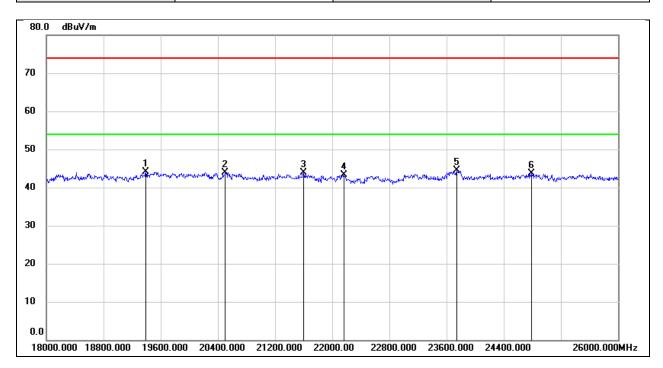


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8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

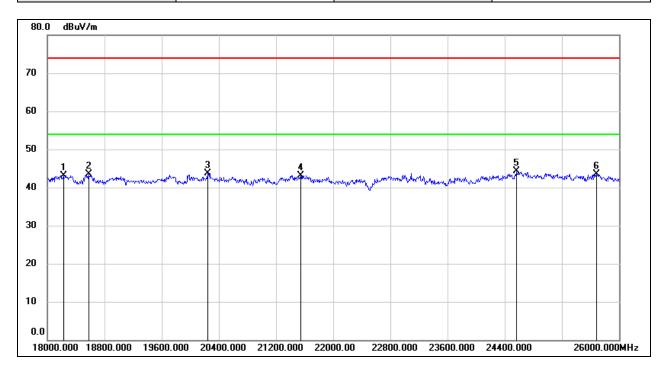
Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	AC 120, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19392.000	49.62	-5.57	44.05	74.00	-29.95	peak
2	20504.000	49.21	-5.35	43.86	74.00	-30.14	peak
3	21600.000	48.52	-4.54	43.98	74.00	-30.02	peak
4	22160.000	47.58	-4.31	43.27	74.00	-30.73	peak
5	23744.000	47.65	-3.20	44.45	74.00	-29.55	peak
6	24792.000	45.98	-2.28	43.70	74.00	-30.30	peak



Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	AC 120, 60 Hz



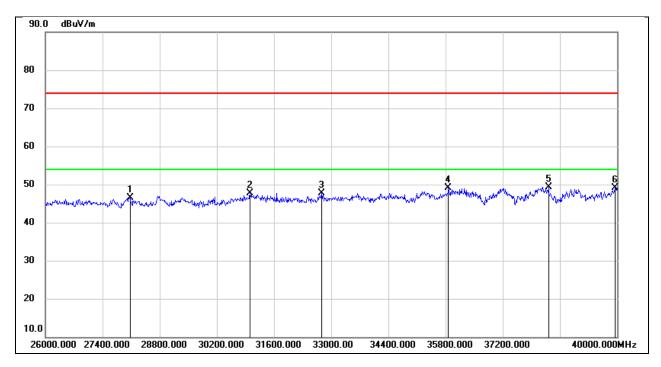
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18224.000	48.58	-5.53	43.05	74.00	-30.95	peak
2	18576.000	48.79	-5.30	43.49	74.00	-30.51	peak
3	20240.000	49.32	-5.61	43.71	74.00	-30.29	peak
4	21544.000	47.76	-4.63	43.13	74.00	-30.87	peak
5	24568.000	46.60	-2.33	44.27	74.00	-29.73	peak
6	25688.000	44.31	-0.90	43.41	74.00	-30.59	peak



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8.6. SPURIOUS EMISSIONS(26 GHZ~40 GHZ)

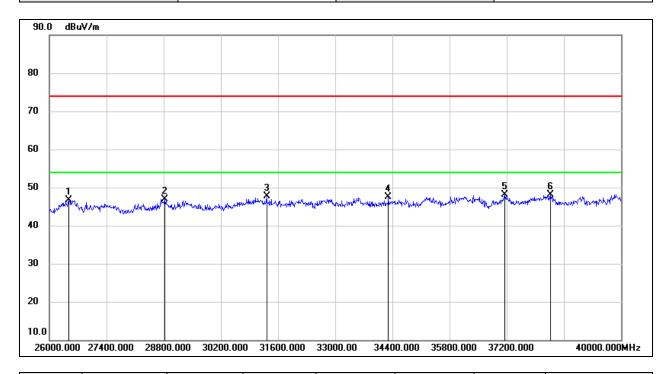
Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	AC 120, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	28072.000	50.01	-3.58	46.43	74.00	-27.57	peak
2	31012.000	48.33	-0.71	47.62	74.00	-26.38	peak
3	32762.000	48.95	-1.21	47.74	74.00	-26.26	peak
4	35870.000	45.33	3.75	49.08	74.00	-24.92	peak
5	38320.000	45.56	3.77	49.33	74.00	-24.67	peak
6	39958.000	44.08	5.12	49.20	74.00	-24.80	peak



Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	AC 120, 60 Hz

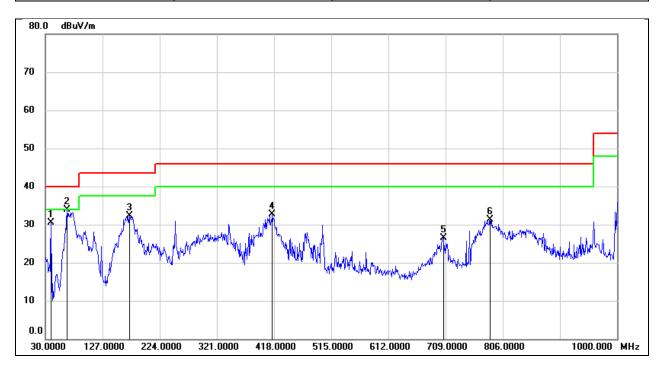


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26476.000	51.53	-4.78	46.75	74.00	-27.25	peak
2	28828.000	47.63	-0.79	46.84	74.00	-27.16	peak
3	31320.000	48.61	-0.93	47.68	74.00	-26.32	peak
4	34302.000	46.45	1.10	47.55	74.00	-26.45	peak
5	37158.000	44.84	3.17	48.01	74.00	-25.99	peak
6	38278.000	44.32	3.82	48.14	74.00	-25.86	peak



8.7. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

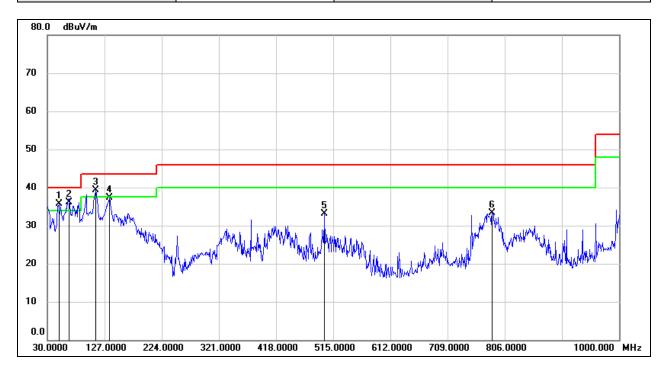
Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Horizontal	Test Voltage:	AC120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	39.7000	50.28	-19.84	30.44	40.00	-9.56	QP
2	66.8600	54.60	-20.63	33.97	40.00	-6.03	QP
3	172.5900	49.03	-16.81	32.22	43.50	-11.28	QP
4	415.0900	45.26	-12.59	32.67	46.00	-13.33	QP
5	705.1200	34.44	-7.85	26.59	46.00	-19.41	QP
6	784.6599	38.17	-6.78	31.39	46.00	-14.61	QP



Test Mode:	802.11a 20	Frequency(MHz):	5180
Polarity:	Vertical	Test Voltage:	AC120V_60Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	49.4000	56.20	-20.52	35.68	40.00	-4.32	QP
2	66.8600	56.64	-20.63	36.01	40.00	-3.99	QP
3	111.4800	59.63	-20.24	39.39	43.50	-4.11	QP
4	135.7300	56.27	-19.04	37.23	43.50	-6.27	QP
5	500.4500	43.78	-10.67	33.11	46.00	-12.89	QP
6	784.6599	40.08	-6.78	33.30	46.00	-12.70	QP

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9. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

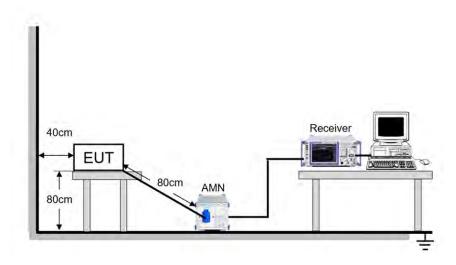
TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

Temperature	21.7℃	Relative Humidity	59.2%
Atmosphere Pressure	101kPa	Test Voltage	



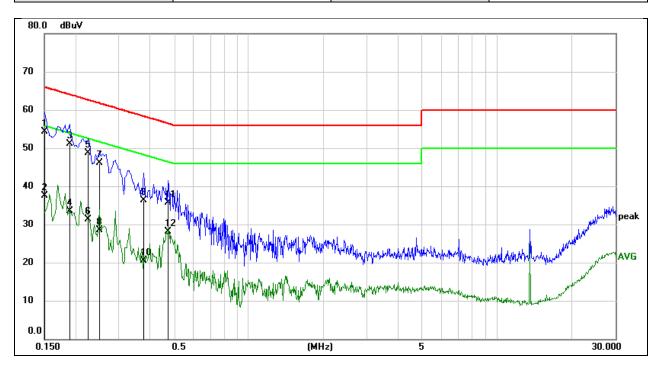
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TEST DATE / ENGINEER

Test Date	August 4, 2023	Test Bv	Karl Wu
1 Ook Dato	ragaet 1, 2020	1 001 Dy	I COLL VVO

TEST RESULTS





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1500	44.80	9.59	54.39	66.00	-11.61	QP
2	0.1500	27.88	9.59	37.47	56.00	-18.53	AVG
3	0.1904	41.52	9.59	51.11	64.02	-12.91	QP
4	0.1904	23.93	9.59	33.52	54.02	-20.50	AVG
5	0.2259	39.10	9.59	48.69	62.60	-13.91	QP
6	0.2259	21.66	9.59	31.25	52.60	-21.35	AVG
7	0.2493	36.47	9.59	46.06	61.78	-15.72	QP
8	0.2493	18.99	9.59	28.58	51.78	-23.20	AVG
9	0.3778	26.75	9.59	36.34	58.33	-21.99	QP
10	0.3778	10.93	9.59	20.52	48.33	-27.81	AVG
11	0.4726	26.03	9.60	35.63	56.47	-20.84	QP
12	0.4726	18.57	9.60	28.17	46.47	-18.30	AVG

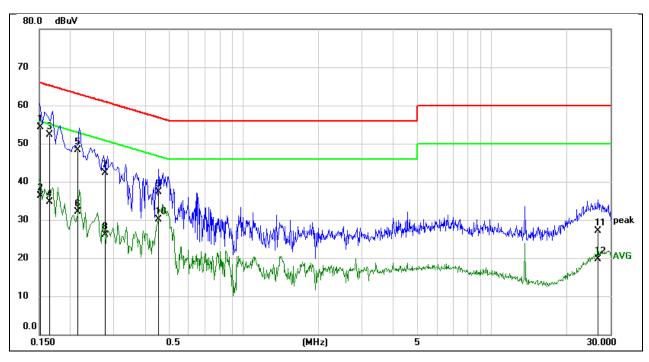
Note:

- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.



Test Mode: M01 Line: Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1522	44.72	9.49	54.21	65.88	-11.67	QP
2	0.1522	26.76	9.49	36.25	55.88	-19.63	AVG
3	0.1652	42.83	9.52	52.35	65.20	-12.85	QP
4	0.1652	25.25	9.52	34.77	55.20	-20.43	AVG
5	0.2132	38.65	9.59	48.24	63.08	-14.84	QP
6	0.2132	22.54	9.59	32.13	53.08	-20.95	AVG
7	0.2771	32.82	9.56	42.38	60.90	-18.52	QP
8	0.2771	16.51	9.56	26.07	50.90	-24.83	AVG
9	0.4543	27.86	9.52	37.38	56.80	-19.42	QP
10	0.4543	20.57	9.52	30.09	46.80	-16.71	AVG
11	26.7457	17.34	9.70	27.04	60.00	-32.96	QP
12	26.7457	9.95	9.70	19.65	50.00	-30.35	AVG

Note:

- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.



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10. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.407(a)

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass



11.TEST DATA

11.1. APPENDIX A1: EMISSION BANDWIDTH 11.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdic
	Ant0	5180	21.68	5168.68	5190.36		
		5180	22.76	5168.96	5191.72		
		5200	20.08	5190.12	5210.20		
		5200	21.32	5189.28	5210.60		
		5240	19.20	5230.64	5249.84		
		5240	19.36	5230.36	5249.72		
		5260	19.28	5250.56	5269.84		
		5260	19.48	5250.12	5269.60		
		5280	19.00	5270.64	5289.64		
		5280	19.52	5270.12	5289.64		
		5320	21.60	5309.12	5330.72		
		5320	21.800	5308.760	5330.560		
		5500	20.600	5489.600	5510.200		
		5500	21.560	5488.880	5510.440		
11A	Ant0	5580	19.680	5570.360	5590.040		
IIA	Ant1	5580	20.000	5569.880	5589.880		
	Ant0	5700	22.080	5689.640	5711.720		
	Ant1	5700	21.640	5689.240	5710.880		
	Ant0	5720	19.840	5709.840	5729.680		
	Ant1	5720	20.000	5709.880	5729.880		
	Ant0	5720_UNII-2C	15.16	5709.840	5725		
	Ant1	5720_UNII-2C	15.12	5709.880	5725		
	Ant0	5720_UNII-3	4.68	5725	5729.680		
	Ant1	5720_UNII-3	4.88	5725	5729.880		
	Ant0	5745	22.480	5735.120	5757.600		
	Ant1	5745	22.440	5734.840	5757.280		
	Ant0	5785	21.680	5774.480	5796.160		
	Ant1	5785	20.520	5774.840	5795.360		
		5825	22.440	5813.600	5836.040		
		5825	22.560	5813.440	5836.000		
		5180	22.360	5168.400	5190.760		
		5180	22.440	5168.920	5191.360		
		5200	22.760	5188.320	5211.080		
		5200	22.000	5189.080	5211.080		
		5240	19.520	5230.320	5249.840	t	
		5240	19.920	5230.040	5249.960		
		5260	20.960	5249.480	5270.440	†	
		5260	21.080	5249.800	5270.880		
		5280	20.360	5269.920	5290.280		
		5280	19.680	5270.280	5289.960	+	
		5320	22.680	5308.440	5331.120	t	
		5320	22.680	5309.440	5332.120	+	
		5500	22.200	5488.400	5510.600		
		5500	22.680	5489.040	5511.720		
		5580	20.760	5569.680	5590.440		
11N20MIMO		5580	20.700	5569.840		†	1
					5590.160		
		5700 5700	22.280 21.440	5688.680	5710.960 5710.530	t	
	Ant0 Ant1 Ant0 A	5700 5720	21.440	5689.080	5710.520 5731.000		
		5720 5720	21.600	5709.400 5709.720	5731.000	†	
		5720_UNII-2C 5720_UNII-2C	15.6	5709.400	5725 5725		
			15.28	5709.720	5725		
		5720_UNII-3	6	5725	5731.000	t	
		5720_UNII-3	5.36	5725	5730.360	t	
		5745	22.160	5734.640	5756.800	t	
		5745	22.160	5734.800	5756.960		
		5785	20.880	5774.560	5795.440	•	
		5785	20.800	5774.840	5795.640		
		5825	21.480	5814.280	5835.760		
	Ant1	5825	21.400	5814.240	5835.640		
11N40MIMO	Ant0	5190	41.680	5169.440	5211.120		
I IIN4UIVIIIVIU	Δnt1	5190	41.200	5169.600	5210.800		



Antl 5230 38.000 5210.000 5250.000 Antl 5230 38.000 5210.160 5249.760 Antl 5270 38.720 5250.640 5290.160 Antl 5270 38.720 5250.640 5290.160 Antl 5270 38.720 5250.650 5280.280 Antl 5270 38.720 5250.650 5280.280 Antl 5270 38.720 5250.650 5280.280 Antl 5310 48.800 5290.080 5338.80 Antl 5310 48.800 5290.080 5338.80 Antl 5310 48.800 5498.200 5532.800 Antl 5510 43.600 5488.200 5532.800 Antl 5510 40.000 5488.200 5532.800 Antl 5550 40.080 5530.160 5670.240 Antl 5550 39.520 5530.400 5669.20 Antl 5670 40.160 5650.400 5690.560 Antl 5670 40.160 5650.400 5690.560 Antl 5670 40.160 5650.400 5690.560 Antl 5710 39.920 5699.080 5730.000 Antl 5710 39.920 5699.080 5730.000 Antl 5710 UNII-2C 34.44 5690.660 5722.80 Antl 5710 UNII-3 3 5 5725 5729.280 Antl 5710 UNII-3 5 5.725 5729.280 Antl 5710 UNII-3 4.28 5725 5729.280 Antl 5710 UNII-3 4.28 5725 5729.280 Antl 5750 40.000 5735.600 5781.480 Antl 5755 40.000 5735.600 5781.480 Antl 5755 40.000 5735.600 5781.480 Antl 5750 5795 39.360 5775.160 5814.520 Antl 5795 39.800 5775.160 5814.520 Antl 5795 39.800 5775.160 5814.520 Antl 5795 39.800 5775.160 5814.520 Antl 5790 99.2480 5238.320 5338.800 Antl 5290 99.480 5238.320 5338.800 Antl 5290 99.480 5238.320 5338.800 Antl 5690 UNII-3 4.84 5725 572.880 Antl 5690 UNII-3 580 660 5164.880 5263.440 Antl 5690 UNII-3 4.84 5725 572.880 5338.800 Antl 5690 UNII-3 580 660 5168.72 5250 Antl 5690 UNII-3 580 660 590.320 5725.880 Antl 5690 UNII-3 580 660 590.320 5725.880 Antl 5690 UNII-3 580 660 590.320 5725.880 Antl 5690 UNII-3 580 660 560.320 5725.880 Antl 5690 UNII-3 580 660.320 5725.880 Antl 5600 5200 5200 5300 5500.331.280 Antl 5600 UNII-3 580 5800 5800 57	, 	
Ant1 5270 33.680 5250.480 5290.160 Ant1 5270 33.720 5250.560 5250.80 Ant0 5310 43.520 5287.920 5331.440 Ant1 5310 43.600 5290.80 533.88 Ant1 5310 43.600 5290.80 533.88 Bn Ant1 5310 43.600 5290.80 533.88 Bn Ant1 5510 43.600 5489.200 5532.800 Ant1 5510 43.600 5489.200 5532.800 Ant1 5550 40.080 5530.160 5570.240 Ant1 5550 30.520 5530.40 5569.20 Ant0 5570 40.080 5530.160 5570.240 Ant1 5570 40.160 5550.40 5699.20 Ant0 5710 39.920 5580.600 5730.000 Ant1 5710 39.920 5680.600 5730.000 Ant1 5710 39.920 5680.600 5722.80 Ant1 5710 UNII-32 34.44 5680.560 5722.80 Ant1 5710 UNII-3 5 5 5725 5730.000 Ant1 5750 40.000 5735.800 5722.80 Ant1 5710 UNII-3 4 28 5725 5728.000 Ant1 5750 40.000 5735.800 5773.000 Ant1 5750 540.000 5735.800 5773.800 Ant1 5750 540.000 5735.800 5775.800 Ant1 5750 540.000 5775.800 5814.520 Ant1 5775 775.800 580.000 580.000 580.000 Ant1 5690 UNII-2 74.88 5650.320 5728.800 Ant1 5775 788.80 5725 5728.800 Ant1 5690 UNII-2 74.88 5650.320 5728.800 Ant1 5690 UNII-2 74.88 5650.320 5728.800 Ant1 5250 UNII-1 81.82 5188.00 5667.36 Ant1 5260 UNII-2 81.82 5188.00 5667.36 Ant1 5		
Ant1 5270 38.720 529.580 529.280 Ant1 5310 43.520 529.287 920 5331.440 Ant1 5310 43.520 5287 920 5331.440 Ant1 5310 43.520 5290.880 5330.880 Ant1 5310 43.800 5290.880 5330.880 Ant1 5510 43.800 5496.200 5532.800 Ant1 5510 40.000 5496.480 5530.480 5530.480 Ant1 5550 40.080 5350.160 5570.240 Ant1 5550 40.080 5350.160 5570.240 Ant1 5550 38.520 5350.400 5569.220 Ant1 5550 40.080 5350.400 5569.220 Ant1 5570 40.180 5657.20 5696.720 Ant1 5670 40.180 5657.20 5696.720 Ant1 5670 40.180 5657.20 5696.720 Ant1 5710 38.720 5690.680 730.000 Ant1 5710 JNII-2C 34.92 5690.080 5730.000 5725 Ant1 5710 JNII-2C 34.92 5690.080 5725 Ant1 5710 JNII-2C 34.92 5690.080 7725 Ant1 5710 JNII-3 5 5725 5730.000 Ant1 5710 JNII-3 5 5725 5730.000 Ant1 5710 JNII-3 4.28 5725 5730.000 Ant1 5710 JNII-3 4.28 5725 5730.000 Ant1 5750 JNII-3 4.28 5725 5730.000 Ant1 5750 JNII-3 4.28 5725 5730.000 Ant1 5755 40.000 5735.080 5781.480 Ant1 5795 38.800 5775.160 5614.520 Ant1 5795 38.800 5775.160 5614.520 Ant1 5795 38.800 5775.800 5614.600 5626.440 5735.080 5781.480 Ant1 5795 38.800 5775.800 5614.600 Ant1 5290 97.920 5234.480 5332.400 Ant1 5290 97.920 5234.480 5332.400 Ant1 5290 97.920 5570.480 5589.840 Ant1 5290 97.920 5570.480 5589.840 Ant1 5290 97.920 5570.480 5589.840 Ant1 5580 JNII-2C 74.88 5650.320 5725 860 Ant1 5590 JNII-2C 74.88 5650.320 5725 860 Ant1 5590 JNII-2 34.880 5725 5729.880 Ant1 5590 JNII-2 34.880 5725 5729.880 Ant1 5590 JNII-2 34.88 5725 5729.880 Ant1 5590 JNII-3 4.88 5725 5729.880 Ant1 5250 JNII-3 4.88 5725 5729.880 S		
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	Ant1	5710_UNII-3	4.6	_	5729.600	5725 5729.680 5729.600 5781.560 5814.600 5814.920	
	Ant0	5755	46.400	5735.160	5781.560		
	Ant1	5755	45.920	5735.480	5781.400		-
	Ant0	5795	39.040	5775.560	5814.600	5.720 5.320 6.640 5.520 9.680 1.520 9.760 9.920 9.680 0.400 1.440 2.960 3.760 9.600 3.760 9.680 9.680 9.680 9.680 9.680 9.680 9.680 9.500 1.560 1.560 1.500 5.120 5.120 5.120 5.120 5.120 0.160 0.000 0.000 0.000 <td></td>	
	Ant1	5795	39.680	5775.240	5814.920		
	Ant0	5210	88.160	5166.960	5255.120		
	Ant1	5210	89.920	5165.200	5255.120		
	Ant0	5290	83.680	5246.480	5330.160		
	Ant1	5290	79.840	5250.160	5330.000		
	Ant0	5530	82.240	5487.920	5570.160		
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	Ant0	5610	79.840	5570.160			
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	Ant1	5570	163.20	5488.40	5651.60		



11.1.2. Test Graphs

