

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16508 - L2 Version 2
Chandra X-Ray Center

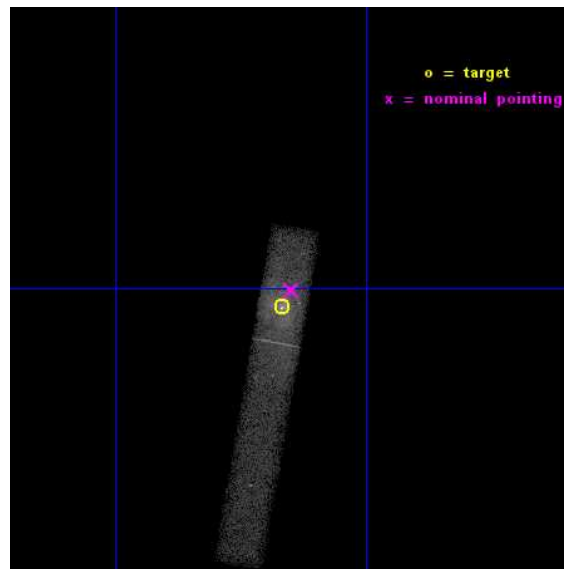
L2 Processing Date : Dec 10 2014

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1 Front

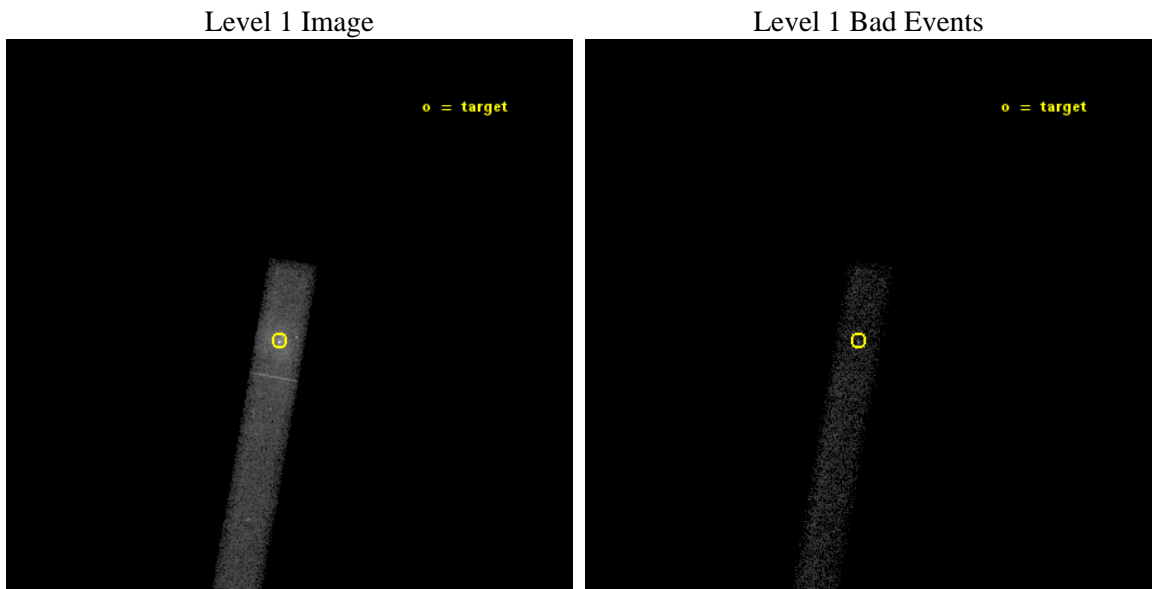
seq_num	703024	Sequence number
obs_id	16508	Observation id
title	Joint Chandra/XMM/EVLA Monitoring of the Gas Cloud G2 as it Encounters Sgr A*	Proposal title
observer	Dr. Daryl Haggard	Principal investigator
object	Sgr A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.00775	Observer's specified target Dec [deg]
ra_nom	266.41231591367	Nominal RA [deg]
dec_nom	-29.000856388301	Nominal Dec [deg]
roll_nom	100.15452149893	Nominal Roll [deg]
revision	2	Processing version of data
ontime	47869.197146773	Sum of GTIs [s]
livetime	43414.835068723	Livetime [s]
ontime7	47869.197146773	Sum of GTIs [s]
l2events	54291	Number of level 2 events



2 OBI

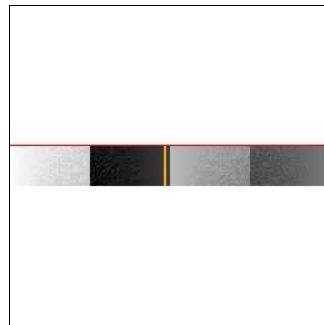
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47800.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	47869.197146773	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	47869.197146773	Sum of GTIs [s]
date	2014-12-10T09:11:24	Date and time of file creation	l1events	75504	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

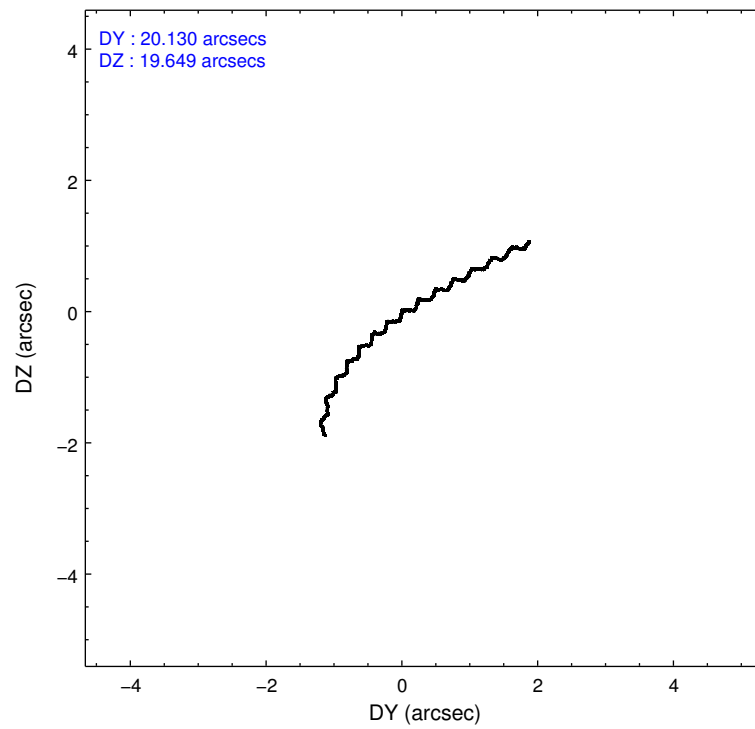
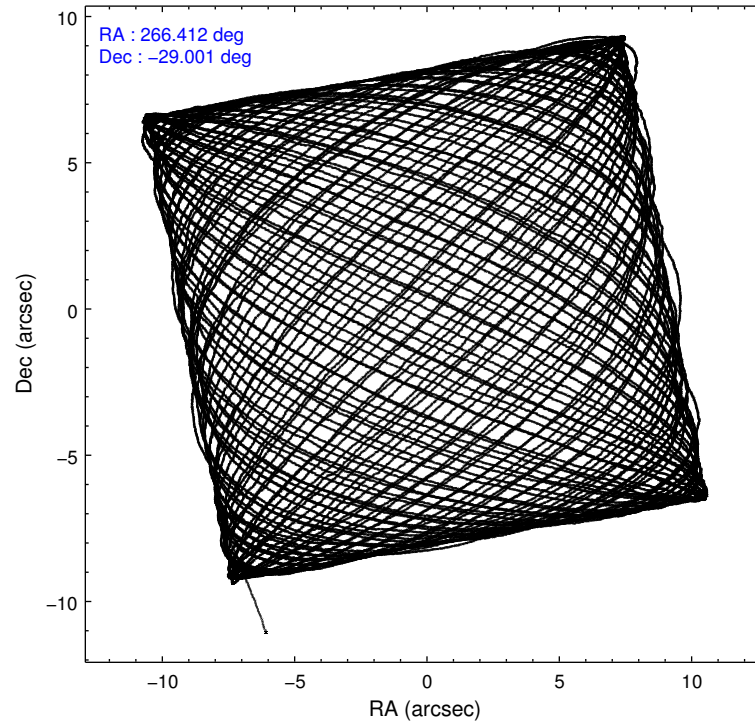
	ccd 7
level 1 events	75504
rejected events	19936
rejected %	26%

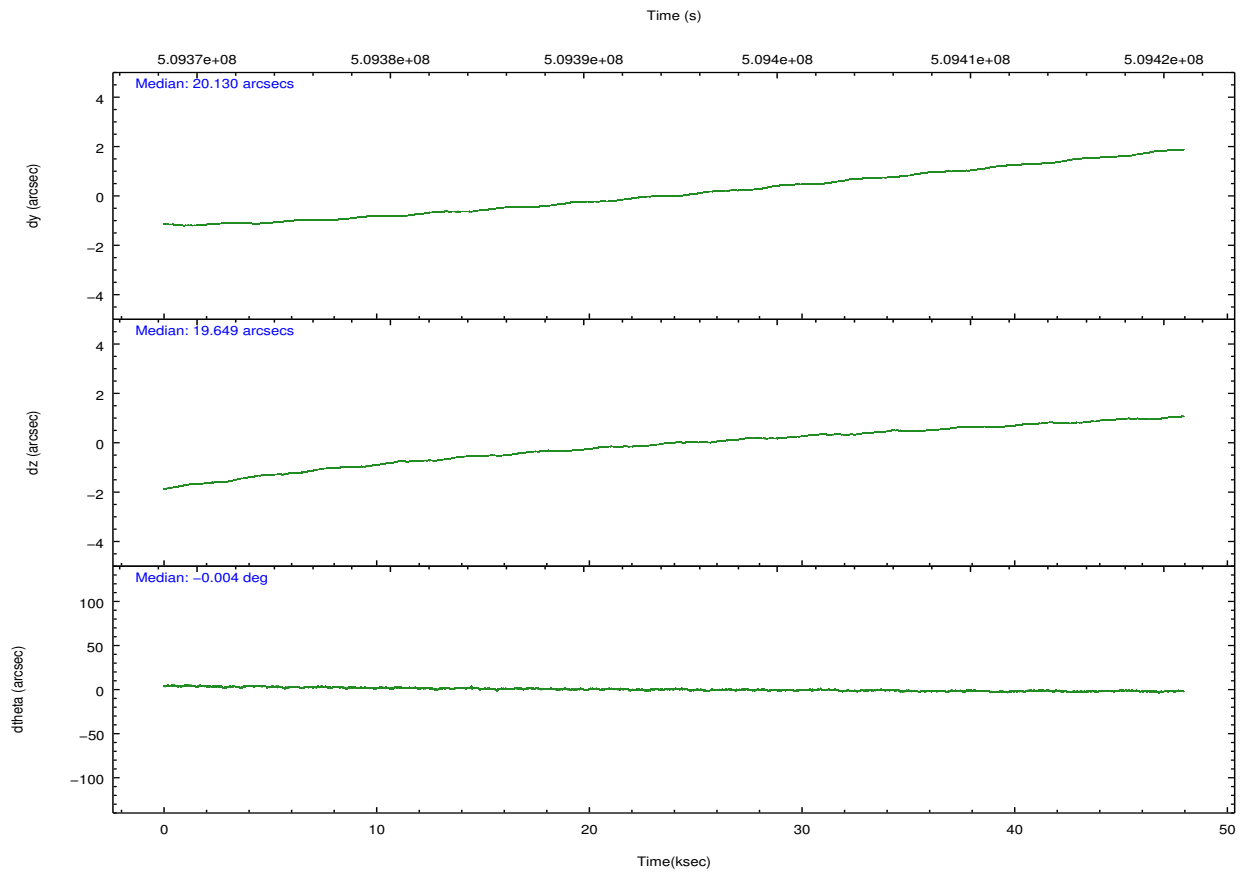
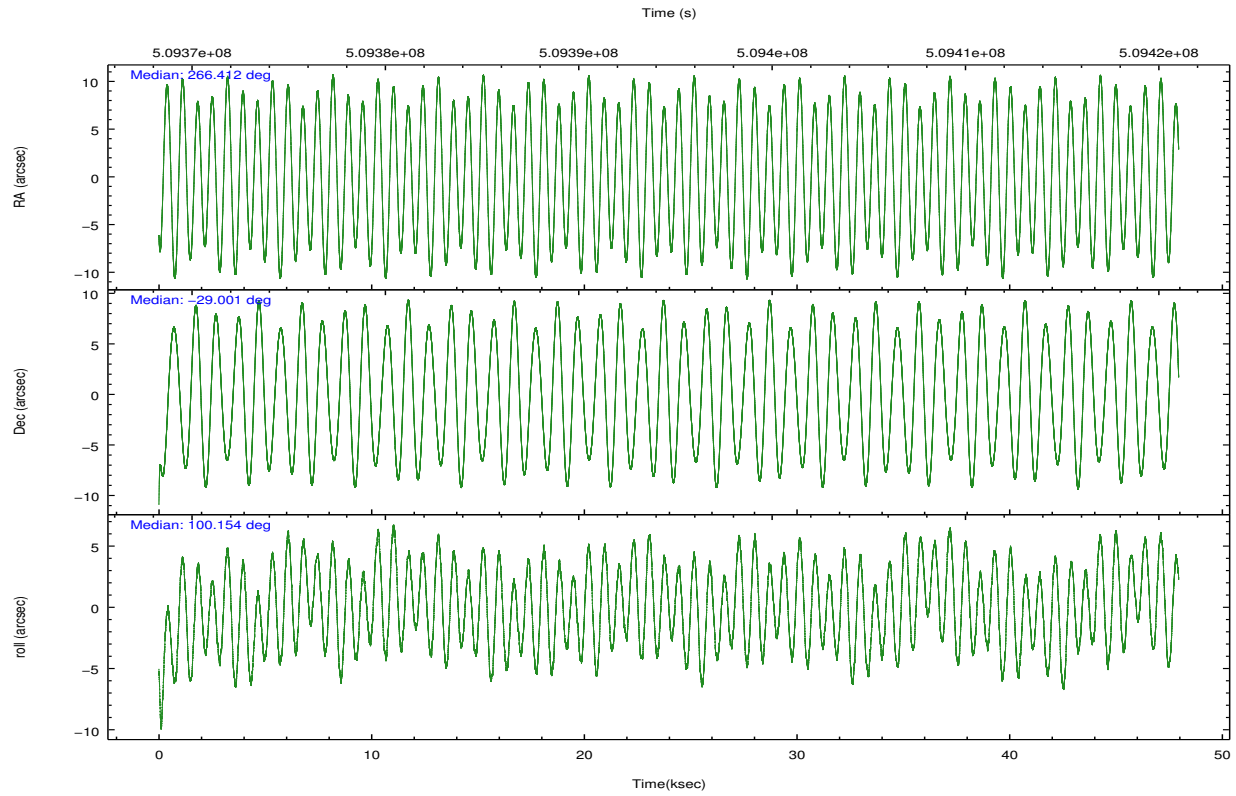
	ccd 7
grade 0 events	9305
	12%
grade 1 events	78
	0%
grade 2 events	12490
	16%
grade 3 events	6330
	8%
grade 4 events	6198
	8%
grade 5 events	4343
	5%
grade 6 events	21245
	28%
grade 7 events	15515
	20%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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
[deg] Pointing RA	266.432798	266.4123159136687	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.021512	-29.00085638830113	Subarray start row	449	449
[deg] Pointing Roll	100.007830	100.1545214989259	Subarray row count	128	128
[s] Window start time (MET)	507600067.184000	507600067.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	510019207.184000	510019207.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	509370833.184000	509369868.47611			
Observation start date	2014-02-21T11:52:46	2014-02-21T11:37:48			
[s] Observation end time (MET)	509418633.184000	509419555.35385			
Observation end date	2014-02-22T01:09:26	2014-02-22T01:25:55			
Read mode	TIMED	TIMED			

2.3 Aspect





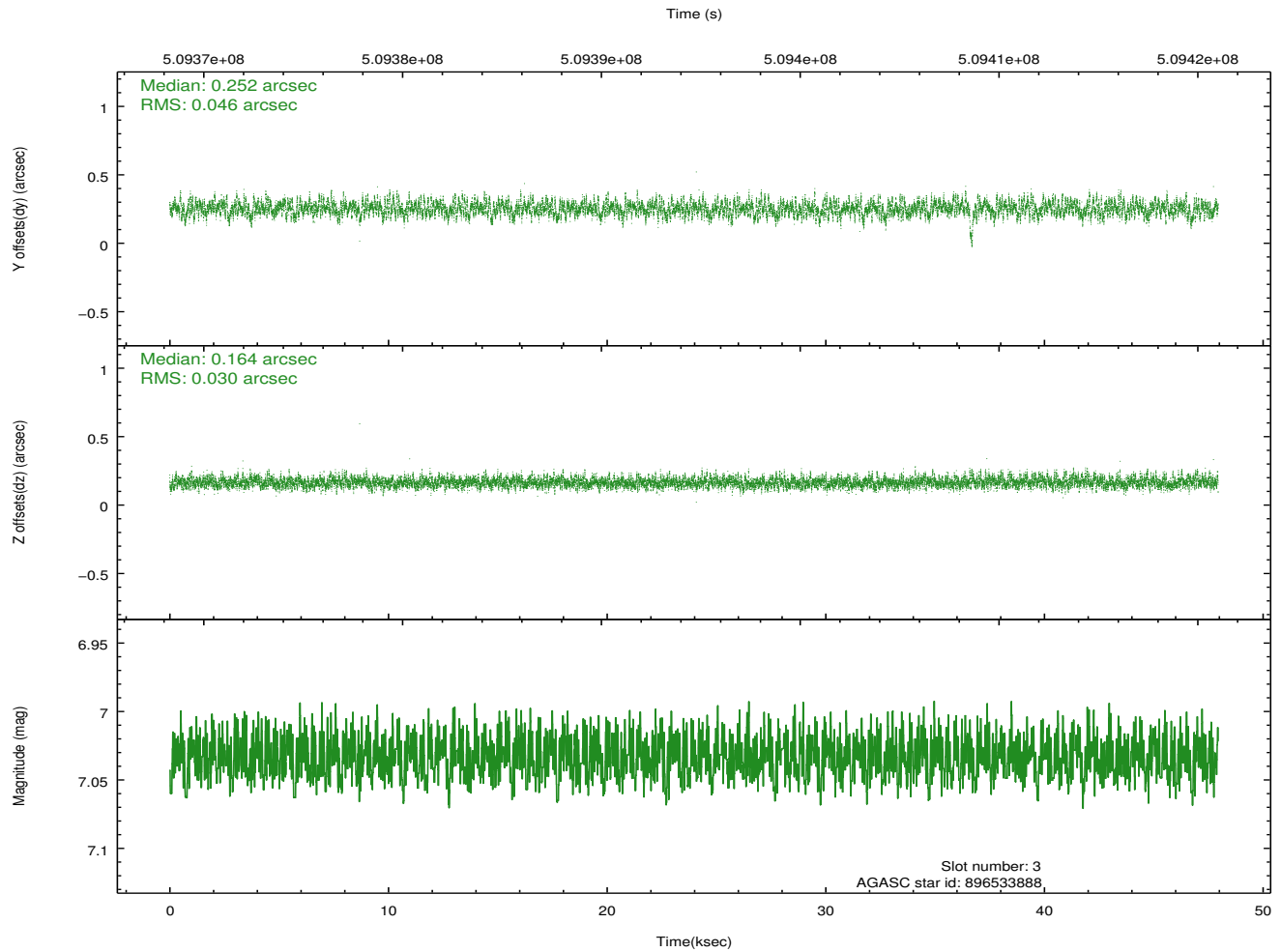
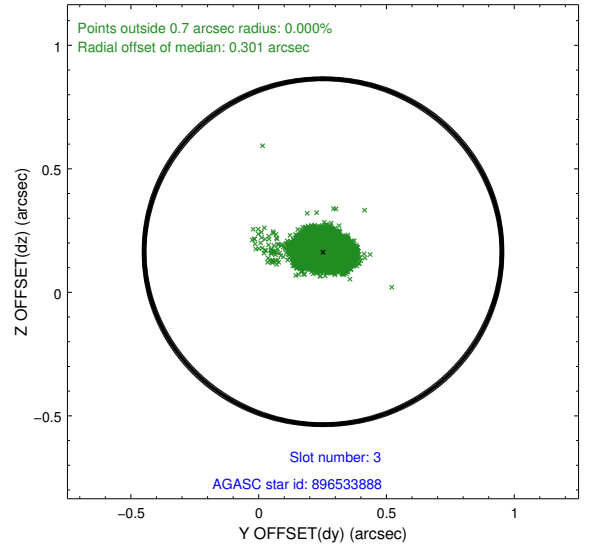
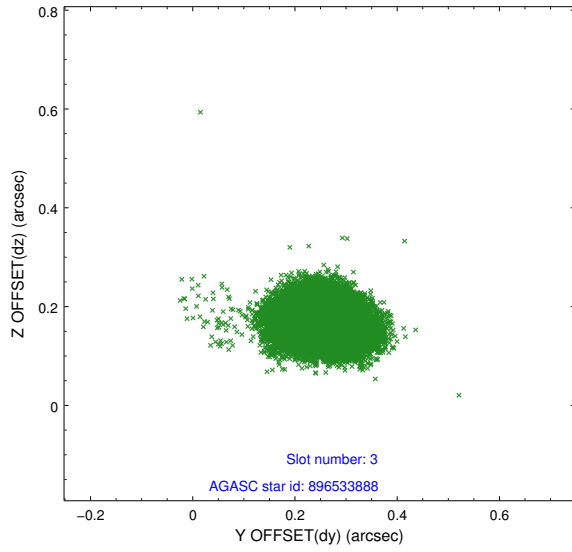
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	11696	-0.124	-0.024	0.022	0.032	0.000000	0.000000	-773.48	-1740.98
1	FID		ACIS-S-4	7.05	11696	0.244	0.066	0.015	0.026	0.000000	0.000000	2140.16	167.61
2	FID		ACIS-S-5	7.07	11696	-0.148	-0.037	0.025	0.044	0.000000	0.000000	-1826.37	161.16
3	GUIDE	used	896533888	7.03	23392	0.252	0.164	0.058	0.096	266.666434	-29.392757	-1443.93	-488.98
4	GUIDE	used	896534664	8.19	23319	-0.720	0.129	0.075	0.120	266.405570	-28.407461	2191.20	-298.96
5	GUIDE	used	896537176	8.02	23390	-0.087	0.010	0.062	0.099	266.498272	-28.678259	1180.96	-418.21
6	GUIDE	used	896540808	7.50	23391	0.133	-0.500	0.059	0.097	265.985401	-29.308604	-776.18	1562.82
7	GUIDE	used	896541360	7.72	23390	0.420	0.193	0.071	0.111	266.684478	-29.453744	-1669.87	-505.99

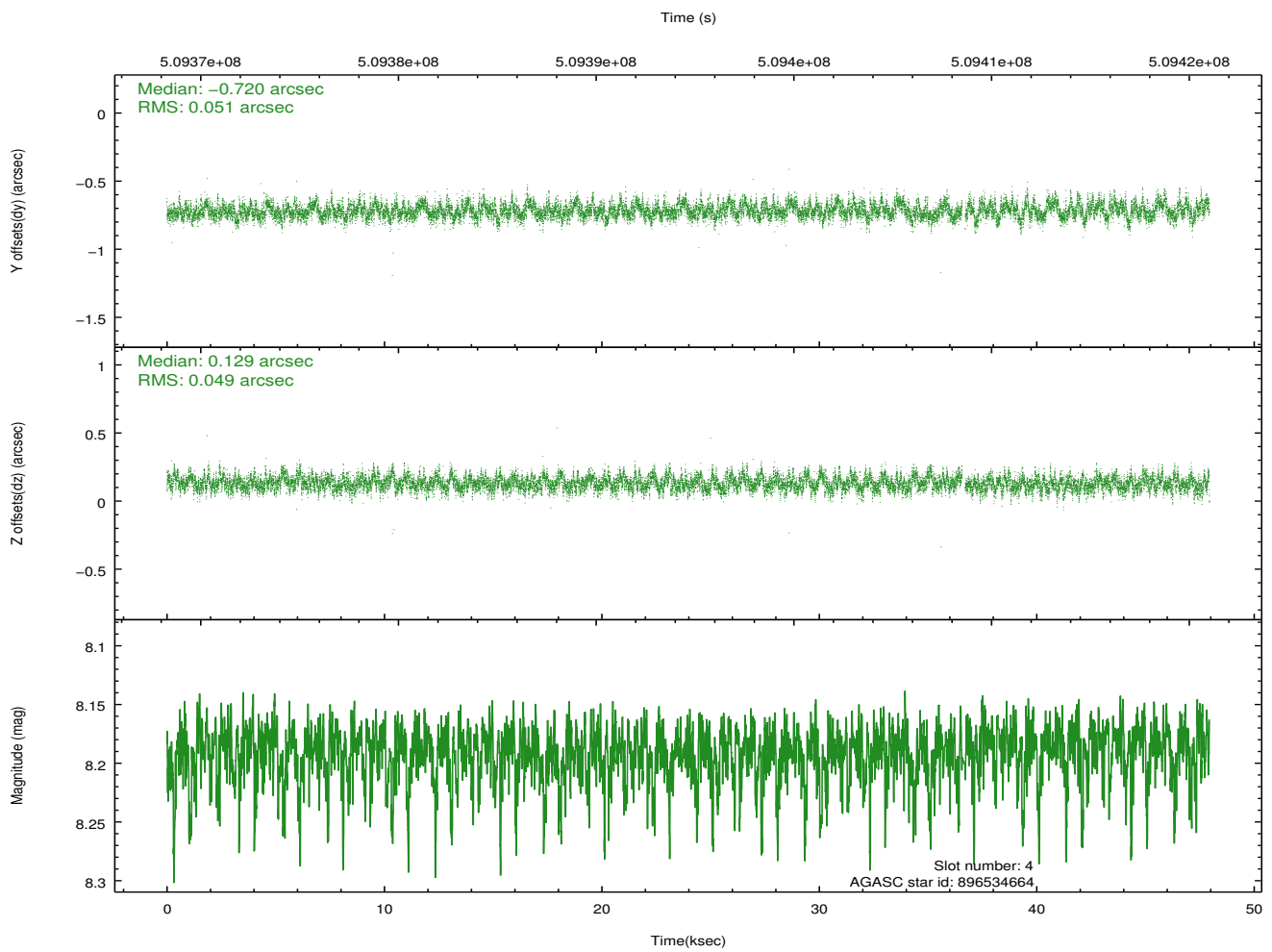
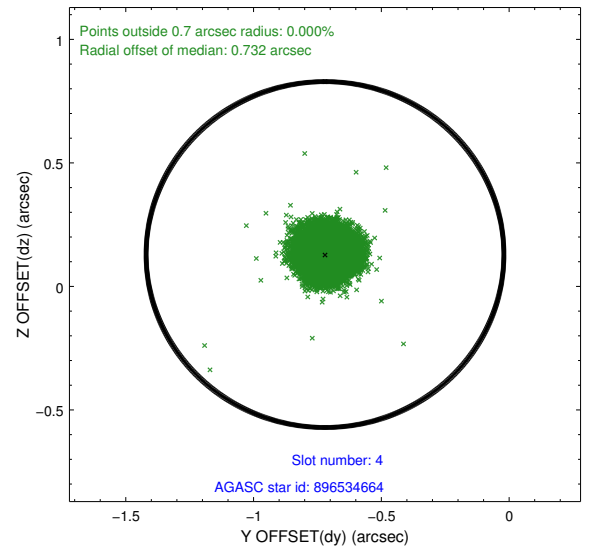
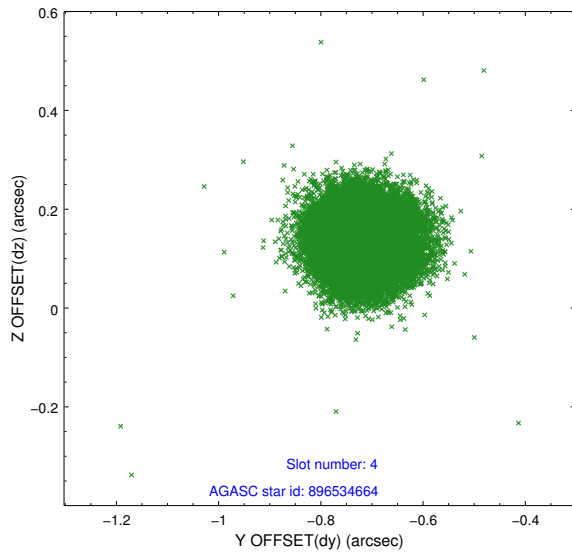
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2.4 Star Slots

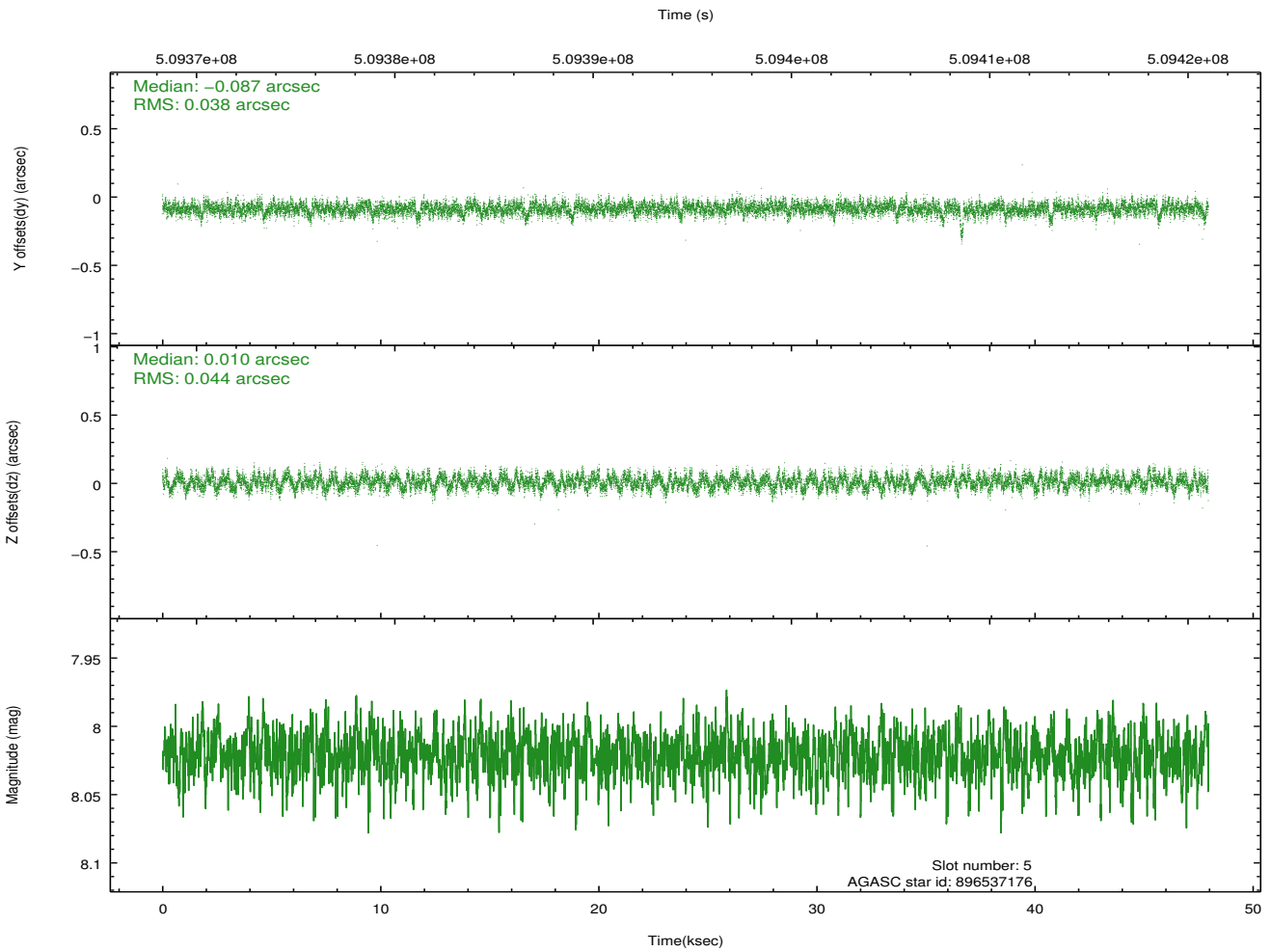
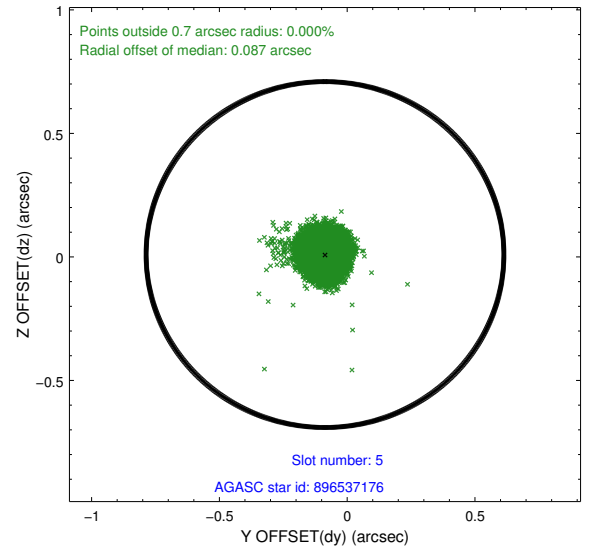
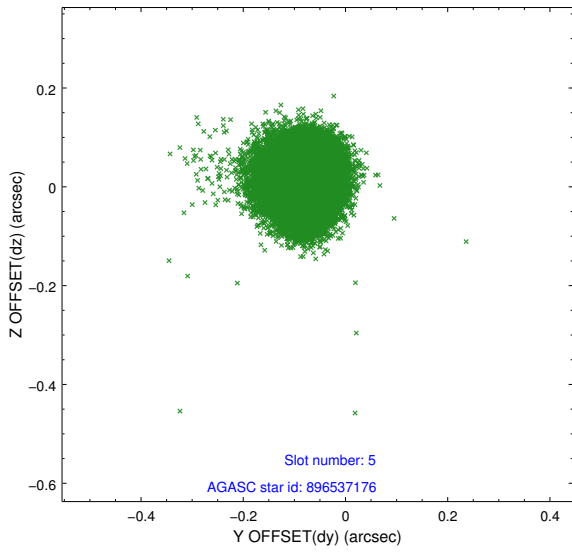
2.4.1 Slot 3



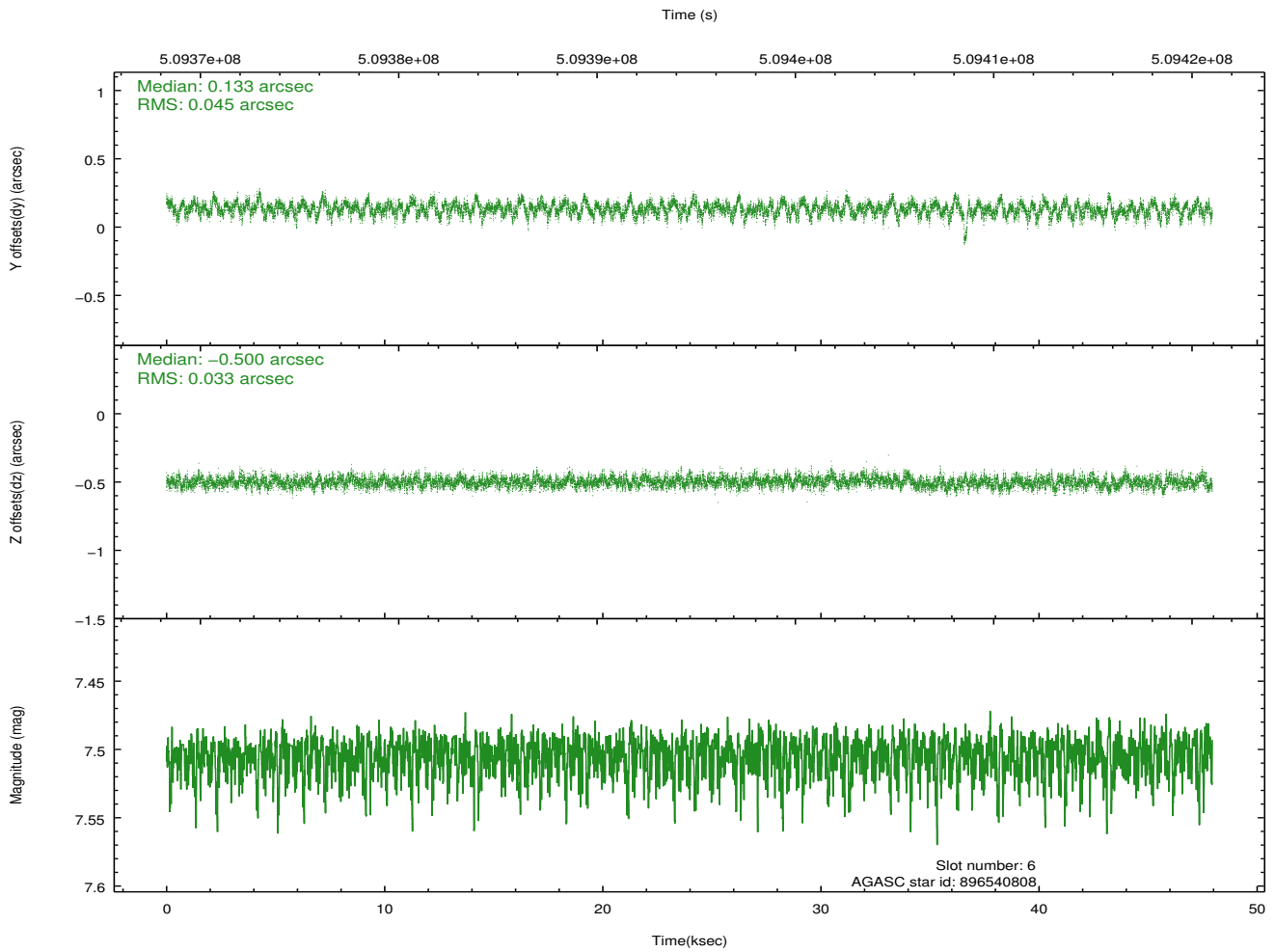
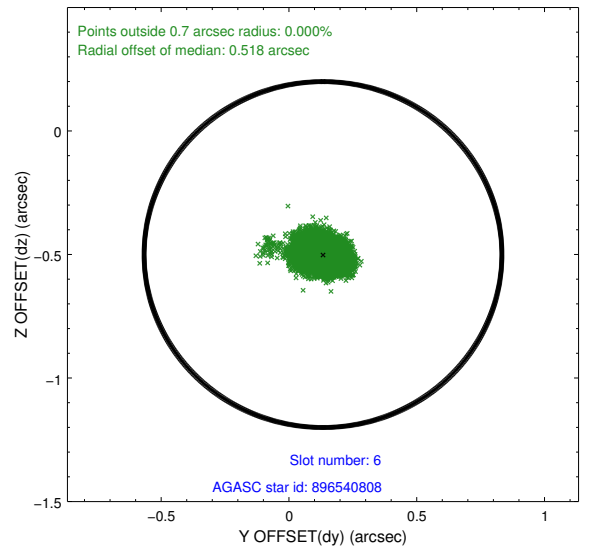
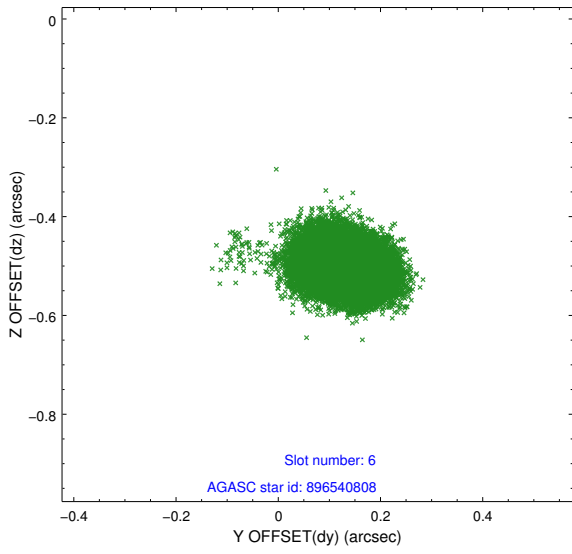
2.4.2 Slot 4



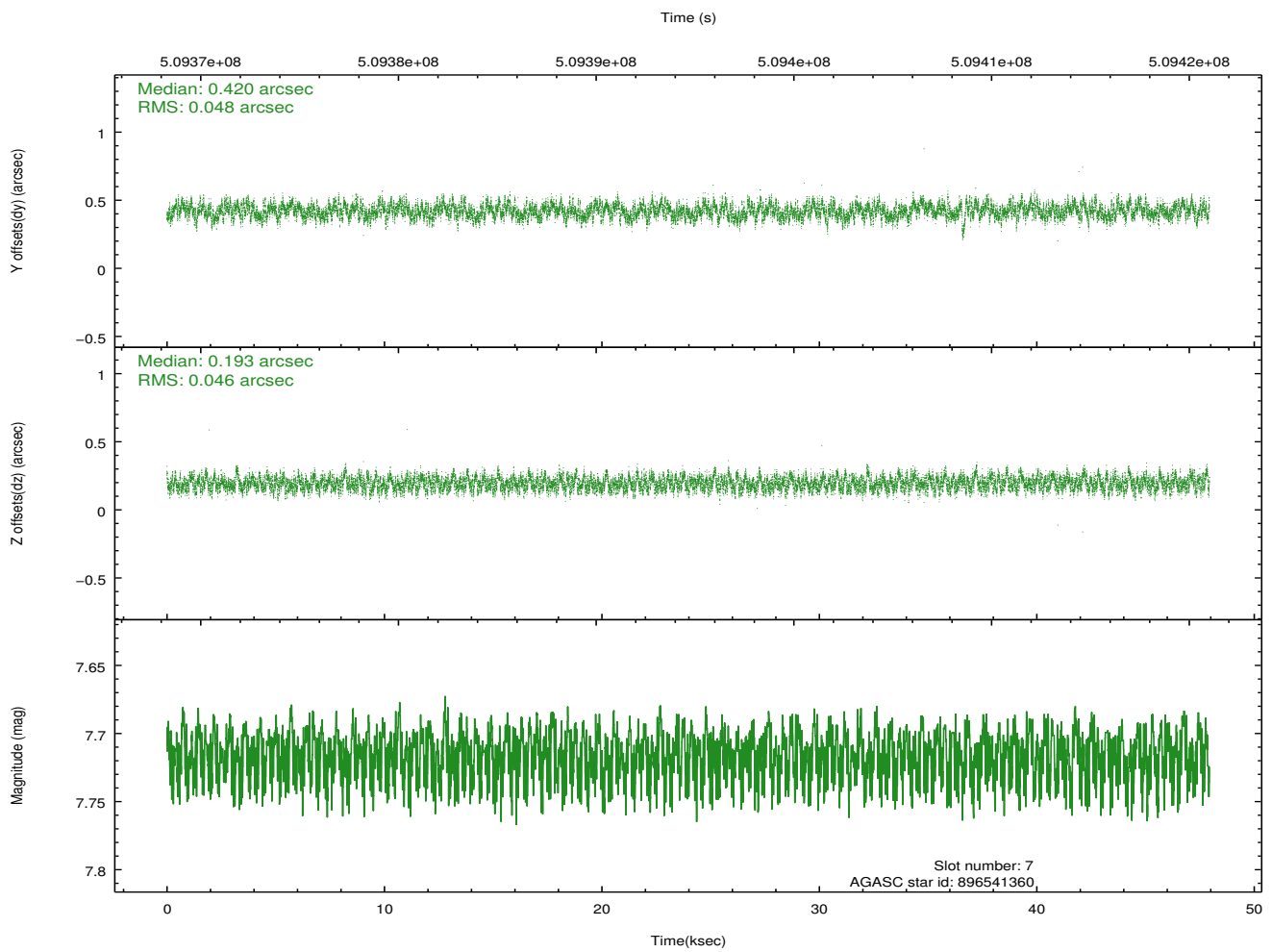
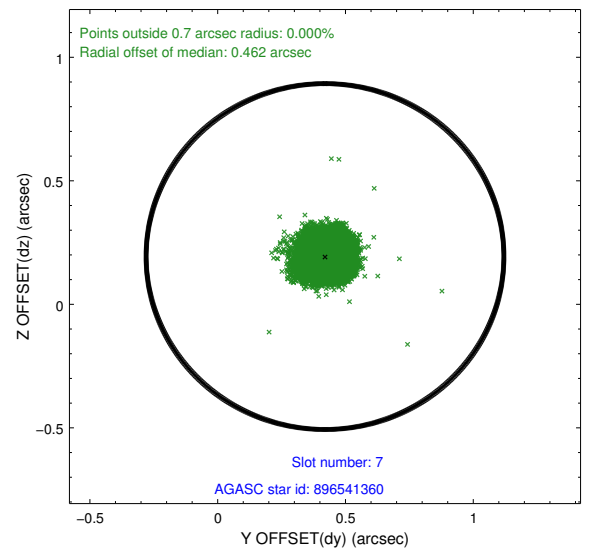
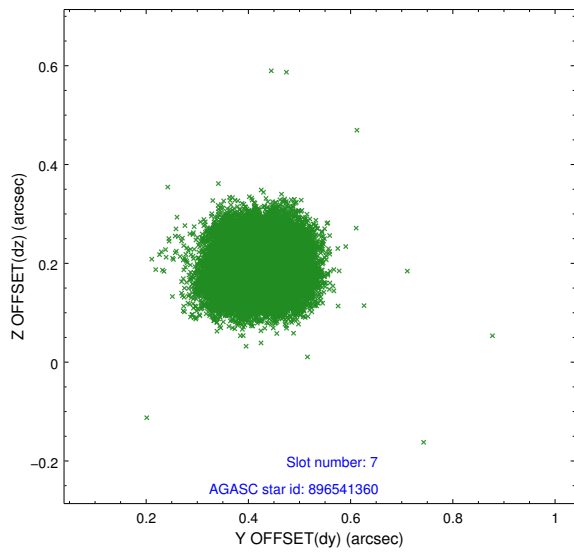
2.4.3 Slot 5



2.4.4 Slot 6

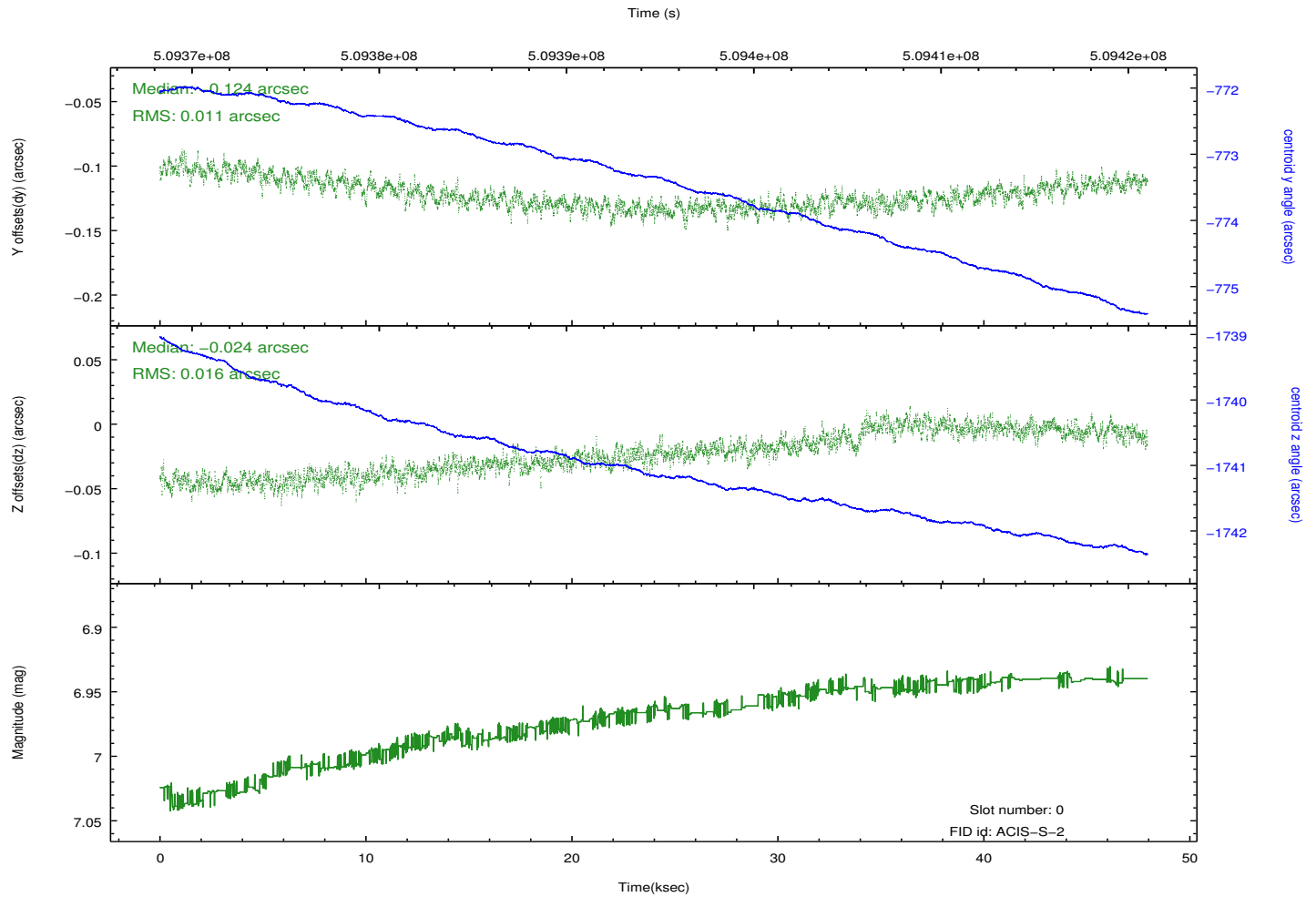
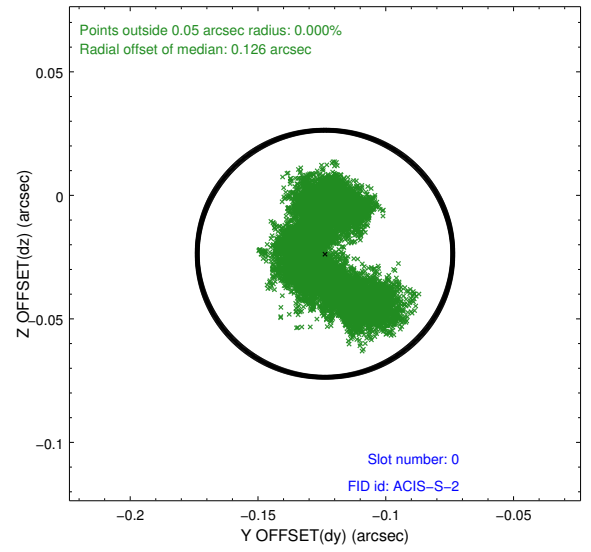
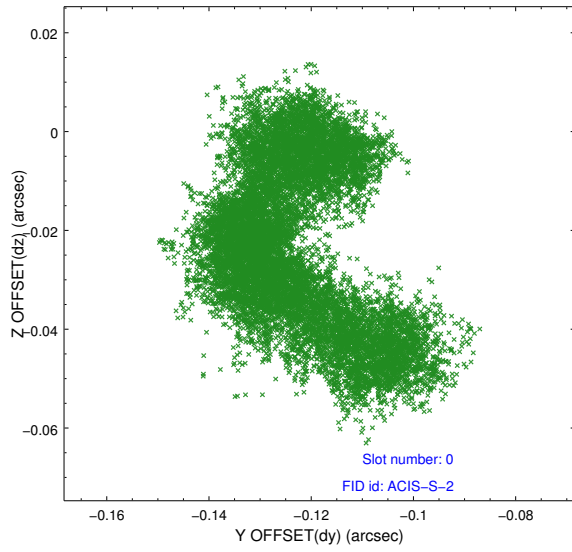


2.4.5 Slot 7

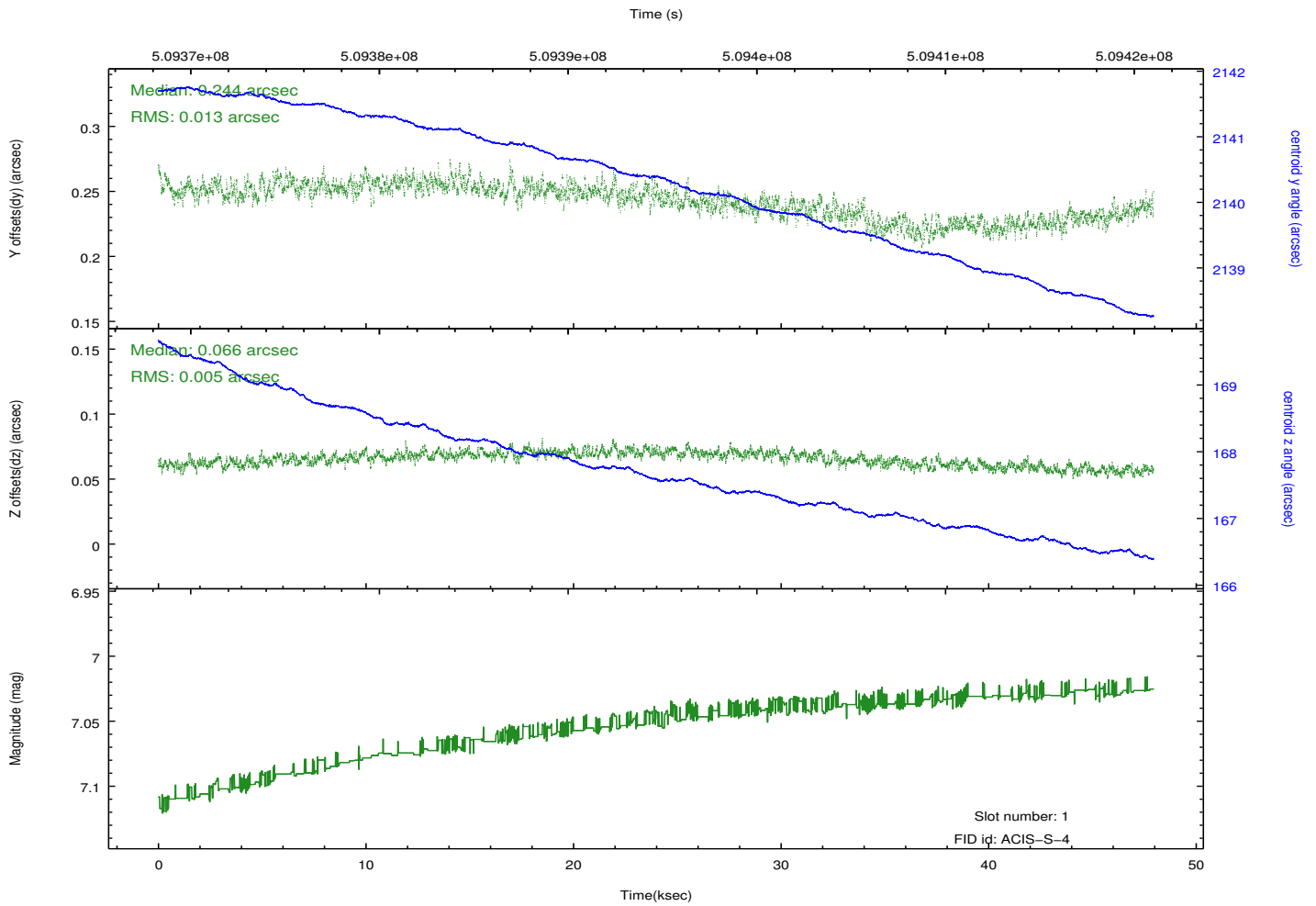
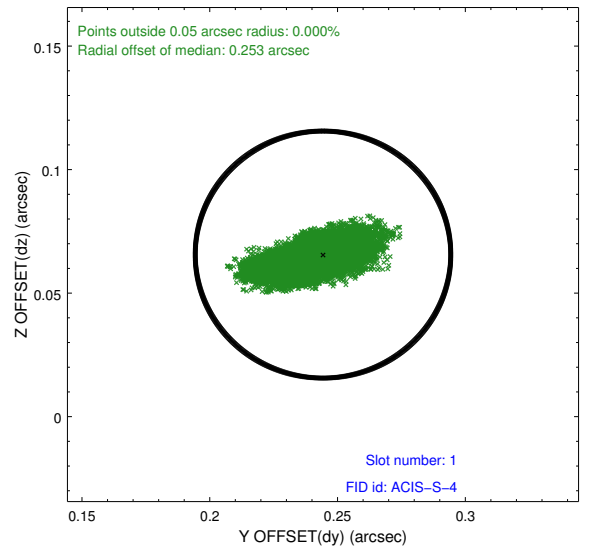
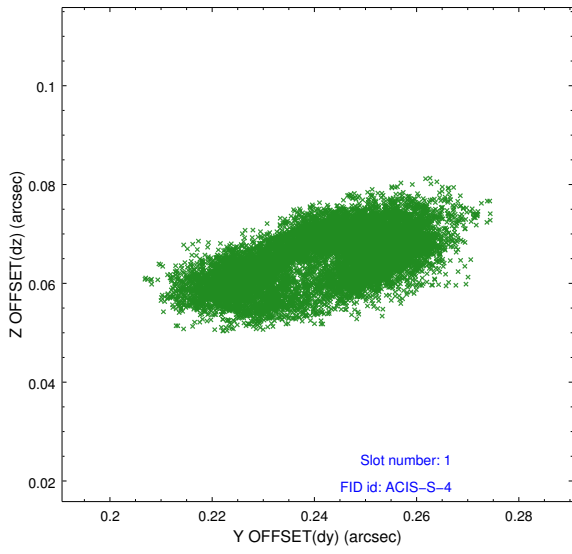


2.5 FID Slots

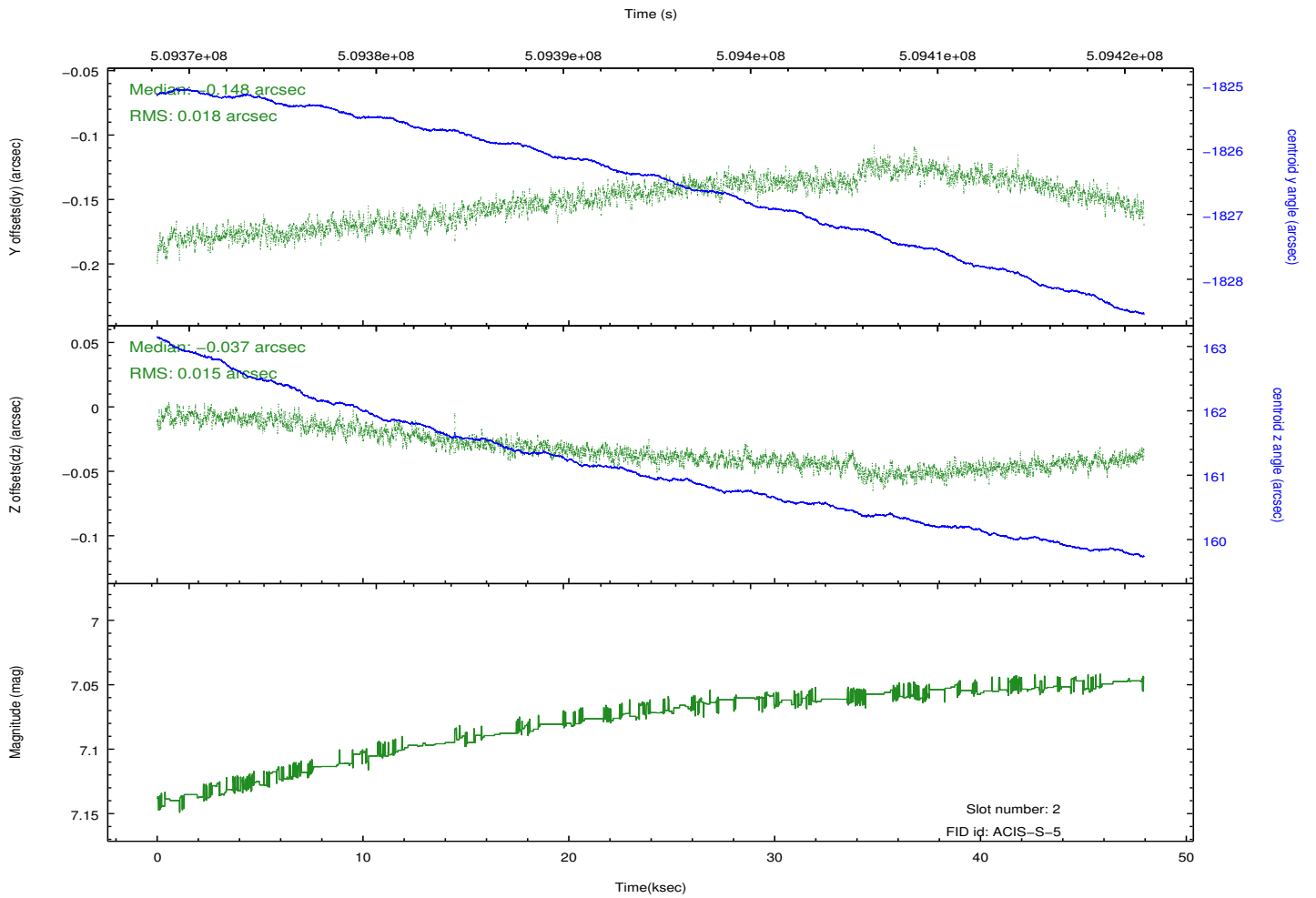
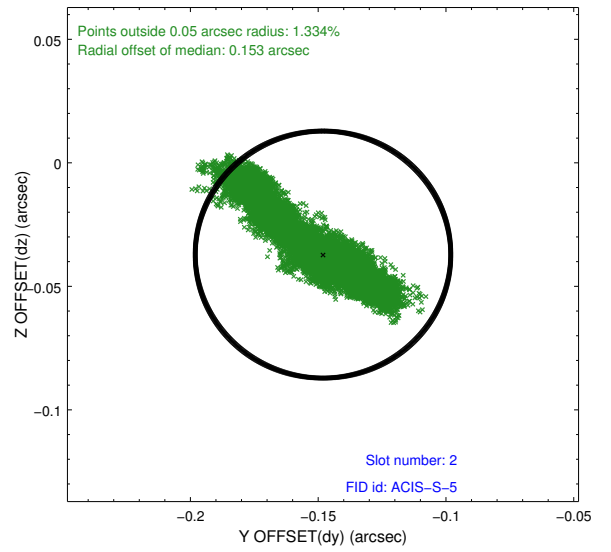
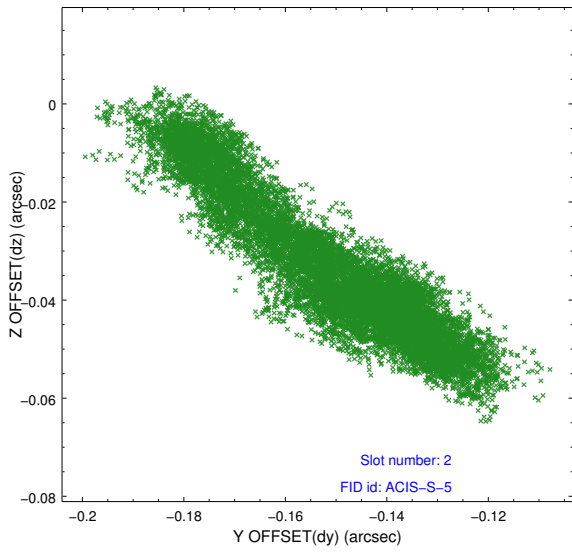
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.869197146773

A.2 Comments

Joint proposal with XMM and NRAO. Observation coordinated with EVLA and XMM. Window preference met.

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These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.