

## EXHIBIT AA – Radiated Spurious Emissions

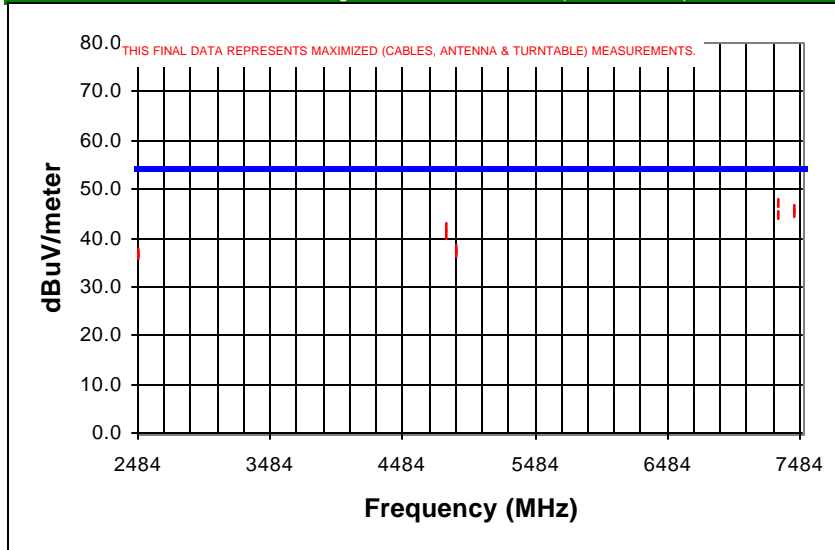
FCC ID O2Z-BT2

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

Rev 3.5  
01/11/01

EUT: <b>Intel(R) Personal Wireless Module</b>	Serial Number: <b>New module #2 1/15/01</b>	Job Number: <b>INSC0011</b>	Date: <b>01/16/01</b>
Manufacturer: <b>Intel Corporation</b>	Test Engineer: <b>Greg Kiemel</b>	Job Site: <b>EV01</b>	
Customer Reference Number:	Software:	Power:	
Comments: <b>No hop, antenna 'B'</b>			
		Temperature (°C): <b>20</b>	% Humidity: <b>34</b>

FCC 15.209 Average Radiated Emissions (3 meter limit)



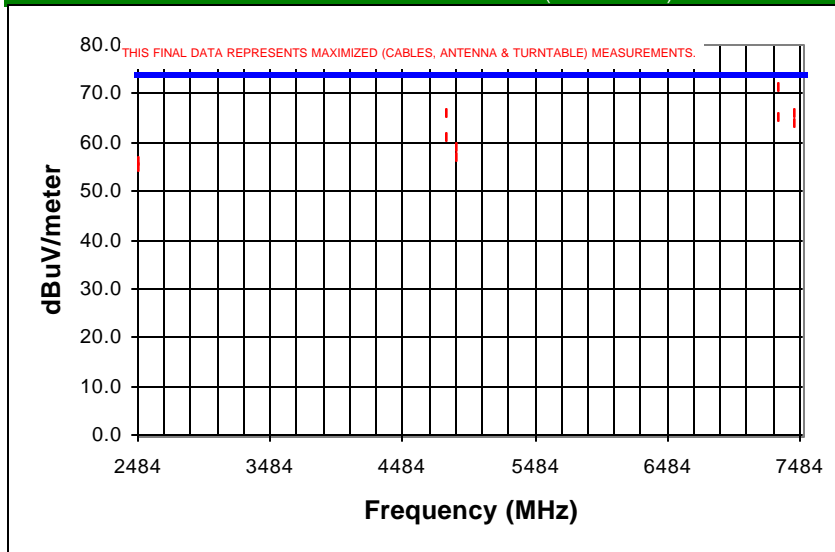
Frequency (MHz)	Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Polarity	Preamp Gain (dB)	Cable Loss (dB)	Table Azimuth (degrees)	Antenna Height (meters)	Adjusted Level (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)	Comment
2483.500	40.4	AV	27.9	VHRN	33.9	2.6	185.0	1.3	37.0	54.0	-17.1	High Xmit freq.
2483.500	40.0	AV	27.9	HHRN	33.9	2.6	245.0	2.2	36.6	54.0	-17.5	High Xmit freq.
4803.787	39.4	AV	32.8	VHRN	34.3	4.4	117.0	2.8	42.3	54.0	-11.7	Low Xmit freq.
4803.805	37.7	AV	32.8	HHRN	34.3	4.4	143.0	2.8	40.6	54.0	-13.4	Low Xmit freq.
4880.000	34.9	AV	32.9	VHRN	34.3	4.4	120.0	2.8	37.9	54.0	-16.1	Mid Xmit freq.
4880.000	33.9	AV	32.9	HHRN	34.3	4.4	229.0	2.1	36.9	54.0	-17.1	Mid Xmit freq.
7320.060	36.2	AV	36.8	VHRN	31.8	5.9	245.0	2.0	47.1	54.0	-6.9	Mid Xmit freq.
7320.060	33.9	AV	36.8	HHRN	31.8	5.9	241.0	2.1	44.8	54.0	-9.2	Mid Xmit freq.
7440.000	33.3	AV	37.3	HHRN	31.4	5.9	295.0	2.0	45.1	54.0	-8.9	High Xmit freq.
7440.000	34.0	AV	37.3	VHRN	31.4	5.9	247.0	2.3	45.8	54.0	-8.3	High Xmit freq.

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

Rev 3.5  
01/11/01

EUT: <b>Intel(R) Personal Wireless Module</b>	Serial Number: <b>New module #2 1/15/01</b>	Job Number: <b>INSC0011</b>	Date: <b>01/16/01</b>
Manufacturer: <b>Intel Corporation</b>	Test Engineer: <b>Greg Kiemel</b>	Job Site: <b>EV01</b>	
Customer Reference Number:	Software:	Power:	
Comments: <b>No hop, antenna 'B'</b>			
		Temperature (°C): <b>20</b>	% Humidity: <b>34</b>

FCC 15.209 Peak Radiated Emissions (3 meter limit)



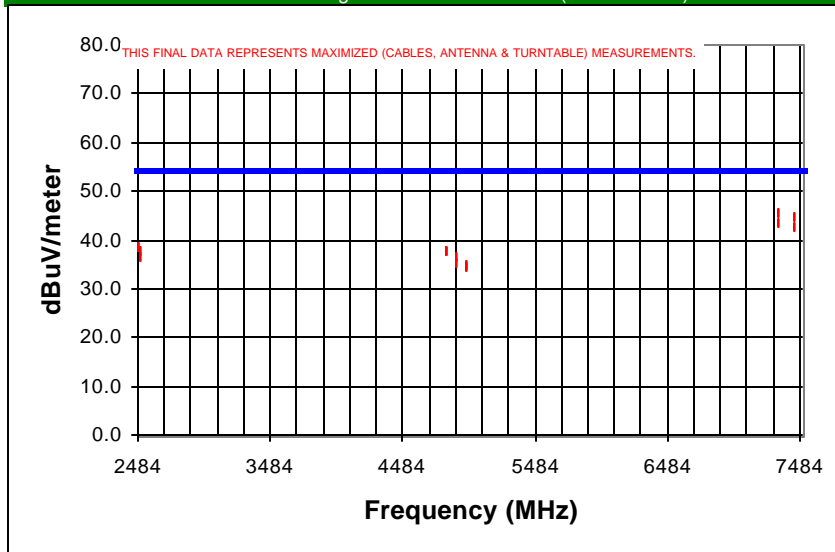
Frequency (MHz)	Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Polarity	Preamp Gain (dB)	Cable Loss (dB)	Table Azimuth (degrees)	Antenna Height (meters)	Adjusted Level (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)	Comment
2483.500	59.8	PK	27.9	VHRN	33.9	2.6	185.0	1.3	56.4	74.0	-17.7	High Xmit freq.
2483.500	58.5	PK	27.9	HHRN	33.9	2.6	245.0	2.2	55.1	74.0	-18.9	High Xmit freq.
4803.787	63.0	PK	32.8	VHRN	34.3	4.4	117.0	2.8	65.9	74.0	-8.1	Low Xmit freq.
4803.805	58.1	PK	32.8	HHRN	34.3	4.4	143.0	2.8	61.0	74.0	-13.1	Low Xmit freq.
4880.000	56.2	PK	32.9	VHRN	34.3	4.4	120.0	2.8	59.2	74.0	-14.8	Mid Xmit freq.
4880.000	54.1	PK	32.9	HHRN	34.3	4.4	229.0	2.1	57.1	74.0	-16.9	Mid Xmit freq.
7320.060	54.3	PK	36.8	HHRN	31.8	5.9	241.0	2.1	65.2	74.0	-8.8	Mid Xmit freq.
7320.060	60.7	PK	36.8	VHRN	31.8	5.9	245.0	2.0	71.6	74.0	-2.5	Mid Xmit freq.
7440.000	54.2	PK	37.3	VHRN	31.4	5.9	247.0	2.3	66.0	74.0	-8.0	High Xmit freq.
7440.000	52.2	PK	37.3	HHRN	31.4	5.9	295.0	2.0	64.0	74.0	-10.0	High Xmit freq.

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

Rev 3.5  
01/11/01

EUT: <b>Intel(R) Personal Wireless Module</b>	Serial Number: <b>New module #2 1/15/01</b>	Job Number: <b>INSC0011</b>	Date: <b>01/17/01</b>
Manufacturer: <b>Intel Corporation</b>	Test Engineer: <b>Rod Peloquin</b>	Job Site: <b>EV01</b>	
Customer Reference Number:	Software:	Power:	
Comments: <b>No hop, antenna 'C'</b>			
	Temperature (°C): <b>18</b>	% Humidity: <b>34</b>	

FCC 15.209 Average Radiated Emissions (3 meter limit)



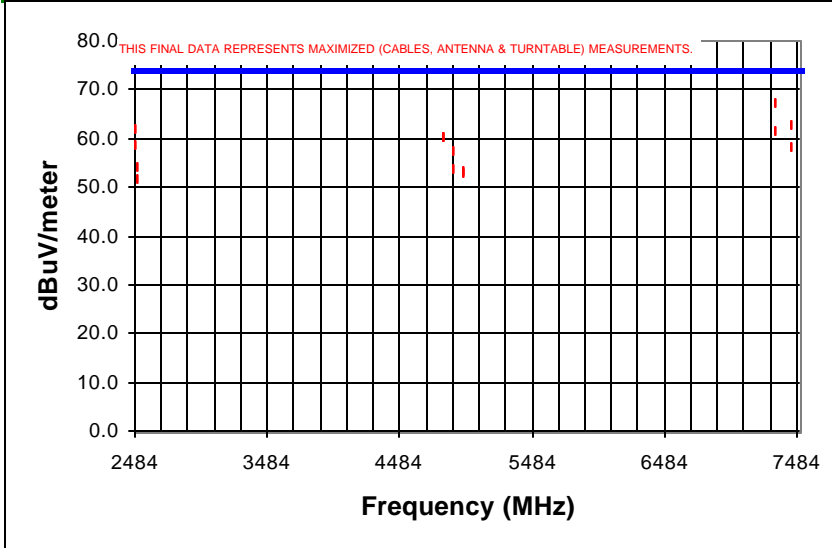
Frequency (MHz)	Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Polarity	Preamp Gain (dB)	Cable Loss (dB)	Table Azimuth (degrees)	Antenna Height (meters)	Adjusted Level (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)	Comment
2483.500	42.1	AV	27.9	VHRN	33.9	2.6	255.0	1.5	38.7	54.0	-15.4	High Xmit freq.
2483.500	41.8	AV	27.9	HHRN	33.9	2.6	336.0	3.8	38.4	54.0	-15.6	High Xmit freq.
2496.000	40.0	AV	27.9	HHRN	33.9	2.6	336.0	3.9	36.6	54.0	-17.4	High Xmit freq.
2496.000	41.2	AV	27.9	VHRN	33.9	2.6	253.0	1.5	37.8	54.0	-16.2	High Xmit freq.
4804.000	34.8	AV	32.8	VHRN	34.3	4.4	89.0	1.5	37.7	54.0	-16.3	Low Xmit freq.
4804.000	34.9	AV	32.8	HHRN	34.3	4.4	15.0	2.2	37.8	54.0	-16.3	Low Xmit freq.
4880.000	33.6	AV	32.9	HHRN	34.3	4.4	21.0	2.2	36.6	54.0	-17.4	Mid Xmit freq.
4880.000	32.4	AV	32.9	VHRN	34.3	4.4	236.0	1.5	35.4	54.0	-18.6	Mid Xmit freq.
4960.000	31.7	AV	33.0	VHRN	34.3	4.5	95.0	2.7	34.9	54.0	-19.1	High Xmit freq.
4960.000	31.4	AV	33.0	HHRN	34.3	4.5	236.0	2.0	34.6	54.0	-19.4	High Xmit freq.
7320.000	34.6	AV	36.8	VHRN	31.8	5.9	64.0	2.3	45.5	54.0	-8.5	Mid Xmit freq.
7320.000	32.6	AV	36.8	HHRN	31.8	5.9	199.0	2.0	43.5	54.0	-10.6	Mid Xmit freq.
7440.000	32.9	AV	37.3	VHRN	31.4	5.9	227.0	1.5	44.7	54.0	-9.4	High Xmit freq.
7440.000	31.0	AV	37.3	HHRN	31.4	5.9	182.0	2.4	42.8	54.0	-11.2	High Xmit freq.

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

Rev 3.5  
01/11/01

EUT: <b>Intel(R) Personal Wireless Module</b>	Serial Number: <b>New module #2 1/15/01</b>	Job Number: <b>INSC0011</b>	Date: <b>01/17/01</b>
Manufacturer: <b>Intel Corporation</b>	Test Engineer: <b>Rod Peloquin</b>	Job Site: <b>EV01</b>	
Customer Reference Number:	Software:	Power:	
Comments: <b>No hop, antenna 'C'</b>		Temperature (°C): <b>18</b>	% Humidity: <b>34</b>

FCC 15.209 Peak Radiated Emissions (3 meter limit)



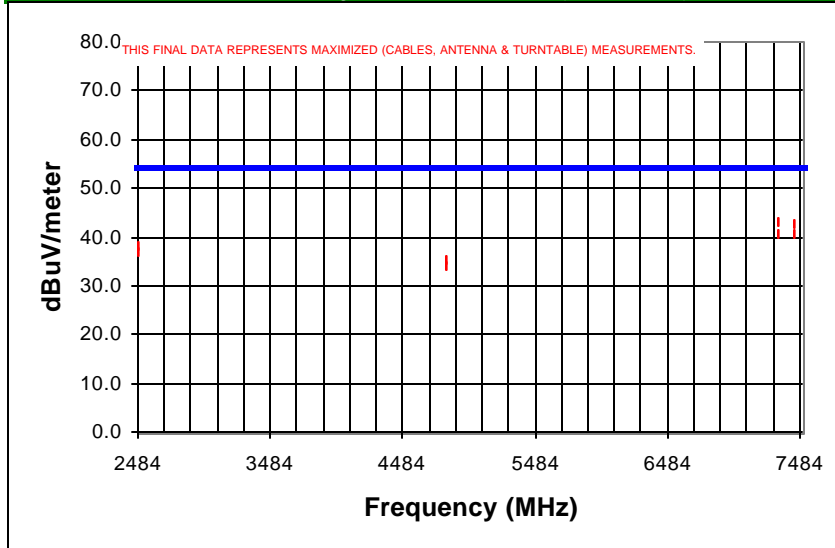
Frequency (MHz)	Reading (dBUV)	Detector	Antenna Factor (dB/m)	Antenna Polarity	Preamp Gain (dB)	Cable Loss (dB)	Table Azimuth (degrees)	Antenna Height (meters)	Adjusted Level (dBUV/m)	Spec. Limit (dBUV/m)	Margin (dB)	Comment
2483.500	61.9	PK	27.9	HHRN	33.9	2.6	336.0	3.8	58.5	74.0	-15.5	High Xmit freq.
2483.500	65.4	PK	27.9	VHRN	33.9	2.6	255.0	1.5	62.0	74.0	-12.0	High Xmit freq.
2496.000	55.2	PK	27.9	HHRN	33.9	2.6	336.0	3.9	51.8	74.0	-22.2	High Xmit freq.
2496.000	57.4	PK	27.9	VHRN	33.9	2.6	253.0	1.5	54.0	74.0	-20.1	High Xmit freq.
4804.000	57.5	PK	32.8	HHRN	34.3	4.4	15.0	2.2	60.4	74.0	-13.6	Low Xmit freq.
4804.000	57.5	PK	32.8	VHRN	34.3	4.4	89.0	1.5	60.4	74.0	-13.7	Low Xmit freq.
4880.000	50.8	PK	32.9	VHRN	34.3	4.4	236.0	1.5	53.8	74.0	-20.3	Mid Xmit freq.
4880.000	54.3	PK	32.9	HHRN	34.3	4.4	21.0	2.2	57.3	74.0	-16.8	Mid Xmit freq.
4960.000	49.8	PK	33.0	HHRN	34.3	4.5	236.0	2.0	53.0	74.0	-21.0	High Xmit freq.
4960.000	50.1	PK	33.0	VHRN	34.3	4.5	95.0	2.7	53.3	74.0	-20.7	High Xmit freq.
7320.000	56.2	PK	36.8	VHRN	31.8	5.9	64.0	2.3	67.1	74.0	-6.9	Mid Xmit freq.
7320.000	50.5	PK	36.8	HHRN	31.8	5.9	199.0	2.0	61.4	74.0	-12.6	Mid Xmit freq.
7440.000	50.9	PK	37.3	VHRN	31.4	5.9	227.0	1.5	62.7	74.0	-11.3	High Xmit freq.
7440.000	46.7	PK	37.3	HHRN	31.4	5.9	182.0	2.4	58.5	74.0	-15.6	High Xmit freq.

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

Rev 3.5  
01/11/01

EUT: <b>Intel(R) Personal Wireless Module</b>	Serial Number: <b>New Module #2 1/15/01</b>	Job Number: <b>INSC0011</b>	Date: <b>01/22/01</b>
Manufacturer: <b>Intel Corporation</b>	Test Engineer: <b>Rod Peloquin</b>	Job Site: <b>EV01</b>	
Customer Reference Number:	Software:	Power:	
Comments: <b>No hop, Antenna 'D'</b>			
		Temperature (°C): <b>18</b>	% Humidity: <b>34</b>

FCC 15.209 Average Radiated Emissions (3 meter limit)



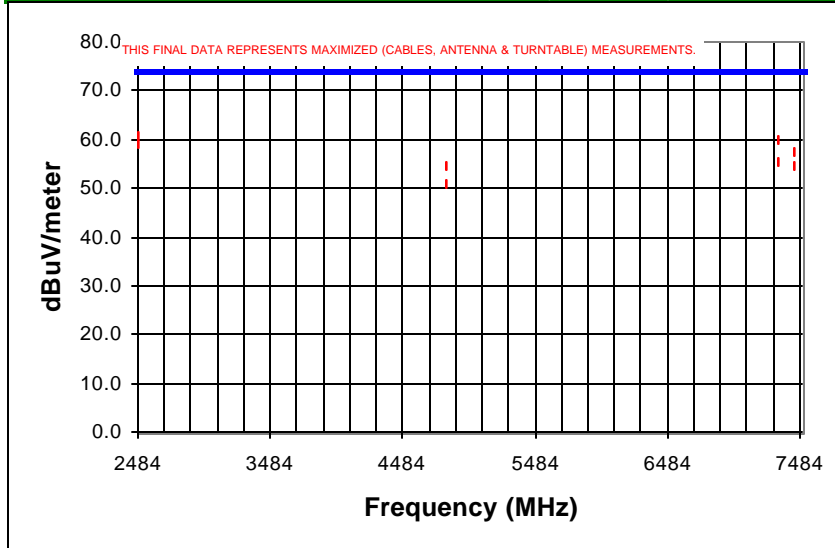
Frequency (MHz)	Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Polarity	Gain (dB)	Cable Loss (dB)	Azimuth (degrees)	Height (meters)	Adjusted Level (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)	Comment
2483.500	40.4	AV	27.9	VHRN	33.9	2.6	11.0	1.2	37.0	54.0	-17.0	High Xmit freq.
2483.500	41.5	AV	27.9	HHRN	33.9	2.6	277.0	2.2	38.1	54.0	-15.9	High Xmit freq.
4804.000	31.1	AV	32.8	HHRN	34.3	4.4	165.0	2.1	34.0	54.0	-20.1	Low Xmit freq.
4804.000	32.4	AV	32.8	VHRN	34.3	4.4	25.0	1.2	35.3	54.0	-18.7	Low Xmit freq.
7320.000	32.1	AV	36.8	VHRN	31.8	5.9	262.0	2.1	43.0	54.0	-11.1	Mid Xmit freq.
7320.000	29.9	AV	36.8	HHRN	31.8	5.9	58.0	1.8	40.8	54.0	-13.2	Mid Xmit freq.
7440.000	30.8	AV	37.3	VHRN	31.4	5.9	257.0	2.1	42.6	54.0	-11.4	High Xmit freq.
7440.000	29.0	AV	37.3	HHRN	31.4	5.9	164.0	1.9	40.8	54.0	-13.3	High Xmit freq.

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EUT: <b>Intel(R) Personal Wireless Module</b>	Serial Number: <b>New Module #2 1/15/01</b>	Job Number: <b>INSC0011</b>	Date: <b>01/22/01</b>
Manufacturer: <b>Intel Corporation</b>	Test Engineer: <b>Rod Peloquin</b>	Job Site: <b>EV01</b>	
Customer Reference Number:	Software:	Power:	
Comments: <b>No hop, Antenna 'D'</b>	Temperature (°C): <b>18</b>		% Humidity: <b>34</b>

FCC 15.209 Peak Radiated Emissions (3 meter limit)



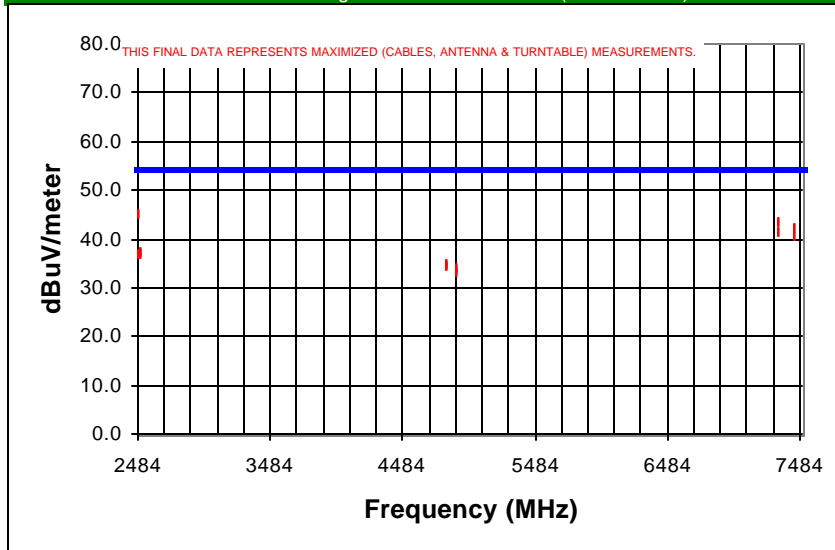
Frequency (MHz)	Reading (dBuV)	Detector	Antenna Factor (dB/m)	Antenna Polarity	Gain (dB)	Cable Loss (dB)	Azimuth (degrees)	Height (meters)	Antenna Adjusted Level (dBuV/m)	Spec. Limit (dBuV/m)	Margin (dB)	Comment
2483.500	64.1	PK	27.9	VHRN	33.9	2.6	11.0	1.2	60.7	74.0	-13.3	High Xmit freq.
2483.500	62.5	PK	27.9	HHRN	33.9	2.6	277.0	2.2	59.1	74.0	-14.9	High Xmit freq.
4804.000	47.9	PK	32.8	HHRN	34.3	4.4	165.0	2.1	50.8	74.0	-23.2	Low Xmit freq.
4804.000	51.6	PK	32.8	VHRN	34.3	4.4	25.0	1.2	54.5	74.0	-19.5	Low Xmit freq.
7320.000	49.1	PK	36.8	VHRN	31.8	5.9	262.0	2.1	60.0	74.0	-14.0	Mid Xmit freq.
7320.000	44.5	PK	36.8	HHRN	31.8	5.9	58.0	1.8	55.4	74.0	-18.7	Mid Xmit freq.
7440.000	45.7	PK	37.3	VHRN	31.4	5.9	257.0	2.1	57.5	74.0	-16.5	High Xmit freq.
7440.000	42.9	PK	37.3	HHRN	31.4	5.9	164.0	1.9	54.7	74.0	-19.4	High Xmit freq.

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

Rev 3.5  
01/11/01

EUT: <b>Intel(R) Personal Wireless Module</b>	Serial Number: <b>New module #2 1/15/01</b>	Job Number: <b>INSC0011</b>	Date: <b>01/23/01</b>
Manufacturer: <b>Intel Corporation</b>	Test Engineer: <b>Rod Peloquin</b>	Job Site: <b>EV01</b>	
Customer Reference Number:	Software:	Power:	
Comments: <b>No hop, Antenna 'E'</b>		Temperature (°C): <b>18</b>	% Humidity: <b>34</b>

**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	40.4	AV	27.9	VHRN	33.9	2.6	273.0	1.5	37.0	54.0	-17.0	High Xmit freq.
2483.500	48.6	AV	27.9	HHRN	33.9	2.6	78.0	2.3	45.2	54.0	-8.8	High Xmit freq.
2496.000	40.3	AV	27.9	HHRN	33.9	2.6	80.0	2.3	36.9	54.0	-17.2	High Xmit freq.
2496.000	40.9	AV	27.9	VHRN	33.9	2.6	82.0	1.9	37.5	54.0	-16.6	High Xmit freq.
4804.000	31.4	AV	32.8	VHRN	34.3	4.4	68.0	1.4	34.3	54.0	-19.7	Low Xmit freq.
4804.000	32.1	AV	32.8	HHRN	34.3	4.4	246.0	2.2	35.0	54.0	-19.0	Low Xmit freq.
4880.000	31.1	AV	32.9	VHRN	34.3	4.4	135.0	2.7	34.1	54.0	-19.9	Mid Xmit freq.
4880.000	30.4	AV	32.9	HHRN	34.3	4.4	254.0	2.0	33.4	54.0	-20.6	Mid Xmit freq.
7320.000	30.4	AV	36.8	HHRN	31.8	5.9	50.0	2.0	41.3	54.0	-12.7	Mid Xmit freq.
7320.000	32.4	AV	36.8	VHRN	31.8	5.9	265.0	2.2	43.3	54.0	-10.7	Mid Xmit freq.
7440.000	28.7	AV	37.3	HHRN	31.4	5.9	163.0	2.0	40.5	54.0	-13.6	High Xmit freq.
7440.000	30.4	AV	37.3	VHRN	31.4	5.9	265.0	2.2	42.2	54.0	-11.9	High Xmit freq.

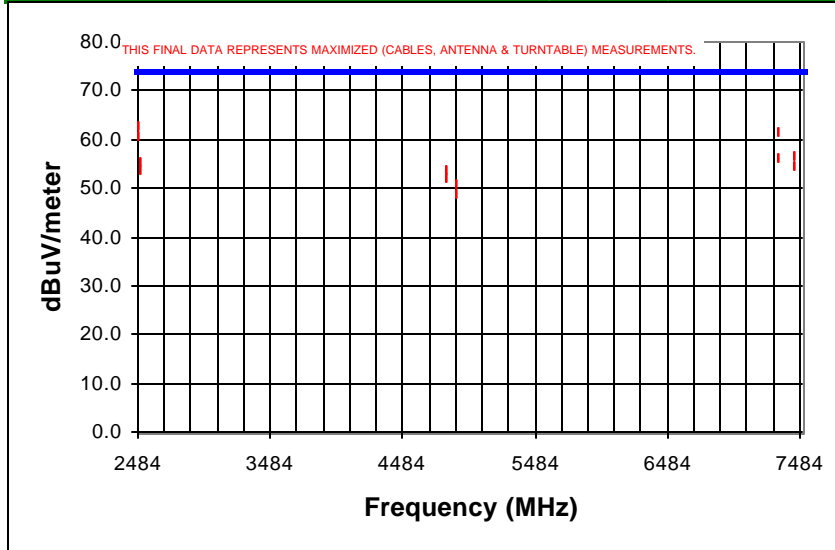


**Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets**

Rev 3.5  
01/11/01

EUT: <b>Intel(R) Personal Wireless Module</b>	Serial Number: <b>New module #2 1/15/01</b>	Job Number: <b>INSC0011</b>	Date: <b>01/23/01</b>
Manufacturer: <b>Intel Corporation</b>	Test Engineer: <b>Rod Peloquin</b>	Job Site: <b>EV01</b>	
Customer Reference Number:	Software:	Power:	
Comments: <b>No hop, Antenna 'E'</b>		Temperature (°C): <b>18</b>	% Humidity: <b>34</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	66.1	PK	27.9	VHRN	33.9	2.6	273.0	1.5	62.7	74.0	-11.4	High Xmit freq.
2483.500	64.1	PK	27.9	HHRN	33.9	2.6	78.0	2.3	60.7	74.0	-13.4	High Xmit freq.
2496.000	58.6	PK	27.9	VHRN	33.9	2.6	82.0	1.9	55.2	74.0	-18.8	High Xmit freq.
2496.000	57.0	PK	27.9	HHRN	33.9	2.6	80.0	2.3	53.6	74.0	-20.5	High Xmit freq.
4804.000	50.7	PK	32.8	HHRN	34.3	4.4	246.0	2.2	53.6	74.0	-20.4	Low Xmit freq.
4804.000	49.3	PK	32.8	VHRN	34.3	4.4	68.0	1.4	52.2	74.0	-21.8	Low Xmit freq.
4880.000	48.0	PK	32.9	VHRN	34.3	4.4	135.0	2.7	51.0	74.0	-23.1	Mid Xmit freq.
4880.000	45.9	PK	32.9	HHRN	34.3	4.4	254.0	2.0	48.9	74.0	-25.2	Mid Xmit freq.
7320.000	50.5	PK	36.8	VHRN	31.8	5.9	265.0	2.2	61.4	74.0	-12.7	Mid Xmit freq.
7320.000	45.3	PK	36.8	HHRN	31.8	5.9	50.0	2.0	56.2	74.0	-17.8	Mid Xmit freq.
7440.000	42.9	PK	37.3	HHRN	31.4	5.9	163.0	2.0	54.7	74.0	-19.3	High Xmit freq.
7440.000	44.8	PK	37.3	VHRN	31.4	5.9	265.0	2.2	56.6	74.0	-17.4	High Xmit freq.