

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 13354 - L2 Version 1  
Chandra X-Ray Center

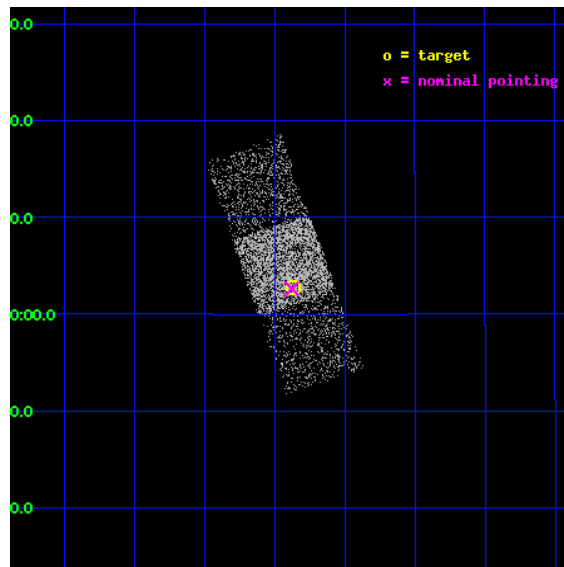
L2 Processing Date : Apr 22 2012

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# 1 Front

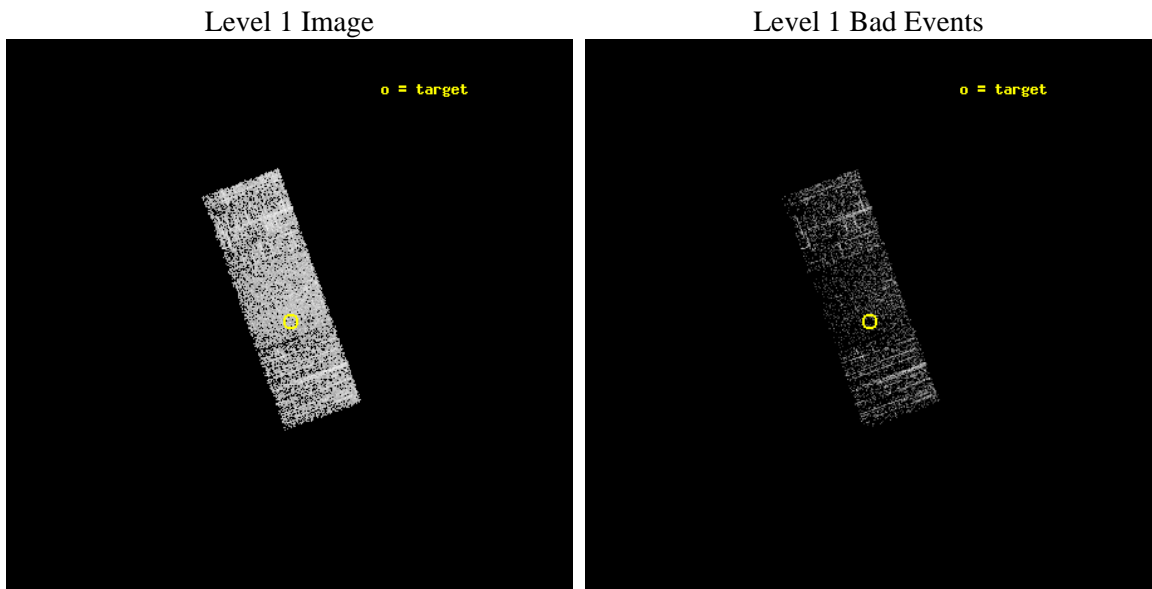
seq_num	702561	Sequence number
obs_id	13354	Observation id
title	A Large, Economical Snapshot Survey of the Most-Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J0958+1202	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.7175	Observer's specified target RA [deg]
dec_targ	12.045833	Observer's specified target Dec [deg]
ra_nom	149.7193681819	Nominal RA [deg]
dec_nom	12.04372899122	Nominal Dec [deg]
roll_nom	250.20760674828	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1580.3882966638	Sum of GTIs [s]
livetime	1559.7393601029	Livetime [s]
ontime6	1580.3472566605	Sum of GTIs [s]
ontime7	1580.3882966638	Sum of GTIs [s]
ontime8	1580.3062166572	Sum of GTIs [s]
l2events	6522	Number of level 2 events



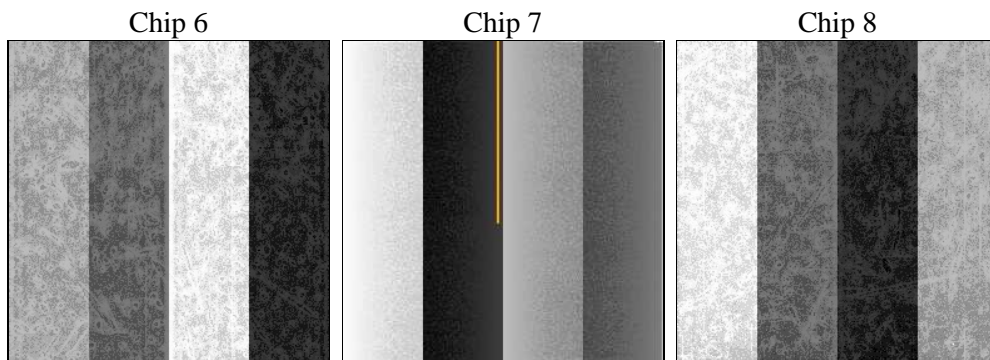
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	1580.3882966638	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime6	1580.3472566605	Sum of GTIs [s]
date	2012-04-22T16:54:12	Date and time of file creation	ontime7	1580.3882966638	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	1580.3062166572	Sum of GTIs [s]
			l1events	30242	Number of level 1 events

### 2.1.4 Events

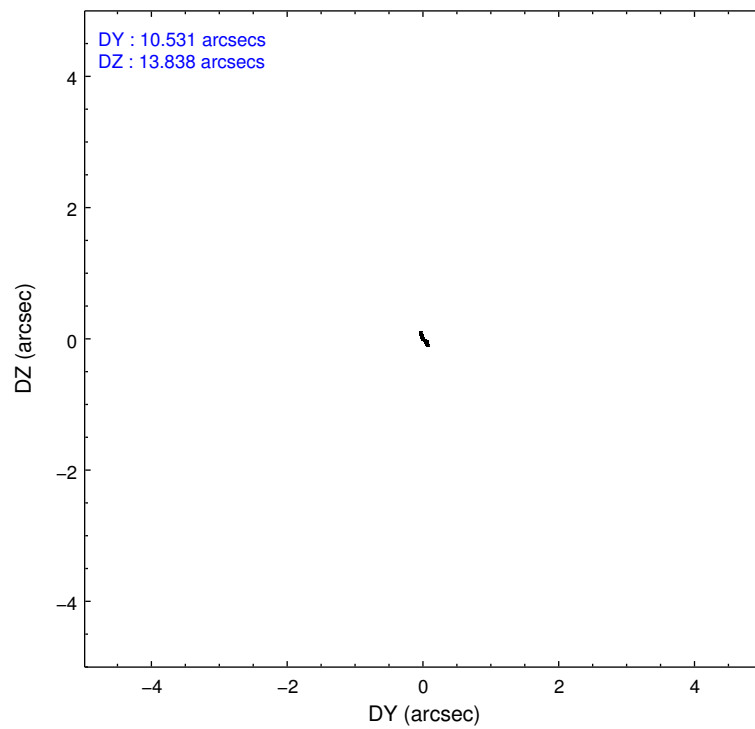
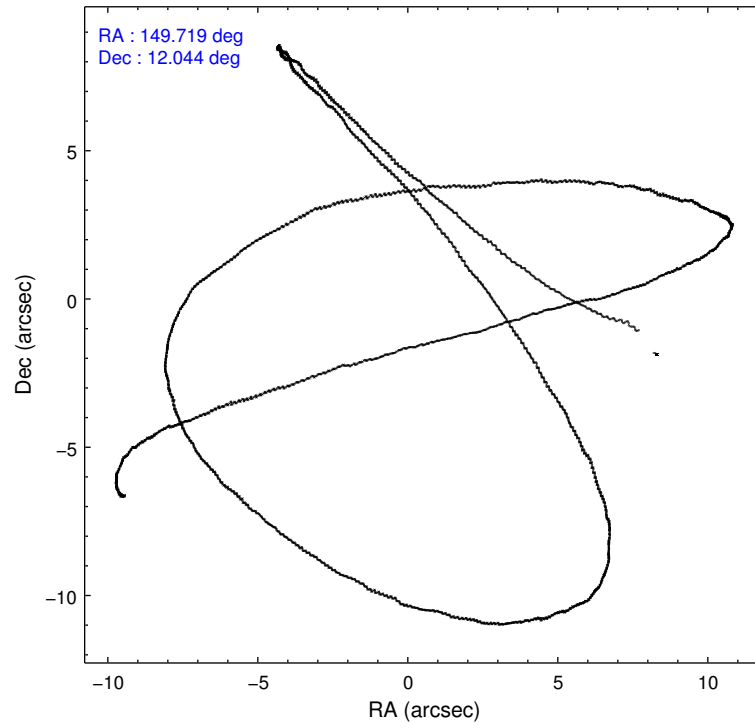
	ccd 6	ccd 7	ccd 8
level 1 events	8904	9843	11495
rejected events	7872	5112	8262
rejected %	88%	51%	71%

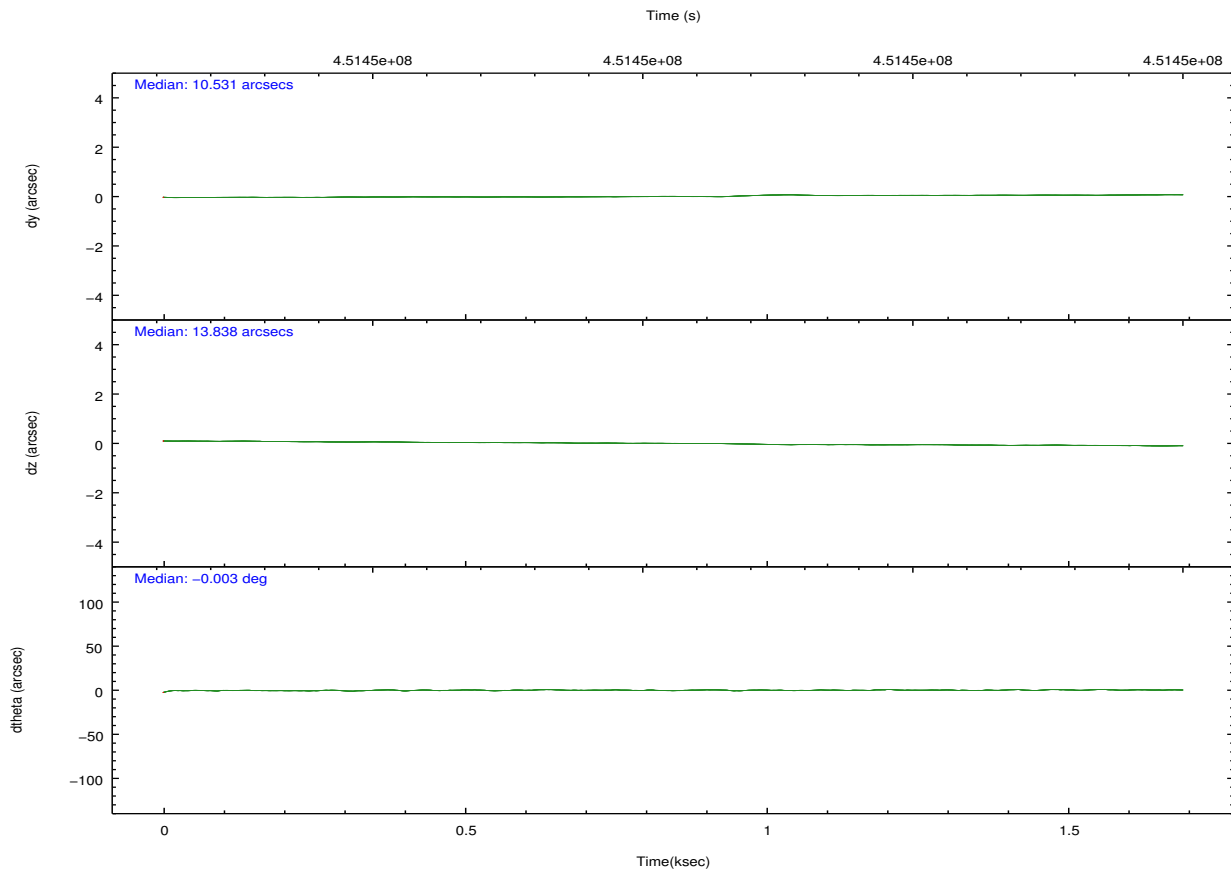
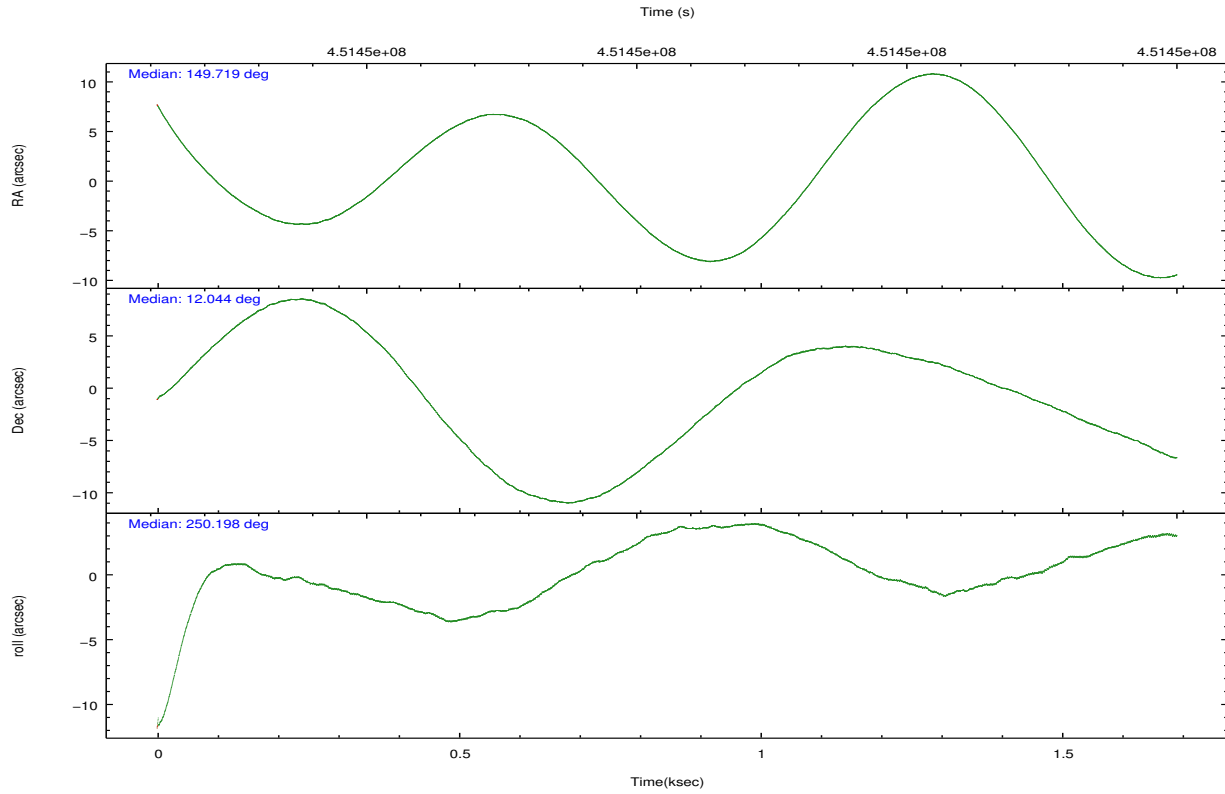
	ccd 6	ccd 7	ccd 8
grade 0 events	338	476	931
	3%	4%	8%
grade 1 events	6	10	12
	0%	0%	0%
grade 2 events	247	1022	730
	2%	10%	6%
grade 3 events	125	429	329
	1%	4%	2%
grade 4 events	107	440	344
	1%	4%	2%
grade 5 events	426	1041	556
	4%	10%	4%
grade 6 events	223	2378	922
	2%	24%	8%
grade 7 events	7432	4047	7671
	83%	41%	66%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	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
[deg] Pointing RA	149.714061	149.7193681819001	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.070278	12.04372899121952	Alternating exposures requested	N	N
[deg] Pointing Roll	250.052139	250.2076067482805	[s] Primary exposure time	0.000000	3.1
[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)	451450397.184000	451448647.72125			
Observation start date	2012-04-22T02:52:11	2012-04-22T02:24:07			
[s] Observation end time (MET)	451451897.184000	451452664.69646			
Observation end date	2012-04-22T03:17:11	2012-04-22T03:31:04			
Read mode	TIMED	TIMED			

## 2.3 Aspect



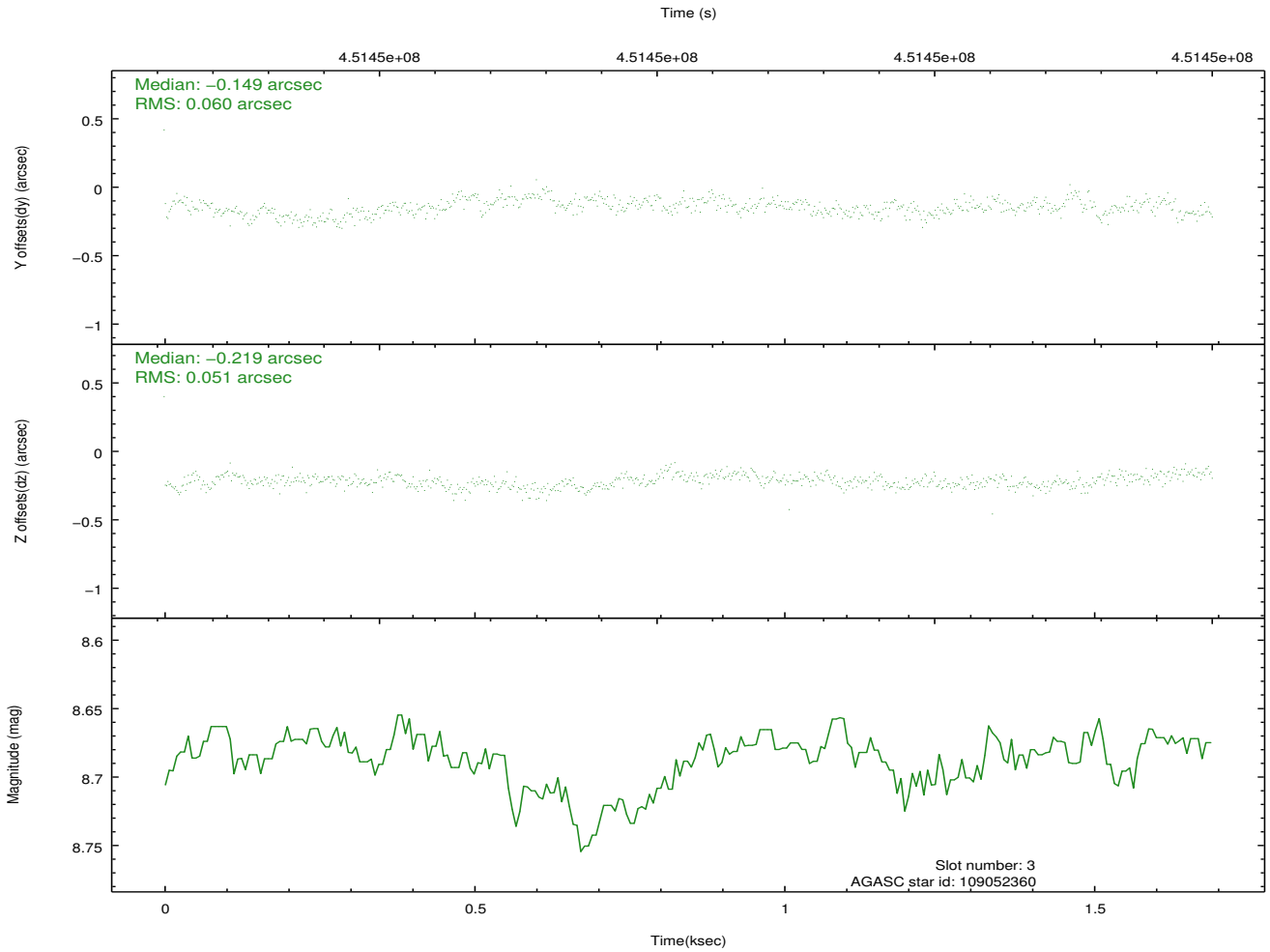
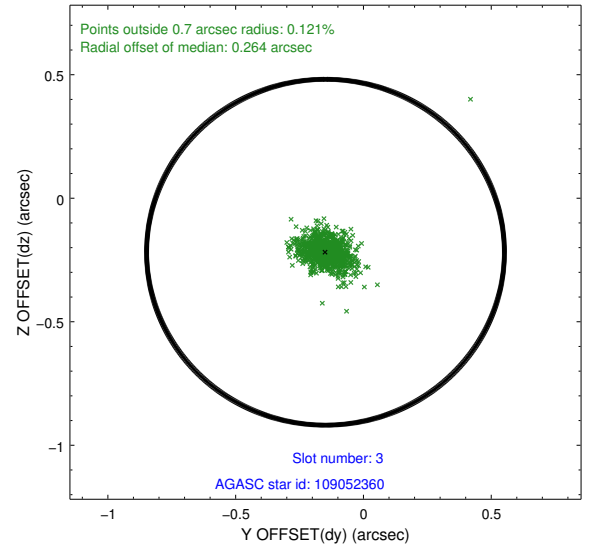
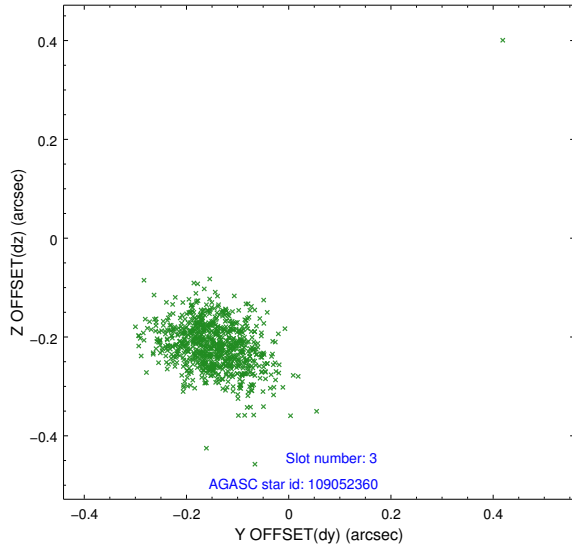


### Slot Statistics

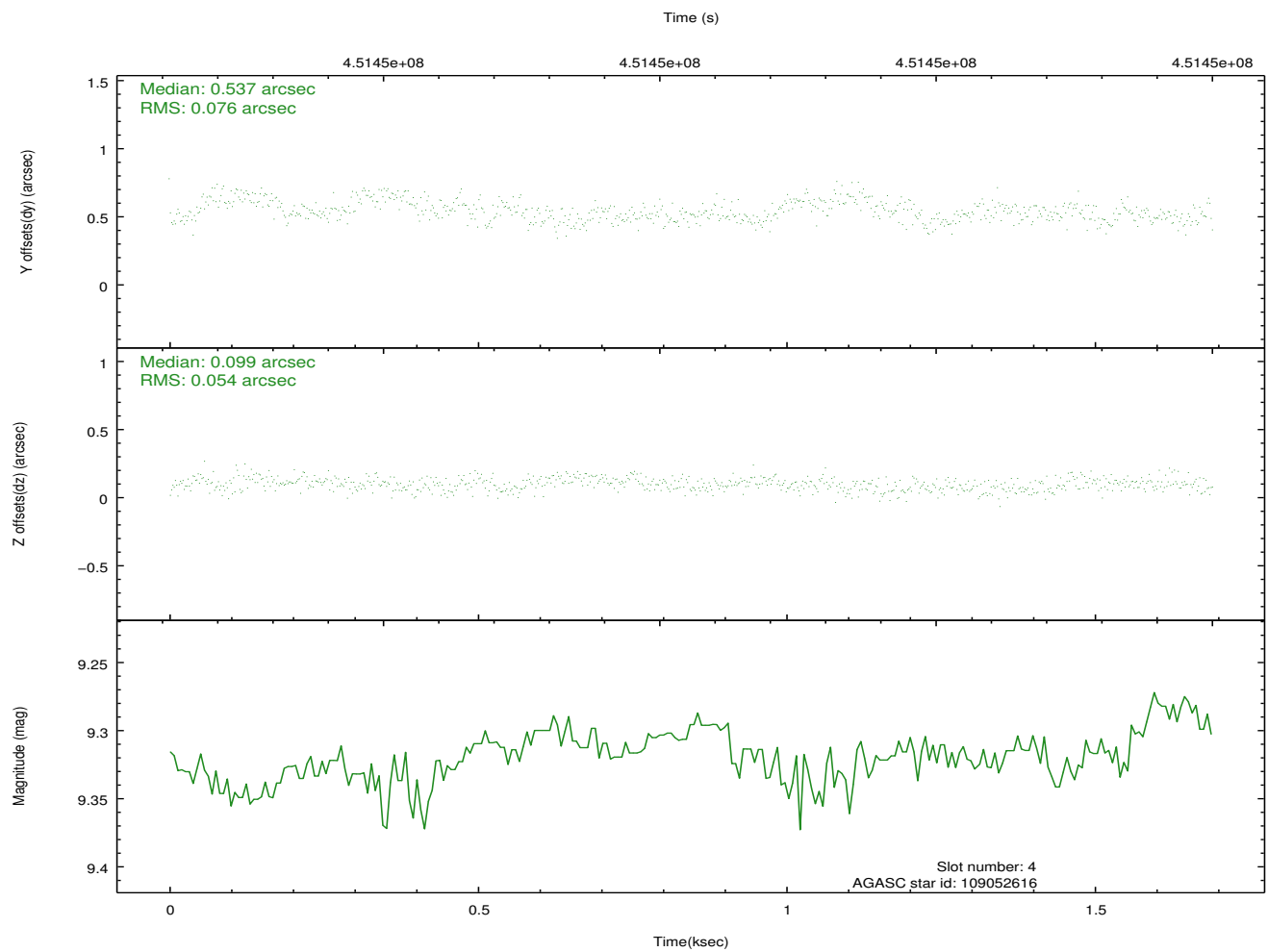
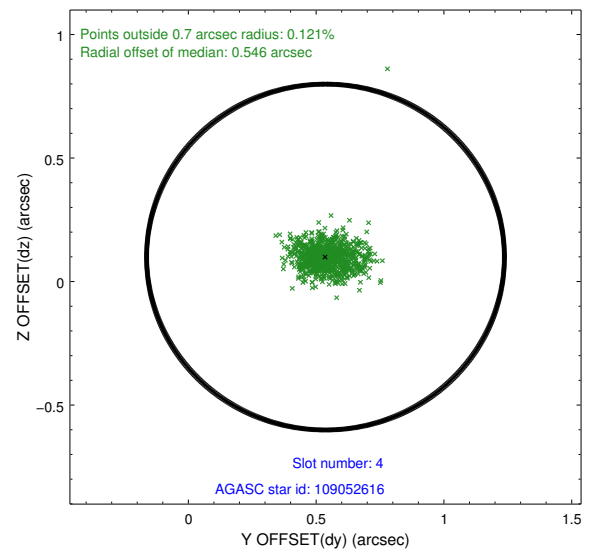
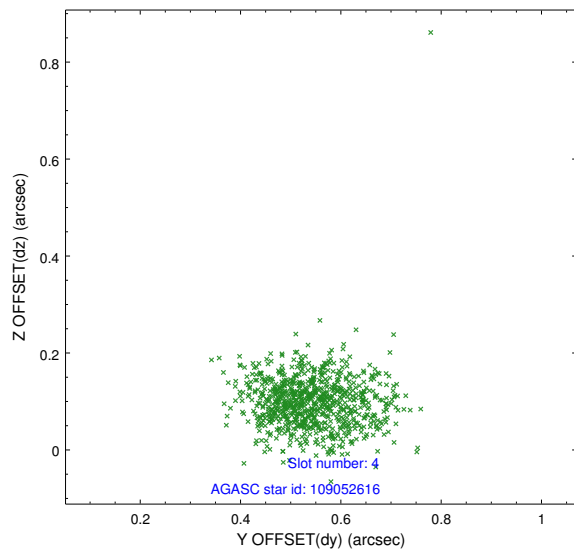
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	413	-0.049	-0.033	0.006	0.011	0.000000	0.000000	-763.47	-1735.15
1	FID	ACIS-S-4	7.00	413	0.169	0.033	0.005	0.013	0.000000	0.000000	2148.28	169.31
2	FID	ACIS-S-5	7.03	413	-0.151	0.010	0.006	0.011	0.000000	0.000000	-1811.38	167.46
3	GUIDE	109052360	8.68	826	-0.149	-0.219	0.076	0.130	149.325082	11.899311	1046.56	-1077.86
4	GUIDE	109052616	9.32	825	0.537	0.099	0.094	0.158	149.751002	11.434226	2110.97	903.48
5	GUIDE	109053104	8.28	826	-0.073	0.115	0.068	0.112	149.437159	12.411083	-817.52	-1332.28
6	GUIDE	109057776	8.57	826	-0.229	0.129	0.078	0.128	150.127225	11.781171	480.66	1722.49
7	GUIDE	109053040	7.67	824	-0.094	-0.119	0.081	0.125	150.482956	12.245797	-1518.99	2328.18

## 2.4 Star Slots

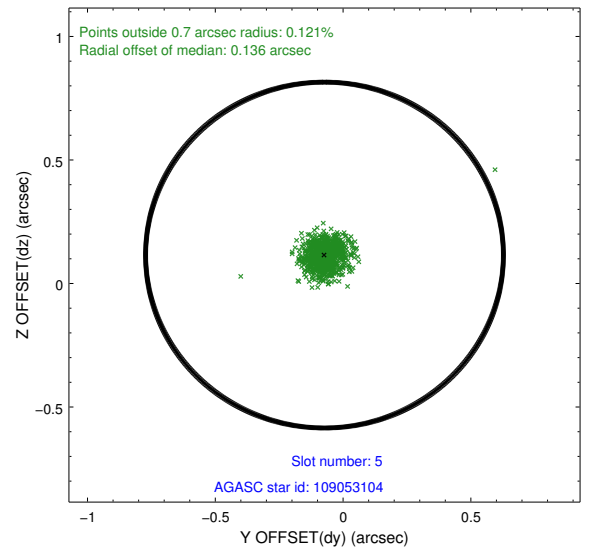
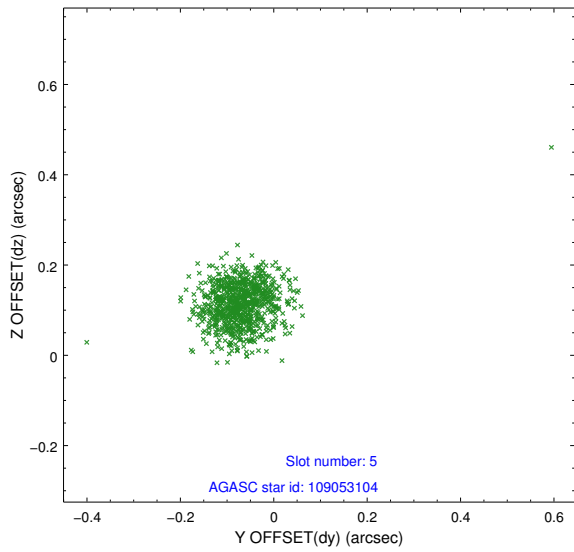
### 2.4.1 Slot 3



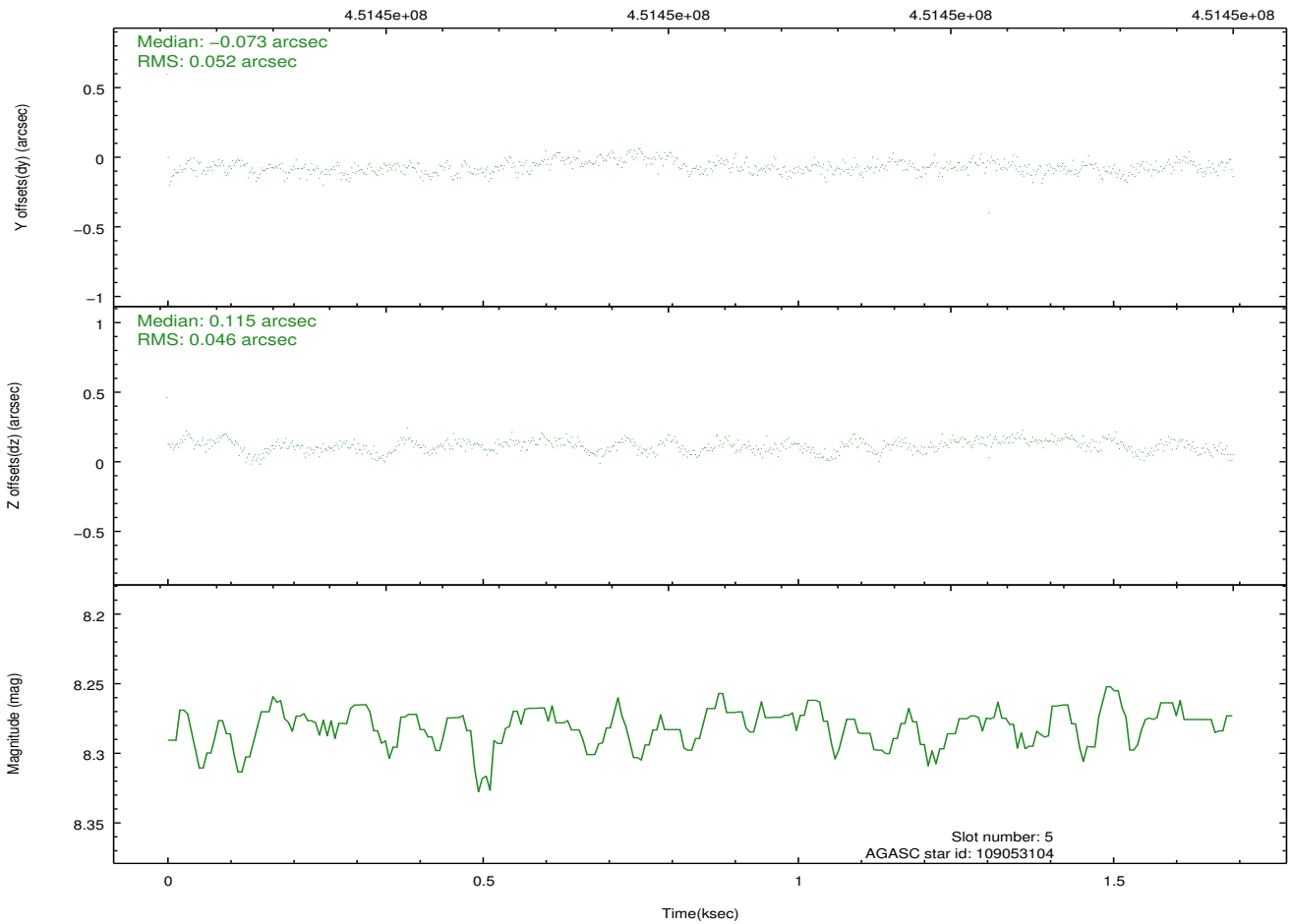
## 2.4.2 Slot 4



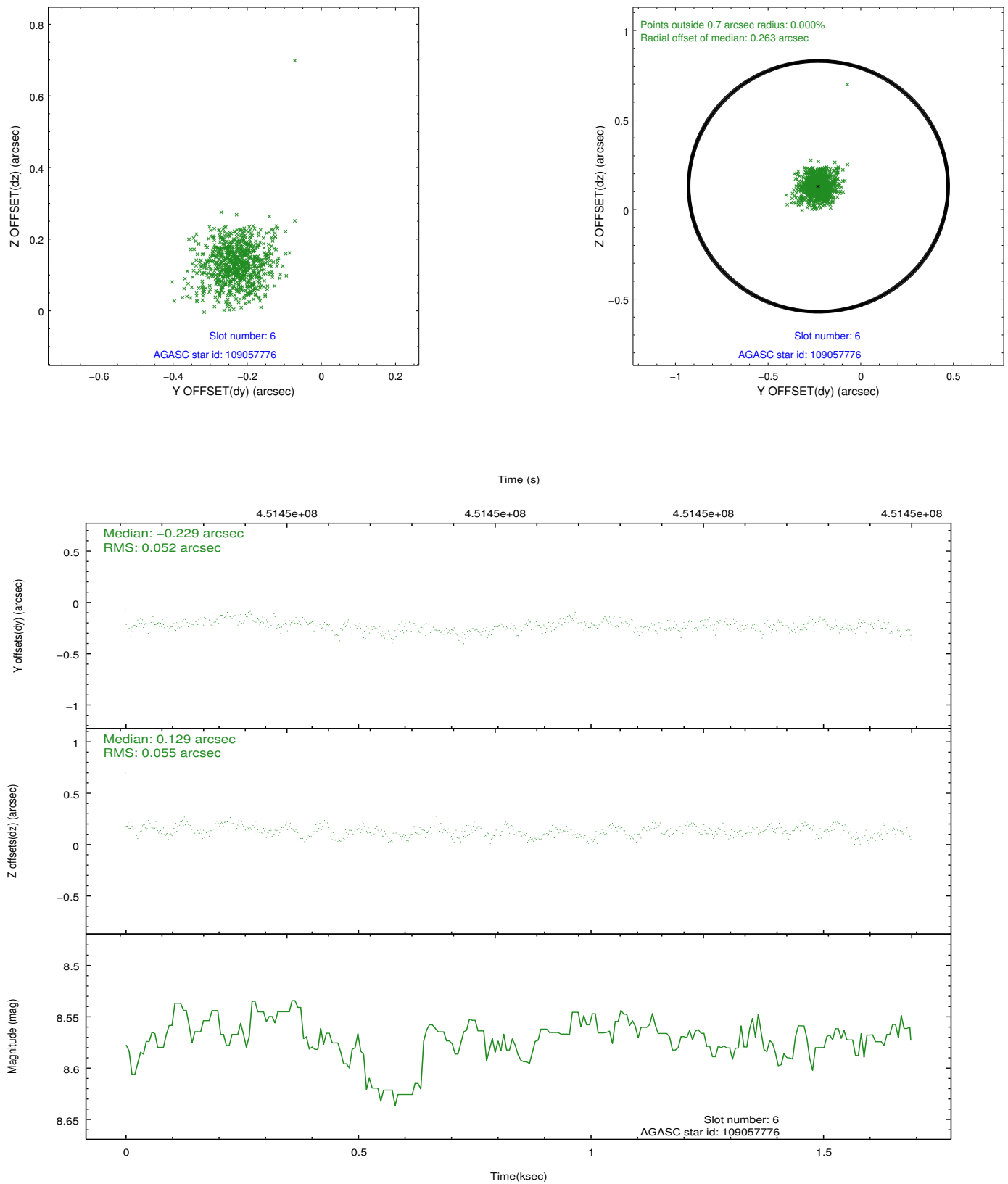
### 2.4.3 Slot 5



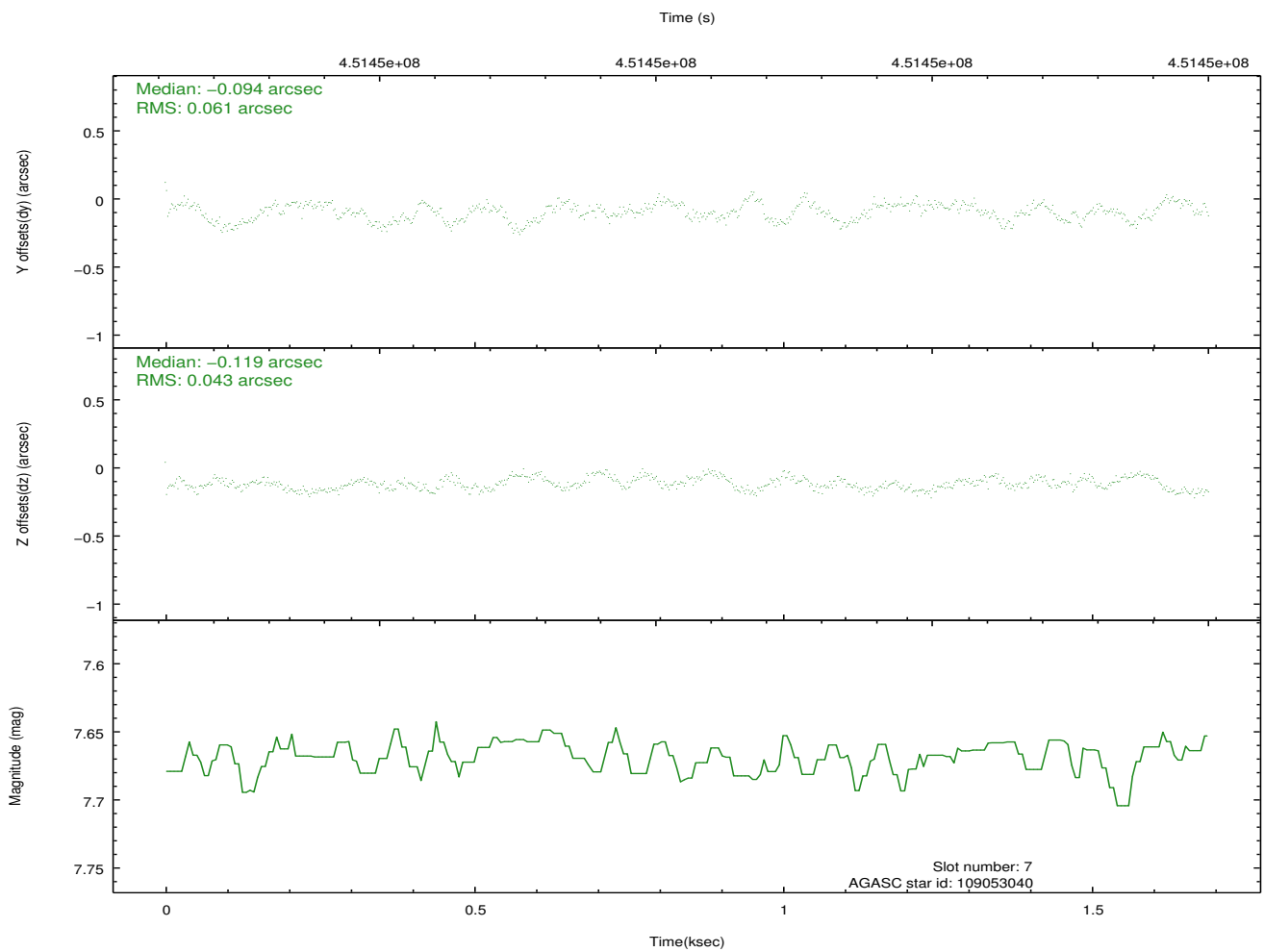
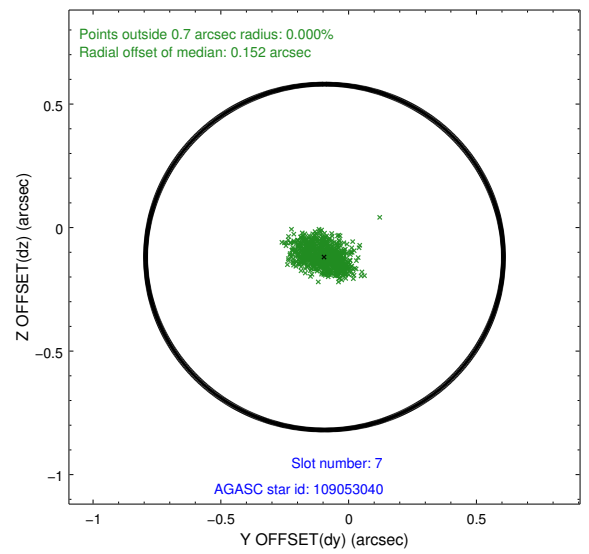
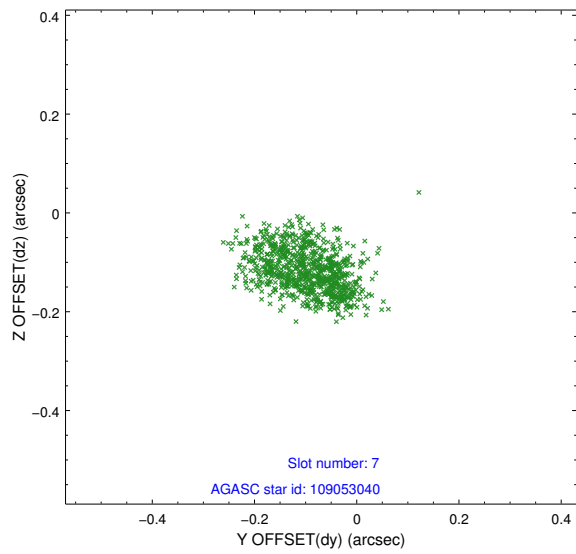
Time (s)



## 2.4.4 Slot 6

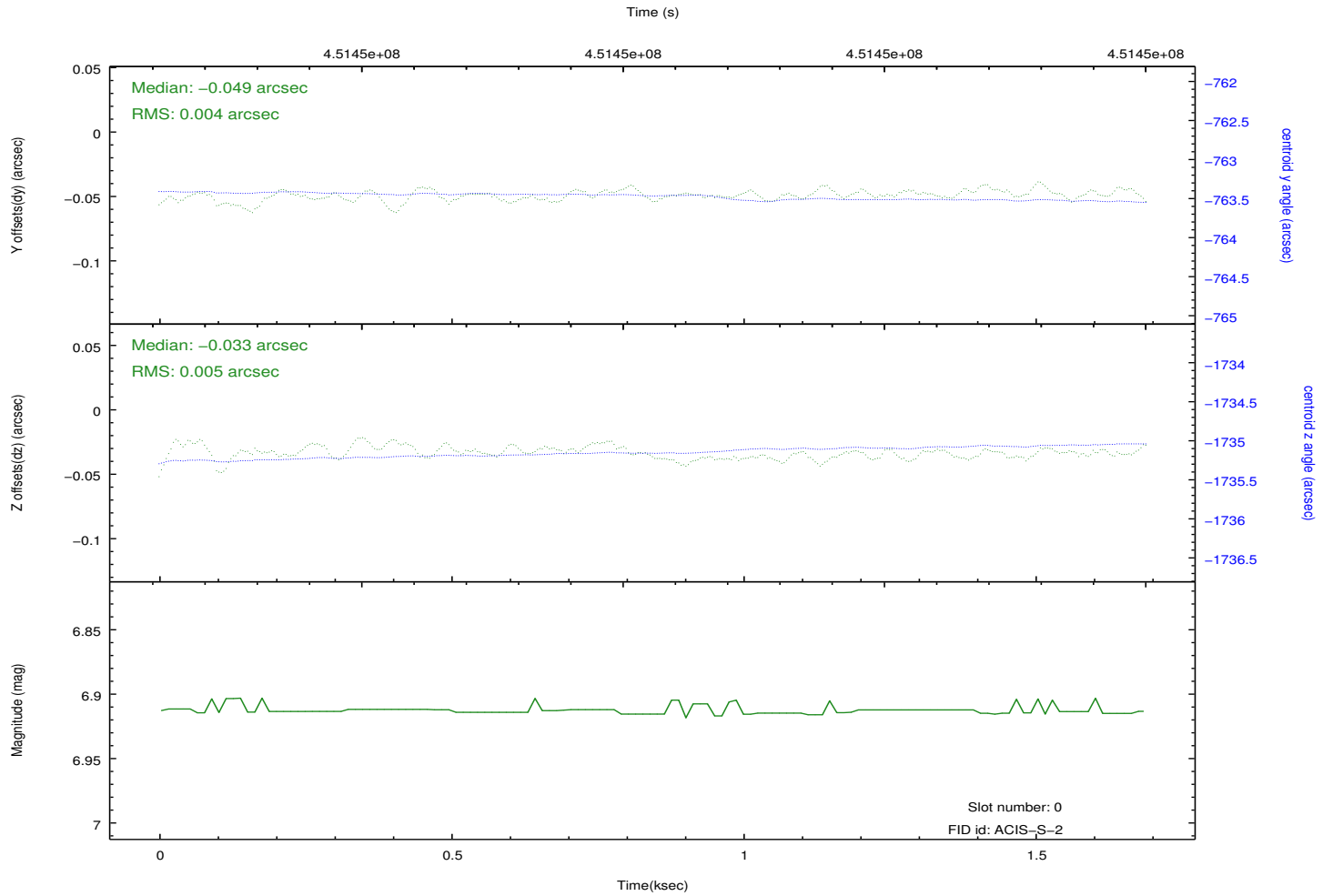
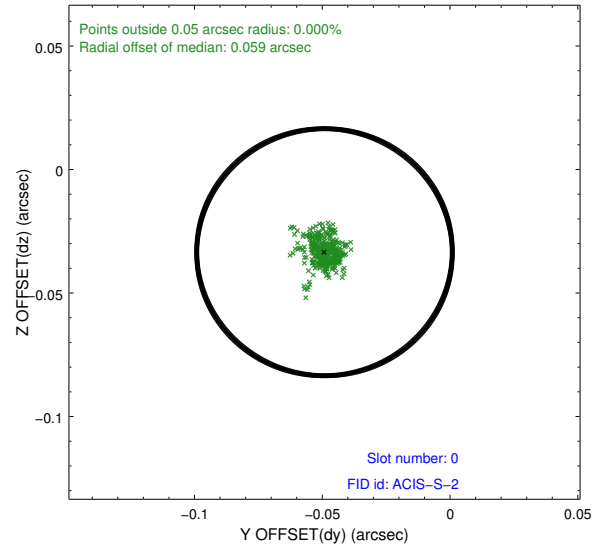
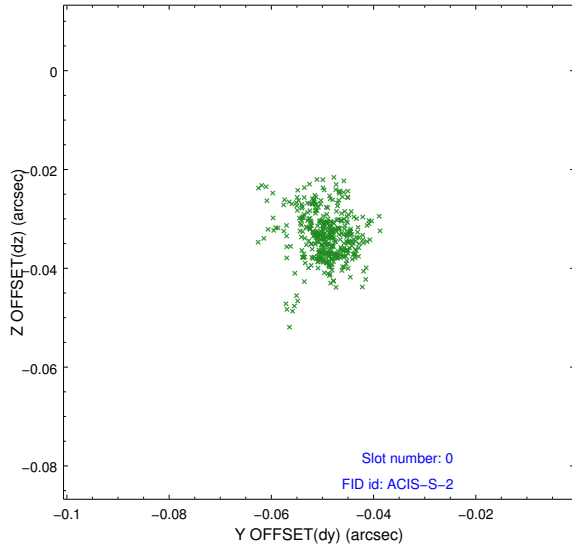


## 2.4.5 Slot 7

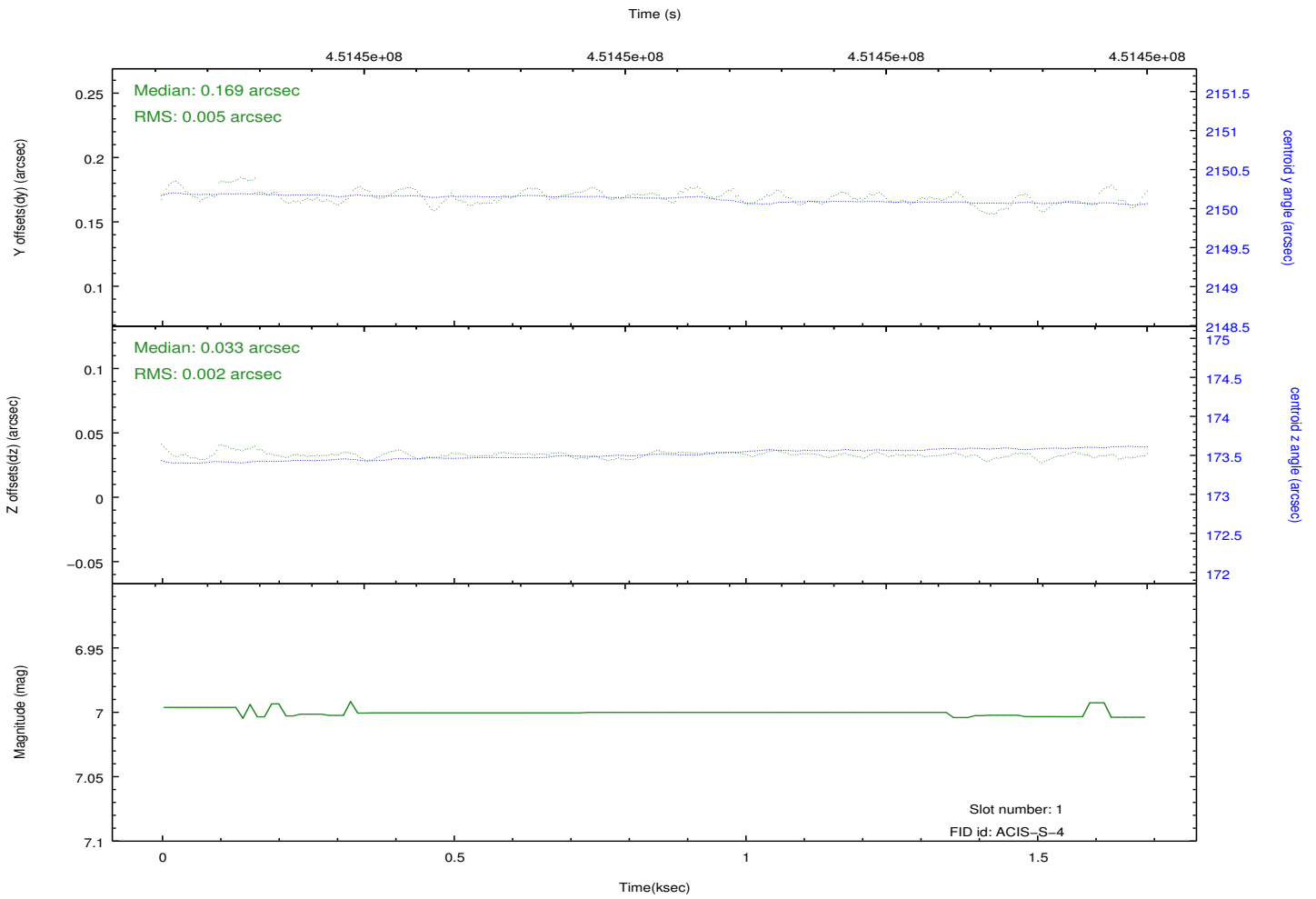
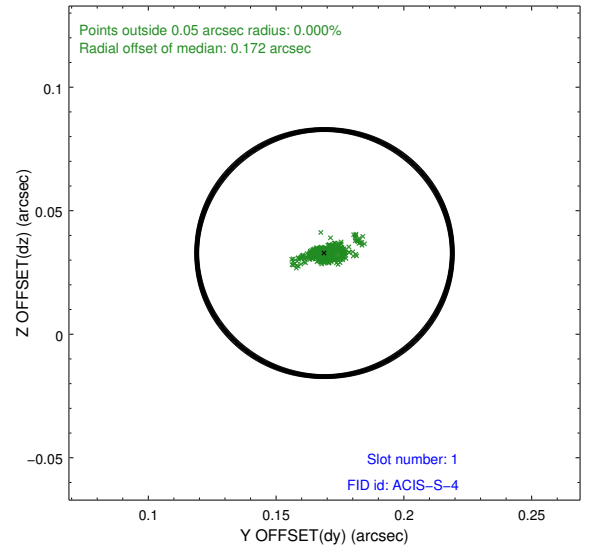
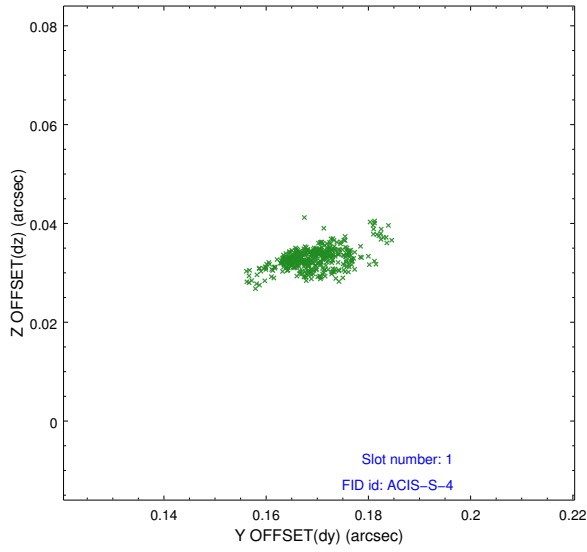


## 2.5 FID Slots

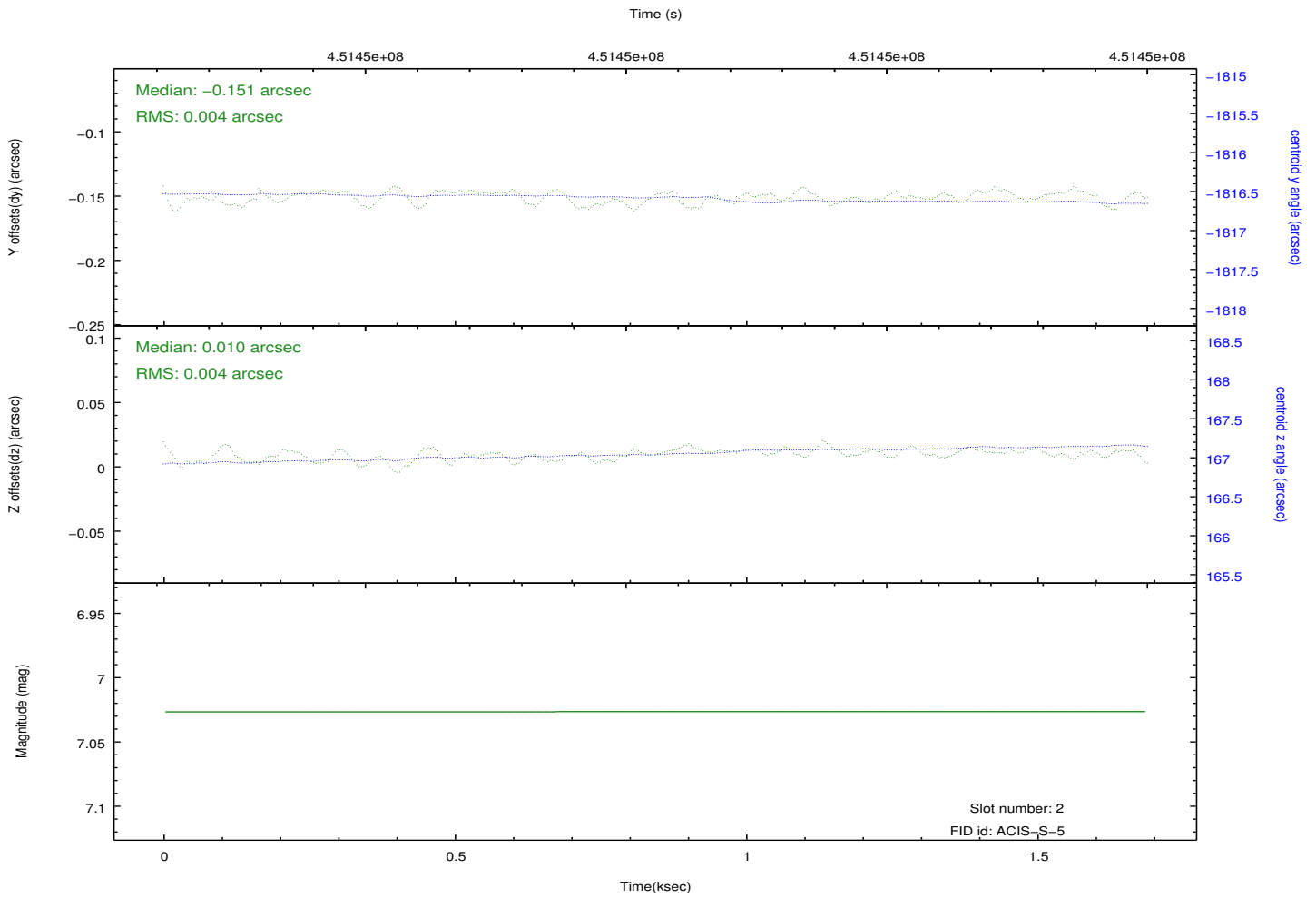
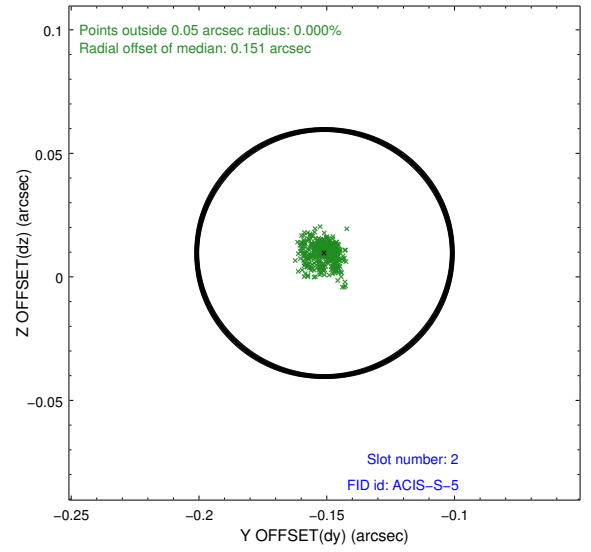
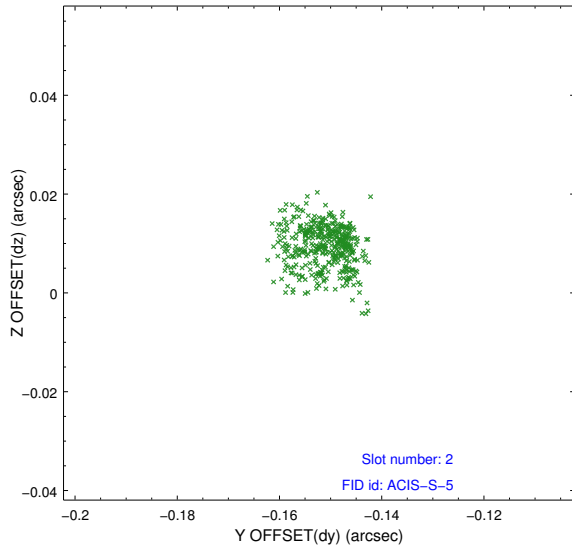
### 2.5.1 Slot 0



## 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)	2012.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.5803882966638

## A.2 Comments