

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3032 - L2 Version 3  
Chandra X-Ray Center

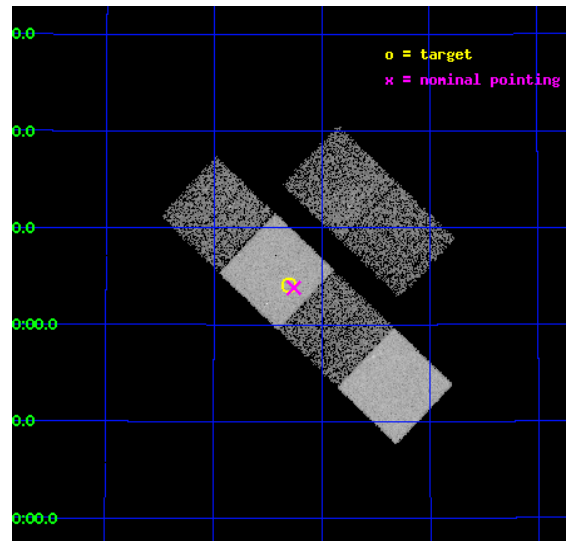
L2 Processing Date : Oct 2 2012

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# 1 Front

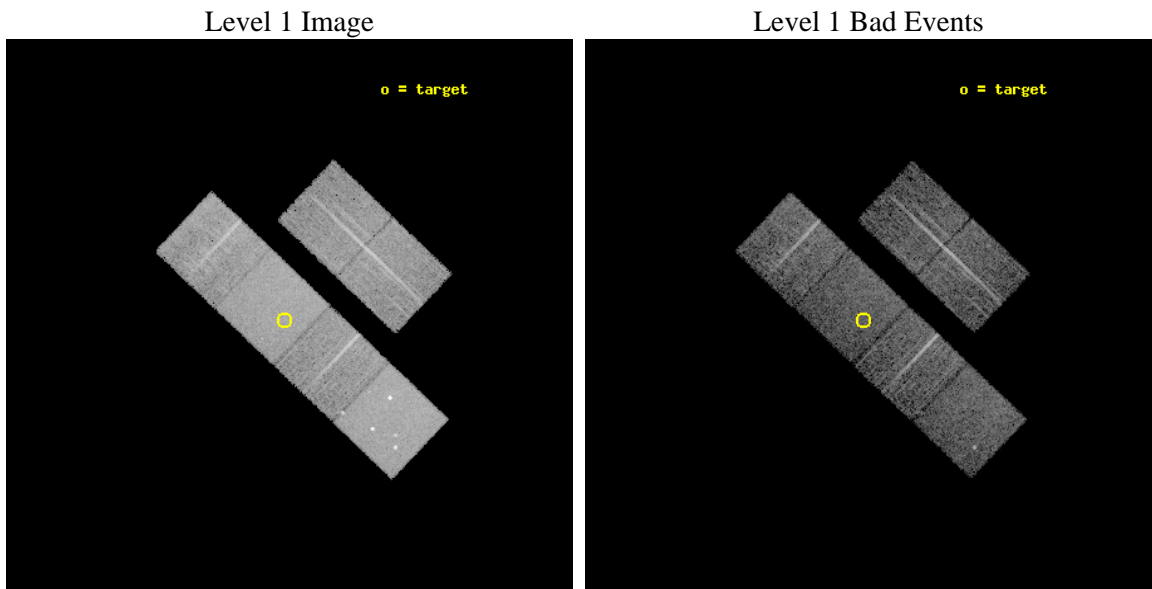
seq_num	700471	Sequence number
obs_id	3032	Observation id
title	A CHANDRA AND XMM-NEWTON STUDY OF THE MOST DISTANT QUASARS: X-RAYING THE FIRST MASSIVE BLACK HOLES	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS075618+410408	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	119.075417	Observer's specified target RA [deg]
dec_targ	41.069056	Observer's specified target Dec [deg]
ra_nom	119.06472905998	Nominal RA [deg]
dec_nom	41.063694201956	Nominal Dec [deg]
roll_nom	223.58237224142	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7419.8843063265	Sum of GTIs [s]
livetime	7325.9292635219	Livetime [s]
ontime2	7419.9253463298	Sum of GTIs [s]
ontime3	7419.7611863315	Sum of GTIs [s]
ontime5	7419.8432663232	Sum of GTIs [s]
ontime6	7419.8022263348	Sum of GTIs [s]
ontime7	7419.8843063265	Sum of GTIs [s]
ontime8	7419.7201463282	Sum of GTIs [s]
l2events	88679	Number of level 2 events



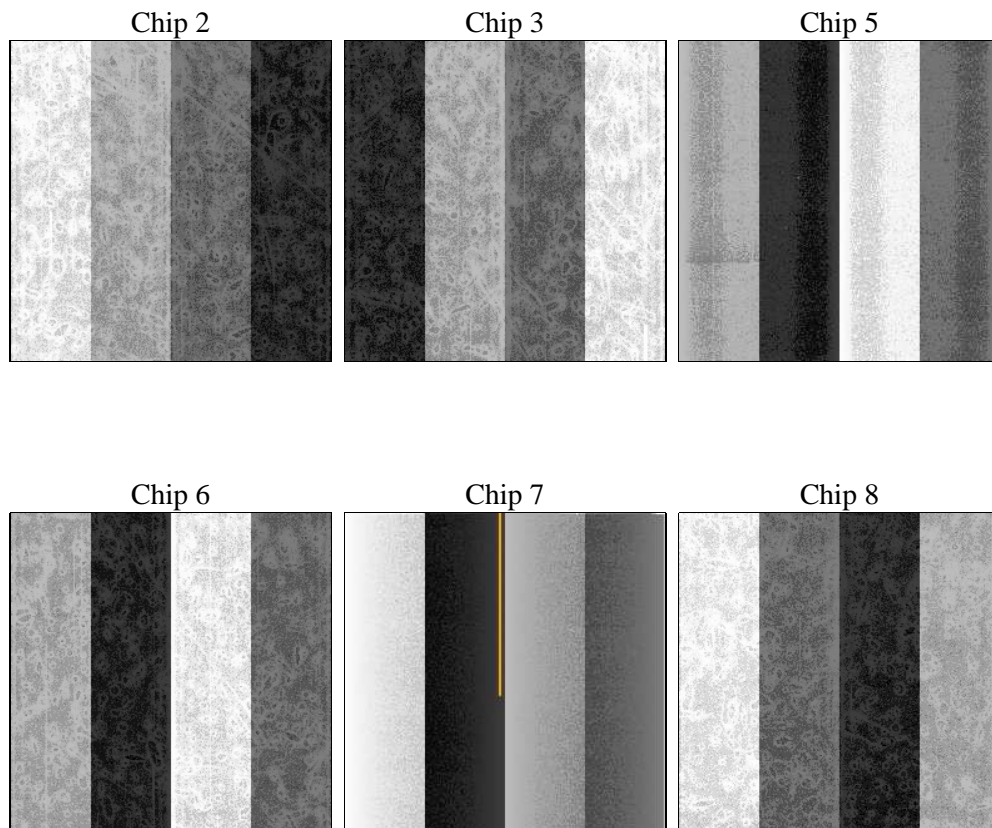
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7459.988000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7419.8843063265	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	7419.9253463298	Sum of GTIs [s]
date	2012-10-02T05:09:00	Date and time of file creation	ontime3	7419.7611863315	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	7419.8432663232	Sum of GTIs [s]
			ontime6	7419.8022263348	Sum of GTIs [s]
			ontime7	7419.8843063265	Sum of GTIs [s]
			ontime8	7419.7201463282	Sum of GTIs [s]
			l1events	356102	Number of level 1 events

### 2.1.4 Events

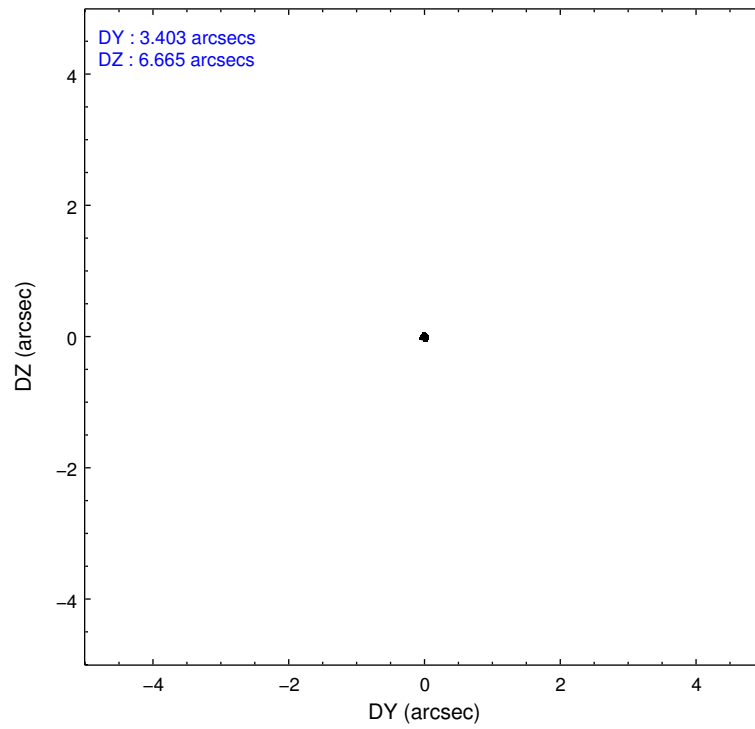
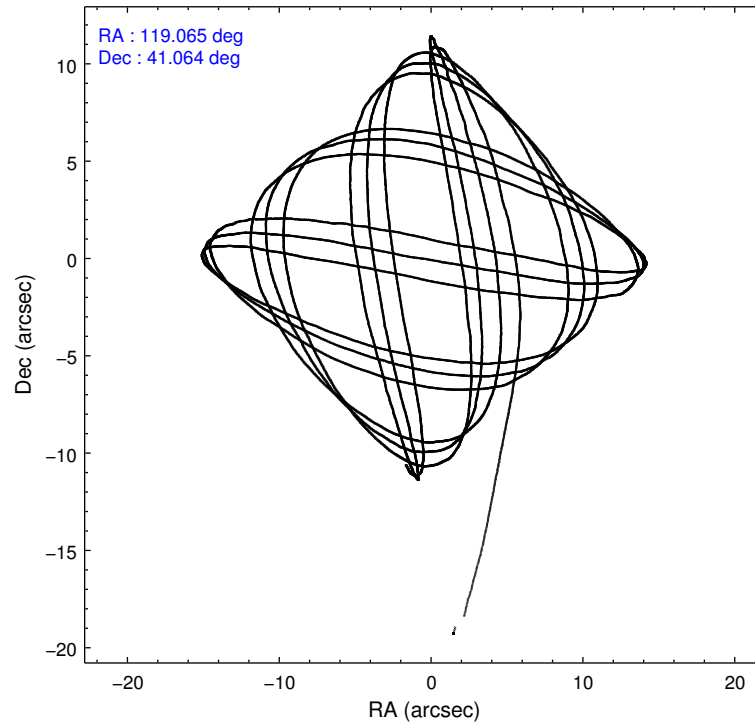
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	49053	46136	80772	49599	69801	60741	grade 0 events	2293	2667	8649	2468	3264	3997
rejected events	43444	40274	38633	43765	37444	48146		4%	5%	10%	4%	4%	6%
rejected %	88%	87%	47%	88%	53%	79%	grade 1 events	16	21	393	31	70	30
								0%	0%	0%	0%	0%	0%
							grade 2 events	1284	1121	10892	1176	6284	2739
								2%	2%	13%	2%	9%	4%
							grade 3 events	544	539	1840	513	2921	1332
								1%	1%	2%	1%	4%	2%
							grade 4 events	493	528	1719	560	2852	1198
								1%	1%	2%	1%	4%	1%
							grade 5 events	1689	1902	5464	2092	6150	2645
								3%	4%	6%	4%	8%	4%
							grade 6 events	1001	1015	19065	1122	17060	3331
								2%	2%	23%	2%	24%	5%
							grade 7 events	41733	38343	32750	41637	31200	45469
								85%	83%	40%	83%	44%	74%

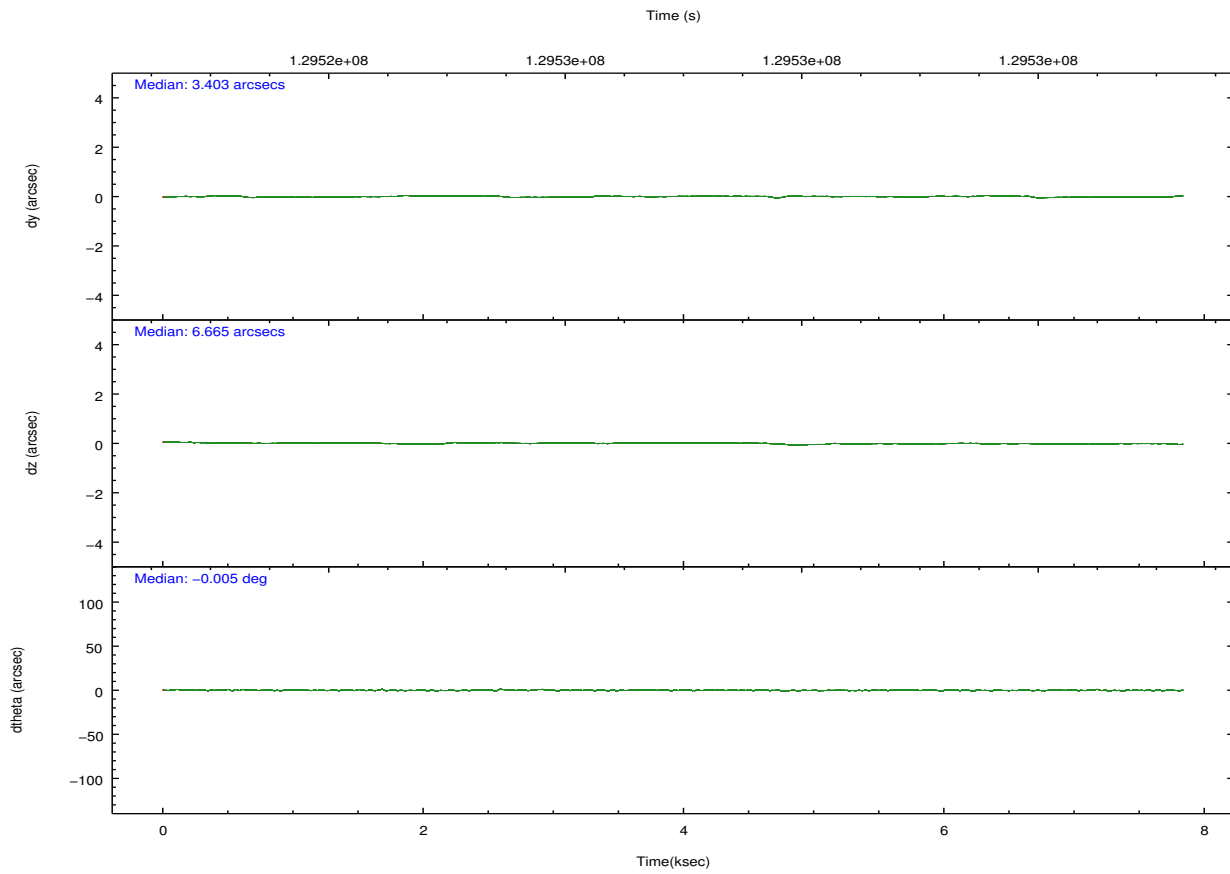
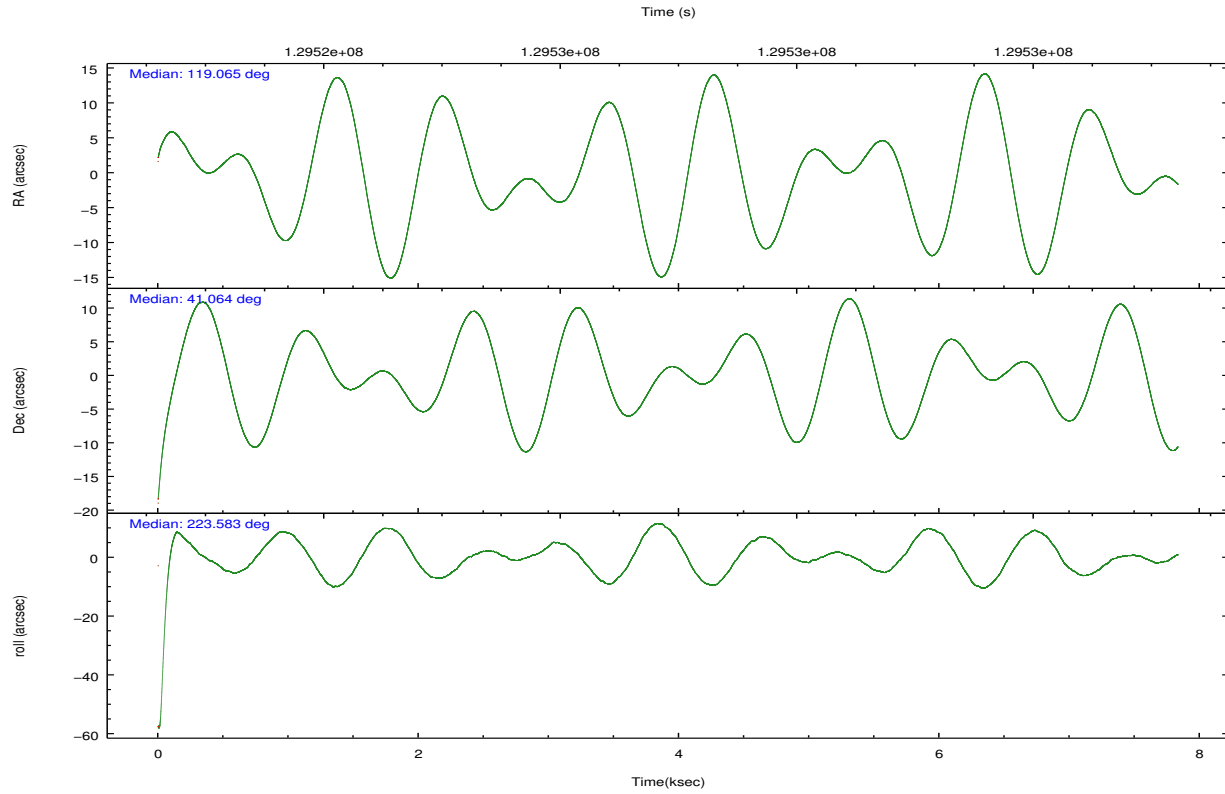


## 2.2 Compared Parameters

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	119.074465	119.0647290599813	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.089944	41.06369420195644	Alternating exposures requested	N	N
[deg] Pointing Roll	223.419459	223.5823722414191	[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)	129523369.184000	129522296.43186			
Observation start date	2002-02-08T02:41:45	2002-02-08T02:24:56			
[s] Observation end time (MET)	129530829.184000	129531143.71971			
Observation end date	2002-02-08T04:46:05	2002-02-08T04:52:23			
Read mode	TIMED	TIMED			

## 2.3 Aspect



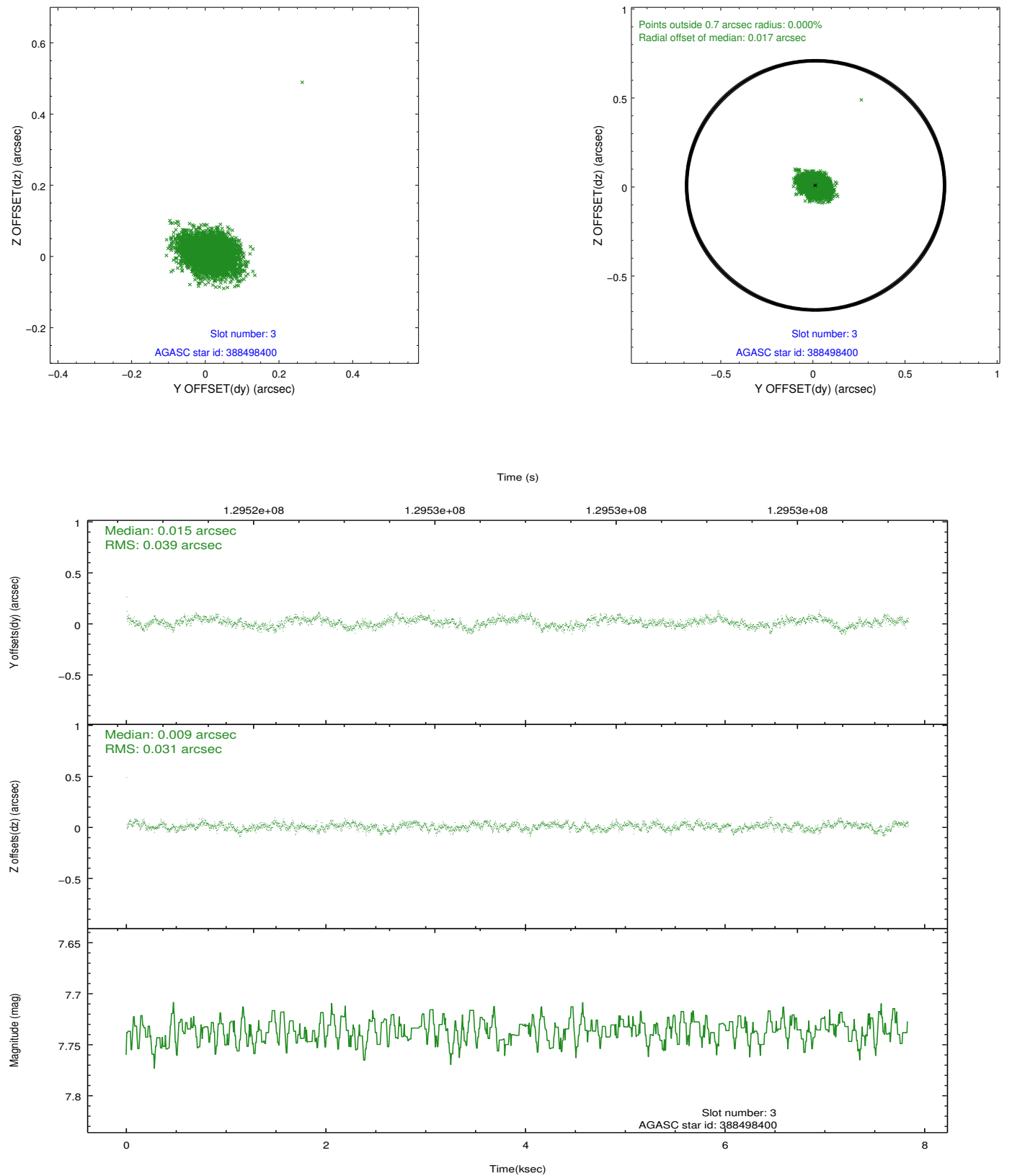


### Slot Statistics

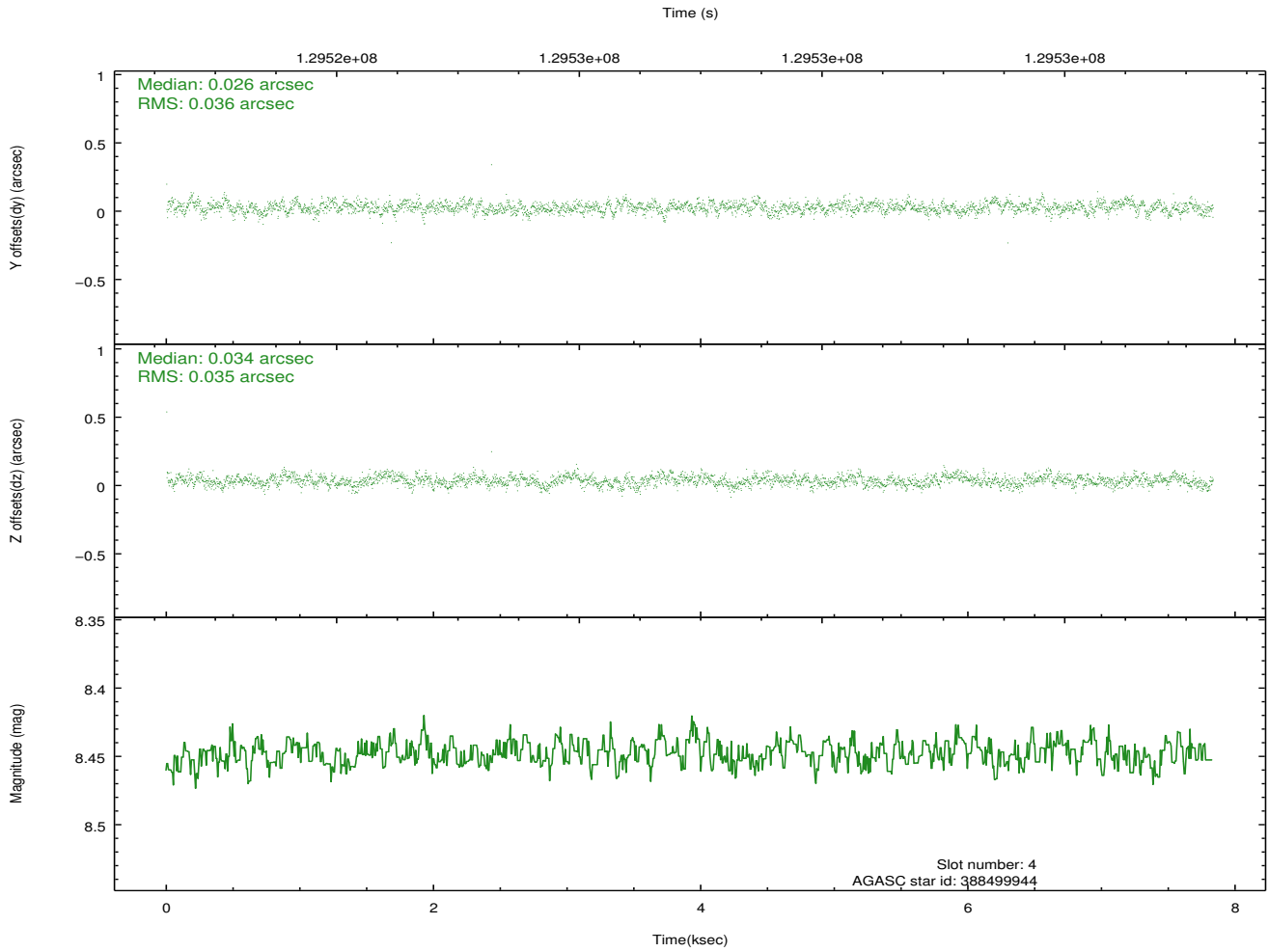
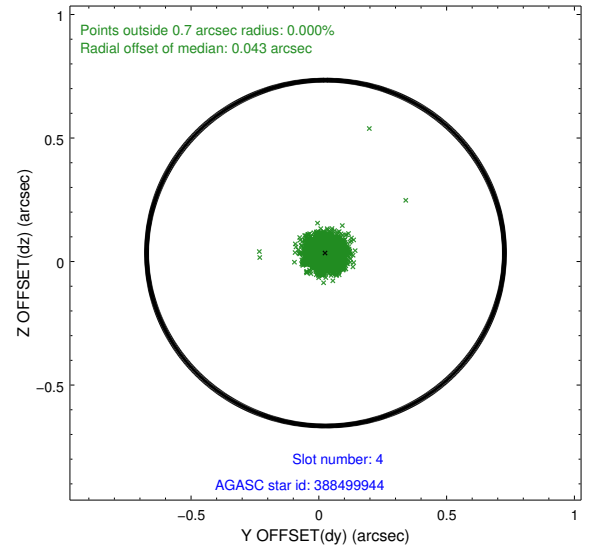
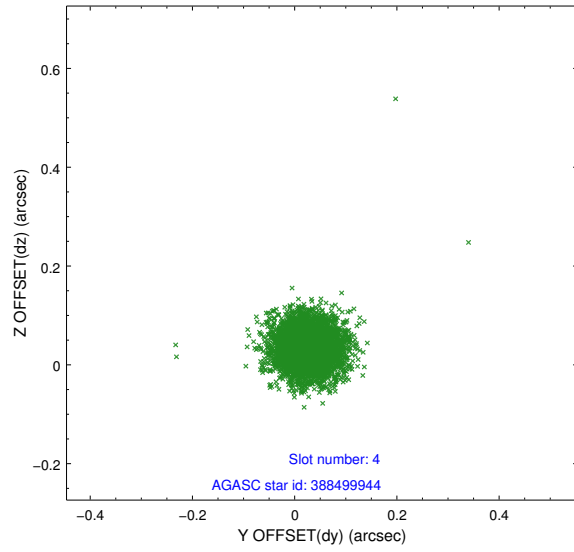
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1911	-0.023	0.006	0.006	0.011	0.000000	0.000000	-756.05	-1727.77
1	FID	ACIS-S-4	7.20	1911	-0.006	0.009	0.005	0.010	0.000000	0.000000	2156.89	180.01
2	FID	ACIS-S-5	7.24	1911	-0.003	-0.007	0.006	0.011	0.000000	0.000000	-1807.97	174.43
3	GUIDE	388498400	7.74	3821	0.015	0.009	0.052	0.086	118.910707	40.300137	2282.10	1756.56
4	GUIDE	388499944	8.45	3821	0.026	0.034	0.052	0.083	118.838884	40.356702	2285.23	1473.68
5	GUIDE	388501392	8.74	3820	0.040	-0.041	0.057	0.094	118.450303	41.022147	1397.04	-991.34
6	GUIDE	389030752	8.96	3821	-0.071	-0.021	0.065	0.109	119.414766	41.315571	-1226.14	41.53
7	GUIDE	389031904	9.16	3815	-0.009	0.021	0.062	0.104	119.755165	41.478592	-2299.02	241.15

## 2.4 Star Slots

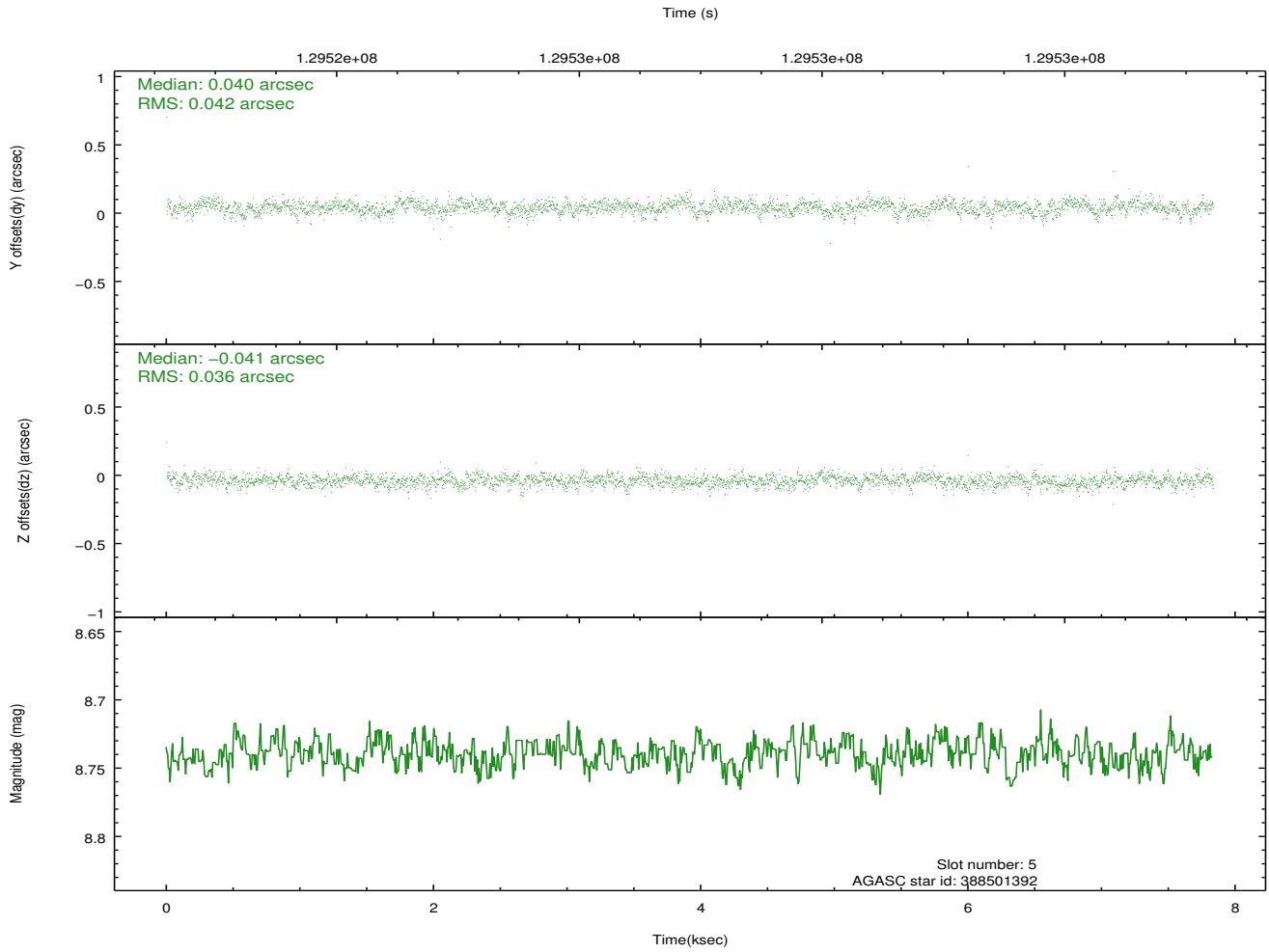
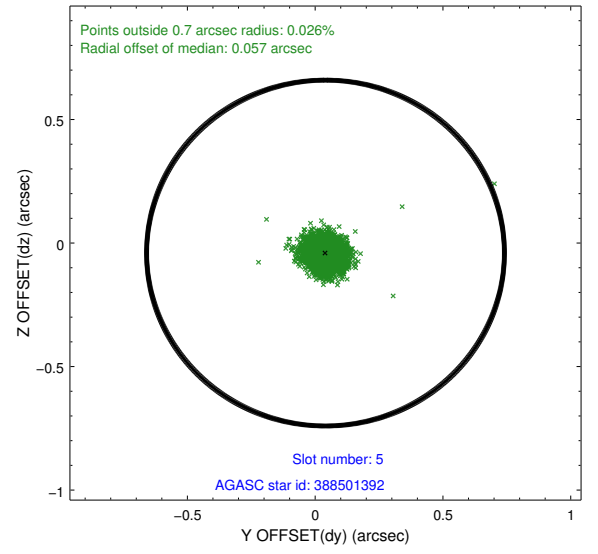
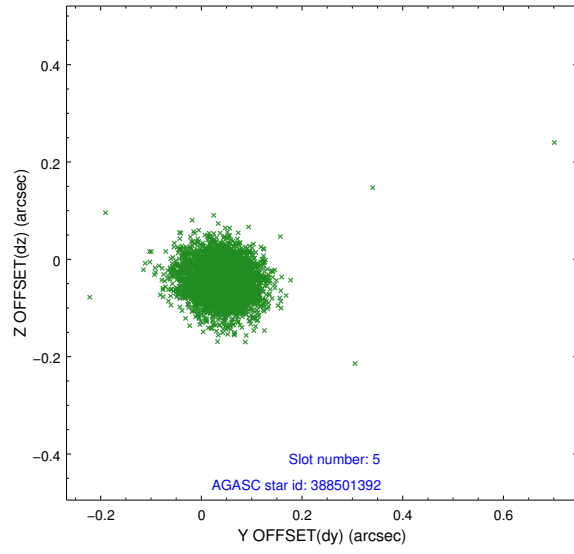
### 2.4.1 Slot 3



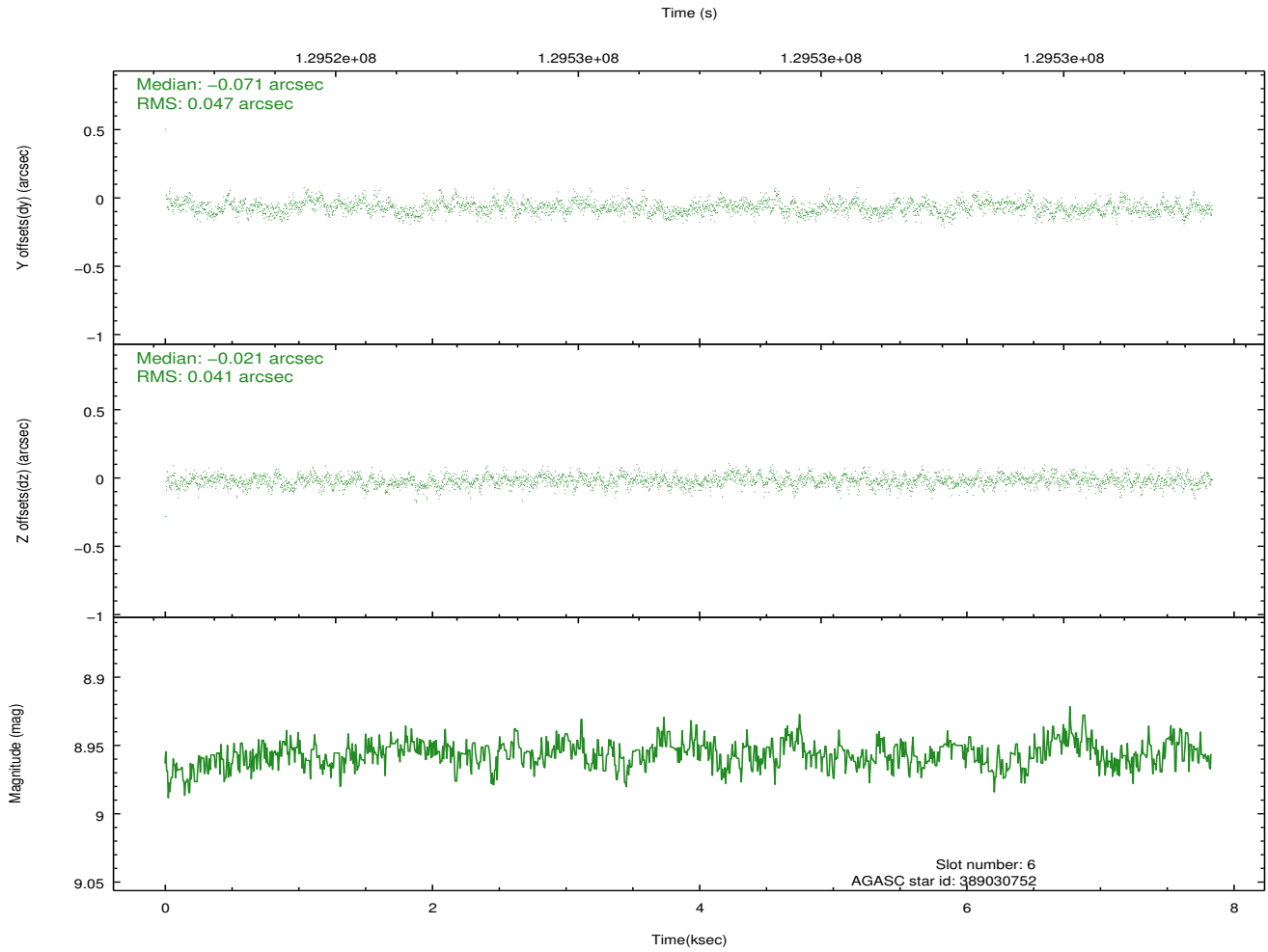
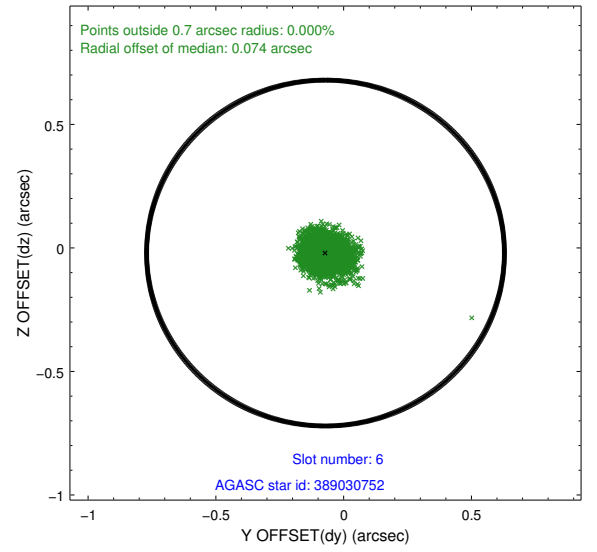
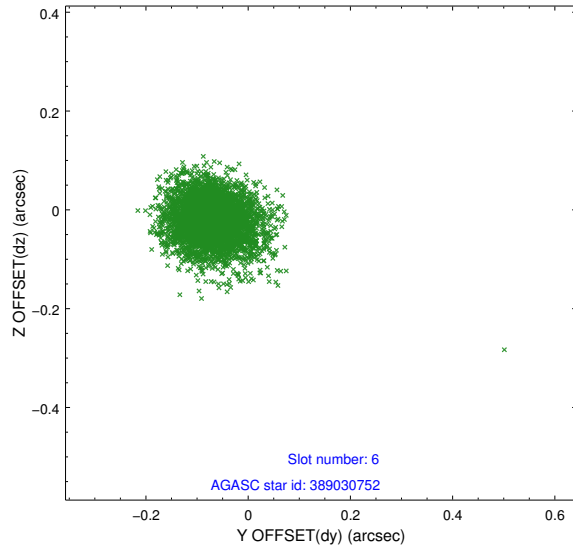
## 2.4.2 Slot 4



### 2.4.3 Slot 5

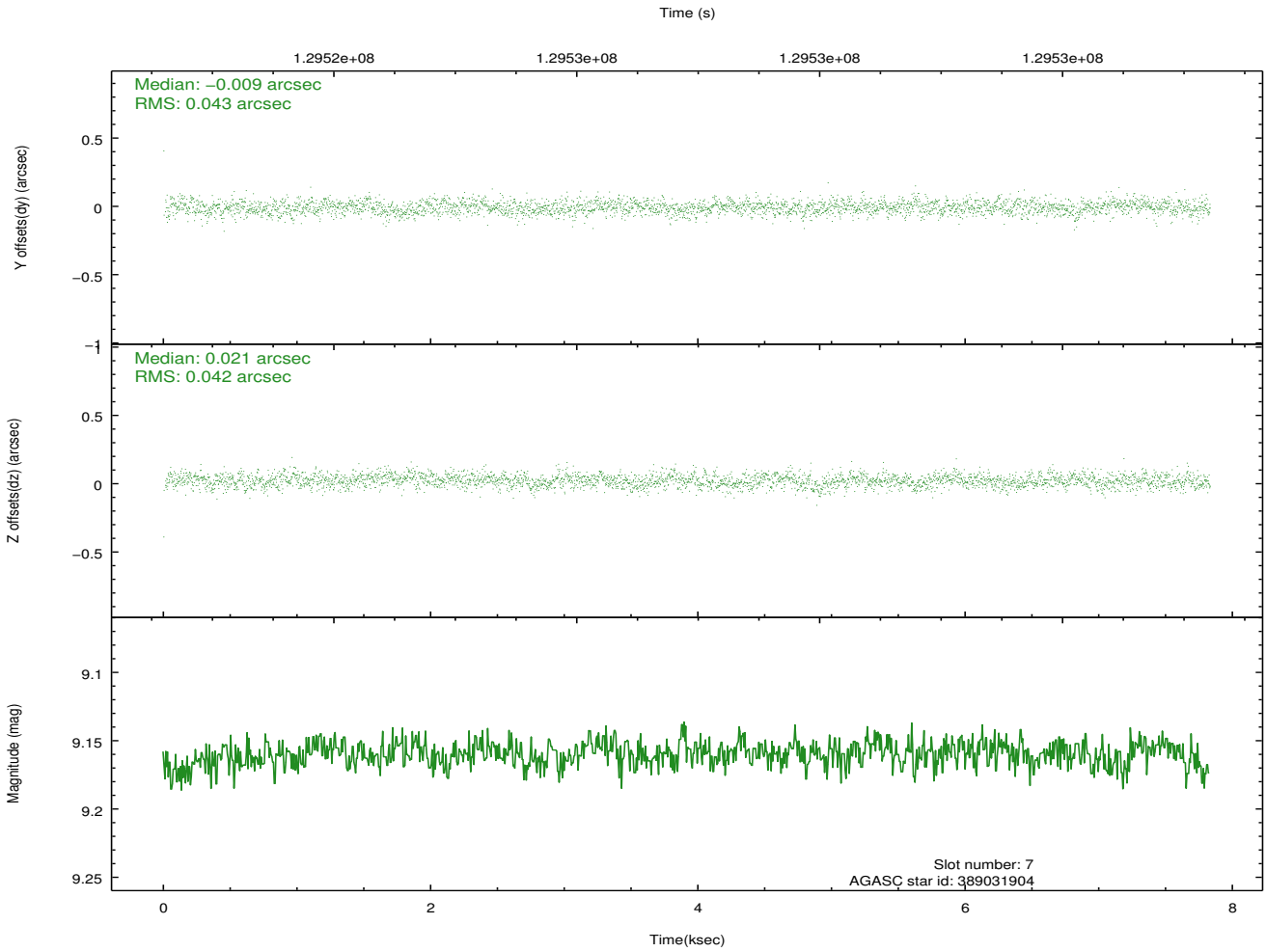
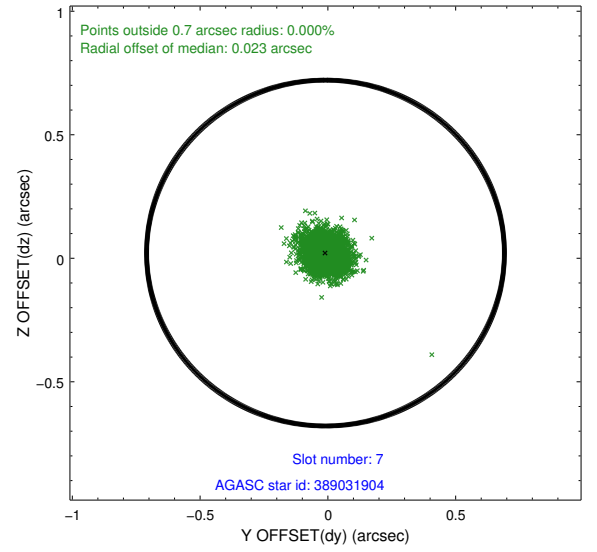
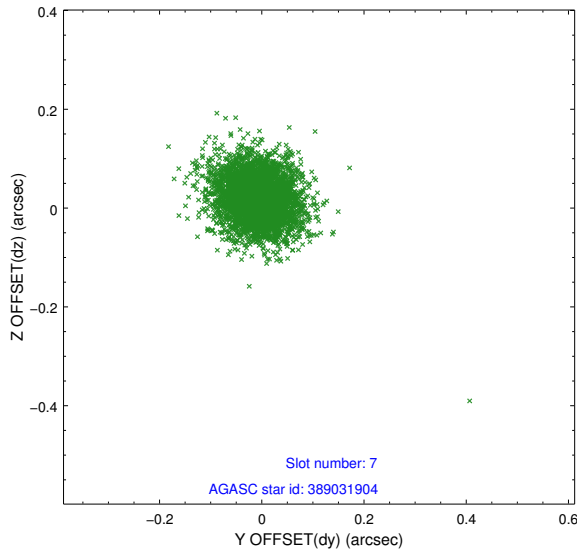


## 2.4.4 Slot 6



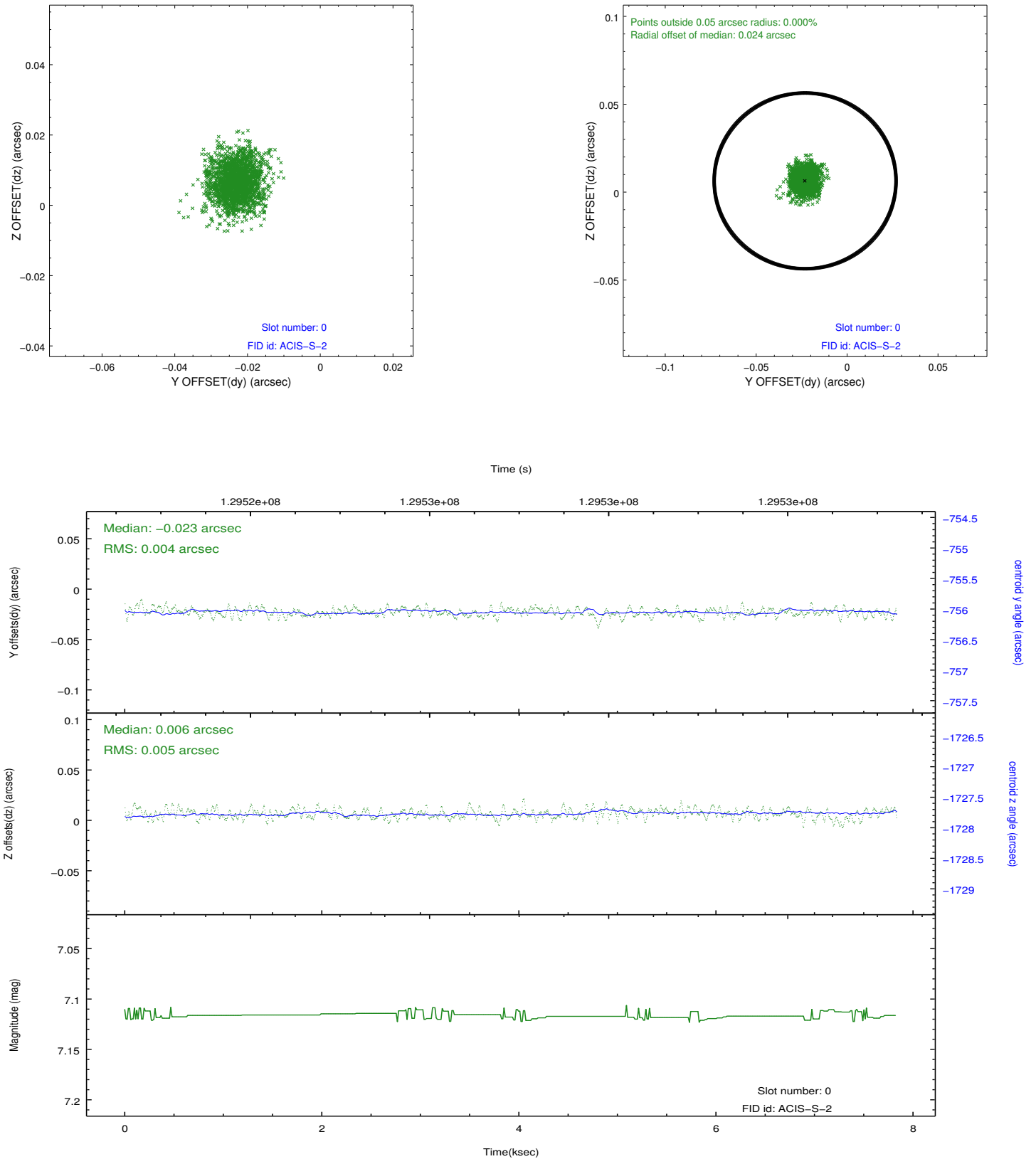


## 2.4.5 Slot 7

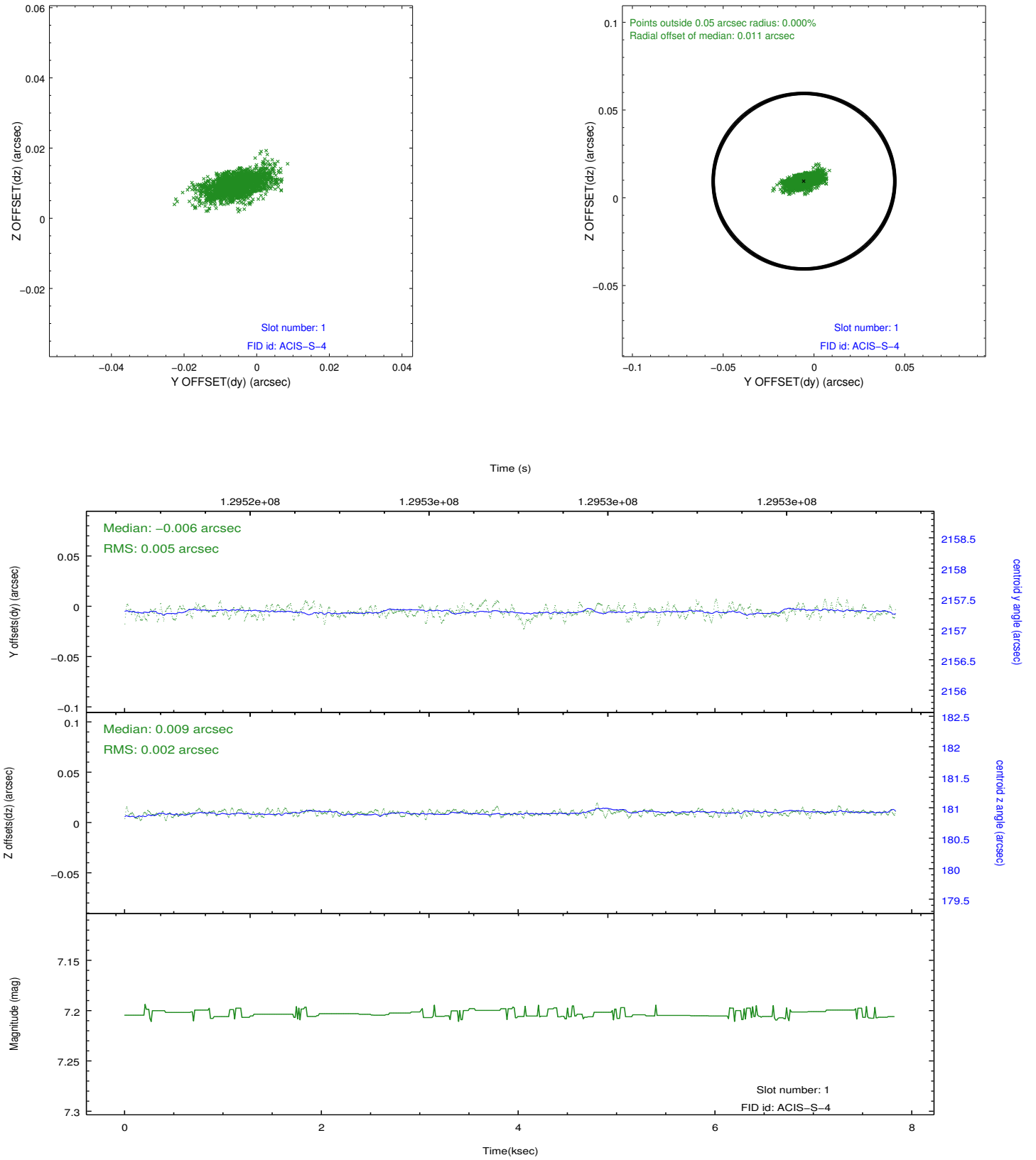


## 2.5 FID Slots

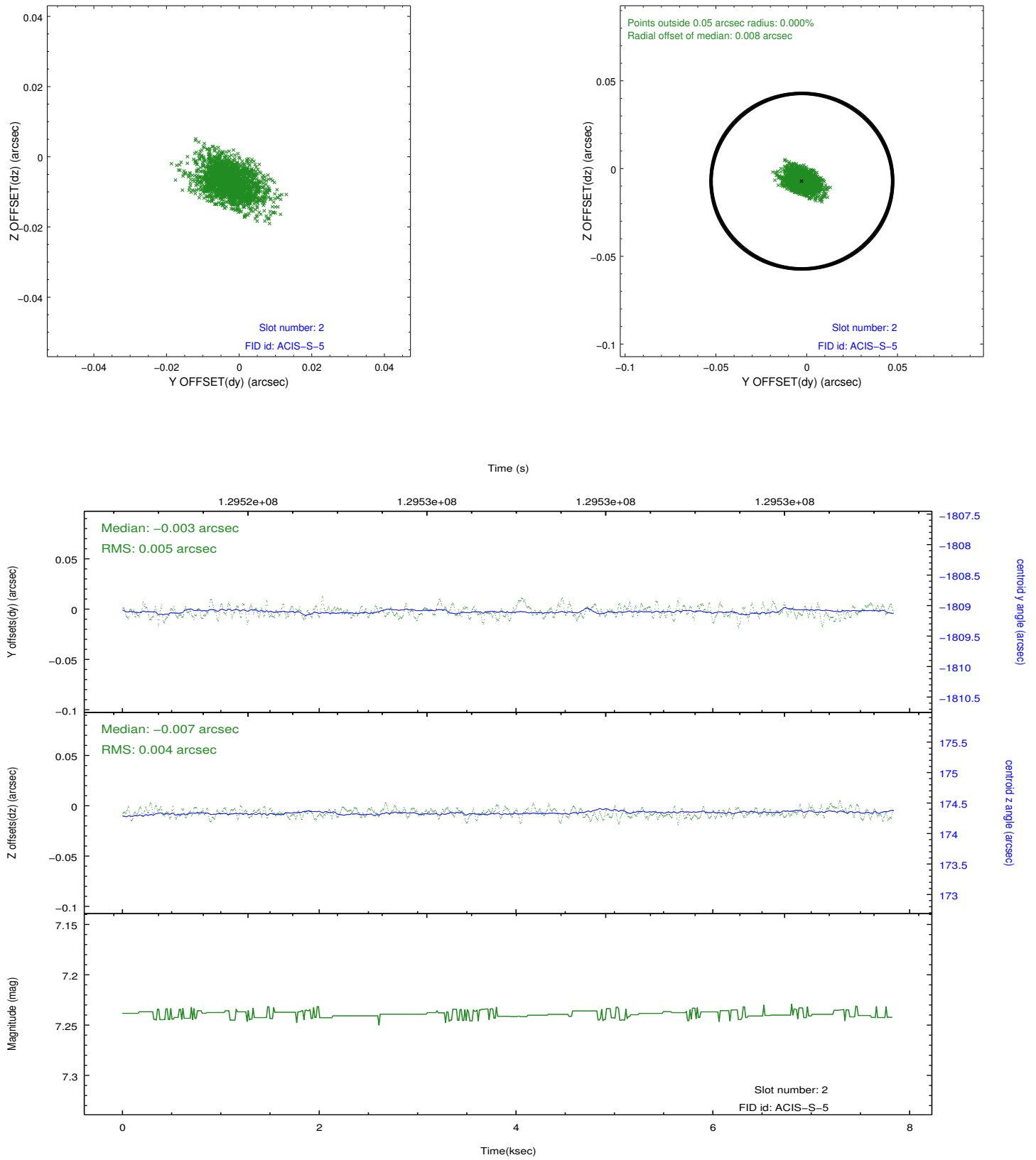
### 2.5.1 Slot 0



## 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)	2012.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.42

### A.2 Comments