RUBICOM SYSTEMS, INC.

FCC TEST REPORT

(INTENTIONAL RADIATOR)

FOR THE

GE HARRIS AVIATION INFORMATION SOLUTIONS, LLC

AIRCRAFT AND GROUND SEGMENTS

JUNE 1999

Rubicom Systems, Inc.
284 West Drive, Suite B
Melbourne, FL 32904

JA-1655

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(INTENTIONAL RADIATOR)

FOR THE

GE HARRIS AVIATION INFORMATION SOLUTIONS, LLC

AIRCRAFT AND GROUND SEGMENTS

Prepared by: Joseph G. Barbee 6/15/99
Joseph G. Barbee

Tested by: Joseph G. Barbee 6/15/99
Joseph G. Barbee

Performed by:

RUBICOM SYSTEMS INC.
284 West Drive, Suite B
Melbourne, Florida 32904

Performed for:

HARRIS CORPORATION, ASD
1000 Perimeter Road
Bldg. 21A
Palm Bay, Florida 32905

Completed: June 10, 1999

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CERTIFICATION

Rubicom Systems, Inc. certifies the information obtained in this report was performed consistent with the requirements of ANSI C63.4-1992. The GE Harris Aviation Aircraft and Ground Segments comply with the requirements of CFR 47 Part 15 for Intentional radiators as required in Paragraph 15.247(a)(2), (b), (c) and (d).

This data was obtained while testing the GE Harris Aviation aircraft and Ground Segments, serial number 30, furnished by GE Harris. Any modifications to the unit as tested may invalidate the data and void this certification

Joseph G. Barbee 6/15/99

Joseph G. Barbee
President

ABSTRACT

This report presents test results found while testing the GE Harris, Aircraft and Ground Data Link (GDL) Segments and the comparison of these test results to the requirements of FCC, Title 47, Paragraph 15.247(a)(2), (b), (c) and (d) for Intentional Radiators as required for direct sequence type spread spectrum system operating in the 2400-2483.5MHz range.

This testing was performed on a 3-meter open area test site at Rubicom Systems, Inc. (RSI). The testing was performed for GE Harris Aviation Information Solutions, LLC under purchase order 980-3586 report is on file at Rubicom Systems under JA Number 1655. The results of this test effort demonstrate compliance of the Aircraft and Ground Segments to FCC, title 47, Paragraph 15.247(a)(2)(b),(c) and (d) for Intentional Radiators. The segment under test was S/N:30.

These tests were performed at the Rubicom Systems, Inc. 3 meter site located at 7608 Emerald Drive, West Melbourne, Florida.

1.0 INTRODUCTION

1.1 Purpose

The purpose of this report is to present the test procedures used and the test results gathered while testing the Aircraft and Ground Segments to CFR 47, Paragraph 15.247(a)(2), (b), (c) and (d).

1.2 Requirements

The test requirements for Paragraph 15.247 are as follows:

15.247(a)(2) BANDWIDTH

The minimum 6dB bandwidth shall be greater than 500KHz.

15.247(b) MAXIMUM PEAK OUTPUT POWER

The maximum peak output power of the transmitter shall not exceed 1 watt (30dBm). If transmitting antennas have directional gain of greater than 6dBi the transmit power shall be reduced, by the amount in dB, that is greater than the 6dBi. Example: If the directional gain equals 8dBi the transmit power must be reduced by 2dB.

15.247(c) OUT-OF BAND EMISSIONS/SPURIOUS EMISSIONS

Power produced by modulation products of the spreading sequence, information sequence and the carrier frequency.

RADIATED:

Levels in any 100KHz outside the frequency band shall be 20dB below that of any 100KHz band within the band that contains the highest level of the desired power or the requirements of 15.209, whichever results in lesser attenuation. All other ground emissions shall not exceed the limits of Section 15.209.

CONDUCTED:

All harmonics/spurs not in a restricted band, as defined by Section 15.205, must be -20dBc, i.e. 20dB below the highest emission level within the authorized band, as measured with a 100KHz RBW.

15.247(d) POWER SPECTRAL DENSITY

Transmitted power density averaged over any one (1) second interval shall not be greater than 8dB in any 3KHz bandwidth.

1.3 Unit Under Test Description

The Ground Data Link (GDL) Aircraft segment and ground segment utilize the same GDL RF assembly. The difference in the two configurations are the antennas. The aircraft segment utilizes a COMANT Industries, CI 150-32-L, 5.15 dBi Antenna. The ground segment utilizes a Cushcraft/Signals, S2403, 5.15 dBi antenna.

The RF Assembly contains an adaptive level control Circuit (ALC) which assumes constant output power delivered to the antenna, independent of input power level. The input dynamic range is 10dB, which accommodates a wide range of installation dependent R.F. cable lengths.

The approved transmitter module provides configurable output power settings of 100mw, 50mw and 20mw. The various aircraft and airport installations require different lengths of cable and the different output power settings are needed to compensate for the varying losses in the cable to assure the power delivered to the R.F. Assembly is within its dynamic range.

All testing was performed using the maximum 100mw output power setting. The actual test items are the R.F. Assembly and the two separate antennas. See the attached test plan (Appendix B) for a more detailed description of the system test approach.

1.4 Summary of Results

Paragraph 6.0 of this document presents the procedures and the detailed results of each required test for the Aircraft and Ground Segments.

No modifications were required of the unit under test for this effort.

The data shows compliance to the requirements of CFR 47, Paragraph 15.247(a)(2), (b), (c) and (d).

2.0 APPLICABLE DOCUMENTS

The following documents form a part of this report to the extent expressed herein:

FCC Code of Federal Regulations Title 47, Part 15

FCC Procedure for Measuring RF Emissions from Computing Devices FCC/OET MP-4, July 1987

ANSI C63.4-1991

FCC Characteristics of Open Field Test Sites Bulletin OET 55, October 1989

FCC Test Plan for the Generation 1, Ground Data Link (GDL) Aircraft Segment and Ground Segment.

3.0 TEST SITE DESCRIPTION

This testing was performed at Rubicom Systems, Inc. (RSI) 3-meter open area test site. The description of the measurement facility was found to be compliant with the requirements of Section 2.948 of the FCC Rules.

3.1 Environmental Conditions

This test effort was performed from May 27, 1999 through June 4, 1999. Typical conditions for the test site during this testing were:

Temperature:	**85° - 90°**
Barometer:	**29.00 inches**
Humidity:	**60% - 90%**

4.0 TEST INSTRUMENTATION

The following test equipment was used to perform this testing.

Qty.	Description	Manufacturer	Model No.	Last Cal.	Cal Cycle
1	Spectrum Analyzer	Advantest	R3271A	03/10/99	1 Yr.
1	BiLog Antenna.	Chase	CLB6111B	07/24/98	1 Yr.
1	Plotter	Hewlett Packard	7440A	NCR	NCR
1	Ridge Guide Horn Ant.	Electro Metrics	RGA-180	01/15/99	1 Yr.
1	Standard Gain Horn Antenna	NARDA	Model 638 18-26GHz	NCR	NCR
1	Pre Amplifier	Hewlett Packard	HP8449B	01/25/99	1 Yr.
1	Peak Power Meter	Hewlett Packard	8900D	04/12/99	1 Yr.
1	Notch Filter	Lorch	19435	03/02/99	1 Yr.

5.0 TEST SAMPLE SETUP AND CONFIGURATIONS

During radiated spurious emissions to evaluate the Segment under test, the operating system was remoted from the amplifier and antenna (75' cable) and placed inside the building. The Aircraft Segment amplifier and antenna were placed on the OATS turntable. Power to the amplifier was provided via the 75' cable. To evaluate the ground segment the antenna was replaced.

Photo 1 shows the radiated test setup for the Aircraft Segment.

Photo 2 shows the setup for the Ground Segment.

(Included in Test Setup Photos File)

Photo 1

(Included in Test Setup Photos File)

Photo 2

6.0 PROCEDURES AND RESULTS

6.1 General

The data presented in this report is provided using the Advantest Spectrum Analyzers. The analyzer allows the antenna factors/cable loss, etc., to be listed in tables on a memory card. Test setups are preprogrammed. This method allows the tester to plot data instantaneously against the specification requirement. The detailed test procedure provided by GE Harris is attached as Appendix B of this document.

Signal identification is partially accomplished by turning the system power "on" and "off" while observing the spectrum. All signals found to be emitting from the EUT are maximized in azimuth and elevation. Should the need arise to have more than a single plot of the frequency range the maximized signal would be linked to the proper plot.

The displayed levels are calculated in the analyzer as follows: MTR Reading + Antenna Factor + Cable Loss + Gain (where appropriate) = Signal Level.

NOTE: The correction factors and conversion factors are combined in the memory card.

Test procedures and data is presented in the following paragraphs:

6.2 6dB Bandwidth

6.3 Maximum Peak Output Power

6.4 Out of Band Emissions/Spurious Emissions

6.4.1 Radiated

6.4.2 Conducted

6.5 Power Spectral Density

6.2 6dB Bandwidth

Paragraph: 47 CFR 15.247(a)(2)

Requirement: 6dB bandwidth shall be at least 500KHz.

Test Procedure: The bandwidth measurements were performed at the min, mid and max frequencies at the four (4) data rates of 1Mbps, 2Mbps, 5.5Mbps and 11Mbps. The minimum bandwidth was found to be 9.4MHz and the maximum bandwidth was 11.2MHz. All bandwidths are well above the minimum 500KHz requirement.

Data plots are provided in Data Sheets 6.2-1 through 6.2-12.

6.3 Maximum Peak Output Power

Paragraph: 47 CFR 15.247 (b)

Conducted Spec. Limit: 1 watt peak into antenna

Test Procedure: The UUT was configured to continuously transmit using the built in pseudo-random noise spreading code sequence and data modulation sequence provided by the manufacturer of the approved transmitter module for the purpose of FCC testing. The highest emission level within the authorized band was measured. The peak power level is recorded below. The carrier frequency of the UUT was 2412MHz, 2442MHz and 2465MHz. The data rate was 11Mbps.

The data is presented below for each frequency. All levels were below the 1 watt peak power limit.

2412MHz = .197 Watts = +23dBm

2442MHz = .180 Watts = +22.6dBm

2462MHz = .196 Watts = +23dBm

6.4 Out of Band Emissions/spurious Emissions

6.4.1 Conducted

Paragraph: 47 CFR 15.247(c)

Conducted Spec. Limit: All harmonics/spurs not in a restricted band, as defined by

Section 15.205, must be -20dBc, i.e. 20dB below the highest emission level within the authorized band as measured with a 100KHz RBW.

Test Procedure: The unit was tested at 2412 and 2462MHz channels in the transmit mode using all four (4) modulations. The 2442 channel was tested in transmit and receive mode using the 11Mbps modulation.

Data Sheets 6.4.1-1 through 6.4.1-10 present the scanned data. No signals were found to be within 20dB of the highest emission level.

6.4.2 Radiated (Aircraft Segment

Paragraph: 47 CFR 15.247 (c)

Radiated Spec. Limit:Levels in any 100KHz outside the frequency band shall be 20dB below that of any 100KHz band within the band that contains the highest level of the desired power or the requirements of 15.209, whichever results in lesser attenuation. All emissions within the restricted bands (Section 15.205) shall not exceed the limits of Section 15.209(a).

Test Procedure: For measurements from 30MHz to 1GHz quasi peak scans were performed. Above 1GHz the spectrum analyzer RBW was set to 1MHz and the VBW to 10Hz. These sweeps were performed from 1GHz to 25GHz and were compared to the average limit of 54dB V/m at 3 meters. Sweeps were also performed from 1GHz to 25GHz with a RBW and VBW of 1MHz. This data was compared to the peak limit of 74dB V/m at 3 meters. The carrier frequency of the UUT was 2442MHz. The data rate was 11 Mbps.

Aircraft Segment Data: Data Sheets 6.4.2-1 through 6.4.2-16 present the peak and average data around the transmit frequency compared to the close-in restricted bands for channel 2412 using four (4) modulation rates in horizontal and vertical for the Aircraft antenna.

Data Sheets 6.4.2-17 through 6.4.2-20 present the (mid channel) 2442 with 11Mbps modulation.

Data Sheets 6.4.2-21 through 6.4.2-36 present the (max channel) 2462 at the four modulation rates.

Data Sheets 6.4.2-37 through 6.4.2-60 present the peak and average data up to 25GHz for the Aircraft segment.

Results: There were no signals detected other than the transmitter fundamental in any of the Aircraft segment testing. All levels were below the 15.209(a) levels.

6.4.3 Ground Segment Data

Data Sheets 6.4.3-1 through 6.4.3-16 present the peak and average data around the transmit frequency and compared to the close in restricted bands for channel 2412 using the four (4) modulation rates.

Data Sheets 6.4.3-17 through 6.4.3-20 present the (mid channel) 2442 with the 11Mbps modulation.

Data Sheets 6.4.3-21 through 6.4.3-36 present the (max channel) 2462 at the four (4) modulation rates.

Data Sheets 6.4.3-37 through 6.4.3-60 present the peak and average sweeps to 25GHz for the ground segment.

Data Sheets 6.4.3-61 through 6.4.3-76 present the receive mode radiated data.

Results: No signals were detected other than the intended transmit signal in the transmit or receive mode. Therefore, all levels are compliant to Paragraph 15.209(a).

6.4.4 Ambients

Data Sheets 6.4.4-1 through 6.4.4-24 present the ambient radiated data over the 30MHz to 25GHz range.

6.4.5 Preliminary Scans

Data Sheets 6.4.5-1 through 6.4.5-12 present a preliminary sweep of the airborne segment inside the semi-anechoic chamber. The results of the ground segment were the same. As can be seen there were no signals emanating from the segment.

6.5 Power Spectral Density

Name of Test: Power Spectral Density

Paragraph: 46 CFR 15.247(d)

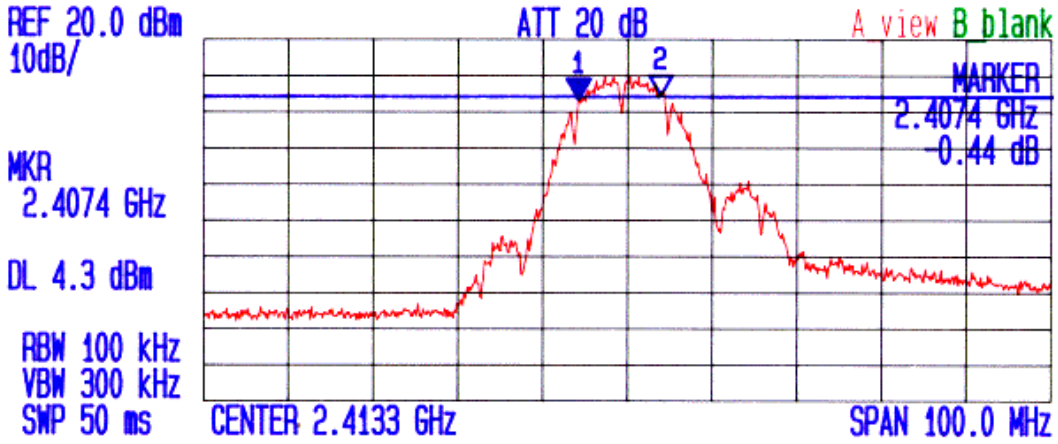
Conducted Spec Limit: The transmitted power density averaged over any 1-second interval shall not be greater than +8dBm in any 3KHz bandwidth within the band.

Test Procedure: The UUT was configured to continuously transmit using the built in pseudo-random noise spreading code sequence and data modulation sequence provided by the manufacturer of the approved transmitter module for the purpose of FCC testing. The RBW of the spectrum analyzer was set to 3KHz, the VBW to 10KHz (>RBW), the span = 900KHz and the sweep = 300 sec. (Span/3KHz = sweep).

Each of the carrier frequency ranges was divided into three 300 second sweeps. The transmitter could not continuously transmit for more than 5 minutes or damage would occur. The carrier frequency of the UUT was 2412MHz, 2442MHz and 2462MHz. The data rates were 1, 2, 5.5 and 11Mbps.

Data Sheets 6.5-1 through 6.5-24 present the scanned data for all three (3) carrier frequencies and the four (4) modulation rates.

TEST: FCC 6dB BANDWIDTH	EUT: GE/HARRIS GDL		S/N: 030
FREQ: 2.412 GHz	SPEC: 15.247 (a) (2)		ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST:	1 Mbps	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1		TESTER: AB

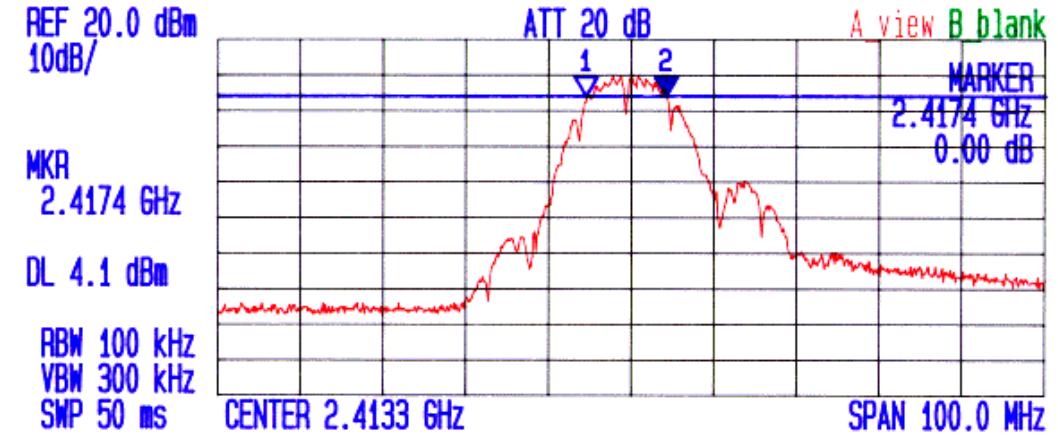


*** Multi Marker List ***

No.1:	2.4074 GHz	-0.44 dB	A
No.2:	2.4171 GHz	0.66 dB	A

Figure 6.2-1: Data Sheet

TEST: FCC 6dB BANDWIDTH	EUT: GE/HARRIS GDL		S/N: 030
FREQ: 2.412 GHz	SPEC: 15.247 (a) (2)		ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST:	2 Mbps	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1		TESTER: AB



*** Multi Marker List ***

No.1:	2.4077 GHz	0.13 dB	A
No.2:	2.4174 GHz	0.00 dB	A

Figure 6.2-2: Data Sheet

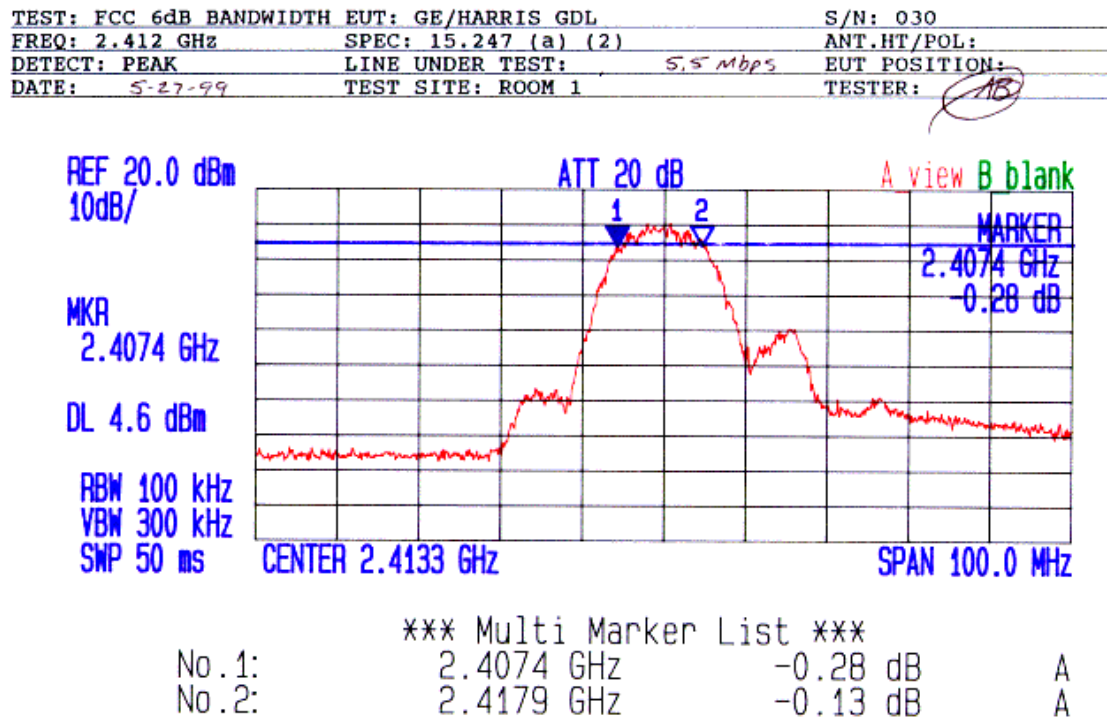


Figure 6.2-3: Data Sheet

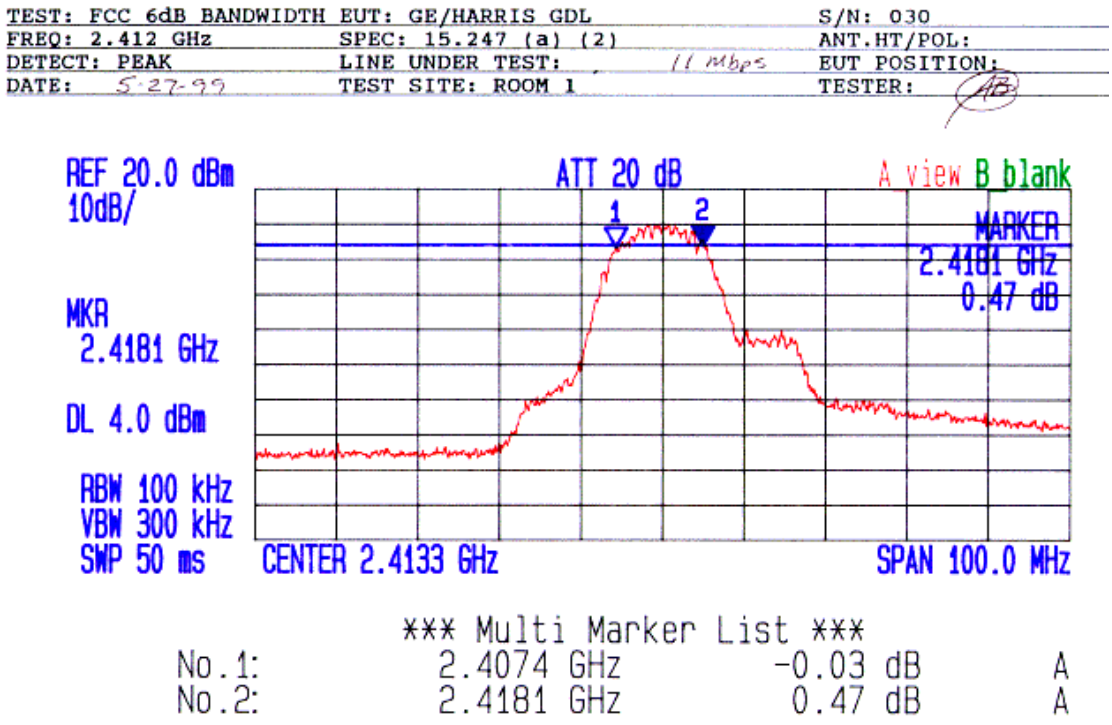
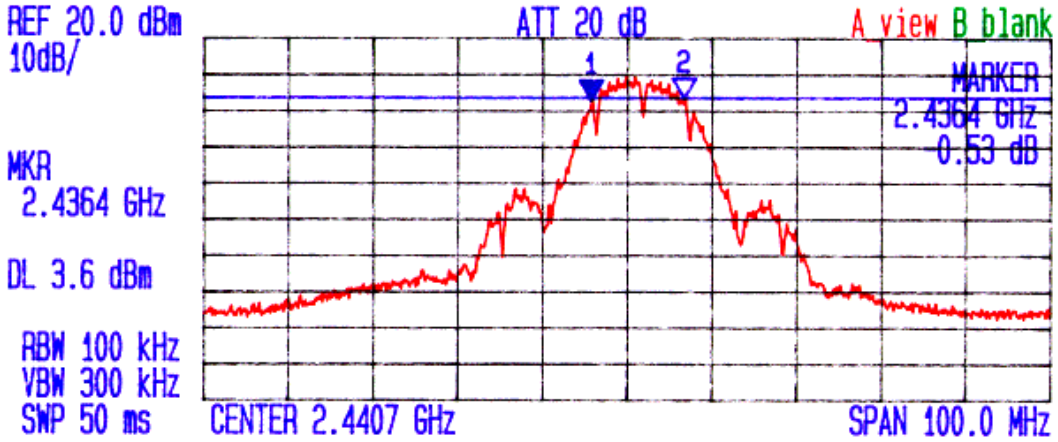


Figure 6.2-4: Data Sheet

TEST: FCC 6dB BANDWIDTH	EUT: GE/HARRIS GDL		S/N: 030
FREQ: 2.442 GHz	SPEC: 15.247 (a) (2)		ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST:	1 Mbps	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1		TESTER: AB

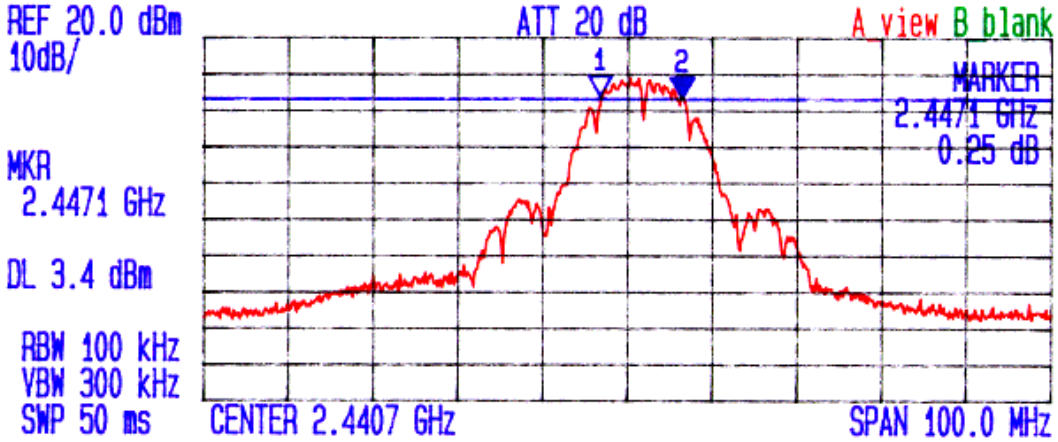


*** Multi Marker List ***

No.1:	2.4364 GHz	-0.53 dB	A
No.2:	2.4474 GHz	0.00 dB	A

Figure 6.2-5: Data Sheet

TEST: FCC 6dB BANDWIDTH	EUT: GE/HARRIS GDL		S/N: 030
FREQ: 2.442 GHz	SPEC: 15.247 (a) (2)		ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST:	2 Mbps	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1		TESTER: AB

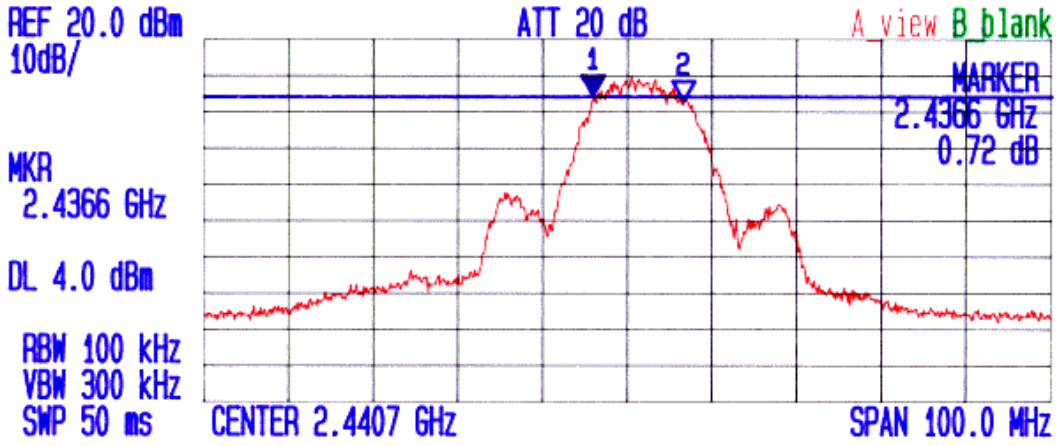


*** Multi Marker List ***

No.1:	2.4374 GHz	0.81 dB	A
No.2:	2.4471 GHz	0.25 dB	A

Figure 6.2-6: Data Sheet

TEST: FCC 6dB BANDWIDTH	EUT: GE/HARRIS GDL		S/N: 030
FREQ: 2.442 GHz	SPEC: 15.247 (a) (2)		ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST:	5.5 mbps	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1		TESTER:

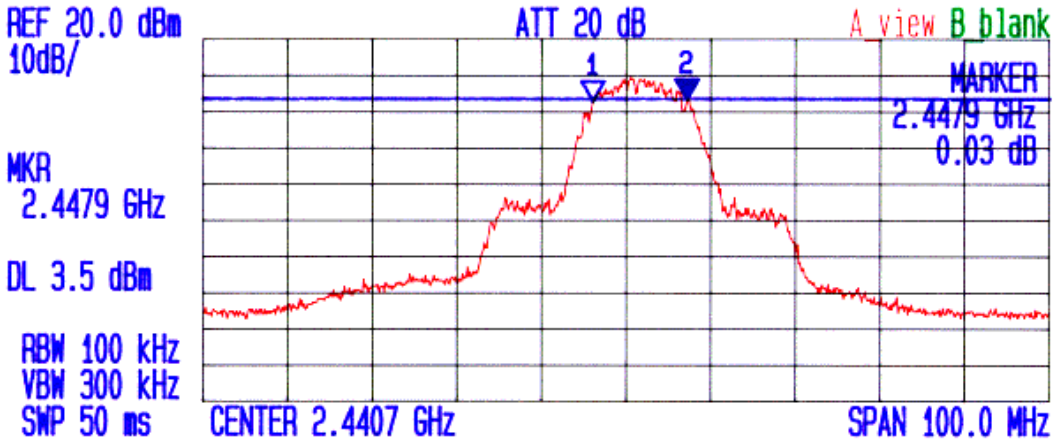


*** Multi Marker List ***

No.1:	2.4366 GHz	0.72 dB	A
No.2:	2.4473 GHz	-1.00 dB	A

Figure 6.2-7 Data Sheet

TEST: FCC 6dB BANDWIDTH	EUT: GE/HARRIS GDL		S/N: 030
FREQ: 2.442 GHz	SPEC: 15.247 (a) (2)		ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST:	11 mbps	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1		TESTER:

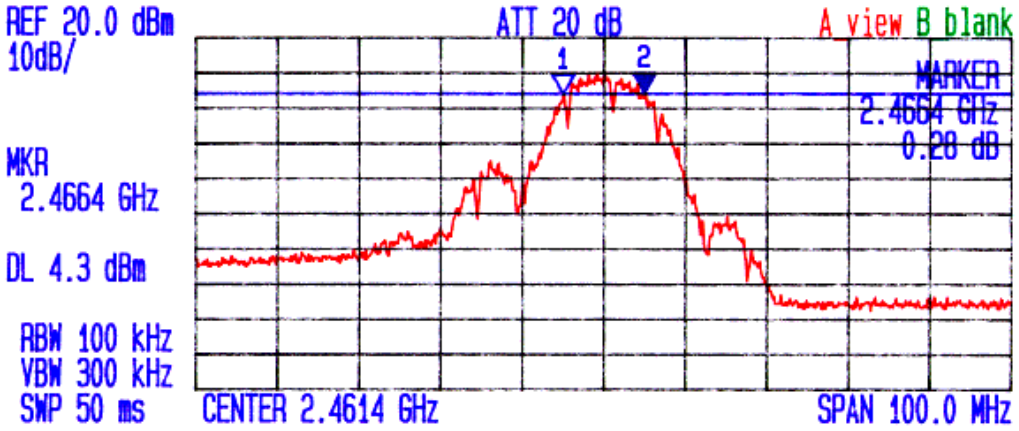


*** Multi Marker List ***

No.1:	2.4367 GHz	-0.03 dB	A
No.2:	2.4479 GHz	0.03 dB	A

Figure 6.2-8 Data Sheet

TEST: FCC 6dB BANDWIDTH	EUT: GE/HARRIS GDL		S/N: 030
FREQ: 2.462 GHz	SPEC: 15.247 (a) (2)		ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST:	(1 Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1		TESTER: AB

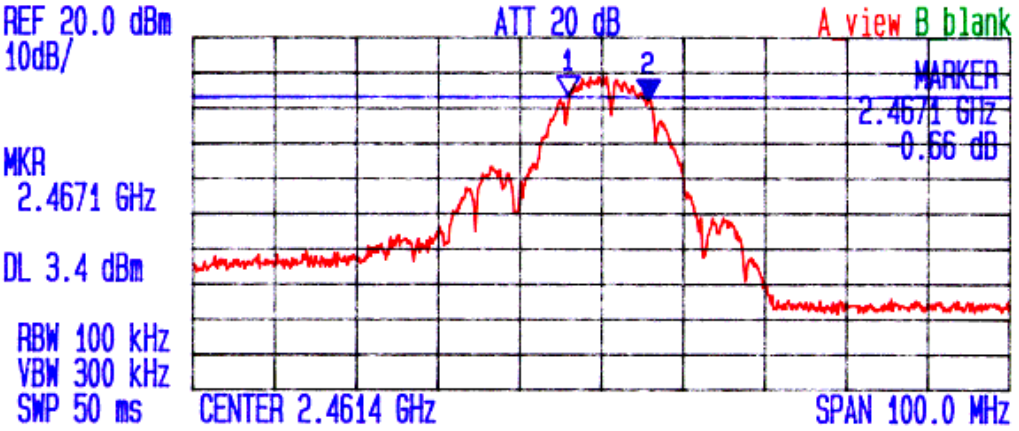


*** Multi Marker List ***

No.1:	2.4564 GHz	0.13 dB	A
No.2:	2.4664 GHz	0.28 dB	A

Figure 6.2-9: Data Sheet

TEST: FCC 6dB BANDWIDTH	EUT: GE/HARRIS GDL		S/N: 030
FREQ: 2.462 GHz	SPEC: 15.247 (a) (2)		ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST:	(2 Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1		TESTER: AB

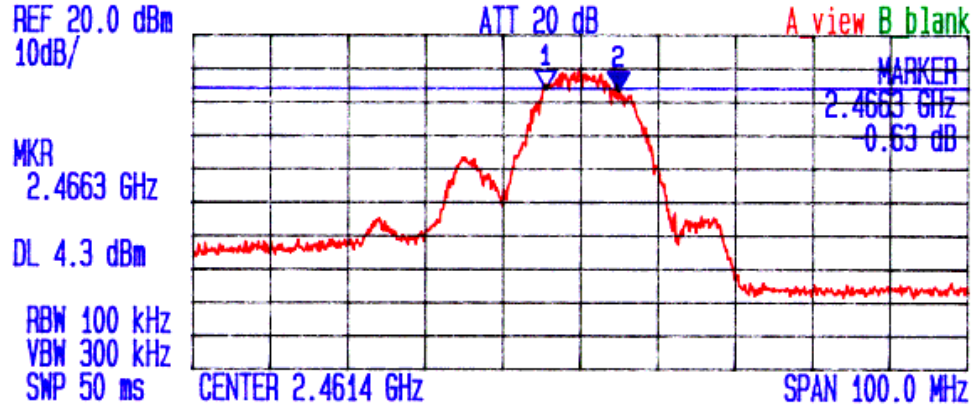


*** Multi Marker List ***

No.1:	2.4573 GHz	0.25 dB	A
No.2:	2.4671 GHz	-0.66 dB	A

Figure 6.2-10: Data Sheet

TEST: FCC 6dB BANDWIDTH	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.462 GHz	SPEC: 15.247 (a) (2)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: (5.5 Mbps)	EUT POSITION:
DATE: 5-24-99	TEST SITE: ROOM 1	TESTER:

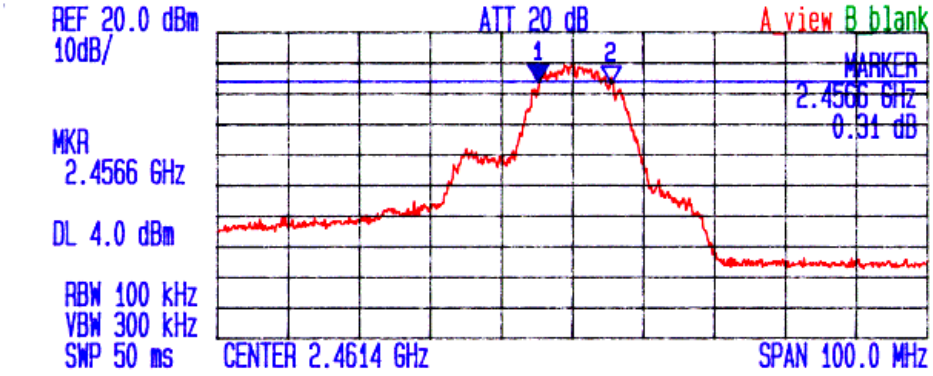


*** Multi Marker List ***

No.1:	2.4569 GHz	0.03 dB	A
No.2:	2.4663 GHz	-0.63 dB	A

Figure 6.2-11: Data Sheet

TEST: FCC 6dB BANDWIDTH	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.462 GHz	SPEC: 15.247 (a) (2)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: (11 Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER:



*** Multi Marker List ***

No.1:	2.4566 GHz	0.31 dB	A
No.2:	2.4669 GHz	-0.03 dB	A

Figure 6.2-12: Data Sheet

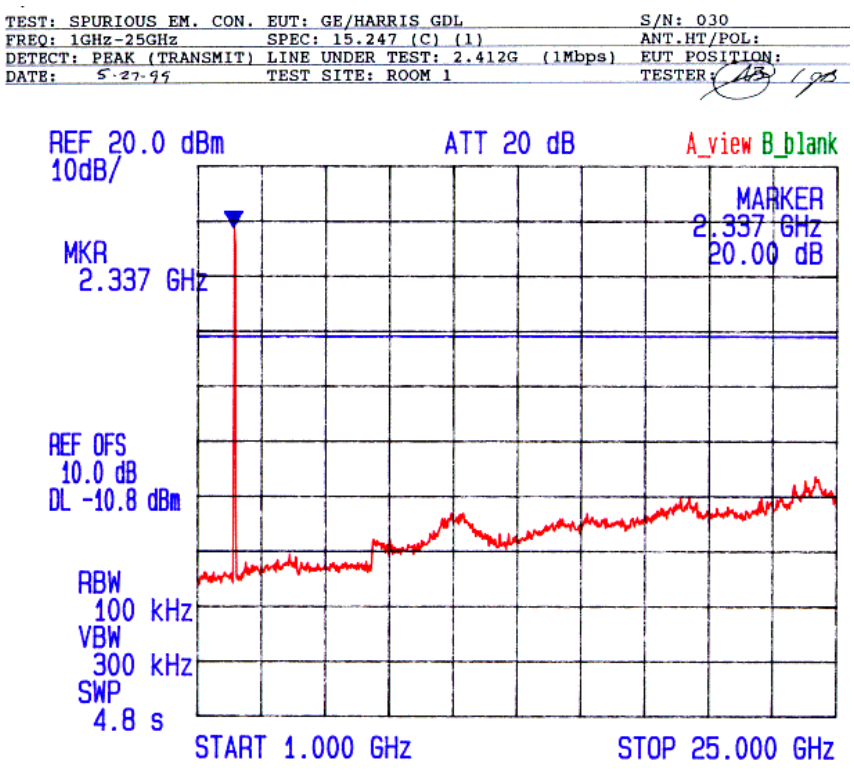


Figure 6.4.1-1: Data Sheet

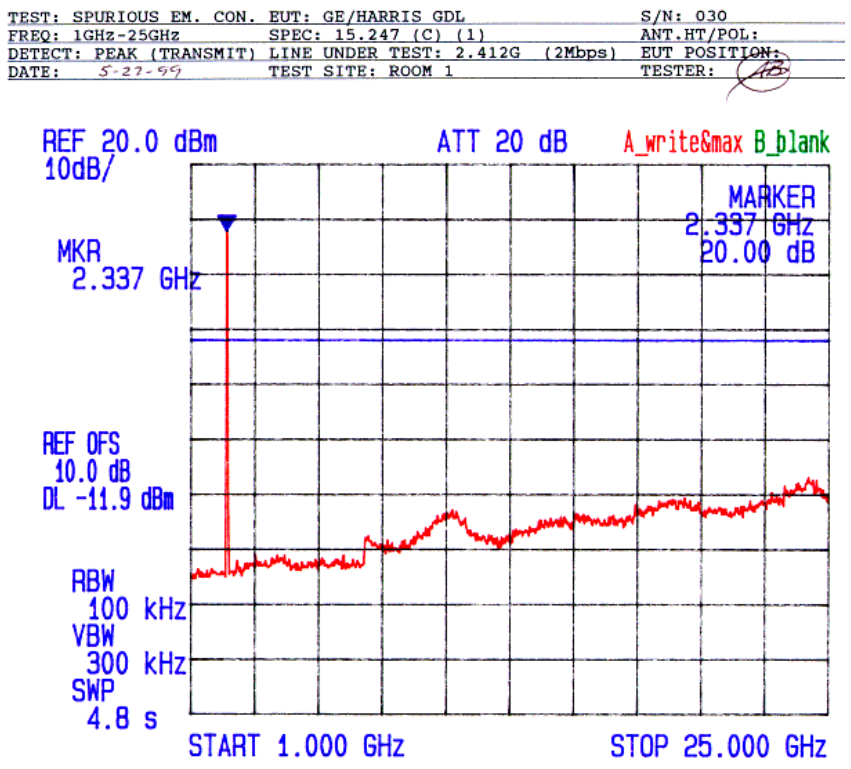


Figure 6.4.1-2: Data Sheet

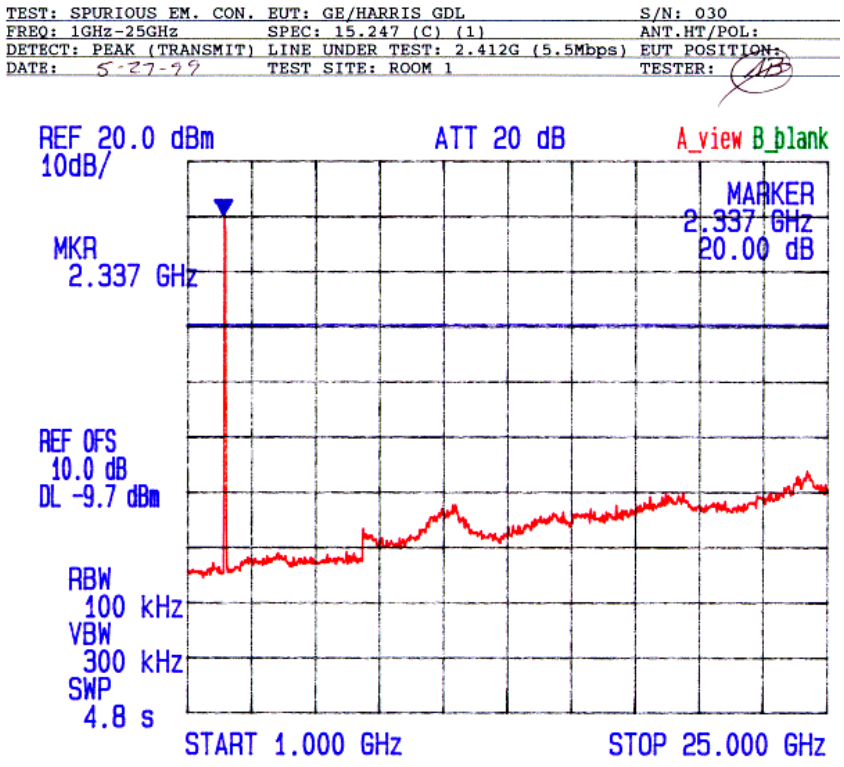


Figure 6.4.1-3: Data Sheet

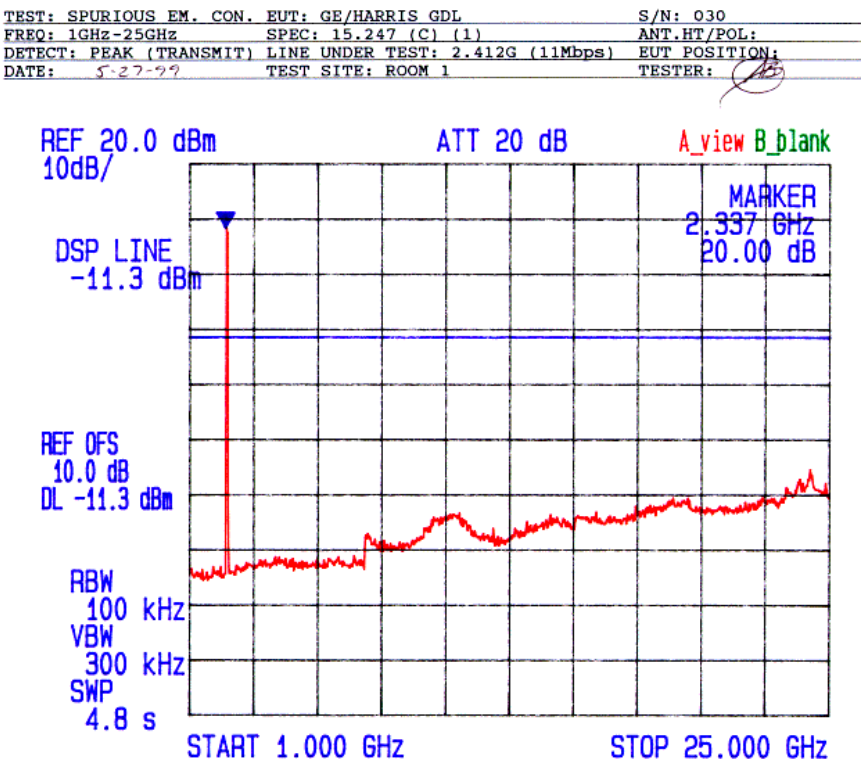


Figure 6.4.1-4: Data Sheet

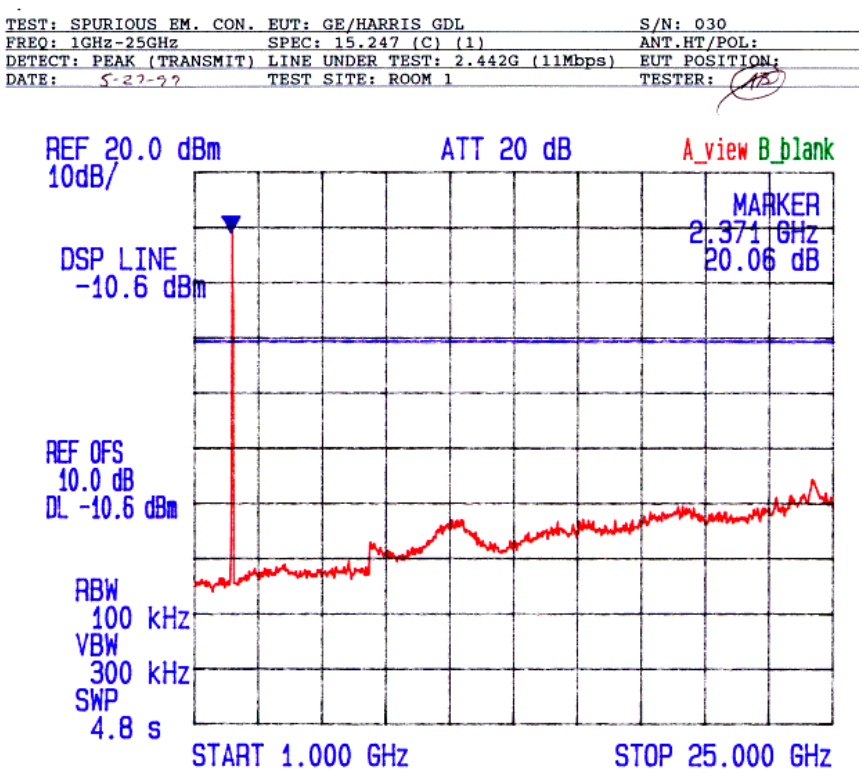


Figure 6.4.1-5: Data Sheet

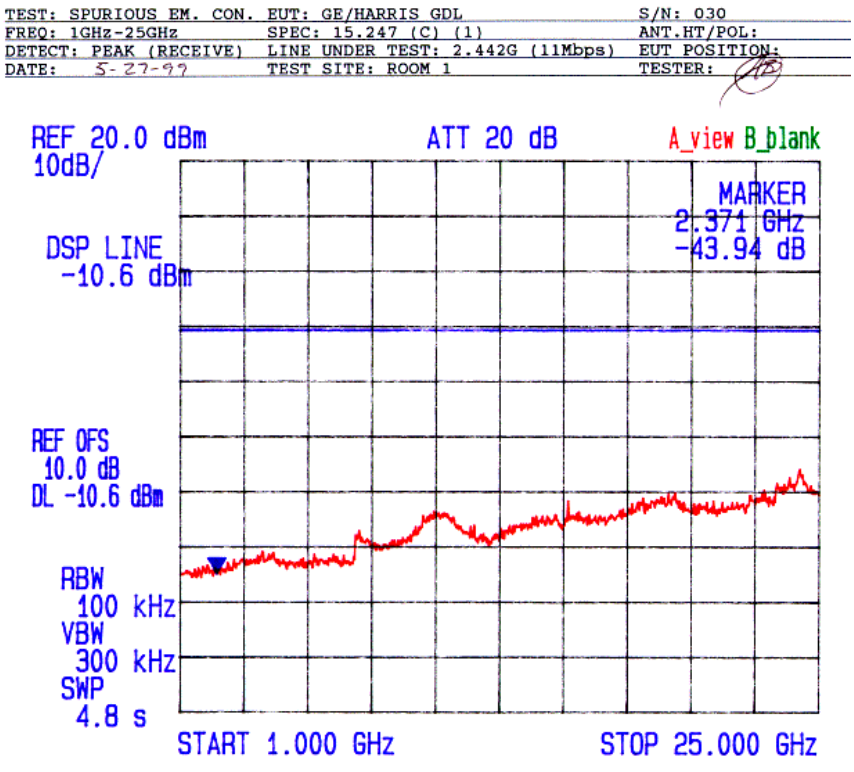


Figure 6.4.1-6: Data Sheet

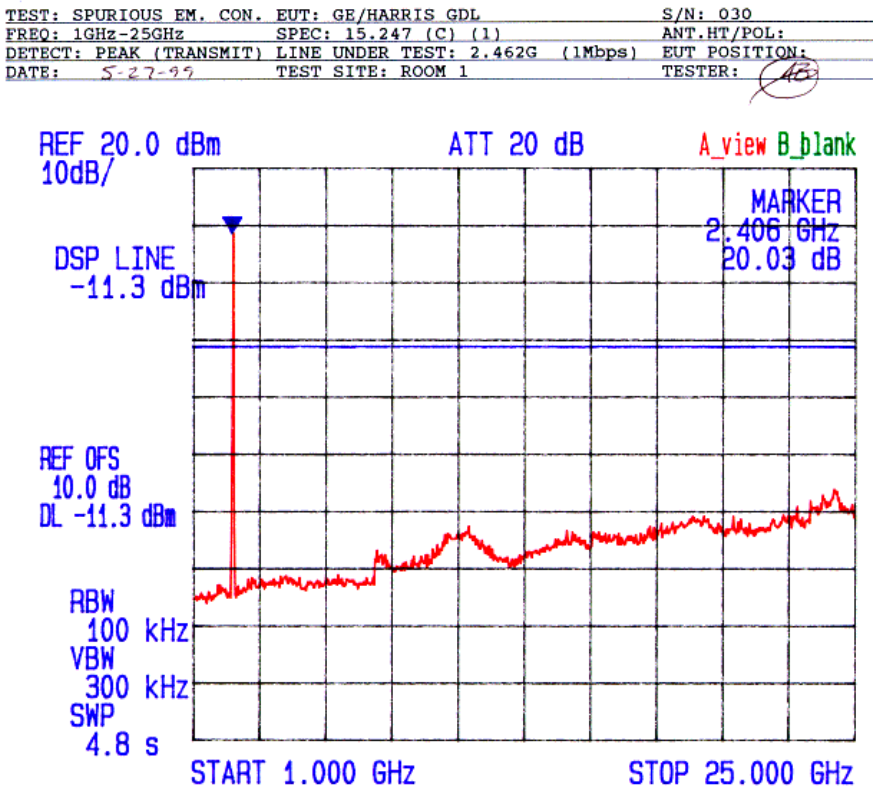


Figure 6.4.1-7: Data Sheet

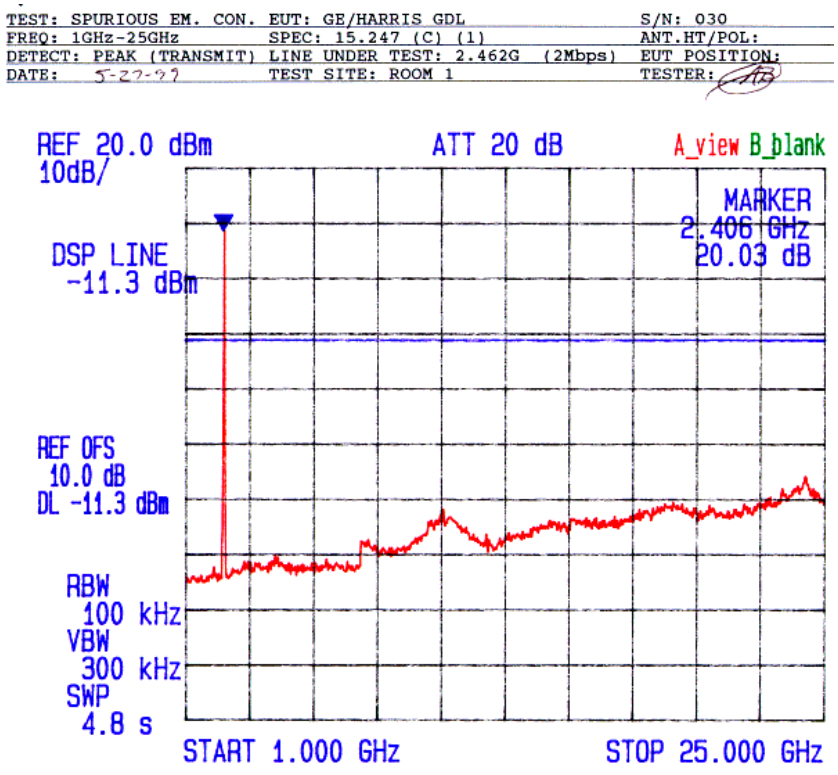


Figure 6.4.1-8: Data Sheet

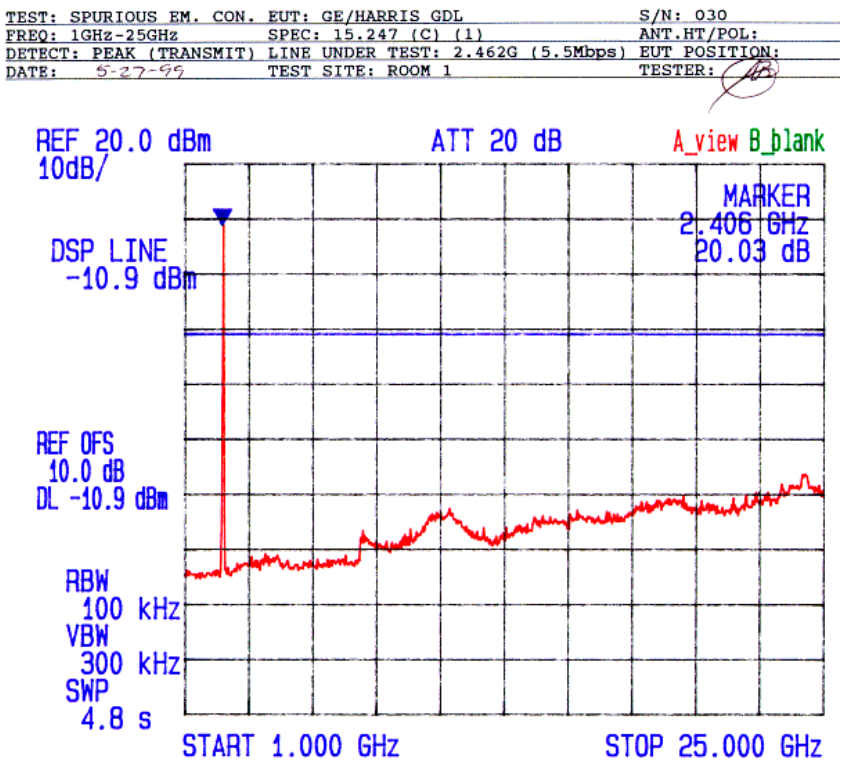


Figure 6.4.1-9: Data Sheet

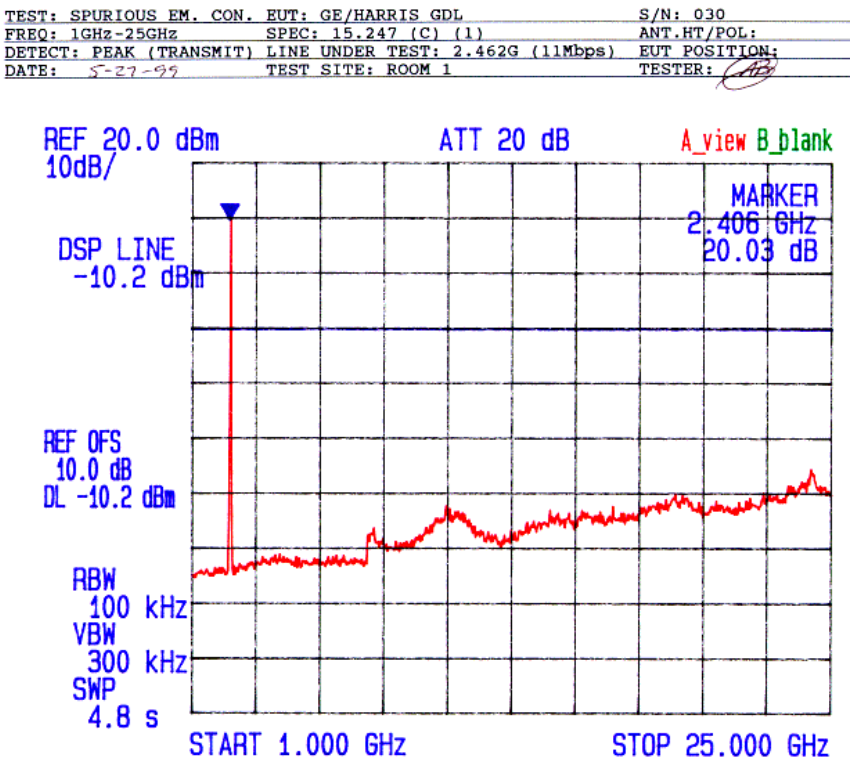
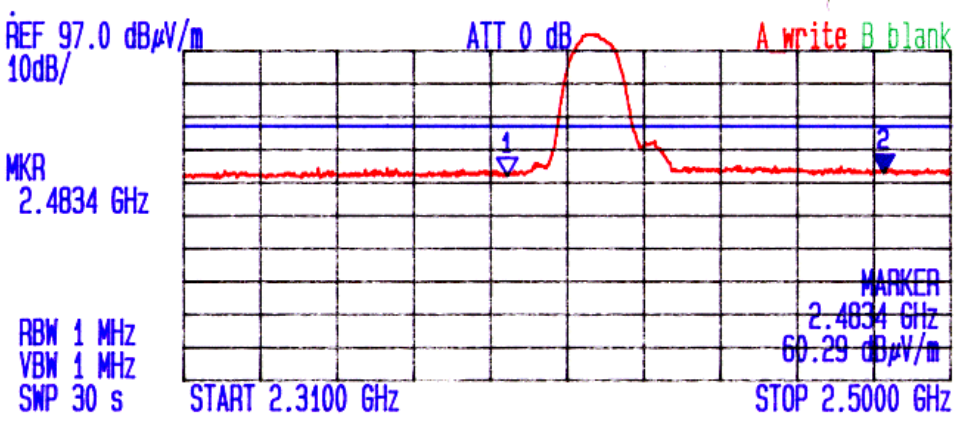


Figure 6.4.1-10: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: H
DETECT: PEAK	LINE UNDER TEST: 2.412G (1Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

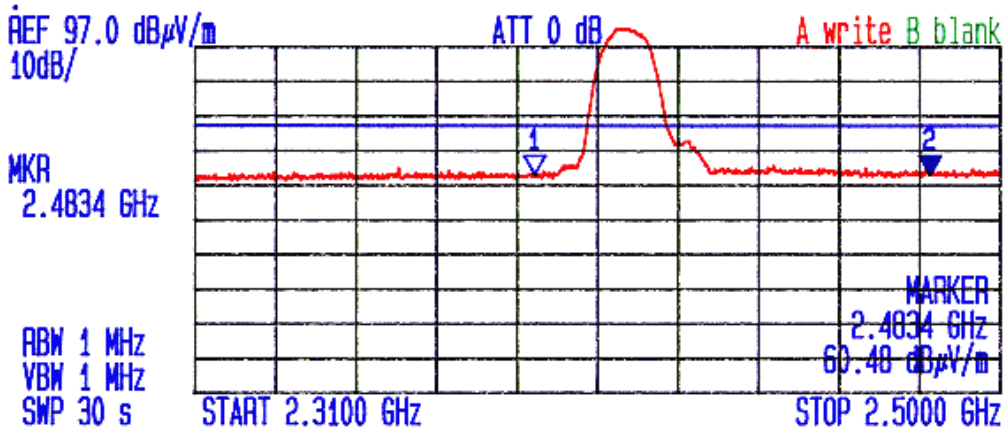


*** Multi Marker List ***

No.1:	2.3901 GHz	59.49 dBµV/m	A
No.2:	2.4834 GHz	60.29 dBµV/m	A

Figure 6.4.2-1: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: H
DETECT: PEAK	LINE UNDER TEST: 2.412G (2Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

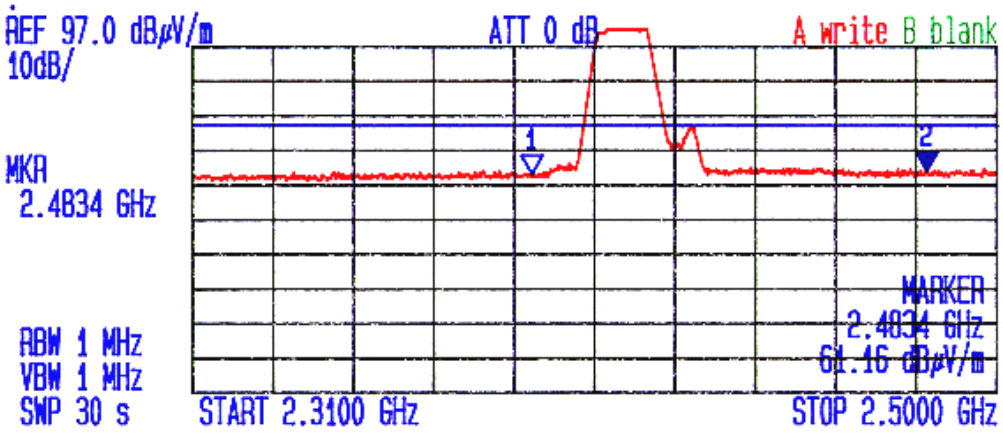


*** Multi Marker List ***

No.1:	2.3901 GHz	60.09 dBµV/m	A
No.2:	2.4834 GHz	60.48 dBµV/m	A

Figure 6.4.2-2: Data Sheet

TEST: RESTRICTED BANDS		EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:		SPEC: 15.247	ANT.HT/POL: H
DETECT:	PEAK	LINE UNDER TEST: 2.412G (5.5Mbps)	EUT POSITION:
DATE:	6-1-99	TEST SITE: 3-METER	TESTER:

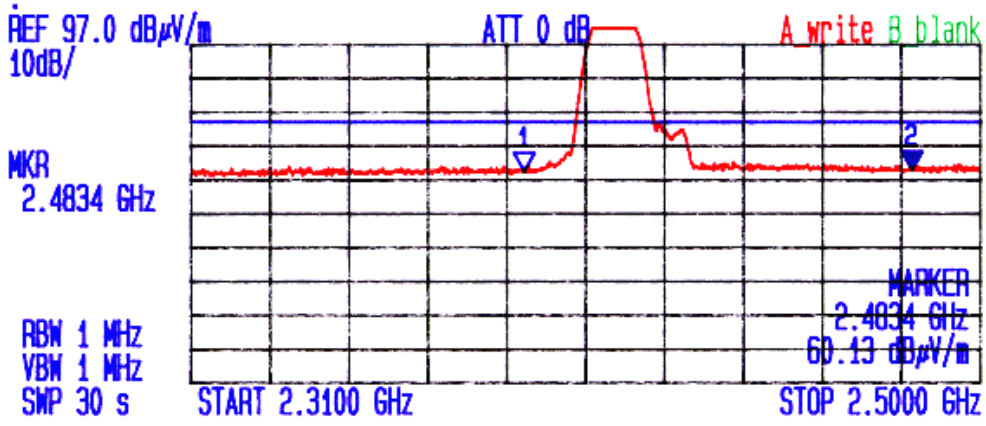


*** Multi Marker List ***

No.1:	2.3901 GHz	60.46 dBµV/m	A
No.2:	2.4834 GHz	61.16 dBµV/m	A

Figure 6.4.2-3: Data Sheet

TEST: RESTRICTED BANDS		EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:		SPEC: 15.247	ANT.HT/POL: H
DETECT:	PEAK	LINE UNDER TEST: 2.412G (11Mbps)	EUT POSITION:
DATE:	6-1-99	TEST SITE: 3-METER	TESTER:

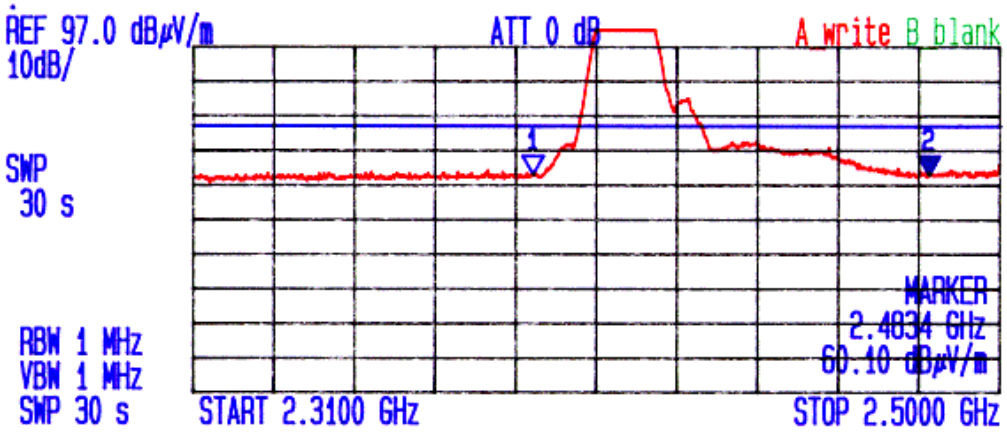


*** Multi Marker List ***

No.1:	2.3901 GHz	59.87 dBµV/m	A
No.2:	2.4834 GHz	60.13 dBµV/m	A

Figure 6.4.2-4: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	V
DETECT: PEAK	LINE UNDER TEST: 2.412G (1Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	

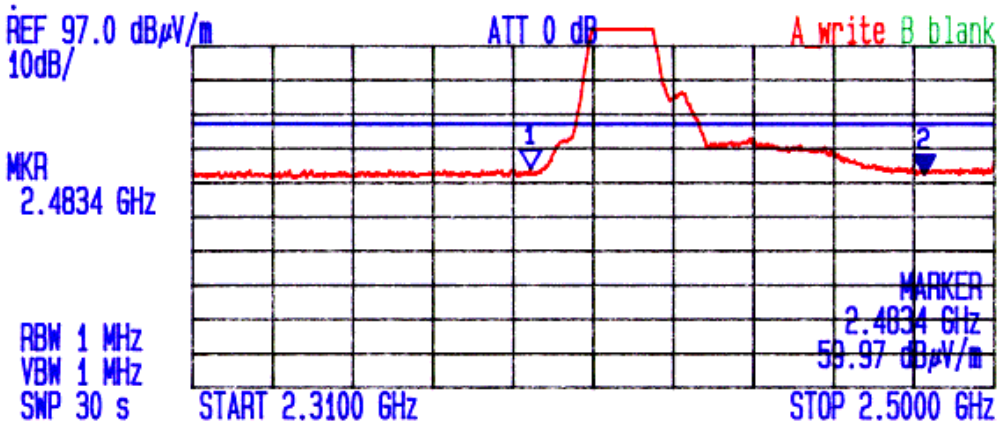


*** Multi Marker List ***

No.1:	2.3901 GHz	60.36 dBµV/m	A
No.2:	2.4834 GHz	60.10 dBµV/m	A

Figure 6.4.2-5: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	V
DETECT: PEAK	LINE UNDER TEST: 2.412G (2Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	

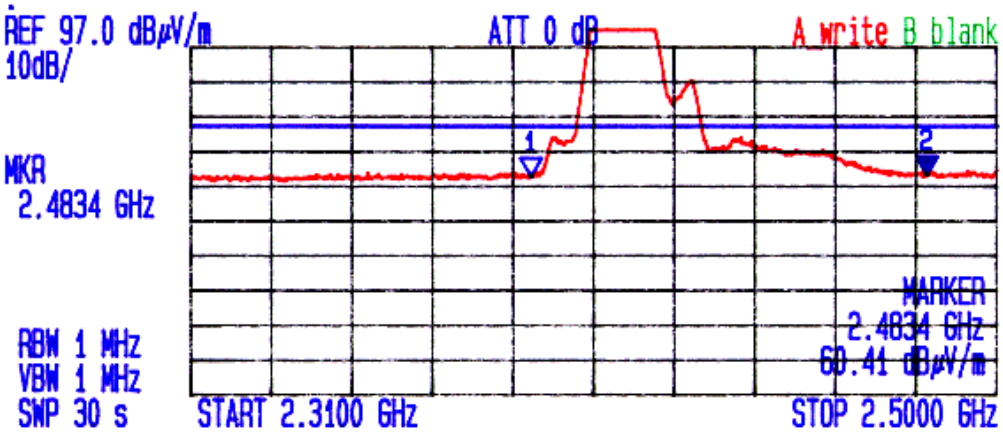


*** Multi Marker List ***

No.1:	2.3901 GHz	61.09 dBµV/m	A
No.2:	2.4834 GHz	59.97 dBµV/m	A

Figure 6.4.2-6: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	V
DETECT: PEAK	LINE UNDER TEST: 2.412G (5.5Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	

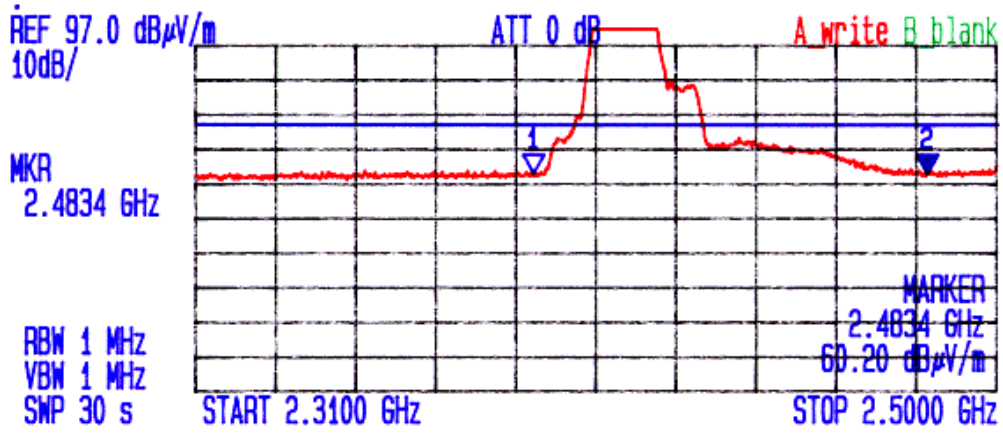


*** Multi Marker List ***

No.1:	2.3901 GHz	59.73 dBµV/m	A
No.2:	2.4834 GHz	60.41 dBµV/m	A

Figure 6.4.2-7: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	V
DETECT: PEAK	LINE UNDER TEST: 2.412G (11Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	



*** Multi Marker List ***

No.1:	2.3901 GHz	60.16 dBµV/m	A
No.2:	2.4834 GHz	60.20 dBµV/m	A

Figure 6.4.2-8: Data Sheet

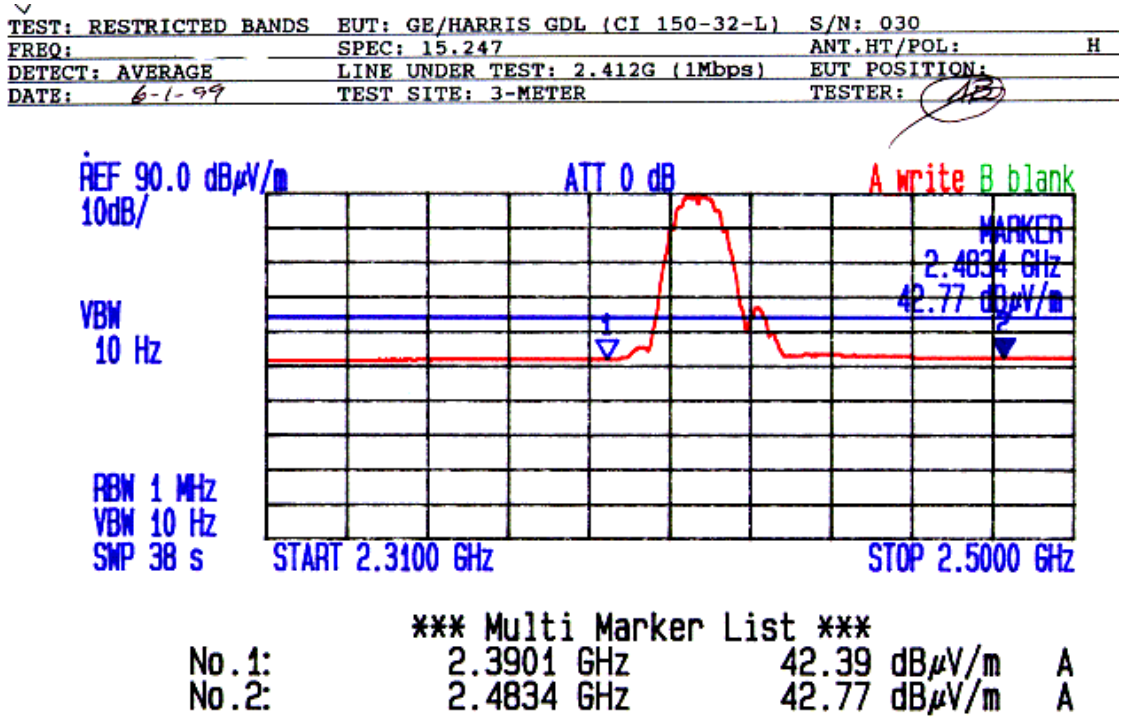


Figure 6.4.2-9: Data Sheet

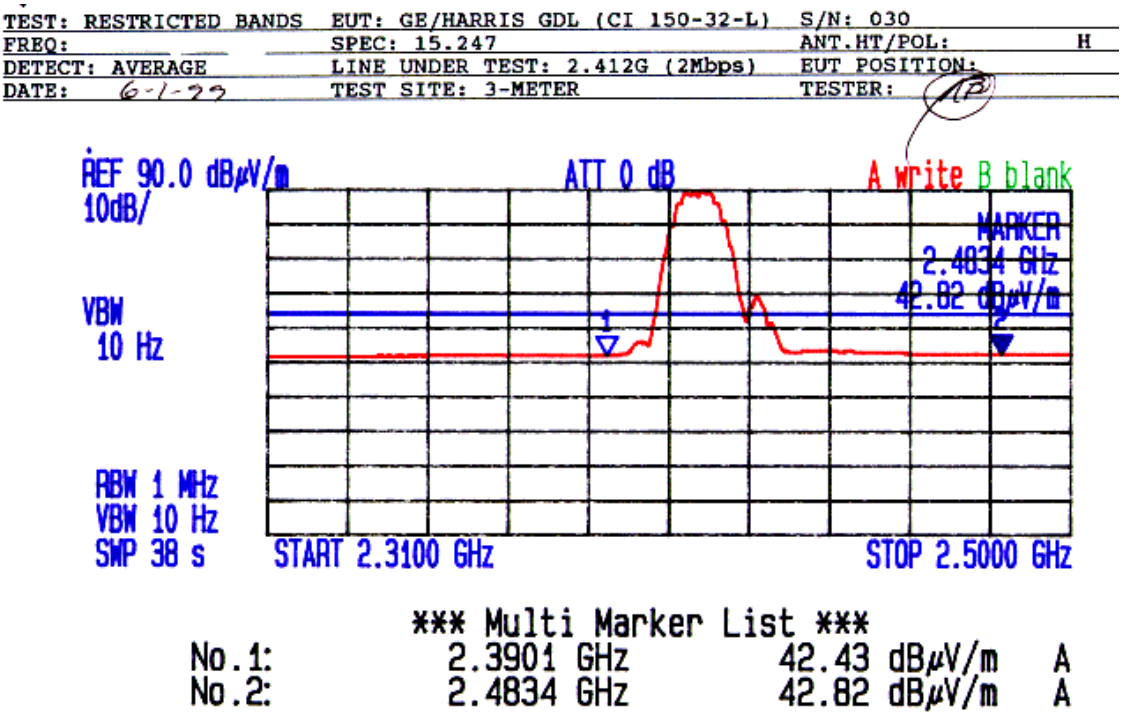
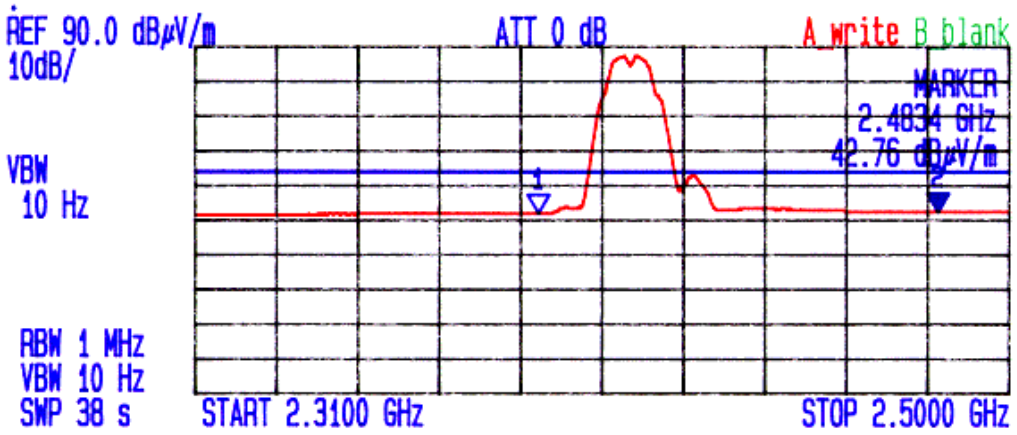


Figure 6.4.2-10: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	H
DETECT: AVERAGE	LINE UNDER TEST: 2.412G (5.5Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	

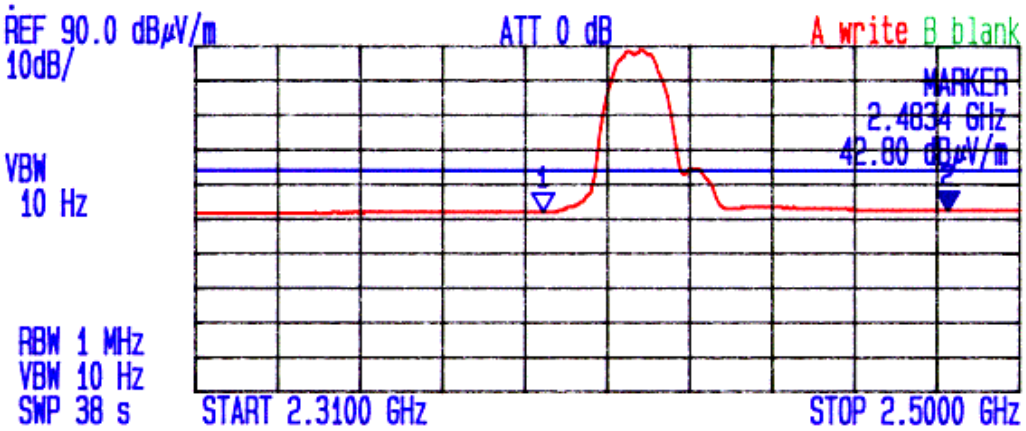


*** Multi Marker List ***

No.1:	2.3901 GHz	42.42 dBµV/m	A
No.2:	2.4834 GHz	42.76 dBµV/m	A

Figure 6.4.2-11: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	H
DETECT: AVERAGE	LINE UNDER TEST: 2.412G (11Mbps)	EUT POSITION:	
DATE:	TEST SITE: 3-METER	TESTER:	

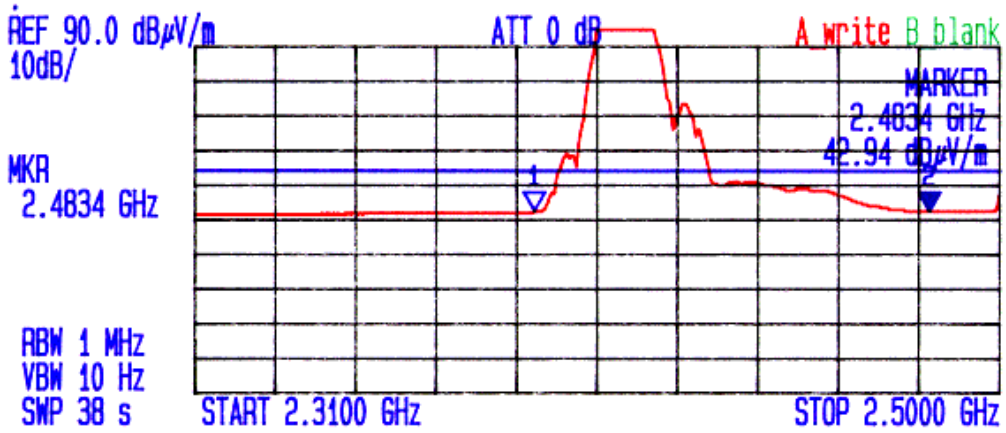


*** Multi Marker List ***

No.1:	2.3901 GHz	42.37 dBµV/m	A
No.2:	2.4834 GHz	42.80 dBµV/m	A

Figure 6.4.2-12: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: V
DETECT: AVERAGE	LINE UNDER TEST: 2.412G (1Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

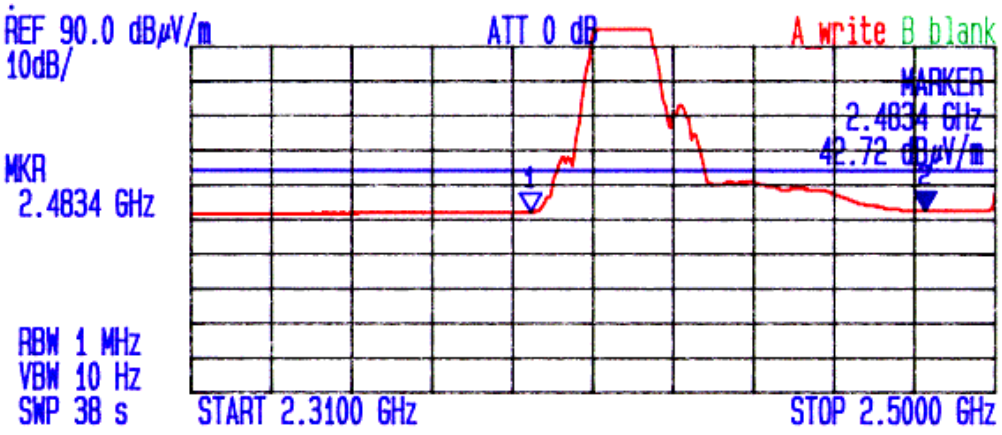


*** Multi Marker List ***

No.1:	2.3901 GHz	42.57 dBµV/m	A
No.2:	2.4834 GHz	42.94 dBµV/m	A

Figure 6.4.2-13: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: V
DETECT: AVERAGE	LINE UNDER TEST: 2.412G (2Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

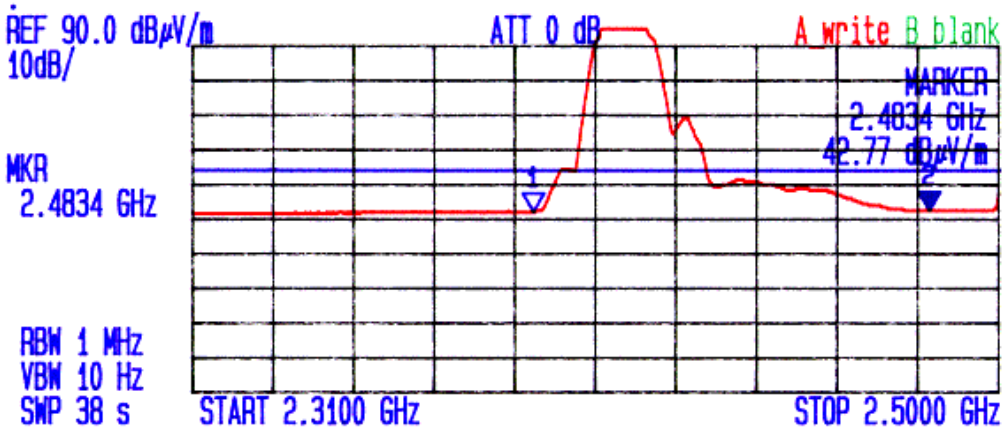


*** Multi Marker List ***

No.1:	2.3901 GHz	42.45 dBµV/m	A
No.2:	2.4834 GHz	42.72 dBµV/m	A

Figure 6.4.2-14: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: V
DETECT: AVERAGE	LINE UNDER TEST: 2.412G (5.5Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

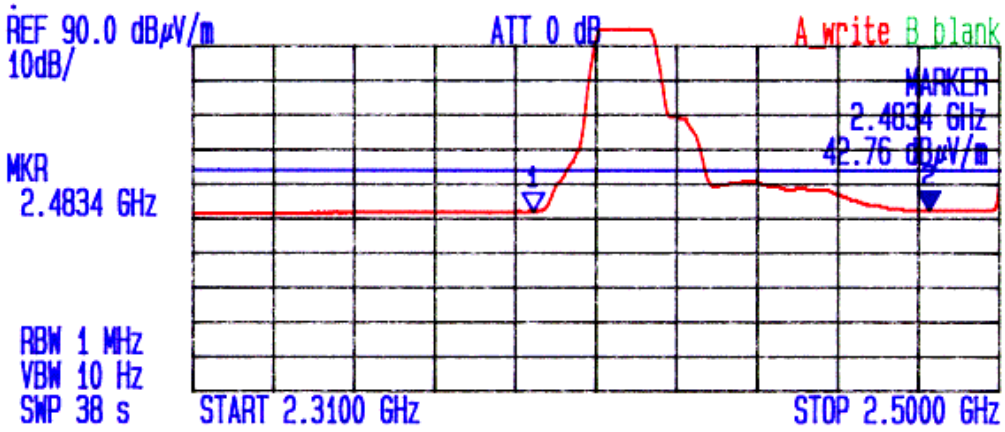


*** Multi Marker List ***

No.1:	2.3901 GHz	42.44 dBµV/m	A
No.2:	2.4834 GHz	42.77 dBµV/m	A

Figure 6.4.2-15: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: V
DETECT: AVERAGE	LINE UNDER TEST: 2.412G (11Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

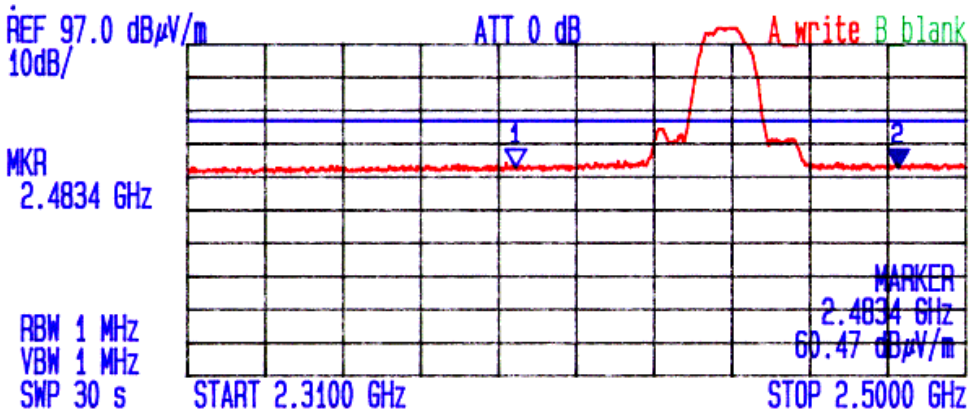


*** Multi Marker List ***

No.1:	2.3901 GHz	42.46 dBµV/m	A
No.2:	2.4834 GHz	42.76 dBµV/m	A

Figure 6.4.2-16: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	H
DETECT: PEAK	LINE UNDER TEST: 2.442G (11Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	

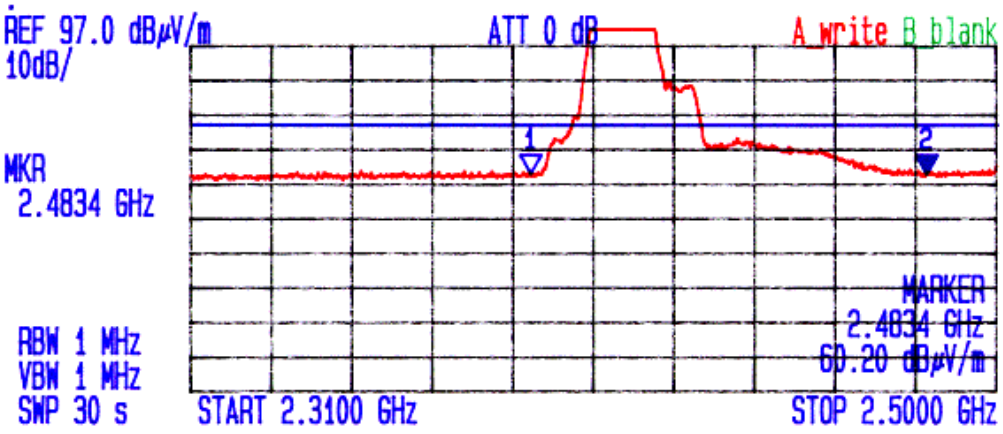


*** Multi Marker List ***

No.1:	2.3901 GHz	60.01 dBµV/m	A
No.2:	2.4834 GHz	60.47 dBµV/m	A

Figure 6.4.2-17: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	V
DETECT: PEAK	LINE UNDER TEST: 2.412G (11Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	

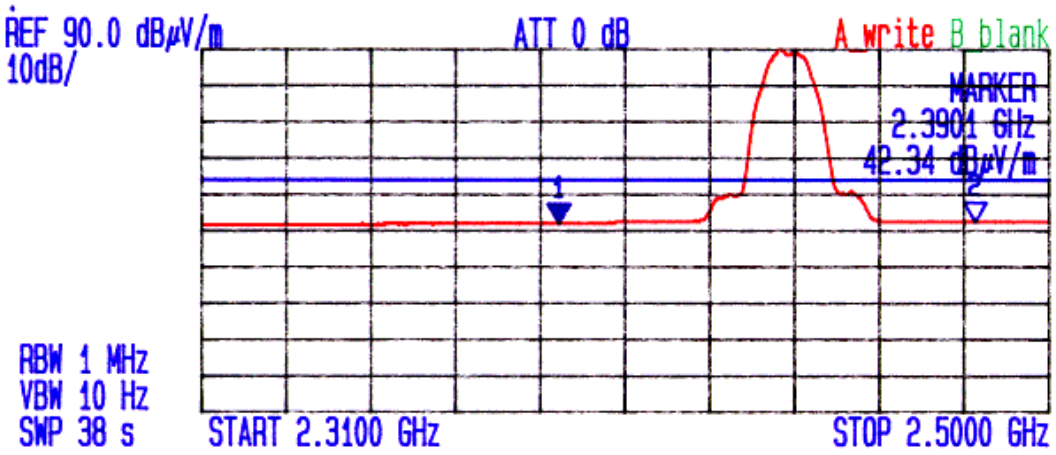


*** Multi Marker List ***

No.1:	2.3901 GHz	60.16 dBµV/m	A
No.2:	2.4834 GHz	60.20 dBµV/m	A

Figure 6.4.2-18: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: H
DETECT: AVERAGE	LINE UNDER TEST: 2.442G (11Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

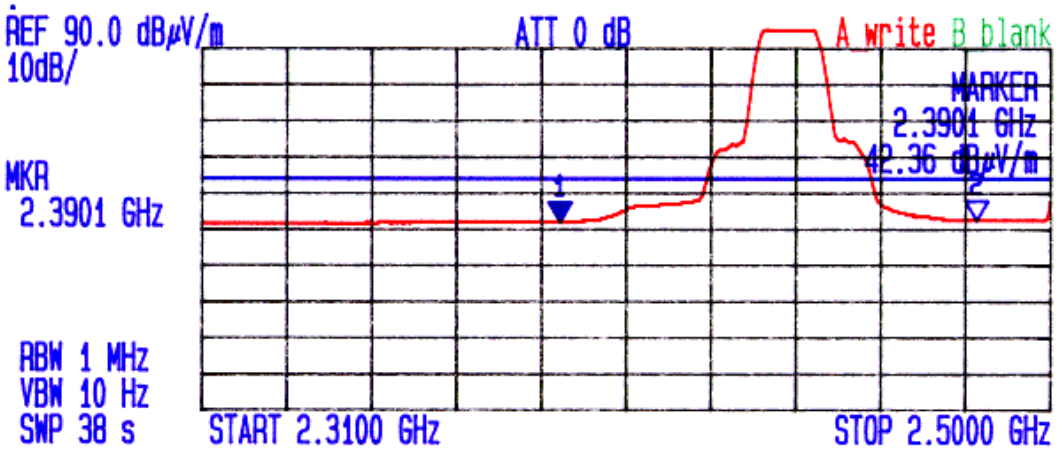


*** Multi Marker List ***

No.1:	2.3901 GHz	42.34 dBµV/m	A
No.2:	2.4834 GHz	42.66 dBµV/m	A

Figure 6.4.2-19: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: V
DETECT: AVERAGE	LINE UNDER TEST: 2.442G (11Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

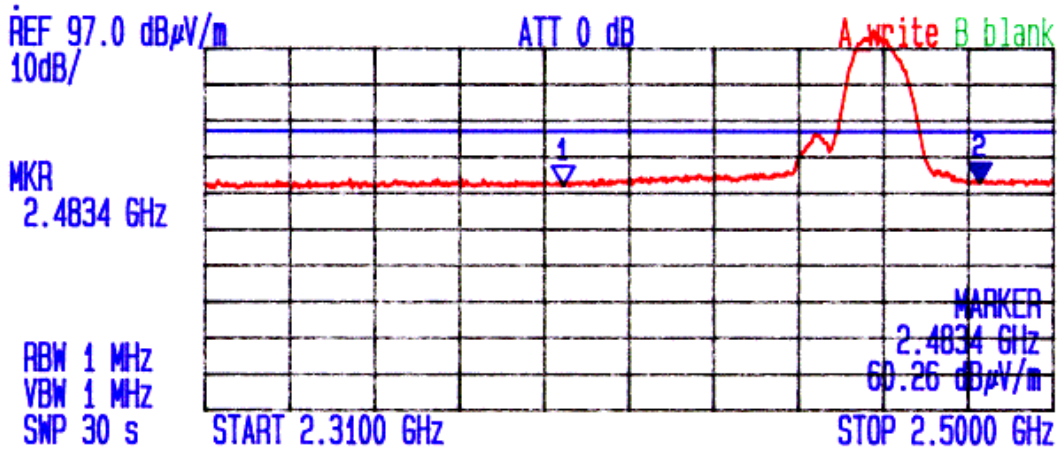


*** Multi Marker List ***

No.1:	2.3901 GHz	42.36 dBµV/m	A
No.2:	2.4834 GHz	42.68 dBµV/m	A

Figure 6.4.2-20: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	H
DETECT: PEAK	LINE UNDER TEST: 2.462G (1Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	

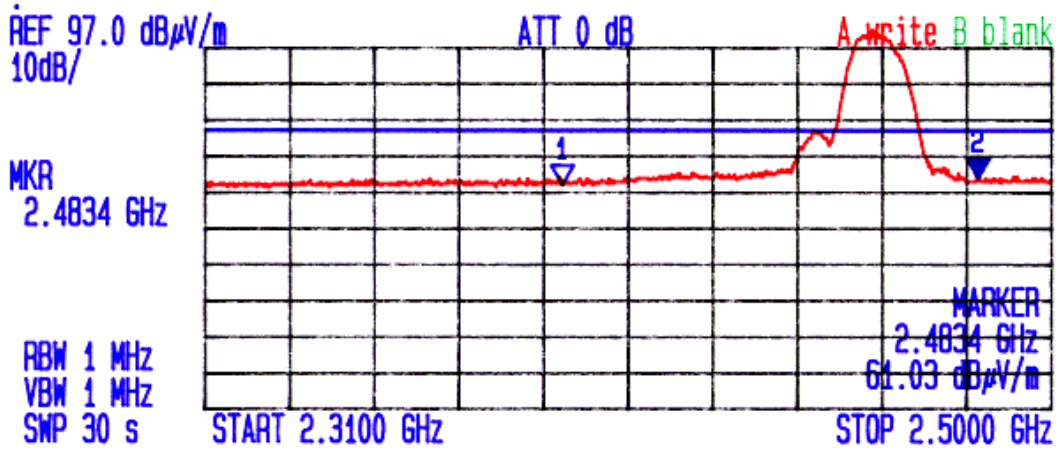


*** Multi Marker List ***

No.1:	2.3901 GHz	59.49 dBµV/m	A
No.2:	2.4834 GHz	60.26 dBµV/m	A

Figure 6.4.2-21: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	H
DETECT: PEAK	LINE UNDER TEST: 2.462G (2Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	



*** Multi Marker List ***

No.1:	2.3901 GHz	59.45 dBµV/m	A
No.2:	2.4834 GHz	61.03 dBµV/m	A

Figure 6.4.2-22: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	H
DETECT: PEAK	LINE UNDER TEST: 2.462G (5.5Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER: AB	

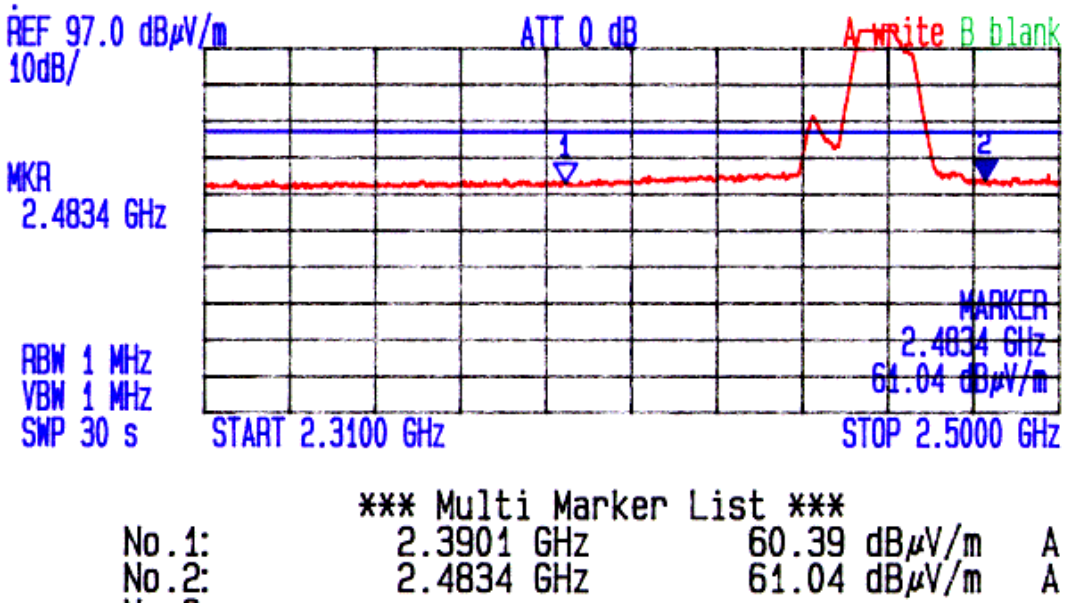


Figure 6.4.2-23: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	H
DETECT: PEAK	LINE UNDER TEST: 2.462G (11Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER: AB	

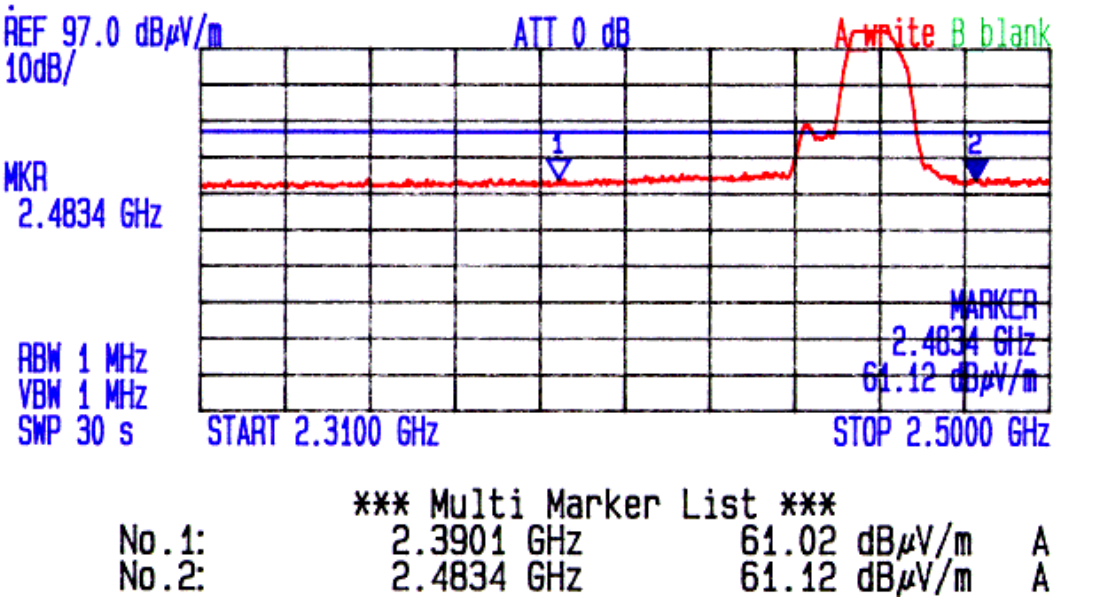
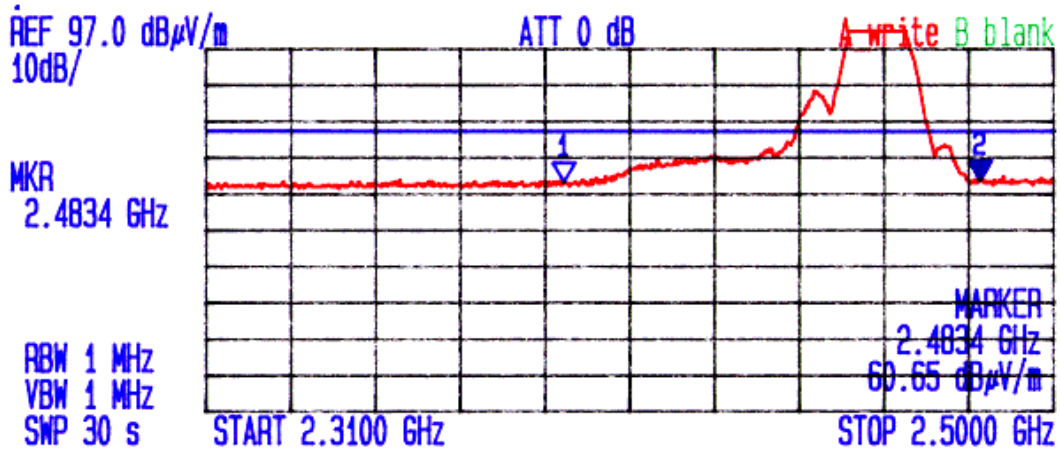


Figure 6.4.2-24: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	V
DETECT: PEAK	LINE UNDER TEST: 2.462G (1Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	

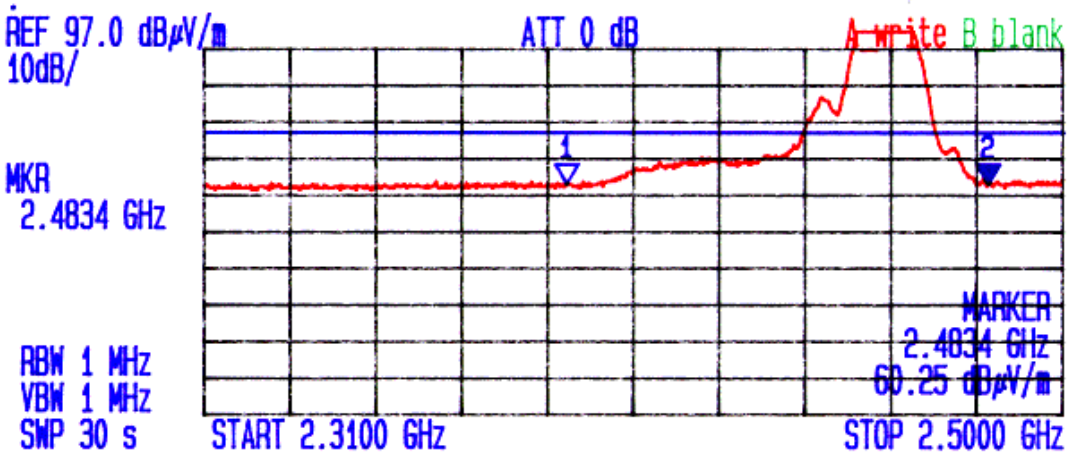


*** Multi Marker List ***

No.1:	2.3901 GHz	60.35 dBµV/m	A
No.2:	2.4834 GHz	60.65 dBµV/m	A

Figure 6.4.2-25: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	V
DETECT: PEAK	LINE UNDER TEST: 2.462G (2Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	



*** Multi Marker List ***

No.1:	2.3901 GHz	60.34 dBµV/m	A
No.2:	2.4834 GHz	60.25 dBµV/m	A

Figure 6.4.2-26: Data Sheet

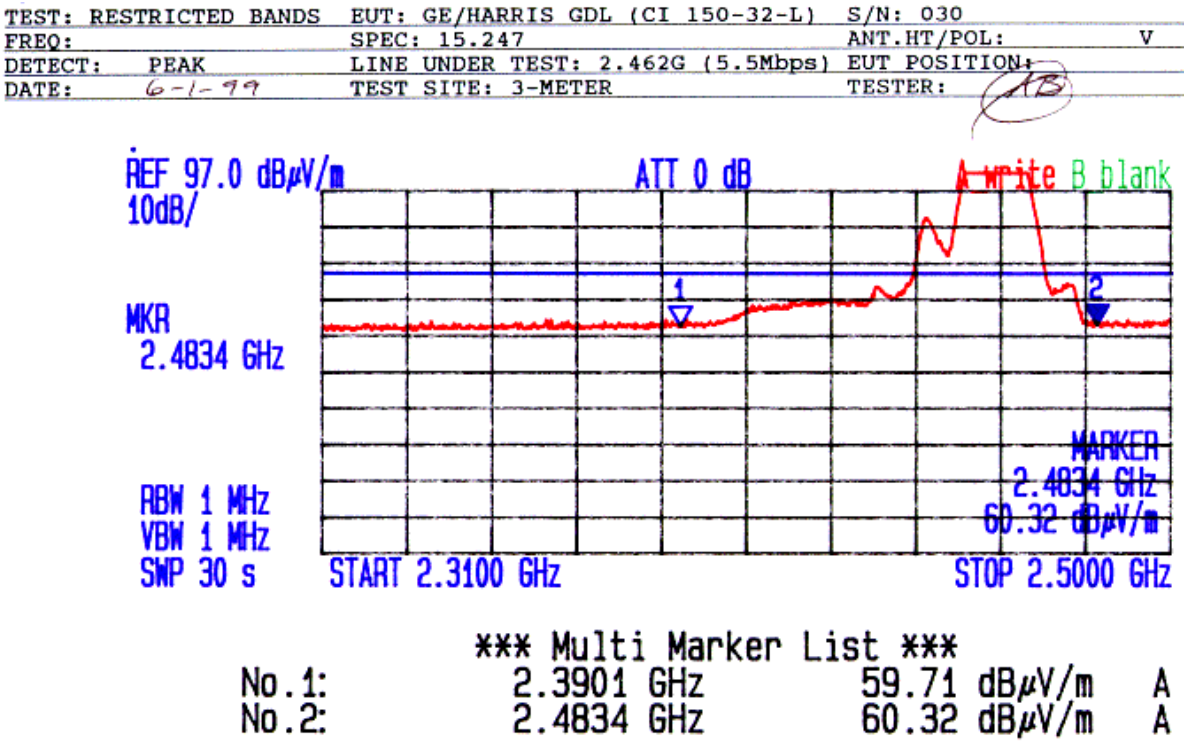


Figure 6.4.2-27: Data Sheet

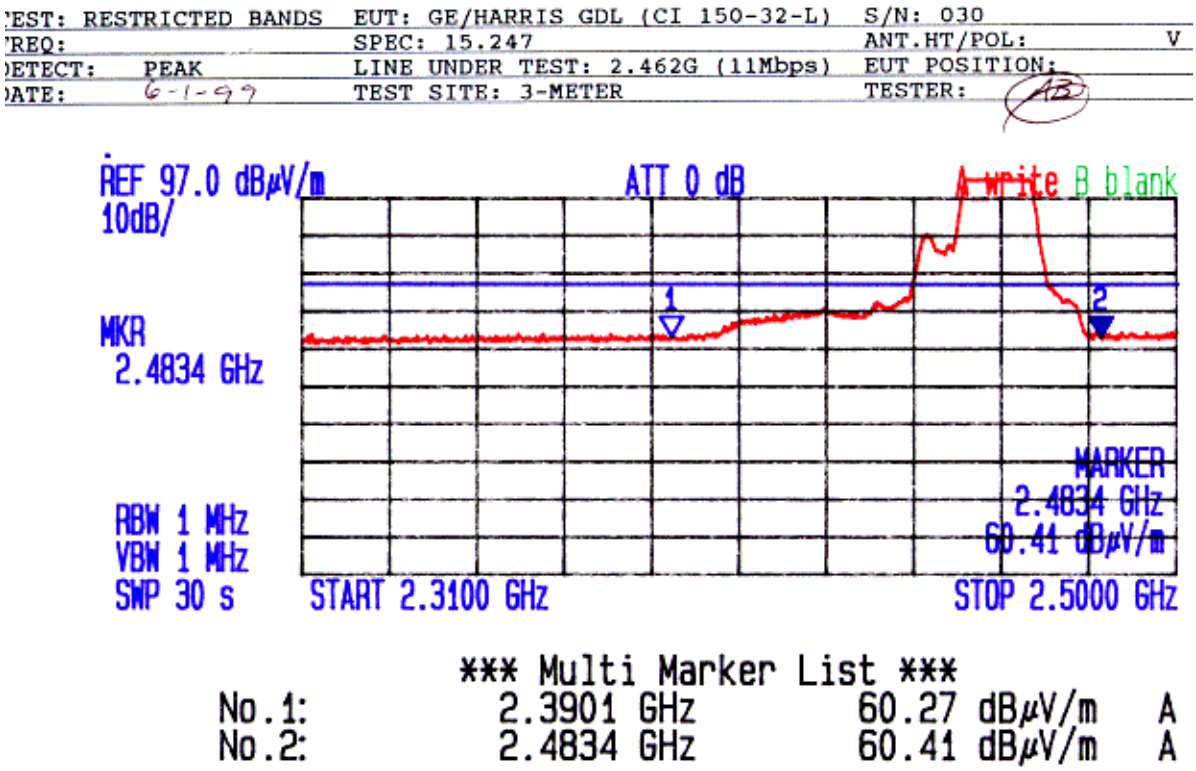
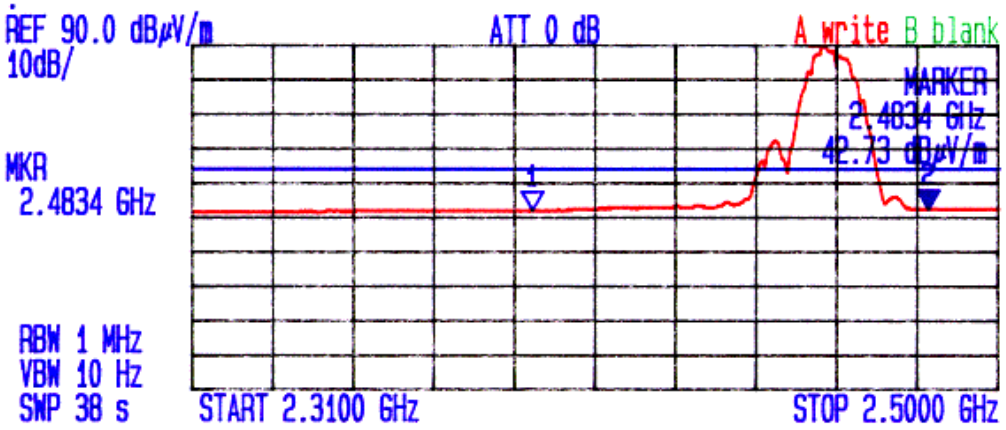


Figure 6.4.2-28: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: H
DETECT: AVERAGE	LINE UNDER TEST: 2.462G (1Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

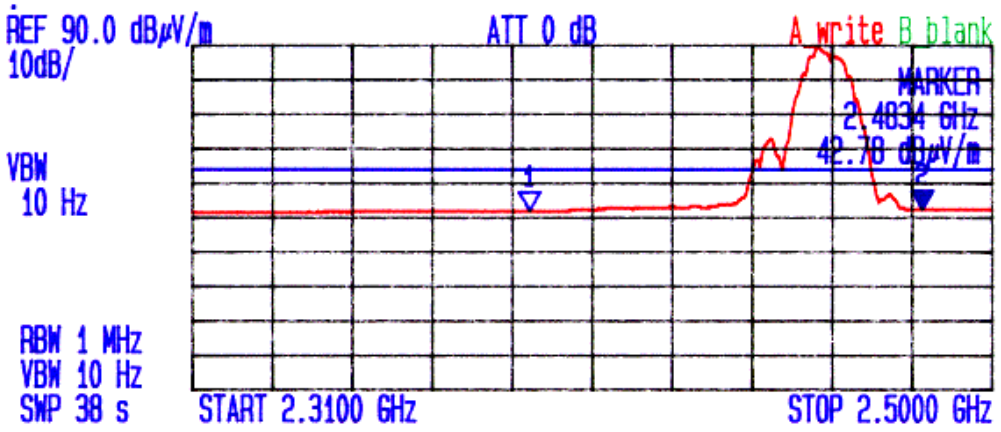


*** Multi Marker List ***

No.1:	2.3901 GHz	42.41 dBµV/m	A
No.2:	2.4834 GHz	42.73 dBµV/m	A

Figure 6.4.2-29: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: H
DETECT: AVERAGE	LINE UNDER TEST: 2.462G (2Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

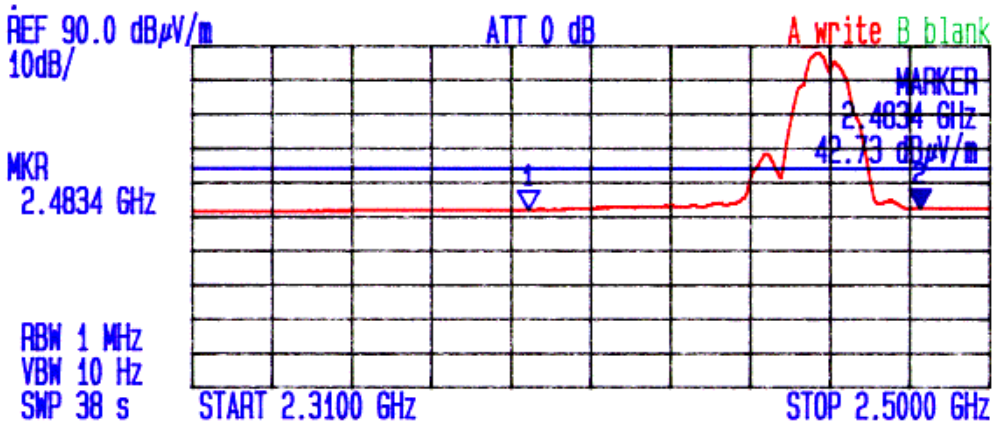


*** Multi Marker List ***

No.1:	2.3901 GHz	42.45 dBµV/m	A
No.2:	2.4834 GHz	42.78 dBµV/m	A

Figure 6.4.2-30: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	H
DETECT: AVERAGE	LINE UNDER TEST: 2.462G (5.5Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	

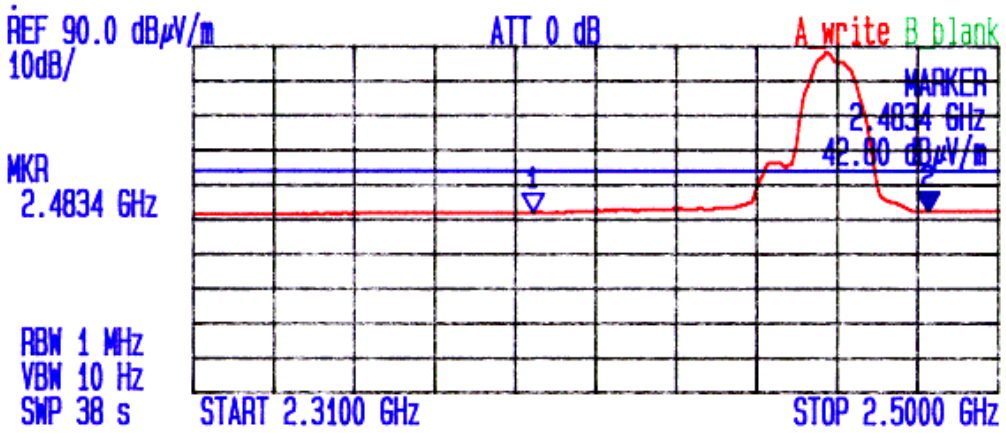


*** Multi Marker List ***

No.1:	2.3901 GHz	42.37 dBµV/m	A
No.2:	2.4834 GHz	42.73 dBµV/m	A

Figure 6.4.2-31: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030	
FREQ:	SPEC: 15.247	ANT.HT/POL:	H
DETECT: AVERAGE	LINE UNDER TEST: 2.462G (11Mbps)	EUT POSITION:	
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:	

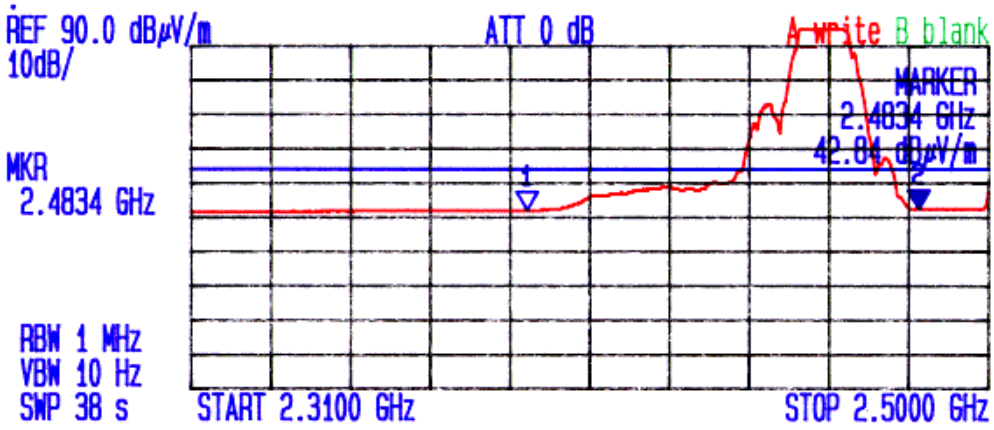


*** Multi Marker List ***

No.1:	2.3901 GHz	42.38 dBµV/m	A
No.2:	2.4834 GHz	42.80 dBµV/m	A

Figure 6.4.2-32: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: V
DETECT: AVERAGE	LINE UNDER TEST: 2.462G (1Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

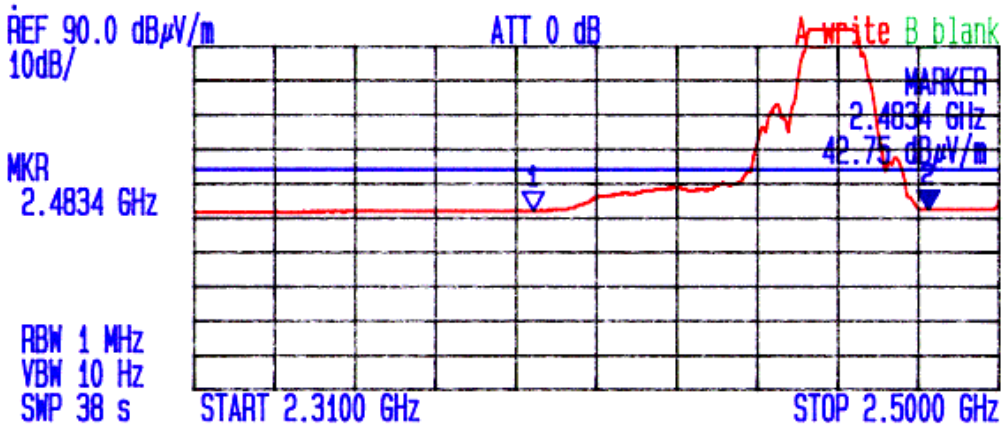


*** Multi Marker List ***

No.1:	2.3901 GHz	42.41 dBµV/m	A
No.2:	2.4834 GHz	42.84 dBµV/m	A

Figure 6.4.2-33: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: V
DETECT: AVERAGE	LINE UNDER TEST: 2.462G (2Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

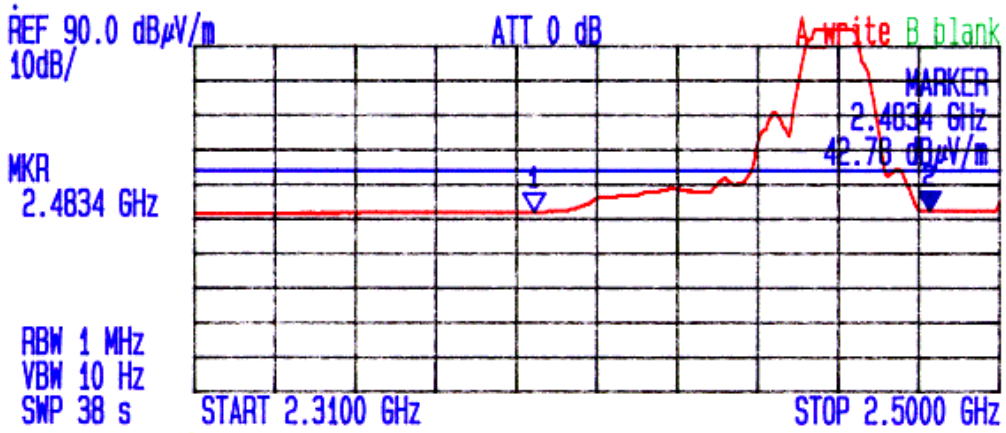


*** Multi Marker List ***

No.1:	2.3901 GHz	42.37 dBµV/m	A
No.2:	2.4834 GHz	42.75 dBµV/m	A

Figure 6.4.2-34: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: V
DETECT: AVERAGE	LINE UNDER TEST: 2.462G (5.5Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:

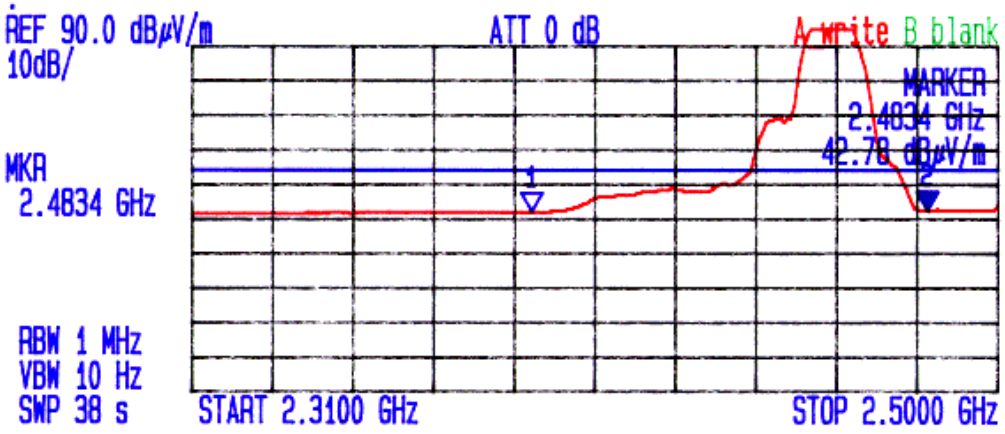


*** Multi Marker List ***

No.1:	2.3901 GHz	42.39 dBµV/m	A
No.2:	2.4834 GHz	42.78 dBµV/m	A

Figure 6.4.2-35: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (CI 150-32-L)	S/N: 030
FREQ:	SPEC: 15.247	ANT.HT/POL: V
DETECT: AVERAGE	LINE UNDER TEST: 2.462G (11Mbps)	EUT POSITION:
DATE: 6-1-99	TEST SITE: 3-METER	TESTER:



*** Multi Marker List ***

No.1:	2.3901 GHz	42.41 dBµV/m	A
No.2:	2.4834 GHz	42.78 dBµV/m	A

Figure 6.4.2-36: Data Sheet

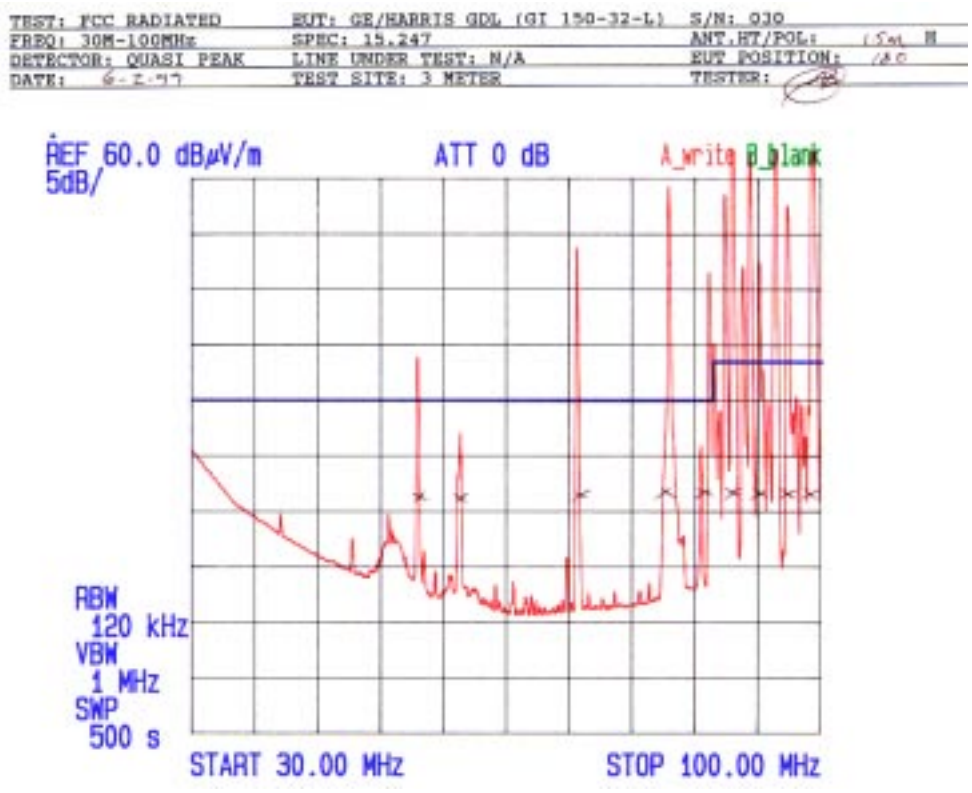


Figure 6.4.2-37: Data Sheet

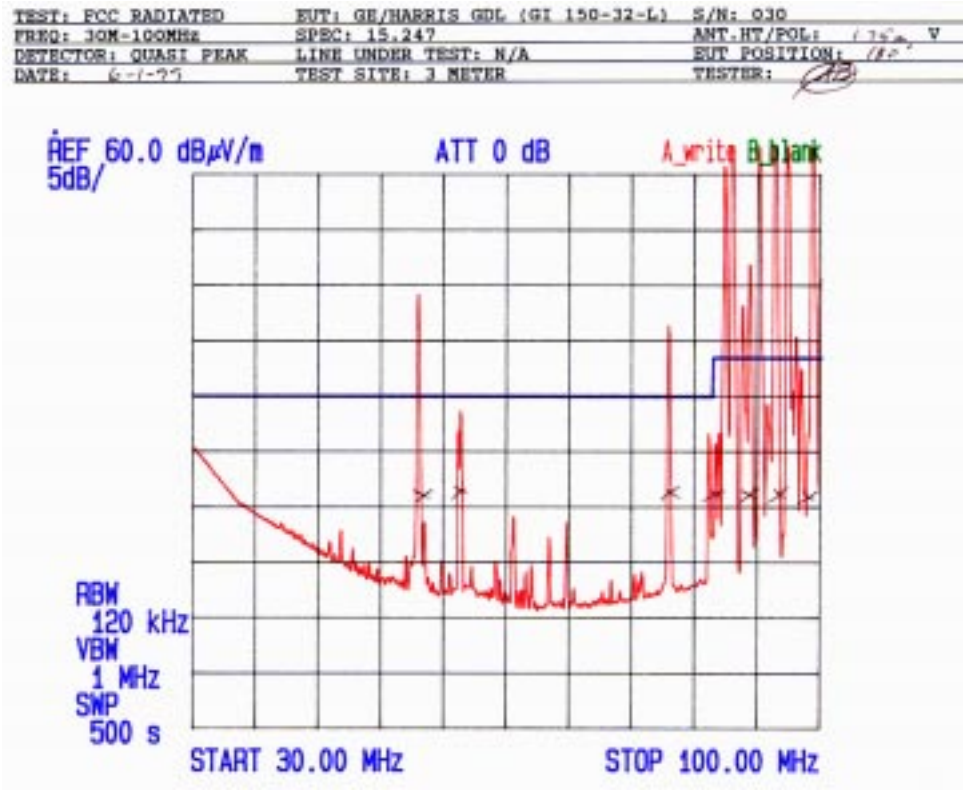


Figure 6.4.2-38: Data Sheet

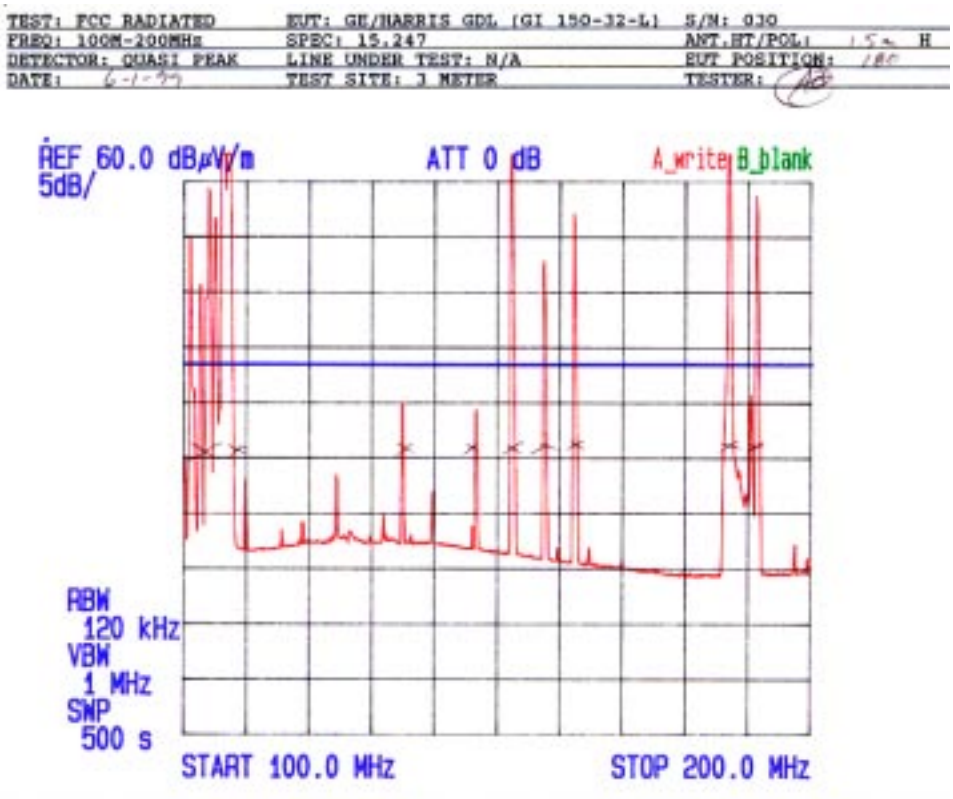


Figure 6.4.2-39: Data Sheet

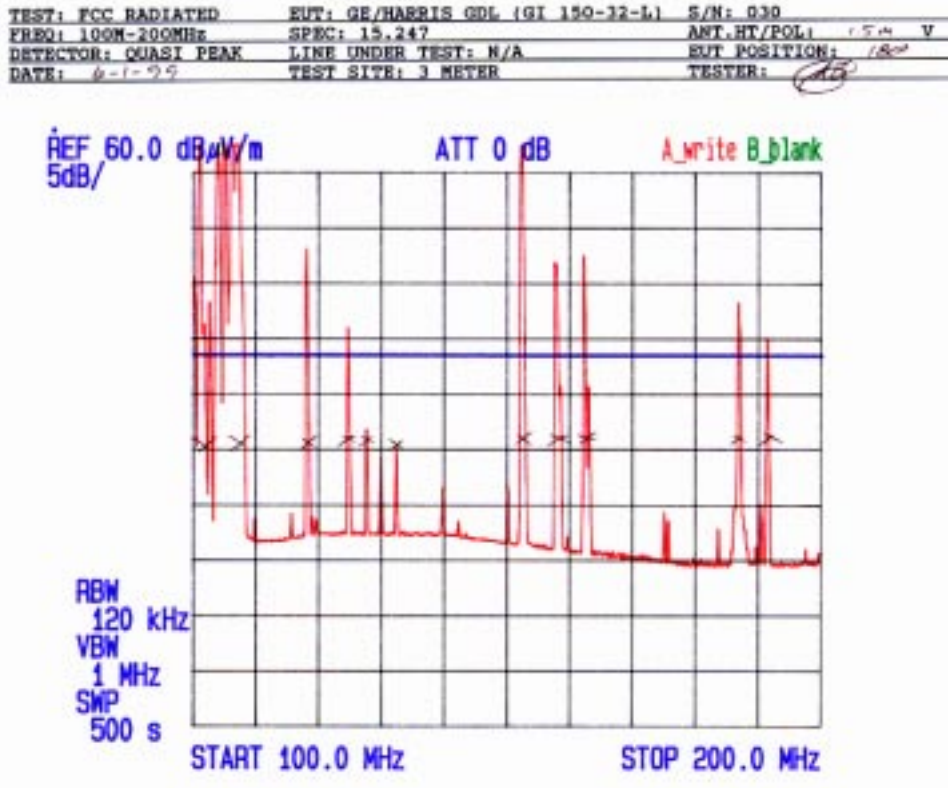


Figure 6.4.2-40: Data Sheet

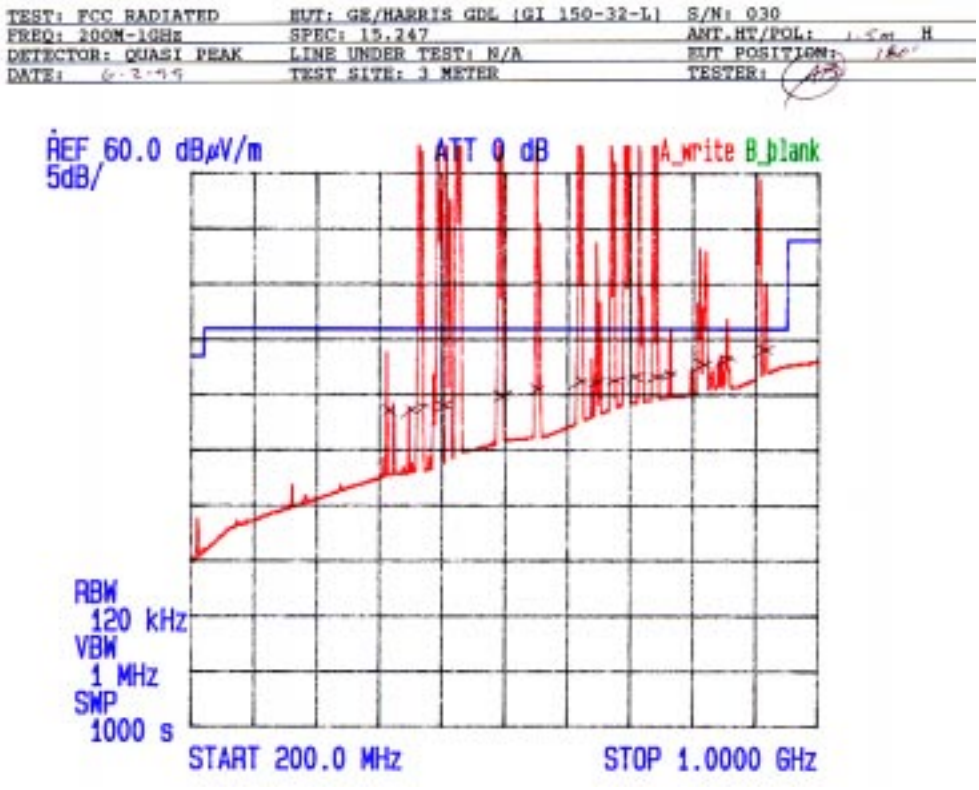


Figure 6.4.2-41: Data Sheet

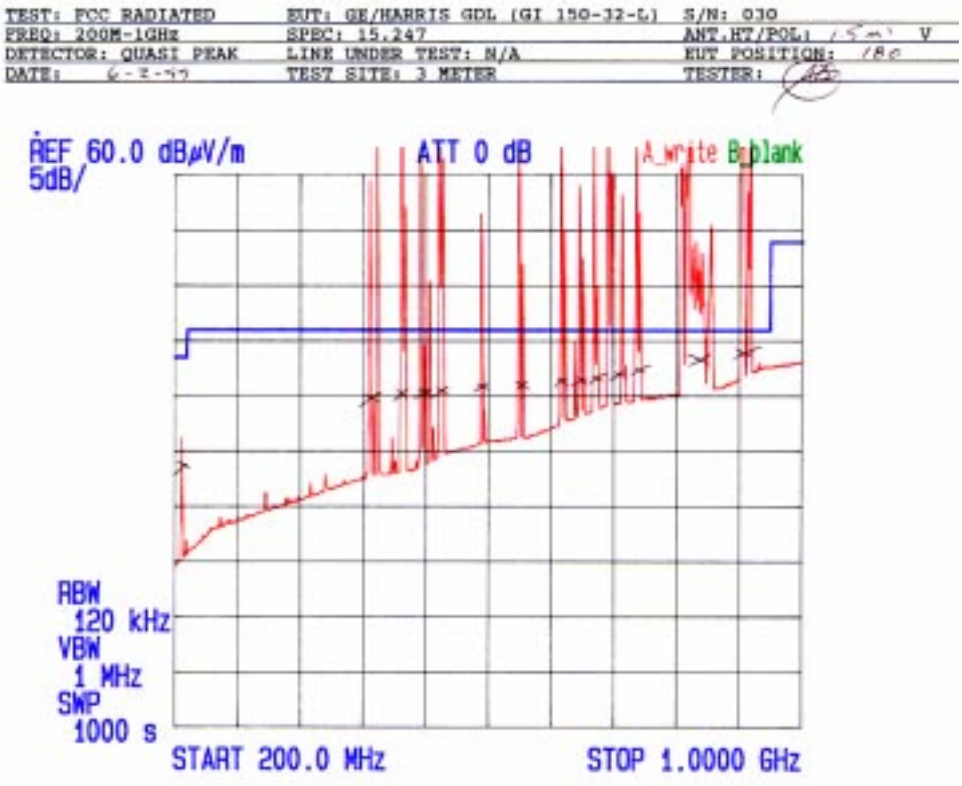


Figure 6.4.2-42: Data Sheet

Figure 6.4.2-43: Data Sheet

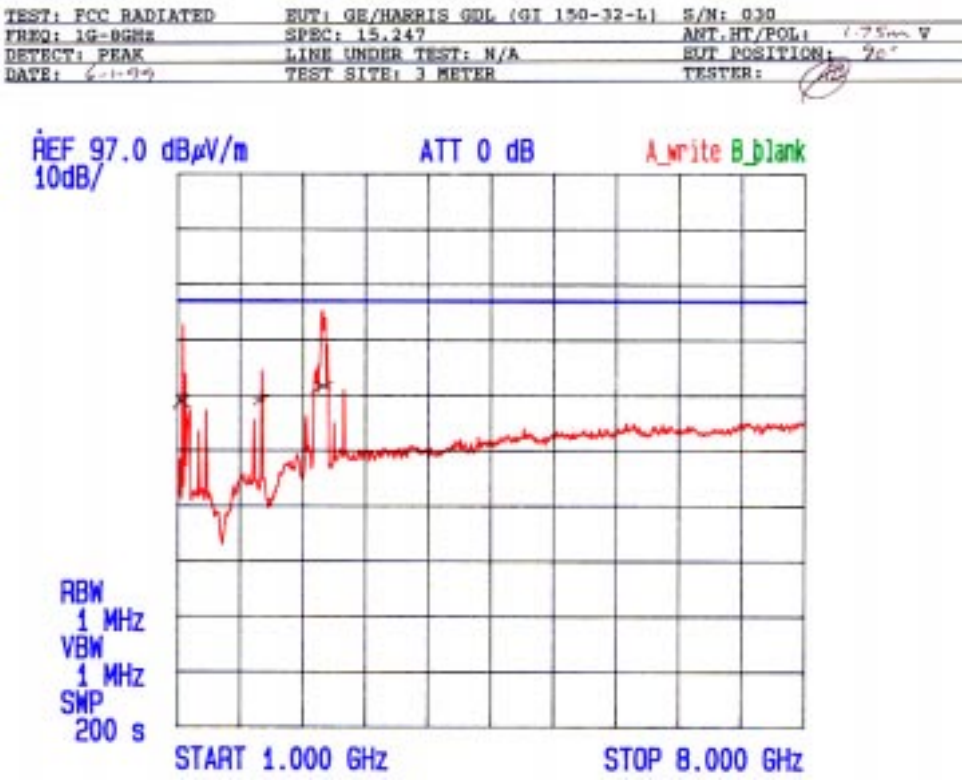


Figure 6.4.2-44: Data Sheet

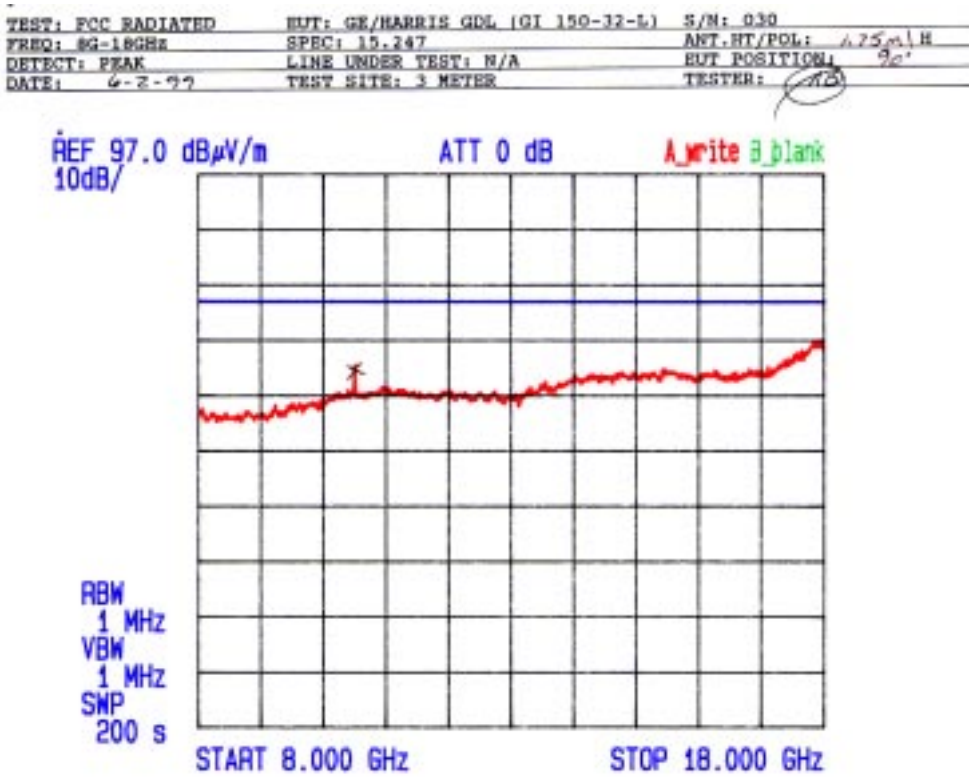


Figure 6.4.2-45: Data Sheet

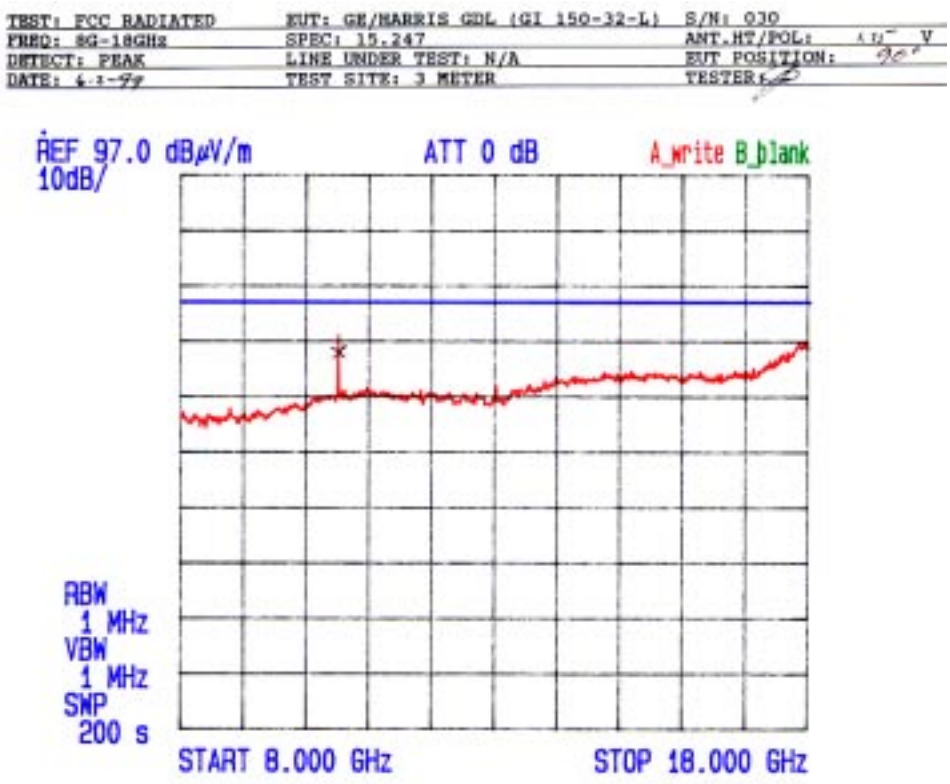


Figure 6.4.2-46: Data Sheet

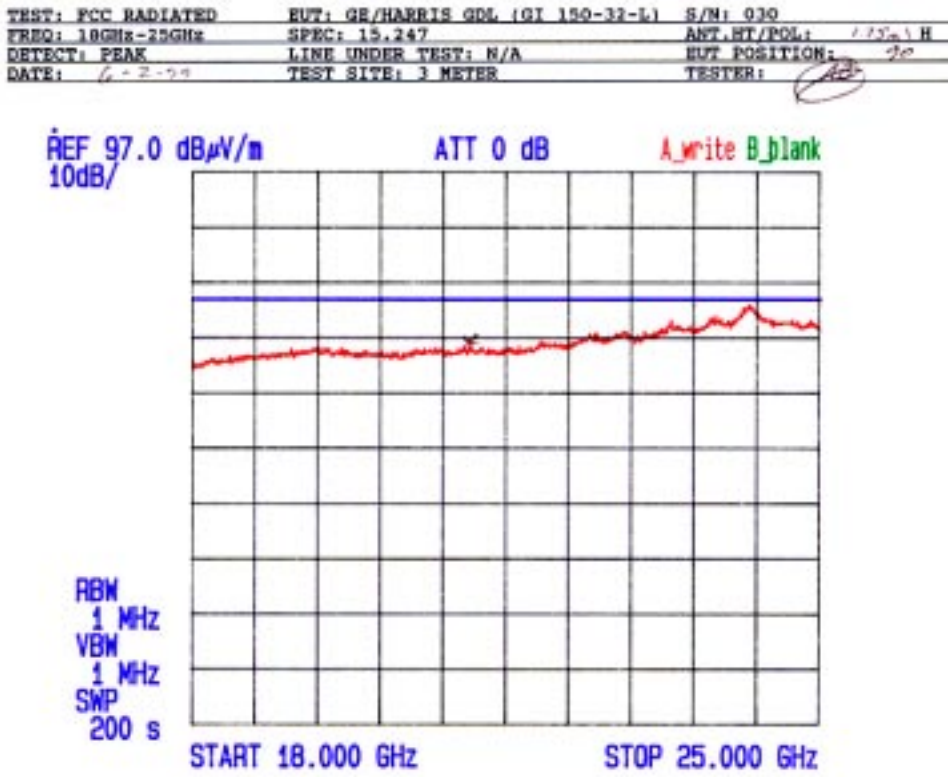


Figure 6.4.2-47: Data Sheet

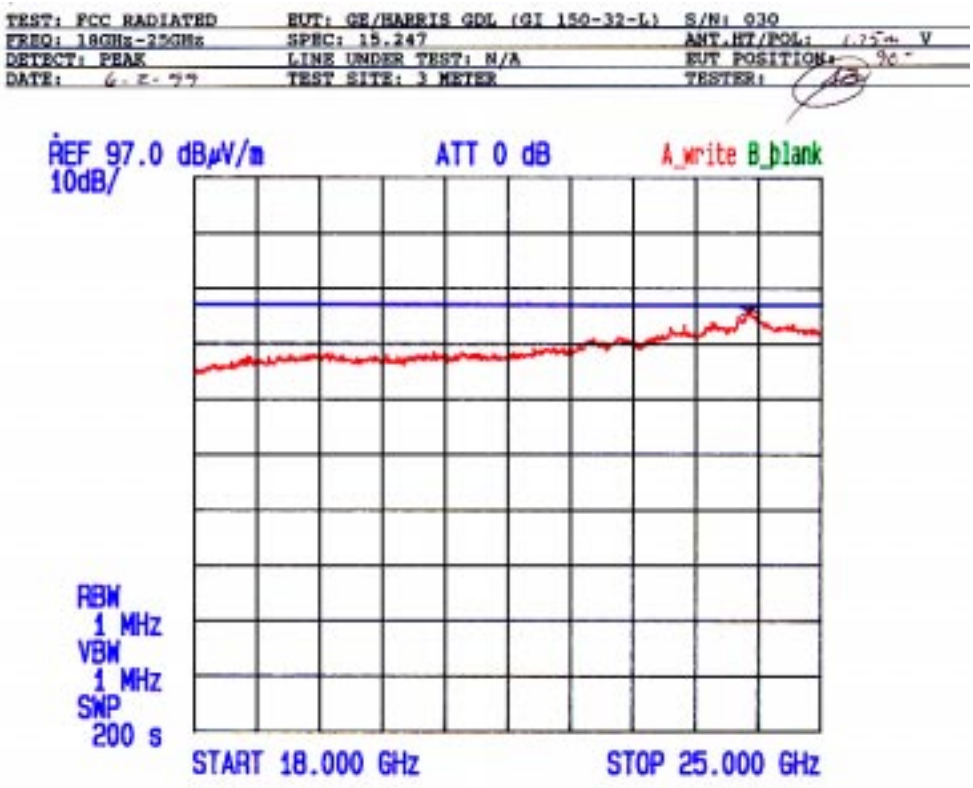


Figure 6.4.2-48: Data Sheet

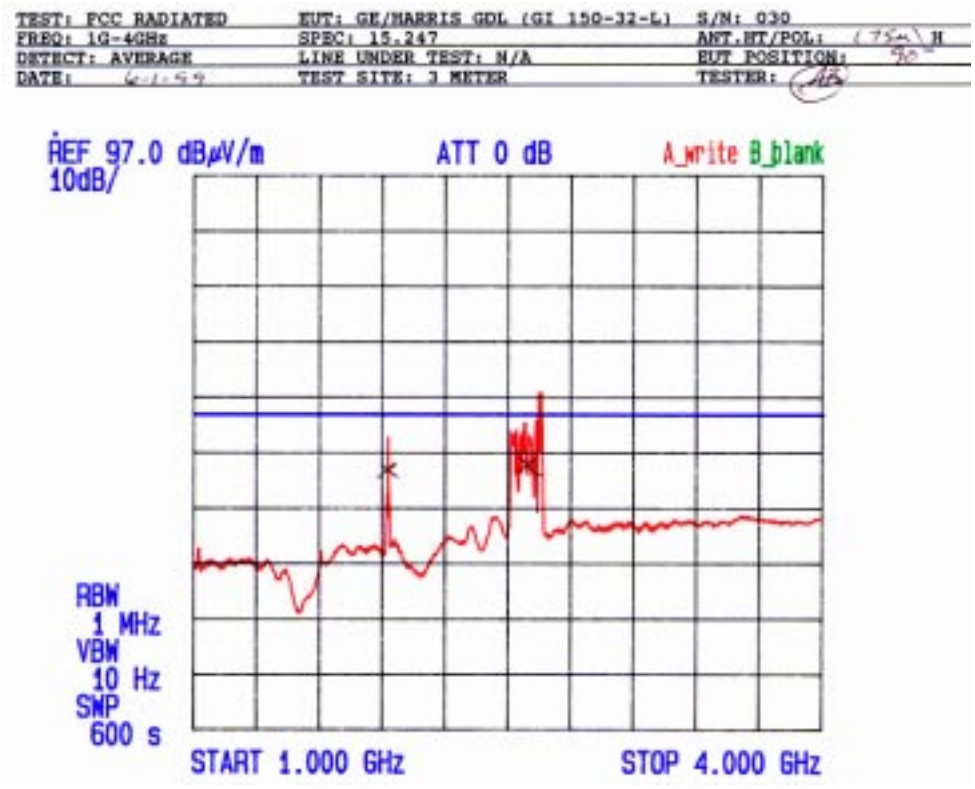


Figure 6.4.2-49: Data Sheet

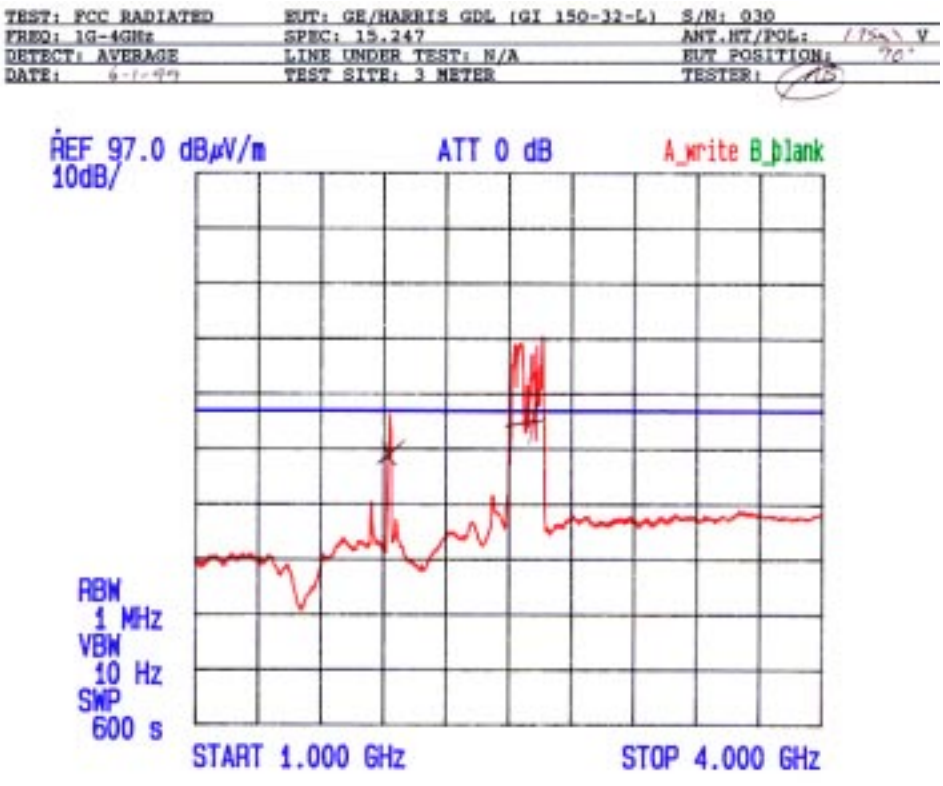


Figure 6.4.2-50: Data Sheet

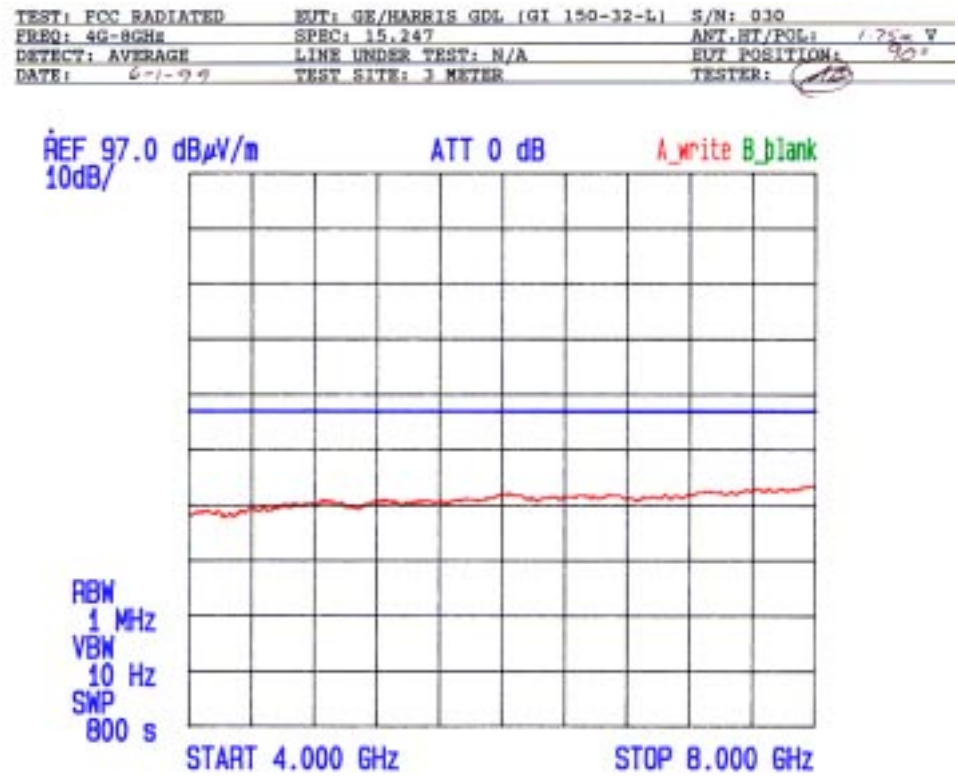


Figure 6.4.2-51: Data Sheet

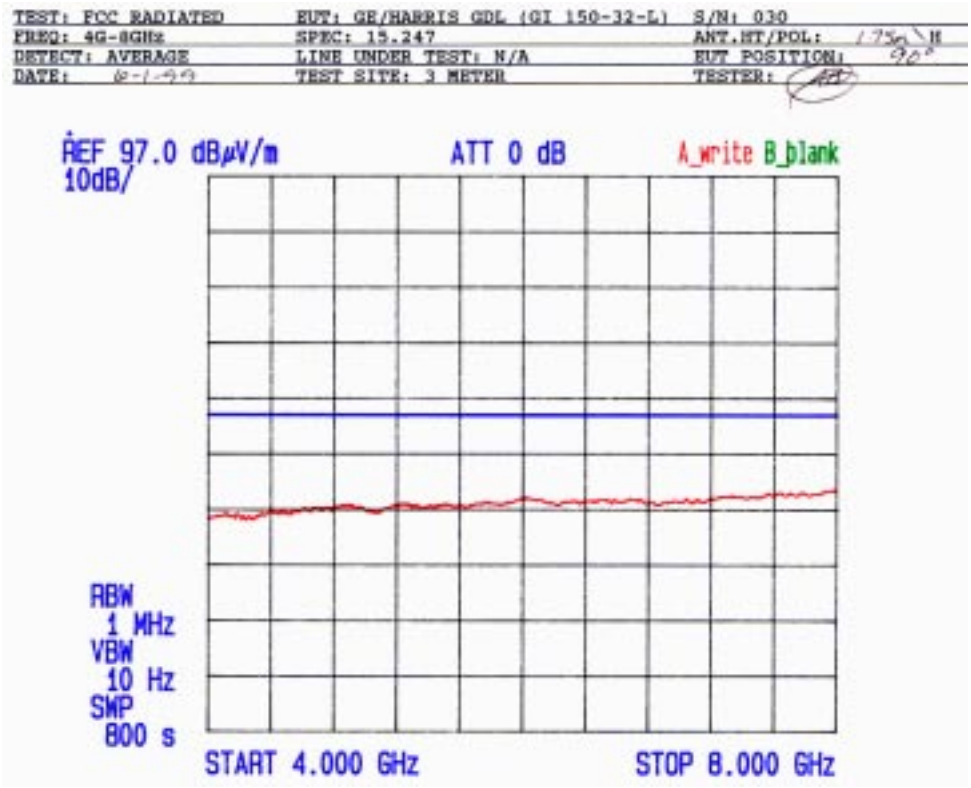


Figure 6.4.2-52: Data Sheet

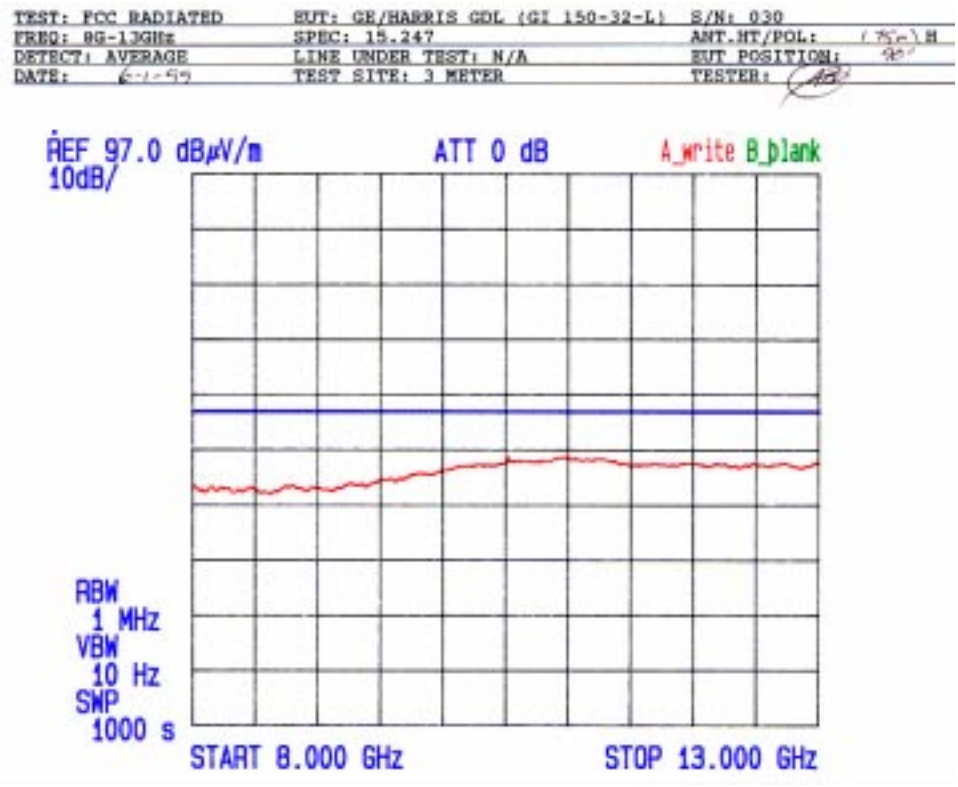


Figure 6.4.2-53: Data Sheet

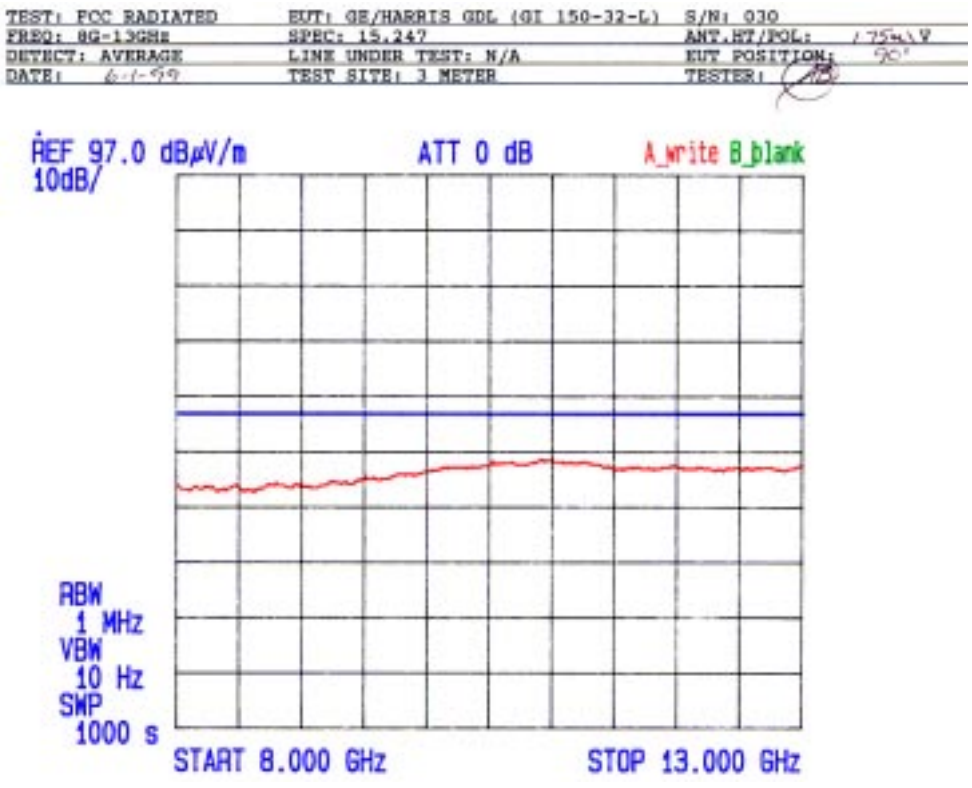


Figure 6.4.2-54: Data Sheet

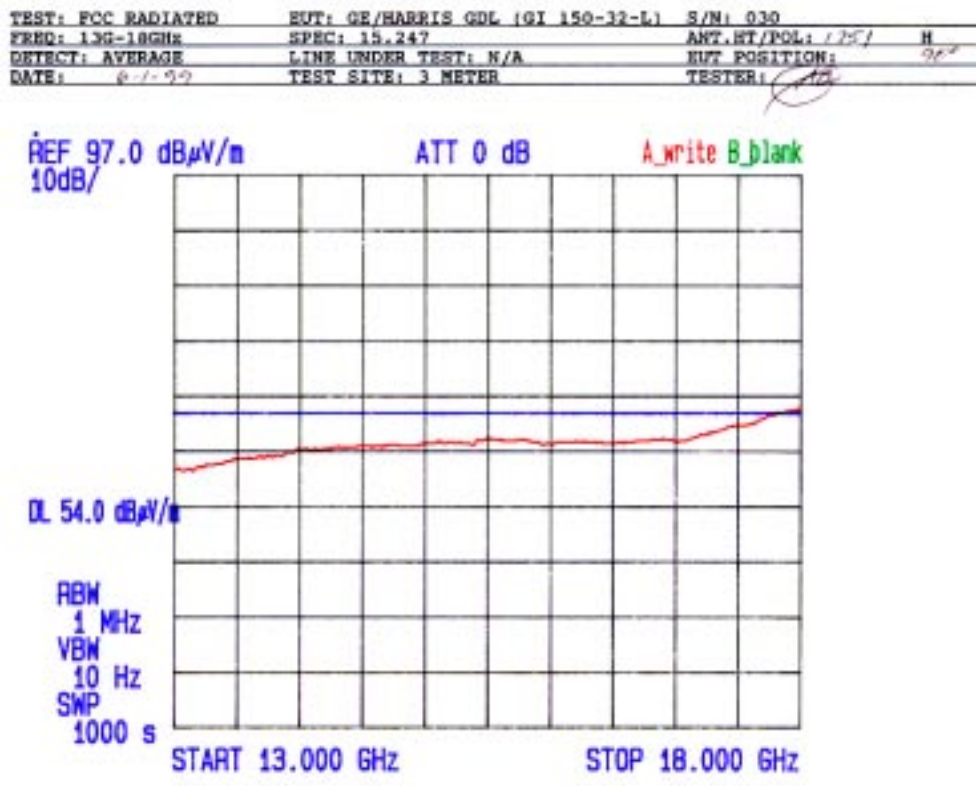


Figure 6.4.2-55: Data Sheet

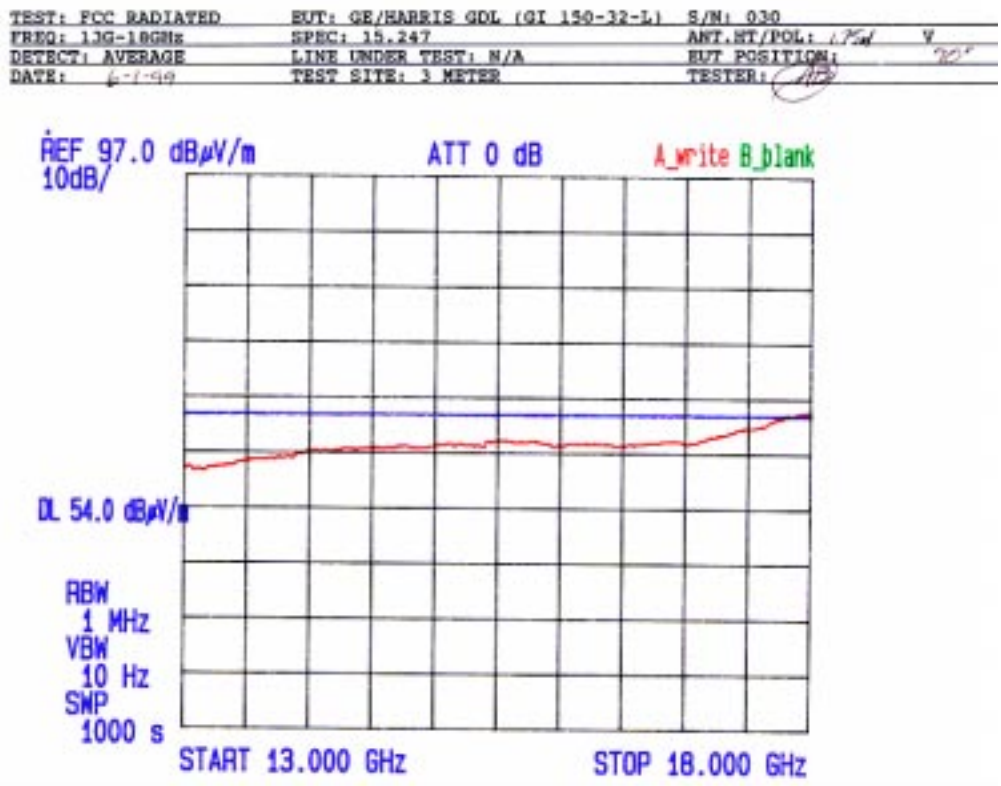


Figure 6.4.2-56: Data Sheet

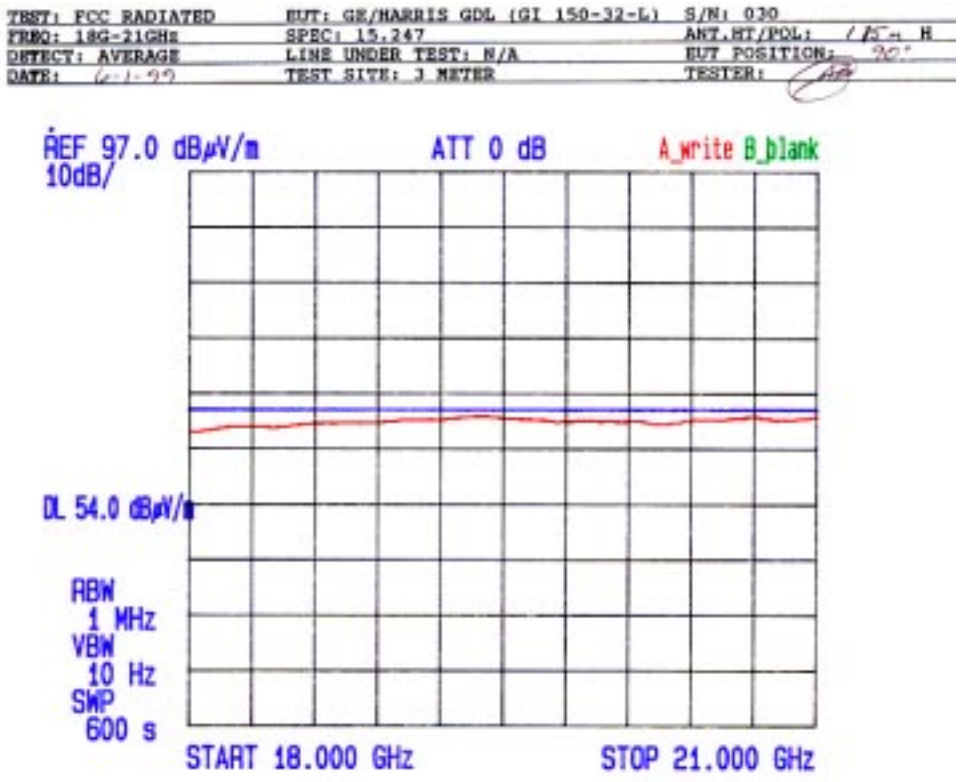


Figure 6.4.2-57: Data Sheet

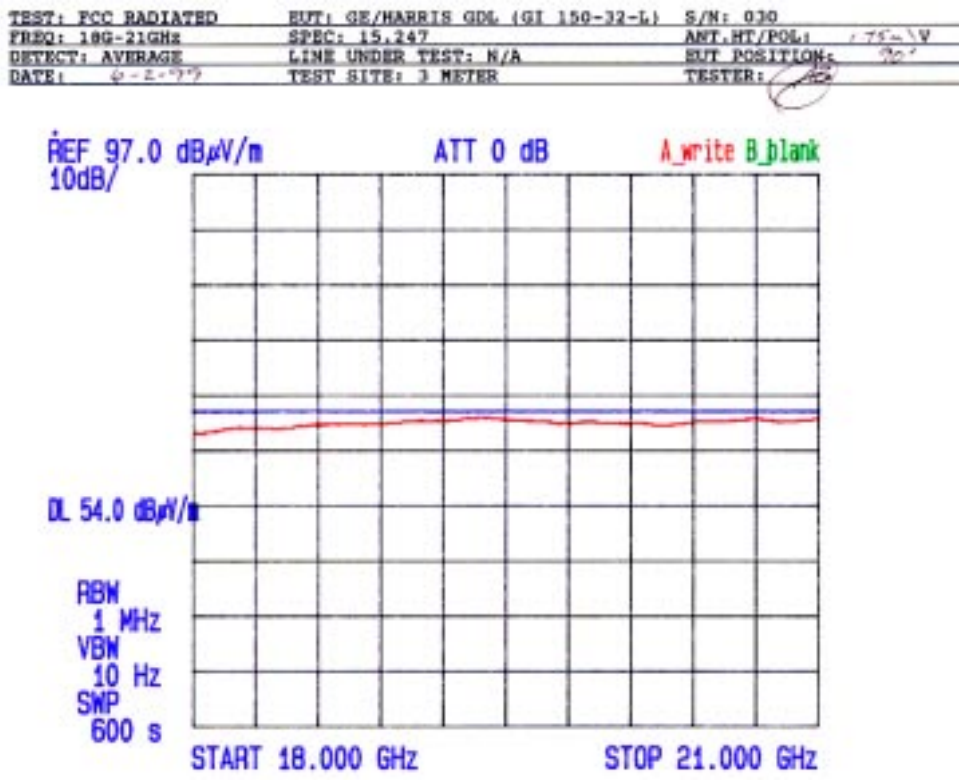


Figure 6.4.2-58: Data Sheet

Figure 6.4.2-59: Data Sheet

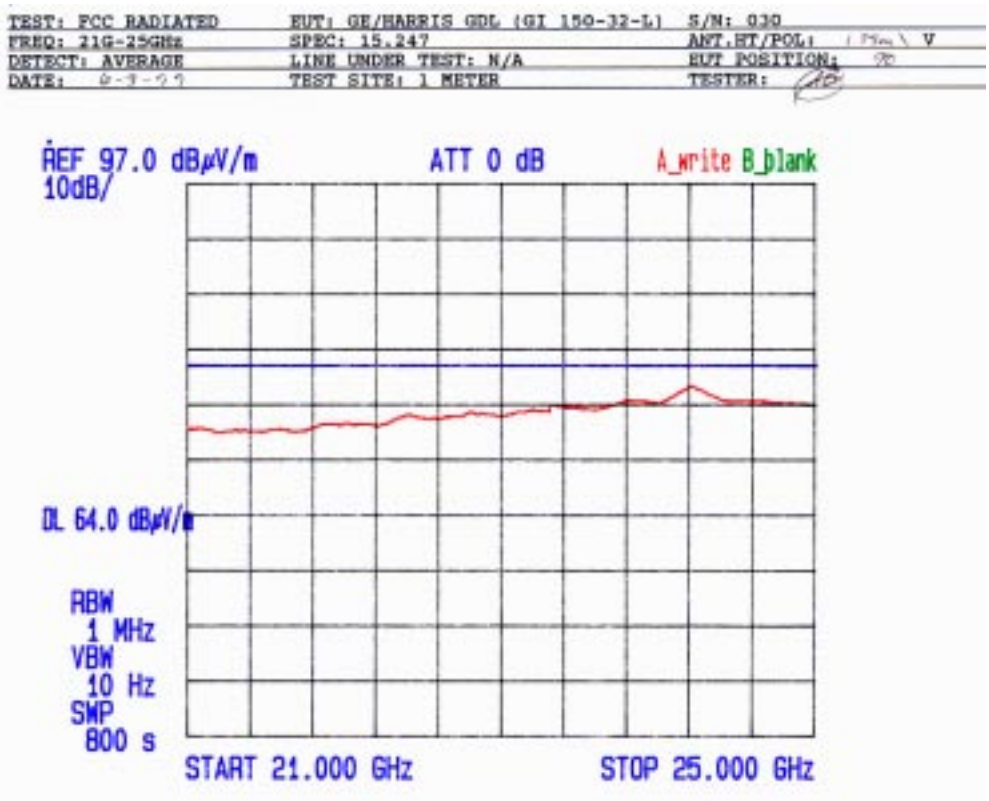


Figure 6.4.2-60: Data Sheet

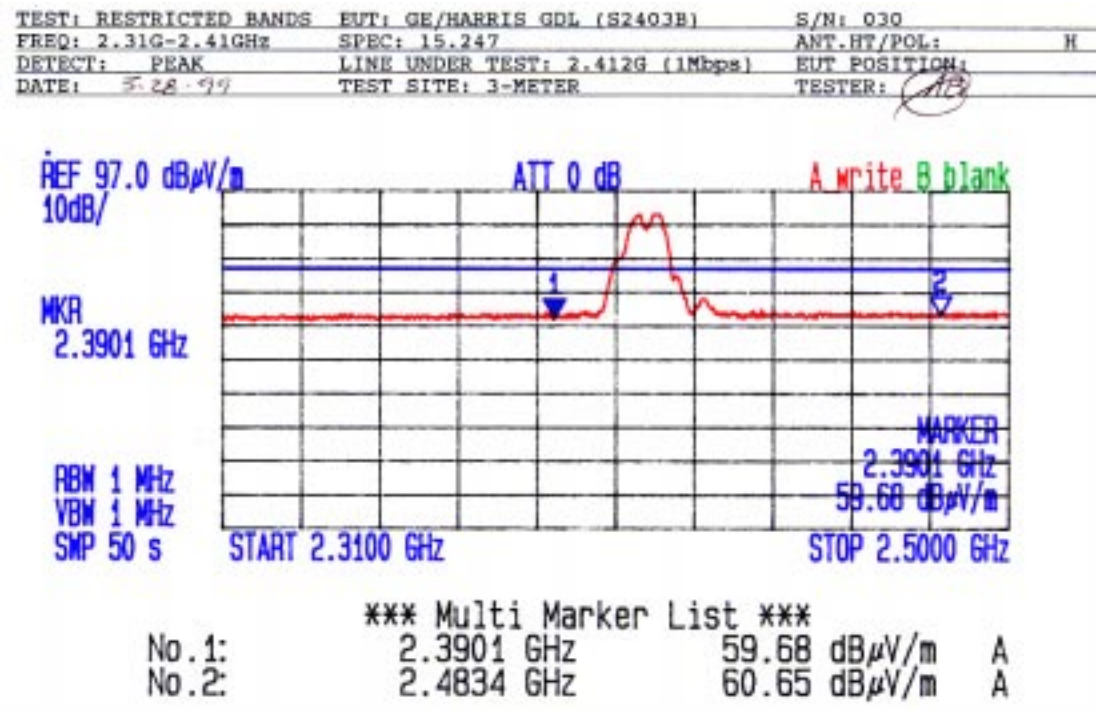


Figure 6.4.3-1: Data Sheet

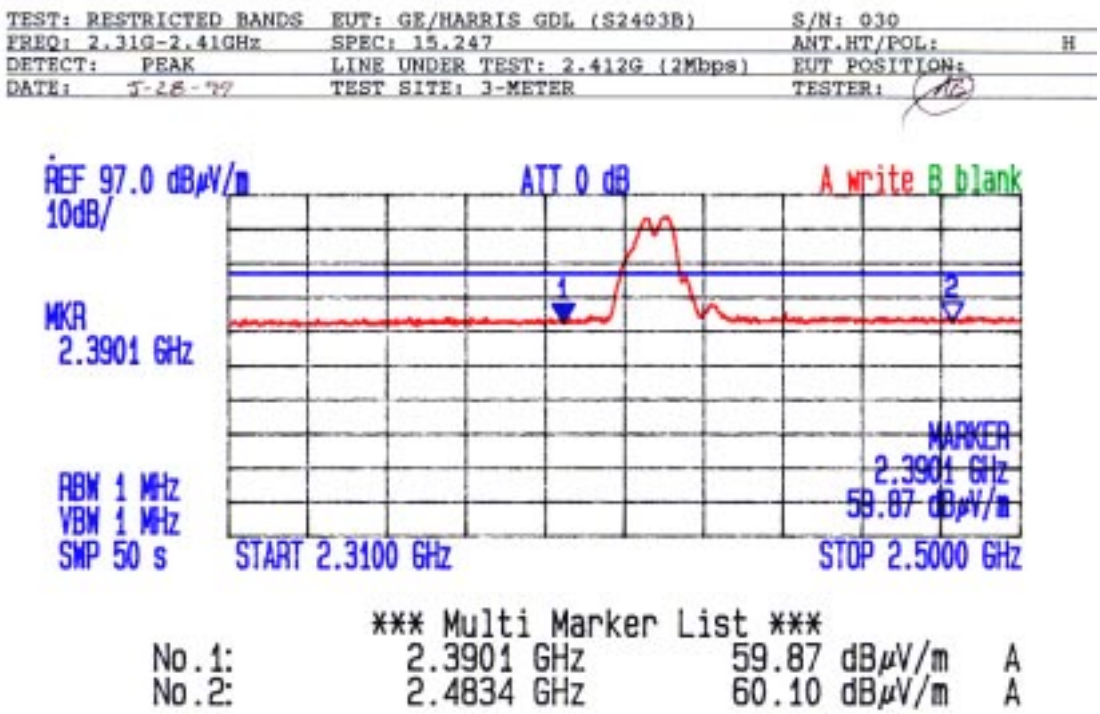


Figure 6.4.3-2: Data Sheet

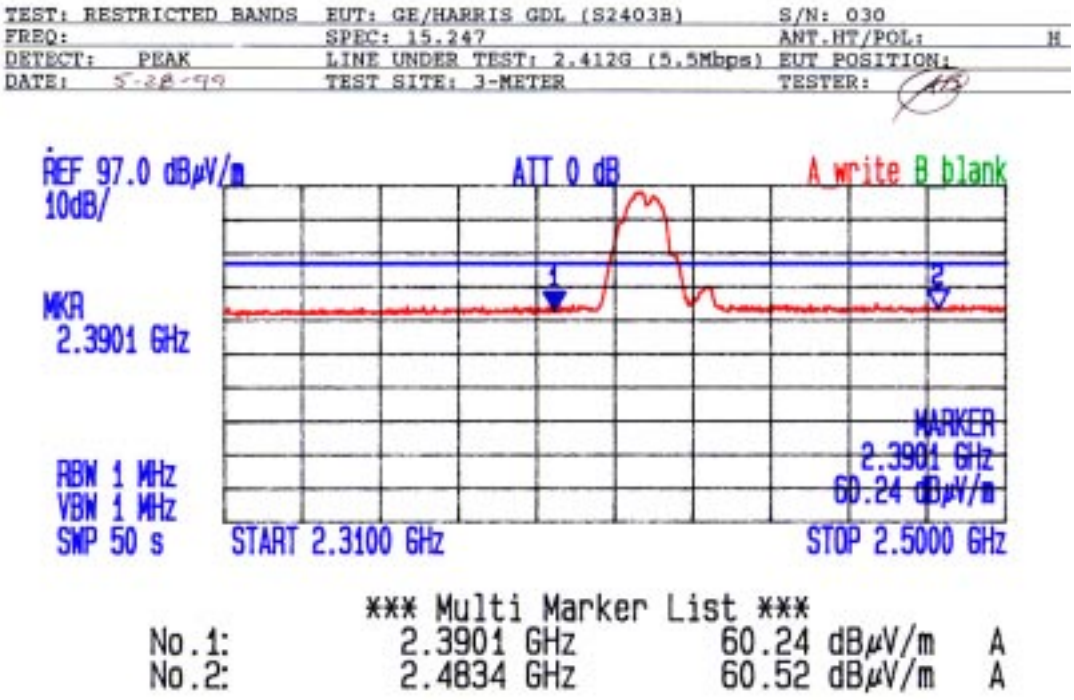


Figure 6.4.3-3: Data Sheet

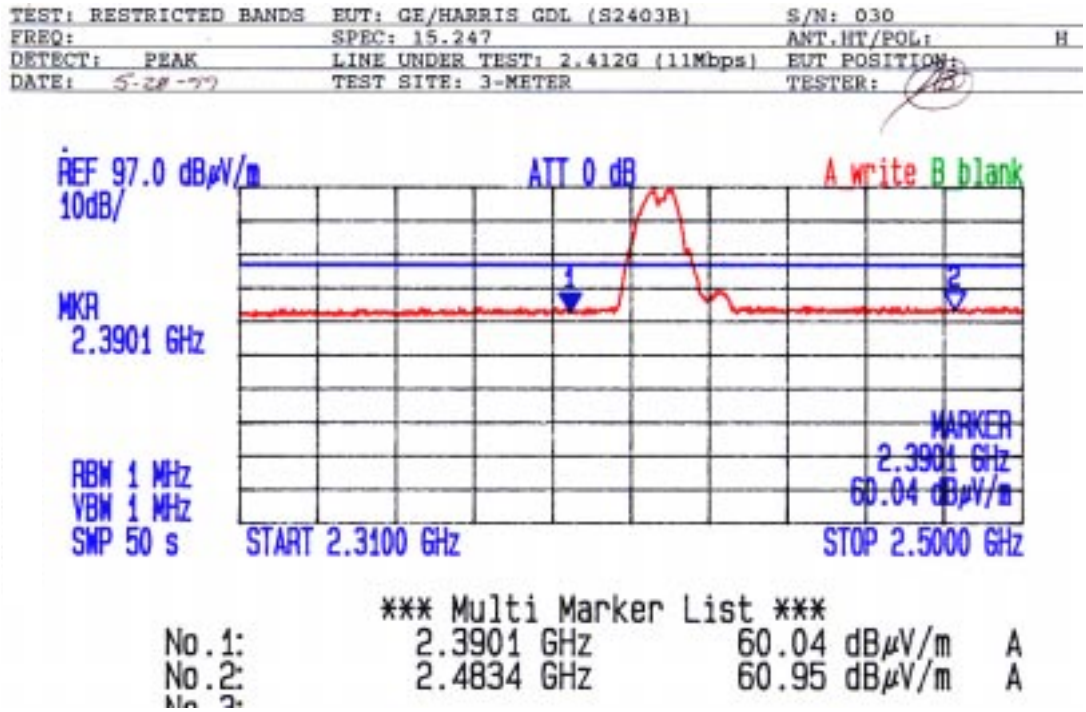


Figure 6.4.3-4: Data Sheet

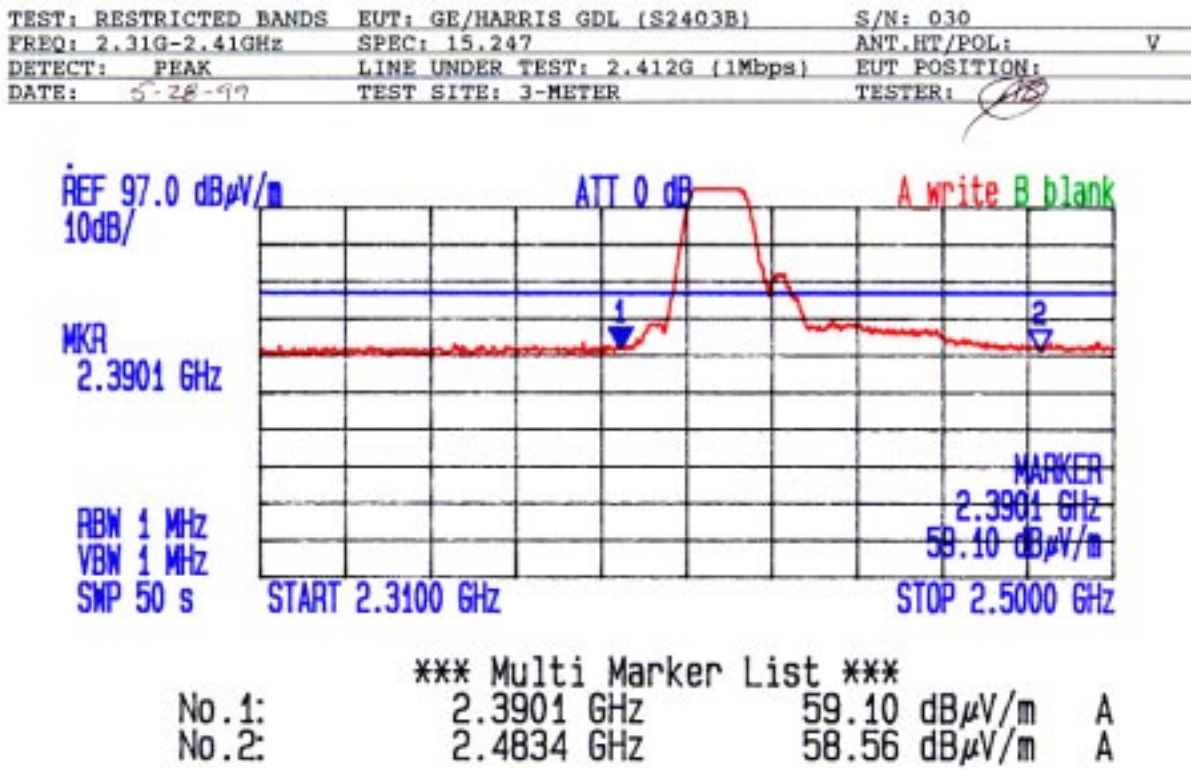


Figure 6.4.3-5: Data Sheet

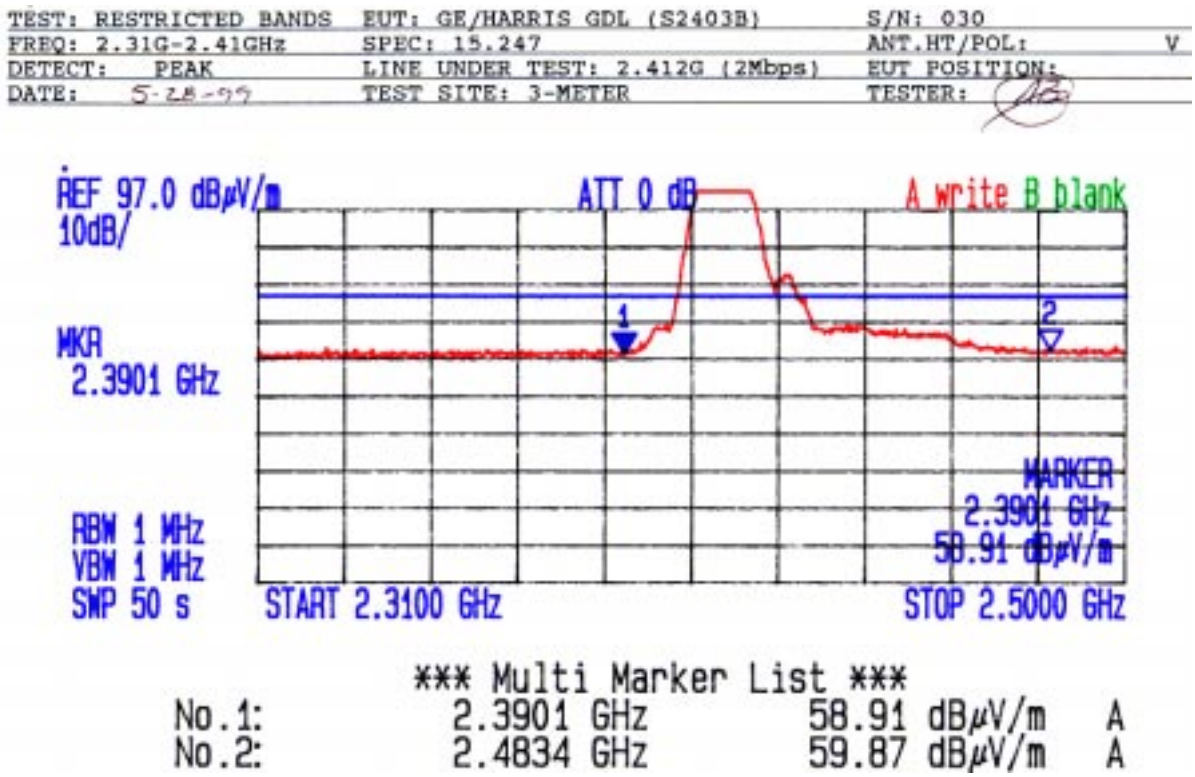
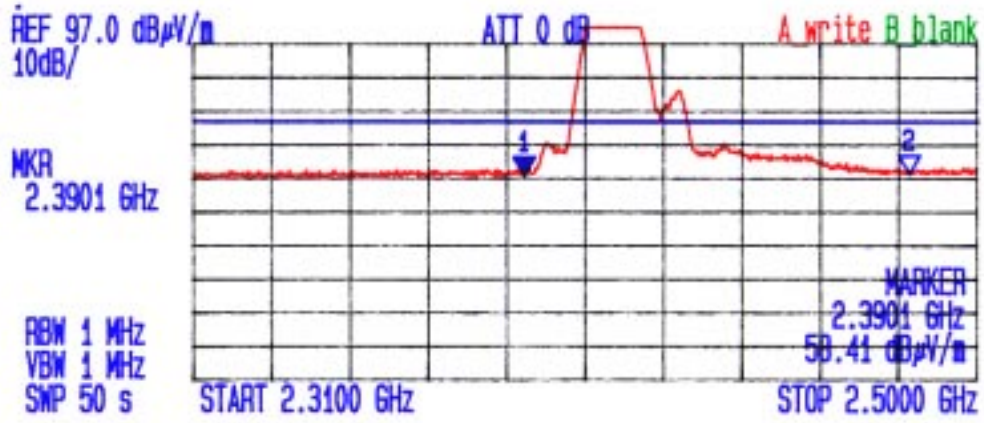


Figure 6.4.3-6: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (S2403B)	S/N: 030	
FREQ: 2.31G-2.41GHz	SPEC: 15.247	ANT.HT/POL:	V
DETECT: PEAK	LINE UNDER TEST: 2.412G (5.5Mbps)	EUT POSITION:	
DATE: 5-26-99	TEST SITE: 3-METER	TESTER:	

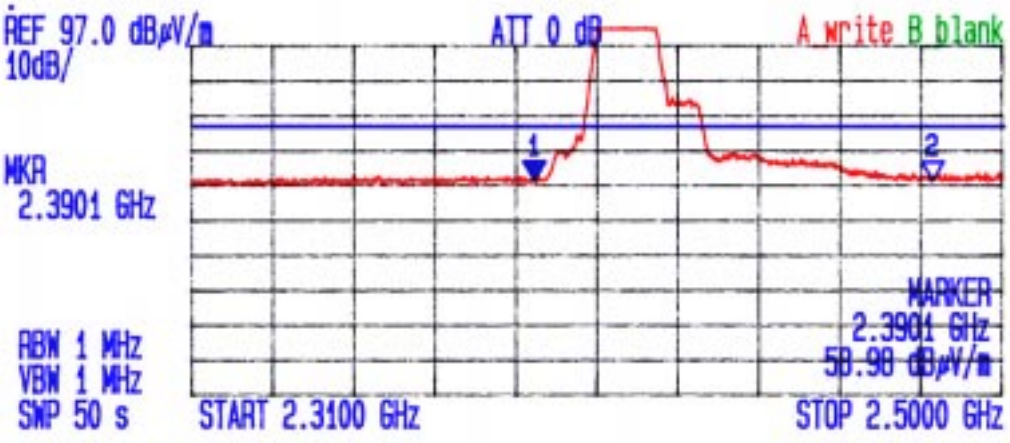


*** Multi Marker List ***

No.1:	2.3901 GHz	58.41 dBµV/m	A
No.2:	2.4834 GHz	58.84 dBµV/m	A

Figure 6.4.3-7: Data Sheet

TEST: RESTRICTED BANDS	EUT: GE/HARRIS GDL (S2403B)	S/N: 030	
FREQ: 2.31G-2.41GHz	SPEC: 15.247	ANT.HT/POL:	V
DETECT: PEAK	LINE UNDER TEST: 2.412G (11Mbps)	EUT POSITION:	
DATE:	TEST SITE: 3-METER	TESTER:	



*** Multi Marker List ***

No.1:	2.3901 GHz	58.98 dBµV/m	A
No.2:	2.4834 GHz	58.96 dBµV/m	A

Figure 6.4.3-8: Data Sheet

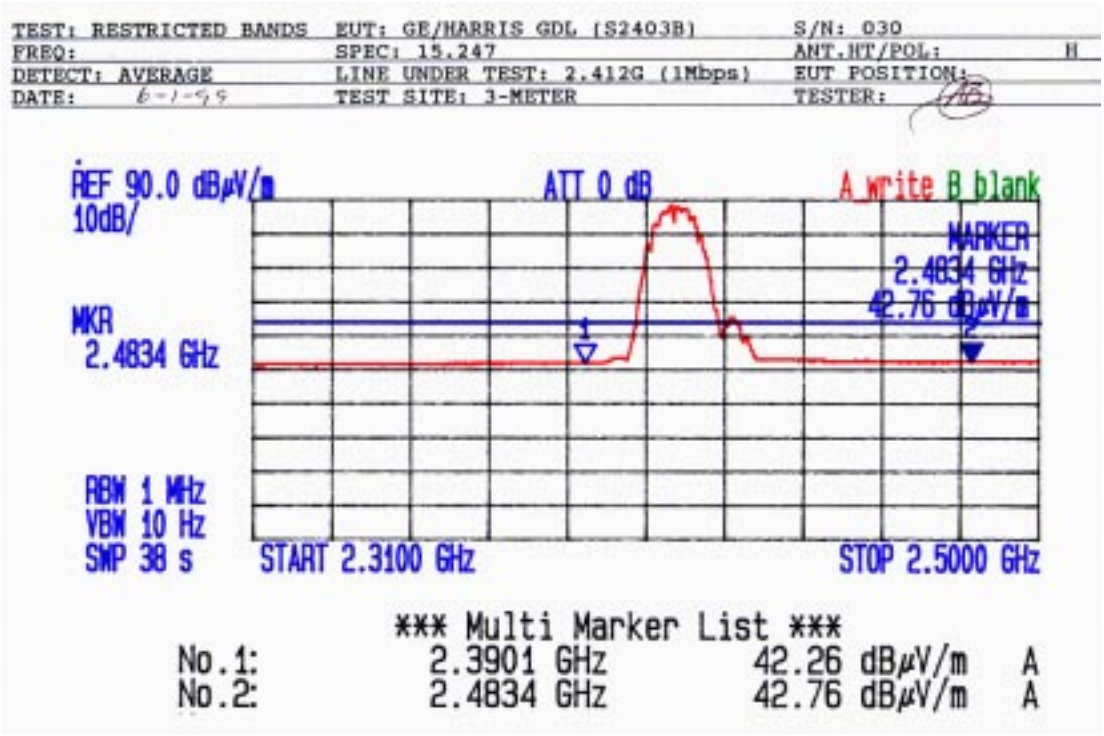


Figure 6.4.3-9: Data Sheet

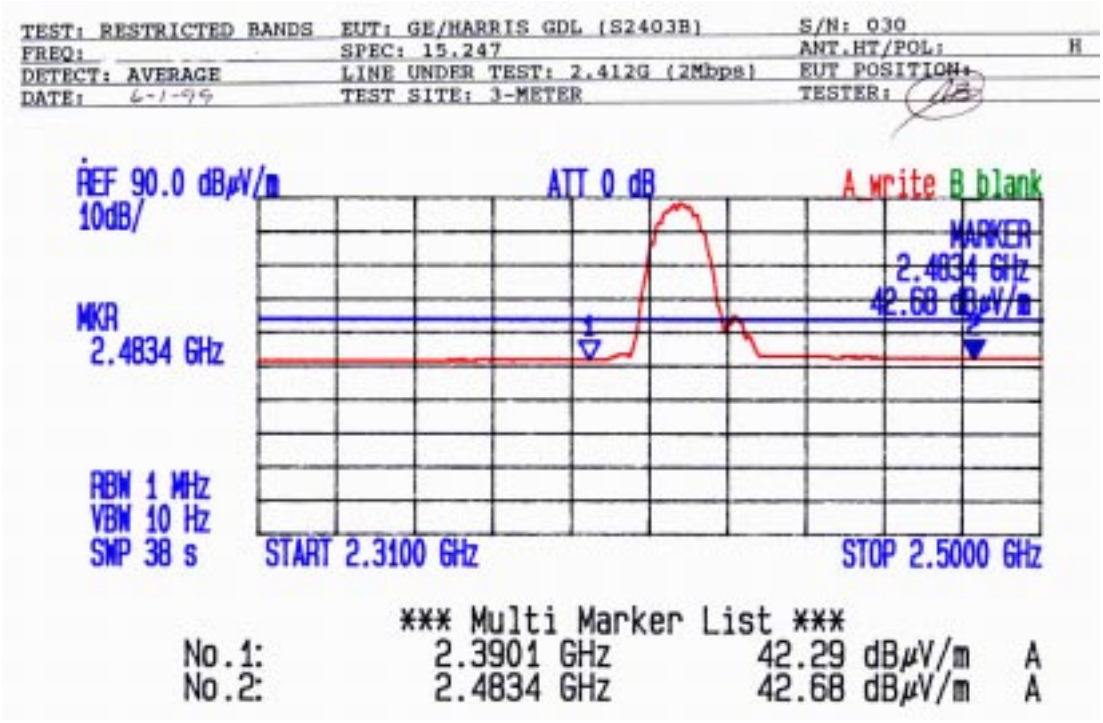


Figure 6.4.3-10: Data Sheet

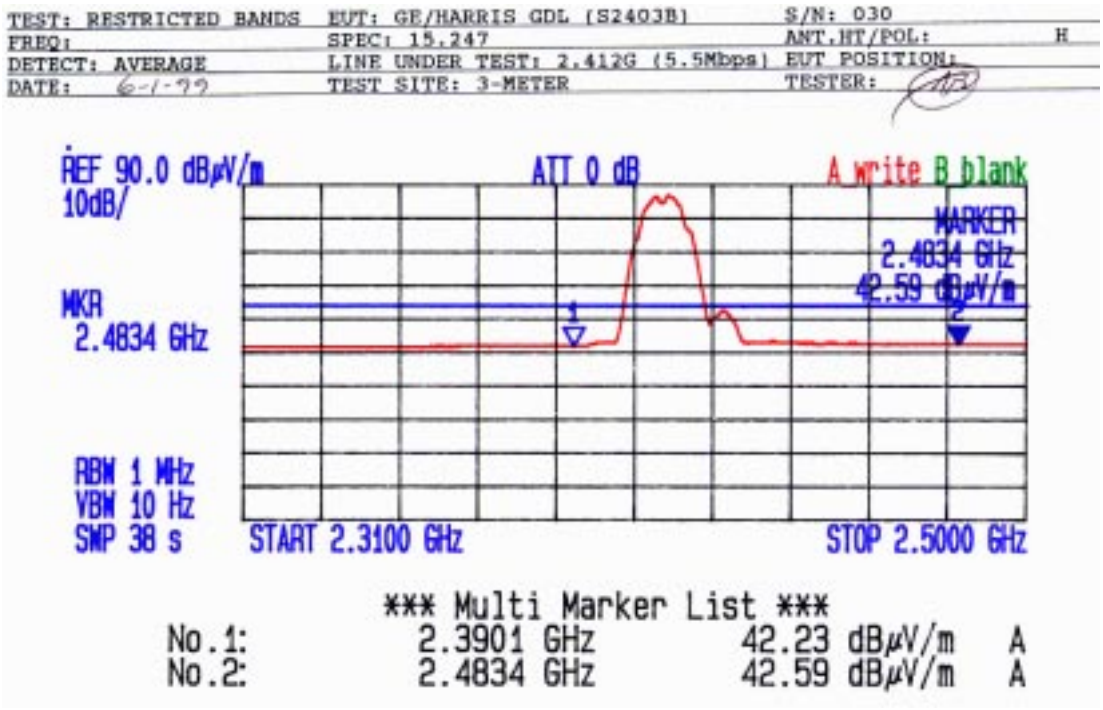


Figure 6.4.3-11: Data Sheet

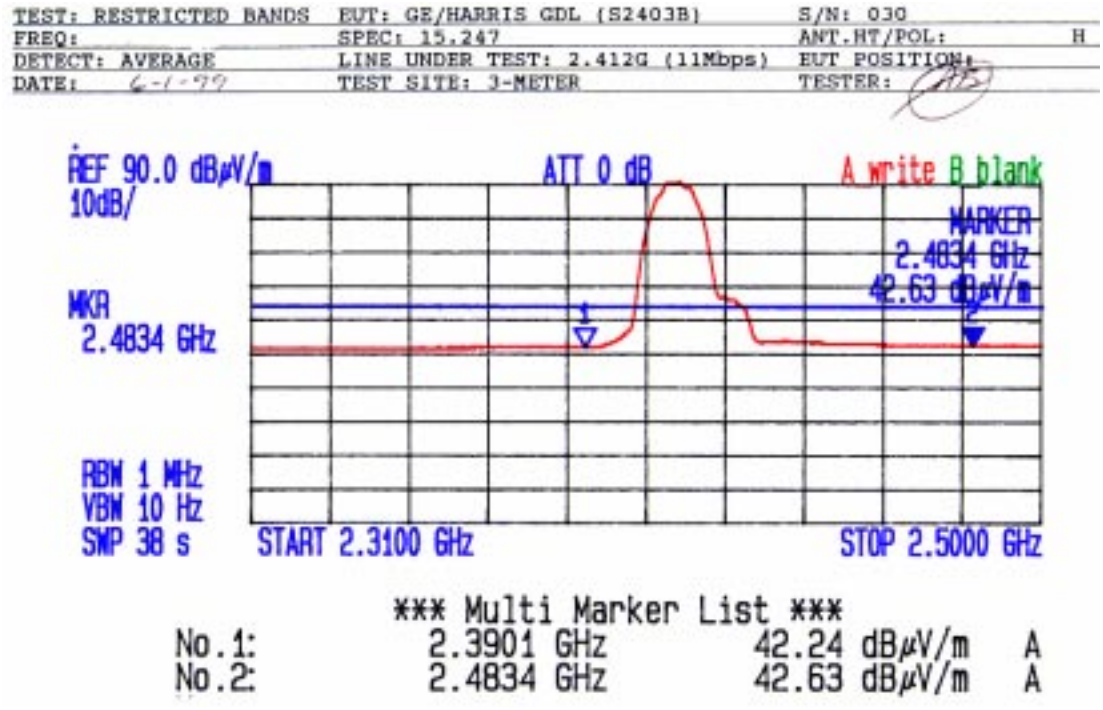


Figure 6.4.3-12: Data Sheet

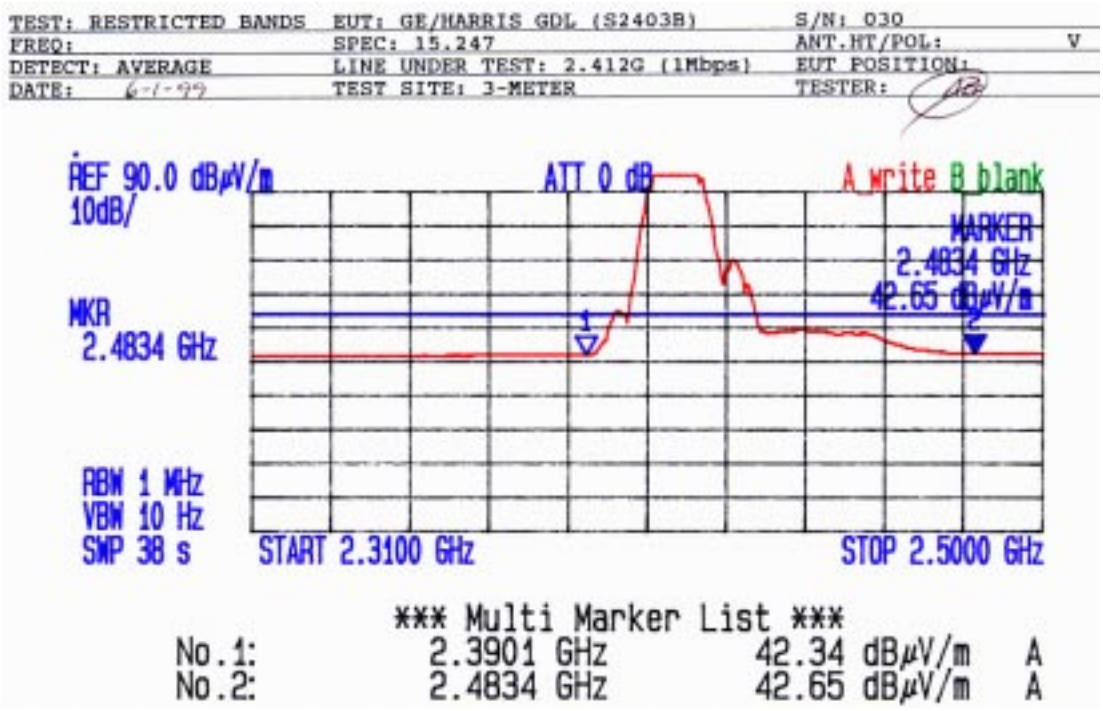


Figure 6.4.3-13: Data Sheet

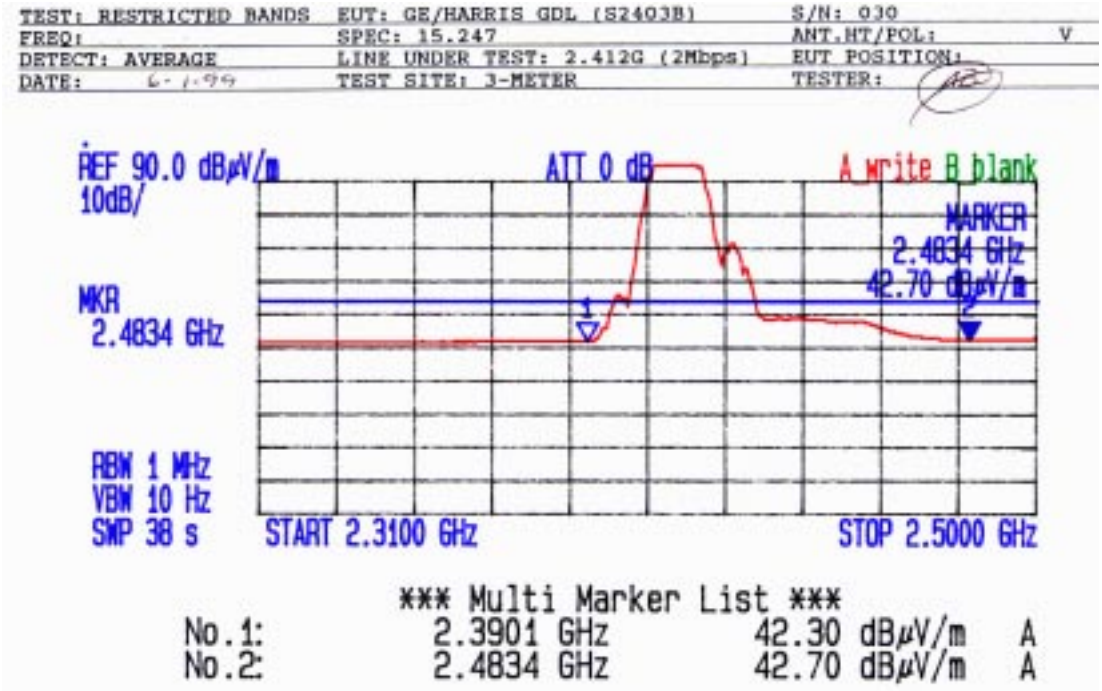
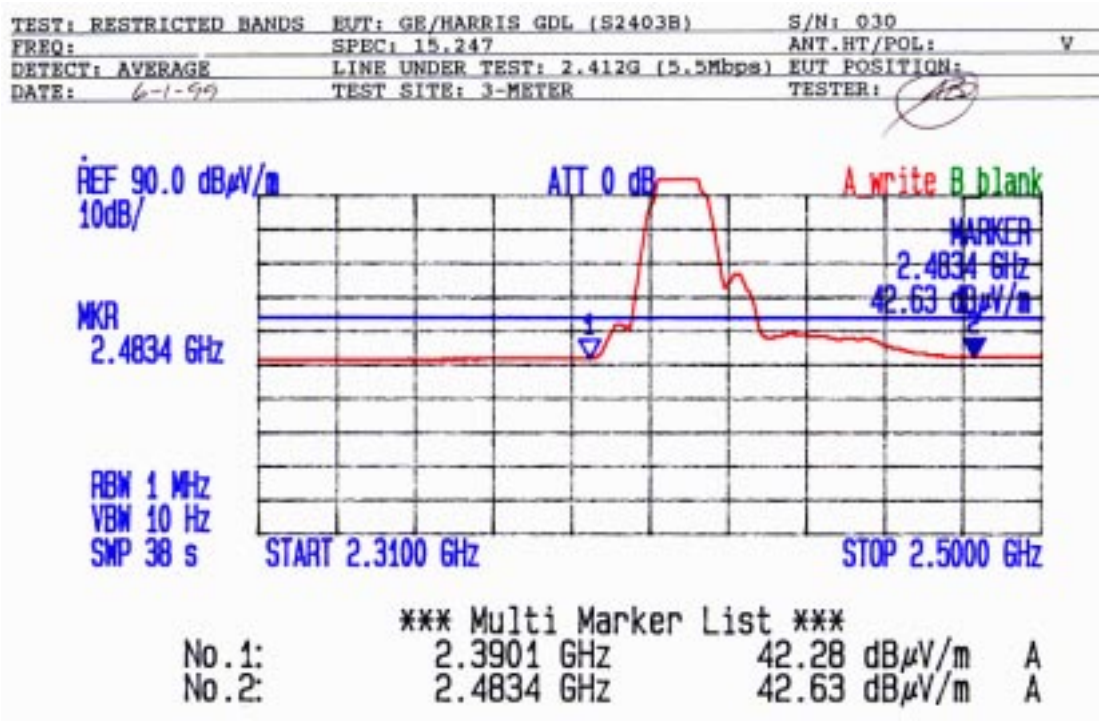


Figure 6.4.3-14: Data Sheet



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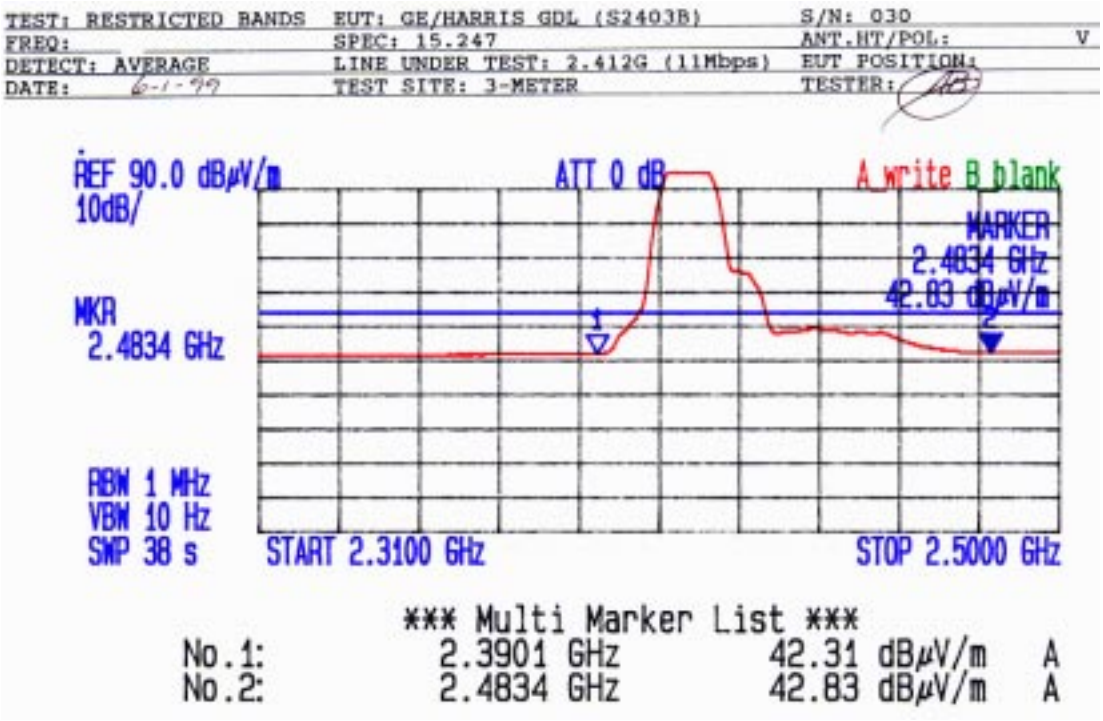

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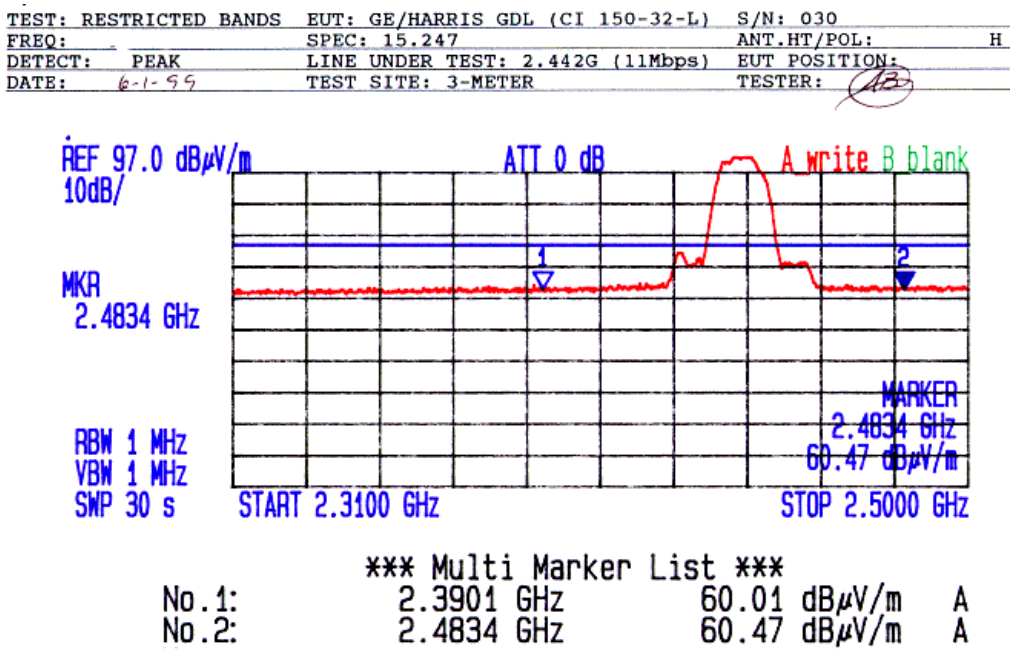

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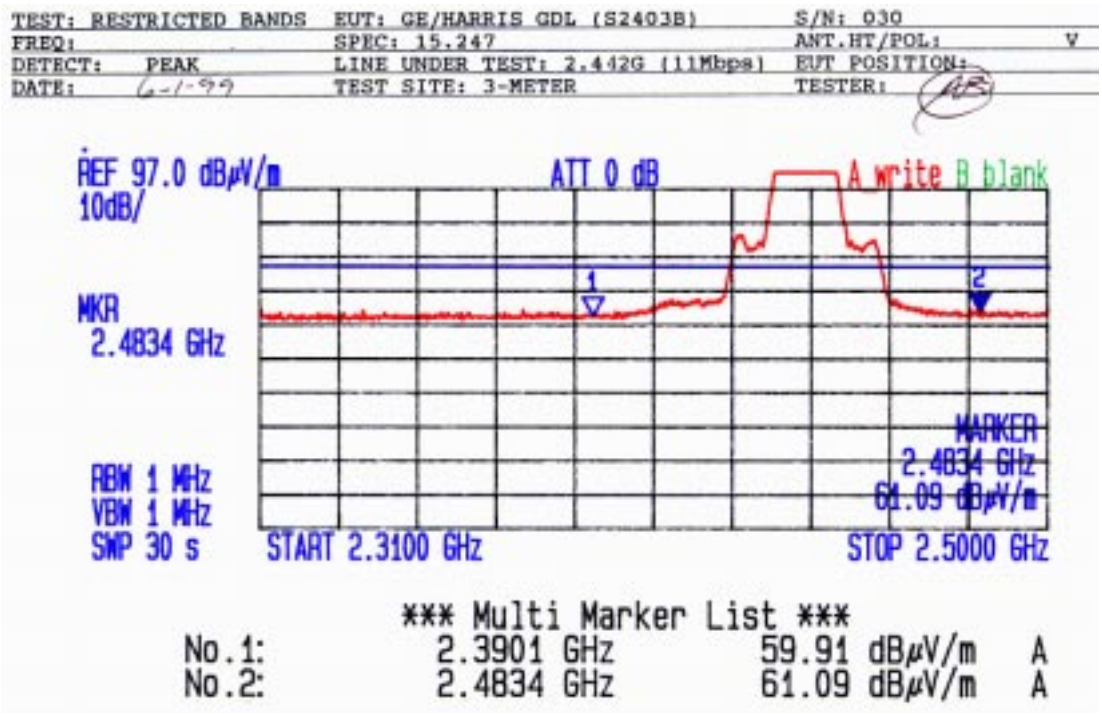

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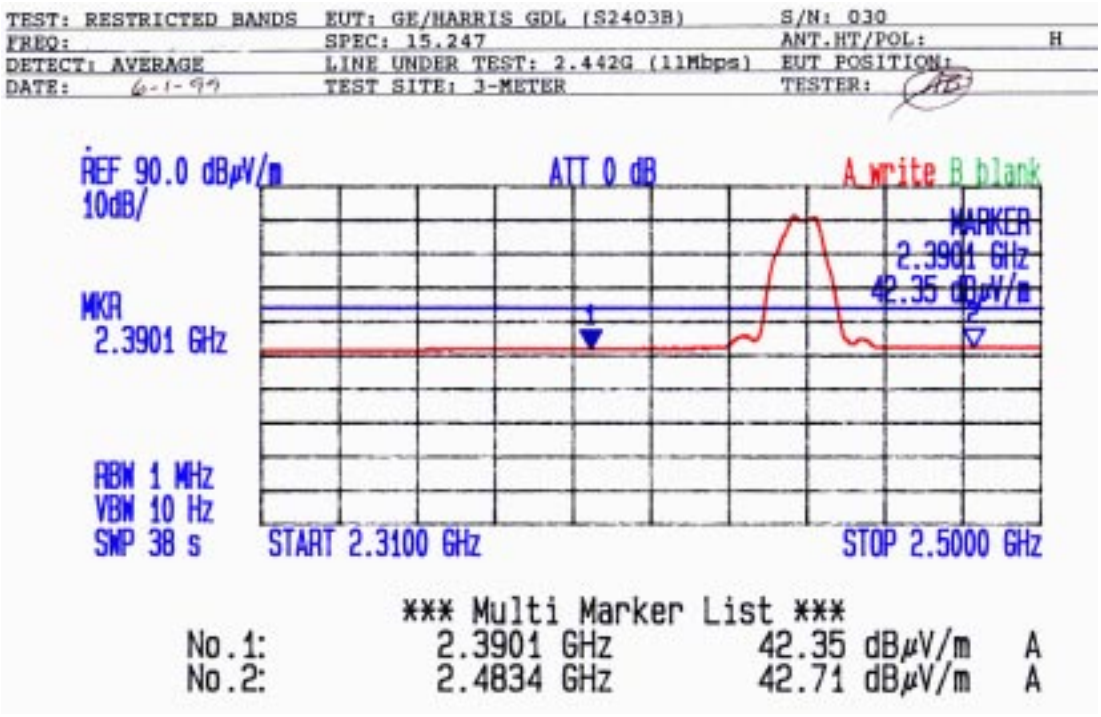

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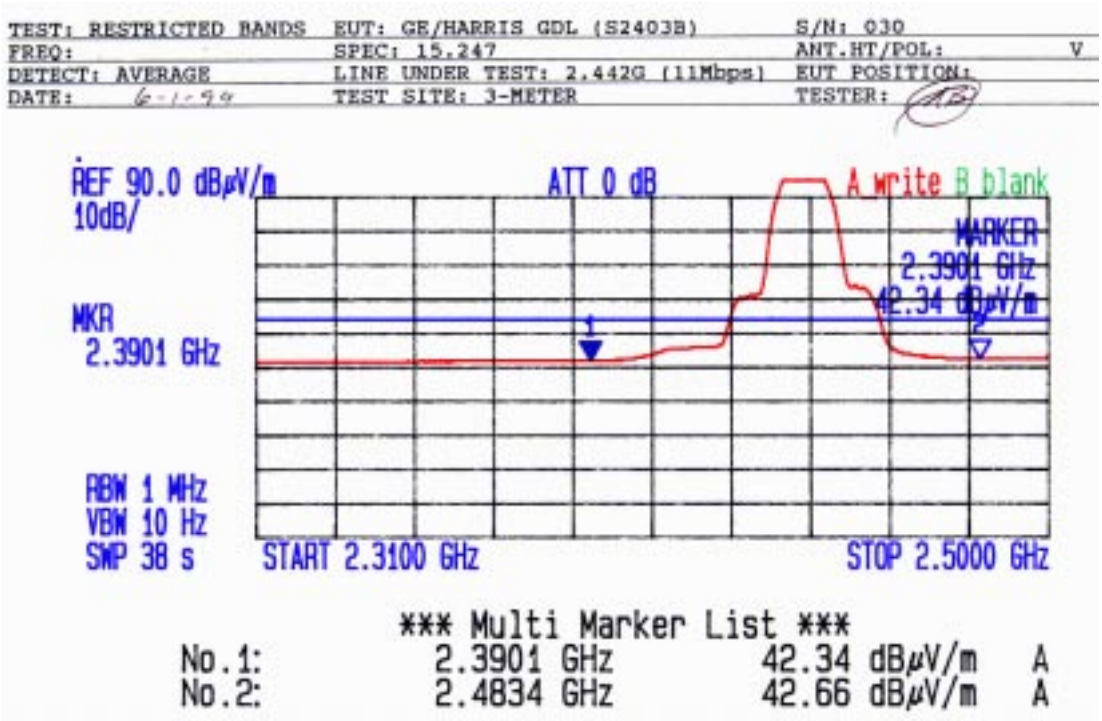

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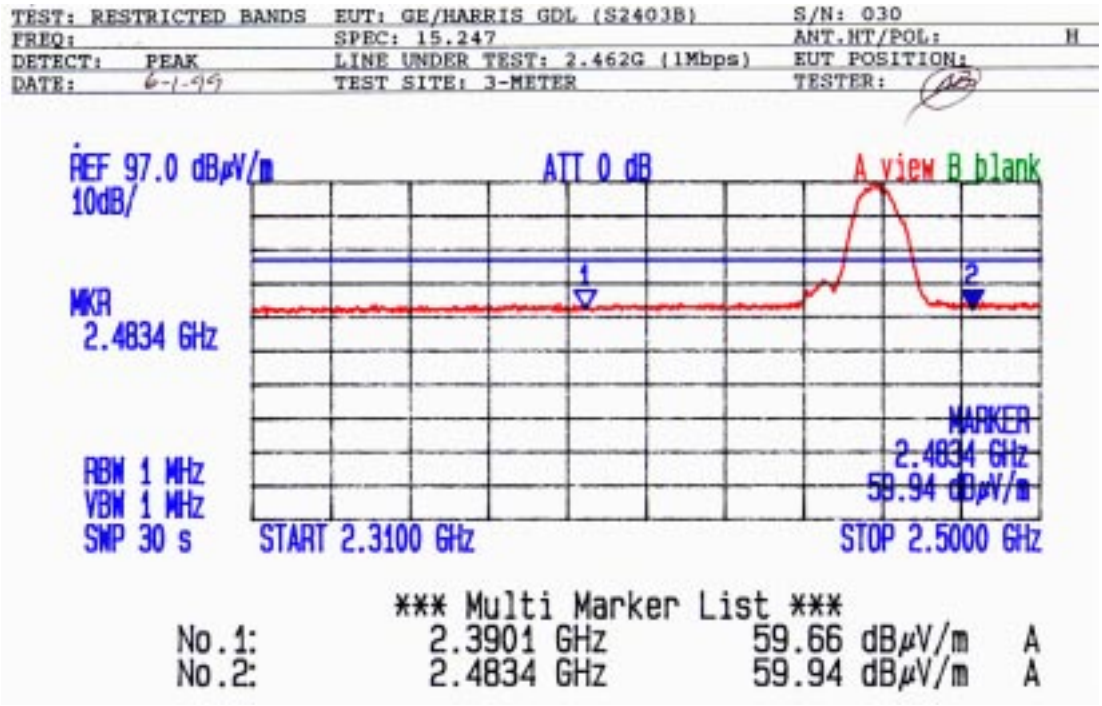

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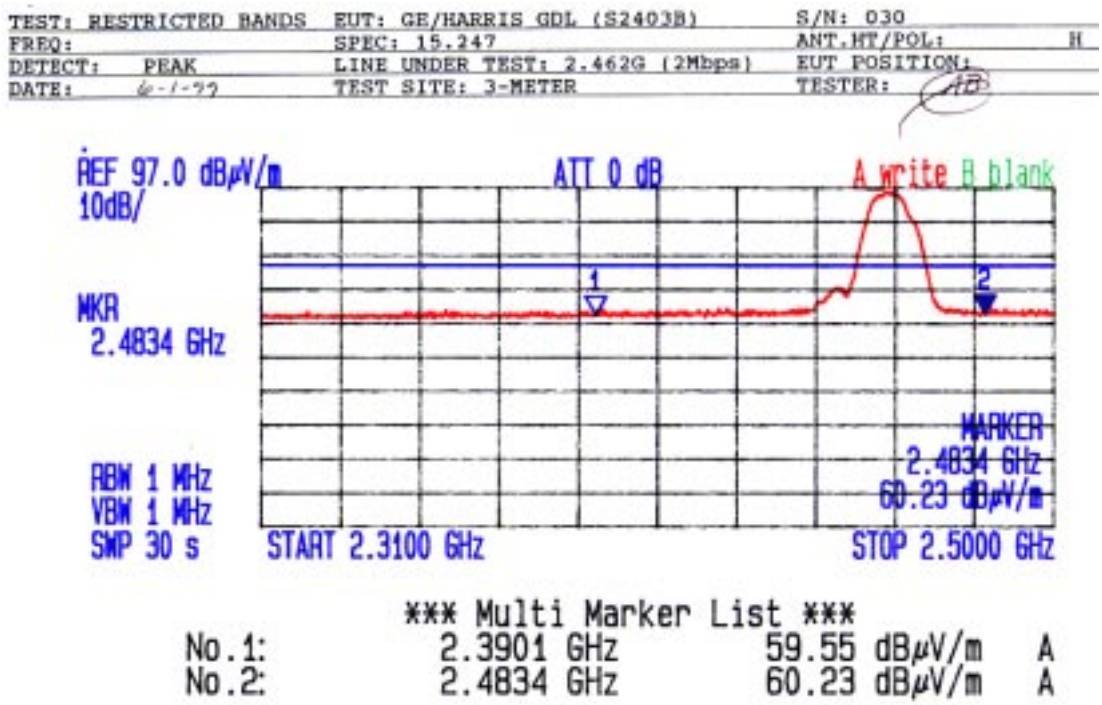

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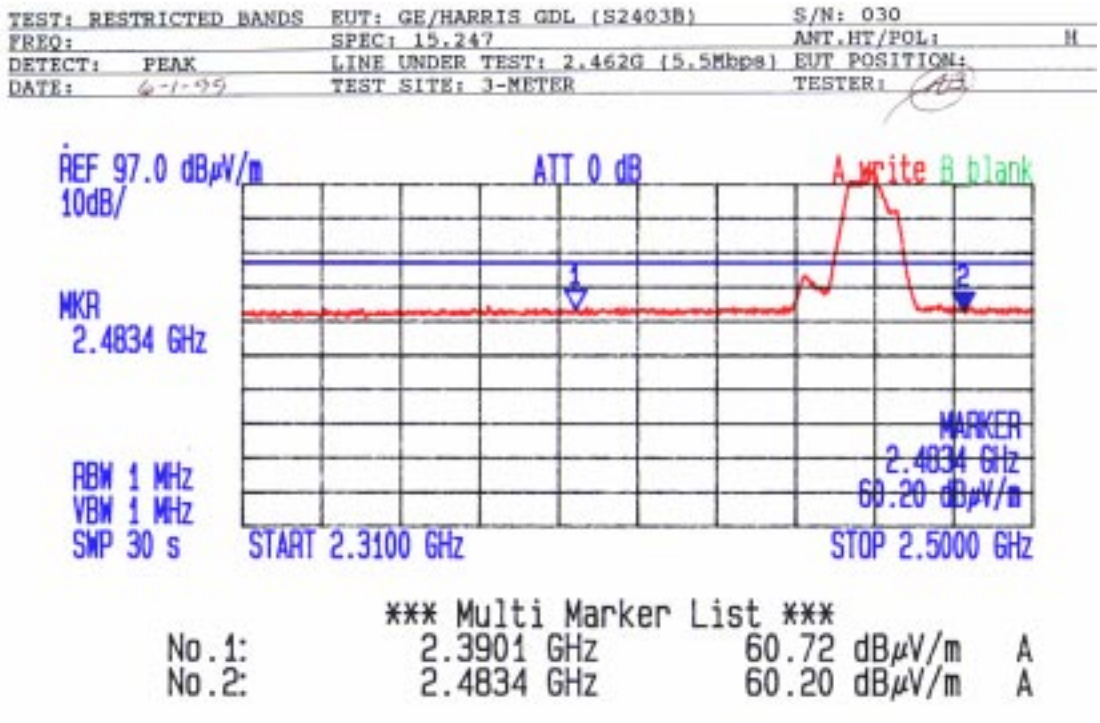

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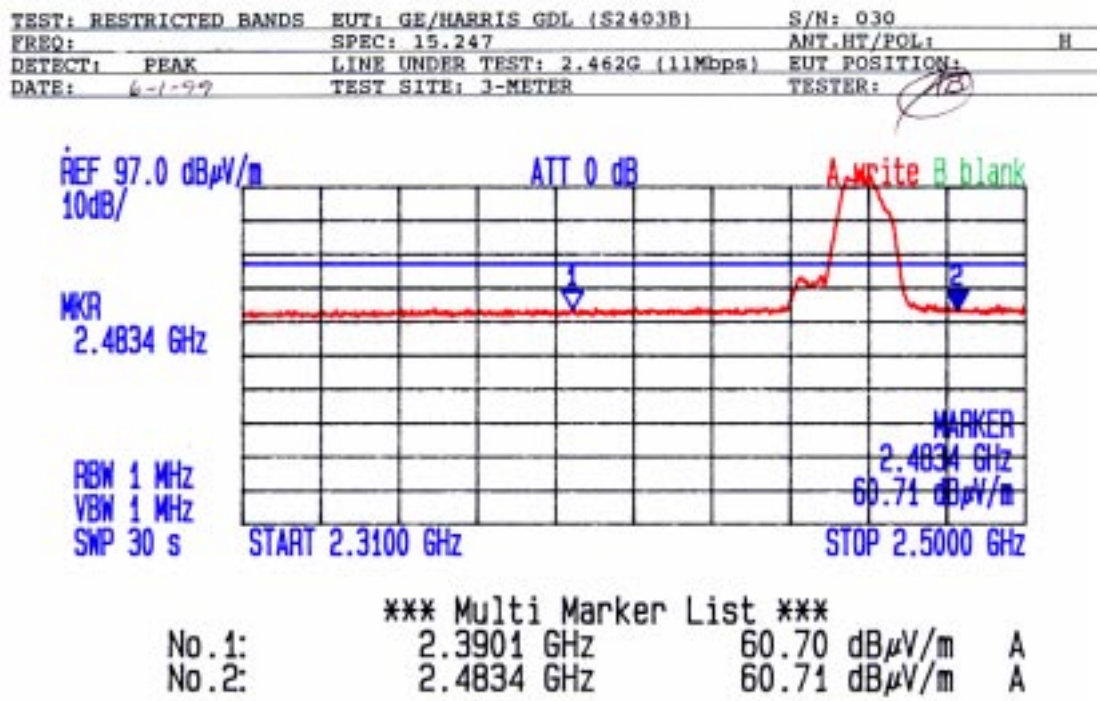

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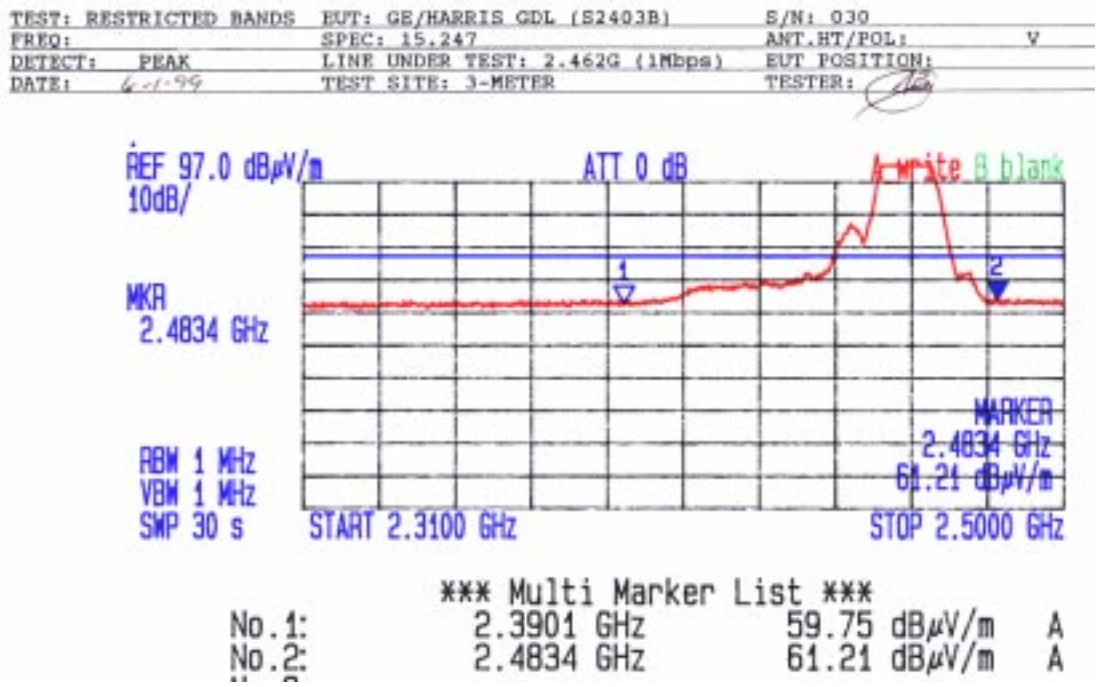

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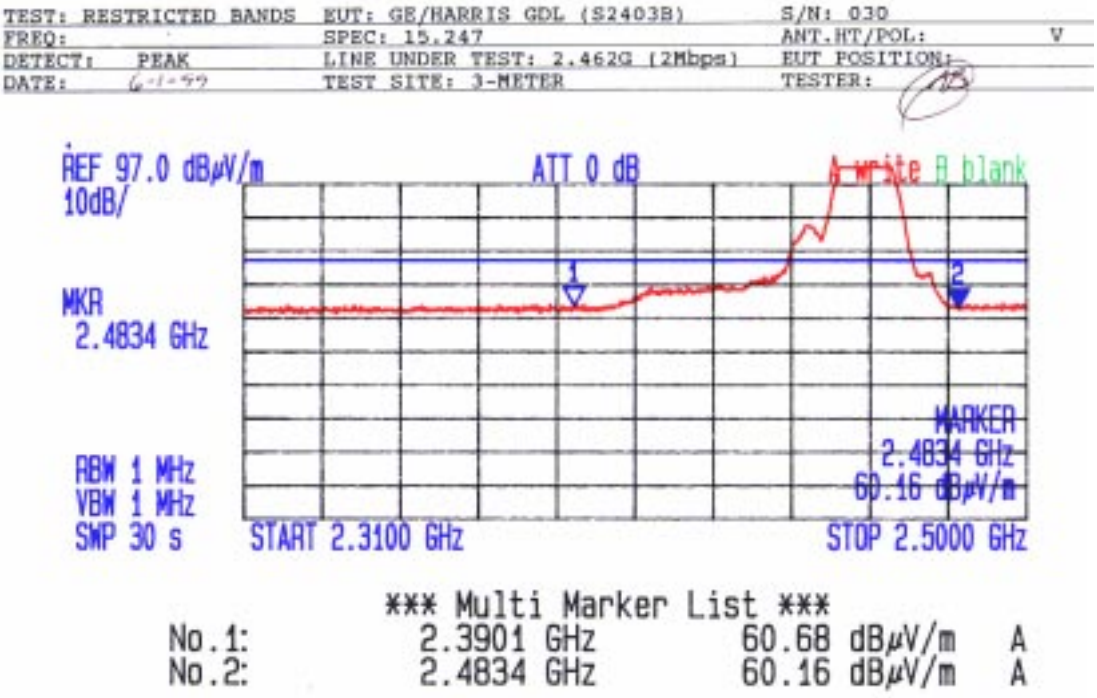

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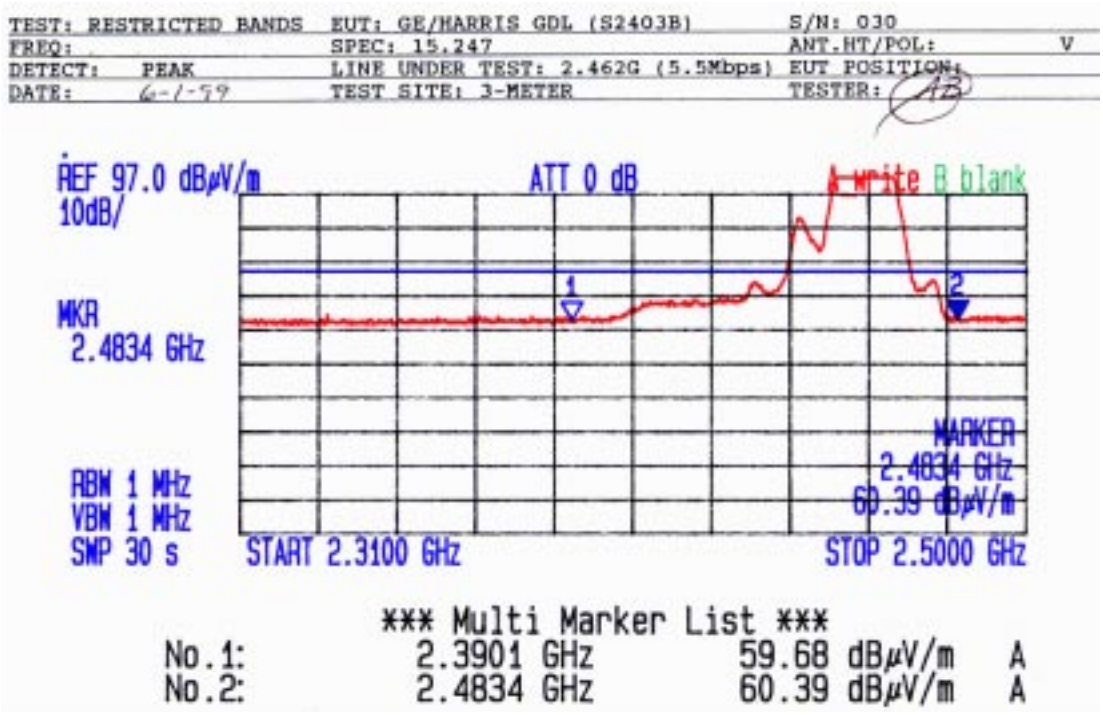

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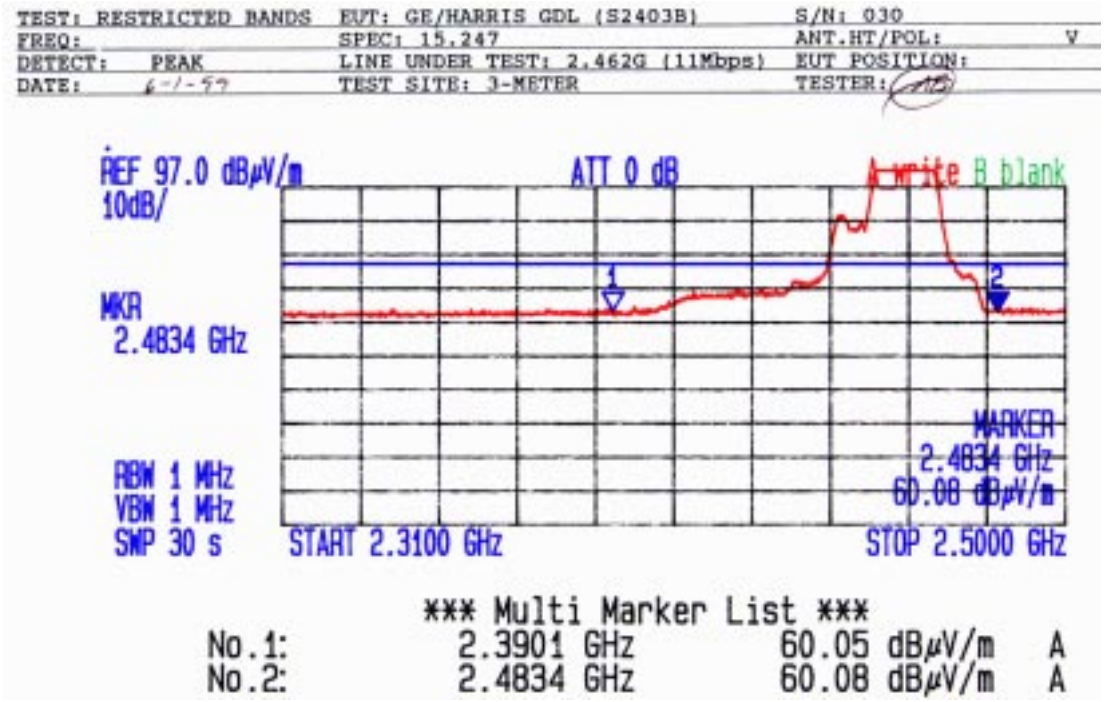

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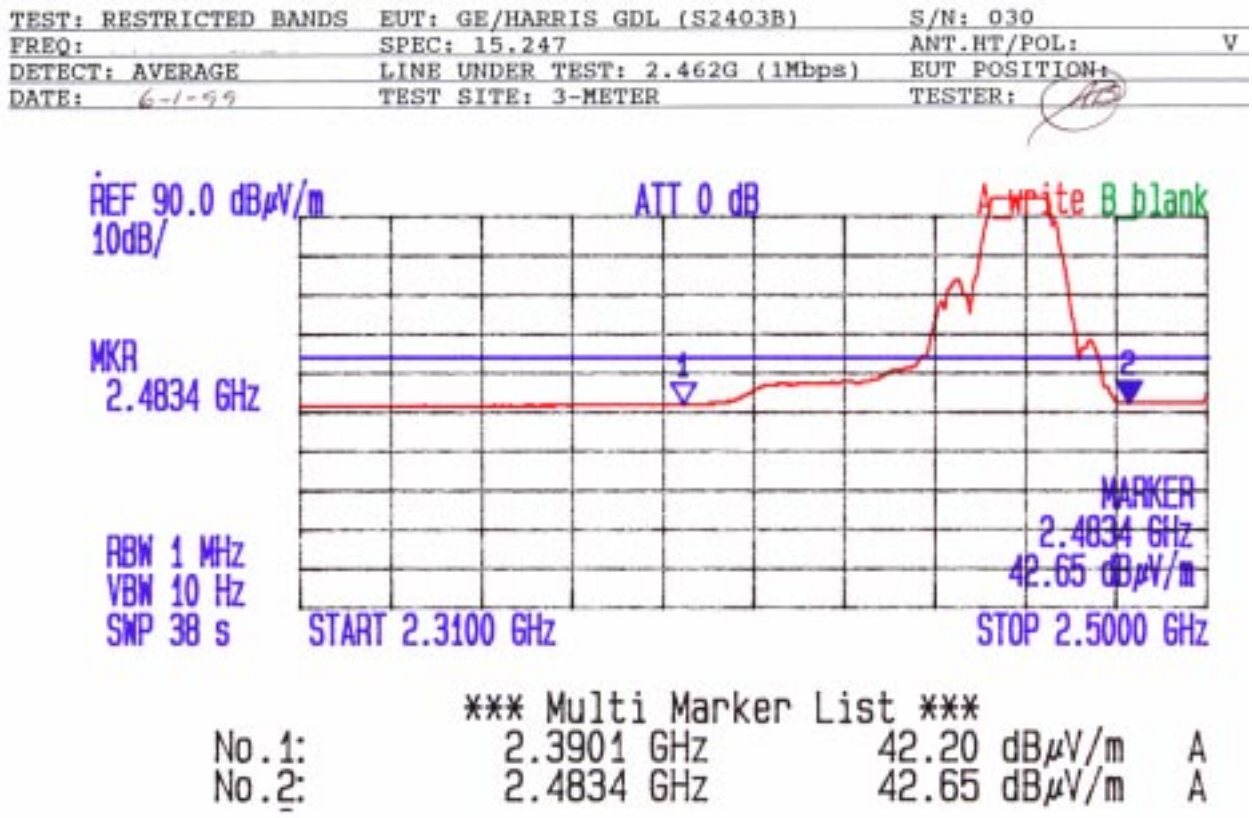


Figure 6.4.3-29: Data Sheet

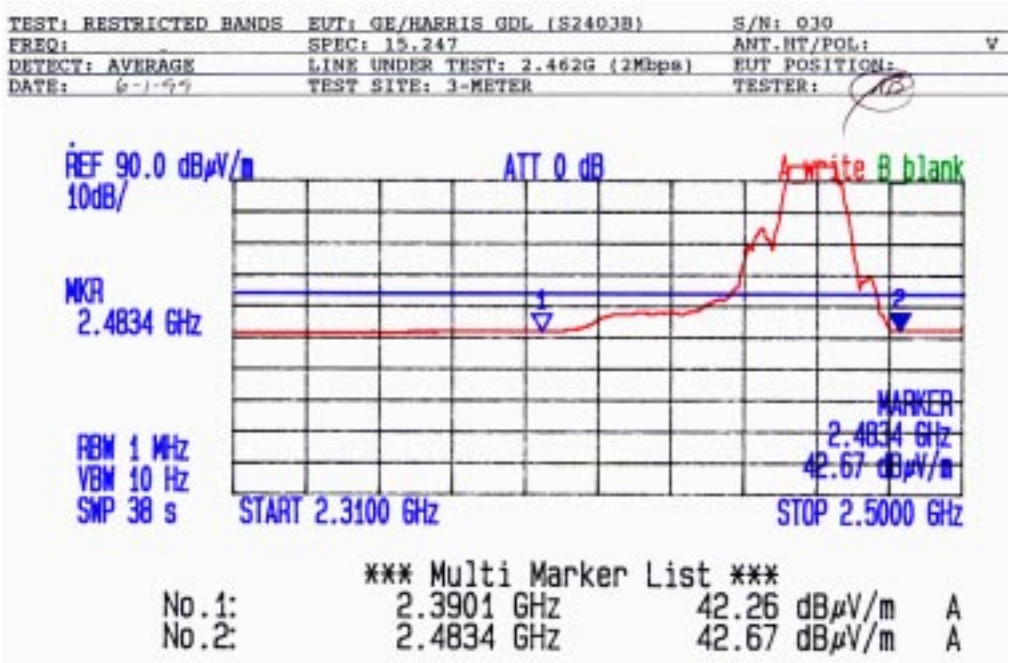


Figure 6.4.3-30: Data Sheet

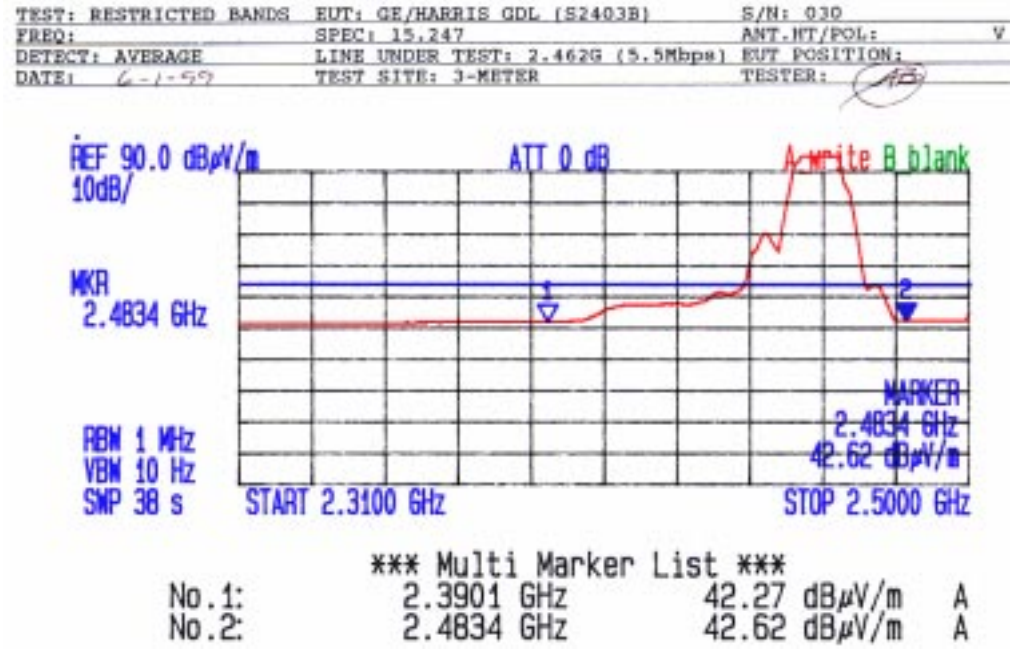
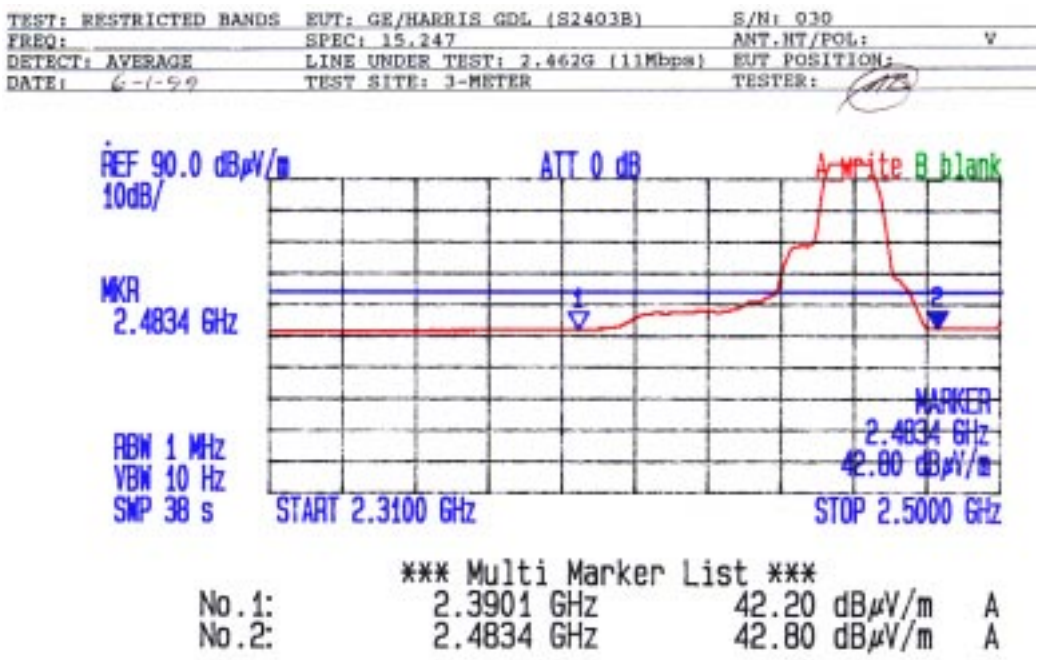


Figure 6.4.3-31: Data Sheet



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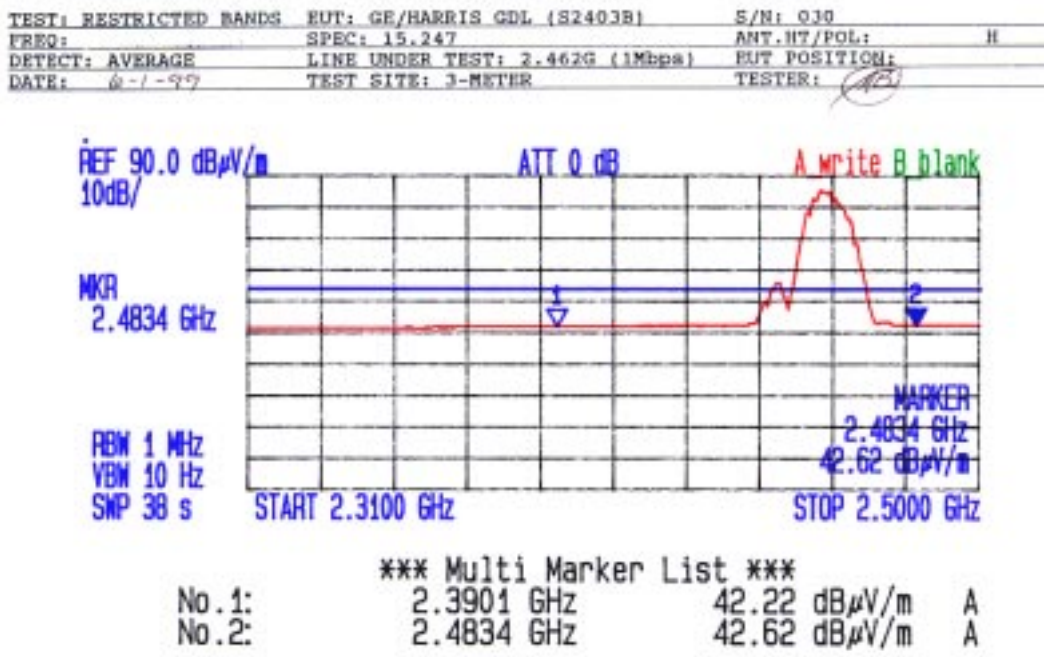

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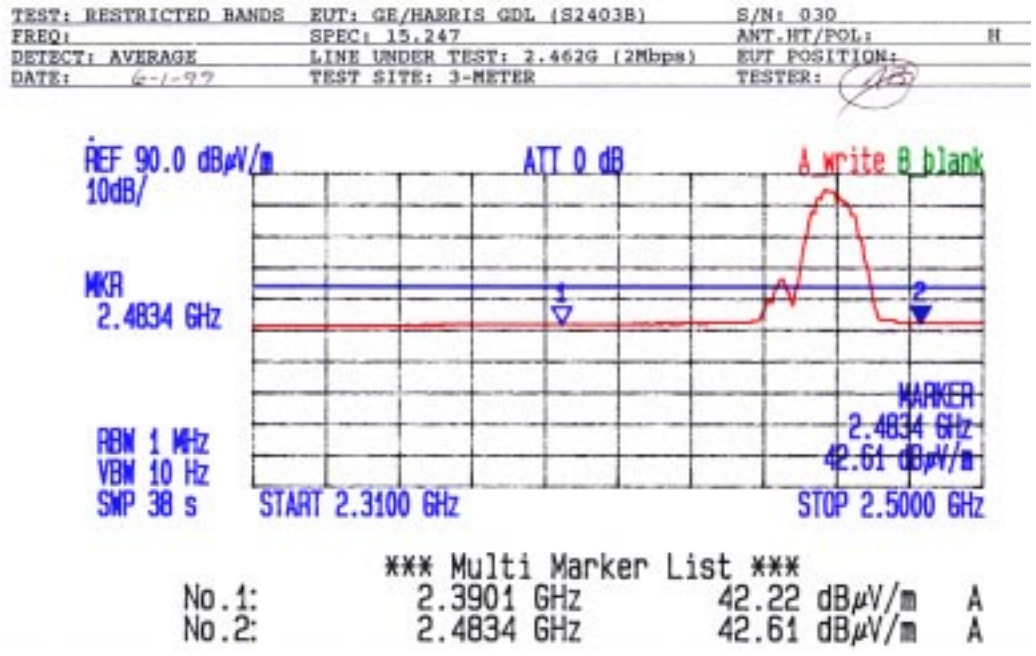

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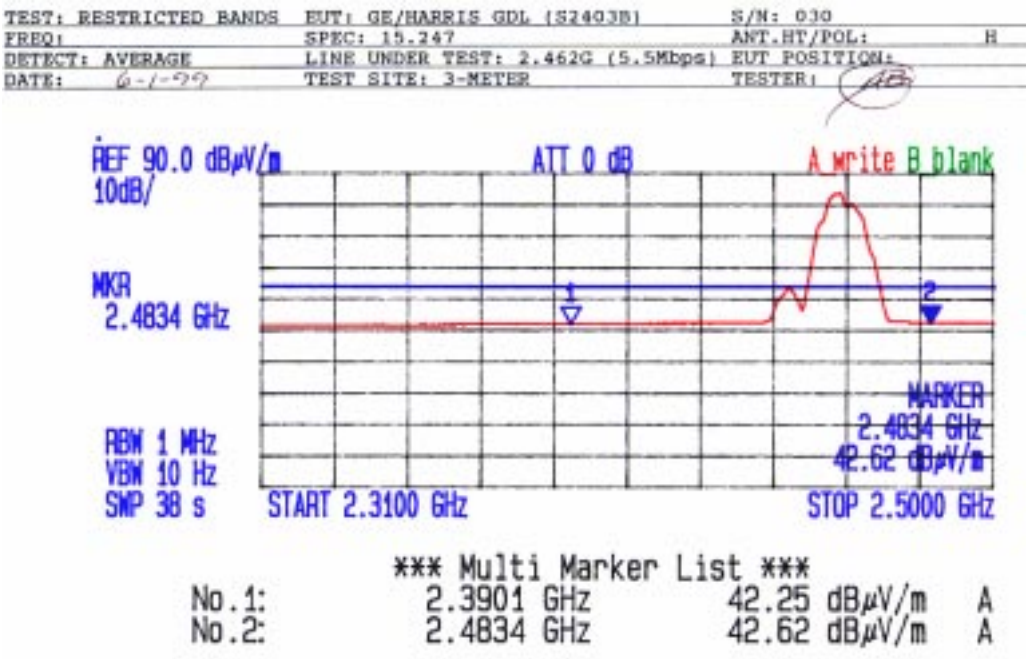

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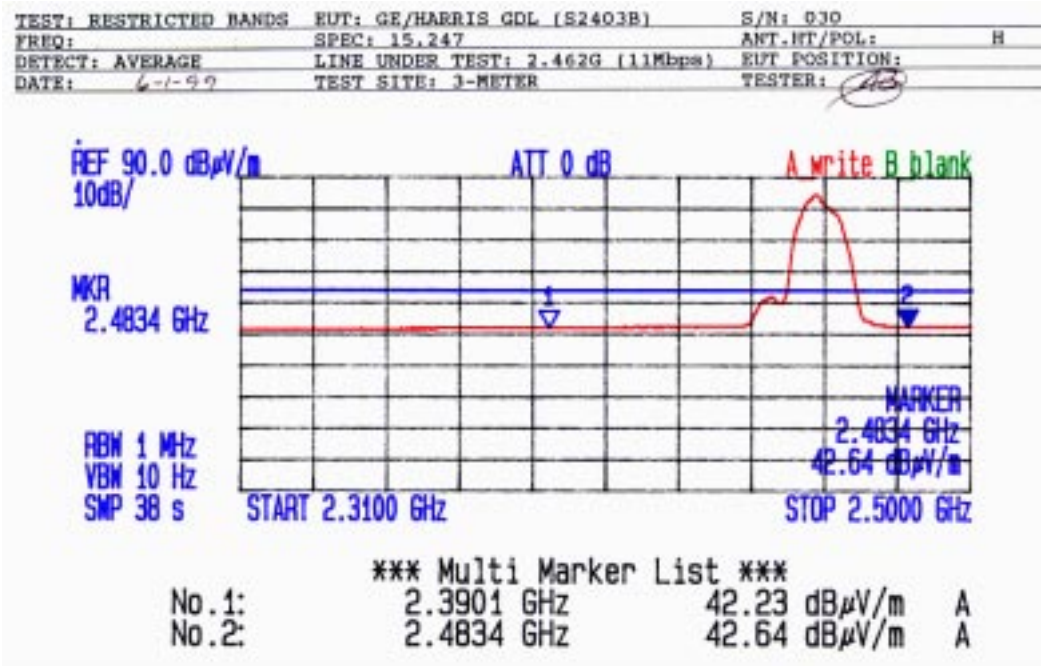

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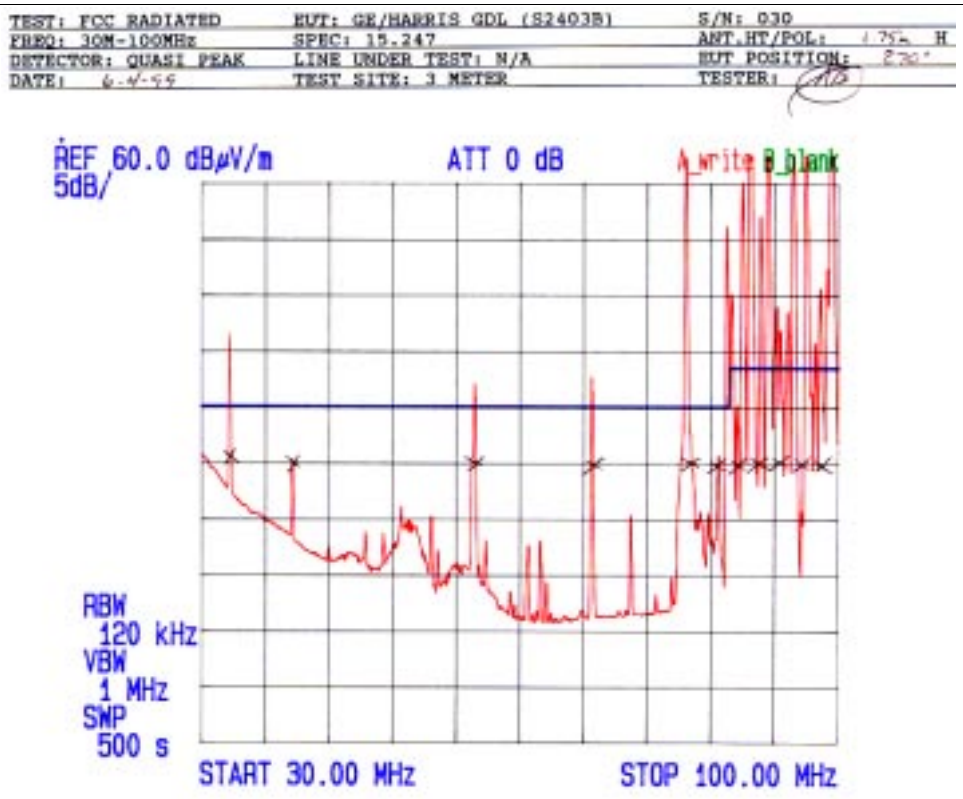

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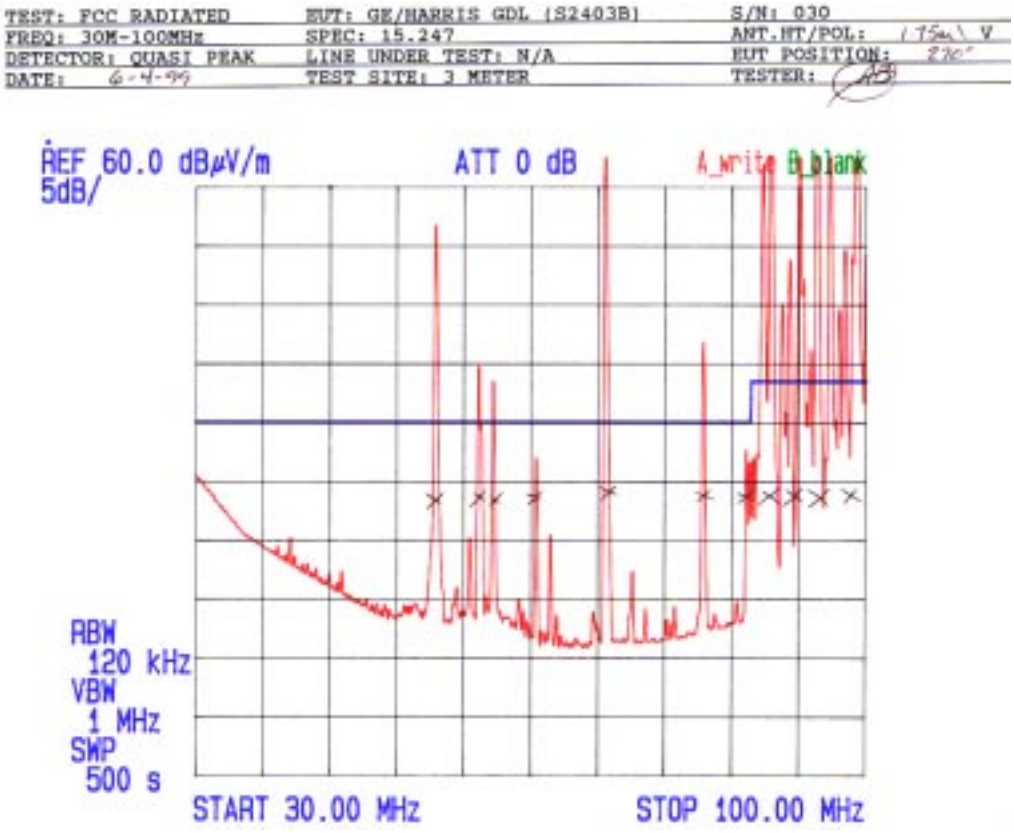

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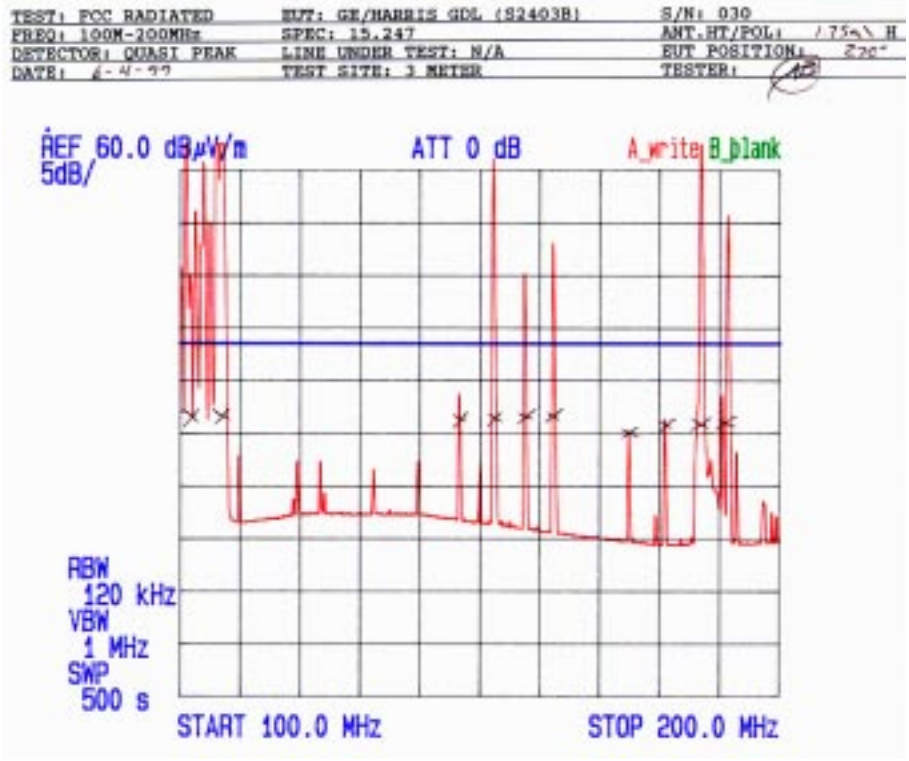

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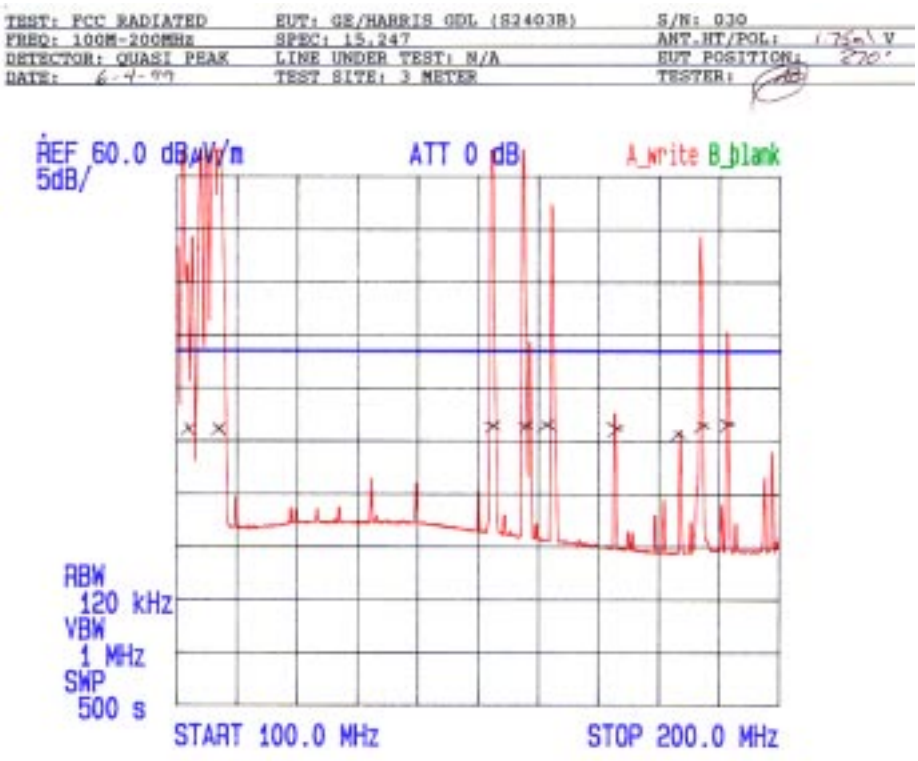

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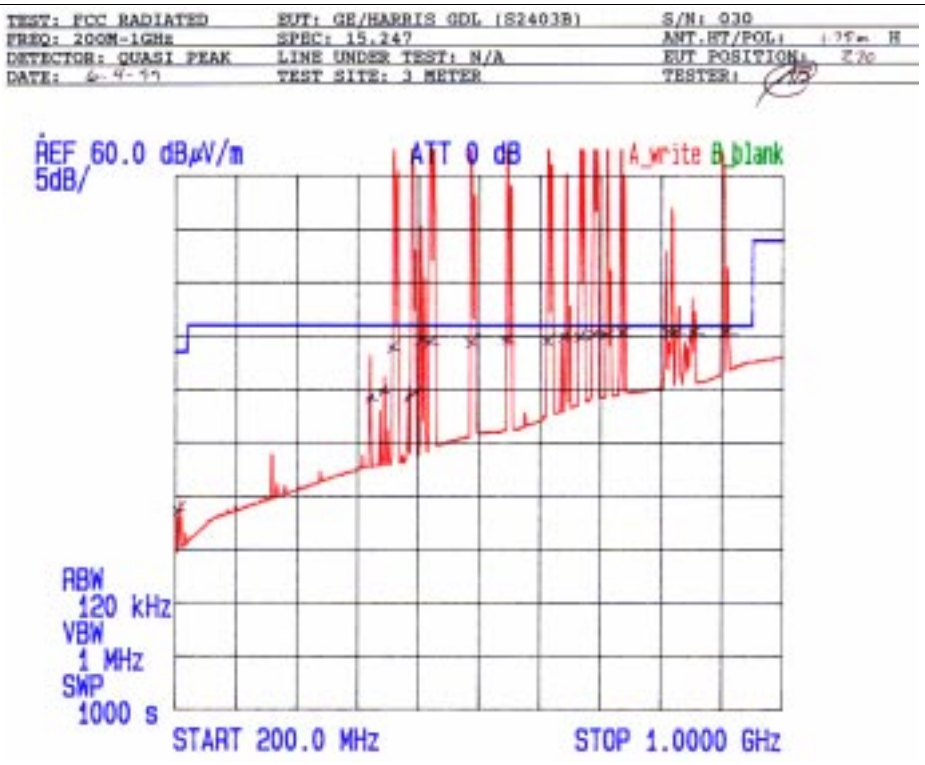


Figure 6.4.3-41: Data Sheet

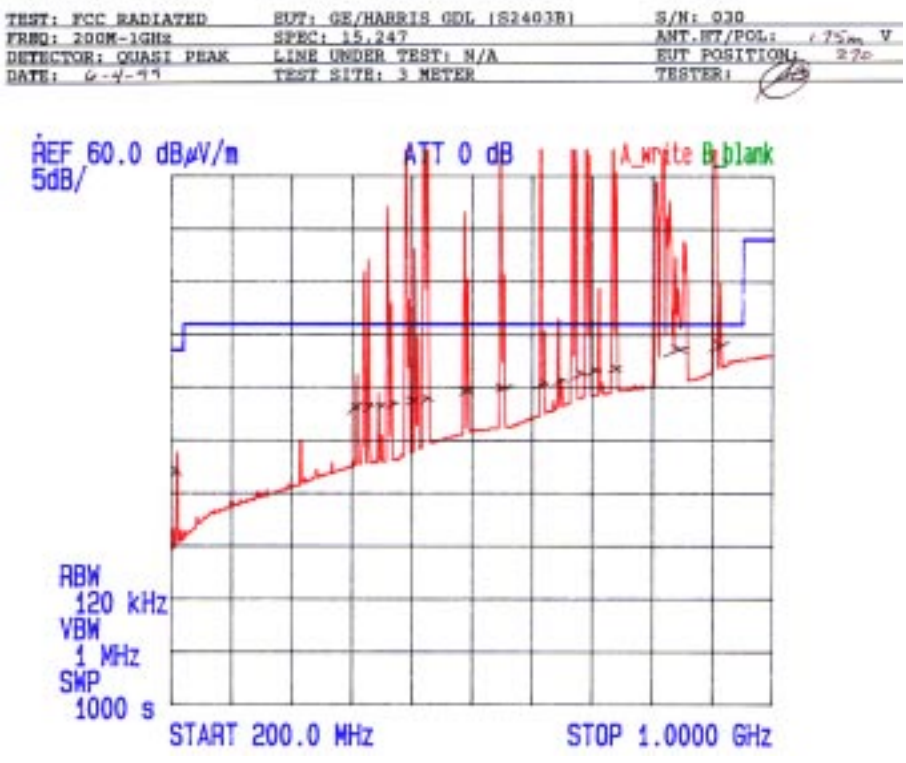
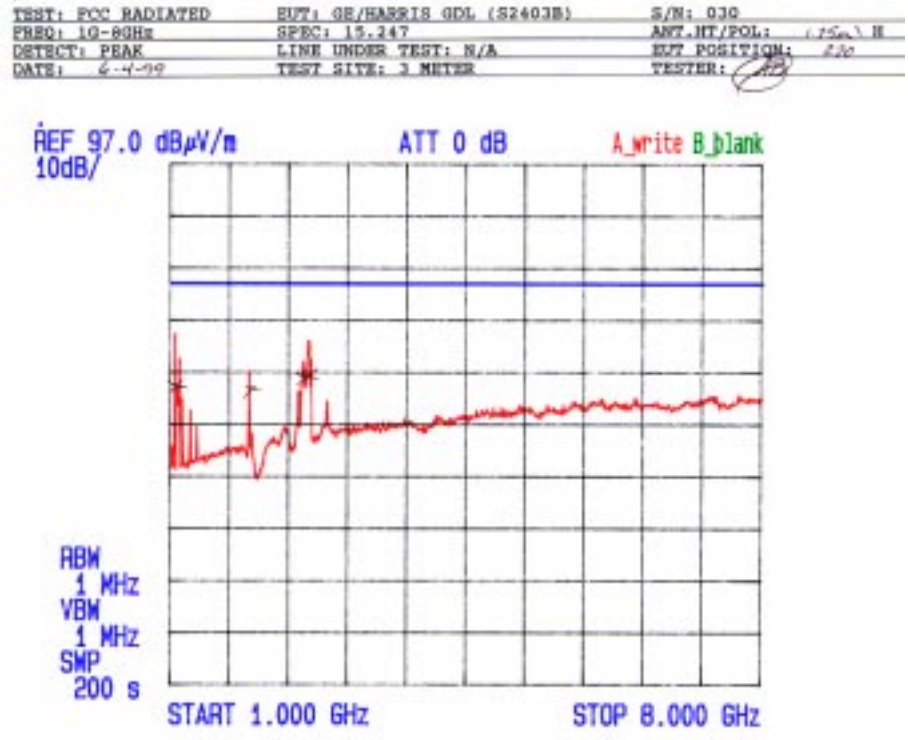


Figure 6.4.3-42: Data Sheet



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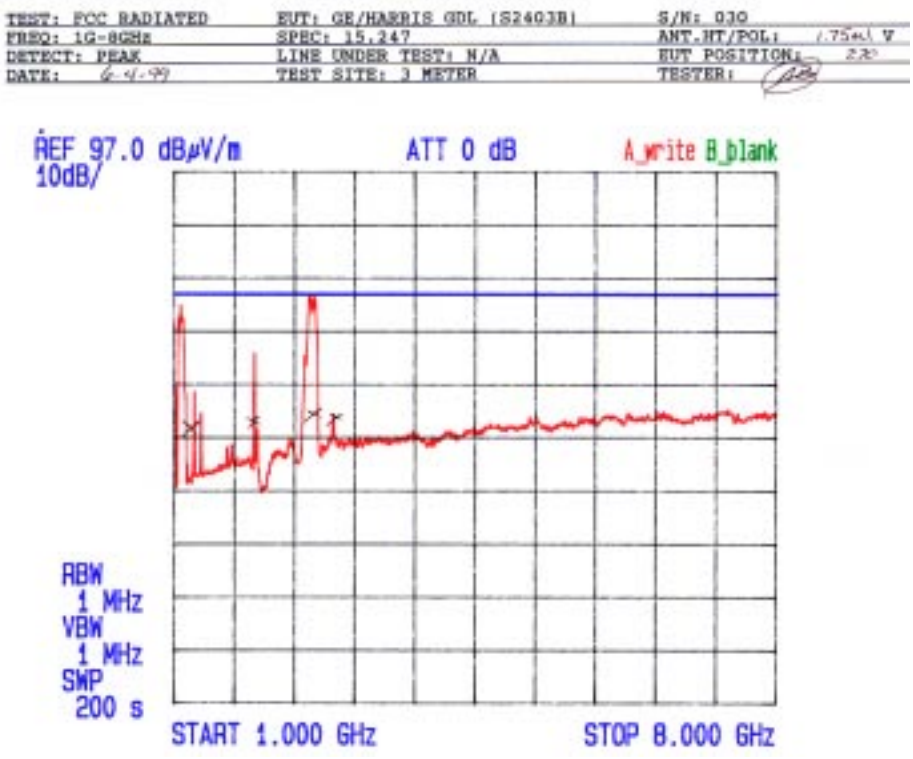

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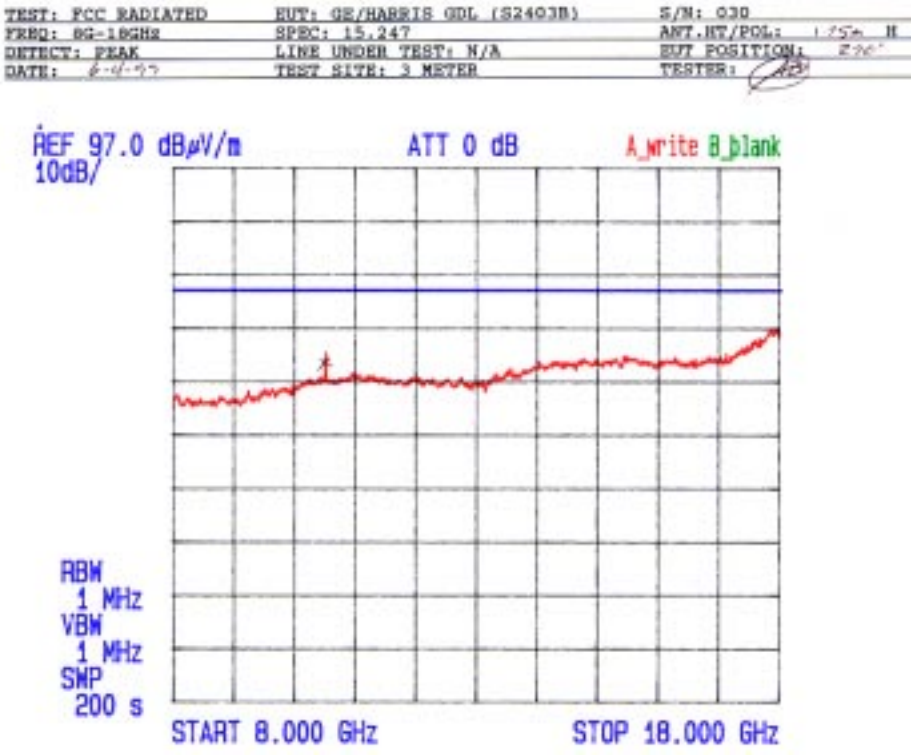

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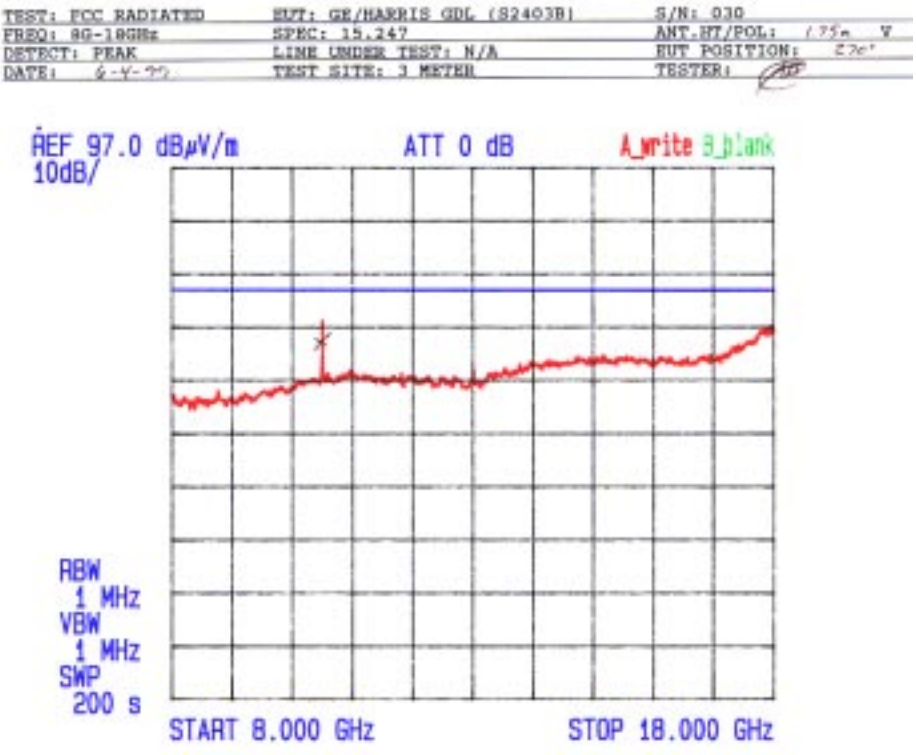

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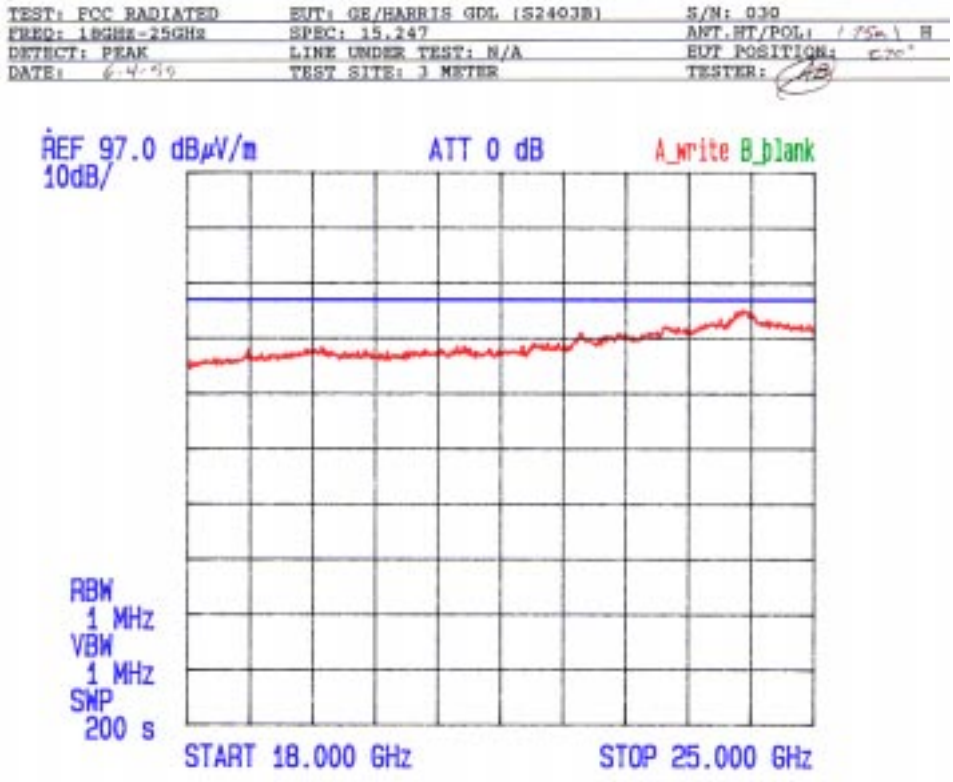

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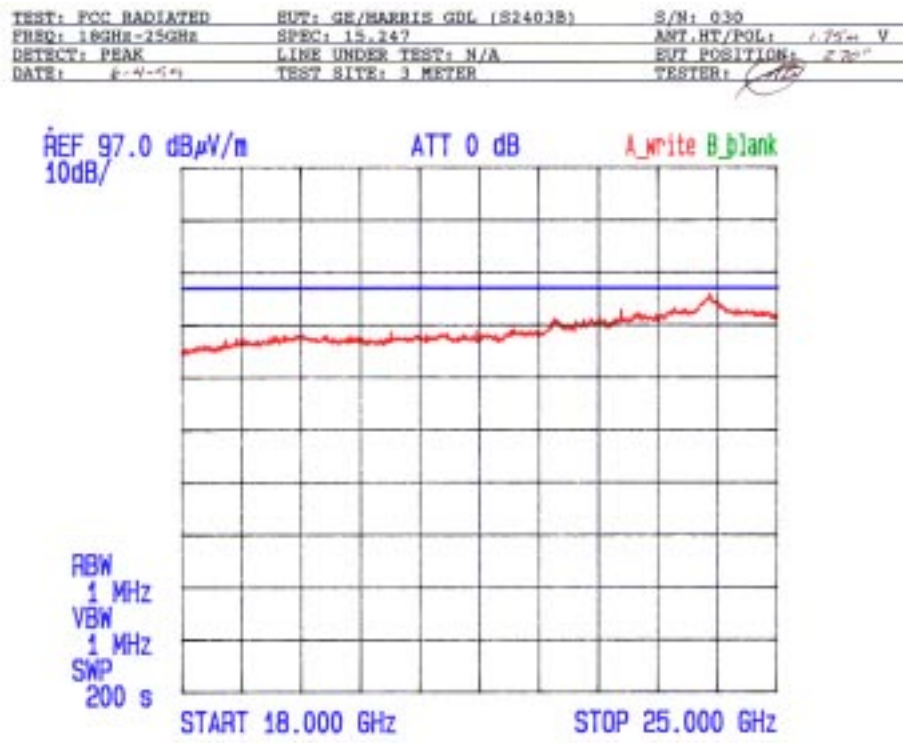
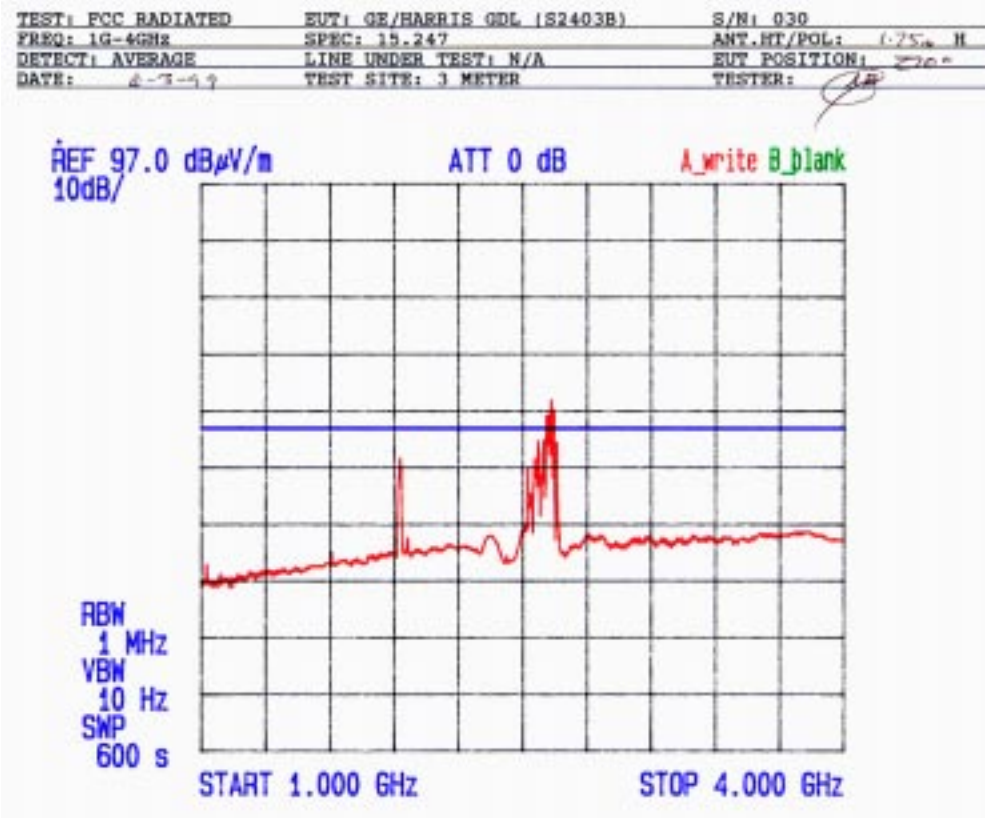


Figure 6.4.3-48: Data Sheet



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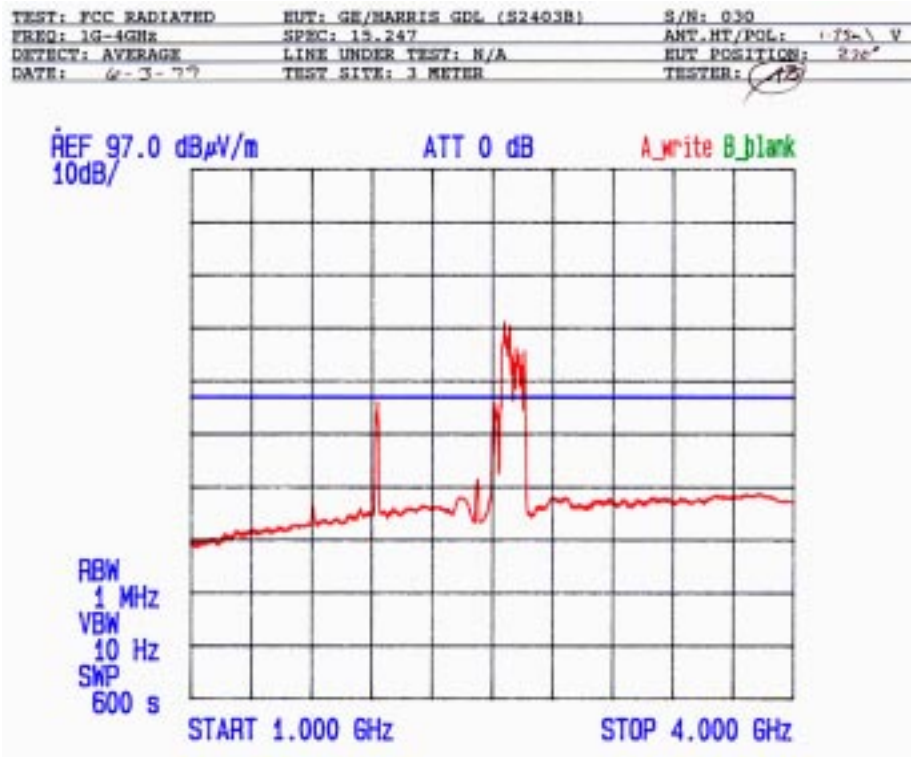
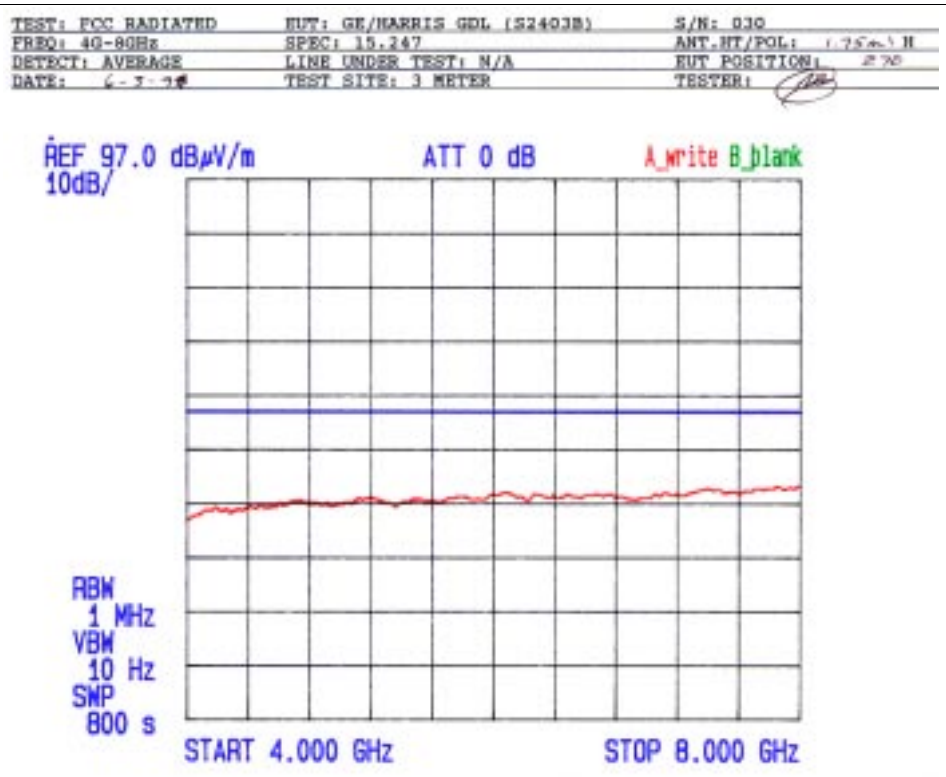


Figure 6.4.3-50: Data Sheet



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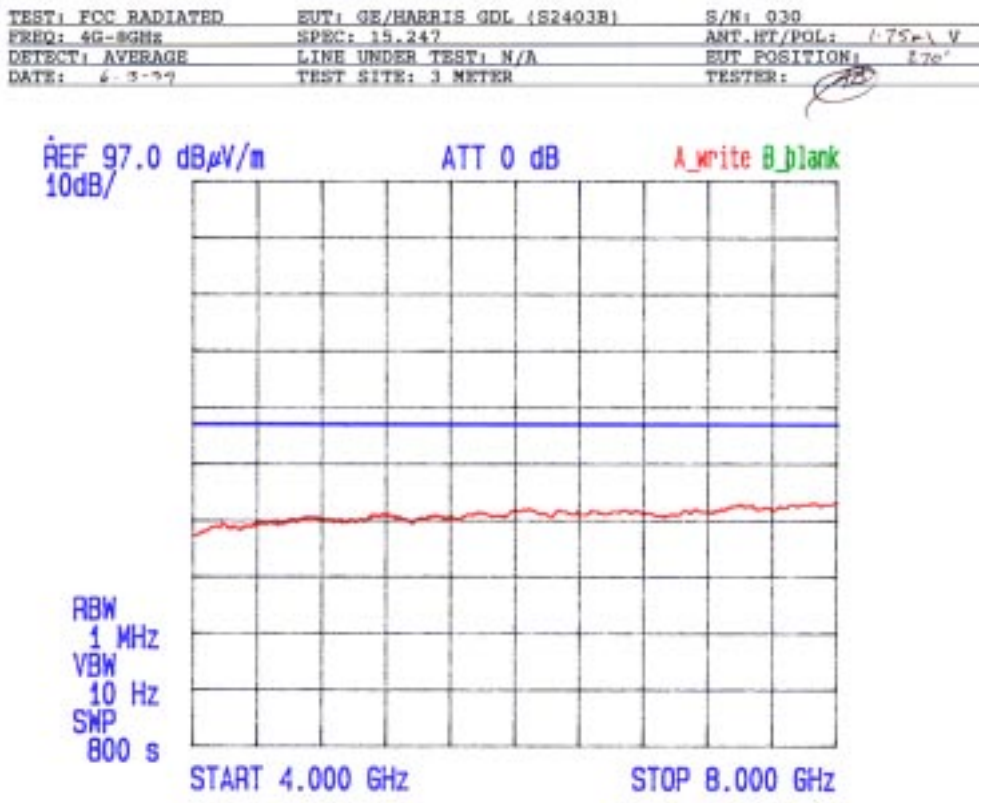
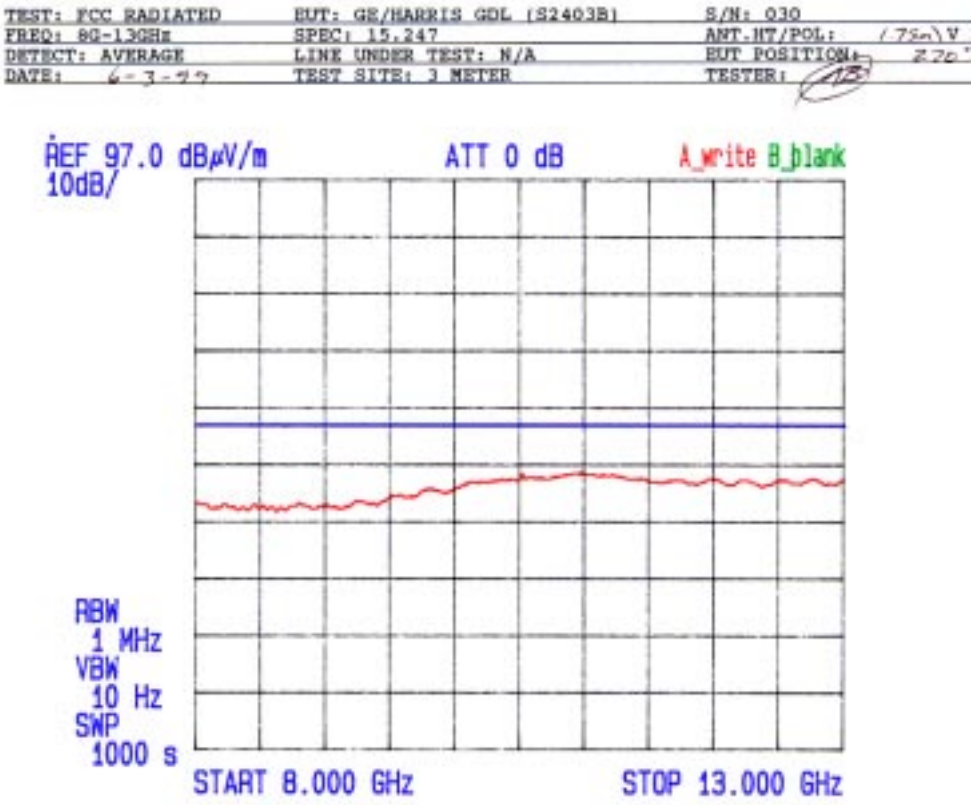


Figure 6.4.3-52: Data Sheet



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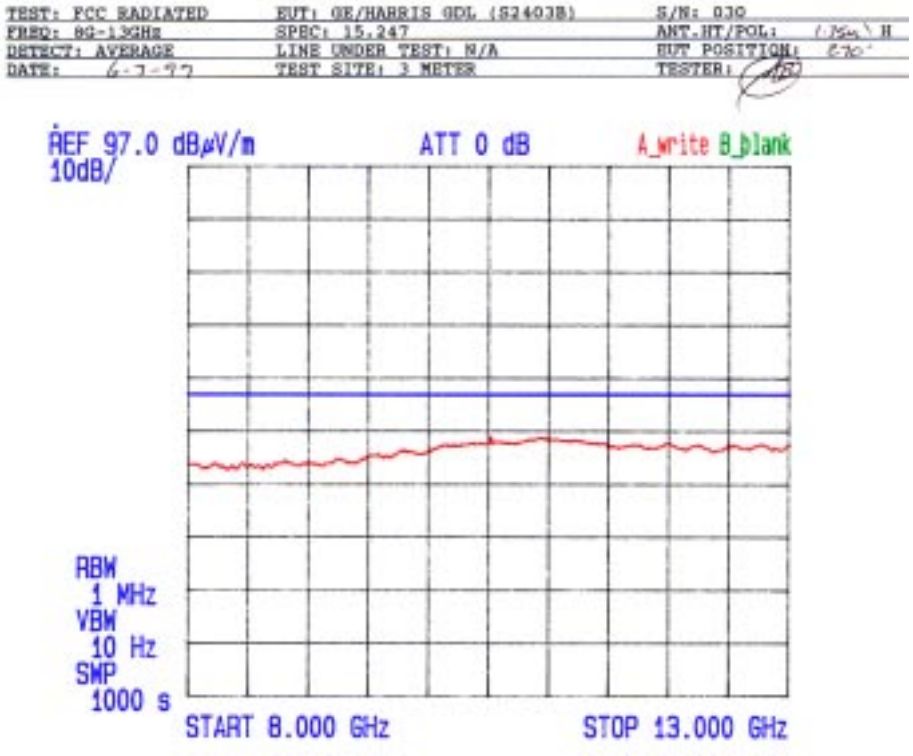
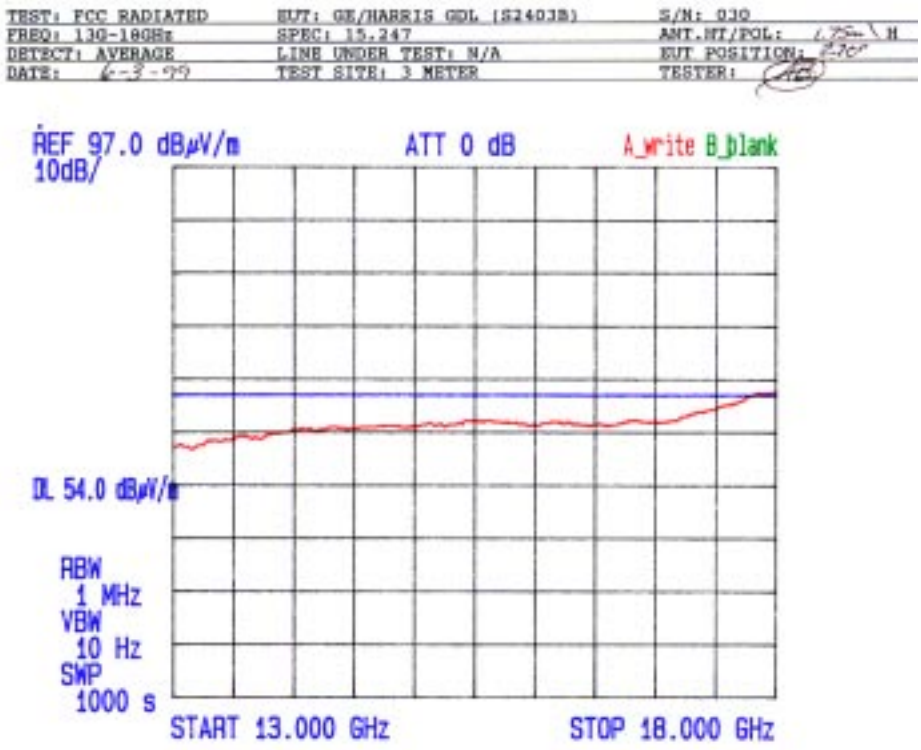


Figure 6.4.3-54: Data Sheet



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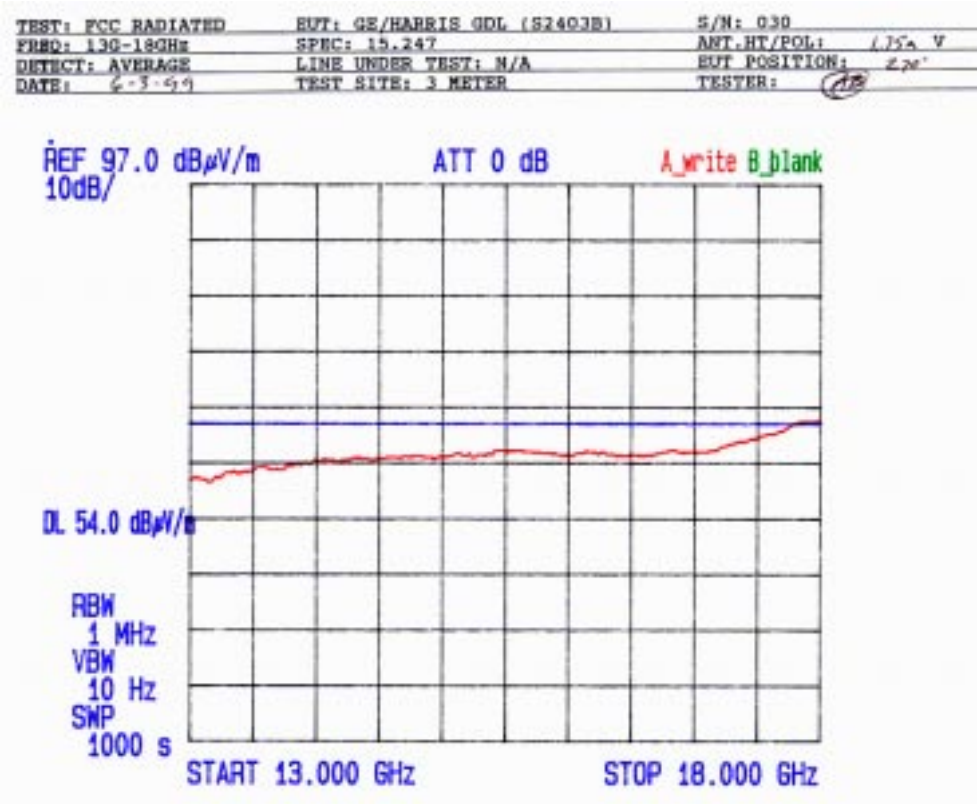
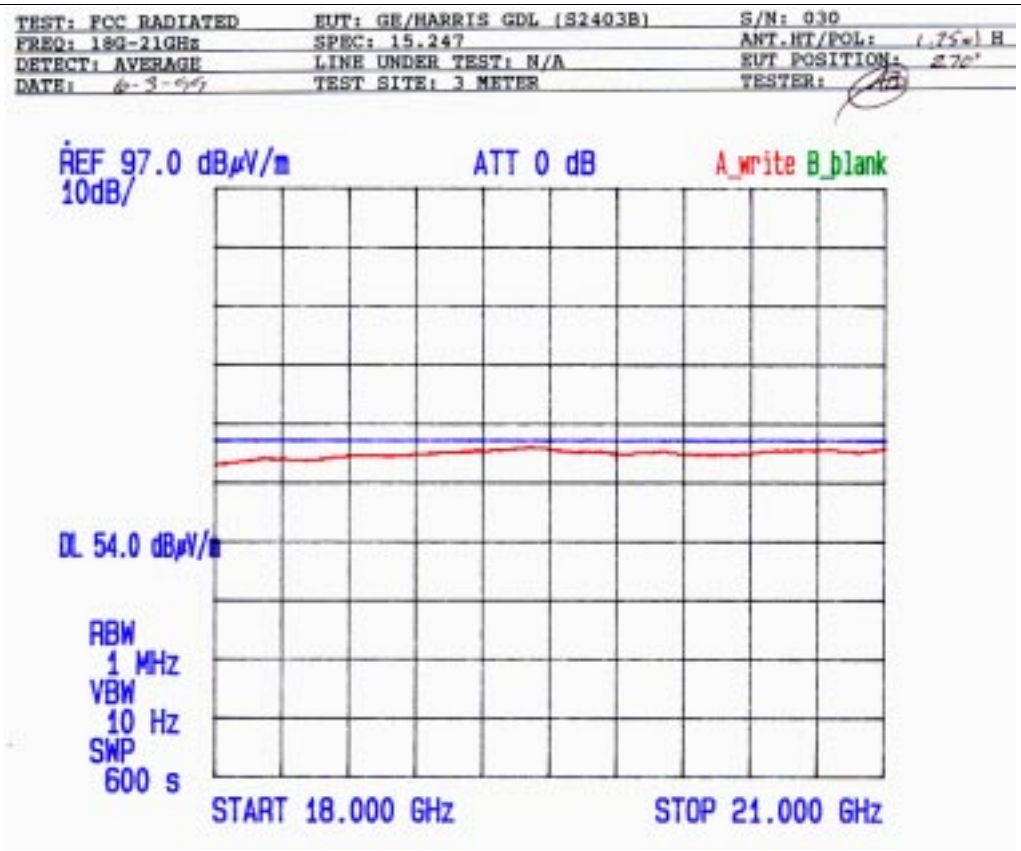


Figure 6.4.3-56: Data Sheet



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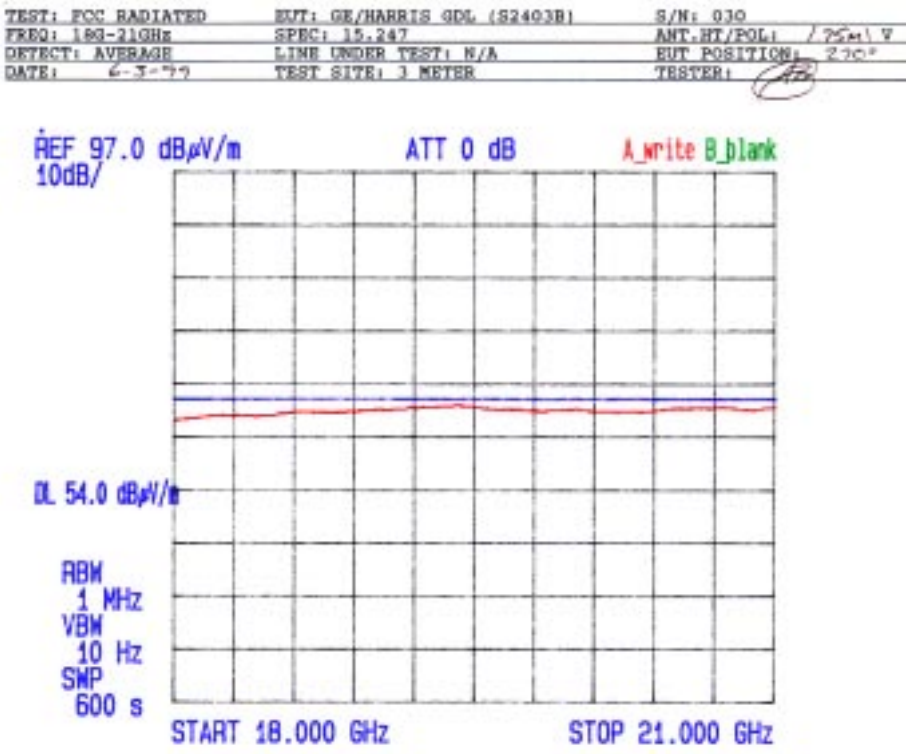

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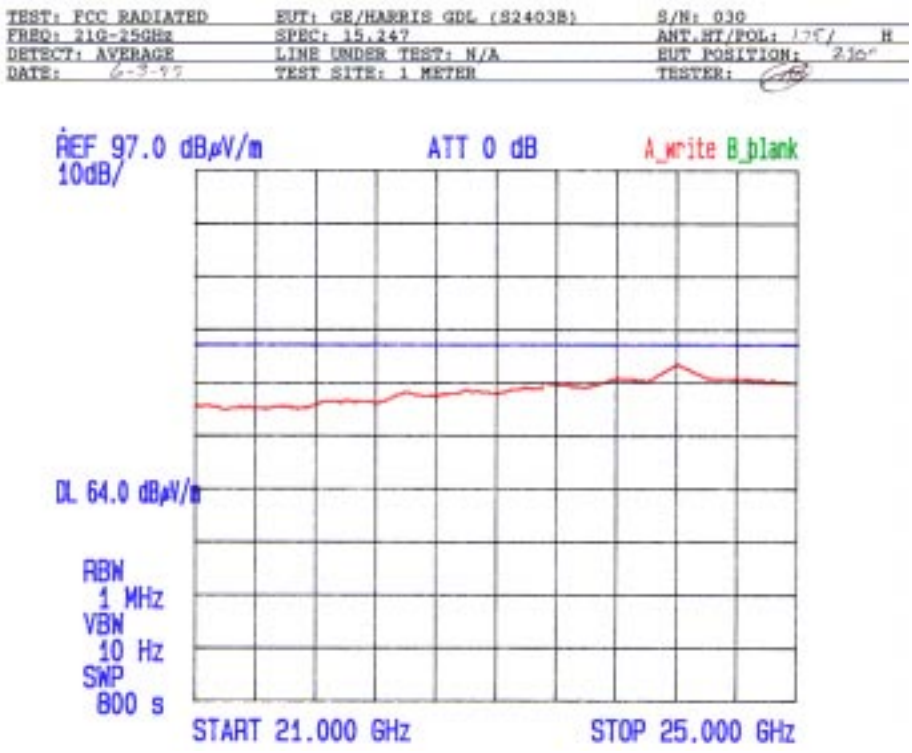
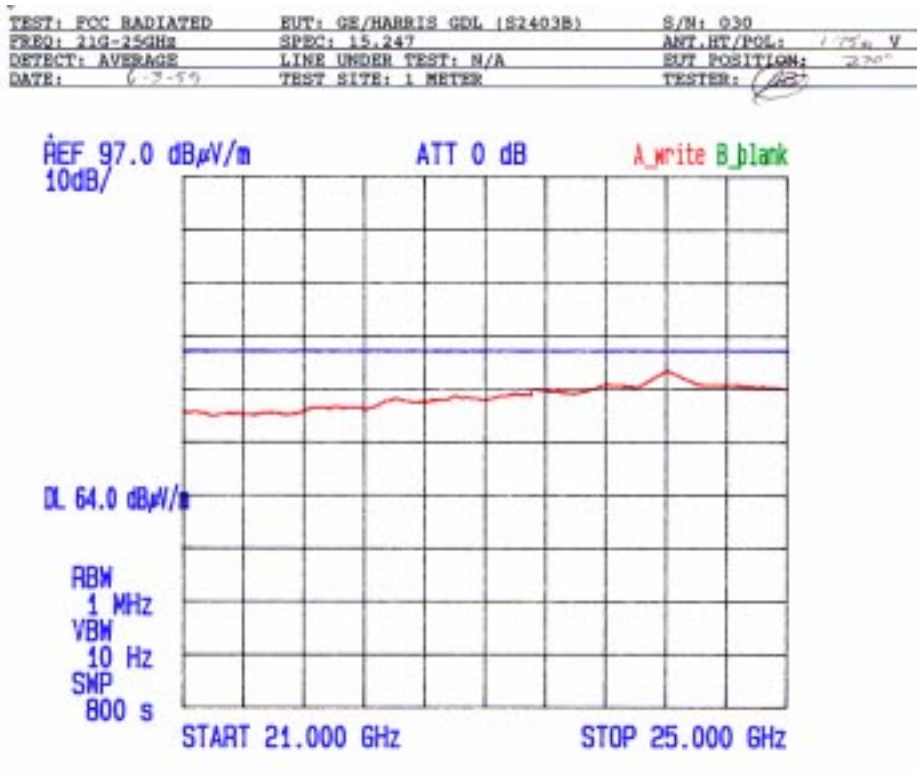


Figure 6.4.3-59: Data Sheet



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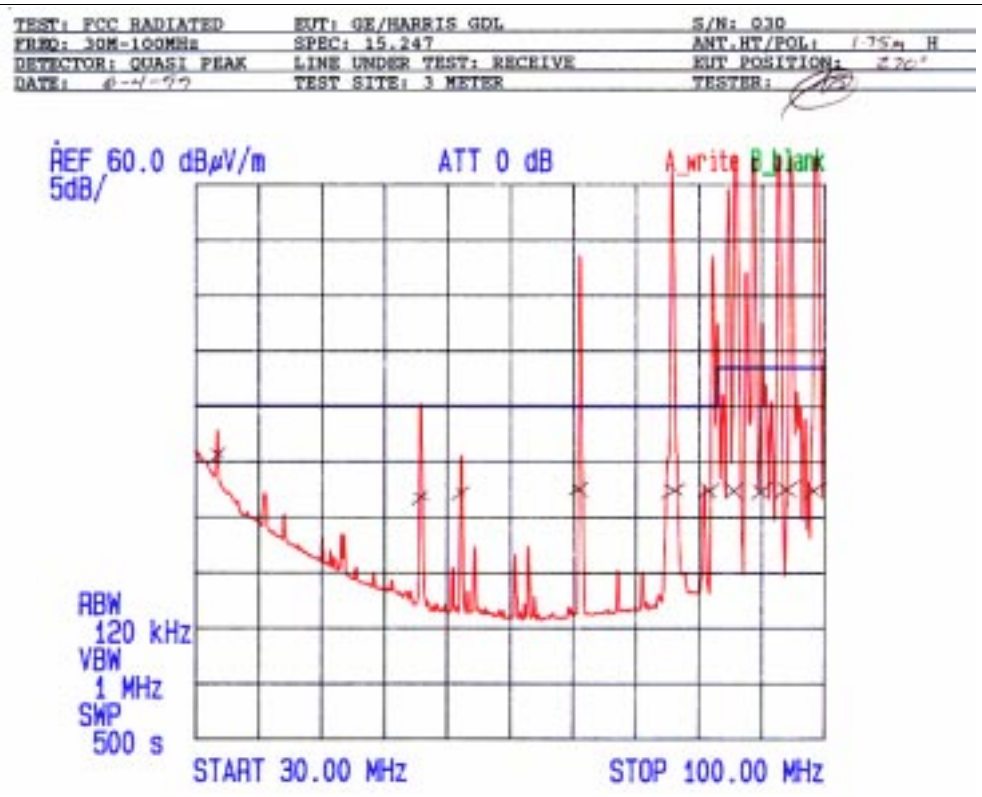


Figure 6.4.3-61: Data Sheet

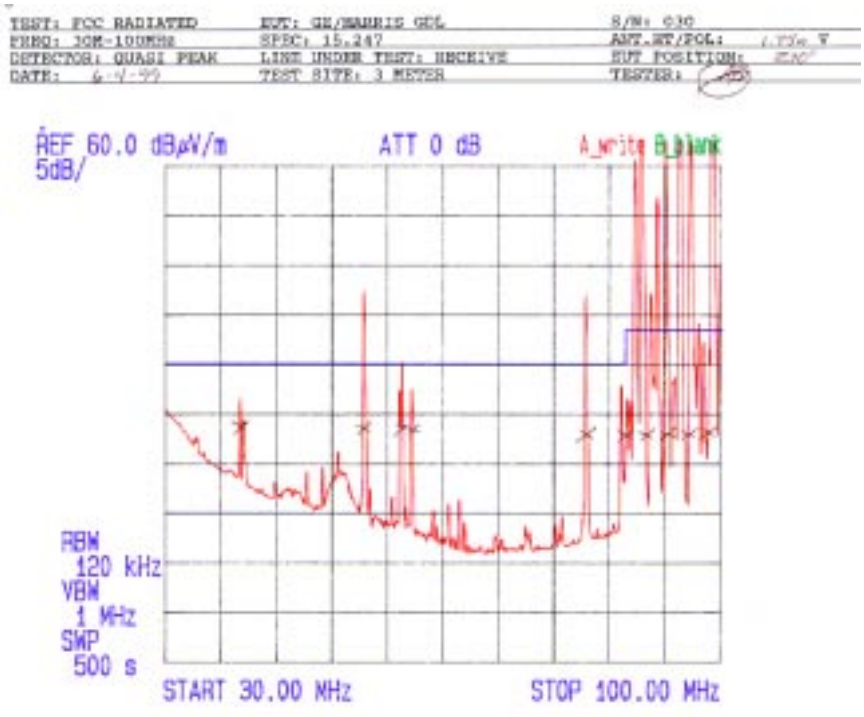


Figure 6.4.3-62: Data Sheet

TEST: FCC RADIATED	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 100M-200MHz	SPEC: 15.247	ANT.HT/POL: (1.75m) H
DETECTOR: QUASI PEAK	LINE UNDER TEST: RECEIVE	EUT POSITION: 270°
DATE: 6-4-99	TEST SITE: 3 METER	TESTER:

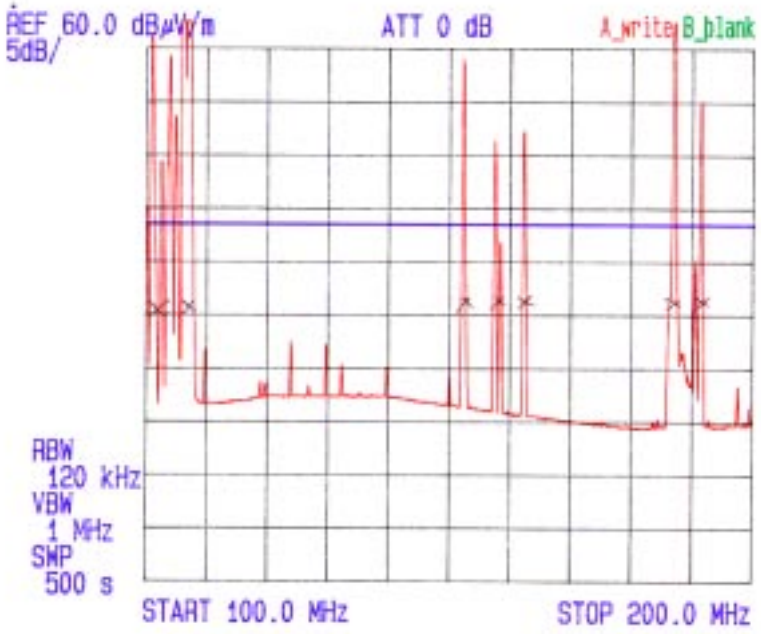


Figure 6.4.3-63: Data Sheet

TEST: FCC RADIATED	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 100M-200MHz	SPEC: 15.247	ANT.HT/POL: (1.75m) V
DETECTOR: QUASI PEAK	LINE UNDER TEST: RECEIVE	EUT POSITION: 270°
DATE: 6-4-99	TEST SITE: 3 METER	TESTER:

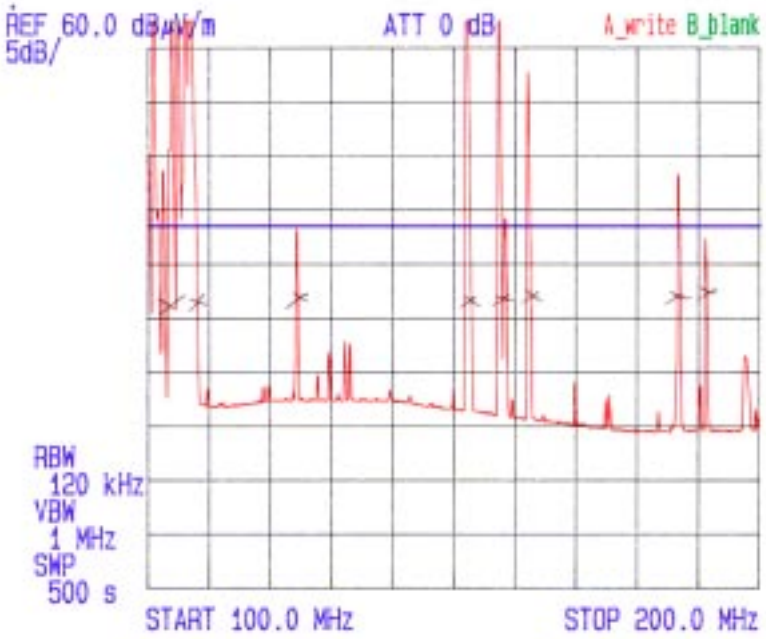


Figure 6.4.3-64: Data Sheet

TEST: FCC RADIATED	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 200M-1GHz	SPEC: 15.247	ANT.HT/POL: 1.75m H
DETECTOR: QUASI PEAK	LINE UNDER TEST: RECEIVE	EUT POSITION: 270°
DATE: 6-4-97	TEST SITE: 3 METER	TESTER:

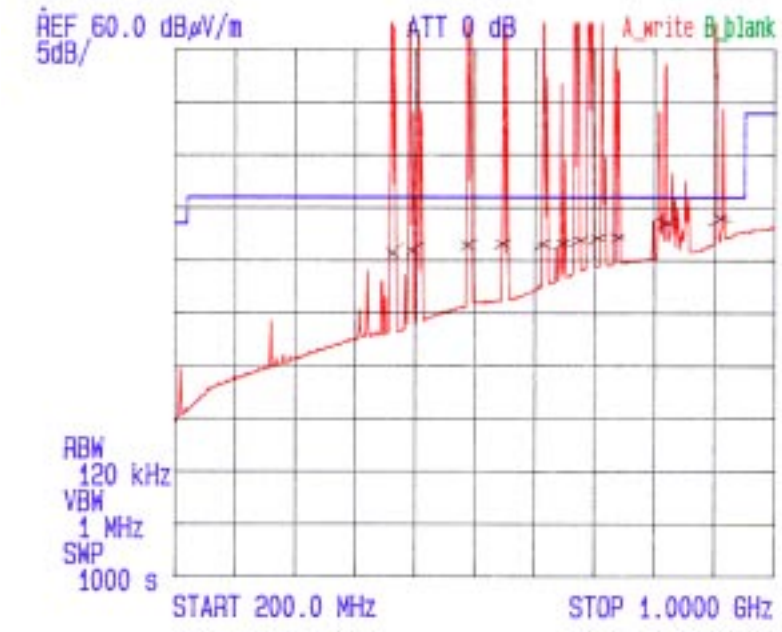


Figure 6.4.3-65: Data Sheet

TEST: FCC RADIATED	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 200M-1GHz	SPEC: 15.247	ANT.HT/POL: 1.75m V
DETECTOR: QUASI PEAK	LINE UNDER TEST: RECEIVE	EUT POSITION: 270°
DATE: 6-4-97	TEST SITE: 3 METER	TESTER:

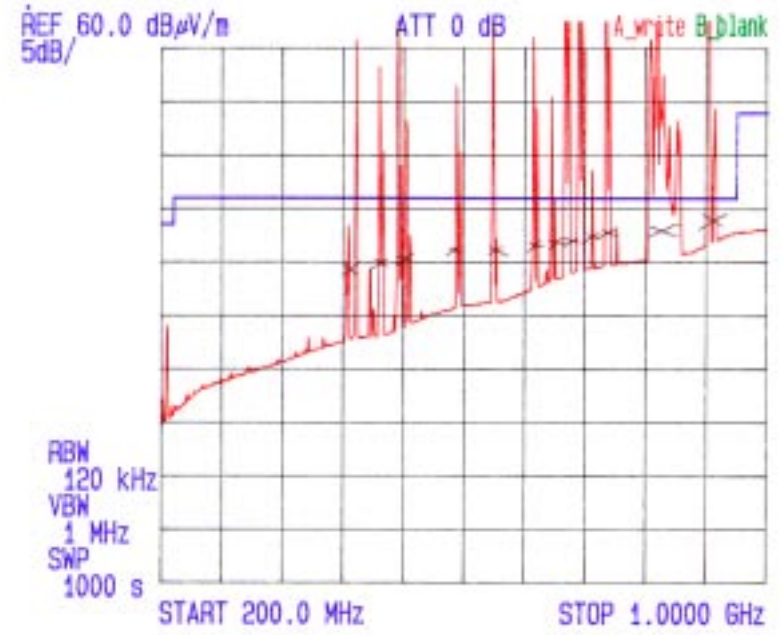


Figure 6.4.3-66: Data Sheet

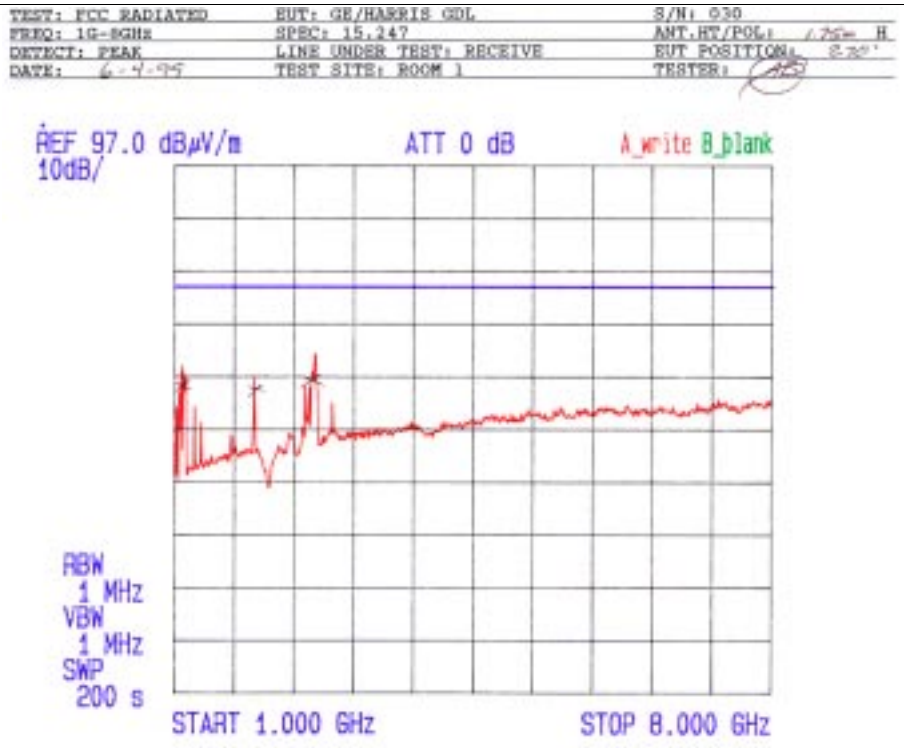


Figure 6.4.3-67: Data Sheet

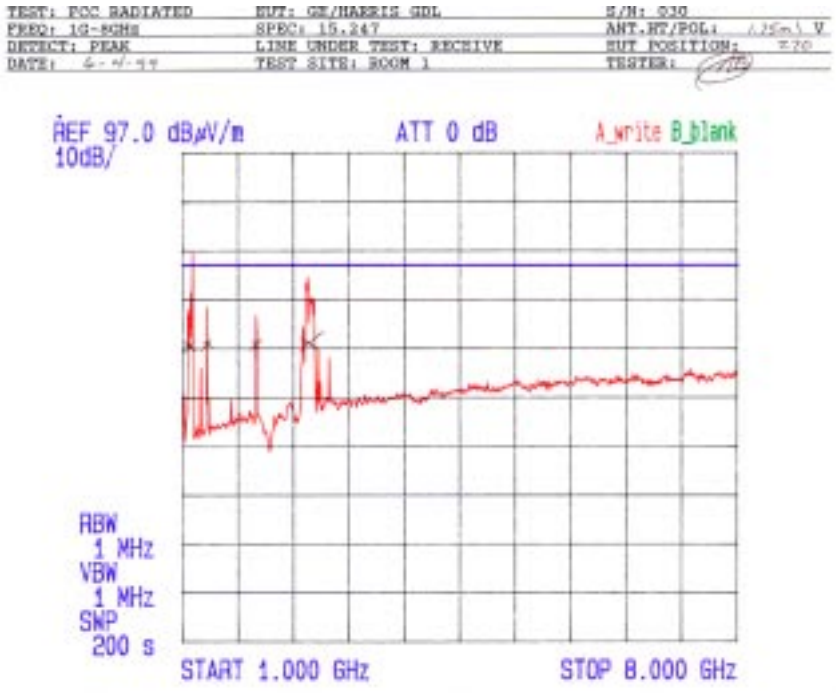


Figure 6.4.3-68: Data Sheet

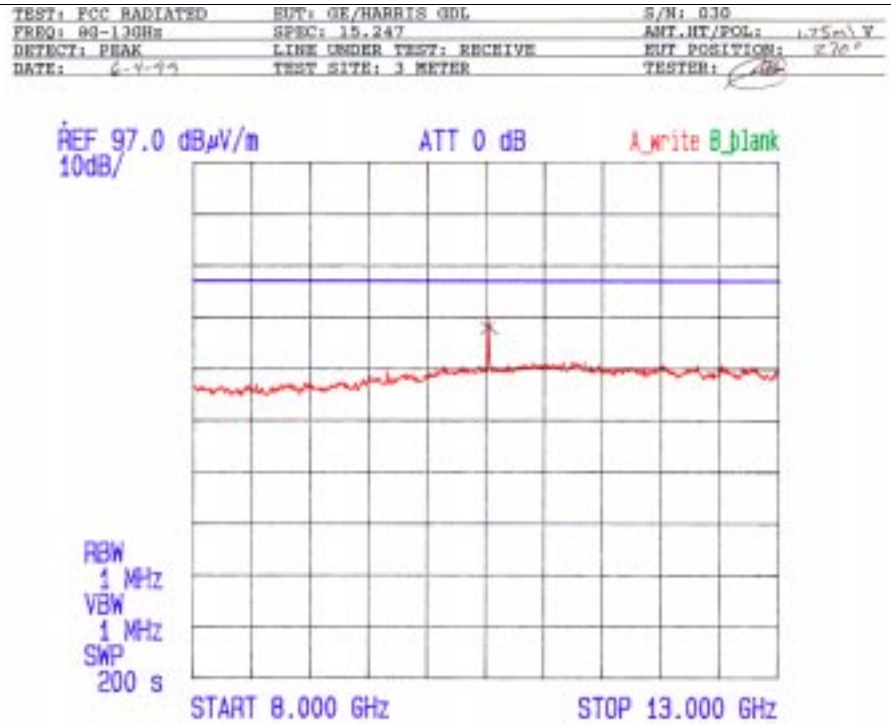


Figure 6.4.3-69: Data Sheet

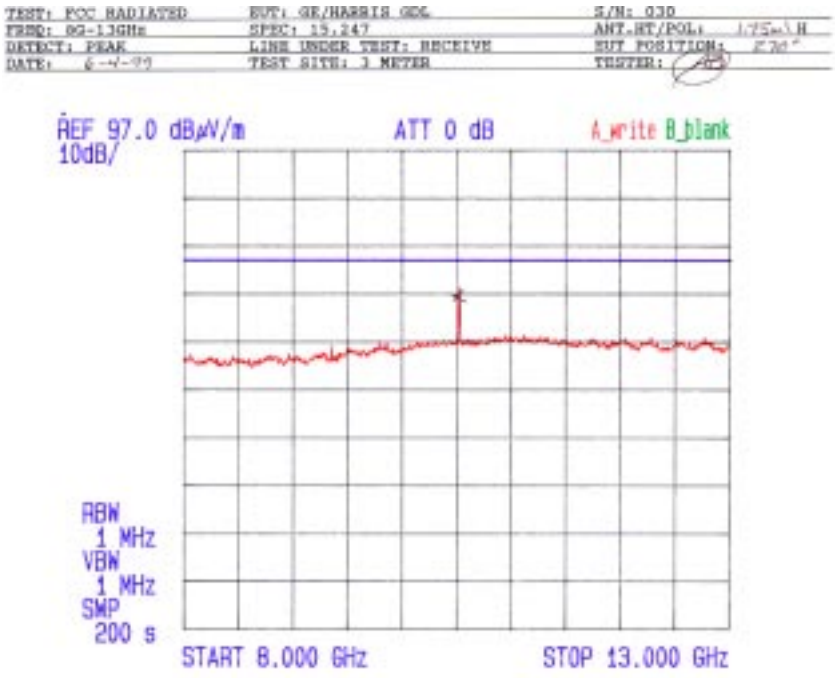


Figure 6.4.3-70: Data Sheet

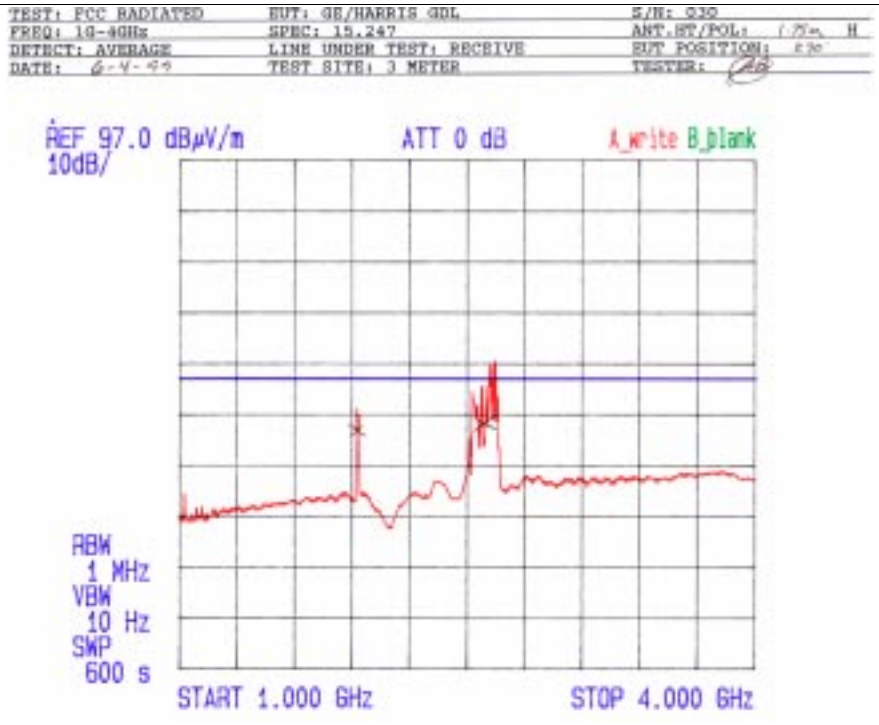


Figure 6.4.3-71: Data Sheet

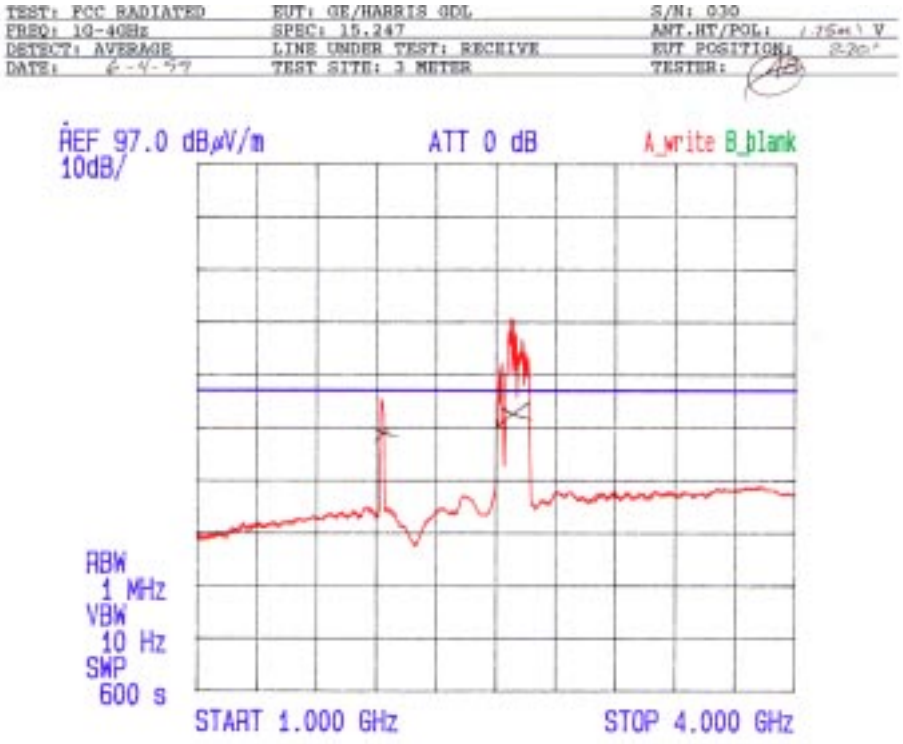


Figure 6.4.3-72: Data Sheet

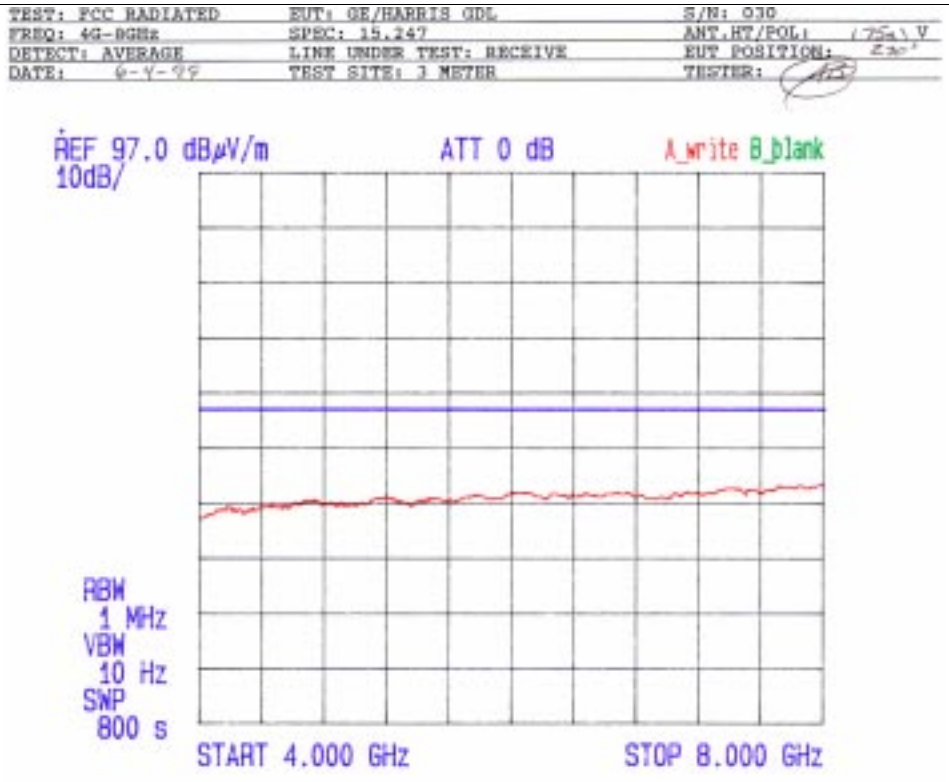


Figure 6.4.3-73: Data Sheet

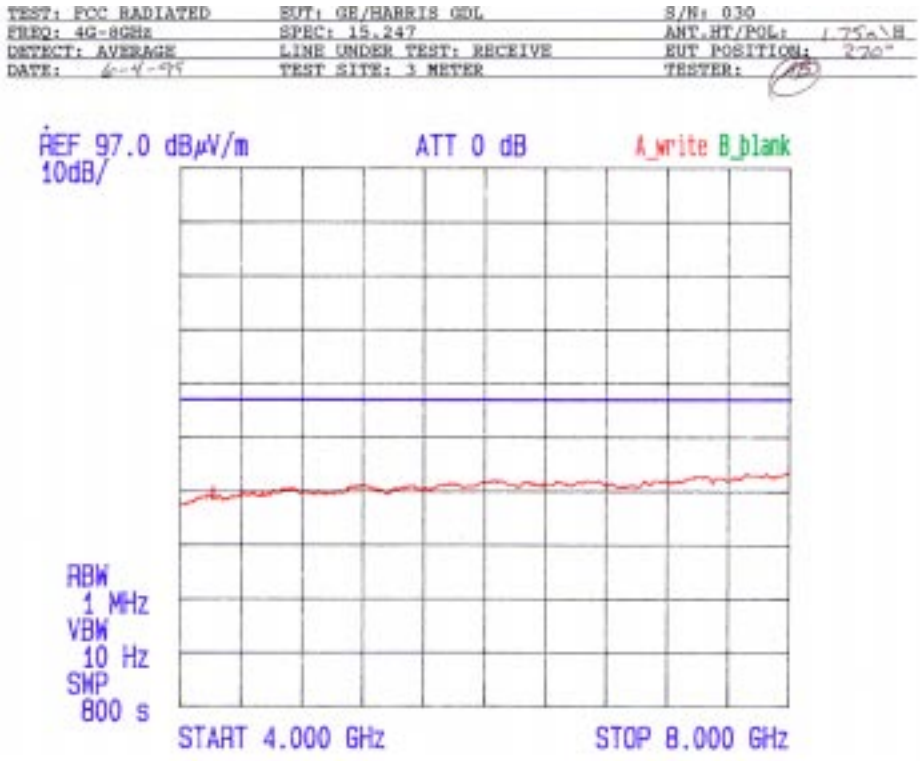


Figure 6.4.3-74: Data Sheet

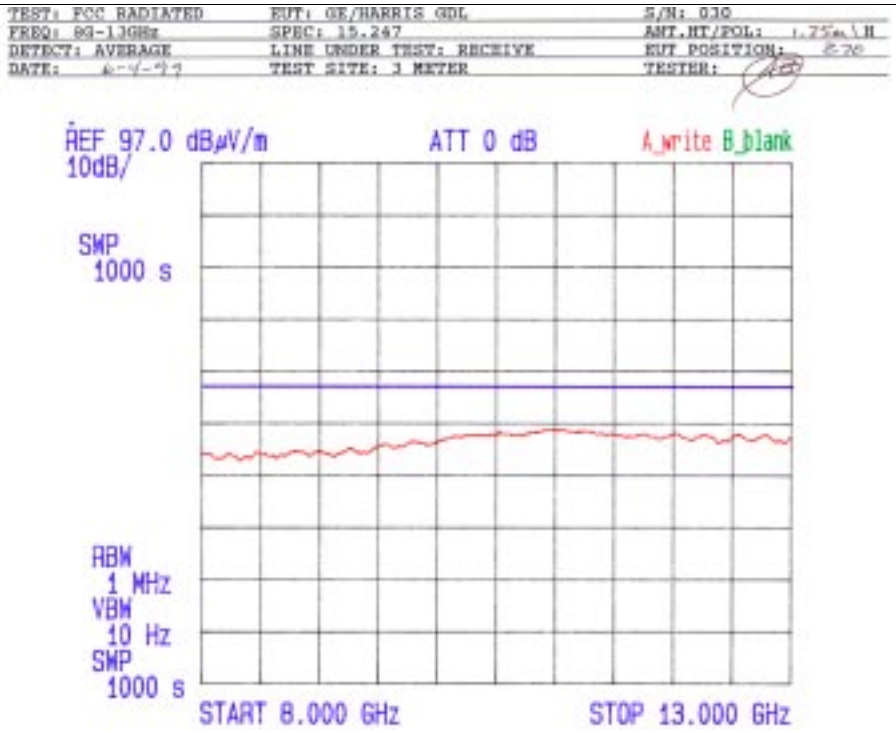


Figure 6.4.3-75: Data Sheet

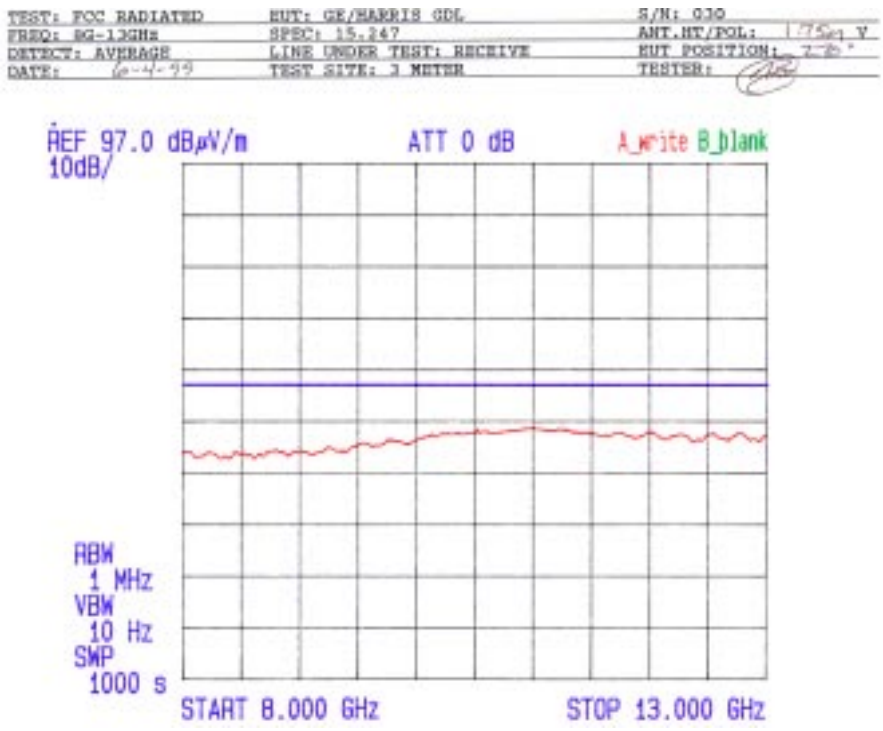


Figure 6.4.3-76: Data Sheet

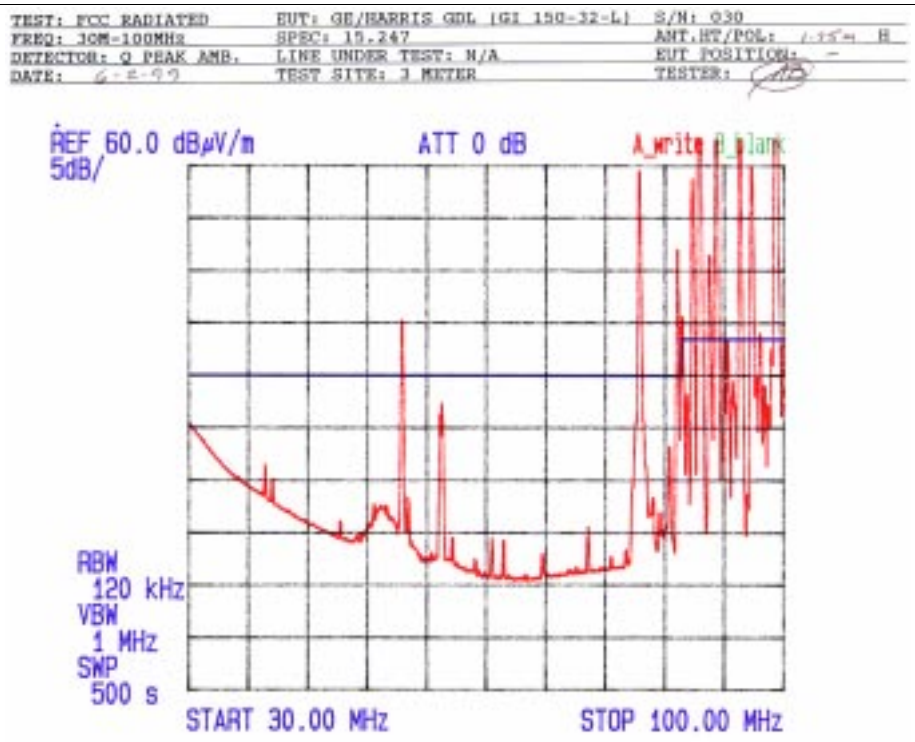


Figure 6.4.4-1: Data Sheet

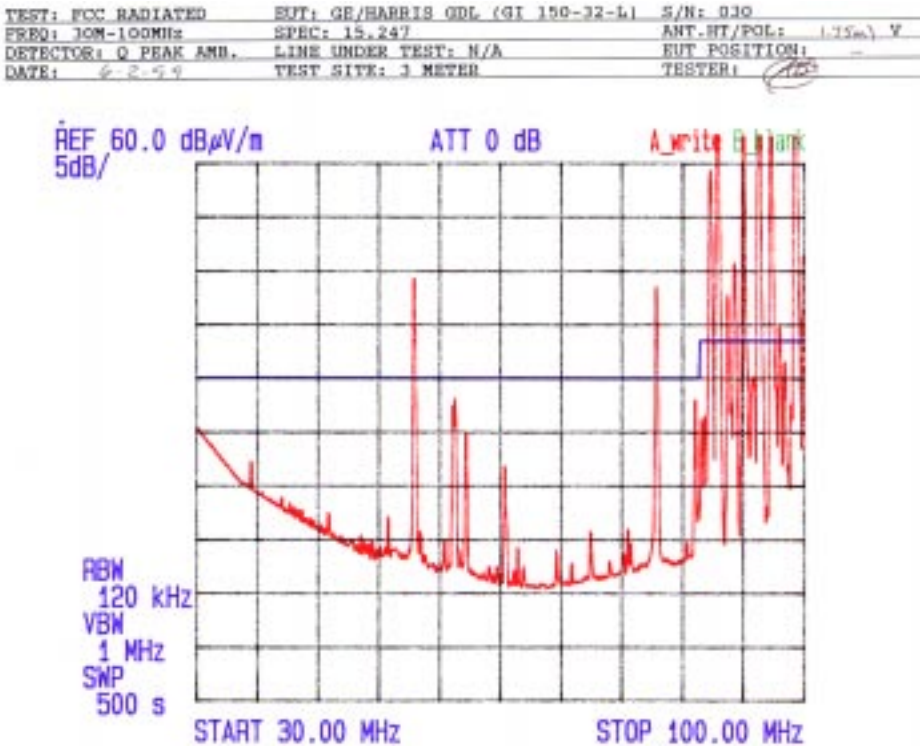


Figure 6.4.4-2: Data Sheet

TEST: FCC RADIATED	EUT: GE/HARRIS GDL (GI 150-32-L)	S/N: 030
FREQ: 100M-200MHz	SPEC: 15.247	ANT.HT/POL: 1.75m \ H
DETECTOR: Q PEAK AMB.	LINE UNDER TEST: N/A	EUT POSITION: –
DATE: 6-2-99	TEST SITE: 3 METER	TESTER:

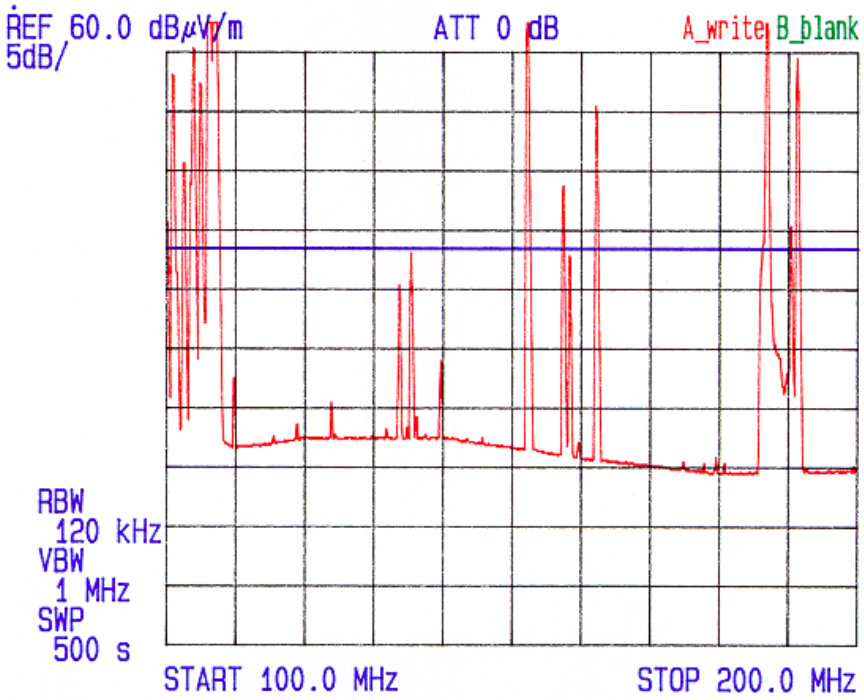


Figure 6.4.4-3: Data Sheet

TEST: FCC RADIATED	EUT: GE/HARRIS GDL (GI 150-32-L)	S/N: 030
FREQ: 100M-200MHz	SPEC: 15.247	ANT.HT/POL: 1.75m \ V
DETECTOR: Q PEAK AMB.	LINE UNDER TEST: N/A	EUT POSITION: –
DATE: 6-2-99	TEST SITE: 3 METER	TESTER:

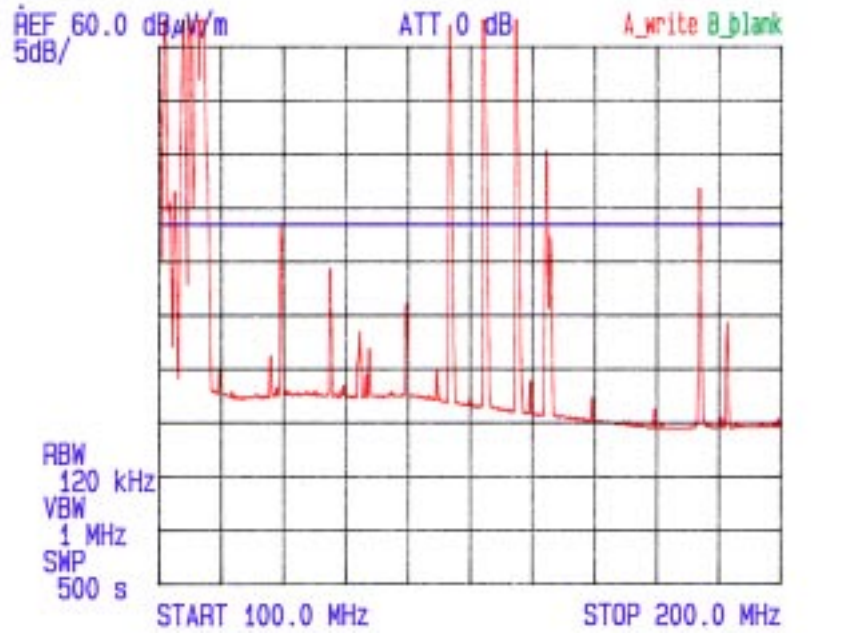


Figure 6.4.4-4: Data Sheet

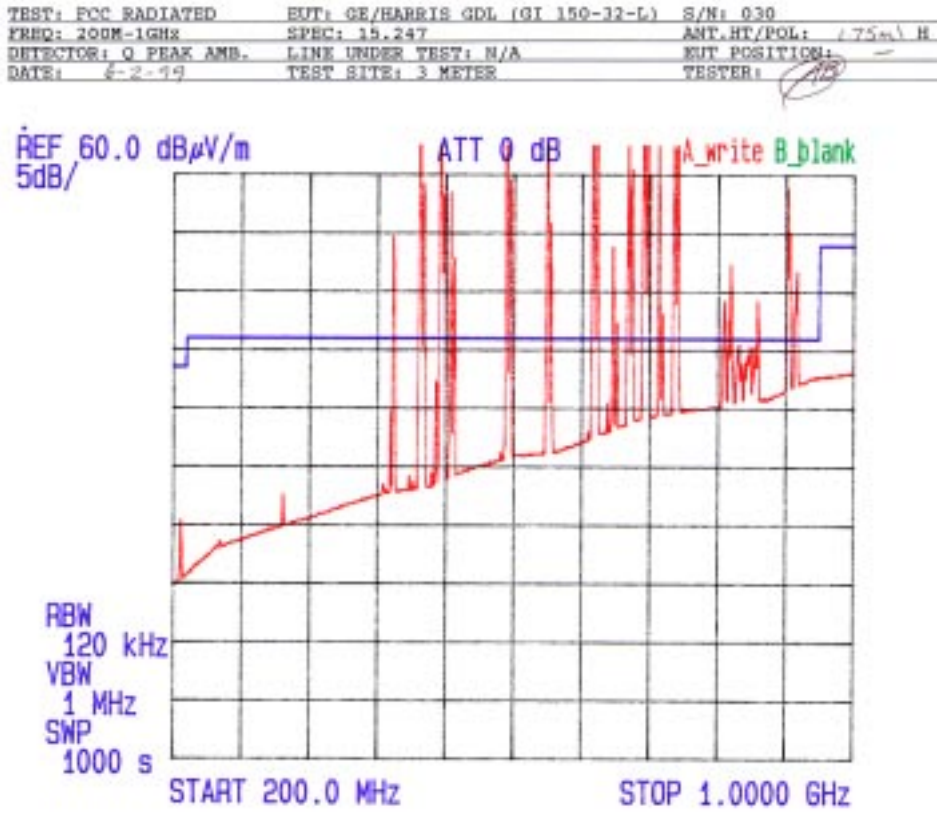


Figure 6.4.4-5: Data Sheet

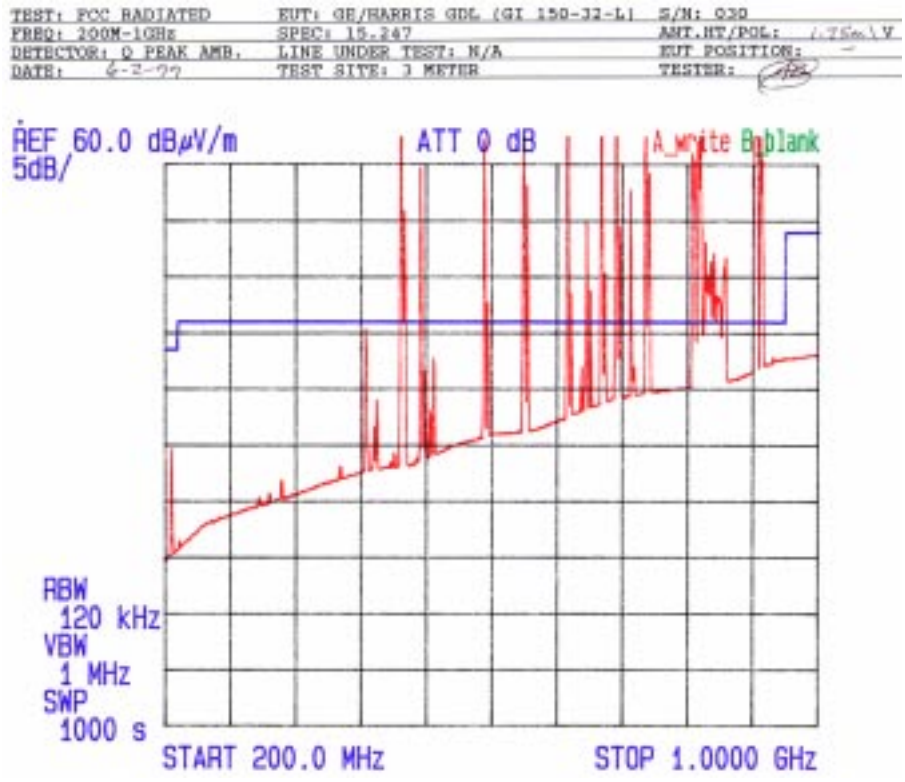


Figure 6.4.4-6: Data Sheet

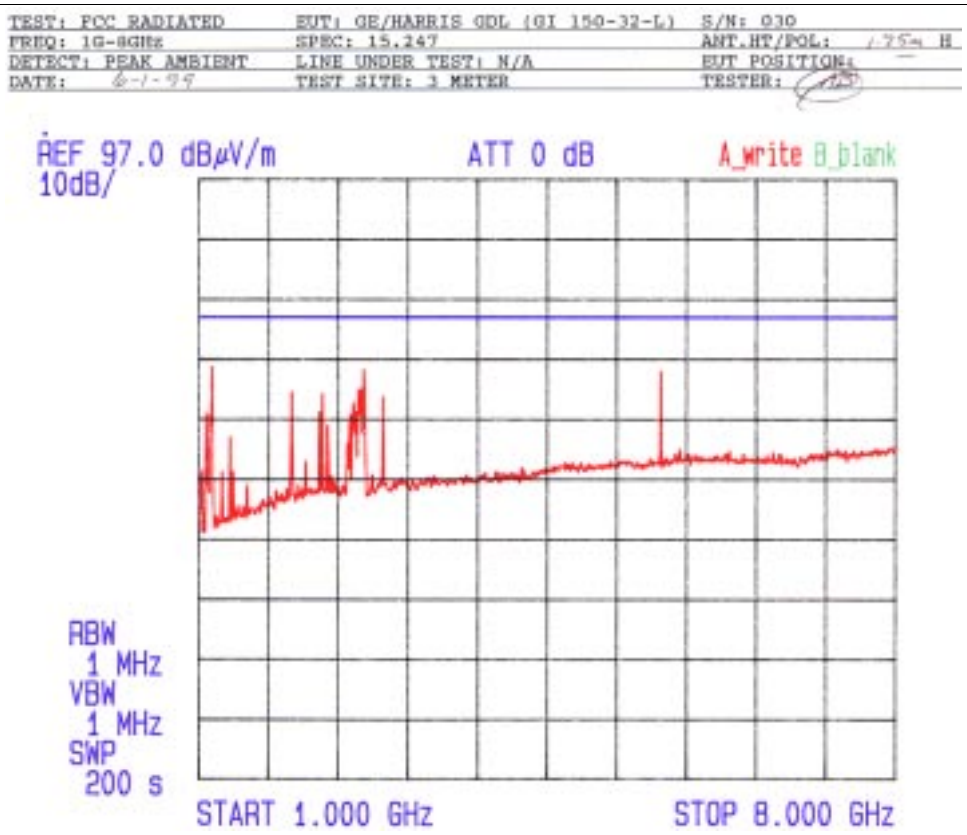


Figure 6.4.4-7: Data Sheet

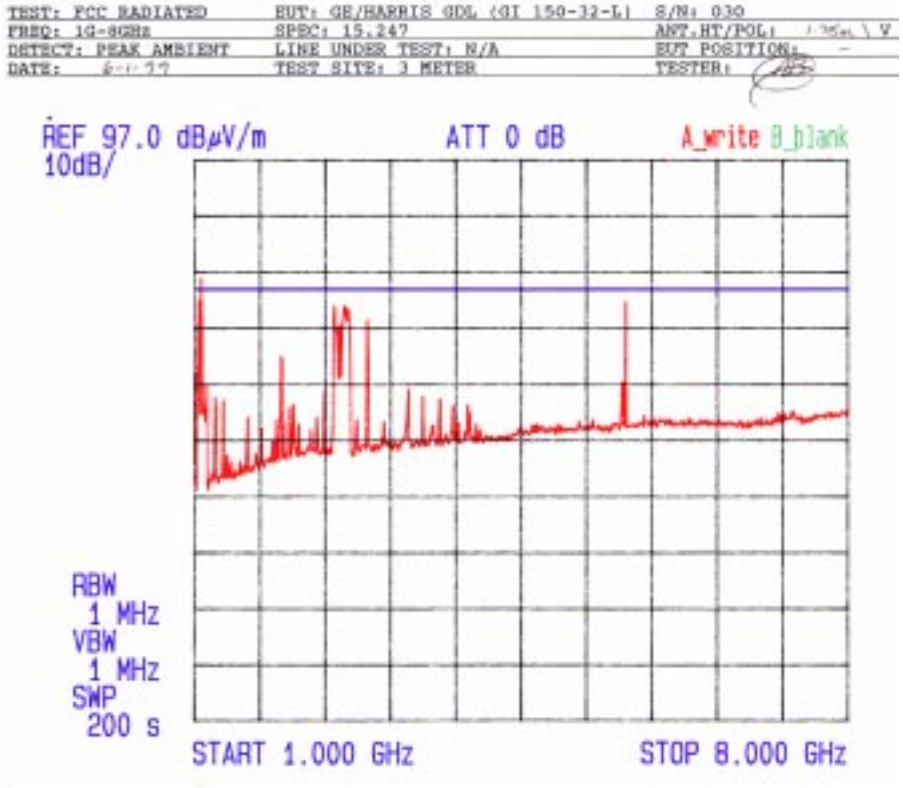


Figure 6.4.4-8: Data Sheet

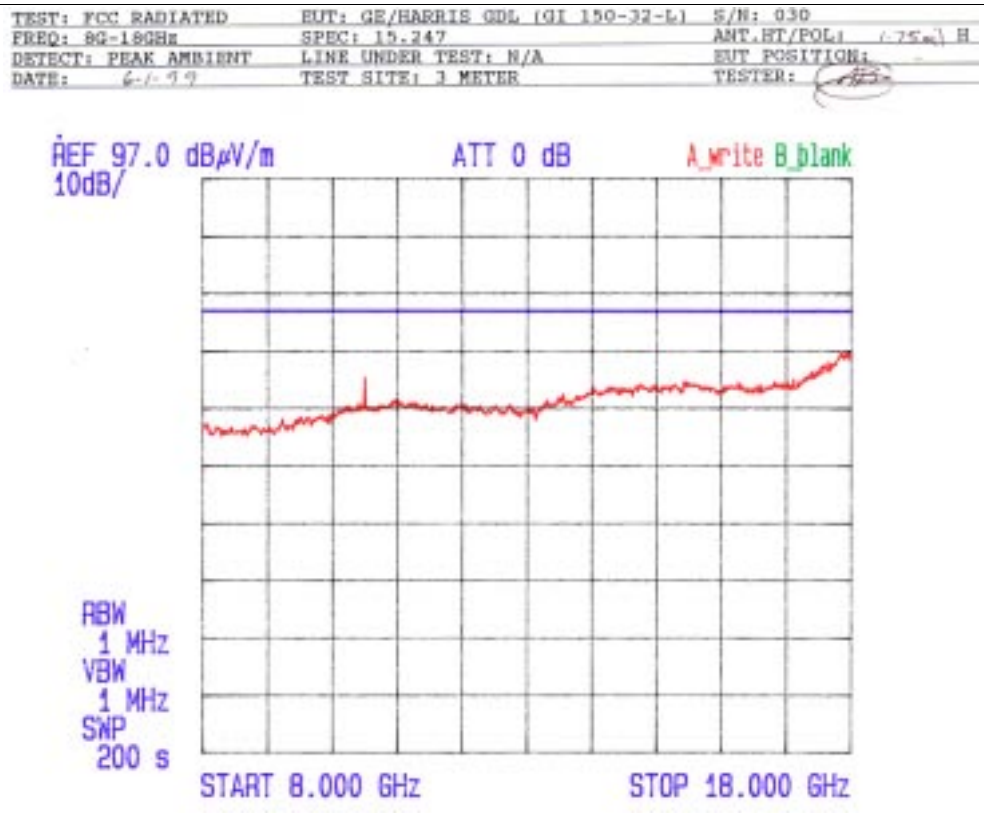


Figure 6.4.4-9: Data Sheet

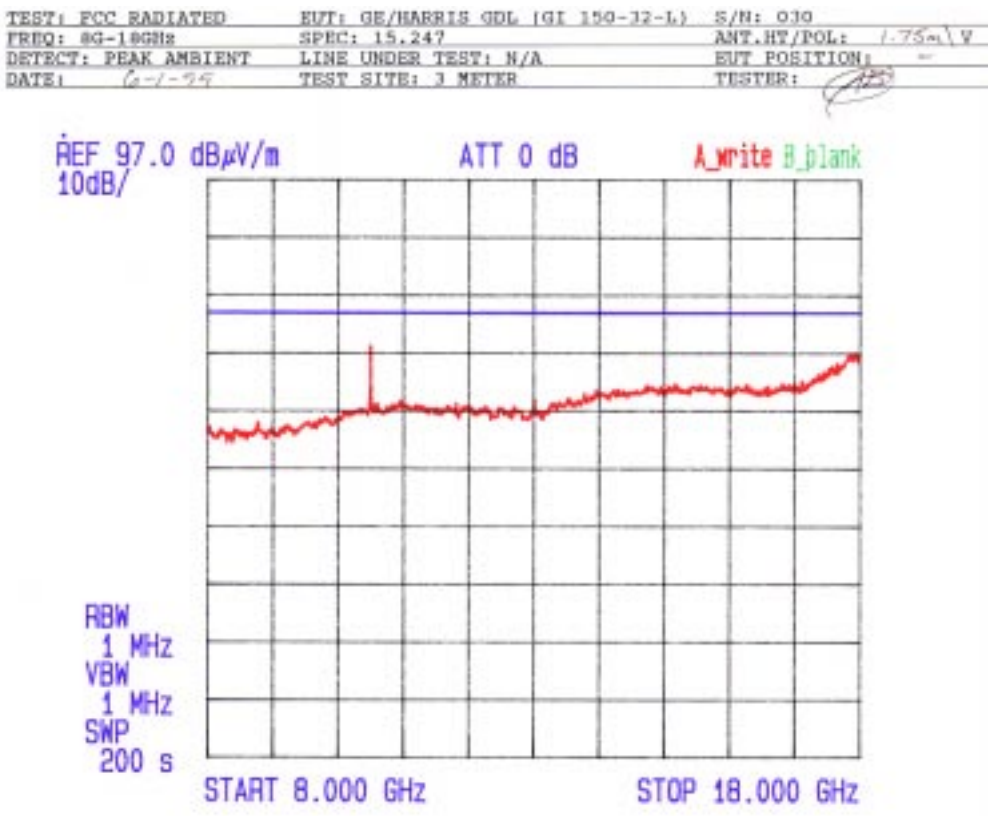


Figure 6.4.4-10: Data Sheet

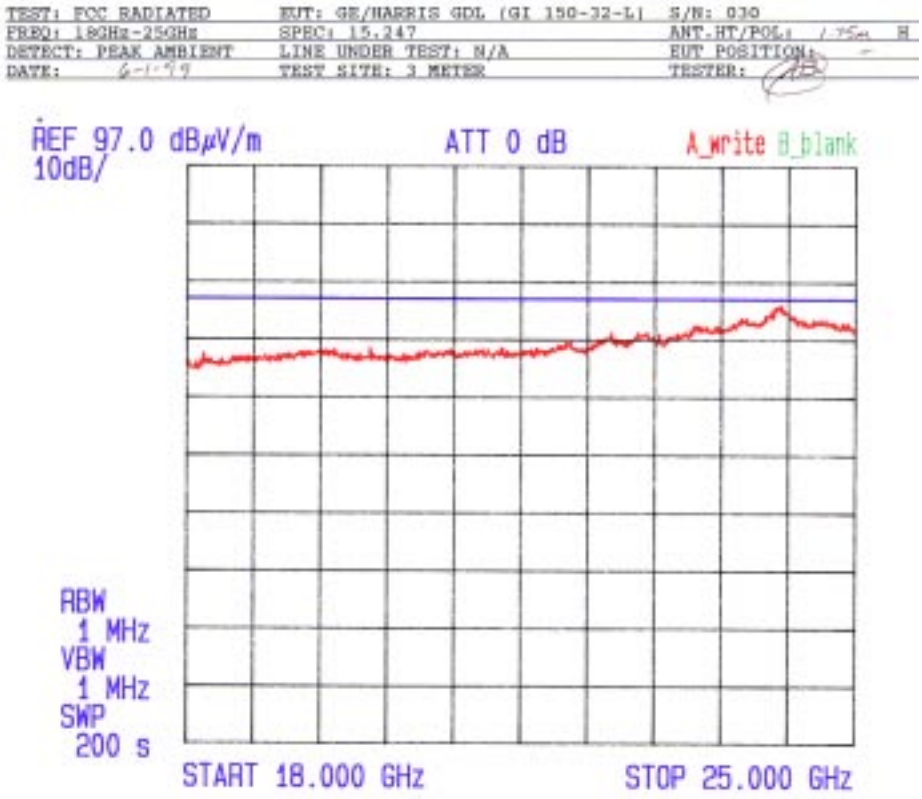


Figure 6.4.4-11: Data Sheet

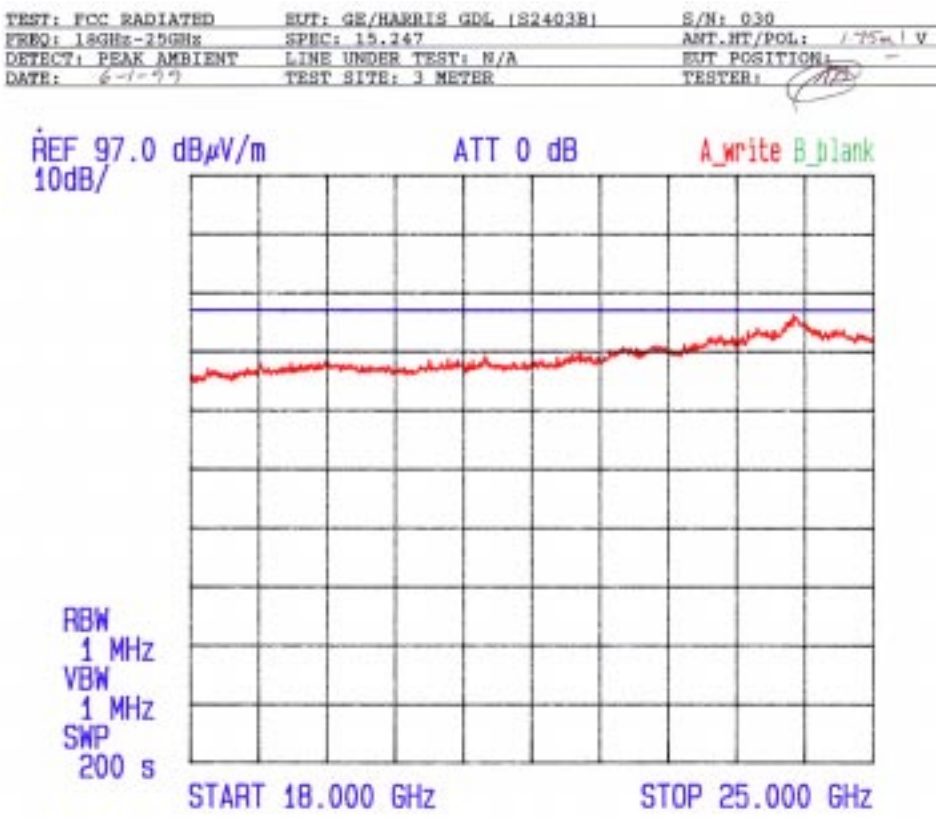


Figure 6.4.4-12: Data Sheet

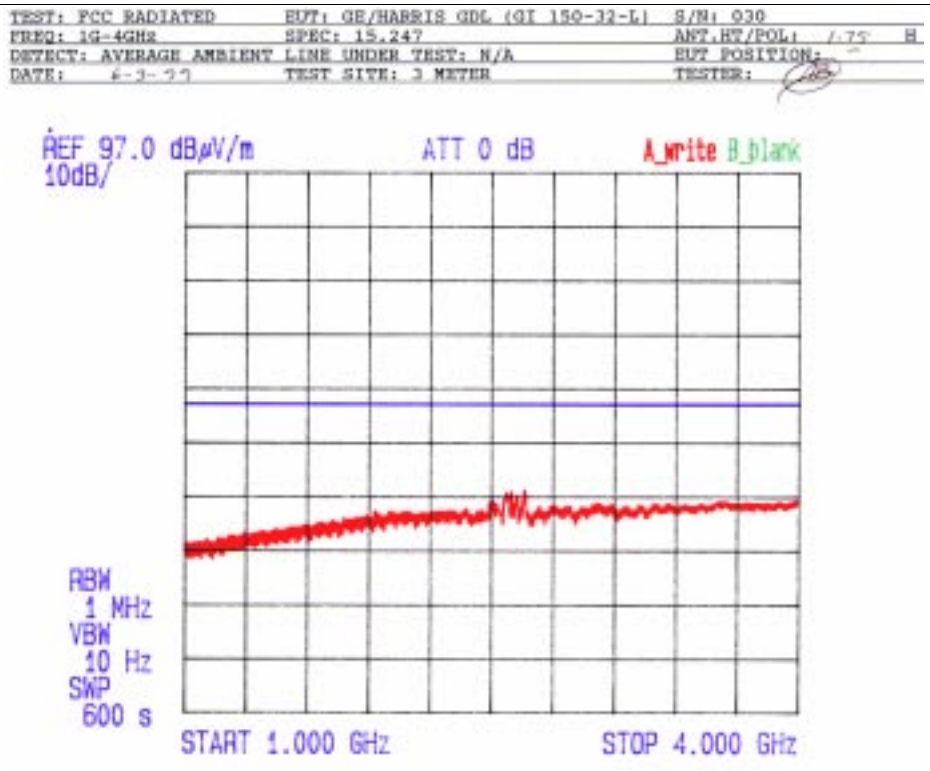


Figure 6.4.4-13: Data Sheet

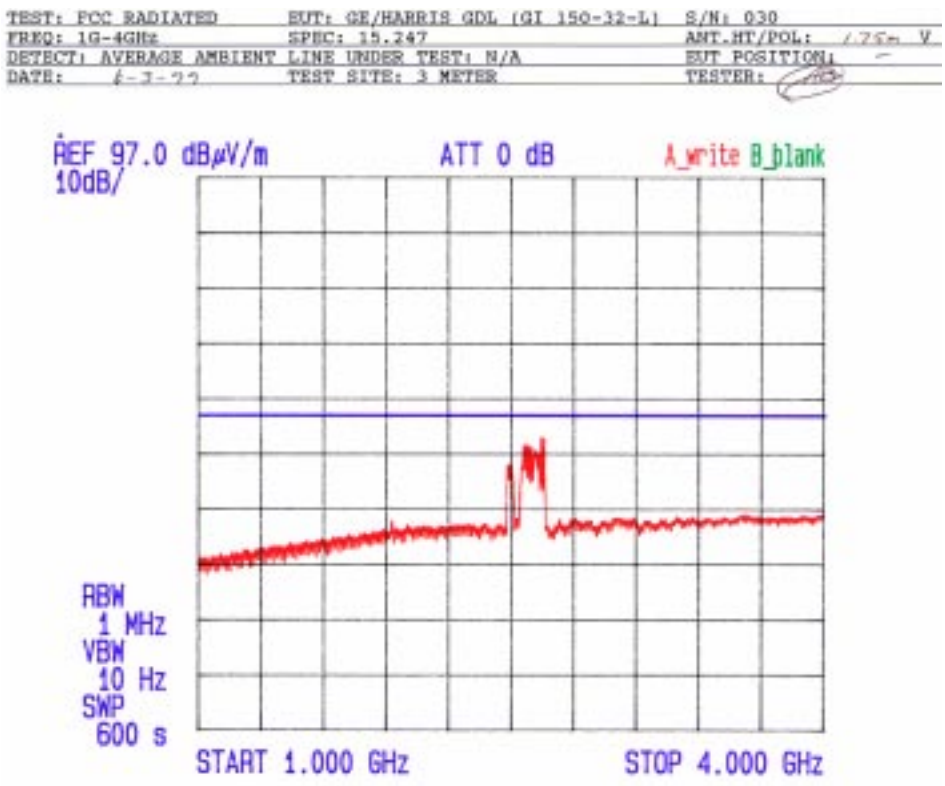


Figure 6.4.4-14: Data Sheet

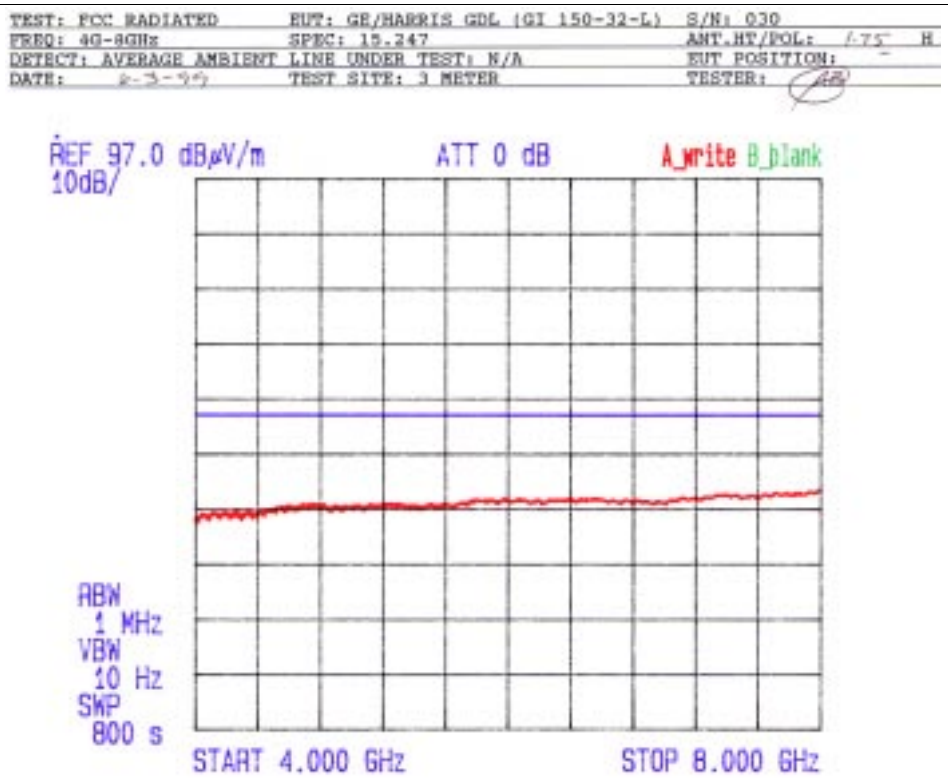


Figure 6.4.4-15: Data Sheet

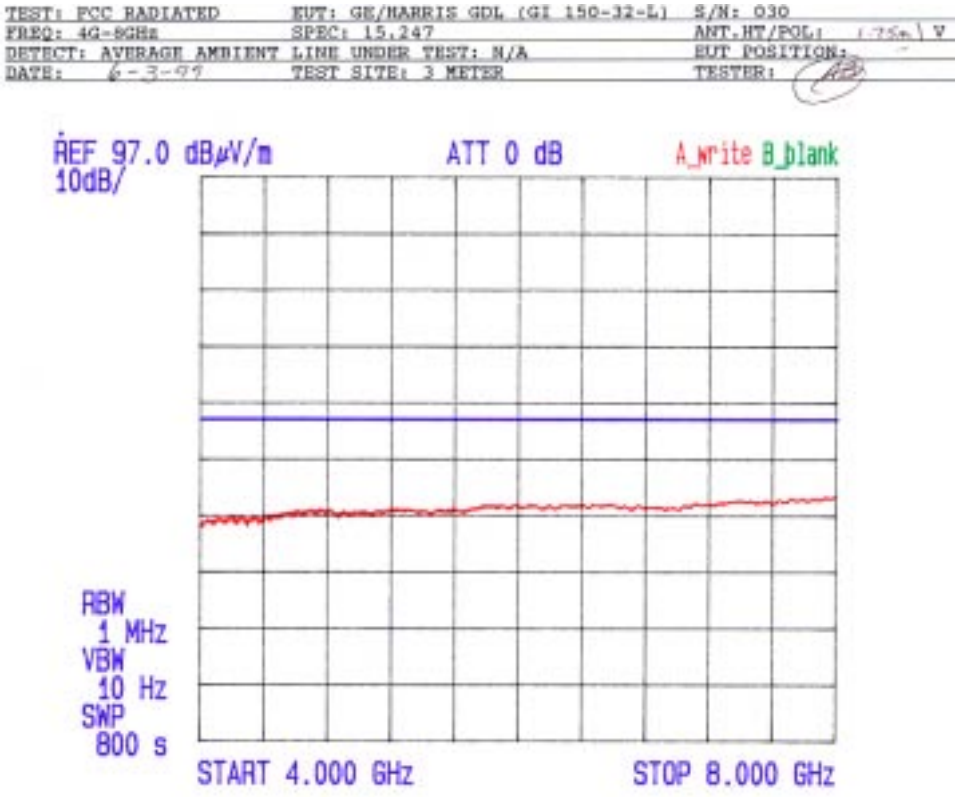
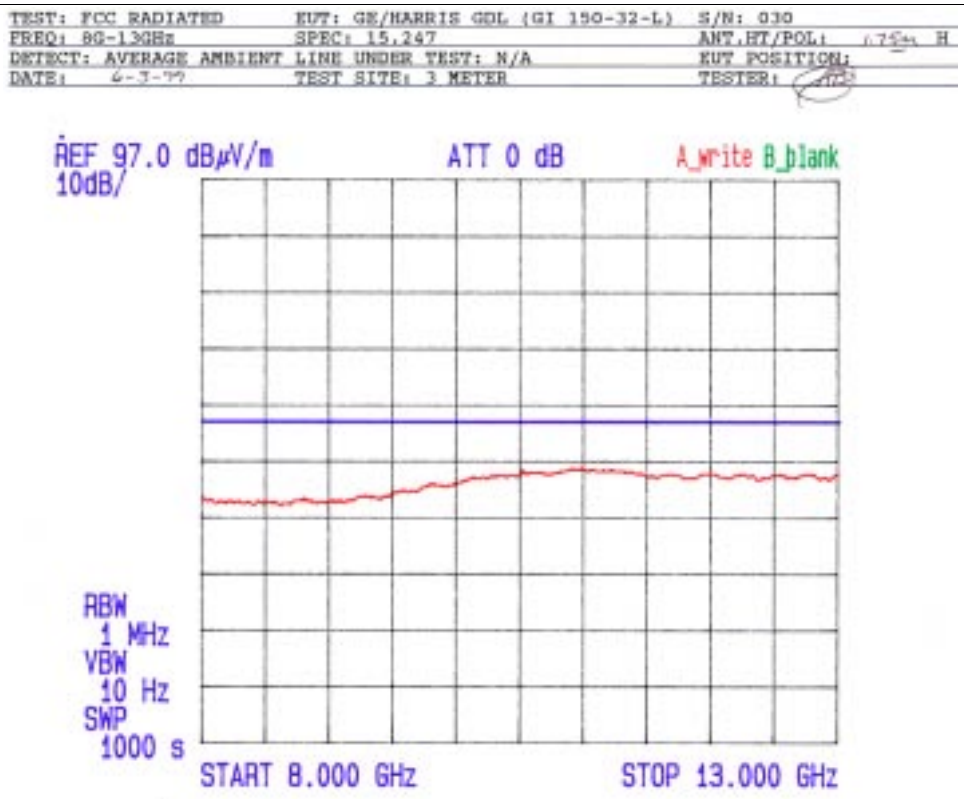


Figure 6.4.4-16: Data Sheet



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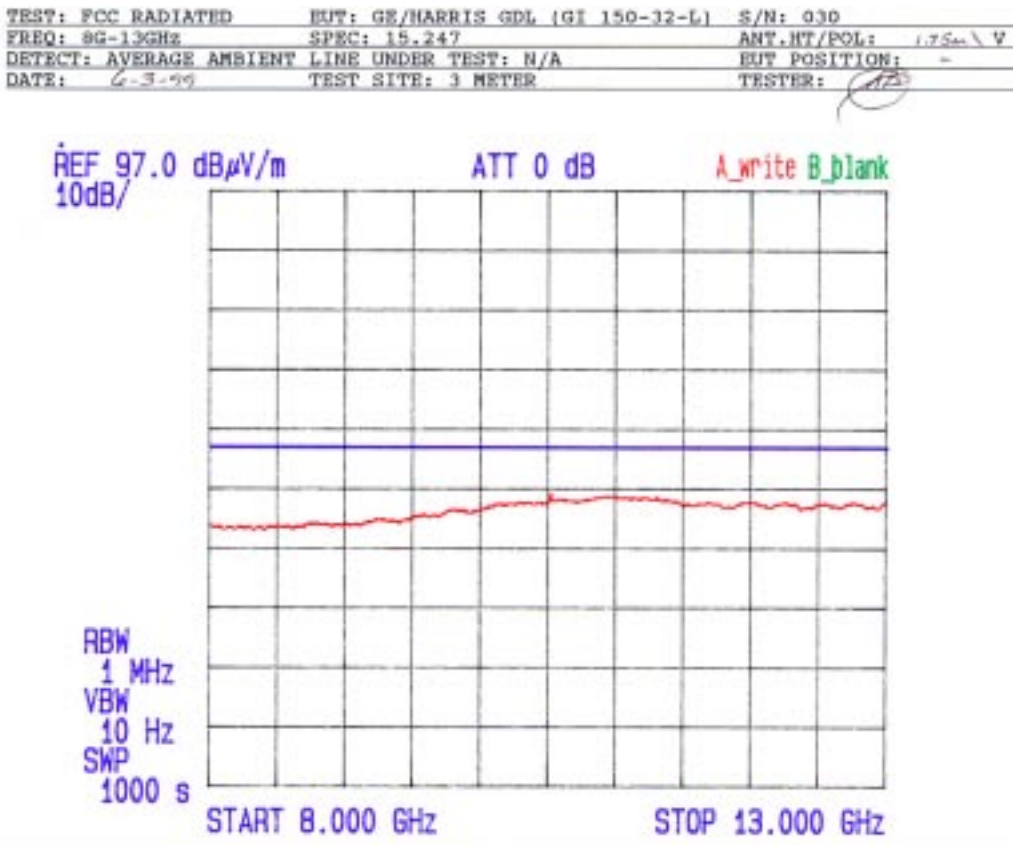

Figure 6.4.4-18: Data Sheet

Figure 6.4.4-19: Data Sheet

Figure 6.4.4-20: Data Sheet

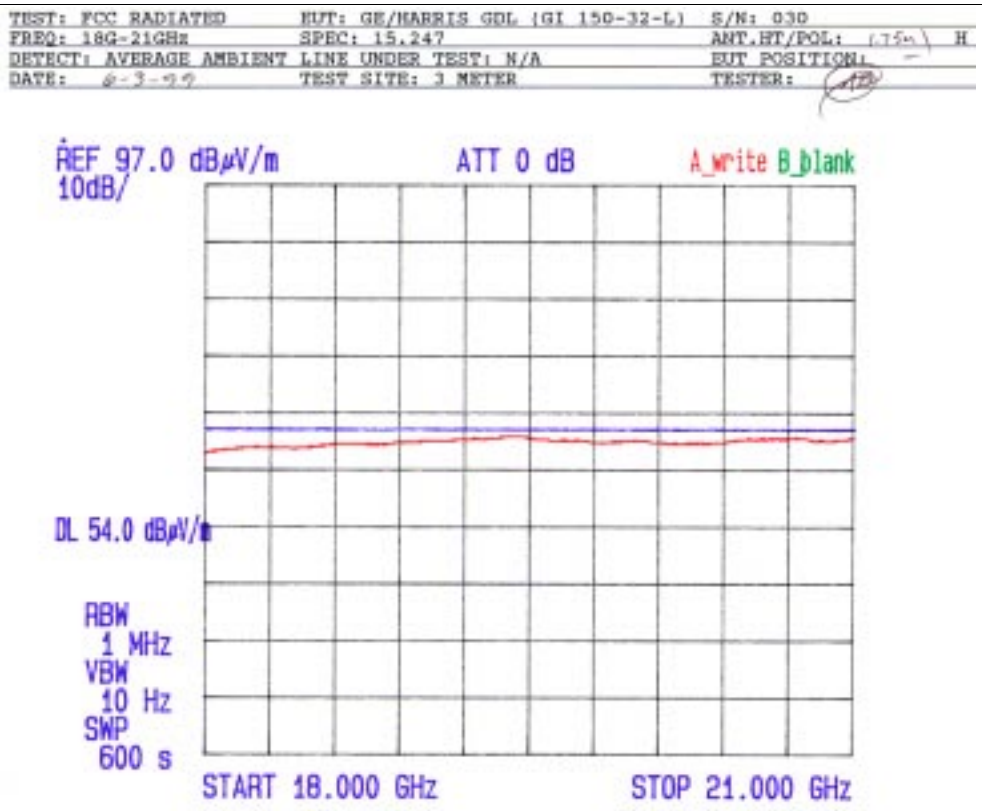

Figure 6.4.4-21: Data Sheet

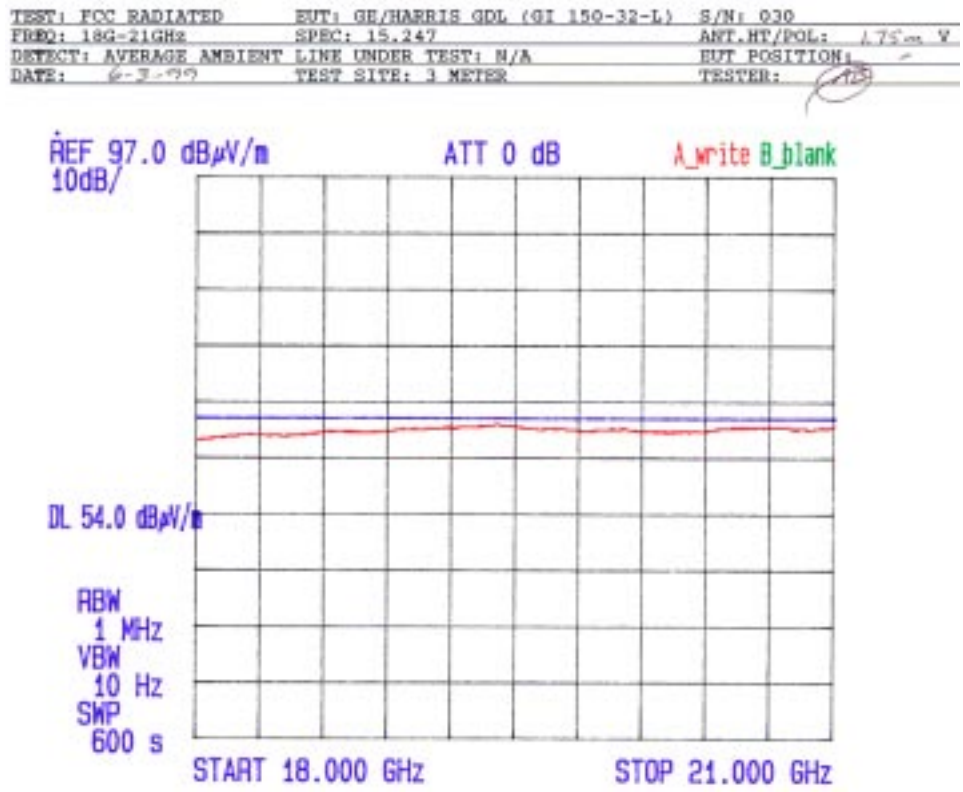

Figure 6.4.4-22: Data Sheet

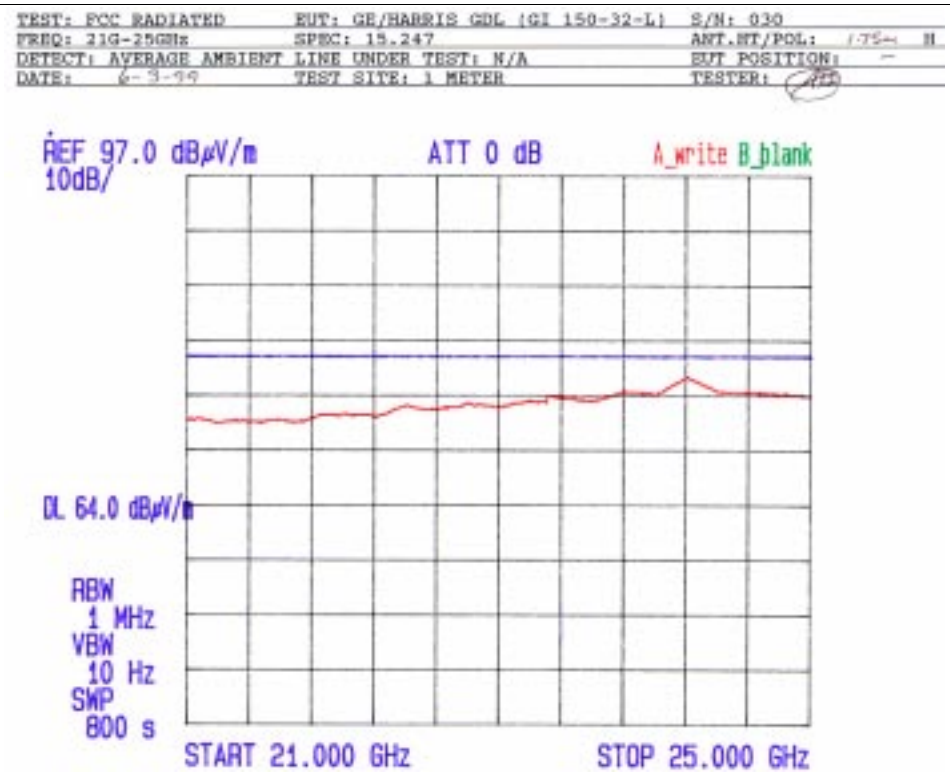

Figure 6.4.4-23: Data Sheet

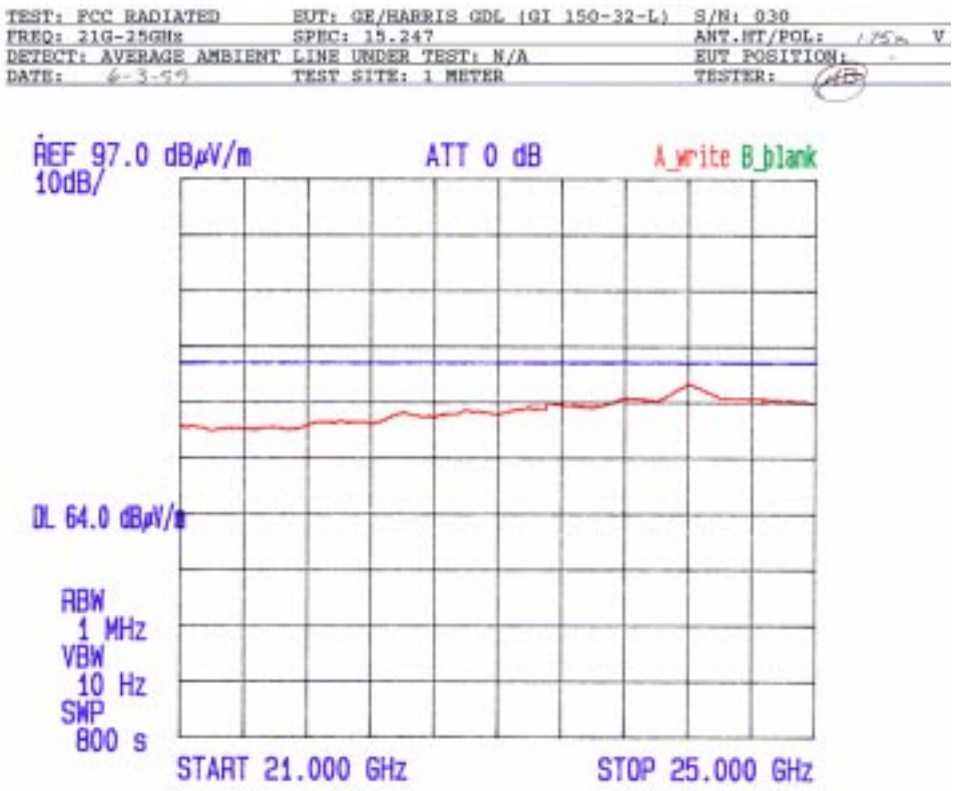

Figure 6.4.4-24: Data Sheet

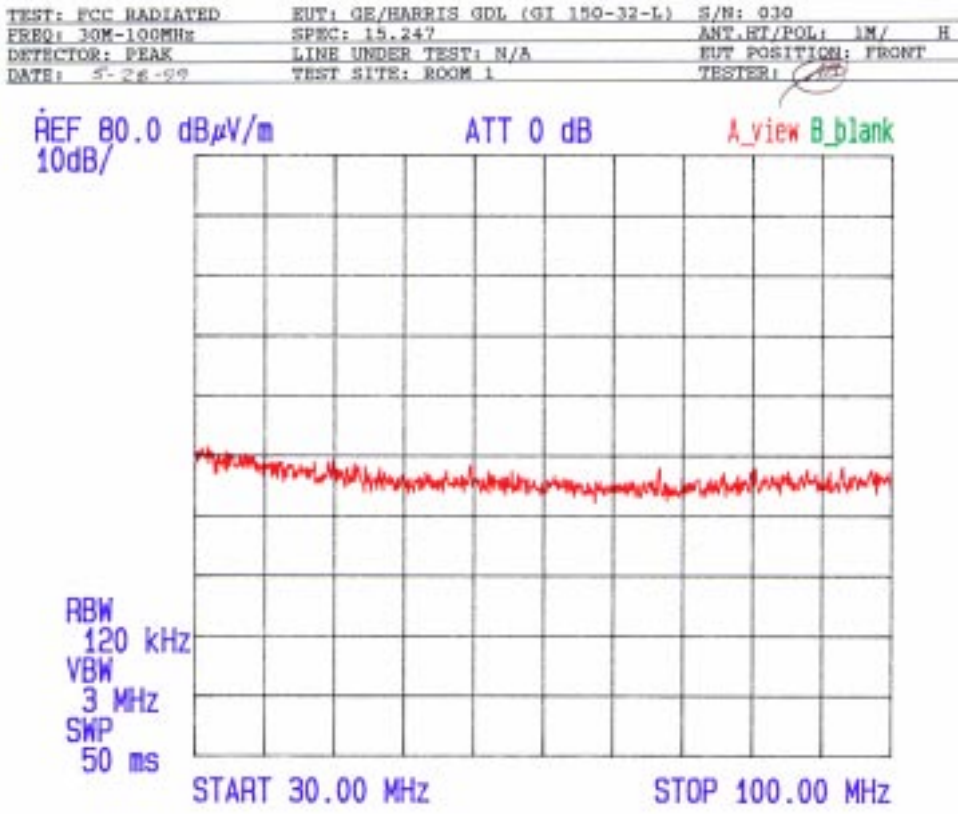

Figure 6.4.5-1: Data Sheet

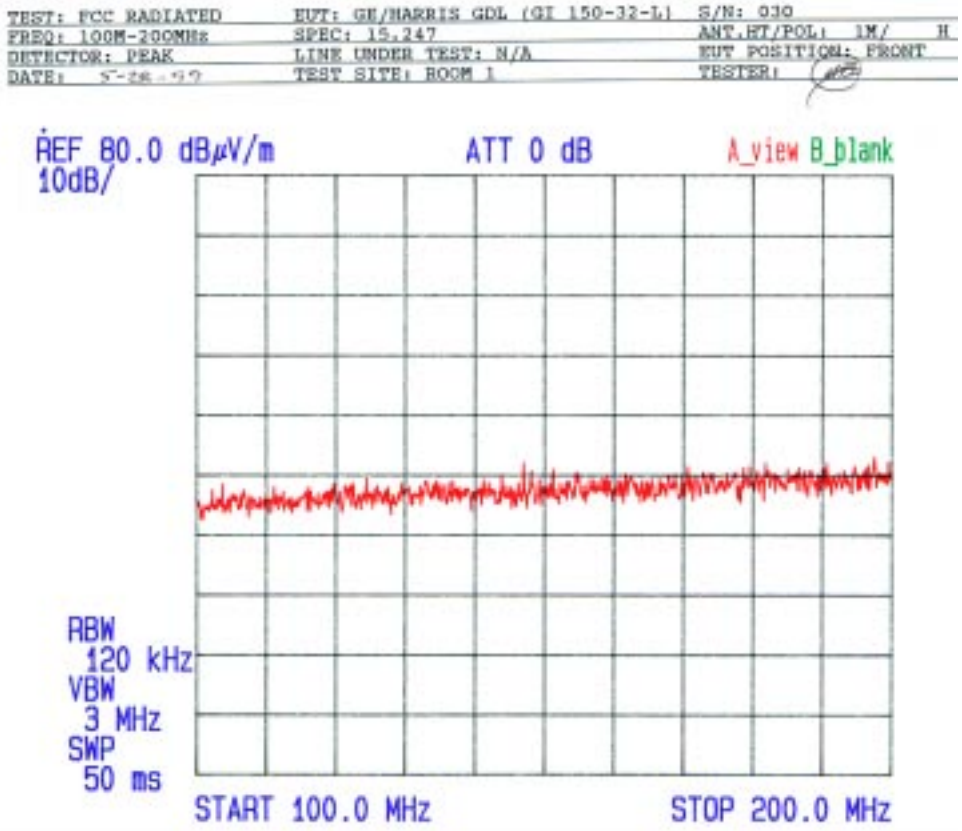

Figure 6.4.5-2: Data Sheet

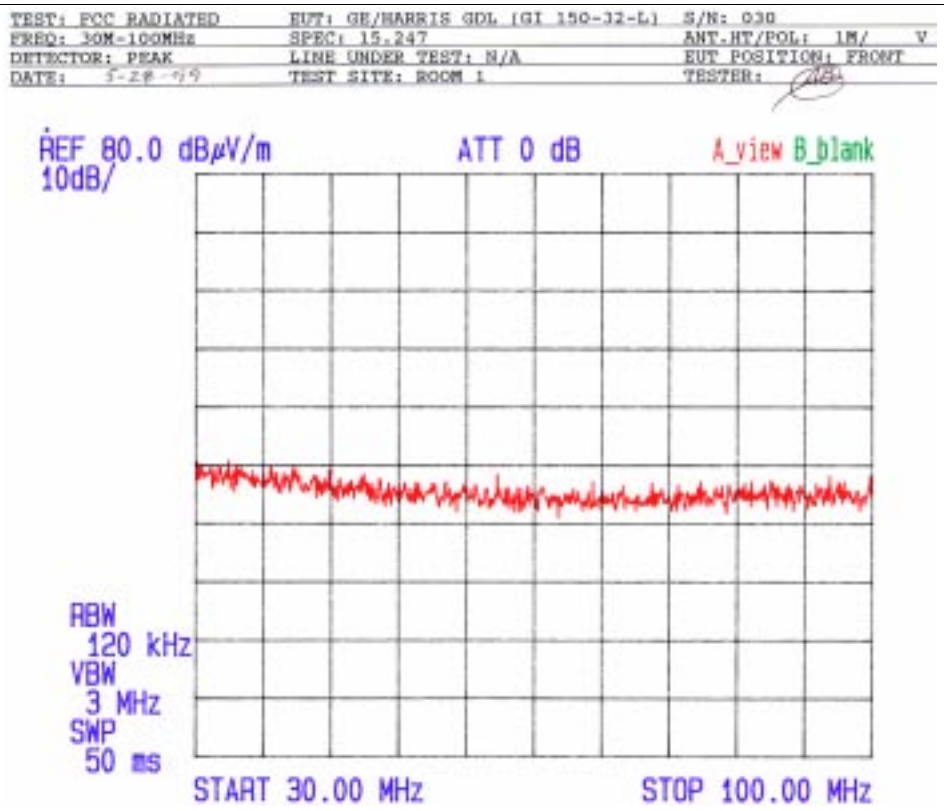

Figure 6.4.5-3: Data Sheet

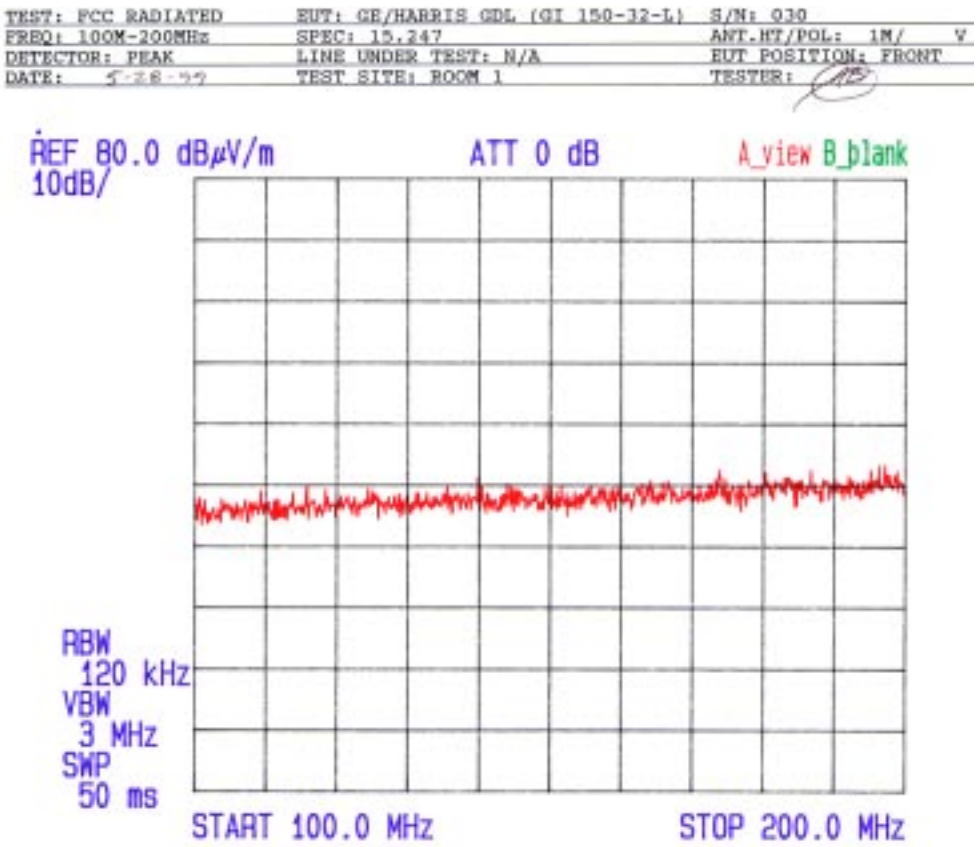

Figure 6.4.5-4: Data Sheet

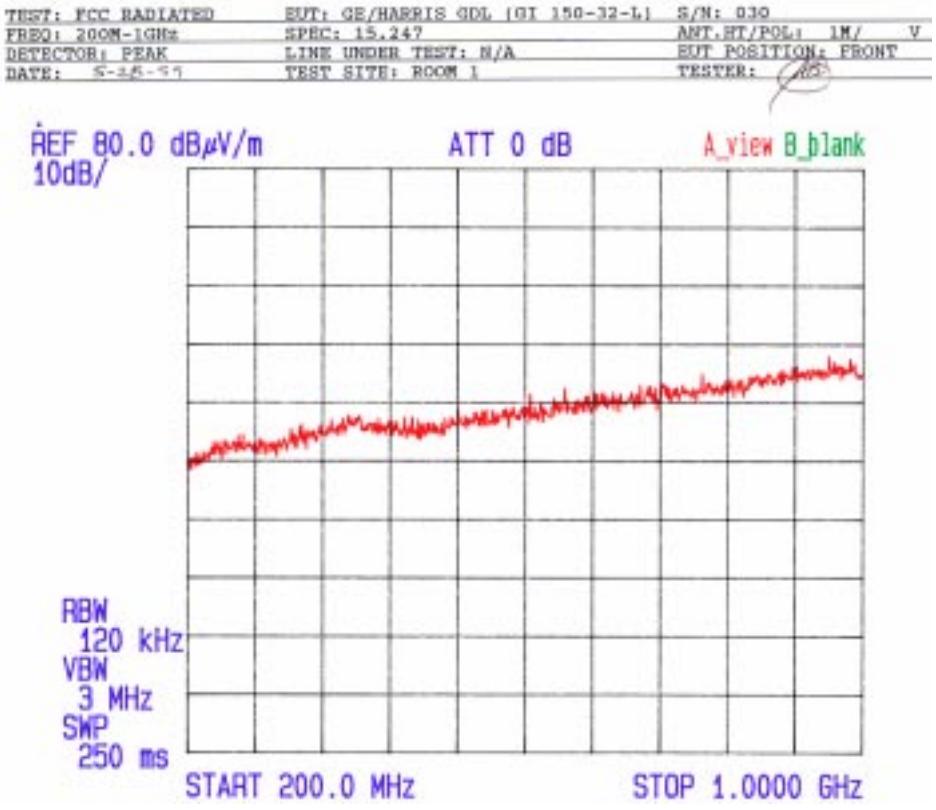

Figure 6.4.5-5: Data Sheet

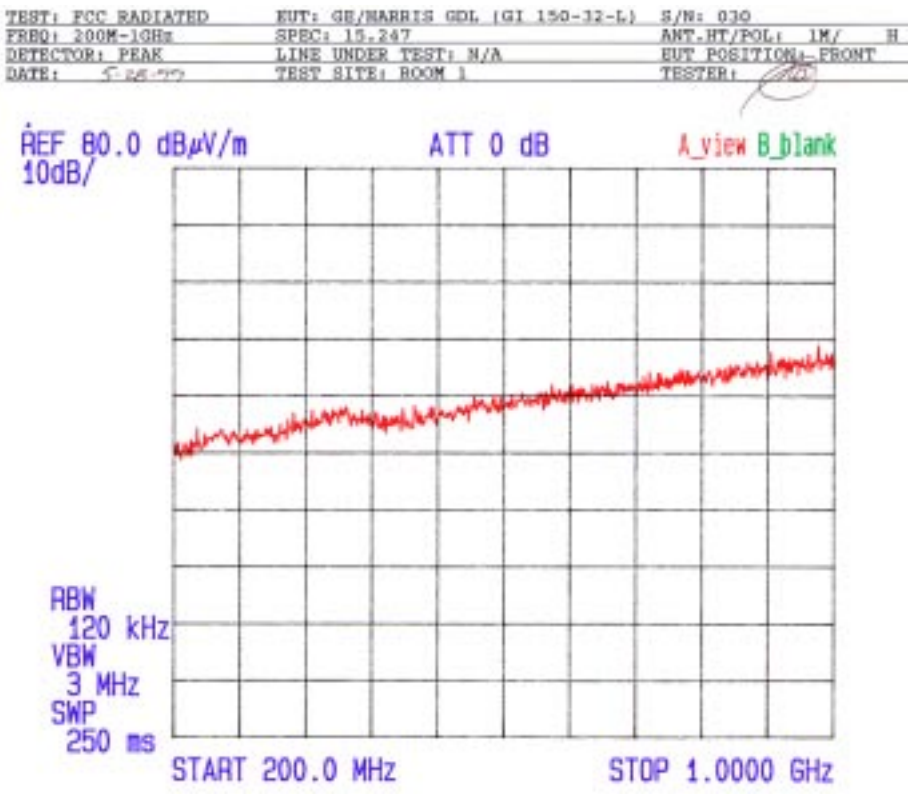

Figure 6.4.5-6: Data Sheet

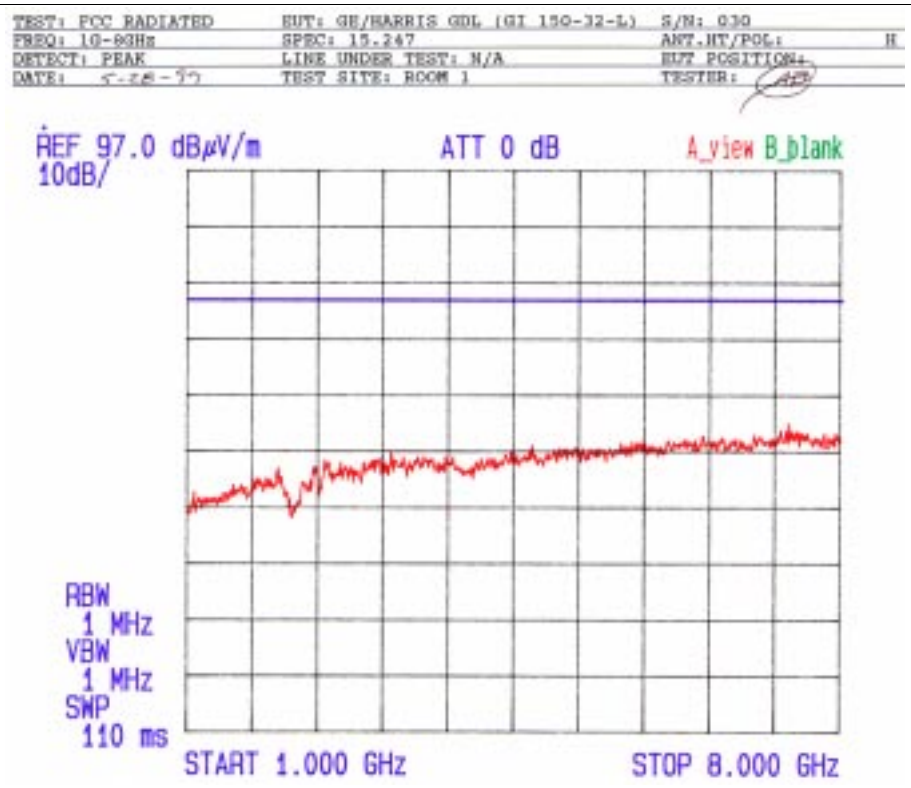

Figure 6.4.5-7: Data Sheet

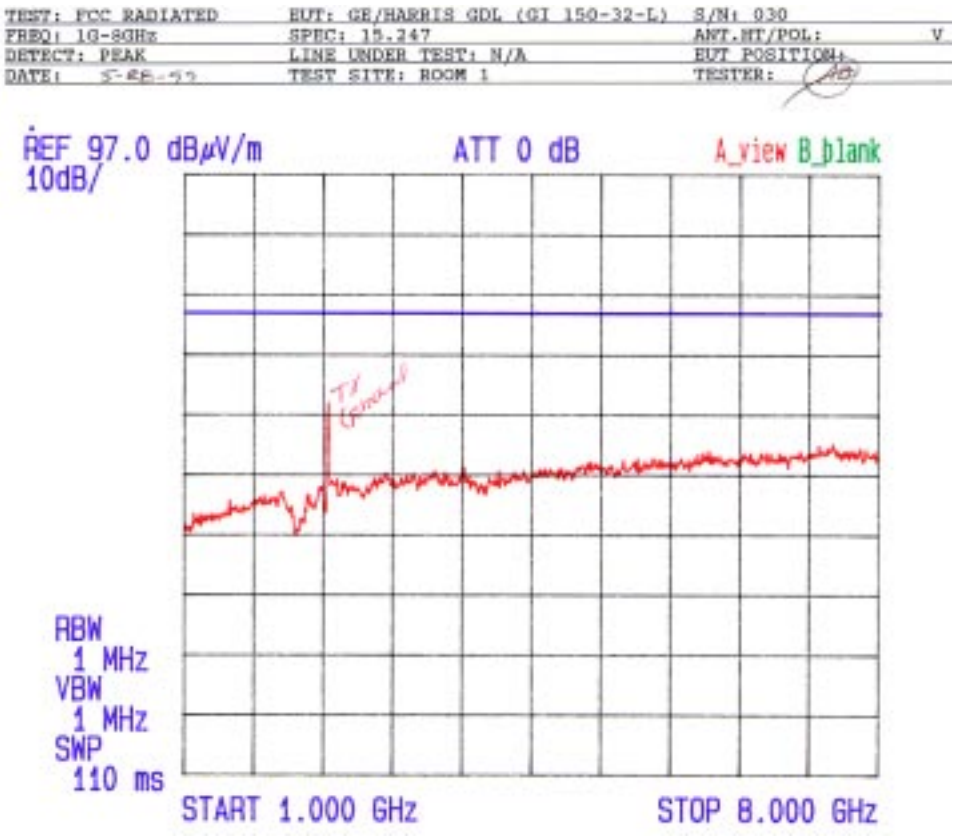

Figure 6.4.5-8: Data Sheet

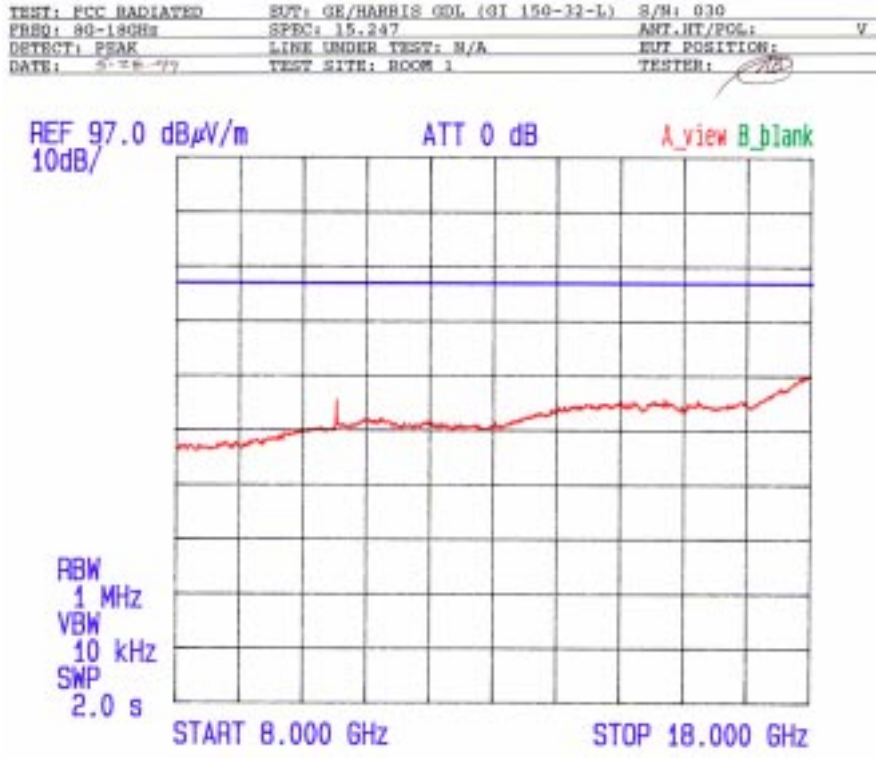

Figure 6.4.5-9: Data Sheet

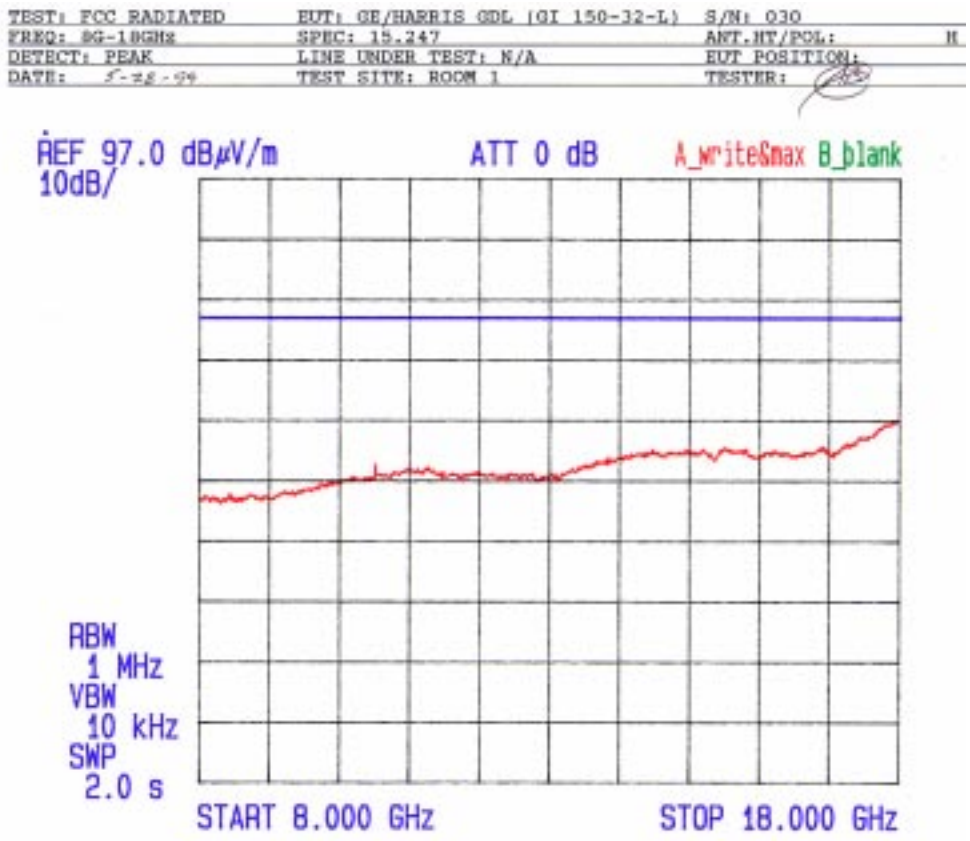

Figure 6.4.5-10: Data Sheet

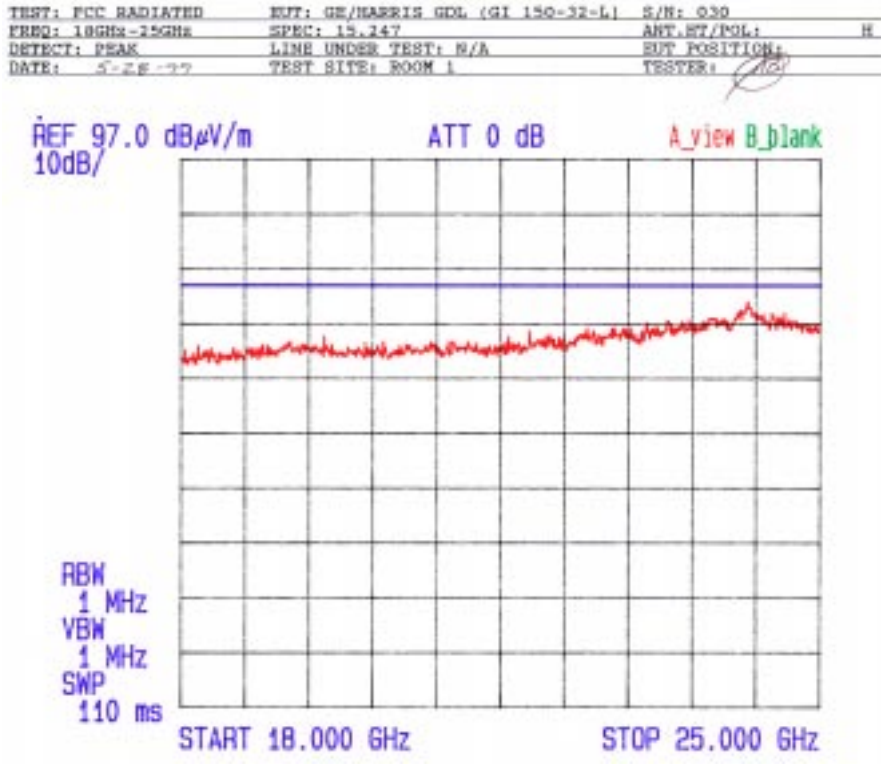

Figure 6.4.5-11: Data Sheet

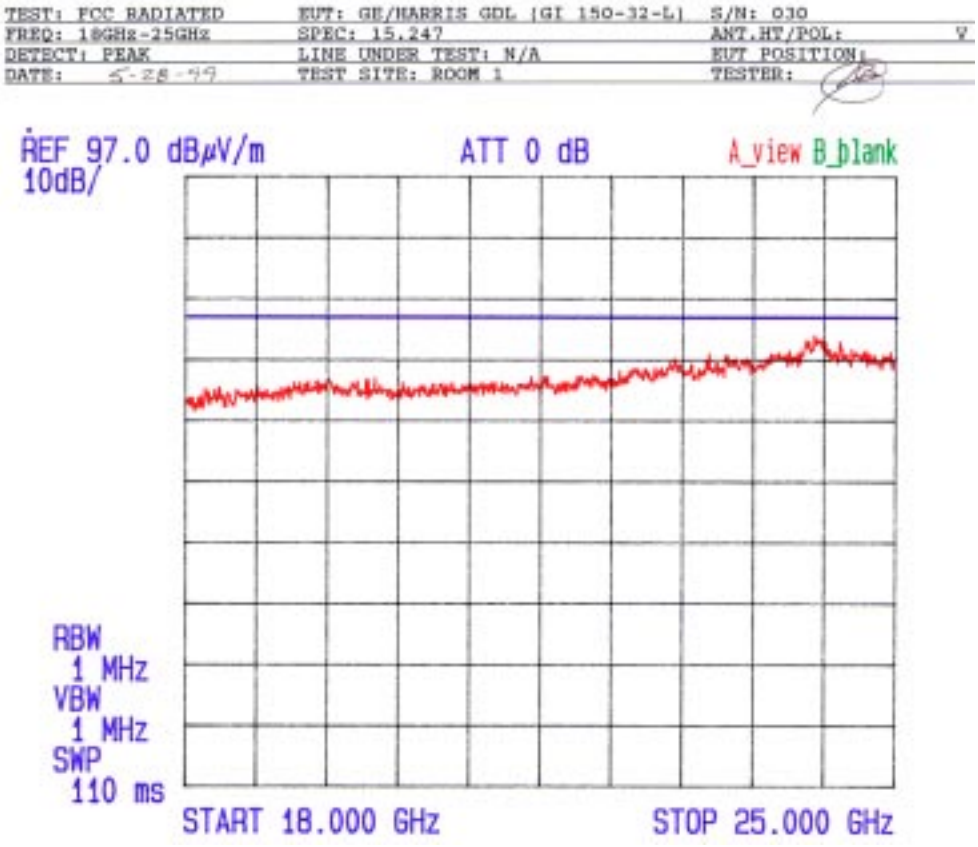

Figure 6.4.5-12: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.412GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.412G (1Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER:

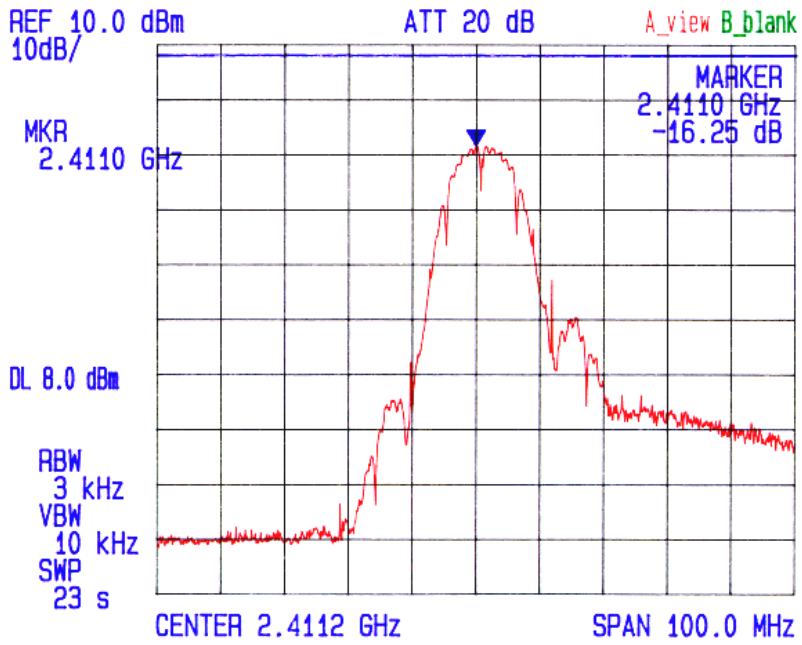

Figure 6.5-1: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.412GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.412G (1Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER:

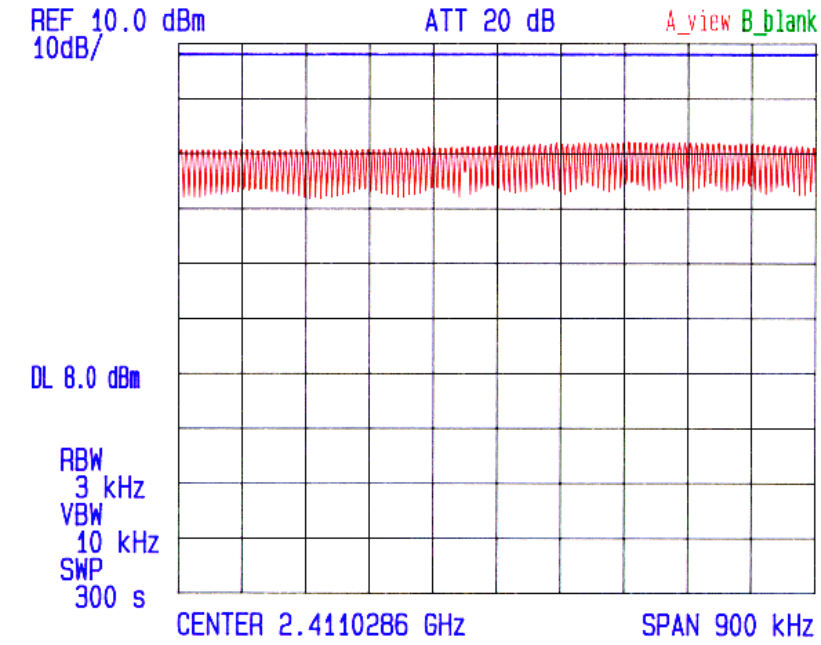

Figure 6.5-2: Data Sheet

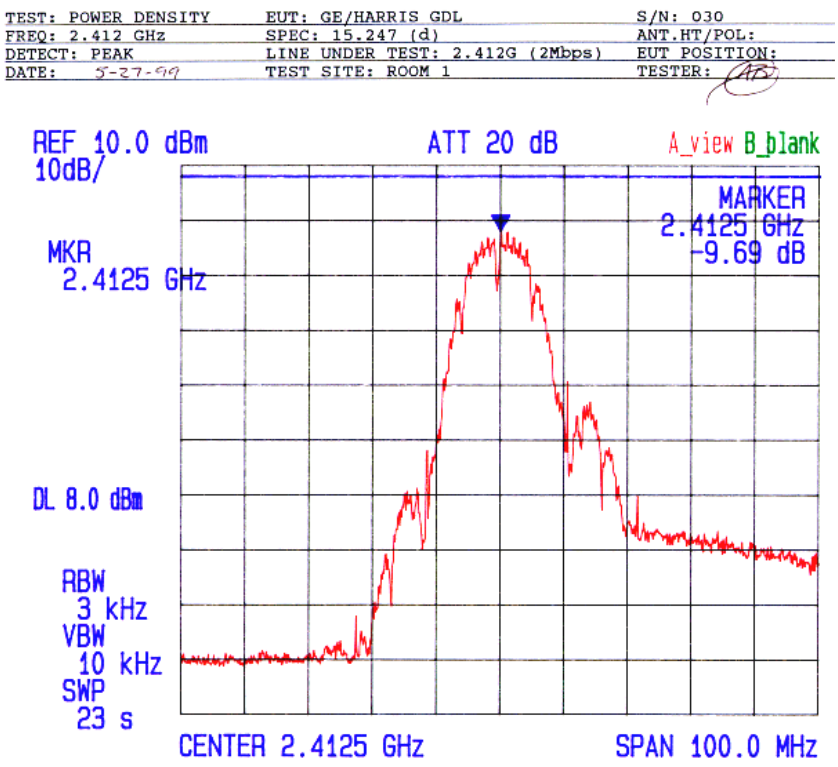

Figure 6.5-3: Data Sheet

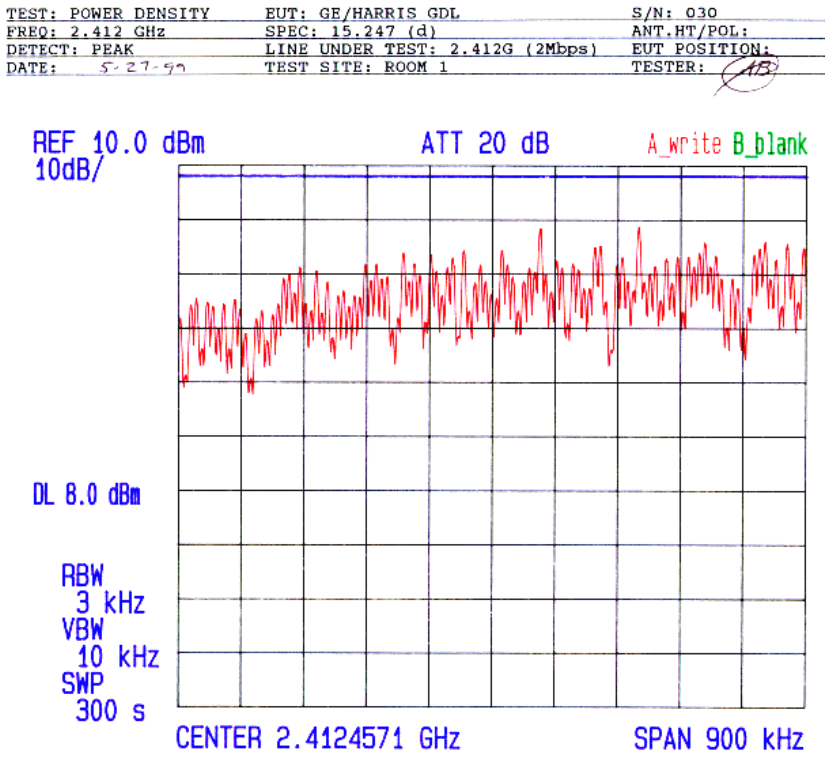

Figure 6.5-4: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.412 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.412G (5.5Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER:

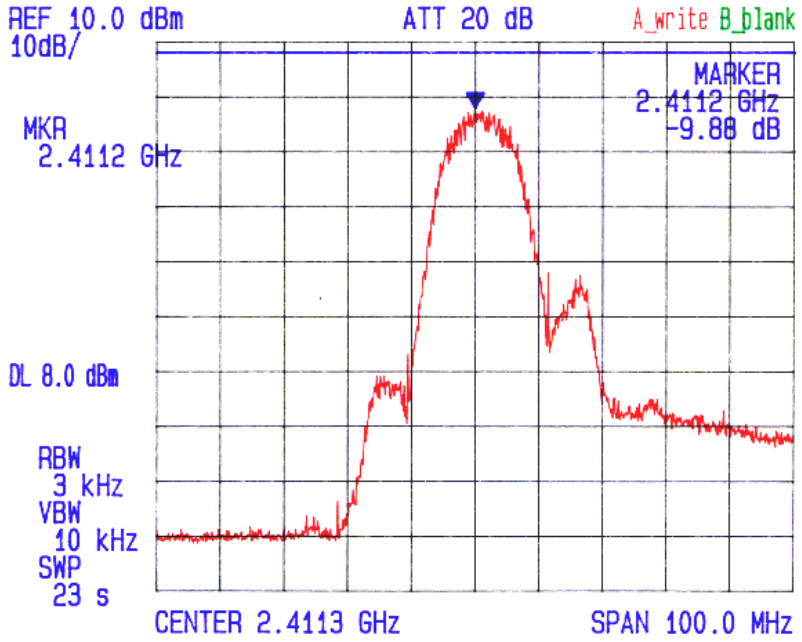

Figure 6.5-5: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.412 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.412G (5.5Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER:

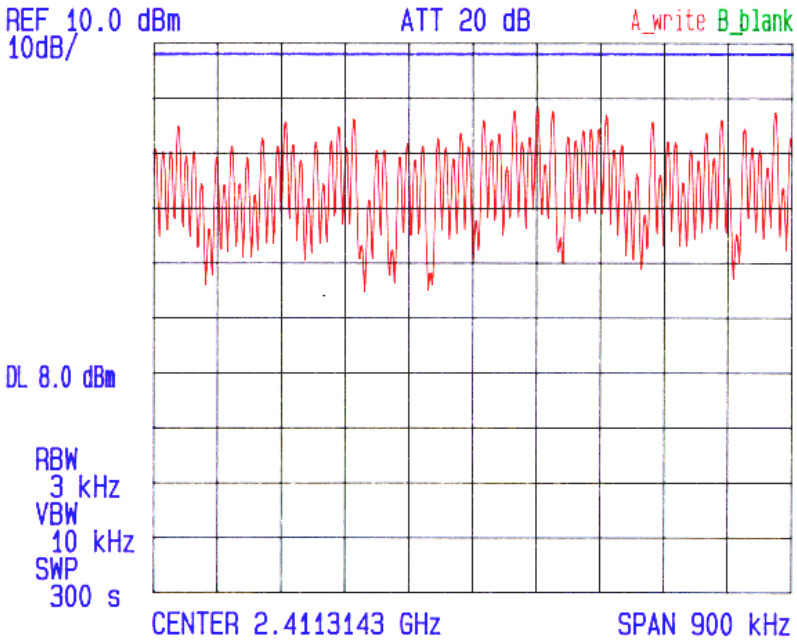

Figure 6.5-6: Data Sheet

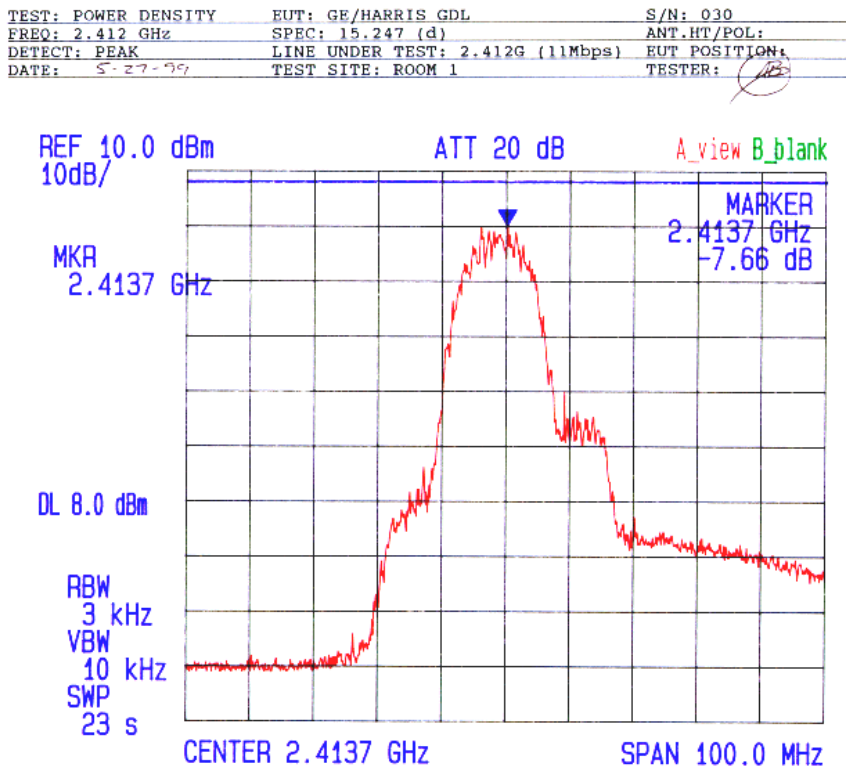

Figure 6.5-7: Data Sheet

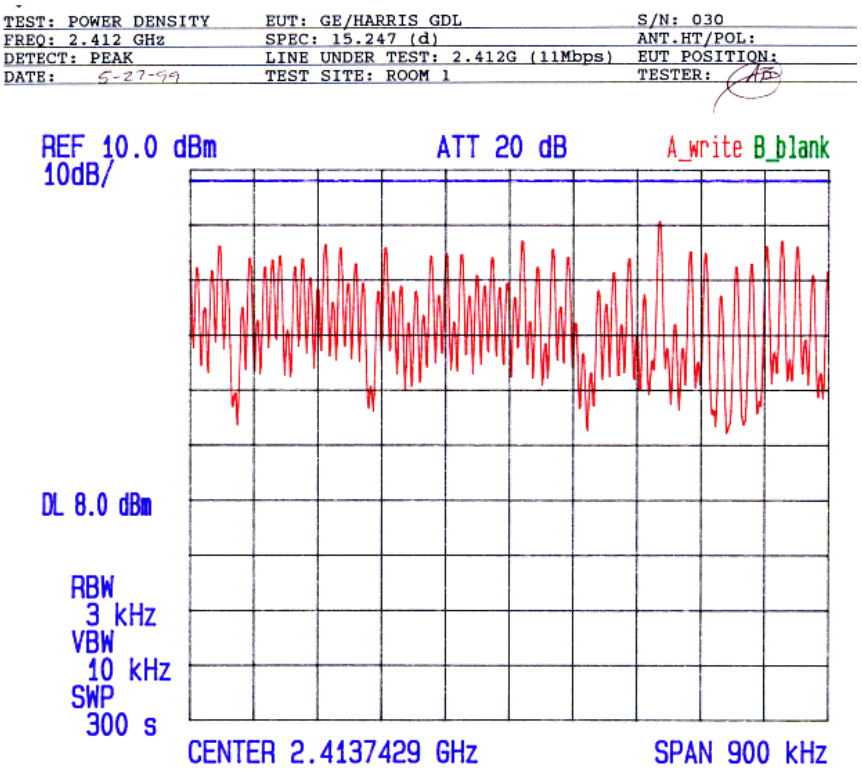

Figure 6.5-8: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.442GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.442G (1Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER:

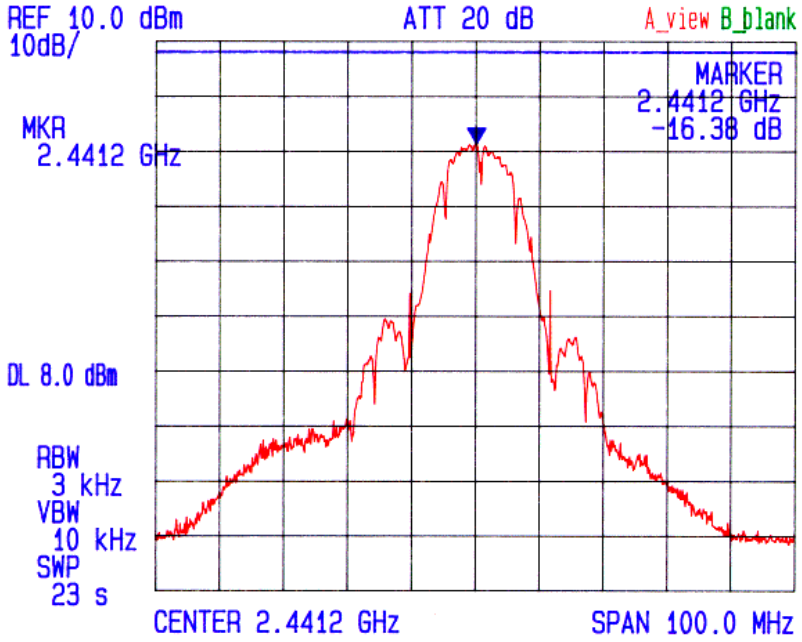

Figure 6.5-9: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.442GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.442G (1Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER:

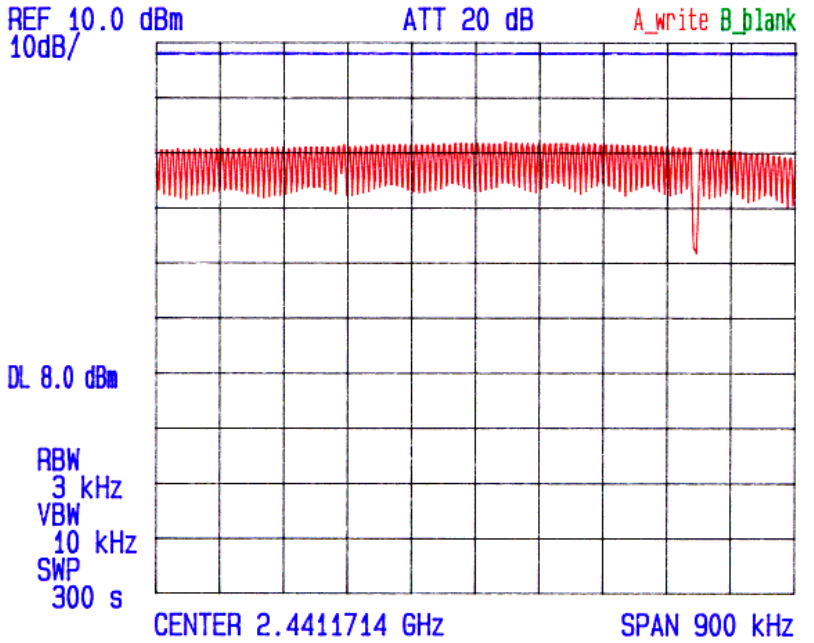

Figure 6.5-10: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.442 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.442G (2Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER:

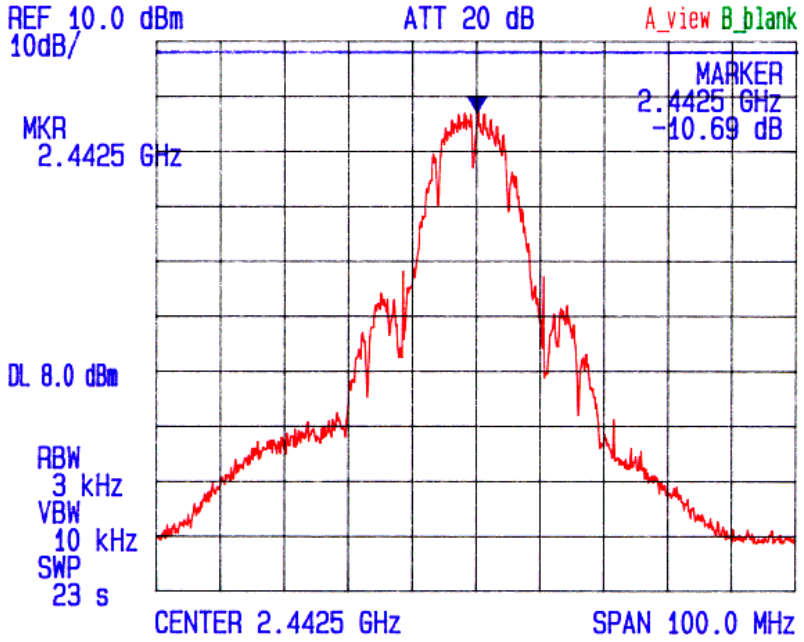

Figure 6.5-11: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.442 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.442G (2Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER:

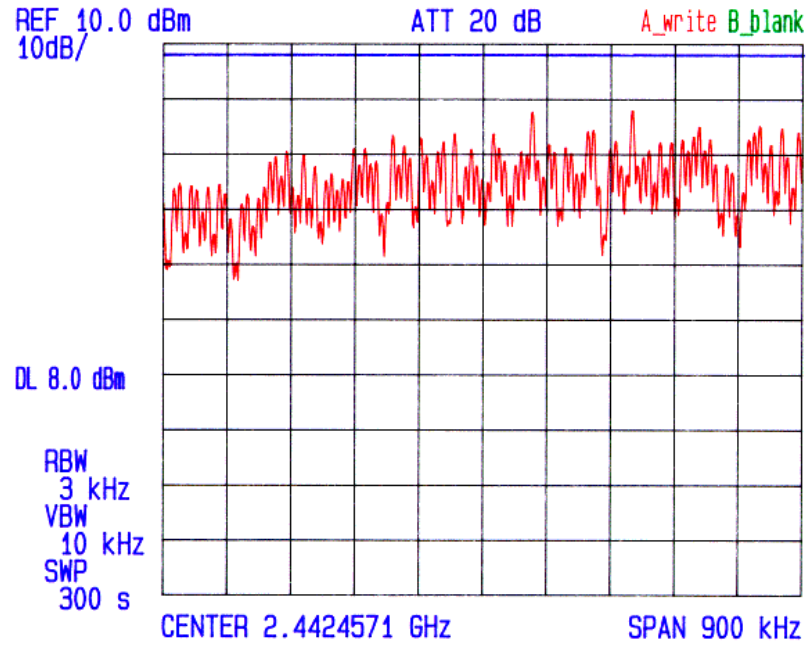

Figure 6.5-12: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.442 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.442G (5.5Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER: AB

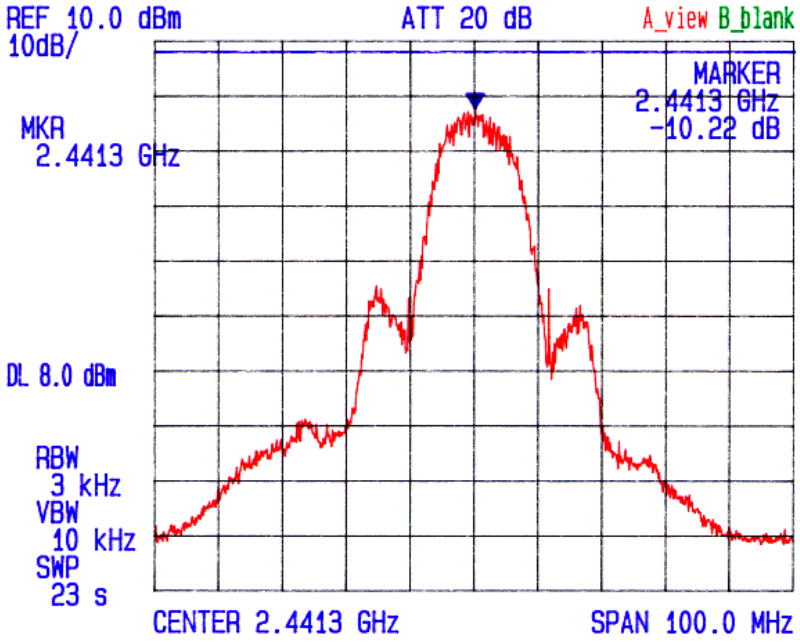

Figure 6.5-13: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.442 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.442G (5.5Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER: AB

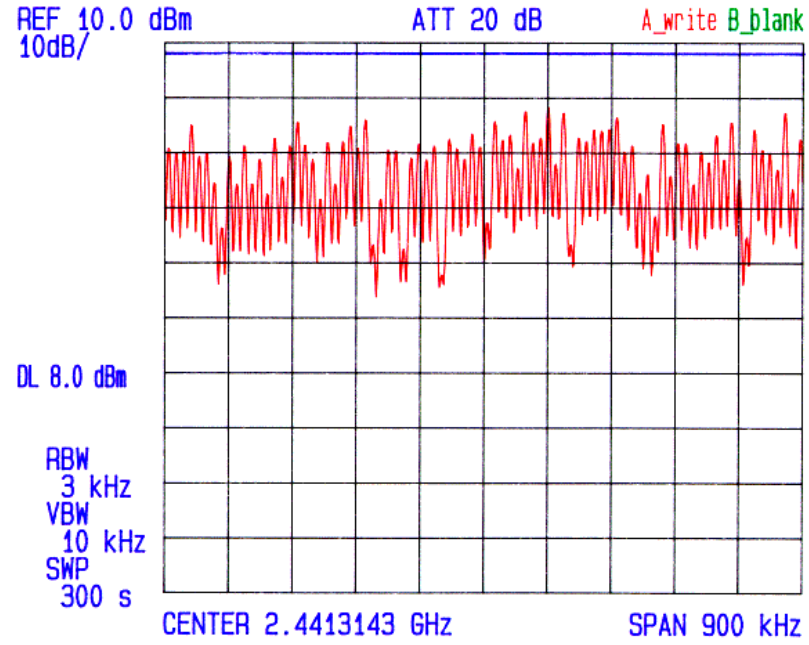

Figure 6.5-14: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.442 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.442G (11Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER:

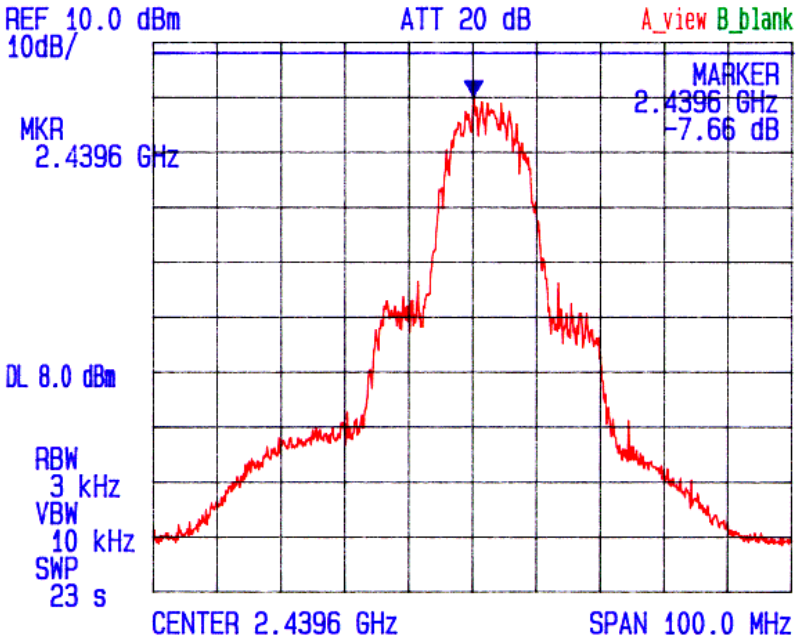

Figure 6.5-15: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.442 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.442G (11Mbps)	EUT POSITION:
DATE: 5-27-99	TEST SITE: ROOM 1	TESTER:

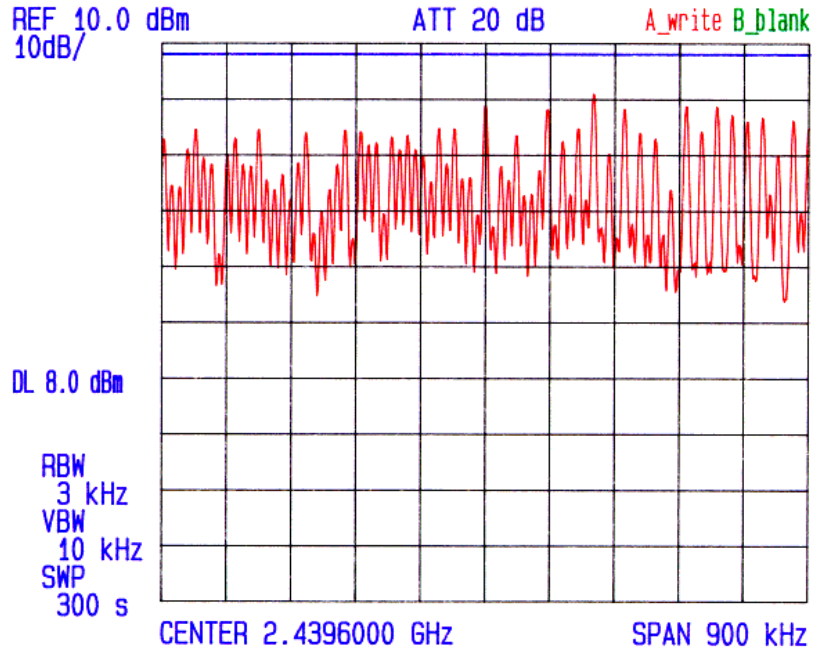

Figure 6.5-16: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.462GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.462G (1Mbps)	EUT POSITION:
DATE: 5-28-99	TEST SITE: ROOM 1	TESTER:

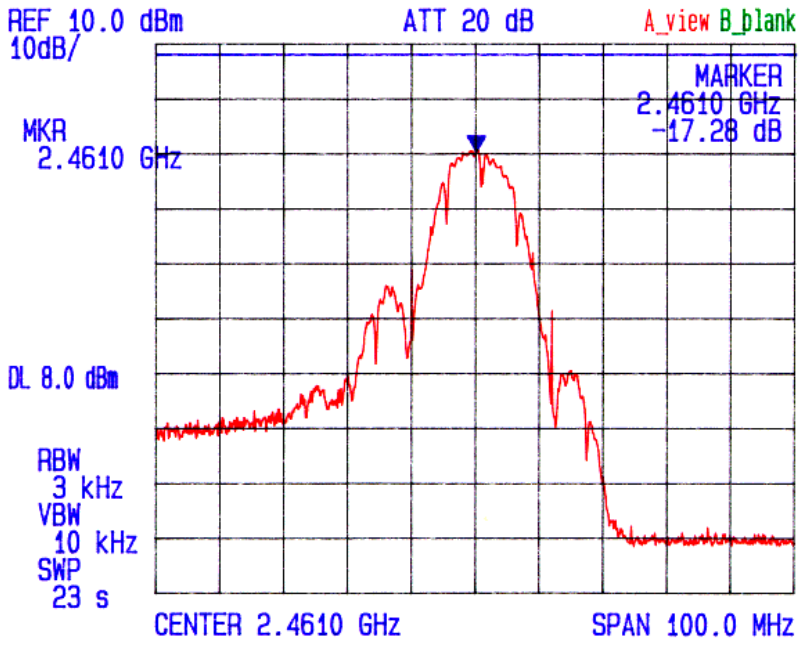

Figure 6.5-17: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.462GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.462G (1Mbps)	EUT POSITION:
DATE: 5-28-99	TEST SITE: ROOM 1	TESTER:

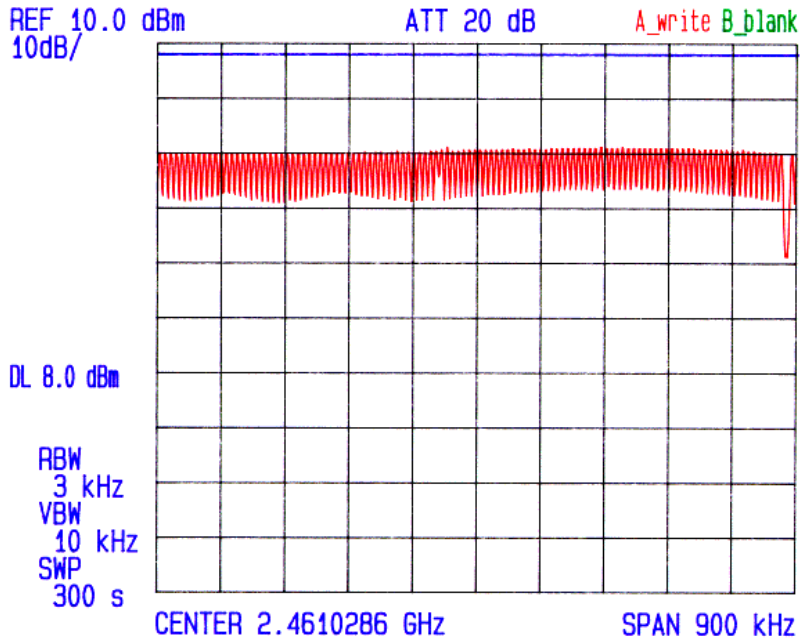

Figure 6.5-18: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.462 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.462G (2Mbps)	EUT POSITION:
DATE: 5-28-99	TEST SITE: ROOM 1	TESTER:

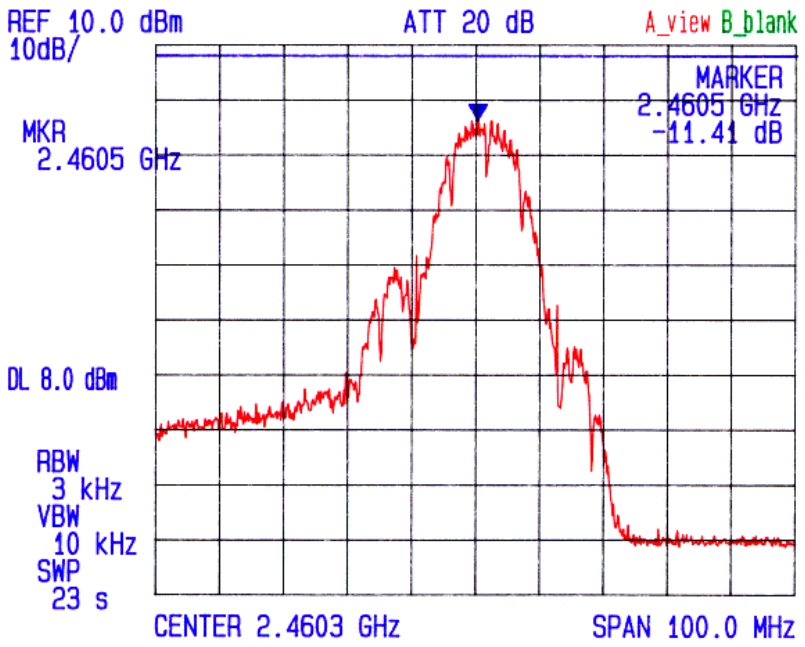

Figure 6.5-19: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.462 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.462G (2Mbps)	EUT POSITION:
DATE: 5-28-99	TEST SITE: ROOM 1	TESTER:

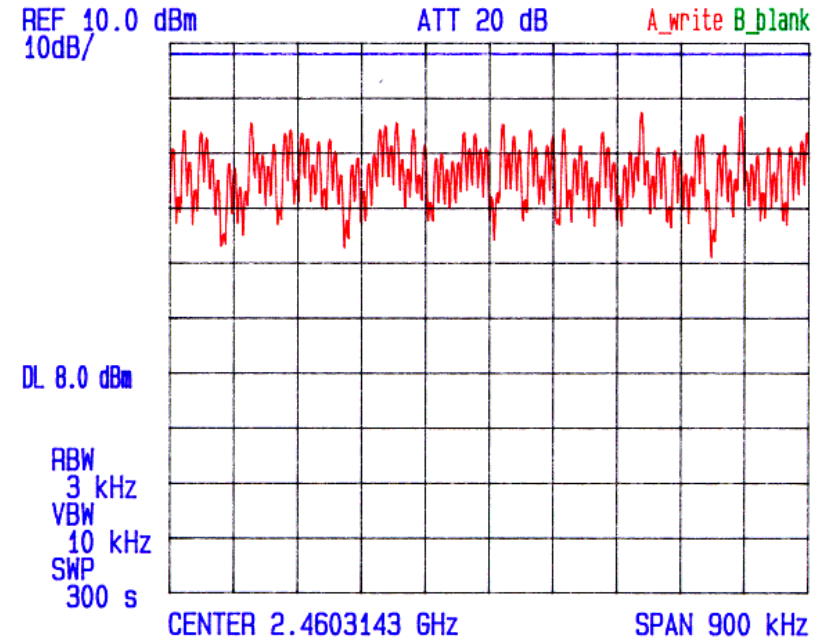

Figure 6.5-20: Data Sheet

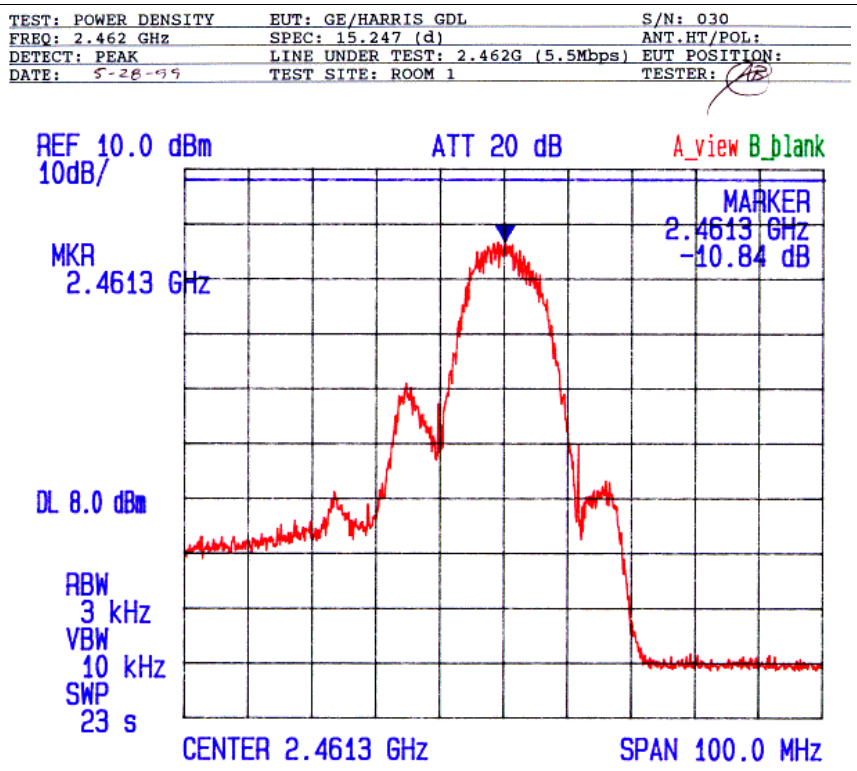

Figure 6.5-21: Data Sheet

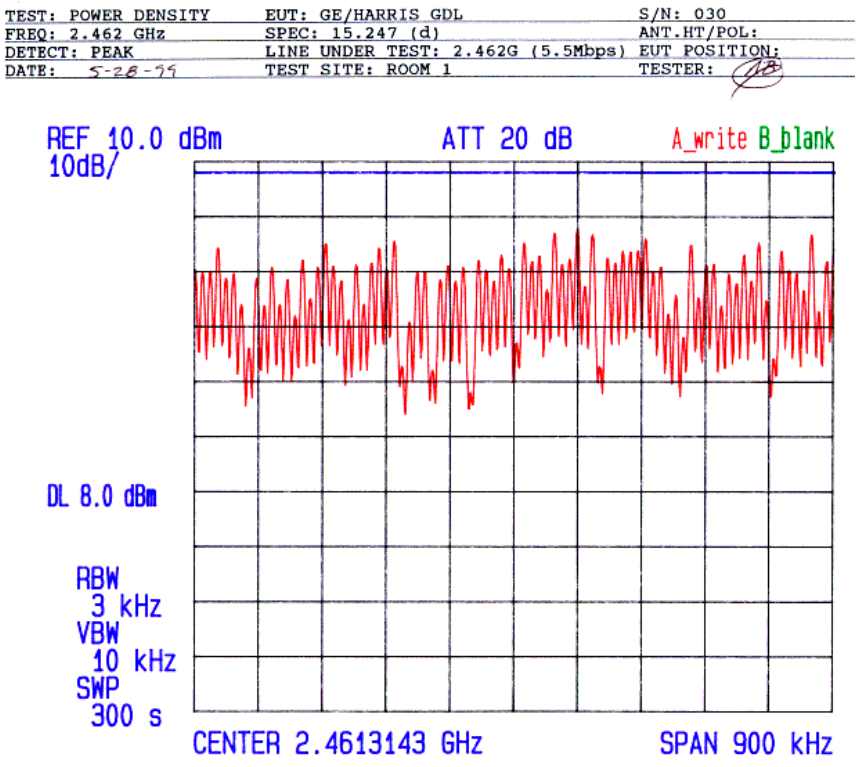

Figure 6.5-22: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.462 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.462G (11Mbps)	EUT POSITION:
DATE: 5-28-99	TEST SITE: ROOM 1	TESTER:

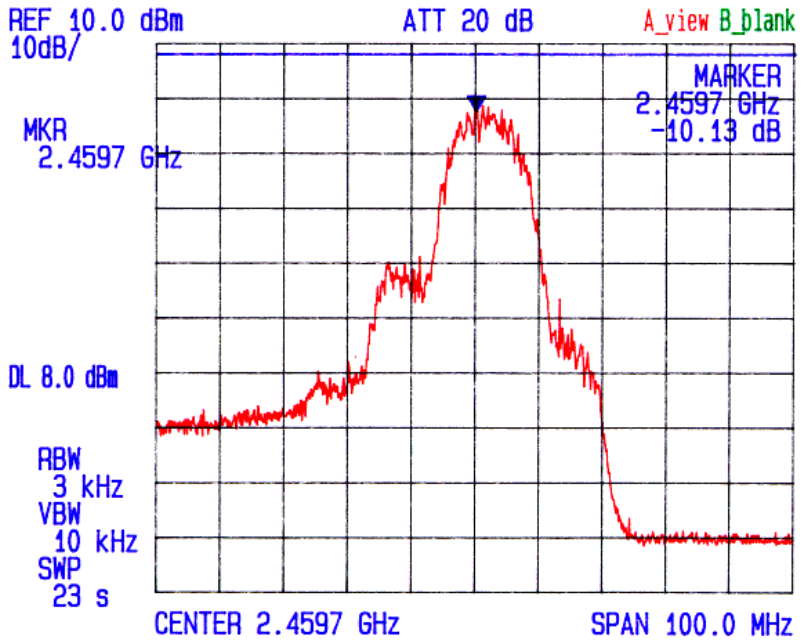

Figure 6.5-23: Data Sheet

TEST: POWER DENSITY	EUT: GE/HARRIS GDL	S/N: 030
FREQ: 2.462 GHz	SPEC: 15.247 (d)	ANT.HT/POL:
DETECT: PEAK	LINE UNDER TEST: 2.462G (11Mbps)	EUT POSITION:
DATE: 5-28-99	TEST SITE: ROOM 1	TESTER:

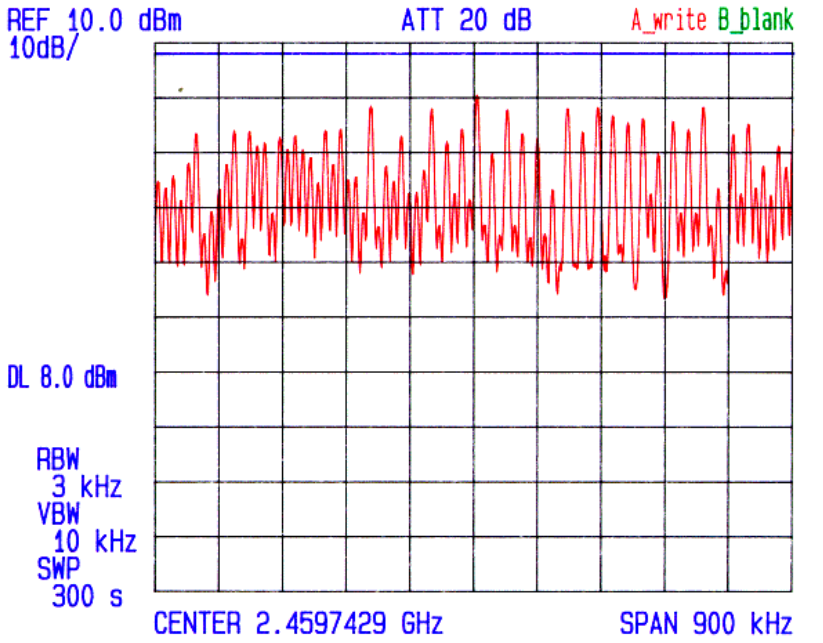

Figure 6.5-24: Data Sheet

APPENDIX A

COMPLIANCE LETTER

FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
Telephone: 301-725-1585 (ext-218)
Facsimile: 301-344-2050

December 5, 1996

IN REPLY REFER TO
31040/SIT
1300F2

Rubicom Systems, Inc.
284 West Drive, Suite B
Melbourne, FL 32904

Attention: Joseph G. Barbee

Re: Measurement facility located at above address
(3 meter site)

Gentlemen:

Your submission of the description of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC Rules. The description has, therefore, been placed on file and the name of your organization added to the Commission's list of facilities whose measurement data will be accepted in conjunction with applications for certification or notification under Parts 15 or 18 of the Commission's Rules. Our list will also indicate that the facility complies with the radiated and AC line conducted test site criteria in ANSI C63.4-1992. Please note that this filing must be updated for any changes made to the facility, and at least every three years the data on file must be certified as current.

Per your request, the above mentioned facility has been also added to our list of those who perform these measurement services for the public on a fee basis. This list is published periodically and is also available on the Laboratory's Public Access Link as described in the enclosed Public Notice.

Sincerely,

Thomas W. Phillips
Electronics Engineer
Customer Service Branch

Enclosure:
PAL PN

APPENDIX B
TEST PROCEDURE

Appendix B

(Test Procedure deleted in consideration of file size)