

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9117 - L2 Version 2  
Chandra X-Ray Center

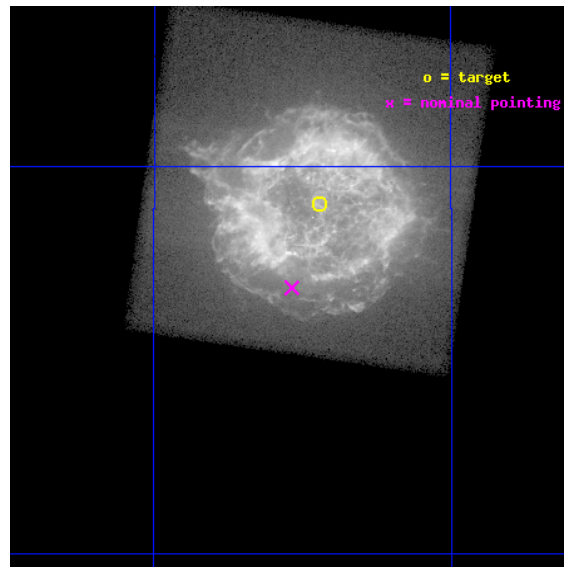
L2 Processing Date : May 6 2012

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# 1 Front

seq_num	500979	Sequence number
obs_id	9117	Observation id
title	Investigating the X-ray Variability of Cassiopeia A	Proposal title
observer	Daniel Patnaude	Principal investigator
object	Cassiopeia A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.86125	Observer's specified target RA [deg]
dec_targ	58.8175	Observer's specified target Dec [deg]
ra_nom	350.8841236694	Nominal RA [deg]
dec_nom	58.781345006864	Nominal Dec [deg]
roll_nom	278.13708049794	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25179.0	Sum of GTIs [s]
livetime	24839.199747455	Livetime [s]
ontime7	25179.0	Sum of GTIs [s]
l2events	7315168	Number of level 2 events

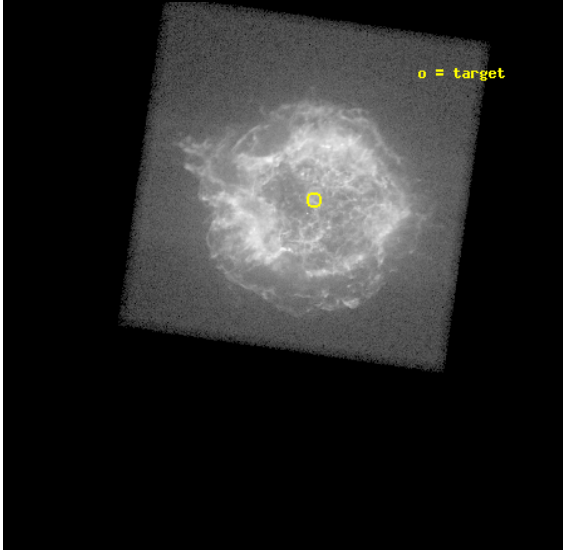


## 2 OBI

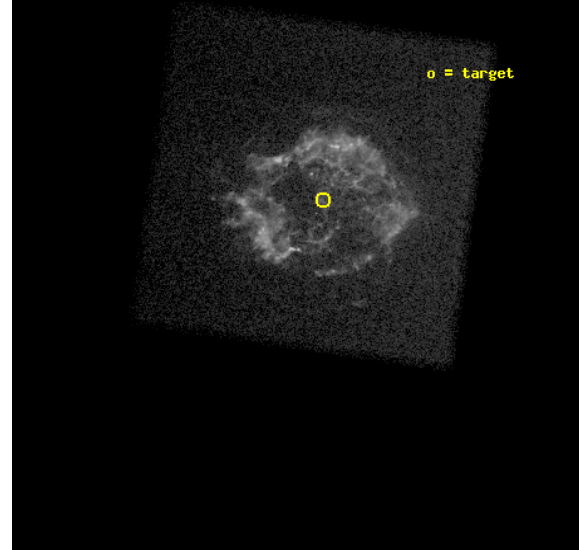
### 2.1 OBI

#### 2.1.1 Images

Level 1 Image



Level 1 Bad Events



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	25179.0	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime7	25179.0	Sum of GTIs [s]
date	2012-05-06T00:49:02	Date and time of file creation	l1events	7925148	Number of level 1 events
revision	2	Processing version of data			

### 2.1.3 Events

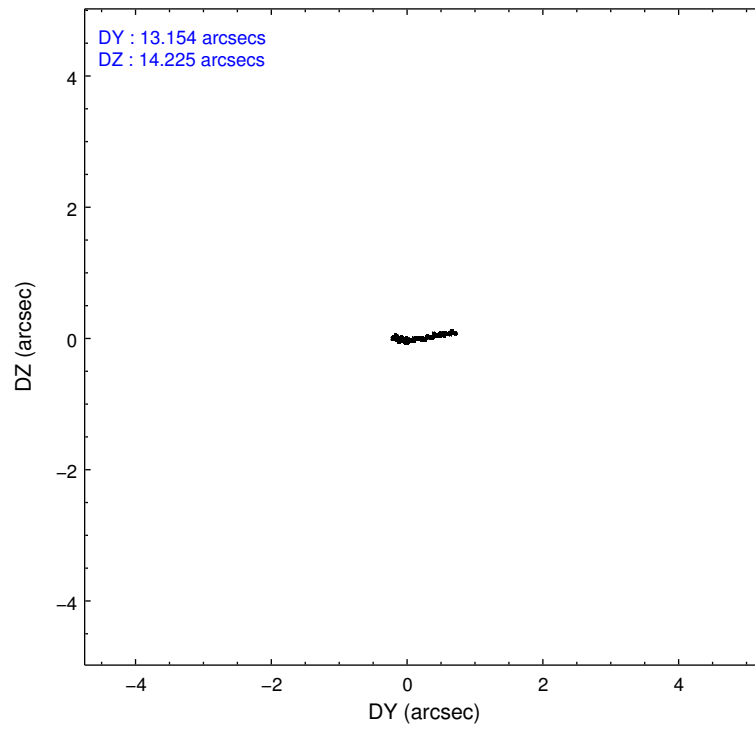
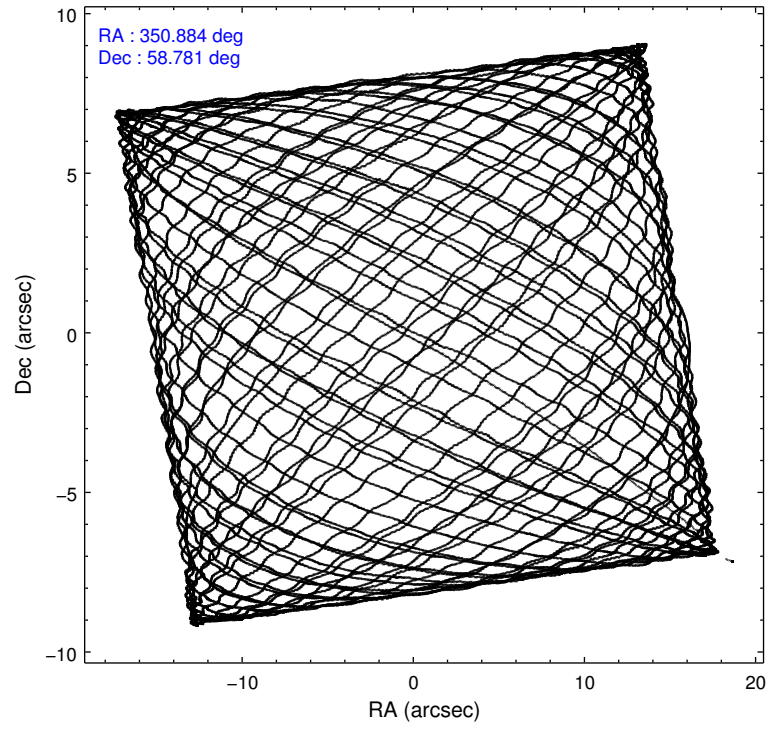
	<b>ccd 7</b>
level 1 events	7925148
rejected events	546337
rejected %	6%

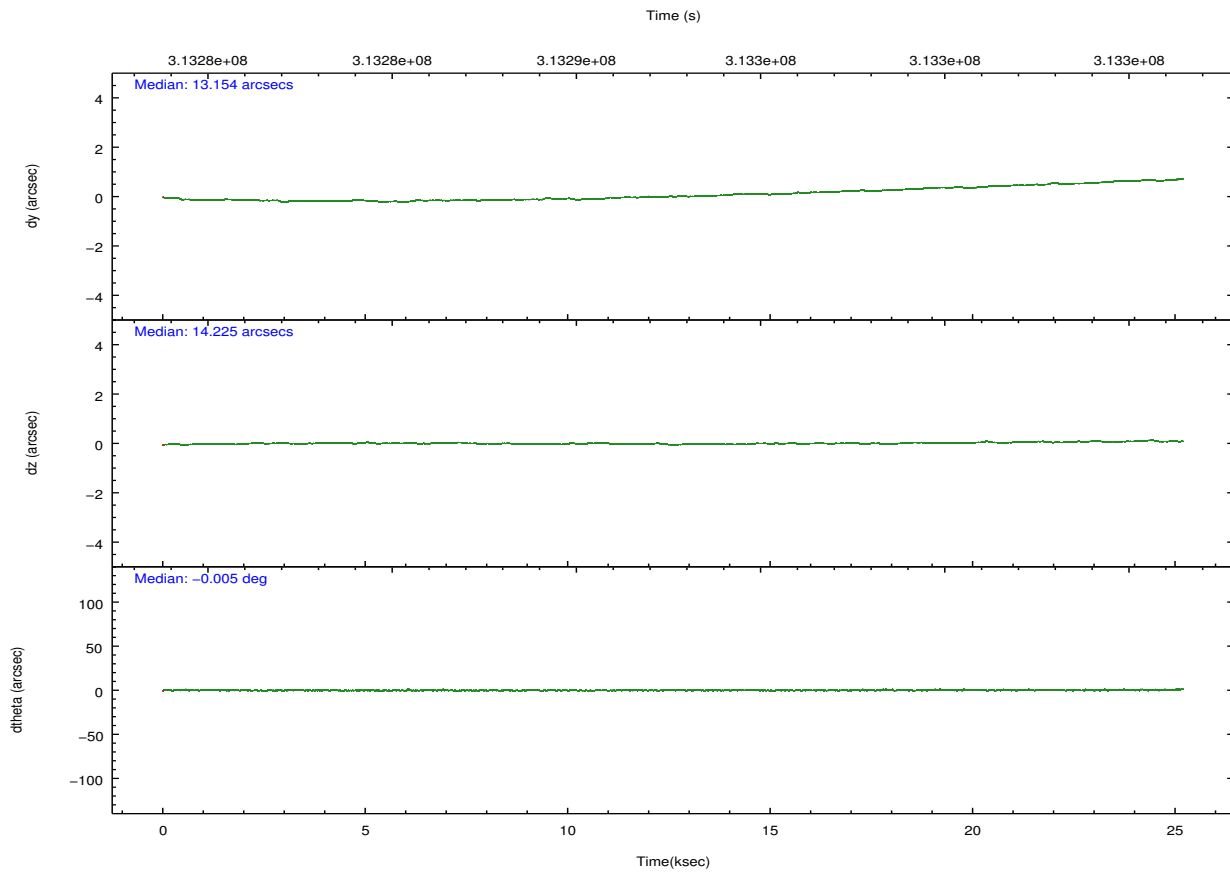
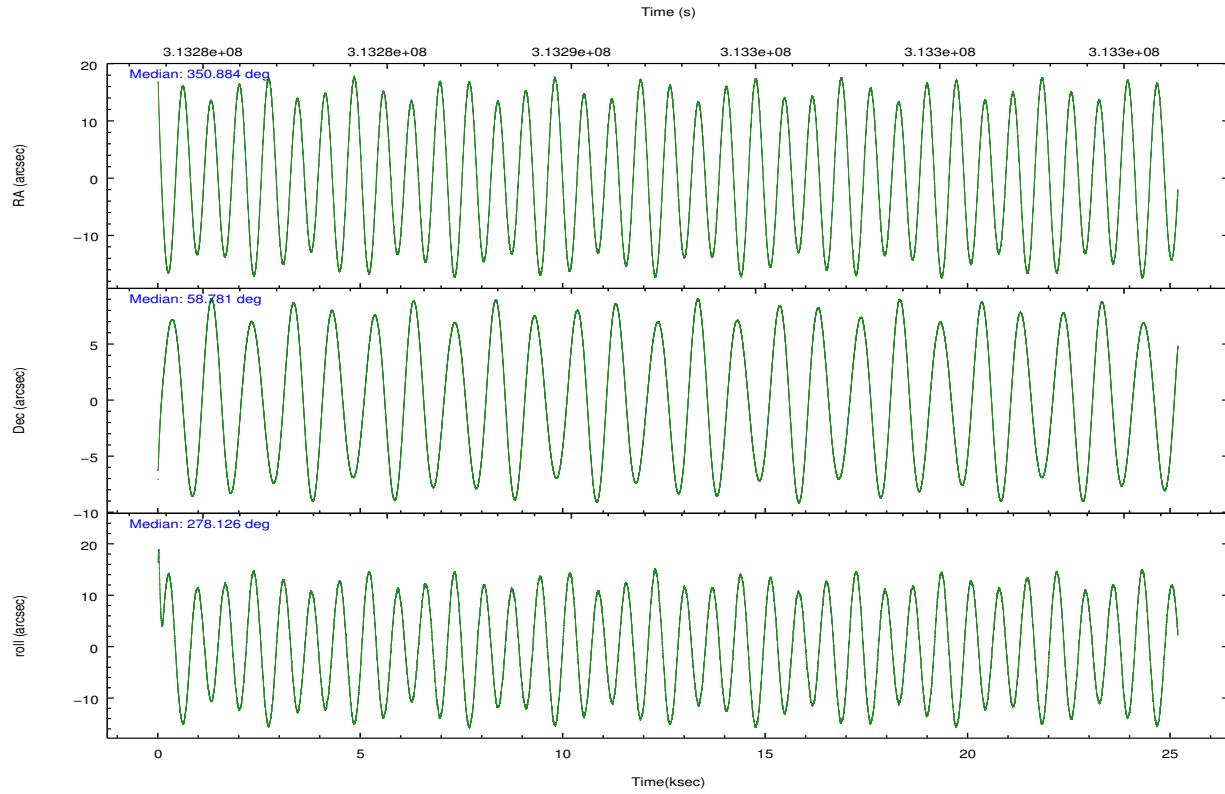
	<b>ccd 7</b>
grade 0 events	1654597
	20%
grade 1 events	29387
	0%
grade 2 events	2204780
	27%
grade 3 events	782954
	9%
grade 4 events	772959
	9%
grade 5 events	141075
	1%
grade 6 events	2005318
	25%
grade 7 events	334078
	4%

## 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	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	350.850983	350.8841236693973	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.802613	58.78134500686406	Alternating exposures requested	N	N
[deg] Pointing Roll	278.008779	278.1370804979448	[s] Primary exposure time	0.000000	3
[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)	313280228.184000	313279319.56889			
Observation start date	2007-12-05T22:16:03	2007-12-05T22:01:59			
[s] Observation end time (MET)	313305228.184000	313306200.19519			
Observation end date	2007-12-06T05:12:43	2007-12-06T05:30:00			
Read mode	TIMED	TIMED			

## 2.3 Aspect



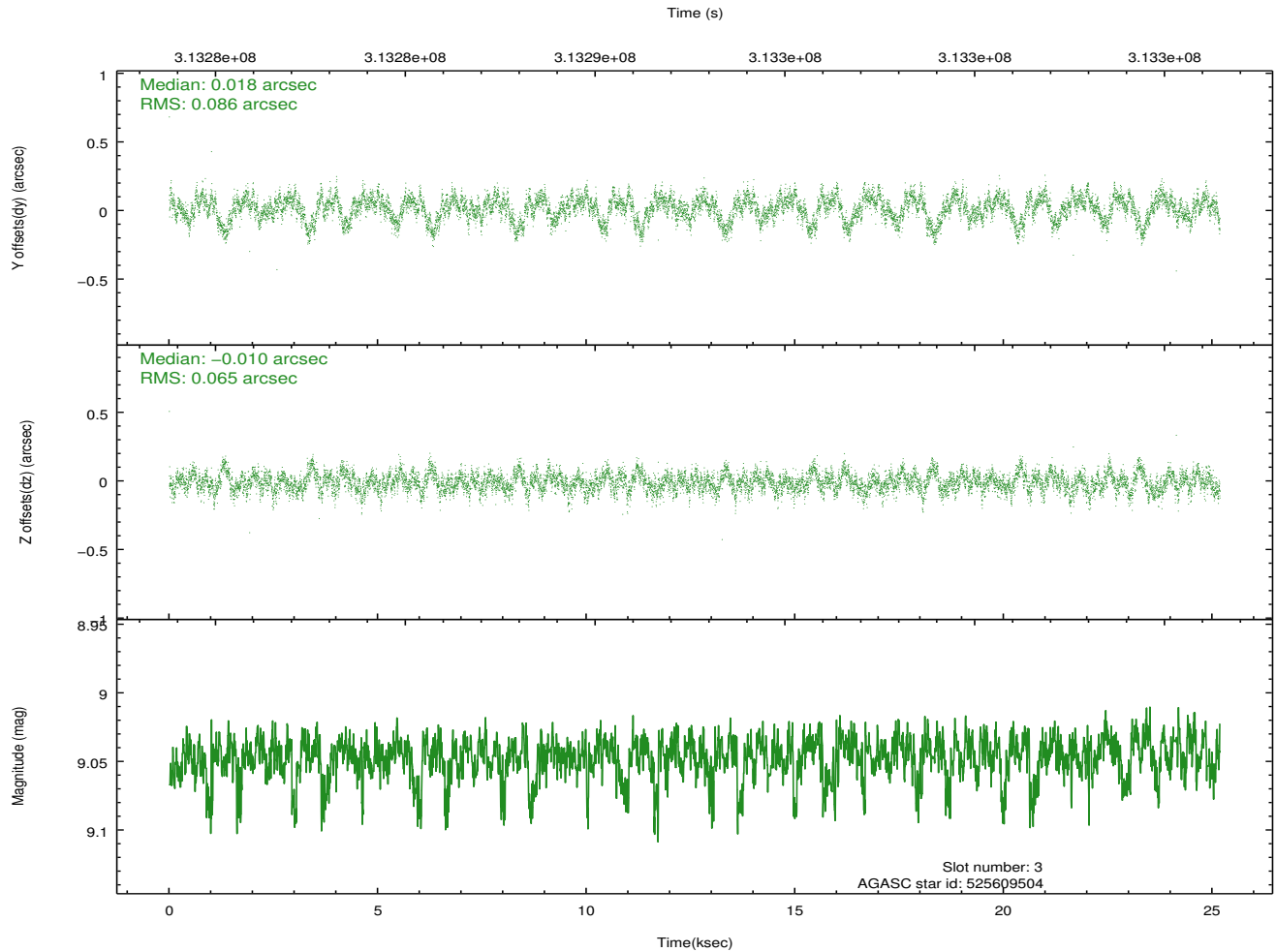
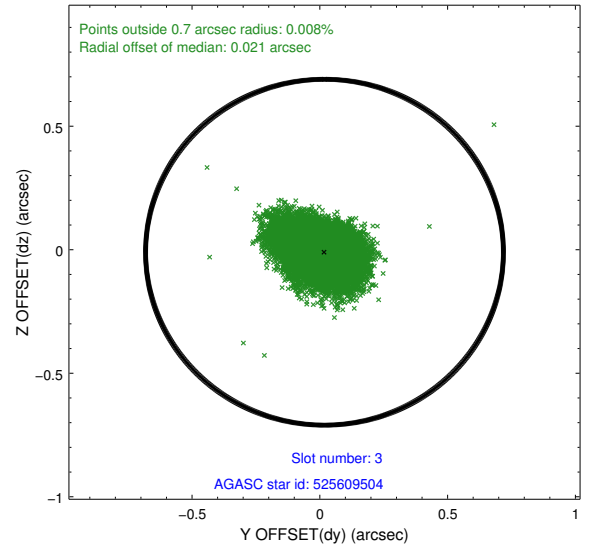
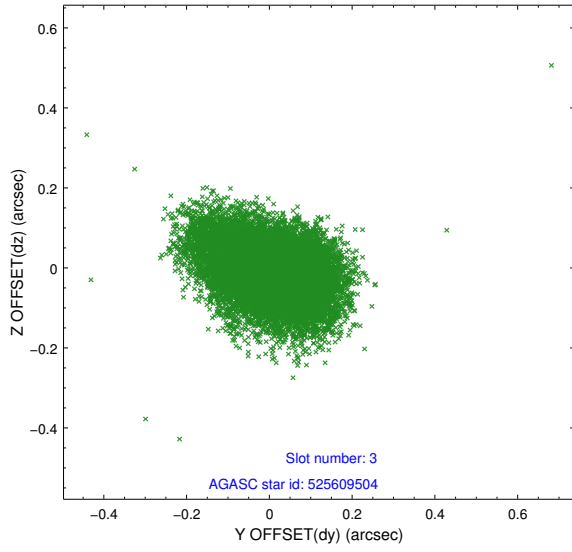


### Slot Statistics

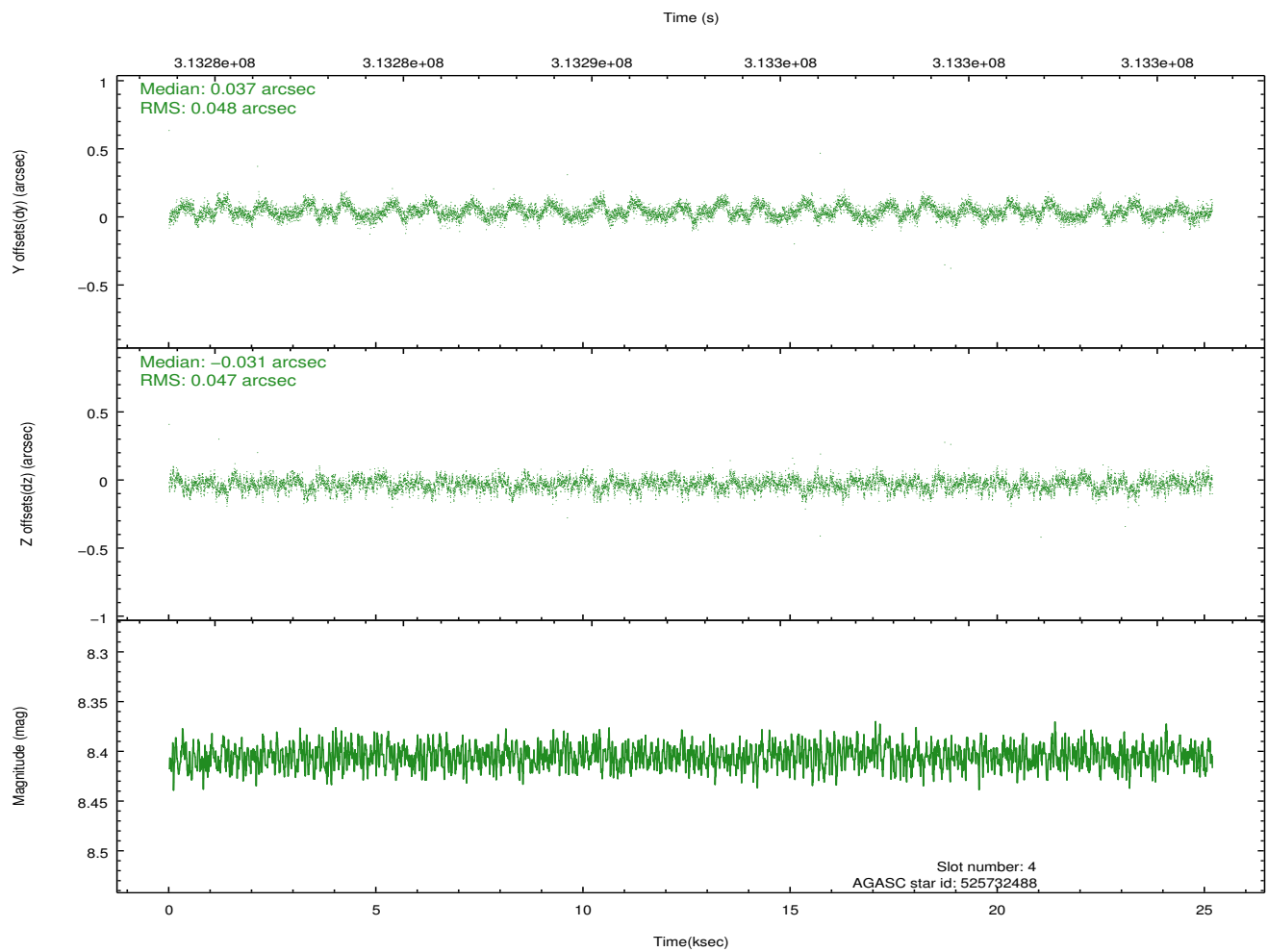
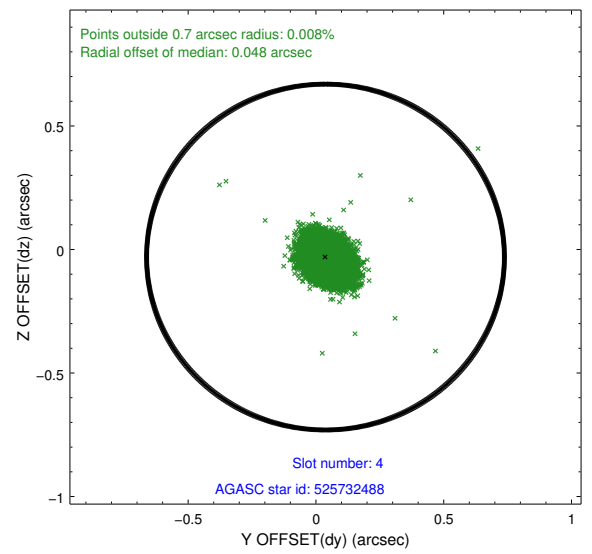
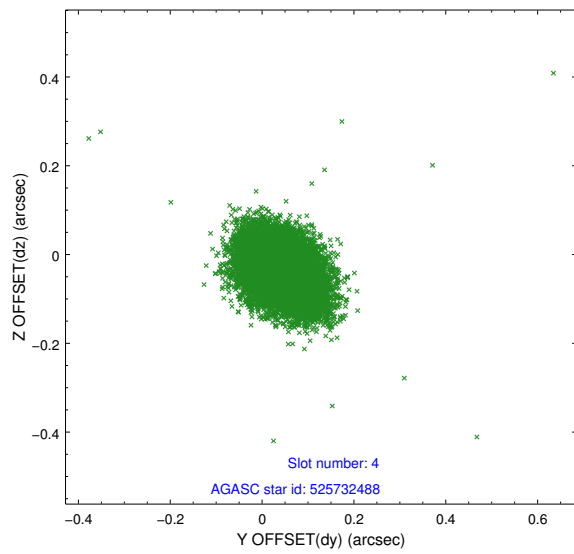
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	6143	-0.049	-0.049	0.009	0.016	0.000000	0.000000	-766.21	-1735.65
1	FID	ACIS-S-4	7.19	6143	0.172	0.037	0.012	0.027	0.000000	0.000000	2147.22	172.83
2	FID	ACIS-S-5	7.22	6142	-0.155	0.021	0.009	0.016	0.000000	0.000000	-1819.03	166.58
3	GUIDE	525609504	9.05	12272	0.018	-0.010	0.112	0.192	349.896632	58.356658	1326.58	-2006.41
4	GUIDE	525732488	8.41	12280	0.037	-0.031	0.070	0.114	350.087090	58.516915	810.97	-1563.89
5	GUIDE	525735976	8.78	12275	0.094	-0.061	0.078	0.124	350.142956	58.277622	1678.58	-1589.11
6	GUIDE	525735456	7.04	12286	-0.081	0.235	0.051	0.078	350.628183	59.307249	-1856.34	-152.21
7	GUIDE	525737896	7.00	12284	-0.063	-0.127	0.053	0.085	352.012180	59.335036	-1619.83	2380.88

## 2.4 Star Slots

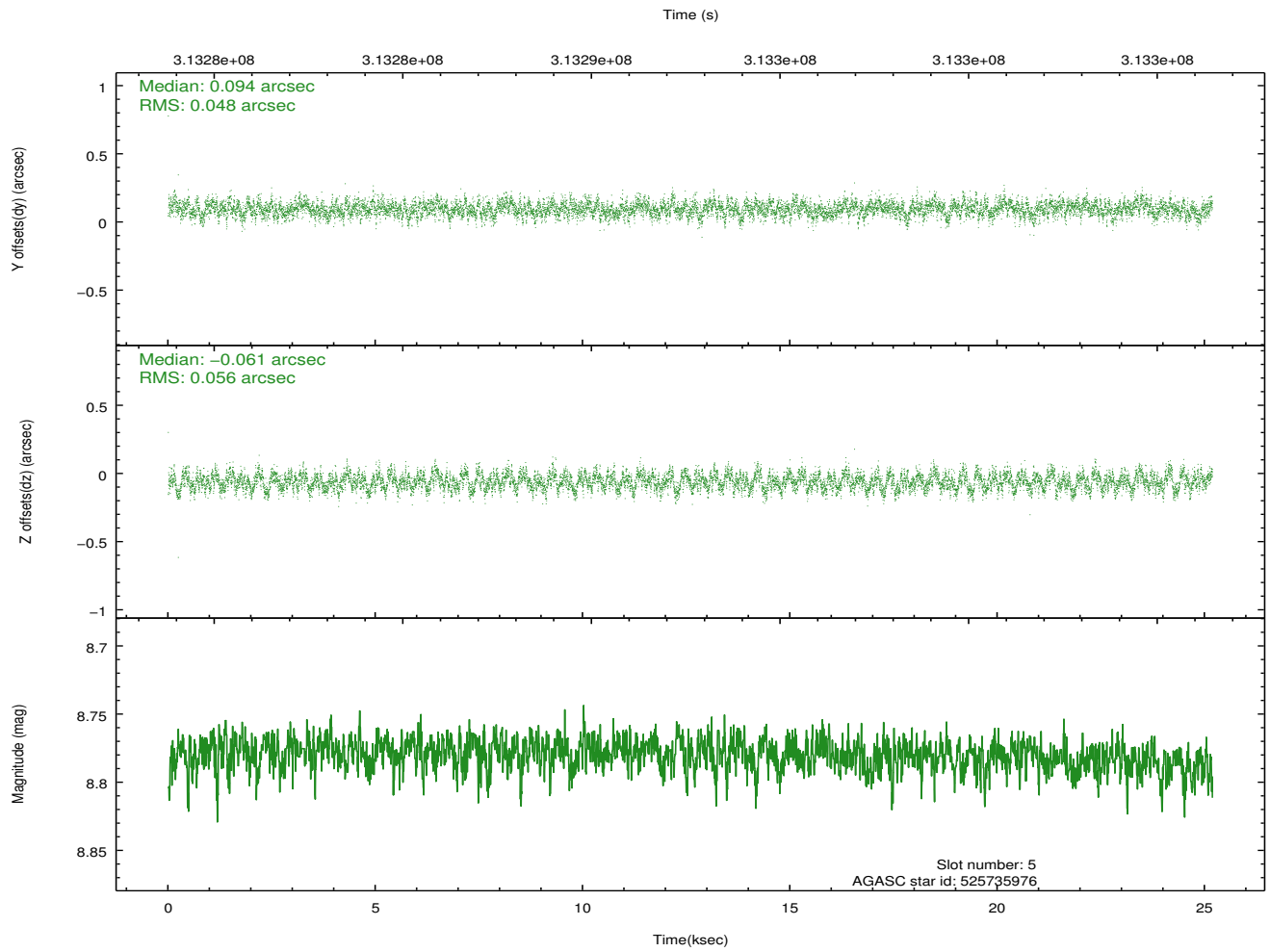
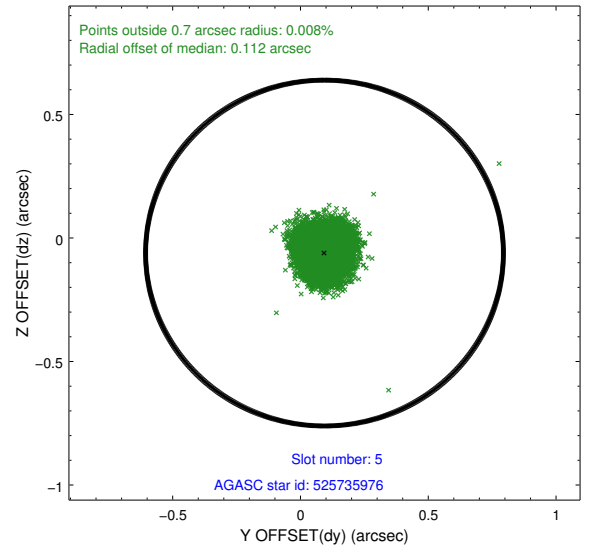
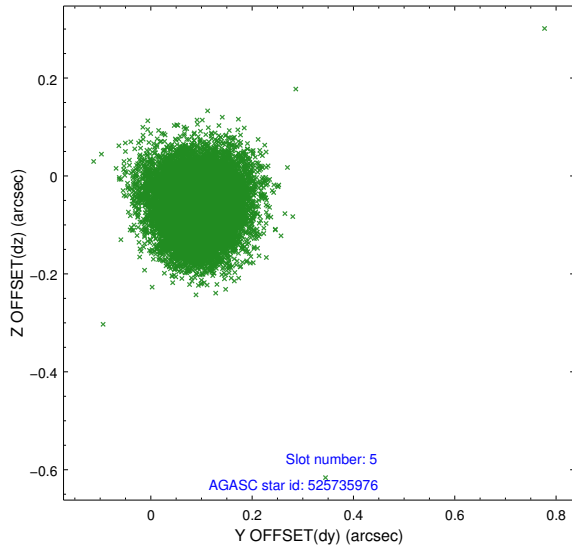
### 2.4.1 Slot 3



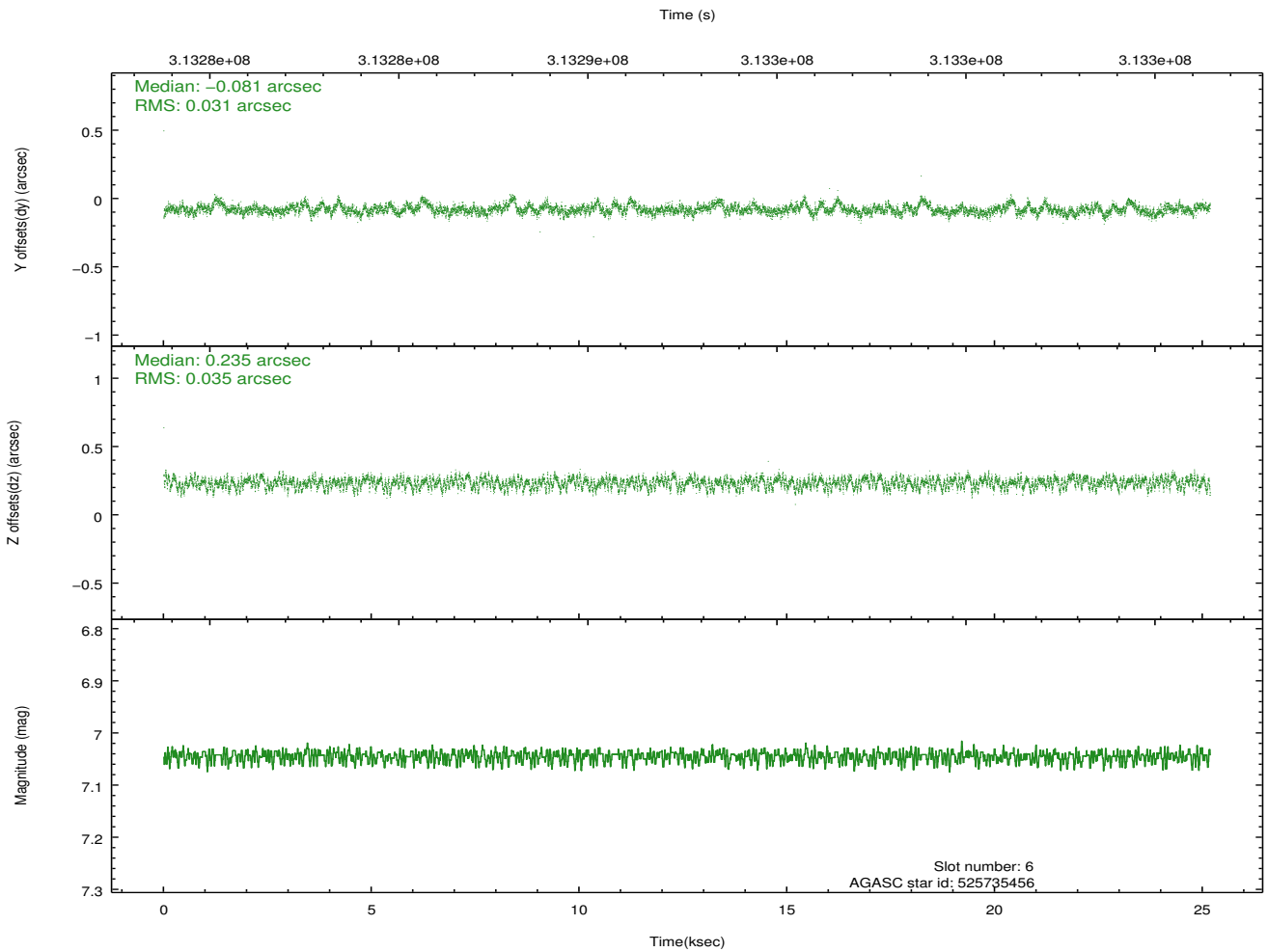
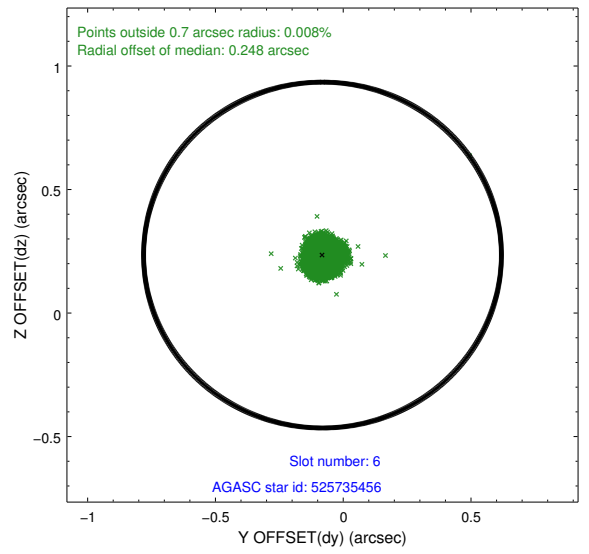
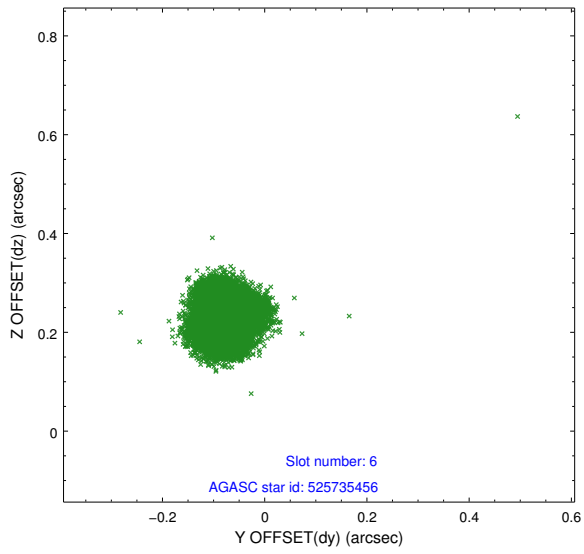
## 2.4.2 Slot 4



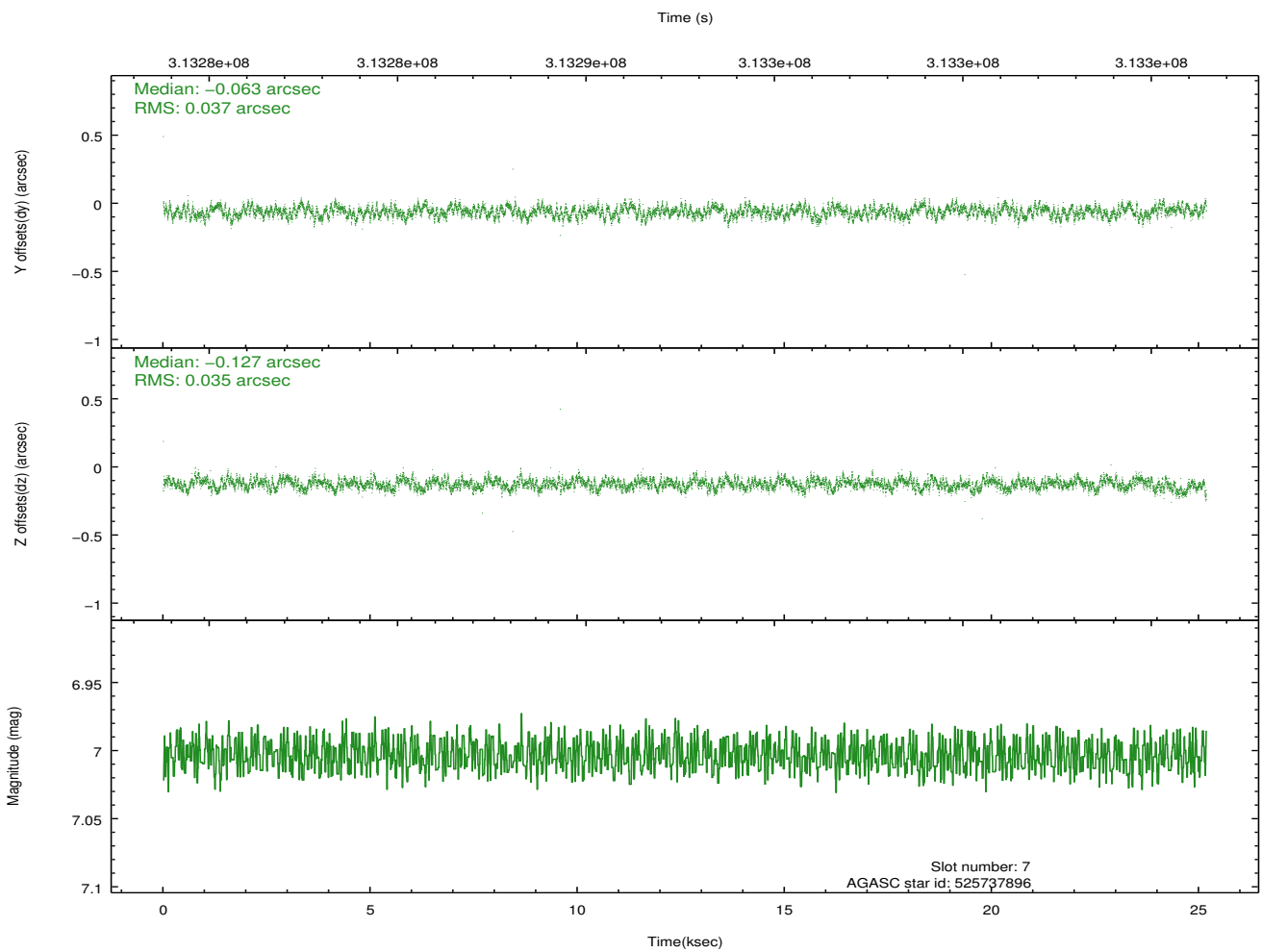
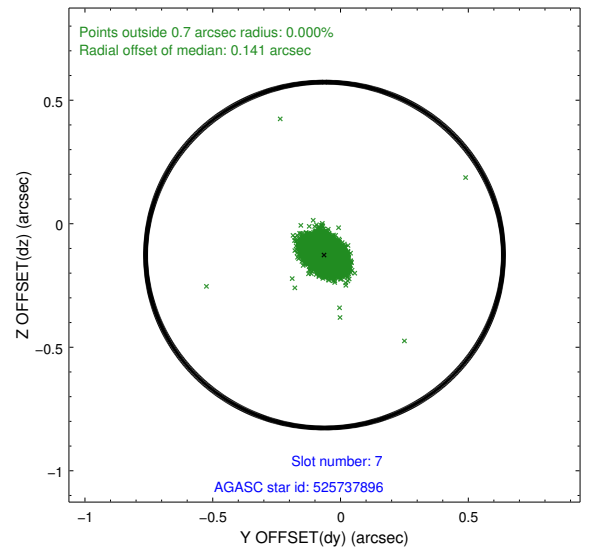
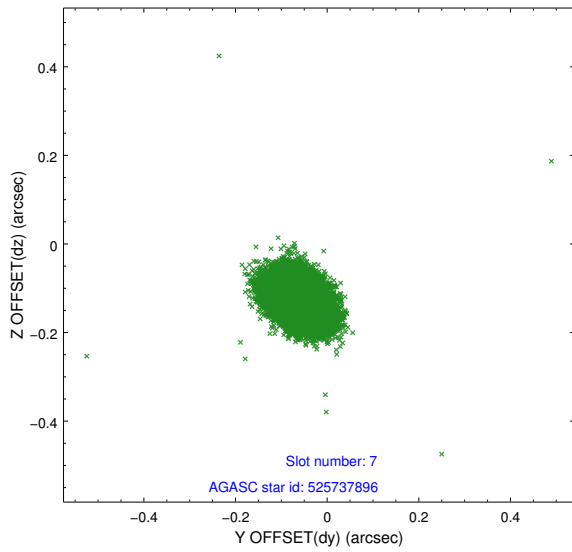
### 2.4.3 Slot 5



## 2.4.4 Slot 6

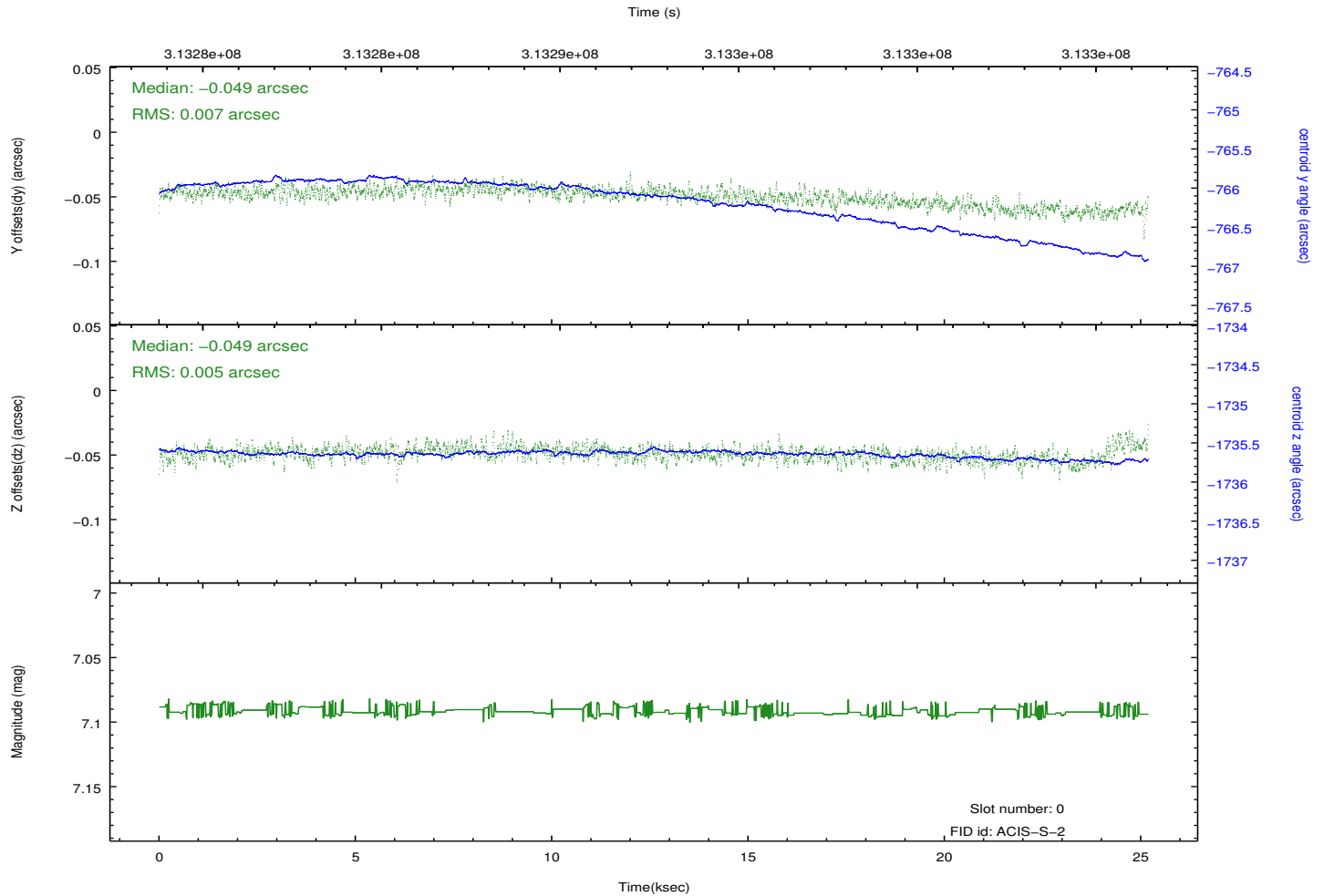
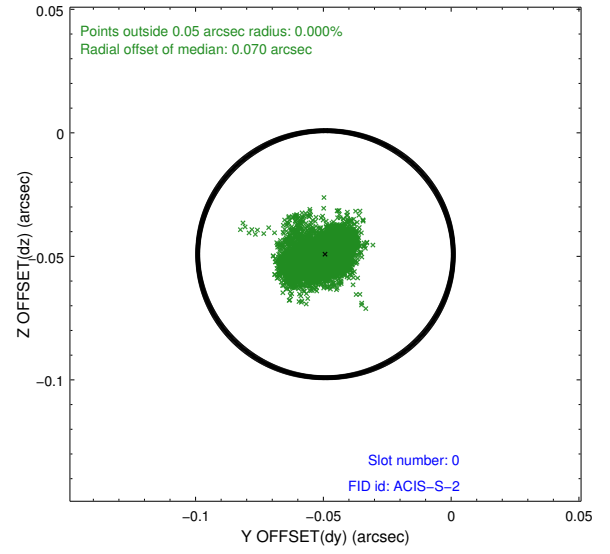
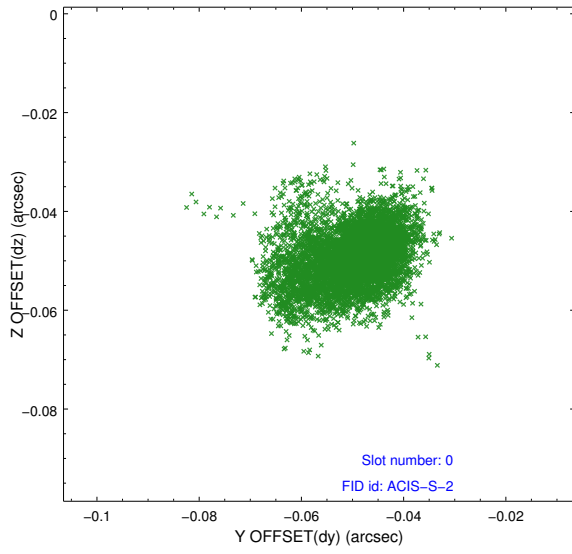


## 2.4.5 Slot 7

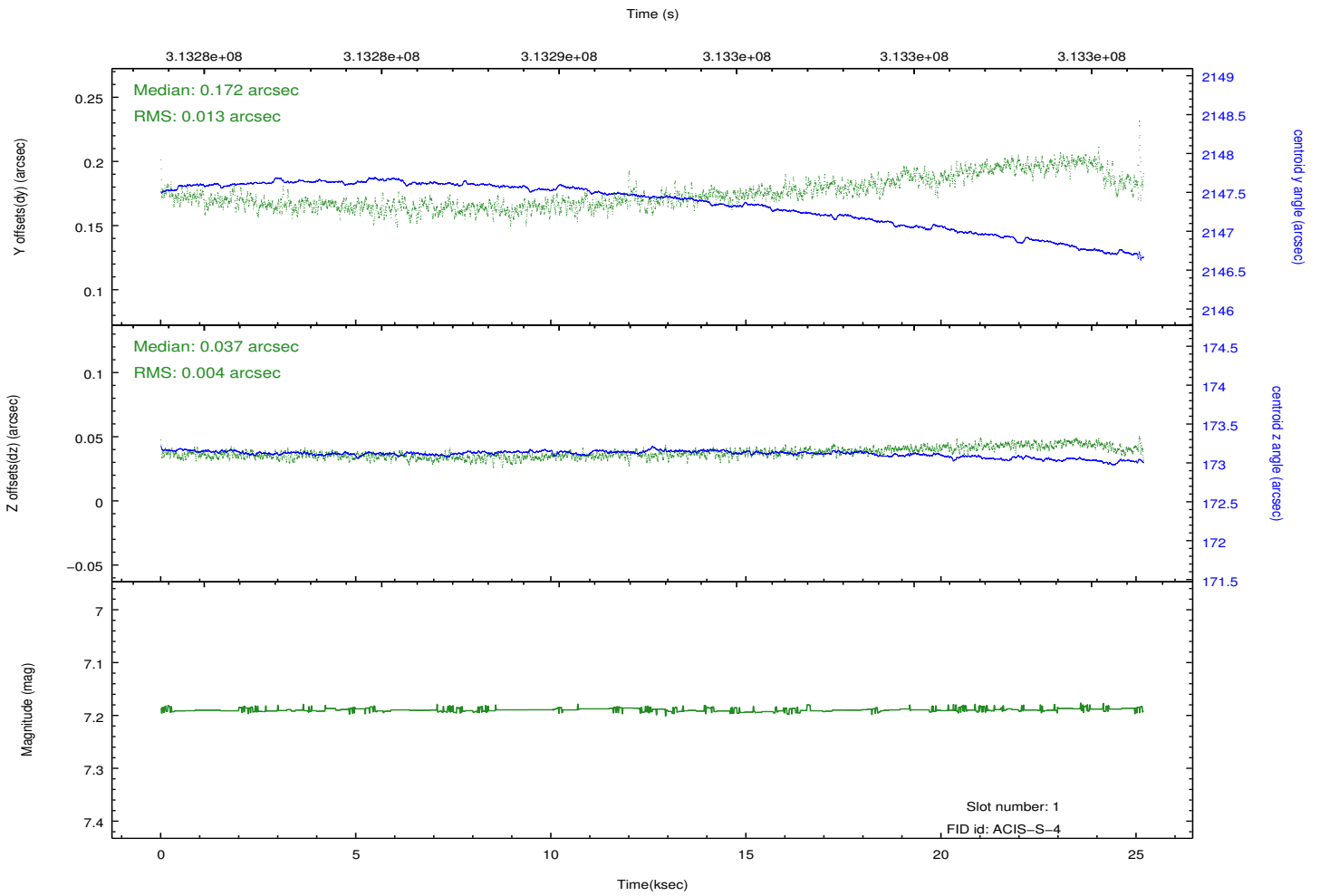
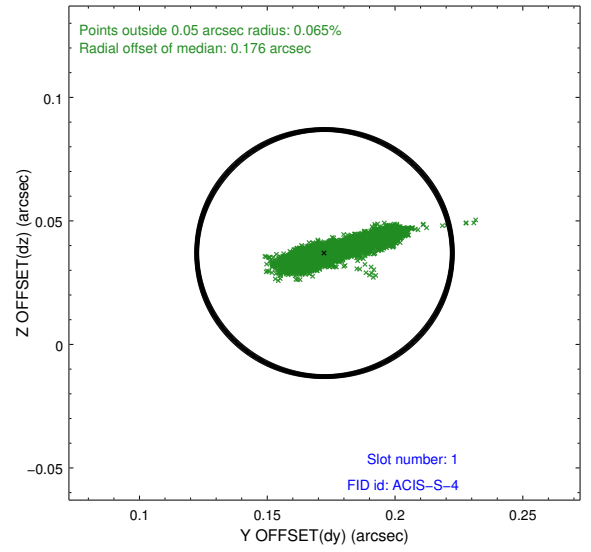
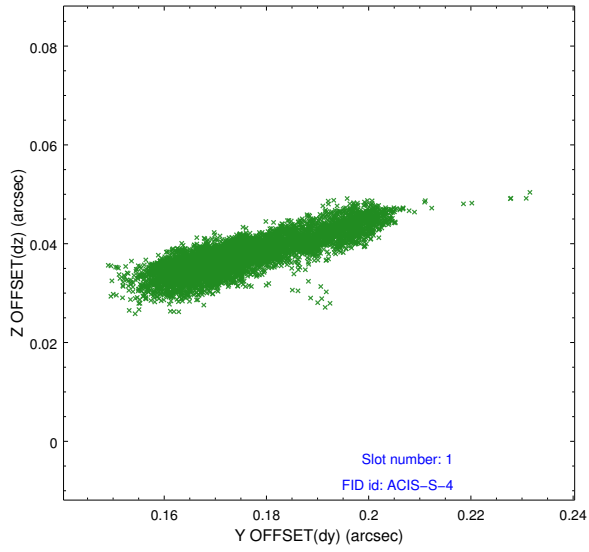


## 2.5 FID Slots

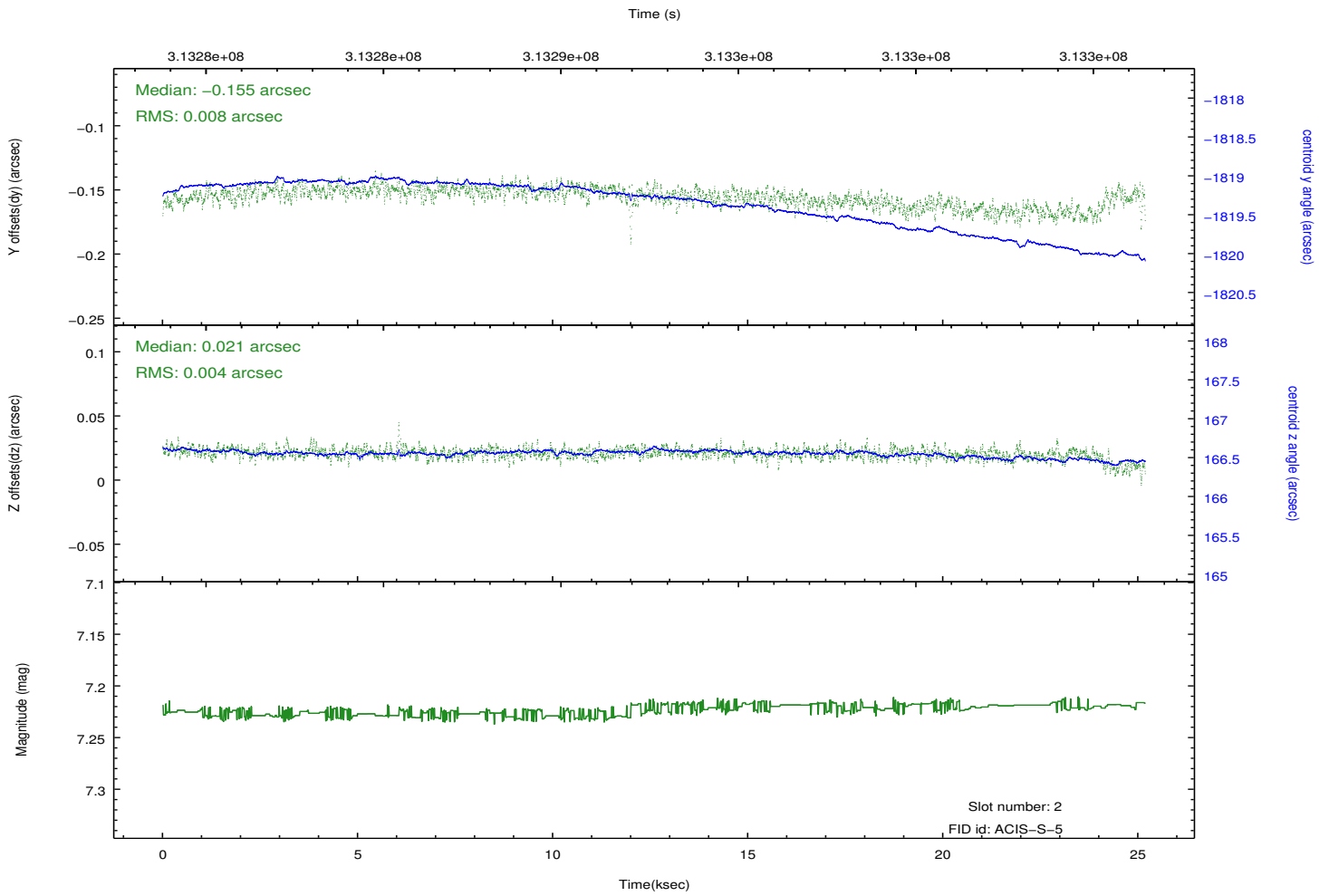
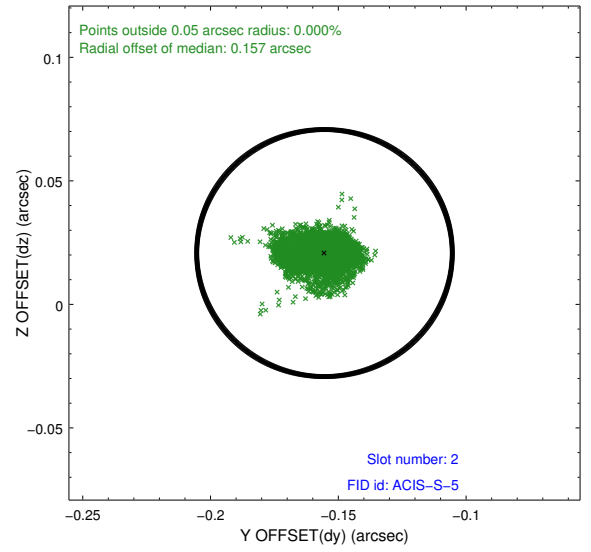
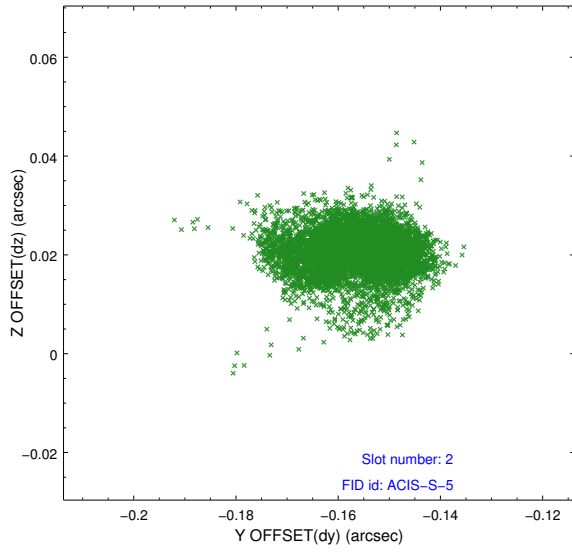
### 2.5.1 Slot 0



## 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)	2012.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.179

## A.2 Comments

Joint proposal with HST.