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## INTERTEK TESTING SERVICES

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Company: ATOM Industrial Ltd.

Date of Test: May 8, 2004

Model: NOYRF835

Worst Case Operating Mode: Transmitting Mode (Ch.1)

**Table 1**

**Radiated Emissions**

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp (dB)	Antenna factor (dB)	Average Factor (dB)	Net at 3m (dBμV/m)	Limit at 3m (dBμV/m)	Margin (dB)
V	912.393 <sup>1</sup>	58.1	16	33.0	0	75.1	94.0	-18.9
H	1824.792 <sup>4</sup>	49.4	34	27.2	0	42.6	54.0	-11.4
H	1824.792 <sup>1</sup>	50.2	34	27.2	0	43.4	74.0	-30.6
H	*2737.188 <sup>4</sup>	44.7	34	30.4	0	41.1	54.0	-12.9
H	*2737.188 <sup>1</sup>	45.3	34	30.4	0	41.7	74.0	-32.3
H	*3649.572 <sup>4</sup>	40.7	34	33.3	0	40.0	54.0	-14.0
H	*3649.572 <sup>1</sup>	41.7	34	33.3	0	41.0	74.0	-33.0
H	*4561.960 <sup>4</sup>	38.0	34	34.9	0	38.9	54.0	-15.1
H	*4561.960 <sup>1</sup>	38.8	34	34.9	0	39.7	74.0	-34.3
H	5474.300 <sup>4</sup>	36.7	34	35.7	0	38.4	54.0	-15.6
H	5474.300 <sup>1</sup>	37.5	34	35.7	0	39.2	74.0	-34.8

NOTES: 1. Peak Detector is used below 1000MHz unless otherwise stated.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative sign in the column shows value below limit.

4. Horn antenna and average detector are used for the emission over 1000MHz.

5. The radiated emission test was observed up to 40GHz.

\* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz.

Test Engineer: Terry C. H. Chan

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## INTERTEK TESTING SERVICES

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Company: ATOM Industrial Ltd.

Date of Test: May 8, 2004

Model: NOYRF835

Worst Case Operating Mode: Transmitting Mode (Ch.3)

**Table 2**

**Radiated Emissions**

Polarization	Frequency (MHz)	Reading (dB $\mu$ V)	Pre-Amp (dB)	Antenna factor (dB)	Average Factor (dB)	Net at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
V	913.589 <sup>1</sup>	58.0	16	33.0	0	75.0	94.0	-19.0
H	1827.178 <sup>4</sup>	50.0	34	27.2	0	43.2	54.0	-10.8
H	1827.178 <sup>1</sup>	51.1	34	27.2	0	44.3	74.0	-29.7
H	*2740.767 <sup>4</sup>	45.2	34	30.4	0	41.6	54.0	-12.4
H	*2740.767 <sup>1</sup>	46.1	34	30.4	0	42.5	74.0	-31.5
H	*3654.356 <sup>4</sup>	41.5	34	33.3	0	40.8	54.0	-13.2
H	*3654.356 <sup>1</sup>	42.3	34	33.3	0	41.6	74.0	-32.4
H	*4567.945 <sup>4</sup>	40.3	34	34.9	0	41.2	54.0	-12.8
H	*4567.945 <sup>1</sup>	41.1	34	34.9	0	42.0	74.0	-32.0
H	5481.534 <sup>4</sup>	39.2	34	35.7	0	40.9	54.0	-13.1
H	5481.534 <sup>1</sup>	40.1	34	35.7	0	41.8	74.0	-32.2

NOTES: 1. Peak Detector is used below 1000MHz unless otherwise stated.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative sign in the column shows value below limit.

6. Horn antenna and average detector are used for the emission over 1000MHz.

7. The radiated emission test was observed up to 40GHz.

\* Emission within the restricted band meets the requirement of part 15.205. The corresponding limit as per 15.209 is based on Quasi peak detector data for frequencies below 1000 MHz and average detector data for frequencies over 1000 MHz.

Test Engineer: Terry C. H. Chan