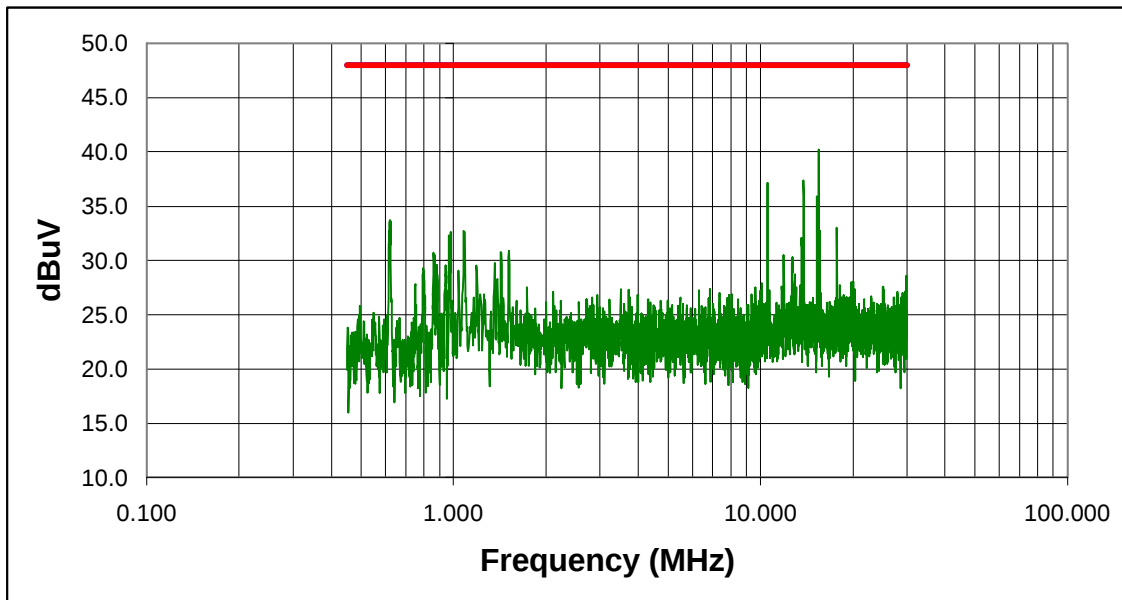


Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets				Rev 3.3 10/09/99
EUT: LCS-TX	Serial Number: -	Job Number: CARD0012	Date: 02/10/99	
Manufacturer: Cardio Theater, Inc.	Test Engineer: Dan Haas	Job Site: TE03		
Customer Reference Number: FCC ID: M4D0413	Software: None	Power: 120V/60Hz		
Comments: Standard Production Unit. Group 2, Channel 1				
		Temperature (°C): 10	% Humidity: 70.0	
Test System				
EUT	Radio Receiver (2)		Tape Player	
Audio Tape Player	Antenna			
Test Equipment				
AAI	AQD	LIA		

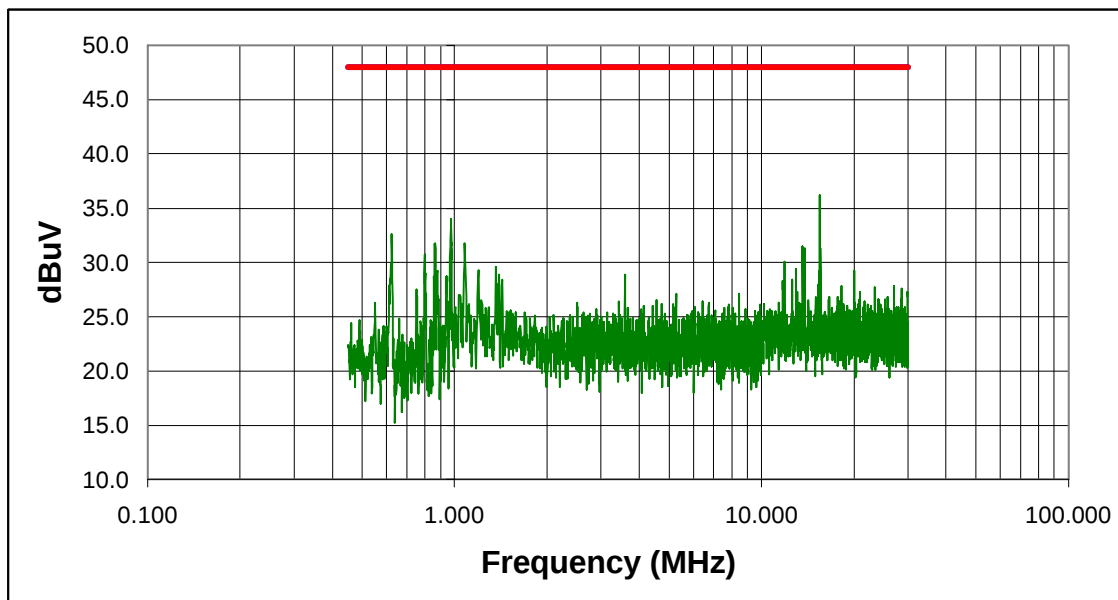
FCC Part 15 Class B Conducted Emissions Limits - High Line



Frequency (MHz)	Meter Reading (dBuV)	Detector	Correction Factor (dB)	Adjusted Level (dBuV)	Specification Limit (dBuV)	Margin (dB)
13.594	16.9	Peak	21.1	38.0	48.0	-10.0
15.495	16.2	Peak	21.1	37.3	48.0	-10.7
0.801	14.4	Peak	20.0	34.4	48.0	-13.6
0.621	14.2	Peak	20.0	34.2	48.0	-13.8
0.975	13.6	Peak	20.0	33.6	48.0	-14.4
0.944	13.6	Peak	20.0	33.6	48.0	-14.4
0.974	13.2	Peak	20.0	33.2	48.0	-14.8
0.971	12.7	Peak	20.0	32.7	48.0	-15.3
0.968	12.6	Peak	20.0	32.6	48.0	-15.4
0.978	12.3	Peak	20.0	32.3	48.0	-15.7
1.086	10.2	Peak	21.1	31.3	48.0	-16.7
1.431	10.2	Peak	21.1	31.3	48.0	-16.7
1.523	9.8	Peak	21.1	30.9	48.0	-17.1
0.795	10.2	Peak	20.0	30.2	48.0	-17.8
0.616	10.1	Peak	20.0	30.1	48.0	-17.9
1.263	8.9	Peak	21.1	30.0	48.0	-18.0
0.884	9.8	Peak	20.0	29.8	48.0	-18.2
0.966	9.4	Peak	20.0	29.4	48.0	-18.6
0.860	9.4	Peak	20.0	29.4	48.0	-18.6
0.626	9.4	Peak	20.0	29.4	48.0	-18.6

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets				Rev 3.3 10/09/99
EUT: LCS-TX	Serial Number: -	Job Number: CARD0012	Date: 02/10/99	
Manufacturer: Cardio Theater, Inc.	Test Engineer: Dan Haas	Job Site: TE03		
Customer Reference Number: FCC ID: M4D0413	Software: None	Power: 120V/60Hz		
Comments: Standard Production Unit. Group 2, Channel 1				
		Temperature (°C): 10	% Humidity: 70.0	
Test System				
EUT	Radio Receiver (2)	Tape Player		
Audio Tape Player	Antenna			
Test Equipment				
AAI	AQD	LIA		

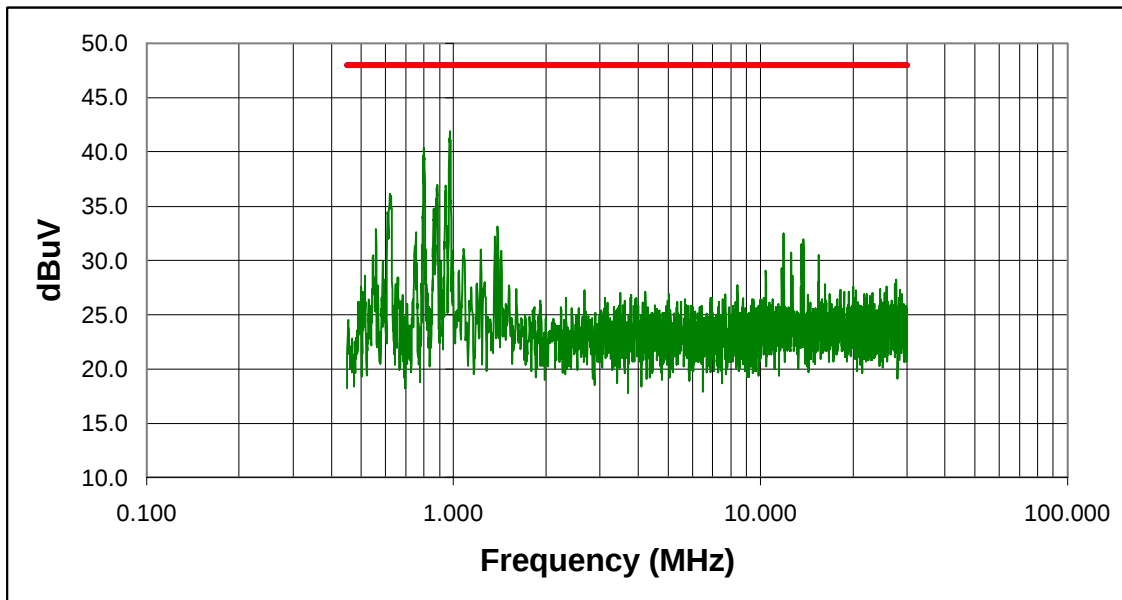
FCC Part 15 Class B Conducted Emissions Limits - Low Line



Frequency (MHz)	Meter Reading (dBuV)	Detector	Correction Factor (dB)	Adjusted Level (dBuV)	Specification Limit (dBuV)	Margin (dB)
15.495	15.1	Peak	21.1	36.2	48.0	-11.8
0.974	14.0	Peak	20.0	34.0	48.0	-14.0
0.974	14.0	Peak	20.0	34.0	48.0	-14.0
0.624	12.6	Peak	20.0	32.6	48.0	-15.4
0.971	11.9	Peak	20.0	31.9	48.0	-16.1
0.864	11.8	Peak	20.0	31.8	48.0	-16.2
1.082	10.7	Peak	21.1	31.8	48.0	-16.2
0.861	11.7	Peak	20.0	31.7	48.0	-16.3
0.980	11.2	Peak	20.0	31.2	48.0	-16.8
0.800	10.8	Peak	20.0	30.8	48.0	-17.2
0.978	10.7	Peak	20.0	30.7	48.0	-17.3
0.621	9.9	Peak	20.0	29.9	48.0	-18.1
1.363	8.5	Peak	21.1	29.6	48.0	-18.4
1.199	8.2	Peak	21.1	29.3	48.0	-18.7
0.881	9.2	Peak	20.0	29.2	48.0	-18.8
0.804	9.0	Peak	20.0	29.0	48.0	-19.0
0.880	9.0	Peak	20.0	29.0	48.0	-19.0
3.588	7.8	Peak	21.1	28.9	48.0	-19.1
1.395	7.8	Peak	21.1	28.9	48.0	-19.1
0.940	8.7	Peak	20.0	28.7	48.0	-19.3

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets				Rev 3.3 10/09/99
EUT: LCS-TX	Serial Number: -	Job Number: CARD0012	Date: 02/10/99	
Manufacturer: Cardio Theater, Inc.	Test Engineer: Dan Haas	Job Site: TE03		
Customer Reference Number: FCC ID: M4D0413	Software: None	Power: 120V/60Hz		
Comments: Standard Production Unit. Group 6, Channel 1				
		Temperature (°C): 10	% Humidity: 70.0	
Test System				
EUT	Radio Receiver (2)	Tape Player		
Audio Tape Player	Antenna			
Test Equipment				
AAI	AQD	LIA		

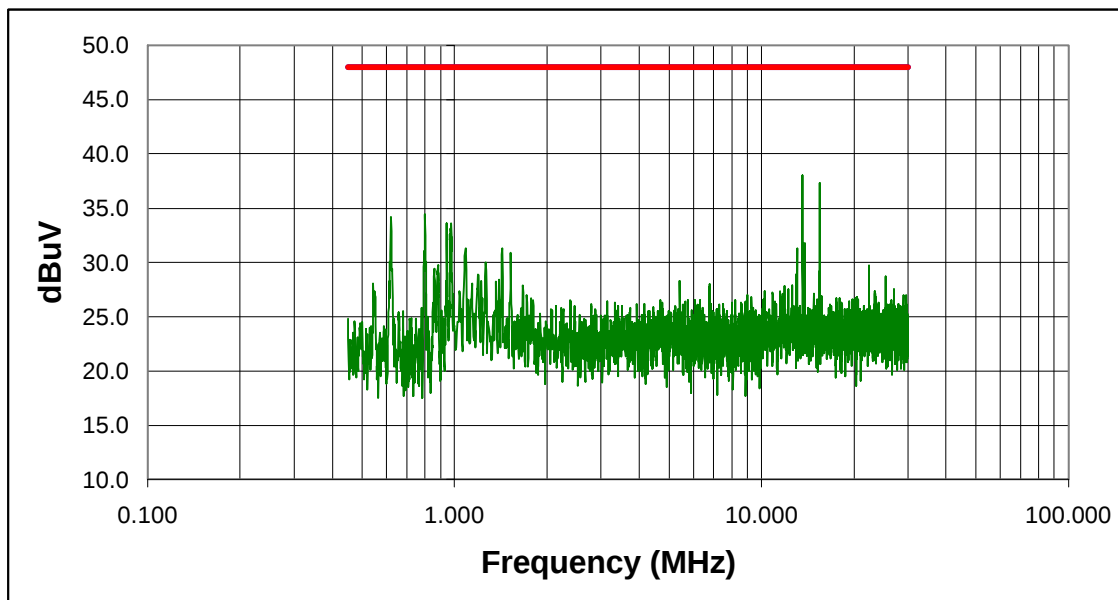
FCC Part 15 Class B Conducted Emissions Limits - High Line



Frequency (MHz)	Meter Reading (dBuV)	Detector	Correction Factor (dB)	Adjusted Level (dBuV)	Specification Limit (dBuV)	Margin (dB)
0.973	21.9	Peak	20.0	41.9	48.0	-6.1
0.971	21.2	Peak	20.0	41.2	48.0	-6.8
0.976	21.1	Peak	20.0	41.1	48.0	-6.9
0.801	20.4	Peak	20.0	40.4	48.0	-7.6
0.800	20.4	Peak	20.0	40.4	48.0	-7.6
0.798	19.6	Peak	20.0	39.6	48.0	-8.4
0.804	19.4	Peak	20.0	39.4	48.0	-8.6
0.969	18.3	Peak	20.0	38.3	48.0	-9.7
0.886	17.0	Peak	20.0	37.0	48.0	-11.0
0.945	16.9	Peak	20.0	36.9	48.0	-11.1
0.883	16.7	Peak	20.0	36.7	48.0	-11.3
0.807	16.5	Peak	20.0	36.5	48.0	-11.5
0.942	16.4	Peak	20.0	36.4	48.0	-11.6
0.940	16.3	Peak	20.0	36.3	48.0	-11.7
0.946	16.3	Peak	20.0	36.3	48.0	-11.7
0.620	16.1	Peak	20.0	36.1	48.0	-11.9
0.626	16.0	Peak	20.0	36.0	48.0	-12.0
0.625	15.7	Peak	20.0	35.7	48.0	-12.3
0.881	15.7	Peak	20.0	35.7	48.0	-12.3
0.878	15.6	Peak	20.0	35.6	48.0	-12.4

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets				Rev 3.3 10/09/99
EUT: LCS-TX	Serial Number: -	Job Number: CARD0012	Date: 02/10/99	
Manufacturer: Cardio Theater, Inc.	Test Engineer: Dan Haas	Job Site: TE03		
Customer Reference Number: FCC ID: M4D0413	Software: None	Power: 120V/60Hz		
Comments: Standard Production Unit. Group 6, Channel 1				
		Temperature (°C): 10	% Humidity: 70.0	
Test System				
EUT	Radio Receiver (2)	Tape Player		
Audio Tape Player	Antenna			
Test Equipment				
AAI	AQD	LIA		

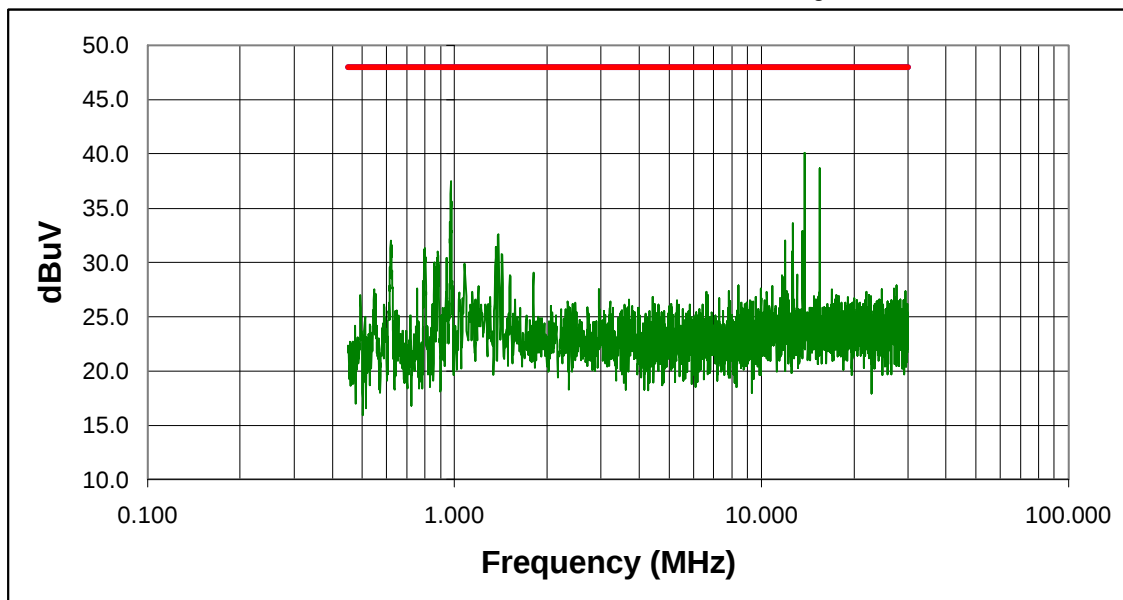
FCC Part 15 Class B Conducted Emissions Limits - Low Line



Frequency (MHz)	Meter Reading (dBuV)	Detector	Correction Factor (dB)	Adjusted Level (dBuV)	Specification Limit (dBuV)	Margin (dB)
15.505	19.1	Peak	21.1	40.2	48.0	-7.8
13.804	16.3	Peak	21.1	37.4	48.0	-10.6
10.531	16.0	Peak	21.1	37.1	48.0	-10.9
15.315	14.8	Peak	21.1	35.9	48.0	-12.1
0.620	13.7	Peak	20.0	33.7	48.0	-14.3
0.623	13.6	Peak	20.0	33.6	48.0	-14.4
0.617	12.7	Peak	20.0	32.7	48.0	-15.3
1.082	11.6	Peak	21.1	32.7	48.0	-15.3
0.978	12.6	Peak	20.0	32.6	48.0	-15.4
0.969	12.3	Peak	20.0	32.3	48.0	-15.7
0.973	12.0	Peak	20.0	32.0	48.0	-16.0
1.515	9.8	Peak	21.1	30.9	48.0	-17.1
1.427	9.7	Peak	21.1	30.8	48.0	-17.2
0.861	10.7	Peak	20.0	30.7	48.0	-17.3
0.867	10.5	Peak	20.0	30.5	48.0	-17.5
0.980	10.0	Peak	20.0	30.0	48.0	-18.0
1.359	8.7	Peak	21.1	29.8	48.0	-18.2
0.862	9.6	Peak	20.0	29.6	48.0	-18.4
0.882	9.6	Peak	20.0	29.6	48.0	-18.4
0.941	9.5	Peak	20.0	29.5	48.0	-18.5

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets				Rev 3.3 10/09/99
EUT: LCS-TX	Serial Number: -	Job Number: CARD0012	Date: 02/10/99	
Manufacturer: Cardio Theater, Inc.	Test Engineer: Dan Haas	Job Site: TE03		
Customer Reference Number: FCC ID: M4D0413	Software: None	Power: 120V/60Hz		
Comments: Standard Production Unit. Group 7, Channel 1				
		Temperature (°C): 10	% Humidity: 70.0	
Test System				
EUT	Radio Receiver (2)	Tape Player		
Audio Tape Player	Antenna			
Test Equipment				
AAI	AQD	LIA		

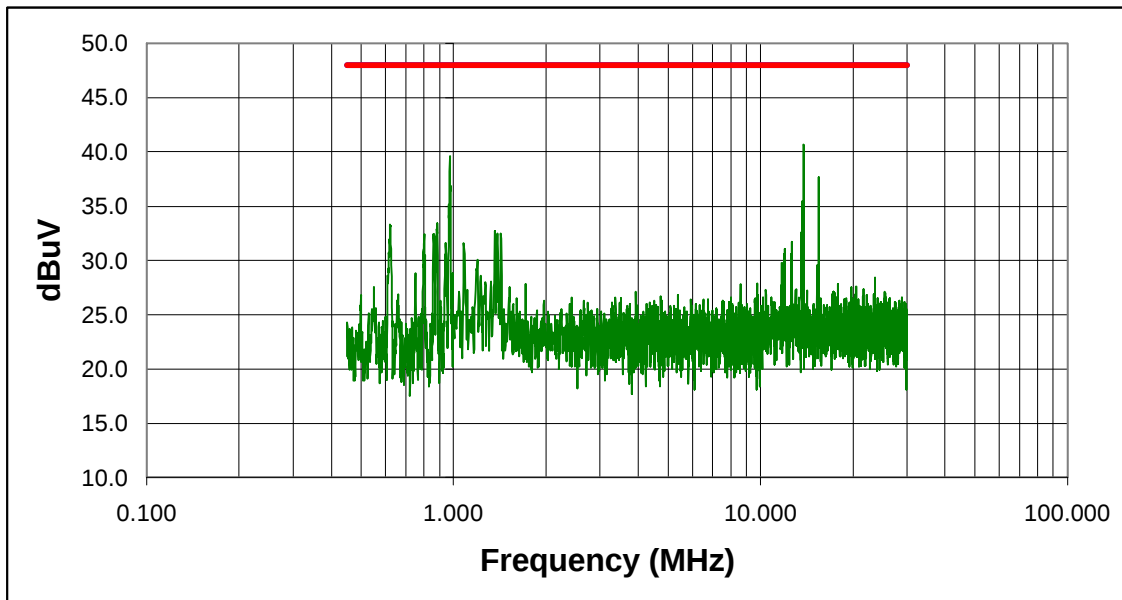
FCC Part 15 Class B Conducted Emissions Limits - High Line



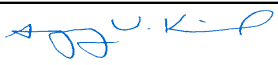
Frequency (MHz)	Meter Reading (dBuV)	Detector	Correction Factor (dB)	Adjusted Level (dBuV)	Specification Limit (dBuV)	Margin (dB)
13.804	19.0	Peak	21.1	40.1	48.0	-7.9
15.505	17.6	Peak	21.1	38.7	48.0	-9.3
0.973	17.5	Peak	20.0	37.5	48.0	-10.5
1.391	11.5	Peak	21.1	32.6	48.0	-15.4
0.966	12.2	Peak	20.0	32.2	48.0	-15.8
0.620	12.0	Peak	20.0	32.0	48.0	-16.0
0.623	11.6	Peak	20.0	31.6	48.0	-16.4
1.363	10.3	Peak	21.1	31.4	48.0	-16.6
0.801	11.3	Peak	20.0	31.3	48.0	-16.7
0.795	11.2	Peak	20.0	31.2	48.0	-16.8
0.796	11.2	Peak	20.0	31.2	48.0	-16.8
0.883	11.0	Peak	20.0	31.0	48.0	-17.0
1.427	9.7	Peak	21.1	30.8	48.0	-17.2
0.800	10.6	Peak	20.0	30.6	48.0	-17.4
0.804	10.5	Peak	20.0	30.5	48.0	-17.5
0.880	10.4	Peak	20.0	30.4	48.0	-17.6
0.943	10.4	Peak	20.0	30.4	48.0	-17.6
0.859	10.0	Peak	20.0	30.0	48.0	-18.0
0.886	10.0	Peak	20.0	30.0	48.0	-18.0
1.078	8.8	Peak	21.1	29.9	48.0	-18.1

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets				Rev 3.3 10/09/99
EUT: LCS-TX	Serial Number: -	Job Number: CARD0012	Date: 02/10/99	
Manufacturer: Cardio Theater, Inc.	Test Engineer: Dan Haas	Job Site: TE03		
Customer Reference Number: FCC ID: M4D0413	Software: None	Power: 120V/60Hz		
Comments: Standard Production Unit. Group 7, Channel 1				
		Temperature (°C): 10	% Humidity: 70.0	
Test System				
EUT	Radio Receiver (2)	Tape Player		
Audio Tape Player	Antenna			
Test Equipment				
AAI	AQD	LIA		

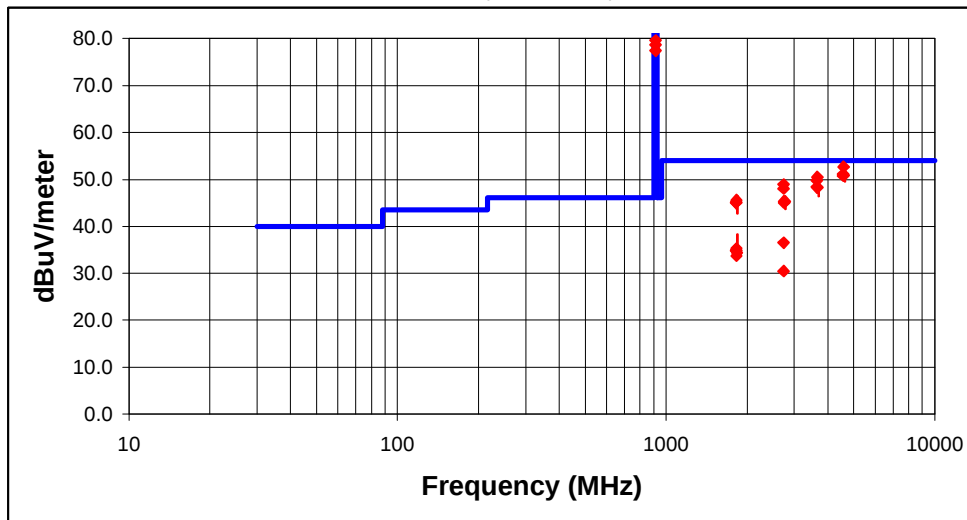
FCC Part 15 Class B Conducted Emissions Limits - Low Line



Frequency (MHz)	Meter Reading (dBuV)	Detector	Correction Factor (dB)	Adjusted Level (dBuV)	Specification Limit (dBuV)	Margin (dB)
13.804	19.6	Peak	21.1	40.7	48.0	-7.3
0.973	19.6	Peak	20.0	39.6	48.0	-8.4
15.505	16.6	Peak	21.1	37.7	48.0	-10.3
0.978	16.8	Peak	20.0	36.8	48.0	-11.2
13.674	14.3	Peak	21.1	35.4	48.0	-12.6
0.966	15.1	Peak	20.0	35.1	48.0	-12.9
0.967	15.1	Peak	20.0	35.1	48.0	-12.9
0.885	13.4	Peak	20.0	33.4	48.0	-14.6
0.621	13.3	Peak	20.0	33.3	48.0	-14.7
0.623	13.2	Peak	20.0	33.2	48.0	-14.8
1.363	11.6	Peak	21.1	32.7	48.0	-15.3
1.427	11.4	Peak	21.1	32.5	48.0	-15.5
1.391	11.4	Peak	21.1	32.5	48.0	-15.5
0.864	12.4	Peak	20.0	32.4	48.0	-15.6
0.860	12.4	Peak	20.0	32.4	48.0	-15.6
0.803	12.4	Peak	20.0	32.4	48.0	-15.6
0.619	11.9	Peak	20.0	31.9	48.0	-16.1
1.082	10.5	Peak	21.1	31.6	48.0	-16.4
0.943	11.6	Peak	20.0	31.6	48.0	-16.4
0.625	11.5	Peak	20.0	31.5	48.0	-16.5

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets				Rev 3.3 10/09/99	
EUT:	Serial Number:	Job Number:	Date:		
LCS-TX	-	CARD0012	02/08/99		
Manufacturer:	Test Engineer:	Job Site:			
Cardio Theater, Inc.	Greg Kiemel	TE03			
Customer Reference Number:	Software:	Power:			
FCC ID: M4D0413	None				
Comments: Standard Production Unit					
				Temperature (°C):	% Humidity:
				12	75.0
Test System					
EUT	Radio Receiver (2)		Tape Player		
Audio Tape Player	Antenna				
Test Equipment					
AAI	AOD	APB	ALB	AHA	APE
AAF	APJ				

FCC 15.249 (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
4583.743	39.8	AV	34.1	HHRN	34.9	13.7	22.0	1.9	52.7	54.0	-1.3	Group 6 - Mid Freq
924.410	63.3	PK	23.0	VLPA	0.0	6.1	296.0	1.1	92.4	94.0	-1.7	Group 7 - High Freq
924.410	63.2	QP	23.0	VLPA	0.0	6.1	296.0	1.1	92.3	94.0	-1.7	Group 7 - High Freq
924.410	62.3	AV	23.0	VLPA	0.0	6.1	296.0	1.1	91.4	94.0	-2.7	Group 7 - High Freq
4629.300	38.2	AV	34.2	VHRN	34.9	13.8	0.0	1.0	51.3	54.0	-2.7	Group 7 - High Freq
4556.805	38.3	AV	34.0	HHRN	34.9	13.7	20.0	1.9	51.1	54.0	-3.0	Group 2 - Low Freq
4583.743	38.0	AV	34.1	VHRN	34.9	13.7	215.0	1.0	50.9	54.0	-3.1	Group 6 - Mid Freq
4556.805	37.9	AV	34.0	VHRN	34.9	13.7	330.0	2.0	50.7	54.0	-3.3	Group 2 - Low Freq
911.224	61.7	QP	22.9	VLPA	0.0	6.1	297.0	1.0	90.7	94.0	-3.3	Group 2 - Low Freq
4629.300	37.5	AV	34.2	HHRN	34.9	13.8	0.0	1.7	50.6	54.0	-3.4	Group 7 - High Freq
3653.210	40.6	AV	32.9	VHRN	34.7	11.7	348.0	1.8	50.5	54.0	-3.5	Group 6 - Mid Freq
911.224	61.1	PK	22.9	VLPA	0.0	6.1	297.0	1.0	90.1	94.0	-3.9	Group 2 - Low Freq
911.224	60.8	AV	22.9	VLPA	0.0	6.1	297.0	1.0	89.8	94.0	-4.2	Group 2 - Low Freq
3645.960	39.8	AV	32.9	VHRN	34.7	11.7	350.0	1.5	49.7	54.0	-4.3	Group 2 - Low Freq
2741.550	43.0	PK	30.9	HHRN	34.5	9.5	180.0	1.0	48.9	54.0	-5.1	Group 2 - Low Freq
3689.160	38.7	AV	33.1	HHRN	34.8	11.8	37.0	1.1	48.8	54.0	-5.2	Group 7 - High Freq
3645.960	38.5	AV	32.9	HHRN	34.7	11.7	0.0	2.2	48.4	54.0	-5.6	Group 2 - Low Freq
3653.210	38.3	AV	32.9	HHRN	34.7	11.7	162.0	2.0	48.2	54.0	-5.8	Group 6 - Mid Freq
2741.550	42.1	PK	30.9	VHRN	34.5	9.5	183.0	1.0	48.0	54.0	-6.0	Group 2 - Low Freq
913.020	58.9	PK	23.0	VLPA	0.0	6.1	297.0	1.0	88.0	94.0	-6.0	Group 6 - Mid Freq
3689.160	37.3	AV	33.1	VHRN	34.8	11.8	341.0	1.0	47.4	54.0	-6.6	Group 7 - High Freq
913.020	57.8	QP	23.0	VLPA	0.0	6.1	297.0	1.0	86.9	94.0	-7.1	Group 6 - Mid Freq
913.020	56.9	AV	23.0	VLPA	0.0	6.1	297.0	1.0	86.0	94.0	-8.0	Group 6 - Mid Freq
1824.528	52.1	PK	28.4	VHRN	43.2	8.3	102.0	2.6	45.6	54.0	-8.4	Group 6 - Mid Freq