

advancedligo

DCC Number: E070243-00-X

Date Prepared: 17 Oct 2007

| Originator | Cognizant Engineer | Ext./Phone# | Project | Account Number |
|-------------------|--------------------|--------------|---------------|---|
| Name Janeen Romie | Name: Janeen Romie | 225-686-3109 | Enhanced LIGO | LIGO.ELSUQ, 5.10.3.3, NSFLIGO.FY02CA & LIGO.EHOMM, 5.10.2.2, NSFLIGO.FY02CA |

| Dwg/Part Number | Rev | Part Description / Material | Serial Number | Qty |
|-----------------|-----|---|---------------|-----|
| D070386 | A | Quake Stop Axial Screw, 1/2-13 BeCu Screws | | 120 |

Used In (next higher assembly): D070452, 3/8-16 EQ Stop Assy

| Vendor Name | PO/Contract Number |
|---------------------------|--------------------|
| Phinney Bay Machine Works | CP562363 |

Data Package, Receiving/Inspection Remarks:

| Inspection Required Y/N | Visual Damage Y/N | Comments | Name/ Initials | Date Comp. |
|-------------------------|-------------------|----------|-----------------------|------------|
| Y | N | | Janeen/JHR <i>JHR</i> | 10-25-07 |

Process Flow:

| # | Operation | Start Date | Work Area | Instructions | Name/ Initials | Date Comp. |
|---|-------------|------------|---------------------|---|----------------|------------|
| 1 | Clean | | LLO | per E960022 | Henry O. | 10-29-07 |
| 2 | Vacuum Bake | | LLO C IT | Bake at 50 C so as not to affect the spring rate <i>Ship to Bob-Taylor</i> | | |

N.B.: A copy of this traveller must be submitted to the DCC each time the original is shipped with the associated part(s) and when the traveller has been completed.

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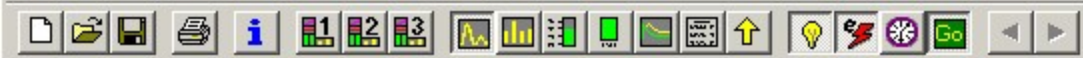
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| # | Operation | Start Date | Work Area | Instructions | Name/ Initials | Date Comp. |
|--|---------------------------------|------------|-----------|---|----------------|------------|
| 3 | Control Point | | | Review/Approve RGA scan | | |
| 4 | Wrap & Tag vacuum clean parts | | | | | |
| 5 | Ship and Deliver/File paperwork | | | Please send to: Janeen Romie, LLO File one copy of traveler with the DCC. Note: Ship original traveler with these parts. | | |
| END: Go to Traveler or procedure associated with next higher assembly processing | | | | | | |

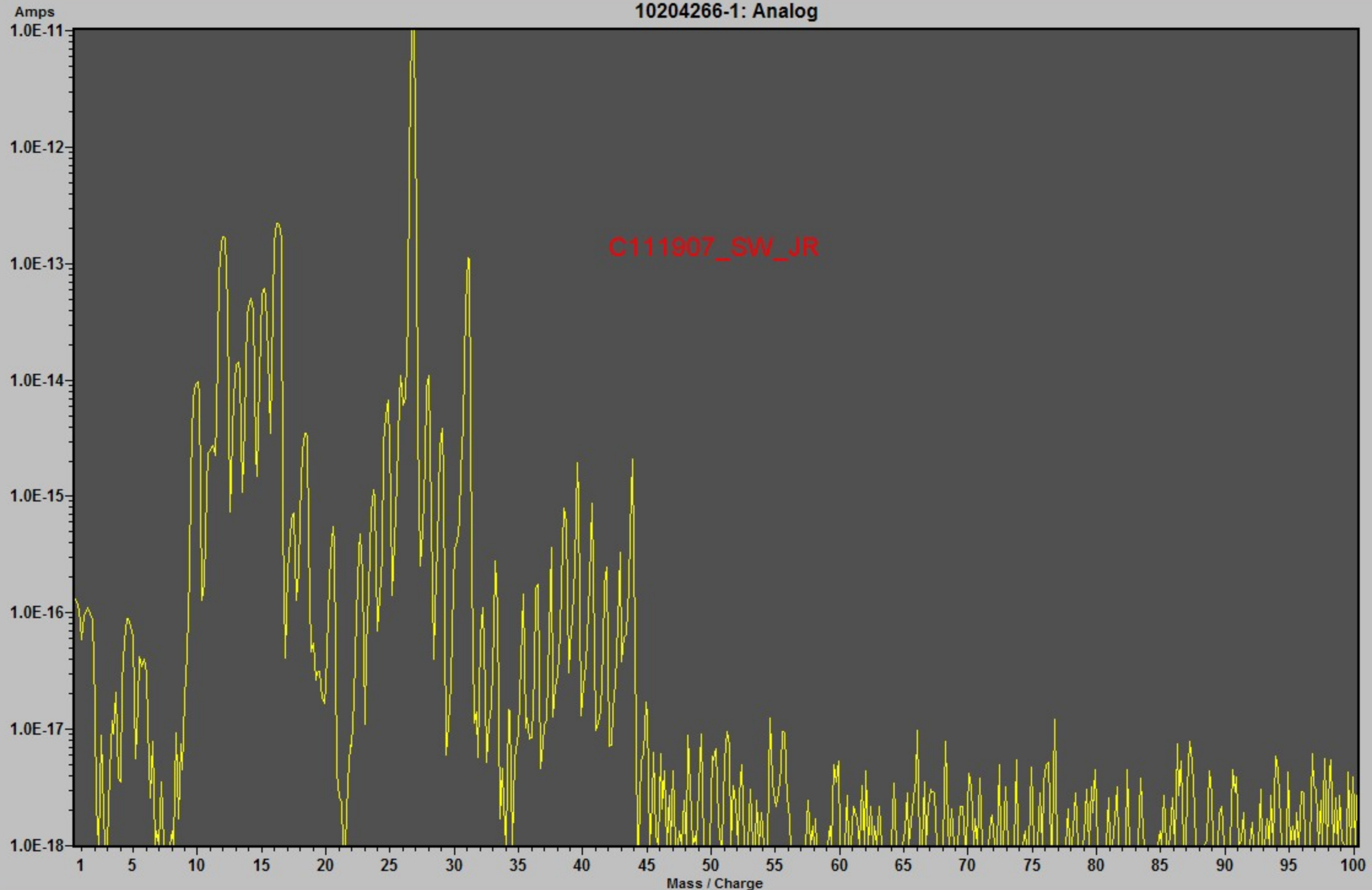
Special Instructions (Handling/Packaging Constraints, Remarks, etc.) or Notes:

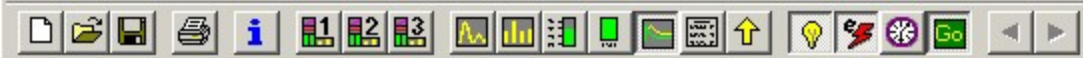
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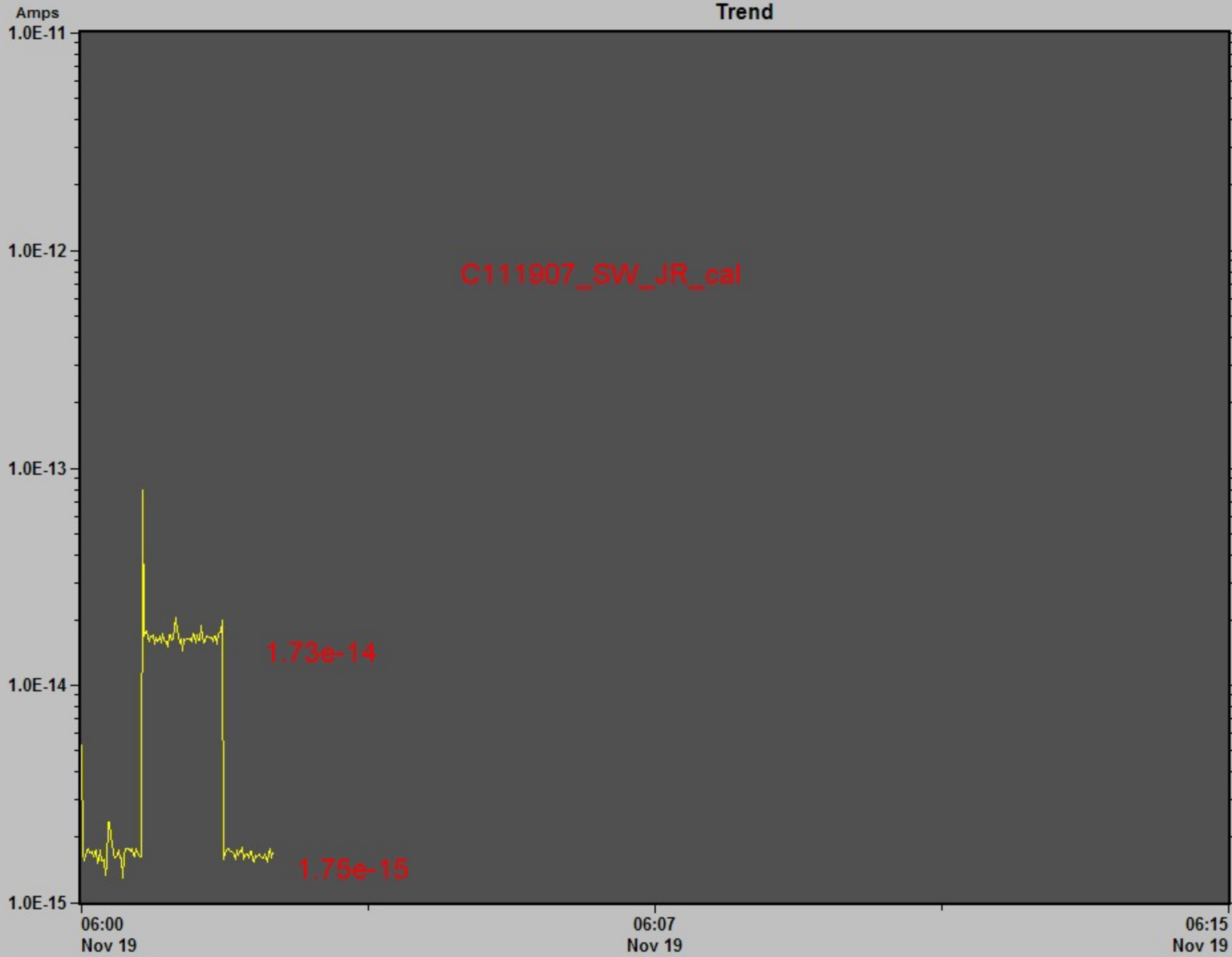


10204266-1: Analog





Trend



10204266-1: 28 1.73E-15

Pressure Contribution from Flag Hydrocarbons

40M Lab RGA Scan Results

Job# C111907_SW_JR

Description: AL Parts-Beam Dumps-Stops
Oven Used: C

Date: 11/19/2007

AMU 41 4.73E-16 amps from RGA scan listing
AMU 43 3.71E-16 amps from RGA scan listing
AMU 53 2.98E-18 amps from RGA scan listing
AMU 55 1.21E-17 amps from RGA scan listing
AMU 57 0.00E+00 amps from RGA scan listing

Sum Flag H/C AMUs 8.59E-16 amps

Calib leak rate 2.36E-10 torr l/s (Argon)

AMU 40 (w/leak open) 1.73E-14 amps

AMU 40 (background) 1.75E-15 amps

Calib leak contributes 1.56E-14 amps = (w/leak open) - (background)

Flag H/C Outgassing 1.304E-11 torr l/s = (Sum Flag H/C AMUs) x (Calib leak rate)/(Calib leak contrib.)

Test item surf area 1.00E+04 cm²

Normalized outgassing 1.304E-15 torr l/s-cm² = Flag H/C Outgassing/Test item surf area

Full description: Aluminum Optic Mounts, 8 Beam dumps, 230 EQ stops, 120 1/2-13 Bronze Screws
Mixed load with three travelers

Pre-scan bake: 120C for 48HRS