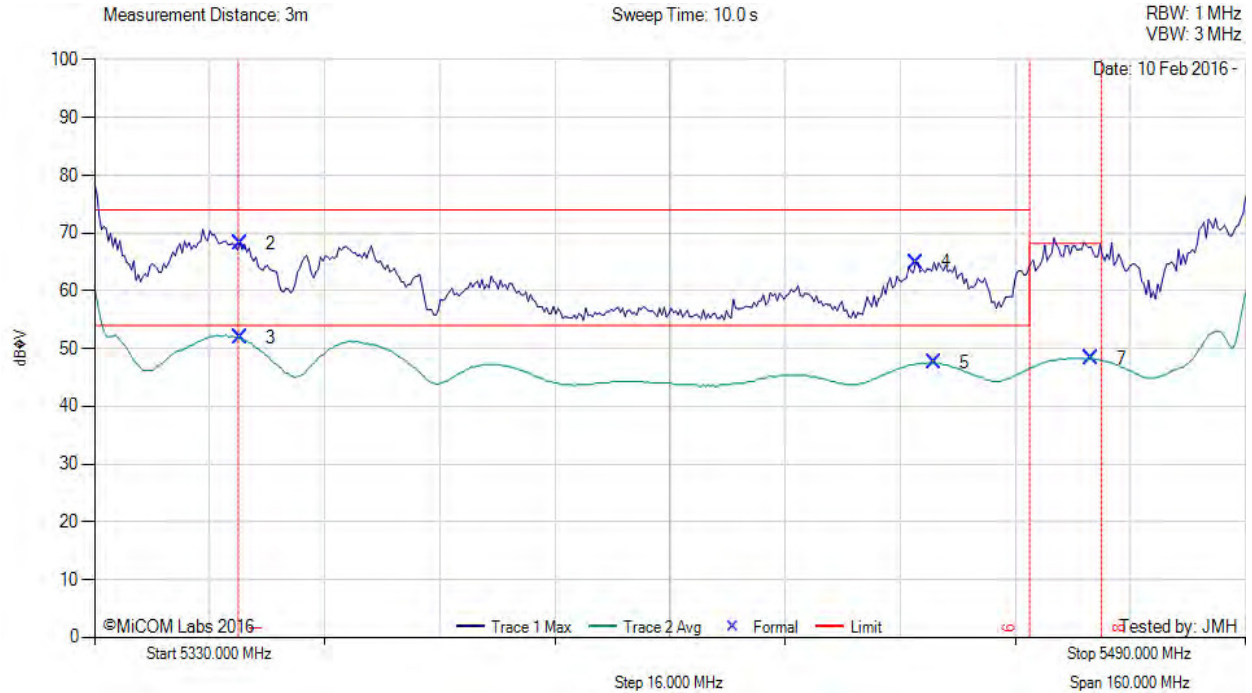


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 266 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-45, Power Setting: 13.5, Duty Cycle (%): 100



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	--	--	--	--	Restricted Band	--	--	--	--	--	--
2	5350.24	29.99	3.70	34.51	68.20	Max Peak	Horizontal	167	345	74.0	-5.8	Pass
3	5350.32	13.65	3.70	34.51	51.86	Max Avg	Horizontal	167	345	54.0	-2.1	Pass
4	5444.14	26.90	3.77	34.30	64.97	Max Peak	Horizontal	163	22	74.0	-9.0	Pass
5	5446.71	9.49	3.77	34.30	47.56	Max Avg	Horizontal	163	22	54.0	-6.4	Pass
6	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
7	5468.52	10.21	3.79	34.32	48.32	Max Avg	Horizontal	153	30	68.2*	-19.9	Pass
8	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

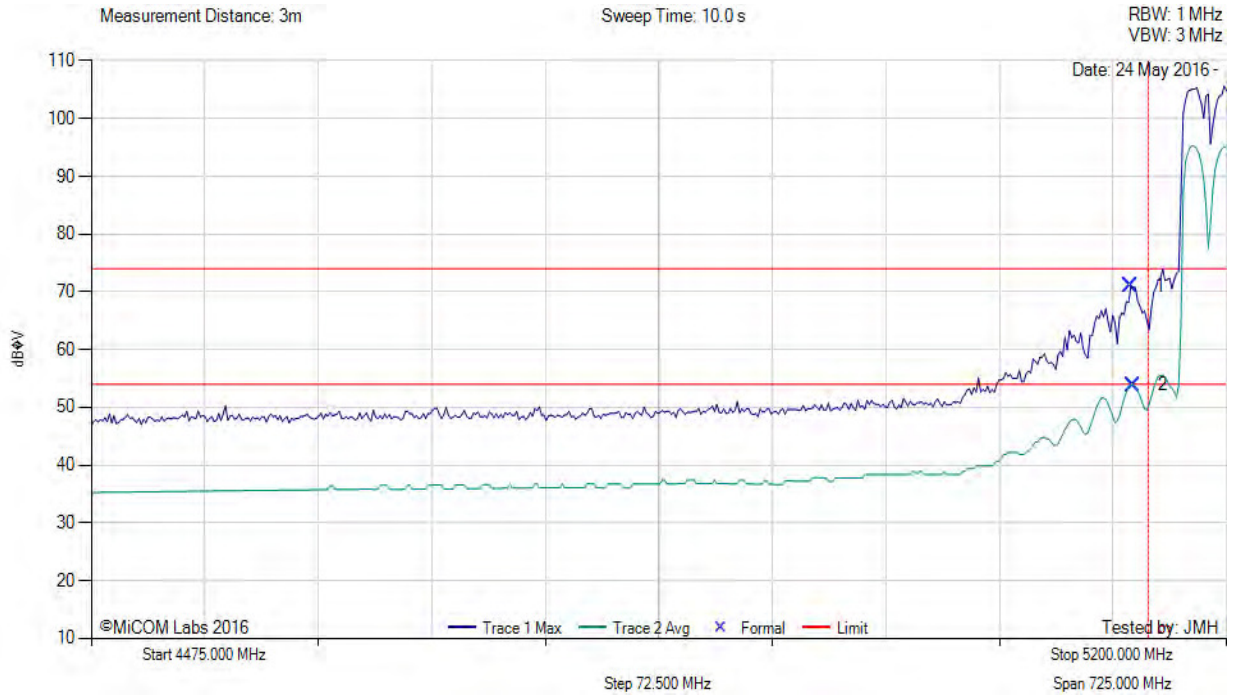


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 267 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-45, Power Setting: 13.5, Duty Cycle (%): 91



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	5138.73	33.12	3.70	34.12	70.94	Max Peak	Horizontal	151	6	74.0	-3.1	Pass
2	5140.18	16.08	3.70	34.12	53.90	Max Avg	Horizontal	151	6	54.0	-0.1	Pass
3	5150.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

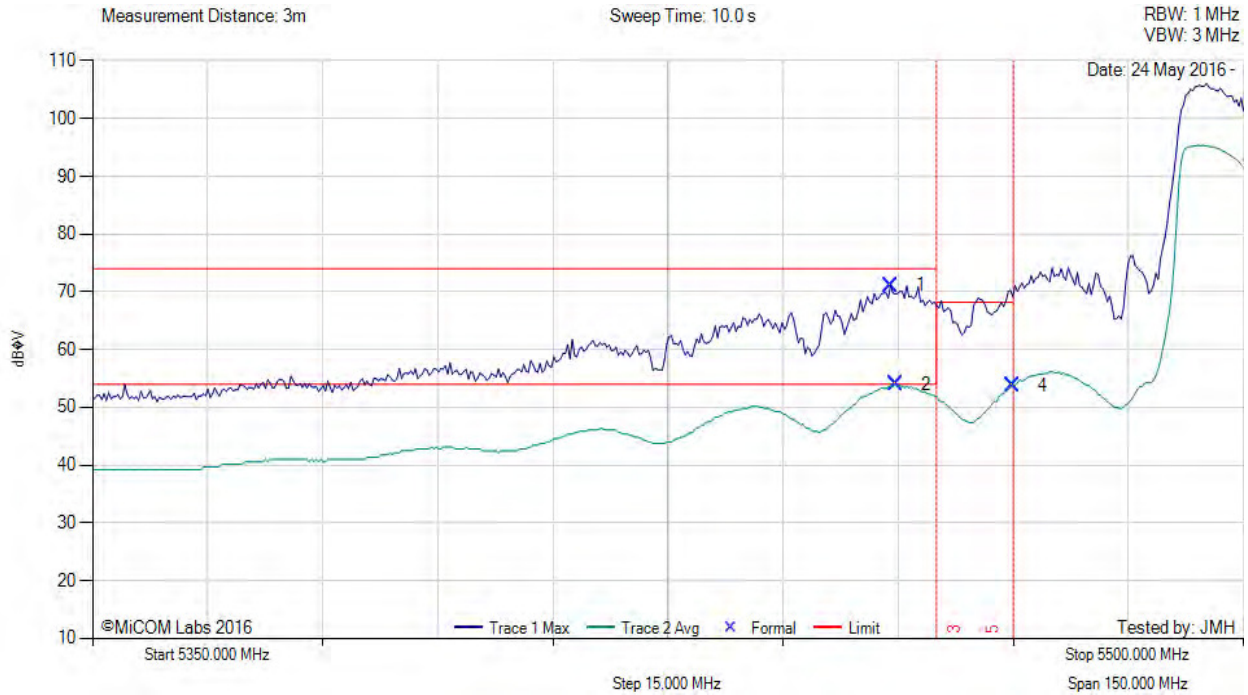


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 268 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5570.00 MHz, Antenna: AP-ANT-45, Power Setting: 14, Duty Cycle (%): 91



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	5454.01	33.02	3.79	34.30	71.11	Max Peak	Horizontal	150	6	74.0	-2.9	Pass
2	5454.71	15.87	3.79	34.30	53.96	Max Avg	Horizontal	150	6	54.0	0.0	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.94	15.67	3.79	-34.32	53.78	Max Avg	Horizontal	153	30	68.2*	-14.5	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

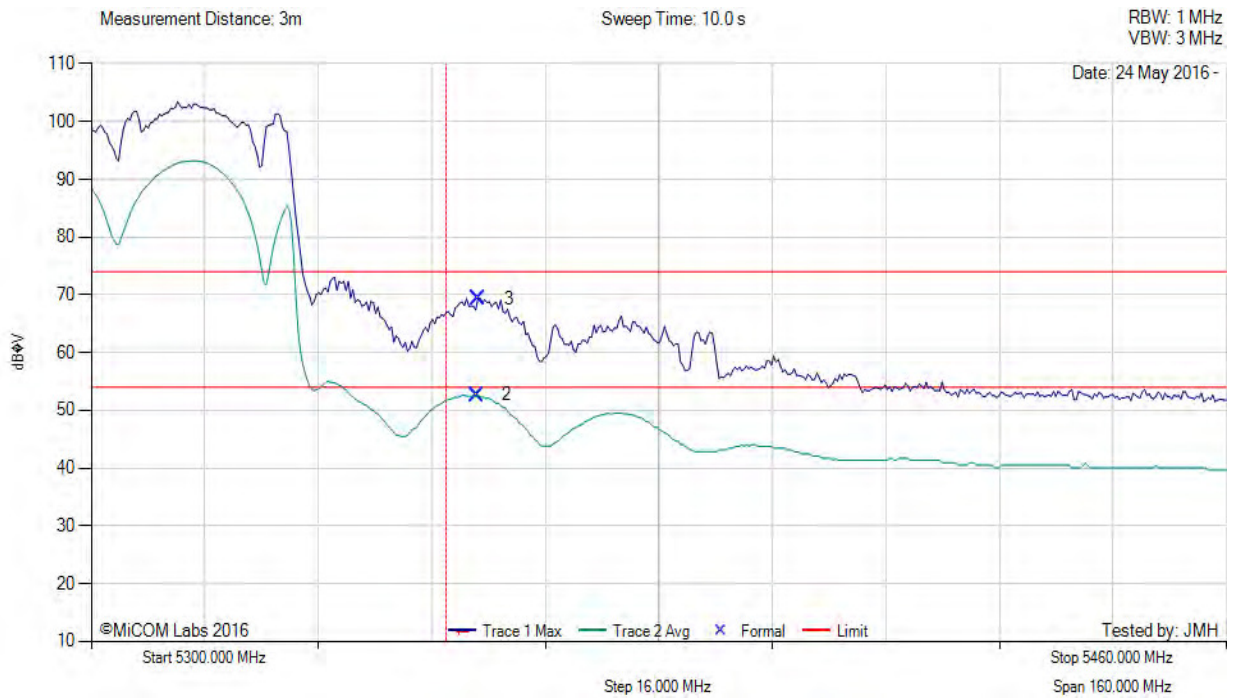


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 269 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-45, Power Setting: 13.5, Duty Cycle (%): 91



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	5354.35	14.45	3.71	34.50	52.66	Max Avg	Horizontal	151	6	54.0	-1.3	Pass
3	5354.61	31.18	3.71	34.50	69.39	Max Peak	Horizontal	151	6	74.0	-4.6	Pass
1	5350.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

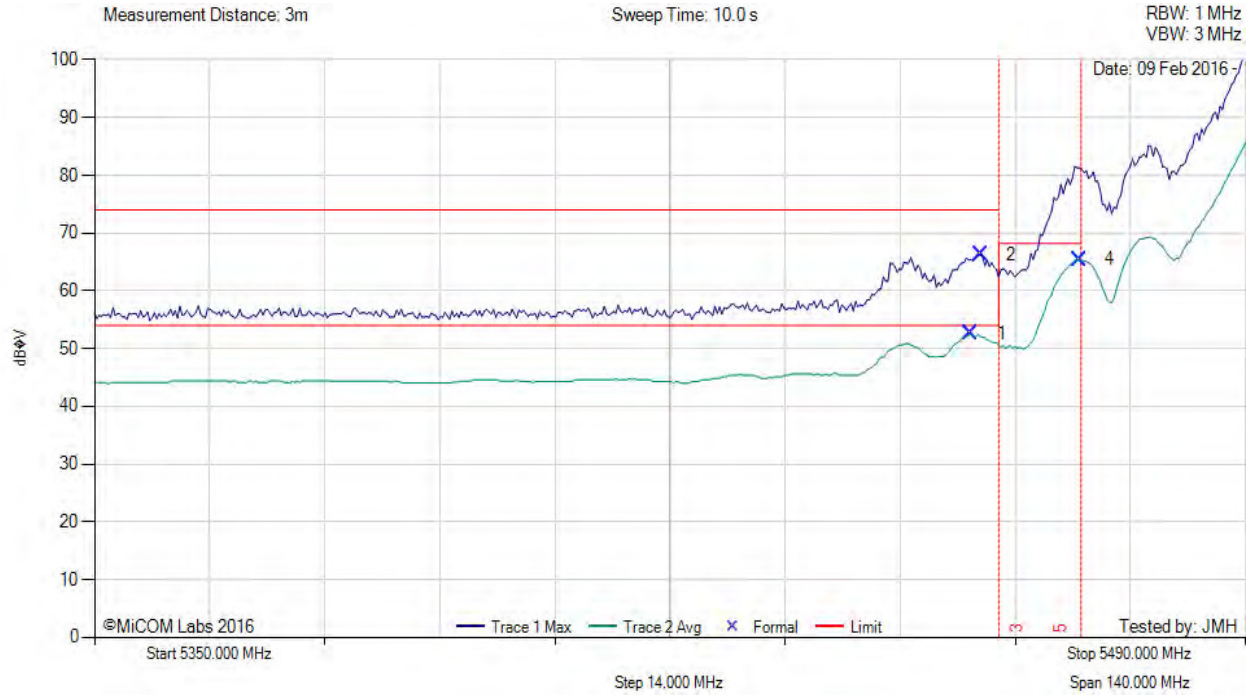


A.1.2.7. AP-ANT-48



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: AP-ANT-48, Power Setting: 18, Duty Cycle (%): 100



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	5456.63	14.46	3.80	34.30	52.56	Max Avg	Horizontal	154	347	54.0	-1.4	Pass
2	5457.76	28.18	3.80	34.30	66.28	Max Peak	Horizontal	154	347	74.0	-7.7	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	27.31	3.79	34.32	65.42	Max Avg	Horizontal	153	30	68.2*	-2.8	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

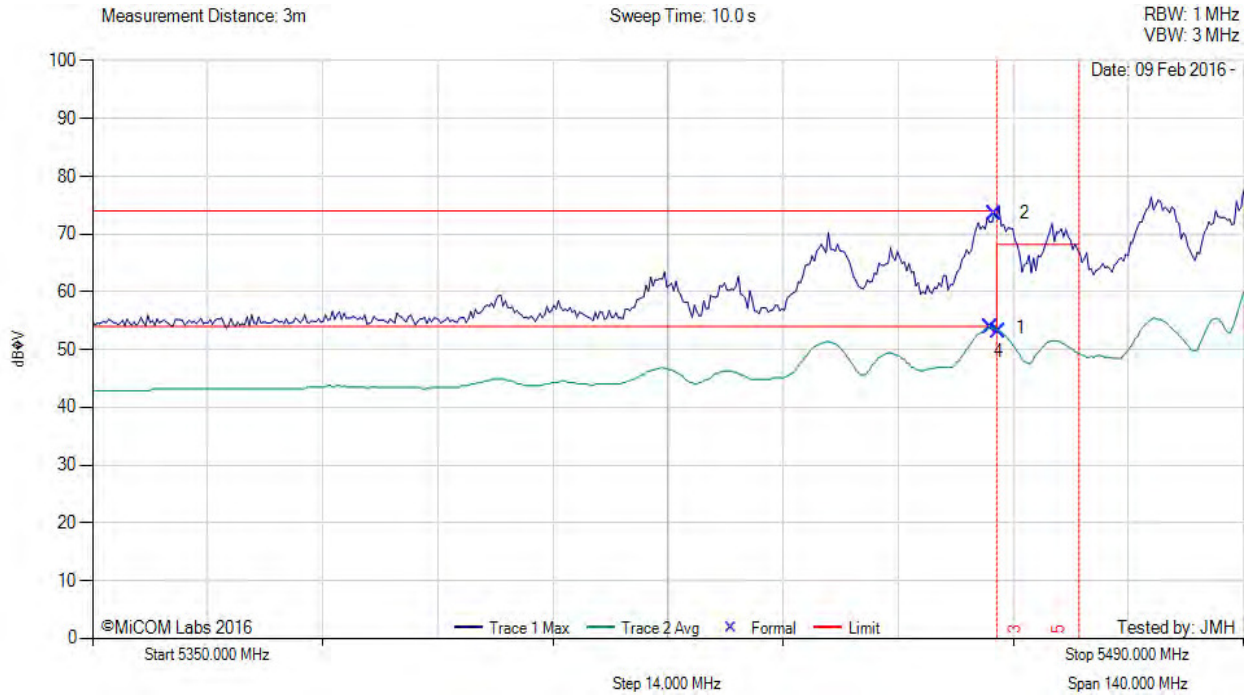


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 271 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5530.00 MHz, Antenna: AP-ANT-48, Power Setting: 12, Duty Cycle (%): 100



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	5459.18	15.68	3.79	34.31	53.78	Max Avg	Horizontal	154	347	54.0	-0.2	Pass
2	5459.72	35.47	3.79	34.31	73.57	Max Peak	Horizontal	154	347	74.0	-0.4	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5460.26	15.09	3.79	34.31	53.19	Max Avg	Horizontal	153	30	68.2*	-15.0	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

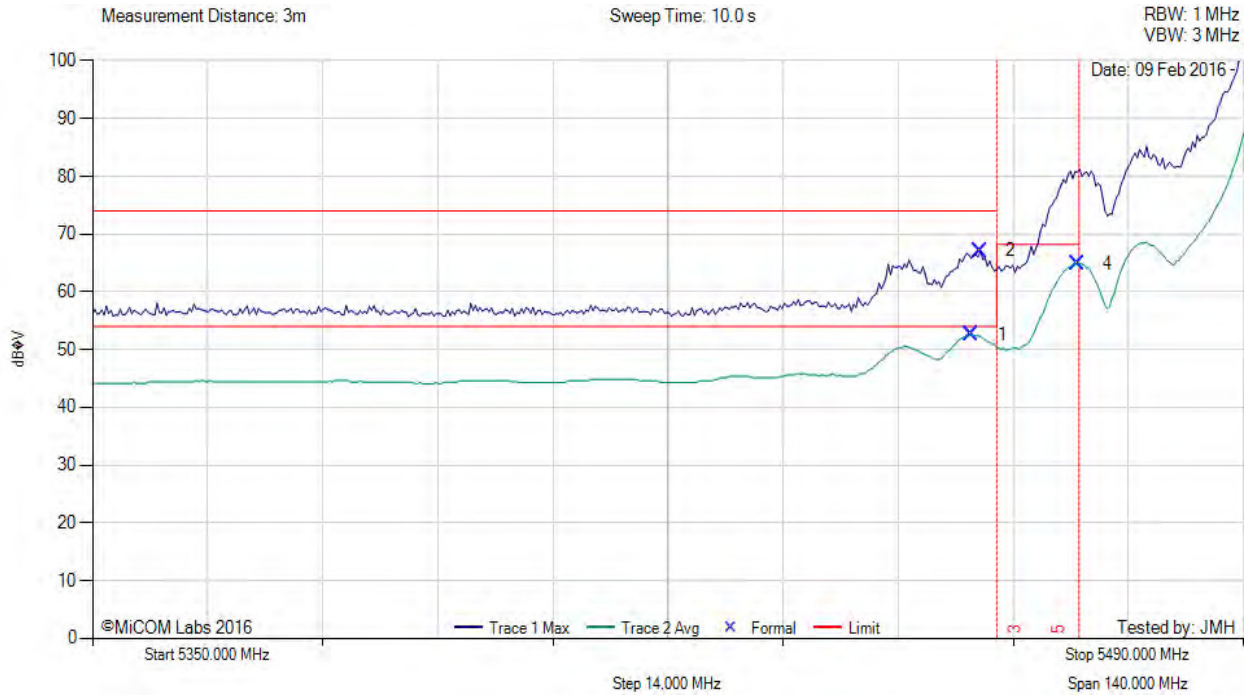


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 272 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5500.00 MHz, Antenna: AP-ANT-48, Power Setting: 18, Duty Cycle (%): 100



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	5456.93	14.47	3.80	34.30	52.57	Max Avg	Horizontal	154	347	54.0	-1.4	Pass
2	5457.92	28.99	3.80	34.30	67.09	Max Peak	Horizontal	154	347	74.0	-6.9	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	26.79	3.79	34.32	64.90	Max Avg	Horizontal	153	30	68.2*	-3.3	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

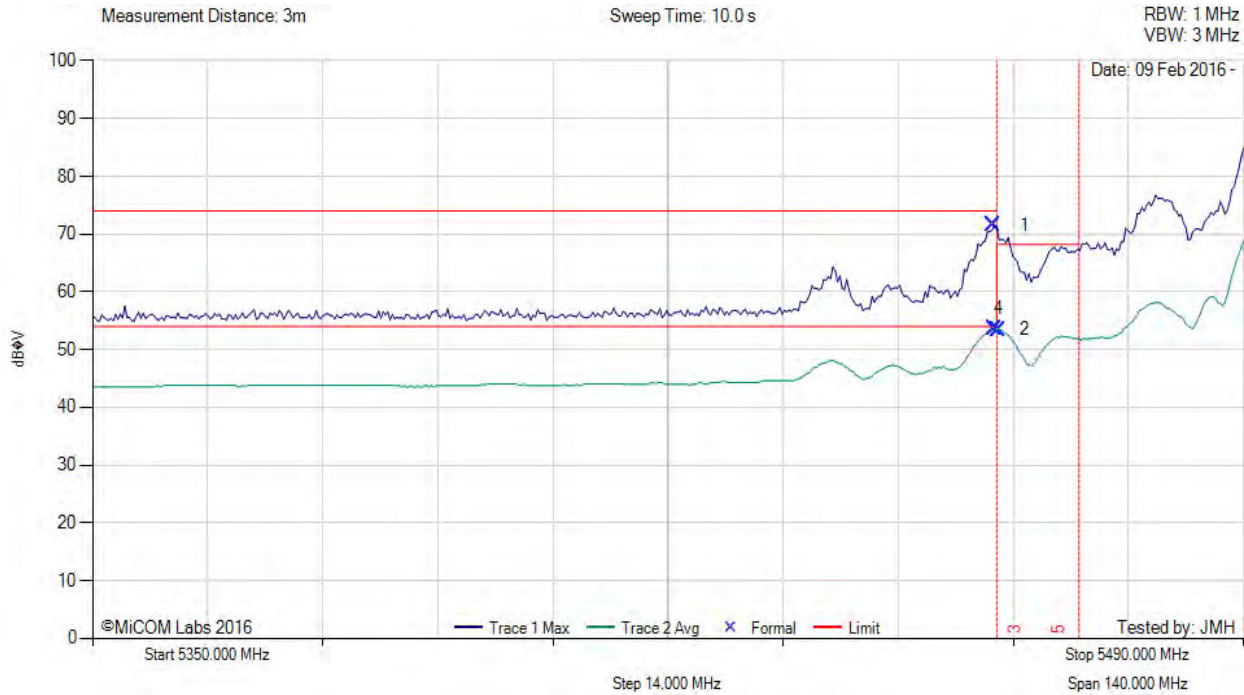


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 273 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5510.00 MHz, Antenna: AP-ANT-48, Power Setting: 15, Duty Cycle (%): 100



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	5459.60	33.37	3.79	34.31	71.47	Max Peak	Horizontal	154	347	74.0	-2.5	Pass
2	5459.74	15.49	3.79	34.31	53.59	Max Avg	Horizontal	154	347	54.0	-0.4	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5460.26	15.39	3.79	34.31	53.49	Max Avg	Horizontal	153	30	68.2*	-14.7	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

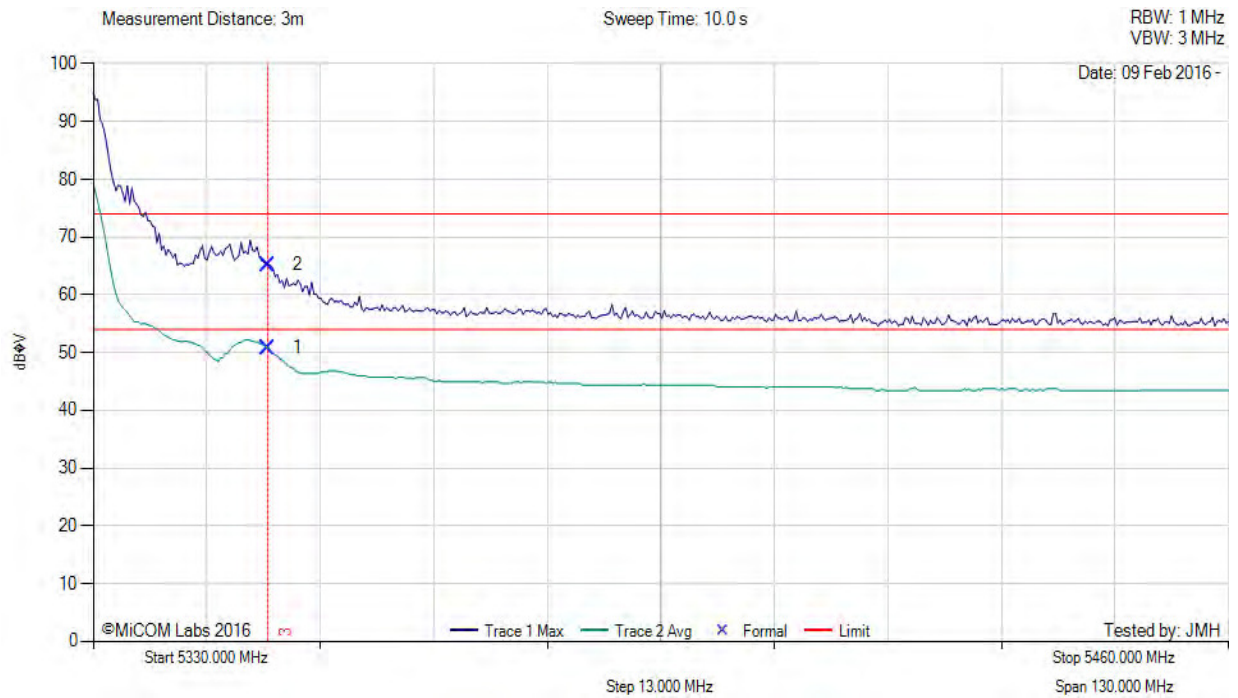


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 274 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: AP-ANT-48, Power Setting: 15.5, Duty Cycle (%): 100



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	12.64	3.70	34.51	50.85	Max Avg	Horizontal	152	346	54.0	-3.2	Pass
2	5350.00	26.99	3.70	34.51	65.20	Max Peak	Horizontal	152	346	74.0	-8.8	Pass
3	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

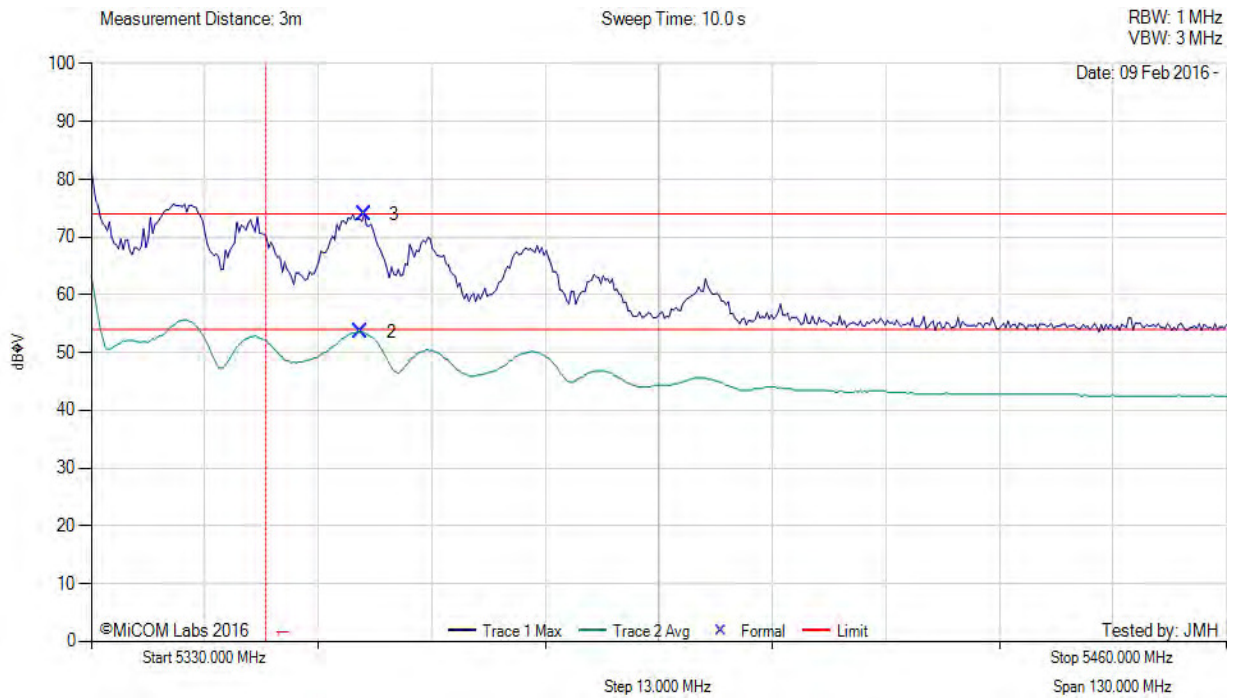


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 275 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-48, Power Setting: 11.5, Duty Cycle (%): 100



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	--	--	--	--	Band-Edge	--	--	--	--	--	--
2	5360.90	15.40	3.70	34.48	53.58	Max Avg	Horizontal	152	346	54.0	-0.4	Pass
3	5361.30	35.79	3.70	34.48	73.97	Max Peak	Horizontal	152	346	74.0	0.0	Pass

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

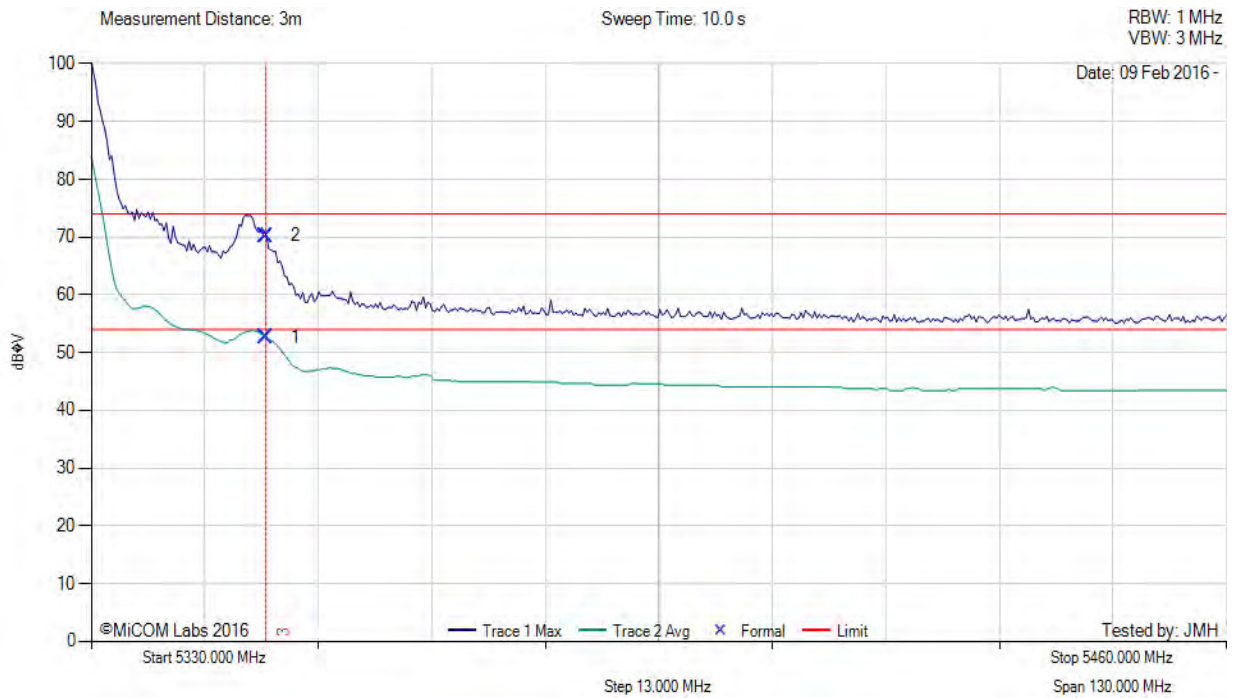


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 276 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5320.00 MHz, Antenna: AP-ANT-48, Power Setting: 16, Duty Cycle (%): 100



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	14.45	3.70	34.51	52.66	Max Avg	Horizontal	152	346	54.0	-1.3	Pass
2	5350.00	31.99	3.70	34.51	70.20	Max Peak	Horizontal	152	346	74.0	-3.8	Pass
3	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

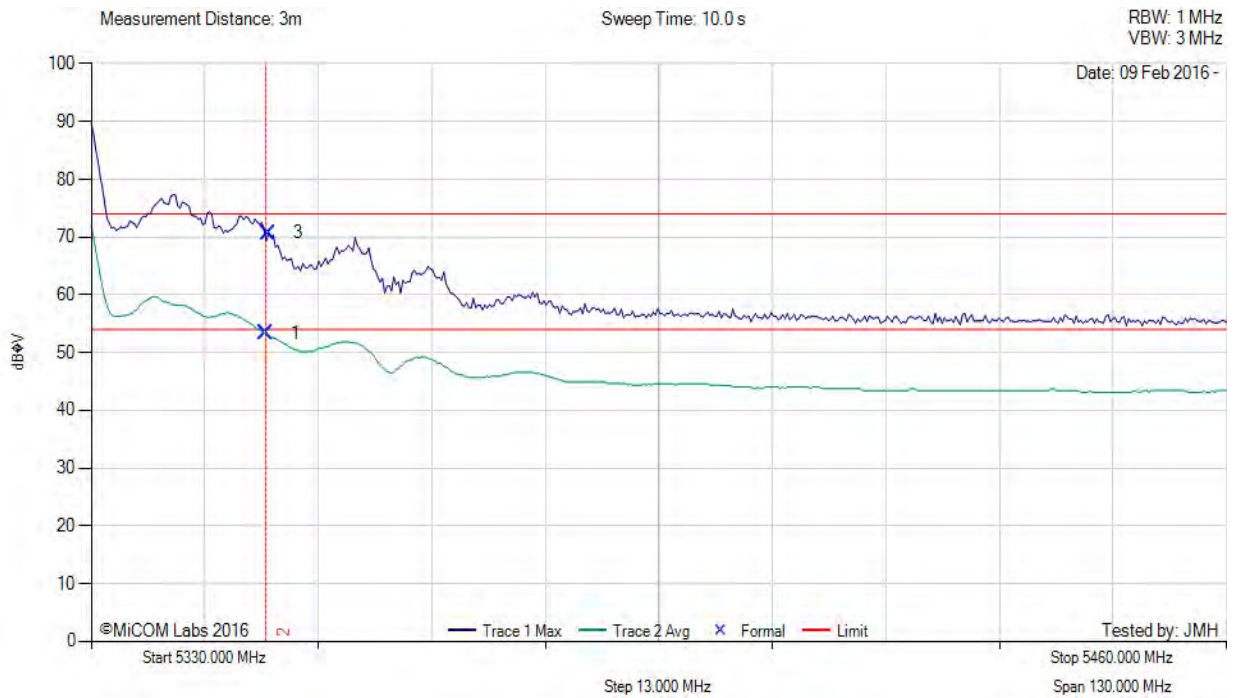


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 277 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5310.00 MHz, Antenna: AP-ANT-48, Power Setting: 15, Duty Cycle (%): 100



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	15.18	3.70	34.51	53.39	Max Avg	Horizontal	152	346	54.0	-0.6	Pass
3	5350.26	32.51	3.70	34.51	70.72	Max Peak	Horizontal	152	346	74.0	-3.3	Pass
2	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

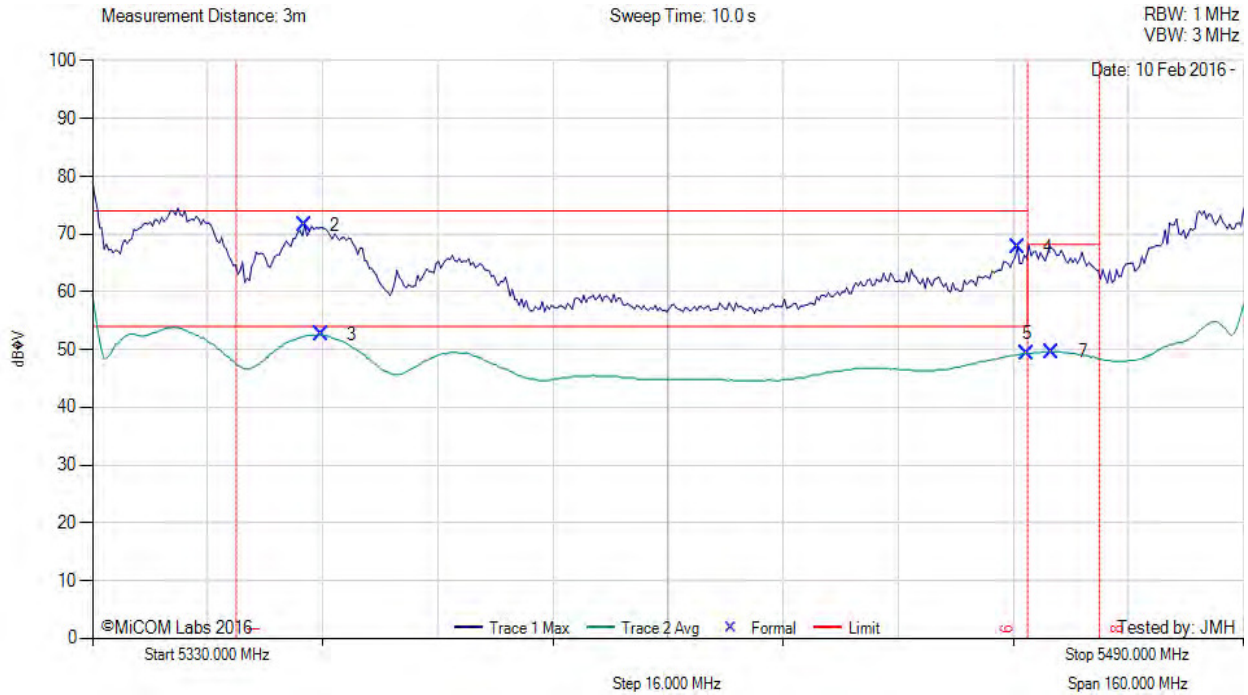


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 278 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: AP-ANT-48, Power Setting: 12, Duty Cycle (%): 100



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	--	--	--	--	Restricted Band	--	--	--	--	--	--
2	5359.50	33.37	3.71	34.49	71.57	Max Peak	Horizontal	147	346	74.0	-2.4	Pass
3	5361.76	14.48	3.70	34.48	52.66	Max Avg	Horizontal	147	346	54.0	-1.3	Pass
4	5458.58	29.60	3.79	34.31	67.70	Max Peak	Horizontal	154	347	74.0	-6.3	Pass
5	5459.86	11.21	3.79	34.31	49.31	Max Avg	Horizontal	154	347	54.0	-4.7	Pass
6	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
7	5463.39	11.74	3.79	34.31	49.63	Max Avg	Horizontal	153	30	68.2*	-18.6	Pass
8	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

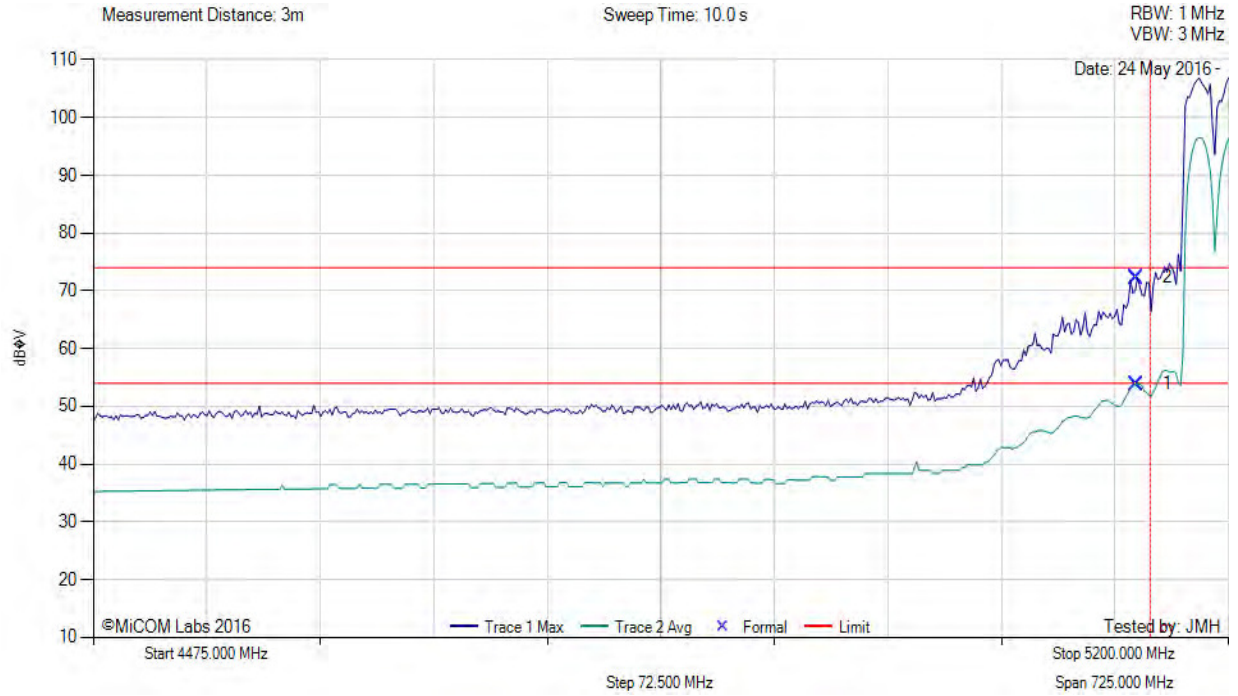


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 279 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variante: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-48, Power Setting: 12.5, Duty Cycle (%): 91



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	5141.58	16.08	3.70	34.12	53.90	Max Avg	Horizontal	182	-6	54.0	-0.1	Pass
2	5141.58	34.47	3.70	34.12	72.29	Max Peak	Horizontal	182	-6	74.0	-1.7	Pass
3	5150.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

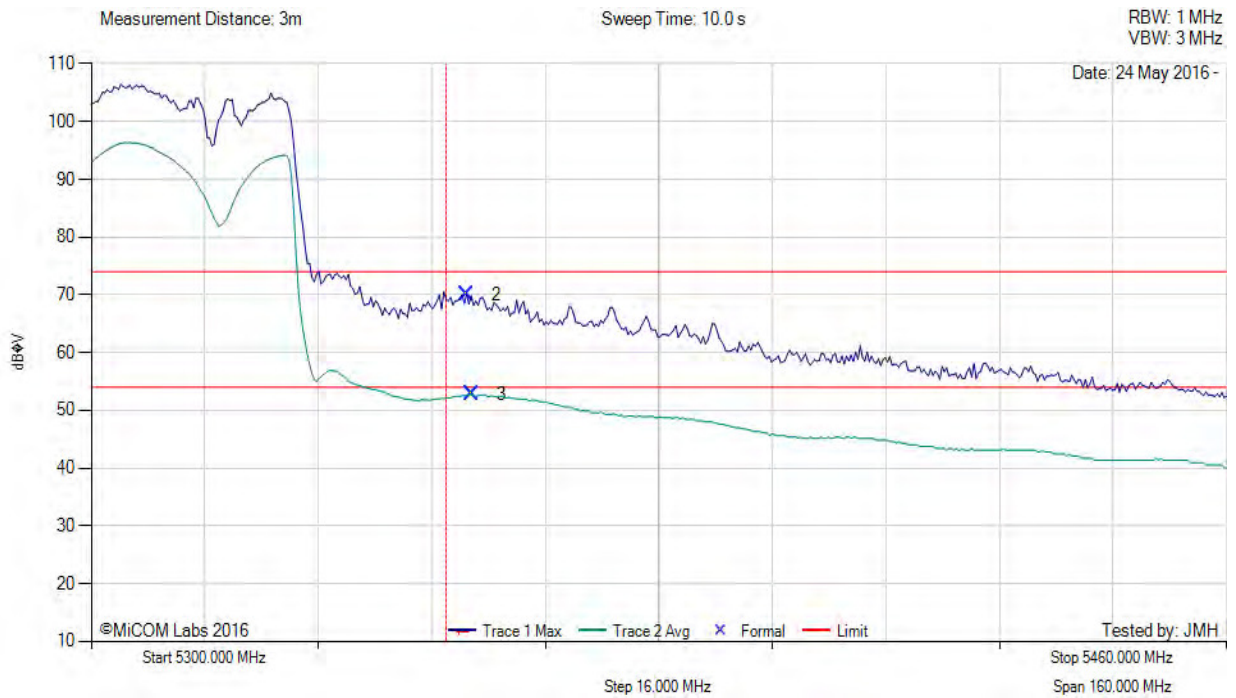


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 280 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: AP-ANT-48, Power Setting: 12.5, Duty Cycle (%): 91



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	--	--	--	--	Band Edge	--	--	--	--	--	--
2	5352.87	31.89	3.71	34.50	70.10	Max Peak	Horizontal	182	-6	74.0	-3.9	Pass
3	5353.65	14.55	3.71	34.50	52.76	Max Avg	Horizontal	182	-6	54.0	-1.2	Pass

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

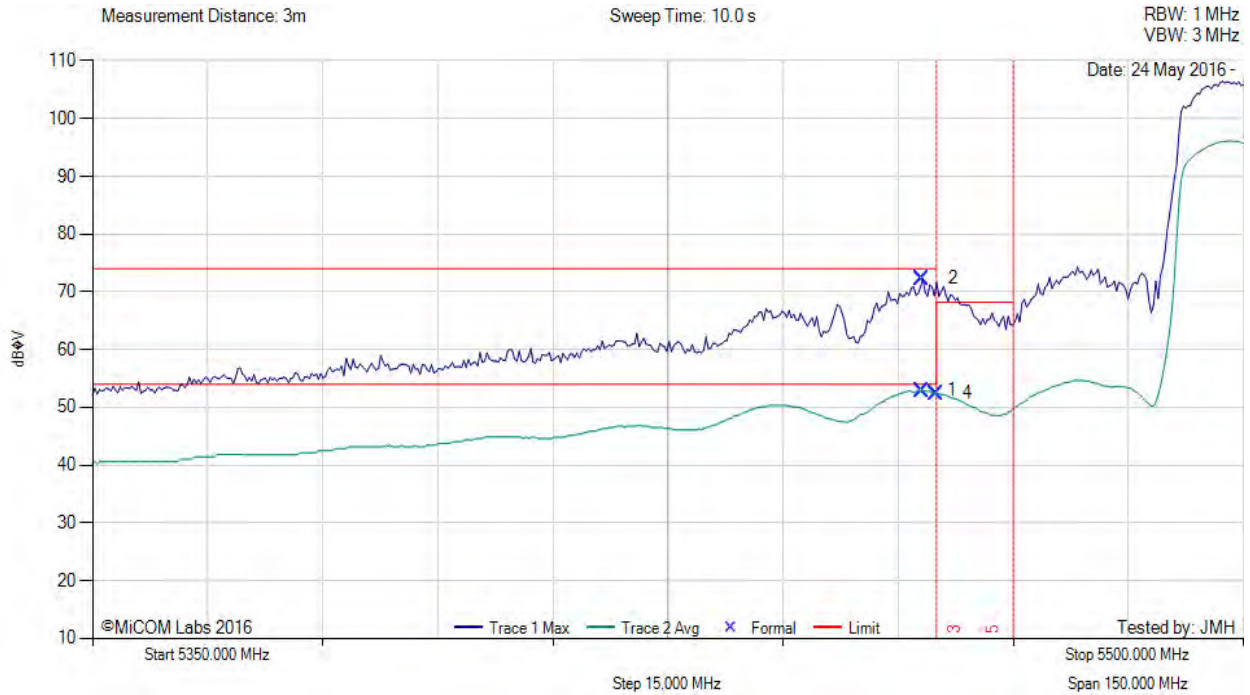


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 281 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5570.00 MHz, Antenna: AP-ANT-48, Power Setting: 13, Duty Cycle (%): 91



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	5458.10	14.79	3.80	34.30	52.89	Max Avg	Horizontal	153	-7	54.0	-1.1	Pass
2	5458.14	34.18	3.80	34.30	72.28	Max Peak	Horizontal	153	-7	74.0	-1.7	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5460.02	14.36	3.79	34.31	52.46	Max Avg	Horizontal	153	30	68.2*	-15.8	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

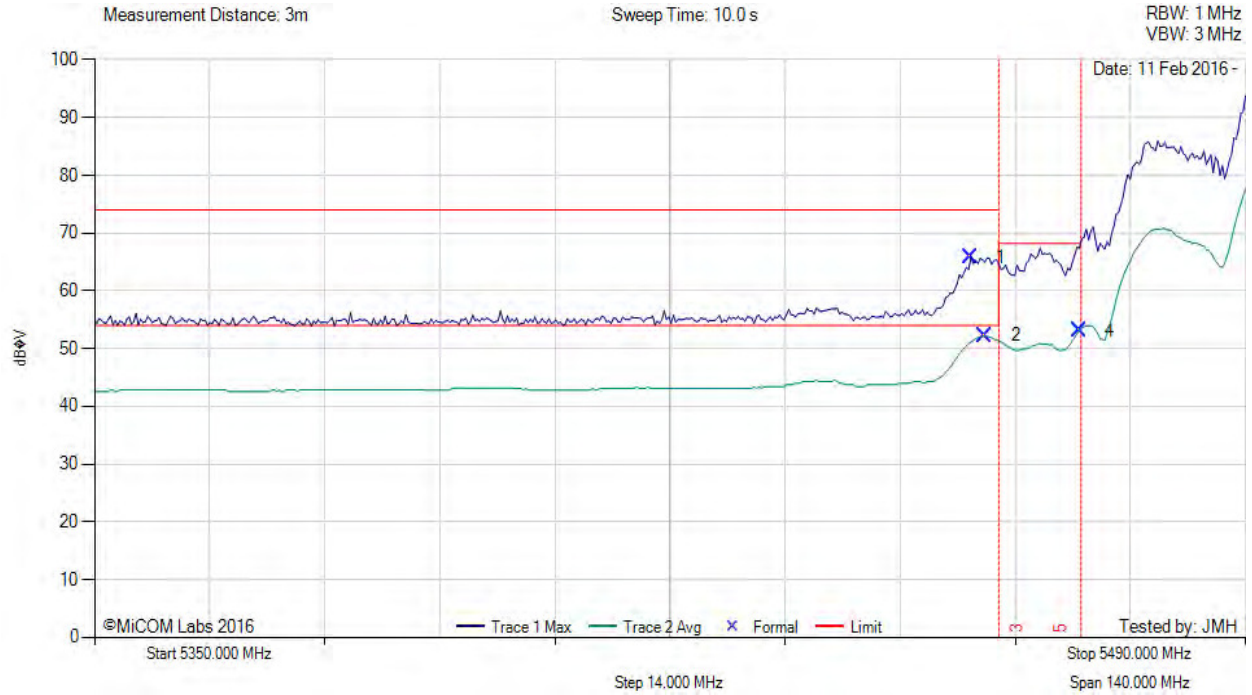


A.1.2.8. Metal Sheet



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5500.00 MHz, Antenna: Metal Sheet, Power Setting: 18, Duty Cycle (%): 100



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	5456.51	27.67	3.80	34.30	65.77	Max Peak	Vertical	179	45	74.0	-8.2	Pass
2	5458.34	14.13	3.80	34.30	52.23	Max Avg	Vertical	179	45	54.0	-1.8	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.80	14.99	3.79	34.32	53.10	Max Avg	Horizontal	153	30	68.2*	-15.1	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

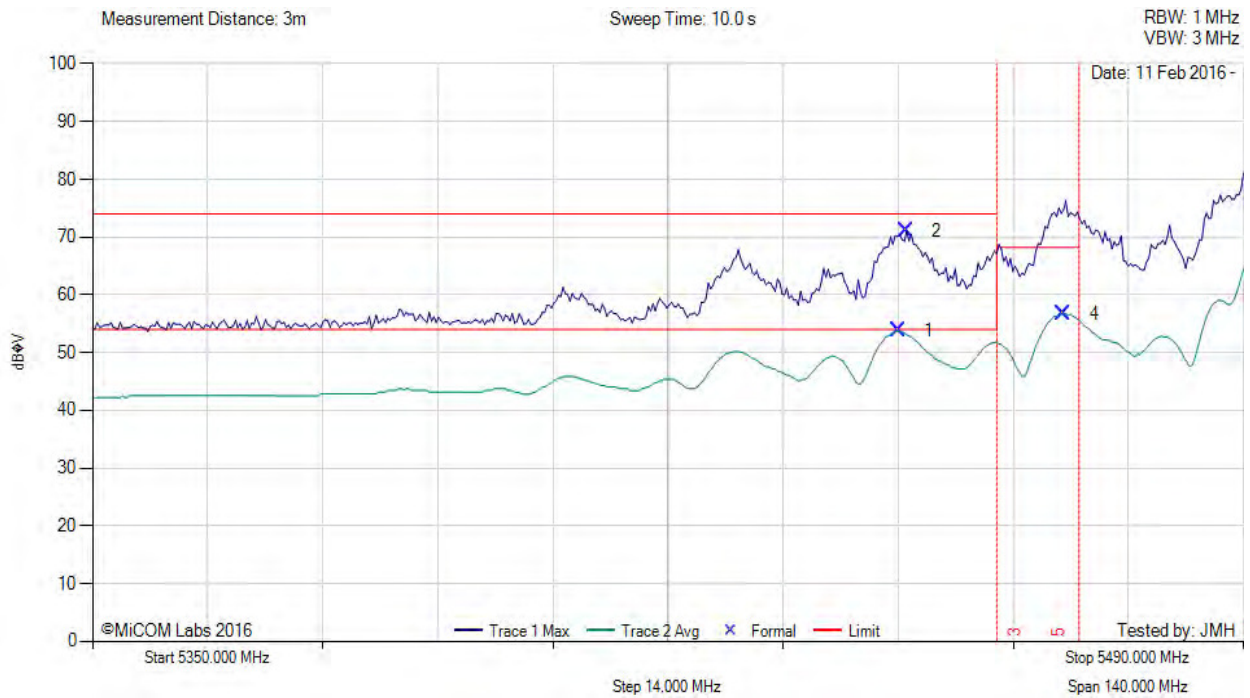


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 283 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5530.00 MHz, Antenna: Metal Sheet, Power Setting: 14, Duty Cycle (%): 100



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	5447.96	15.70	3.77	34.30	53.77	Max Avg	Vertical	179	45	54.0	-0.2	Pass
2	5448.94	32.96	3.77	34.30	71.03	Max Peak	Vertical	179	45	74.0	-3.0	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5468.12	18.61	3.79	34.32	56.72	Max Avg	Horizontal	153	30	68.2*	-11.5	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

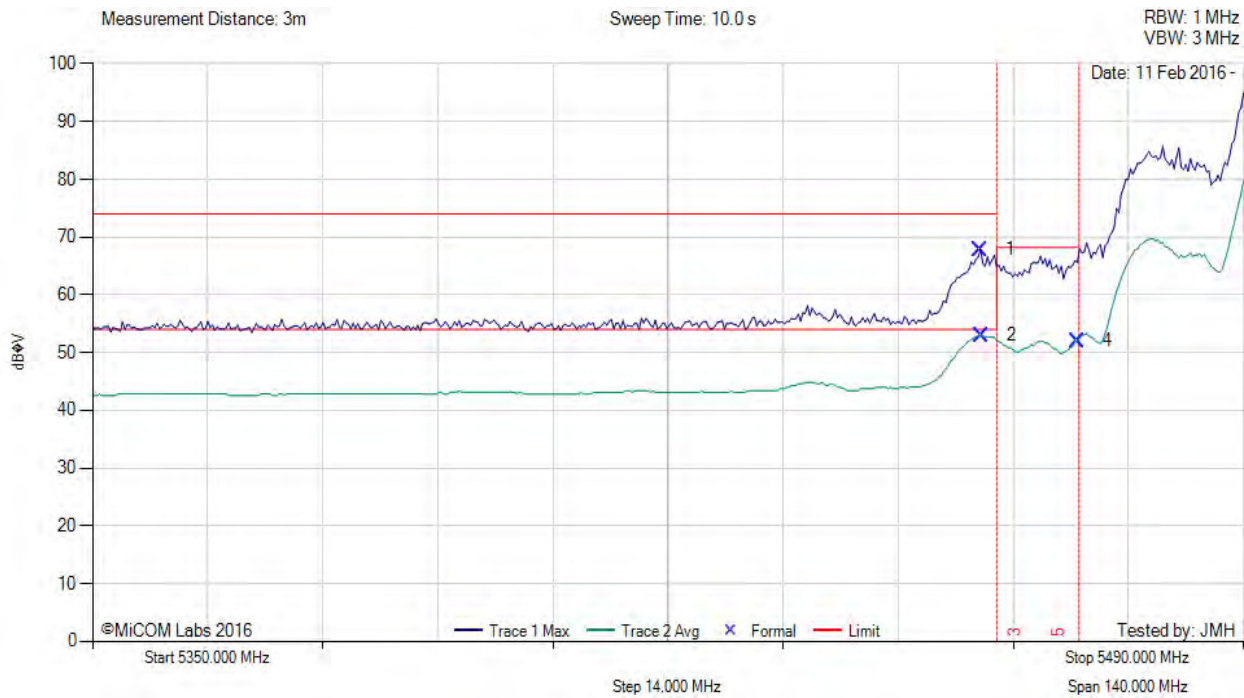


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 284 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5500.00 MHz, Antenna: Metal Sheet, Power Setting: 18, Duty Cycle (%): 100



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	5457.92	29.77	3.80	34.30	67.87	Max Peak	Vertical	179	45	74.0	-6.1	Pass
2	5458.06	14.89	3.80	34.30	52.99	Max Avg	Vertical	179	45	54.0	-1.0	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5469.79	13.90	3.79	34.32	52.01	Max Avg	Horizontal	153	30	68.2*	-16.2	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

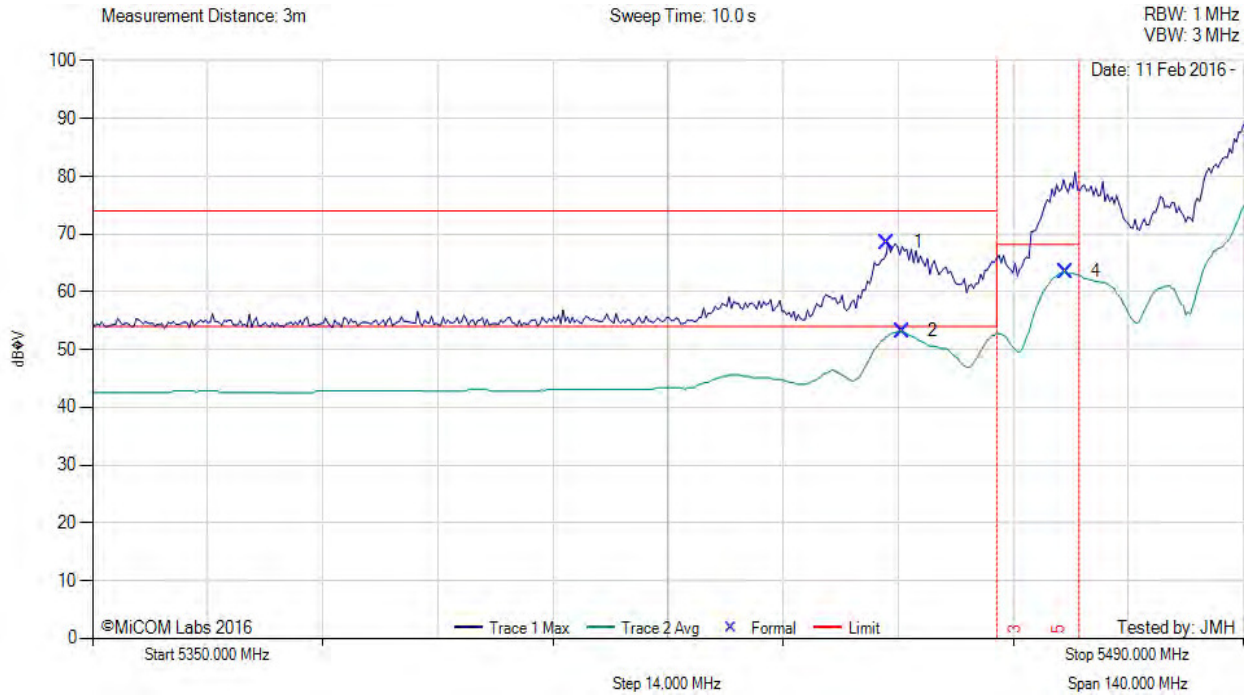


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 285 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5510.00 MHz, Antenna: Metal Sheet, Power Setting: 16.5, Duty Cycle (%): 100



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	5446.69	30.45	3.76	34.30	68.51	Max Peak	Vertical	179	45	74.0	-5.5	Pass
2	5448.52	15.12	3.77	34.30	53.19	Max Avg	Vertical	179	45	54.0	-0.8	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5468.40	25.44	3.79	34.32	63.55	Max Avg	Horizontal	153	30	68.2*	-4.7	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

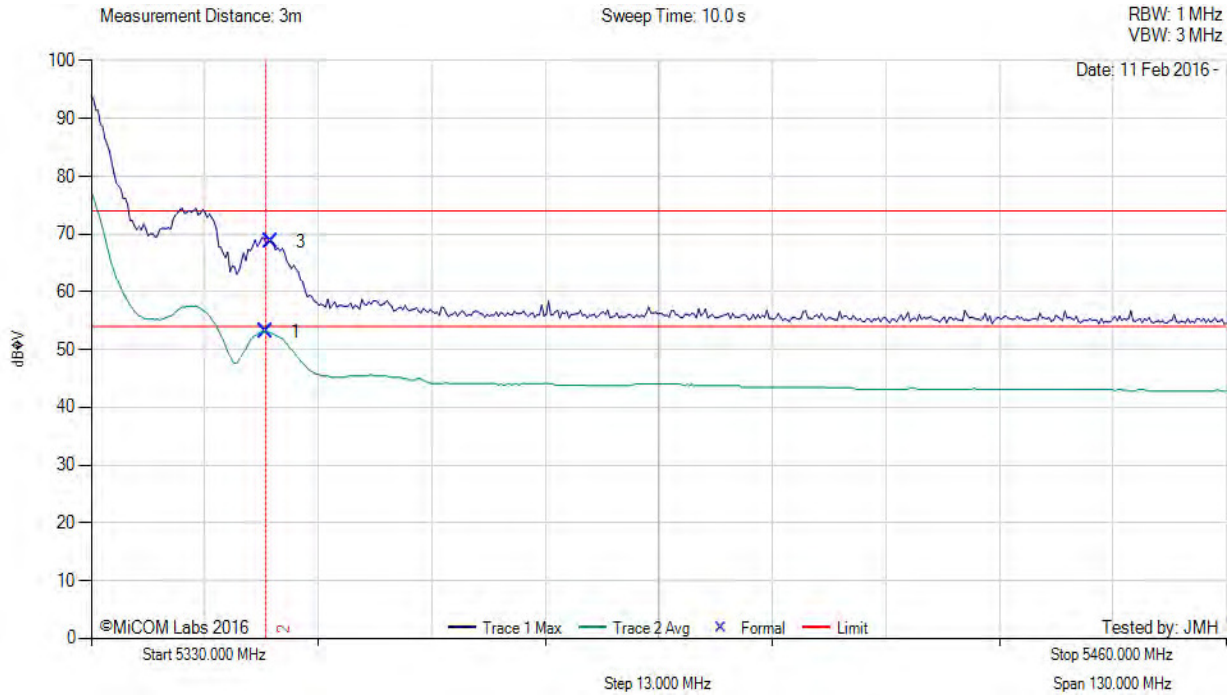


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 286 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5320.00 MHz, Antenna: Metal Sheet, Power Setting: 16.5, Duty Cycle (%): 100



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	14.87	3.70	34.51	53.08	Max Avg	Vertical	180	324	54.0	-0.9	Pass
2	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--
3	5350.52	30.46	3.71	34.51	68.68	Max Peak	Vertical	180	324	74.0	-5.3	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

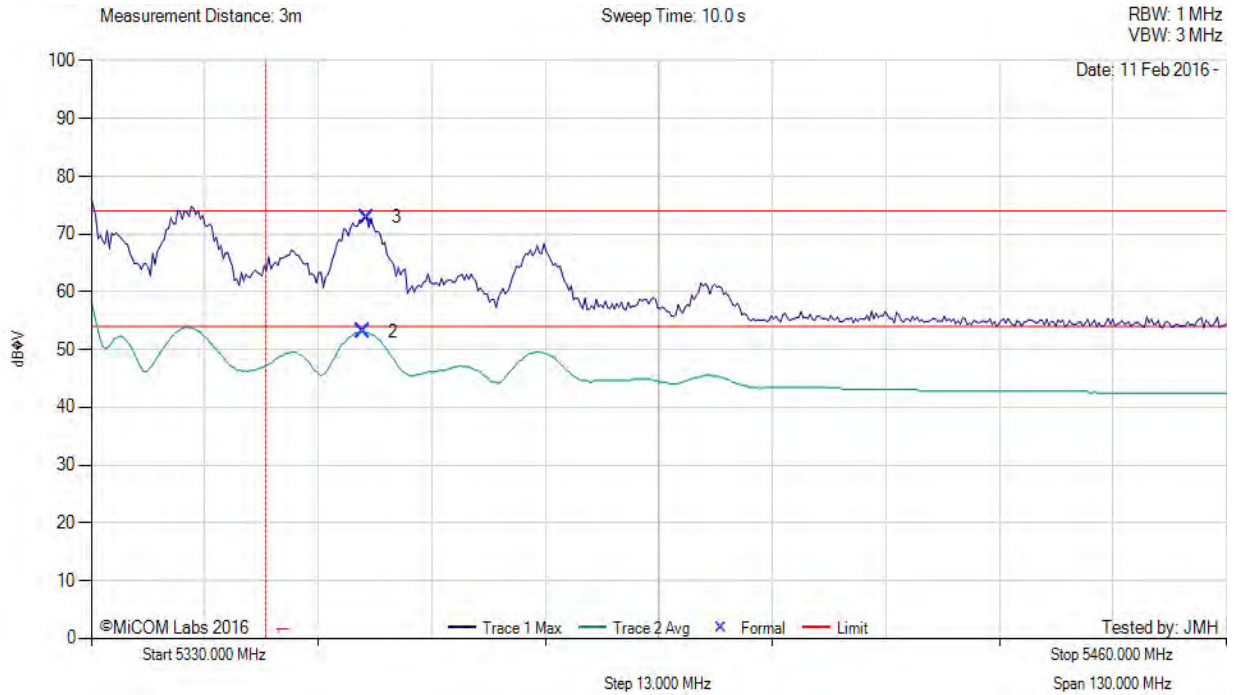


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 287 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: Metal Sheet, Power Setting: 11.5, Duty Cycle (%): 100



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	--	--	--	--	Band-Edge	--	--	--	--	--	--
2	5361.16	14.90	3.70	34.48	53.08	Max Avg	Vertical	180	324	54.0	-0.9	Pass
3	5361.56	34.70	3.70	34.48	72.88	Max Peak	Vertical	180	324	74.0	-1.1	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

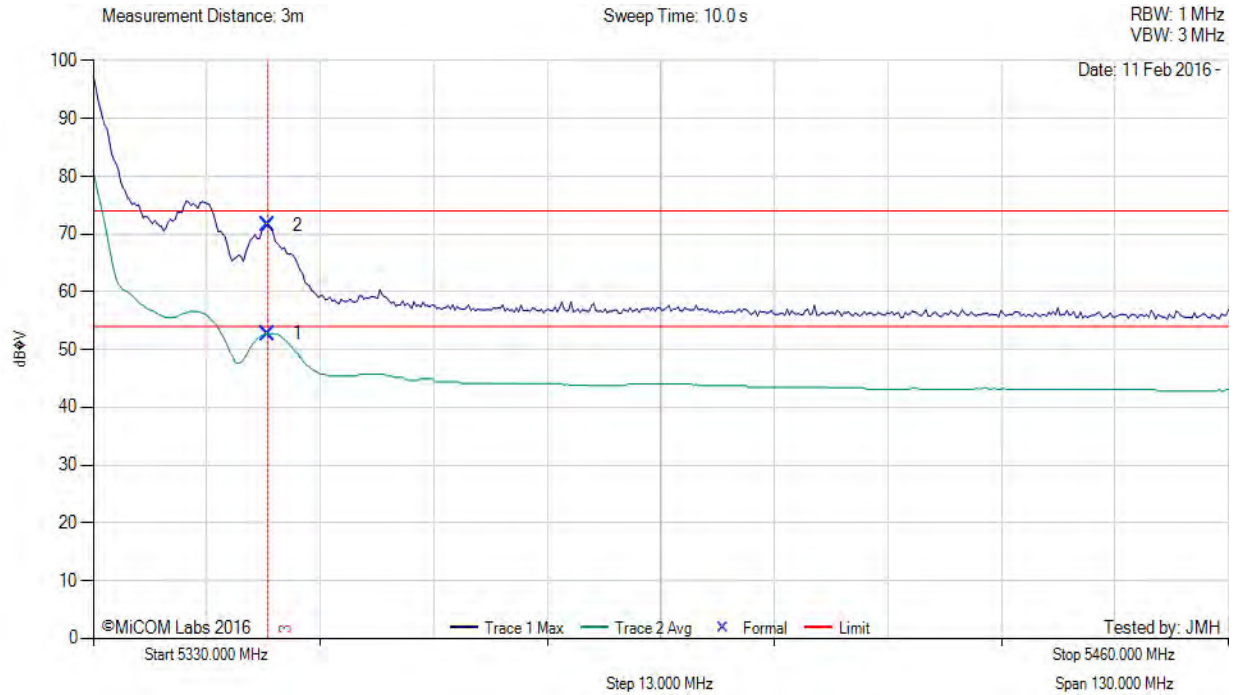


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 288 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5320.00 MHz, Antenna: Metal Sheet, Power Setting: 16.5, Duty Cycle (%): 100



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	14.55	3.70	34.51	52.76	Max Avg	Vertical	180	324	54.0	-1.2	Pass
2	5350.00	33.41	3.70	34.51	71.62	Max Peak	Vertical	180	324	74.0	-2.4	Pass
3	5350.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

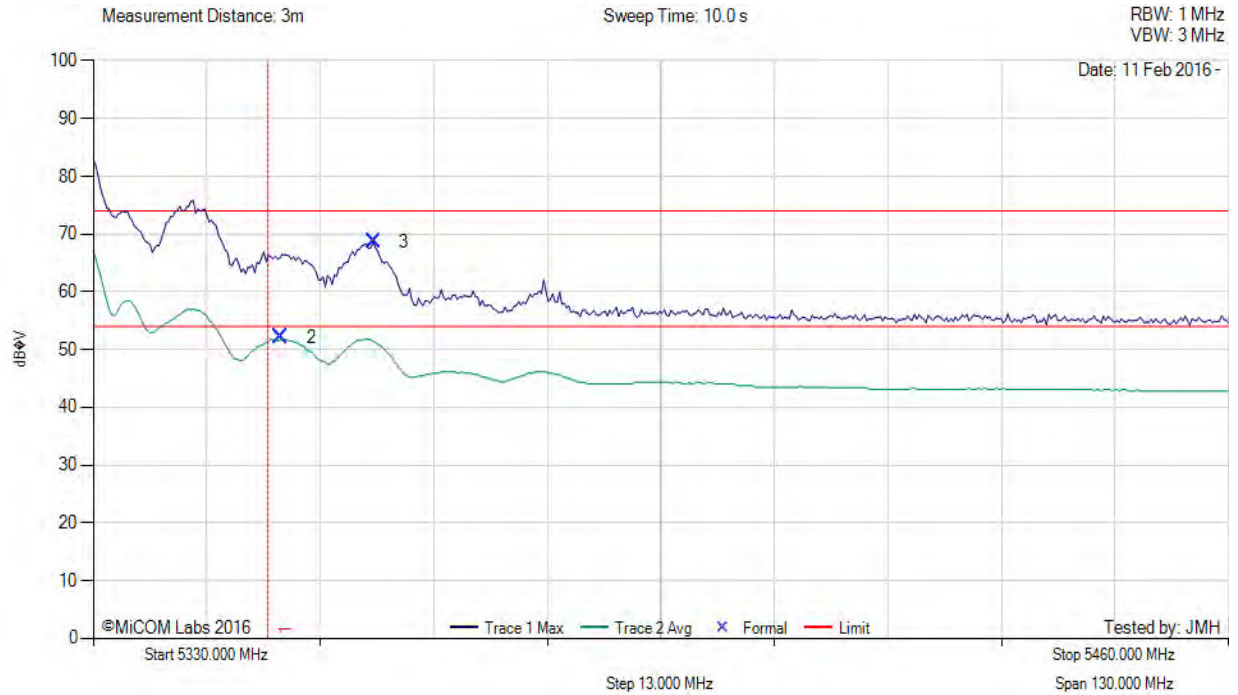


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 289 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5310.00 MHz, Antenna: Metal Sheet, Power Setting: 15.5, Duty Cycle (%): 100



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	--	--	--	--	Band-Edge	--	--	--	--	--	--
2	5351.52	13.88	3.71	34.51	52.10	Max Avg	Vertical	180	324	54.0	-1.9	Pass
3	5362.08	30.44	3.70	34.48	68.62	Max Peak	Vertical	180	324	74.0	-5.4	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

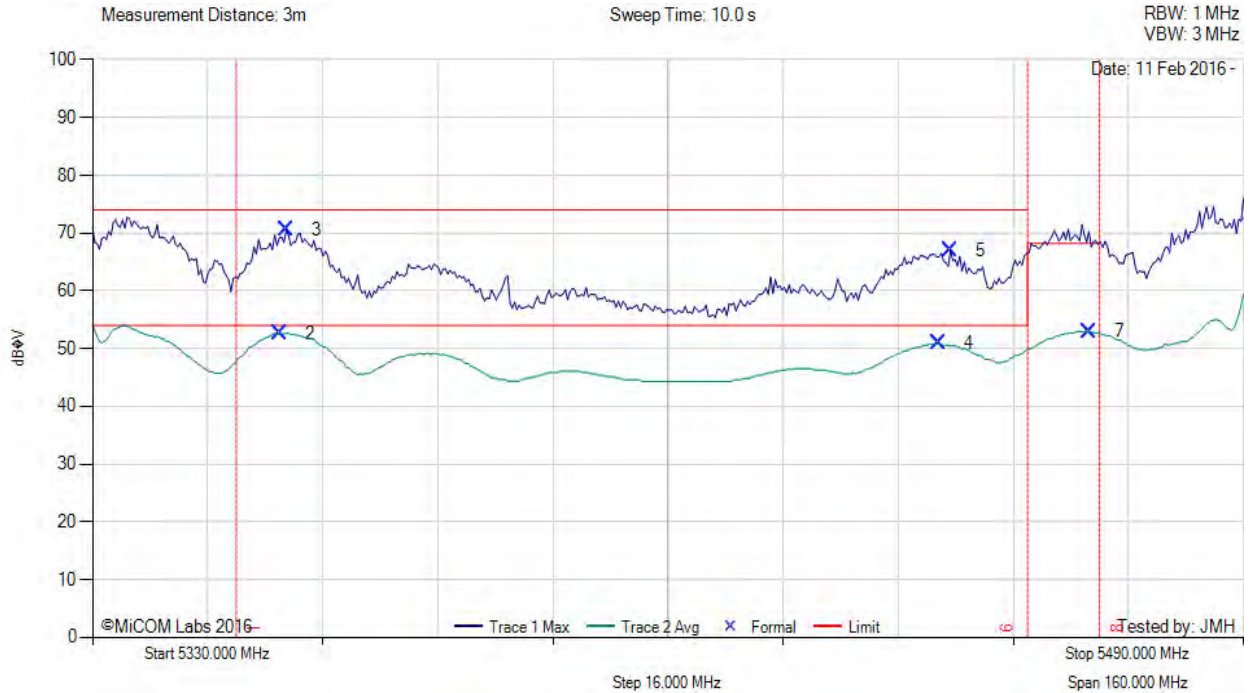


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 290 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5290.00 MHz, Antenna: Metal Sheet, Power Setting: 13, Duty Cycle (%): 100



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	--	--	--	--	Restricted Band	--	--	--	--	--	--
2	5355.99	14.45	3.71	34.50	52.66	Max Avg	Vertical	180	324	54.0	-1.3	Pass
3	5356.97	32.37	3.71	34.49	70.57	Max Peak	Vertical	180	324	74.0	-3.4	Pass
4	5447.68	13.82	3.77	34.30	50.89	Max Avg	Vertical	179	45	54.0	-3.1	Pass
5	5449.28	29.95	3.77	34.30	67.02	Max Peak	Vertical	179	45	74.0	-7.0	Pass
6	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
7	5468.52	27.72	3.79	34.32	53.00	Max Avg	Horizontal	153	30	68.2*	-15.2	Pass
8	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

*Note 68.2 dBµV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

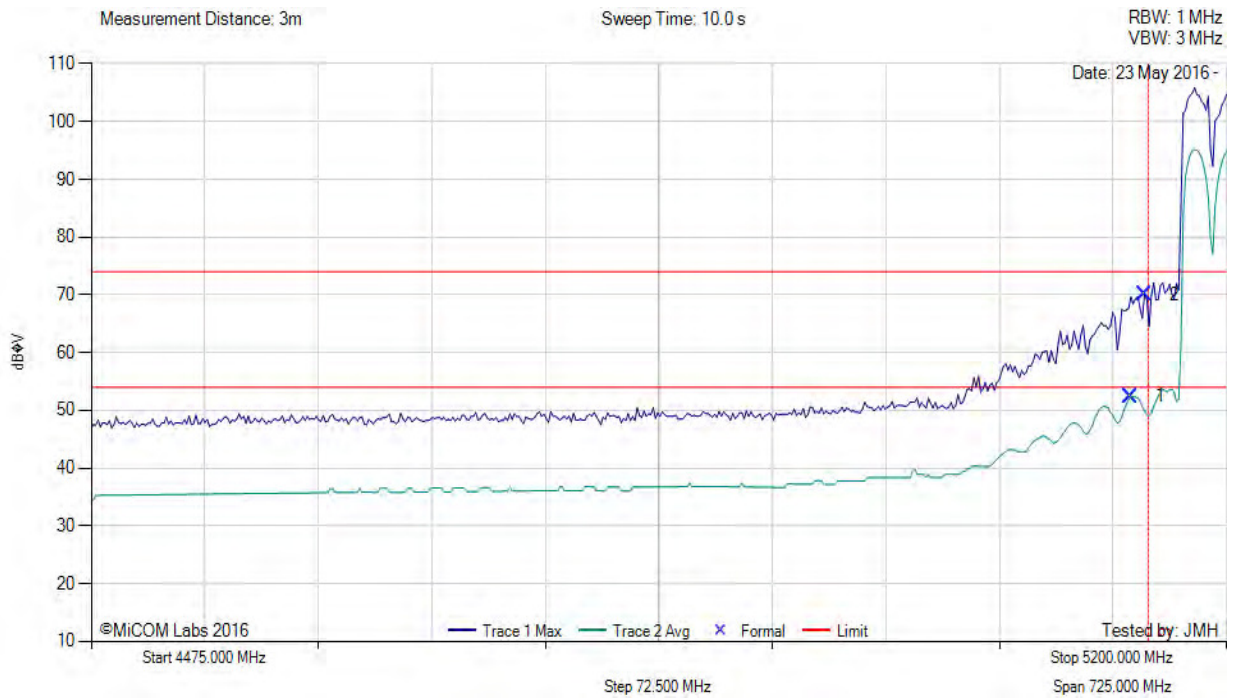


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 291 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: Metal Sheet, Power Setting: 13.5, Duty Cycle (%): 91



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	5138.68	14.60	3.70	34.12	52.42	Max Avg	Horizontal	152	63	54.0	-1.6	Pass
2	5147.39	32.26	3.68	34.11	70.05	Max Peak	Horizontal	152	63	74.0	-4.0	Pass
3	5150.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

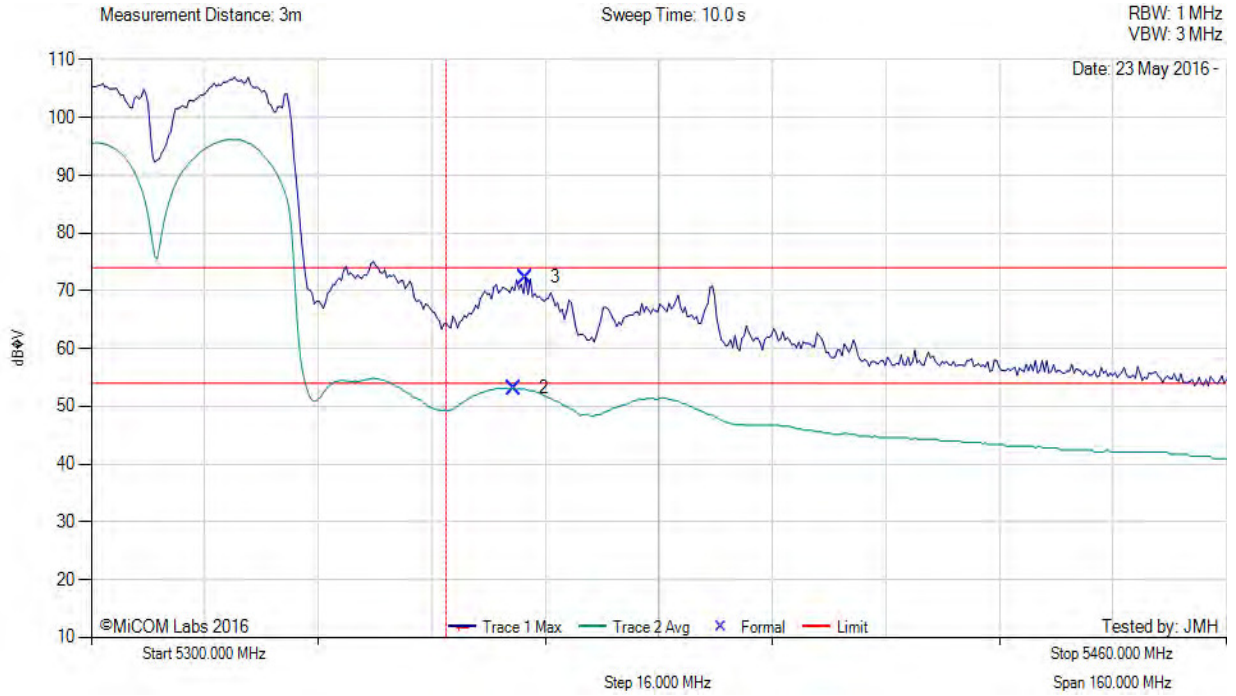


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 292 of 294



RESTRICTED UPPER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5250.00 MHz, Antenna: Metal Sheet, Power Setting: 13.5, Duty Cycle (%): 91



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	5359.52	14.99	3.70	34.49	53.18	Max Avg	Horizontal	152	63	54.0	-0.8	Pass
3	5361.12	34.13	3.70	34.48	72.31	Max Peak	Horizontal	152	63	74.0	-1.7	Pass
1	5350.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

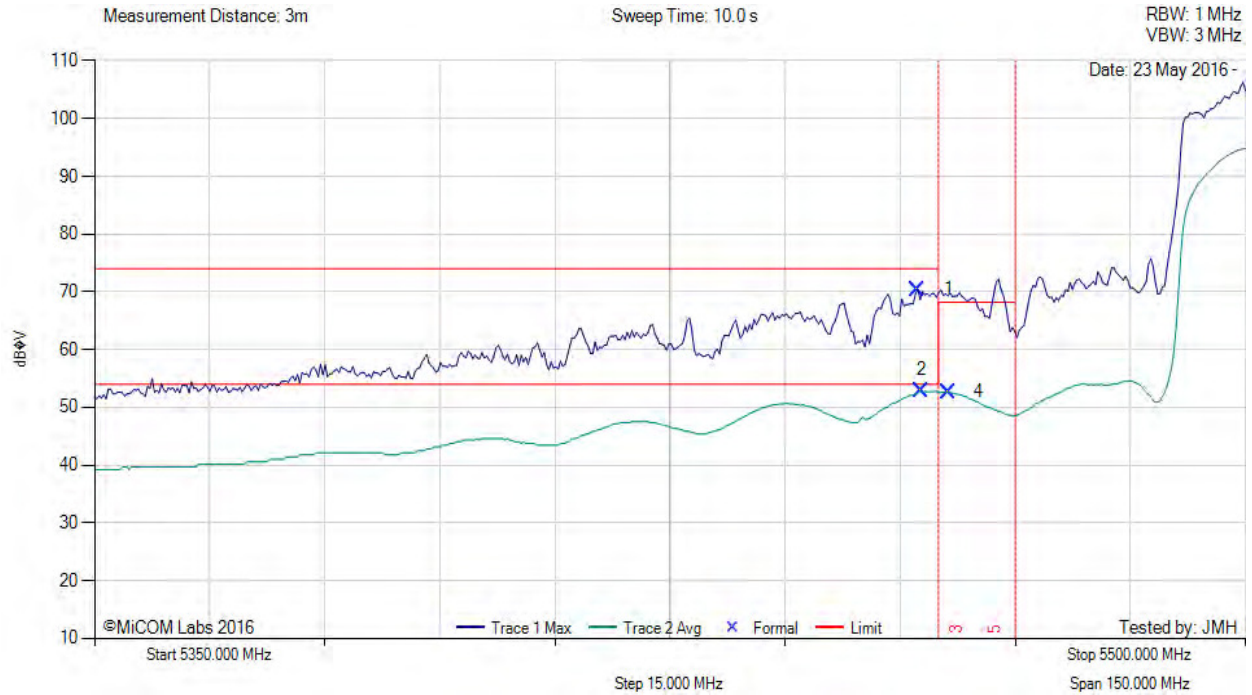


Title: Aruba Networks APIN0314, APIN0315
To: FCC Part 15.407, IC RSS-247(DFS Bands)
Serial #: ARUB204-U10_Radiated Rev A
Issue Date: 27th May 2016
Page: 293 of 294



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11ac-160, Test Freq: 5570.00 MHz, Antenna: Metal Sheet, Power Setting: 13.5, Duty Cycle (%): 91



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	5457.29	32.31	3.80	34.30	70.41	Max Peak	Horizontal	152	63	74.0	-3.6	Pass
2	5457.72	14.79	3.80	34.30	52.89	Max Avg	Horizontal	152	63	54.0	-1.1	Pass
3	5460.00	--	--	--	--	Restricted Band	--	--	--	--	--	--
4	5461.22	14.57	3.79	34.31	52.67	Max Avg	Horizontal	153	30	68.2*	-15.6	Pass
5	5470.00	--	--	--	--	Band Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by PDSine 9001GR POE. Power reduced to meet Band Edge Limits.

*Note 68.2 dBμV/m is band edge average limit for 5470 MHz per FCC 407

[back to matrix](#)

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.



575 Boulder Court
Pleasanton, California 94566, USA
Tel: +1 (925) 462 0304
Fax: +1 (925) 462 0306
www.micomlabs.com