

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 1093 - L2 Version 2
Chandra X-Ray Center

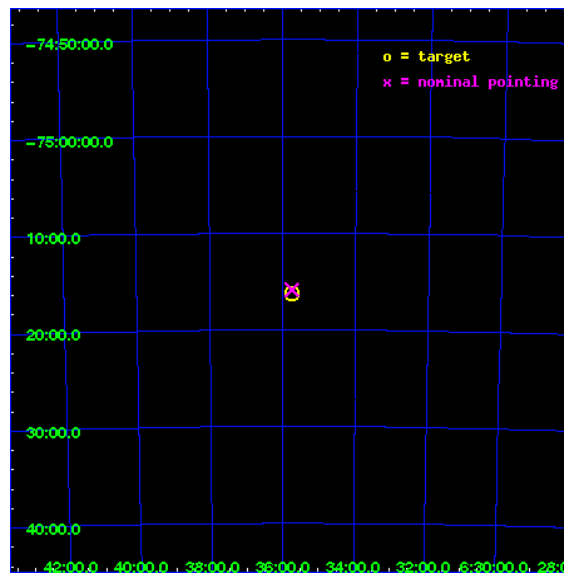
L2 Processing Date : Dec 17 2009

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1 Front

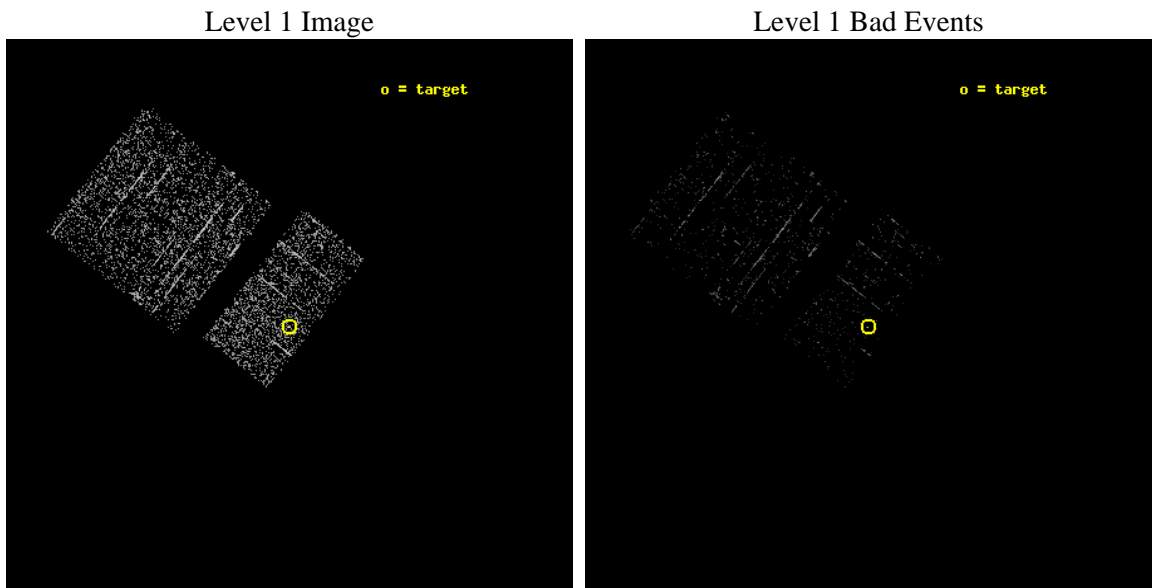
seq_num	780043	Sequence number
obs_id	1093	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	PKS0637-752	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	98.94	Observer's specified target RA
dec_targ	-75.27	Observer's specified target Dec
ra_nom	98.936534447596	Nominal RA
dec_nom	-75.264471430427	Nominal Dec
roll_nom	127.99764286373	Nominal Roll
revision	2	Processing version of data
ontime	0.0	Sum of GTIs [s]
livetime	0.0	Livetime [s]
ontime0	0.0	Sum of GTIs [s]
ontime1	0.0	Sum of GTIs [s]
ontime2	0.0	Sum of GTIs [s]
ontime3	0.0	Sum of GTIs [s]
ontime6	0.0	Sum of GTIs [s]
ontime7	0.0	Sum of GTIs [s]
l2events	0	Number of level 2 events



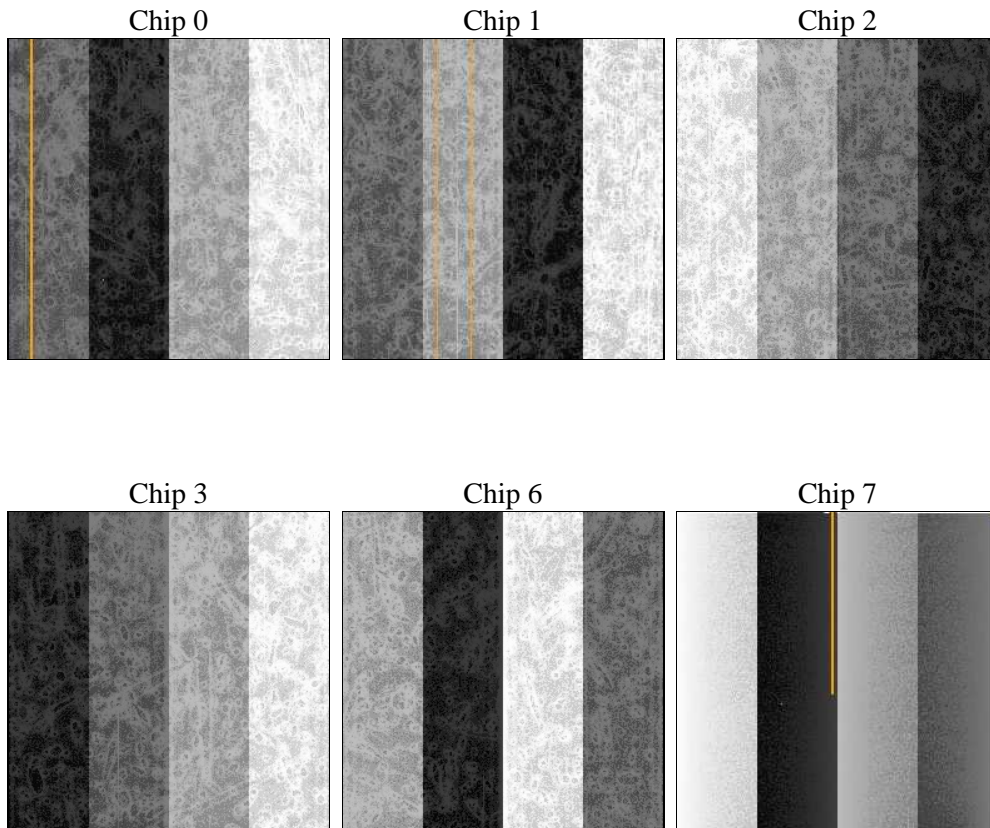
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	0.0	Sum of GTIs [s]
caldbver	4.1.4	 	ontime0	161.51828540117	Sum of GTIs [s]
date	2009-12-17T06:12:44	Date and time of file creation	ontime1	161.47724540532	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	161.43620540202	Sum of GTIs [s]
			ontime3	161.39516540617	Sum of GTIs [s]
			ontime6	161.35412540287	Sum of GTIs [s]
			ontime7	161.55932540447	Sum of GTIs [s]
			l1events	9184	Number of level 1 events

2.1.4 Events

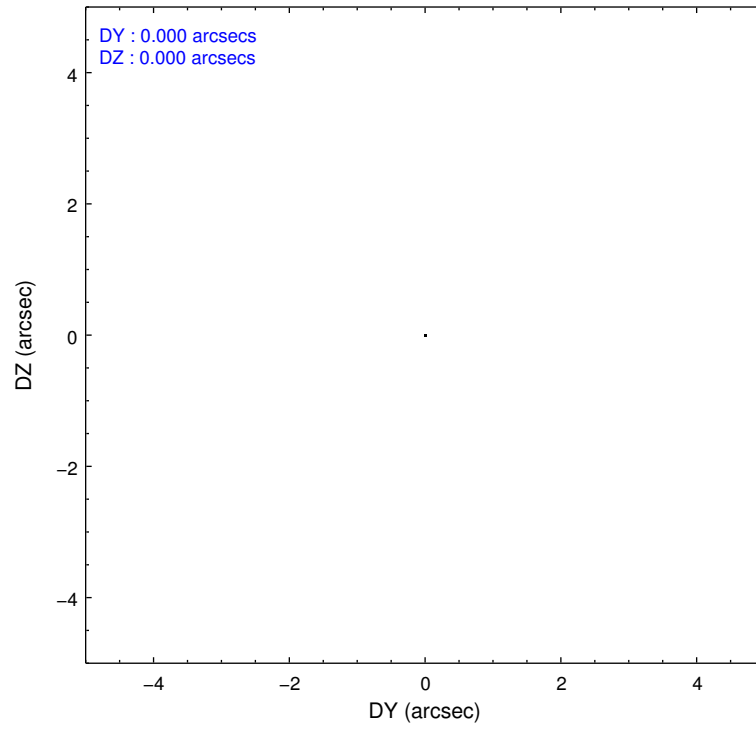
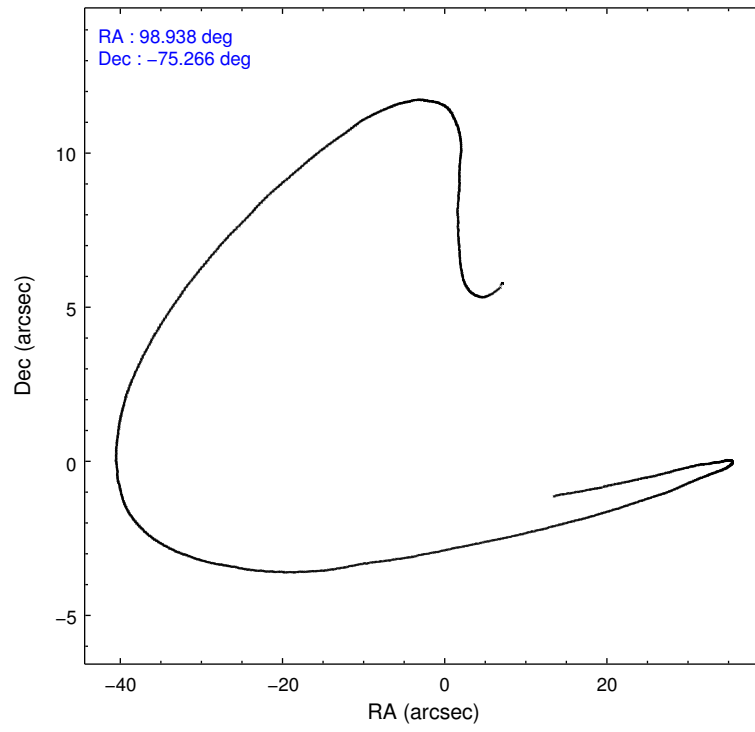
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	1340	1270	1699	1593	1496	1786
rejected events	1181	1142	1552	1451	1338	999
rejected %	88%	89%	91%	91%	89%	55%

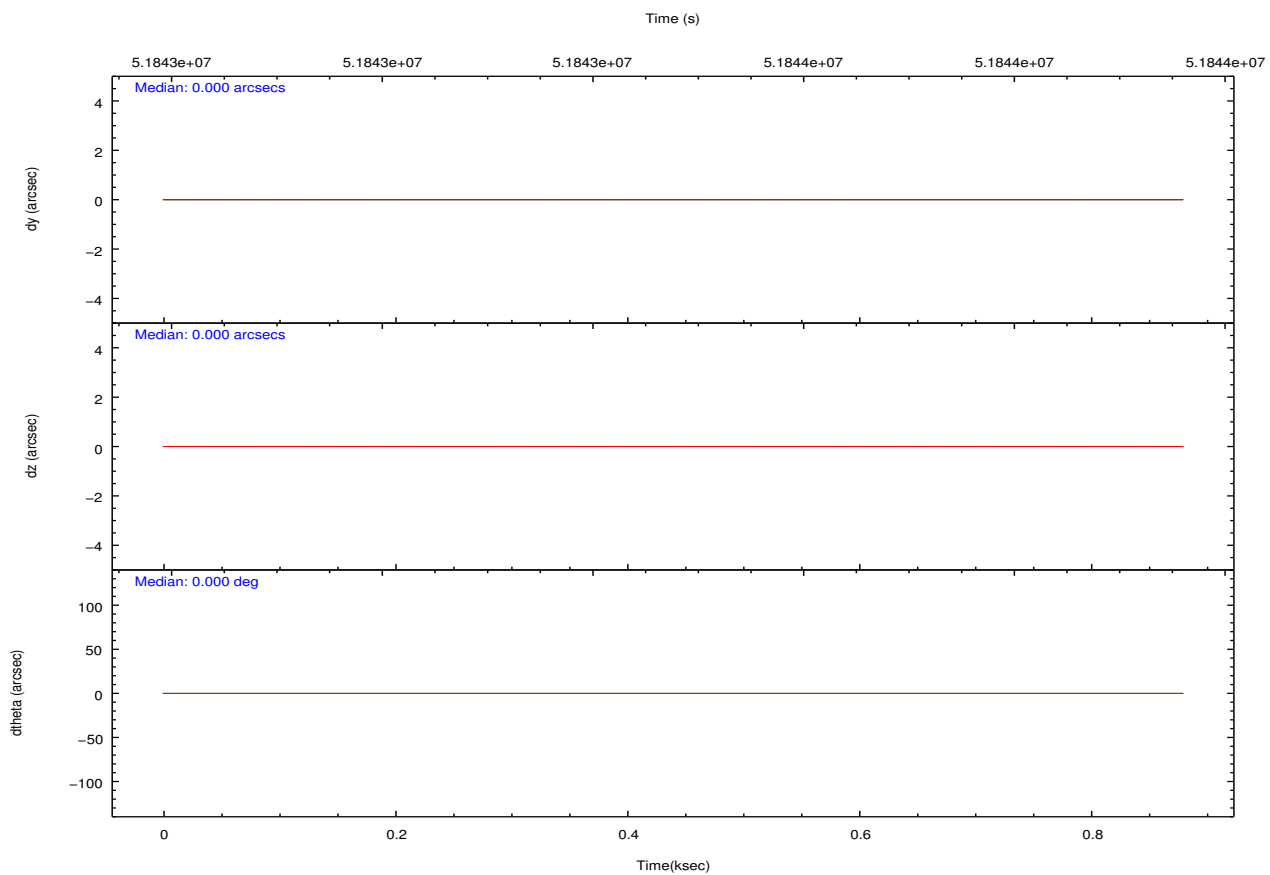
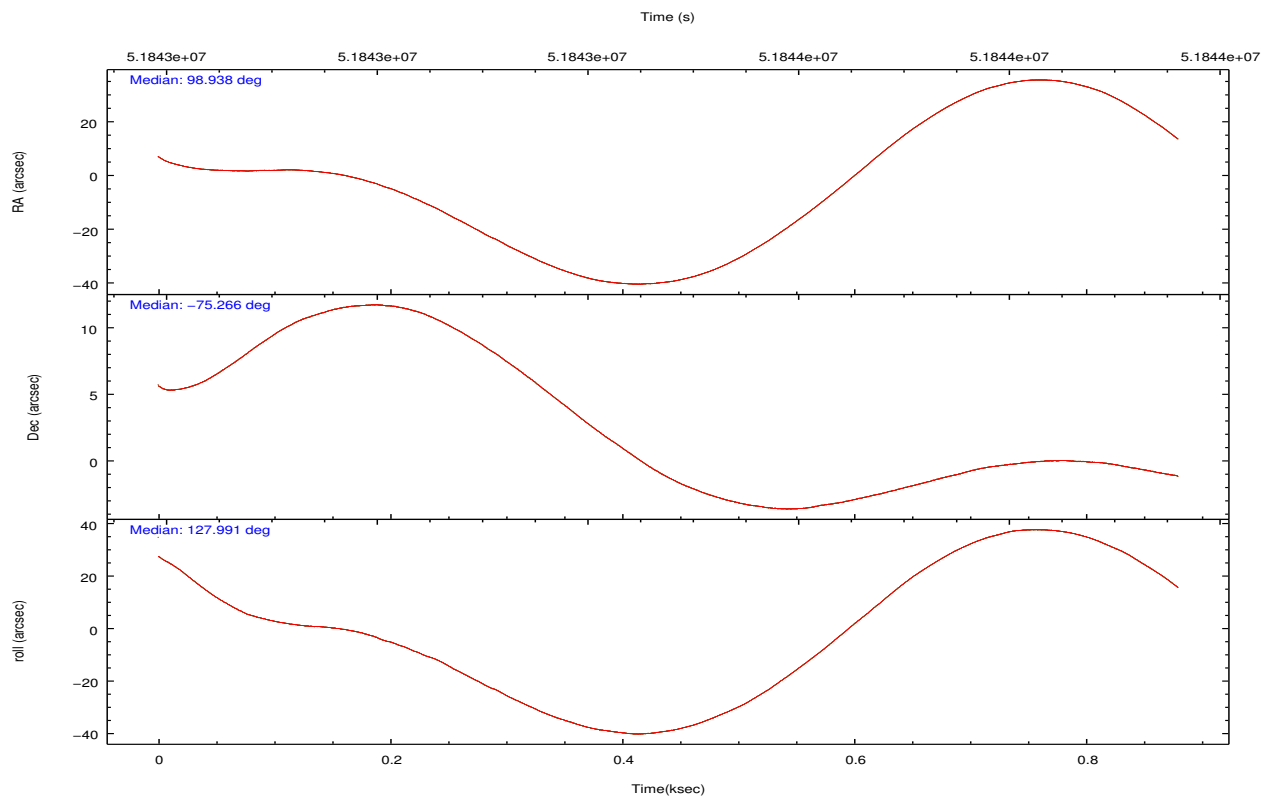
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	68	48	56	58	59	86
	5%	3%	3%	3%	3%	4%
grade 1 events	0	0	0	1	0	1
	0%	0%	0%	0%	0%	0%
grade 2 events	36	21	23	22	40	165
	2%	1%	1%	1%	2%	9%
grade 3 events	12	18	20	16	12	63
	0%	1%	1%	1%	0%	3%
grade 4 events	18	17	20	17	11	55
	1%	1%	1%	1%	0%	3%
grade 5 events	47	46	29	33	42	102
	3%	3%	1%	2%	2%	5%
grade 6 events	25	24	28	29	36	418
	1%	1%	1%	1%	2%	23%
grade 7 events	1134	1096	1523	1417	1296	896
	84%	86%	89%	88%	86%	50%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	99.035330	98.93653444759556	Subarray requested	NONE	NONE
Pointing Dec	-75.275636	-75.26447143042668	Alternating exposures requested	N	N
Pointing Roll	127.936339	127.9976428637294	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.865731118321573			
SIM defocus (mm)	0	-0.1814636570216768			
SIM translation stage pos (mm)	-184.282523	-184.2892543431418			
SIM translation stage offset (mm)	-5.85	-5.843268239866035			
Observation start time	51843528.184000	51842707.887575			
Observation start date	1999-08-24T00:57:44	1999-08-24T00:45:07			
Observation end time	51844528.184000	51843925.075119			
Observation end date	1999-08-24T01:14:24	1999-08-24T01:05:25			
Read mode	TIMED	TIMED			

2.3 Aspect



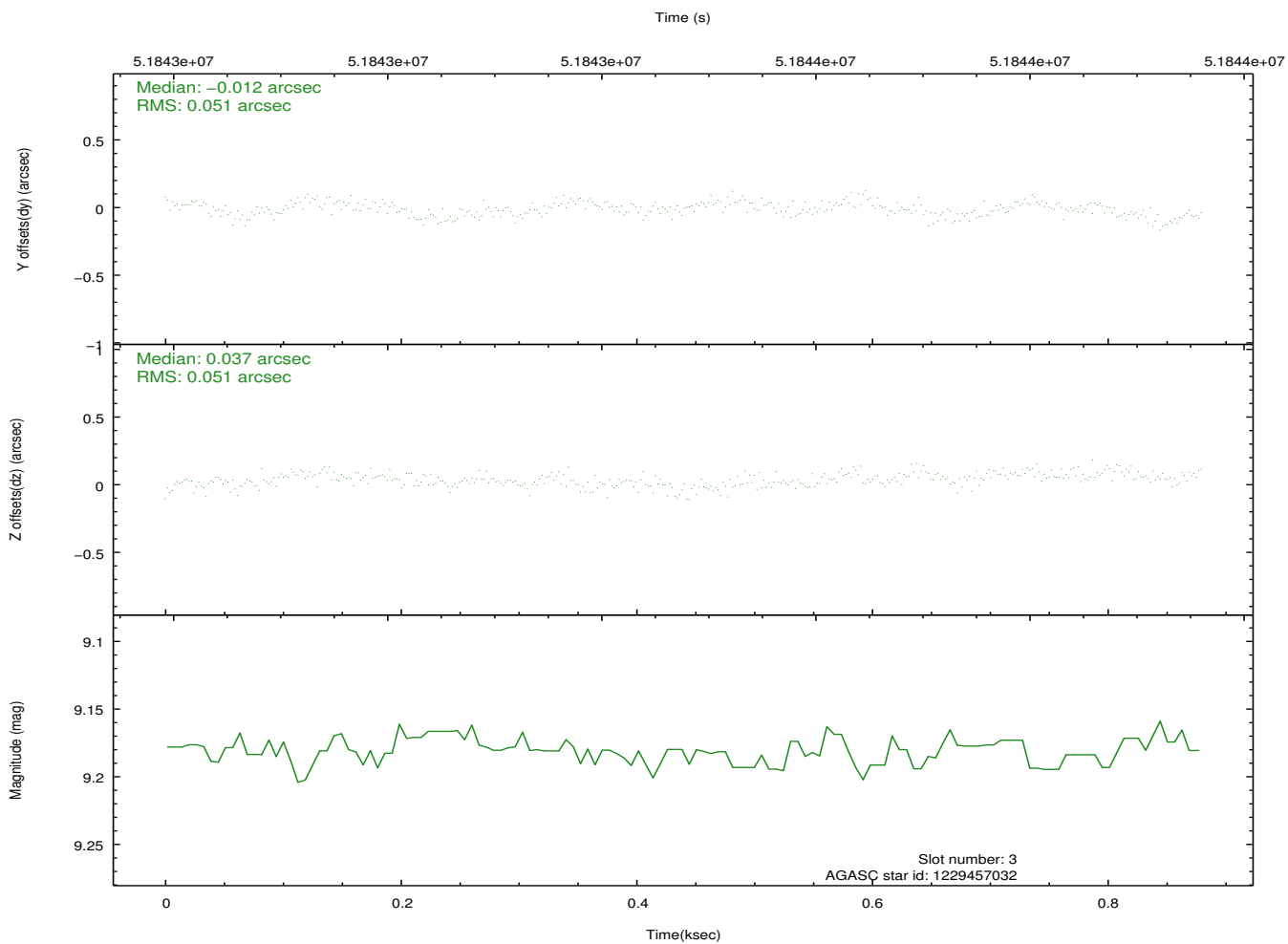
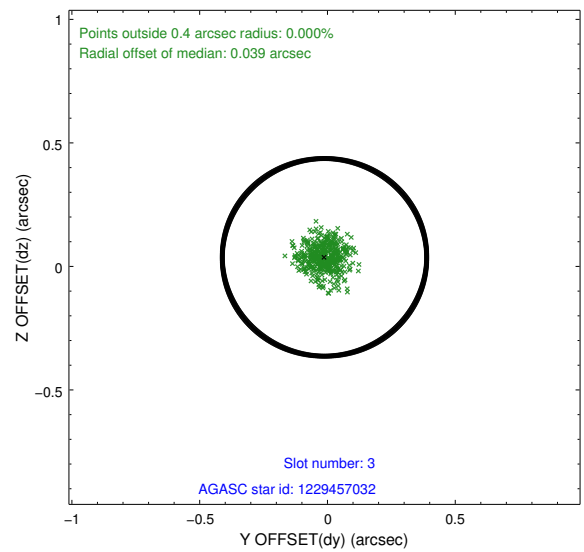
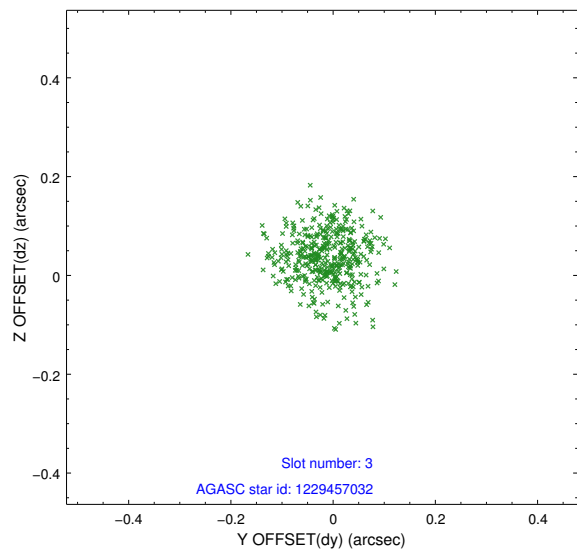


Slot Statistics

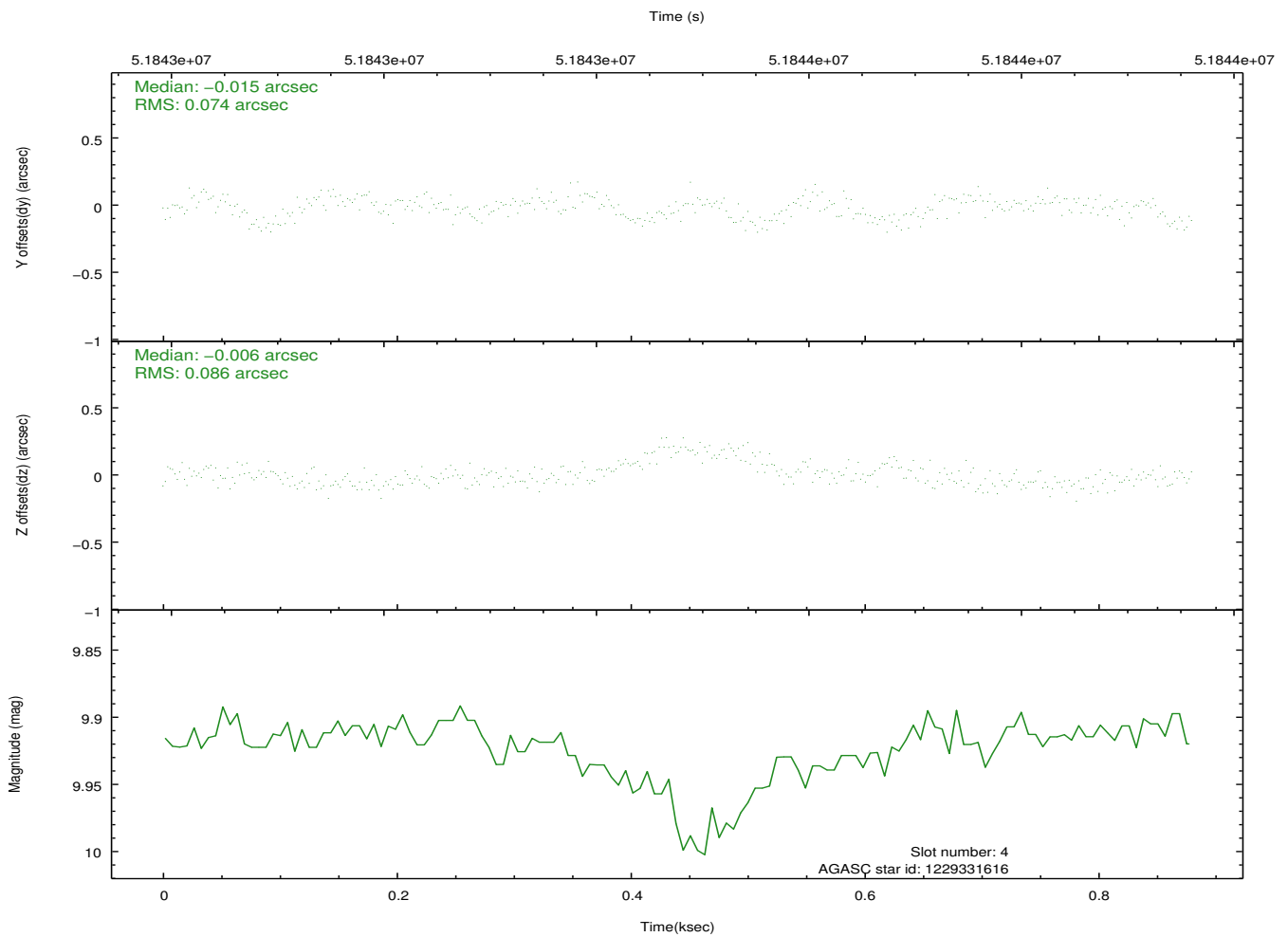
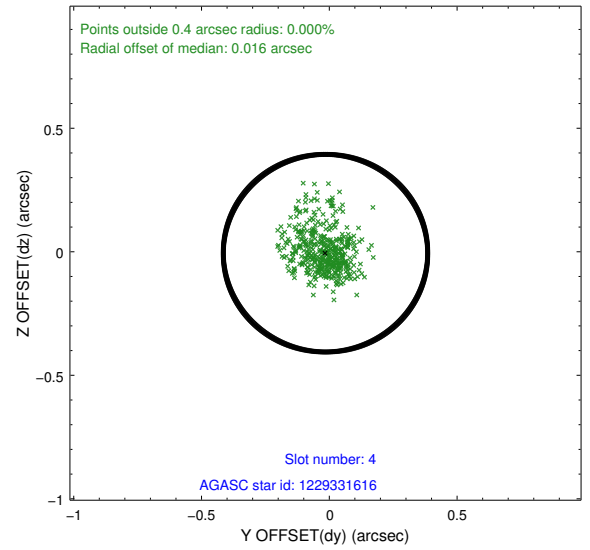
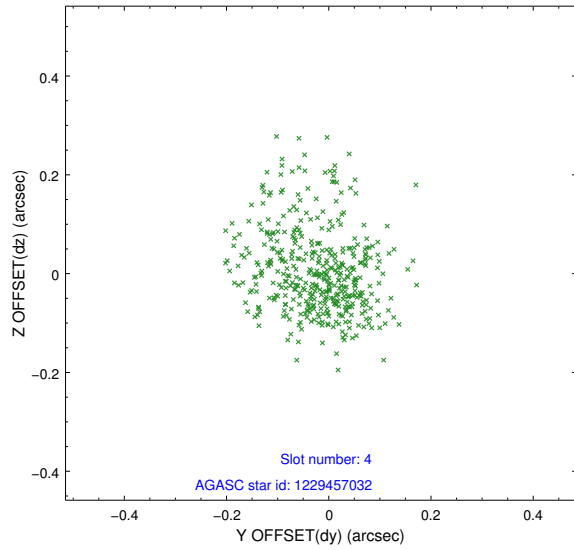
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
1	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
2	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	1229457032	9.18	430	-0.012	0.037	0.080	0.124	100.958417	-75.581890	-1950.78	-663.36
4	GUIDE	1229331616	9.92	430	-0.015	-0.006	0.117	0.207	96.182998	-75.347362	1338.90	2244.87
5	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	1204425200	9.81	429	0.029	-0.042	0.125	0.208	100.052994	-74.556368	1439.74	-2349.65
7	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

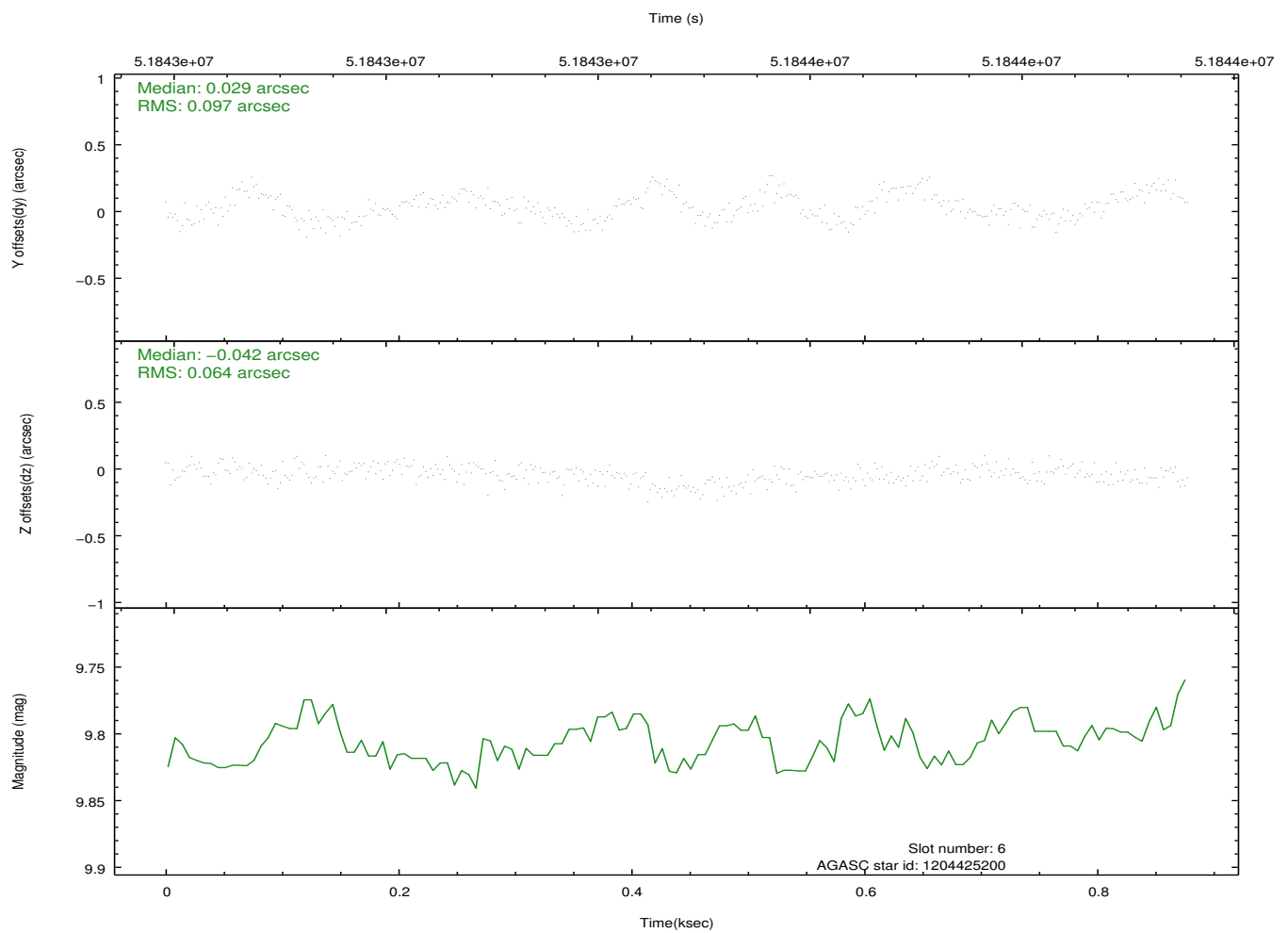
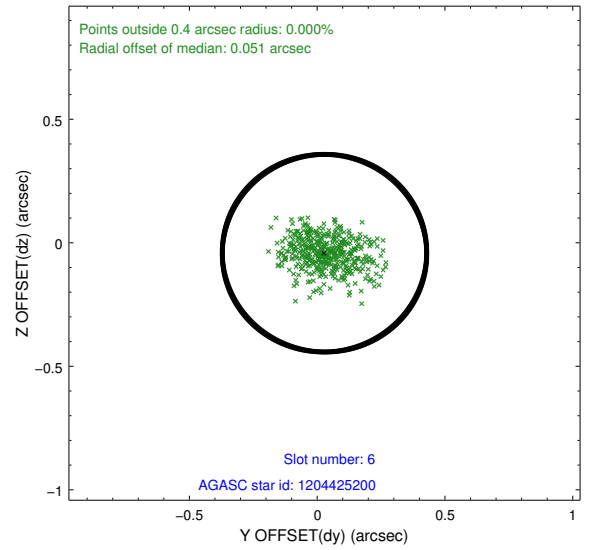
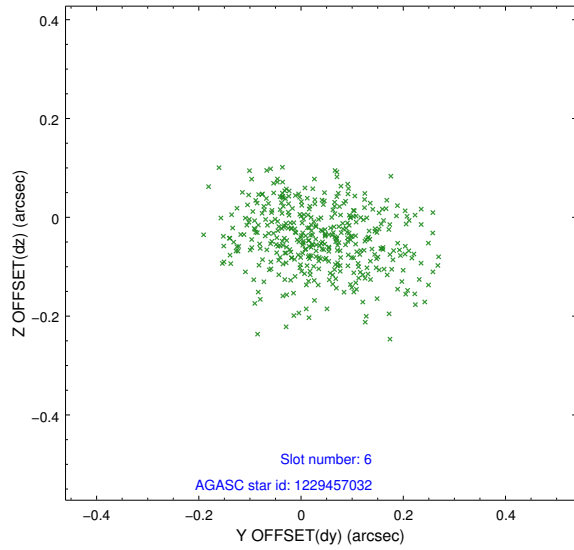
2.4.1 Slot 3



2.4.2 Slot 4



2.4.3 Slot 6



2.5 FID Slots

3 Point Sources

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.07.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1

A.2 Comments

No fid lights were acquired for this observation due to an error in offline system software which calculates the nominal positions of the FID lights for off-nominal aim points (SIM Z translations away from 4 nominal instrument aim points). The loss of all fid lights means there is no GTI and level 2 processing produces no valid events.

Also, only 3 of 5 guide stars were acquired.

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Charge time for this ObsId remains at original value of 1.0 ks, although with the current processing the charge time would have been 0 ksec.

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The focal plane temperature is approximately -100 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.