EXHIBIT A

PRODUCT EVALUATION REPORT

Scope - Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators, and Industrial, Scientific and Medical (ISM) devices for compliance with the technical rules and regulations of the Federal Communications Commission.

Manufacturer:	FUSION LIGHTING, INC.
Address:	7524 Standish Place Rockville, MD 20855
Attention:	Mr. Kent Kipling – V.P. Operations
Telephone No.:	(301) 284-7200

- Trade Name(s): ***SOLAR 1000***

Model(s):	Lamp S/N:	Power Supply S/N:	REFLECTOR	BUILD DATE
#1 SAB	1227	400	16"	10/97
#2 SAB	587	414	10"	9/96
#3 SAB	563	315	10"	12/96
#4 SAB	06	412	10"	10/00
#5 SAB	05	415	10"	10/00
#6 SAB	04	314	10"	10/00

- EUT Type: RF Lighting – Sulphur Lamp System
- Frequency: 2.450 MHz
- Power Supply: ~~Magnatek PS 805PS1~~ PANASONIC S-6A
- Power Cord: Unshielded
- FCC Rule Part(s): FCC Part 18 – ISM Non-Consumer Device
- Test Procedure(s): MP-5
- Dates of Tests: November 3, 2000
- Place of Tests: PCTEST Lab, Columbia, MD U.S.A.
- Test Report S/N: 18A.201102546.FLI

NVLAP Lab Code 100431-0

TEST DATA

RADIATED DATA (in the band from 2320-2345 MHz)

Measurement were made inside and anechoic chamber at 3 meters to determine the emission characteristics of the EUT in the band of interest. Measurement were taken using horn antenna with spectrum analyzer RBW = 1 MHz and with VBW set at 30 Hz, 30 kHz, and 1 MHz respectfully. The worst case reading are in the table below:

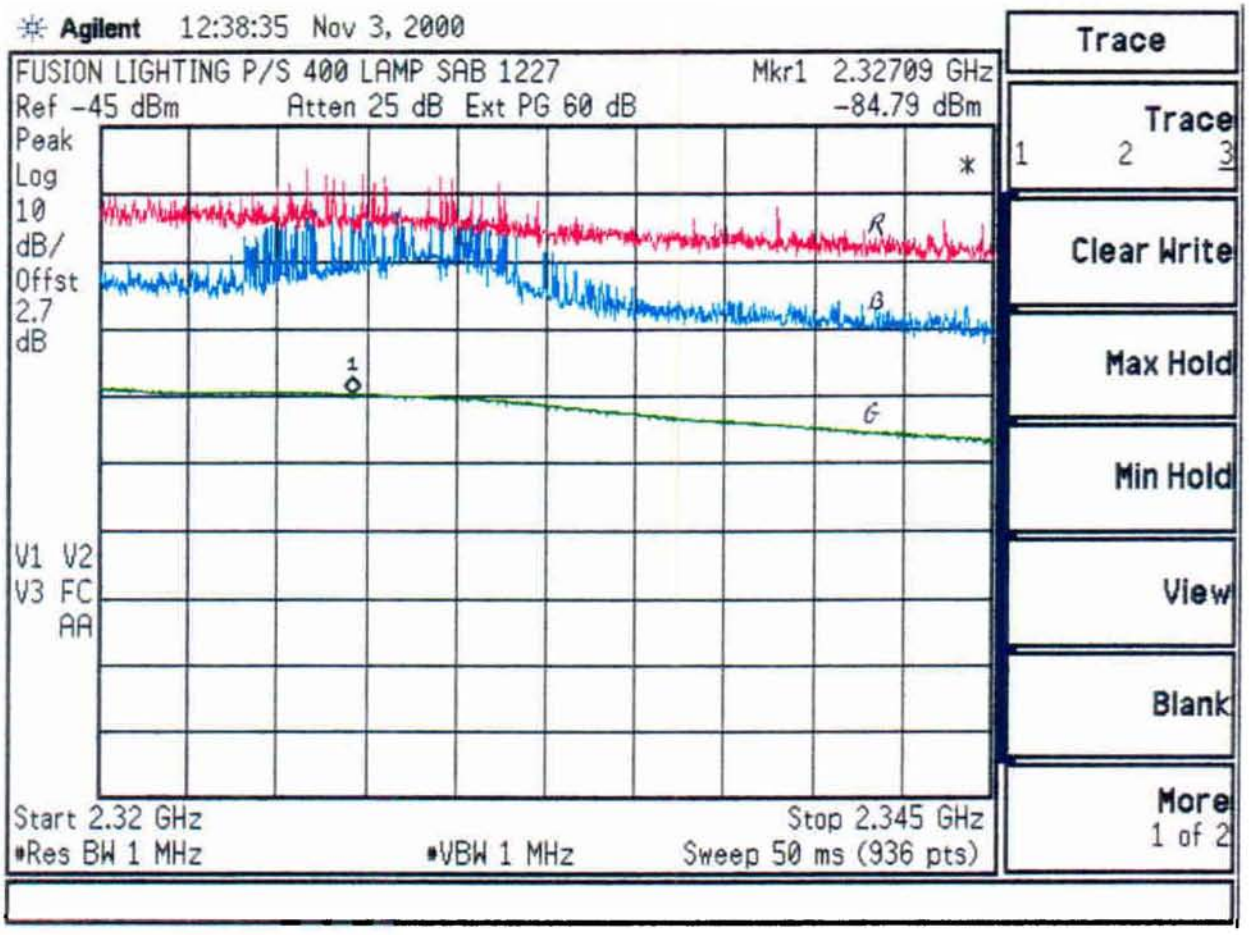
Lamp SN:	Power Supply SN:	Angle degrees	Level VBW= 30 Hz	Level VBW= 30 kHZ	Level VBW= 1 MHz	AF	F/S @ 3M dBuV/M	F/S@ 30M dBuV/M	F/S @ 300M dBuV/M	FCC limit @300M dBuV/M	Margin
SAB1227	400	0	23.0			28	51.0	31.0	11.0	30.98	-20.0
SAB587	414	0	14.3			28	42.3	22.3	2.3	30.98	-28.7
SAB563	315	0	15.9			28	43.9	23.9	3.9	30.98	-27.1
SAB06	412	0	12.0			28	40.0	20.0	0.0	30.98	-31.0
SAB05	415	0	8.4			28	36.4	16.4	- 3.6	30.98	-34.6
SAB04	314	0	14.4			28	42.4	22.4	2.4	30.98	-28.6
SAB1227	400	0		50.0		28	78.0	58.0	38.0		
SAB587	414	0		42.8		28	70.8	50.8	30.8		
SAB563	315	0		20.0		28	48.0	28.0	8.0		
SAB06	412	0		27.0		28	55.0	35.0	15.0		
SAB05	415	0		26.8		28	54.8	34.8	14.8		
SAB04	314	0		40.4		28	68.4	48.4	28.4		
SAB1227	400	0			56.0	28	84.0	64.0	44.0	50.98	-7.0
SAB587	414	0			49.0	28	77.0	57.0	37.0	50.98	-14.0
SAB563	315	0			40.0	28	68.0	48.0	28.0	50.98	-23.0
SAB06	412	0			38.0	28	66.0	46.0	26.0	50.98	-25.0
SAB05	412	0			30.2	28	58.2	38.2	18.2	50.98	-32.8
SAB04	314	0			49.0	28	77.0	57.0	37.0	50.98	-14.0

TEST EQUIPMENT

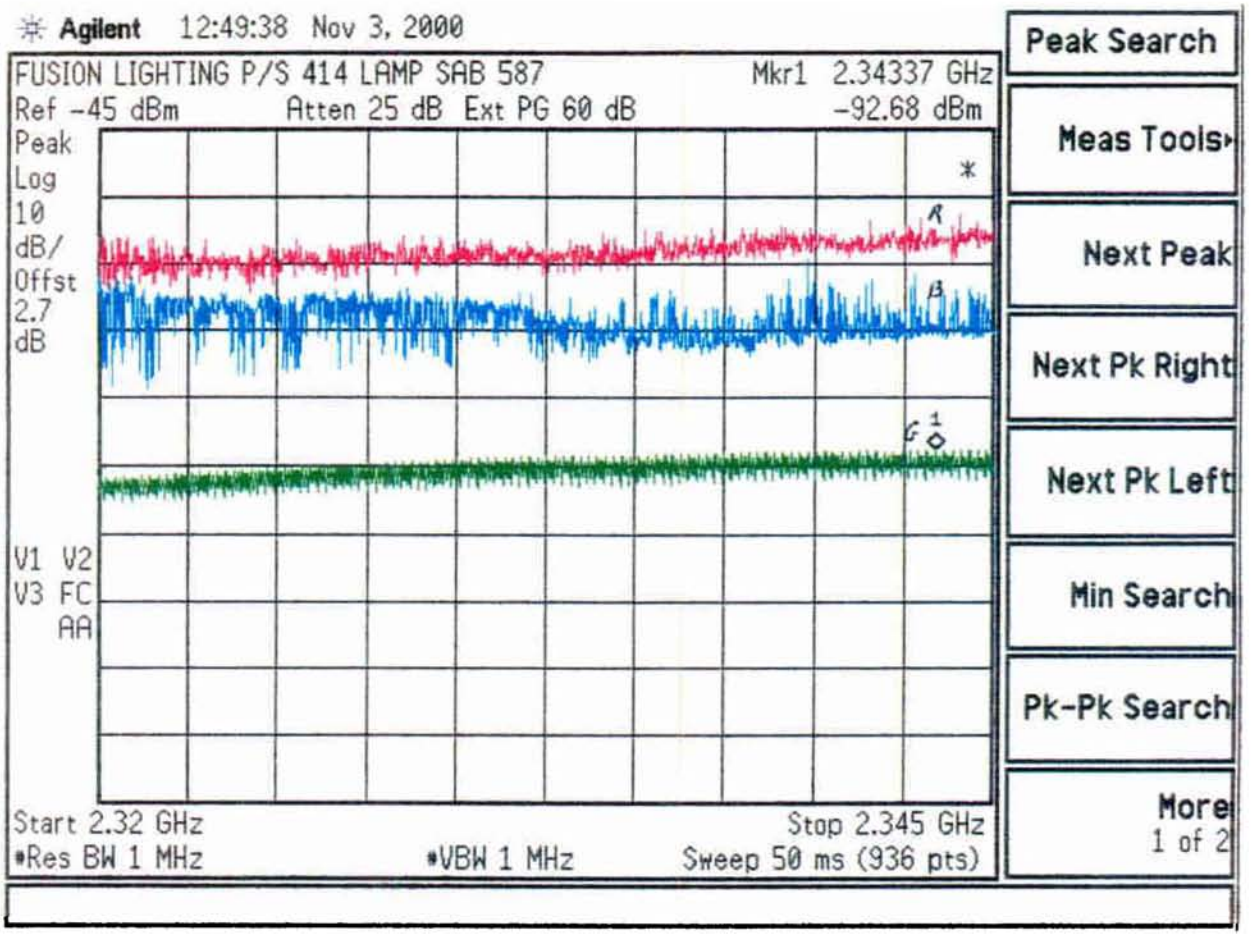
Type	Model	Cal. Due Date	S/N
Spectrum Analyzer	HP E4407B	02/14/01	US39210313
Signal Generator	HP 8648D	11/28/01	3613A 00315
Band Pass Filter	K & L 5BT-1500/3000-5-N/N	11/03/01	351
Horn Antenna	EMCO Model 3115 (1-18GHz)	07/04/01	9205-3874
Microwave Preamplifier 40dB Gain	MITEQ JS22-01800220-08-8P	11/03/01	423014
Microwave Cables	MicroCoax	01/12/01	n/a
Shielded Semi-Anechoic Chamber	Ray Proof Model S81		R2437 (PCT278)

PLOTS OF EMISSION

(See Attached Plots - Next Pages)



	VBW	RBW
Red	1MHz	1MHz
Blue	30kHz	1MHz
Green	30Hz	1MHz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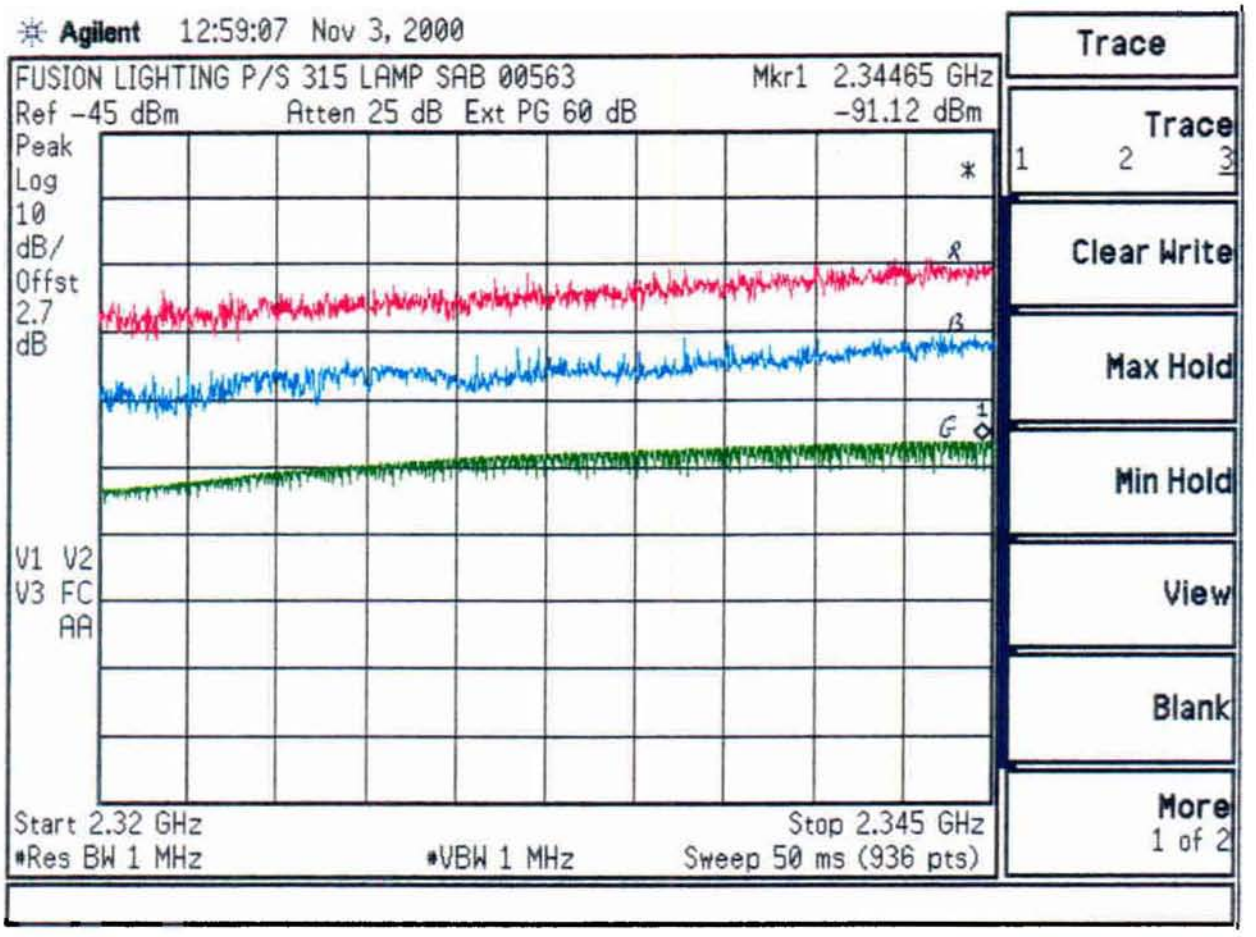
FUSION LIGHTING P/S 414 LAMP SAB 587
Mkr1 2.34337 GHz
Ref -45 dBm
Atten 25 dB Ext PG 60 dB
-92.68 dBm
Peak
Log
10
dB/
Offst
2.7
dB
V1 V2
V3 FC
AA
Start 2.32 GHz
Stop 2.345 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 50 ms (936 pts)
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2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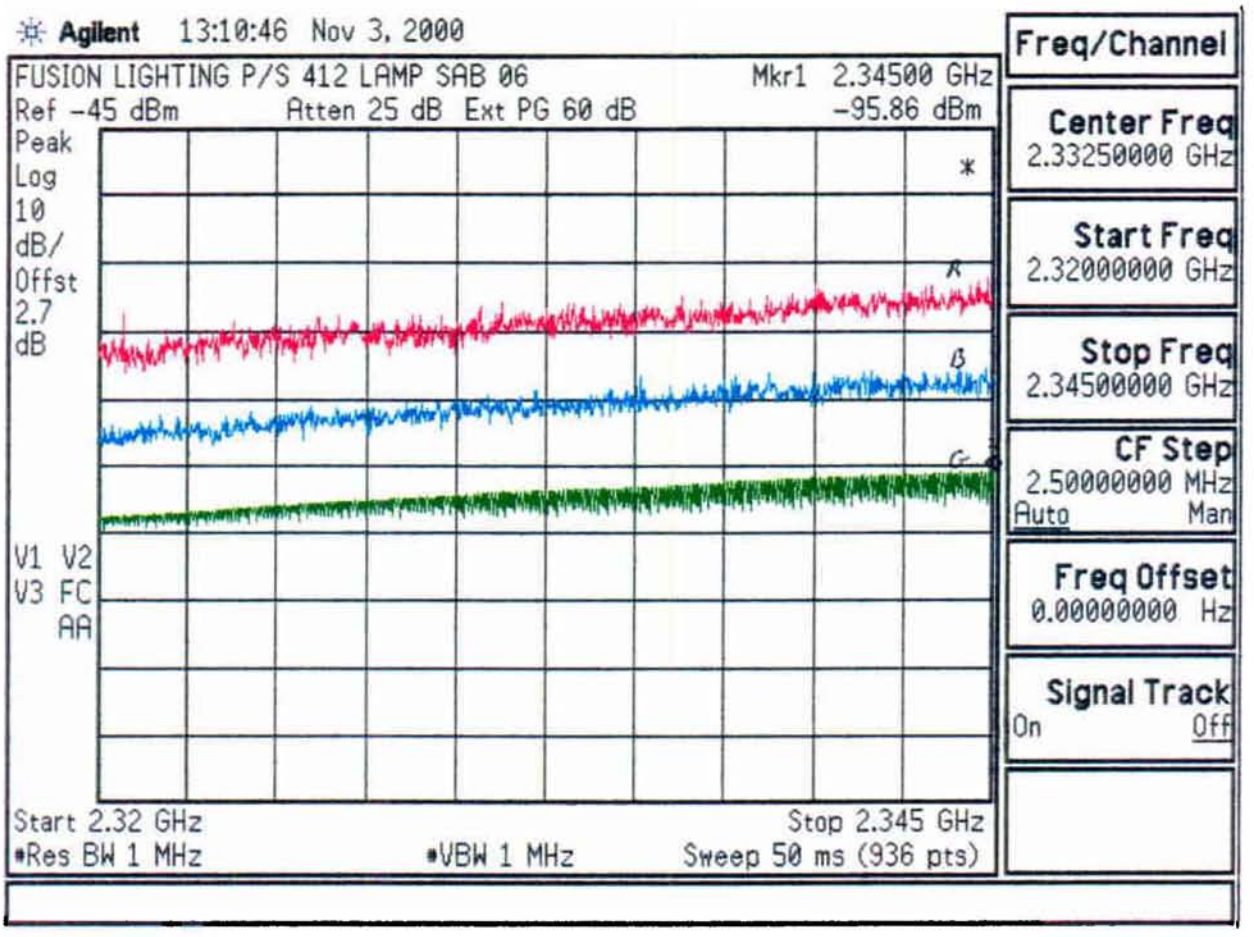
Mkr1 2.34465 GHz
Ref -45 dBm
Atten 25 dB Ext PG 60 dB
-91.12 dBm
Peak
Log
10
dB/
Offst
2.7
dB
V1 V2
V3 FC
AA
Start 2.32 GHz
Stop 2.345 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 50 ms (936 pts)
Trace
Trace
1 2 3
Clear Write
Max Hold
Min Hold
View
Blank
More
1 of 2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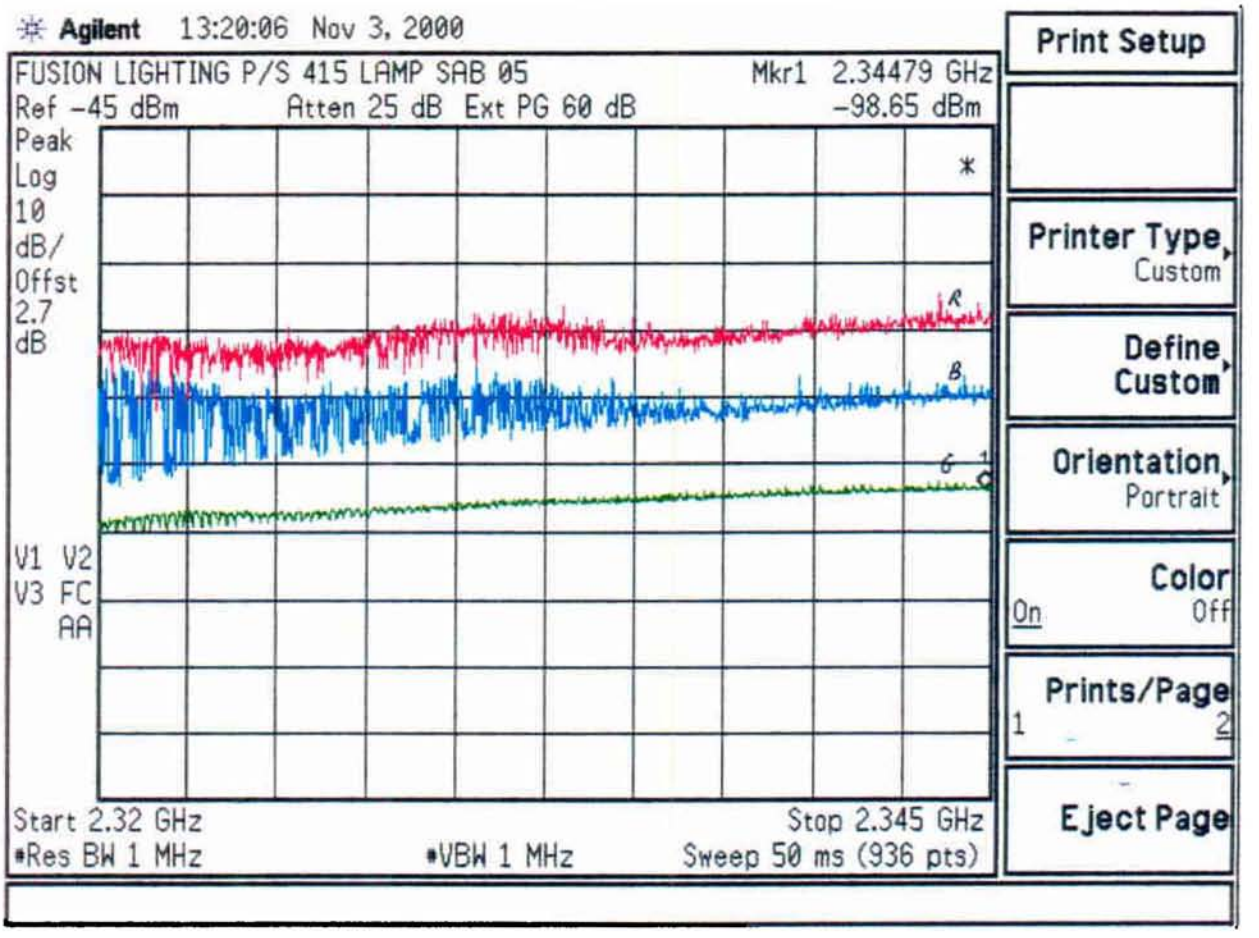
Mkr1 2.34500 GHz
Ref -45 dBm
Atten 25 dB Ext PG 60 dB
-95.86 dBm
Peak
Log
10
dB/
Offst
2.7
dB
A
B
C
V1 V2
V3 FC
AA
Start 2.32 GHz
Stop 2.345 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 50 ms (936 pts)
Freq/Channel
Center Freq
2.33250000 GHz
Start Freq
2.32000000 GHz
Stop Freq
2.34500000 GHz
CF Step
2.50000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off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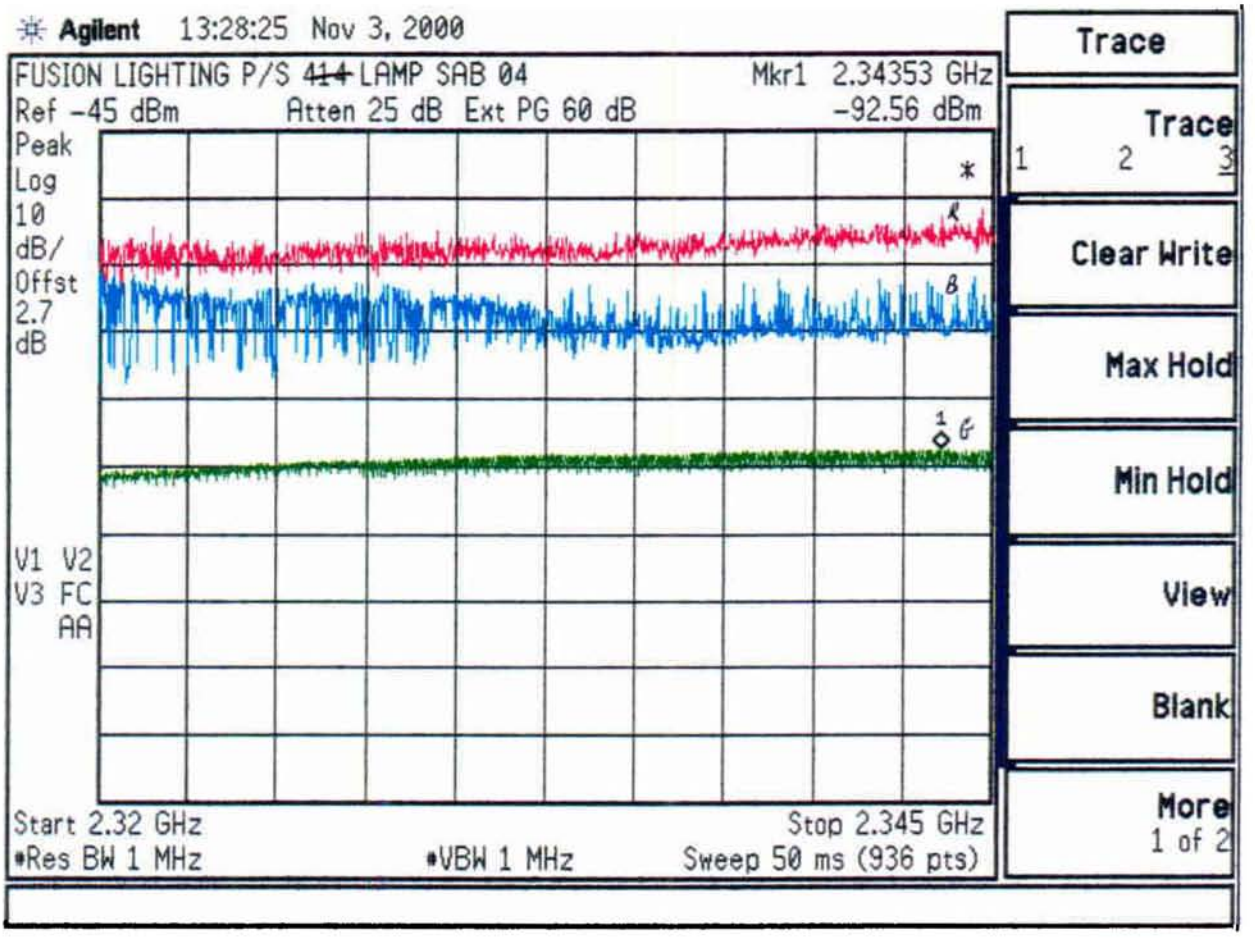
Mkr1 2.34479 GHz
Ref -45 dBm
Atten 25 dB Ext PG 60 dB
-98.65 dBm
Peak
Log
10
dB/
Offst
2.7
dB
V1 V2
V3 FC
AA
Start 2.32 GHz
Stop 2.345 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 50 ms (936 pts)
Print Setup
Printer Type
Custom
Define
Custom
Orientation
Portrait
Color
On
Off
Prints/Page
1
2
Eject Page

ase

3/4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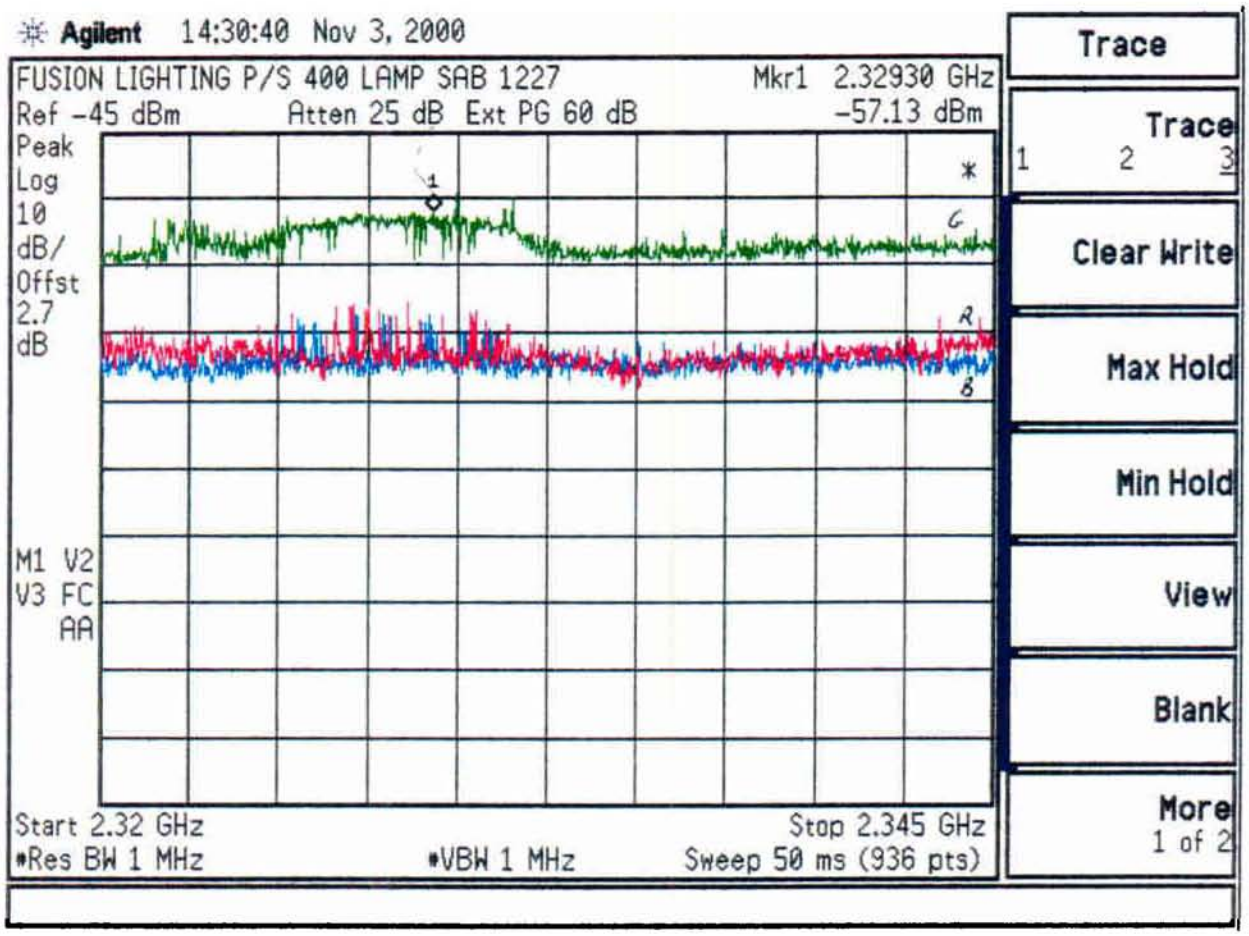
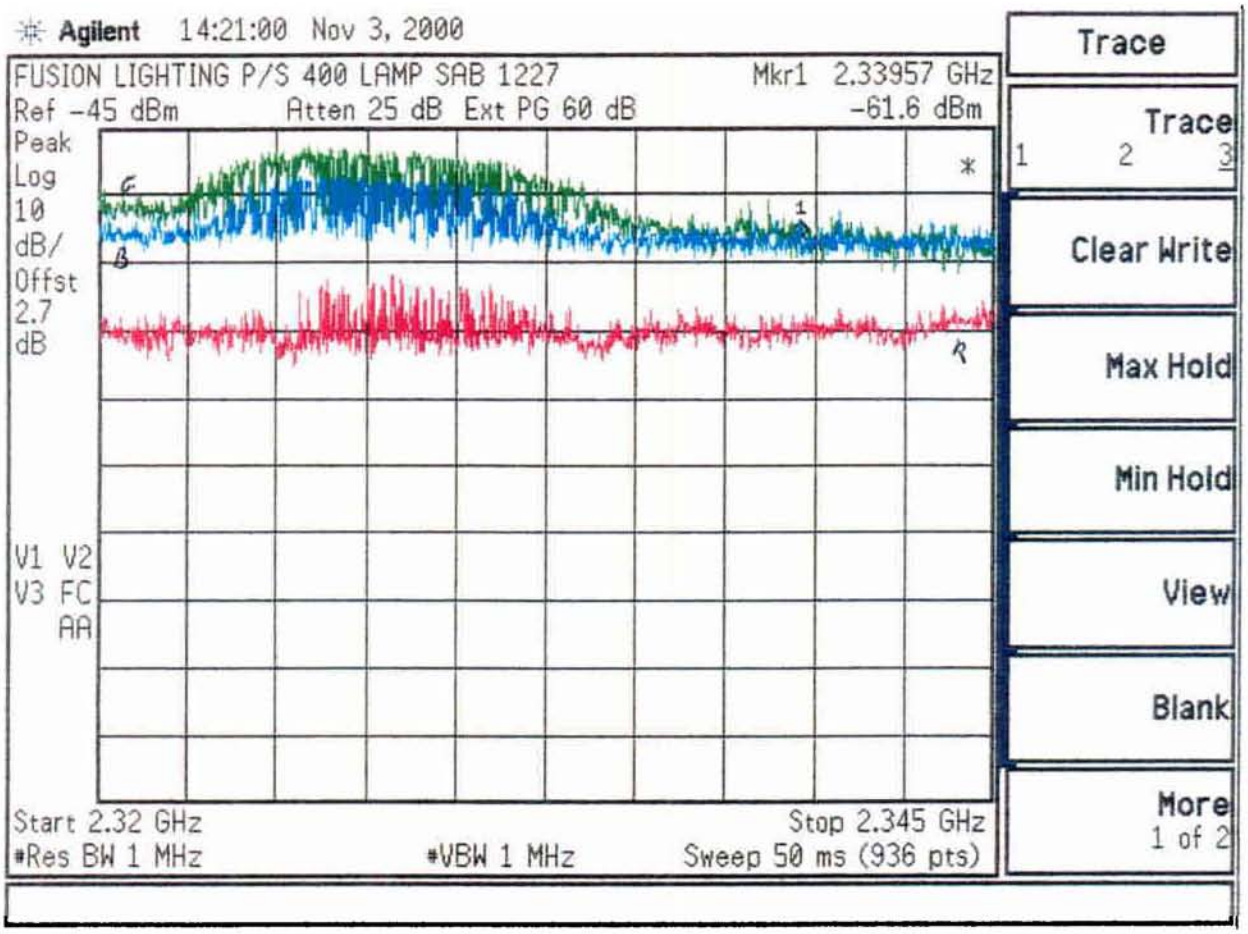
Mkr1 2.34353 GHz
Ref -45 dBm
Atten 25 dB Ext PG 60 dB
-92.56 dBm
Peak
Log
10
dB/
Offst
2.7
dB
V1 V2
V3 FC
AA
Start 2.32 GHz
Stop 2.345 GHz
•Res BW 1 MHz
•VBW 1 MHz
Sweep 50 ms (936 pts)
Trace
Trace
1 2 3
Clear Write
Max Hold
Min Hold
View
Blank
More
1 of 2



240° G

90° V

270° B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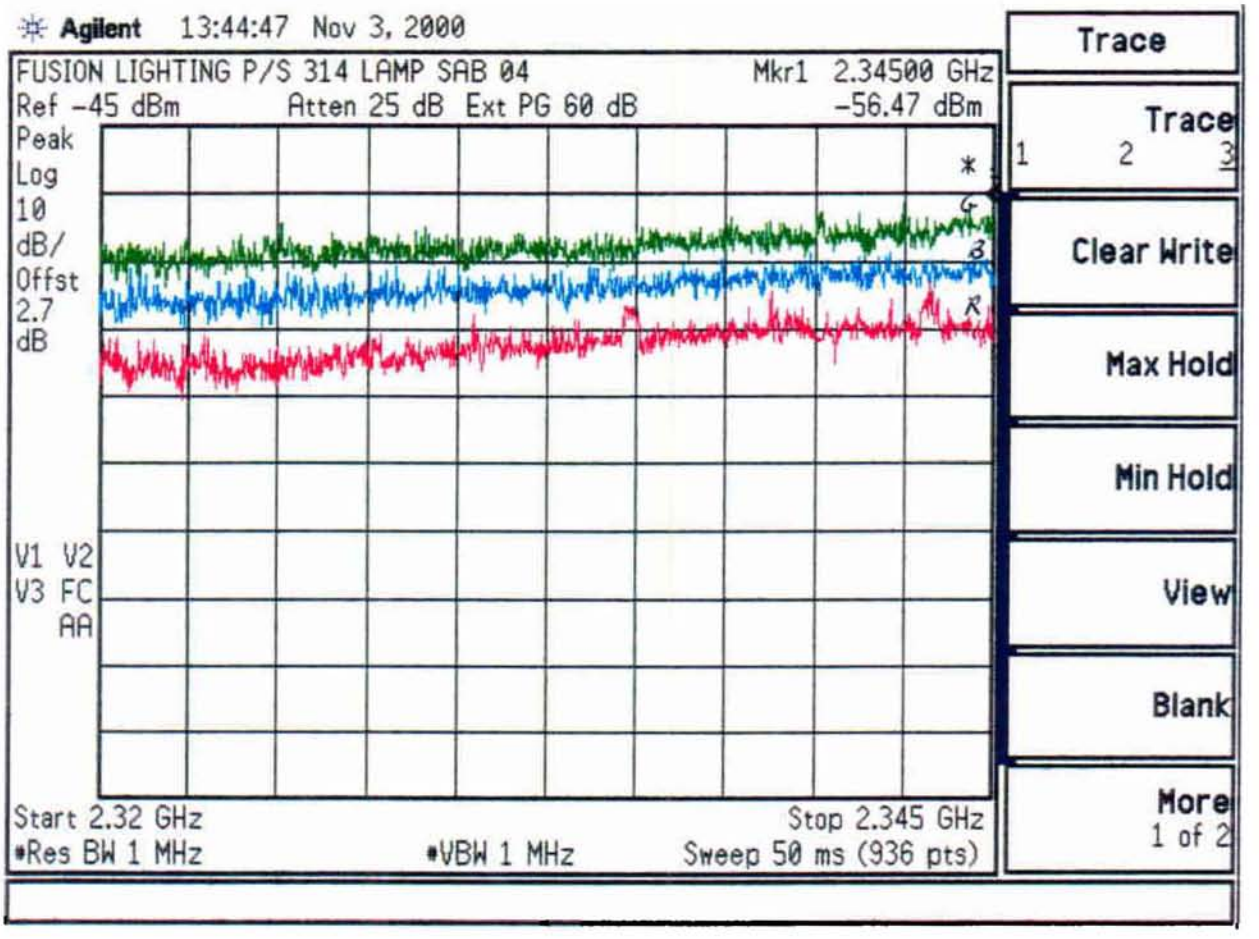
Mkr1 2.33957 GHz
Ref -45 dBm
Atten 25 dB Ext PG 60 dB
-61.6 dBm
Peak
Log
10
dB/
Offst
2.7
dB
G
B
R
1
V1 V2
V3 FC
AA
Start 2.32 GHz
Stop 2.345 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 50 ms (936 pts)
Trace
Trace
1 2 3
Clear Write
Max Hold
Min Hold
View
Blank
More
1 of 2

G 0°

B 20°

V 45°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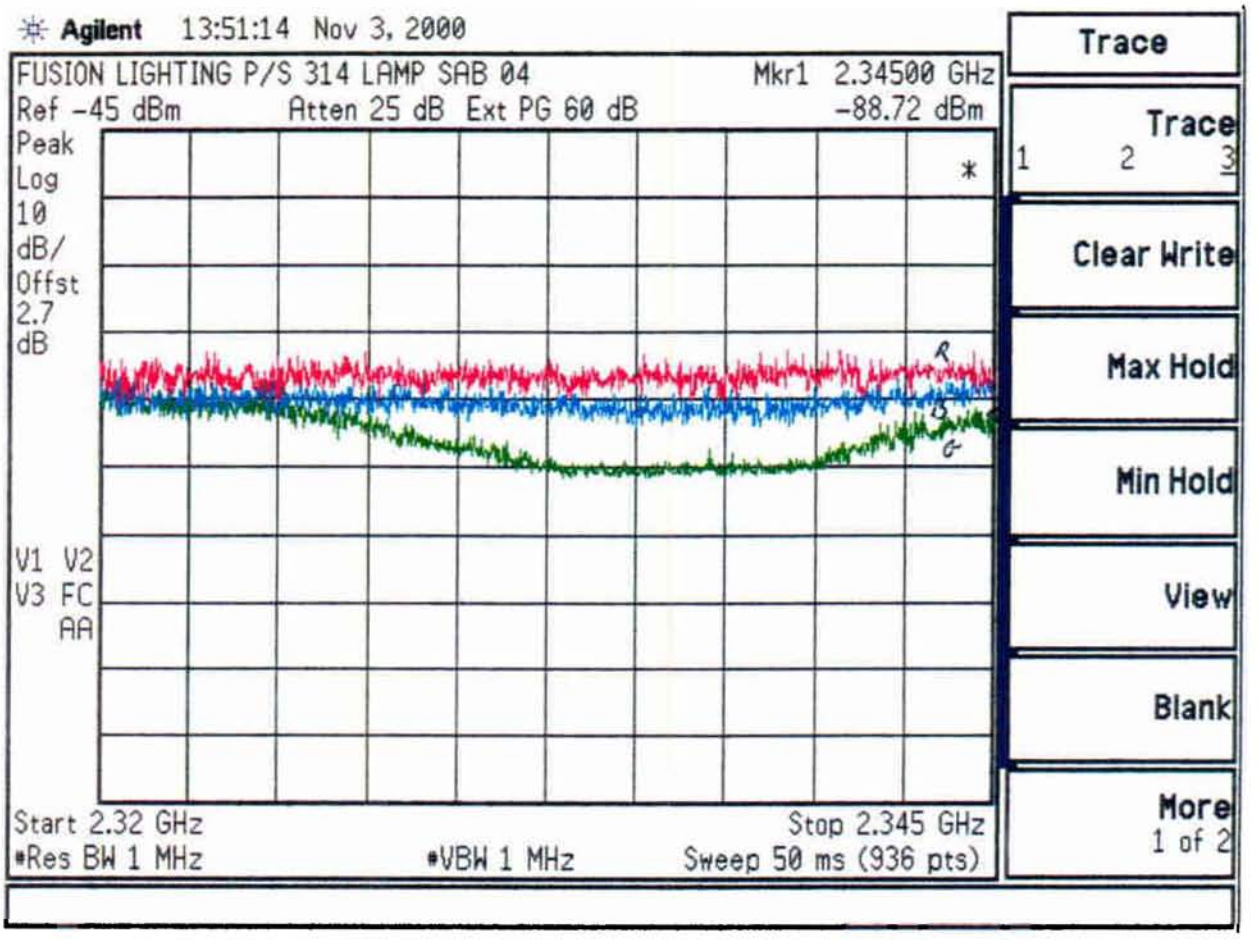
FUSION LIGHTING P/S 314 LAMP SAB 04
Mkr1 2.34500 GHz
Ref -45 dBm
Atten 25 dB Ext PG 60 dB
-56.47 dBm
Peak
Log
10
dB/
Offst
2.7
dB
V1 V2
V3 FC
AA
Start 2.32 GHz
Stop 2.345 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 50 ms (936 pts)
Trace
Trace
1 2 3
Clear Write
Max Hold
Min Hold
View
Blank
More
1 of 2

0° G

45° B

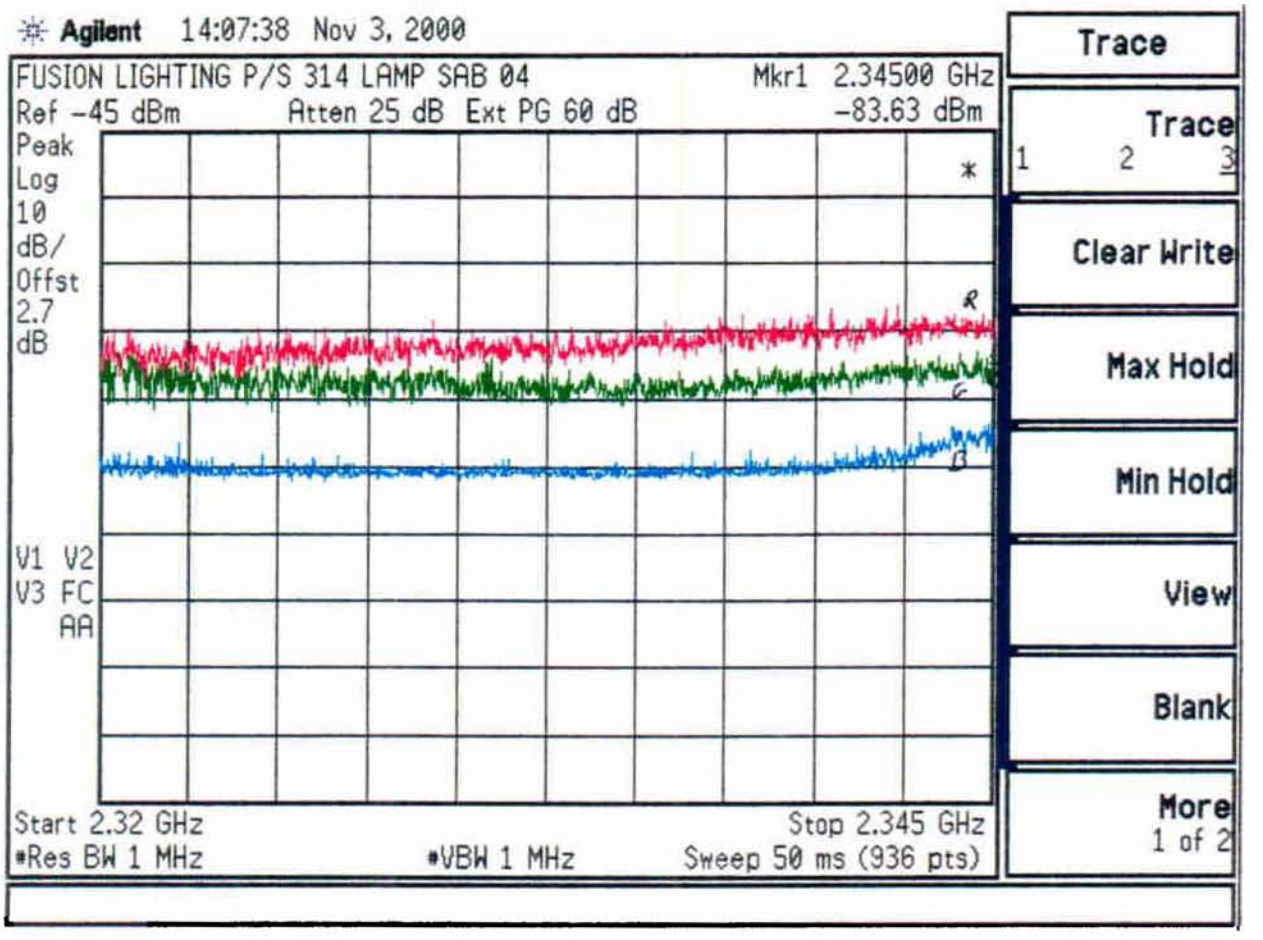
60° V



90° G

135° B

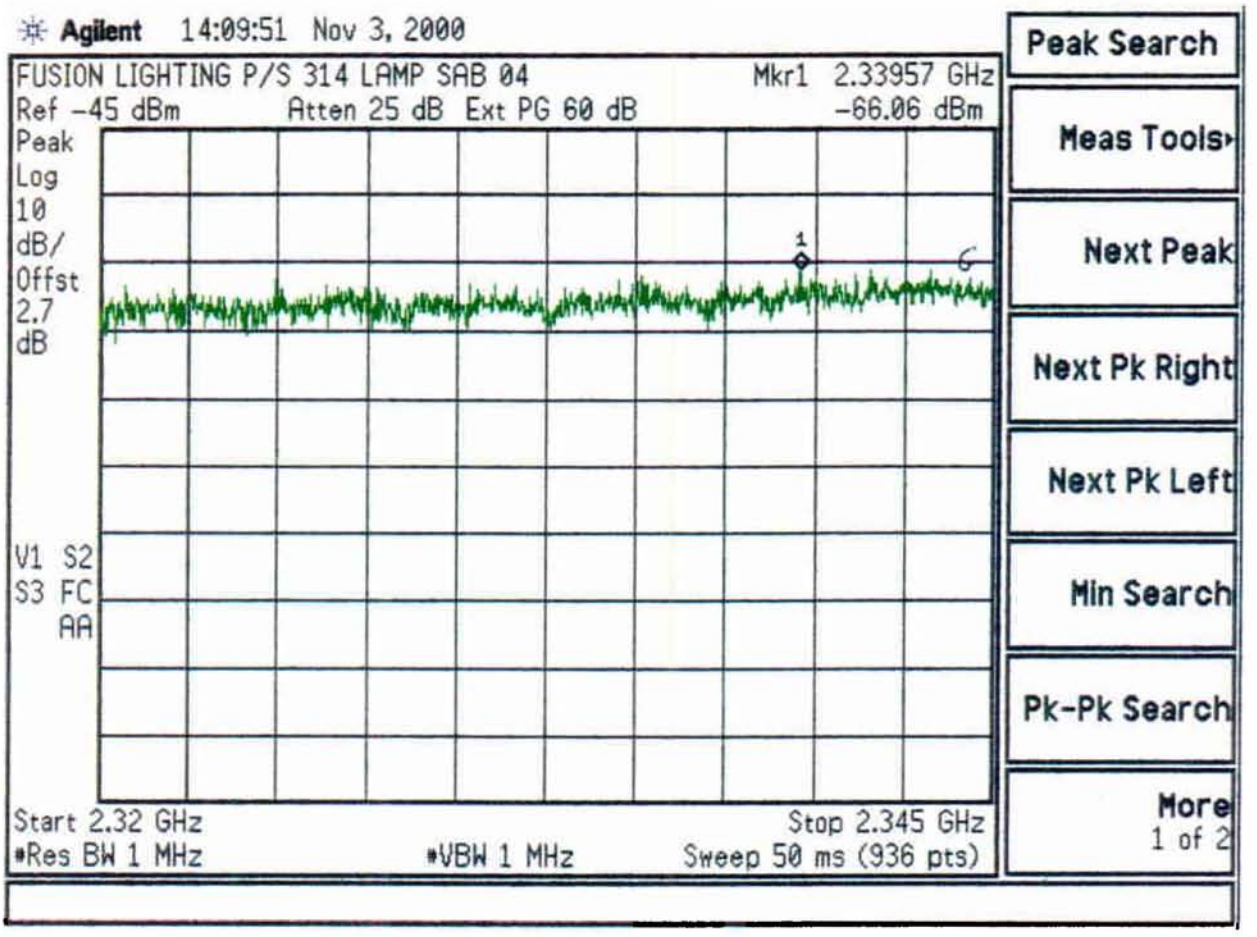
180° V



225° G

270° B

360° V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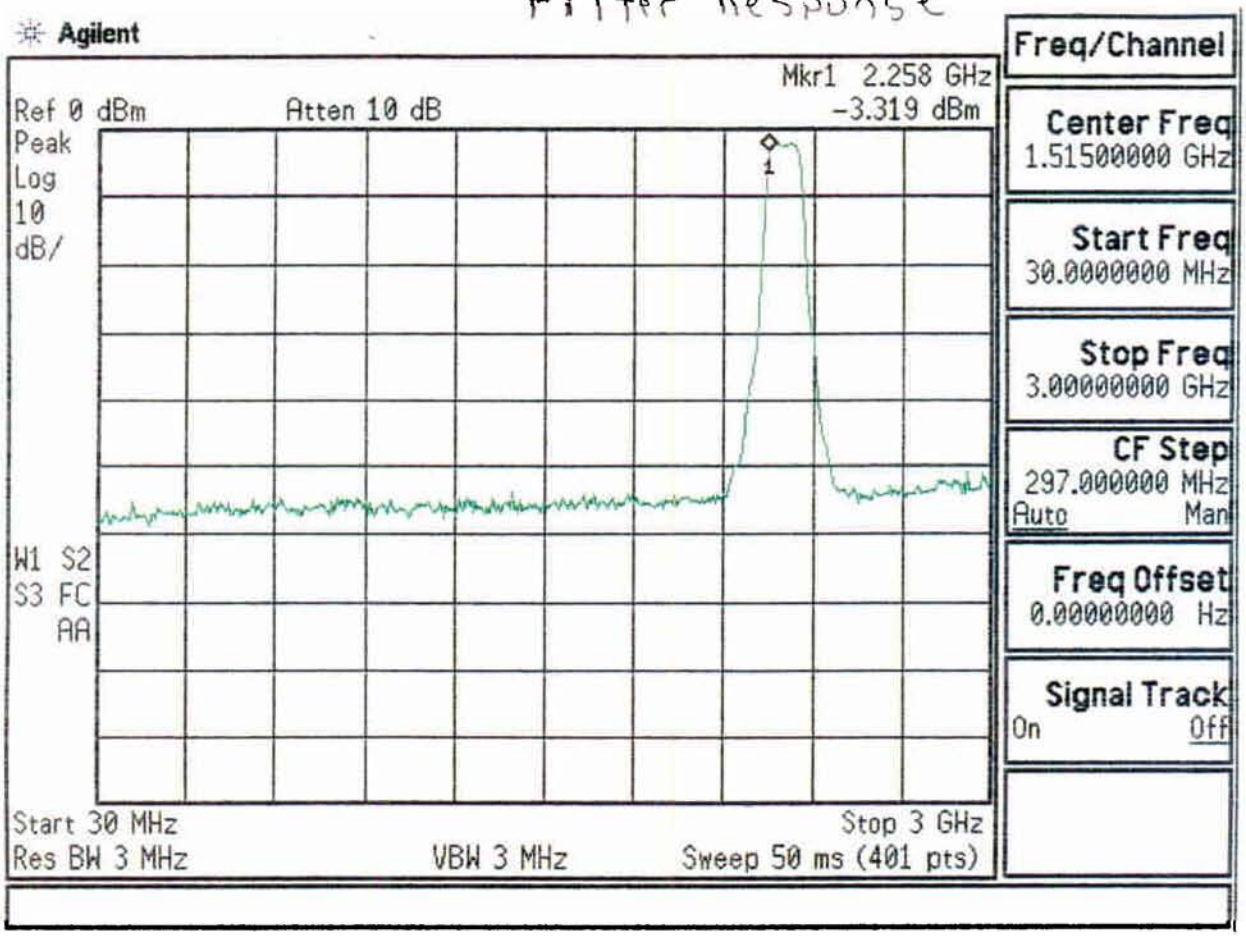
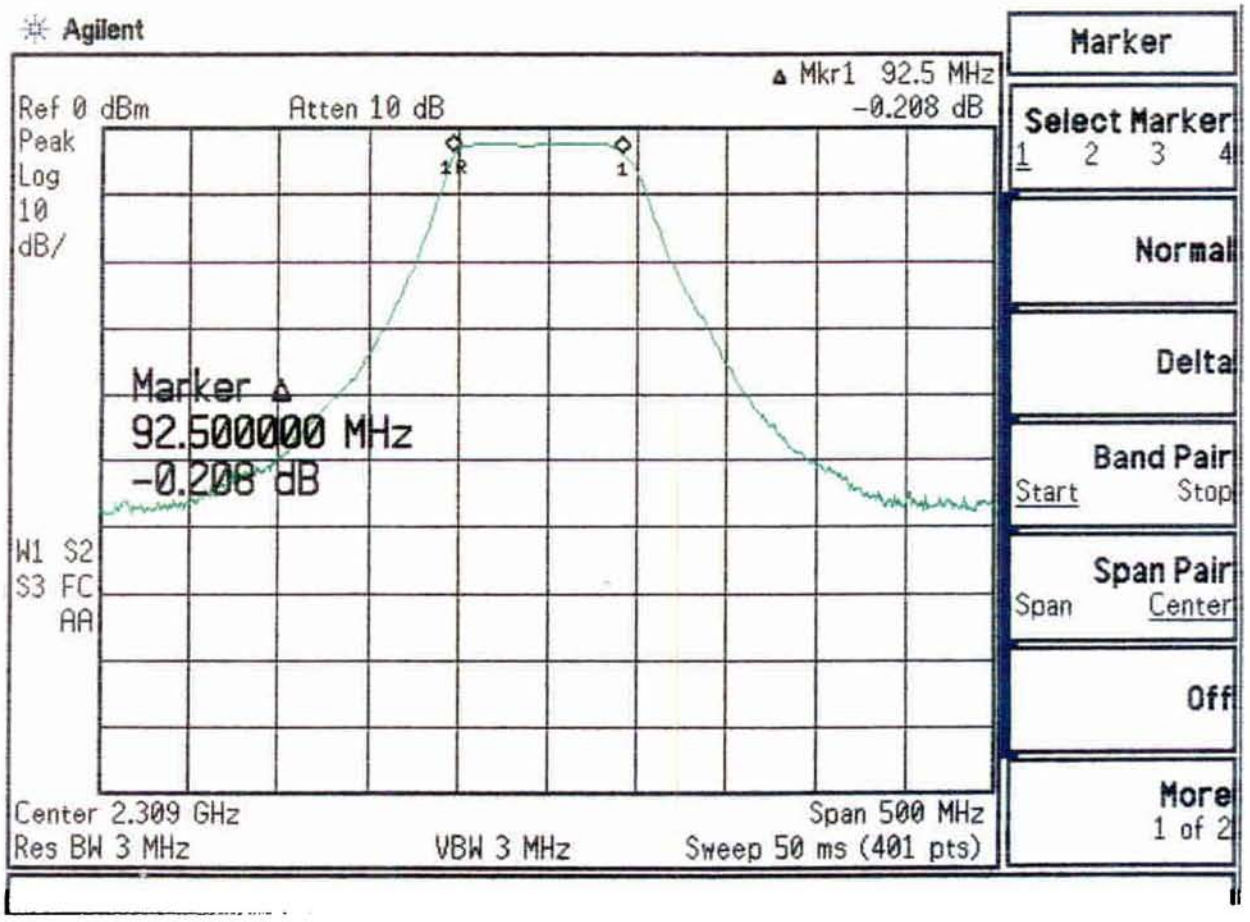
Mkr1 2.33957 GHz
Ref -45 dBm
Atten 25 dB Ext PG 60 dB
-66.06 dBm
Peak
Log
10
dB/
Offst
2.7
dB
1
6
V1 S2
S3 FC
AA
Start 2.32 GHz
Stop 2.345 GHz
#Res BW 1 MHz
#VBW 1 MHz
Sweep 50 ms (936 pts)
Peak Search
Meas Tools
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
More
1 of 2

C 315°

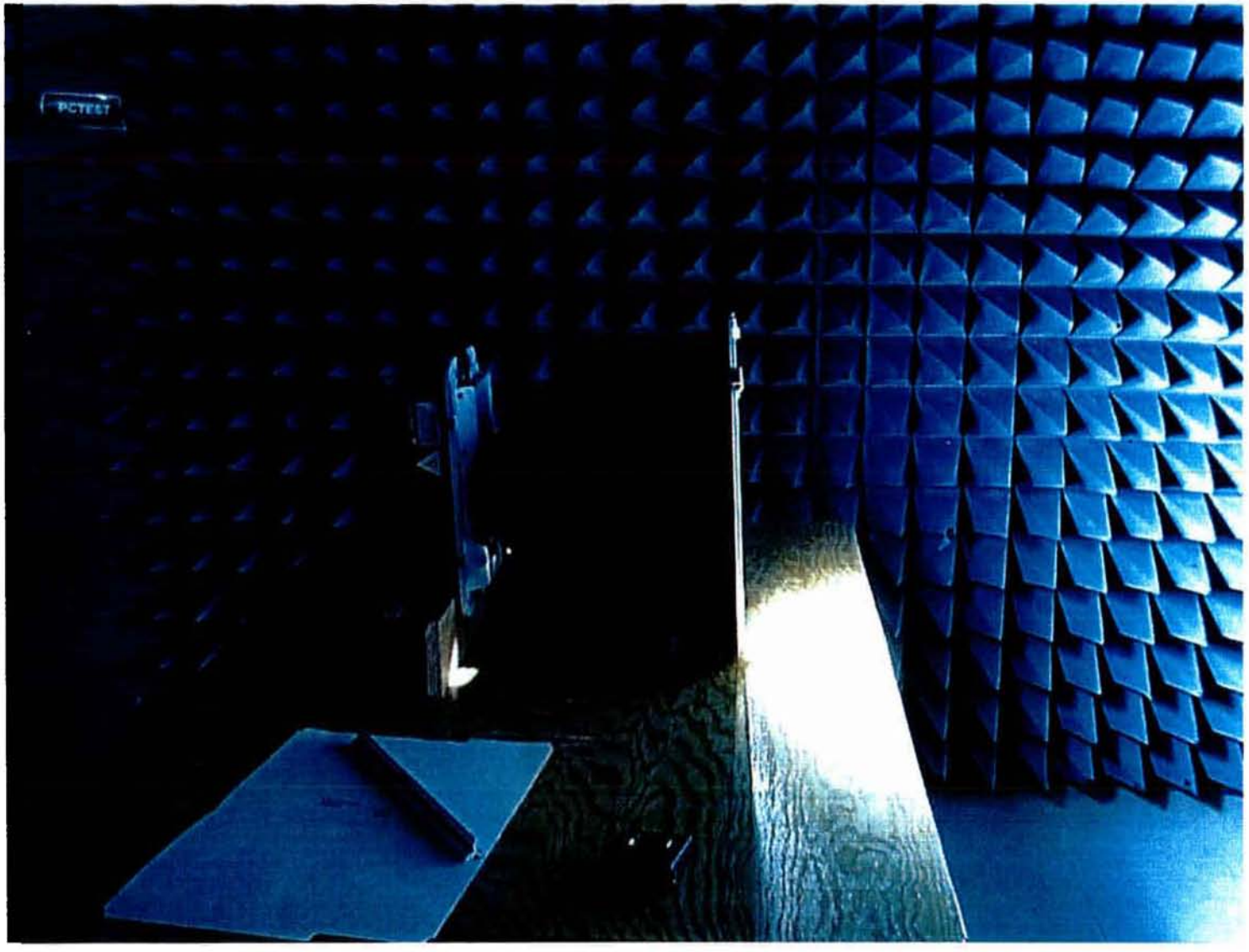
K+L 11/3-00

Filter Response





PC Test Lamp S/N 1227 P/S S/N 400 11/03/2000



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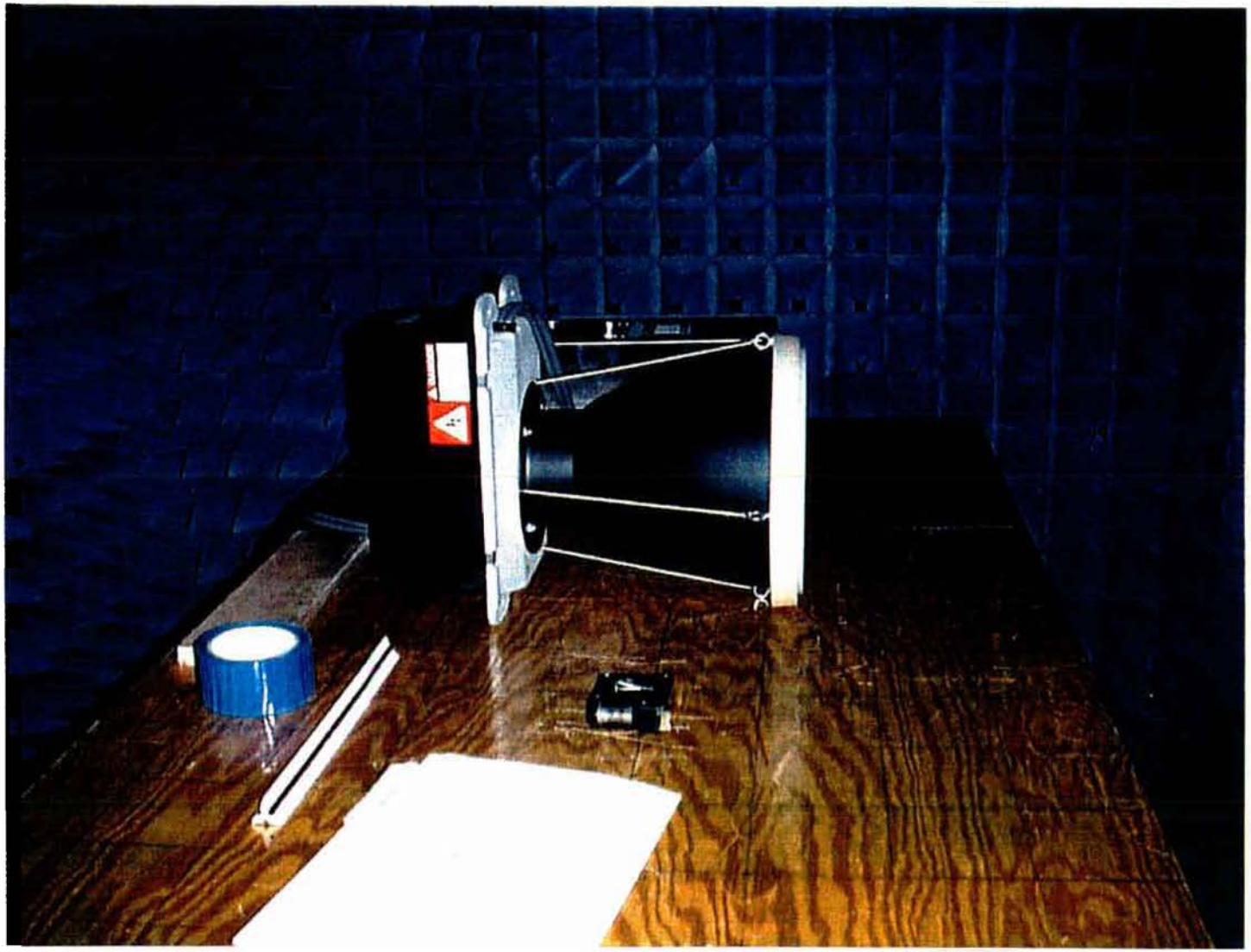

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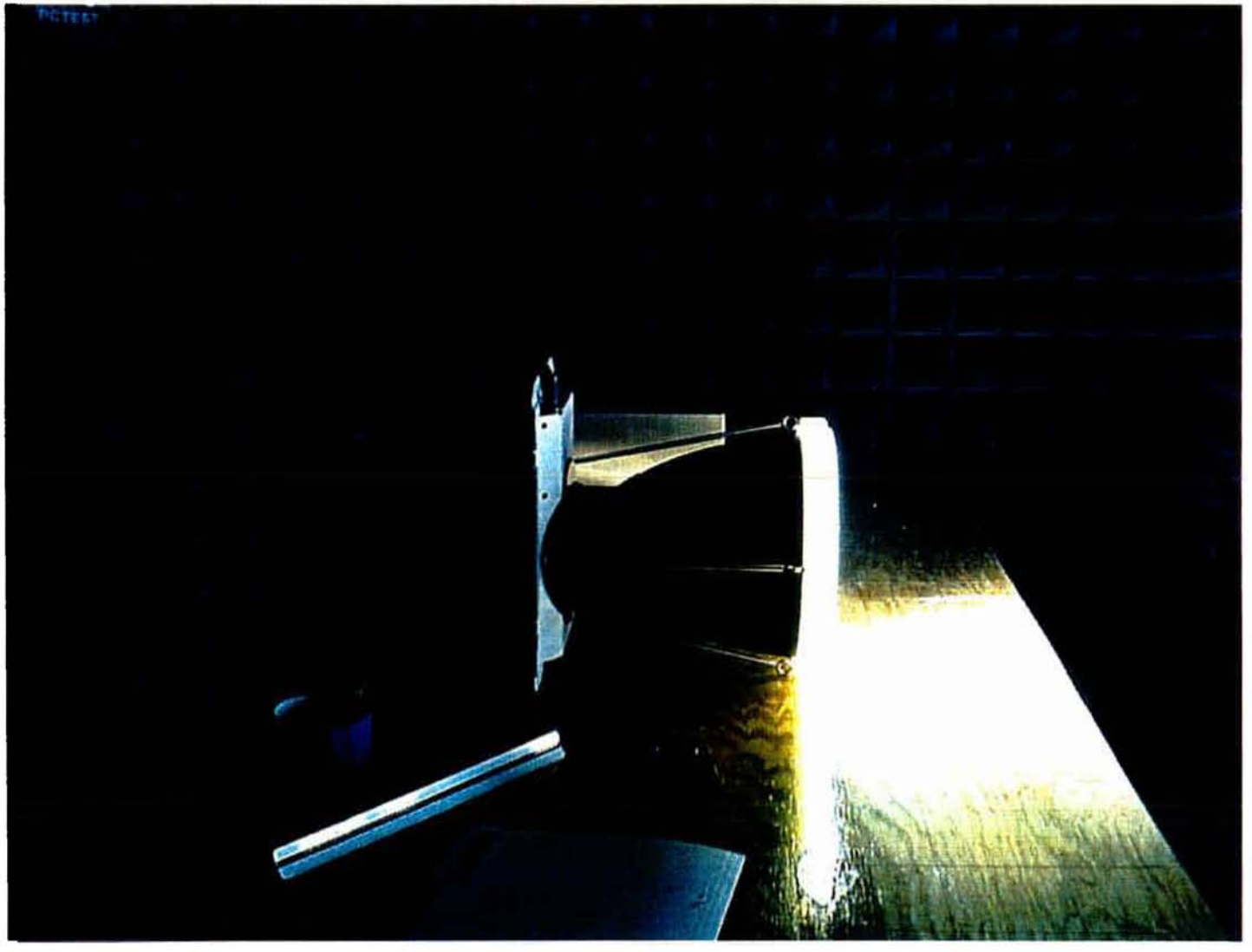

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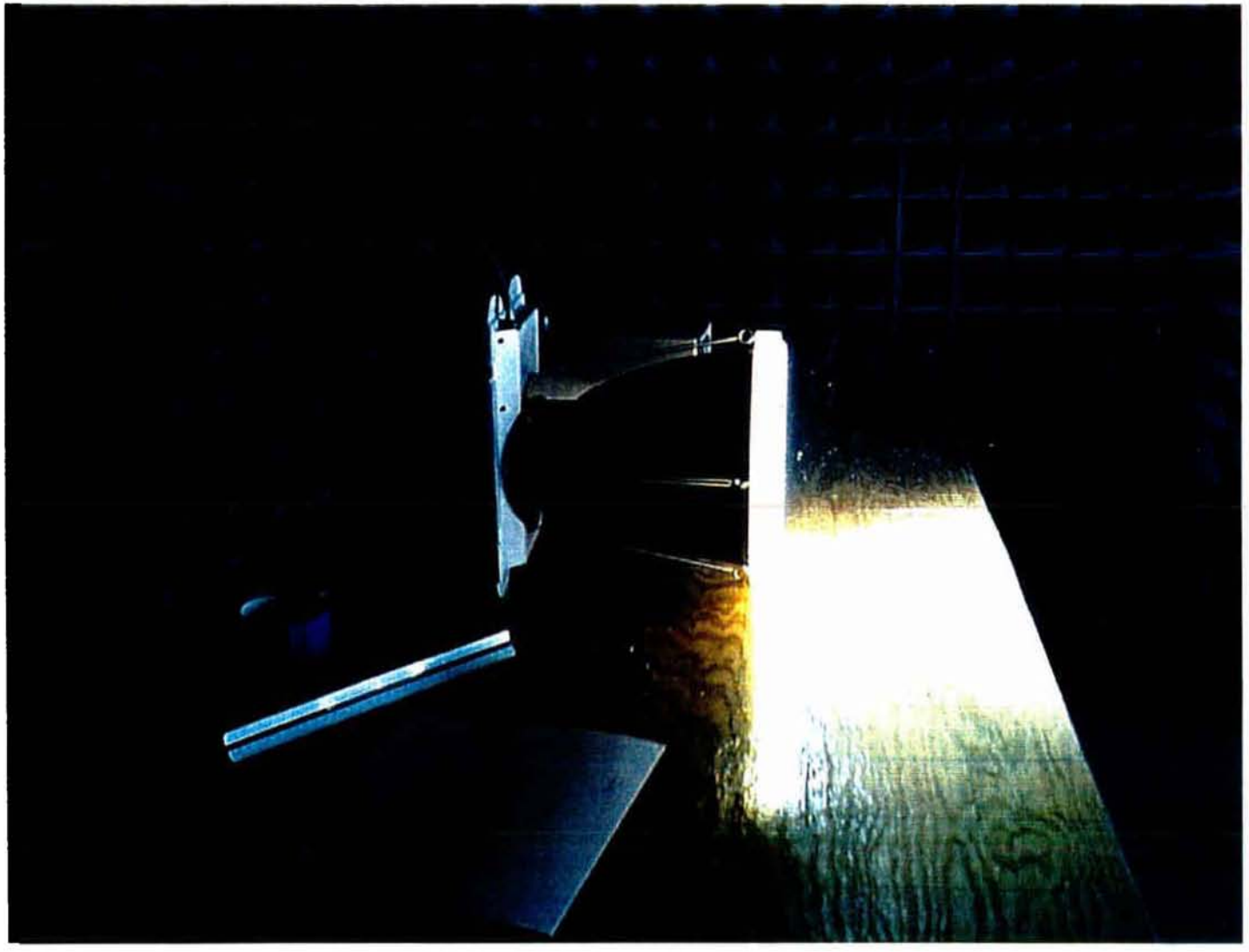
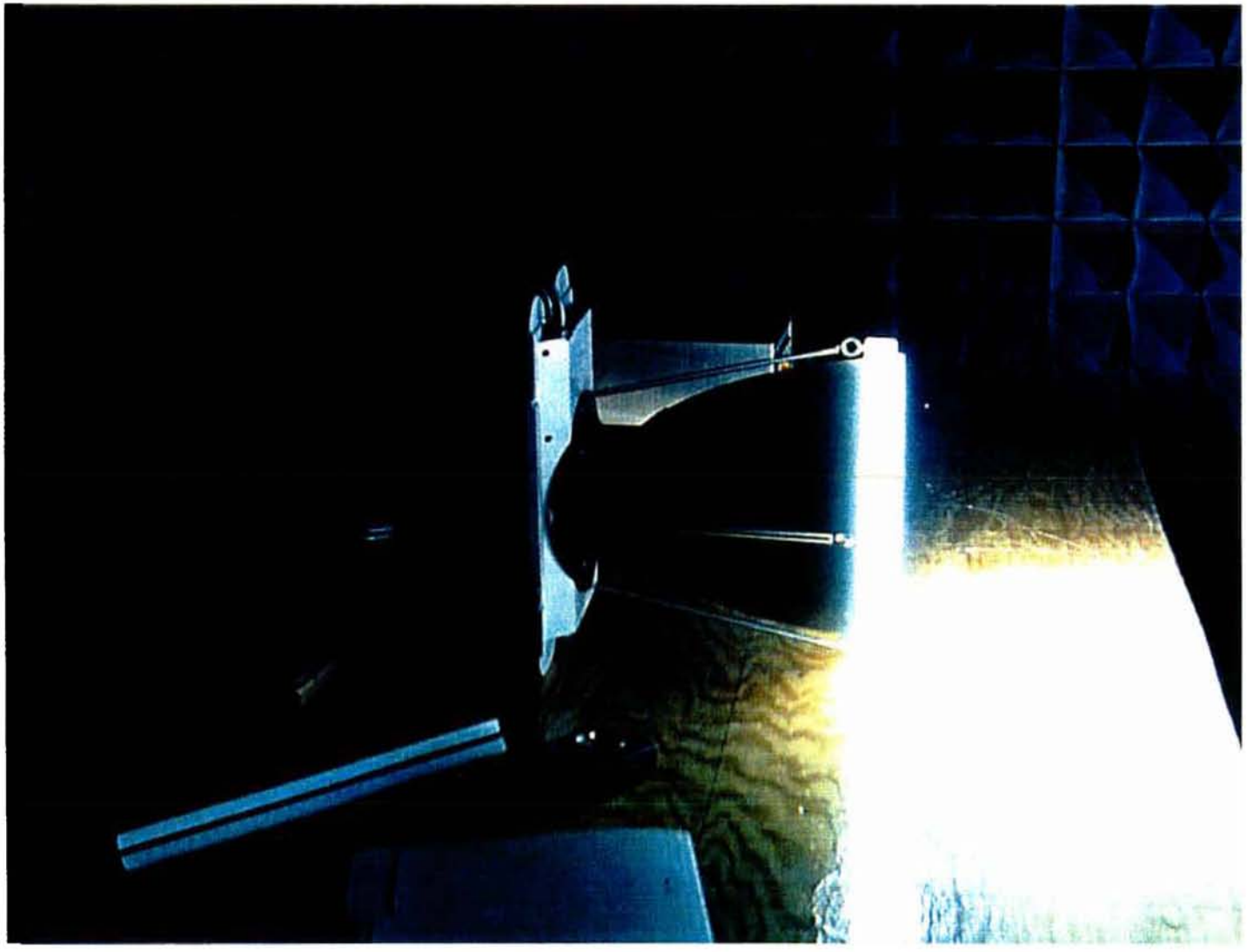
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