

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 3664 - L2 Version 002
Chandra X-Ray Center

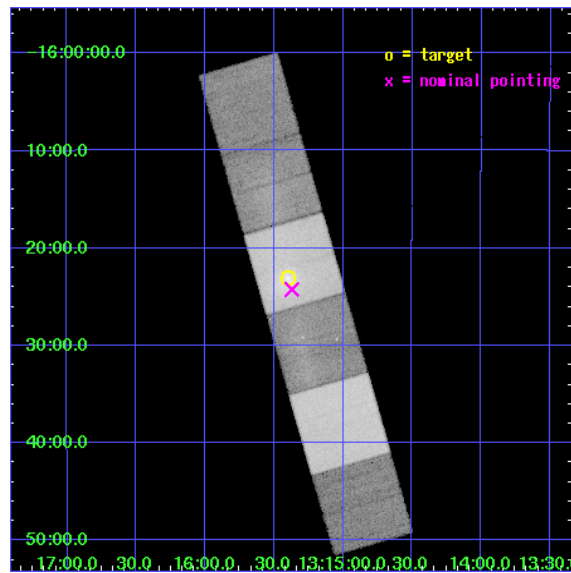
L2 Processing Date : Mar 27 2007

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1 Front

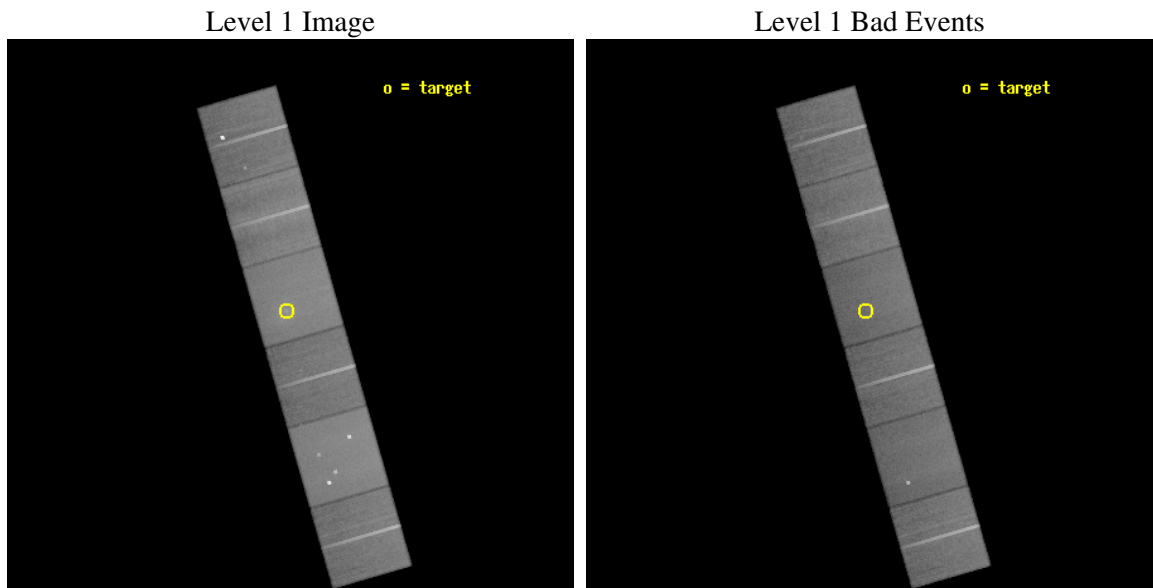
seq_num	800225
obs_id	3664
title	ANATOMY OF THE X-RAY GROUP NGC 5044
observer	PROF. STEVEN KAHN
object	NGC 5044
dtcycle	0
cycle	P
ra_targ	198.850417
dec_targ	-16.385
ra_nom	198.84269017924
dec_nom	-16.404425483635
roll_nom	253.93585023781
revision	4
ontime	62115.199768603
livetime	61328.65970785
ontime4	62111.958778411
ontime5	62115.199768603
ontime6	62111.958798319
ontime7	62115.199768603
ontime8	62115.199768603
ontime9	62115.199768603
l2events	674472



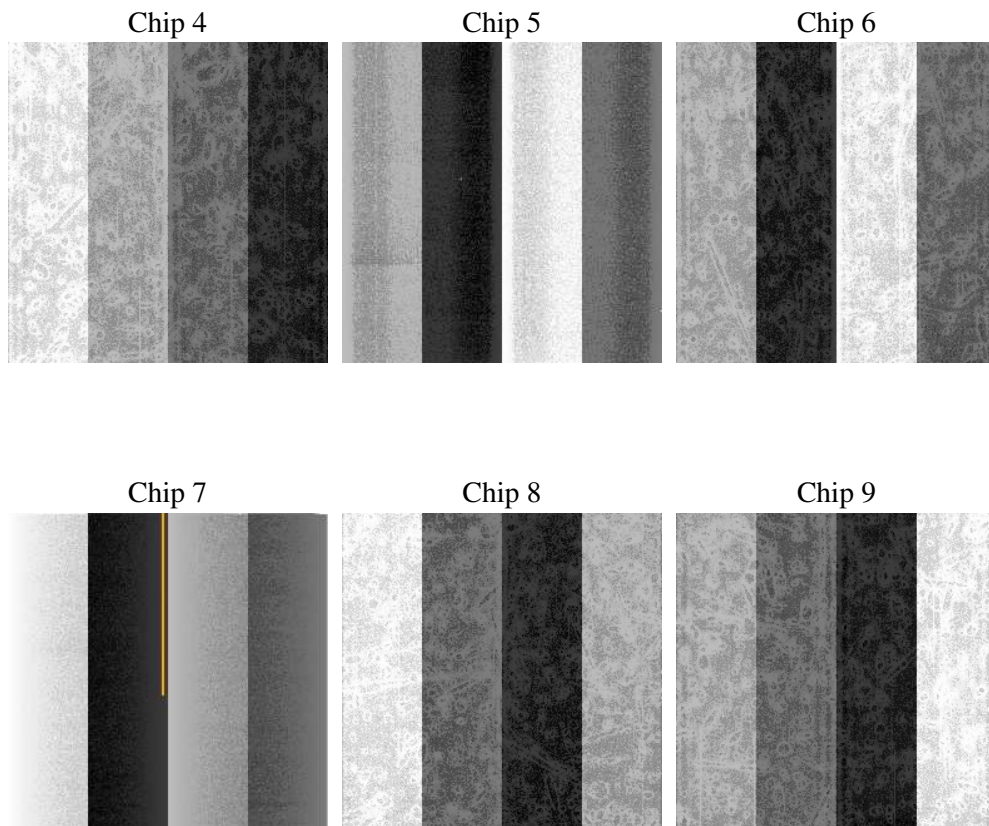
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.3
date	2006-09-19T11:16:34
revision	3

sched_exp_time	62156.471000
ontime	62115.199768603
ontime4	62111.958778411
ontime5	62115.199768603
ontime6	62111.958798319
ontime7	62115.199768603
ontime8	62115.199768603
ontime9	62115.199768603
l1events	2957798

2.1.4 Events

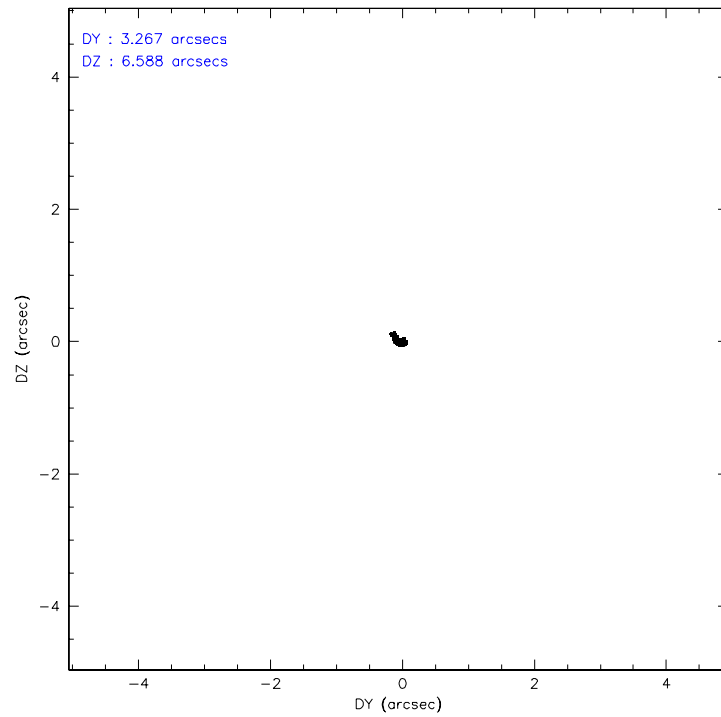
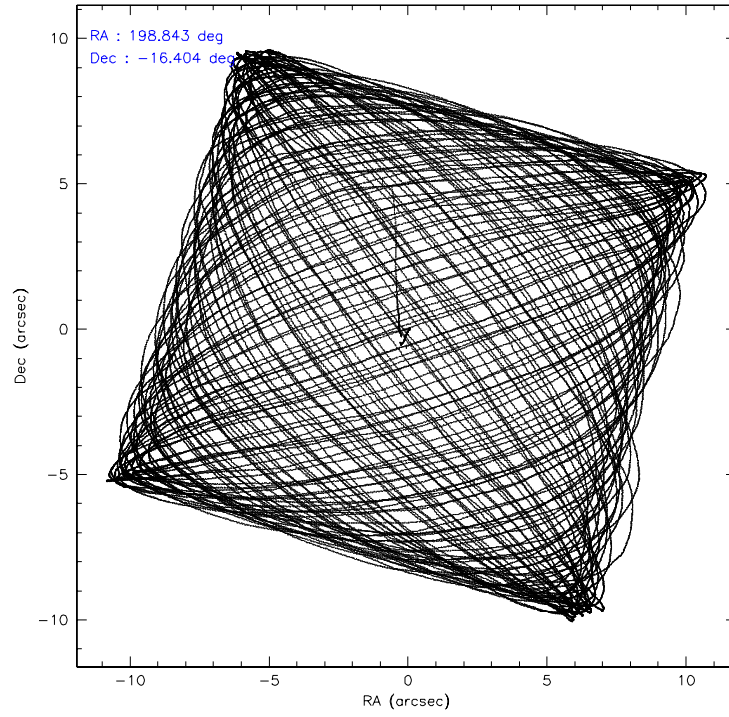
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	438722	597449	417321	557345	520721	426240
rejected events	388772	324096	353989	322728	403618	355343
rejected %	88%	54%	84%	57%	77%	83%

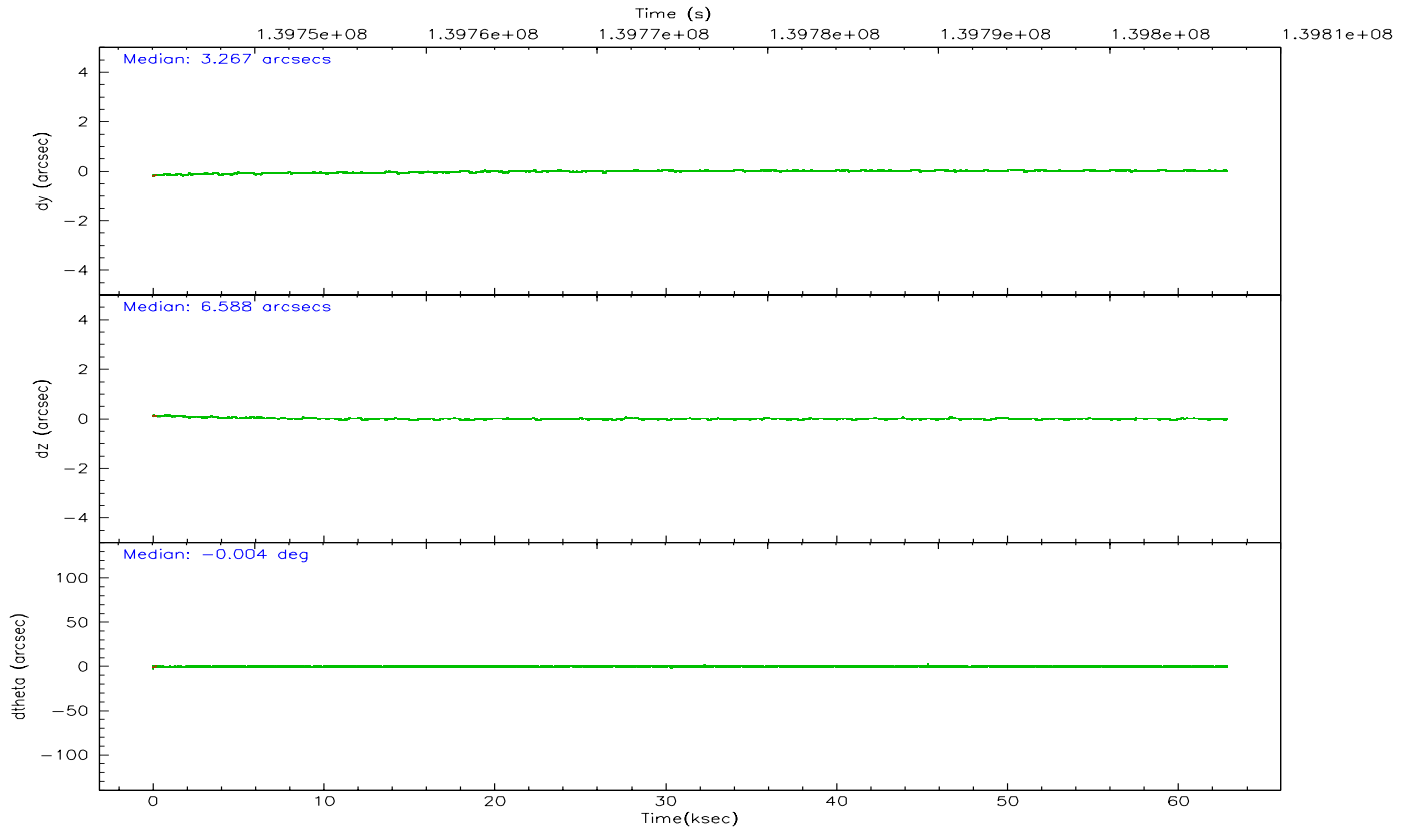
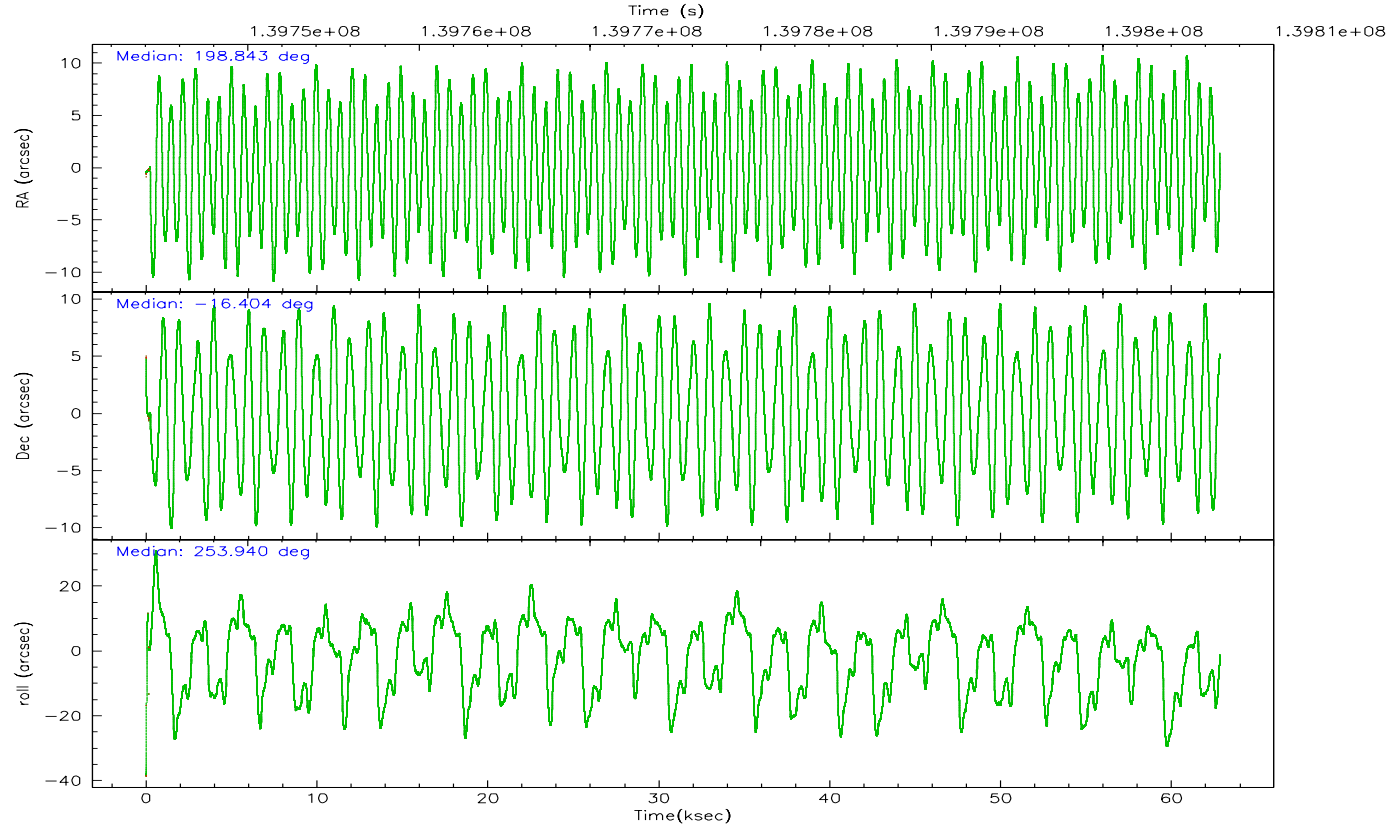
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	20425	34826	32706	21113	44295	41278
	4%	5%	7%	3%	8%	9%
grade 1 events	215	3855	231	291	315	250
	0%	0%	0%	0%	0%	0%
grade 2 events	12005	81301	11087	59315	24007	10336
	2%	13%	2%	10%	4%	2%
grade 3 events	4430	6346	5042	14478	10969	4868
	1%	1%	1%	2%	2%	1%
grade 4 events	4293	5935	4922	14168	10484	4737
	0%	0%	1%	2%	2%	1%
grade 5 events	14640	28299	17375	35091	22831	18154
	3%	4%	4%	6%	4%	4%
grade 6 events	8799	144975	9588	125569	27354	9688
	2%	24%	2%	22%	5%	2%
grade 7 events	373915	291912	336370	287320	380466	336929
	85%	48%	80%	51%	73%	79%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	198.835514	198.8426901792439	Subarray requested	NONE	NONE
Pointing Dec	-16.378066	-16.40442548363526	Alternating exposures requested	N	N
Pointing Roll	253.777212	253.9358502378149	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Observation start time	139744721.184000	139743514.84696			
Observation start date	2002-06-06T09:57:37	2002-06-06T09:38:34			
Observation end time	139806878.184000	139807192.46207			
Observation end date	2002-06-07T03:13:34	2002-06-07T03:19:52			
Read mode	TIMED	TIMED			

2.3 Aspect



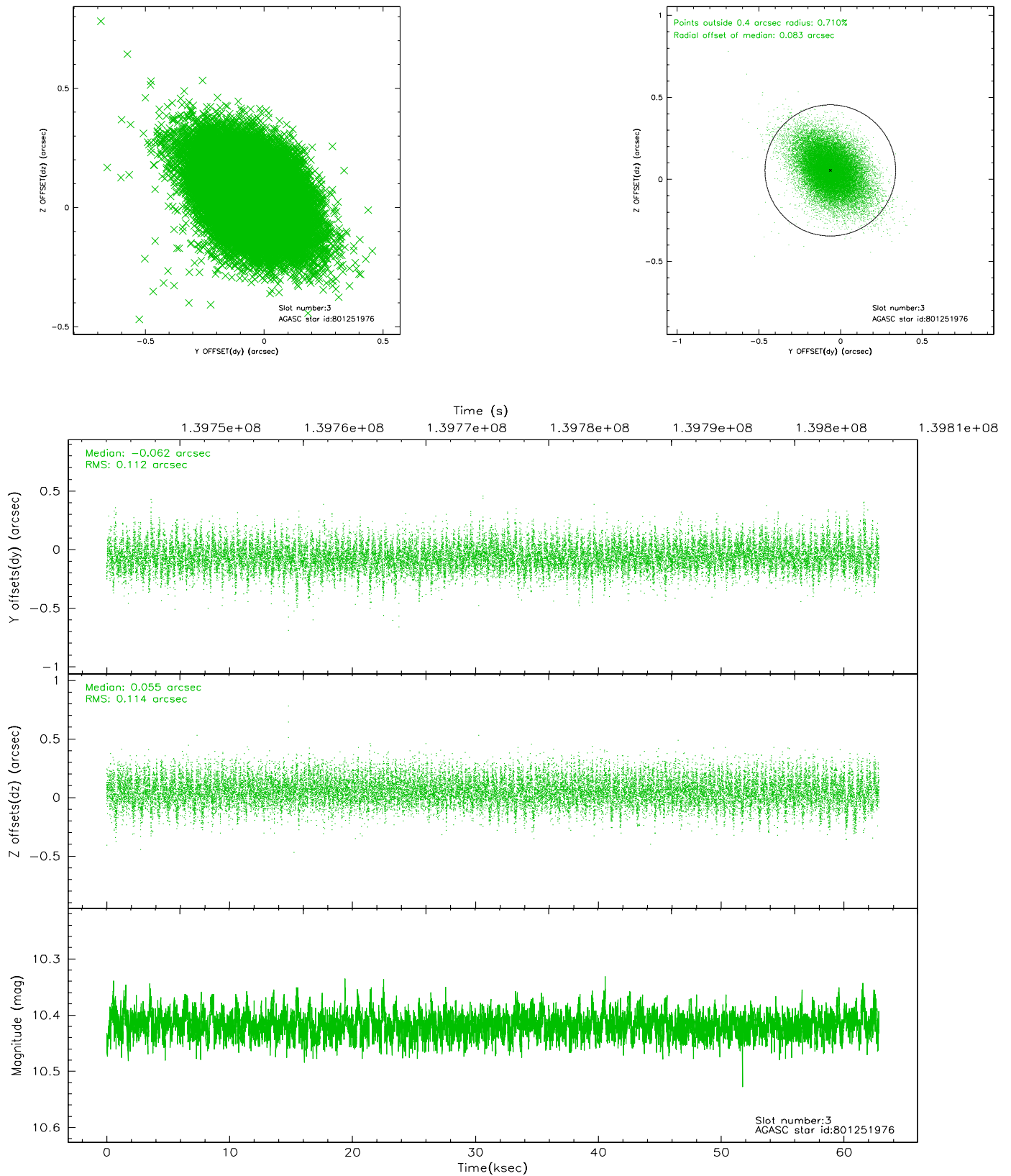


Slot Statistics

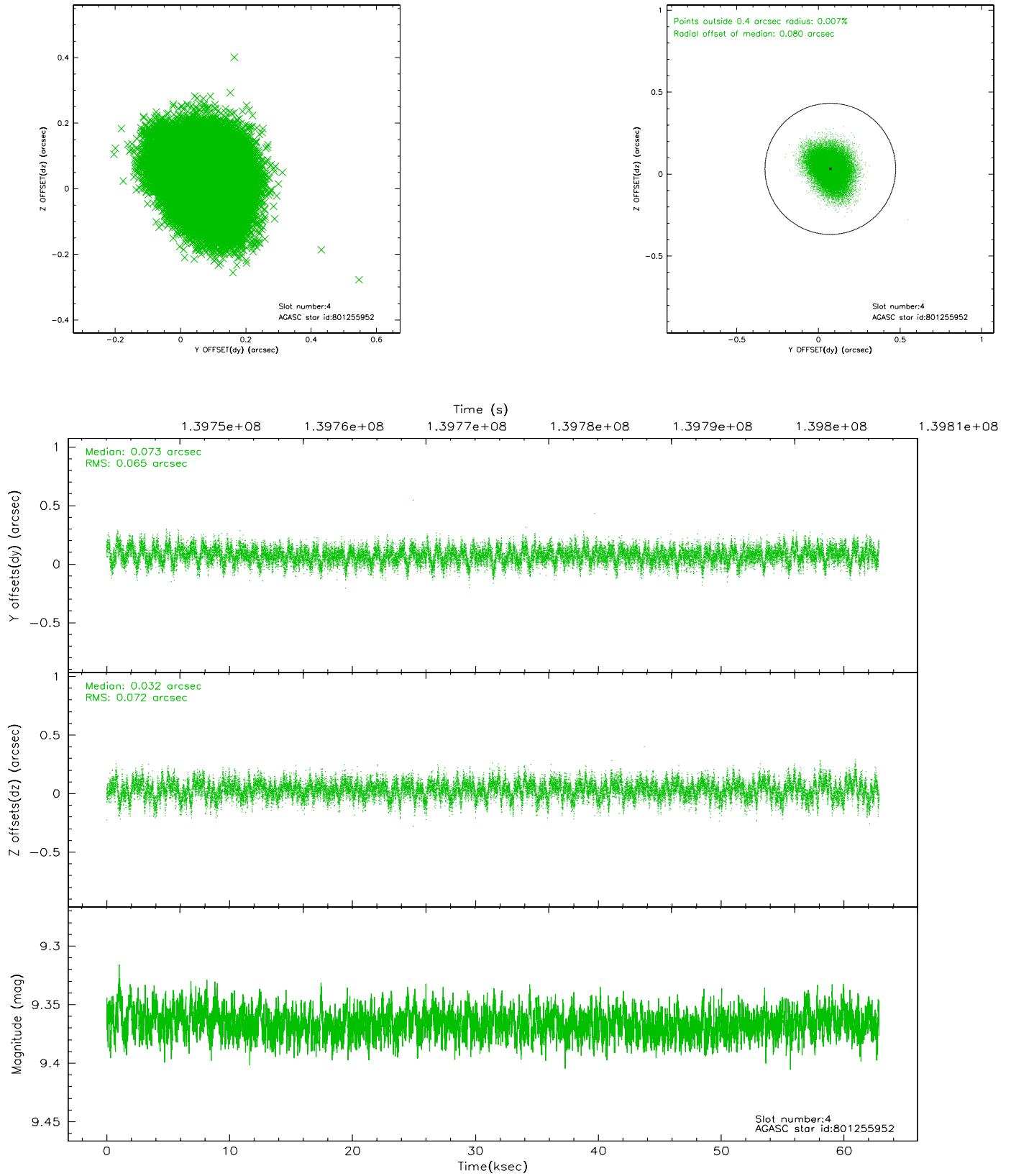
	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2
	FID	ACIS-S-2	7.10	15314	-0.026	-0.035	0.007	0.011
	FID	ACIS-S-4	7.20	15314	-0.022	0.022	0.006	0.010
	FID	ACIS-S-5	7.23	15315	0.017	0.022	0.007	0.012
	GUIDE	801251976	10.42	30292	-0.062	0.055	0.165	0.285
	GUIDE	801255952	9.37	30615	0.073	0.032	0.103	0.169
	GUIDE	801252224	9.48	30614	0.010	0.022	0.133	0.222
	GUIDE	801245432	8.78	30625	-0.019	-0.100	0.070	0.116
0.000	0.000	0.000	0.000000	0.000000	0.00	0.00		

2.4 Star Slots

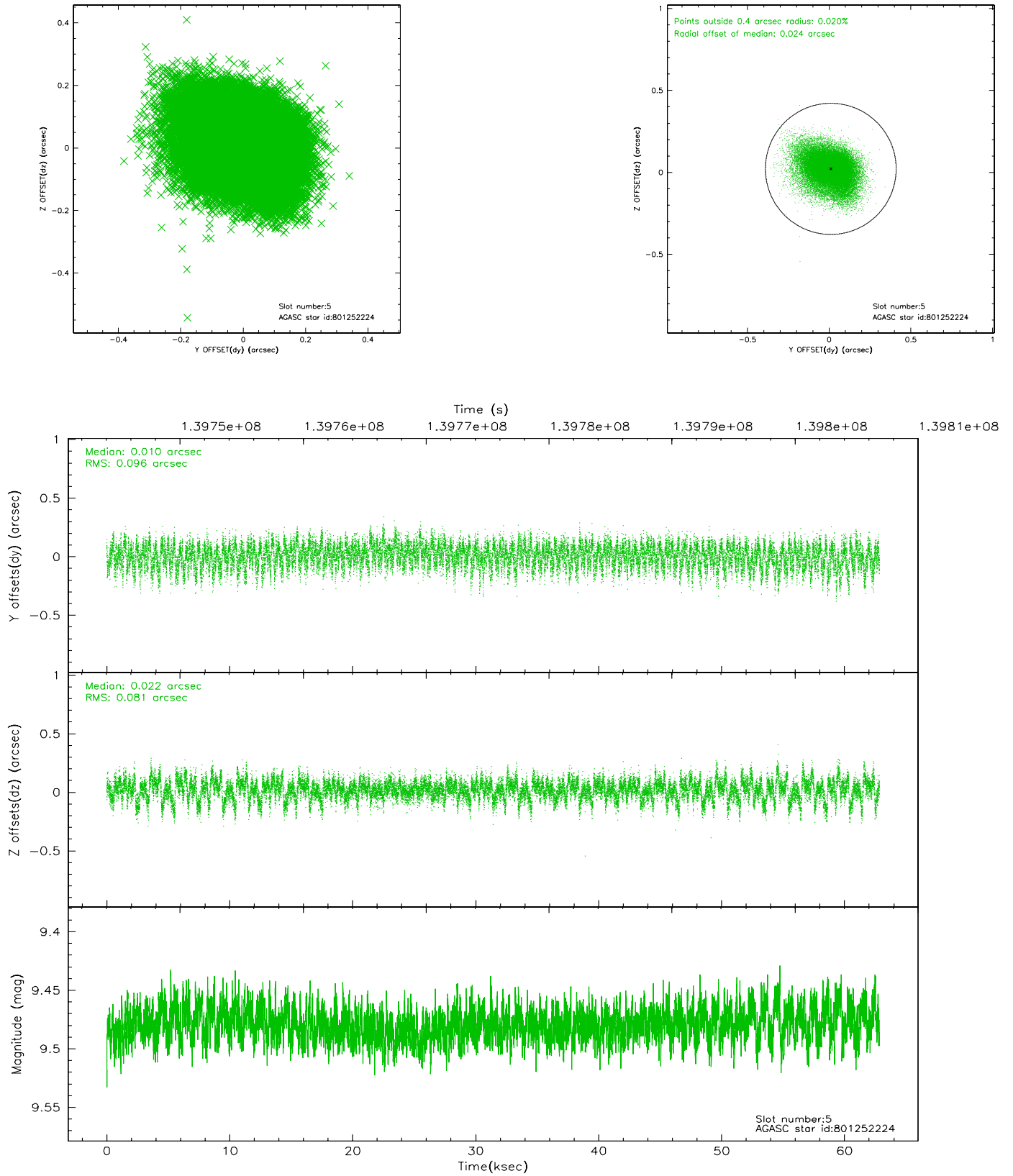
2.4.1 Slot 3



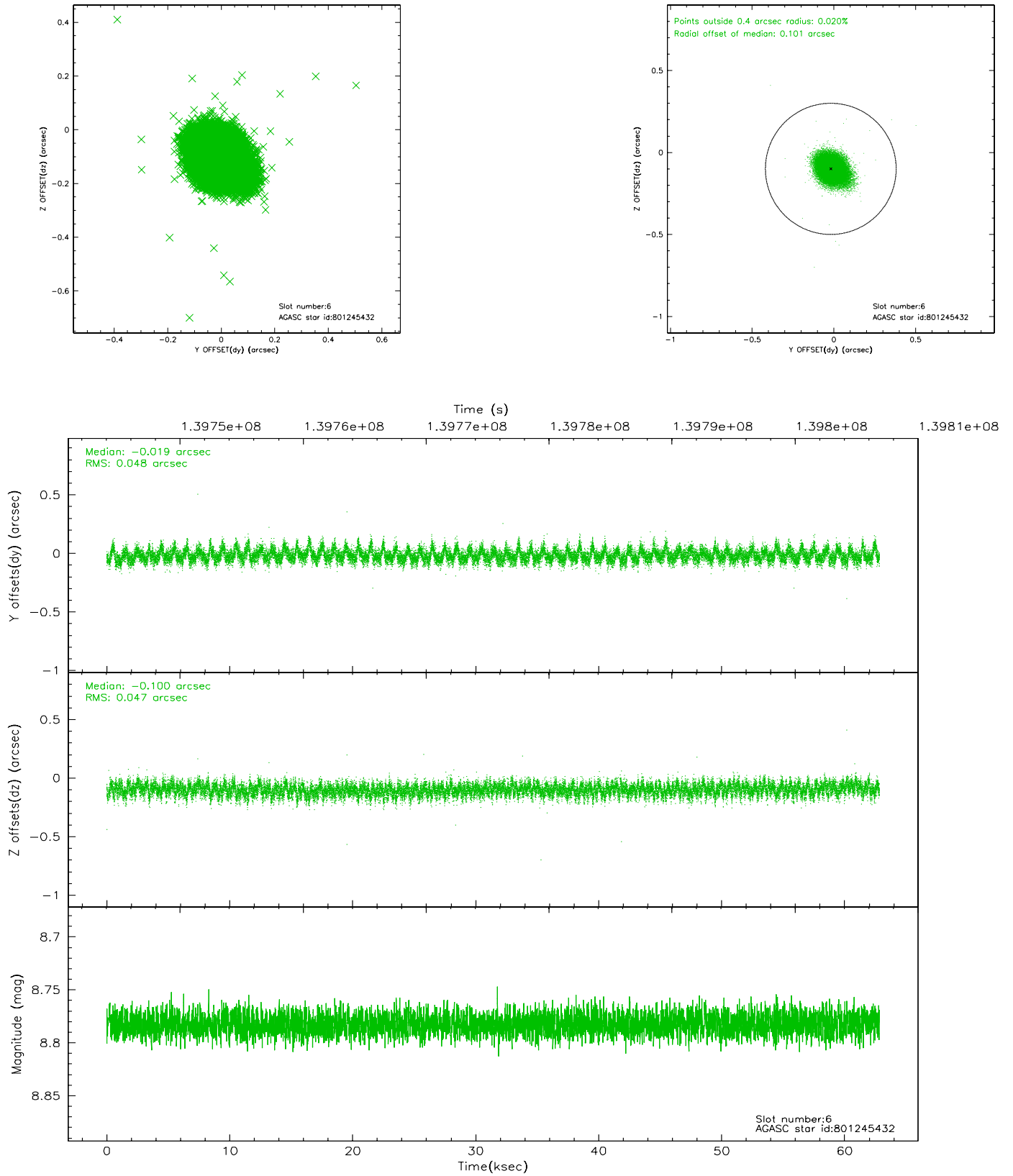
2.4.2 Slot 4



2.4.3 Slot 5

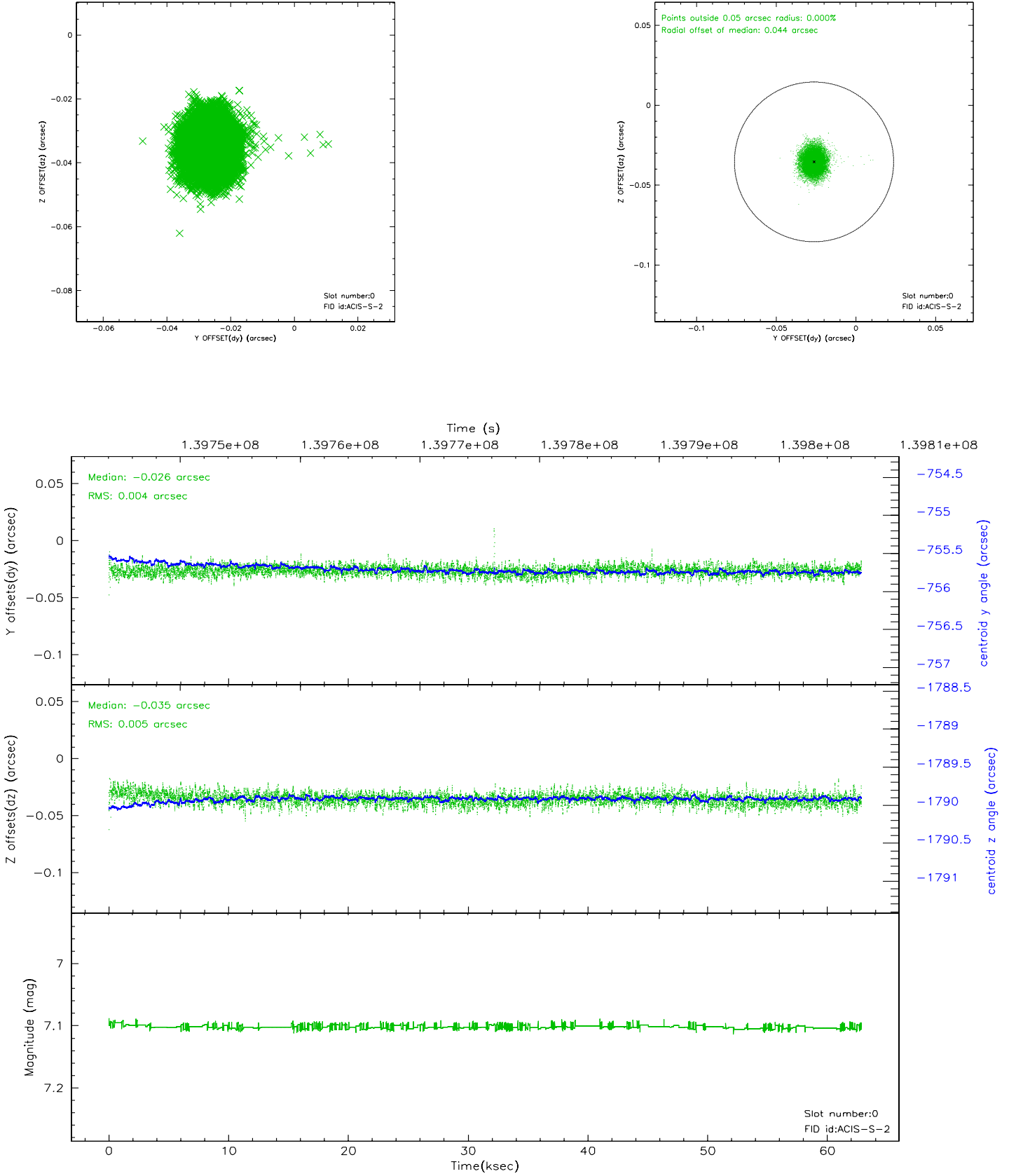


2.4.4 Slot 6

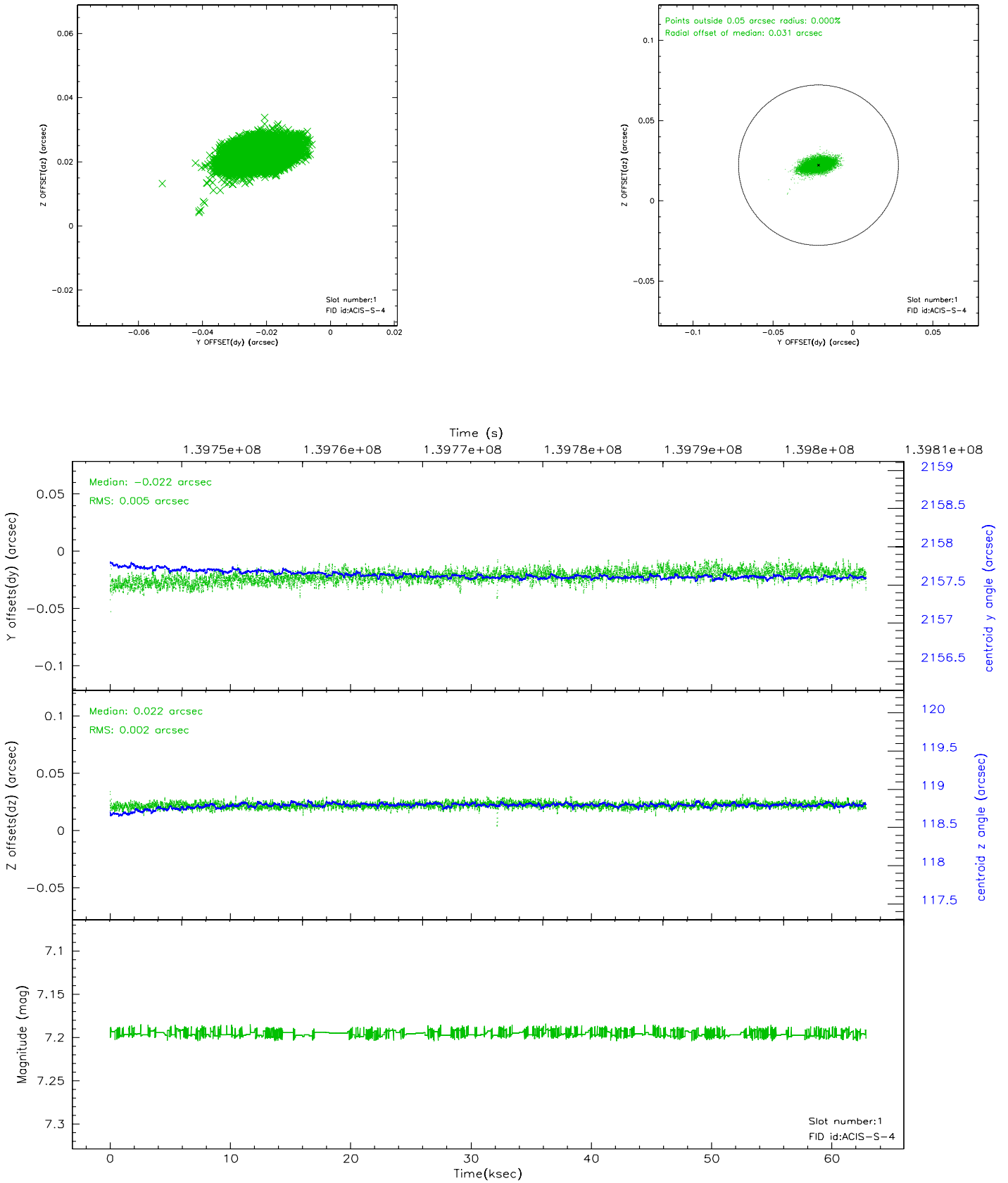


2.5 FID Slots

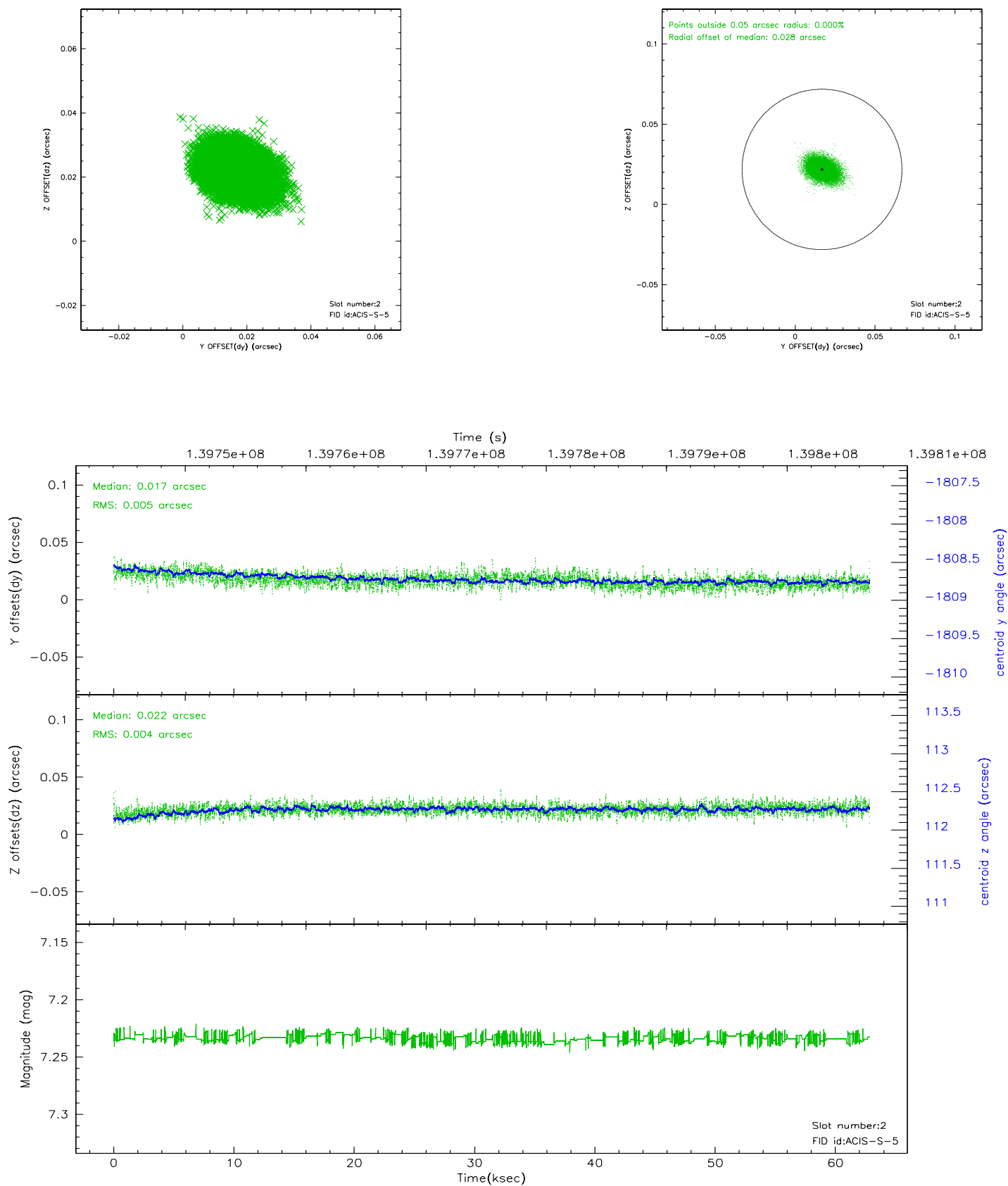
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

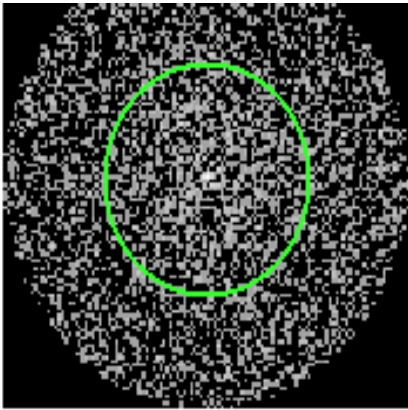


3 Gratings

3.1 HEG Arm



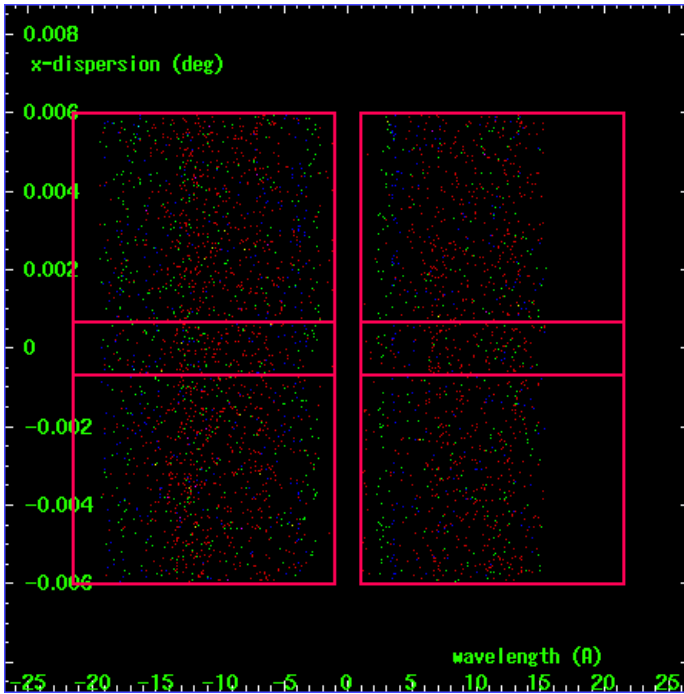
HEG Order Sort 123



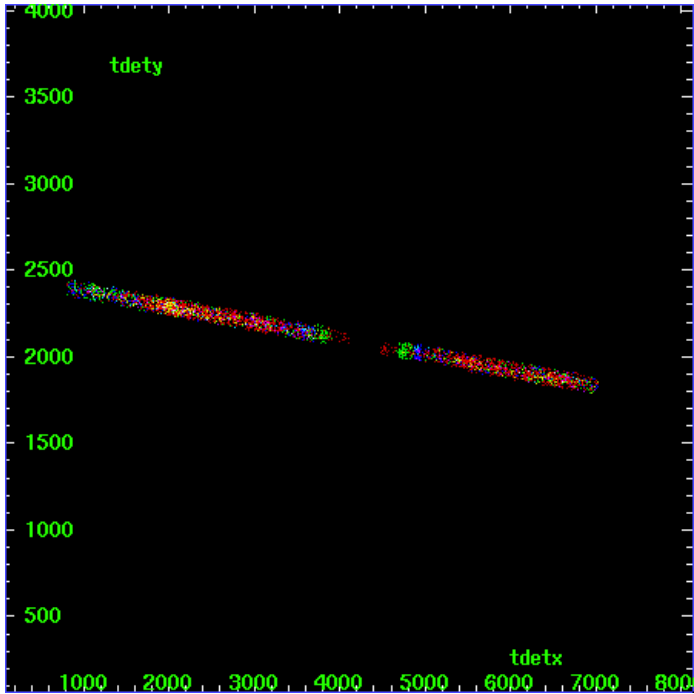
HEG Zero Order



HEG Order Sort ALL

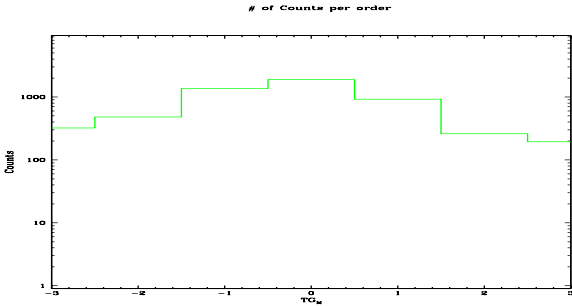


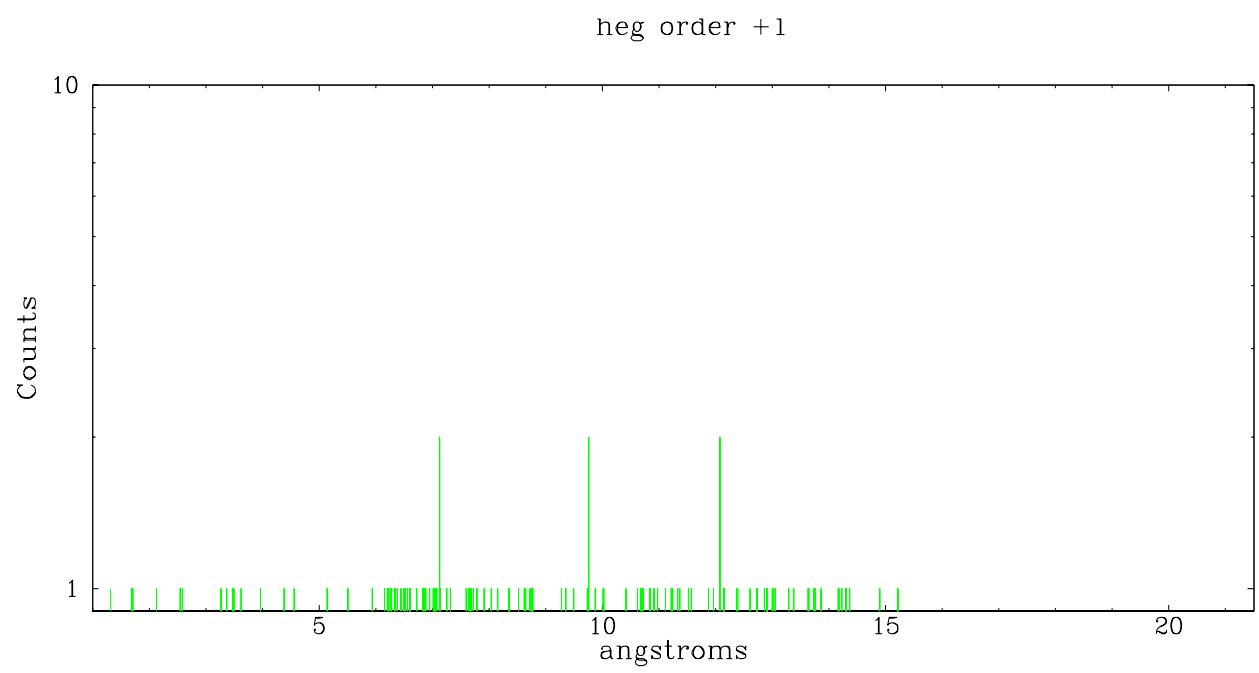
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	322	480	1356	1887	922	261	194

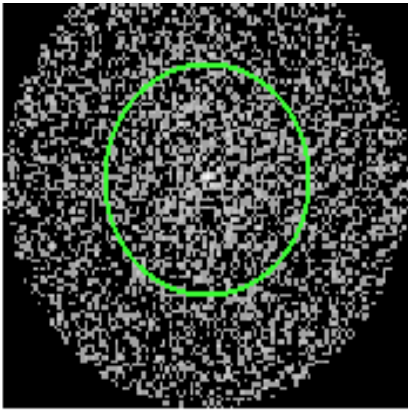




3.2 MEG Arm



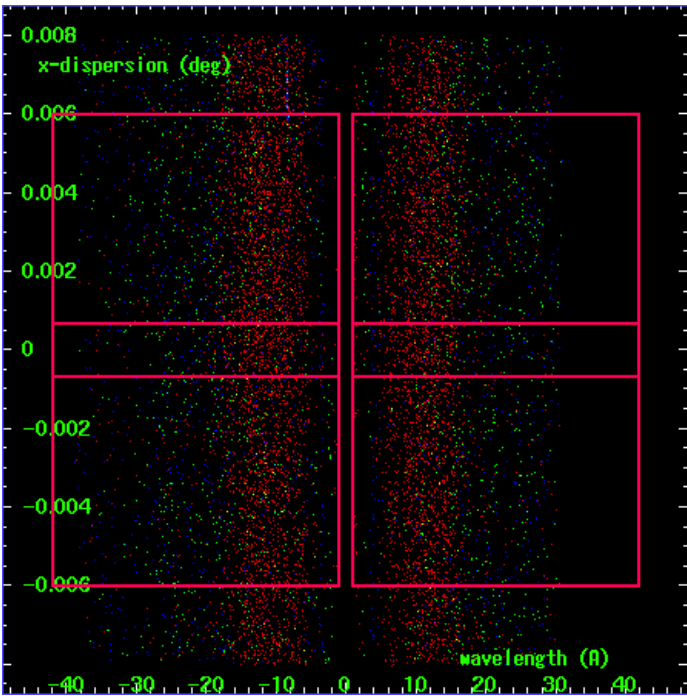
MEG Order Sort 123



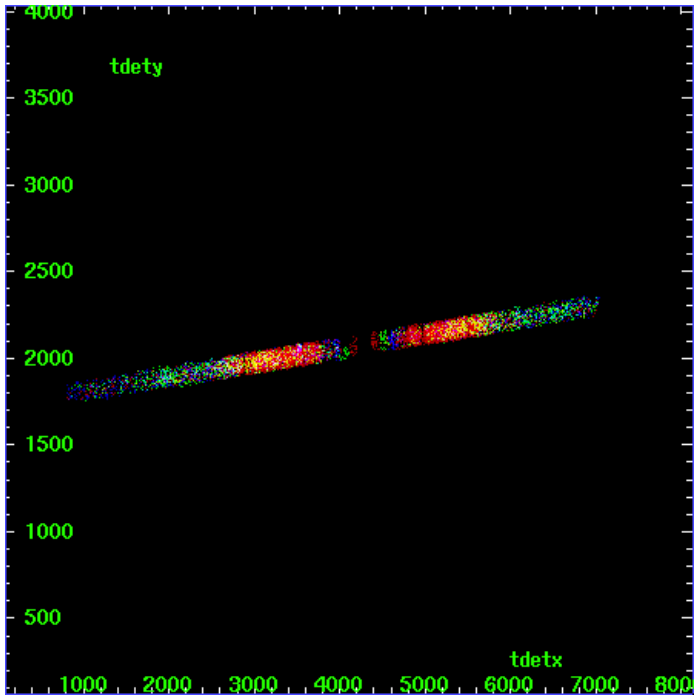
MEG Zero Order



MEG Order Sort ALL

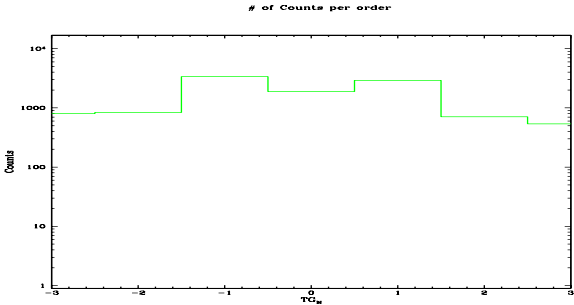


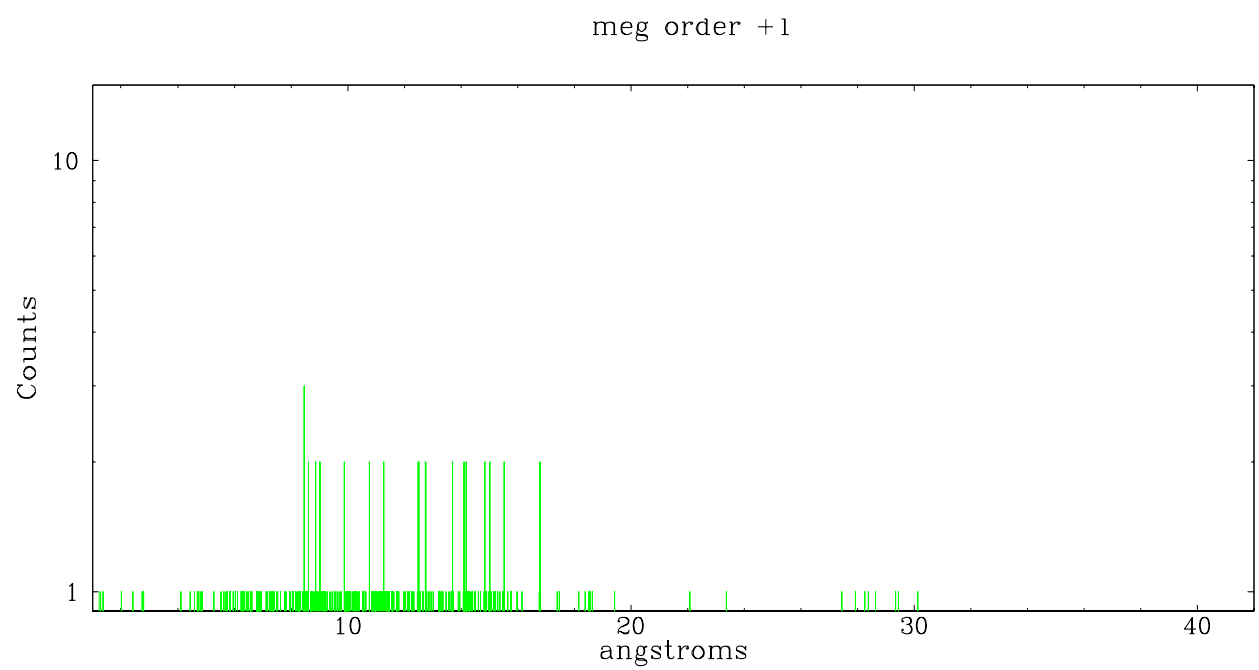
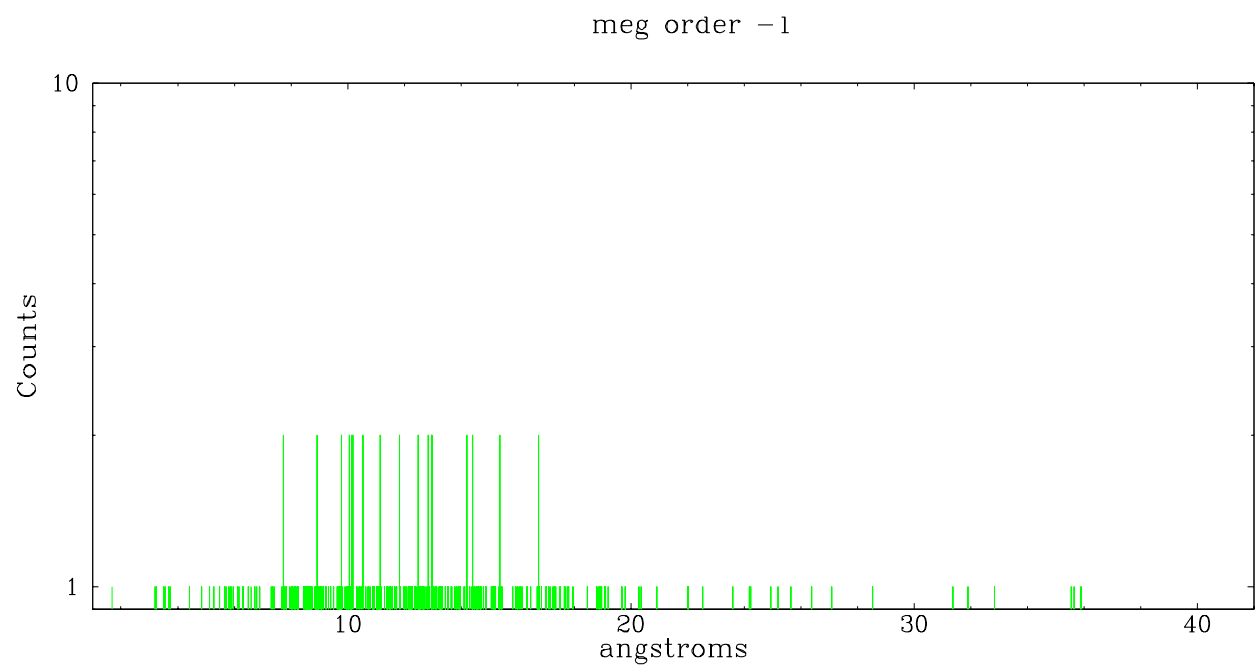
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	800	836	3366	1887	2922	707	537





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	62.118

A.2 Comments

Source is extended and standard software processing technique using the tool

tgdetect was unable to give an accurate position for the zeroth order.

Instead, zeroth order position for this observation is based on a position measurement of the target of 13h15m23.97s, -16d23m07.9s, with an approximate error of 1.25 arcsec, from a 2003 publication. The requested coordinates given by the observer are apparently outdated. Optical monitoring enabled.