TÜV

TUV Rheinland
of North America

This is to certify that TUV Labs performed conducted and radiated spurious emissions testing on EVERYDAY WIRELESS LLC FCC ID: QPL100. The test results attached in the following test report demonstrate that the EVERYDAY WIRELESS LLC FCC ID: QPL100 meets the conducted and radiated spurious emission requirements as specified by Part 90.210 emission specifications.

Steve O'Steen
TUV Labs

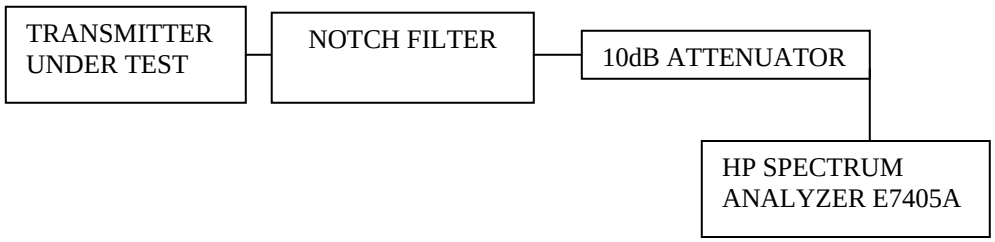
2.1051 Spurious emissions at antenna terminals (conducted):
Data provided below shows the level of conducted spurious responses.

REQUIREMENTS: Emissions must be 50 + 10log(Po) dB below the mean power output of the transmitter.

For 12.5 kHz: 50 + 10log(45) = 66.53 dBc

EMISSION FREQUENCY MHz	dB BELOW CARRIER
450	0
900	86.42
1350	123.92
1800	124.0
2250	104.30
2700	97.44
3150	133.86
3600	145.68
4050	140.74
4500	104.62
463.7	0
927.4	88.6
1391.1	123.79
1854.8	139.59
2318.5	102.05
2782.2	107.08
3245.9	116.10
3709.6	135.75
4173.3	121.90
4637	101.18
470	0
940	87.87
1410	122.0
1880	125.46
2350	102.09
2820	111.22
3290	130.86
3760	136.25
4230	133.98
4700	107.85

Method of Measuring Conducted Spurious Emissions



METHOD OF MEASUREMENT: The transmitter under test was programmed to generate a continuous wave (CW) carrier signal at peak power to measure carrier and harmonic conducted emissions. The output of the transmitter was connected to a standard load and from the standard load through a pre-selector filter of the HP model E7405A spectrum analyzer used. The spectrum was scanned from 0 to at least the 10^{th} harmonic of the fundamental. The measurements were made in accordance with standard TIA/EIA-603. The measurements were made at TUV Labs located at 762 Park Ave, Youngsville, NC 27596.

TEST EQUIPMENT USED:
- HP E7405A Spectrum Analyzer, Cal due date: 8/6/05
- 10 dB Attenuator
- Eagle Tuneable Notch Filter, Model 230NFNF (250 – 850 MHz)

2.1053 **Field strength of spurious emissions:**

NAME OF TEST: RADIATED SPURIOUS EMISSIONS (450 MHz)

REQUIREMENTS: Emissions must be 50 + 10log(Po) dB below the mean power output of the transmitter.

50 + 10log(45) = 66.53 dBc

TEST DATA:

Emission Frequency MHz	Ant. Polarity	Corrected EUT Signal Reading	Coax Loss (dB)	Substitution Antenna (dBd)	dB Below Carrier (dBc)
450.00	0	46.00	0	0	0
900.00	H	-36.90	3.38	1.21	85.07
1350.00	V	-40.33	3.44	5.79	83.98
1800.00	V	-44.66	4.08	6.48	88.26
2250.00	V	-29.63	4.62	6.91	73.34
2700.00	V	-35.62	5.08	7.30	79.40
3150.00	V	-36.58	5.54	7.48	80.64
3600.00	H	-29.62	5.90	7.66	73.86
4050.00	V	-46.31	6.27	7.43	91.15
4500.00	H	-37.92	6.62	8.96	81.58

2.1053 **Field strength of spurious emissions:**

NAME OF TEST: RADIATED SPURIOUS EMISSIONS (463.7 MHz)

REQUIREMENTS: Emissions must be 50 + 10log(Po) dB below the mean power output of the transmitter.

50 + 10log(45) = 66.53 dBc

TEST DATA:

Emission Frequency MHz	Ant. Polarity	Corrected EUT Signal Reading	Coax Loss (dB)	Substitution Antenna (dBd)	dB Below Carrier (dBc)
463.70	0	45.93	0	0	0
927.40	H	-37.10	3.41	1.23	85.21
1391.10	H	-46.6	3.51	5.92	90.12
1854.80	V	-38.43	4.15	6.50	82.0
2318.50	V	-25.46	4.71	7.01	69.09
2782.20	V	-33.18	5.12	7.32	76.91
3245.90	V	-36.10	5.59	7.56	80.06
3709.60	H	-35.47	6.03	7.55	79.88
4173.30	V	-36.13	6.30	7.85	80.51
4637.00	H	-36.76	6.75	8.82	80.62

2.1053 **Field strength of spurious emissions:**

NAME OF TEST: RADIATED SPURIOUS EMISSIONS (470 MHz)

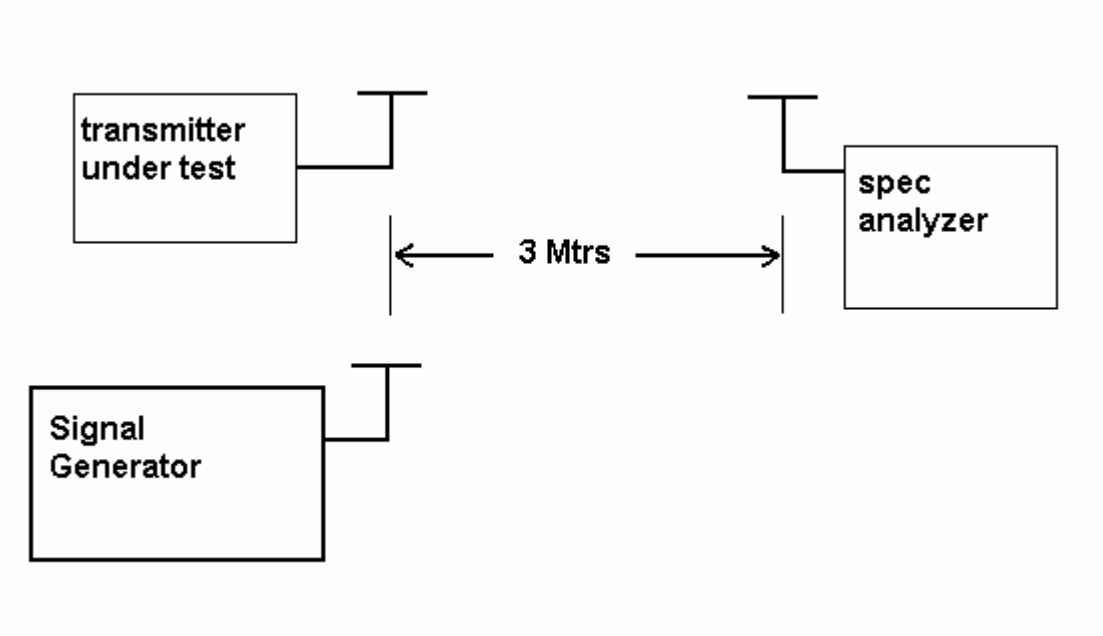
REQUIREMENTS: Emissions must be 50 + 10log(Po) dB below the mean power output of the transmitter.

50 + 10log(45) = 66.53 dBc

TEST DATA:

Emission Frequency MHz	Ant. Polarity	Corrected EUT Signal Reading	Coax Loss (dB)	Substitution Antenna (dBd)	dB Below Carrier (dBc)
470.00	0	46.01	0	0	0
940.00	V	-39.20	3.44	1.06	87.59
1410.00	H	-44.19	3.54	6.00	87.74
1880.00	V	-40.30	4.20	6.51	84.0
2350.00	V	-26.01	4.77	7.05	69.74
2820.00	H	-28.66	5.21	7.26	72.62
3290.00	H	-30.10	5.58	7.55	74.14
3760.00	H	-31.88	5.99	7.5	76.38
4230.00	H	-35.26	6.46	8.04	79.69
4700.00	H	-39.74	6.88	8.76	83.87

Method of Measuring Radiated Spurious Emissions



METHOD OF MEASUREMENTS: The tabulated data shows the results of the radiated field strength emissions test. The spectrum was scanned from 30 MHz to at least the tenth harmonic of the fundamental. This test was conducted per TIA/EIA STANDARD 603 using the substitution method. Measurements were made in the semi-anechoic RF test area at TUV Labs located at 762 Park Ave, Youngsville, NC 27596.

TEST EQUIPMENT USED:
- HP E7405A Spectrum Analyzer, Cal due date: 8/6/05
- HP 83630A Signal Generator, Cal due date: 8/5/05

RADIATED TEST SET UP PHOTOGRAPH