

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6747 - L2 Version 2  
Chandra X-Ray Center

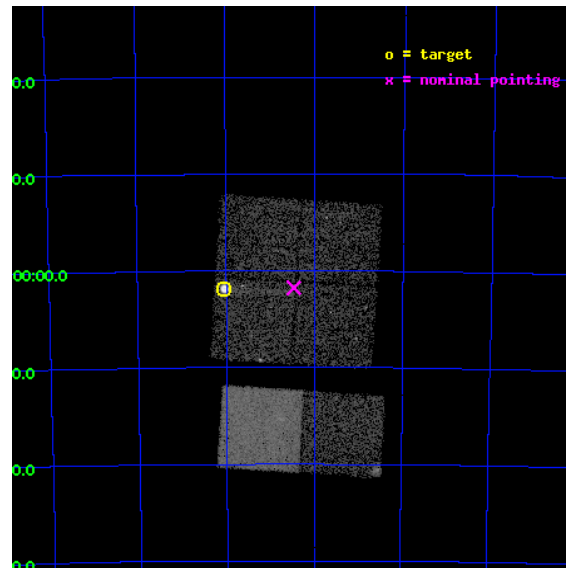
L2 Processing Date : Mar 29 2012

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# 1 Front

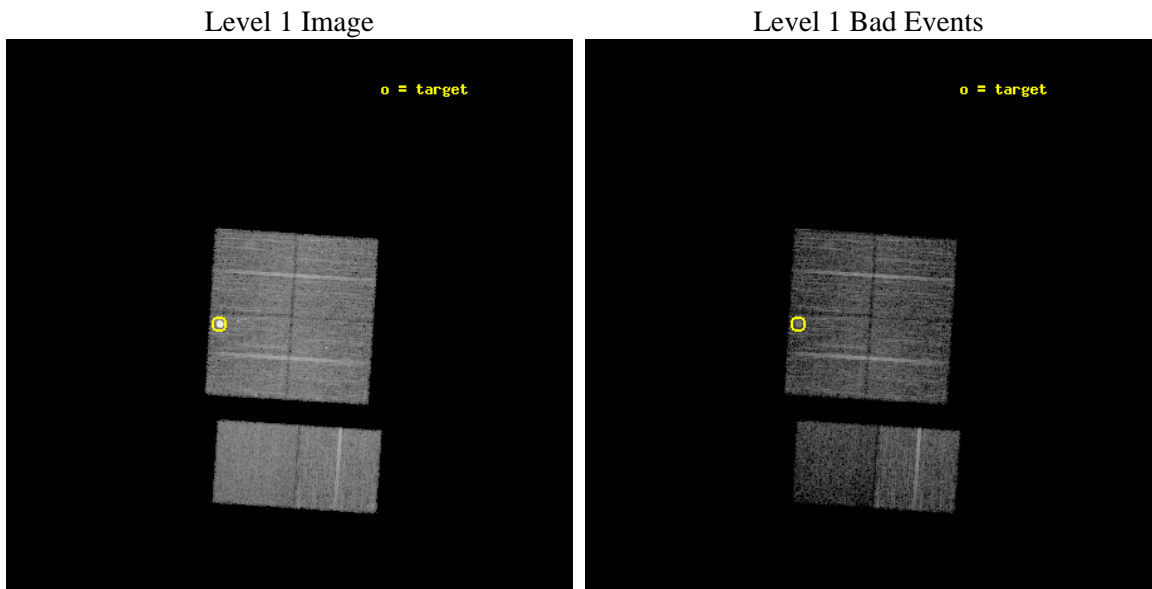
seq_num	590430	Sequence number
obs_id	6747	Observation id
title	AO7 ACIS-I Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[I3,-120,-7,0.5,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.616604585432	Nominal RA [deg]
dec_nom	-72.029705240821	Nominal Dec [deg]
roll_nom	183.69537082234	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7375.9999725223	Sum of GTIs [s]
livetime	7282.6006195762	Livetime [s]
ontime0	7375.8907932639	Sum of GTIs [s]
ontime1	7375.9318332374	Sum of GTIs [s]
ontime2	7375.9728732407	Sum of GTIs [s]
ontime3	7375.9999725223	Sum of GTIs [s]
ontime6	7375.9999725223	Sum of GTIs [s]
ontime7	7375.9999725223	Sum of GTIs [s]
l2events	64779	Number of level 2 events



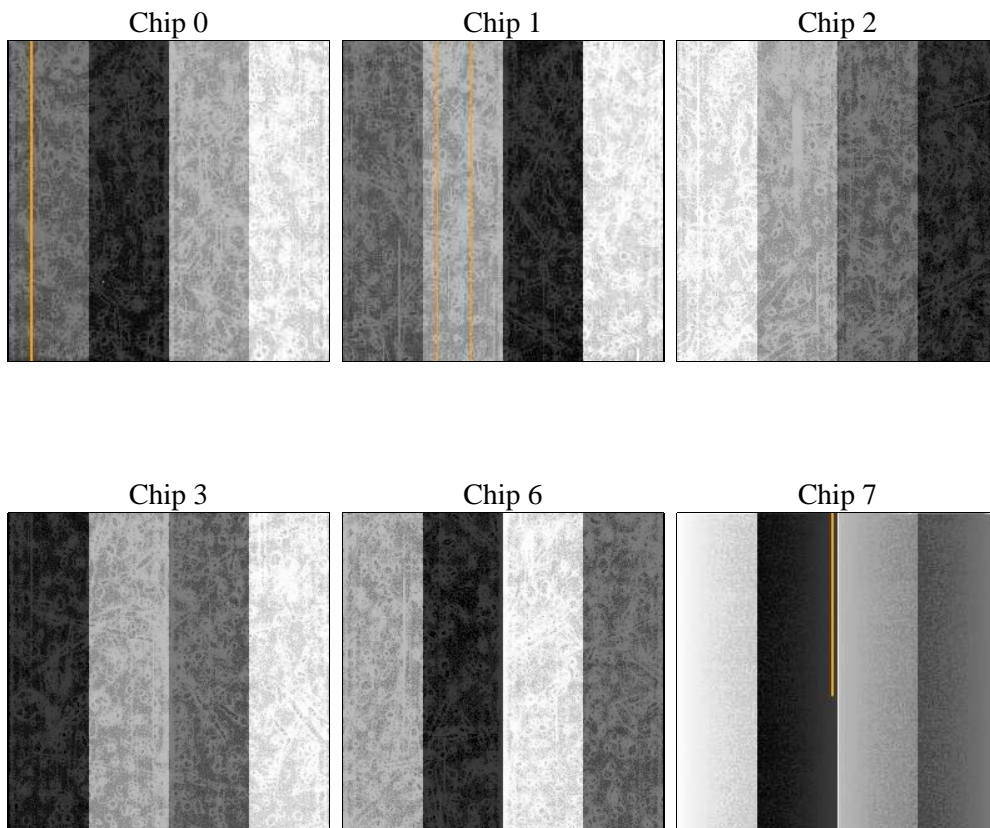
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	7419.819000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	7375.9999725223	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	7375.8907932639	Sum of GTIs [s]
date	2012-03-29T12:12:49	Date and time of file creation	ontime1	7375.9318332374	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	7375.9728732407	Sum of GTIs [s]
			ontime3	7375.9999725223	Sum of GTIs [s]
			ontime6	7375.9999725223	Sum of GTIs [s]
			ontime7	7375.9999725223	Sum of GTIs [s]
			l1events	325903	Number of level 1 events

### 2.1.4 Events

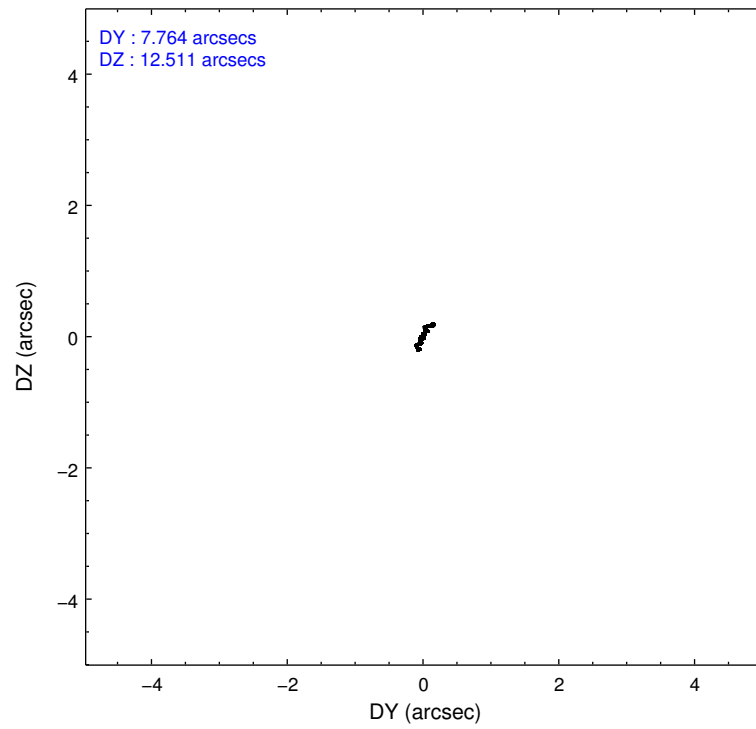
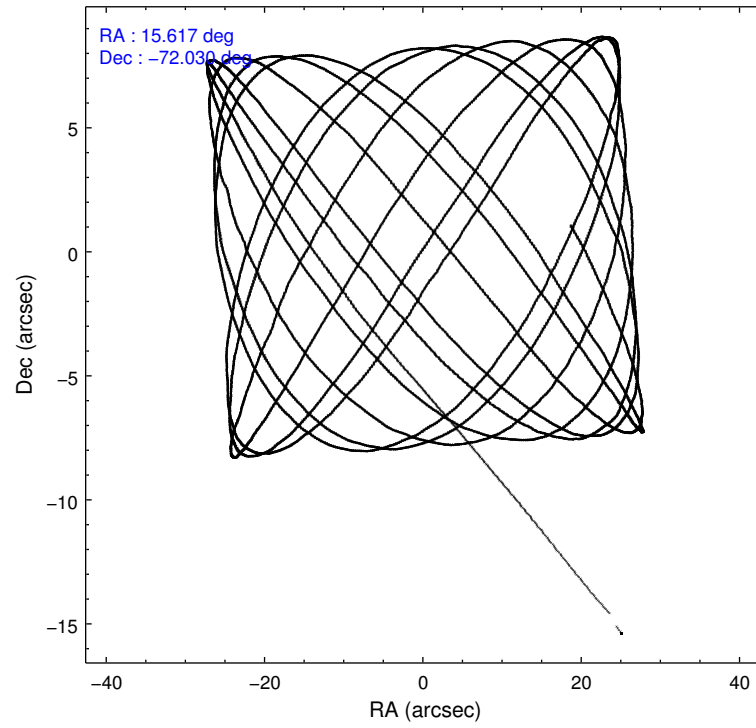
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	49693	47619	54367	72418	53155	48651	grade 0 events	2023	1912	2143	19081	2176	2434
rejected events	44449	42294	49080	47873	47533	24352		4%	4%	3%	26%	4%	5%
rejected %	89%	88%	90%	66%	89%	50%	grade 1 events	25	26	33	196	29	46
								0%	0%	0%	0%	0%	0%
							grade 2 events	1256	1139	1183	2478	1218	5146
								2%	2%	2%	3%	2%	10%
							grade 3 events	547	626	522	932	599	2324
								1%	1%	0%	1%	1%	4%
							grade 4 events	545	603	538	951	570	2351
								1%	1%	0%	1%	1%	4%
							grade 5 events	1414	1606	1294	1830	1778	5335
								2%	3%	2%	2%	3%	10%
							grade 6 events	877	1049	902	1110	1060	12053
								1%	2%	1%	1%	1%	24%
							grade 7 events	43006	40658	47752	45840	45725	18962
								86%	85%	87%	63%	86%	38%

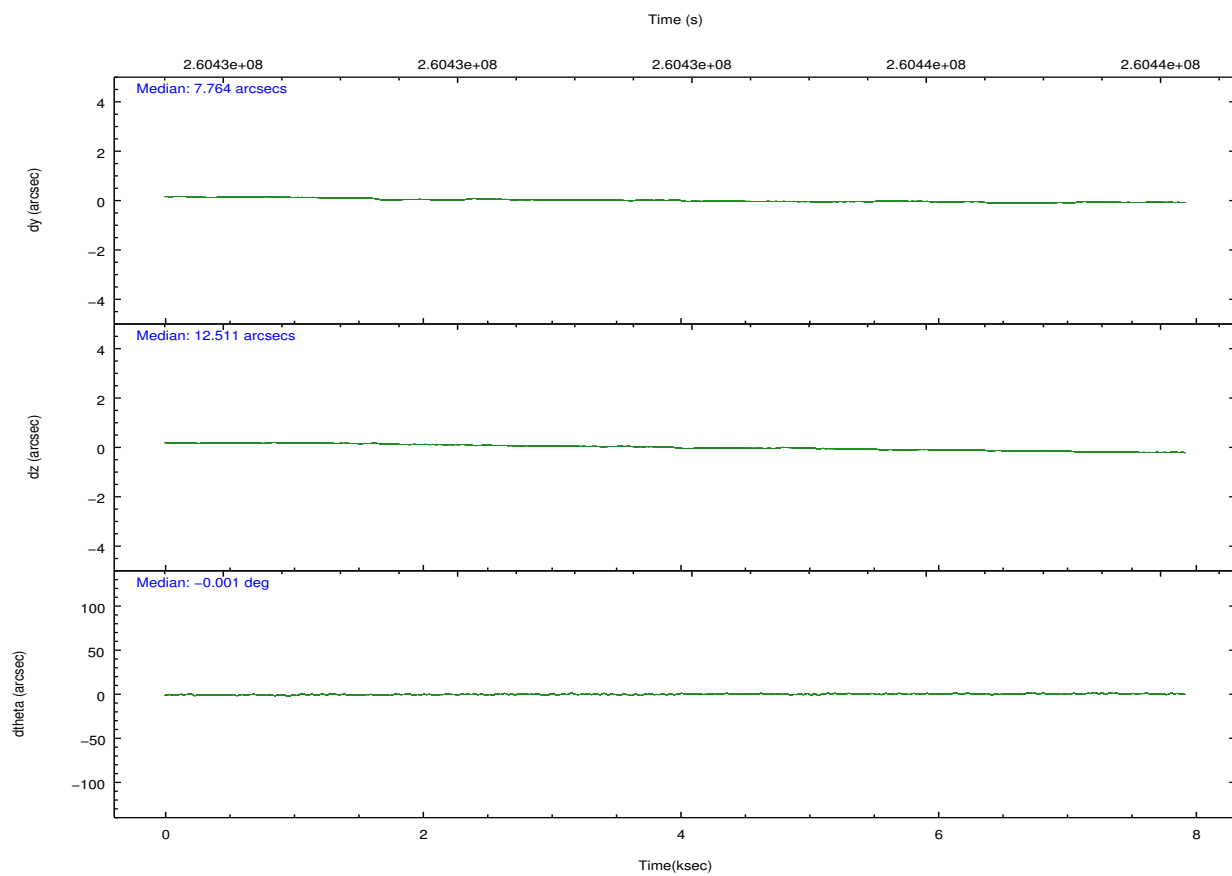
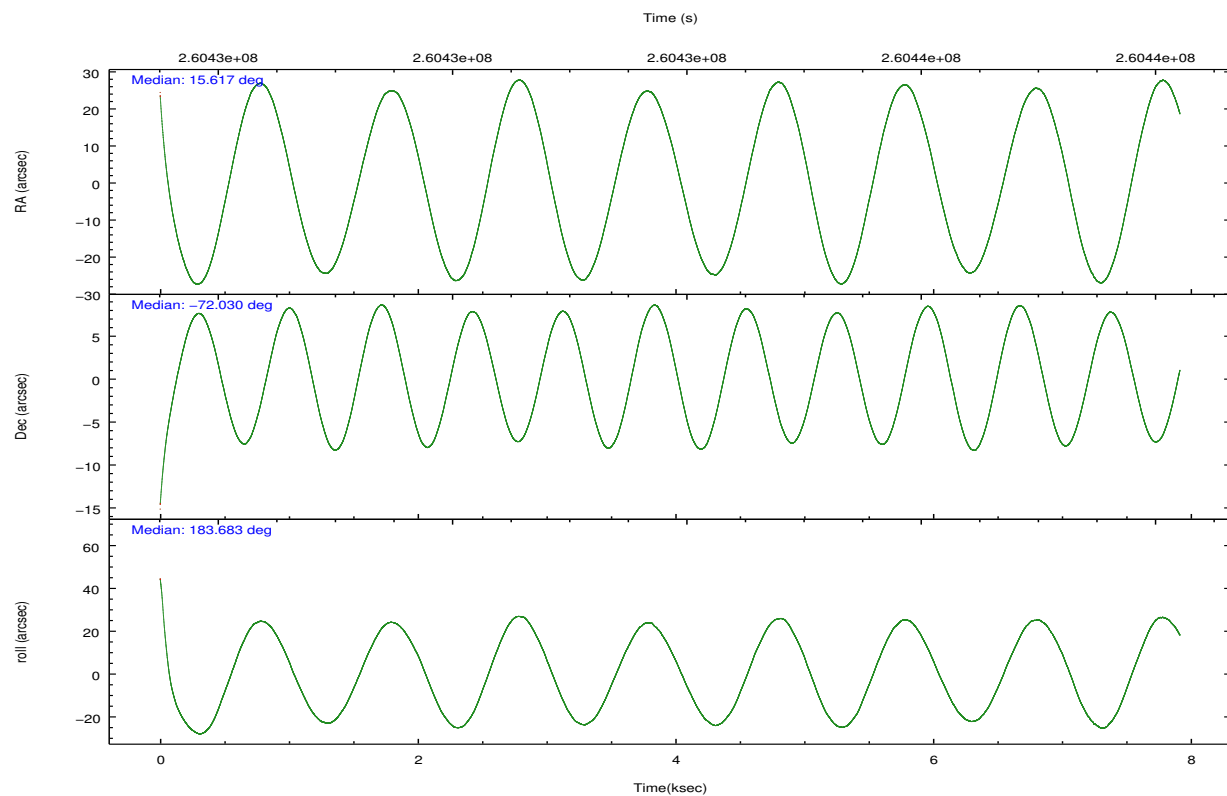


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	15.690247	15.61660458543224	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.014376	-72.02970524082087	Alternating exposures requested	N	N
[deg] Pointing Roll	183.556697	183.6953708223365	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	247190464.184000	247190464.184000			
[s] Window stop time (MET)	262742465.184000	262742465.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	260430396.184000	260429119.3485			
Observation start date	2006-04-03T05:45:31	2006-04-03T05:25:19			
[s] Observation end time (MET)	260437816.184000	260438053.76142			
Observation end date	2006-04-03T07:49:11	2006-04-03T07:54:13			
Read mode	TIMED	TIMED			

## 2.3 Aspect



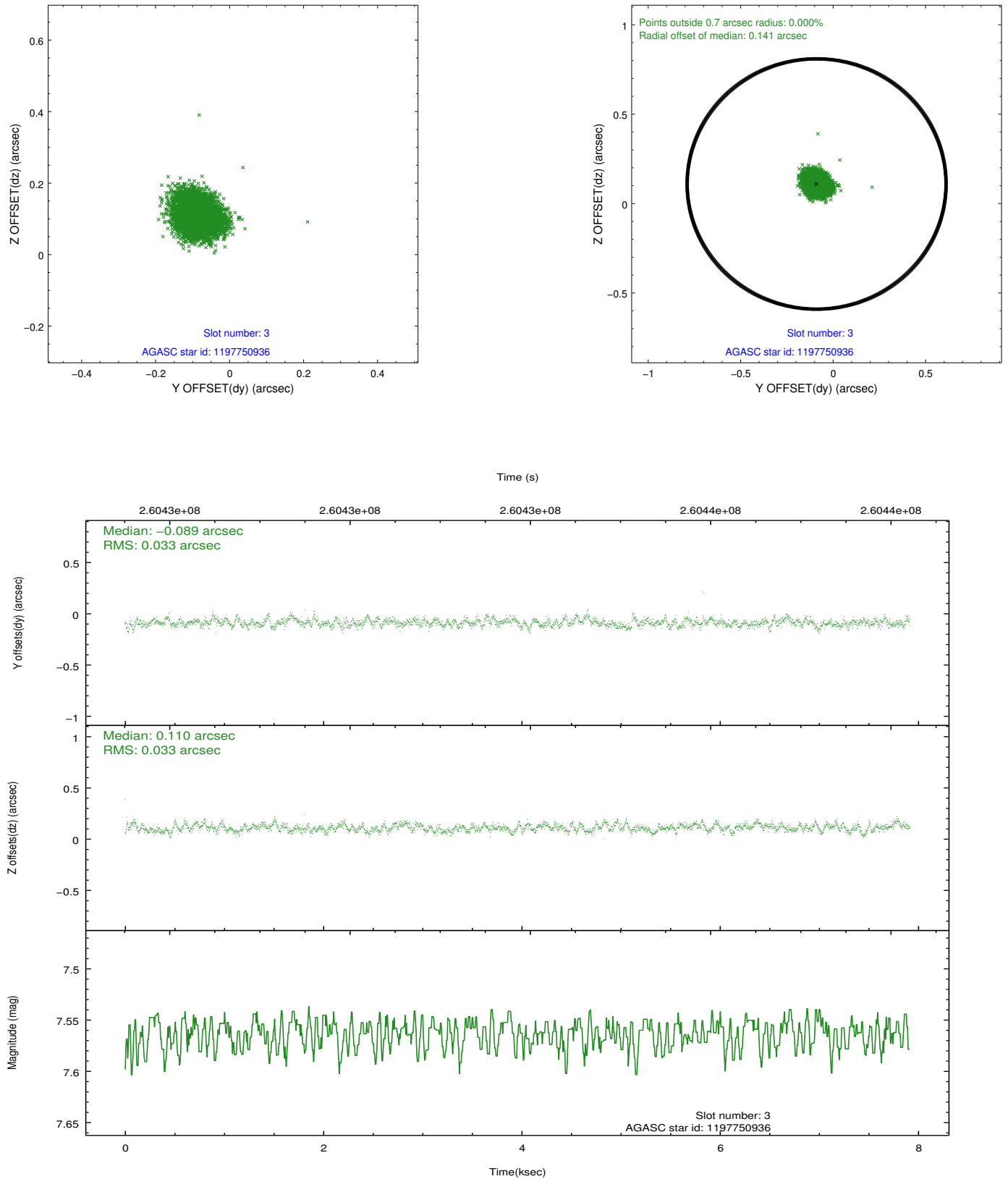


### Slot Statistics

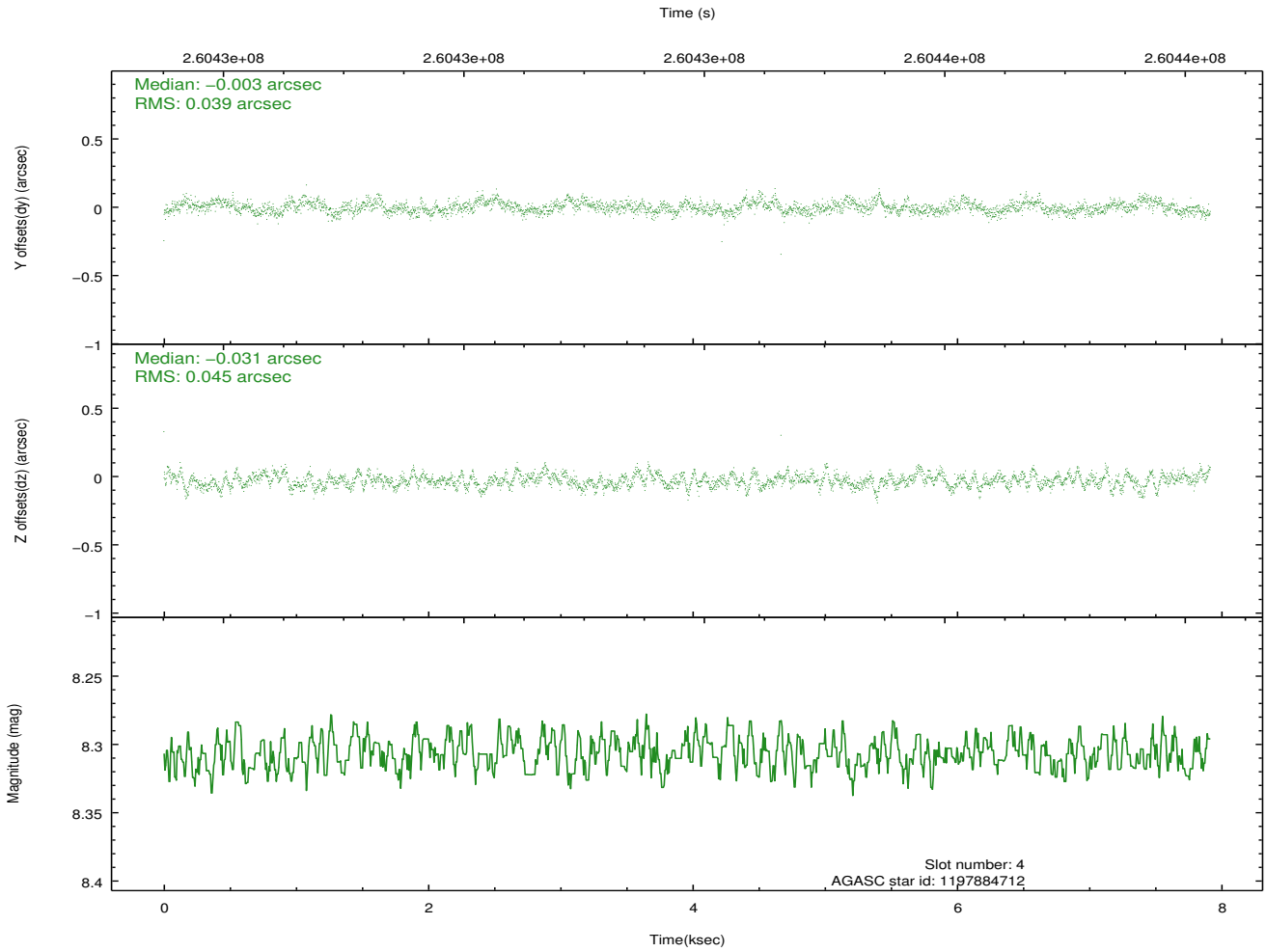
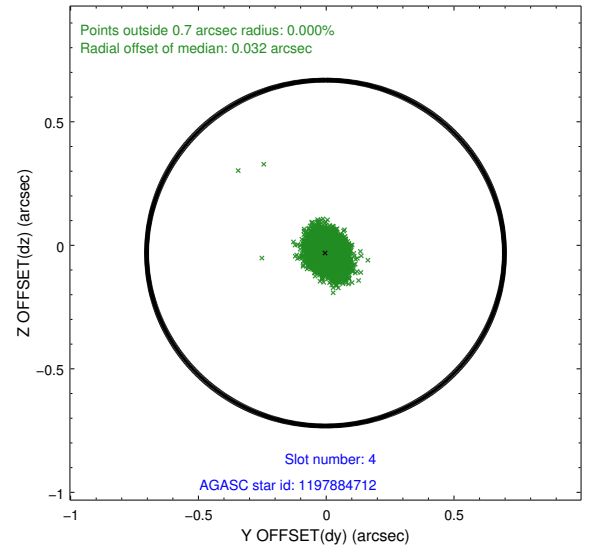
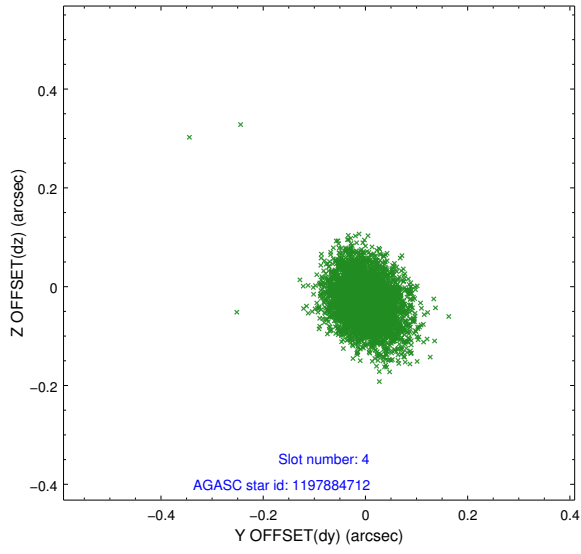
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1931	0.050	-0.005	0.008	0.014	0.000000	0.000000	931.92	-836.07
1	FID	ACIS-I-5	7.22	1931	-0.177	0.068	0.007	0.011	0.000000	0.000000	-1815.99	1061.18
2	FID	ACIS-I-6	7.25	1931	0.036	0.007	0.009	0.014	0.000000	0.000000	396.72	1706.39
3	GUIDE	1197750936	7.56	3862	-0.089	0.110	0.049	0.080	15.387940	-71.549550	240.43	-1689.90
4	GUIDE	1197884712	8.31	3862	-0.003	-0.031	0.062	0.103	16.087398	-72.252690	-381.62	884.56
5	GUIDE	1197885328	7.23	3862	-0.017	0.127	0.055	0.084	16.283090	-71.733943	-730.45	-962.56
6	GUIDE	1197885104	9.35	3860	0.121	0.048	0.098	0.160	17.845067	-72.189368	-2325.76	818.34
7	GUIDE	1198283128	7.74	3858	-0.015	-0.258	0.053	0.087	17.272580	-72.642428	-1555.34	2384.34

## 2.4 Star Slots

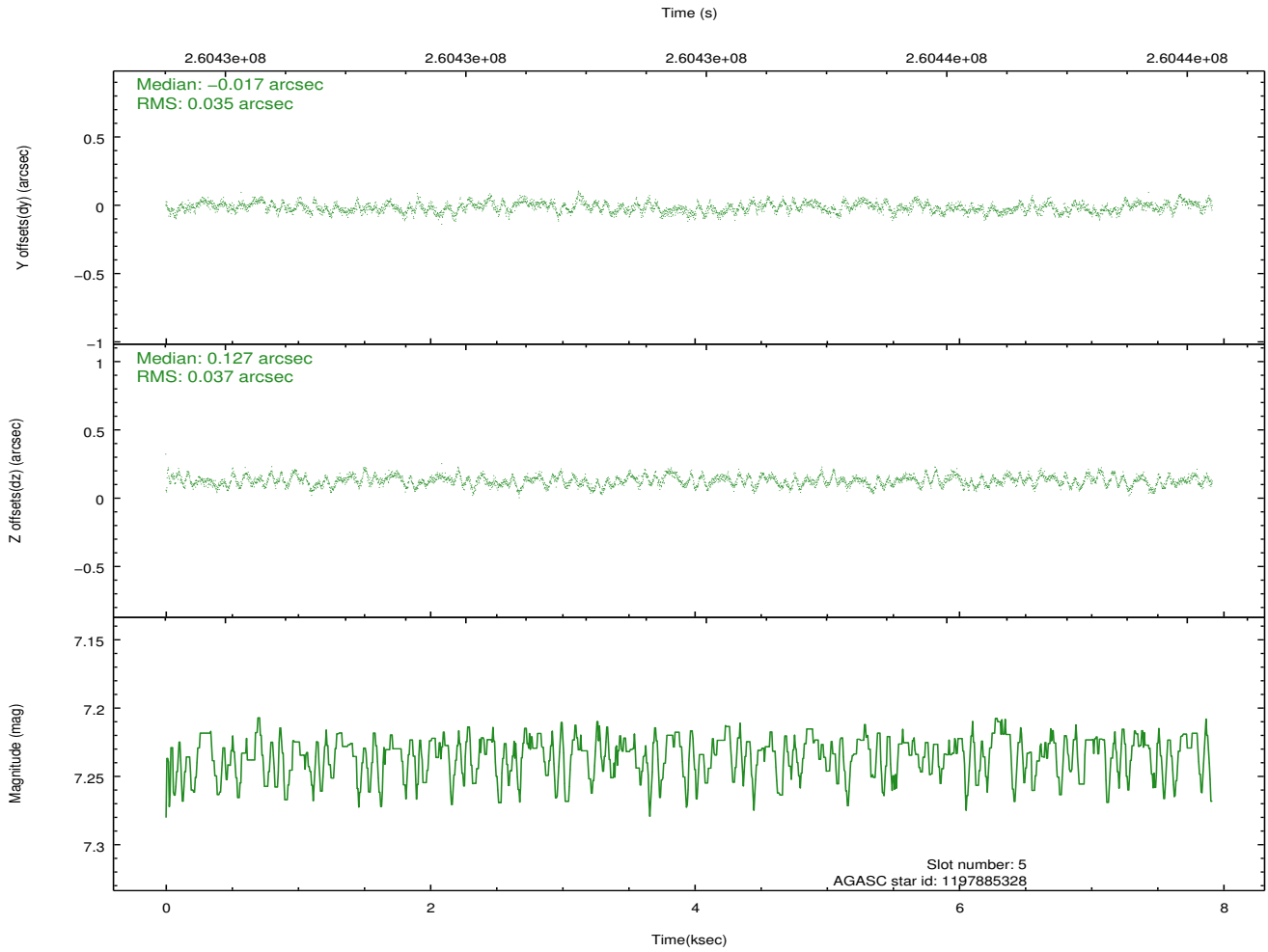
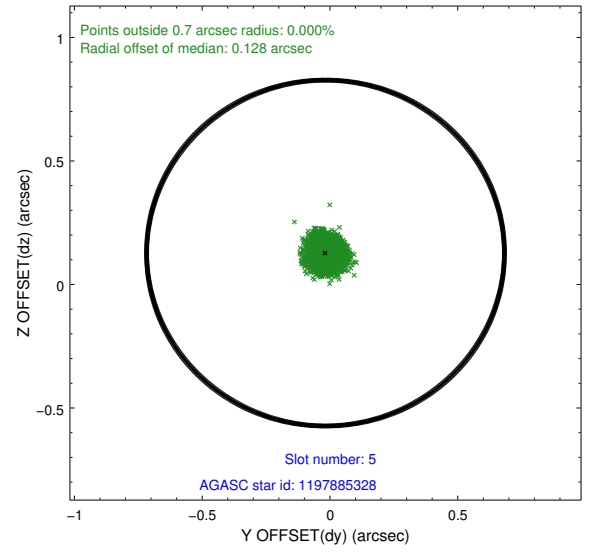
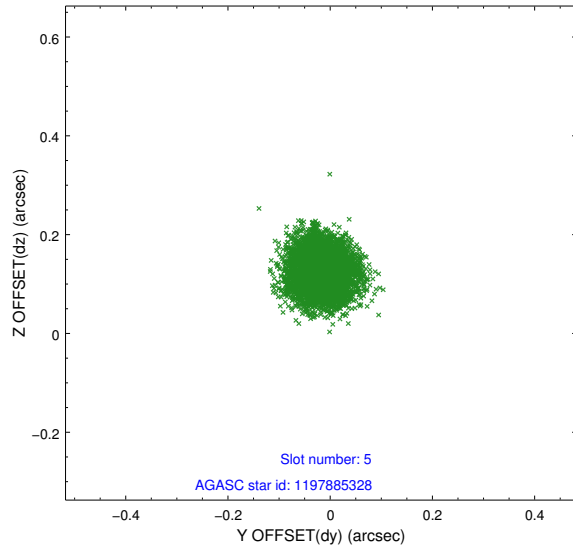
### 2.4.1 Slot 3



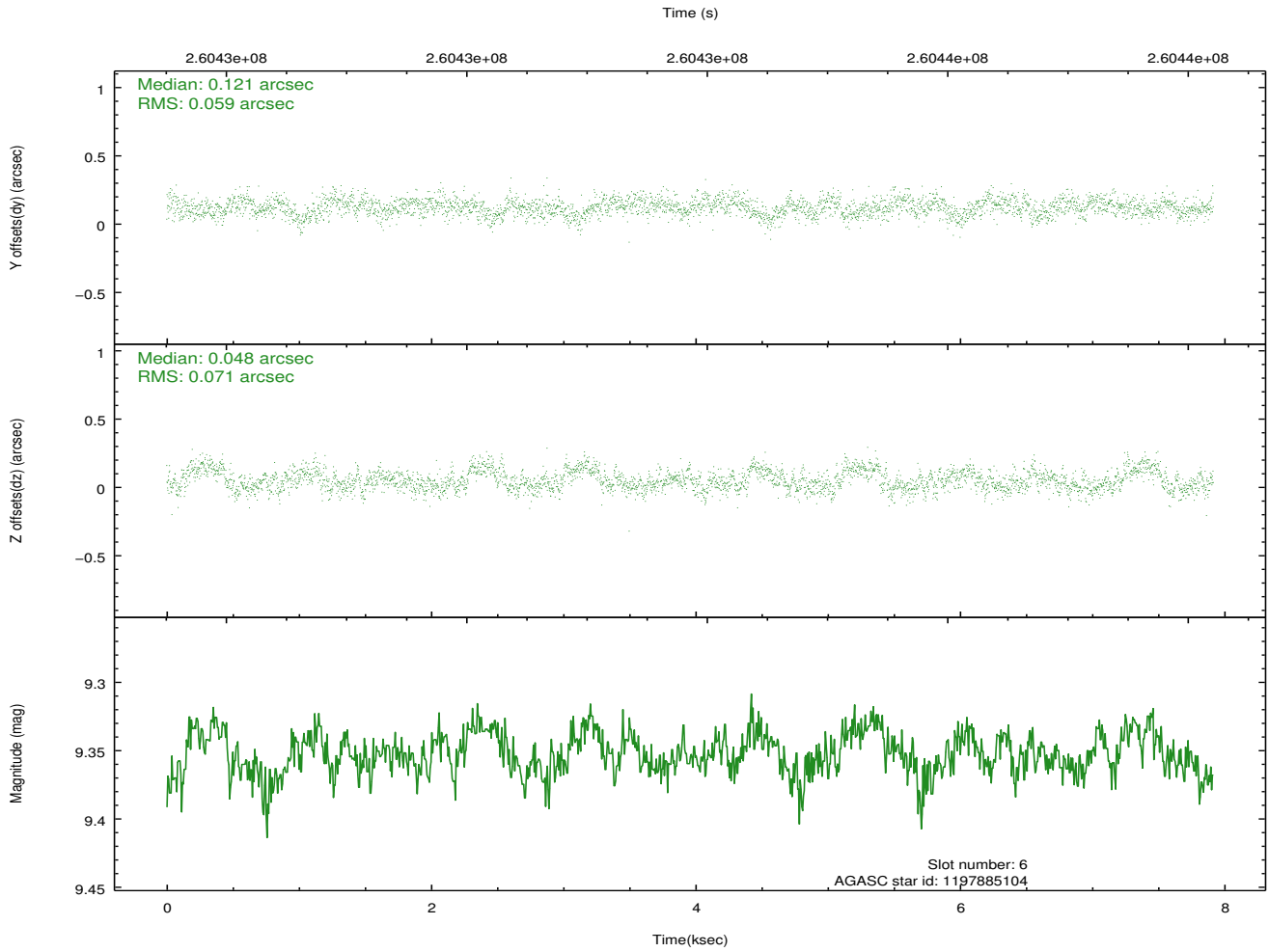
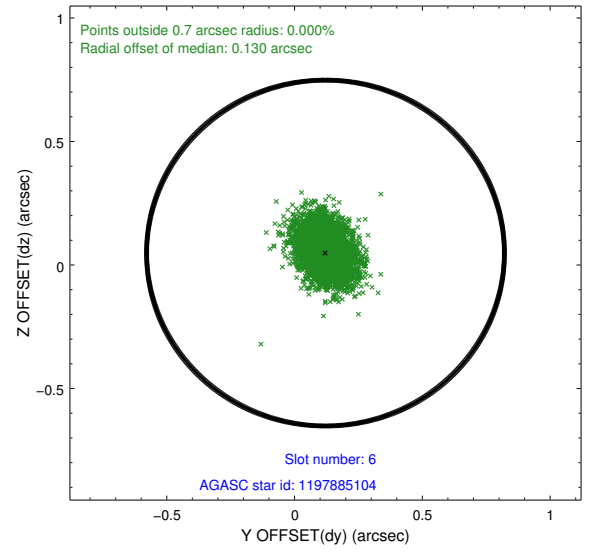
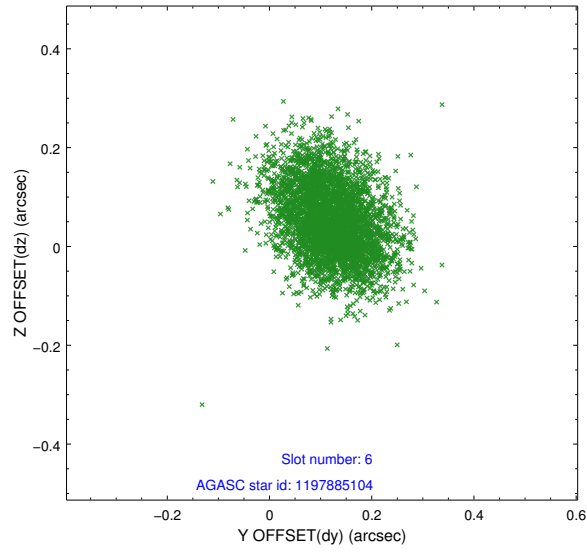
## 2.4.2 Slot 4



### 2.4.3 Slot 5

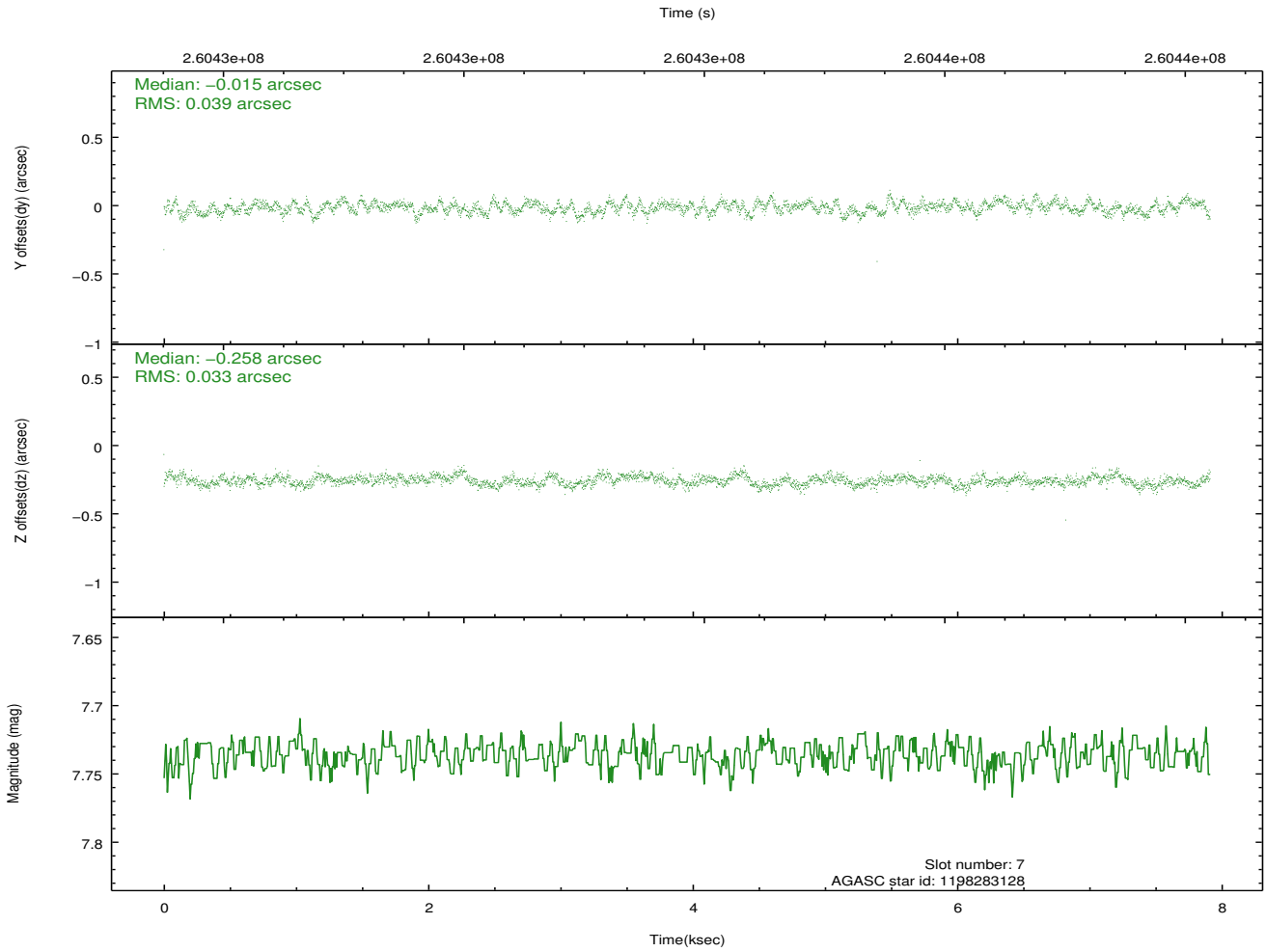
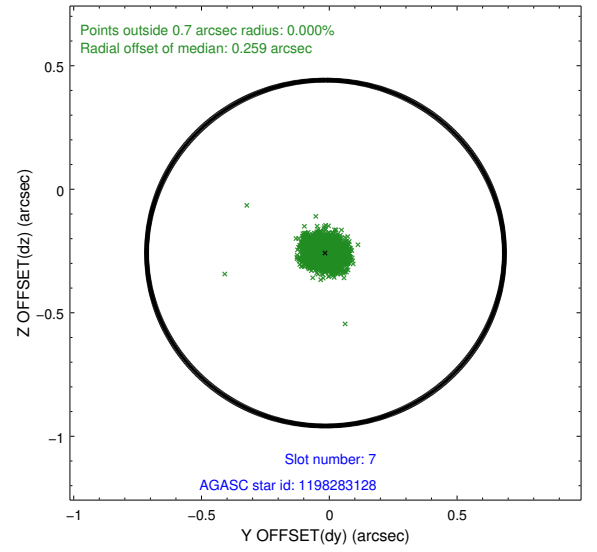
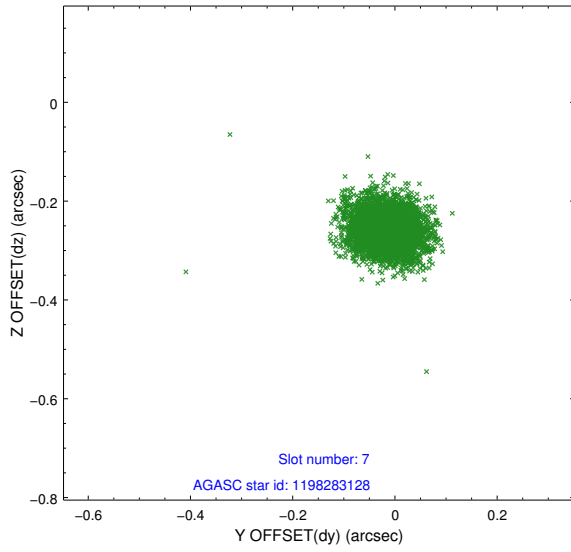


## 2.4.4 Slot 6



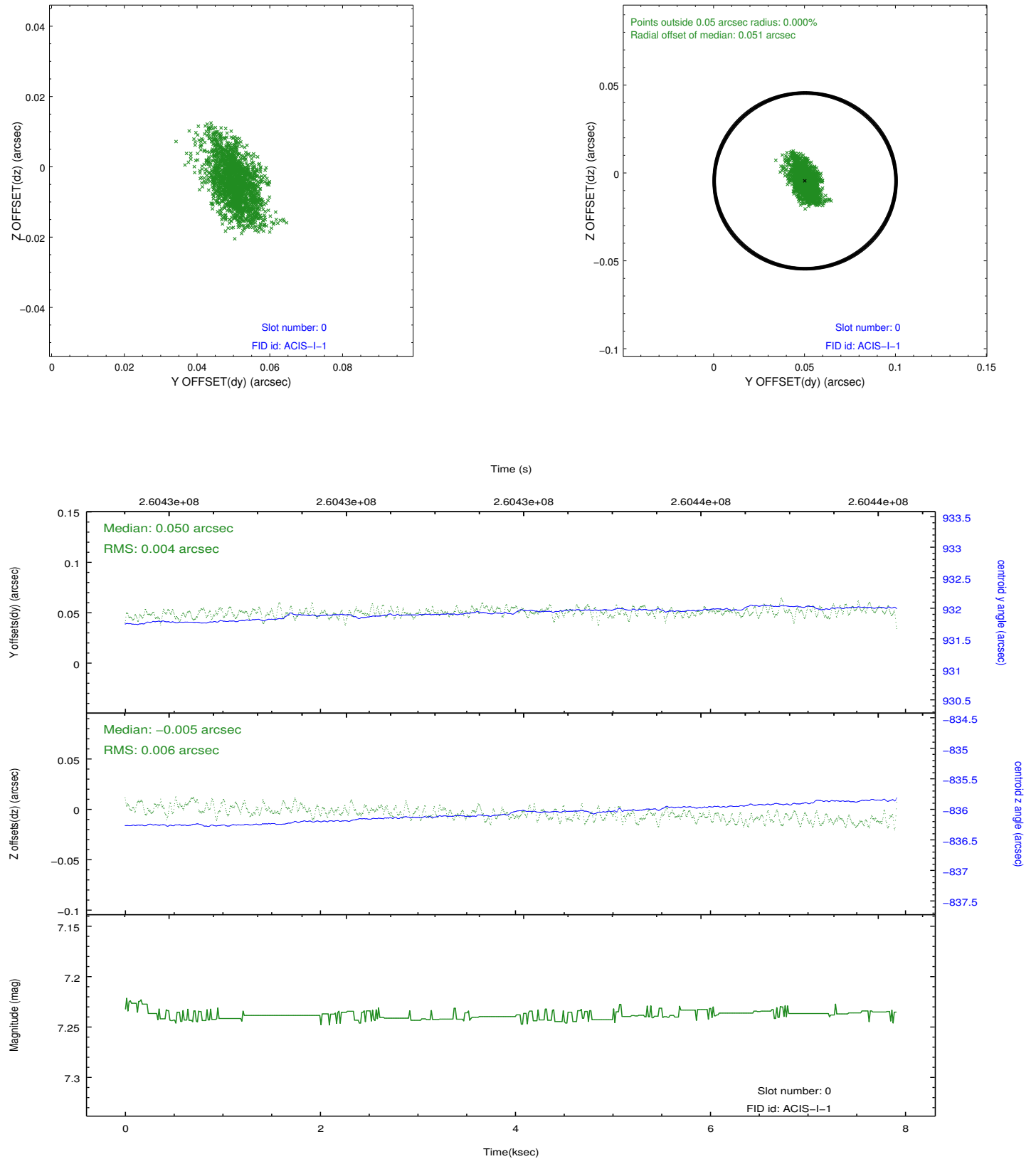


## 2.4.5 Slot 7

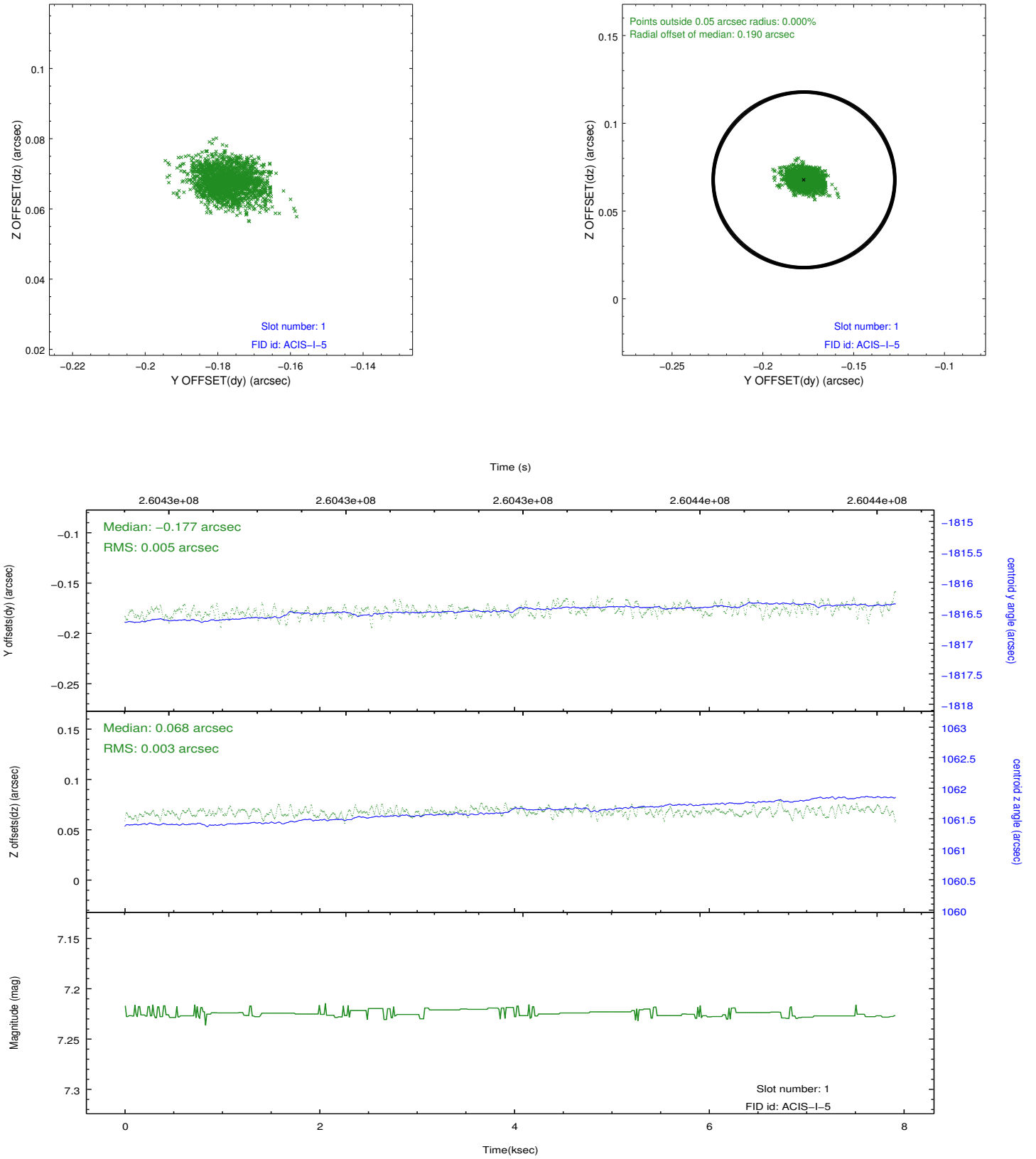


## 2.5 FID Slots

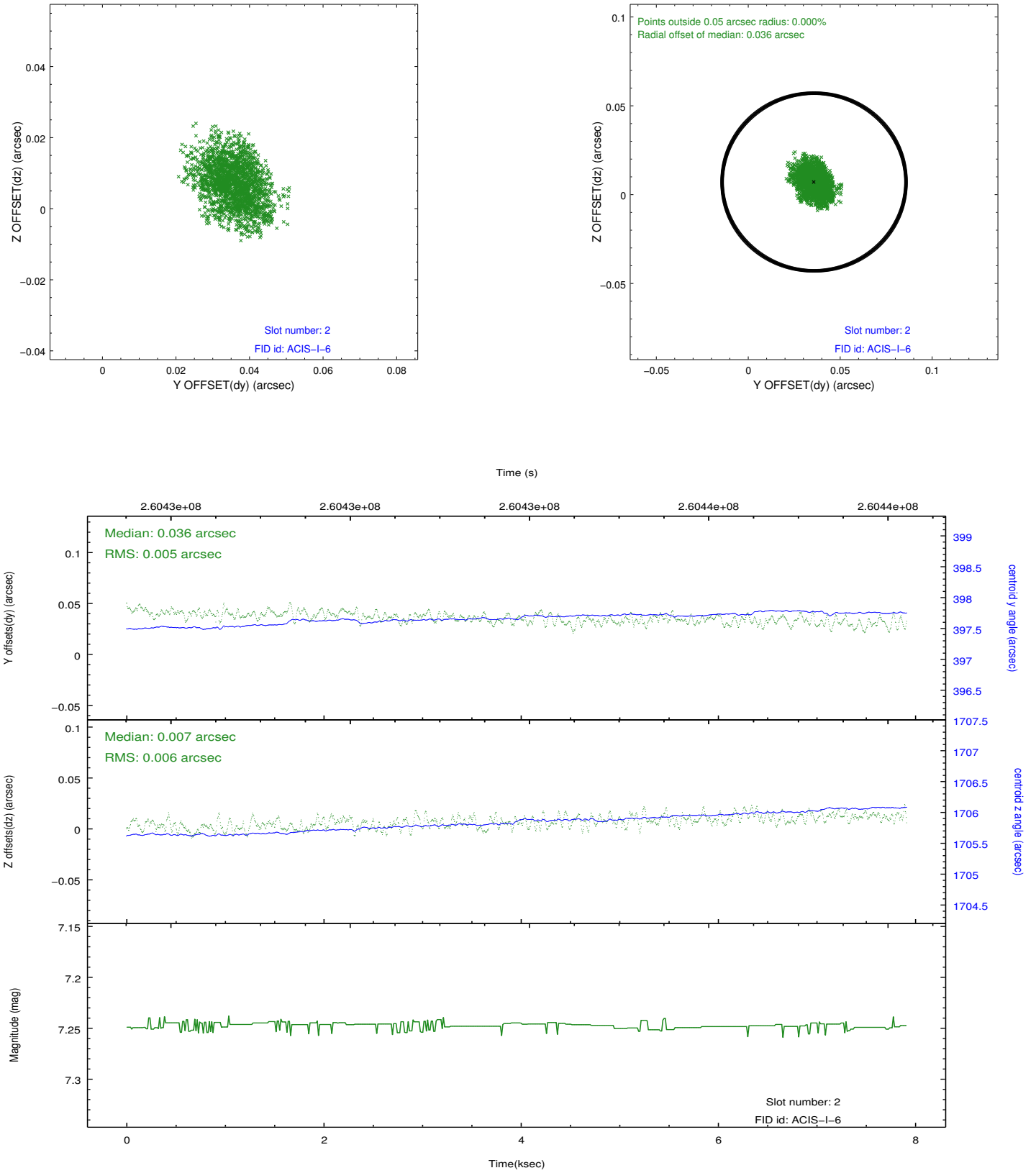
### 2.5.1 Slot 0



## 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)	2012.03.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.37599997

### A.2 Comments

Window constraint met.