

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6738 - L2 Version 2  
Chandra X-Ray Center

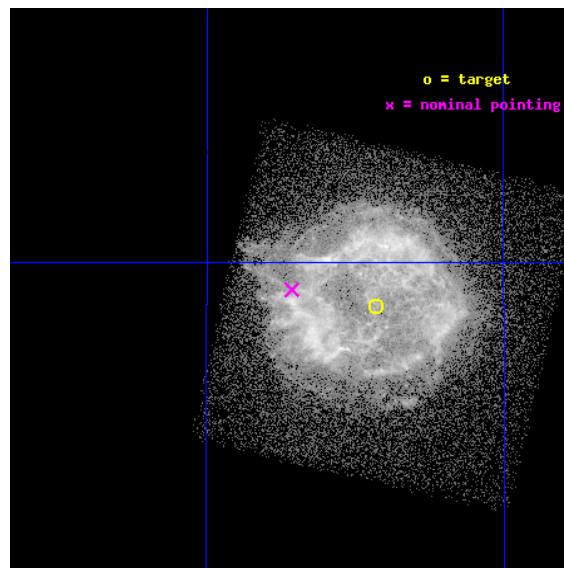
L2 Processing Date : Mar 28 2012

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# 1 Front

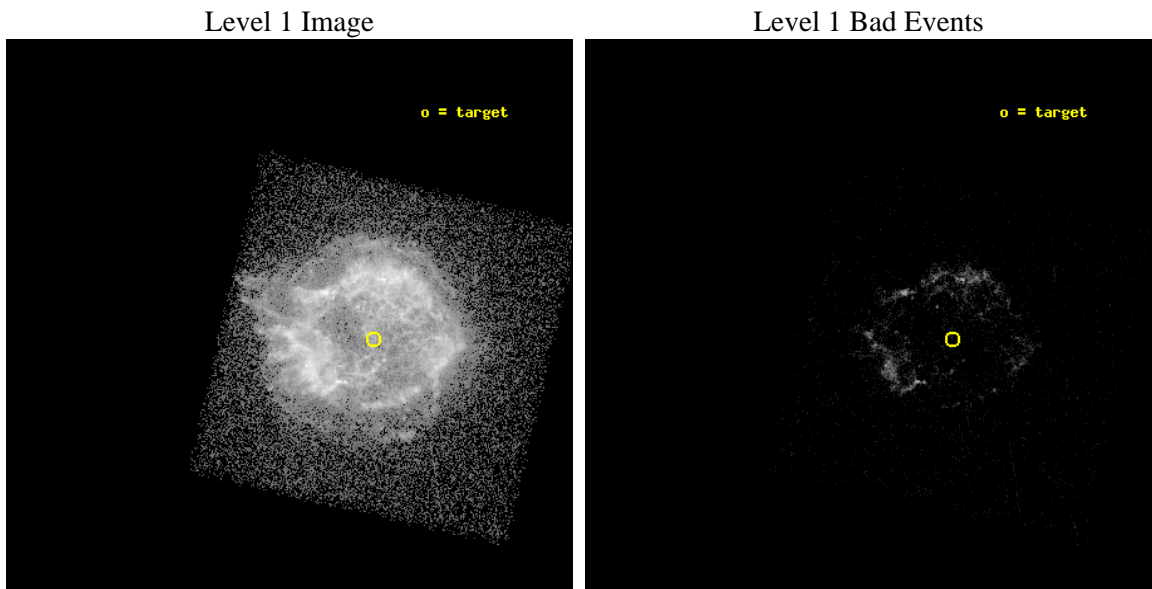
seq_num	590421	Sequence number
obs_id	6738	Observation id
title	AO7 Observations of the Standard Candles Cas A and G21.5-09	Propos
observer	Dr. CXC Calibration	Principal investigator
object	Cas A[S3,-120,-2.0,0,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.92843815724	Nominal RA [deg]
dec_nom	58.821711649098	Nominal Dec [deg]
roll_nom	13.105769471607	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1231.5896286368	Sum of GTIs [s]
livetime	1215.9944991848	Livetime [s]
ontime2	1849.7819735706	Sum of GTIs [s]
ontime3	1995.461286366	Sum of GTIs [s]
ontime5	2040.9169003963	Sum of GTIs [s]
ontime6	1989.0204456151	Sum of GTIs [s]
ontime7	1231.5896286368	Sum of GTIs [s]
ontime8	2034.3118498027	Sum of GTIs [s]
l2events	365733	Number of level 2 events



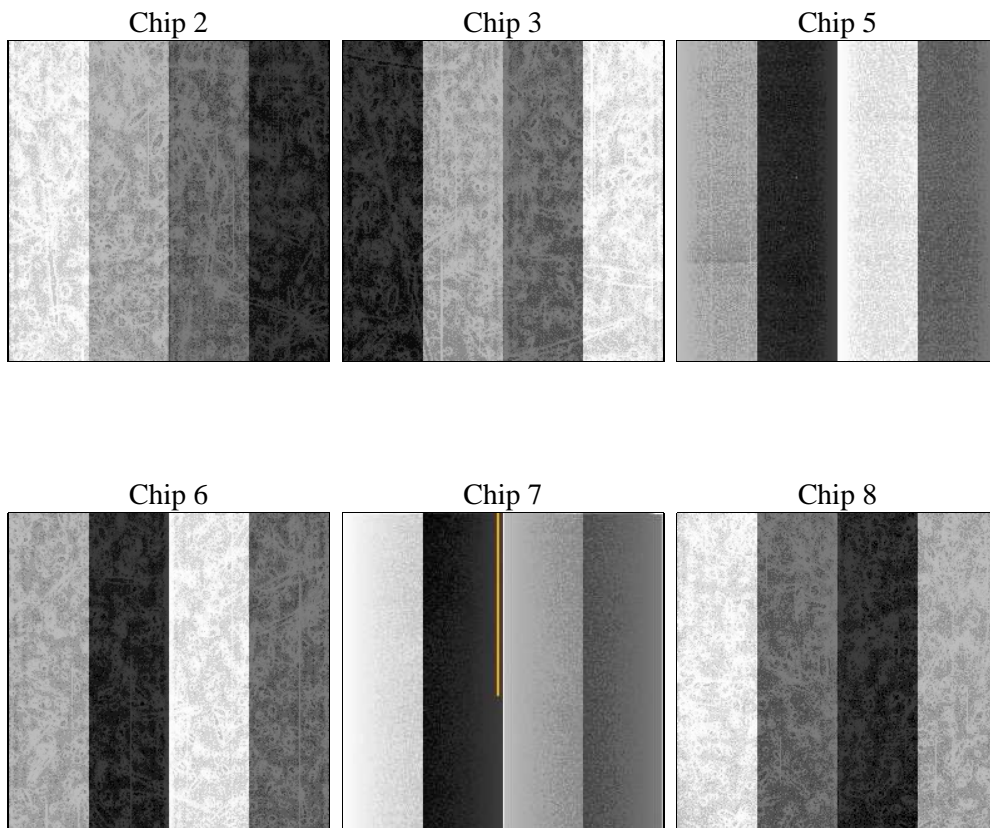
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1231.5896286368	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	1849.7819735706	Sum of GTIs [s]
date	2012-03-28T20:48:29	Date and time of file creation	ontime3	1995.461286366	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	2040.9169003963	Sum of GTIs [s]
			ontime6	1989.0204456151	Sum of GTIs [s]
			ontime7	1231.5896286368	Sum of GTIs [s]
			ontime8	2034.3118498027	Sum of GTIs [s]
			l1events	391905	Number of level 1 events

### 2.1.4 Events

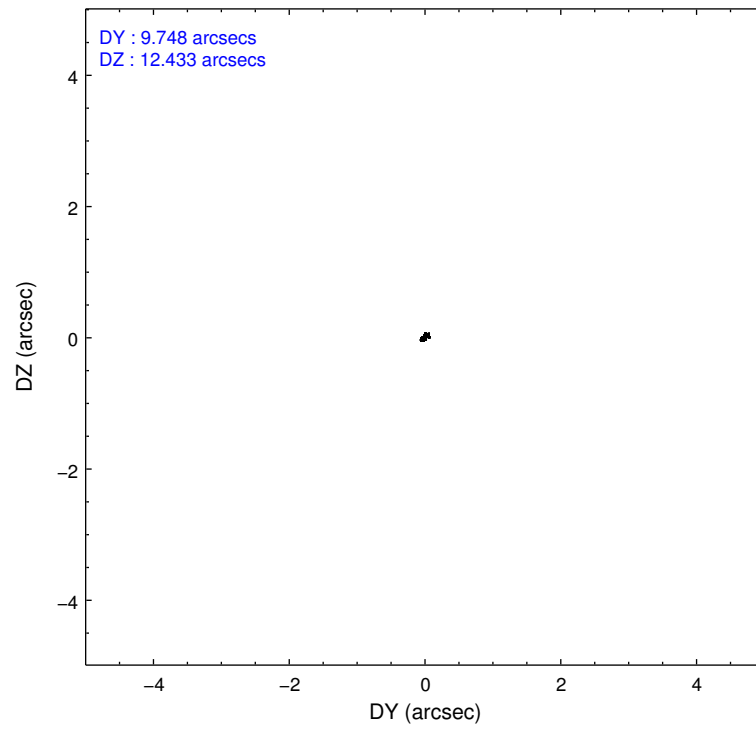
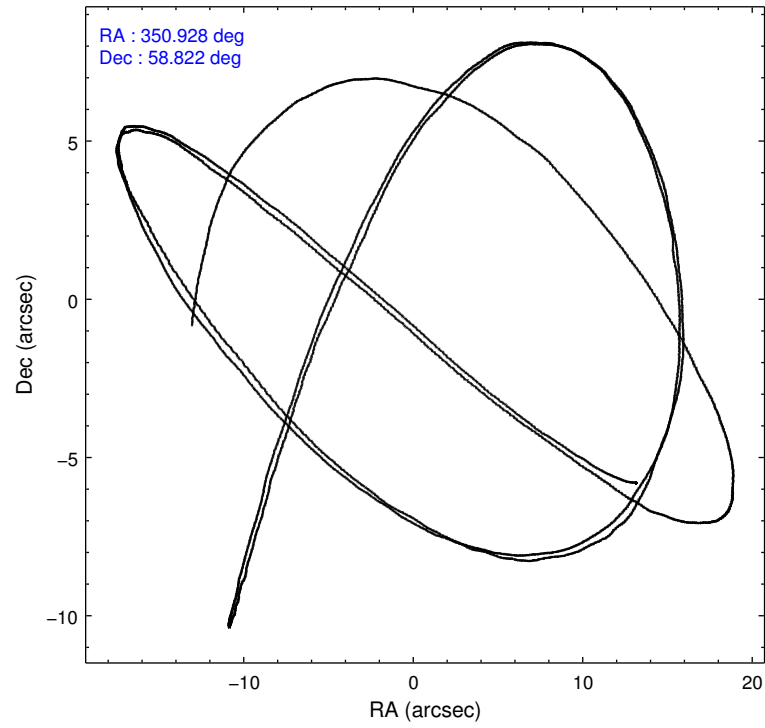
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	0	0	0	0	391905	0
rejected events	0	0	0	0	22583	0
rejected %	0%	0%	0%	0%	5%	0%

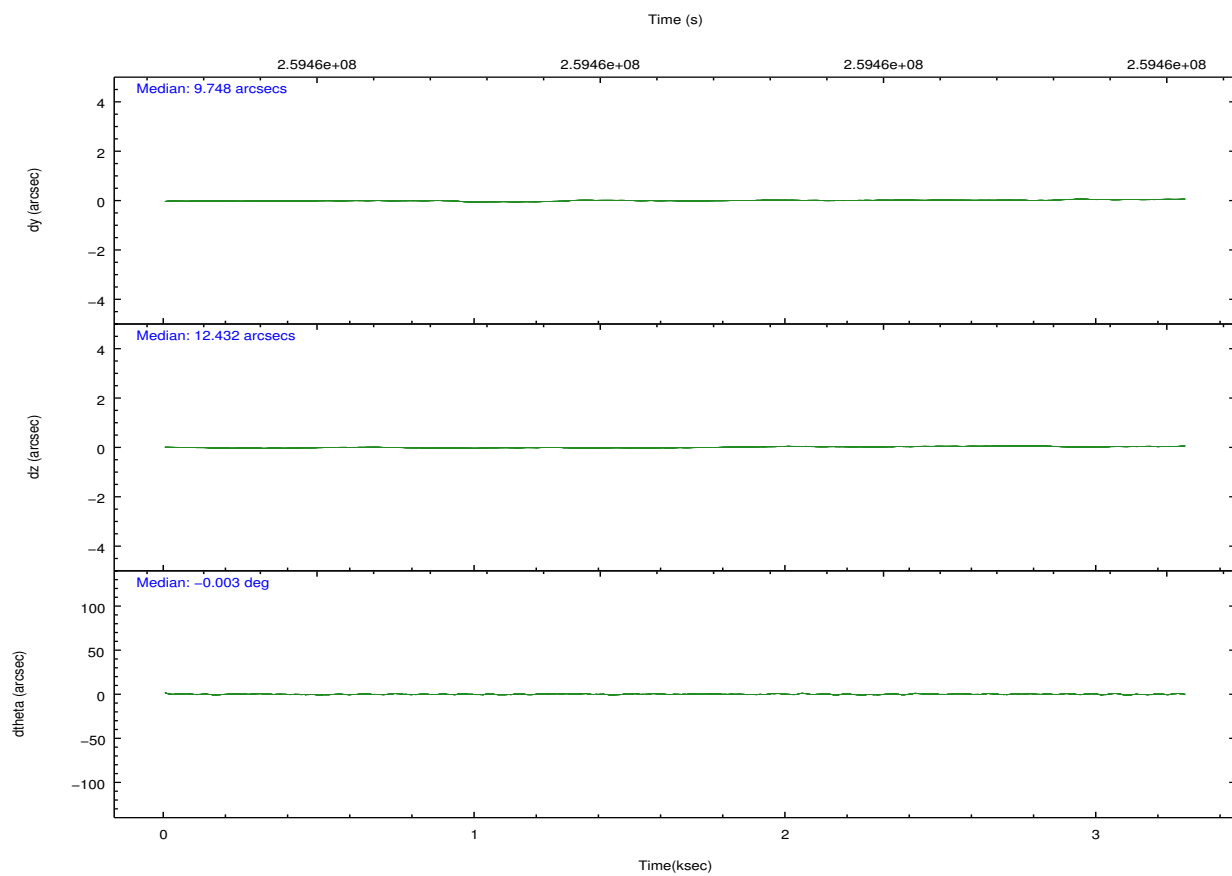
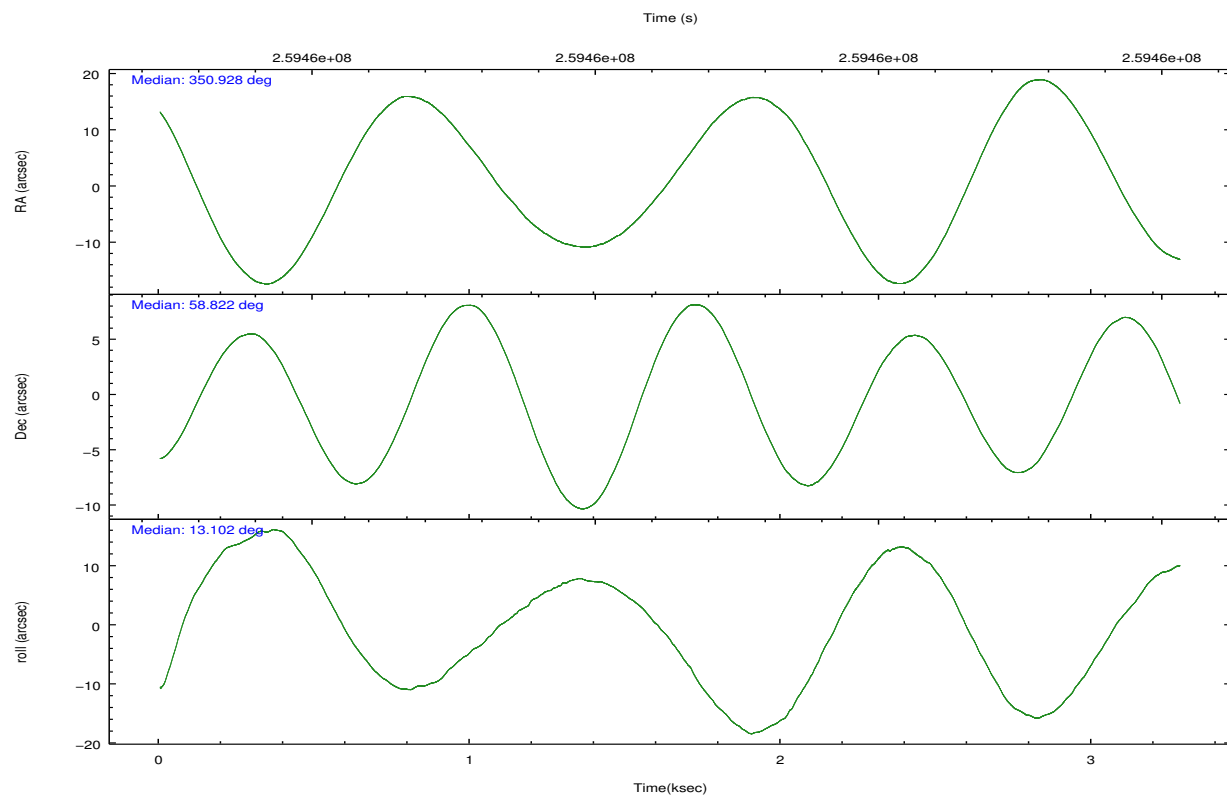
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	0	0	0	0	92526	0
	0%	0%	0%	0%	23%	0%
grade 1 events	0	0	0	0	2006	0
	0%	0%	0%	0%	0%	0%
grade 2 events	0	0	0	0	99103	0
	0%	0%	0%	0%	25%	0%
grade 3 events	0	0	0	0	44059	0
	0%	0%	0%	0%	11%	0%
grade 4 events	0	0	0	0	43304	0
	0%	0%	0%	0%	11%	0%
grade 5 events	0	0	0	0	7359	0
	0%	0%	0%	0%	1%	0%
grade 6 events	0	0	0	0	91311	0
	0%	0%	0%	0%	23%	0%
grade 7 events	0	0	0	0	12237	0
	0%	0%	0%	0%	3%	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	350.890650	350.9284381572404	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.802714	58.82171164909798	Alternating exposures requested	N	N
[deg] Pointing Roll	12.981483	13.1057694716069	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	255139265.184000	255139265.184000			
[s] Window stop time (MET)	262742465.184000	262742465.184000			
[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)	259457912.184000	259456354.84072			
Observation start date	2006-03-22T23:37:27	2006-03-22T23:12:34			
[s] Observation end time (MET)	259459912.184000	259460162.20339			
Observation end date	2006-03-23T00:10:47	2006-03-23T00:16:02			
Read mode	TIMED	TIMED			

## 2.3 Aspect





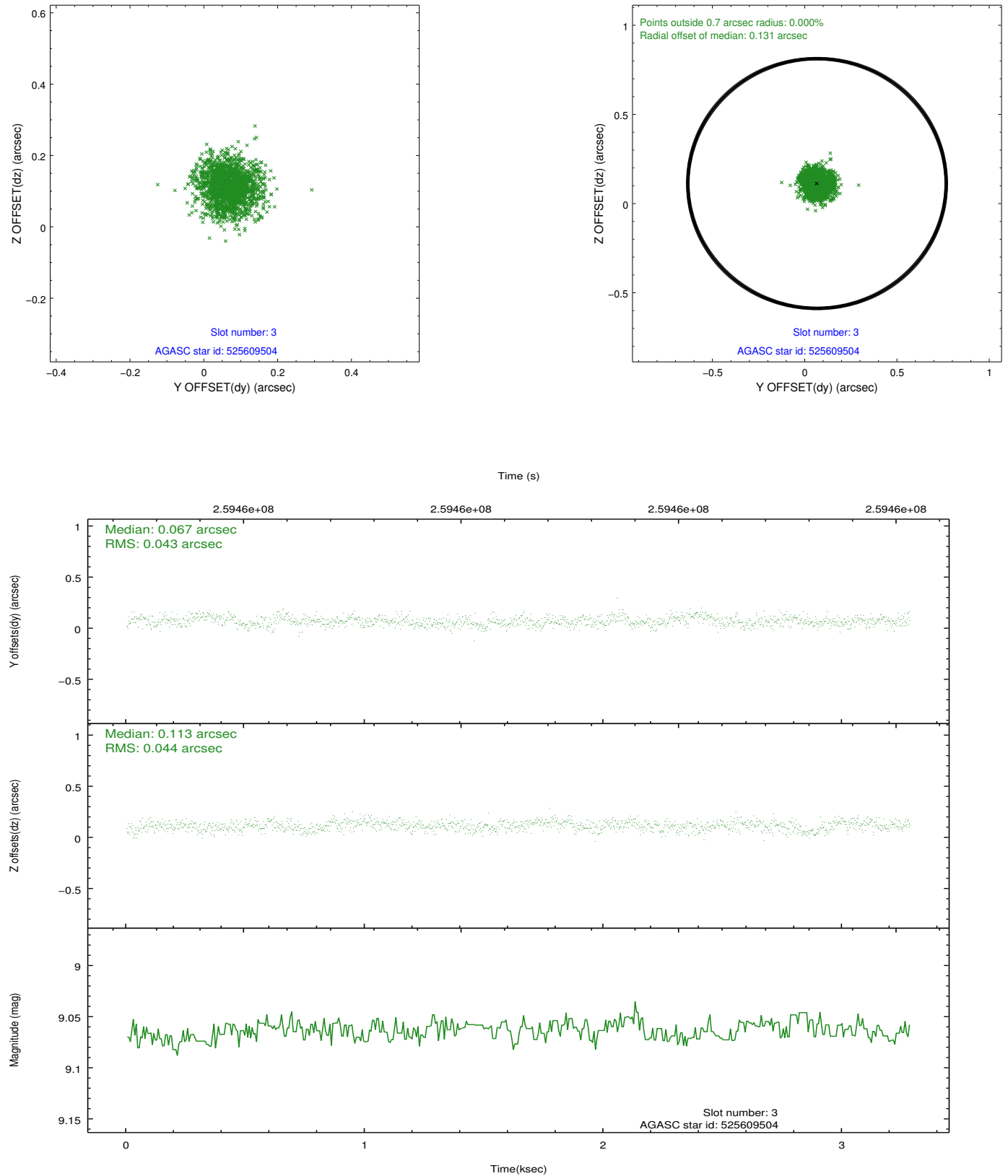
### Slot Statistics

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	801	-0.020	-0.043	0.006	0.011	0.000000	0.000000	-762.62	-1733.78
1	FID	ACIS-S-4	7.20	801	0.137	0.021	0.005	0.010	0.000000	0.000000	2149.96	172.72
2	FID	ACIS-S-5	7.23	801	-0.148	0.031	0.007	0.011	0.000000	0.000000	-1813.08	168.66
3	GUIDE	525609504	9.06	1602	0.067	0.113	0.066	0.104	349.896632	58.356658	-2186.68	-1129.84
4	GUIDE	525732232	9.12	1602	0.133	-0.002	0.069	0.112	351.669550	58.757012	1381.83	-480.59
5	GUIDE	525732528	9.35	1601	-0.029	0.024	0.116	0.184	351.607241	59.298932	1687.33	1451.27
6	GUIDE	525735456	6.73	1602	-0.110	-0.204	0.049	0.073	350.628183	59.307249	-60.68	1879.52
7	GUIDE	525735976	8.84	1600	-0.057	0.063	0.078	0.122	350.142956	58.277622	-1801.74	-1515.69

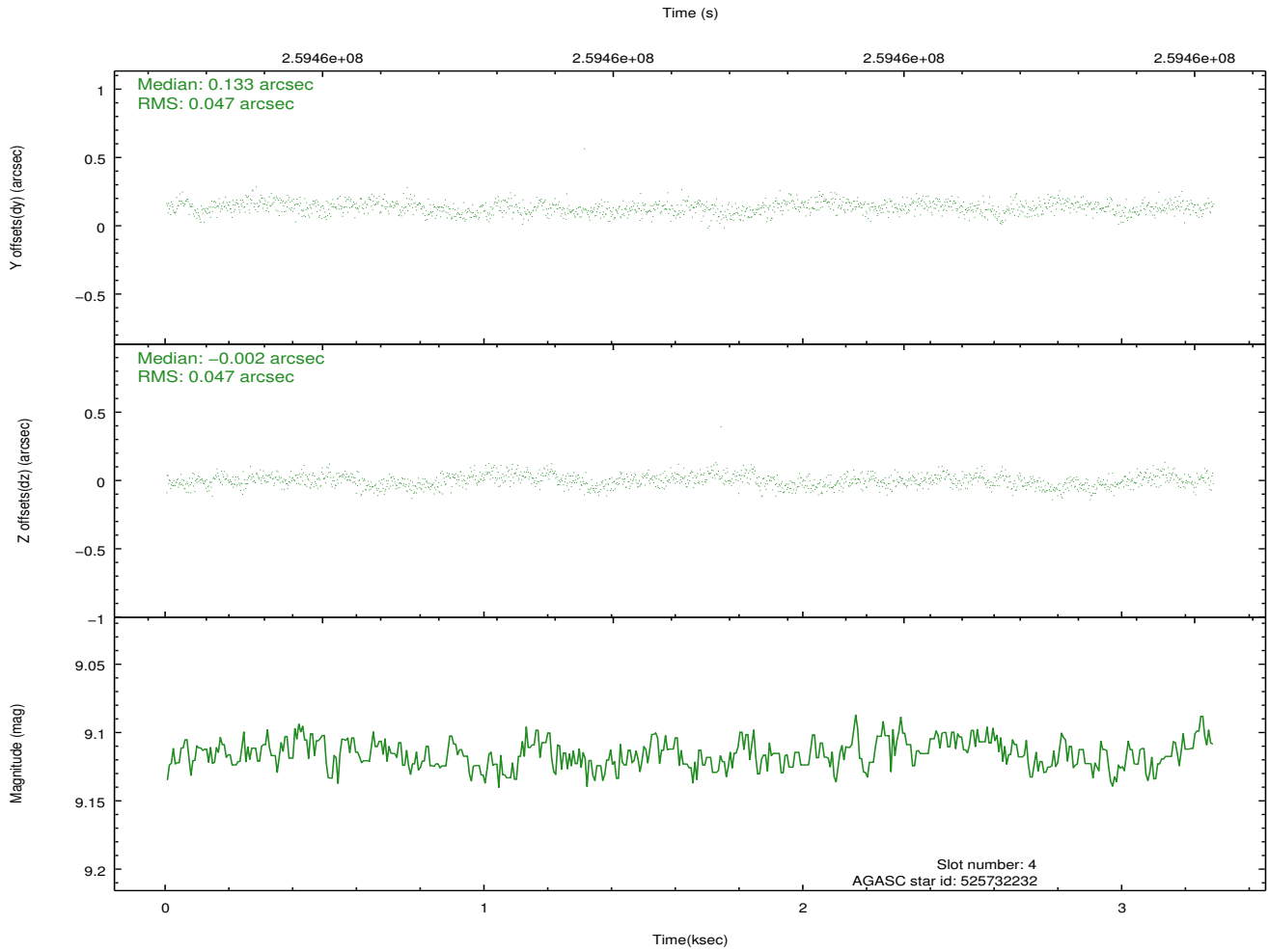
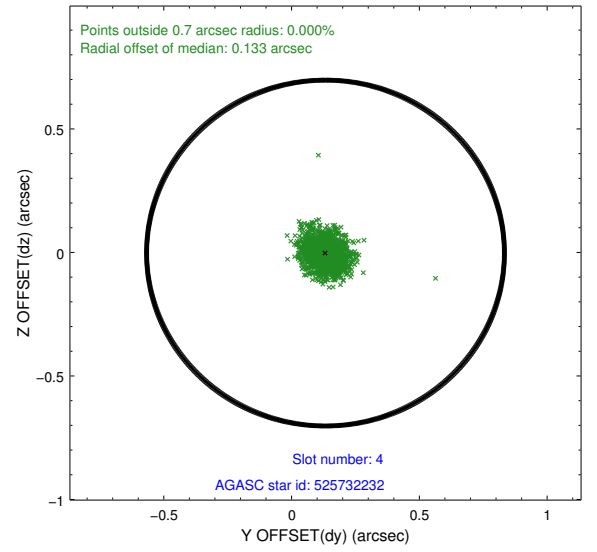
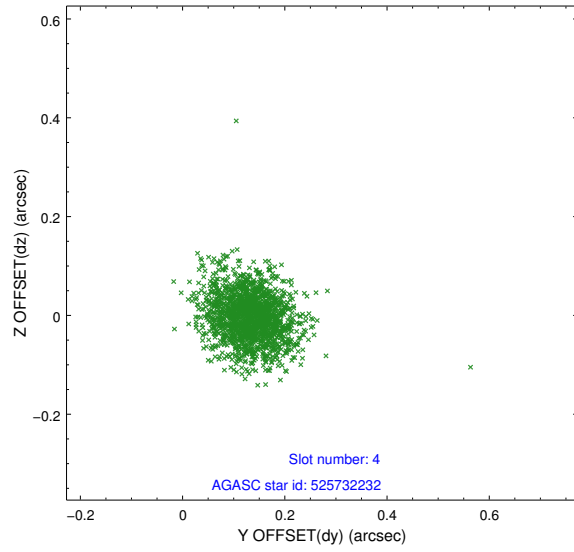


## 2.4 Star Slots

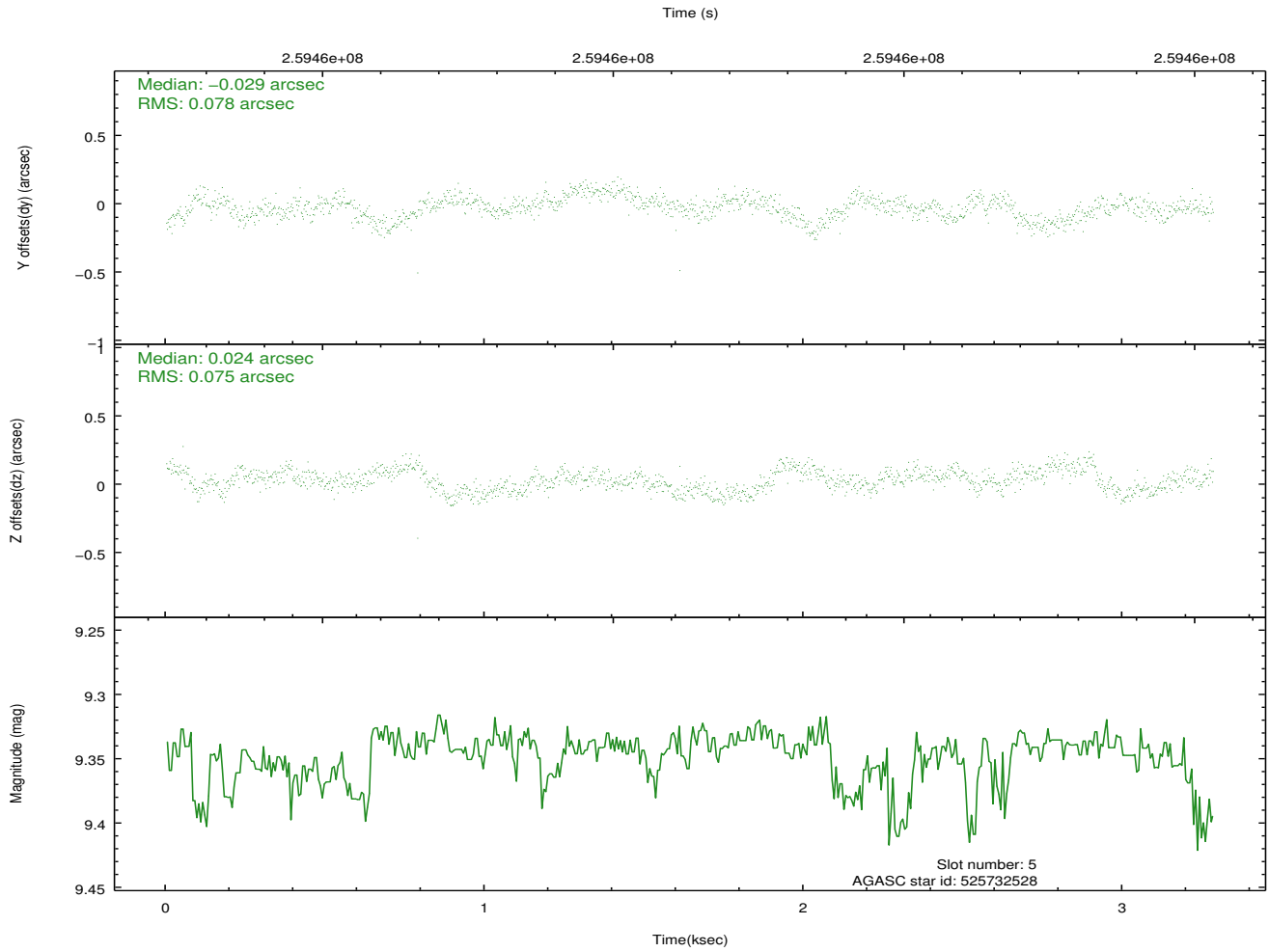
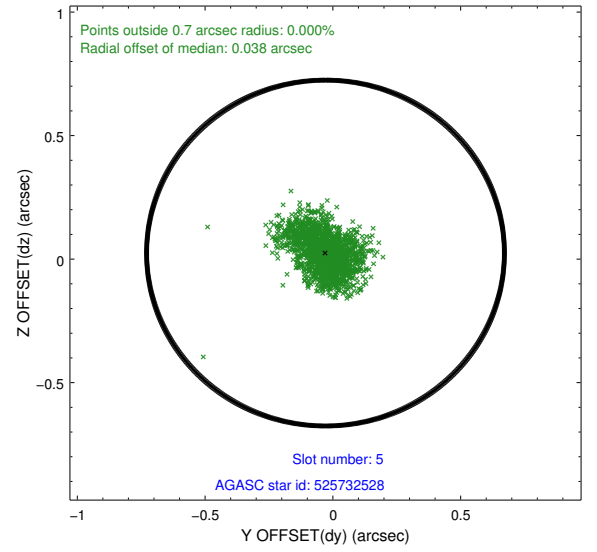
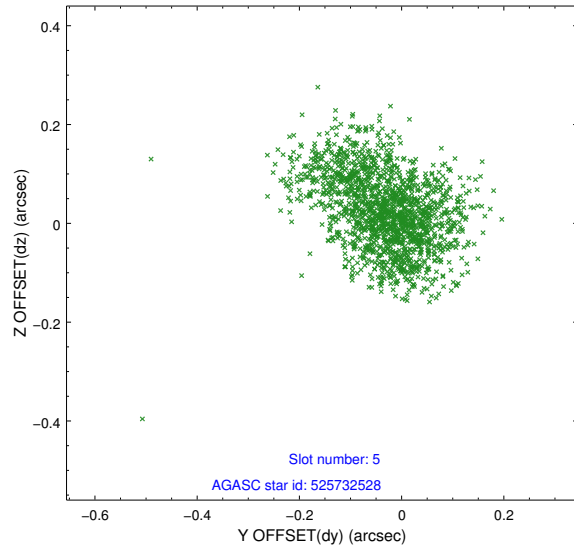
### 2.4.1 Slot 3



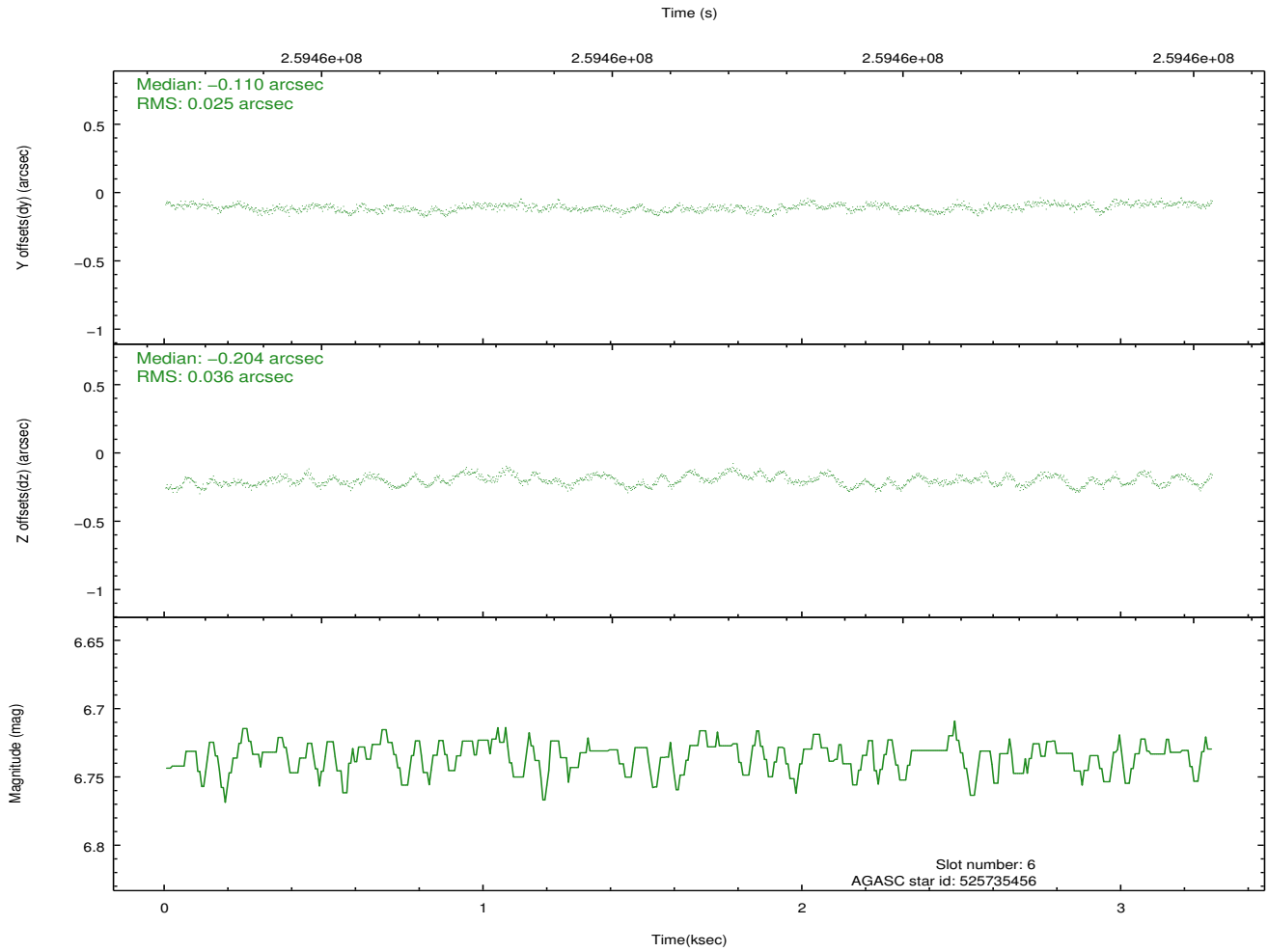
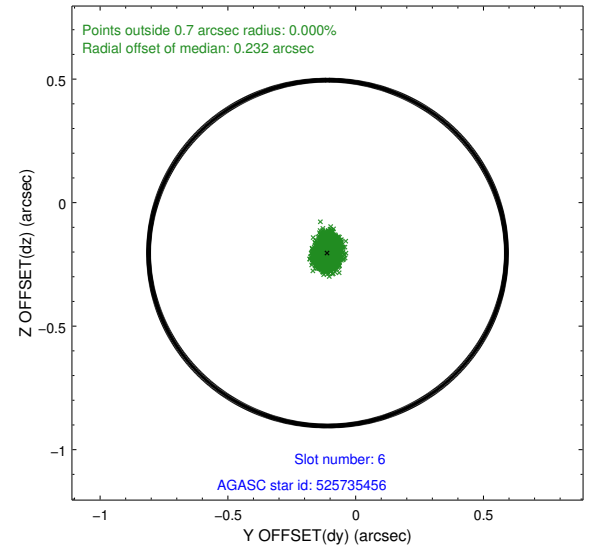
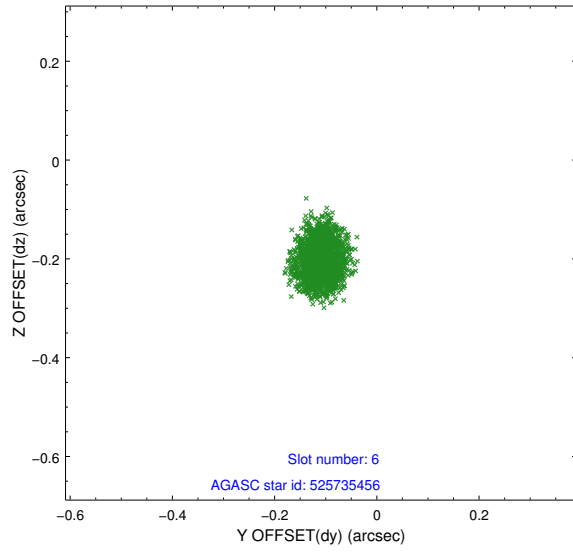
## 2.4.2 Slot 4



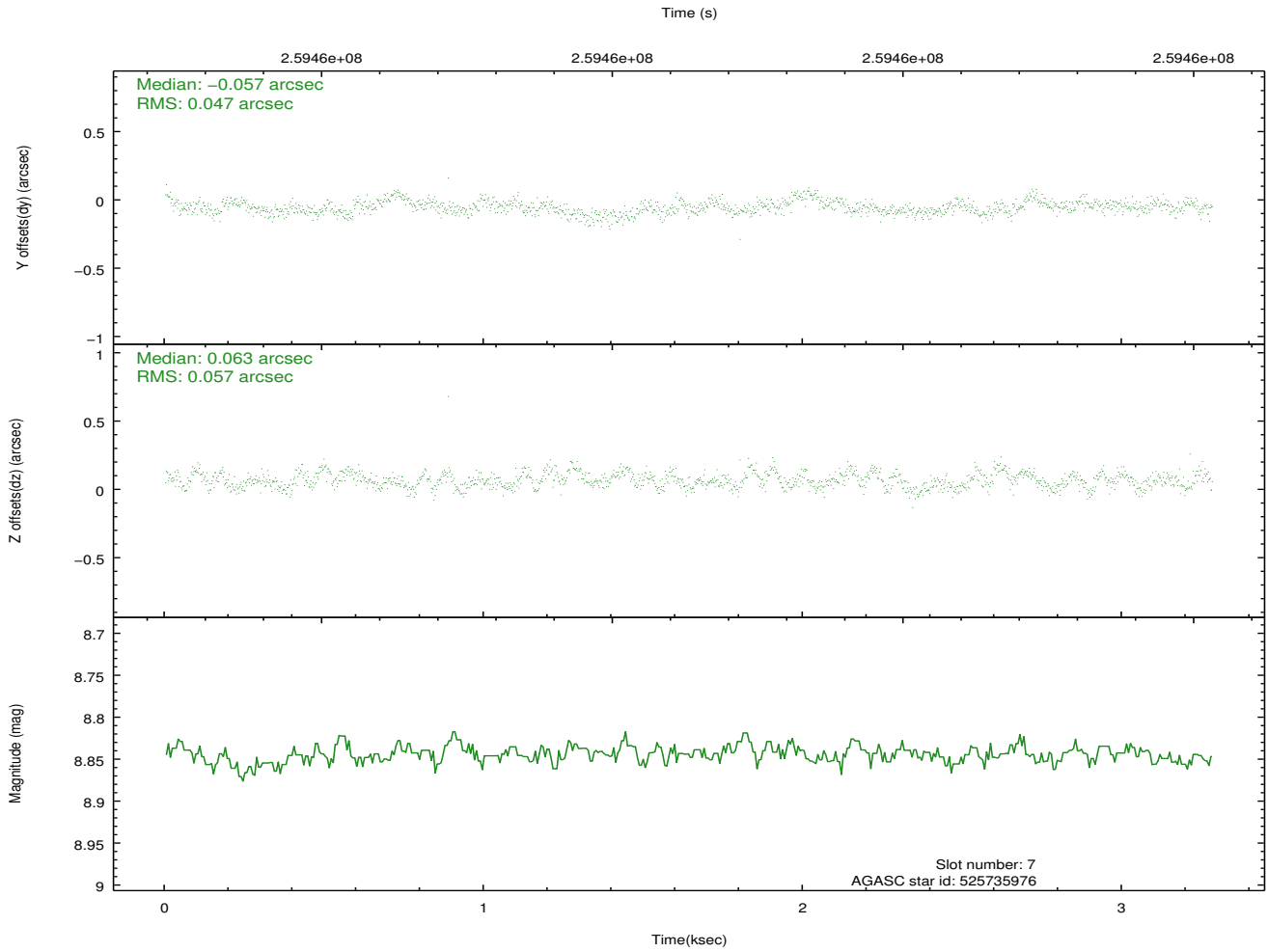
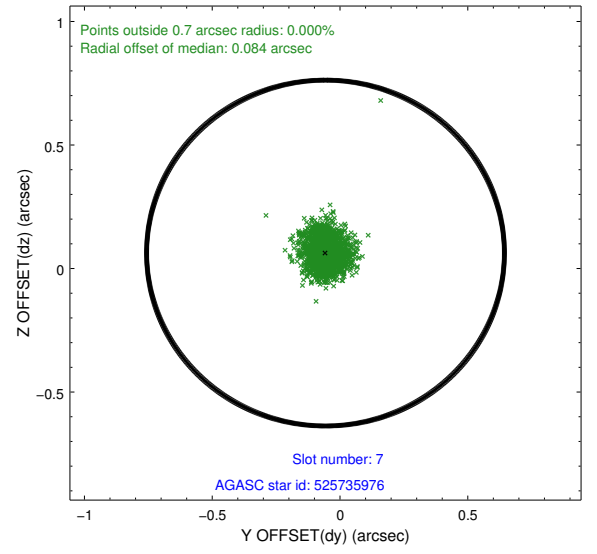
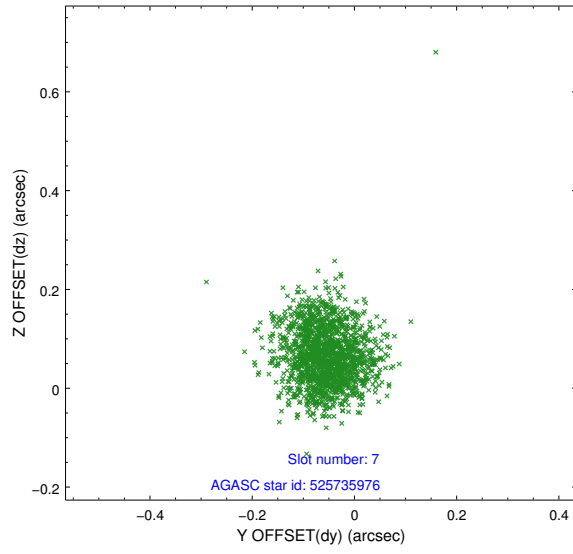
### 2.4.3 Slot 5



## 2.4.4 Slot 6

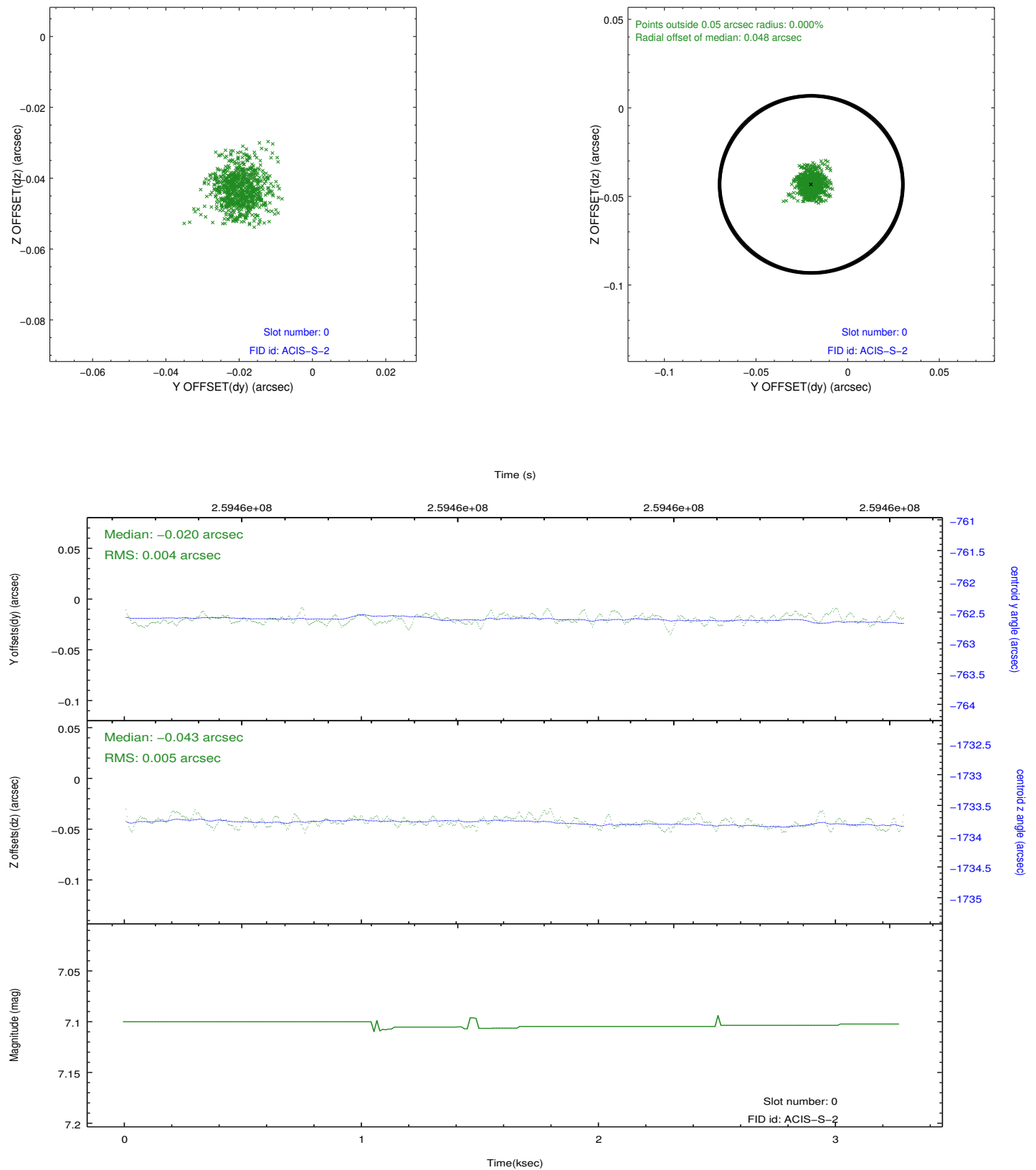


## 2.4.5 Slot 7

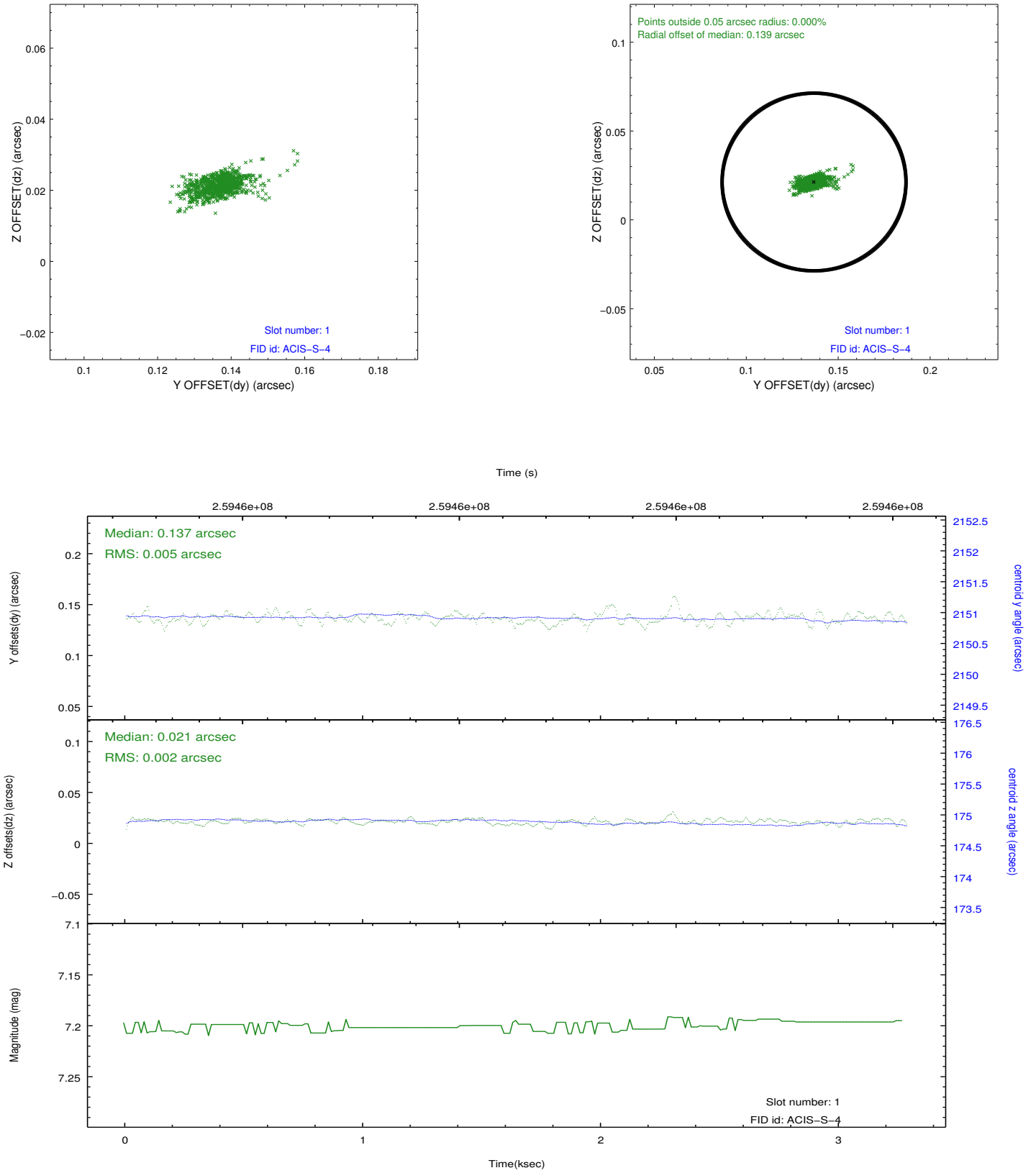


## 2.5 FID Slots

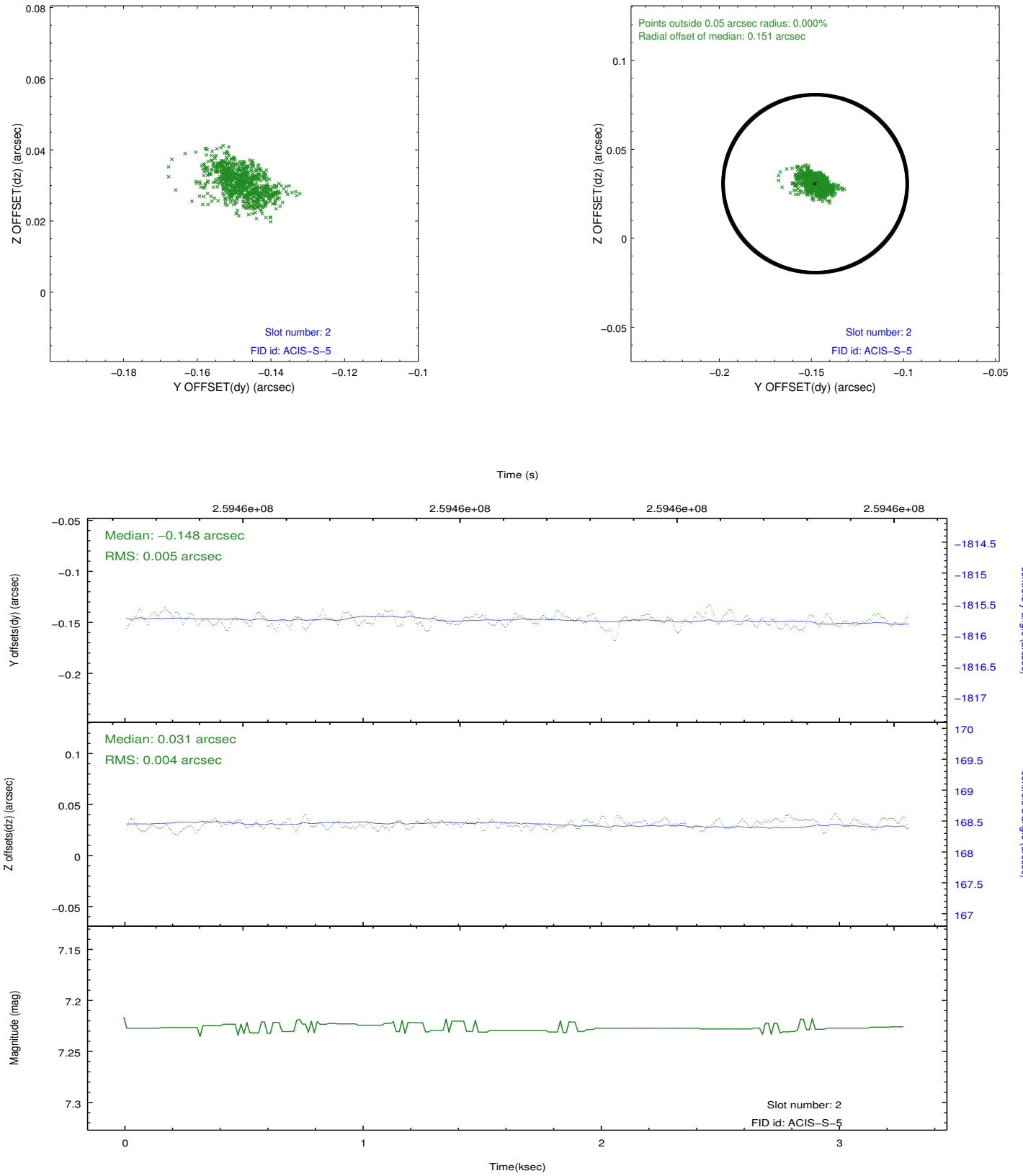
### 2.5.1 Slot 0



## 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)	2012.03.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.23135941

### A.2 Comments

Window preference met.