

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 7259 - L2 Version 2  
Chandra X-Ray Center

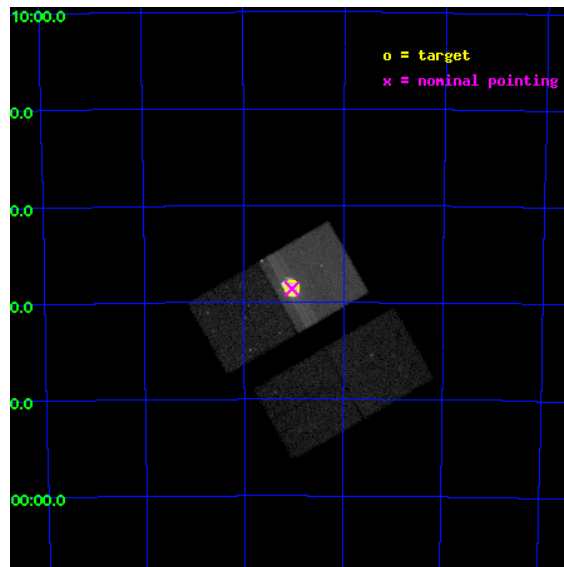
L2 Processing Date : Mar 23 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

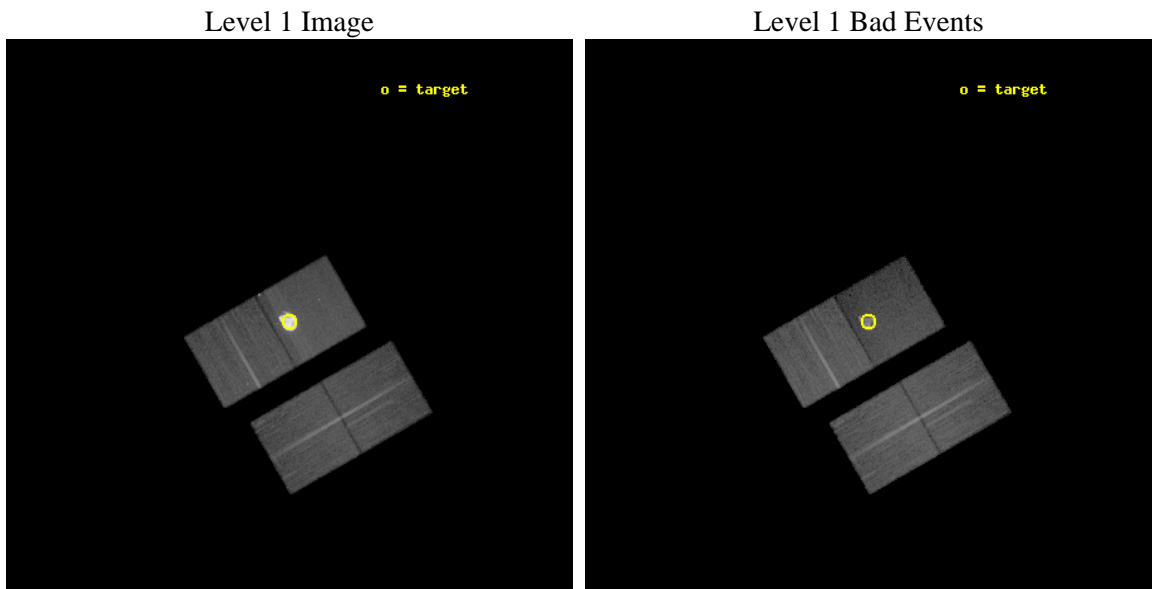
seq_num	500526	Sequence number
obs_id	7259	Observation id
title	The Oxygen-Rich SNR N132D: Ejecta Detection and Chemical Abundances	&#160
observer	Dr. Kazimierz Borkowski	Principal investigator
object	N132D	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	81.25875	Observer's specified target RA [deg]
dec_targ	-69.641667	Observer's specified target Dec [deg]
ra_nom	81.259508605361	Nominal RA [deg]
dec_nom	-69.643725062805	Nominal Dec [deg]
roll_nom	330.15732902697	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25175.099951565	Sum of GTIs [s]
livetime	24846.168737059	Livetime [s]
ontime2	25175.099951565	Sum of GTIs [s]
ontime3	25171.958971322	Sum of GTIs [s]
ontime6	25168.818021029	Sum of GTIs [s]
ontime7	25175.099951565	Sum of GTIs [s]
l2events	926231	Number of level 2 events



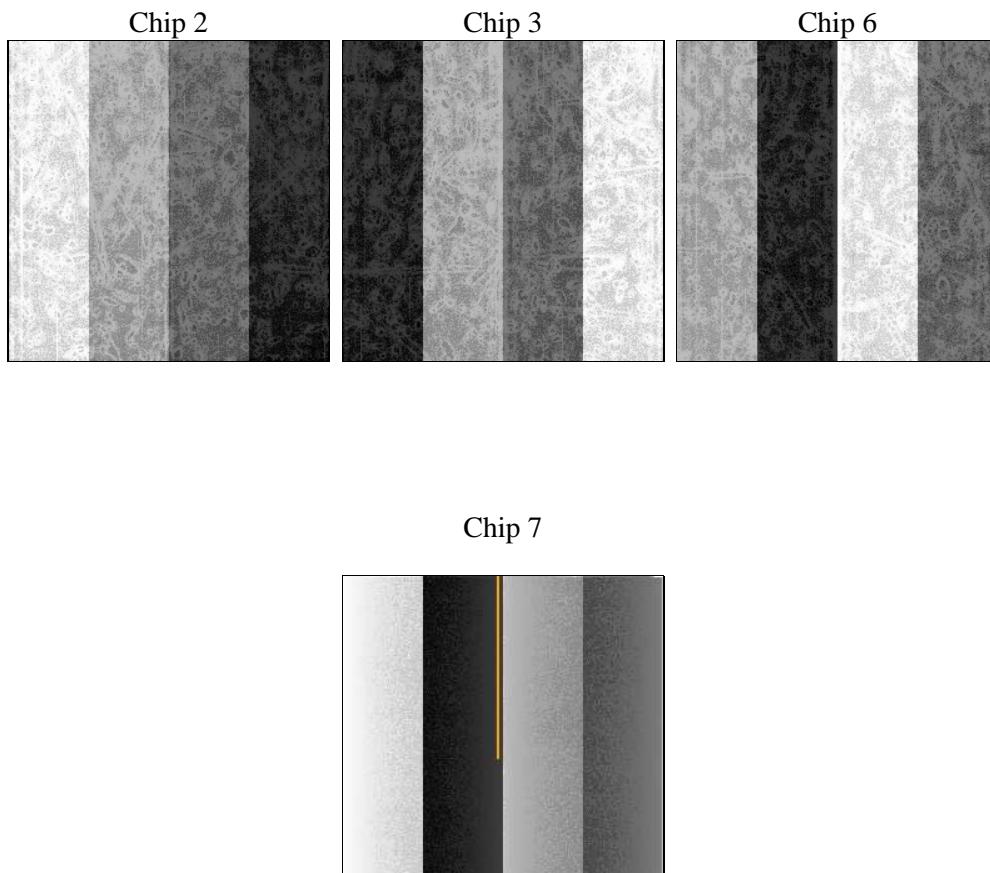
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	25175.099951565	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime2	25175.099951565	Sum of GTIs [s]
date	2012-03-23T14:05:19	Date and time of file creation	ontime3	25171.958971322	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	25168.818021029	Sum of GTIs [s]
			ontime7	25175.099951565	Sum of GTIs [s]
			l1events	1503753	Number of level 1 events

### 2.1.4 Events

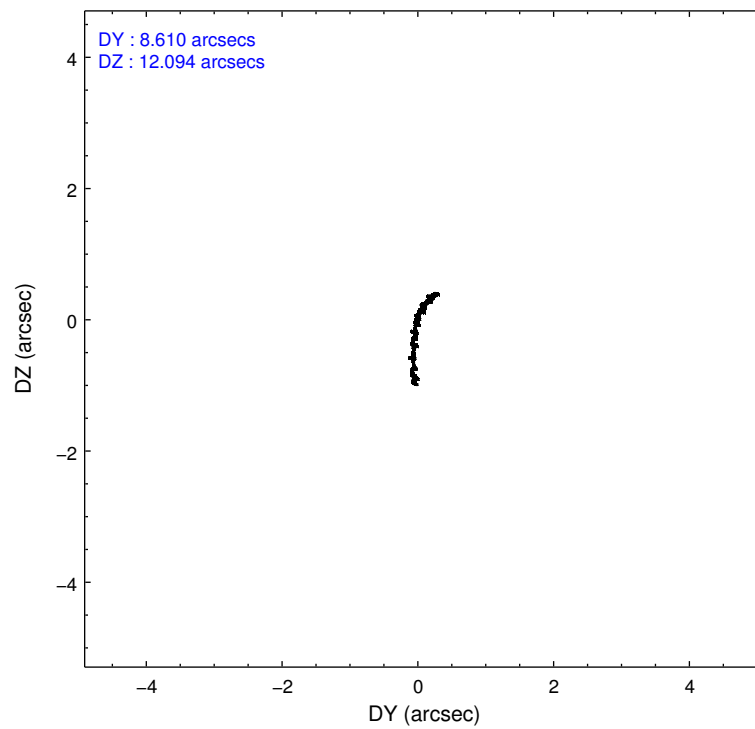
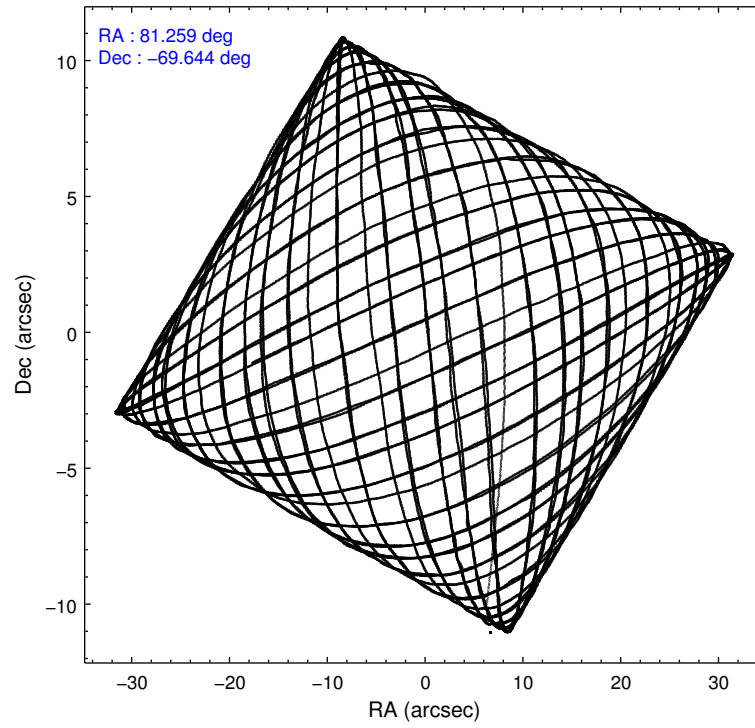
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	175796	161706	171571	994680
rejected events	158737	145075	150383	106961
rejected %	90%	89%	87%	10%

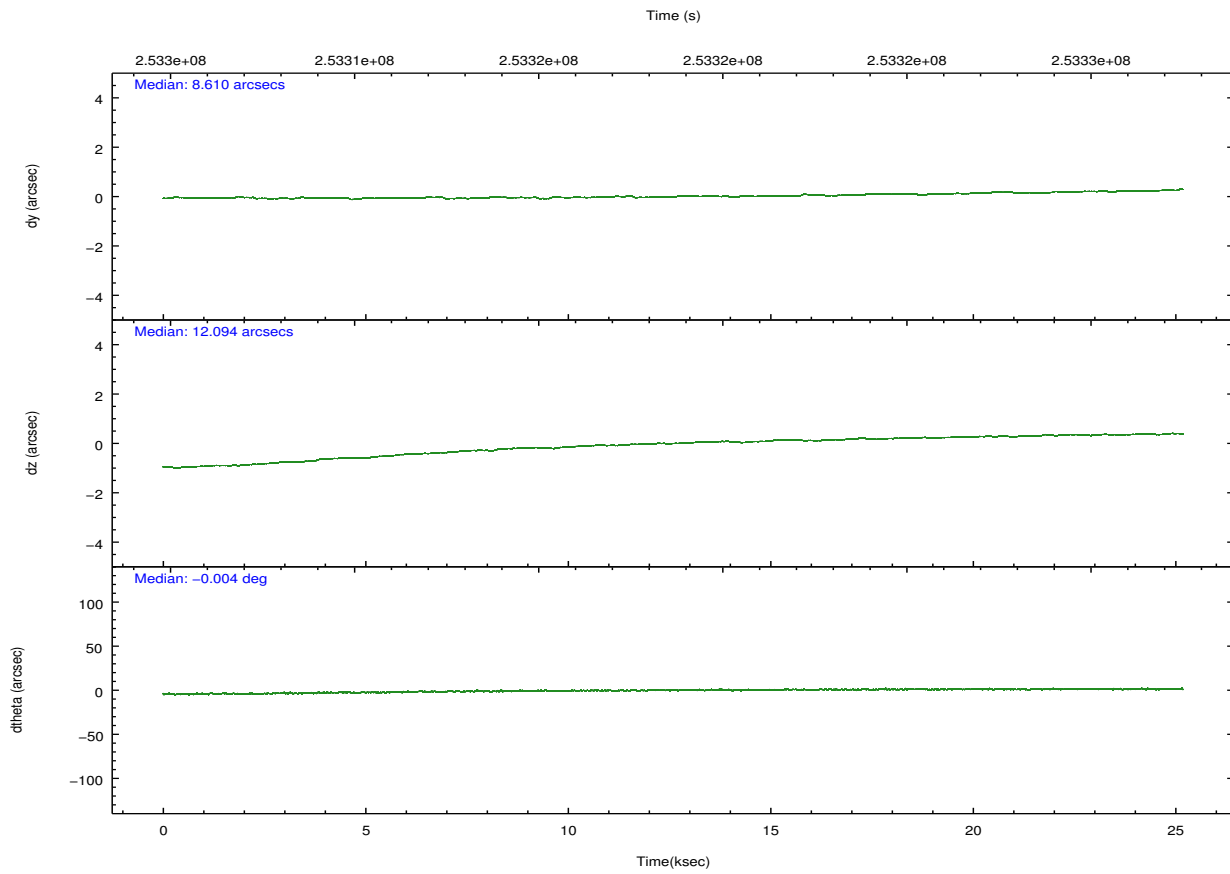
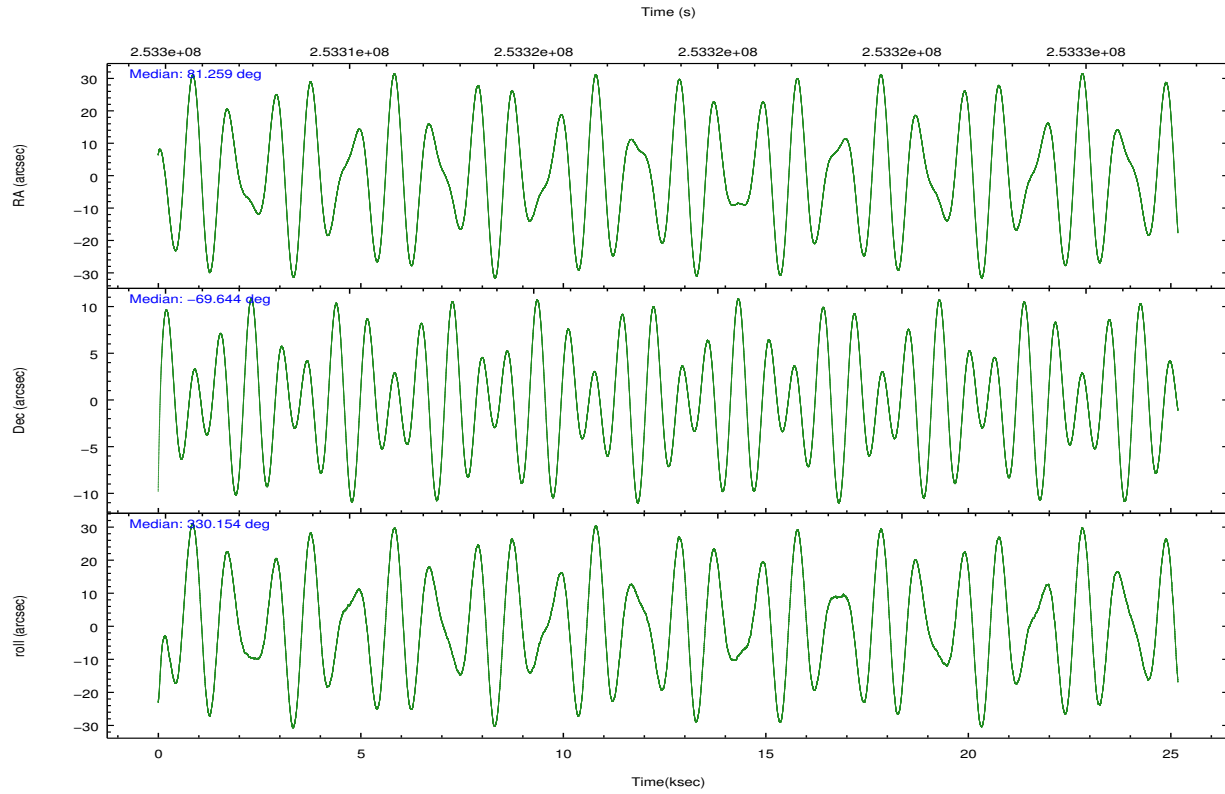
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	7434	7417	10276	267288
	4%	4%	5%	26%
grade 1 events	77	94	107	4132
	0%	0%	0%	0%
grade 2 events	3614	3337	3936	241893
	2%	2%	2%	24%
grade 3 events	1700	1765	1948	107622
	0%	1%	1%	10%
grade 4 events	1808	1704	1883	104228
	1%	1%	1%	10%
grade 5 events	4388	5668	5613	28852
	2%	3%	3%	2%
grade 6 events	2624	2838	3297	171801
	1%	1%	1%	17%
grade 7 events	154151	138883	144511	68864
	87%	85%	84%	6%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	81.181184	81.25950860536145	Subarray requested	NONE	NONE
[deg] Pointing Dec	-69.644172	-69.64372506280499	Alternating exposures requested	N	N
[deg] Pointing Roll	329.927272	330.1573290269683	[s] Primary exposure time	0.000000	3.1
[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)	253306241.184000	253305212.19258			
Observation start date	2006-01-10T18:49:36	2006-01-10T18:33:32			
[s] Observation end time (MET)	253331241.184000	253332852.85636			
Observation end date	2006-01-11T01:46:16	2006-01-11T02:14:12			
Read mode	TIMED	TIMED			

## 2.3 Aspect



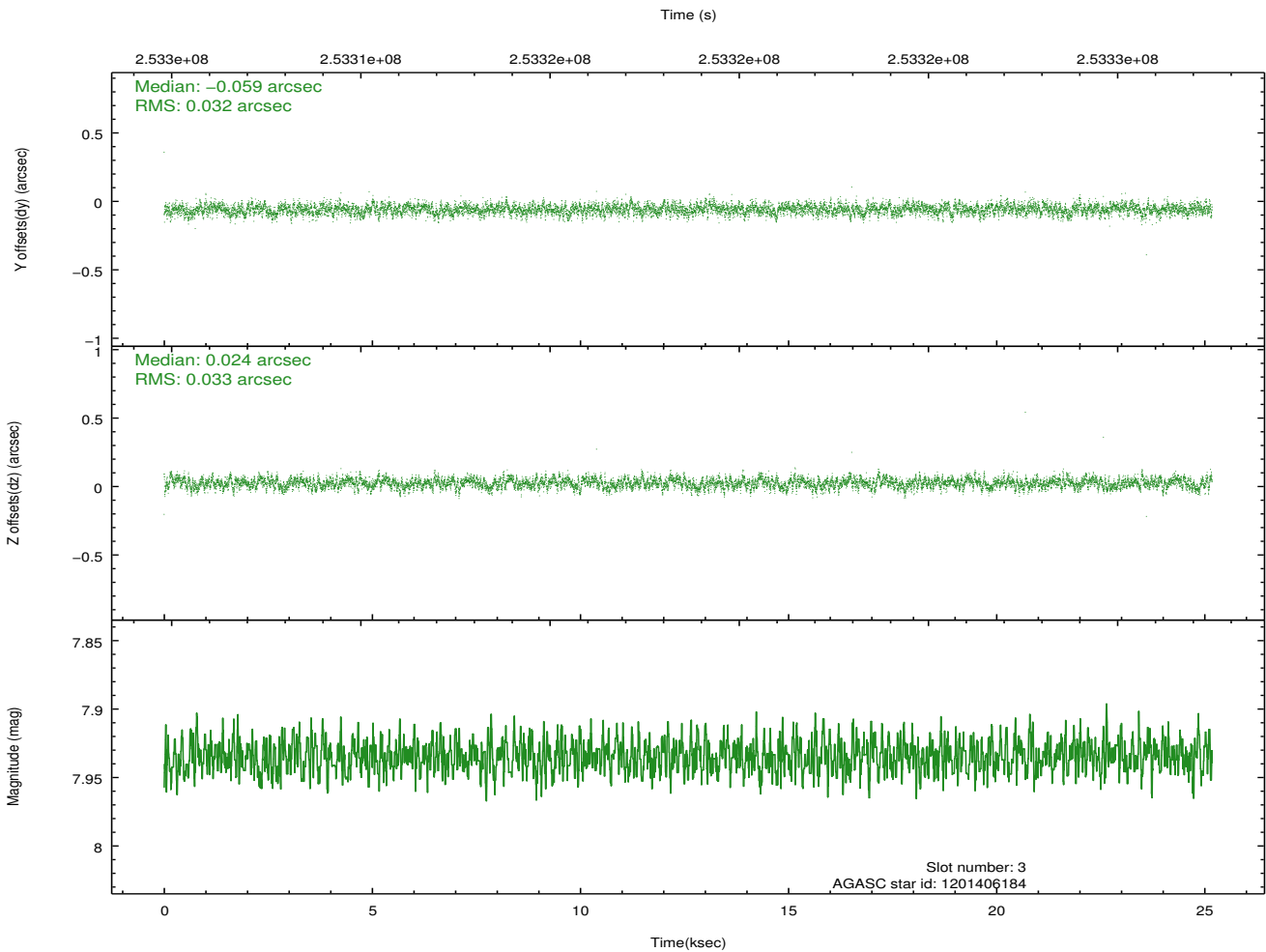
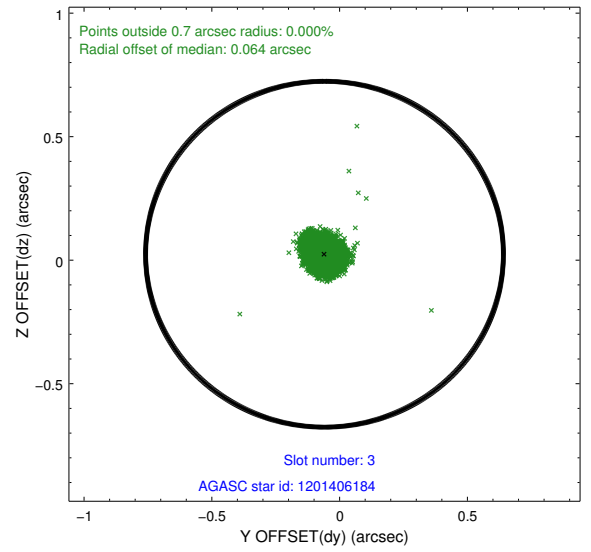
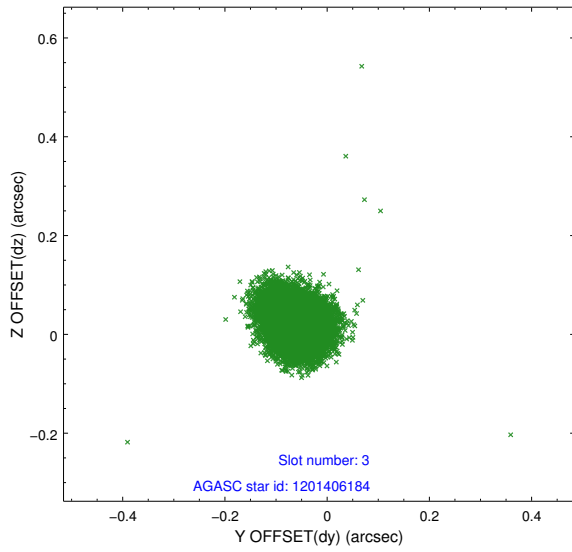


### Slot Statistics

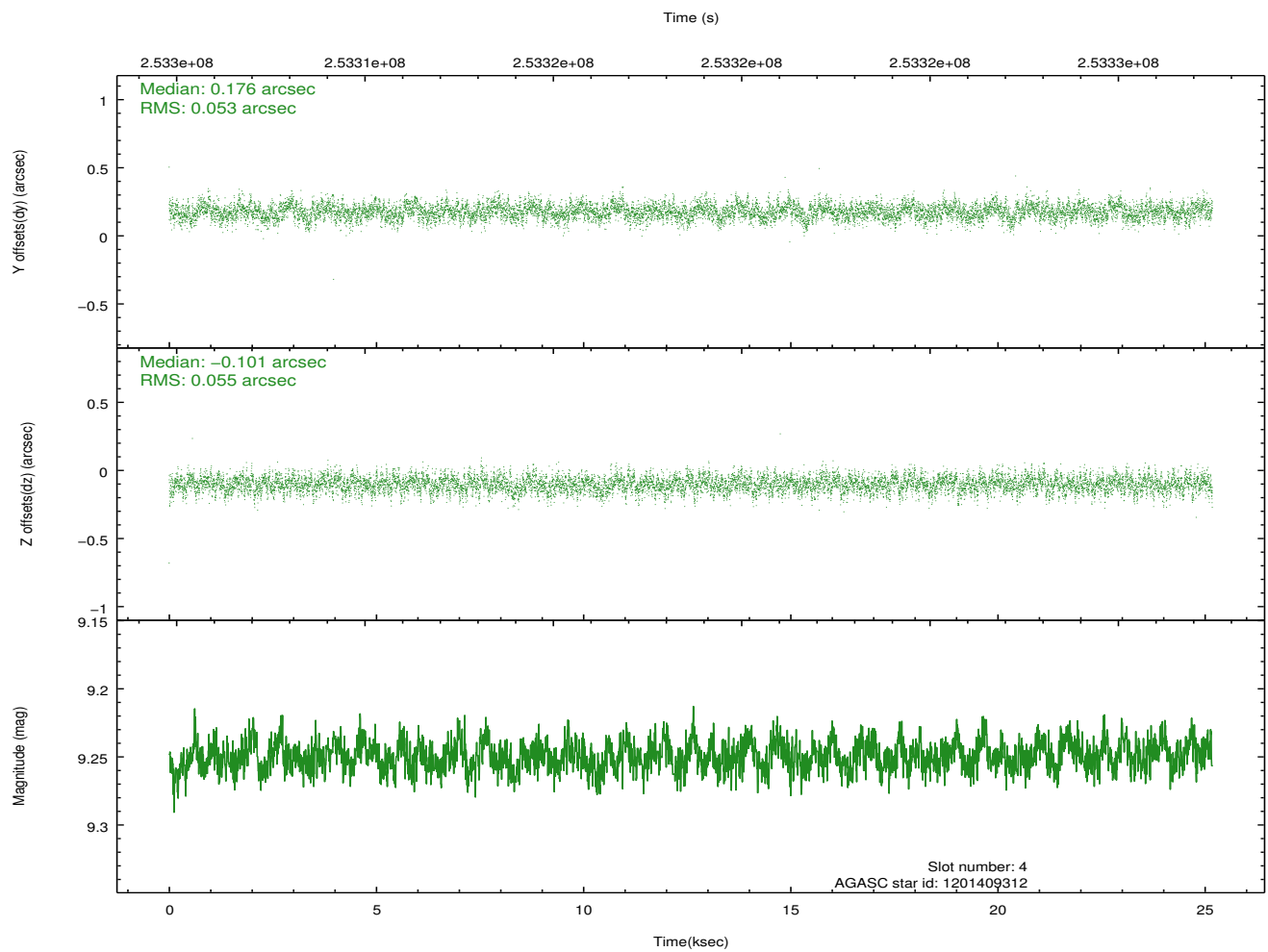
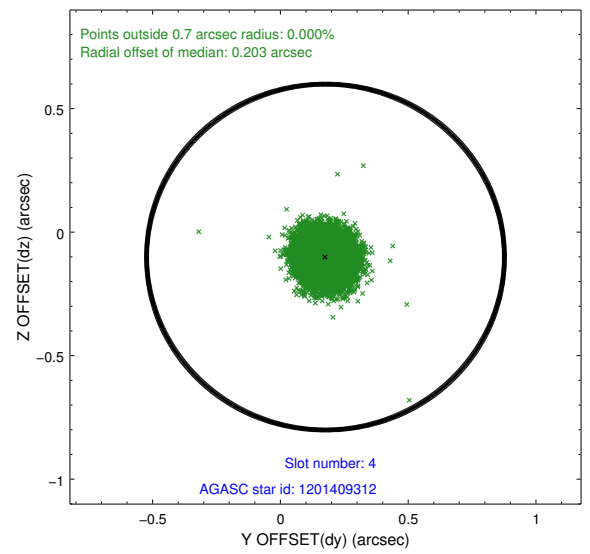
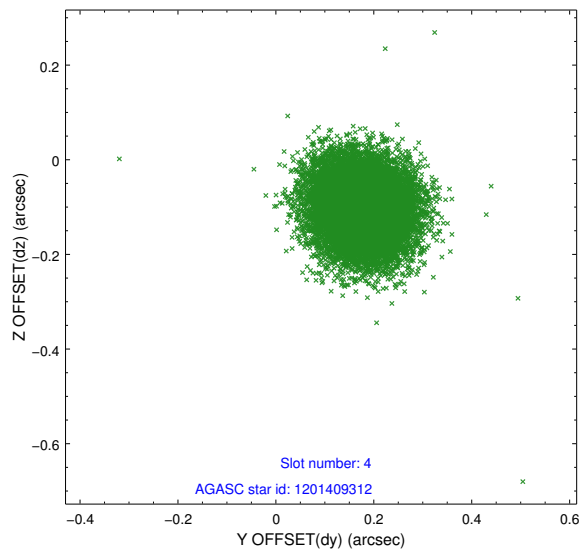
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	6141	-0.014	-0.027	0.013	0.026	0.000000	0.000000	-761.45	-1733.30
1	FID	ACIS-S-4	7.20	6142	0.117	0.014	0.006	0.011	0.000000	0.000000	2151.90	175.10
2	FID	ACIS-S-5	7.23	6141	-0.133	0.023	0.016	0.027	0.000000	0.000000	-1814.26	168.91
3	GUIDE	1201406184	7.93	12278	-0.059	0.024	0.049	0.079	82.503234	-69.975517	2017.28	-230.64
4	GUIDE	1201409312	9.25	12269	0.176	-0.101	0.080	0.131	80.915231	-69.503059	-543.57	271.03
5	GUIDE	1201410888	8.00	12277	-0.154	0.106	0.049	0.080	81.046858	-70.018210	532.21	-1247.99
6	GUIDE	1201411288	9.25	12274	0.116	-0.125	0.088	0.143	81.410076	-69.595403	161.35	295.53
7	GUIDE	1201409792	8.87	12278	-0.081	0.101	0.089	0.141	82.417975	-70.260186	2420.75	-1178.52

## 2.4 Star Slots

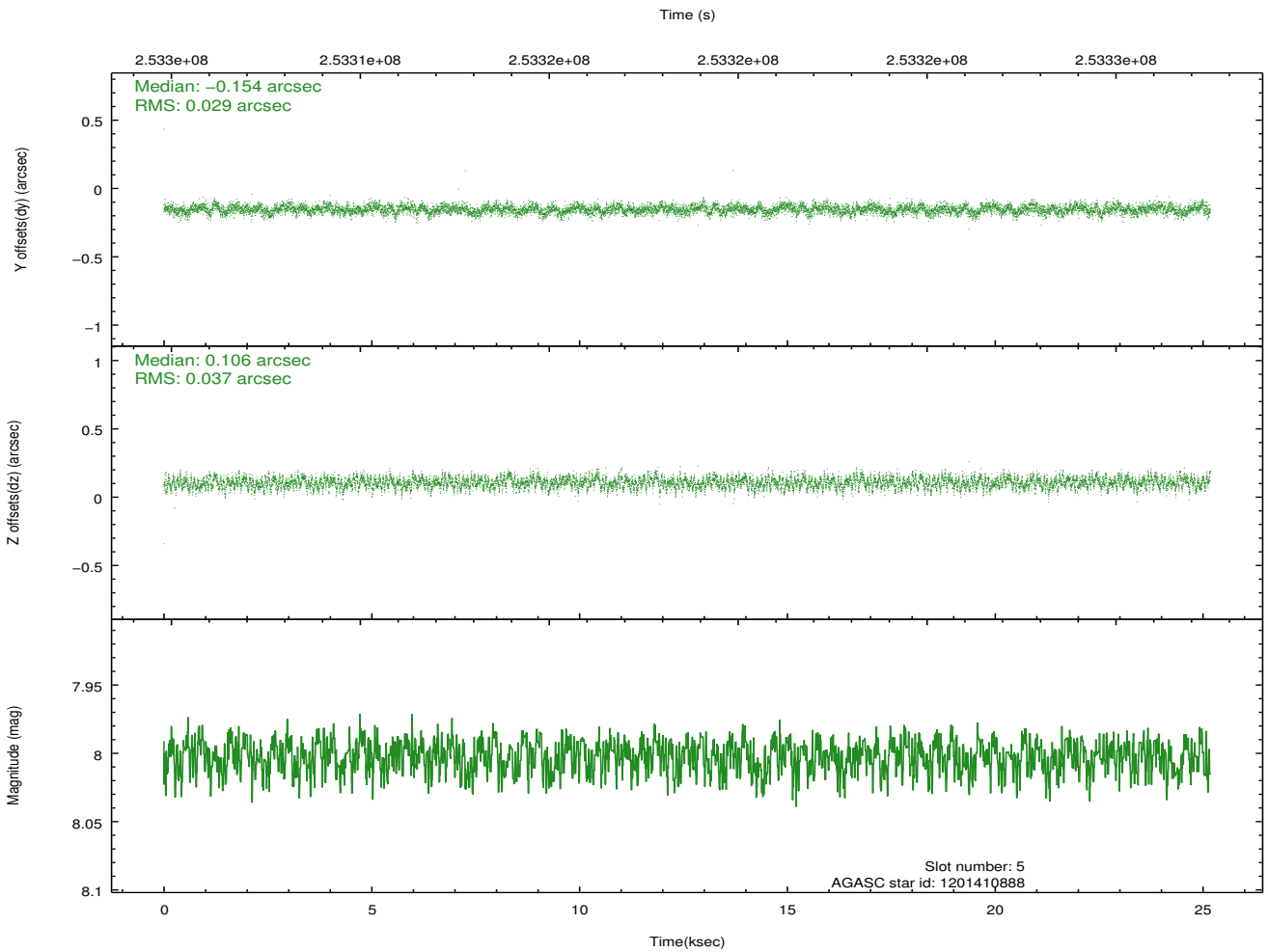
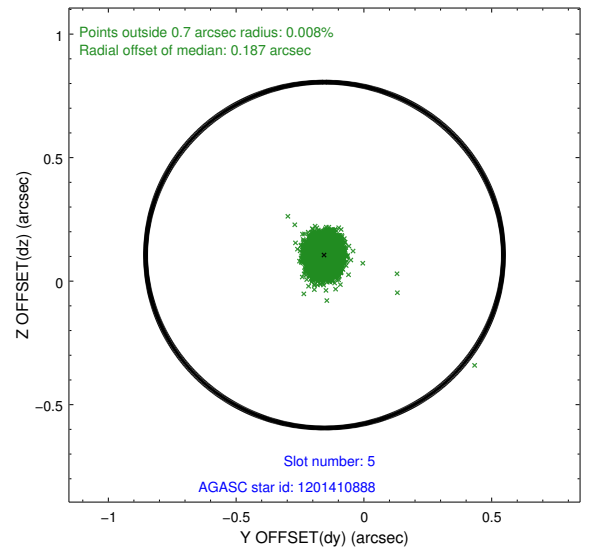
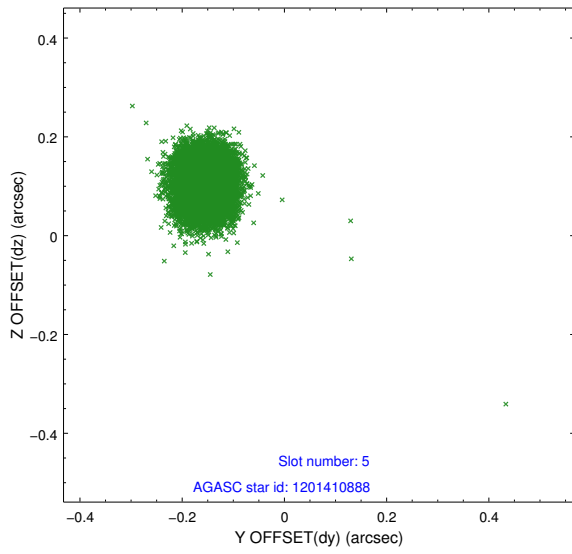
### 2.4.1 Slot 3



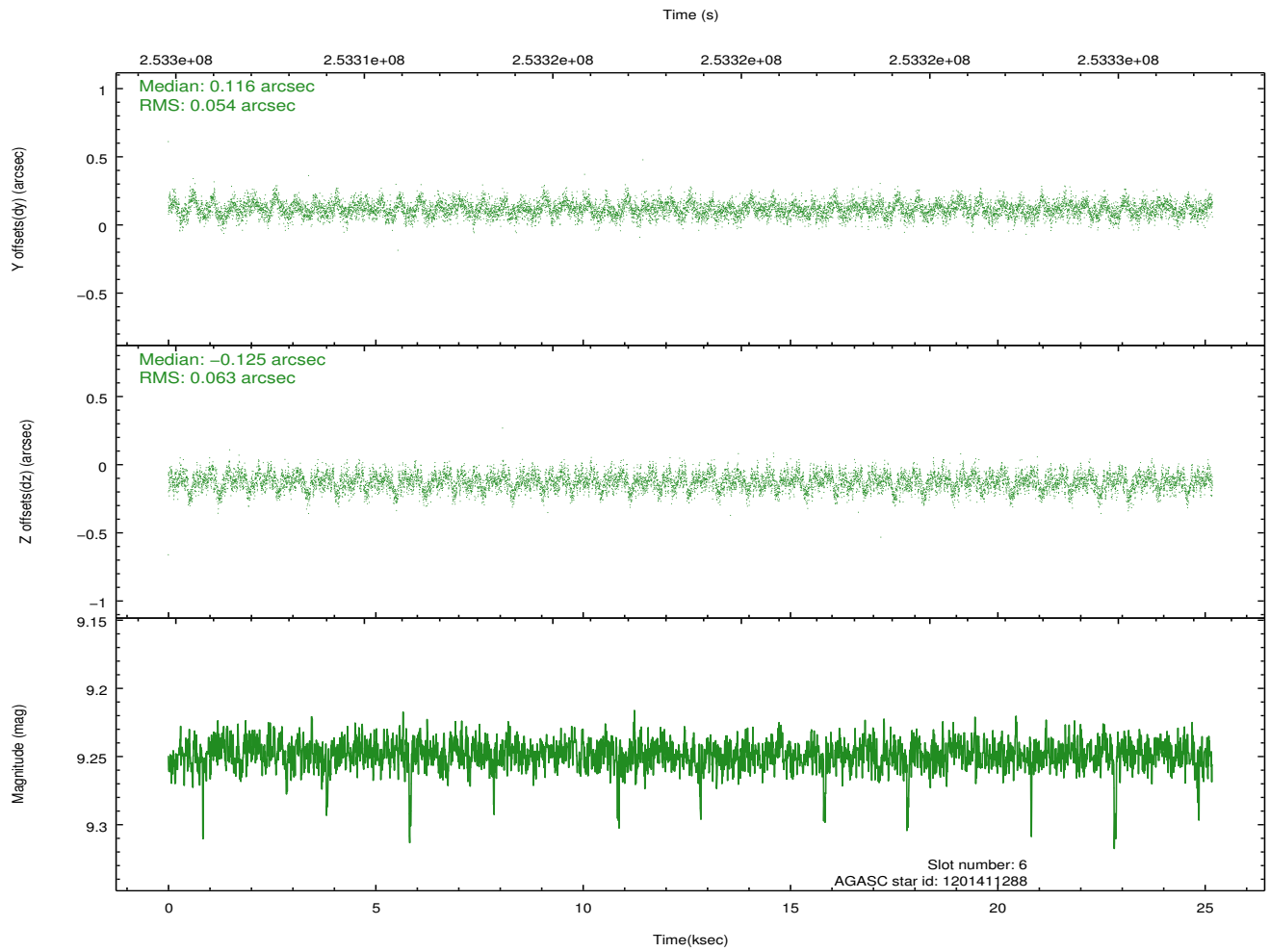
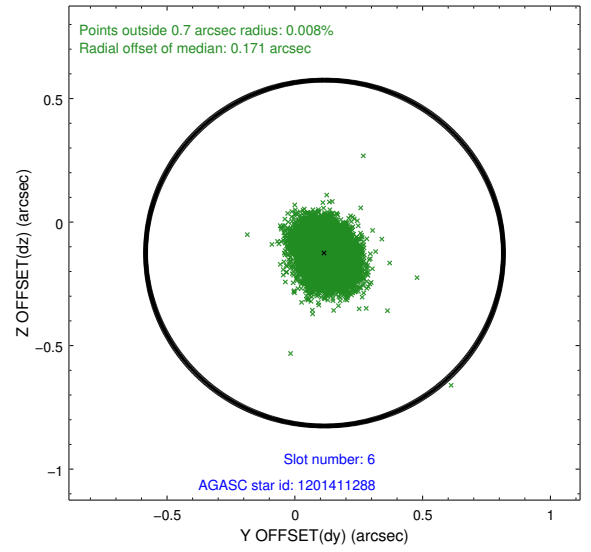
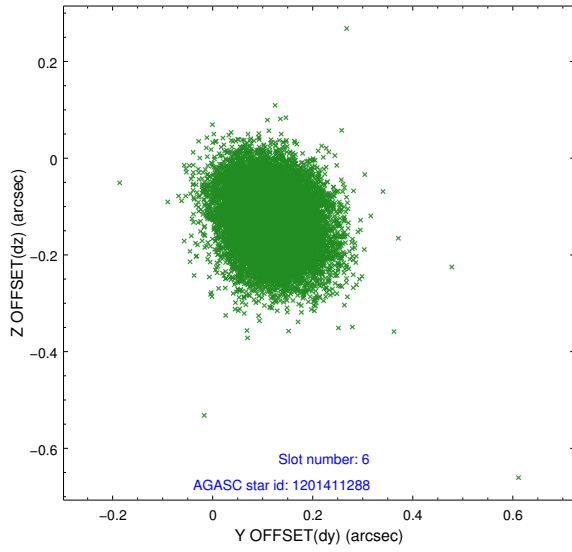
## 2.4.2 Slot 4



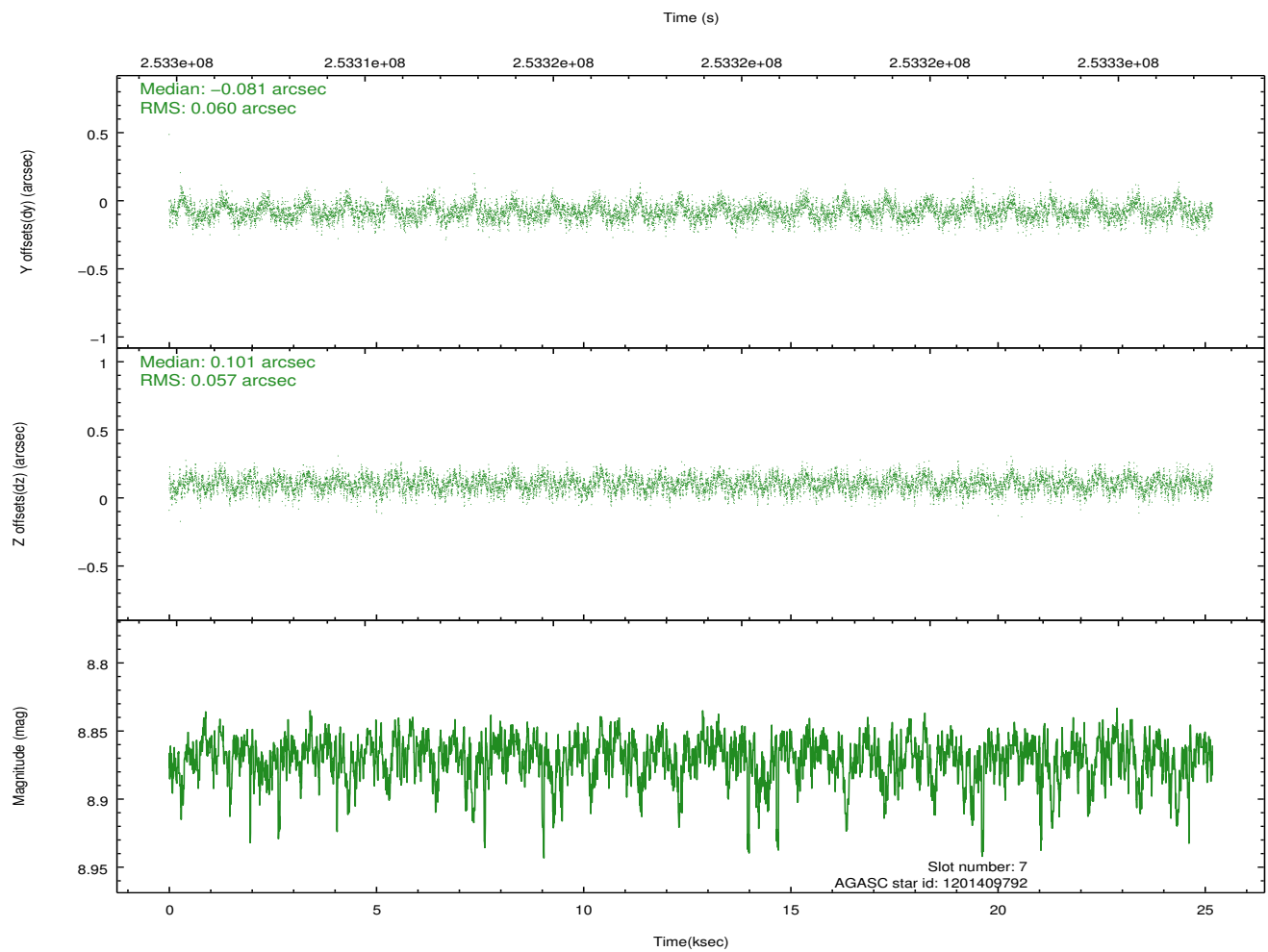
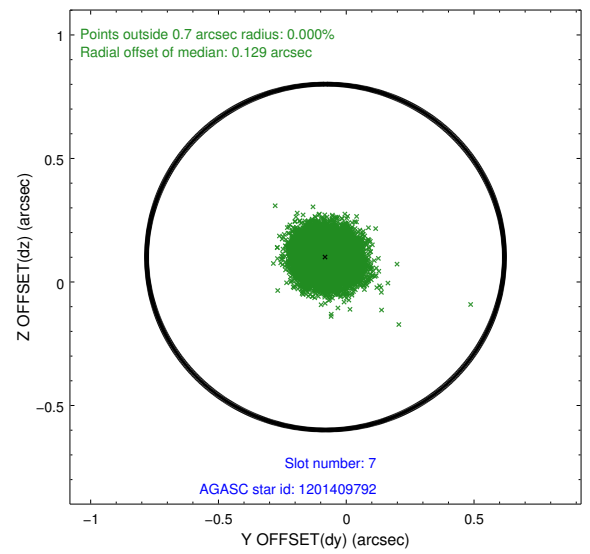
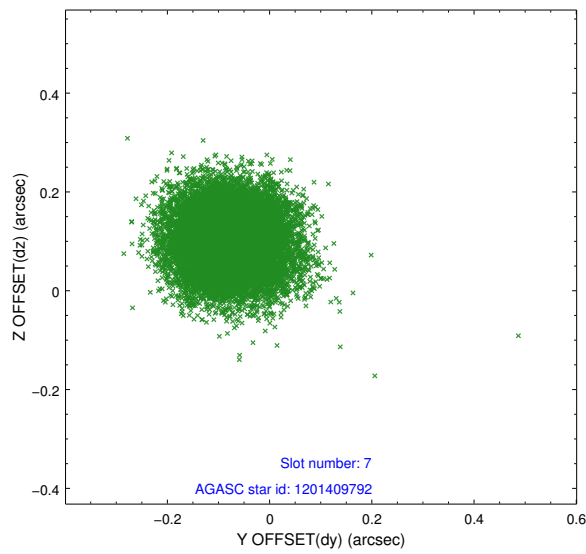
### 2.4.3 Slot 5



## 2.4.4 Slot 6

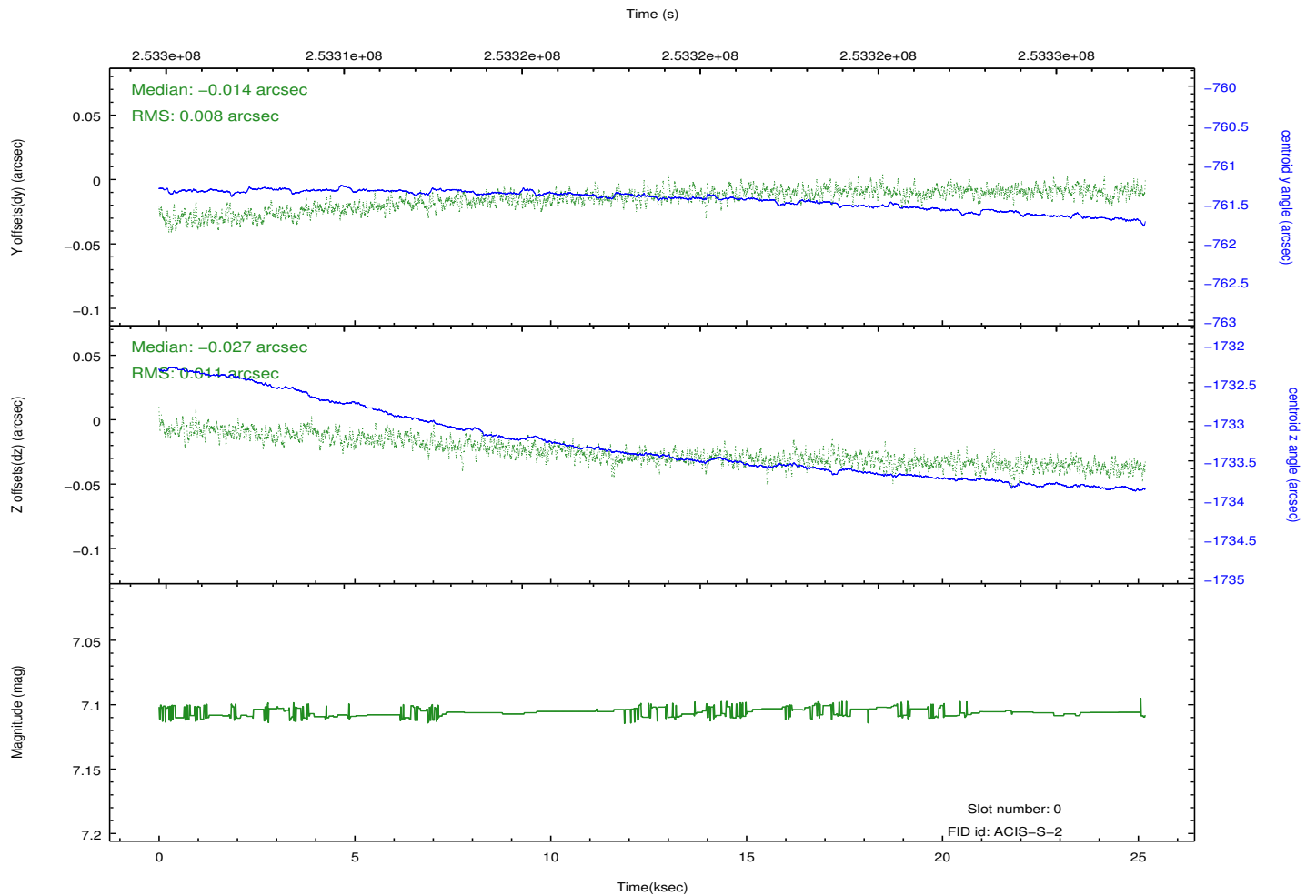
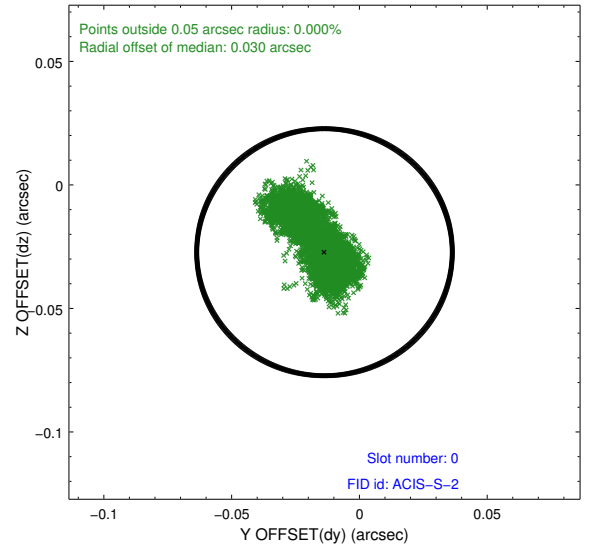
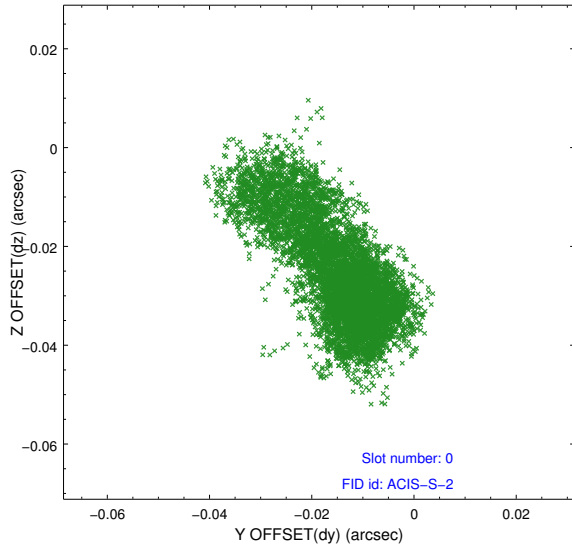


## 2.4.5 Slot 7

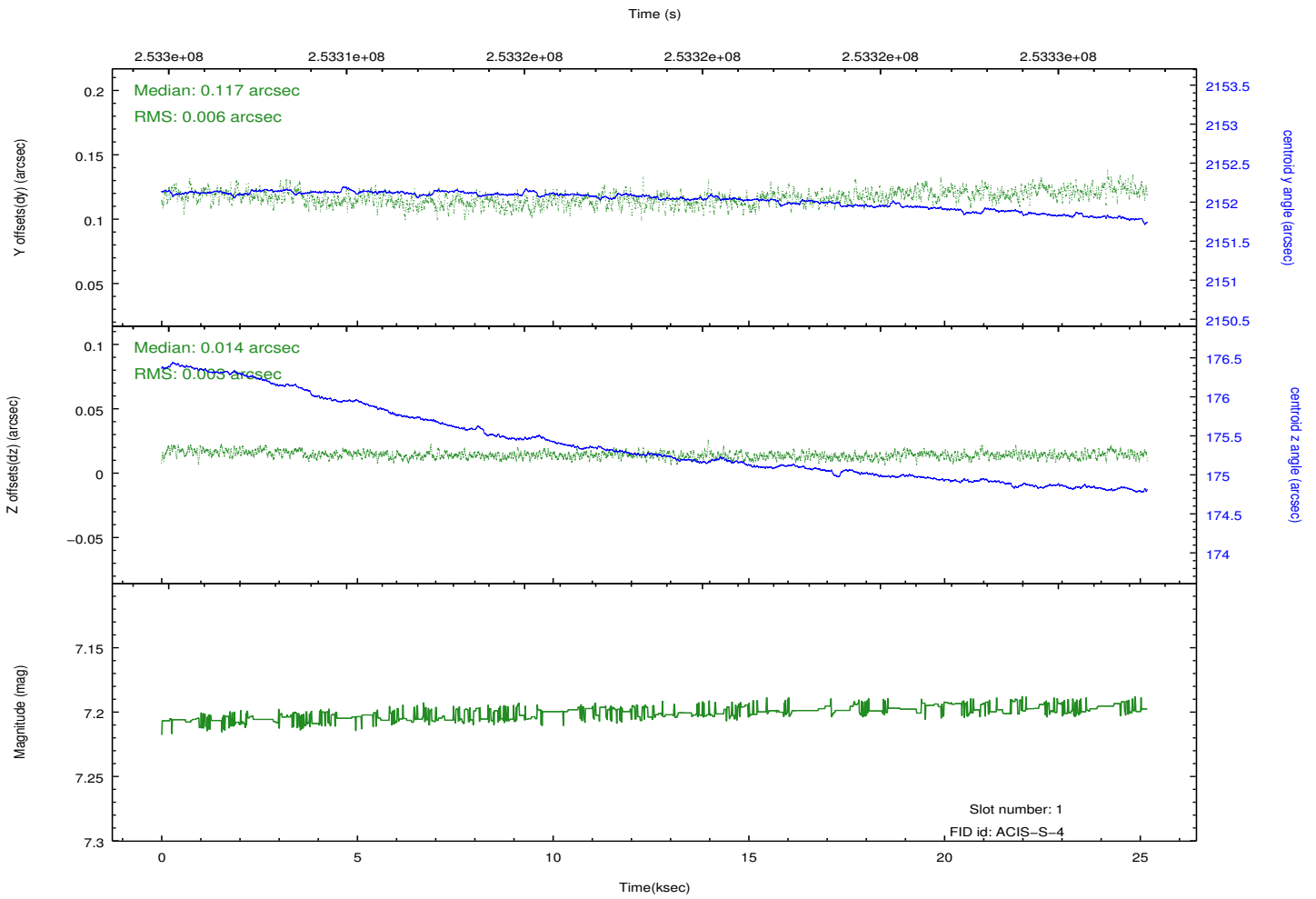
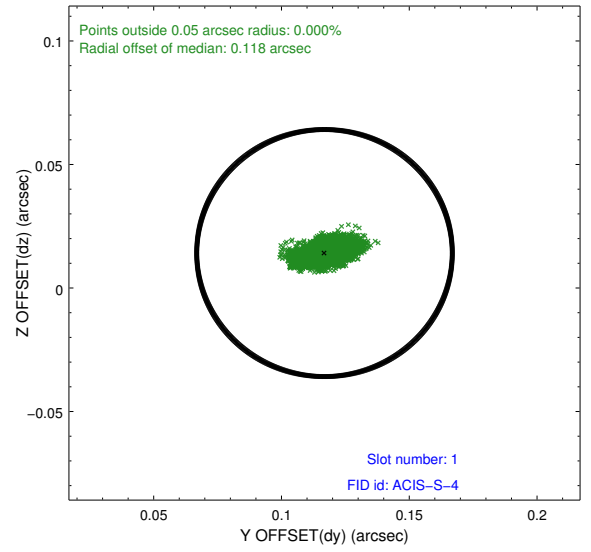
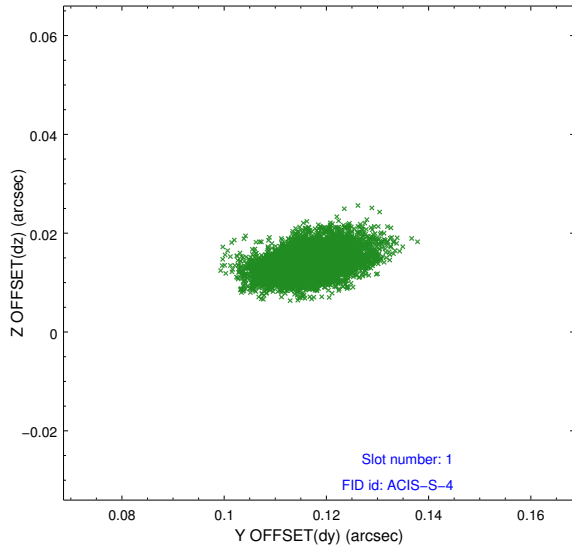


## 2.5 FID Slots

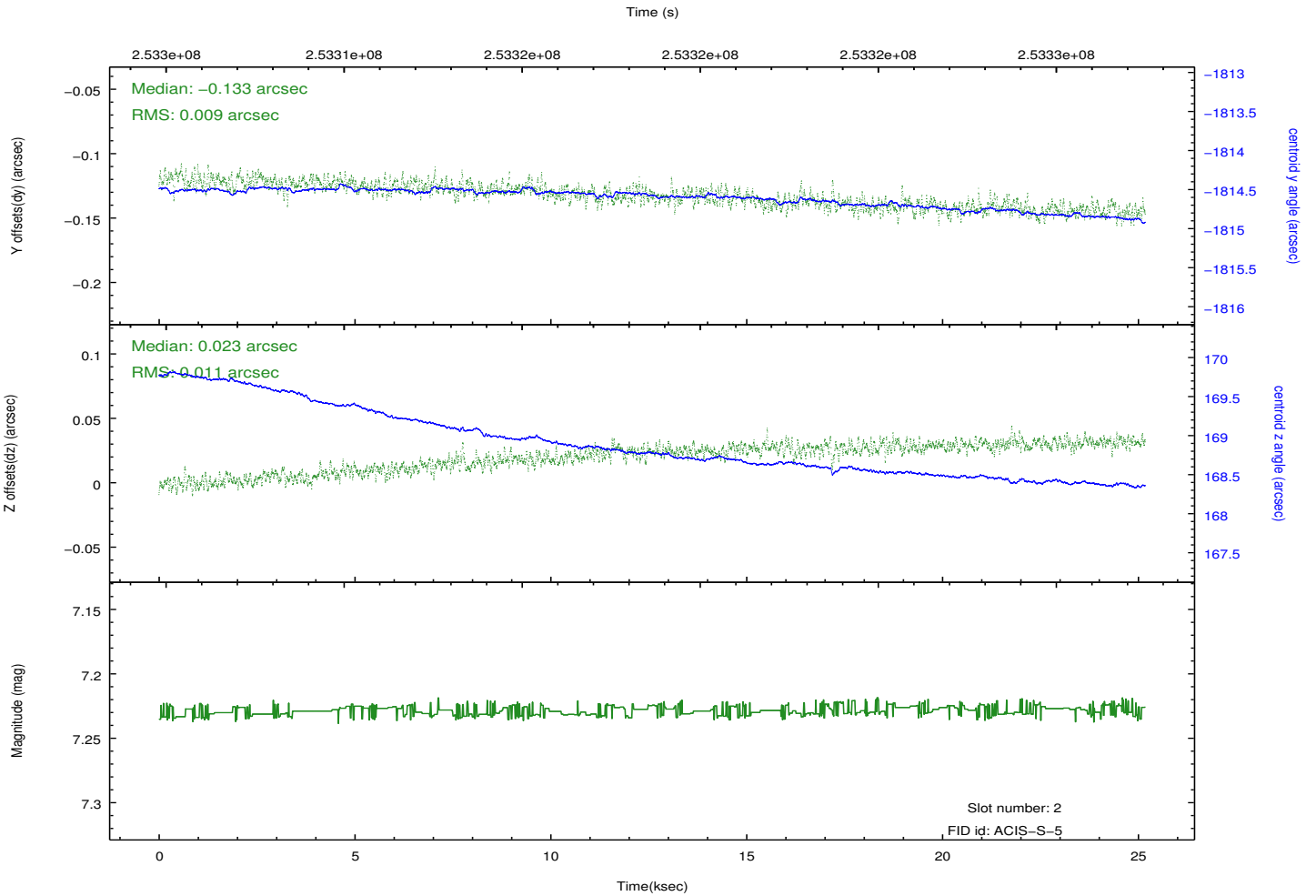
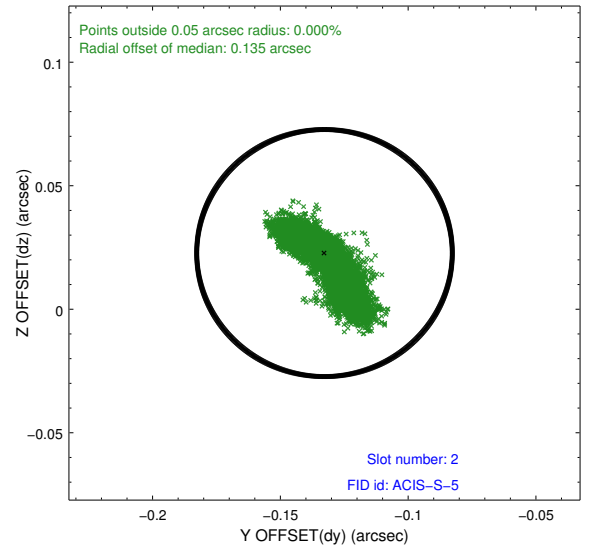
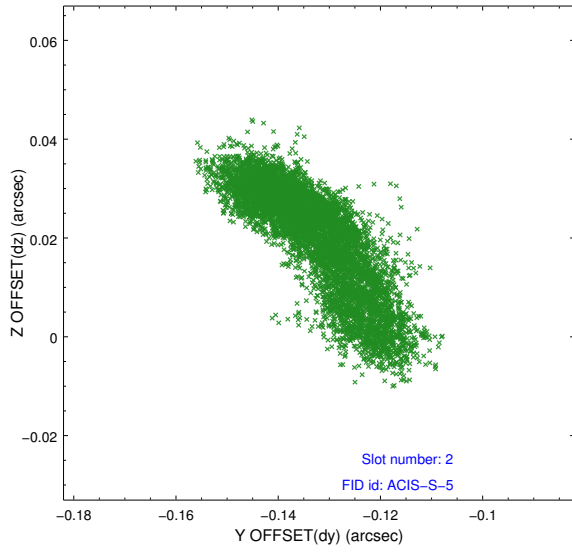
### 2.5.1 Slot 0



## 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)	2012.03.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.1750999

## A.2 Comments