

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6821 - L2 Version 2  
Chandra X-Ray Center

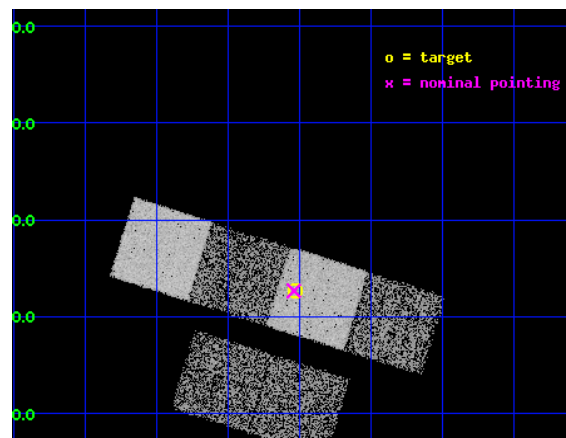
L2 Processing Date : Mar 24 2012

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# 1 Front

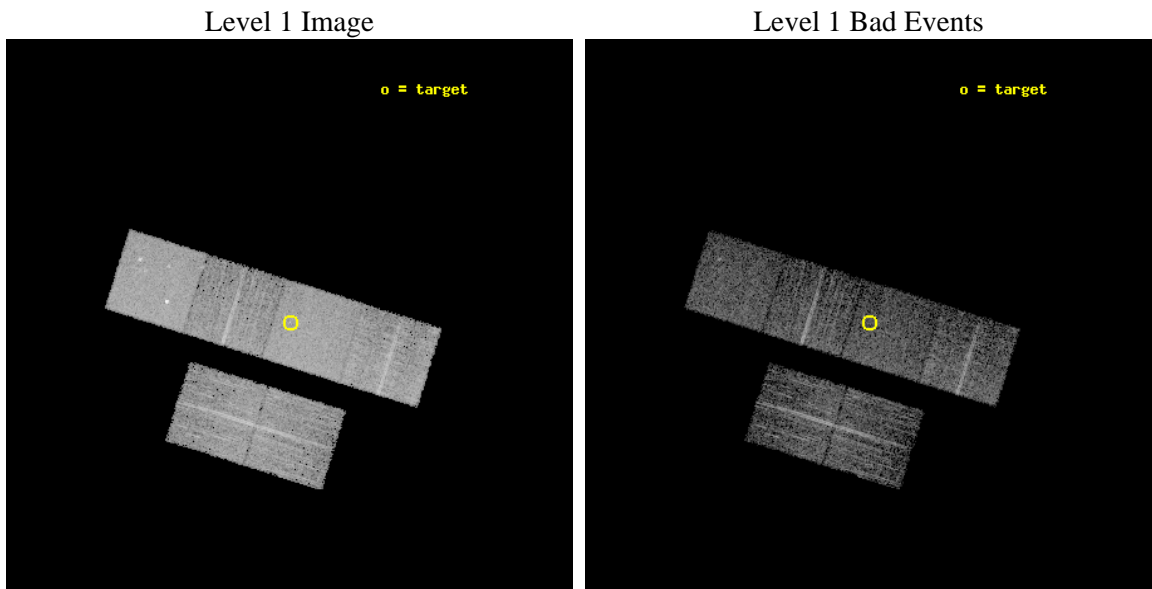
seq_num	701239	Sequence number
obs_id	6821	Observation id
title	Chandra ACIS Snapshot Observations of the Most Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J0942+0422	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	145.508333	Observer's specified target RA [deg]
dec_targ	4.379028	Observer's specified target Dec [deg]
ra_nom	145.51007516806	Nominal RA [deg]
dec_nom	4.3778206035049	Nominal Dec [deg]
roll_nom	17.414481234165	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4124.7999846339	Sum of GTIs [s]
livetime	4072.5692835721	Livetime [s]
ontime2	4124.7999846339	Sum of GTIs [s]
ontime3	4124.7999846339	Sum of GTIs [s]
ontime5	4124.7999846339	Sum of GTIs [s]
ontime6	4121.5590143502	Sum of GTIs [s]
ontime7	4124.7999846339	Sum of GTIs [s]
ontime8	4124.7999846339	Sum of GTIs [s]
l2events	57082	Number of level 2 events



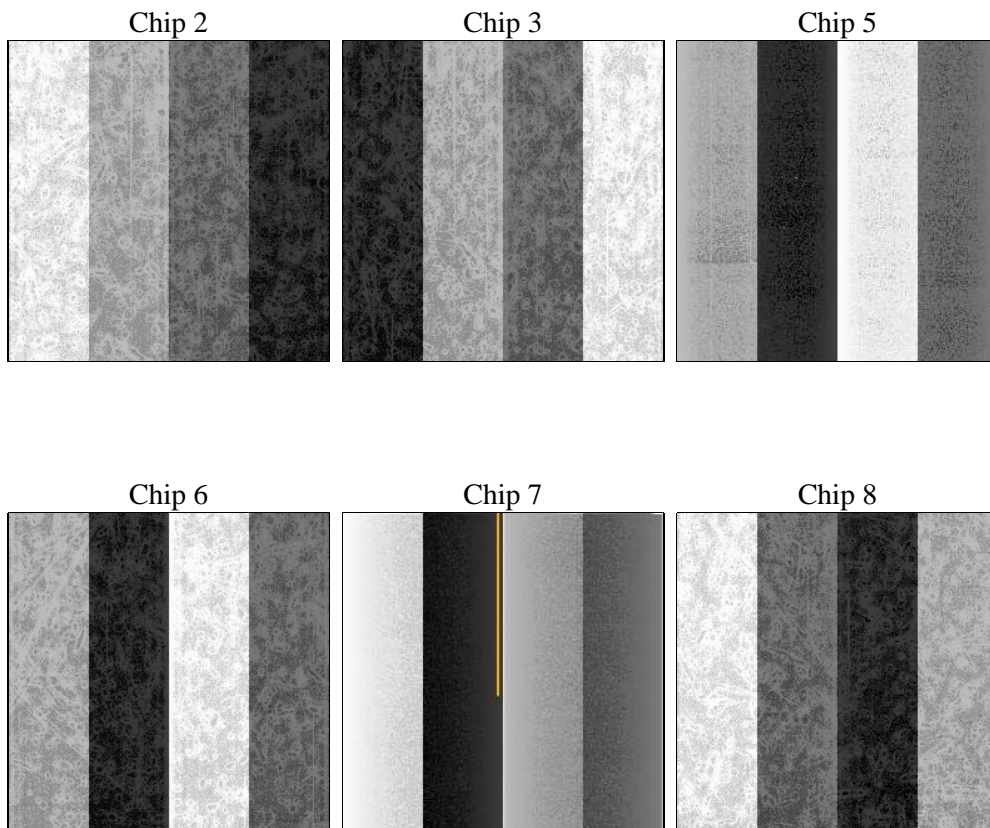
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	4124.7999846339	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	4124.7999846339	Sum of GTIs [s]
date	2012-03-25T01:35:03	Date and time of file creation	ontime3	4124.7999846339	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4124.7999846339	Sum of GTIs [s]
			ontime6	4121.5590143502	Sum of GTIs [s]
			ontime7	4124.7999846339	Sum of GTIs [s]
			ontime8	4124.7999846339	Sum of GTIs [s]
			l1events	277525	Number of level 1 events

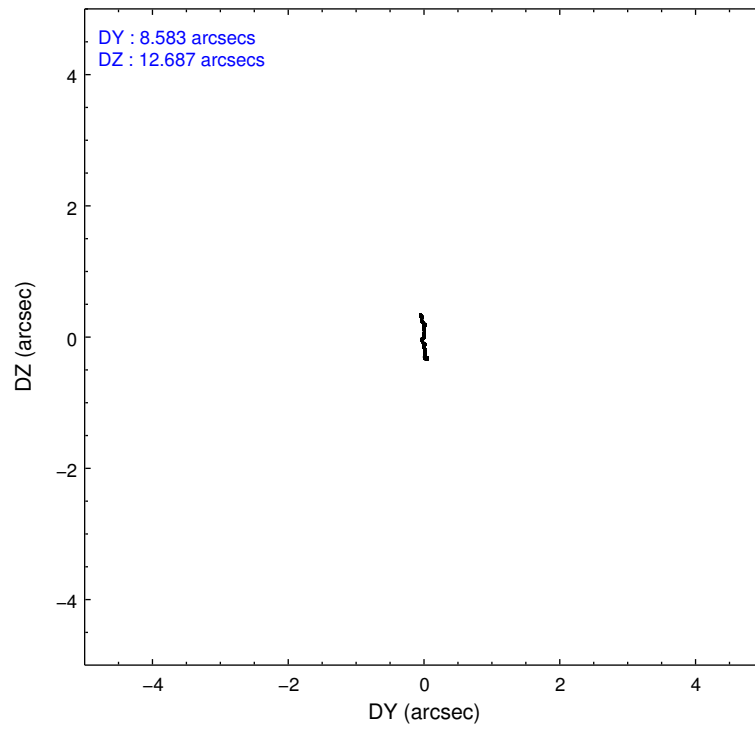
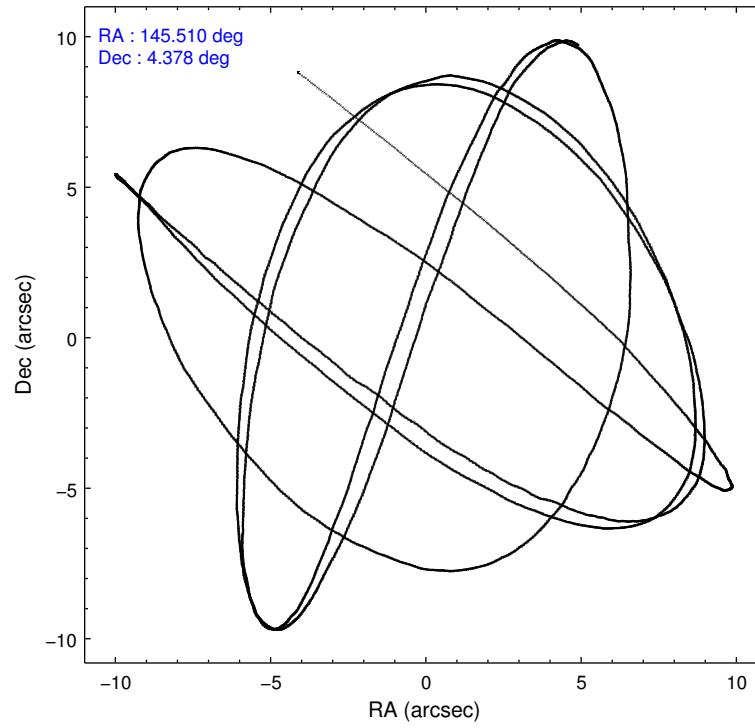
### 2.1.4 Events

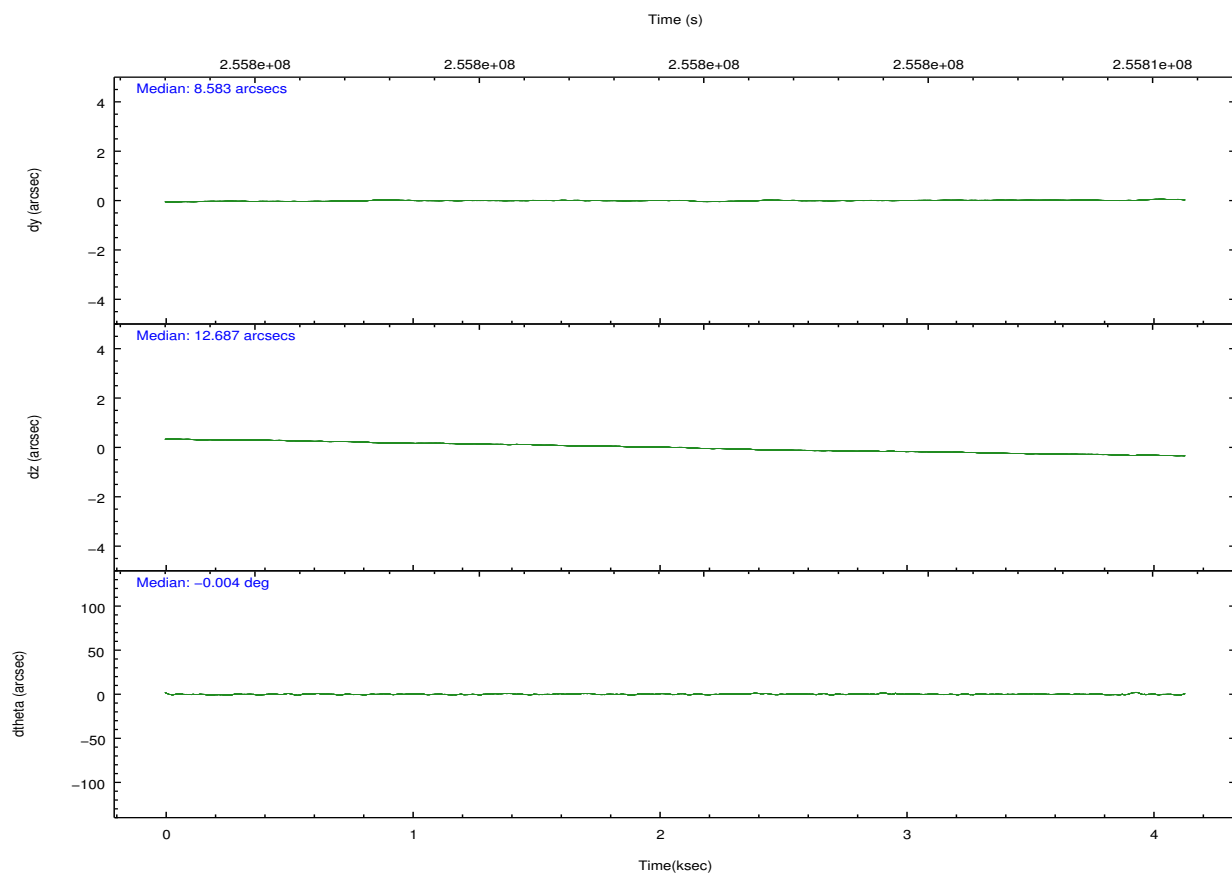
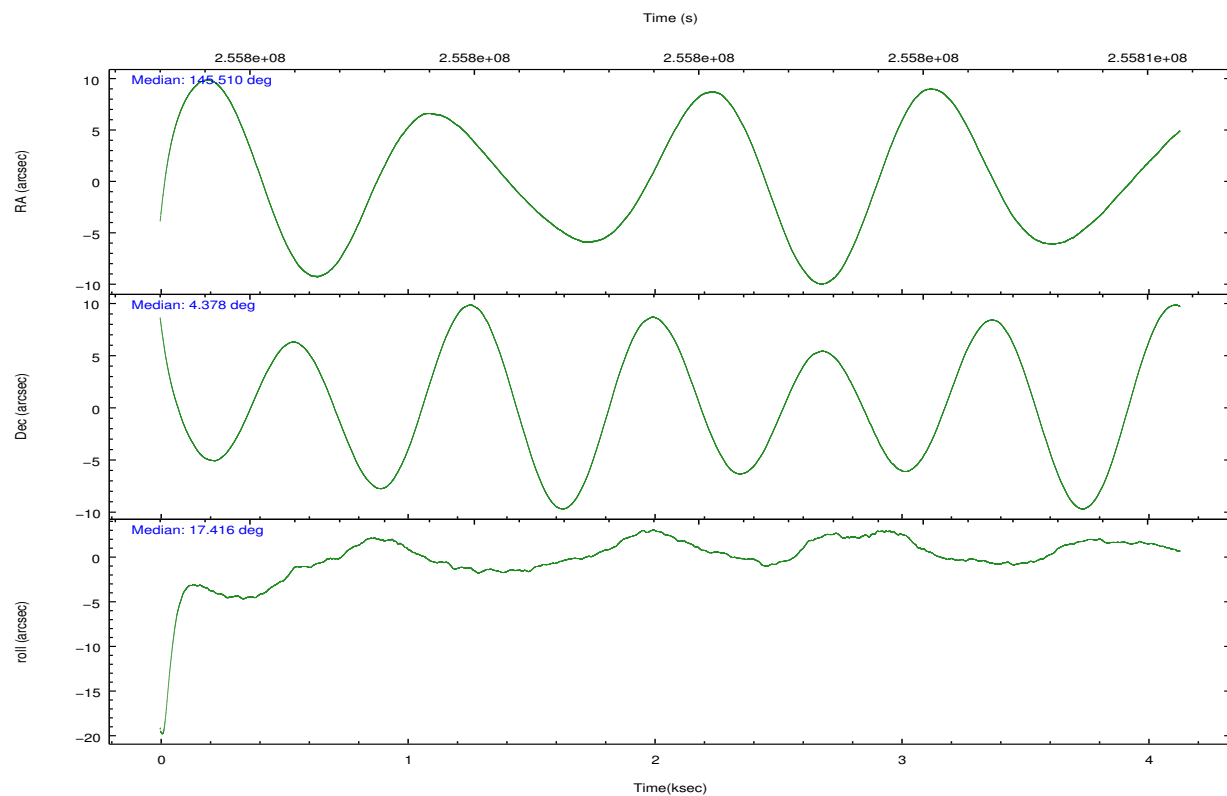
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	41084	38080	59364	38484	52922	47591	grade 0 events	2028	1876	2981	1763	1920	3139
rejected events	36847	34071	34336	34347	33050	38444		4%	4%	5%	4%	3%	6%
rejected %	89%	89%	57%	89%	62%	80%	grade 1 events	31	23	89	17	71	40
								0%	0%	0%	0%	0%	0%
							grade 2 events	1016	883	8521	936	4410	2382
								2%	2%	14%	2%	8%	5%
							grade 3 events	403	440	1089	462	1948	1037
								0%	1%	1%	1%	3%	2%
							grade 4 events	441	455	1006	497	1928	982
								1%	1%	1%	1%	3%	2%
							grade 5 events	1488	1823	4330	1823	5092	2430
								3%	4%	7%	4%	9%	5%
							grade 6 events	791	787	14191	950	11747	2751
								1%	2%	23%	2%	22%	5%
							grade 7 events	34886	31793	27157	32036	25806	34830
								84%	83%	45%	83%	48%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	145.491822	145.5100751680629	Subarray requested	NONE	NONE
[deg] Pointing Dec	4.357506	4.377820603504913	Alternating exposures requested	N	N
[deg] Pointing Roll	17.259291	17.41448123416479	[s] Primary exposure time	0.000000	3.2
[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)	255801933.184000	255800665.52079			
Observation start date	2006-02-08T16:04:28	2006-02-08T15:44:25			
[s] Observation end time (MET)	255805933.184000	255807049.22109			
Observation end date	2006-02-08T17:11:08	2006-02-08T17:30:49			
Read mode	TIMED	TIMED			

## 2.3 Aspect



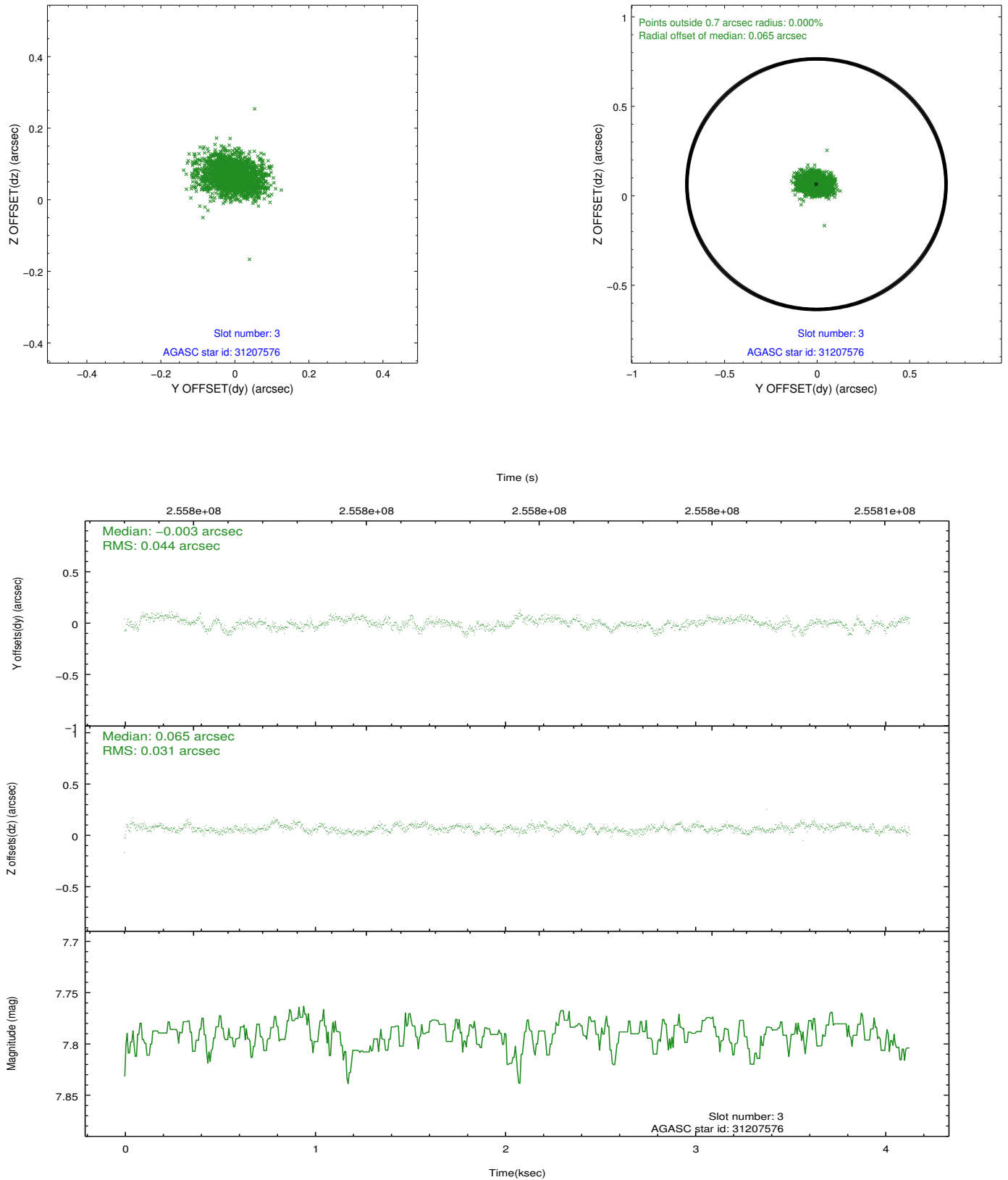


### Slot Statistics

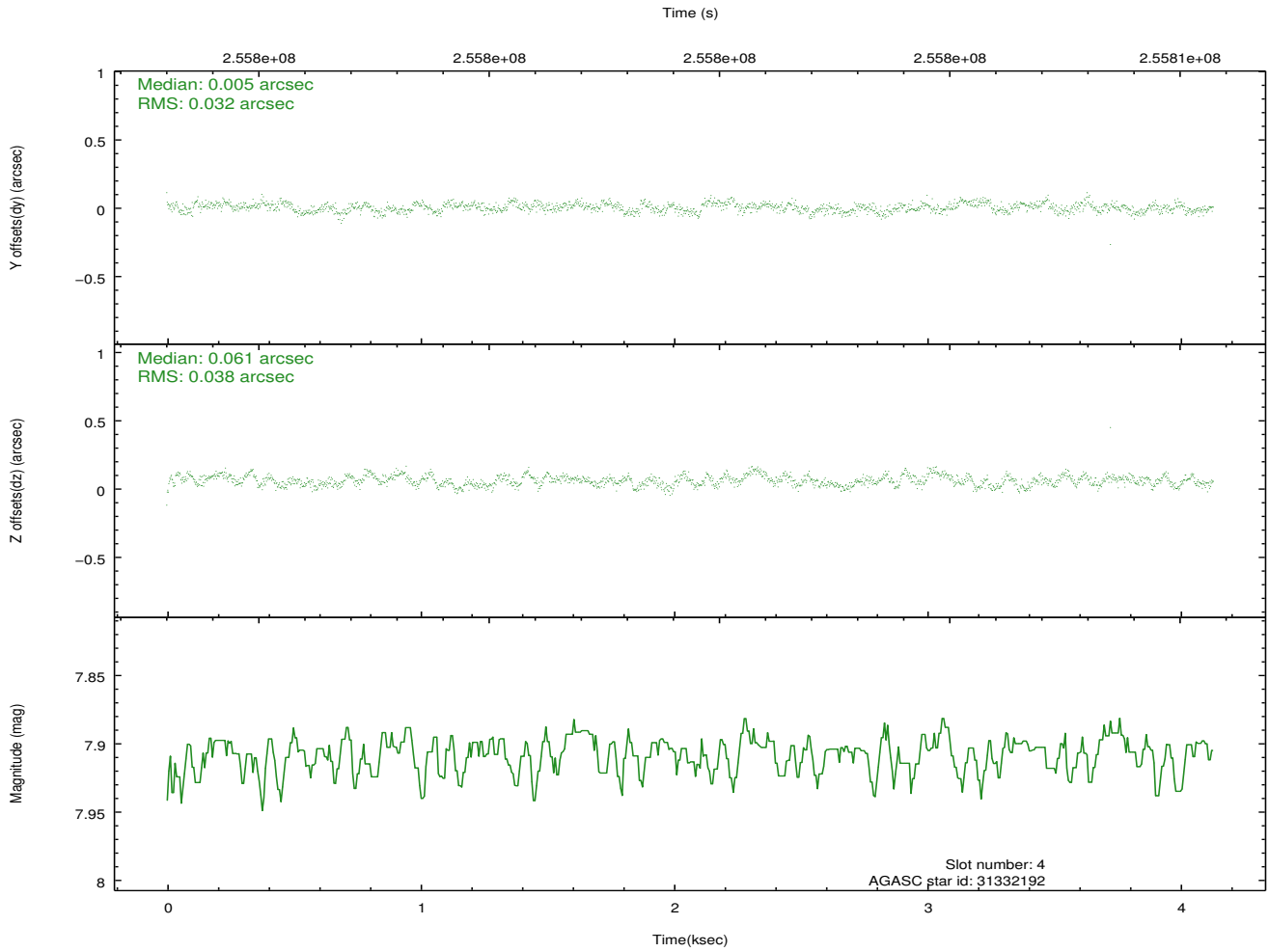
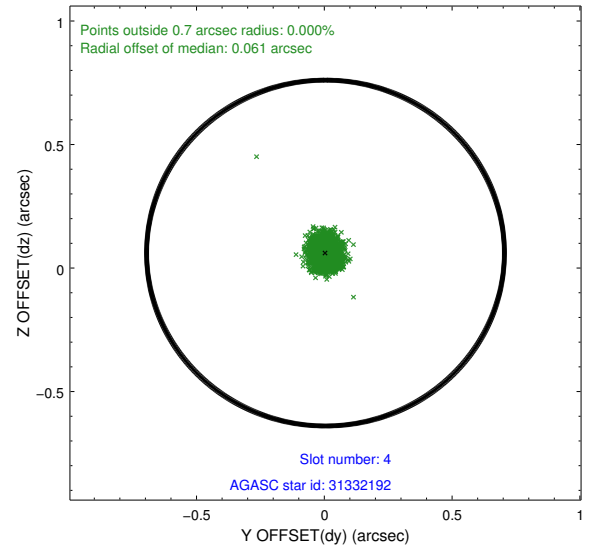
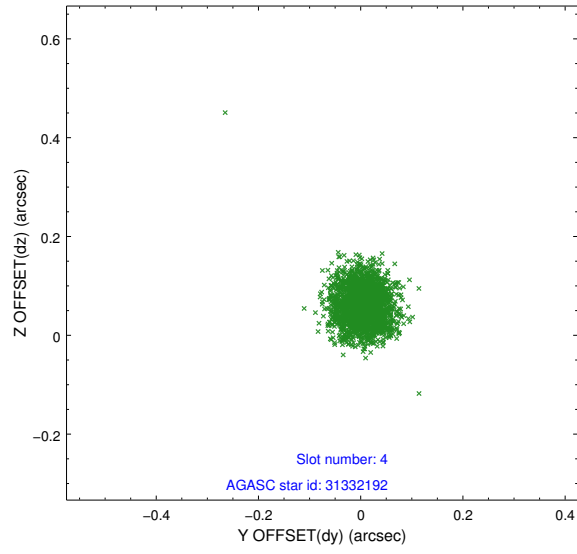
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1008	-0.060	-0.040	0.006	0.010	0.000000	0.000000	-761.45	-1733.98
1	FID	ACIS-S-4	7.20	1008	0.076	0.020	0.006	0.010	0.000000	0.000000	2151.30	172.98
2	FID	ACIS-S-6	7.35	1008	-0.045	0.027	0.007	0.012	0.000000	0.000000	402.50	812.11
3	GUIDE	31207576	7.79	2016	-0.003	0.065	0.057	0.095	144.924676	4.284621	-2022.16	354.49
4	GUIDE	31332192	7.91	2015	0.005	0.061	0.052	0.081	145.337802	4.702192	-160.65	1349.12
5	GUIDE	31332640	8.88	2016	-0.037	-0.151	0.075	0.113	145.180745	4.393955	-1027.59	457.33
6	GUIDE	31341760	8.56	2016	-0.022	-0.023	0.078	0.120	145.507714	4.969846	707.82	2087.91
7	GUIDE	31720672	8.95	2014	0.055	0.043	0.079	0.125	145.719775	5.025753	1494.61	2055.99

## 2.4 Star Slots

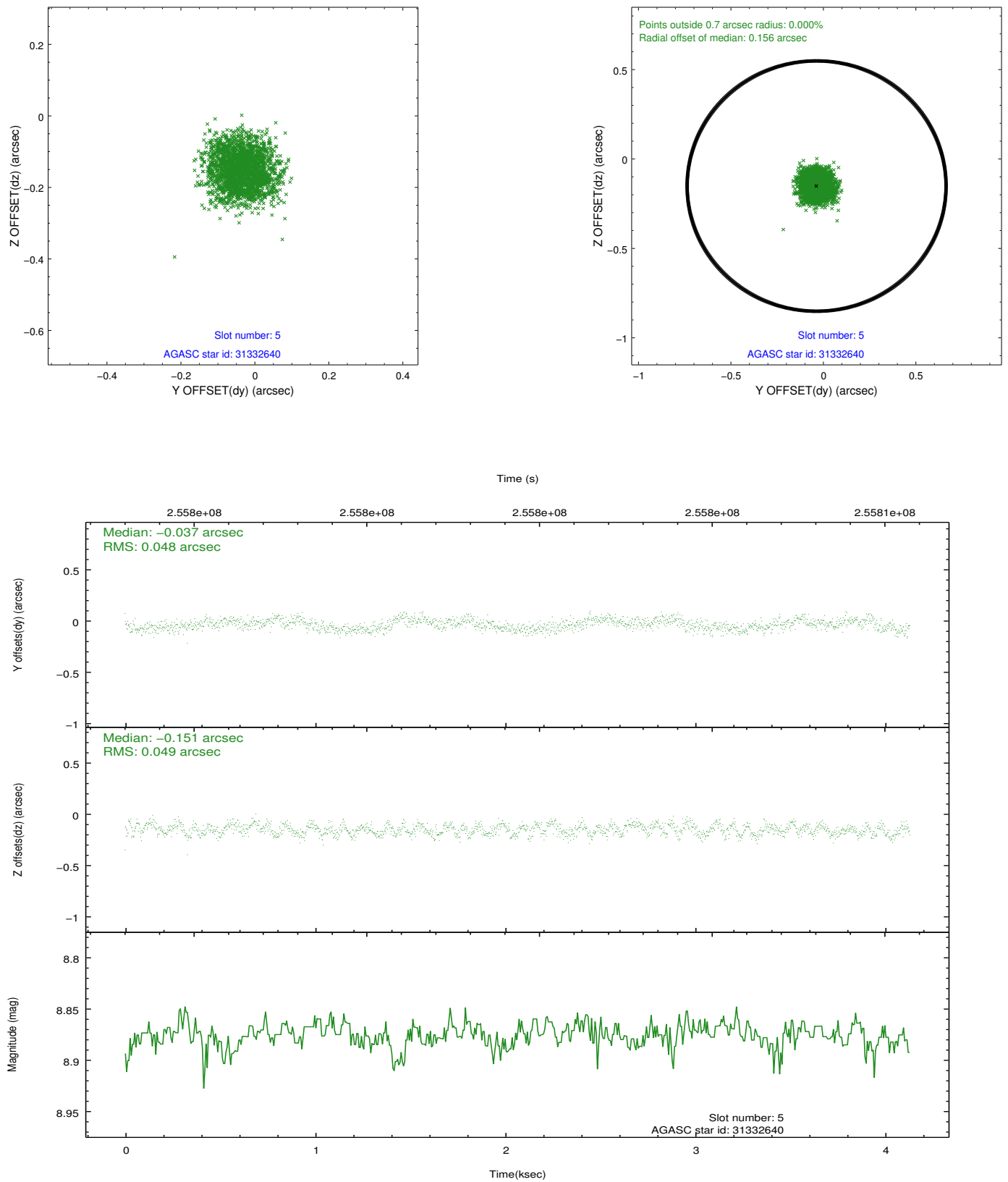
### 2.4.1 Slot 3



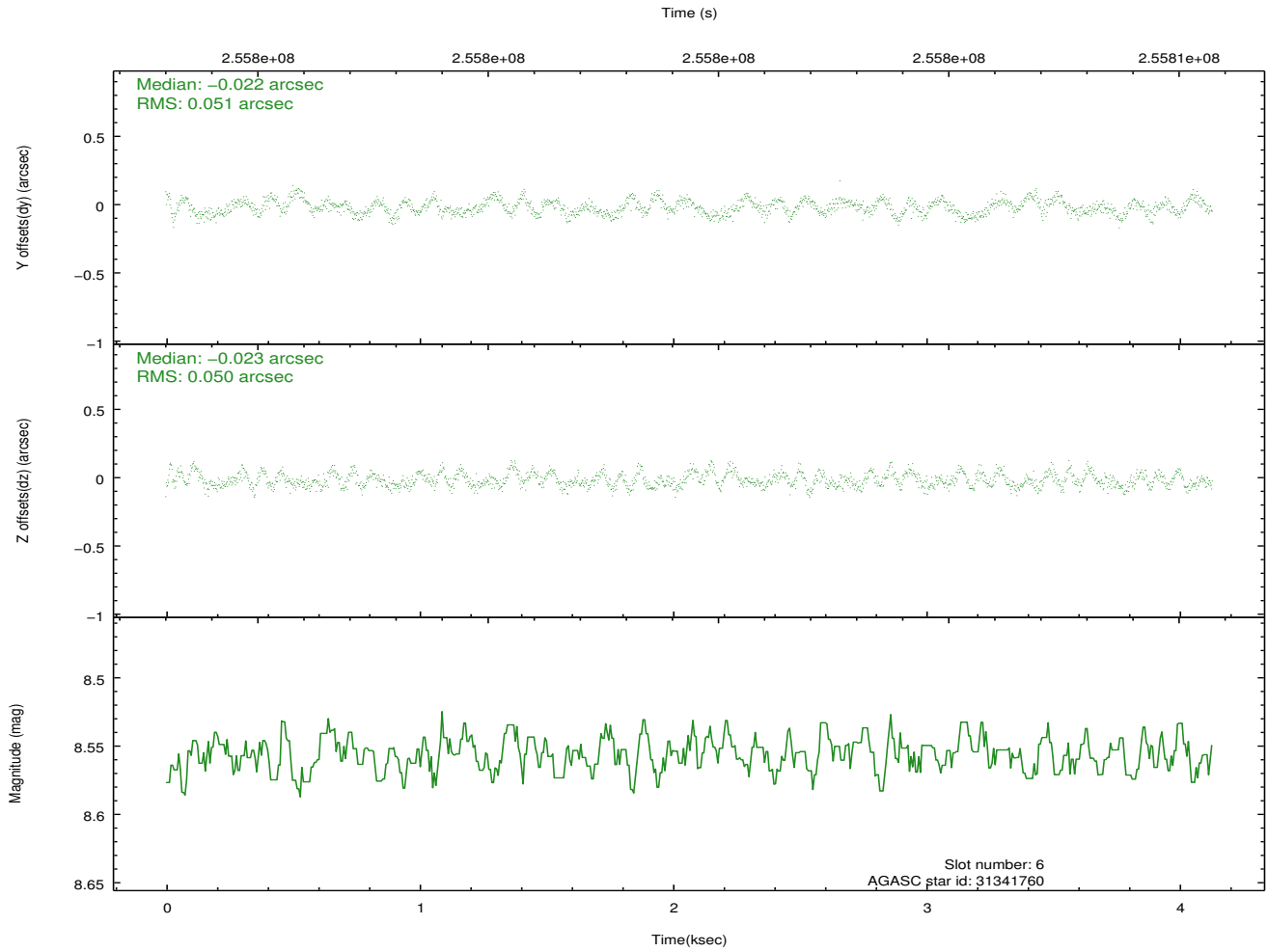
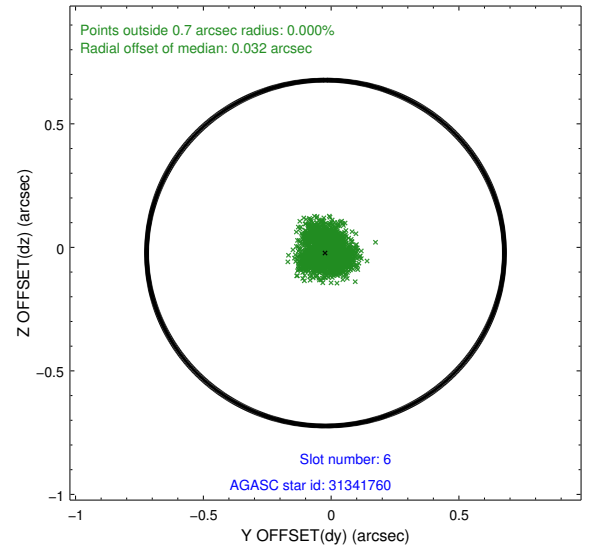
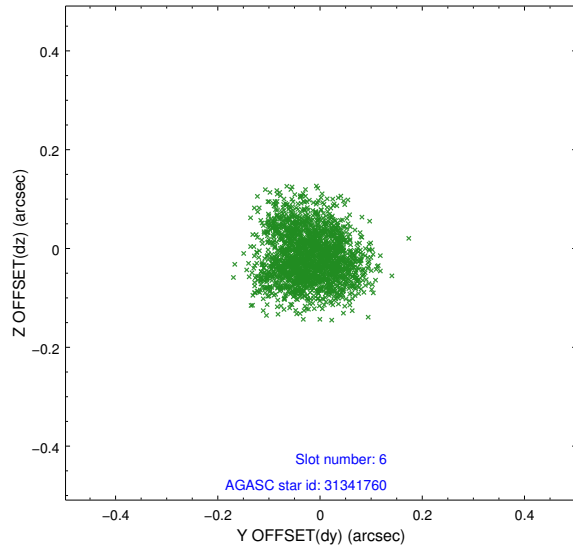
## 2.4.2 Slot 4



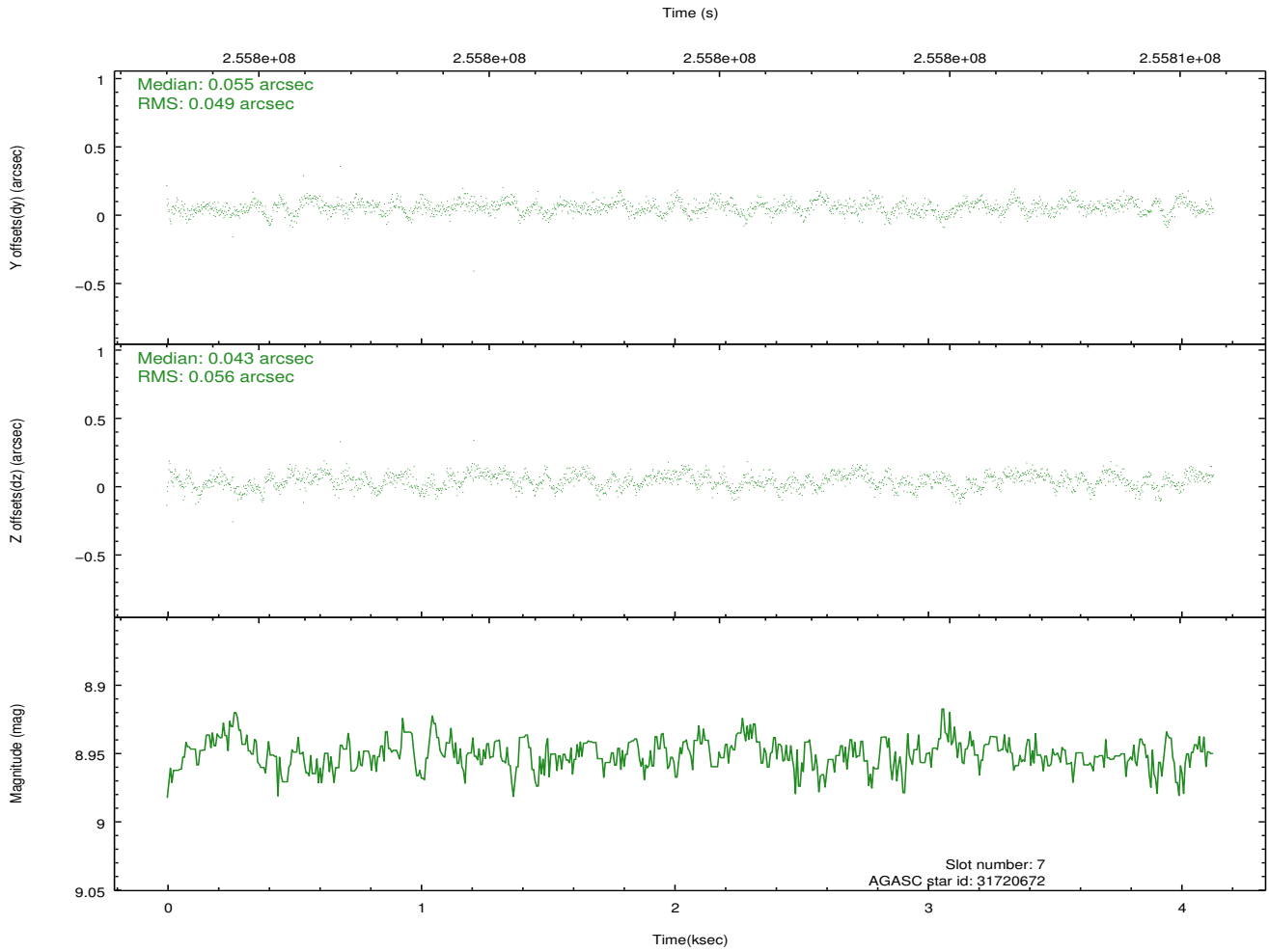
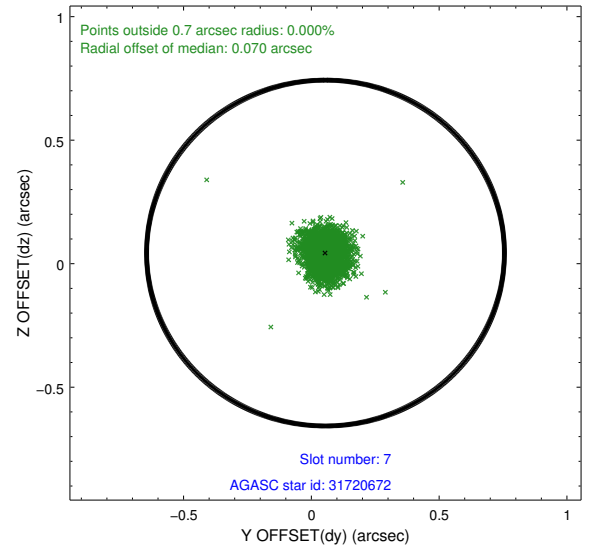
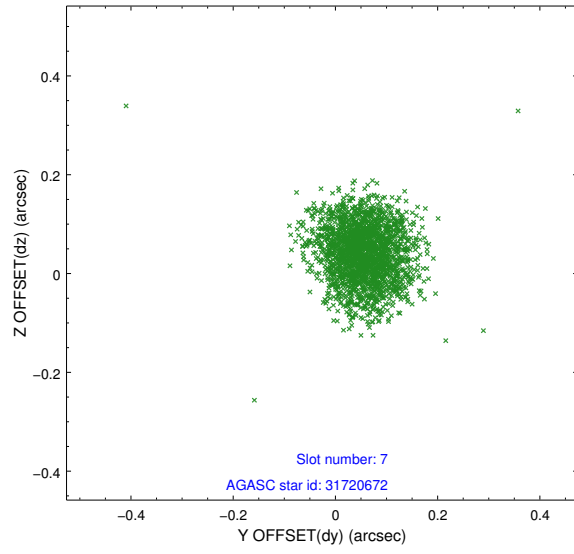
### 2.4.3 Slot 5



## 2.4.4 Slot 6

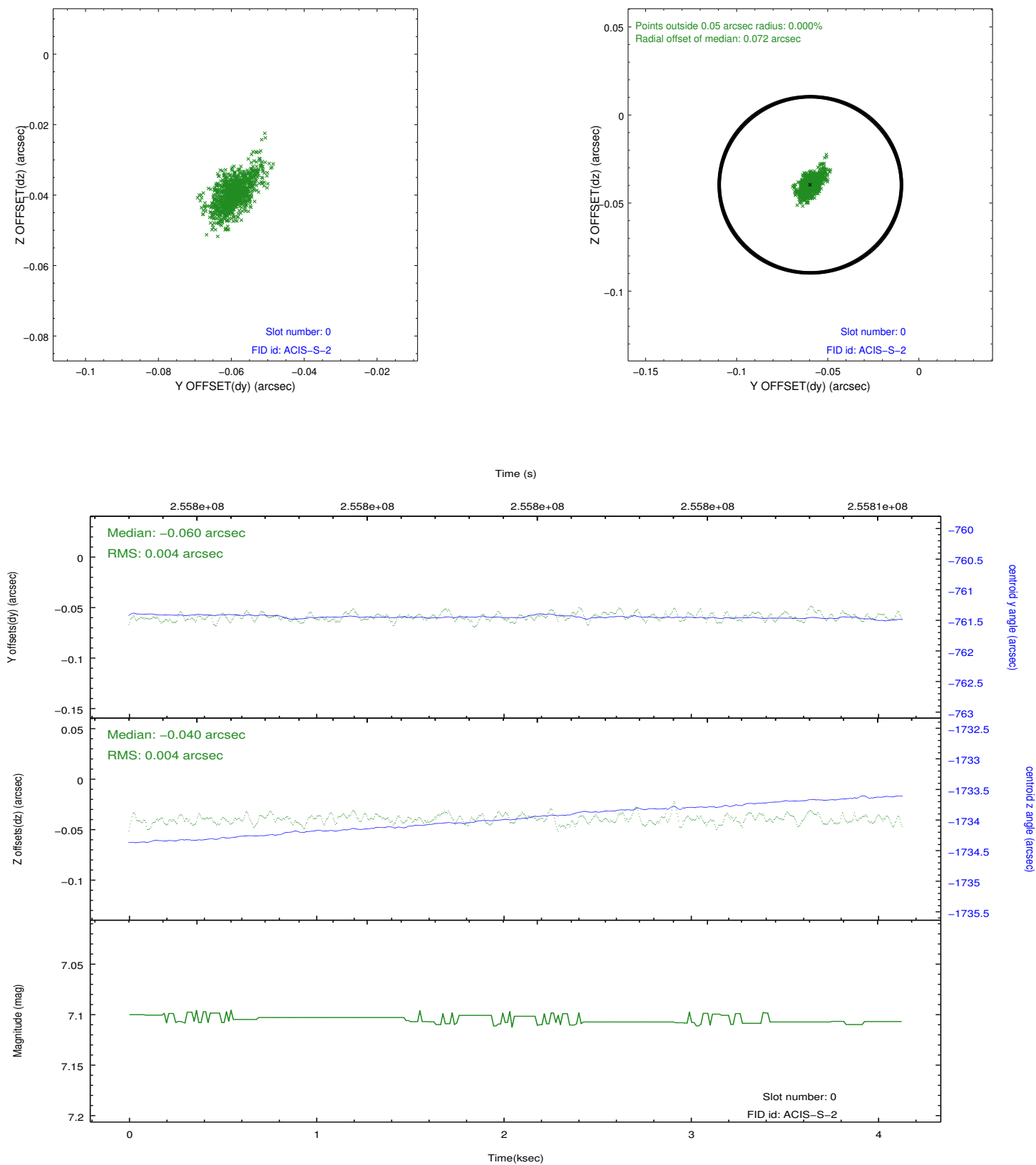


## 2.4.5 Slot 7

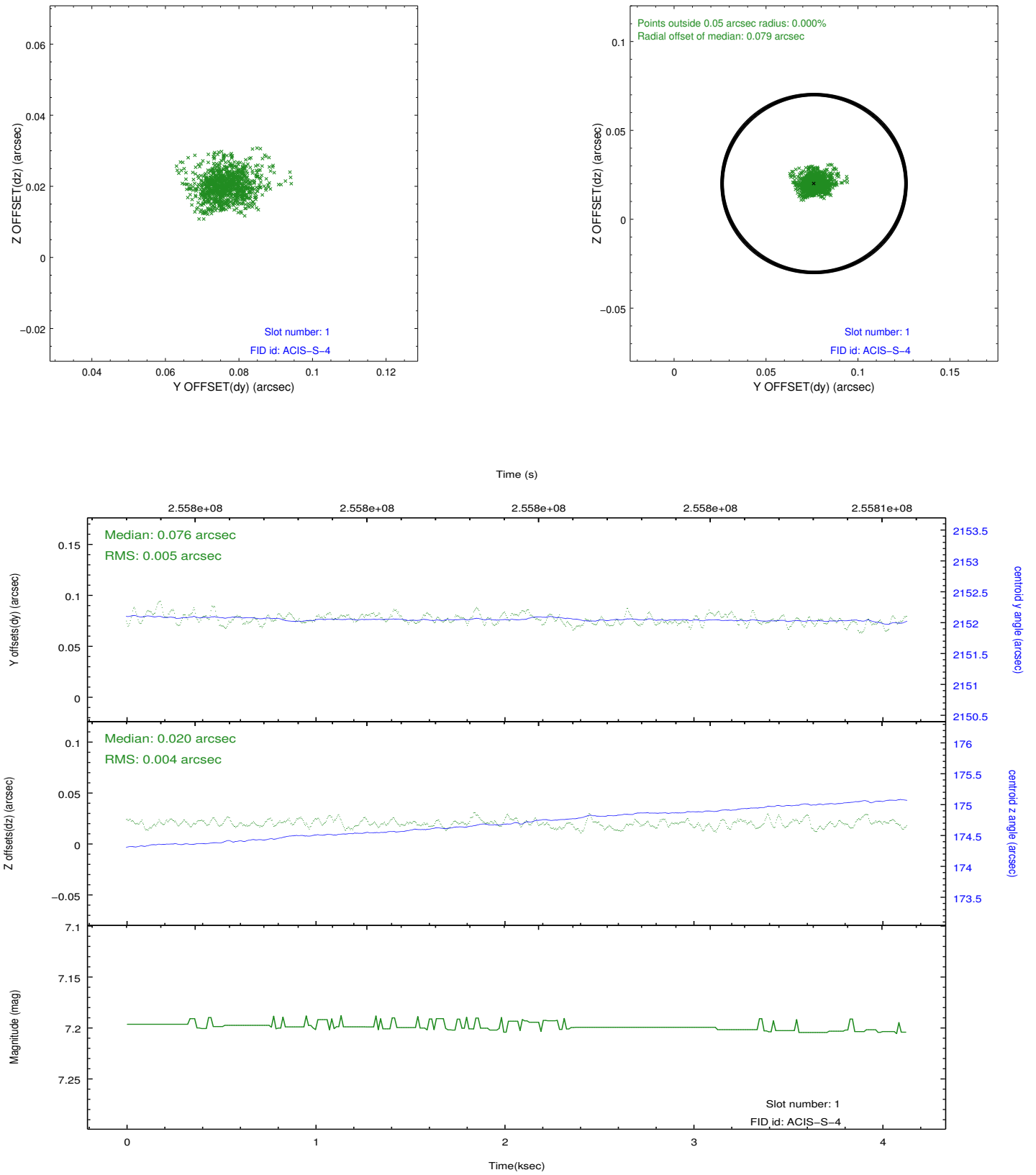


## 2.5 FID Slots

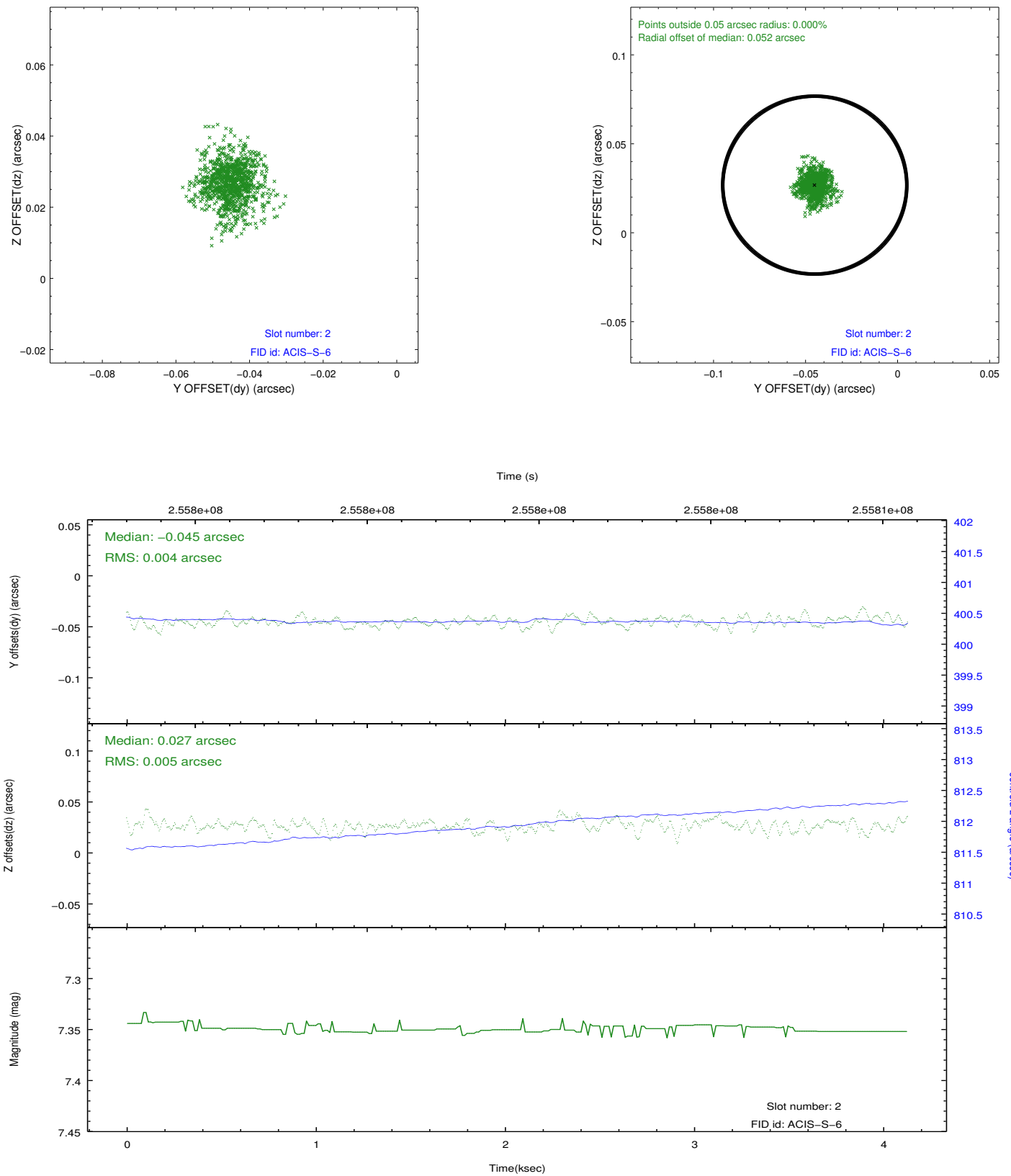
### 2.5.1 Slot 0



## 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)	2012.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.12479998

### A.2 Comments