

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11836 - L2 Version 2  
Chandra X-Ray Center

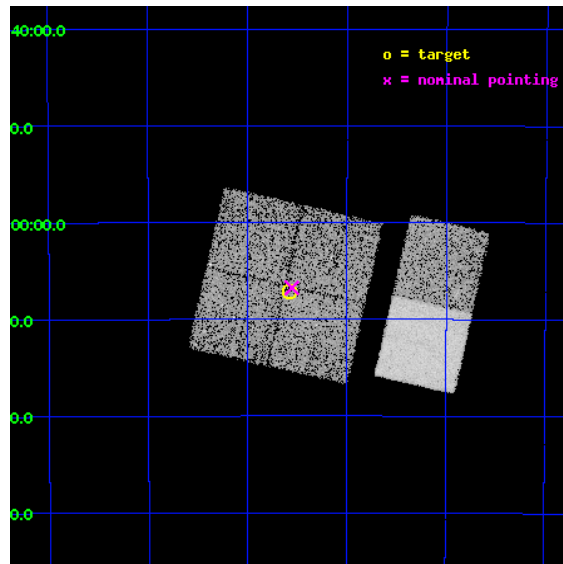
L2 Processing Date : Jun 20 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

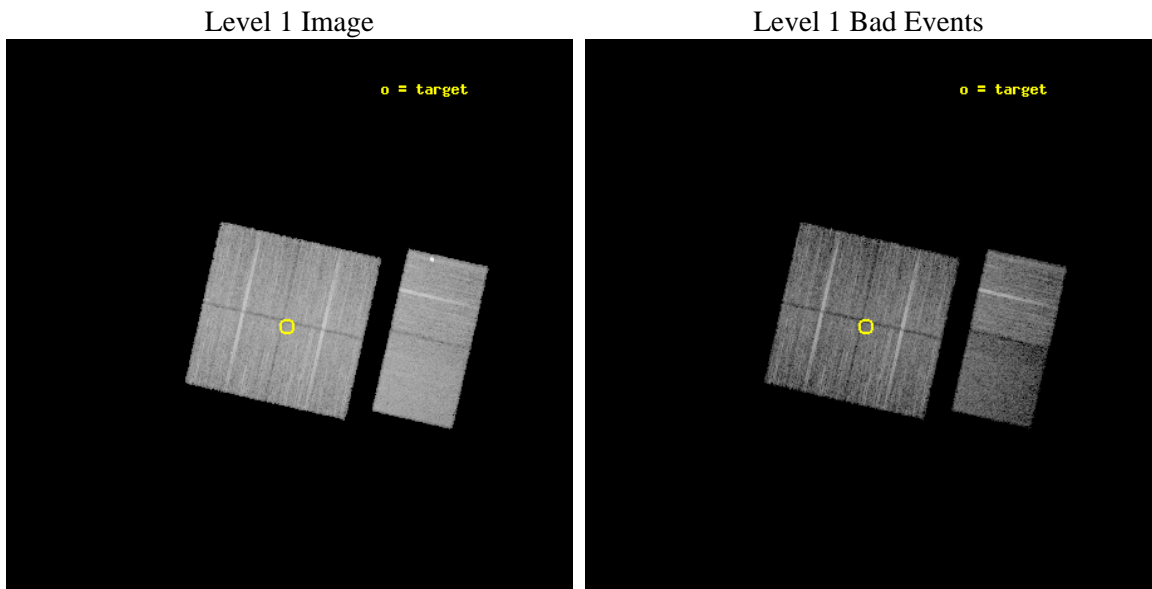
seq_num	501353	Sequence number
obs_id	11836	Observation id
title	Snap-shot survey of unidentified galactic GeV sources	Proposal tit
observer	Professor Gordon Garmire	Principal investigator
object	0FGL J1648.1-4606	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	252.144129	Observer's specified target RA [deg]
dec_targ	-46.1197	Observer's specified target Dec [deg]
ra_nom	252.13834297893	Nominal RA [deg]
dec_nom	-46.112708705163	Nominal Dec [deg]
roll_nom	102.79407944663	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10163.199962199	Sum of GTIs [s]
livetime	10034.507404733	Livetime [s]
ontime0	10163.199962199	Sum of GTIs [s]
ontime1	10163.199962199	Sum of GTIs [s]
ontime2	10163.199962199	Sum of GTIs [s]
ontime3	10163.199962199	Sum of GTIs [s]
ontime6	10163.199962199	Sum of GTIs [s]
ontime7	10163.199962199	Sum of GTIs [s]
l2events	75603	Number of level 2 events



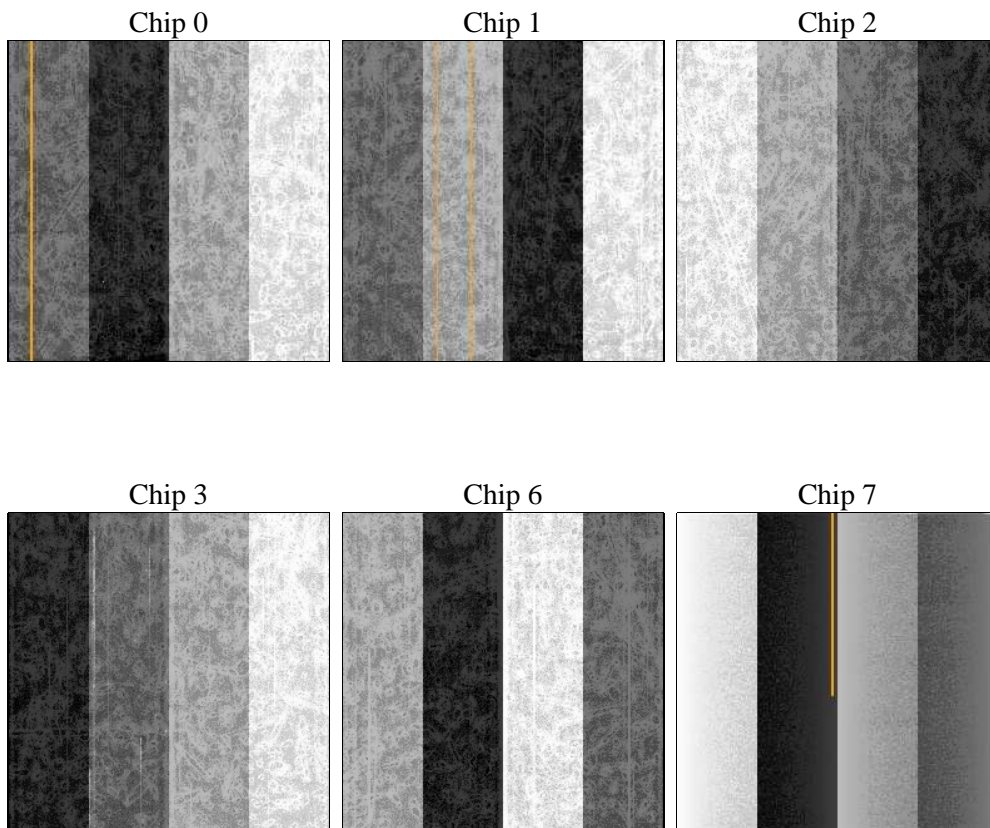
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10163.199962199	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	10163.199962199	Sum of GTIs [s]
date	2012-06-20T11:54:59	Date and time of file creation	ontime1	10163.199962199	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10163.199962199	Sum of GTIs [s]
			ontime3	10163.199962199	Sum of GTIs [s]
			ontime6	10163.199962199	Sum of GTIs [s]
			ontime7	10163.199962199	Sum of GTIs [s]
			l1events	505268	Number of level 1 events

### 2.1.4 Events

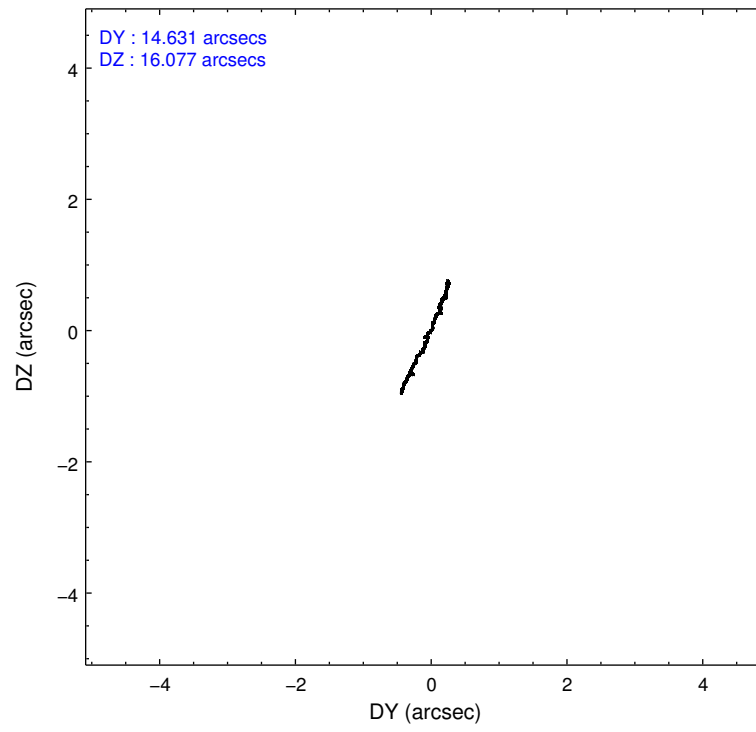
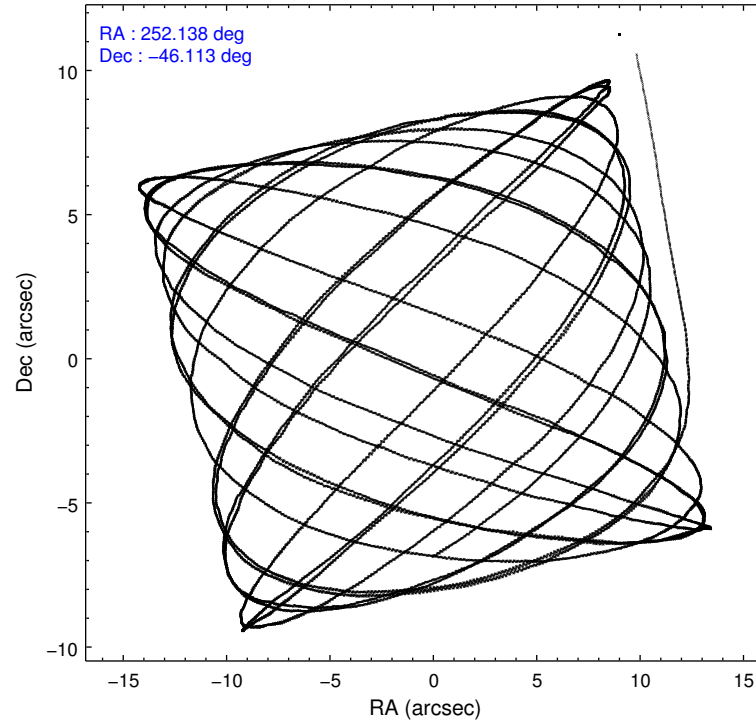
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	78380	80232	87320	84853	90637	83846	grade 0 events	3539	3371	3715	3533	7003	4295
rejected events	69660	71211	78409	76290	78232	44232		4%	4%	4%	4%	7%	5%
rejected %	88%	88%	89%	89%	86%	52%	grade 1 events	52	44	69	49	74	143
								0%	0%	0%	0%	0%	0%
							grade 2 events	2148	2075	2129	1878	2153	9017
								2%	2%	2%	2%	2%	10%
							grade 3 events	900	1039	920	959	968	3759
								1%	1%	1%	1%	1%	4%
							grade 4 events	866	999	987	928	946	3768
								1%	1%	1%	1%	1%	4%
							grade 5 events	2613	2956	2580	3023	3112	9008
								3%	3%	2%	3%	3%	10%
							grade 6 events	1606	1903	1519	1594	1827	20406
								2%	2%	1%	1%	2%	24%
							grade 7 events	66656	67845	75401	72889	74554	33450
								85%	84%	86%	85%	82%	39%

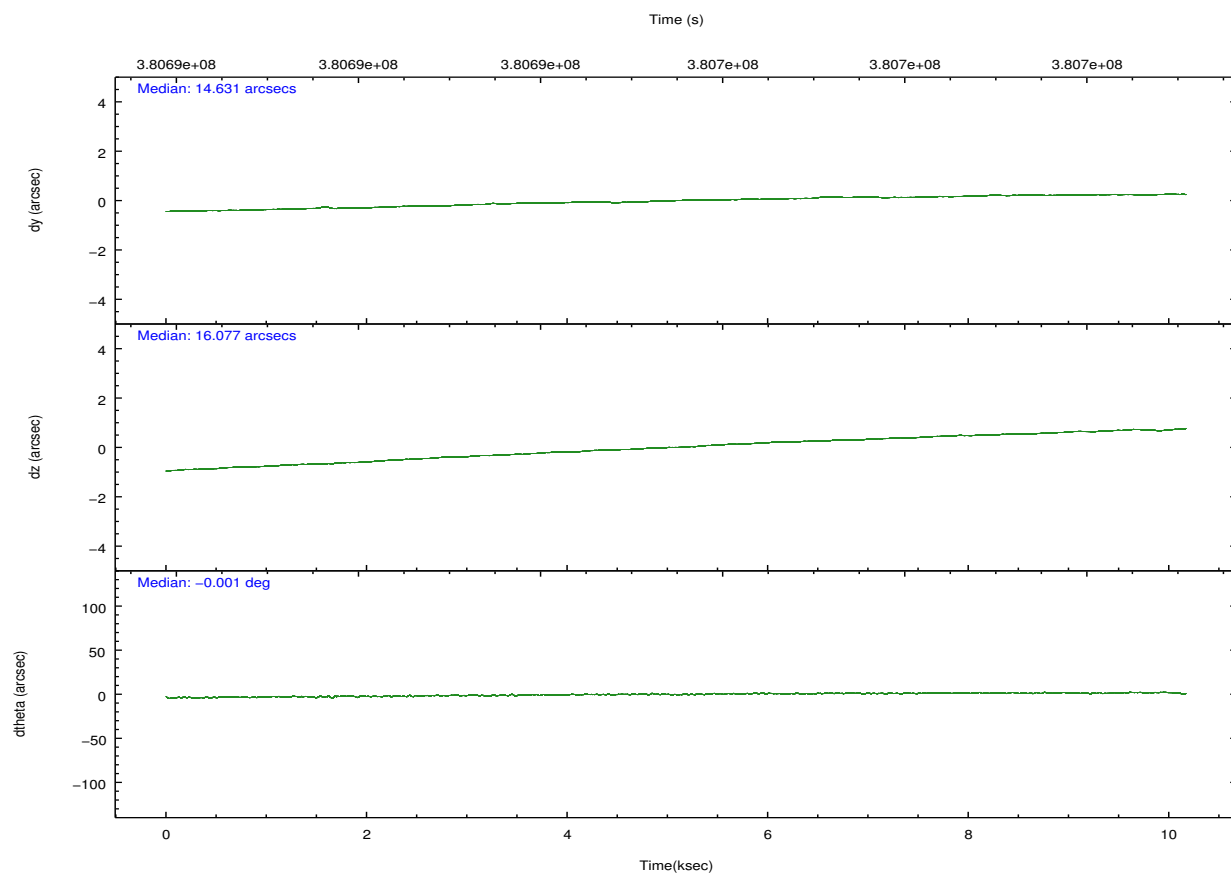
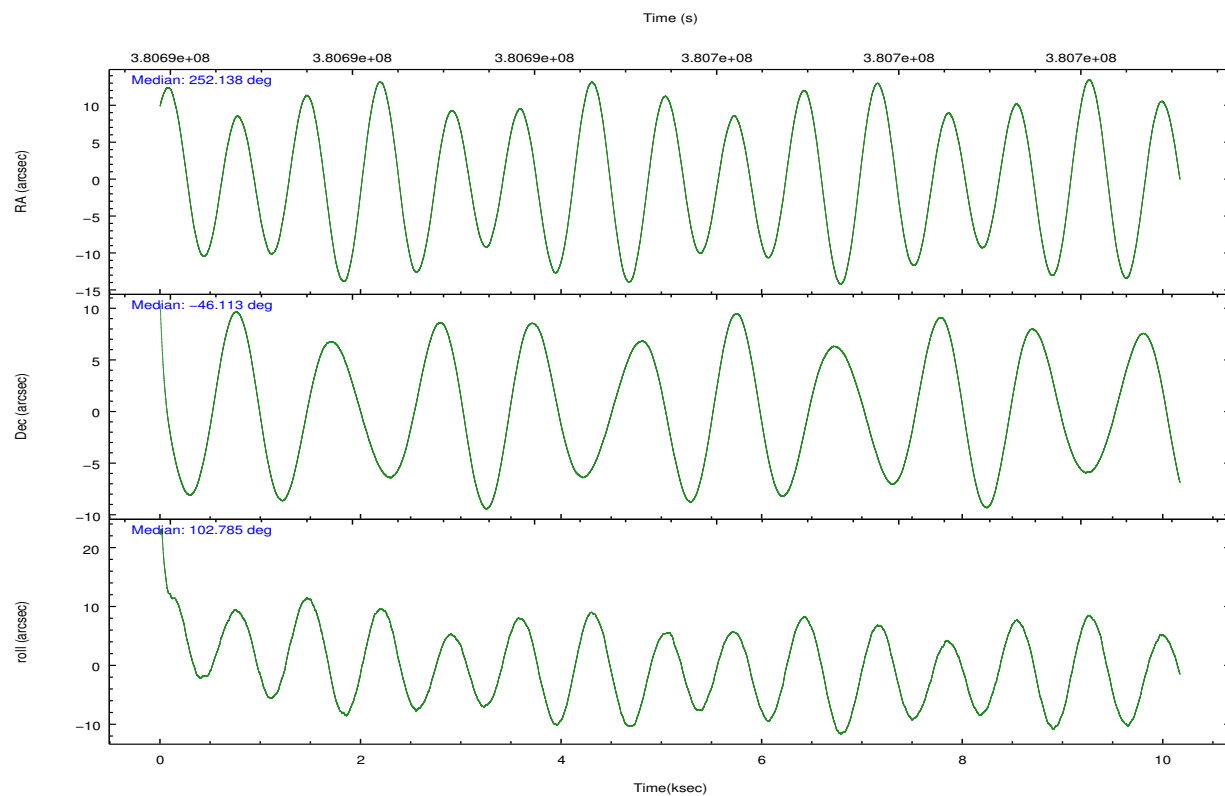


## 2.2 Compared Parameters

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	252.165354	252.1383429789344	CCD I2 on	Y	Y
[deg] Pointing Dec	-46.132805	-46.11270870516309	CCD I3 on	Y	Y
[deg] Pointing Roll	102.604846	102.7940794466309	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	380690571.184000	380689242.05028	CCD S5 on	N	N
Observation start date	2010-01-24T03:21:45	2010-01-24T03:00:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	380700571.184000	380701289.38839	On-chip summing requested	N	N
Observation end date	2010-01-24T06:08:25	2010-01-24T06:21:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



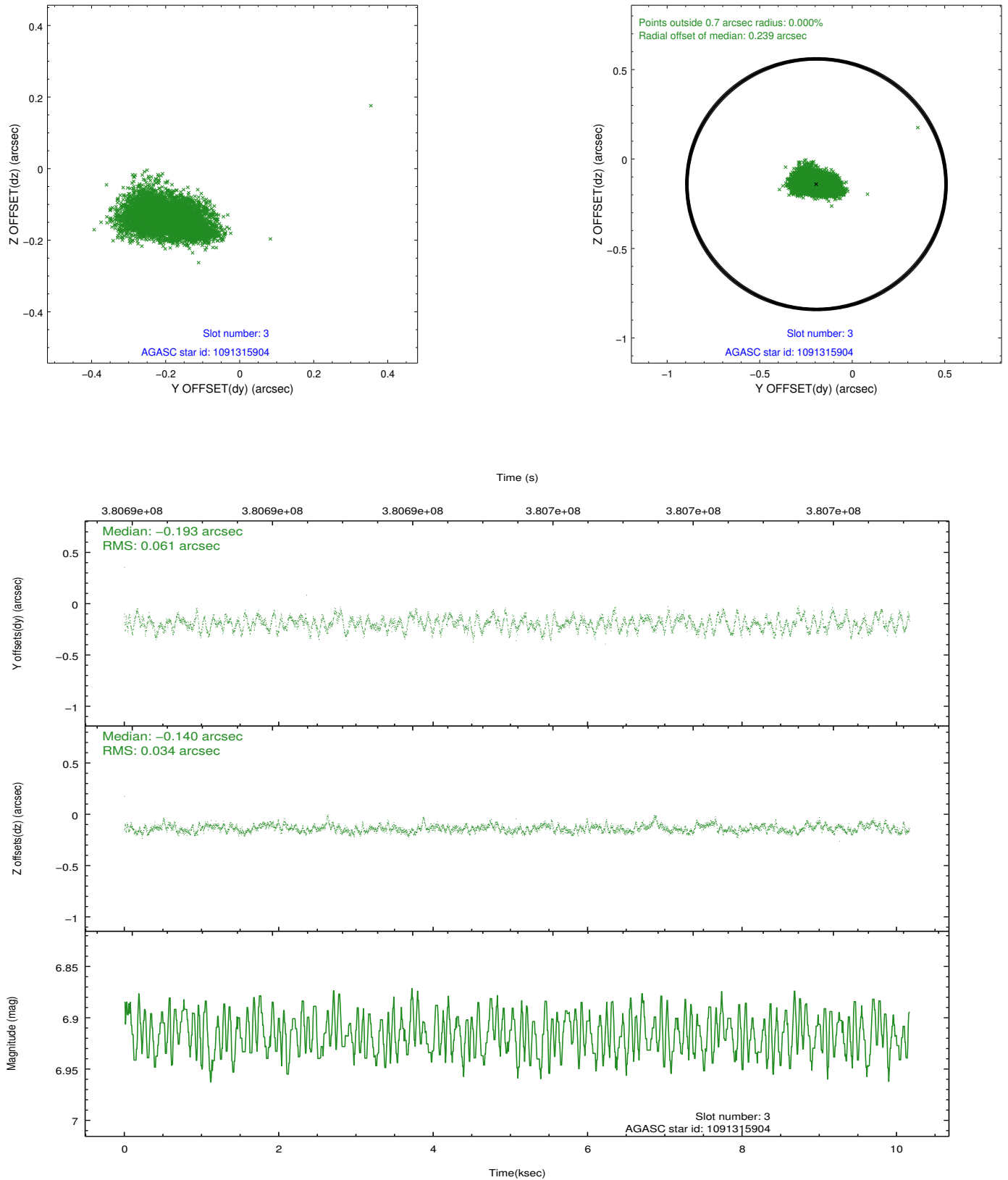


### Slot Statistics

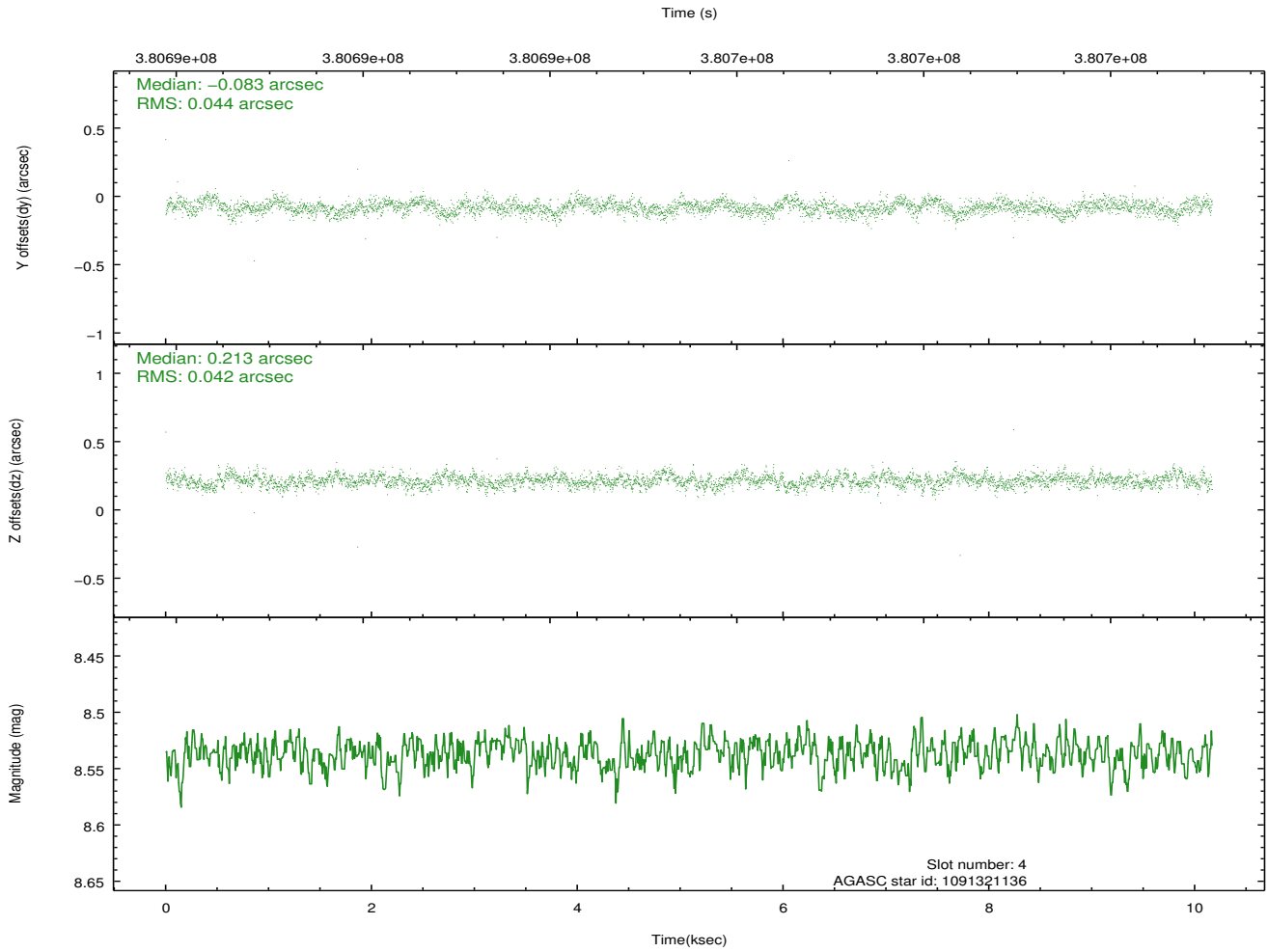
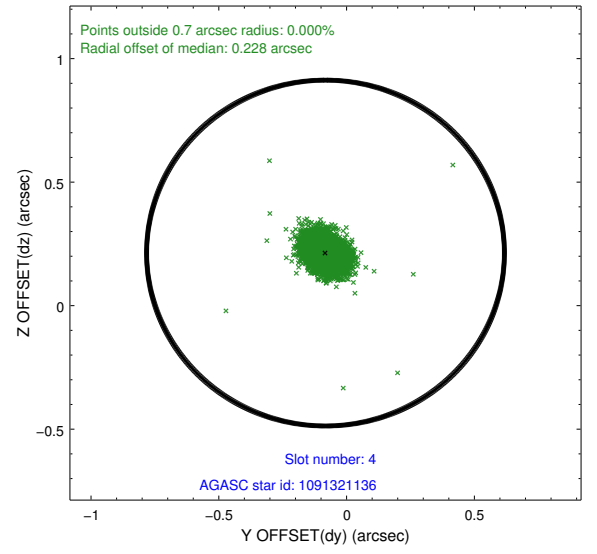
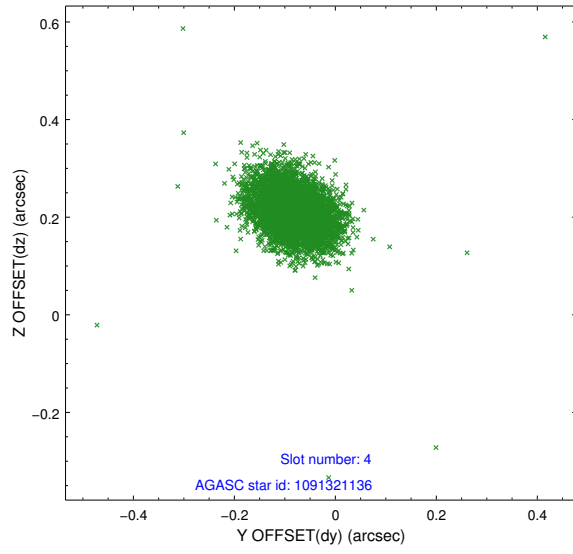
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	2481	0.073	-0.052	0.015	0.036	0.000000	0.000000	924.94	-839.73
1	FID	ACIS-I-5	7.02	2481	-0.239	0.063	0.013	0.021	0.000000	0.000000	-1823.18	1057.62
2	FID	ACIS-I-6	7.02	2481	0.077	0.057	0.013	0.020	0.000000	0.000000	389.94	1702.70
3	GUIDE	1091315904	6.92	4961	-0.193	-0.140	0.075	0.122	252.023077	-45.944918	737.46	200.22
4	GUIDE	1091321136	8.54	4962	-0.083	0.213	0.061	0.102	252.629031	-45.865288	683.46	-1343.13
5	GUIDE	1091321752	6.97	4962	0.128	-0.189	0.066	0.110	251.516776	-46.486101	-896.67	1847.48
6	GUIDE	1091326848	8.86	4955	-0.082	0.214	0.067	0.108	252.143808	-45.528706	2134.18	-420.44
7	GUIDE	1091343368	6.91	4961	0.227	-0.103	0.076	0.126	251.526552	-46.531998	-1063.24	1858.91

## 2.4 Star Slots

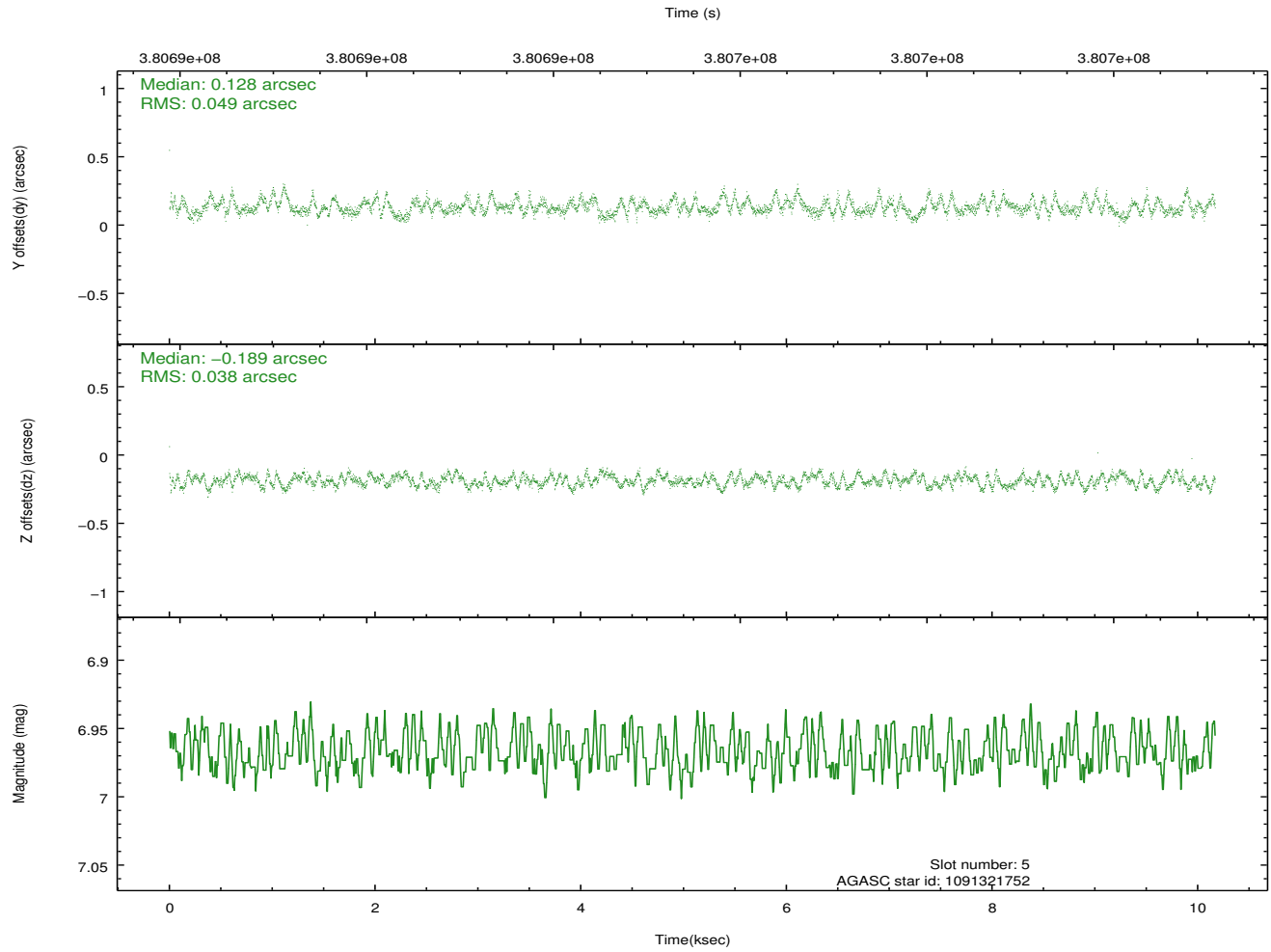
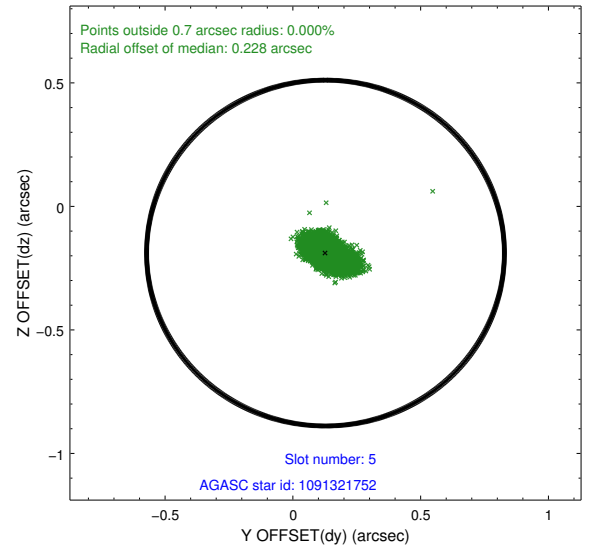
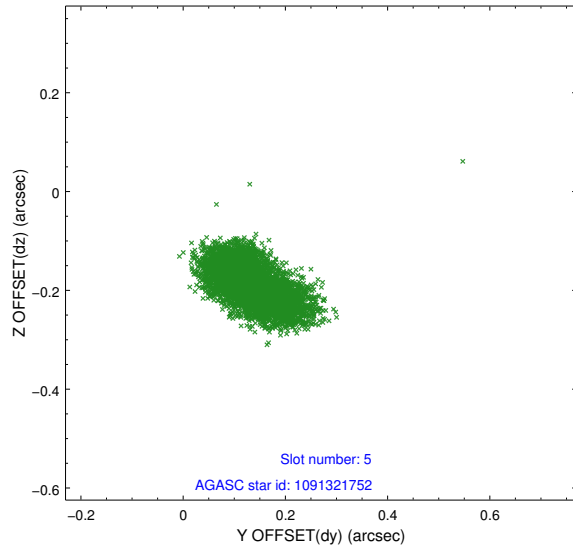
### 2.4.1 Slot 3



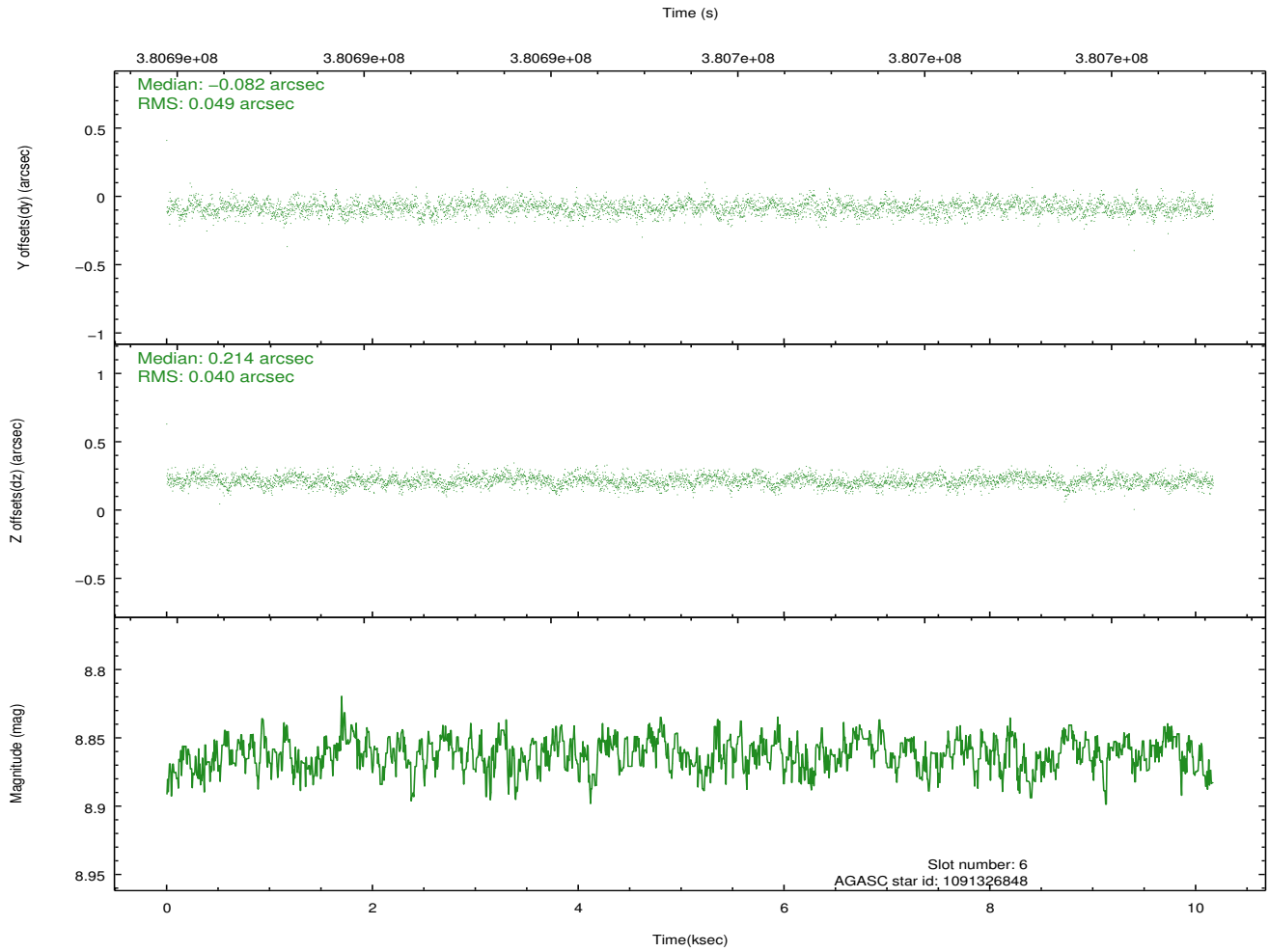
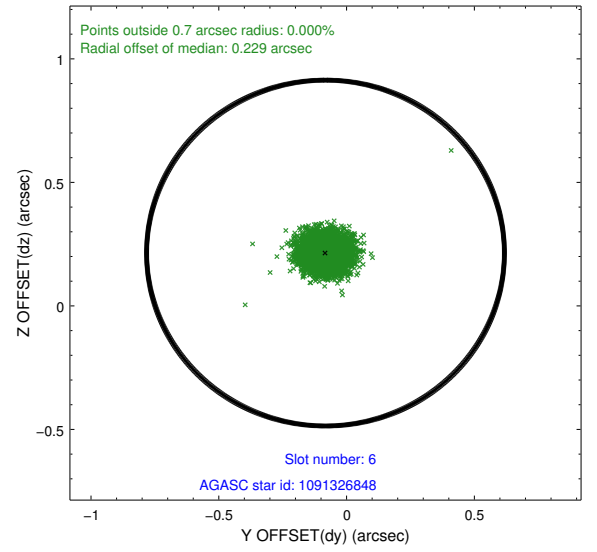
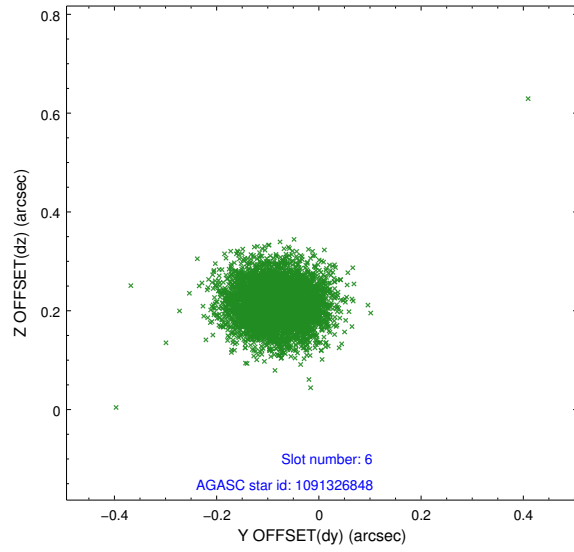
## 2.4.2 Slot 4



### 2.4.3 Slot 5

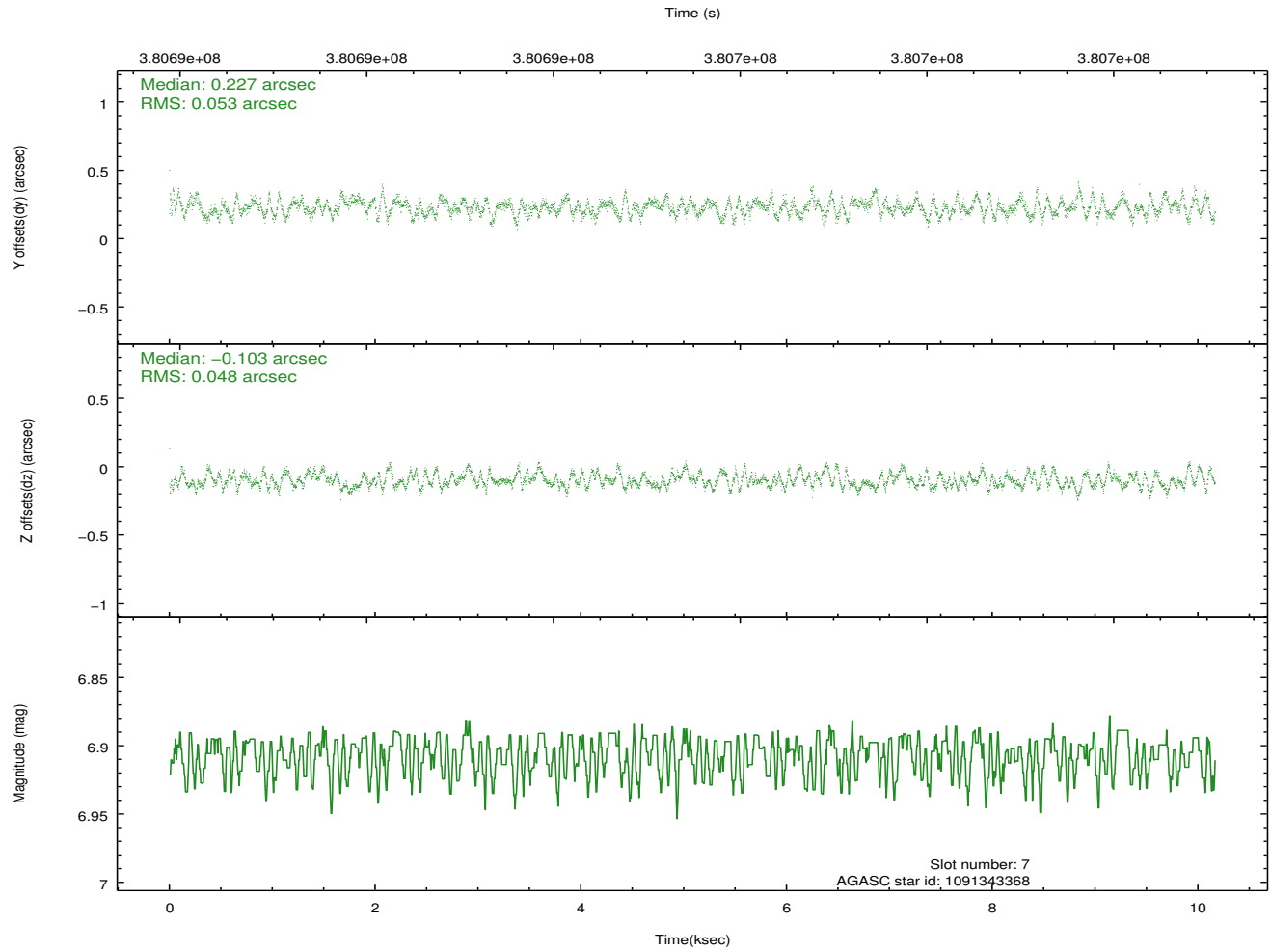
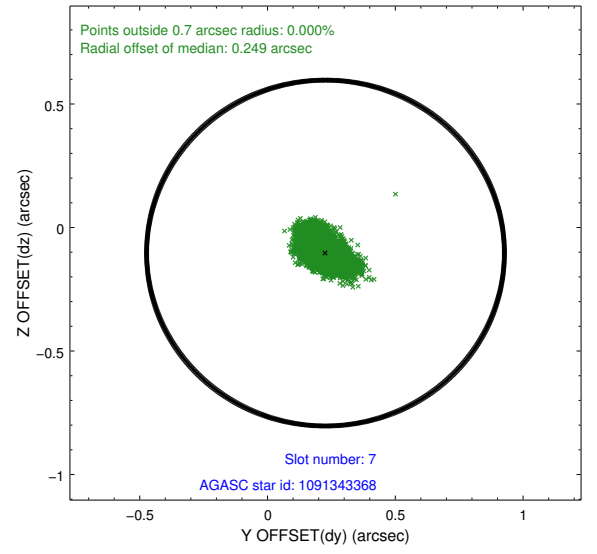
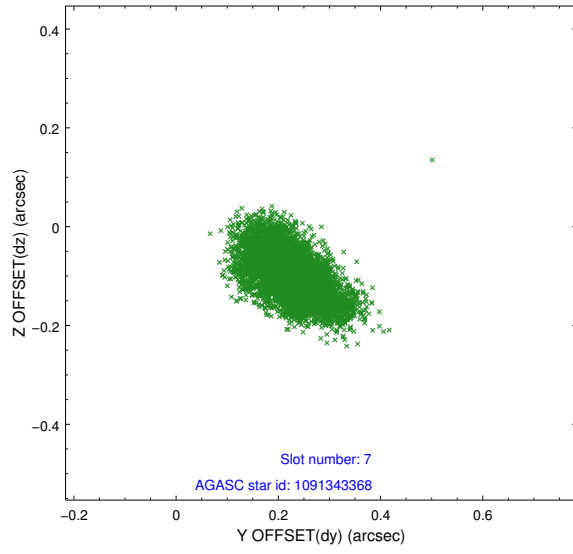


## 2.4.4 Slot 6



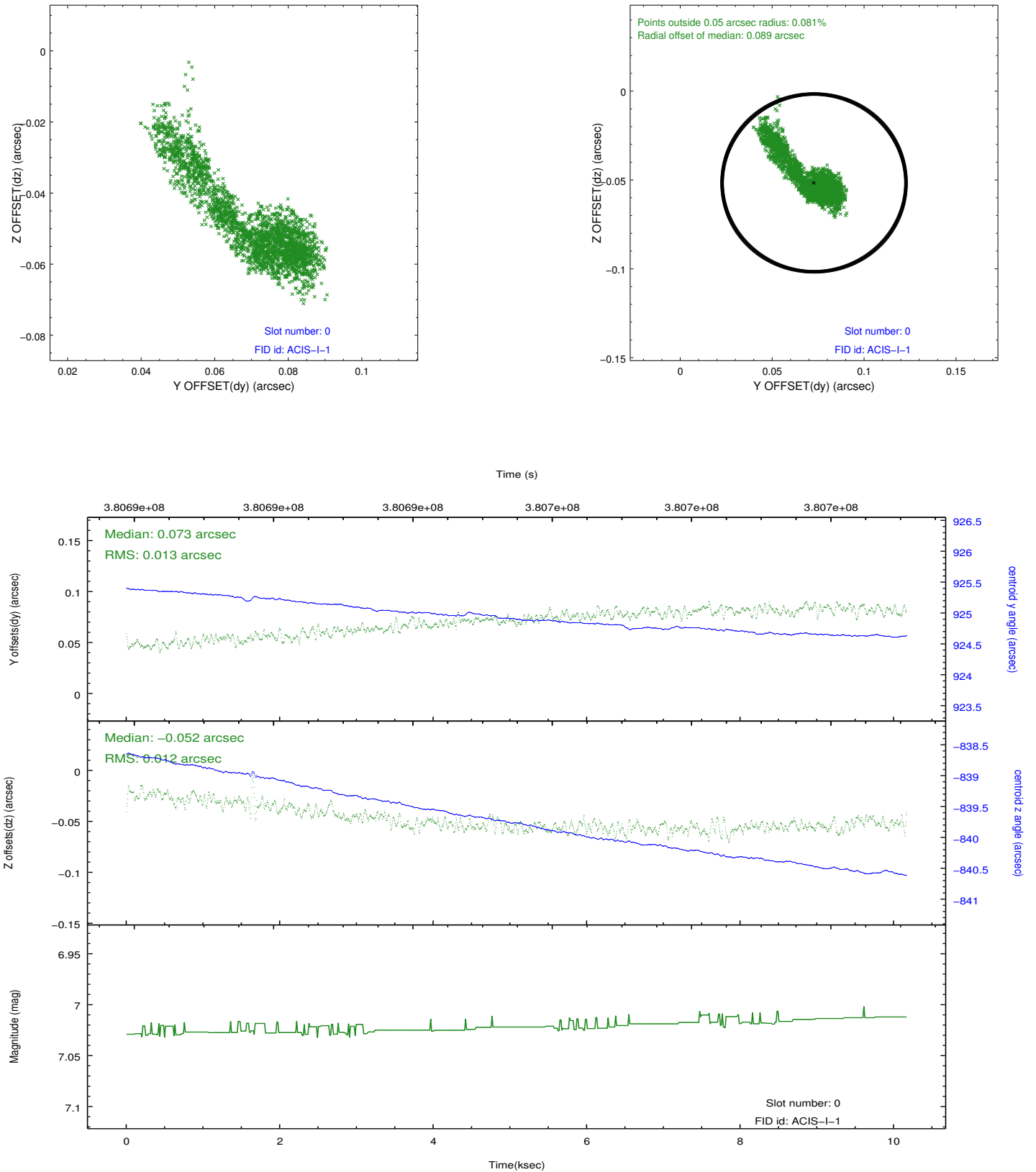


## 2.4.5 Slot 7

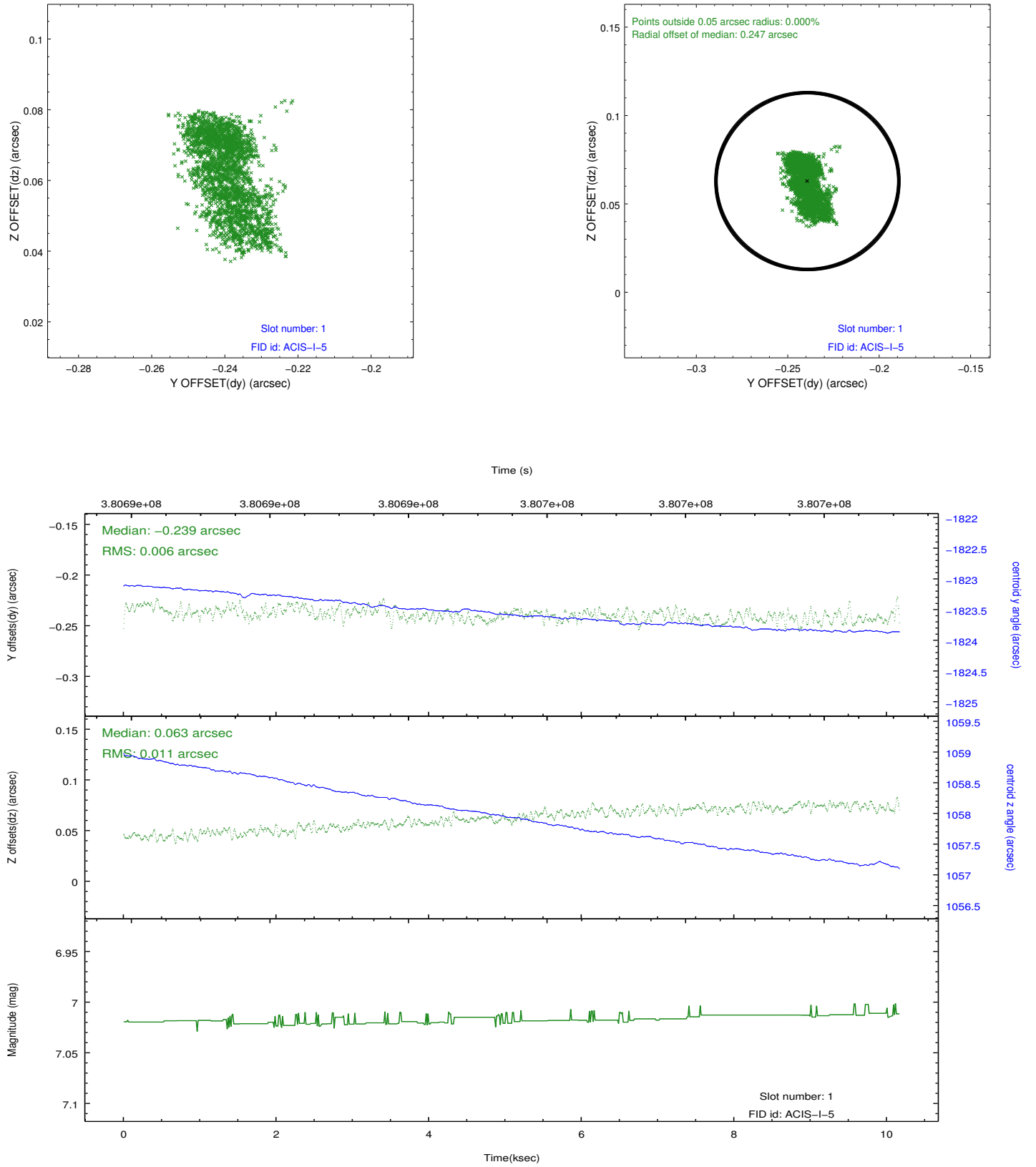


## 2.5 FID Slots

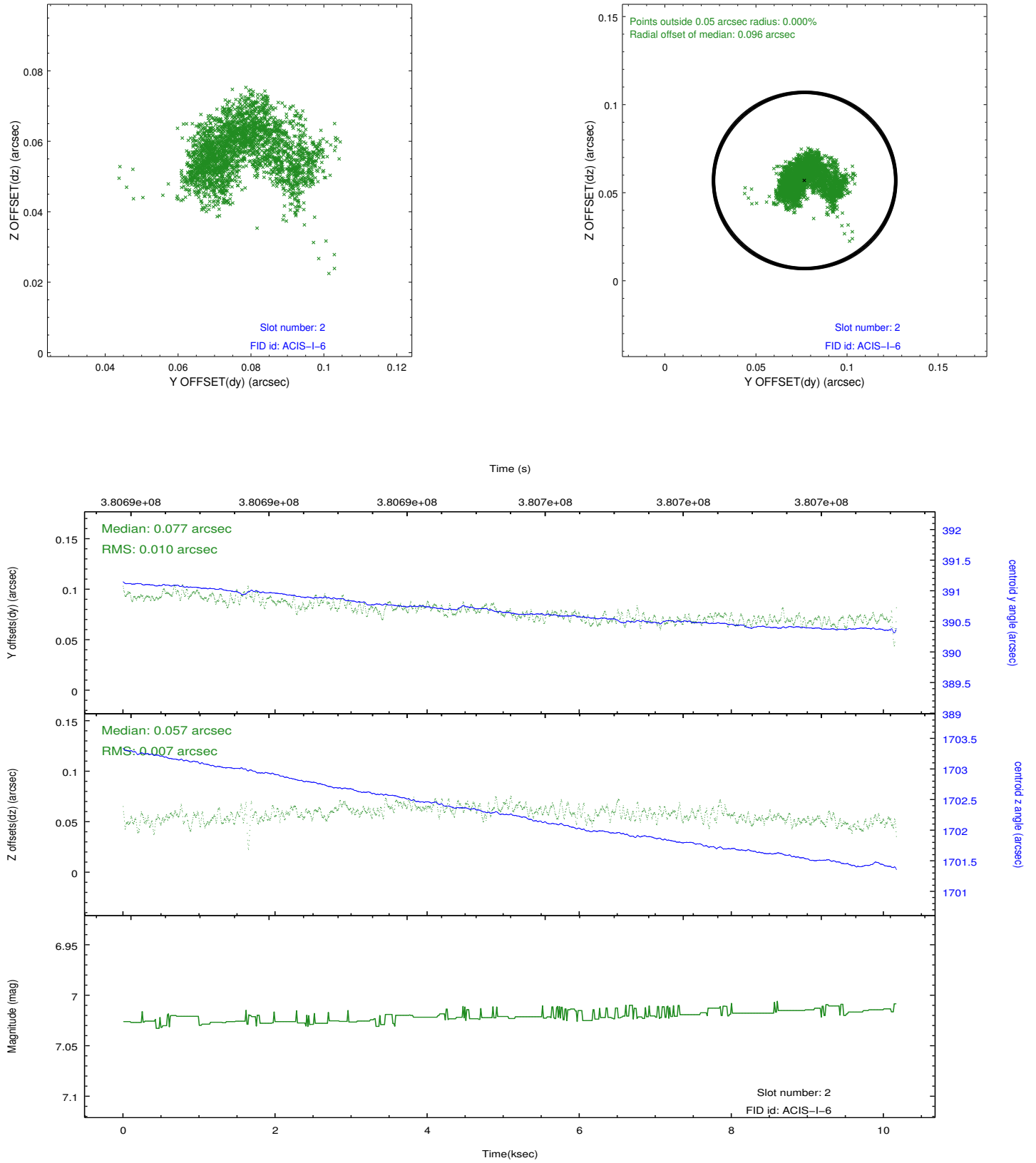
### 2.5.1 Slot 0



## 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)	2012.06.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.163199962199

### **A.2 Comments**