

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 18108 - L2 Version 1  
Chandra X-Ray Center

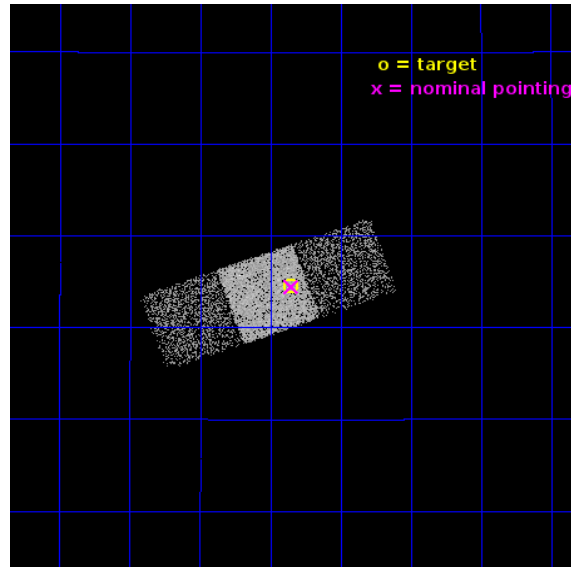
L2 Processing Date : May 12 2016

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# 1 Front

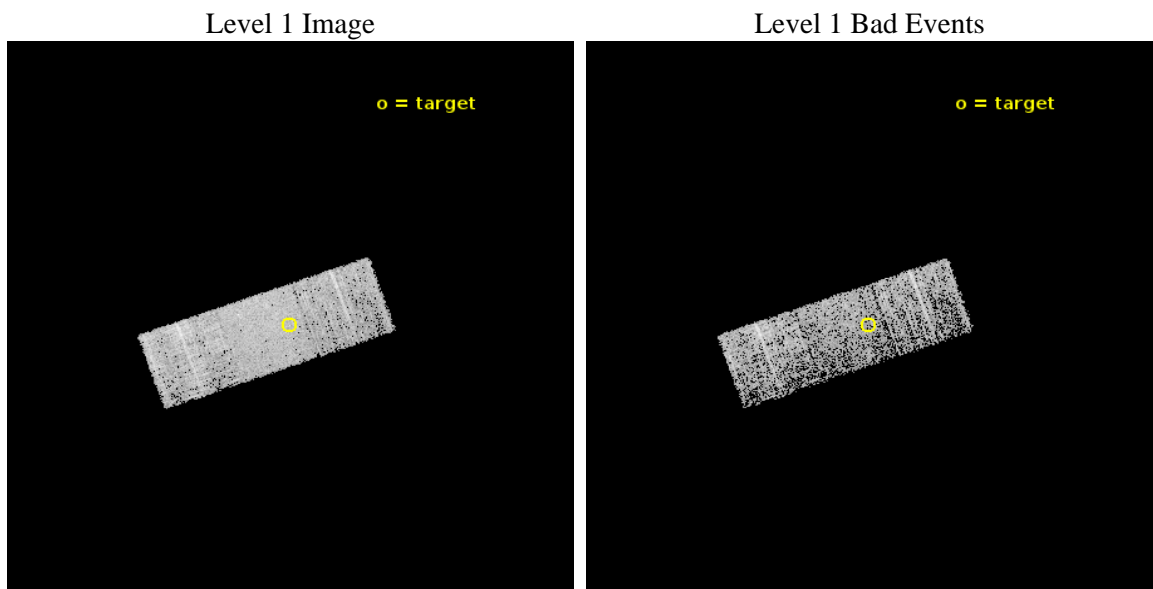
seq_num	703174	Sequence number
obs_id	18108	Observation id
title	Bridging the Gap Between Weak-Line and Typical Quasars	Proposal ti
observer	William Brandt	Principal investigator
object	SDSS J1556+1124	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.08875	Observer's specified target RA [deg]
dec_targ	11.409222	Observer's specified target Dec [deg]
ra_nom	239.08733966031	Nominal RA [deg]
dec_nom	11.40724771291	Nominal Dec [deg]
roll_nom	160.50485863611	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3112.1456011534	Sum of GTIs [s]
livetime	3071.483127746	Livetime [s]
ontime6	3112.1045612097	Sum of GTIs [s]
ontime7	3112.1456011534	Sum of GTIs [s]
ontime8	3112.0635211468	Sum of GTIs [s]
l2events	14595	Number of level 2 events



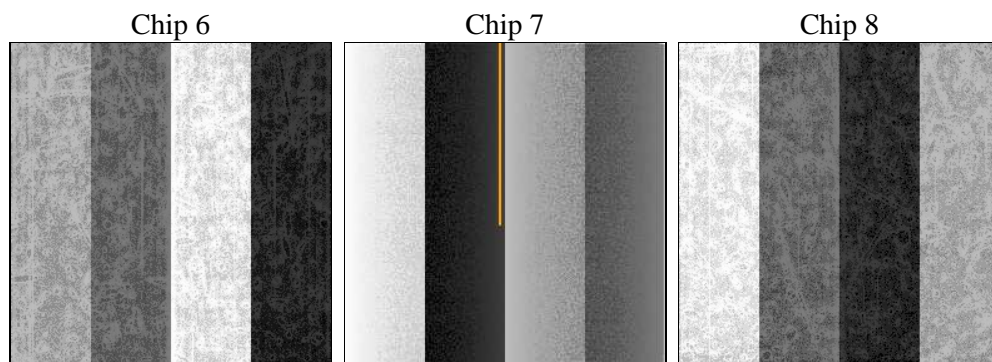
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	3112.1456011534	Sum of GTIs [s]
caldsver	4.7.1	&#160	ontime6	3112.1045612097	Sum of GTIs [s]
date	2016-05-12T06:24:19	Date and time of file creation	ontime7	3112.1456011534	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3112.0635211468	Sum of GTIs [s]
			l1events	71243	Number of level 1 events

### 2.1.4 Events

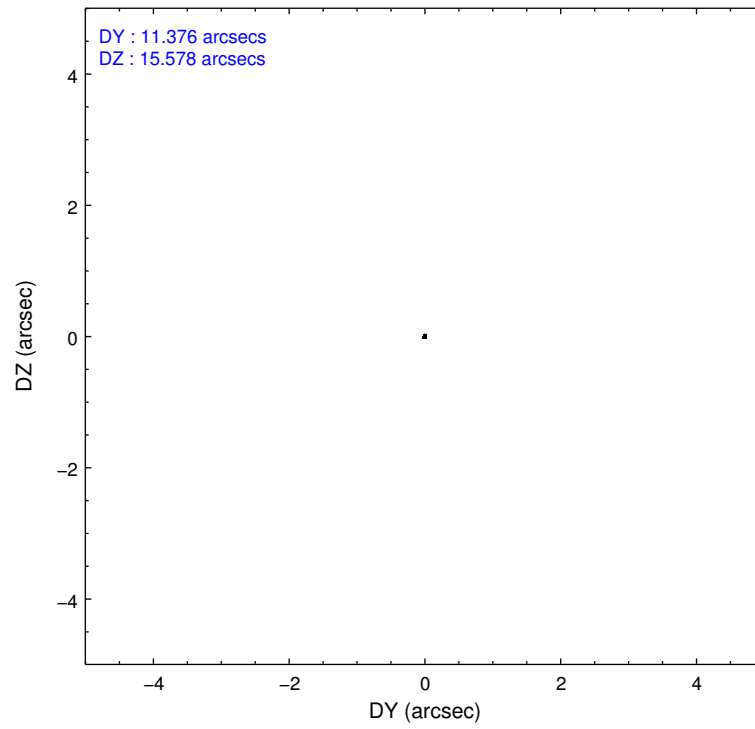
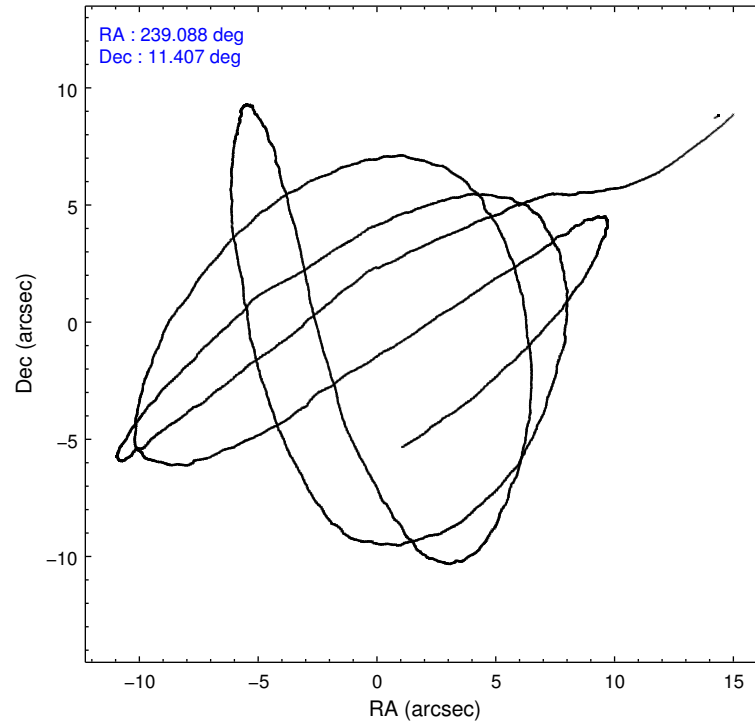
	ccd 6	ccd 7	ccd 8
level 1 events	19811	25613	25819
rejected events	17567	14772	19195
rejected %	88%	57%	74%

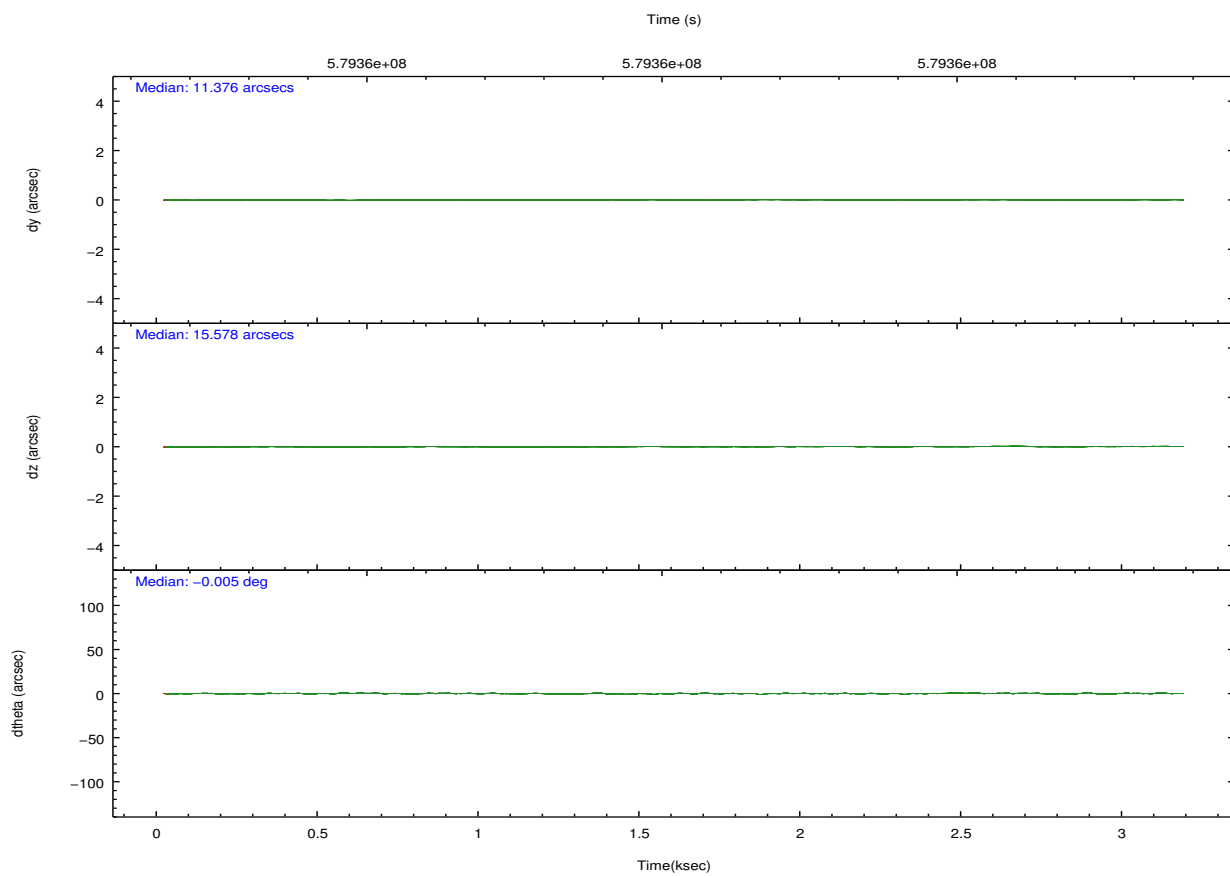
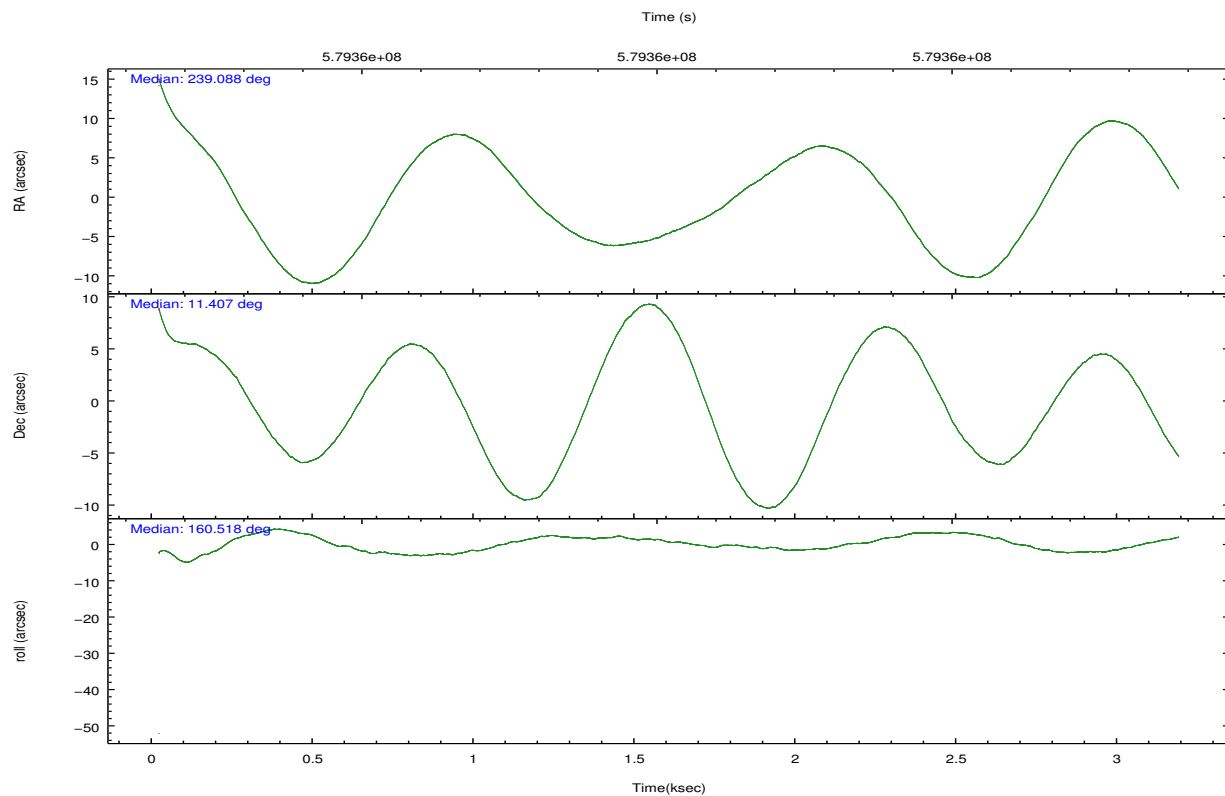
	ccd 6	ccd 7	ccd 8
grade 0 events	731	793	1873
	3%	3%	7%
grade 1 events	11	32	21
	0%	0%	0%
grade 2 events	529	2359	1694
	2%	9%	6%
grade 3 events	209	819	645
	1%	3%	2%
grade 4 events	241	849	641
	1%	3%	2%
grade 5 events	903	2410	1393
	4%	9%	5%
grade 6 events	535	6030	1797
	2%	23%	6%
grade 7 events	16652	12321	17755
	84%	48%	68%

## 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	239.114664	239.0873396603127	Subarray requested	NONE	NONE
[deg] Pointing Dec	11.412520	11.40724771291029	Alternating exposures requested	N	N
[deg] Pointing Roll	160.342801	160.5048586361089	[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)	579357633.184000	579356423.66046			
Observation start date	2016-05-11T12:39:25	2016-05-11T12:20:23			
[s] Observation end time (MET)	579360633.184000	579361392.34824			
Observation end date	2016-05-11T13:29:25	2016-05-11T13:43:12			
Read mode	TIMED	TIMED			

## 2.3 Aspect





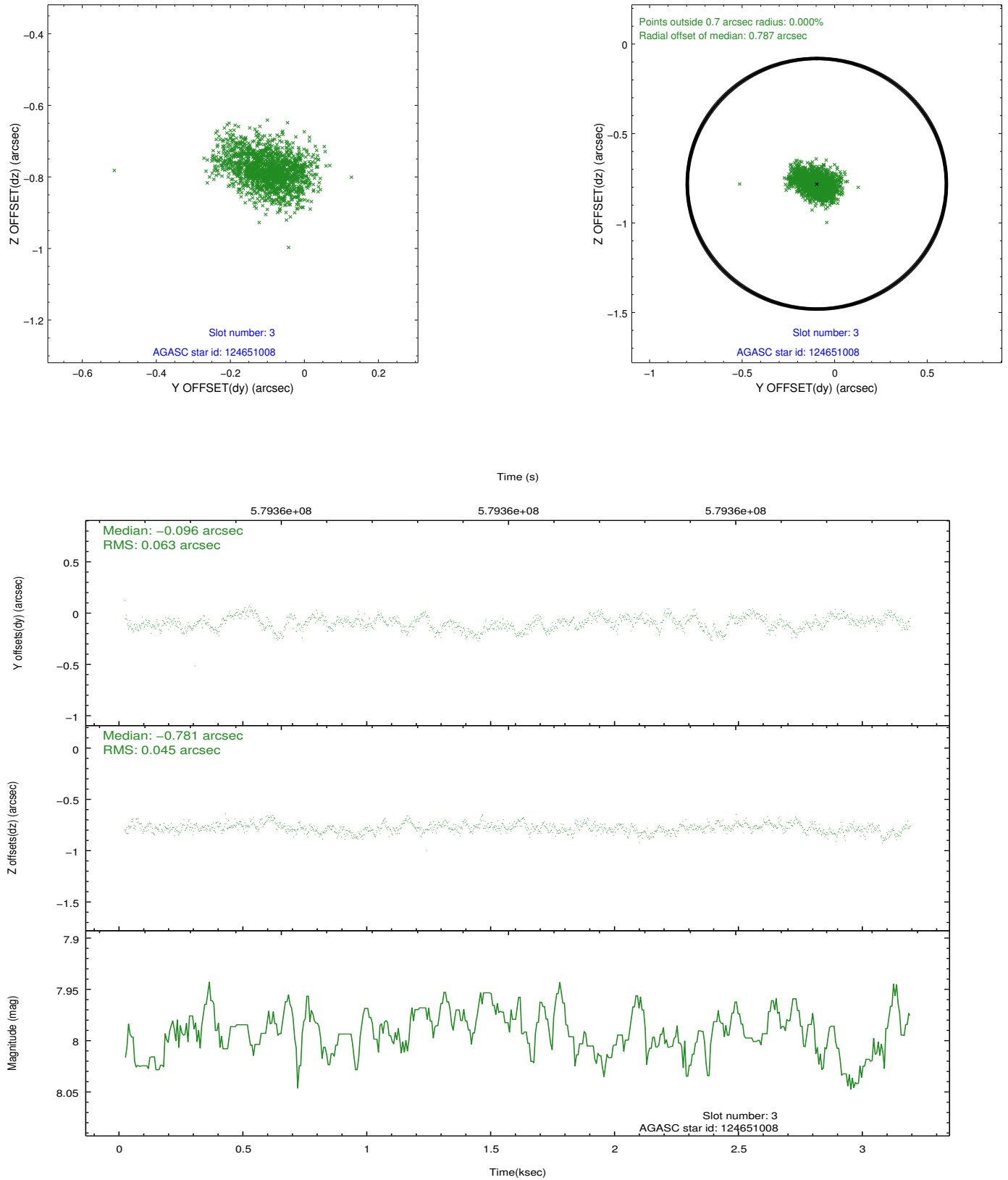
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	774	-0.150	-0.042	0.007	0.011	0.000000	0.000000	-764.36	-1736.98
1	FID		ACIS-S-4	7.24	774	0.359	0.084	0.006	0.011	0.000000	0.000000	2148.47	169.61
2	FID		ACIS-S-5	7.24	774	-0.240	-0.033	0.007	0.011	0.000000	0.000000	-1814.76	165.36
3	GUIDE	used	124651008	7.99	1547	-0.096	-0.781	0.083	0.138	238.704325	11.515304	1489.02	137.05
4	GUIDE	used	124653552	8.55	1546	-0.053	0.546	0.104	0.158	238.737223	11.805100	1729.61	-882.58
5	GUIDE	used	124657408	7.86	1547	0.045	0.237	0.075	0.127	239.037594	11.641330	535.15	-684.11
6	GUIDE	used	124785104	8.15	1546	0.160	-0.134	0.077	0.121	239.552032	11.715862	-1082.88	-1547.77
7	GUIDE	used	124785440	8.30	1546	-0.053	0.132	0.082	0.131	239.655683	11.613836	-1552.16	-1325.78

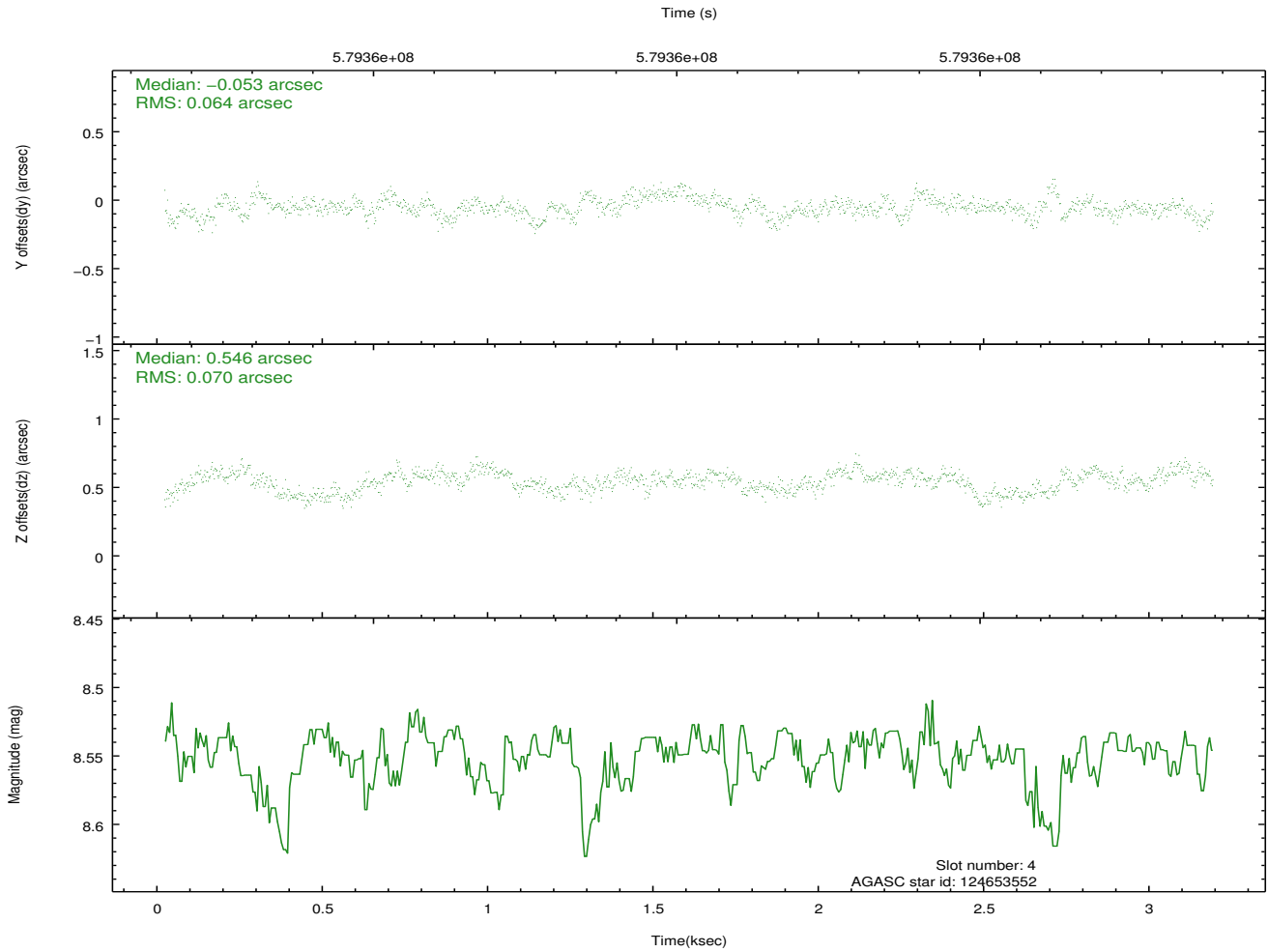
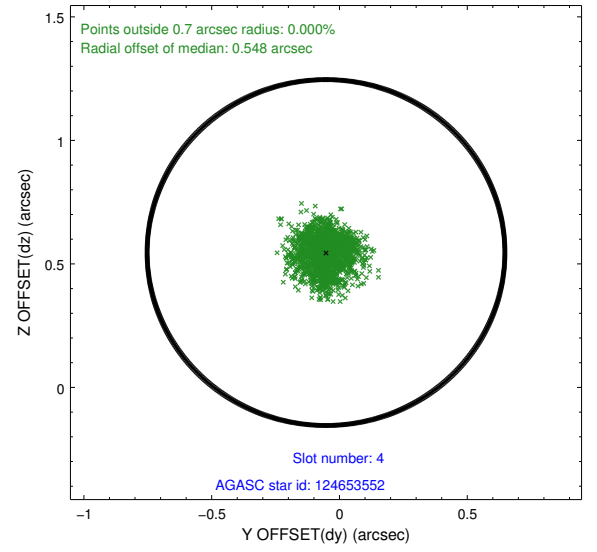
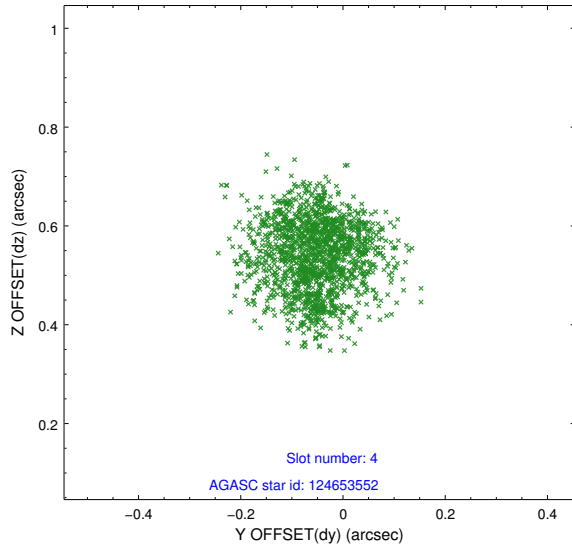


## 2.4 Star Slots

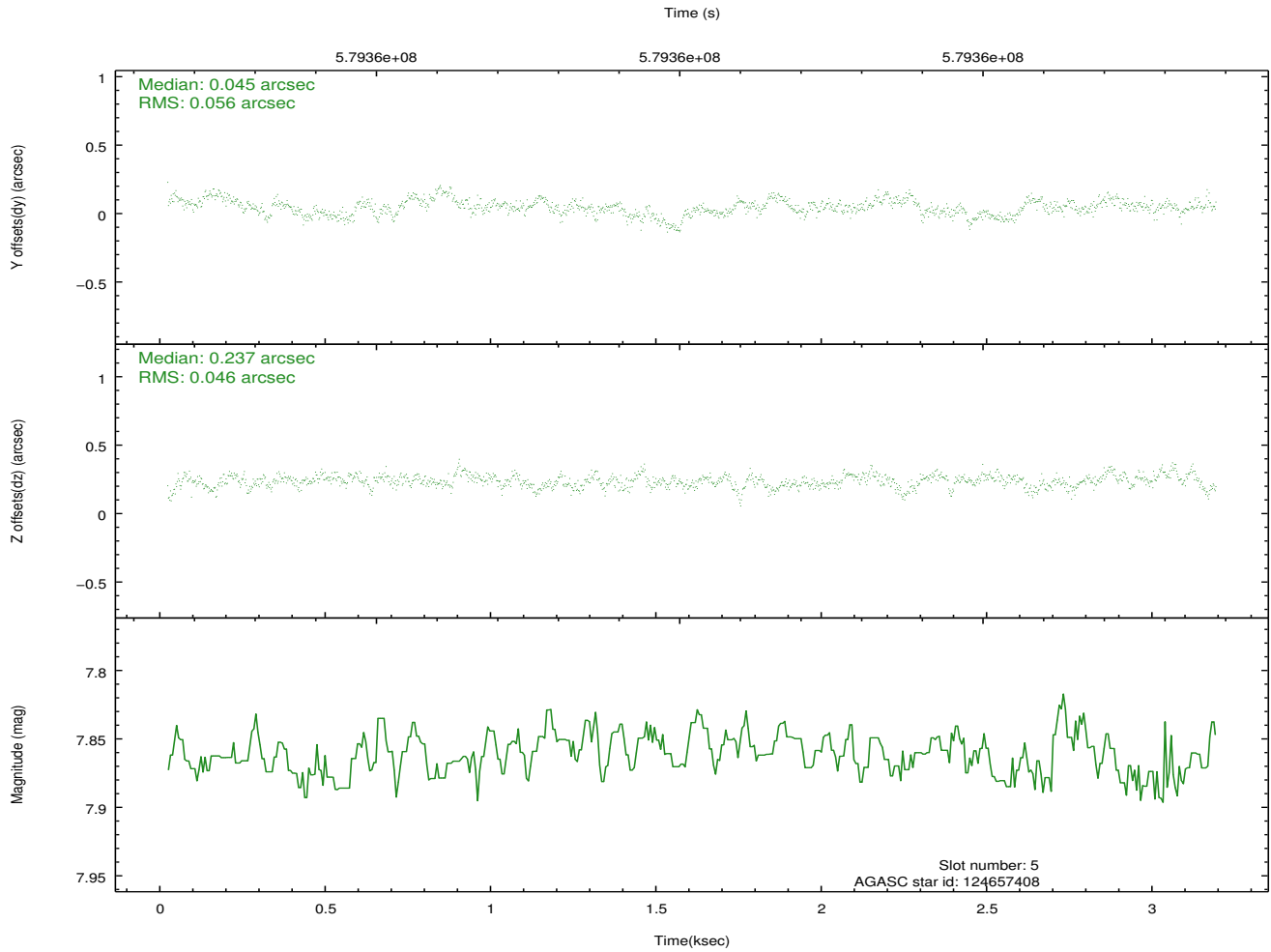
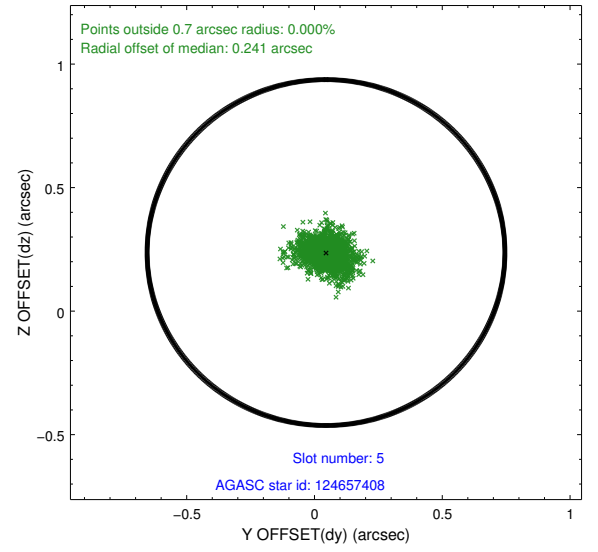
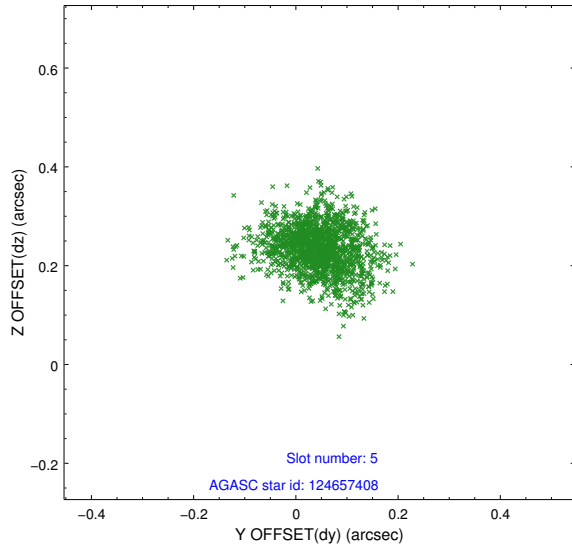
### 2.4.1 Slot 3



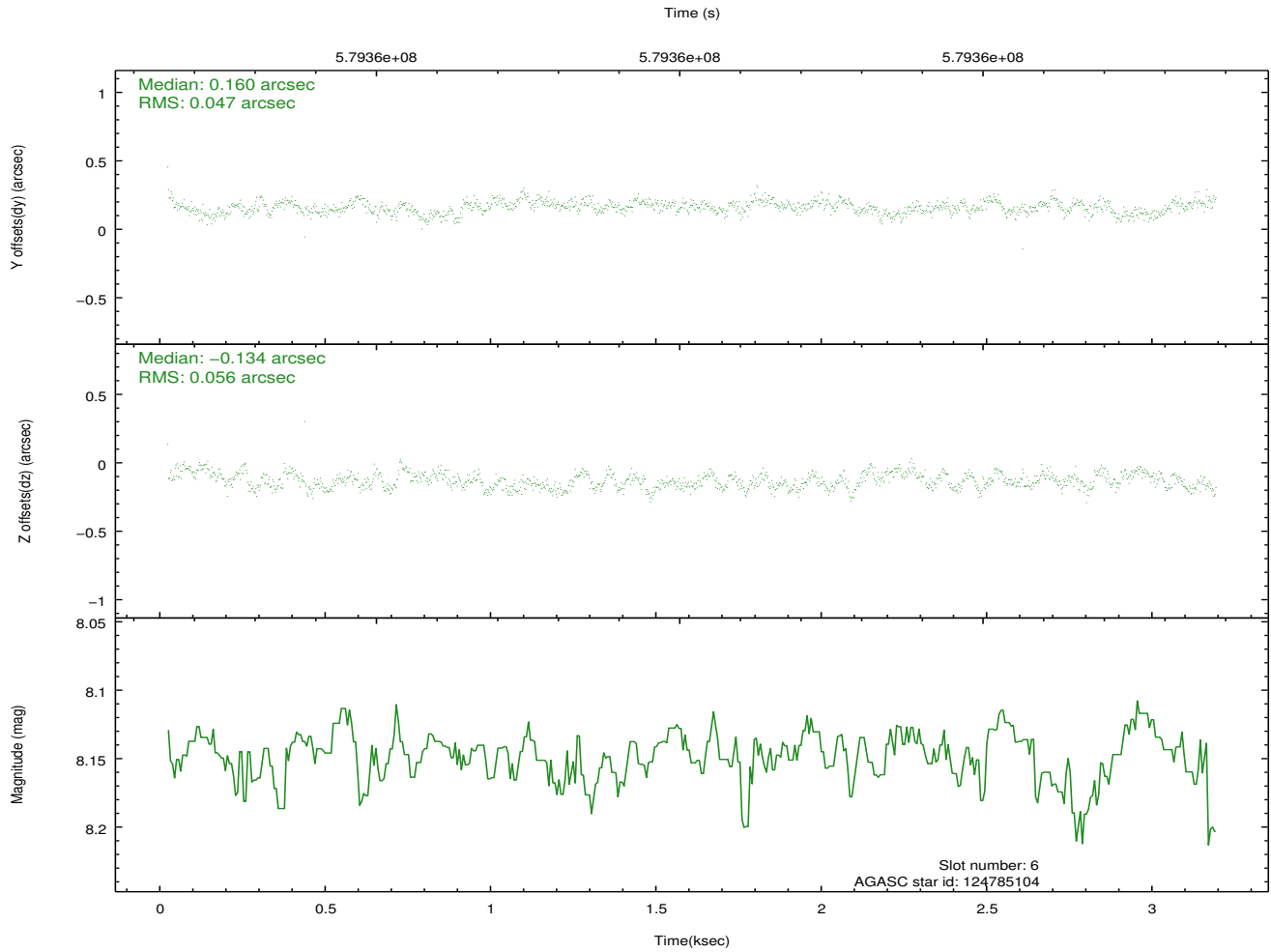
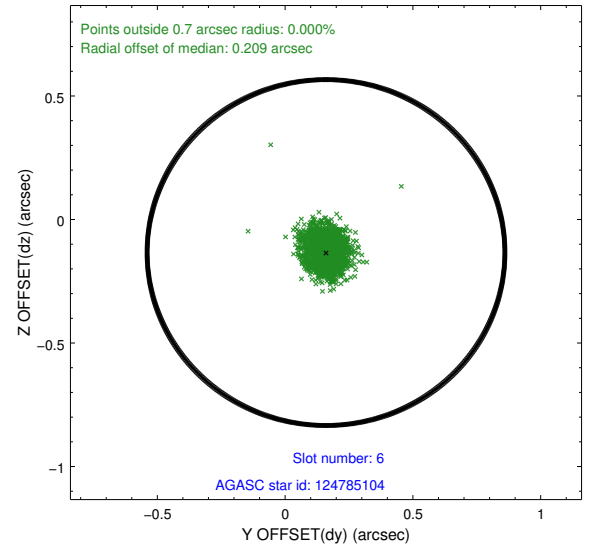
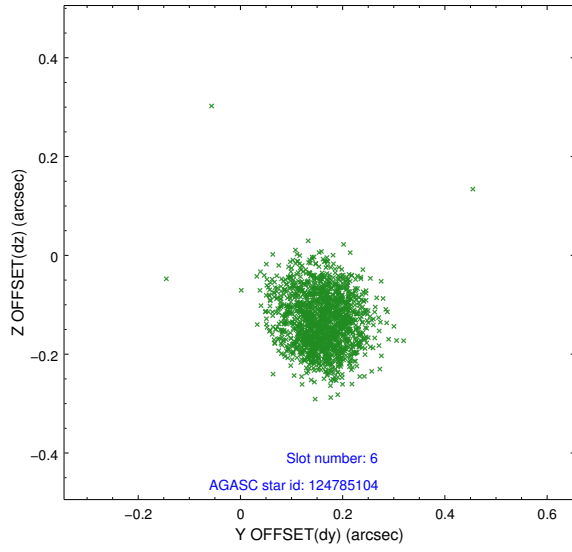
## 2.4.2 Slot 4



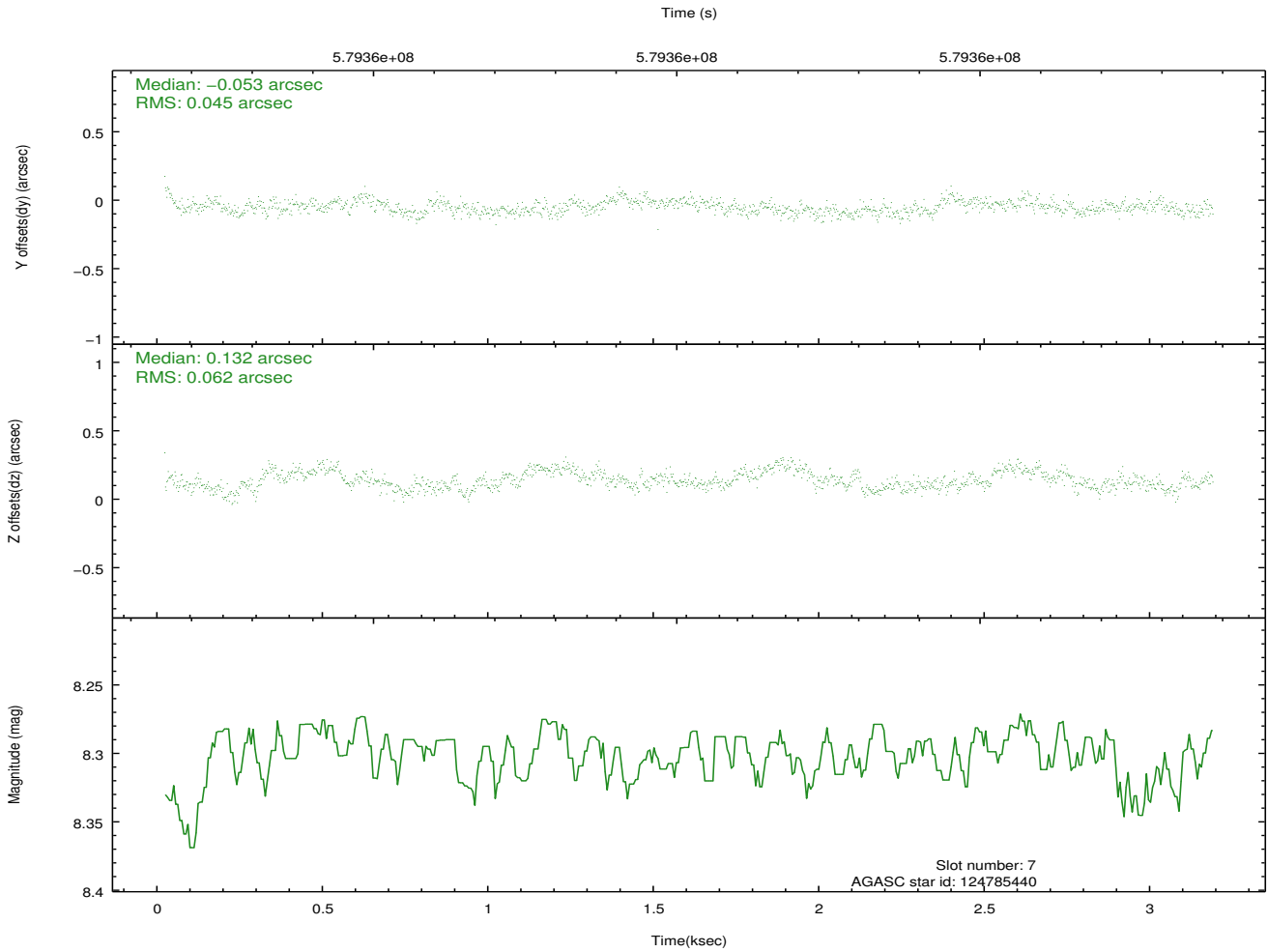
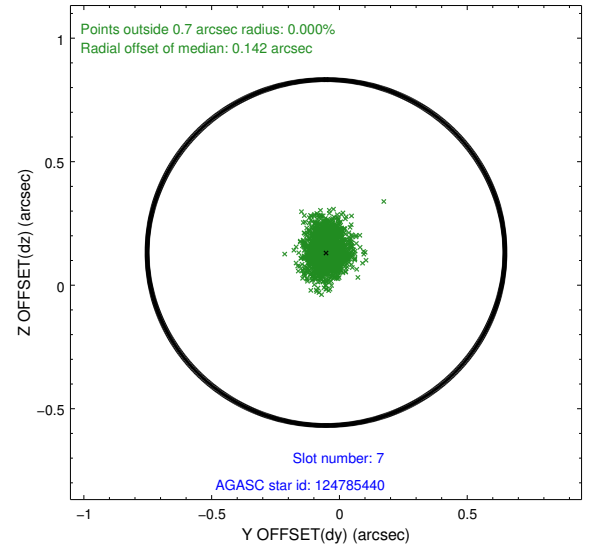
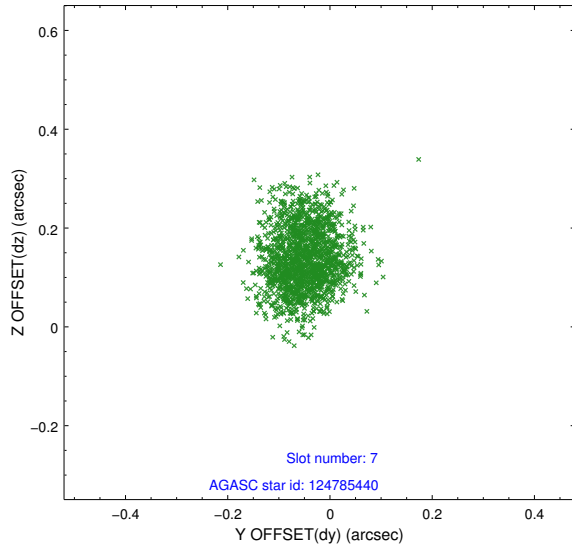
### 2.4.3 Slot 5



## 2.4.4 Slot 6

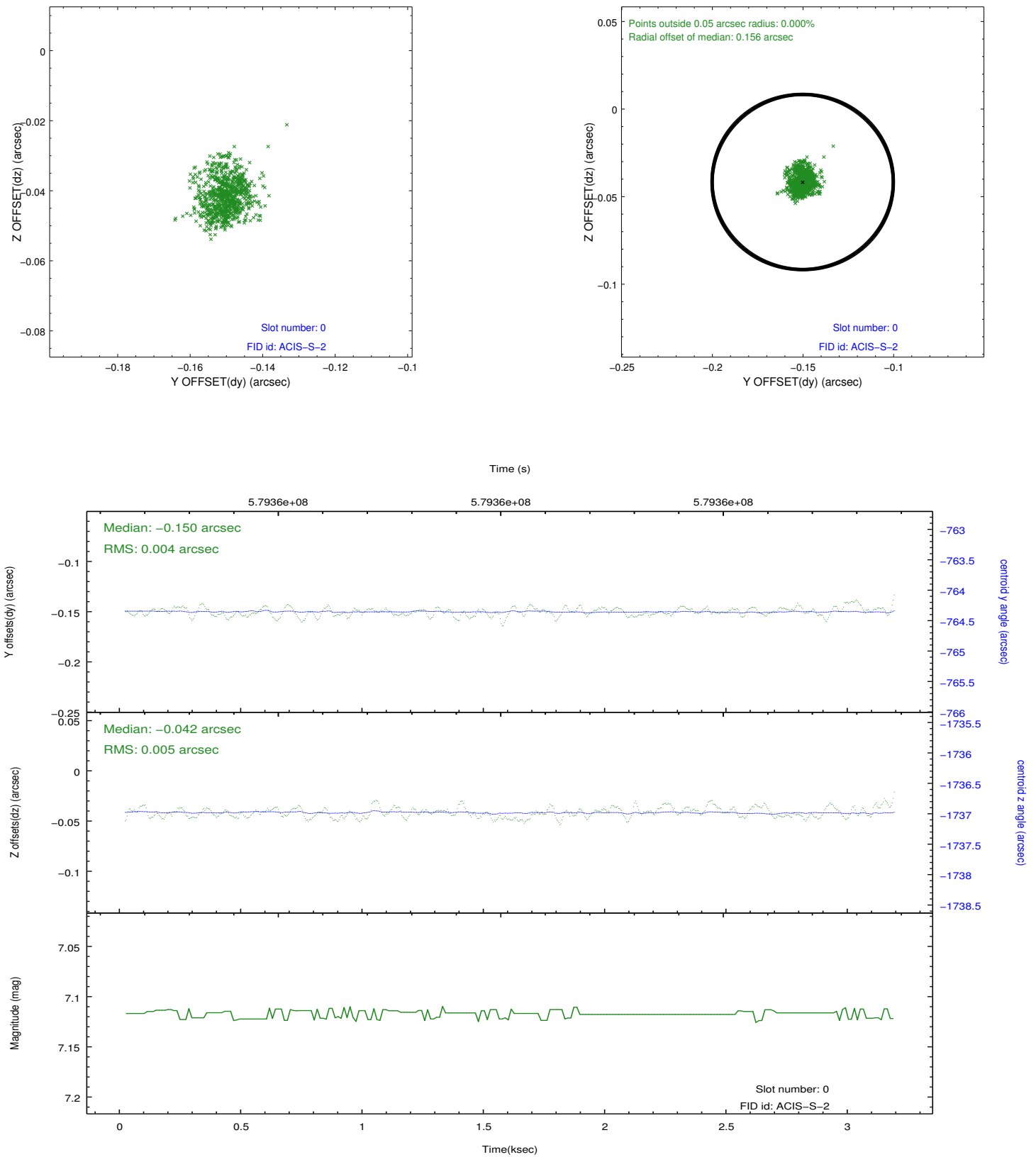


## 2.4.5 Slot 7

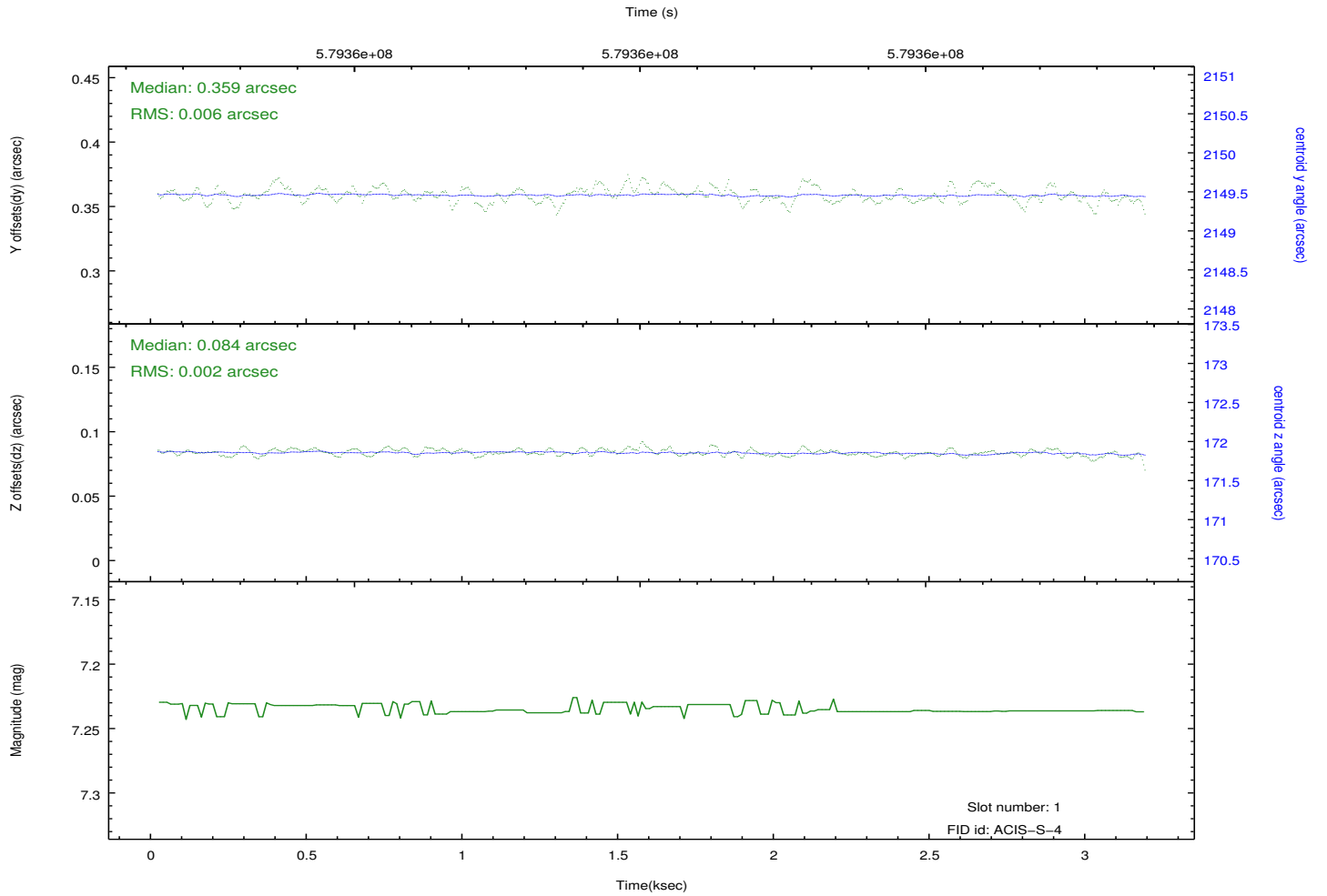
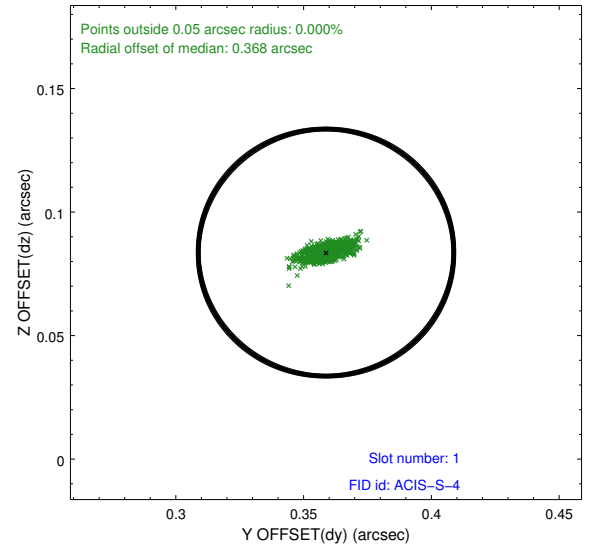
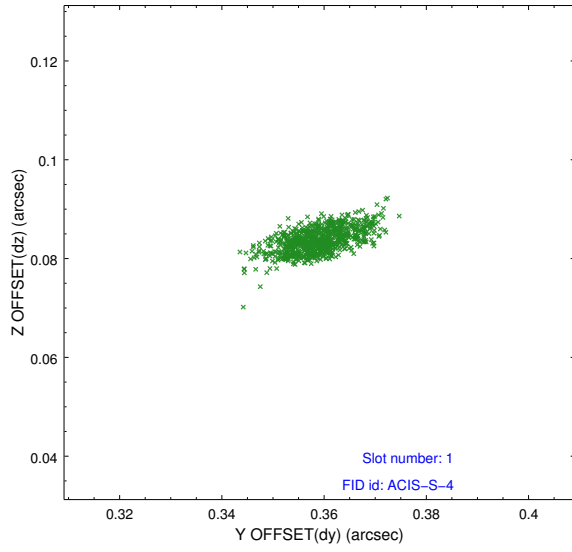


## 2.5 FID Slots

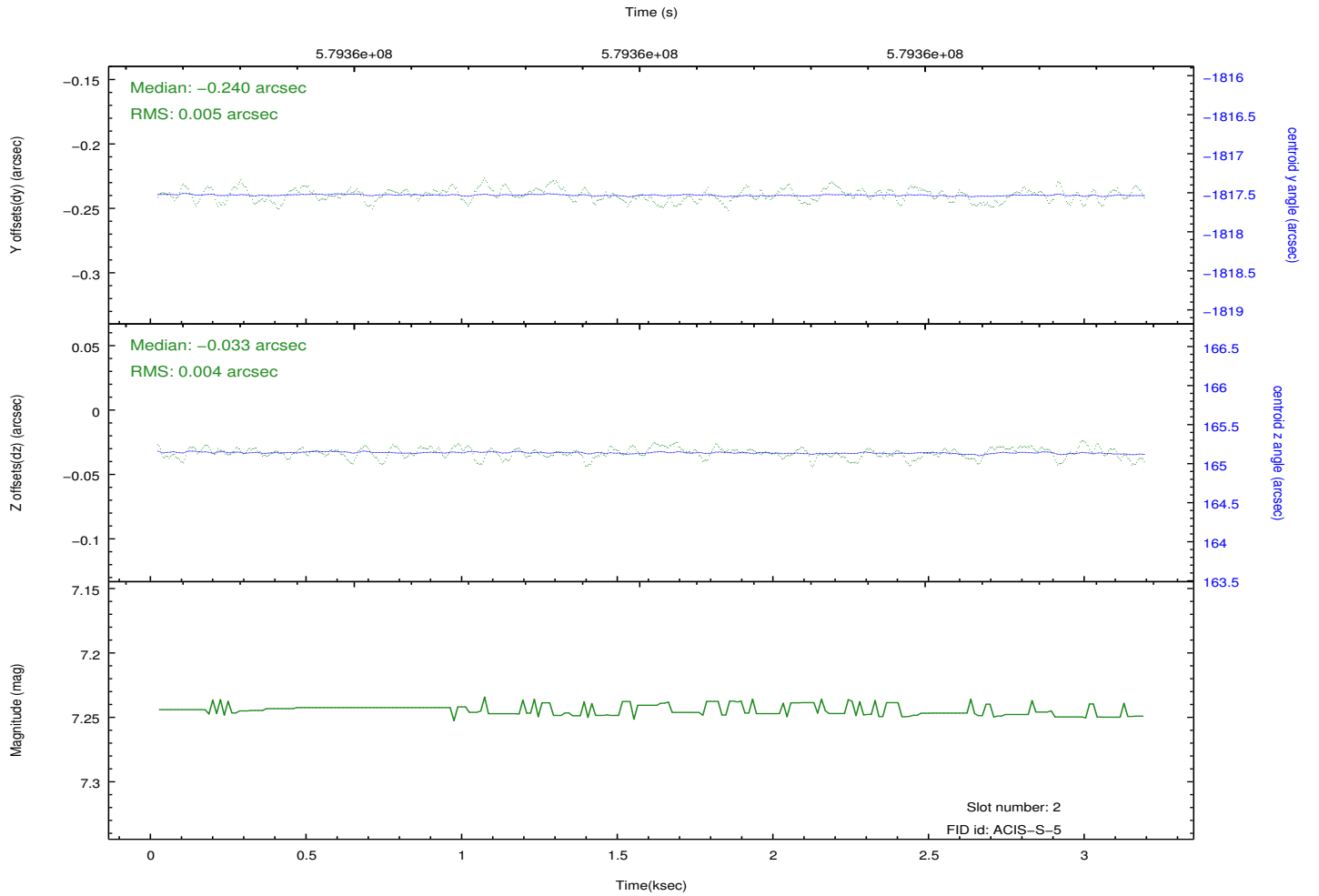
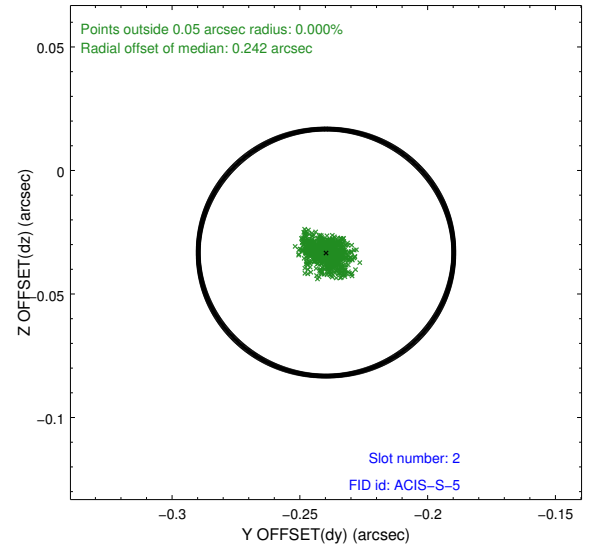
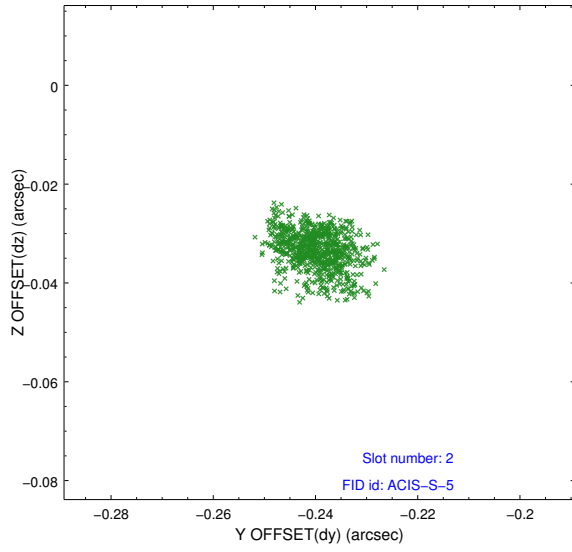
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.05.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1121456011534

### A.2 Comments