

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 13804 - L2 Version 1  
Chandra X-Ray Center

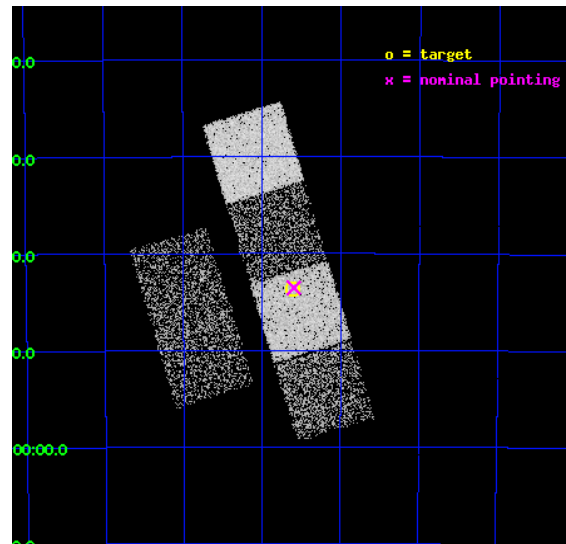
L2 Processing Date : Apr 25 2012

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# 1 Front

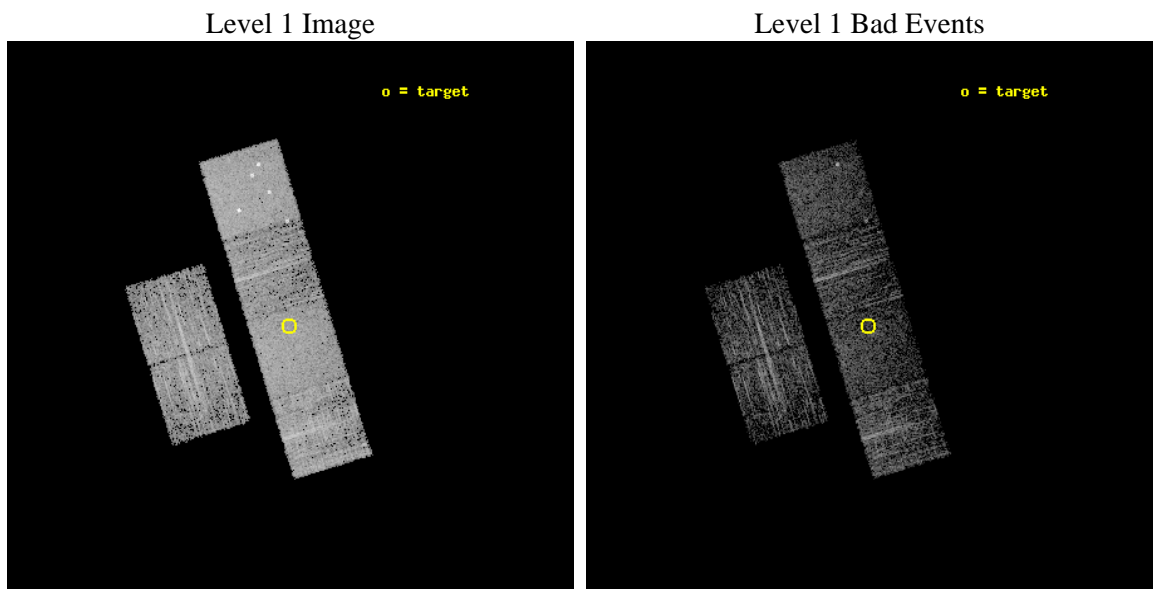
seq_num	501636	Sequence number
obs_id	13804	Observation id
title	A CASE OF MISTAKEN IDENTITY: DISRUPTED RECYCLED PULSARS OR ORPHANED ANTI-MAGNETARS?	Proposal title
observer	Prof. Dr. Bruce Allen	Principal investigator
object	PSR J1816-5643	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	274.152083	Observer's specified target RA [deg]
dec_targ	-56.728361	Observer's specified target Dec [deg]
ra_nom	274.14866379348	Nominal RA [deg]
dec_nom	-56.726064678599	Nominal Dec [deg]
roll_nom	73.10232629158	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3462.1581178308	Sum of GTIs [s]
livetime	3418.3181870814	Livetime [s]
ontime2	3462.1991578341	Sum of GTIs [s]
ontime3	3462.0349978209	Sum of GTIs [s]
ontime5	3462.1170778275	Sum of GTIs [s]
ontime6	3462.0760378242	Sum of GTIs [s]
ontime7	3462.1581178308	Sum of GTIs [s]
ontime8	3461.9939578176	Sum of GTIs [s]
l2events	34854	Number of level 2 events



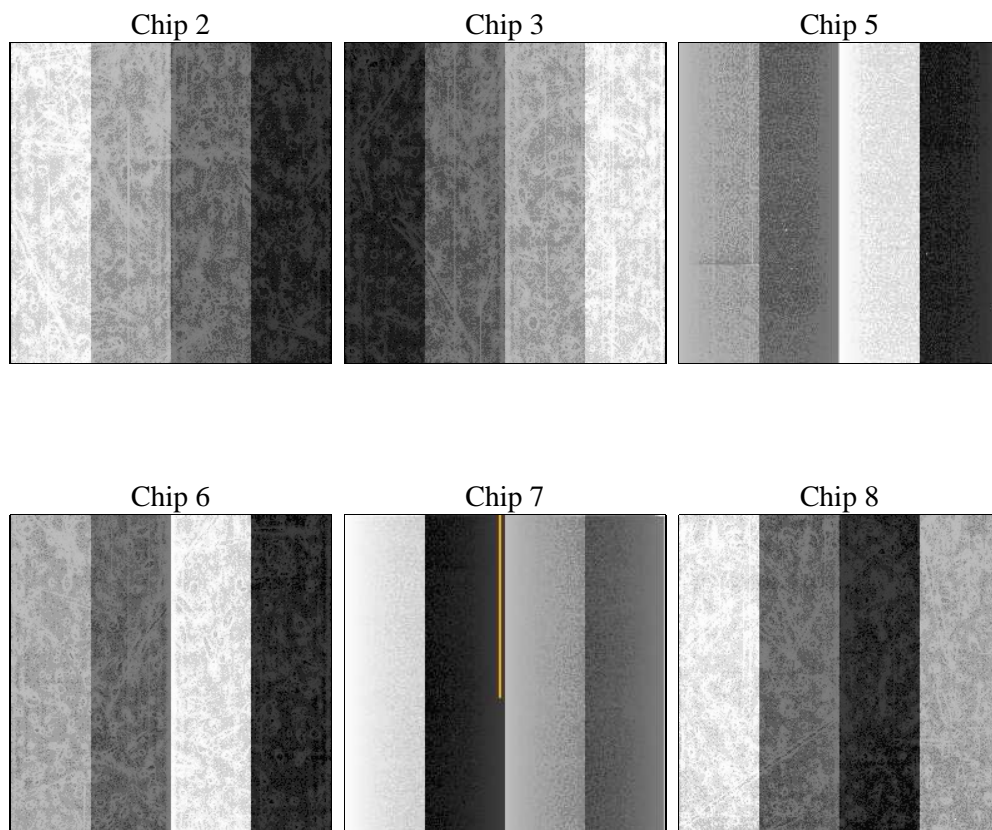
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.446000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	3462.1581178308	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	3462.1991578341	Sum of GTIs [s]
date	2012-04-25T04:21:57	Date and time of file creation	ontime3	3462.0349978209	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	3462.1170778275	Sum of GTIs [s]
			ontime6	3462.0760378242	Sum of GTIs [s]
			ontime7	3462.1581178308	Sum of GTIs [s]
			ontime8	3461.9939578176	Sum of GTIs [s]
			l1events	152375	Number of level 1 events

### 2.1.4 Events

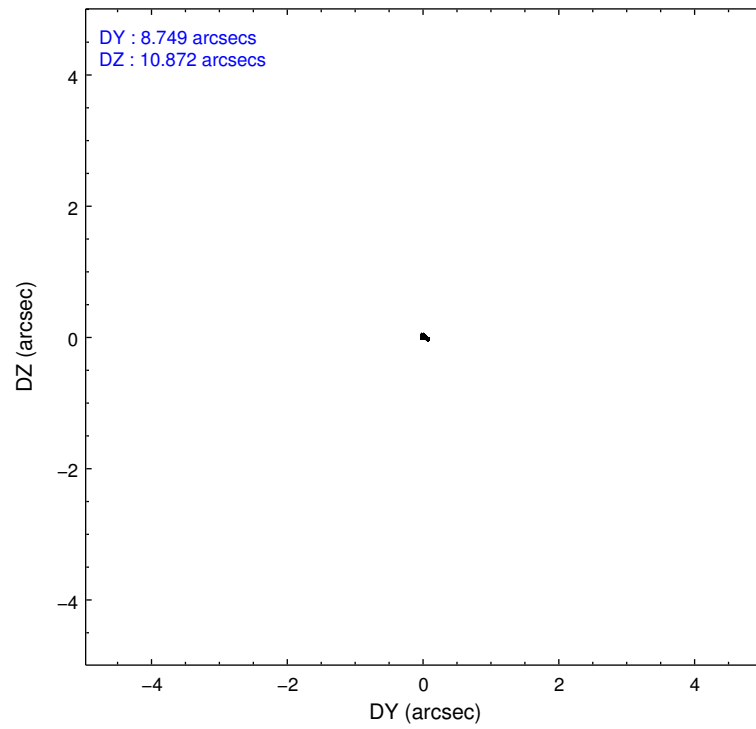
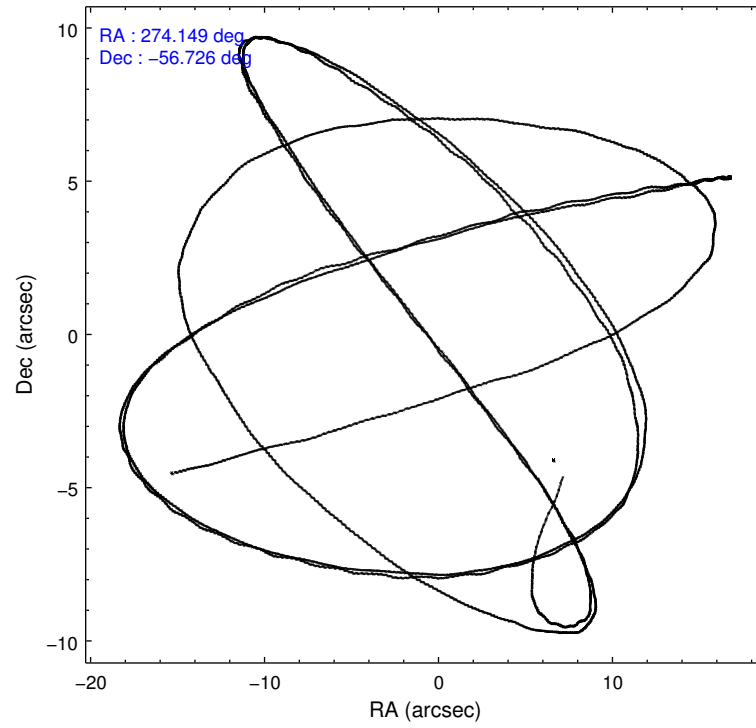
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	20900	20594	35158	20433	26999	28291	grade 0 events	856	736	3127	910	1078	2214
rejected events	18616	18445	17368	18013	15098	21097		4%	3%	8%	4%	3%	7%
rejected %	89%	89%	49%	88%	55%	74%	grade 1 events	12	19	173	7	37	25
								0%	0%	0%	0%	0%	0%
							grade 2 events	506	487	5058	523	2460	1654
								2%	2%	14%	2%	9%	5%
							grade 3 events	248	252	614	246	1007	784
								1%	1%	1%	1%	3%	2%
							grade 4 events	229	252	558	232	1006	743
								1%	1%	1%	1%	3%	2%
							grade 5 events	859	989	2478	1010	2643	1387
								4%	4%	7%	4%	9%	4%
							grade 6 events	449	425	8465	514	6377	1813
								2%	2%	24%	2%	23%	6%
							grade 7 events	17741	17434	14685	16991	12391	19671
								84%	84%	41%	83%	45%	69%

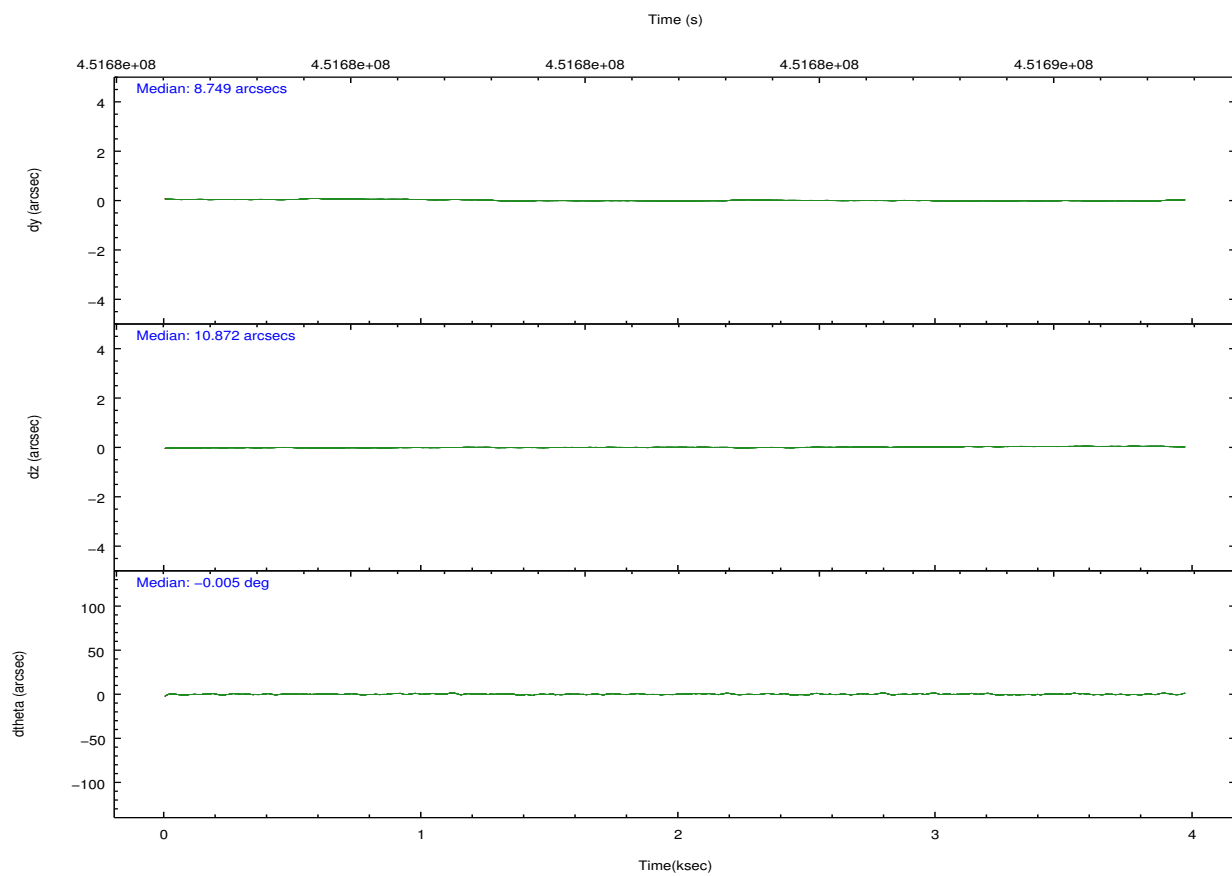
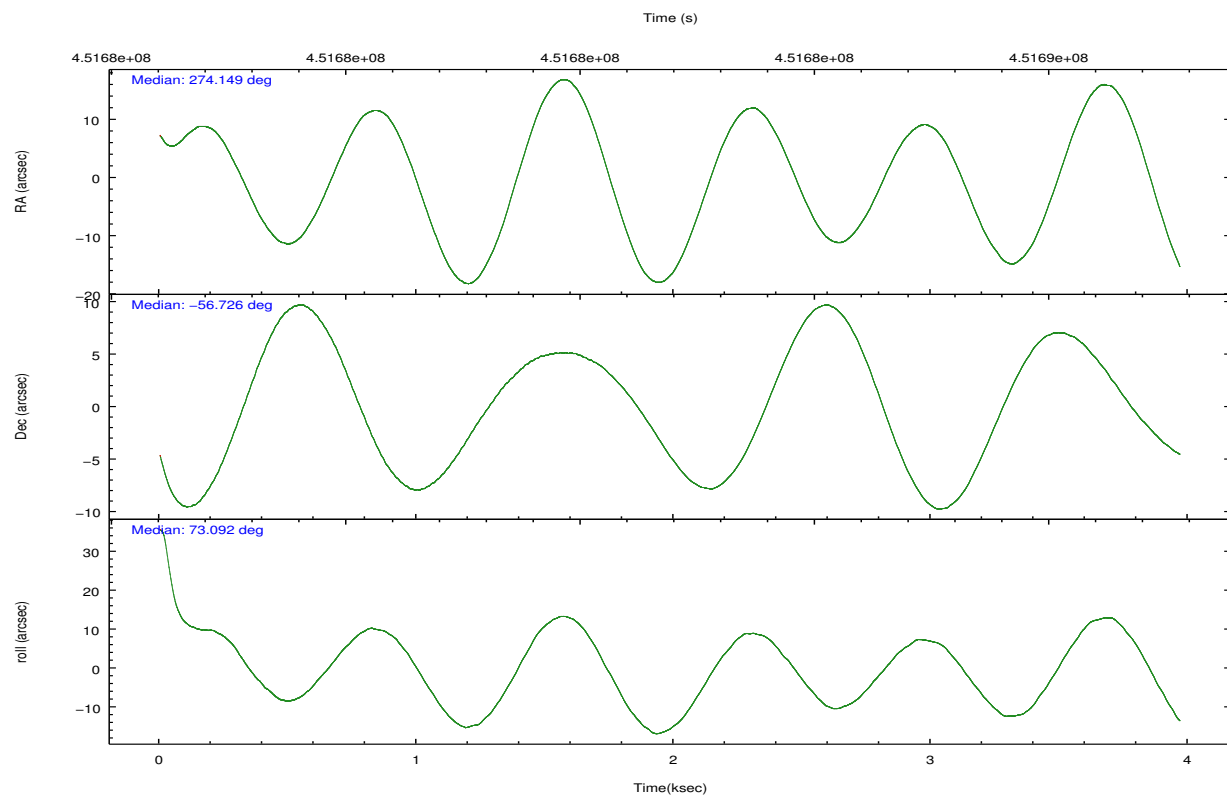


## 2.2 Compared Parameters

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	274.160455	274.1486637934767	CCD I2 on	O1	Y
[deg] Pointing Dec	-56.752619	-56.72606467859885	CCD I3 on	O2	Y
[deg] Pointing Roll	72.955475	73.10232629157998	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)	451682873.184000	451681769.63361	CCD S5 on	N	N
Observation start date	2012-04-24T19:26:47	2012-04-24T19:09:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	451686373.184000	451686598.92137	On-chip summing requested	N	N
Observation end date	2012-04-24T20:25:07	2012-04-24T20:29:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



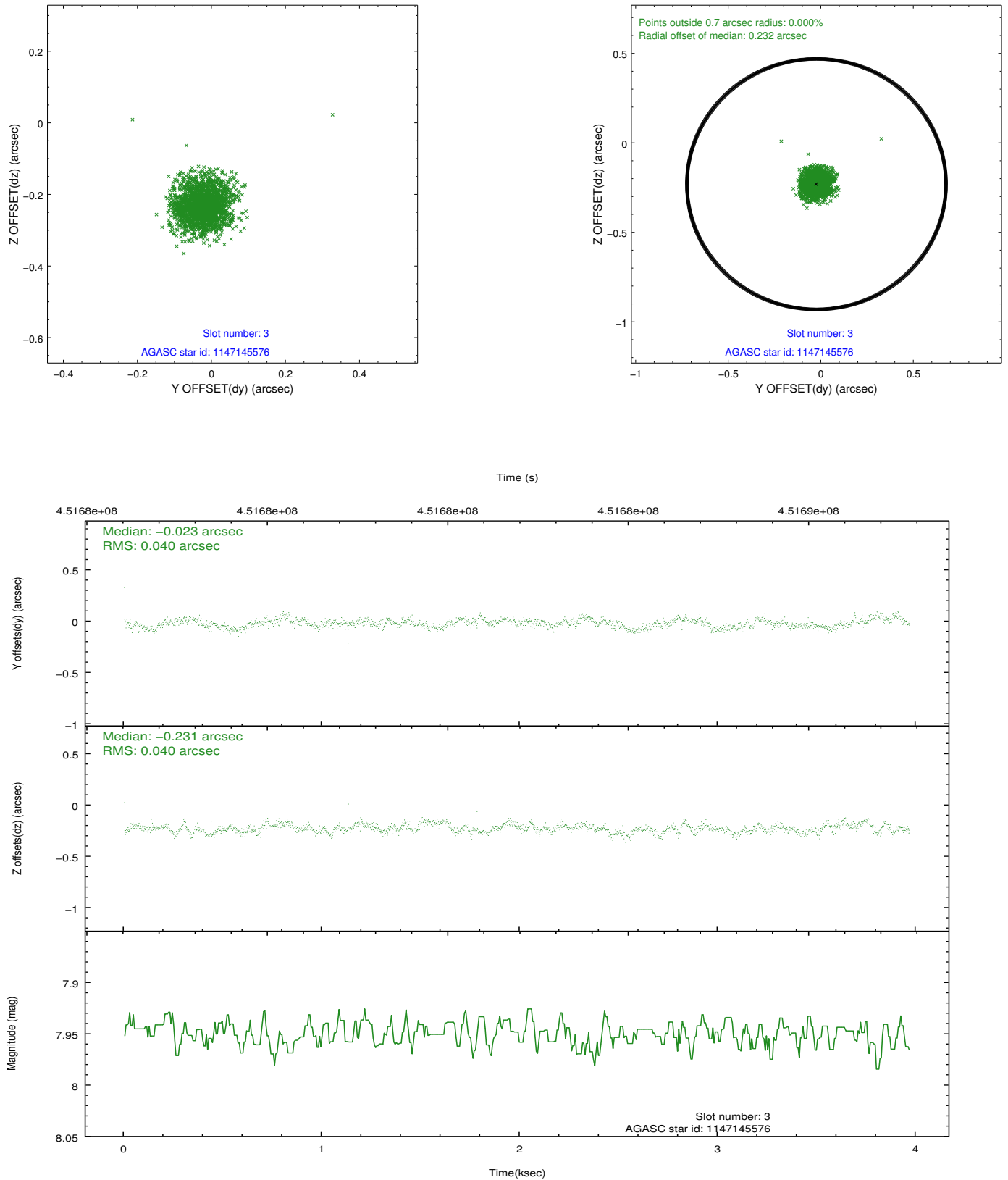


### Slot Statistics

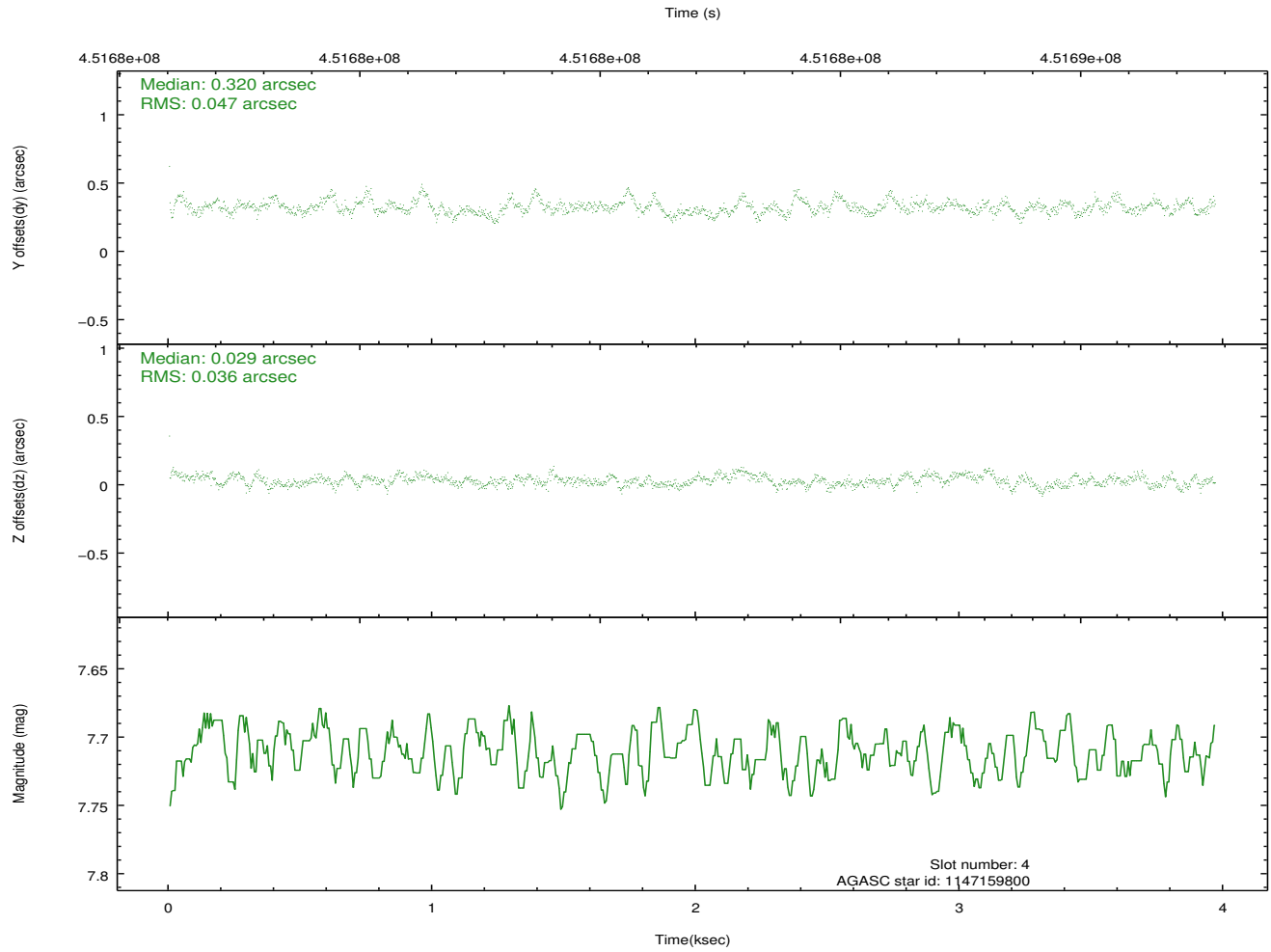
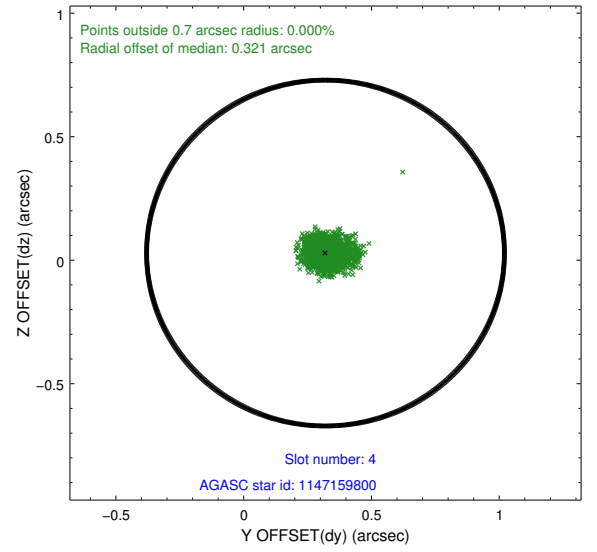
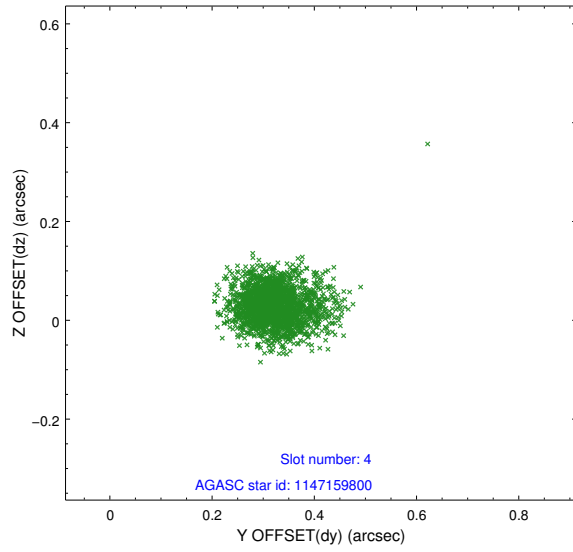
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.01	968	-0.009	-0.027	0.006	0.010	0.000000	0.000000	-761.54	-1732.13
1	FID	ACIS-S-5	7.13	968	-0.125	-0.015	0.006	0.011	0.000000	0.000000	-1815.52	168.21
2	FID	ACIS-S-6	7.23	968	0.108	0.050	0.006	0.010	0.000000	0.000000	398.44	814.00
3	GUIDE	1147145576	7.95	1935	-0.023	-0.231	0.061	0.097	274.221751	-56.817802	-188.79	-184.25
4	GUIDE	1147159800	7.71	1936	0.320	0.029	0.060	0.104	274.461895	-56.477936	1120.31	-283.09
5	GUIDE	1147160688	8.43	1936	-0.013	0.106	0.074	0.125	275.363213	-56.404024	1883.15	-1928.33
6	GUIDE	1147160880	9.05	1935	-0.230	0.045	0.077	0.130	275.224761	-56.625676	1040.38	-1886.41
7	GUIDE	1146619608	6.86	1935	-0.055	0.051	0.049	0.081	275.089172	-56.215677	2381.90	-1215.13

## 2.4 Star Slots

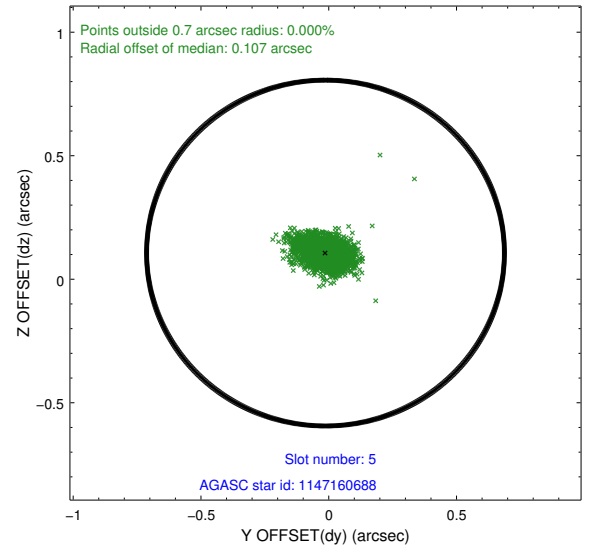
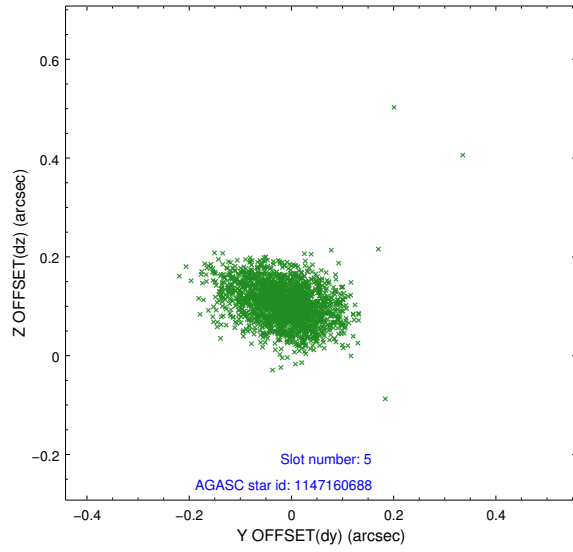
### 2.4.1 Slot 3



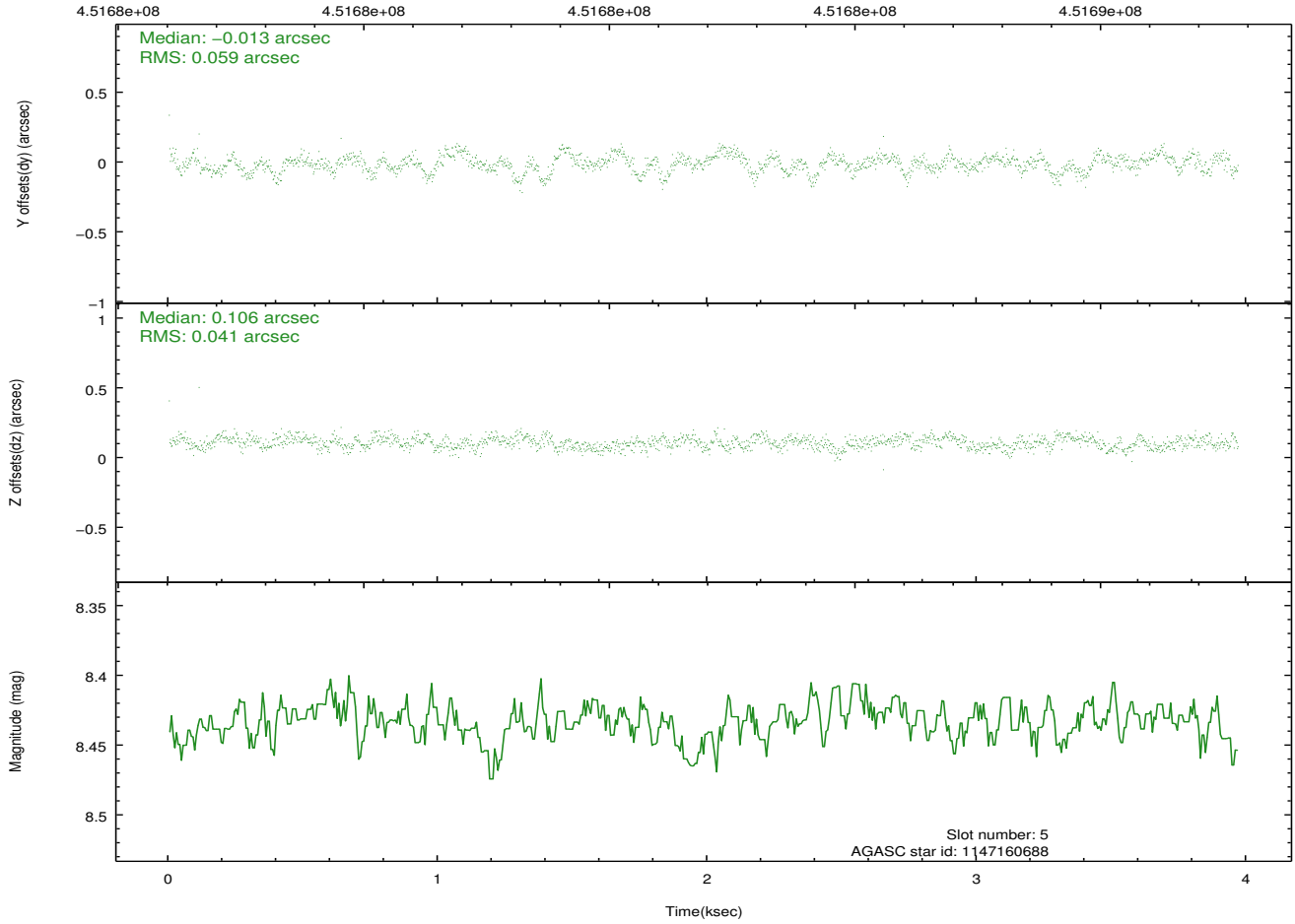
## 2.4.2 Slot 4



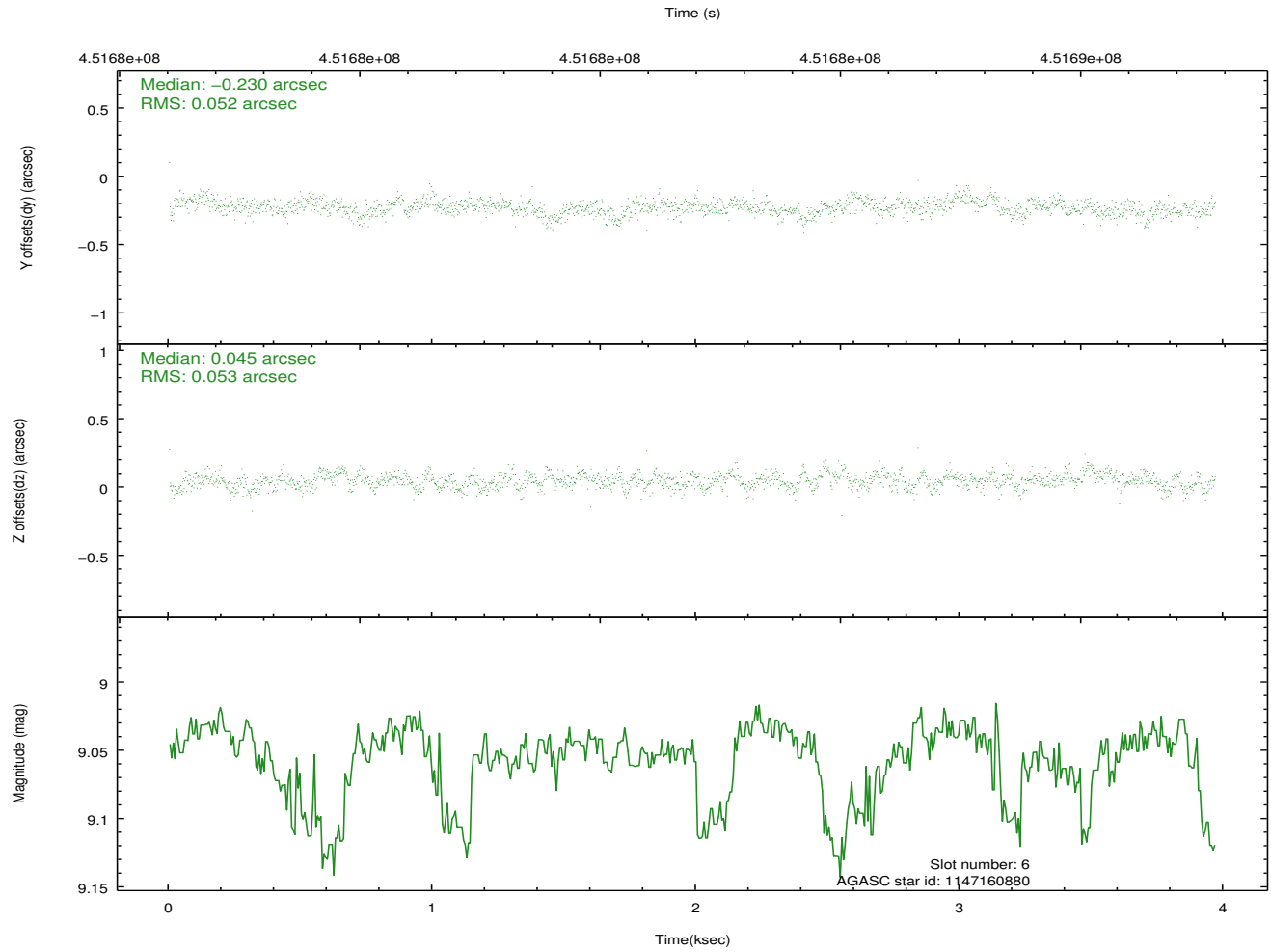
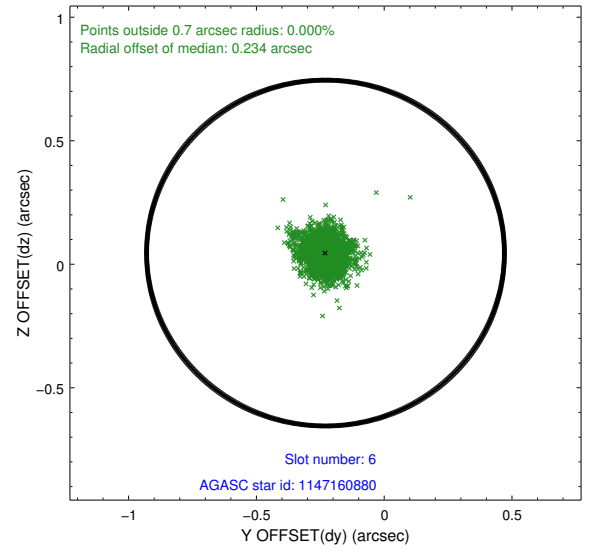
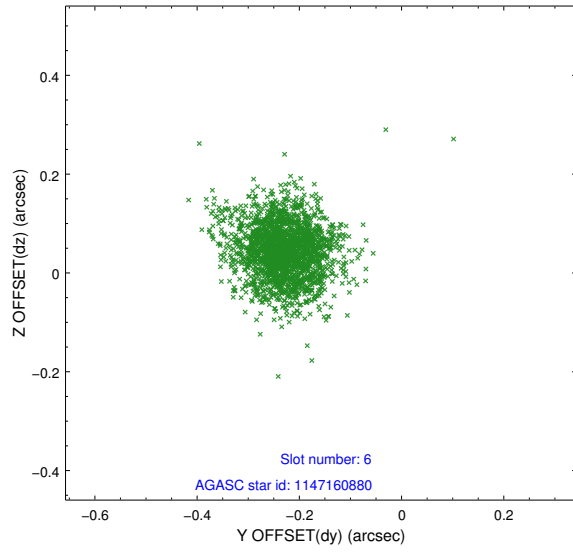
### 2.4.3 Slot 5



Time (s)

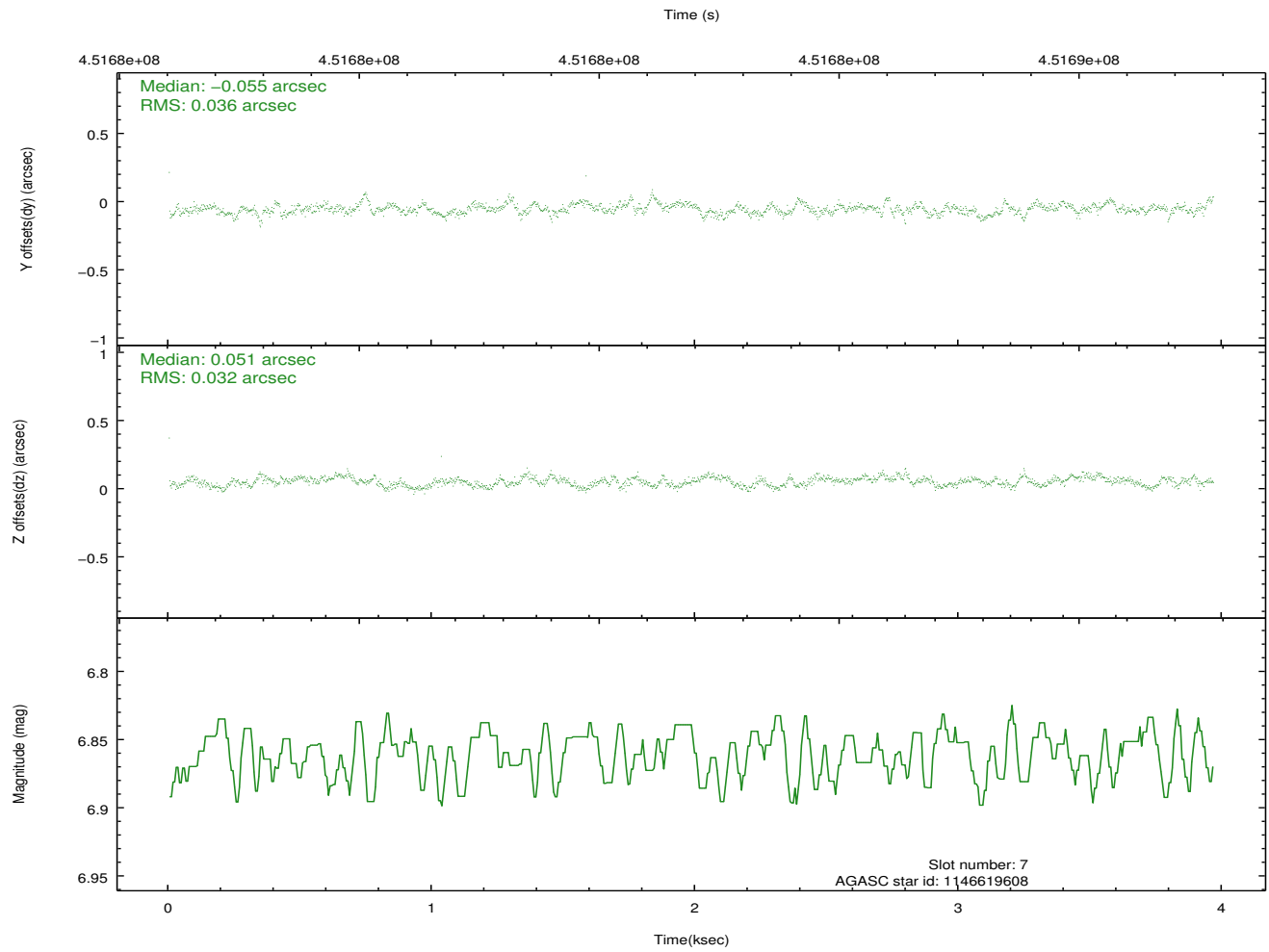
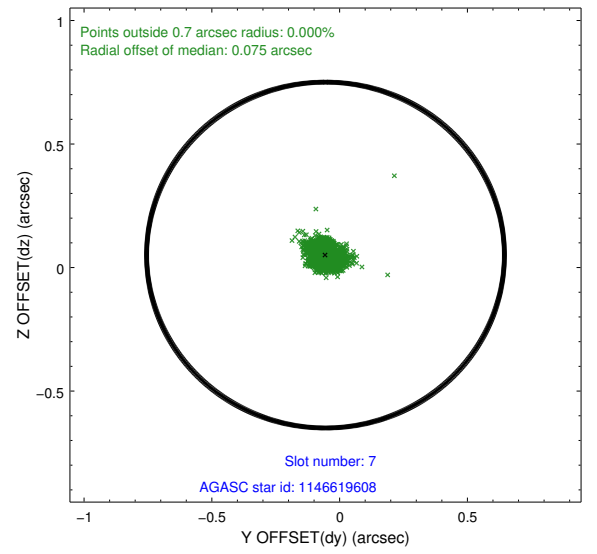
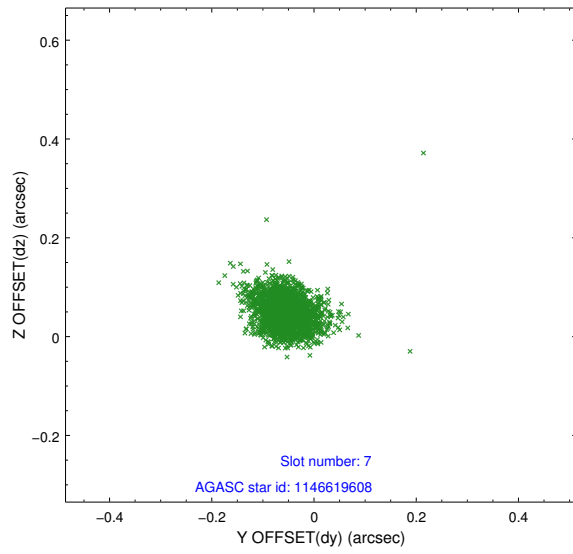


## 2.4.4 Slot 6



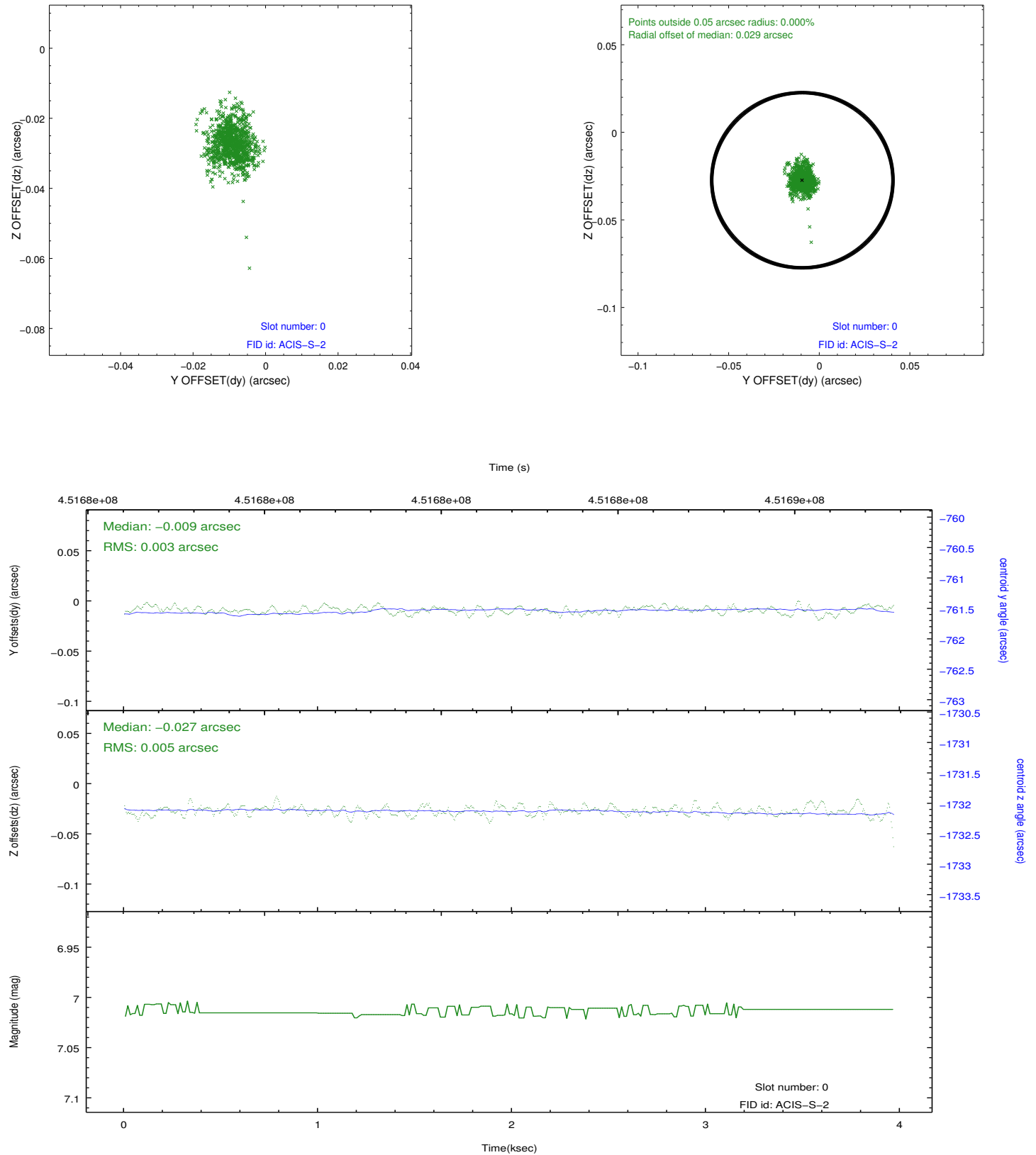


## 2.4.5 Slot 7

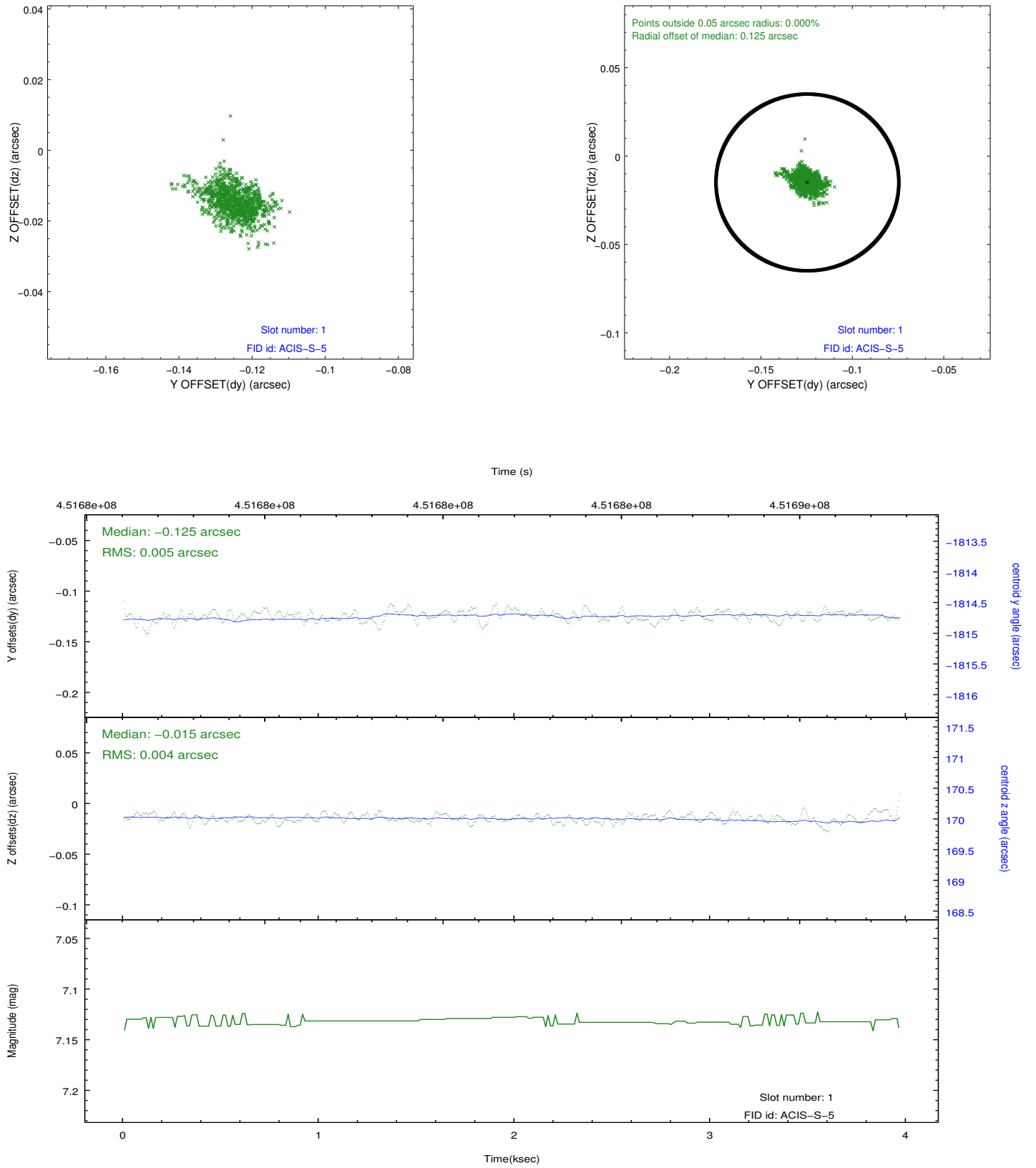


## 2.5 FID Slots

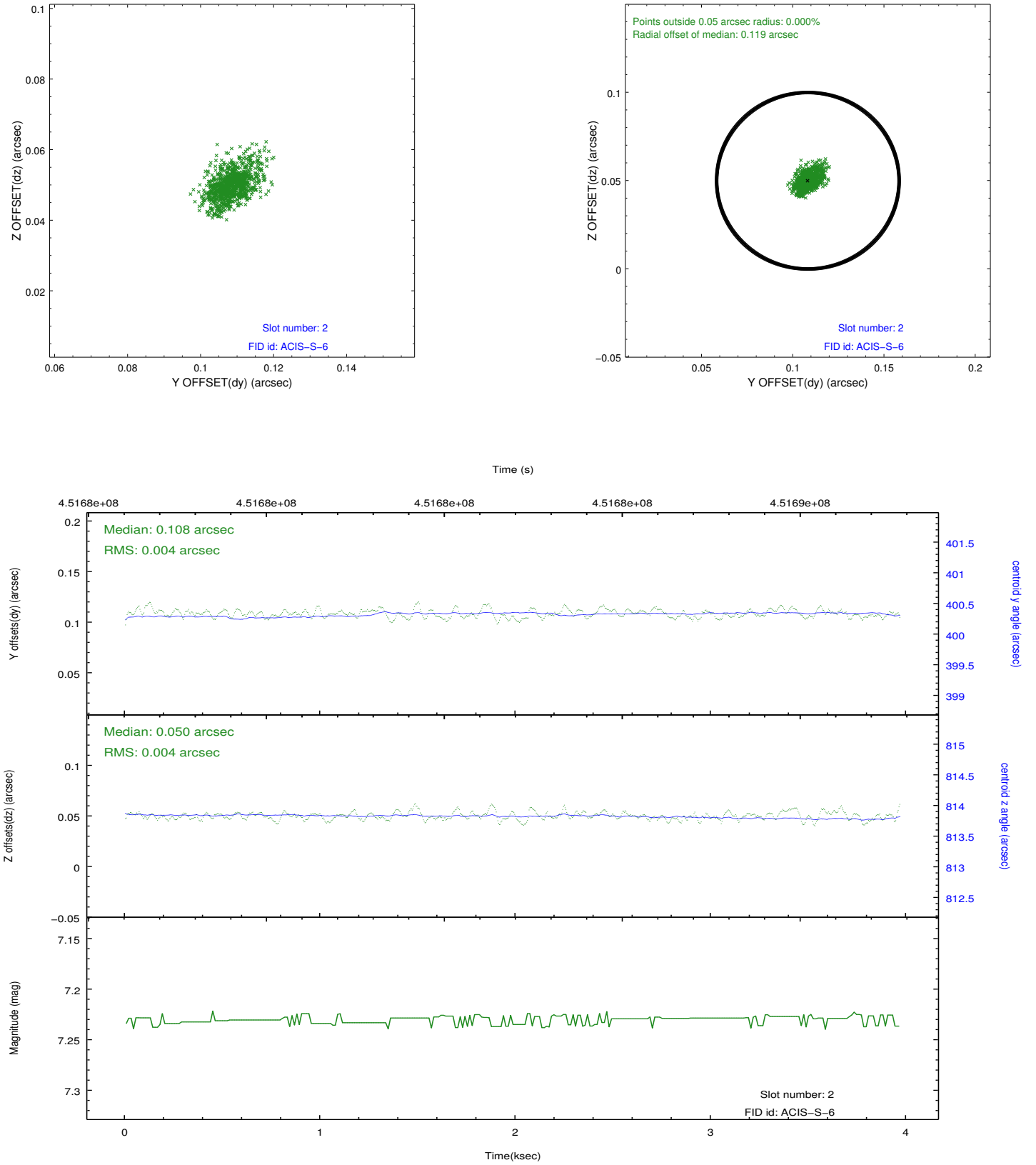
### 2.5.1 Slot 0



## 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)	2012.04.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.4621581178308

### A.2 Comments