

EXHIBIT L – Spurious Radiated Emissions Test Data  
Keyboard

FCC ID EJM123112960

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

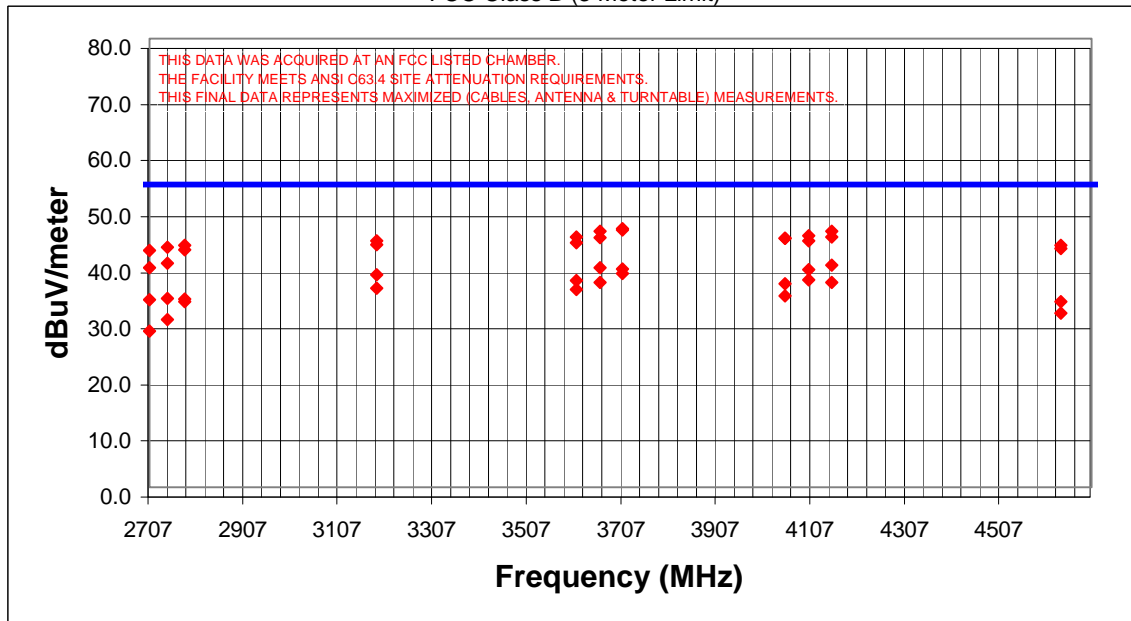
Rev 3.3  
10/09/99

EUT: <b>RF Device Module (Goose)</b>		Serial Number: <b>952L</b>	Job Number: <b>INTE4088</b>	Date: <b>05/26/00</b>
Manufacturer: <b>Intel Corporation</b>		Test Engineer: <b>Rod Peloquin</b>	Job Site: <b>EV01</b>	
Customer Reference Number:		Software:	Power:	
Comments: <b>Gamepad configuration. No hop transmit mode.</b>				
			Temperature (°C): <b>72</b>	% Humidity: <b>34</b>

### Test System


### Test Equipment


### 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)	Comment
3708.000	43.9	PK	32.1	HHRN	33.6	3.7	342.0	2.8	46.1	54.0	-8.0	high frequency
3708.000	43.7	PK	32.1	VHRN	33.6	3.7	58.0	1.4	45.9	54.0	-8.1	high frequency
3660.000	43.6	PK	32.0	HHRN	33.5	3.6	12.0	2.7	45.7	54.0	-8.3	mid frequency
4150.000	43.1	PK	32.6	HHRN	34.0	4.0	53.0	1.6	45.7	54.0	-8.3	high frequency
4102.000	42.3	PK	32.6	HHRN	34.0	4.0	56.0	1.7	44.9	54.0	-9.2	mid frequency
3610.000	42.5	PK	31.9	VHRN	33.4	3.6	63.0	1.7	44.6	54.0	-9.4	low frequency
4150.000	42.0	PK	32.6	VHRN	34.0	4.0	59.0	1.4	44.6	54.0	-9.4	high frequency
3660.000	42.4	PK	32.0	VHRN	33.5	3.6	334.0	1.5	44.5	54.0	-9.5	mid frequency
4052.000	41.8	PK	32.7	HHRN	33.9	3.9	182.0	2.6	44.5	54.0	-9.6	low frequency
4052.000	41.7	PK	32.7	VHRN	33.9	3.9	60.0	1.5	44.4	54.0	-9.6	low frequency
3187.000	43.2	PK	30.7	HHRN	33.3	3.4	60.0	1.6	44.0	54.0	-10.1	mid frequency
4102.000	41.3	PK	32.6	VHRN	34.0	4.0	92.0	1.5	43.9	54.0	-10.1	mid frequency
3610.000	41.5	PK	31.9	HHRN	33.4	3.6	87.0	1.6	43.6	54.0	-10.4	low frequency
3187.000	42.5	PK	30.7	VHRN	33.3	3.4	168.0	1.7	43.3	54.0	-10.8	mid frequency
2781.000	44.3	PK	29.1	VHRN	33.4	3.1	74.0	2.4	43.1	54.0	-10.9	high frequency
4635.000	40.6	PK	32.6	HHRN	34.4	4.3	331.0	2.2	43.1	54.0	-10.9	high frequency
2745.000	44.4	PK	28.9	VHRN	33.4	3.0	99.0	1.5	42.9	54.0	-11.2	mid frequency
4635.000	40.1	PK	32.6	VHRN	34.4	4.3	87.0	1.6	42.6	54.0	-11.4	high frequency
2781.000	43.5	PK	29.1	HHRN	33.4	3.1	176.0	3.8	42.3	54.0	-11.7	high frequency

2707.000	44.2	PK	28.7	VHRN	33.5	2.9	143.0	1.8	42.3	54.0	-11.8	low frequency
2745.000	41.5	PK	28.9	HHRN	33.4	3.0	26.0	1.4	40.0	54.0	-14.0	mid frequency
4150.000	37.0	AV	32.6	HHRN	34.0	4.0	53.0	1.6	39.6	54.0	-14.5	high frequency
3660.000	37.1	AV	32.0	HHRN	33.5	3.6	12.0	2.7	39.2	54.0	-14.8	mid frequency
2707.000	41.0	PK	28.7	HHRN	33.5	2.9	24.0	1.4	39.1	54.0	-14.9	low frequency
3708.000	36.8	AV	32.1	HHRN	33.6	3.7	342.0	2.8	39.0	54.0	-15.1	high frequency
4102.000	36.2	AV	32.6	HHRN	34.0	4.0	56.0	1.7	38.8	54.0	-15.3	mid frequency
3708.000	35.9	AV	32.1	VHRN	33.6	3.7	58.0	1.4	38.1	54.0	-15.9	high frequency
3187.000	37.1	AV	30.7	HHRN	33.3	3.4	60.0	1.6	37.9	54.0	-16.2	mid frequency
4102.000	34.4	AV	32.6	VHRN	34.0	4.0	92.0	1.5	37.0	54.0	-17.1	mid frequency
3610.000	34.8	AV	31.9	VHRN	33.4	3.6	63.0	1.7	36.9	54.0	-17.1	low frequency
3660.000	34.5	AV	32.0	VHRN	33.5	3.6	334.0	1.5	36.6	54.0	-17.5	mid frequency
4150.000	34.0	AV	32.6	VHRN	34.0	4.0	59.0	1.4	36.6	54.0	-17.5	high frequency
4052.000	33.6	AV	32.7	HHRN	33.9	3.9	182.0	2.6	36.3	54.0	-17.8	low frequency
3187.000	34.7	AV	30.7	VHRN	33.3	3.4	168.0	1.7	35.5	54.0	-18.5	mid frequency
3610.000	33.2	AV	31.9	HHRN	33.4	3.6	87.0	1.6	35.3	54.0	-18.8	low frequency
4052.000	31.5	AV	32.7	VHRN	33.9	3.9	60.0	1.5	34.2	54.0	-19.9	low frequency
2745.000	35.2	AV	28.9	VHRN	33.4	3.0	99.0	1.5	33.7	54.0	-20.3	mid frequency
2781.000	34.8	AV	29.1	VHRN	33.4	3.1	74.0	2.4	33.6	54.0	-20.5	high frequency
2707.000	35.3	AV	28.7	VHRN	33.5	2.9	143.0	1.8	33.4	54.0	-20.6	low frequency
2781.000	34.3	AV	29.1	HHRN	33.4	3.1	176.0	3.8	33.1	54.0	-20.9	high frequency
4635.000	30.6	AV	32.6	HHRN	34.4	4.3	331.0	2.2	33.1	54.0	-20.9	high frequency
4635.000	28.5	AV	32.6	VHRN	34.4	4.3	87.0	1.6	31.0	54.0	-23.0	high frequency
2745.000	31.4	AV	28.9	HHRN	33.4	3.0	26.0	1.4	29.9	54.0	-24.2	mid frequency
2707.000	29.8	AV	28.7	HHRN	33.5	2.9	24.0	1.4	27.9	54.0	-26.2	low frequency

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

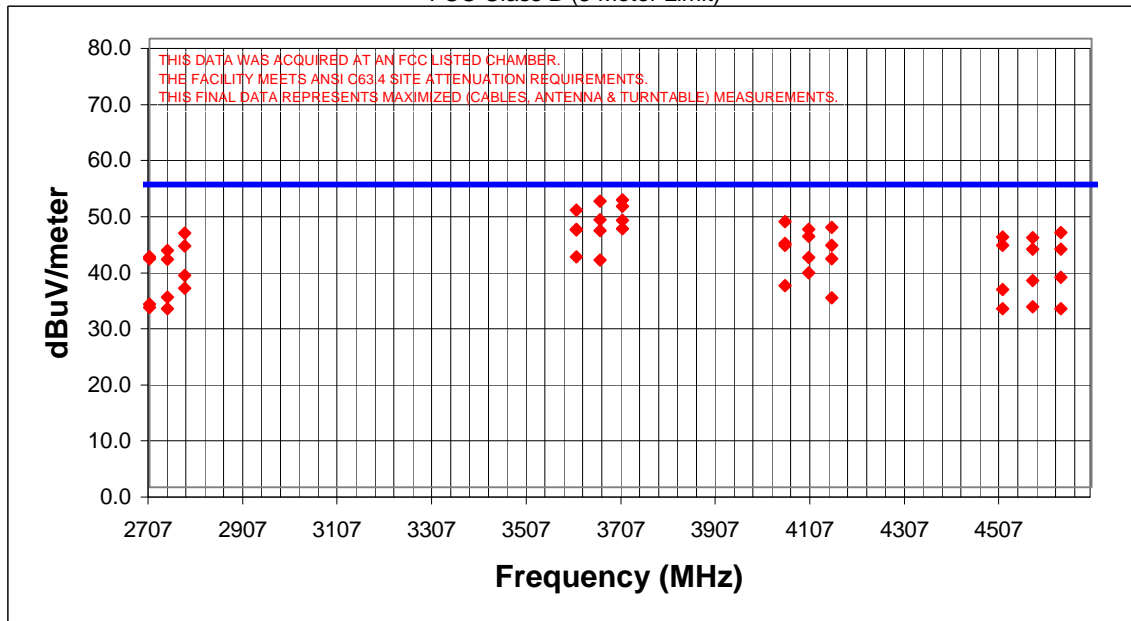
Rev 3.3  
10/09/99

EUT: <b>Split Rock RF device module</b>	Serial Number: <b>Keyboard (Keku)</b>	Job Number: <b>INTE4088</b>	Date: <b>05/24/00</b>
Manufacturer: <b>Intel</b>	Test Engineer: <b>Rod Peloquin</b>	Job Site: <b>EV01</b>	
Customer Reference Number:	Software:	Power:	
Comments: <b>No hop, transmit mode.</b>			
		Temperature (°C): <b>69</b>	% Humidity: <b>42</b>

### Test System


### Test Equipment


### 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)	Comment
3708.000	49.0	PK	32.1	HHRN	33.6	3.7	323.0	2.6	51.2	54.0	-2.8	high frequency
3660.000	48.9	PK	32.0	HHRN	33.5	3.6	23.0	2.8	51.0	54.0	-3.0	mid frequency
3708.000	47.9	PK	32.1	VHRN	33.6	3.7	250.0	1.7	50.1	54.0	-3.9	high frequency
3610.000	47.3	PK	31.9	HHRN	33.4	3.6	330.0	2.7	49.4	54.0	-4.6	low frequency
3660.000	45.7	AV	32.0	HHRN	33.5	3.6	23.0	2.8	47.8	54.0	-6.3	mid frequency
3708.000	45.4	AV	32.1	HHRN	33.6	3.7	323.0	2.6	47.6	54.0	-6.4	high frequency
4052.000	44.7	PK	32.7	HHRN	33.9	3.9	25.0	2.4	47.4	54.0	-6.6	low frequency
4150.000	43.8	PK	32.6	HHRN	34.0	4.0	20.0	1.6	46.4	54.0	-7.7	high frequency
3708.000	43.9	AV	32.1	VHRN	33.6	3.7	250.0	1.7	46.1	54.0	-7.9	high frequency
3610.000	43.9	AV	31.9	HHRN	33.4	3.6	330.0	2.7	46.0	54.0	-8.0	low frequency
4102.000	43.4	PK	32.6	HHRN	34.0	4.0	319.0	2.4	46.0	54.0	-8.0	mid frequency
3610.000	43.8	PK	31.9	VHRN	33.4	3.6	106.0	1.4	45.9	54.0	-8.2	low frequency
3660.000	43.7	PK	32.0	VHRN	33.5	3.6	108.0	1.6	45.8	54.0	-8.2	mid frequency
4635.000	42.9	PK	32.6	HHRN	34.4	4.3	316.0	2.3	45.4	54.0	-8.6	high frequency
2781.000	46.6	PK	29.1	VHRN	33.4	3.1	102.0	1.3	45.4	54.0	-8.7	high frequency
4102.000	42.1	PK	32.6	VHRN	34.0	4.0	257.0	1.5	44.7	54.0	-9.3	mid frequency
4512.000	42.3	PK	32.4	HHRN	34.3	4.2	315.0	2.3	44.6	54.0	-9.4	low frequency
4575.000	42.0	PK	32.5	HHRN	34.3	4.3	13.0	2.2	44.5	54.0	-9.5	mid frequency
4052.000	40.8	PK	32.7	VHRN	33.9	3.9	240.0	1.8	43.5	54.0	-10.5	low frequency

4052.000	40.4	AV	32.7	HHRN	33.9	3.9	25.0	2.4	43.1	54.0	-10.9	low frequency
4150.000	40.5	PK	32.6	VHRN	34.0	4.0	353.0	1.3	43.1	54.0	-10.9	high frequency
4512.000	40.8	PK	32.4	VHRN	34.3	4.2	290.0	1.6	43.1	54.0	-10.9	low frequency
2781.000	44.2	PK	29.1	HHRN	33.4	3.1	43.0	1.7	43.0	54.0	-11.0	high frequency
4575.000	40.0	PK	32.5	VHRN	34.3	4.3	92.0	1.4	42.5	54.0	-11.5	mid frequency
4635.000	40.0	PK	32.6	VHRN	34.4	4.3	171.0	1.4	42.5	54.0	-11.5	high frequency
2745.000	43.7	PK	28.9	VHRN	33.4	3.0	111.0	1.3	42.2	54.0	-11.8	mid frequency
2707.000	43.0	PK	28.7	HHRN	33.5	2.9	344.0	2.0	41.1	54.0	-12.9	low frequency
3610.000	39.0	AV	31.9	VHRN	33.4	3.6	106.0	1.4	41.1	54.0	-12.9	low frequency
4102.000	38.4	AV	32.6	HHRN	34.0	4.0	319.0	2.4	41.0	54.0	-13.1	mid frequency
4150.000	38.2	AV	32.6	HHRN	34.0	4.0	20.0	1.6	40.8	54.0	-13.3	high frequency
2707.000	42.6	PK	28.7	VHRN	33.5	2.9	275.0	1.2	40.7	54.0	-13.3	low frequency
2745.000	42.1	PK	28.9	HHRN	33.4	3.0	39.0	1.7	40.6	54.0	-13.4	mid frequency
3660.000	38.4	AV	32.0	VHRN	33.5	3.6	108.0	1.6	40.5	54.0	-13.5	mid frequency
4102.000	35.6	AV	32.6	VHRN	34.0	4.0	257.0	1.5	38.2	54.0	-15.8	mid frequency
2781.000	39.0	AV	29.1	VHRN	33.4	3.1	102.0	1.3	37.8	54.0	-16.2	high frequency
4635.000	34.9	AV	32.6	HHRN	34.4	4.3	316.0	2.3	37.4	54.0	-16.6	high frequency
4575.000	34.4	AV	32.5	HHRN	34.3	4.3	13.0	2.2	36.9	54.0	-17.2	mid frequency
4052.000	33.3	AV	32.7	VHRN	33.9	3.9	240.0	1.8	36.0	54.0	-18.1	low frequency
2781.000	36.7	AV	29.1	HHRN	33.4	3.1	43.0	1.7	35.5	54.0	-18.5	high frequency
4512.000	33.0	AV	32.4	HHRN	34.3	4.2	315.0	2.3	35.3	54.0	-18.8	low frequency
2745.000	35.5	AV	28.9	VHRN	33.4	3.0	111.0	1.3	34.0	54.0	-20.1	mid frequency
4150.000	31.2	AV	32.6	VHRN	34.0	4.0	353.0	1.3	33.8	54.0	-20.2	high frequency
2707.000	34.5	AV	28.7	HHRN	33.5	2.9	344.0	2.0	32.6	54.0	-21.4	low frequency
4575.000	29.7	AV	32.5	VHRN	34.3	4.3	92.0	1.4	32.2	54.0	-21.8	mid frequency
2707.000	34.0	AV	28.7	VHRN	33.5	2.9	275.0	1.2	32.1	54.0	-21.9	low frequency
4512.000	29.6	AV	32.4	VHRN	34.3	4.2	290.0	1.6	31.9	54.0	-22.2	low frequency
2745.000	33.3	AV	28.9	HHRN	33.4	3.0	39.0	1.7	31.8	54.0	-22.2	mid frequency
4635.000	29.3	AV	32.6	VHRN	34.4	4.3	171.0	1.4	31.8	54.0	-22.2	high frequency

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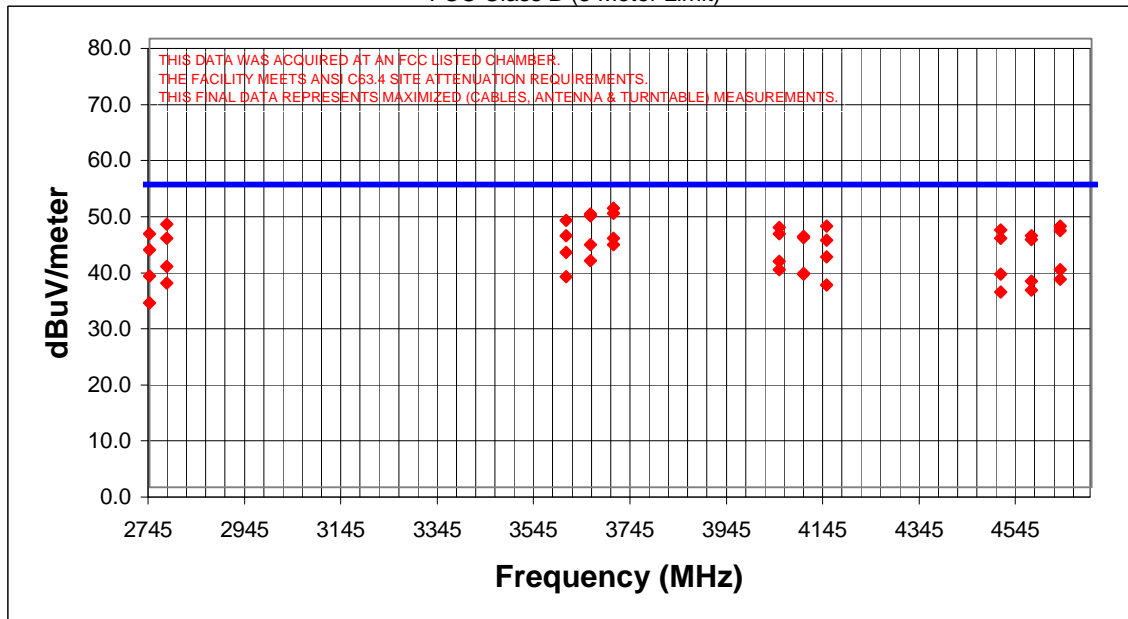
Rev 3.3  
10/09/99

EUT: <b>Split Rock RF device module</b>	Serial Number: <b>D3</b>	Job Number: <b>INTE4088</b>	Date: <b>05/23/00</b>
Manufacturer: <b>Intel</b>	Test Engineer: <b>Rod Peloquin</b>	Job Site: <b>EV01</b>	
Customer Reference Number:	Software:	Power:	
Comments: <b>Mouse No hop, transmit mode.</b>			
		Temperature (°C): <b>69</b>	% Humidity: <b>42</b>

Test System


Test Equipment


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)	Comment
3708.000	47.6	PK	32.1	HHRN	33.6	3.7	278.0	2.9	49.8	54.0	-4.2	high frequency
3708.000	46.7	PK	32.1	VHRN	33.6	3.7	117.0	1.6	48.9	54.0	-5.1	high frequency
3660.000	46.7	PK	32.0	VHRN	33.5	3.6	99.0	2.0	48.8	54.0	-5.3	mid frequency
3660.000	46.3	PK	32.0	HHRN	33.5	3.6	294.0	1.2	48.4	54.0	-5.7	mid frequency
3610.000	45.5	PK	31.9	HHRN	33.4	3.6	297.0	1.4	47.6	54.0	-6.4	low frequency
2781.000	48.1	PK	29.1	HHRN	33.4	3.1	85.0	2.0	46.9	54.0	-7.1	high frequency
4150.000	44.0	PK	32.6	VHRN	34.0	4.0	-1.0	1.4	46.6	54.0	-7.4	high frequency
4635.000	44.1	PK	32.6	HHRN	34.4	4.3	270.0	2.3	46.6	54.0	-7.4	high frequency
4052.000	43.6	PK	32.7	HHRN	33.9	3.9	176.0	2.4	46.3	54.0	-7.7	low frequency
4512.000	43.6	PK	32.4	HHRN	34.3	4.2	272.0	2.2	45.9	54.0	-8.1	low frequency
4635.000	43.3	PK	32.6	VHRN	34.4	4.3	334.0	1.4	45.8	54.0	-8.2	high frequency
2745.000	46.7	PK	28.9	HHRN	33.4	3.0	113.0	2.0	45.2	54.0	-8.8	mid frequency
4052.000	42.5	PK	32.7	VHRN	33.9	3.9	138.0	1.2	45.2	54.0	-8.8	low frequency
3610.000	42.7	PK	31.9	VHRN	33.4	3.6	18.0	1.1	44.8	54.0	-9.2	low frequency
4575.000	42.3	PK	32.5	HHRN	34.3	4.3	275.0	2.4	44.8	54.0	-9.2	mid frequency
4102.000	42.1	PK	32.6	VHRN	34.0	4.0	140.0	1.2	44.7	54.0	-9.3	mid frequency
4102.000	41.9	PK	32.6	HHRN	34.0	4.0	176.0	2.4	44.5	54.0	-9.5	mid frequency
2781.000	45.6	PK	29.1	VHRN	33.4	3.1	44.0	1.0	44.4	54.0	-9.6	high frequency
3708.000	42.2	AV	32.1	HHRN	33.6	3.7	278.0	2.9	44.4	54.0	-9.6	high frequency

4512.000	42.1	PK	32.4	VHRN	34.3	4.2	279.0	1.7	44.4	54.0	-9.6	low frequency
4575.000	41.7	PK	32.5	VHRN	34.3	4.3	345.0	2.0	44.2	54.0	-9.9	mid frequency
4150.000	41.5	PK	32.6	HHRN	34.0	4.0	114.0	1.4	44.1	54.0	-9.9	high frequency
3660.000	41.2	AV	32.0	HHRN	33.5	3.6	294.0	1.2	43.3	54.0	-10.7	mid frequency
3708.000	41.1	AV	32.1	VHRN	33.6	3.7	117.0	1.6	43.3	54.0	-10.7	high frequency
2745.000	43.8	PK	28.9	VHRN	33.4	3.0	130.0	1.2	42.3	54.0	-11.7	mid frequency
3610.000	39.8	AV	31.9	HHRN	33.4	3.6	297.0	1.4	41.9	54.0	-12.1	low frequency
4150.000	38.5	AV	32.6	VHRN	34.0	4.0	-1.0	1.4	41.1	54.0	-13.0	high frequency
3660.000	38.3	AV	32.0	VHRN	33.5	3.6	99.0	2.0	40.4	54.0	-13.6	mid frequency
4052.000	37.6	AV	32.7	HHRN	33.9	3.9	176.0	2.4	40.3	54.0	-13.7	low frequency
2781.000	40.6	AV	29.1	HHRN	33.4	3.1	85.0	2.0	39.4	54.0	-14.6	high frequency
4052.000	36.2	AV	32.7	VHRN	33.9	3.9	138.0	1.2	38.9	54.0	-15.2	low frequency
4635.000	36.3	AV	32.6	HHRN	34.4	4.3	270.0	2.3	38.8	54.0	-15.3	high frequency
4102.000	35.5	AV	32.6	VHRN	34.0	4.0	140.0	1.2	38.1	54.0	-15.9	mid frequency
4102.000	35.5	AV	32.6	HHRN	34.0	4.0	176.0	2.4	38.1	54.0	-16.0	mid frequency
4512.000	35.8	AV	32.4	HHRN	34.3	4.2	272.0	2.2	38.1	54.0	-16.0	low frequency
2745.000	39.2	AV	28.9	HHRN	33.4	3.0	113.0	2.0	37.7	54.0	-16.3	mid frequency
3610.000	35.5	AV	31.9	VHRN	33.4	3.6	18.0	1.1	37.6	54.0	-16.5	low frequency
4635.000	34.6	AV	32.6	VHRN	34.4	4.3	334.0	1.4	37.1	54.0	-17.0	high frequency
4575.000	34.2	AV	32.5	HHRN	34.3	4.3	275.0	2.4	36.7	54.0	-17.3	mid frequency
2781.000	37.6	AV	29.1	VHRN	33.4	3.1	44.0	1.0	36.4	54.0	-17.6	high frequency
4150.000	33.5	AV	32.6	HHRN	34.0	4.0	114.0	1.4	36.1	54.0	-18.0	high frequency
4575.000	32.6	AV	32.5	VHRN	34.3	4.3	345.0	2.0	35.1	54.0	-18.9	mid frequency
4512.000	32.5	AV	32.4	VHRN	34.3	4.2	279.0	1.7	34.8	54.0	-19.2	low frequency
2745.000	34.4	AV	28.9	VHRN	33.4	3.0	130.0	1.2	32.9	54.0	-21.1	mid frequency