environ LABORATORIES

Engineering Report 39719-2

Radiated Radio Frequency Emissions

in accordance with

RTCA/DO-160E, Section 21

for

Delphi Medical Systems
5725 Delphi Drive
Troy, MI 48098

Prepared By:	J. Koser Jenelle S. Koser, Technical Writer
	Ronald R Amundson Ronald R. Amundson, EMC Test Engineer
Approved By:	Erik J. Borgstrom Erik J. Borgstrom, EMC Operations Manager

9725 Girard Avenue South • Minneapolis, MN 55431
952-888-7795 • FAX 952-888-6345 • 800-826-3710
www.environlab.com

environ LABORATORIES	RADIATED RF EMISSIONS DATA SHEET	Page:	1 of 15
		Test Date(s):	1/28/2009 to 1/29/2009
		Job Number:	39719
COMPANY: Delphi Medical Systems	SPEC: RTCA/DO-160E	SECTION: Section 21	
DEVICE: EVO Central Air Oxygen Concentrator	MODEL NO.: RS-00400	SERIAL NO.: MC000018	
TEST DESCRIPTION: Radiated Radio Frequency Emissions		Test Location: Chamber 2	

Revision Record

Revision	Total Pages	Date	Affected Section(s)	Affected Page(s)	Description of Changes
--	15	January 29, 2009			Original

Tested by: David D. Anderson

Reviewed by: Ronald R. Amundson

COMPANY: Delphi Medical Systems	SPEC: RTCA/DO-160E	SECTION: Section 21
DEVICE: EVO Central Air Oxygen Concentrator	MODEL NO.: RS-00400	SERIAL NO.: MC000018
TEST DESCRIPTION: Radiated Radio Frequency Emissions		Test Location: Chamber 2

Table 1: Radiated Radio Frequency Emissions Test Results

Frequency Range	RF Bandwidth	Category	Polarity	Antenna	Mode	EUT Orientation	Results	Notes
2 MHz to 25 MHz	1 kHz	L	Vertical	Active Rod	Ambient	Per QTP	Pass	
25 MHz to 30 MHz	1 kHz	L	Vertical	Biconical	Ambient	Per QTP	Pass	
25 MHz to 30 MHz	1 kHz	L	Horizontal	Biconical	Ambient	Per QTP	Pass	
30 MHz to 200 MHz	10 kHz	L	Vertical	Biconical	Ambient	Per QTP	Pass	
30 MHz to 200 MHz	10 kHz	L	Horizontal	Biconical	Ambient	Per QTP	Pass	
200 MHz to 400 MHz	10 kHz	L	Vertical	Dual Ridge Low	Ambient	Per QTP	Pass	
200 MHz to 400 MHz	10 kHz	L	Horizontal	Dual Ridge Low	Ambient	Per QTP	Pass	
400 MHz to 1000 MHz	100 kHz	L	Vertical	Dual Ridge Low	Ambient	Per QTP	Pass	
400 MHz to 1000 MHz	100 kHz	L	Horizontal	Dual Ridge Low	Ambient	Per QTP	Pass	
1000 MHz to 6000 MHz	1 MHz	L	Vertical	Dual Ridge High	Ambient	Per QTP	Pass	
1000 MHz to 6000 MHz	1 MHz	L	Horizontal	Dual Ridge High	Ambient	Per QTP	Pass	
2 MHz to 25 MHz	1 kHz	L	Vertical	Active Rod	Battery, 5.0	Per QTP	Pass	
25 MHz to 30MHz	1 kHz	L	Vertical	Biconical	Battery, 5.0	Per QTP	Pass	
25 MHz to 30 MHz	1 kHz	L	Horizontal	Biconical	Battery, 5.0	Per QTP	Pass	
30 MHz to 200 MHz	10 kHz	L	Vertical	Biconical	Battery, 5.0	Per QTP	Pass	
30 MHz to 200 MHz	10 kHz	L	Horizontal	Biconical	Battery, 5.0	Per QTP	Pass	
200 MHz to 400 MHz	10 kHz	L	Vertical	Dual Ridge Low	Battery, 5.0	Per QTP	Pass	
200 MHz to 400 MHz	10 kHz	L	Horizontal	Dual Ridge Low	Battery, 5.0	Per QTP	Pass	
400 MHz to 1000 MHz	100 kHz	L	Vertical	Dual Ridge Low	Battery, 5.0	Per QTP	Pass	
400 MHz to 1000 MHz	100 kHz	L	Horizontal	Dual Ridge Low	Battery, 5.0	Per QTP	Pass	
1000 MHz to 6000 MHz	1 MHz	L	Vertical	Dual Ridge High	Battery, 5.0	Per QTP	Pass	
1000 MHz to 6000 MHz	1 MHz	L	Horizontal	Dual Ridge High	Battery, 5.0	Per QTP	Pass	