

# EXHIBIT S – Radiated Spurious Emissions Data

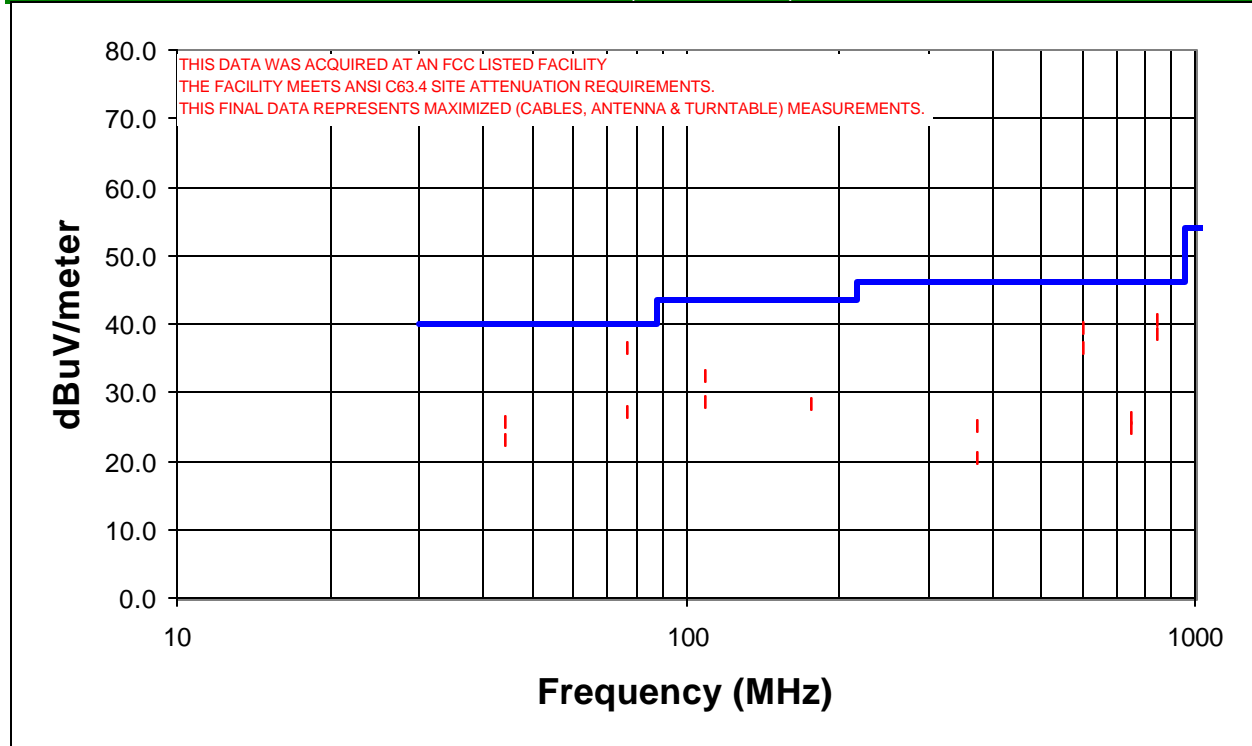
FCC ID# PEL640-0001

# Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets


Rev 3.4  
10/11/00

EUT: <b>700-0002 Wireless Lan Card</b>	Serial Number: <b>19E</b>	Job Number: <b>NEXC0006</b>	Date: <b>01/12/01</b>
Manufacturer: <b>NextComm, Inc.</b>	Test Engineer: <b>Greg Kiemel</b>	Job Site: <b>SU02</b>	
Customer Reference Number:	Software:	Power: <b>120 V, 60 Hz</b>	
Comments: <b>High channel, antenna 0. Laptop, monitor, keyboard, parallel and serial printers.</b>			
<i>ajukip</i>		Temperature (°C): <b>21</b>	% Humidity: <b>32</b>

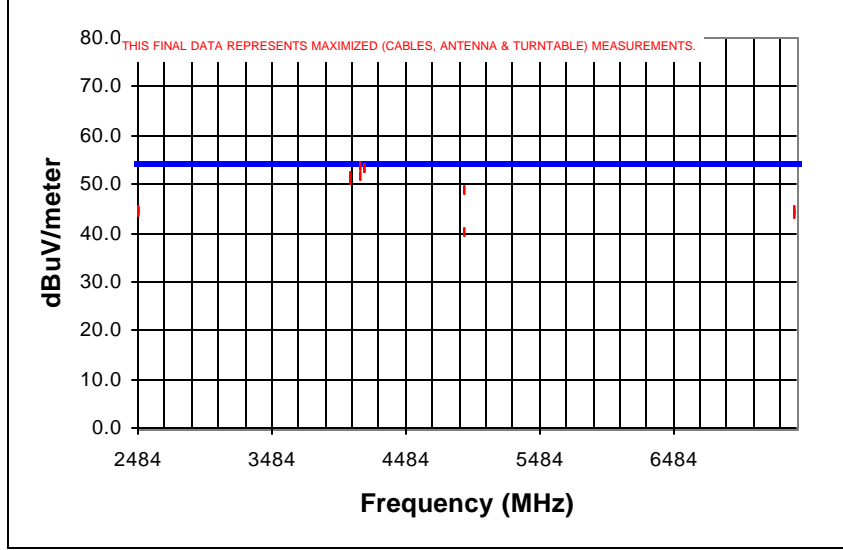
## FCC Class B (3 Meter Limit)



Frequency (MHz)	Meter Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Polarity	Preamp Gain (dB)	Cable Loss (dB)	Table Azimuth (degrees)	Antenna Height (meters)	Adjusted Level (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)
76.299	60.0	QP	8.8	VBIC	34.8	2.4	250.0	1.0	36.4	40.0	-3.6
840.519	44.5	QP	22.3	VLPA	34.5	8.3	315.0	1.0	40.6	46.0	-5.4
600.378	48.1	QP	19.0	VLPA	34.7	6.9	190.0	1.0	39.3	46.0	-6.7
840.519	42.6	QP	22.3	HLPA	34.5	8.3	235.0	1.0	38.7	46.0	-7.3
600.378	45.4	QP	19.0	HLPA	34.7	6.9	210.0	1.5	36.6	46.0	-9.4
109.254	53.3	QP	11.0	VBIC	34.7	2.7	182.0	1.0	32.3	43.5	-11.2
76.299	50.7	QP	8.8	HBIC	34.8	2.4	0.0	4.0	27.1	40.0	-13.0
44.000	47.3	QP	11.4	VBIC	34.9	1.8	190.0	1.0	25.6	40.0	-14.4
109.254	49.6	QP	11.0	HBIC	34.7	2.7	290.0	4.0	28.6	43.5	-14.9
175.944	46.6	QP	12.8	HBIC	34.6	3.5	208.0	4.0	28.3	43.5	-15.2
44.000	44.9	QP	11.4	HBIC	34.9	1.8	0.0	4.0	23.2	40.0	-16.8
748.000	31.6	QP	21.7	HLPA	35.0	7.9	230.0	1.0	26.2	46.0	-19.8
374.000	38.8	QP	15.6	HLPA	34.7	5.4	110.0	1.6	25.1	46.0	-20.9
748.000	30.2	QP	21.7	VLPA	35.0	7.9	200.0	1.0	24.8	46.0	-21.2
374.000	34.1	QP	15.6	VLPA	34.7	5.4	140.0	1.0	20.4	46.0	-25.7

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets				Rev 3.4
EUT: 700-0002		Serial Number: 19E	Job Number: NEXC0006	Date: 01/10/01
Manufacturer: NextComm, Inc.		Test Engineer: Greg Kiemel	Job Site: SU01	
Customer Reference Number:		Software:	Power: 120 V, 60 Hz	
Comments: Transmitting continuously, modulated by PRBS. Installed in notebook PC				
			Temperature (°C): 20	% Humidity: 38

FCC 15.209 Average Radiated Emissions (3 meter limit)



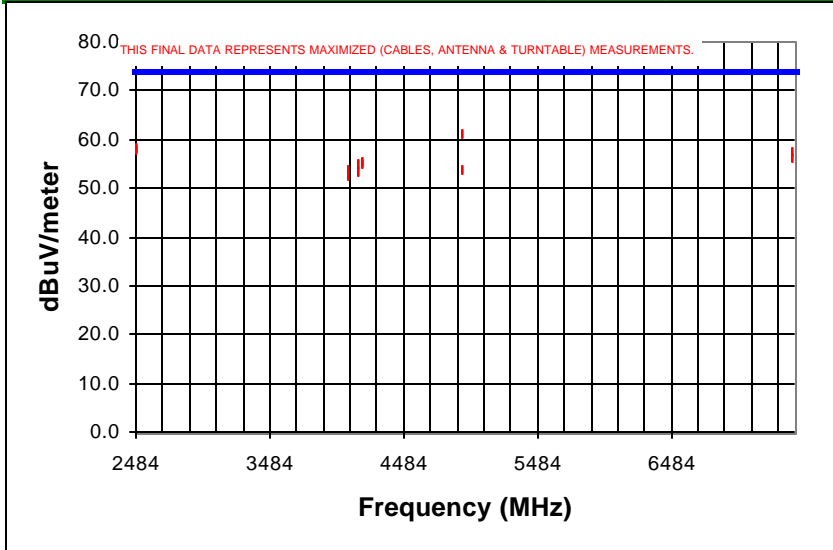
Frequency (MHz)	Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Polarity	Preamp Gain (dB)	Cable Loss (dB)	Table Azimuth (degrees)	Antenna Height (meters)	Adjusted Level (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)	Comment
2483.500	45.5	AV	30.4	VHRN	34.5	3.0	150.0	1.2	44.4	54.0	-9.6	S/N 19E, High channel, Antenna 0
2483.500	45.6	AV	30.4	HHRN	34.5	3.0	180.0	1.1	44.5	54.0	-9.5	S/N 19E, High channel, Antenna 0
4075.000	47.2	AV	34.3	VHRN	34.0	4.1	220.0	1.4	51.6	54.0	-2.4	S/N 19E, Low channel, Antenna 0
4075.000	46.4	AV	34.3	HHRN	34.0	4.1	240.0	1.2	50.8	54.0	-3.2	S/N 19E, Low channel, Antenna 0
4135.500	49.3	AV	34.2	VHRN	33.9	4.1	200.0	1.4	53.7	54.0	-0.4	S/N 19E, Mid channel, Antenna 0
4135.500	47.3	AV	34.2	HHRN	33.9	4.1	235.0	2.0	51.7	54.0	-2.3	S/N 19E, Mid channel, Antenna 0
4175.500	49.2	AV	34.1	HHRN	33.9	4.1	220.0	1.3	53.5	54.0	-0.5	S/N 19E, High channel, Antenna 0
4175.500	49.2	AV	34.1	VHRN	33.9	4.1	200.0	1.4	53.5	54.0	-0.5	S/N 19E, High channel, Antenna 0
4923.300	42.7	AV	35.1	VHRN	33.5	4.5	270.0	1.1	48.8	54.0	-5.2	S/N 19E, High channel, Antenna 0
4923.300	34.3	AV	35.1	HHRN	33.5	4.5	270.0	1.1	40.4	54.0	-13.6	S/N 19E, High channel, Antenna 0
7387.130	36.2	AV	38.1	VHRN	35.0	5.3	260.0	1.3	44.6	54.0	-9.4	S/N 19E, High channel, Antenna 0
7387.130	35.5	AV	38.1	HHRN	35.0	5.3	160.0	1.2	43.9	54.0	-10.1	S/N 19E, High channel, Antenna 0

**Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets**

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10/11/00

EUT: <b>700-0002</b>	Serial Number: <b>19E</b>	Job Number: <b>NEXC0006</b>	Date: <b>01/10/01</b>
Manufacturer: <b>NextComm, Inc.</b>	Test Engineer: <b>Greg Kiemel</b>	Job Site: <b>SU01</b>	
Customer Reference Number:	Software:	Power: <b>120 V, 60 Hz</b>	
Comments: <b>Transmitting continuously, modulated by PRBS. Installed in notebook PC</b>			
<i>THU 10</i>		Temperature (°C): <b>20</b>	% Humidity: <b>38</b>

**FCC 15.209 Peak Radiated Emissions (3 meter limit)**



Frequency (MHz)	Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Polarity	Preamp Gain (dB)	Cable Loss (dB)	Antenna Azimuth (degrees)	Antenna Height (meters)	Adjusted Level (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)	Comment
2483.500	59.4	PK	30.4	HHRN	34.5	3.0	180.0	1.1	58.3	74.0	-15.7	S/N 19E, High channel, Antenna 0
2483.500	58.9	PK	30.4	VHRN	34.5	3.0	150.0	1.2	57.8	74.0	-16.2	S/N 19E, High channel, Antenna 0
4075.000	49.3	PK	34.3	VHRN	34.0	4.1	220.0	1.4	53.7	74.0	-20.3	S/N 19E, Low channel, Antenna 0
4075.000	48.3	PK	34.3	HHRN	34.0	4.1	240.0	1.2	52.7	74.0	-21.3	S/N 19E, Low channel, Antenna 0
4135.500	50.7	PK	34.2	VHRN	33.9	4.1	200.0	1.4	55.1	74.0	-18.9	S/N 19E, Mid channel, Antenna 0
4135.500	49.0	PK	34.2	HHRN	33.9	4.1	235.0	2.0	53.4	74.0	-20.7	S/N 19E, Mid channel, Antenna 0
4175.500	50.5	PK	34.1	VHRN	33.9	4.1	200.0	1.4	54.8	74.0	-19.2	S/N 19E, High channel, Antenna 0
4175.500	51.1	PK	34.1	HHRN	33.9	4.1	220.0	1.3	55.4	74.0	-18.6	S/N 19E, High channel, Antenna 0
4923.300	54.9	PK	35.1	VHRN	33.5	4.5	270.0	1.1	61.0	74.0	-13.0	S/N 19E, High channel, Antenna 0
4923.300	47.8	PK	35.1	HHRN	33.5	4.5	270.0	1.1	53.9	74.0	-20.1	S/N 19E, High channel, Antenna 0
7387.130	48.8	PK	38.1	VHRN	35.0	5.3	260.0	1.3	57.2	74.0	-16.8	S/N 19E, High channel, Antenna 0
7387.130	48.0	PK	38.1	HHRN	35.0	5.3	160.0	1.2	56.4	74.0	-17.6	S/N 19E, High channel, Antenna 0