

RADIATED EMISSIONS



Test Report #: WC1000616 Run 1 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: 902 MHz Transmitter

Notes:

Data File Name: 0616.dat

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List of measurements for run #: 1

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
Spurious Emissions Scan 1 - 10000GHz.						
Maximize 902.1 MHz.						
902.096 MHz	98.2 Pk	2.55 / 22.59 / 0.0 / 0.0	123.34	V / 1.10 / 328	n/a	n/a
902.096 MHz	94.45 Pk	2.55 / 22.59 / 0.0 / 0.0	119.59	H / 1.00 / 0	n/a	n/a
Maximize 915 MHz.						
915.0 MHz	92.8 Pk	2.61 / 22.73 / 0.0 / 0.0	118.14	H / 1.00 / 0	n/a	n/a
915.0 MHz	97.2 Pk	2.61 / 22.73 / 0.0 / 0.0	122.54	V / 1.20 / 324	n/a	n/a
Maximize 927.9 MHz.						
927.9 MHz	97.1 Pk	2.67 / 22.86 / 0.0 / 0.0	122.63	V / 1.15 / 320	n/a	n/a
927.9 MHz	92.25 Pk	2.67 / 22.86 / 0.0 / 0.0	117.78	H / 1.00 / 0	n/a	n/a
Low Channel (902.1MHz)						
1.804 GHz	55.6 Pk	3.75 / 26.8 / 42.81 / 0.62	43.96	H / 1.00 / 350	-30.04	n/a
1.804 GHz	52.45 Av	3.75 / 26.8 / 42.81 / 0.62	40.81	H / 1.00 / 350	n/a	-13.19
2.706 GHz	48.3 Pk	4.44 / 28.75 / 43.58 / 0.28	38.19	H / 2.00 / 75	-35.81	n/a
2.706 GHz	40.79 Av	4.44 / 28.75 / 43.58 / 0.28	30.68	H / 2.00 / 75	n/a	-23.32
2.706 GHz	48.8 Pk	4.44 / 28.75 / 43.58 / 0.28	38.69	V / 1.00 / 90	-35.31	n/a
2.706 GHz	39.37 Av	4.44 / 28.75 / 43.58 / 0.28	29.26	V / 1.00 / 90	n/a	-24.74
3.608 GHz	52.15 Pk	5.32 / 31.47 / 43.7 / 0.52	45.76	H / 1.00 / 200	-28.24	n/a
3.608 GHz	48.53 Av	5.32 / 31.47 / 43.7 / 0.52	42.14	H / 1.00 / 200	n/a	-11.86
3.608 GHz	52.8 Pk	5.32 / 31.47 / 43.7 / 0.52	46.41	V / 1.35 / 225	-27.59	n/a
3.608 GHz	49.68 Av	5.32 / 31.47 / 43.7 / 0.52	43.29	V / 1.35 / 225	n/a	-10.71
4.511 GHz	46.4 Pk	6.21 / 32.3 / 43.39 / 0.37	41.88	V / 1.10 / 180	-32.12	n/a
4.511 GHz	38.15 Av	6.21 / 32.3 / 43.39 / 0.37	33.63	V / 1.10 / 180	n/a	-20.37
5.413 GHz	46.25 Pk	6.84 / 33.99 / 43.0 / 0.55	44.63	V / 1.00 / 195	-29.37	n/a
5.413 GHz	37.43 Av	6.84 / 33.99 / 43.0 / 0.55	35.81	V / 1.00 / 195	n/a	-18.19
5.413 GHz	46.75 Pk	6.84 / 33.99 / 43.0 / 0.55	45.13	H / 1.50 / 50	-28.87	n/a

Tested by: Robert J Behringer

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Reviewed by: Dennis E Maloney

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RADIATED EMISSIONS



Test Report #: WC1000616 Run 1 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: 902 MHz Transmitter

Notes:

Data File Name: 0616.dat

Page: 2 of 7

List of measurements for run #: 1

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
5.413 GHz	37.58 Av	6.84 / 33.99 / 43.0 / 0.55	35.96	H / 1.50 / 50	n/a	-18.04
6.315 GHz	46.85 Pk	6.98 / 34.39 / 42.69 / 0.97	46.5	H / 1.00 / 30	-27.5	n/a
6.315 GHz	38.8 Av	6.98 / 34.39 / 42.69 / 0.97	38.45	H / 1.00 / 30	n/a	-15.55
6.315 GHz	46.75 Pk	6.98 / 34.39 / 42.69 / 0.97	46.4	V / 1.00 / 0	-27.6	n/a
6.315 GHz	38.42 Av	6.98 / 34.39 / 42.69 / 0.97	38.07	V / 1.00 / 0	n/a	-15.93
7.217 GHz	46.7 Pk	7.12 / 35.95 / 42.24 / 1.16	48.69	V / 1.15 / 200	-25.31	n/a
7.217 GHz	39.67 Av	7.12 / 35.95 / 42.24 / 1.16	41.66	V / 1.15 / 200	n/a	-12.34
7.217 GHz	48.85 Pk	7.12 / 35.95 / 42.24 / 1.16	50.84	H / 1.50 / 155	-23.16	n/a
7.217 GHz	39.07 Av	7.12 / 35.95 / 42.24 / 1.16	41.06	H / 1.50 / 155	n/a	-12.94
8.119 GHz	47.85 Pk	7.79 / 36.78 / 41.84 / 0.97	51.55	V / 1.00 / 197	-22.45	n/a
8.119 GHz	40.79 Av	7.79 / 36.78 / 41.84 / 0.97	44.49	V / 1.00 / 197	n/a	-9.51
8.119 GHz	47.35 Pk	7.79 / 36.78 / 41.84 / 0.97	51.05	H / 1.30 / 220	-22.95	n/a
8.119 GHz	40.57 Av	7.79 / 36.78 / 41.84 / 0.97	44.27	H / 1.30 / 220	n/a	-9.73
9.021 GHz	46.4 Pk	9.29 / 37.38 / 42.06 / 0.86	51.86	V / 1.00 / 0	-22.14	n/a
9.021 GHz	37.06 Av	9.29 / 37.38 / 42.06 / 0.86	42.52	V / 1.00 / 0	n/a	-11.48
(noise floor.)						
Mid Channel (915MHz)						
2.745 GHz	49.15 Pk	4.48 / 28.73 / 43.6 / 0.31	39.07	H / 1.00 / 75	-34.93	n/a
2.745 GHz	41.41 Av	4.48 / 28.73 / 43.6 / 0.31	31.33	H / 1.00 / 75	n/a	-22.67
3.66 GHz	50.45 Pk	5.38 / 31.63 / 43.7 / 0.52	44.28	V / 1.36 / 205	-29.72	n/a
3.66 GHz	45.05 Av	5.38 / 31.63 / 43.7 / 0.52	38.88	V / 1.36 / 205	n/a	-15.12
4.575 GHz	47.2 Pk	6.27 / 32.3 / 43.34 / 0.38	42.81	V / 1.00 / 0	-31.19	n/a
4.575 GHz	37.76 Av	6.27 / 32.3 / 43.34 / 0.38	33.37	V / 1.00 / 0	n/a	-20.63
5.49 GHz	45.9 Pk	6.86 / 33.91 / 43.0 / 0.61	44.27	H / 1.50 / 50	-29.73	n/a
5.49 GHz	37.1 Av	6.86 / 33.91 / 43.0 / 0.61	35.47	H / 1.50 / 50	n/a	-18.53
6.405 GHz	47.45 Pk	6.99 / 34.3 / 42.6 / 1.1	47.24	V / 1.00 / 10	-26.76	n/a
6.405 GHz	38.75 Av	6.99 / 34.3 / 42.6 / 1.1	38.54	V / 1.00 / 10	n/a	-15.46
7.32 GHz	47.2 Pk	7.13 / 36.2 / 42.18 / 1.21	49.57	V / 1.40 / 195	-24.43	n/a
7.32 GHz	40.11 Av	7.13 / 36.2 / 42.18 / 1.21	42.48	V / 1.40 / 195	n/a	-11.52

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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: 902 MHz Transmitter

Notes:

Data File Name: 0616.dat

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List of measurements for run #: 1

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
8.235 GHz	46.55 Pk	7.99 / 36.74 / 41.88 / 0.93	50.33	V / 1.00 / 205	-23.67	n/a
8.235 GHz	38.23 Av	7.99 / 36.74 / 41.88 / 0.93	42.01	V / 1.00 / 205	n/a	-11.99
9.15 GHz	47.65 Pk	9.5 / 37.25 / 42.02 / 0.82	53.2	V / 1.00 / 0	-20.8	n/a
9.15 GHz	36.94 Av	9.5 / 37.25 / 42.02 / 0.82	42.49	V / 1.00 / 0	n/a	-11.51
High Channel (927.9MHz)						
2.784 GHz	47.3 Pk	4.52 / 28.71 / 43.61 / 0.33	37.24	H / 1.00 / 80	-36.76	n/a
2.784 GHz	41.02 Av	4.52 / 28.71 / 43.61 / 0.33	30.96	H / 1.00 / 80	n/a	-23.04
3.712 GHz	47.65 Pk	5.43 / 31.8 / 43.7 / 0.54	41.71	V / 1.50 / 200	-32.29	n/a
3.712 GHz	40.14 Av	5.43 / 31.8 / 43.7 / 0.54	34.2	V / 1.50 / 200	n/a	-19.8
4.64 GHz	42.15 Pk	6.33 / 32.38 / 43.29 / 0.4	37.98	V / 1.00 / 0	-36.02	n/a
4.64 GHz	37.92 Av	6.33 / 32.38 / 43.29 / 0.4	33.75	V / 1.00 / 0	n/a	-20.25
5.568 GHz	46.75 Pk	6.87 / 33.83 / 43.0 / 0.66	45.11	H / 1.50 / 55	-28.89	n/a
5.568 GHz	37.16 Av	6.87 / 33.83 / 43.0 / 0.66	35.52	H / 1.50 / 55	n/a	-18.48
6.495 GHz	46.95 Pk	7.01 / 34.2 / 42.5 / 1.07	46.73	V / 1.00 / 0	-27.27	n/a
6.496 GHz	37.55 Av	7.01 / 34.2 / 42.5 / 1.07	37.33	V / 1.00 / 0	n/a	-16.67
7.423 GHz	47.4 Pk	7.15 / 36.38 / 42.12 / 1.26	50.07	V / 1.20 / 195	-23.93	n/a
7.423 GHz	37.76 Av	7.15 / 36.38 / 42.12 / 1.26	40.43	V / 1.20 / 195	n/a	-13.57
8.352 GHz	46.9 Pk	8.18 / 36.87 / 41.92 / 0.9	50.93	V / 1.00 / 205	-23.07	n/a
8.352 GHz	37.53 Av	8.18 / 36.87 / 41.92 / 0.9	41.56	V / 1.00 / 205	n/a	-12.44
9.279 GHz	46.8 Pk	9.71 / 37.31 / 41.97 / 0.77	52.62	V / 1.00 / 0	-21.38	n/a
9.279 GHz	36.96 Av	9.71 / 37.31 / 41.97 / 0.77	42.78	V / 1.00 / 0	n/a	-11.22
Mid Channel (915MHz) with 115.2kbps						
2.745 GHz	50.6 Pk	4.48 / 28.73 / 43.6 / 0.31	40.52	H / 1.00 / 80	-33.48	n/a
2.745 GHz	40.95 Av	4.48 / 28.73 / 43.6 / 0.31	30.87	H / 1.00 / 80	n/a	-23.13
3.66 GHz	50.25 Pk	5.38 / 31.63 / 43.7 / 0.52	44.08	V / 1.20 / 195	-29.92	n/a
3.66 GHz	45.11 Av	5.38 / 31.63 / 43.7 / 0.52	38.94	V / 1.20 / 195	n/a	-15.06
4.575 GHz	47.1 Pk	6.27 / 32.3 / 43.34 / 0.38	42.71	V / 1.00 / 0	-31.29	n/a
4.575 GHz	37.71 Av	6.27 / 32.3 / 43.34 / 0.38	33.32	V / 1.00 / 0	n/a	-20.68

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RADIATED EMISSIONS



Test Report #: WC1000616 Run 1 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: 902 MHz Transmitter

Notes: _____

Data File Name: 0616.dat

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List of measurements for run #: 1

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
5.49 GHz	37.85 Pk	6.86 / 33.91 / 43.0 / 0.61	36.22	H / 1.50 / 50	-37.78	n/a
5.49 GHz	36.94 Av	6.86 / 33.91 / 43.0 / 0.61	35.31	H / 1.50 / 50	n/a	-18.69
6.405 GHz	47.15 Pk	6.99 / 34.3 / 42.6 / 1.1	46.94	V / 1.00 / 20	-27.06	n/a
6.405 GHz	39.14 Av	6.99 / 34.3 / 42.6 / 1.1	38.93	V / 1.00 / 20	n/a	-15.07
7.32 GHz	47.1 Pk	7.13 / 36.2 / 42.18 / 1.21	49.47	V / 1.50 / 195	-24.53	n/a
7.32 GHz	40.59 Av	7.13 / 36.2 / 42.18 / 1.21	42.96	V / 1.50 / 195	n/a	-11.04
8.235 GHz	46.35 Pk	7.99 / 36.74 / 41.88 / 0.93	50.13	V / 1.00 / 195	-23.87	n/a
8.235 GHz	38.5 Av	7.99 / 36.74 / 41.88 / 0.93	42.28	V / 1.00 / 195	n/a	-11.72
9.15 GHz	45.35 Pk	9.5 / 37.25 / 42.02 / 0.82	50.9	V / 1.00 / 0	-23.1	n/a
9.15 GHz	36.92 Av	9.5 / 37.25 / 42.02 / 0.82	42.47	V / 1.00 / 0	n/a	-11.53

End of Scan 1 - 10000 GHz.

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RADIATED EMISSIONS



Test Report #: WC1000616 Run 1 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: 902 MHz Transmitter

Notes:

Data File Name: 0616.dat

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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
9.15 GHz	47.65 Pk	9.5 / 37.25 / 42.02 / 0.82	53.2	V / 1.00 / 0	-20.8
9.279 GHz	46.8 Pk	9.71 / 37.31 / 41.97 / 0.77	52.62	V / 1.00 / 0	-21.38
9.021 GHz	46.4 Pk	9.29 / 37.38 / 42.06 / 0.86	51.86	V / 1.00 / 0	-22.14
8.119 GHz	47.85 Pk	7.79 / 36.78 / 41.84 / 0.97	51.55	V / 1.00 / 197	-22.45
8.352 GHz	46.9 Pk	8.18 / 36.87 / 41.92 / 0.9	50.93	V / 1.00 / 205	-23.07
7.217 GHz	48.85 Pk	7.12 / 35.95 / 42.24 / 1.16	50.84	H / 1.50 / 155	-23.16
8.235 GHz	46.55 Pk	7.99 / 36.74 / 41.88 / 0.93	50.33	V / 1.00 / 205	-23.67
7.423 GHz	47.4 Pk	7.15 / 36.38 / 42.12 / 1.26	50.07	V / 1.20 / 195	-23.93
7.32 GHz	47.2 Pk	7.13 / 36.2 / 42.18 / 1.21	49.57	V / 1.40 / 195	-24.43
6.405 GHz	47.45 Pk	6.99 / 34.3 / 42.6 / 1.1	47.24	V / 1.00 / 10	-26.76
6.495 GHz	46.95 Pk	7.01 / 34.2 / 42.5 / 1.07	46.73	V / 1.00 / 0	-27.27
6.315 GHz	46.85 Pk	6.98 / 34.39 / 42.69 / 0.97	46.5	H / 1.00 / 30	-27.5
3.608 GHz	52.8 Pk	5.32 / 31.47 / 43.7 / 0.52	46.41	V / 1.35 / 225	-27.59
5.413 GHz	46.75 Pk	6.84 / 33.99 / 43.0 / 0.55	45.13	H / 1.50 / 50	-28.87
5.568 GHz	46.75 Pk	6.87 / 33.83 / 43.0 / 0.66	45.11	H / 1.50 / 55	-28.89
3.66 GHz	50.45 Pk	5.38 / 31.63 / 43.7 / 0.52	44.28	V / 1.36 / 205	-29.72
5.49 GHz	45.9 Pk	6.86 / 33.91 / 43.0 / 0.61	44.27	H / 1.50 / 50	-29.73
1.804 GHz	55.6 Pk	3.75 / 26.8 / 42.81 / 0.62	43.96	H / 1.00 / 350	-30.04
4.575 GHz	47.2 Pk	6.27 / 32.3 / 43.34 / 0.38	42.81	V / 1.00 / 0	-31.19
4.511 GHz	46.4 Pk	6.21 / 32.3 / 43.39 / 0.37	41.88	V / 1.10 / 180	-32.12
3.712 GHz	47.65 Pk	5.43 / 31.8 / 43.7 / 0.54	41.71	V / 1.50 / 200	-32.29
2.745 GHz	50.6 Pk	4.48 / 28.73 / 43.6 / 0.31	40.52	H / 1.00 / 80	-33.48
2.706 GHz	48.8 Pk	4.44 / 28.75 / 43.58 / 0.28	38.69	V / 1.00 / 90	-35.31
4.64 GHz	42.15 Pk	6.33 / 32.38 / 43.29 / 0.4	37.98	V / 1.00 / 0	-36.02
2.784 GHz	47.3 Pk	4.52 / 28.71 / 43.61 / 0.33	37.24	H / 1.00 / 80	-36.76

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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: 902 MHz Transmitter

Notes:

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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
8.119 GHz	40.79 Av	7.79 / 36.78 / 41.84 / 0.97	44.49	V / 1.00 / 197	-9.51
3.608 GHz	49.68 Av	5.32 / 31.47 / 43.7 / 0.52	43.29	V / 1.35 / 225	-10.71
7.32 GHz	40.59 Av	7.13 / 36.2 / 42.18 / 1.21	42.96	V / 1.50 / 195	-11.04
9.279 GHz	36.96 Av	9.71 / 37.31 / 41.97 / 0.77	42.78	V / 1.00 / 0	-11.22
9.021 GHz	37.06 Av	9.29 / 37.38 / 42.06 / 0.86	42.52	V / 1.00 / 0	-11.48
9.15 GHz	36.94 Av	9.5 / 37.25 / 42.02 / 0.82	42.49	V / 1.00 / 0	-11.51
8.235 GHz	38.5 Av	7.99 / 36.74 / 41.88 / 0.93	42.28	V / 1.00 / 195	-11.72
7.217 GHz	39.67 Av	7.12 / 35.95 / 42.24 / 1.16	41.66	V / 1.15 / 200	-12.34
8.352 GHz	37.53 Av	8.18 / 36.87 / 41.92 / 0.9	41.56	V / 1.00 / 205	-12.44
1.804 GHz	52.45 Av	3.75 / 26.8 / 42.81 / 0.62	40.81	H / 1.00 / 350	-13.19
7.423 GHz	37.76 Av	7.15 / 36.38 / 42.12 / 1.26	40.43	V / 1.20 / 195	-13.57
3.66 GHz	45.11 Av	5.38 / 31.63 / 43.7 / 0.52	38.94	V / 1.20 / 195	-15.06
6.405 GHz	39.14 Av	6.99 / 34.3 / 42.6 / 1.1	38.93	V / 1.00 / 20	-15.07
6.315 GHz	38.8 Av	6.98 / 34.39 / 42.69 / 0.97	38.45	H / 1.00 / 30	-15.55
6.496 GHz	37.55 Av	7.01 / 34.2 / 42.5 / 1.07	37.33	V / 1.00 / 0	-16.67
5.413 GHz	37.58 Av	6.84 / 33.99 / 43.0 / 0.55	35.96	H / 1.50 / 50	-18.04
5.568 GHz	37.16 Av	6.87 / 33.83 / 43.0 / 0.66	35.52	H / 1.50 / 55	-18.48
5.49 GHz	37.1 Av	6.86 / 33.91 / 43.0 / 0.61	35.47	H / 1.50 / 50	-18.53
3.712 GHz	40.14 Av	5.43 / 31.8 / 43.7 / 0.54	34.2	V / 1.50 / 200	-19.8
4.64 GHz	37.92 Av	6.33 / 32.38 / 43.29 / 0.4	33.75	V / 1.00 / 0	-20.25
4.511 GHz	38.15 Av	6.21 / 32.3 / 43.39 / 0.37	33.63	V / 1.10 / 180	-20.37
4.575 GHz	37.76 Av	6.27 / 32.3 / 43.34 / 0.38	33.37	V / 1.00 / 0	-20.63
4.575 GHz	37.71 Av	6.27 / 32.3 / 43.34 / 0.38	33.32	V / 1.00 / 0	-20.68
2.745 GHz	41.41 Av	4.48 / 28.73 / 43.6 / 0.31	31.33	H / 1.00 / 75	-22.67
2.784 GHz	41.02 Av	4.52 / 28.71 / 43.61 / 0.33	30.96	H / 1.00 / 80	-23.04
2.706 GHz	40.79 Av	4.44 / 28.75 / 43.58 / 0.28	30.68	H / 2.00 / 75	-23.32

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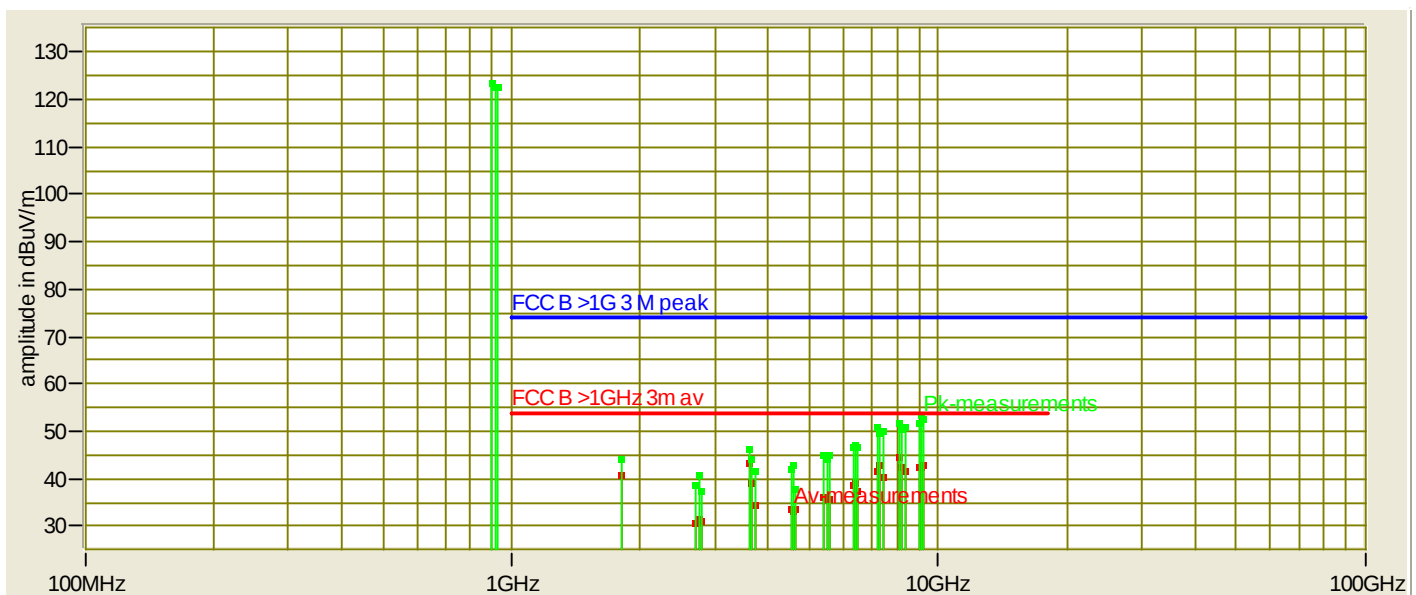
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EUT Model #: 864 Date: 1/26/2010
EUT Serial #: 92C72 EUT Power: 14VDC Temperature: 23.0 °C
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Notes:

Data File Name: 0616.dat

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Graph:



Tested by: Robert J Behringer
Printed

Robert Behringer
Signature

Reviewed by: Dennis E Maloney
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Dennis Maloney
Signature