

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8976 - L2 Version 2  
Chandra X-Ray Center

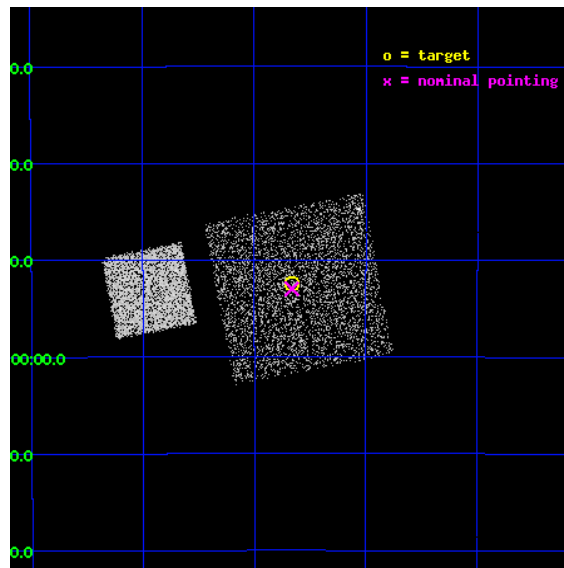
L2 Processing Date : May 21 2012

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# 1 Front

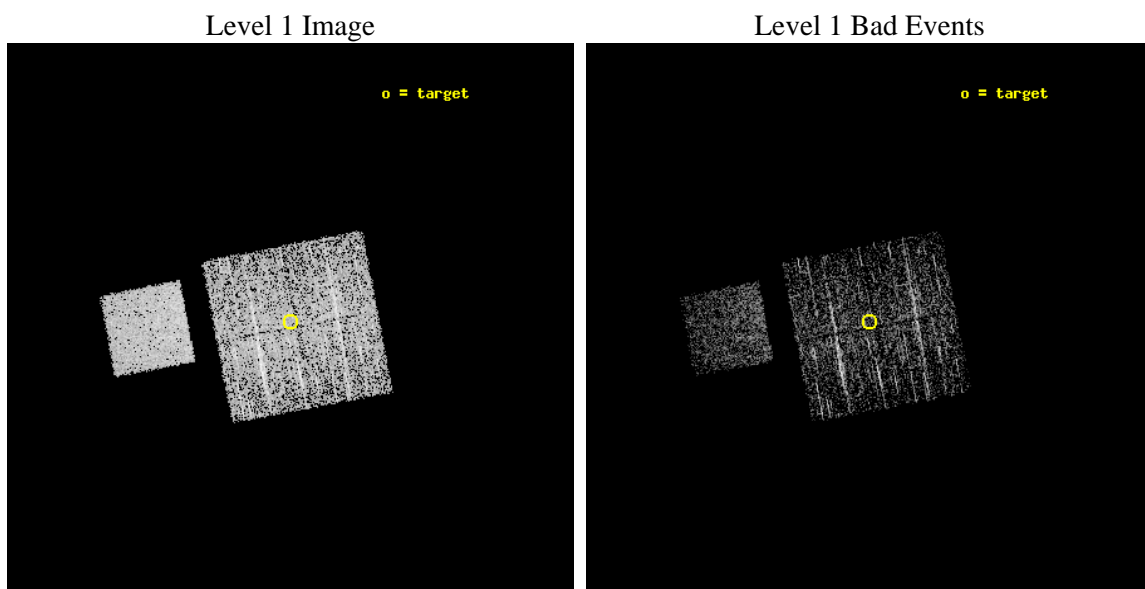
seq_num	400827	Sequence number
obs_id	8976	Observation id
title	Chandra follow-up of a weak persistent source found in INTEGRAL maps	&#160
observer	Prof Mariano Mendez	Principal investigator
object	XTE J1716-389	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.915	Observer's specified target RA [deg]
dec_targ	-38.875	Observer's specified target Dec [deg]
ra_nom	258.91572030678	Nominal RA [deg]
dec_nom	-38.883033533931	Nominal Dec [deg]
roll_nom	259.20891629757	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1156.300008893	Sum of GTIs [s]
livetime	1141.1920980211	Livetime [s]
ontime0	1156.300008893	Sum of GTIs [s]
ontime1	1153.1590485573	Sum of GTIs [s]
ontime2	1156.300008893	Sum of GTIs [s]
ontime3	1156.300008893	Sum of GTIs [s]
ontime7	1156.300008893	Sum of GTIs [s]
l2events	11817	Number of level 2 events



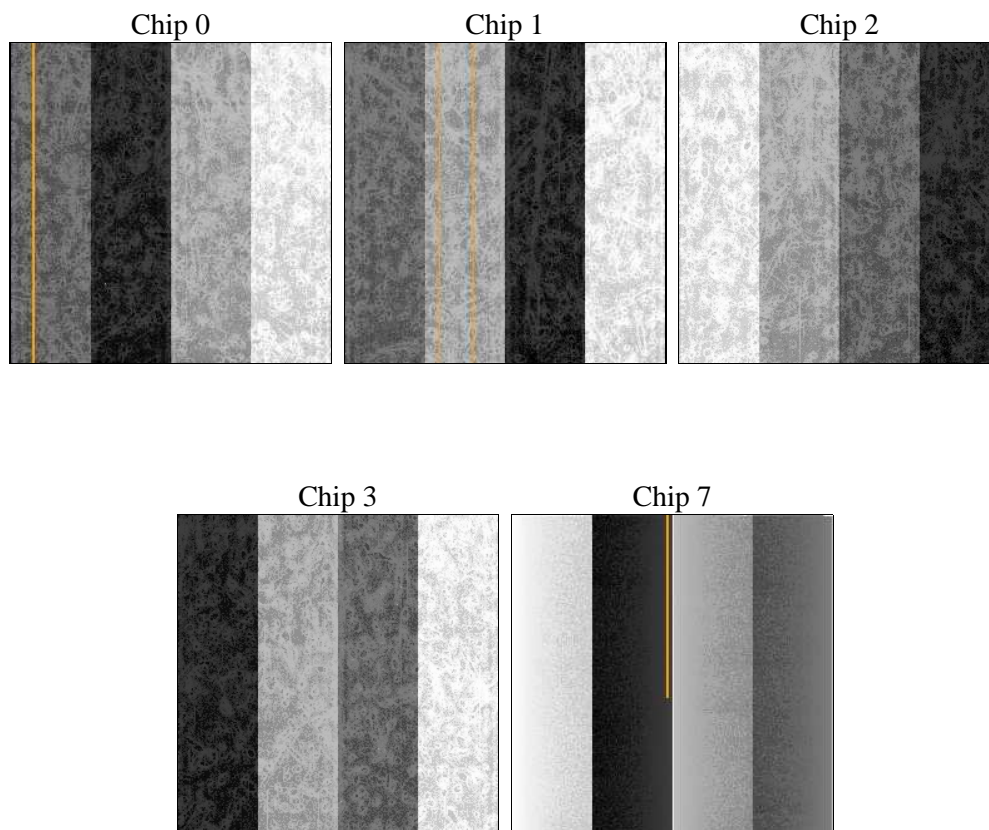
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	1156.300008893	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	1156.300008893	Sum of GTIs [s]
date	2012-05-21T20:29:29	Date and time of file creation	ontime1	1153.1590485573	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1156.300008893	Sum of GTIs [s]
			ontime3	1156.300008893	Sum of GTIs [s]
			ontime7	1156.300008893	Sum of GTIs [s]
			l1events	139670	Number of level 1 events

### 2.1.4 Events

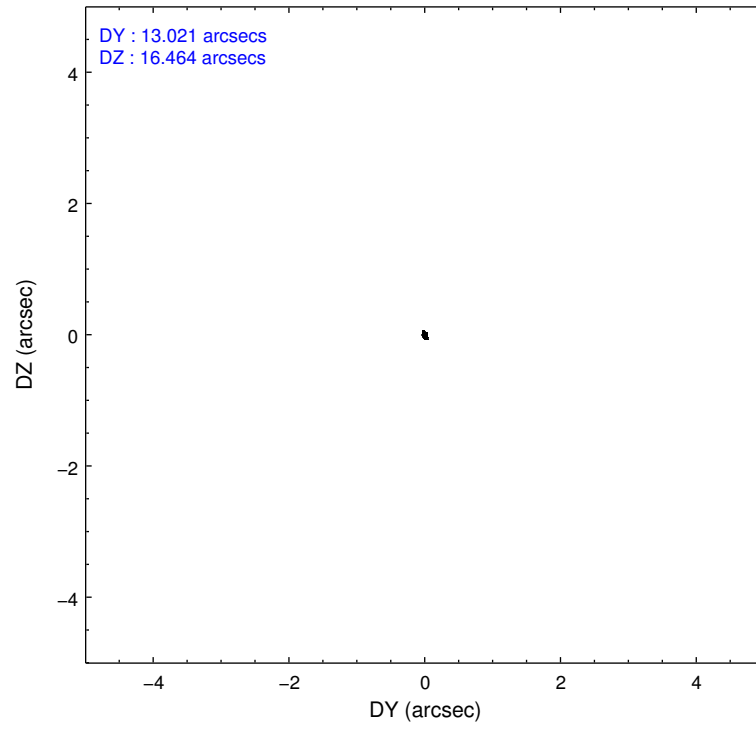
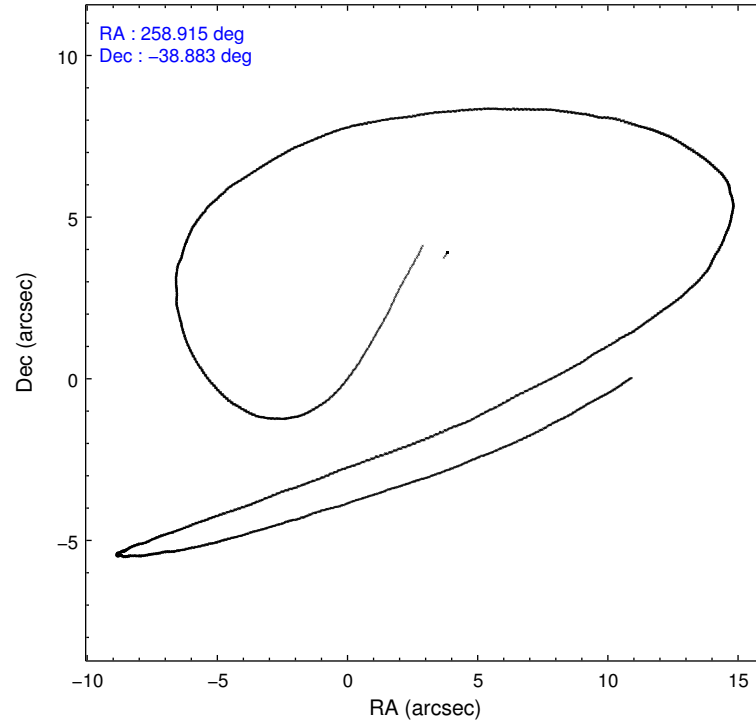
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	24323	24906	26387	26287	37767
rejected events	22861	23274	24858	24809	31058
rejected %	93%	93%	94%	94%	82%

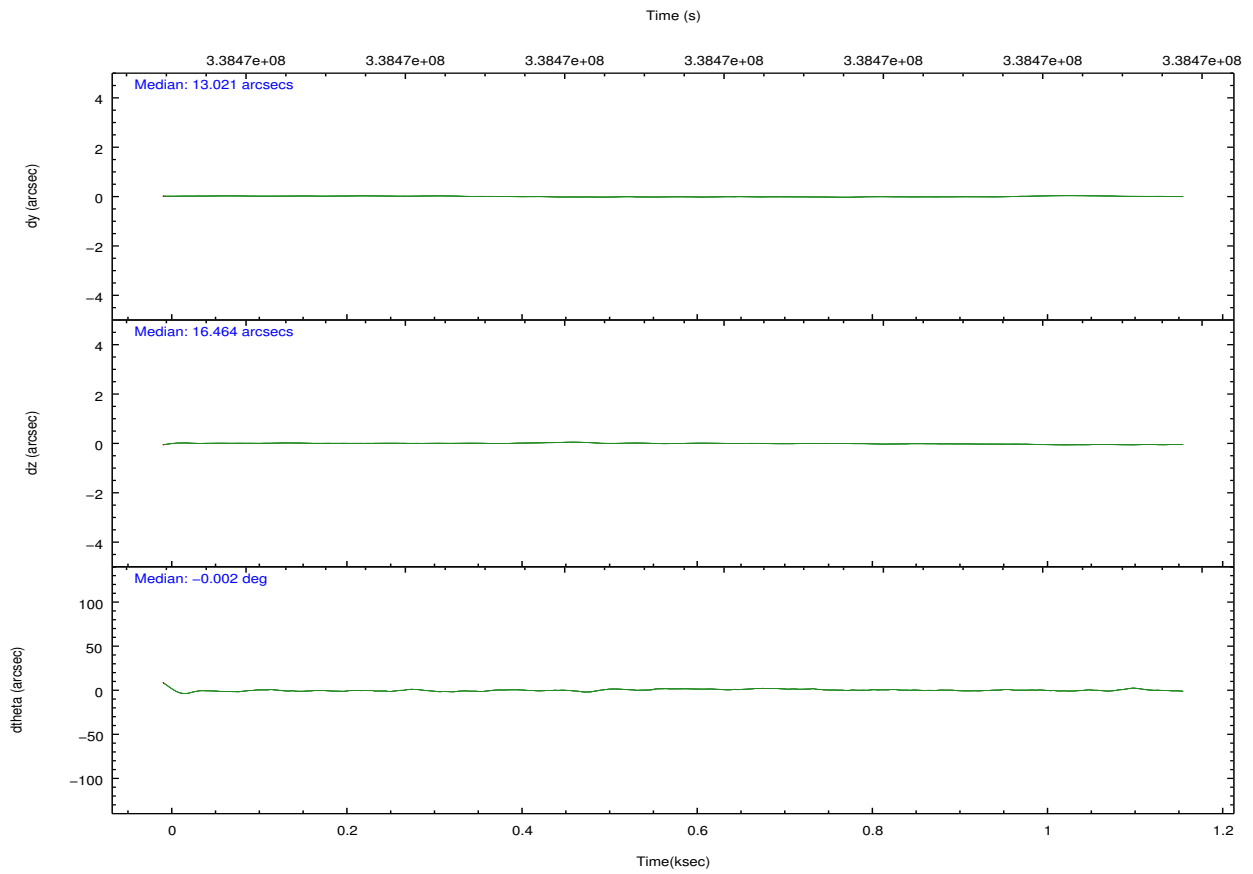
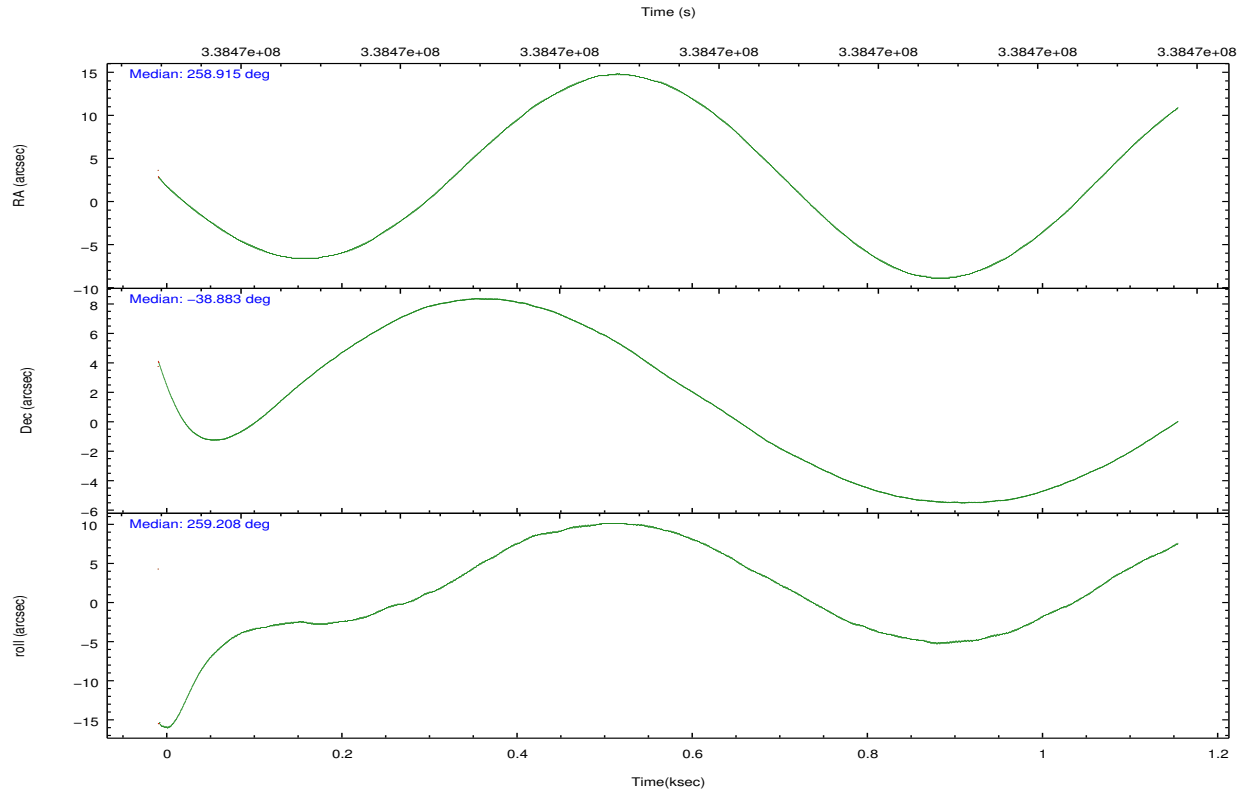
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1497	1524	1605	1512	1342
	6%	6%	6%	5%	3%
grade 1 events	16	16	14	15	36
	0%	0%	0%	0%	0%
grade 2 events	761	788	703	694	3251
	3%	3%	2%	2%	8%
grade 3 events	286	385	274	308	1329
	1%	1%	1%	1%	3%
grade 4 events	273	336	295	319	1265
	1%	1%	1%	1%	3%
grade 5 events	1116	1183	1010	1277	3492
	4%	4%	3%	4%	9%
grade 6 events	587	748	550	558	8401
	2%	3%	2%	2%	22%
grade 7 events	19787	19926	21936	21604	18651
	81%	80%	83%	82%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	258.904420	258.9157203067792	CCD I2 on	Y	Y
[deg] Pointing Dec	-38.857105	-38.88303353393063	CCD I3 on	Y	Y
[deg] Pointing Roll	258.993367	259.2089162975652	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	O1	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	338473114.184000	338471365.69421	CCD S5 on	N	N
Observation start date	2008-09-22T12:17:29	2008-09-22T11:49:25	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	338474114.184000	338475005.46939	On-chip summing requested	N	N
Observation end date	2008-09-22T12:34:09	2008-09-22T12:50:05	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





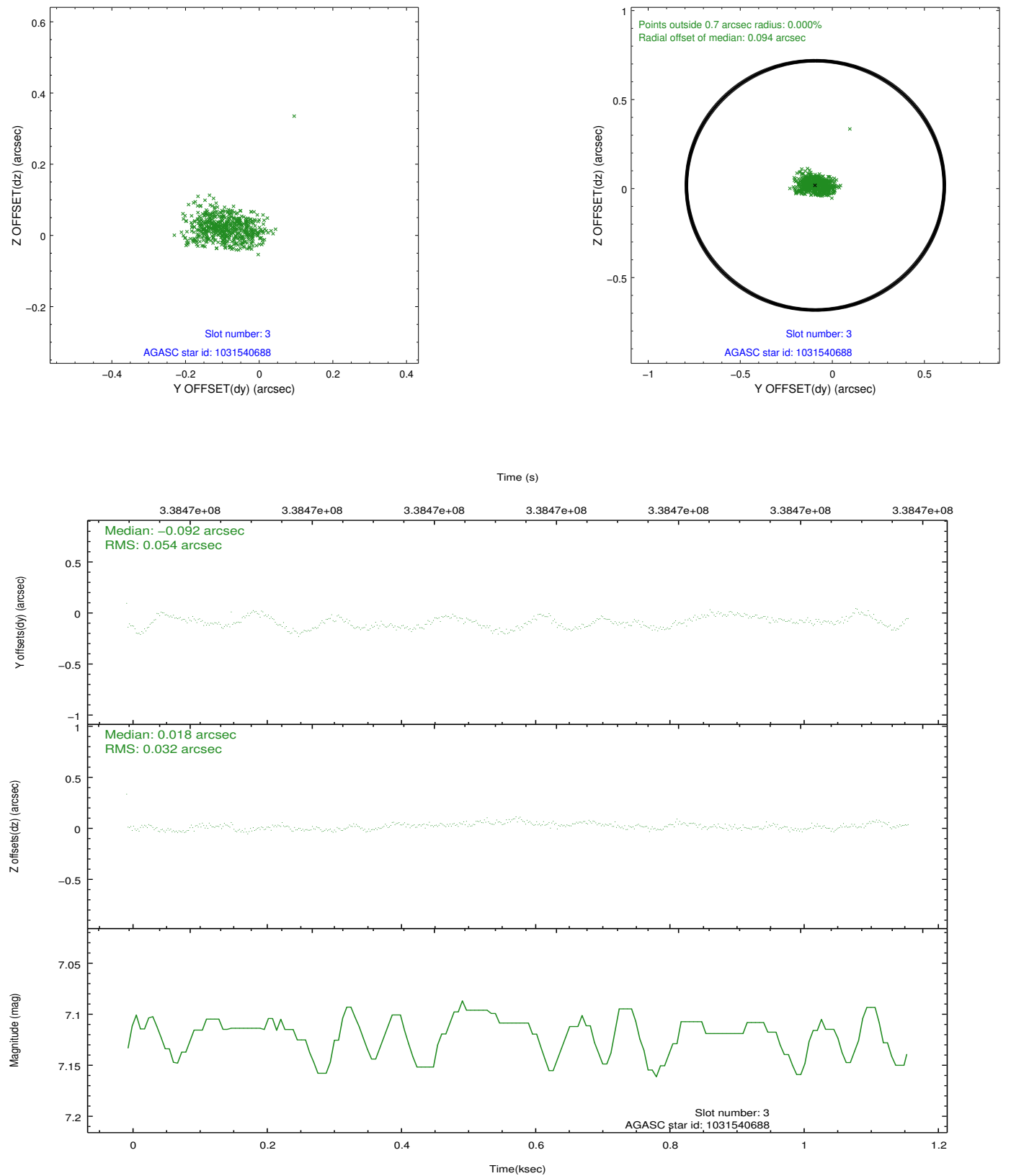
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	284	-0.052	-0.015	0.008	0.016	0.000000	0.000000	926.43	-840.11
1	FID	ACIS-I-2	6.94	284	-0.142	-0.049	0.013	0.021	0.000000	0.000000	-764.57	-849.46
2	FID	ACIS-I-4	6.93	285	0.097	0.131	0.011	0.020	0.000000	0.000000	2143.87	1056.93
3	GUIDE	1031540688	7.12	569	-0.092	0.018	0.065	0.108	258.843021	-38.212972	-2243.12	-611.90
4	GUIDE	1031545688	8.57	569	0.040	-0.008	0.076	0.120	259.343302	-39.044115	425.53	1333.88
5	GUIDE	1031549032	7.99	569	0.057	-0.113	0.086	0.122	258.584727	-38.516573	-1029.11	-1114.15
6	GUIDE	1031549480	7.85	569	-0.074	0.024	0.054	0.084	258.859583	-38.394348	-1613.01	-442.88
7	GUIDE	1032064496	7.21	568	0.060	0.092	0.091	0.135	259.271174	-39.429374	1826.89	1395.57

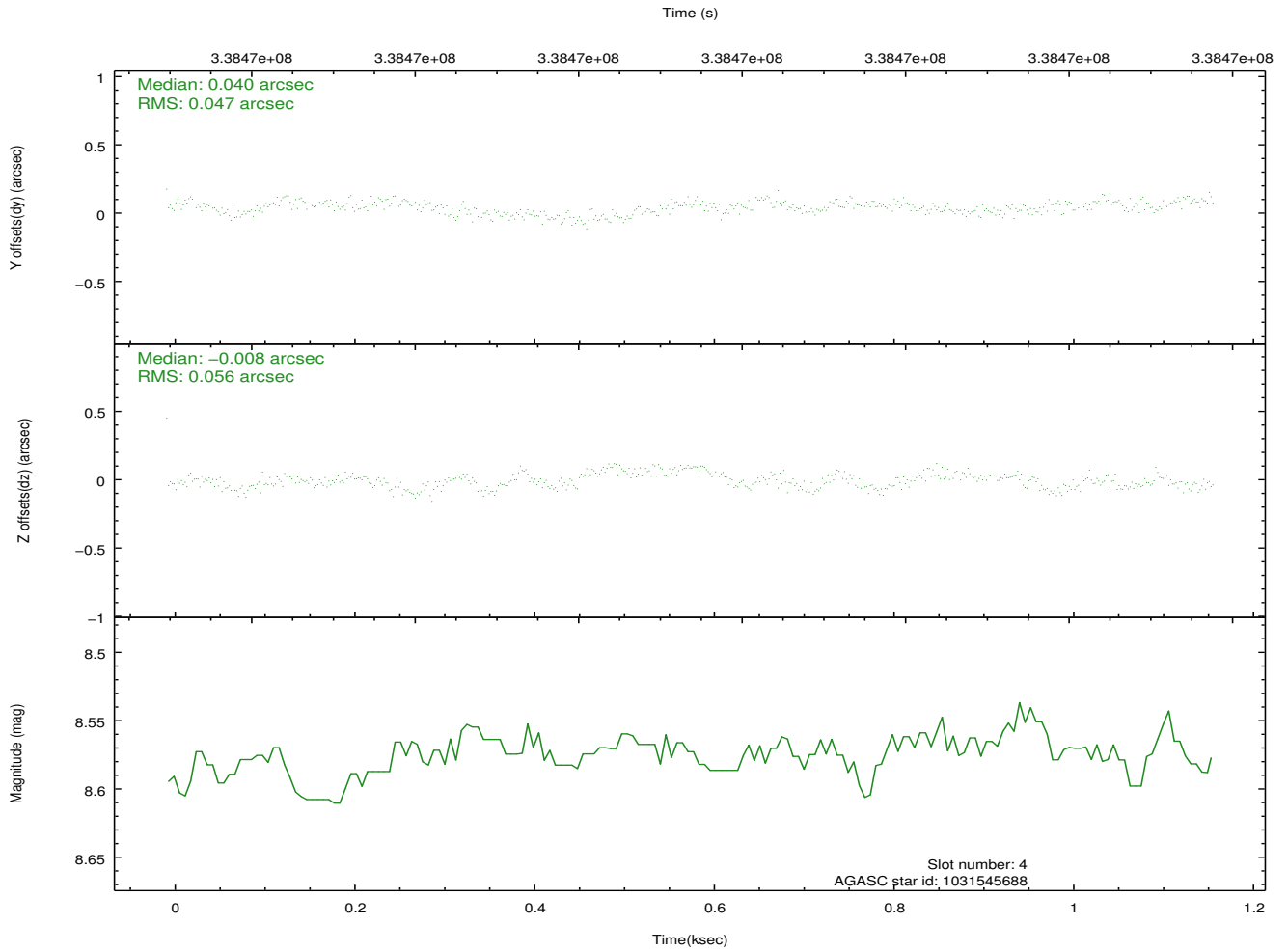
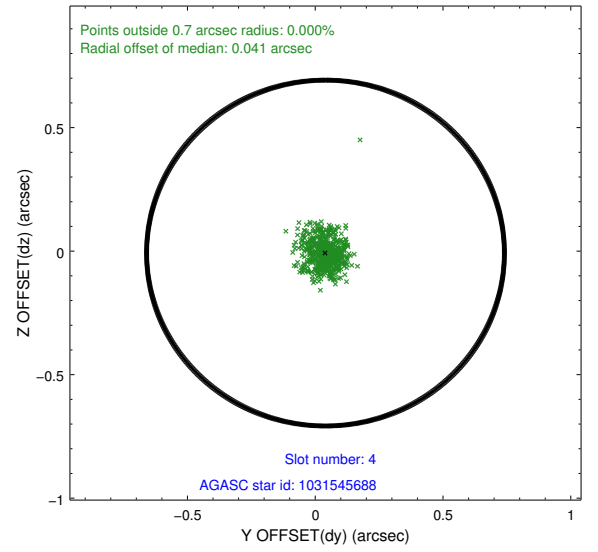
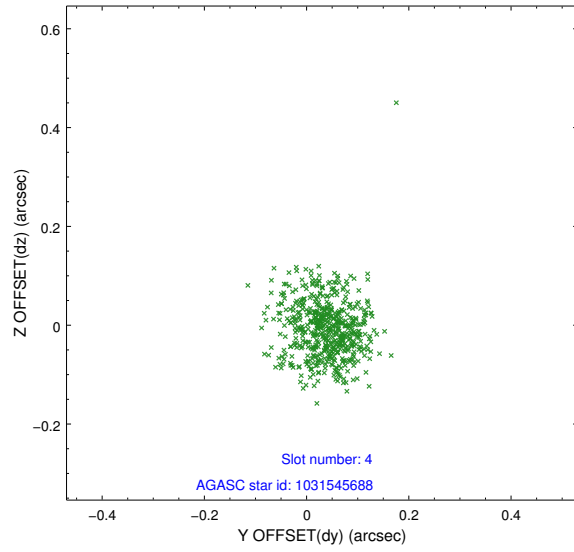


## 2.4 Star Slots

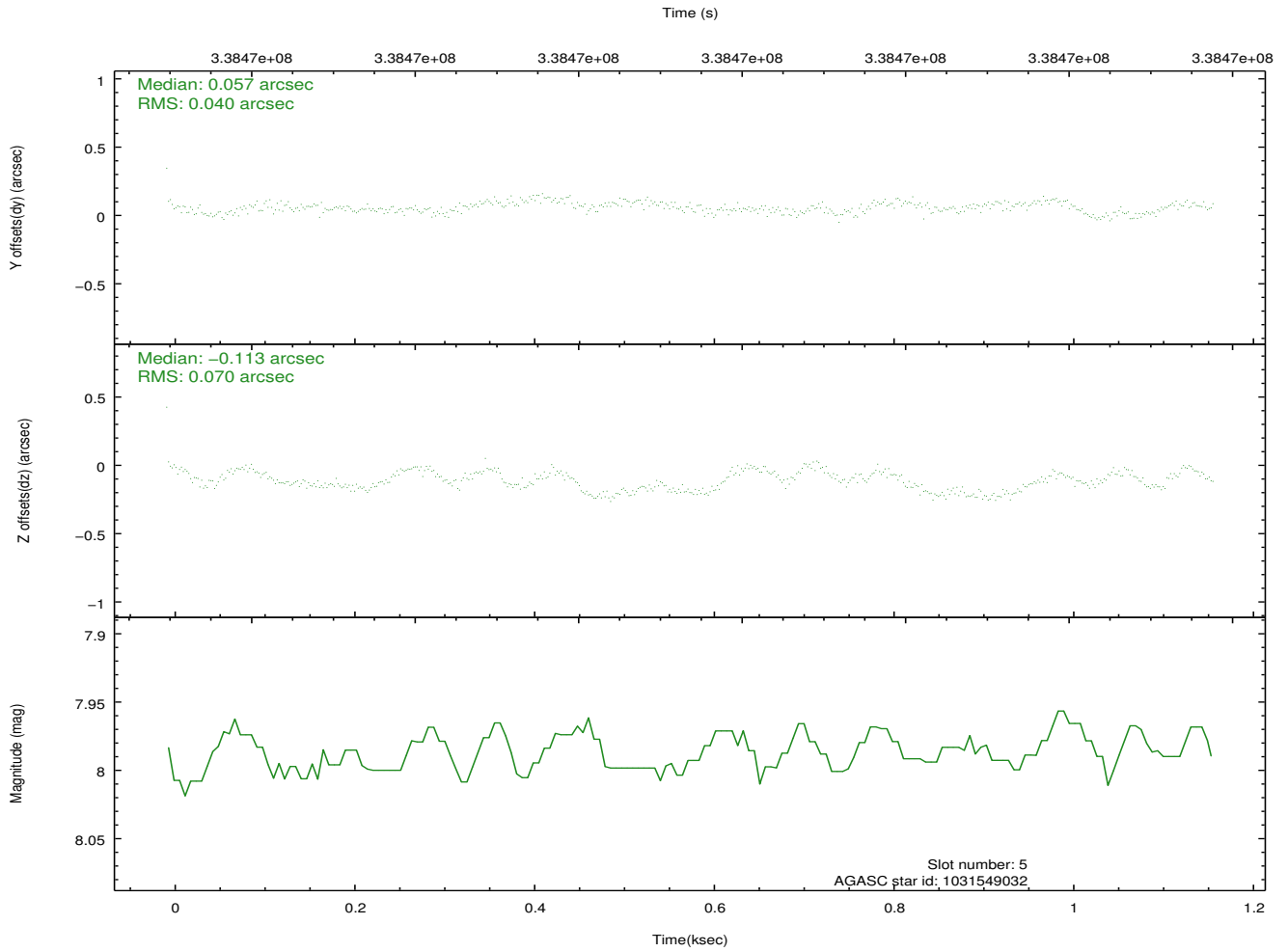
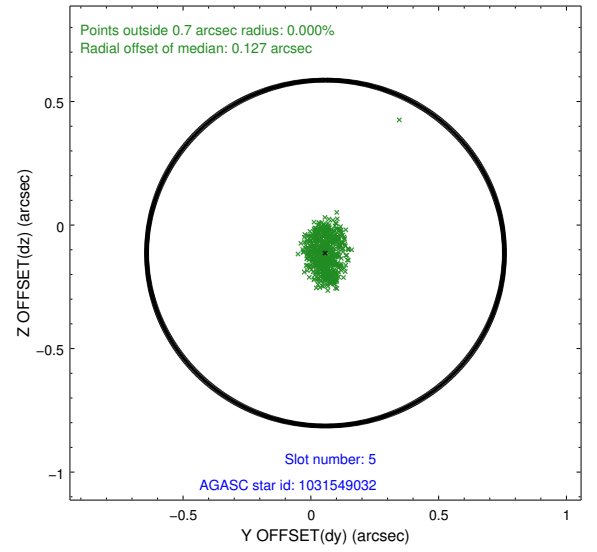
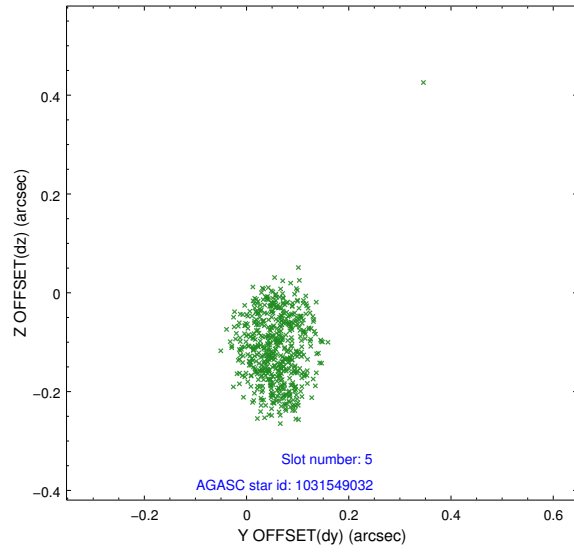
### 2.4.1 Slot 3



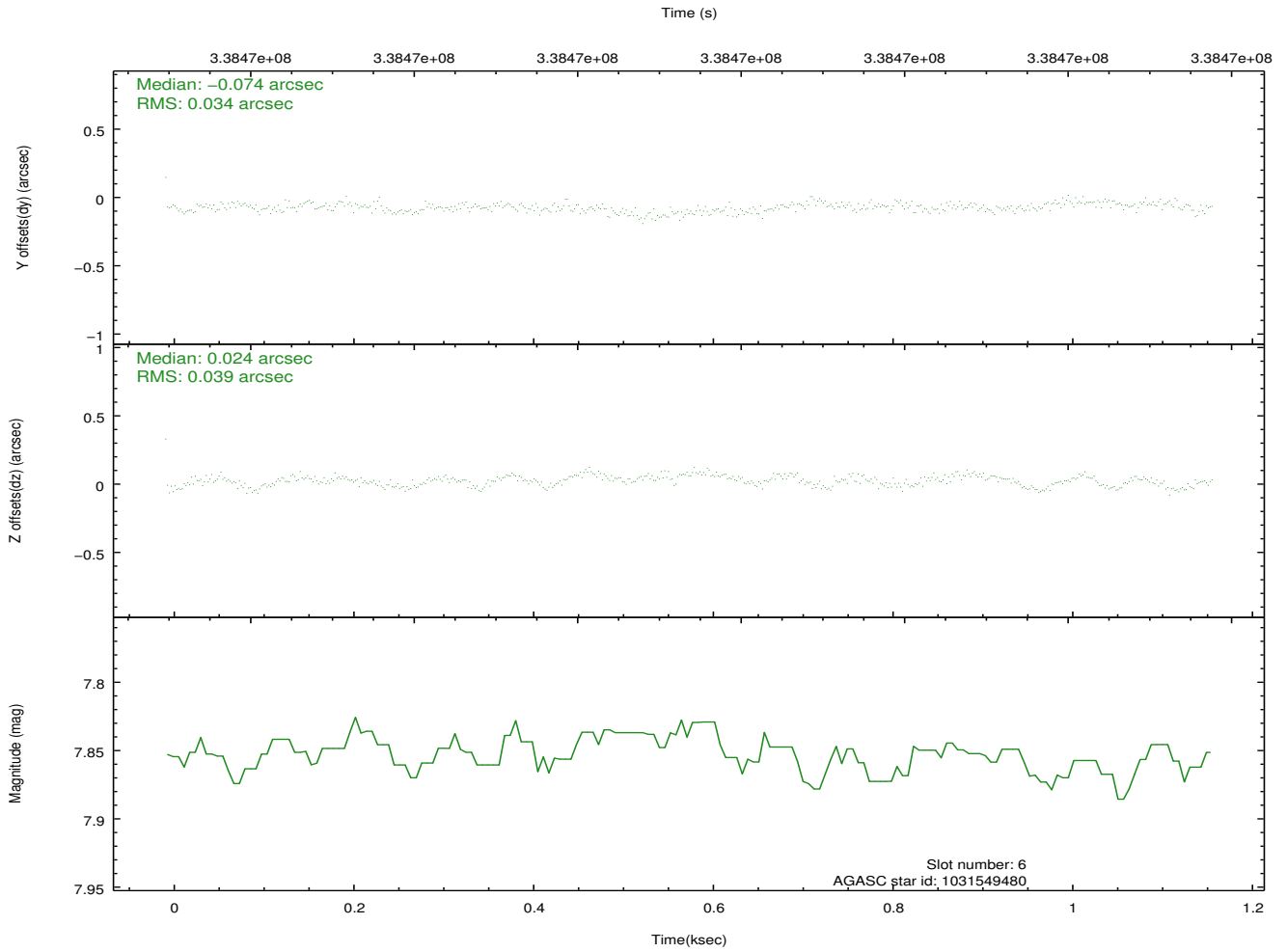
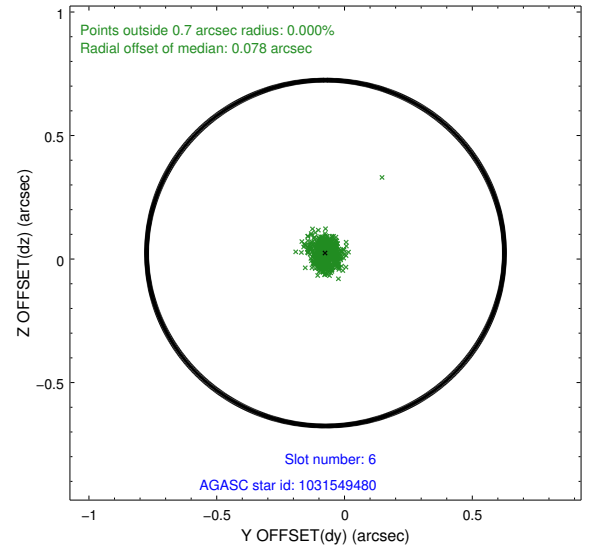
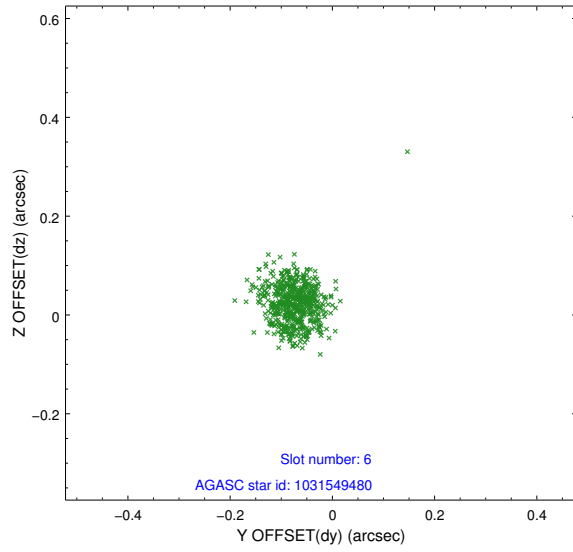
## 2.4.2 Slot 4



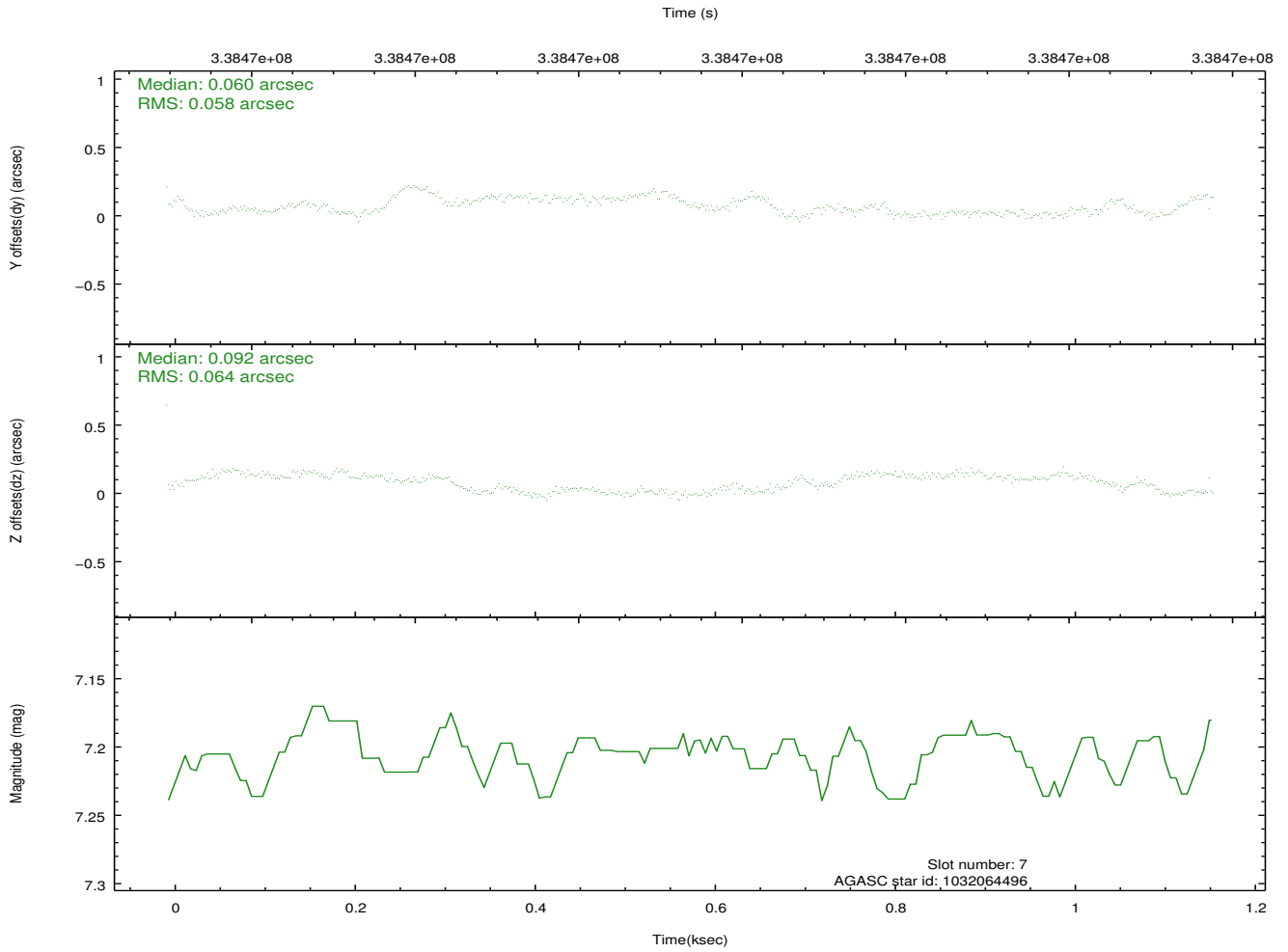
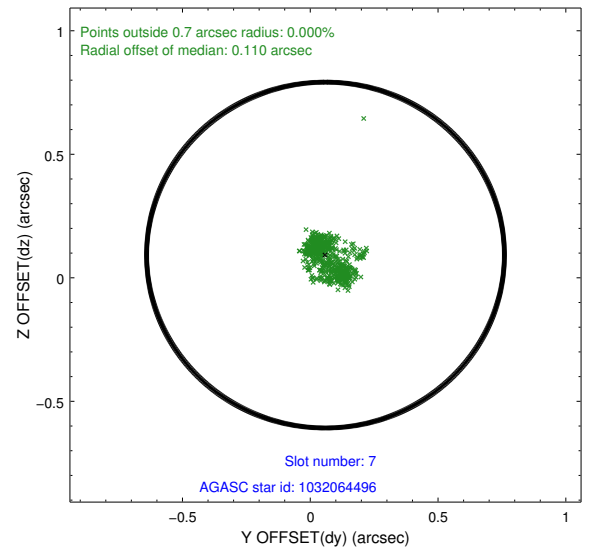
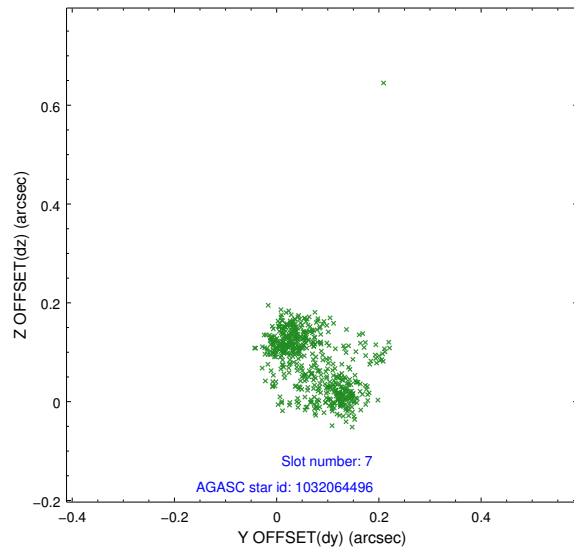
### 2.4.3 Slot 5



## 2.4.4 Slot 6

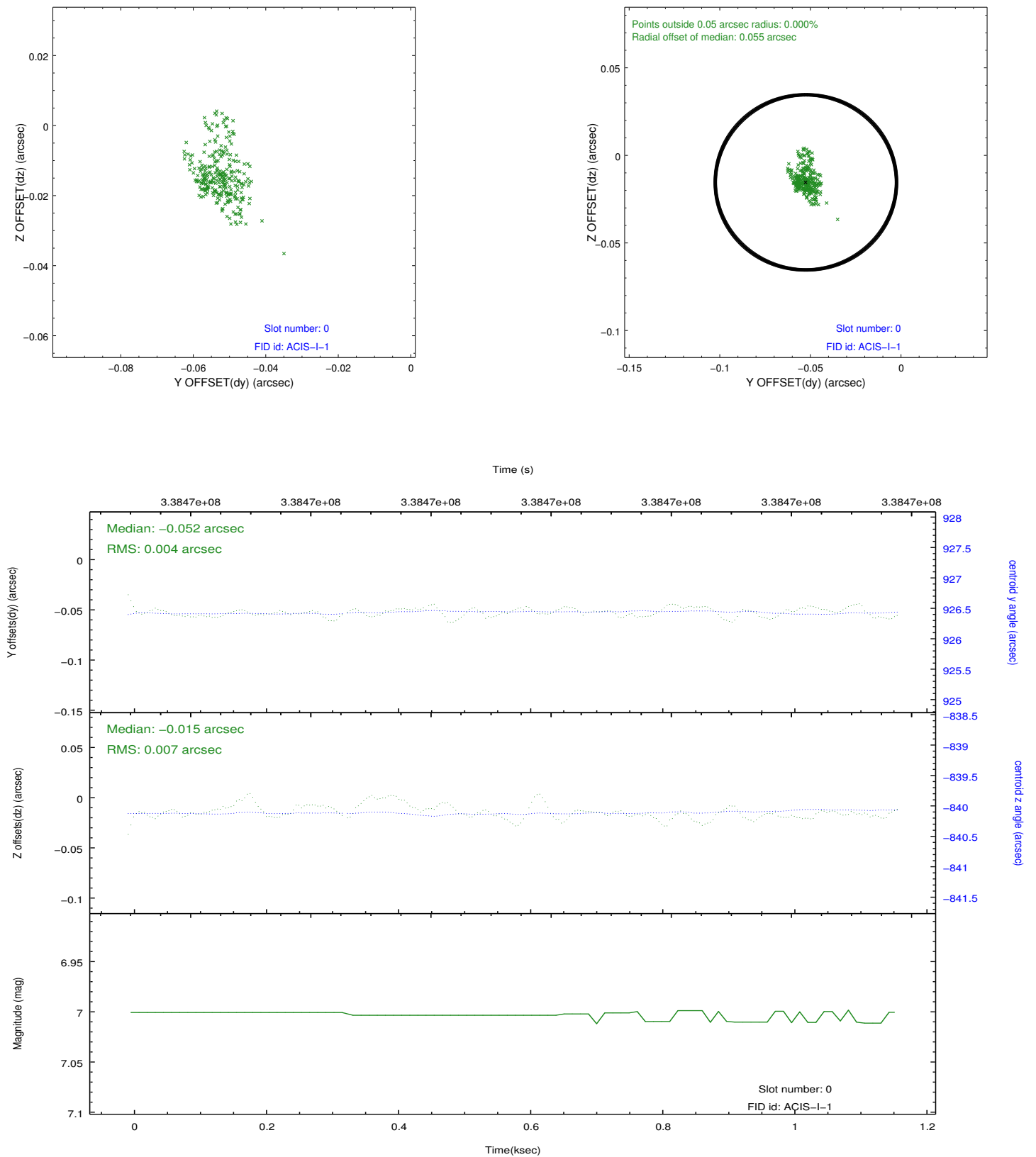


## 2.4.5 Slot 7

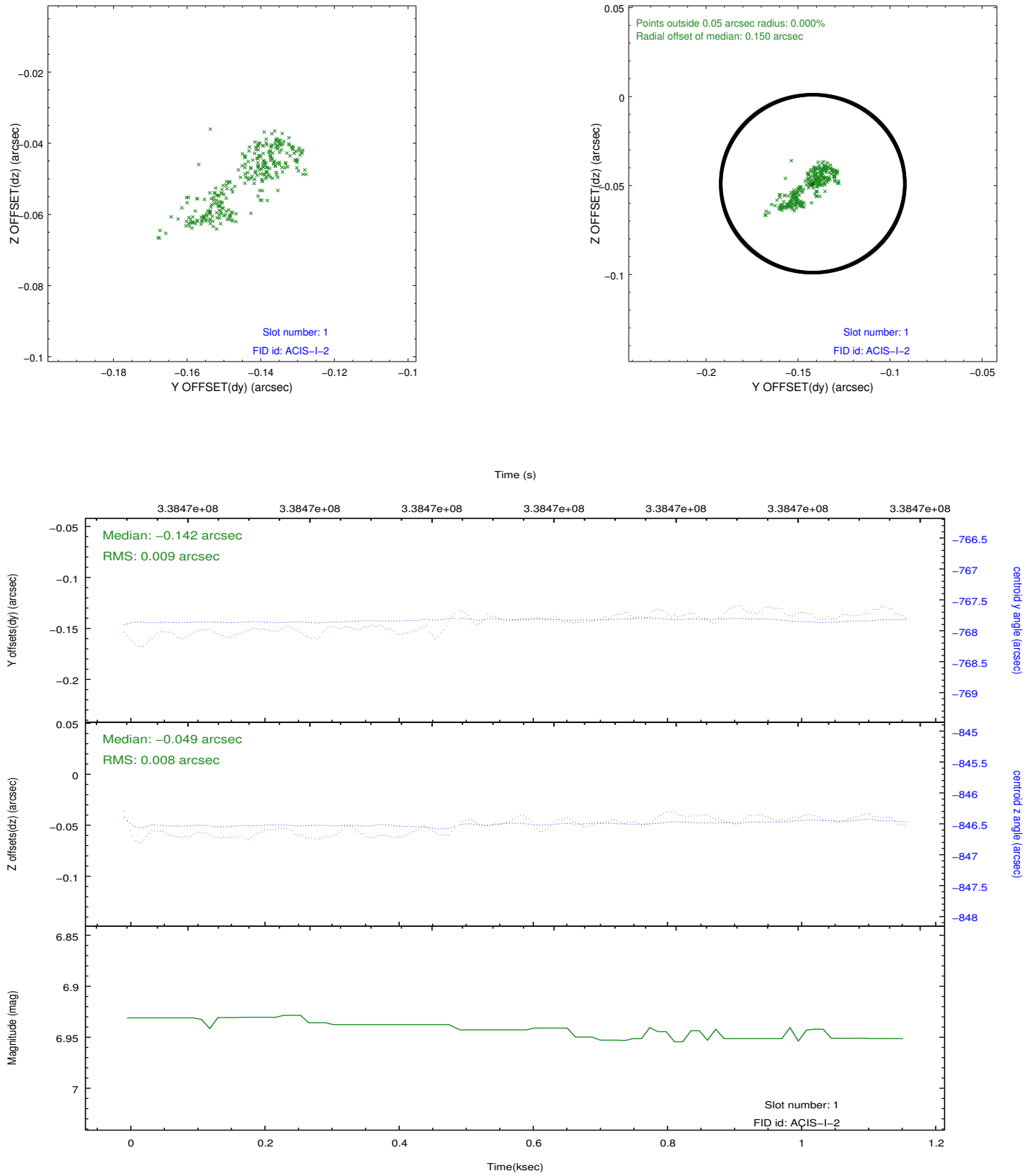


## 2.5 FID Slots

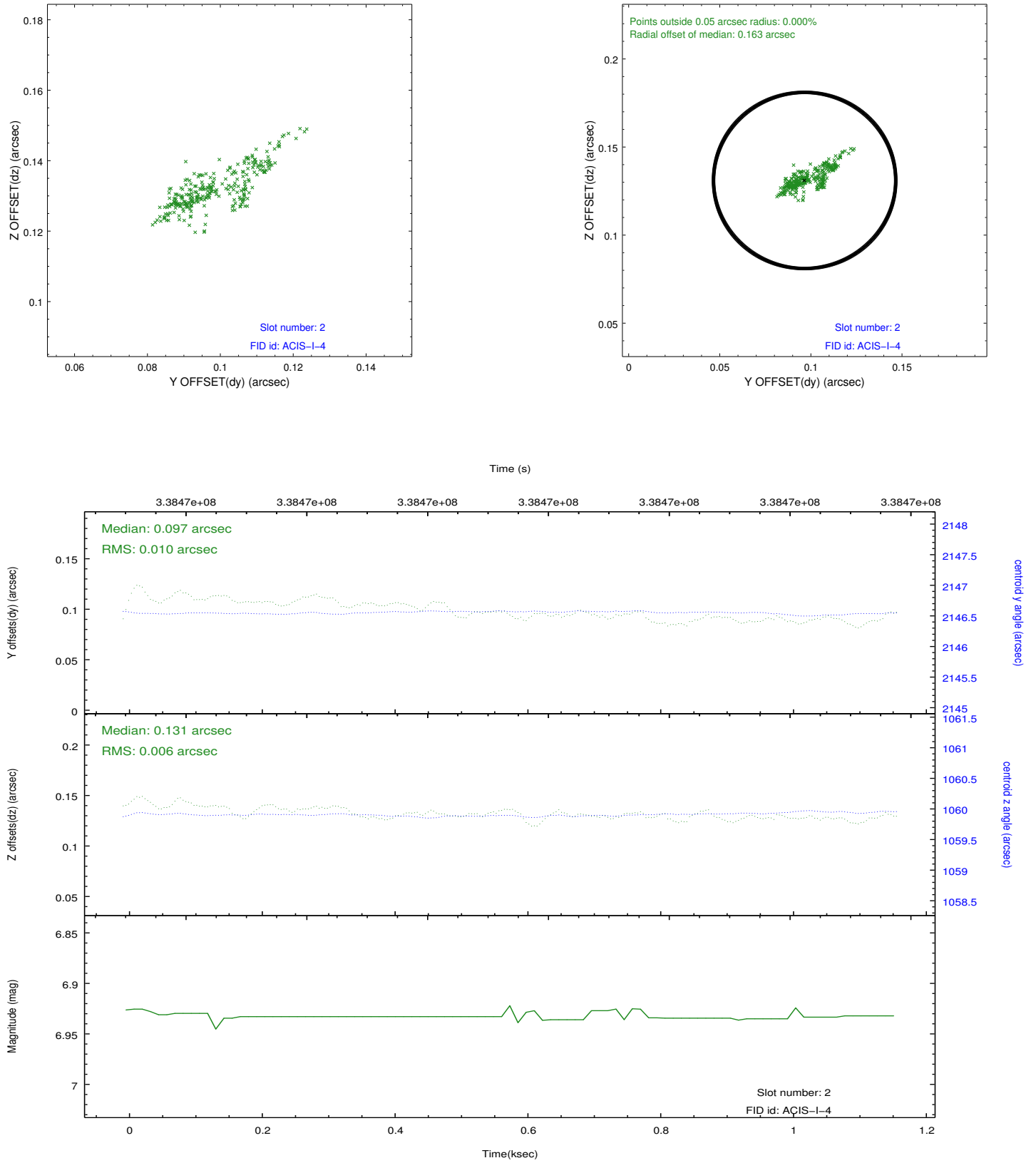
### 2.5.1 Slot 0



## 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)	2012.05.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1563

### A.2 Comments