

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 668 - L2 Version 5  
Chandra X-Ray Center

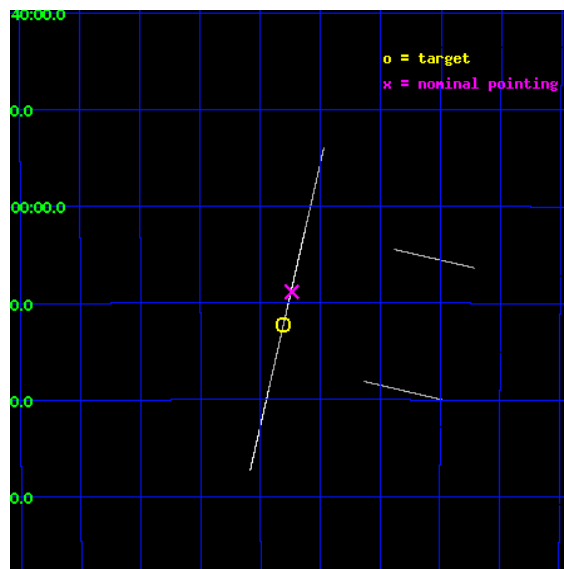
L2 Processing Date : Aug 30 2012

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# 1 Front

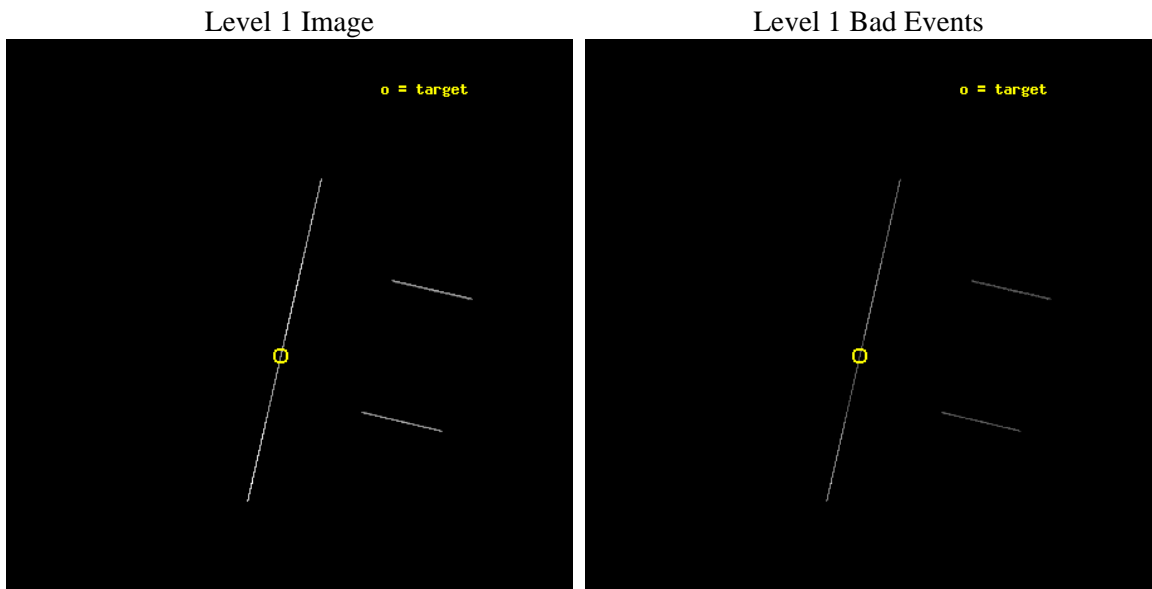
seq_num	400035	Sequence number
obs_id	668	Observation id
title	THE FAINTEST 'FIELD' LOW-MASS X-RAY BINARIES	Proposal title
observer	PROF MICHIEL VAN DER KLIS	Principal investigator
object	1746-331	Source name
ra_targ	267.452083	Observer's specified target RA [deg]
dec_targ	-33.204278	Observer's specified target Dec [deg]
ra_nom	267.43443231967	Nominal RA [deg]
dec_nom	-33.1477333236	Nominal Dec [deg]
roll_nom	282.98362535509	Nominal Roll [deg]
revision	5	Processing version of data
ontime	4064.5	Sum of GTIs [s]
livetime	4048.623046875	Livetime [s]
ontime2	4064.5	Sum of GTIs [s]
ontime3	4064.5	Sum of GTIs [s]
ontime5	4064.5	Sum of GTIs [s]
ontime6	4064.5	Sum of GTIs [s]
ontime7	4064.5	Sum of GTIs [s]
ontime8	4064.5	Sum of GTIs [s]
l2events	84062	Number of level 2 events



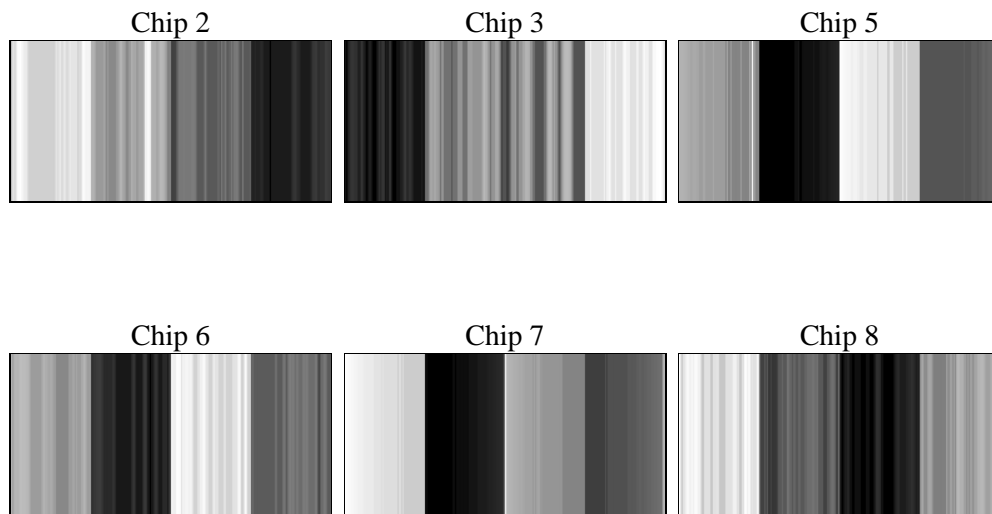
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3389.967000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4064.5	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	4064.5	Sum of GTIs [s]
date	2012-08-30T18:31:30	Date and time of file creation	ontime3	4064.5	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	4064.5	Sum of GTIs [s]
			ontime6	4064.5	Sum of GTIs [s]
			ontime7	4064.5	Sum of GTIs [s]
			ontime8	4064.5	Sum of GTIs [s]
			l1events	114690	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	5488	5638	46692	5866	40025	10981
rejected events	1184	1222	5425	1257	5159	2263
rejected %	21%	21%	11%	21%	12%	20%

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	633	611	9326	607	5249	1903
	11%	10%	19%	10%	13%	17%
grade 1 events	21	12	43	11	38	32
	0%	0%	0%	0%	0%	0%
grade 2 events	1923	2071	14011	2239	8558	3096
	35%	36%	30%	38%	21%	28%
grade 3 events	657	687	1320	589	3041	1282
	11%	12%	2%	10%	7%	11%
grade 4 events	646	602	1300	581	2790	1221
	11%	10%	2%	9%	6%	11%
grade 5 events	784	759	2383	879	2713	1257
	14%	13%	5%	14%	6%	11%
grade 6 events	824	896	18309	960	17636	2190
	15%	15%	39%	16%	44%	19%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

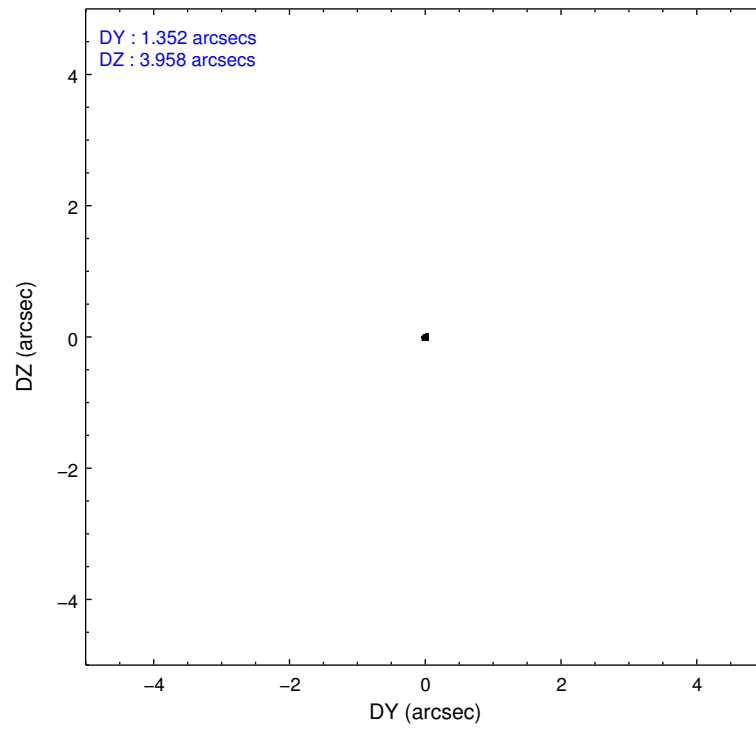
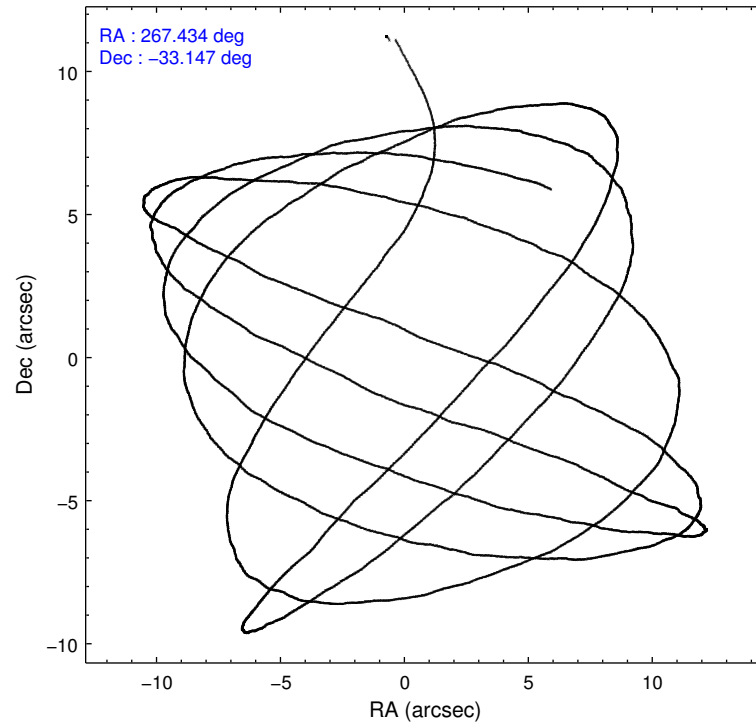


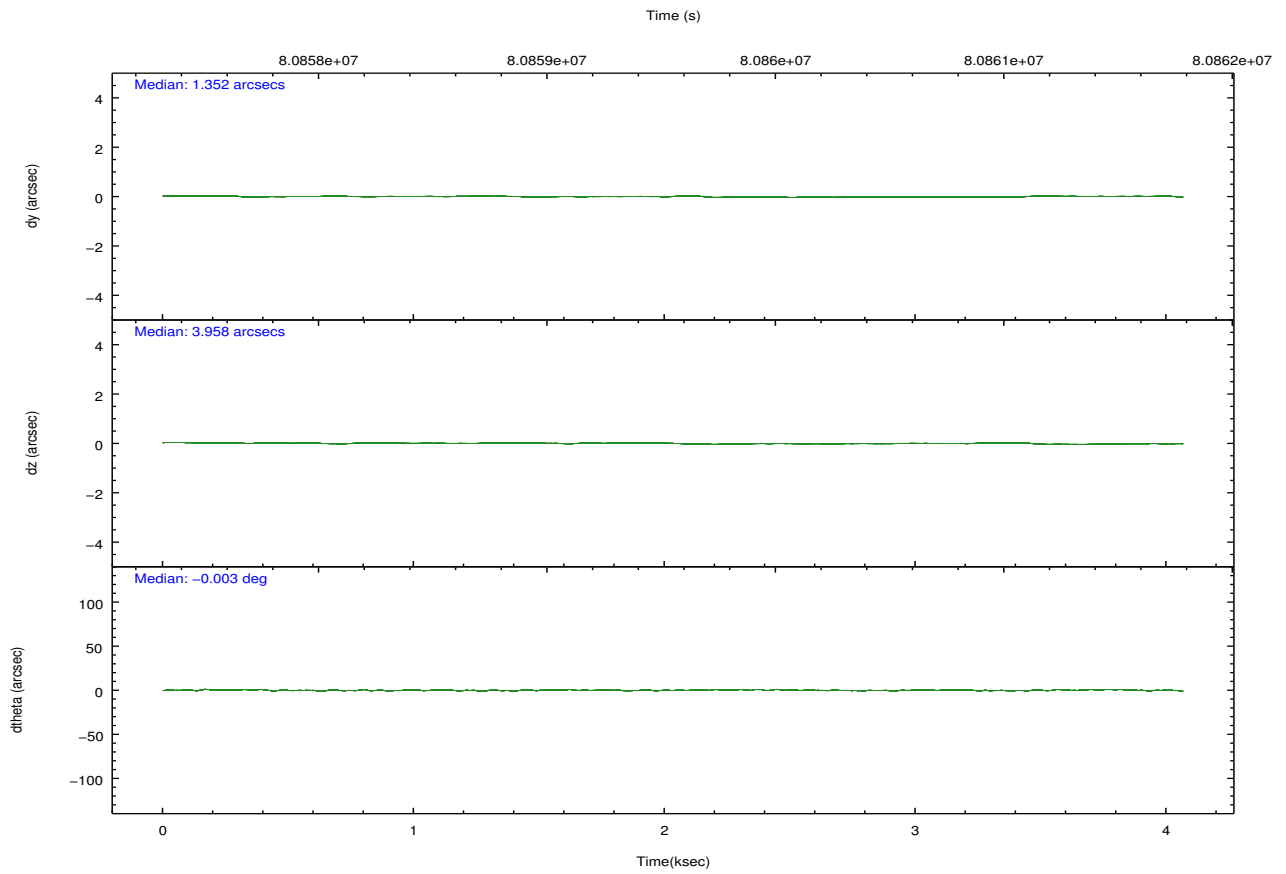
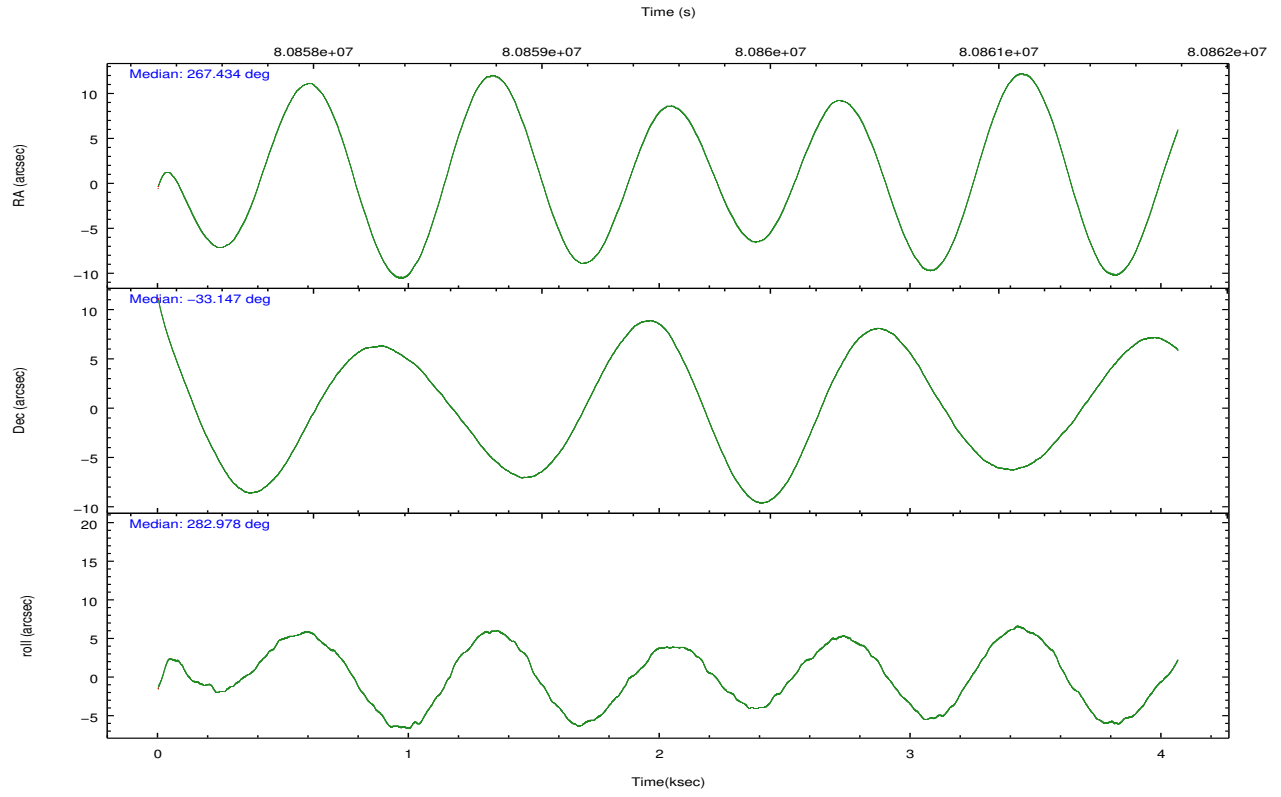
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	CC33_FAINT	CC33_FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	267.412082	267.4344323196688
[deg] Pointing Dec	-33.127800	-33.14773332359985
[deg] Pointing Roll	282.814773	282.9836253550867
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-182.132523	-182.1370004450064
[mm] SIM translation stage offset	-8	-7.995522138001405
[s] Observation start time (MET)	80858204.184000	80857001.67842001
Observation start date	2000-07-24T20:35:40	2000-07-24T20:16:41
[s] Observation end time (MET)	80861593.184000	80861903.22860201
Observation end date	2000-07-24T21:32:09	2000-07-24T21:38:23
Read mode	CONTINUOUS	CONTINUOUS

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0

## 2.3 Aspect



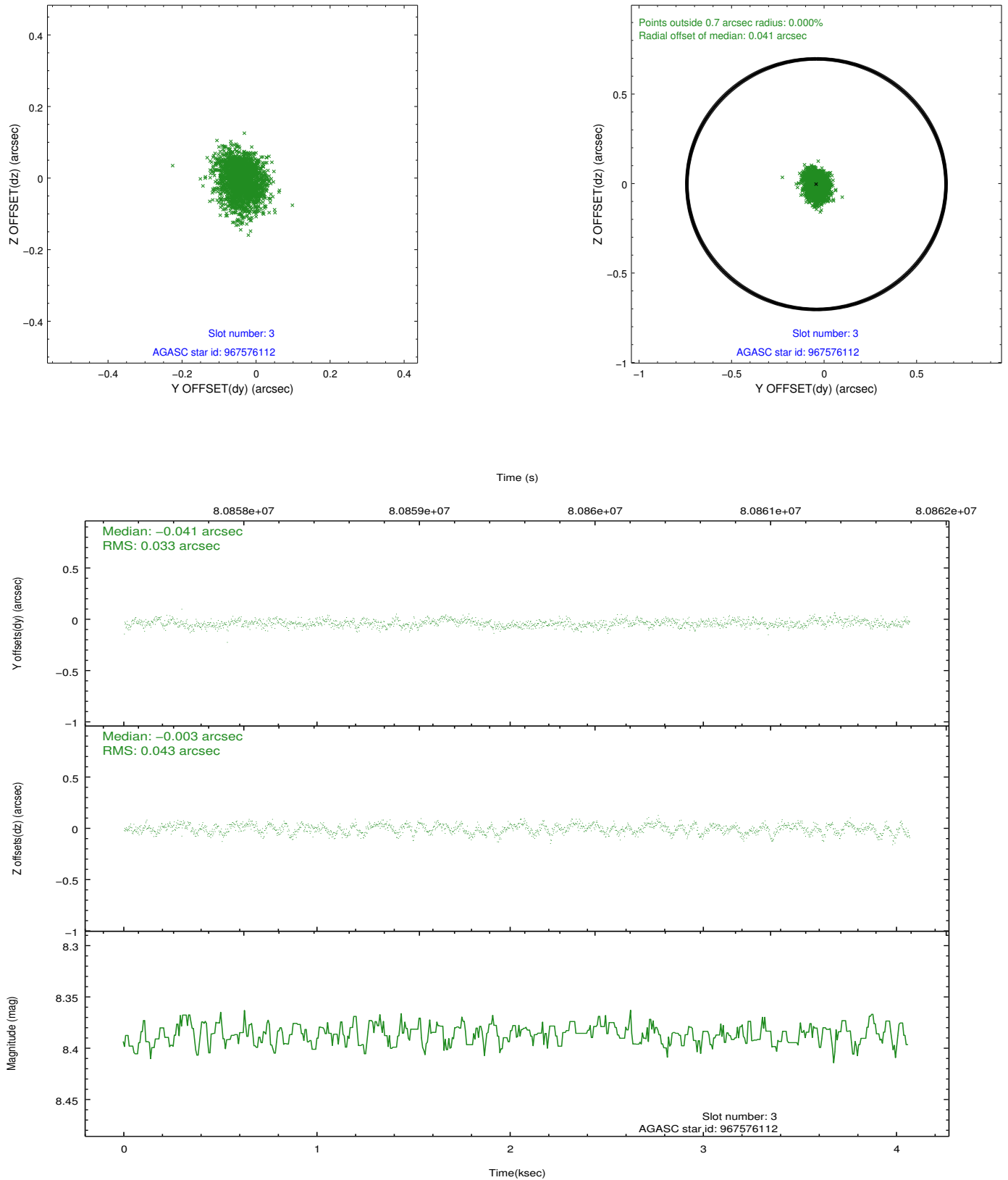


### Slot Statistics

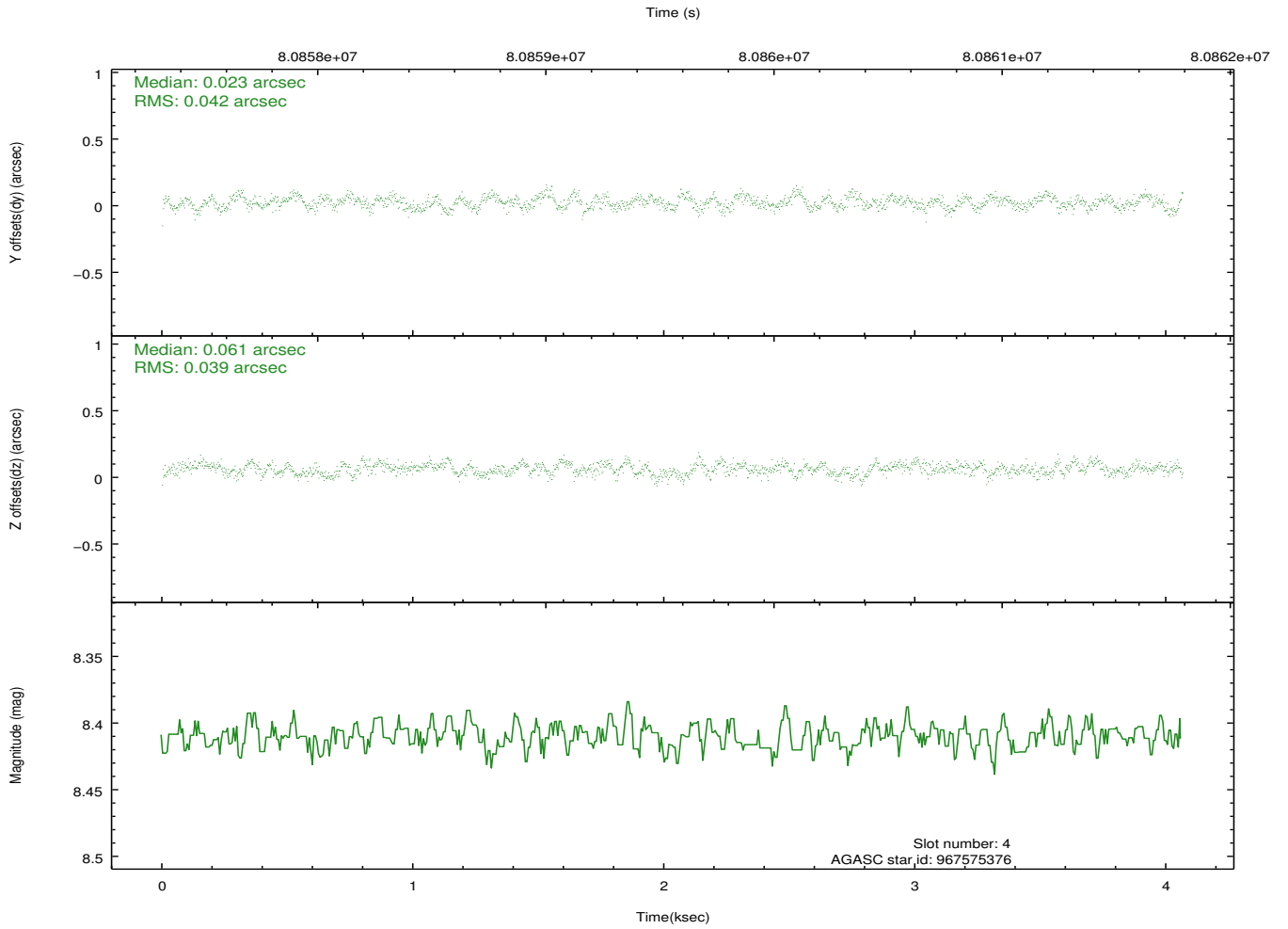
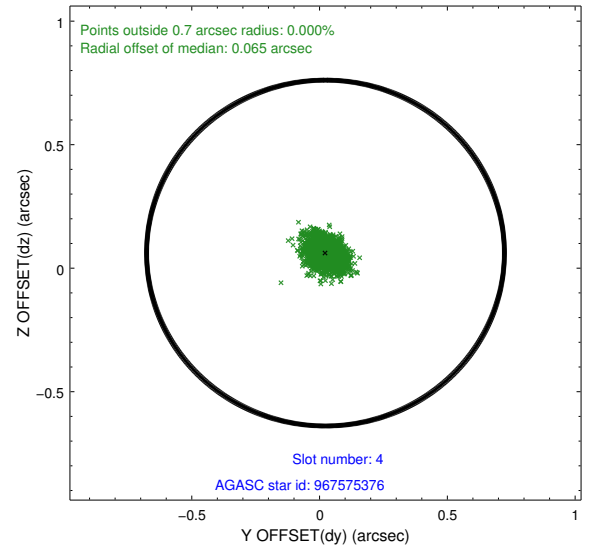
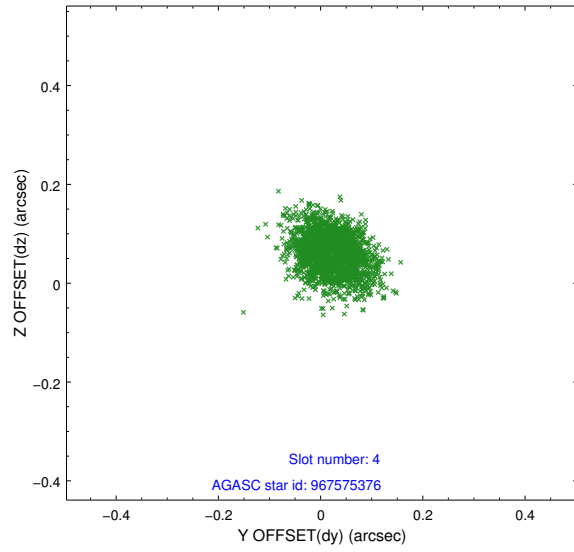
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	991	-0.051	-0.105	0.007	0.010	0.000000	0.000000	-753.47	-1889.84
1	FID	ACIS-S-4	7.18	991	0.065	0.053	0.005	0.010	0.000000	0.000000	2159.28	16.97
2	FID	ACIS-S-5	7.22	992	-0.044	0.060	0.006	0.010	0.000000	0.000000	-1804.28	12.49
3	GUIDE	967576112	8.39	1984	-0.041	-0.003	0.058	0.095	267.864430	-33.324491	996.45	1168.88
4	GUIDE	967575376	8.41	1984	0.023	0.061	0.060	0.098	267.763436	-32.989502	-246.54	1144.86
5	GUIDE	967574992	9.13	1984	0.040	0.018	0.073	0.119	268.024577	-32.877886	-460.11	2004.27
6	GUIDE	967447616	9.31	1981	-0.016	0.068	0.082	0.136	267.260141	-32.889782	-935.82	-257.23
7	GUIDE	967446720	9.40	1981	-0.013	-0.147	0.100	0.162	266.677037	-32.880650	-1351.73	-1972.02

## 2.4 Star Slots

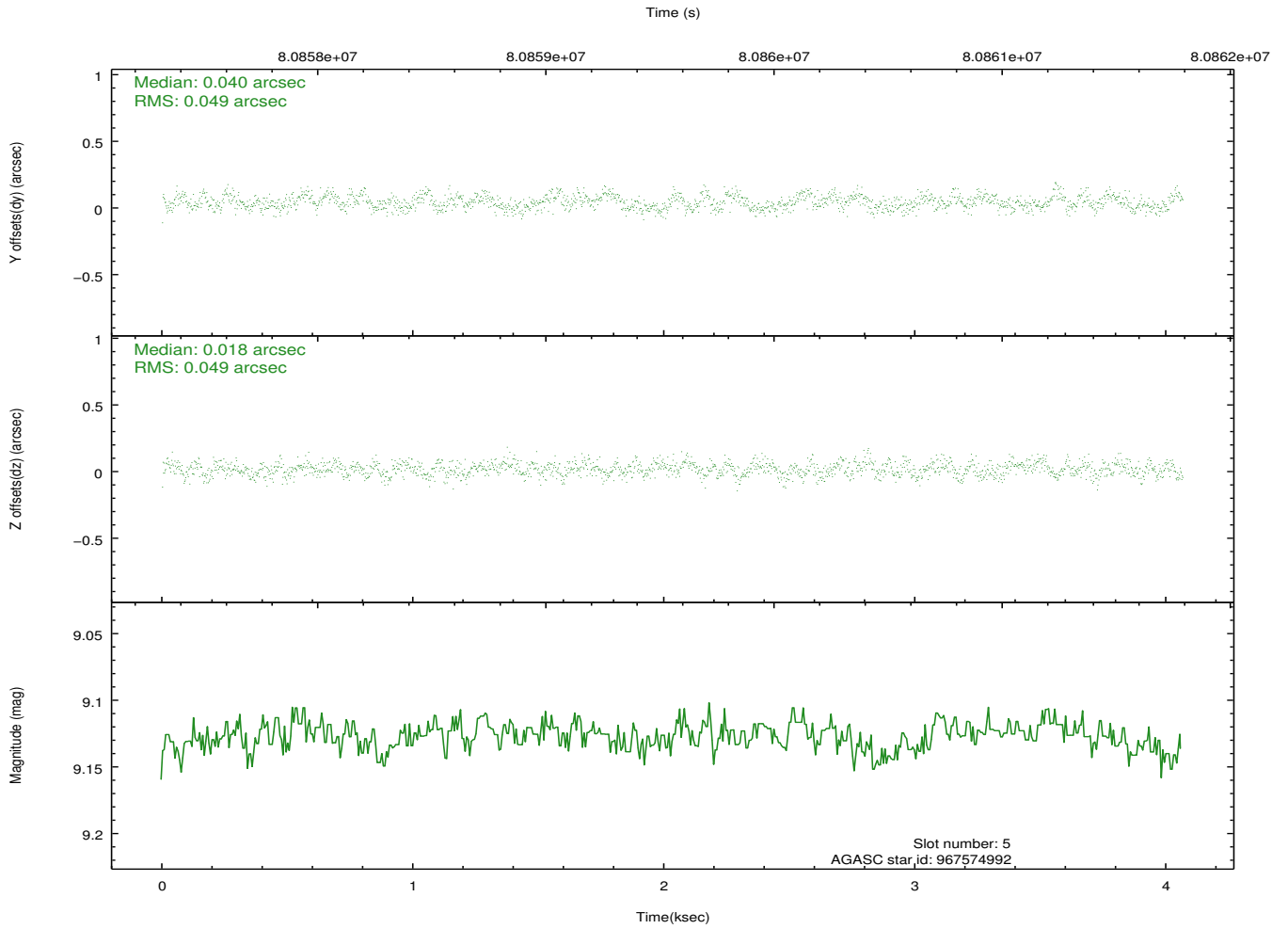
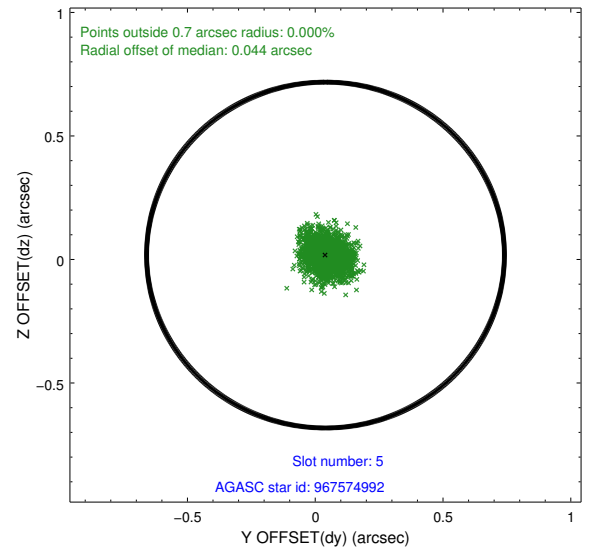
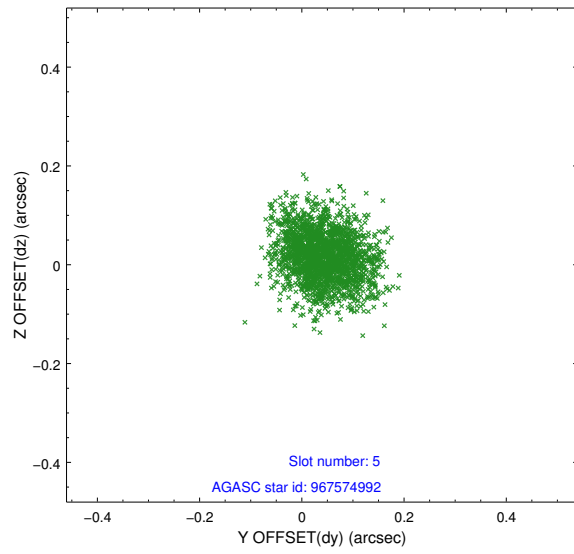
### 2.4.1 Slot 3



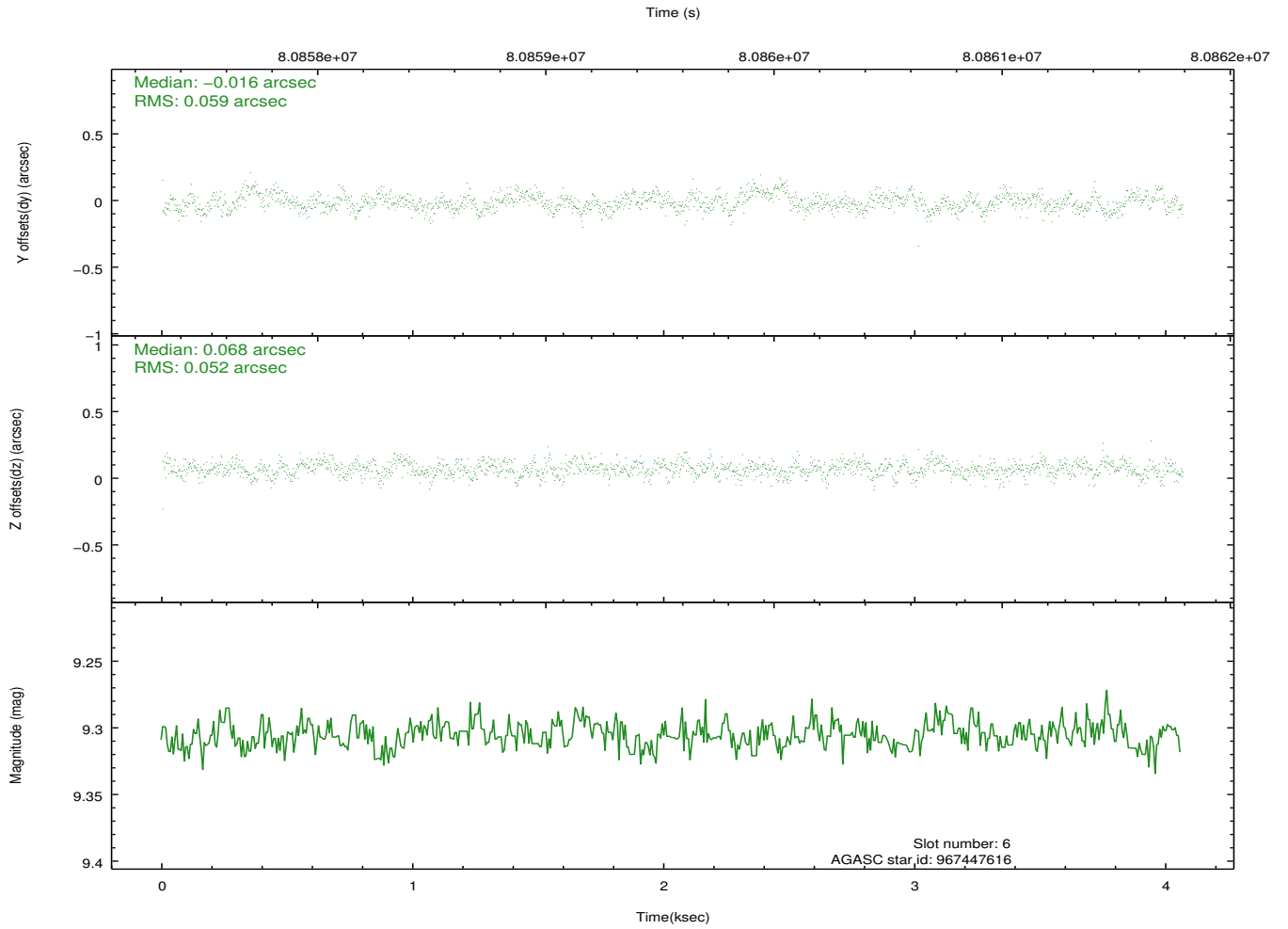
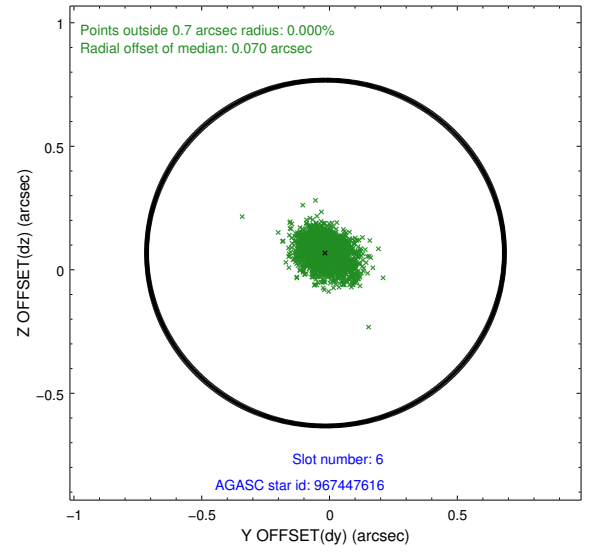
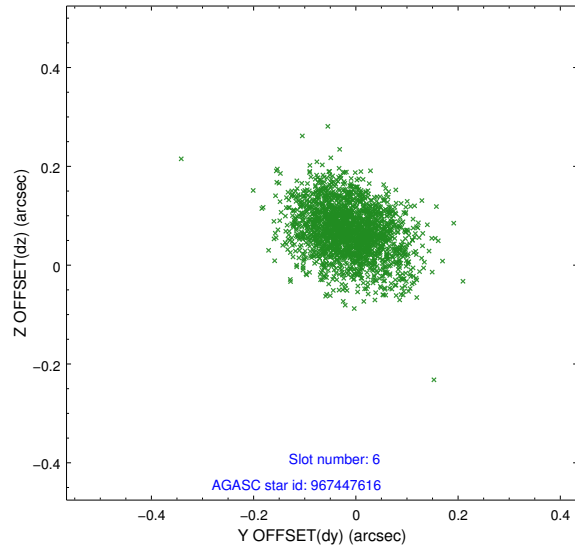
## 2.4.2 Slot 4



### 2.4.3 Slot 5

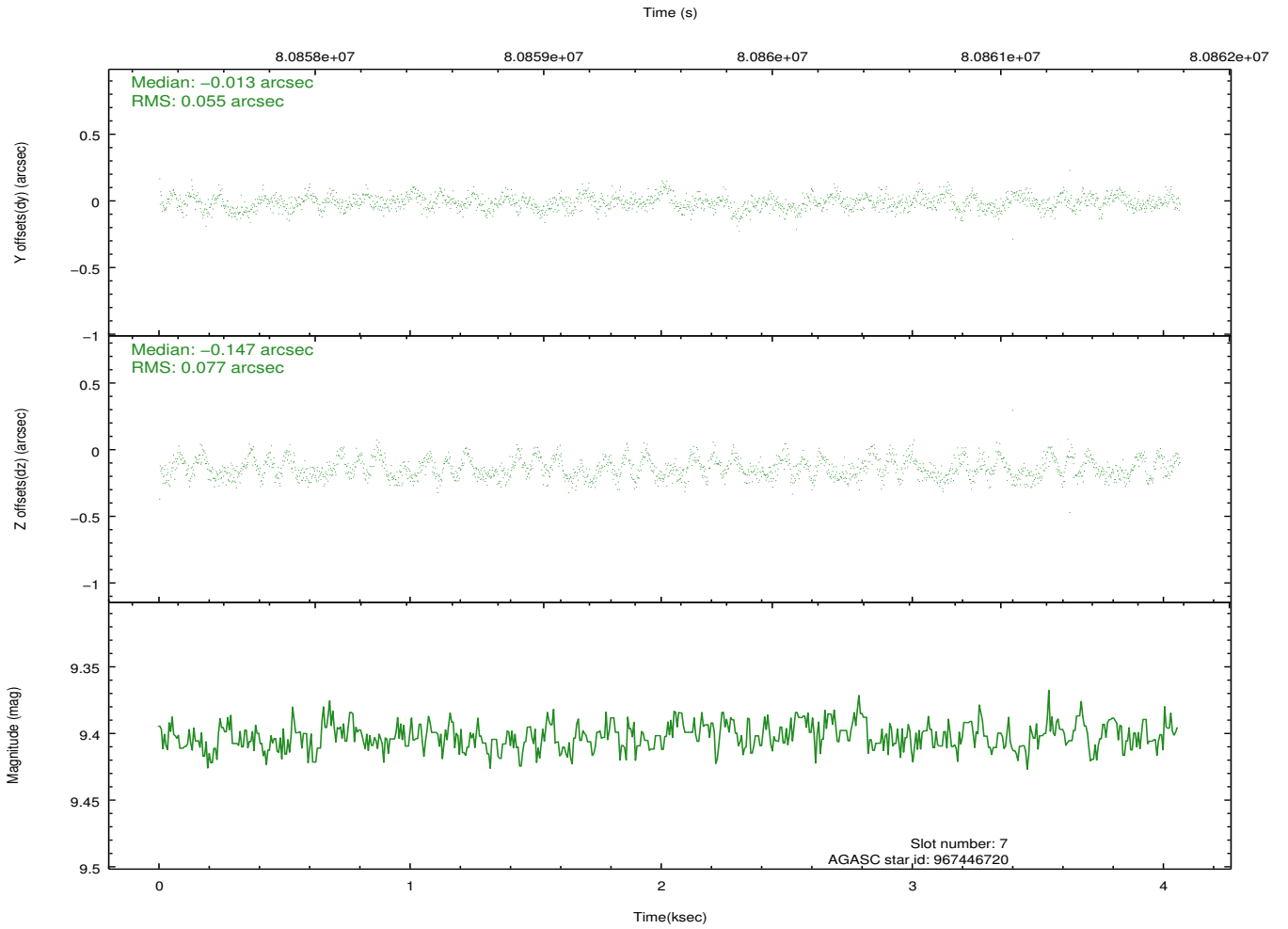
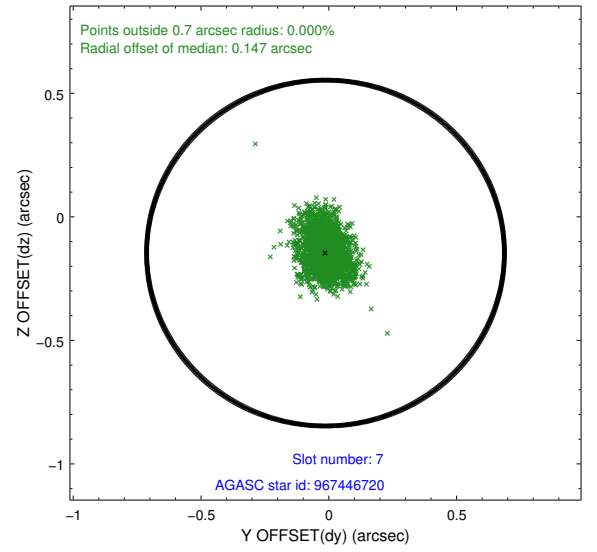
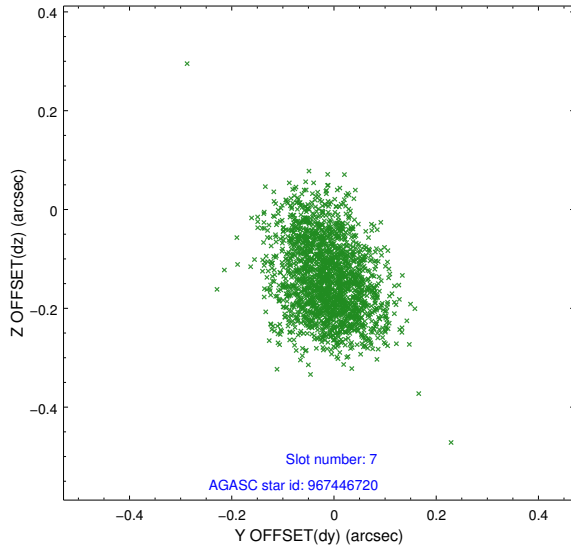


## 2.4.4 Slot 6



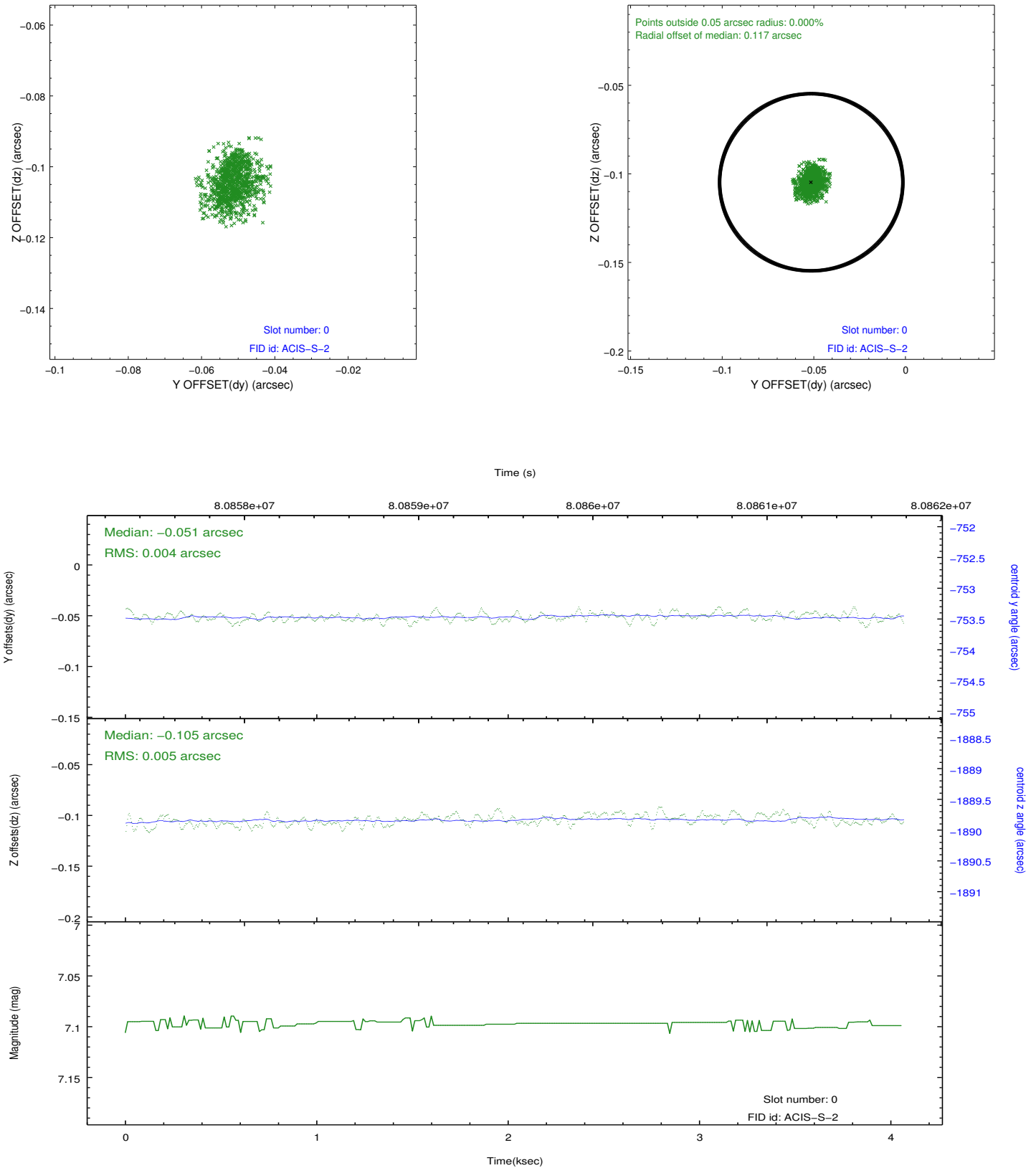


## 2.4.5 Slot 7

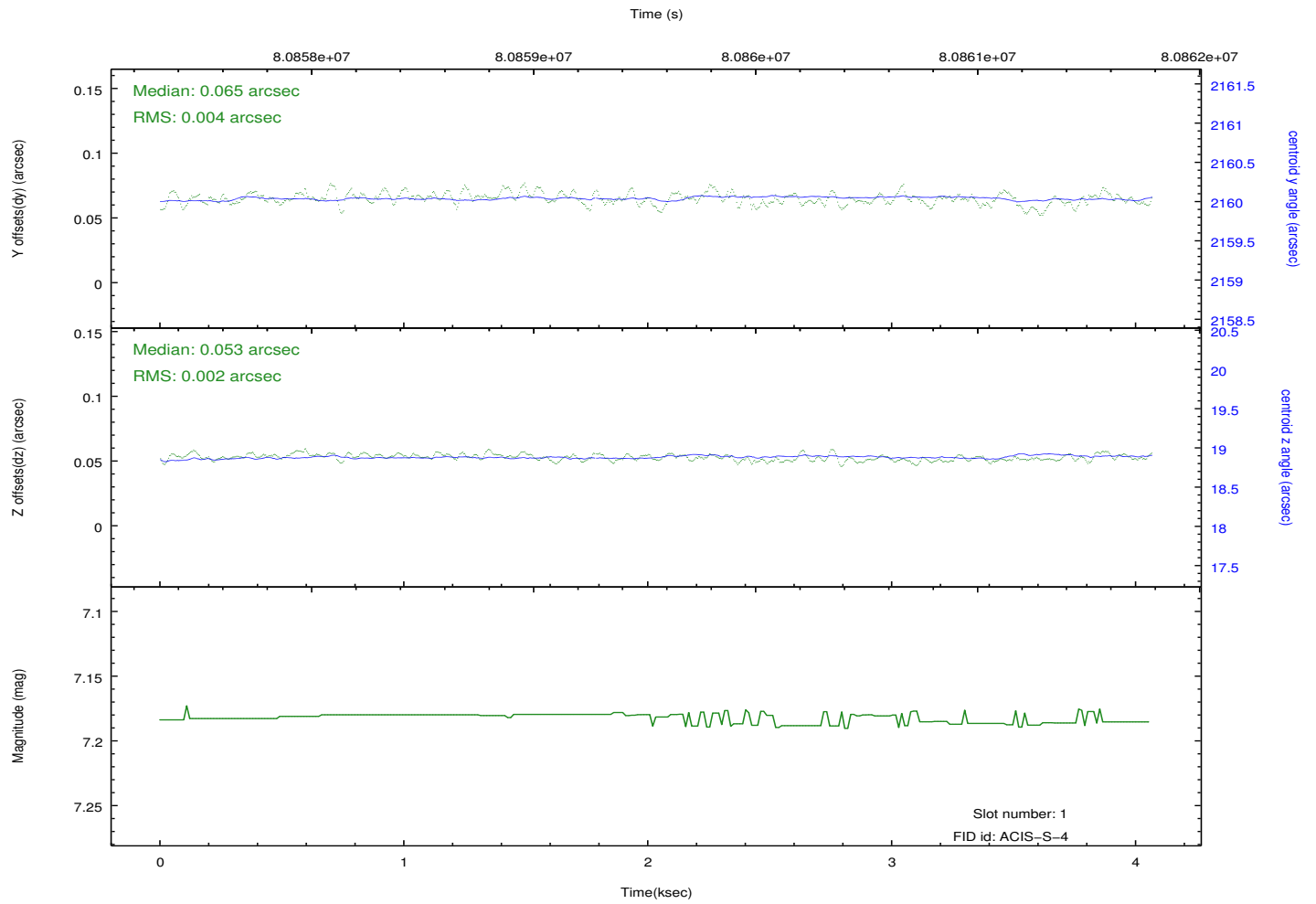
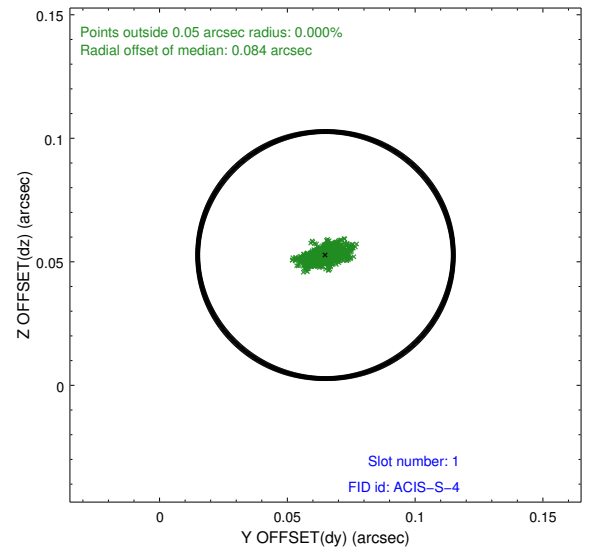
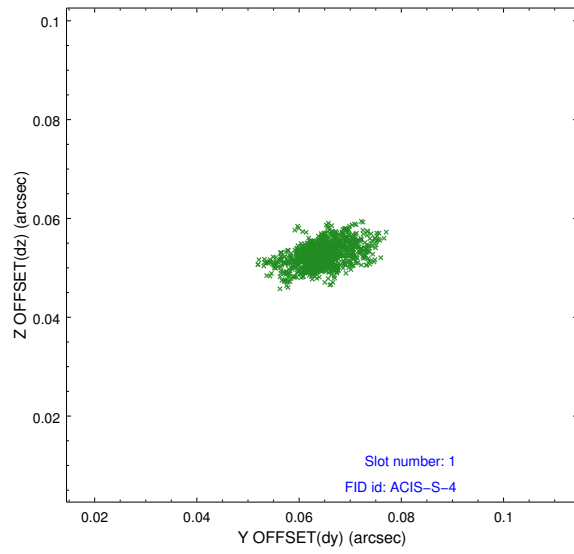


## 2.5 FID Slots

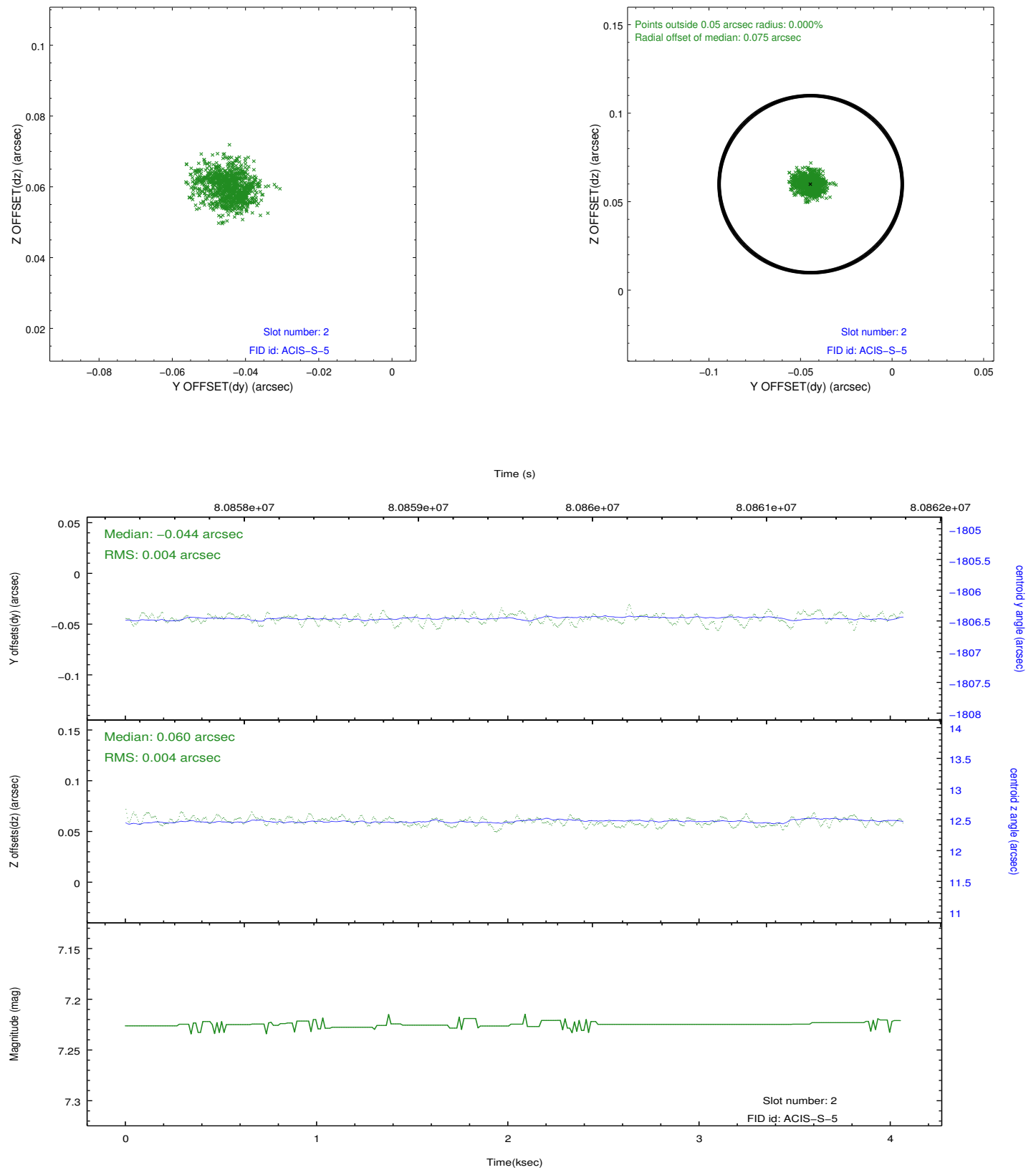
### 2.5.1 Slot 0



## 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)	2012.08.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.064

### A.2 Comments

No source is apparent in this observation.