

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4906 - L2 Version 3  
Chandra X-Ray Center

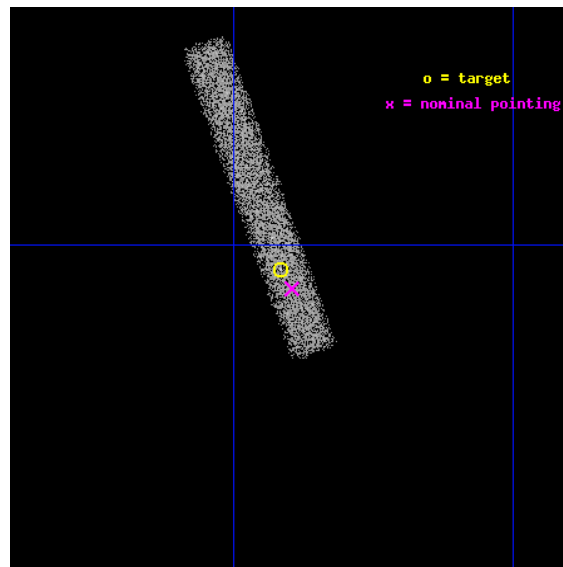
L2 Processing Date : Dec 2 2012

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# 1 Front

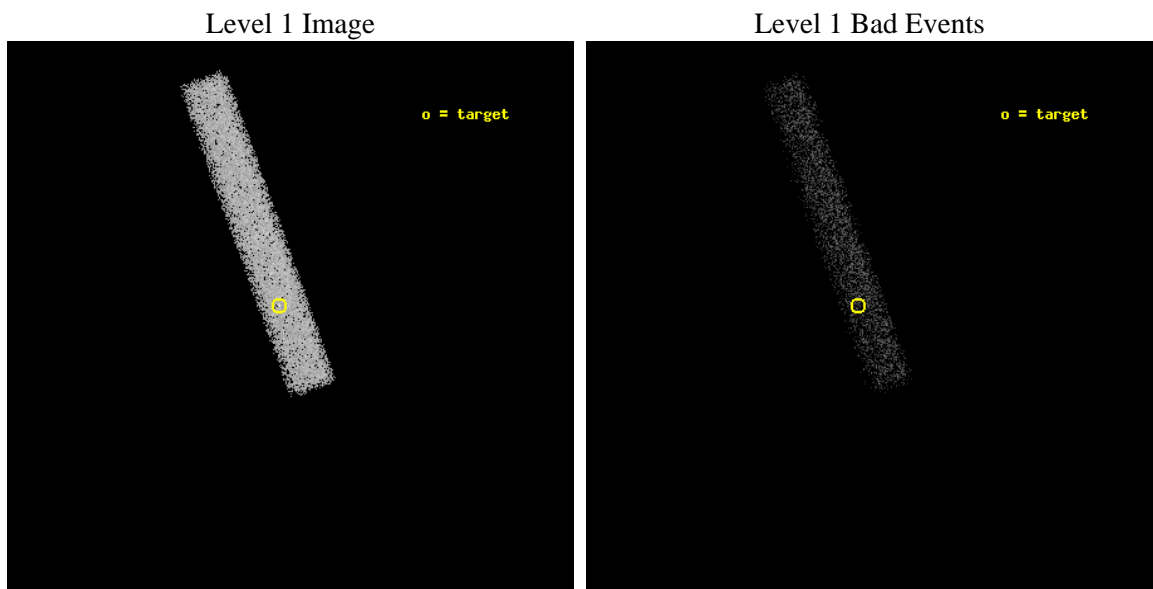
seq_num	700987	Sequence number
obs_id	4906	Observation id
title	The X-ray Spectra of Red Quasars	Proposal title
observer	Dr Mark Lacy	Principal investigator
object	FTM 1004+1229	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	151.10375	Observer's specified target RA [deg]
dec_targ	12.489556	Observer's specified target Dec [deg]
ra_nom	151.09877789409	Nominal RA [deg]
dec_nom	12.481149222333	Nominal Dec [deg]
roll_nom	250.03145922268	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19478.400290221	Sum of GTIs [s]
liveltime	17665.880908962	Livetime [s]
ontime7	19478.400290221	Sum of GTIs [s]
l2events	11204	Number of level 2 events



## 2 OBI

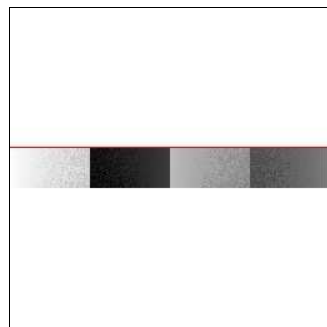
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19314.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	19478.400290221	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime7	19478.400290221	Sum of GTIs [s]
date	2012-12-03T00:45:59	Date and time of file creation	l1events	26717	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

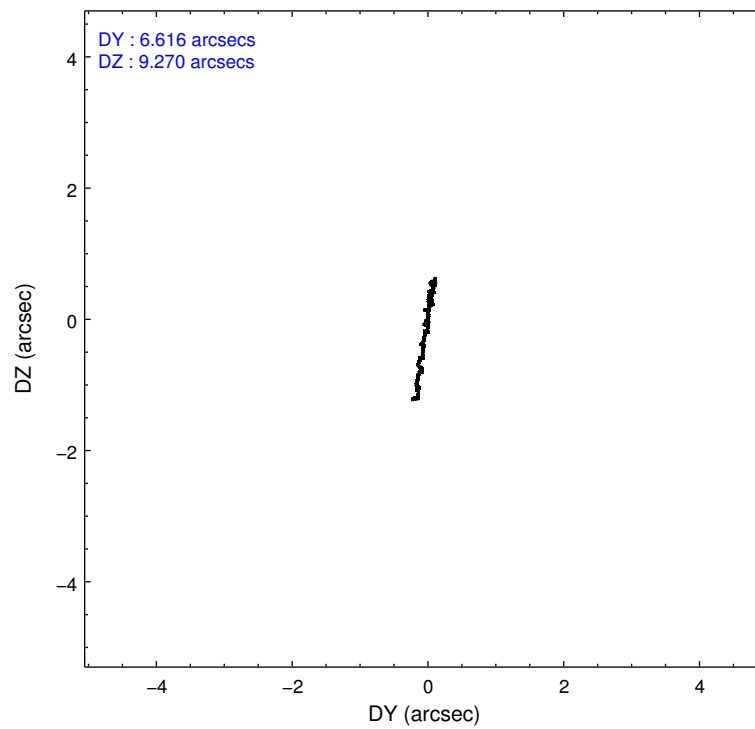
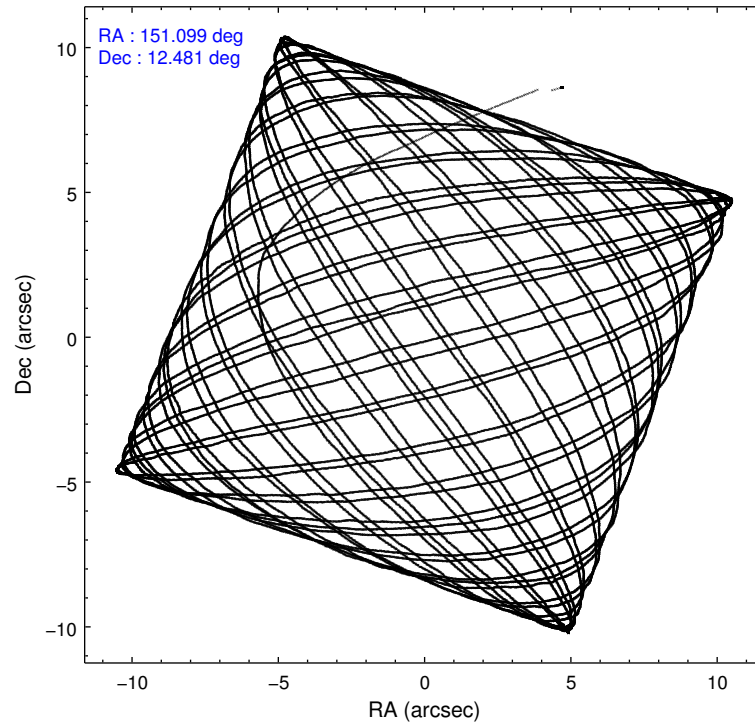
	<b>ccd 7</b>
level 1 events	26717
rejected events	15055
rejected %	56%

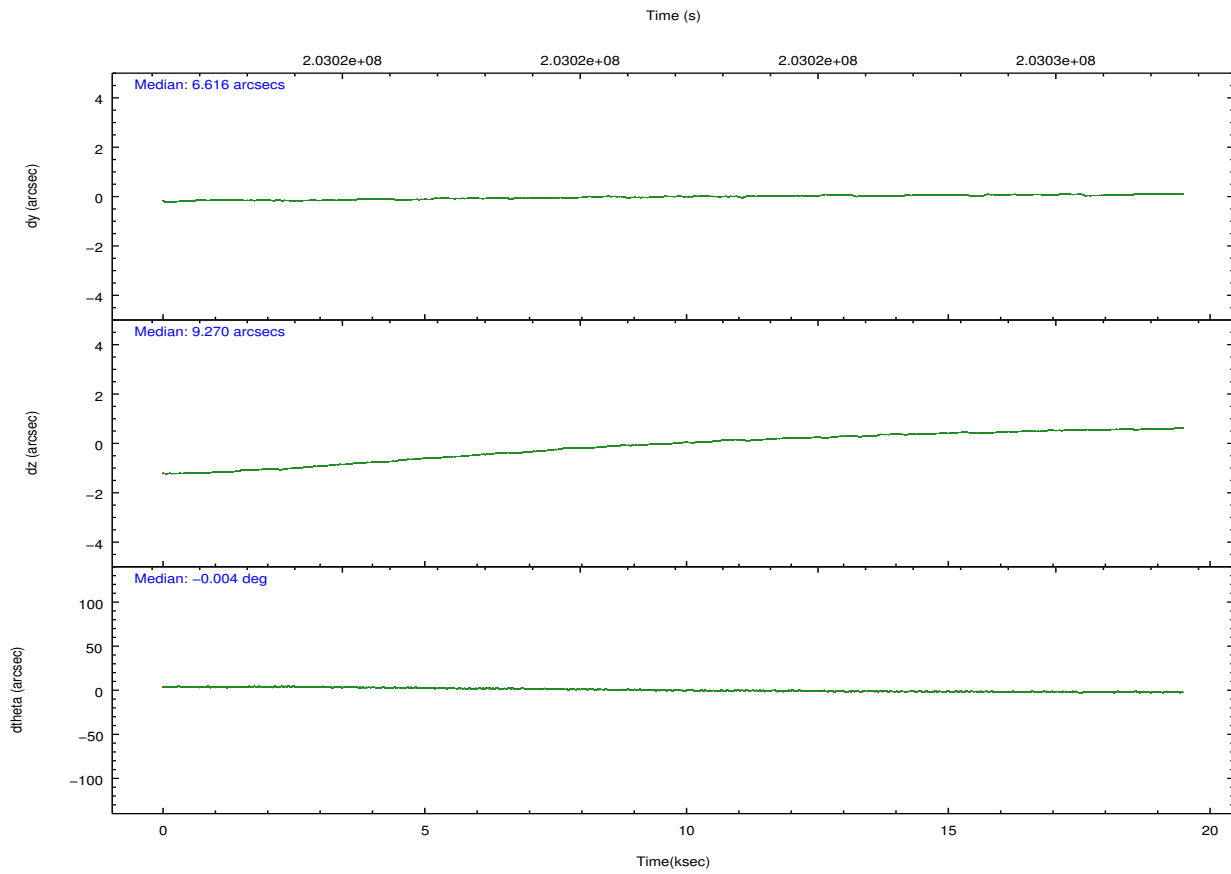
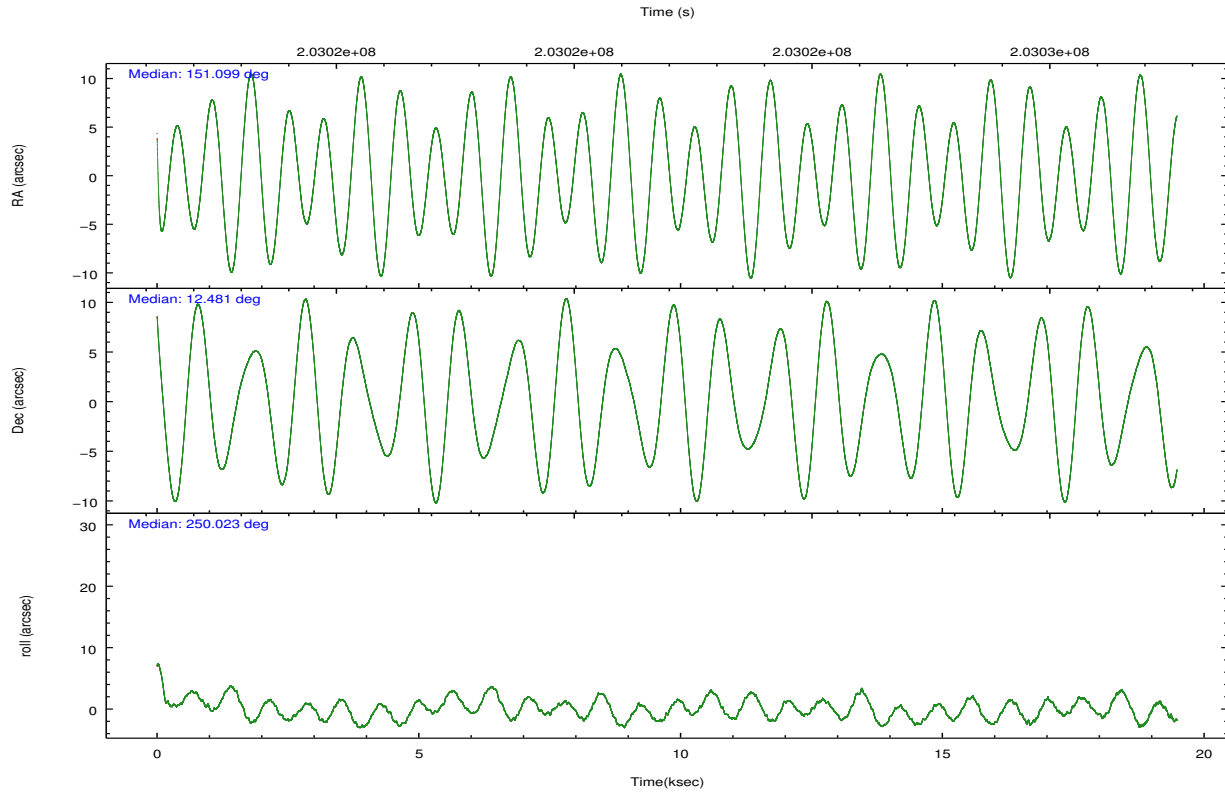
	<b>ccd 7</b>
grade 0 events	1192
	4%
grade 1 events	30
	0%
grade 2 events	2287
	8%
grade 3 events	1598
	5%
grade 4 events	1507
	5%
grade 5 events	2603
	9%
grade 6 events	5562
	20%
grade 7 events	11938
	44%

## 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	151.093561	151.0987778940937	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.507933	12.48114922233342	Subarray start row	449	449
[deg] Pointing Roll	249.875960	250.0314592226819	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)	203012376.184000	203011320.68719			
Observation start date	2004-06-07T16:18:32	2004-06-07T16:02:00			
[s] Observation end time (MET)	203031690.184000	203033382.27566			
Observation end date	2004-06-07T21:40:26	2004-06-07T22:09:42			
Read mode	TIMED	TIMED			

## 2.3 Aspect



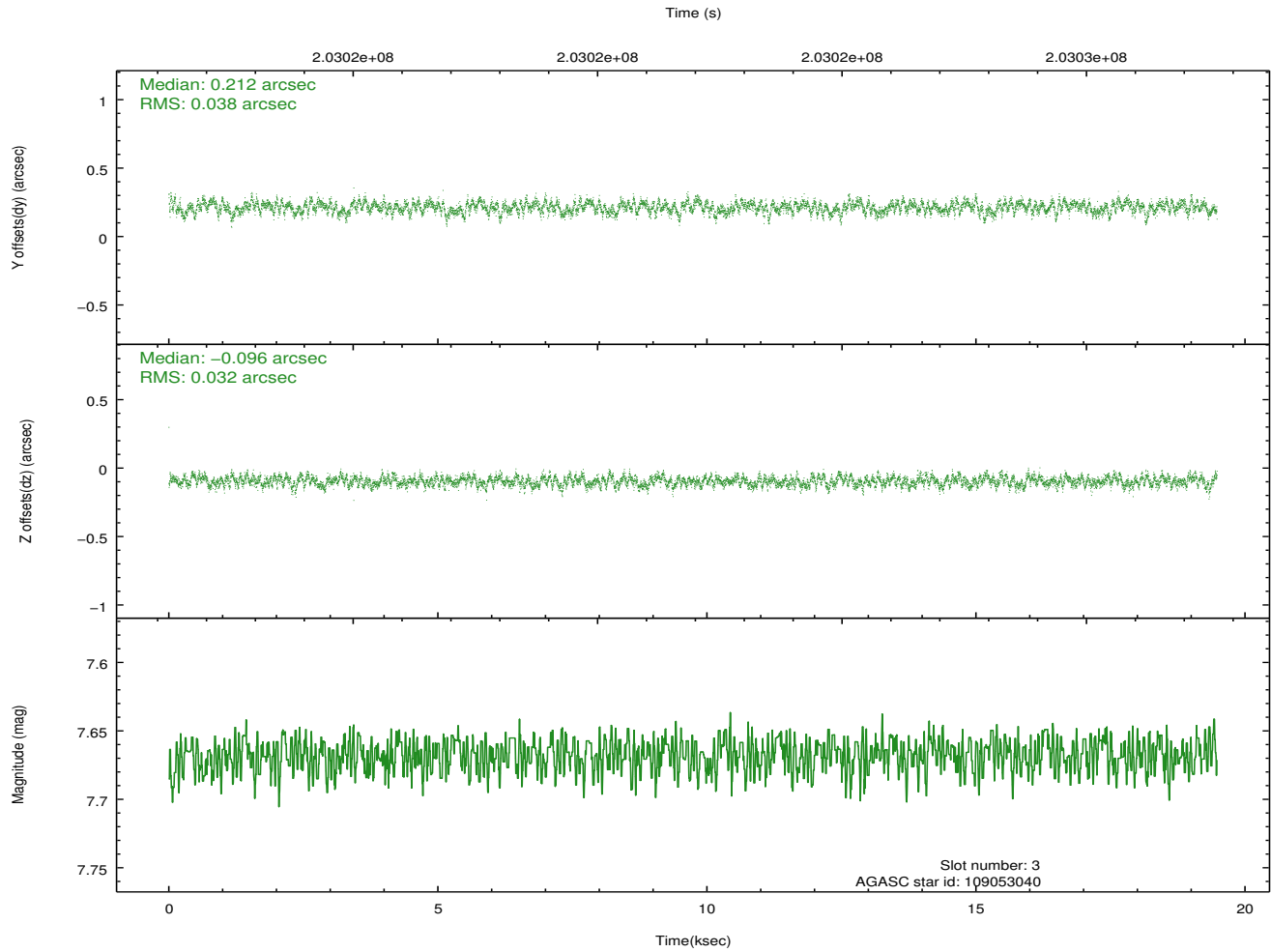
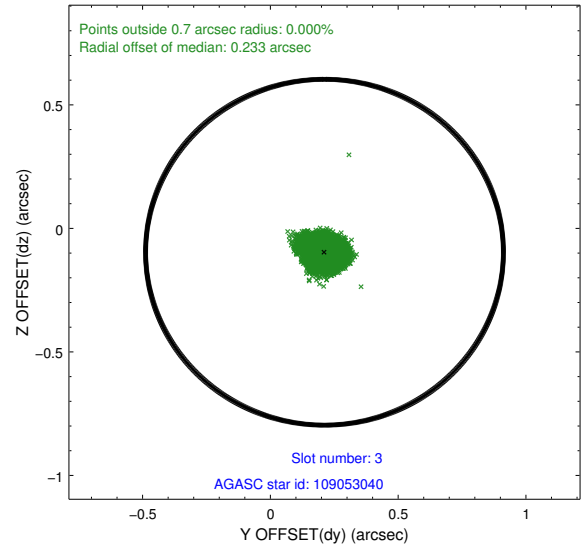
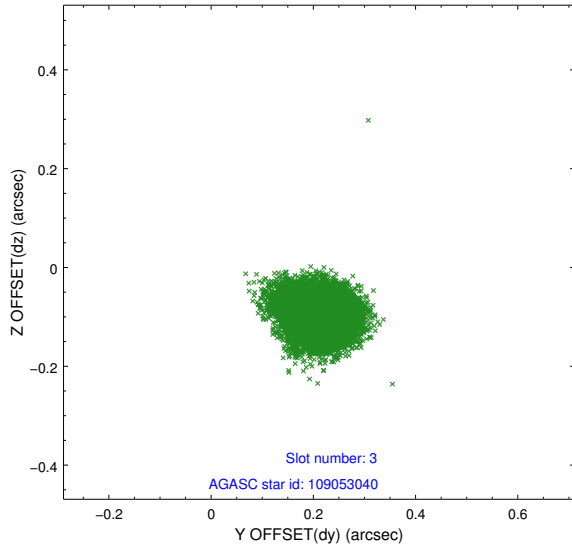


### Slot Statistics

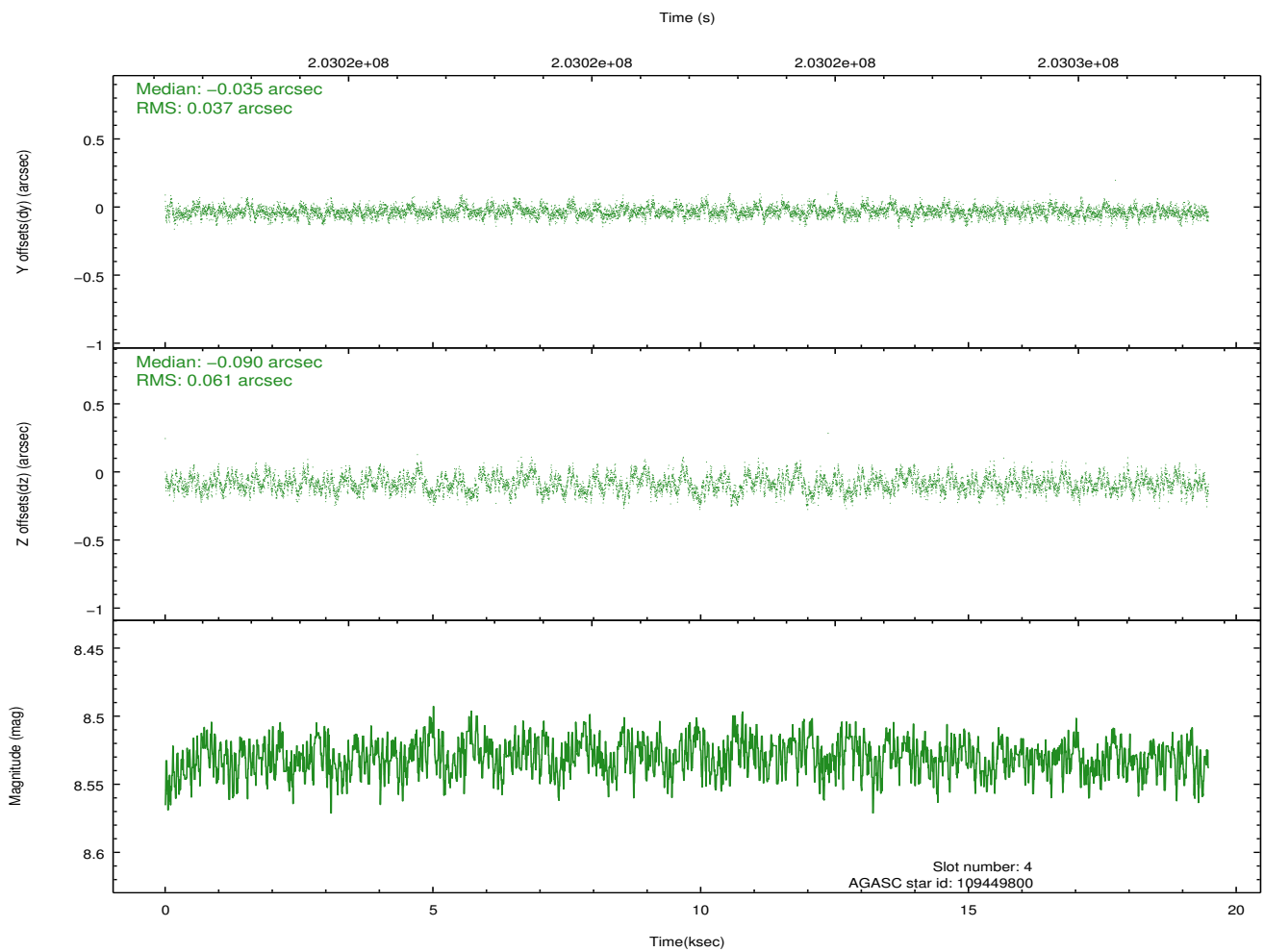
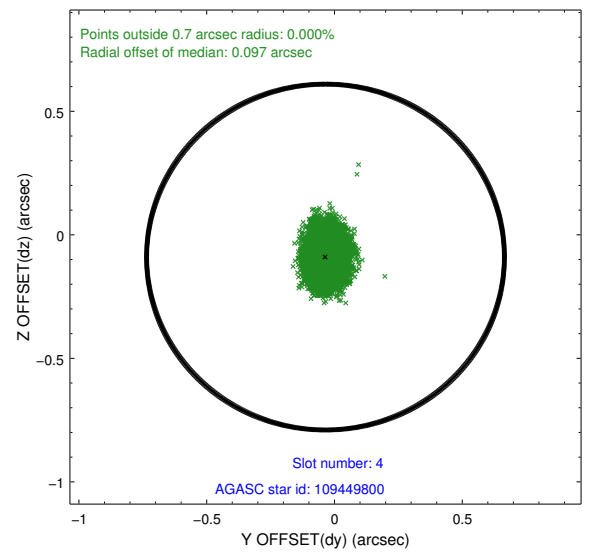
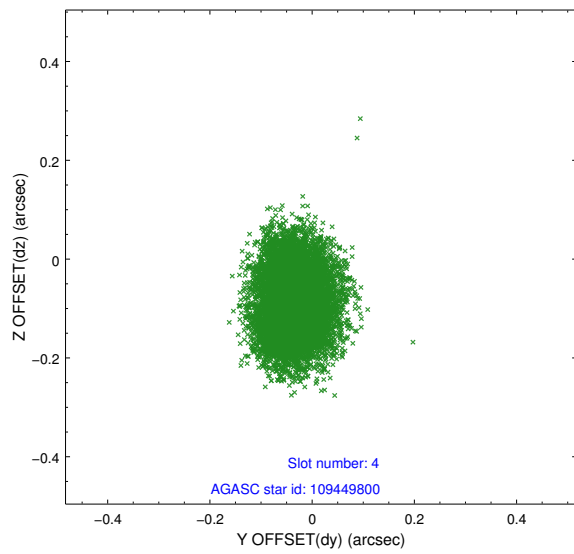
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4752	-0.048	-0.041	0.015	0.022	0.000000	0.000000	-759.37	-1730.35
1	FID	ACIS-S-4	7.20	4752	0.086	0.034	0.010	0.022	0.000000	0.000000	2153.94	178.02
2	FID	ACIS-S-5	7.23	4751	-0.069	0.016	0.012	0.018	0.000000	0.000000	-1811.99	171.88
3	GUIDE	109053040	7.67	9503	0.212	-0.096	0.052	0.084	150.482956	12.245797	1623.43	-1692.64
4	GUIDE	109449800	8.53	9498	-0.035	-0.090	0.076	0.125	150.528481	12.901076	-648.13	-2349.51
5	GUIDE	109580808	8.97	9500	-0.112	0.108	0.064	0.107	151.412623	12.962041	-1920.92	488.36
6	GUIDE	109583824	8.79	9497	0.028	-0.140	0.071	0.115	151.226198	12.847685	-1308.81	16.41
7	GUIDE	109584104	7.71	9502	-0.095	0.217	0.074	0.120	151.655187	12.782068	-1607.35	1511.62

## 2.4 Star Slots

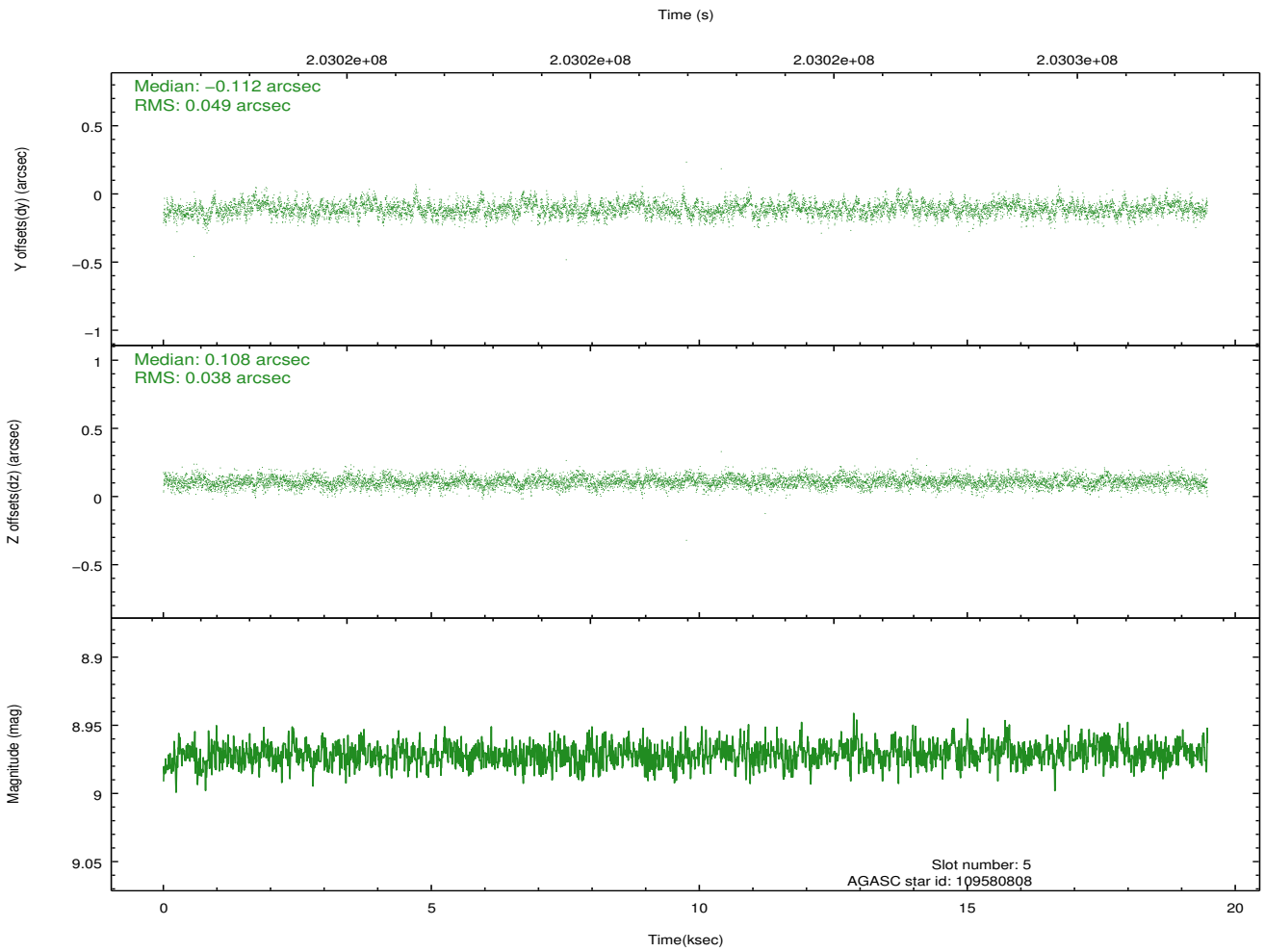
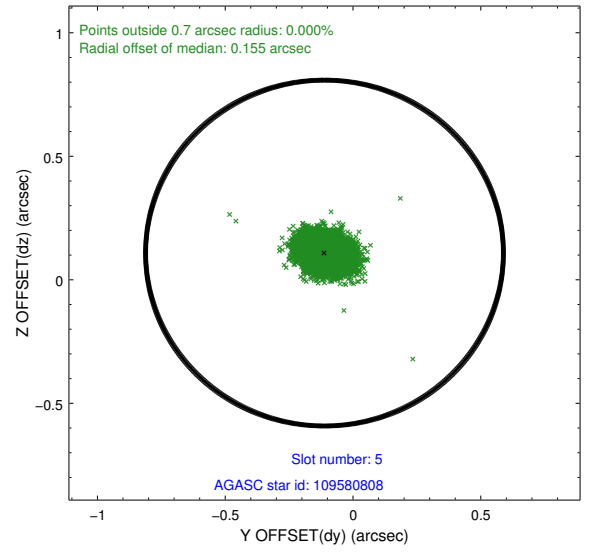
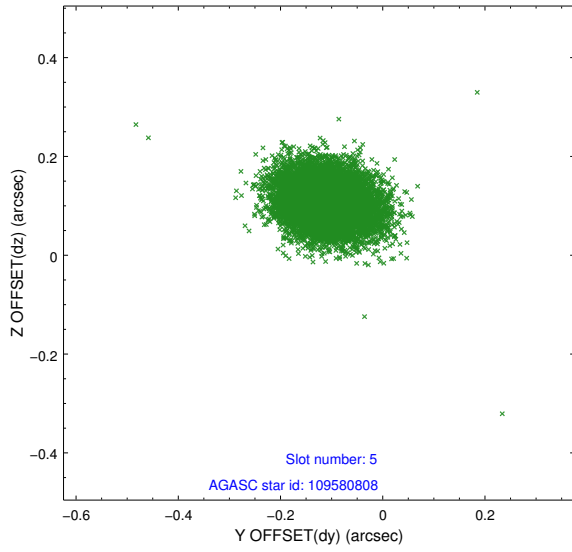
### 2.4.1 Slot 3



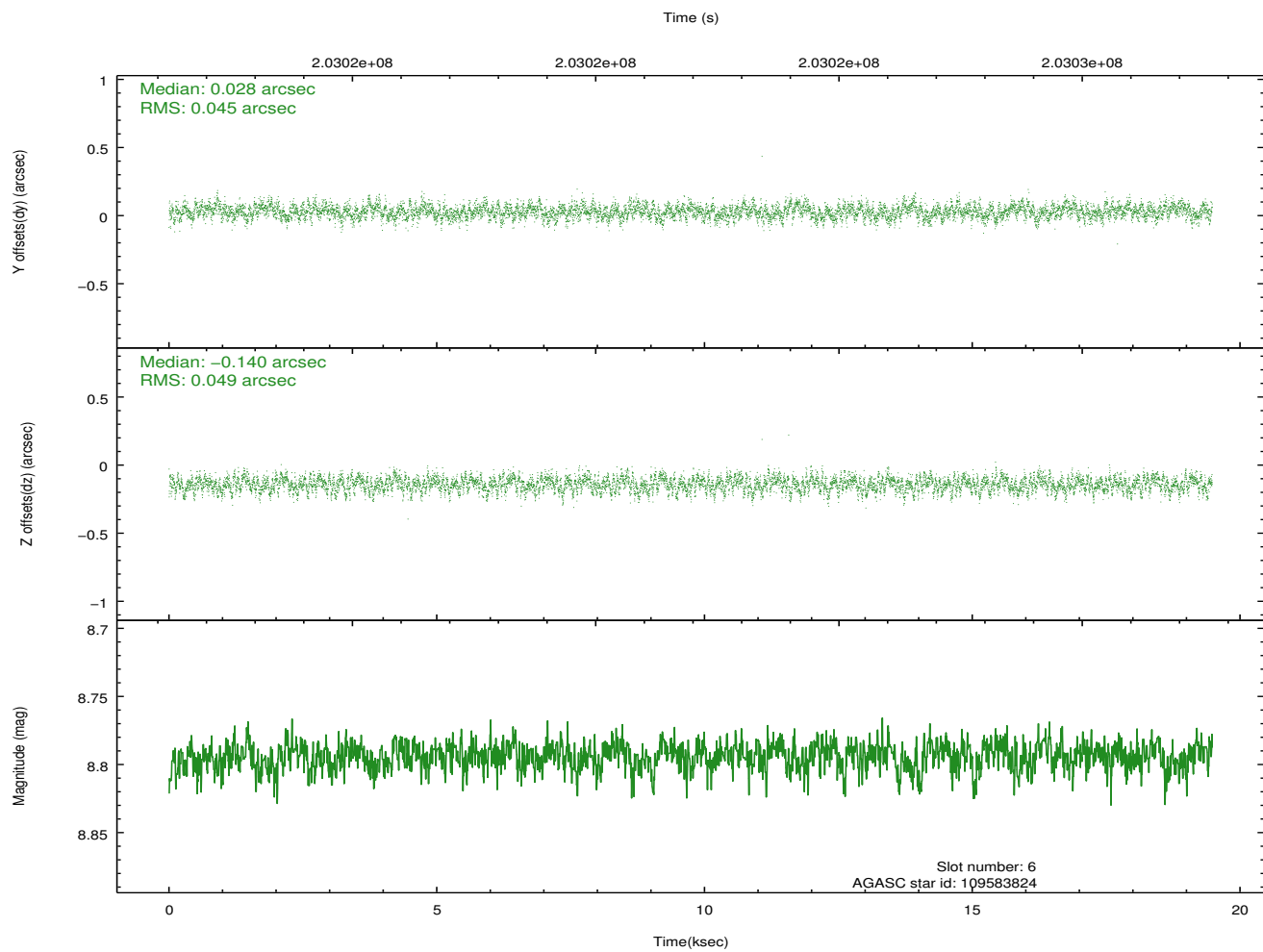
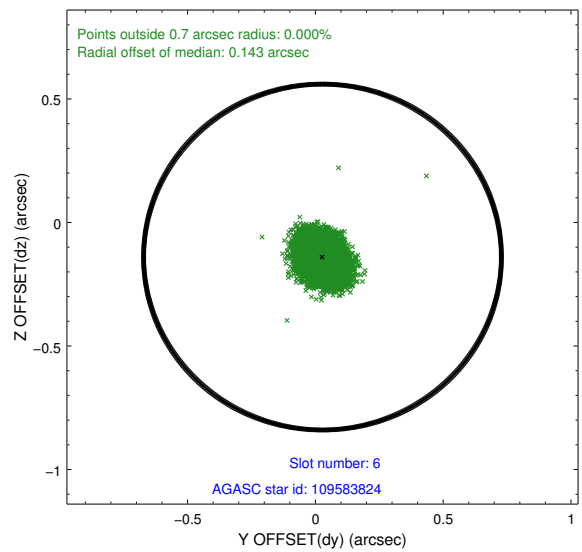
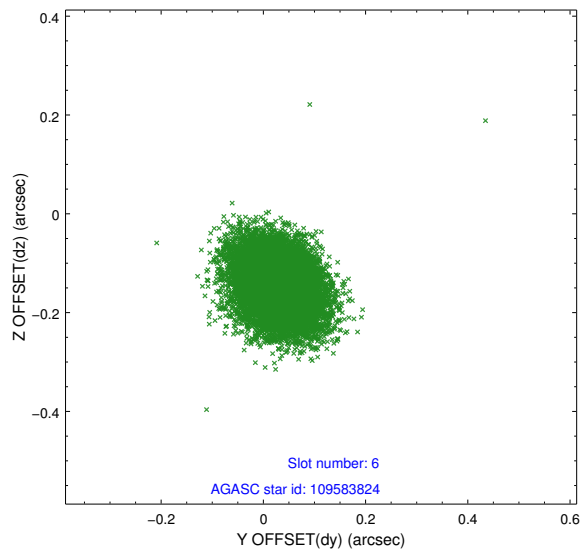
## 2.4.2 Slot 4



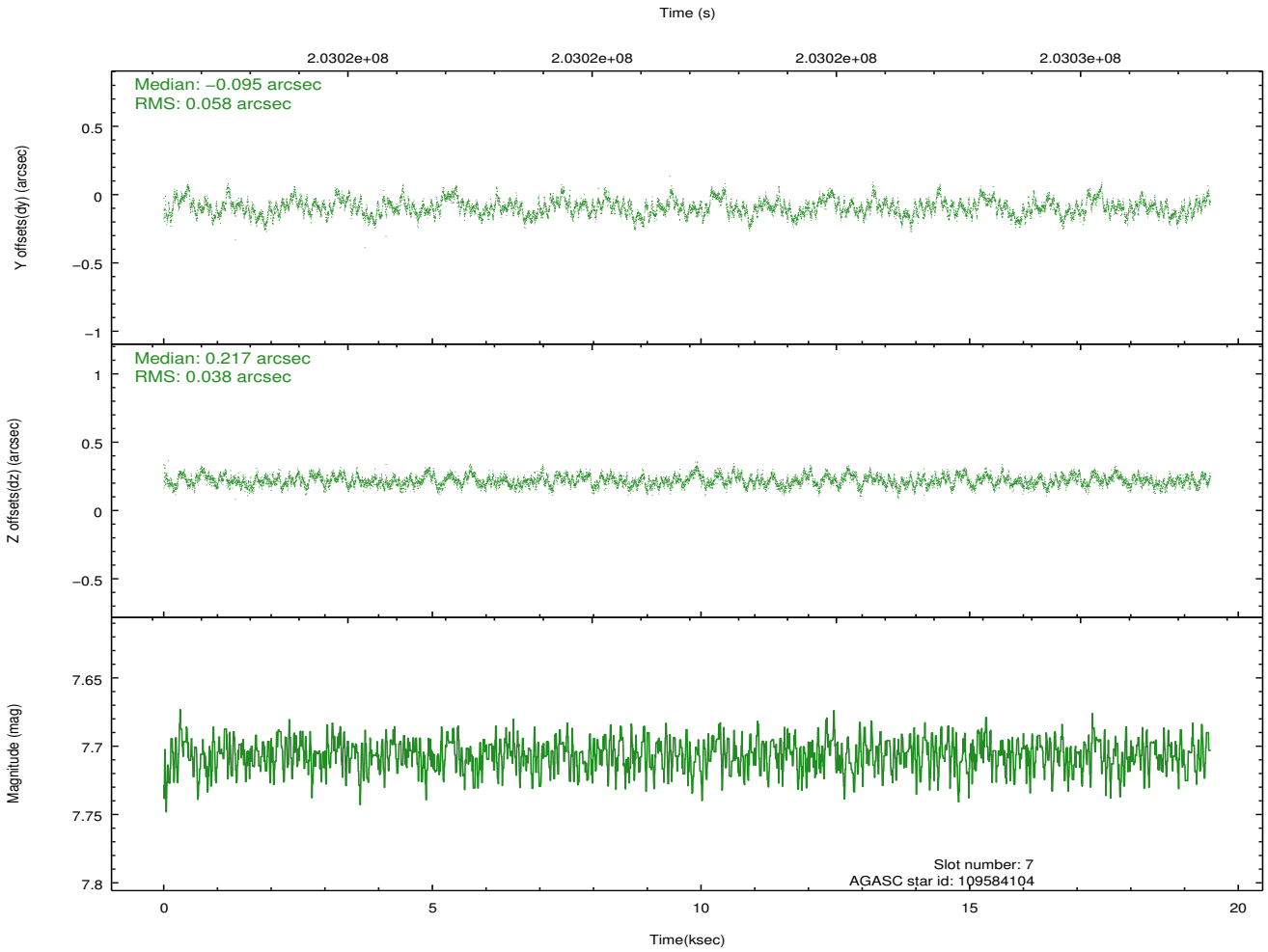
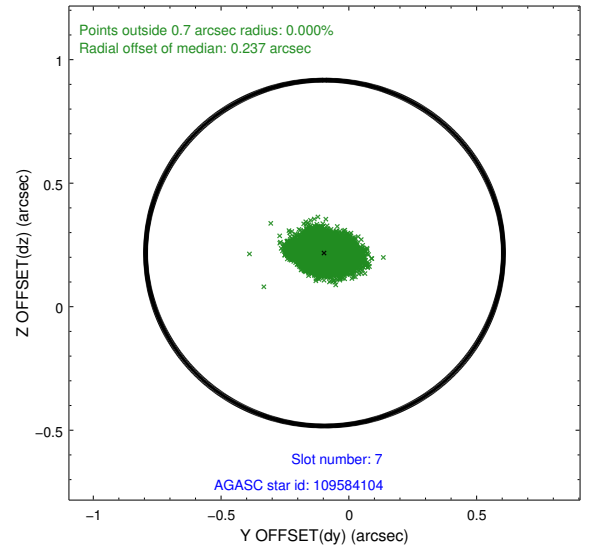
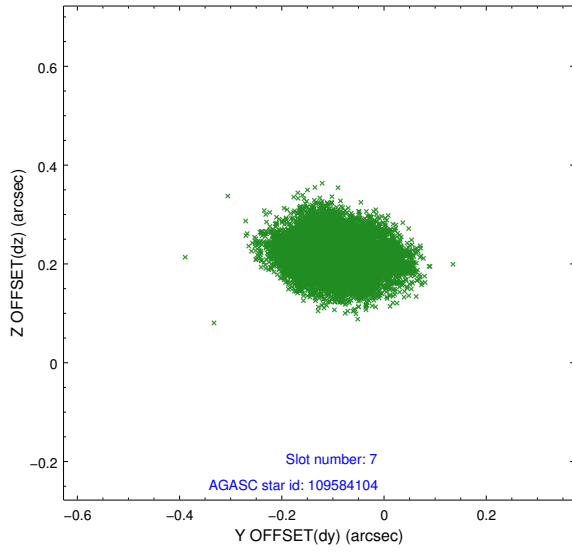
### 2.4.3 Slot 5



## 2.4.4 Slot 6

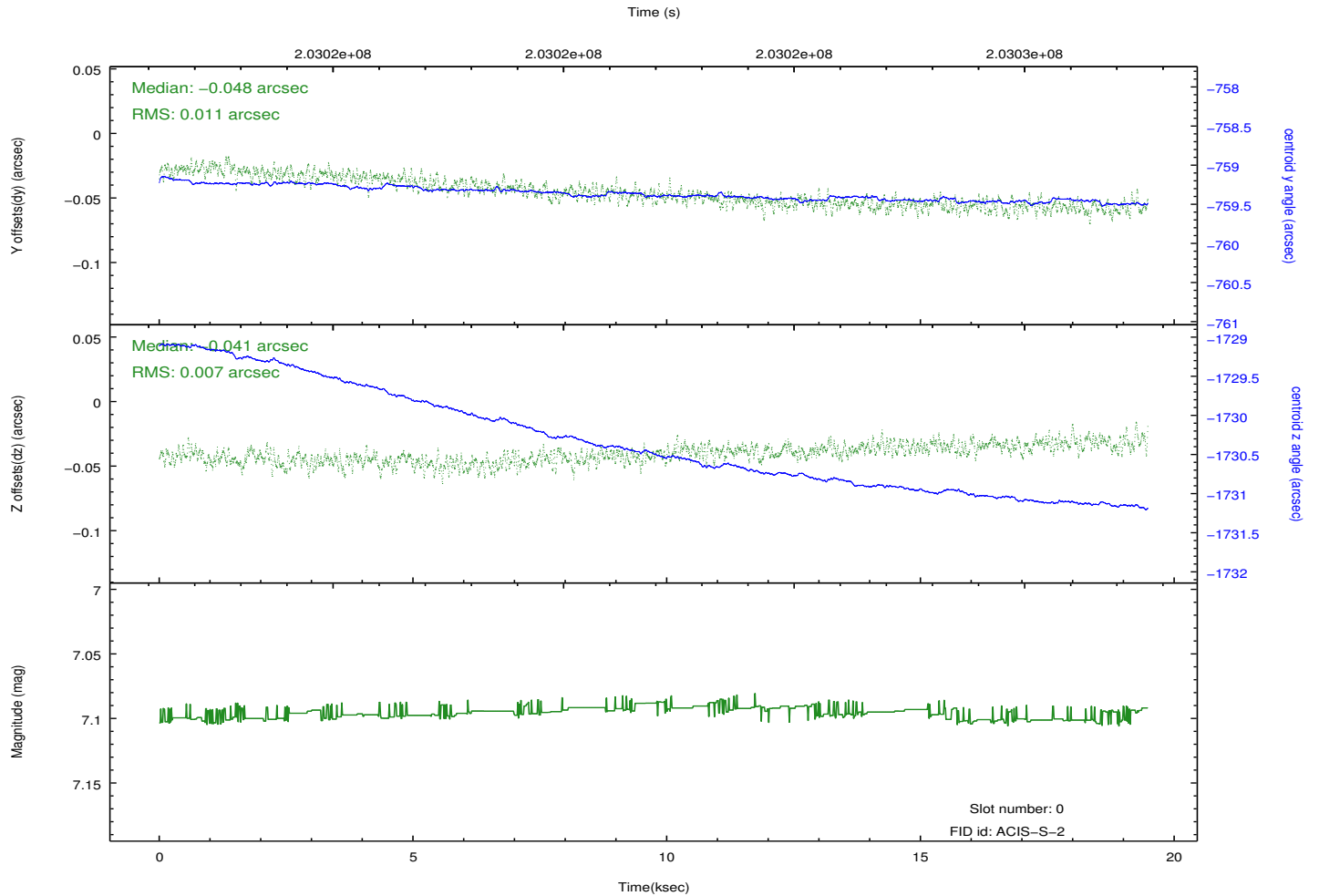
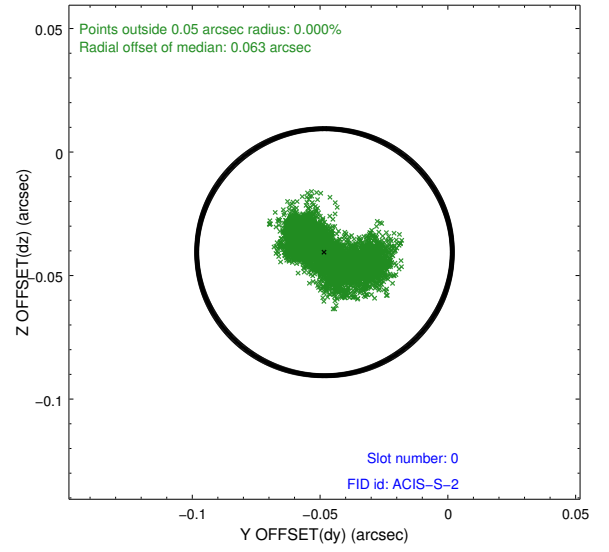
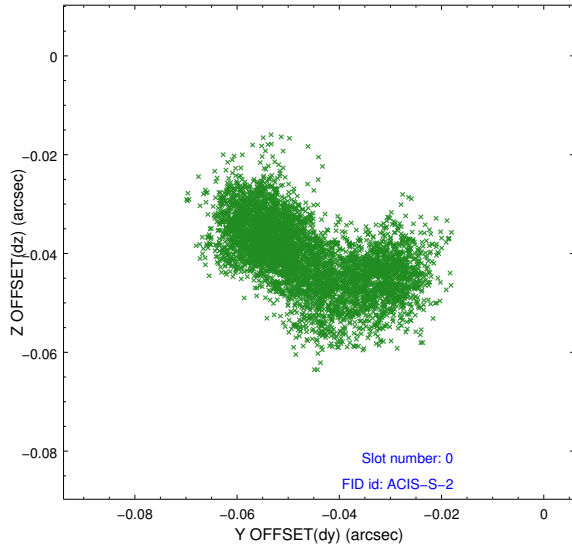


### 2.4.5 Slot 7

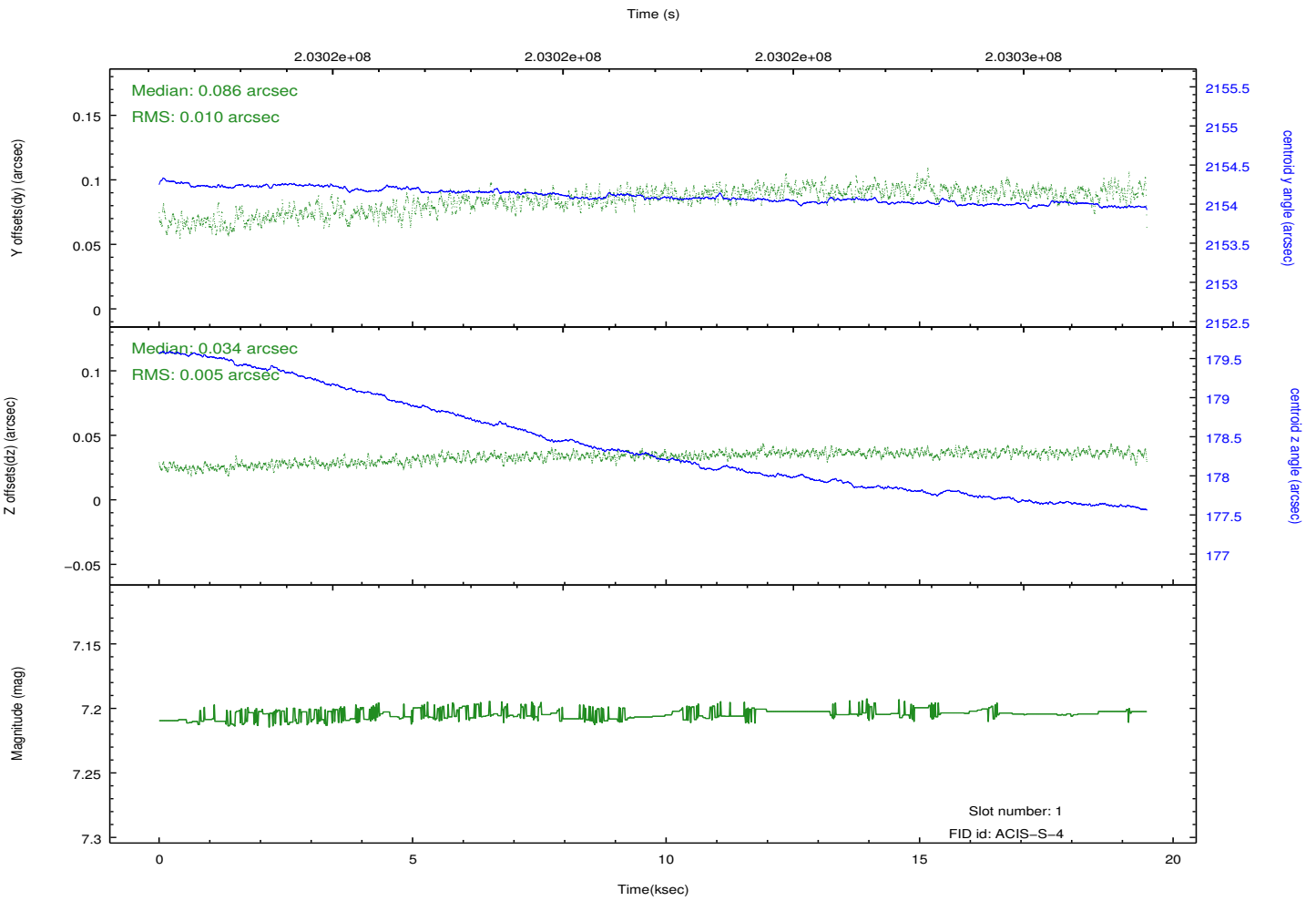
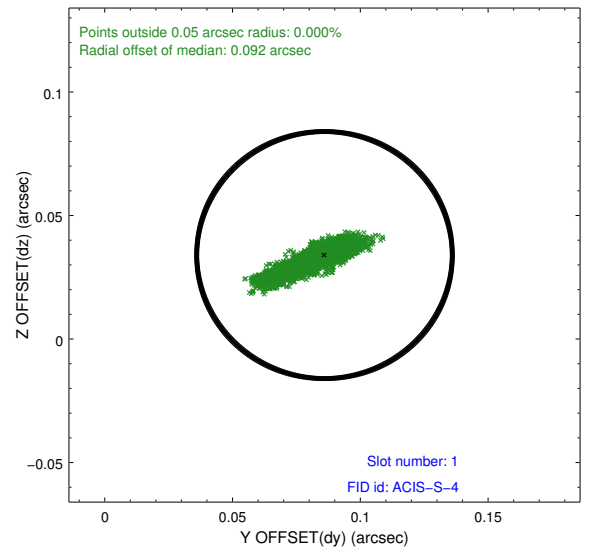
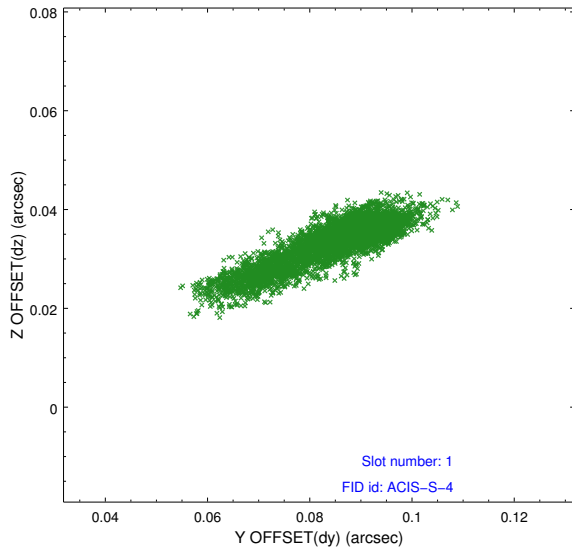


## 2.5 FID Slots

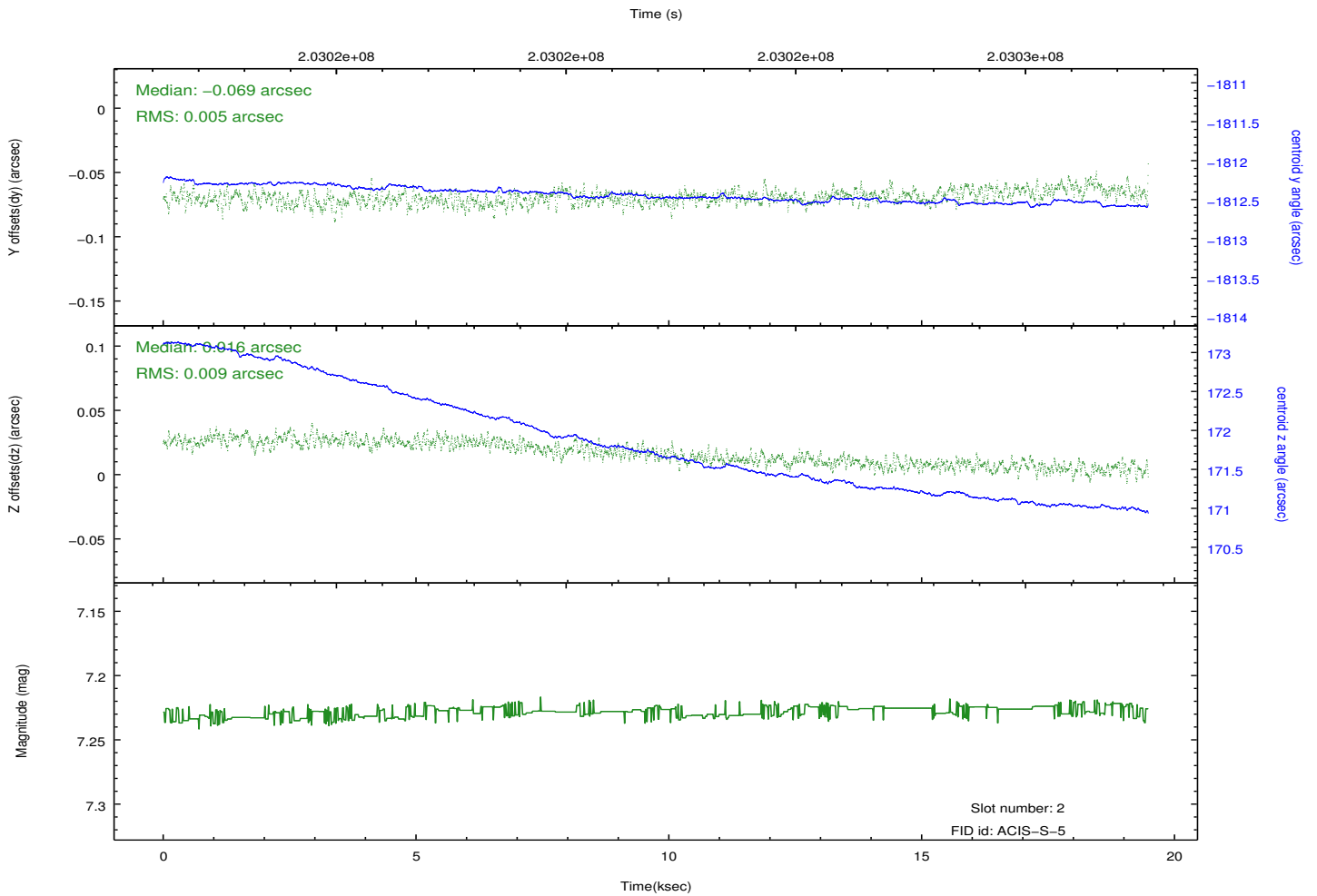
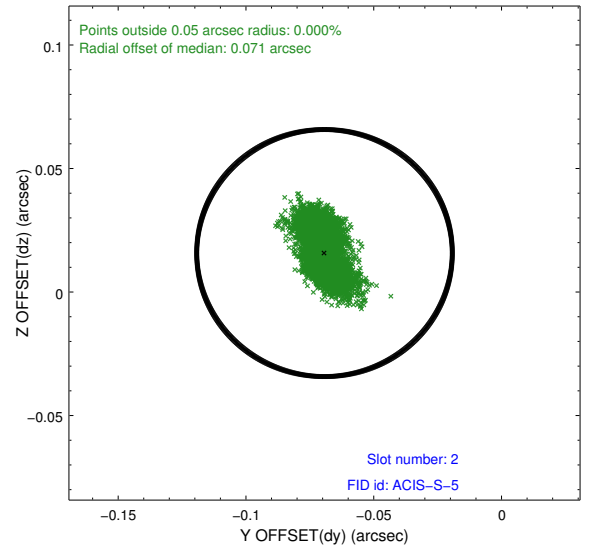
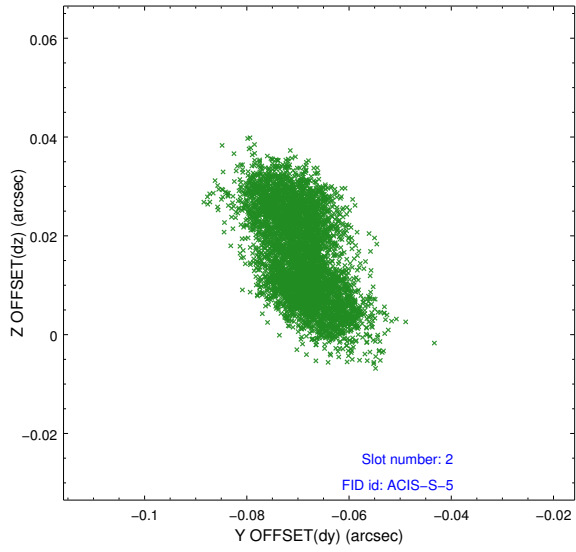
### 2.5.1 Slot 0



## 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)	2012.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.478

## A.2 Comments