

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2144 - L2 Version 3  
Chandra X-Ray Center

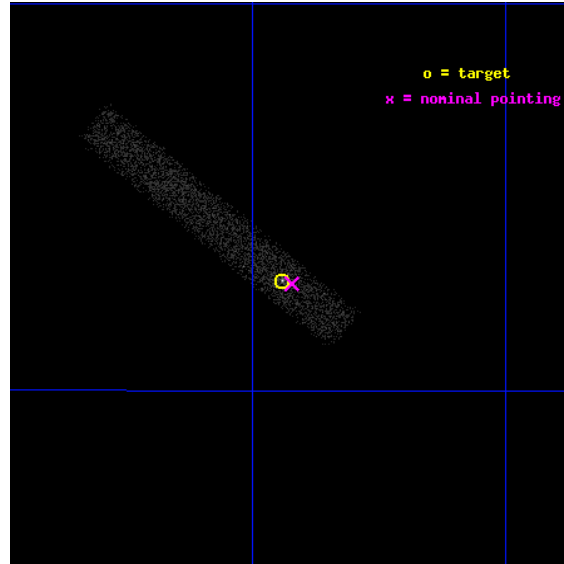
L2 Processing Date : Sep 20 2012

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# 1 Front

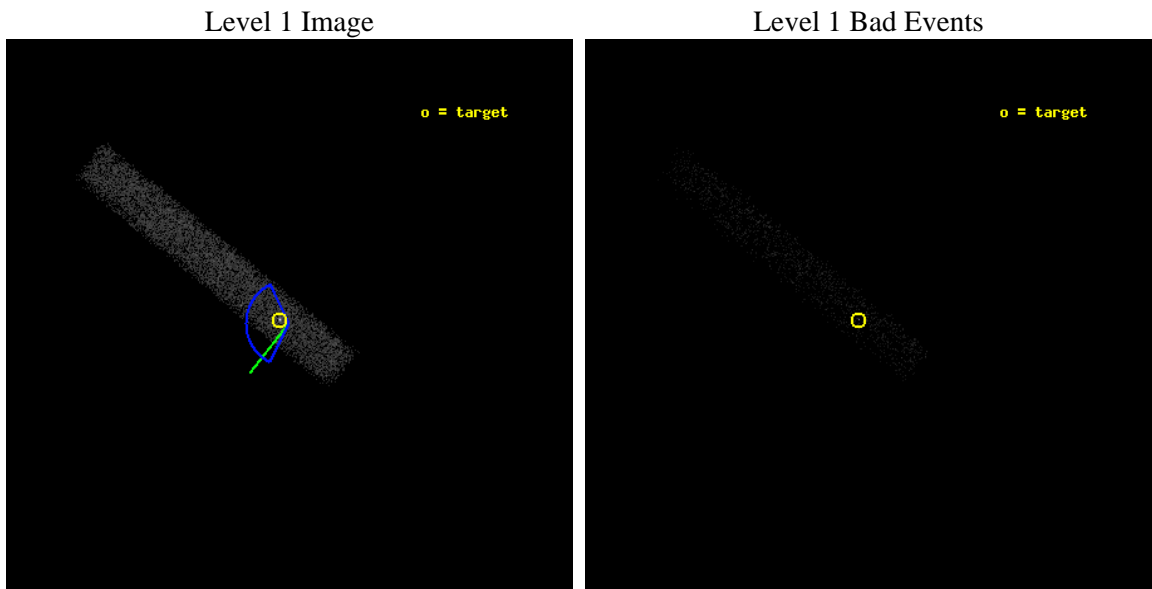
seq_num	700334	Sequence number
obs_id	2144	Observation id
title	AN UNBIASED SURVEY OF X-RAY AND OPTICAL EMISSION FROM EXTENDED RADIO JETS IN AGN	Proposal title
observer	Dr. Rita Sambruna	Principal investigator
object	1749+279	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.985417	Observer's specified target RA [deg]
dec_targ	27.880556	Observer's specified target Dec [deg]
ra_nom	265.98057048682	Nominal RA [deg]
dec_nom	27.879234051766	Nominal Dec [deg]
roll_nom	219.34986045781	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9807.9591061622	Sum of GTIs [s]
livetime	8895.3012027591	Livetime [s]
ontime7	9807.9591061622	Sum of GTIs [s]
l2events	7650	Number of level 2 events



## 2 OBI

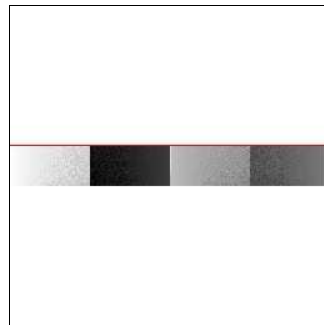
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9807.9591061622	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime7	9807.9591061622	Sum of GTIs [s]
date	2012-09-20T19:45:41	Date and time of file creation	l1events	14787	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

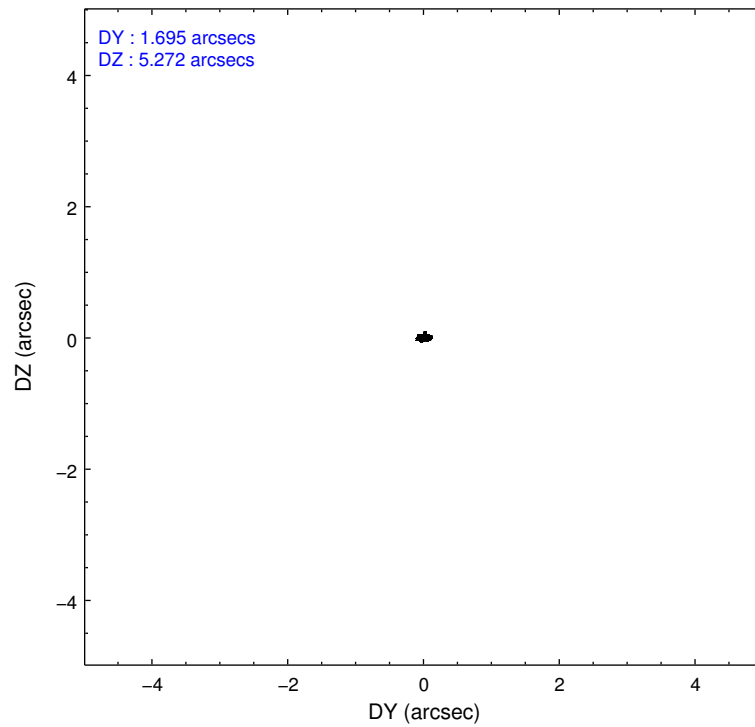
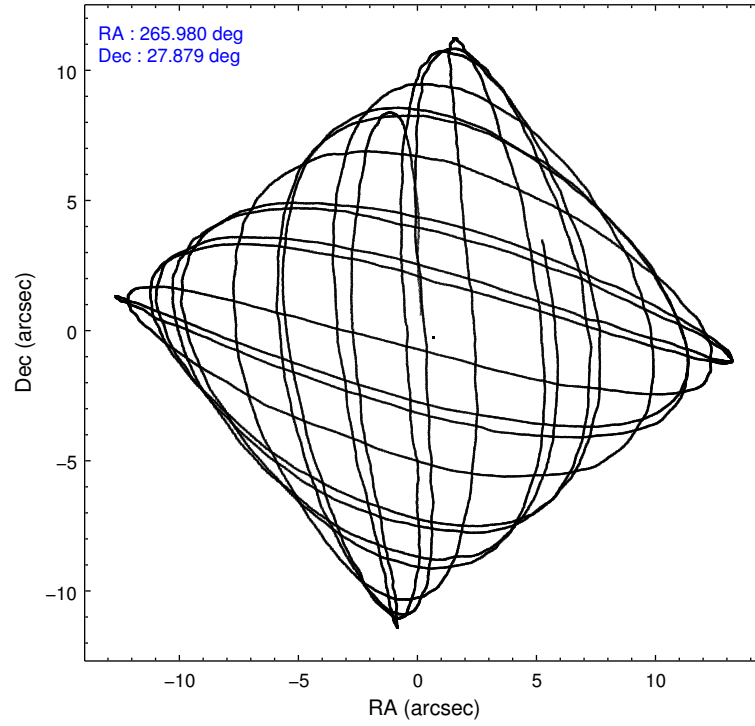
	<b>ccd 7</b>
level 1 events	14787
rejected events	6794
rejected %	45%

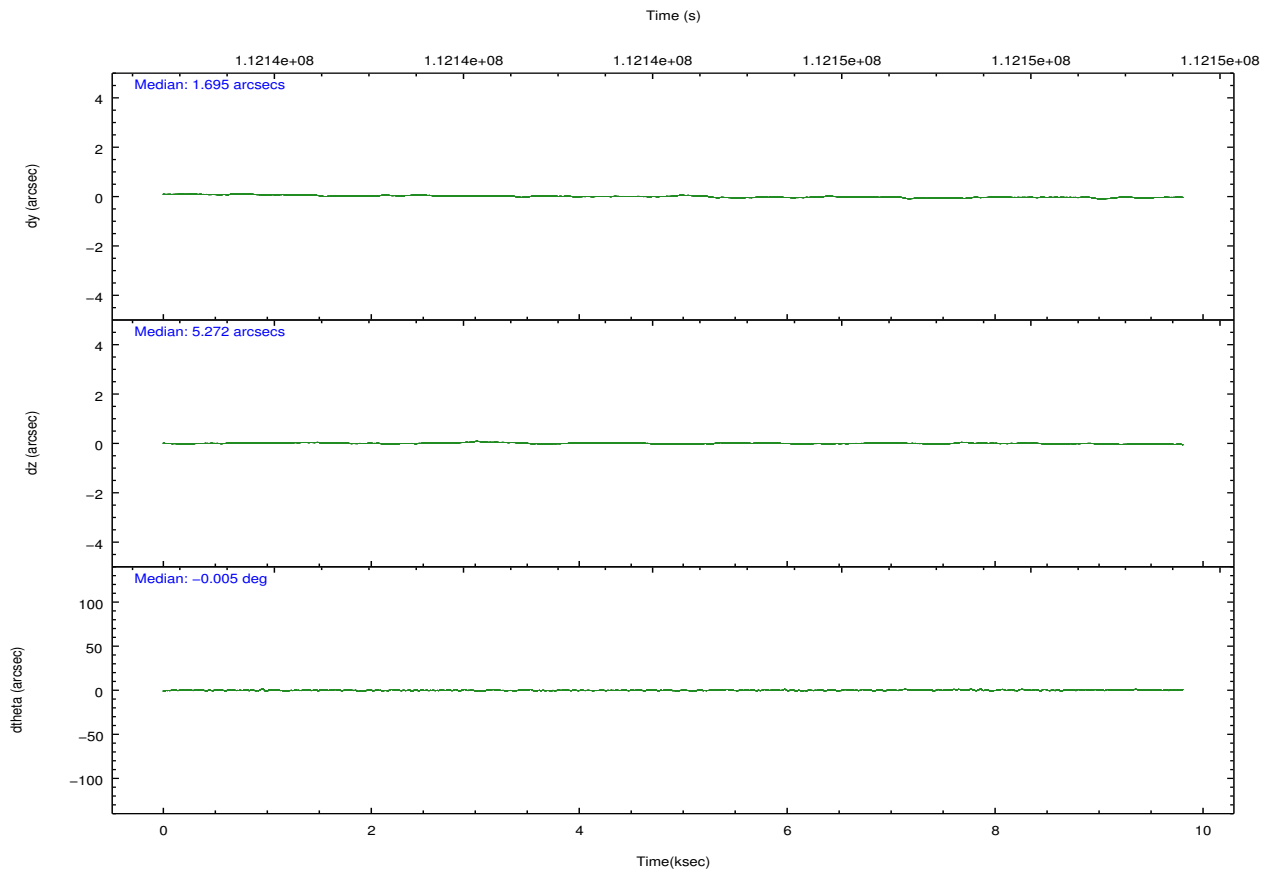
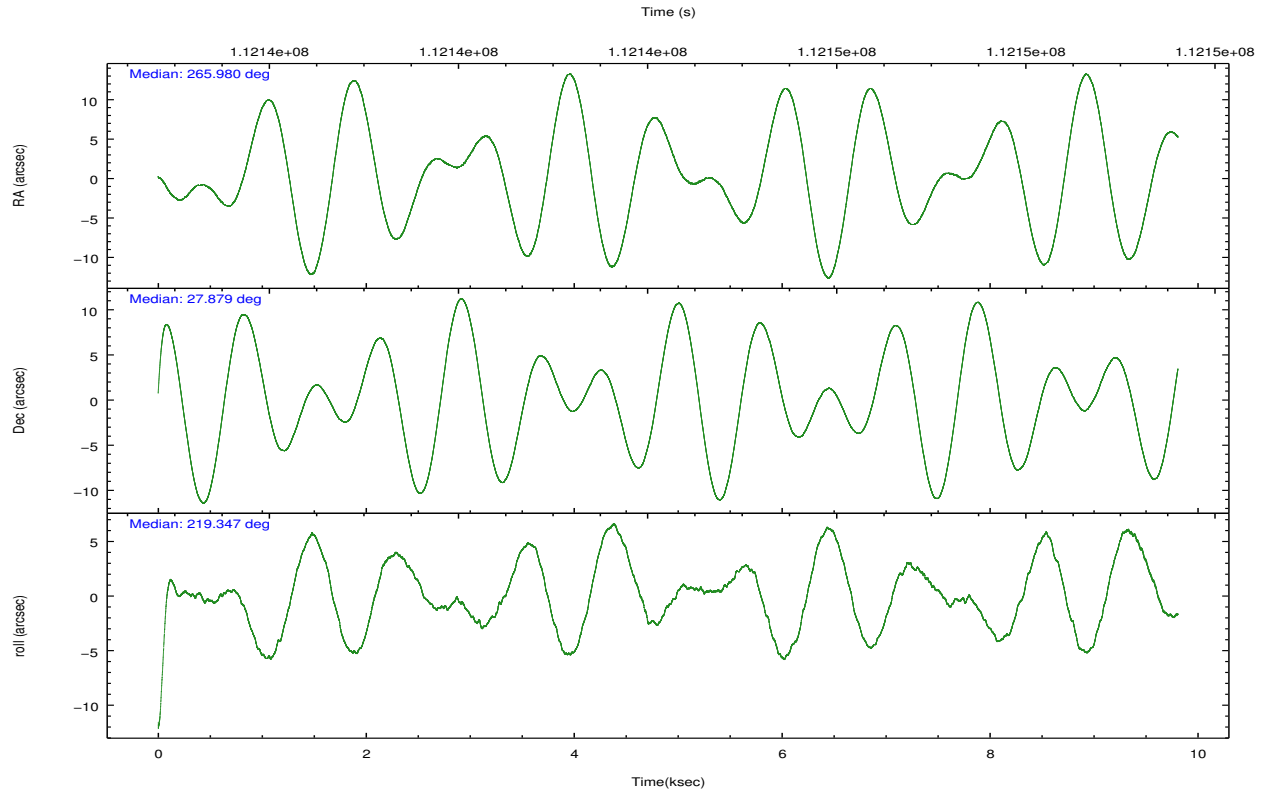
	<b>ccd 7</b>
grade 0 events	1488
	10%
grade 1 events	30
	0%
grade 2 events	1765
	11%
grade 3 events	1034
	6%
grade 4 events	1037
	7%
grade 5 events	1147
	7%
grade 6 events	2999
	20%
grade 7 events	5287
	35%

## 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	265.991168	265.9805704868197	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	27.904918	27.87923405176608	Subarray start row	449	449
[deg] Pointing Roll	219.188287	219.3498604578057	Subarray row count	128	128
[deg] Roll angle	270.000000	270.000000	Alternating exposures requested	N	N
[deg] Roll tolerance	64.000000	64.000000	[s] Primary exposure time	0.000000	0.4
Roll constraint allows 180D rotation	N	N			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	112139619.184000	112138601.18979			
Observation start date	2001-07-21T21:52:35	2001-07-21T21:36:41			
[s] Observation end time (MET)	112149119.184000	112150190.35274			
Observation end date	2001-07-22T00:30:55	2001-07-22T00:49:50			
Read mode	TIMED	TIMED			

## 2.3 Aspect



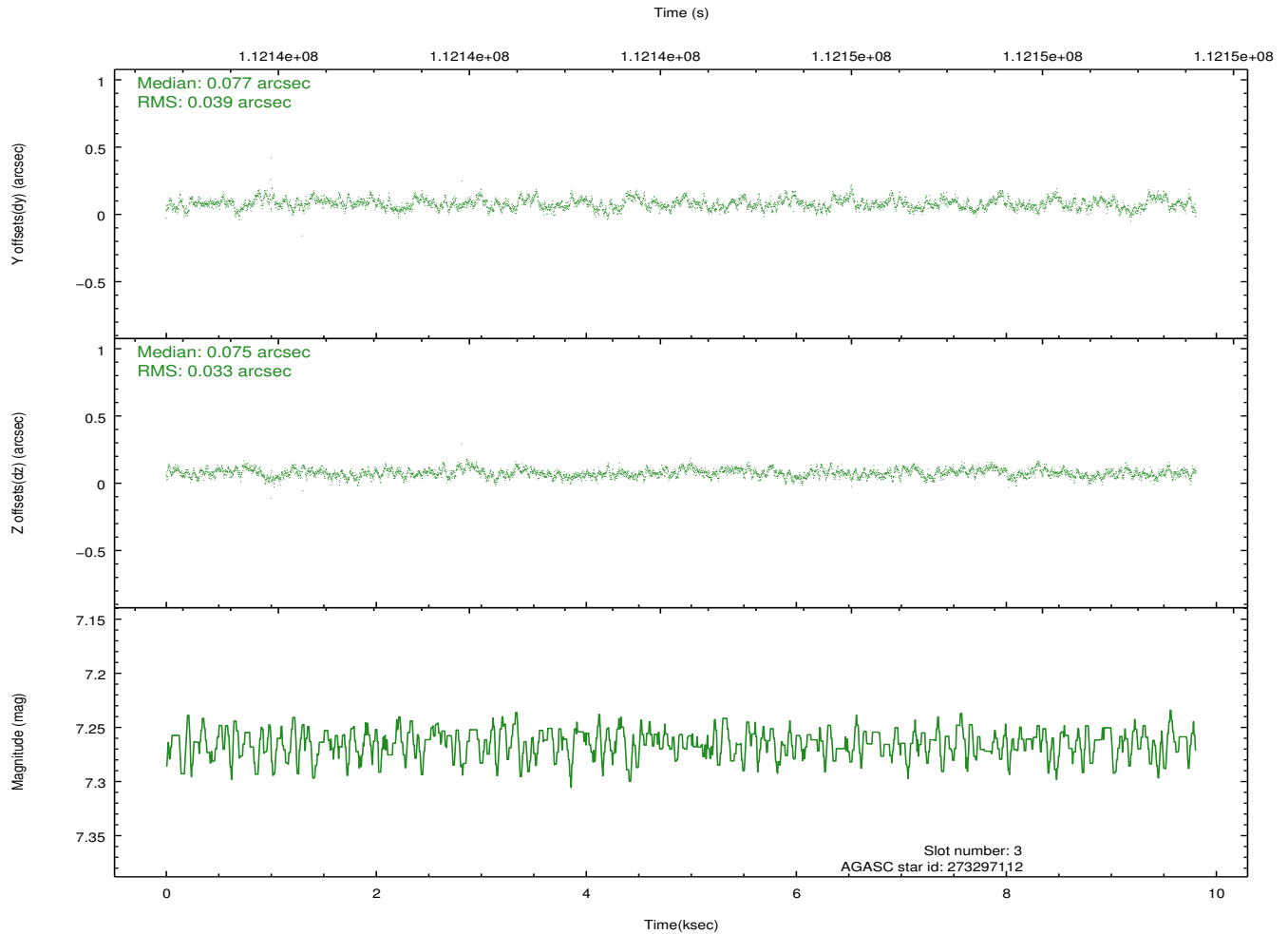
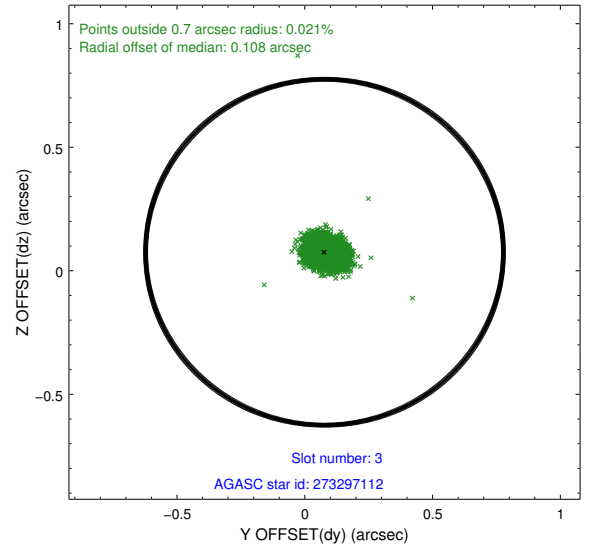
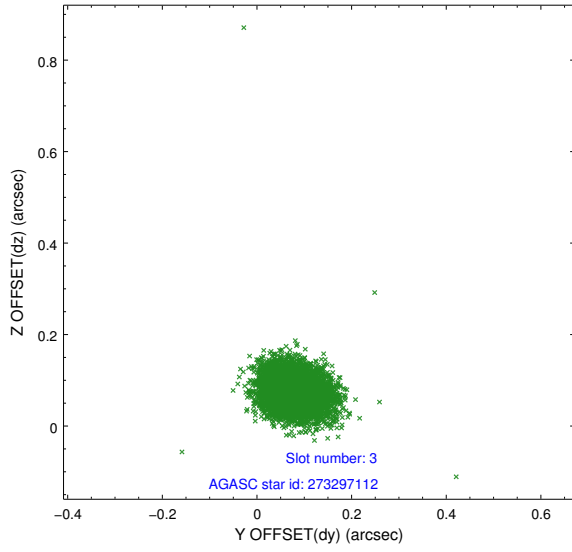


### Slot Statistics

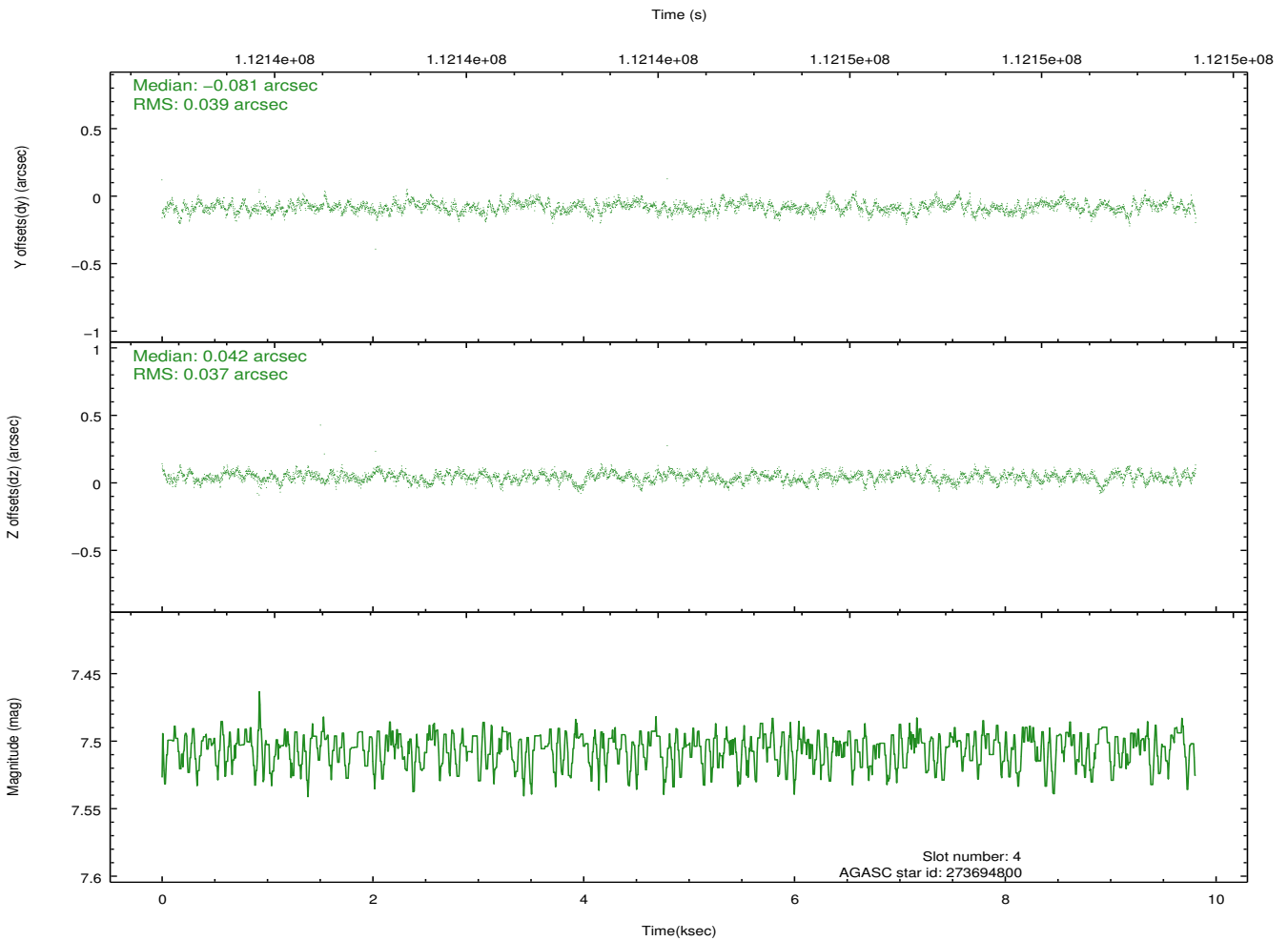
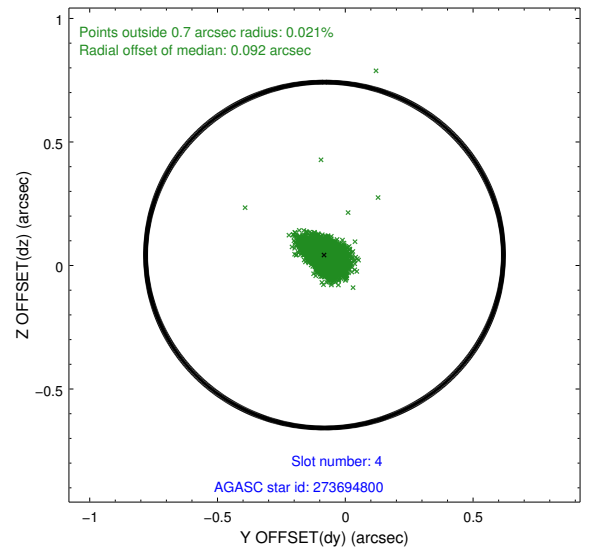
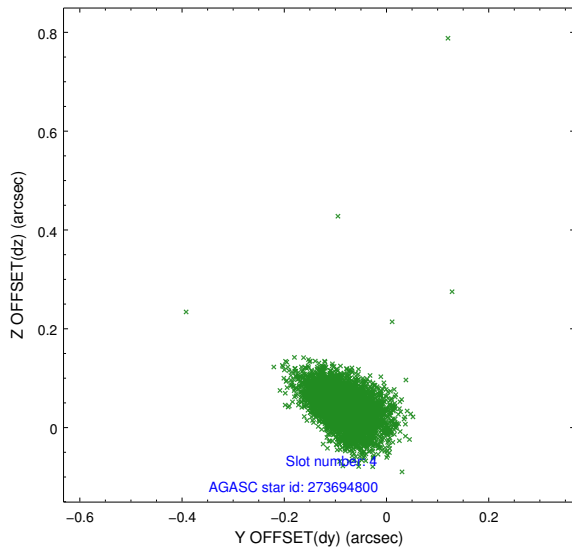
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2393	-0.021	-0.017	0.005	0.010	0.000000	0.000000	-754.29	-1726.42
1	FID	ACIS-S-4	7.20	2388	-0.026	0.016	0.006	0.011	0.000000	0.000000	2158.70	181.58
2	FID	ACIS-S-6	7.36	2392	0.018	0.007	0.007	0.012	0.000000	0.000000	408.39	819.56
3	GUIDE	273297112	7.26	4784	0.077	0.075	0.052	0.084	265.863574	27.022833	2323.66	2203.20
4	GUIDE	273694800	7.50	4785	-0.081	0.042	0.055	0.093	265.398781	28.212894	753.70	-2049.39
5	GUIDE	273816392	8.45	4784	-0.025	-0.079	0.064	0.107	266.611006	28.179939	-2153.11	471.36
6	GUIDE	273287600	8.45	4786	-0.014	0.060	0.067	0.108	266.723245	28.094759	-2238.73	934.39
7	GUIDE	273287184	8.71	4782	0.038	-0.095	0.061	0.102	266.241947	28.006423	-849.55	220.23

## 2.4 Star Slots

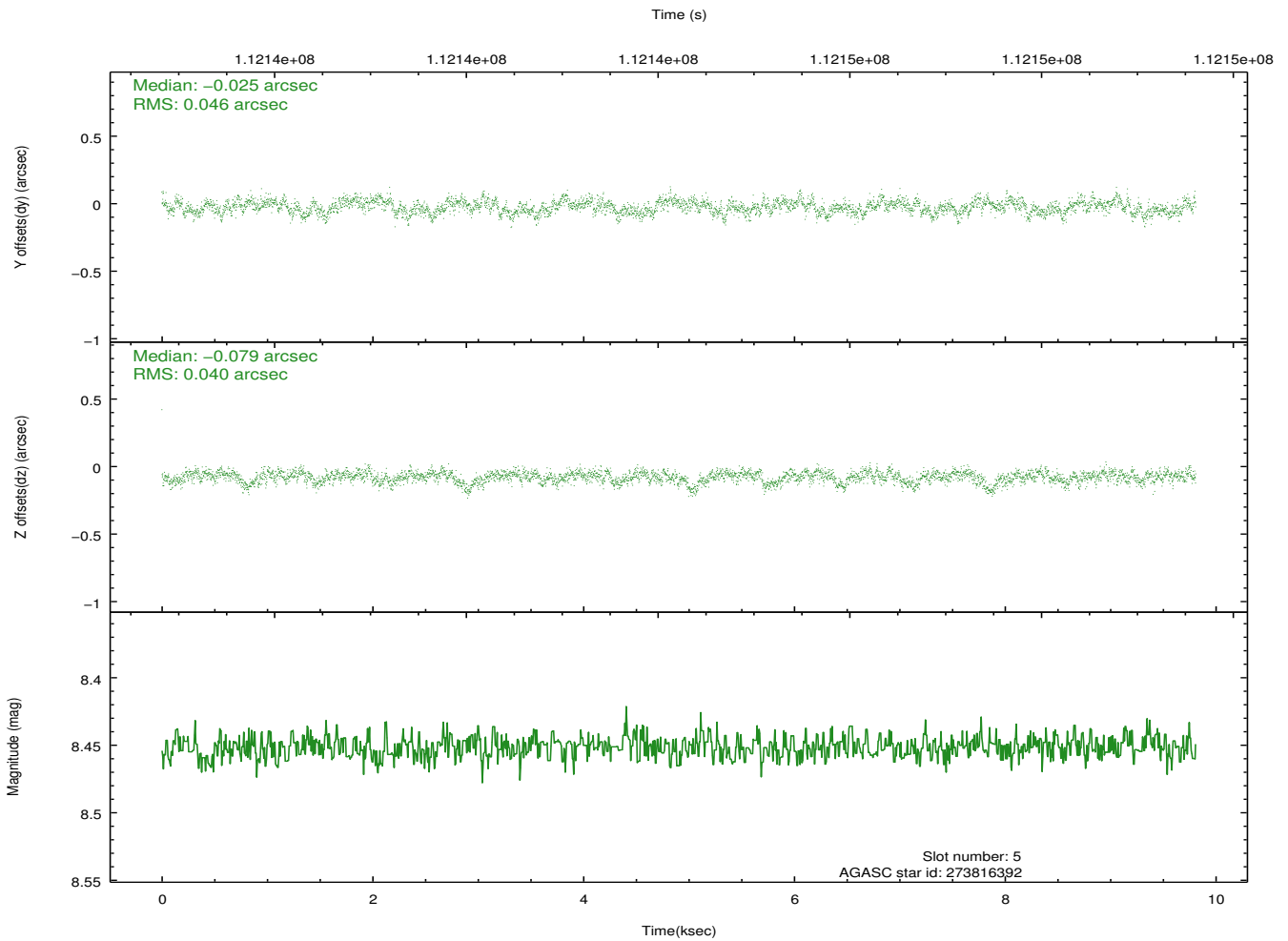
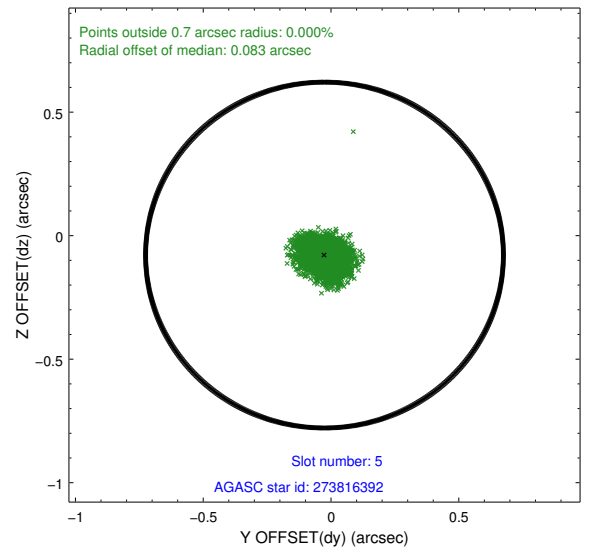
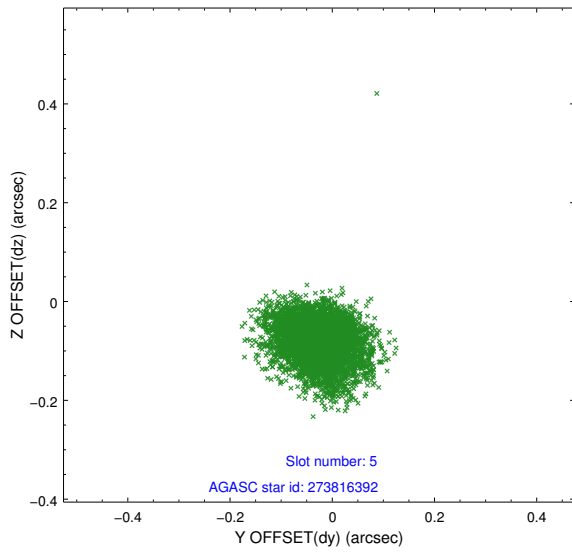
### 2.4.1 Slot 3



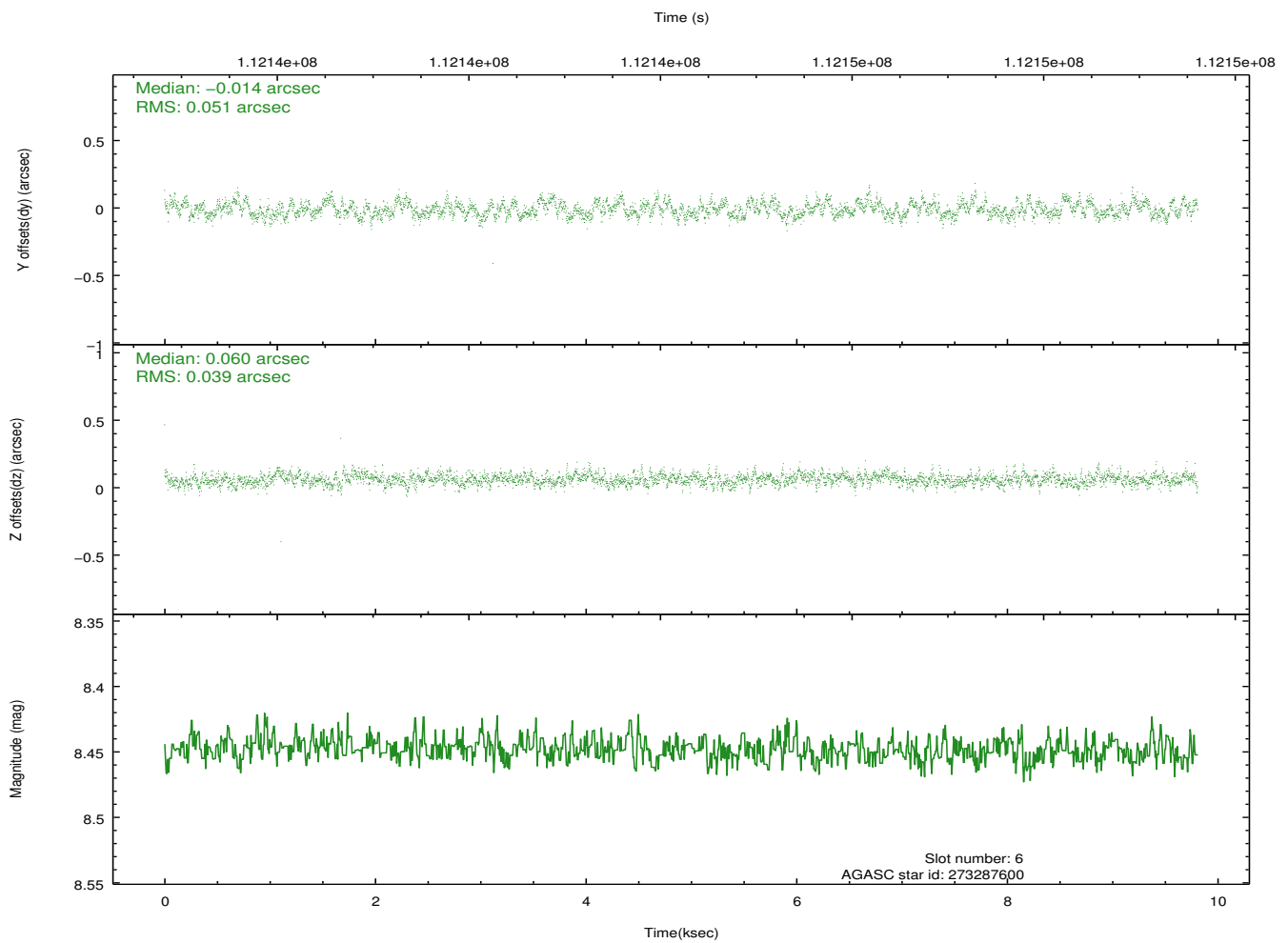
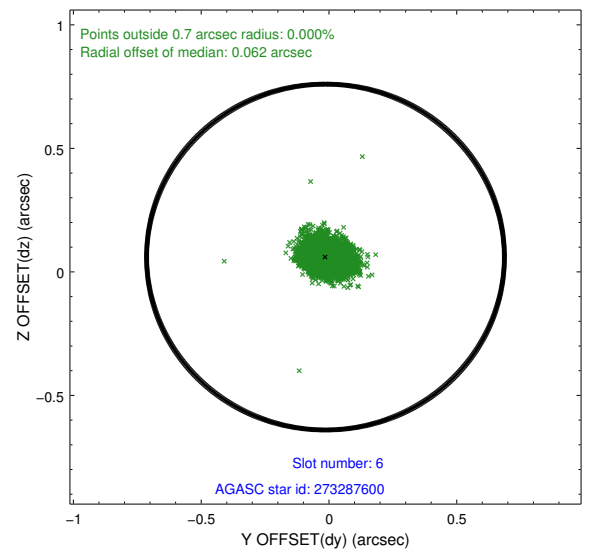
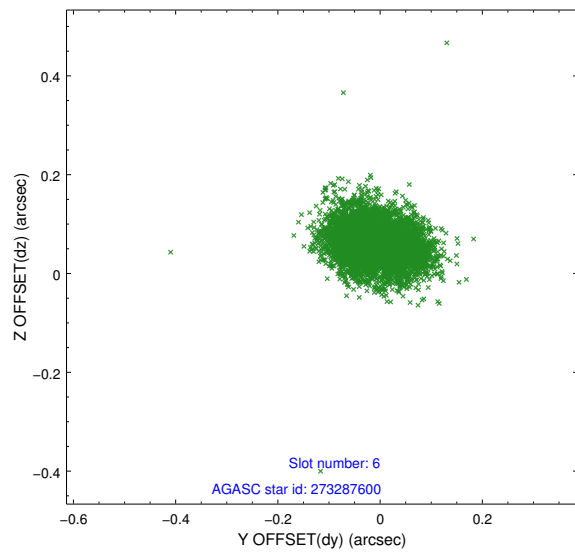
### 2.4.2 Slot 4



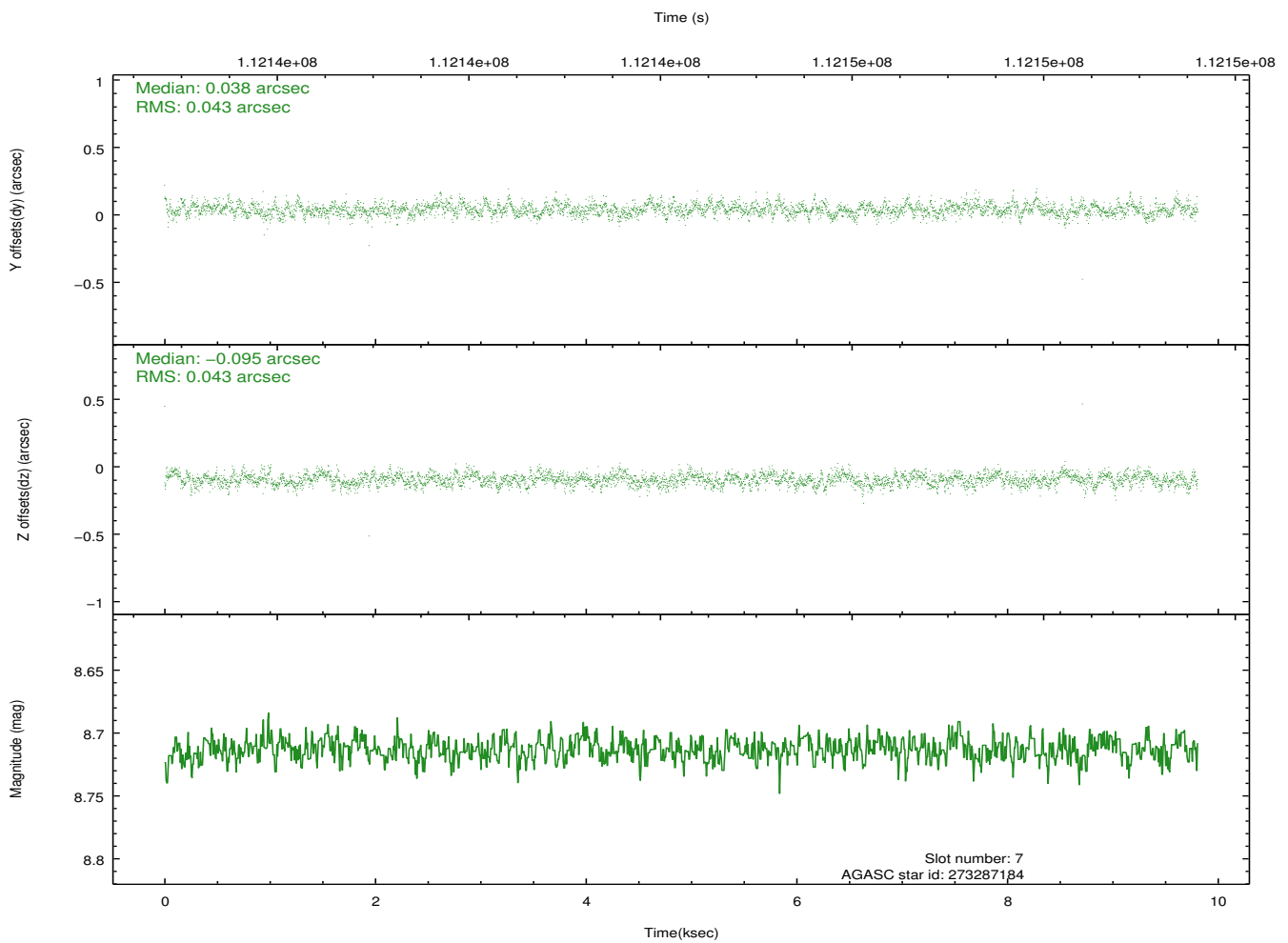
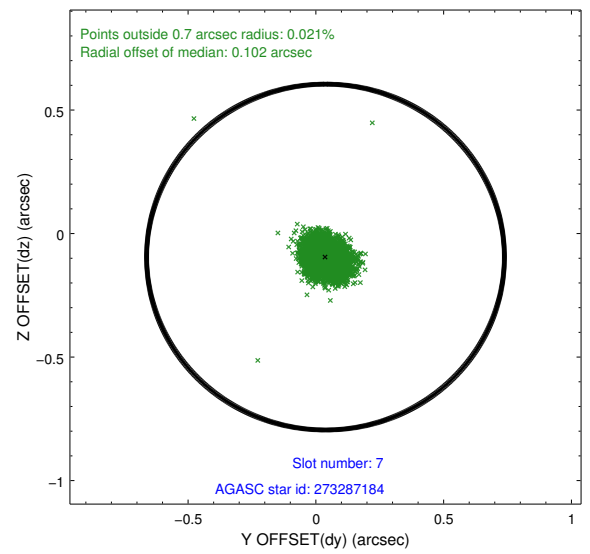
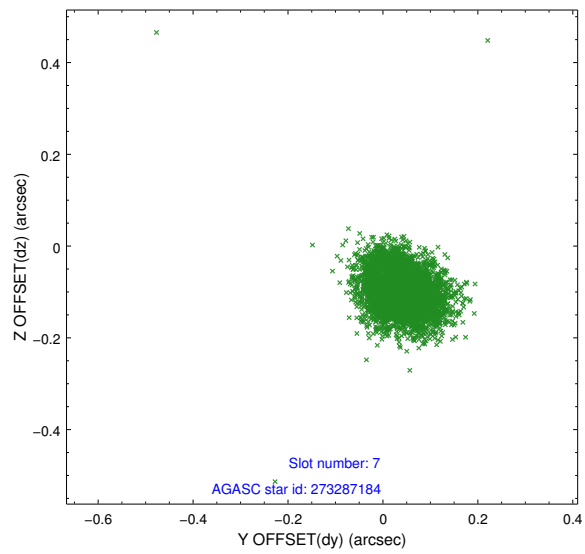
### 2.4.3 Slot 5



## 2.4.4 Slot 6

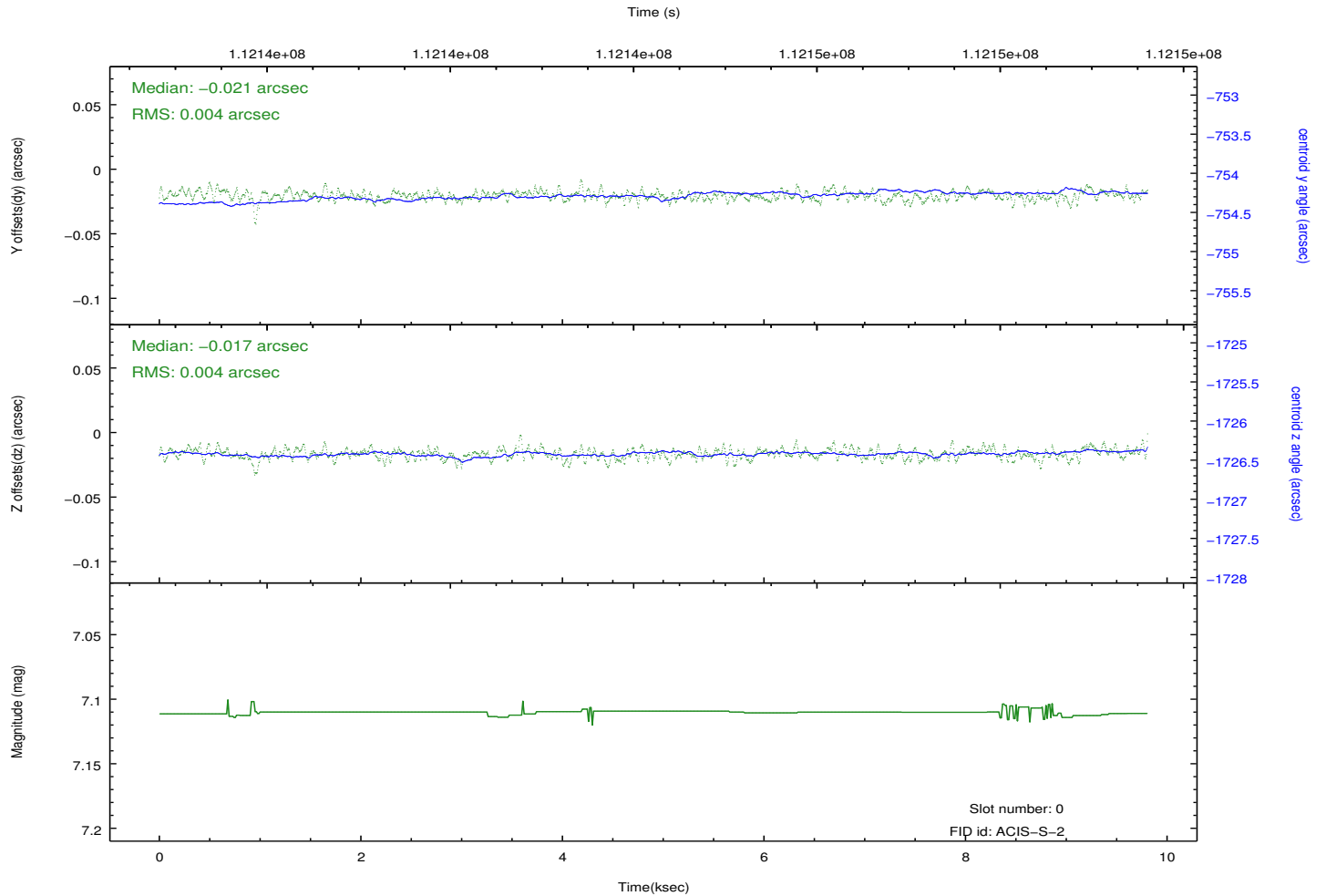
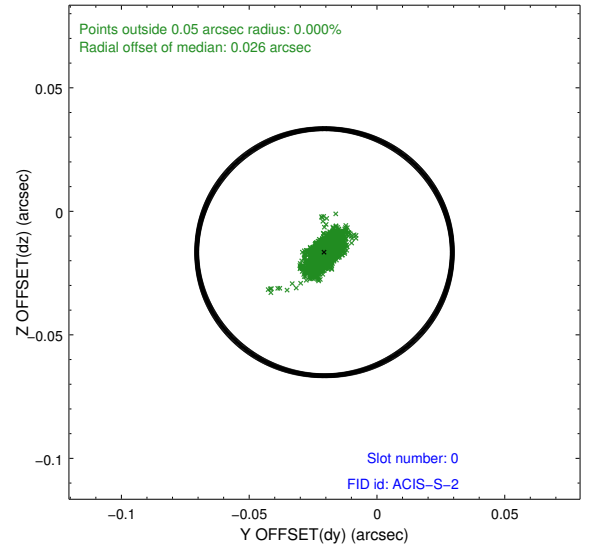
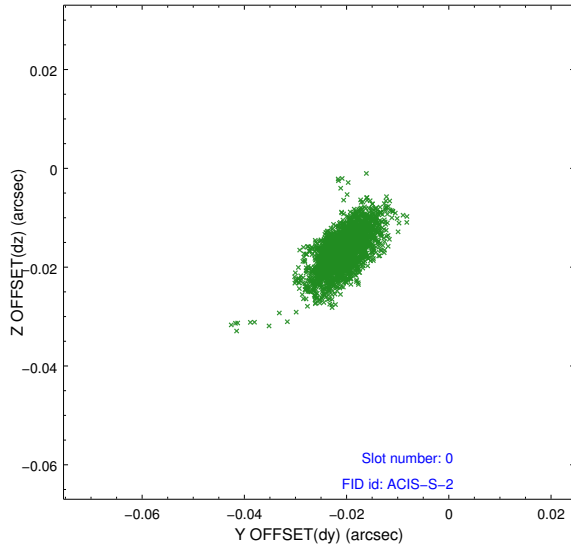


## 2.4.5 Slot 7

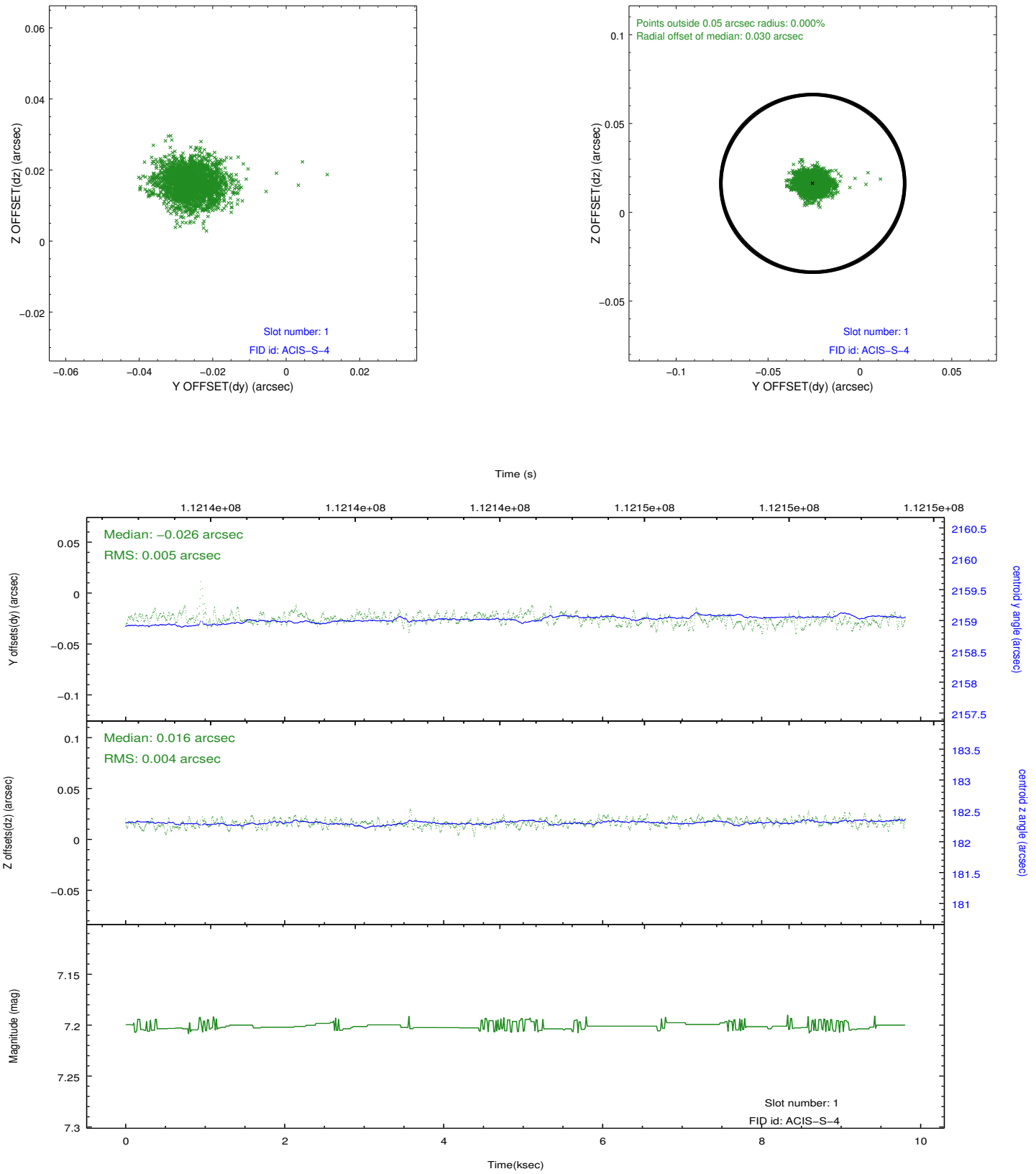


## 2.5 FID Slots

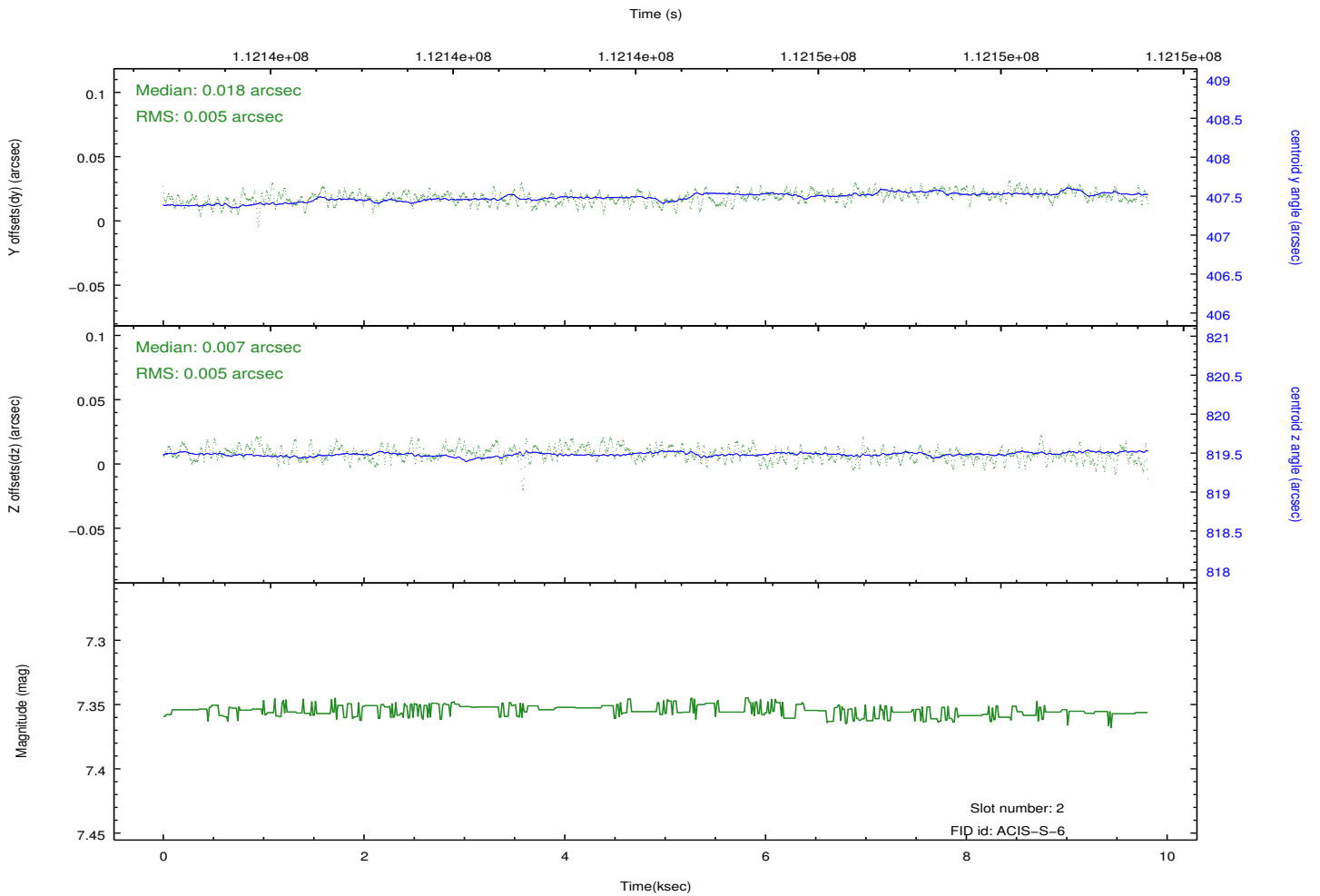
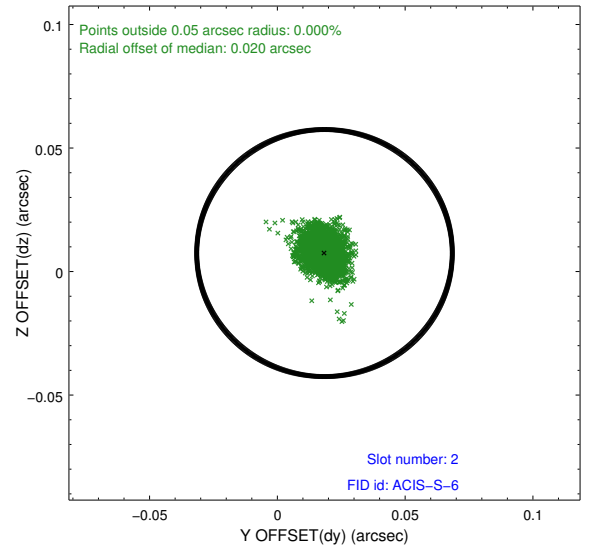
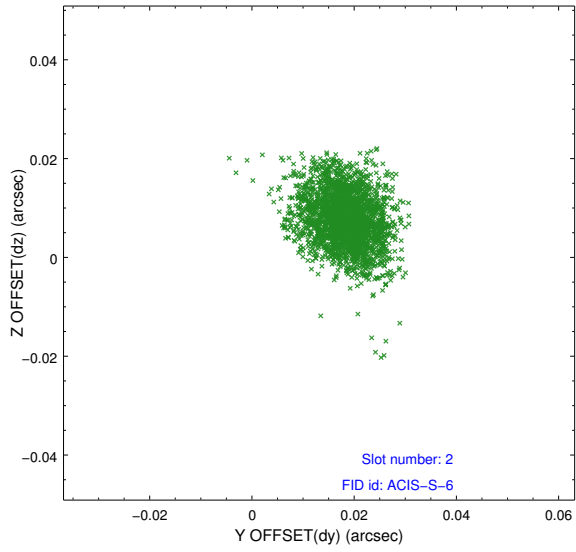
### 2.5.1 Slot 0



## 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)	2012.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.807

## A.2 Comments

Roll preference met.