

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2174 - L2 Version 3  
Chandra X-Ray Center

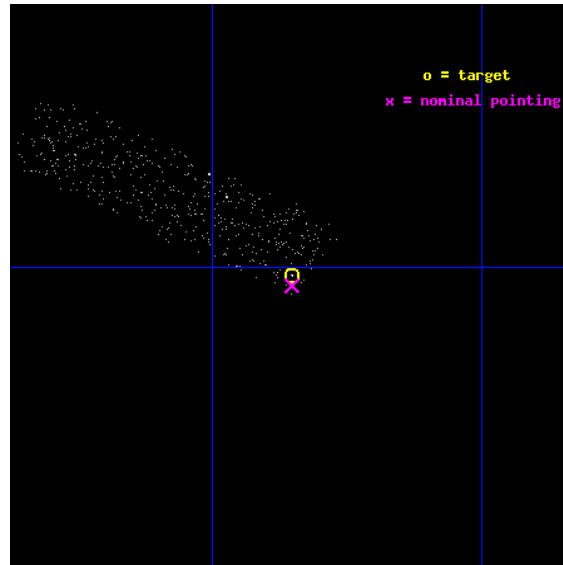
L2 Processing Date : Sep 28 2012

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# 1 Front

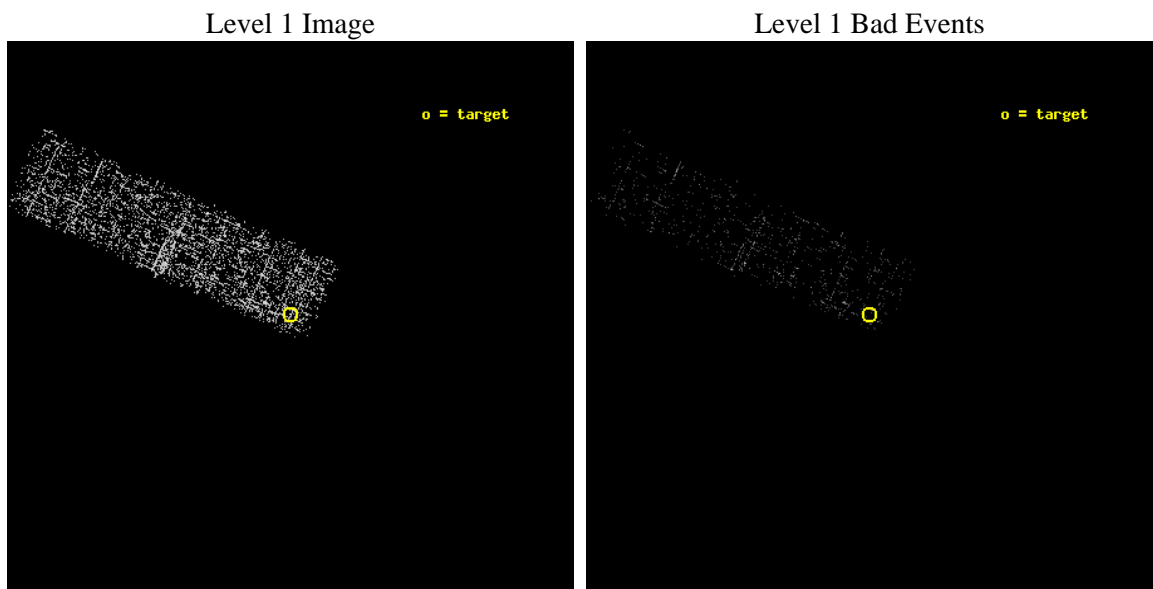
seq_num	700364	Sequence number
obs_id	2174	Observation id
title	RED QUASARS AND THE X-RAY BACKGROUND	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	2MASSJ222221+1959	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	335.587917	Observer's specified target RA [deg]
dec_targ	19.9965	Observer's specified target Dec [deg]
ra_nom	335.58805203297	Nominal RA [deg]
dec_nom	19.992020949142	Nominal Dec [deg]
roll_nom	294.58052903391	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2638.3589800745	Sum of GTIs [s]
livetime	2509.6156949249	Livetime [s]
ontime3	2638.3589800745	Sum of GTIs [s]
l2events	529	Number of level 2 events



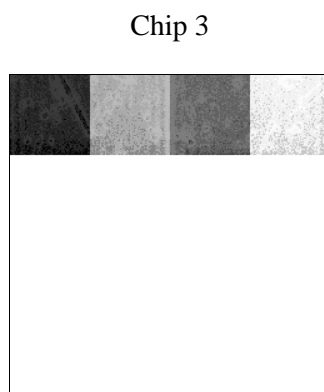
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	7	Obi number	sched_exp_time	2200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2638.3589800745	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime3	2638.3589800745	Sum of GTIs [s]
date	2012-09-28T22:05:43	Date and time of file creation	l1events	6433	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

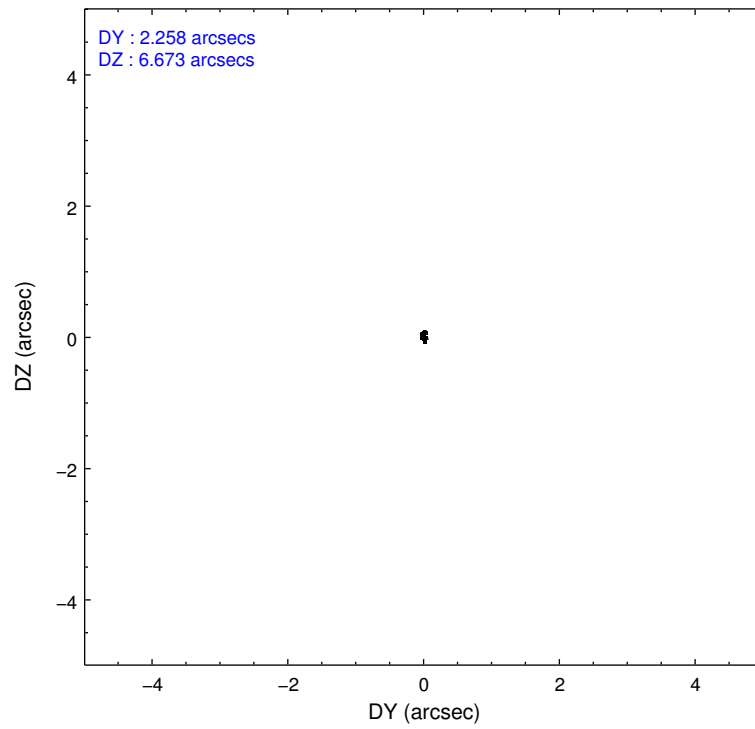
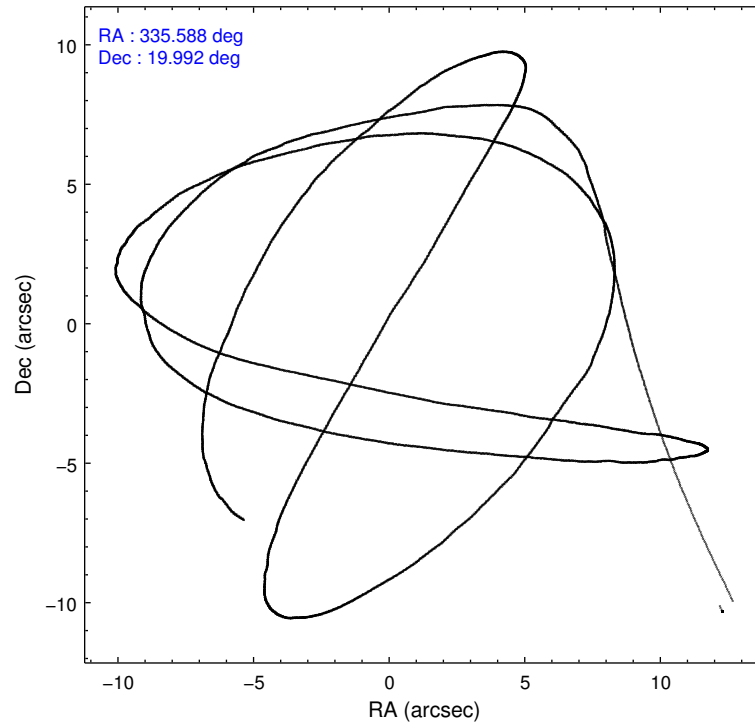
	<b>ccd 3</b>
level 1 events	6433
rejected events	5818
rejected %	90%

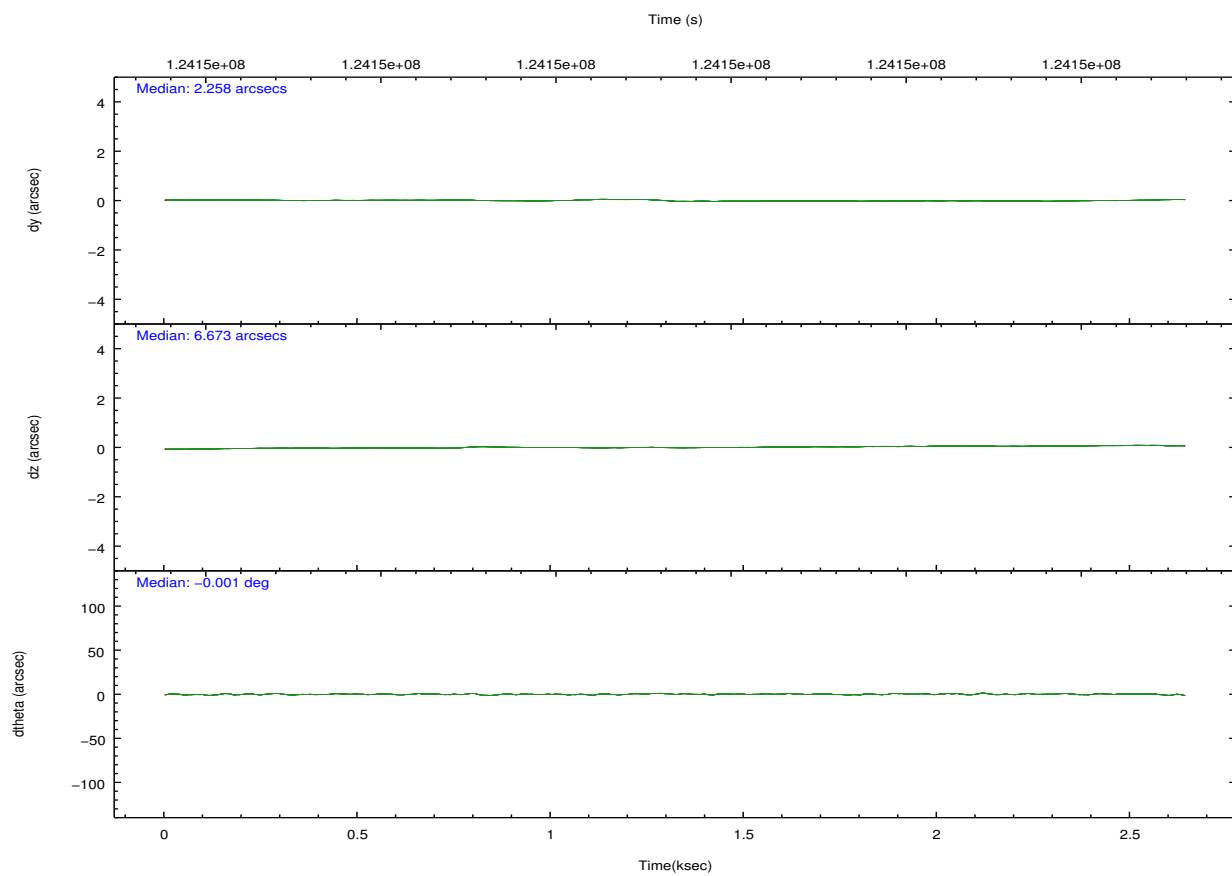
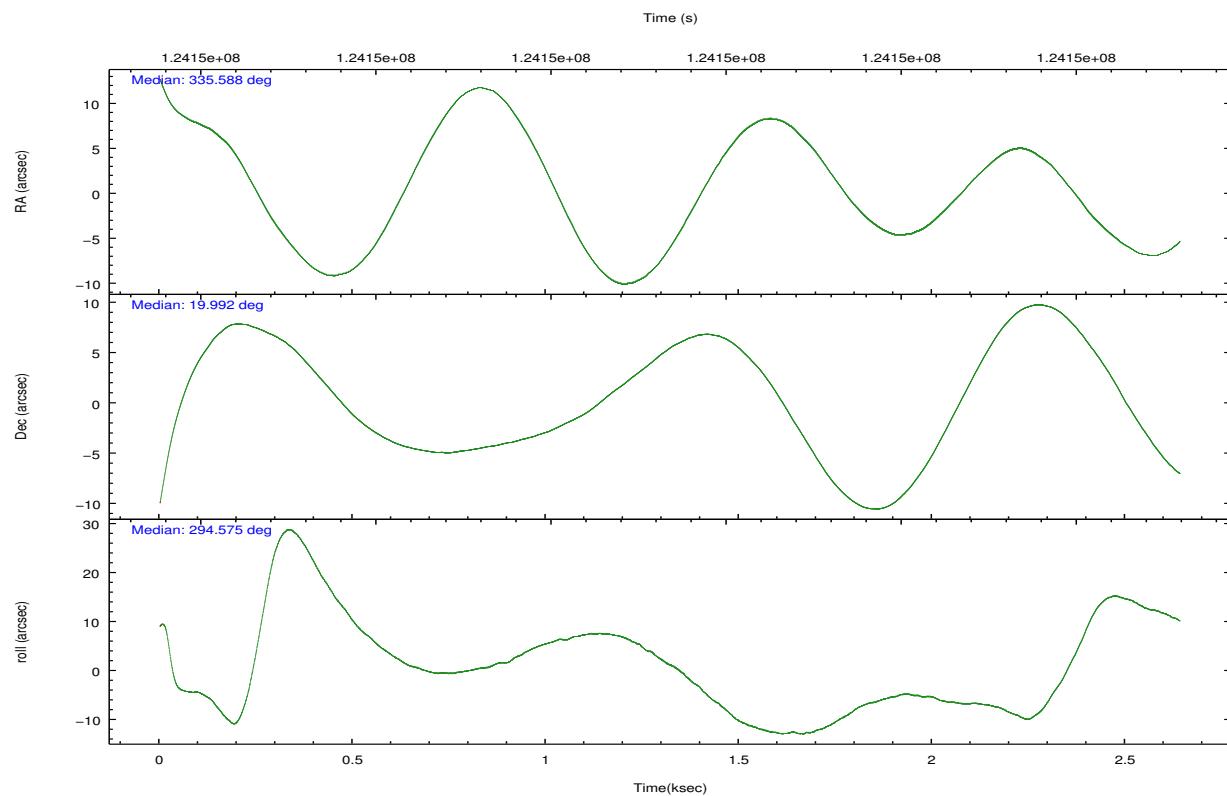
	<b>ccd 3</b>
grade 0 events	274
	4%
grade 1 events	1
	0%
grade 2 events	102
	1%
grade 3 events	114
	1%
grade 4 events	109
	1%
grade 5 events	193
	3%
grade 6 events	115
	1%
grade 7 events	5525
	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	335.564236	335.5880520329727	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	20.007646	19.99202094914154	Subarray start row	769	769
[deg] Pointing Roll	294.379950	294.5805290339066	Subarray row count	256	256
[mm] SIM focus pos	-0.782348	-0.7809083437167272	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001439871863259334	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	124150964.184000	124149871.97846			
Observation start date	2001-12-07T22:21:40	2001-12-07T22:04:31			
[s] Observation end time (MET)	124153164.184000	124153732.64111			
Observation end date	2001-12-07T22:58:20	2001-12-07T23:08:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect



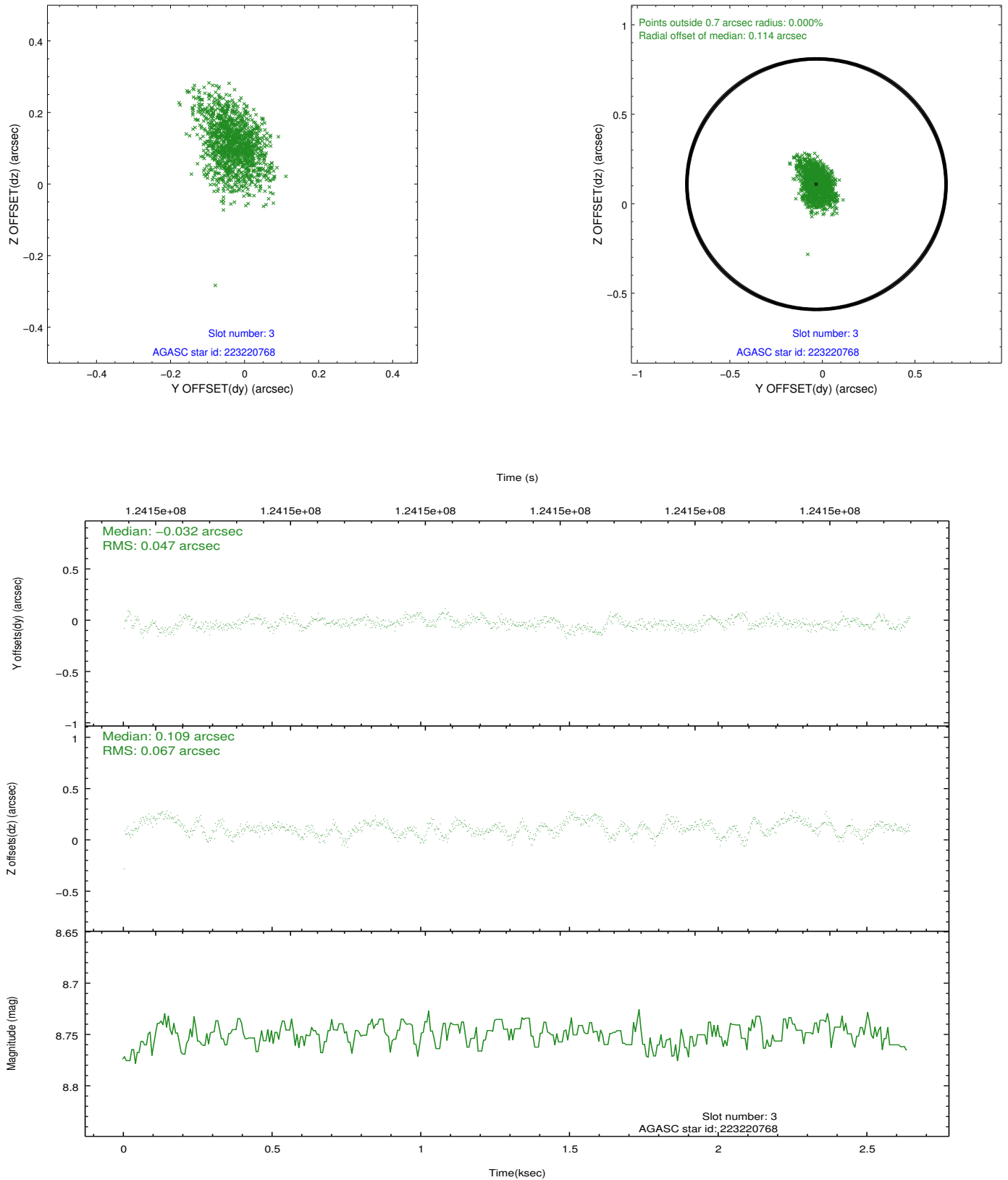


### Slot Statistics

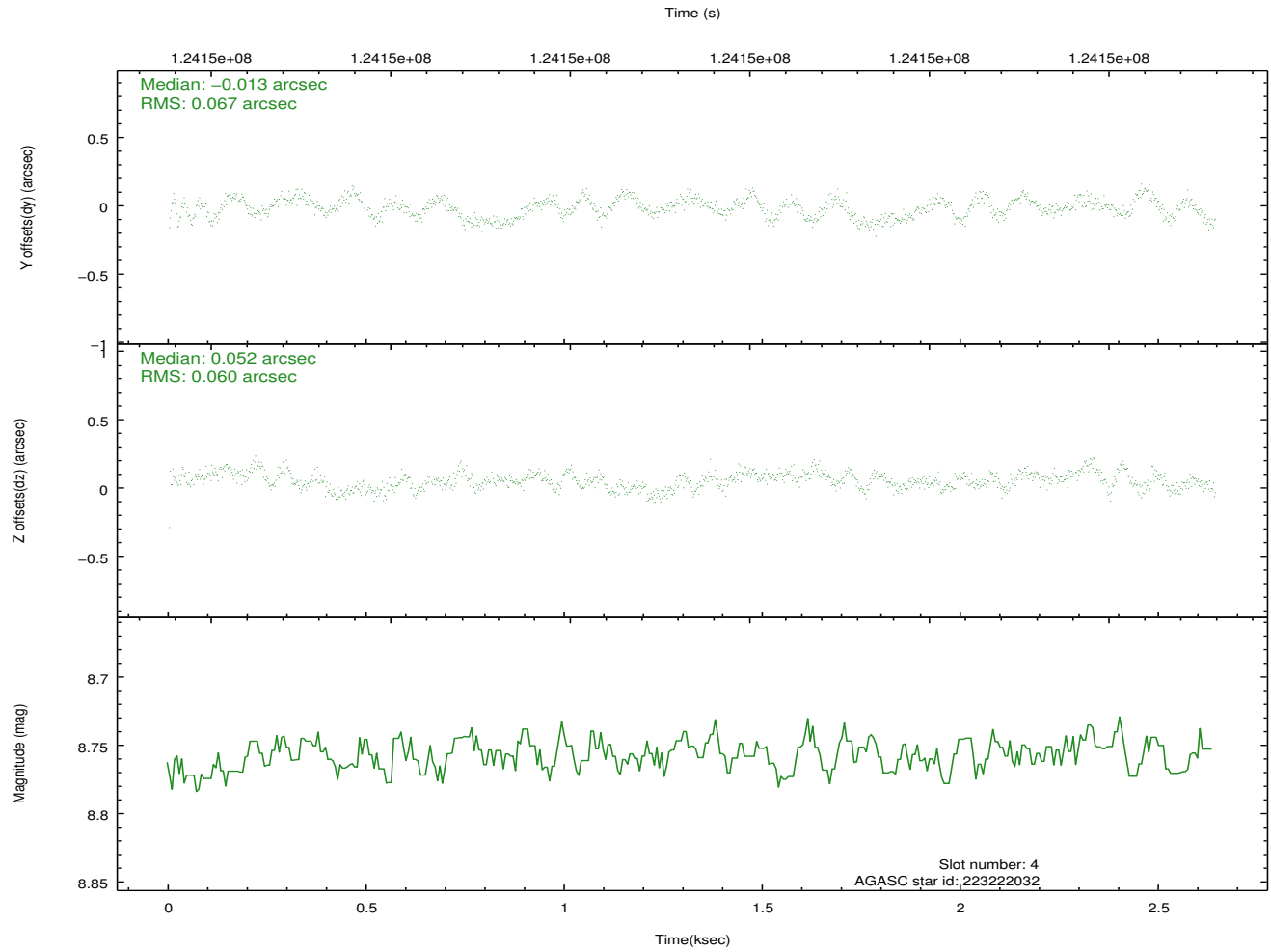
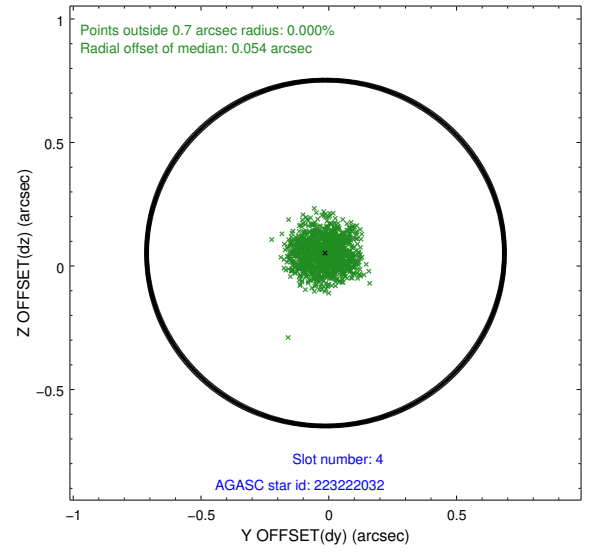
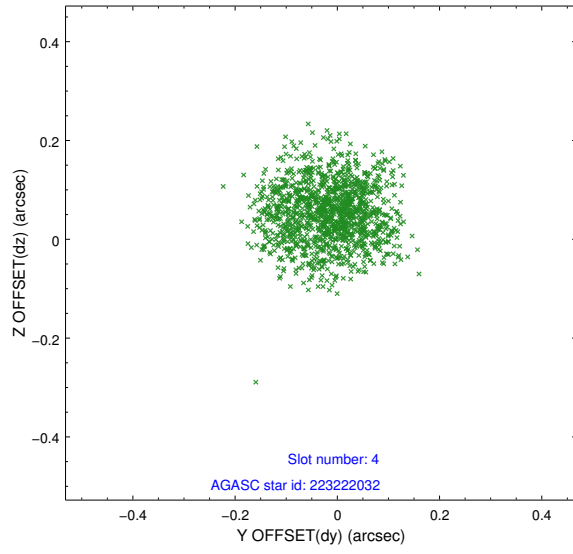
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	645	-0.009	0.018	0.007	0.011	0.000000	0.000000	937.53	-830.07
1	FID	ACIS-I-5	7.24	645	-0.037	0.045	0.007	0.011	0.000000	0.000000	-1809.20	1066.30
2	FID	ACIS-I-6	7.26	645	-0.045	0.007	0.008	0.011	0.000000	0.000000	400.45	1713.48
3	GUIDE	223220768	8.75	1288	-0.032	0.109	0.086	0.144	336.138894	20.276133	-81.59	2167.25
4	GUIDE	223222032	8.76	1289	-0.013	0.052	0.100	0.149	336.302529	20.086316	768.09	2393.96
5	GUIDE	221522416	9.61	1287	0.131	-0.037	0.095	0.159	335.801392	19.787525	1054.55	406.13
6	GUIDE	222050424	10.59	1273	-0.062	-0.034	0.161	0.277	335.429641	20.629776	-2225.64	511.02
7	GUIDE	221524824	9.72	1285	-0.024	-0.092	0.101	0.164	335.185669	19.540573	999.48	-1863.63

## 2.4 Star Slots

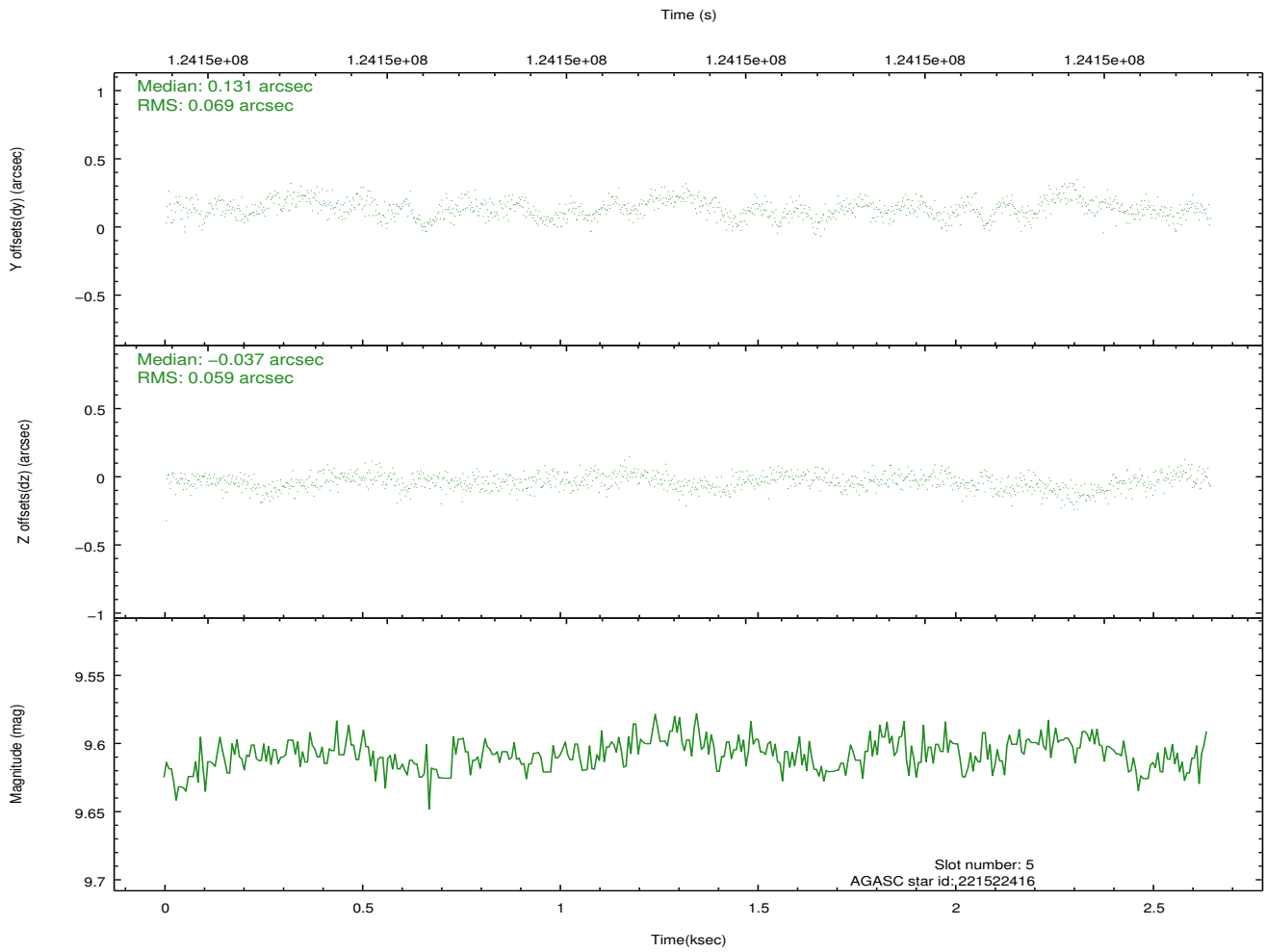
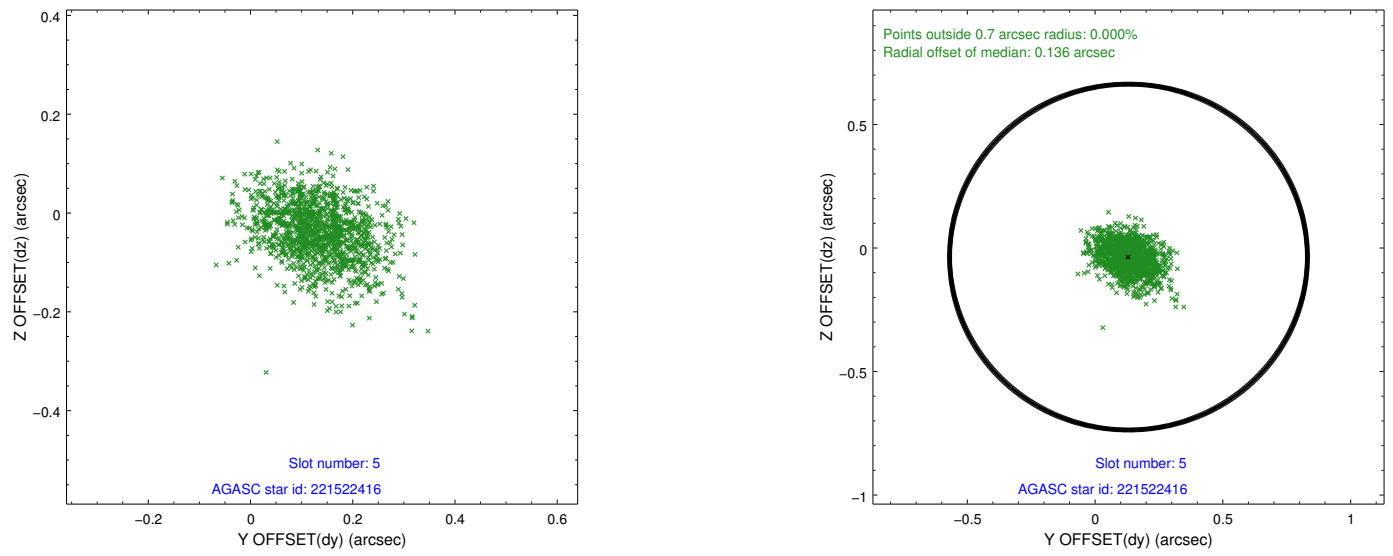
### 2.4.1 Slot 3



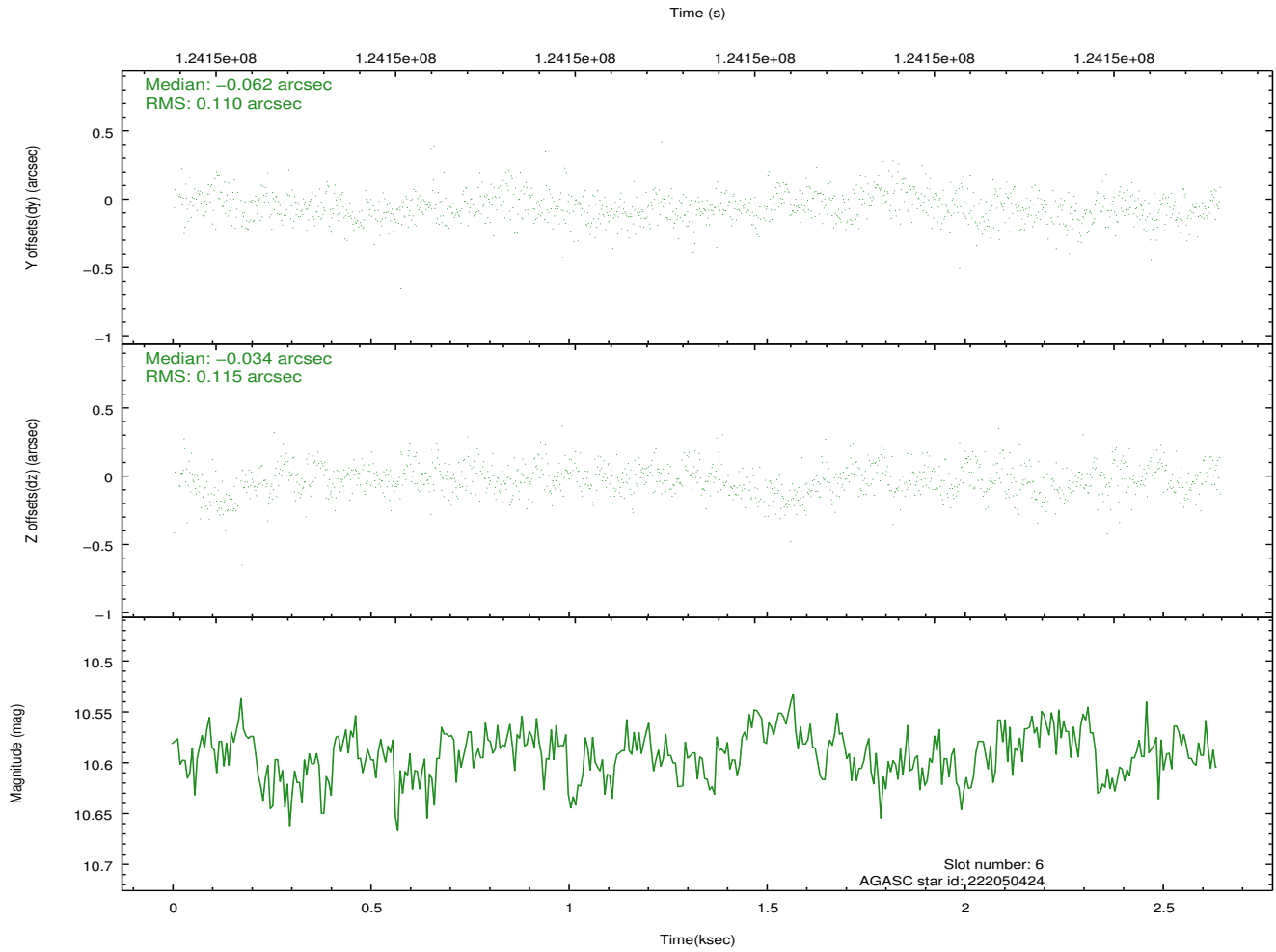
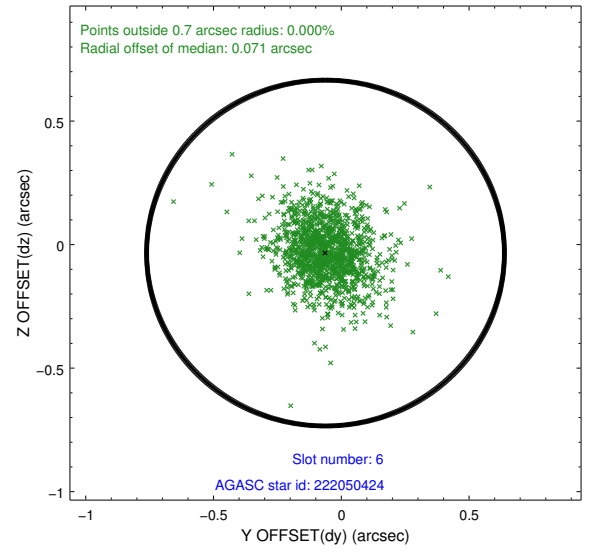
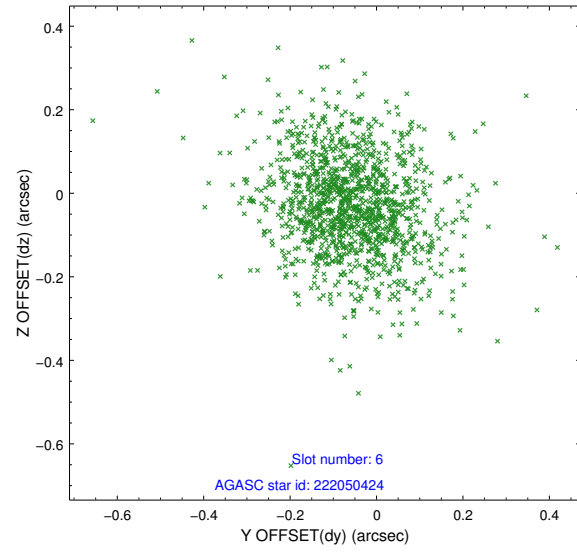
## 2.4.2 Slot 4



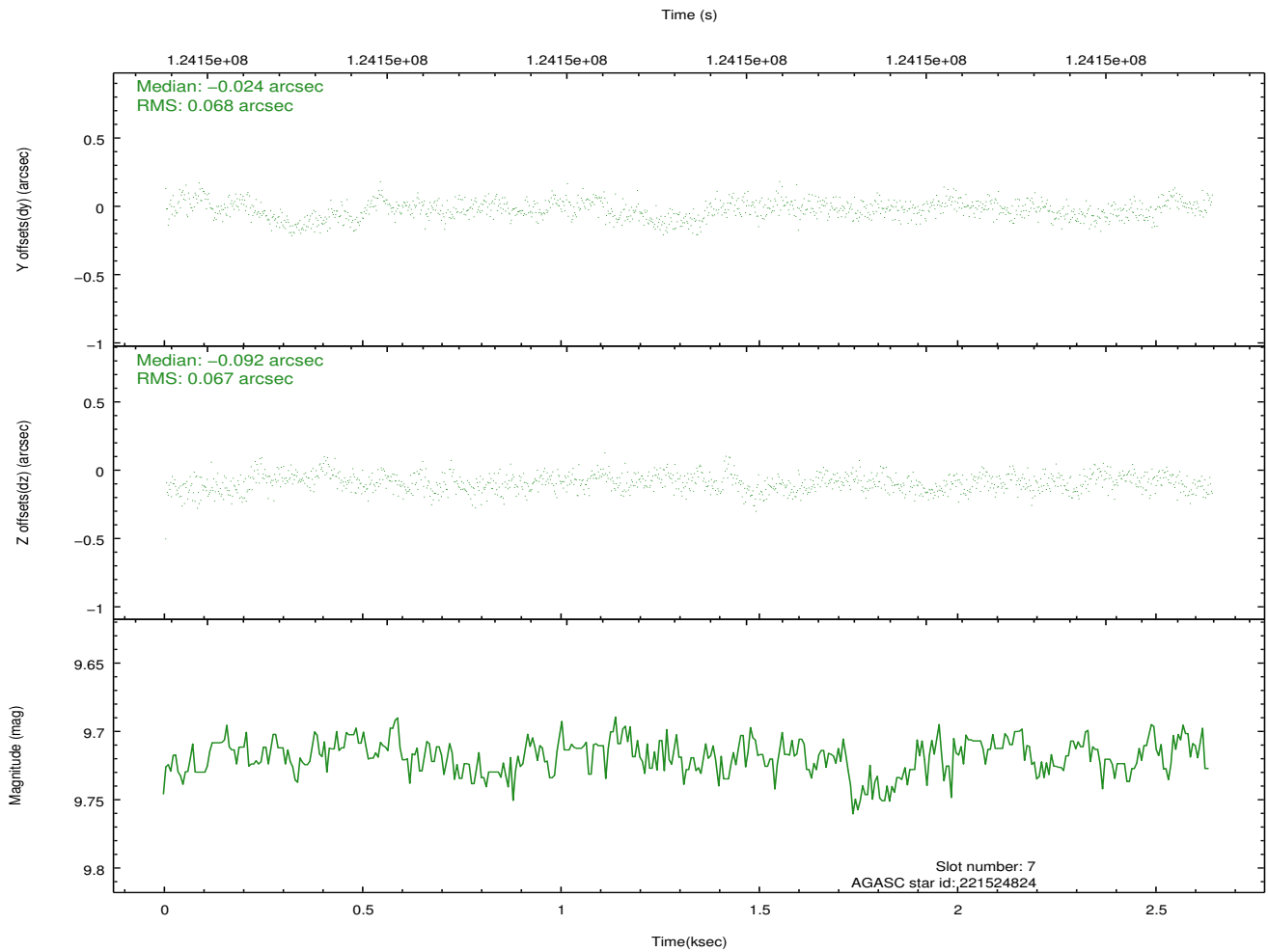
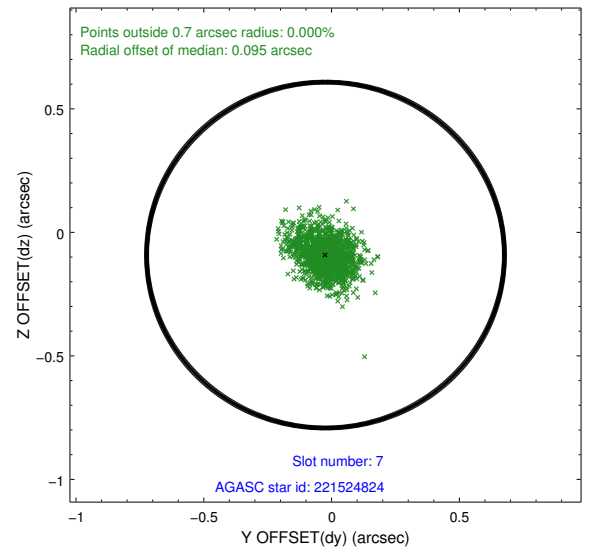
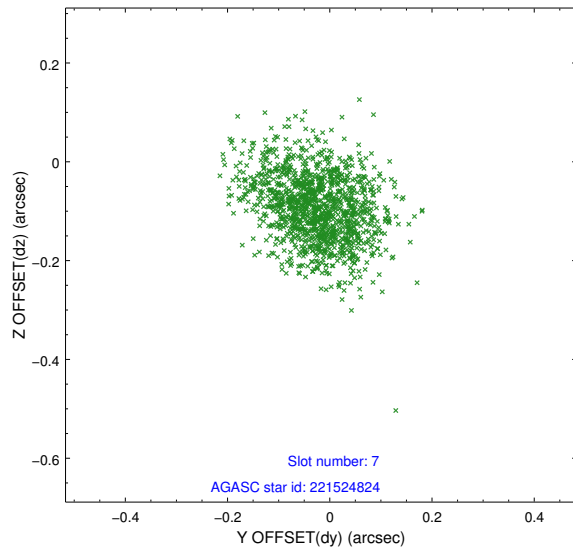
### 2.4.3 Slot 5



## 2.4.4 Slot 6

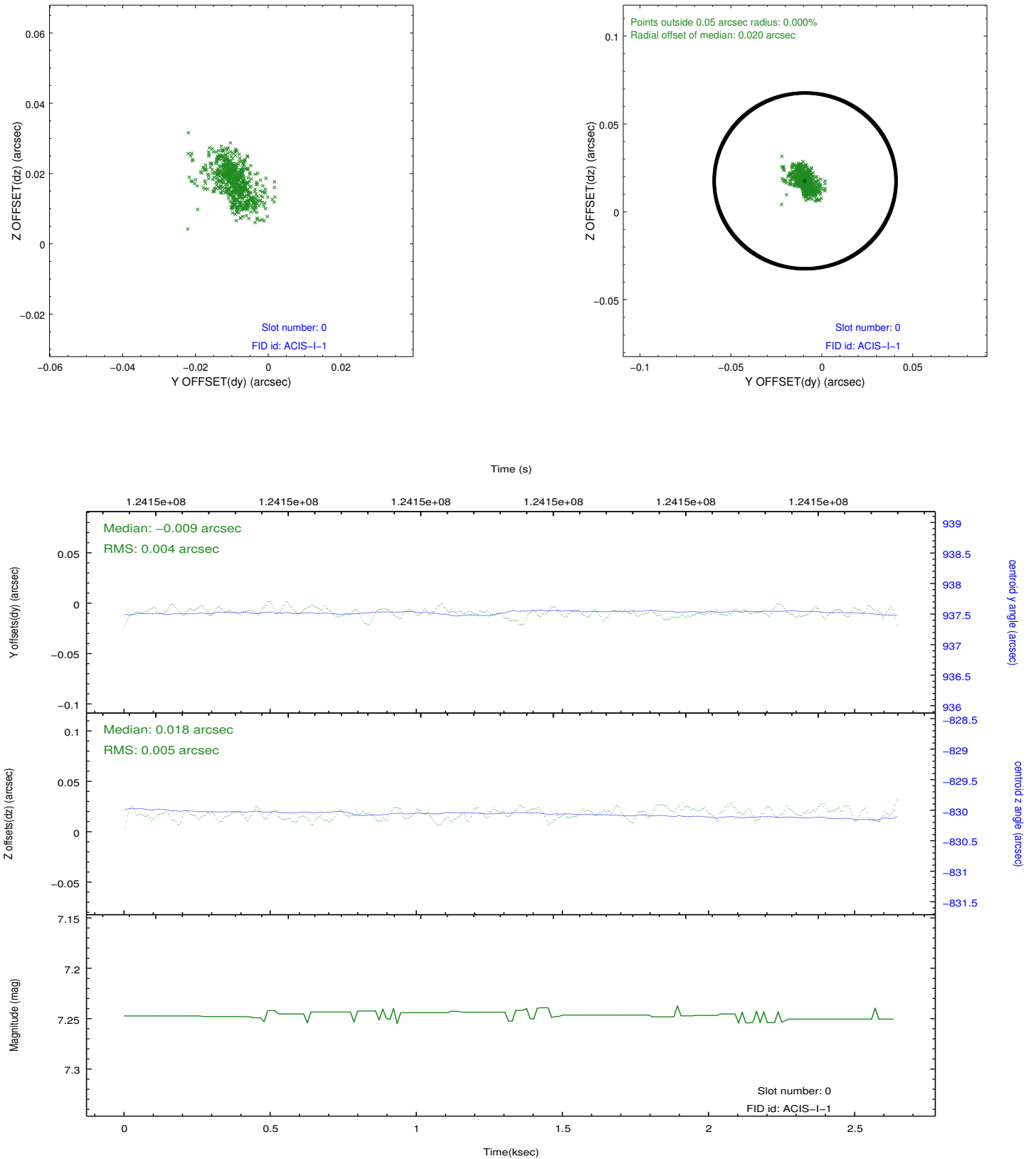


## 2.4.5 Slot 7

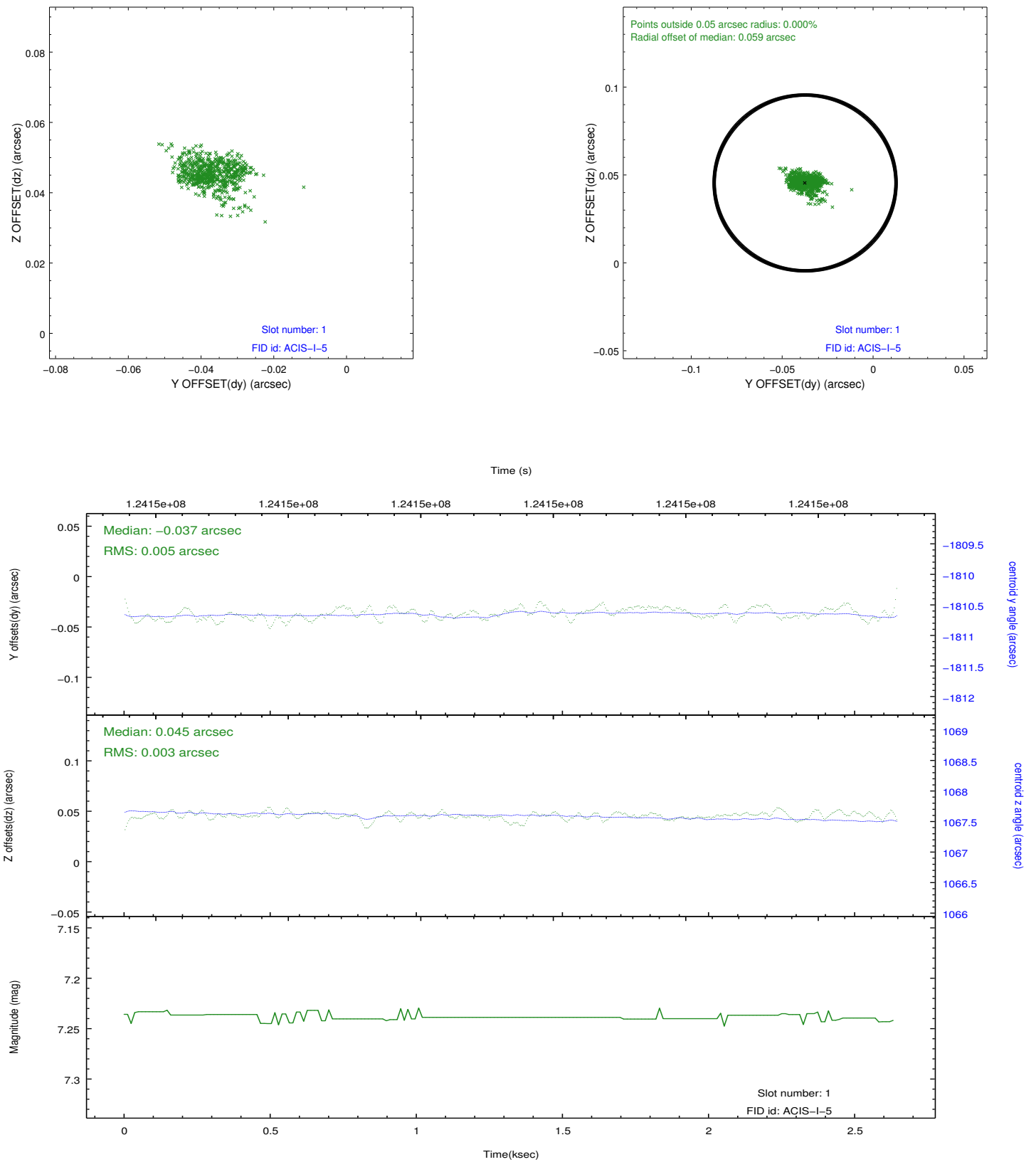


## 2.5 FID Slots

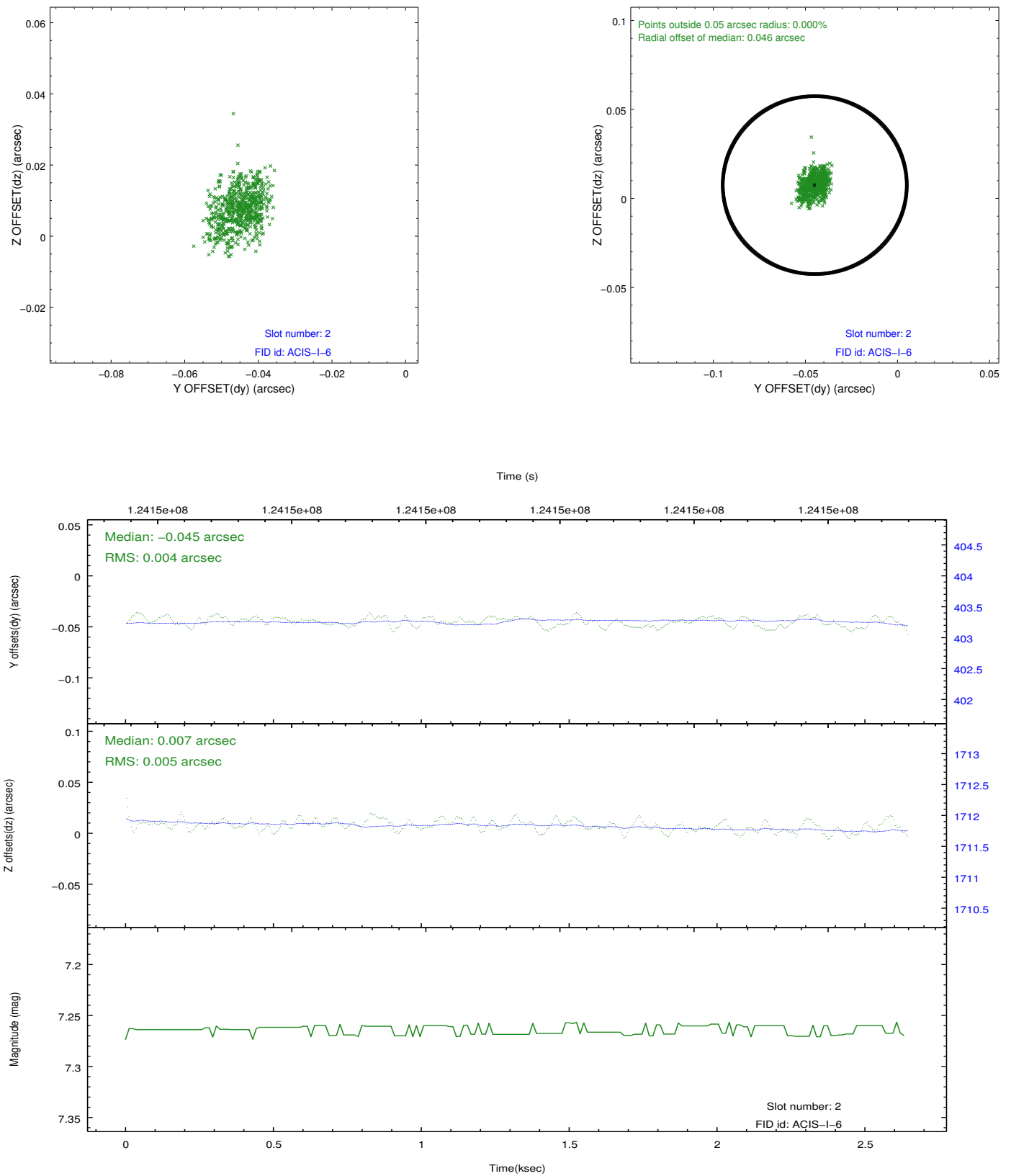
### 2.5.1 Slot 0



## 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)	2012.09.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.638

### A.2 Comments