

RADIATED EMISSIONS



Test Report #: WC1000616 Run 4 Test Area: LTS

EUT Model #: 864 Date: 1/26/2010

EUT Serial #: 92C72 EUT Power: 14VDC Temperature: 23.0 °C

Test Method: FCC Part 15 B Air Pressure: 98.0 kPa

Customer: Landis & Gyr Rel. Humidity: 18.0 %

EUT Description: 2.4 GHz Transmitter

Notes:

Data File Name: 0616.dat

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List of measurements for run #: 4

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC B >1G 3 M peak	DELTA2 FCC B >1GHz 3m av
Maximize 2.405 GHz.						
2.405 GHz	84.25 Pk	4.19 / 28.12 / 0.0 / 0.0	116.55	V / 1.00 / 90	42.55	n/a
2.405 GHz	82.3 Av	4.19 / 28.12 / 0.0 / 0.0	114.61	V / 1.00 / 90	n/a	60.61
2.405 GHz	88.7 Pk	4.19 / 28.12 / 0.0 / 0.0	121.01	V / 1.70 / 45	47.01	n/a
2.405 GHz	87.4 Av	4.19 / 28.12 / 0.0 / 0.0	119.71	V / 1.70 / 45	n/a	65.71
Maximize 2.445 GHz.						
2.445 GHz	83.7 Pk	4.22 / 28.26 / 0.0 / 0.0	116.18	V / 1.00 / 345	42.18	n/a
2.445 GHz	81.6 Av	4.22 / 28.26 / 0.0 / 0.0	114.07	V / 1.00 / 345	n/a	60.07
2.445 GHz	87.35 Pk	4.22 / 28.26 / 0.0 / 0.0	119.82	H / 1.65 / 45	45.82	n/a
2.445 GHz	86.05 Av	4.22 / 28.26 / 0.0 / 0.0	118.52	H / 1.65 / 45	n/a	64.52
Maximize 2.480 GHz.						
Lower Power Level.						
2.48 GHz	71.15 Pk	4.24 / 28.38 / 43.49 / 0.0	60.28	V / 1.20 / 75	-13.72	n/a
2.48 GHz	69.0 Av	4.24 / 28.38 / 43.49 / 0.0	58.13	V / 1.20 / 75	n/a	4.13
2.48 GHz	71.65 Pk	4.24 / 28.38 / 43.49 / 0.0	60.78	H / 1.20 / 40	-13.22	n/a
2.48 GHz	70.35 Av	4.24 / 28.38 / 43.49 / 0.0	59.48	H / 1.20 / 40	n/a	5.48
Spurious Scan						
Low Channel (2.405 GHz)						
4.809 GHz	69.35 Pk	6.5 / 32.74 / 43.15 / 0.44	65.87	V / 1.15 / 238	-8.13	n/a
4.81 GHz	61.35 Av	6.5 / 32.75 / 43.15 / 0.44	57.88	V / 1.15 / 238	n/a	3.88
4.81 GHz	57.35 Pk	6.5 / 32.75 / 43.15 / 0.44	53.88	H / 1.00 / 344	-20.12	n/a
4.81 GHz	51.65 Av	6.5 / 32.75 / 43.15 / 0.44	48.18	H / 1.00 / 344	n/a	-5.82
9.618 GHz	59.9 Pk	10.27 / 37.63 / 41.83 / 0.66	66.64	V / 1.20 / 30	-7.36	n/a
9.618 GHz	49.95 Av	10.27 / 37.63 / 41.83 / 0.66	56.69	V / 1.20 / 30	n/a	2.69
9.622 GHz	60.95 Pk	10.28 / 37.64 / 41.83 / 0.66	67.7	H / 1.17 / 237	-6.3	n/a
9.622 GHz	51.1 Av	10.28 / 37.64 / 41.83 / 0.66	57.85	H / 1.17 / 237	n/a	3.85

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High Channel (2.48 GHz)						
4.959 GHz	47.5 Pk	6.64 / 33.06 / 43.03 / 0.0	44.17	V / 1.10 / 195	-29.83	n/a
4.959 GHz	38.28 Av	6.64 / 33.06 / 43.03 / 0.0	34.95	V / 1.10 / 195	n/a	-19.05
Reduce the power of Mid Channel.						
Maximize 2.445 GHz.						
2.444 GHz	84.4 Pk	4.22 / 28.26 / 0.0 / 0.0	116.87	V / 1.00 / 68	42.87	n/a
2.445 GHz	82.1 Av	4.22 / 28.26 / 0.0 / 0.0	114.57	V / 1.00 / 68	n/a	60.57
2.445 GHz	87.05 Pk	4.22 / 28.26 / 0.0 / 0.0	119.52	H / 1.70 / 55	45.52	n/a
2.445 GHz	85.85 Av	4.22 / 28.26 / 0.0 / 0.0	118.32	H / 1.70 / 55	n/a	64.32
Harmonics.						
7.333 GHz	69.1 Pk	7.14 / 36.24 / 42.17 / 1.22	71.52	V / 1.00 / 0	-2.48	n/a
7.334 GHz	58.25 Av	7.14 / 36.24 / 42.17 / 1.22	60.67	V / 1.00 / 0	n/a	6.67
7.333 GHz	67.9 Pk	7.14 / 36.24 / 42.17 / 1.22	70.32	H / 1.20 / 70	-3.68	n/a
7.334 GHz	57.35 Av	7.14 / 36.24 / 42.17 / 1.22	59.77	H / 1.20 / 70	n/a	5.77
4.889 GHz	59.85 Pk	6.58 / 32.91 / 43.09 / 0.45	56.7	V / 1.16 / 335	-17.3	n/a
4.89 GHz	51.4 Av	6.58 / 32.92 / 43.09 / 0.45	48.26	V / 1.16 / 335	n/a	-5.74
4.891 GHz	51.45 Pk	6.58 / 32.92 / 43.09 / 0.45	48.31	H / 1.16 / 0	-25.69	n/a
4.889 GHz	42.45 Av	6.58 / 32.91 / 43.09 / 0.45	39.3	H / 1.16 / 0	n/a	-14.7
End of Scan 1-18 GHz						
No emissions detected 18-26.5 GHz.						

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Measurement summary for limit1: FCC B >1G 3 M peak (Pk)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC B >1G 3 M peak
2.405 GHz	88.7 Pk	4.19 / 28.12 / 0.0 / 0.0	121.01	V / 1.70 / 45	47.01
2.445 GHz	87.35 Pk	4.22 / 28.26 / 0.0 / 0.0	119.82	H / 1.65 / 45	45.82
2.444 GHz	84.4 Pk	4.22 / 28.26 / 0.0 / 0.0	116.87	V / 1.00 / 68	42.87
2.405 GHz	84.25 Pk	4.19 / 28.12 / 0.0 / 0.0	116.55	V / 1.00 / 90	42.55
2.445 GHz	83.7 Pk	4.22 / 28.26 / 0.0 / 0.0	116.18	V / 1.00 / 345	42.18
7.333 GHz	69.1 Pk	7.14 / 36.24 / 42.17 / 1.22	71.52	V / 1.00 / 0	-2.48
9.622 GHz	60.95 Pk	10.28 / 37.64 / 41.83 / 0.66	67.7	H / 1.17 / 237	-6.3
9.618 GHz	59.9 Pk	10.27 / 37.63 / 41.83 / 0.66	66.64	V / 1.20 / 30	-7.36
4.809 GHz	69.35 Pk	6.5 / 32.74 / 43.15 / 0.44	65.87	V / 1.15 / 238	-8.13
2.48 GHz	71.65 Pk	4.24 / 28.38 / 43.49 / 0.0	60.78	H / 1.20 / 40	-13.22
2.48 GHz	71.15 Pk	4.24 / 28.38 / 43.49 / 0.0	60.28	V / 1.20 / 75	-13.72
4.889 GHz	59.85 Pk	6.58 / 32.91 / 43.09 / 0.45	56.7	V / 1.16 / 335	-17.3
4.81 GHz	57.35 Pk	6.5 / 32.75 / 43.15 / 0.44	53.88	H / 1.00 / 344	-20.12
4.891 GHz	51.45 Pk	6.58 / 32.92 / 43.09 / 0.45	48.31	H / 1.16 / 0	-25.69
4.959 GHz	47.5 Pk	6.64 / 33.06 / 43.03 / 0.0	44.17	V / 1.10 / 195	-29.83

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Measurement summary for limit2: FCC B >1GHz 3m av (Av)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA2 FCC B >1GHz 3m av
2.405 GHz	87.4 Av	4.19 / 28.12 / 0.0 / 0.0	119.71	V / 1.70 / 45	65.71
2.445 GHz	86.05 Av	4.22 / 28.26 / 0.0 / 0.0	118.52	H / 1.65 / 45	64.52
7.334 GHz	58.25 Av	7.14 / 36.24 / 42.17 / 1.22	60.67	V / 1.00 / 0	6.67
2.48 GHz	70.35 Av	4.24 / 28.38 / 43.49 / 0.0	59.48	H / 1.20 / 40	5.48
4.81 GHz	61.35 Av	6.5 / 32.75 / 43.15 / 0.44	57.88	V / 1.15 / 238	3.88
9.622 GHz	51.1 Av	10.28 / 37.64 / 41.83 / 0.66	57.85	H / 1.17 / 237	3.85
9.618 GHz	49.95 Av	10.27 / 37.63 / 41.83 / 0.66	56.69	V / 1.20 / 30	2.69
4.89 GHz	51.4 Av	6.58 / 32.92 / 43.09 / 0.45	48.26	V / 1.16 / 335	-5.74
4.889 GHz	42.45 Av	6.58 / 32.91 / 43.09 / 0.45	39.3	H / 1.16 / 0	-14.7
4.959 GHz	38.28 Av	6.64 / 33.06 / 43.03 / 0.0	34.95	V / 1.10 / 195	-19.05

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Graph:



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