



**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT**

**TEST REPORT
FOR**

927MHz RF WIRELESS HANDS-FREE HEADSET

FCC ID: NQ2AM1062

MODEL NO: AM1062

REPORT NO: 01U1111-1

DECEMBER 28, 2001

Prepared for
ADVANCED MOBILE SOLUTIONS, INC.
375 RHEEM BLVD.,
MORAGA, CA 94556 U.S.A.

Prepared by
COMPLIANCE CERTIFICATION SERVICES
561F MONTEREY ROAD
MORGAN HILL, CA 95037, U.S.A.
TEL: (408) 463-0885
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1. VERIFICATION OF COMPLIANCE

COMPANY NAME : ADVANCED MOBILE SOLUTIONS, INC.
 375 RHEEM BLVD.,
 MORAGA, CA 94556, U.S.A.

CONTACT PERSON : SEAN KIM / DIRECTOR OF RETAIL SALES

TELEPHONE NO : (925) 377-32400

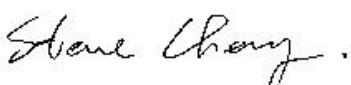
EUT DESCRIPTION : 927MHz RF WIRELESS HANDS-FREE HEADSET

MODEL NAME : AM1062

DATE TESTED : DECEMBER 28, 2001

LIMITS APPLY TO: FCC PART 15 SECTION 15.249	
TECHNICAL LIMITS	TEST RESULT
Radiated Emission of fundamental Frequency	No non-compliance found
Radiated Emission of Harmonic Frequency	No non-compliance found
Radiated Emission Outside the Band	No non-compliance found
LIMITS APPLY TO: FCC PART 15 SECTION 15.209	
Radiated Emission Digital Device	No non-compliance found
LIMITS APPLY TO: FCC PART 15 SECTION 15.207	
AC Line Conducted Emission	N/A

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in CFR 47 PART 15 SUBPART C. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

Test by:
 THU CHAN / EMC SENIORE ENGINEER
 COMPLIANCE CERTIFICATION SERVICES

Review by:
 STEVE CHENG / ENGINEERING MANAGER
 COMPLIANCE CERTIFICATIONS SERVICES

Warning: This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revision section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document.

2. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

CHASSIS TYPE	PLASTIC
Frequency Range	927 MHz
Antenna Requirement	Permanently Built-in
Power requirement	1.5Vdc AAAA battery

3. TEST LOCATION

All emissions tests were performed at:

Compliance Consulting Services
561F Monterey Road
Morgan Hill, CA 95087

CCS has site descriptions on file with the FCC for 10 and 3 meter site configurations. CCS is a NVLAP accredited facility.

4. EQUIPMENT MODIFICATIONS

To achieve compliance Levels, the following change(s) were made during compliance testing:

No changes were required in order to achieve compliance to class B levels.

5. TEST RESULT SUMMARY

Radiated Emissions (Fundamental Emission Field Strength)

Test Requirement: 15.249(A)(B)

Measurement Equipment Used:

HP Spectrum Analyzer / 8566B (Cal Due: 5/4/02)

HP Spectrum Display / 85662A (Cal Due: 5/4/02)

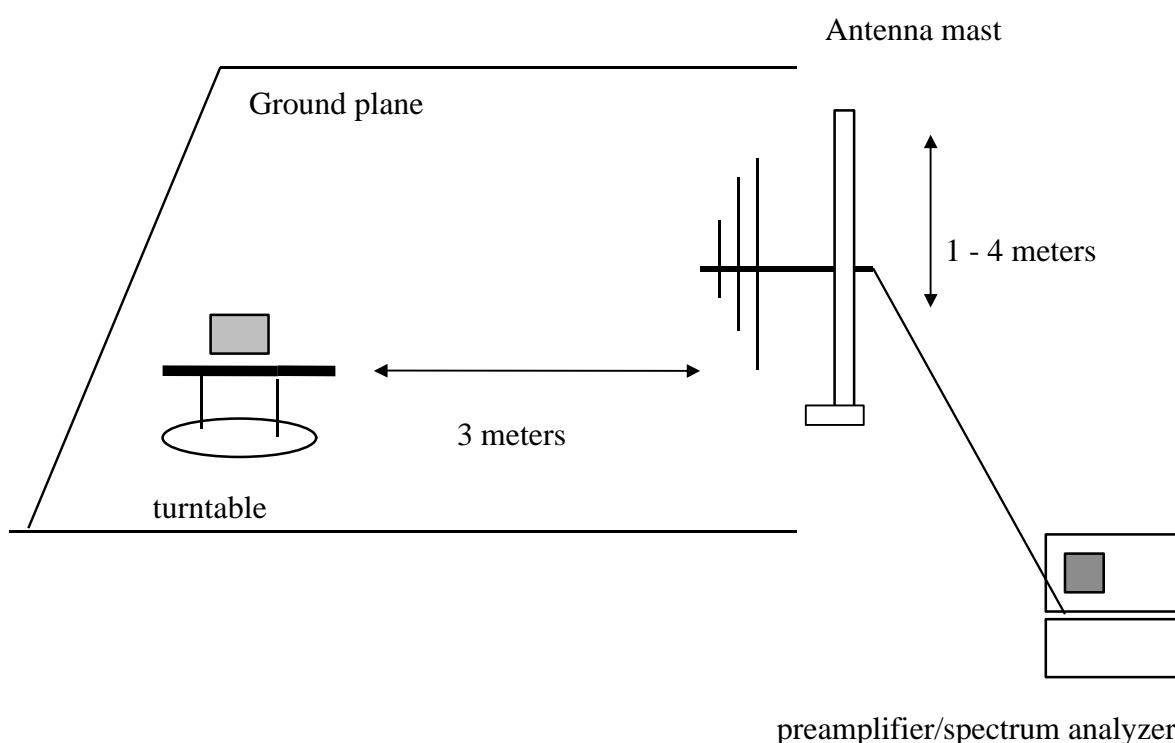
HP Quasi-Peak Detector / 85650A (Cal Due: 5/4/02)

HP Pre-Amp (P5) / 8447D (Cal Due: 8/10/02)

EMCO LP Antenna / 3146 (Cal Due: 8/2/02)

EATON Biconical Antenna / 94455-1 (Cal Due: 8/2/02)

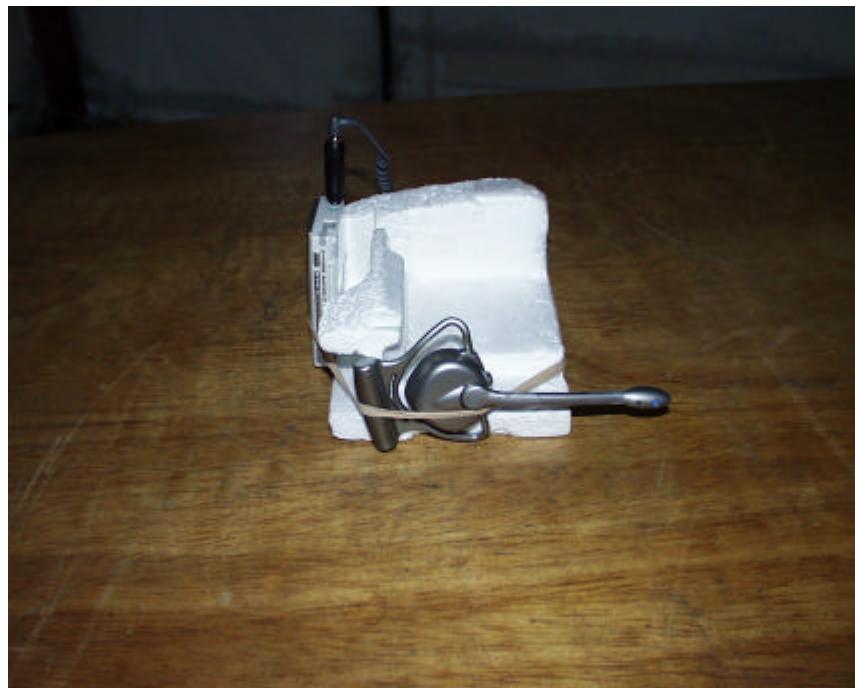
TEST SETUP FOR MEASUREMENT OF FUNDAMENTAL FREQUENCY



Test Procedures

- 1) Place the EUT on the turntable as shown. The EUT was placed as close as possible to the center of the turntable with the axis of rotation going through the EUT antenna when in vertical or horizontal polarization. Activated Eut to transmit.
- 2) The Bilog search antenna was place at a distance of 3 meters. The antenna was raised and lowered and the EUT rotated on the turntable to produce maximum emission levels on the spectrum analyzer.
- 3) The EUT was placed standing-up (x-axis), laying down right side (y-axis) and laying down facing up (z-axis). Step (1) and (2) were repeated for each orientation.

Test Setup Photo & Results:**X-Position**



Y-Position



Z-Position



FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

561F MONTEREY ROAD, SAN JOSE, CA 95037-9001
PHONE: (408) 463-0885 FAX: (408) 463-0888

Project #: 01U1111-1
Report #: 011219C1
Date & Time: 12/19/01 12:24 PM
Test Engr: Thu Chan

Company: Advanced Mobile Solutions
EUT Description: 903MHz / 927MHz RF Wireless Hands-Free Headset
Test Configuration: EUTs only (Belt-Clip & Headset)
Type of Test: FCC 15.249
Mode of Operation: Continued communication between two units

A-Site

B-Site

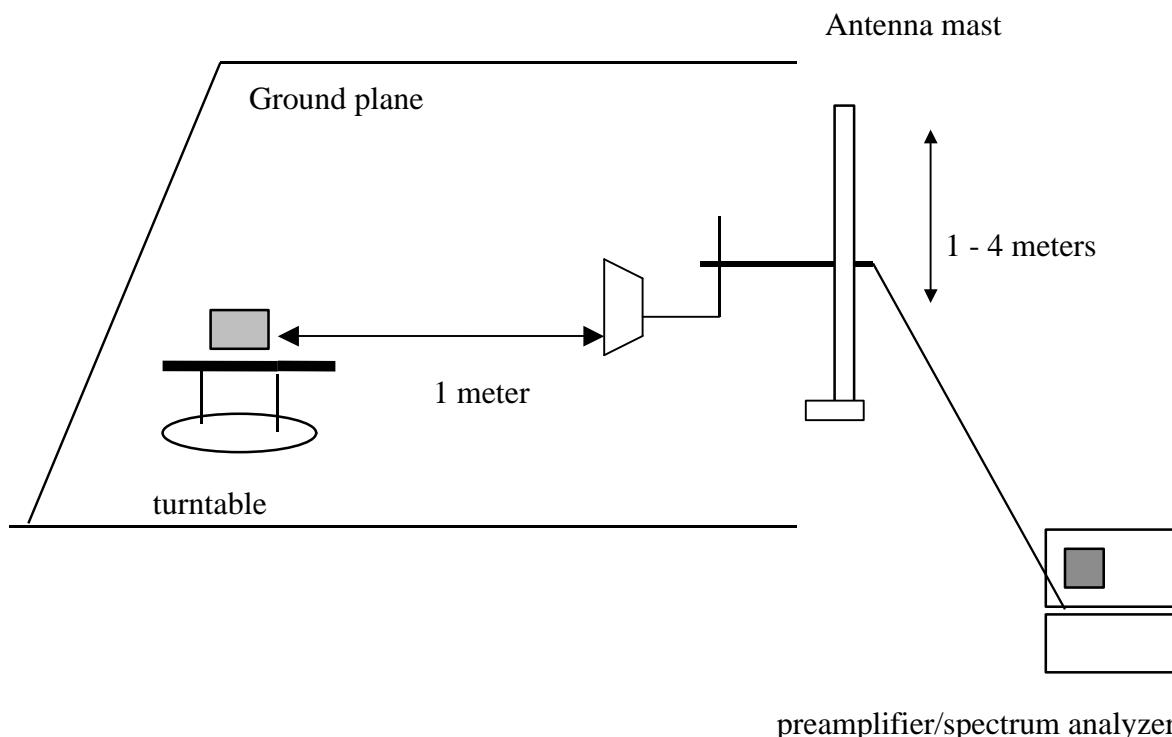
C-Site

F-Site

6 Worst Data

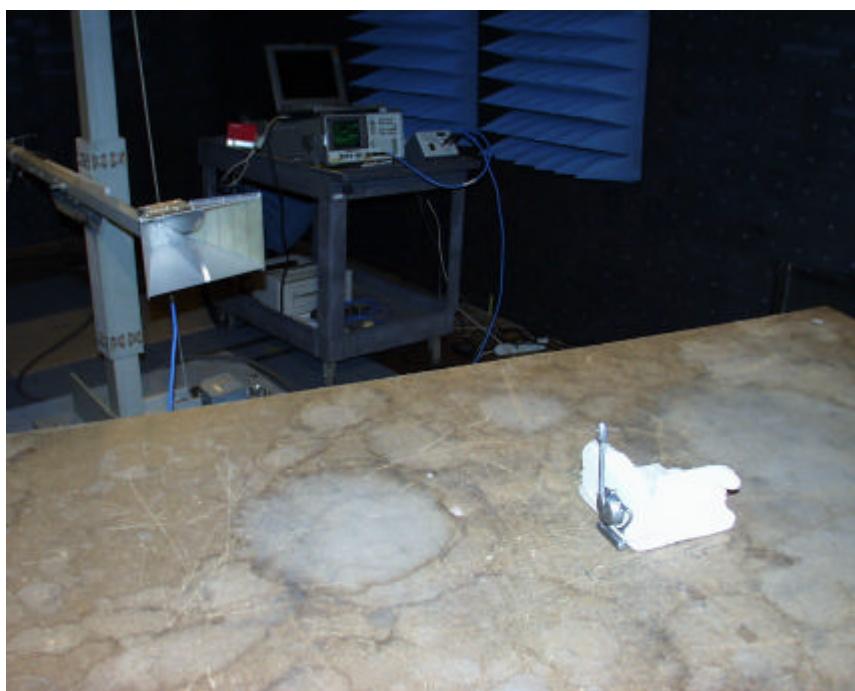
Descending

Freq. (MHz)	Reading (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC_B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)	Mark (P/Q/A)
X-Position Standup:											
903.07	86.20	21.75	4.96	27.52	85.39	93.98	-8.58	3mV	180.00	1.20	P
927.06	80.50	22.05	5.00	27.43	80.12	93.98	-13.85	3mV	180.00	1.00	P
927.06	69.00	22.84	5.00	27.43	69.41	93.98	-24.57	3mH	180.00	1.30	P
903.07	74.20	22.50	4.96	27.52	74.15	93.98	-19.83	3mH	180.00	1.20	P
Y-Position Side Lay down:											
903.07	77.00	22.50	4.96	27.52	76.95	93.98	-17.03	3mH	180.00	1.00	P
927.06	74.50	22.84	5.00	27.43	74.91	93.98	-19.07	3mH	180.00	1.00	P
927.06	66.00	22.05	5.00	27.43	65.62	93.98	-28.36	3mV	180.00	1.00	P
903.07	79.00	21.75	4.96	27.52	78.19	93.98	-15.78	3mV	180.00	1.20	P
Z-Position Back Lay Down:											
903.07	74.00	21.75	4.96	27.52	73.19	93.98	-20.78	3mV	180.00	2.00	P
927.05	66.00	22.05	5.00	27.43	65.62	93.98	-28.36	3mV	180.00	1.00	P
927.05	74.00	22.84	5.00	27.43	74.41	93.98	-19.57	3mH	180.00	1.50	P
903.07	81.50	22.50	4.96	27.52	81.45	93.98	-12.53	3mH	180.00	1.00	P
Total data #. 12 V.2c											

Radiated Emissions (Harmonics and Spurious Emission)**Test Requirement: 15.249(A)(B)(C)****Measurement Equipment Used:****HP EMC Receiver / 8593EM (Cal Due: 6/20/02)****EMCO Horn Antenna / 3115 (Cal Due: 5/4/02)****MITEQ Pre-Amp (1 – 26GHz) / NSP2600-44 (Cal Due: 4/12/02)****FLEXCO SMA able / 20761; 16ft. Cable (loss: .9dB/ft @ 26GHz)**TEST SETUP FOR MEASUREMENT OF FUNDAMENTAL HARMONICS
& OUT-OF-BAND ABOVE 1GHz

Test Procedures

1. The EUT was placed on a wooden turntable. The search antenna was placed at 1 meter from the EUT.
2. The turntable was slowly rotated to locate the direction of maximum emission. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations.
3. The EUT was placed standing-up (x-axis), laying down right side (y-axis) and laying down facing up (z-axis). Step (1) and (2) were repeated for each orientation.

Test Setup Photo & Results:

12/27/01 FCC Measurement
 Compliance Certification Services, Morgan Hill Open Field Site

Company: Advanced Mobile Solutions
 EUT: 927MHz RF Wireless Hands-Free Headset
 Model: AM1032 (Belt-Clip)

Equipment for 1.26.5 GHz
 HP8993EM EMC Receiver
 Mitel NSP2600-44 Preamp
 EMC3115 Antenna
 Cable: 16.0 feet

Average Measurements:

1 MHz Resolution Bandwidth
 10Hz Video Bandwidth

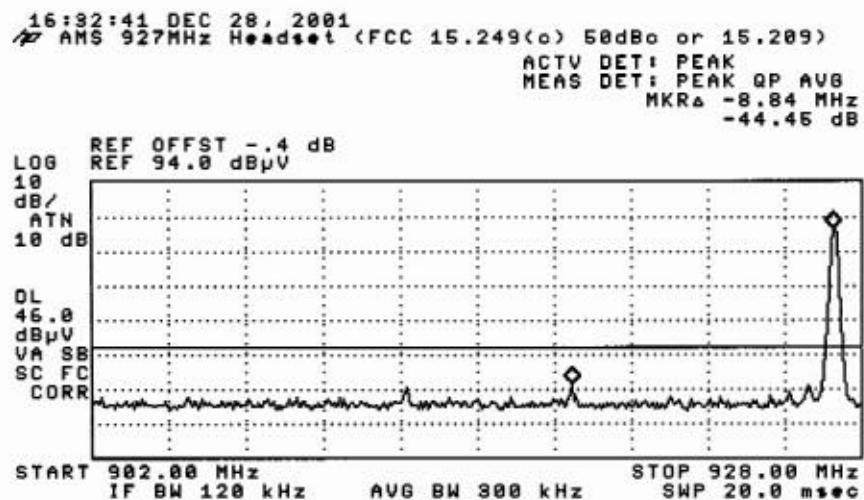
Peak Measurements:

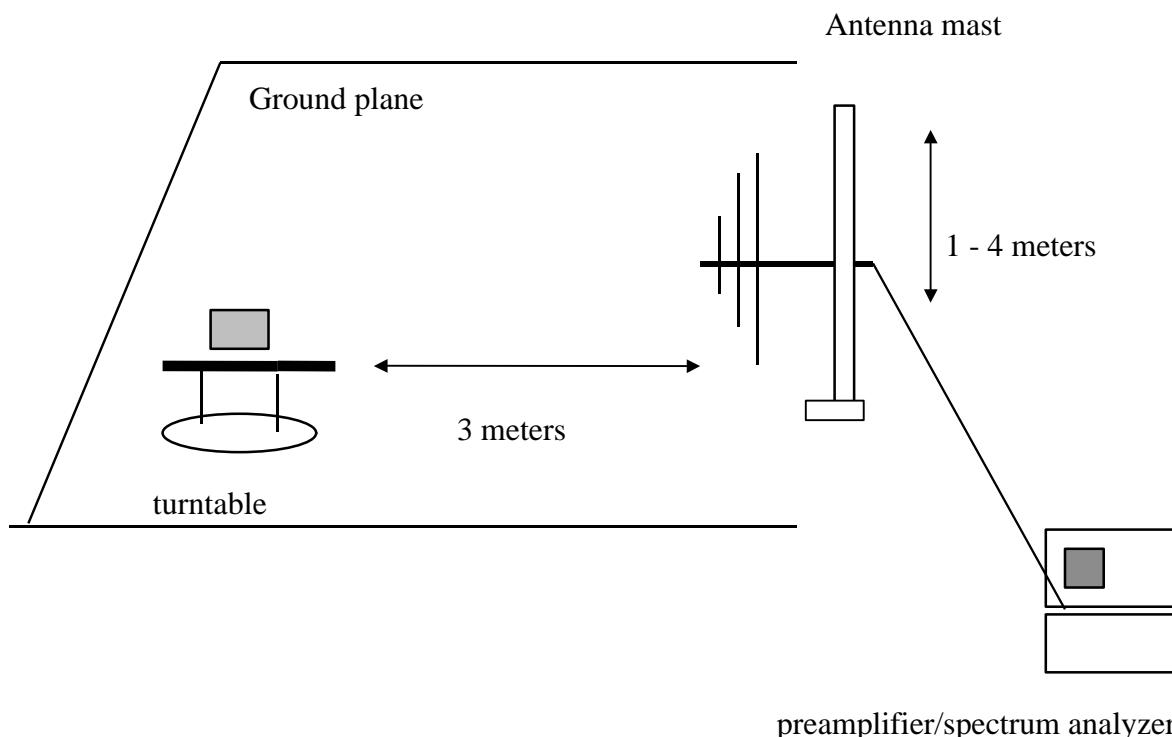
1MHz Resolution Bandwidth
 1MHz Video Bandwidth

f GHz	Dist feet	Read Peak dBmV	Read Avg dBmV	AF	CL dB	Amp dB	D Corr dB	HPF	Peak dBmV	Avg dBmV	Peak Lim dBmVdm	Avg Lim dBmVdm	Peak Mar dB	Avg Mar dB	N008	
															Y	H
1.054	22	80.6	80.2	26.4	0.0	-42.6	-9.5	0.0	55.0	54.7	114.0	84.0	-59.0	-39.3		
1.054	33	72.5	72.3	26.4	0.0	-42.6	-9.5	0.0	46.0	46.7	114.0	84.0	-67.1	-47.3		
2.781	33	81.0	80.0	29.2	0.0	-42.2	-9.5	0.0	39.5	37.5	74.0	64.0	-35.5	-16.5		
2.781	22	56.0	53.0	29.2	0.0	-42.2	-9.5	0.0	32.5	30.5	74.0	64.0	-41.5	-23.6		
3.708	33	48.3	42.0	32.0	0.0	-42.0	-9.5	0.0	28.8	23.5	74.0	64.0	-45.2	-31.6		
3.708	33	46.0	38.0	32.0	0.0	-42.0	-9.5	0.0	26.5	18.5	74.0	64.0	-47.5	-36.5		
4.835	22	47.6	41.5	32.2	0.0	-41.6	-9.5	0.0	29.8	22.4	74.0	64.0	-45.4	-31.6		
4.835	33	46.1	39.5	32.2	0.0	-41.6	-9.5	0.0	27.0	19.4	74.0	64.0	-47.0	-34.6		
5.562	33	43.4	32.4	34.2	0.0	-41.7	-9.5	0.0	26.5	15.5	74.0	64.0	-47.5	-38.5		
5.562	33	44.8	34.0	34.2	0.0	-41.7	-9.5	0.0	27.0	17.1	74.0	64.0	-46.1	-36.9		
6.489	33	44.5	34.7	33.8	0.0	-41.5	-9.5	0.0	27.4	17.6	74.0	64.0	-46.6	-36.4		
6.489	33	49.4	45.0	33.9	0.0	-41.5	-9.5	0.0	32.3	27.9	74.0	64.0	-41.7	-26.1		
7.416	33	45.0	34.0	36.9	0.0	-41.0	-9.5	0.0	31.4	20.4	74.0	64.0	-42.6	-33.6	Noise Floor	
8.343	33	46.3	34.5	37.2	0.0	-40.1	-9.5	0.0	33.0	22.2	74.0	64.0	-41.0	-31.8	Noise Floor	
9.270	33	45.3	34.7	37.5	0.0	-39.4	-9.5	0.0	23.9	23.3	74.0	64.0	-40.1	-30.7	Noise Floor	

f Dist	Measurement Frequency Distance to Antenne	Amp Preamp Gain	Avg Lim Average Field Strength Limit
Read	Analyzer Reading	D Corr Distance Correct to 3 meters	Pk Lim Peak Field Strength Limit
AF	Antenna Factor	Avg Average Field Strength @ 3 m	Avg Mar Margin vs. Average Limit
CL	Cable Loss	Peak Calculated Peak Field Strength	Pk Mar Margin vs. Peak Limit
		HPF High Pass Filter	

Headset Harmonic & Spurious Emissions



Radiated Emissions**Test Requirement: 15.209****Measurement Equipment Used:****HP Spectrum Analyzer / 8566B (Cal Due: 5/4/02)****HP Spectrum Display / 85662A (Cal Due: 5/4/02)****HP Quasi-Peak Detector / 85650A (Cal Due: 5/4/02)****HP Pre-Amp (P5) / 8447D (Cal Due: 8/10/02)****EMCO LP Antenna / 3146 (Cal Due: 8/2/02)****EATON Biconical Antenna / 94455-1 (Cal Due: 8/2/02)**TEST SETUP FOR MEASUREMENT OF DIGITAL DEVICE

Test Procedures

- 1) Place the EUT on the turntable as shown. The EUT was placed as close as possible to the center of the turntable with the axis of rotation going through the EUT antenna when in vertical or horizontal polarization. Activated Eut to transmit.
- 2) The Bilog search antenna was place at a distance of 3 meters. The antenna was raised and lowered and the EUT rotated on the turntable to produce maximum emission levels on the spectrum analyzer.

The EUT (Headset) was placed standing-up (x-axis, worst position).

Test Setup Photo & Results:



FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

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PHONE: (408) 463-0885 FAX: (408) 463-0888

Project #: 01U1111-1

Report #: 011219C1

Date & Time: 12/19/01 12:24 PM

Test Engr: Thu Chan

Company: Advanced Mobile Solutions

EUT Description: 903MHz / 927Mhz RF Wireless Hands-Free Headset

Test Configuration: EUT only

Type of Test: FCC Class B

Mode of Operation: Continued communication between two units

A-Site

B-Site

C-Site

F-Site

6 Worst Data

Descending

Freq. (MHz)	Reading (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC_B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)	Mark (P/Q/A)
912.55	44.00	21.87	4.98	27.48	43.36	46.00	-2.64	3mV	180.00	1.00	P
941.55	39.00	22.23	5.03	27.38	38.88	46.00	-7.12	3mV	180.00	1.00	P
912.63	40.00	22.64	4.98	27.48	40.13	46.00	-5.87	3mH	180.00	1.00	QP
36.75	49.00	11.37	0.82	27.55	33.65	40.00	-6.36	3mV	180.00	1.00	P
36.75	42.00	15.33	0.82	27.55	30.61	40.00	-9.39	3mH	180.00	3.20	P
46.78	42.00	14.05	0.88	27.51	29.42	40.00	-10.58	3mH	180.00	3.20	P
No other emission were found within 20dB FCC class B limits up to 1GHz.											
Total data #:	6										
V.2c											

AC Line Conducted Emissions**Test Requirement: 15.207**

Not applicable. DC battery operating only.