

**RADIATED EMISSIONS**

**DATA**

**FOR**

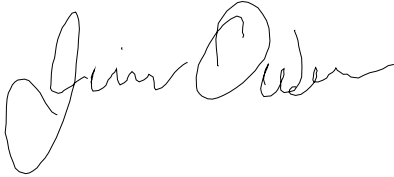
**KYOCERA WIRELESS**  
**10300 Campus Point Drive**  
**San Diego, CA 92121**

**Prepared by**

**TÜV AMERICA**  
**10040 Mesa Rim Road**  
**San Diego, CA 92121-2912**

Measurement Requirements (CFR 47 Part 15, Paragraph 15.109(a); Part 22, Paragraph 22.917(b)(2); and Part 24, Paragraph 24.238(a))

The following measurements were performed by TÜV America. To the best of my knowledge these tests were conducted in accordance with the procedures outlined in Part 2 of the Commission's Rules and Regulations. The data presented below demonstrates compliance with the appropriate technical standards.

A handwritten signature in black ink, appearing to read 'Jim Owen', written in a cursive style.

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Jim Owen  
EMC Manager

**Emissions Test Conditions: SPURIOUS RADIATED EMISSIONS**

Roof (small open area test site)

The <i>Spurious Radiated Emissions</i> measurements were performed using the following equipment:
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**Test Equipment Used:**

<b>Model No.</b>	<b>Prop. No.</b>	<b>Description</b>	<b>Manufacturer</b>	<b>Serial No.</b>	<b>Date Cal'ed</b>
HP-8566B	6488	Spectrum Analyzer	Hewlett Packard	2618A02913	12/02
3115	251	Antenna, Horn	Electro Mechanics Co	2595	12/02
FF6549-1	778	900 MHz High Pass Filter	Sage	005	NCR*
FF6549-2	783	2000 MHz High Pass Filter	Sage	008	NCR*
AMF-5D-010180-35-10P	719	PreAmp	TUV America	549460	NCR*
85662A	406	Spectrum Analyzer	Hewlett Packard	2309A04682	05/03
CBL6111	460	Bilog Antenna	Chase Electronics	1013	NCR*

**Remarks:** One year calibration cycle for all test equipment and sites. (\*) No Calibration Required.

**Technical Documentation**

**Test Data Sheets**

**and**

**Test Setups**













REPORT No: SC305046      TESTER: Alan Laudani      SPEC: FCC Part 15 para 15.109(a)  
 CUSTOMER: Kyocera Wireless      TEST DIST: 3 Meters  
 E U T: SE44      TEST SITE: Roof  
 EUT MODE: Receive PCS with retracted antenna      BICONICAL: N/A  
 DATE: Nov. 5, 2003      LOG: N/A  
 NOTES: OTHER: 251  
 above 1GHz: RBW & VBW 1 MHz for Pk; RBW 1MHz and VBW 10Hz for AVG  
 No emissions detected between 30 MHz and 1000 MHz.  
 CF = Antenna Factor + Cable Loss - Preampifier Gain

FREQ (MHz)	VERTICAL (dBuV)		HORIZONTAL (dBuV)		CF (dBm)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Rotation	Antenna Height	Notes
	pk	av	pk	av		pk	av	pk	av	pk	av			
2114.85	63.5	48.8	67	52.4	-6.27	60.7	46.1	74	54	-13.3	-7.87		1	noise level
4229.7	46	34.9	45.9	34.8	-0.06	45.9	34.8	74	54	-28.1	-19.2		1	noise level
6344.55	48.6	36.7	48.2	36.8	5.49	54.1	42.3	74	54	-19.9	-11.7		1	noise level
8459.4	47.3	36.6	48.5	36.6	9.91	58.4	46.5	74	54	-15.6	-7.49		1	noise level
10574.25	48.9	35.4	46.3	35.4	12.33	59.2	47.7	74	54	-14.8	-6.3		1	noise level
2143.6	47.2	35	46.5	35.2	-6.14	41.1	29.1	74	54	-32.9	-24.9		1	noise level
4287.2	46.9	35	46.7	35	-0.17	46.7	34.8	74	54	-27.3	-19.2		1	noise level
6430.8	47.8	36.3	47.3	36.3	5.44	53.2	41.7	74	54	-20.8	-12.3		1	noise level
8574.4	47.7	36.8	47.5	36.8	10.16	57.9	47.0	74	54	-16.1	-7.04		1	noise level
10718	47.7	35.6	47.1	35.7	12.59	60.3	48.3	74	54	-13.7	-5.71		1	noise level
2172.35	46.3	35.5	46.5	35.2	-6.01	40.5	29.5	74	54	-33.5	-24.5		1	noise level
4344.7	46	35.2	46.3	35.2	-0.29	46.0	34.9	74	54	-28	-19.1		1	noise level
6517.05	47.8	36.3	47.3	36.2	5.46	53.3	41.8	74	54	-20.7	-12.2		1	noise level
8689.4	47.5	36.5	48.4	36.5	10.42	58.8	46.9	74	54	-15.2	-7.08		1	noise level
10861.75	46.1	35	45.7	35.1	12.85	59.0	48.0	74	54	-15	-6.05		1	noise level

REPORT No. SC305046 TESTER: Alan Laudani SPEC: FCC Part 22 para 22.917(b)(2)  
 CUSTOMER: Kyocera Wireless TEST DIST: 3 Meters  
 EUT: SE44 TEST SITE: Roof  
 EUT MODE: CDMA transmit antenna extended BICONICAL: N/A  
 DATE: 4-Nov-2003 ERP Factor 7 LOG: N/A  
 NOTES: HORN: 251

Part 22 - RBW & VBW 1MHz  
 CF = Antenna Factor + Cable Loss - Pre-amplifier Gain  
 v.belata

FREQ (MHz)	VERTICAL (dBuv) pk	HORIZONTAL (dBuv) pk	HORIZONTAL CF (dBm) pk	MAX LEVEL (dBm) pk	SPEC LIMIT (dBm) pk	MARGIN (dB) pk	EUT Rotation	Antenna Height	Notes
824.7							0	1	Fundamental (Low Band)
1649.4	49.4	47.7	-9.3	-57.2	-13.0	-44.2		1	
2474.1	44.1	41.8	-4.7	-58.0	-13.0	-45		1	noise level
3298.8	44.6	44.5	-2.4	-55.1	-13.0	-42.1		1	noise level
4123.5	45.7	45.7	-0.7	-52.3	-13.0	-39.3		1	noise level
4948.2	45.7	46	0.1	-51.2	-13.0	-38.2		1	noise level
5772.9	45.1	48.4	4.9	-44.0	-13.0	-31		1	noise level
6597.6	48.3	48.4	5.7	-43.3	-13.0	-30.3		1	noise level
7422.3	47.3	47.2	8.2	-41.8	-13.0	-28.8		1	noise level
8247	47.6	48.1	9.2	-40.1	-13.0	-27.1		1	noise level
836.49									Fundamental (Mid Band)
1672.98	47	47.6	-9.1	-58.8	-13.0	-45.8	0	1	
2509.47	51.4	47.7	-4.6	-50.5	-13.0	-37.5		1	noise level
3345.96	44.8	44.8	-2.2	-54.8	-13.0	-41.8		1	noise level
4182.45	46.1	46.3	-0.8	-51.8	-13.0	-38.8		1	noise level
5018.94	46.7	45.5	0.4	-51.2	-13.0	-38.2		1	noise level
5855.43	48	48.2	5.2	-44.0	-13.0	-31		1	noise level
6691.92	47.8	47.5	6.0	-43.5	-13.0	-30.5		1	noise level
7528.41	47.2	47.4	8.4	-41.5	-13.0	-28.5		1	noise level
8364.9	48.2	48.4	9.4	-39.5	-13.0	-26.5		1	noise level
848.31									Fundamental (High Band)
1696.62	49.5	47.7	-8.9	-56.8	-13.0	-43.8		1	
2544.93	50.3	50.4	-4.5	-51.4	-13.0	-38.4		1	noise level
3393.24	45.3	46.5	-2.1	-53.0	-13.0	-40		1	noise level
4241.55	47	47.3	-0.8	-50.9	-13.0	-37.9		1	noise level
5089.86	44.8	46.1	1.0	-50.3	-13.0	-37.3		1	noise level
5938.17	48.5	48.4	5.4	-43.4	-13.0	-30.4		1	noise level
6786.48	47	47.4	6.4	-43.6	-13.0	-30.6		1	noise level
7634.79	46.9	46.9	8.5	-42.0	-13.0	-29		1	noise level
8483.1	47.4	47.5	9.7	-40.2	-13.0	-27.2		1	noise level

REPORT No: SC305046 TESTER: Alan Laudani SPEC: FCC Part 22 para 22.917(b)(2)  
 CUSTOMER: Kyocera Wireless TEST DIST: 3 Meters  
 E U T: SE44 TEST SITE: Roof  
 EUT MODE: CDMA transmit antenna retracted BICONICAL: N/A  
 DATE: 4-Nov-2003 ERP Factor 7 LOG: N/A  
 NOTES: Part 22 - RBW & VBW 1MHz HORN: 251

CF = Antenna Factor + Cable Loss - Preamplifier Gain

FREQ (MHz)	VERTICAL (dBuV) pk	HORIZONTAL (dBuV) pk	HORIZONTAL CF (dB/m) pk	MAX LEVEL (dBm) pk	SPEC LIMIT (dBm) pk	MARGIN (dB) pk	EUT Rotation	Antenna Height	Notes
824.7									Fundamental (Low Band)
1649.4	49	49.7	-9.3	-56.9	-13.0	-43.9	23	1.1	
2474.1	44	41.6	-4.7	-58.1	-13.0	-45.1		1	noise level
3298.8	44.9	44.5	-2.4	-54.8	-13.0	-41.8		1	noise level
4123.5	45.2	46	-0.7	-52.0	-13.0	-39		1	noise level
4948.2	44.9	46.1	0.1	-51.1	-13.0	-38.1		1	noise level
5772.9	44.7	45.1	4.9	-47.3	-13.0	-34.3		1	noise level
6597.6	43.5	46.3	5.7	-45.4	-13.0	-32.4		1	noise level
7422.3	47.6	47.6	8.2	-41.5	-13.0	-28.5		1	noise level
8247	47.1	46.4	9.2	-41.1	-13.0	-28.1		1	noise level
836.49									Fundamental (Mid Band)
1672.98	46.8	46.4	-9.1	-59.6	-13.0	-46.6		1	noise level
2509.47	52.8	46.6	-4.6	-49.1	-13.0	-36.1		1	noise level
3345.96	44.6	44.7	-2.2	-54.9	-13.0	-41.9		1	noise level
4182.45	46.4	46.1	-0.8	-51.7	-13.0	-38.7		1	noise level
5018.94	45.1	44.4	0.4	-51.8	-13.0	-38.8		1	noise level
5855.43	47.9	48.7	5.2	-43.5	-13.0	-30.5		1	noise level
6691.92	46.5	47.6	6.0	-43.7	-13.0	-30.7		1	noise level
7528.41	46.7	47.2	8.4	-41.7	-13.0	-28.7		1	noise level
8364.9	47.5	48.1	9.4	-39.8	-13.0	-26.8		1	noise level
848.31									Fundamental (High Band)
1696.62	46.9	46	-8.9	-59.4	-13.0	-46.4		1	
2544.93	47.6	50.6	-4.5	-51.2	-13.0	-38.2		1	
3393.24	44.2	45.9	-2.1	-53.6	-13.0	-40.6		1	noise level
4241.55	46	45.6	-0.8	-52.2	-13.0	-39.2		1	noise level
5089.86	45.4	45.9	1.0	-50.5	-13.0	-37.5		1	noise level
5938.17	48.3	48	5.4	-43.6	-13.0	-30.6		1	noise level
6786.48	47.3	46.9	6.4	-43.7	-13.0	-30.7		1	noise level
7634.79	47	47.3	8.5	-41.6	-13.0	-28.6		1	noise level
8483.1	48.2	46.8	9.7	-39.5	-13.0	-26.5		1	noise level

REPORT No: SC305235    TESTER: Alan Laudani    KY    SPEC: FCC Part 22 para 22.917(b)(2)  
 CUSTOMER: Kyocera Wireless    TEST DIST: 3 Meters  
 E U T: SE44    TEST SITE: Roof  
 EUT MODE: FM transmit with extended antenna    BICONICAL: N/A  
 DATE: 19-Nov-2003    ERP Factor: 7    LOG: N/A  
 NOTES: HORN: 251

Part 22 - RBW & YBW 1MHz  
 CF = Antenna Factor + Cable Loss - Pre-amplifier Gain

FREQ (MHz)	VERTICAL (dBuv) pk	HORIZONTAL (dBuv) pk	CF (dBm) pk	MAX LEVEL (dBm) pk	SPEC LIMIT (dBm) pk	MARGIN (dB) pk	EUT Rotation	Antenna Height	Notes
824.04									Fundamental (Low Band)
1648.08	50.8	48.9	-9.3	-55.8	-13.0	-42.8	5	1	
2472.12	47	44.6	-4.7	-55.1	-13.0	-42.1	295	1	
3296.16	46.1	46.1	-2.4	-53.6	-13.0	-40.6	1	1	noise level
4120.2	49	47	-0.7	-49.0	-13.0	-36	207	1	
4944.24	46.1	46.5	0.1	-50.7	-13.0	-37.7	1	1	noise level
5768.28	44.7	46.2	4.9	-46.3	-13.0	-33.3	1	1	noise level
6592.32	45.2	46.7	5.7	-45.0	-13.0	-32	1	1	noise level
7416.36	48.8	48.2	8.2	-40.4	-13.0	-27.4	1	1	noise level
8240.4	47.7	48.2	9.2	-40.0	-13.0	-27	1	1	noise level
836.49									Fundamental (Mid Band)
1672.98	47.5	46.8	-9.1	-58.9	-13.0	-45.9	5	1	
2509.47	56.5	48.1	-4.6	-45.4	-13.0	-32.4	295	1	
3345.96	45.3	46.2	-2.2	-53.4	-13.0	-40.4	1	1	noise level
4182.45	46.1	46.4	-0.8	-51.7	-13.0	-38.7	1	1	noise level
5018.94	45.4	45.5	0.4	-51.4	-13.0	-38.4	1	1	noise level
5855.43	48.7	48	5.2	-43.5	-13.0	-30.5	1	1	noise level
6691.92	47.7	47.1	6.0	-43.6	-13.0	-30.6	1	1	noise level
7528.41	48.2	47	8.4	-40.7	-13.0	-27.7	1	1	noise level
8364.9	49.2	47.7	9.4	-38.7	-13.0	-25.7	1	1	noise level
848.97			0.0						Fundamental (High Band)
1697.94	51.7	48.4	-8.9	-54.6	-13.0	-41.6	7	1	
2546.91	48.7	46.8	-4.5	-53.1	-13.0	-40.1	3	1	
3395.88	45.5	46	-2.1	-53.5	-13.0	-40.5	1	1	noise level
4244.85	46	46.5	-0.8	-51.7	-13.0	-38.7	1	1	noise level
5093.82	45.3	45.2	1.0	-51.0	-13.0	-38	1	1	noise level
5942.79	47.9	49	5.4	-42.9	-13.0	-29.9	1	1	noise level
6791.76	48.1	48	6.4	-42.9	-13.0	-29.9	1	1	noise level
7640.73	47.1	47	8.5	-41.8	-13.0	-28.8	1	1	noise level
8489.7	47.6	47.5	9.7	-40.1	-13.0	-27.1	1	1	noise level

REPORT No: SC305235 TESTER: Alan Laudani SPEC: FCC Part 22 para 22.917(b)(2)  
 CUSTOMER: Kyocera Wireless TEST DIST: 3 Meters  
 E U T: SE44 TEST SITE: Roof  
 EUT MODE: FM transmit with retracted antenna BICONICAL: N/A  
 DATE: 19-Nov-2003 ERP Factor 7 LOG: N/A  
 NOTES: HORN: 251

Part 22 - RBW & VBW 1MHz  
 CF = Antenna Factor + Cable Loss - Preamplifier Gain

FREQ (MHz)	VERTICAL (dBuv) pk		HORIZONTAL (dBuv) pk	CF (dB/m)	MAX LEVEL (dBm) pk	SPEC LIMIT (dBm) pk	MARGIN (dB) pk	EUT Rotation	Antenna Height	Notes
	pk	pk								
824.04										
1648.08	51.6	-55.0	48	-9.3	-55.0	-13.0	-42	5	1	Fundamental (Low Band)
2472.12	42.8	-58.1	44	-4.7	-58.1	-13.0	-45.1		1	noise level
3296.16	45.1	-54.1	45.6	-2.4	-54.1	-13.0	-41.1		1	noise level
4120.24	46.4	-51.4	46.6	-0.7	-51.4	-13.0	-38.4		1	noise level
4944.24	45.7	-50.2	47	0.1	-50.2	-13.0	-37.2		1	noise level
5768.28	44.6	-45.9	46.6	4.9	-45.9	-13.0	-32.9		1	noise level
6592.32	44	-45.6	46.1	5.7	-45.6	-13.0	-32.6		1	noise level
7416.36	47.3	-41.5	47.7	8.2	-41.5	-13.0	-28.5		1	noise level
8240.4	46.7	-41.5	46.4	9.2	-41.5	-13.0	-28.5		1	noise level
836.49										
1672.98	48	-57.2	49.2	-9.1	-57.2	-13.0	-44.2	175	1	Fundamental (Mid Band)
2509.47	51.3	-50.6	49.6	-4.6	-50.6	-13.0	-37.6	238	1	
3345.96	45	-54.2	45.4	-2.2	-54.2	-13.0	-41.2		1	noise level
4182.45	46.9	-49.4	48.7	-0.8	-49.4	-13.0	-36.4	175	1	
5018.94	45.7	-51.2	45.7	0.4	-51.2	-13.0	-38.2		1	noise level
5855.43	48.3	-43.8	48.4	5.2	-43.8	-13.0	-30.8		1	noise level
6691.92	47.3	-43.6	47.7	6.0	-43.6	-13.0	-30.6		1	noise level
7528.41	48	-40.9	47.7	8.4	-40.9	-13.0	-27.9		1	noise level
8364.9	47.9	-40.0	47.4	9.4	-40.0	-13.0	-27		1	noise level
848.97				0.0						
1697.94	48.8	-57.2	49.1	-8.9	-57.2	-13.0	-44.2	24	1	Fundamental (High Band)
2546.91	48.4	-53.4	46.3	-4.5	-53.4	-13.0	-40.4		1	noise level
3395.88	45.8	-53.7	45.8	-2.1	-53.7	-13.0	-40.7		1	noise level
4244.85	48.7	-49.5	47.1	-0.8	-49.5	-13.0	-36.5		1	noise level
5093.82	45.2	-51.0	45.3	1.0	-51.0	-13.0	-38		1	noise level
5942.79	48.4	-43.0	48.9	5.4	-43.0	-13.0	-30		1	noise level
6791.76	47.6	-43.3	47.6	6.4	-43.3	-13.0	-30.3		1	noise level
7640.73	47.6	-41.2	47.7	8.5	-41.2	-13.0	-28.2		1	noise level
8489.7	47.7	-40.0	47.4	9.7	-40.0	-13.0	-27		1	noise level

REPORT No: SC305046    TESTER: Alan Laudani    SPEC: FCC Part 24 para 24.238(a)  
 CUSTOMER: Kyocera Wireless    TEST DIST: 3 Meters  
 E U T: SE44    TEST SITE: Roof  
 EUT MODE: PCS Transmit antenna extended    BICONICAL: N/A  
 DATE: Nov. 4, 2003    EIRP Factor 5.5    LOG: N/A  
 NOTES:    HORN: 251

Part 24 - RBW 1 MHz  
 CF = Antenna Factor + Cable Loss - Pre-amplifier Gain

FREQ (MHz)	VERTICAL (dBuv) pk	HORIZONTAL (dBuv) pk	HORIZONTAL CF (dBm) pk	MAX LEVEL (dBm) pk	SPEC LIMIT (dBm) pk	MARGIN (dB) pk	EUT Rotation	Antenna Height	Notes
1851.25									Fundamental (Low Band)
3702.5	59	56.4	-1.4	-37.6	-13.0	-24.6	205	1.6	
5653.75	55	54.3	3.2	-37.0	-13.0	-24	160	1.1	
7405	48.1	49.1	6.6	-39.6	-13.0	-26.6		1	noise level
9256.25	47.8	48.5	8.6	-38.2	-13.0	-25.2		1	noise level
11107.5	45.7	46	11.0	-38.3	-13.0	-25.3		1	noise level
12958.75	50.6	50.3	10.7	-33.9	-13.0	-20.9		1	noise level
14810	49.8	50	13.9	-31.3	-13.0	-18.3		1	noise level
16661.25	50.2	50.3	15.8	-29.1	-13.0	-16.1		1	noise level
1880									Fundamental (Mid Band)
3760	58.8	56.5	-1.2	-37.7	-13.0	-24.7	229	1	
5640	49.4	50.4	3.5	-41.4	-13.0	-28.4	148	1.1	
7520	47.2	46.7	6.8	-41.2	-13.0	-28.2		1	noise level
9400	47.5	48	8.1	-39.1	-13.0	-26.1		1	noise level
11280	45.6	46.4	11.1	-37.8	-13.0	-24.8		1	noise level
13160	51.7	51	11.2	-32.4	-13.0	-19.4		1	noise level
15040	51.5	50.5	14.8	-28.9	-13.0	-15.9		1	noise level
16920	49.2	49.4	16.6	-29.2	-13.0	-16.2		1	noise level
1908.75									Fundamental (High Band)
3817.5	58.6	54.6	-8.1	-37.7	-13.0	-24.7	20	1.4	
5726.25	51.4	49.3	3.7	-40.2	-13.0	-27.2	2	1.3	
7635	51.2	48.6	6.9	-37.1	-13.0	-24.1	272	1	noise level
9543.75	48.3	47.9	7.9	-39.1	-13.0	-26.1		1	noise level
11452.5	45.4	45.9	11.2	-38.2	-13.0	-25.2		1	noise level
13361.25	51	49.9	11.9	-32.4	-13.0	-19.4		1	noise level
15270	49.7	49.9	15.1	-30.3	-13.0	-17.3		1	noise level
17178.75	49.9	50.4	18.2	-26.6	-13.0	-13.6		1	noise level

v.beta.eta

REPORT No: SC305046    TESTER: Alan Laudani    SPEC: FCC Part 24 para 24.238(a)  
 CUSTOMER: Kyocera Wireless    TEST DIST: 3 Meters  
 E U T: SE44    TEST SITE: Roof  
 EUT MODE: PCS Transmit antenna retracted    BICONICAL: N/A  
 DATE: Nov. 4, 2003    EIRP Factor: 5.5    LOG: N/A  
 NOTES:    HORN: 251

FREQ (MHz)	VERTICAL (dBuv) pk	HORIZONTAL (dBuv) pk	CF (dBm) pk	MAX LEVEL (dBm) pk	SPEC LIMIT (dBm) pk	MARGIN (dB) pk	EUT Rotation	Antenna Height	Notes
1851.25									
3702.5	59.9	55.8	-1.4	-36.7	-13.0	-23.7	212	1.2	Fundamental (Low Band)
5553.75	53.2	50	3.2	-38.8	-13.0	-25.8	195	1	
7405	47.5	47.7	6.6	-41.0	-13.0	-28			noise level
9256.25	48.1	48.1	8.6	-38.6	-13.0	-25.6			noise level
11107.5	46.2	46	11.0	-38.1	-13.0	-25.1			noise level
12958.75	51.7	50	10.7	-32.8	-13.0	-19.8			noise level
14810	51	49.8	13.9	-30.3	-13.0	-17.3			noise level
16661.25	49.8	50	15.8	-29.4	-13.0	-16.4			noise level
1880									
3760	59.6	60.3	-1.2	-36.2	-13.0	-23.2	222	1.5	Fundamental (Mid Band)
5640	51.5	49.5	3.5	-40.3	-13.0	-27.3	190	1.2	
7520	48	49.6	6.8	-38.8	-13.0	-25.8			noise level
9400	47.4	47.6	8.1	-39.5	-13.0	-26.5			noise level
11280	45.9	45.7	11.1	-38.3	-13.0	-25.3			noise level
13160	50.7	50.7	11.2	-33.4	-13.0	-20.4			noise level
15040	50.3	52	14.8	-28.4	-13.0	-15.4			noise level
16920	49.9	49.6	16.6	-28.7	-13.0	-15.7			noise level
1908.75									
3817.5	59.1	58.1	-1.1	-37.2	-13.0	-24.2	20	1.4	Fundamental (High Band)
5726.25	51.5	48.9	3.7	-40.1	-13.0	-27.1	324	1	
7635	48.9	47.4	6.9	-39.4	-13.0	-26.4			noise level
9543.75	47.9	47.3	7.9	-39.5	-13.0	-26.5			noise level
11452.5	45.8	45.7	11.2	-38.3	-13.0	-25.3			noise level
13361.25	51.1	49.8	11.9	-32.3	-13.0	-19.3			noise level
15270	49.9	49.9	15.1	-30.3	-13.0	-17.3			noise level
17178.75	49.6	49.9	18.2	-27.1	-13.0	-14.1			noise level



Photograph of Test Setup



## Appendix

### Supplemental Information

