

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15486 - L2 Version 2
Chandra X-Ray Center

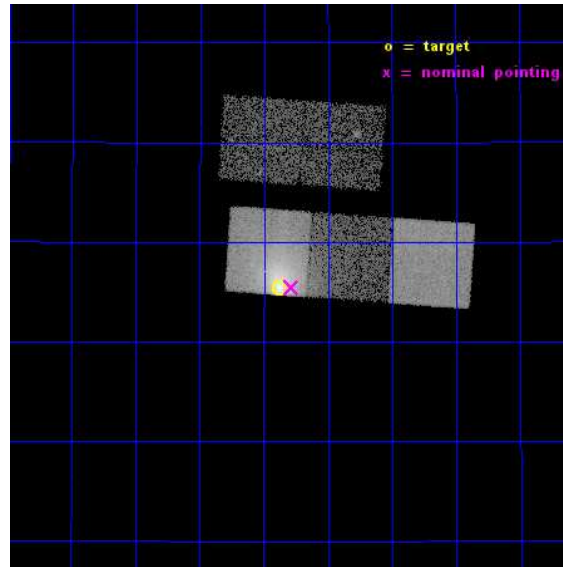
L2 Processing Date : Dec 2 2014

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1 Front

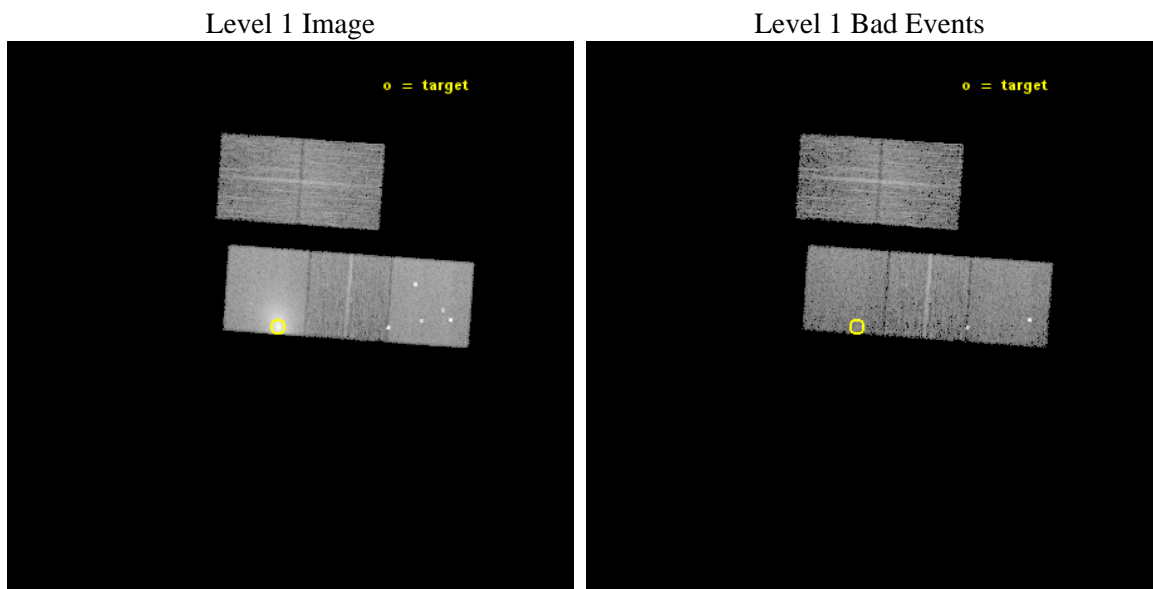
seq_num	890072	Sequence number
obs_id	15486	Observation id
title	AO-14 Calibration Observations of A1795	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.19622167199	Nominal RA [deg]
dec_nom	26.59107233251	Nominal Dec [deg]
roll_nom	183.98170940906	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9807.0958573222	Sum of GTIs [s]
livetime	9678.9589300674	Livetime [s]
ontime2	9806.931697309	Sum of GTIs [s]
ontime3	9806.9727373123	Sum of GTIs [s]
ontime5	9807.0548173189	Sum of GTIs [s]
ontime6	9807.0137773156	Sum of GTIs [s]
ontime7	9807.0958573222	Sum of GTIs [s]
l2events	159105	Number of level 2 events



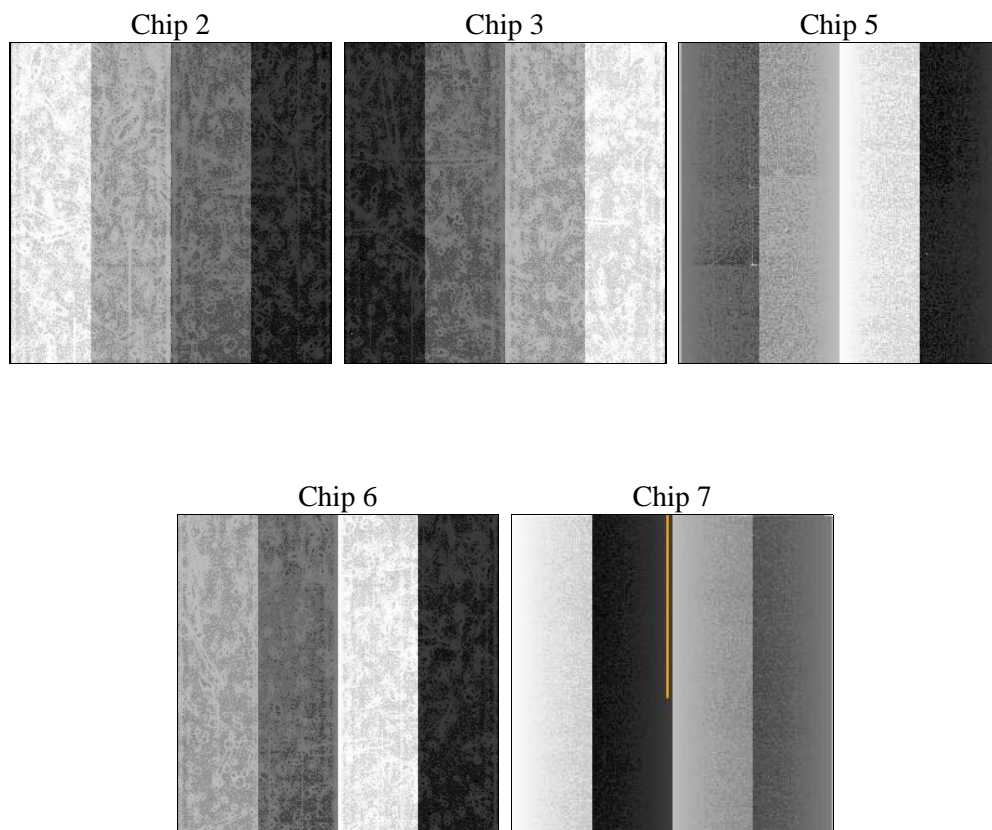
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10034.447000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	9807.0958573222	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	9806.931697309	Sum of GTIs [s]
date	2014-12-02T22:18:42	Date and time of file creation	ontime3	9806.9727373123	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	9807.0548173189	Sum of GTIs [s]
			ontime6	9807.0137773156	Sum of GTIs [s]
			ontime7	9807.0958573222	Sum of GTIs [s]
			l1events	389861	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	50750	47133	94743	55080	142155
rejected events	44585	41019	47972	45292	40794
rejected %	87%	87%	50%	82%	28%

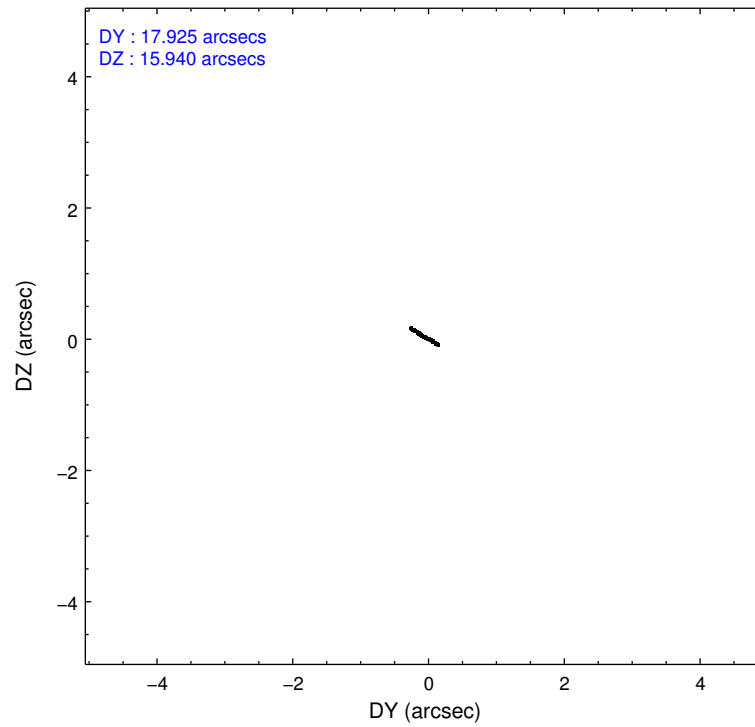
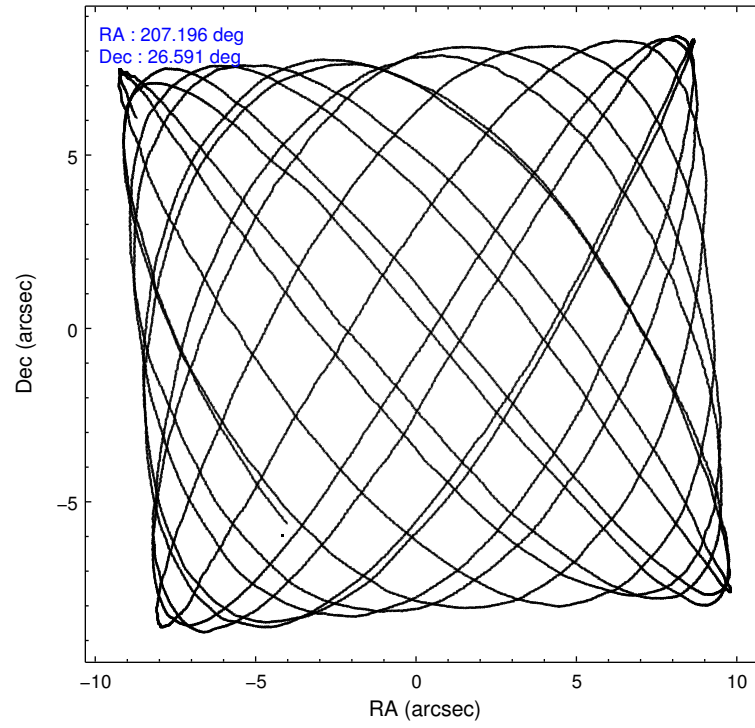
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2339	2312	7440	4946	22169
	4%	4%	7%	8%	15%
grade 1 events	34	40	515	46	108
	0%	0%	0%	0%	0%
grade 2 events	1463	1298	12919	1793	24697
	2%	2%	13%	3%	17%
grade 3 events	637	639	1599	734	10996
	1%	1%	1%	1%	7%
grade 4 events	567	657	1661	771	10815
	1%	1%	1%	1%	7%
grade 5 events	2070	2705	6914	2762	7762
	4%	5%	7%	5%	5%
grade 6 events	1162	1211	23190	1551	32751
	2%	2%	24%	2%	23%
grade 7 events	42478	38271	40505	42477	32857
	83%	81%	42%	77%	23%

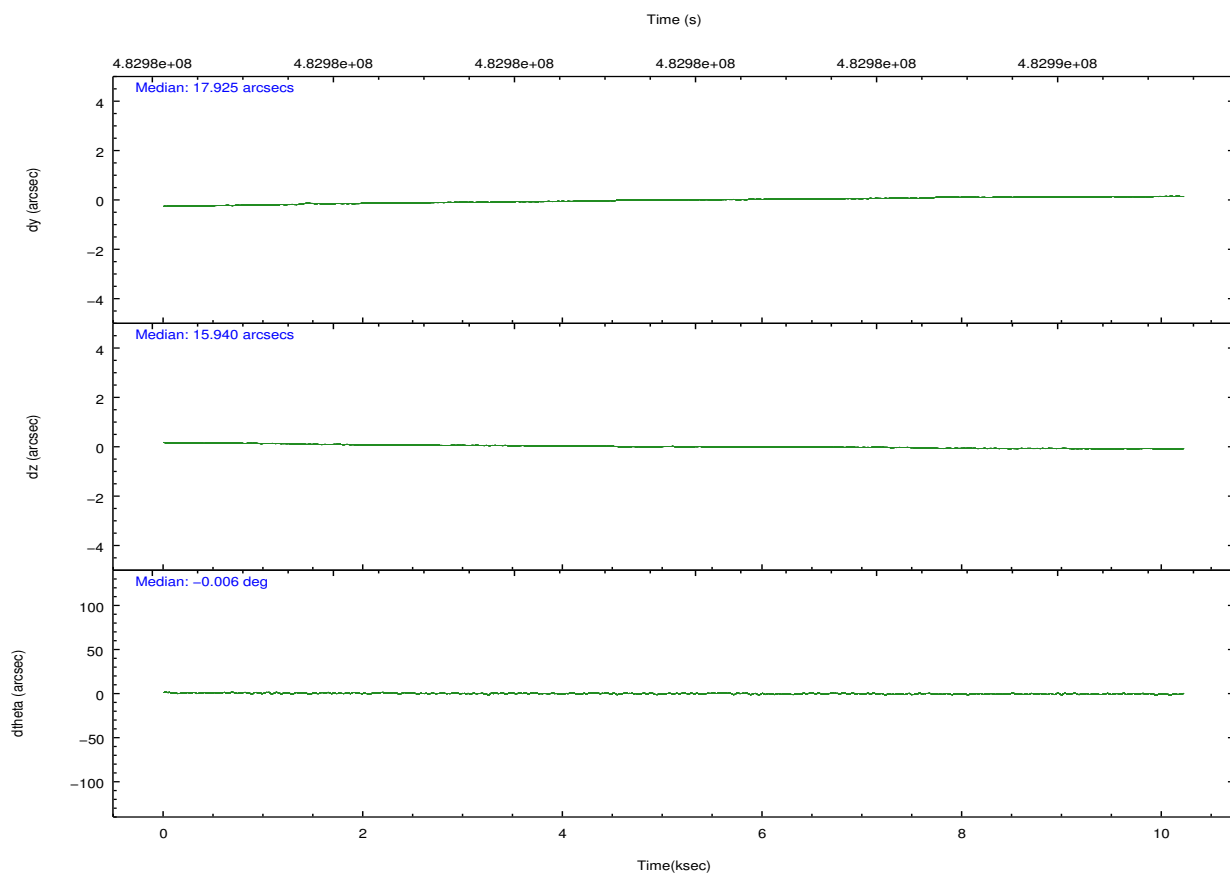
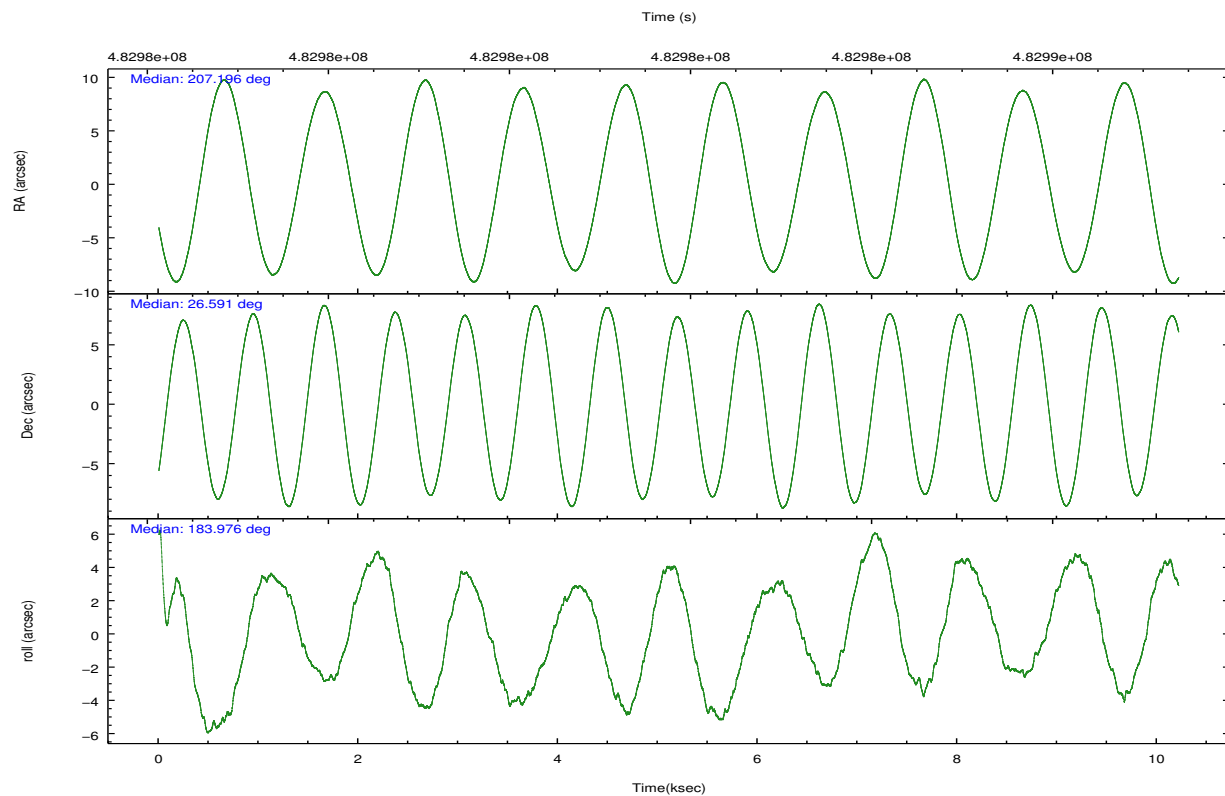
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	207.221385	207.1962216719911
[deg] Pointing Dec	26.606638	26.59107233250973
[deg] Pointing Roll	183.813812	183.9817094090564
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-180.332523	-180.3266934278832
[mm] SIM translation stage offset	-9.800000000000001	-9.805829155124599
[s] Observation start time (MET)	482976830.184000	482976454.25954
Observation start date	2013-04-22T00:12:43	2013-04-22T00:07:34
[s] Observation end time (MET)	482986865.184000	482987087.61012
Observation end date	2013-04-22T02:59:58	2013-04-22T03:04:47
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



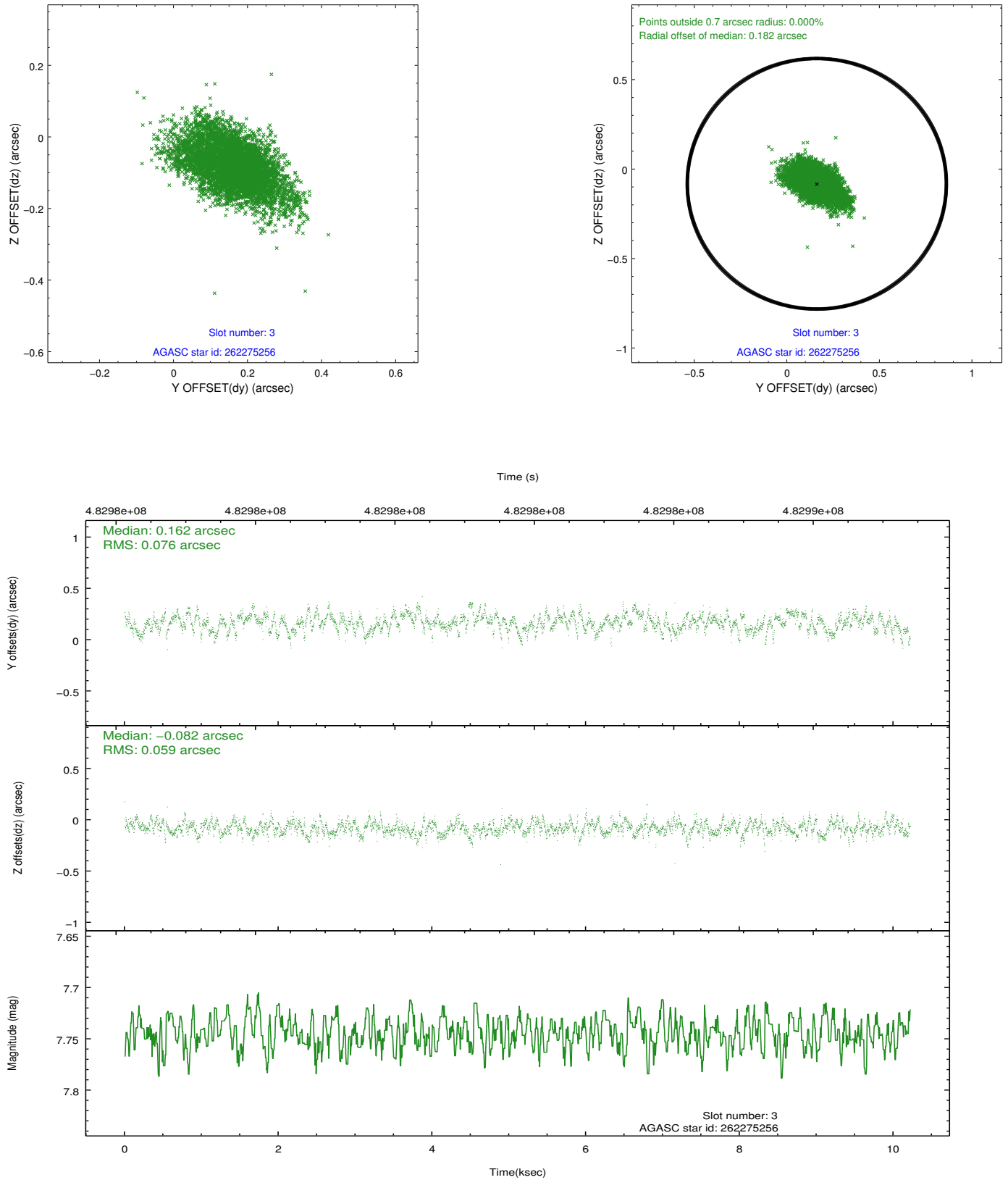


Slot Statistics

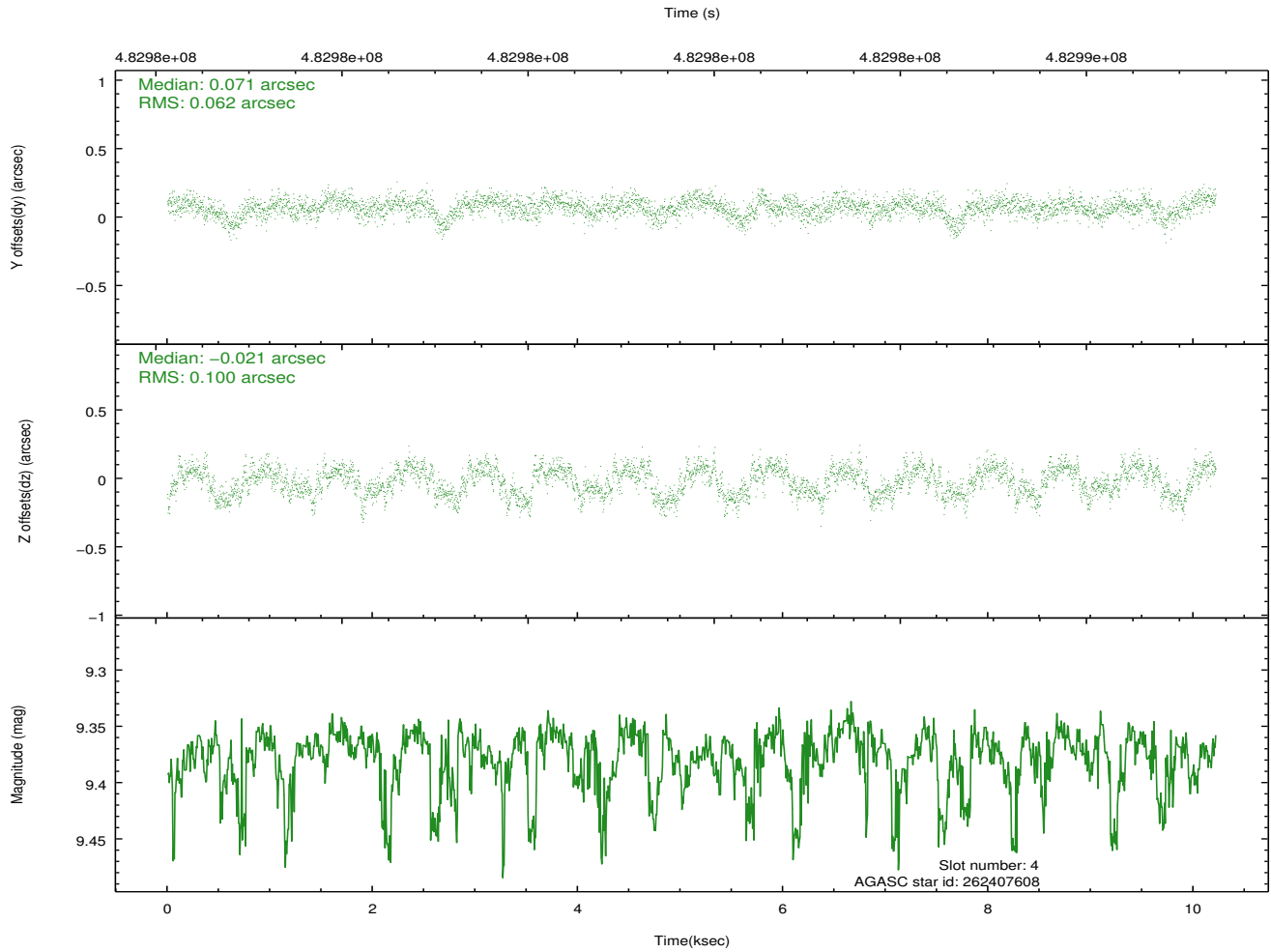
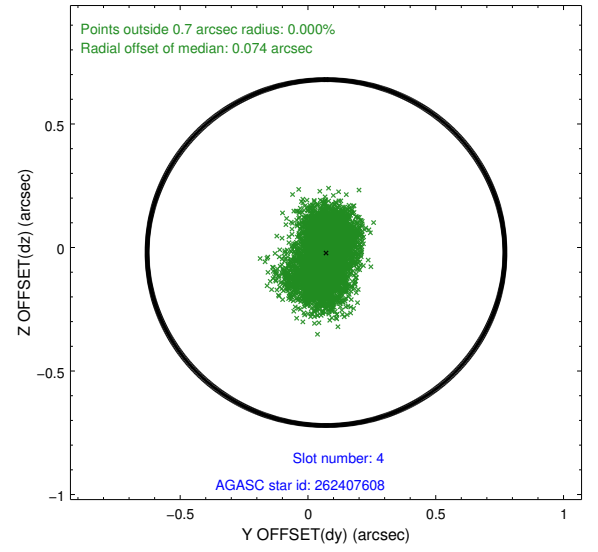
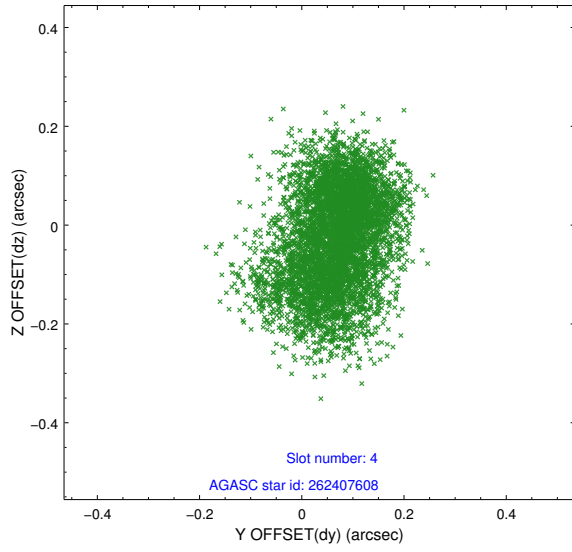
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.03	2492	0.095	0.187	0.007	0.011	0.000000	0.000000	925.94	-1934.71
1	FID		ACIS-S-2	6.93	2492	-0.204	-0.126	0.008	0.013	0.000000	0.000000	-769.98	-1940.22
2	FID		ACIS-S-6	7.24	2492	0.088	-0.059	0.007	0.012	0.000000	0.000000	391.30	605.74
3	GUIDE	used	262275256	7.74	4983	0.162	-0.082	0.099	0.174	206.467522	27.226414	2259.80	-2393.48
4	GUIDE	used	262407608	9.38	4980	0.071	-0.021	0.126	0.200	207.378401	26.435507	-463.55	647.97
5	GUIDE	used	262408096	9.33	4973	-0.154	-0.139	0.135	0.204	207.011678	26.515421	696.27	282.39
6	GUIDE	used	262408512	8.00	4985	-0.156	0.126	0.067	0.106	207.800210	27.128796	-1975.37	-1756.17
7	GUIDE	used	262409552	8.19	4982	0.090	0.121	0.090	0.156	206.584269	27.192805	1895.31	-2245.83

2.4 Star Slots

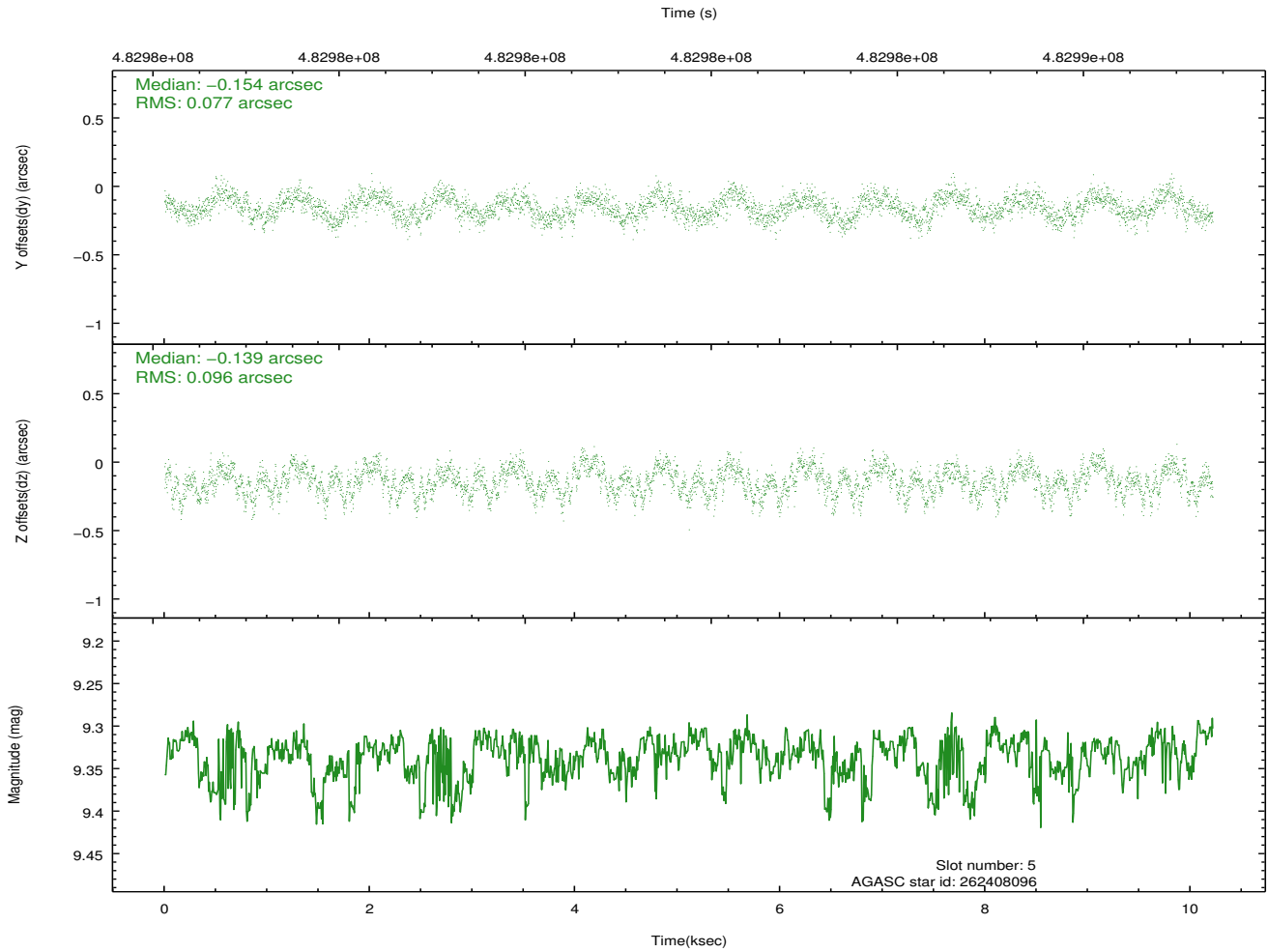
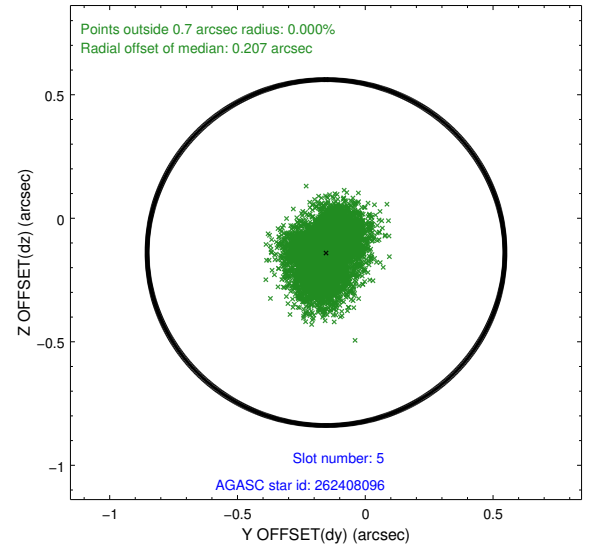
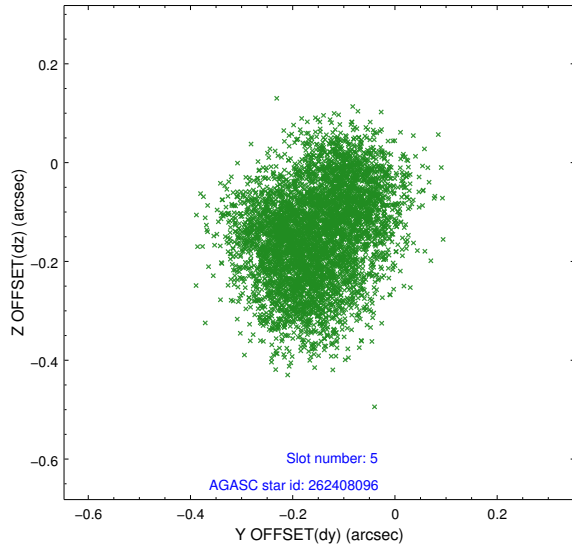
2.4.1 Slot 3



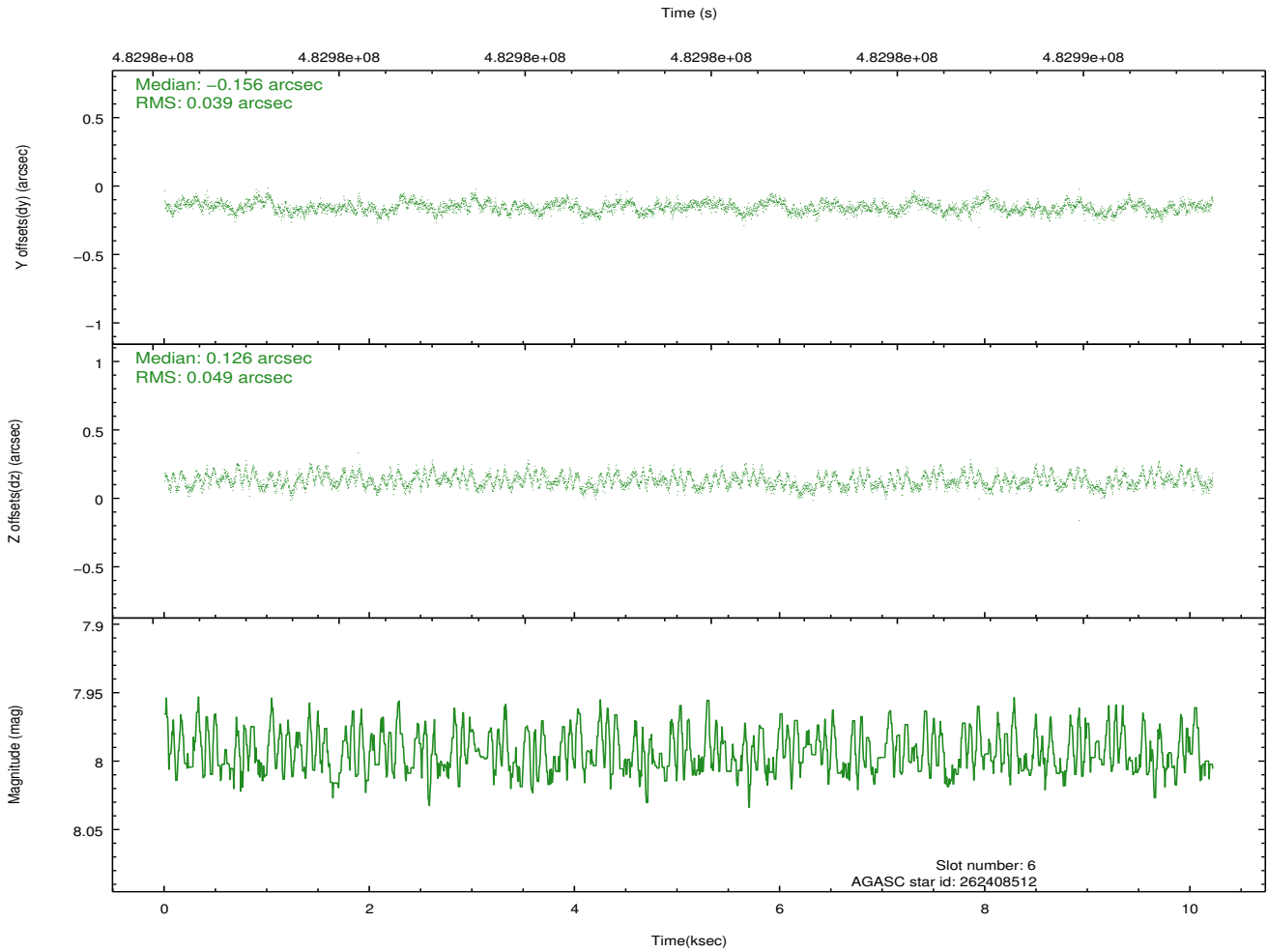
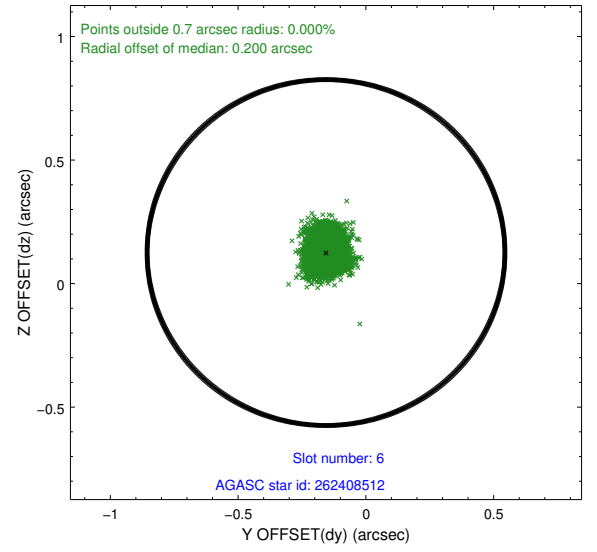
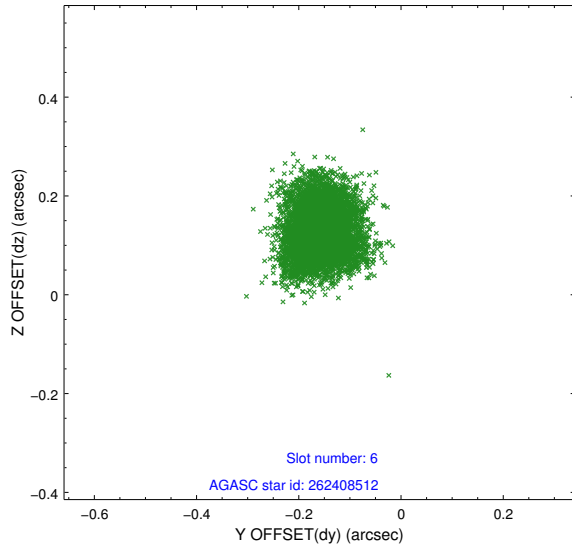
2.4.2 Slot 4



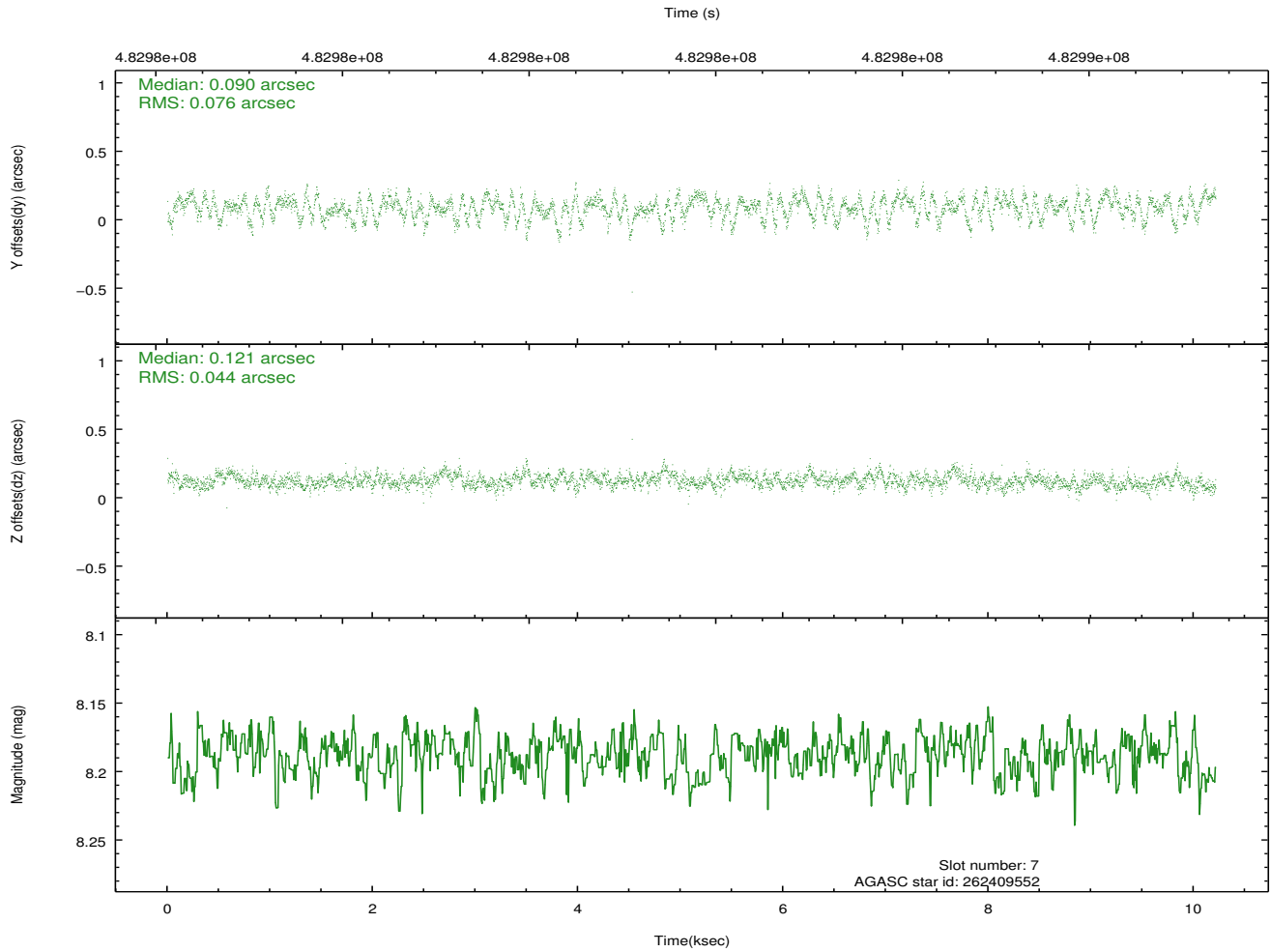
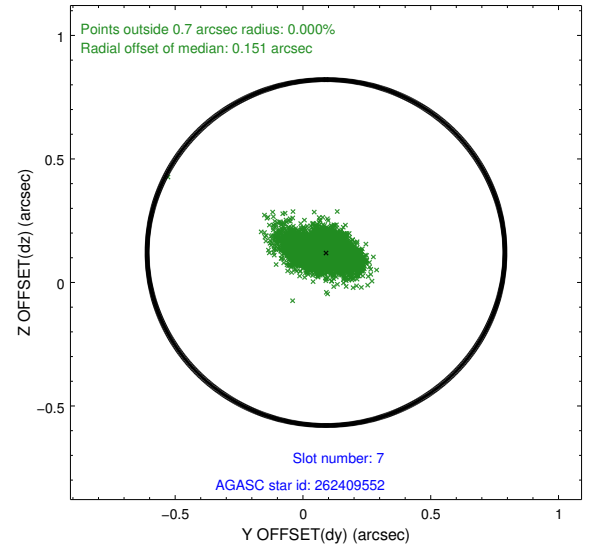
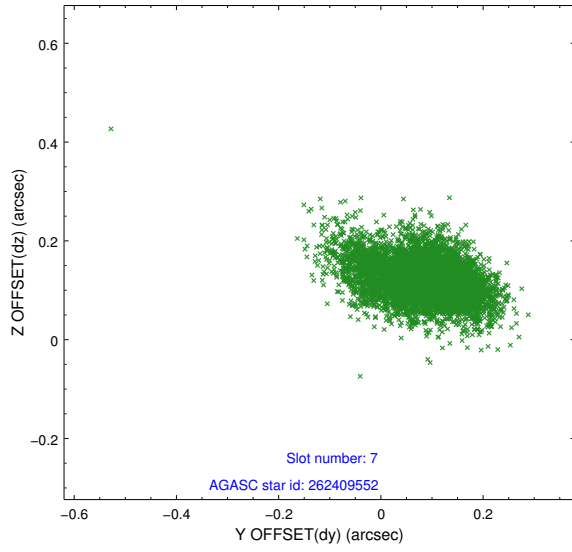
2.4.3 Slot 5



2.4.4 Slot 6

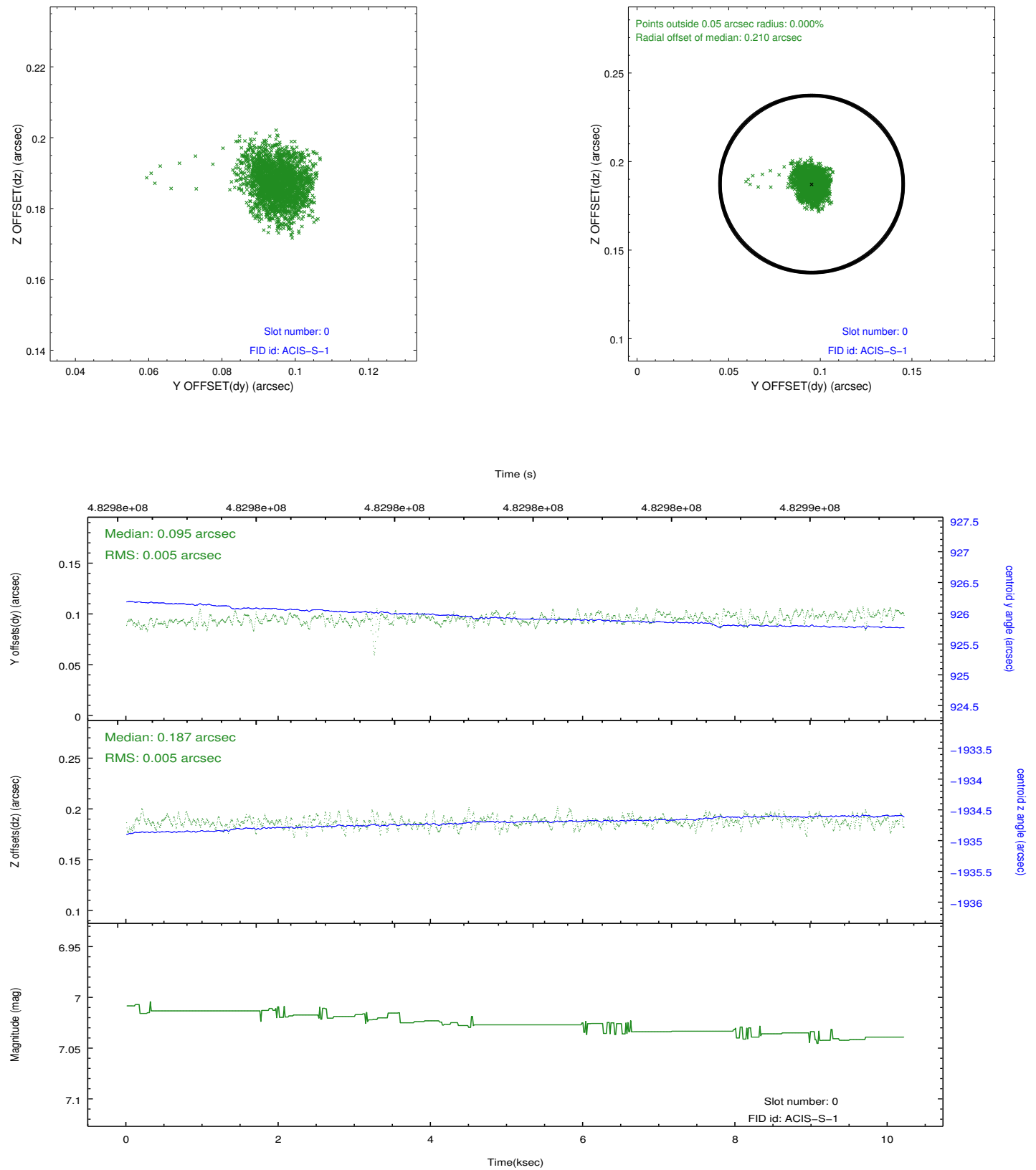


2.4.5 Slot 7

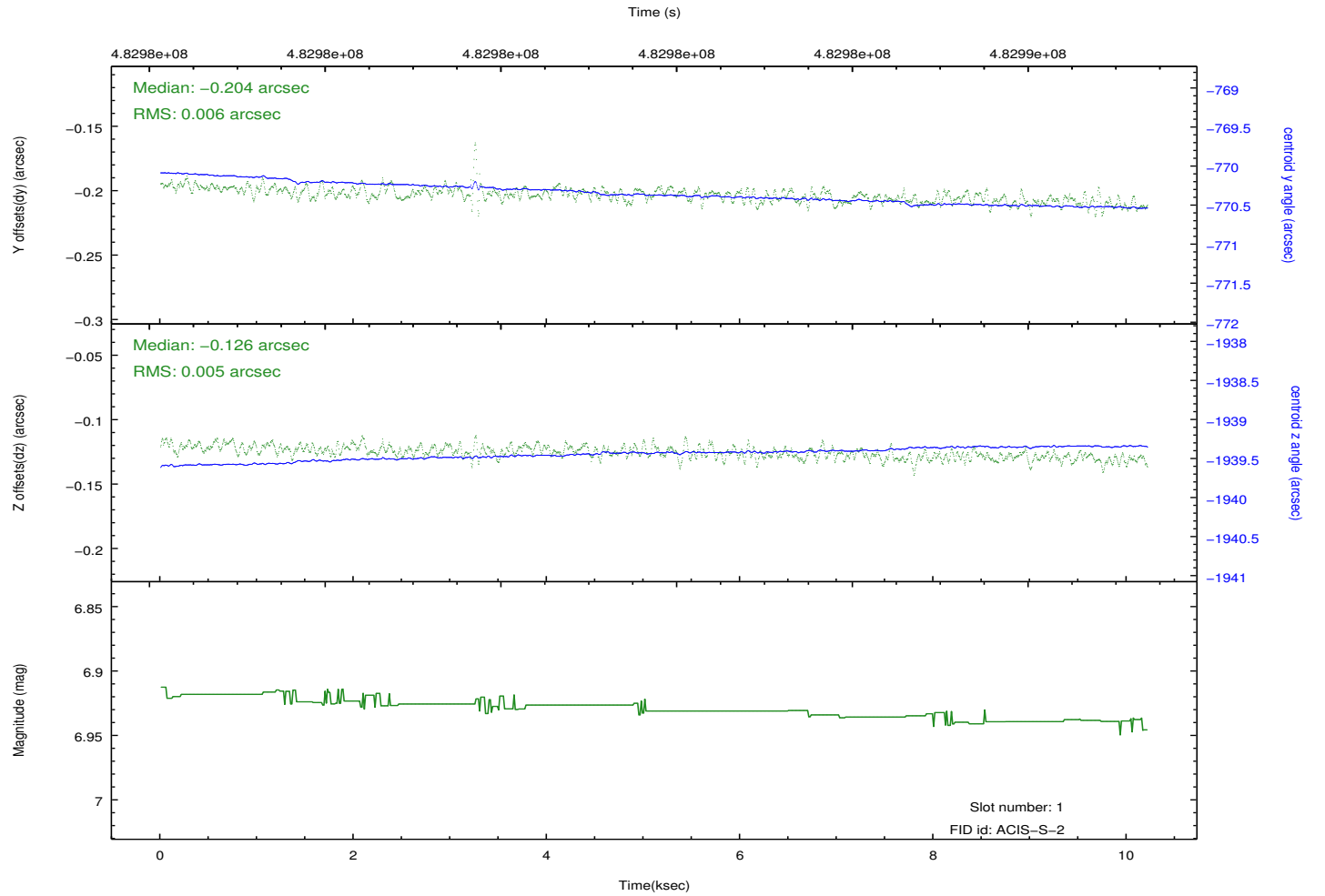
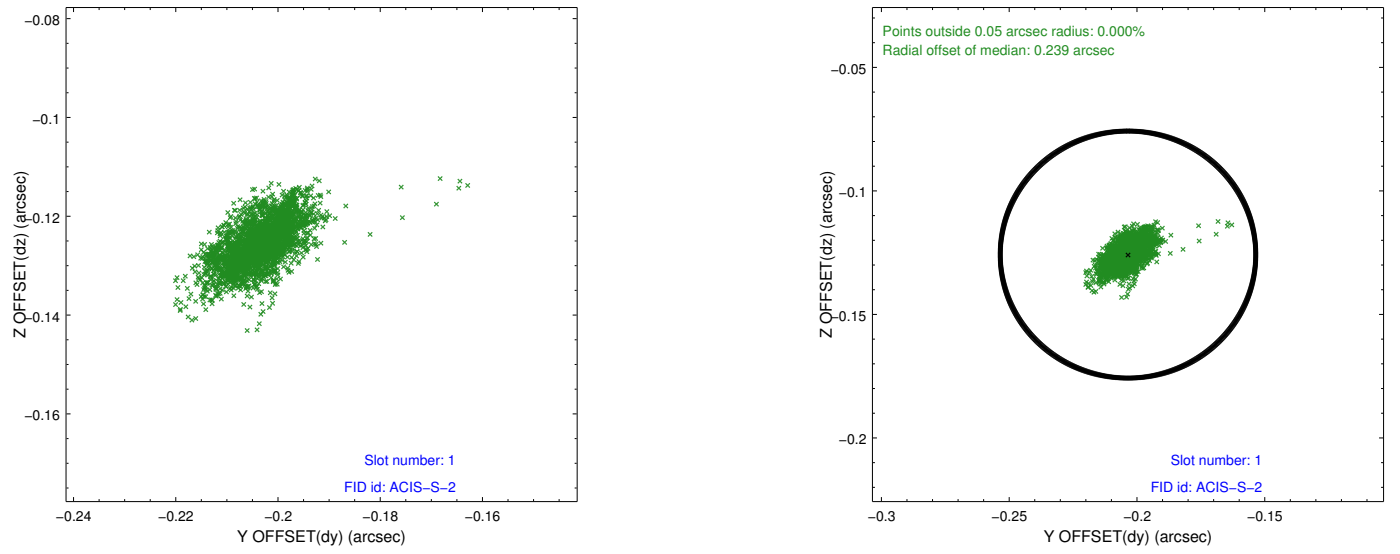


2.5 FID Slots

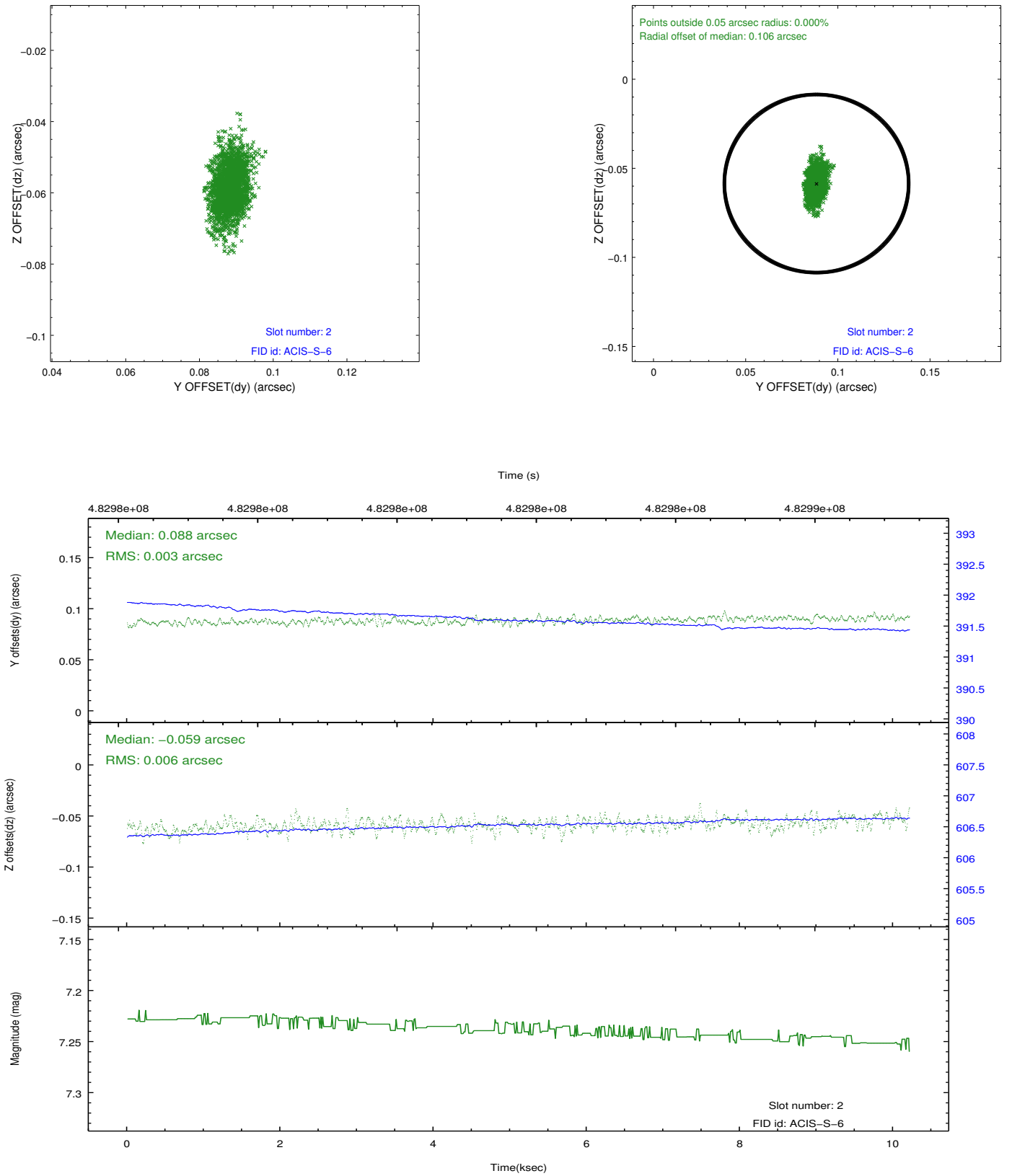
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.8070958573222

A.2 Comments

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.