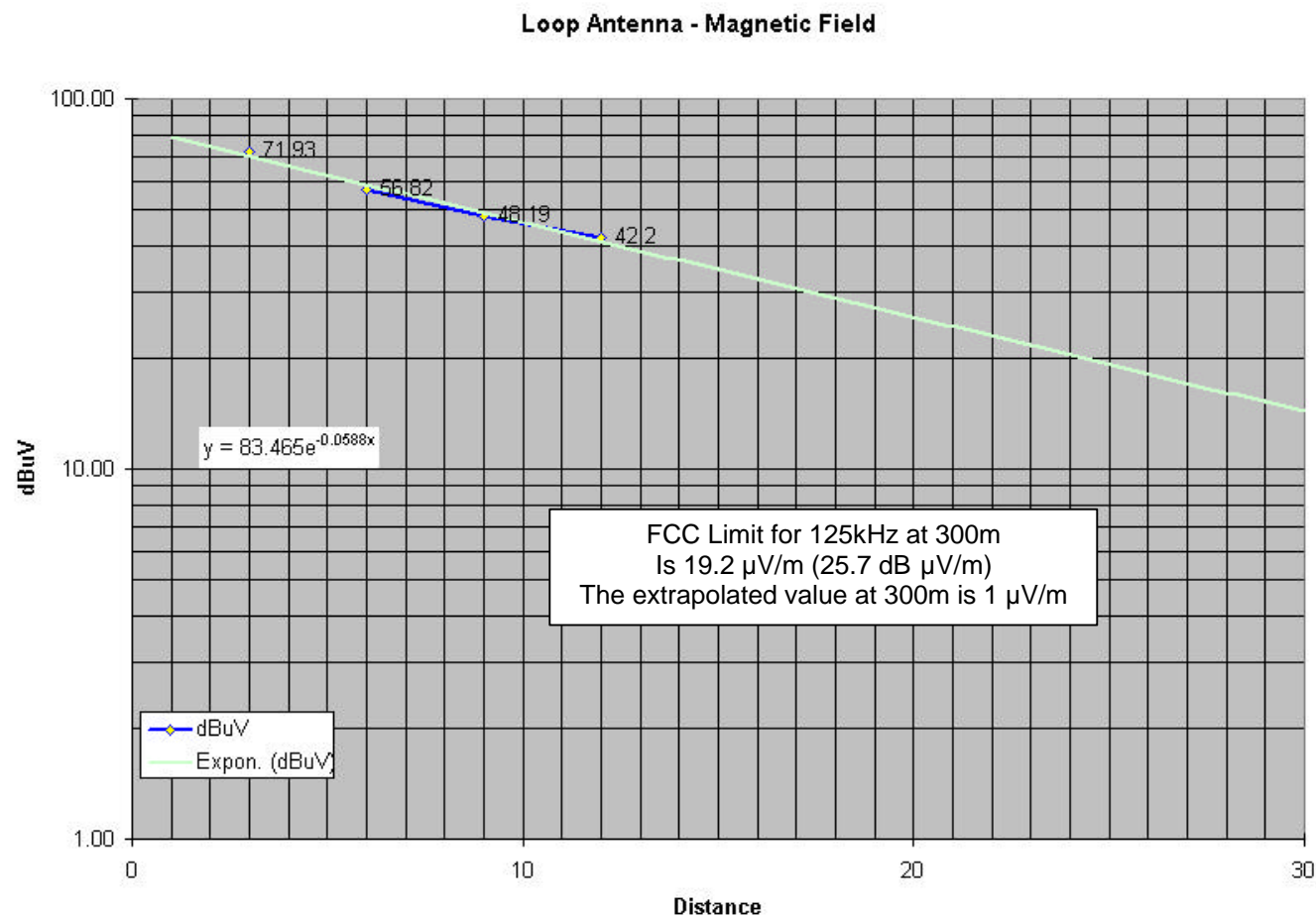




APPENDIX B: TEST DATA

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Distance in meters	Measured dB μV	Extrapolated Value from equation in dB μV	Equivalent value in μV
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

See Section 8.2.5 for explanation of calculation for extrapolated data.

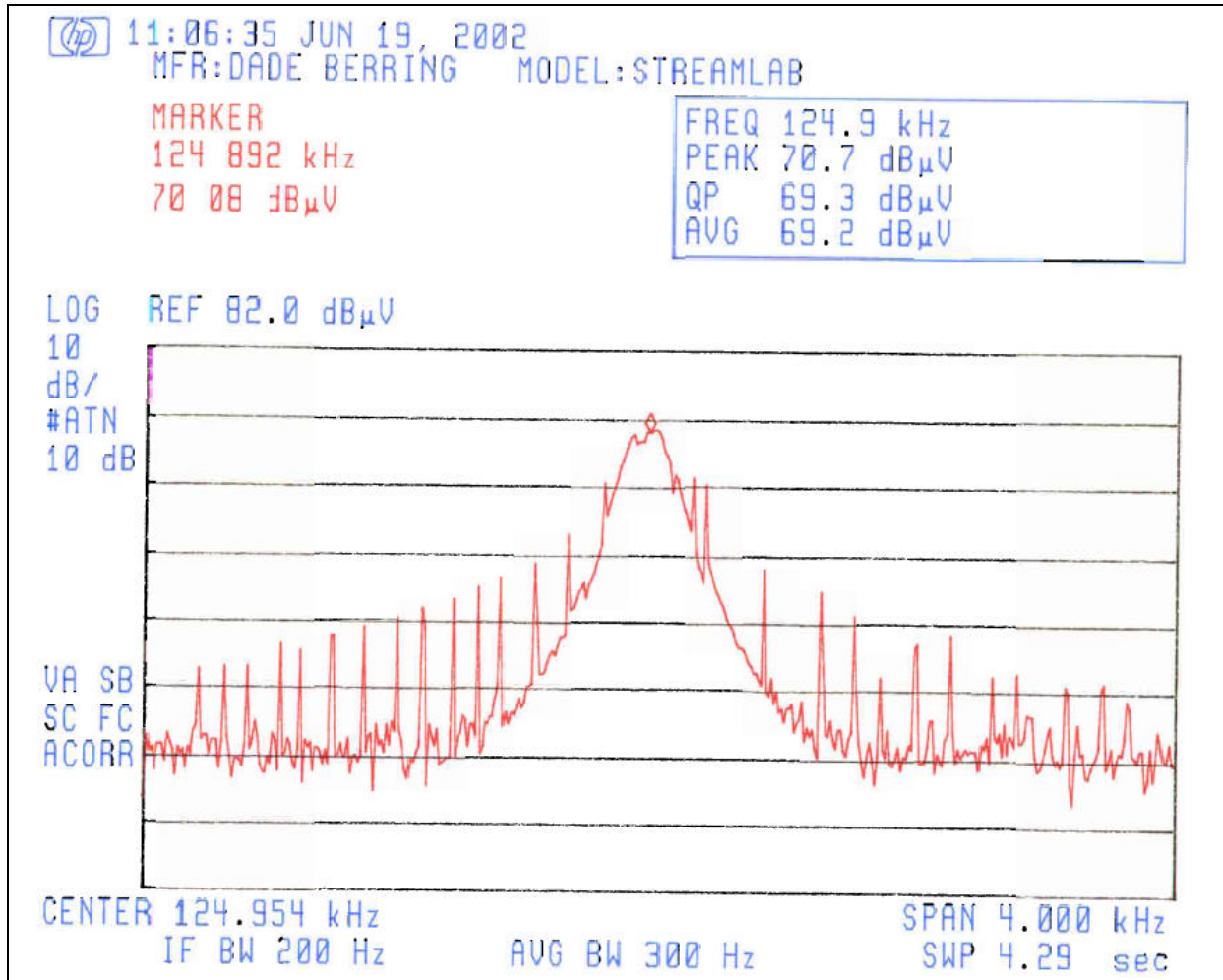
Note: measurements taken at 3m, 6m, 9m, and 12m were compared to the extrapolated values. The differences are 1.8dB or less, validating the equation.

Measured data and extrapolated H-field Plot and Data

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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:

- ☒ 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 _____

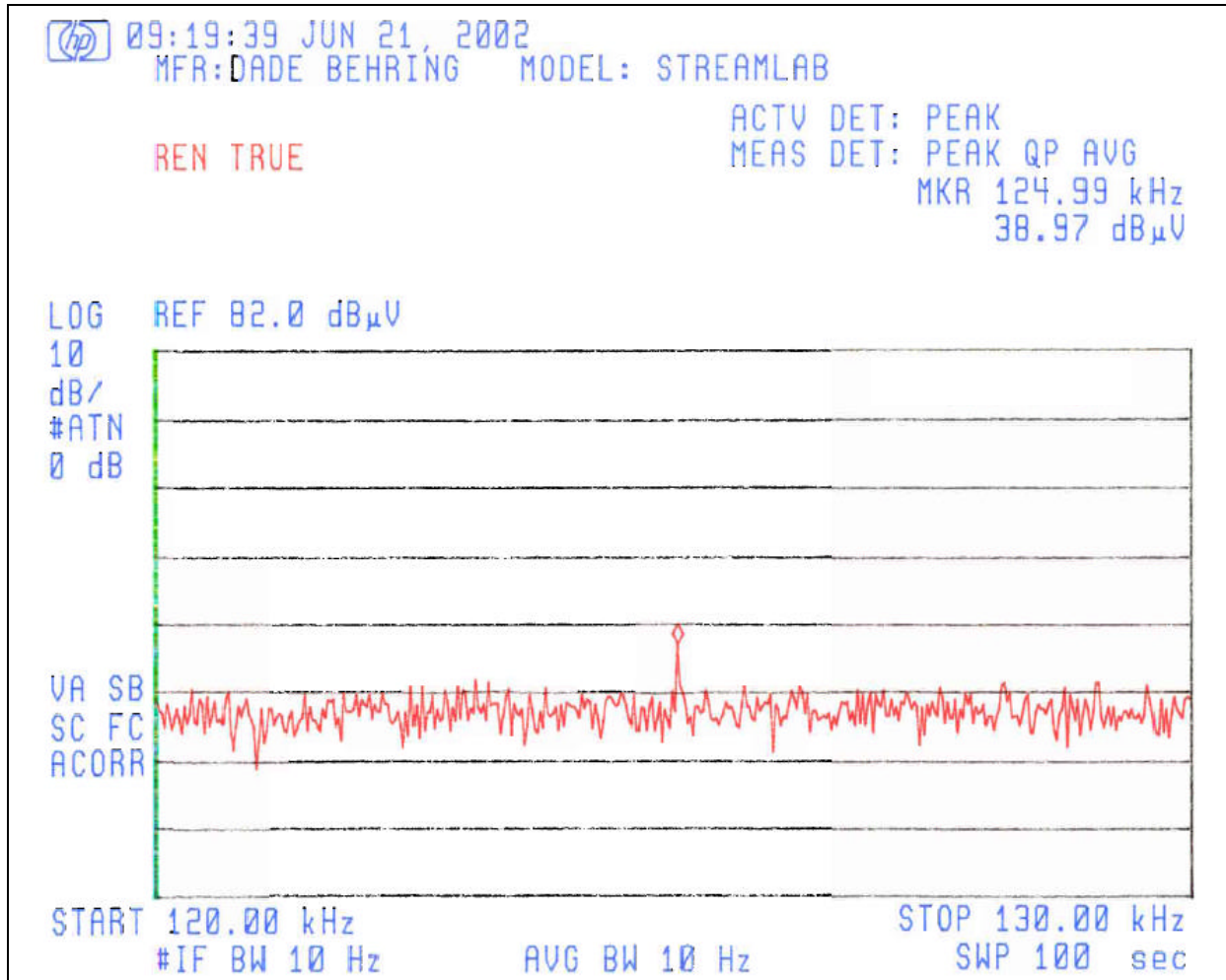
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NOTES: +20dB

EUT mounted in enclosure track. 90° Facing antenna (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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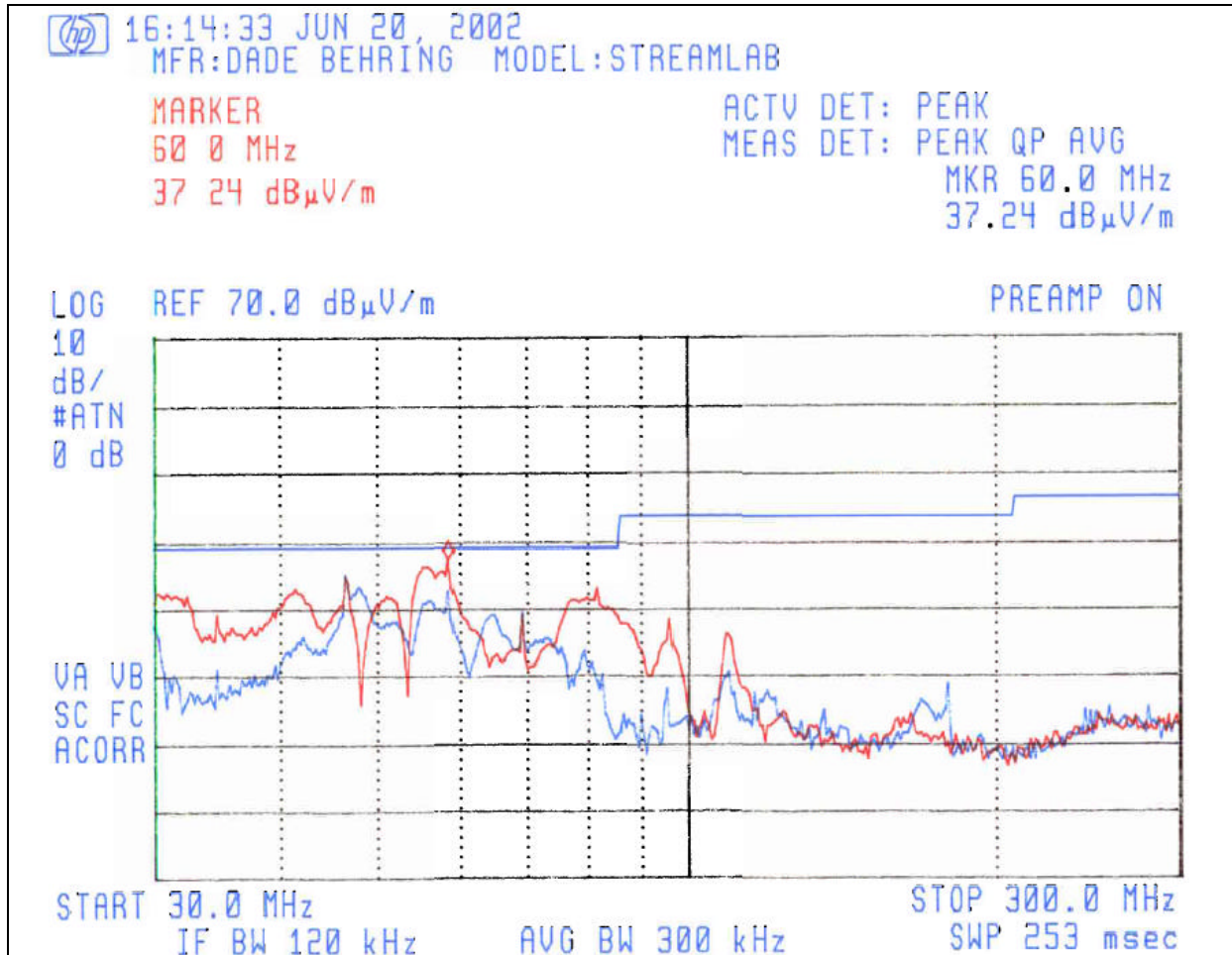
Radiated Emissions Measurements			PRESCAN or FINAL		Final OATS				
Standard: 47 CFR 15.109, (2001)			Distance:		3 meters		Date/Time: 21-Jun-02		
Device Tested: Dade Behring, SteamLab							File: 02061912.xls		
Transponder mounted in enclosure									
3 ea Fairrites PN 0431173951 installed, one on each coil wire at the PCB one on DC input wires at PCB									
			Measured Level				Antenna + Cable Correction Factor (included in measured levels)		

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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:

- ☒ 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 _____

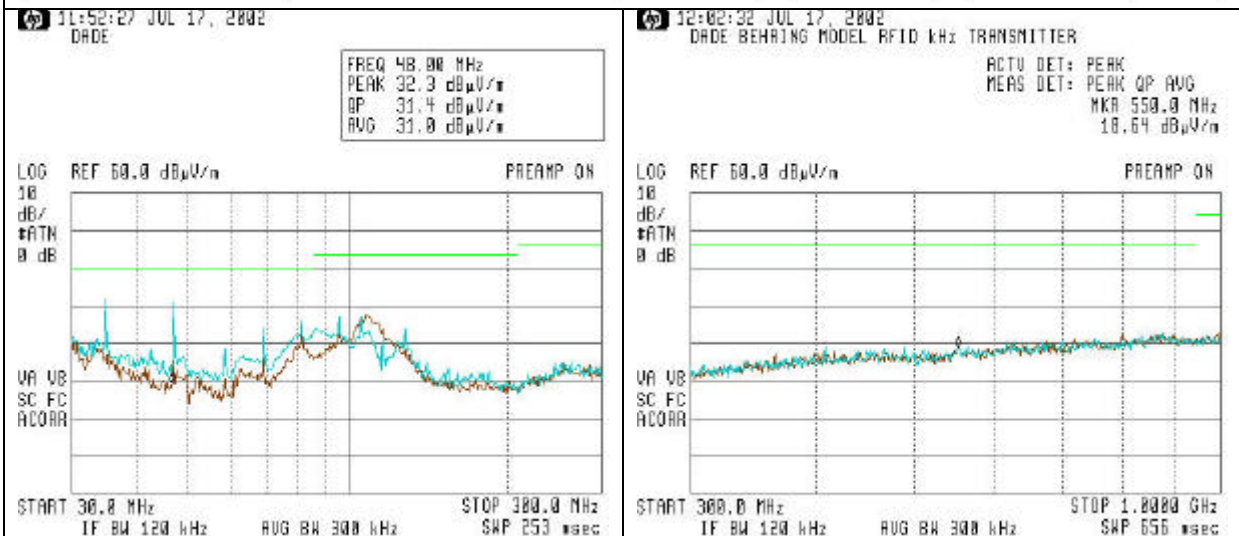
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NOTES: FCC part 15.109(a) limits
EUT in the open (Test Configuration 1)

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 Fairites PN 0431173951 installed, one on each coil wire at the PCB one on DC input wires at PCB									
				Measured Level									
						Antenna + Cable Correction Factor (included in measured levels)							
Meas #		Freq (MHz)	Peak	Quasi-Peak	Average	Quasi-Peak Limit	Quasi-Peak Δ		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 _____

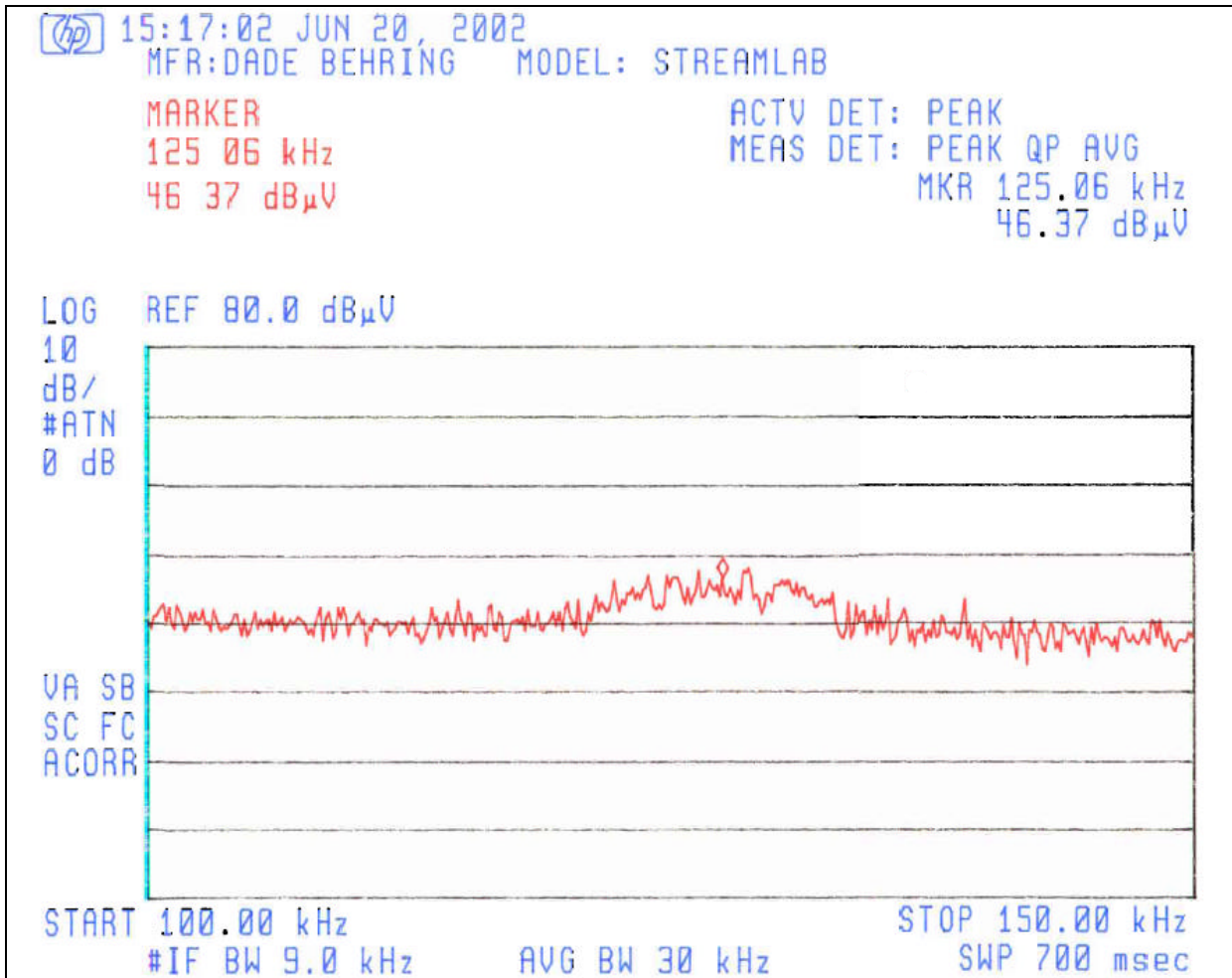
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NOTES: +20dB

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 _____

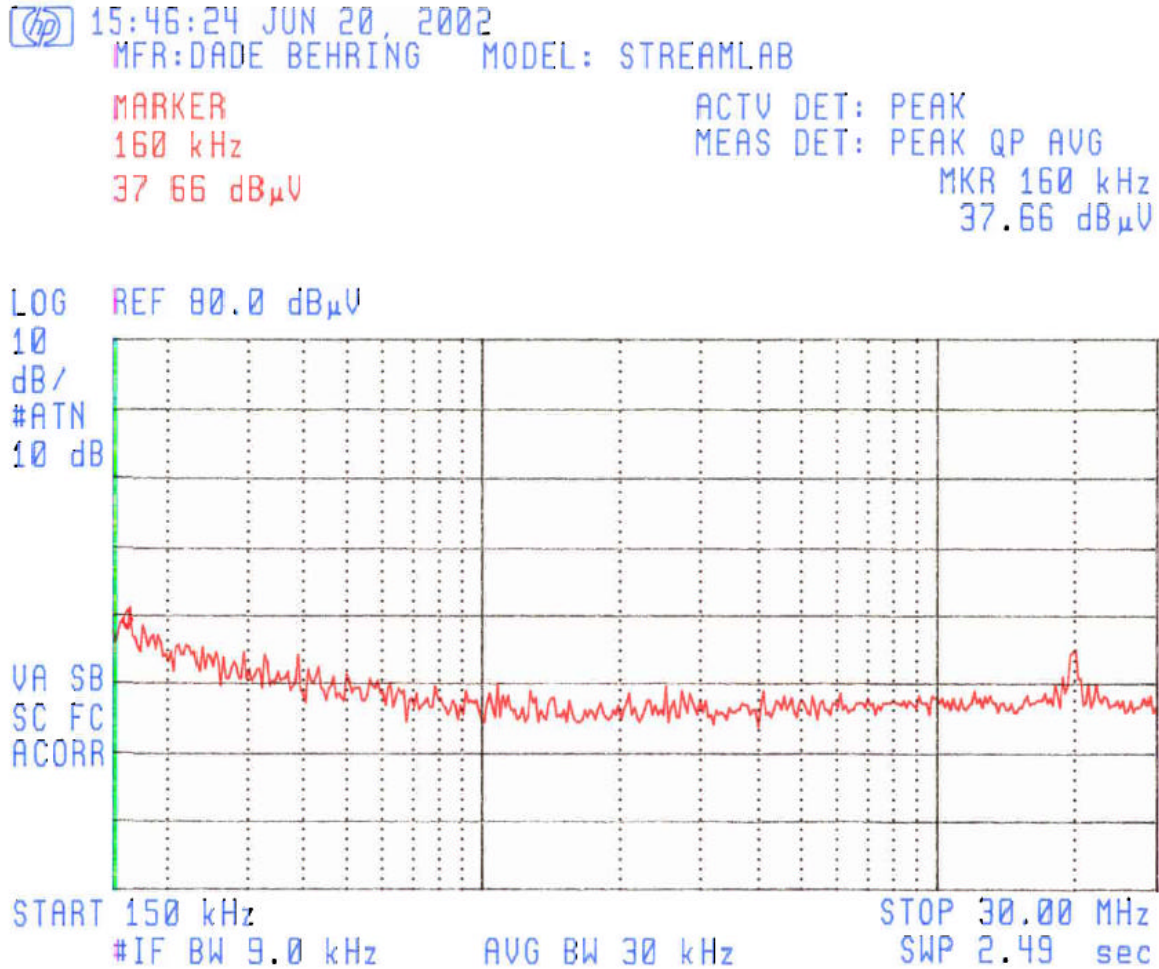
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NOTES: +20dB

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:

- ☒ 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 _____

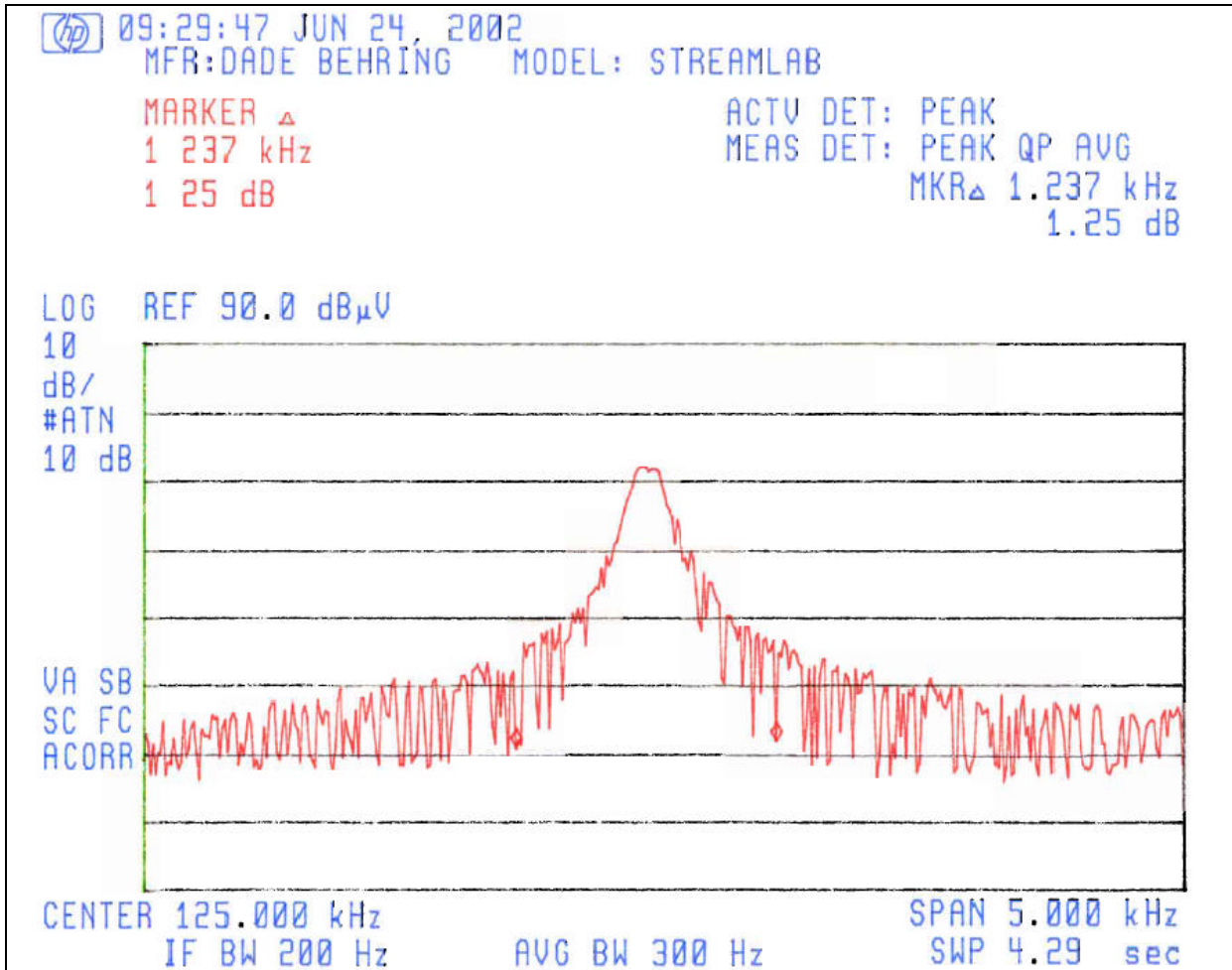
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NOTES: +20 dB

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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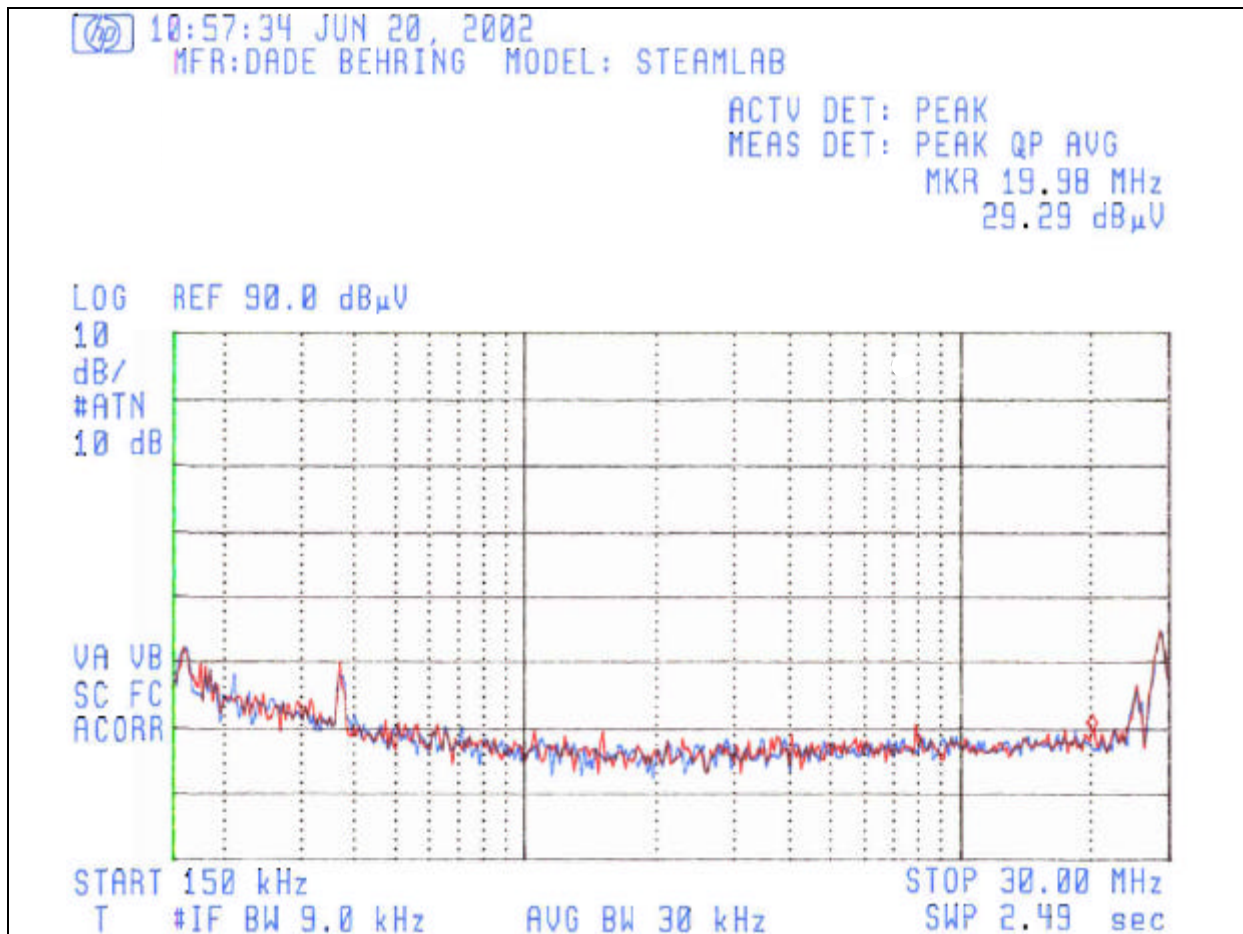
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NOTES: +20 dB

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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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

Power Supply Variation				Date/Time:		20-Jun-02
					File:	02062001.xls
Voltage		Meas No.	Freq kHz	PK Amp	QP Amp	AV Amp
Nominal 24 v	24 Vdc	1	125.009	69.05	68.53	68.18
24v x 85%	20.4 Vdc	2	125.013	67.09	66.51	66.08
24v x 115%	27.6 Vdc	3	124.975	71.24	69.92	69.80
Tested By:	Andrew Gaudette					
TUV Rheinland of North America, Inc.						
12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-0888						

11:38:40 JUN 20, 2002

MFR: DADE BEHRING MODEL: STEAMLAB

ACTV DET: PEAK
 MEAS DET: PEAK QP AVG
 MKR 124.975 kHz
 68.92 dBμV

LOG REF 80.0 dBμV

10
 dB/
 ATN
 10 dB

VA VB
 UC FC
 ACORR

CENTER 125.000 kHz

IF BW 200 Hz

AVG BW 300 Hz

SPAN 5.000 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:

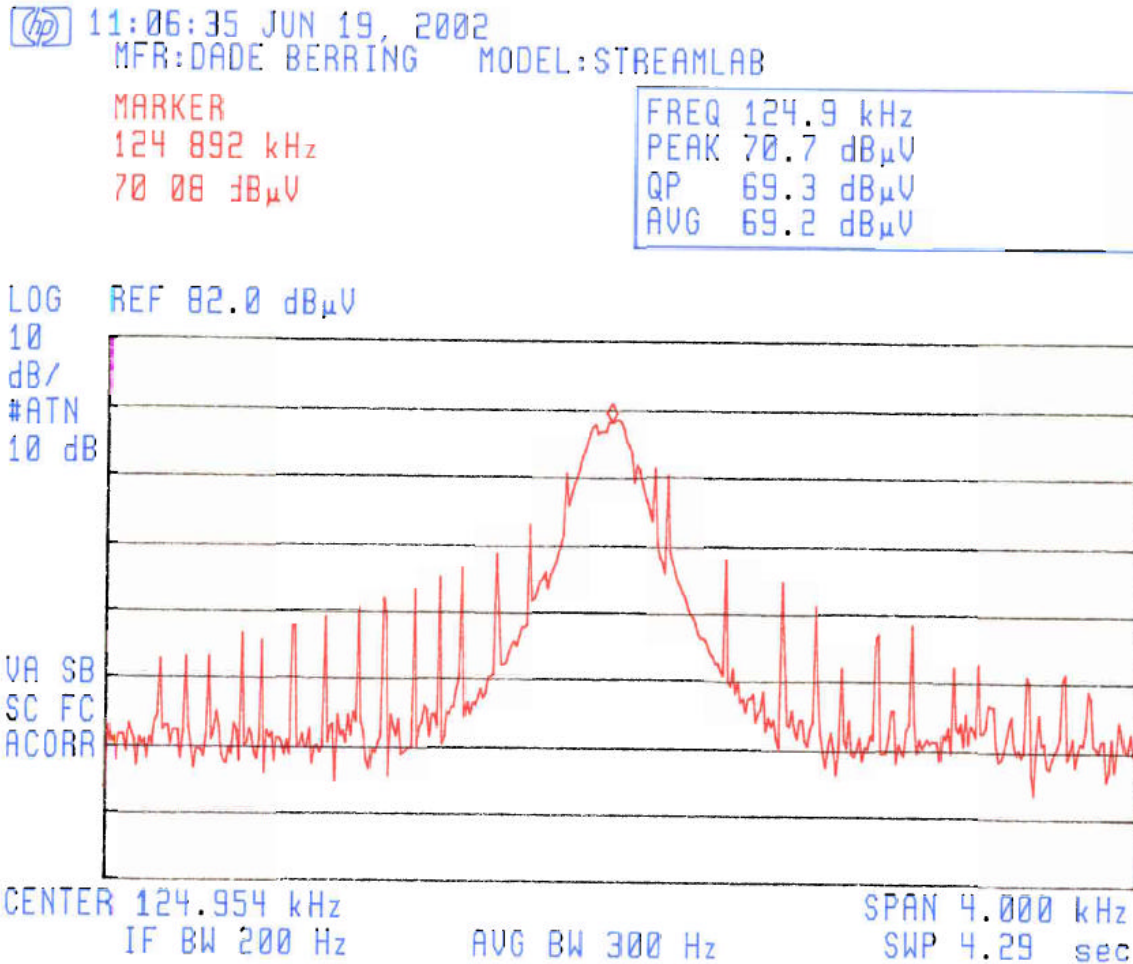
- ☐ OATS
☒ Semi-Anechoic
☐ Shielded Room
☐ Factory Floor
☐ Other _____

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NOTES: +20 dB

**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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Conducted Emissions Measurements									
Standard: 47 CFR 15.207									
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	Date: 17 JUL Y 2002 File: 02071701.xls	
1	0.4717	47.36	47.28	47.24	48.00	Line	-0.72		Complied
2	1.2769	45.12	44.98	44.99	48.00	Line	-3.02		Complied
3	2.8811	44.72	44.01	43.54	48.00	Line	-3.99		Complied
4	6.0944	43.31	42.21	41.17	48.00	Line	-5.79		Complied
5	19.1239	39.72	36.95	30.69	48.00	Line	-11.05		Complied
6	22.7598	43.04	41.35	38.05	48.00	Line	-6.65		Complied
7	0.4857	47.95	47.89	47.87	48.00	Neutral	-0.11		Complied
8	1.2991	45.55	43.22	43.26	48.00	Neutral	-4.78		Complied
9	2.7575	42.64	42.49	42.48	48.00	Neutral	-5.51		Complied
10	5.6793	42.85	42.56	42.46	48.00	Neutral	-5.44		Complied
11	20.9457	46.90	45.32	44.82	48.00	Neutral	-2.68		Complied
12	23.8736	44.87	42.45	38.42	48.00	Neutral	-5.55		Complied
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



11:04:07 JUL 17, 2002

DADE BEHRING MODEL RFID 125kHz TRANSMITTER

ACTV DET: PEAK

MEAS DET: PEAK QP AVG

MKR 400 kHz

47.99 dBμV

LOG REF 70.0 dBμV

10

dB/

#ATN

0 dB

VA VB

SC FC

CORR

START 450 kHz

#IF BW 9.0 kHz

AVG BW 30 kHz

STOP 30.00 MHz

SWP 2.46 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☐ Other _____MEAS TYPE:☐ Radiated Prescan☐ Radiated Final☒ Conducted☐ Disturbance Power☐ Other _____POLARIZATION:☐ Vertical☐ Horizontal☒ Line☒ Neutral☐ NADISTANCE:☒ 3 Meter☐ 10 Meter☐ _____ Meter☐ NALOCATION:☐ OATS☐ Semi-Anechoic☒ Shielded Room☐ Factory Floor☐ Other _____

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APPENDIX C: PHOTOGRAPHS





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:				
			941/MR/cl/P2271229.01				
EMC/EMV Constructional Data Form							
	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):		Rated Voltage, Current, and Frequency:					
N/A		DC 21-26 V					
Protection Class:		Repetition Frequency (<10kHz, >10kHz):					
SLV		N/A					
TUV Rheinland Prüfstelle für Gerätesicherheit		Applicant					
Köln, den		(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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