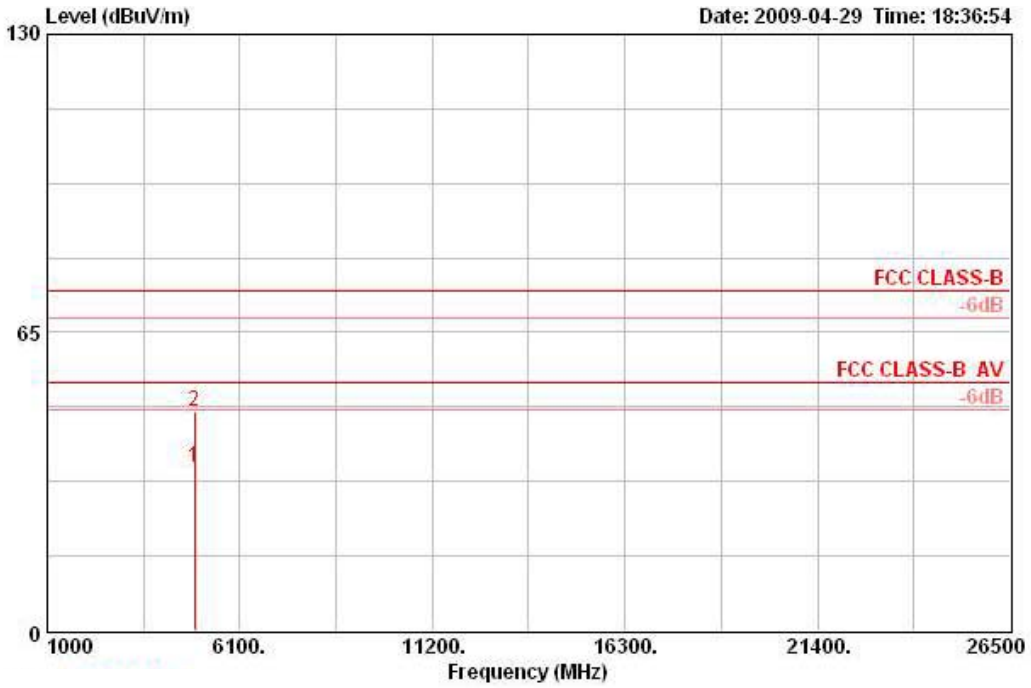
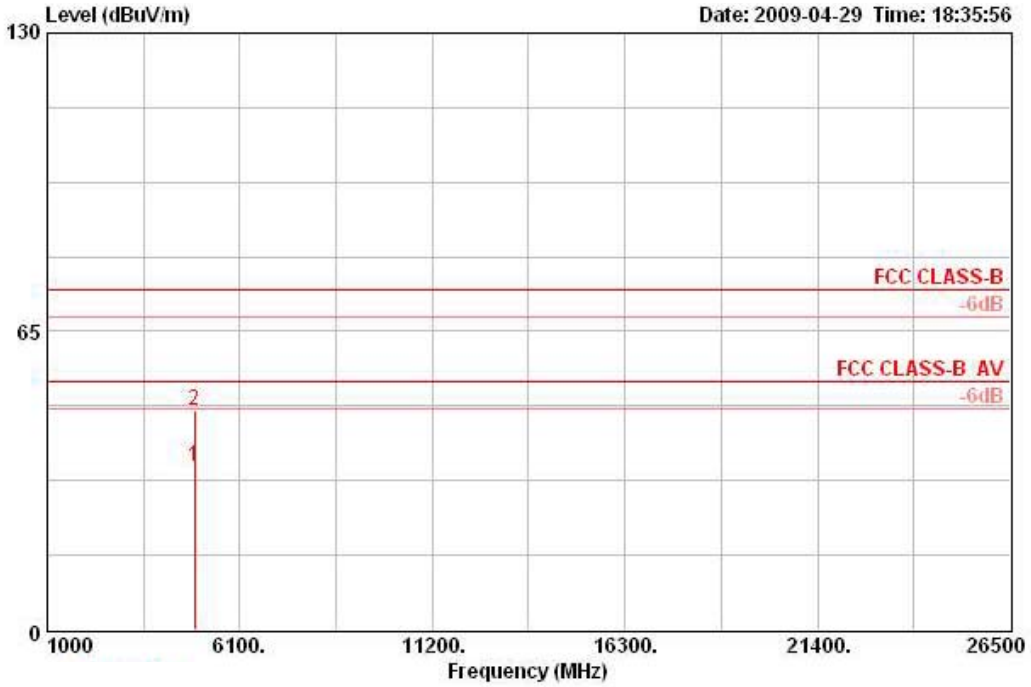
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | Draft n MCS0 40MHz Ch 9 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 4904.001 | 35.41 | -18.59 | 54.00 | 30.42 | 33.54 | 35.20 | 6.65 | AVERAGE | HORIZONTAL | 0 | 100 |
| 2 | 4904.019 | 47.84 | -26.16 | 74.00 | 42.85 | 33.54 | 35.20 | 6.65 | PEAK | HORIZONTAL | 0 | 100 |

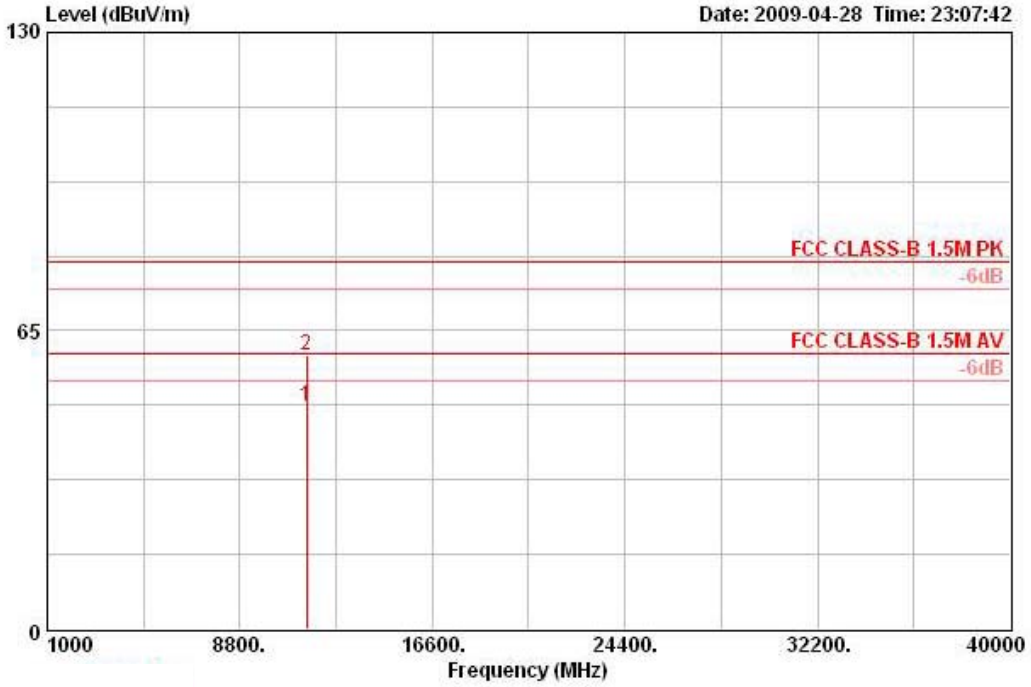
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 4903.982 | 35.53 | -18.47 | 54.00 | 30.54 | 33.54 | 35.20 | 6.65 | AVERAGE | VERTICAL | 360 | 100 |
| 2 | 4904.008 | 47.83 | -26.17 | 74.00 | 42.83 | 33.54 | 35.20 | 6.65 | PEAK | VERTICAL | 360 | 100 |

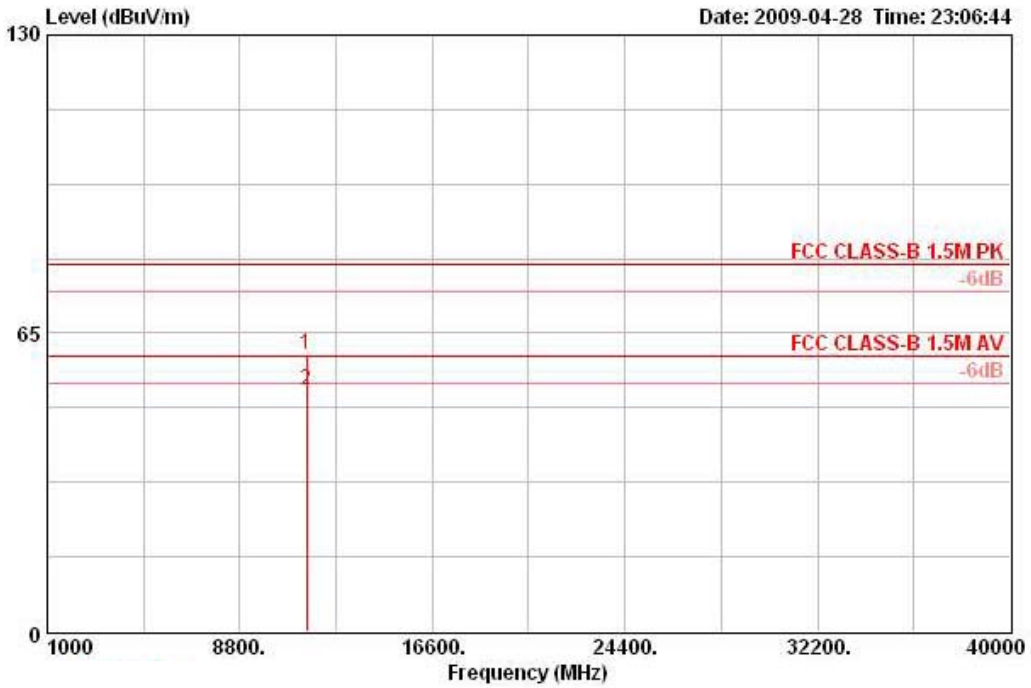
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 11a Draft n MCS0 20MHz CH 149 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11490.000 | 48.62 | -11.38 | 60.00 | 33.32 | 39.50 | 35.09 | 10.90 | AVERAGE | HORIZONTAL | 91 | 100 |
| 2 @ | 11490.000 | 59.71 | -20.29 | 80.00 | 44.41 | 39.50 | 35.09 | 10.90 | PEAK | HORIZONTAL | 91 | 100 |

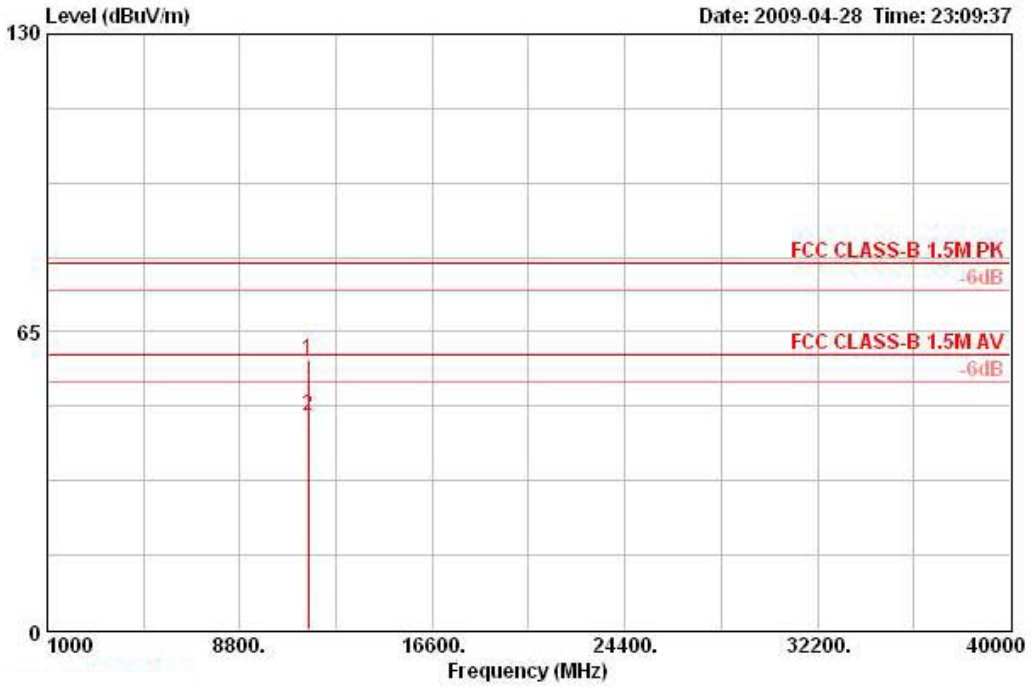
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11490.010 | 60.25 | -19.75 | 80.00 | 44.94 | 39.50 | 35.09 | 10.90 | PEAK | VERTICAL | 360 | 100 |
| 2 @ | 11490.020 | 52.60 | -7.40 | 60.00 | 37.30 | 39.50 | 35.09 | 10.90 | AVERAGE | VERTICAL | 360 | 100 |

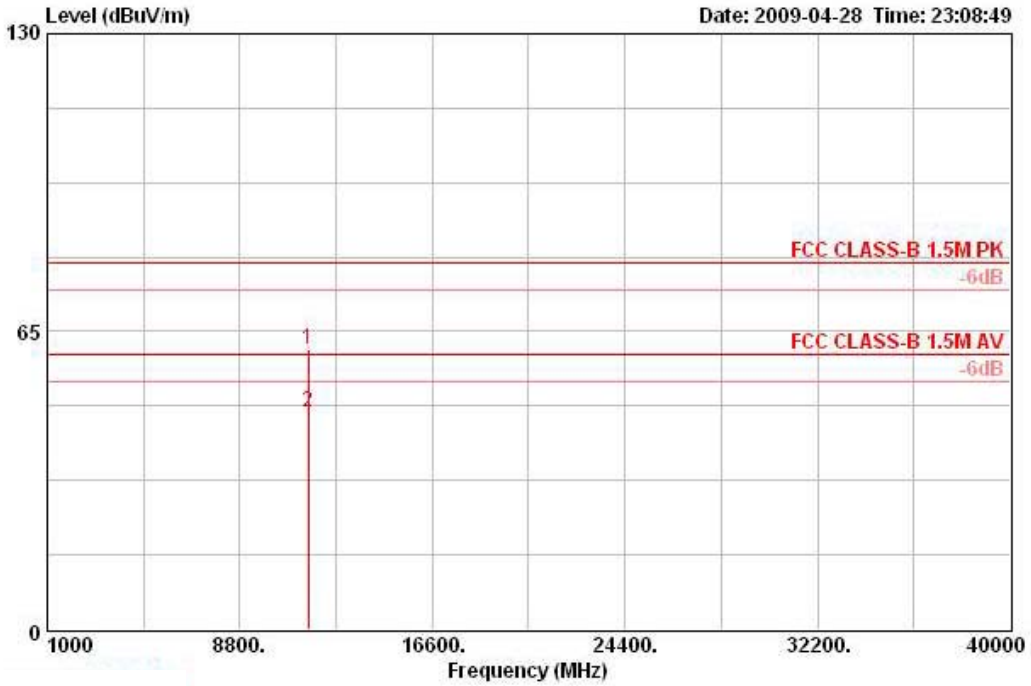
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 11a Draft n MCS0 20MHz CH 157 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11570.000 | 59.04 | -20.96 | 80.00 | 43.82 | 39.47 | 35.09 | 10.83 | PEAK | HORIZONTAL | 286 | 100 |
| 2 @ | 11570.020 | 46.57 | -13.43 | 60.00 | 31.35 | 39.47 | 35.09 | 10.83 | AVERAGE | HORIZONTAL | 286 | 100 |

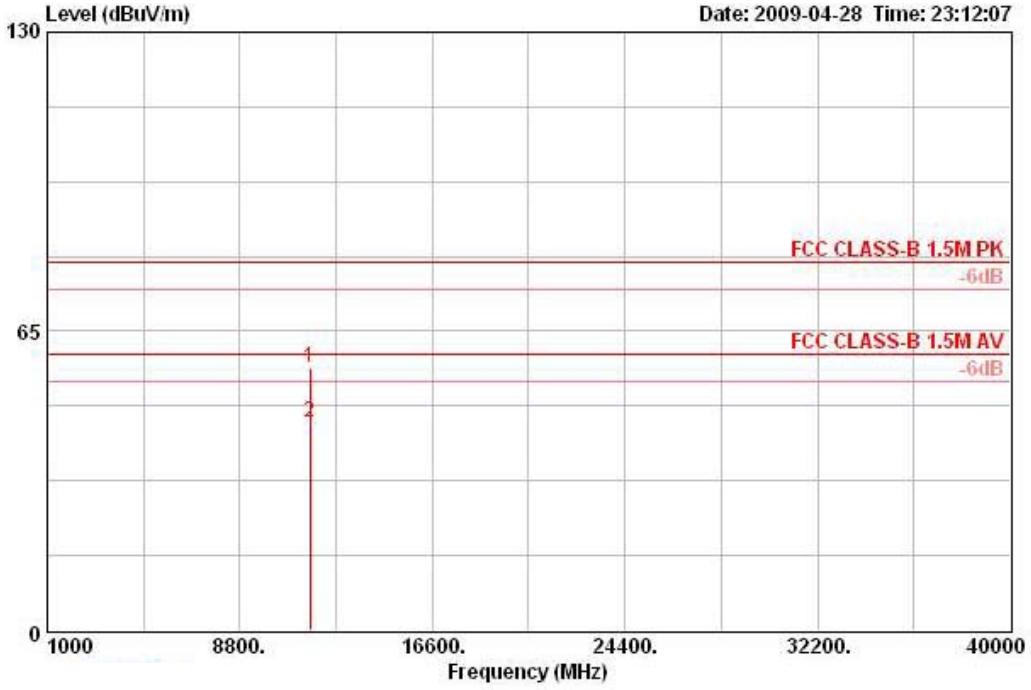
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11569.990 | 61.04 | -18.96 | 80.00 | 45.82 | 39.47 | 35.09 | 10.83 | PEAK | VERTICAL | 42 | 100 |
| 2 @ | 11570.010 | 47.40 | -12.60 | 60.00 | 32.19 | 39.47 | 35.09 | 10.83 | AVERAGE | VERTICAL | 42 | 100 |

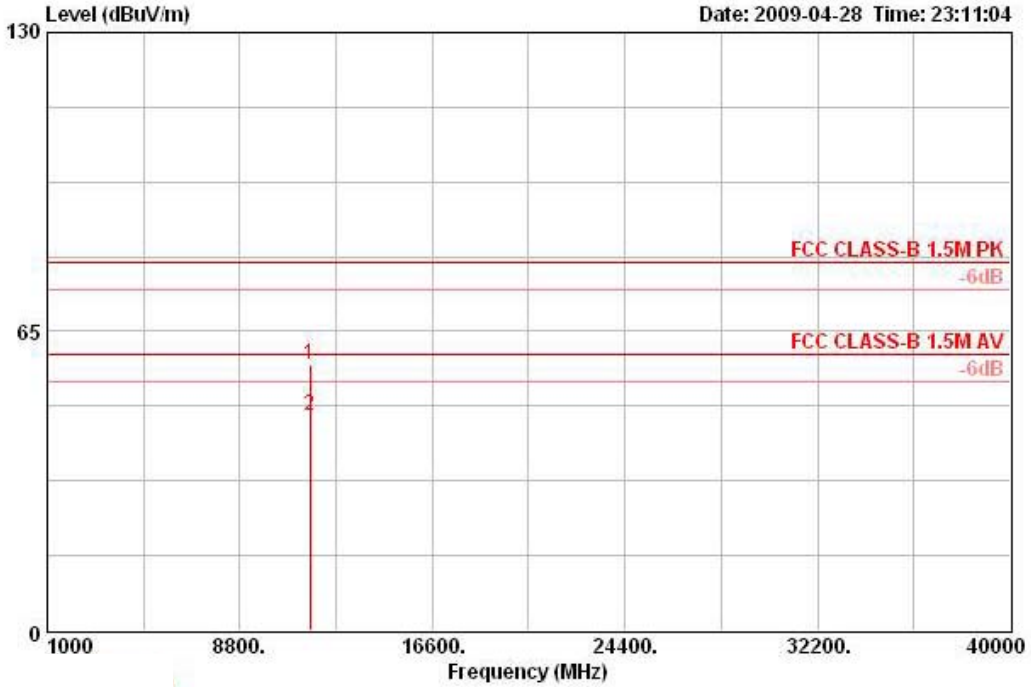
| Temperature | 25.6℃ | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 11a Draft n MCS0 20MHz CH 165 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11649.980 | 57.19 | -22.81 | 80.00 | 42.09 | 39.44 | 35.07 | 10.72 | PEAK | HORIZONTAL | 360 | 100 |
| 2 @ | 11650.010 | 45.15 | -14.85 | 60.00 | 30.06 | 39.44 | 35.07 | 10.72 | AVERAGE | HORIZONTAL | 360 | 8485 |

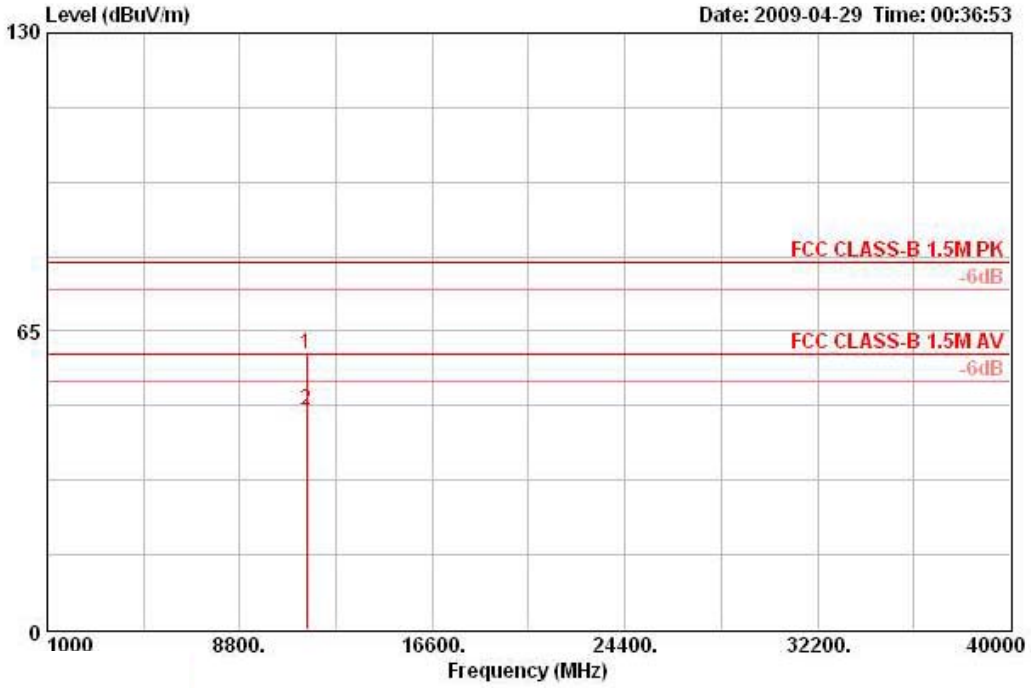
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11649.980 | 57.70 | -22.30 | 80.00 | 42.60 | 39.44 | 35.07 | 10.72 | PEAK | VERTICAL | 0 | 100 |
| 2 @ | 11649.990 | 46.55 | -13.45 | 60.00 | 31.46 | 39.44 | 35.07 | 10.72 | AVERAGE | VERTICAL | 0 | 100 |

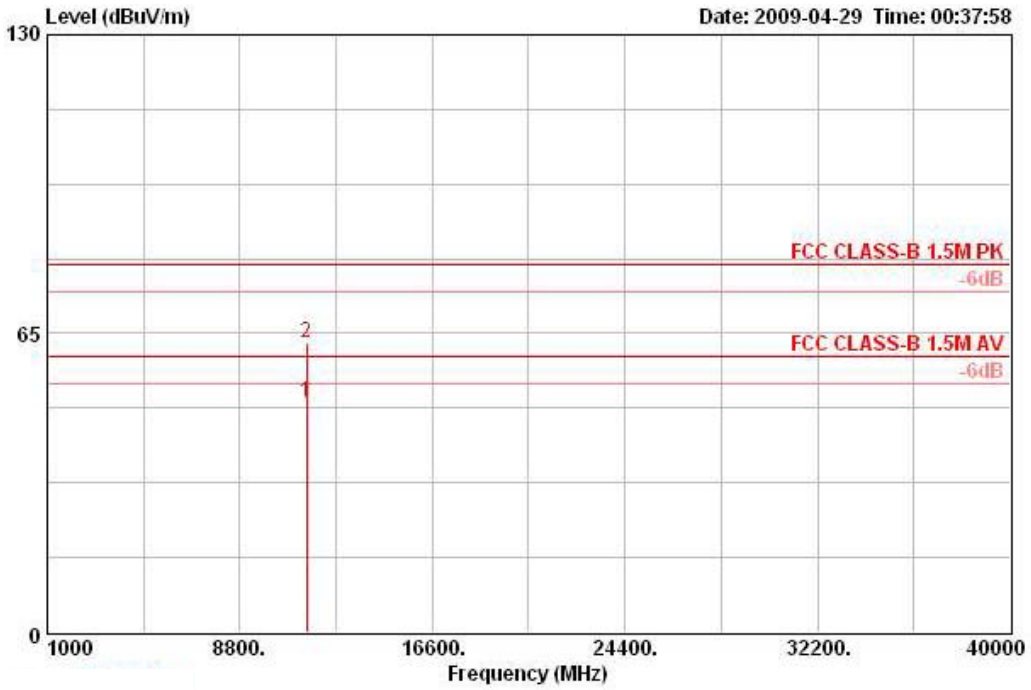
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 11a Draft n MCS0 40MHz CH 151 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11509.990 | 59.82 | -20.18 | 80.00 | 44.49 | 39.50 | 35.10 | 10.93 | PEAK | HORIZONTAL | 0 | 100 |
| 2 @ | 11510.000 | 47.73 | -12.27 | 60.00 | 32.40 | 39.50 | 35.10 | 10.93 | AVERAGE | HORIZONTAL | 0 | 100 |

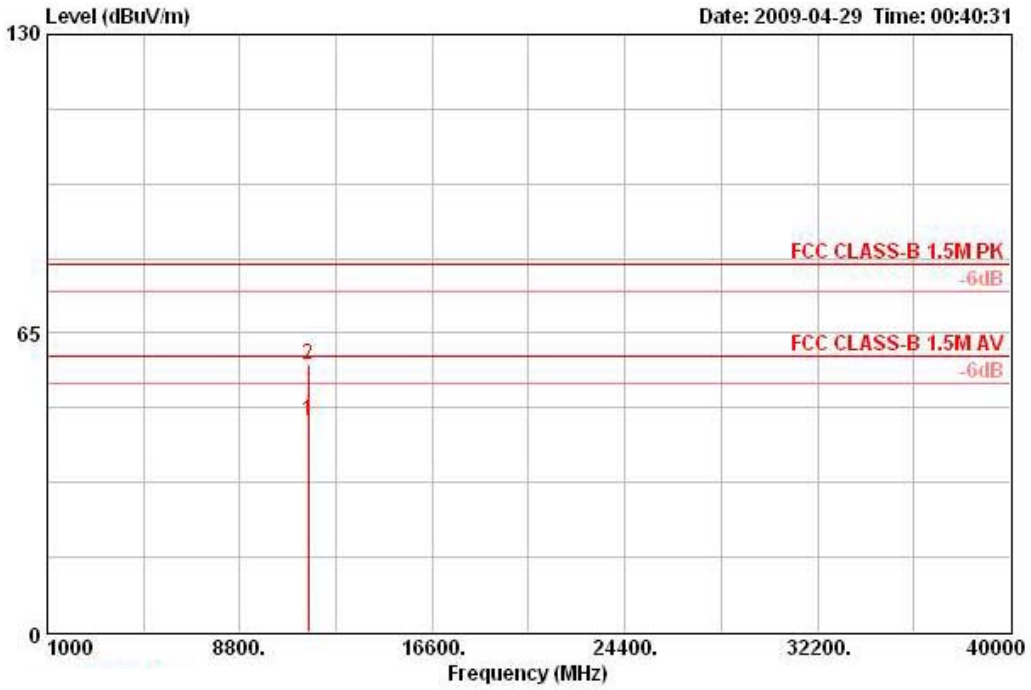
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11509.980 | 50.10 | -9.90 | 60.00 | 34.77 | 39.50 | 35.10 | 10.93 | AVERAGE | VERTICAL | 266 | 100 |
| 2 @ | 11510.000 | 63.01 | -16.99 | 80.00 | 47.68 | 39.50 | 35.10 | 10.93 | PEAK | VERTICAL | 266 | 100 |

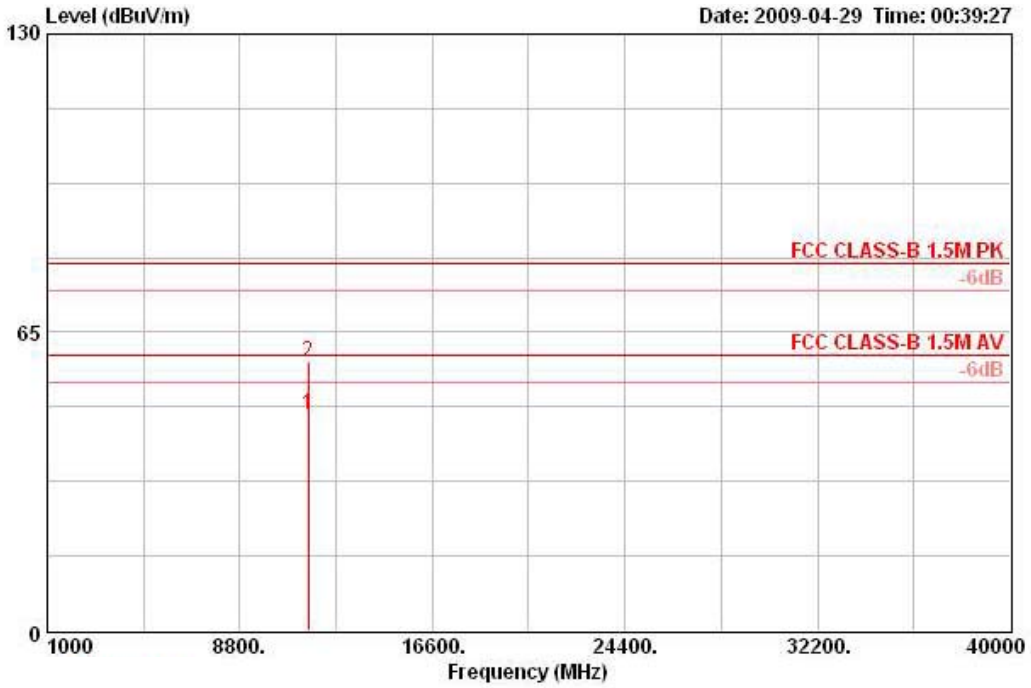
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 11a Draft n MCS0 40MHz CH 159 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11589.980 | 45.81 | -14.19 | 60.00 | 30.60 | 39.47 | 35.08 | 10.83 | AVERAGE | HORIZONTAL | 360 | 100 |
| 2 @ | 11589.990 | 58.11 | -21.89 | 80.00 | 42.90 | 39.47 | 35.08 | 10.83 | PEAK | HORIZONTAL | 360 | 100 |

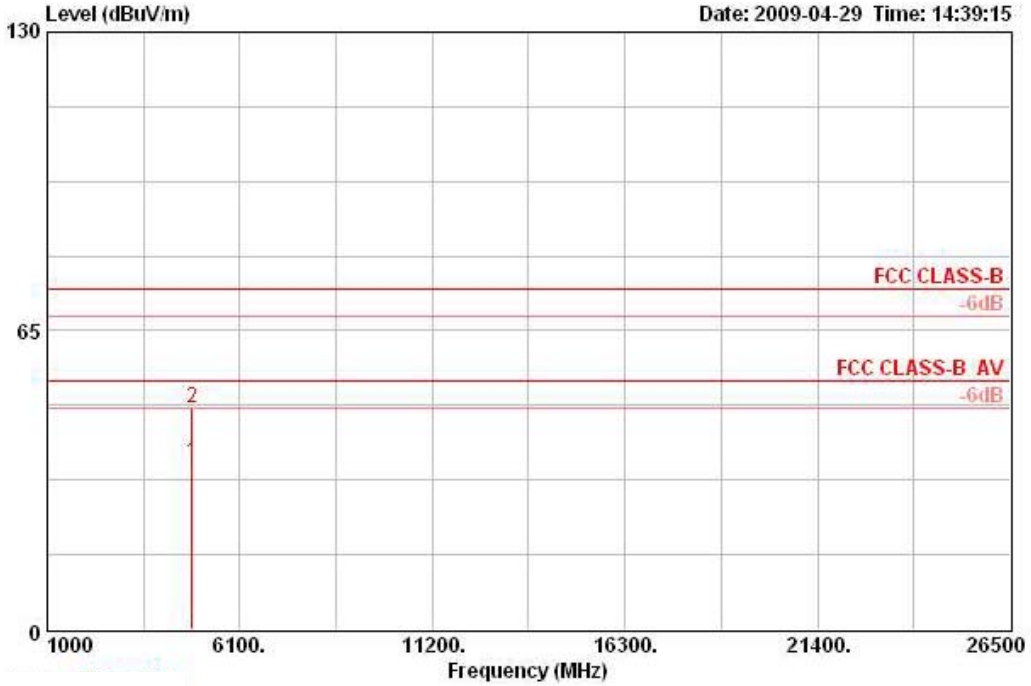
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11589.980 | 46.99 | -13.01 | 60.00 | 31.78 | 39.47 | 35.08 | 10.83 | AVERAGE | VERTICAL | 0 | 8960 |
| 2 @ | 11589.980 | 58.67 | -21.33 | 80.00 | 43.46 | 39.47 | 35.08 | 10.83 | PEAK | VERTICAL | 0 | 100 |

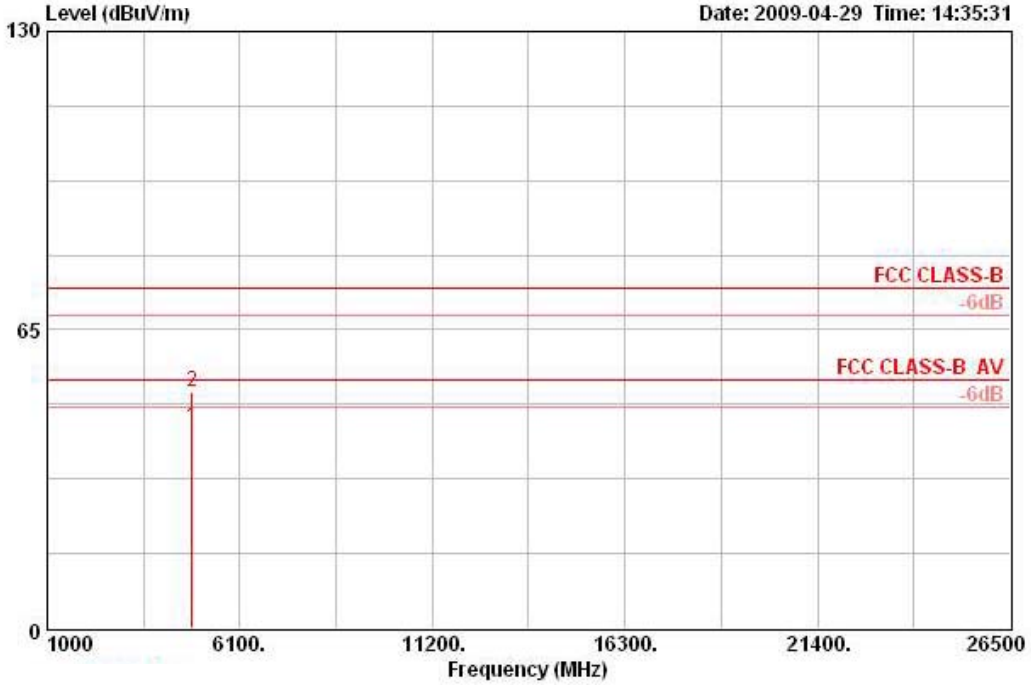
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 802.11b CH 1 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 4823.948 | 36.16 | -17.84 | 54.00 | 31.58 | 33.39 | 35.20 | 6.39 | AVERAGE | HORIZONTAL | 73 | 156 |
| 2 | 4824.200 | 48.00 | -26.00 | 74.00 | 43.43 | 33.39 | 35.20 | 6.39 | PEAK | HORIZONTAL | 73 | 156 |

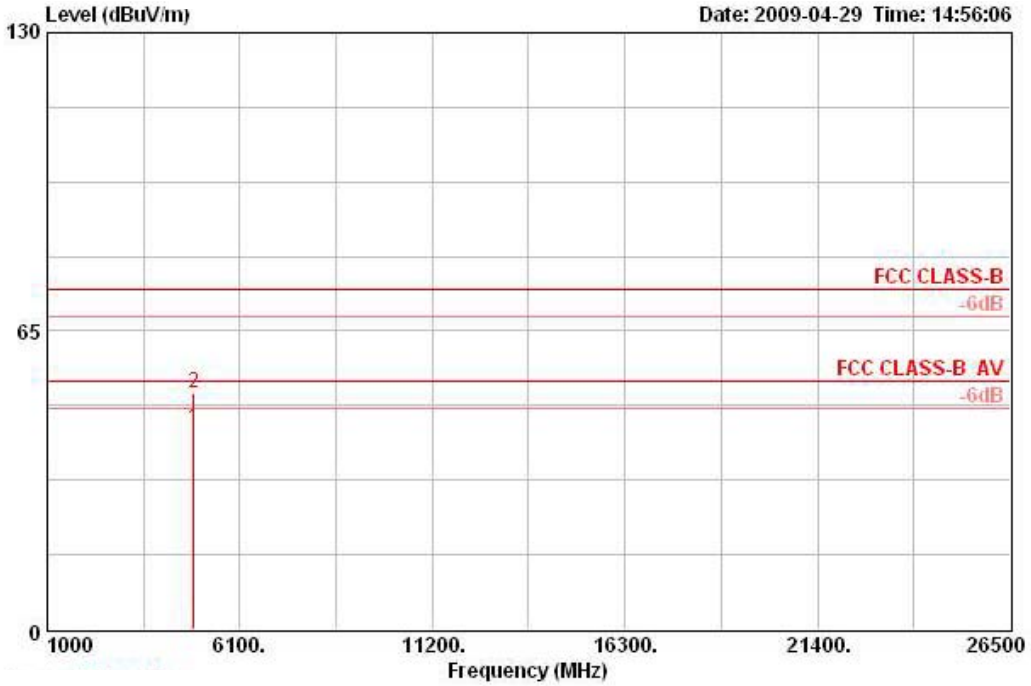
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 4823.952 | 43.66 | -10.34 | 54.00 | 39.08 | 33.39 | 35.20 | 6.39 | AVERAGE | VERTICAL | 92 | 203 |
| 2 | 4824.156 | 51.38 | -22.62 | 74.00 | 46.80 | 33.39 | 35.20 | 6.39 | PEAK | VERTICAL | 92 | 203 |

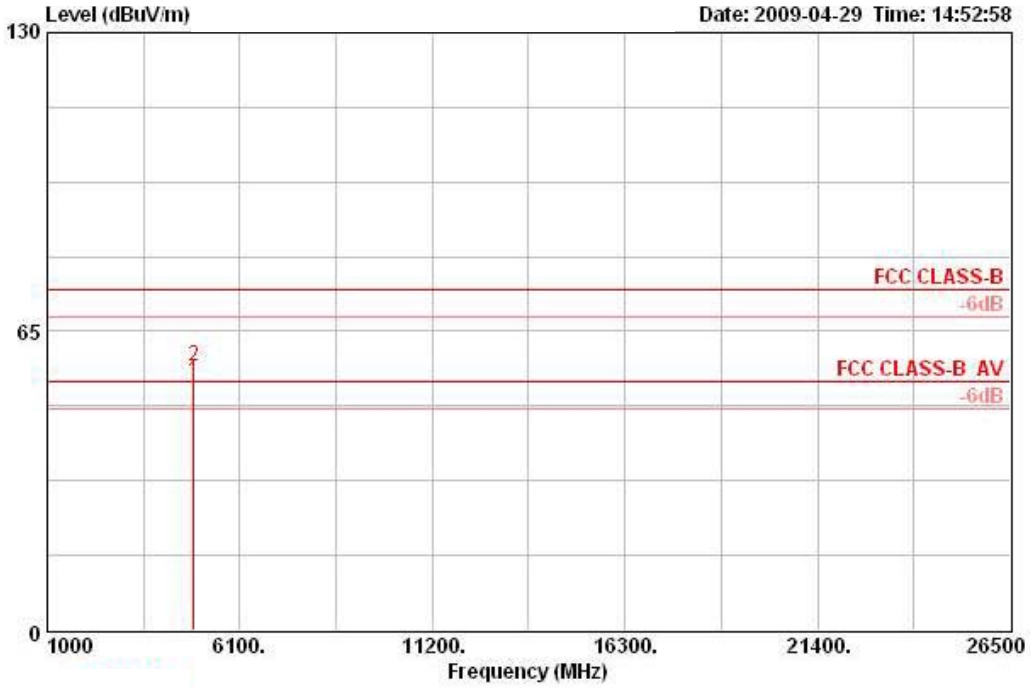
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 802.11b CH 6 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 4873.992 | 43.59 | -10.41 | 54.00 | 38.75 | 33.48 | 35.20 | 6.56 | AVERAGE | HORIZONTAL | 313 | 100 |
| 2 | 4874.020 | 51.36 | -22.64 | 74.00 | 46.52 | 33.48 | 35.20 | 6.56 | PEAK | HORIZONTAL | 313 | 100 |

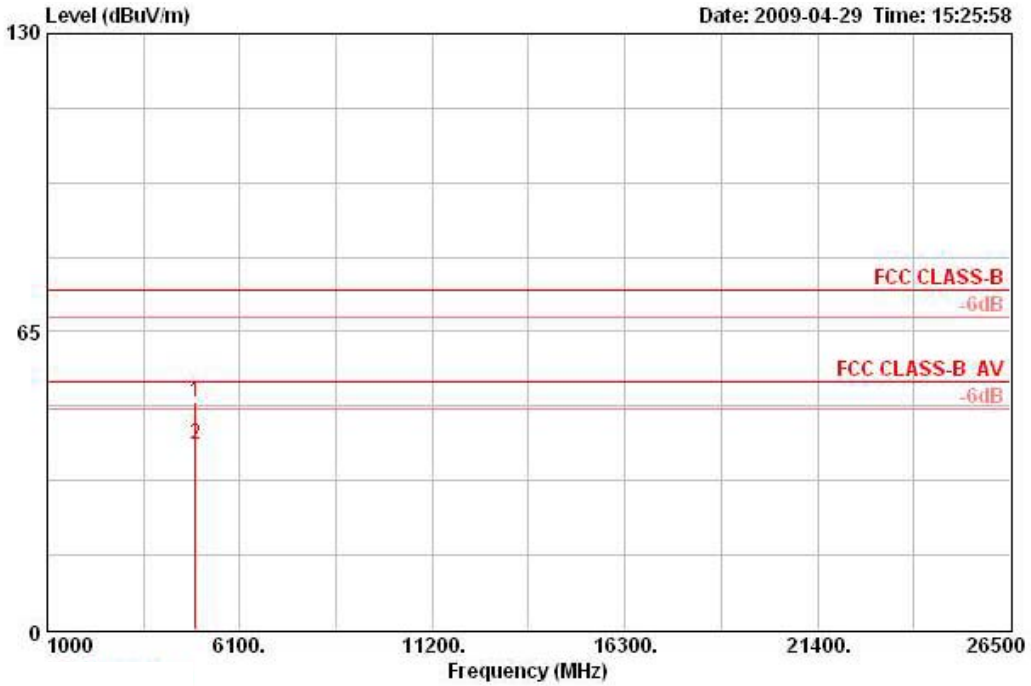
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 4873.952 | 53.89 | -0.11 | 54.00 | 49.05 | 33.48 | 35.20 | 6.56 | AVERAGE | VERTICAL | 270 | 124 |
| 2 @ | 4874.020 | 57.27 | -16.73 | 74.00 | 52.42 | 33.48 | 35.20 | 6.56 | PEAK | VERTICAL | 269 | 124 |

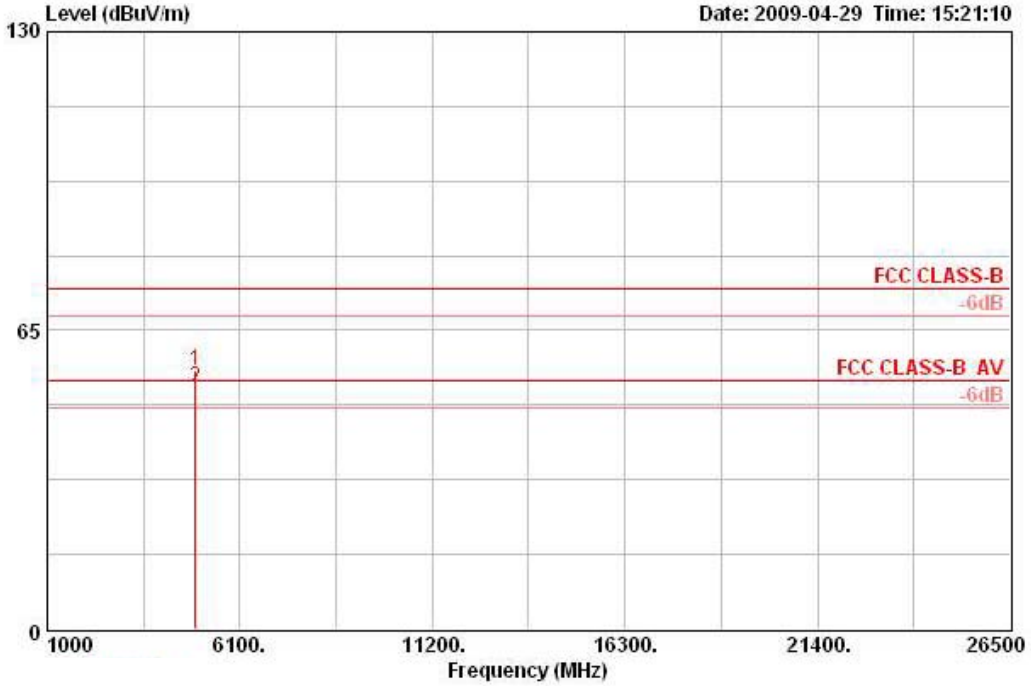
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 802.11b CH 11 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 | 4923.760 | 49.65 | -24.35 | 74.00 | 44.54 | 33.58 | 35.20 | 6.73 | PEAK | HORIZONTAL | 246 | 199 |
| 2 @ | 4923.908 | 40.24 | -13.76 | 54.00 | 35.14 | 33.58 | 35.20 | 6.73 | AVERAGE | HORIZONTAL | 246 | 199 |

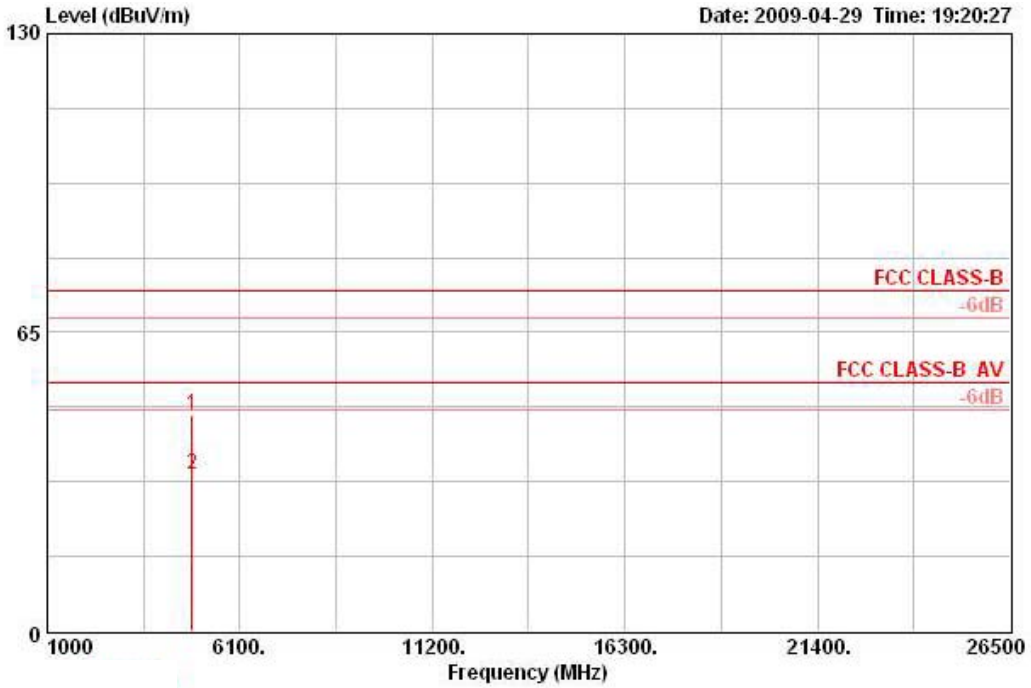
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 4923.860 | 56.42 | -17.58 | 74.00 | 51.32 | 33.58 | 35.20 | 6.73 | PEAK | VERTICAL | 271 | 126 |
| 2 @ | 4923.928 | 52.77 | -1.23 | 54.00 | 47.66 | 33.58 | 35.20 | 6.73 | AVERAGE | VERTICAL | 271 | 126 |

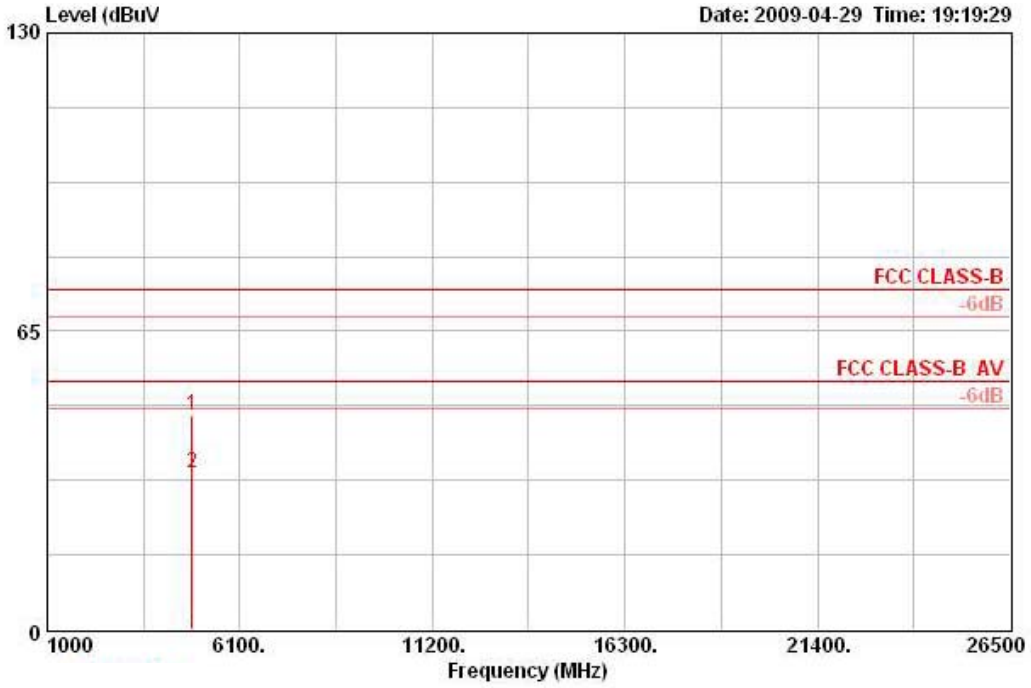
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 802.11g CH 1 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 | 4823.988 | 47.00 | -27.01 | 74.00 | 42.42 | 33.39 | 35.20 | 6.39 | PEAK | HORIZONTAL | 0 | 100 |
| 2 @ | 4823.996 | 33.93 | -20.07 | 54.00 | 29.35 | 33.39 | 35.20 | 6.39 | AVERAGE | HORIZONTAL | 0 | 8415 |

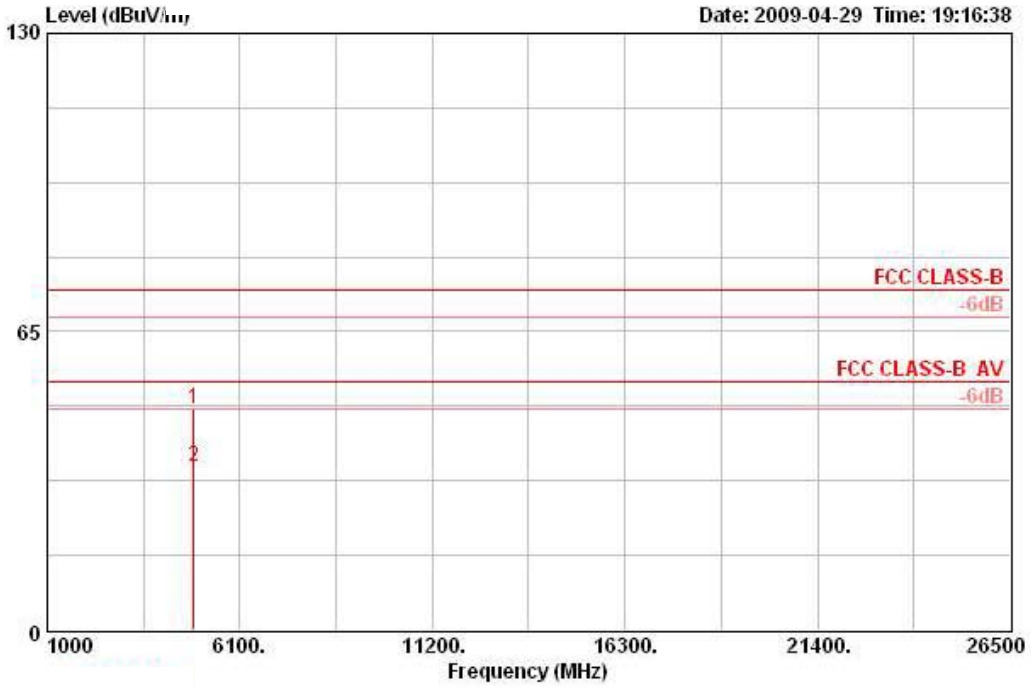
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 | 4823.987 | 46.85 | -27.15 | 74.00 | 42.27 | 33.39 | 35.20 | 6.39 | PEAK | VERTICAL | 360 | 100 |
| 2 @ | 4824.008 | 34.03 | -19.97 | 54.00 | 29.45 | 33.39 | 35.20 | 6.39 | AVERAGE | VERTICAL | 360 | 100 |

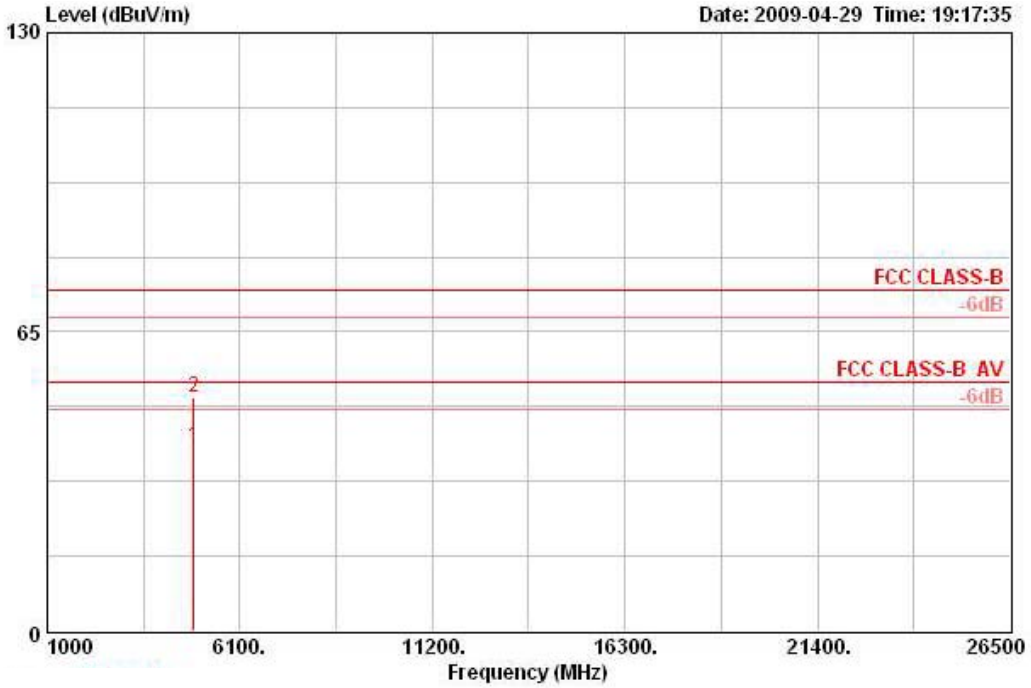
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 802.11g CH 6 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 | 4873.998 | 48.21 | -25.79 | 74.00 | 43.37 | 33.48 | 35.20 | 6.56 | PEAK | HORIZONTAL | 360 | 100 |
| 2 @ | 4874.015 | 35.69 | -18.31 | 54.00 | 30.85 | 33.48 | 35.20 | 6.56 | AVERAGE | HORIZONTAL | 360 | 100 |

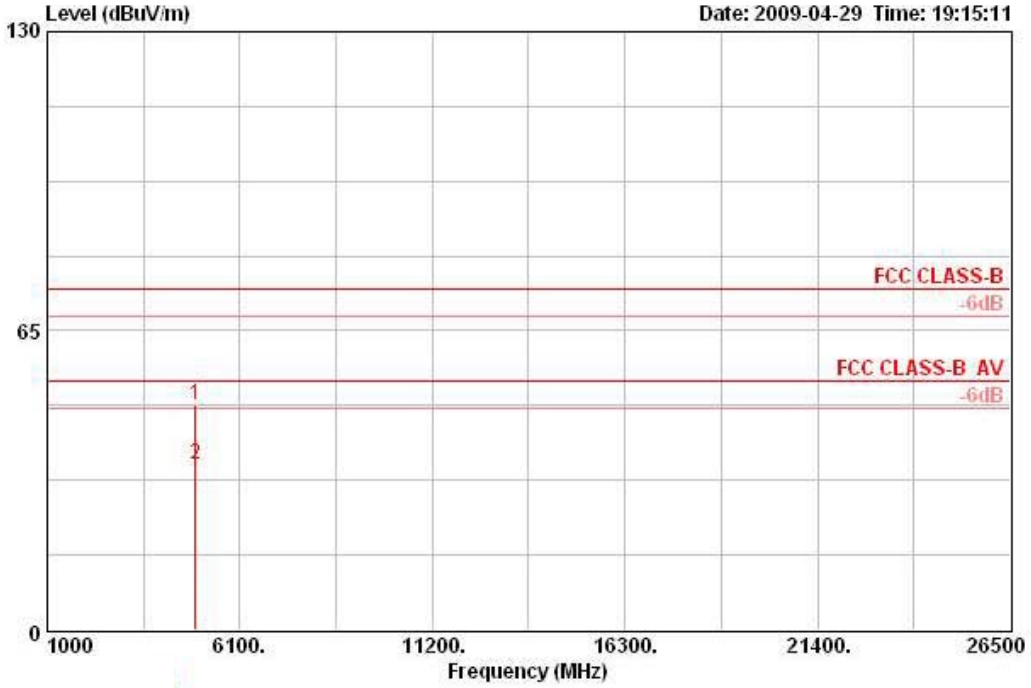
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 4874.021 | 39.89 | -14.11 | 54.00 | 35.04 | 33.48 | 35.20 | 6.56 | AVERAGE | VERTICAL | 0 | 100 |
| 2 | 4874.024 | 50.70 | -23.30 | 74.00 | 45.86 | 33.48 | 35.20 | 6.56 | PEAK | VERTICAL | 0 | 100 |

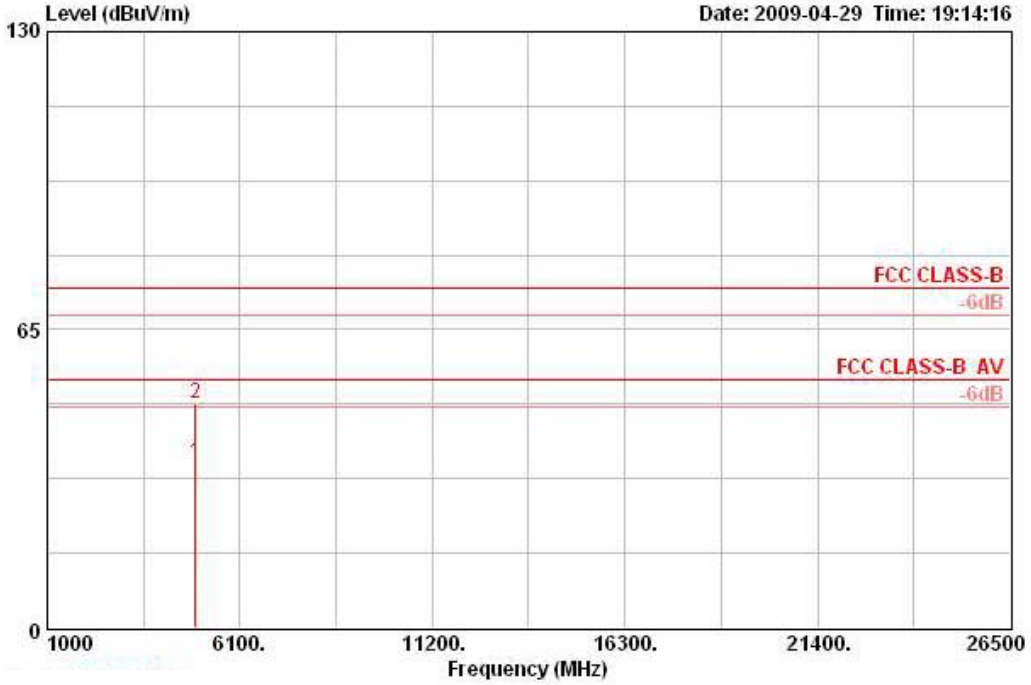
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 802.11g CH 11 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 | 4923.983 | 49.03 | -24.97 | 74.00 | 43.92 | 33.58 | 35.20 | 6.73 | PEAK | HORIZONTAL | 0 | 100 |
| 2 @ | 4923.986 | 35.76 | -18.24 | 54.00 | 30.66 | 33.58 | 35.20 | 6.73 | AVERAGE | HORIZONTAL | 0 | 100 |

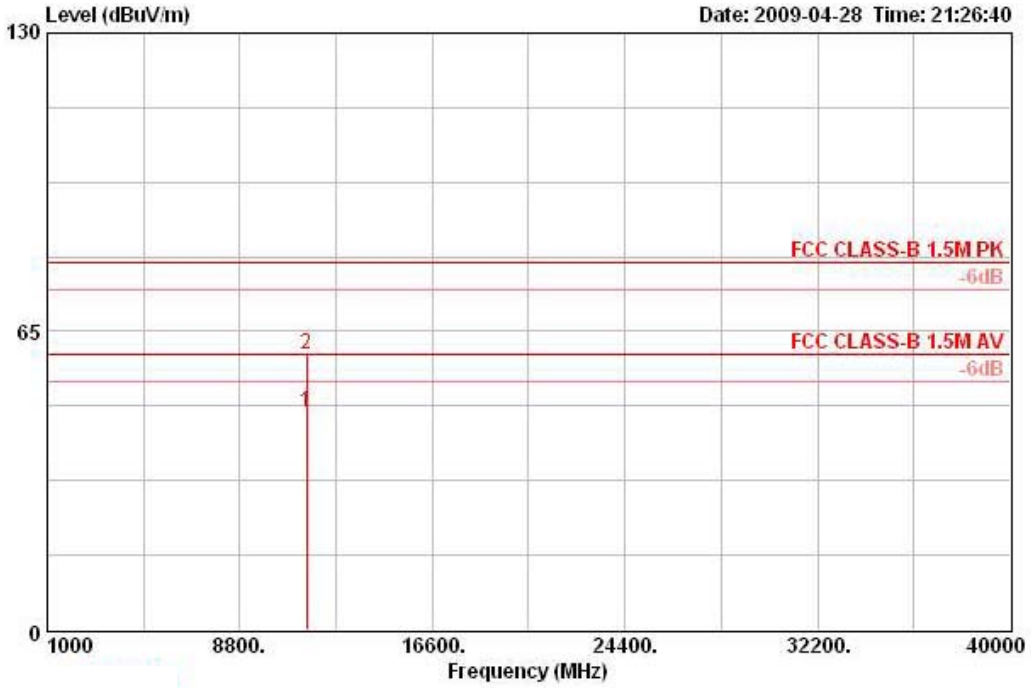
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 4923.979 | 36.10 | -17.90 | 54.00 | 30.99 | 33.58 | 35.20 | 6.73 | AVERAGE | VERTICAL | 360 | 100 |
| 2 | 4924.006 | 48.91 | -25.09 | 74.00 | 43.80 | 33.58 | 35.20 | 6.73 | PEAK | VERTICAL | 360 | 100 |

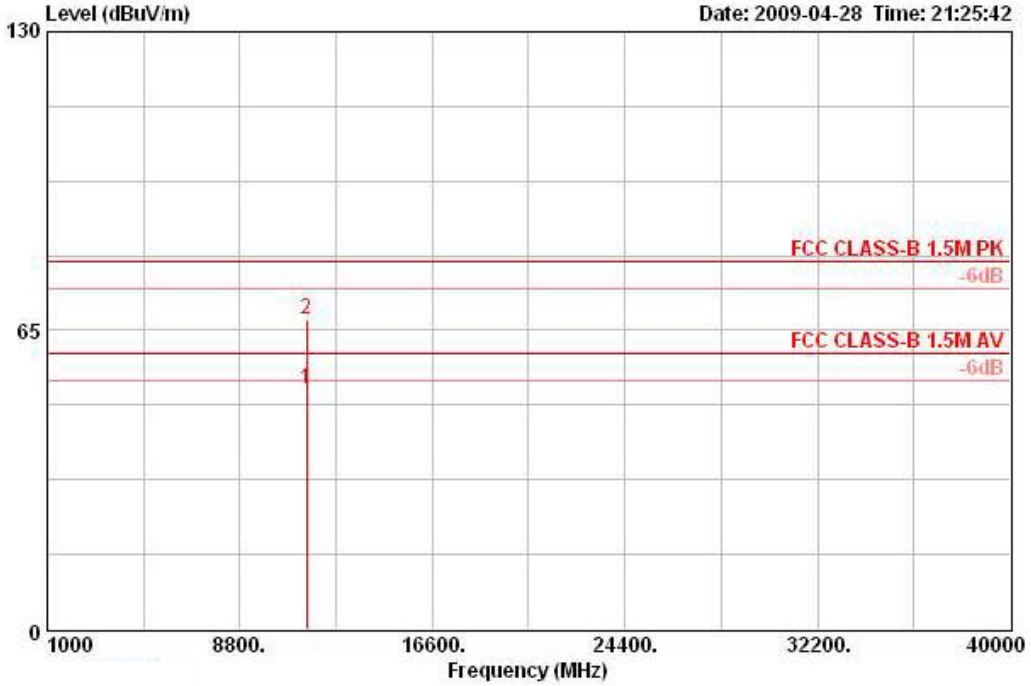
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 802.11a CH 149 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11489.980 | 47.31 | -12.69 | 60.00 | 32.00 | 39.50 | 35.09 | 10.90 | AVERAGE | HORIZONTAL | 0 | 100 |
| 2 @ | 11489.980 | 59.97 | -20.03 | 80.00 | 44.66 | 39.50 | 35.09 | 10.90 | PEAK | HORIZONTAL | 0 | 100 |

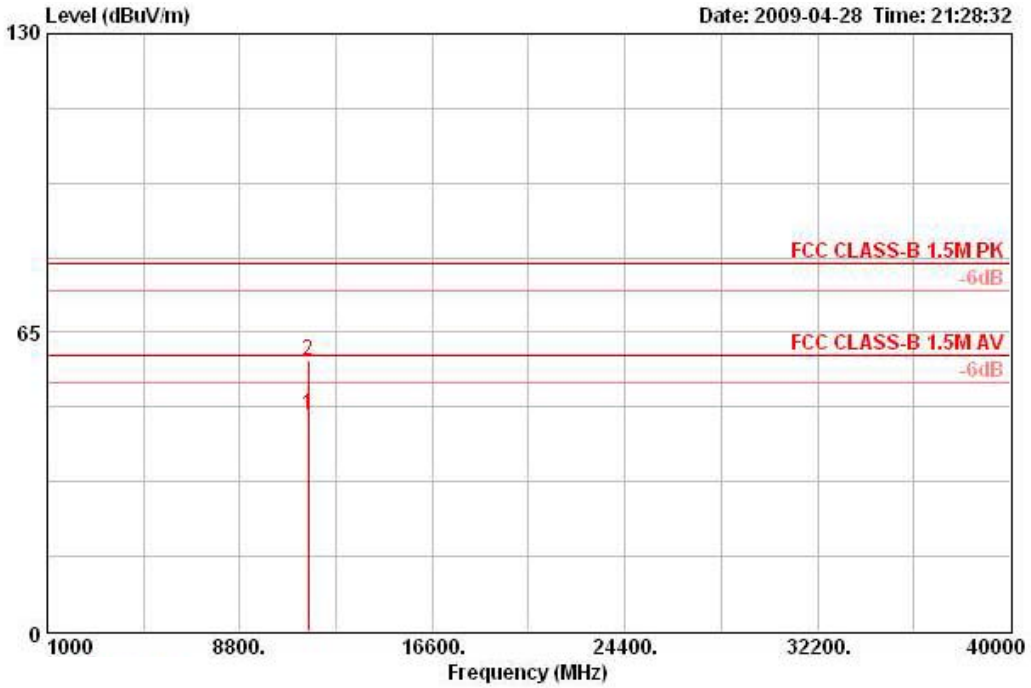
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11490.010 | 52.35 | -7.65 | 60.00 | 37.04 | 39.50 | 35.09 | 10.90 | AVERAGE | VERTICAL | 263 | 100 |
| 2 @ | 11490.020 | 67.28 | -12.72 | 80.00 | 51.97 | 39.50 | 35.09 | 10.90 | PEAK | VERTICAL | 263 | 100 |

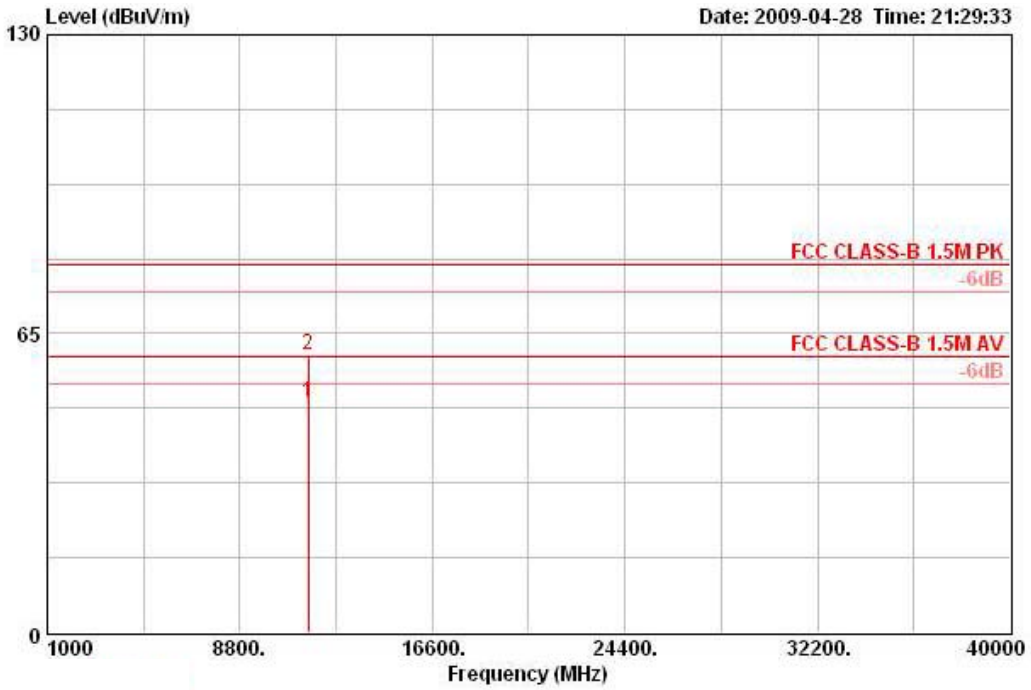
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 802.11a CH 157 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11569.990 | 46.91 | -13.09 | 60.00 | 31.69 | 39.47 | 35.09 | 10.83 | AVERAGE | HORIZONTAL | 360 | 100 |
| 2 @ | 11570.000 | 58.81 | -21.19 | 80.00 | 43.60 | 39.47 | 35.09 | 10.83 | PEAK | HORIZONTAL | 360 | 100 |

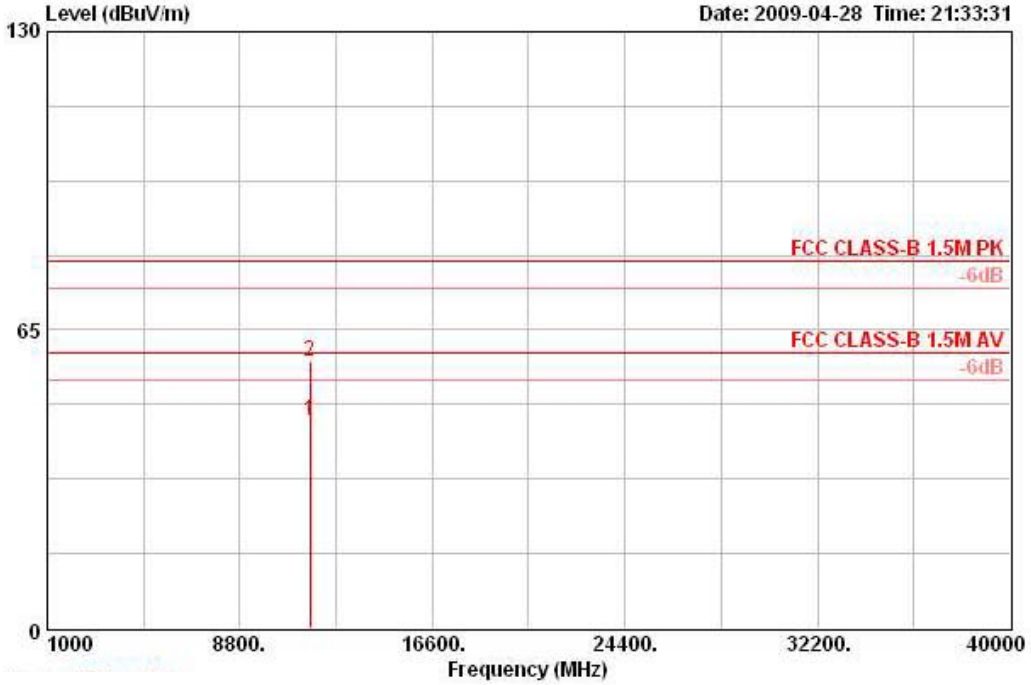
*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11569.980 | 50.17 | -9.83 | 60.00 | 34.95 | 39.47 | 35.09 | 10.83 | AVERAGE | VERTICAL | 0 | 100 |
| 2 @ | 11570.020 | 60.36 | -19.64 | 80.00 | 45.14 | 39.47 | 35.09 | 10.83 | PEAK | VERTICAL | 0 | 100 |

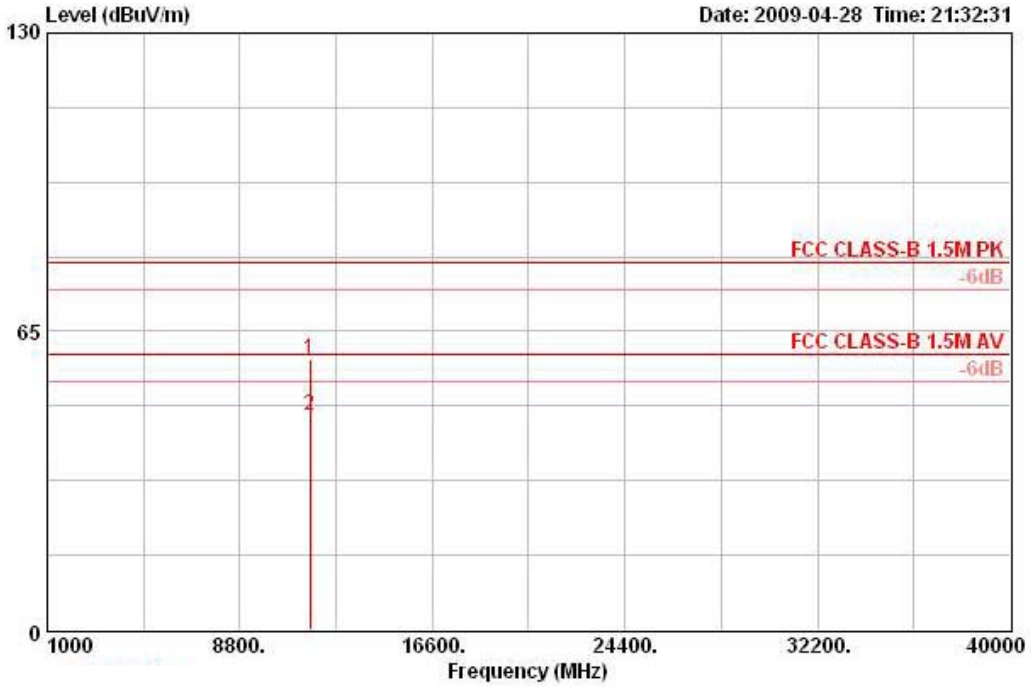
| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 802.11a CH 165 / Ant. A + Ant. B |

*Horizontal*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11649.980 | 45.31 | -14.69 | 60.00 | 30.22 | 39.44 | 35.07 | 10.72 | AVERAGE | HORIZONTAL | 0 | 100 |
| 2 @ | 11650.010 | 58.18 | -21.82 | 80.00 | 43.08 | 39.44 | 35.07 | 10.72 | PEAK | HORIZONTAL | 0 | 100 |

*Vertical*




| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 11650.010 | 58.78 | -21.22 | 80.00 | 43.68 | 39.44 | 35.07 | 10.72 | PEAK | VERTICAL | 360 | 100 |
| 2 @ | 11650.010 | 46.74 | -13.26 | 60.00 | 31.64 | 39.44 | 35.07 | 10.72 | AVERAGE | VERTICAL | 360 | 100 |

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

## 4.6. Band Edge Emissions Measurement

### 4.6.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|---|---|---|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

### 4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Span Frequency | 100 MHz |
| RB / VB (Emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average |
| RB / VB (Emission in non-restricted band) | 100 KHz /100 KHz for Peak |

### 4.6.3. Test Procedures

1. The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

### 4.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

### 4.6.5. Test Deviation

There is no deviation with the original standard.

### 4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 4.6.7. Test Result of Band Edge and Fundamental Emissions

| Temperature | 25.6℃ | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | Draft n MCS0 20MHz Ch 1, 6, 11 / Ant. A + Ant. B |
| Test date | Apr. 29, 2009 | | |

**Channel 1**

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2389.000 | 71.84 | -2.16 | 74.00 | 40.93 | 28.05 | 0.00 | 2.86 | PEAK | VERTICAL | 145 | 100 |
| 2 @ | 2390.000 | 53.68 | -0.32 | 54.00 | 22.75 | 28.05 | 0.00 | 2.88 | AVERAGE | VERTICAL | 145 | 100 |
| 3 @ | 2409.200 | 113.44 | | | 82.47 | 28.09 | 0.00 | 2.88 | PEAK | VERTICAL | 145 | 100 |
| 4 @ | 2410.400 | 101.46 | | | 70.48 | 28.09 | 0.00 | 2.88 | AVERAGE | VERTICAL | 145 | 100 |

Item 3, 4 are the fundamental frequency at 2412 MHz

**Channel 6**

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | | | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2389.200 | 70.39 | -3.61 | 74.00 | 39.47 | 28.05 | 0.00 | 2.86 | PEAK | VERTICAL | 88 | 100 |
| 2 @ | 2390.000 | 52.92 | -1.08 | 54.00 | 21.99 | 28.05 | 0.00 | 2.88 | AVERAGE | VERTICAL | 88 | 100 |
| 3 @ | 2431.000 | 120.65 | | | 89.62 | 28.13 | 0.00 | 2.90 | PEAK | VERTICAL | 88 | 100 |
| 4 @ | 2438.200 | 108.64 | | | 77.57 | 28.18 | 0.00 | 2.90 | AVERAGE | VERTICAL | 88 | 100 |
| 5 @ | 2483.500 | 52.08 | -1.92 | 54.00 | 20.90 | 28.26 | 0.00 | 2.93 | AVERAGE | VERTICAL | 88 | 100 |
| 6 @ | 2483.700 | 69.48 | -4.52 | 74.00 | 38.29 | 28.26 | 0.00 | 2.93 | PEAK | VERTICAL | 88 | 100 |

Item 3, 4 are the fundamental frequency at 2437MHz.

**Channel 11**

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2458.400 | 101.43 | | | 70.30 | 28.22 | 0.00 | 2.91 | AVERAGE | VERTICAL | 216 | 100 |
| 2 @ | 2461.000 | 113.22 | | | 82.09 | 28.22 | 0.00 | 2.91 | PEAK | VERTICAL | 216 | 100 |
| 3 | 2483.700 | 53.69 | -0.31 | 54.00 | 22.51 | 28.26 | 0.00 | 2.93 | AVERAGE | VERTICAL | 216 | 100 |
| 4 @ | 2483.900 | 71.55 | -2.45 | 74.00 | 40.36 | 28.26 | 0.00 | 2.93 | PEAK | VERTICAL | 216 | 100 |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | Draft n MCS0 40MHz Ch 3, 6, 9 / Ant. A + Ant. B |
| Test date | Apr. 29, 2009 | | |

**Channel 3**

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2388.400 | 71.25 | -2.75 | 74.00 | 40.33 | 28.05 | 0.00 | 2.86 | PEAK | VERTICAL | 213 | 100 |
| 2 @ | 2390.000 | 53.73 | -0.27 | 54.00 | 22.80 | 28.05 | 0.00 | 2.88 | AVERAGE | VERTICAL | 213 | 100 |
| 3 @ | 2413.600 | 106.39 | | | 75.42 | 28.09 | 0.00 | 2.88 | PEAK | VERTICAL | 213 | 100 |
| 4 @ | 2429.600 | 93.83 | | | 62.80 | 28.13 | 0.00 | 2.90 | AVERAGE | VERTICAL | 213 | 100 |

Item 3, 4 are the fundamental frequency at 2422 MHz.

**Channel 6**

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2389.600 | 53.38 | -0.62 | 54.00 | 22.46 | 28.05 | 0.00 | 2.86 | AVERAGE | VERTICAL | 211 | 100 |
| 2 @ | 2390.000 | 71.59 | -2.41 | 74.00 | 40.66 | 28.05 | 0.00 | 2.88 | PEAK | VERTICAL | 211 | 100 |
| 3 @ | 2431.800 | 97.20 | | | 66.17 | 28.13 | 0.00 | 2.90 | AVERAGE | VERTICAL | 211 | 100 |
| 4 | 2439.800 | 111.10 | | | 80.03 | 28.18 | 0.00 | 2.90 | PEAK | VERTICAL | 211 | 100 |
| 5 @ | 2483.500 | 50.21 | -3.79 | 54.00 | 19.03 | 28.26 | 0.00 | 2.93 | AVERAGE | VERTICAL | 211 | 100 |
| 6 @ | 2483.500 | 70.56 | -3.44 | 74.00 | 39.38 | 28.26 | 0.00 | 2.93 | PEAK | VERTICAL | 211 | 100 |

Item 3, 4 are the fundamental frequency at 2437MHz.

**Channel 9**

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2460.000 | 106.36 | | | 75.23 | 28.22 | 0.00 | 2.91 | PEAK | VERTICAL | 217 | 100 |
| 2 @ | 2460.800 | 94.08 | | | 62.96 | 28.22 | 0.00 | 2.91 | AVERAGE | VERTICAL | 217 | 100 |
| 3 @ | 2483.500 | 53.65 | -0.35 | 54.00 | 22.47 | 28.26 | 0.00 | 2.93 | AVERAGE | VERTICAL | 217 | 100 |
| 4 @ | 2483.500 | 72.17 | -1.83 | 74.00 | 40.98 | 28.26 | 0.00 | 2.93 | PEAK | VERTICAL | 217 | 100 |

Item 1, 2 are the fundamental frequency at 2452 MHz.

| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 802.11b CH 1, 6, 11 / Ant. A + Ant. B |
| Test Date | Apr. 29, 2009 | | |

**Channel 1**

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2385.400 | 52.39 | -1.61 | 54.00 | 21.52 | 28.01 | 0.00 | 2.86 | AVERAGE | VERTICAL | 321 | 100 |
| 2 @ | 2386.400 | 60.66 | -13.34 | 74.00 | 29.74 | 28.05 | 0.00 | 2.86 | PEAK | VERTICAL | 321 | 100 |
| 3 @ | 2413.600 | 108.73 | | | 77.76 | 28.09 | 0.00 | 2.88 | PEAK | VERTICAL | 321 | 100 |
| 4 @ | 2414.800 | 105.21 | | | 74.24 | 28.09 | 0.00 | 2.88 | AVERAGE | VERTICAL | 321 | 100 |

Item 3, 4 are the fundamental frequency at 2412 MHz.

**Channel 6**

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2387.400 | 56.31 | -17.69 | 74.00 | 25.39 | 28.05 | 0.00 | 2.86 | PEAK | VERTICAL | 86 | 100 |
| 2 @ | 2388.800 | 46.05 | -7.95 | 54.00 | 15.14 | 28.05 | 0.00 | 2.86 | AVERAGE | VERTICAL | 86 | 100 |
| 3 @ | 2438.000 | 112.58 | | | 81.51 | 28.18 | 0.00 | 2.90 | PEAK | VERTICAL | 86 | 100 |
| 4 @ | 2439.800 | 108.51 | | | 77.44 | 28.18 | 0.00 | 2.90 | AVERAGE | VERTICAL | 86 | 100 |
| 5 @ | 2484.700 | 46.96 | -7.04 | 54.00 | 15.77 | 28.26 | 0.00 | 2.93 | AVERAGE | VERTICAL | 86 | 100 |
| 6 @ | 2485.300 | 56.91 | -17.09 | 74.00 | 25.72 | 28.26 | 0.00 | 2.93 | PEAK | VERTICAL | 86 | 100 |

Item 3, 4 are the fundamental frequency at 2437 MHz.

**Channel 11**

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2462.800 | 106.33 | | | 75.20 | 28.22 | 0.00 | 2.91 | AVERAGE | VERTICAL | 152 | 100 |
| 2 @ | 2463.200 | 110.30 | | | 79.17 | 28.22 | 0.00 | 2.91 | PEAK | VERTICAL | 152 | 100 |
| 3 | 2487.500 | 53.54 | -0.46 | 54.00 | 22.31 | 28.30 | 0.00 | 2.93 | AVERAGE | VERTICAL | 152 | 100 |
| 4 @ | 2487.500 | 61.66 | -12.34 | 74.00 | 30.44 | 28.30 | 0.00 | 2.93 | PEAK | VERTICAL | 152 | 100 |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 25.6°C | Humidity | 56% |
|---|---|---|---|
| Test Engineer | Allen Liu | Configurations | 802.11g CH 1, 6, 11/ Ant. A + Ant. B |
| Test Date | Apr. 29, 2009 | | |

Channel 1

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2389.400 | 72.19 | -1.81 | 74.00 | 41.27 | 28.05 | 0.00 | 2.86 | PEAK | VERTICAL | 91 | 100 |
| 2 @ | 2390.000 | 53.43 | -0.57 | 54.00 | 22.50 | 28.05 | 0.00 | 2.88 | AVERAGE | VERTICAL | 91 | 100 |
| 3 @ | 2405.400 | 113.48 | | | 82.51 | 28.09 | 0.00 | 2.88 | PEAK | VERTICAL | 91 | 100 |
| 4 @ | 2410.600 | 101.37 | | | 70.39 | 28.09 | 0.00 | 2.88 | AVERAGE | VERTICAL | 91 | 100 |

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2390.000 | 53.75 | -0.25 | 54.00 | 22.82 | 28.05 | 0.00 | 2.88 | AVERAGE | VERTICAL | 89 | 100 |
| 2 @ | 2390.000 | 72.16 | -1.84 | 74.00 | 41.23 | 28.05 | 0.00 | 2.88 | PEAK | VERTICAL | 89 | 100 |
| 3 @ | 2432.800 | 109.57 | | | 78.54 | 28.13 | 0.00 | 2.90 | AVERAGE | VERTICAL | 89 | 100 |
| 4 @ | 2438.200 | 121.32 | | | 90.25 | 28.18 | 0.00 | 2.90 | PEAK | VERTICAL | 89 | 100 |
| 5 @ | 2483.500 | 51.08 | -2.92 | 54.00 | 19.89 | 28.26 | 0.00 | 2.93 | AVERAGE | VERTICAL | 89 | 100 |
| 6 @ | 2485.100 | 67.04 | -6.96 | 74.00 | 35.86 | 28.26 | 0.00 | 2.93 | PEAK | VERTICAL | 89 | 100 |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

| | Freq | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Preamp Factor | Cable Loss | Remark | Pol/Phase | Table Pos | Ant Pos |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | | deg | cm |
| 1 @ | 2457.800 | 113.46 | | | 82.33 | 28.22 | 0.00 | 2.91 | PEAK | VERTICAL | 88 | 100 |
| 2 @ | 2463.200 | 102.90 | | | 71.78 | 28.22 | 0.00 | 2.91 | AVERAGE | VERTICAL | 88 | 100 |
| 3 @ | 2483.700 | 67.82 | -6.18 | 74.00 | 36.63 | 28.26 | 0.00 | 2.93 | PEAK | VERTICAL | 88 | 100 |
| 4 @ | 2483.900 | 51.77 | -2.23 | 54.00 | 20.58 | 28.26 | 0.00 | 2.93 | AVERAGE | VERTICAL | 88 | 100 |

Item 1, 2 are the fundamental frequency at 2462 MHz.

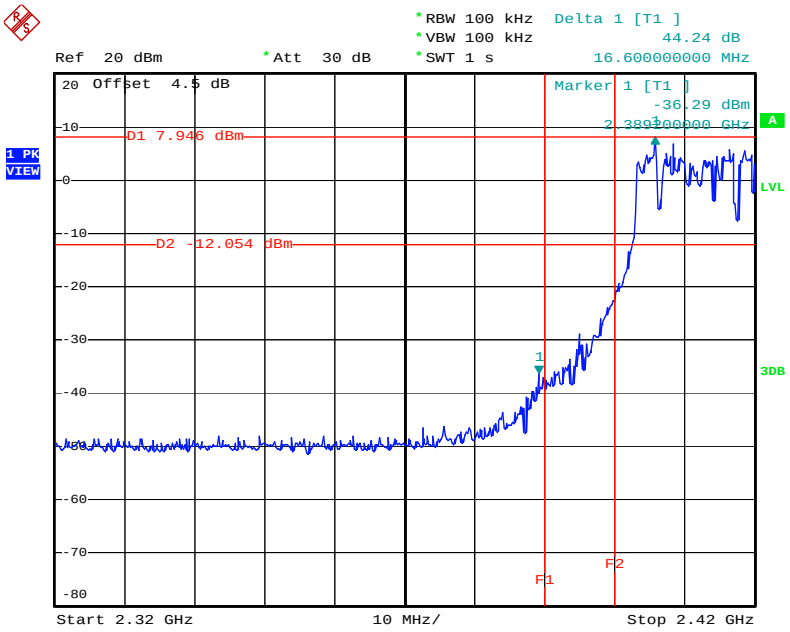
Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

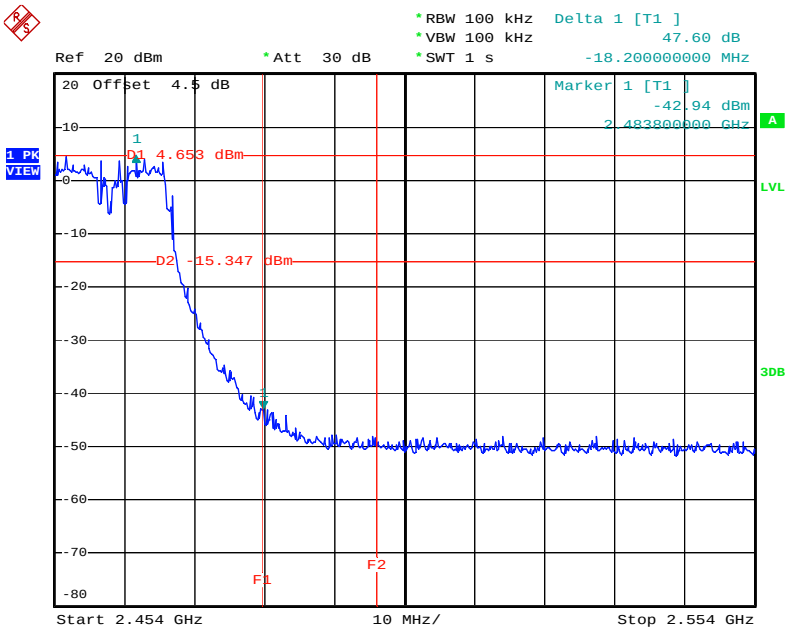
## For Emission not in Restricted Band

### Low Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. A + Ant. B / 2412 MHz



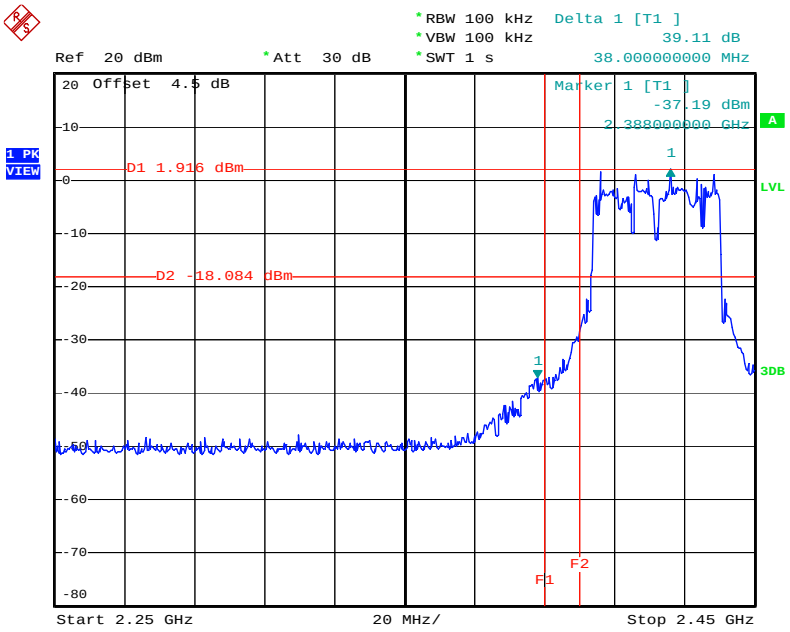

Date: 26.MAR.2009 12:33:31

### High Band Edge Plot on Configuration Draft n MCS0 20MHz Ant. A + Ant. B / 2462 MHz



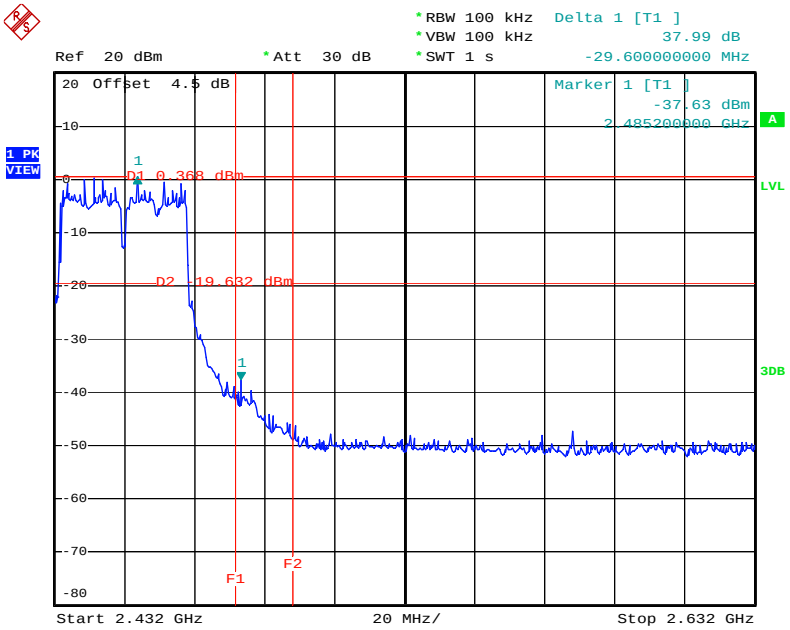

Date: 26.MAR.2009 12:35:18

## Low Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. A + Ant. B / 2422 MHz



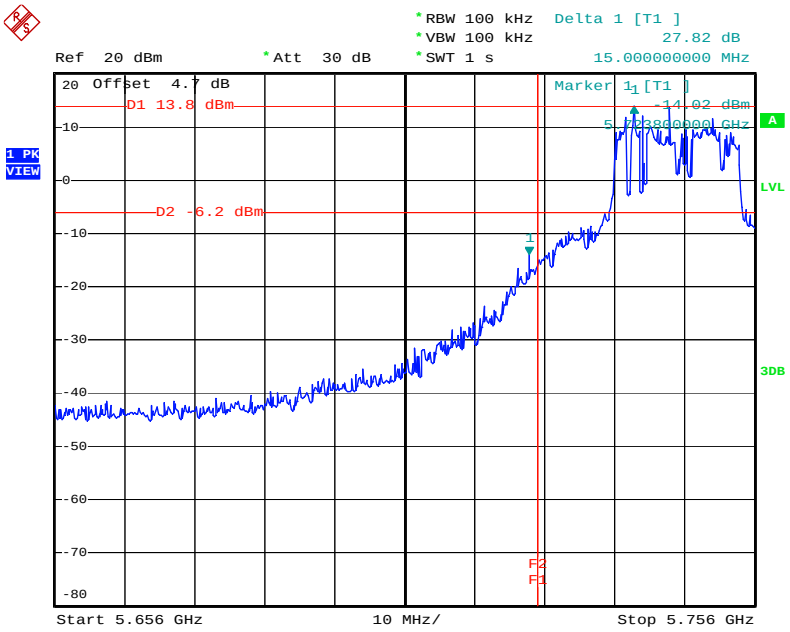

Date: 26.MAR.2009 12:41:21

## High Band Edge Plot on Configuration Draft n MCS0 40MHz Ant. A + Ant. B / 2452 MHz



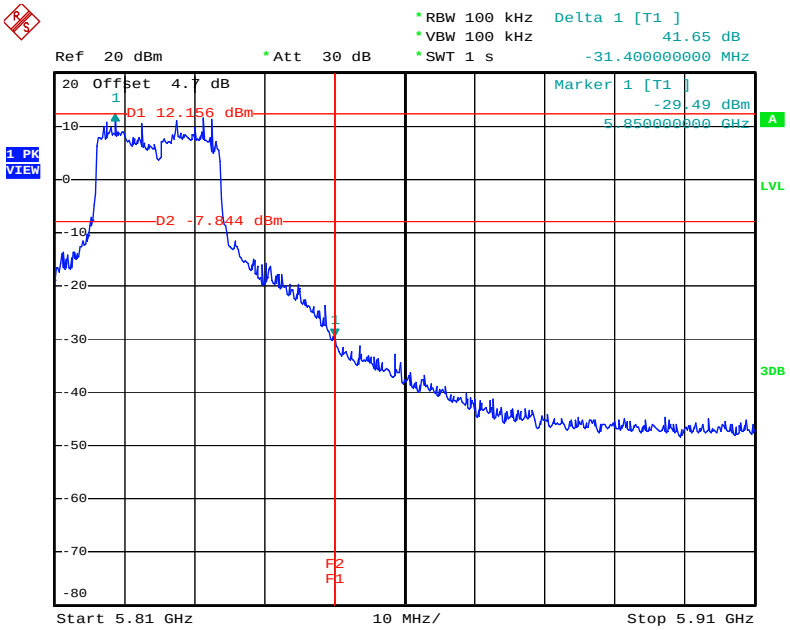

Date: 26.MAR.2009 13:00:25

## Low Band Edge Plot on Configuration 11a Draft n MCS0 20MHz Ant. A + Ant. B / 5745 MHz



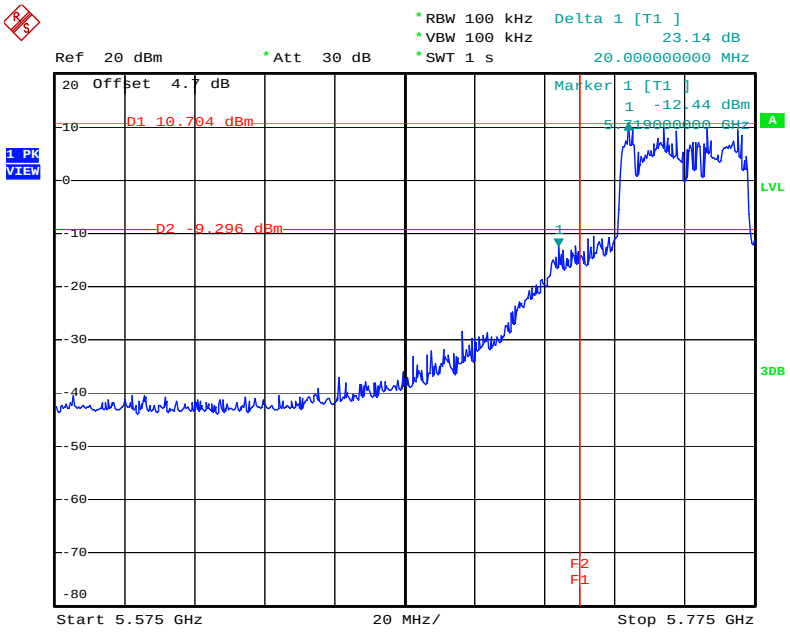

Date: 26.MAR.2009 12:26:28

## High Band Edge Plot on Configuration 11a Draft n MCS0 20MHz Ant. A + Ant. B / 5825 MHz



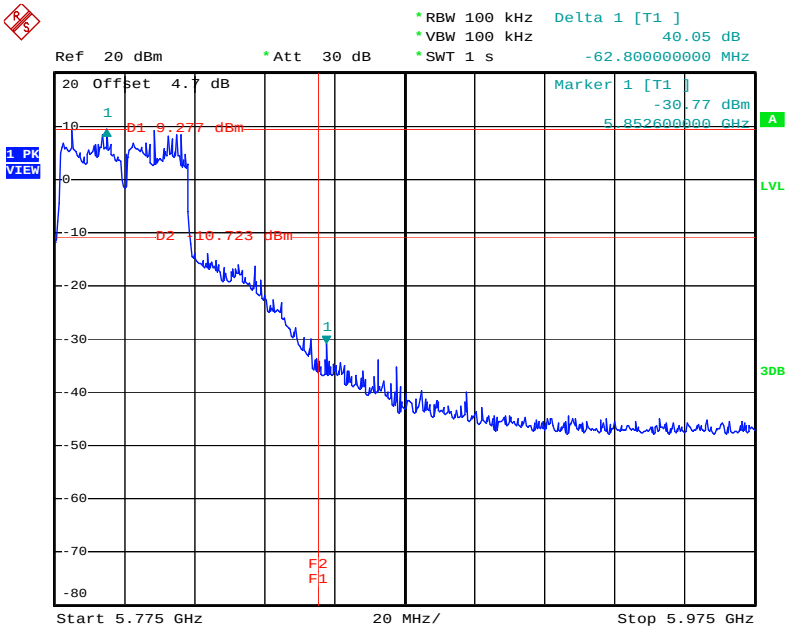

Date: 26.MAR.2009 12:30:53

## Low Band Edge Plot on Configuration 11a Draft n MCS0 40MHz Ant. A + Ant. B / 5755 MHz




Date: 26.MAR.2009 13:38:58

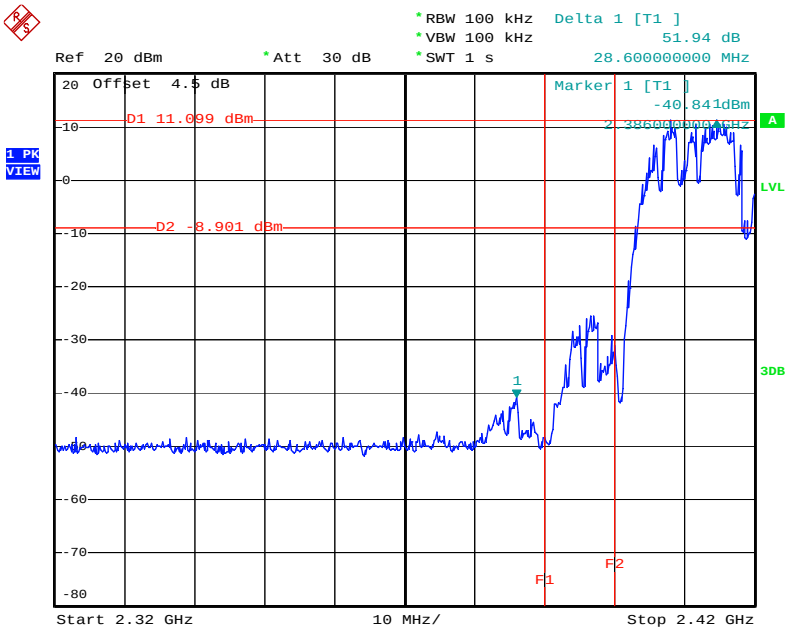
## High Band Edge Plot on Configuration 11a Draft n MCS0 40MHz Ant. A + Ant. B / 5795 MHz




Date: 26.MAR.2009 13:40:56

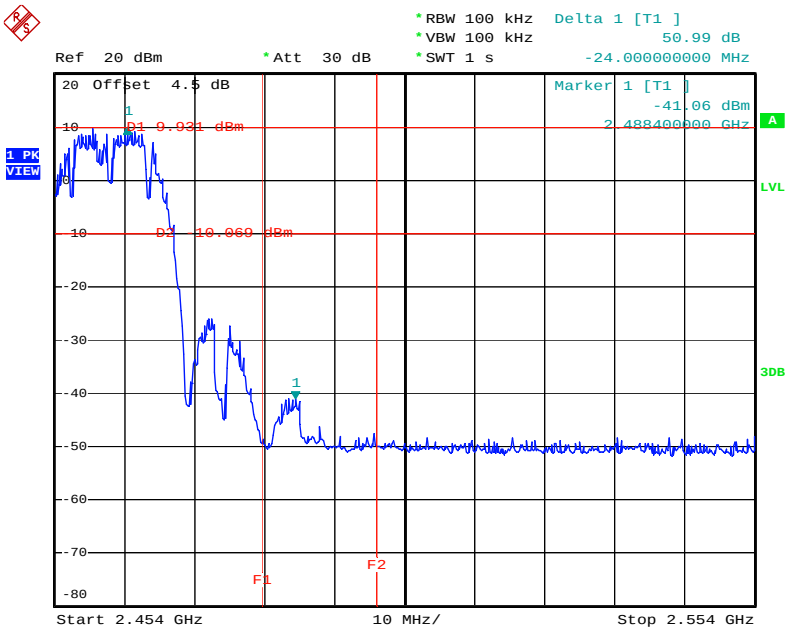
## For Emission not in Restricted Band

### Low Band Edge Plot on Configuration IEEE 802.11b Ant. A + Ant. B / 2412 MHz



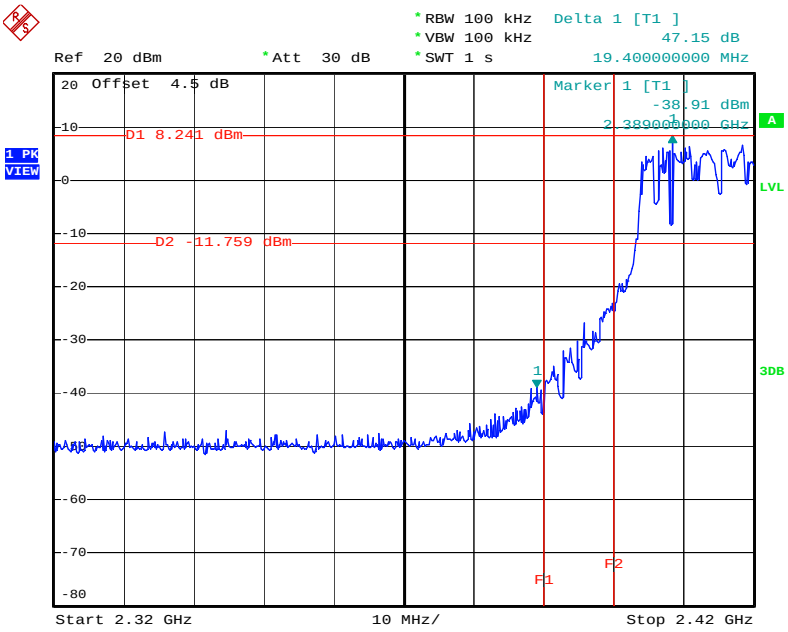

Date: 26.MAR.2009 12:02:38

### High Band Edge Plot on Configuration IEEE 802.11b Ant. A + Ant. B / 2462 MHz



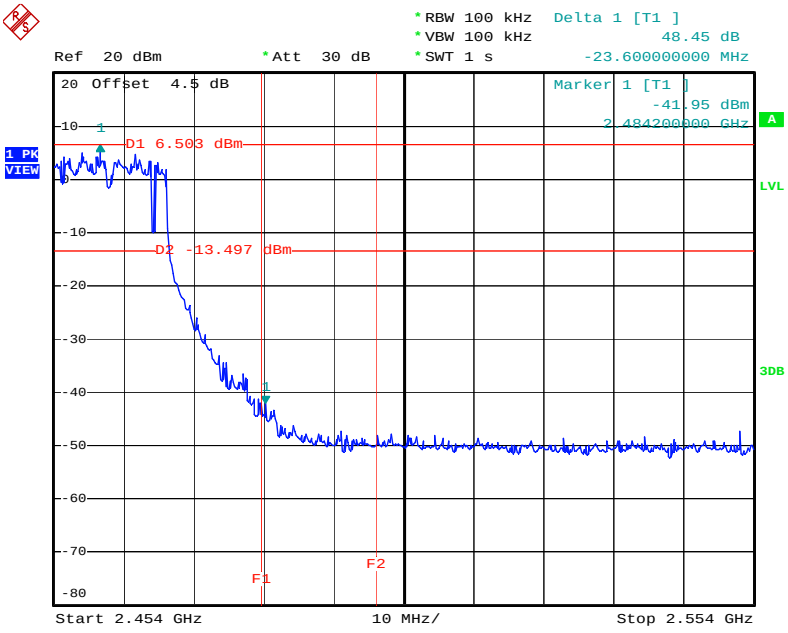

Date: 26.MAR.2009 12:05:28

## Low Band Edge Plot on Configuration IEEE 802.11g Ant. A + Ant. B / 2412 MHz



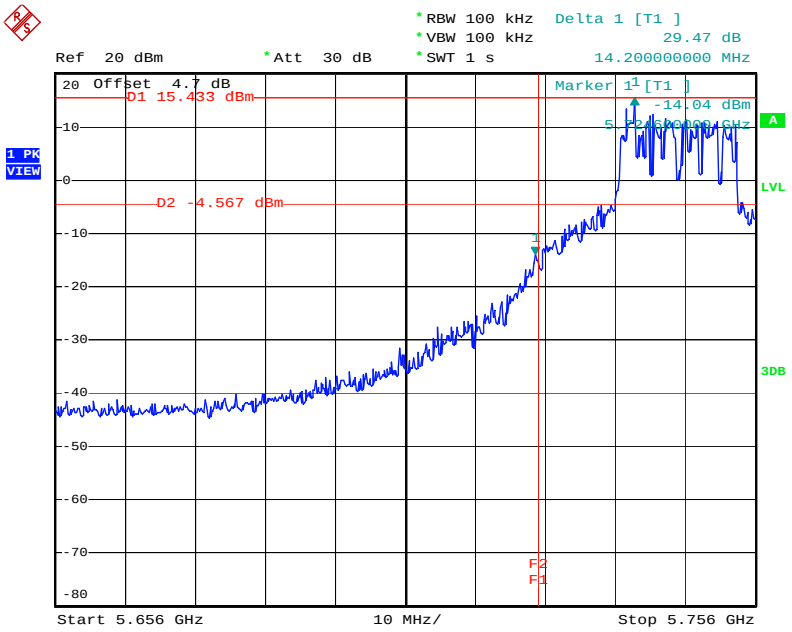

Date: 26.MAR.2009 12:07:02

## High Band Edge Plot on Configuration IEEE 802.11g Ant. A + Ant. B / 2462 MHz



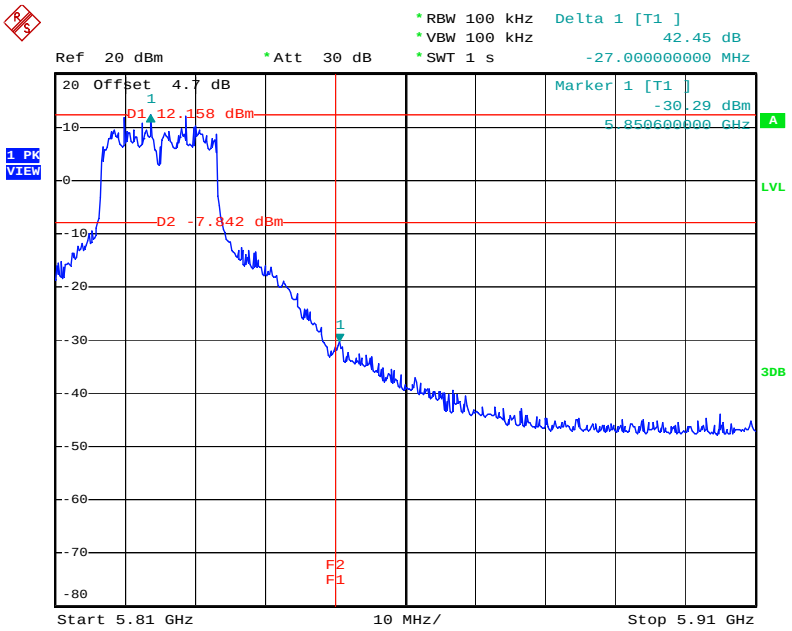

Date: 26.MAR.2009 12:08:59

## Low Band Edge Plot on Configuration IEEE 802.11a Ant. A + Ant. B / 5745 MHz




Date: 26.MAR.2009 14:03:13

## High Band Edge Plot on Configuration IEEE 802.11a Ant. A + Ant. B / 5825 MHz




Date: 26.MAR.2009 13:48:13

## 4.7. Antenna Requirements

### 4.7.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

### 4.7.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

# 5. LIST OF MEASURING EQUIPMENTS

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|---|---|---|---|---|---|---|
| EMC Receiver | R&S | ESCS 30 | 100174 | 9kHz – 2.75GHz | Apr. 15, 2009 | Conduction (CO04-HY) |
| LISN | MessTec | NNB-2/16Z | 99079 | 9kHz – 30MHz | Mar. 23, 2009 | Conduction (CO04-HY) |
| LISN (Support Unit) | EMCO | 3810/2NM | 9703-1839 | 9kHz – 30MHz | Mar. 22, 2009 | Conduction (CO04-HY) |
| RF Cable-CON | UTIFLEX | 3102-26886-4 | CB049 | 9kHz – 30MHz | Apr. 20, 2008 | Conduction (CO04-HY) |
| ISN | SCHAFFNER | ISN T400 | 21653 | 9kHz –30MHz | Jun 13, 2008 | Conduction (CO04-HY) |
| EMI Filter | LINDGREN | LRE-2030 | 2651 | < 450 Hz | N/A | Conduction (CO04-HY) |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH03-HY | 30 MHz - 1 GHz 3m | Jun. 14, 2008 | Radiation (03CH03-HY) |
| Amplifier | SCHAFFNER | COA9231A | 18667 | 9 kHz - 2 GHz | Jan. 23, 2009 | Radiation (03CH03-HY) |
| Amplifier | Agilent | 8449B | 3008A02120 | 1 GHz - 26.5 GHz | Jul. 21, 2008 | Radiation (03CH03-HY) |
| Amplifier | MITEQ | AMF-6F-260400 | 9121372 | 26.5 GHz - 40 GHz | Apr. 06, 2009* | Radiation (03CH03-HY) |
| Spectrum Analyzer | R&S | FSP30 | 100023 | 9 kHz - 30 GHz | Feb 02, 2009 | Radiation (03CH03-HY) |
| Loop Antenna | R&S | HFH2-Z2 | 860004/001 | 9 kHz - 30 MHz | Jul 28, 2008* | Radiation (03CH03-HY) |
| Bilog Antenna | SCHAFFNER | CBL 6112D | 22237 | 30 MHz – 1 GHz | Jul. 12, 2008 | Radiation (03CH03-HY) |
| Horn Antenna | EMCO | 3115 | 6741 | 1GHz ~ 18GHz | Apr. 29, 2008 | Radiation (03CH03-HY) |
| Horn Antenna | SCHWARZBECK | BBHA9170 | BBHA9170154 | 15 GHz - 40 GHz | Jan.16, 2009 | Radiation (03CH03-HY) |
| RF Cable-R03m | Jye Bao | RG142 | CB021 | 30 MHz - 1 GHz | Jan. 05, 2009 | Radiation (03CH03-HY) |
| RF Cable-HIGH | SUHNER | SUCOFLEX 106 | 03CH03-HY | 1 GHz - 40 GHz | Jan. 05, 2009 | Radiation (03CH03-HY) |
| Turn Table | HD | DS 420 | 420/650/00 | 0 – 360 degree | N/A | Radiation (03CH03-HY) |
| Antenna Mast | HD | MA 240 | 240/560/00 | 1 m - 4 m | N/A | Radiation (03CH03-HY) |
| Spectrum Analyzer | R&S | FSP30 | 100023 | 9kHz ~ 30GHz | Jan. 09, 2009 | Conducted (TH01-HY) |
| Power Meter | R&S | NRVS | 100444 | DC ~ 40GHz | Jul. 11, 2008 | Conducted (TH01-HY) |
| Power Sensor | R&S | NRV-Z51 | 100458 | DC ~ 30GHz | Jul. 11, 2008 | Conducted (TH01-HY) |
| Power Sensor | R&S | NRV-Z32 | 100057 | 30MHz ~ 6GHz | Jul. 11, 2008 | Conducted (TH01-HY) |
| AC Power Source | HPC | HPA-500W | HPA-9100024 | AC 0 ~ 300V | May 30, 2008* | Conducted (TH01-HY) |
| DC Power Source | G.W. | GPC-6030D | C671845 | DC 1V ~ 60V | Mar. 13, 2009 | Conducted (TH01-HY) |
| Temp. and Humidity Chamber | Giant Force | GTH-225-20-S | MAB0103-001 | N/A | Jul. 18, 2008 | Conducted (TH01-HY) |
| RF CABLE-1m | Jye Bao | RG142 | CB034-1m | 20MHz ~ 7GHz | Dec. 01, 2008 | Conducted (TH01-HY) |
| RF CABLE-2m | Jye Bao | RG142 | CB035-2m | 20MHz ~ 1GHz | Dec. 01, 2008 | Conducted (TH01-HY) |

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|---|---|---|---|---|---|---|
| Vector Signal Generator | R&S | SMU200A | 102098 | 100kHz ~ 6GHz | Dec. 14, 2008 | Conducted (TH01-HY) |
| Signal Generator | R&S | SMR40 | 100116 | 10MHz ~ 40GHz | Mar. 10, 2009 | Conducted (TH01-HY) |
| Oscilloscope | Tektonix | TDS380 | B016197 | 400MHz/ 2GS/s | Jun. 27, 2008 | Conducted (TH01-HY) |

Note: Calibration Interval of instruments listed above is one year.

Note: *Calibration Interval of instruments listed above is two year.

# 6. TEST LOCATION

| | | | |
|---|---|---|---|
| SHIJR | ADD | : | 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. |
| | TEL | : | 886-2-2696-2468 |
| | FAX | : | 886-2-2696-2255 |
| HWA YA | ADD | : | No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. |
| | TEL | : | 886-3-327-3456 |
| | FAX | : | 886-3-318-0055 |
| LINKOU | ADD | : | No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C |
| | TEL | : | 886-2-2601-1640 |
| | FAX | : | 886-2-2601-1695 |
| DUNGHU | ADD | : | No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C. |
| | TEL | : | 886-2-2631-4739 |
| | FAX | : | 886-2-2631-9740 |
| JUNGHE | ADD | : | 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. |
| | TEL | : | 886-2-8227-2020 |
| | FAX | : | 886-2-8227-2626 |
| NEIHU | ADD | : | 4Fl., No. 339, Hsin Hu 2nd Rd., Taipei 114, Taiwan, R.O.C. |
| | TEL | : | 886-2-2794-8886 |
| | FAX | : | 886-2-2794-9777 |
| JHUBEI | ADD | : | No.8, Lane 728, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. |
| | TEL | : | 886-3-656-9065 |
| | FAX | : | 886-3-656-9085 |

# 7. TAF CERTIFICATE OF ACCREDITATION

Certificate No. : L1190-070110

財團法人全國認證基金會
Taiwan Accreditation Foundation

## Certificate of Accreditation

This is to certify that

**Sporton International Inc.**
**EMC & Wireless Communications Laboratory**
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

**is accredited in respect of laboratory**

| | | |
|---|---|---|
| **Accreditation Criteria** | : | ISO/IEC 17025:2005 |
| **Accreditation Number** | : | 1190 |
| **Originally Accredited** | : | December 15, 2003 |
| **Effective Period** | : | January 10, 2007 to January 09, 2010 |
| **Accredited Scope** | : | Testing Field, see described in the Appendix |
| **Specific Accreditation Program** | : | Accreditation Program for Designated Testing Laboratory for Commodities Inspection<br>Accreditation Program for Telecommunication Equipment Testing Laboratory |

Jay-San Chen
President, Taiwan Accreditation Foundation
Date : January 10, 2007

P1, total 9 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when used without the Appendix.