

RADIATED EMISSIONS



Test Report #: WC804860 Run 2 Test Area: LTS

EUT Model #: 0746 S+U focus AX w/zigbee Date: 6/27/2008

EUT Serial #: 7794 EUT Power: 14 VDC Temperature: 25.0 °C

Test Method: FCC 15.247 Air Pressure: 97.0 kPa

Customer: Hunt Technology Rel. Humidity: 56.0 %

EUT Description: S+U focus AX w/zigbee
Rev 5 PCB, ch 26 at -20 dBm pwr setting

Notes:

Data File Name: 4860.dat

Page: 1 of 5

List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC B >1GHz 3m ave	DELTA2 FCC B >1G 3 M peak
Average Readings are calculated by subtracting 11.37 dBuV from the Peak data.						
High channel						
No significant emissions detected in the vertical or horizontal polarization 1-18 GHz.						
Mid Channel.						
4.889 GHz	51.7 Pk	9.64 / 32.96 / 43.62 / 0.63	51.3	V / 1.14 / 10	n/a	-22.7
7.334 GHz	56.7 Pk	13.21 / 36.19 / 43.19 / 1.22	64.12	V / 1.00 / 231	n/a	-9.88
7.334 GHz	45.33 Av	13.21 / 36.19 / 43.19 / 1.22	52.75	V / 1.00 / 231	-1.25	n/a
9.778 GHz	49.65 Pk	16.03 / 37.82 / 42.04 / 1.28	62.74	V / 1.05 / 205	n/a	-11.26
9.778 GHz	38.28 Av	16.04 / 37.82 / 42.04 / 1.28	51.37	V / 1.05 / 205	-2.63	n/a
No emissions detected 12-18 GHz.						
Low Channel						
4.809 GHz	51.0 Pk	9.52 / 32.78 / 43.55 / 0.58	50.33	V / 1.03 / 16	n/a	-23.67
7.217 GHz	52.05 Pk	13.07 / 36.04 / 43.12 / 1.28	59.32	V / 1.37 / 333	n/a	-14.68
7.217 GHz	40.07 Av	13.07 / 36.04 / 43.12 / 1.28	47.34	V / 1.37 / 333	-6.66	n/a
9.618 GHz	47.3 Pk	15.87 / 37.72 / 42.13 / 1.03	59.79	V / 1.08 / 197	n/a	-14.21
9.618 GHz	35.93 Av	15.87 / 37.72 / 42.13 / 1.03	48.42	V / 1.08 / 197	-5.58	n/a
No emissions detected 12-18 GHz.						
Second Antenna						
Low Channel						
4.809 GHz	51.0 Pk	9.52 / 32.78 / 43.55 / 0.58	50.33	V / 1.00 / 164	n/a	-23.67
7.217 GHz	52.85 Pk	13.07 / 36.04 / 43.12 / 1.28	60.12	H / 1.43 / 218	n/a	-13.88
7.217 GHz	41.48 Av	13.07 / 36.04 / 43.12 / 1.28	48.75	H / 1.43 / 218	-5.25	n/a
9.618 GHz	42.5 Pk	15.87 / 37.72 / 42.13 / 1.03	54.99	H / 1.18 / 233	n/a	-19.01
9.618 GHz	31.13 Av	15.87 / 37.72 / 42.13 / 1.03	43.62	H / 1.18 / 233	-10.38	n/a

Tested by: Robert J Behringer _____
 Printed Signature

Reviewed by: _____
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No emissions detected 12-18 GHz.						
Mid Channel						
4.889 GHz	51.05 Pk	9.64 / 32.96 / 43.62 / 0.63	50.65	H / 1.17 / 65	n/a	-23.35
7.336 GHz	57.55 Pk	13.21 / 36.19 / 43.19 / 1.22	64.98	H / 1.37 / 212	n/a	-9.02
7.337 GHz	46.18 Av	13.21 / 36.19 / 43.19 / 1.22	53.61	H / 1.37 / 212	-0.39	n/a
9.782 GHz	49.4 Pk	16.04 / 37.82 / 42.04 / 1.27	62.49	H / 1.14 / 197	n/a	-11.51
9.782 GHz	38.03 Av	16.04 / 37.82 / 42.04 / 1.27	51.12	H / 1.14 / 197	-2.88	n/a

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Customer: Hunt Technology Rel. Humidity: 56.0 %

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Rev 5 PCB, ch 26 at -20 dBm pwr setting

Notes: _____

Data File Name: 4860.dat Page: 3 of 5

Measurement summary for limit1: FCC B >1GHz 3m ave (Av)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC B >1GHz 3m ave
7.337 GHz	46.18 Av	13.21 / 36.19 / 43.19 / 1.22	53.61	H / 1.37 / 212	-0.39
7.334 GHz	45.33 Av	13.21 / 36.19 / 43.19 / 1.22	52.75	V / 1.00 / 231	-1.25
9.778 GHz	38.28 Av	16.04 / 37.82 / 42.04 / 1.28	51.37	V / 1.05 / 205	-2.63
9.782 GHz	38.03 Av	16.04 / 37.82 / 42.04 / 1.27	51.12	H / 1.14 / 197	-2.88
7.217 GHz	41.48 Av	13.07 / 36.04 / 43.12 / 1.28	48.75	H / 1.43 / 218	-5.25
9.618 GHz	35.93 Av	15.87 / 37.72 / 42.13 / 1.03	48.42	V / 1.08 / 197	-5.58

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Notes: Rev 5 PCB, ch 26 at -20 dBm pwr setting

Data File Name: 4860.dat Page: 4 of 5

Measurement summary for limit2: FCC B >1G 3 M peak (Pk)

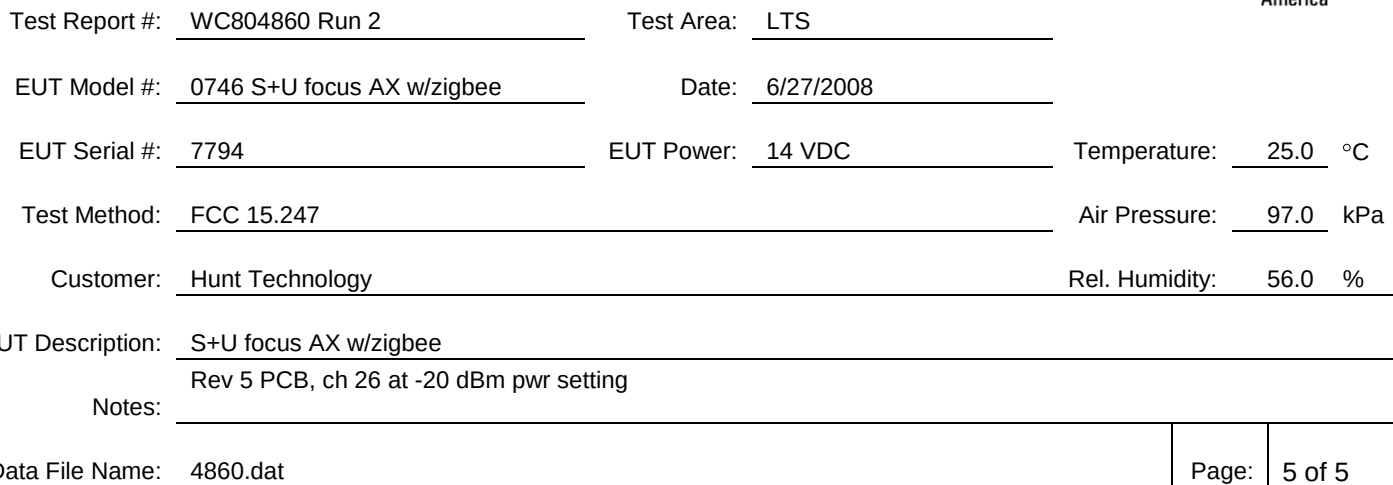
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA2 FCC B >1G 3 M peak
7.336 GHz	57.55 Pk	13.21 / 36.19 / 43.19 / 1.22	64.98	H / 1.37 / 212	-9.02
7.334 GHz	56.7 Pk	13.21 / 36.19 / 43.19 / 1.22	64.12	V / 1.00 / 231	-9.88
9.778 GHz	49.65 Pk	16.03 / 37.82 / 42.04 / 1.28	62.74	V / 1.05 / 205	-11.26
9.782 GHz	49.4 Pk	16.04 / 37.82 / 42.04 / 1.27	62.49	H / 1.14 / 197	-11.51
7.217 GHz	52.85 Pk	13.07 / 36.04 / 43.12 / 1.28	60.12	H / 1.43 / 218	-13.88
9.618 GHz	47.3 Pk	15.87 / 37.72 / 42.13 / 1.03	59.79	V / 1.08 / 197	-14.21
4.889 GHz	51.7 Pk	9.64 / 32.96 / 43.62 / 0.63	51.3	V / 1.14 / 10	-22.7
4.809 GHz	51.0 Pk	9.52 / 32.78 / 43.55 / 0.58	50.33	V / 1.03 / 16	-23.67

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amplitude in dB μ V/m

75

70

65

60

55

50

45

1GHz

10GHz

100GHz

FCCB > 1G 3M peak

FCCB > 1GHz 3m ave

Pk-measurements

AV-measurements

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