

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10711 - L2 Version 2  
Chandra X-Ray Center

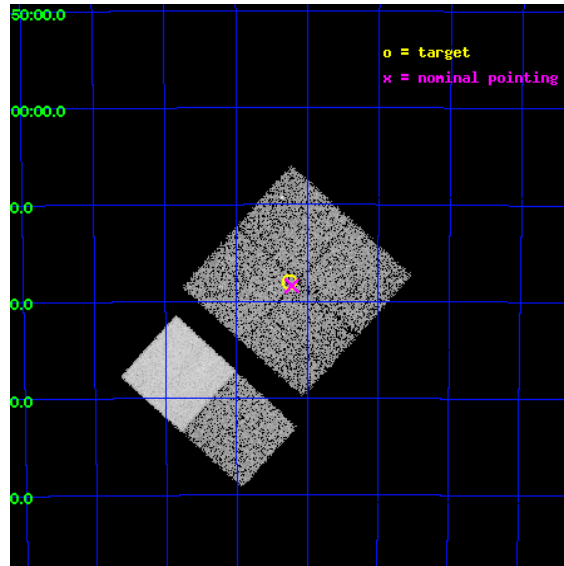
L2 Processing Date : Jun 10 2012

## 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

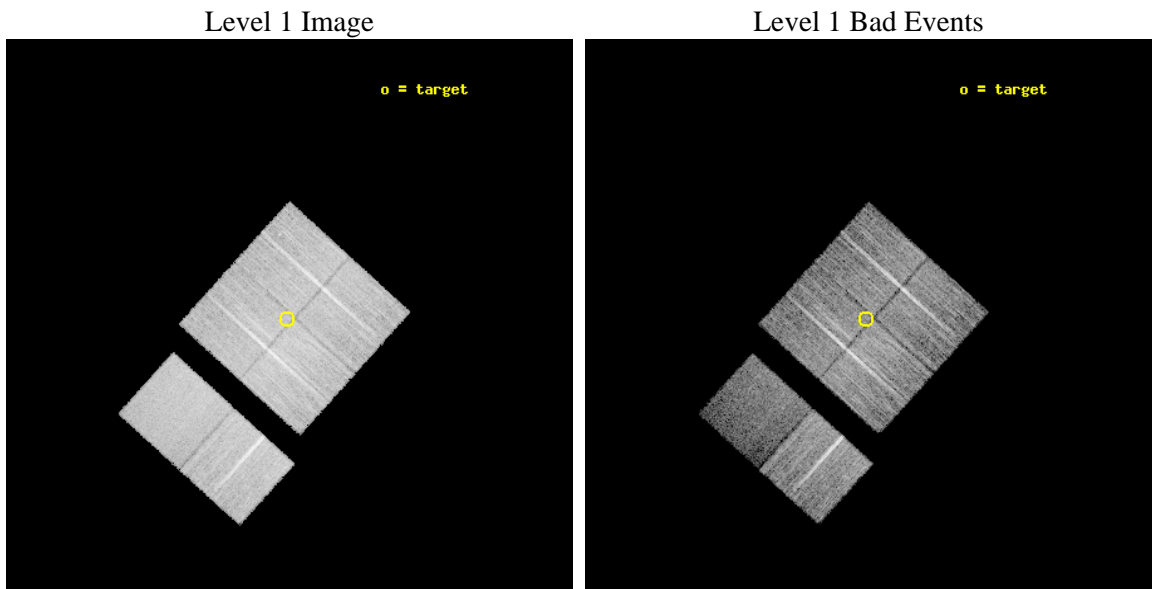
seq_num	501167	Sequence number
obs_id	10711	Observation id
title	Snap-shot survey of compact, radio-bright SNRs	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	G289.7-0.3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	165.3125	Observer's specified target RA [deg]
dec_targ	-60.3	Observer's specified target Dec [deg]
ra_nom	165.30429752893	Nominal RA [deg]
dec_nom	-60.306932467059	Nominal Dec [deg]
roll_nom	222.20154426397	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10041.599962652	Sum of GTIs [s]
livetime	9914.447177599	Livetime [s]
ontime0	10041.599962652	Sum of GTIs [s]
ontime1	10041.599962652	Sum of GTIs [s]
ontime2	10041.599962652	Sum of GTIs [s]
ontime3	10041.599962652	Sum of GTIs [s]
ontime6	10041.599962652	Sum of GTIs [s]
ontime7	10041.599962652	Sum of GTIs [s]
l2events	75022	Number of level 2 events



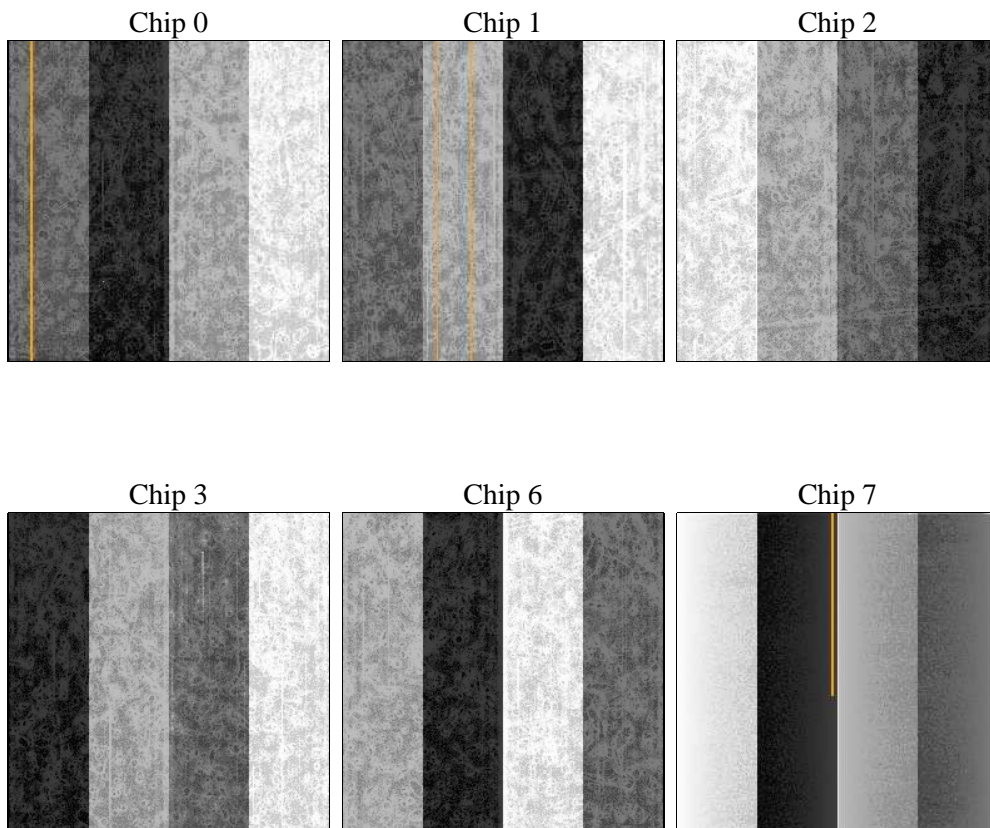
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10041.599962652	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	10041.599962652	Sum of GTIs [s]
date	2012-06-11T00:17:40	Date and time of file creation	ontime1	10041.599962652	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10041.599962652	Sum of GTIs [s]
			ontime3	10041.599962652	Sum of GTIs [s]
			ontime6	10041.599962652	Sum of GTIs [s]
			ontime7	10041.599962652	Sum of GTIs [s]
			l1events	488877	Number of level 1 events

### 2.1.4 Events

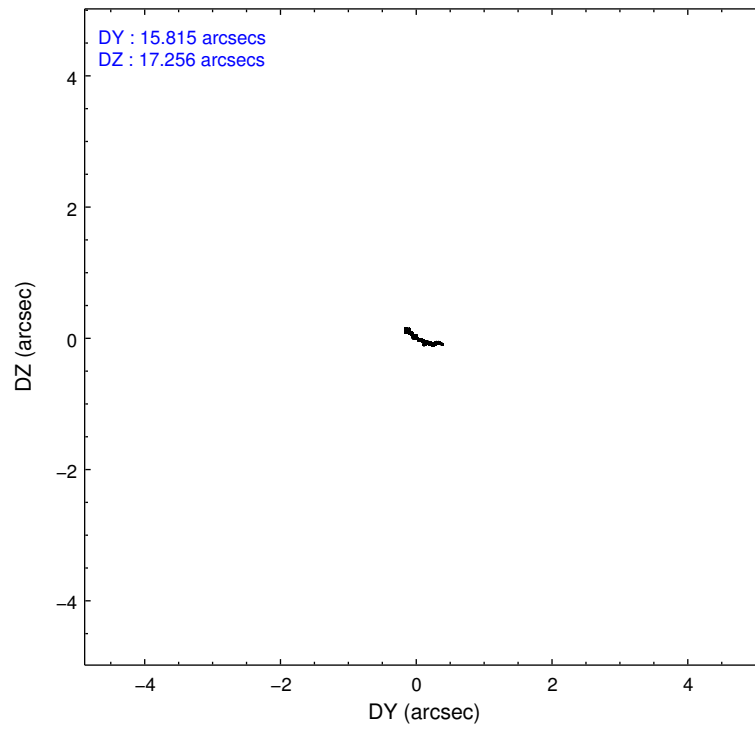
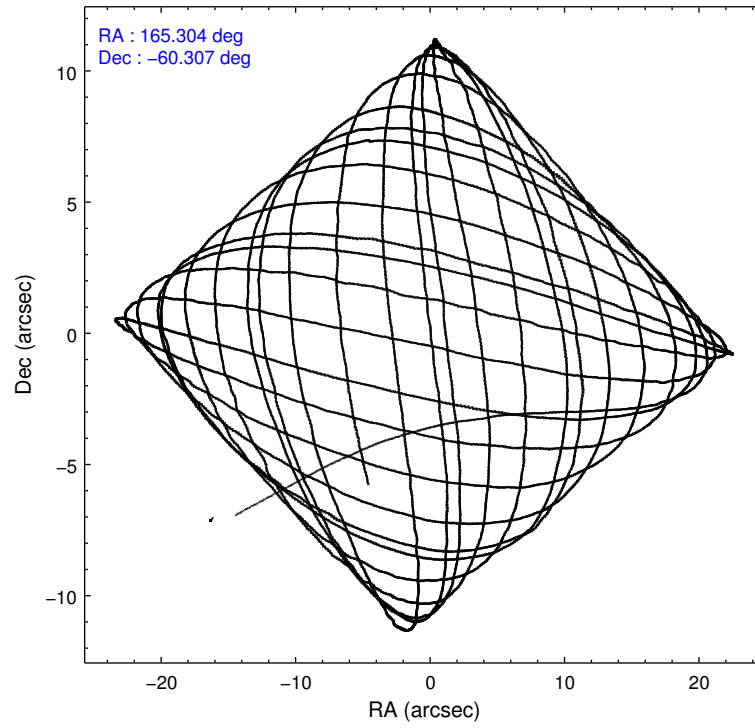
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	76359	77680	91281	77946	85710	79901	grade 0 events	3634	3474	3577	3389	3463	4291
rejected events	67436	68601	82534	69698	76731	40014		4%	4%	3%	4%	4%	5%
rejected %	88%	88%	90%	89%	89%	50%	grade 1 events	38	48	48	51	53	121
								0%	0%	0%	0%	0%	0%
							grade 2 events	2083	2037	2103	1712	1979	8493
								2%	2%	2%	2%	2%	10%
							grade 3 events	886	897	855	815	952	3676
								1%	1%	0%	1%	1%	4%
							grade 4 events	825	988	855	831	887	3673
								1%	1%	0%	1%	1%	4%
							grade 5 events	2511	2763	2287	2916	2982	8603
								3%	3%	2%	3%	3%	10%
							grade 6 events	1501	1689	1361	1506	1704	19778
								1%	2%	1%	1%	1%	24%
							grade 7 events	64881	65784	80195	66726	73690	31266
								84%	84%	87%	85%	85%	39%

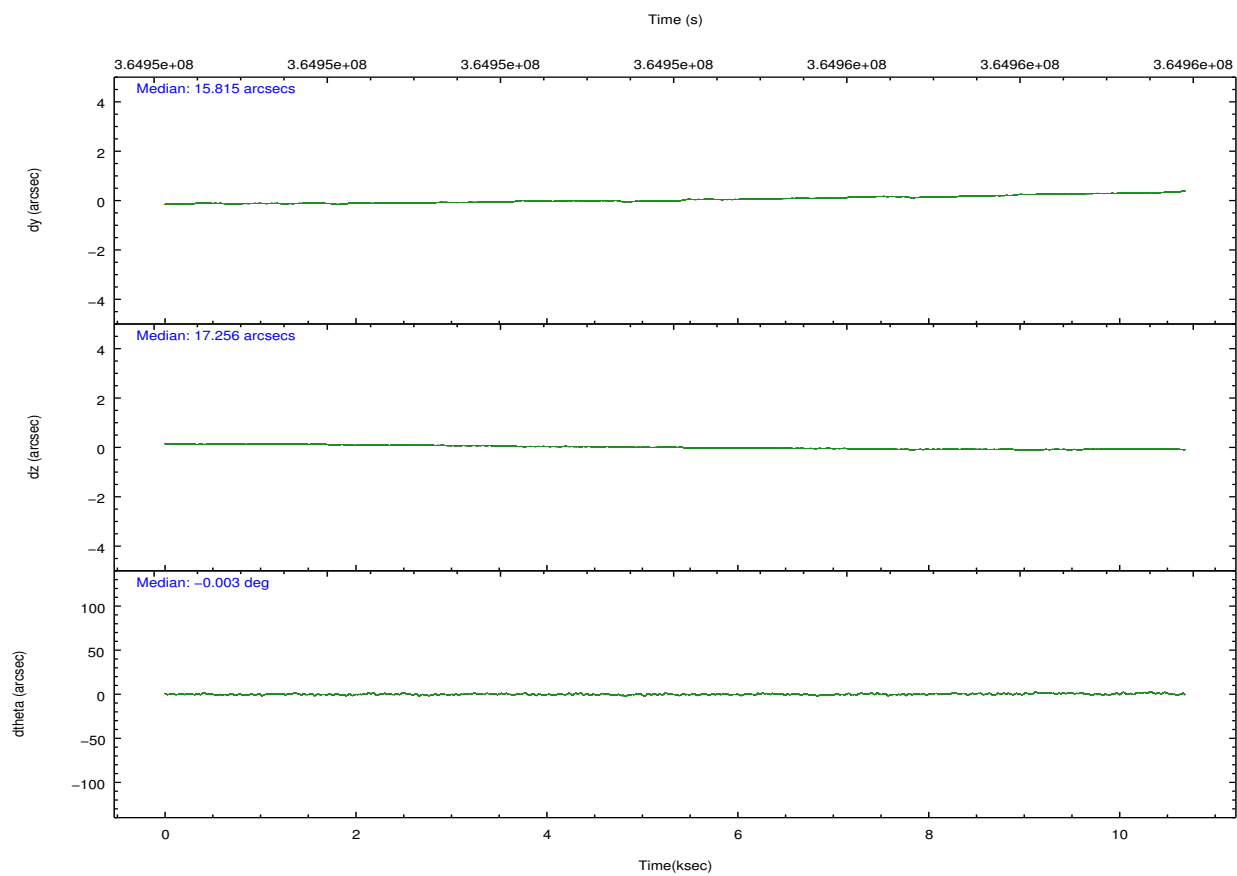
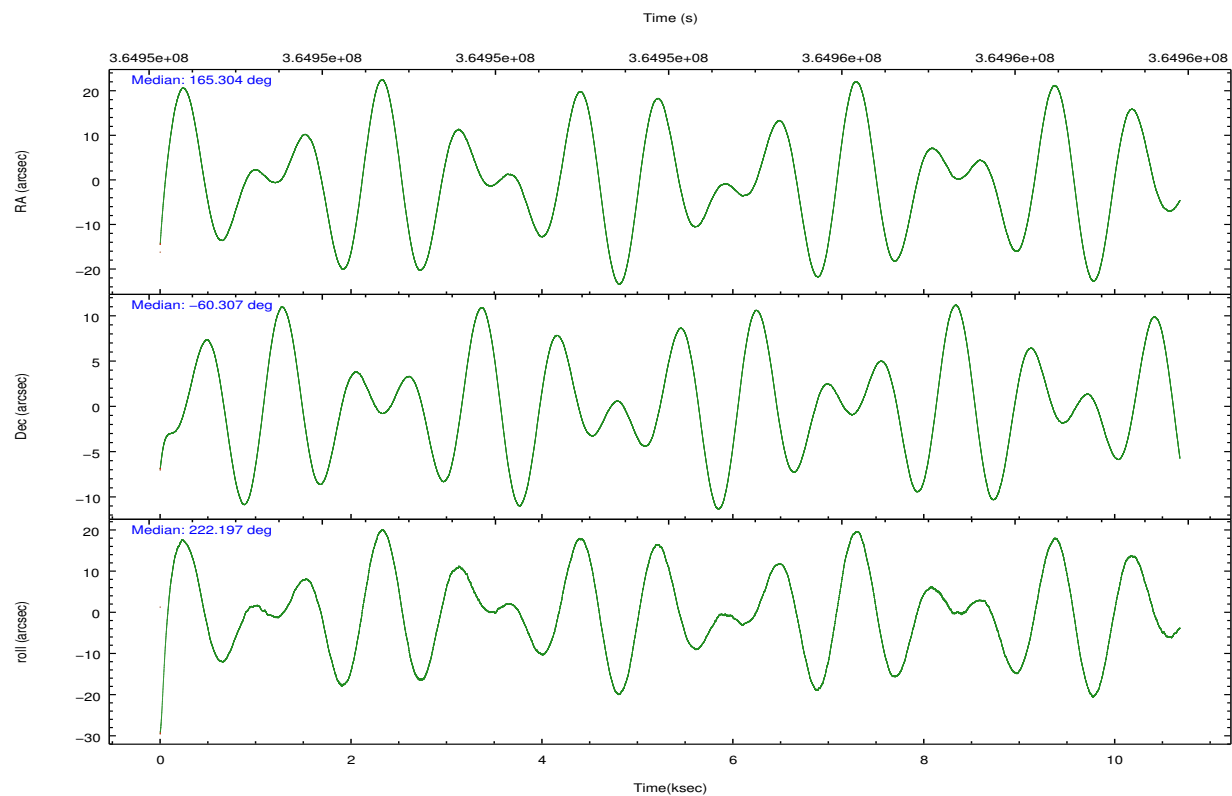


## 2.2 Compared Parameters

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	165.320961	165.3042975289283	CCD I2 on	Y	Y
[deg] Pointing Dec	-60.280742	-60.30693246705869	CCD I3 on	Y	Y
[deg] Pointing Roll	222.007344	222.2015442639728	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)	364949356.184000	364948098.44547	CCD S5 on	N	N
Observation start date	2009-07-25T22:48:10	2009-07-25T22:28:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	364959356.184000	364960228.80858	On-chip summing requested	N	N
Observation end date	2009-07-26T01:34:50	2009-07-26T01:50:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



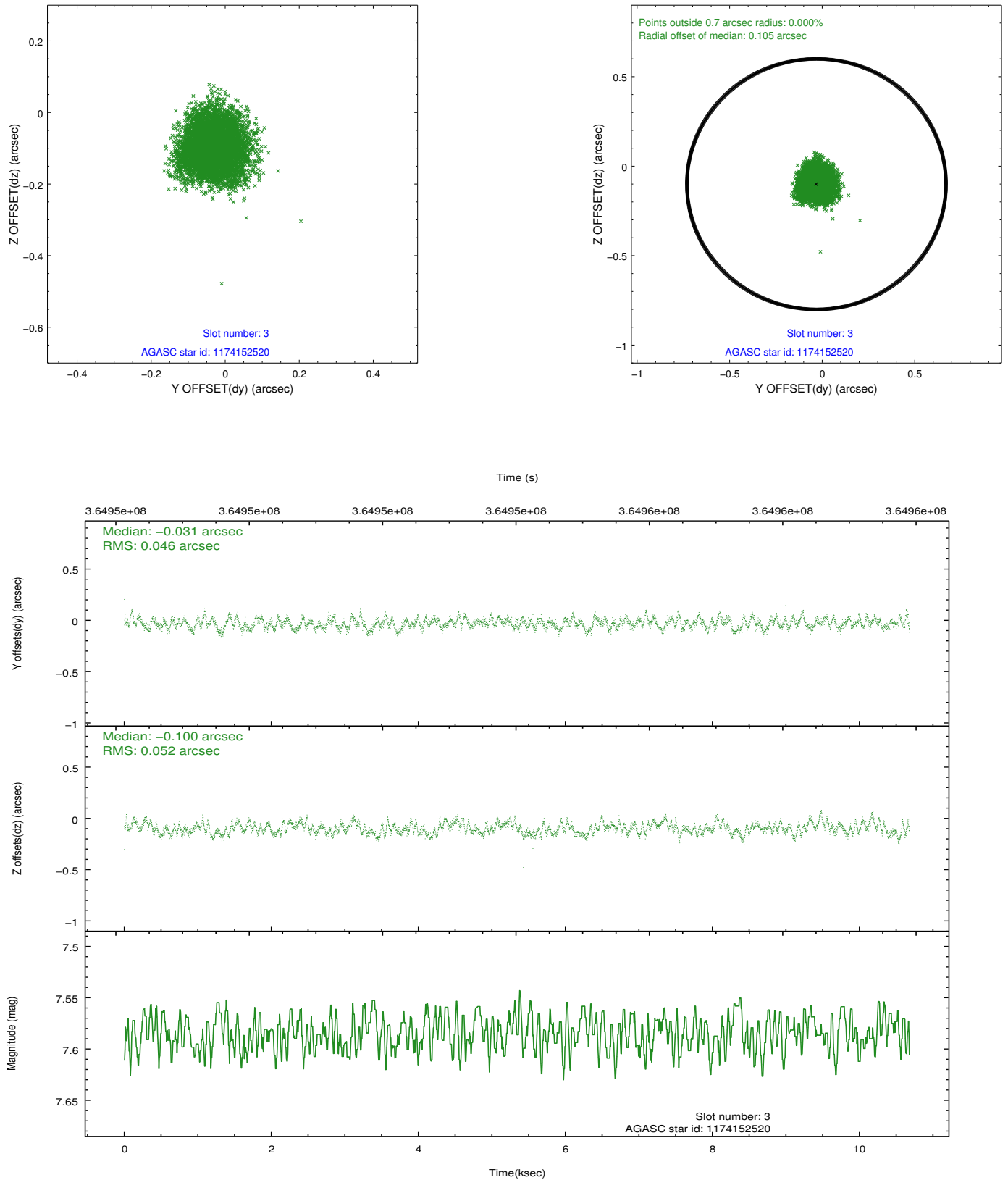


### Slot Statistics

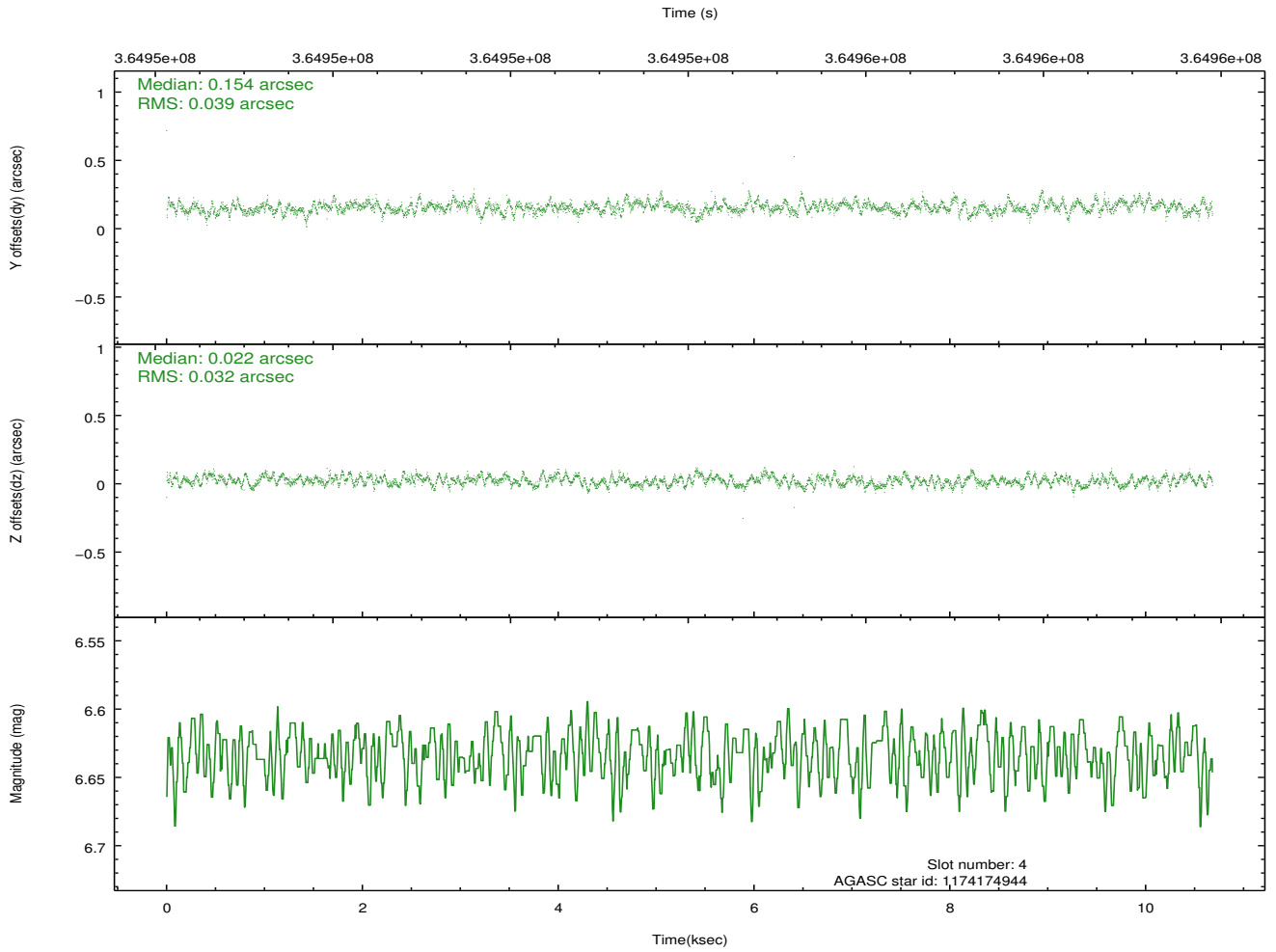
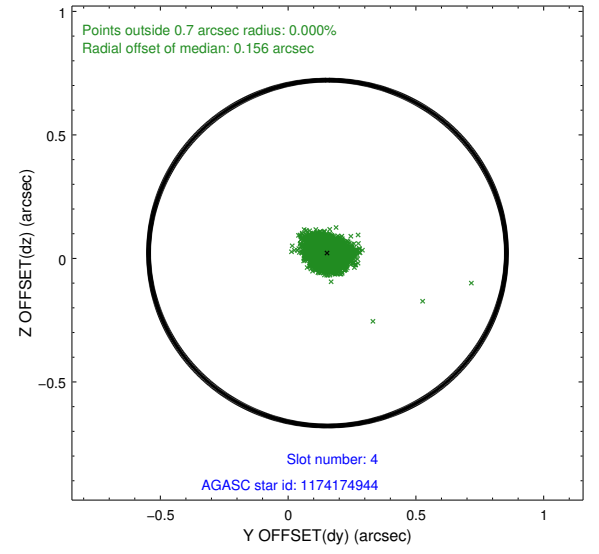
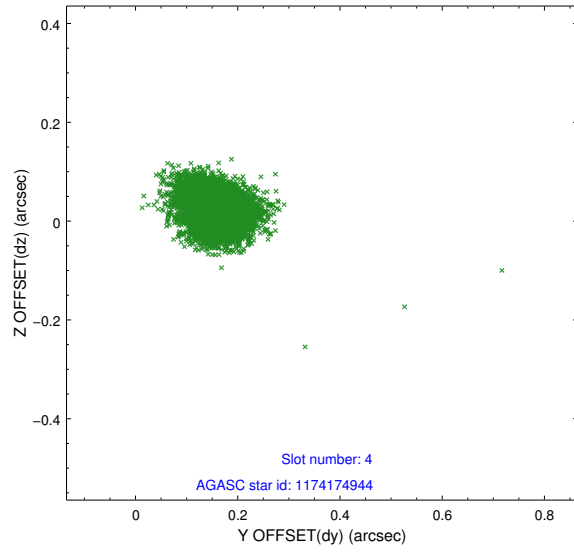
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	2606	-0.105	-0.058	0.008	0.013	0.000000	0.000000	923.48	-840.97
1	FID	ACIS-I-4	6.93	2605	0.033	0.130	0.009	0.016	0.000000	0.000000	2143.90	1058.80
2	FID	ACIS-I-6	7.01	2606	-0.025	-0.007	0.009	0.017	0.000000	0.000000	390.05	1701.37
3	GUIDE	1174152520	7.59	5212	-0.031	-0.100	0.075	0.117	165.769535	-60.824851	727.85	1984.44
4	GUIDE	1174174944	6.63	5212	0.154	0.022	0.052	0.086	164.048245	-60.453559	2110.39	-1032.79
5	GUIDE	1130769792	8.08	5210	-0.030	0.157	0.061	0.098	166.107050	-59.868361	-2042.75	-146.20
6	GUIDE	1174147776	8.00	5212	0.004	-0.058	0.058	0.097	164.022700	-60.390440	1995.30	-1234.78
7	GUIDE	1174178160	7.98	5208	-0.096	-0.019	0.089	0.136	167.045219	-60.246389	-2344.22	1999.16

## 2.4 Star Slots

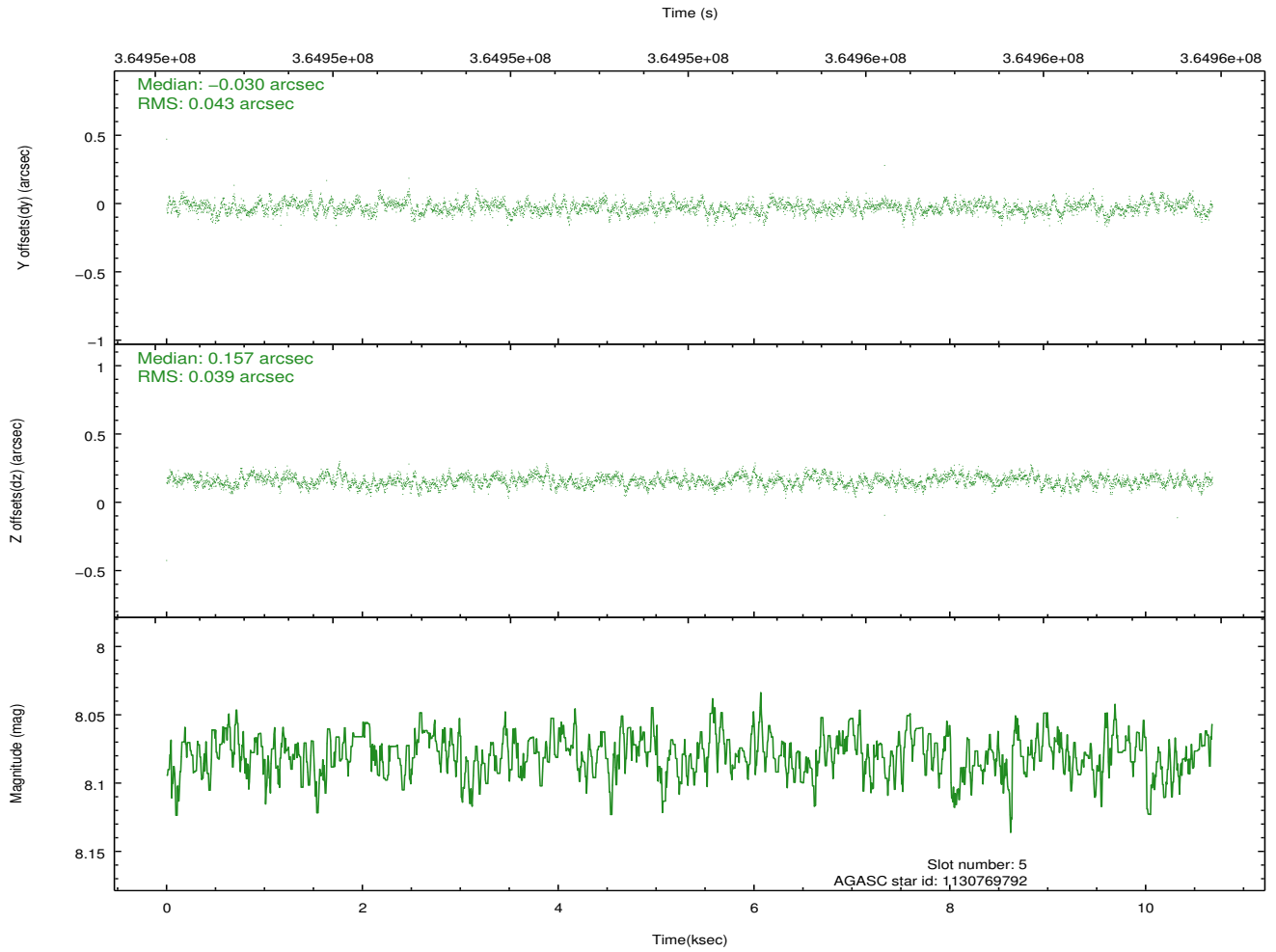
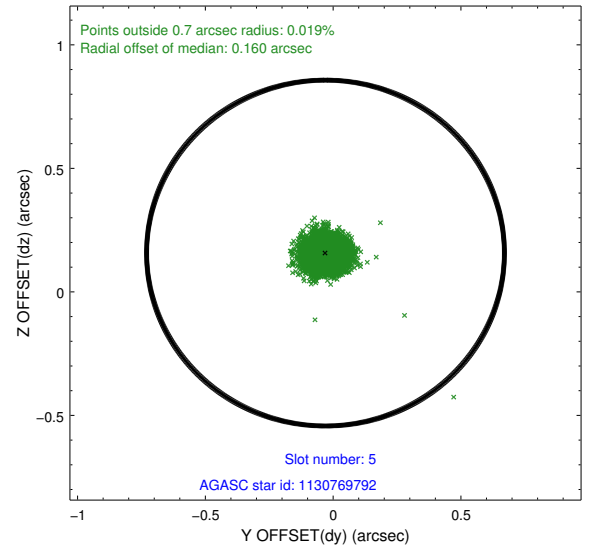
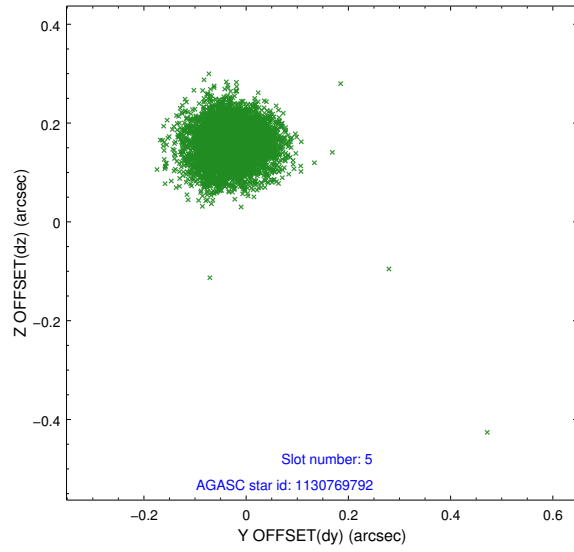
### 2.4.1 Slot 3



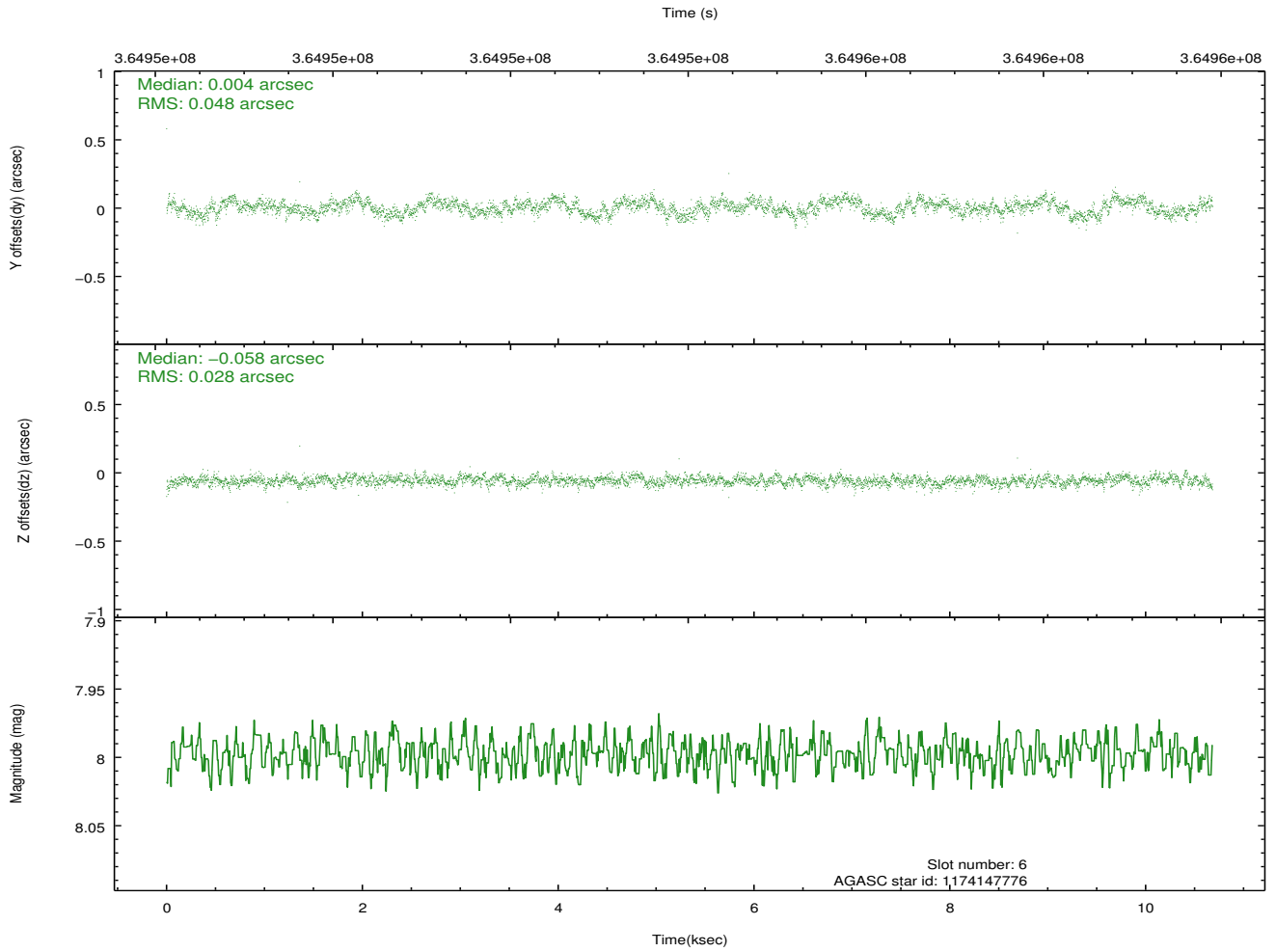
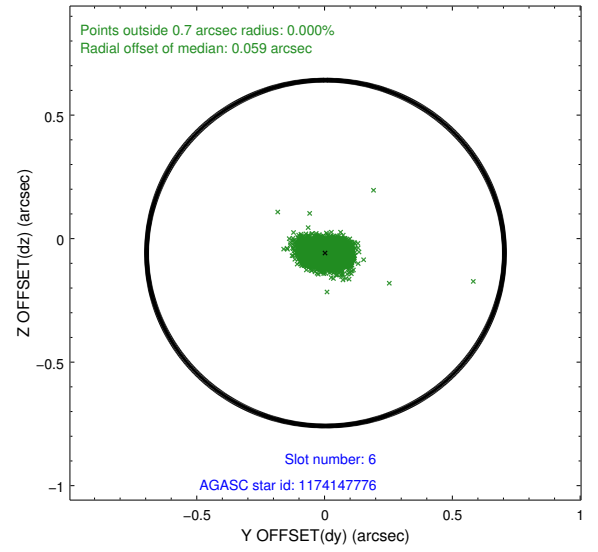
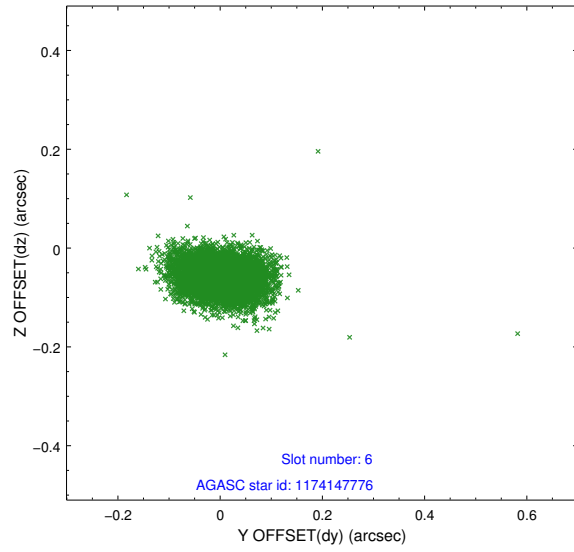
## 2.4.2 Slot 4



### 2.4.3 Slot 5

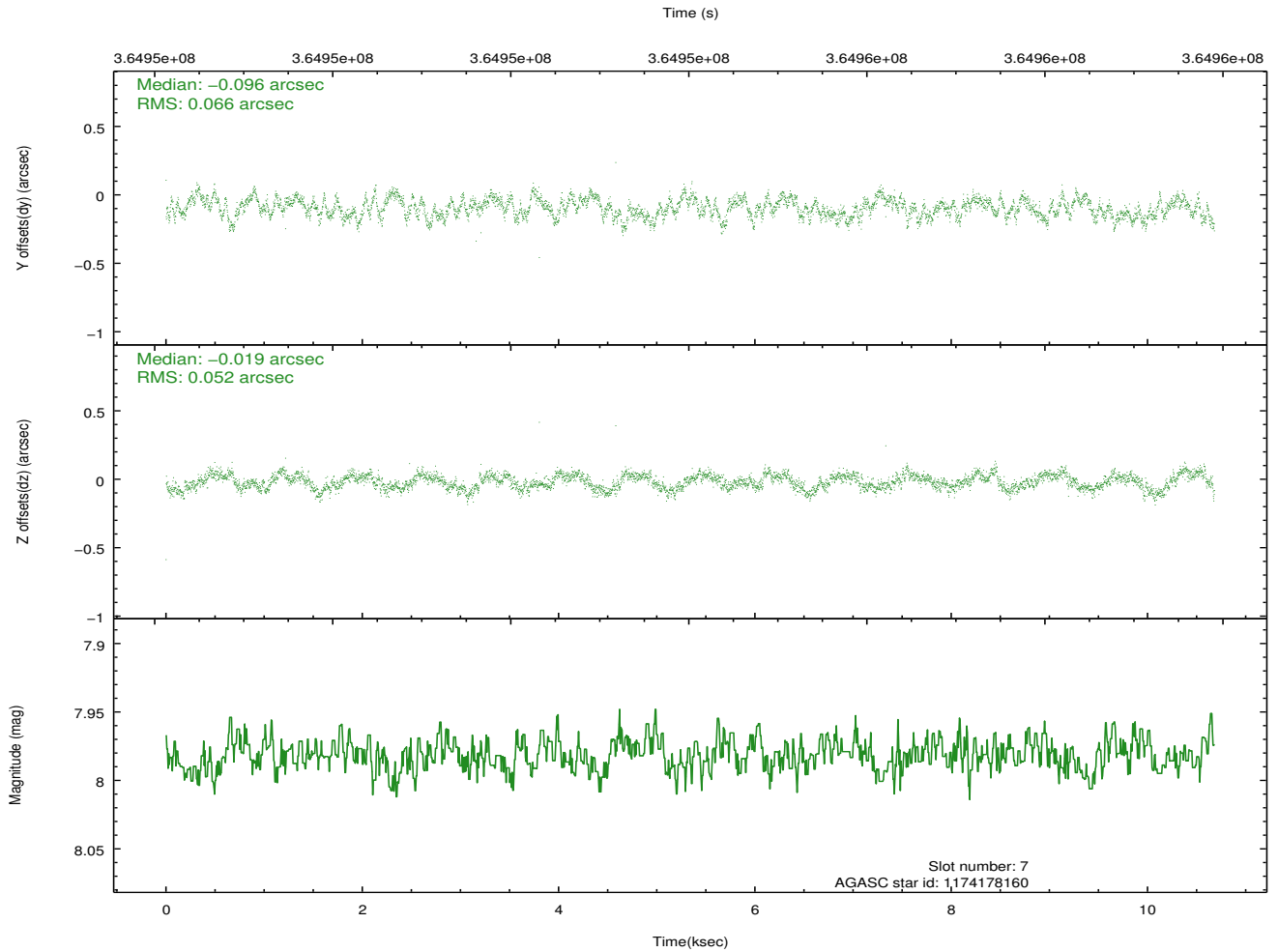
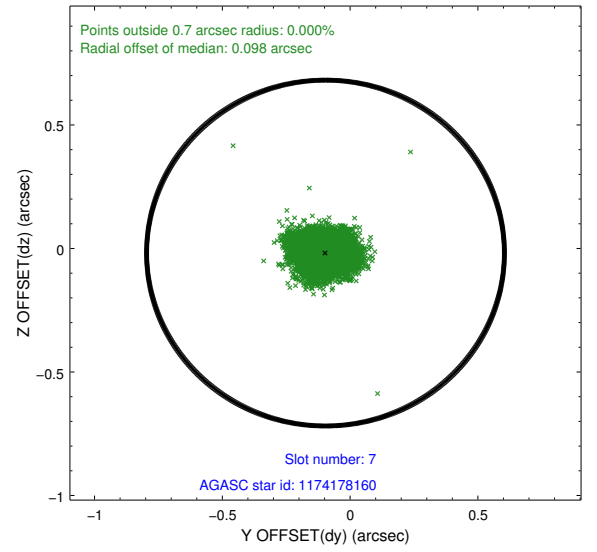
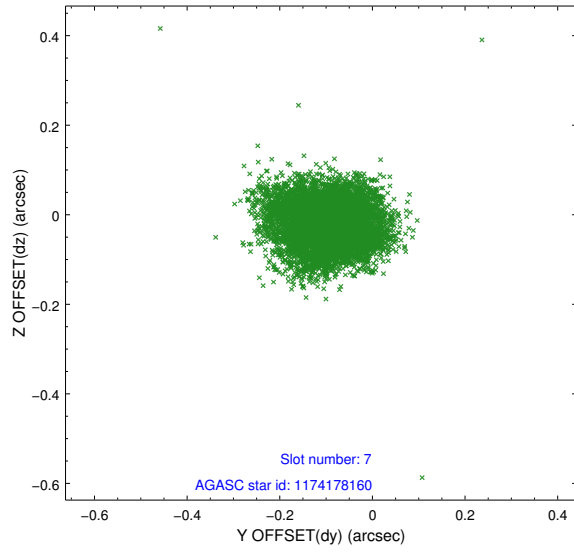


## 2.4.4 Slot 6



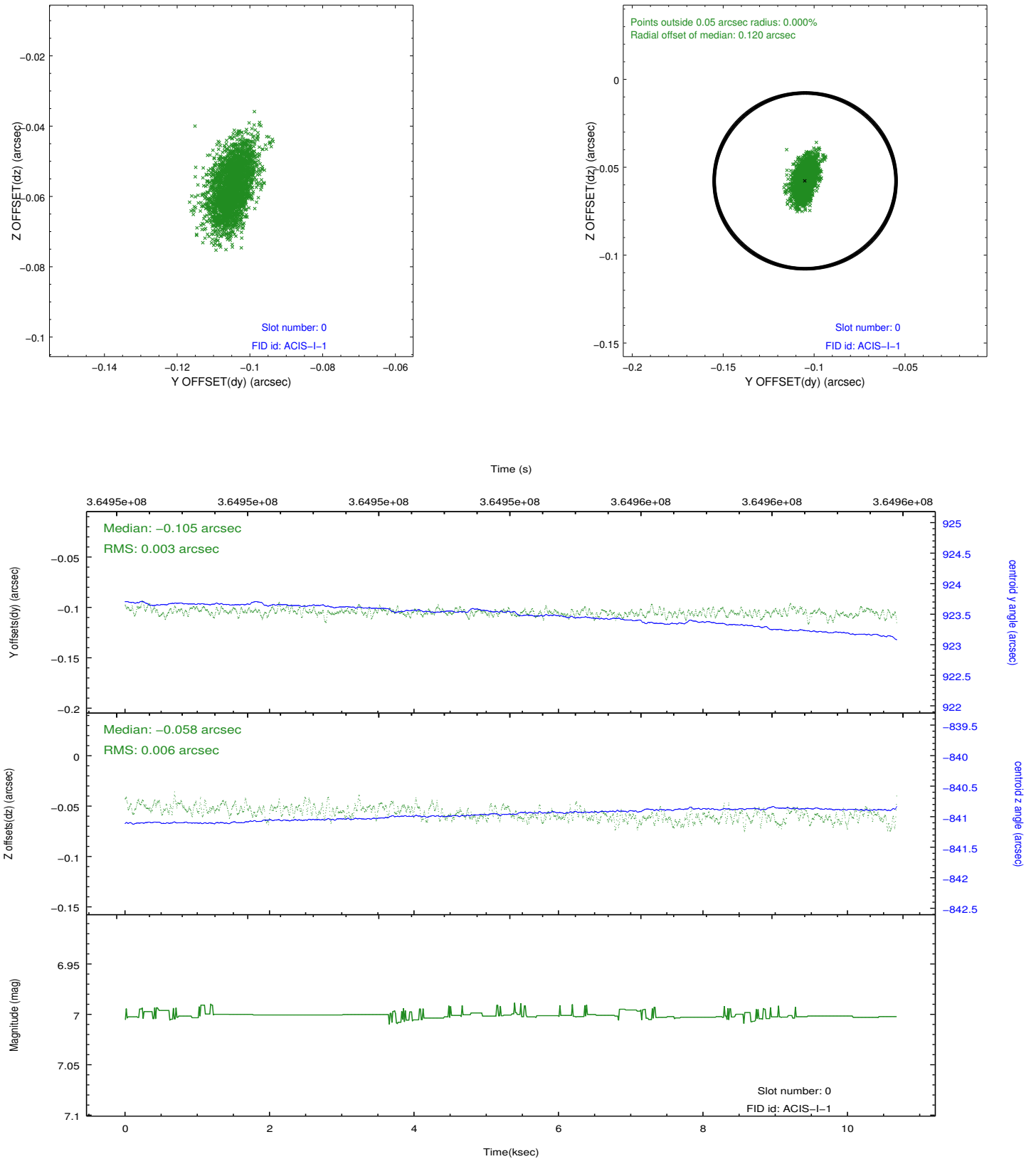


## 2.4.5 Slot 7

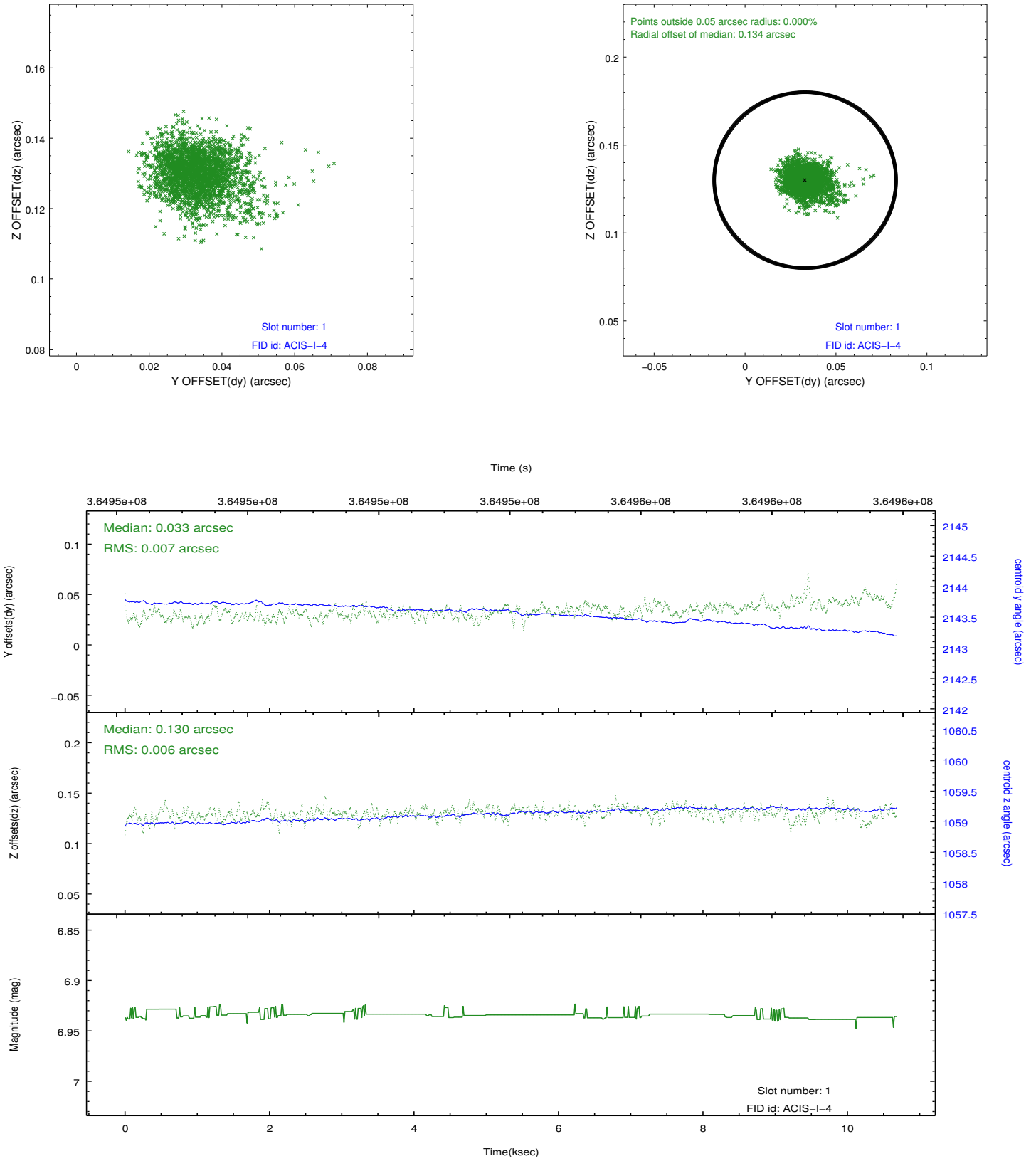


## 2.5 FID Slots

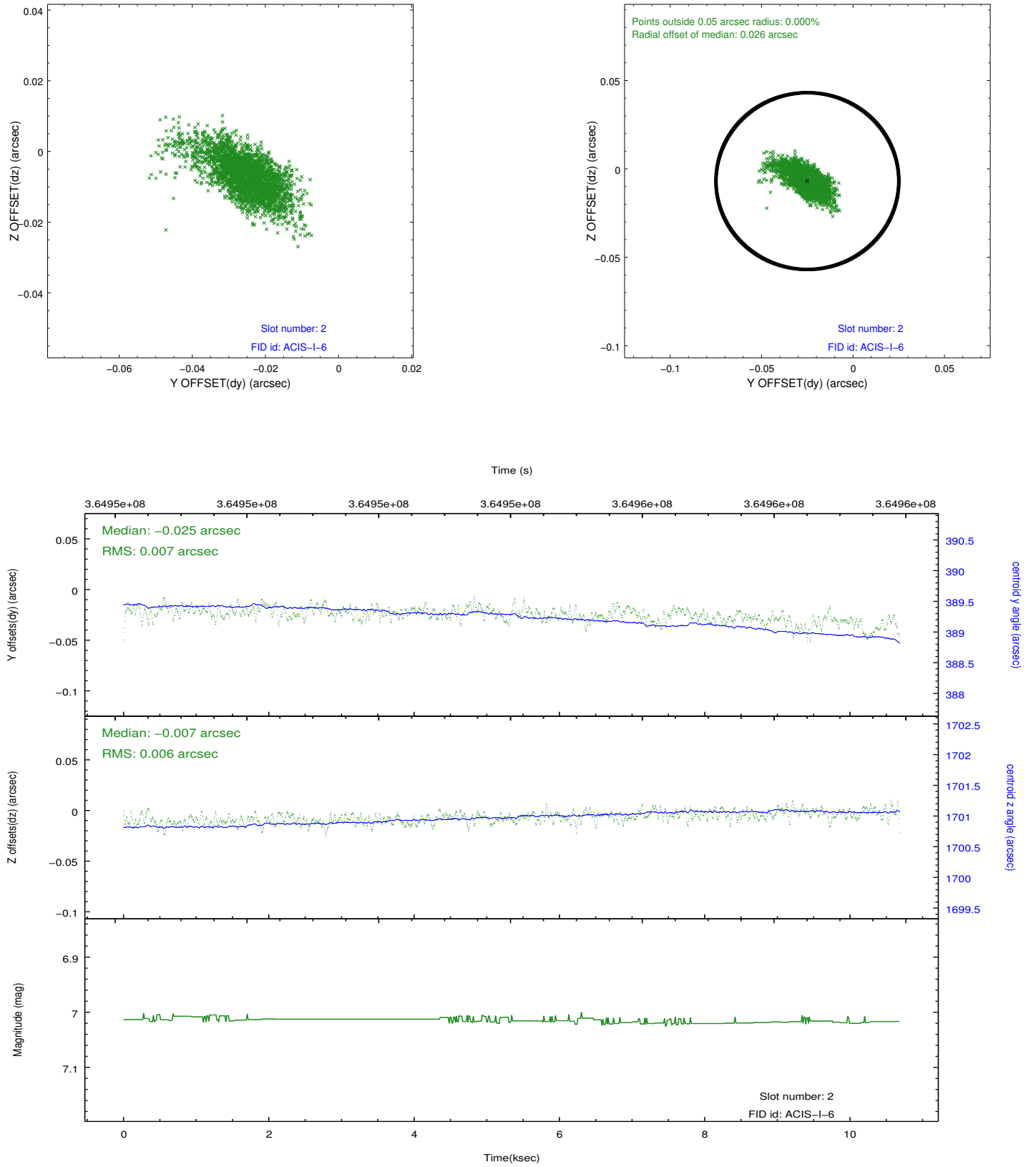
### 2.5.1 Slot 0



## 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)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.041599962652

### **A.2 Comments**