

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3486 - L2 Version 3  
Chandra X-Ray Center

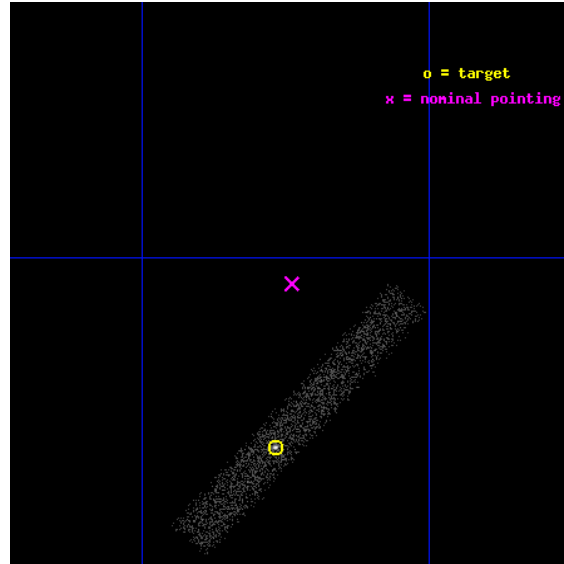
L2 Processing Date : Oct 9 2012

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# 1 Front

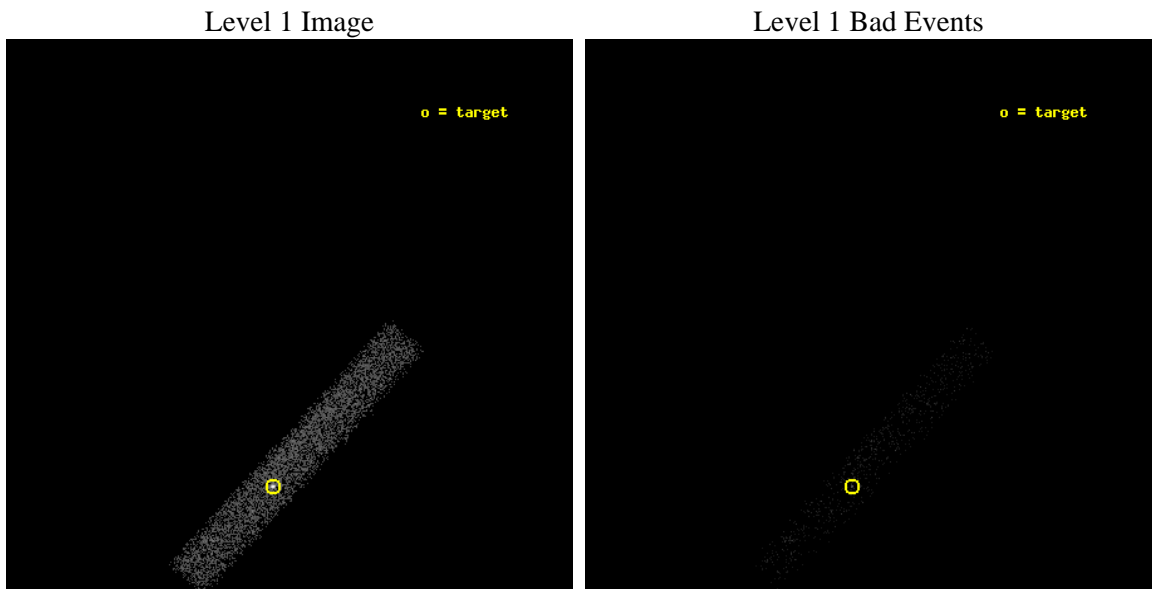
seq_num	400252	Sequence number
obs_id	3486	Observation id
title	VARIABLE THERMAL EMISSION AND FEATURE FROM AQL X-1 IN QUIESCENCE	P
observer	Prof. Robert Rutledge	Principal investigator
object	AQL X-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.816667	Observer's specified target RA [deg]
dec_targ	0.585	Observer's specified target Dec [deg]
ra_nom	287.80974302077	Nominal RA [deg]
dec_nom	0.65541466712467	Nominal Dec [deg]
roll_nom	132.32038194338	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7151.159086436	Sum of GTIs [s]
livetime	6485.723822271	Livetime [s]
ontime7	7151.159086436	Sum of GTIs [s]
l2events	5777	Number of level 2 events



## 2 OBI

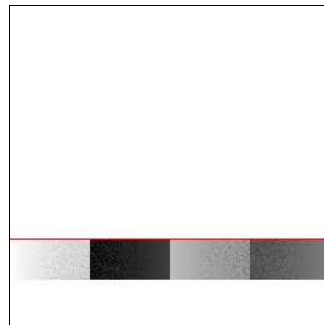
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7151.159086436	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	7151.159086436	Sum of GTIs [s]
date	2012-10-09T03:42:26	Date and time of file creation	l1events	11266	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	11266
rejected events	5389
rejected %	47%

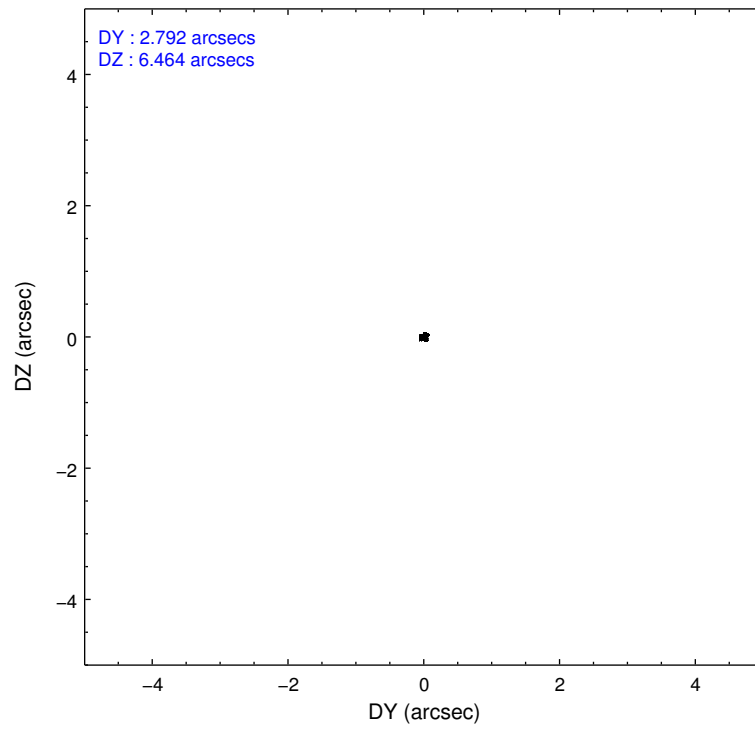
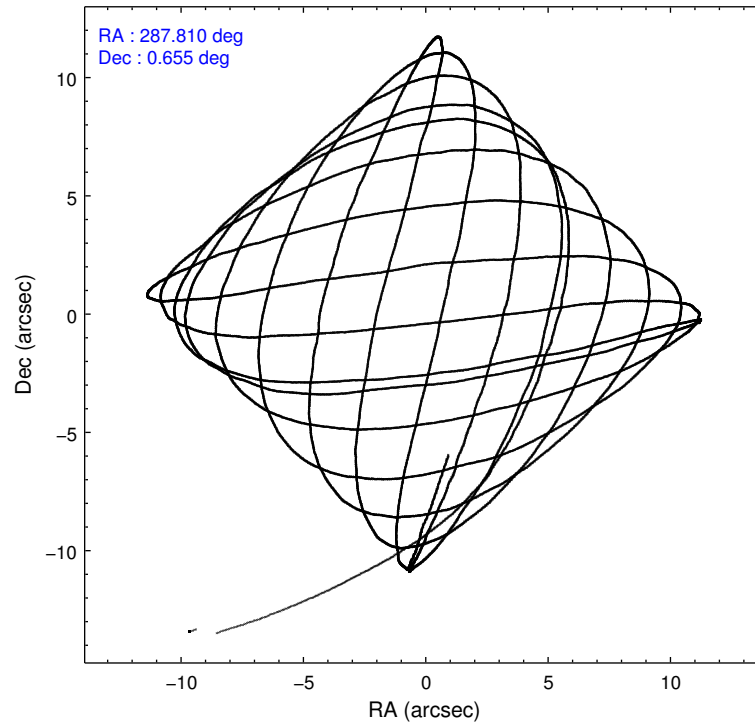
	<b>ccd 7</b>
grade 0 events	1028
	9%
grade 1 events	20
	0%
grade 2 events	1370
	12%
grade 3 events	812
	7%
grade 4 events	777
	6%
grade 5 events	758
	6%
grade 6 events	2412
	21%
grade 7 events	4089
	36%

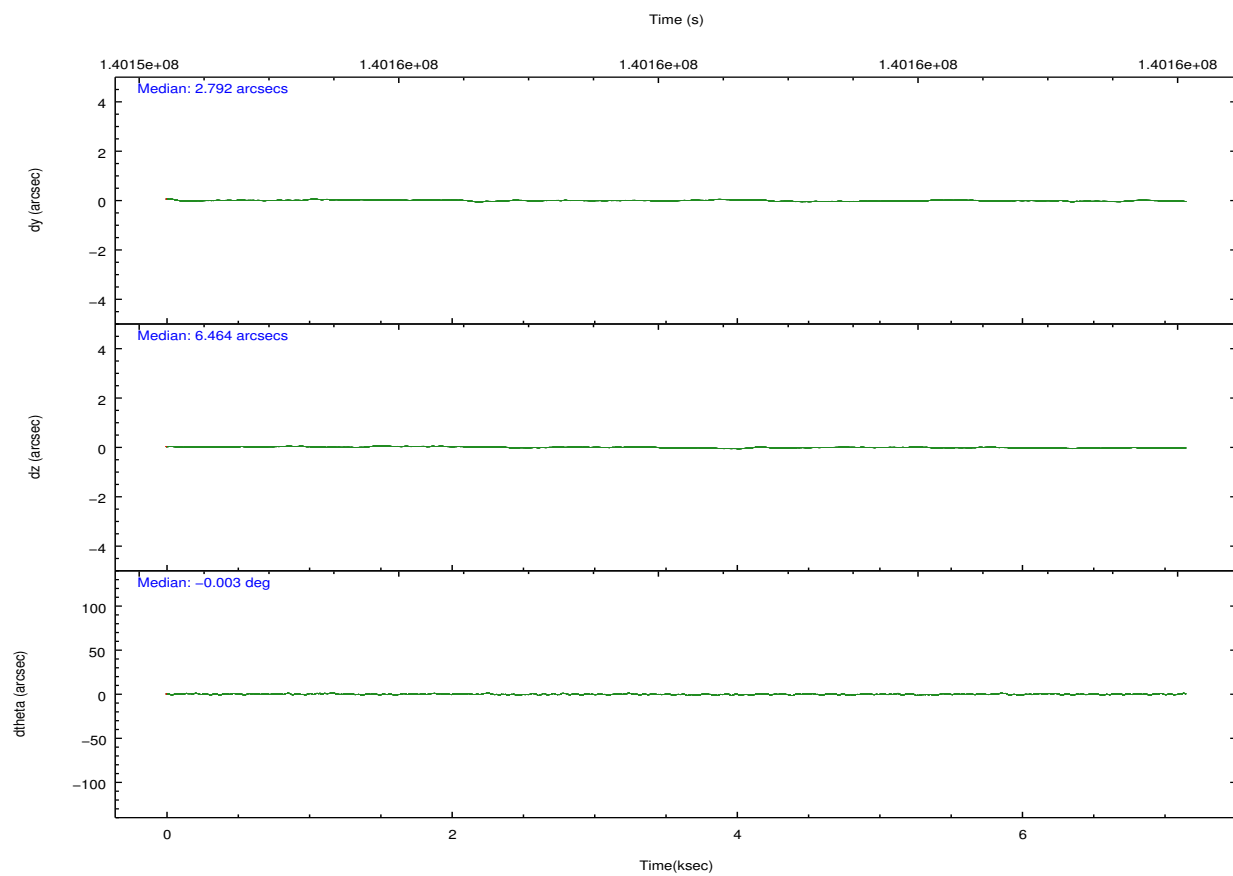
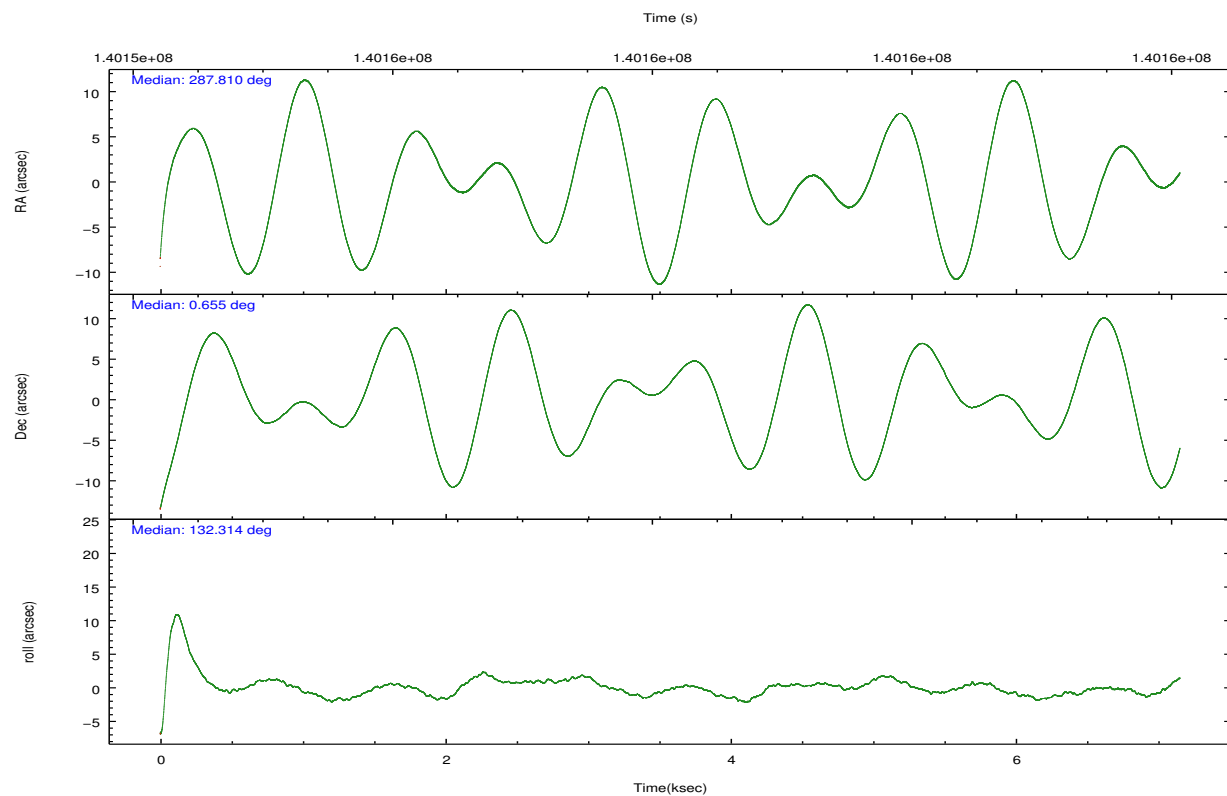


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	287.835813	287.8097430207671	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	0.647541	0.6554146671246729	Subarray start row	150	150
[deg] Pointing Roll	132.163486	132.3203819433849	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	140154707.184000	140153525.62623			
Observation start date	2002-06-11T03:50:43	2002-06-11T03:32:05			
[s] Observation end time (MET)	140161707.184000	140162590.7266			
Observation end date	2002-06-11T05:47:23	2002-06-11T06:03:10			
Read mode	TIMED	TIMED			

## 2.3 Aspect



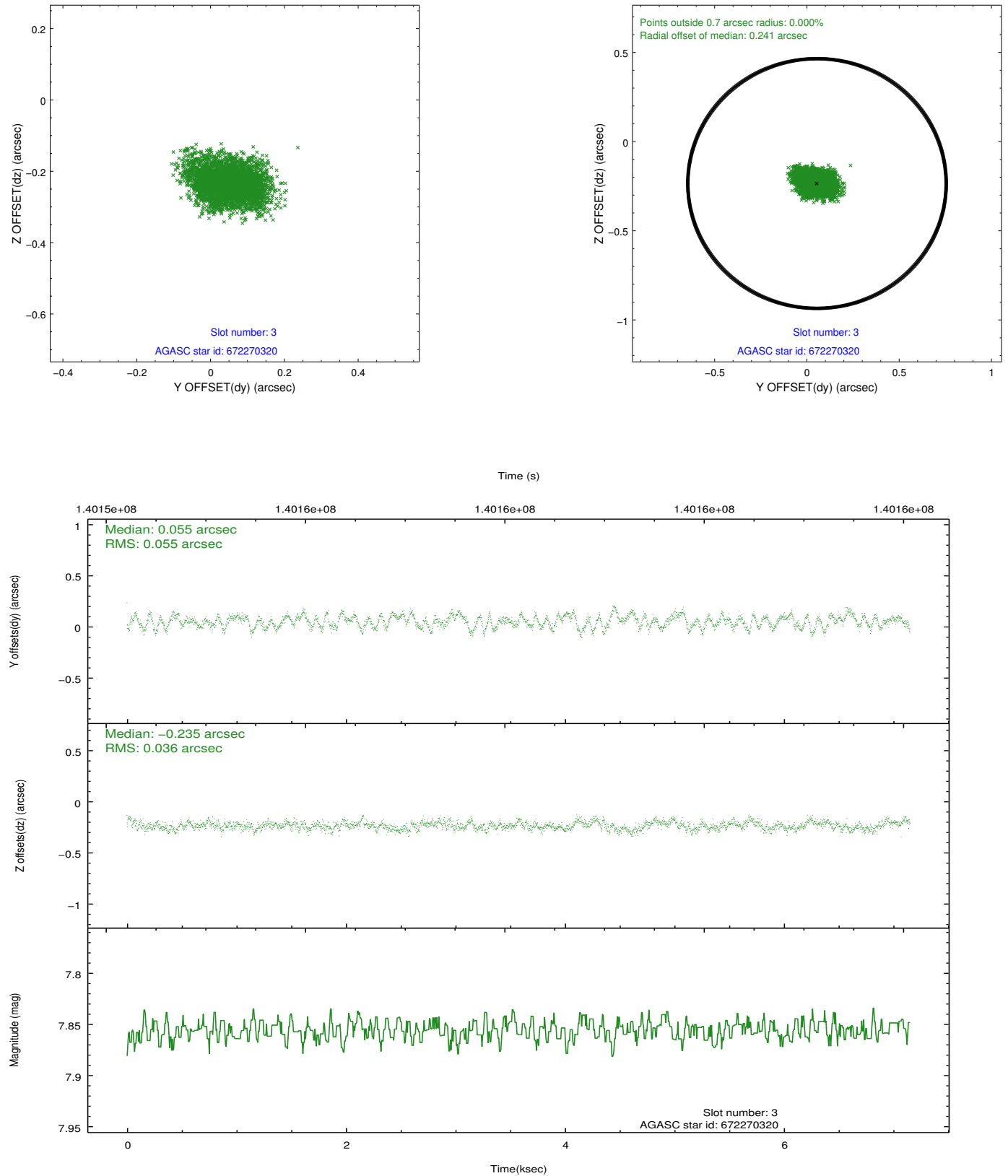


### Slot Statistics

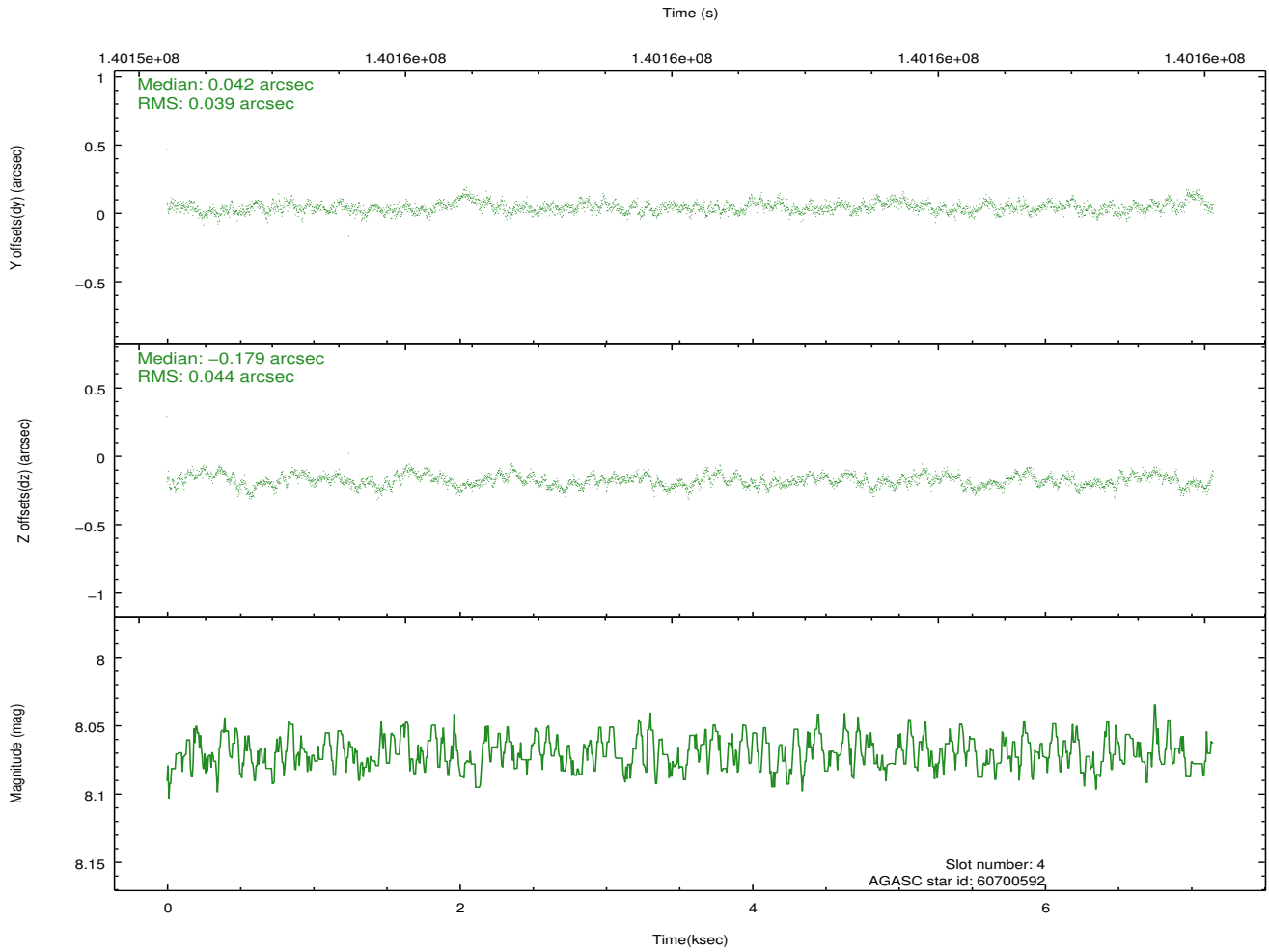
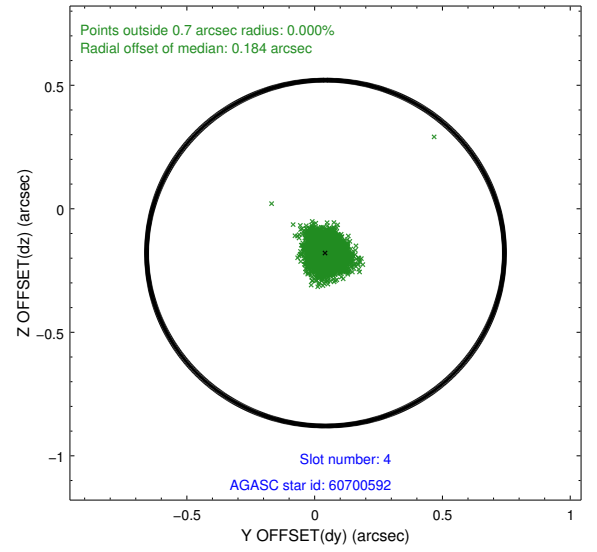
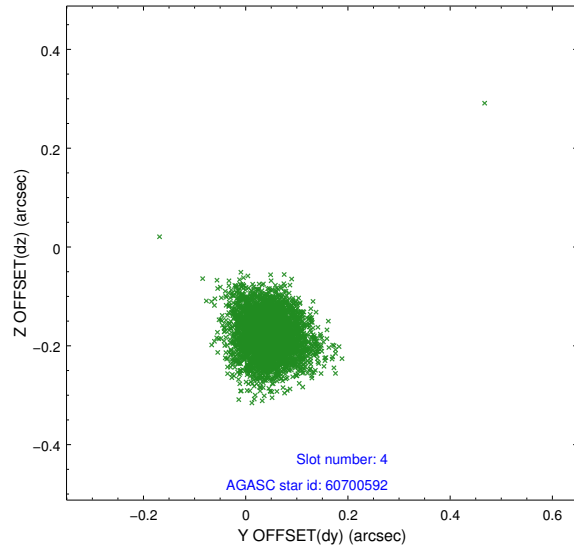
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	1745	-0.068	-0.041	0.007	0.012	0.000000	0.000000	57.66	-1856.67
1	FID	ACIS-S-5	7.24	1744	0.054	-0.045	0.006	0.011	0.000000	0.000000	-1808.38	173.51
2	FID	ACIS-S-6	7.35	1744	-0.008	0.094	0.006	0.011	0.000000	0.000000	405.33	818.48
3	GUIDE	672270320	7.86	3489	0.055	-0.235	0.070	0.115	287.786086	-0.258303	-2297.24	2321.16
4	GUIDE	60700592	8.07	3489	0.042	-0.179	0.062	0.098	287.530354	0.932002	1496.61	128.17
5	GUIDE	60714072	8.93	3488	-0.060	0.137	0.099	0.157	288.094723	1.368496	1299.16	-2432.72
6	GUIDE	60694136	9.02	3487	-0.162	0.067	0.103	0.159	287.735532	1.421294	2307.62	-1602.76
7	GUIDE	60706104	9.33	3484	0.122	0.211	0.099	0.157	288.572310	0.711214	-1608.57	-2119.72

## 2.4 Star Slots

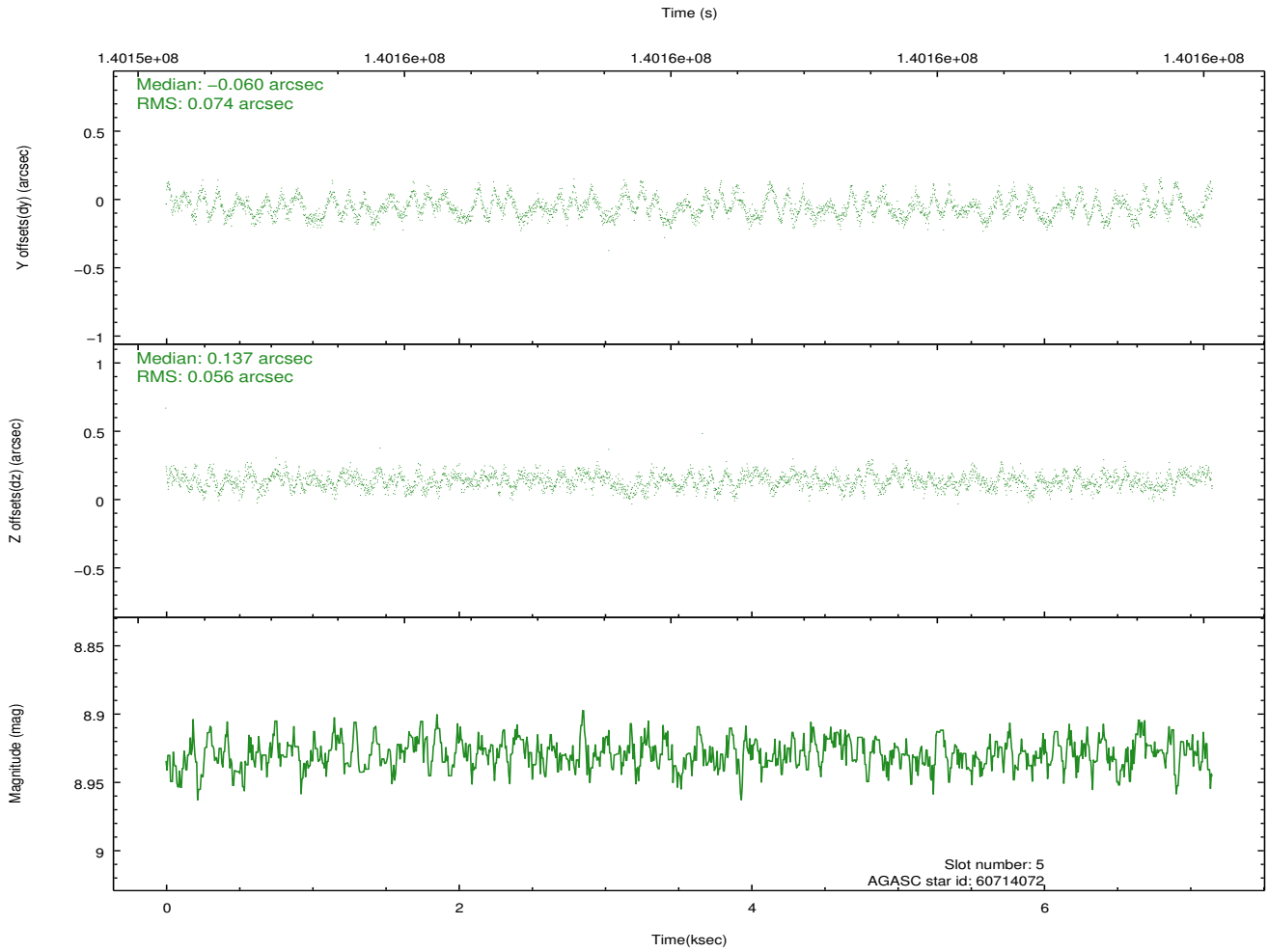
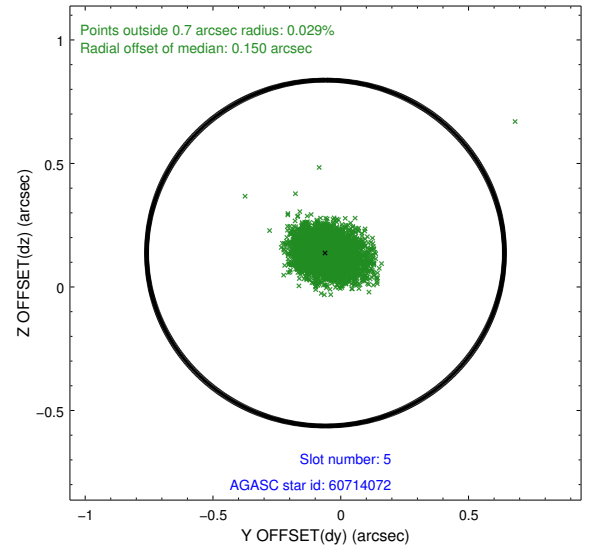
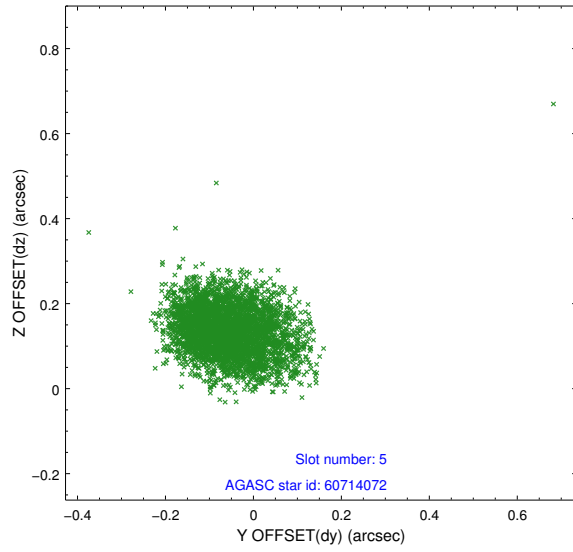
### 2.4.1 Slot 3



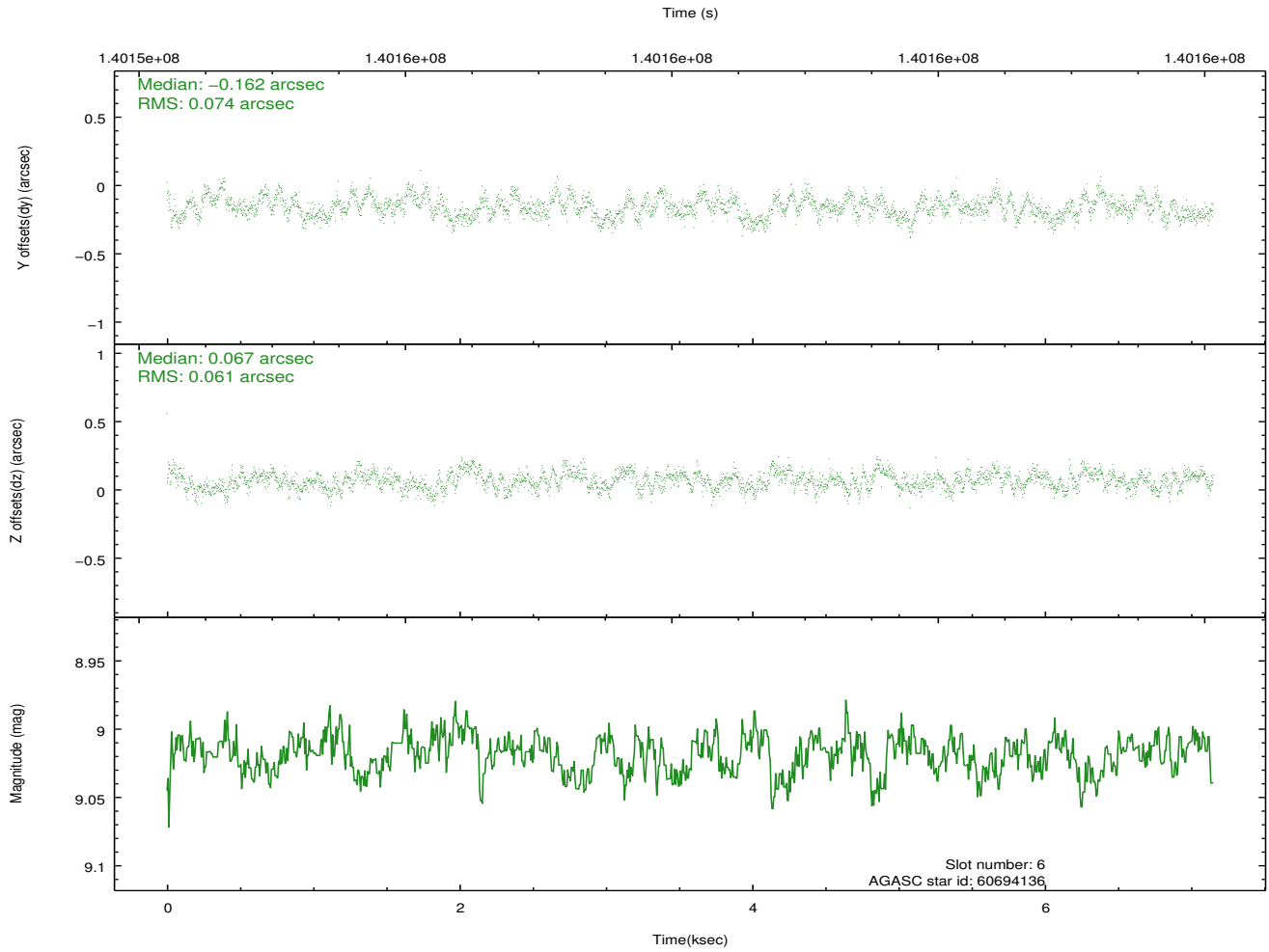
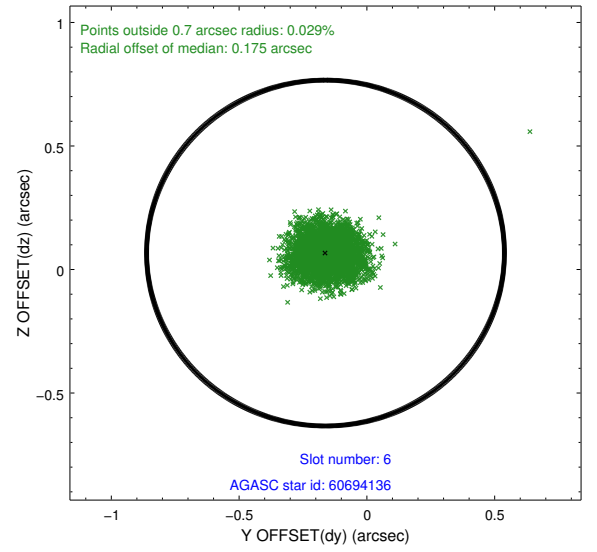
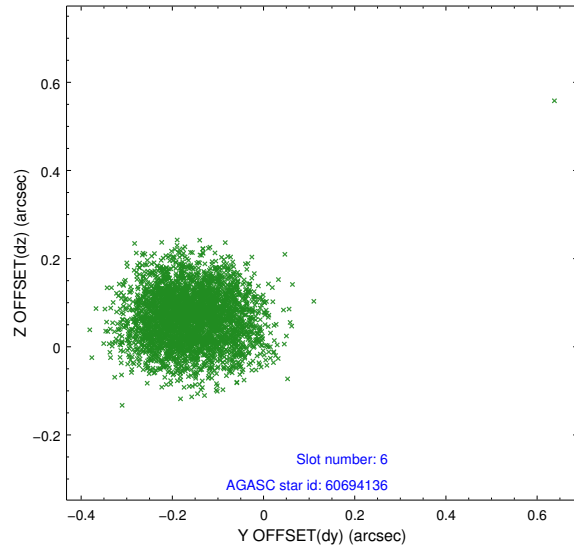
## 2.4.2 Slot 4



### 2.4.3 Slot 5

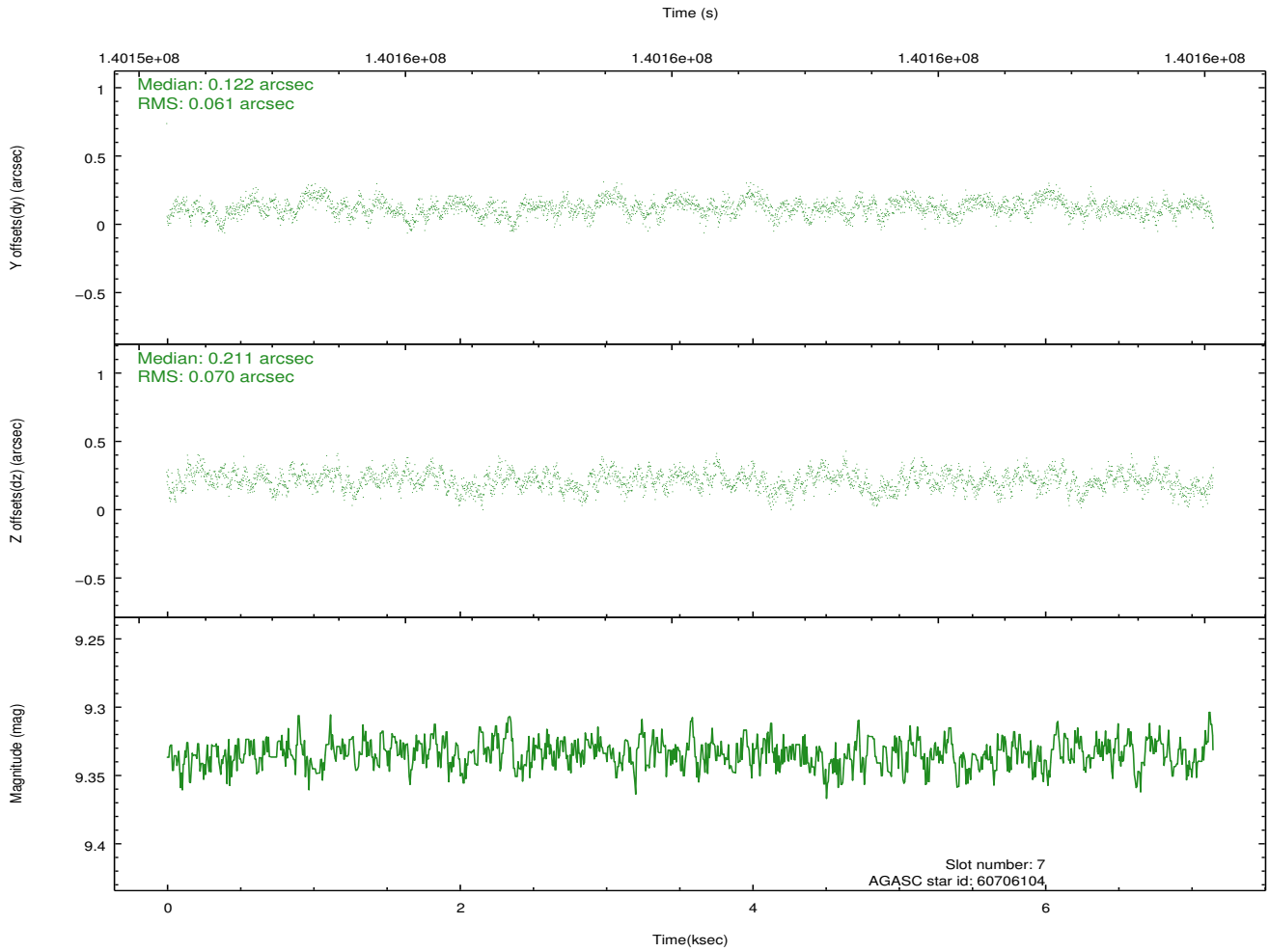
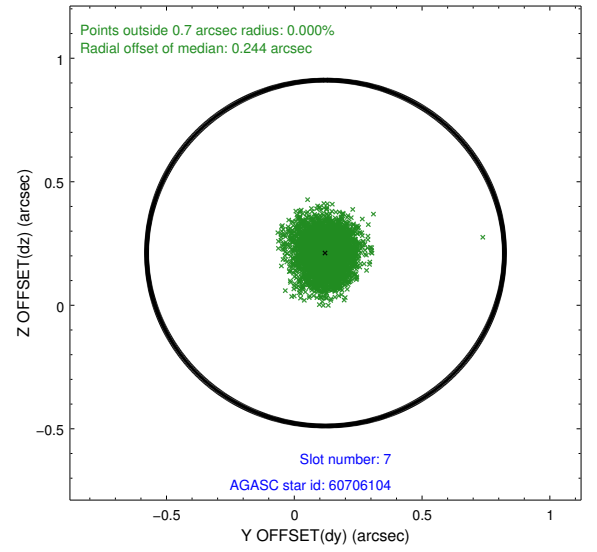
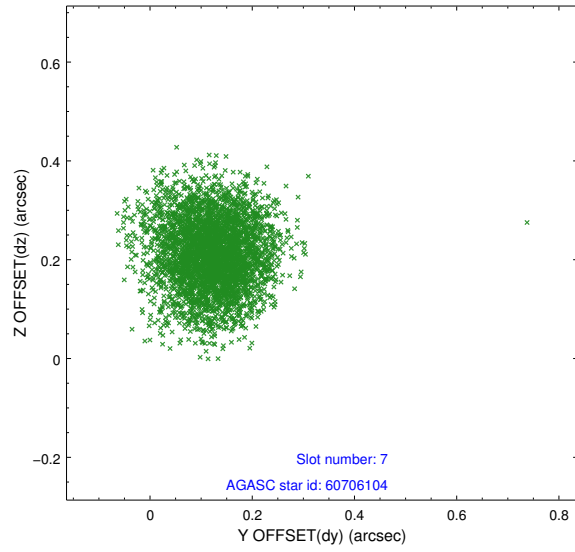


## 2.4.4 Slot 6



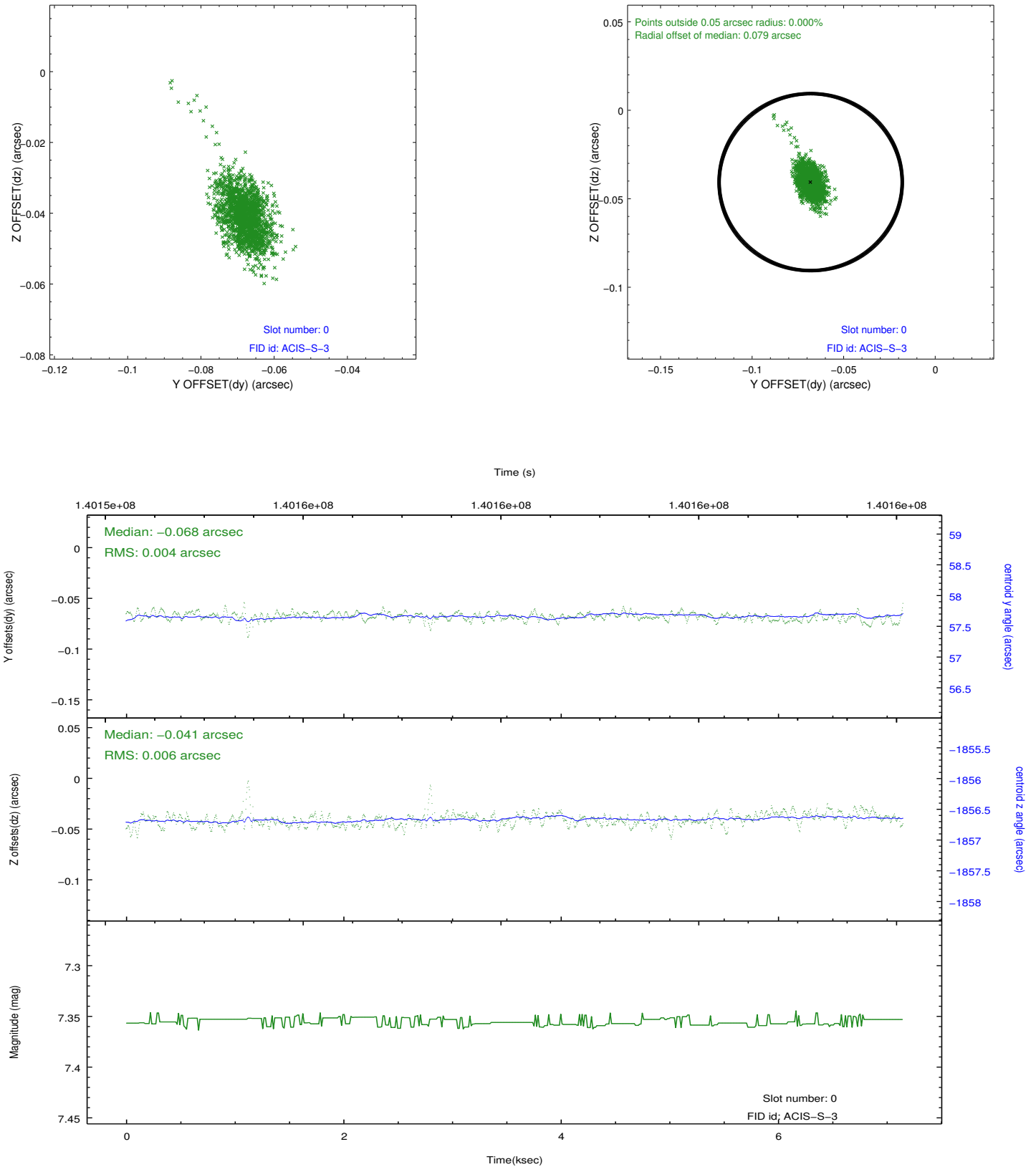


## 2.4.5 Slot 7

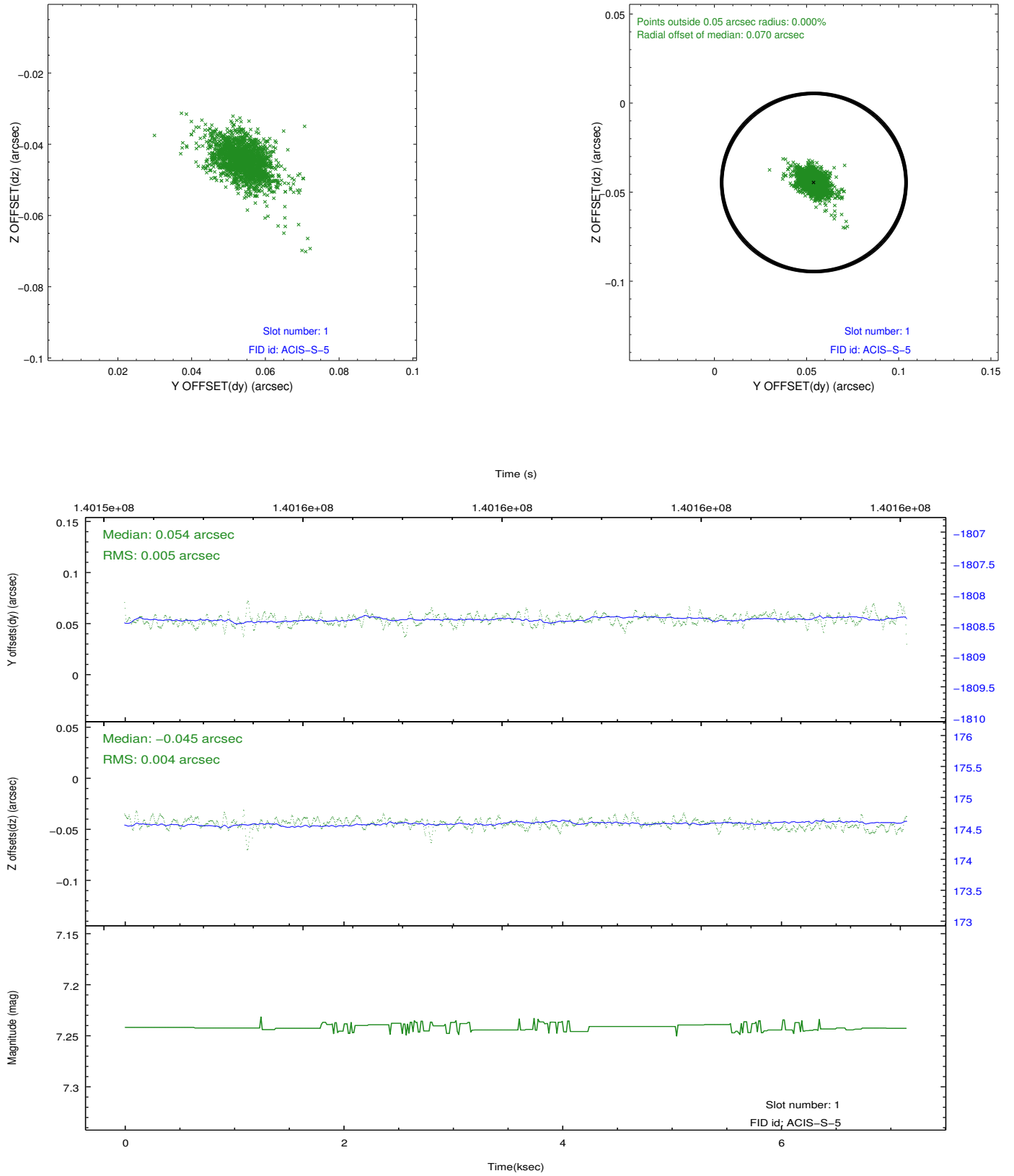


## 2.5 FID Slots

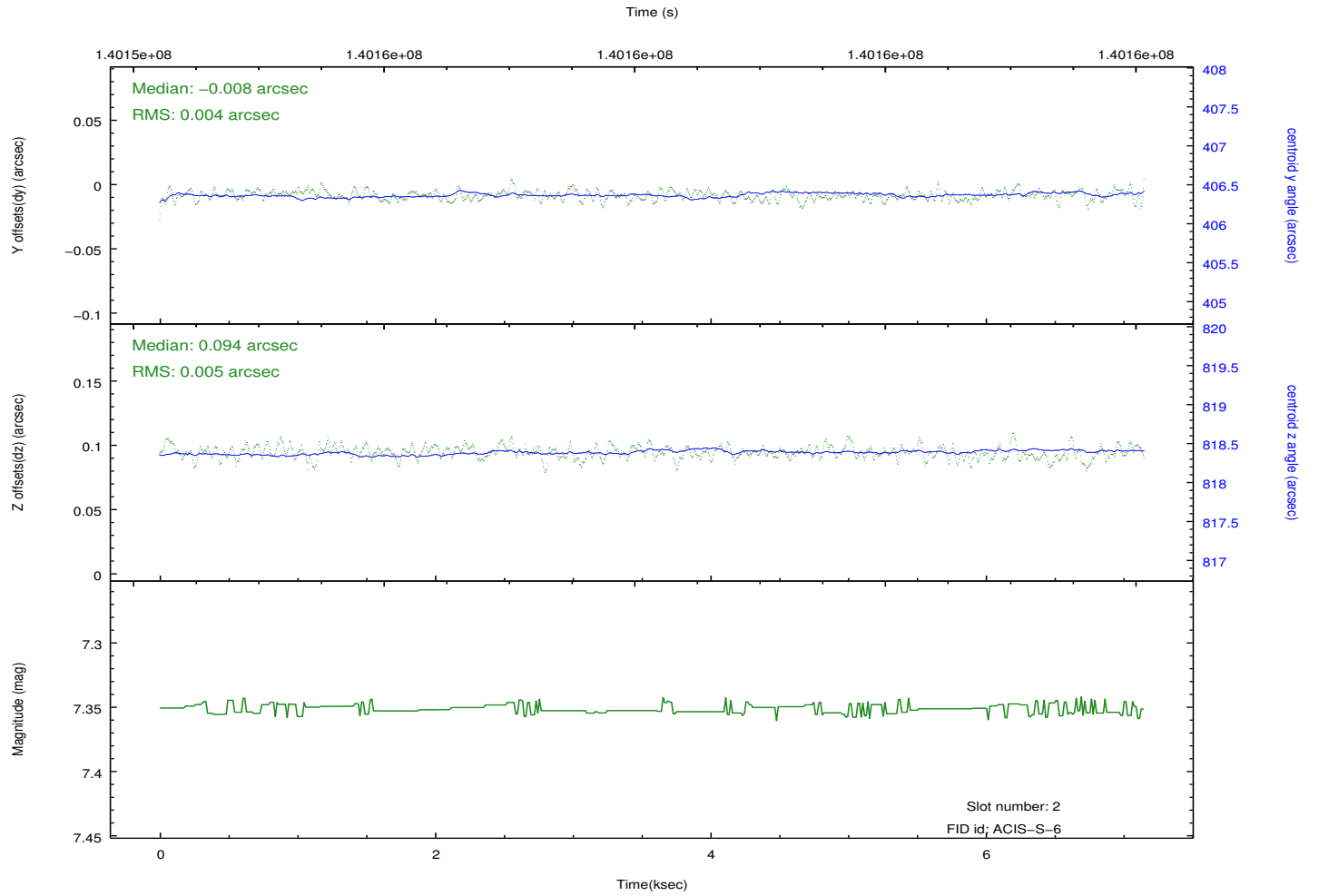
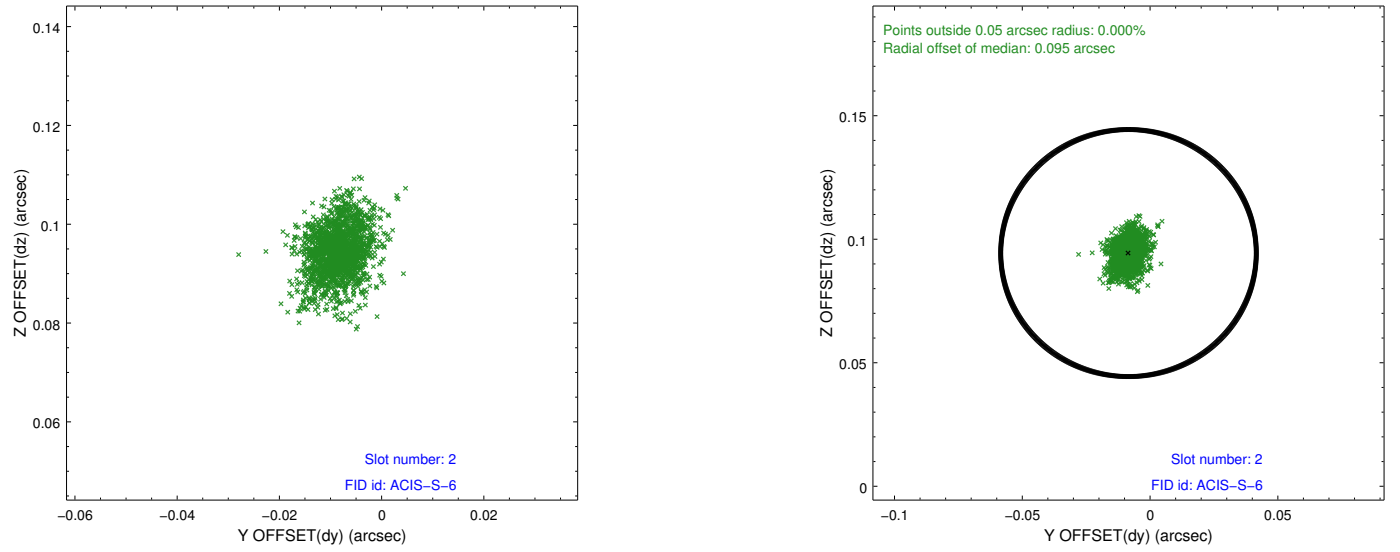
### 2.5.1 Slot 0



## 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)	2012.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.151

### A.2 Comments