

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13177 - L2 Version 2  
Chandra X-Ray Center

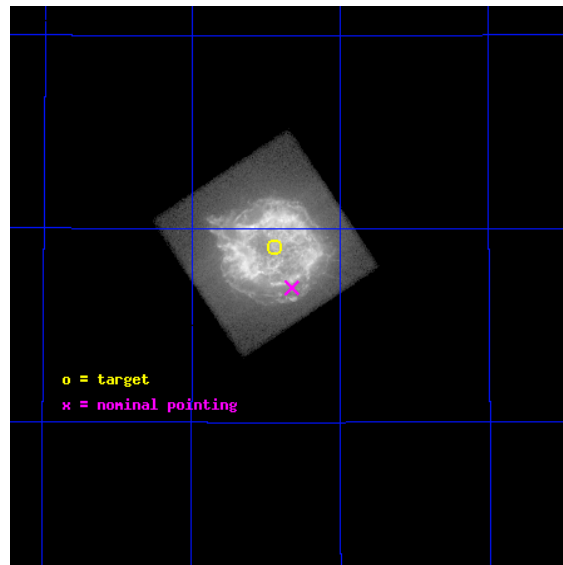
L2 Processing Date : Jul 6 2012

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# 1 Front

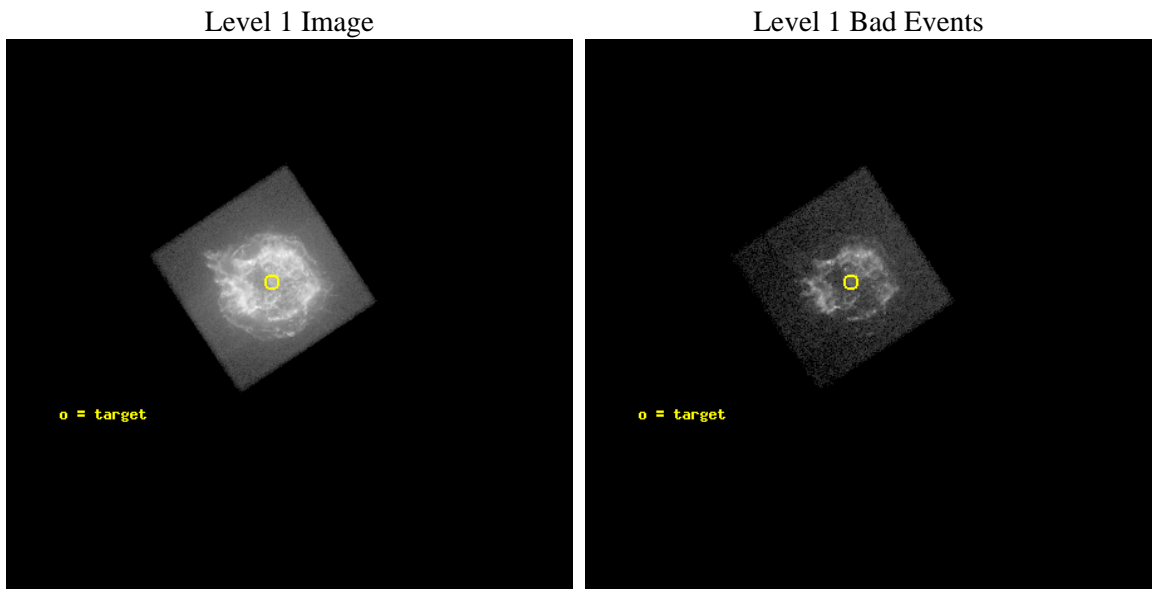
seq_num	501176	Sequence number
obs_id	13177	Observation id
title	Testing Shock Physics Through Flux Variability in Cas A	Proposal t
observer	Daniel Patnaude	Principal investigator
object	Cassiopeia A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.86125	Observer's specified target RA [deg]
dec_targ	58.8175	Observer's specified target Dec [deg]
ra_nom	350.83201458853	Nominal RA [deg]
dec_nom	58.782628668413	Nominal Dec [deg]
roll_nom	236.48163537456	Nominal Roll [deg]
revision	2	Processing version of data
ontime	17477.720564246	Sum of GTIs [s]
livetime	17241.852028496	Livetime [s]
ontime7	17477.720564246	Sum of GTIs [s]
l2events	4855857	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	17400.641000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	17477.720564246	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime7	17477.720564246	Sum of GTIs [s]
date	2012-07-06T00:14:42	Date and time of file creation	l1events	5209994	Number of level 1 events
revision	2	Processing version of data			

### 2.1.3 Events

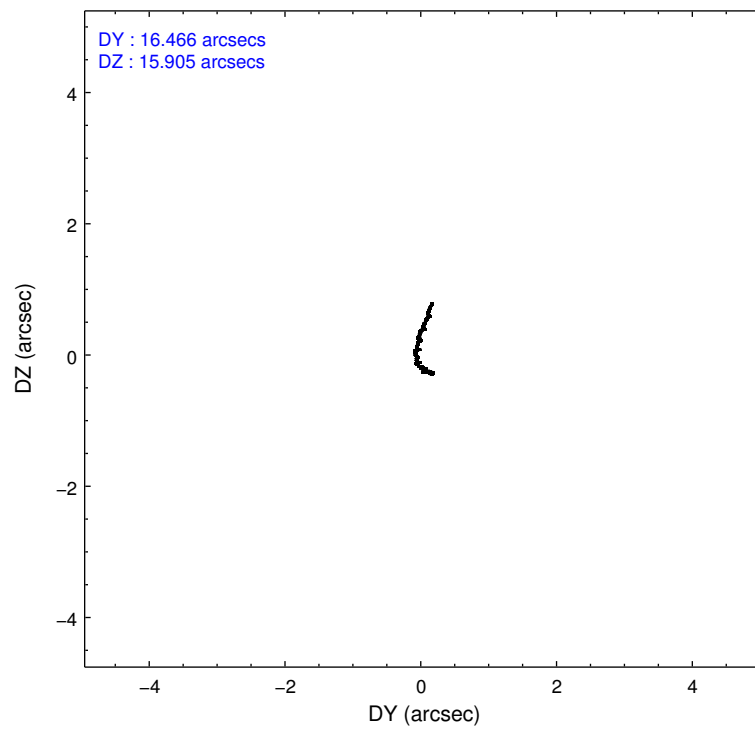
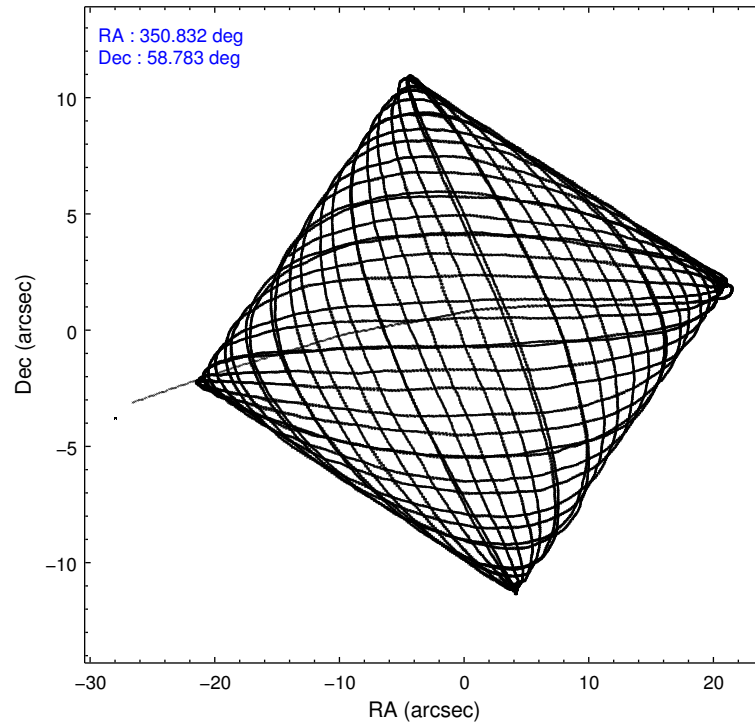
	<b>ccd 7</b>
level 1 events	5209994
rejected events	298879
rejected %	5%

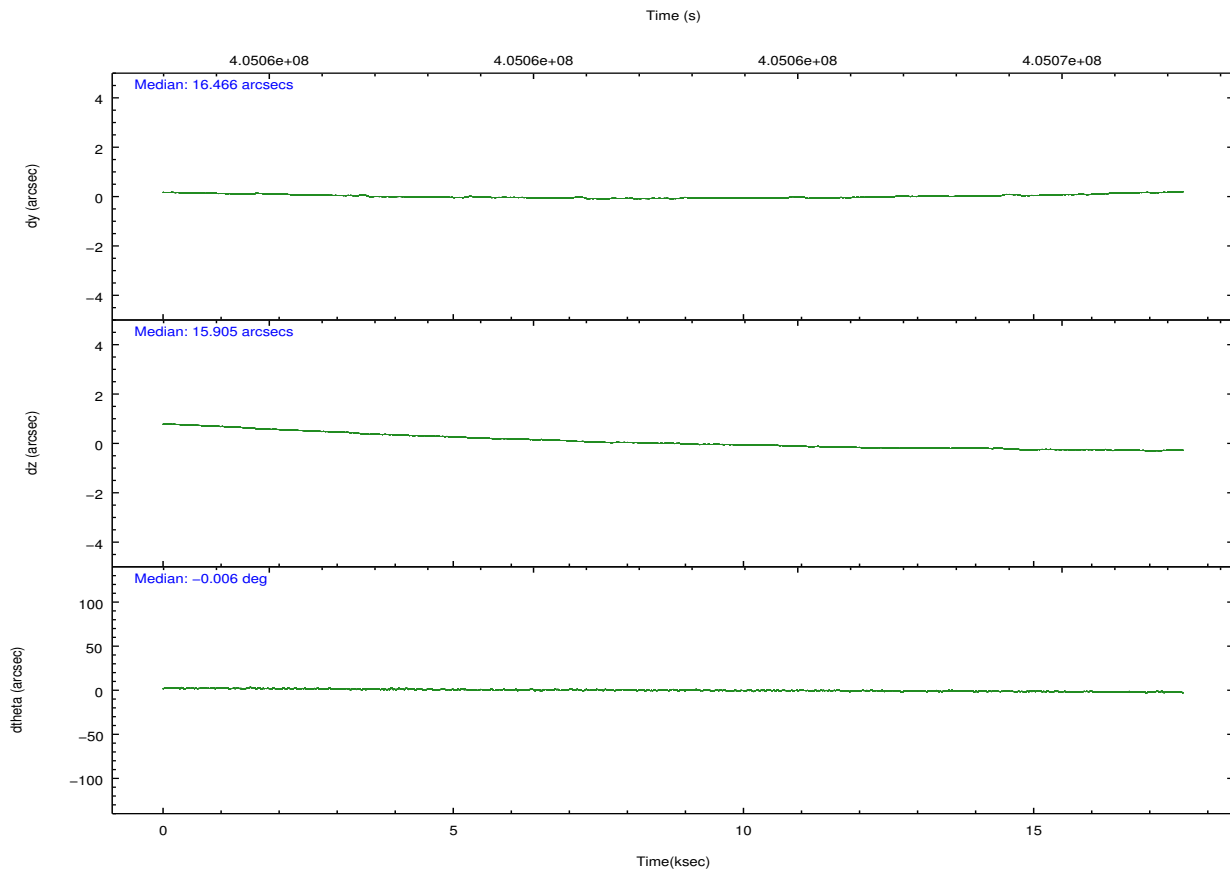
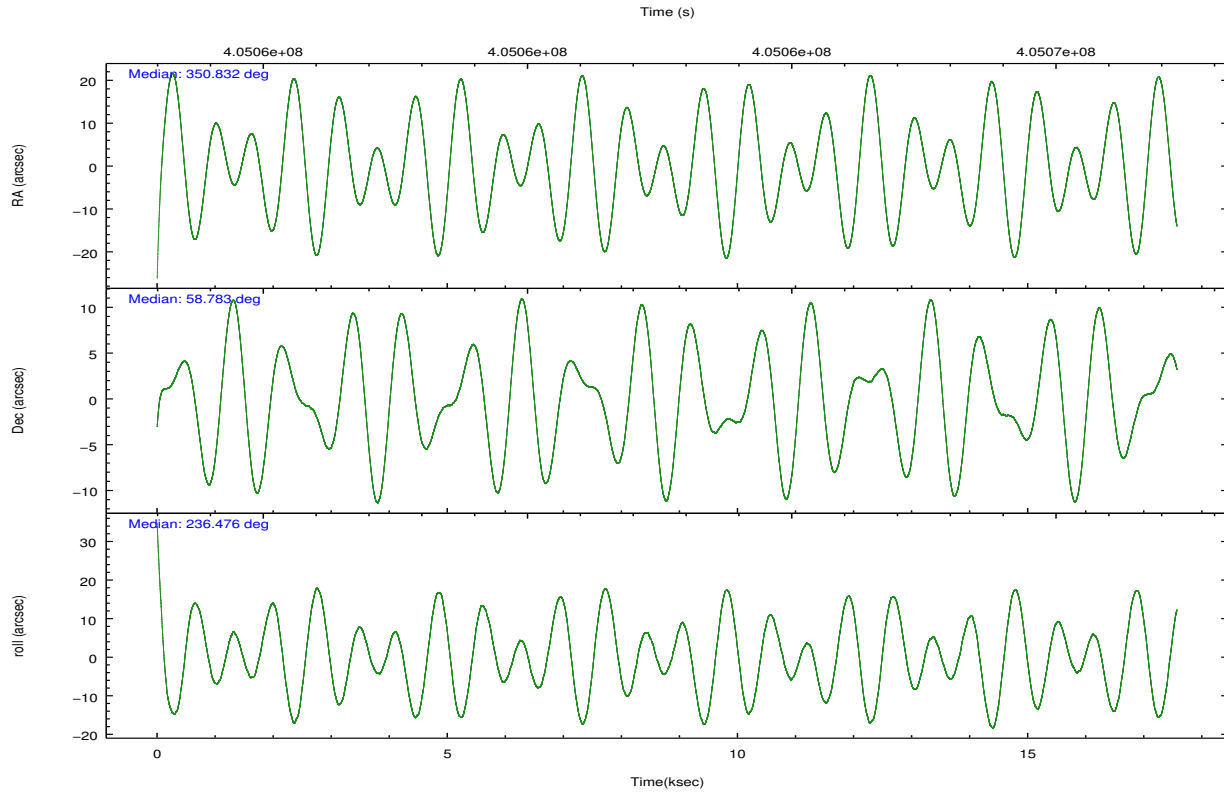
	<b>ccd 7</b>
grade 0 events	1055291
	20%
grade 1 events	17344
	0%
grade 2 events	1508798
	28%
grade 3 events	498217
	9%
grade 4 events	492516
	9%
grade 5 events	90819
	1%
grade 6 events	1357968
	26%
grade 7 events	189041
	3%

## 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	350.834457	350.8320145885309	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.809917	58.78262866841254	Alternating exposures requested	N	N
[deg] Pointing Roll	236.322912	236.4816353745586	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	405054028.184000	405053042.80581			
Observation start date	2010-11-02T02:59:22	2010-11-02T02:44:02			
[s] Observation end time (MET)	405071429.184000	405071654.24427			
Observation end date	2010-11-02T07:49:23	2010-11-02T07:54:14			
Read mode	TIMED	TIMED			

## 2.3 Aspect



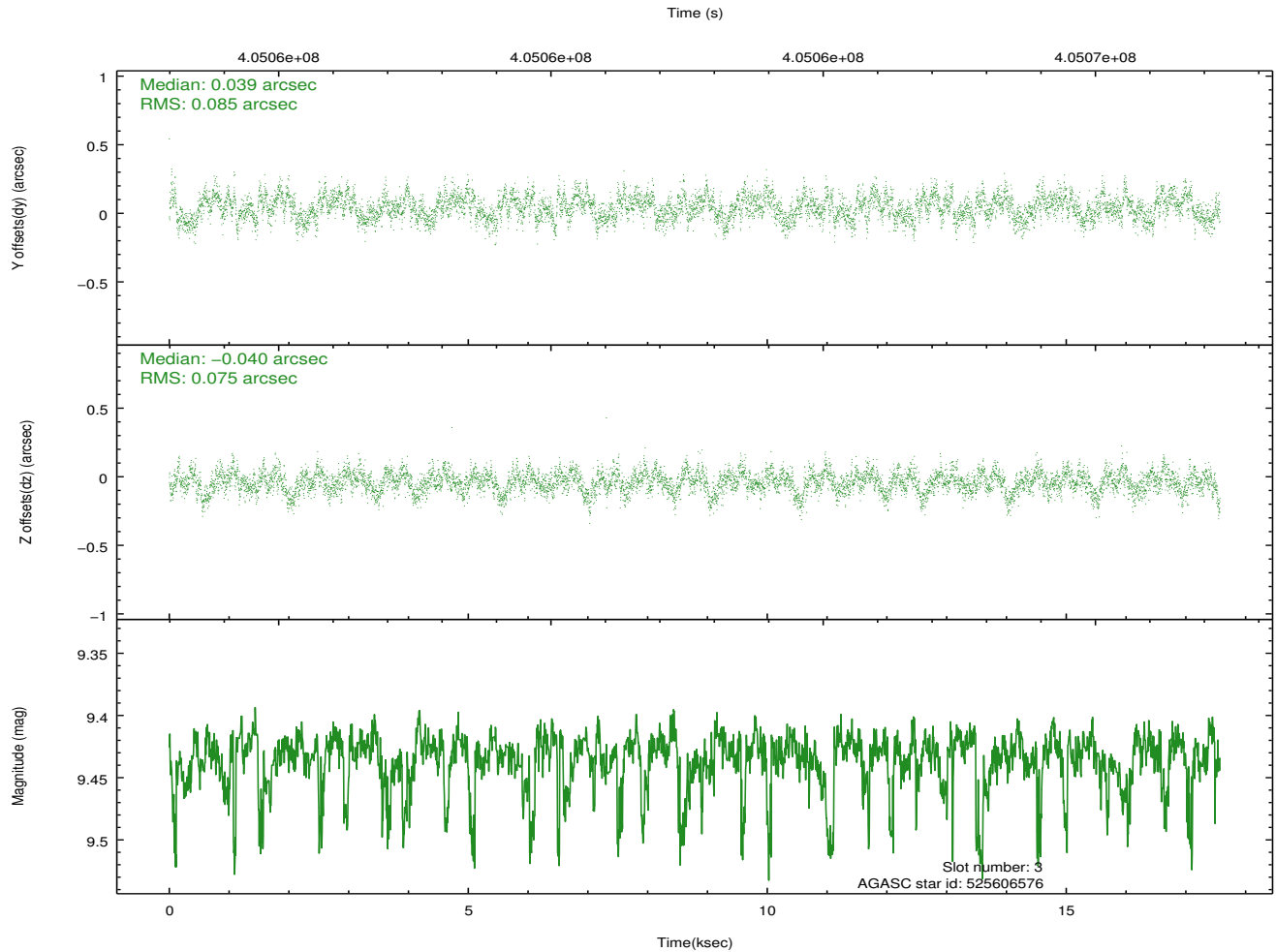
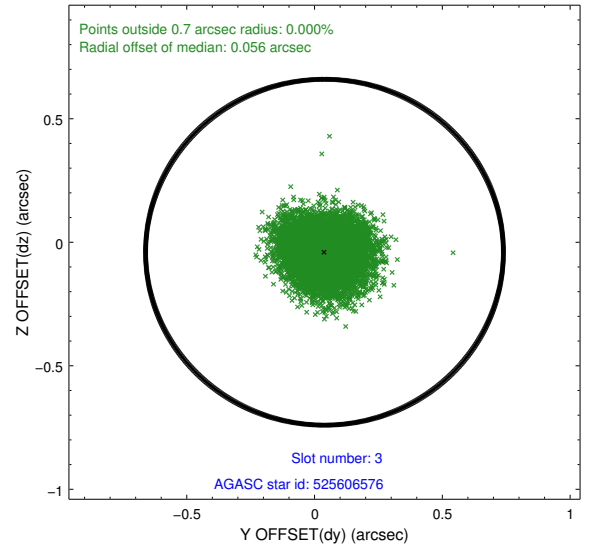
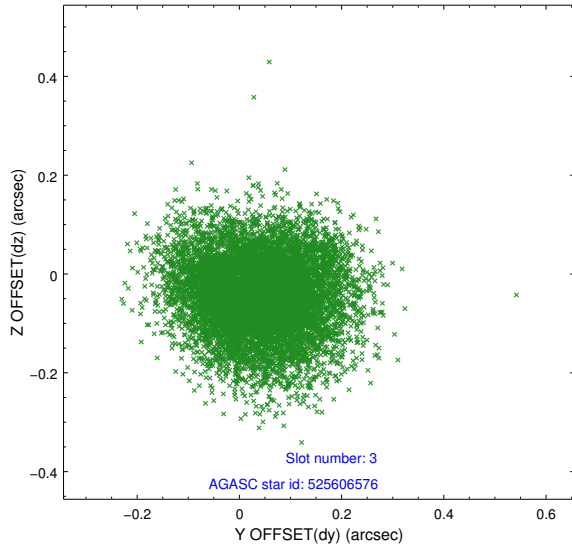


### Slot Statistics

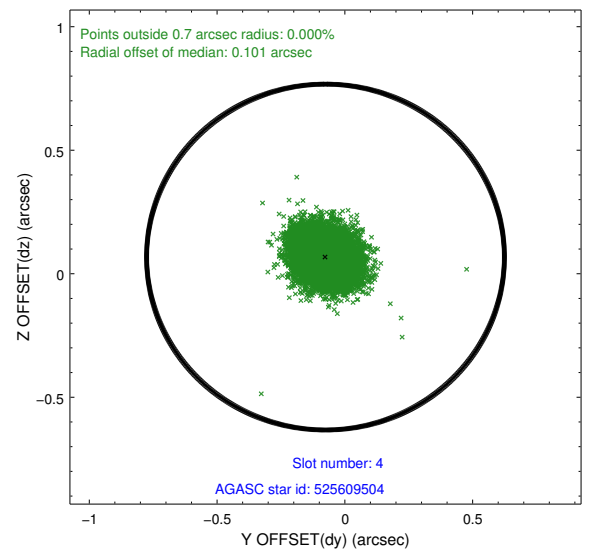
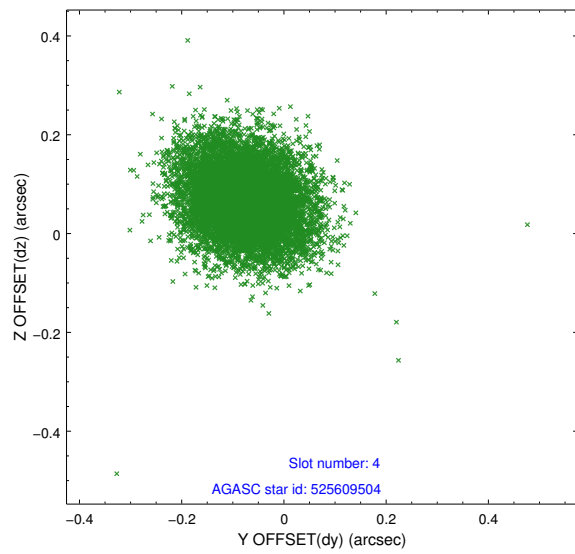
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.99	4286	0.081	-0.105	0.011	0.022	0.000000	0.000000	926.65	-1733.06
1	FID	ACIS-S-5	7.04	4286	-0.105	0.051	0.009	0.019	0.000000	0.000000	-1822.43	164.37
2	FID	ACIS-S-6	7.14	4286	0.002	0.065	0.010	0.018	0.000000	0.000000	391.83	808.64
3	GUIDE	525606576	9.43	8545	0.039	-0.040	0.122	0.195	349.543555	58.678895	1713.97	-1761.45
4	GUIDE	525609504	9.08	8554	-0.076	0.068	0.095	0.154	349.896632	58.356658	2330.65	-576.22
5	GUIDE	525732232	9.12	8559	0.067	-0.048	0.127	0.202	351.669550	58.757012	-713.19	1399.45
6	GUIDE	525732488	8.41	8567	0.033	0.021	0.077	0.121	350.087090	58.516915	1650.85	-588.27
7	GUIDE	525735456	6.79	8570	-0.072	-0.002	0.057	0.091	350.628183	59.307249	-1279.34	-1308.79

## 2.4 Star Slots

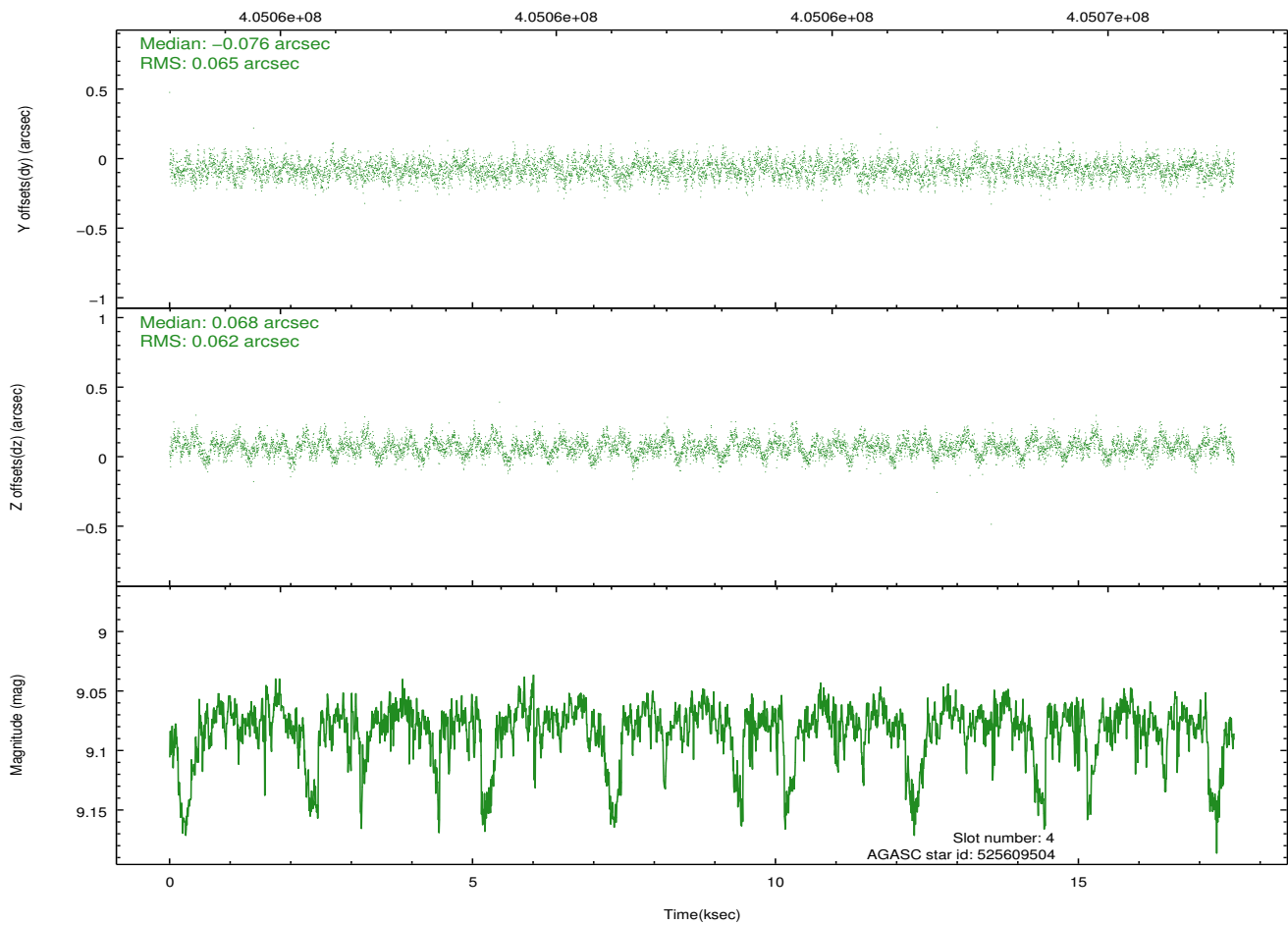
### 2.4.1 Slot 3



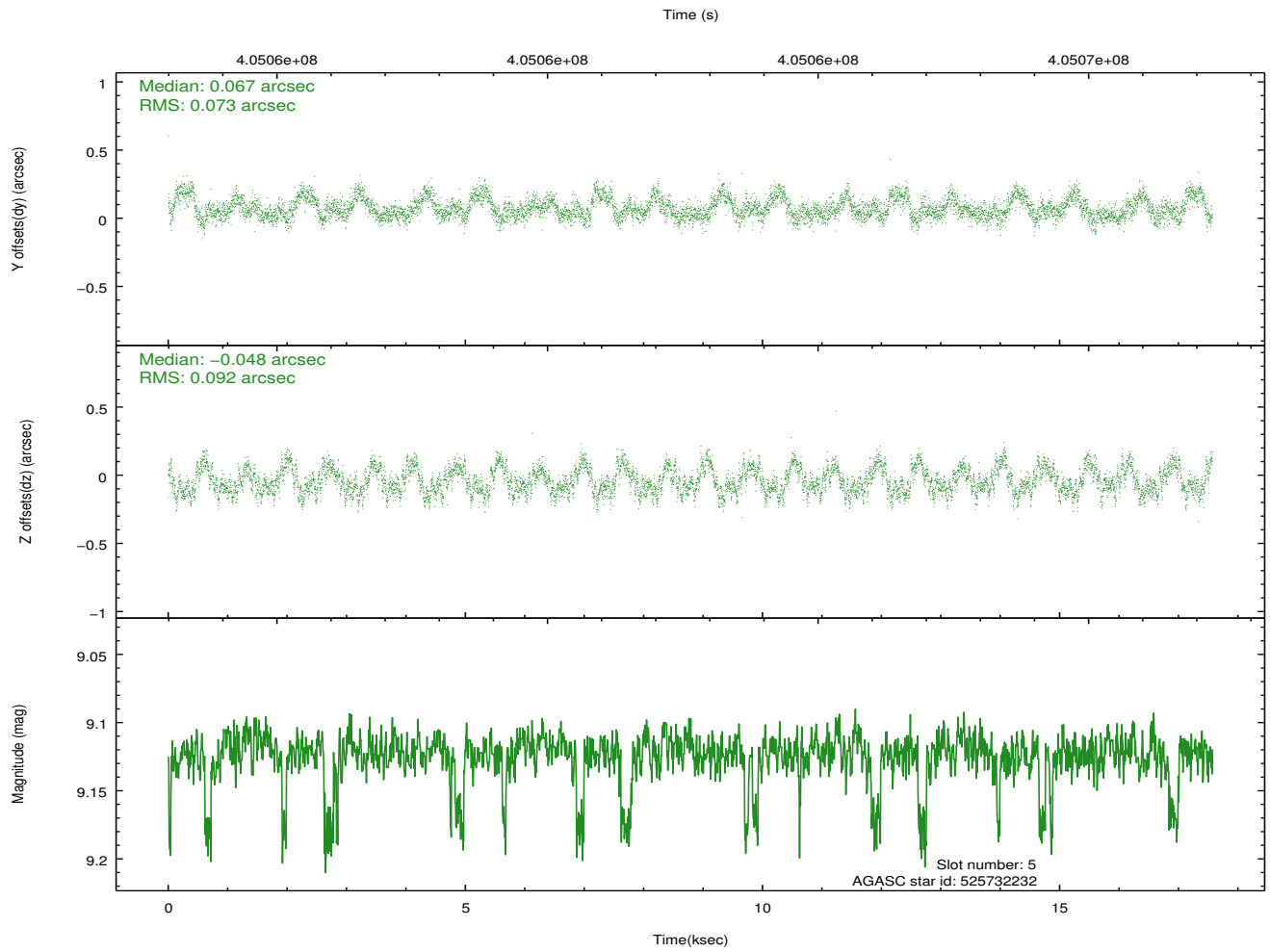
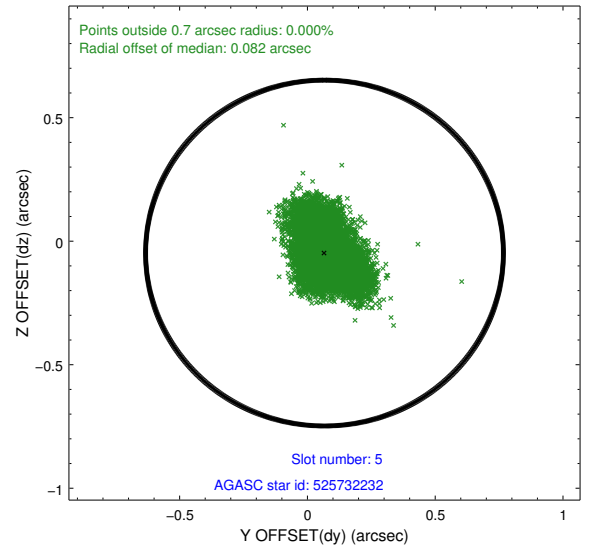
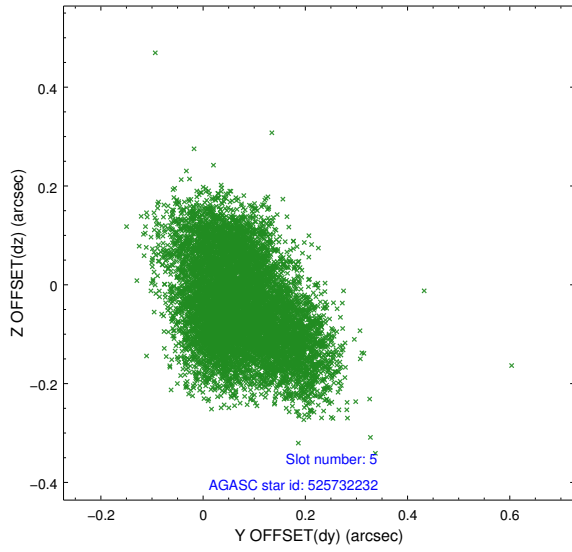
## 2.4.2 Slot 4



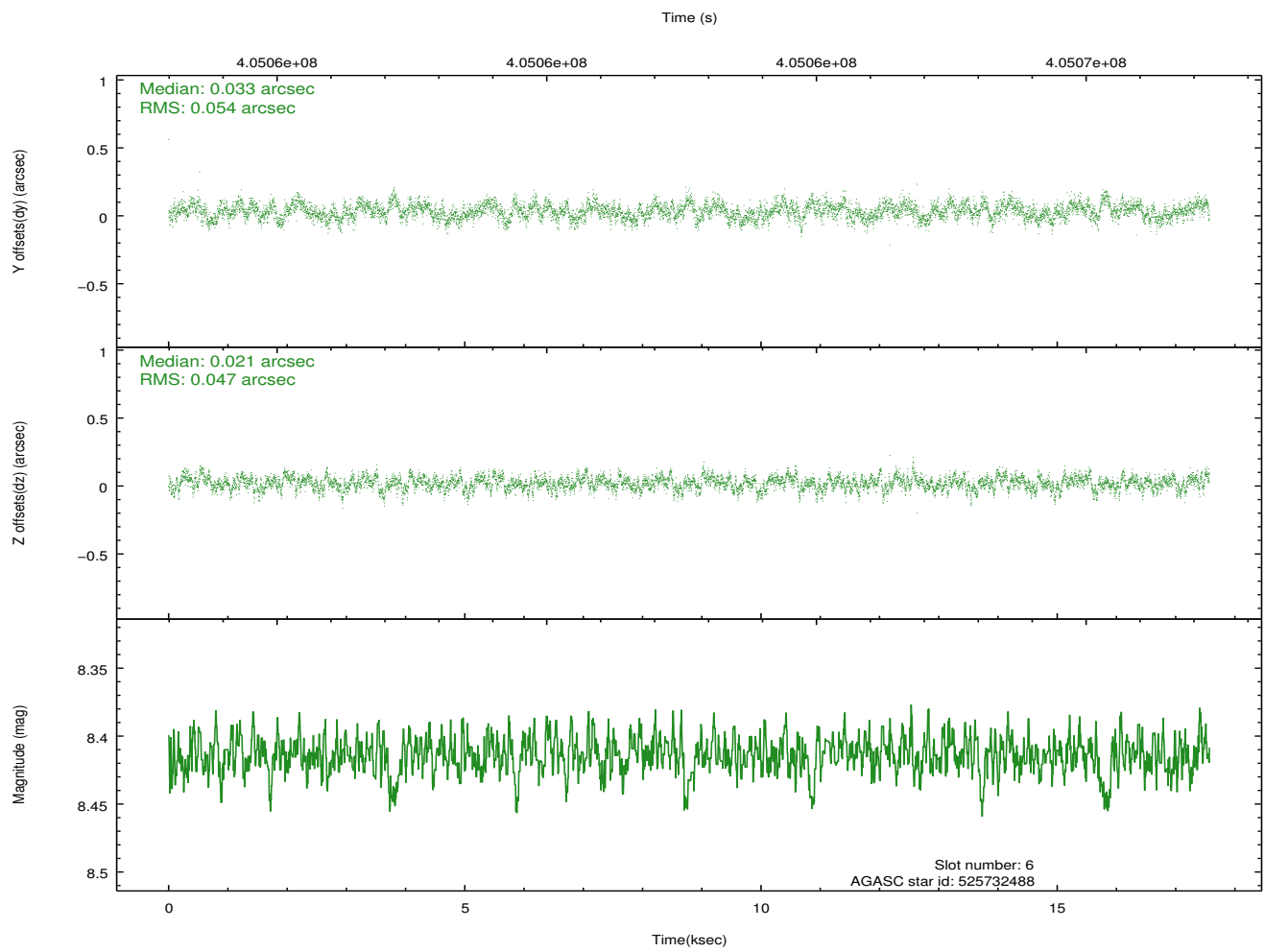
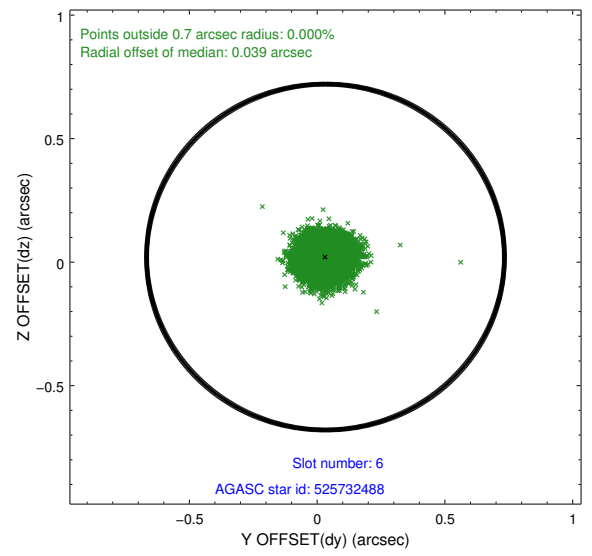
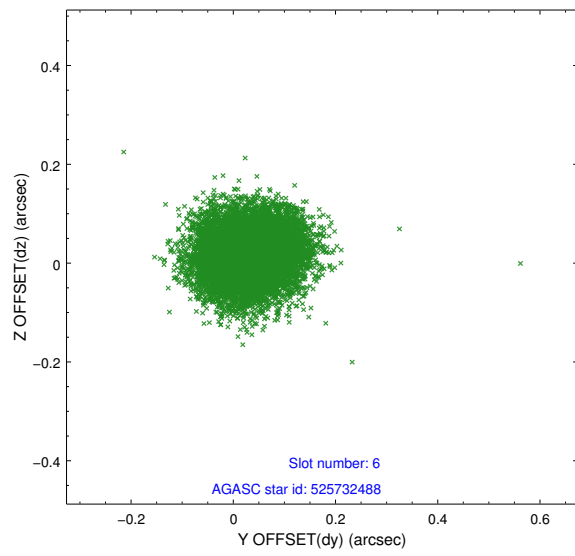
Time (s)



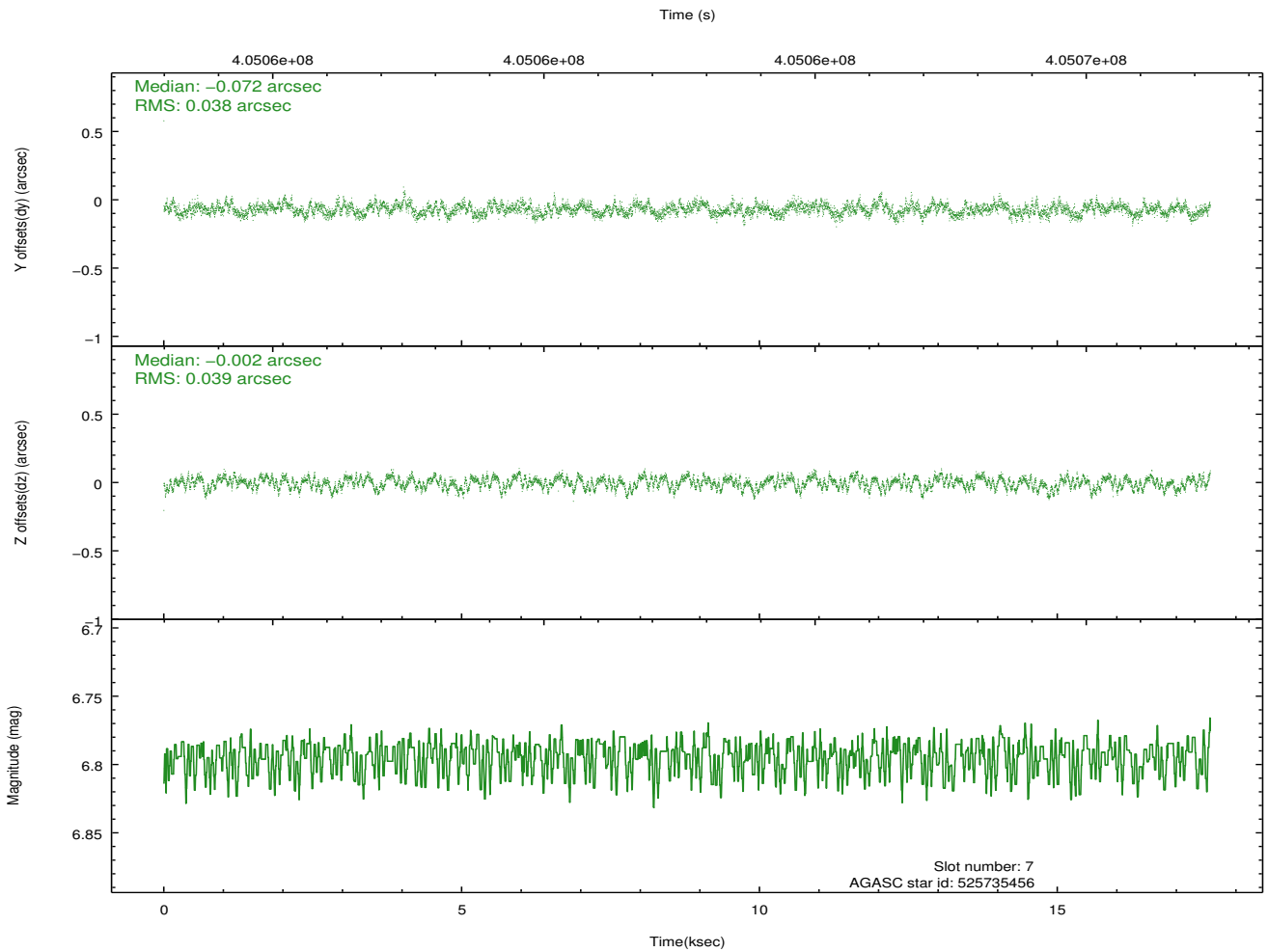
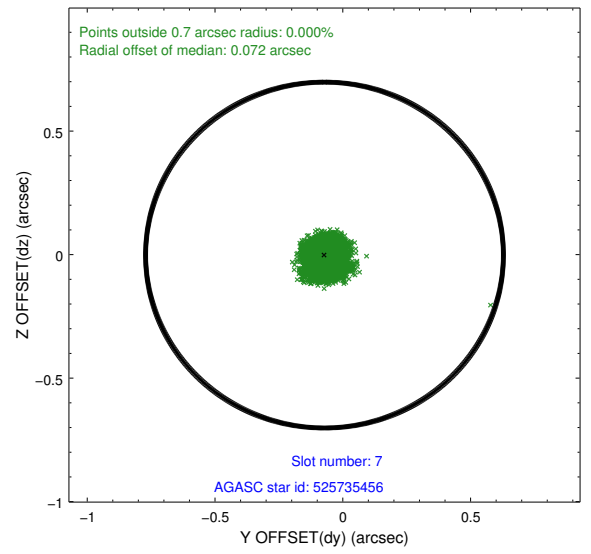
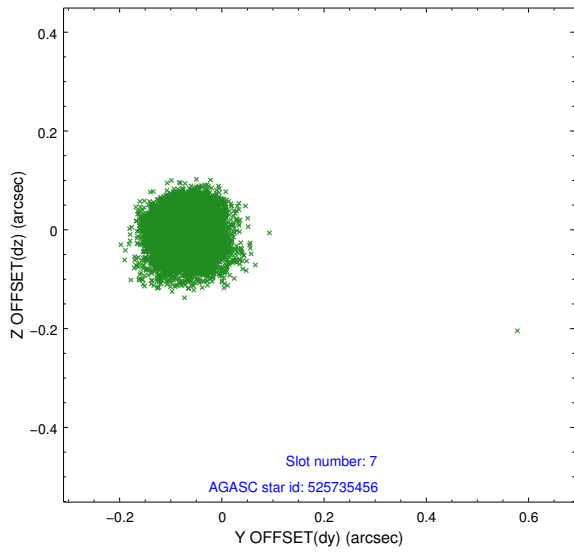
### 2.4.3 Slot 5



## 2.4.4 Slot 6

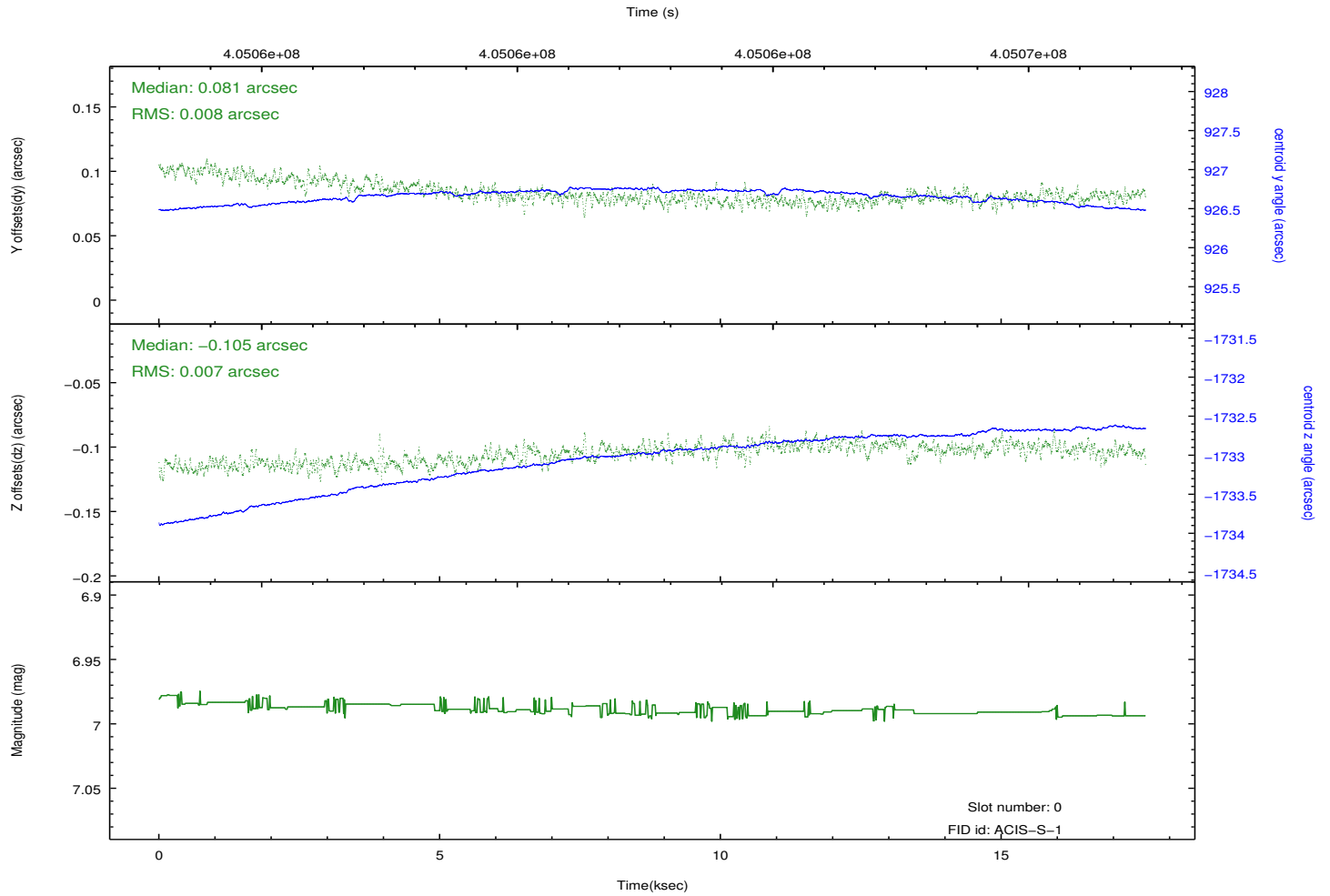
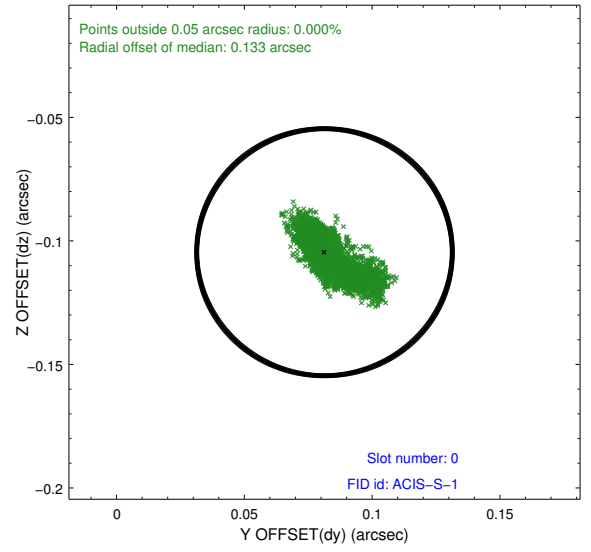
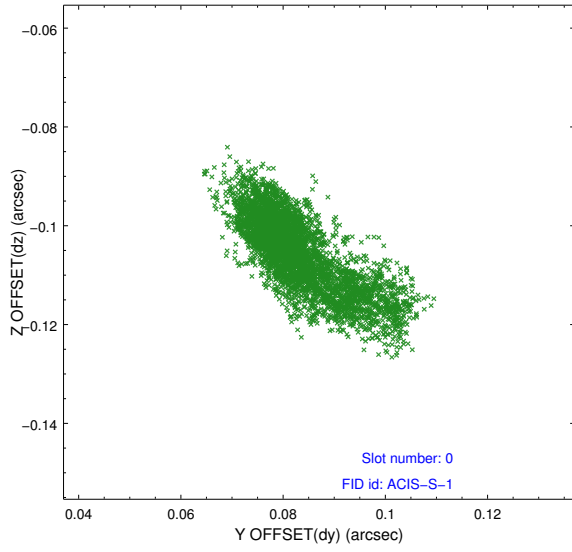


### 2.4.5 Slot 7

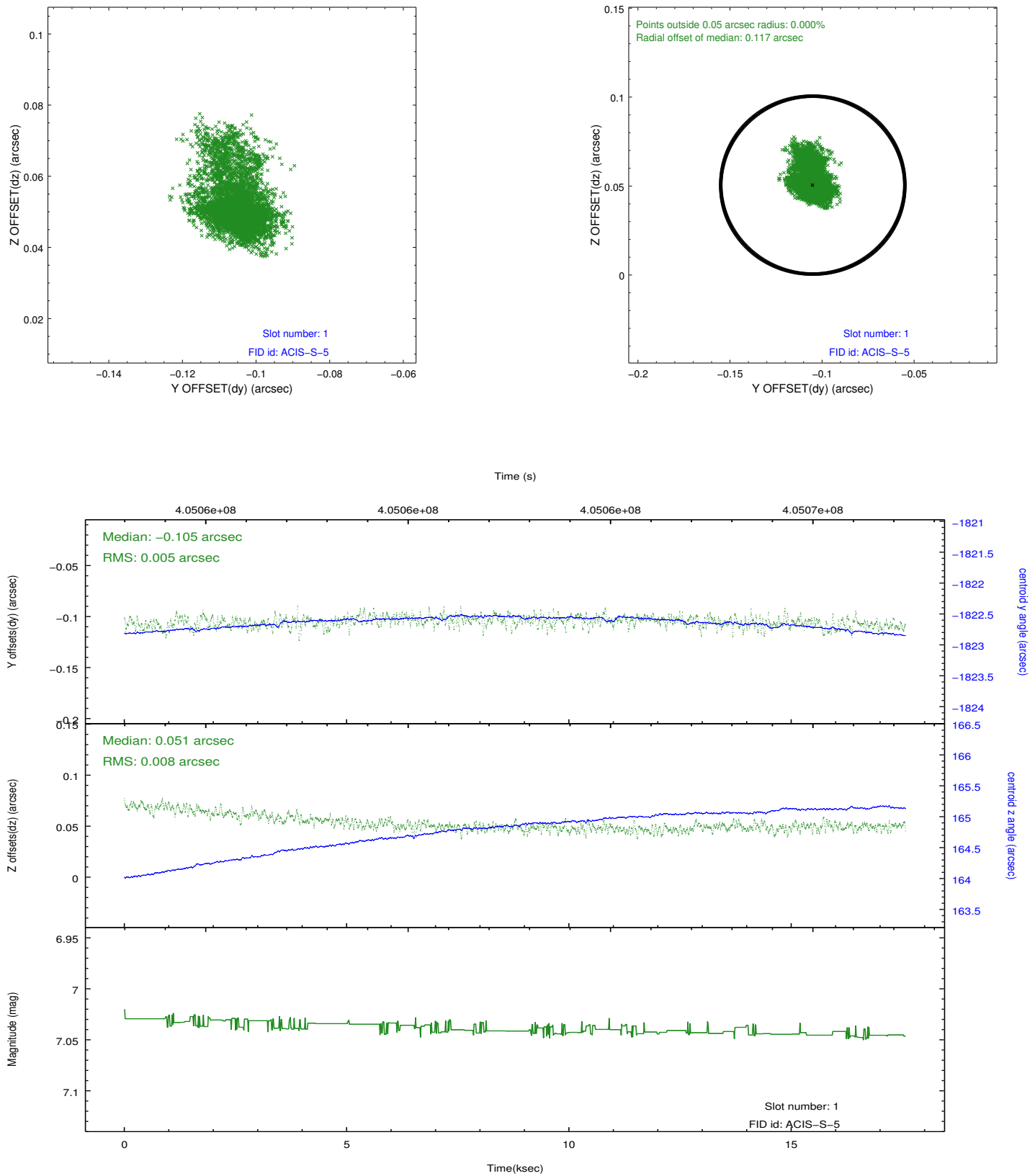


## 2.5 FID Slots

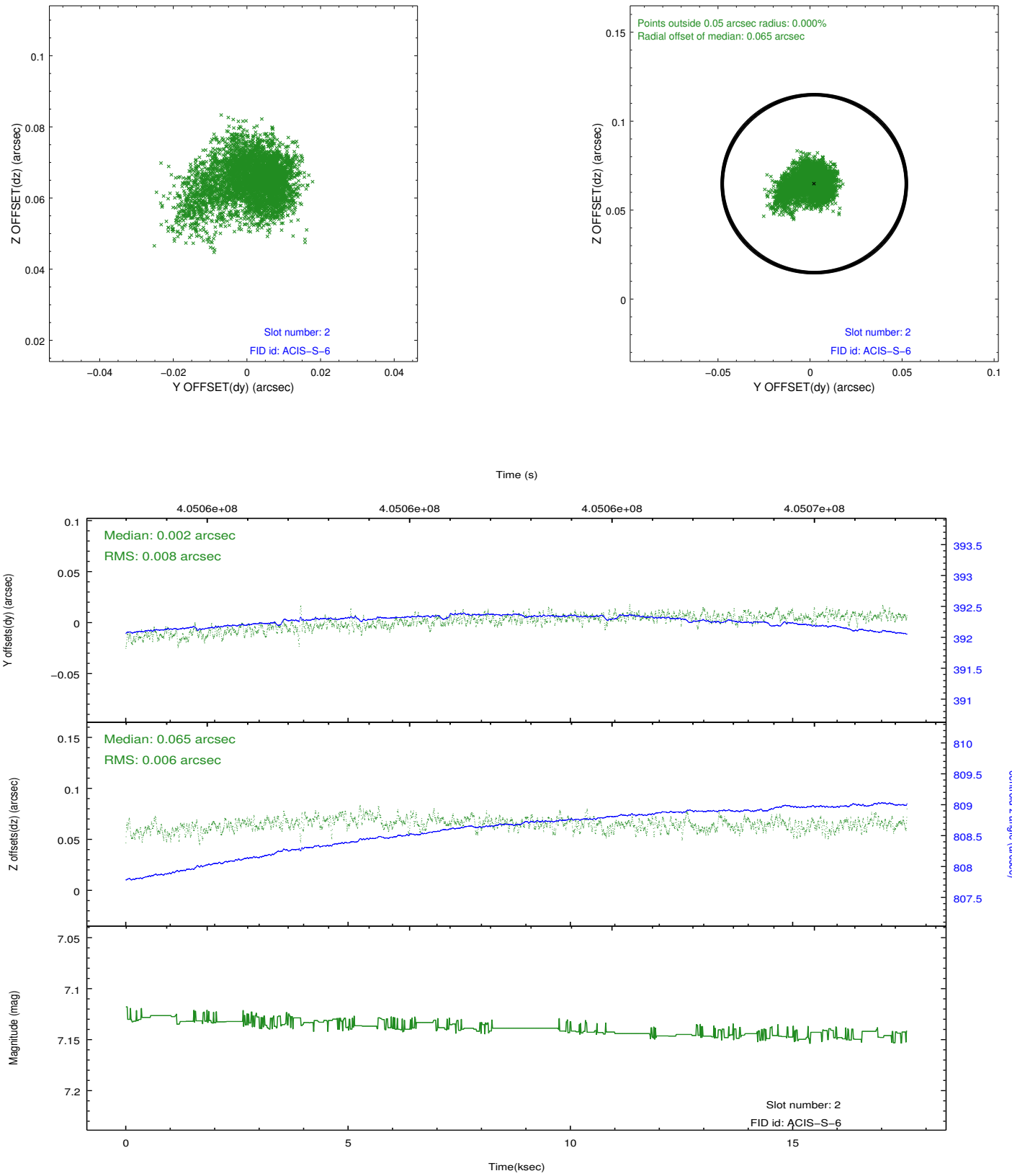
### 2.5.1 Slot 0



## 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)	2012.07.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.477720560133

## A.2 Comments