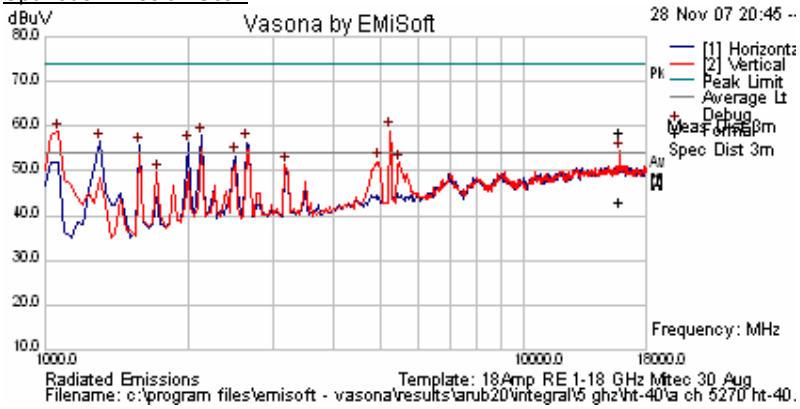
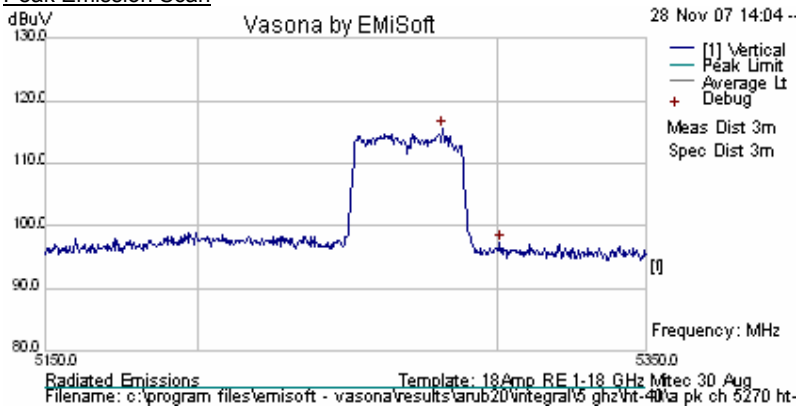
ARUB20 AP125 - INTEGRAL Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5270	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

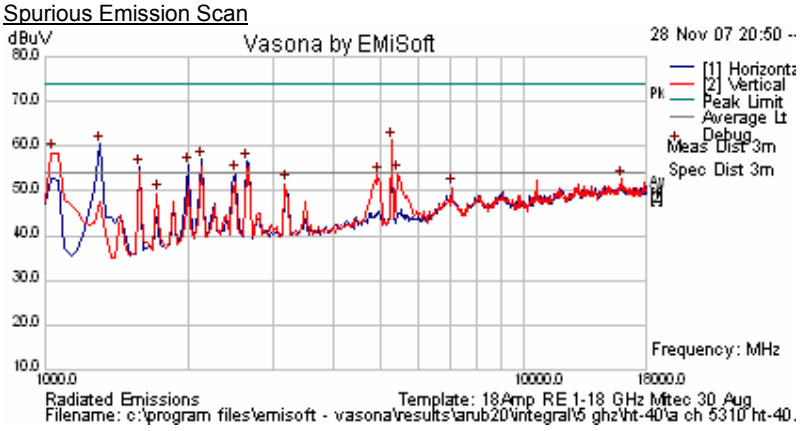


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5281.463	70.12	10.62	34.73	115.47	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
15815.64	48.98	8.72	-1.03	56.67	Peak Max	V	122	286	74	-17.33	Pass	
15815.64	33.47	8.72	-1.03	41.16	Average Max	V	122	286	54	-12.84	Pass	

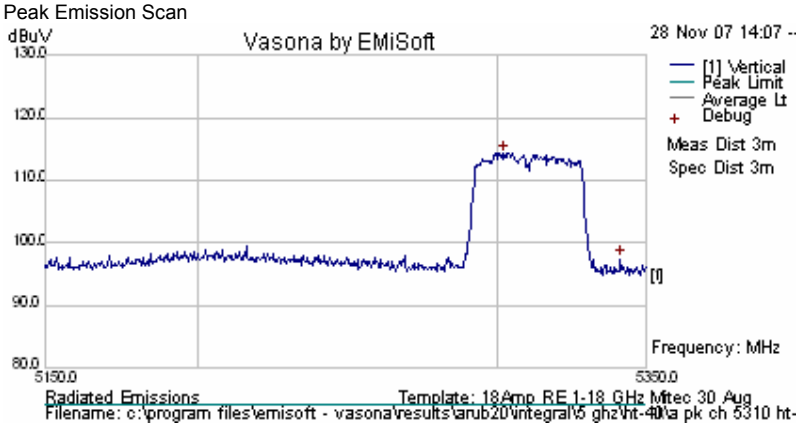
ARUB20 AP125 - INTEGRAL Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5310	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

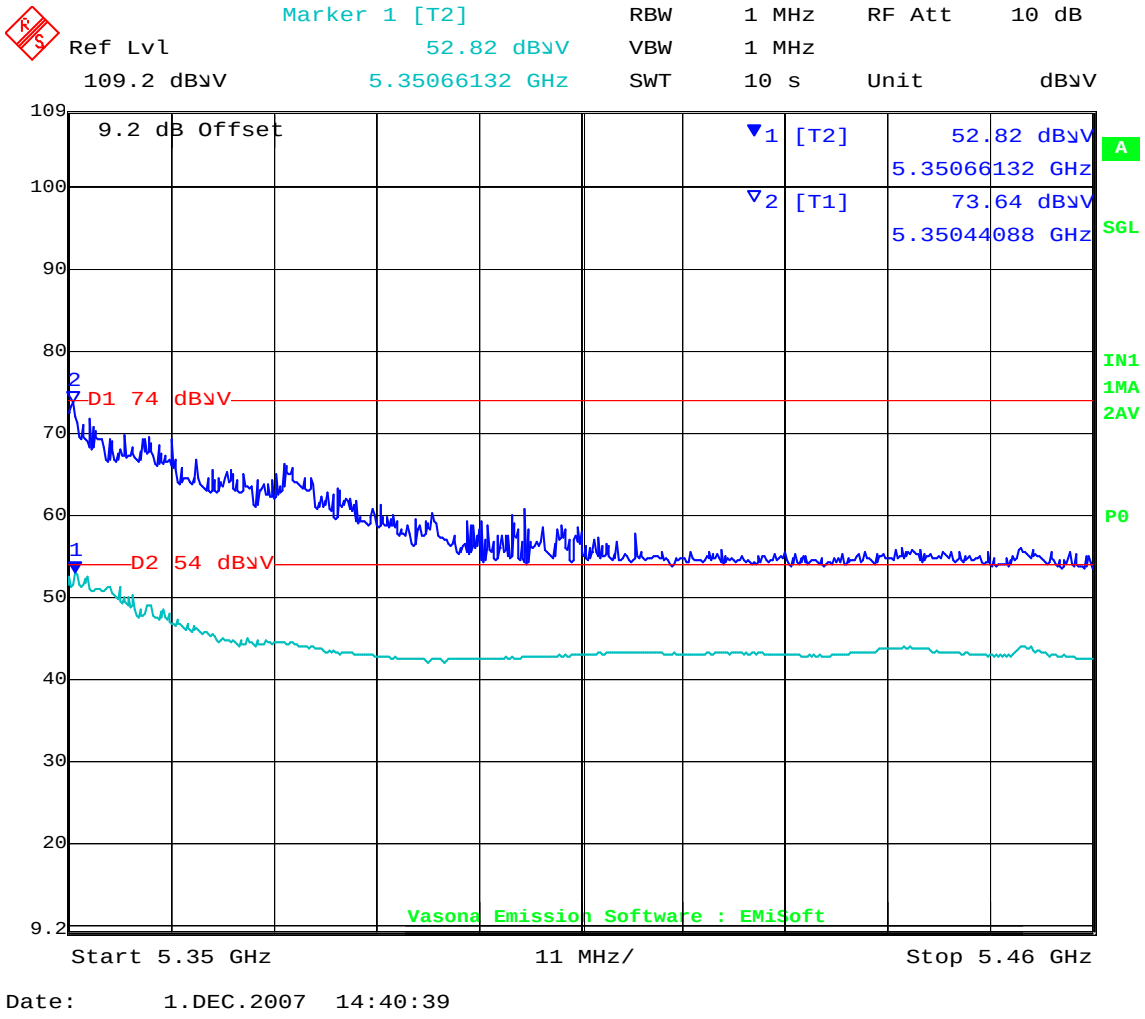
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5301.904	68.95	10.62	34.75	114.32	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5350.000	ART power Setting = 13.5				Peak Max	V			74	-0.36	Pass	Band-edge
5350.000					Average Max	V			54	-1.18	Pass	Band-edge



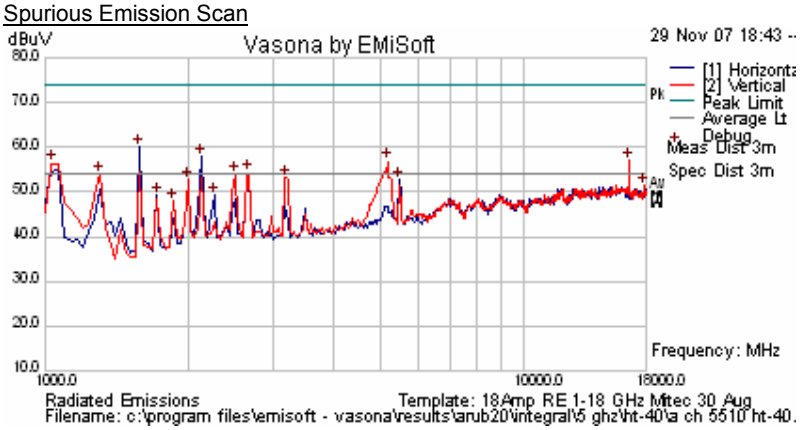
HT-40 Band-edge @ 5350 MHz - Integral antenna

AP125: 5470-5725 MHz INTEGRAL HT-40 Data Rates

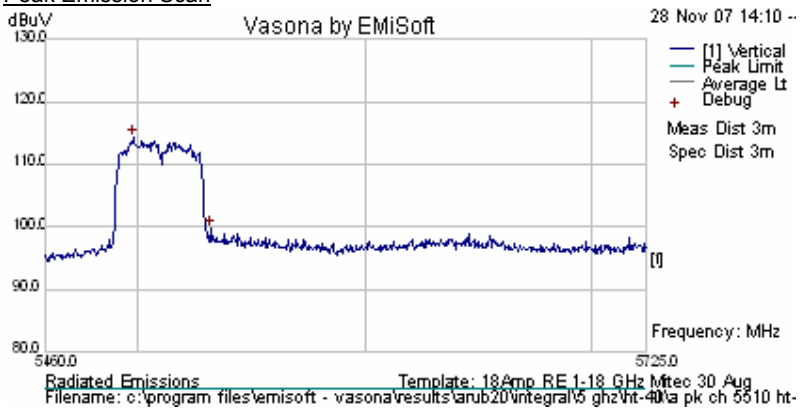
ARUB20 AP125 - INTEGRAL Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5510	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

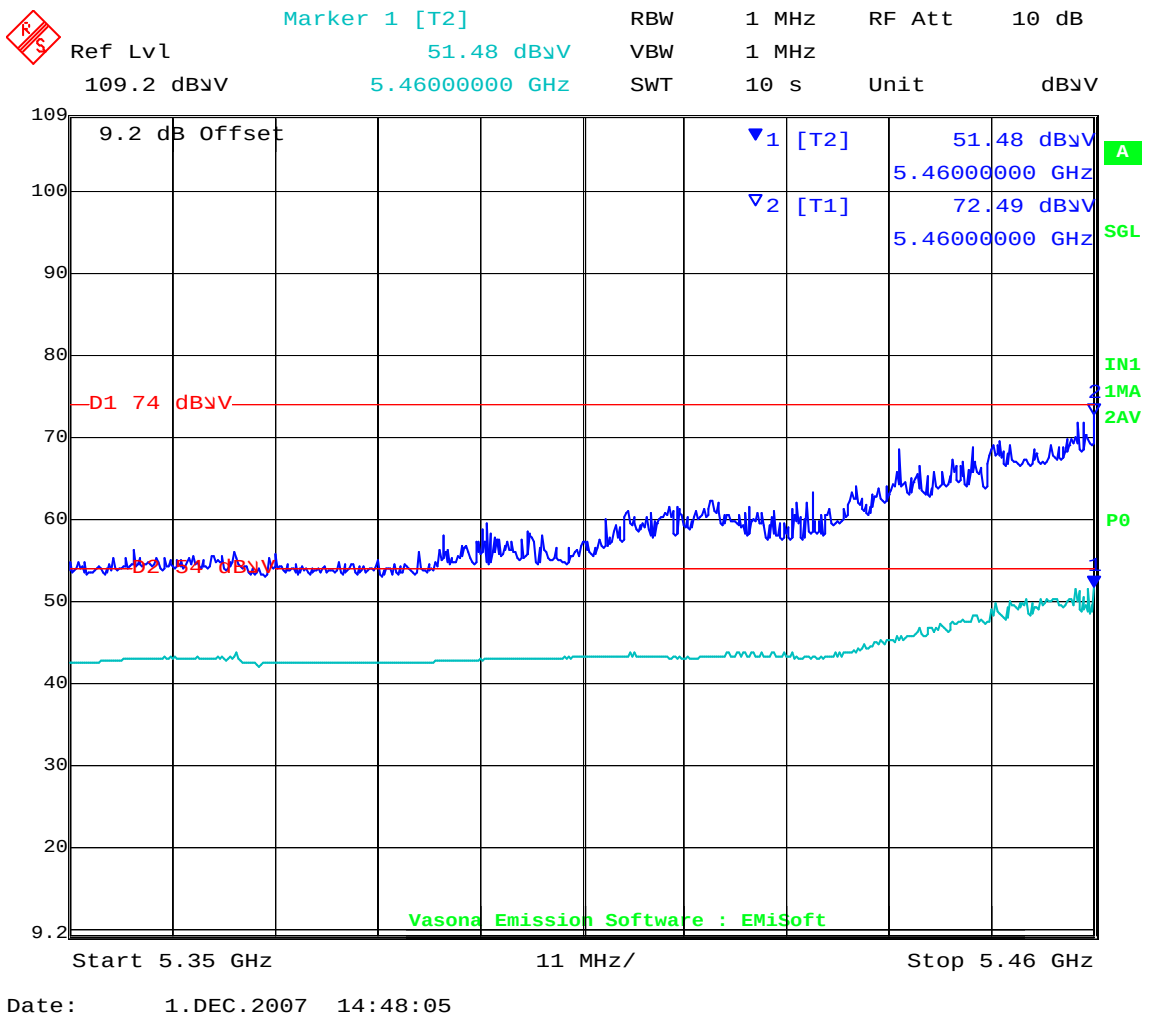
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5498.236	68.74	10.62	34.9	114.26	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5460.000	ART Power Setting = 14.5				Peak Max	V			74	-1.51	Pass	Band-edge
5460.000					Average Max	V			54	-2.52	Pass	Band-edge
16535.07	49.15	8.8	-0.95	56.99	Peak [Scan]	V	100	0	68.23	-11.24	Pass	

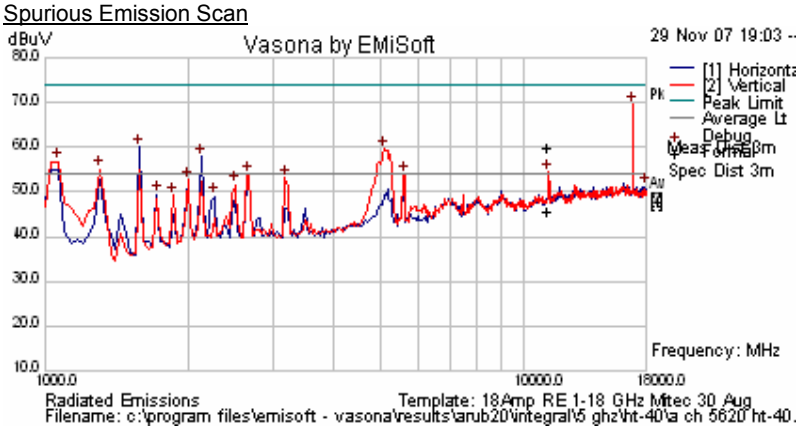


HT-40 Band-edge @ 5460 MHz - Integral antenna

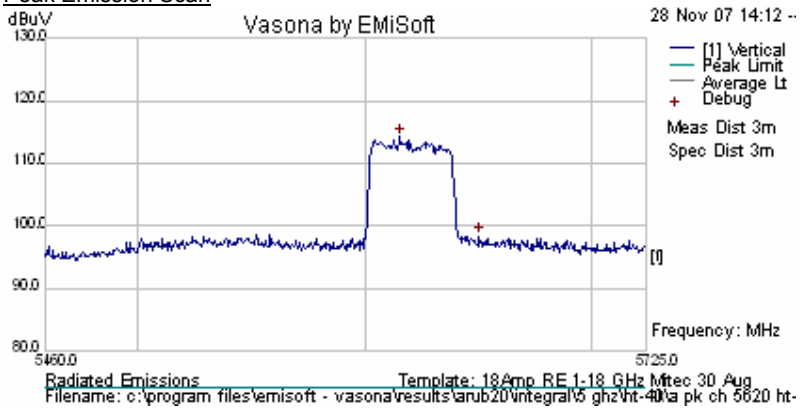
ARUB20 AP125 - INTEGRAL Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5620	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

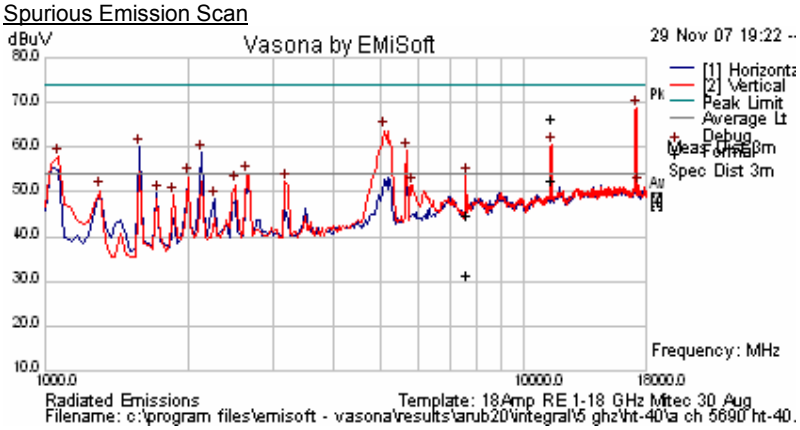


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5615.07	68.64	10.68	35	114.32	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11244.51	52.62	6.88	-1.83	57.66	Peak Max	V	98	81	74	-16.34	Pass	
11244.51	38.39	6.88	-1.83	43.44	Average Max	V	98	81	54	-10.56	Pass	
16875.75	60.53	7.16	-0.97	66.72	Peak [Scan]	H	100	0	68.23	-1.51	Pass	

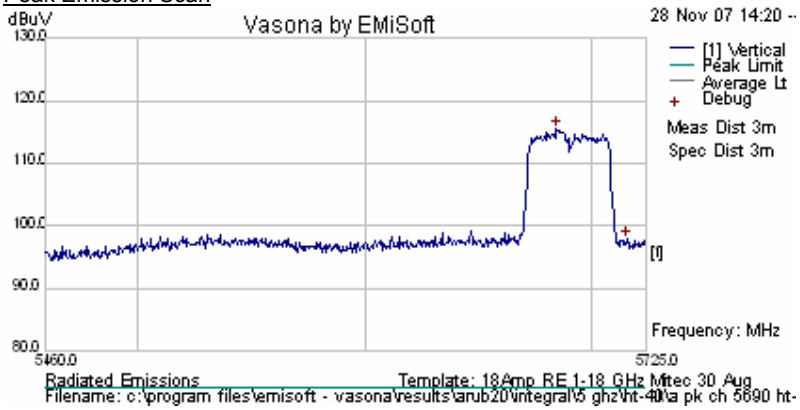
ARUB20 AP125 - INTEGRAL Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5690	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band
*Reduction in output power required to bring into compliance

Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5684.639	69.64	10.72	35.05	115.41	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11380.78	59.13	6.83	-1.76	64.21	Peak Max	V	131	61	74	-9.79	Pass	
7586.423	41.08	5.5	-3.72	42.86	Peak Max	V	140	344	74	-31.14	Pass	
11380.78	45.53	6.83	-1.76	50.61	Average Max	V	131	61	54	-3.39	Pass	
7586.423	27.7	5.5	-3.72	29.48	Average Max	V	140	344	54	-24.52	Pass	
17114.23	58.98	7.54	-0.74	65.78	Peak [Scan]	H	100	0	68.23	-2.45	Pass	

ARUB20 AP-125 (ANT-10)
ART Settings V Aggregate Measured Power

The following matrix identifies the ART power setting V's each output chain. The aggregate power was also measured for all three chains.

As a result of either spurious emissions (harmonic) or band-edge issues the power was reduced to bring the unit into compliance.

Configuration	ART Power Setting	Tx 1 Measured Pwr (dBm)	Tx 2 Measured Pwr (dBm)	Tx 3 Measured Pwr (dBm)	Aggregate Measured Pwr (dBm)
Legacy a (5150 | 5180 MHz)BE	14	11.83	11.74	12.61	17.3
Legacy a (5350 | 5320 MHz)BE	14.5	12.04	12.55	11.84	17.58
Legacy a (5460 | 5150 | 5745 MHz)BE	16	13.10	12.95	14.10	19.02
Legacy a (5460 | 5500 MHz)BE	15	13.09	13.04	12.26	18.79
HT-20 (5150 | 5180 MHz)BE	13	10.92	10.71	11.44	15.51
HT-20 (5350 | 5320 MHz)BE	14	11.43	11.82	11.16	16.89
HT-20 (5460 | 5150 | 5745 MHz)BE	16	13.00	13.00	13.84	18.87
HT-20 (5460 | 5500 MHz)BE	15	13.08	13.01	13.09	18.78
HT-40 (5150 | 5190 MHz)BE	10	7.38	7.38	8.35	12.91
HT-40 (5350 | 5310 MHz)BE	11.5	8.92	9.56	8.90	14.41
HT-40 (5150 | 5190 | 5755 MHz)BE	14	10.67	10.65	11.48	16.76
HT-40 (5460 | 5510 MHz)BE	13	10.67	10.79	10.52	16.17

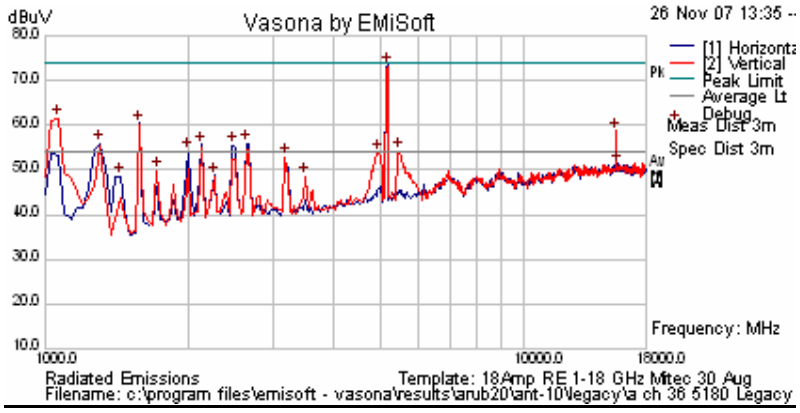
Note BE = Band-edge, SE – Spurious emissions

AP124: 5150-5250GHz ANT-10 (6dBi) Legacy Data Rates

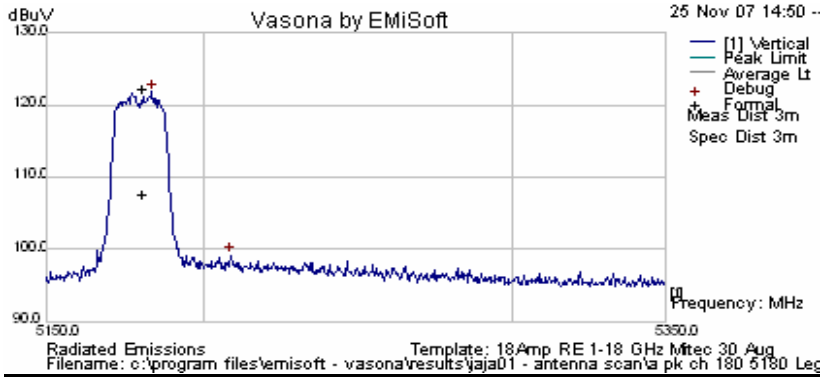
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
36	5180	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

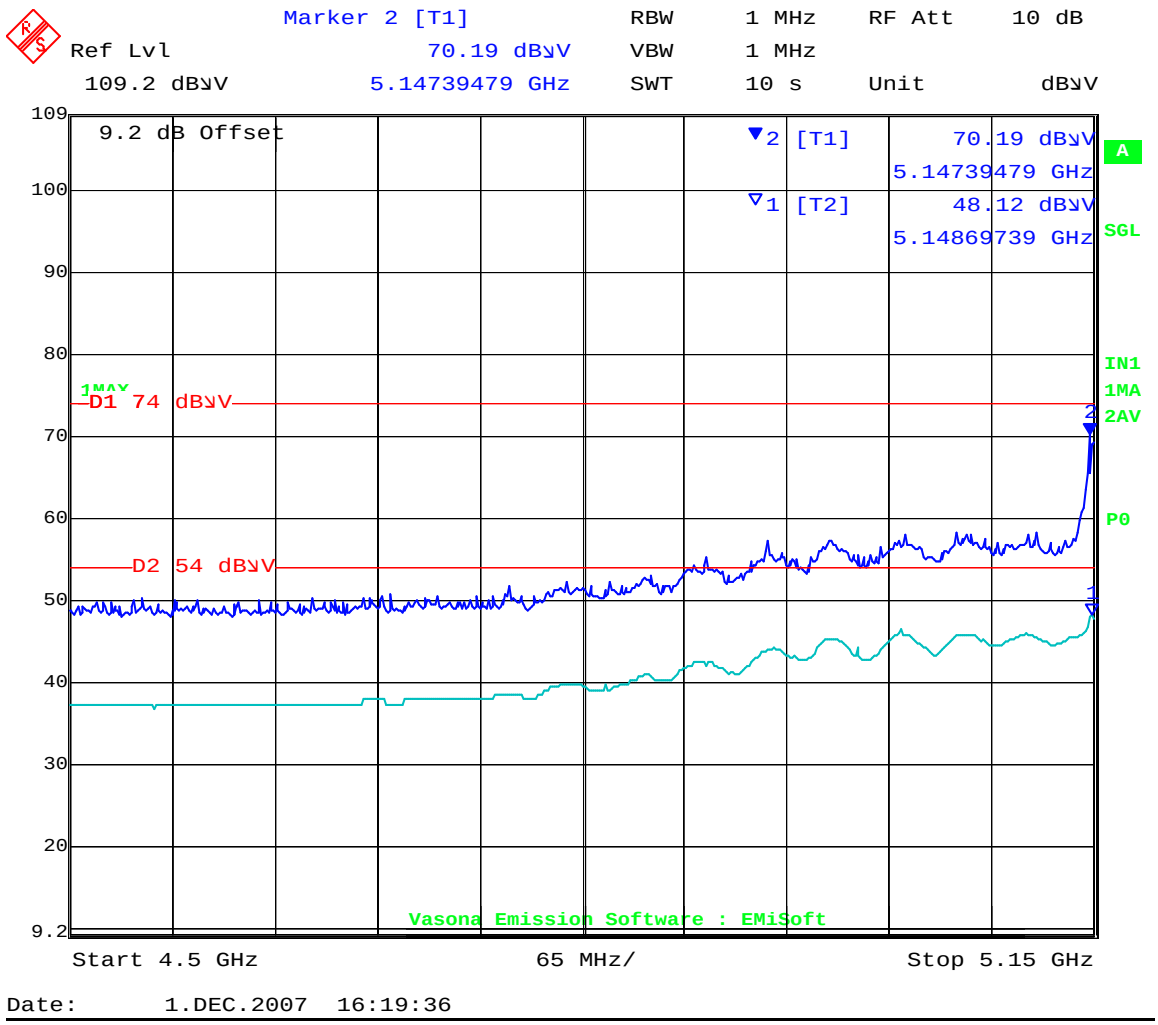
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5183.667	76.51	10.62	34.65	121.78	Peak [Scan]	H	100	0	N/A	N/A	N/A	Fundamental
5150.000	ART Power Setting = 14				Peak Max	V			74	-3.81	Pass	Band-edge
5150.000					Average Max	V			54	-5.88	Pass	Band-edge
15547.09	51.68	8.29	-1.06	58.91	Peak [Scan]	V	100	0	74	-15.09	Pass	

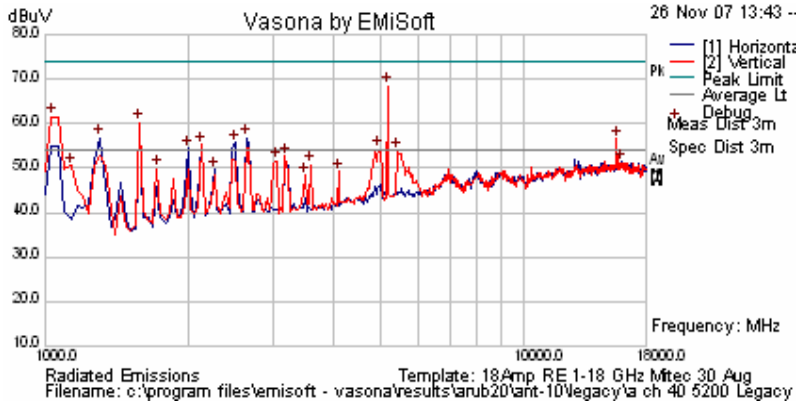


802.11a Legacy Band-edge @ 5150 MHz with ANT-10

ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
40	5200	ART 17	99%	a 6 Legacy	Yes

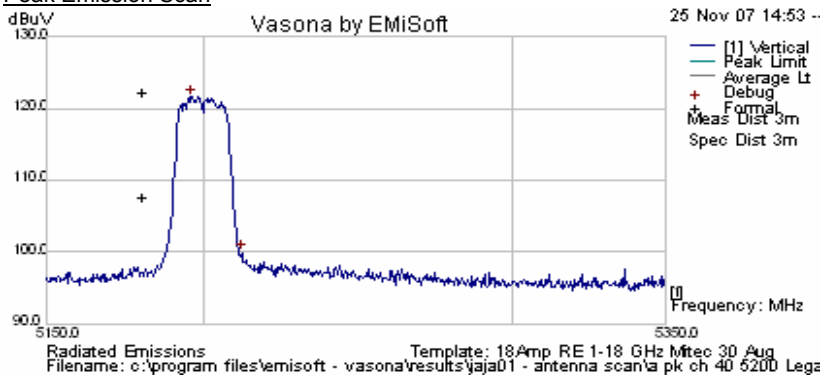
Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Spurious Emission Scan

Peak Emission Scan

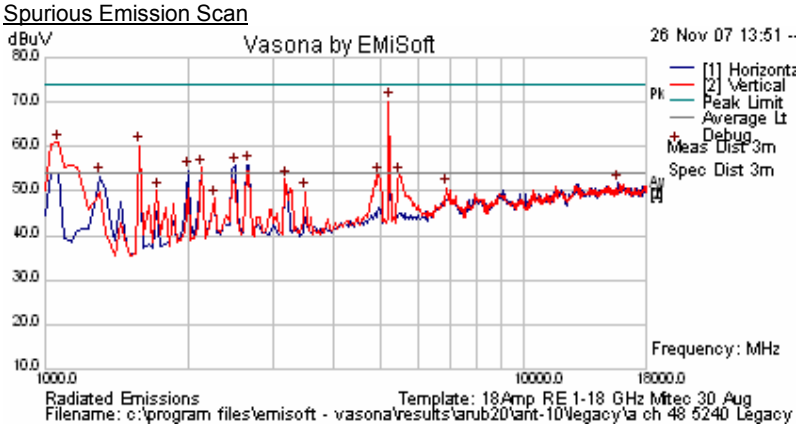


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5196.493	76.38	10.62	34.66	121.66	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
15615.23	49.26	8.4	-1.14	56.52	Peak [Scan]	V	100	0	74	-17.48	Pass	

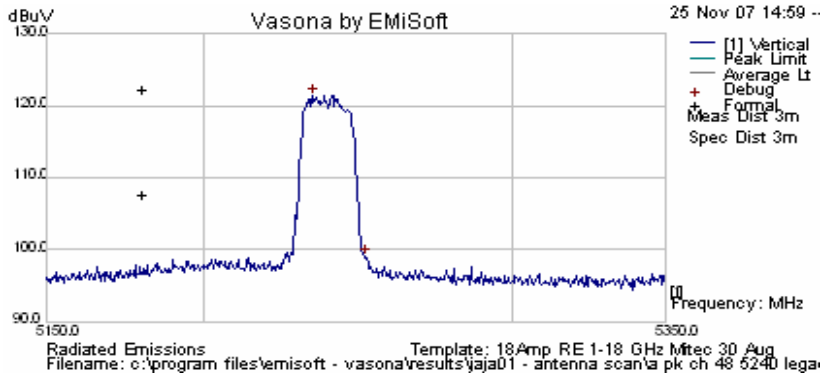
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
48	5240	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan



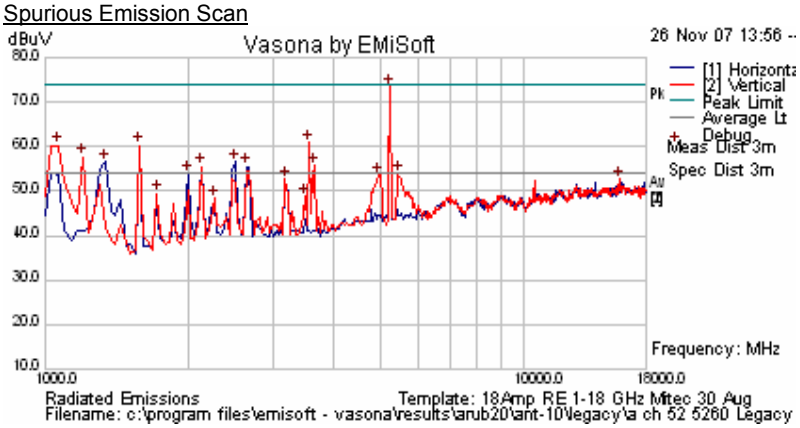
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5235.371	76.1	10.62	34.69	121.42	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental

AP124: 5250-5350GHz ANT-10 (6dBi) Legacy Data Rates

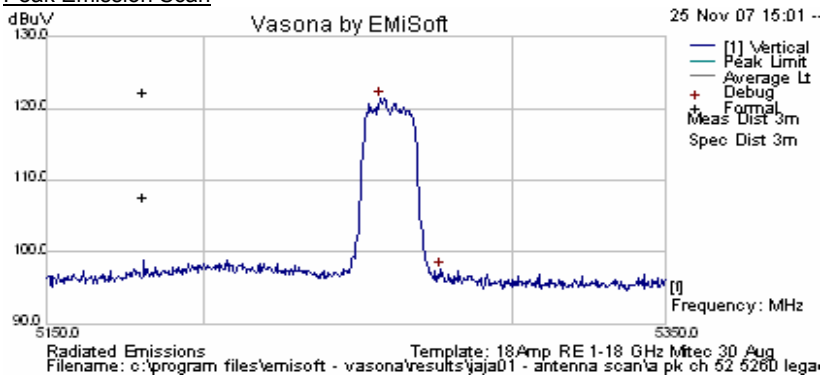
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
52	5260	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

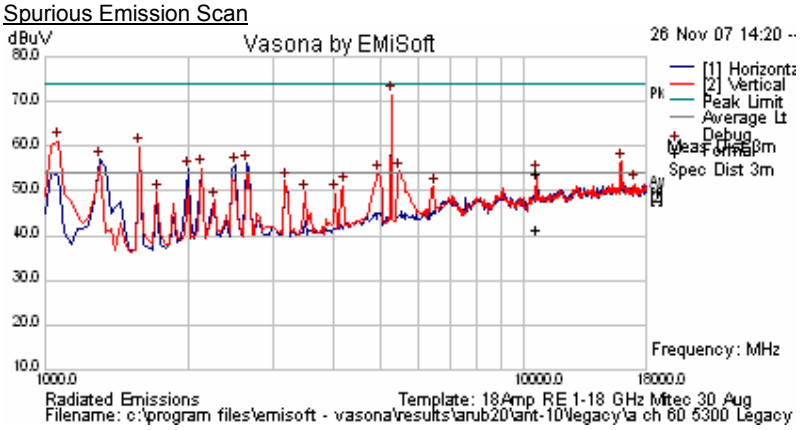


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5257.014	76.08	10.62	34.71	121.41	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental

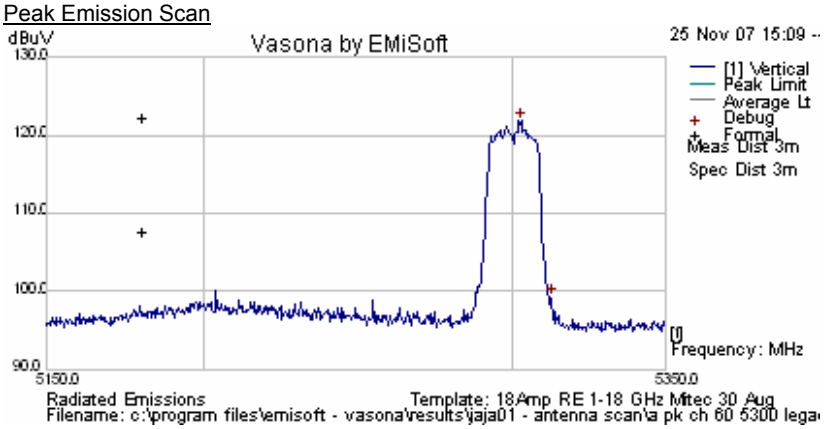
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
60	5300	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

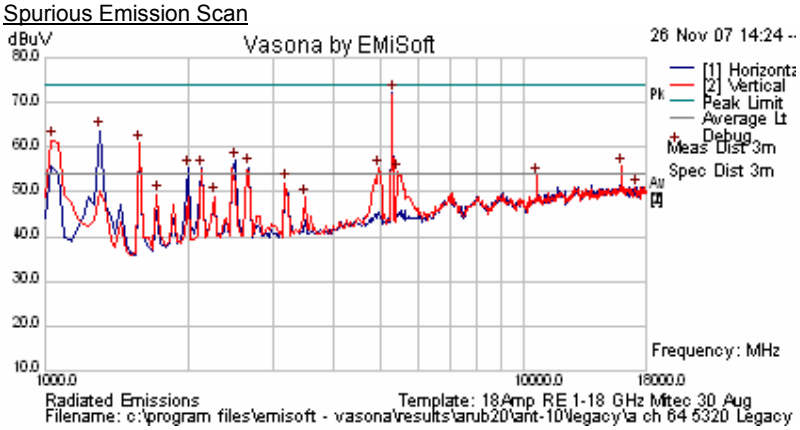


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5302.705	76.54	10.62	34.75	121.9	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
10603.22	45.92	6.82	-1.08	51.66	Peak Max	V	126	309	68.23	-16.57	Pass	
15921.84	48.64	8.9	-1.00	56.53	Peak [Scan]	V	100	0	68.23	-11.70	Pass	

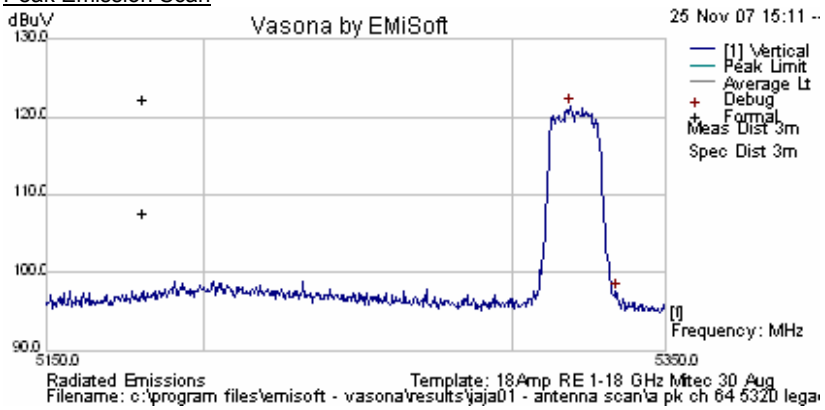
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
64	5320	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

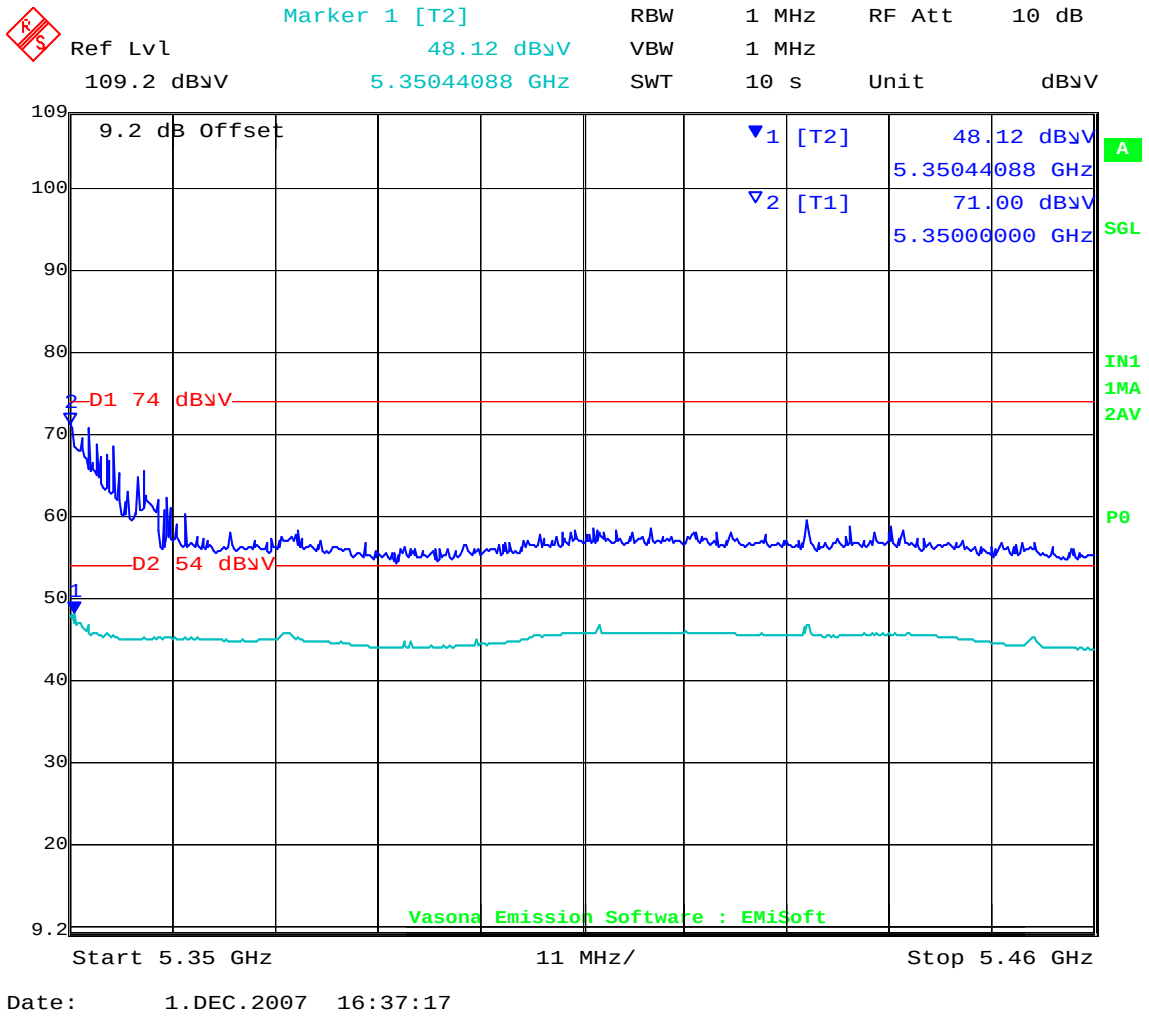
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5318.737	76.02	10.62	34.76	121.4	Peak [Scan]	V	100	0	54	67.4	N/A	Fundamental
5350	ART power Setting = 14.5				Peak Max	V			74	-3.00	Pass	Band-edge
5350					Average Max	V			54	-5.88	Pass	Band-edge
10641.2	46.29	6.82	-1.08	52.03	Peak Max	V	126	309	74	-21.97	Pass	
10641.2	33.76	6.82	-1.08	39.5	Average Max	V	126	309	54	-14.5	Pass	
15989.98	47.77	9	-1.02	55.76	Peak [Scan]	V	100	0	68.23	-12.47	Pass	



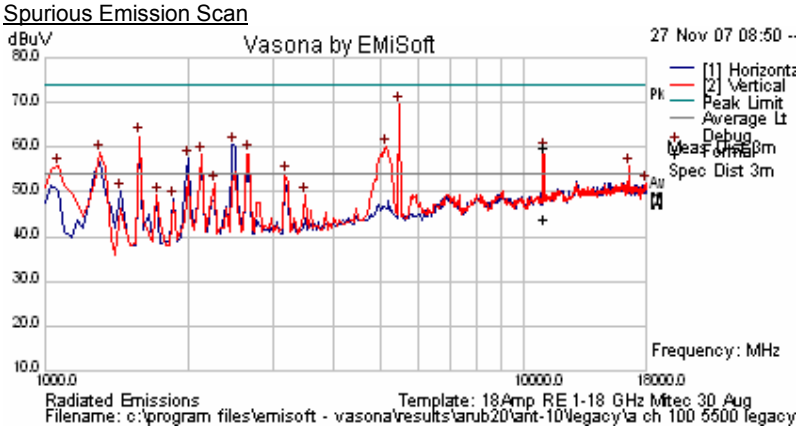
802.11a Legacy Band-edge @ 5350 MHz with ANT-10

AP124 - ANT-10 (6dBi) Legacy Data Rates

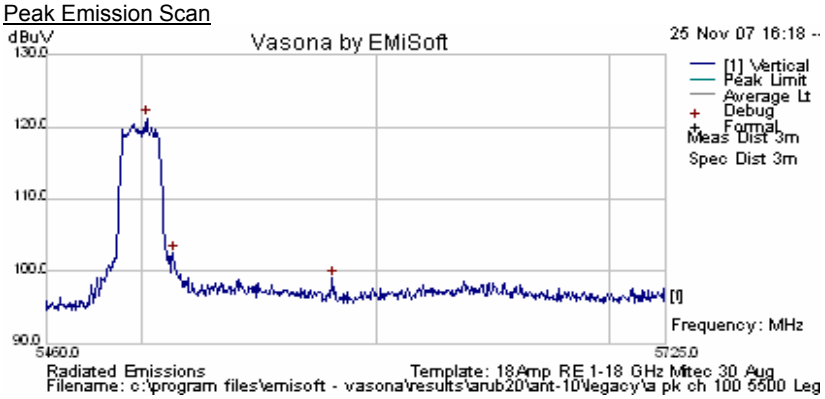
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
100	5500	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

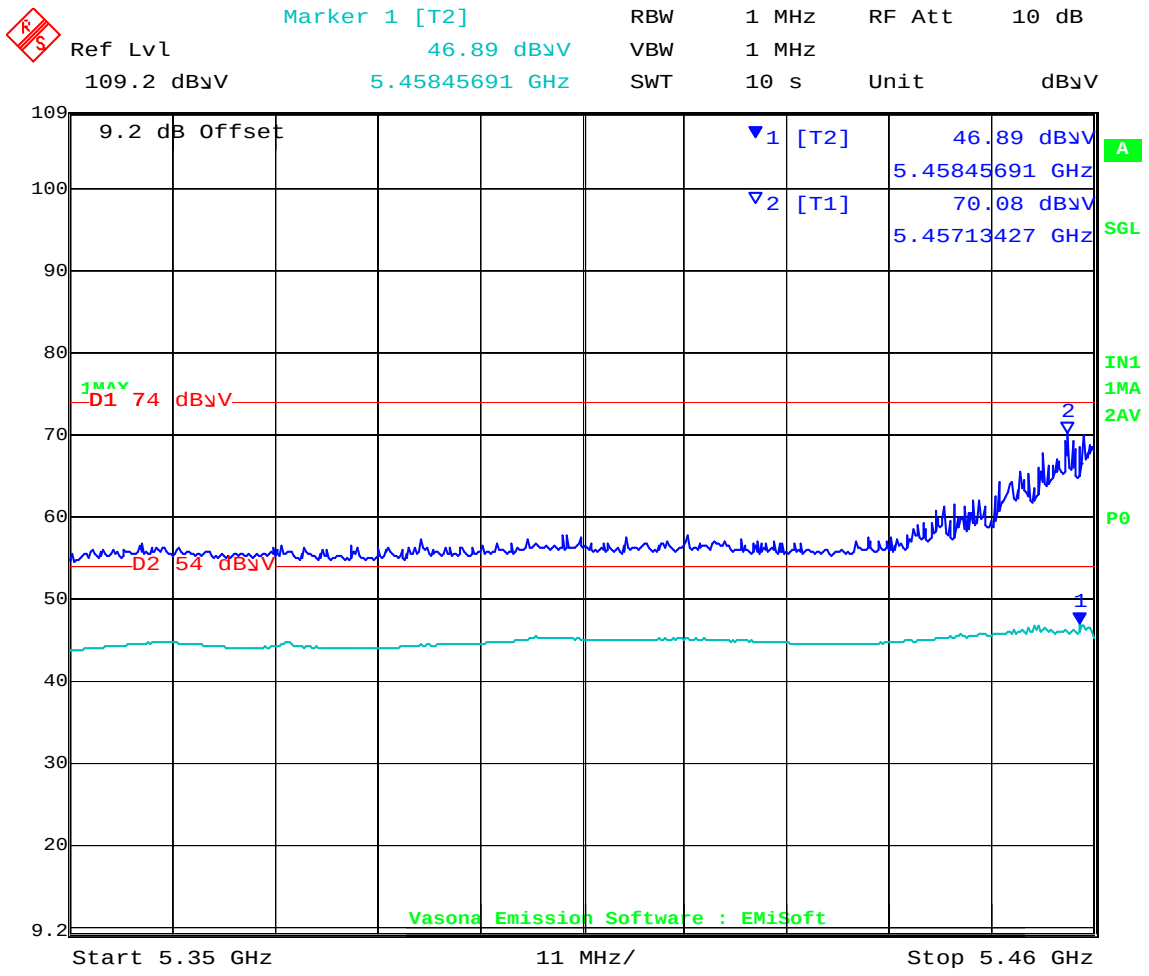
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5502.485	75.68	10.62	34.9	121.2	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5460.000	ART Power Setting = 15.0				Peak Max				74	-3.92	Pass	Band-edge
5460.000					Average Max				54	-7.11	Pass	Band-edge
10995.31	52.47	6.97	-1.53	57.91	Peak Max	V	103	293	74	-16.09	Pass	
10995.31	36.48	6.97	-1.53	41.92	Average Max	V	103	293	54	-12.08	Pass	
16535.07	47.92	8.8	-0.95	55.77	Peak [Scan]	H	100	0	68.23	-12.46	Pass	

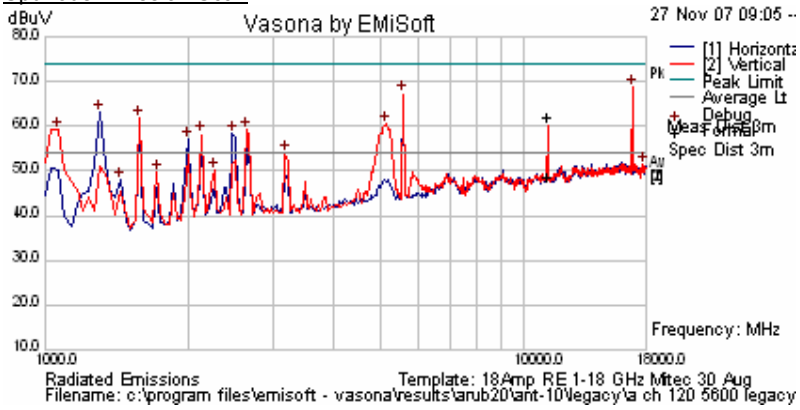


802.11a Legacy Band-edge @ 5460 MHz with ANT-10

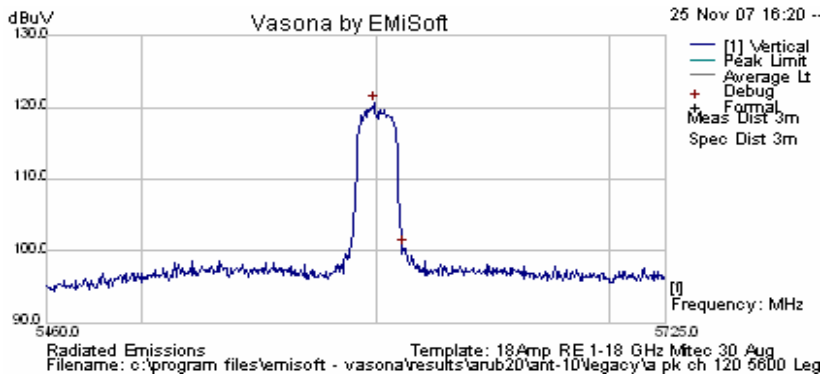
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
120	5600	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

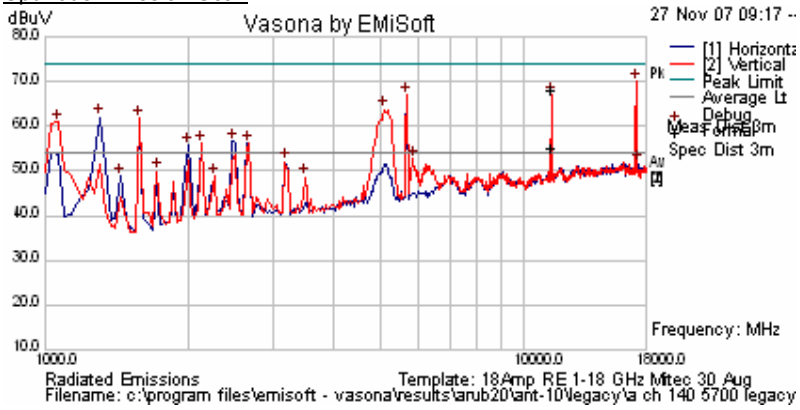


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5598.607	75.02	10.68	34.98	120.67	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11204.3	55.14	6.9	-1.83	60.2	Peak Max	V	98	333	74	-13.8	Pass	
11204.3	41.69	6.9	-1.83	46.75	Average Max	V	98	333	54	-7.25	Pass	
16807.62	61.13	7.5	-0.99	67.64	Peak [Scan]	V	100	0	68.23	-0.59	Pass	

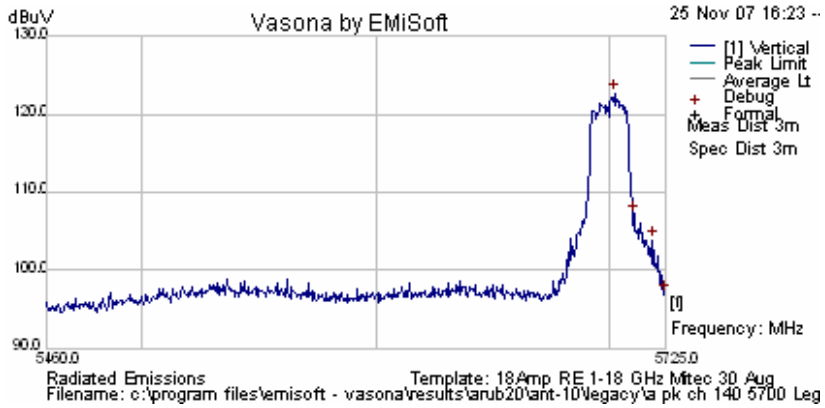
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
140	5700	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan



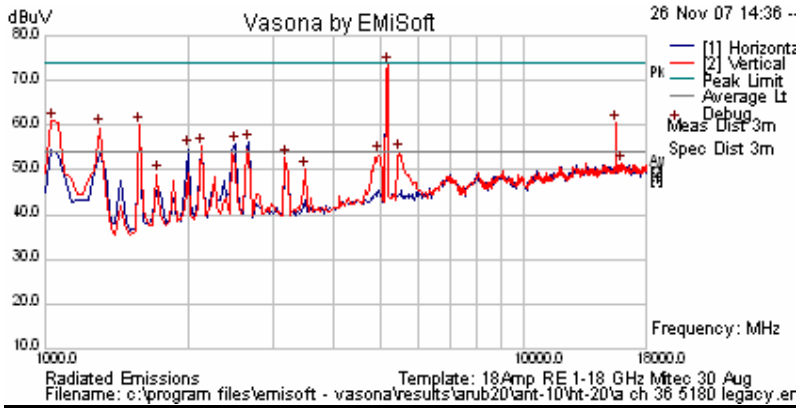
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5702.695	76.87	10.73	35.07	122.67	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11402.93	60.88	6.82	-1.73	65.97	Peak Max	V	103	302	74	-8.03	Pass	
11402.93	47.95	6.82	-1.73	53.05	Average Max	H	105	310	54	-0.95	Pass	
17114.23	60.29	6.37	-0.74	65.92	Peak [Scan]	H	100	0	68.23	-2.31	Pass	

AP124: 5150-5250GHz ANT-10 (6dBi) HT-20 Data Rates

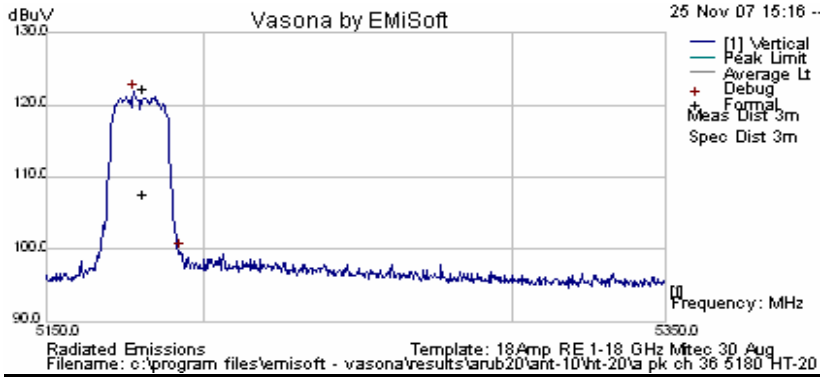
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
36	5180	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

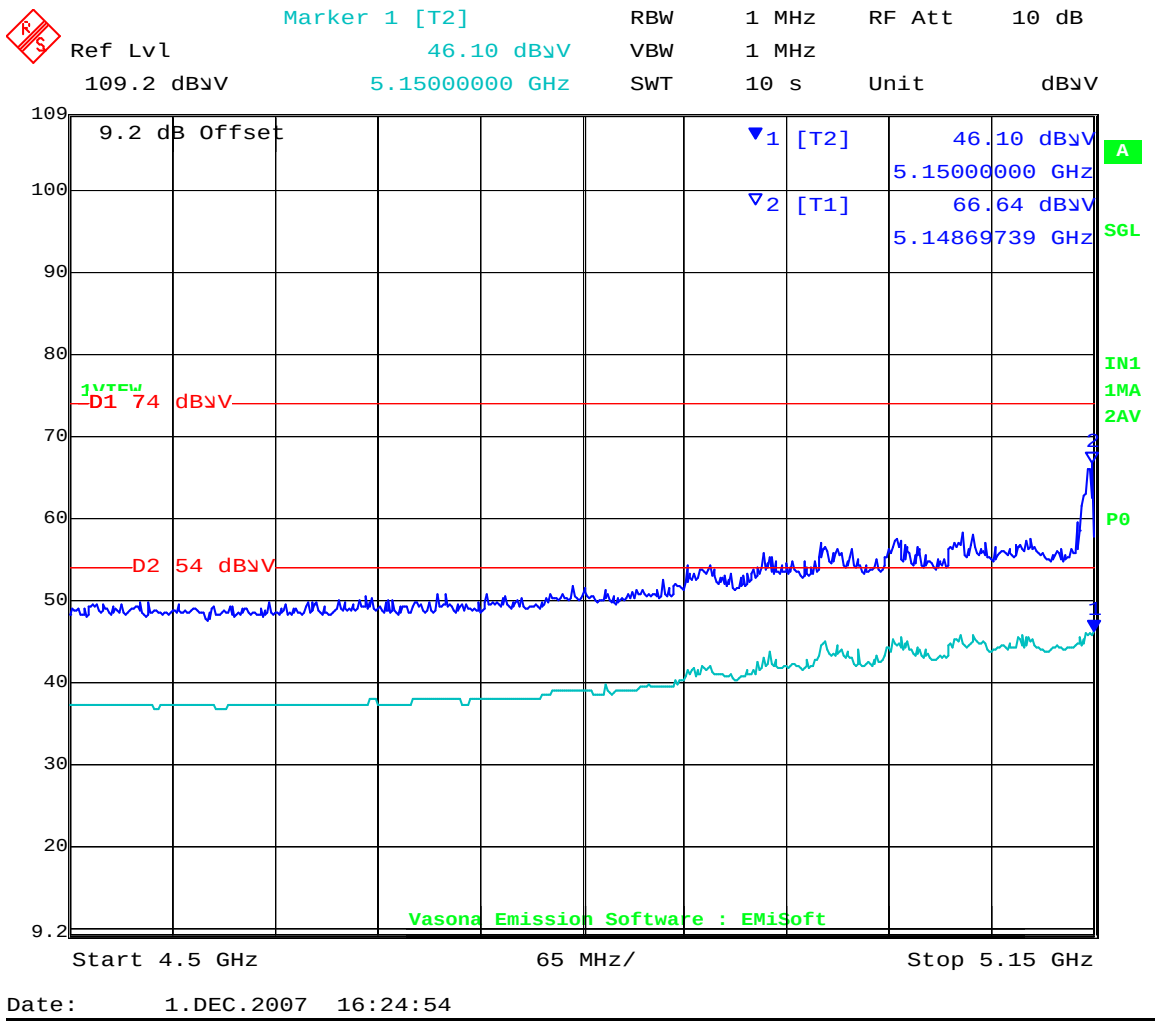
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5178.056	76.55	10.62	34.65	121.82	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5150.000	ART Power Setting = 13.0				Peak Max				74	-7.36	Pass	Band-edge
5150.000					Average Max				54	-7.90	Pass	Band-edge
15595.94	34.51	8.37	-1.18	41.7	Average	V	98	283	54	-12.3	Pass	
15595.94	52.62	8.37	-1.18	59.81	Peak	V	98	283	74	-14.19	Pass	

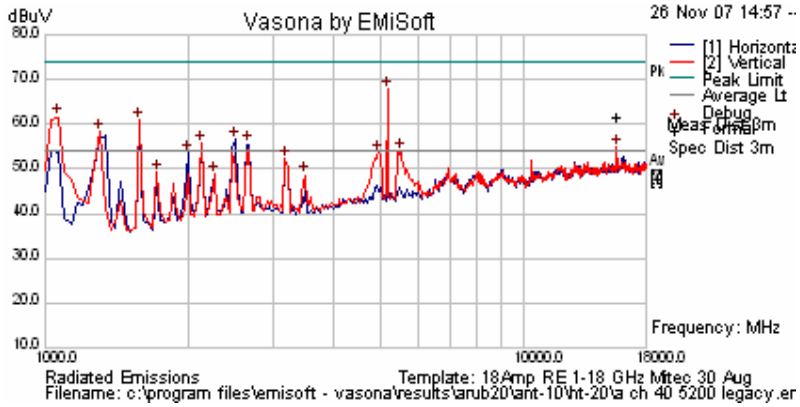


HT-20 Band-edge @ 5150 MHz with ANT-10

ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
40	5200	ART 17	99%	6.5 HT-20	Yes

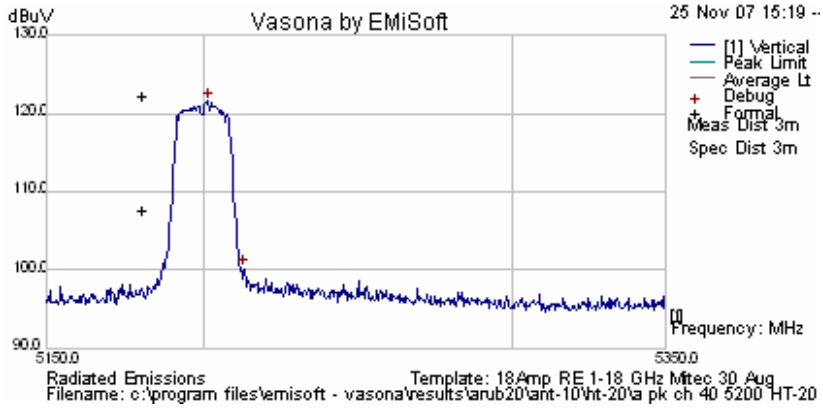
Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Spurious Emission Scan

Peak Emission Scan

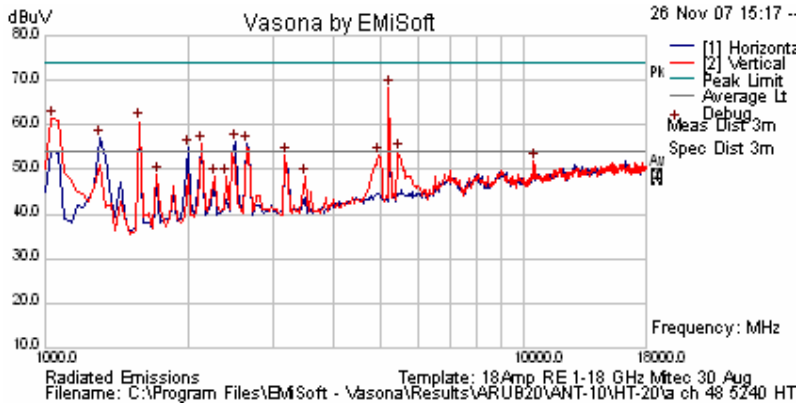


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5201.703	76.35	10.62	34.67	121.63	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
15595.94	34.51	8.37	-1.18	41.7	Average	V	98	283	54	-12.3	Pass	
15595.94	52.62	8.37	-1.18	59.81	Peak	V	98	283	74	-14.19	Pass	

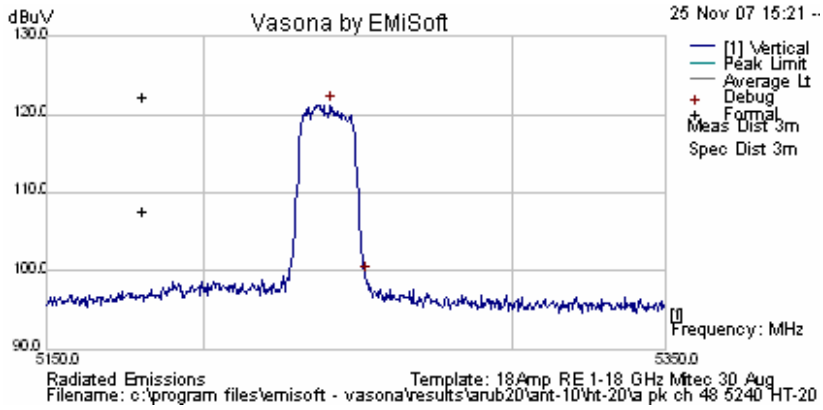
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
48	5240	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan



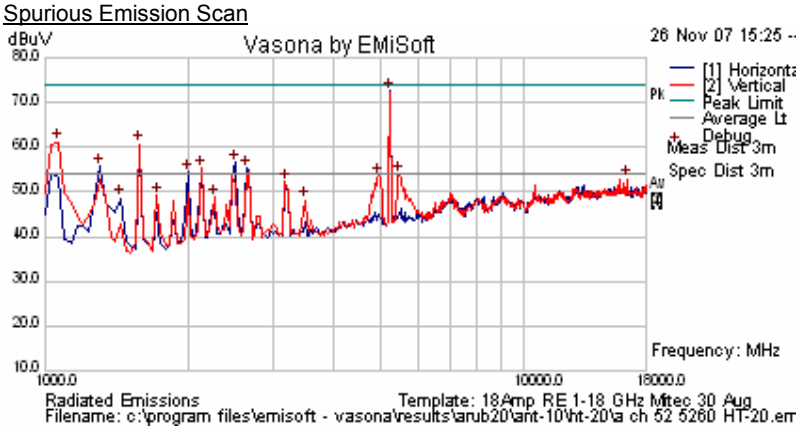
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5240.982	75.89	10.62	34.7	121.21	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental

AP124: 5250-5350GHz ANT-10 (6dBi) HT-20 Data Rates

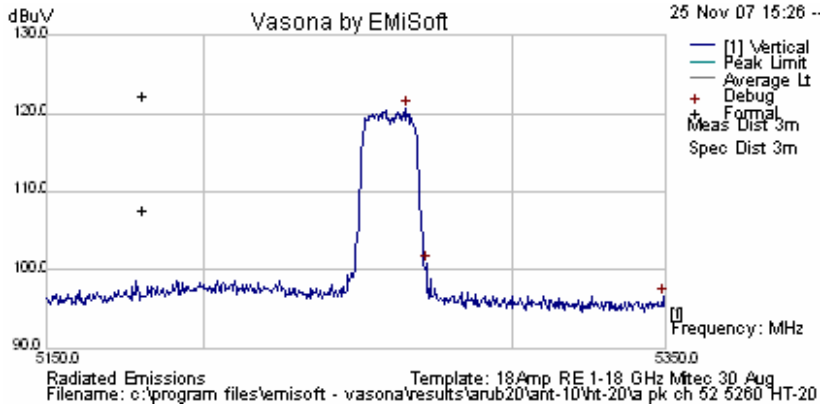
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
52	5260	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

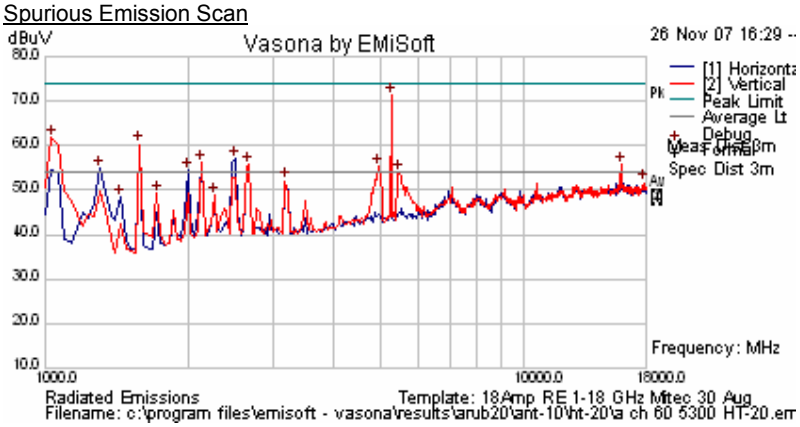


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5265.431	75.28	10.62	34.72	120.61	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental

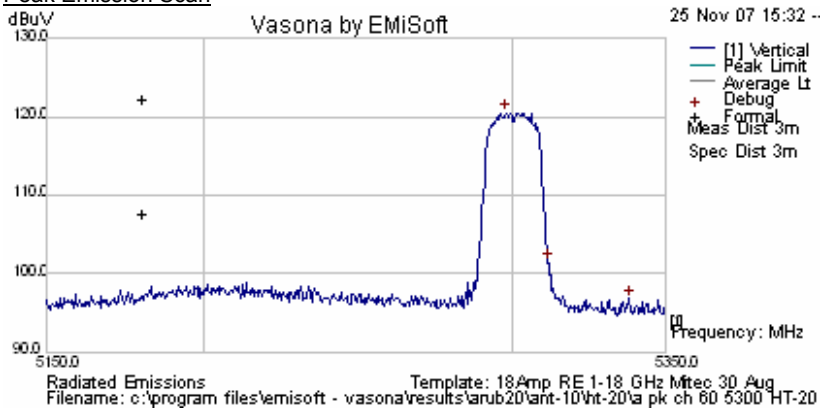
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
60	5300	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

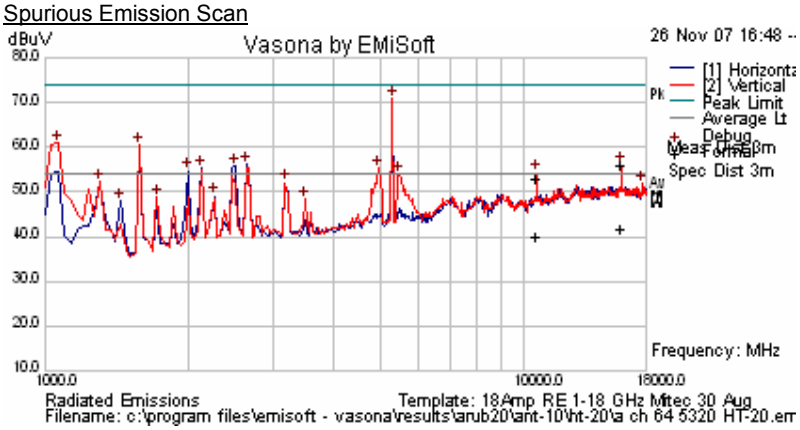


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5297.896	75.14	10.62	34.74	120.5	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
15901.95	48.73	8.86	-1.02	56.57	Peak	V	98	332	74	-17.43	Pass	
15901.95	33.54	8.86	-1.02	41.38	Average	V	98	332	54	-12.62	Pass	

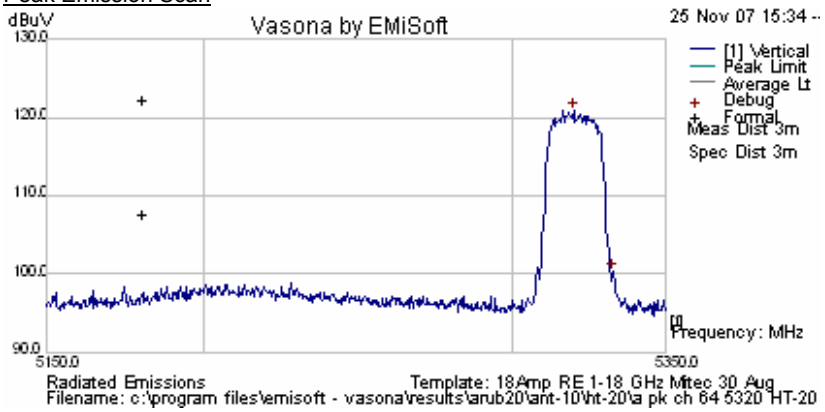
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
64	5320	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

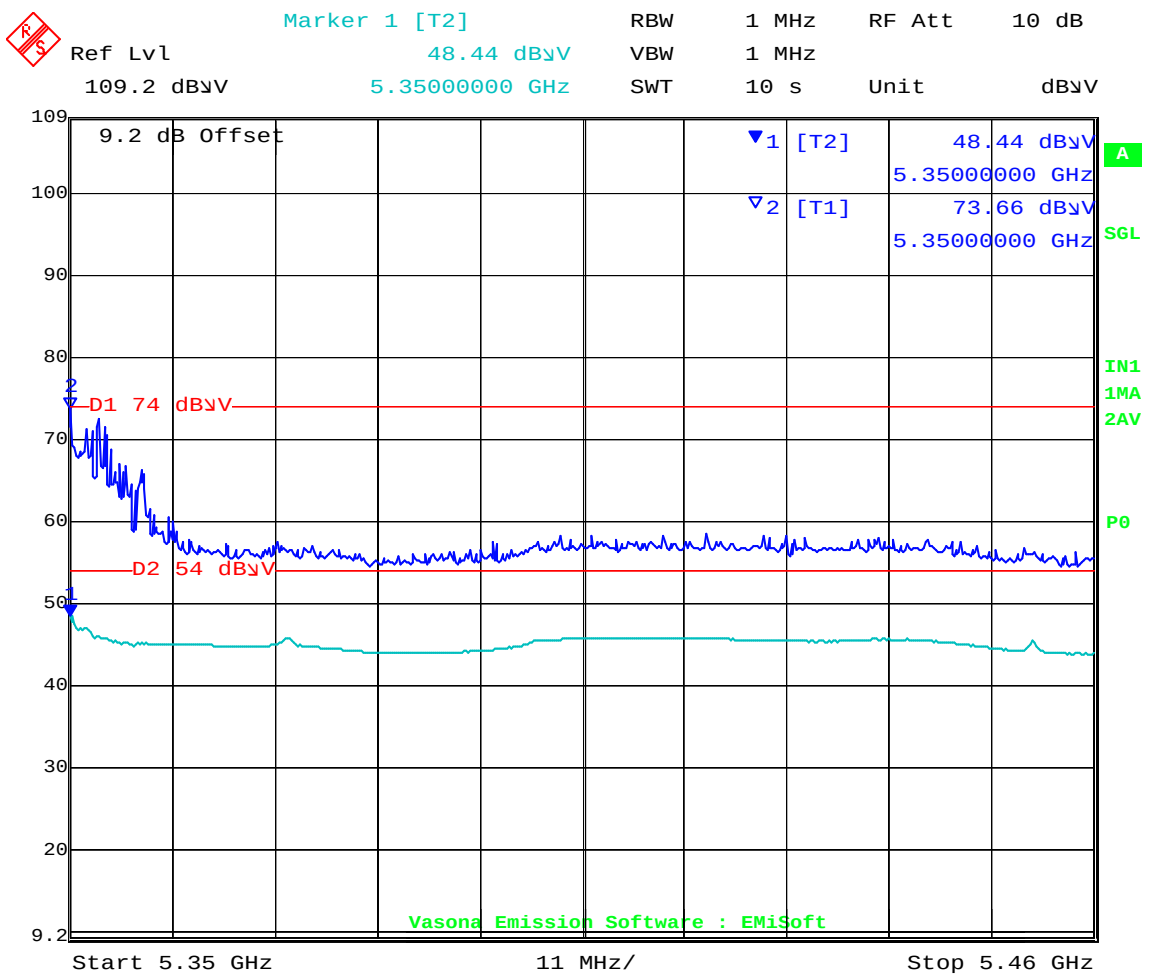
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5319.94	75.41	10.62	34.76	120.79	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5350	ART power Setting = 14.0				Peak Max	V			74	-0.34	Pass	Band-edge
5350					Average Max	V			54	-5.56	Pass	Band-edge
15961.72	45.92	8.96	-1.01	53.88	Peak Max	V	101	286	74	-20.12	Pass	
10641.28	45.25	6.83	-1.18	50.9	Peak Max	V	117	317	74	-23.1	Pass	
15961.72	31.78	8.96	-1.01	39.73	Average Max	V	101	286	54	-14.27	Pass	
10641.28	32.16	6.83	-1.18	37.82	Average Max	V	117	317	54	-16.18	Pass	



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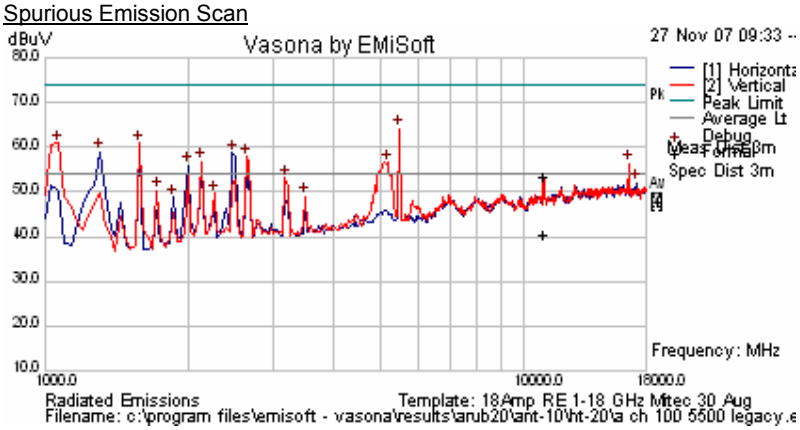
HT-20 Band-edge @ 5350 MHz with ANT-10

AP124 - ANT-10 (6dBi) HT-20 Data Rates

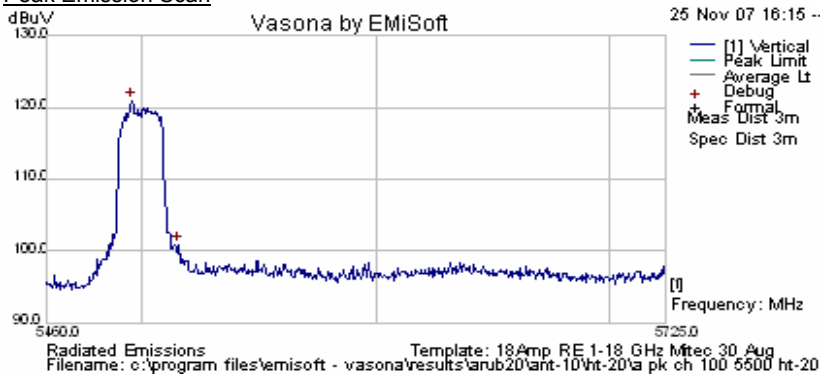
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
100	5500	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

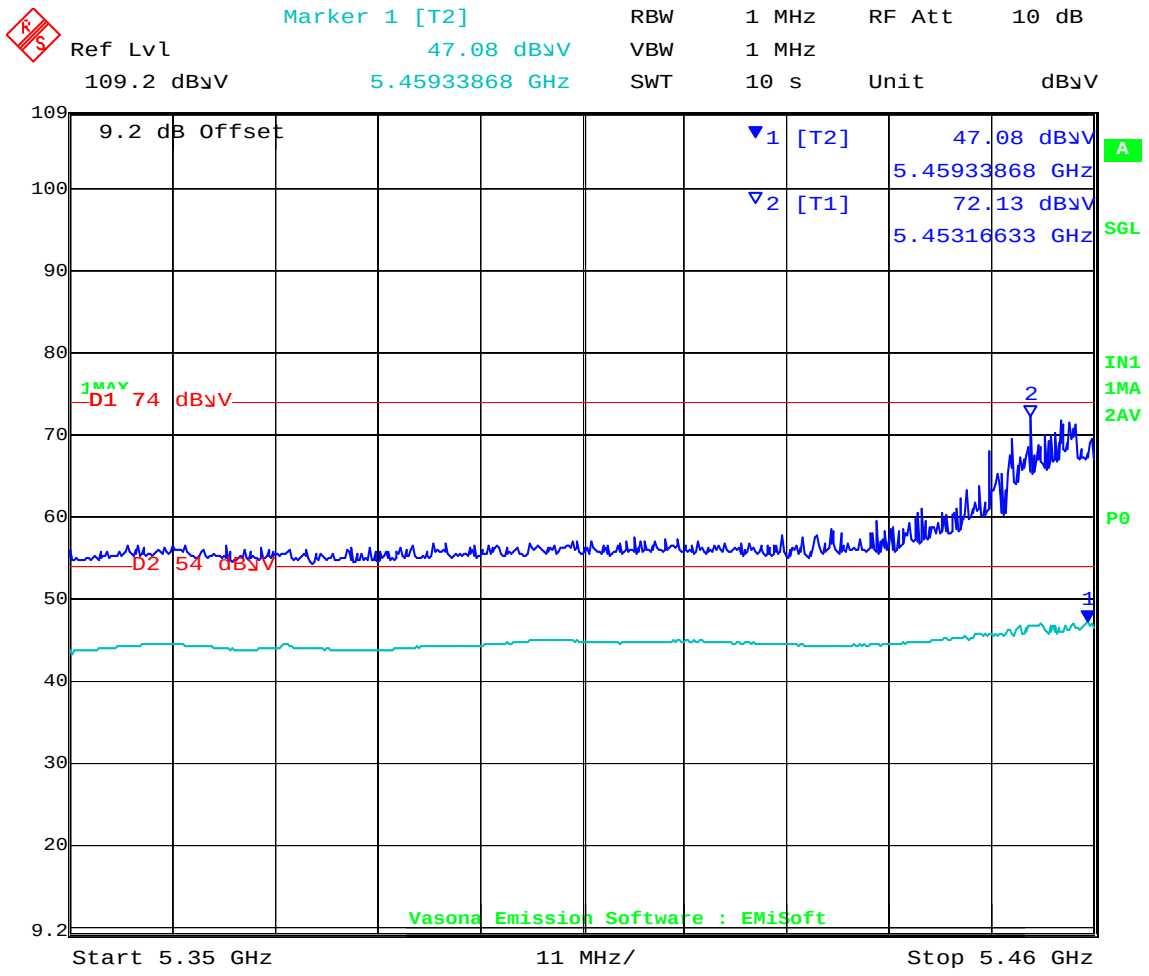
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5496.112	75.44	10.62	34.9	120.96	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5460.000	ART Power Setting = 15.0				Peak Max	V			74	-1.87	Pass	Band-edge
5460.000					Average Max	V			54	-6.92	Pass	Band-edge
11001.8	45.92	6.97	-1.54	51.35	Peak Max	V	98	55	74	-22.65	Pass	
11001.8	32.87	6.97	-1.54	38.3	Average Max	V	98	55	54	-15.7	Pass	

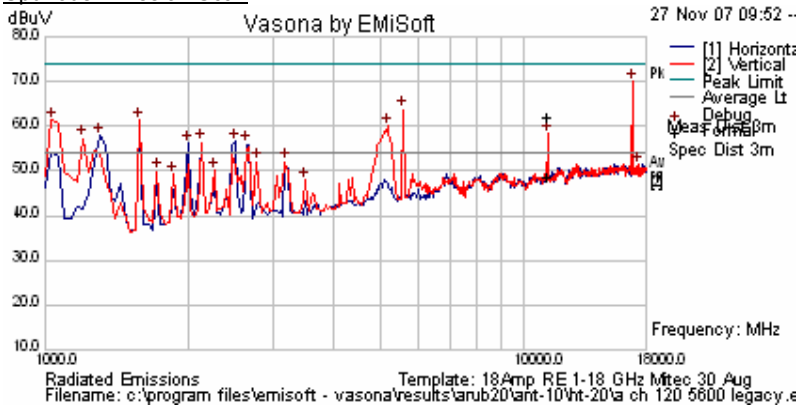


HT-20 Band-edge @ 5460 MHz with ANT-10

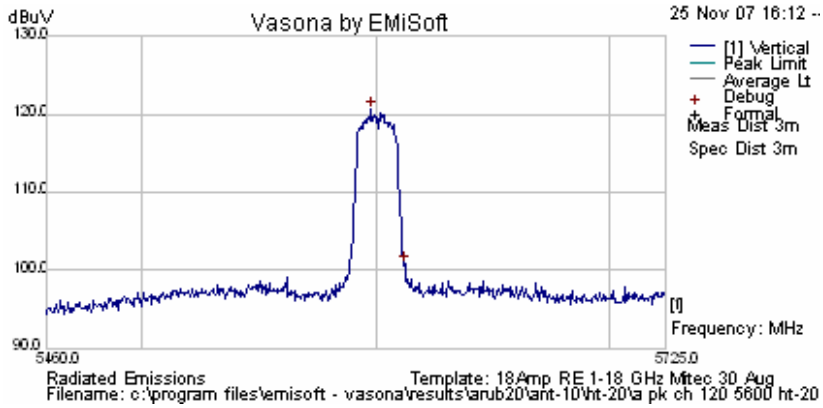
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
120	5600	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

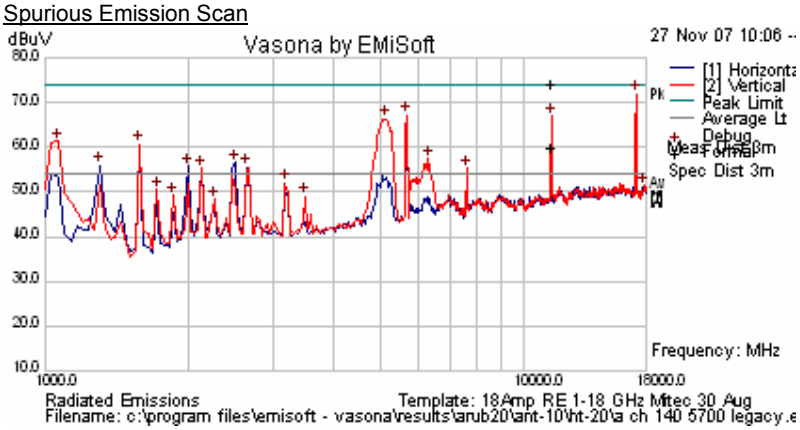


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5597.545	74.88	10.67	34.98	120.53	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11204.24	55.14	6.9	-1.83	60.2	Peak Max	V	115	56	74	-13.80	Pass	
11204.24	41.36	6.9	-1.83	46.42	Average Max	V	115	56	54	-7.58	Pass	
16807.62	61.02	7.2	-0.99	67.23	Peak [Scan]	H	100	0	68.23	-1.00	Pass	

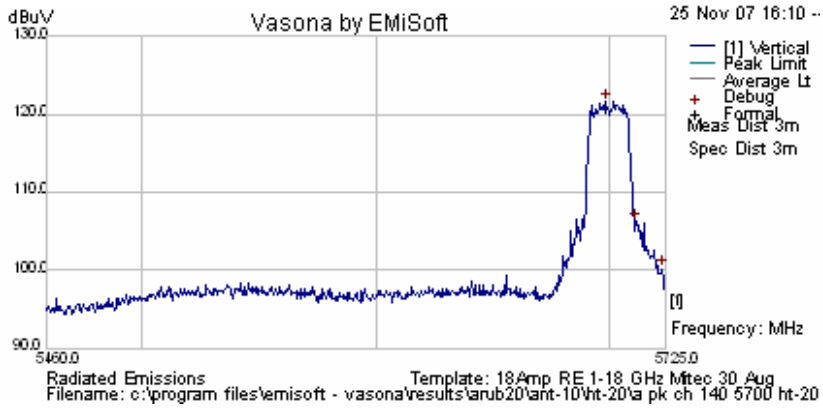
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
140	5700	ART 14	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

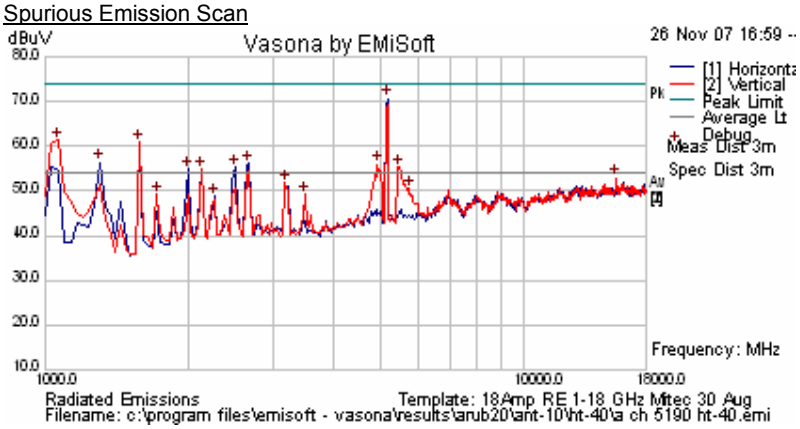


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5698.978	75.8	10.73	35.06	121.59	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11401.16	60.84	6.82	-1.73	65.93	Peak Max	V	106	299	74	-6.07	Pass	
11401.16	46.83	6.82	-1.73	51.92	Average Max	V	106	299	54	-2.08	Pass	
17114.23	62.2	6.37	-0.74	67.83	Peak [Scan]	H	100	0	68.23	-0.40	Pass	

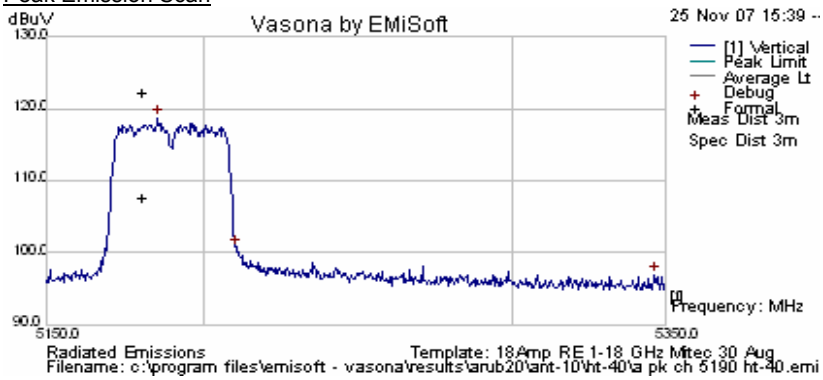
AP124: 5150-5250GHz ANT-10 (6dBi) HT-40 Data Rates

ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5190	ART 17	99%	13.5 HT-40	Yes

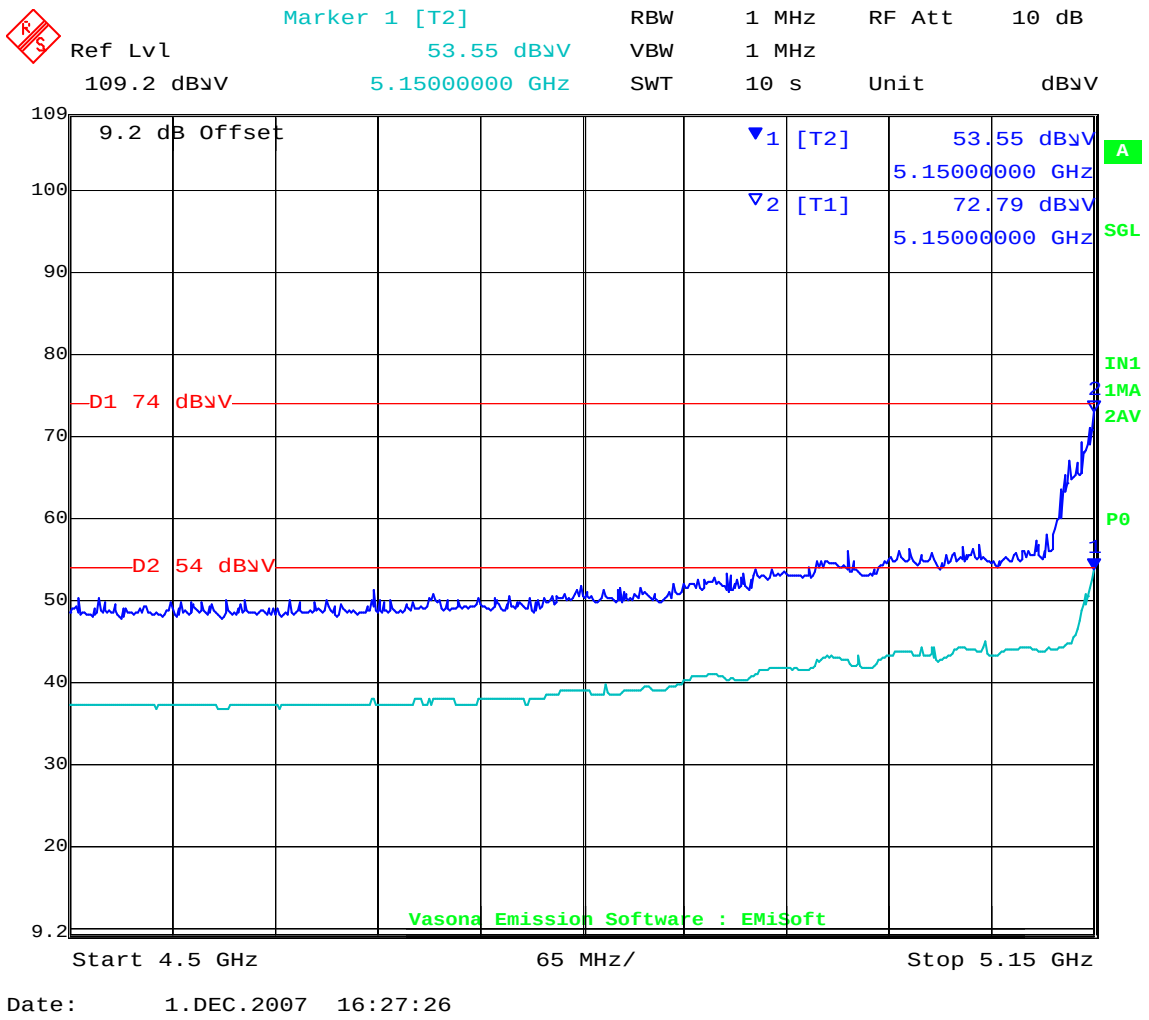
Three antennas operating simultaneously
NRB = None Restrictive Band
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5185.671	73.51	10.62	34.65	118.78	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5150.000	ART Power Setting = 10.0				Peak Max	V			74	-1.21	Pass	Band-edge
5150.000					Average Max	V			54	-0.45	Pass	Band-edge

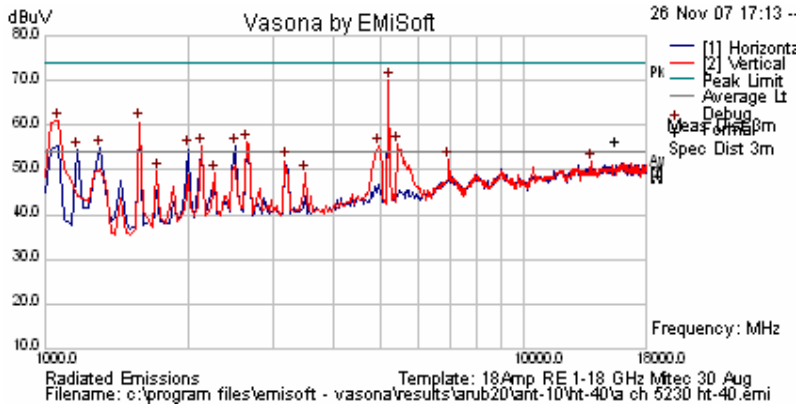


HT- 40 Band-edge @ 5150 MHz with ANT-10

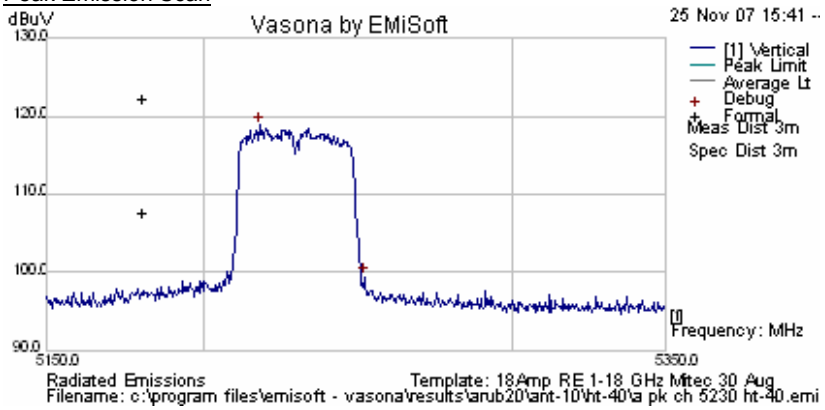
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5230	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

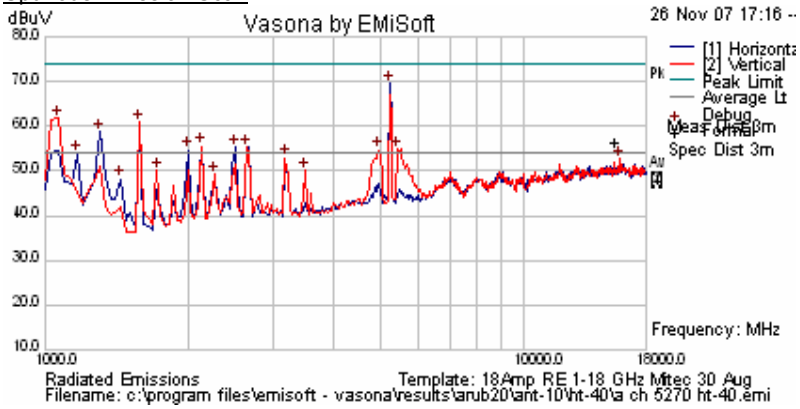


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5218.136	73.52	10.62	34.68	118.82	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental

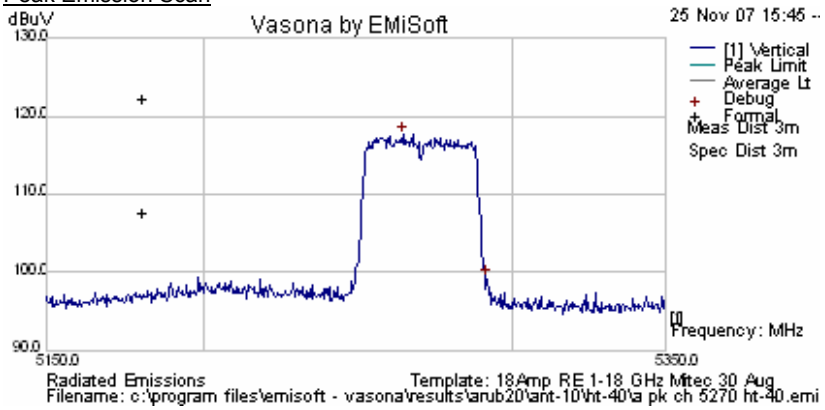
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5270	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

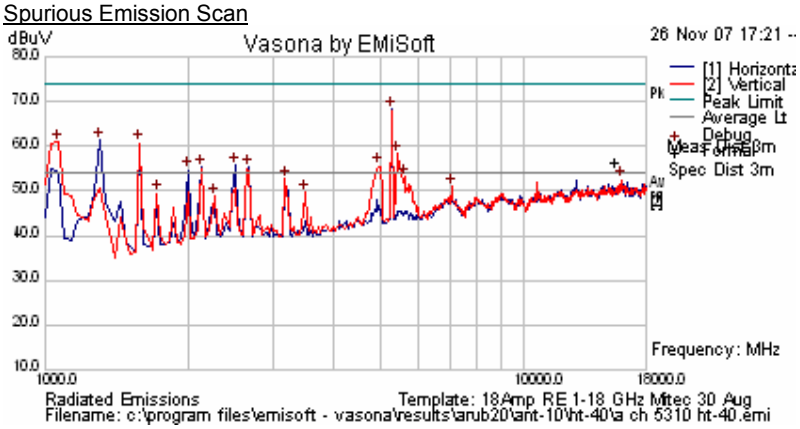


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5264.228	72.32	10.62	34.72	117.65	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental

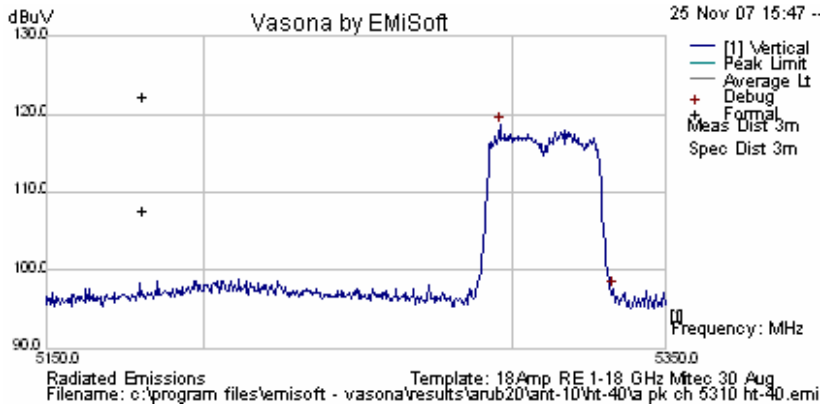
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5310	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

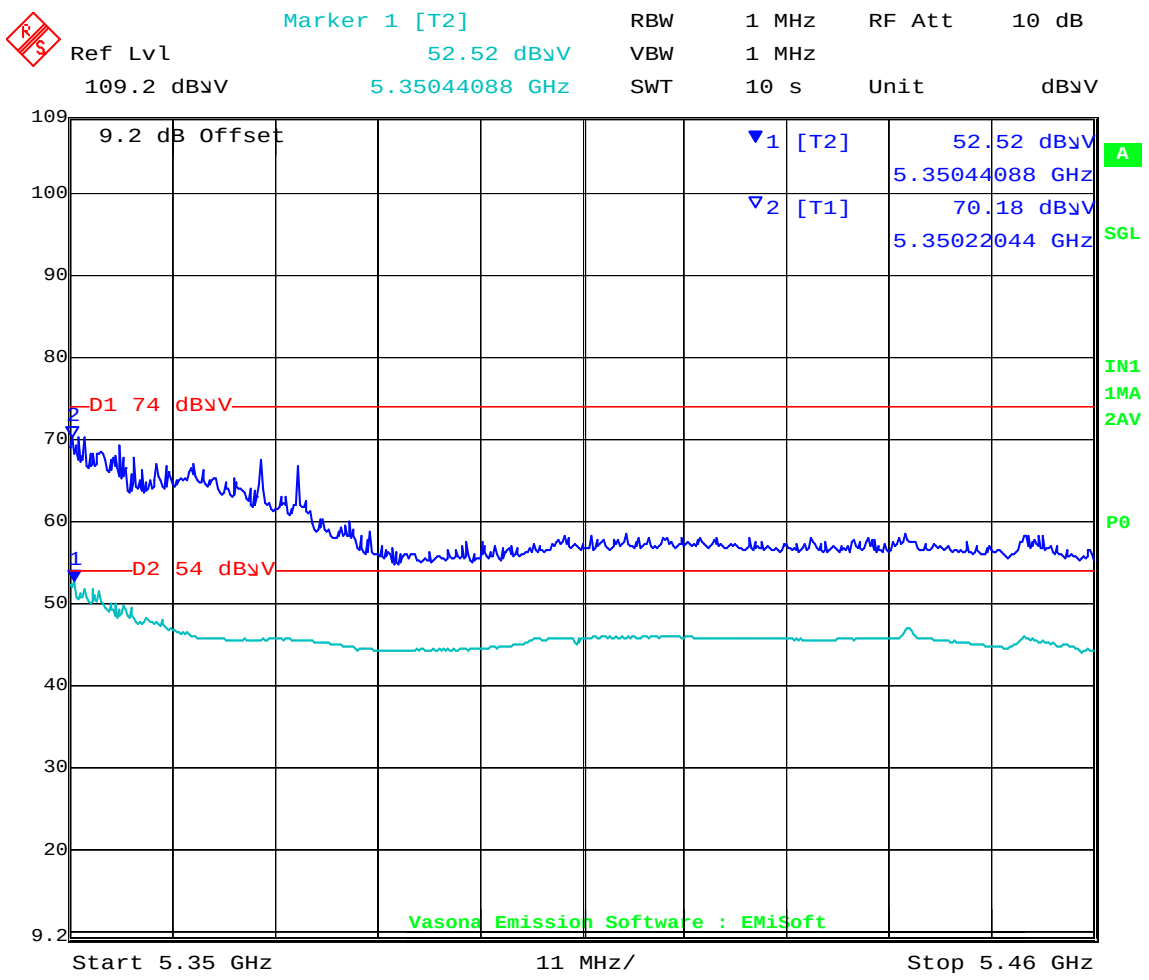
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5295.892	73.2	10.62	34.74	118.56	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5350.000	ART power Setting = 11.5				Peak Max	V			74	-3.82	Pass	Band-edge
5350.000					Average Max	V			54	-1.48	Pass	Band-edge



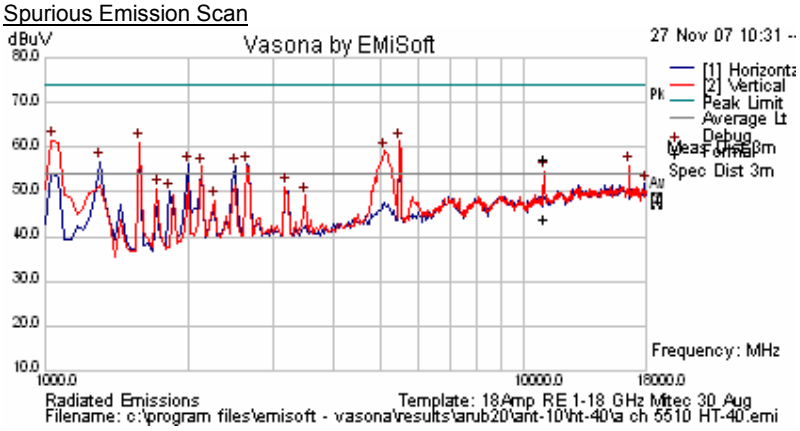
HT- 40 Band-edge @ 5350 MHz with ANT-10

AP124: 5470-5725 MHz ANT-10 (6dBi) HT-40 Data Rates

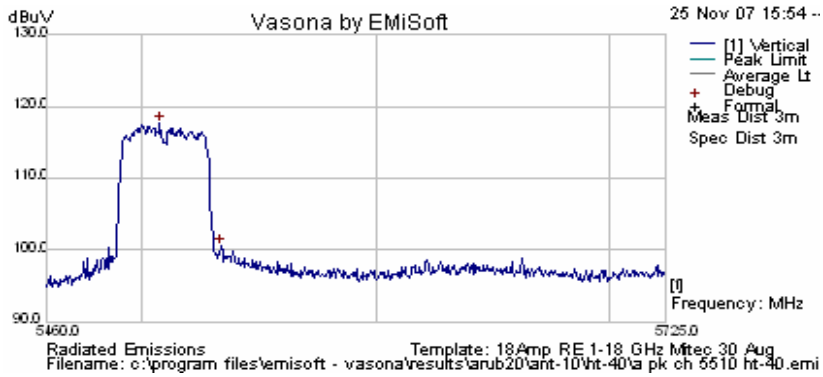
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5510	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

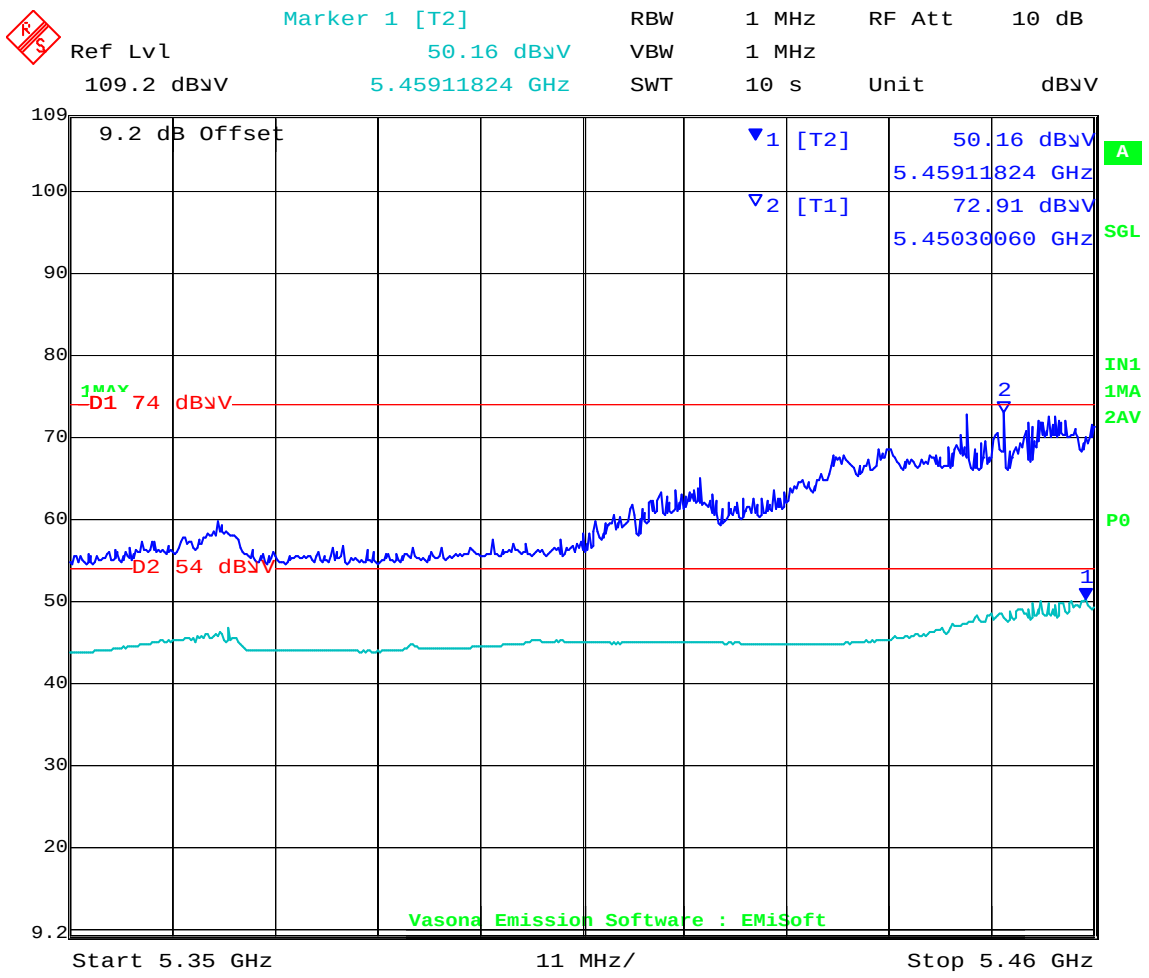
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5507.796	72.05	10.62	34.91	117.58	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5460.000	ART power Setting = 13.0				Peak Max	V			74	-1.09	Pass	Band-edge
5460.000					Average Max	V			54	-3.84	pass	Band-edge
11027.94	49.84	6.96	-1.6	55.19	Peak Max	V	104	45	74	-18.81	Pass	
11027.94	36.27	6.96	-1.6	41.63	Average Max	V	104	45	54	-12.37	Pass	
16535.07	48.12	8.8	-0.95	55.97	Peak [Scan]	H	100	0	68.23	-12.26	Pass	

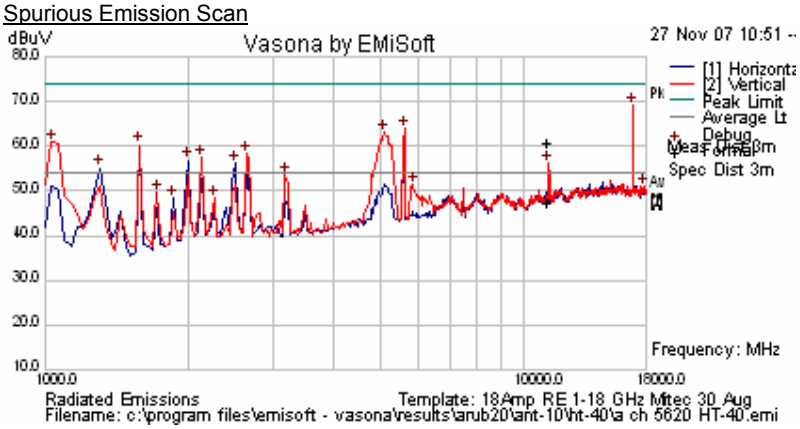


HT- 40 Band-edge @ 5460 MHz with ANT-10

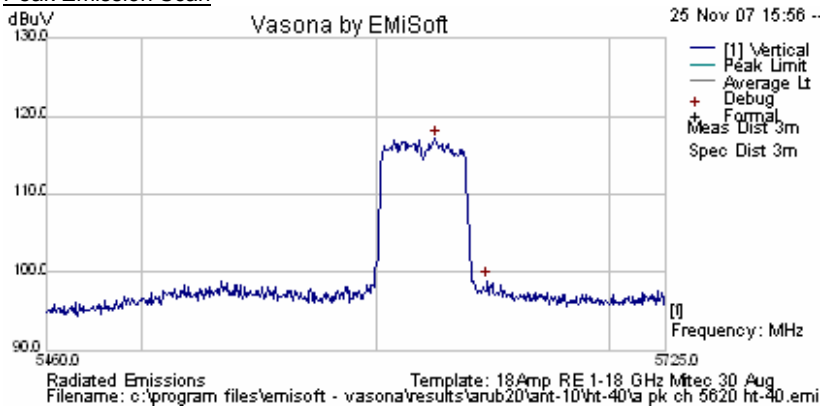
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5620	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

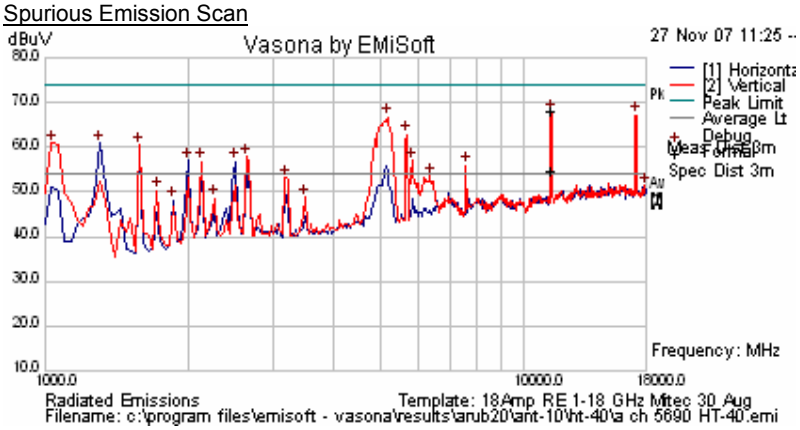


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5625.16	71.53	10.69	35	117.22	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11240.84	53.83	6.88	-1.83	58.89	Peak Max	V	102	56	74	-15.11	Pass	
11240.84	40.35	6.88	-1.83	45.41	Average Max	V	102	56	54	-8.59	Pass	
16875.75	60.3	7.16	-0.97	66.49	Peak [Scan]	H	100	0	68.23	-1.74	Pass	

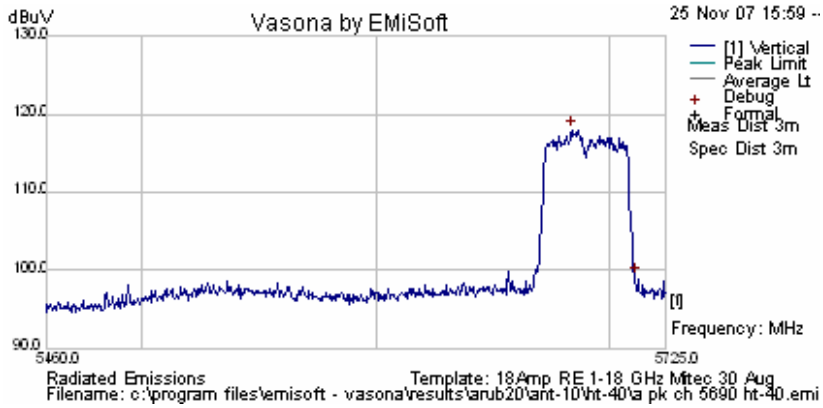
ARUB20 AP124 - ANT-10 (6dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5690	ART 16*	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band
*Reduction in output power required to bring into compliance

Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5684.108	72.24	10.72	35.05	118.01	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11387.86	60.88	6.83	-1.75	65.96	Peak Max	V	122	35	74	-8.04	Pass	
11387.86	47.78	6.83	-1.75	52.86	Average Max	V	122	35	54	-1.14	Pass	
17114.23	59.47	6.37	-0.74	65.1	Peak [Scan]	H	100	0	68.23	-3.13	Pass	

ARUB20 AP-125 (ANT-12)
ART Settings V Aggregate Measured Power

The following matrix identifies the ART power setting V's each output chain. The aggregate power was also measured for all three chains.

As a result of either spurious emissions (harmonic) or band-edge issues the power was reduced to bring the unit into compliance.

Configuration	ART Power Setting	Tx 1 Measured Pwr (dBm)	Tx 2 Measured Pwr (dBm)	Tx 3 Measured Pwr (dBm)	Aggregate Measured Pwr (dBm)
Legacy a (5150 | 5180 MHz)BE	13	10.93	10.82	11.52	16.40
Legacy a (5350 | 5320 MHz)BE	14	11.57	12.00	11.18	17.02
Legacy a (5460 | 5150 | 5745 MHz)BE	13	10.21	9.96	10.89	15.91
Legacy a (5460 | 5500 MHz)BE	14	12.16	11.86	12.06	17.73
HT-20 (5150 | 5180 MHz)BE	13	10.83	11.72	11.47	15.51
HT-20 (5350 | 5320 MHz)BE	14	11.62	11.77	11.10	16.89
HT-20 (5460 | 5150 | 5745 MHz)BE	12.5	9.83	9.13	10.37	15.38
HT-20 (5460 | 5500 MHz)BE	14	12.09	11.92	11.92	17.60
HT-40 (5150 | 5190 MHz)BE	7	4.55	4.66	5.96	10.2
HT-40 (5350 | 5310 MHz)BE	10	7.42	7.90	7.32	12.96
HT-40 (5150 | 5190 | 5755 MHz)BE	10	7.06	6.53	7.73	12.70
HT-40 (5460 | 5510 MHz)BE	11	8.80	9.07	7.80	14.14

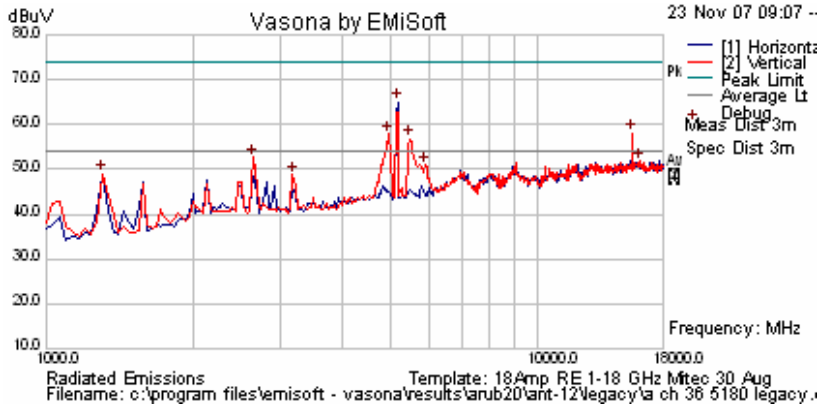
Note BE = Band-edge, SE – Spurious emissions

AP124: 5150-5250GHz ANT-12 (14dBi) Legacy Data Rates

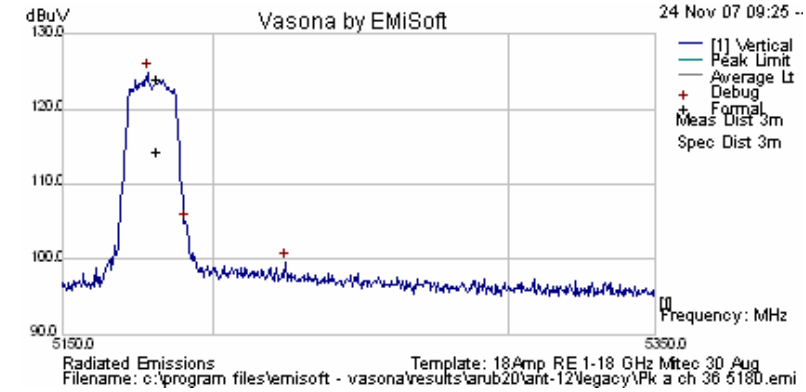
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
36	5180	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

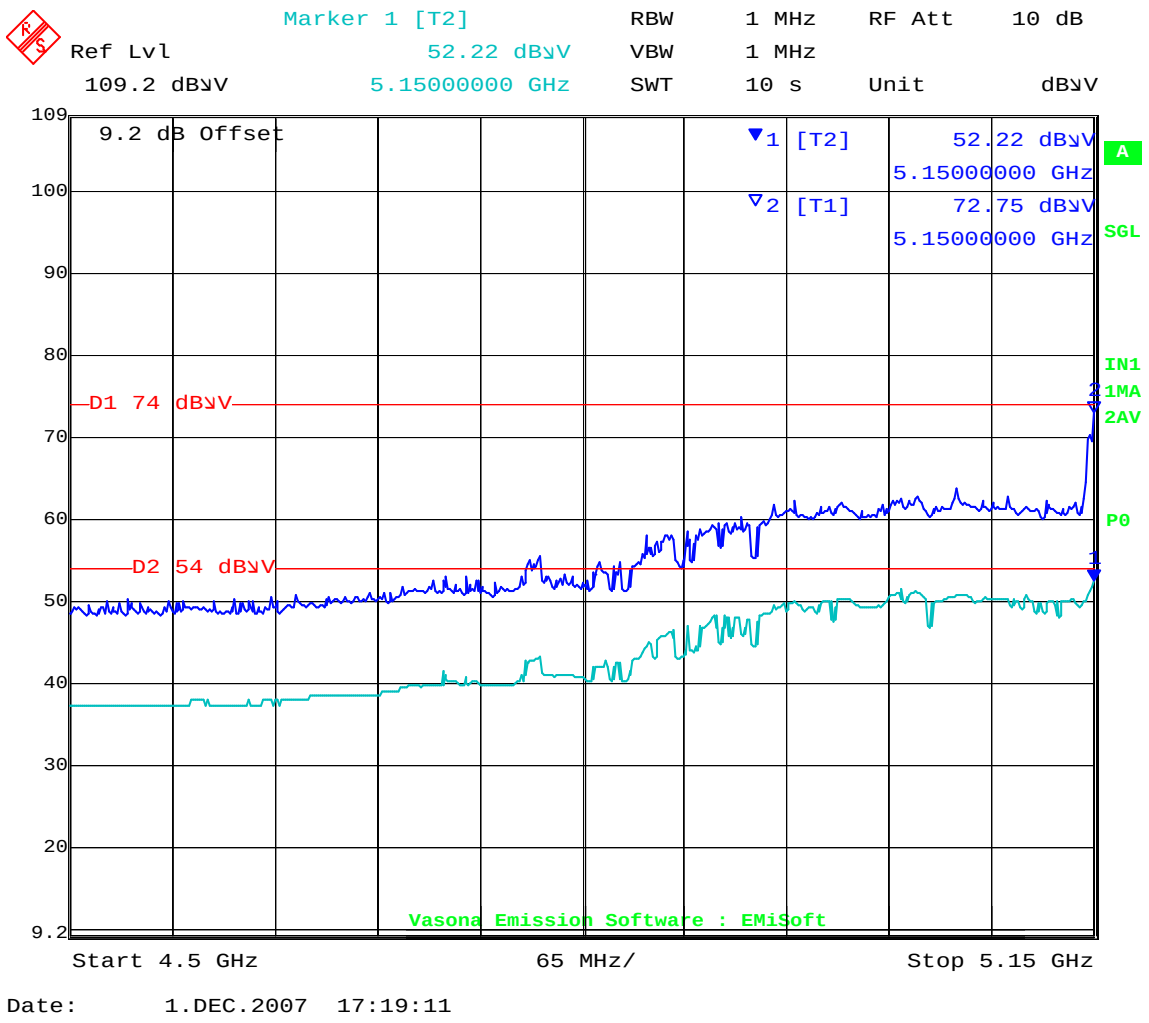
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5178.457	79.66	10.62	34.65	124.93	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5150.000	ART Power Setting = 13.0				Peak Max	V			74	-1.25	Pass	Band-edge
5150.000					Average Max	V			54	-1.78	Pass	Band-edge
15542.021	57.7	6.97	-1.55	63.11	Peak Max	V	125	59	74	-10.89	Pass	
15542.021	66.19	2.24	-15.63	52.79	Average Max	V	102	340	54	-21.21	Pass	
1317.765	66.19	2.24	-15.63	52.79	Peak Max	V	102	340	74	-21.21	Pass	
1317.765	35.92	2.24	-15.63	22.52	Average Max	H	100	27	54	-31.48	Pass	
2635.271	60.91	3.11	-11.37	52.65	Peak [Scan]	V	100	0	68.23	-15.58	Pass	
16092.184	43.77	8.98	-0.93	51.83	Peak [Scan]	V	100	0	68.23	-16.40	Pass	

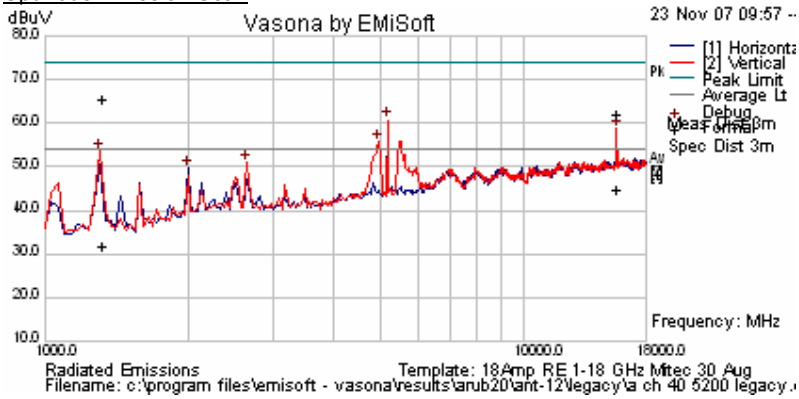


802.11a Legacy Band-edge @ 5150 MHz with ANT-12

ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
40	5200	ART 17	99%	a 6 Legacy	Yes

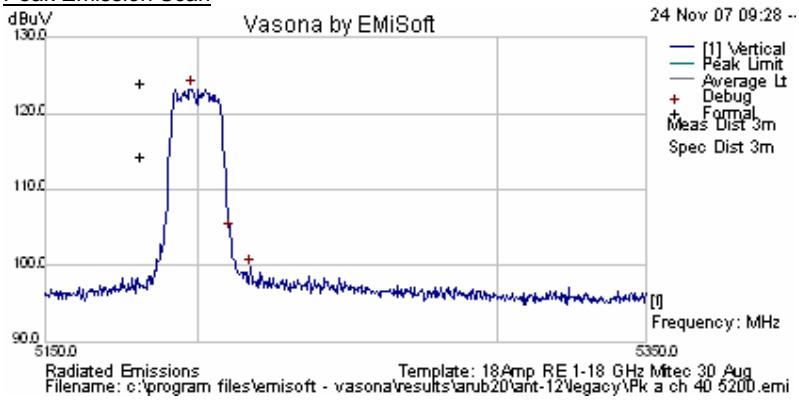
Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Spurious Emission Scan

Peak Emission Scan

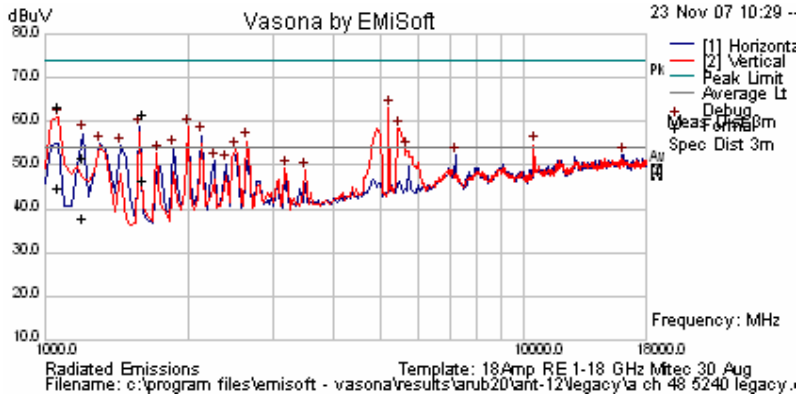


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5198.096	77.94	10.62	34.66	123.22	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
15598.476	52.95	8.37	-1.17	60.14	Peak Max	V	110	298	74	-13.86	Pass	
15598.476	35.43	8.37	-1.17	42.63	Average Max	V	110	298	54	-11.37	Pass	
1329.859	76.95	2.25	-15.58	63.61	Peak Max	V	101	284	74	-10.39	Pass	
1329.859	42.96	2.25	-15.58	29.62	Average Max	V	101	284	54	-24.38	Pass	
2635.271	59.25	3.11	-11.37	50.99	Peak [Scan]	V	100	0	68.23	-17.24	Pass	
1987.976	58.24	2.74	-11.26	49.72	Peak [Scan]	H	100	0	68.23	-18.51	Pass	

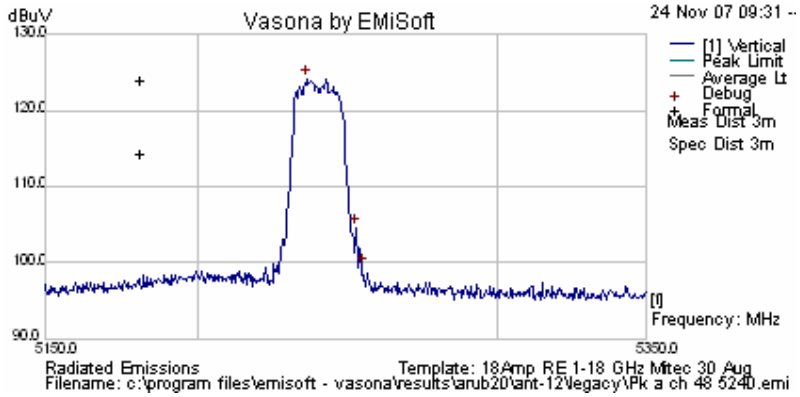
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
48	5240	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan



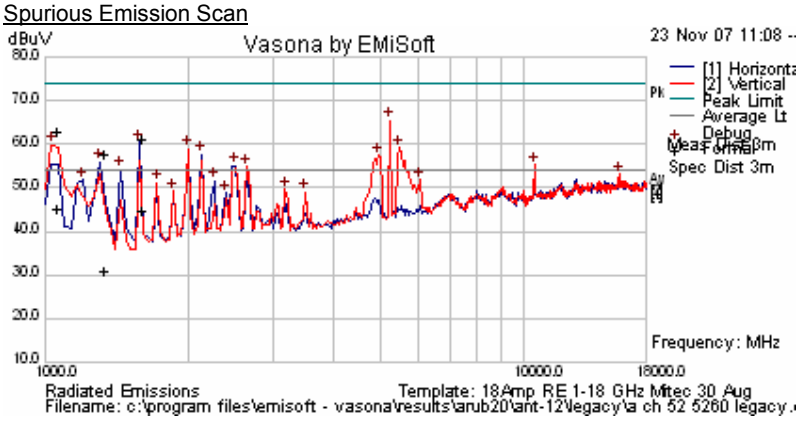
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5236.172	78.85	10.62	34.69	124.16	Peak [Scan]	V	100	0	N/A	N/A	Fail	Fundamental
1070.561	75.6	2.02	-16.09	61.53	Peak Max	V	100	18	74	-12.47	Pass	
1070.561	56.62	2.02	-16.09	42.55	Average Max	V	100	18	54	-11.45	Pass	
1603.206	71.38	2.46	-14.28	59.55	Peak Max	V	108	180	74	-14.45	Pass	
1603.206	56.36	2.46	-14.28	44.54	Average Max	H	129	42	54	-9.46	Pass	
1203.046	63.48	2.14	-15.85	49.77	Peak Max	V	100	40	74	-24.23	Pass	
1203.046	49.52	2.14	-15.85	35.81	Average Max	H	100	316	54	-18.19	Pass	
1987.976	67.35	2.74	-11.26	58.84	Peak [Scan]	H	100	0	68.23	-9.39	Pass	
5462.926	62.22	4.62	-8.4	58.44	Peak [Scan]	V	100	0	68.23	-9.79	Pass	
2124.248	65.01	2.82	-11.03	56.79	Peak [Scan]	H	100	0	68.23	-11.44	Pass	

AP124: 5250-5350GHz ANT-12 (14dBi) Legacy Data Rates

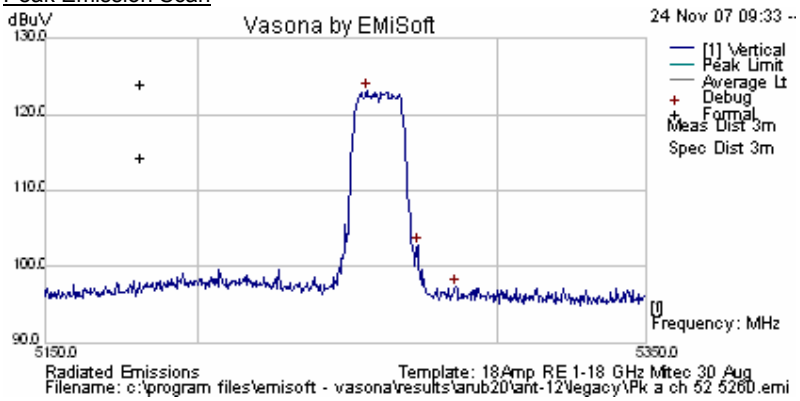
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
52	5260	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

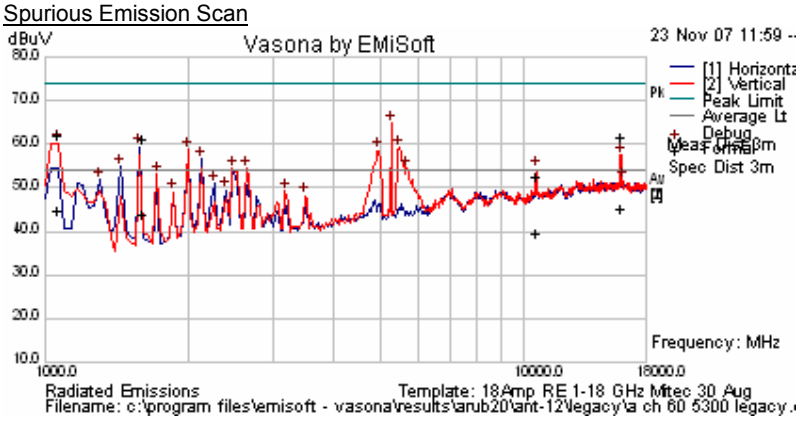


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5256.212	77.71	10.62	34.71	123.04	Peak [Scan]	V	100	0	54	69.04	Fail	Fundamental
1604.569	71.11	2.46	-14.27	59.3	Peak Max	V	108	181	74	-14.7	Pass	
1069.739	74.88	2.02	-16.09	60.81	Peak Max	V	100	23	74	-13.19	Pass	
1335.07	69.08	2.25	-15.56	55.77	Peak Max	V	101	321	74	-18.23	Pass	
1604.569	54.49	2.46	-14.27	42.68	Average Max	H	100	41	54	-11.32	Pass	
1069.739	57.4	2.02	-16.09	43.33	Average Max	V	100	23	54	-10.67	Pass	
1335.07	42.1	2.25	-15.56	28.79	Average Max	H	150	261	54	-25.21	Pass	
1987.976	67.56	2.74	-11.26	59.04	Peak [Scan]	V	100	0	68.23	-9.19	Pass	
2124.248	65.89	2.82	-11.03	57.67	Peak [Scan]	H	100	0	68.23	-10.56	Pass	
10505.01	49.58	6.78	-0.92	55.45	Peak [Scan]	V	100	0	68.23	-12.78	Pass	

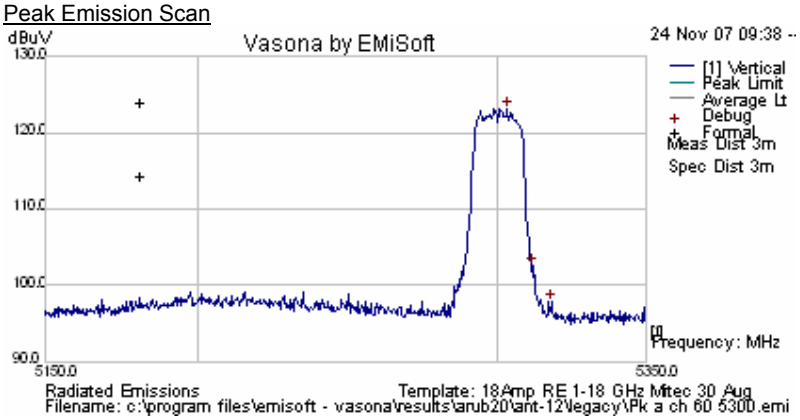
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
60	5300	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

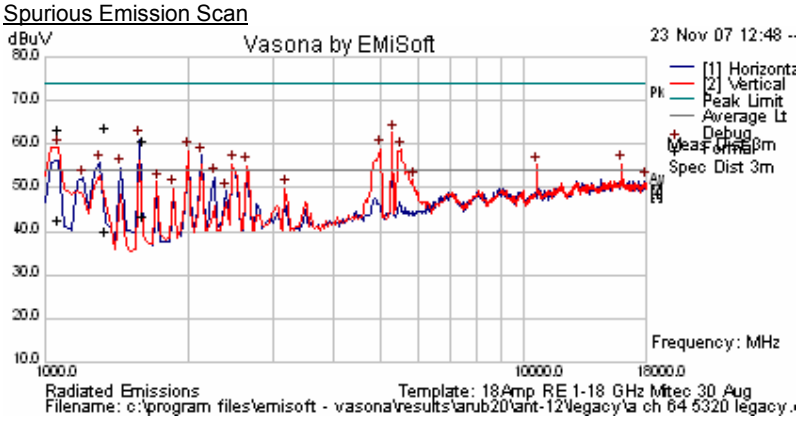


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5303.106	77.77	10.62	34.75	123.14	Peak [Scan]	V	100	0	54	69.14	Fail	Fundamental
1064.509	74.16	2.01	-16.08	60.09	Peak Max	V	105	129	74	-13.91	Pass	
1603.928	71.11	2.46	-14.28	59.3	Peak Max	V	105	181	74	-14.7	Pass	
15901.243	51.69	8.86	-1.02	59.53	Peak Max	V	126	338	74	-14.47	Pass	
10602.214	44.87	6.82	-1.08	50.6	Peak Max	V	140	40	74	-23.4	Pass	
1064.509	56.97	2.01	-16.08	42.9	Average Max	V	105	129	54	-11.1	Pass	
1603.928	53.8	2.46	-14.28	41.98	Average Max	V	105	181	54	-12.02	Pass	
15901.243	35.25	8.86	-1.02	43.09	Average Max	V	126	338	54	-10.91	Pass	
10602.214	31.79	6.82	-1.08	37.53	Average Max	V	140	40	54	-16.47	Pass	
1987.976	67.35	2.74	-11.26	58.83	Peak [Scan]	H	100	0	68.23	-9.40	Pass	
2124.248	64.94	2.82	-11.03	56.73	Peak [Scan]	H	100	0	68.23	-11.50	Pass	

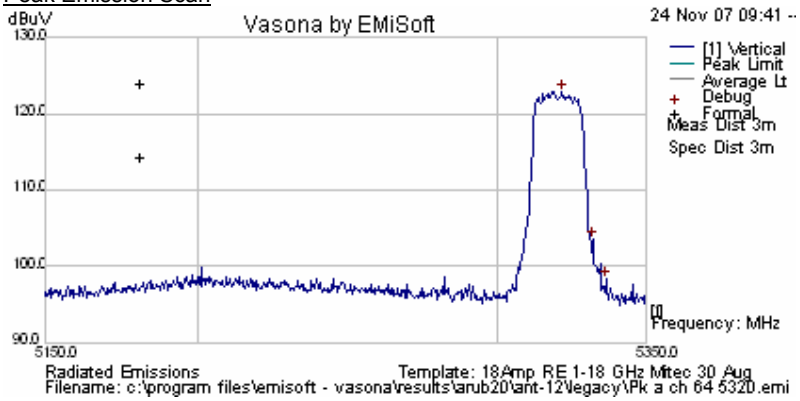
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
64	5320	ART 17	99%	a 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

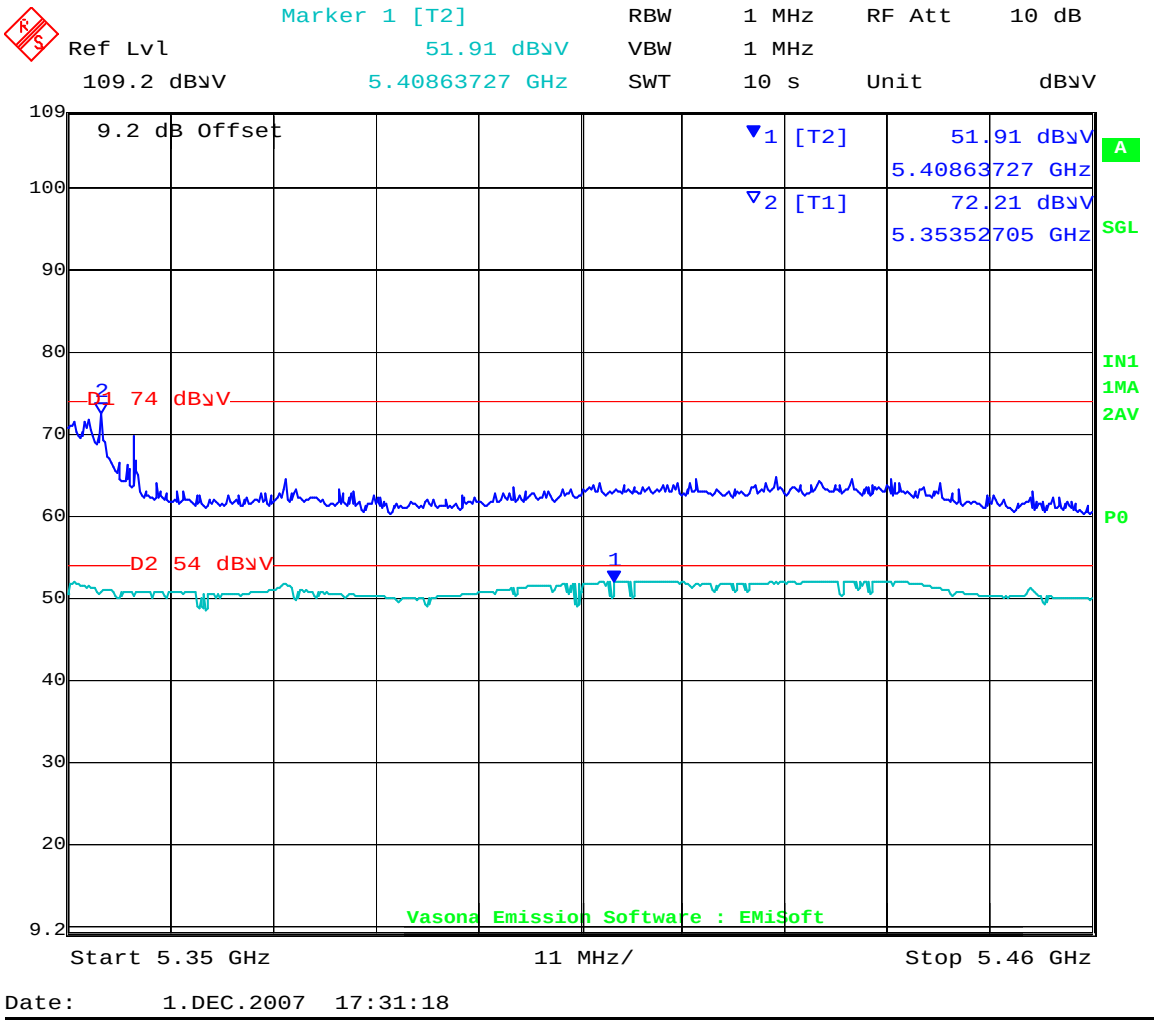
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5321.543	77.48	10.62	34.76	122.86	Peak [Scan]	V	100	0	54	68.86	Fail	Fundamental
5350	ART power Setting = 14.0				Peak Max	V			74	-1.79	Pass	Band-edge
5350					Average Max	V			54	-2.09	Pass	Band-edge
1605.932	70.57	2.46	-14.26	58.77	Peak Max	V	104	184	74	-15.23	Pass	
1070.841	75.36	2.02	-16.09	61.29	Peak Max	V	109	48	74	-12.71	Pass	
1333.066	75	2.25	-15.57	61.68	Peak Max	V	116	277	74	-12.32	Pass	
1605.932	53.31	2.46	-14.26	41.51	Average Max	H	98	40	54	-12.49	Pass	
1070.841	54.61	2.02	-16.09	40.54	Average Max	V	109	48	54	-13.46	Pass	
1333.066	51.18	2.25	-15.57	37.86	Average Max	H	109	118	54	-16.14	Pass	
5531.062	62.44	4.64	-8.32	58.76	Peak [Scan]	H	100	0	68.23	-9.47	Pass	
1987.976	67.13	2.74	-11.26	58.61	Peak [Scan]	H	100	0	68.23	-9.62	Pass	
2124.248	65.71	2.82	-11.03	57.5	Peak [Scan]	H	100	0	68.23	-10.73	Pass	



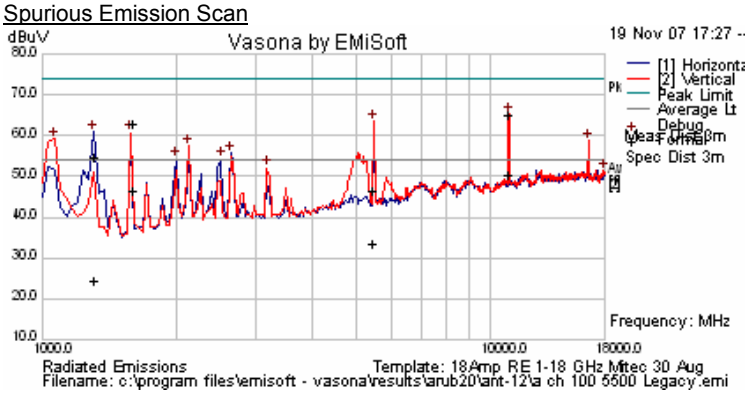
802.11a Legacy Band-edge @ 5350 MHz with ANT-12

AP124 - ANT-12 (14dBi) Legacy Data Rates

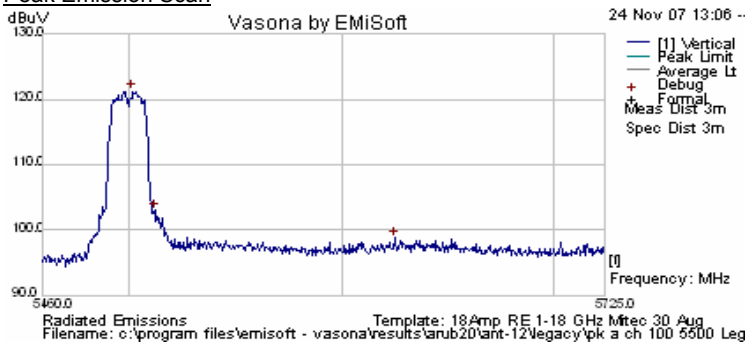
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
100	5500	ART 17	99%	A 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

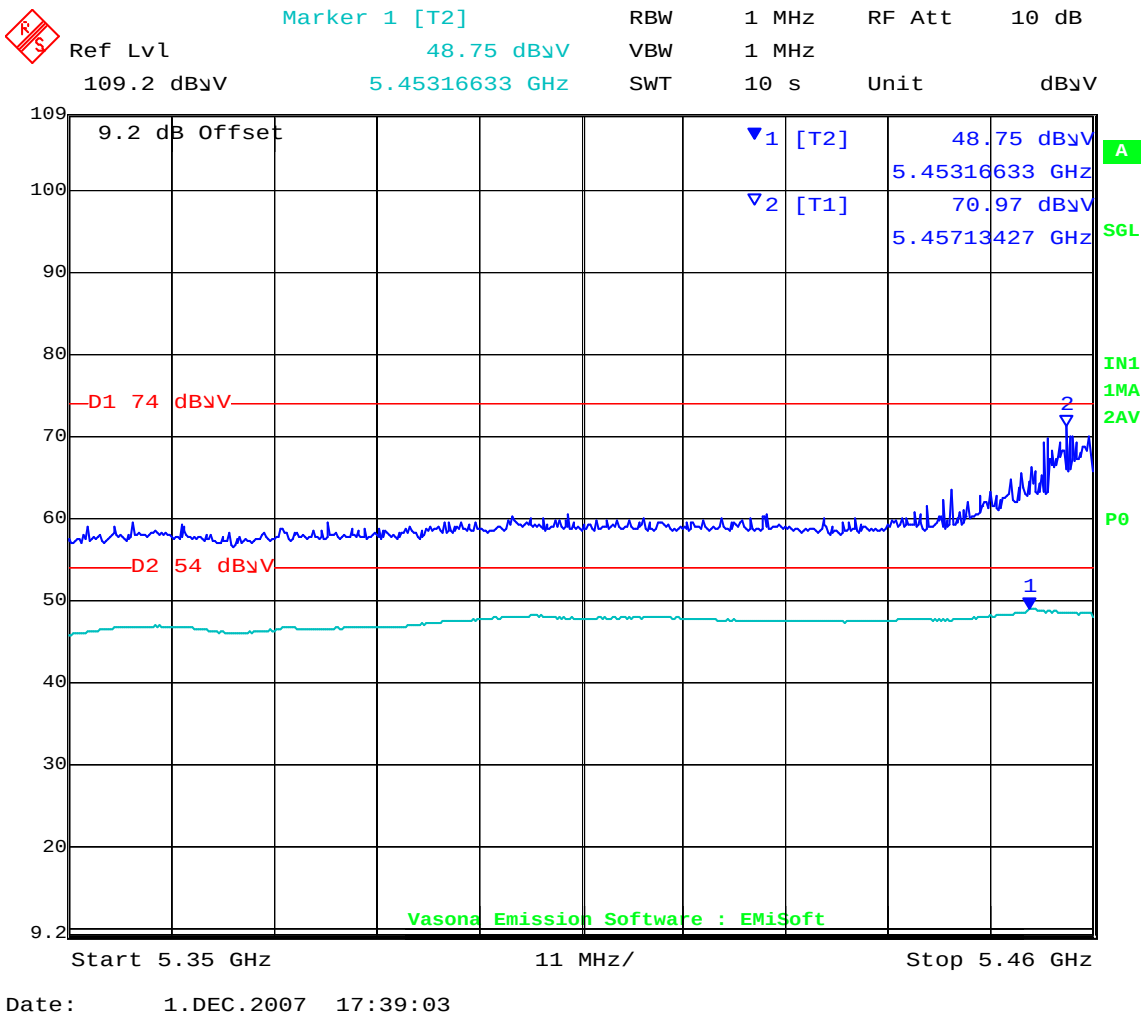
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5501.954	75.71	10.62	34.9	121.24	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5460.000	ART power Setting = 14.0				Peak Max	V			74	-3.03	Pass	Band-edge
5460.000					Average Max	V			54	-5.25	Pass	Band-edge
11005.21	57.7	6.97	-1.55	63.11	Peak Max	V	125	59	74	-10.89	Pass	
5460	48.25	4.62	-8.4	44.47	Peak Max	V	100	192	74	-29.53	Pass	
1317.765	66.19	2.24	-15.63	52.79	Peak Max	V	102	340	74	-21.21	Pass	
1601.162	72.67	2.46	-14.3	60.83	Peak Max	V	100	224	74	-13.17	Pass	
11005.21	42.92	6.97	-1.55	48.33	Average Max	V	125	59	54	-5.67	Pass	
5460	35.28	4.62	-8.4	31.5	Average Max	H	124	111	54	-22.5	Pass	
1317.765	35.92	2.24	-15.63	22.52	Average Max	H	100	27	54	-31.48	Pass	
1601.162	56.35	2.46	-14.3	44.5	Average Max	V	100	224	54	-9.5	Pass	
16535.07	50.87	8.8	-0.95	58.72	Peak [Scan]	H	100	0	68.23	-9.51	Pass	
2124.248	65.77	2.82	-11.03	57.56	Peak [Scan]	H	100	0	68.23	-10.67	Pass	
2635.271	64.02	3.11	-11.37	55.76	Peak [Scan]	H	100	0	68.23	-12.47	Pass	

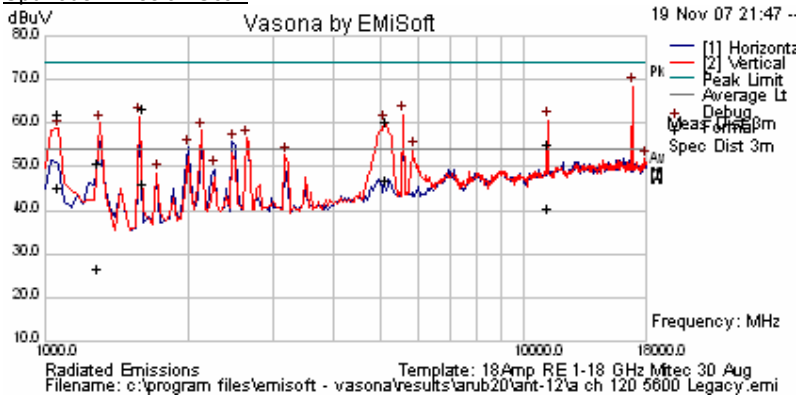


802.11a Legacy Band-edge @ 5460 MHz with ANT-12

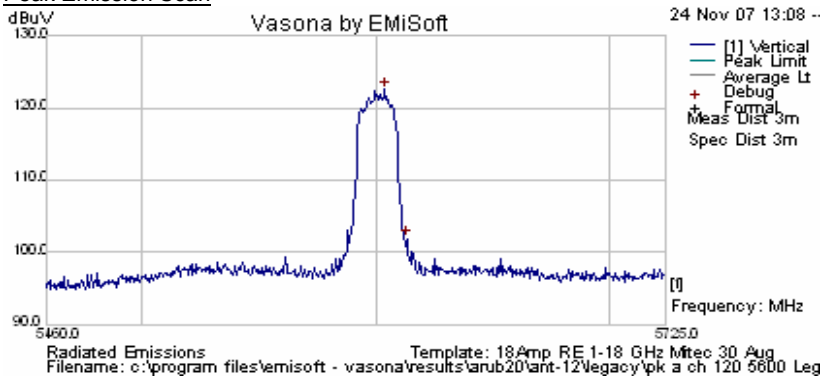
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
120	5600	ART 17	99%	A 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

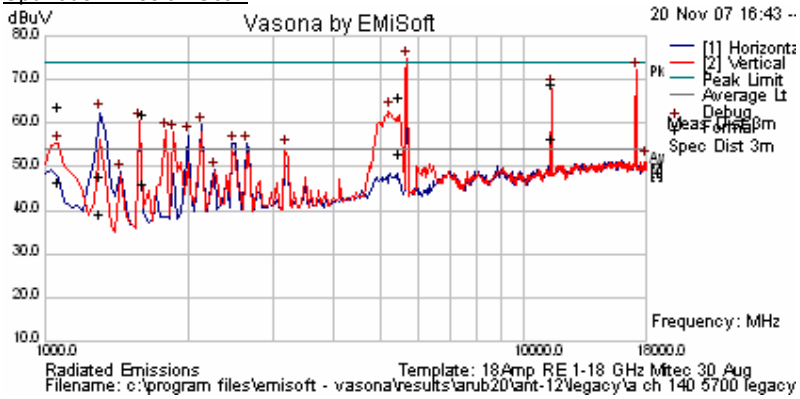


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5603.387	76.9	10.68	34.99	122.56	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
1603.607	73.06	2.46	-14.28	61.24	Peak Max	V	100	224	74	-12.76	Pass	
11186.373	47.87	6.9	-1.87	52.9	Peak Max	V	143	267	74	-21.1	Pass	
1295.416	62.24	2.22	-15.7	48.76	Peak Max	V	120	159	74	-25.24	Pass	
5139.879	63.09	4.62	-9.3	58.41	Peak Max	V	109	0	74	-15.59	Pass	
1068.211	74.28	2.02	-16.09	60.21	Peak Max	V	100	100	74	-13.79	Pass	
1603.607	55.82	2.46	-14.28	44	Average Max	V	100	224	54	-10	Pass	
11186.373	33.46	6.9	-1.87	38.49	Average Max	V	143	267	54	-15.51	Pass	
1295.416	38.07	2.22	-15.7	24.59	Average Max	H	151	33	54	-29.41	Pass	
5139.879	49.43	4.62	-9.3	44.75	Average Max	V	109	0	54	-9.25	Pass	
1068.211	57.18	2.02	-16.09	43.11	Average Max	V	100	100	54	-10.89	Pass	
16807.615	59.57	7.2	-0.99	65.78	Peak [Scan]	H	100	0	68.23	-2.45	Pass	

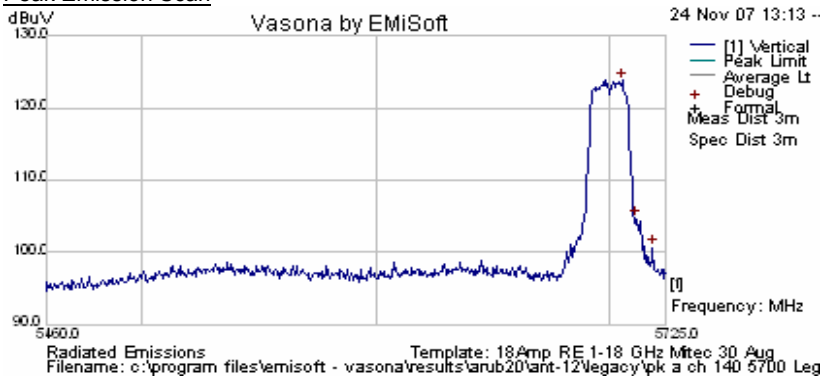
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MBit/s)**	**Compliant**
140	5700	ART 17	99%	A 6 Legacy	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan



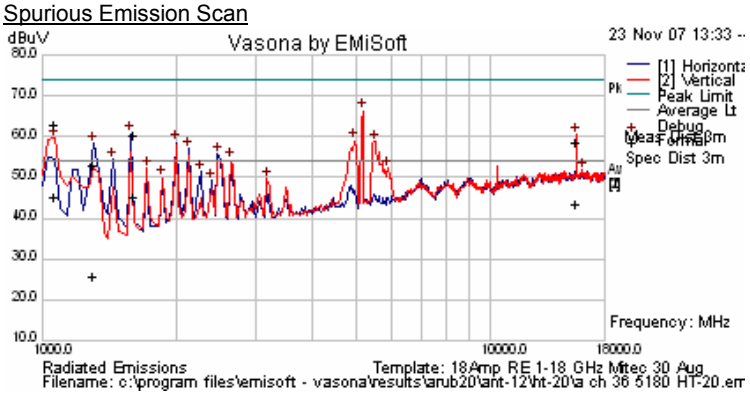
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5705.882	77.98	10.73	35.07	123.79	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11403.858	61.96	6.82	-1.73	67.06	Peak Max	V	118	247	74	-6.94	Pass	
5460	67.81	4.62	-8.4	64.03	Peak Max	V	101	182	74	-9.97	Pass	
1300.02	59.27	2.22	-15.69	45.8	Peak Max	V	141	269	74	-28.2	Pass	
1603.126	72.04	2.46	-14.28	60.21	Peak Max	V	104	0	74	-13.79	Pass	
1069.499	76.04	2.02	-16.09	61.97	Peak Max	V	104	219	74	-12.03	Pass	
11403.858	49.21	6.82	-1.73	53.7	Average Max	V	118	247	54	-0.3	Pass	
5460	54.53	4.62	-8.4	50.75	Average Max	V	101	182	54	-3.25	Pass	
1300.02	50.74	2.22	-15.69	37.27	Average Max	H	123	256	54	-16.73	Pass	
1603.126	55.87	2.46	-14.28	44.05	Average Max	H	141	160	54	-9.95	Pass	
1069.499	58.39	2.02	-16.09	44.32	Average Max	V	104	219	54	-9.68	Pass	
17114.228	62.14	6.37	-0.74	67.77	Peak [Scan]	H	100	0	68.23	-0.46	Pass	

AP124: 5150-5250GHz ANT-12 (14dBi) HT-20 Data Rates

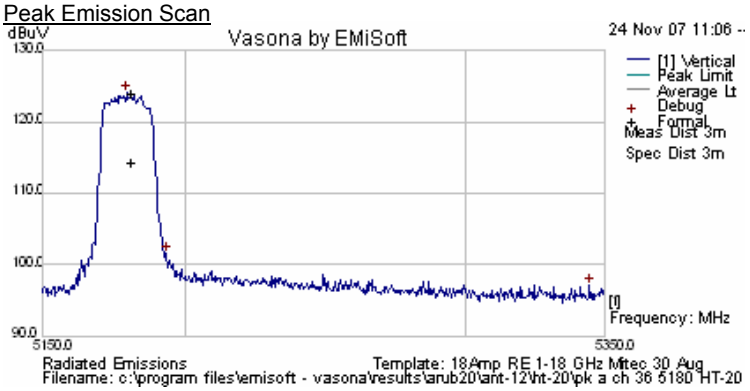
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
36	5180	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

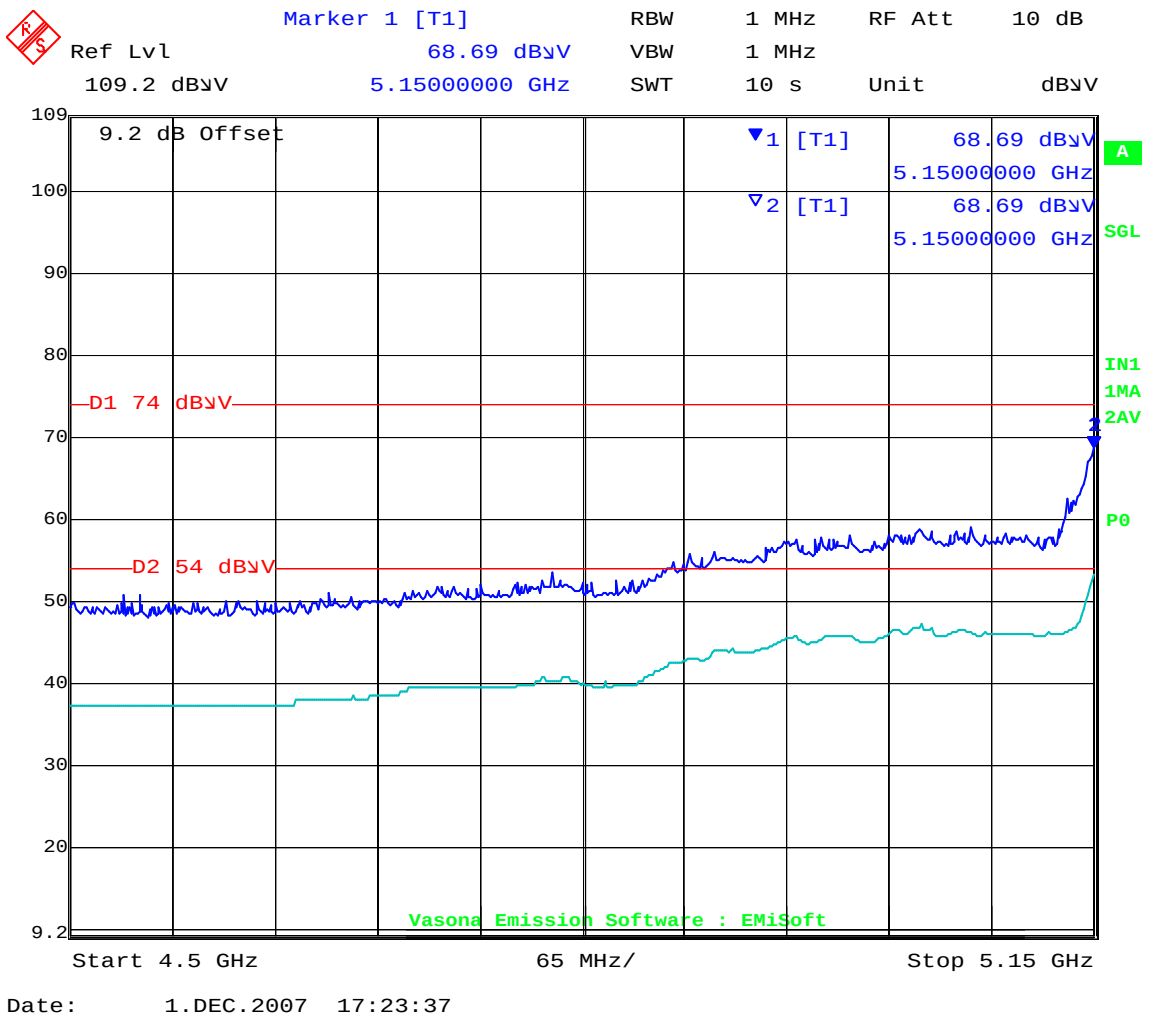
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5179.659	78.75	10.62	34.65	124.01	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5150.000	ART Power Setting = 13.0				Peak Max	V			74	-5.31	Pass	Band-edge
5150.000					Average Max	V			54	-1.00	Pass	Band-edge
1604.569	70.29	2.46	-14.27	58.48	Peak Max	V	111	182	74	-15.52	Pass	
15543.41	49.31	8.28	-1.04	56.55	Peak Max	V	120	347	74	-17.45	Pass	
1069.92	75	2.02	-16.09	60.93	Peak Max	V	104	25	74	-13.07	Pass	
1304.128	64.26	2.23	-15.68	50.8	Peak Max	V	122	289	74	-23.2	Pass	
1604.569	54.98	2.46	-14.27	43.17	Average Max	H	98	40	54	-10.83	Pass	
15543.41	34.33	8.28	-1.04	41.57	Average Max	V	120	347	54	-12.43	Pass	
1069.92	57.3	2.02	-16.09	43.23	Average Max	V	104	25	54	-10.77	Pass	
1304.128	37.04	2.23	-15.68	23.59	Average Max	H	113	107	54	-30.41	Pass	
5531.062	62.42	4.64	-8.32	58.74	Peak [Scan]	V	100	0	68.23	-9.49	Pass	
1987.976	67.1	2.74	-11.26	58.58	Peak [Scan]	H	100	0	68.23	-9.65	Pass	

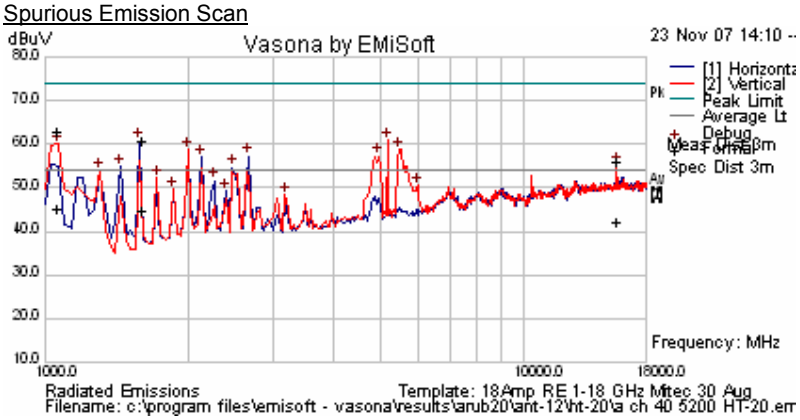


HT-20 Band-edge @ 5150 MHz with ANT-12

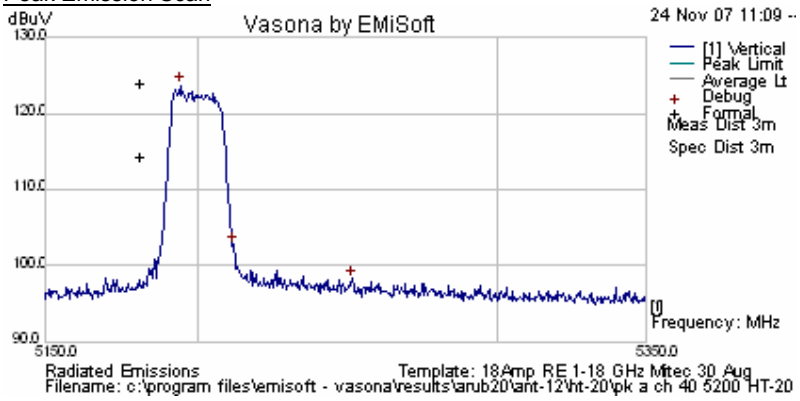
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
40	5200	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

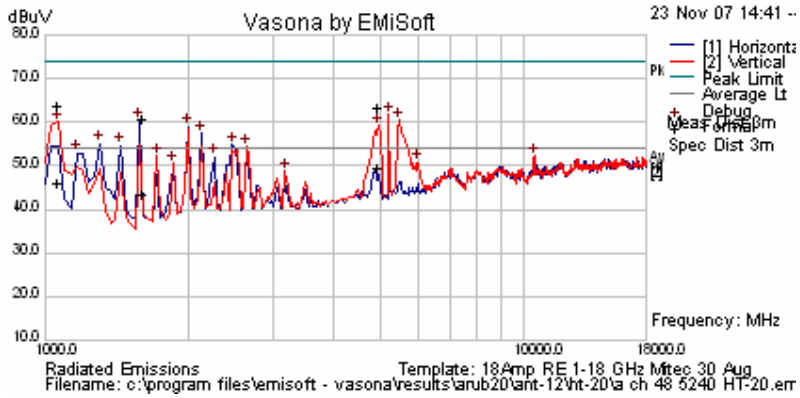


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5194.489	78.42	10.62	34.66	123.70	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
1604.248	70.71	2.46	-14.27	58.89	Peak Max	V	150	183	74	-15.11	Pass	
1070.04	75	2.02	-16.09	60.93	Peak Max	V	104	39	74	-13.07	Pass	
15604.23	46.72	8.38	-1.16	53.94	Peak Max	V	140	294	74	-20.06	Pass	
1604.248	54.67	2.46	-14.27	42.86	Average Max	H	98	42	54	-11.14	Pass	
1070.04	57.26	2.02	-16.09	43.19	Average Max	V	104	39	54	-10.81	Pass	
15604.23	32.88	8.38	-1.16	40.1	Average Max	V	140	294	54	-13.9	Pass	
1987.976	67.31	2.74	-11.26	58.79	Peak [Scan]	V	100	0	68.23	-9.44	Pass	
2669.339	65.53	3.14	-11.36	57.31	Peak [Scan]	H	100	0	68.23	-10.92	Pass	
2124.248	65.33	2.82	-11.03	57.12	Peak [Scan]	H	100	0	68.23	-11.11	Pass	

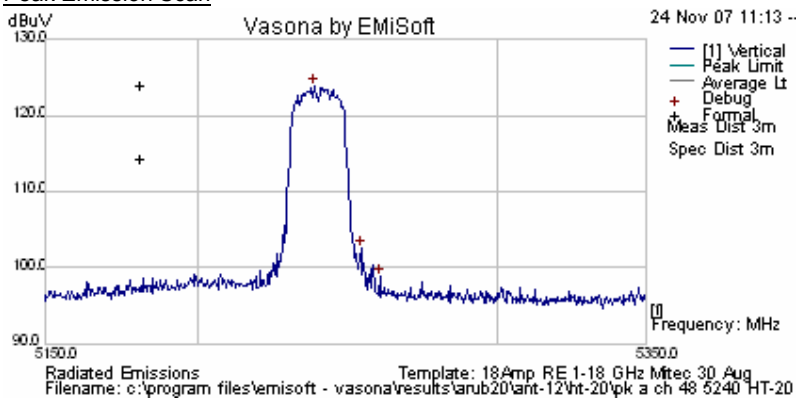
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
48	5240	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan



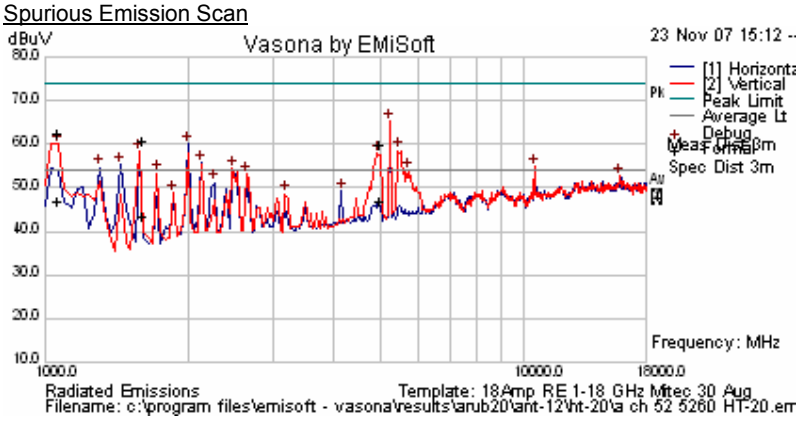
Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5238.577	78.54	10.62	34.7	123.85	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
1605.851	70.71	2.46	-14.26	58.91	Peak Max	V	106	182	74	-15.09	Pass	
1070.401	76.04	2.02	-16.09	61.97	Peak Max	V	105	46	74	-12.03	Pass	
4948.938	65.93	4.58	-9.29	61.21	Peak Max	V	103	130	74	-12.79	Pass	
1605.851	53.26	2.46	-14.26	41.46	Average Max	H	98	40	54	-12.54	Pass	
1070.401	57.9	2.02	-16.09	43.83	Average Max	V	105	46	54	-10.17	Pass	
4948.938	51.98	4.58	-9.29	47.26	Average Max	V	103	130	54	-6.74	Pass	
1987.976	67.56	2.74	-11.26	59.04	Peak [Scan]	H	100	0	68.23	-9.19	Pass	
2124.248	65.78	2.82	-11.03	57.56	Peak [Scan]	H	100	0	68.23	-10.67	Pass	
2464.93	62.99	2.98	-11.17	54.80	Peak [Scan]	H	100	0	68.23	-13.43	Pass	

AP124: 5250-5350GHz ANT-12 (14dBi) HT-20 Data Rates

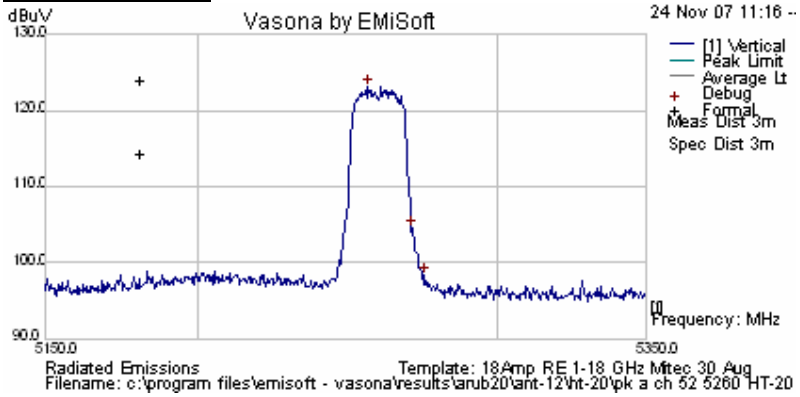
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
52	5260	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

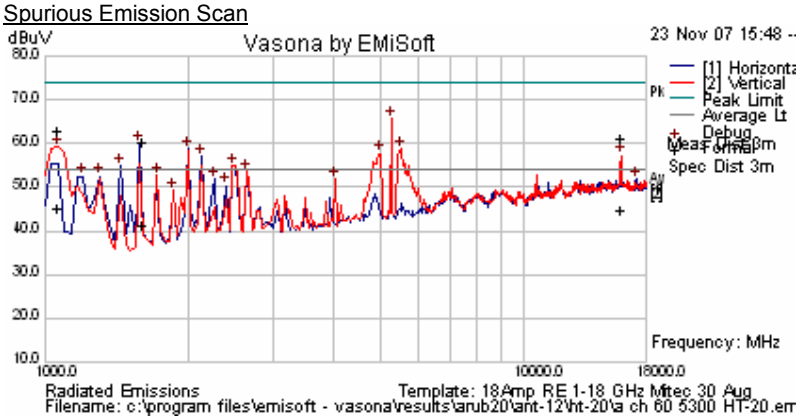


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5256.613	77.78	10.62	34.71	123.11	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
1066.663	74.52	2.02	-16.09	60.45	Peak Max	V	98	15	74	-13.55	Pass	
1606.032	70.71	2.46	-14.26	58.91	Peak Max	V	104	181	74	-15.09	Pass	
5005.531	62.67	4.62	-9.35	57.95	Peak Max	V	98	127	74	-16.05	Pass	
1066.663	58.85	2.02	-16.09	44.78	Average Max	V	98	15	54	-9.22	Pass	
1606.032	53.27	2.46	-14.26	41.47	Average Max	H	98	40	54	-12.53	Pass	
5005.531	49.81	4.62	-9.35	45.08	Average Max	V	98	127	54	-8.92	Pass	
1987.976	68.56	2.74	-11.26	60.04	Peak [Scan]	H	100	0	68.23	-8.19	Pass	
5462.926	62.41	4.62	-8.4	58.63	Peak [Scan]	V	100	0	68.23	-9.60	Pass	
2124.248	64.05	2.82	-11.03	55.83	Peak [Scan]	H	100	0	68.23	-12.40	Pass	

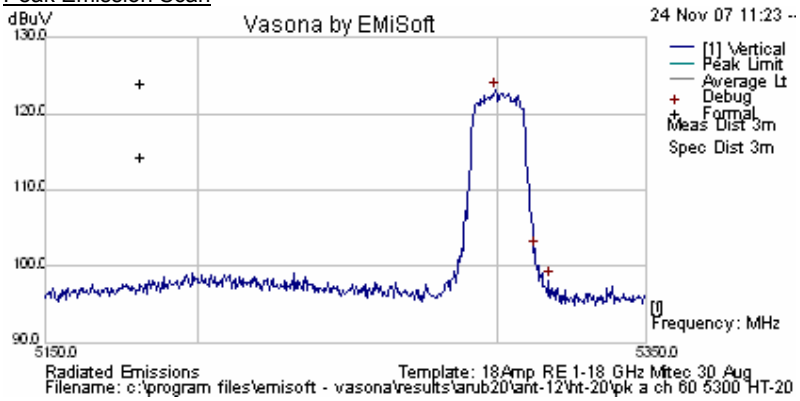
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
60	5300	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

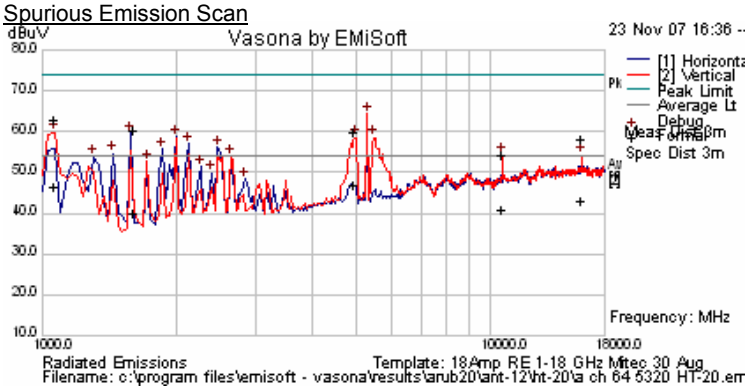


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5299.098	77.63	10.62	34.74	123.00	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
1606.152	70.02	2.46	-14.25	58.22	Peak Max	V	109	183	74	-15.78	Pass	
1070.045	75.11	2.02	-16.09	61.04	Peak Max	V	105	18	74	-12.96	Pass	
15903.447	51.16	8.87	-1.02	59.01	Peak Max	V	106	323	74	-14.99	Pass	
1606.152	51.23	2.46	-14.25	39.44	Average Max	H	98	40	54	-14.56	Pass	
1070.045	57.28	2.02	-16.09	43.21	Average Max	V	105	18	54	-10.79	Pass	
15903.447	34.75	8.87	-1.02	42.60	Average Max	V	106	323	54	-11.4	Pass	
1987.976	67.32	2.74	-11.26	58.8	Peak [Scan]	H	100	0	68.23	-9.43	Pass	
5531.062	62.36	4.64	-8.32	58.68	Peak [Scan]	H	100	0	68.23	-9.55	Pass	
5020.040	62.41	4.62	-9.31	57.72	Peak [Scan]	H	100	0	68.23	-10.51	Pass	

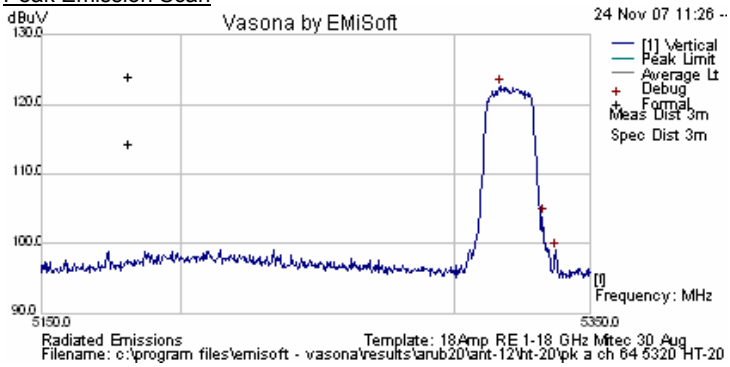
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
64	5320	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

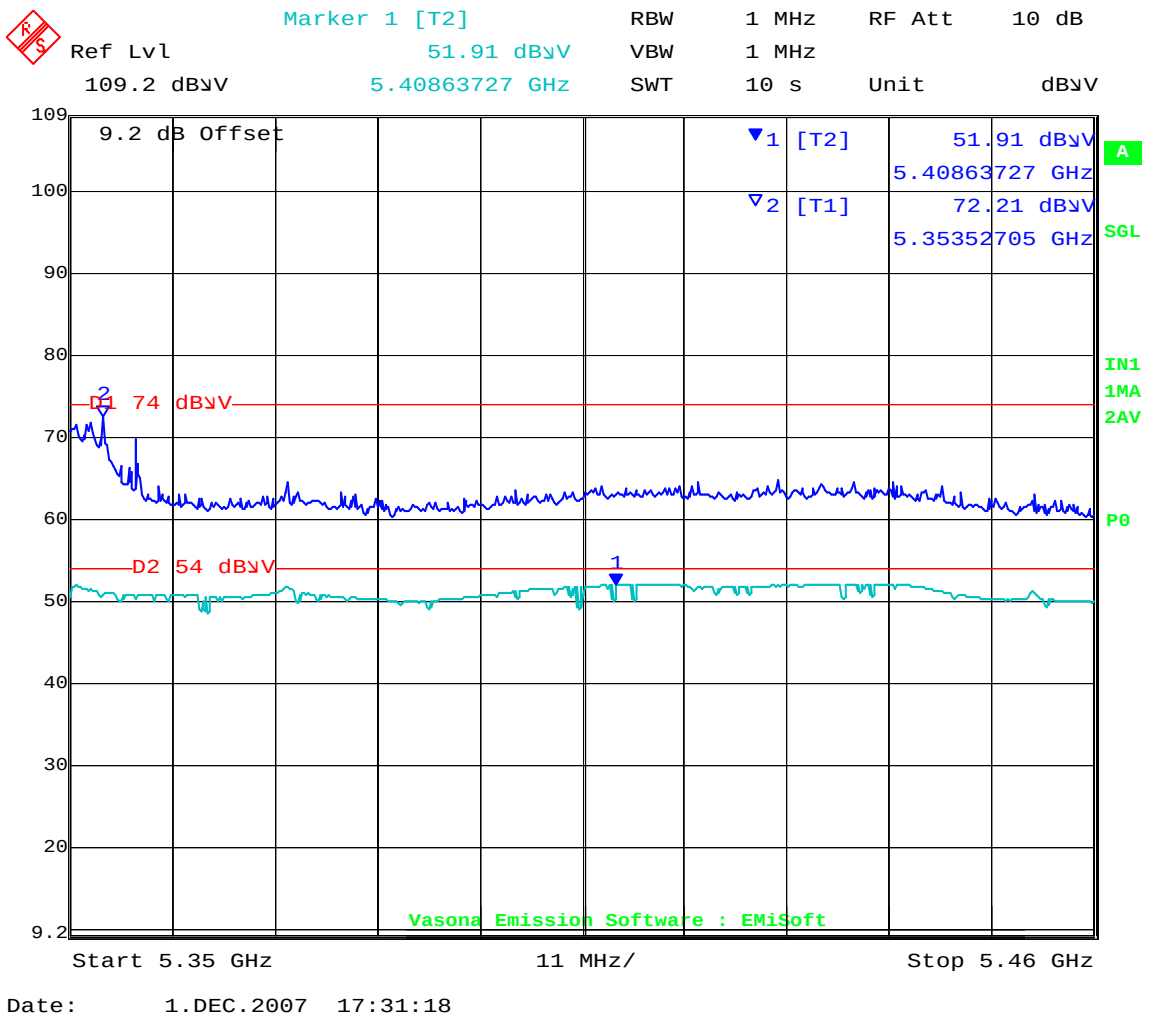
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5316.733	77.17	10.62	34.76	122.55	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5350.000	ART power Setting = 14.0				Peak Max	V			74	-1.79	Pass	Band-edge
5350.000					Average Max	V			54	-2.09	Pass	Band-edge
1067.144	74.76	2.02	-16.09	60.69	Peak Max	V	101	18	74	-13.31	Pass	
1606.212	70.29	2.46	-14.25	58.5	Peak Max	V	151	186	74	-15.5	Pass	
4951.984	62.39	4.58	-9.3	57.66	Peak Max	V	104	140	74	-16.34	Pass	
10641.283	46.72	6.83	-1.18	52.37	Peak Max	V	151	46	74	-21.63	Pass	
15958.327	48.12	8.95	-1.01	56.07	Peak Max	V	98	321	74	-17.93	Pass	
1067.144	58.72	2.02	-16.09	44.65	Average Max	V	101	18	54	-9.35	Pass	
1606.212	49.85	2.46	-14.25	38.05	Average Max	V	151	186	54	-15.95	Pass	
4951.984	49.45	4.58	-9.3	44.72	Average Max	V	104	140	54	-9.28	Pass	
10641.283	33.23	6.83	-1.18	38.89	Average Max	V	151	46	54	-15.11	Pass	
15958.327	32.97	8.95	-1.01	40.92	Average Max	V	98	321	54	-13.08	Pass	
1987.976	67.21	2.74	-11.26	58.69	Peak [Scan]	H	100	0	68.23	-9.54	Pass	
5496.994	62.33	4.62	-8.38	58.57	Peak [Scan]	H	100	0	68.23	-9.66	Pass	



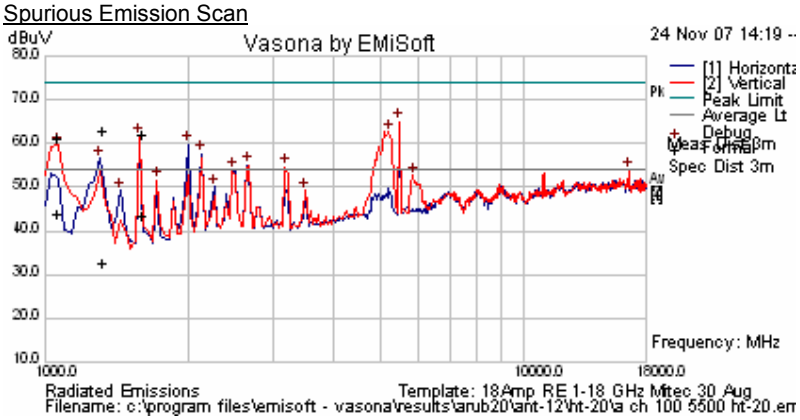
HT-20 Band-edge @ 5350 MHz with ANT-12

AP124: 5460-5725 MHz ANT-12 (14dBi) HT-20 Data Rates

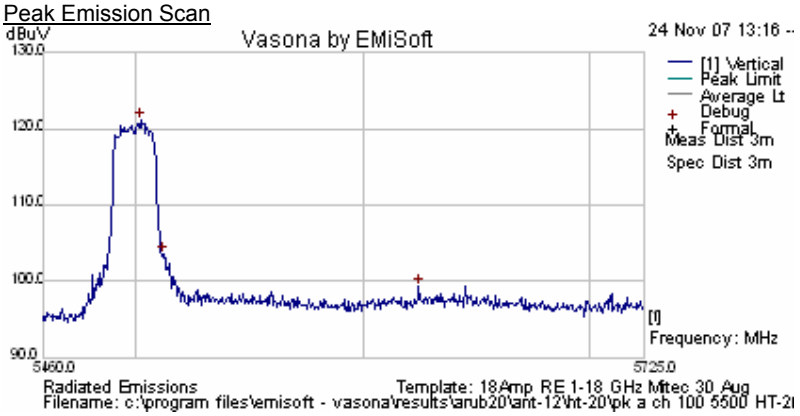
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
100	5500	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

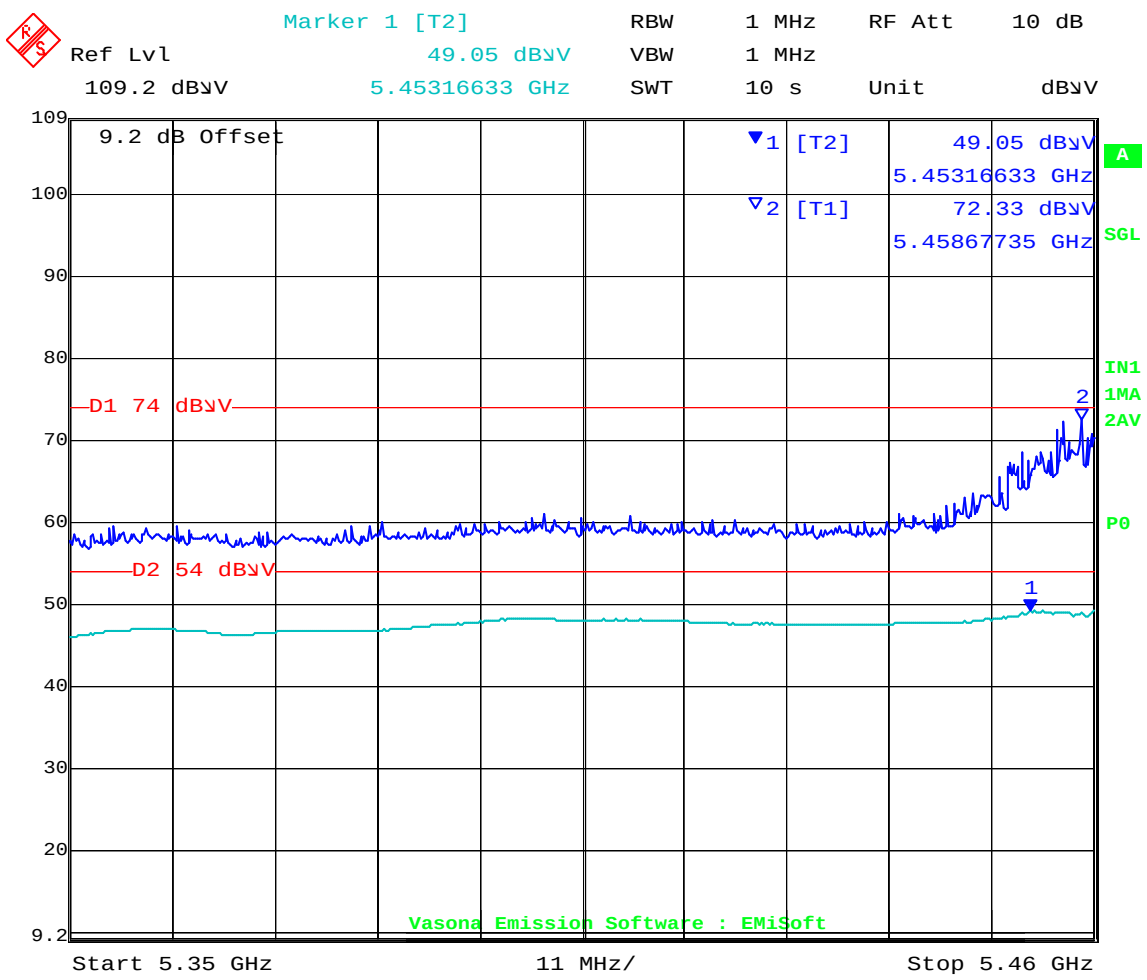
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5502.485	75.53	10.62	34.9	121.05	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5460.000	ART Power Setting = 14.0				Peak Max	V			74		Pass	Band-edge
5460.000					Average Max	V			54		Pass	Band-edge
1605.851	71.91	2.46	-14.26	60.11	Peak Max	V	142	180	74	-13.89	Pass	
1065.957	73.06	2.02	-16.09	58.99	Peak Max	V	101	124	74	-15.01	Pass	
1329.639	74.4	2.25	-15.58	61.06	Peak Max	V	104	266	74	-12.94	Pass	
1605.851	53.21	2.46	-14.26	41.41	Average Max	V	142	180	54	-12.59	Pass	
1065.957	56.1	2.02	-16.09	42.03	Average Max	V	101	124	54	-11.97	Pass	
1329.639	43.76	2.25	-15.58	30.42	Average Max	H	99	255	54	-23.58	Pass	
5224.449	67.24	4.62	-9.09	62.77	Peak [Scan]	H	100	0	68.23	-5.46	Pass	
1987.976	68.38	2.74	-11.26	59.86	Peak [Scan]	H	100	0	68.23	-8.37	Pass	
2124.248	65.95	2.82	-11.03	57.74	Peak [Scan]	H	100	0	68.23	-10.49	Pass	

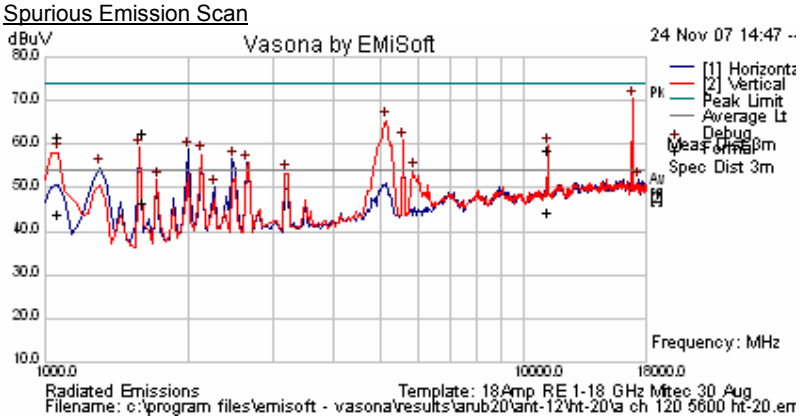


HT-20 Band-edge @ 5460 MHz with ANT-12

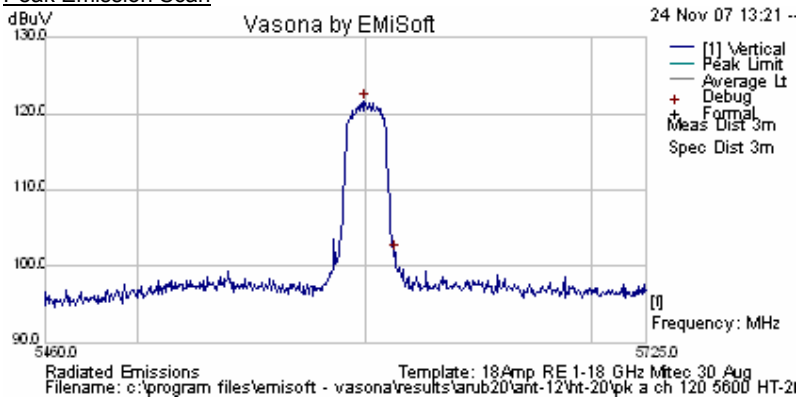
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
120	5600	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

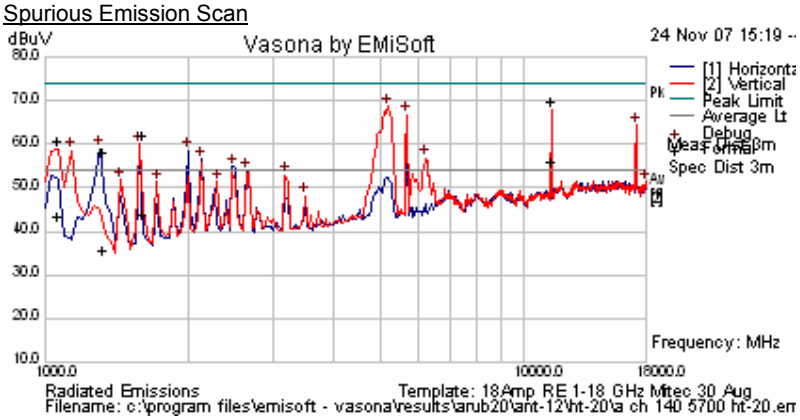


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5599.138	76.01	10.68	34.98	121.67	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11199.669	51.29	6.9	-1.84	56.35	Peak Max	V	106	69	74	-17.65	Pass	
1601.012	72.42	2.46	-14.3	60.57	Peak Max	V	99	177	74	-13.43	Pass	
1067.865	73.48	2.02	-16.09	59.41	Peak Max	V	98	13	74	-14.59	Pass	
11199.669	37.35	6.9	-1.84	42.41	Average Max	V	106	69	54	-11.59	Pass	
1601.012	56.09	2.46	-14.3	44.24	Average Max	V	99	177	54	-9.76	Pass	
1067.865	55.91	2.02	-16.09	41.84	Average Max	V	98	13	54	-12.16	Pass	
16807.615	61.47	7.2	-0.99	67.68	Peak [Scan]	H	100	0	68.23	-0.55	Pass	
5156.313	70.18	4.62	-9.28	65.52	Peak [Scan]	H	100	0	68.23	-2.71	Pass	
1987.976	67.22	2.74	-11.26	58.7	Peak [Scan]	H	100	0	68.23	-9.53	Pass	
2124.248	65.94	2.82	-11.03	57.73	Peak [Scan]	H	100	0	68.23	-10.50	Pass	

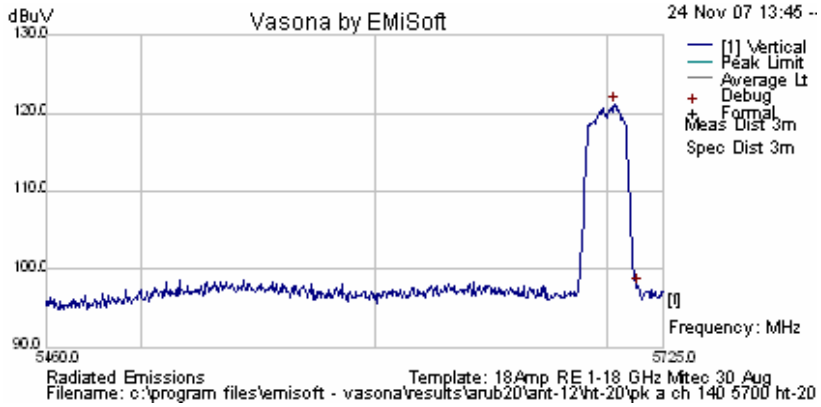
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
140	5700	ART 17	99%	6.5 HT-20	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

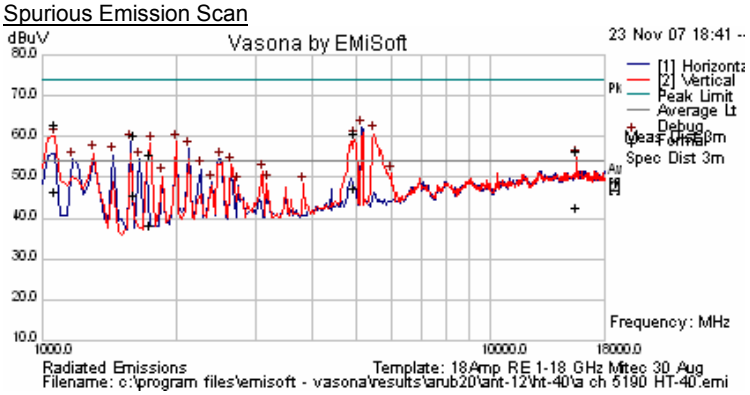


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5703.758	75.25	10.73	35.07	121.05	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11401.303	62.81	6.82	-1.73	67.91	Peak Max	V	103	166	74	-6.09	Pass	
1605.851	72.04	2.46	-14.26	60.24	Peak Max	V	99	182	74	-13.76	Pass	
1329.399	69.62	2.24	-15.58	56.28	Peak Max	V	105	239	74	-17.72	Pass	
1064.829	72.93	2.02	-16.08	58.86	Peak Max	V	98	124	74	-15.14	Pass	
11401.303	48.75	6.82	-1.73	53.84	Average Max	V	103	166	54	-0.16	Pass	
1605.851	53.48	2.46	-14.26	41.68	Average Max	V	99	182	54	-12.32	Pass	
1329.399	46.76	2.24	-15.58	33.42	Average Max	H	151	103	54	-20.58	Pass	
1064.829	55.32	2.02	-16.08	41.25	Average Max	V	98	124	54	-12.75	Pass	
5190.381	70.11	4.62	-9.21	65.52	Peak [Scan]	H	100	0	68.23	-2.71	Pass	
17114.228	54.55	6.37	-0.74	60.18	Peak [Scan]	H	100	0	68.23	-8.05	Pass	
1987.976	67.1	2.74	-11.26	58.58	Peak [Scan]	H	100	0	68.23	-9.65	Pass	

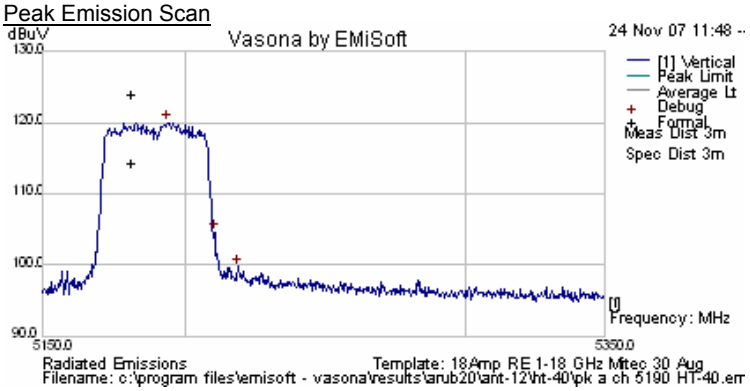
AP124: 5150-5250GHz ANT-12 (14dBi) HT-40 Data Rates

ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5190	ART 17	99%	13.5 HT-40	Yes

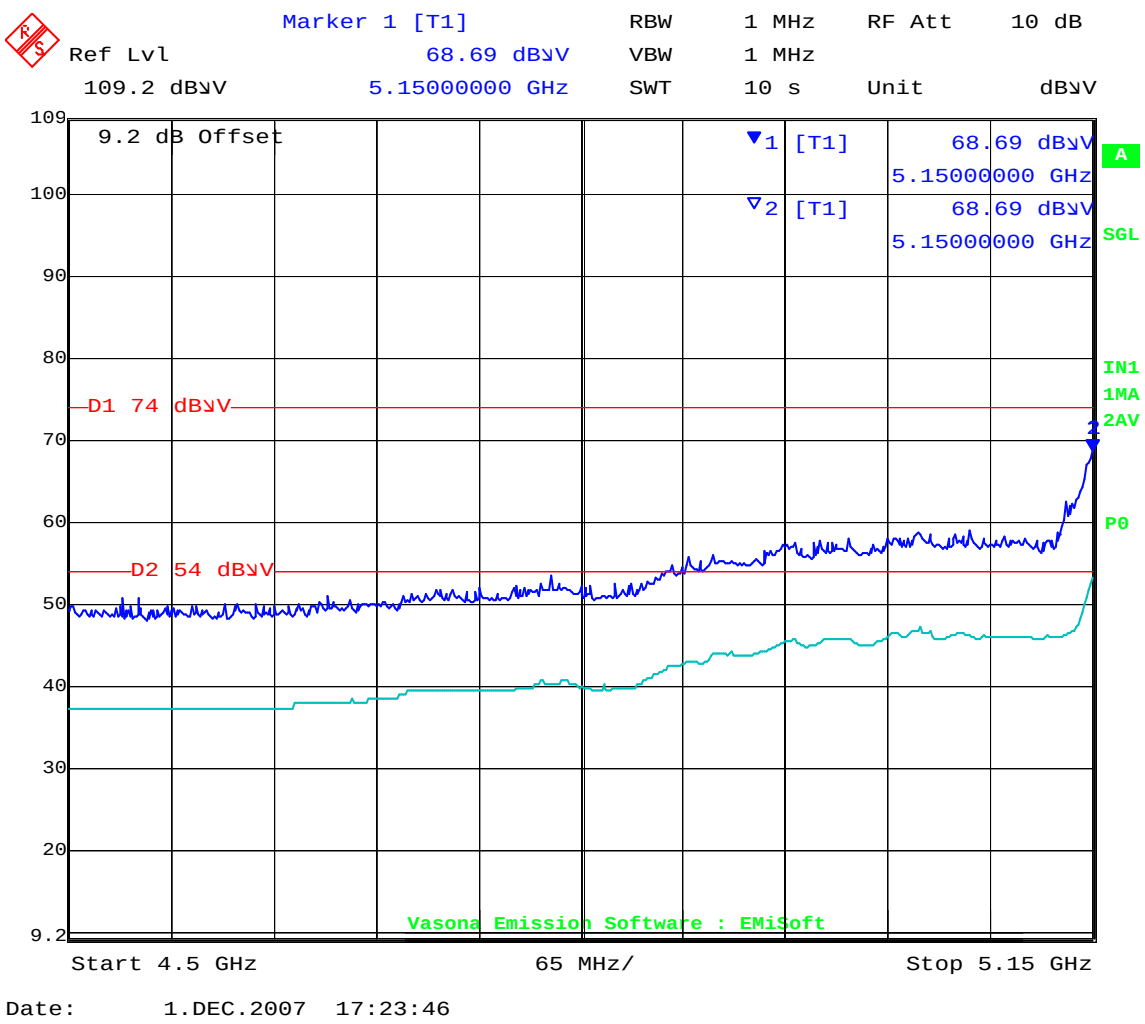
Three antennas operating simultaneously
NRB = None Restrictive Band
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5194.088	74.74	10.62	34.66	120.02	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5150.000	ART Power Setting = 7.0				Peak Max	V			74	-5.31	Pass	Band-edge
5150.000					Average Max	V			54	-0.95	Pass	Band-edge
1068.136	75	2.02	-16.09	60.93	Peak Max	V	105	27	74	-13.07	Pass	
4954.534	63.48	4.58	-9.31	58.76	Peak Max	V	100	137	74	-15.24	Pass	
1603.619	70.16	2.46	-14.28	58.34	Peak Max	V	105	181	74	-15.66	Pass	
1736.201	64.13	2.56	-13.29	53.41	Peak Max	V	104	201	74	-20.59	Pass	
15574.43	47.22	8.33	-1.2	54.35	Peak Max	V	102	312	74	-19.65	Pass	
1068.136	58.37	2.02	-16.09	44.3	Average Max	V	105	27	54	-9.7	Pass	
4954.534	50.07	4.58	-9.31	45.34	Average Max	V	100	137	54	-8.66	Pass	
1603.619	55.61	2.46	-14.28	43.79	Average Max	H	100	42	54	-10.21	Pass	
1736.201	47.06	2.56	-13.29	36.34	Average Max	V	104	201	54	-17.66	Pass	
15574.43	33.23	8.33	-1.2	40.36	Average Max	V	102	312	54	-13.64	Pass	
5496.994	64.48	4.62	-8.38	60.72	Peak [Scan]	V	100	0	68.23	-7.51	Pass	
1987.976	67.21	2.74	-11.26	58.69	Peak [Scan]	V	100	0	68.23	-9.54	Pass	

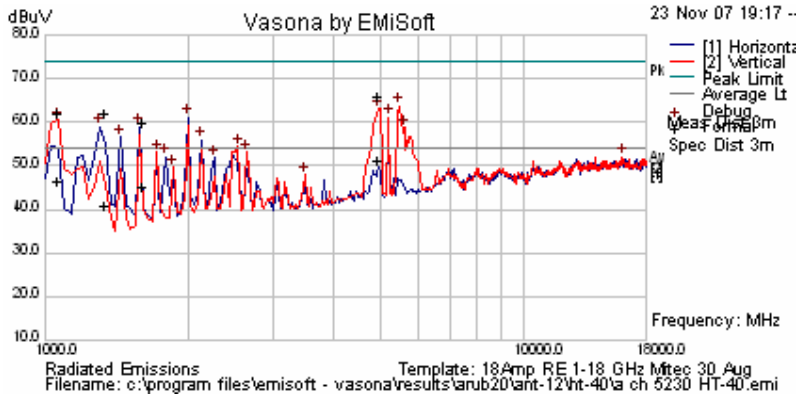


HT-40 Band-edge @ 5150 MHz with ANT-12

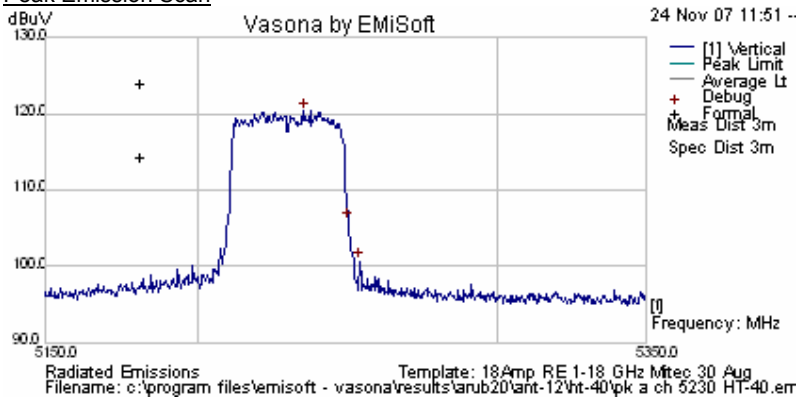
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5230	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

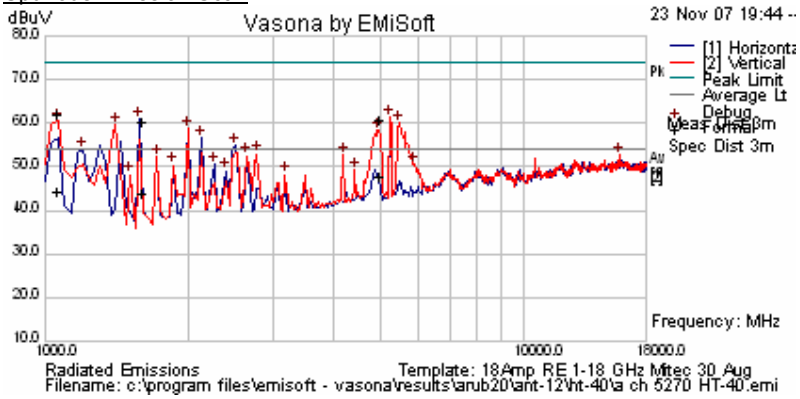


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5235.371	75.07	10.62	34.69	120.38	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
4946.894	68.7	4.57	-9.29	63.98	Peak Max	V	103	128	74	-10.02	Pass	
1066.483	74.16	2.02	-16.09	60.09	Peak Max	V	100	15	74	-13.91	Pass	
1603.747	69.89	2.46	-14.28	58.07	Peak Max	V	110	177	74	-15.93	Pass	
1332.224	73.34	2.25	-15.57	60.02	Peak Max	V	100	305	74	-13.98	Pass	
4946.894	53.73	4.57	-9.29	49.02	Average Max	V	103	128	54	-4.98	Pass	
1066.483	58.71	2.02	-16.09	44.64	Average Max	V	100	15	54	-9.36	Pass	
1603.747	55.09	2.46	-14.28	43.27	Average Max	H	139	43	54	-10.73	Pass	
1332.224	52.36	2.25	-15.57	39.03	Average Max	H	108	79	54	-14.97	Pass	
5496.994	67.58	4.62	-8.38	63.83	Peak [Scan]	V	100	0	68.23	-4.40	Pass	
5224.449	65.69	4.62	-9.09	61.22	Peak [Scan]	V	100	0	68.23	-7.01	Pass	
1987.976	69.71	2.74	-11.26	61.19	Peak [Scan]	H	100	0	68.23	-7.04	Pass	

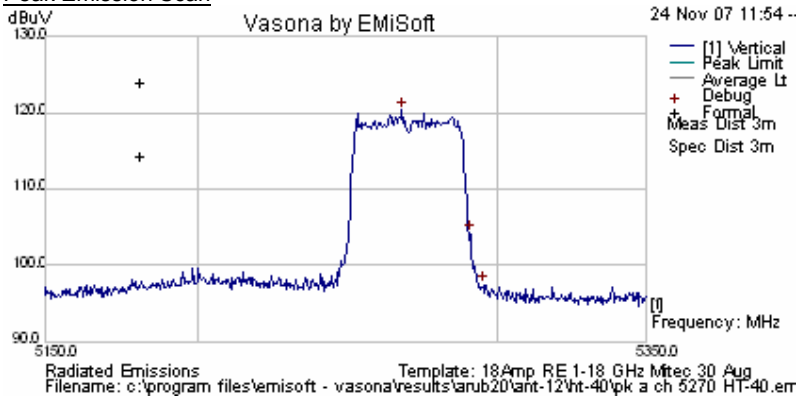
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5270	ART 17	99%	13.5	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

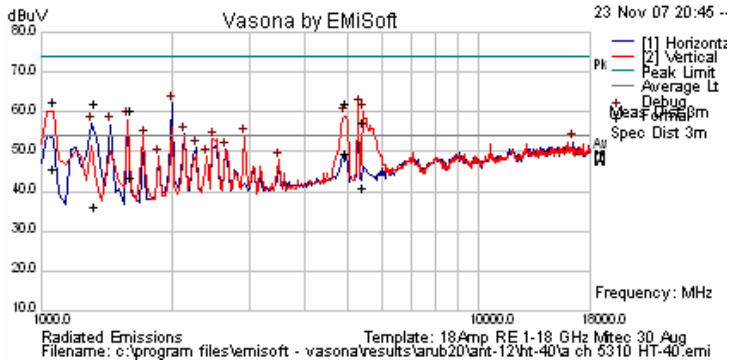


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5267.836	75.1	10.62	34.72	120.44	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
1605.536	69.89	2.46	-14.26	58.09	Peak Max	V	106	184	74	-15.91	Pass	
1070.466	74.28	2.02	-16.09	60.21	Peak Max	V	110	36	74	-13.79	Pass	
4993.667	63.35	4.61	-9.37	58.6	Peak Max	V	109	129	74	-15.4	Pass	
1605.536	53.74	2.46	-14.26	41.94	Average Max	H	98	38	54	-12.06	Pass	
1070.466	56.33	2.02	-16.09	42.26	Average Max	V	110	36	54	-11.74	Pass	
4993.667	50.38	4.61	-9.37	45.63	Average Max	V	109	129	54	-8.37	Pass	
5496.994	63.9	4.62	-8.38	60.14	Peak [Scan]	V	100	0	68.23	-8.09	Pass	
1987.976	67.43	2.74	-11.26	58.91	Peak [Scan]	H	100	0	68.23	-9.32	Pass	
2124.248	64.73	2.82	-11.03	56.51	Peak [Scan]	H	100	0	68.23	-11.72	Pass	
2498.998	63.21	3	-11.26	54.95	Peak [Scan]	H	100	0	68.23	-13.28	Pass	

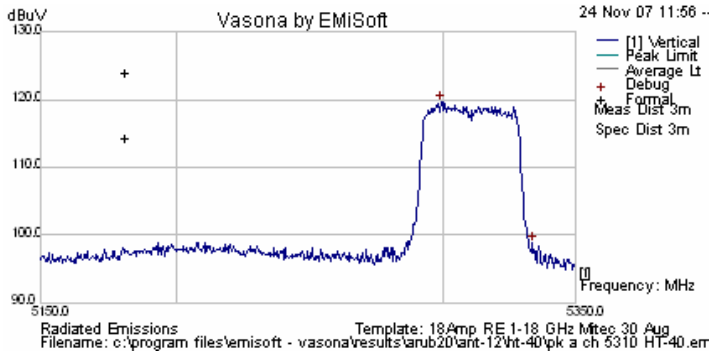
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5310	ART 17	99%	13.5	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

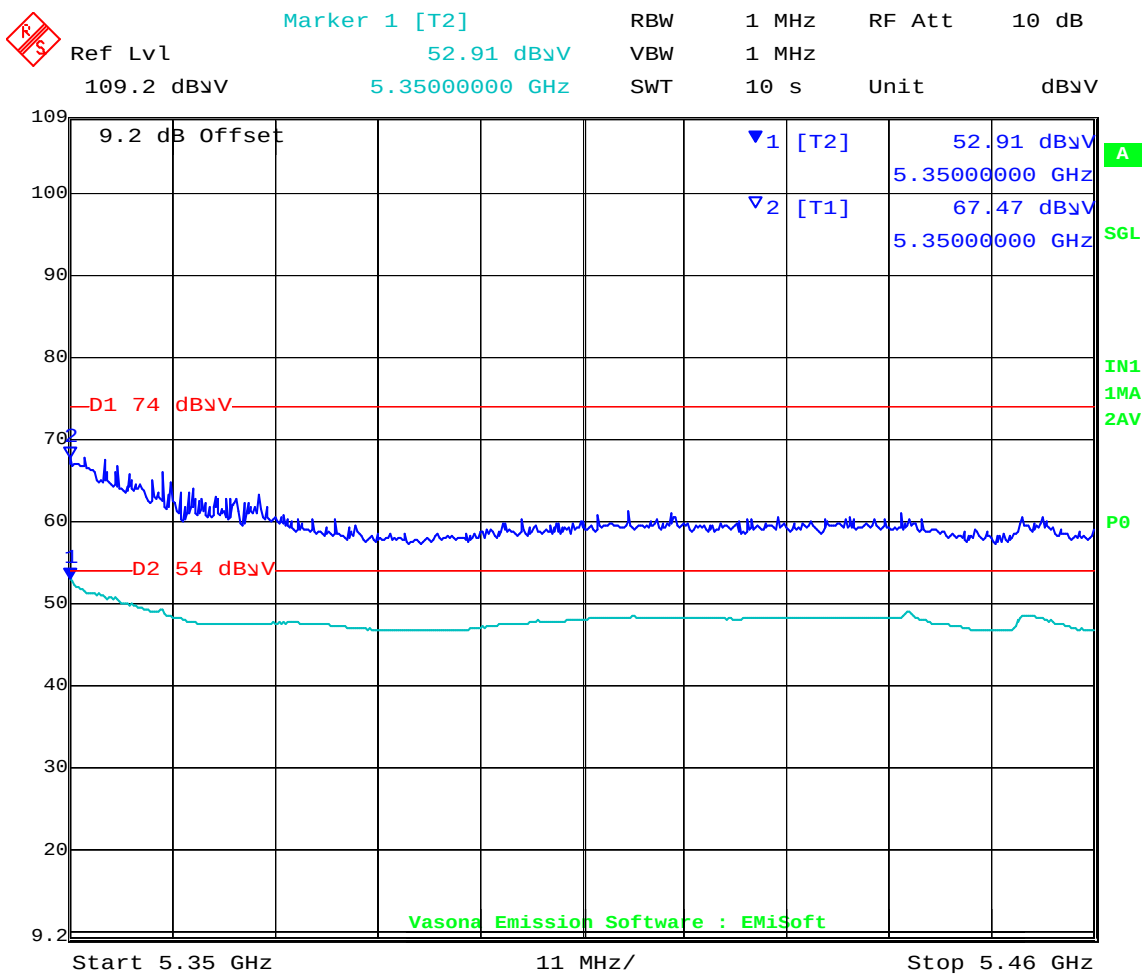
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5299.098	74.24	10.62	34.74	119.61	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5350.000	ART power Setting = 10.0				Peak Max	V			74	-6.53	Pass	Band-edge
5350.000					Average Max	V			54	-1.09	Pass	Band-edge
1065.641	74.4	2.02	-16.09	60.33	Peak Max	V	103	16	74	-13.67	Pass	
5442.415	58.89	4.62	-8.39	55.13	Peak Max	V	131	149	74	-18.87	Pass	
4949.7	64.77	4.58	-9.3	60.05	Peak Max	V	103	131	74	-13.95	Pass	
1605.851	70.29	2.46	-14.26	58.5	Peak Max	V	106	182	74	-15.5	Pass	
1330.962	73.48	2.25	-15.58	60.15	Peak Max	V	98	302	74	-13.85	Pass	
1065.641	57.53	2.02	-16.09	43.46	Average Max	V	103	16	54	-10.54	Pass	
5442.415	42.45	4.62	-8.39	38.69	Average Max	V	131	149	54	-15.31	Pass	
4949.7	52.15	4.58	-9.3	47.43	Average Max	V	103	131	54	-6.57	Pass	
1605.851	53.18	2.46	-14.26	41.38	Average Max	H	139	39	54	-12.62	Pass	
1330.962	47.53	2.25	-15.58	34.19	Average Max	V	98	302	54	-19.81	Pass	
1987.976	70.88	2.74	-11.26	62.36	Peak [Scan]	H	100	0	68.23	-5.87	Pass	
2124.248	62.72	2.82	-11.03	54.51	Peak [Scan]	H	100	0	68.23	-13.72	Pass	



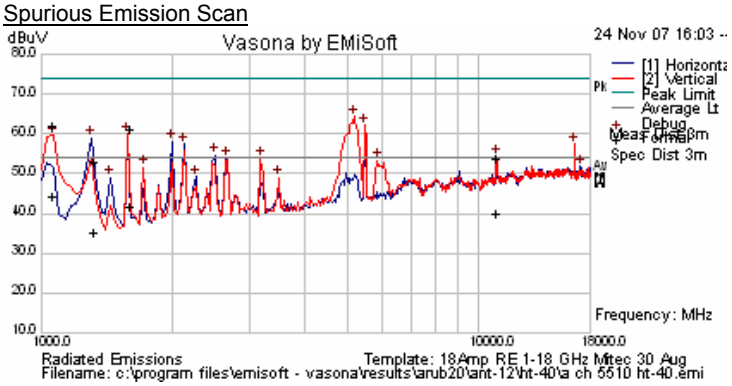
HT-40 Band-edge @ 5350 MHz with ANT-12

AP124: 5470-5725 MHz ANT-12 (14dBi) HT-40 Data Rates

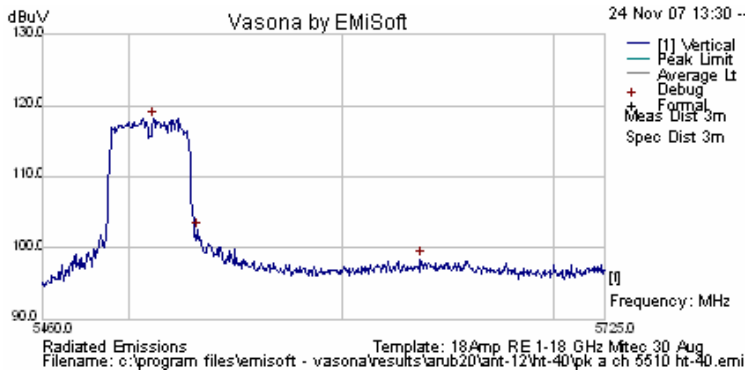
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5510	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

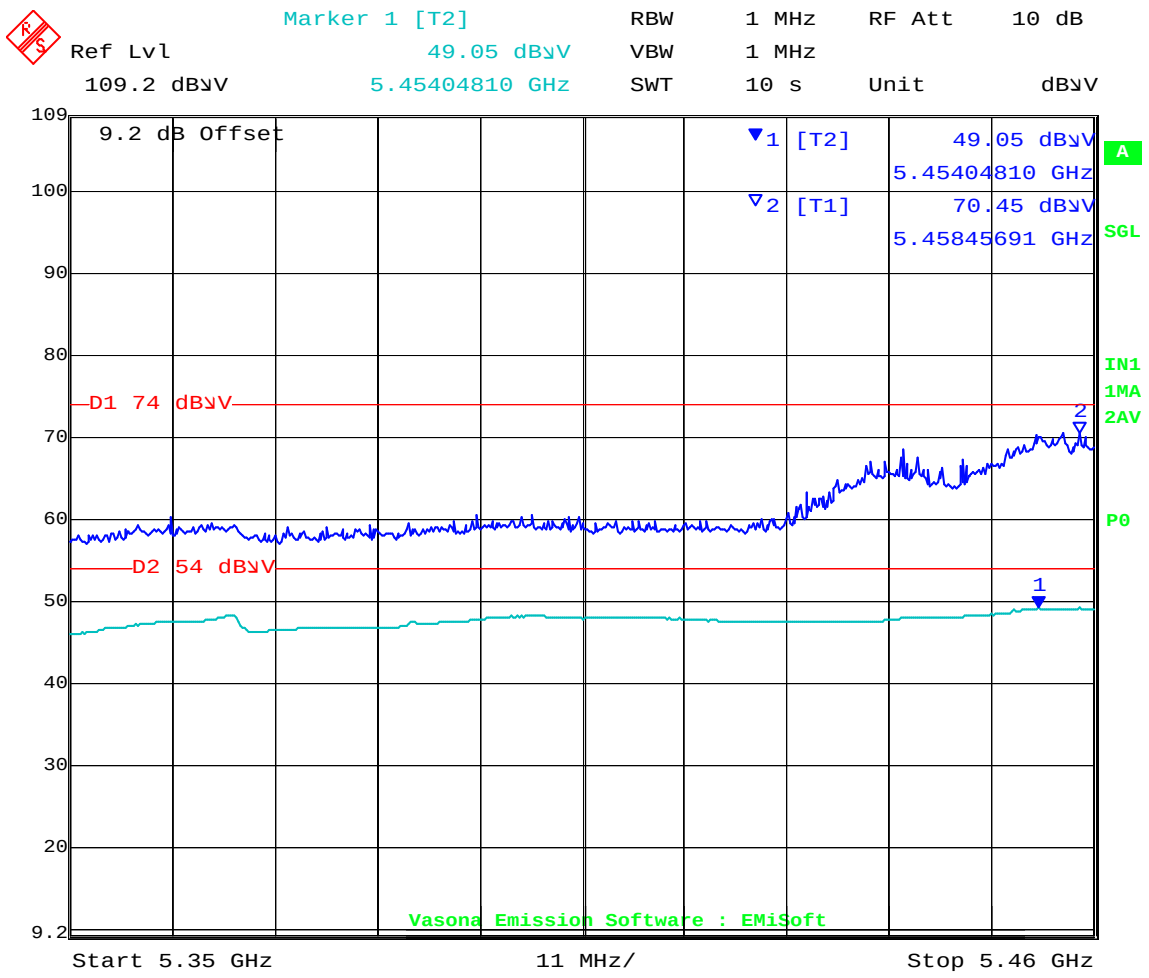
Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5511.513	72.58	10.63	34.91	118.11	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
5460.000	ART Power Setting = 11.0				Peak Max	V			74	-3.55	Pass	Band-edge
5460.000					Average Max	V			54	-4.95	Pass	Band-edge
1606.107	70.98	2.46	-14.26	59.19	Peak Max	V	103	183	74	-14.81	Pass	
1068.091	74.04	2.02	-16.09	59.97	Peak Max	V	98	16	74	-14.03	Pass	
1329.399	64.26	2.24	-15.58	50.92	Peak Max	V	143	233	74	-23.08	Pass	
11016.032	46.34	6.96	-1.58	51.73	Peak Max	V	140	340	74	-22.27	Pass	
1606.107	51.47	2.46	-14.26	39.67	Average Max	V	103	183	54	-14.33	Pass	
1068.091	56.39	2.02	-16.09	42.32	Average Max	V	98	16	54	-11.68	Pass	
1329.399	46.68	2.24	-15.58	33.34	Average Max	H	110	42	54	-20.66	Pass	
11016.032	32.51	6.96	-1.58	37.9	Average Max	V	140	340	54	-16.1	Pass	
5190.381	69.15	4.62	-9.21	64.56	Peak [Scan]	H	100	0	68.23	-3.67	Pass	
1987.976	66.65	2.74	-11.26	58.13	Peak [Scan]	H	100	0	68.23	-10.10	Pass	
2124.248	65.75	2.82	-11.03	57.54	Peak [Scan]	H	100	0	68.23	-10.69	Pass	

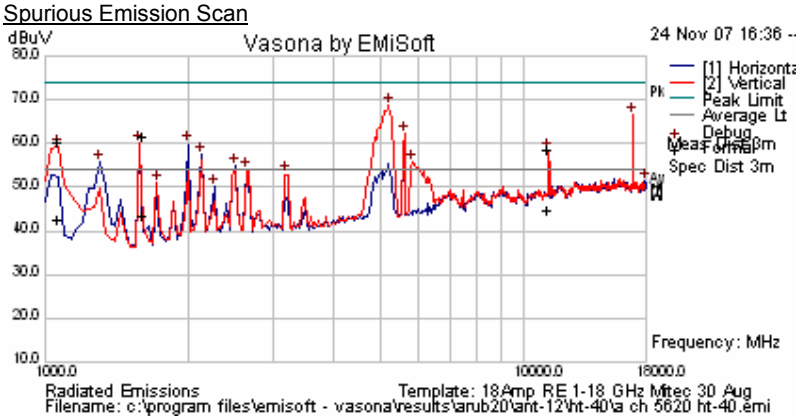


HT-40 Band-edge @ 5460 MHz with ANT-12

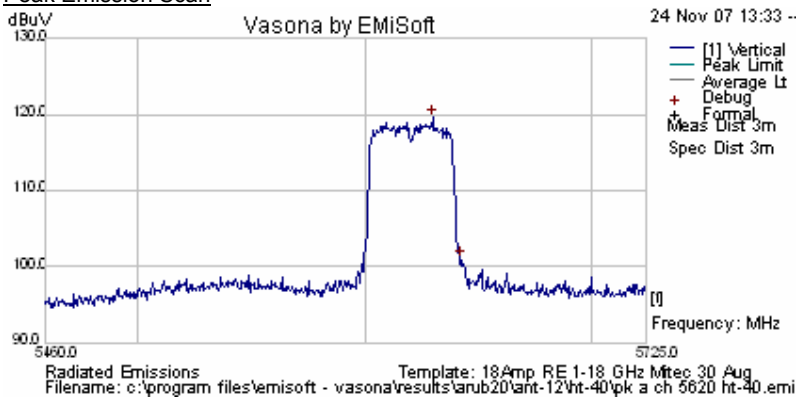
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5620	ART 17	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

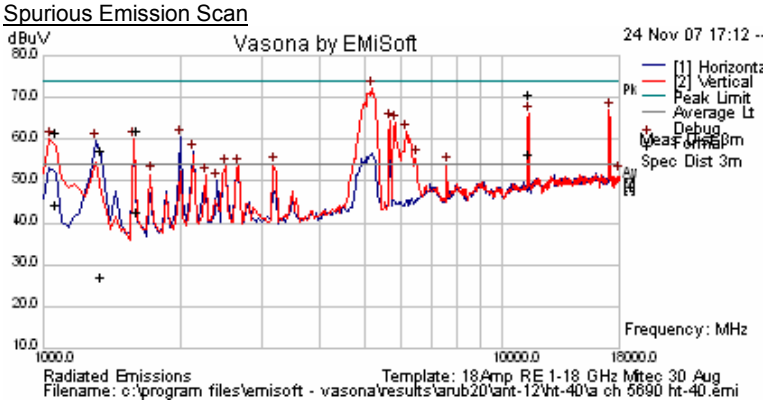


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5629.409	73.84	10.69	35.01	119.53	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
1605.431	71.51	2.46	-14.26	59.71	Peak Max	V	102	179	74	-14.29	Pass	
1063.387	72.55	2.01	-16.08	58.48	Peak Max	V	98	143	74	-15.52	Pass	
11220.441	51.42	6.89	-1.8	56.51	Peak Max	V	108	62	74	-17.49	Pass	
1605.431	53.11	2.46	-14.26	41.3	Average Max	V	102	179	54	-12.7	Pass	
1063.387	54.55	2.01	-16.08	40.48	Average Max	V	98	143	54	-13.52	Pass	
11220.441	37.47	6.89	-1.8	42.56	Average Max	V	108	62	54	-11.44	Pass	
5224.449	70.30	4.62	-9.09	65.83	Peak [Scan]	H	100	0	68.23	-2.40	Pass	
16875.752	57.54	7.16	-0.97	63.73	Peak [Scan]	H	100	0	68.23	-4.50	Pass	
1987.976	68.41	2.74	-11.26	59.89	Peak [Scan]	H	100	0	68.23	-8.34	Pass	
2124.248	65.6	2.82	-11.03	57.39	Peak [Scan]	H	100	0	68.23	-10.84	Pass	

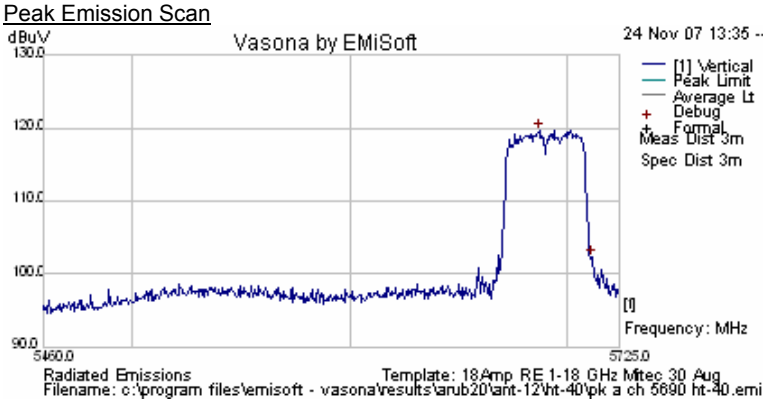
ARUB20 AP124 - ANT-12 (14dBi) Test Configuration					
Channel	**Freq (MHz)**	**Software Pwr Setting**	**Duty Cycle**	**Data Rate (MCS)**	**Compliant**
	5690	ART 16*	99%	13.5 HT-40	Yes

Three antennas operating simultaneously
NRB = None Restrictive Band
*Reduction in output power required to bring into compliance

Spurious Emission Scan



Peak Emission Scan



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV	Margin dB	Pass /Fail	Comments
5687.295	73.84	10.72	35.05	119.61	Peak [Scan]	V	100	0	N/A	N/A	N/A	Fundamental
11380.441	63.61	6.83	-1.76	68.69	Peak Max	V	118	49	74	-5.31	Pass	
1606.062	71.64	2.46	-14.26	59.85	Peak Max	V	101	181	74	-14.15	Pass	
1068.096	73.76	2.02	-16.09	59.69	Peak Max	V	98	43	74	-14.31	Pass	
1338.356	68.7	2.25	-15.55	55.4	Peak Max	V	115	301	74	-18.6	Pass	
11380.441	47.89	6.83	-1.76	52.97	Average Max	V	118	49	54	-1.03	Pass	
1606.062	52.17	2.46	-14.26	40.37	Average Max	V	101	181	54	-13.63	Pass	
1068.096	56.3	2.02	-16.09	42.23	Average Max	V	98	43	54	-11.77	Pass	
1338.356	38.05	2.25	-15.55	24.75	Average Max	H	115	187	54	-29.25	Pass	
5190.381	70.77	4.62	-9.21	66.18	Peak [Scan]	H	100	0	68.23	-2.05	Pass	
17080.16	59.28	8.52	-0.79	67.01	Peak [Scan]	V	100	0	99.61	-32.60	Pass	
5837.675	67.36	4.8	-8.3	63.86	Peak [Scan]	V	100	0	99.61	-35.75	Pass	

Specification

Limits

15.407 (b)(2). All emissions outside of the 5,150-5,350MHz band shall not exceed an EIRP of -27dBm/MHz.

§15.205 (a) Except as shown in paragraph (d) of 15.205 (a), only spurious emissions are permitted in any of the frequency bands listed.

§15.205 (a) Except as shown in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table.

RSS-210 §A9.3(2) For transmitters operating in the 5250-5350 MHz band, all emissions outside the 5150-5350 MHz band shall not exceed -27 dBm/MHz e.i.r.p. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band shall not exceed out of band emission limit of 27 dBm/MHz e.i.r.p. in the 5150-5250 MHz band in order to operate indoor/outdoor, or alternatively shall comply with the spectral power density for operation within the 5150-5250 MHz band and shall be labeled “for indoor use only”.

RSS-Gen §4.7 The search for unwanted emissions shall be from the lowest frequency internally generated or used in the device (local oscillator, intermediate of carrier frequency), or from 30 MHz , whichever is the lowest frequency, to the 5th harmonic of the highest frequency generated without exceeding 40 GHz.

RSS-Gen §6 Receiver Spurious Emission Standard
If a radiated measurement is made, all spurious emissions shall comply with the limits of the following Table. The resolution bandwidth of the spectrum analyzer shall be 100 kHz for spurious emission measurements below 1.0 GHz and 1.0 MHz for measurements above 1.0 GHz

§15.209 (a) Limit Matrix

Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance (meters)
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Laboratory Measurement Uncertainty for Radiated Emissions

Measurement uncertainty	+5.6/ -4.5 dB

Traceability

Method	Test Equipment Used
Measurements were made per work instruction WI-03 'Measurement of Radiated Emissions'	0088, 0158, 0134, 0304, 0311, 0315, 0310, 0312

5.1.7.2. Receiver Radiated Spurious Emissions (above 1 GHz)

Industry Canada RSS-Gen §4.8, §6

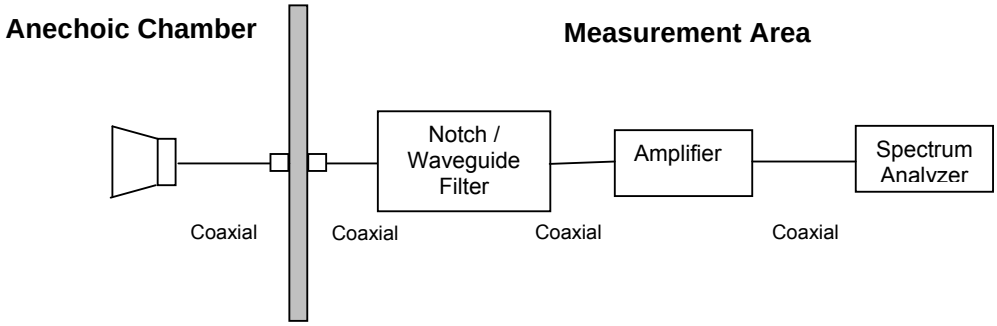
Test Procedure

Radiated emissions above 1 GHz are measured in the anechoic chamber at a 3-meter distance on every azimuth in both horizontal and vertical polarities. The emissions are recorded and maximized as a function of azimuth by rotation through 360° with a spectrum analyzer in peak hold mode. Depending on the frequency band spanned a notch filter and waveguide filter was used to remove the fundamental frequency. The highest emissions relative to the limit are listed for each frequency spanned.

All measurements on any frequency or frequencies over 1 MHz are based on the use of measurement instrumentation employing an average detector function. All measurements above 1 GHz were performed using a minimum resolution bandwidth of 1 MHz.

All Sectors of the EUT were tested simulatneously

Test Measurement Set up



Measurement set up for Radiated Emission Test

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. All factors are included in the reported data.

FS = R + AF + CORR - FO

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