

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8955 - L2 Version 2  
Chandra X-Ray Center

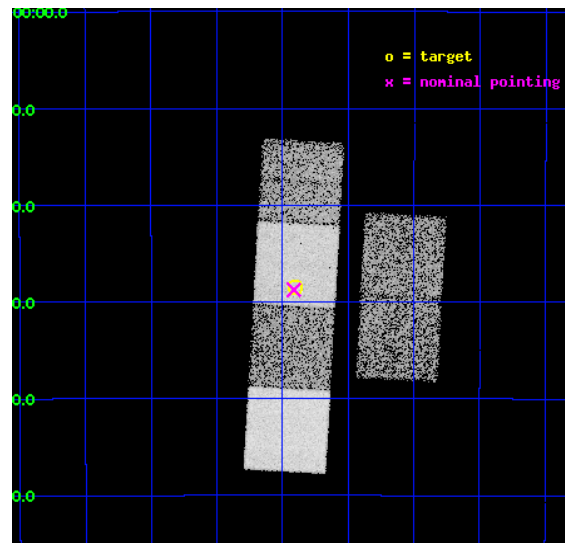
L2 Processing Date : May 25 2012

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# 1 Front

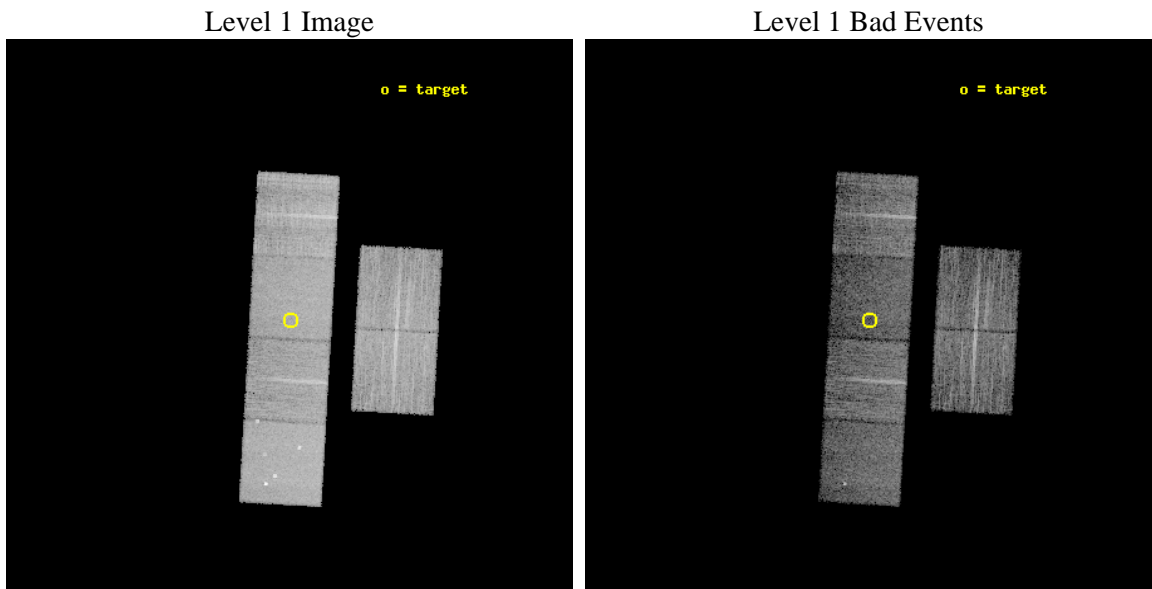
seq_num	300211	Sequence number
obs_id	8955	Observation id
title	A Chandra Legacy Survey of Dynamically Active Globular Clusters	Pr
observer	Prof. David Pooley	Principal investigator
object	NGC 6642	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	277.975417	Observer's specified target RA [deg]
dec_targ	-23.475278	Observer's specified target Dec [deg]
ra_nom	277.97845938881	Nominal RA [deg]
dec_nom	-23.479320785986	Nominal Dec [deg]
roll_nom	273.24890557668	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7750.3999711871	Sum of GTIs [s]
livetime	7652.2597400214	Livetime [s]
ontime2	7750.3999711871	Sum of GTIs [s]
ontime3	7743.9180505276	Sum of GTIs [s]
ontime5	7750.3999711871	Sum of GTIs [s]
ontime6	7750.3999711871	Sum of GTIs [s]
ontime7	7750.3999711871	Sum of GTIs [s]
ontime8	7750.3999711871	Sum of GTIs [s]
l2events	99040	Number of level 2 events



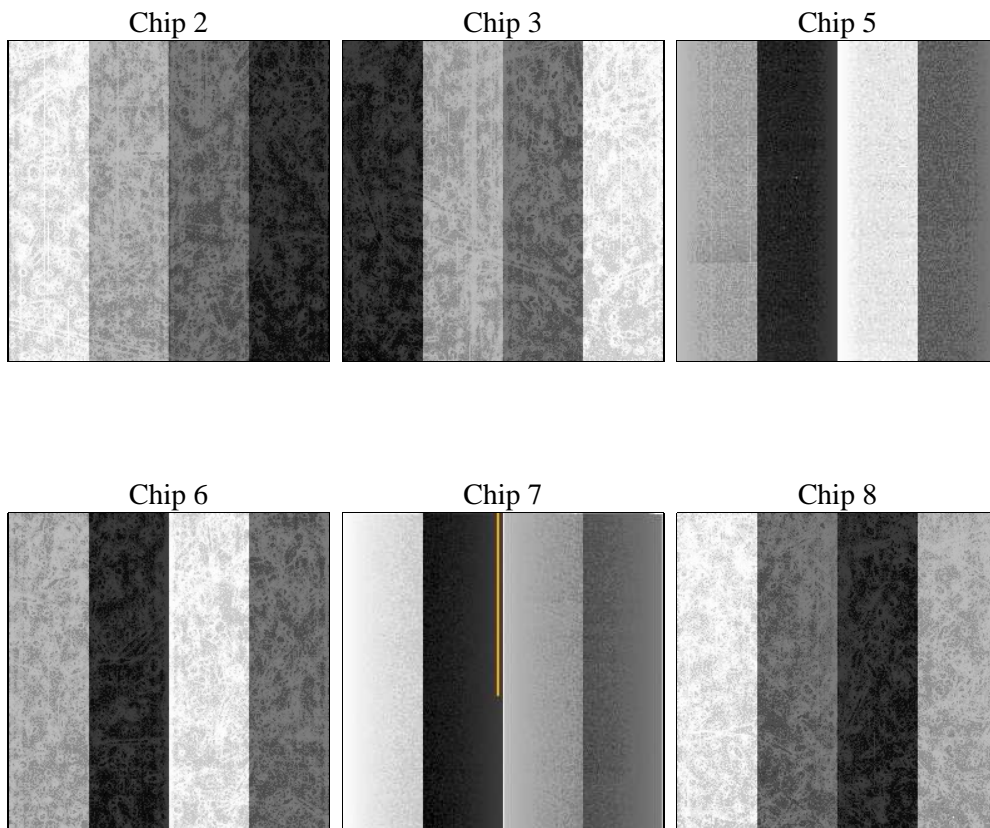
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	7750.3999711871	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	7750.3999711871	Sum of GTIs [s]
date	2012-05-25T05:17:50	Date and time of file creation	ontime3	7743.9180505276	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	7750.3999711871	Sum of GTIs [s]
			ontime6	7750.3999711871	Sum of GTIs [s]
			ontime7	7750.3999711871	Sum of GTIs [s]
			ontime8	7750.3999711871	Sum of GTIs [s]
			l1events	453536	Number of level 1 events

### 2.1.4 Events

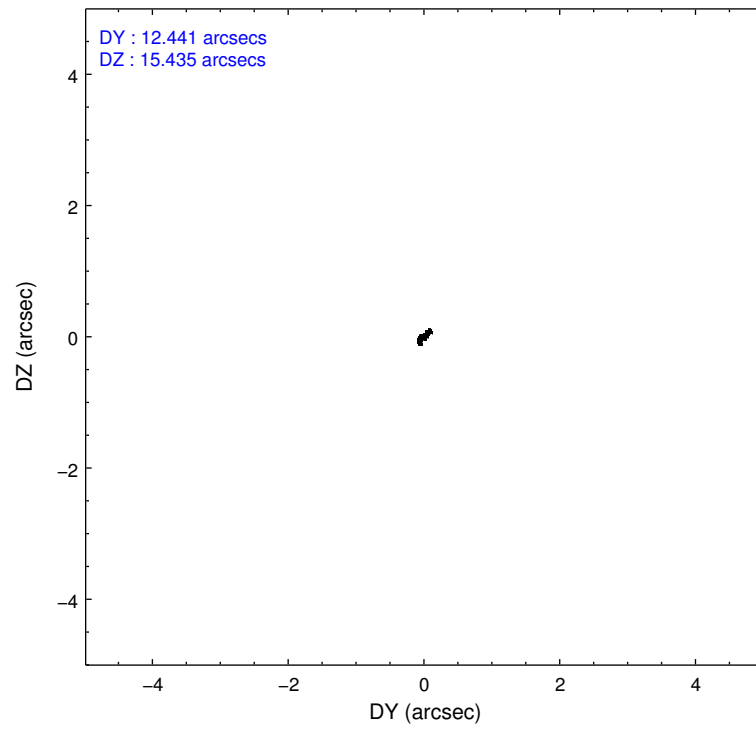
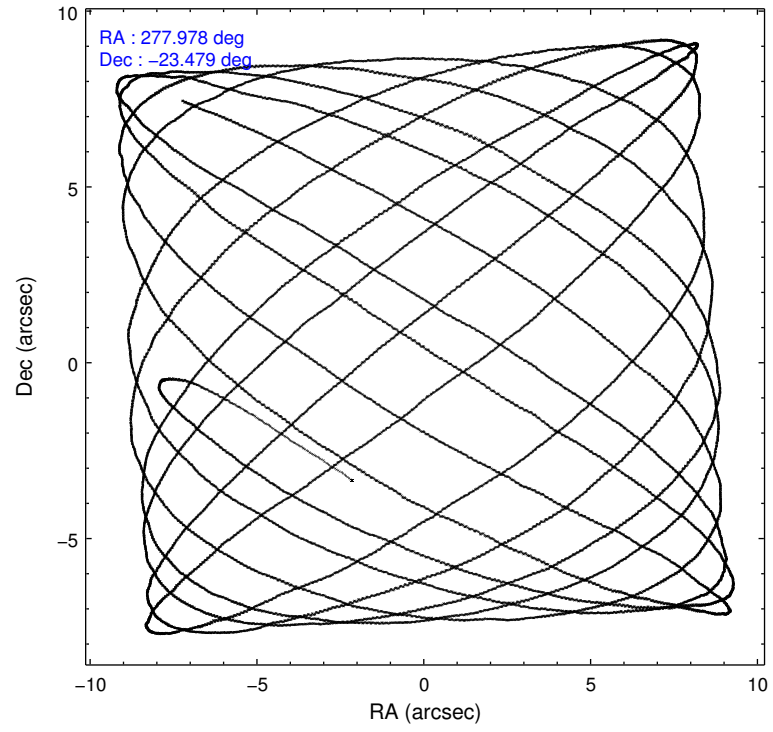
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	69381	62715	95846	66304	75301	83989	grade 0 events	2623	2519	6170	3032	3678	6960
rejected events	62891	56545	49549	59213	41913	63776		3%	4%	6%	4%	4%	8%
rejected %	90%	90%	51%	89%	55%	75%	grade 1 events	43	34	232	38	99	90
								0%	0%	0%	0%	0%	0%
							grade 2 events	1551	1372	14447	1510	7162	4724
								2%	2%	15%	2%	9%	5%
							grade 3 events	657	665	2237	712	3194	2330
								0%	1%	2%	1%	4%	2%
							grade 4 events	686	685	1883	742	3230	2136
								0%	1%	1%	1%	4%	2%
							grade 5 events	2110	2558	7388	2709	7893	3933
								3%	4%	7%	4%	10%	4%
							grade 6 events	1298	1256	24036	1494	17935	5262
								1%	2%	25%	2%	23%	6%
							grade 7 events	60413	53626	39453	56067	32110	58554
								87%	85%	41%	84%	42%	69%

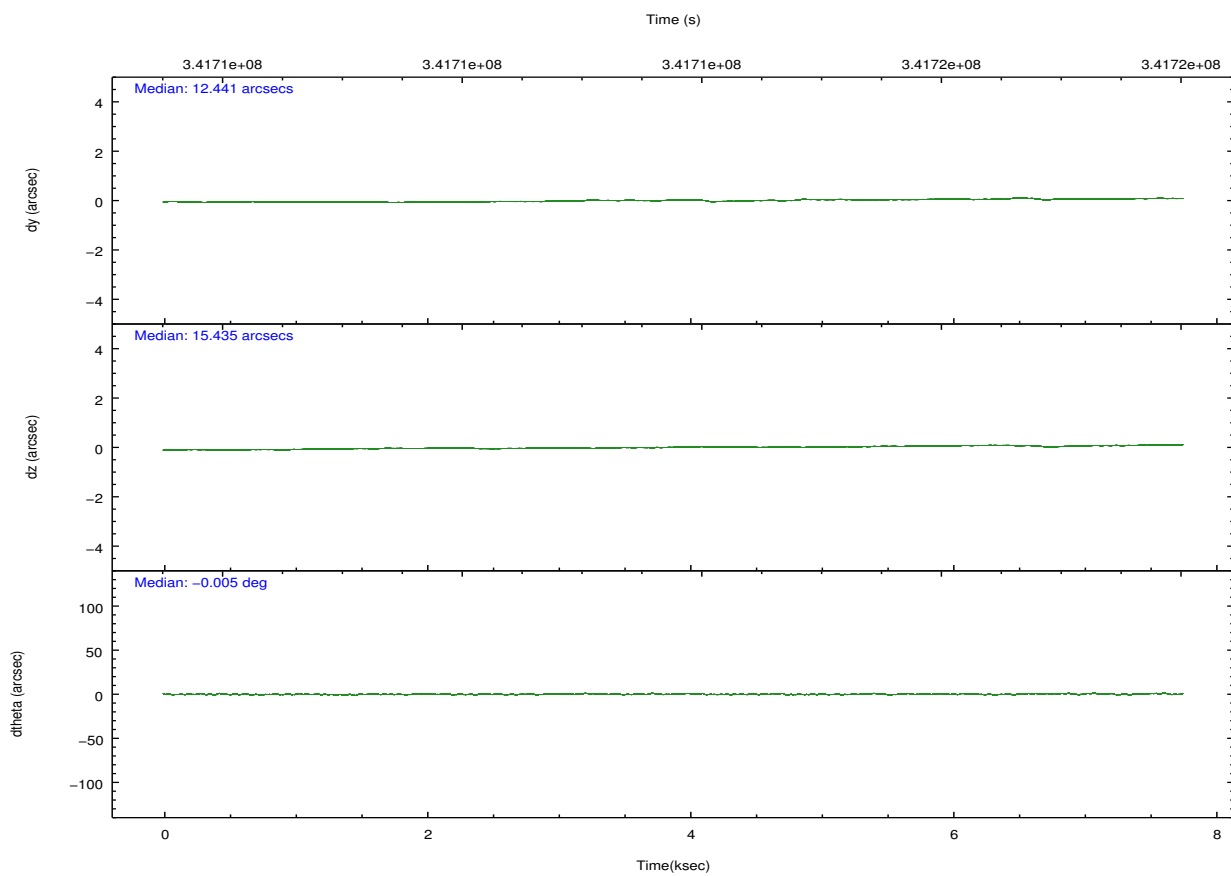
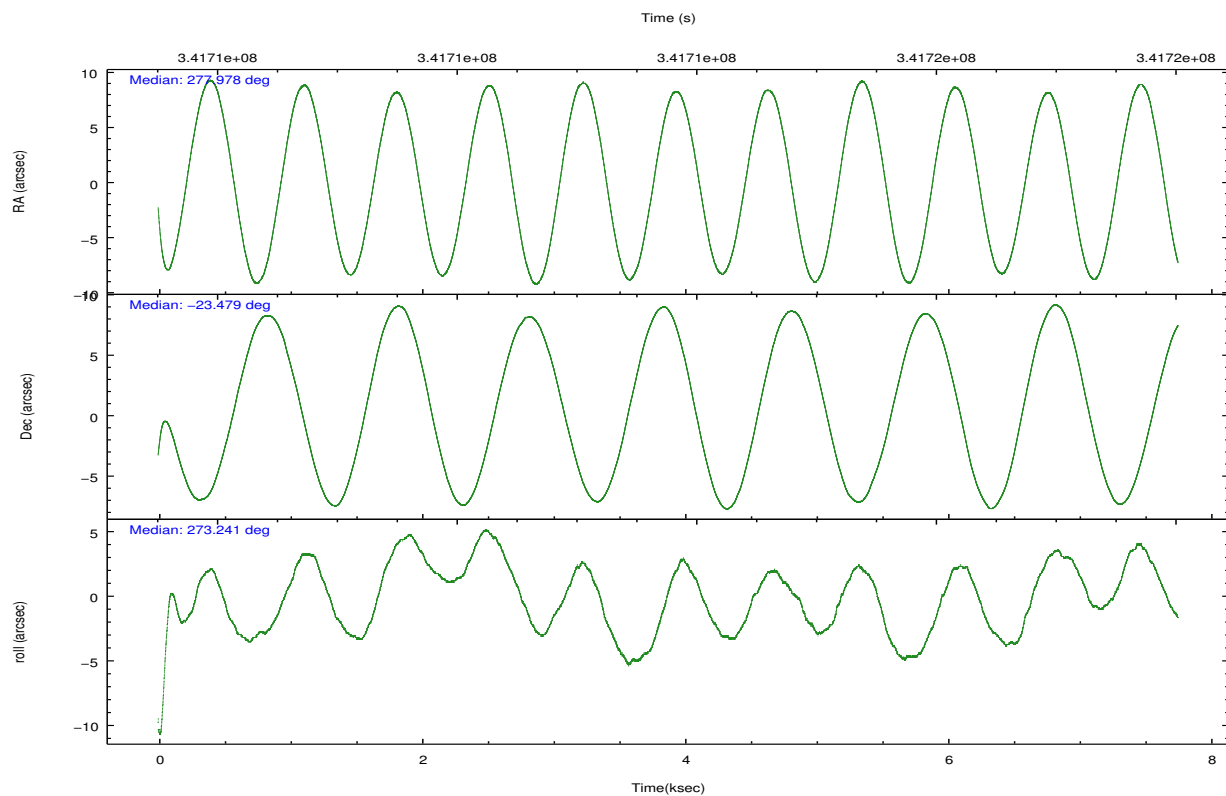


## 2.2 Compared Parameters

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	277.961767	277.9784593888136	CCD I2 on	O1	Y
[deg] Pointing Dec	-23.456595	-23.47932078598619	CCD I3 on	O2	Y
[deg] Pointing Roll	273.085659	273.2489055766823	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	341710030.184000	341708765.82869	CCD S5 on	N	N
Observation start date	2008-10-29T23:26:05	2008-10-29T23:06:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	341717630.184000	341717892.94164	On-chip summing requested	N	N
Observation end date	2008-10-30T01:32:45	2008-10-30T01:38:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



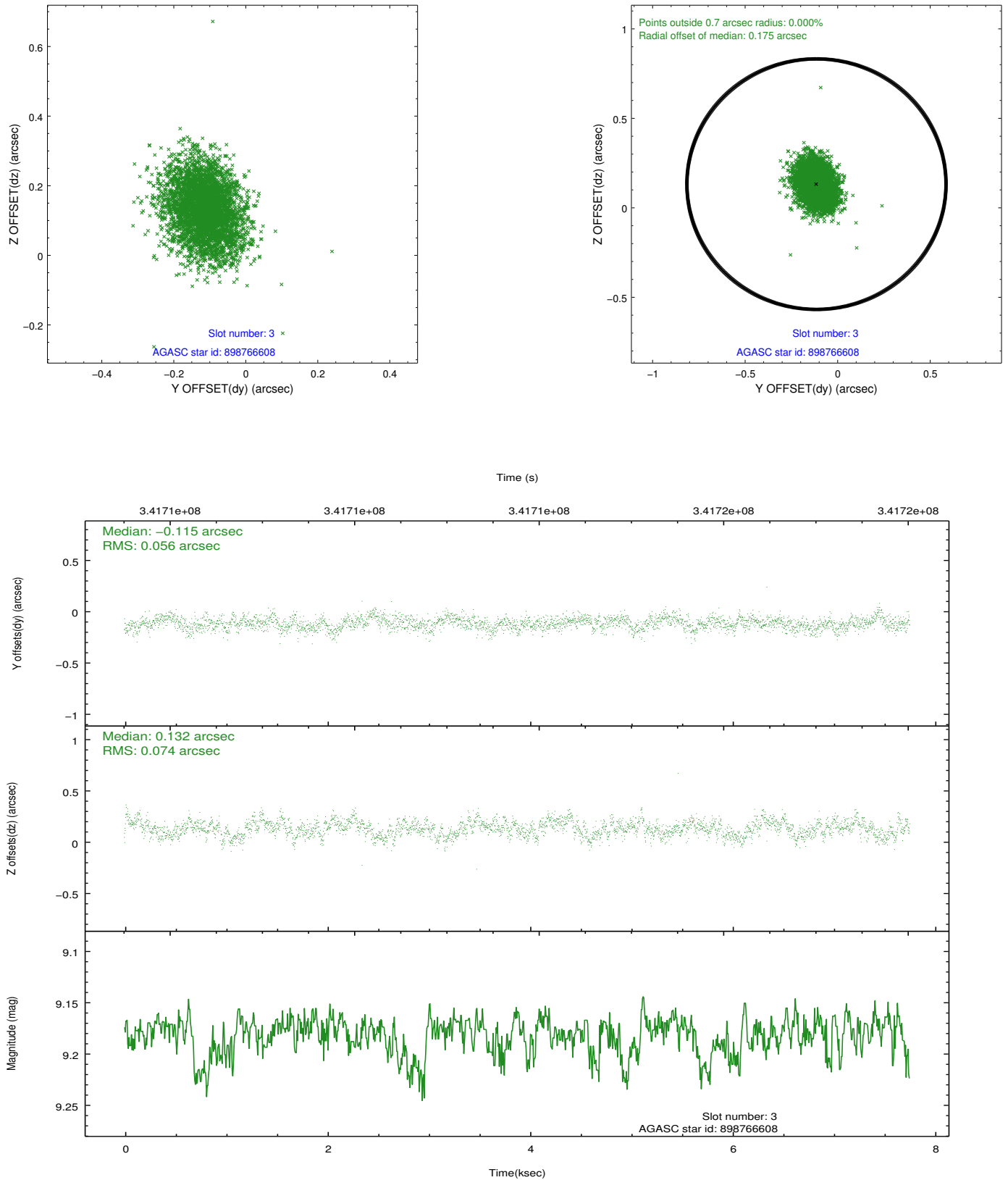


### Slot Statistics

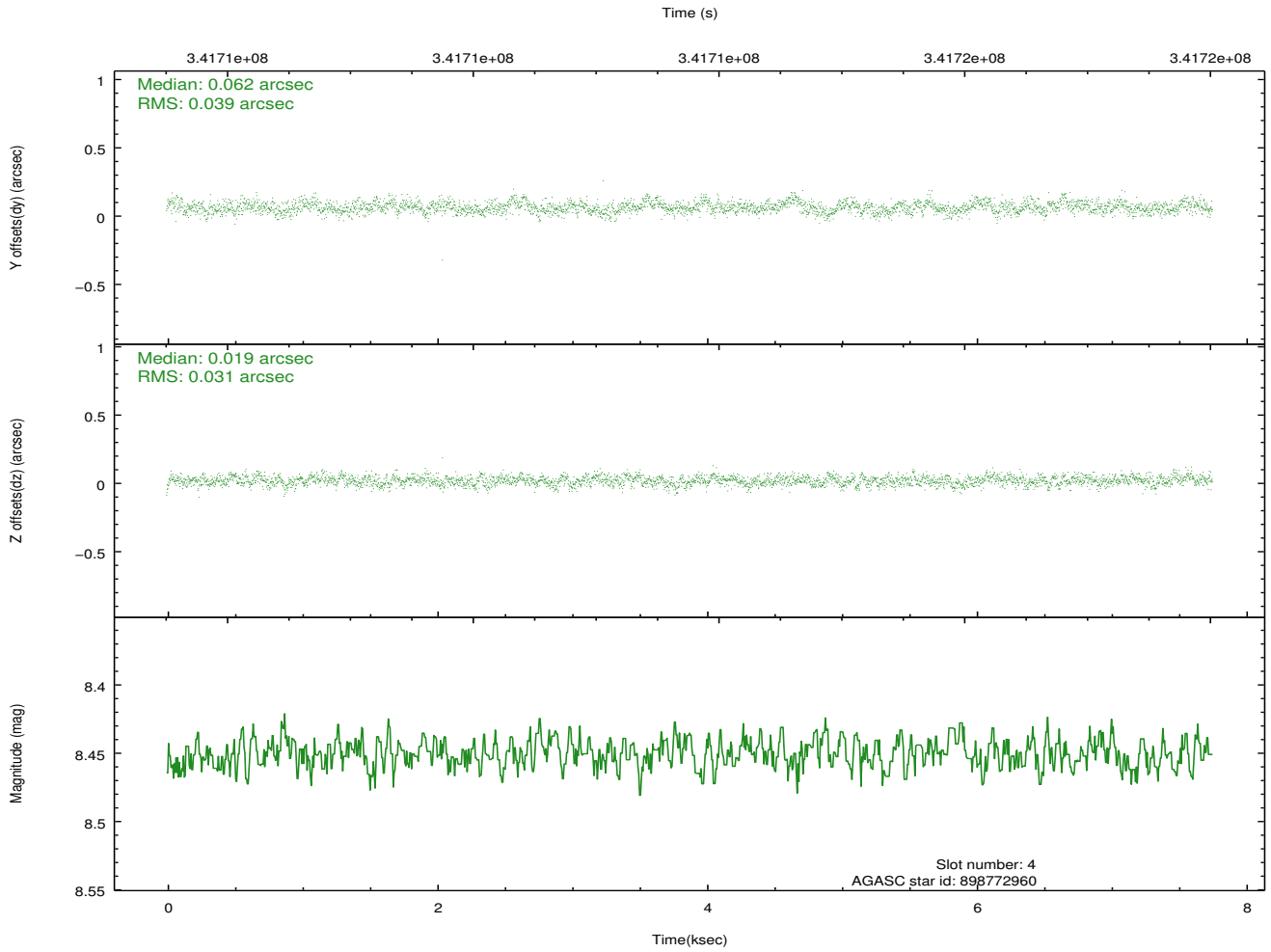
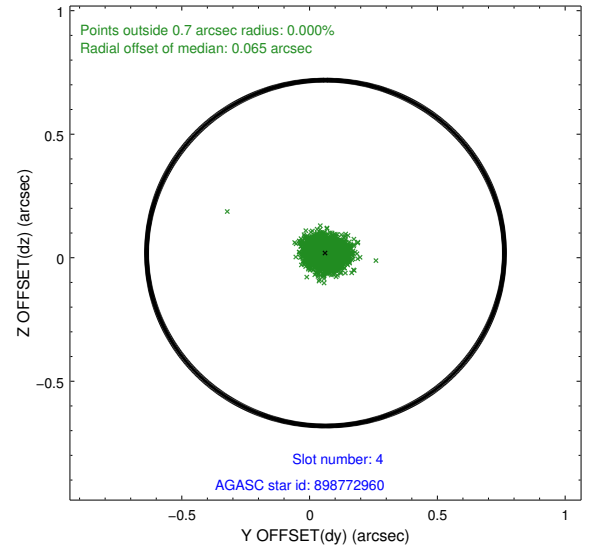
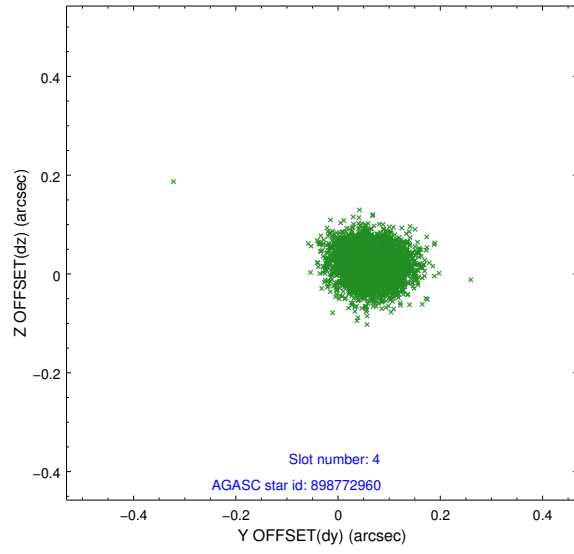
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	1892	-0.058	-0.036	0.006	0.011	0.000000	0.000000	-765.38	-1736.82
1	FID	ACIS-S-4	6.99	1892	0.092	0.015	0.006	0.010	0.000000	0.000000	2147.69	170.99
2	FID	ACIS-S-6	7.11	1892	-0.061	0.028	0.007	0.012	0.000000	0.000000	397.51	809.21
3	GUIDE	898766608	9.18	3766	-0.115	0.132	0.098	0.160	278.330558	-23.522602	304.34	1202.88
4	GUIDE	898772960	8.45	3784	0.062	0.019	0.053	0.086	277.658586	-23.887765	1497.86	-1079.59
5	GUIDE	898777560	7.87	3783	-0.011	-0.091	0.052	0.089	277.314145	-23.856338	1328.02	-2207.09
6	GUIDE	898778144	8.50	3780	-0.030	-0.142	0.063	0.106	277.383237	-23.835734	1265.10	-1976.56
7	GUIDE	898765728	7.23	3781	0.087	0.085	0.063	0.115	278.310034	-24.109543	2410.76	1016.10

## 2.4 Star Slots

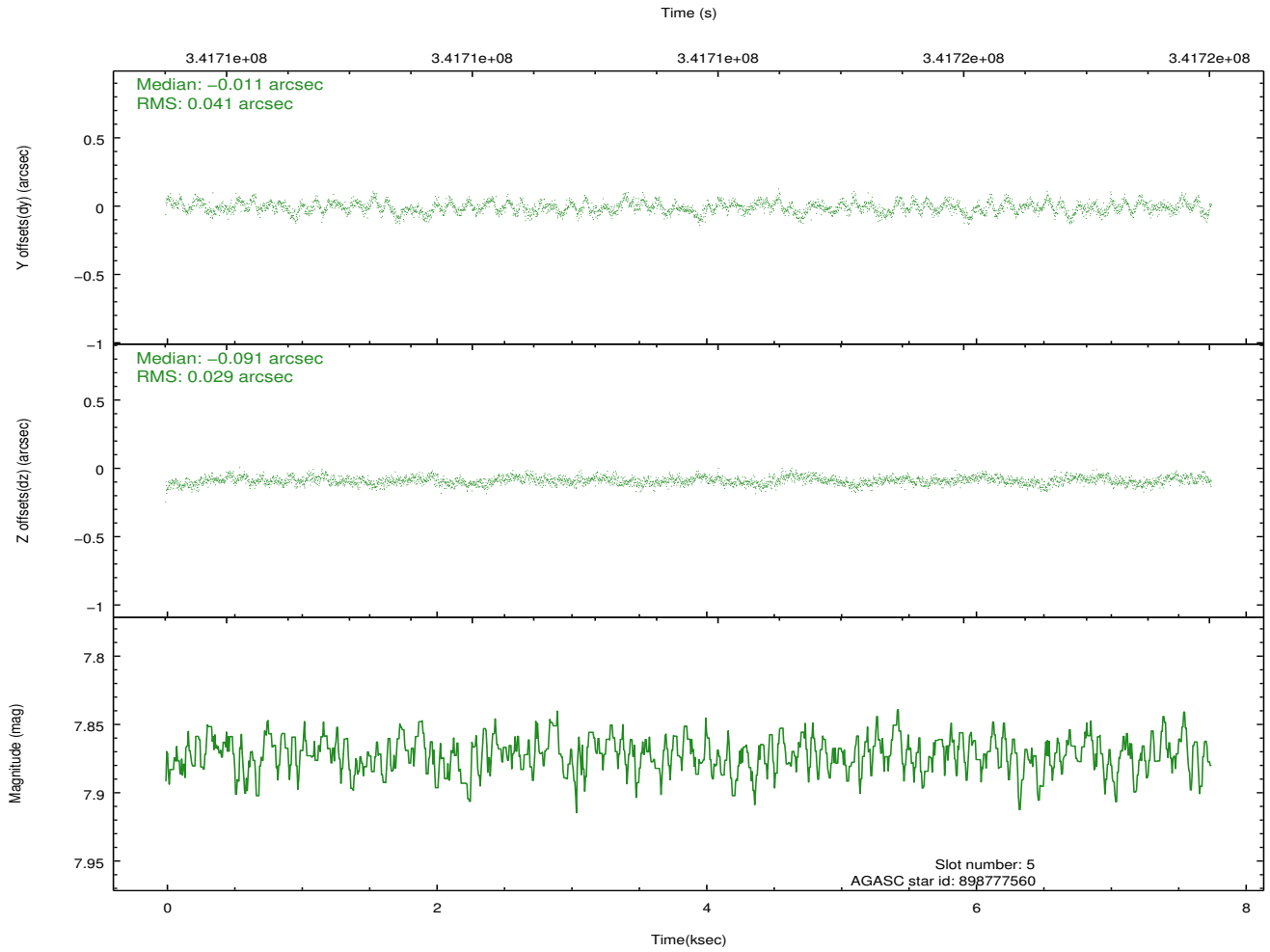
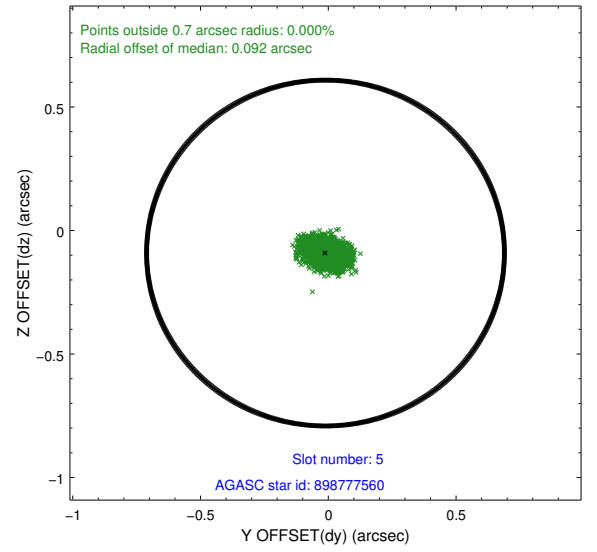
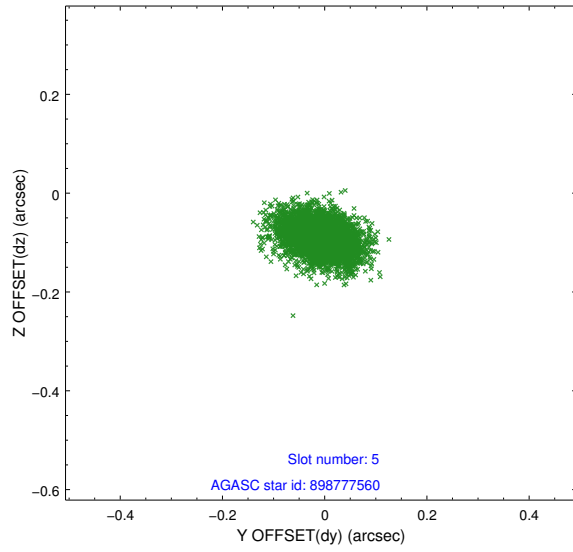
### 2.4.1 Slot 3



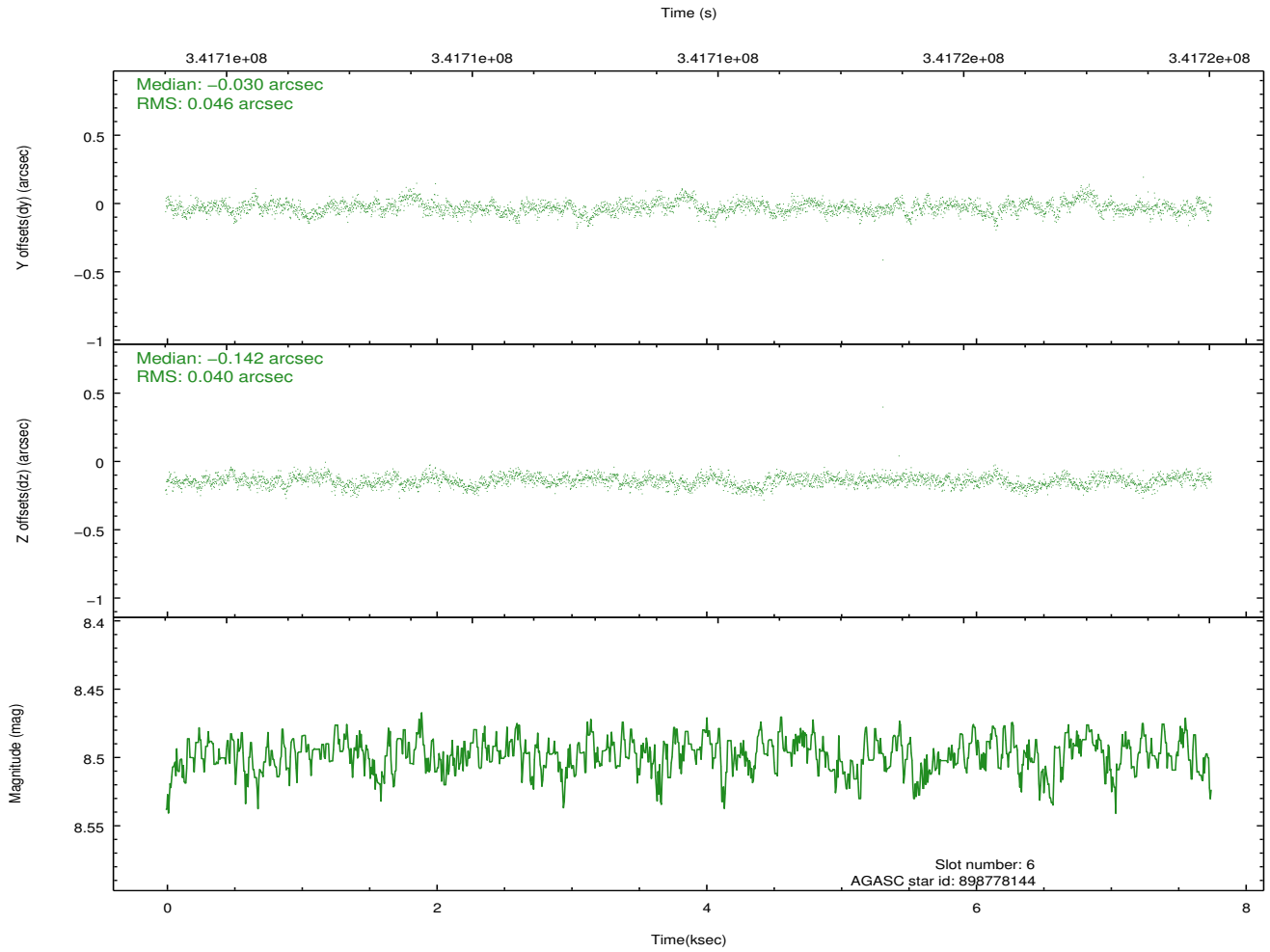
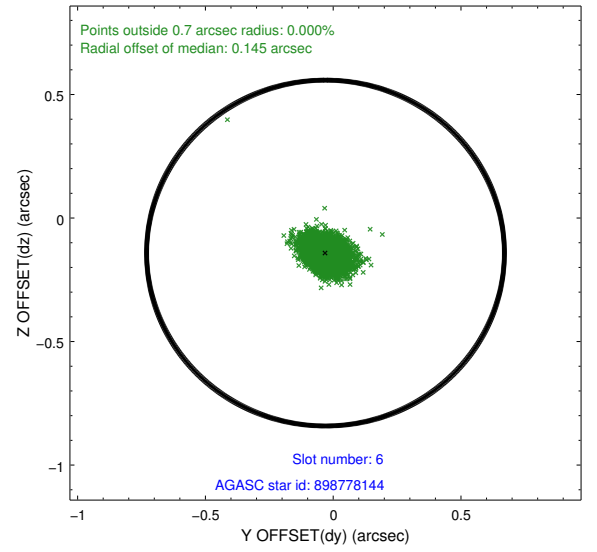
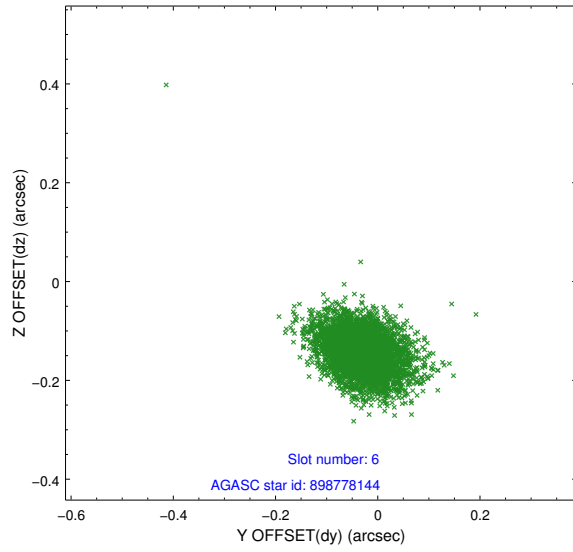
### 2.4.2 Slot 4



### 2.4.3 Slot 5

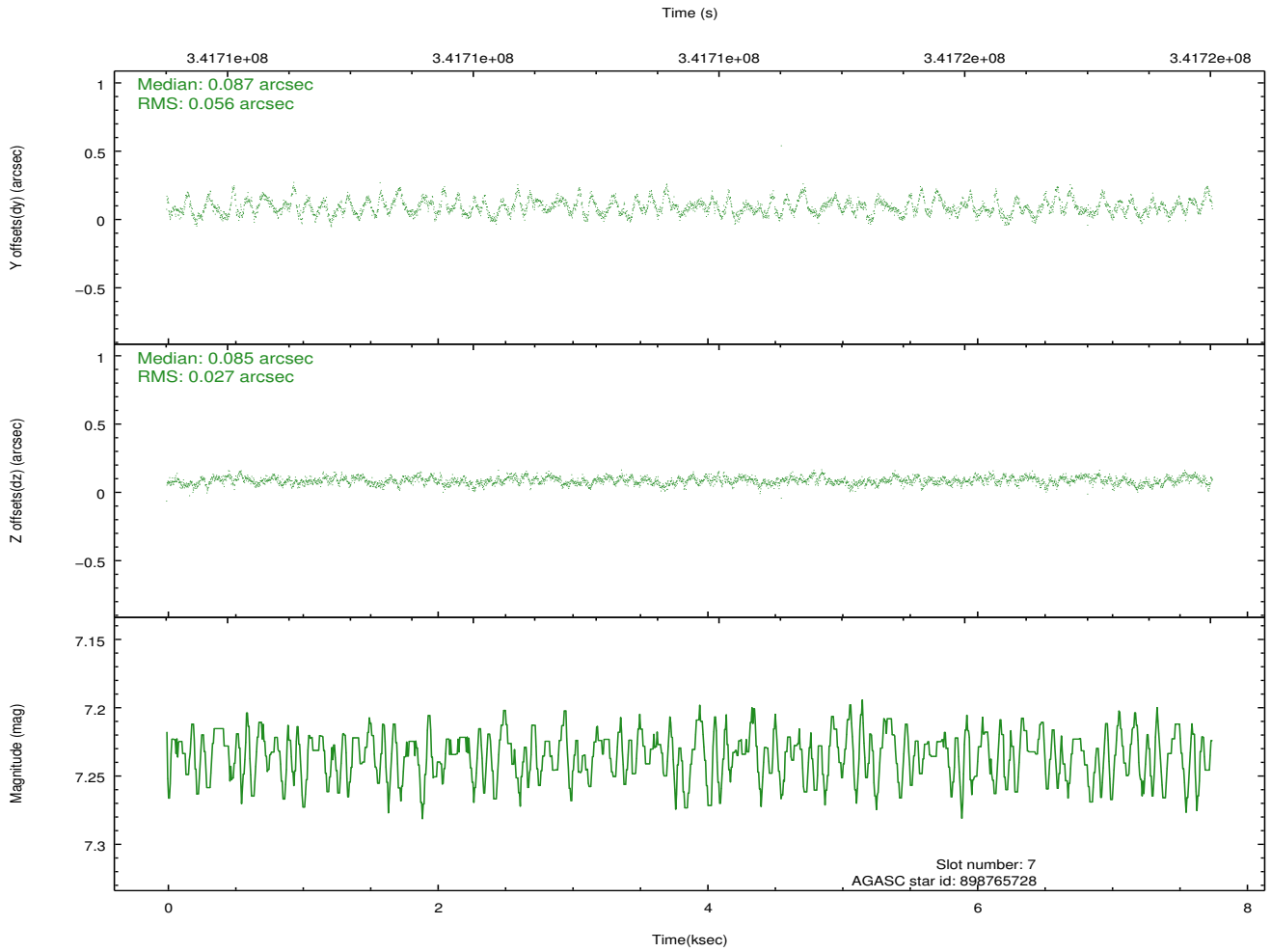
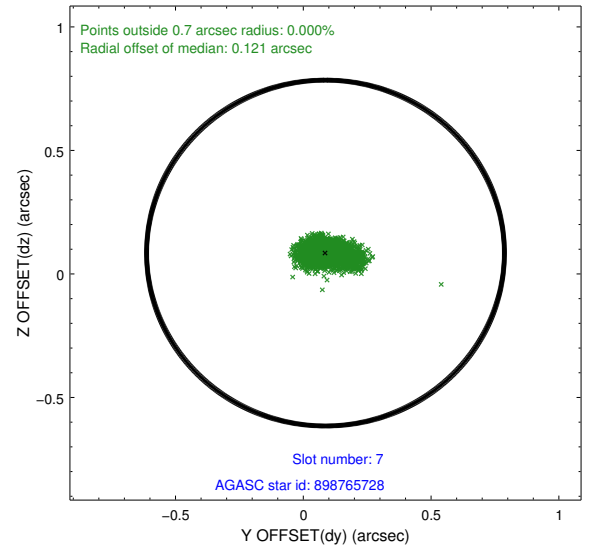
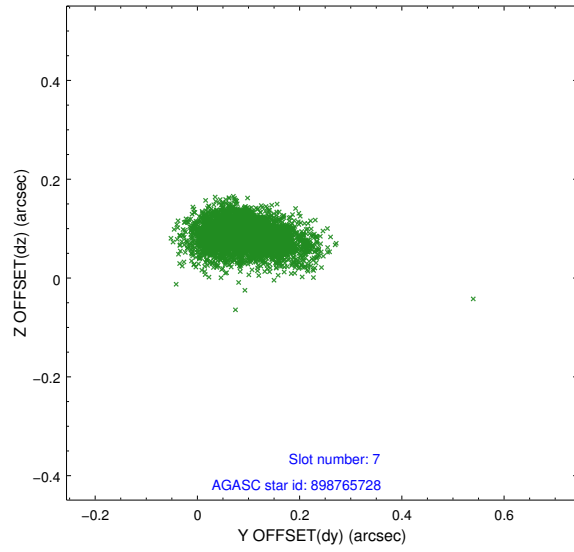


## 2.4.4 Slot 6



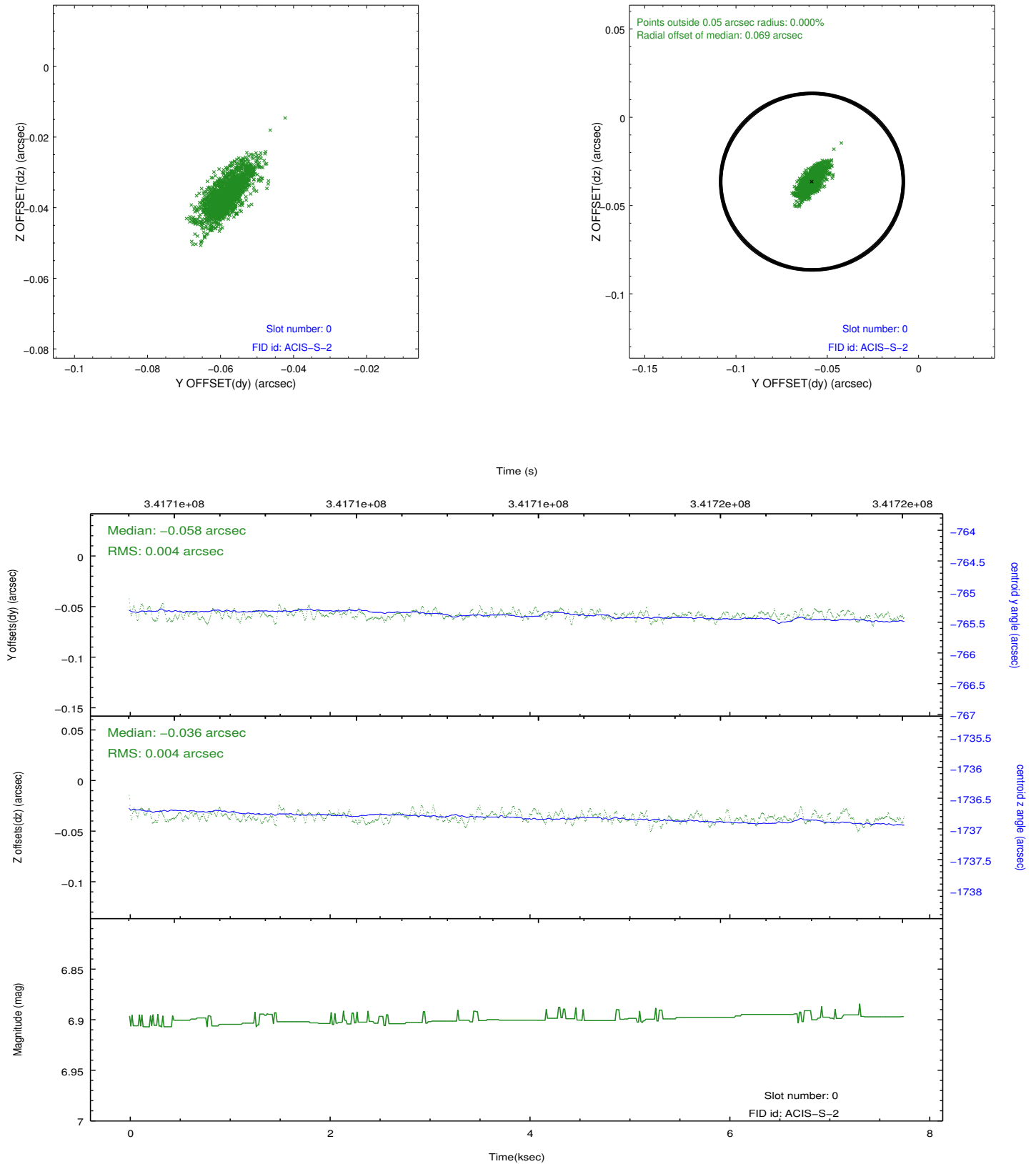


### 2.4.5 Slot 7

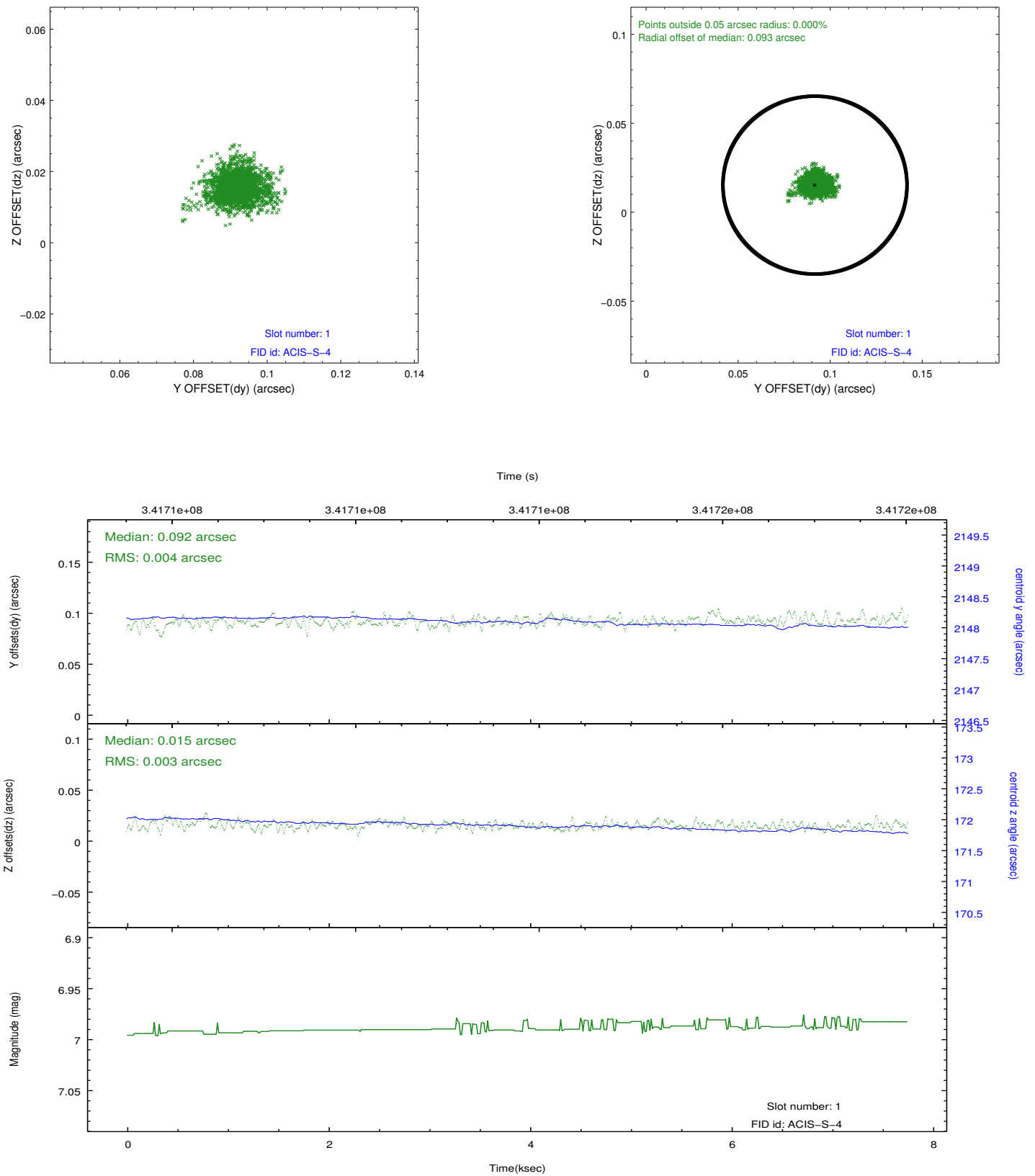


## 2.5 FID Slots

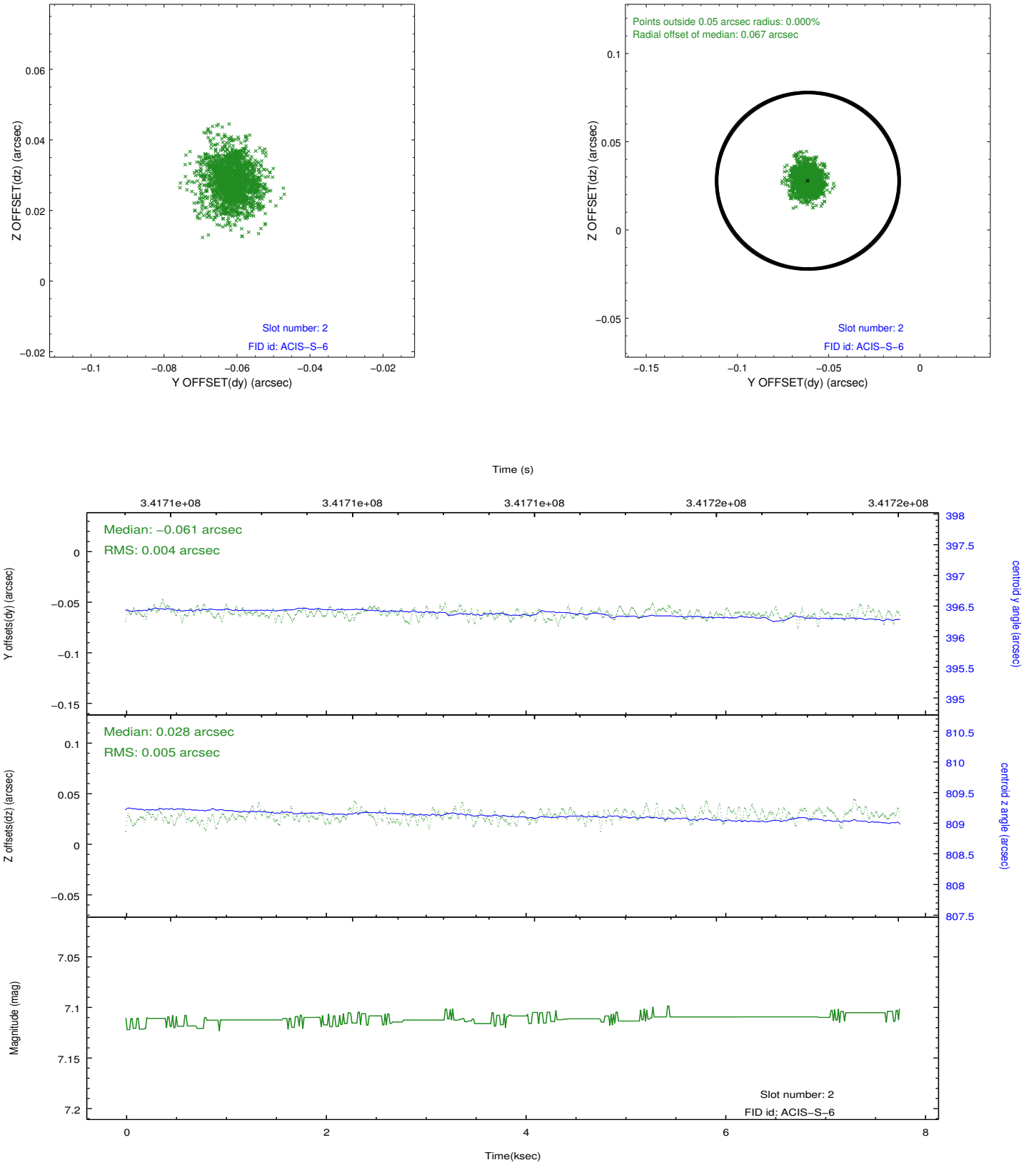
### 2.5.1 Slot 0



## 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)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.75039997

### A.2 Comments