

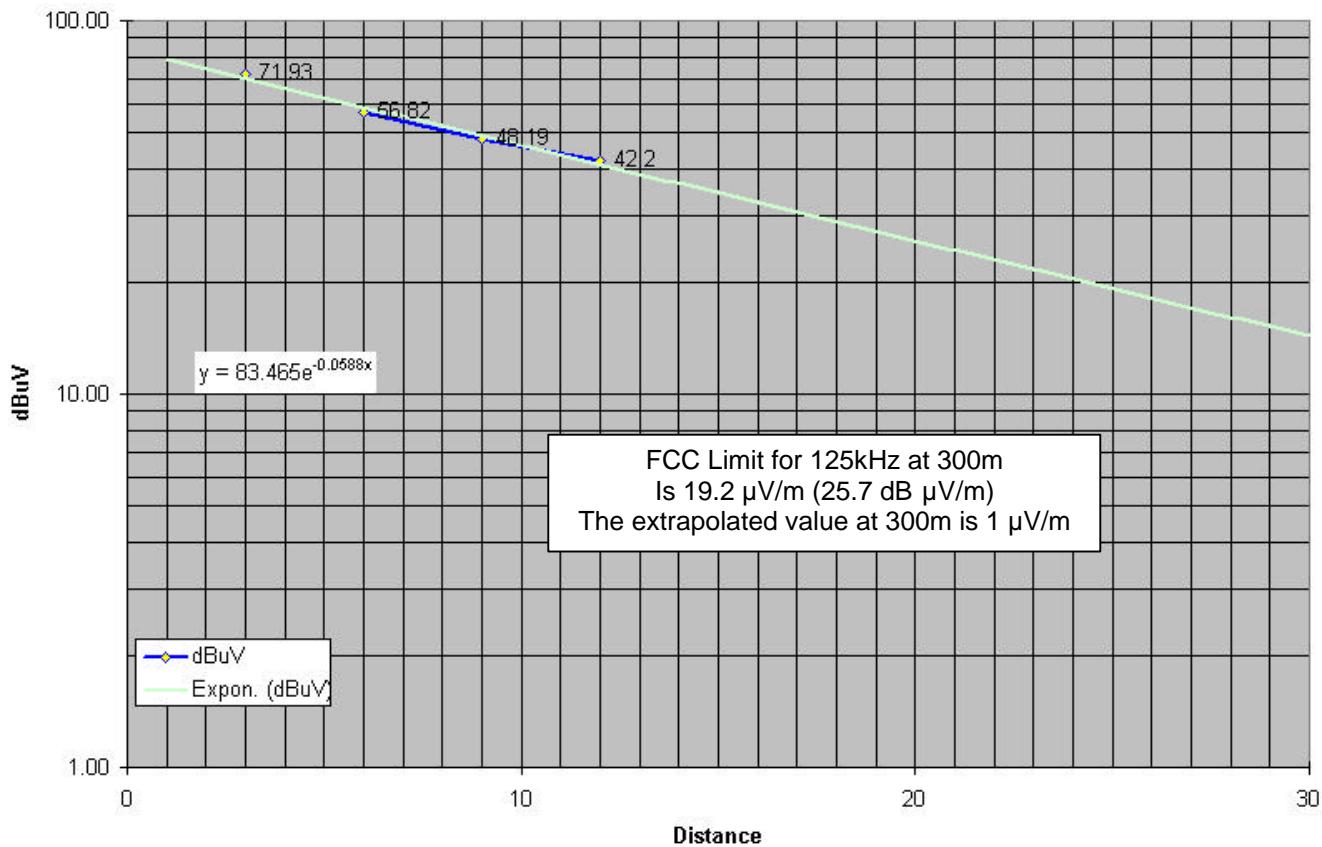


APPENDIX B: TEST DATA

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Loop Antenna - Magnetic Field



See Section 8.2.5 for explanation of calculation for extrapolated data.

Distance in meters	Measured dB μ V	Extrapolated Value from equation in dB μ V	Equivalent value in μ V
1		78.70	8,609.94
2		74.20	5,128.61
3	71.93	69.97	3,151.37
6	56.82	58.65	856.06
9	48.19	49.17	287.41
12	42.20	41.22	115.08
20		25.75	19.20
30		14.30	5.19
300		1.822E-06	1.00

Note: measurements taken at 3m, 6m, 9m, and 12m were compared to the extrapolated values. The differences are 1.8dB or less, validating the equation.

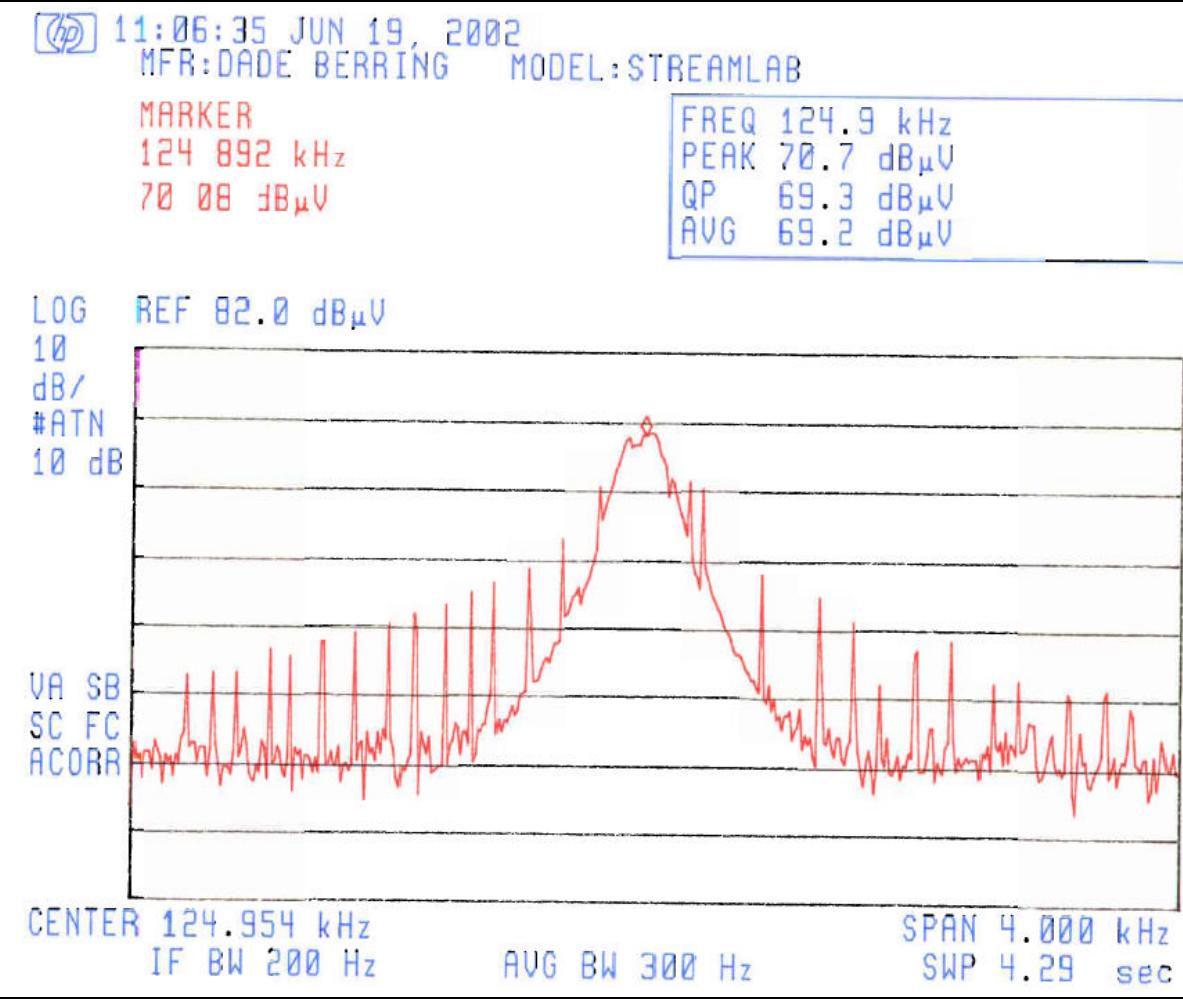
Measured data and extrapolated H-field Plot and Data

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FCCID: QD202785000



NOTES: +20dB
EUT in the open (Test Configuration 1)



ANTENNA/COUPLER:			
<input type="checkbox"/> 9124 Bicon	<input type="checkbox"/> 3109 Bicon	<input type="checkbox"/> CBL6140 X-Wing	<input type="checkbox"/> NNB-4/63TL LISN
<input type="checkbox"/> 3146 Log Per	<input type="checkbox"/> 3115 Horn	<input type="checkbox"/> MDS-21 Clamp	<input type="checkbox"/> NNB-4/200X LISN
<input type="checkbox"/> 3106 Horn	<input type="checkbox"/> CBL6112B Bilog	<input type="checkbox"/> NSLK 8126 LISN	<input checked="" type="checkbox"/> FMZB 1516 Loop
MEAS TYPE:	POLARIZATION:	DISTANCE:	LOCATION:
<input checked="" type="checkbox"/> Radiated Prescan	<input type="checkbox"/> Vertical	<input checked="" type="checkbox"/> 3 Meter	<input type="checkbox"/> OATS
<input type="checkbox"/> Radiated Final	<input type="checkbox"/> Horizontal	<input type="checkbox"/> 10 Meter	<input checked="" type="checkbox"/> Semi-Anechoic
<input type="checkbox"/> Conducted	<input type="checkbox"/> Line	<input type="checkbox"/> _____ Meter	<input type="checkbox"/> Shielded Room
<input type="checkbox"/> Disturbance Power	<input type="checkbox"/> Neutral	<input type="checkbox"/> NA	<input type="checkbox"/> Factory Floor
<input type="checkbox"/> Other _____	<input checked="" type="checkbox"/> NA		<input type="checkbox"/> Other _____

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FCCID: QD202785000



NOTES: +20dB

EUT mounted in enclosure track. 90° Facing antenna (Test configuration #2)



09:19:39 JUN 21, 2002

MFR:DADE BEHRING MODEL: STREAMLAB

REN TRUE

ACTV DET: PEAK

MEAS DET: PEAK QP AVG

MKR 124.99 kHz

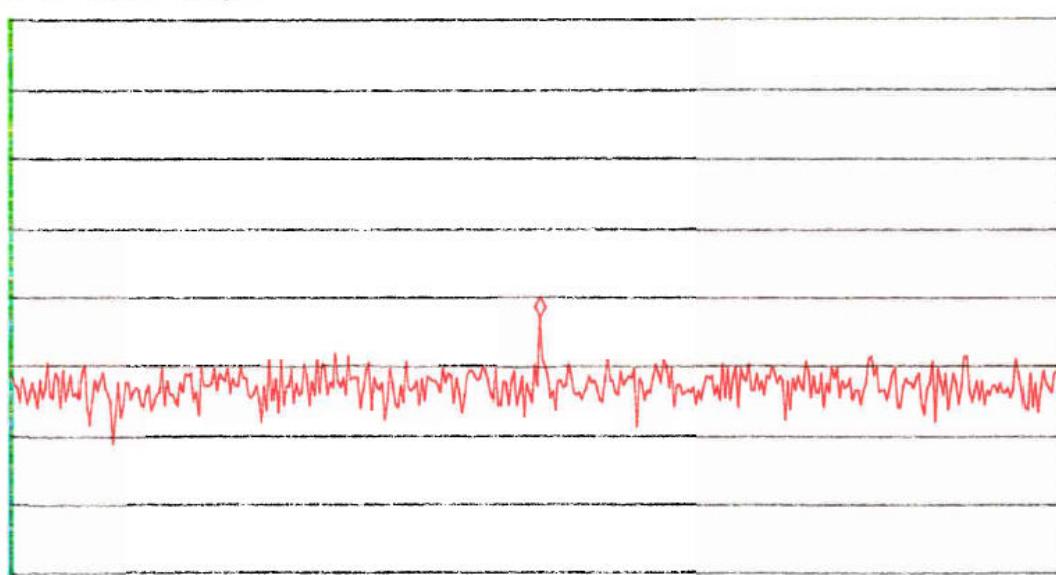
38.97 dB μ VLOG REF 82.0 dB μ V

10

dB/

#ATN

0 dB

VA SB
SC FC
ACORR

START 120.00 kHz

#IF BW 10 Hz

AVG BW 10 Hz

STOP 130.00 kHz

SWP 100 sec

ANTENNA/COUPLER:

9124 Bicon
 3146 Log Per
 3106 Horn

3109 Bicon
 3115 Horn
 CBL6112B Bilog

CBL6140 X-Wing
 MDS-21 Clamp
 NSLK 8126 LISN

NNB-4/63TL LISN
 NNB-4/200X LISN
 FMZB 1516 Loop

MEAS TYPE:

Radiated Prescan
 Radiated Final
 Conducted
 Disturbance Power
 Other _____

POLARIZATION:

Vertical
 Horizontal
 Line
 Neutral
 NA

DISTANCE:

3 Meter
 10 Meter
 _____ Meter
 NA

LOCATION:

OATS
 Semi-Anechoic
 Shielded Room
 Factory Floor
 Other _____

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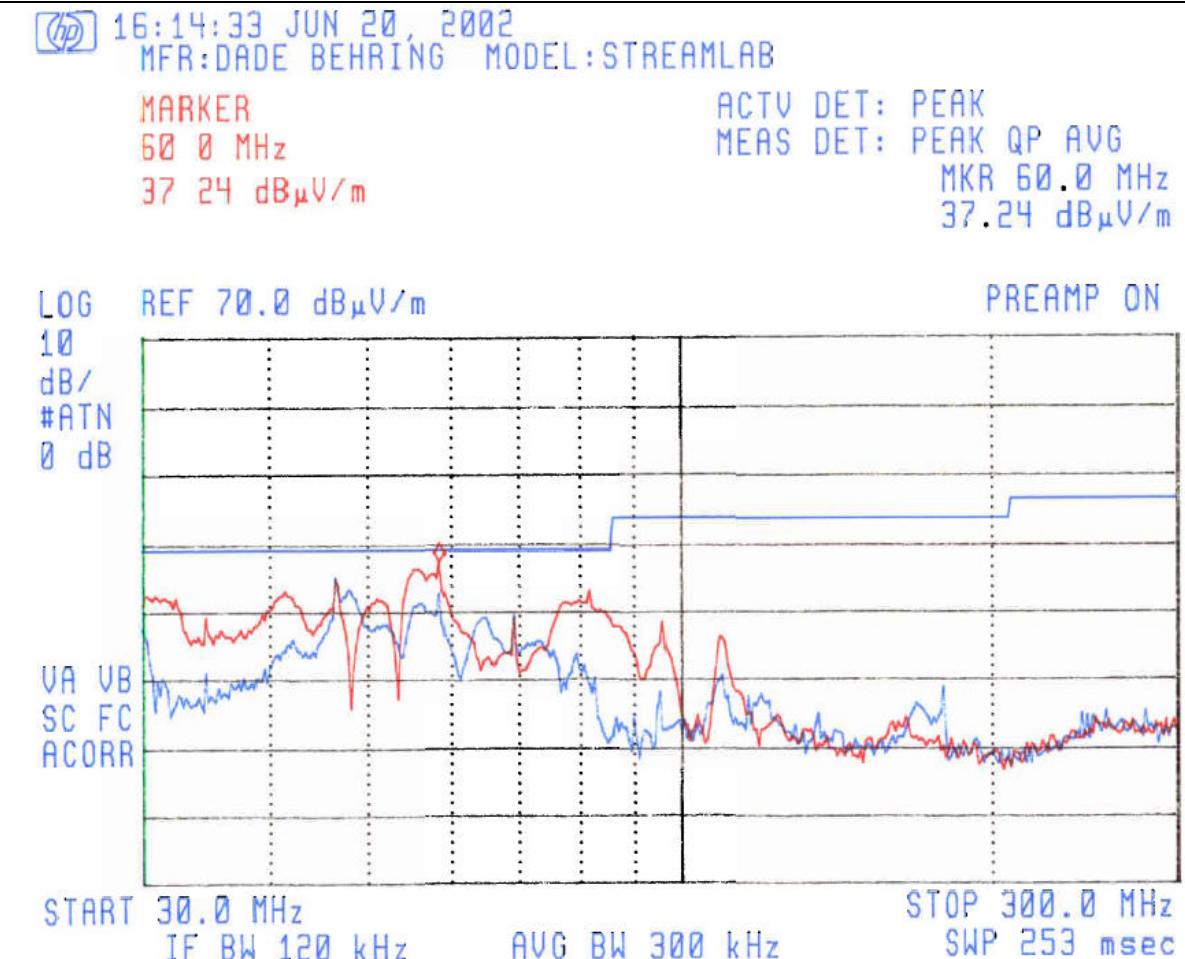
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Radiated Emissions Measurements		PRE SCAN or FINAL		Final OATS			
Standard: 47 CFR 15.109, (2001)	Device Tested:	Distance:	3 meters	Date/Time:	21-Jun-02	File:	02061912.xls
	Transponder mounted in enclosure						
	3 ea Fairrite PN 0431173951 installed, one on each coil wire at the PCB one on DC input wires at PCB						
	Measured Level						
Meas #	Freq (MHz)	Peak	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Δ	Antenna + Cable Correction Factor (included in measured levels)	Antenna Height Angle
1	32.6276	30.90	22.28	15.53	40.00	-17.72	17.41 Vertical 1.5 0°
2	48.0161	35.69	33.39	29.56	40.00	-6.61	9.46 Complied Vertical 1.5 0°
3	50.0517	35.17	33.08	32.42	40.00	-6.92	8.48 Complied Vertical 1.5 0°
4	56.1129	23.76	18.20	12.56	40.00	-21.80	7.04 Complied Vertical 1.5 0°
5	60.0099	23.29	18.75	12.62	40.00	-21.25	6.20 Complied Vertical 1.5 0°
6	83.9839	26.93	21.83	15.11	40.00	-18.17	7.81 Complied Vertical 1.5 0°
Tested by:	Andrew Gaudette						
TUV Rheinland of North America, Inc.		12 Commerce Road	Newtown, CT 06470	Tel: (203) 270-1151	Fax: (203) 426-4009		

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NOTES: FCC part 15.109(a) limits
EUT mounted in enclosure track. 90° Facing antenna (Test configuration #2)



ANTENNA/COUPLER:			
<input type="checkbox"/> 9124 Bicon	<input checked="" type="checkbox"/> 3109 Bicon	<input type="checkbox"/> CBL6140 X-Wing	<input type="checkbox"/> NNB-4/63TL LISN
<input type="checkbox"/> 3146 Log Per	<input type="checkbox"/> 3115 Horn	<input type="checkbox"/> MDS-21 Clamp	<input type="checkbox"/> NNB-4/200X LISN
<input type="checkbox"/> 3106 Horn	<input type="checkbox"/> CBL6112B Bilog	<input type="checkbox"/> NSLK 8126 LISN	<input type="checkbox"/> Other _____
MEAS TYPE:	POLARIZATION:	DISTANCE:	LOCATION:
<input checked="" type="checkbox"/> Radiated Prescan <input type="checkbox"/> Radiated Final <input type="checkbox"/> Conducted <input type="checkbox"/> Disturbance Power <input type="checkbox"/> Other _____	<input checked="" type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Line <input type="checkbox"/> Neutral <input type="checkbox"/> NA	<input checked="" type="checkbox"/> 3 Meter <input type="checkbox"/> 10 Meter <input type="checkbox"/> _____ Meter <input type="checkbox"/> NA	<input type="checkbox"/> OATS <input checked="" type="checkbox"/> Semi-Anechoic <input type="checkbox"/> Shielded Room <input type="checkbox"/> Factory Floor <input type="checkbox"/> Other _____

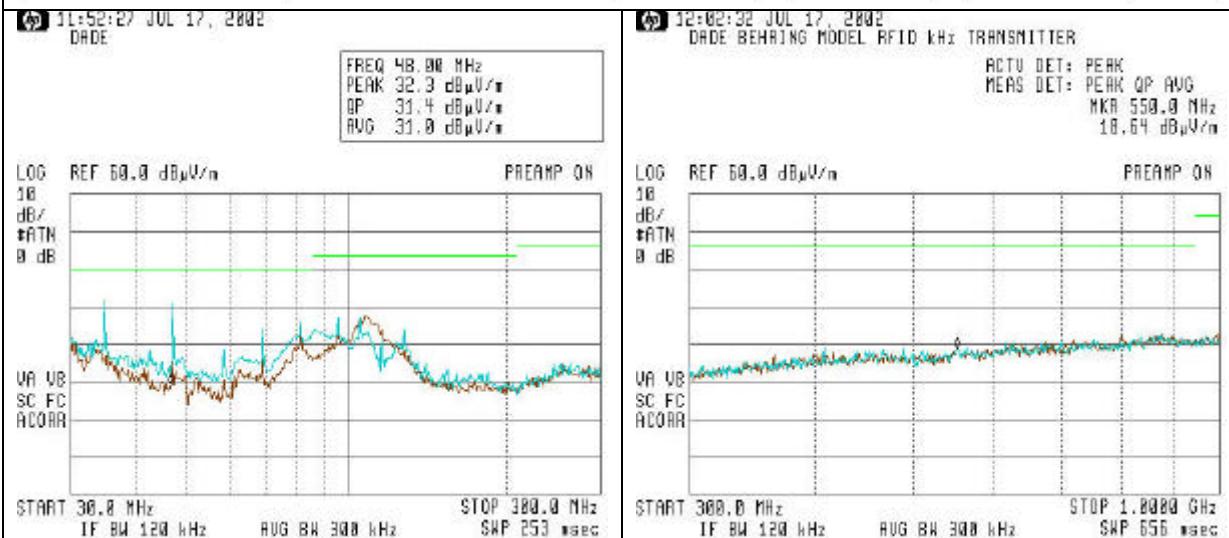
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FCCID: QD202785000



NOTES: FCC part 15.109(a) limits
EUT in the open (Test Configuration 1)

Radiated Emissions Measurements			PRESCAN or FINAL		Final OATS						
Standard: 47 CFR 15.209, (2001)			Distance:		3 meters		Date/Time:		21-Jun-02		
Device Tested: Dade Behring, SteamLab							File:		02061912.xls		
			Transponder mounted in enclosure								
			w/ 3 ea Fairrites PN 0431173951 installed, one on each coil wire at the PCB one on DC input wires at PCB								
			Measured Level								
Meas #	Freq (MHz)	Peak	Quasi-Peak	Average	Quasi-Peak Limit	Quasi-Peak Δ	Antenna + Cable Correction Factor (included in measured levels)	Result	Polarization	Antenna Height	Angle
1	32.6276	30.90	22.28	15.53	40.00	-17.72	17.41	Complied	Vertical	1.5	0°
2	48.0161	35.69	33.39	29.56	40.00	-6.61	9.46	Complied	Vertical	1.5	0°
3	50.0517	35.17	33.08	32.42	40.00	-6.92	8.48	Complied	Vertical	1.5	0°
4	56.1129	23.76	18.20	12.56	40.00	-21.80	7.04	Complied	Vertical	1.5	0°
5	60.0099	23.29	18.75	12.62	40.00	-21.25	6.20	Complied	Vertical	1.5	0°
6	83.9839	26.93	21.83	15.11	40.00	-18.17	7.81	Complied	Vertical	1.5	0°
Tested by:	Andrew Gaudette										
TUV Rheinland of North America, Inc. 12 Commerce Road			Newtown, CT 06470		Tel:(203) 426-0888		Fax: (203) 426-4009				

ANTENNA/COUPLER:

<input type="checkbox"/> 9124 Bicon	<input checked="" type="checkbox"/> 3109 Bicon	<input type="checkbox"/> CBL6140 X-Wing	<input type="checkbox"/> NNB-4/63TL LISN
<input checked="" type="checkbox"/> 3146 Log Per	<input type="checkbox"/> 3115 Horn	<input type="checkbox"/> MDS-21 Clamp	<input type="checkbox"/> NNB-4/200X LISN
<input type="checkbox"/> 3106 Horn	<input type="checkbox"/> CBL6112B Bilog	<input type="checkbox"/> NSLK 8126 LISN	<input type="checkbox"/> Other _____

MEAS TYPE:

Radiated Prescan
 Radiated Final
 Conducted
 Disturbance Power
 Other _____

POLARIZATION:

Vertical
 Horizontal
 Line
 Neutral
 NA

DISTANCE:

3 Meter
 10 Meter
 _____ Meter
 NA

LOCATION:

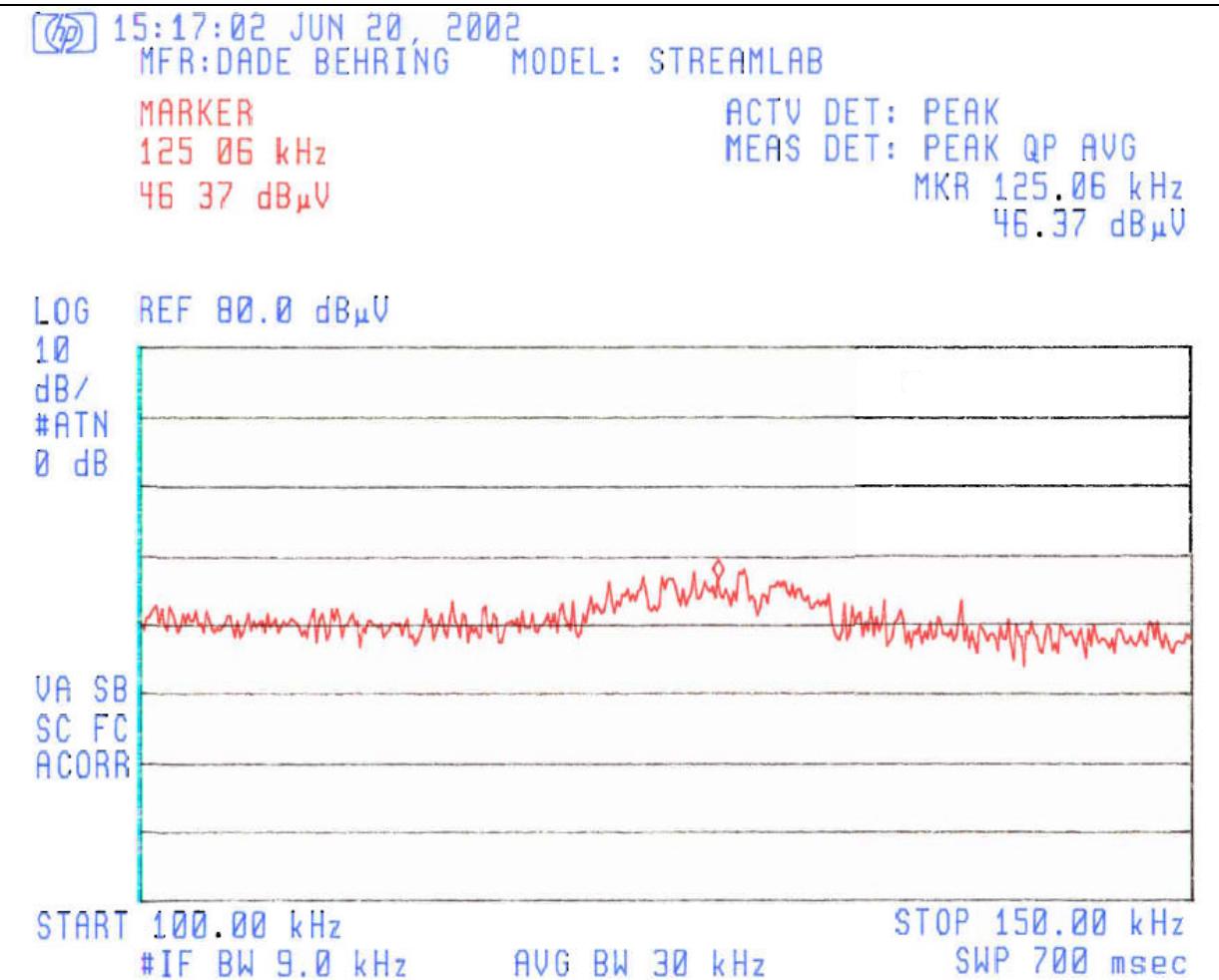
OATS
 Semi-Anechoic
 Shielded Room
 Factory Floor
 Other _____

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NOTES: +20dB

EUT mounted in enclosure track. 90° Facing antenna, Worst case (Test configuration #2)

ANTENNA/COUPLER:

<input type="checkbox"/> 9124 Bicon	<input type="checkbox"/> 3109 Bicon	<input type="checkbox"/> CBL6140 X-Wing	<input type="checkbox"/> NNB-4/63TL LISN
<input type="checkbox"/> 3146 Log Per	<input type="checkbox"/> 3115 Horn	<input type="checkbox"/> MDS-21 Clamp	<input type="checkbox"/> NNB-4/200X LISN
<input type="checkbox"/> 3106 Horn	<input type="checkbox"/> CBL6112B Bilog	<input type="checkbox"/> NSLK 8126 LISN	<input checked="" type="checkbox"/> FMZB 1516 Loop

MEAS TYPE:

Radiated Prescan
 Radiated Final
 Conducted
 Disturbance Power
 Other _____

POLARIZATION:

Vertical
 Horizontal
 Line
 Neutral
 NA

DISTANCE:

3 Meter
 10 Meter
 _____ Meter
 NA

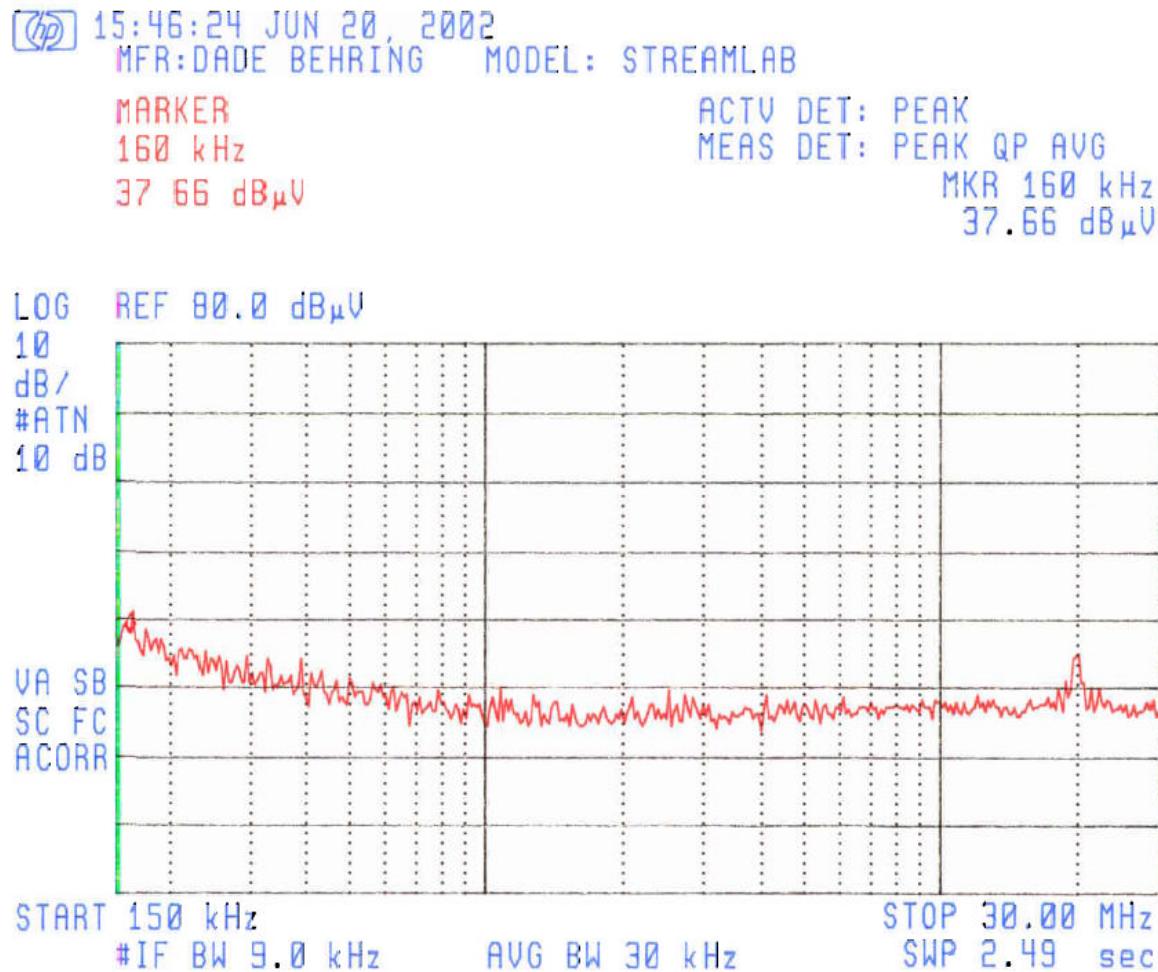
LOCATION:

OATS
 Semi-Anechoic
 Shielded Room
 Factory Floor
 Other _____

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NOTES: +20dB

EUT mounted in enclosure track. 90° Facing antenna, Worst case (Test configuration #2)



ANTENNA/COUPLER:			
<input type="checkbox"/> 9124 Bicon	<input type="checkbox"/> 3109 Bicon	<input type="checkbox"/> CBL6140 X-Wing	<input type="checkbox"/> NNB-4/63TL LISN
<input type="checkbox"/> 3146 Log Per	<input type="checkbox"/> 3115 Horn	<input type="checkbox"/> MDS-21 Clamp	<input type="checkbox"/> NNB-4/200X LISN
<input type="checkbox"/> 3106 Horn	<input type="checkbox"/> CBL6112B Bilog	<input type="checkbox"/> NSLK 8126 LISN	<input checked="" type="checkbox"/> FMZB 1516 Loop
MEAS TYPE:		POLARIZATION:	
<input checked="" type="checkbox"/> Radiated Prescan <input type="checkbox"/> Radiated Final <input type="checkbox"/> Conducted <input type="checkbox"/> Disturbance Power <input type="checkbox"/> Other _____		<input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal <input type="checkbox"/> Line <input type="checkbox"/> Neutral <input checked="" type="checkbox"/> NA	
DISTANCE:		LOCATION:	
<input checked="" type="checkbox"/> 3 Meter <input type="checkbox"/> 10 Meter <input type="checkbox"/> _____ Meter <input type="checkbox"/> NA		<input type="checkbox"/> OATS <input checked="" type="checkbox"/> Semi-Anechoic <input type="checkbox"/> Shielded Room <input type="checkbox"/> Factory Floor <input type="checkbox"/> Other _____	

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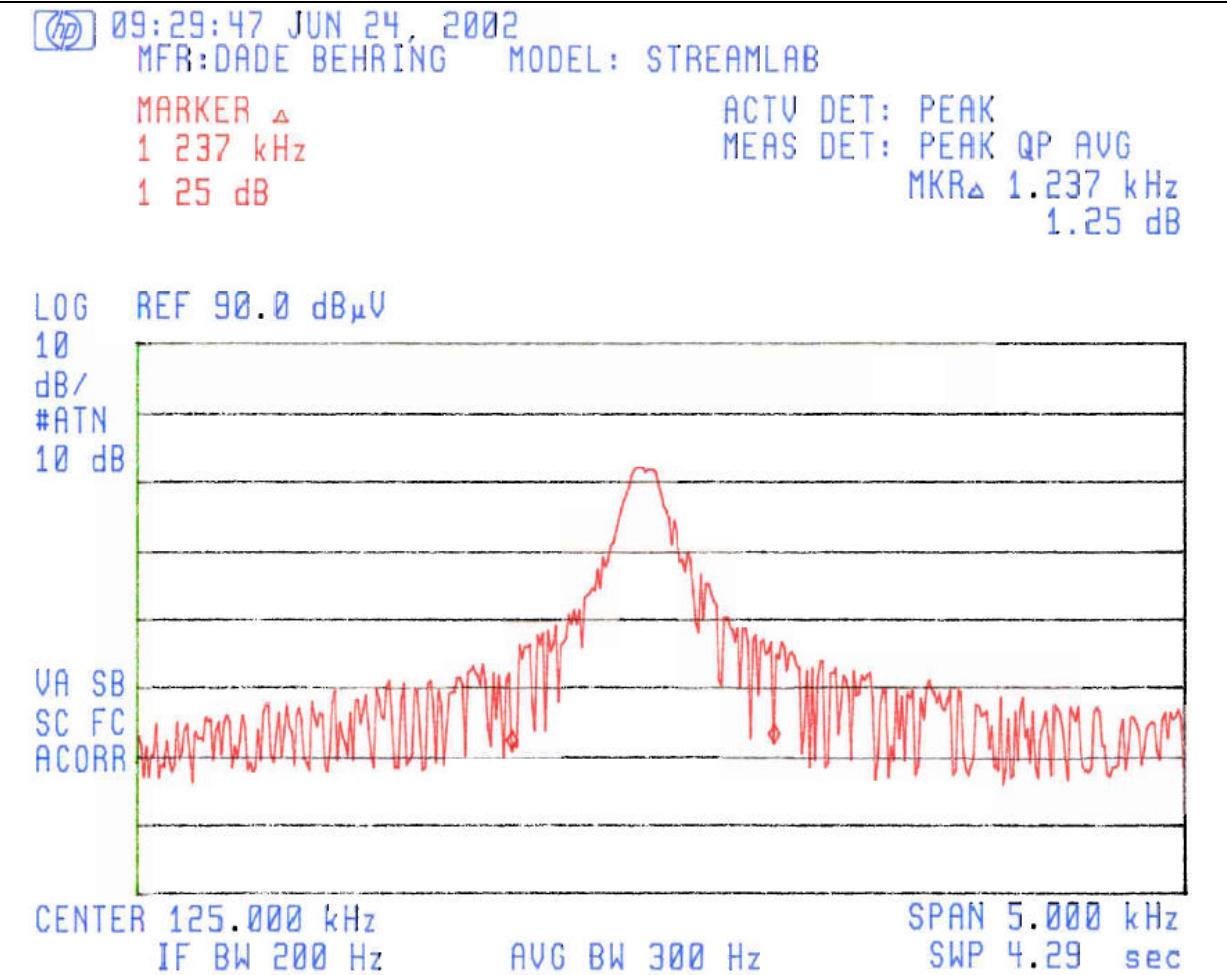
TUV Rheinland of North America, Inc., North American Headquarters, 12 Commerce Road, Newtown, CT 06470 - Tel (203)426-0888 - Fax (203)426-4009

FCCID: QD202785000



NOTES: +20 dB

Transponder free standing. Transmitting Frequency showing band width of 1.24 kHz
(Test configuration #1)

ANTENNA/COUPLER:

<input type="checkbox"/> 9124 Bicon	<input type="checkbox"/> 3109 Bicon	<input type="checkbox"/> CBL6140 X-Wing	<input type="checkbox"/> NNB-4/63TL LISN
<input type="checkbox"/> 3146 Log Per	<input type="checkbox"/> 3115 Horn	<input type="checkbox"/> MDS-21 Clamp	<input type="checkbox"/> NNB-4/200X LISN
<input type="checkbox"/> 3106 Horn	<input type="checkbox"/> CBL6112B Bilog	<input type="checkbox"/> NSLK 8126 LISN	<input checked="" type="checkbox"/> FMZB 1516 Loop

MEAS TYPE:

Radiated Prescan
 Radiated Final
 Conducted
 Disturbance Power
 Other _____

POLARIZATION:

Vertical
 Horizontal
 Line
 Neutral
 NA

DISTANCE:

3 Meter
 10 Meter
 _____ Meter
 NA

LOCATION:

OATS
 Semi-Anechoic
 Shielded Room
 Factory Floor
 Other _____

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FCCID: QD202785000

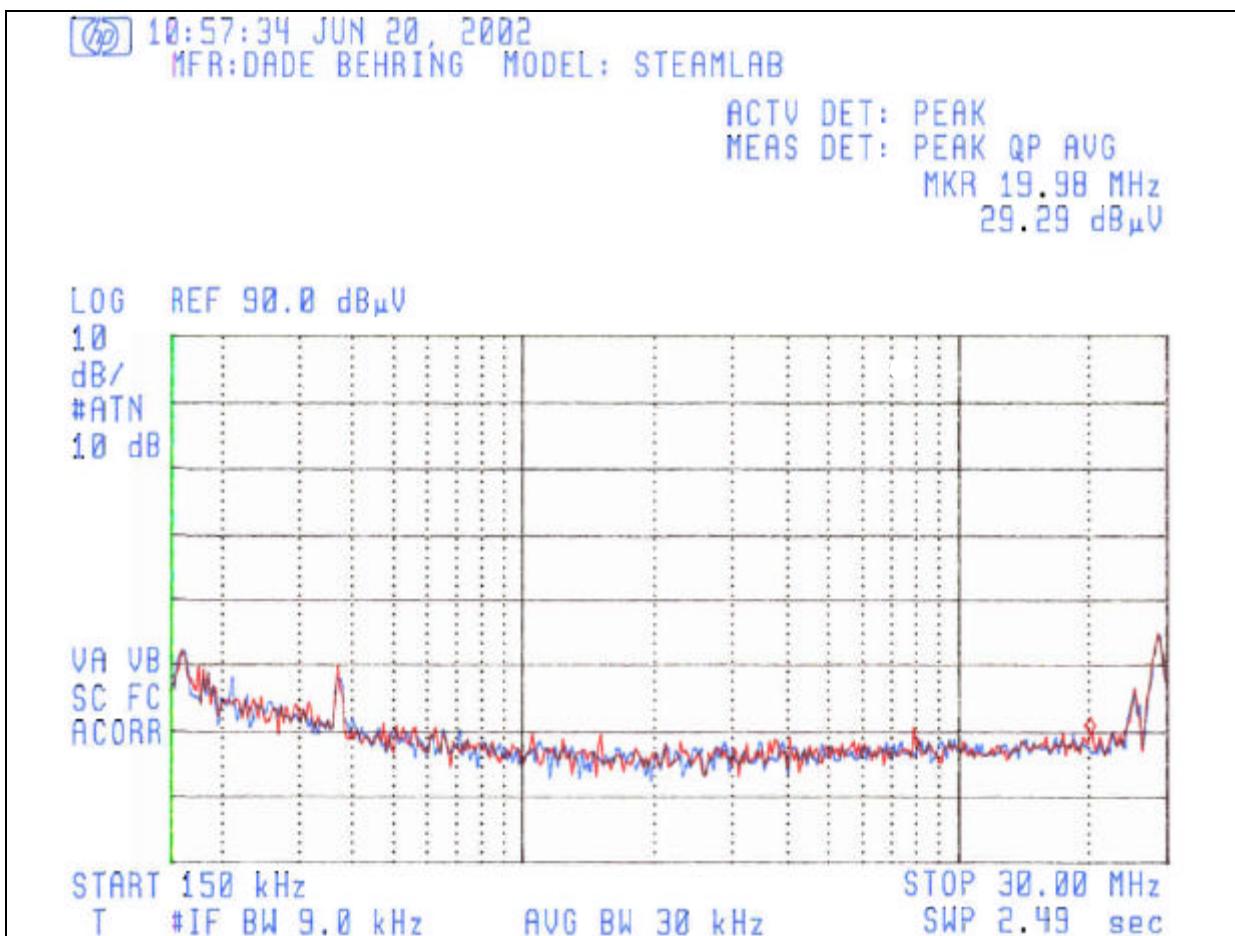


NOTES: +20 dB

Red trace = without transponder coils

Blue trace = with transponder coils

Transponder free standing. (Test configuration #1)



ANTENNA/COUPLER:

<input type="checkbox"/> 9124 Bicon	<input type="checkbox"/> 3109 Bicon	<input type="checkbox"/> CBL6140 X-Wing	<input type="checkbox"/> NNB-4/63TL LISN
<input type="checkbox"/> 3146 Log Per	<input type="checkbox"/> 3115 Horn	<input type="checkbox"/> MDS-21 Clamp	<input type="checkbox"/> NNB-4/200X LISN
<input type="checkbox"/> 3106 Horn	<input type="checkbox"/> CBL6112B Bilog	<input type="checkbox"/> NSLK 8126 LISN	<input checked="" type="checkbox"/> FMZB 1516 Loop

MEAS TYPE:

Radiated Prescan
 Radiated Final
 Conducted
 Disturbance Power
 Other _____

POLARIZATION:

Vertical
 Horizontal
 Line
 Neutral
 NA

DISTANCE:

3 Meter
 10 Meter
 _____ Meter
 NA

LOCATION:

OATS
 Semi-Anechoic
 Shielded Room
 Factory Floor
 Other _____

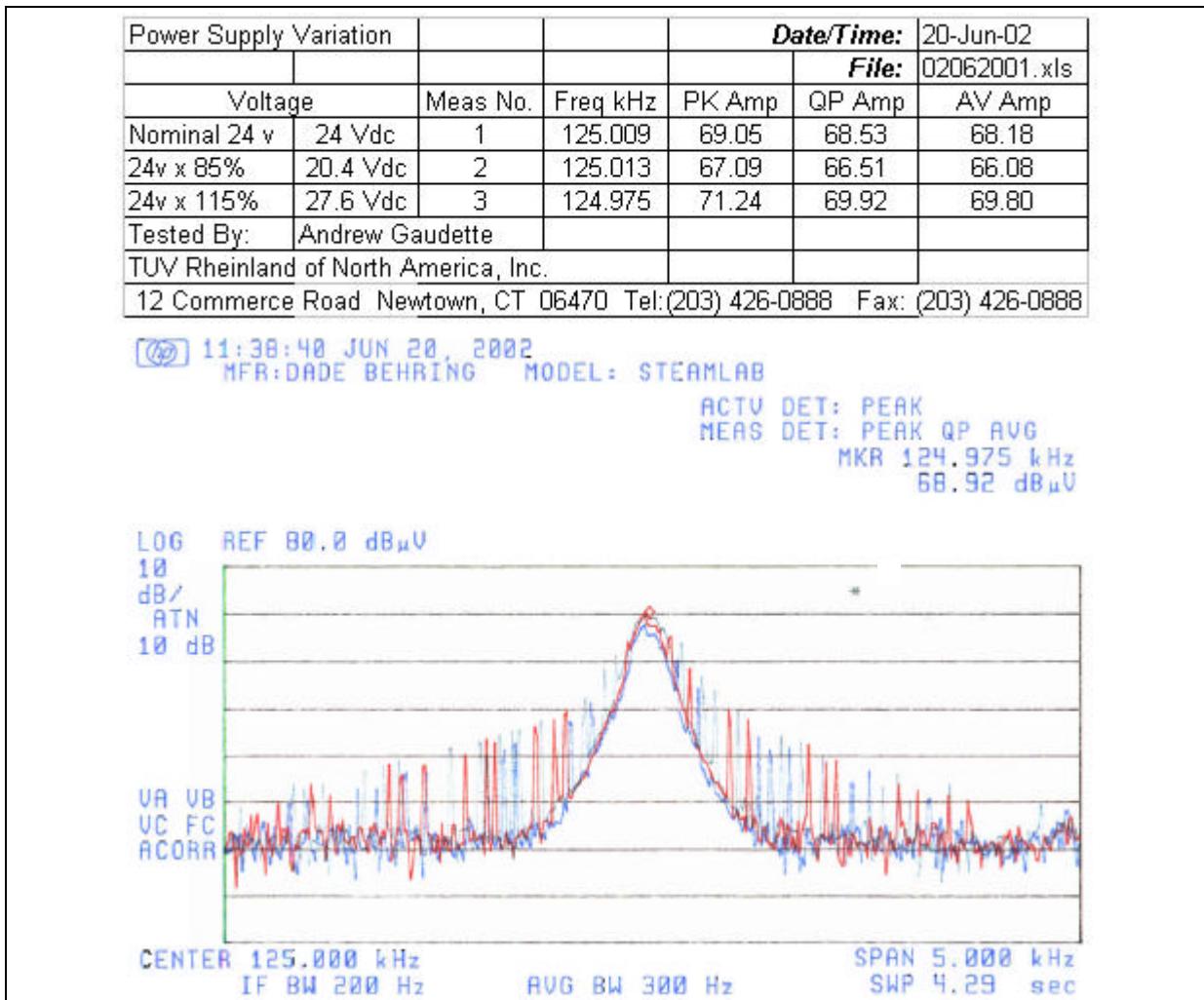
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FCCID: QD202785000



NOTES: Section 15.31(e) Frequency and field strength variation as a function of 85% - 115% power supply variation Voltage Variation
 Red = nominal voltage 24 VDC
 Blue = 85%, 20.4 VDC
 Green = 115%, 27.6 VDC



ANTENNA/COUPLER:			
<input type="checkbox"/> 9124 Bicon	<input type="checkbox"/> 3109 Bicon	<input type="checkbox"/> CBL6140 X-Wing	<input type="checkbox"/> NNB-4/63TL LISN
<input type="checkbox"/> 3146 Log Per	<input type="checkbox"/> 3115 Horn	<input type="checkbox"/> MDS-21 Clamp	<input type="checkbox"/> NNB-4/200X LISN
<input type="checkbox"/> 3106 Horn	<input type="checkbox"/> CBL6112B Bilog	<input type="checkbox"/> NSLK 8126 LISN	<input checked="" type="checkbox"/> FMZB 1516 Loop
MEAS TYPE:	POLARIZATION:	DISTANCE:	LOCATION:
<input checked="" type="checkbox"/> Radiated Prescan <input type="checkbox"/> Radiated Final <input type="checkbox"/> Conducted <input type="checkbox"/> Disturbance Power <input type="checkbox"/> Other _____	<input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Line <input type="checkbox"/> Neutral <input type="checkbox"/> NA	<input checked="" type="checkbox"/> 3 Meter <input type="checkbox"/> 10 Meter <input type="checkbox"/> _____ Meter <input type="checkbox"/> NA	<input type="checkbox"/> OATS <input checked="" type="checkbox"/> Semi-Anechoic <input type="checkbox"/> Shielded Room <input type="checkbox"/> Factory Floor <input type="checkbox"/> Other _____

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FCCID: QD202785000



NOTES: +20 dB

11:06:35 JUN 19, 2002
 MFR:DADE BERRING MODEL:STREAMLAB

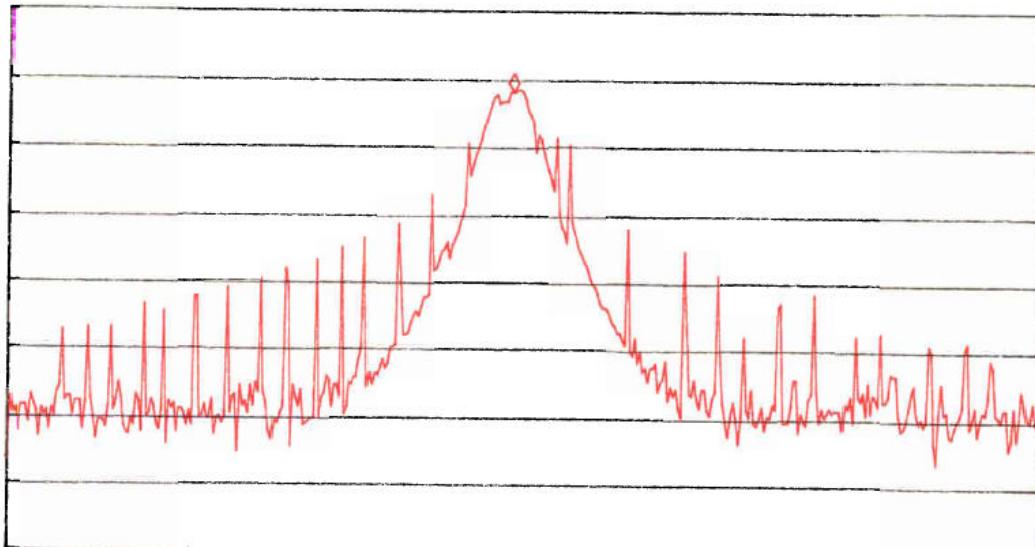
MARKER
 124.892 kHz
 70.08 dB μ V

FREQ 124.9 kHz
 PEAK 70.7 dB μ V
 QP 69.3 dB μ V
 AVG 69.2 dB μ V

LOG REF 82.0 dB μ V

10
 dB/
 #ATN
 10 dB

VA SB
 SC FC
 ACORR



CENTER 124.954 kHz
 IF BW 200 Hz

AUG BW 300 Hz

SPAN 4.000 kHz
 SWP 4.29 sec

ANTENNA/COUPLER:

9124 Bicon
 3146 Log Per
 3106 Horn

3109 Bicon
 3115 Horn
 CBL6112B Bilog

CBL6140 X-Wing
 MDS-21 Clamp
 NSLK 8126 LISN

NNB-4/63TL LISN
 NNB-4/200X LISN
 FMZB 1516 Loop

MEAS TYPE:

Radiated Prescan
 Radiated Final
 Conducted
 Disturbance Power
 Other _____

POLARIZATION:

Vertical
 Horizontal
 Line
 Neutral
 NA

DISTANCE:

3 Meter
 10 Meter
 _____ Meter
 NA

LOCATION:

OATS
 Semi-Anechoic
 Shielded Room
 Factory Floor
 Other _____

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Conducted Emissions Measurements							Date: 17 JULY 2002
Standard: 47 CFR 15.207							File: 02071701.xls
Device Tested: Dade Behring Model RFID 125 kHz Transmitter							
Signal Num	Freq MHz	Peak Amp dBuV	QP Amp dBuV	Avg Amp dBuV	QP Limit dBuV	Conductor	QP Δ dB
1	0.4717	47.36	47.28	47.24	48.00	Line	-0.72
2	1.2769	45.12	44.98	44.99	48.00	Line	-3.02
3	2.8811	44.72	44.01	43.54	48.00	Line	-3.99
4	6.0944	43.31	42.21	41.17	48.00	Line	-5.79
5	19.1239	39.72	36.95	30.69	48.00	Line	-11.05
6	22.7598	43.04	41.35	38.05	48.00	Line	-6.65
7	0.4857	47.95	47.89	47.87	48.00	Neutral	-0.11
8	1.2991	45.55	43.22	43.26	48.00	Neutral	-4.78
9	2.7575	42.64	42.49	42.48	48.00	Neutral	-5.51
10	5.6793	42.85	42.56	42.46	48.00	Neutral	-5.44
11	20.9457	46.90	45.32	44.82	48.00	Neutral	-2.68
12	23.8736	44.87	42.45	38.42	48.00	Neutral	-5.55

Tested by: Mark Ryan

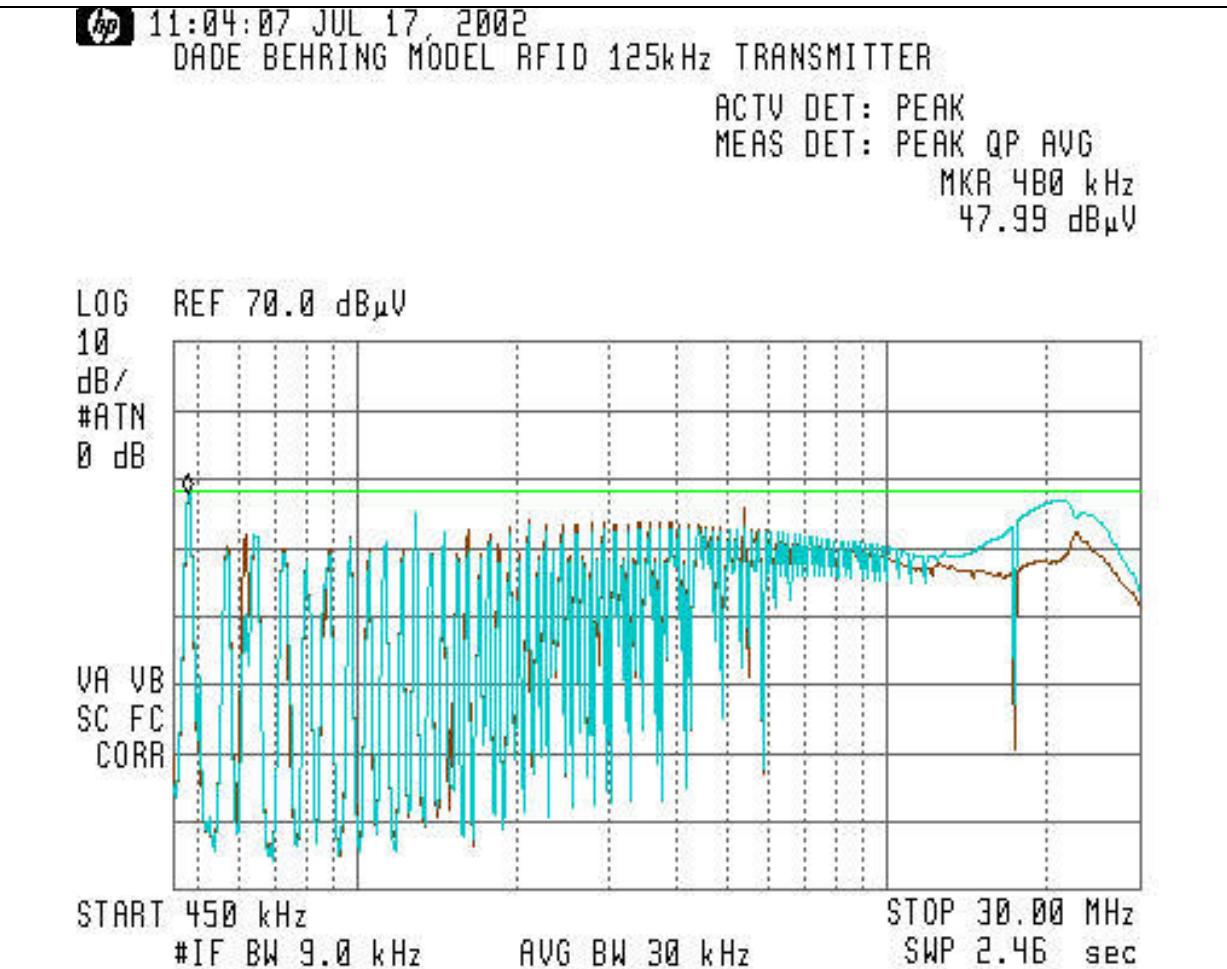
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel (203) 426-0888 Fax (203) 426-4009

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NOTES:

FCC part 15.107(a) limits. Fairrite PN 0431173951 on coil cables and on DC input, choke – API Delevan series 9565 (2.5 A) installed on DC input



<u>ANTENNA/COUPLER:</u>			
<input type="checkbox"/> 9124 Bicon	<input type="checkbox"/> 3109 Bicon	<input type="checkbox"/> CBL6140 X-Wing	<input type="checkbox"/> NNB-4/63TL LISN
<input type="checkbox"/> 3146 Log Per	<input type="checkbox"/> 3115 Horn	<input type="checkbox"/> MDS-21 Clamp	<input type="checkbox"/> NNB-4/200X LISN
<input type="checkbox"/> 3106 Horn	<input type="checkbox"/> CBL6112B Bilog	<input checked="" type="checkbox"/> NSLK 8126 LISN	<input type="checkbox"/> Other _____
<u>MEAS TYPE:</u>		<u>POLARIZATION:</u>	
<input type="checkbox"/> Radiated Prescan <input type="checkbox"/> Radiated Final <input checked="" type="checkbox"/> Conducted <input type="checkbox"/> Disturbance Power <input type="checkbox"/> Other _____		<input type="checkbox"/> Vertical <input type="checkbox"/> Horizontal <input checked="" type="checkbox"/> Line <input checked="" type="checkbox"/> Neutral <input type="checkbox"/> NA	
<u>DISTANCE:</u>		<u>LOCATION:</u>	
<input checked="" type="checkbox"/> 3 Meter <input type="checkbox"/> 10 Meter <input type="checkbox"/> _____ Meter <input type="checkbox"/> NA		<input type="checkbox"/> OATS <input type="checkbox"/> Semi-Anechoic <input checked="" type="checkbox"/> Shielded Room <input type="checkbox"/> Factory Floor <input type="checkbox"/> Other _____	

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APPENDIX C: PHOTOGRAPHS



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APPENDIX D: CONSTRUCTIONAL DATA FORM

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TUV Rheinland D-51101 Köln 91 Am Grauen Stein/ Konstantin-Wille-Str. 1		Please submit in duplicate		
		Gen-Ausw-Nr.	Aktenzeichen:	Anlage-Nr. 1 of 2
		941/MR/cl/P2271229.01		
EMC/EMV Constructional Data Form				
Name:	Applicant	Factory	Representative in the EU	
Name:	Thomas Kimble			
Company:	Dade Behring, Inc.	Same as applicant	Same as applicant	
Address:	Route 896, Bldg. 500 Newark, DE 19714			
Phone/Fax	(302) 631-7410 / (302) 631-9716			
Product Description/Application: Transponder Unit				
Model Name and No.: StreamLab				
Serial No.: NA				
Operating Modes: EUT was operated at DC 24 V, during the test. The EUT was be operated continuously.				
Type of EMI (i.e., wide band, narrow band, clicks): N/A		Rated Voltage, Current, and Frequency: DC 21-26 V		
Protection Class: SLV		Repetition Frequency (<10kHz, >10kHz): N/A		
TUV Rheinland Prüfstelle für Gerätesicherheit Köln, den		Applicant (Ort/place) (Datum/date)		
(Report Copy Not Signed)		(Report Copy Not Signed)		
TUV Rheinland Prüfstelle für Gerätesicherheit		(Stempel und Unterschrift des Antragstellers/ stamp and signature of applicant)		

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