

DIVERSIFIED

T.E.S.T.

TECHNOLOGIES, INC.

4675 Burr Drive • Liverpool, NY 13088 • 1-800-724-6452 • FAX: 315-457-0428 • 315-457-0245

February 5, 2013

Mr. Steve McMahon
Cortland Research LLC
12 S. Main St. Suite 207, PO Box 307
Homer, NY 13077

Dear Mr. McMahon:

Enclosed is the test report for the Cortland Research LLC Leo Outlet which was tested at our facility located at 4675 Burr Drive in Liverpool, NY. This facility is on file with the Federal Communications Commission (FCC) per 47 CFR 2.948. (Site File Registration Number: 306552)

As narrated in the report, the product configuration meets the requirements of the FCC per CFR 47 Part 15.247 Class C for Intentional Radiators. Additionally, all spurious emissions signals are greater than 20 dB below the limit of FCC Part 15.209 and are not reported. Therefore, the unit under test meets the FCC Part 15.209 requirements. The plots indicated ambient scans.

Thank you for selecting Diversified T.E.S.T. Technologies, Inc. for your testing needs. We look forward to working with you on future projects. Should you have any questions or concerns regarding this report, contact me at 315-457-0245. Please feel free to visit our website at www.dttlabs.com.

Sincerely,



Michael McElroy
Technical Associate

<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
Cortland Research LLC Leo Outlet	Project Number: 6401

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Emissions Testing

Documentation

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Cortland Research LLC Leo Outlet	Project Number: 6401

Test Report

Laboratory

Diversified TEST Technologies, Inc.
4675 Burr Drive
Liverpool, NY 13088
315-457-0245

Manufacturer

Cortland Research LLC
12 S. Main St. Suite 207 PO Box 307
Homer, NY 13077


Report Issue Date: **February 5, 2013**
Project Number: **6401**
Report Number: **6401-020513 FCCC – (Edition 1)**

Date Received: **January 24, 2013**
Date Tested: **January 24, 2013-January 29, 2013**
Product: **Outlet**
Model Numbers: **Leo**
FCC ID: S2XLEO15800101


Traceability: *Reference standards of measurement have been calibrated by a competent body using standards traceable to NIST.*

The testing performed by Diversified TEST Technologies, Inc. has shown that the product referenced above complies with the electromagnetic compatibility requirements according to the standard(s) specified on page 3 of the test report. The results in this test report apply only to the product denoted above. The manufacturer is responsible for ensuring that additional units are manufactured with identical mechanical and electrical characteristics.

The equipment listed above conforms to the specified requirements of the test standards listed on page 3 of this report.

Complied by: 
Signature: _____
Michael McElroy
Technical Associate

Date: February 5, 2013

Reviewed by: 
Signature: _____
Annelle Frierson
Vice- President

Date: February 5, 2013

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Emissions Test Regulations

The emissions tests were performed according to the following regulations:

☐ EN 50081-1:1992

☐ EN 50081-2:1995

☐ EN 55011:1998 / A1:1999 / A2:2001

☐ Group 1

☐ Group 2

☐ Class A

☐ Class B

☐ EN 55013:1990 / A12:1994 / A13:1996 / A14:1999

☐ EN 55014:1993 / A1: 1997

☐ Household appliances and similar

☐ Portable tools

☐ Semiconductor devices

☐ EN 55022:1998

☐ Class A

☐ Class B

☒ **FCC Part 15.247**

☐ Class A

☐ Class B

☒ **Class C**

☒ **Certification**

☐ Verification

☐ Declaration of Conformity

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Emissions Test Conditions: FCC PART 15.247

The Harmonics and Bandwidth measurements were tested in a horizontal and vertical polarization at the following test location:

- ☒ Diversified TEST Technologies, Inc. Open Area Test Site
☐ Diversified TEST Technologies, Inc. Lab

at a test distance of:

- ☒ 1 meter
☒ 3 meters
☐ 30 meters

Test equipment used:

Manufacturer	Model	Description	Serial #	Cal.	Cal. Due
Agilent	E4440A	Spectrum Analyzer	US40421122	6/12/12	6/12/13
Electro-Metrics	RGA60	Ridge Horn Antenna	2981	8/25/12	8/25/13
	MFR-57500	Blue low-loss transmit cable	337	CNR	CNR
		Non-conductive wooden turntable		CNR	CNR
		10-meter open field test range, grounded with ¼" x ¼" hardware cloth		CNR	CNR

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Equipment under Test (EUT) Test Operation Mode – Emissions Tests:

The device under test was operated under the following conditions during emissions testing:

- ☐ Standby
- ☒ Normal Operating Mode
- ☐ Practice Operation

Description / Configuration of the device under test:

Power Management System Outlet.

The unit was powered by a 120 VAC 60 Hz during the collection of data.

Modifications:

Nichicon Part # F931C106KAA 10uF Capacitor replaced blank space in C65 on PCB.

Rationale for EUT setup / configuration:

ANSI C63.4:2003

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Emissions Test Results:

FCC Part 15.247 Part C for 2405, 2435, and 2475 MHz
The requirements are ☒ **MET** ☐ **NOT MET**

General Remarks:

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Measurements were taken up to the tenth harmonic.

The EUT was evaluated in 1 orthogonal orientation and the worst case data is reflected in the test report.

Summary:

The requirements according to the technical regulations are

☒ Met.
☐ Not met.

The device under test does

☒ fulfill the general approval requirements mentioned on page 3.
☐ not fulfill the general approval requirements mentioned on page 3.

Testing Start Date: January 24, 2013

Testing End Date: January 29, 2013

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Test Setup Photographs:

FCC PART 15.247 CLASS C – 2405/2435/2475 MHZ

Photograph 1: FCC Part 15.247 Class C



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Harmonics Test Datasheets – Channel 11 2405 MHz

21 pages to follow.

Limits for transmitters
Tested January 24, 2013 -
January 29, 2013

FCC Harmonics Test 2405 MHz										
Measured	Res.	DUT	Measured	Cable	Amplifier	Measurement	FCC	Corrected	Margin	
Field Strength	Bandwidth	Frequency	Frequency	Factor	Gain	Distance	Limit	Field Strength		Polarity
(dBµV)	(Khz)	(Mhz)	(Mhz)	(dBuV)	(dBuV)	(Meters)	(dBuV)	(dBuV/M)	(dBuV/M)	
61.71	1000	2405	2405	2.0	0	3	146.99	63.71	-83.28	Horizontal
30.66	1000	2405	4810	2.2	0	1	54	32.86	-21.14	Horizontal
28.59	1000	2405	7215	2.3	0	1	54	30.89	-23.11	Horizontal
27.48	1000	2405	9620	2.4	0	1	54	29.88	-24.12	Horizontal
27.04	1000	2405	12025	2.4	0	1	54	29.44	-24.56	Horizontal
30.61	1000	2405	14430	2.6	0	1	54	33.21	-20.79	Horizontal
30.91	1000	2405	16835	2.7	0	1	54	33.61	-20.39	Horizontal
29.43	1000	2405	19240	2.8	0	1	54	32.23	-21.77	Horizontal
30.33	1000	2405	21645	2.8	0	1	54	33.13	-20.87	Horizontal
31.61	1000	2405	24050	2.9	0	1	54	34.51	-19.49	Horizontal
68.61	1000	2405	2405	2.0	0	3	146.99	70.61	-76.38	Vertical
28.45	1000	2405	4810	2.2	0	1	54	30.65	-23.35	Vertical
29.44	1000	2405	7215	2.3	0	1	54	31.74	-22.26	Vertical
26.26	1000	2405	9620	2.4	0	1	54	28.66	-25.34	Vertical
27.17	1000	2405	12025	2.4	0	1	54	29.57	-24.43	Vertical
30.31	1000	2405	14430	2.6	0	1	54	32.91	-21.09	Vertical
29.71	1000	2405	16835	2.7	0	1	54	32.41	-21.59	Vertical
29.20	1000	2405	19240	2.8	0	1	54	32.00	-22.00	Vertical
29.51	1000	2405	21645	2.8	0	1	54	32.31	-21.69	Vertical
31.24	1000	2405	24050	2.9	0	1	54	34.14	-19.86	Vertical
*Antenna factors are pre-calculated into Measured Field Strength (dBµV)										
Unit Under Test: Leo Outlet Channel 11										

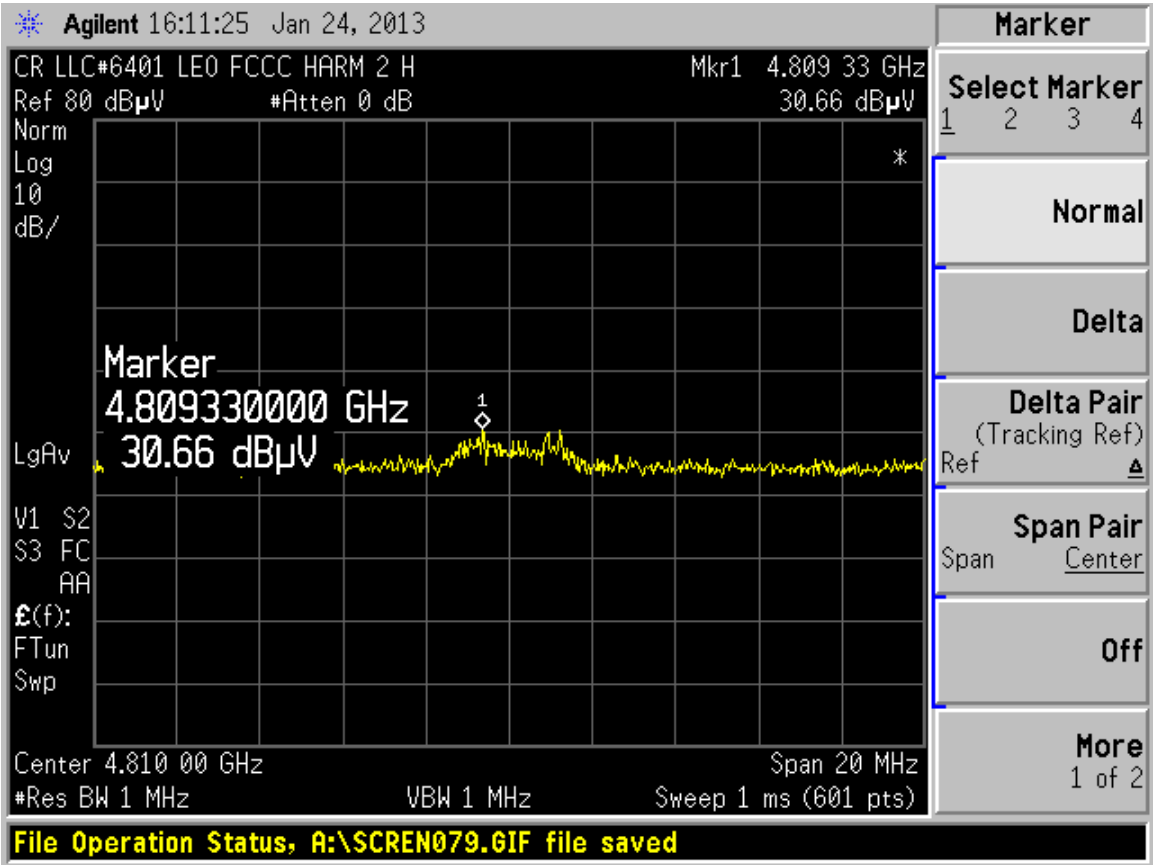
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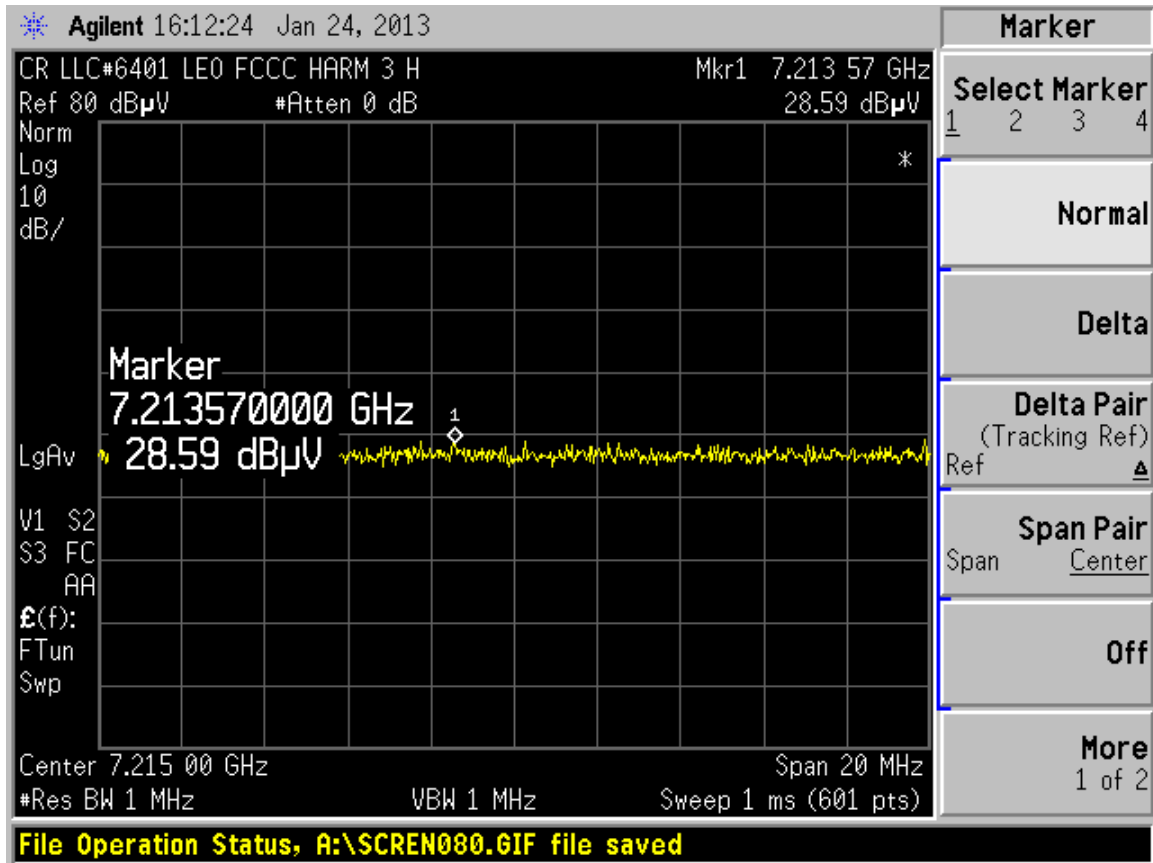
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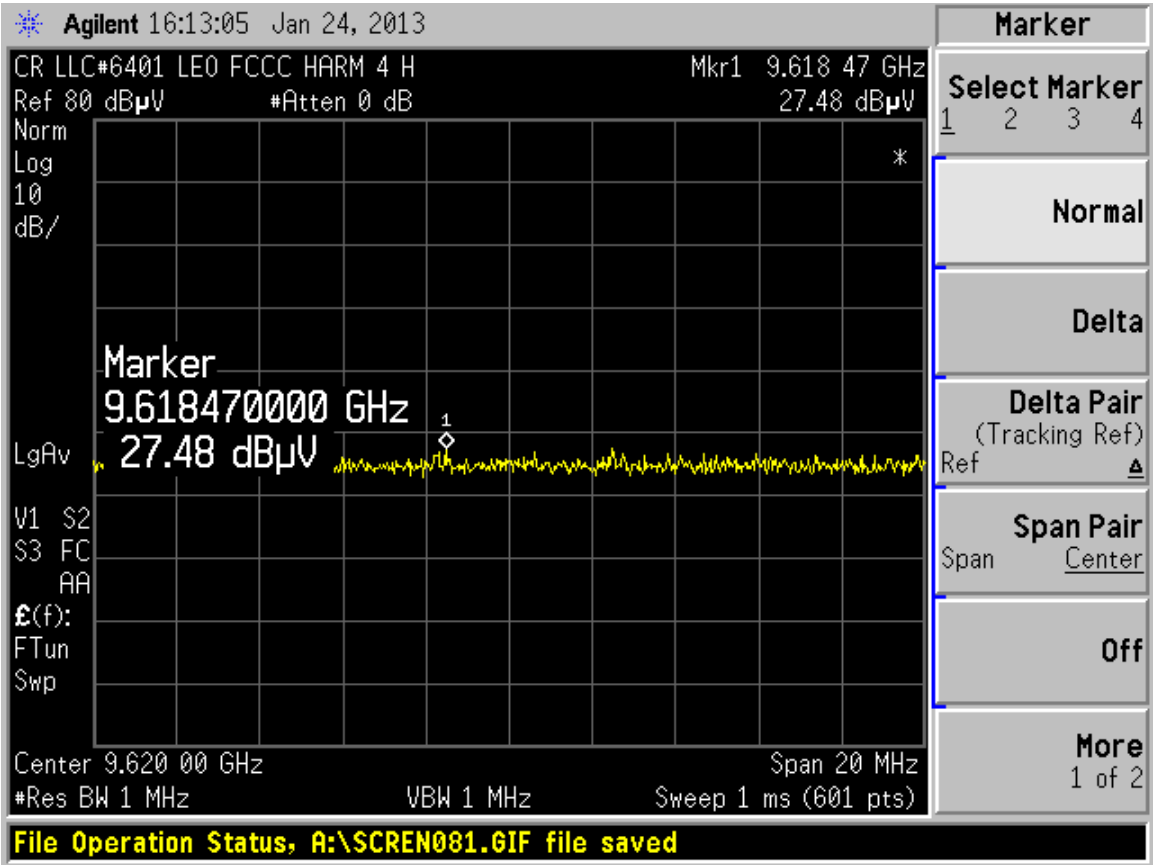
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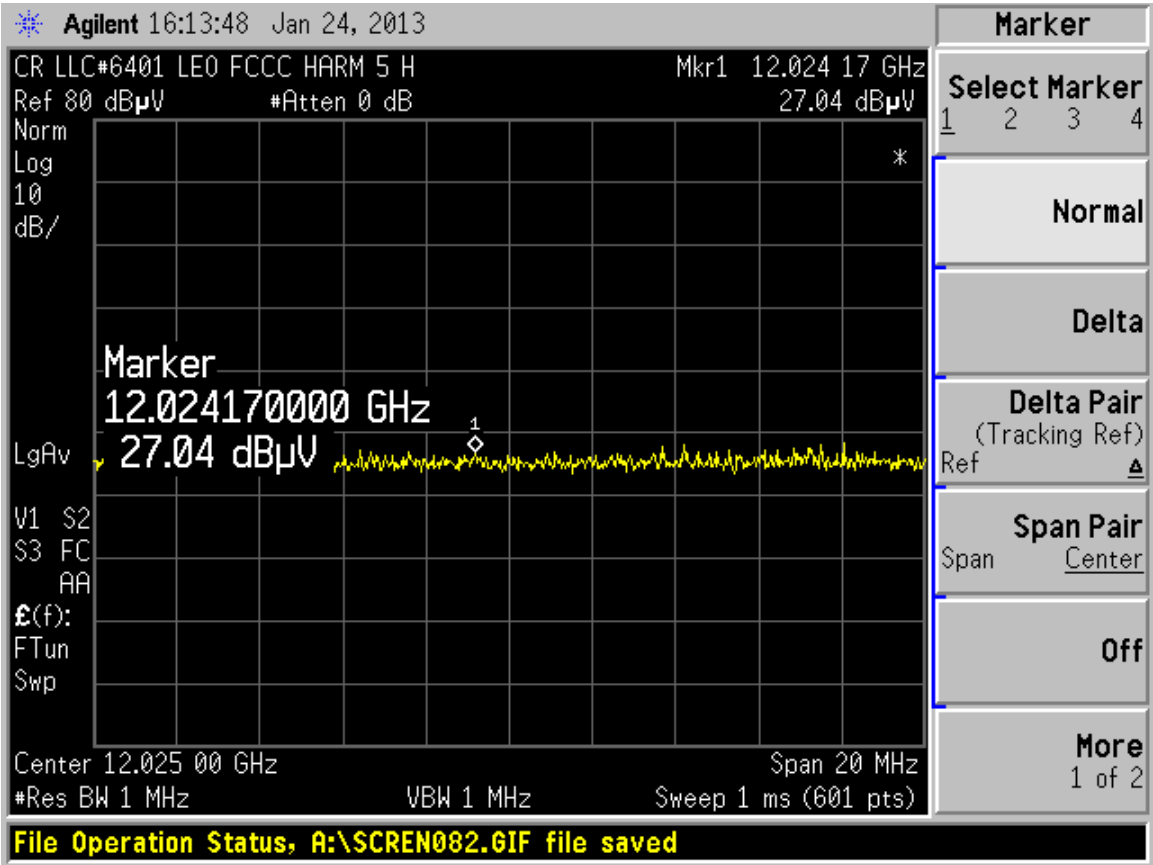
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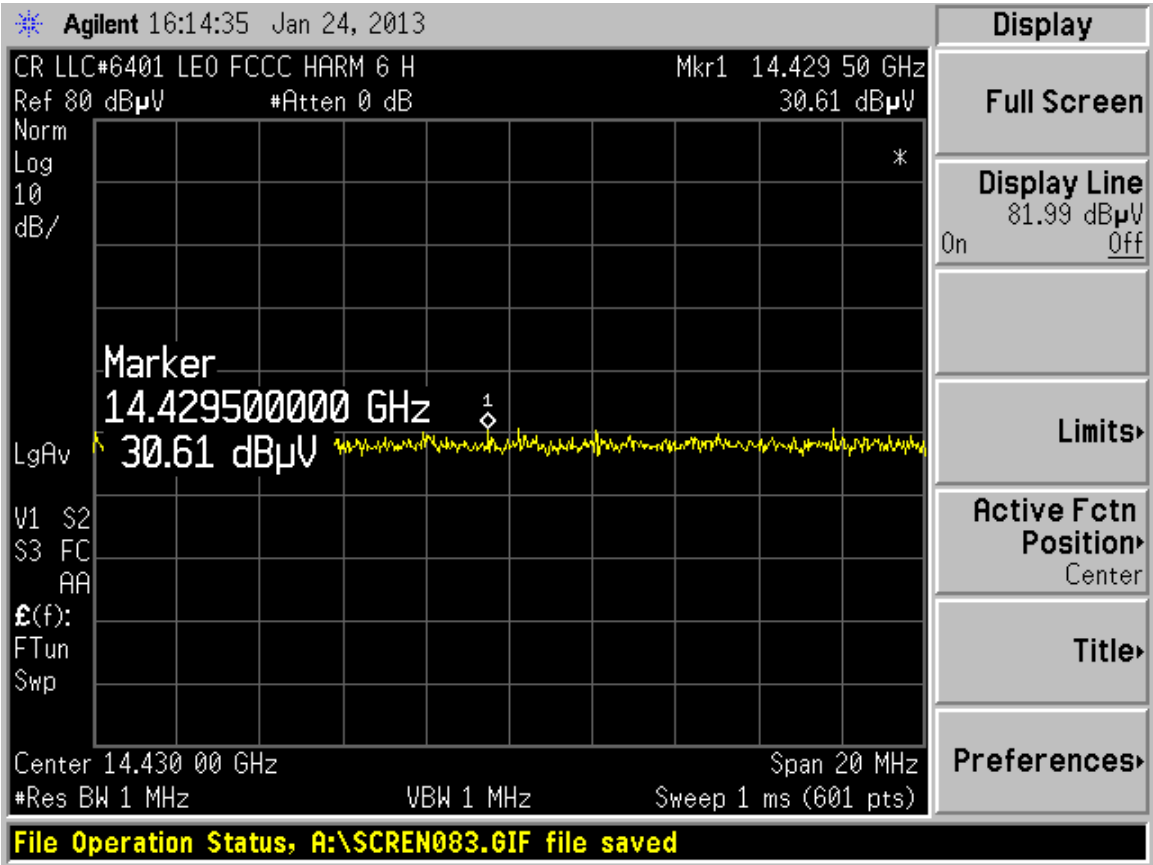
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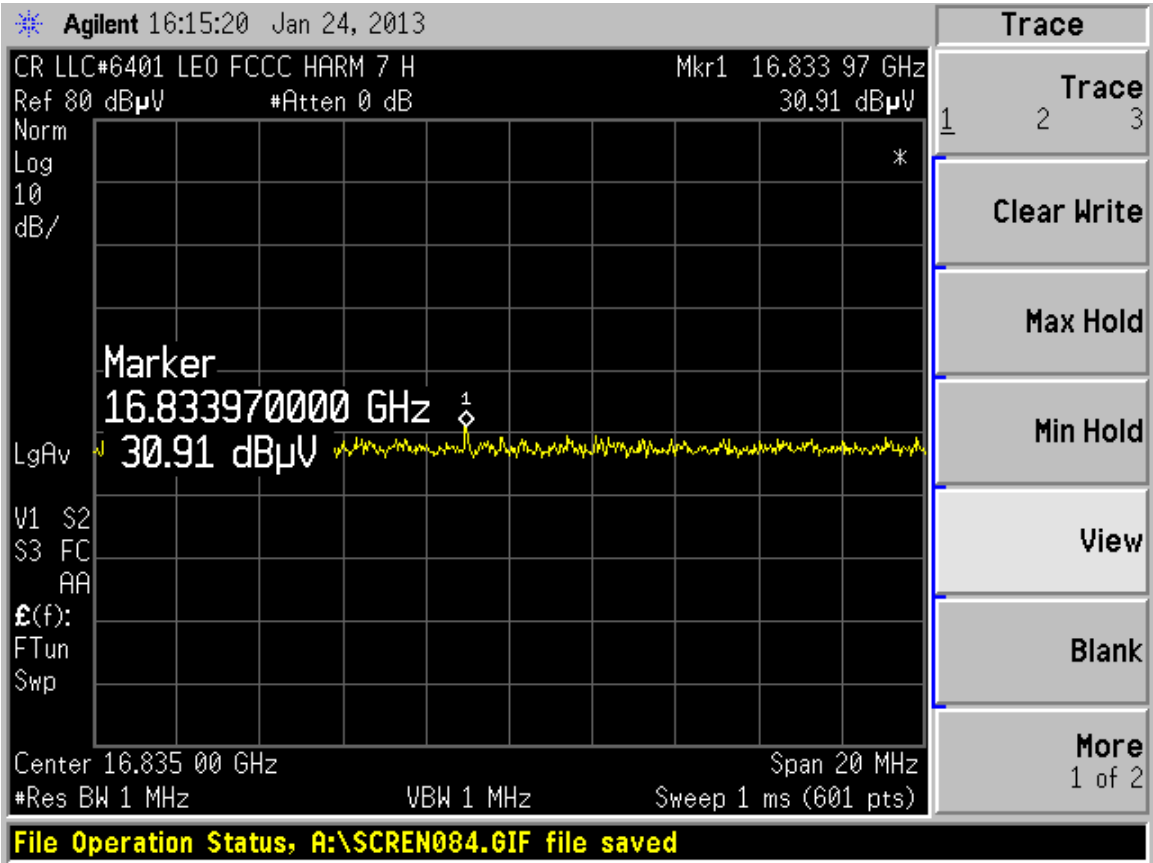
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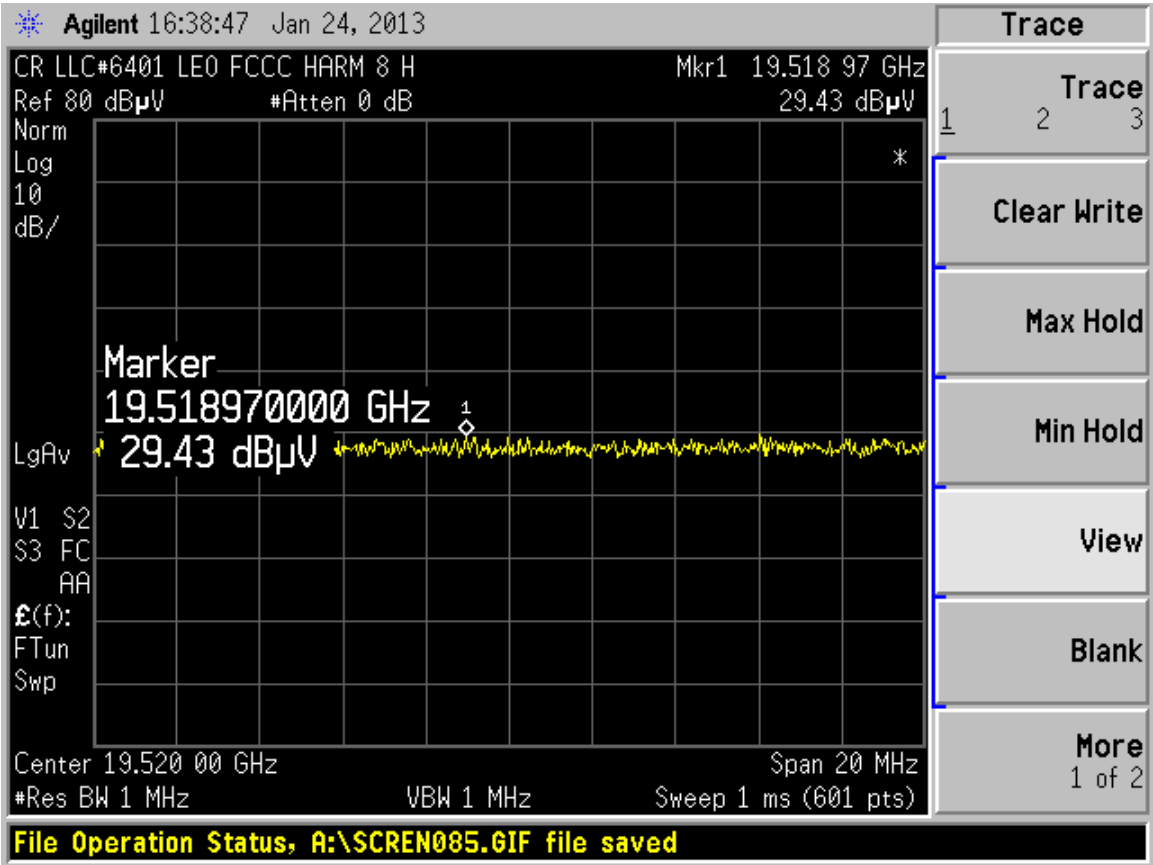
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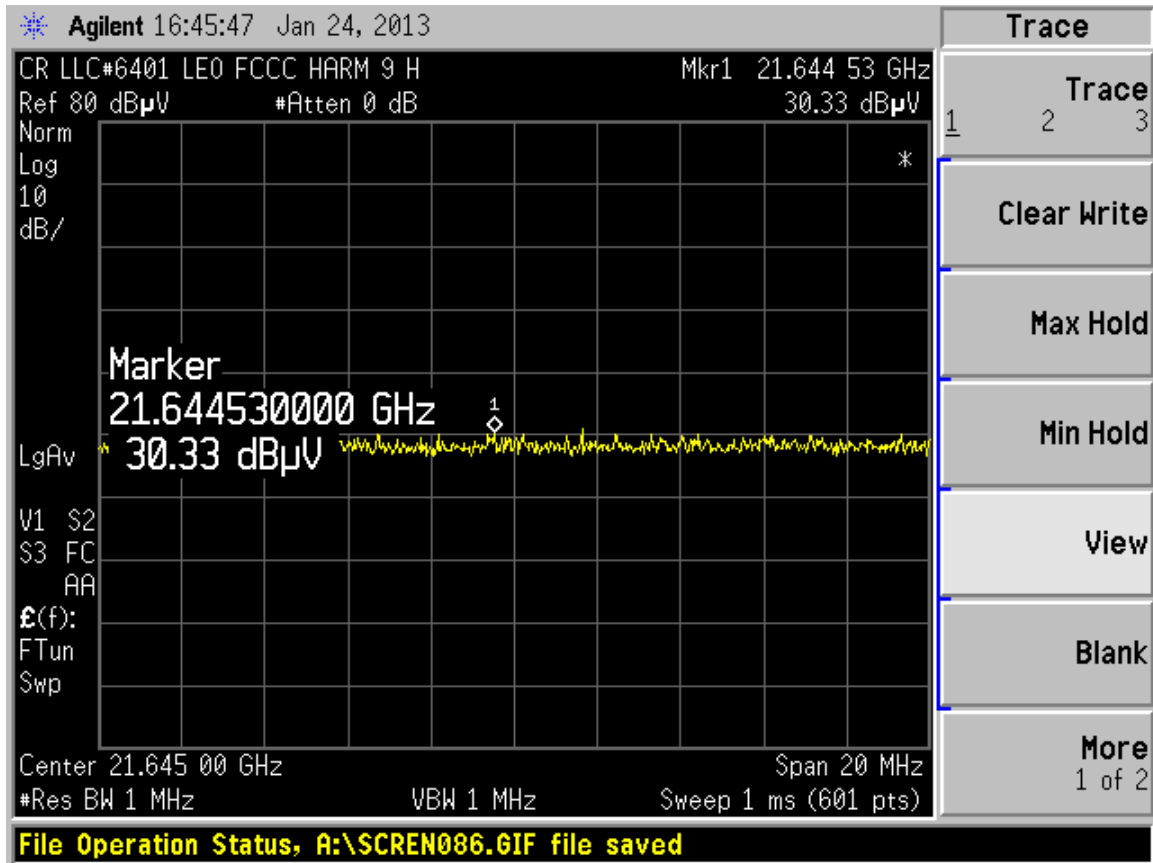
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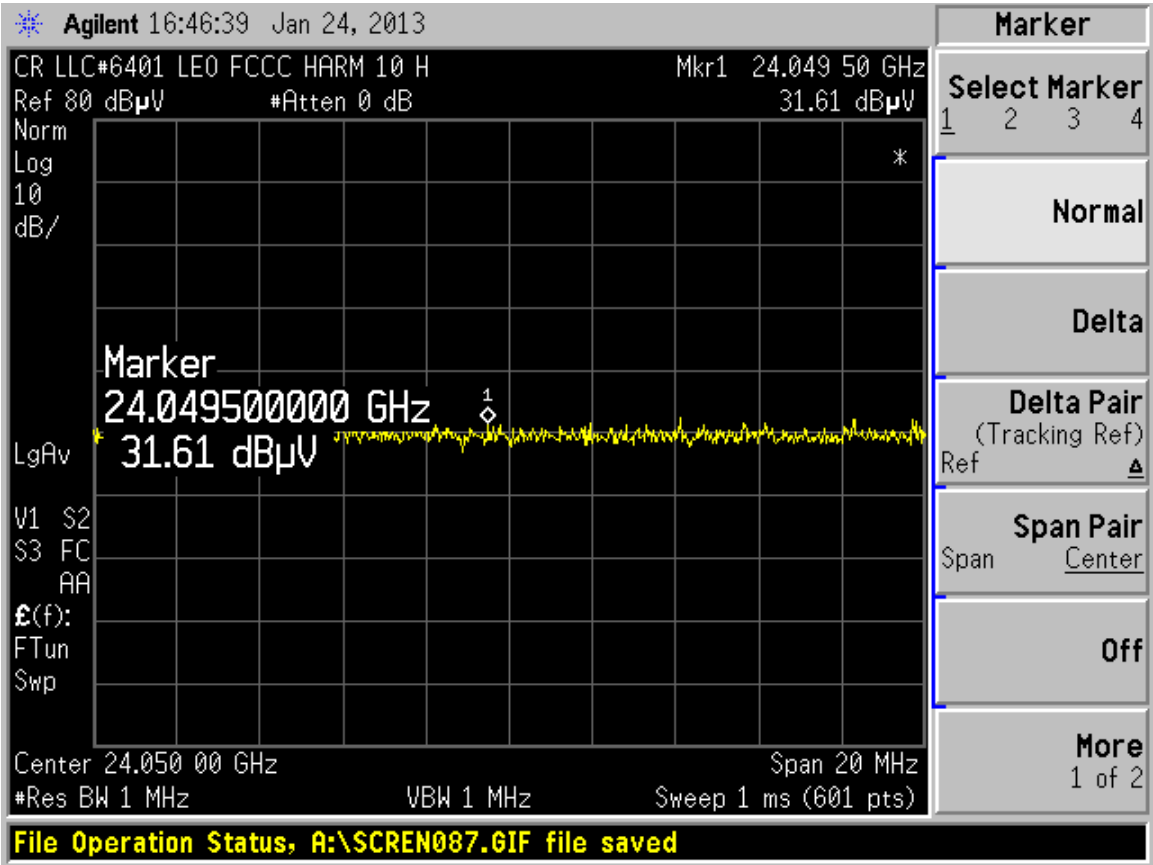
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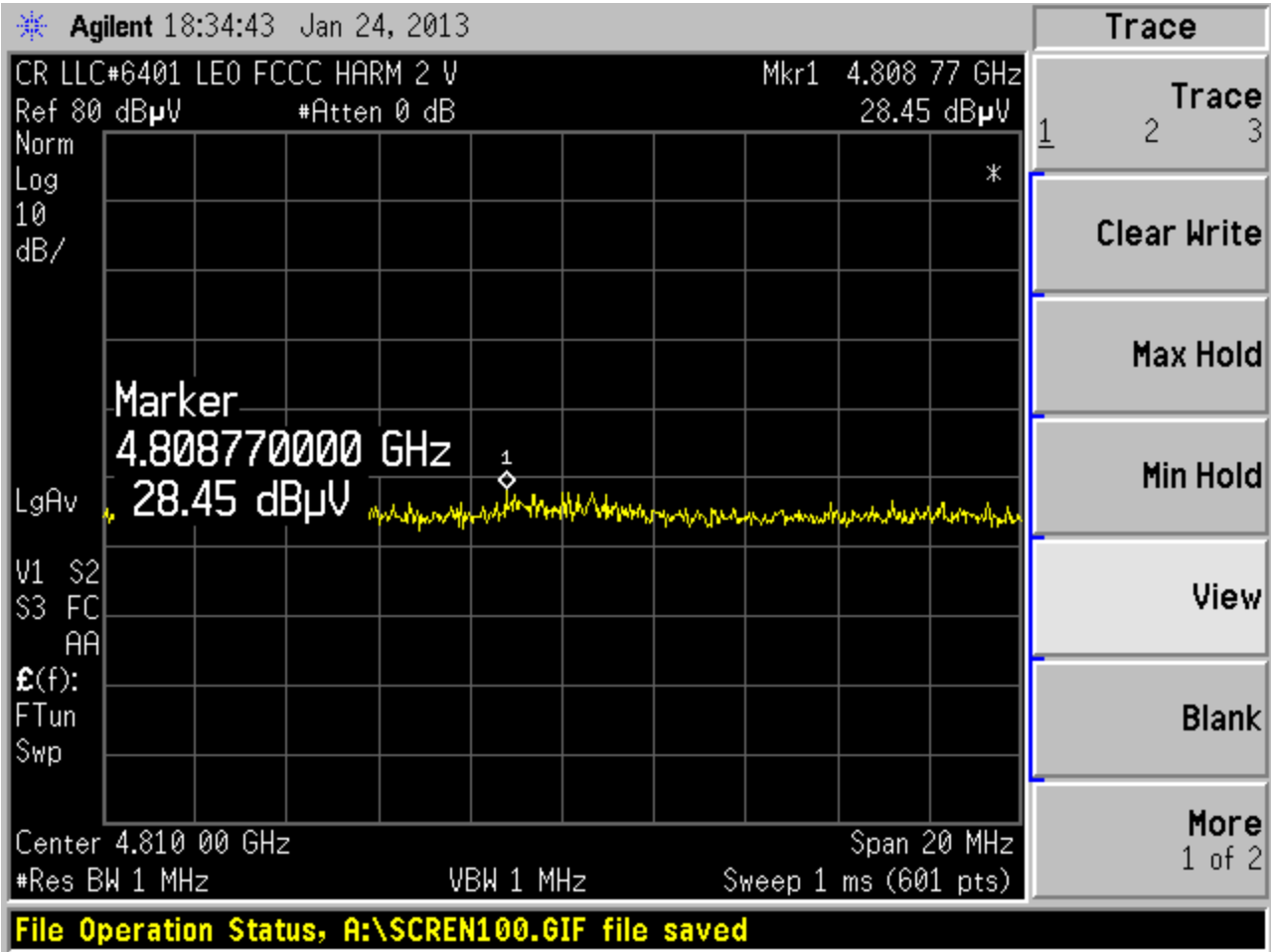
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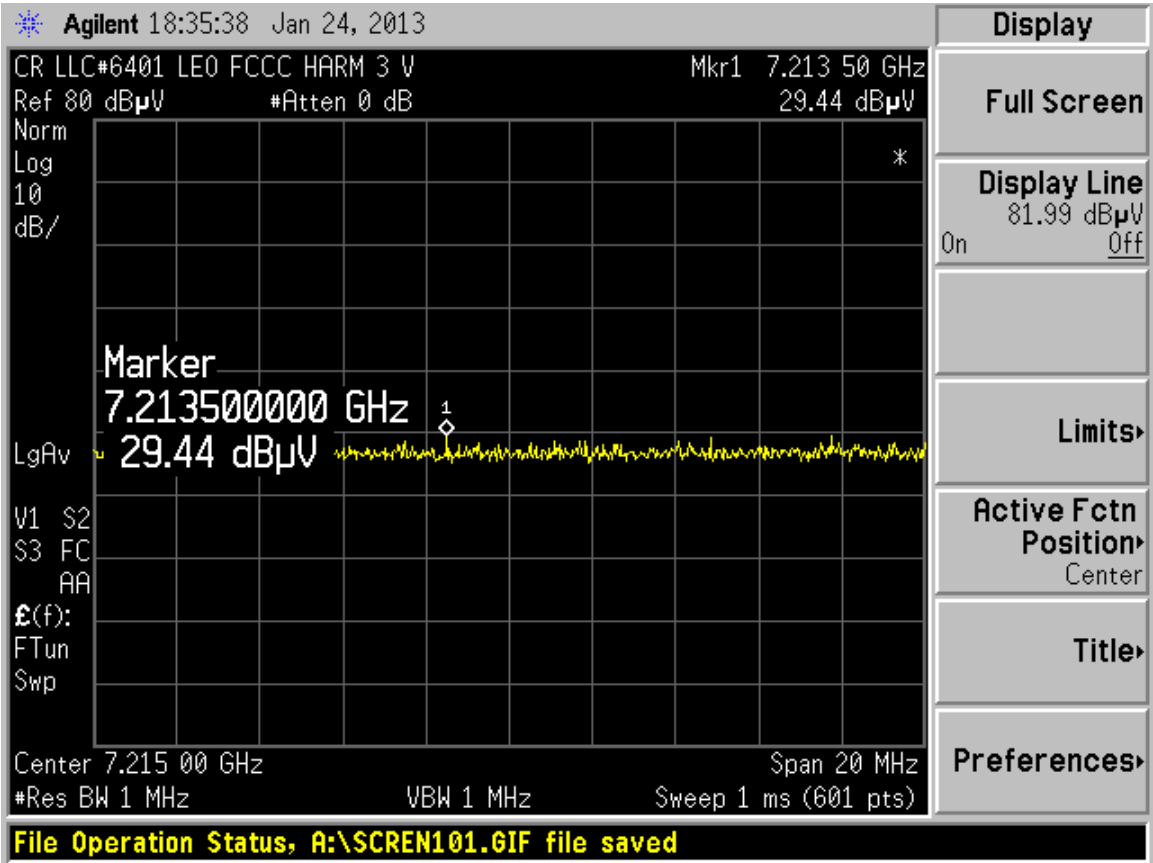
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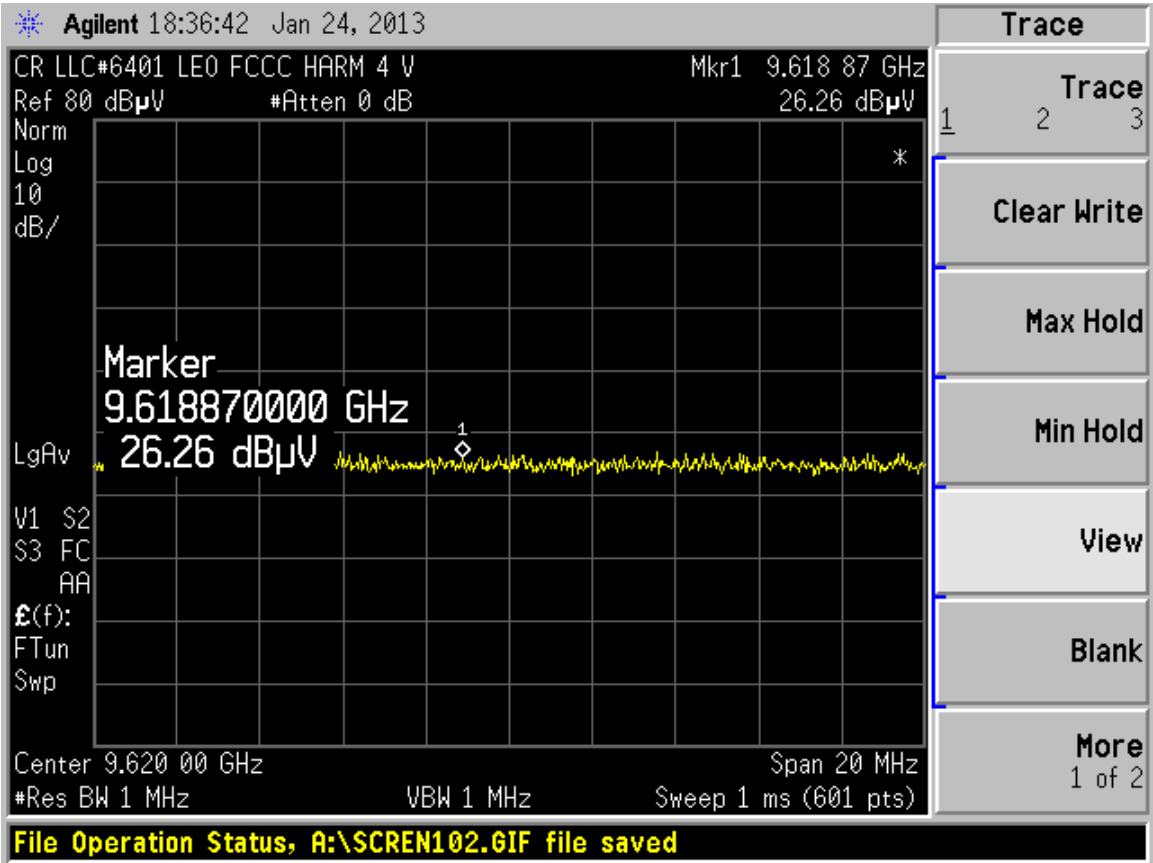
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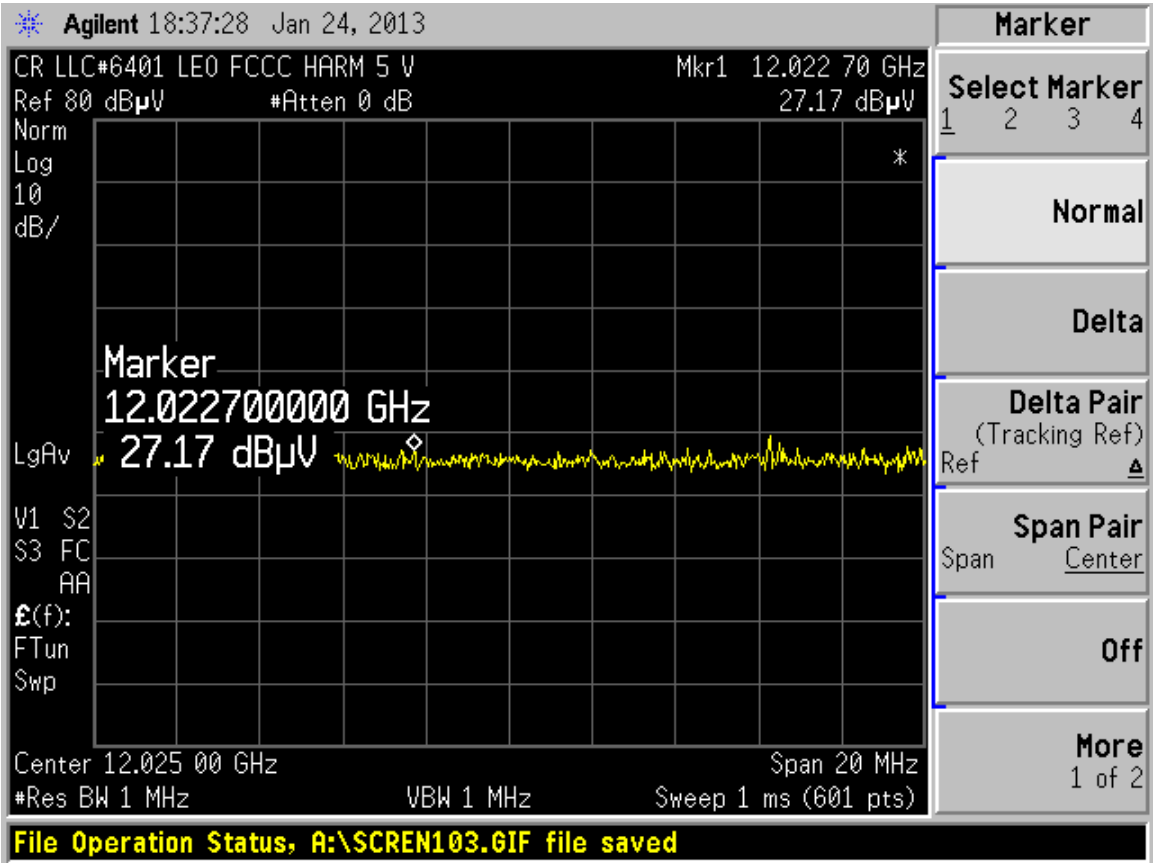
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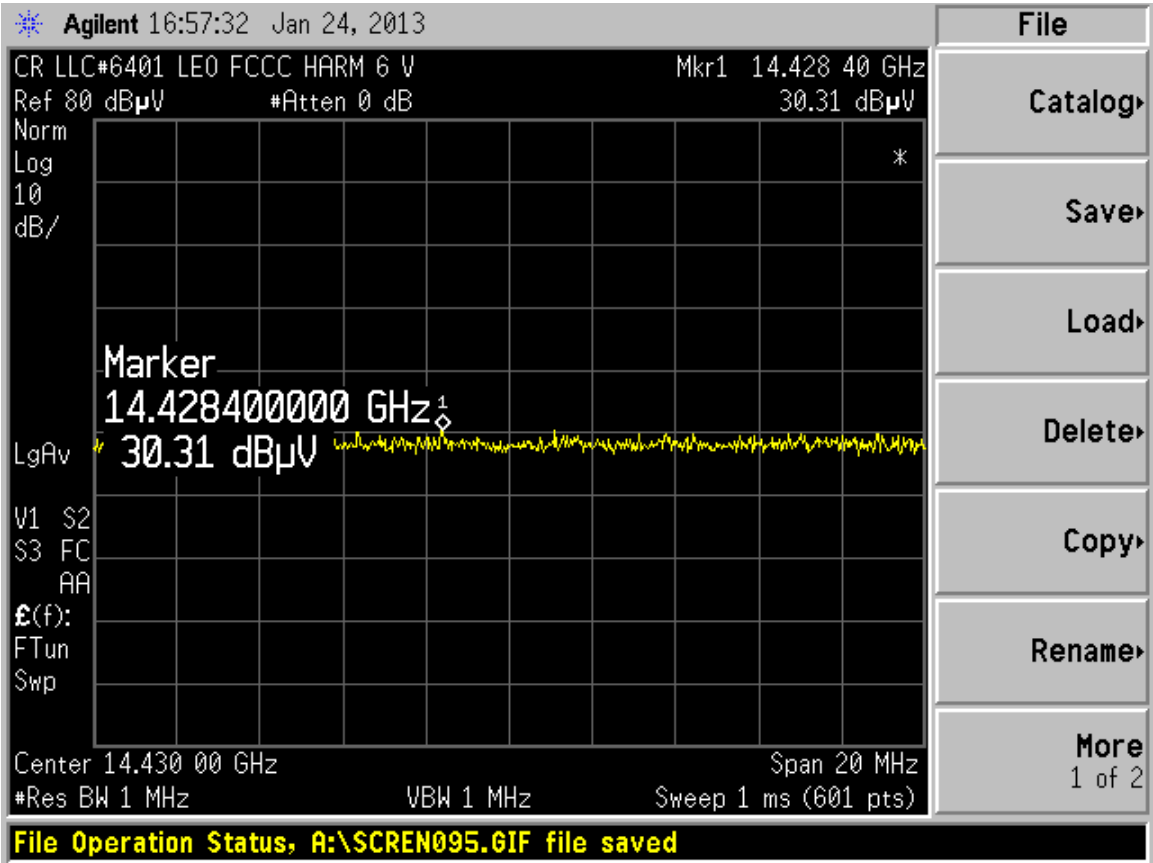
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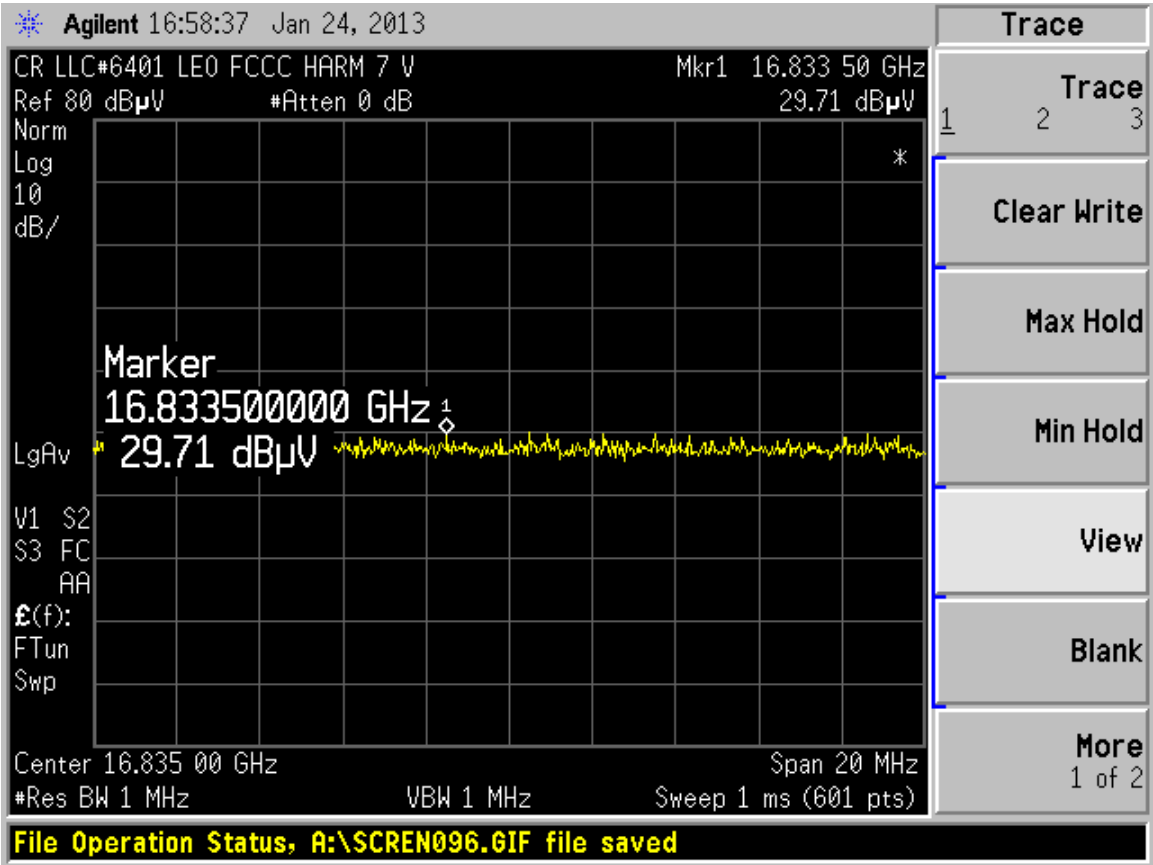
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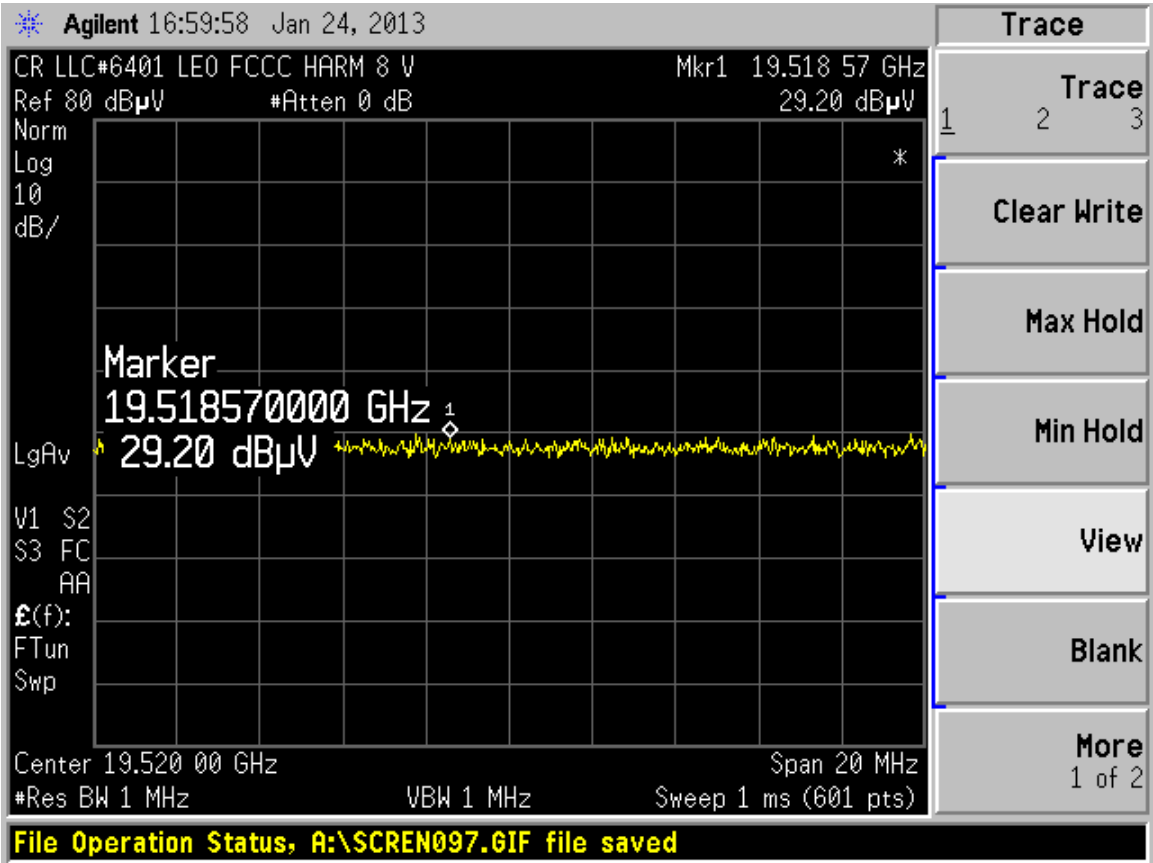
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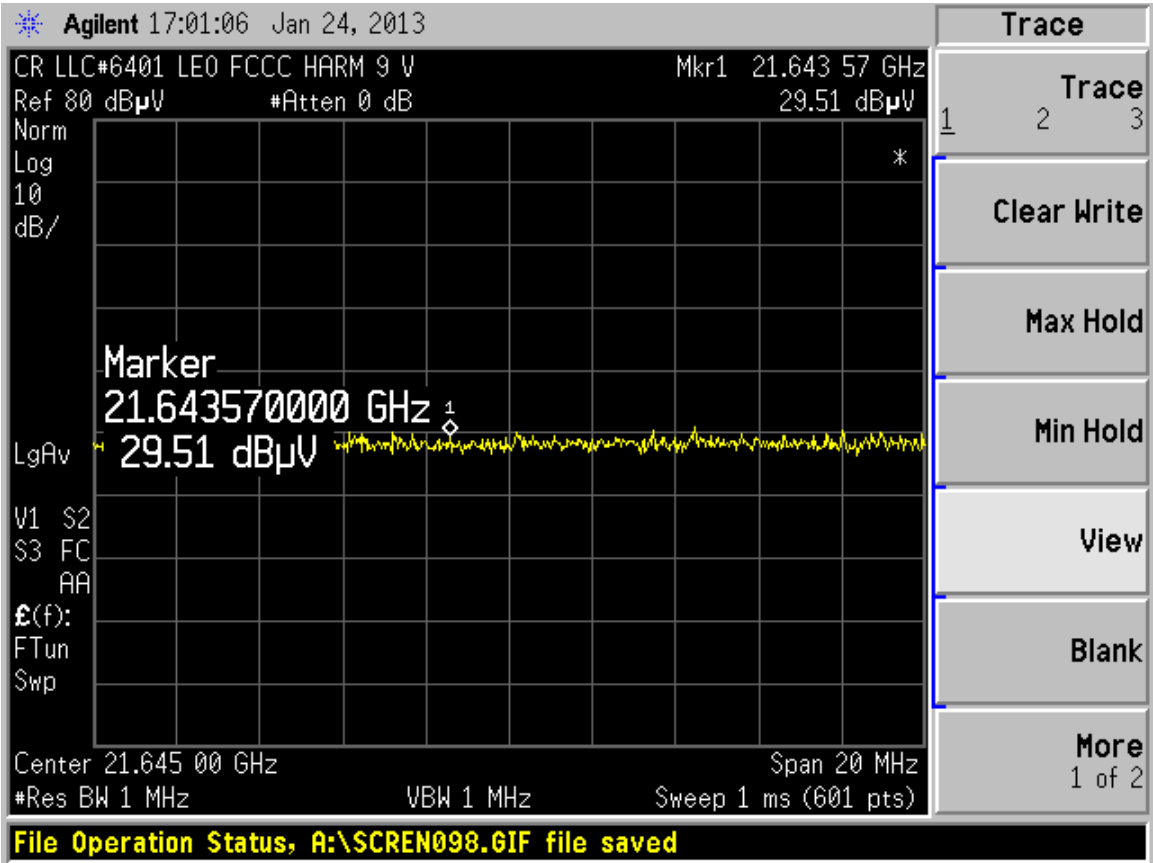
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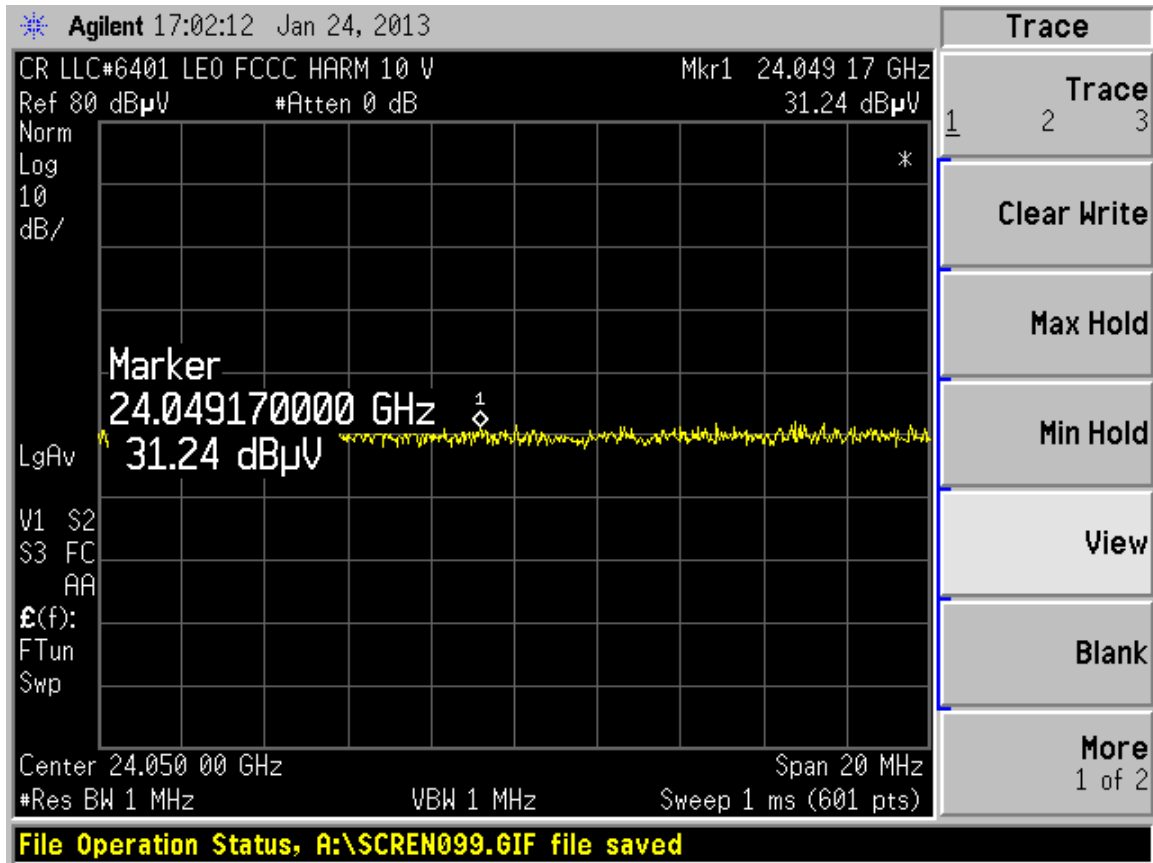
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Harmonics Test Datasheets –Channel 17 2435 MHz

21 pages to follow.

Limits for transmitters
Tested January 24, 2013 -
January 29, 2013

FCC Harmonics Test 2435 MHz										
Measured	Res.	DUT	Measured	Cable	Amplifier	Measurement	FCC	Corrected	Margin	
Field Strength	Bandwidth	Frequency	Frequency	Factor	Gain	Distance	Limit	Field Strength		Polarity
(dBµV)	(Khz)	(Mhz)	(Mhz)	(dBuV)	(dBuV)	(Meters)	(dBuV)	(dBuV/M)	(dBuV/M)	
56.85	1000	2435	2435	2.0	0	3	146.99	58.85	-88.14	Horizontal
29.55	1000	2435	4870	2.2	0	1	54	31.75	-22.25	Horizontal
29.15	1000	2435	7305	2.3	0	1	54	31.45	-22.55	Horizontal
27.42	1000	2435	9740	2.4	0	1	54	29.82	-24.18	Horizontal
28.30	1000	2435	12175	2.4	0	1	54	30.70	-23.30	Horizontal
29.77	1000	2435	14610	2.6	0	1	54	32.37	-21.63	Horizontal
29.29	1000	2435	17045	2.7	0	1	54	31.99	-22.01	Horizontal
29.38	1000	2435	19480	2.8	0	1	54	32.18	-21.82	Horizontal
30.72	1000	2435	21915	2.8	0	1	54	33.52	-20.48	Horizontal
31.34	1000	2435	24350	2.9	0	1	54	34.24	-19.76	Horizontal
65.98	1000	2435	2435	2.0	0	3	146.99	67.98	-79.01	Vertical
30.26	1000	2435	4870	2.2	0	1	54	32.46	-21.54	Vertical
30.57	1000	2435	7305	2.3	0	1	54	32.87	-21.13	Vertical
26.35	1000	2435	9740	2.4	0	1	54	28.75	-25.25	Vertical
29.10	1000	2435	12175	2.4	0	1	54	31.50	-22.50	Vertical
29.99	1000	2435	14610	2.6	0	1	54	32.59	-21.41	Vertical
29.62	1000	2435	17045	2.7	0	1	54	32.32	-21.68	Vertical
28.87	1000	2435	19480	2.8	0	1	54	31.67	-22.33	Vertical
31.68	1000	2435	21915	2.8	0	1	54	34.48	-19.52	Vertical
31.50	1000	2435	24350	2.9	0	1	54	34.40	-19.60	Vertical
*Antenna factors are pre-calculated into Measured Field Strength (dBµV)										
Unit Under Test: Leo Outlet Channel 17										

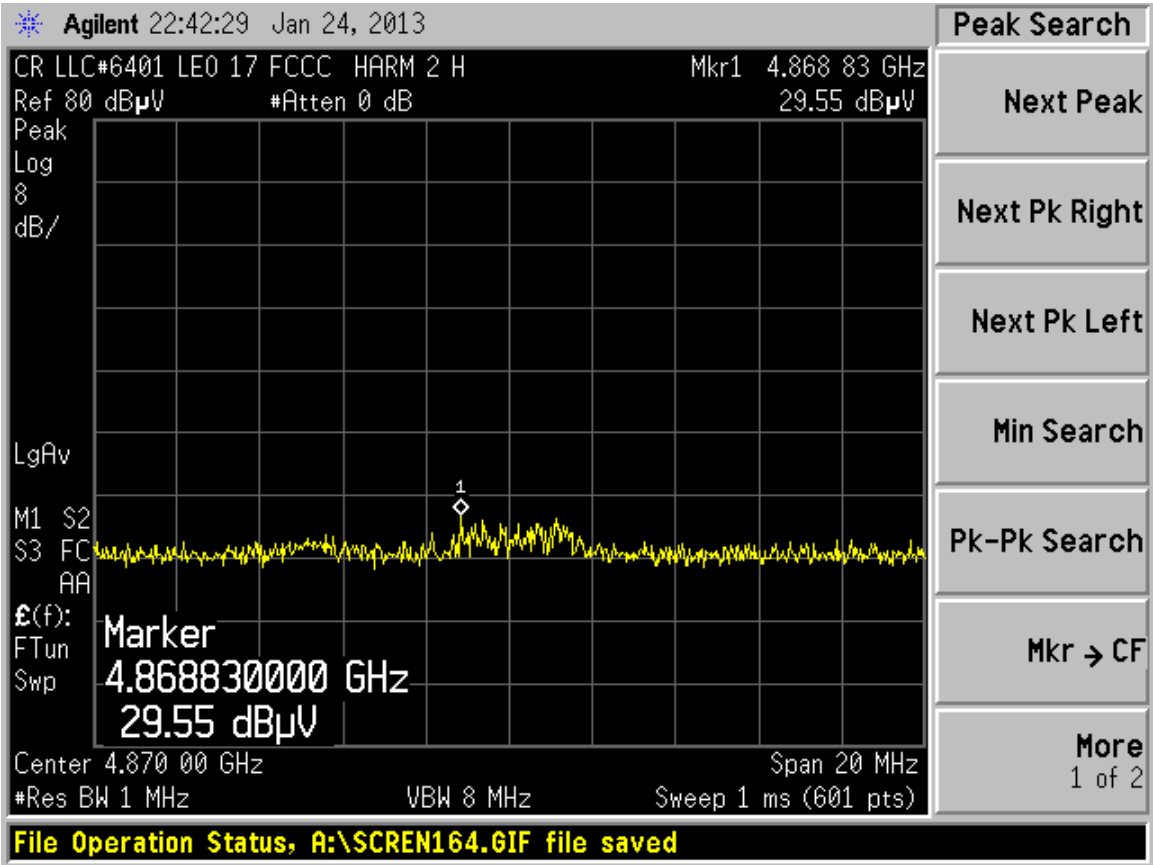
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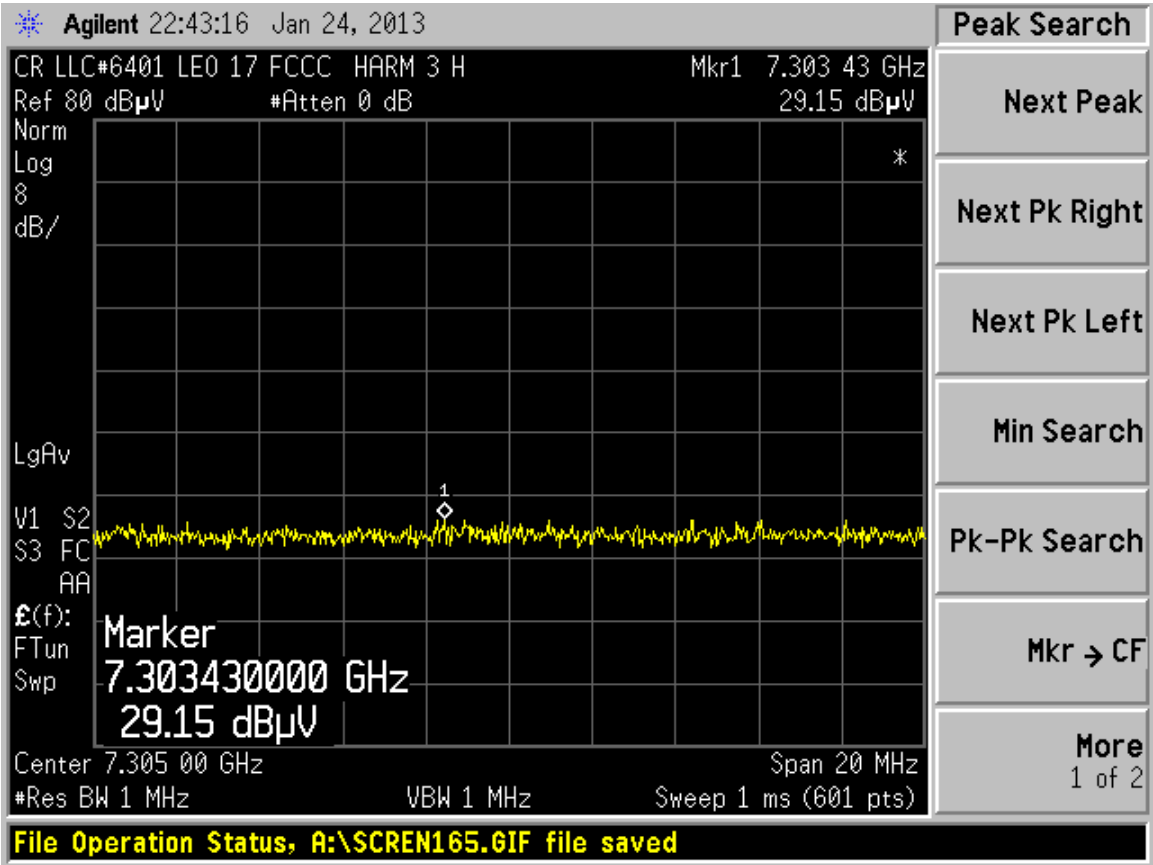
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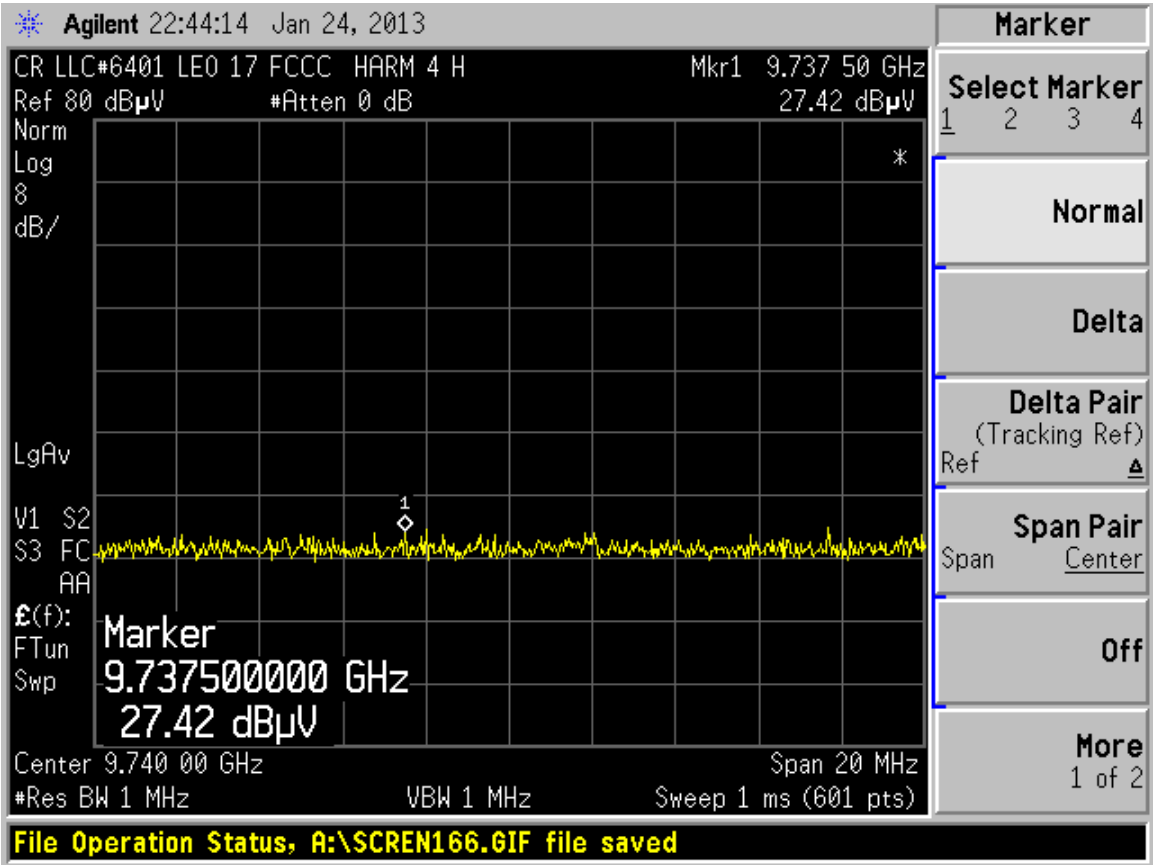
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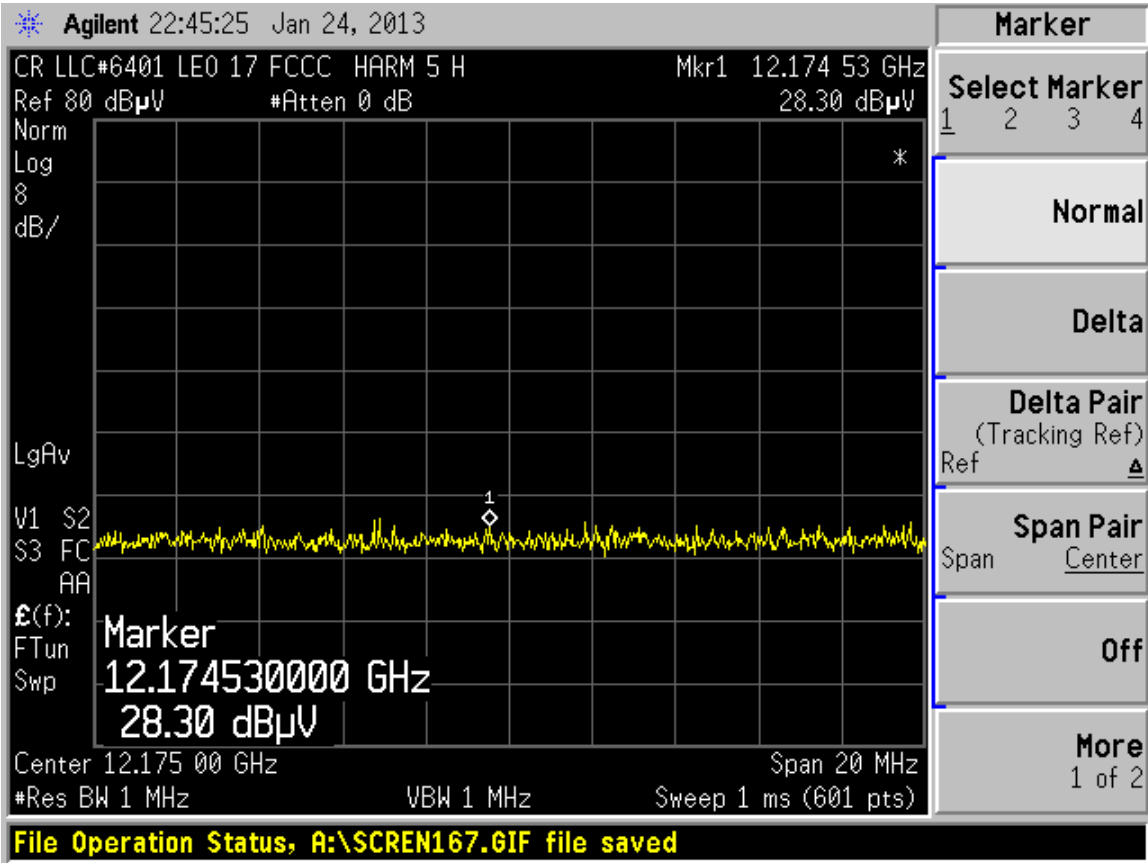
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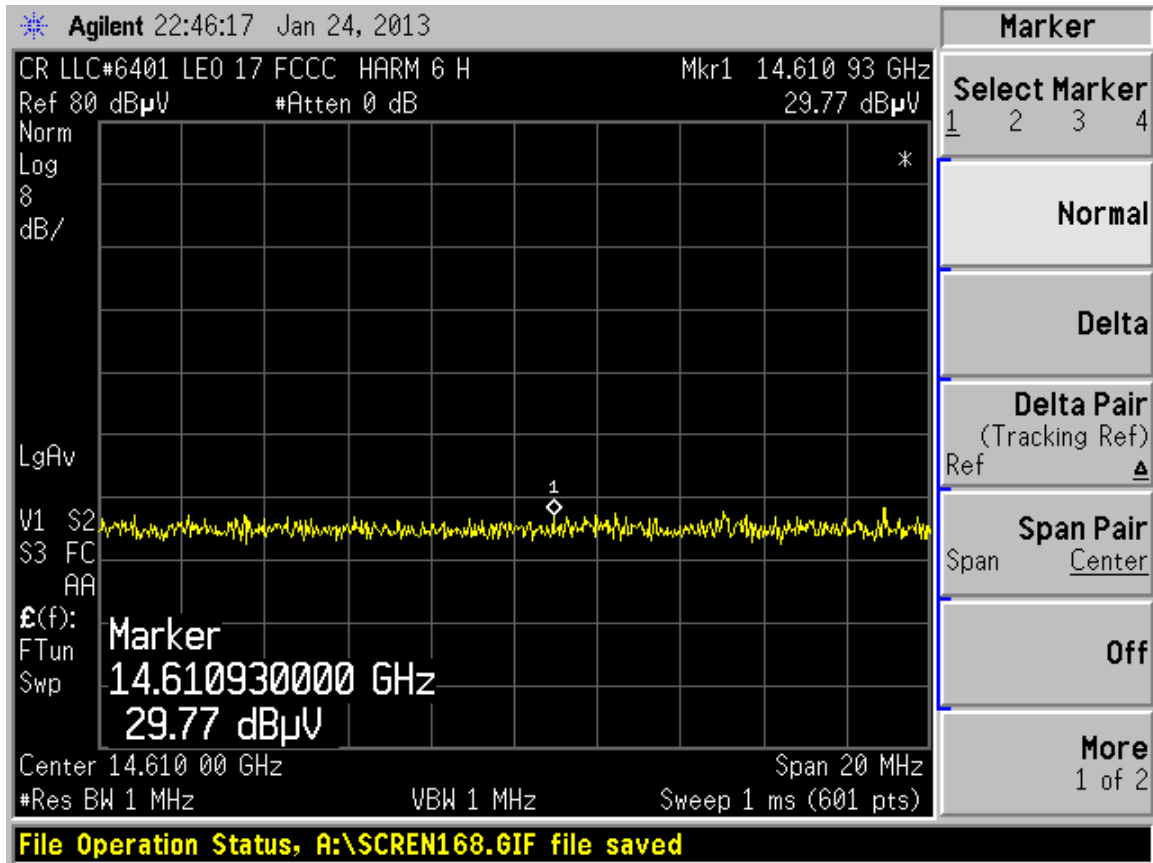
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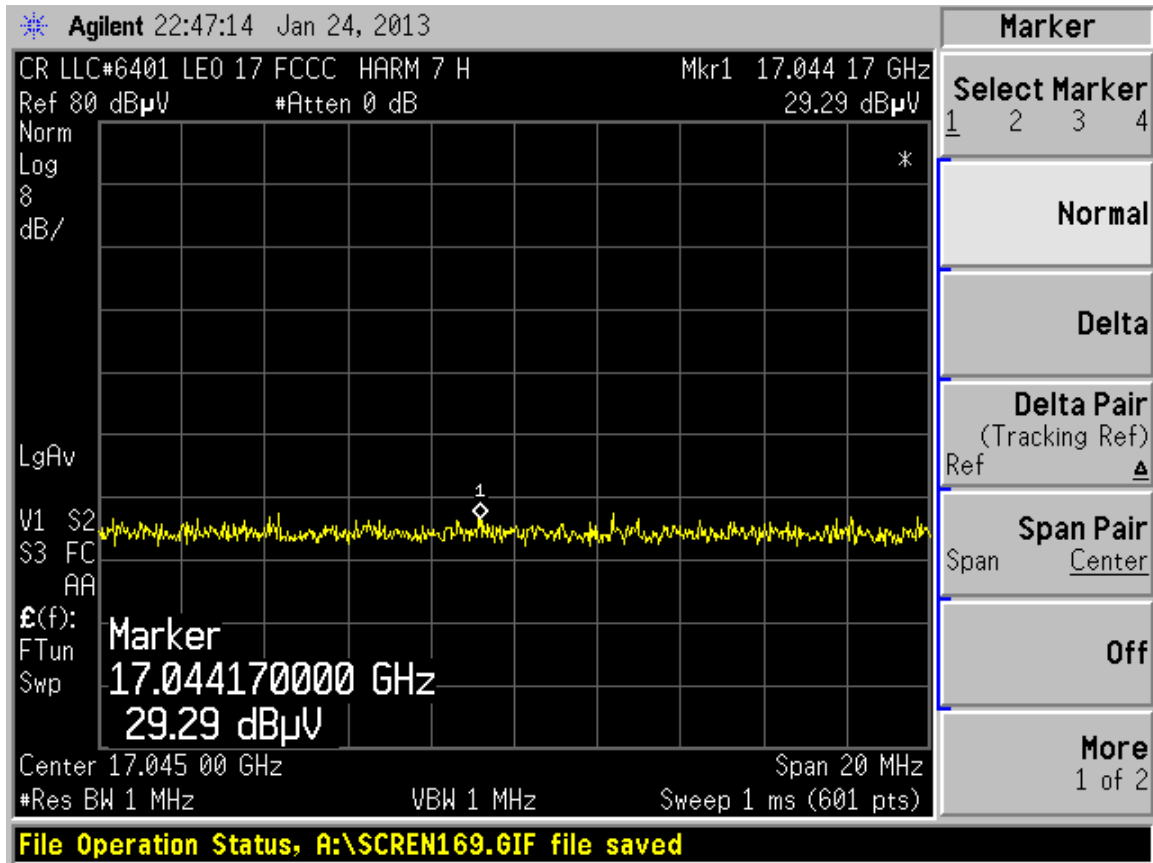
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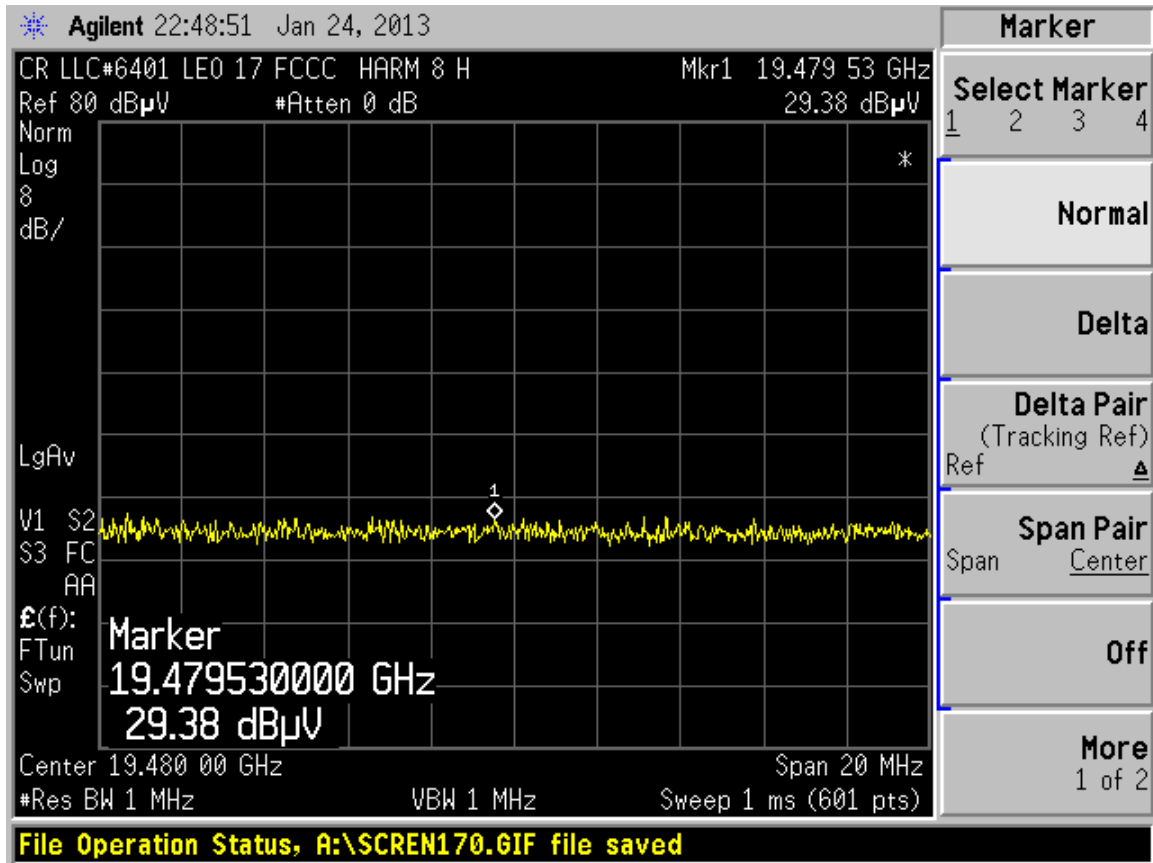
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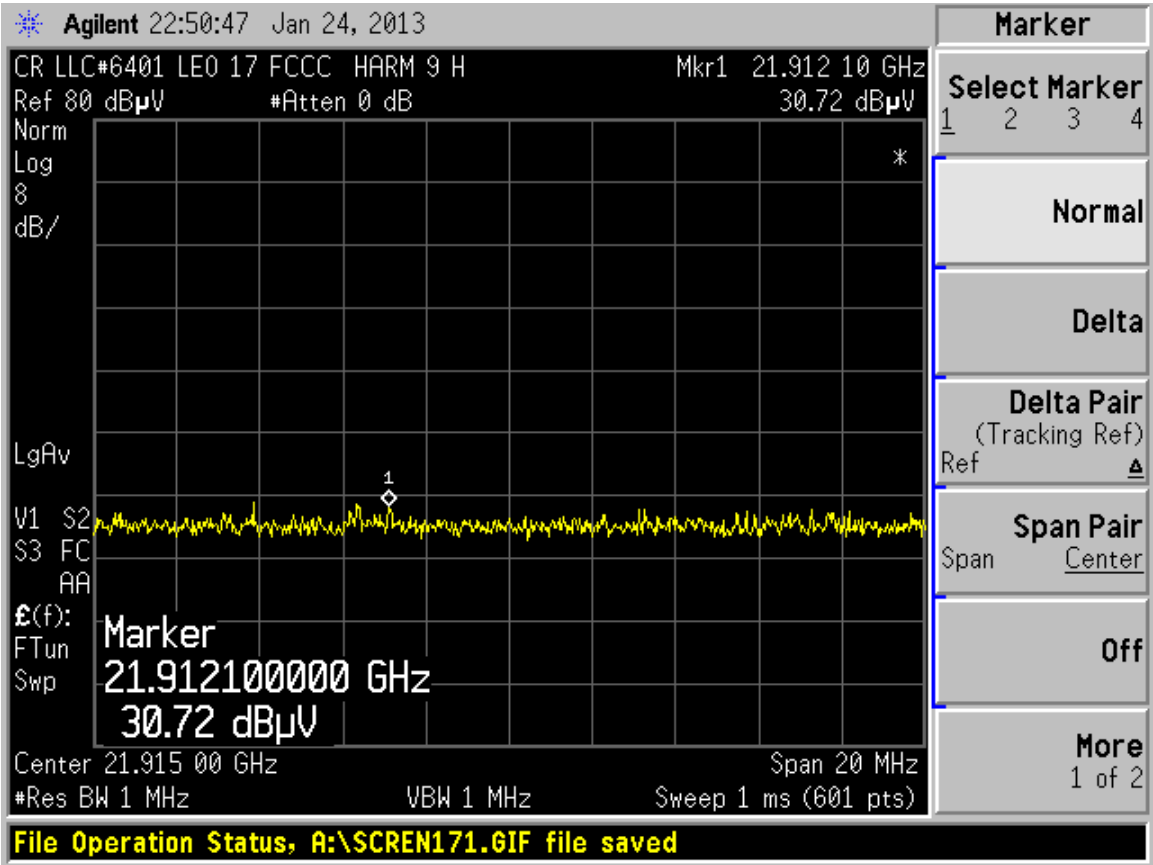
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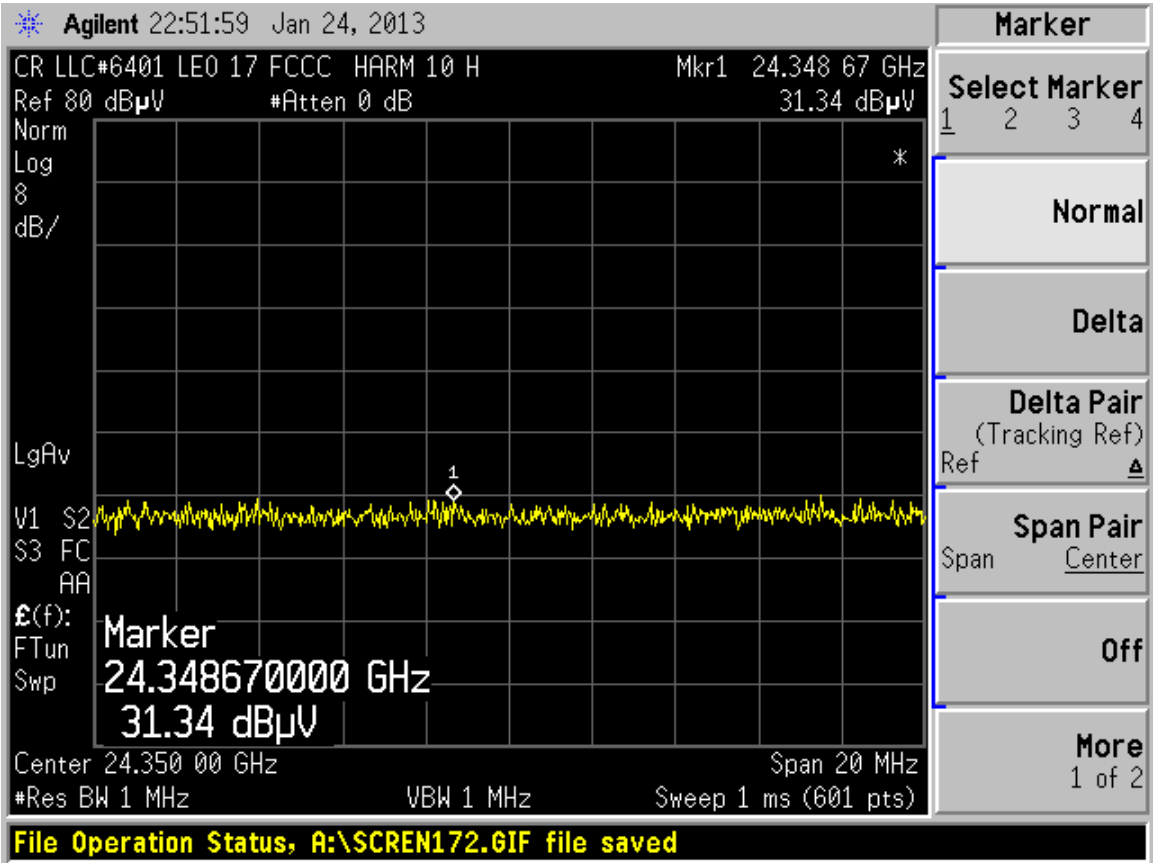
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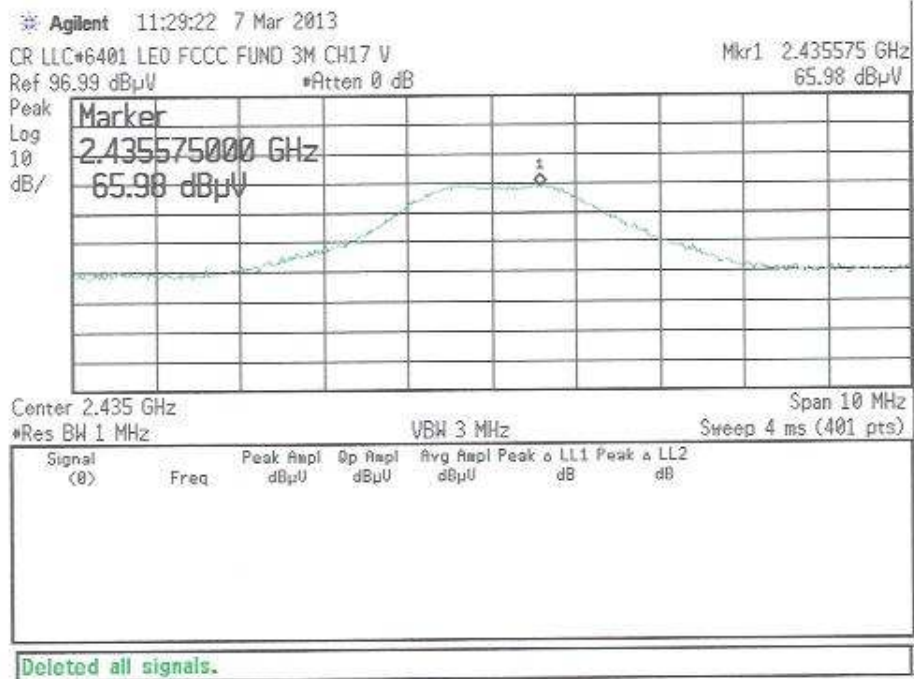
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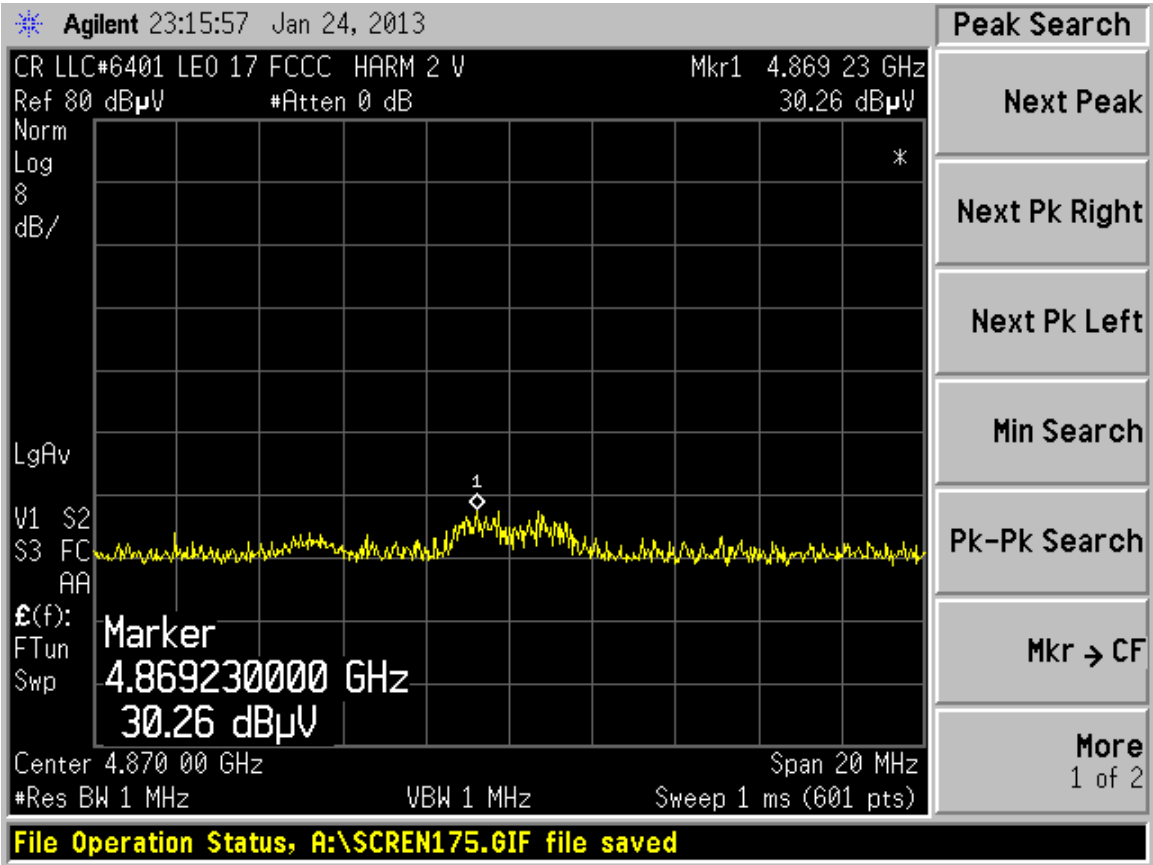
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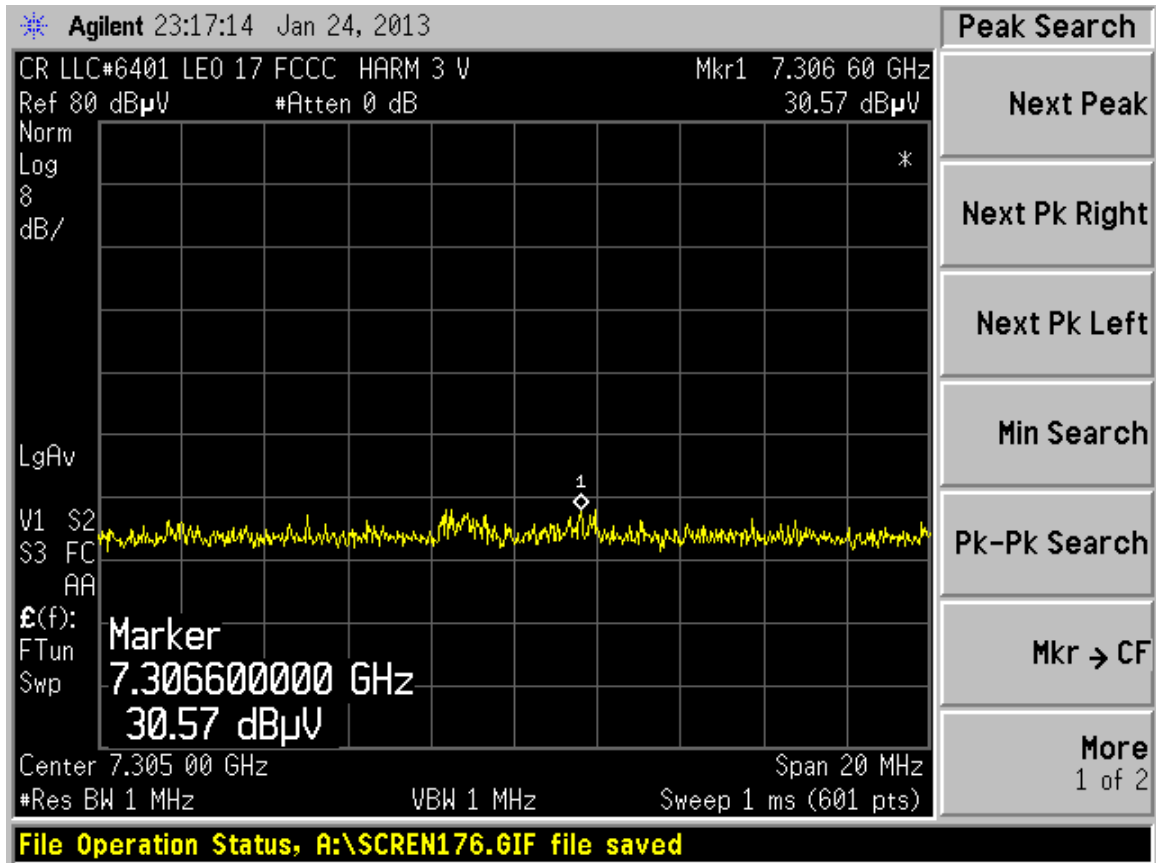
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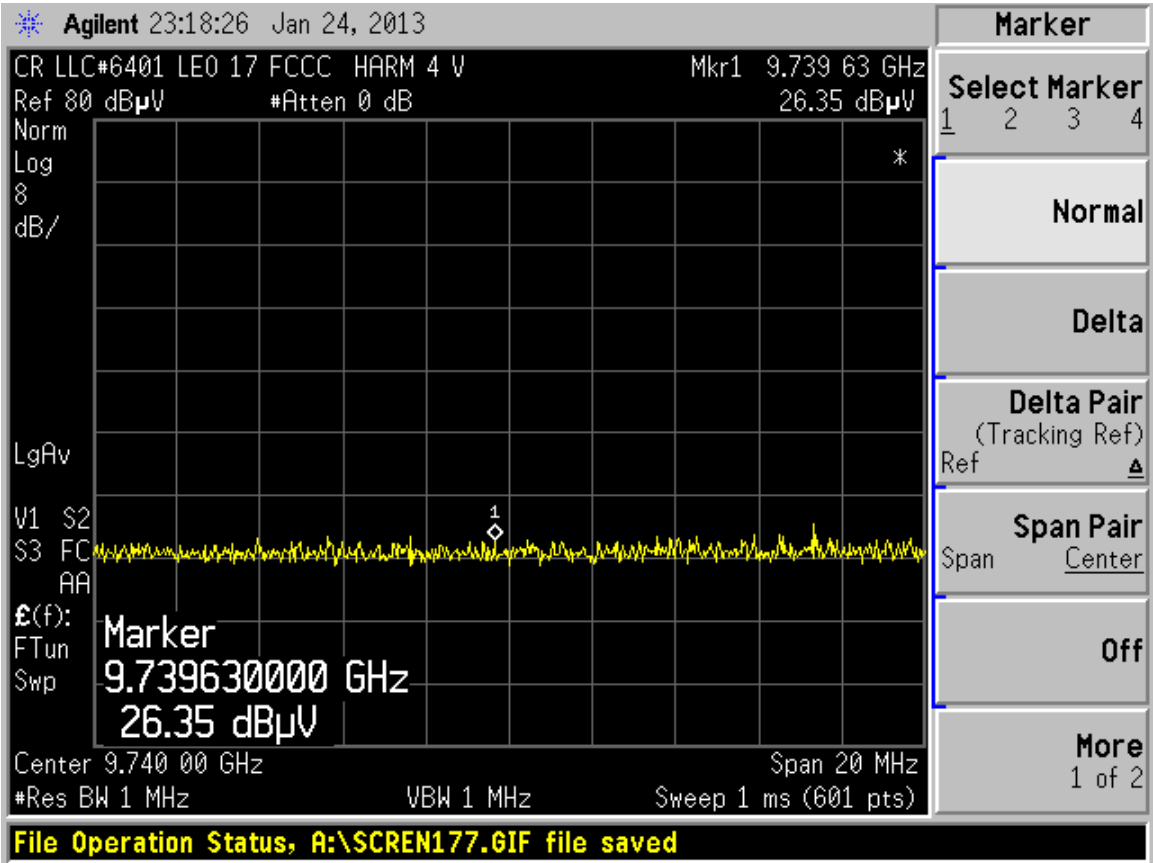
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Cortland Research LLC
Leo Outlet

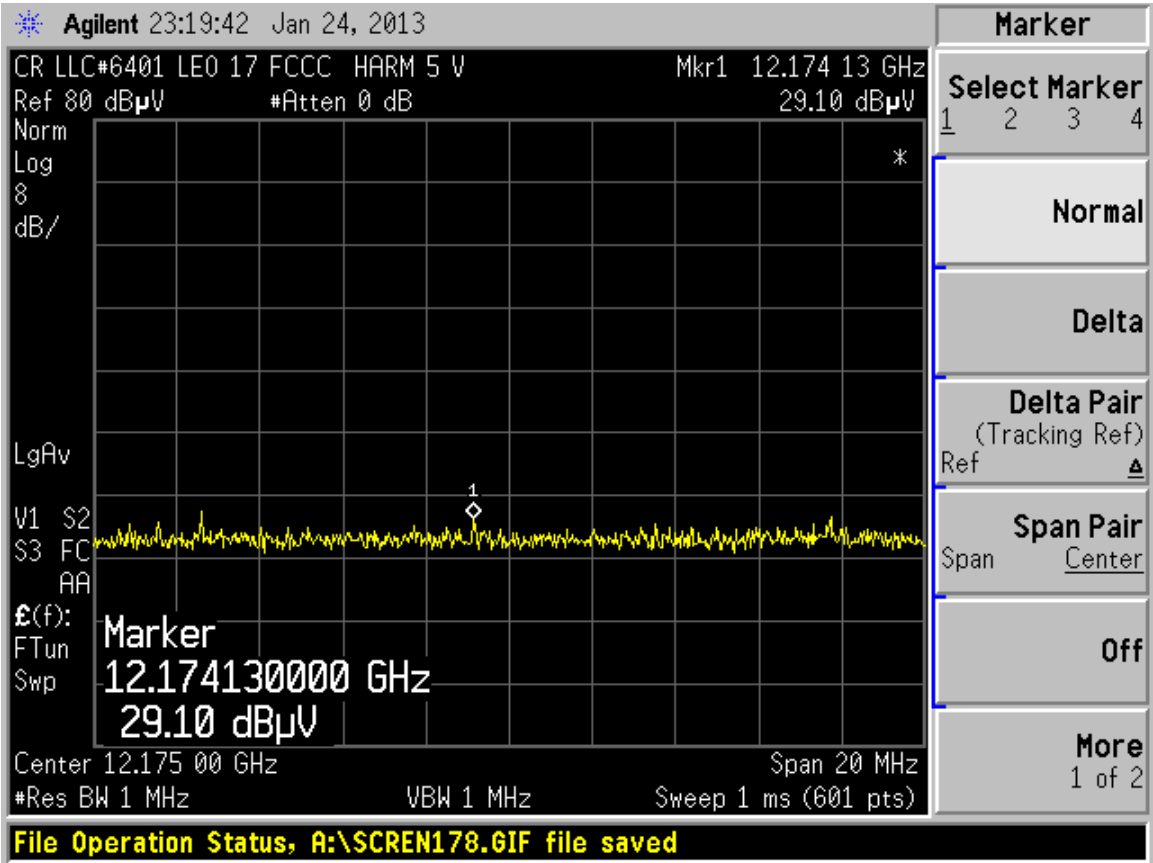
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Cortland Research LLC Leo Outlet	Project Number: 6401



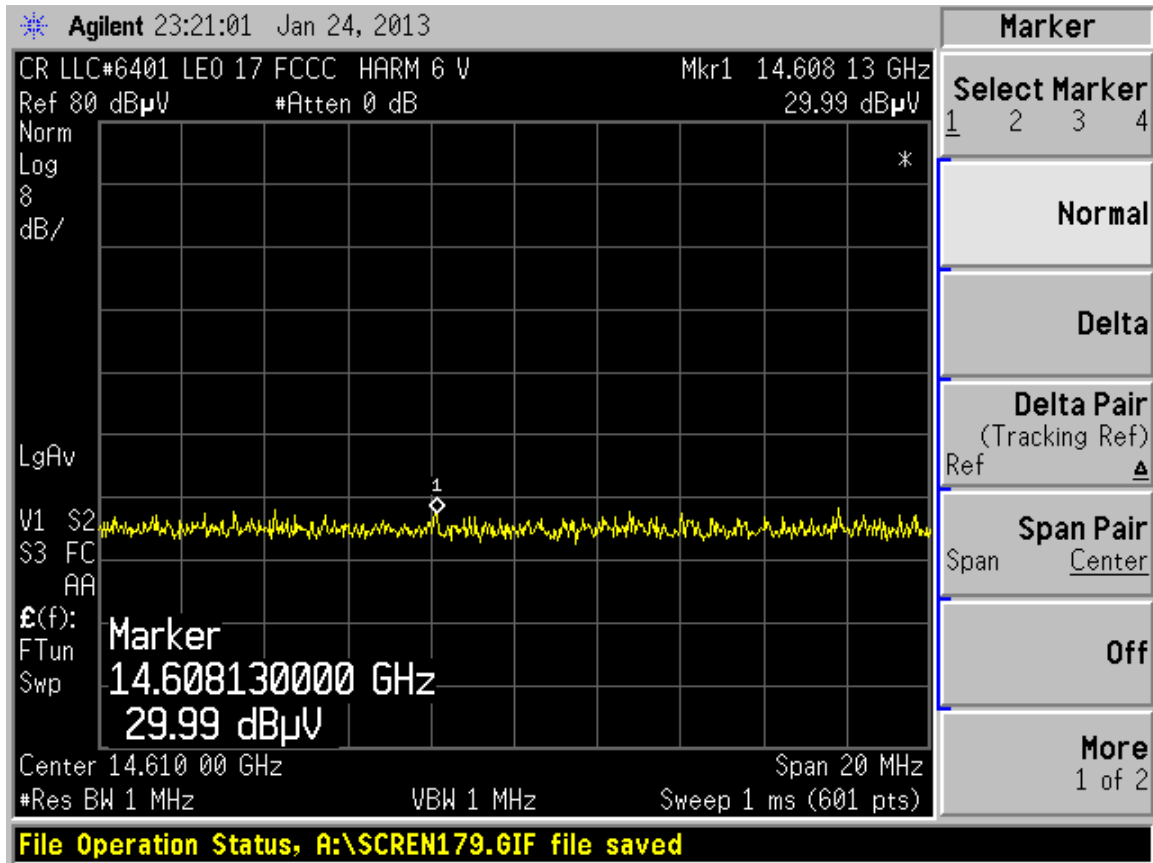
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Cortland Research LLC Leo Outlet	Project Number: 6401



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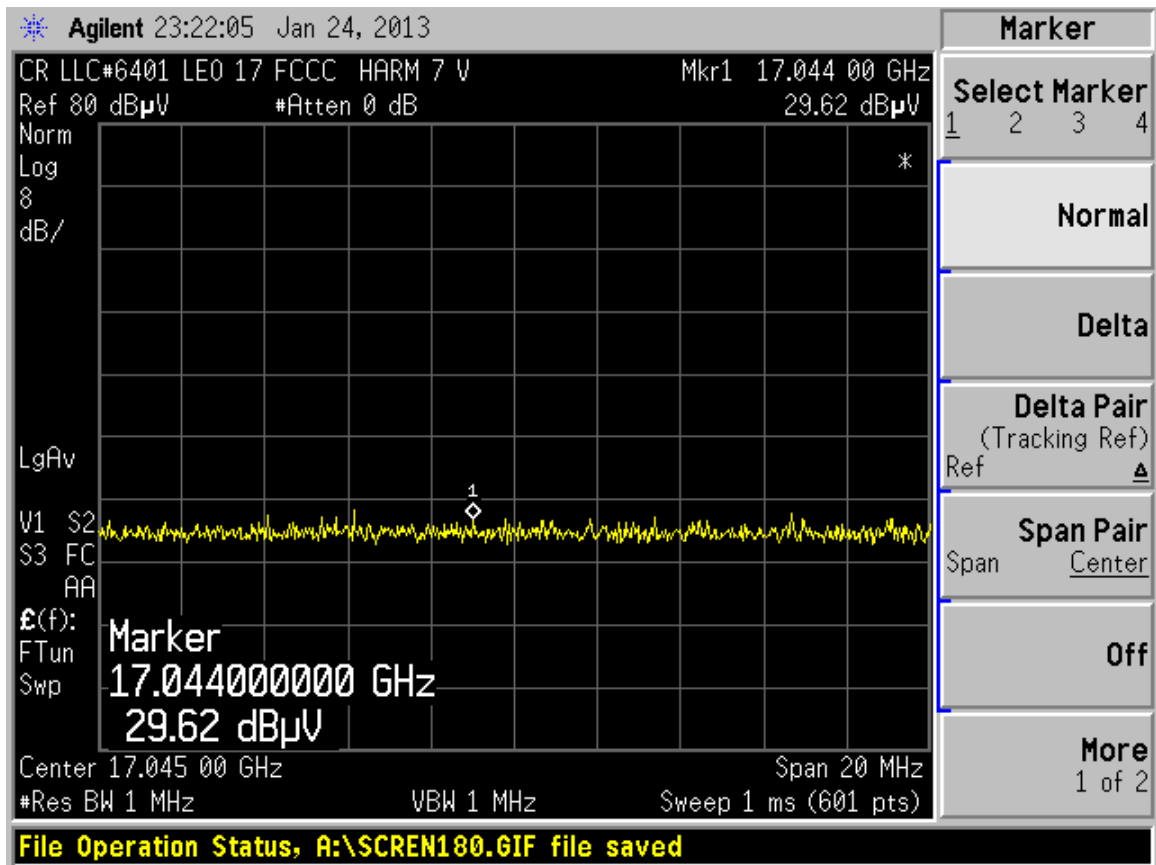
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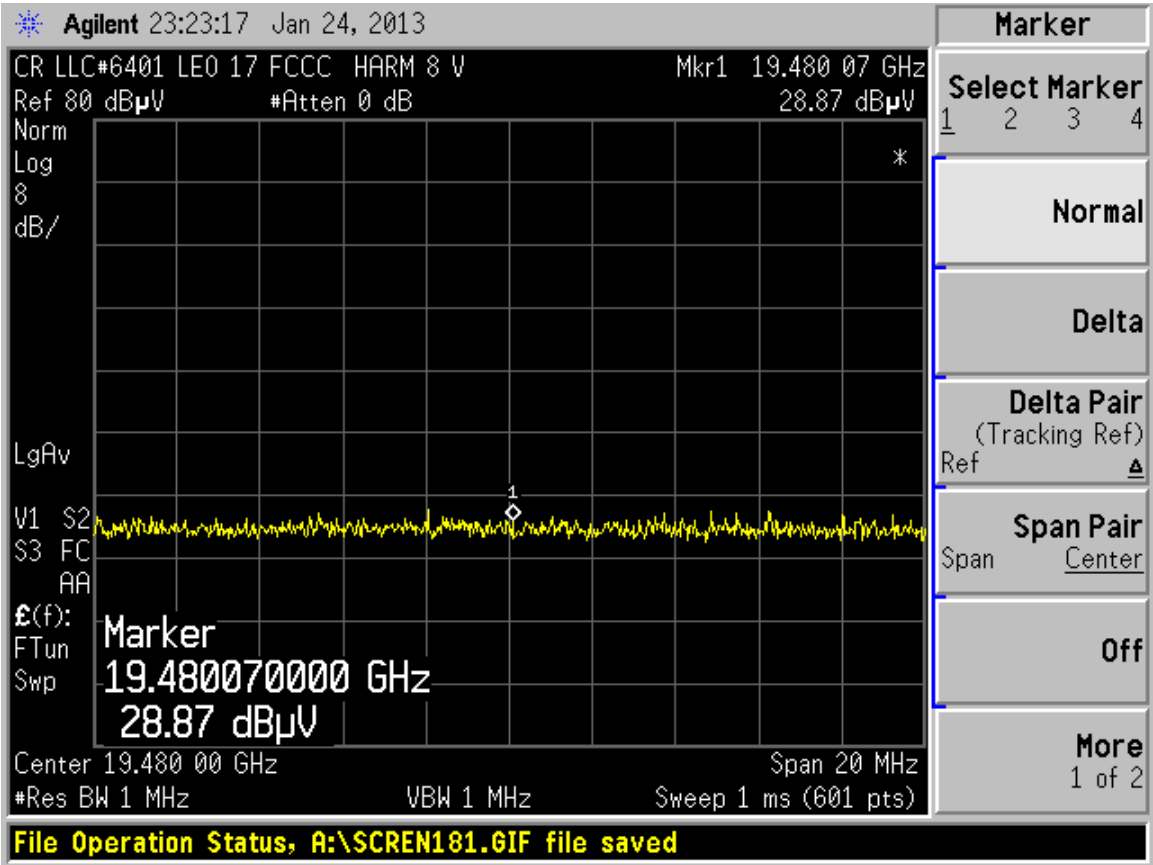
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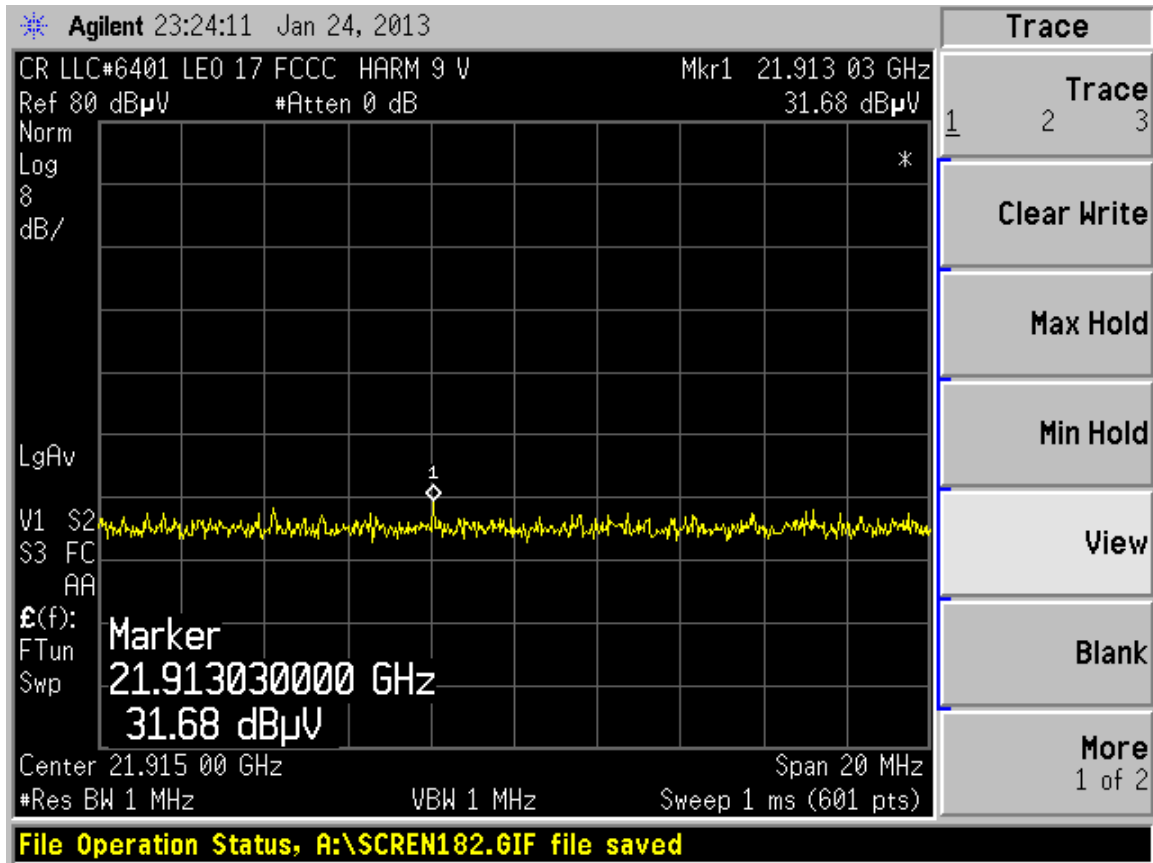
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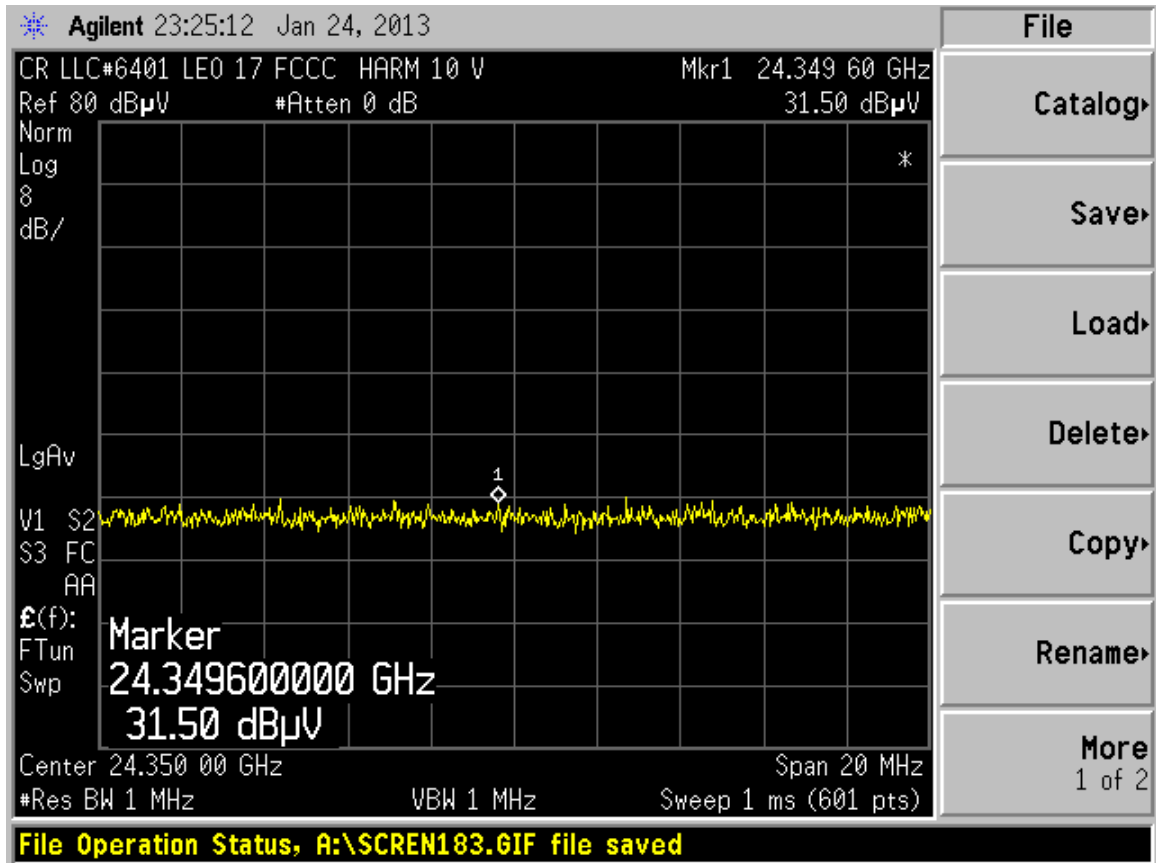
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Harmonics Test Datasheets – Channel 25 2475 MHz

21 pages to follow.

Limits for transmitters
Tested January 24, 2013 -
January 29, 2013

FCC Harmonics Test 2475 MHz										
Measured	Res.	DUT	Measured	Cable	Amplifier	Measurement	FCC	Corrected	Margin	
Field Strength	Bandwidth	Frequency	Frequency	Factor	Gain	Distance	Limit	Field Strength		Polarity
(dBuV)	(Khz)	(Mhz)	(Mhz)	(dBuV)	(dBuV)	(Meters)	(dBuV)	(dBuV/M)	(dBuV/M)	
57.31	1000	2475	2475	2.1	0	3	146.99	59.41	-87.58	Horizontal
27.45	1000	2475	4950	2.2	0	1	54	29.65	-24.35	Horizontal
30.66	1000	2475	7425	2.3	0	1	54	32.96	-21.04	Horizontal
27.49	1000	2475	9900	2.4	0	1	54	29.89	-24.11	Horizontal
28.79	1000	2475	12375	2.5	0	1	54	31.29	-22.71	Horizontal
29.45	1000	2475	14850	2.6	0	1	54	32.05	-21.95	Horizontal
28.95	1000	2475	17325	2.7	0	1	54	31.65	-22.35	Horizontal
29.60	1000	2475	19800	2.8	0	1	54	32.40	-21.60	Horizontal
29.46	1000	2475	22275	2.9	0	1	54	32.36	-21.64	Horizontal
32.44	1000	2475	24750	3.0	0	1	54	35.44	-18.56	Horizontal
65.43	1000	2475	2475	2.1	0	3	146.99	67.53	-79.46	Vertical
27.64	1000	2475	4950	2.2	0	1	54	29.84	-24.16	Vertical
30.15	1000	2475	7425	2.3	0	1	54	32.45	-21.55	Vertical
28.33	1000	2475	9900	2.4	0	1	54	30.73	-23.27	Vertical
29.22	1000	2475	12375	2.5	0	1	54	31.72	-22.28	Vertical
29.27	1000	2475	14850	2.6	0	1	54	31.87	-22.13	Vertical
28.39	1000	2475	17325	2.7	0	1	54	31.09	-22.91	Vertical
29.75	1000	2475	19800	2.8	0	1	54	32.55	-21.45	Vertical
30.64	1000	2475	22275	2.9	0	1	54	33.54	-20.46	Vertical
31.97	1000	2435	24750	3.0	0	1	54	34.97	-19.03	Vertical
*Antenna factors are pre-calculated into Measured Field Strength (dBuV)										
Unit Under Test: Leo Outlet Channel 25										

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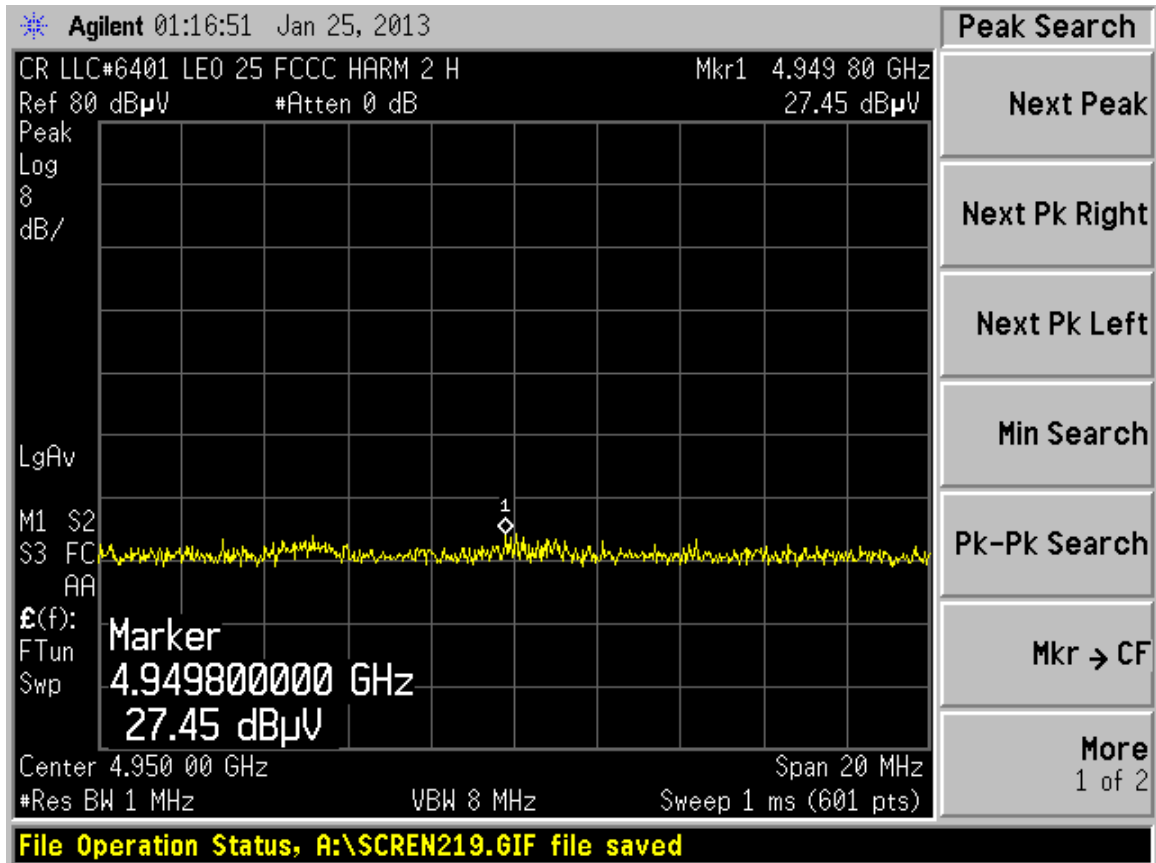
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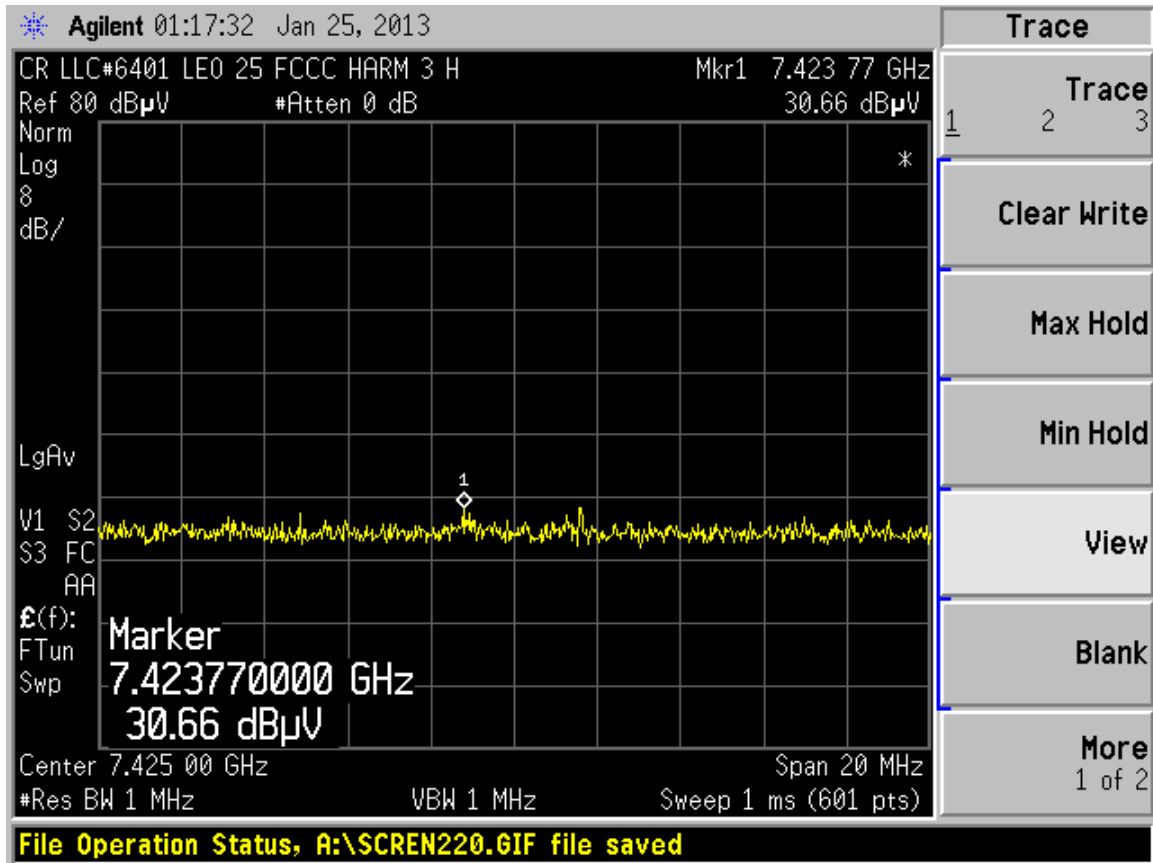
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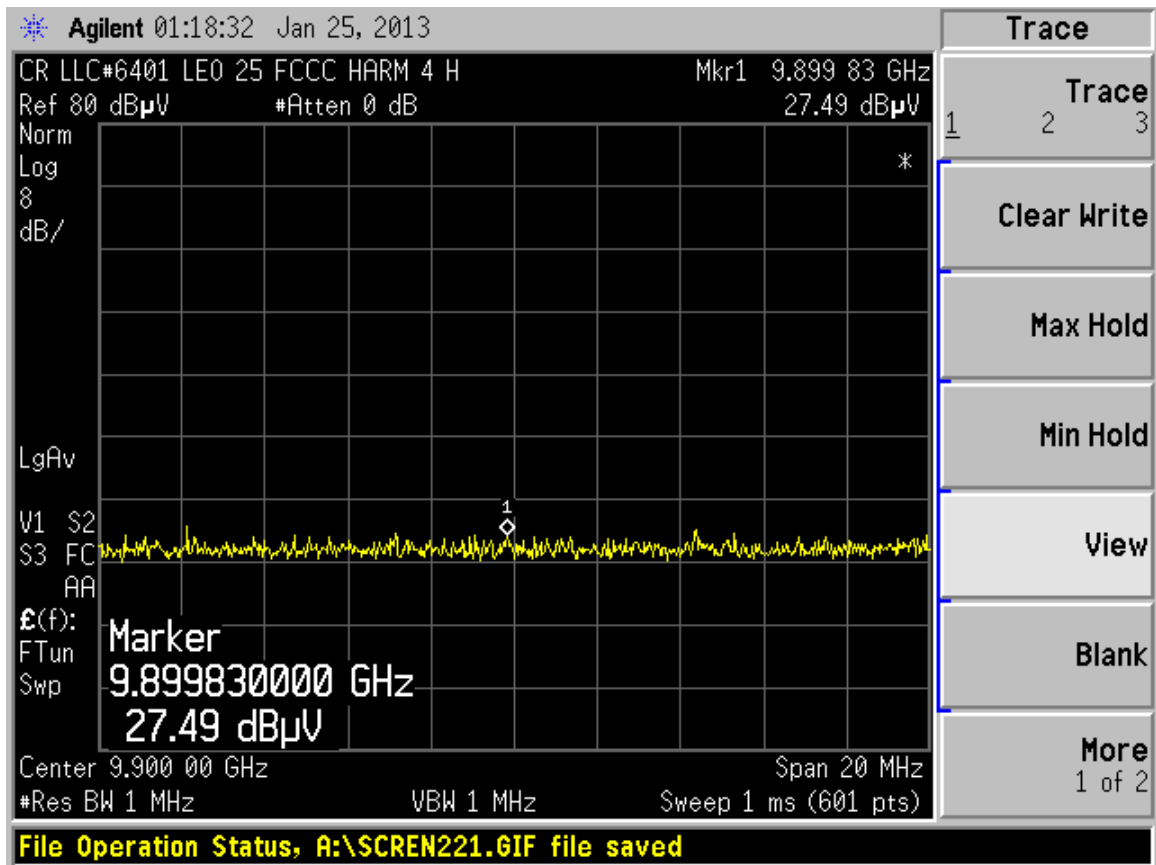
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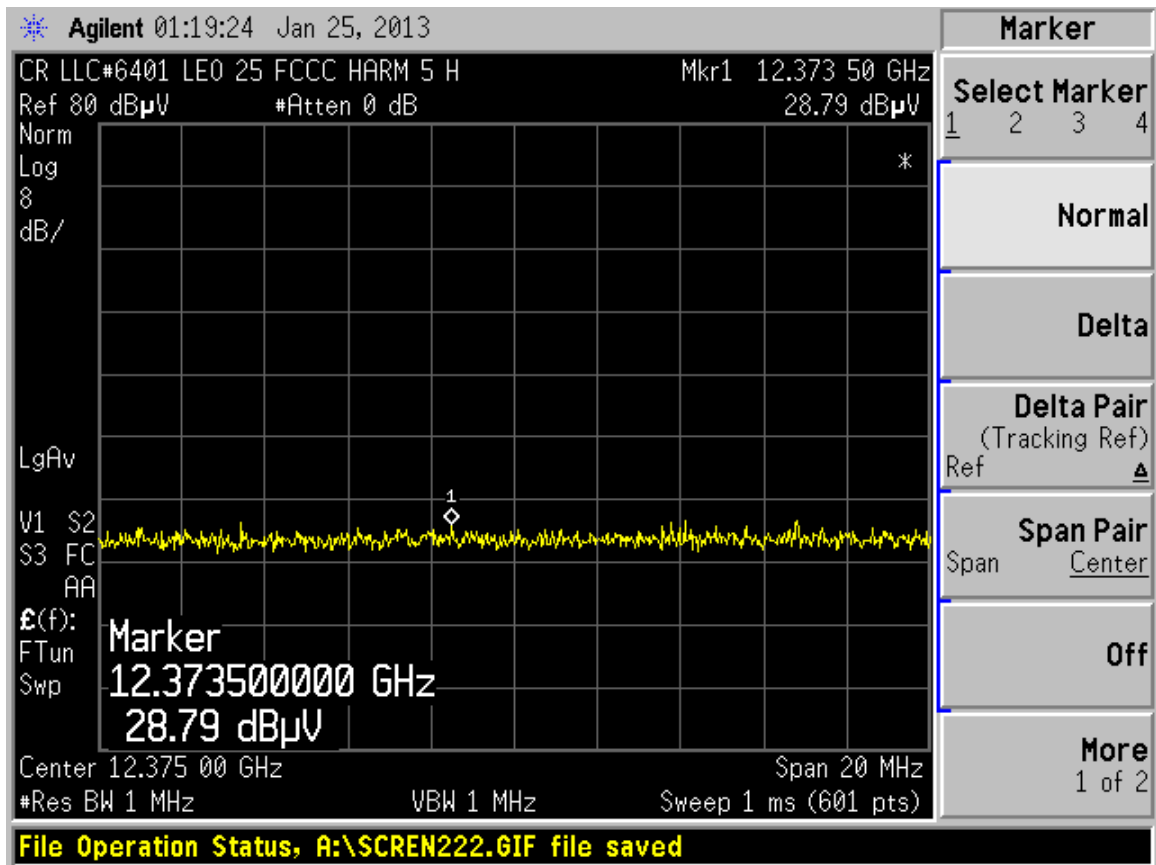
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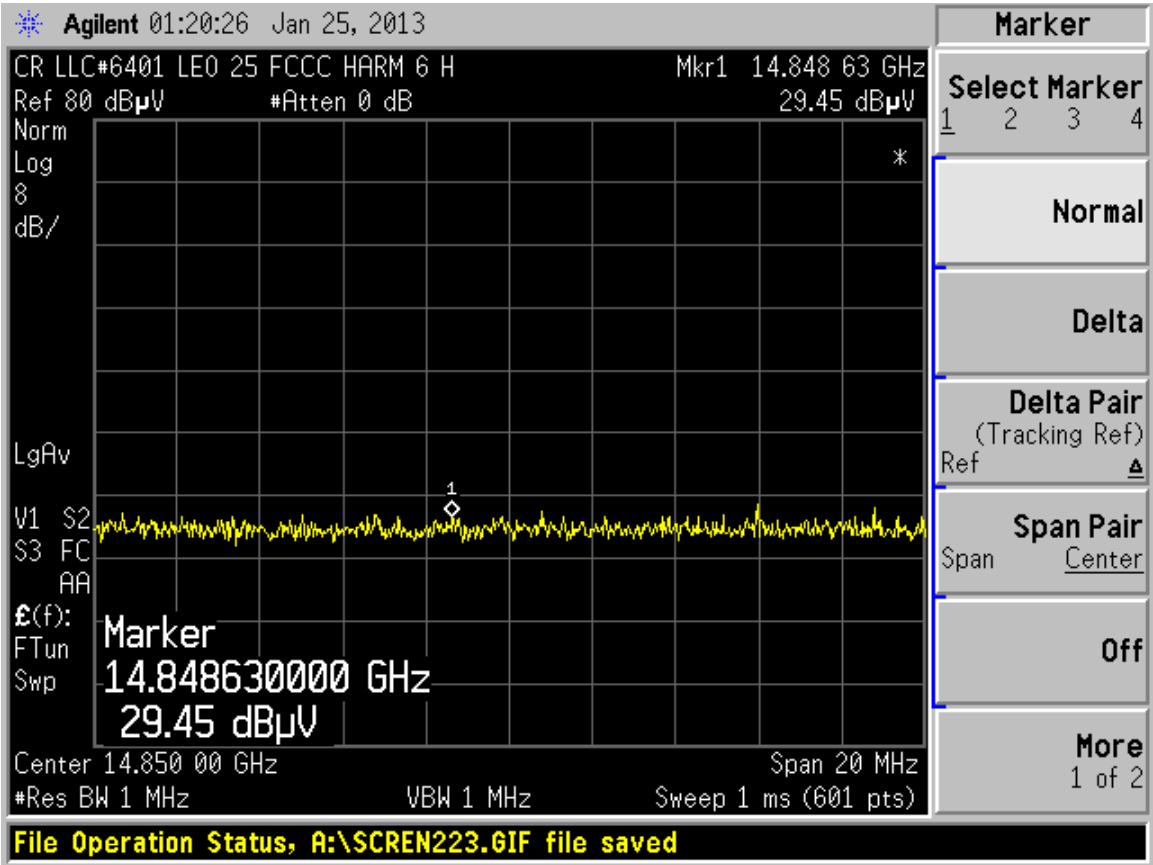
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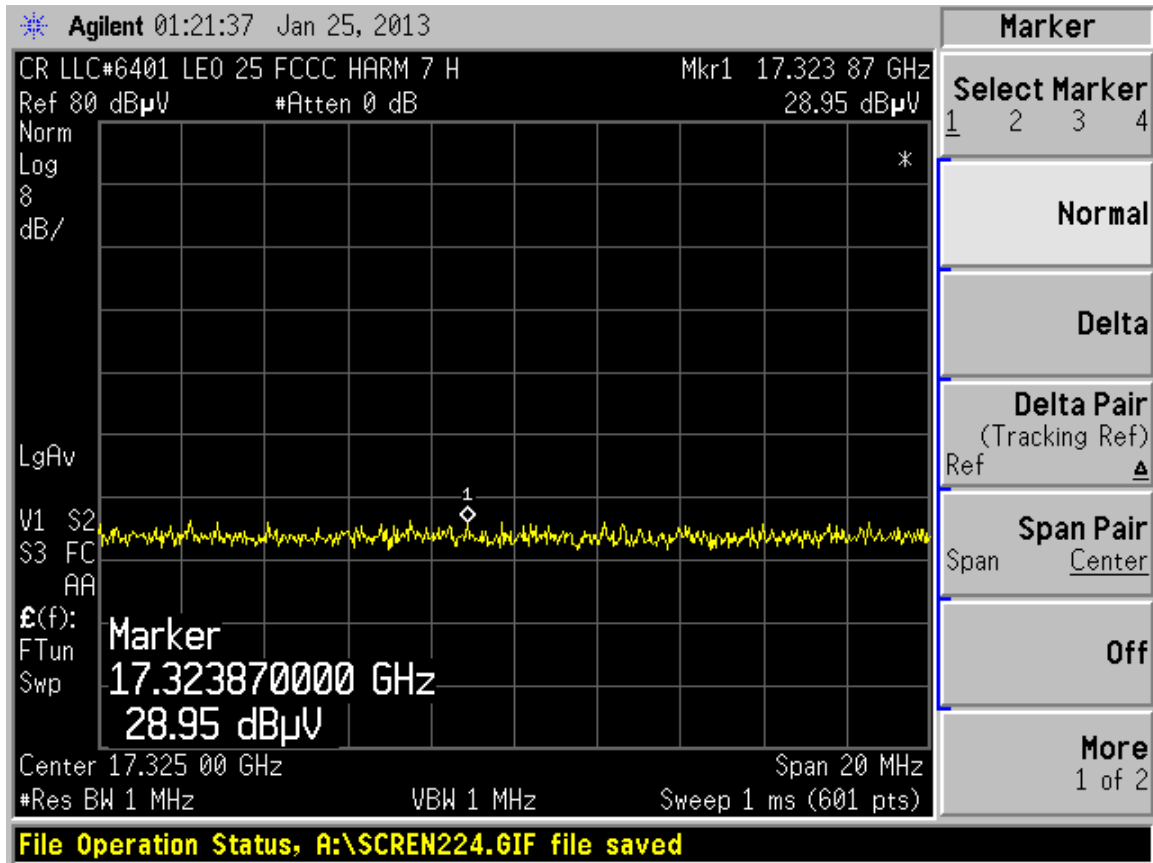
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Cortland Research LLC Leo Outlet	Project Number: 6401



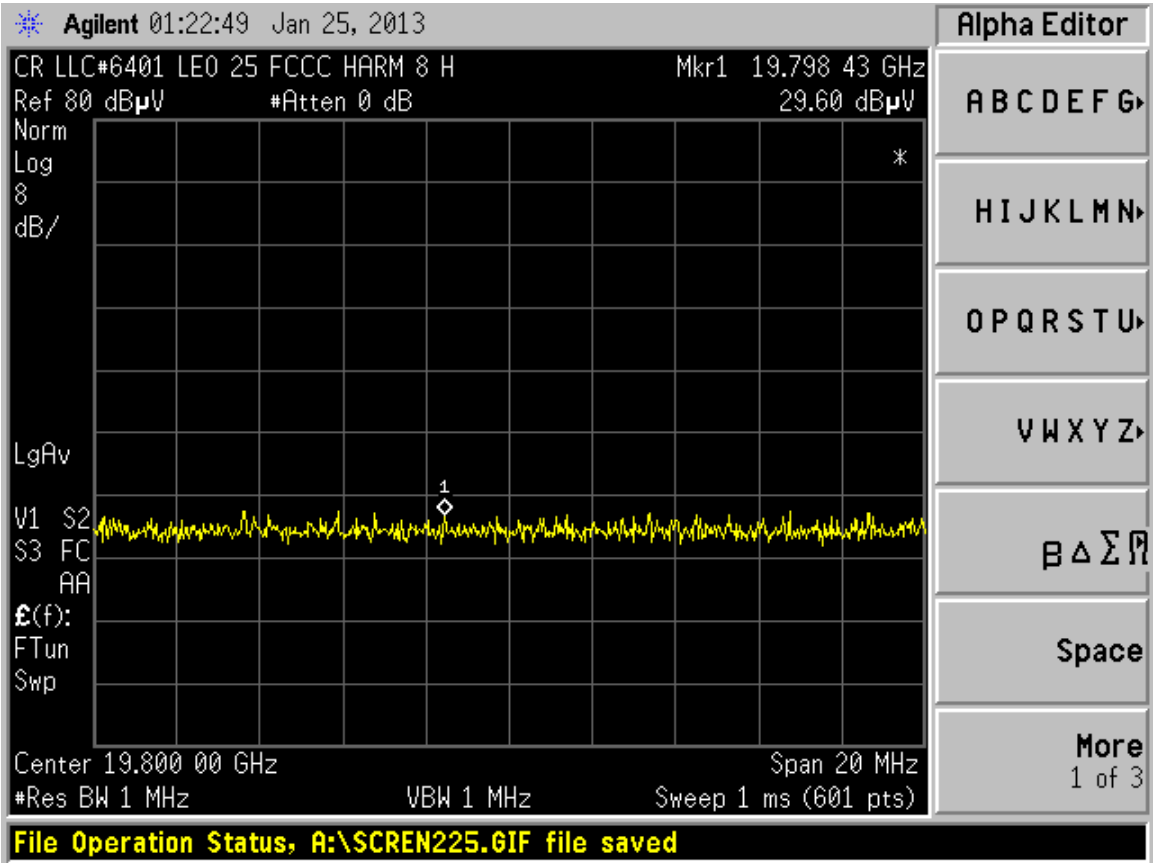
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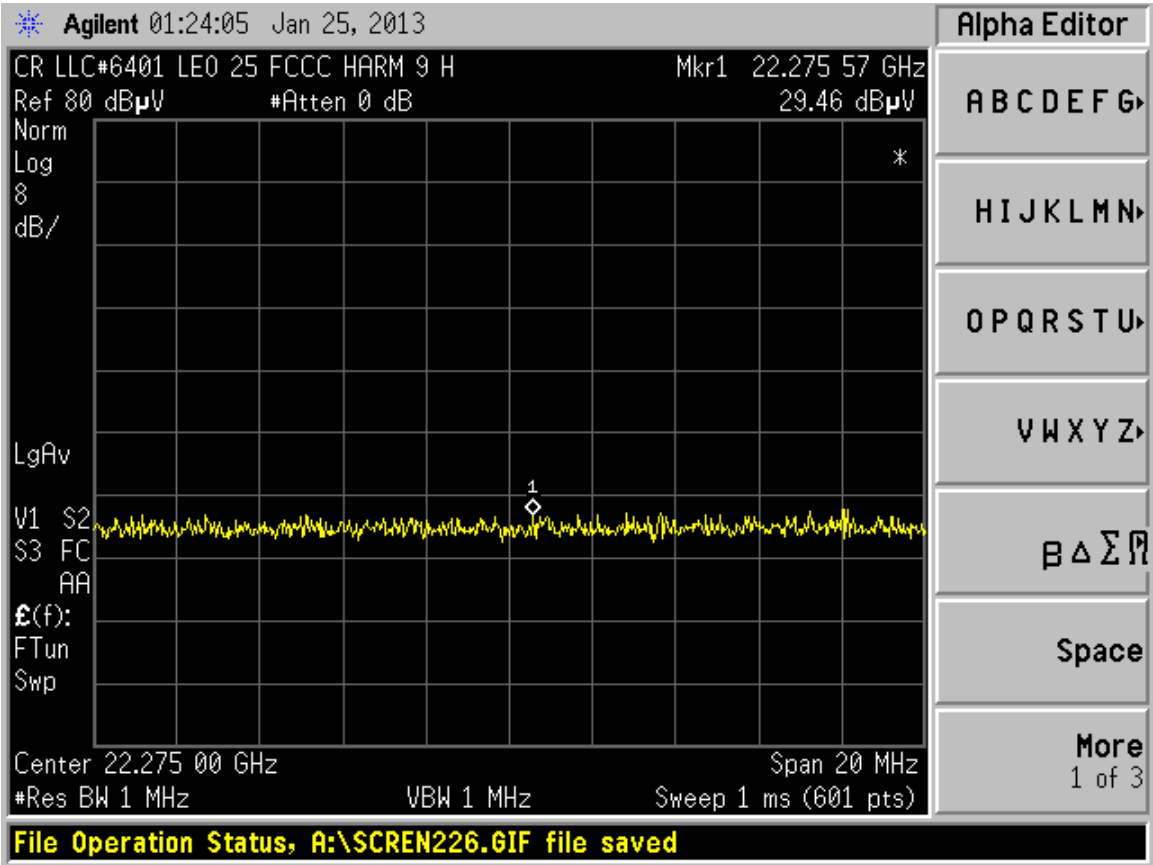
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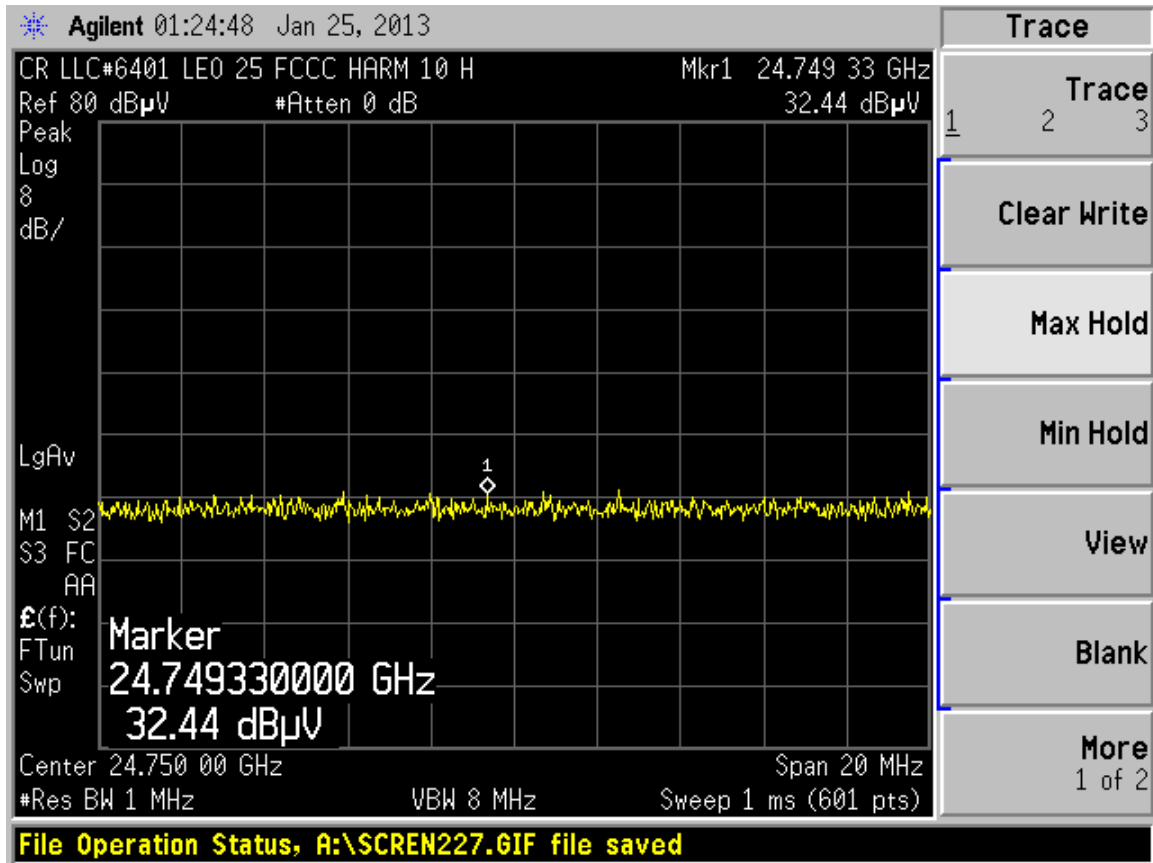
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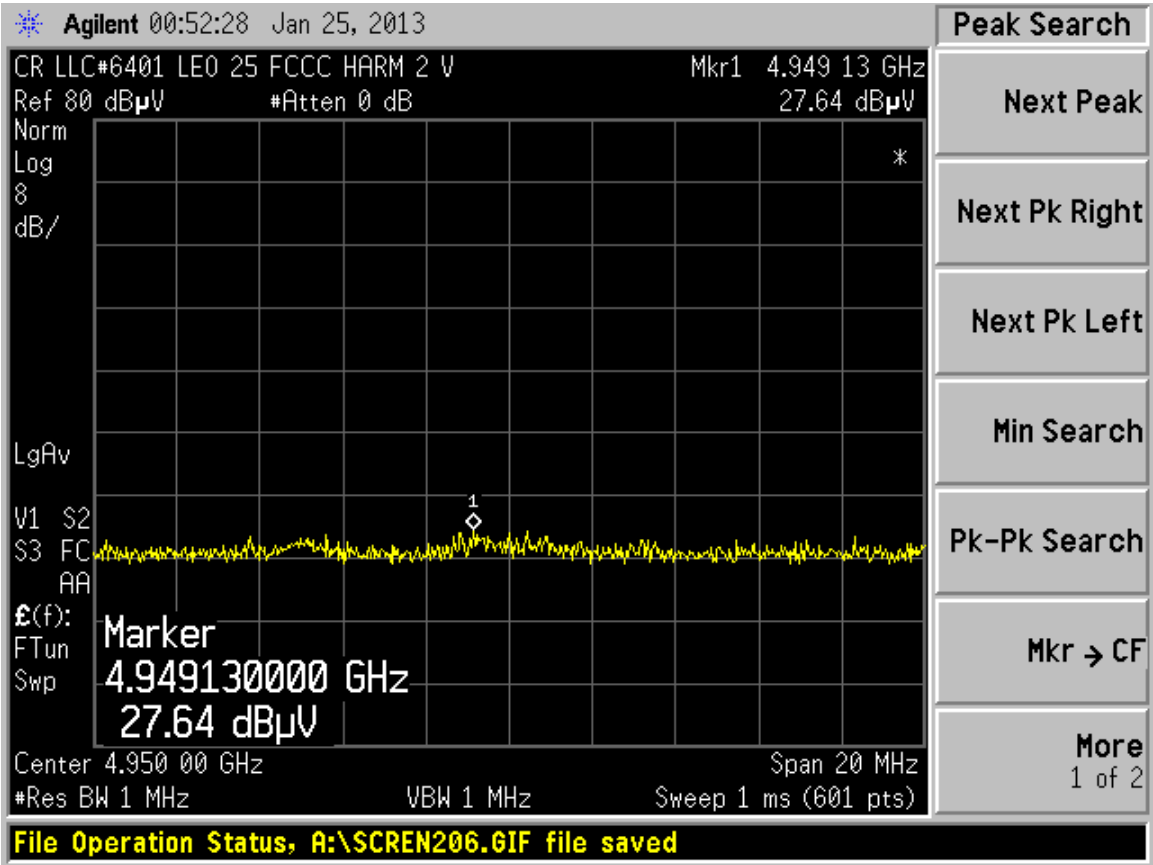
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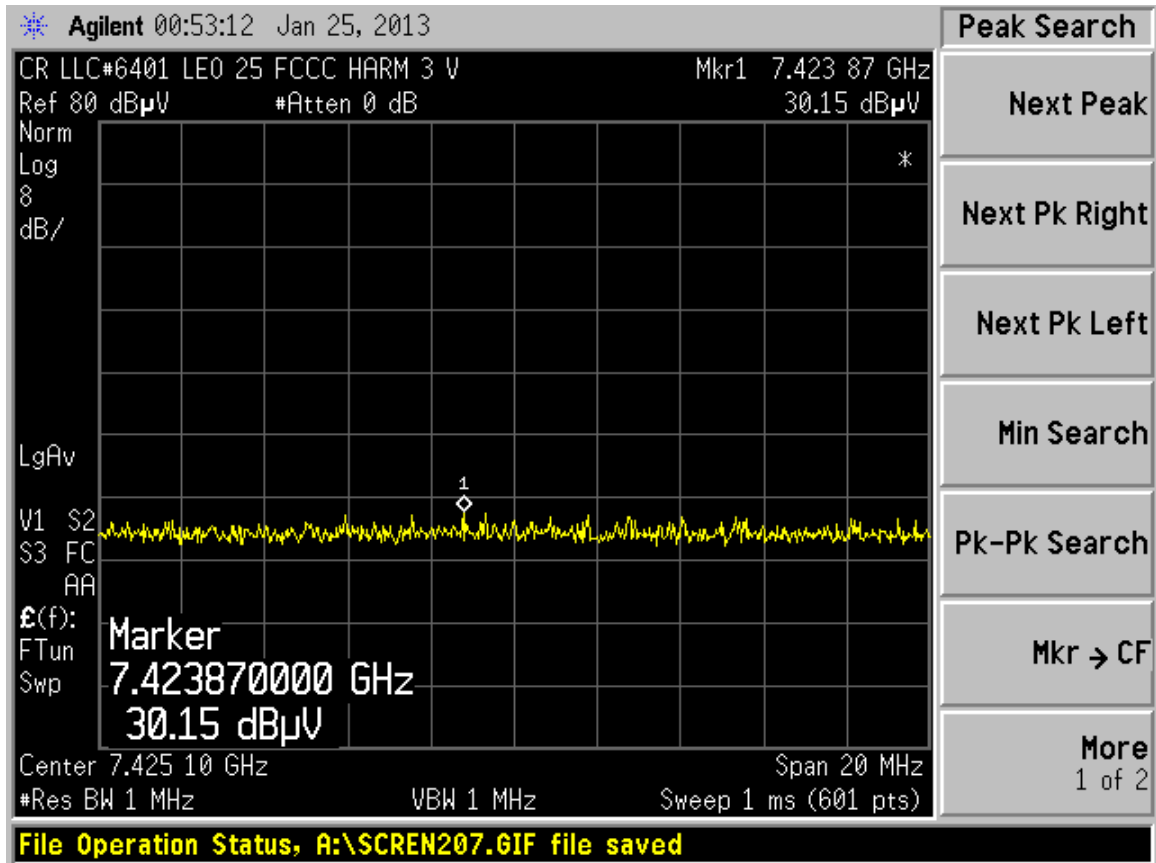
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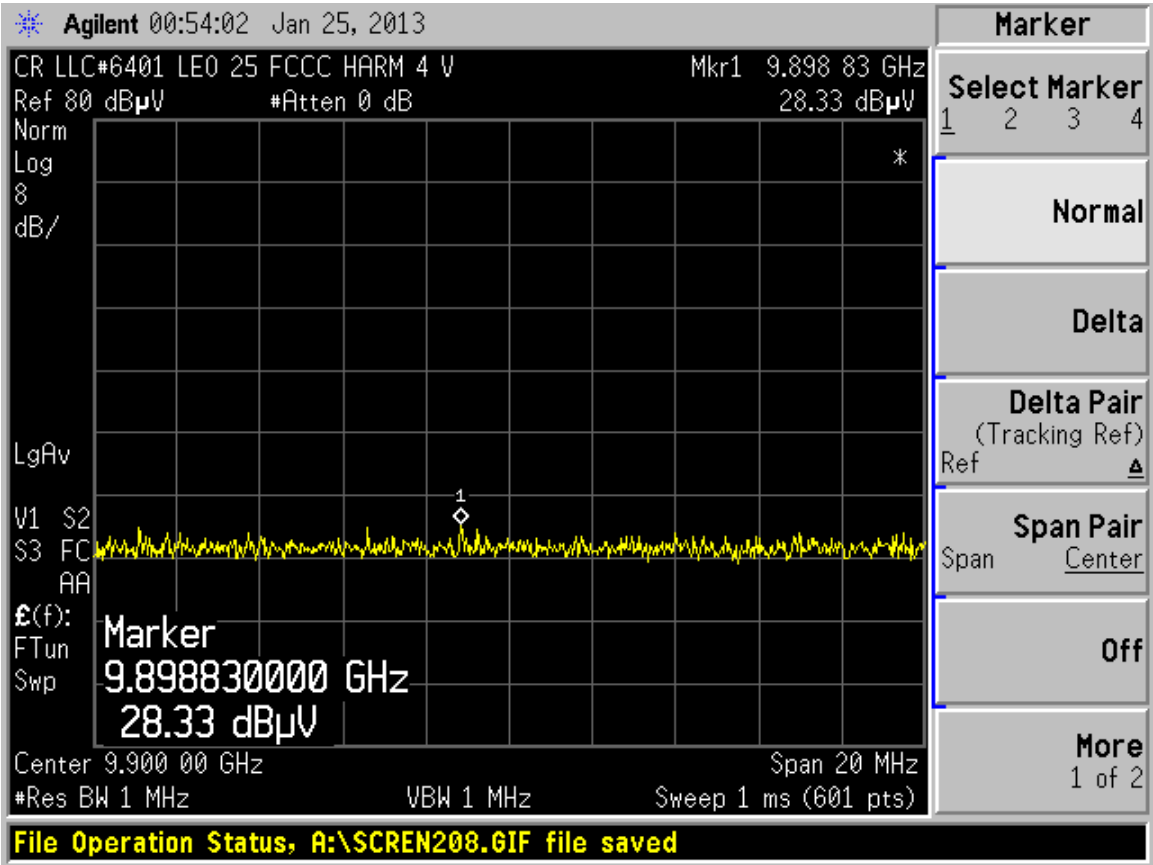
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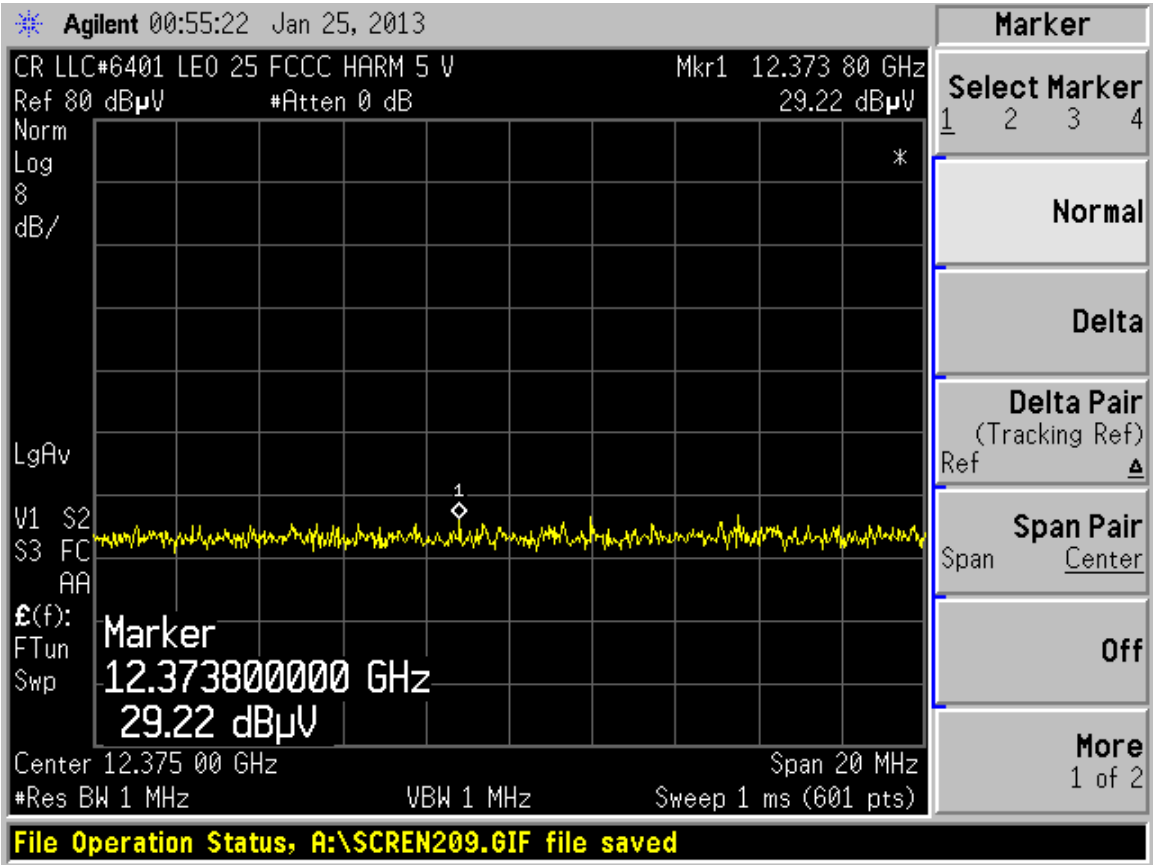
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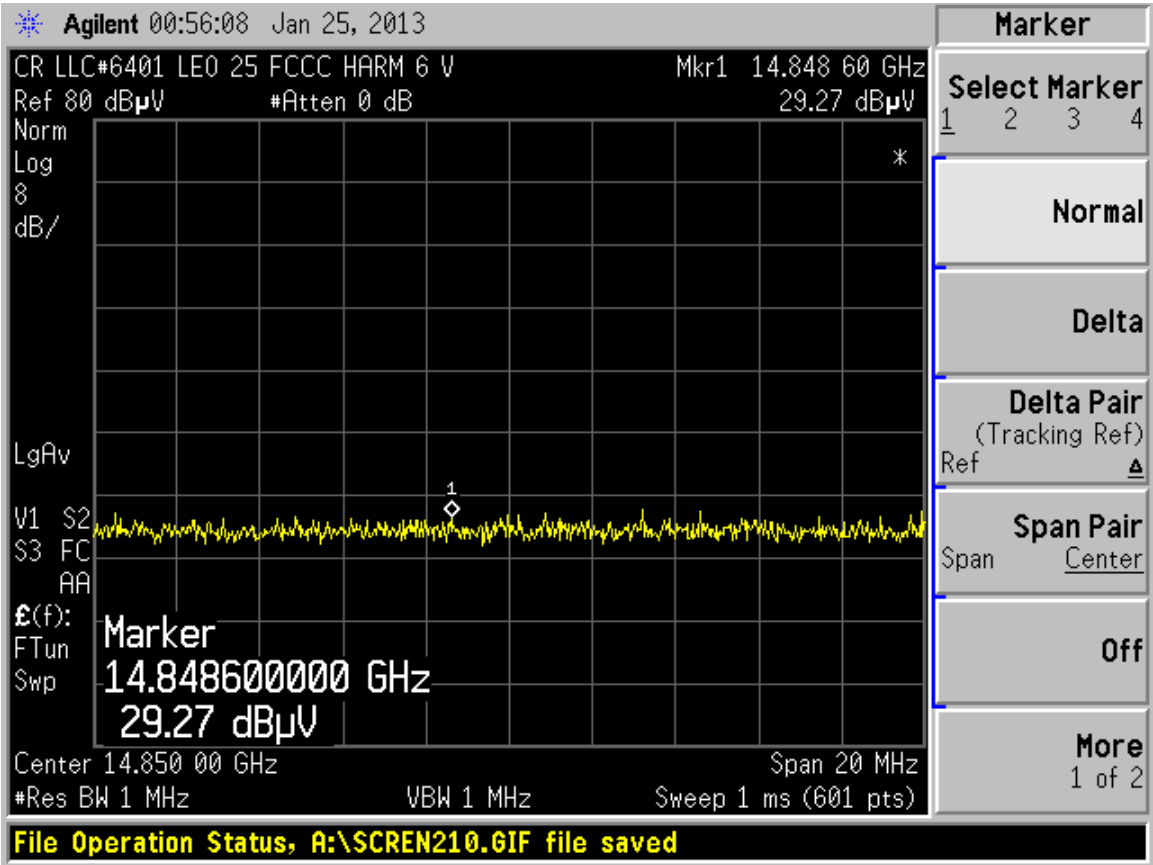
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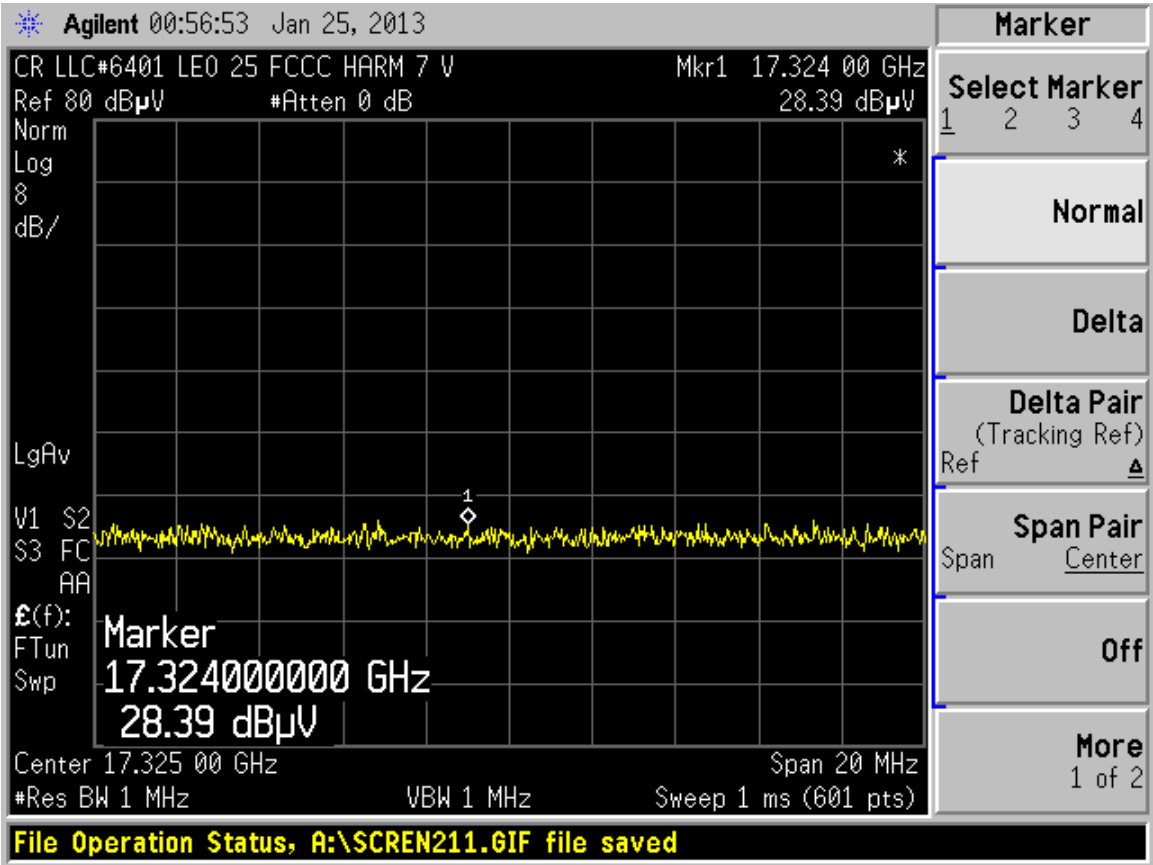
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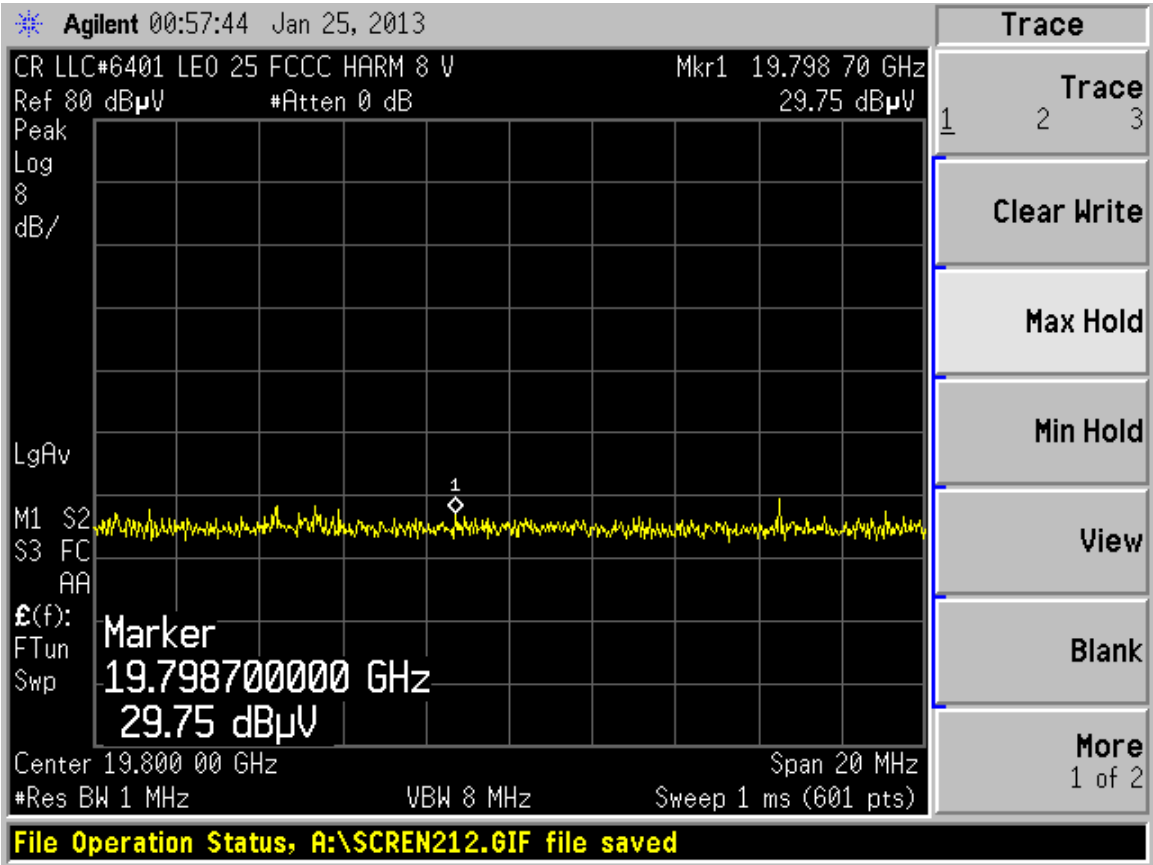
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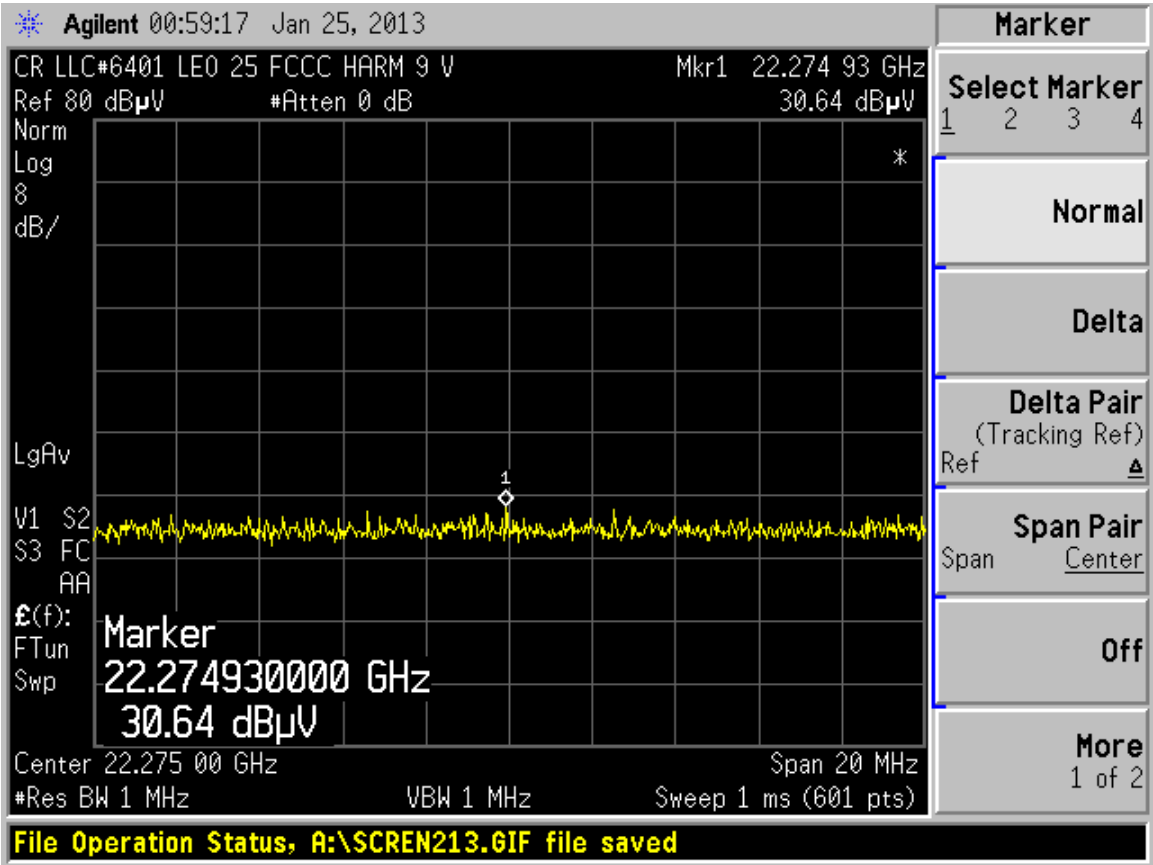
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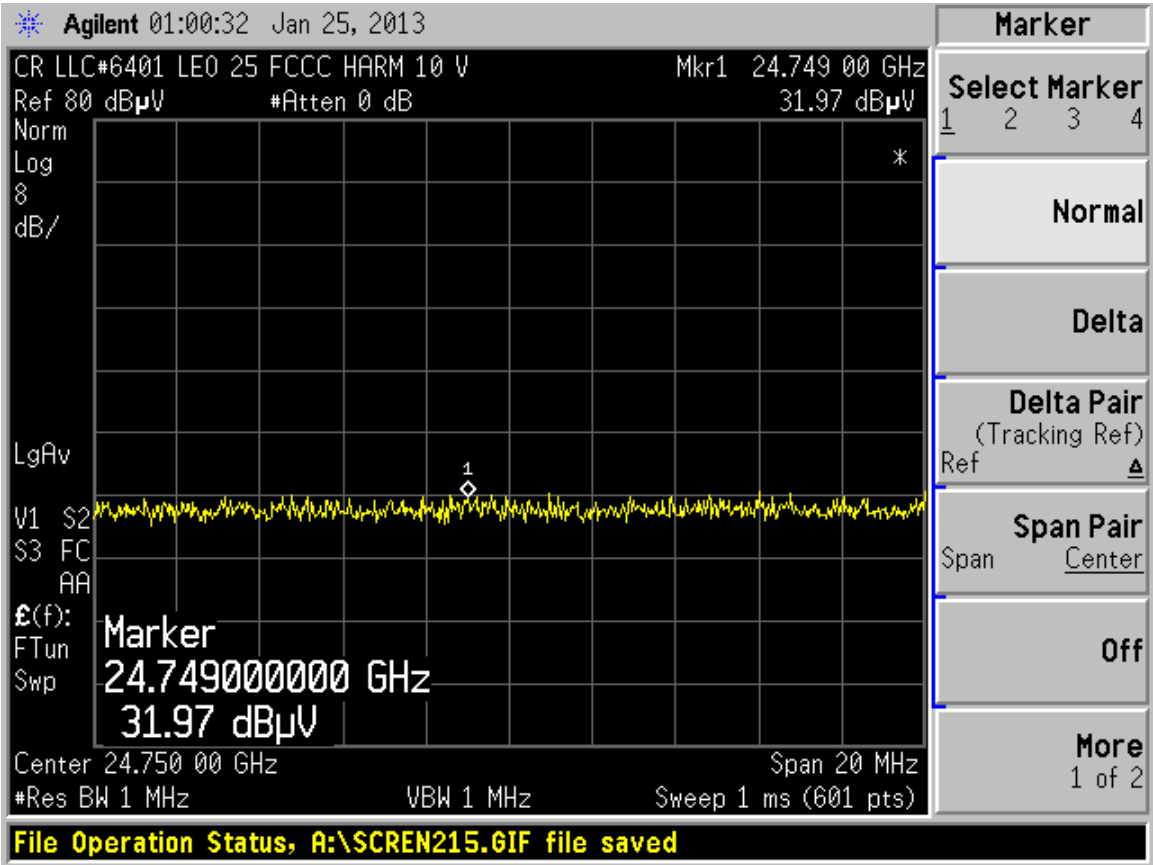
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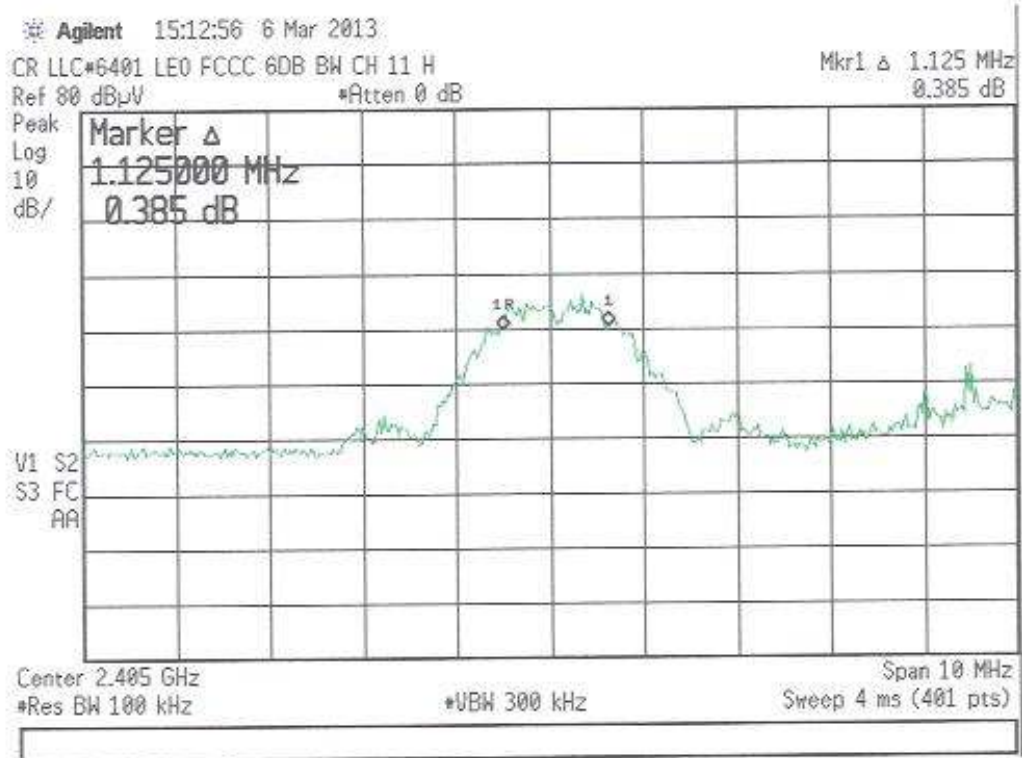
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Cortland Research LLC
Leo Outlet

Project Number:
6401

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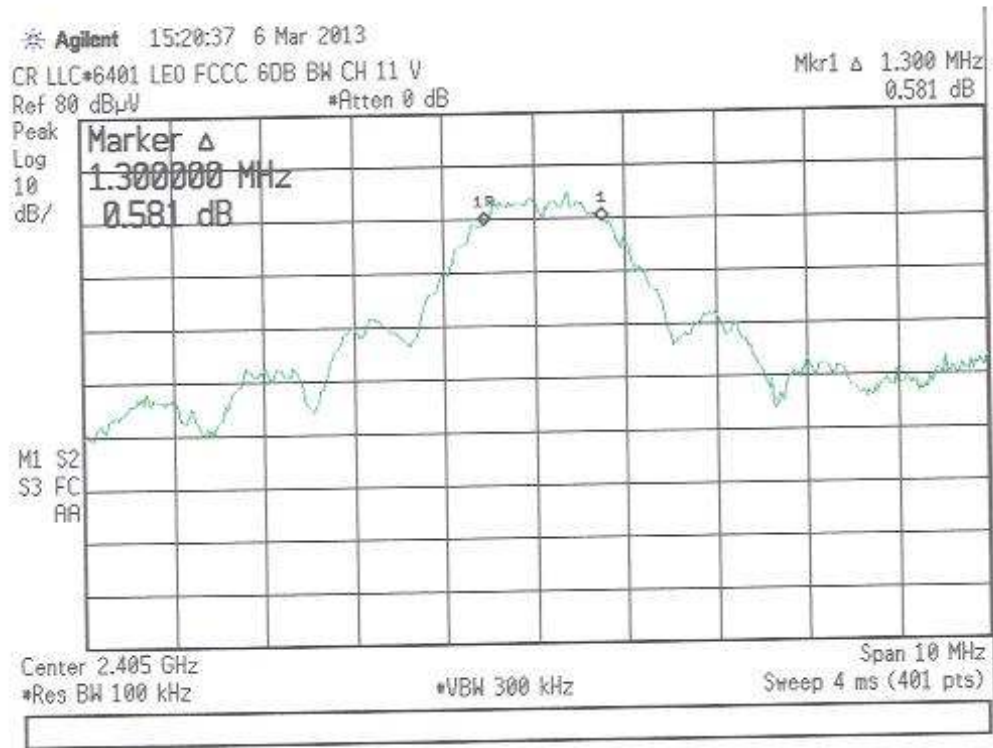
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Cortland Research LLC
Leo Outlet

Project Number:
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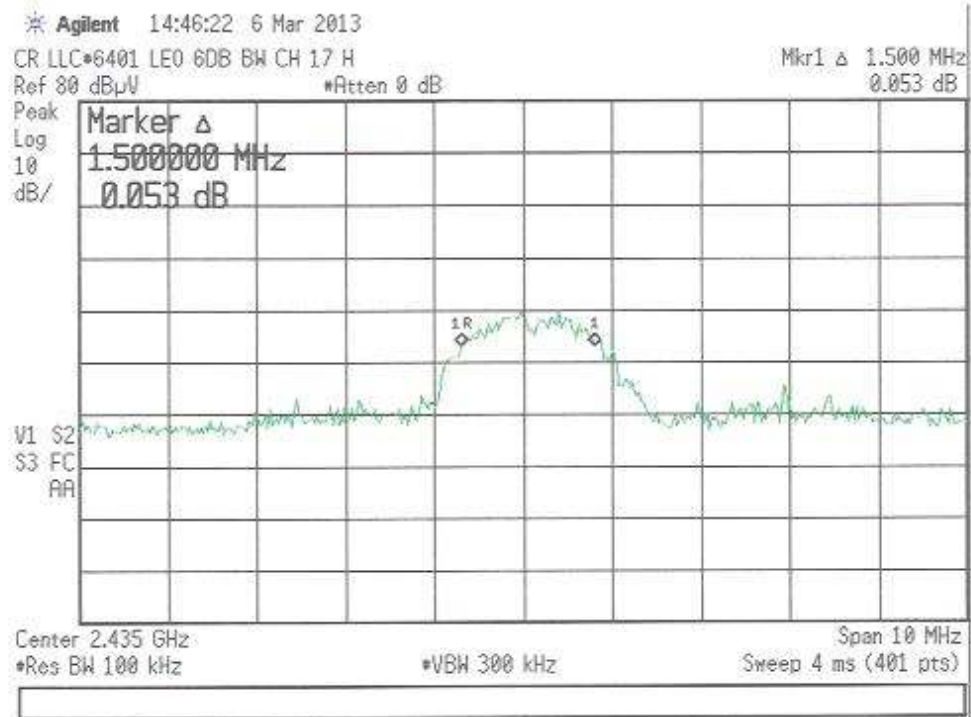
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Cortland Research LLC
Leo Outlet

Project Number:
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**Test Datasheet-Bandwidth Test Minimum 6dB Bandwidth more than 500 KHz- Channel 17
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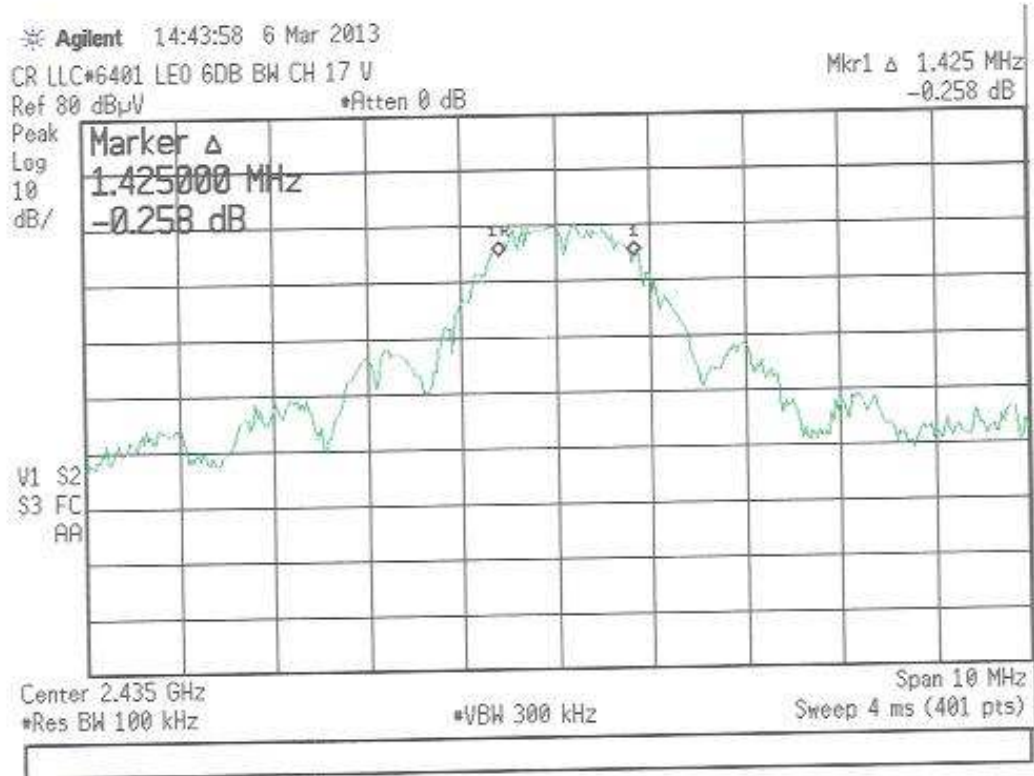
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Cortland Research LLC
Leo Outlet

Project Number:
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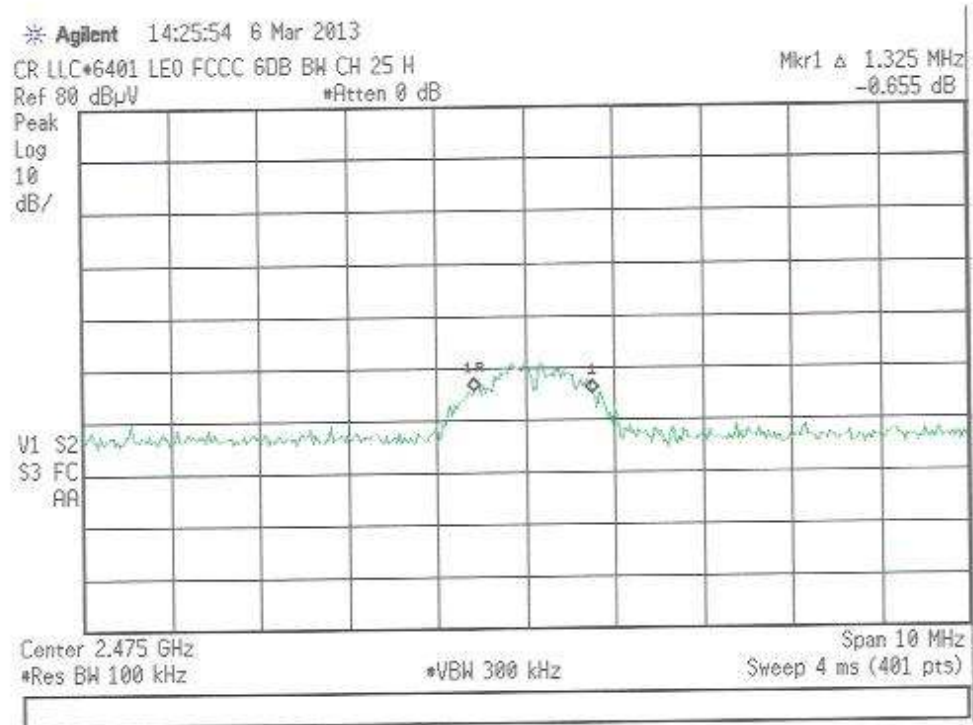
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Leo Outlet

Project Number:
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**Test Datasheet-Bandwidth Test Minimum 6dB Bandwidth more than 500 KHz-Channel 25
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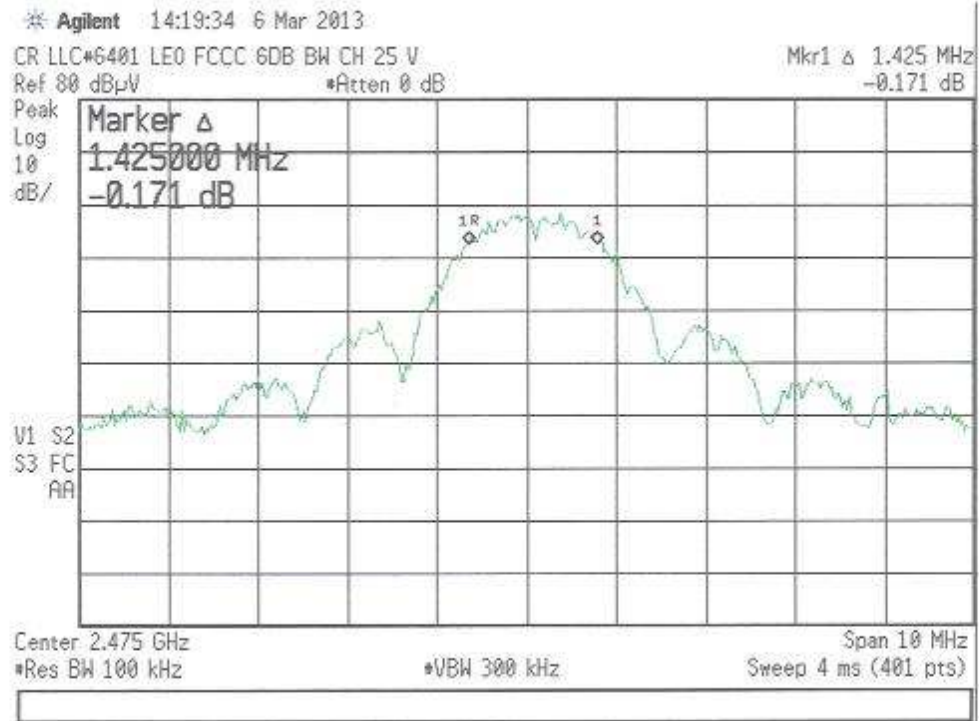
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Cortland Research LLC
Leo Outlet

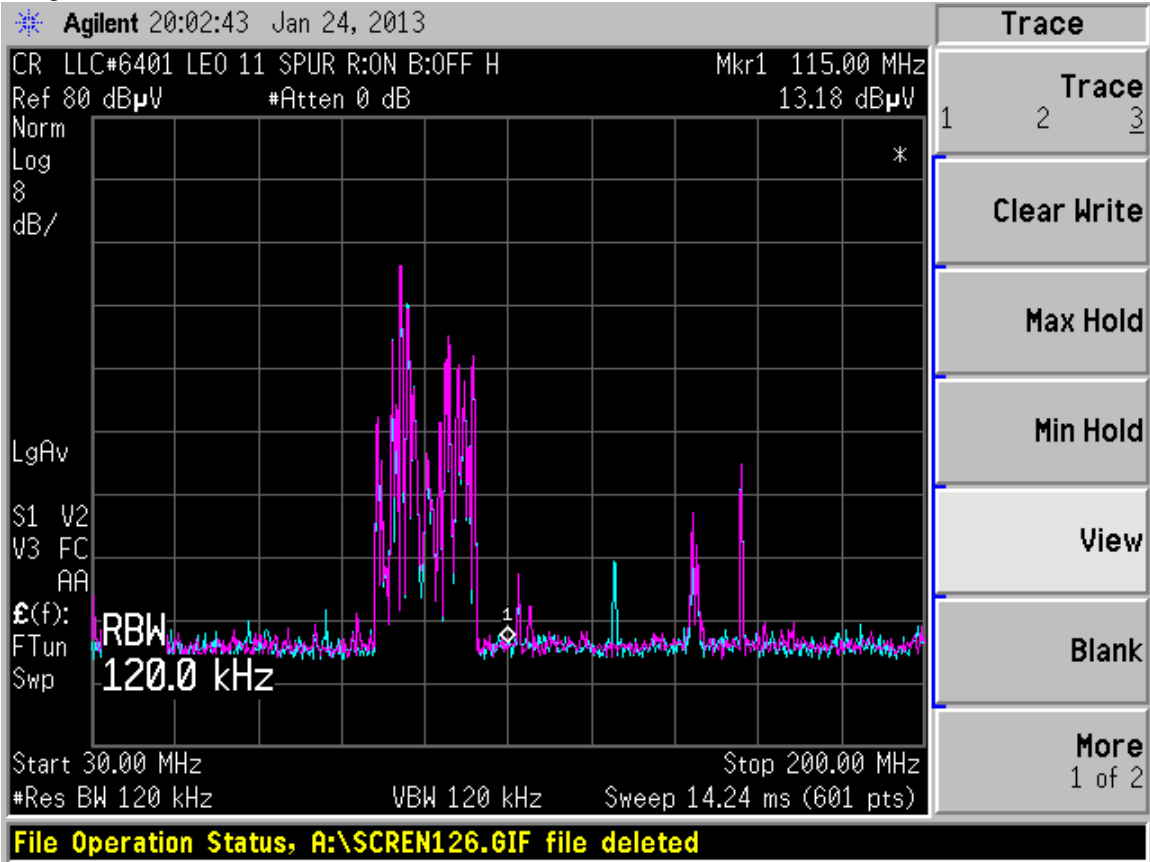
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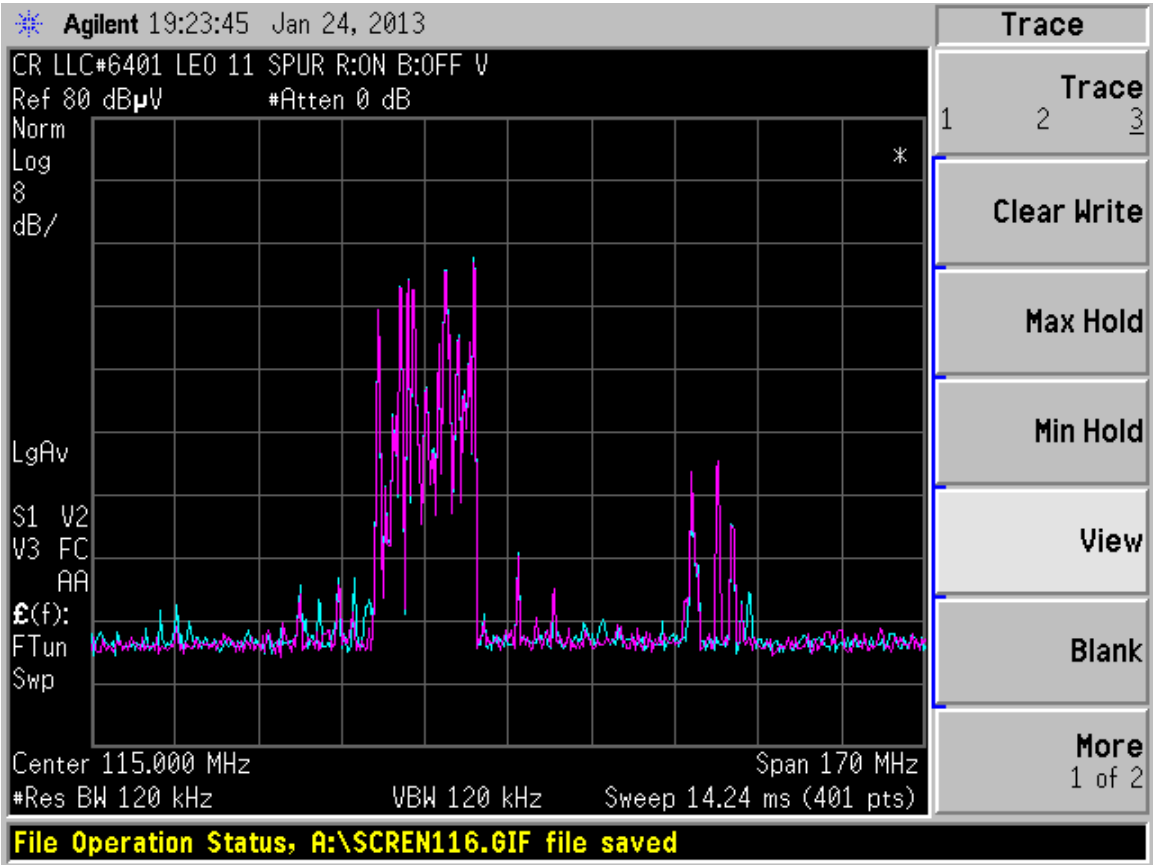
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Cortland Research LLC Leo Outlet	Project Number: 6401

Spurious Emissions Test Data- Channel 11 2405 MHz

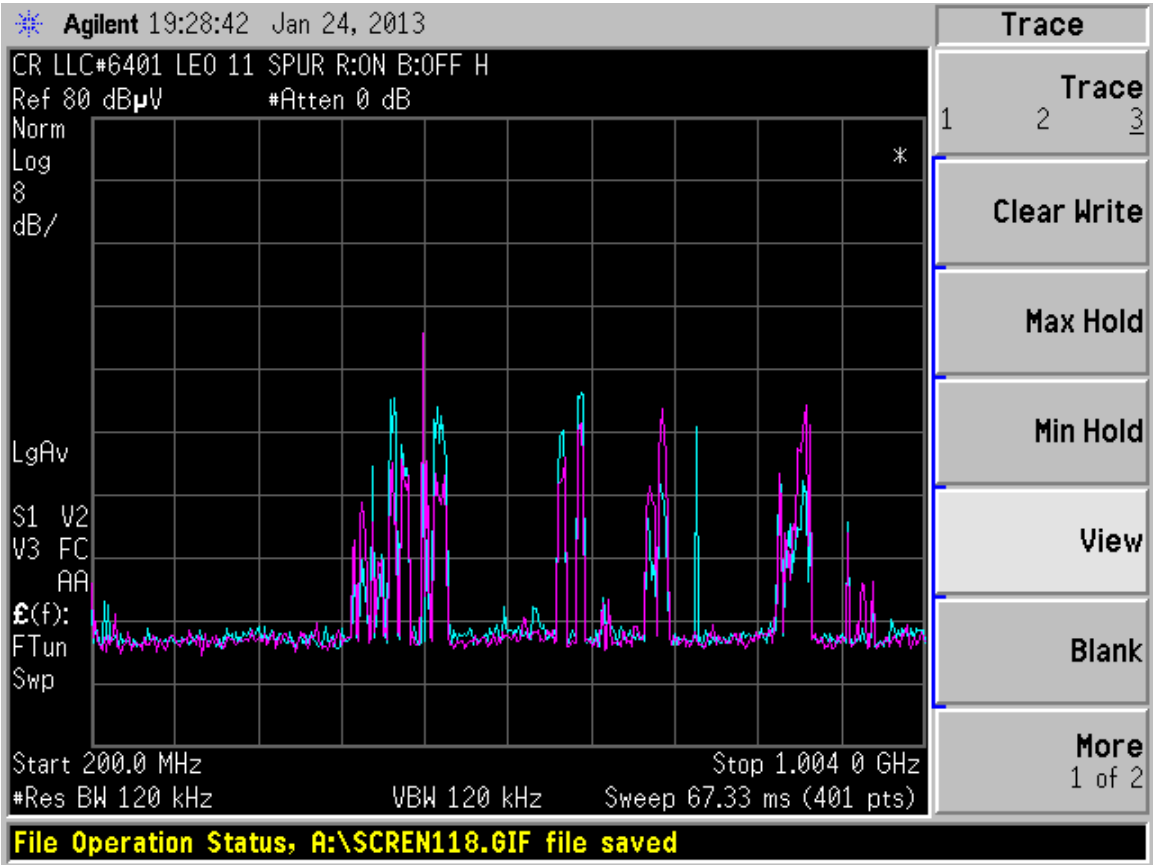
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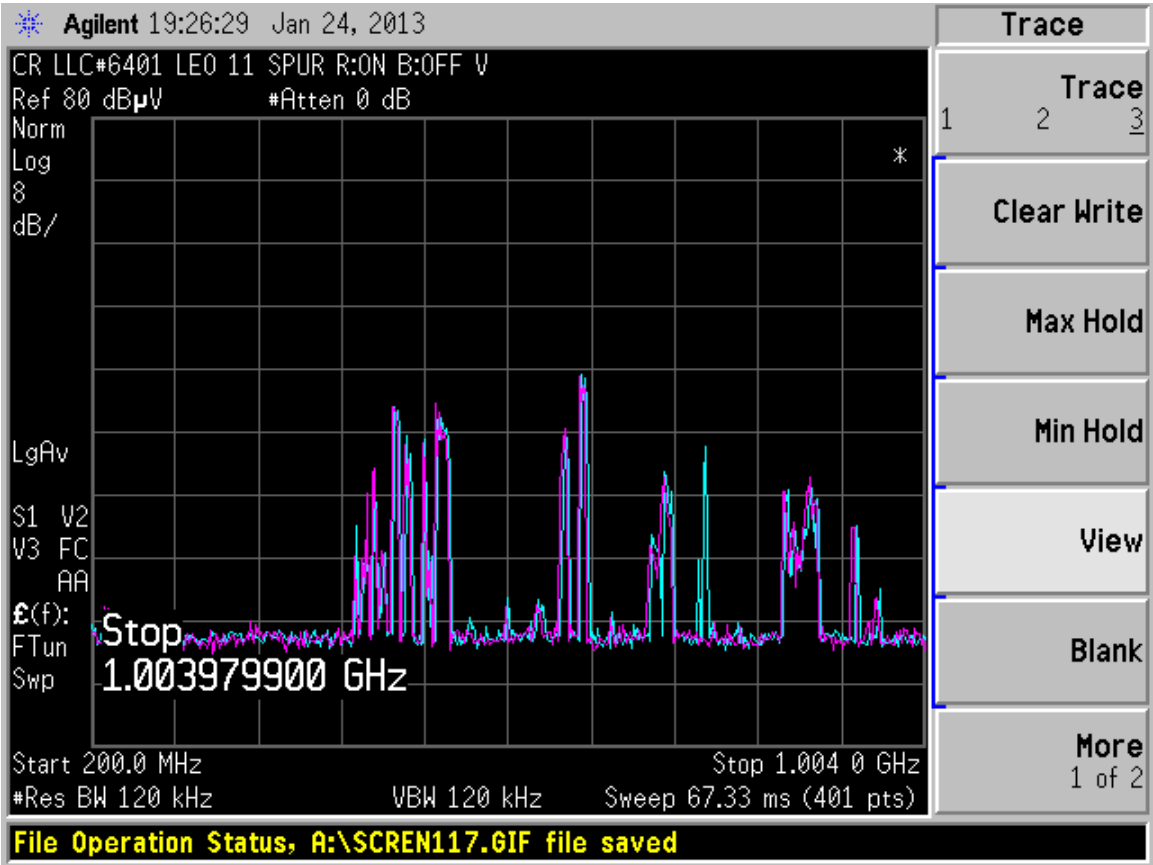
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Cortland Research LLC Leo Outlet	Project Number: 6401



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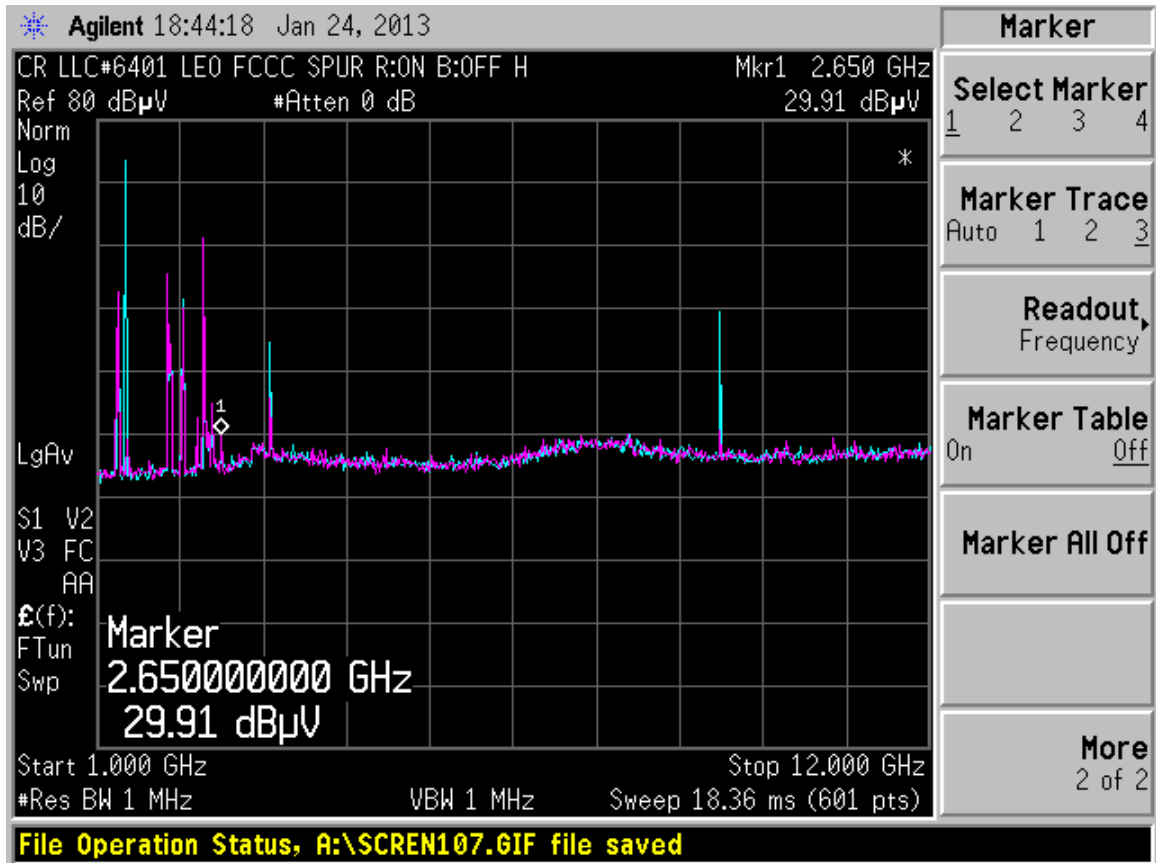
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Cortland Research LLC Leo Outlet	Project Number: 6401



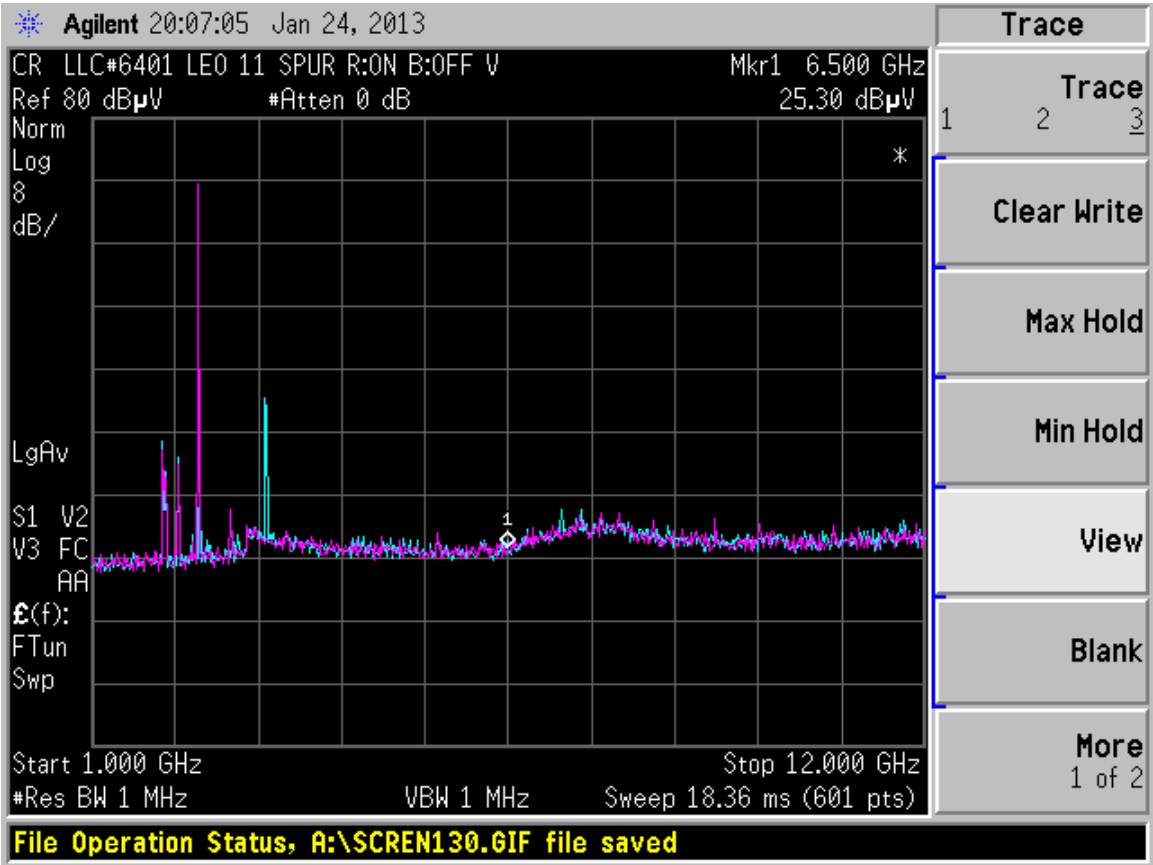
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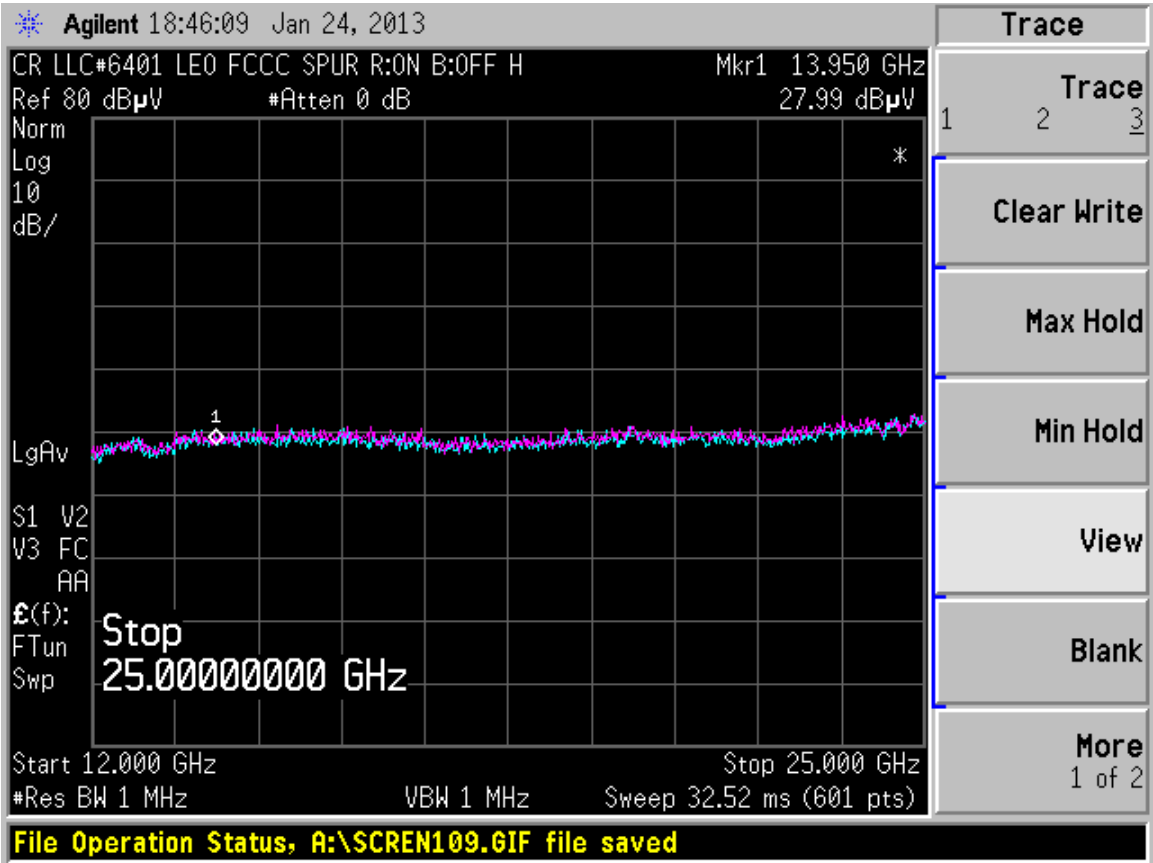
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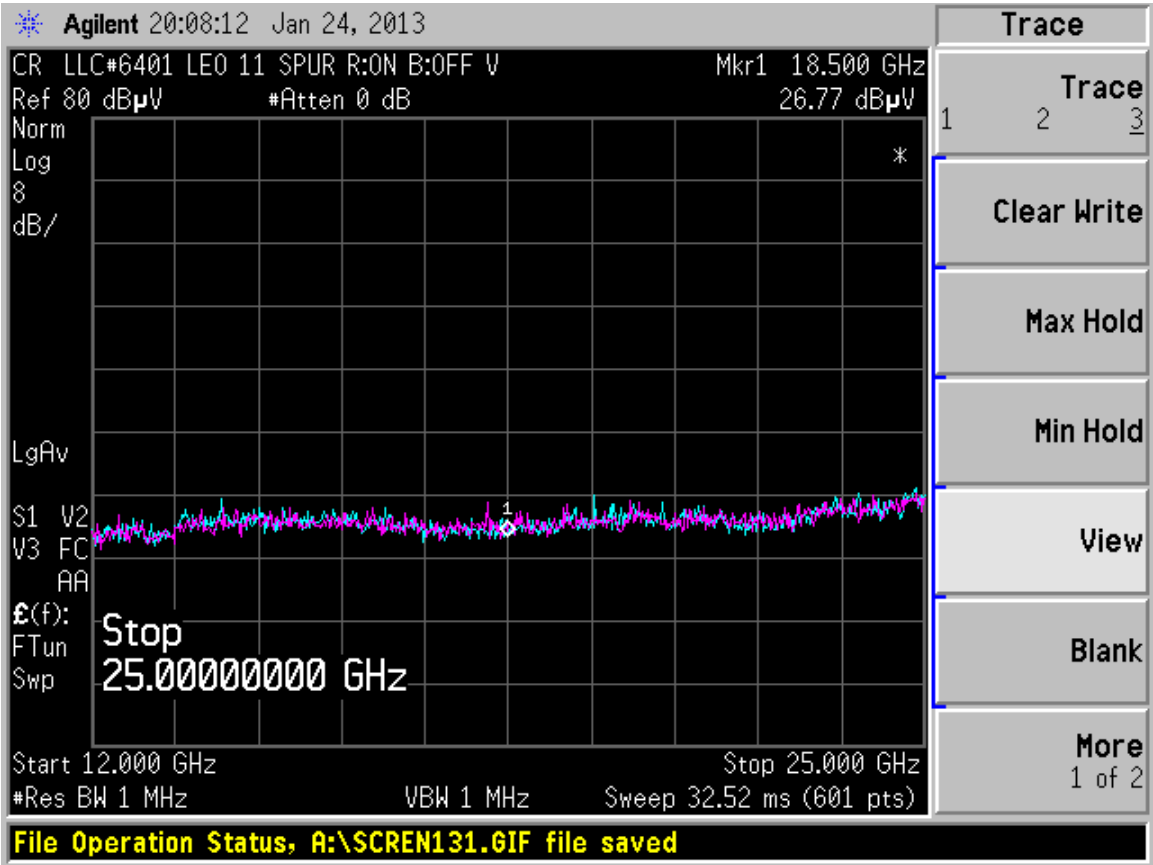
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Cortland Research LLC Leo Outlet	Project Number: 6401



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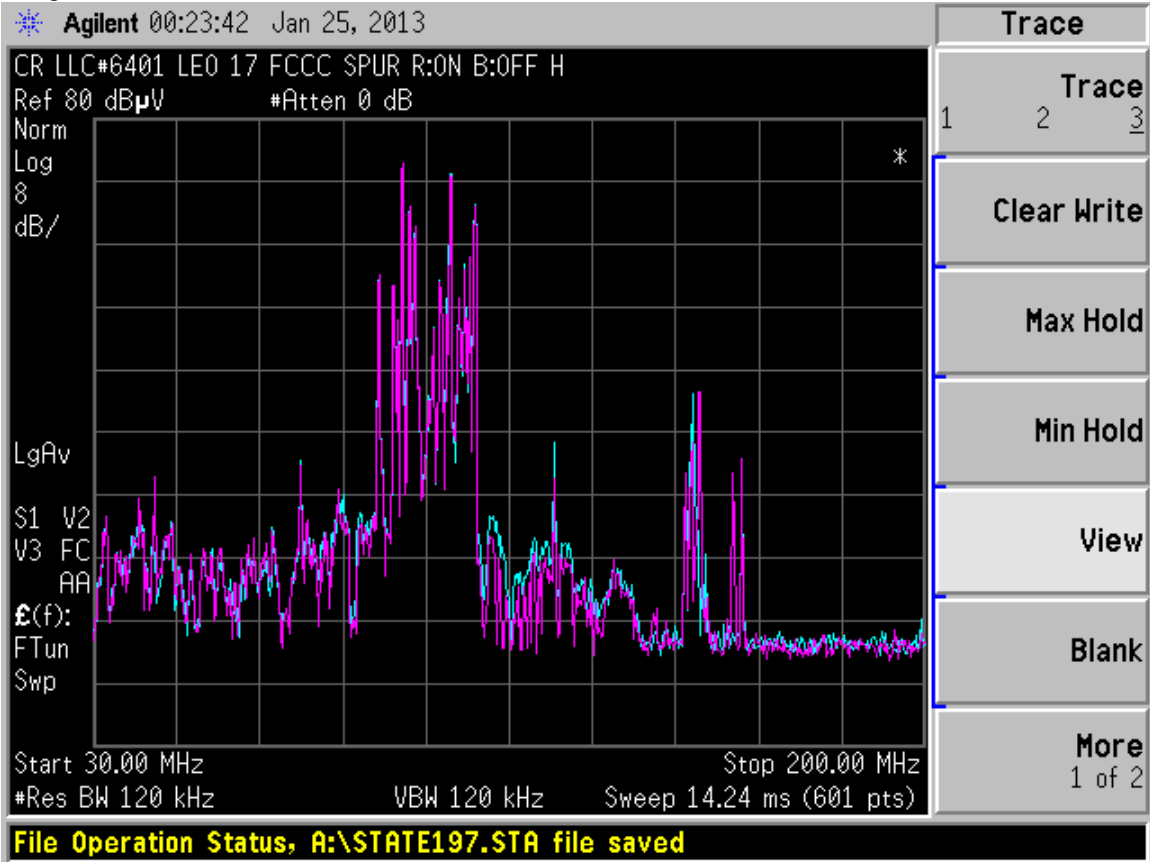
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<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
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Spurious Emissions Test Data- Channel 17 2435 MHz

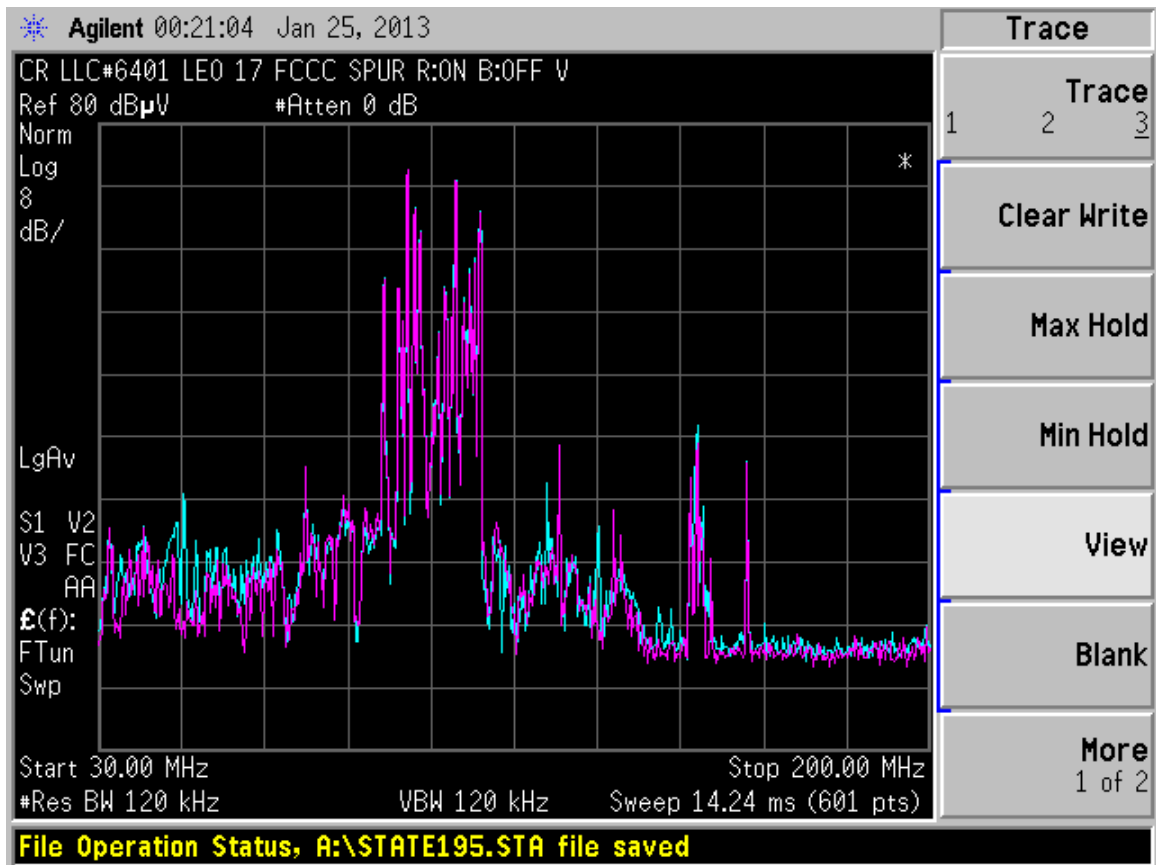
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Cortland Research LLC
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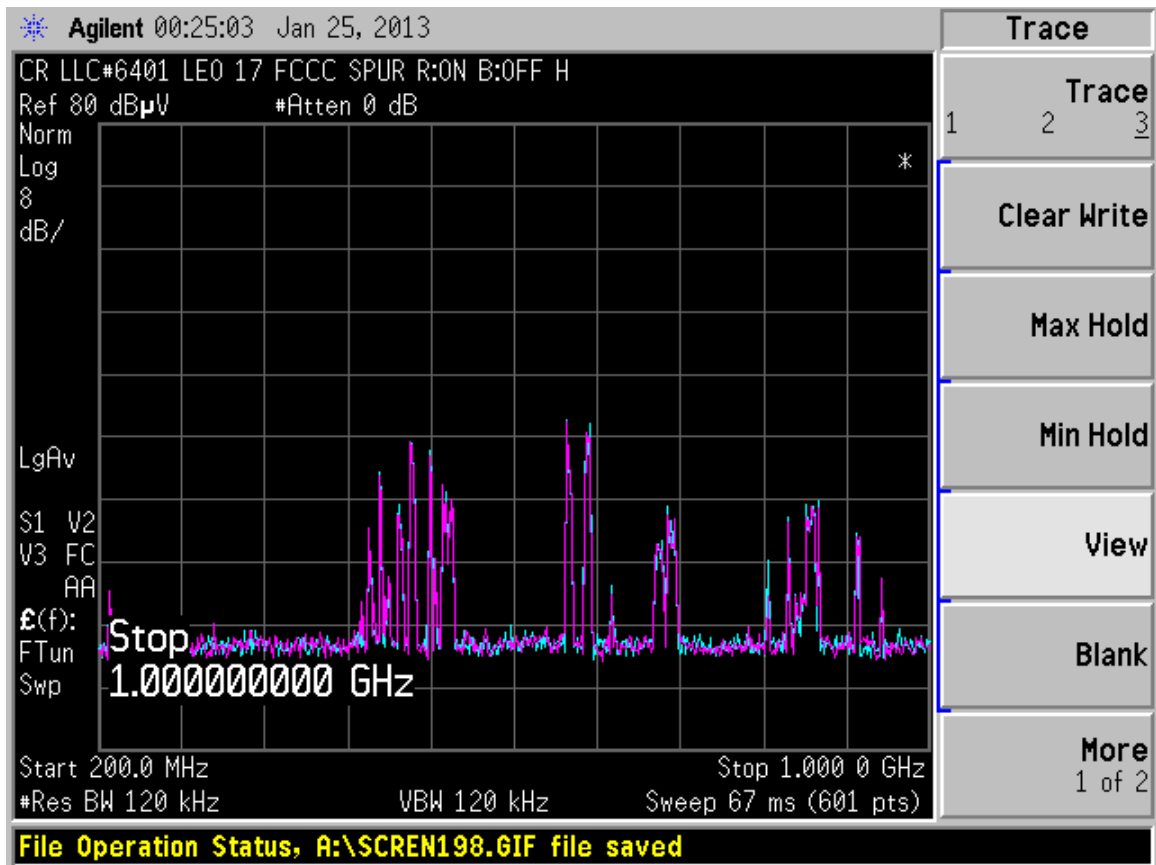
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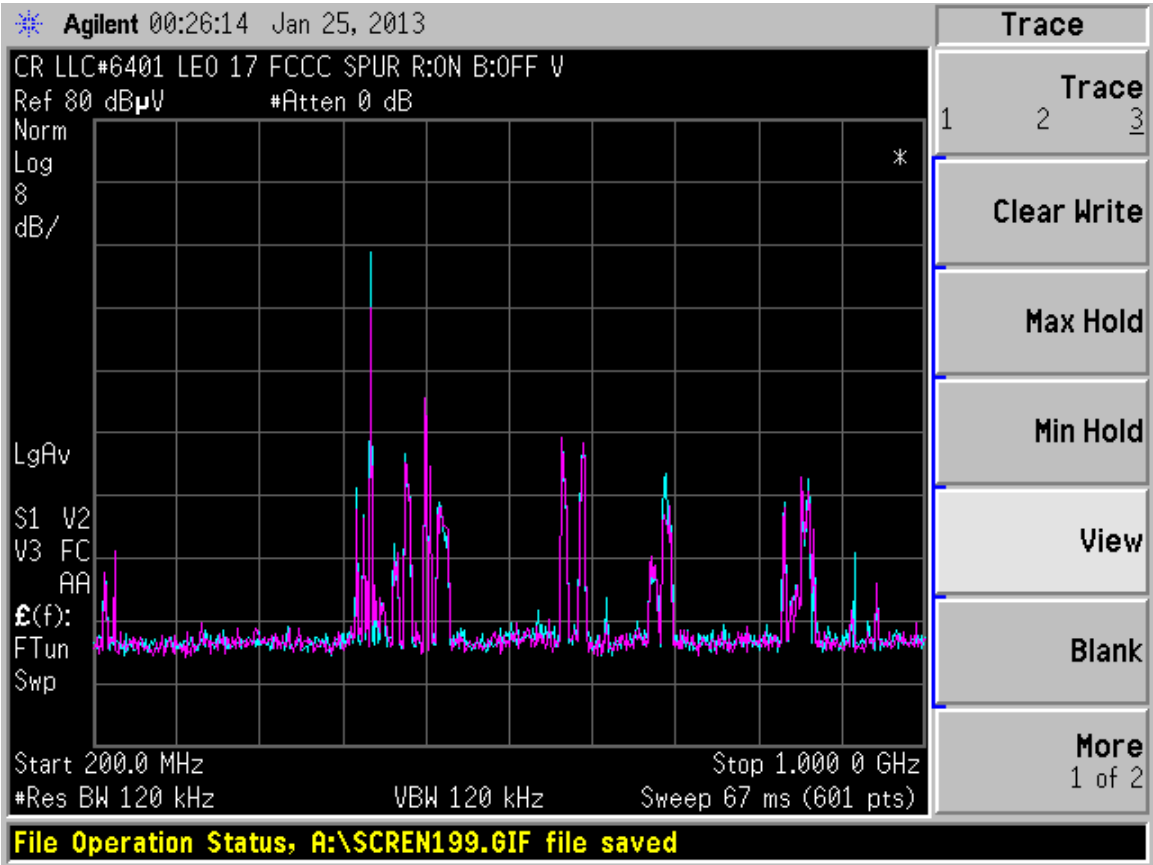
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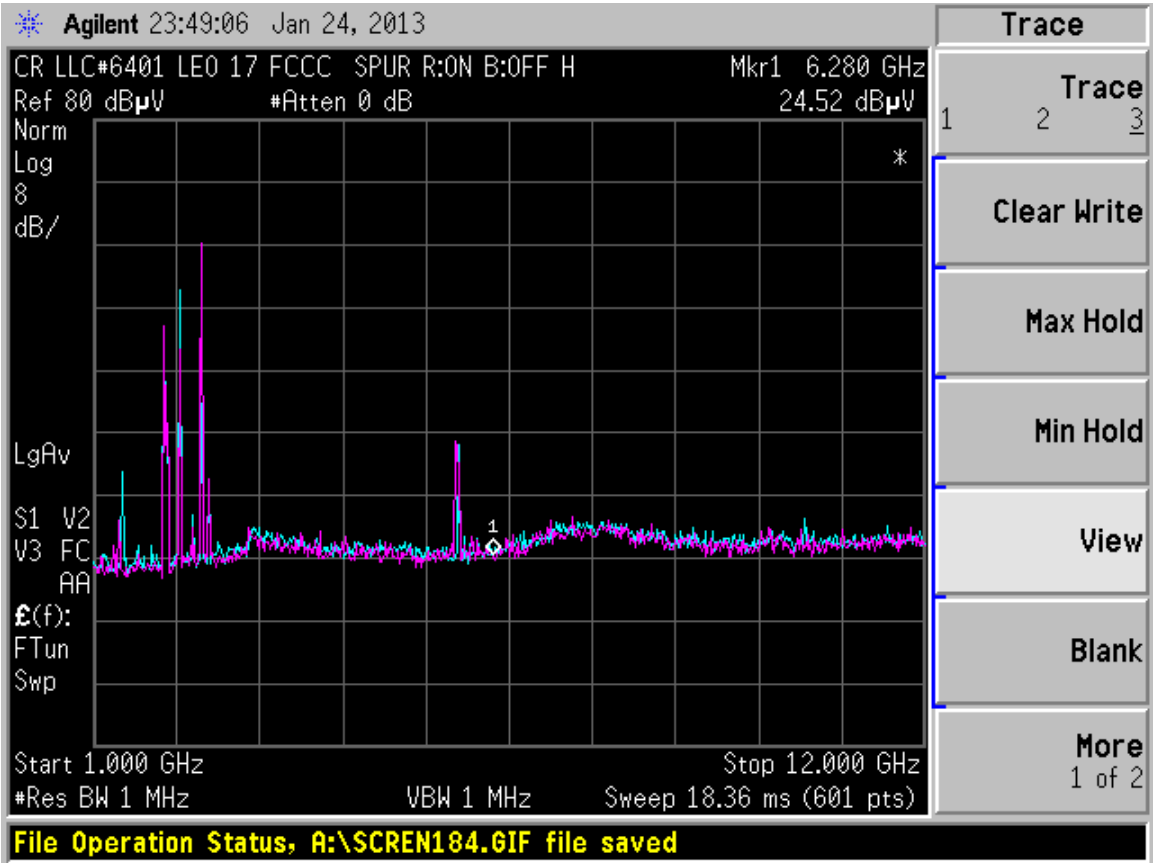
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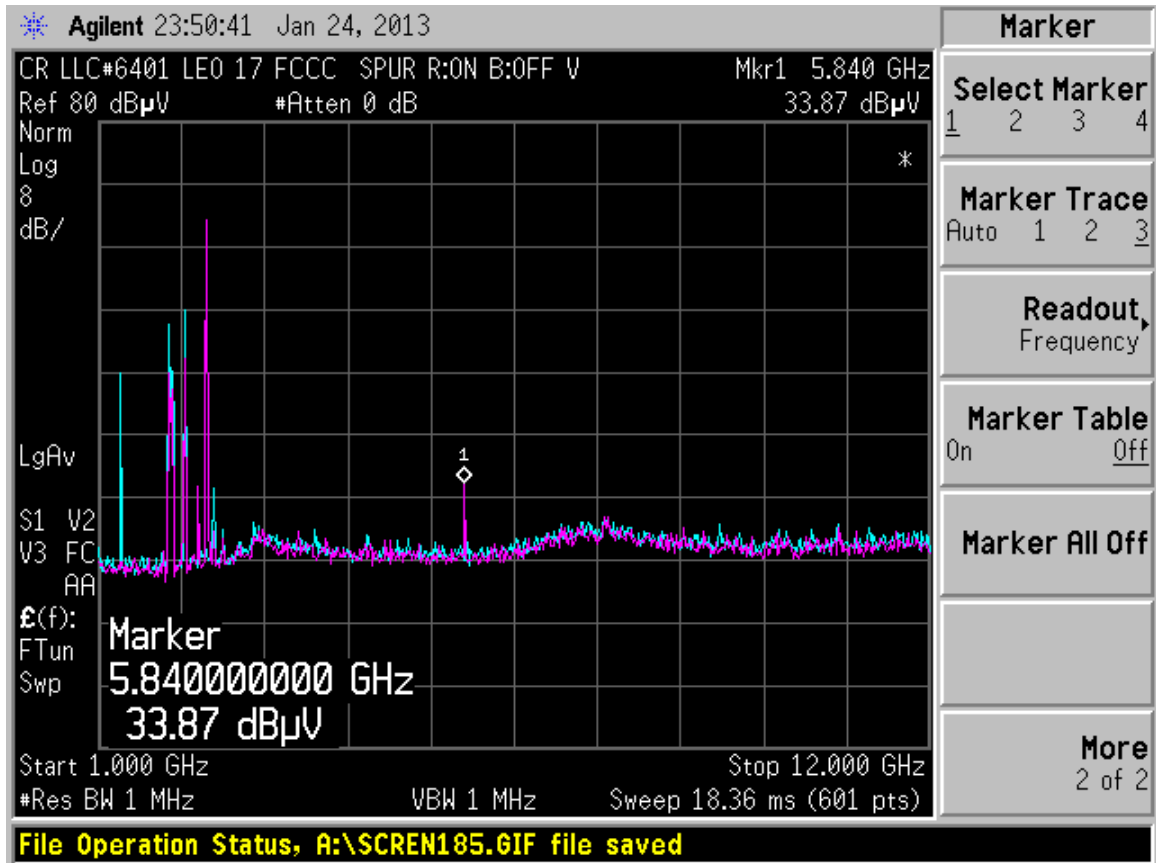
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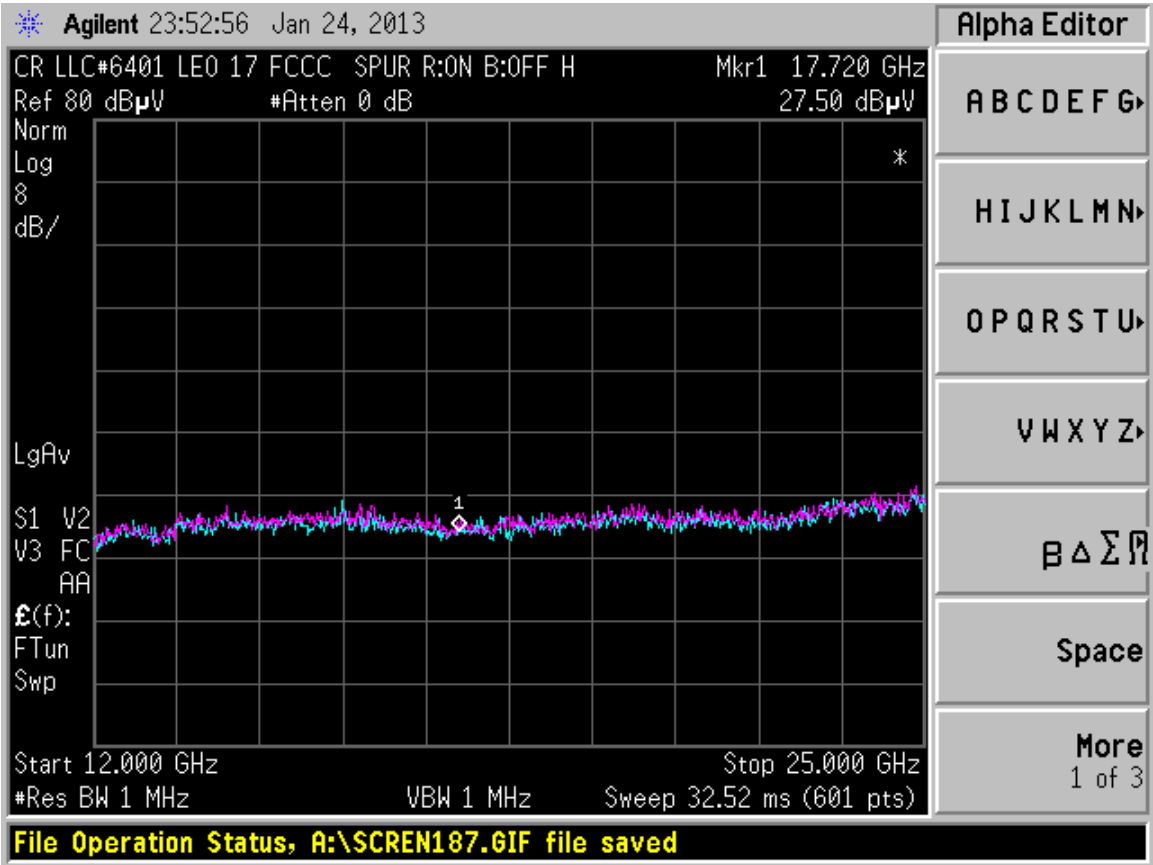
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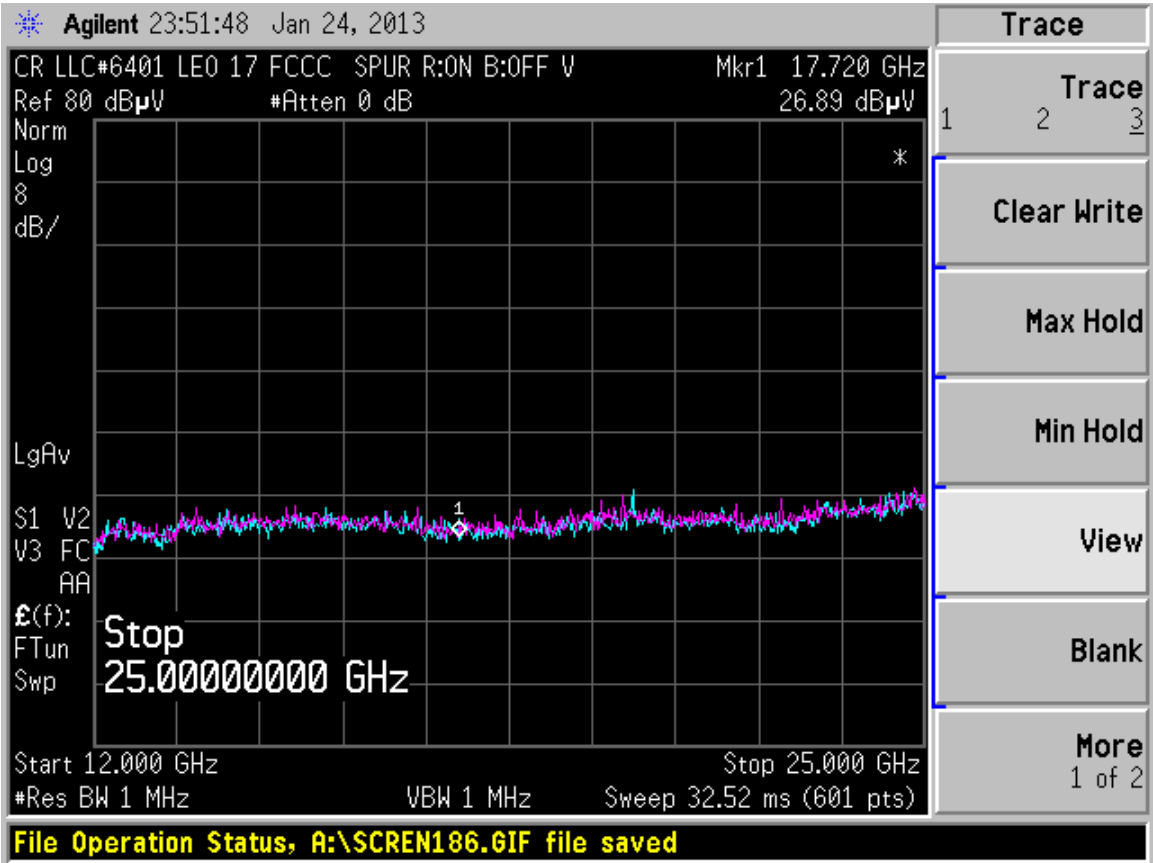
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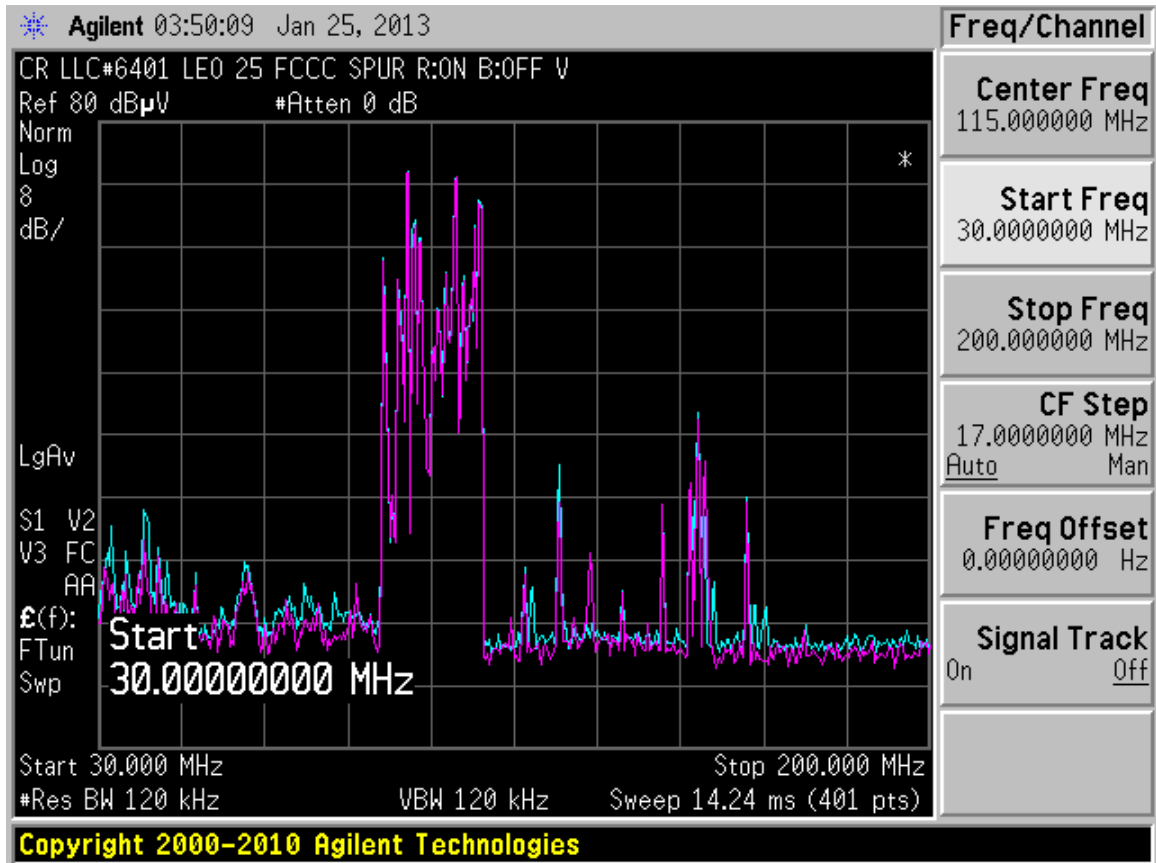
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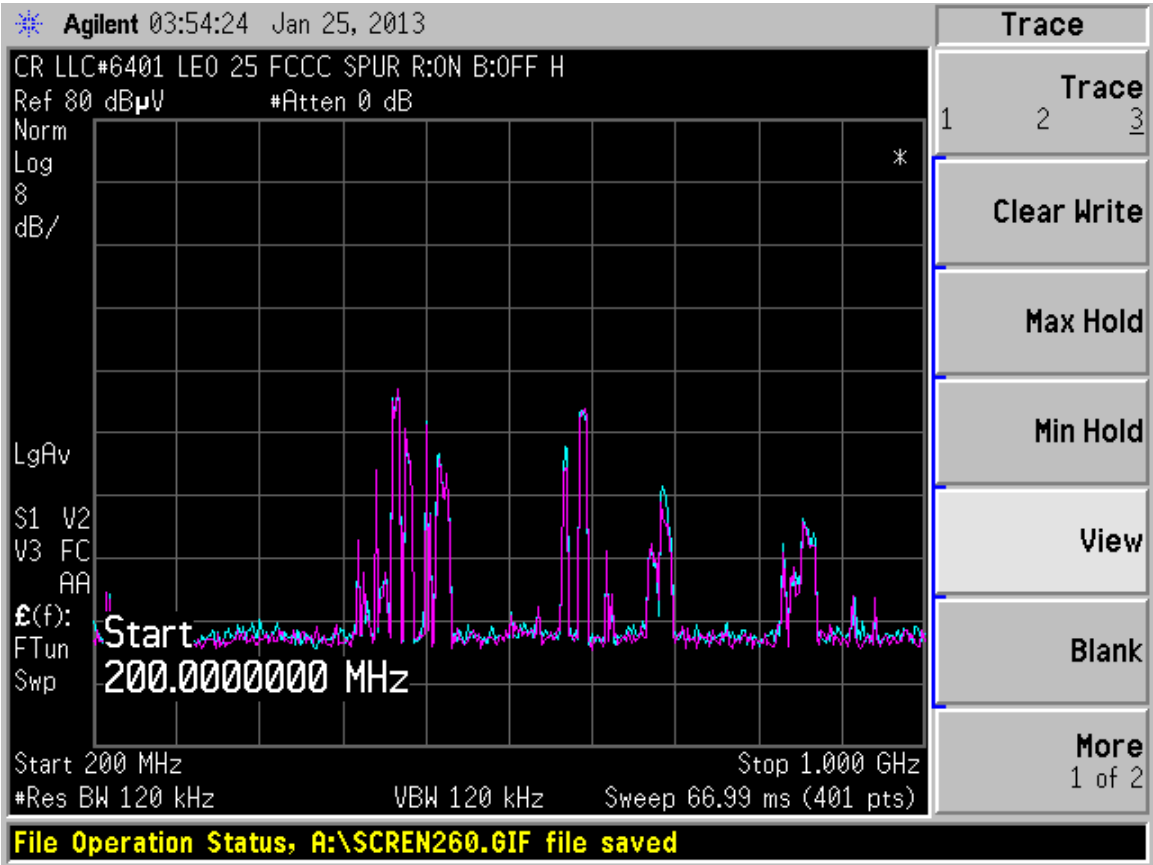
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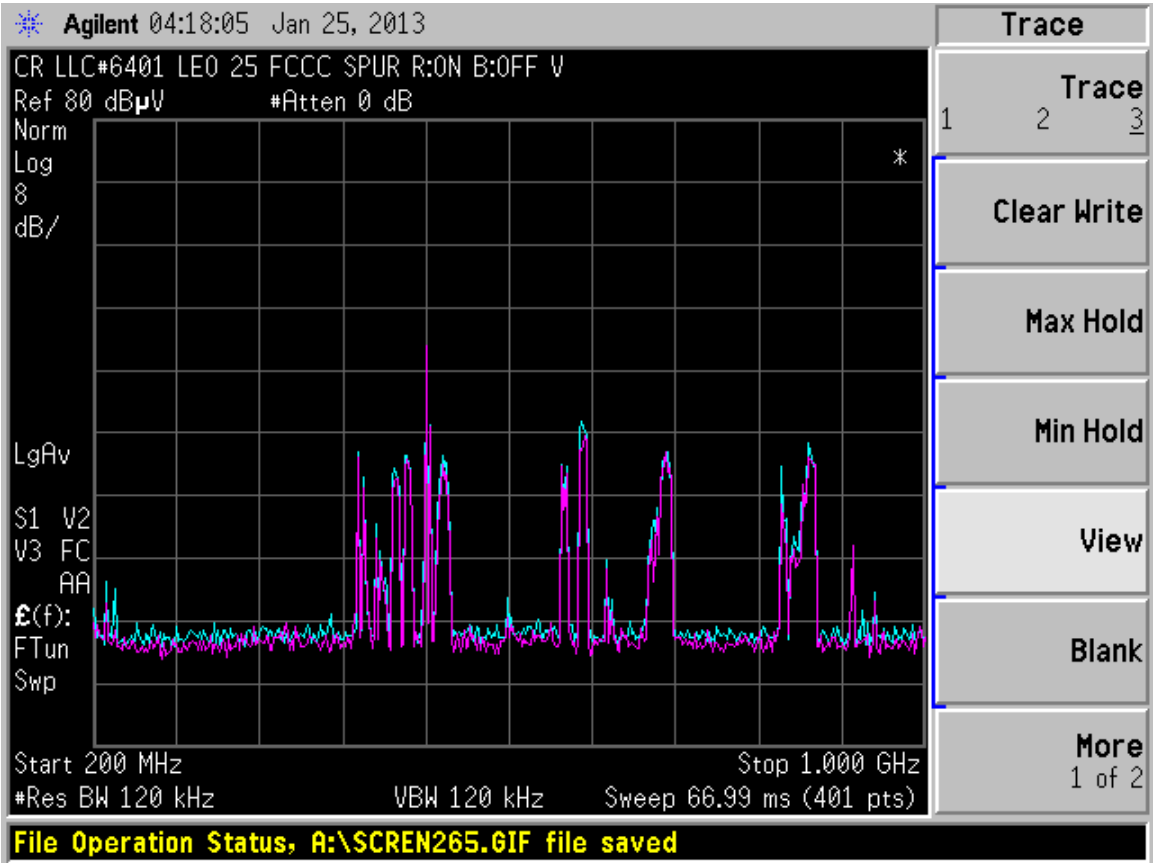
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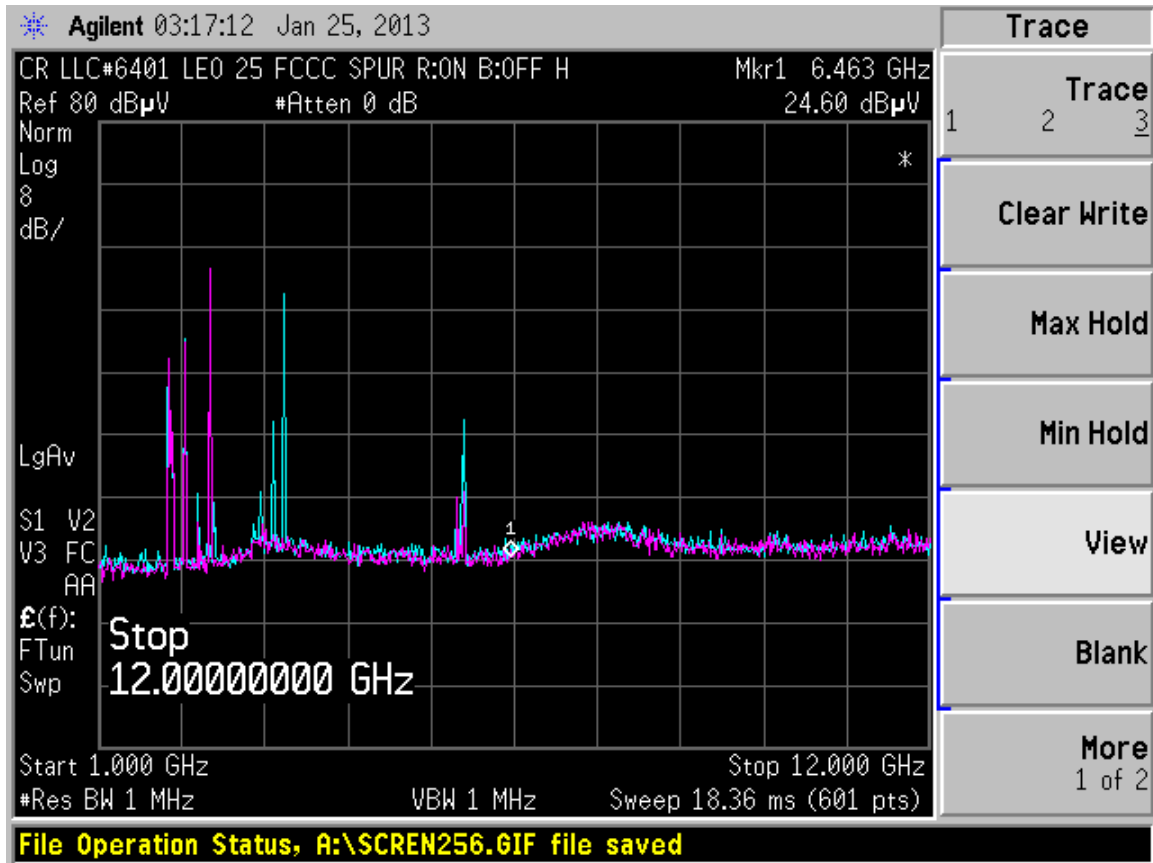
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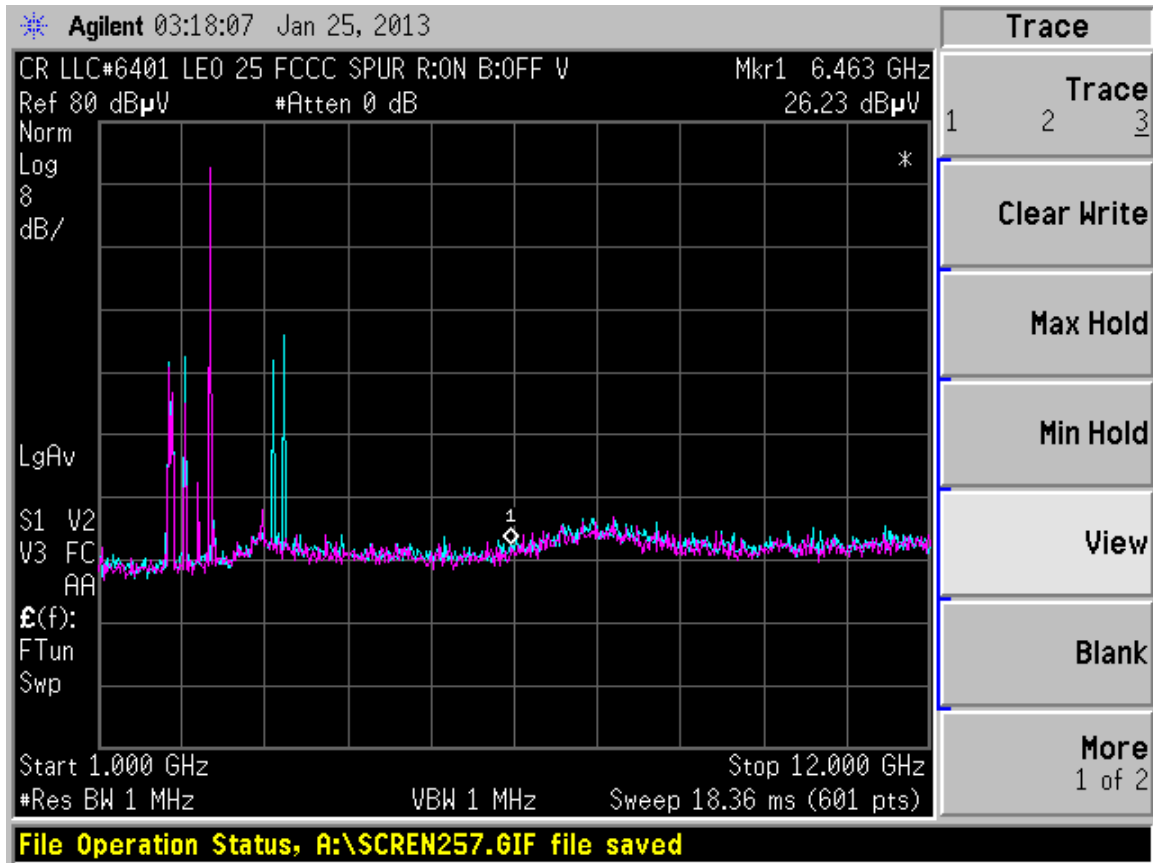
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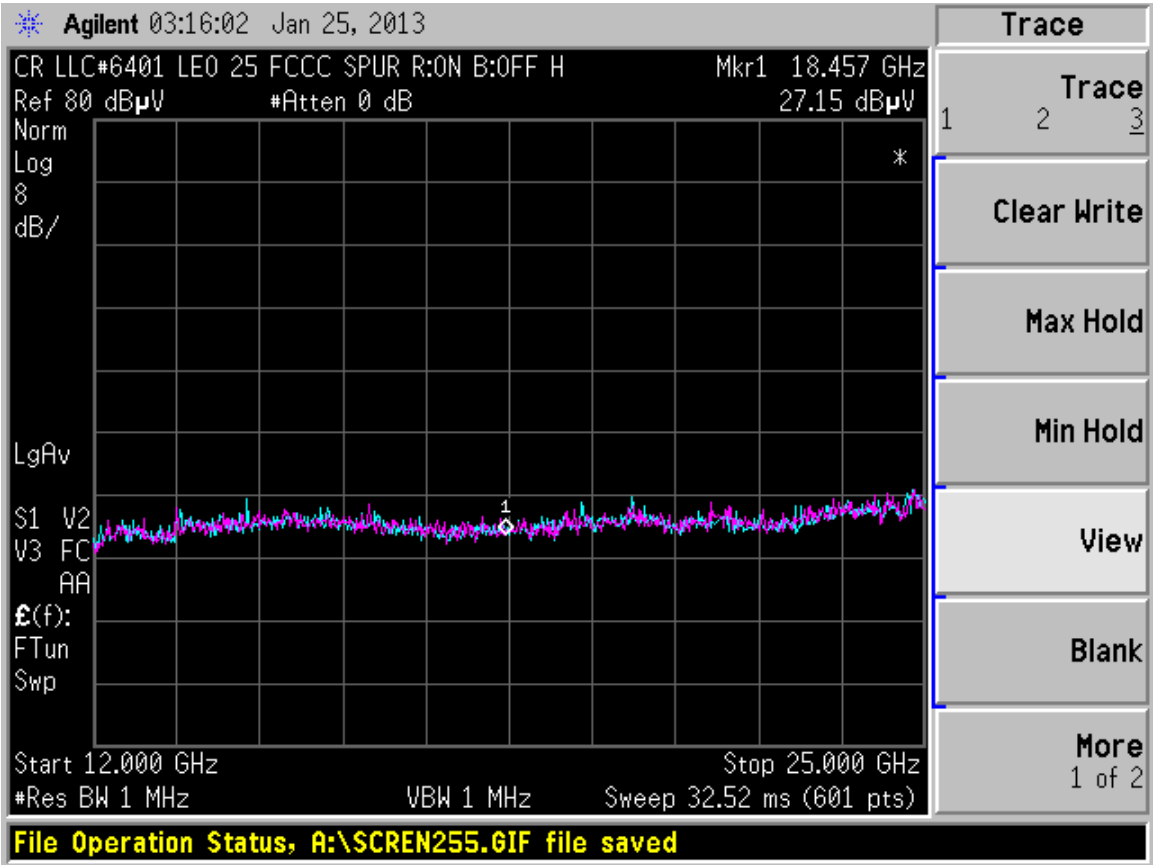
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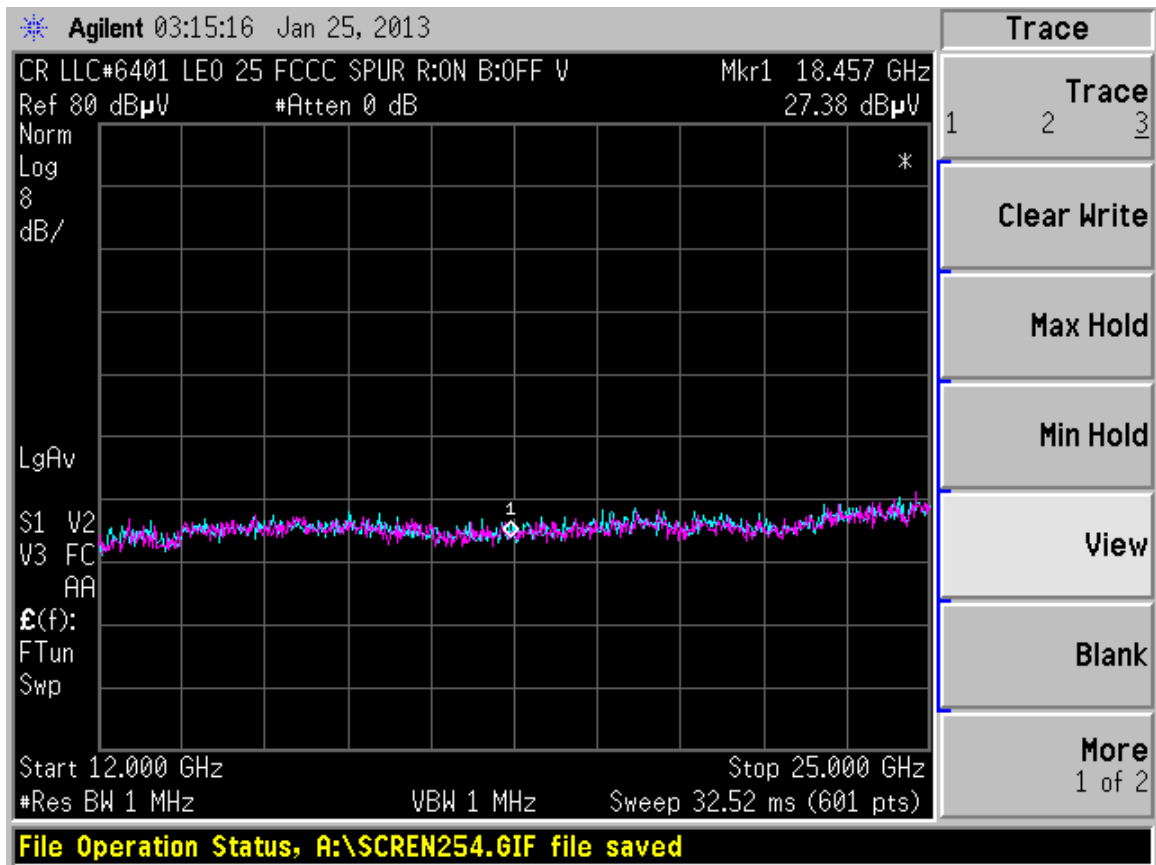
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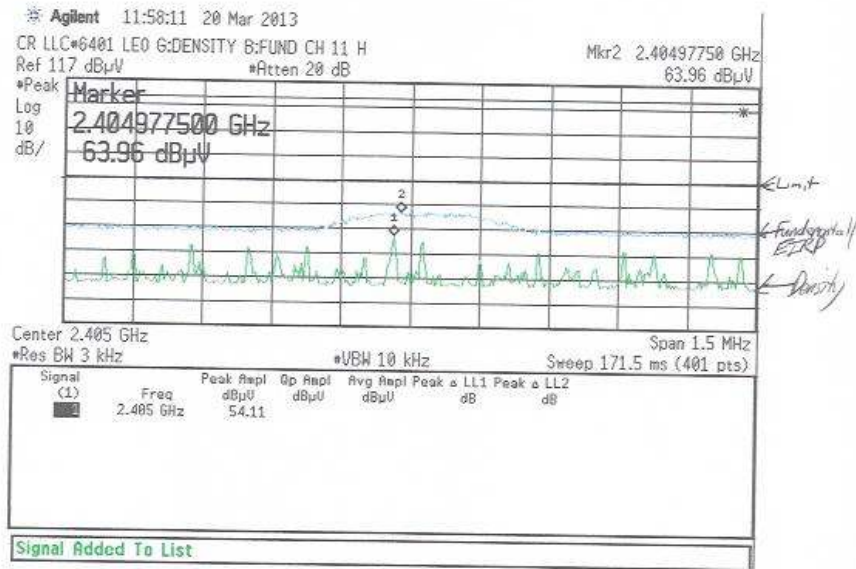
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6401

Power Spectral Density Test Data- Channel 11 2405 MHz

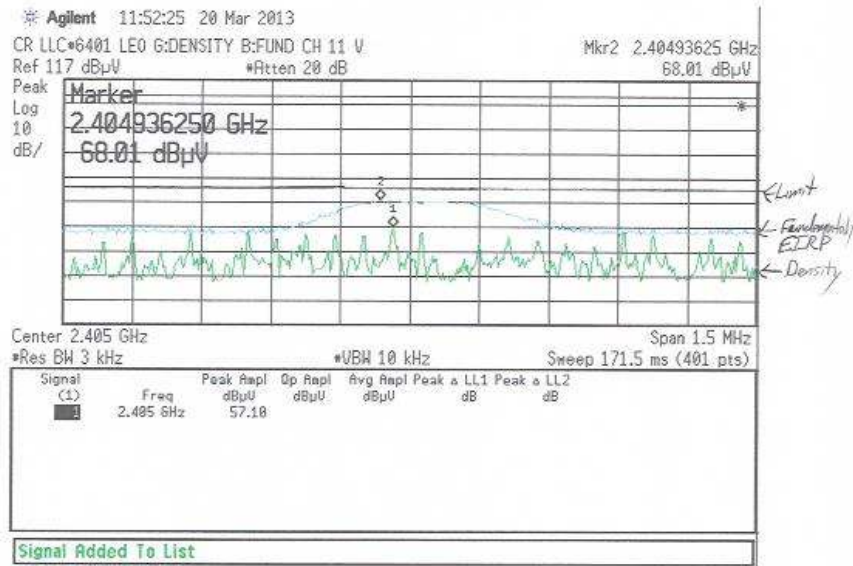
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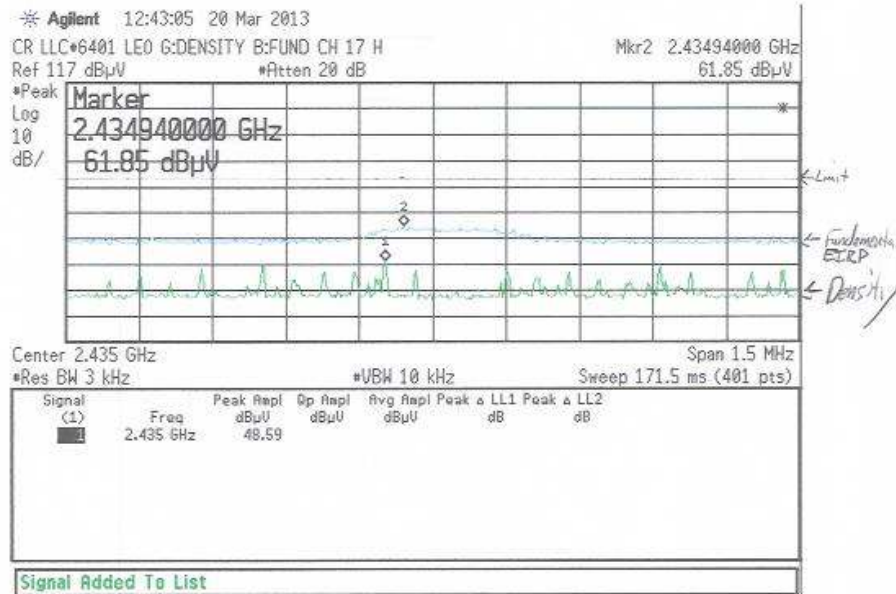
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Power Spectral Density Test Data- Channel 17 2435 MHz

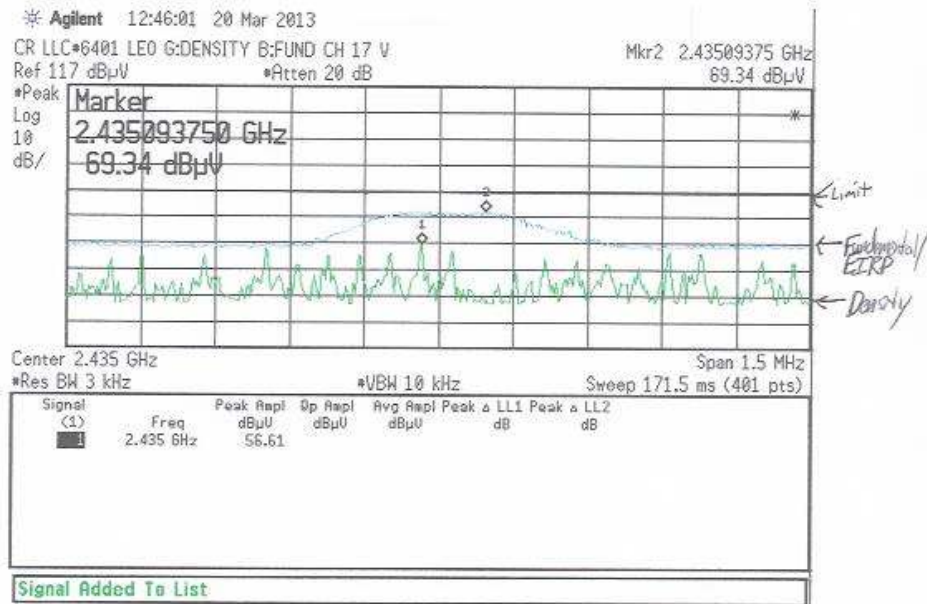
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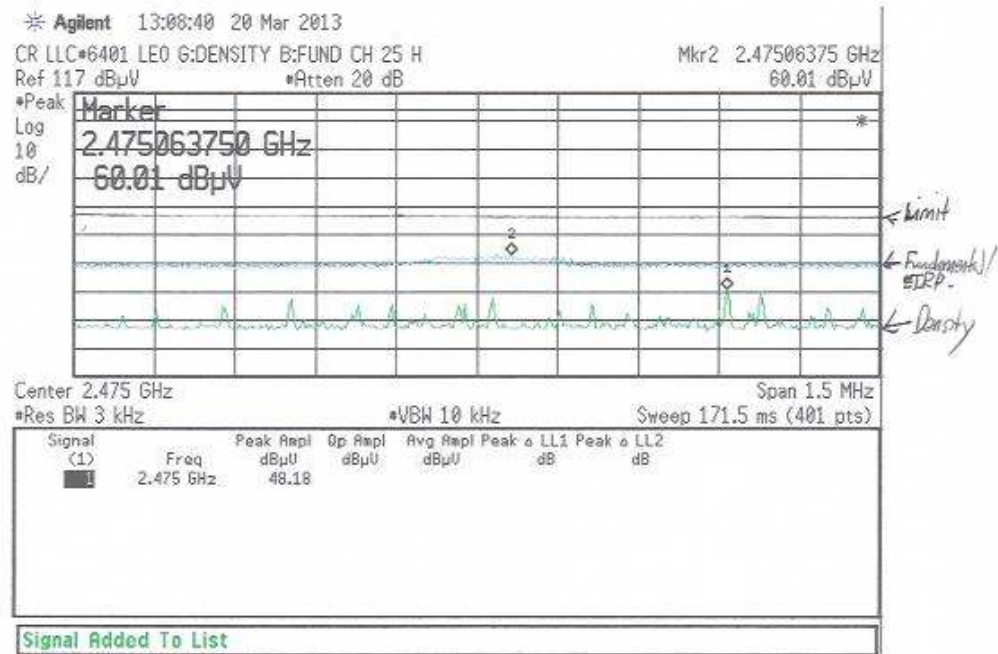
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Power Spectral Density Test Data- Channel 25 2475 MHz

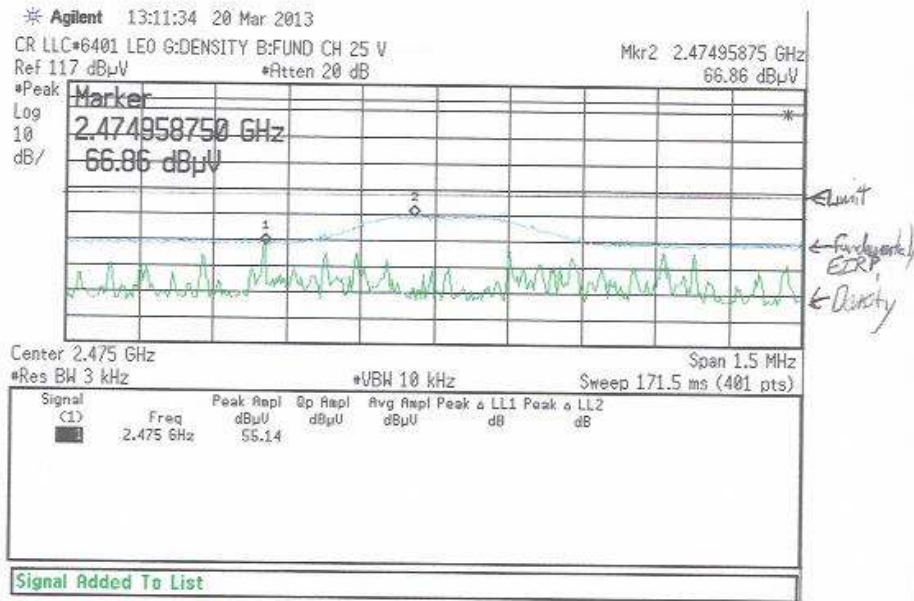
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Lower Band Edge Test Data

2 pages of data to follow.



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Upper Band Edge Test Data

2 pages of data to follow.



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DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT**Cortland Research LLC**
Leo OutletProject Number:
6401**Antenna Substitution (EIRP) Test Data**

Polarization (H or V)	Channel # (MHz)	Signal Generator Output (dBm)	Cable Loss (dB)	Antenna Gain (dB)	EIRP (dBm)
H	11-(2405)	-15	2	9	-8
V	11-(2405)	-7.5	2	9	-0.5
H	17-(2435)	-20	2	9	-13
V	17-(2435)	-9.5	2	9	-2.5
H	25-(2475)	-17	2.1	9	-10.1
V	25-(2475)	-10	2.1	9	-3.1

EIRP = Signal Generator Output + Antenna Gain – Cable Loss

Antenna Substitution Method Equipment Used

Manufacturer	Model	Description	Serial #	Cal.	Cal. Due
Agilent	E7402A	Spectrum Analyzer	MY45103221	03/27/12	03/27/13
Electro-Metrics	RGA60	Ridge Horn Antenna	2981	8/25/12	8/25/13
EMCO	3115	Horn Antenna	9602-1101	9/1/12	9/1/13
	MFR-57500	Blue low-loss transmit cable		CNR	CNR
	MFR-57500	Blue low-loss transmit cable		CNR	CNR
Hewlett Packard	8673D	Signal Generator	2747A00663	07/17/12	07/17/13

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FCC Part 15.207 Conducted Emissions Limits Test Data

4 pages of data to follow.

The Conducted Emissions measurements, in the frequency range of 0.45 MHz – 30 MHz, were tested in the Average and Quasi-Peak Modes with a Bandwidth of 9 kHz at the following test location:

- ☐ Diversified TEST Technologies, Inc. Open Area Test Site
☒ Diversified TEST Technologies, Inc. Lab

Conducted Emissions testing was performed indoors on a dedicated Conducted Emissions test table. The equipment under test (EUT) was powered by 120 VAC, 60 Hz AC receptacle of a 50-ohm Line Impedance Stabilizing Network (LISN) for measurement of the RF on the AC line and neutral. Each line was tested separately and the line not being tested was terminated by a 50-ohm terminator.

Test equipment used:

Manufacturer	Model	Description	Serial #	Cal.	Cal. Due
Agilent	E7402A	Spectrum Analyzer	MY45103221	03/27/12	03/27/13
Hewlett Packard	1320	Printer		CNR	CNR
Electro-Metrics	FCC/VDE-25/2	50 ohm LISN	1017	06/12/12	06/12/13
		Co-ax Cable (LISN to receiver) 20-foot RG 223/U		CNR	CNR
		Non-conductive (wood) table, 0.8 meters off ground		CNR	CNR

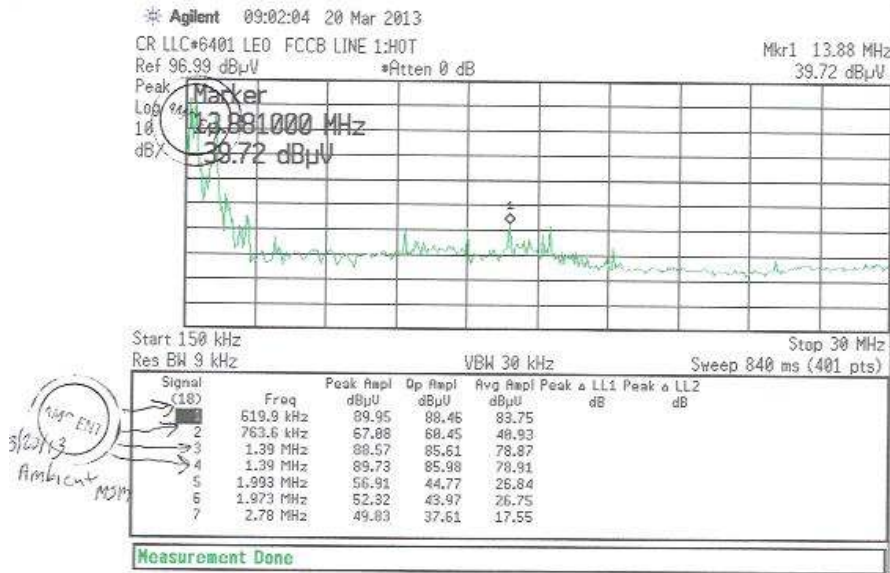
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Conducted Emissions Test Data

4 page of data to follow.



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Sig. #	Freq. (MHz)	Peak (dBuV)	QP (dBuV)	Avg (dBuV)	Comm.
1	0.619907	89.95	88.46	83.75	
2	0.763557	67.08	60.45	40.93	
3	1.390449	88.57	85.61	78.87	
4	1.389944	89.73	85.98	78.91	
5	1.992729	56.91	44.77	26.84	
6	1.972834	52.32	43.97	26.75	
7	2.779957	49.83	37.61	17.55	
8	2.707071	40.64	29.68	17.51	
9	5.747775	29.72	29.45	24.14	
10	9.477610	29.61	30.43	30.27	
11	9.914863	28.60	24.70	19.09	
12	12.105350	39.32	36.95	36.53	
13	12.103382	29.90	25.75	21.49	
14	13.844721	50.00	47.79	43.55	
15	15.826261	32.15	28.98	37.38	
16	15.826445	42.17	40.43	40.06	
17	17.592077	25.75	19.04	10.04	
18	25.173510	23.97	21.44	19.33	

CURRENT SETTINGS

Current Ampcor Settings
Ampcor is OFF
Antenna Corrections are OFF
Antenna Freq Corrections are LIN
Cable Corrections are OFF
Other Corrections are OFF
User Corrections are OFF

Current Limit Settings
Limit Line 1 Display is OFF
Limit Line 1 Margin is OFF
Limit Line 1 Margin Value is 0.00 dB
Limit Line 1 Limit Testing is OFF

Limit Line 2 Display is OFF
Limit Line 2 Margin is OFF
Limit Line 2 Margin Value is 0.00 dB
Limit Line 2 Limit Testing is OFF

Current Frequency Settings
Center Frequency is 15.07 MHz
Frequency Span is 29.85 MHz
Start Frequency is 150 kHz
Stop Frequency is 30 MHz
CF Step Size is 2.985 MHz
Frequency Offset 0 Hz
The Frequency Scale is LIN

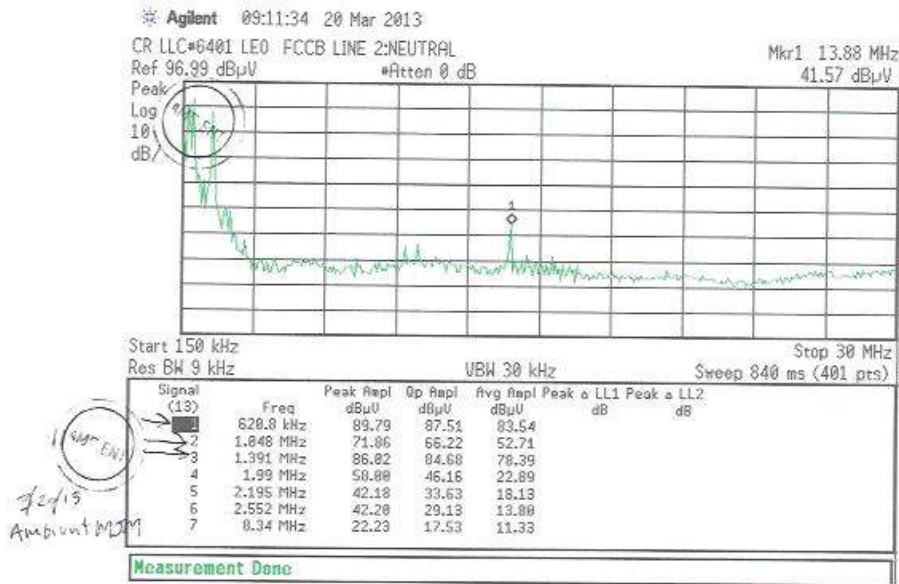
Current Sweep Settings
Sweep time is 840 ms

Current Bandwidth Settings
The RBW is 9 kHz
The Video Bandwidth is 30 kHz
The VBW/RBW ratio is 3.33
Averaging is OFF

DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT

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DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT

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Sig. #	Freq. (MHz)	Peak (dBuV)	QP (dBuV)	Avg (dBuV)	Comm.
1	0.620790	89.79	87.51	83.54	
2	1.048314	71.86	66.22	52.71	
3	1.391020	86.02	84.68	78.39	
4	1.990356	58.00	46.16	22.89	
5	2.195285	42.18	33.63	18.13	
6	2.552256	42.20	29.13	13.80	
7	8.339875	22.23	17.53	11.33	
8	9.980567	31.33	27.95	26.49	
9	10.824750	30.07	25.21	15.84	
10	12.105884	30.98	28.99	27.50	
11	12.996538	29.46	24.45	14.88	
12	13.844456	47.85	45.12	43.02	
13	15.609654	34.09	32.23	32.02	

3/20/13
Ambient N3M

CURRENT SETTINGS

Current Ampcor Settings

Ampcor is OFF
Antenna Corrections are OFF
Antenna Freq Corrections are LIN
Cable Corrections are OFF
Other Corrections are OFF
User Corrections are OFF

Current Limit Settings

Limit Line 1 Display is OFF
Limit Line 1 Margin is OFF
Limit Line 1 Margin Value is 0.00 dB
Limit Line 1 Limit Testing is OFF

Limit Line 2 Display is

Limit Line 2 Display is OFF
Limit Line 2 Margin is OFF
Limit Line 2 Margin Value is 0.00 dB
Limit Line 2 Limit Testing is OFF

Current Frequency Settings

Center Frequency is 15.07 MHz
Frequency Span is 29.85 MHz
Start Frequency is 150 kHz
Stop Frequency is 30 MHz
CF Step Size is 2.985 MHz
Frequency Offset is 0 Hz
The Frequency Scale is LIN

Current Sweep Settings

Swepttime is 840 ms

Current Bandwidth Settings

The RBW is 9 kHz
The Video Bandwidth is 30 kHz
The VBW/RBW ratio is 3.33
Averaging is OFF
Average Count is 100

Current Amplitude Settings

Reference Level is 96.99 dBuV
Reference Level Offset is 0.0 dB

<i>DIVERSIFIED T.E.S.T. TECHNOLOGIES, INC. TEST REPORT</i>	
Cortland Research LLC Leo Outlet	Project Number: 6401

Measurement Protocol

The method to calculate field strength was $\text{Field Strength (dBuV/m)} = \text{Signal Level (dBuV)} + \text{Antenna Factor (dB)} + \text{Cable Loss (dB)}$

The measurement detector used during the testing of the EUT was a peak detector.

The methodology used during the testing performed on the EUT in this report was ANSI C63.4:2003.

The EUT was powered with 120 VAC 60 Hz during the collection of data included within this report.

The data is compared to FCC Part 15.247 Class C limits.

Please have a company official review this report and sign.

