

5.1.6. Radiated Emissions

5.1.6.1. Transmitter Radiated Spurious Emissions (above 1 GHz); Peak Field Strength Measurements; and Radiated Band Edge Measurements – Restricted Bands

FCC, Part 15 Subpart C §15.247(d) 15.205; 15.209

Industry Canada RSS-210 §A8.5, §2.2, §2.6

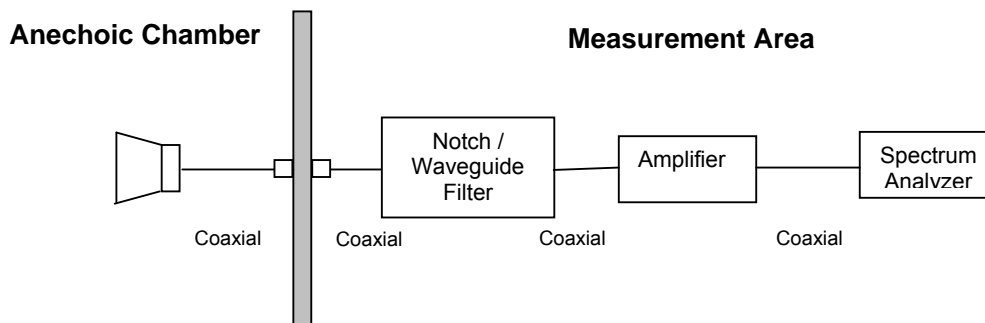
Industry Canada RSS-Gen §4.7

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.

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

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To: FCC 47 CFR Part 15.247 & IC RSS-210
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For example:

Given receiver input reading of 51.5 dB μ V; Antenna Factor of 8.5 dB; Cable Loss of 1.3 dB; Falloff Factor of 0 dB, an Amplifier Gain of 26 dB and Notch Filter Loss of 1 dB. The Field Strength of the measured emission is:

$$FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3 \text{ dB}\mu\text{V/m}$$

Conversion between dB μ V/m (or dB μ V) and μ V/m (or μ V) are done as:

$$\text{Level (dB}\mu\text{V/m)} = 20 * \text{Log (level (\mu\text{V/m}))}$$

$$40 \text{ dB}\mu\text{V/m} = 100 \mu\text{V/m}$$

$$48 \text{ dB}\mu\text{V/m} = 250 \mu\text{V/m}$$

Ambient conditions.

Temperature: 17 to 23°C

Relative humidity: 31 to 57 %

Pressure: 999 to 1012 mbar

Emission Characterization

During testing it was verified that there were several emissions emanating from the body of the EUT which was unrelated to antenna type and gain. The emissions which were observed over the range 1 - 3.5 GHz were individually characterized. The peak amplitude of emissions were found to be above 54dB μ V/m however they averaged down below the average limit in all cases.

Emissions 1-3.5 GHz and corresponding measurement values are identified on the following page.

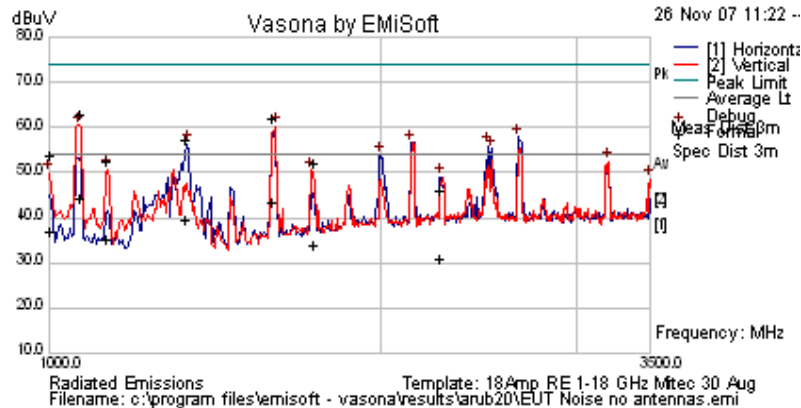
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Emission Characterization

Emissions emanating from body of EUT, 50 Ohm termination on all antenna ports
 NRB = None Restrictive Band

Spurious 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 |
|---------------|----------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|----------|
| 1070.391 | 74.79 | 2.02 | -16.09 | 60.72 | Peak Max | V | 98 | 45 | 74 | -13.28 | Pass | |
| 1594.398 | 71.79 | 2.45 | -14.37 | 59.88 | Peak Max | V | 104 | 187 | 74 | -14.12 | Pass | |
| 2490.768 | 65.69 | 3 | -11.24 | 57.45 | Peak Max | V | 128 | 30 | 74 | -16.55 | Pass | |
| 1331.012 | 68.73 | 2.25 | -15.58 | 55.4 | Peak Max | V | 119 | 66 | 74 | -18.60 | Pass | |
| 1129.389 | 64.41 | 2.08 | -15.96 | 50.52 | Peak Max | V | 98 | 27 | 74 | -23.48 | Pass | |
| 1739.83 | 60.74 | 2.57 | -13.26 | 50.04 | Peak Max | V | 98 | 218 | 74 | -23.96 | Pass | |
| 1002.856 | 66.21 | 1.95 | -16.15 | 52.01 | Peak Max | V | 99 | 12 | 74 | -21.99 | Pass | |
| 2257.515 | 52.19 | 2.89 | -11.02 | 44.05 | Peak Max | V | 142 | 185 | 74 | -29.95 | Pass | |
| 1070.391 | 56.14 | 2.02 | -16.09 | 42.07 | Average Max | V | 98 | 45 | 54 | -11.93 | Pass | |
| 1594.398 | 53.15 | 2.45 | -14.37 | 41.24 | Average Max | V | 104 | 187 | 54 | -12.76 | Pass | |
| 2490.768 | 52.71 | 3 | -11.24 | 44.47 | Average Max | V | 128 | 30 | 54 | -9.53 | Pass | |
| 1331.012 | 51.05 | 2.25 | -15.58 | 37.72 | Average Max | H | 106 | 18 | 54 | -16.28 | Pass | |
| 1129.389 | 47.2 | 2.08 | -15.96 | 33.31 | Average Max | V | 98 | 27 | 54 | -20.69 | Pass | |
| 1739.83 | 42.47 | 2.57 | -13.26 | 31.78 | Average Max | V | 98 | 218 | 54 | -22.22 | Pass | |
| 1002.856 | 49.16 | 1.95 | -16.15 | 34.96 | Average Max | V | 99 | 12 | 54 | -19.04 | Pass | |
| 2257.515 | 37.03 | 2.89 | -11.02 | 28.89 | Average Max | H | 125 | 134 | 54 | -25.11 | Pass | |
| 2658.317 | 66.27 | 3.13 | -11.37 | 58.02 | Peak [Scan] | H | 100 | 0 | | | | NRB |
| 2127.255 | 64.97 | 2.82 | -11.04 | 56.75 | Peak [Scan] | H | 100 | 0 | | | | NRB |
| 2513.026 | 63.53 | 3.01 | -11.31 | 55.23 | Peak [Scan] | H | 100 | 0 | | | | NRB |
| 1996.994 | 62.23 | 2.75 | -11.18 | 53.79 | Peak [Scan] | H | 100 | 0 | | | | NRB |
| 3209.419 | 60.7 | 3.48 | -11.65 | 52.53 | Peak [Scan] | V | 100 | 0 | | | | NRB |
| 3494.99 | 56.73 | 3.6 | -11.68 | 48.65 | Peak [Scan] | V | 100 | 0 | | | | NRB |

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To: FCC 47 CFR Part 15.247 & IC RSS-210
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ARUB20 AP-125 (ANT-INTEGRAL)
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 b (2390 2412 MHz)BE | 17.5 | 15.30 | 14.72 | 15.87 | 20.0 |
| Legacy g (2390 2412 MHz)BE | 13.5 | 15.39 | 14.70 | 16.21 | 17.0 |
| Legacy b (2390 2462 MHz)BE | 17.5 | 11.18 | 10.74 | 11.17 | 20.9 |
| Legacy g (2483.5 2462 MHz)BE | 12.5 | 10.04 | 10.92 | 10.47 | 15.51 |
| HT-20 | | | | | |
| HT-20 (2390 2412 MHz)BE | 12 | 10.00 | 9.27 | 10.20 | 15.22 |
| HT-20 (2483.5 2462 MHz)BE | 11.5 | 8.63 | 8.35 | 9.30 | 14.23 |
| HT-40 | | | | | |
| HT-40 (2390 2422 MHz)BE | 9.5 | 7.66 | 7.28 | 7.68 | 12.84 |
| HT-40 (2483.5 2452 MHz)BE | 9.5 | 7.35 | 6.82 | 7.67 | 12.68 |
| Legacy b (SE) | | | | | |
| Legacy b (2412 MHz)SE | 19 | 17.01 | 16.65 | 17.39 | 22.68 |
| Legacy b (2437 MHz)SE | 19 | 16.70 | 16.20 | 17.03 | 21.59 |
| Legacy b (2462 MHz)SE | 19 | 16.64 | 16.78 | 17.24 | 22.39 |
| Legacy g (SE) | | | | | |
| Legacy g (2412 MHz)SE | 17 | 15.08 | 14.43 | 15.35 | 20.37 |
| Legacy g (2437 MHz)SE | 17 | 14.71 | 14.32 | 15.01 | 20.40 |
| Legacy g (2462 MHz)SE | 17 | 14.78 | 14.58 | 15.47 | 21.27 |
| HT-20 (SE) | | | | | |
| HT-20 (2412 MHz)SE | 19 | 17.03 | 16.70 | 17.34 | 22.40 |
| HT-20 (2437 MHz)SE | 19 | 16.79 | 16.30 | 17.02 | 22.36 |
| HT-20 (2462 MHz)SE | 19 | 16.96 | 16.67 | 17.20 | 22.35 |
| HT-40 (SE) | | | | | |
| HT-40 (2422 MHz)SE | 17 | 14.86 | 14.43 | 15.25 | 20.07 |
| HT-40 (2437 MHz)SE | 17 | 14.67 | 14.62 | 15.11 | 19.02 |
| HT-40 (2452 MHz)SE | 17 | 14.75 | 14.80 | 15.31 | 20.29 |

Note BE = Band-edge, SE – Spurious emissions

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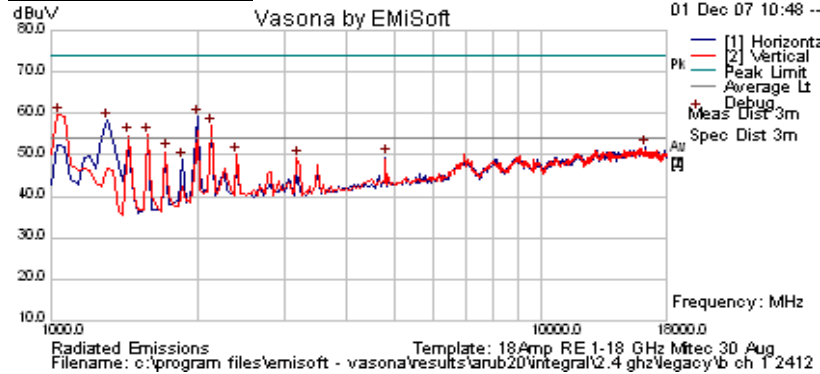
Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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AP125: 2400 - 2483.5 MHz INTEGRAL Legacy Data Rates

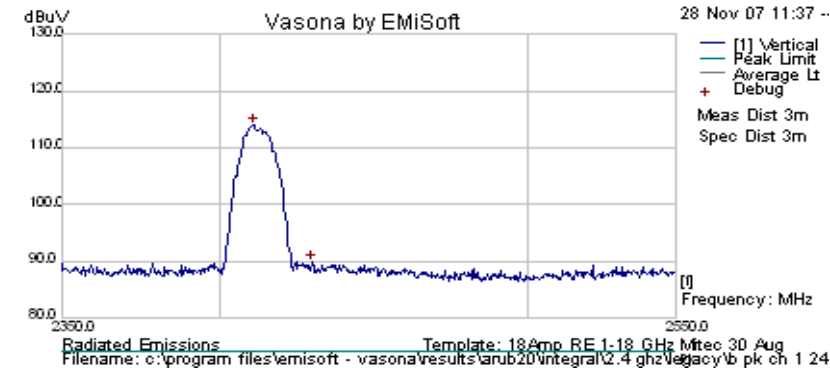
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 1 | 2412 | ART 19 | 99% | b 1 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

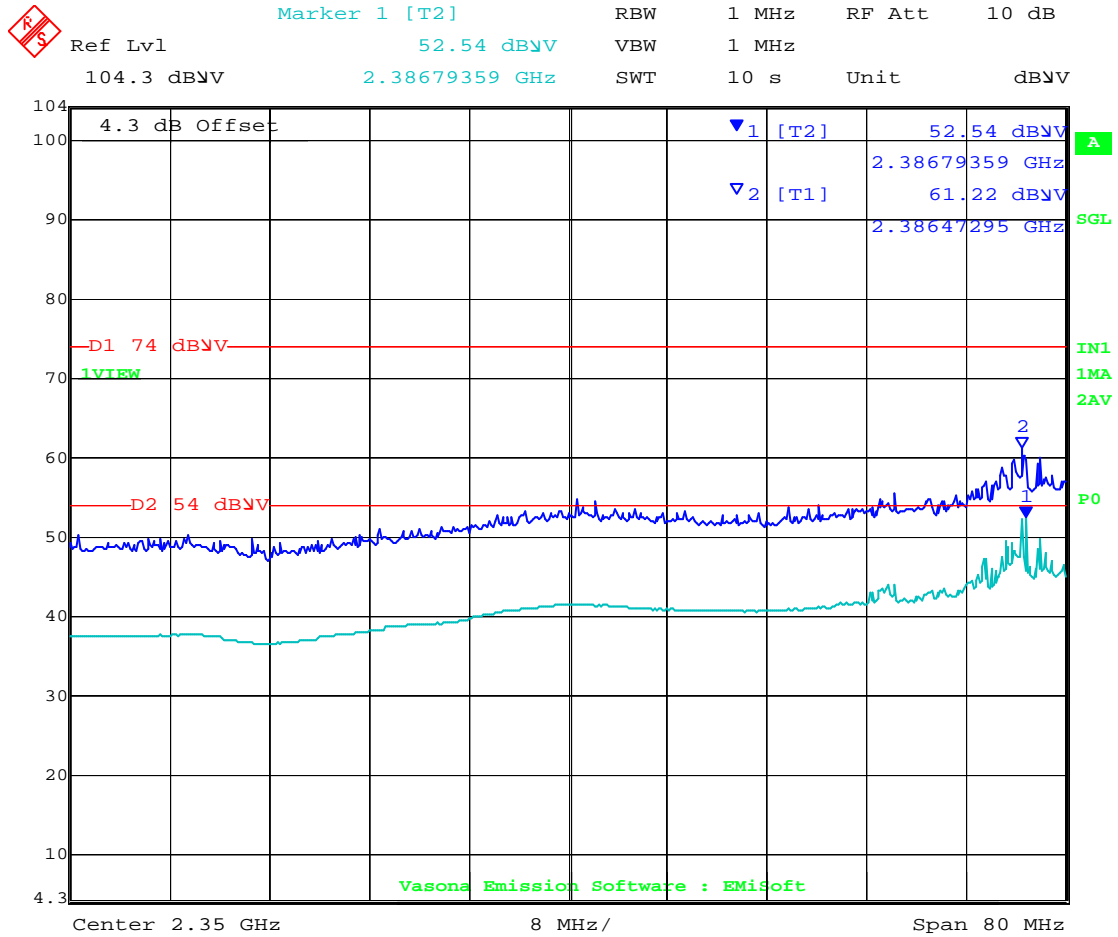


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|--------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2410.922 | 72.66 | 8.96 | 32.35 | 113.97 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2390.0 Pk | ART Power Setting = 17.5 | | | 61.22 | Formal Peak | V | | | 74 | -12.78 | Pass | Band-edge |
| 2390.0 Ave | | | | 52.54 | Formal Average | V | | | 54 | -1.46 | Pass | Band-edge |

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802.11b Legacy Band-edge 2390 MHz

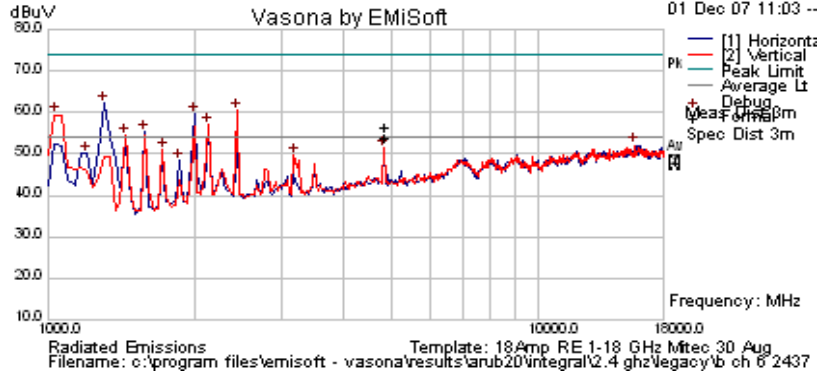
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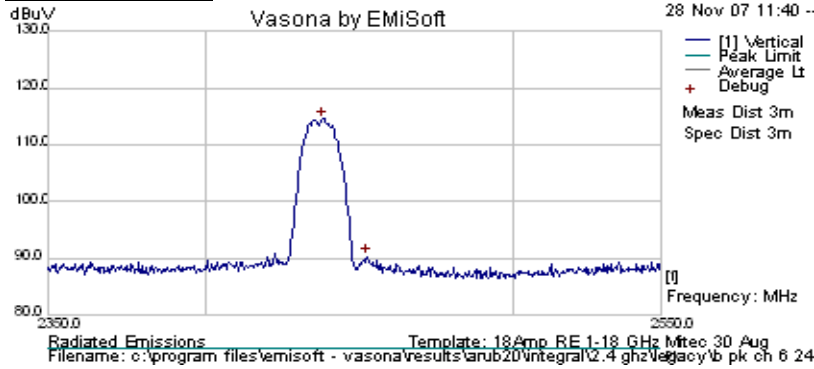
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 6 | 2437 | ART 19 | 99% | b 1 MBit/s 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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2437.776 | 73.31 | 8.97 | 32.37 | 114.65 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | PK Emission |
| 4873.897 | 59.26 | 4.51 | -9.16 | 54.61 | Peak Max | V | 131 | 360 | 74 | -19.39 | Pass | |
| 4873.897 | 56.34 | 4.51 | -9.16 | 51.69 | Average Max | V | 131 | 360 | 54 | -2.31 | Pass | |

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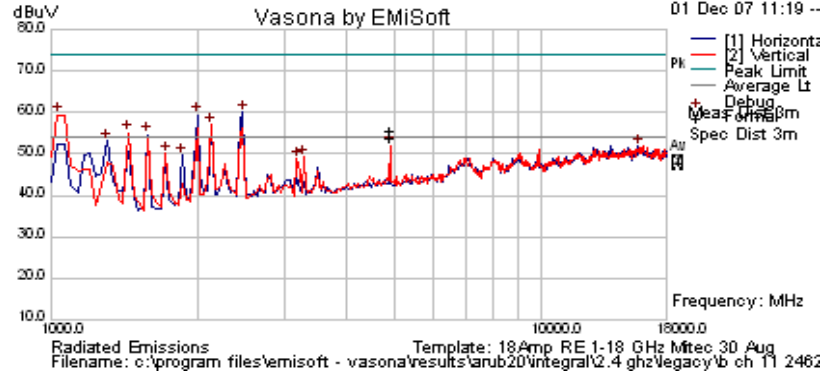


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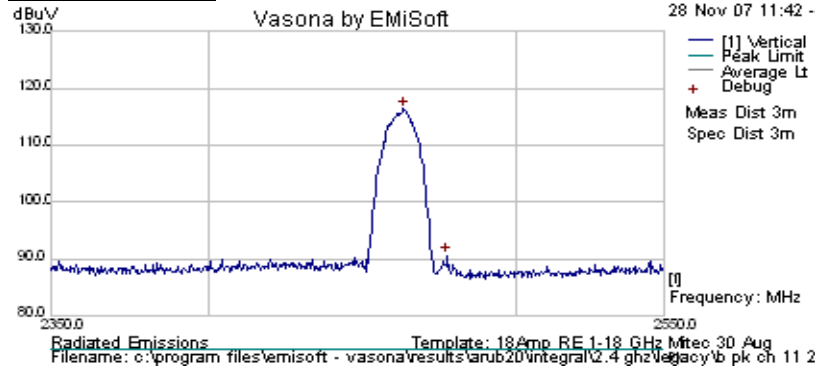
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 11 | 2462 | ART 19 | 99% | b 1 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

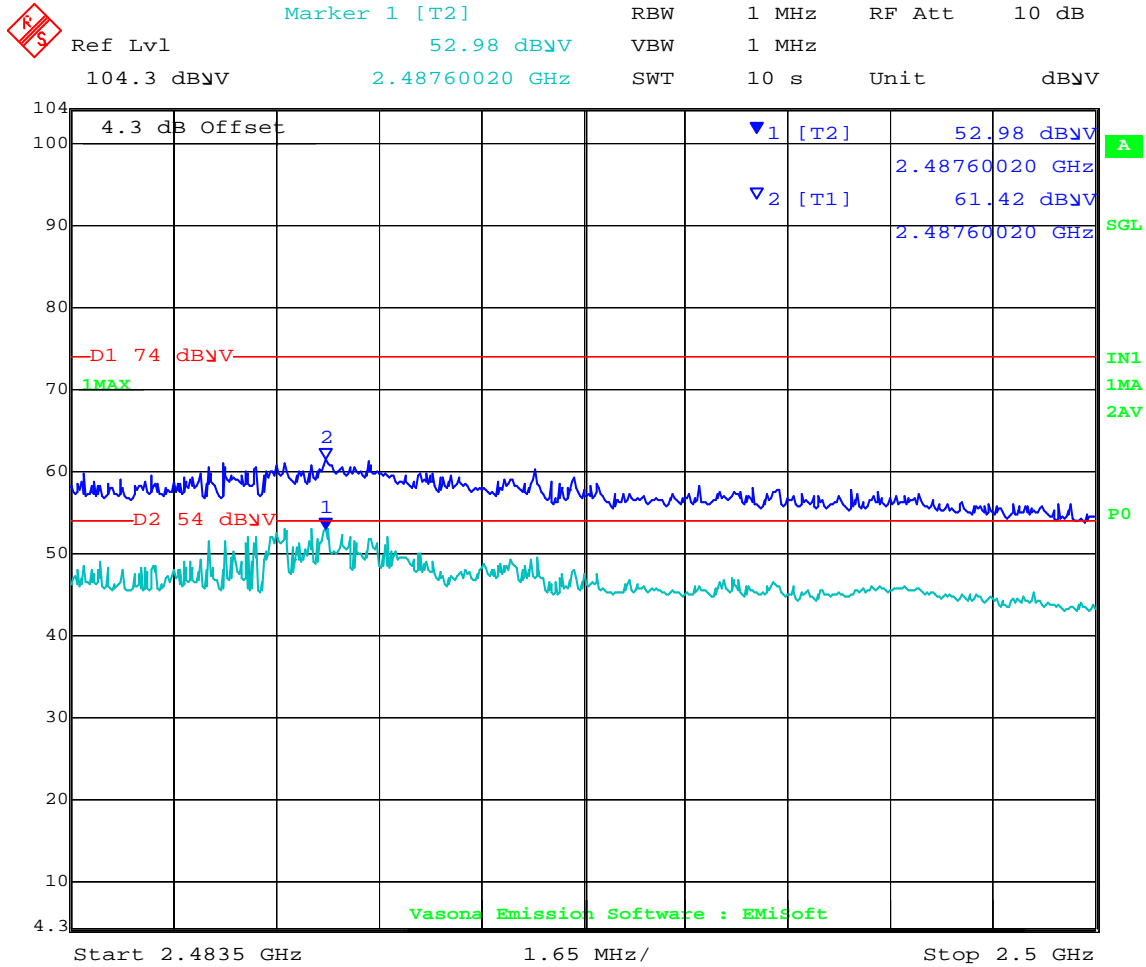


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|--------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2463.026 | 75.06 | 8.98 | 32.38 | 116.42 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 17.5 | | | 61.42 | Formal Peak | V | | | 74 | -12.58 | Pass | Band-edge |
| 2483.5 | | | | 52.98 | Formal Average | V | | | 54 | -1.02 | Pass | Band-edge |
| 4924.033 | 58.2 | 4.55 | -9.25 | 53.51 | Peak Max | V | 151 | 1 | 74 | -20.49 | Pass | |
| 4924.033 | 56.53 | 4.55 | -9.25 | 51.83 | Average Max | H | 116 | 42 | 54 | -2.17 | Pass | |

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802.11b Legacy Band-edge 2483.5 MHz

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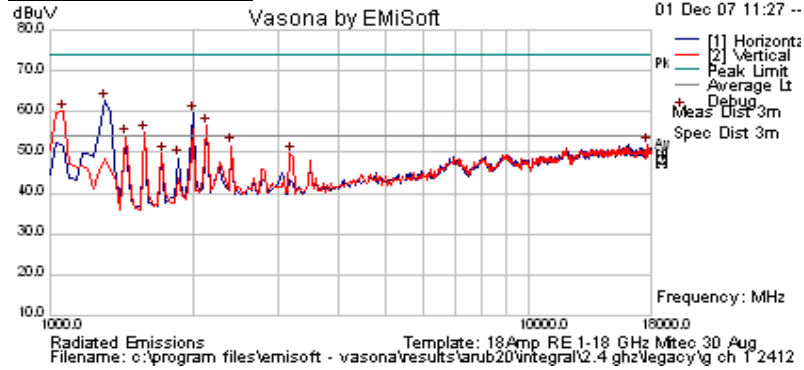
Title: Aruba AP-124,125 802.11a/b/g/n AP
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AP125: 2400 - 2483.5 MHz INTEGRAL Legacy Data Rates

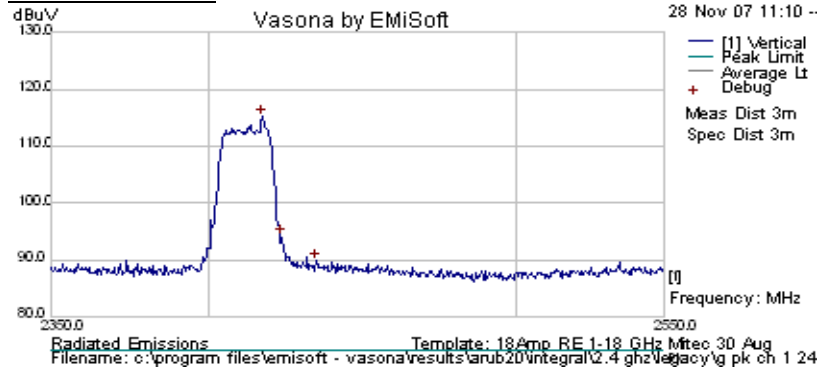
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 1 | 2412 | ART 17 | 99% | g 6 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

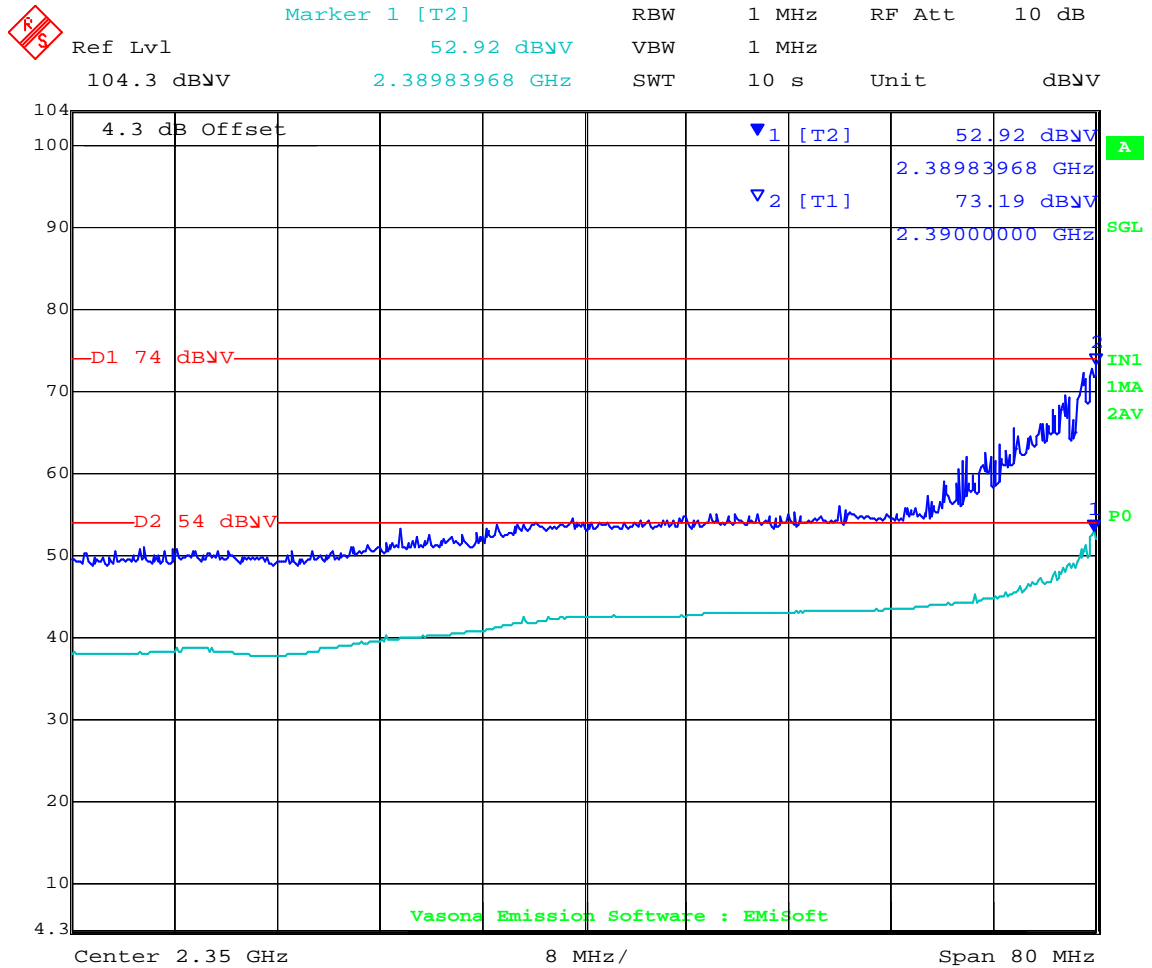


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|--------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2417.335 | 73.74 | 8.96 | 32.35 | 115.06 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2390.0 | ART Power Setting = 13.5 | | | 73.19 | Formal Peak | V | | | 74 | -0.81 | Pass | Band-edge |
| 2390.0 | ART Power Setting = 13.5 | | | 52.92 | Formal Average | V | | | 54 | -1.08 | Pass | Band-edge |

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802.11g Legacy Band-edge 2390 MHz

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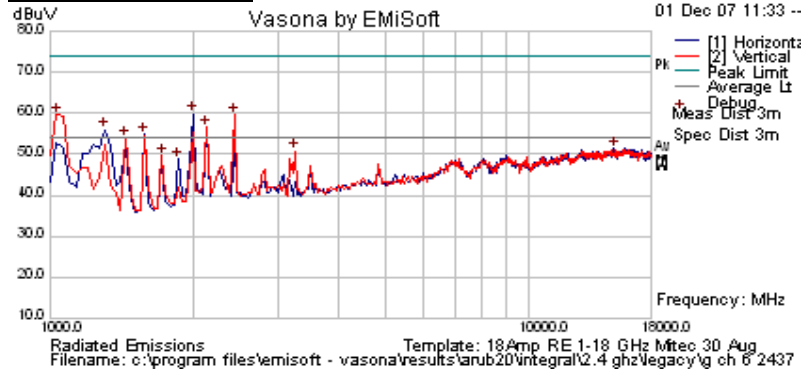


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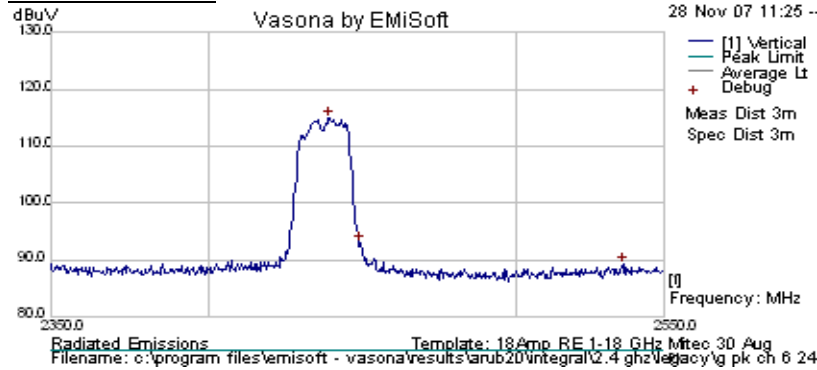
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 6 | 2437 | ART 17 | 99% | g 6 MBit/s 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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2438.978 | 73.44 | 8.97 | 32.37 | 114.78 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |

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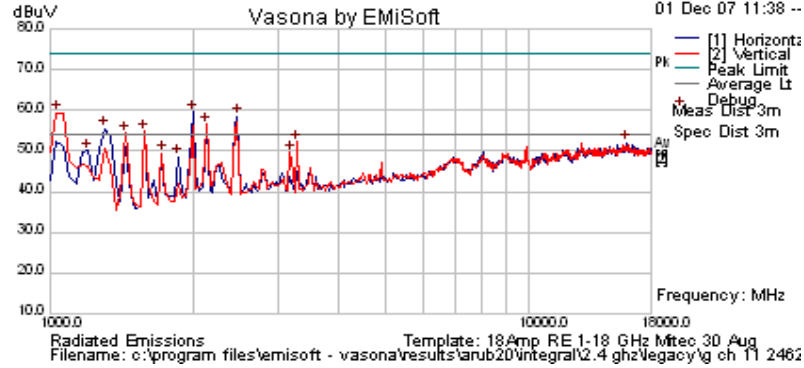


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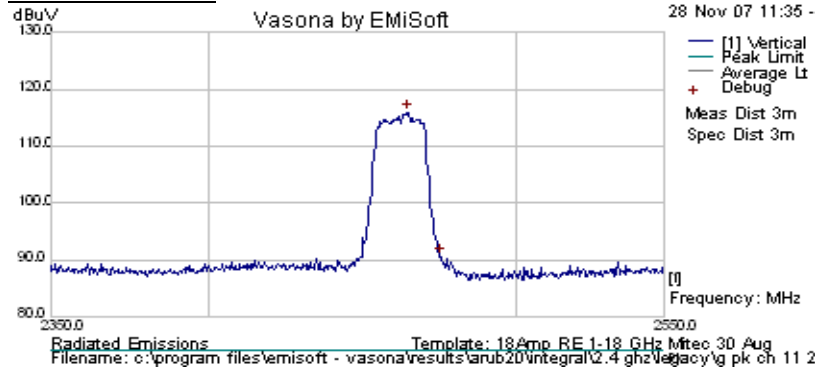
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 11 | 2462 | ART 17 | 99% | g 6 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

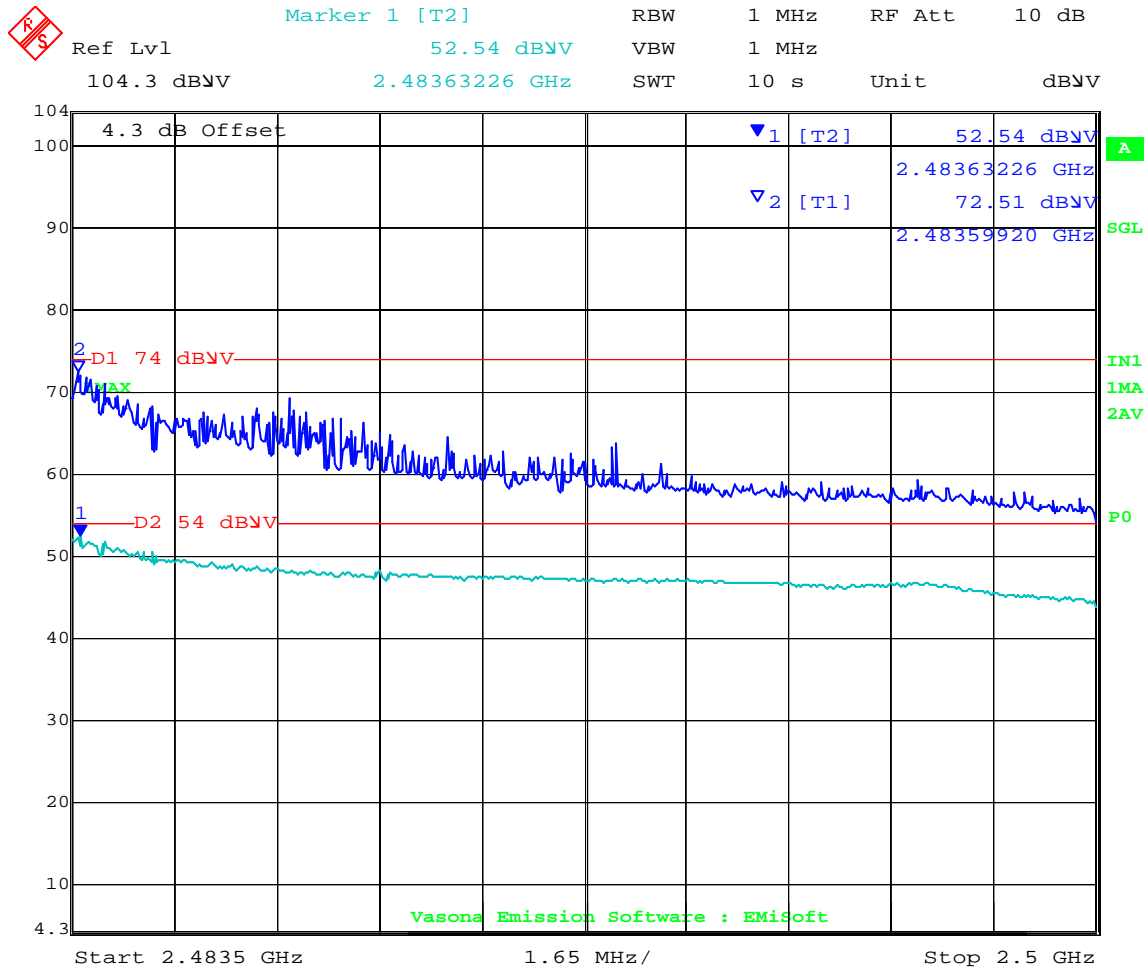


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|--------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2464.629 | 74.58 | 8.98 | 32.38 | 115.95 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 12.5 | | | 72.51 | Formal Peak | V | | | 74 | -1.49 | Pass | Band-edge |
| 2483.5 | ART Power Setting = 12.5 | | | 52.54 | Formal Average | V | | | 54 | -1.46 | Pass | Band-edge |

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802.11g Legacy Band-edge 2483.5 MHz

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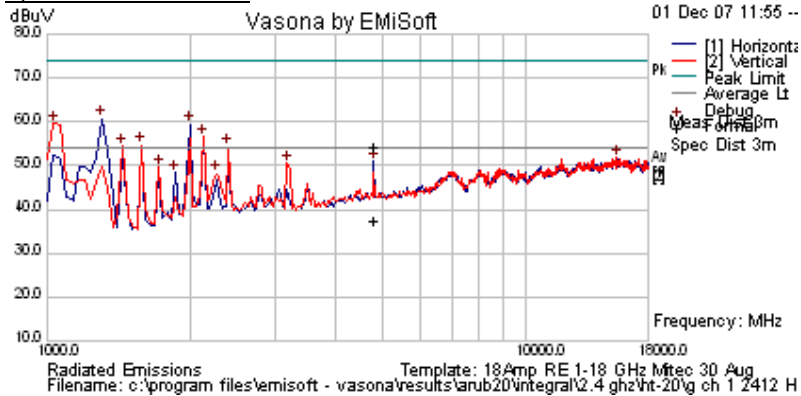


AP125: 2400 - 2483.5 MHz INTEGRAL HT-20 Data Rates

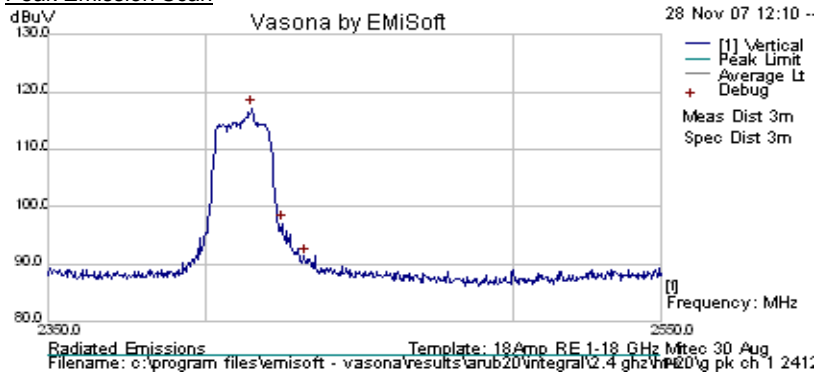
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 1 | 2412 | ART 17 | 99% | g 6.5 MCS HT-20 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

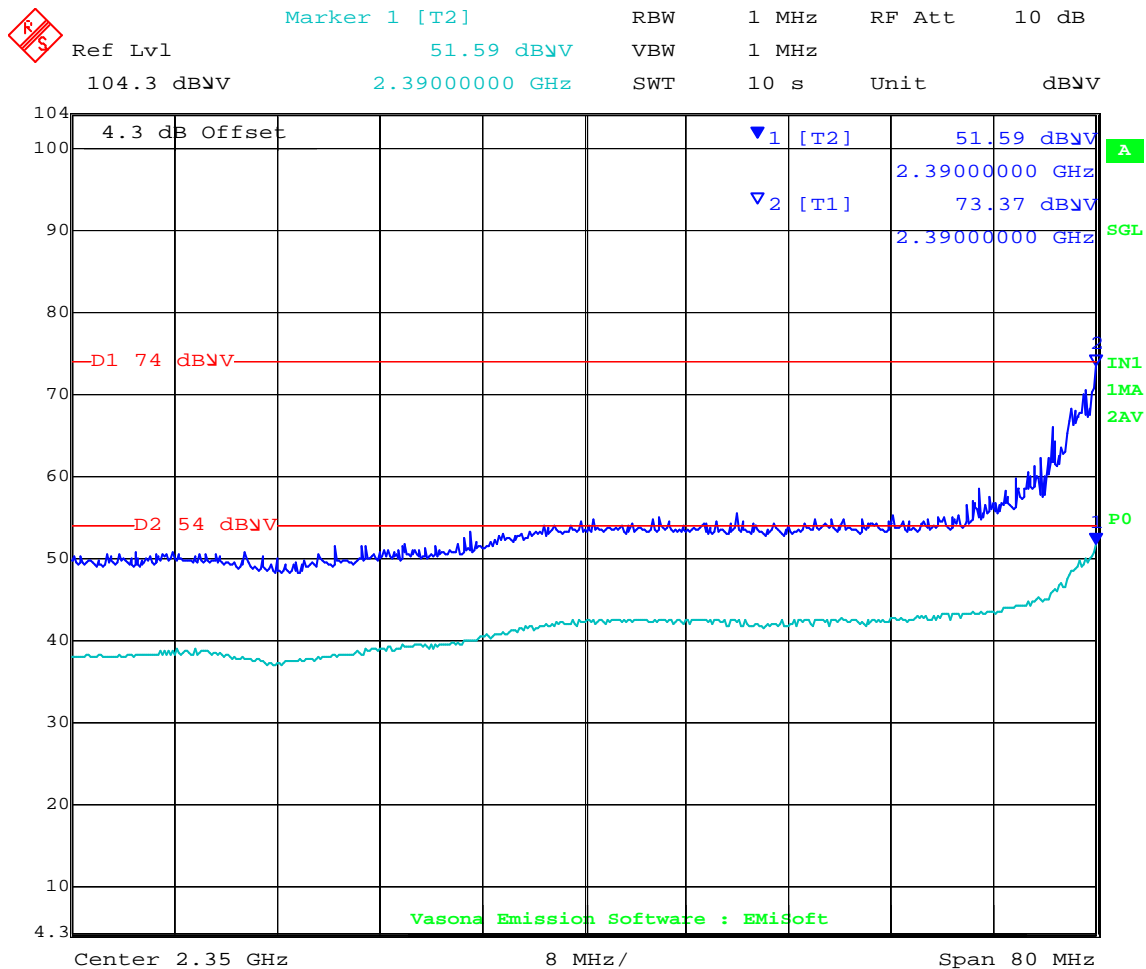


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|--------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2414.93 | 75.87 | 8.96 | 32.35 | 117.18 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2390.0 | ART Power Setting = 12.0 | | | 73.37 | Formal Peak | V | | | 74 | -0.63 | Pass | Band-edge |
| 2390.0 | | | | 5159 | Formal Average | V | | | 54 | -2.41 | Pass | Band-edge |
| 4827.906 | 57.03 | 4.47 | -9.19 | 52.31 | Peak Max | V | 98 | 225 | 74 | -21.69 | Pass | |
| 4827.906 | 40.25 | 4.47 | -9.19 | 35.53 | Average Max | V | 98 | 225 | 54 | -18.47 | Pass | |
| 3180.361 | 58.69 | 3.46 | -11.63 | 50.52 | Peak [Scan] | V | 100 | 0 | 54 | -3.48 | Pass | |

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Title: Aruba AP-124,125 802.11a/b/g/n AP
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Date: 1.DEC.2007 13:25:30

802.11n HT--20 Band-edge 2390 MHz

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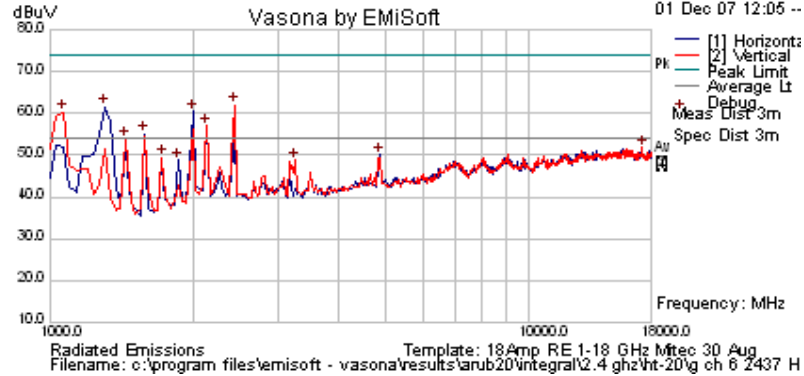


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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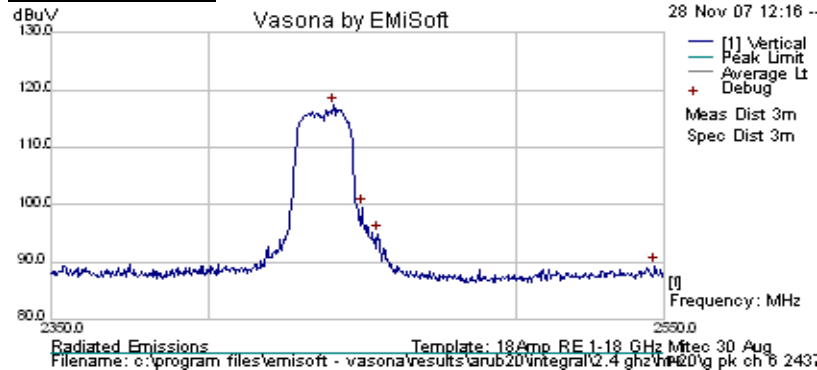
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 6 | 2437 | ART 17 | 99% | g 6.5 MCS 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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2440.18 | 75.93 | 8.97 | 32.37 | 117.27 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |

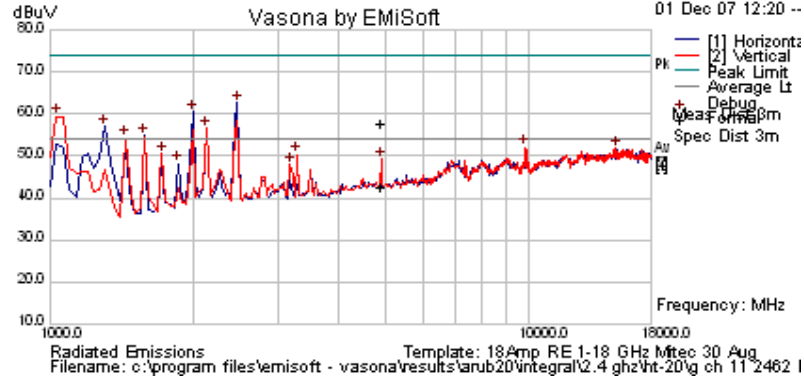
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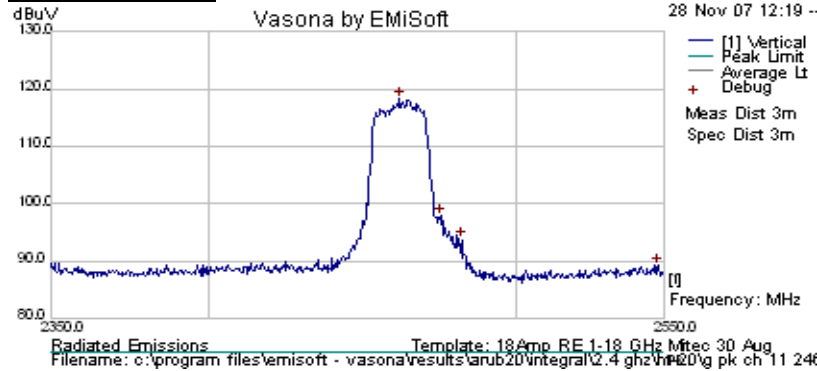
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 11 | 2462 | ART 17 | 99% | g 6.5 MCS HT-20 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

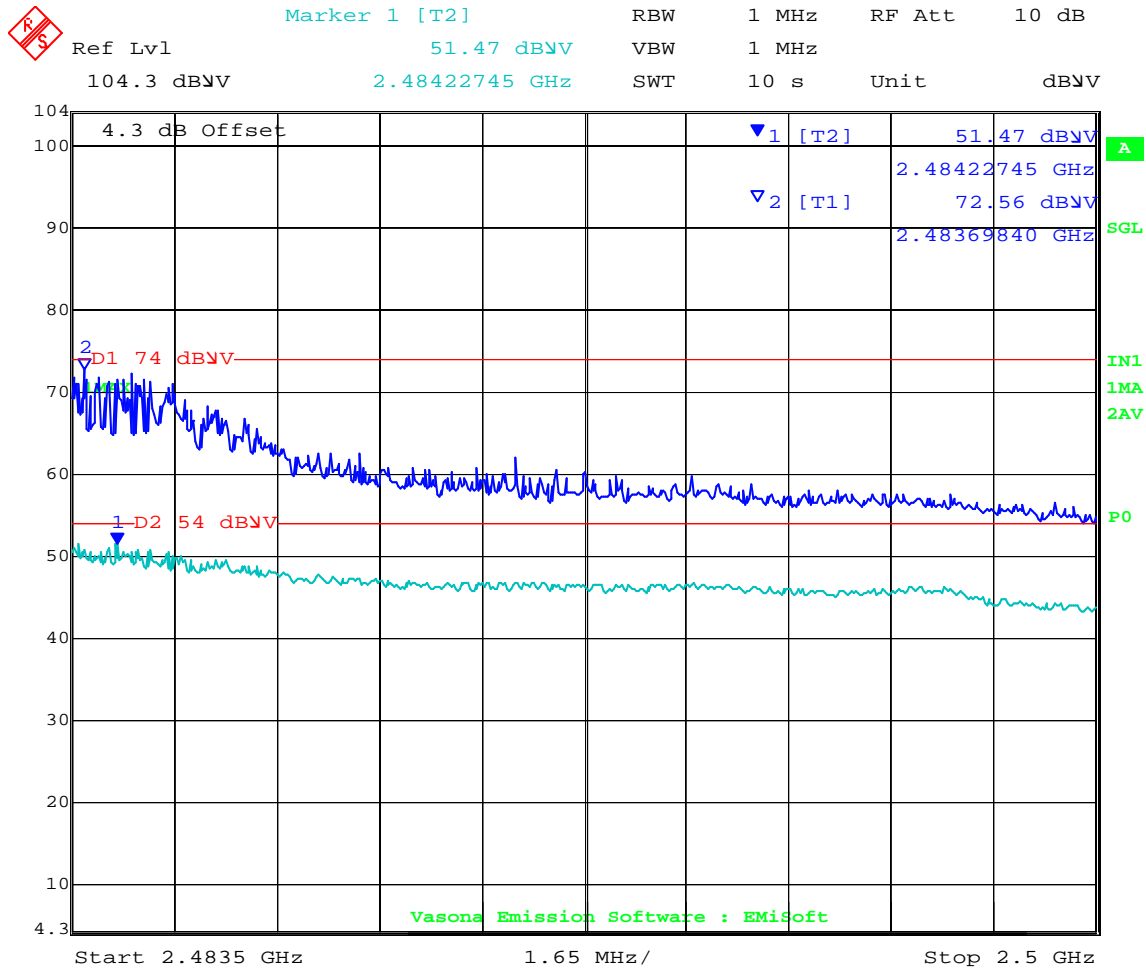


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|--------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2461.824 | 76.98 | 8.98 | 32.38 | 118.34 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 11.5 | | | 72.56 | Formal Peak | V | | | 74 | -1.44 | Pass | Band-edge |
| 2483.5 | | | | 51.47 | Formal Average | V | | | 54 | -2.53 | Pass | Band-edge |
| 4925.602 | 60.6 | 4.56 | -9.25 | 55.9 | Peak Max | V | 114 | 360 | 74 | -18.1 | Pass | |
| 4925.602 | 45.24 | 4.56 | -9.25 | 40.54 | Average Max | V | 114 | 360 | 54 | -13.46 | Pass | |
| 9823.647 | 47.16 | 6.39 | -1.39 | 52.16 | Peak [Scan] | V | 100 | 0 | 54 | -1.84 | Pass | NRB |
| 3282.565 | 58.39 | 3.51 | -11.56 | 50.34 | Peak [Scan] | V | 100 | 0 | 54 | -3.66 | Pass | NRB |

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Date: 1.DEC.2007 13:46:52

802.11n HT--20 Band-edge 2483.5 MHz

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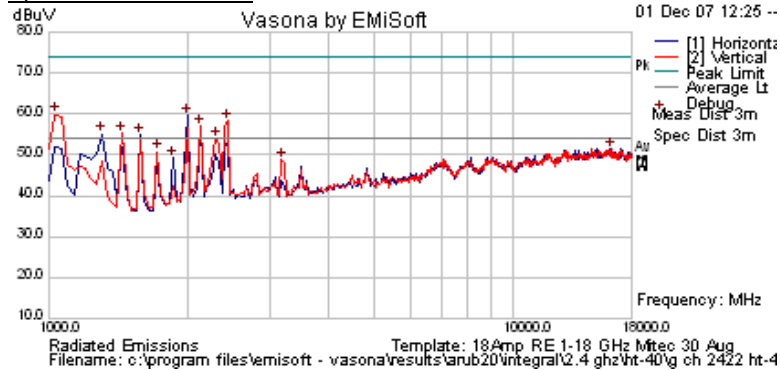
Title: Aruba AP-124,125 802.11a/b/g/n AP
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AP125: 2400 - 2483.5 MHz INTEGRAL HT-40 Data Rates

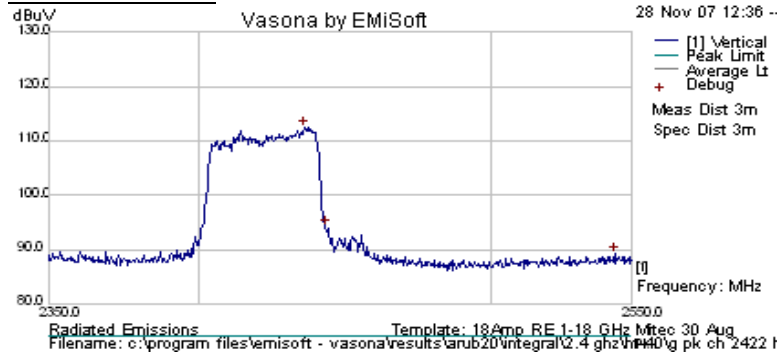
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| | 2422 | ART 17 | 99% | g 13.5 MCS HT-40 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

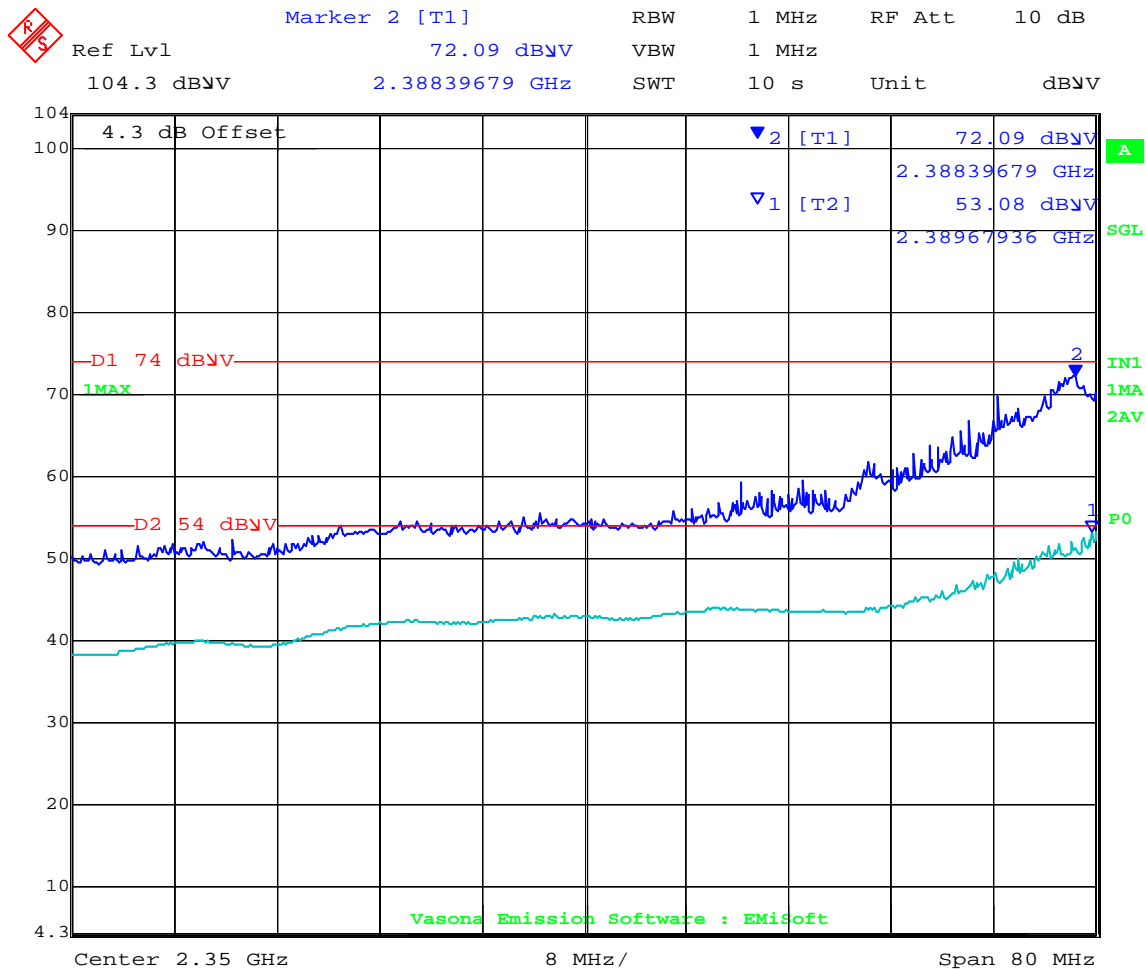


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|-------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2435.772 | 71.03 | 8.97 | 32.37 | 112.37 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | PK Emission |
| 2390.0 | ART Power Setting = 9.5 | | | 72.09 | Formal Peak | V | | | 74 | -1.91 | Pass | Band-edge |
| 2390.0 | | | | 53.08 | Formal Average | V | | | 54 | -0.92 | Pass | Band-edge |

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Date: 1.DEC.2007 13:32:14

802.11n HT--40 Band-edge 2390 MHz

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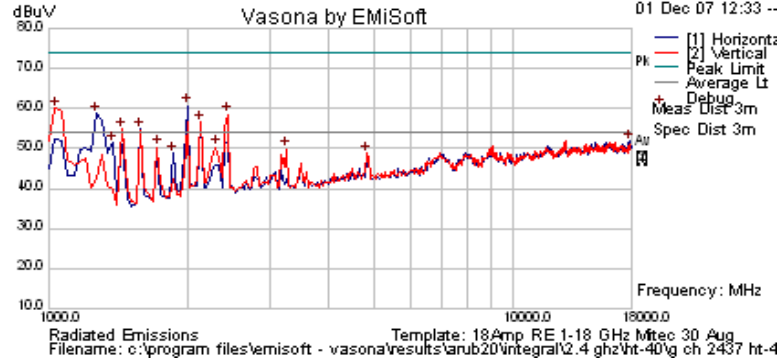


Title: Aruba AP-124,125 802.11a/b/g/n AP
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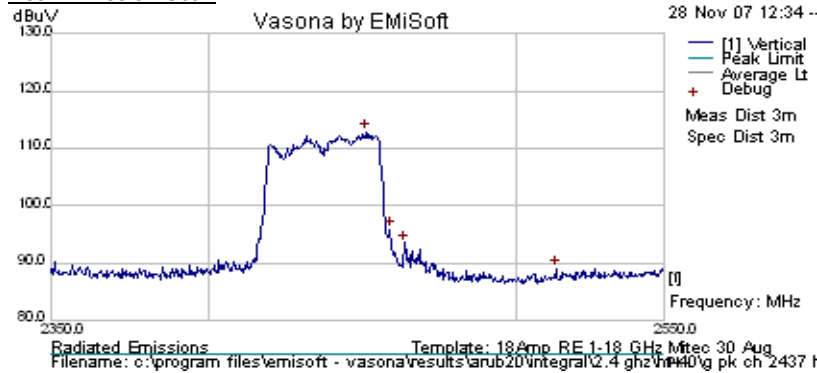
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| | 2437 | ART 17 | 99% | g 13.5 MCS 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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2450.601 | 71.51 | 8.98 | 32.37 | 112.86 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |

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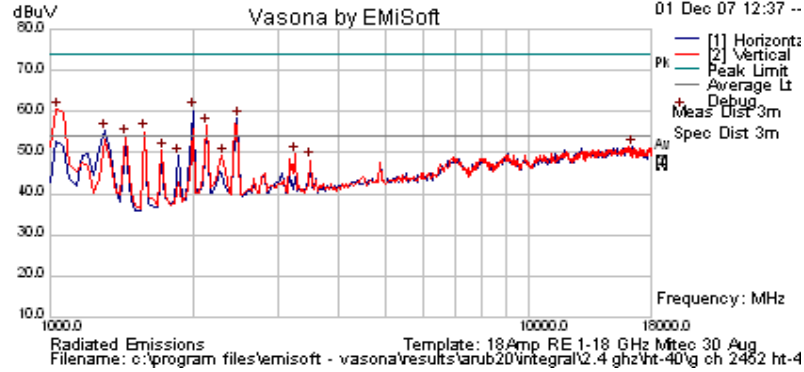


Title: Aruba AP-124,125 802.11a/b/g/n AP
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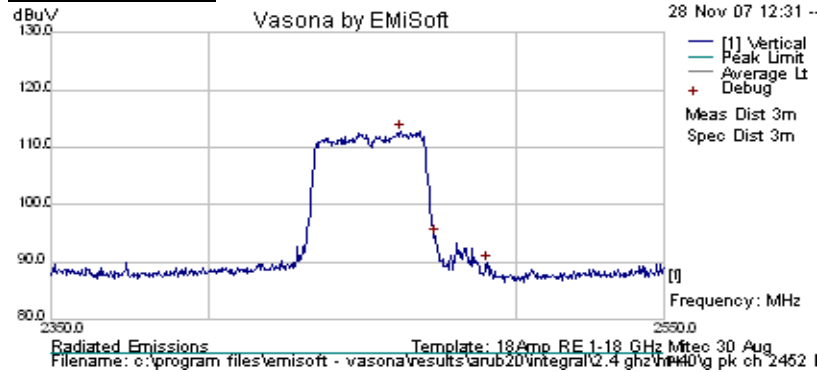
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| | 2452 | ART 17 | 99% | g 13.5 MCS HT-40 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

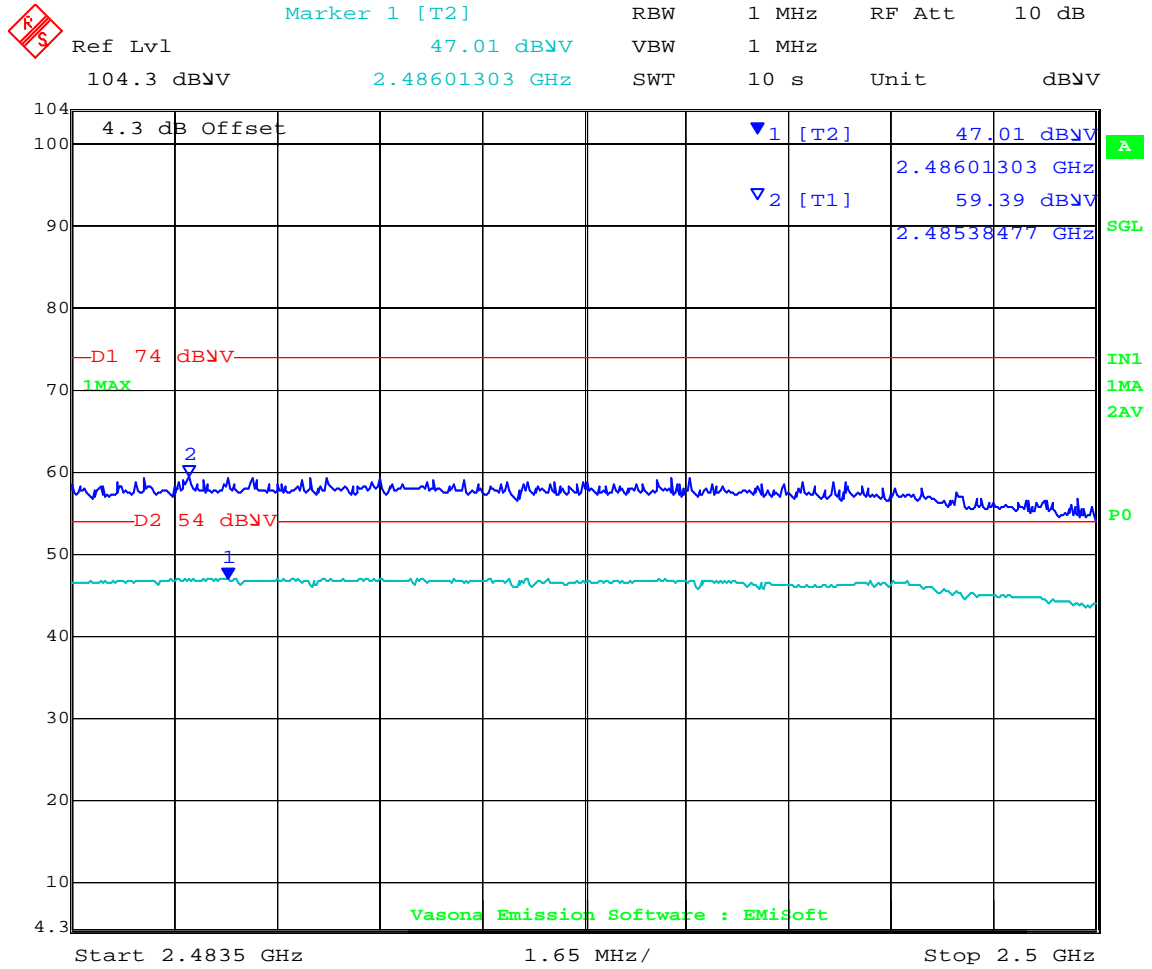


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|-------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2462.224 | 71.4 | 8.98 | 32.38 | 112.77 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 9.5 | | | 59.39 | Formal Peak | V | | | 74 | -14.61 | Pass | Band-edge |
| 2483.5 | | | | 47.01 | Formal Average | V | | | 54 | -6.99 | Pass | Band-edge |

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Date: 1.DEC.2007 13:40:35

802.11n HT--40 Band-edge 2483.5 MHz

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**ARUB20 AP-125 (ANT-INTEGRAL 5.8 GHz)
 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 (5460 5150 5745 MHz)BE | 17 | 14.05 | 13.91 | 15.12 | 19.97 |
| HT-20 (5460 5150 5745 MHz)BE | 17 | 13.95 | 13.75 | 15.00 | 19.98 |
| HT-40 (5150 5190 5755 MHz)BE | 17 | 13.94 | 13.67 | 14.82 | 19.84 |
| Legacy a (5745MHz)SE | 14 | 11.27 | 11.10 | 12.03 | 17.02 |
| Legacy a (5785 MHz)SE | 14 | 10.78 | 10.62 | 11.56 | 16.62 |
| Legacy a (5825 MHz)SE | 14 | 10.70 | 10.54 | 11.02 | 16.39 |
| HT-20 (5745 MHz)SE | 13.5 | 10.58 | 10.38 | 11.30 | 16.45 |
| HT-20 (5785 MHz)SE | 13.5 | 10.37 | 10.18 | 10.72 | 16.14 |
| HT-20 (5825 MHz)SE | 12.5 | 9.06 | 9.10 | 9.50 | 14.69 |
| HT-40 (5755 MHz)SE | 17 | 13.94 | 13.79 | 14.69 | 19.84 |
| HT-40 (5785 MHz)SE | 17 | 13.62 | 13.90 | 14.64 | 19.60 |
| HT-40 (5815 MHz)SE | 17 | 13.30 | 14.00 | 14.12 | 19.66 |

Note BE = Band-edge, SE – Spurious emissions

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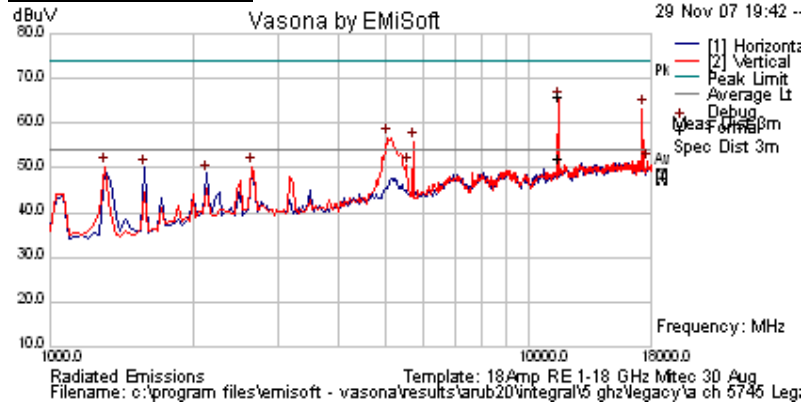


AP125: 5725-5850 MHz INTEGRAL Legacy Data Rates

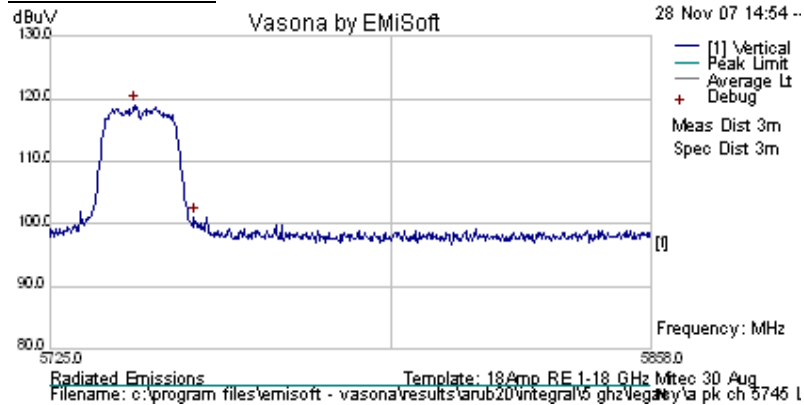
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 149 | 5745 | ART 14 | 99% | a 6 Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

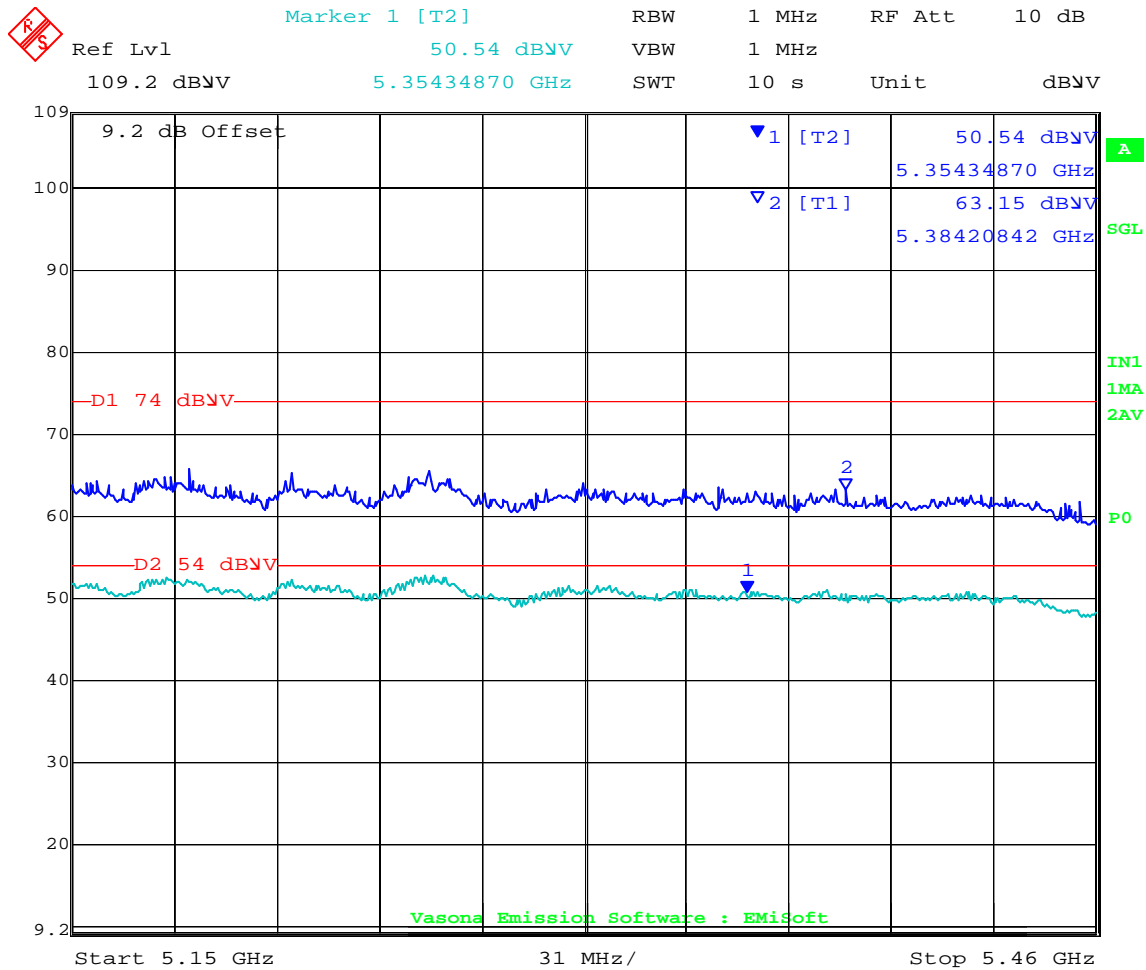


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|-------|------------|------------------|-------|--------|----------|------------|-----------|------------|-------------|
| 5743.657 | 73.19 | 10.75 | 35.1 | 119.05 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 5460 | ART Power Setting = 17 | | | 63.15 | Formal Peak | V | | | 74 | -10.85 | Pass | Band-edge |
| 5460 | | | | 50.54 | Formal Average | V | | | 54 | -3.46 | Pass | Band-edge |
| 5150 | | | | 63.4 | Formal Peak | V | | | 74 | -10.6 | Pass | Band-edge |
| 5150 | | | | 51.60 | Formal Average | V | | | 54 | -2.4 | Pass | Band-edge |
| 11495.79 | | | | 59 | 6.79 | -1.72 | 64.08 | Peak Max | V | 98 | 79 | 74 |
| 11495.79 | 44.95 | 6.79 | -1.72 | 50.03 | Average Max | V | 98 | 79 | 54 | -3.97 | Pass | |
| 17625.25 | 43.06 | 8.77 | -0.38 | 51.45 | Peak [Scan] | V | 100 | 0 | 99.05 | -47.6 | Pass | NRB |

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Date: 1.DEC.2007 14:02:47

802.11a Legacy Band-edge 5150, 5460 MHz

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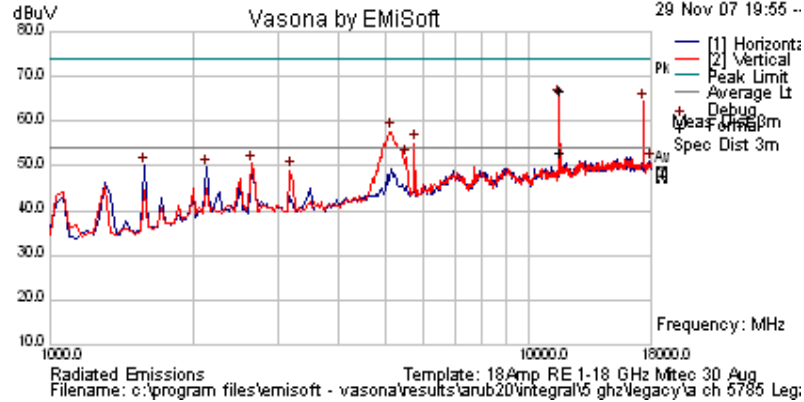


Title: Aruba AP-124,125 802.11a/b/g/n AP
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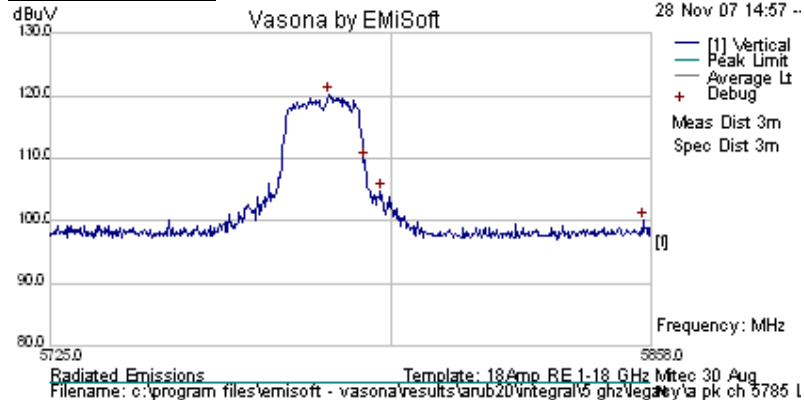
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 157 | 5785 | ART 14 | 99% | a 6 Legacy | 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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5786.303 | 74.24 | 10.78 | 35.13 | 120.15 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11574.43 | 59.52 | 6.81 | -1.57 | 64.76 | Peak Max | V | 98 | 79 | 74 | -9.24 | Pass | |
| 11574.43 | 45.78 | 6.81 | -1.57 | 51.02 | Average Max | V | 98 | 79 | 54 | -2.98 | Pass | |
| 17352.71 | 56.41 | 8.68 | -0.57 | 64.53 | Peak [Scan] | V | 100 | 0 | 100.15 | -35.62 | Pass | NRB |

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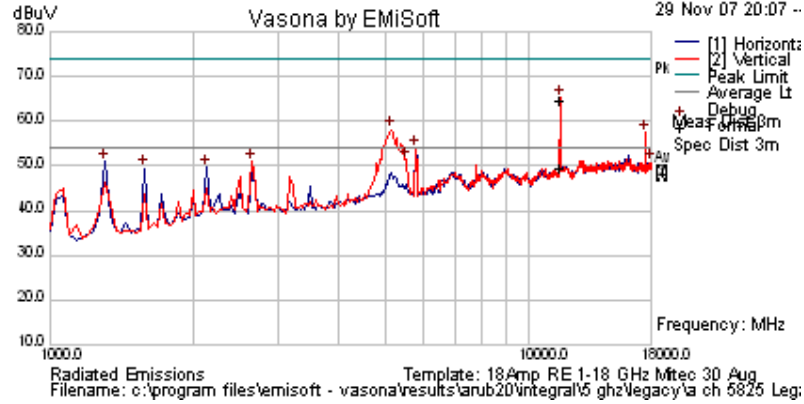


Title: Aruba AP-124,125 802.11a/b/g/n AP
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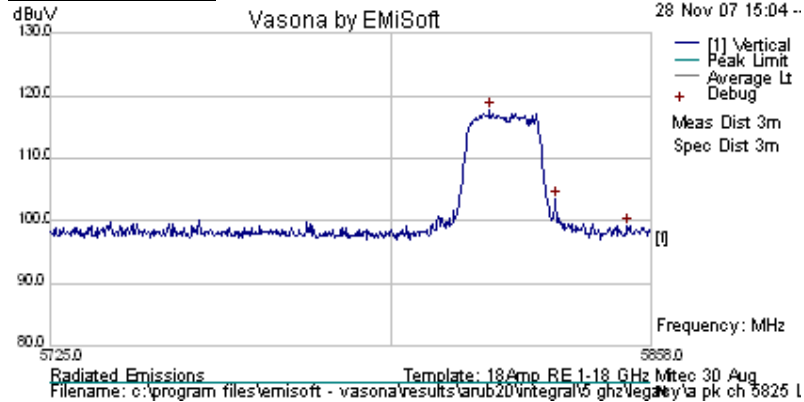
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 165 | 5825 | ART 14 | 99% | a 6 Legacy | 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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5822.018 | 71.72 | 10.8 | 35.16 | 117.68 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11645.65 | 57.42 | 6.83 | -1.43 | 62.81 | Peak Max | V | 98 | 248 | 74 | -11.19 | Pass | |
| 11645.65 | 41.99 | 6.83 | -1.43 | 47.39 | Average Max | V | 98 | 248 | 54 | -6.61 | Pass | |
| 17488.98 | 49.27 | 8.76 | -0.62 | 57.42 | Peak [Scan] | V | 100 | 0 | 97.68 | -40.26 | Pass | NRB |

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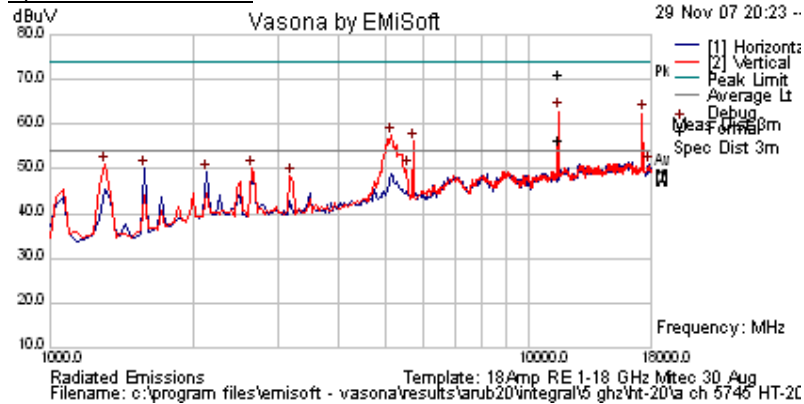
AP125: 5725-5850 MHz INTEGRAL HT-20 Data Rates

| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 149 | 5745 | ART 13.5 | 99% | a 6.5 HT-20 | Yes |

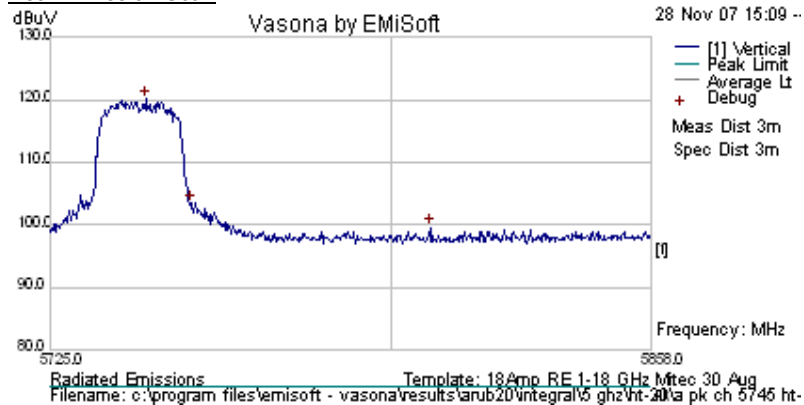
Three antennas operating simultaneously

NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

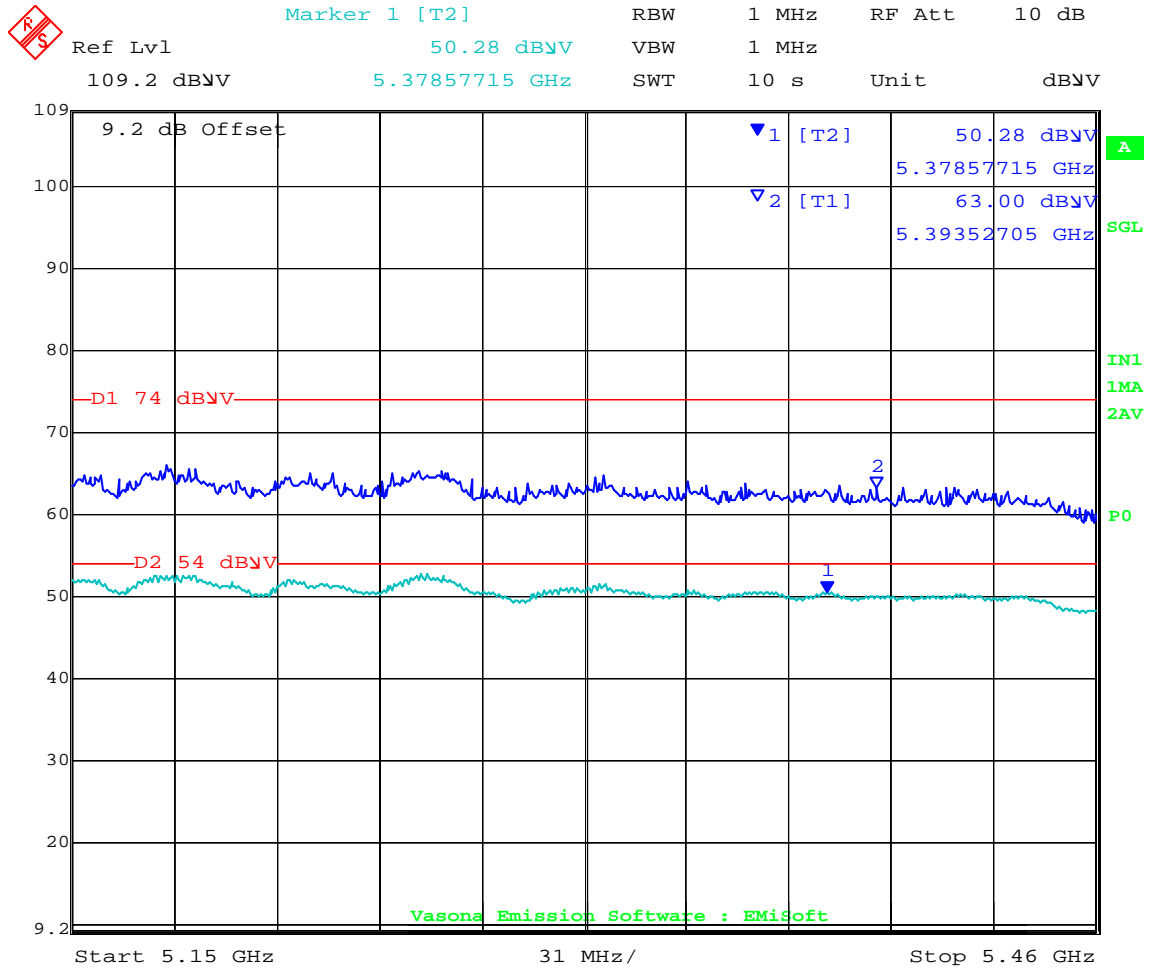


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5746.056 | 74.28 | 10.76 | 35.1 | 120.13 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 5460 | ART Power Setting = 17 | | | 63.00 | Formal Peak | V | | | 74 | -11.00 | Pass | Band-edge |
| 5460 | | | | 50.28 | Formal Average | V | | | 54 | -3.72 | Pass | Band-edge |
| 5150 | | | | 63.90 | Formal Peak | V | | | 74 | -10.1 | Pass | Band-edge |
| 5150 | | | | 52.00 | Formal Average | V | | | 54 | -2.00 | Pass | Band-edge |
| 11493.47 | 63.9 | 6.79 | -1.72 | 68.97 | Peak Max | V | 105 | 175 | 74 | -5.03 | Pass | |
| 11493.42 | 48.76 | 6.79 | -1.72 | 53.83 | Average Max | V | 105 | 175 | 54 | -0.17 | Pass | |
| 17250.5 | 54.34 | 8.62 | -0.48 | 62.48 | Peak [Scan] | V | 100 | 0 | 100.13 | -37.65 | Pass | NRB |

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802.11a HT-20 Band-edge 5150, 5460 MHz

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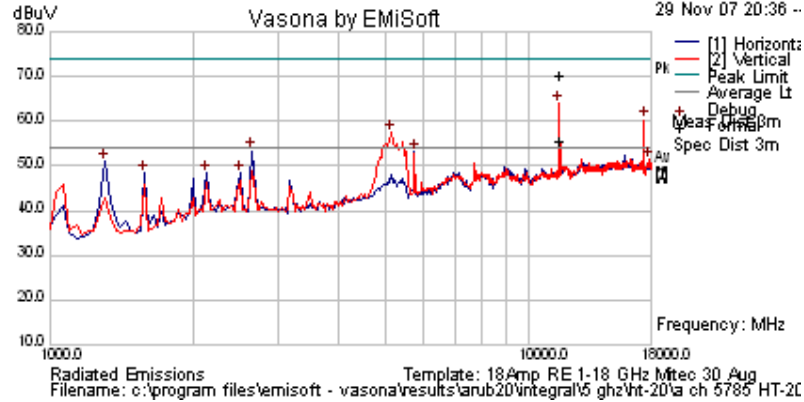


Title: Aruba AP-124,125 802.11a/b/g/n AP
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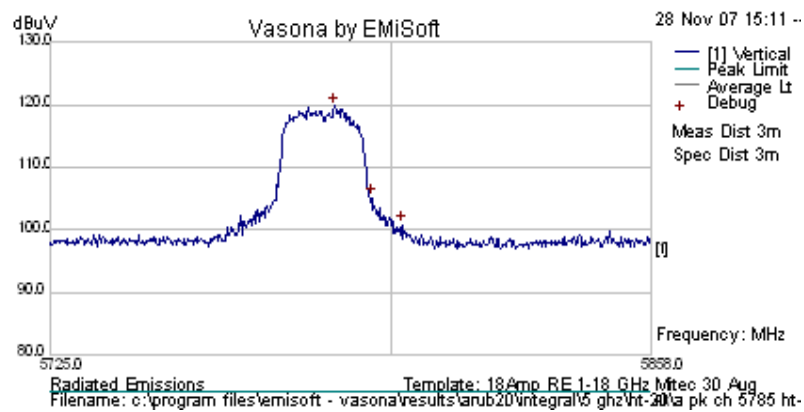
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 157 | 5785 | ART 13.5 | 99% | a 6.5 HT-20 | 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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5787.635 | 73.86 | 10.78 | 35.13 | 119.77 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11571.42 | 62.83 | 6.81 | -1.58 | 68.06 | Peak Max | V | 140 | 68 | 74 | -5.94 | Pass | |
| 11571.42 | 48.24 | 6.81 | -1.58 | 53.47 | Average Max | V | 140 | 68 | 54 | -0.53 | Pass | |
| 17386.77 | 52.27 | 8.7 | -0.64 | 60.33 | Peak [Scan] | V | 100 | 0 | 99.77 | -39.44 | pASS | NRB |

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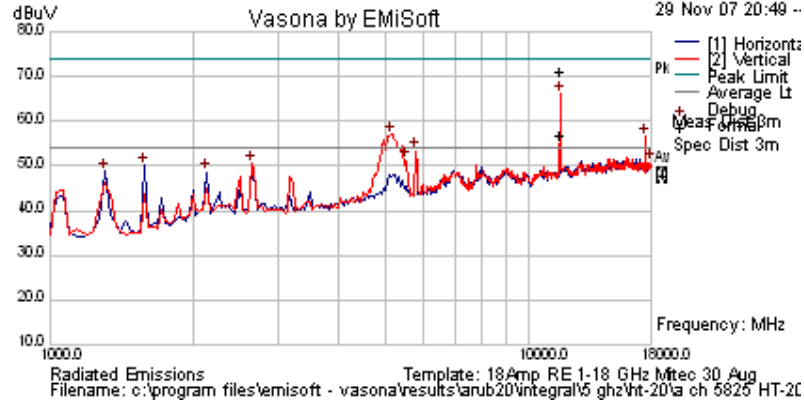


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
Serial #: ARUB20-A2 Rev A
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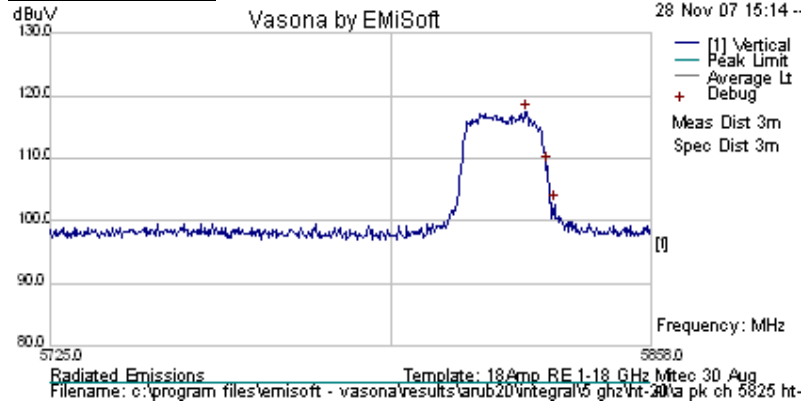
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 165 | 5825 | ART 12.5 | 99% | a 6.5 HT-20 | 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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5830.014 | 71.29 | 10.8 | 35.17 | 117.26 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11653.34 | 62.83 | 6.83 | -1.45 | 68.2 | Peak Max | V | 120 | 68 | 74 | -5.8 | Pass | |
| 11653.34 | 47.99 | 6.83 | -1.45 | 53.36 | Average Max | V | 120 | 68 | 54 | -0.64 | Pass | |
| 17488.98 | 48.49 | 8.76 | -0.62 | 56.63 | Peak [Scan] | V | 100 | 0 | 97.26 | -40.63 | Pass | NRB |

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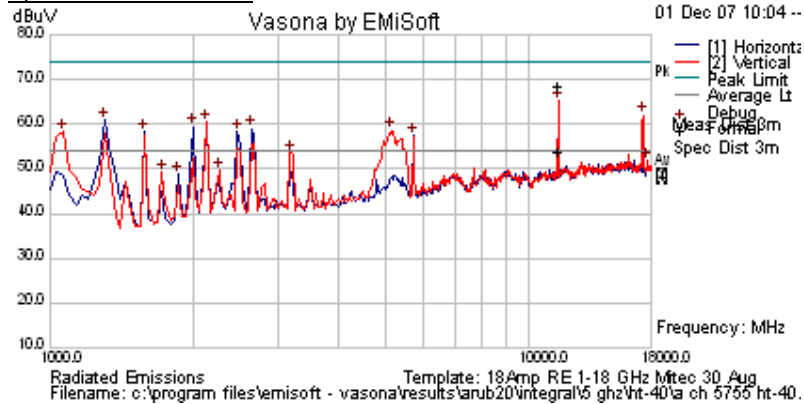


AP125: 5725-5850 MHz INTEGRAL HT-40 Data Rates

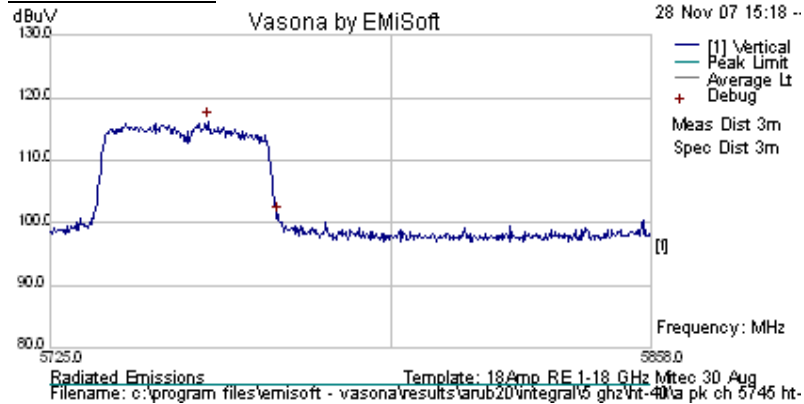
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| | 5755 | ART 17 | 99% | a 13.5 HT-40 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

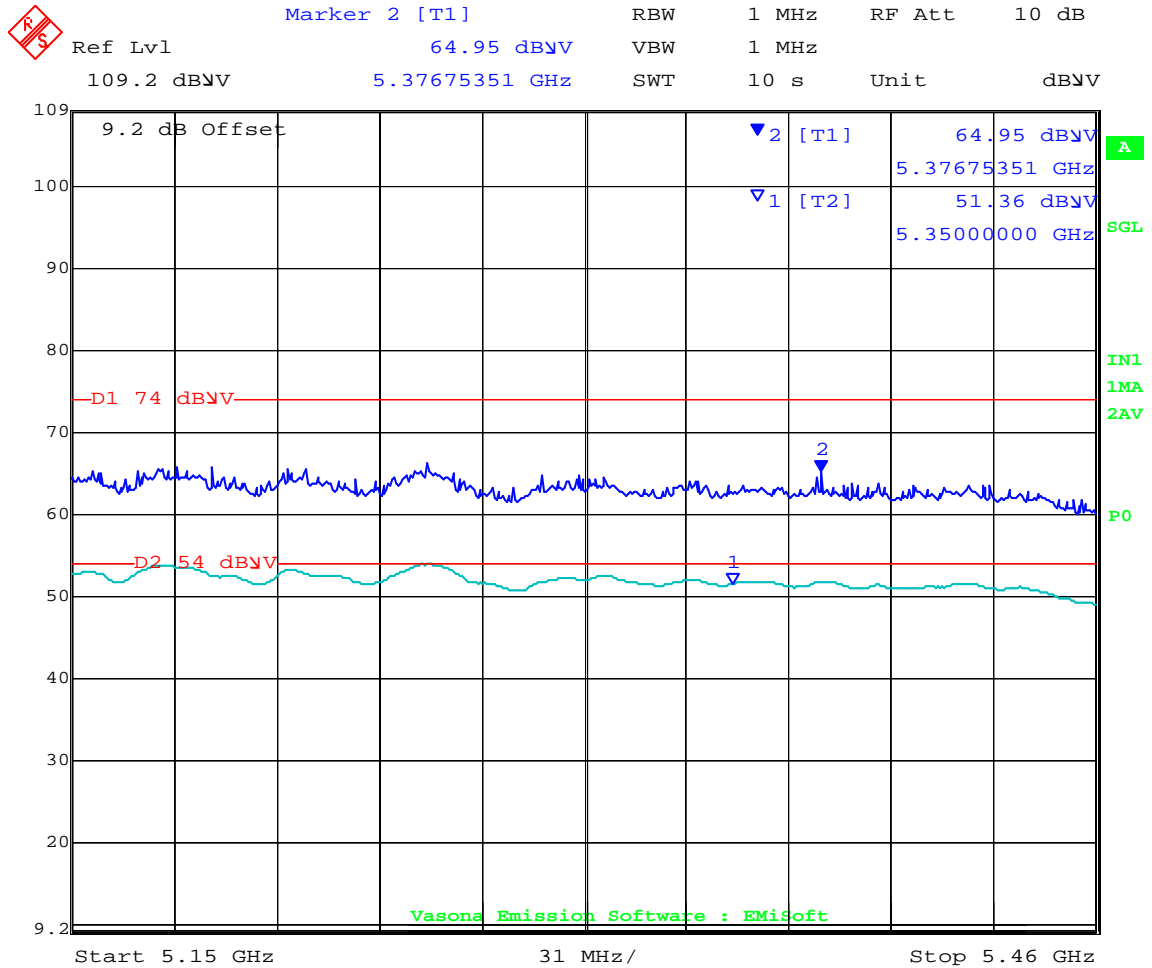


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|-------|------------|------------------|-------|--------|----------|------------|-----------|------------|-------------|
| 5759.649 | 70.37 | 10.76 | 35.11 | 116.24 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 5460.00 | ART Power Setting = 17 | | | 64.95 | Formal Peak | V | | | 74 | -9.05 | Pass | Band-edge |
| 5460.00 | | | | 51.36 | Formal Average | V | | | 54 | -2.64 | Pass | Band-edge |
| 5150.00 | | | | 64.80 | Formal Peak | V | | | 74 | -9.20 | Pass | Band-edge |
| 5150.00 | | | | 53.10 | Formal Average | V | | | 54 | -0.90 | Pass | Band-edge |
| 11515.13 | | | | 61.29 | 6.79 | -1.71 | 66.38 | Peak Max | V | 106 | 64 | 74 |
| 11515.13 | 46.85 | 6.79 | -1.71 | 51.93 | Average Max | V | 106 | 64 | 54 | -2.07 | Pass | |
| 17284.57 | 54.1 | 8.64 | -0.64 | 62.11 | Peak [Scan] | V | 100 | 0 | 96.24 | -34.13 | Pass | NRB |

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Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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Date: 1.DEC.2007 14:06:56

802.11a HT-40 Band-edge 5150, 5460 MHz

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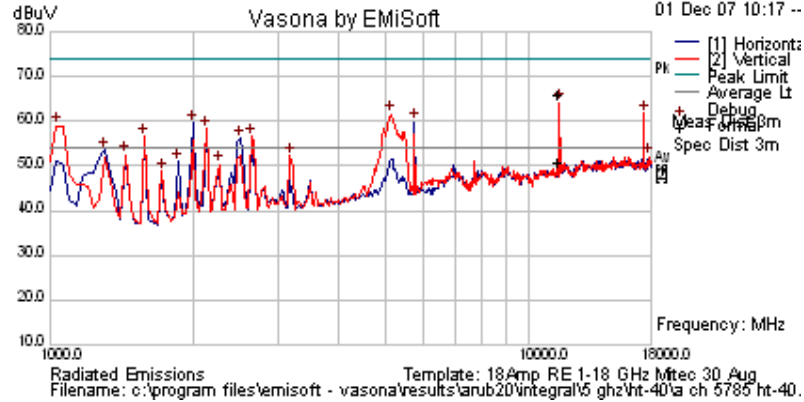


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
Serial #: ARUB20-A2 Rev A
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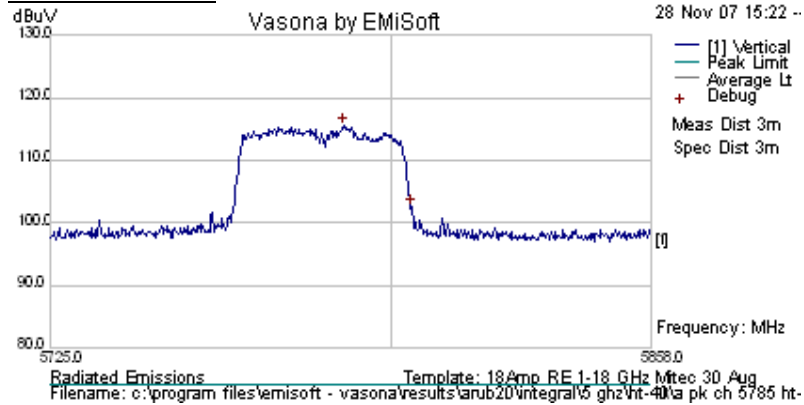
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 157 | 5785 | ART 17 | 99% | 13.5 HT-40 | 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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5789.768 | 69.49 | 10.78 | 35.14 | 115.4 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11565.63 | 58.6 | 6.81 | -1.6 | 63.81 | Peak Max | V | 102 | 76 | 74 | -10.19 | Pass | |
| 11565.63 | 43.45 | 6.81 | -1.6 | 48.66 | Average Max | V | 102 | 76 | 54 | -5.34 | Pass | |
| 17386.77 | 53.67 | 8.7 | -0.64 | 61.73 | Peak [Scan] | V | 100 | 0 | 95.40 | -33.67 | Pass | NRB |

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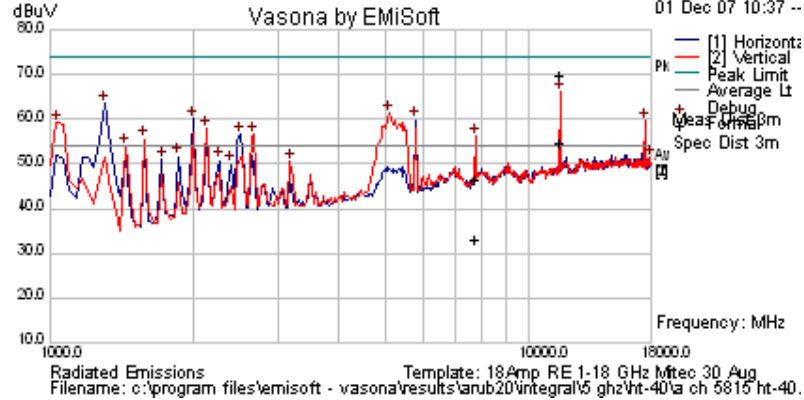


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
Serial #: ARUB20-A2 Rev A
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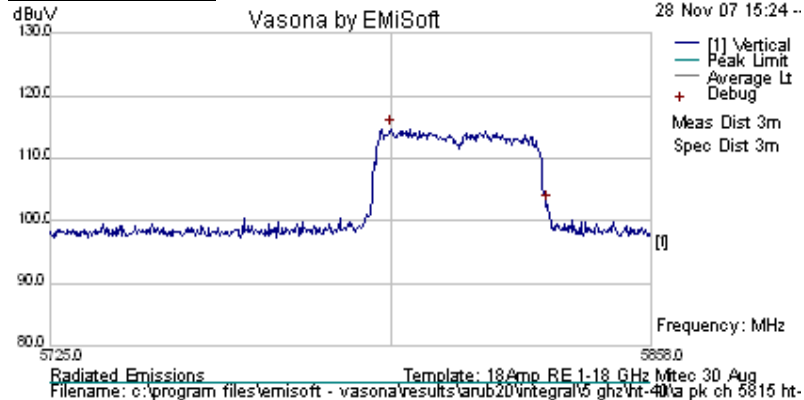
| AP125 - INTEGRAL Test Configuration | | | | | |
|-------------------------------------|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| | 5815 | ART 17 | 99% | 13.5 HT-40 | Yes |

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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5800.162 | 68.78 | 10.78 | 35.14 | 114.71 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Fundamental |
| 11625.7 | 62.55 | 6.82 | -1.38 | 67.99 | Peak Max | V | 103 | 111 | 74 | -6.01 | Pass | |
| 7753.351 | 52.47 | 5.54 | -2.25 | 55.76 | Peak | V | 141 | 74 | 74 | -18.24 | Pass | |
| 11625.7 | 47.01 | 6.82 | -1.38 | 52.45 | Average Max | V | 103 | 111 | 54 | -1.55 | Pass | |
| 7753.351 | 47.79 | 5.54 | -2.25 | 51.08 | Average Max | V | 141 | 74 | 54 | -2.92 | Pass | |
| 17454.91 | 51.47 | 8.74 | -0.56 | 59.65 | Peak [Scan] | V | 100 | 0 | 94.71 | -35.06 | Pass | NRB |

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ARUB20 AP-124 (ANT-7)
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 b (2390 2412 MHz)BE | 16 | 13.74 | 13.27 | 14.33 | 19.38 |
| Legacy g (2390 2412 MHz)BE | 11 | 8.93 | 8.71 | 8.91 | 14.37 |
| Legacy b (2483.5 2462 MHz)BE | 16 | 13.94 | 13.25 | 14.14 | 19.10 |
| Legacy g (2483.5 2462 MHz)BE | 7.5 | 5.51 | 5.27 | 5.75 | 10.71 |
| HT-20 (2390 2412 MHz)BE | 6.5 | 4.30 | 3.57 | 4.98 | 9.76 |
| HT-20 (2483.5 2462 MHz)BE | 10 | 7.49 | 7.02 | 7.71 | 12.63 |
| HT-40 (2483.5 2452 MHz)BE | 3 | 1.67 | .78 | 1.70 | 6.72 |
| HT-40 (2390 2422 MHz)BE | 7 | 5.60 | 4.74 | 5.90 | 10.88 |
| Legacy b (2412 MHz)SE | 19 | 16.92 | 16.52 | 17.40 | 22.68 |
| Legacy b (2437 MHz)SE | 19 | 16.80 | 16.32 | 17.02 | 21.59 |
| Legacy b (2462 MHz)SE | 19 | 17.00 | 16.46 | 17.47 | 22.39 |
| Legacy g (2412 MHz)SE | 17 | 15.19 | 14.19 | 15.52 | 20.37 |
| Legacy g (2437 MHz)SE | 17 | 14.56 | 14.32 | 14.97 | 20.40 |
| Legacy g (2462 MHz)SE | 17 | 14.84 | 14.68 | 15.46 | 21.27 |
| HT-20 (2412 MHz)SE | 19 | 16.96 | 16.51 | 17.40 | 22.40 |
| HT-20 (2437 MHz)SE | 19 | 16.73 | 16.23 | 17.06 | 22.36 |
| HT-20 (2462 MHz)SE | 19 | 16.93 | 16.80 | 17.26 | 22.35 |
| HT-40 (2422 MHz)SE | 19 | 17.30 | 16.75 | 17.39 | 22.68 |
| HT-40 (2437 MHz)SE | 19 | 17.11 | 16.53 | 17.36 | 22.30 |
| HT-40 (2452 MHz)SE | 19 | 16.91 | 16.42 | 17.80 | 22.25 |

Note BE = Band-edge, SE – Spurious emissions

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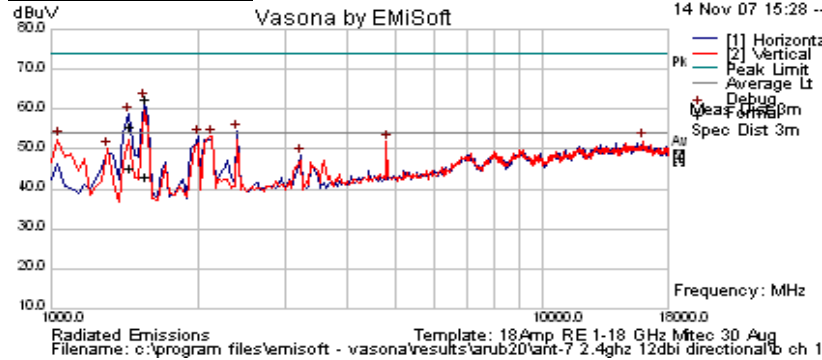


AP124: 2400 - 2483.5 MHz ANT-7 (12 dBi) Legacy Data Rates

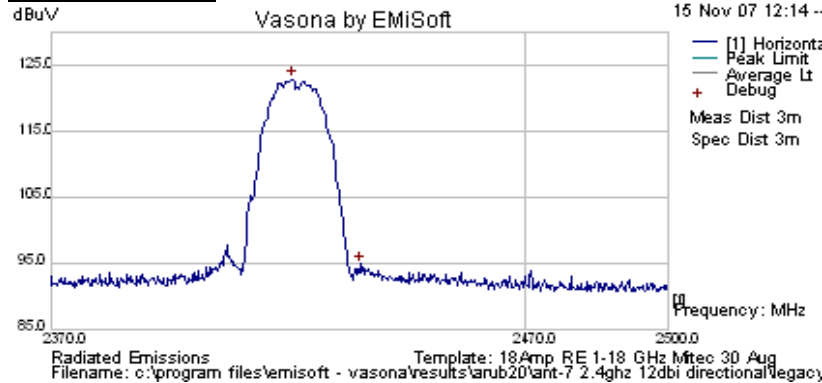
| AP124 - ANT-7 (12 dBi) Test Configuration | | | | | |
|---|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 1 | 2412 | ART 19 | 99% | B 1 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

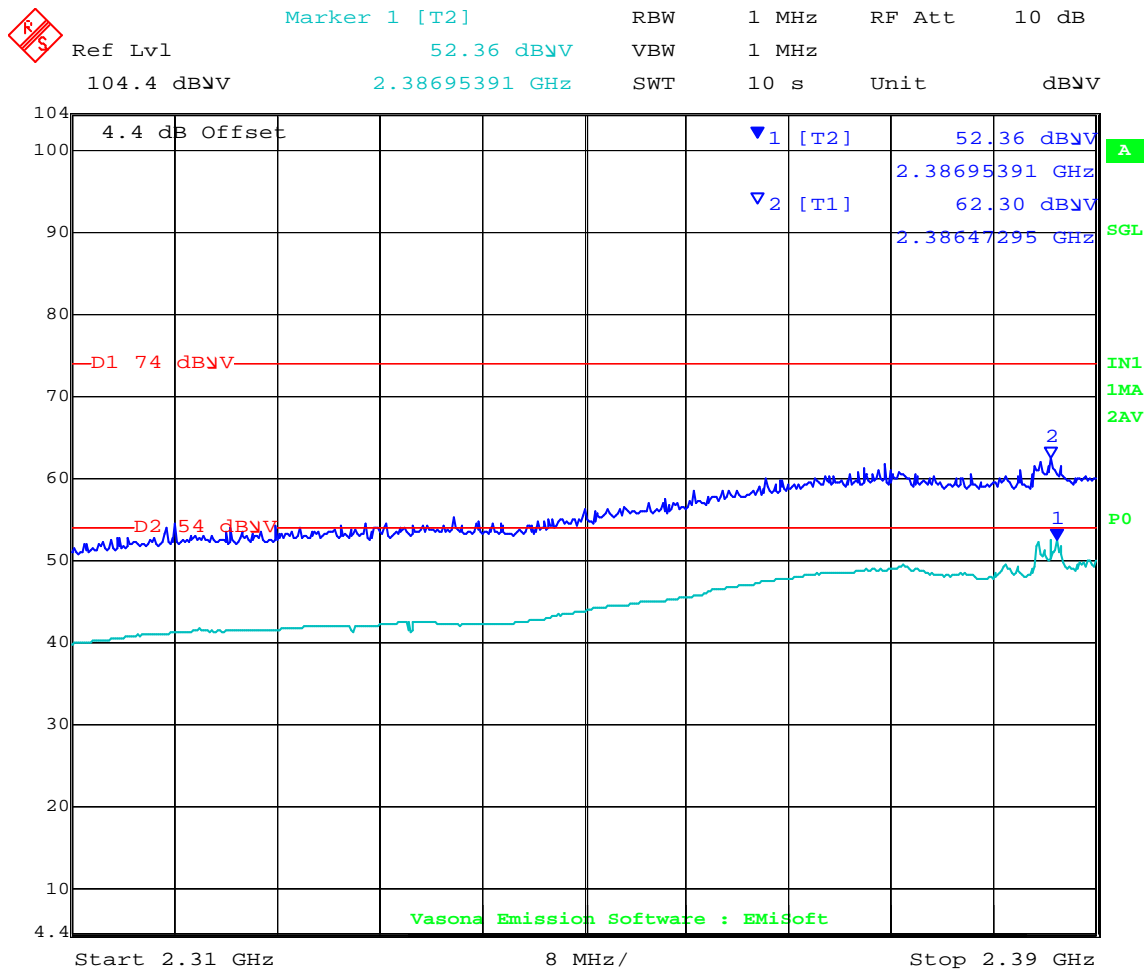


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2421.062 | 87.56 | 2.96 | 32.36 | 122.88 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2390.0 | ART Power Setting = 16 | | | 62.3 | Formal Peak | V | | | 74 | -11.7 | Pass | Band-edge |
| 2390.0 | | | | 52.36 | Formal Average | V | | | 54 | -1.64 | Pass | Band-edge |
| 1555.897 | 72.8 | 2.42 | -14.72 | 60.5 | Peak Max | V | 110 | 14 | 74 | -13.5 | Pass | |
| 1451.031 | 66.44 | 2.34 | -15.37 | 53.41 | Peak Max | V | 132 | 202 | 74 | -20.59 | Pass | |
| 1555.897 | 53.12 | 2.42 | -14.72 | 40.82 | Average Max | H | 137 | 22 | 54 | -13.18 | Pass | |
| 1451.031 | 56.29 | 2.34 | -15.37 | 43.27 | Average Max | H | 98 | 35 | 54 | -10.73 | Pass | |
| 2396.794 | 62.71 | 2.95 | -11.08 | 54.58 | Peak [Scan] | H | 100 | 0 | 102.88 | -48.30 | Pass | NRB |
| 2124.248 | 61.34 | 2.82 | -11.03 | 53.12 | Peak [Scan] | V | 100 | 0 | 102.88 | -49.76 | Pass | NRB |
| 1987.976 | 61.55 | 2.74 | -11.26 | 53.03 | Peak [Scan] | H | 100 | 0 | 102.88 | -49.85 | Pass | NRB |
| 3214.429 | 56.46 | 3.48 | -11.65 | 48.28 | Peak [Scan] | H | 100 | 0 | 102.88 | -54.60 | Pass | NRB |

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Date: 1.DEC.2007 18:39:42

802.11b Legacy Band-edge 2390 MHz

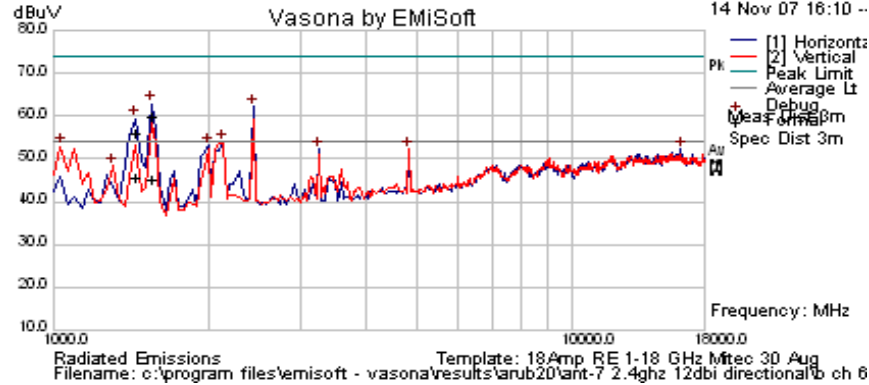
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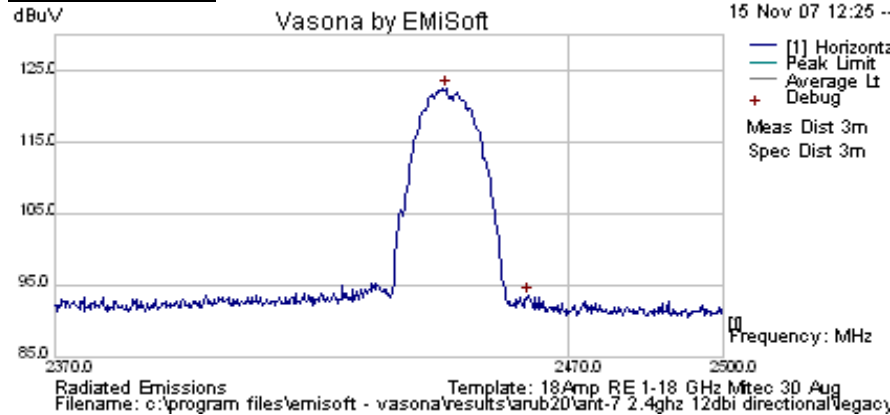
| AP124 - ANT-7 (12 dBi) Test Configuration | | | | | | |
|---|------------|----------|-------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software | Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 6 | 2437 | ART | 19 | 99% | B 1 MBit/s Legacy | Yes |

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 |
|---------------|----------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2446.072 | 87.18 | 2.98 | 32.37 | 122.53 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 1559.398 | 70.02 | 2.42 | -14.69 | 57.75 | Peak Max | V | 106 | 13 | 74 | -16.25 | Pass | |
| 1451.551 | 66.82 | 2.34 | -15.36 | 53.79 | Peak Max | V | 133 | 204 | 74 | -20.21 | Pass | |
| 1559.398 | 55.46 | 2.42 | -14.69 | 43.19 | Average Max | H | 123 | 50 | 54 | -10.81 | Pass | |
| 1451.551 | 56.58 | 2.34 | -15.36 | 43.55 | Average Max | H | 98 | 34 | 54 | -10.45 | Pass | |
| 2430.862 | 70.5 | 2.97 | -11.17 | 62.3 | Peak [Scan] | H | 100 | 0 | 102.53 | -40.23 | Pass | NRB |
| 2124.248 | 62 | 2.82 | -11.03 | 53.78 | Peak [Scan] | H | 100 | 0 | 102.53 | -48.75 | Pass | NRB |
| 1987.976 | 61.73 | 2.74 | -11.26 | 53.21 | Peak [Scan] | H | 100 | 0 | 102.53 | -49.32 | Pass | NRB |
| 3248.497 | 60.32 | 3.49 | -11.64 | 52.17 | Peak [Scan] | H | 100 | 0 | 102.53 | -50.36 | Pass | NRB |

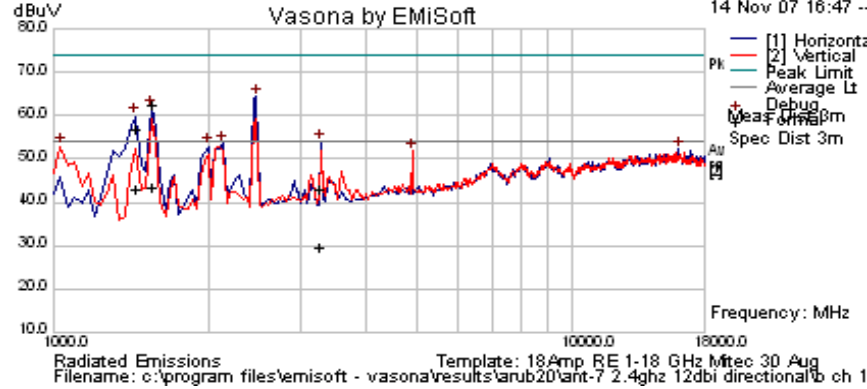
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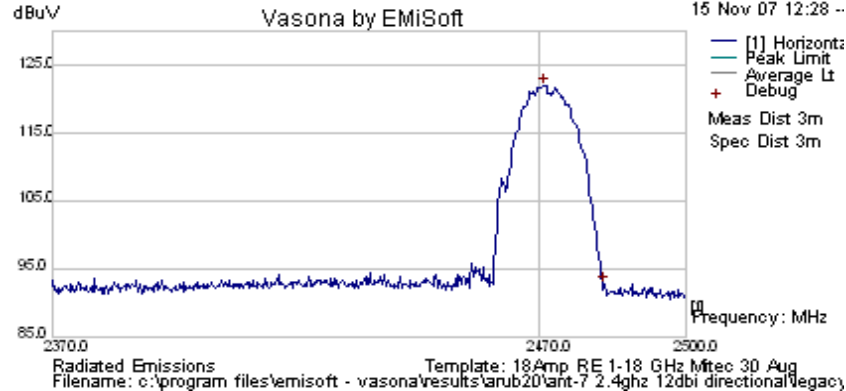
| AP124 - ANT-7 (12 dBi) Test Configuration | | | | | |
|---|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 11 | 2462 | ART 19 | 99% | B 1 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

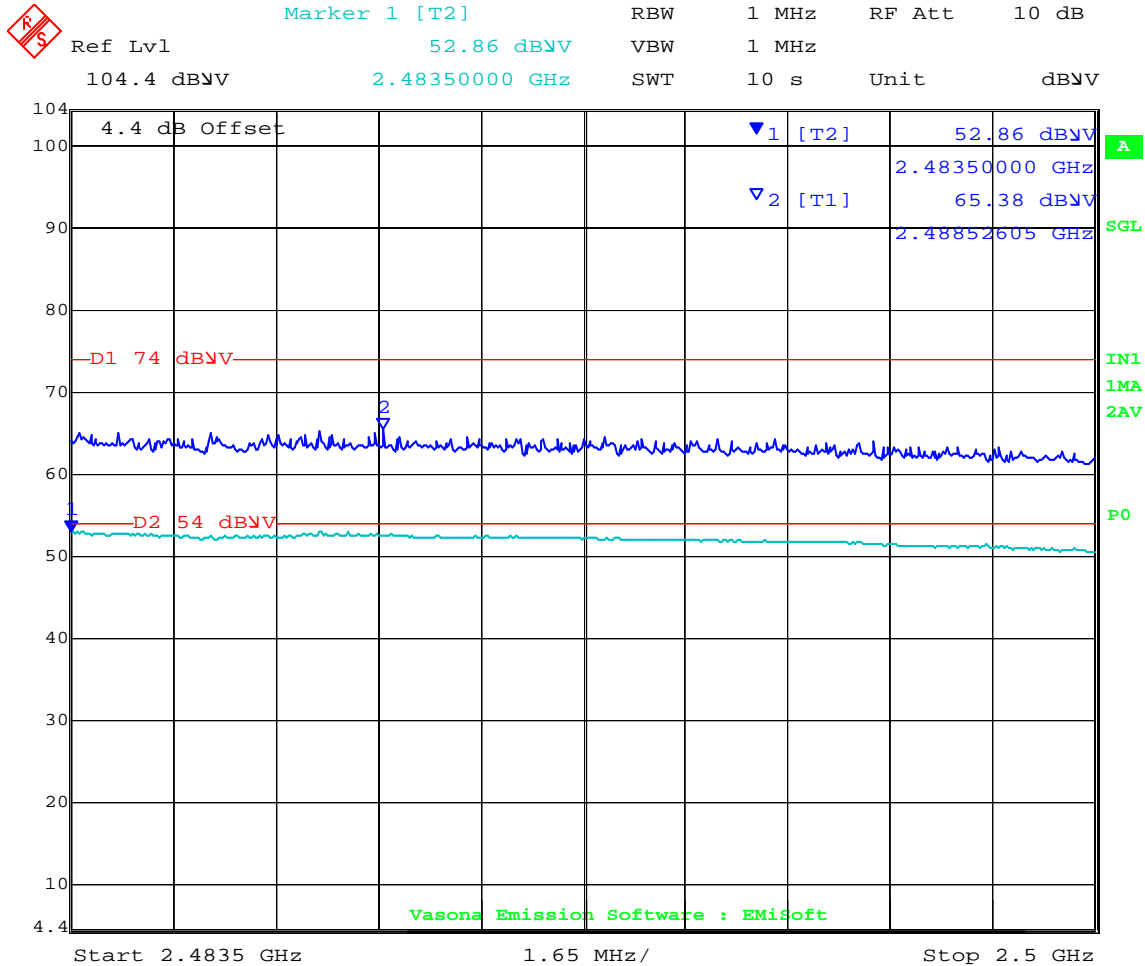


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2471.082 | 86.62 | 2.99 | 32.38 | 121.99 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 16 | | | 65.38 | Formal Peak | V | | | 74 | -8.62 | Pass | Band-edge |
| 2483.5 | ART Power Setting = 16 | | | 52.86 | Formal Average | V | | | 54 | -1.14 | Pass | Band-edge |
| 1555.912 | 72.93 | 2.42 | -14.72 | 60.63 | Peak Max | V | 106 | 15 | 74 | -13.37 | Pass | |
| 1454.549 | 67.69 | 2.34 | -15.36 | 54.67 | Peak Max | V | 116 | 21 | 74 | -19.33 | Pass | |
| 3276.057 | 48.89 | 3.51 | -11.57 | 40.83 | Peak Max | V | 98 | 149 | 74 | -33.17 | Pass | |
| 1555.912 | 53.86 | 2.42 | -14.72 | 41.56 | Average Max | H | 98 | 22 | 54 | -12.44 | Pass | |
| 1454.549 | 54.17 | 2.34 | -15.36 | 41.15 | Average Max | H | 151 | 35 | 54 | -12.85 | Pass | |
| 2464.93 | 72.68 | 2.98 | -11.17 | 64.49 | Peak [Scan] | H | 100 | 0 | 101.99 | -37.50 | Pass | NRB |
| 2124.248 | 61.73 | 2.82 | -11.03 | 53.52 | Peak [Scan] | H | 100 | 0 | 101.99 | -48.47 | Pass | NRB |
| 1987.976 | 61.49 | 2.74 | -11.26 | 52.98 | Peak [Scan] | H | 100 | 0 | 101.99 | -49.01 | Pass | NRB |
| 4917.836 | 56.69 | 4.55 | -9.24 | 51.99 | Peak [Scan] | V | 100 | 0 | 101.99 | -50.00 | Pass | NRB |

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To: FCC 47 CFR Part 15.247 & IC RSS-210
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Date: 1.DEC.2007 18:52:04

802.11b Legacy Band-edge 2483.5 MHz

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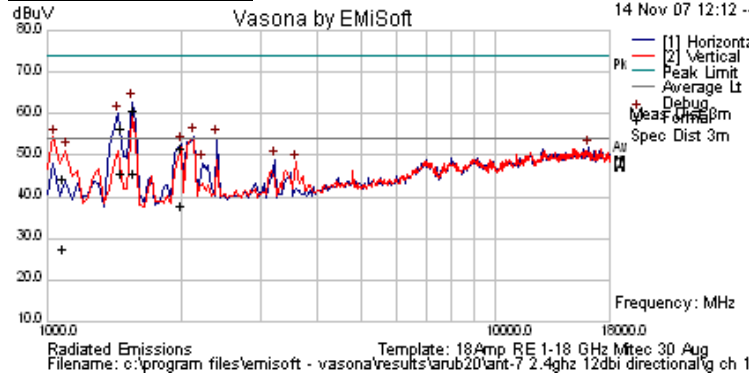


AP124: 2400 - 2483.5 MHz ANT-7 (12 dBi) Legacy Data Rates

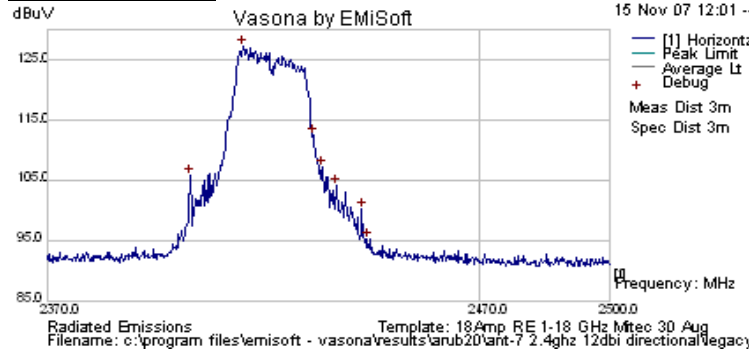
| AP124 - ANT-7 (12 dBi) Test Configuration | | | | | |
|---|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 1 | 2412 | ART 17 | 99% | G 6 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

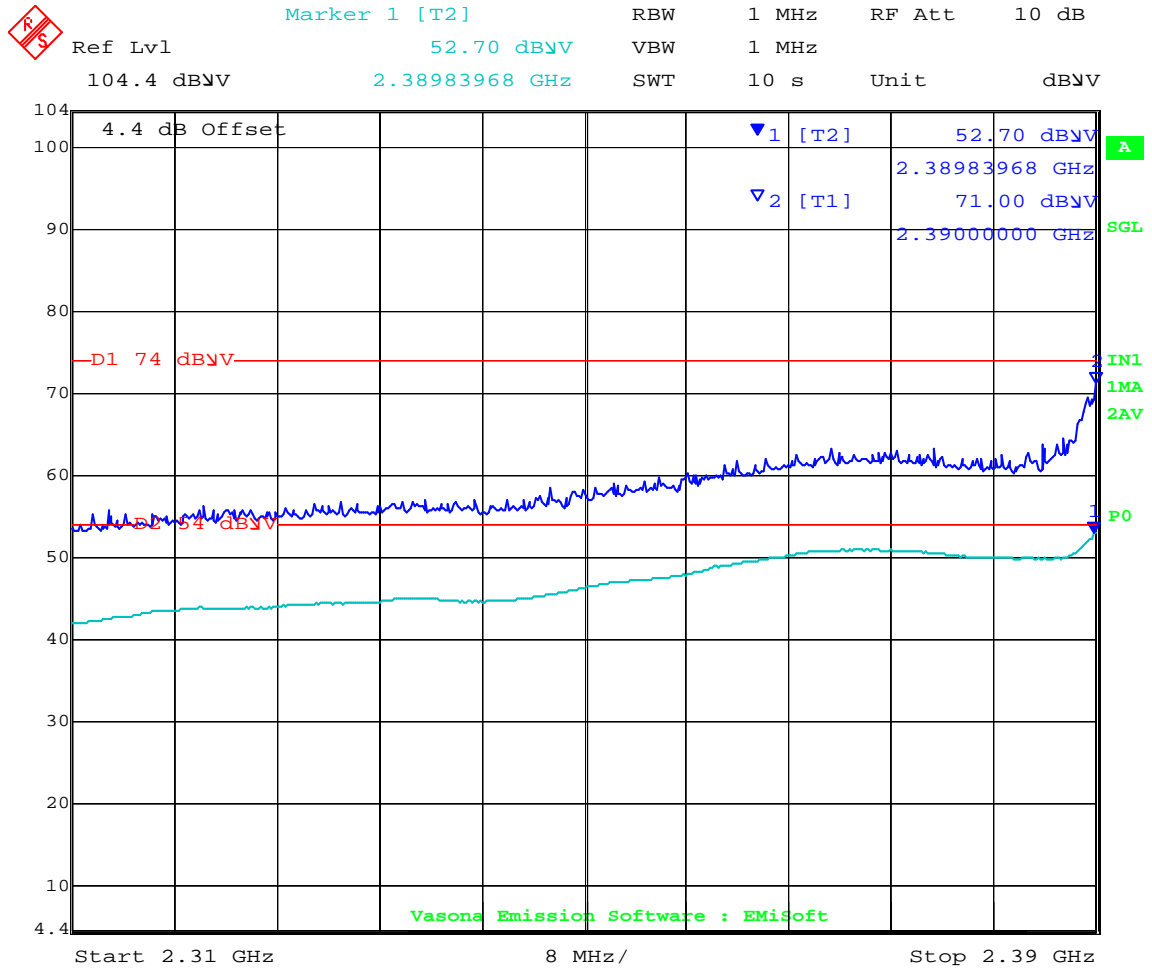


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2415.331 | 91.96 | 2.96 | 32.35 | 127.27 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2390.0 | ART Power Setting = 11 | | | 71.00 | Formal Peak | V | | | 74 | -3.00 | Pass | Band-edge |
| 2390.0 | | | | 52.70 | Formal Average | V | | | 54 | -1.30 | Pass | Band-edge |
| 1557.459 | 71.11 | 2.42 | -14.71 | 58.83 | Peak Max | V | 103 | 13 | 74 | -15.17 | Pass | |
| 1459.219 | 67.44 | 2.34 | -15.34 | 54.44 | Peak Max | V | 117 | 18 | 74 | -19.56 | Pass | |
| 1085.204 | 56.53 | 2.03 | -16.09 | 42.47 | Peak Max | V | 102 | 57 | 74 | -31.53 | Pass | |
| 1989.579 | 58.23 | 2.74 | -11.25 | 49.72 | Peak Max | V | 98 | 102 | 74 | -24.28 | Pass | |
| 2132.645 | 61.41 | 2.82 | -11.04 | 53.19 | Peak Max | V | 101 | 156 | 74 | -20.81 | Pass | |
| 1557.459 | 55.93 | 2.42 | -14.71 | 43.64 | Average Max | H | 124 | 53 | 54 | -10.36 | Pass | |
| 1459.219 | 56.65 | 2.34 | -15.34 | 43.65 | Average Max | H | 102 | 34 | 54 | -10.35 | Pass | |
| 1085.204 | 39.49 | 2.03 | -16.09 | 25.43 | Average Max | V | 102 | 57 | 54 | -28.57 | Pass | |
| 1989.579 | 44.27 | 2.74 | -11.25 | 35.77 | Average Max | H | 100 | 83 | 54 | -18.23 | Pass | |
| 2132.645 | 41.48 | 2.82 | -11.04 | 33.25 | Average Max | H | 98 | 196 | 54 | -20.75 | Pass | |
| 3214.429 | 57.25 | 3.48 | -11.65 | 49.08 | Peak [Scan] | H | 100 | 0 | 54 | -4.92 | Pass | NRB |

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Date: 1.DEC.2007 18:42:10

802.11g Legacy Band-edge 2390 MHz

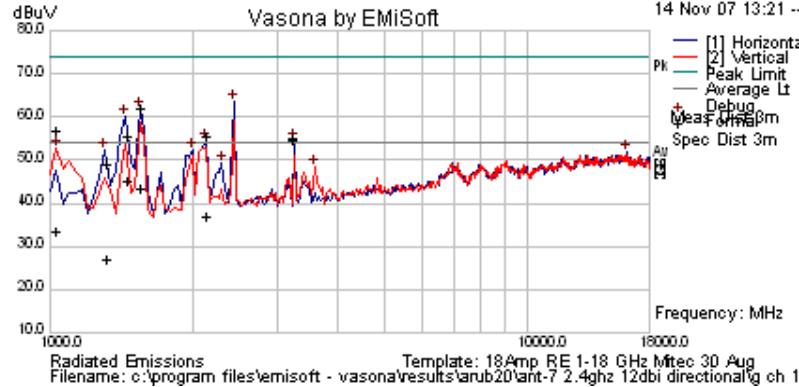
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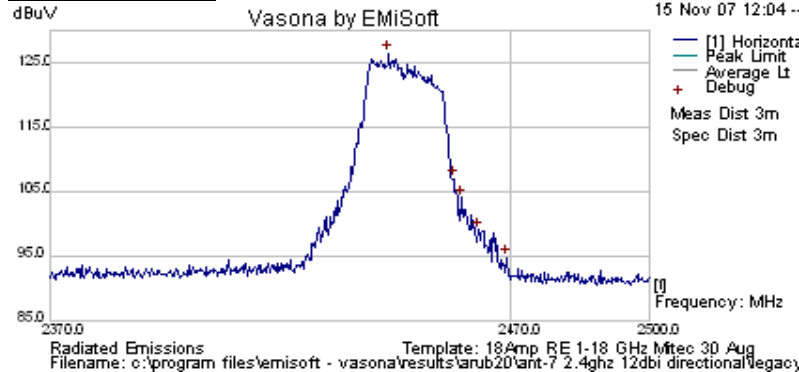
| AP124 - ANT-7 (12 dBi) Test Configuration | | | | | |
|---|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 6 | 2437 | ART 17 | 99% | G 6 MBit/s Legacy | Yes |

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 |
|---------------|----------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2443.467 | 91.19 | 2.97 | 32.37 | 126.54 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 1555.391 | 72.55 | 2.42 | -14.72 | 60.24 | Peak Max | V | 104 | 115 | 74 | -13.76 | Pass | |
| 1460.281 | 66.44 | 2.34 | -15.34 | 53.44 | Peak Max | V | 104 | 25 | 74 | -20.56 | Pass | |
| 2132.024 | 61.69 | 2.82 | -11.04 | 53.46 | Peak Max | V | 98 | 156 | 74 | -20.54 | Pass | |
| 3249.399 | 61.14 | 3.49 | -11.64 | 53 | Peak Max | V | 104 | 253 | 74 | -21 | Pass | |
| 1037.515 | 68.82 | 1.99 | -16.05 | 54.76 | Peak Max | V | 98 | 71 | 74 | -19.24 | Pass | |
| 1327.615 | 60.3 | 2.24 | -15.59 | 46.95 | Peak Max | V | 99 | 340 | 74 | -27.05 | Pass | |
| 1555.391 | 53.67 | 2.42 | -14.72 | 41.37 | Average Max | H | 99 | 23 | 54 | -12.63 | Pass | |
| 1460.281 | 56.29 | 2.34 | -15.34 | 43.29 | Average Max | H | 103 | 38 | 54 | -10.71 | Pass | |
| 2132.024 | 43.24 | 2.82 | -11.04 | 35.02 | Average Max | H | 114 | 232 | 54 | -18.98 | Pass | |
| 3249.399 | 60.98 | 3.49 | -11.64 | 52.83 | Average Max | H | 98 | 34 | 54 | -1.17 | Pass | |
| 1037.515 | 45.55 | 1.99 | -16.05 | 31.49 | Average Max | V | 98 | 71 | 54 | -22.51 | Pass | |
| 1327.615 | 38.48 | 2.24 | -15.59 | 25.13 | Average Max | H | 98 | 53 | 54 | -28.87 | Pass | |

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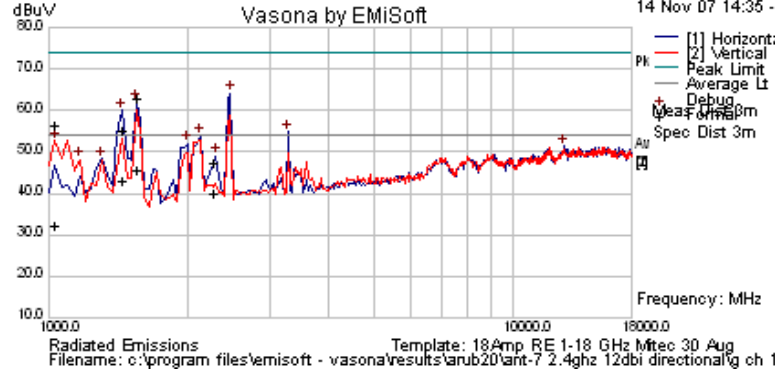


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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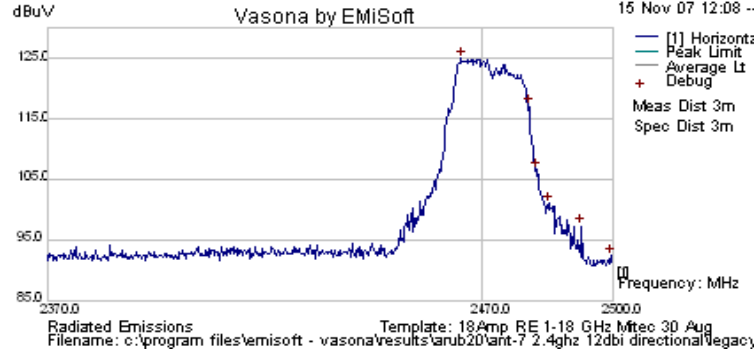
| AP124 - ANT-7 (12 dBi) Test Configuration | | | | | |
|---|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 11 | 2462 | ART 17 | 99% | G 6 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

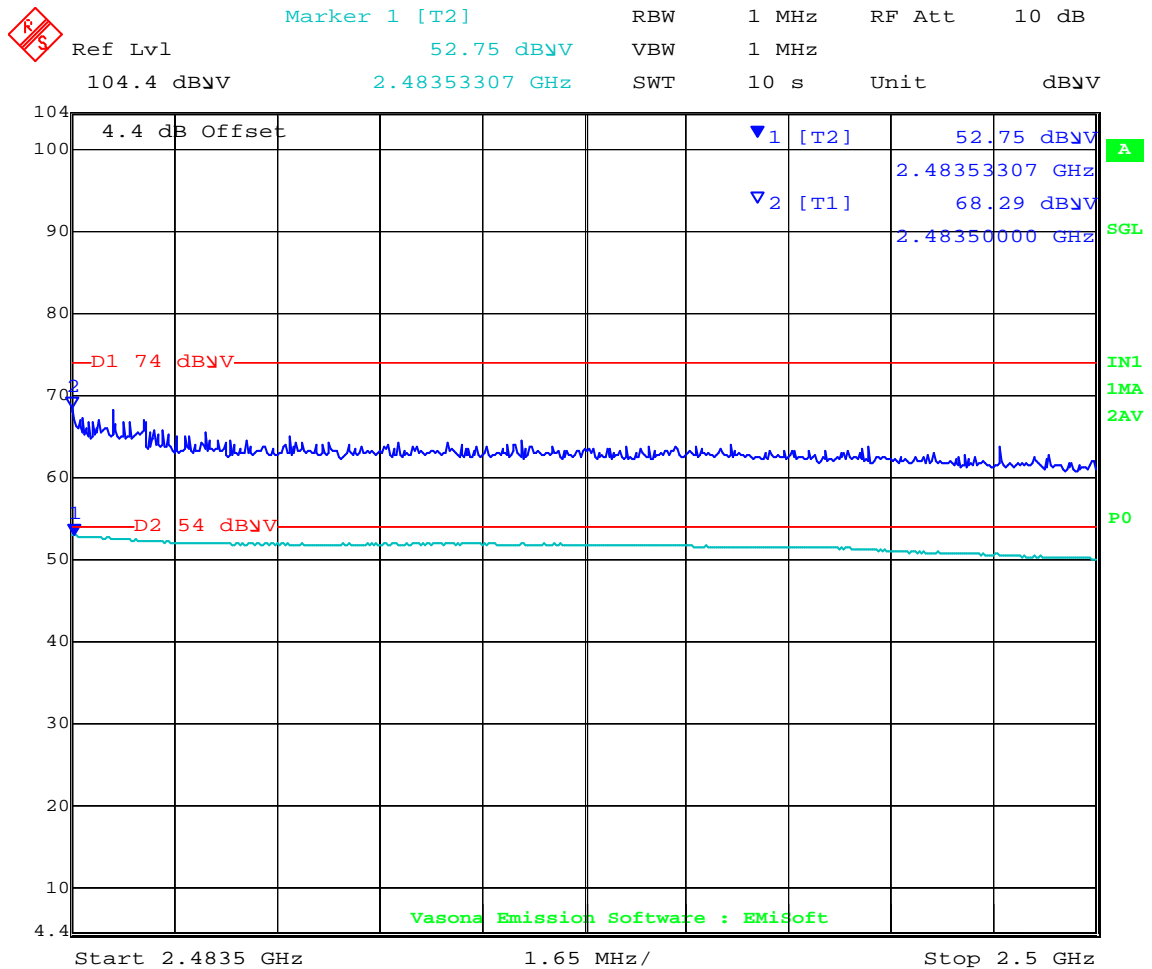


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|-------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2465.09 | 89.55 | 2.98 | 32.38 | 124.91 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 7.5 | | | 68.29 | Formal Peak | V | | | 74 | -5.71 | Pass | Band-edge |
| 2483.5 | | | | 52.75 | Formal Average | V | | | 54 | -1.25 | Pass | Band-edge |
| 1555.631 | 73.06 | 2.42 | -14.72 | 60.76 | Peak Max | V | 107 | 15 | 74 | -13.24 | Pass | |
| 1452.766 | 66.31 | 2.34 | -15.36 | 53.29 | Peak Max | V | 134 | 202 | 74 | -20.71 | Pass | |
| 1036.733 | 68.44 | 1.99 | -16.05 | 54.38 | Peak Max | V | 98 | 67 | 74 | -19.62 | Pass | |
| 2287.214 | 53.34 | 2.9 | -10.99 | 45.25 | Peak Max | V | 139 | 304 | 74 | -28.75 | Pass | |
| 1555.631 | 55.67 | 2.42 | -14.72 | 43.37 | Average Max | H | 124 | 57 | 54 | -10.63 | Pass | |
| 1452.766 | 53.97 | 2.34 | -15.36 | 40.94 | Average Max | H | 98 | 79 | 54 | -13.06 | Pass | |
| 1036.733 | 44.37 | 1.99 | -16.05 | 30.3 | Average Max | V | 98 | 67 | 54 | -23.7 | Pass | |
| 2287.214 | 46.25 | 2.9 | -10.99 | 38.16 | Average Max | H | 108 | 325 | 54 | -15.84 | Pass | |
| 3282.565 | 63.06 | 3.51 | -11.56 | 55.01 | Peak [Scan] | H | 100 | 0 | 104.91 | -49.90 | Pass | NRB |
| 2124.248 | 62.03 | 2.82 | -11.03 | 53.81 | Peak [Scan] | H | 100 | 0 | 104.91 | -51.10 | Pass | NRB |

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Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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Date: 1.DEC.2007 18:53:37

802.11g Legacy Band-edge 2483.5 MHz

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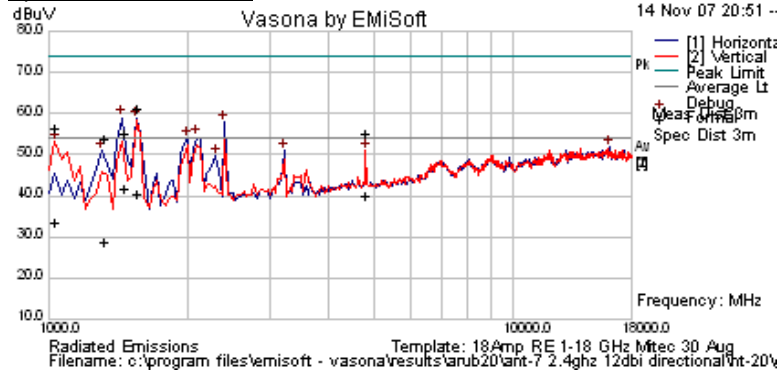


AP124: 2400 - 2483.5 MHz ANT 7 HT-20 Data Rates

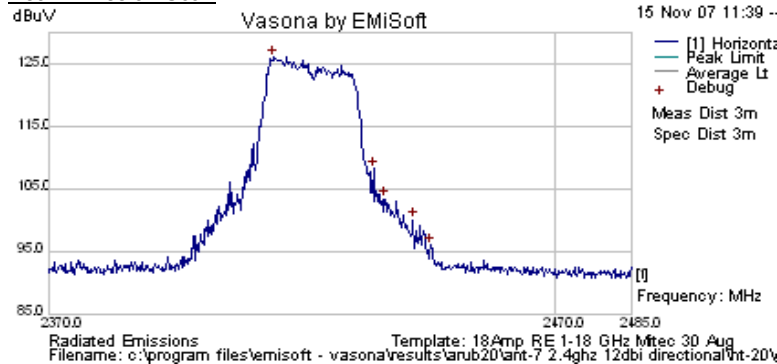
| AP124 - ANT 7 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 1 | 2412 | ART 19 | 99% | G 6.5 MCS HT-20 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

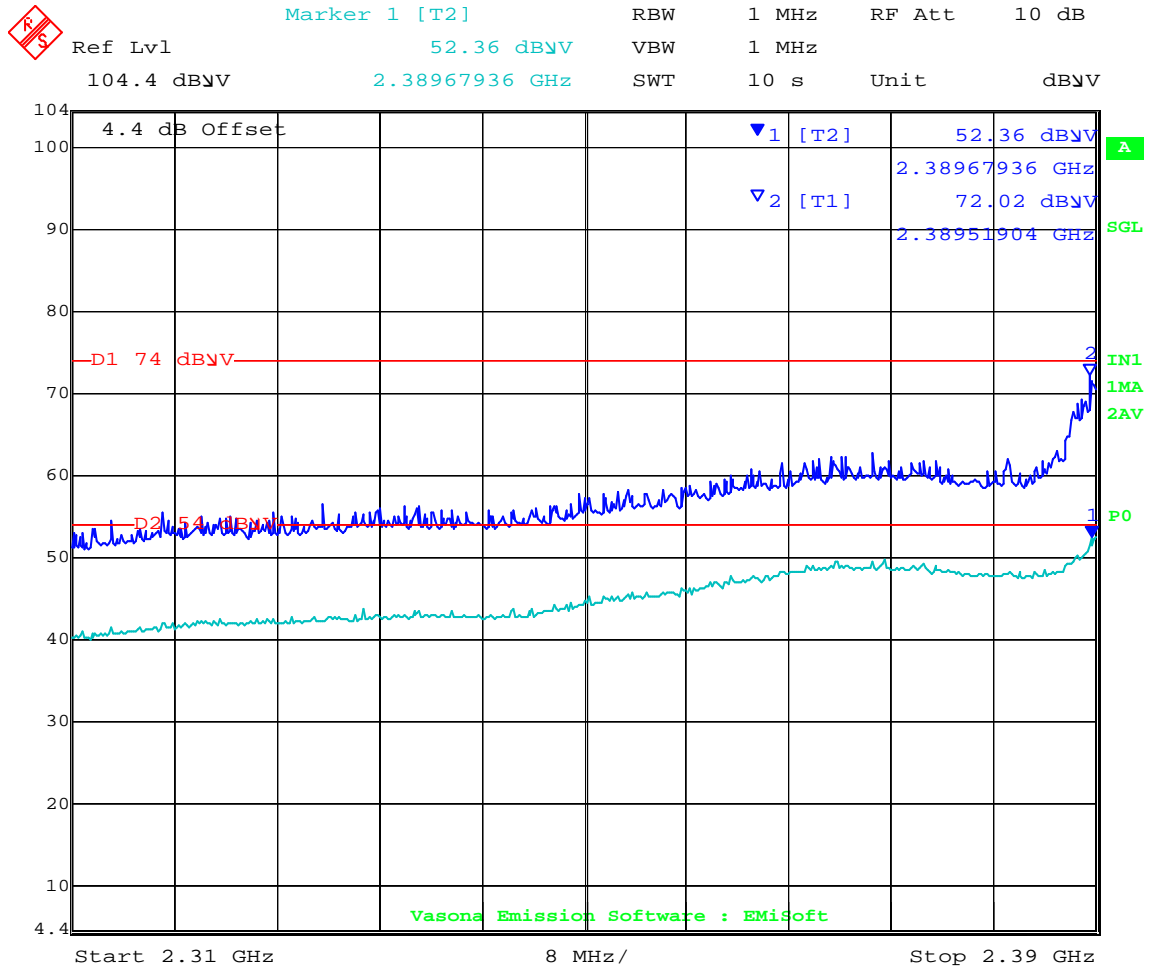


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|--------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2414.479 | 90.77 | 2.96 | 32.35 | 126.08 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2390.0 | ART Power Setting = 10.0 | | | 72.02 | Formal Peak | V | | | 74 | -1.98 | Pass | Band-edge |
| 2390.0 | | | | 52.36 | Formal Average | V | | | 54 | -1.64 | Pass | Band-edge |
| 1555.1 | 71.51 | 2.42 | -14.73 | 59.2 | Peak Max | V | 110 | 15 | 74 | -14.8 | Pass | |
| 1464.589 | 66.19 | 2.35 | -15.33 | 53.2 | Peak Max | V | 118 | 21 | 74 | -20.8 | Pass | |
| 1037.254 | 68.32 | 1.99 | -16.05 | 54.25 | Peak Max | V | 110 | 12 | 74 | -19.75 | Pass | |
| 4826.513 | 57.96 | 4.47 | -9.19 | 53.23 | Peak Max | V | 98 | 150 | 74 | -20.77 | Pass | |
| 1320.2 | 65.15 | 2.24 | -15.62 | 51.77 | Peak Max | V | 98 | 181 | 74 | -22.23 | Pass | |
| 1555.1 | 50.7 | 2.42 | -14.73 | 38.39 | Average Max | H | 140 | 21 | 54 | -15.61 | Pass | |
| 1464.589 | 52.69 | 2.35 | -15.33 | 39.71 | Average Max | H | 142 | 30 | 54 | -14.29 | Pass | |
| 1037.254 | 45.66 | 1.99 | -16.05 | 31.6 | Average Max | V | 110 | 12 | 54 | -22.4 | Pass | |
| 4826.513 | 42.83 | 4.47 | -9.19 | 38.1 | Average Max | V | 98 | 150 | 54 | -15.9 | Pass | |
| 1320.2 | 40.19 | 2.24 | -15.62 | 26.81 | Average Max | H | 109 | 48 | 54 | -27.19 | Pass | |

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Date: 1.DEC.2007 18:43:37

802.11n HT--20 Band-edge 2390 MHz

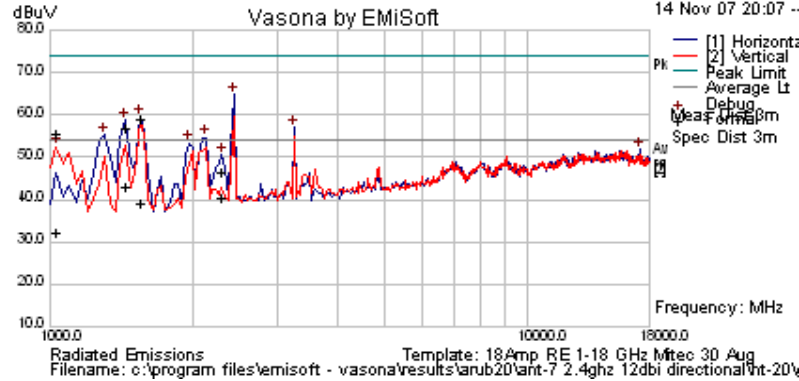
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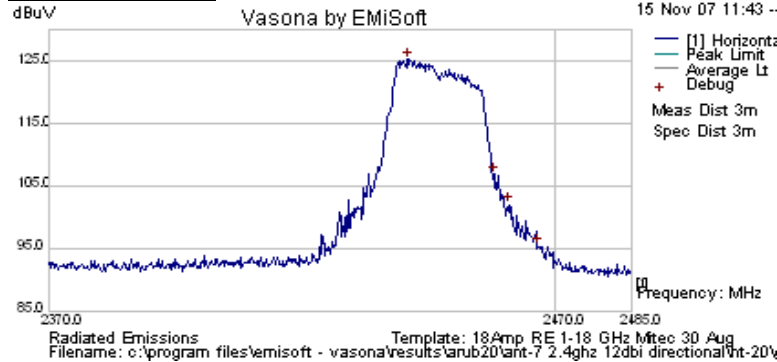
| AP124 - ANT 7 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 6 | 2437 | ART 19 | 99% | G 6.5 MCS HT-20 | 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 |
|---------------|----------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2440.982 | 90.01 | 2.97 | 32.37 | 125.36 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 1554.86 | 69.35 | 2.42 | -14.73 | 57.04 | Peak Max | V | 100 | 115 | 74 | -16.96 | Pass | |
| 1451.754 | 67.69 | 2.34 | -15.36 | 54.66 | Peak Max | V | 133 | 204 | 74 | -19.34 | Pass | |
| 1036.924 | 67.44 | 1.99 | -16.05 | 53.37 | Peak Max | V | 101 | 32 | 74 | -20.63 | Pass | |
| 2307.996 | 52.38 | 2.91 | -11.02 | 44.27 | Peak Max | V | 103 | 304 | 74 | -29.73 | Pass | |
| 1554.86 | 49.49 | 2.42 | -14.73 | 37.18 | Average Max | H | 108 | 222 | 54 | -16.82 | Pass | |
| 1451.754 | 54.12 | 2.34 | -15.36 | 41.1 | Average Max | H | 98 | 30 | 54 | -12.9 | Pass | |
| 1036.924 | 44.4 | 1.99 | -16.05 | 30.33 | Average Max | V | 101 | 32 | 54 | -23.67 | Pass | |
| 2307.996 | 46.34 | 2.91 | -11.02 | 38.23 | Average Max | H | 99 | 242 | 54 | -15.77 | Pass | |
| 3248.497 | 65.33 | 3.49 | -11.64 | 57.18 | Peak [Scan] | H | 100 | 0 | 105.36 | -48.18 | Pass | NRB |
| 2124.248 | 62.96 | 2.82 | -11.03 | 54.74 | Peak [Scan] | H | 100 | 0 | 105.36 | -50.62 | Pass | NRB |
| 1953.908 | 62.24 | 2.72 | -11.52 | 53.43 | Peak [Scan] | H | 100 | 0 | 105.36 | -51.93 | Pass | NRB |

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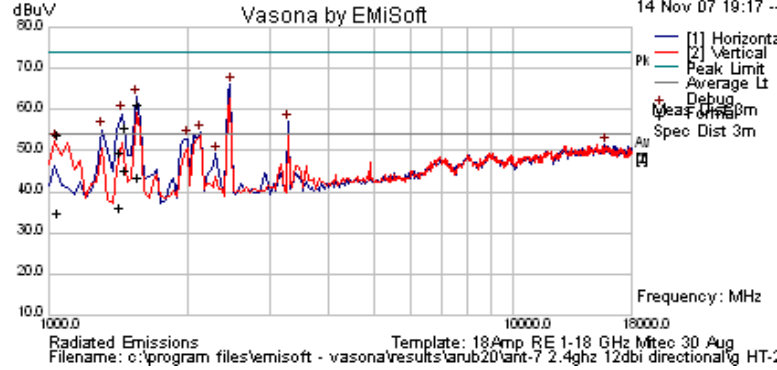


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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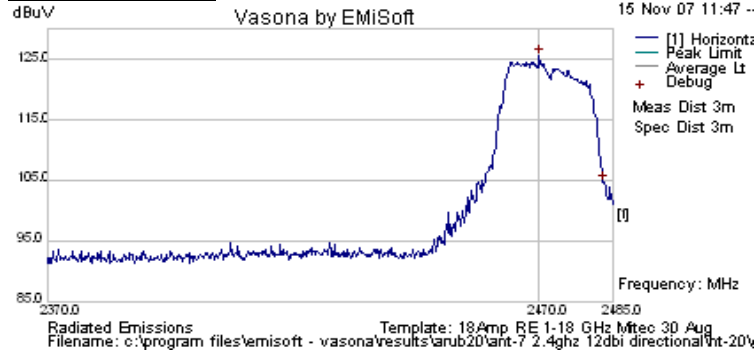
| AP124 - ANT 7 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 11 | 2462 | ART 19 | 99% | G 6.5 MCS HT-20 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

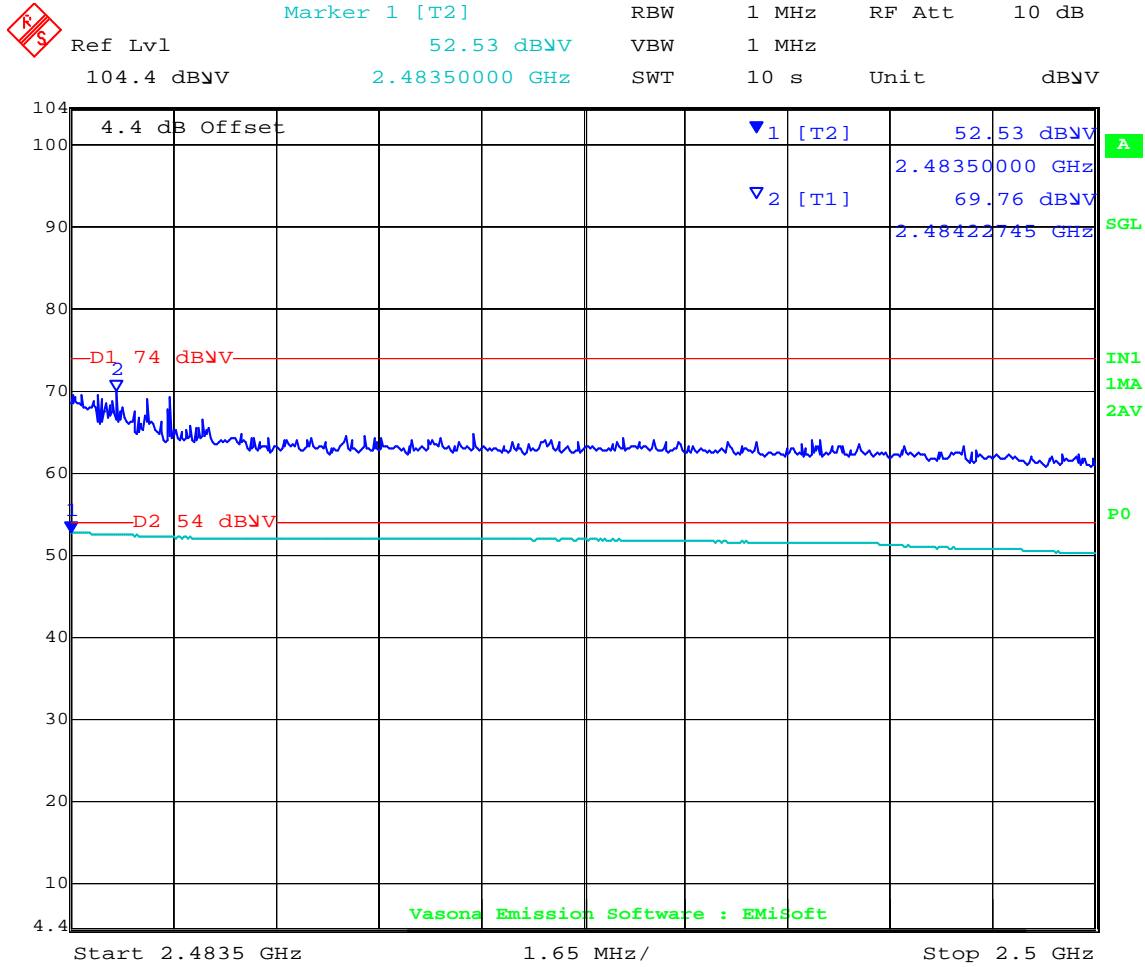


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|-------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2470.02 | 90.18 | 2.99 | 32.38 | 125.55 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 6.5 | | | 69.76 | Formal Peak | | | | 74 | -4.24 | Pass | Band-edge |
| 2483.5 | | | | 52.53 | Formal Average | | | | 54 | -1.47 | Pass | Band-edge |
| 1555.791 | 71.51 | 2.42 | -14.72 | 59.21 | Peak Max | V | 100 | 114 | 74 | -14.79 | Pass | |
| 1458.638 | 66.44 | 2.34 | -15.34 | 53.43 | Peak Max | V | 138 | 203 | 74 | -20.57 | Pass | |
| 1426.132 | 60.72 | 2.32 | -15.4 | 47.64 | Peak Max | V | 98 | 327 | 74 | -26.36 | Pass | |
| 1050 | 65.93 | 2 | -16.07 | 51.87 | Peak Max | V | 104 | 7 | 74 | -22.13 | Pass | |
| 1555.791 | 53.84 | 2.42 | -14.72 | 41.54 | Average Max | H | 98 | 20 | 54 | -12.46 | Pass | |
| 1458.638 | 56.2 | 2.34 | -15.34 | 43.2 | Average Max | H | 98 | 37 | 54 | -10.8 | Pass | |
| 1426.132 | 47.35 | 2.32 | -15.4 | 34.27 | Average Max | H | 98 | 38 | 54 | -19.73 | Pass | |
| 1050 | 46.82 | 2 | -16.07 | 32.75 | Average Max | V | 104 | 7 | 54 | -21.25 | Pass | |
| 3282.565 | 65.09 | 3.51 | -11.56 | 57.05 | Peak [Scan] | H | 100 | 0 | 105.55 | -48.50 | Pass | NRB |
| 2124.248 | 62.69 | 2.82 | -11.03 | 54.47 | Peak [Scan] | H | 100 | 0 | 105.55 | -51.08 | Pass | NRB |
| 1987.976 | 61.54 | 2.74 | -11.26 | 53.02 | Peak [Scan] | H | 100 | 0 | 105.55 | -52.53 | Pass | NRB |

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Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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Date: 1.DEC.2007 18:50:40

802.11n HT--20 Band-edge 2483.5 MHz

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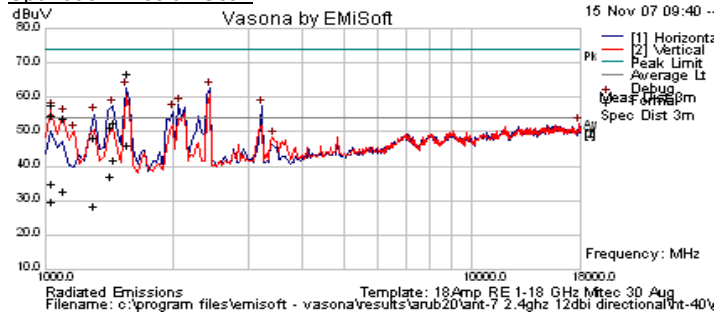


AP124: 2400 - 2483.5 MHz ANT 7 HT-40 Data Rates

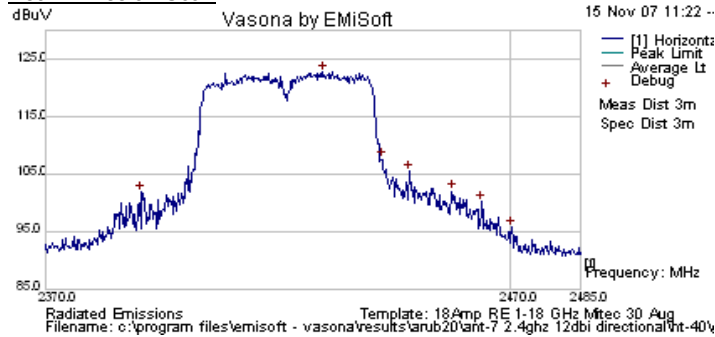
| AP124 - ANT 7 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| | 2422 | ART 19 | 99% | G 13.5 MCS HT-40 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

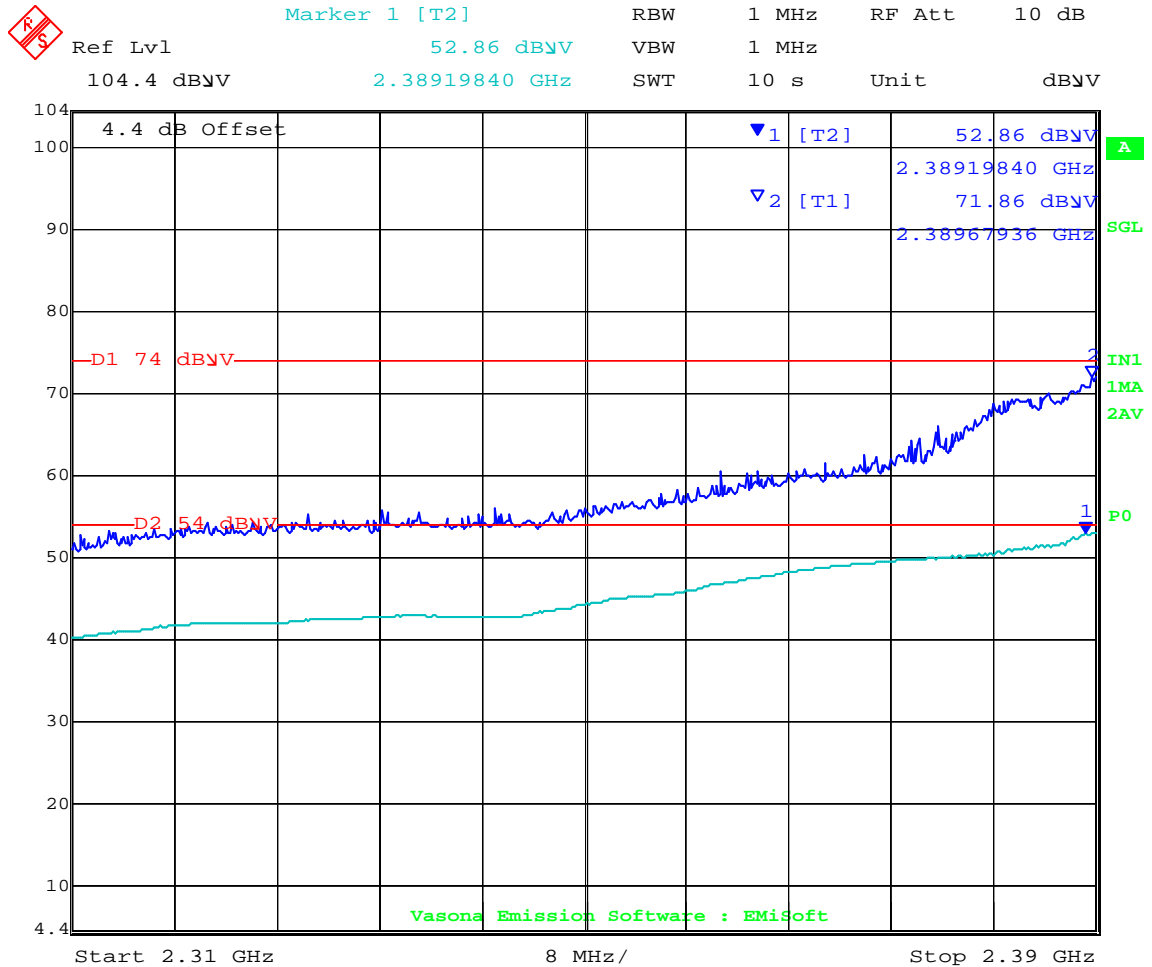


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|-------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2429.689 | 87.47 | 2.97 | 32.36 | 122.8 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2390.0 | ART Power Setting = 6.5 | | | 71.86 | Formal Peak | V | | | 74 | -2.14 | Pass | Band-edge |
| 2390.0 | | | | 52.86 | Formal Average | V | | | 54 | -1.14 | Pass | Band-edge |
| 1555.711 | 77.17 | 2.42 | -14.72 | 64.87 | Peak Max | H | 121 | 60 | 74 | -9.13 | Pass | |
| 1427.966 | 62.24 | 2.32 | -15.4 | 49.17 | Peak Max | V | 98 | 335 | 74 | -24.83 | Pass | |
| 1449.539 | 63.61 | 2.33 | -15.37 | 50.58 | Peak Max | V | 98 | 347 | 74 | -23.42 | Pass | |
| 1036.024 | 66.69 | 1.99 | -16.06 | 52.62 | Peak Max | V | 101 | 37 | 74 | -21.38 | Pass | |
| 1037.154 | 69.75 | 1.99 | -16.05 | 55.69 | Peak Max | V | 110 | 12 | 74 | -18.31 | Pass | |
| 1304.962 | 59.64 | 2.23 | -15.68 | 46.19 | Peak Max | V | 114 | 241 | 74 | -27.81 | Pass | |
| 1104.18 | 65.67 | 2.05 | -16.03 | 51.69 | Peak Max | V | 98 | 2 | 74 | -22.31 | Pass | |
| 1555.711 | 56.32 | 2.42 | -14.72 | 44.02 | Average Max | H | 121 | 60 | 54 | -9.98 | Pass | |
| 1427.966 | 48.13 | 2.32 | -15.4 | 35.05 | Average Max | H | 99 | 41 | 54 | -18.95 | Pass | |
| 1449.539 | 52.8 | 2.33 | -15.37 | 39.76 | Average Max | H | 137 | 28 | 54 | -14.24 | Pass | |
| 1036.024 | 41.67 | 1.99 | -16.06 | 27.6 | Average Max | V | 101 | 37 | 54 | -26.4 | Pass | |
| 1037.154 | 46.69 | 1.99 | -16.05 | 32.62 | Average Max | V | 110 | 12 | 54 | -21.38 | Pass | |
| 1304.962 | 39.91 | 2.23 | -15.68 | 26.46 | Average Max | H | 103 | 48 | 54 | -27.54 | Pass | |

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Date: 1.DEC.2007 18:47:24

802.11n HT--40 Band-edge 2390 MHz

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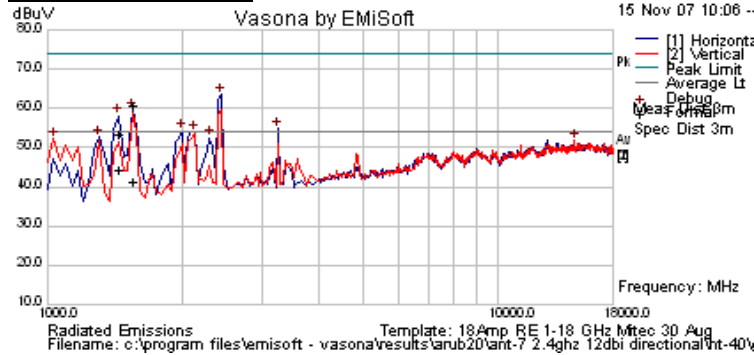


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
Serial #: ARUB20-A2 Rev A
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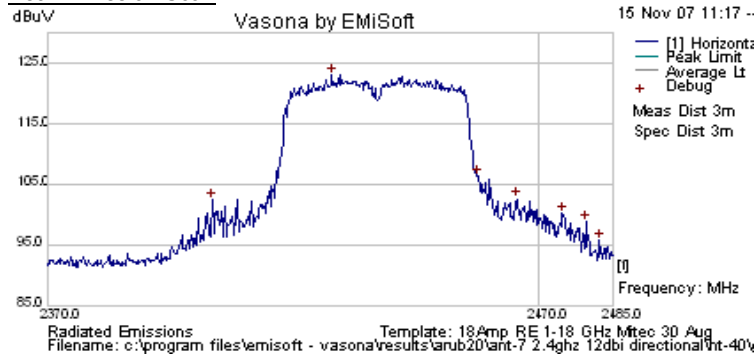
| AP124 - ANT 7 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| | 2437 | ART 18.5 | 99% | G 13.5 MCS HT-40 | 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 |
|---------------|----------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2427.846 | 87.7 | 2.97 | 32.36 | 123.03 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 1555.831 | 71.11 | 2.42 | -14.72 | 58.81 | Peak Max | V | 110 | 360 | 74 | -15.19 | Pass | |
| 1451.524 | 64.39 | 2.34 | -15.36 | 51.36 | Peak Max | V | 98 | 342 | 74 | -22.64 | Pass | |
| 1555.831 | 51.74 | 2.42 | -14.72 | 39.43 | Average Max | H | 101 | 224 | 54 | -14.57 | Pass | |
| 1451.524 | 55.51 | 2.34 | -15.36 | 42.48 | Average Max | H | 98 | 29 | 54 | -11.52 | Pass | |
| 2430.862 | 71.84 | 2.97 | -11.17 | 63.64 | Peak [Scan] | H | 100 | 0 | 103.03 | -39.39 | Pass | NRB |
| 3248.497 | 63.19 | 3.49 | -11.64 | 55.05 | Peak [Scan] | H | 100 | 0 | 103.03 | -47.98 | Pass | NRB |
| 1987.976 | 62.72 | 2.74 | -11.26 | 54.2 | Peak [Scan] | H | 100 | 0 | 103.03 | -48.83 | Pass | NRB |
| 2124.248 | 62.34 | 2.82 | -11.03 | 54.12 | Peak [Scan] | H | 100 | 0 | 103.03 | -48.91 | Pass | NRB |
| 2294.589 | 60.62 | 2.9 | -10.98 | 52.54 | Peak [Scan] | H | 100 | 0 | 103.03 | -50.49 | Pass | NRB |

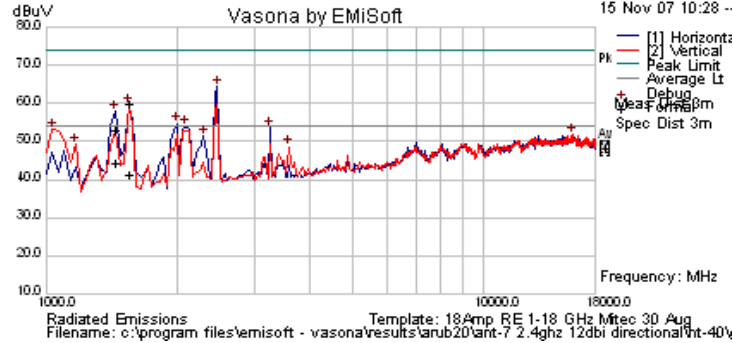
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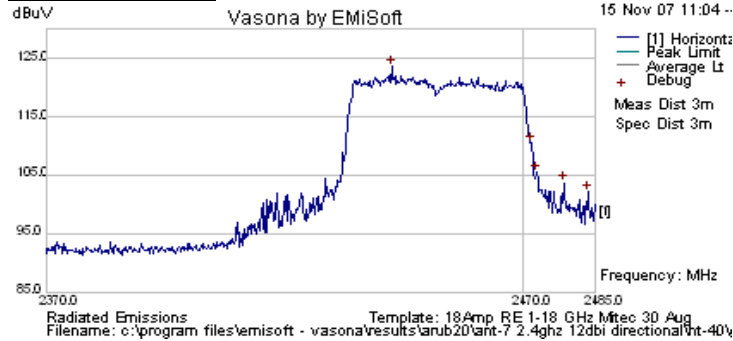
| AP124 - ANT 7 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| | 2452 | ART 18.5 | 99% | G 13.5 MCS HT-40 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

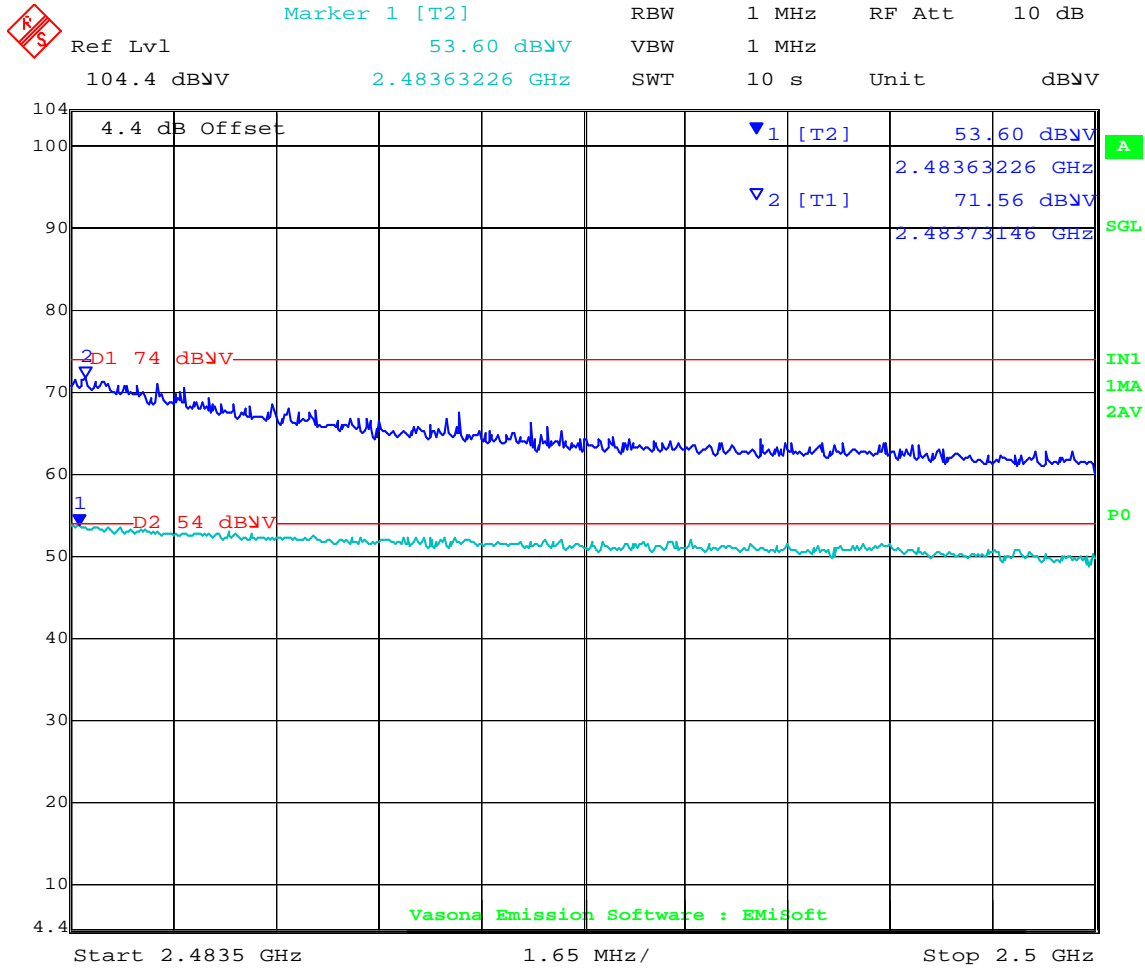


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|-------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2442.365 | 88.22 | 2.97 | 32.37 | 123.56 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 3.0 | | | 71.56 | Formal Peak | V | | | 74 | -2.44 | Pass | Band-edge |
| 2483.5 | | | | 53.60 | Formal Average | V | | | 54 | -0.4 | Pass | Band-edge |
| 1555.391 | 70.02 | 2.42 | -14.72 | 57.71 | Peak Max | V | 99 | 17 | 74 | -16.29 | Pass | |
| 1450.04 | 64.01 | 2.33 | -15.37 | 50.97 | Peak Max | V | 98 | 345 | 74 | -23.03 | Pass | |
| 1555.391 | 51.38 | 2.42 | -14.72 | 39.07 | Average Max | H | 101 | 224 | 54 | -14.93 | Pass | |
| 1450.04 | 55.12 | 2.33 | -15.37 | 42.09 | Average Max | H | 135 | 30 | 54 | -11.91 | Pass | |
| 2464.93 | 72.57 | 2.98 | -11.17 | 64.39 | Peak [Scan] | H | 100 | 0 | 103.56 | -39.17 | Pass | NRB |
| 1987.976 | 63.22 | 2.74 | -11.26 | 54.7 | Peak [Scan] | H | 100 | 0 | 103.56 | -48.86 | Pass | NRB |
| 2090.18 | 62.06 | 2.8 | -11.1 | 53.75 | Peak [Scan] | H | 100 | 0 | 103.56 | -49.81 | Pass | NRB |
| 3248.497 | 61.73 | 3.49 | -11.64 | 53.58 | Peak [Scan] | H | 100 | 0 | 103.56 | -49.98 | Pass | NRB |

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Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
Serial #: ARUB20-A2 Rev A
Issue Date: 11th December 2007
Page: 198 of 268



Date: 1.DEC.2007 18:49:09

802.11n HT--40 Band-edge 2483.5 MHz

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ARUB20 AP-124 (ANT-8)
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 b (2390 2412 MHz)BE | 19 | 16.86 | 16.72 | 17.52 | 22.68 |
| Legacy g (2390 2412 MHz)BE | 17 | 15.06 | 14.36 | 15.07 | 20.37 |
| Legacy b (2483.5 2462 MHz)BE | 19 | 16.58 | 16.74 | 17.11 | 22.39 |
| Legacy g (2483.5 2462 MHz)BE | 17 | 14.72 | 14.78 | 15.38 | 21.27 |
| HT-20 (2390 2412 MHz)BE | 17 | 15.02 | 14.31 | 15.48 | 20.54 |
| HT-20 (2483.5 2462 MHz)BE | 18 | 15.68 | 15.62 | 16.26 | 21.36 |
| HT-40 (2390 2422 MHz)BE | 15 | 12.97 | 12.58 | 13.47 | 18.19 |
| HT-40 (2483.5 2452 MHz)BE | 16 | 13.88 | 13.90 | 14.50 | 19.26 |
| Legacy b (2412 MHz)SE | 19 | 16.86 | 16.72 | 17.36 | 22.68 |
| Legacy b (2437 MHz)SE | 19 | 16.61 | 16.31 | 16.87 | 21.59 |
| Legacy b (2462 MHz)SE | 19 | 16.58 | 16.74 | 17.12 | 22.39 |
| Legacy g (2412 MHz)SE | 17 | 15.06 | 14.36 | 15.07 | 20.37 |
| Legacy g (2437 MHz)SE | 17 | 14.63 | 14.37 | 15.55 | 20.40 |
| Legacy g (2462 MHz)SE | 17 | 14.72 | 14.78 | 15.38 | 21.27 |
| HT-20 (2412 MHz)SE | 19 | 16.84 | 16.57 | 17.60 | 22.40 |
| HT-20 (2437 MHz)SE | 19 | 16.64 | 16.40 | 17.06 | 22.36 |
| HT-20 (2462 MHz)SE | 19 | 16.71 | 16.75 | 17.16 | 22.35 |
| HT-40 (2422 MHz)SE | 19 | 17.30 | 16.81 | 17.38 | 22.68 |
| HT-40 (2437 MHz)SE | 19 | 17.30 | 16.64 | 17.46 | 22.30 |
| HT-40 (2452 MHz)SE | 19 | 16.97 | 16.40 | 17.58 | 22.25 |

Note BE = Band-edge, SE – Spurious emissions



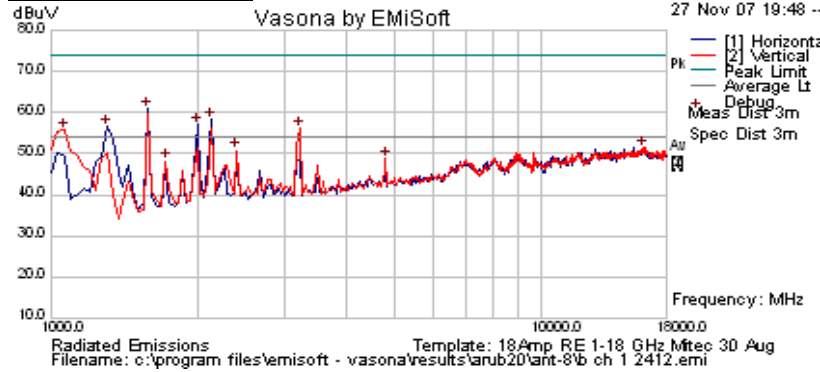
Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
Serial #: ARUB20-A2 Rev A
Issue Date: 11th December 2007
Page: 200 of 268

AP124: 2400 - 2483.5 MHz ANT-8 (5 dBi) Legacy Data Rates

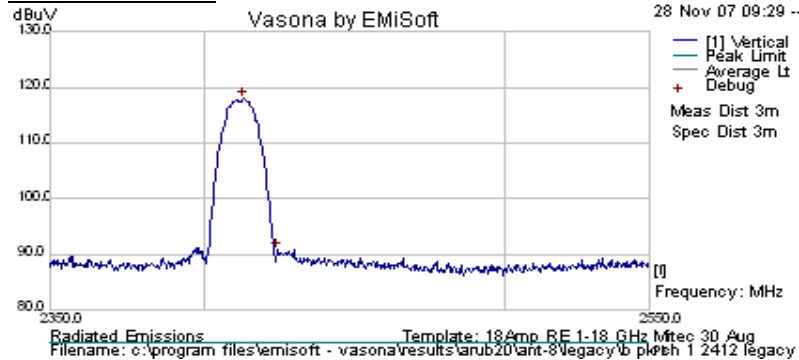
| AP124 - ANT-8 (5 dBi) Test Configuration | | | | | |
|--|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 1 | 2412 | ART 19 | 99% | B 1 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

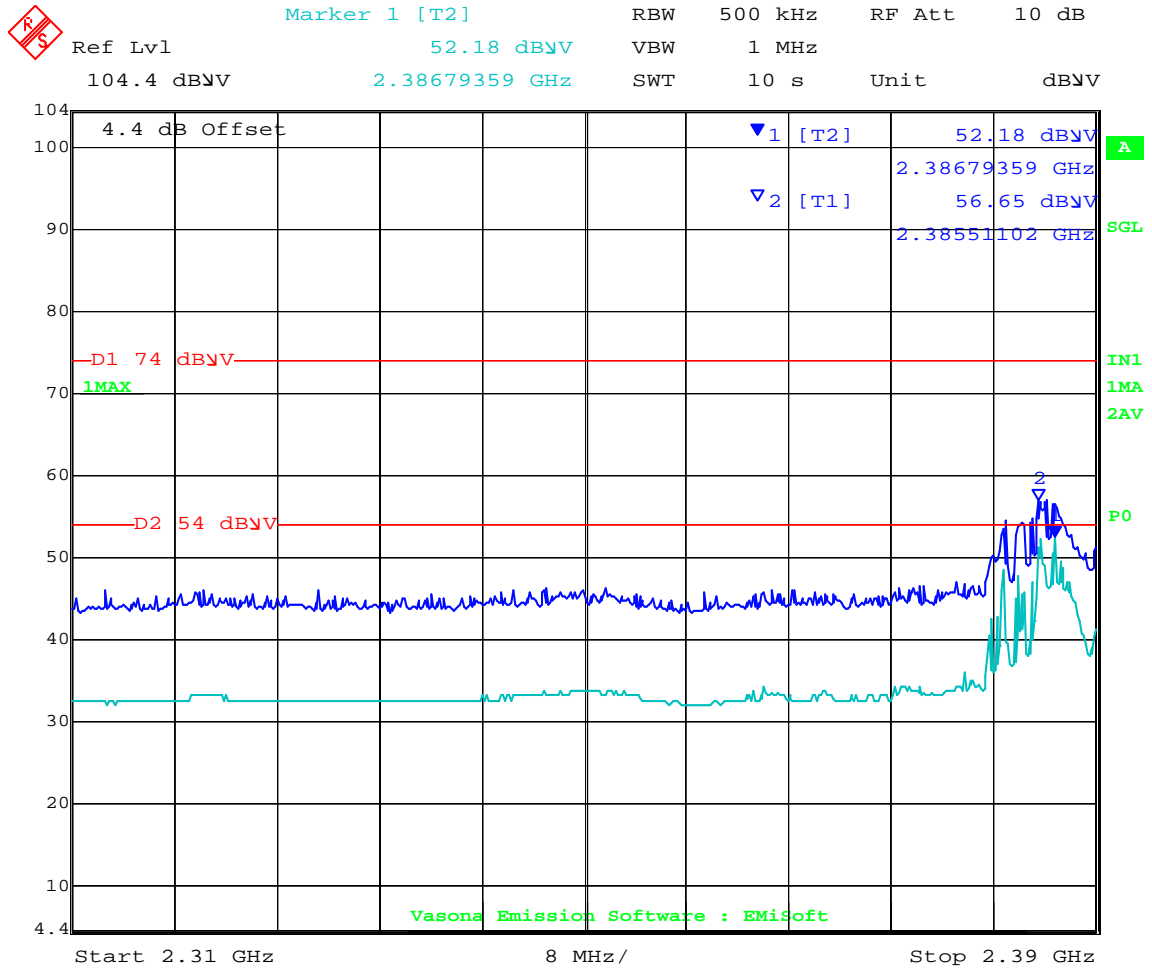


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2412.926 | 76.69 | 8.96 | 32.35 | 118 | Peak [Scan] | H | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2390.0 | ART Power Setting = 19 | | | 56.65 | Formal Peak | V | | | 74 | -17.35 | Pass | Band-edge |
| 2390.0 | ART Power Setting = 19 | | | 52.18 | Formal Average | V | | | 54 | -1.82 | Pass | Band-edge |

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Date: 1.DEC.2007 19:08:16

802.11b Legacy Band-edge 2390 MHz

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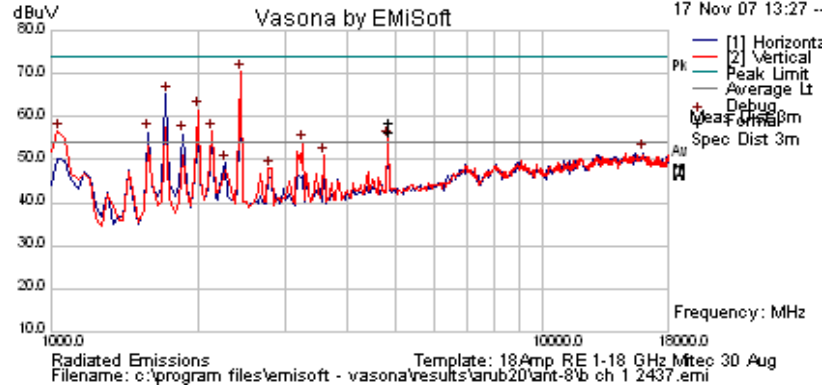


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
Serial #: ARUB20-A2 Rev A
Issue Date: 11th December 2007
Page: 202 of 268

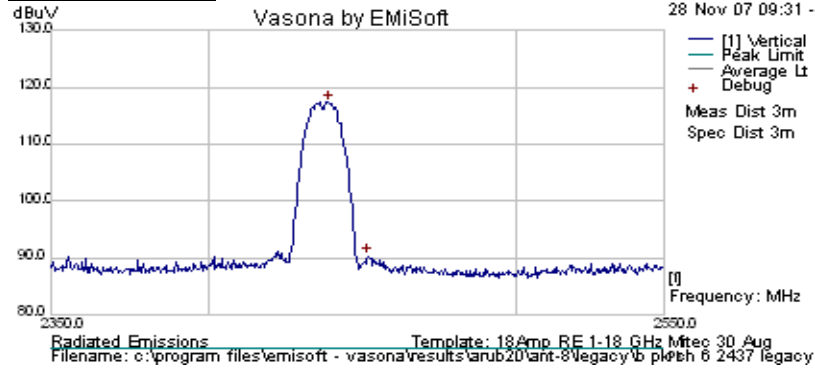
| AP124 - ANT-8 (5 dBi) Test Configuration | | | | | | |
|--|------------|----------|-------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software | Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 6 | 2437 | ART | 19 | 99% | B 1 MBit/s Legacy | Yes |

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 |
|---------------|----------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2438.577 | 76.06 | 8.97 | 32.37 | 117.4 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 4873.982 | 62.39 | 4.51 | -9.16 | 57.74 | Peak Max | V | 98 | 130 | 74 | -16.26 | Pass | |
| 1033.079 | 62.53 | 1.98 | -16.06 | 48.45 | Peak Max | V | 102 | 16 | 74 | -25.55 | Pass | |
| 1604.609 | 65.54 | 2.46 | -14.27 | 53.73 | Peak Max | V | 98 | 74 | 74 | -20.27 | Pass | |
| 2260.521 | 60.86 | 2.89 | -11.02 | 52.73 | Peak Max | V | 122 | 218 | 74 | -21.27 | Pass | |
| 1624.807 | 56.53 | 2.48 | -14.09 | 44.92 | Peak Max | V | 98 | 190 | 74 | -29.08 | Pass | |
| 4873.982 | 57.68 | 4.51 | -9.16 | 53.03 | Average Max | V | 98 | 130 | 54 | -0.97 | Pass | |
| 1033.079 | 46.39 | 1.98 | -16.06 | 32.31 | Average Max | V | 102 | 16 | 54 | -21.69 | Pass | |
| 1604.609 | 50.98 | 2.46 | -14.27 | 39.17 | Average Max | H | 100 | 309 | 54 | -14.83 | Pass | |
| 2260.521 | 43.26 | 2.89 | -11.02 | 35.13 | Average Max | V | 122 | 218 | 54 | -18.87 | Pass | |
| 1624.807 | 50.98 | 2.48 | -14.09 | 39.37 | Average Max | V | 98 | 190 | 54 | -14.63 | Pass | |

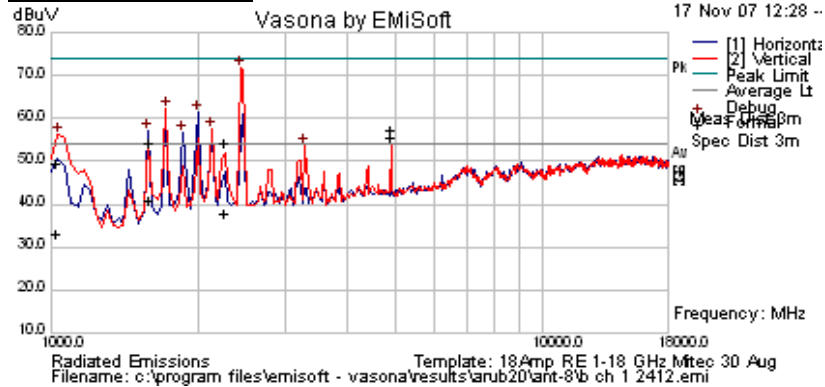
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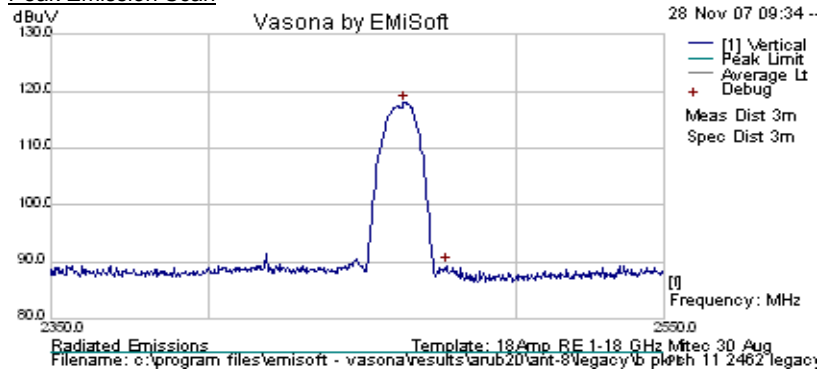
| AP124 - ANT-8 (5 dBi) Test Configuration | | | | | |
|--|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 11 | 2462 | ART 19 | 99% | B 1 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

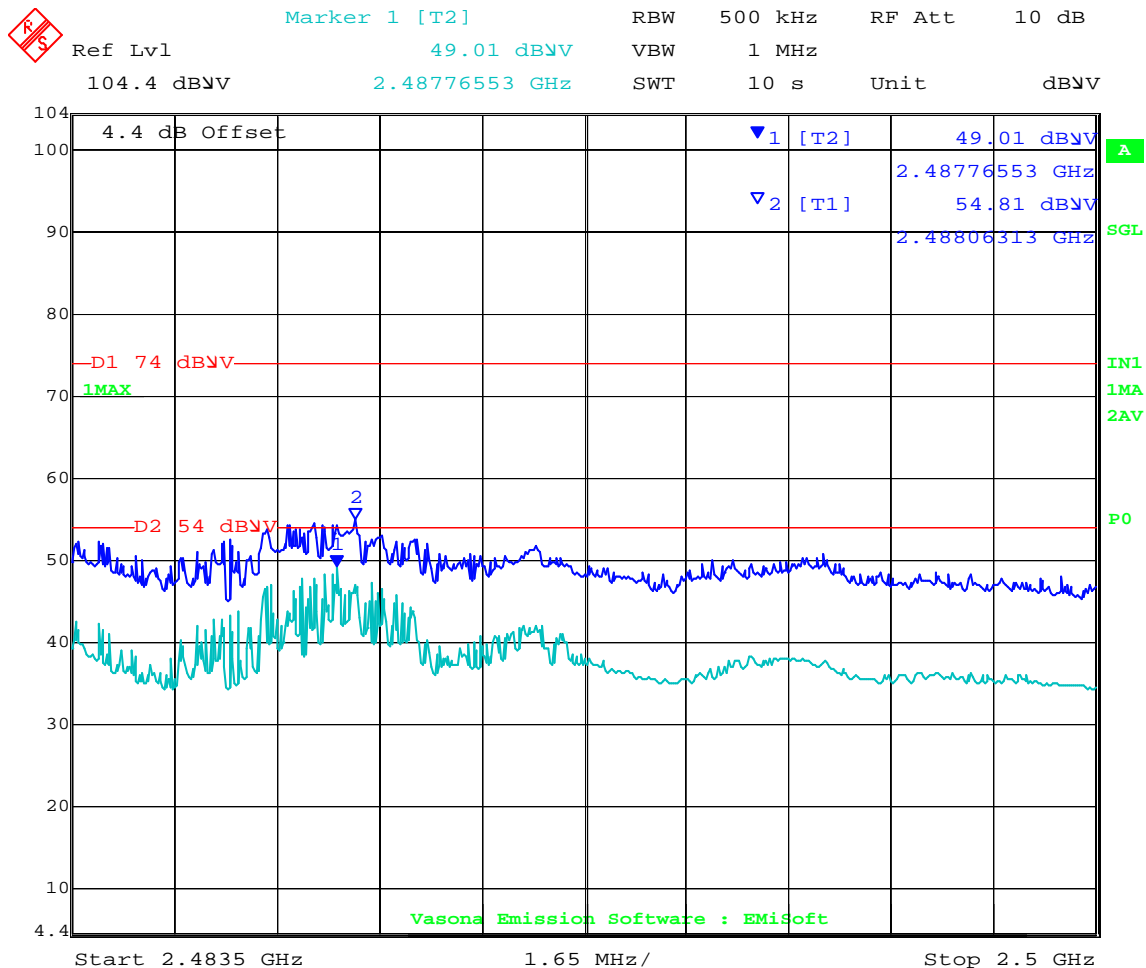


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2463.026 | 76.67 | 8.98 | 32.38 | 118.04 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 19 | | | 54.81 | Formal Peak | V | | | 74 | -19.19 | Pass | Band-edge |
| 2483.5 | ART Power Setting = 19 | | | 49.01 | Formal Average | V | | | 54 | -4.99 | Pass | Band-edge |
| 1594.699 | 64.26 | 2.45 | -14.36 | 52.35 | Peak Max | V | 98 | 329 | 74 | -21.65 | Pass | |
| 1031.383 | 61.55 | 1.98 | -16.07 | 47.46 | Peak Max | V | 107 | 16 | 74 | -26.54 | Pass | |
| 4923.973 | 60.02 | 4.55 | -9.25 | 55.32 | Peak Max | V | 98 | 128 | 74 | -18.68 | Pass | |
| 2265.852 | 60.16 | 2.89 | -11.01 | 52.03 | Peak Max | V | 98 | 255 | 74 | -21.97 | Pass | |
| 1594.699 | 50.66 | 2.45 | -14.36 | 38.75 | Average Max | H | 136 | 305 | 54 | -15.25 | Pass | |
| 1031.383 | 45.03 | 1.98 | -16.07 | 30.94 | Average Max | V | 107 | 16 | 54 | -23.06 | Pass | |
| 4923.973 | 58.1 | 4.55 | -9.25 | 53.41 | Average Max | H | 98 | 130 | 54 | -0.59 | Pass | |
| 2265.852 | 43.84 | 2.89 | -11.01 | 35.72 | Average Max | H | 98 | 250 | 54 | -18.28 | Pass | |

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Date: 1.DEC.2007 19:16:08

802.11b Legacy Band-edge 2483.5 MHz

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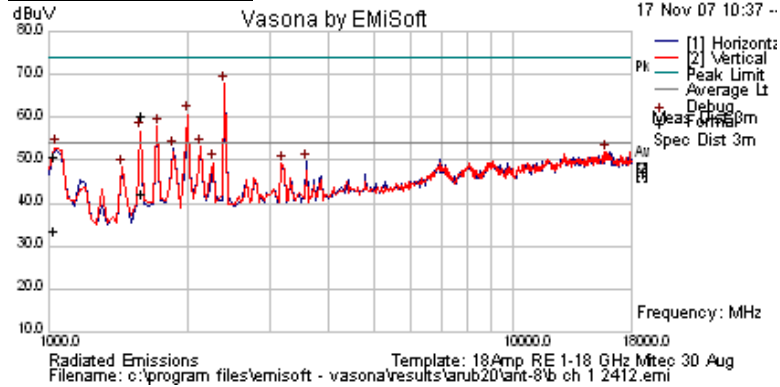


AP124: 2400 - 2483.5 MHz ANT-8 (5 dBi) Legacy Data Rates

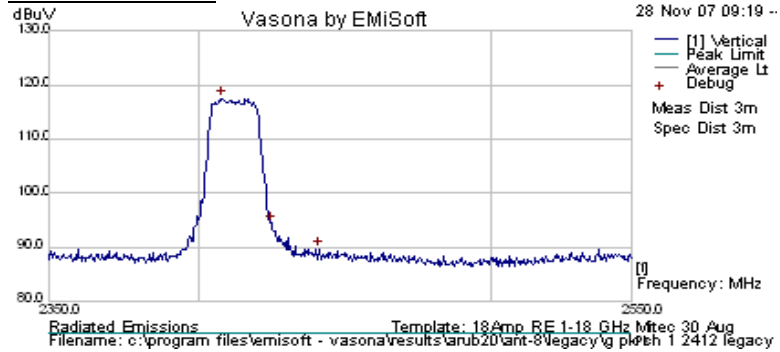
| AP124 - ANT-8 (5 dBi) Test Configuration | | | | | |
|--|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 1 | 2412 | ART 17 | 99% | G 6 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

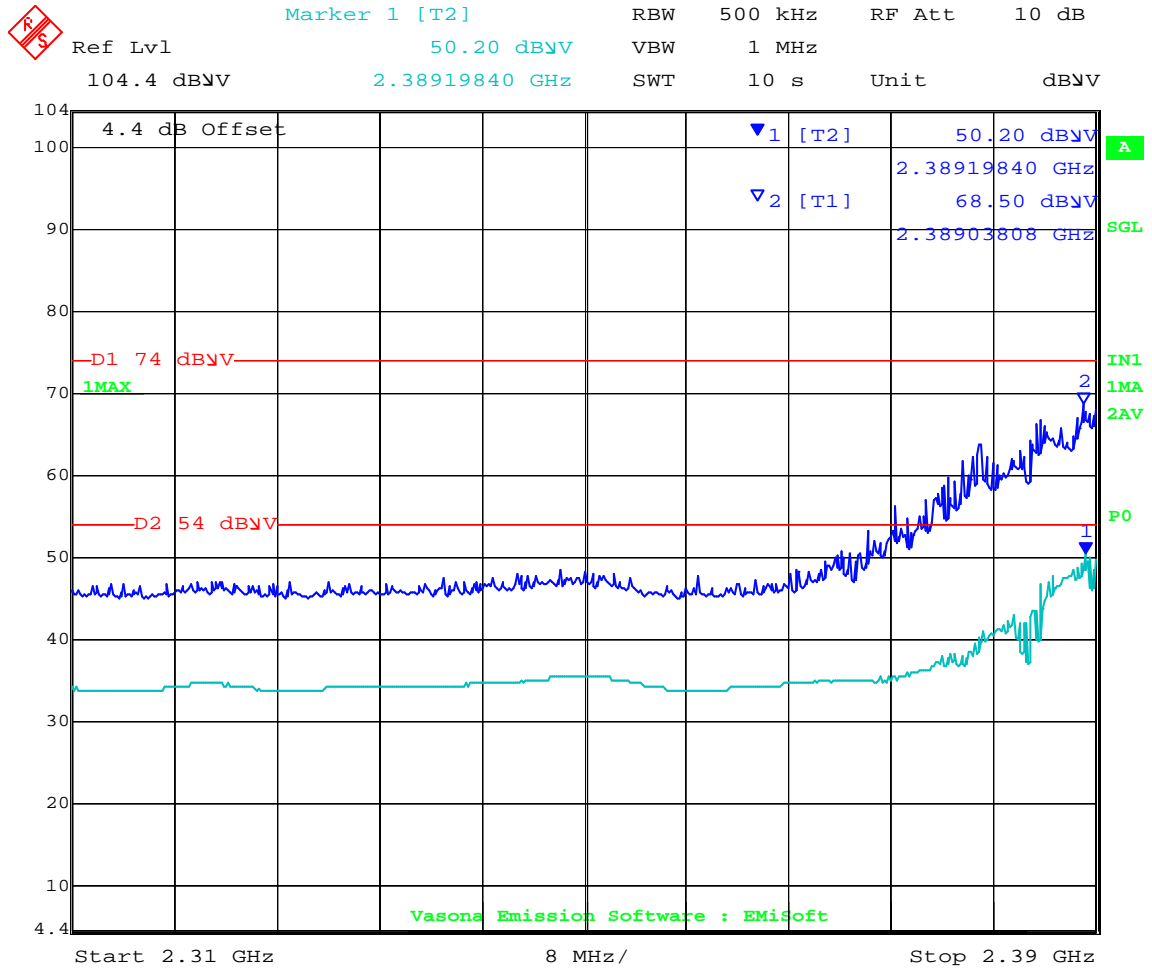


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2408.116 | 76.18 | 8.96 | 32.35 | 117.49 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2390.0 | ART Power Setting = 17 | | | 68.50 | Formal Peak | V | | | 74 | -5.5 | Pass | Band-edge |
| 2390.0 | | | | 50.20 | Formal Average | V | | | 54 | -3.8 | Pass | Band-edge |
| 1594.469 | 70.29 | 2.45 | -14.37 | 58.38 | Peak Max | H | 136 | 299 | 74 | -15.62 | Pass | |
| 1030.1 | 62.95 | 1.98 | -16.07 | 48.86 | Peak Max | V | 106 | 185 | 74 | -25.14 | Pass | |
| 1594.469 | 51.89 | 2.45 | -14.37 | 39.98 | Average Max | H | 136 | 299 | 54 | -14.02 | Pass | |
| 1030.1 | 45.38 | 1.98 | -16.07 | 31.29 | Average Max | V | 106 | 185 | 54 | -22.71 | Pass | |
| 1987.976 | 69.28 | 2.74 | -11.26 | 60.76 | Peak [Scan] | V | 100 | 0 | 97.49 | -36.73 | Pass | NRB |
| 1715.431 | 68.7 | 2.55 | -13.44 | 57.81 | Peak [Scan] | V | 100 | 0 | 97.49 | -39.68 | Pass | NRB |
| 2124.248 | 61.34 | 2.82 | -11.03 | 53.13 | Peak [Scan] | V | 100 | 0 | 97.49 | -44.36 | Pass | NRB |
| 1851.703 | 62.6 | 2.65 | -12.42 | 52.83 | Peak [Scan] | H | 100 | 0 | 97.49 | -44.66 | Pass | NRB |
| 3589.178 | 57.61 | 3.66 | -11.49 | 49.78 | Peak [Scan] | H | 100 | 0 | 97.49 | -47.71 | Pass | NRB |

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Date: 1.DEC.2007 19:06:14

802.11g Legacy Band-edge 2390 MHz

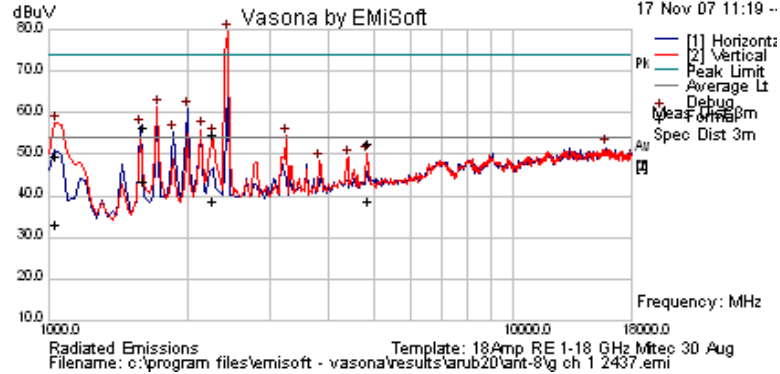
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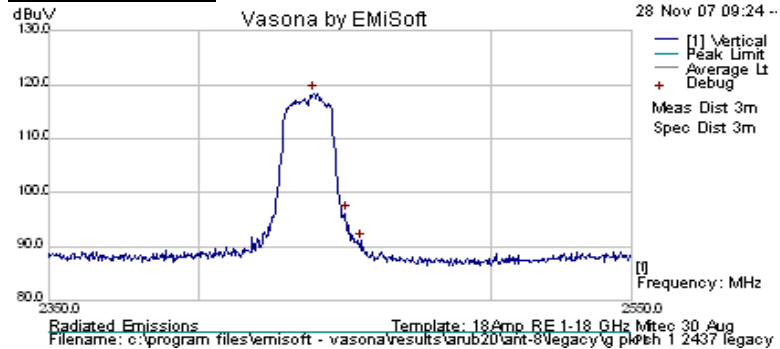
| AP124 - ANT-8 (5 dBi) Test Configuration | | | | | |
|--|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 6 | 2437 | ART 17 | 99% | G 6 MBit/s Legacy | Yes |

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 |
|---------------|----------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2438.978 | 77.07 | 8.97 | 32.37 | 118.41 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 1034.349 | 61.69 | 1.98 | -16.06 | 47.61 | Peak Max | V | 100 | 41 | 74 | -26.39 | Pass | |
| 1595.711 | 66.44 | 2.45 | -14.35 | 54.54 | Peak Max | V | 98 | 205 | 74 | -19.46 | Pass | |
| 2263.607 | 61 | 2.89 | -11.02 | 52.87 | Peak Max | V | 98 | 211 | 74 | -21.13 | Pass | |
| 4875.31 | 55.15 | 4.51 | -9.16 | 50.5 | Peak Max | V | 120 | 157 | 74 | -23.5 | Pass | |
| 1034.349 | 44.96 | 1.98 | -16.06 | 30.89 | Average Max | V | 100 | 41 | 54 | -23.11 | Pass | |
| 1595.711 | 53.32 | 2.45 | -14.35 | 41.42 | Average Max | H | 134 | 299 | 54 | -12.58 | Pass | |
| 2263.607 | 44.76 | 2.89 | -11.02 | 36.64 | Average Max | V | 98 | 211 | 54 | -17.36 | Pass | |
| 4875.31 | 41.37 | 4.51 | -9.16 | 36.72 | Average Max | V | 120 | 157 | 54 | -17.28 | Pass | |
| 1728.777 | 72.3 | 2.6 | -13.3 | 61.48 | Peak [Scan] | V | 100 | 0 | 98.41 | -36.93 | Pass | NRB |
| 1987.976 | 69.42 | 2.74 | -11.26 | 60.9 | Peak [Scan] | H | 100 | 0 | 98.41 | -37.51 | Pass | NRB |
| 2139.719 | 64.2 | 2.8 | -11.1 | 55.93 | Peak [Scan] | V | 100 | 0 | 98.41 | -42.48 | Pass | NRB |
| 1851.703 | 65 | 2.65 | -12.42 | 55.23 | Peak [Scan] | H | 100 | 0 | 98.41 | -43.18 | Pass | NRB |
| 3248.497 | 62.57 | 3.49 | -11.64 | 54.42 | Peak [Scan] | V | 100 | 0 | 98.41 | -43.99 | Pass | NRB |

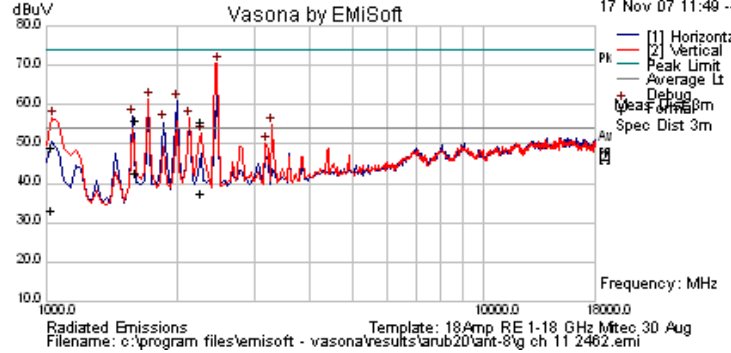
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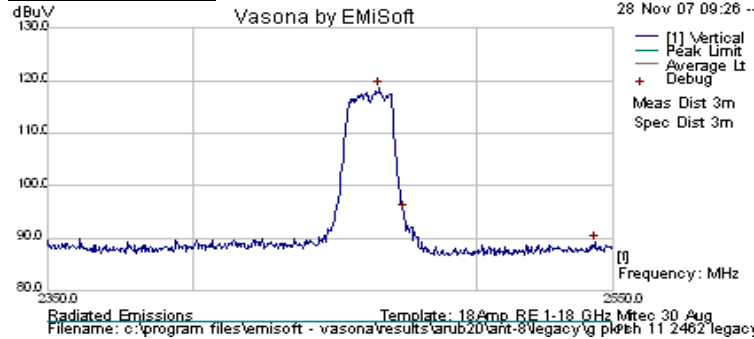
| AP124 - ANT-8 (5 dBi) Test Configuration | | | | | |
|--|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 11 | 2462 | ART 17 | 99% | G 6 MBit/s Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

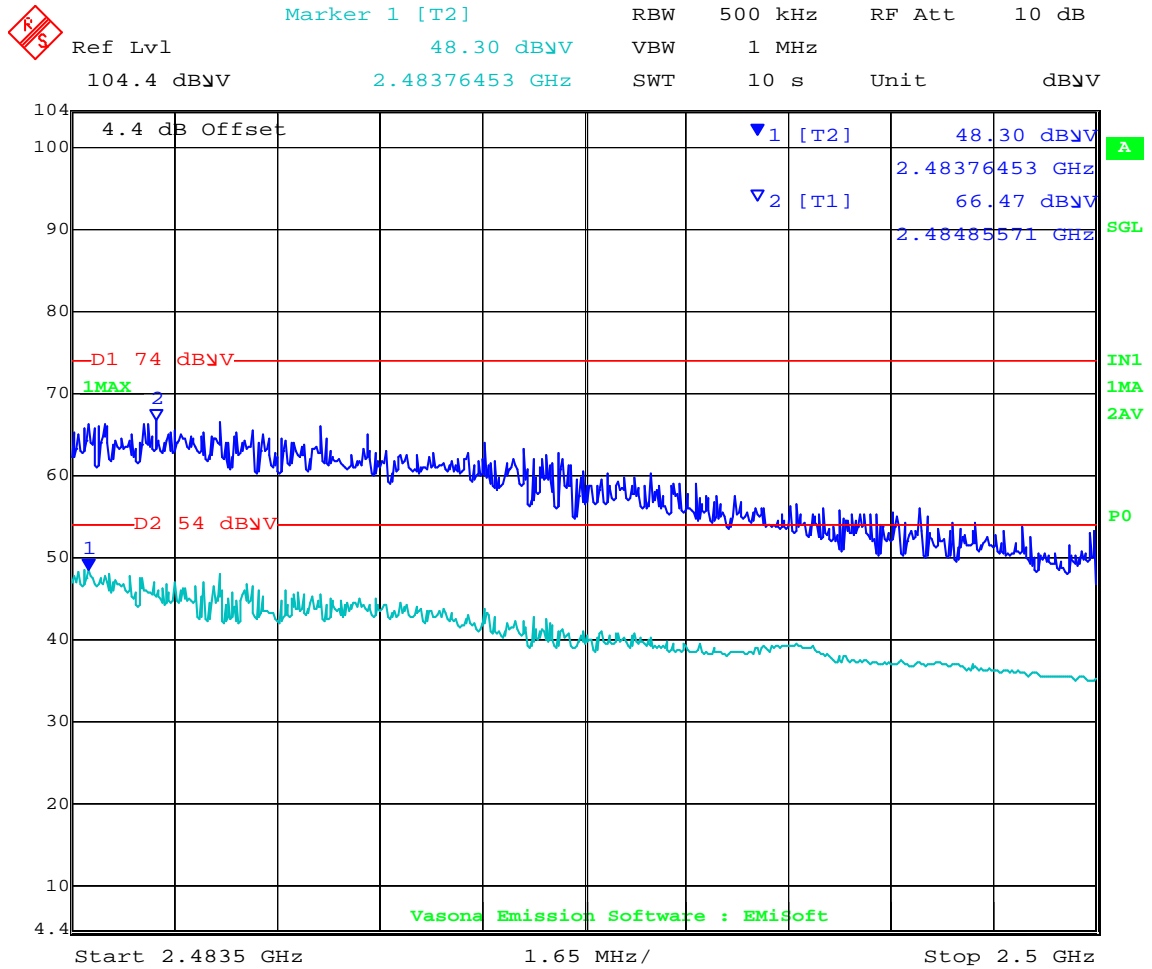


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2465.431 | 77.15 | 8.98 | 32.38 | 118.52 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 17 | | | 66.47 | Formal Peak | V | | | 74 | -7.53 | Pass | Band-edge |
| 2483.5 | | | | 48.30 | Formal Average | V | | | 54 | -5.70 | Pass | Band-edge |
| 1595.741 | 65.8 | 2.45 | -14.35 | 53.9 | Peak Max | V | 98 | 210 | 74 | -20.1 | Pass | |
| 1032.224 | 61.28 | 1.98 | -16.07 | 47.19 | Peak Max | V | 108 | 10 | 74 | -26.81 | Pass | |
| 2258.607 | 61.82 | 2.89 | -11.02 | 53.69 | Peak Max | V | 98 | 217 | 74 | -20.31 | Pass | |
| 1595.741 | 52.46 | 2.45 | -14.35 | 40.56 | Average Max | H | 134 | 296 | 54 | -13.44 | Pass | |
| 1032.224 | 45.04 | 1.98 | -16.07 | 30.95 | Average Max | V | 108 | 10 | 54 | -23.05 | Pass | |
| 2258.607 | 43.68 | 2.89 | -11.02 | 35.55 | Average Max | V | 98 | 217 | 54 | -18.45 | Pass | |
| 1715.431 | 72.41 | 2.55 | -13.44 | 61.52 | Peak [Scan] | V | 100 | 0 | 98.52 | -37.00 | Pass | NRB |
| 1987.976 | 69.4 | 2.74 | -11.26 | 60.88 | Peak [Scan] | H | 100 | 0 | 98.52 | -37.64 | Pass | NRB |
| 2124.248 | 64.93 | 2.82 | -11.03 | 56.72 | Peak [Scan] | V | 100 | 0 | 98.52 | -41.80 | Pass | NRB |
| 1851.703 | 65.36 | 2.65 | -12.42 | 55.59 | Peak [Scan] | H | 100 | 0 | 98.52 | -42.93 | Pass | NRB |
| 3282.565 | 63.06 | 3.51 | -11.56 | 55.01 | Peak [Scan] | V | 100 | 0 | 98.52 | -43.51 | Pass | NRB |
| 3180.361 | 58.43 | 3.46 | -11.63 | 50.27 | Peak [Scan] | V | 100 | 0 | 98.52 | -48.25 | Pass | NRB |

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Date: 1.DEC.2007 19:17:13

802.11g Legacy Band-edge 2483.5 MHz

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Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
Serial #: ARUB20-A2 Rev A
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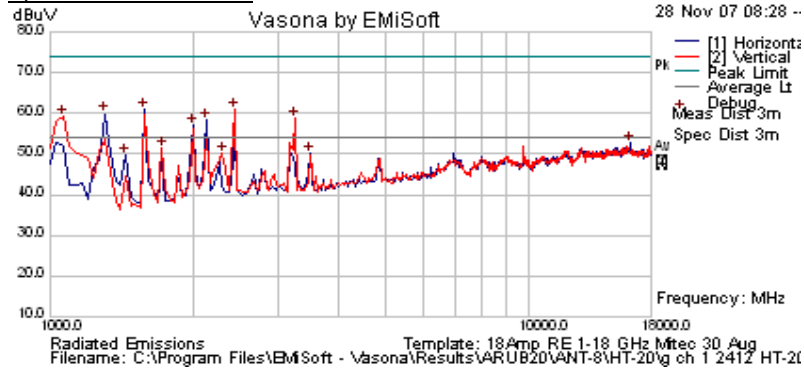
AP124: 2400 - 2483.5 MHz ANT 8 HT-20 Data Rates

| AP124 - ANT 8 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 1 | 2412 | ART 19 | 99% | G 6.5 MCS HT-20 | Yes |

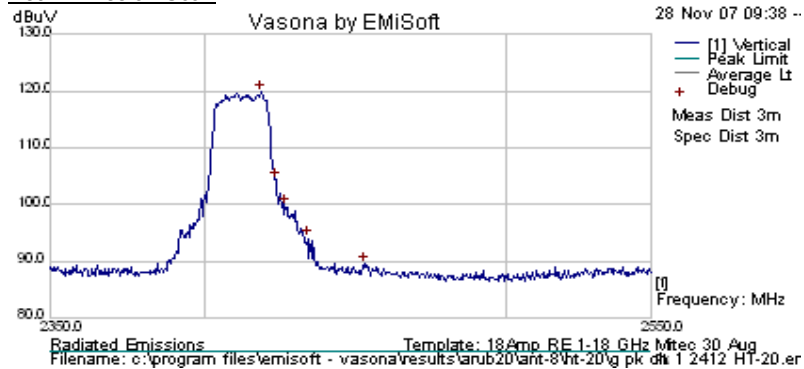
Three antennas operating simultaneously

NRB = None Restrictive Band

Spurious Emission Scan

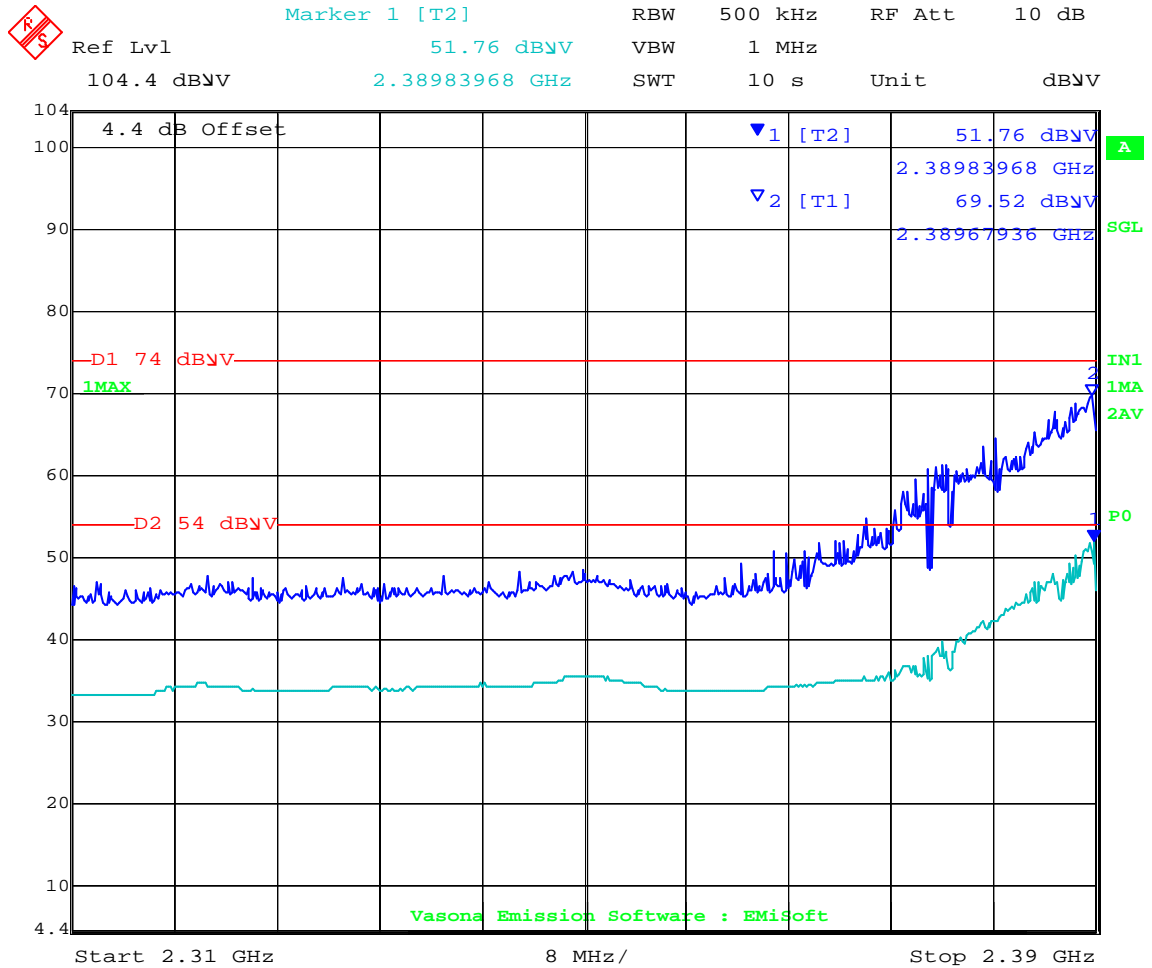


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2418.537 | 78.44 | 8.96 | 32.36 | 119.76 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2390.0 | ART Power Setting = 17 | | | 69.52 | Formal Peak | V | | | 74 | -4.48 | Pass | Band-edge |
| 2390.0 | | | | 51.76 | Formal Average | V | | | 54 | -2.24 | Pass | Band-edge |

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Date: 1.DEC.2007 19:09:30

802.11n HT--20 Band-edge 2390 MHz

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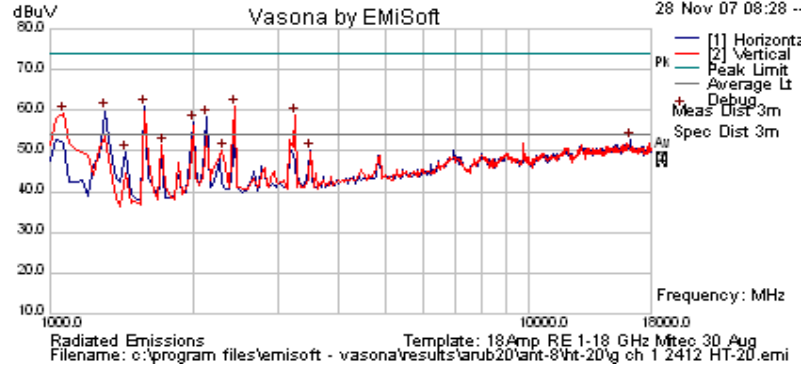


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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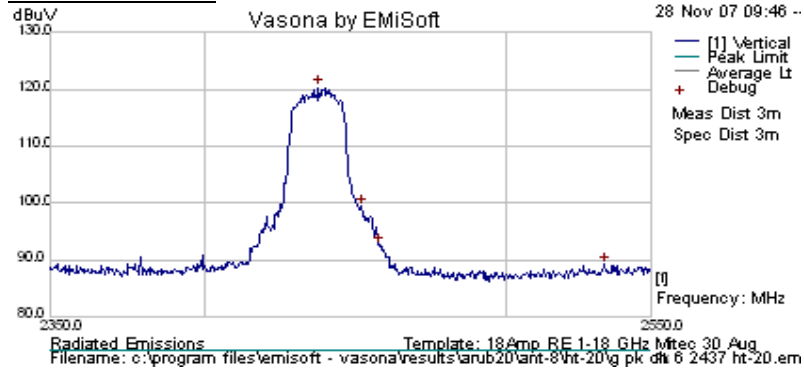
| AP124 - ANT 8 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 6 | 2437 | ART 19 | 99% | G 6.5 MCS HT-20 | 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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2437.375 | 78.95 | 8.97 | 32.37 | 120.29 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |

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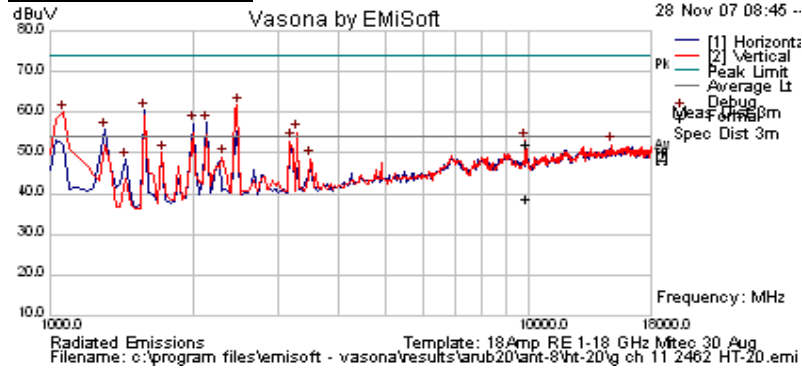


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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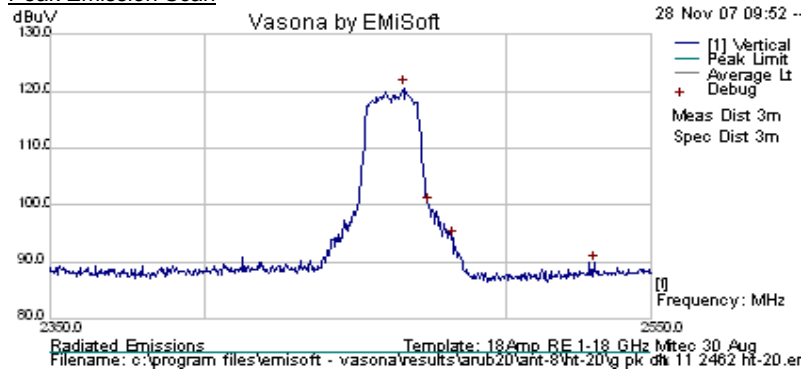
| AP124 - ANT 8 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 11 | 2462 | ART 19 | 99% | G 6.5 MCS HT-20 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

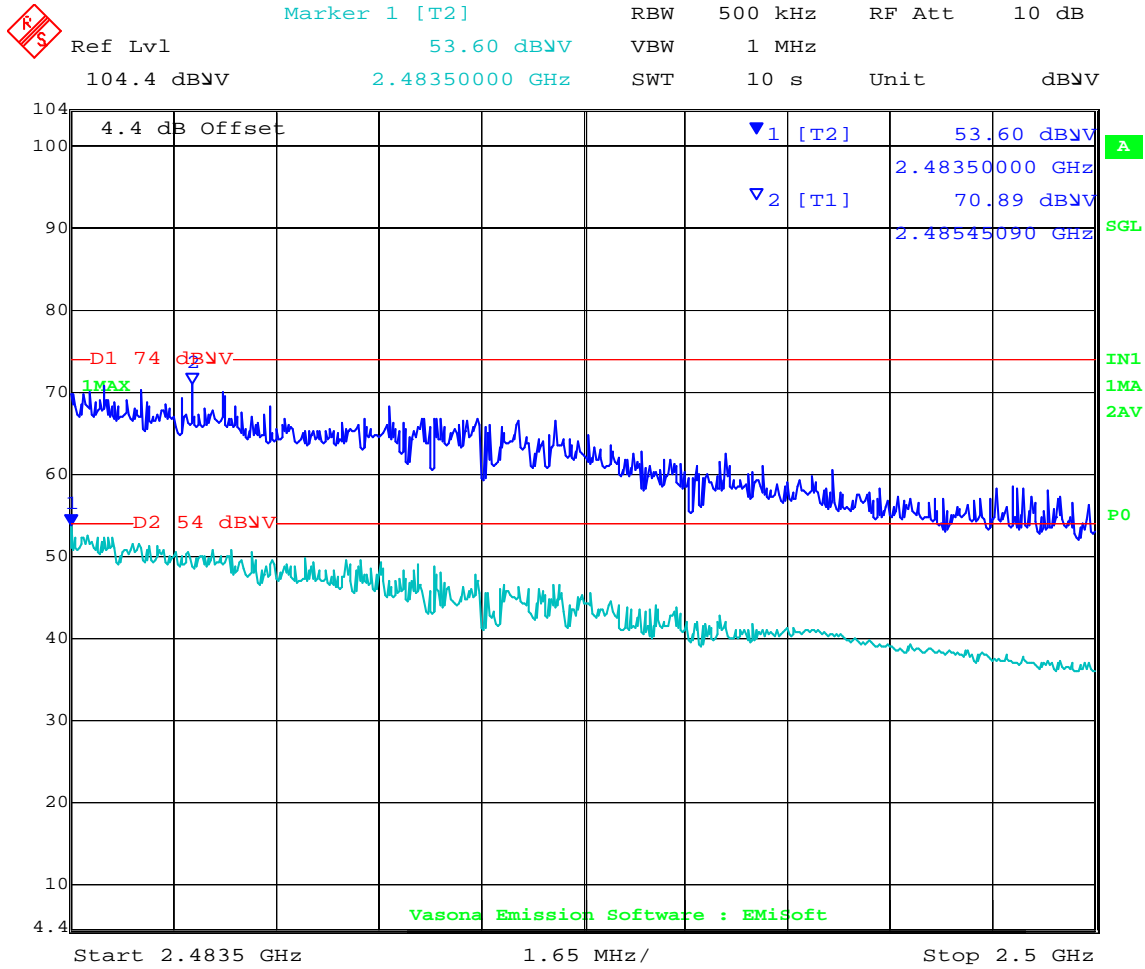


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2465.832 | 79.23 | 8.98 | 32.38 | 120.6 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 18 | | | 70.89 | Formal Peak | V | | | 74 | -3.11 | Pass | Band-edge |
| 2483.5 | ART Power Setting = 18 | | | 53.60 | Formal Average | V | | | 54 | -0.4 | Pass | Band-edge |
| 9849.643 | 45.25 | 6.4 | -1.44 | 50.21 | Peak Max | V | 104 | 335 | 74 | -23.79 | Pass | |
| 9849.643 | 31.87 | 6.4 | -1.44 | 36.83 | Average Max | V | 104 | 335 | 54 | -17.17 | Pass | |

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Title: Aruba AP-124,125 802.11a/b/g/n AP
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802.11n HT--20 Band-edge 2483.5 MHz

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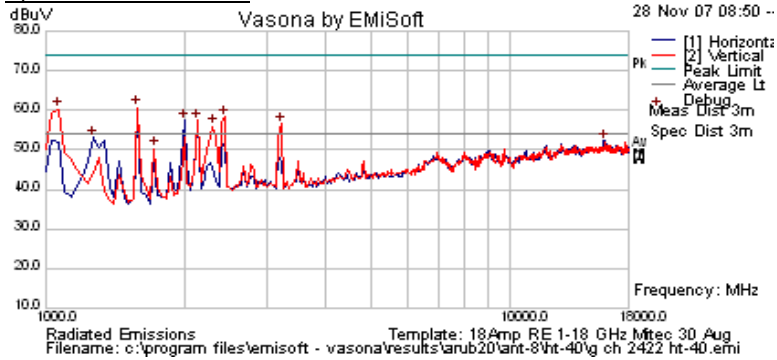
AP124: 2400 - 2483.5 MHz ANT 8 HT-40 Data Rates

| AP124 - ANT 8 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 3 | 2422 | ART 19 | 99% | G 13.5 MCS HT-40 | Yes |

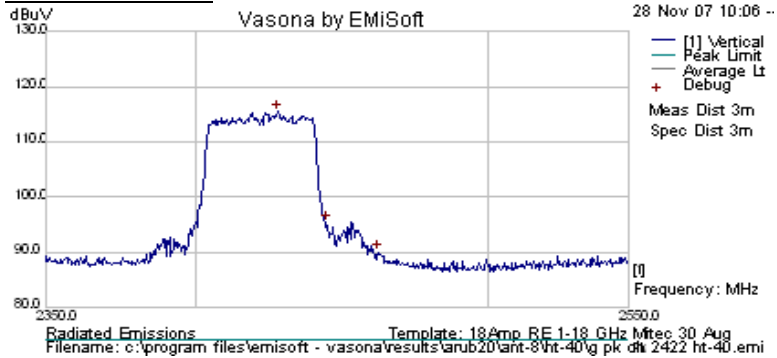
Three antennas operating simultaneously

NRB = None Restrictive Band

Spurious Emission Scan

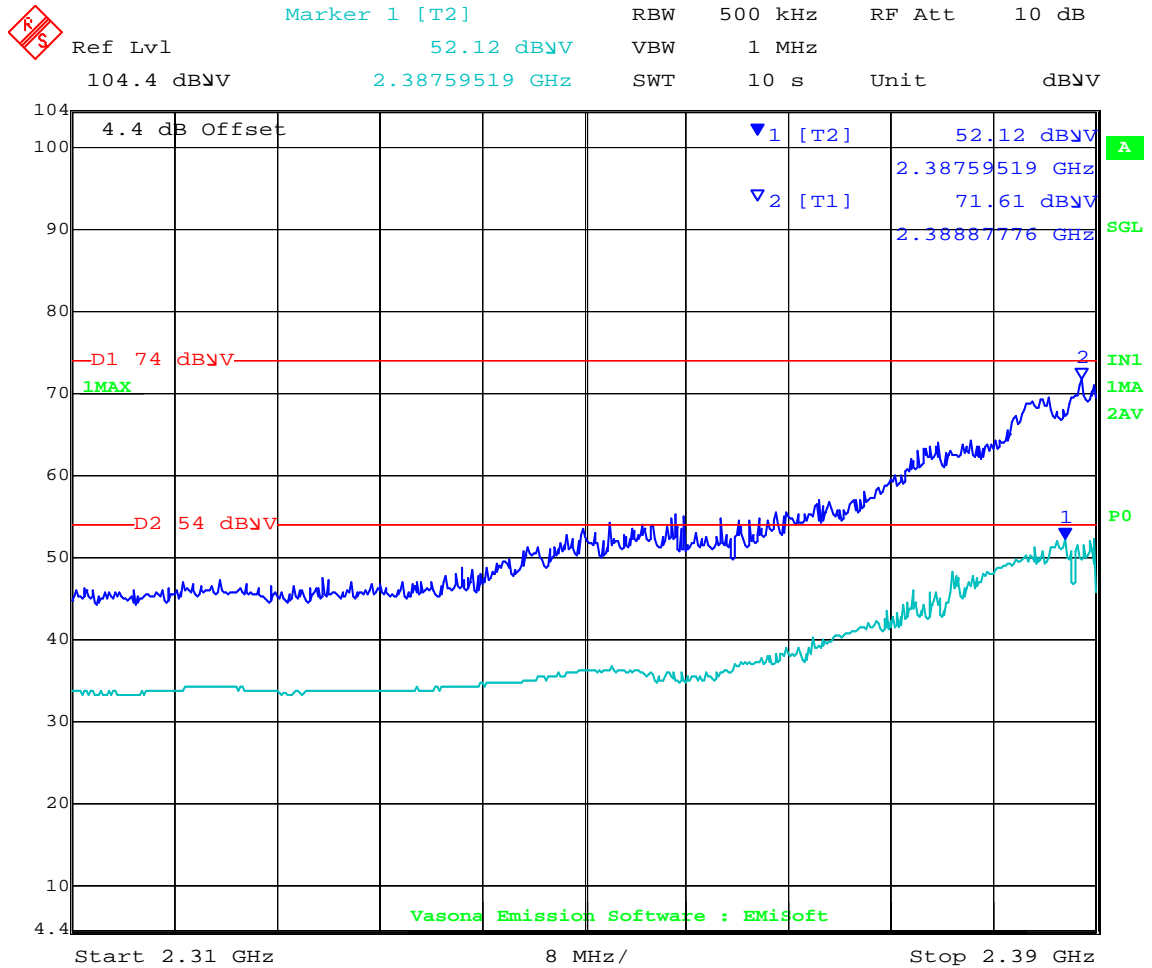


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2427.756 | 74.13 | 8.97 | 32.36 | 115.45 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2390.0 | ART Power Setting = 15 | | | 71.61 | Formal Peak | V | | | 74 | -2.39 | Pass | Band-edge |
| 2390.0 | ART Power Setting = 15 | | | 52.12 | Formal Average | V | | | 54 | -1.88 | Pass | Band-edge |

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Date: 1.DEC.2007 19:11:00

802.11n HT--40 Band-edge 2390 MHz

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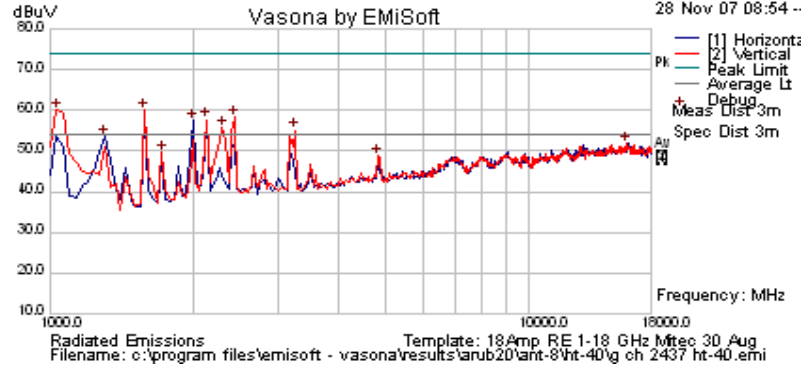


Title: Aruba AP-124,125 802.11a/b/g/n AP
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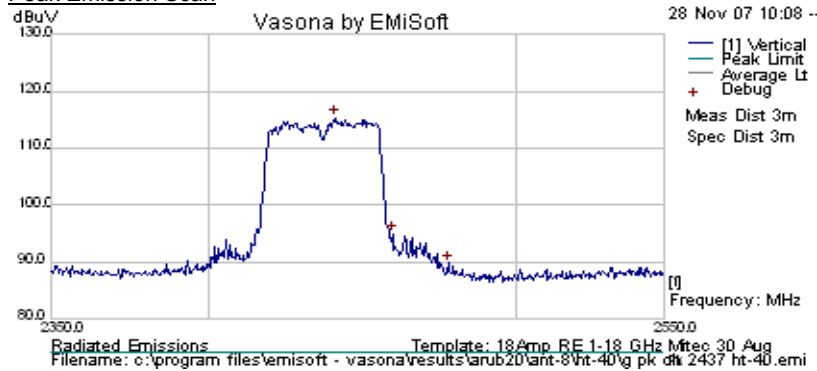
| AP124 - ANT 8 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 6 | 2437 | ART 19 | 99% | G 13.5 MCS HT-40 | 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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2440.581 | 74 | 8.97 | 32.37 | 115.34 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |

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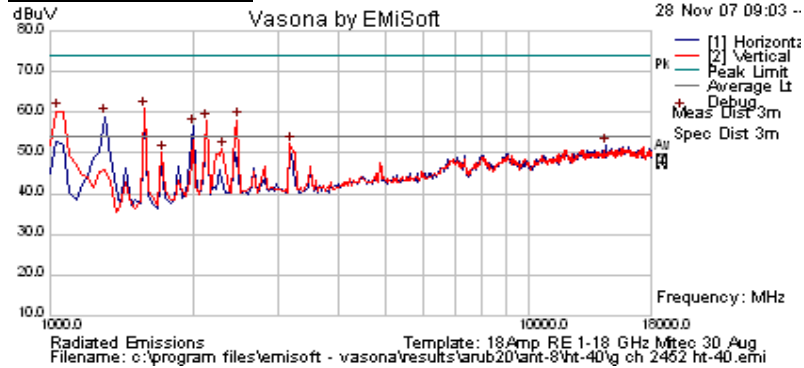


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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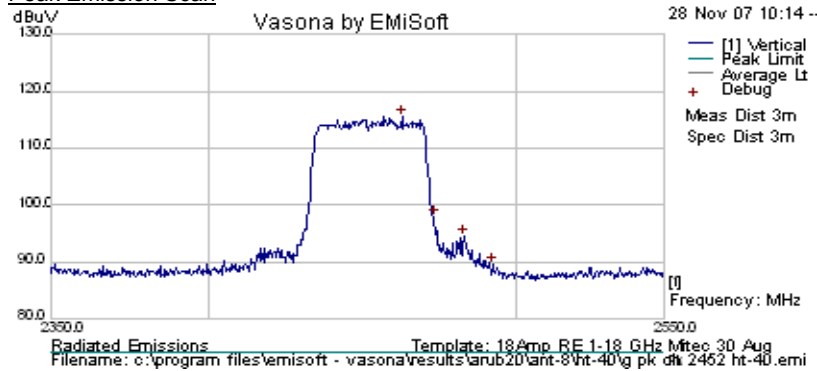
| AP124 - ANT 8 Test Configuration | | | | | |
|----------------------------------|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 9 | 2452 | ART 19 | 99% | G 13.5 MCS HT-40 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

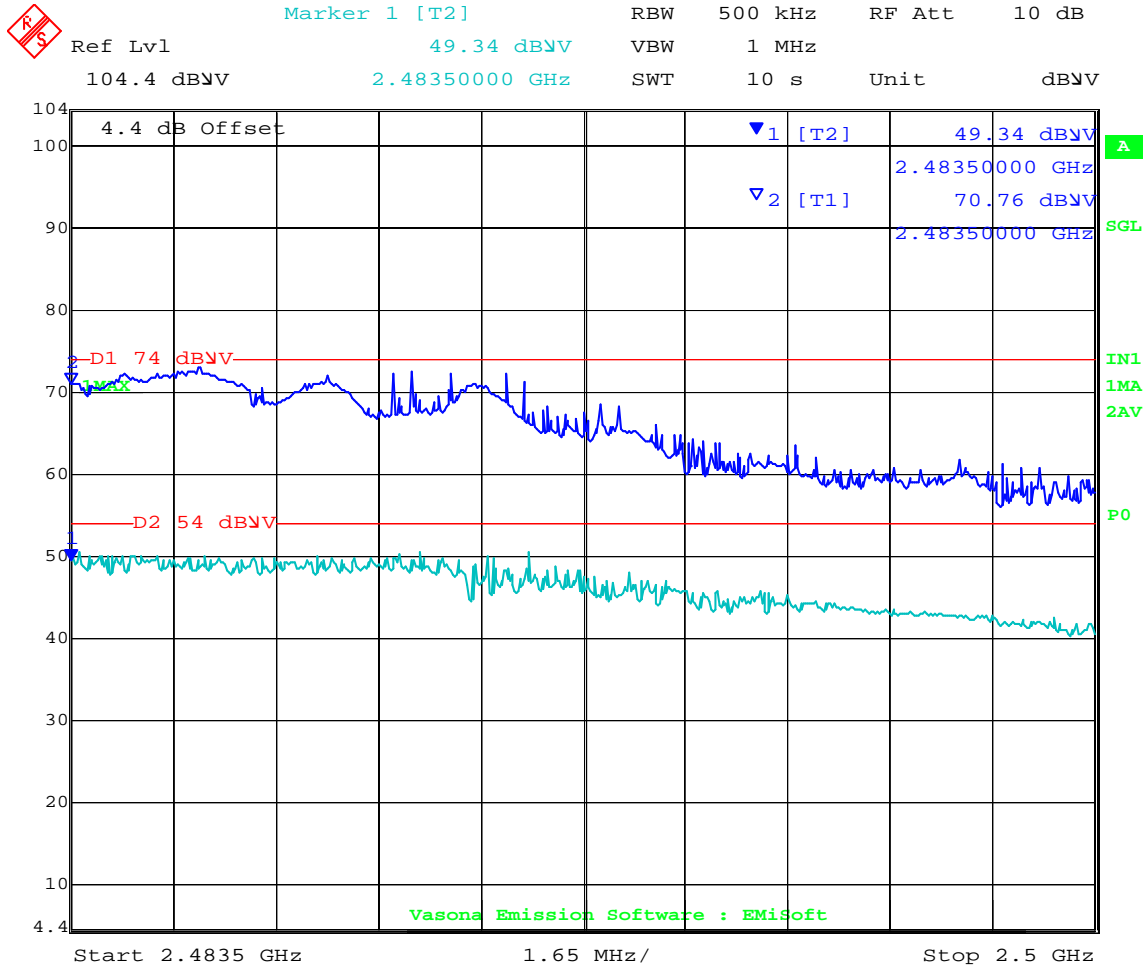


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 2462.625 | 74.18 | 8.98 | 32.38 | 115.54 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 2483.5 | ART Power Setting = 16 | | | 70.76 | Formal Peak | V | | | 74 | -3.24 | Pass | Band-edge |
| 2483.5 | ART Power Setting = 16 | | | 49.34 | Formal Average | V | | | 54 | -4.66 | Pass | Band-edge |

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Title: Aruba AP-124,125 802.11a/b/g/n AP
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Date: 1.DEC.2007 19:13:10

802.11n HT--40 Band-edge 2483.5 MHz

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ARUB20 AP-124 (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 (5460 5150 5745 MHz)BE | 16 | 13.10 | 12.95 | 14.10 | 19.02 |
| HT-20 (5460 5150 5745 MHz)BE | 16 | 13.00 | 13.00 | 13.84 | 18.87 |
| HT-40 (5150 5190 5755 MHz)BE | 14 | 10.67 | 10.65 | 11.48 | 16.76 |
| Legacy a (5745MHz)SE | 12 | 9.46 | 9.83 | 9.80 | 14.95 |
| Legacy a (5785 MHz)SE | 12 | 8.90 | 8.52 | 9.21 | 14.50 |
| Legacy a (5825 MHz)SE | 12 | 8.43 | 8.79 | 9.07 | 14.35 |
| HT-20 (5745 MHz)SE | 12 | 9.42 | 8.72 | 9.80 | 14.86 |
| HT-20 (5785 MHz)SE | 12 | 8.82 | 8.51 | 9.11 | 14.49 |
| HT-20 (5825 MHz)SE | 12 | 8.48 | 8.73 | 8.90 | 14.12 |
| HT-40 (5755 MHz)SE | 12 | 8.67 | 8.55 | 9.57 | 14.58 |
| HT-40 (5785 MHz)SE | 12 | 8.44 | 8.29 | 9.12 | 14.32 |
| HT-40 (5815 MHz)SE | 11.5 | 7.63 | 7.80 | 8.12 | 13.53 |

Note BE = Band-edge, SE – Spurious emissions

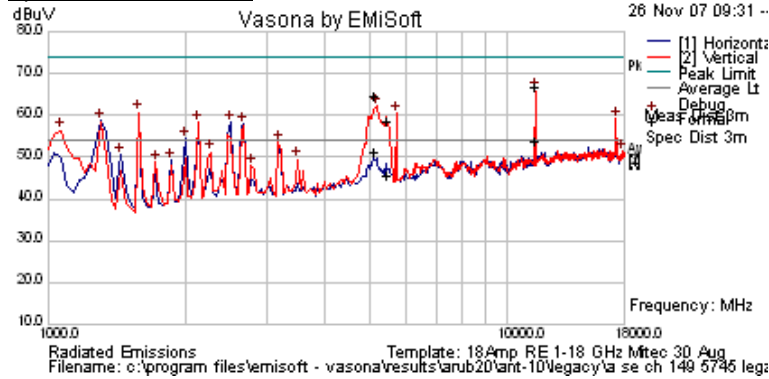


AP124: 5725-5850 MHz ANT-10 (6 dBi) Legacy Data Rates

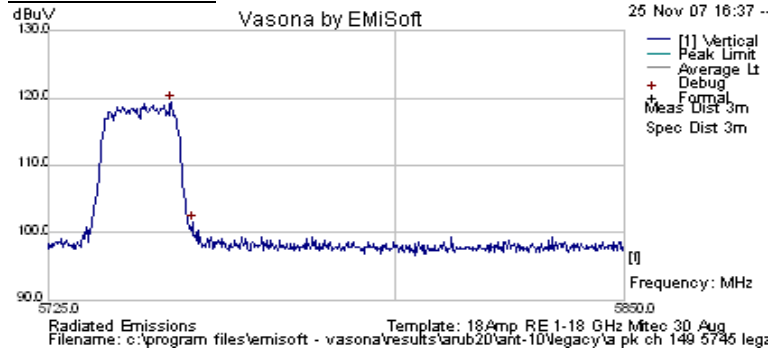
| AP124 - ANT-10 (6 dBi) Test Configuration | | | | | |
|---|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 149 | 5745 | ART 12 | 99% | 6 Legacy | Yes |

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 |
|---------------|--------------------------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5751.553 | 73.54 | 10.76 | 35.11 | 119.41 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 5460 | ART Power Setting = 16.0 | | | 60.50 | Formal Peak | V | | | 74 | -13.5 | Pass | Band-edge |
| 5460 | ART Power Setting = 16.0 | | | 49.00 | Formal Average | V | | | 54 | -5.00 | Pass | Band-edge |
| 5150 | ART Power Setting = 16.0 | | | 64.03 | Formal Peak | V | | | 74 | -9.97 | Pass | Band-edge |
| 5150 | ART Power Setting = 16.0 | | | 52.32 | Formal Average | V | | | 54 | -1.68 | Pass | Band-edge |
| 11493.32 | 59.65 | 6.79 | -1.72 | 64.72 | Peak Max | V | 138 | 72 | 74 | -9.28 | 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 | |
| 11493.32 | 46.53 | 6.79 | -1.72 | 51.61 | Average Max | V | 138 | 72 | 54 | -2.39 | 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 | |

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Date: 1.DEC.2007 16:46:25

802.11a Legacy Band-edge 5150, 5460MHz

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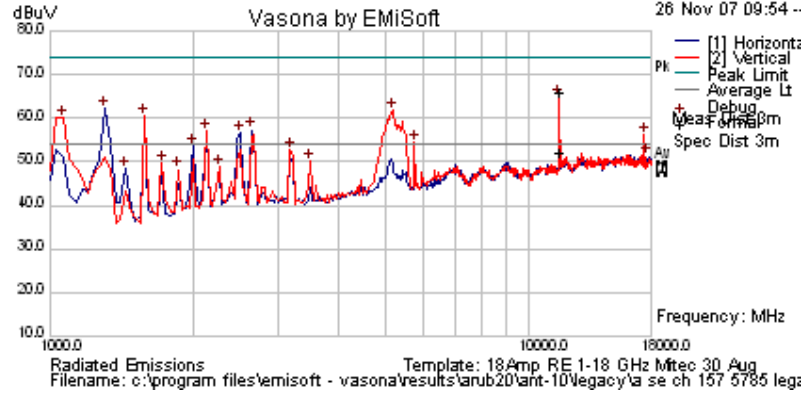


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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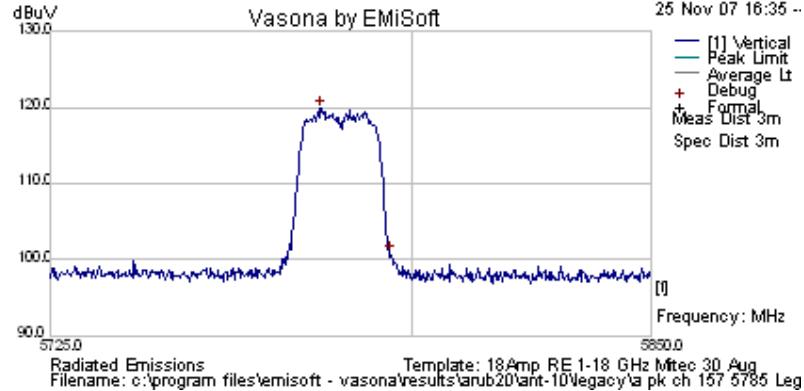
| AP124 - ANT-10 (6 dBi OMNI) Test Configuration | | | | | |
|--|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 157 | 5785 | ART 12 | 99% | 6 Legacy | Yes |

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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5781.112 | 74.03 | 10.77 | 35.13 | 119.94 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11573.99 | 58.6 | 6.81 | -1.57 | 63.84 | Peak Max | V | 98 | 305 | 74 | -10.16 | Pass | |
| 11573.99 | 44.7 | 6.81 | -1.57 | 49.94 | Average Max | V | 98 | 305 | 54 | -4.06 | Pass | |
| 17.357.21 | 48.03 | 8.7 | -0.64 | 56.09 | Peak [Scan] | V | 100 | 0 | 99.94 | -43.85 | Pass | |

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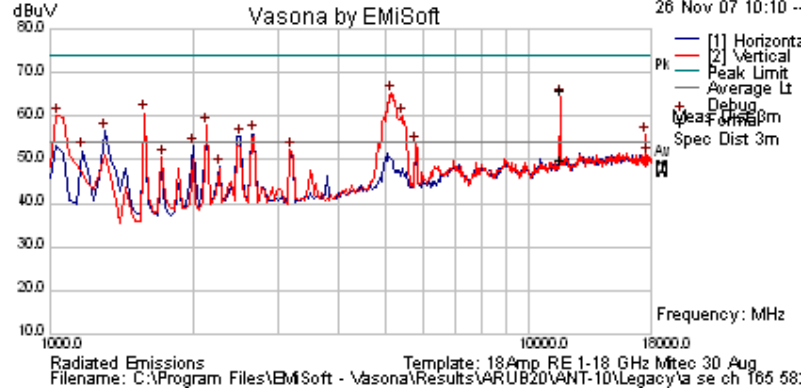


Title: Aruba AP-124,125 802.11a/b/g/n AP
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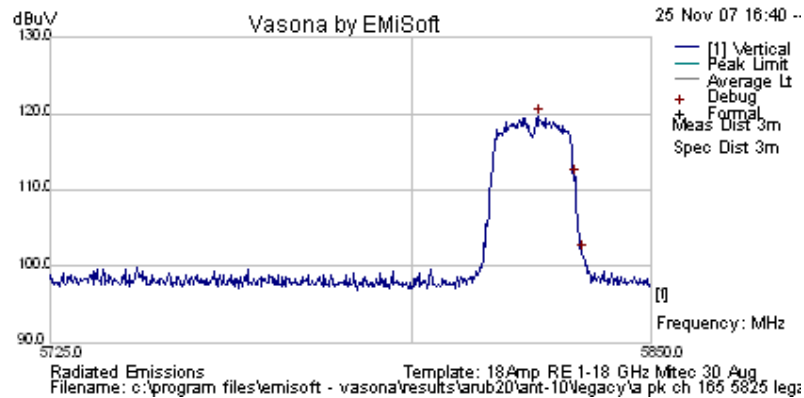
| AP124 - ANT-10 (6 dBi OMNI) Test Configuration | | | | | |
|--|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 165 | 5825 | ART 12 | 99% | 6 Legacy | Yes |

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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5826.453 | 73.64 | 10.8 | 35.17 | 119.6 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11645.89 | 58.74 | 6.83 | -1.43 | 64.13 | Peak Max | V | 115 | 54 | 74 | -9.87 | Pass | |
| 11645.89 | 42.64 | 6.83 | -1.43 | 48.03 | Average Max | V | 115 | 54 | 54 | -5.97 | Pass | |

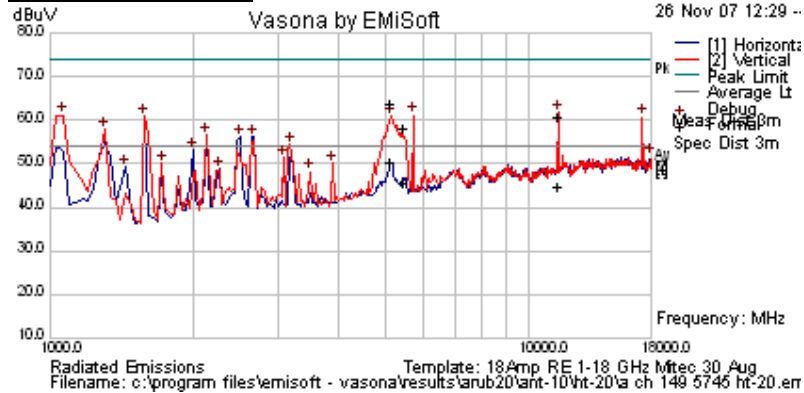
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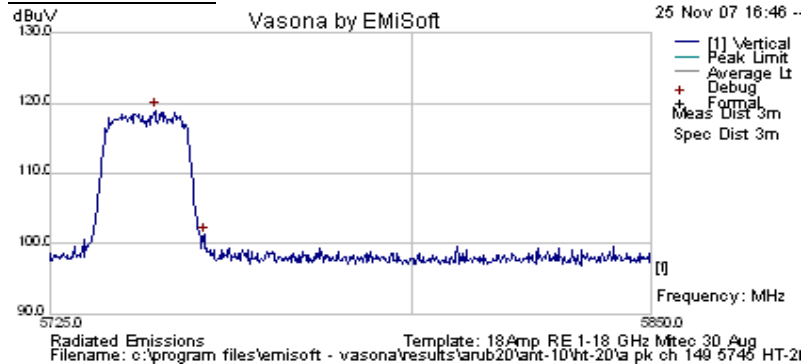
| AP124 - ANT-10 (6 dBi OMNI) Test Configuration | | | | | |
|--|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 149 | 5745 | ART 12 | 99% | 6.5 HT-20 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

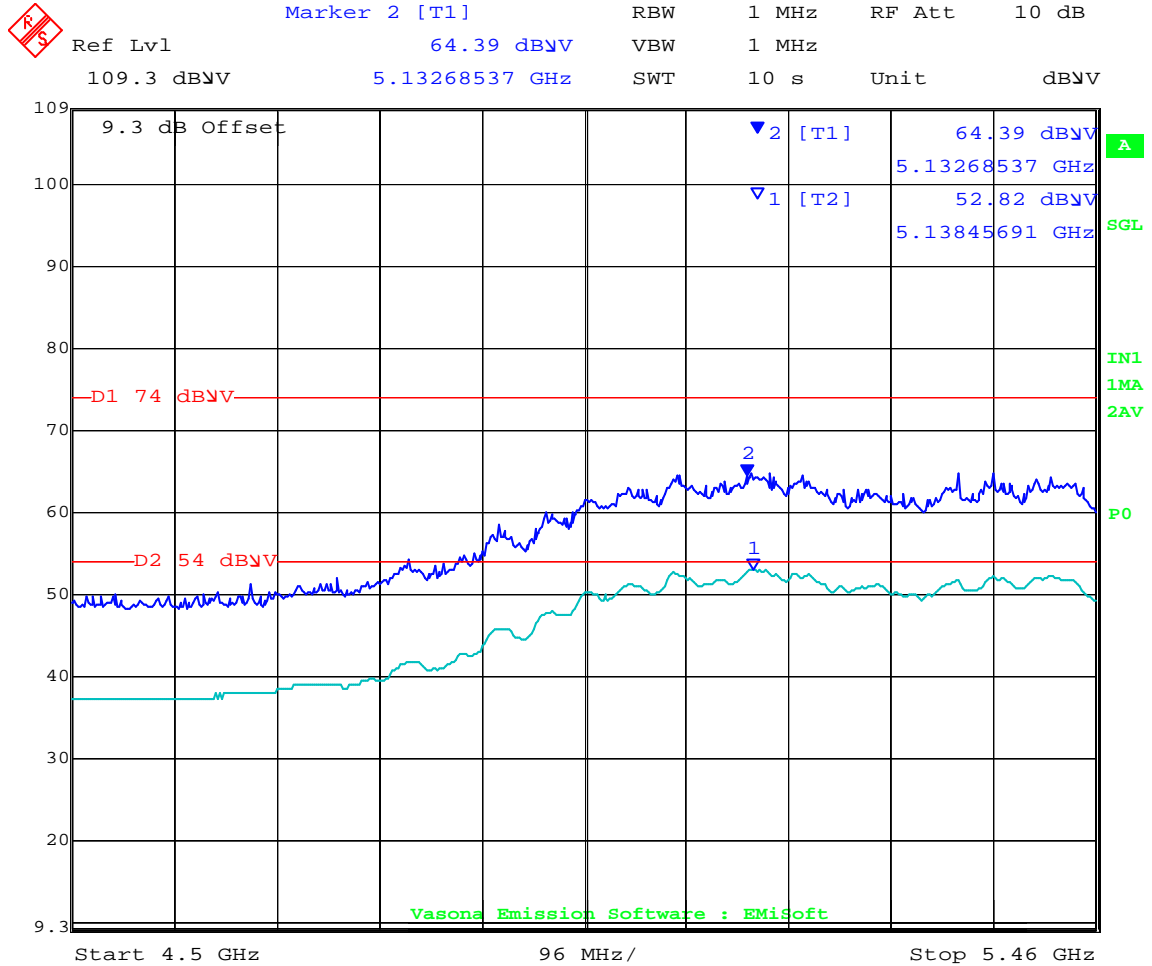


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5746.794 | 73.12 | 10.76 | 35.1 | 118.98 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 5460 | ART Power Setting = 16 | | | 60.00 | Formal Peak | V | | | 74 | -14.00 | Pass | Band-edge |
| 5460 | | | | 49.50 | Formal Average | V | | | 54 | -4.50 | Pass | Band-edge |
| 5150 | | | | 64.39 | Formal Peak | V | | | 74 | -9.61 | Pass | Band-edge |
| 5150 | | | | 52.82 | Formal Average | V | | | 54 | -1.18 | Pass | Band-edge |
| 11500.68 | 53.7 | 6.79 | -1.72 | 58.77 | Peak Max | V | 135 | 34 | 74 | -15.23 | Pass | |
| 11500.68 | 37.81 | 6.79 | -1.72 | 42.88 | Average Max | V | 135 | 34 | 54 | -11.12 | Pass | |
| 17250.5 | 52.65 | 8.62 | -0.48 | 60.79 | Peak [Scan] | V | 100 | 0 | 98.98 | -38.19 | Pass | NRB |

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Date: 1.DEC.2007 16:50:42

802.11a HT-20 Band-edge 5150, 5460MHz

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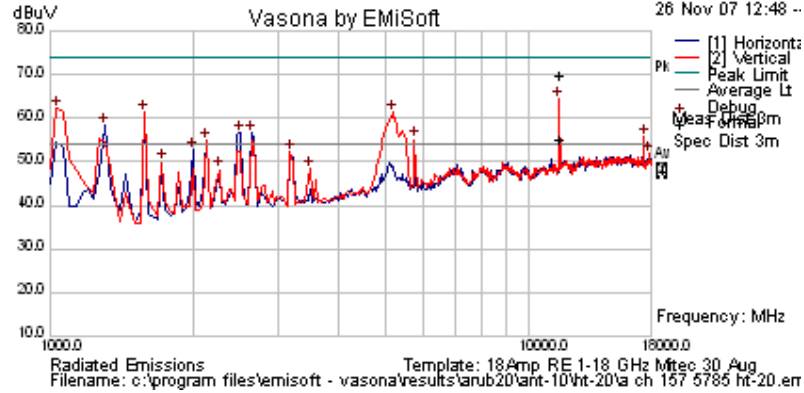


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
Serial #: ARUB20-A2 Rev A
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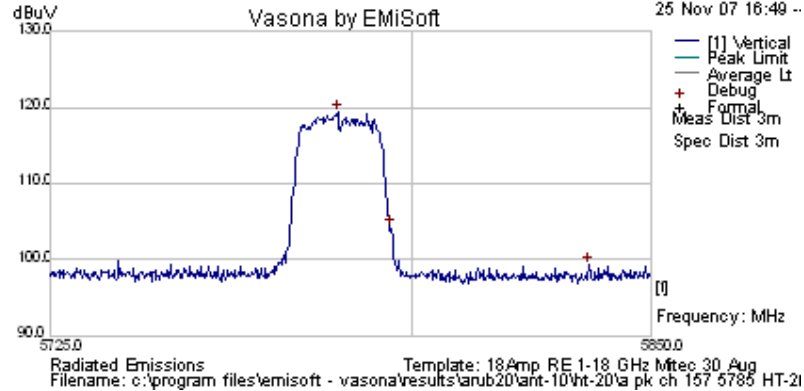
| AP124 - ANT-10 (6 dBi OMNI) Test Configuration | | | | | |
|--|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 157 | 5785 | ART 12 | 99% | 6.5 HT-20 | Yes |

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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5784.619 | 73.4 | 10.78 | 35.13 | 119.31 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11571.4 | 62.69 | 6.81 | -1.58 | 67.92 | Peak Max | V | 100 | 57 | 74 | -6.08 | Pass | |
| 11571.4 | 48.08 | 6.81 | -1.58 | 53.31 | Average Max | V | 100 | 57 | 54 | -0.69 | Pass | |
| 17795.59 | 43.18 | 8.78 | -0.09 | 51.86 | Peak [Scan] | V | 100 | 0 | 99.31 | -47.45 | Pass | NRB |

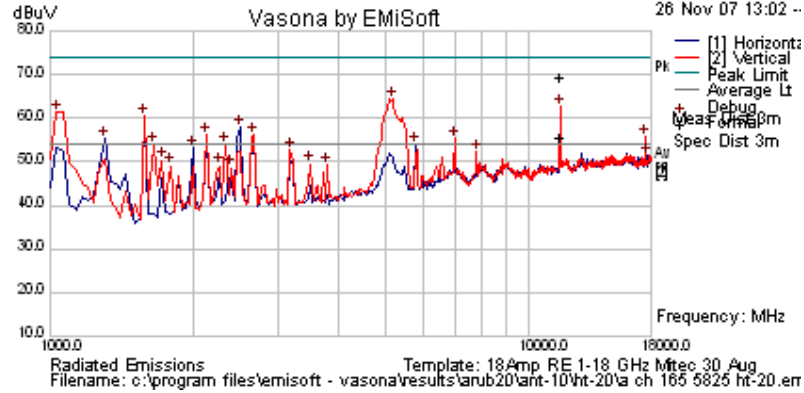
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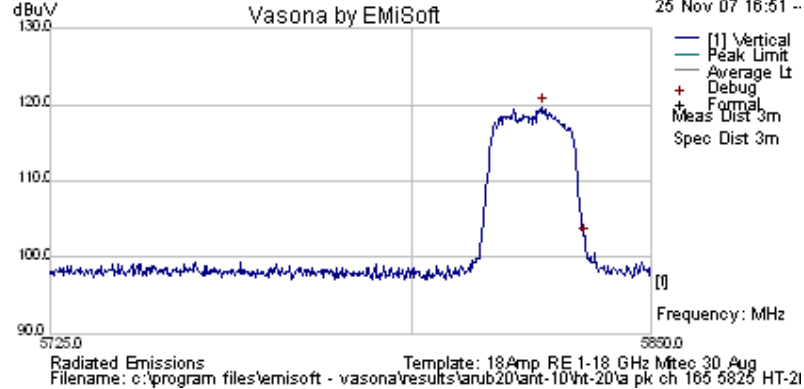
| AP124 - ANT-10 (6 dBi OMNI) Test Configuration | | | | | |
|--|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 165 | 5825 | ART 12 | 99% | 6.5 HT-20 | Yes |

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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5827.204 | 73.76 | 10.8 | 35.17 | 119.72 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11651.3 | 62.13 | 6.83 | -1.45 | 67.51 | Peak Max | V | 124 | 59 | 74 | -6.49 | Pass | |
| 11651.3 | 48.22 | 6.83 | -1.45 | 53.6 | Average Max | V | 124 | 59 | 54 | -0.4 | Pass | |
| 17488.98 | 47.54 | 8.76 | -0.62 | 55.69 | Peak [Scan] | V | 100 | 0 | 99.72 | -44.03 | Pass | NRB |
| 6995.992 | 52.08 | 5.38 | -2.24 | 55.22 | Peak [Scan] | V | 100 | 0 | 99.72 | -44.50 | Pass | NRB |
| 7779.559 | 48.78 | 5.54 | -2.1 | 52.22 | Peak [Scan] | V | 100 | 0 | 99.72 | -47.50 | Pass | NRB |

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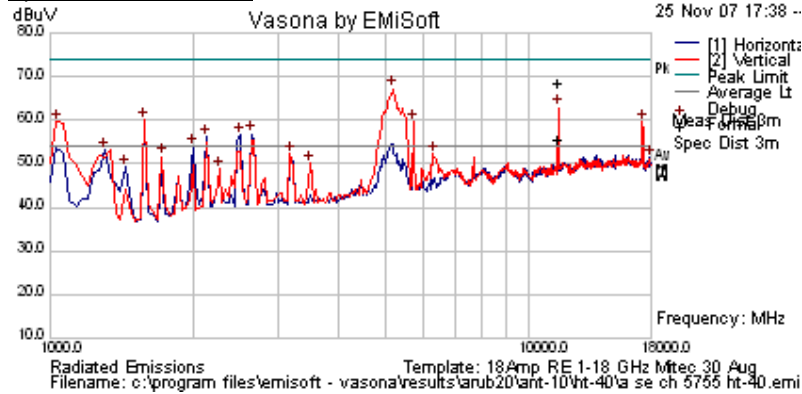


AP124: 5725-5850 MHz ANT-10 (6 dBi OMNI) HT-40 Data Rates

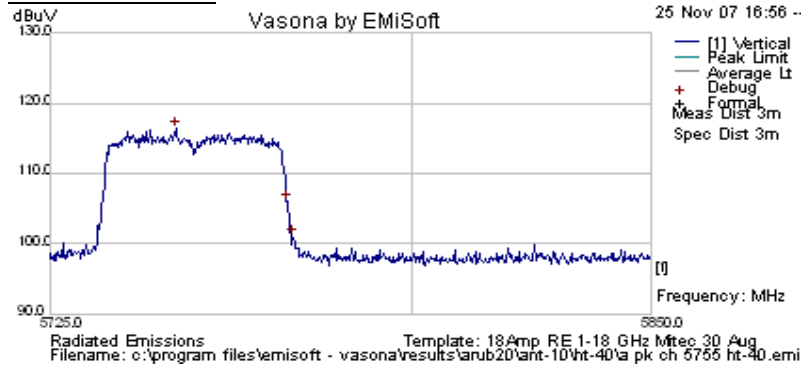
| AP124 - ANT-10 (6 dBi OMNI Cushcraft P/N: S5153WBPX) Test Configuration | | | | | |
|---|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| | 5755 | ART 12 | 99% | 13.5 HT-40 | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan

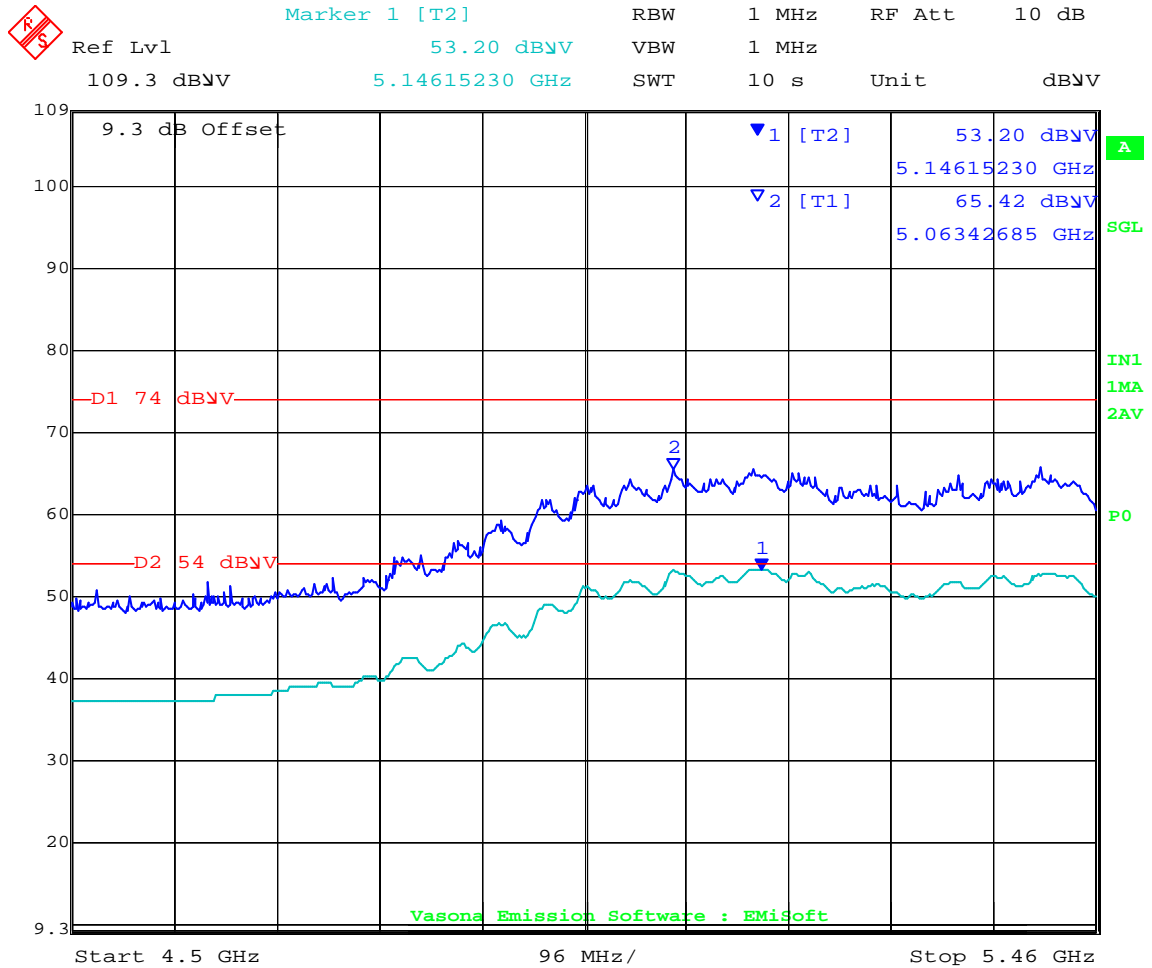


Peak Emission Scan



| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|--------------------------|------------|--------|------------|------------------|-------|--------|----------|------------|-----------|------------|-------------|
| 5751.052 | 70.59 | 10.76 | 35.11 | 116.45 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 5460.00 | ART Power Setting = 14.0 | | | 65.00 | Formal Peak | V | | | 74 | -9.00 | Pass | Band-edge |
| 5460.00 | | | | 53.40 | Formal Average | V | | | 54 | -0.6 | Pass | Band-edge |
| 5150.00 | | | | 65.42 | Formal Peak | V | | | 74 | -8.58 | Pass | Band-edge |
| 5150.00 | | | | 53.20 | Formal Average | V | | | 54 | -0.80 | Pass | Band-edge |
| 11513.95 | | | | 59.43 | 6.79 | -1.71 | 64.52 | Peak Max | V | 134 | 44 | 74 |
| 11513.95 | 46.24 | 6.79 | -1.71 | 51.33 | Average Max | V | 134 | 44 | 54 | -2.67 | Pass | |
| 5190.381 | 71.78 | 4.62 | -9.21 | 67.19 | Peak [Scan] | V | 100 | 0 | 96.45 | -29.26 | Pass | NRB |
| 17250.5 | 51.55 | 8.62 | -0.48 | 59.69 | Peak [Scan] | V | 100 | 0 | 96.45 | -36.76 | Pass | NRB |
| 2635.271 | 65.13 | 3.11 | -11.37 | 56.86 | Peak [Scan] | H | 100 | 0 | 96.45 | -39.45 | Pass | NRB |
| 2124.248 | 64.5 | 2.82 | -11.03 | 56.29 | Peak [Scan] | H | 100 | 0 | 96.45 | -40.16 | Pass | NRB |

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Date: 1.DEC.2007 16:52:53

802.11a HT-40 Band-edge 5150, 5460MHz

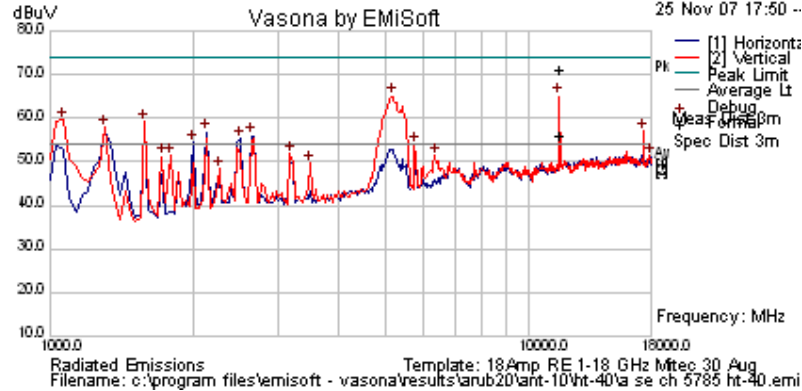
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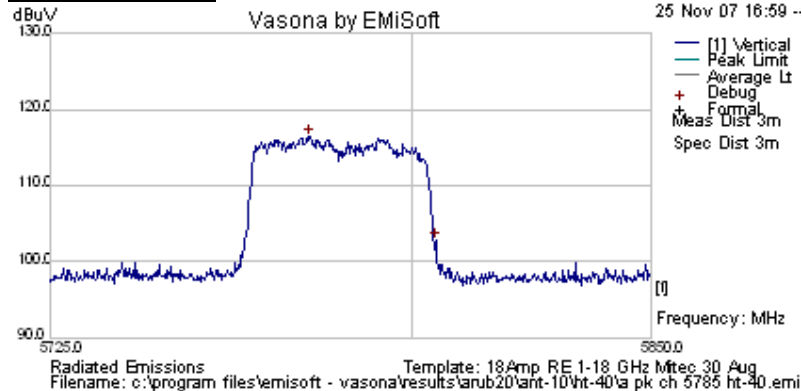
| AP124 - ANT-10 (6 dBi OMNI) Test Configuration | | | | | |
|--|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 157 | 5785 | ART 12 | 99% | 13.5 HT-40 | Yes |

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 |
|---------------|----------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5778.858 | 70.54 | 10.77 | 35.13 | 116.44 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11570.02 | 63.76 | 6.81 | -1.58 | 68.99 | Peak Max | V | 105 | 57 | 74 | -5.01 | Pass | |
| 11570.02 | 48.76 | 6.81 | -1.58 | 53.99 | Average Max | V | 105 | 57 | 54 | -0.01 | Pass | |
| 5190.381 | 69.65 | 4.62 | -9.21 | 65.06 | Peak [Scan] | V | 100 | 0 | 96.44 | -31.38 | Pass | NRB |
| 17352.71 | 49.05 | 8.68 | -0.57 | 57.17 | Peak [Scan] | V | 100 | 0 | 96.44 | -39.27 | Pass | NRB |
| 2124.248 | 65.12 | 2.82 | -11.03 | 56.91 | Peak [Scan] | H | 100 | 0 | 96.44 | -39.53 | Pass | NRB |
| 2635.271 | 64.24 | 3.11 | -11.37 | 55.97 | Peak [Scan] | H | 100 | 0 | 96.44 | -40.47 | Pass | NRB |

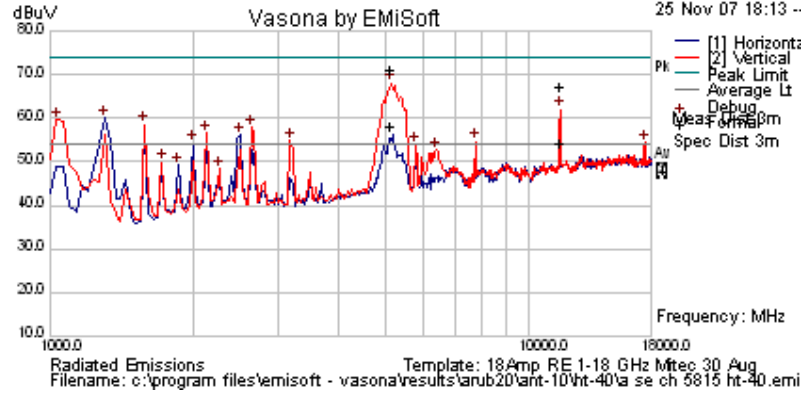
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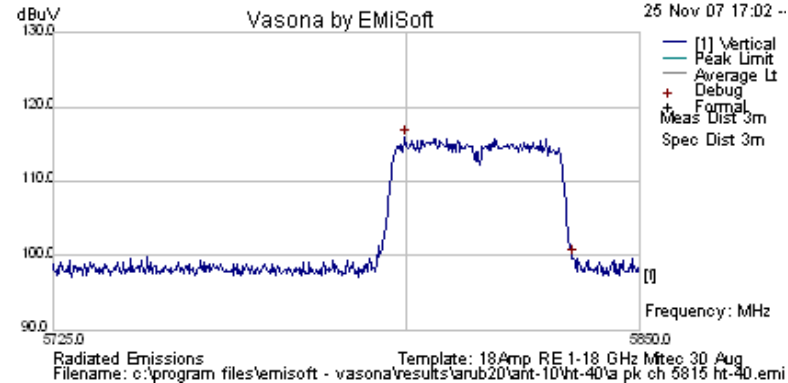
| AP124 - ANT-10 (6 dBi OMNI) Test Configuration | | | | | |
|--|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| | 5815 | ART 12 | 99% | 13.5 HT-40 | Yes |

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 |
|---------------|----------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5799.649 | 69.97 | 10.78 | 35.14 | 115.9 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Fundamental |
| 11634.43 | 59.78 | 6.82 | -1.39 | 65.21 | Peak Max | V | 99 | 48 | 74 | -8.79 | Pass | |
| 1605.851 | 73.57 | 2.46 | -14.26 | 61.77 | Peak Max | V | 99 | 182 | 74 | -12.23 | Pass | |
| 1329.399 | 72.11 | 2.24 | -15.58 | 58.77 | Peak Max | V | 105 | 239 | 74 | -15.23 | Pass | |
| 1064.829 | 71.81 | 2.02 | -16.08 | 57.75 | Peak Max | V | 98 | 124 | 74 | -16.25 | Pass | |
| 11634.43 | 46.66 | 6.82 | -1.39 | 52.09 | Average Max | V | 99 | 48 | 54 | -1.91 | Pass | |
| 11401.30 | 48.75 | 6.82 | -1.73 | 53.84 | Average Max | V | 103 | 166 | 54 | -0.16 | Pass | |
| 1605.851 | 54.38 | 2.46 | -14.26 | 42.58 | Average Max | V | 99 | 182 | 54 | -11.42 | Pass | |
| 1329.399 | 48.18 | 2.24 | -15.58 | 34.84 | Average Max | H | 151 | 103 | 54 | -19.16 | Pass | |
| 1064.829 | 56.78 | 2.02 | -16.08 | 42.72 | Average Max | V | 98 | 124 | 54 | -11.28 | Pass | |

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**ARUB20 AP-124 (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 (5460 5150 5745 MHz)BE | 13 | 10.21 | 9.96 | 10.89 | 15.91 |
| HT-20 (5460 5150 5745 MHz)BE | 12.5 | 9.83 | 9.13 | 10.37 | 15.38 |
| HT-40 (5150 5190 5755 MHz)BE | 10 | 7.06 | 6.53 | 7.73 | 12.70 |
| Legacy a (5745MHz)SE | 11.5 | 8.88 | 8.40 | 9.36 | 14.42 |
| Legacy a (5785 MHz)SE | 12 | 8.90 | 8.53 | 9.21 | 14.50 |
| Legacy a (5825 MHz)SE | 12 | 8.45 | 8.76 | 9.05 | 14.35 |
| HT-20 (5745 MHz)SE | 14 | 11.18 | 11.03 | 12.01 | 16.99 |
| HT-20 (5785 MHz)SE | 14 | 10.87 | 10.57 | 11.49 | 16.66 |
| HT-20 (5825 MHz)SE | 11.5 | 7.97 | 8.27 | 8.35 | 13.64 |
| HT-40 (5755 MHz)SE | 12 | 8.75 | 8.36 | 9.51 | 14.58 |
| HT-40 (5785 MHz)SE | 12 | 8.49 | 8.30 | 9.25 | 14.32 |
| HT-40 (5815 MHz)SE | 12 | 8.10 | 8.29 | 8.70 | 14.10 |

Note BE = Band-edge, SE – Spurious emissions

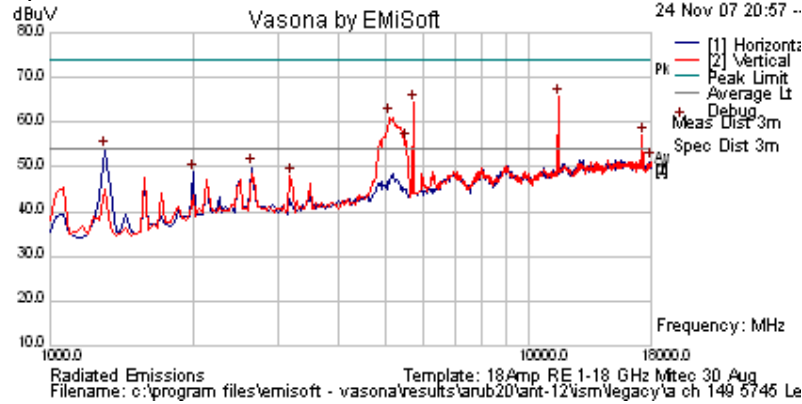


AP124: 5725-5850 MHz ANT-12 (14 dBi OMNI) Legacy Data Rates

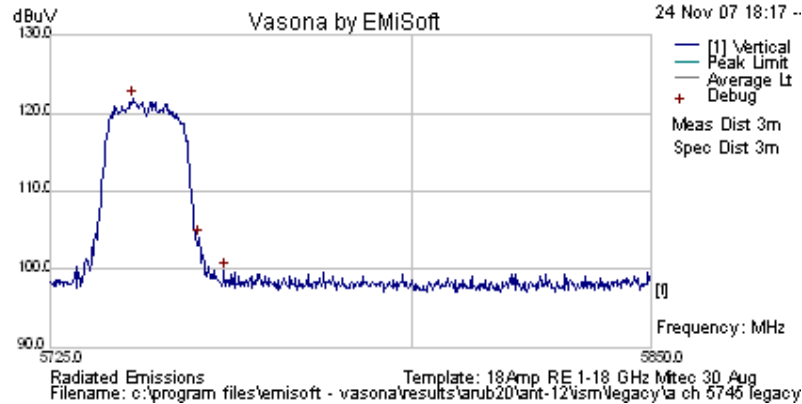
| AP124 - ANT-12 (14 dBi OMNI) Test Configuration | | | | | |
|---|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 149 | 5745 | ART 11.5 | 99% | 6 Legacy | Yes |

Three antennas operating simultaneously
 NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

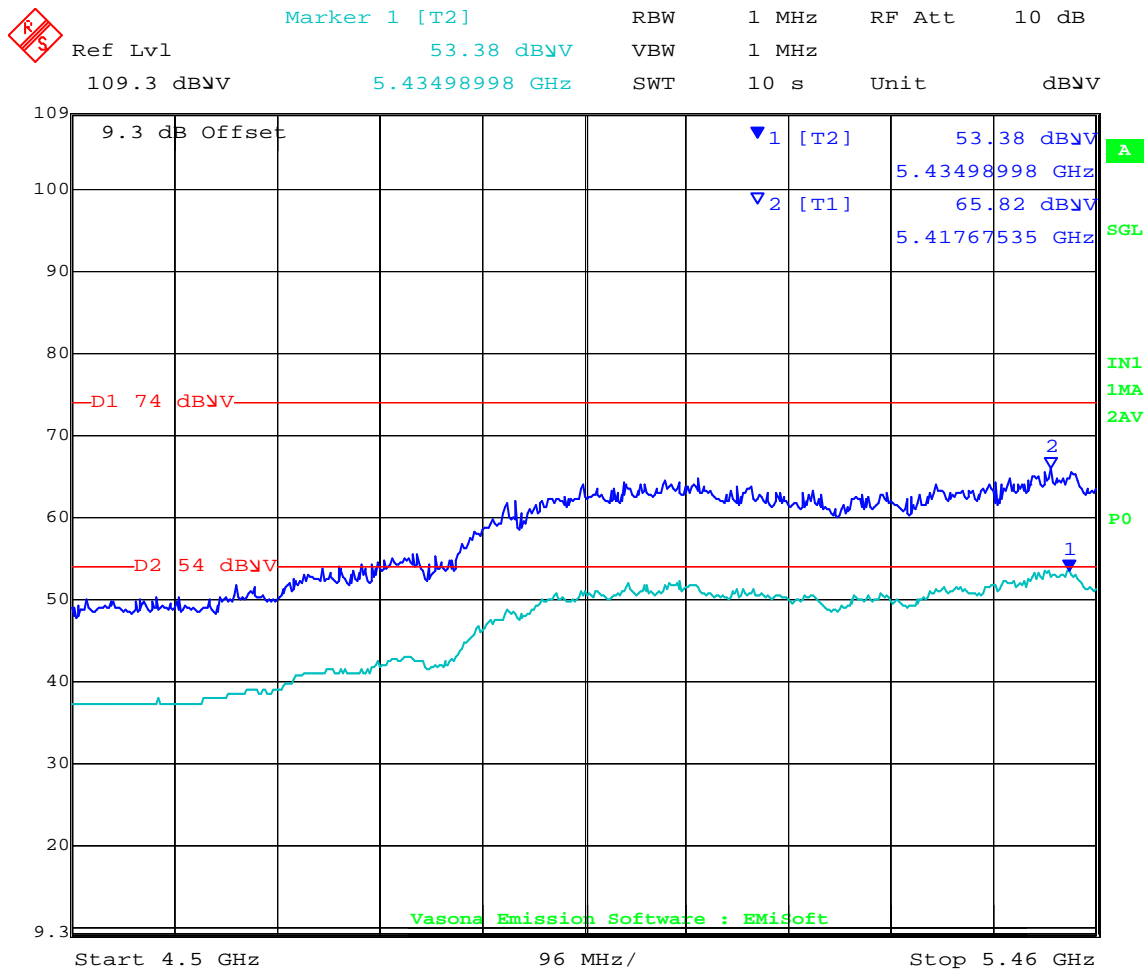


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|--------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5742.034 | 76.06 | 10.75 | 35.1 | 121.91 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 5460 | ART Power Setting = 13.0 | | | 65.82 | Formal Peak | V | | | 74 | -8.18 | Pass | Band-edge |
| 5460 | ART Power Setting = 13.0 | | | 53.38 | Formal Average | V | | | 54 | -0.62 | Pass | Band-edge |
| 5150 | ART Power Setting = 13.0 | | | 64.10 | Formal Peak | V | | | 74 | -9.90 | Pass | Band-edge |
| 5150 | ART Power Setting = 13.0 | | | 52.50 | Formal Average | V | | | 54 | -1.50 | Pass | Band-edge |
| 11497.32 | 63.09 | 6.79 | -1.72 | 68.16 | Peak Max | V | 106 | 63 | 74 | -5.84 | Pass | |
| 11497.32 | 48.88 | 6.79 | -1.72 | 53.95 | Average Max | V | 106 | 63 | 54 | -0.05 | Pass | |
| 17250.5 | 53.75 | 8.62 | -0.48 | 61.89 | Peak [Scan] | V | 100 | 0 | 101.91 | -40.02 | Pass | NRB |

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Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
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802.11a Legacy Band-edge 5150, 5460MHz

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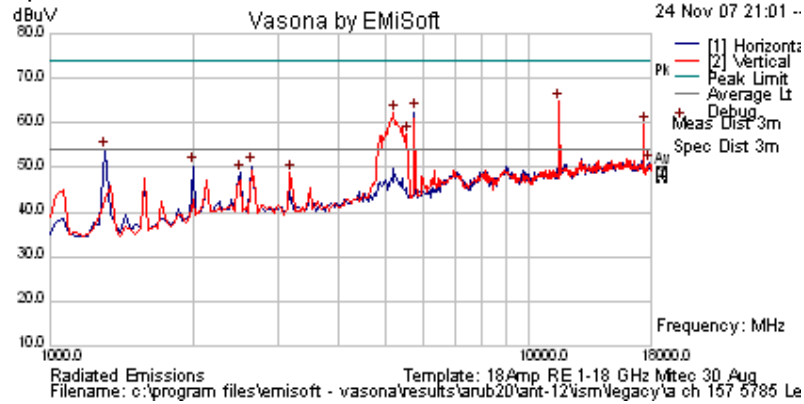


Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
Serial #: ARUB20-A2 Rev A
Issue Date: 11th December 2007
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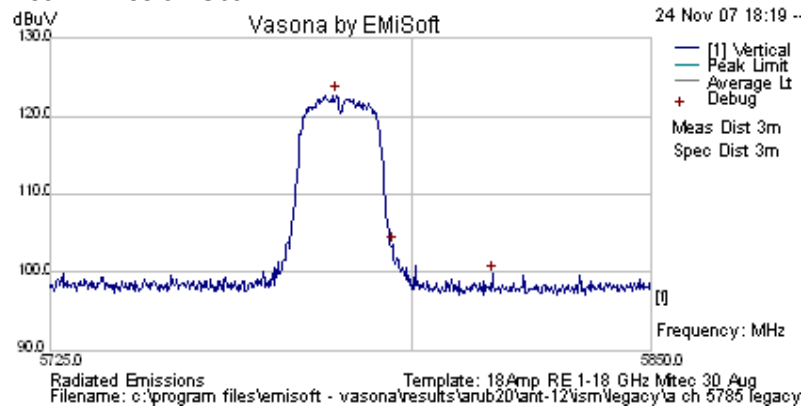
| AP124 - ANT-12 (14 dBi OMNI) Test Configuration | | | | | |
|---|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 157 | 5785 | ART 12 | 99% | 6 Legacy | Yes |

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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5784.118 | 76.83 | 10.78 | 35.13 | 122.74 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11561.12 | 58.23 | 6.8 | -1.61 | 63.42 | Peak Max | V | 102 | 330 | 74 | -10.58 | Pass | |
| 11561.12 | 39.19 | 6.8 | -1.61 | 44.39 | Average Max | H | 120 | 86 | 54 | -9.61 | Pass | |
| 17352.71 | 55.32 | 8.68 | -0.57 | 63.44 | Peak [Scan] | V | 100 | 0 | 102.74 | -39.30 | Pass | NRB |

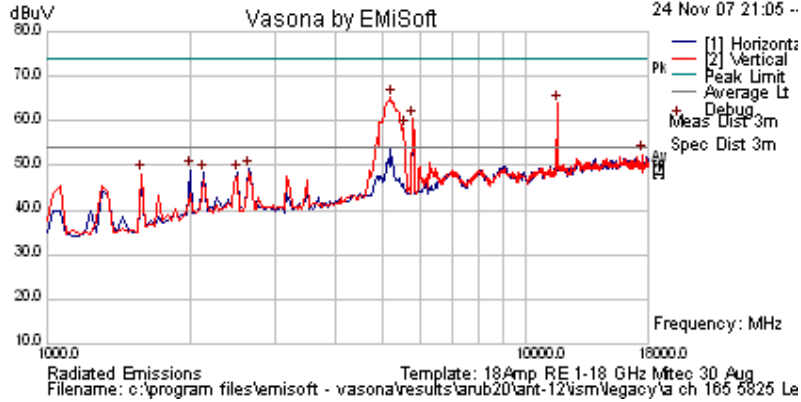
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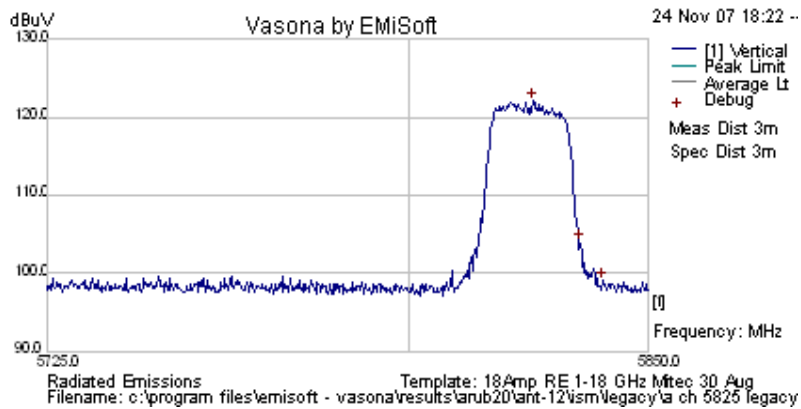
| AP124 - ANT-12 (14 dBi OMNI) Test Configuration | | | | | |
|---|------------|----------------------|------------|--------------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MBit/s) | Compliant |
| 165 | 5825 | ART 12 | 99% | 6 Legacy | Yes |

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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5825.701 | 76.18 | 10.8 | 35.16 | 122.15 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11650.81 | 62.95 | 6.83 | -1.45 | 68.33 | Peak Max | V | 130 | 329 | 74 | -5.67 | Pass | |
| 11650.81 | 47.97 | 6.83 | -1.45 | 53.35 | Average Max | V | 130 | 329 | 54 | -0.65 | Pass | |

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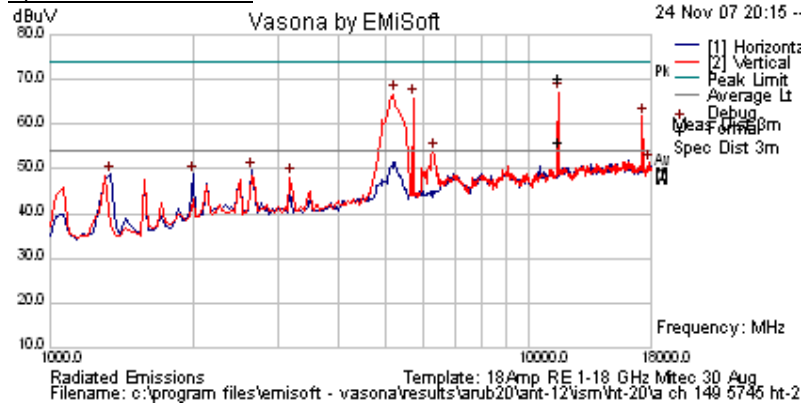
AP124: 5725-5850 MHz ANT-12 (14 dBi OMNI) Legacy Data Rates

| AP124 - ANT-12 (14 dBi OMNI) Test Configuration | | | | | |
|---|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 149 | 5745 | ART 14 | 99% | 6.5 HT-20 | Yes |

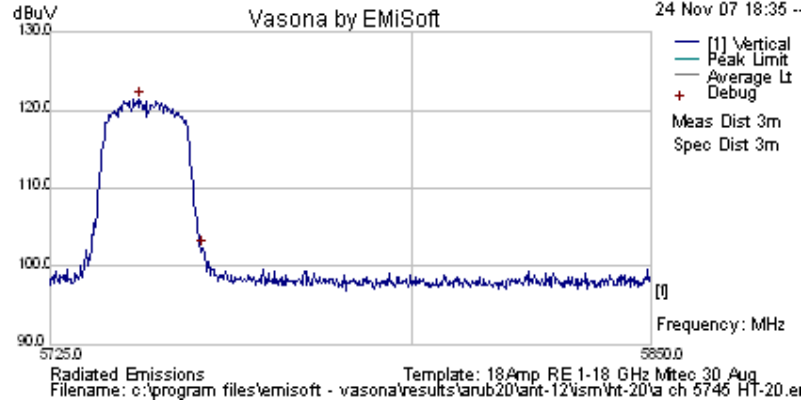
Three antennas operating simultaneously

NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

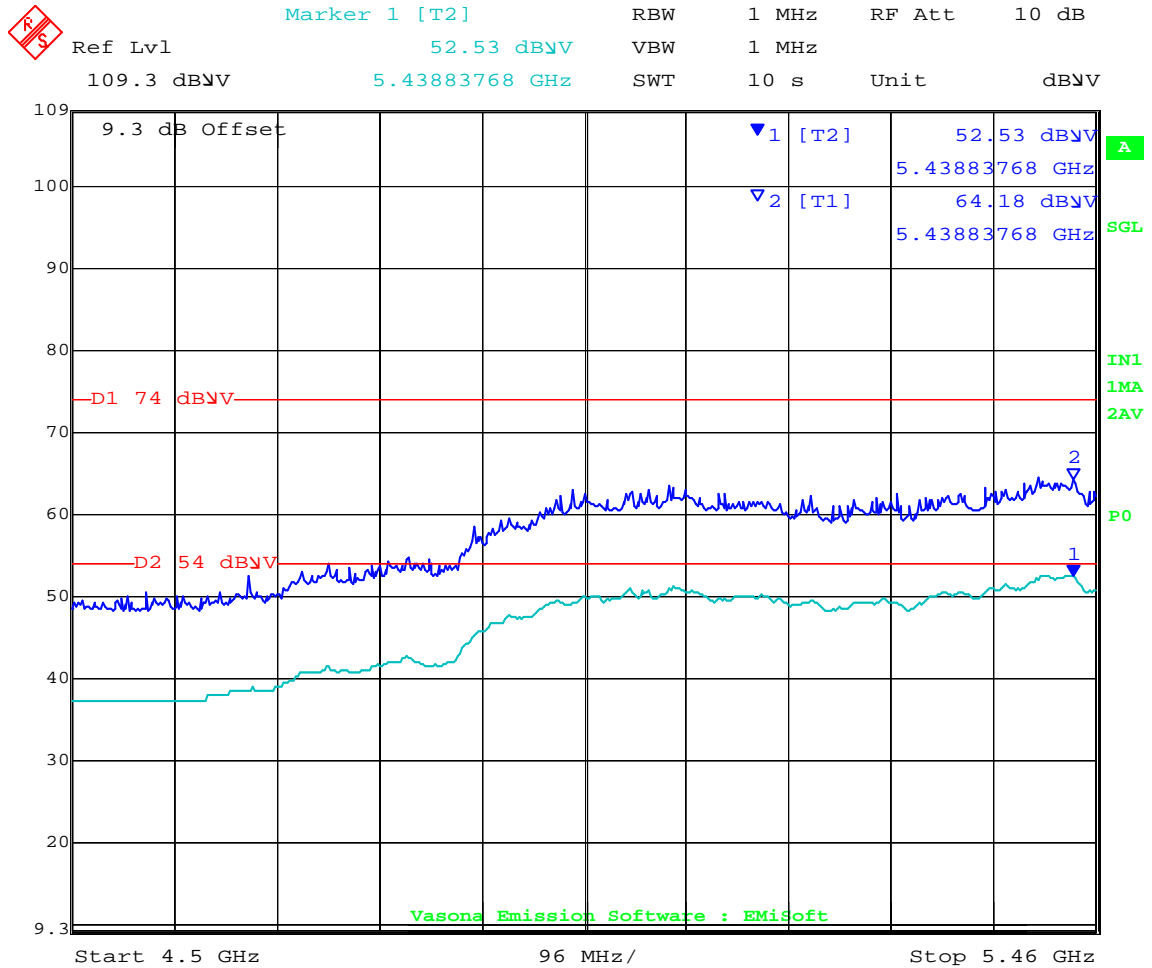


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|--------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5743.537 | 75.52 | 10.75 | 35.1 | 121.37 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 5460 | ART Power Setting = 12.5 | | | 64.18 | Formal Peak | V | | | 74 | -9.82 | Pass | Band-edge |
| 5460 | | | | 52.53 | Formal Average | V | | | 54 | -1.47 | Pass | Band-edge |
| 5150 | | | | 63.10 | Formal Peak | V | | | 74 | -10.9 | Pass | Band-edge |
| 5150 | | | | 51.00 | Formal Average | V | | | 54 | -3.00 | Pass | Band-edge |
| 11497.32 | 63.09 | 6.79 | -1.72 | 68.16 | Peak Max | V | 106 | 63 | 74 | -5.84 | Pass | |
| 11497.32 | 48.88 | 6.79 | -1.72 | 53.95 | Average Max | V | 106 | 63 | 54 | -0.05 | Pass | |
| 5224.449 | 71.24 | 4.62 | -9.09 | 66.77 | Peak [Scan] | V | 100 | 0 | 101.37 | -34.60 | Pass | NRB |
| 17250.5 | 53.75 | 8.62 | -0.48 | 61.89 | Peak [Scan] | V | 100 | 0 | 101.37 | -39.48 | Pass | NRB |
| 6314.629 | 56.29 | 5.04 | -7.18 | 54.16 | Peak [Scan] | V | 100 | 0 | 101.37 | -47.21 | Pass | NRB |

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Serial #: ARUB20-A2 Rev A
Issue Date: 11th December 2007
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Date: 1.DEC.2007 17:12:21

802.11a HT-20 Band-edge 5150, 5460MHz

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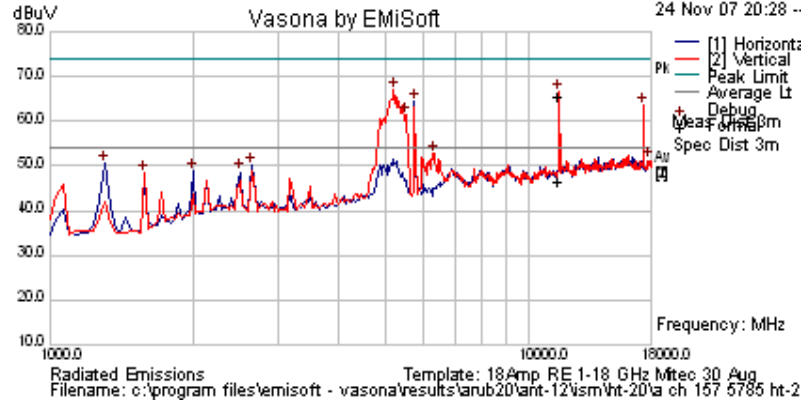


Title: Aruba AP-124,125 802.11a/b/g/n AP
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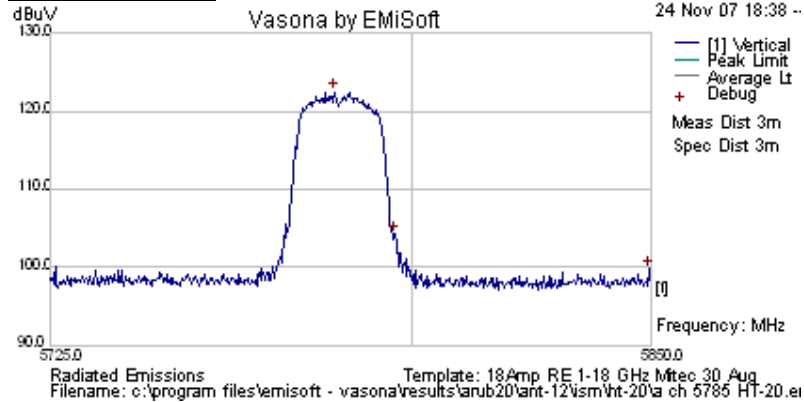
| AP124 - ANT-12 (14 dBi OMNI) Test Configuration | | | | | |
|---|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 157 | 5785 | ART 14 | 99% | 6.5 HT-20 | Yes |

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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5783.868 | 76.53 | 10.78 | 35.13 | 122.44 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11561.12 | 58.23 | 6.8 | -1.61 | 63.42 | Peak Max | V | 102 | 330 | 74 | -10.58 | Pass | |
| 11561.12 | 39.19 | 6.8 | -1.61 | 44.39 | Average Max | H | 120 | 86 | 54 | -9.61 | Pass | |
| 17352.71 | 55.32 | 8.68 | -0.57 | 63.44 | Peak [Scan] | V | 100 | 0 | 102.44 | -39.00 | Pass | NRB |
| 5531.062 | 65.05 | 4.64 | -8.32 | 61.37 | Peak [Scan] | V | 100 | 0 | 102.44 | -41.07 | Pass | NRB |
| 6348.697 | 54.79 | 5.06 | -7.05 | 52.81 | Peak [Scan] | V | 100 | 0 | 102.44 | -49.63 | Pass | NRB |

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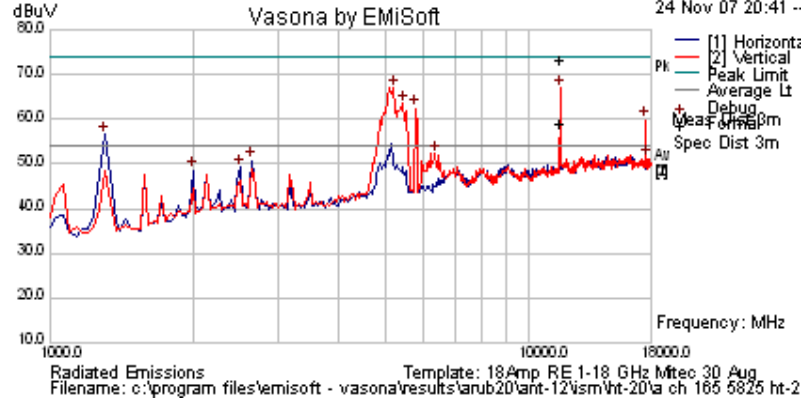


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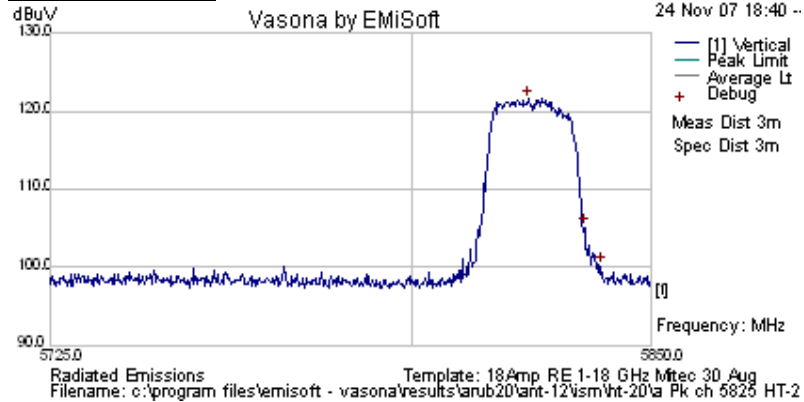
| AP124 - ANT-12 (14 dBi OMNI) Test Configuration | | | | | |
|---|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 165 | 5825 | ART 11.5 | 99% | 6.5 HT-20 | Yes |

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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5824.198 | 75.65 | 10.8 | 35.16 | 121.62 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11650.81 | 62.95 | 6.83 | -1.45 | 68.33 | Peak Max | V | 130 | 329 | 74 | -5.67 | Pass | |
| 11650.81 | 47.97 | 6.83 | -1.45 | 53.35 | Average Max | V | 130 | 329 | 54 | -0.65 | Pass | |
| 17488.98 | 51.68 | 8.76 | -0.62 | 59.83 | Peak [Scan] | V | 100 | 0 | 101.62 | -41.79 | Pass | NRB |
| 6382.766 | 54.13 | 5.08 | -6.9 | 52.3 | Peak [Scan] | V | 100 | 0 | 101.62 | -49.32 | Pass | NRB |

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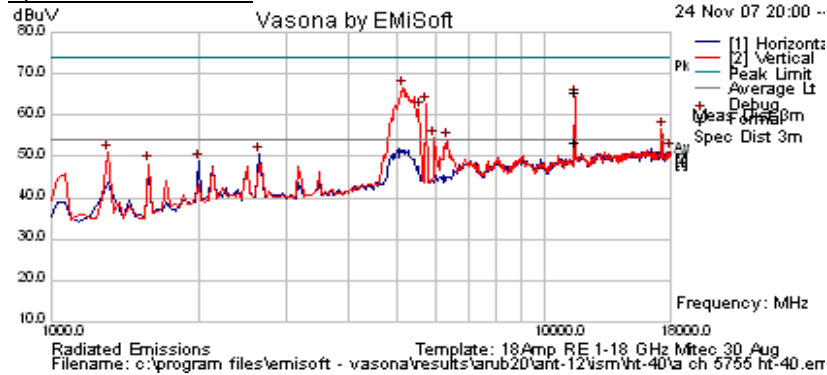
AP124: 5725-5850 MHz ANT-12 (14 dBi OMNI) HT-40 Data Rates

| AP124 - ANT-12 (14 dBi OMNI) Test Configuration | | | | | |
|---|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| | 5755 | ART 12 | 99% | 13.5 HT-40 | Yes |

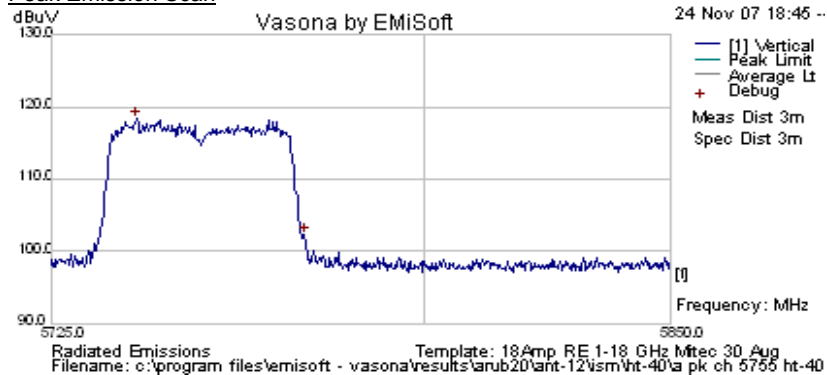
Three antennas operating simultaneously

NRB = None Restrictive Band

Spurious Emission Scan



Peak Emission Scan

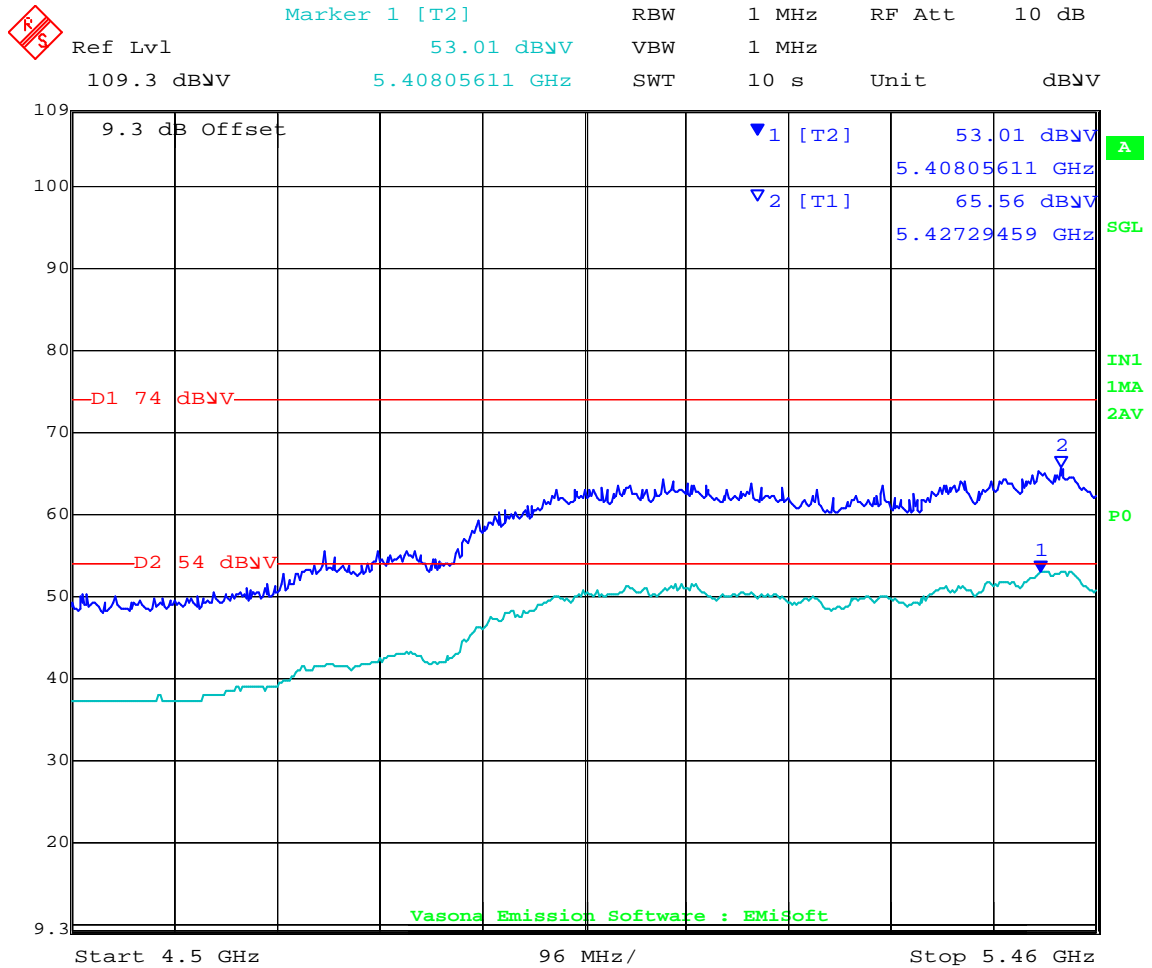


| Frequency MHz | Raw dBuV | Cable Loss | AF dB | Level dBuV | Measurement Type | Pol | Hgt cm | Azt Deg | Limit dBuV | Margin dB | Pass /Fail | Comments |
|---------------|--------------------------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5742.285 | 72.55 | 10.75 | 35.1 | 118.4 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 5460 | ART Power Setting = 10.0 | | | 65.56 | Formal Peak | V | | | 74 | -8.44 | Pass | Band-edge |
| 5460 | ART Power Setting = 10.0 | | | 53.01 | Formal Average | V | | | 54 | -0.99 | Pass | Band-edge |
| 5150 | ART Power Setting = 10.0 | | | 64.90 | Formal Peak | V | | | 74 | -9.10 | Pass | Band-edge |
| 5150 | ART Power Setting = 10.0 | | | 52.10 | Formal Average | V | | | 54 | -1.90 | Pass | Band-edge |
| 11519.118 | 58.49 | 6.79 | -1.7 | 63.59 | Peak Max | V | 108 | 168 | 74 | -10.41 | Pass | |
| 11519.118 | 46.09 | 6.79 | -1.7 | 51.18 | Average Max | V | 108 | 168 | 54 | -2.82 | Pass | |
| 5156.313 | 71.39 | 4.62 | -9.28 | 66.73 | Peak [Scan] | V | 100 | 0 | 98.4 | -31.67 | Pass | NRB |
| 5565.13 | 64.97 | 4.66 | -8.35 | 61.28 | Peak [Scan] | V | 100 | 0 | 98.4 | -37.12 | Pass | NRB |
| 17250.501 | 48.54 | 8.62 | -0.48 | 56.69 | Peak [Scan] | V | 100 | 0 | 98.4 | -41.71 | Pass | NRB |
| 5973.948 | 57.36 | 4.88 | -7.8 | 54.44 | Peak [Scan] | V | 100 | 0 | 98.4 | -43.96 | Pass | NRB |
| 6348.697 | 55.81 | 5.06 | -7.05 | 53.82 | Peak [Scan] | V | 100 | 0 | 98.4 | -44.58 | Pass | NRB |

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Date: 1.DEC.2007 17:09:09

802.11a HT-40 Band-edge 5150, 5460MHz

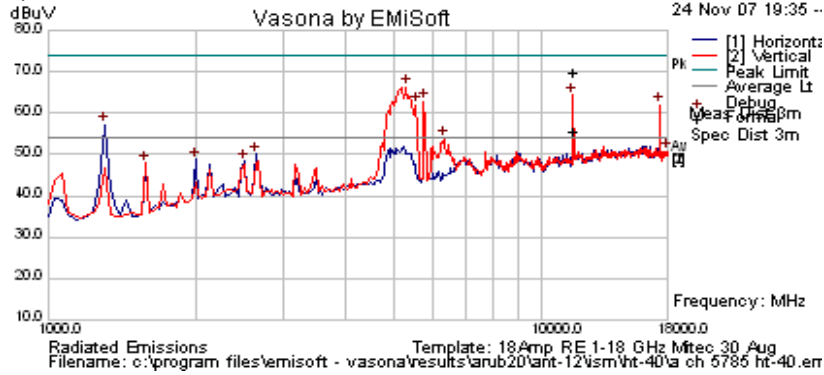
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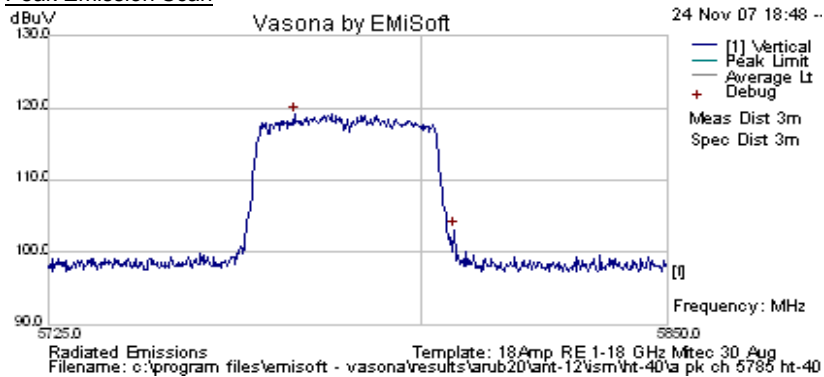
| AP124 - ANT-12 (14 dBi OMNI) Test Configuration | | | | | |
|---|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| 157 | 5785 | ART 12 | 99% | 13.5 HT-40 | Yes |

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 |
|---------------|----------|------------|--------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5774.349 | 73.31 | 10.77 | 35.12 | 119.2 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Pk Emission |
| 11571.09 | 62.39 | 6.81 | -1.58 | 67.62 | Peak Max | V | 129 | 330 | 74 | -6.38 | Pass | |
| 11571.09 | 48.09 | 6.81 | -1.58 | 53.32 | Average Max | V | 129 | 330 | 54 | -0.68 | Pass | |
| 17352.705 | 53.91 | 8.68 | -0.57 | 62.02 | Peak [Scan] | V | 100 | 0 | 99.2 | -37.18 | Pass | NRB |
| 5565.13 | 65.69 | 4.66 | -8.35 | 62 | Peak [Scan] | V | 100 | 0 | 99.2 | -37.20 | Pass | NRB |
| 6348.697 | 55.77 | 5.06 | -7.05 | 53.78 | Peak [Scan] | V | 100 | 0 | 99.2 | -45.42 | Pass | NRB |
| 18000 | 42.59 | 8.78 | -0.43 | 50.94 | Peak [Scan] | V | 100 | 0 | 54 | -3.06 | Pass | |
| 2635.271 | 58.33 | 3.11 | -11.37 | 50.07 | Peak [Scan] | H | 100 | 0 | 99.2 | -49.13 | Pass | NRB |
| 1987.976 | 57.32 | 2.74 | -11.26 | 48.8 | Peak [Scan] | H | 100 | 0 | 54 | -5.2 | Pass | |
| 2498.998 | 56.77 | 3 | -11.26 | 48.51 | Peak [Scan] | H | 100 | 0 | 54 | -5.49 | Pass | |
| 1579.158 | 60.09 | 2.44 | -14.51 | 48.01 | Peak [Scan] | V | 100 | 0 | 54 | -5.99 | Pass | |

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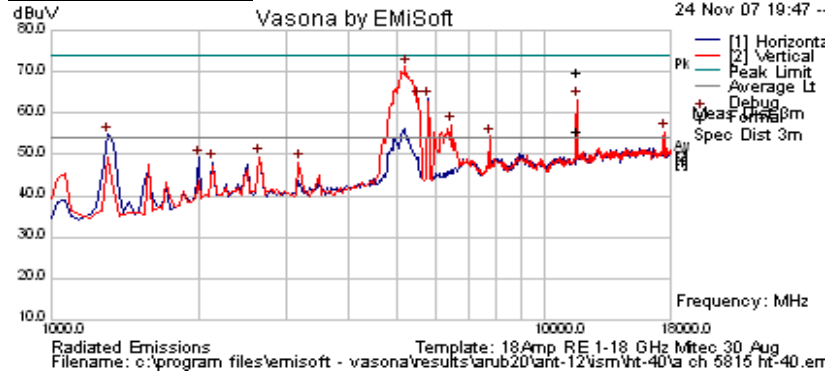


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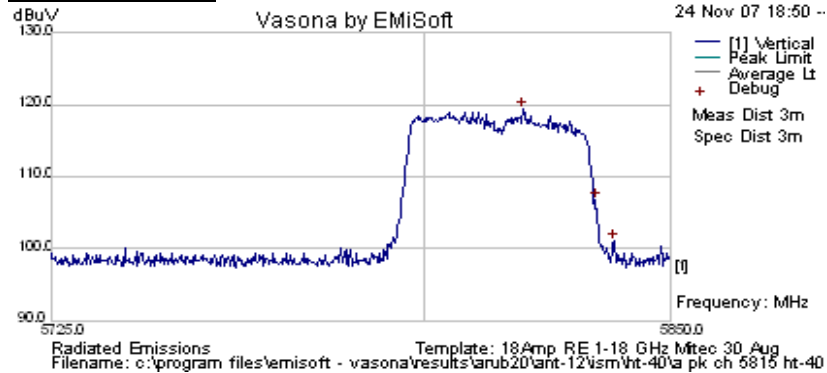
| AP124 - ANT-12 (14 dBi OMNI) Test Configuration | | | | | |
|---|------------|----------------------|------------|-----------------|-----------|
| Channel | Freq (MHz) | Software Pwr Setting | Duty Cycle | Data Rate (MCS) | Compliant |
| | 5815 | ART 12 | 99% | 13.5 HT-40 | Yes |

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 |
|---------------|----------|------------|-------|------------|------------------|-----|--------|---------|------------|-----------|------------|-------------|
| 5819.94 | 73.36 | 10.8 | 35.16 | 119.32 | Peak [Scan] | V | 100 | 0 | N/A | N/A | N/A | Fundamental |
| 5150.00 | | | | | | | | | | | | Band-edge |
| 5460.00 | | | | | | | | | | | | Band-edge |
| 11631.934 | 62.39 | 6.82 | -1.39 | 67.82 | Peak Max | V | 142 | 329 | 74 | -6.18 | Pass | |
| 11631.934 | 48 | 6.82 | -1.39 | 53.44 | Average Max | V | 142 | 329 | 54 | -0.56 | Pass | |
| 5224.449 | 75.78 | 4.62 | -9.09 | 71.31 | Peak [Scan] | V | 100 | 0 | 99.32 | -28.01 | Pass | NRB |
| 5531.062 | 67.27 | 4.64 | -8.32 | 63.59 | Peak [Scan] | V | 100 | 0 | 99.32 | -35.73 | Pass | NRB |
| 6450.902 | 58.7 | 5.11 | -6.57 | 57.24 | Peak [Scan] | V | 100 | 0 | 99.32 | -42.08 | Pass | NRB |
| 17454.91 | 47.36 | 8.74 | -0.56 | 55.55 | Peak [Scan] | V | 100 | 0 | 99.32 | -43.77 | Pass | NRB |

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Specification Limits

FCC §15.247(d) and RSS-210 §A8.5 In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

FCC §15.247(d)

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section §15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(a)).

IC RSS-210 §A8.5 If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required. In addition, radiated emissions which fall in the restricted bands of Table 1 must also comply with the radiated emission limits specified in Tables 2 and 3.

IC 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.

FCC §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.

FCC §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.

FCC §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.

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§15.209 (a) Limit Matrix

| Frequency(MHz) | Field Strength ($\mu\text{V/m}$) | Field Strength ($\text{dB}\mu\text{V/m}$) | 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 |

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5.1.6.2. Receiver Radiated Spurious Emissions (above 1 GHz)

Industry Canada RSS-Gen §4.8, §6

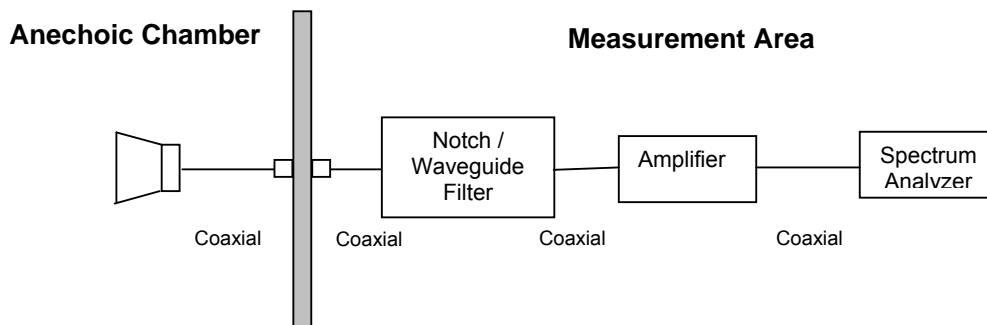
Test Procedure

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 simultaneously

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



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For example:

Given receiver input reading of 51.5 dB μ V; Antenna Factor of 8.5 dB; Cable Loss of 1.3 dB; Falloff Factor of 0 dB, an Amplifier Gain of 26 dB and Notch Filter Loss of 1 dB. The Field Strength of the measured emission is:

$$FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3 \text{ dB}\mu\text{V/m}$$

Conversion between dB μ V/m (or dB μ V) and μ V/m (or μ V) are done as:

$$\text{Level (dB}\mu\text{V/m)} = 20 * \text{Log (level (\mu\text{V/m}))}$$

$$40 \text{ dB}\mu\text{V/m} = 100 \mu\text{V/m}$$

$$48 \text{ dB}\mu\text{V/m} = 250 \mu\text{V/m}$$

Section 5.1.6.1 Transmitter Spurious above 1 GHz identifies that emissions peaking above 54 dB μ V/m emanate from the EUT and not transmitted through the antenna port. These (1 – 3.5 GHz) emissions were formally measured and characterized and are not considered when examining Receiver Radiated Spurious above 1 GHz.

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Receiver Radiated Spurious Emissions above 1 GHz

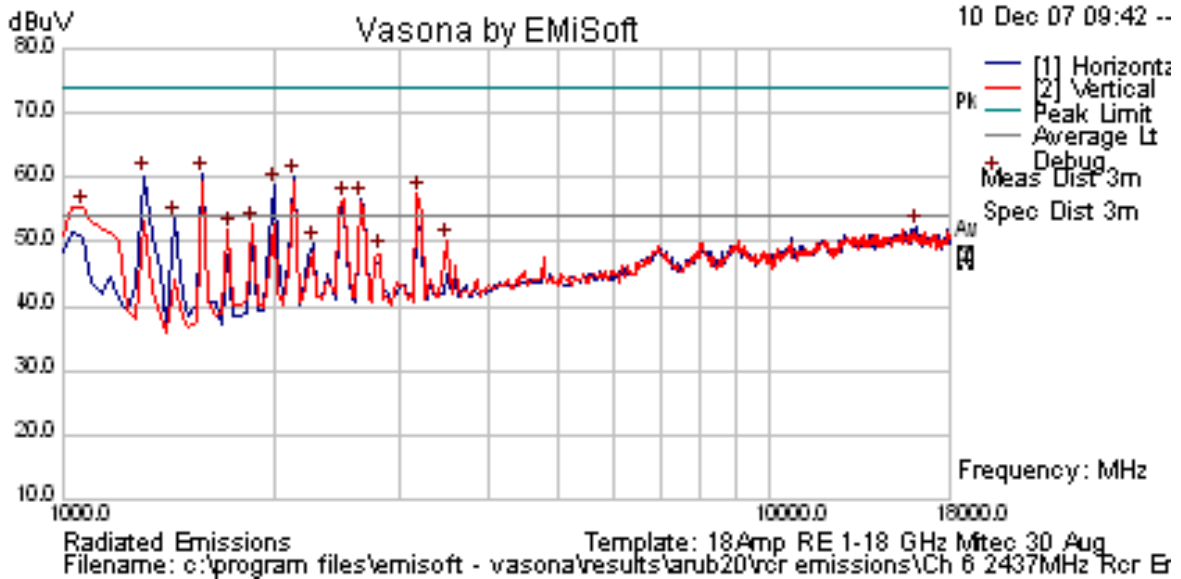
The 2.4 GHz and 5 GHz receiver radiated spurious emissions were tested simultaneously on mid-channel.

Test Setup – 2.4 GHz channel 2437 MHz, 5 GHz channel 5785 MHz

TABLE OF RESULTS –

| Freq. (MHz) | Pol. (H/V) | Raw Reading (dB μ V/m) | Correction Factor (dB) | Corrected Field Strength (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-------------|------------|----------------------------|------------------------|---|----------------------|-------------|
| | | | | | | |

**802.11b Channel 2437 MHz
Receiver Radiated Emissions**



See Section 5.1.6.1 for characterization of emissions (1 – 3.5 GHz) breaking the 54 dB μ V/m limit line.

No receiver emissions were observed.



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Specification

Receiver Radiated Spurious Emissions

Industry Canada RSS-Gen §4.8,

The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is the higher, to at least 3 times the highest tunable or local oscillator frequency, whichever is the higher, without exceeding 40 GHz.

RSS-Gen §6

The following receiver spurious emission limits shall be complied with;

(a) If a radiated measurement is made, all spurious emissions shall comply with the limits of Table 1.

| Frequency (MHz) | Field Strength ($\mu\text{V/m}$) | Field Strength ($\text{dB}\mu\text{V/m}$) | 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 |

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5.1.6.3. Radiated Spurious Emissions (30M-1 GHz)

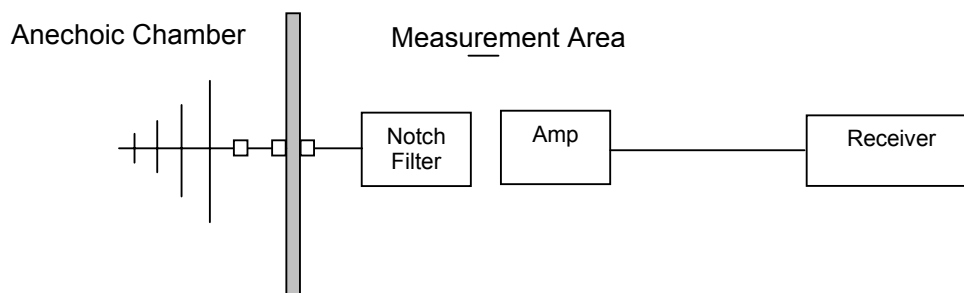
FCC, Part 15 Subpart C §15.205/ §15.209
Industry Canada RSS-210 §2.2

Test Procedure

Testing 30M-1 GHz was performed in a 3-meter anechoic chamber using a CISPR compliant receiver. Preliminary radiated emissions were measured on every azimuth and with the receiving antenna in both horizontal and vertical polarizations. To further maximize emissions the receive antenna was varied between 1 and 4 meters. The emissions are recorded with receiver in peak hold mode. Emissions closest to the limits are measured in the quasi-peak mode with the tuned receiver using a bandwidth of 120 kHz. Only the highest emissions relative to the limit are listed. The anechoic chamber test set-up is identified in Section 6 Test Set-Up Photographs.

The EUT had two methods of powering on ac/dc converter and Power over Ethernet (POE). Both modes were tested for emissions below 1GHz.

Test Measurement Set up



Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting Amplifier Gain from the measured reading. In this test facility, the Antenna Factor, Cable Loss, and Amplifier Gains are loaded into the Rohde & Schwarz Receiver and the corrected field strength can be read directly on the receiver.

$$FS = R + AF + CORR$$

where:

FS = Field Strength
R = Measured Receiver Input Amplitude
AF = Antenna Factor
CORR = Correction Factor = CL – AG + NFL
CL = Cable Loss
AG = Amplifier Gain



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For example:

Given a Receiver input reading of 51.5dB μ V; Antenna Factor of 8.5dB; Cable Loss of 1.3dB; Falloff Factor of 0dB, an Amplifier Gain of 26dB and Notch Filter Loss of 1dB. The Field Strength of the measured emission is:

$$FS = 51.5 + 8.5 + 1.3 - 26.0 + 1 = 36.3\text{dB}\mu\text{V/m}$$

Conversion between dB μ V/m (or dB μ V) and μ V/m (or μ V) are done as:

$$\text{Level (dB}\mu\text{V/m)} = 20 * \text{Log (level (\mu\text{V/m}))}$$

$$40 \text{ dB}\mu\text{V/m} = 100\mu\text{V/m}$$

$$48 \text{ dB}\mu\text{V/m} = 250\mu\text{V/m}$$

Measurement Results for Spurious Emissions (30 MHz – 1 GHz)

Ambient conditions.

Temperature: 17 to 23 °C Relative humidity: 31 to 57 % Pressure: 999 to 1012 mbar

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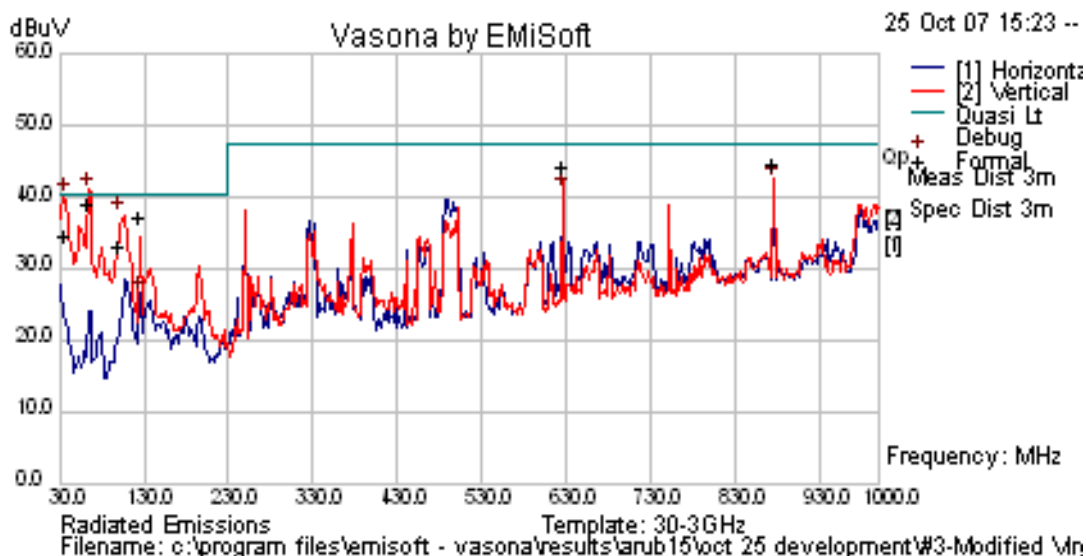


TABLE OF RESULTS

EUT powered via AC/DC Converter

| Freq. (MHz) | Peak (dBuV/m) | QP (dBuV/m) | QP Lmt (dBuV/m) | QP Margin (dB) | Angle (deg) | Height (cm) | Polarity |
|----------------|------------------|----------------|--------------------|-------------------|----------------|----------------|----------|
| 37.435 | 40.29 | 32.89 | 40.5 | -7.61 | 303 | 98 | V |
| 65.034 | 41.09 | 37.15 | 40.5 | -3.35 | 286 | 98 | V |
| 100.489 | 37.58 | 31.55 | 40.5 | -8.95 | 105 | 103 | V |
| 125.008 | 26.69 | 35.38 | 40.5 | -5.12 | 174 | 98 | V |
| 625.011 | 41.2 | 42.51 | 47.5 | -4.99 | 130 | 110 | H |
| 875.054 | 42.57 | 42.84 | 47.5 | -4.66 | 0 | 102 | V |

Radiated Spurious Emissions 30 MHz to 1 GHz – AC/DC Converter



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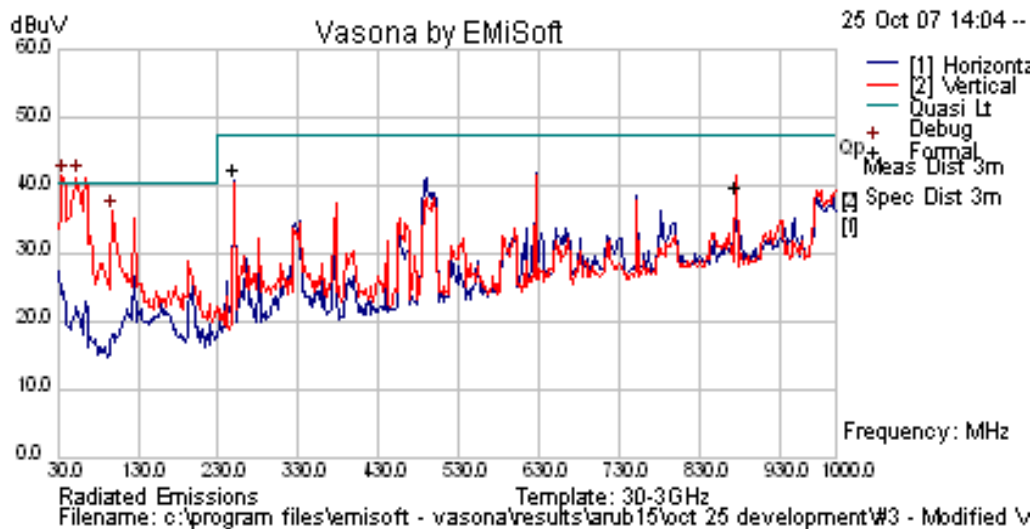


TABLE OF RESULTS

EUT powered via POE

| Freq. (MHz) | Peak (dBuV/m) | QP (dBuV/m) | QP Lmt (dBuV/m) | QP Margin (dB) | Angle (deg) | Height (cm) | Polarity |
|----------------|------------------|----------------|--------------------|-------------------|----------------|----------------|----------|
| 38.846 | 41.38 | 34.54 | 40.5 | -5.96 | 243 | 98 | V |
| 55.443 | 41.3 | 38.15 | 40.5 | -2.35 | 44 | 101 | V |
| 98.097 | 36.18 | 34.47 | 40.5 | -6.03 | 80 | 118 | V |

Radiated Spurious Emissions 30 MHz to 1 GHz - POE



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Specification

Limits

§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.

§15.209 (a) and RSS-Gen §2.2 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 |

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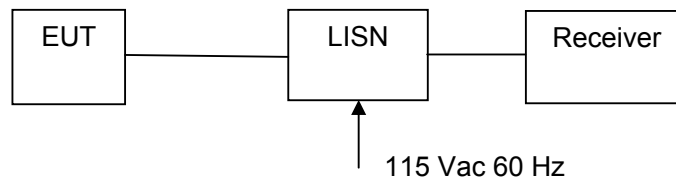
5.1.7. AC Wireline Conducted Emissions (150 kHz – 30 MHz)

FCC, Part 15 Subpart C §15.207
Industry Canada RSS-Gen §7.2.2

Test Procedure

The EUT is configured in accordance with ANSI C63.4. The conducted emissions are measured in a shielded room with a spectrum analyzer in peak hold in the first instance. Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation. The highest emissions relative to the limit are listed.

Test Measurement Set up



Measurement set up for AC Wireline Conducted Emissions Test

Measurement Results for AC Wireline Conducted Emissions (150 kHz – 30 MHz)

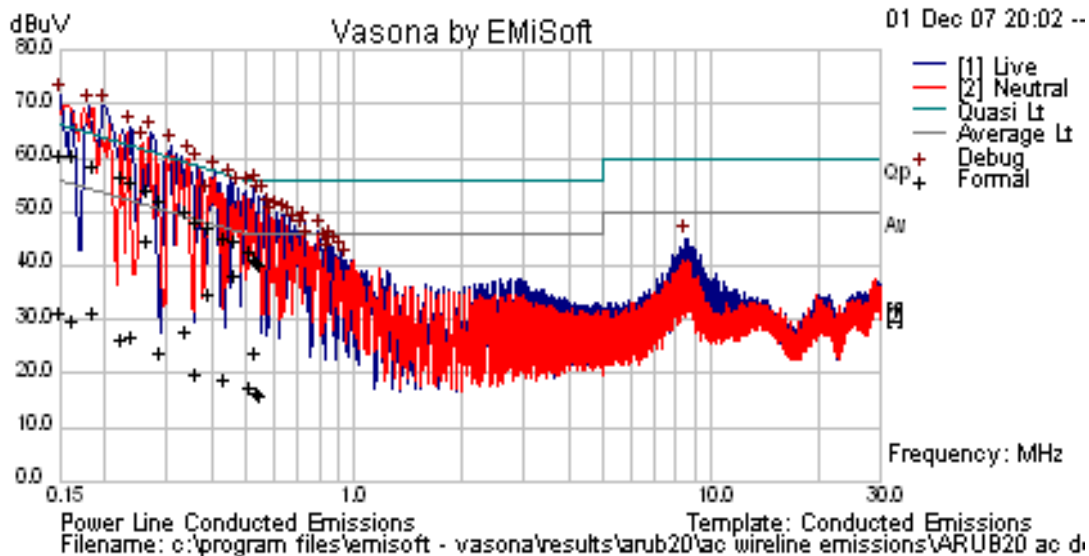
Ambient conditions.

Temperature: 17 to 23 °C Relative humidity: 31 to 57 % Pressure: 999 to 1012 mbar

TABLE OF RESULTS – ac/dc Converter

| Freq (MHz) | Line | Peak (dB μ V) | QP (dB μ V) | QP Limit (dB μ V) | QP Margin (dB) | Ave. (dB μ V) | Ave. Limit (dB μ V) | Ave. Margin (dB) |
|------------|------|-------------------|-----------------|-----------------------|----------------|-------------------|-------------------------|------------------|
| 0.150 | Live | 71.57 | 58.36 | 65.99 | -7.64 | 29.19 | 55.99 | -26.80 |
| 0.187 | Live | 69.74 | 55.98 | 64.18 | -8.21 | 29.05 | 54.18 | -25.13 |
| 0.265 | Live | 64.52 | 51.52 | 61.27 | -9.75 | 42.39 | 51.27 | -8.89 |
| 0.392 | Live | 52.92 | 45.03 | 58.02 | -12.99 | 32.22 | 48.02 | -15.8 |
| 0.463 | Live | 55.83 | 42.49 | 56.65 | -14.16 | 35.68 | 46.65 | -10.97 |
| 0.534 | Live | 54.53 | 38.97 | 56.00 | -17.03 | 21.39 | 46.00 | -24.61 |

AC Wireline Conducted Emissions –150 kHz – 30 MHz) ac/dc Converter

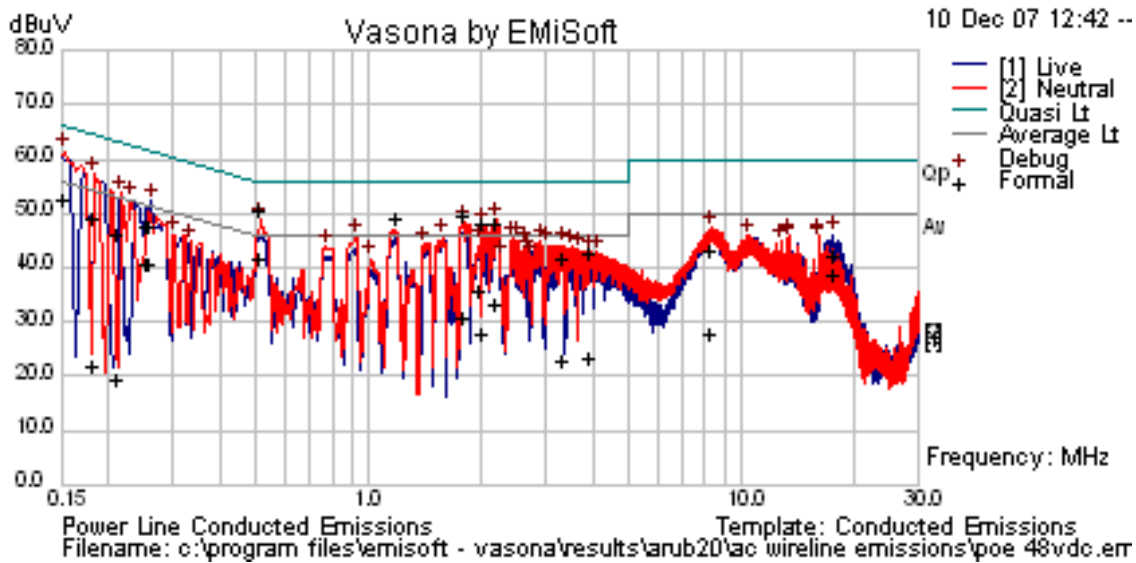


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TABLE OF RESULTS – POE

| Freq (MHz) | Lline | Peak (dBμV) | QP (dBμV) | QP Limit (dBμV) | QP Margin (dB) | Ave. (dBμV) | Ave. Limit (dBμV) | Ave. Margin (dB) |
|------------|---------|-------------|-----------|-----------------|----------------|-------------|-------------------|------------------|
| 0.154 | Neutral | | 50.3 | 65.78 | -15.48 | 50.3 | 55.78 | -5.48 |
| 0.515 | Neutral | | 48.08 | 56.00 | -7.92 | 39.28 | 46.00 | -6.72 |
| 2.204 | Neutral | | 45.93 | 56.00 | -10.07 | 30.93 | 46.00 | -15.17 |
| 1.803 | Neutral | | 47.31 | 56.00 | -8.69 | 28.60 | 46.00 | -17.40 |
| 2.039 | Neutral | | 45.94 | 56.00 | -10.06 | 25.65 | 46.00 | -20.35 |
| 1.195 | Neutral | | 44.77 | 56.00 | -11.23 | 23.71 | 46.00 | -22.29 |

AC Wireline Conducted Emissions –150 kHz – 30 MHz) POE



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Specification

Limit

§15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 $\mu\Omega$ line impedance stabilization network (LISN), see §15.207 (a) matrix below. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

RSS-Gen §7.2.2

The radio frequency voltage that is conducted back into the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table below. The tighter limit applies at the frequency range boundaries.

§15.207 (a) and **RSS-Gen §7.2.2** Limit Matrix

The lower limit applies at the boundary between frequency ranges

| Frequency of Emission (MHz) | Conducted Limit (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

* Decreases with the logarithm of the frequency

Laboratory Measurement Uncertainty for Conducted Emissions

| | |
|-------------------------|---------------|
| Measurement uncertainty | ± 2.64 dB |
|-------------------------|---------------|

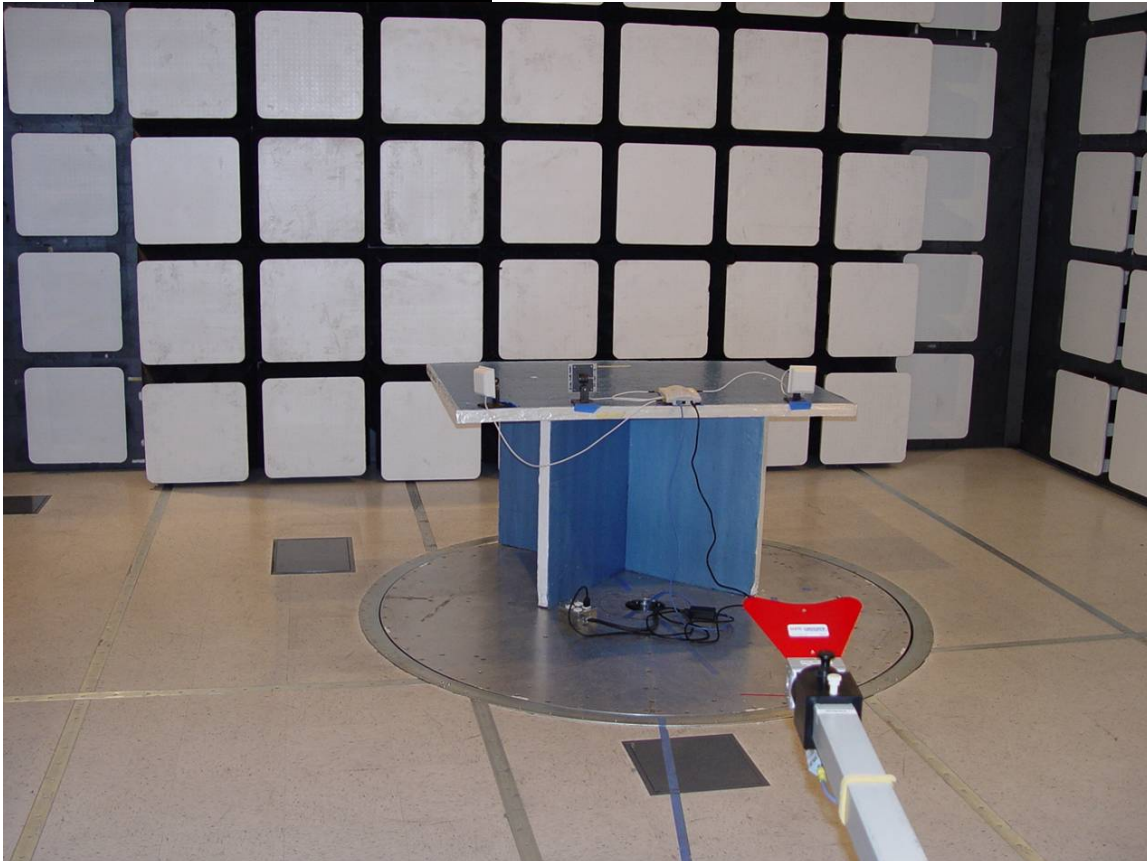
Traceability

| Method | Test Equipment Used |
|--|------------------------------------|
| Measurements were made per work instruction WI-EMC-01 'Measurement of Conducted Emissions' | 0158, 0184, 0193, 0190, 0293, 0307 |

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6. PHOTOGRAPHS

6.1. Radiated Emissions > 1GHz



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6.2. Radiated Emissions < 1GHz with ac Power Converter



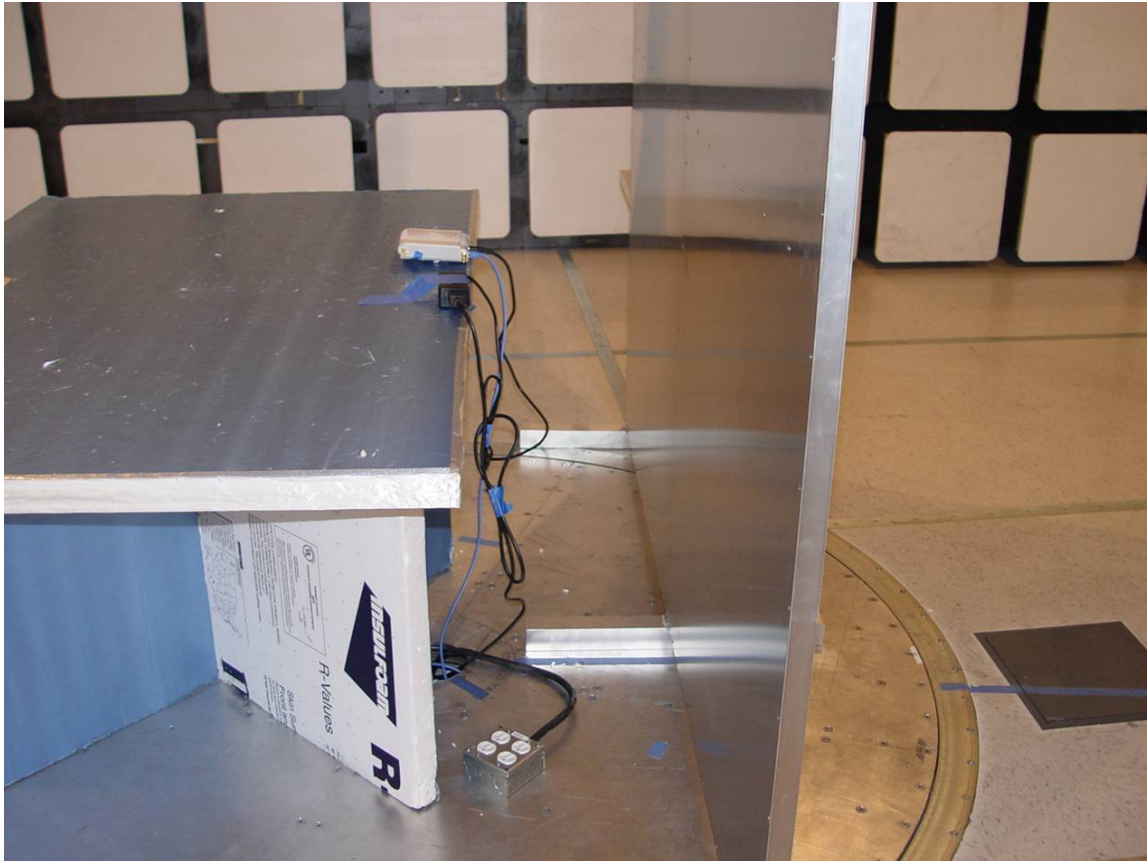
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6.3. Radiated Emissions < 1GHz with POE (Power Over EtherNet)



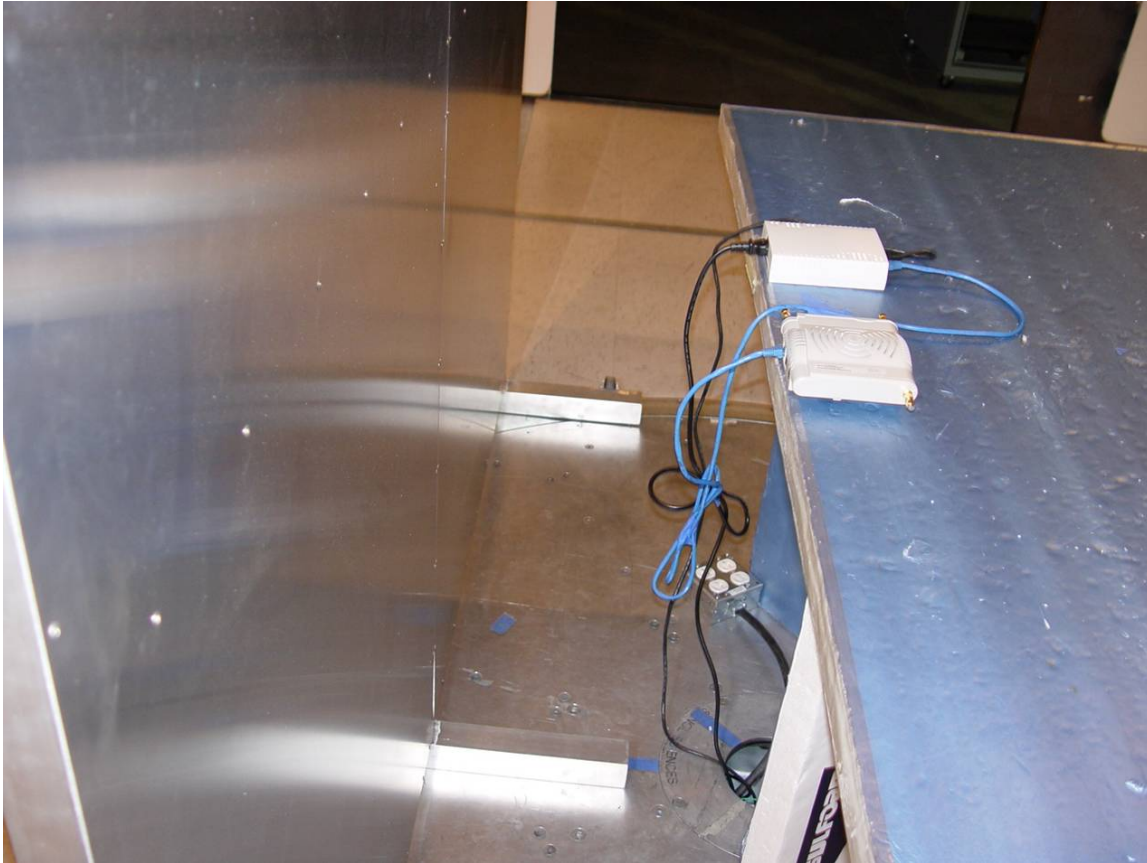
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6.4. AC Wireline Conducted Emissions ac/dc Converter



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6.5. AC Wireline Conducted Emissions POE



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6.6. General Measurement Test Set-Up



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Title: Aruba AP-124,125 802.11a/b/g/n AP
To: FCC 47 CFR Part 15.247 & IC RSS-210
Serial #: ARUB20-A2 Rev A
Issue Date: 11th December 2007
Page: 267 of 268

7. TEST EQUIPMENT DETAILS

| Asset # | Instrument | Manufacturer | Part # | Serial # |
|---------|---------------------------|------------------|---------------------------|-------------|
| 0088 | Spectrum Analyzer | Hewlett Packard | 8564E | 3410A00141 |
| 0134 | Amplifier | Com Power | PA 122 | 181910 |
| 0158 | Barometer /Thermometer | Control Co. | 4196 | E2846 |
| 0193 | EMI Receiver | Rhode & Schwartz | ESI 7 | 838496/007 |
| 0252 | SMA Cable | Megaphase | Sucoflex 104 | None |
| 0310 | 2m SMA Cable | Micro-Coax | UFA210A-0-0787- 3G03G0 | 209089-001 |
| 0312 | 3m SMA Cable | Micro-Coax | UFA210A-1-1181- 3G0300 | 209092-001 |
| 0313 | Coupler | Hewlett Packard | 86205A | 3140A01285 |
| 0314 | 30dB N-Type Attenuator | ARRA | N9444-30 | 1623 |
| 0070 | Power Meter | Hewlett Packard | 437B | 3125U11552 |
| 0116 | Power Sensor | Hewlett Packard | 8485A | 3318A19694 |
| 0117 | Power Sensor | Hewlett Packard | 8487D | 3318A00371 |
| 0184 | Pulse Limiter | Rhode & Schwartz | ESH3Z2 | 357.8810.52 |
| 0190 | LISN | Rhode & Schwartz | ESH3Z5 | 836679/006 |
| 0293 | BNC Cable | Megaphase | 1689 1GVT4 | 15F50B001 |
| 0301 | 5.6 GHz Notch Filter | Micro-Tronics | RBC50704 | 001 |
| 0302 | 5.25 GHz Notch Filter | Micro-Tronics | BRC50703 | 002 |
| 0303 | 5.8 GHz Notch Filter | Micro-Tronics | BRC50705 | 003 |
| 0304 | 2.4GHzHz Notch Filter | Micro-Tronics | -- | 001 |
| 0307 | BNC Cable | Megaphase | 1689 1GVT4 | 15F50B002 |
| 0335 | 1-18GHz Horn Antenna | ETS- Lindgren | 3117 | 00066580 |
| 0337 | Amplifier | MiCOM Labs | -- | -- |
| 0338 | Antenna | Sunol Sciences | JB-3 | A052907 |

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