

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13341 - L2 Version 2  
Chandra X-Ray Center

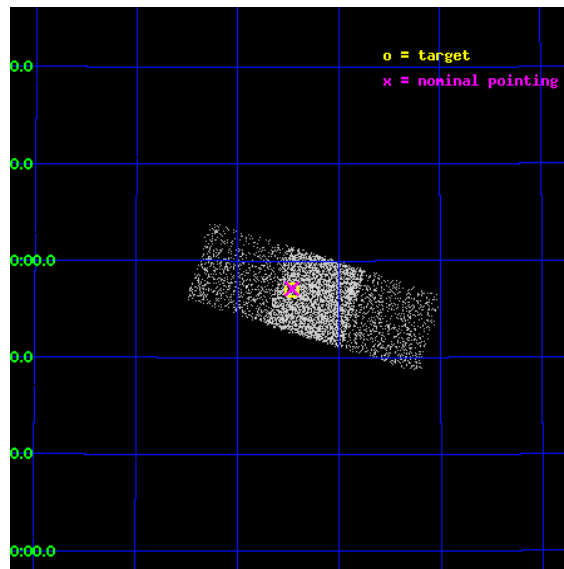
L2 Processing Date : Mar 2 2012

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# 1 Front

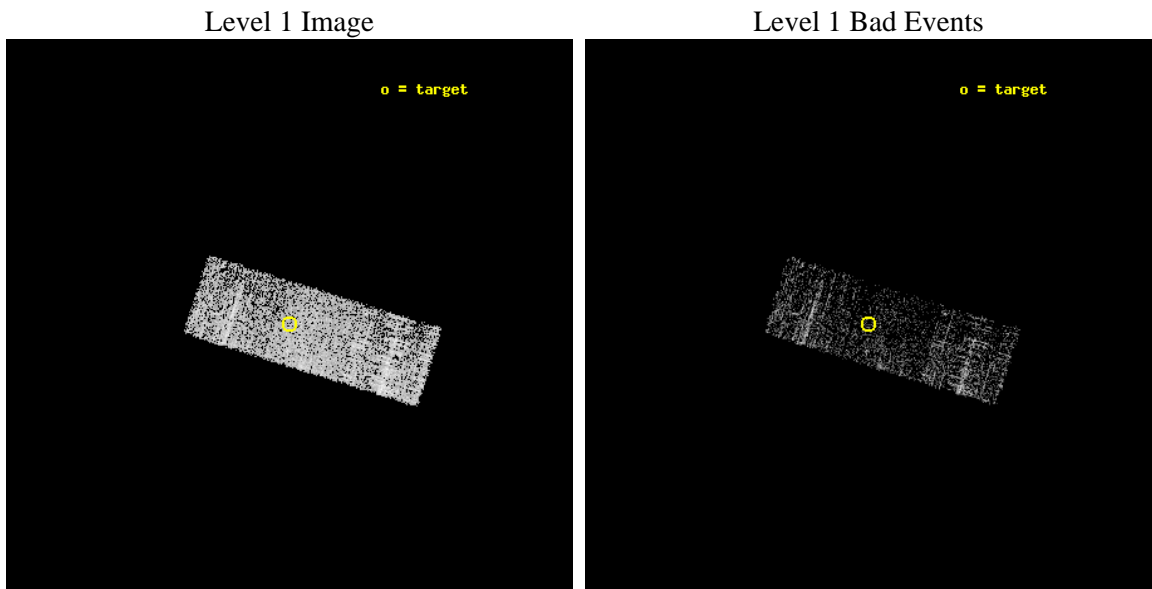
seq_num	702548	Sequence number
obs_id	13341	Observation id
title	A Large, Economical Snapshot Survey of the Most-Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Prof. Gordon Garmire	Principal investigator
object	SDSS J1319+4456	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	199.865	Observer's specified target RA [deg]
dec_targ	44.949028	Observer's specified target Dec [deg]
ra_nom	199.86607231577	Nominal RA [deg]
dec_nom	44.951967781599	Nominal Dec [deg]
roll_nom	17.213639707255	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1559.3000119925	Sum of GTIs [s]
livetime	1538.9266093958	Livetime [s]
ontime6	1559.3000119925	Sum of GTIs [s]
ontime7	1559.3000119925	Sum of GTIs [s]
ontime8	1559.3000119925	Sum of GTIs [s]
l2events	6353	Number of level 2 events



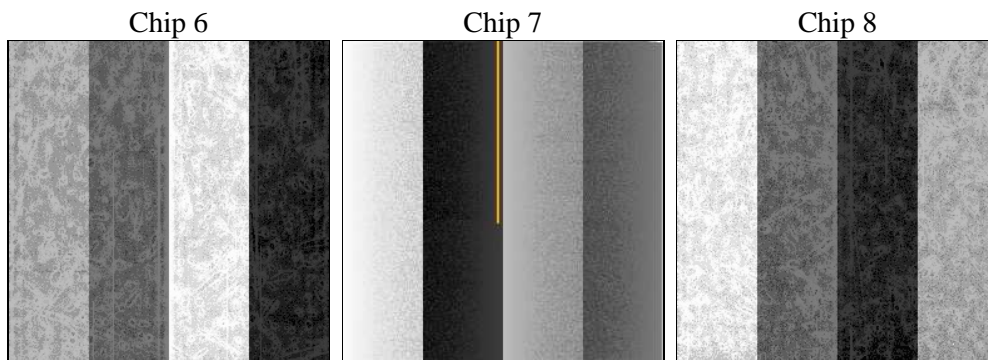
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1559.3000119925	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime6	1559.3000119925	Sum of GTIs [s]
date	2012-03-02T14:18:46	Date and time of file creation	ontime7	1559.3000119925	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	1559.3000119925	Sum of GTIs [s]
			l1events	29346	Number of level 1 events

### 2.1.4 Events

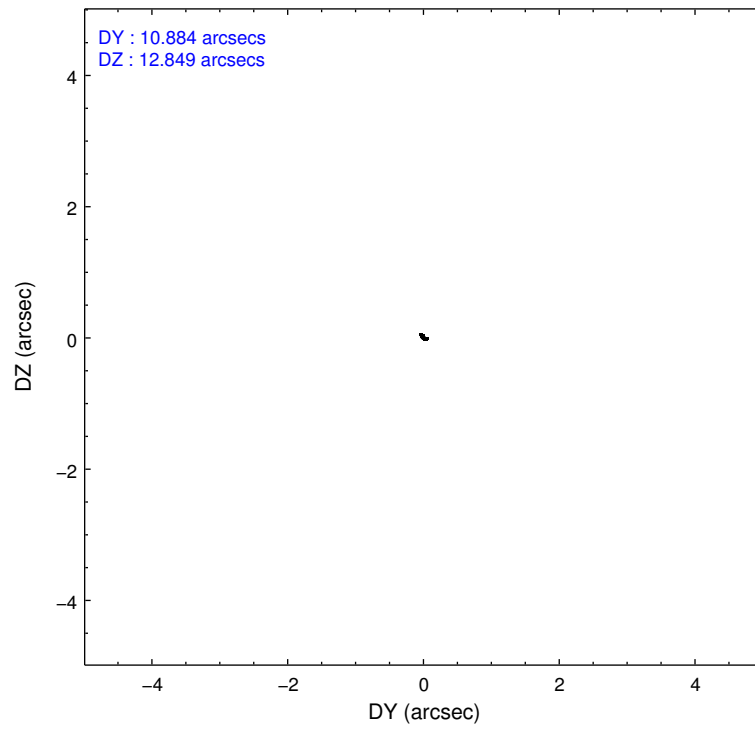
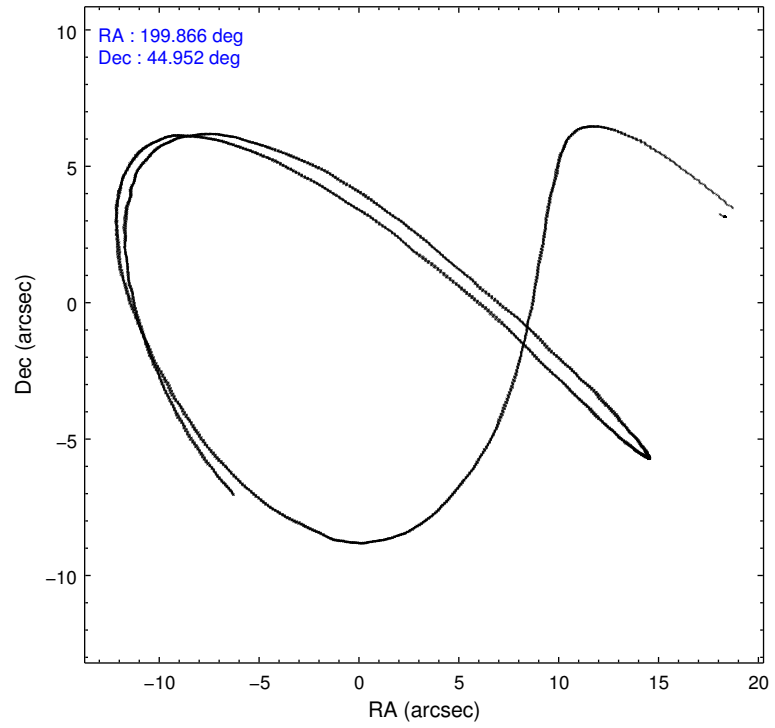
	ccd 6	ccd 7	ccd 8
level 1 events	8468	9592	11286
rejected events	7392	4975	8345
rejected %	87%	51%	73%

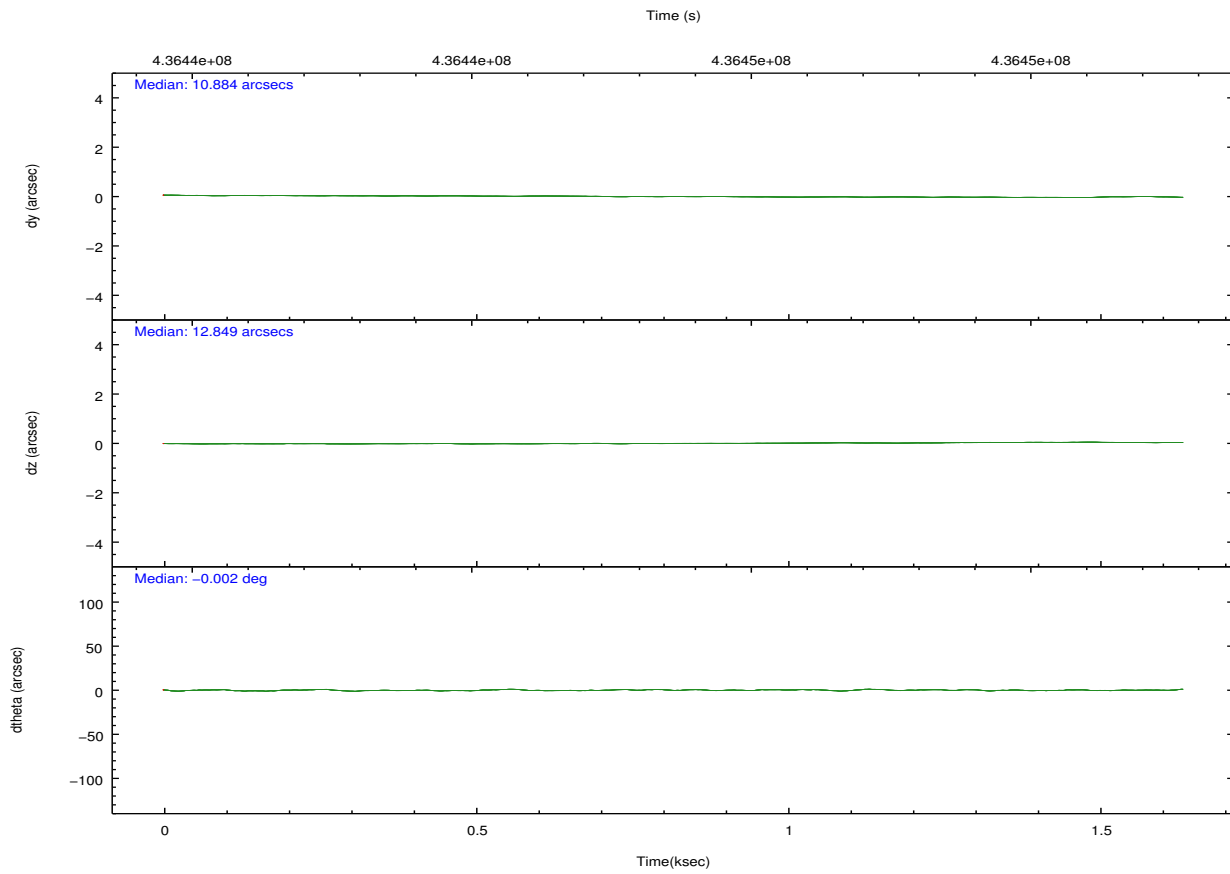
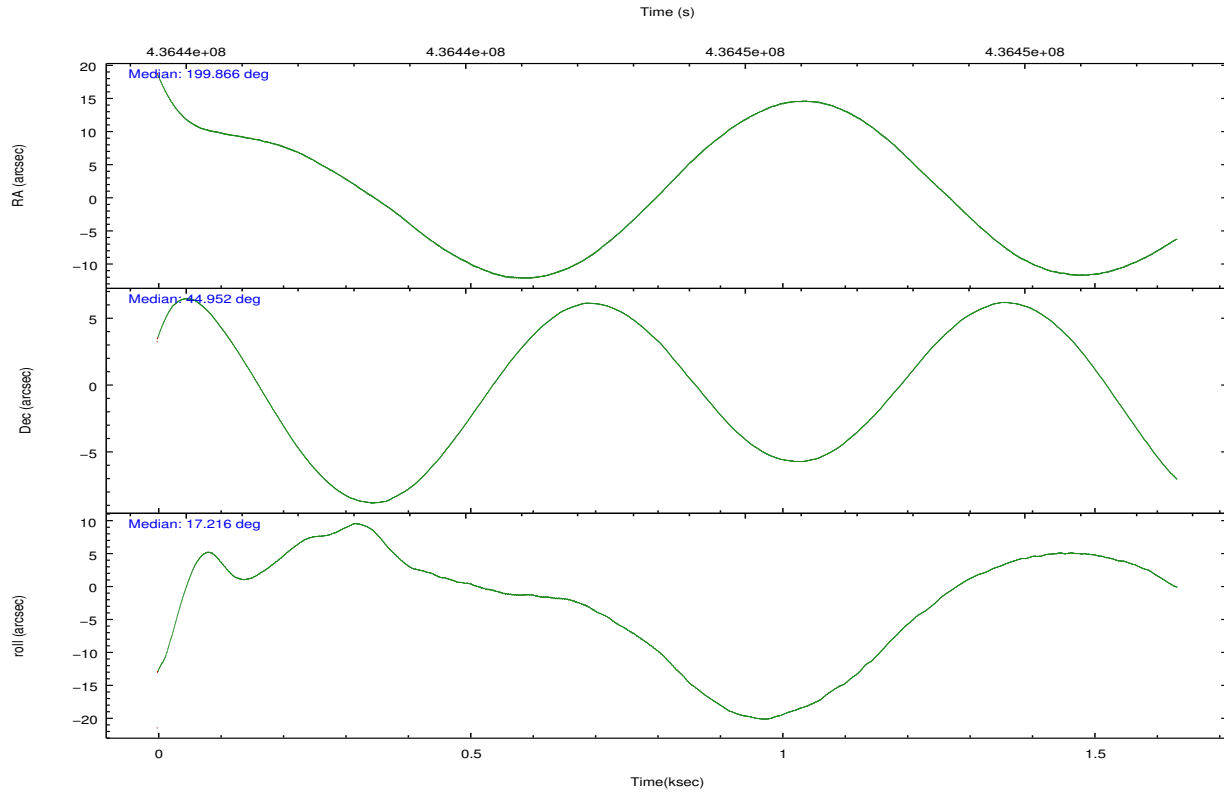
	ccd 6	ccd 7	ccd 8
grade 0 events	422	428	819
	4%	4%	7%
grade 1 events	3	16	7
	0%	0%	0%
grade 2 events	245	1033	768
	2%	10%	6%
grade 3 events	103	405	259
	1%	4%	2%
grade 4 events	90	416	249
	1%	4%	2%
grade 5 events	394	1018	597
	4%	10%	5%
grade 6 events	220	2343	848
	2%	24%	7%
grade 7 events	6991	3933	7739
	82%	41%	68%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	199.840289	199.866072315767	Subarray requested	NONE	NONE
[deg] Pointing Dec	44.931626	44.9519677815995	Alternating exposures requested	N	N
[deg] Pointing Roll	17.075321	17.21363970725475	[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	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	436444675.184000	436443443.35283			
Observation start date	2011-10-31T10:36:49	2011-10-31T10:17:23			
[s] Observation end time (MET)	436446175.184000	436446576.77799			
Observation end date	2011-10-31T11:01:49	2011-10-31T11:09:36			
Read mode	TIMED	TIMED			

## 2.3 Aspect





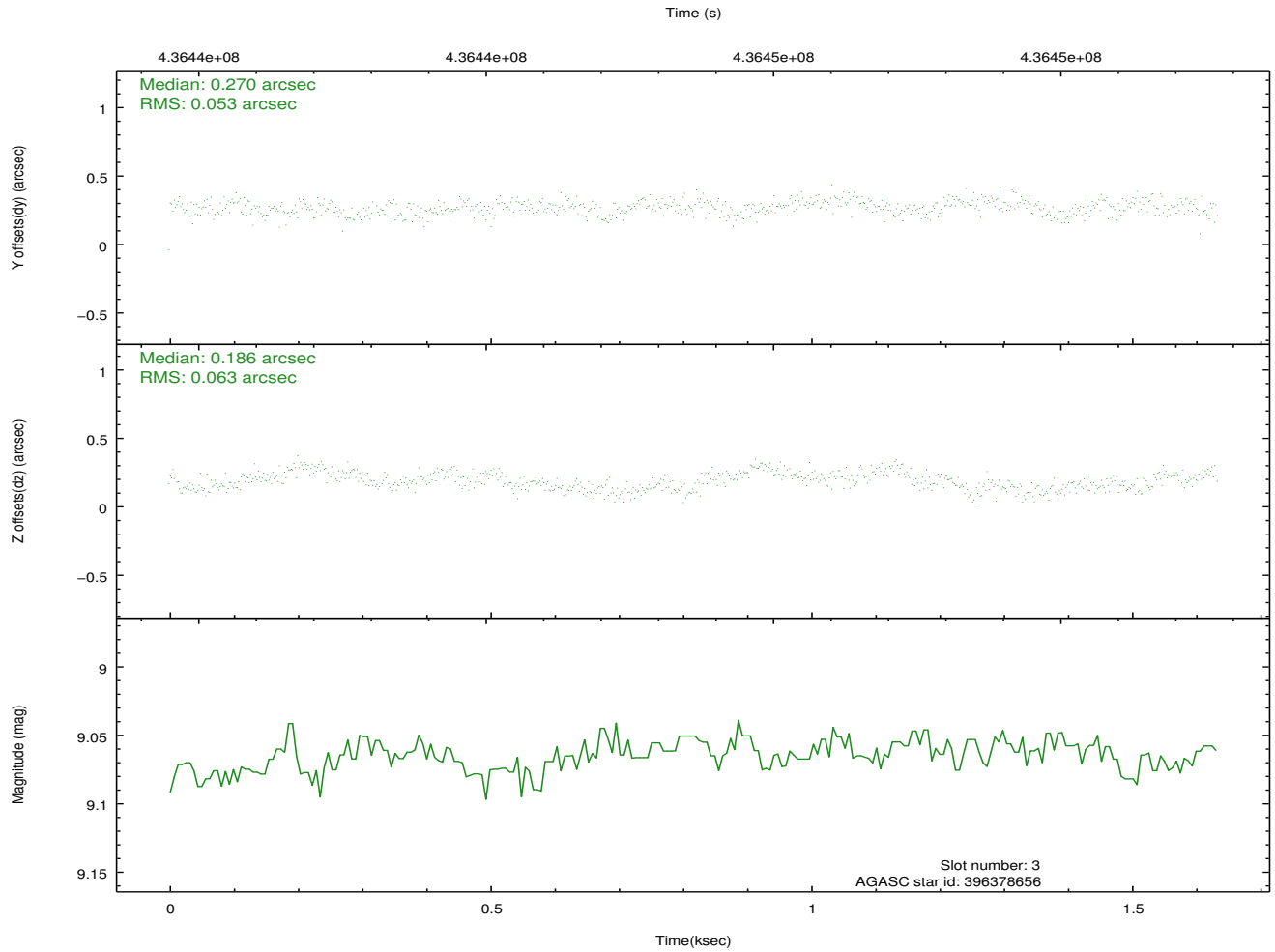
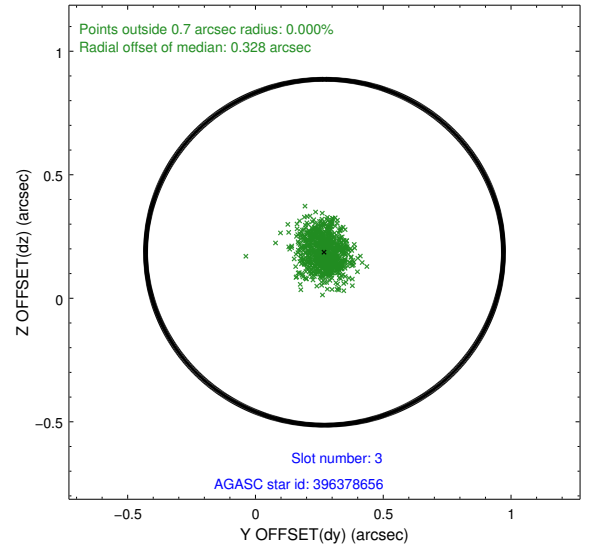
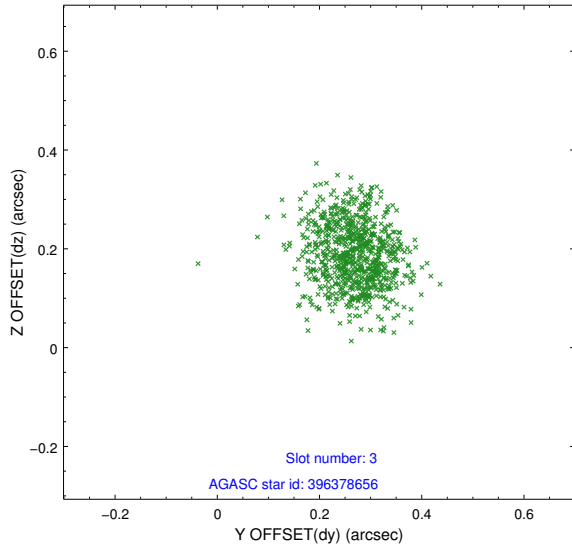
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.02	399	0.046	-0.028	0.006	0.011	0.000000	0.000000	932.23	-1729.79
1	FID	ACIS-S-2	6.93	399	-0.134	-0.037	0.005	0.009	0.000000	0.000000	-761.61	-1738.42
2	FID	ACIS-S-4	7.02	399	0.062	0.071	0.005	0.009	0.000000	0.000000	2147.76	170.21
3	GUIDE	396378656	9.06	798	0.270	0.186	0.087	0.141	199.073320	44.722991	-2092.54	-132.78
4	GUIDE	453518632	8.55	798	-0.004	-0.119	0.096	0.145	200.096493	45.109368	807.91	421.02
5	GUIDE	453522280	8.89	798	-0.021	-0.110	0.082	0.130	199.817107	45.099885	121.23	596.81
6	GUIDE	453523240	9.75	796	-0.019	-0.057	0.133	0.204	200.280966	45.522964	1688.86	1712.28
7	BAD	453525128	5.30	399	-0.454	0.206	0.081	0.123	199.865686	45.527119	694.51	2034.21

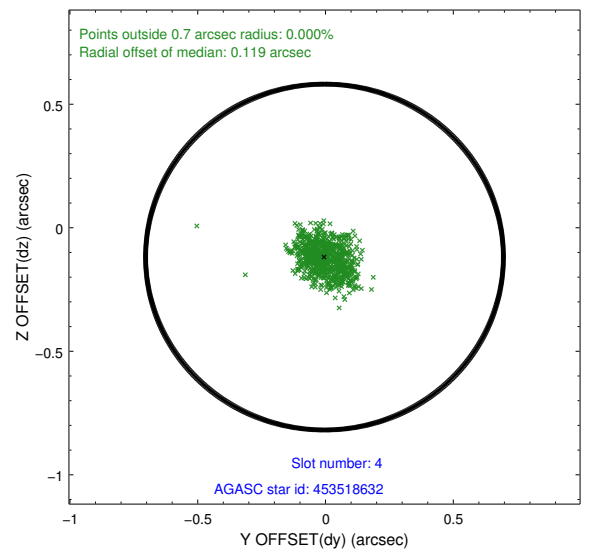
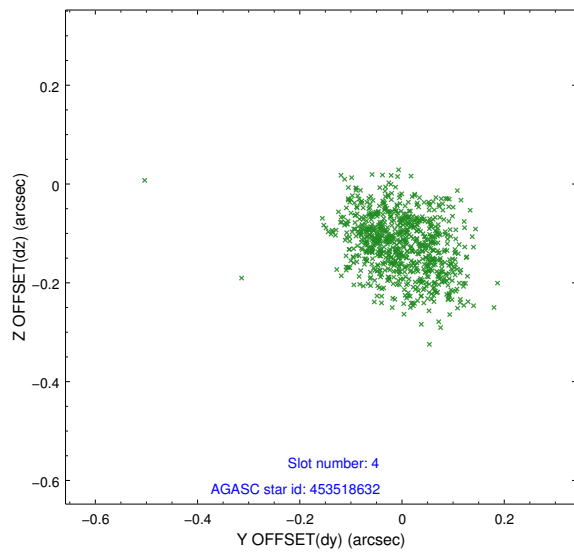
∞

## 2.4 Star Slots

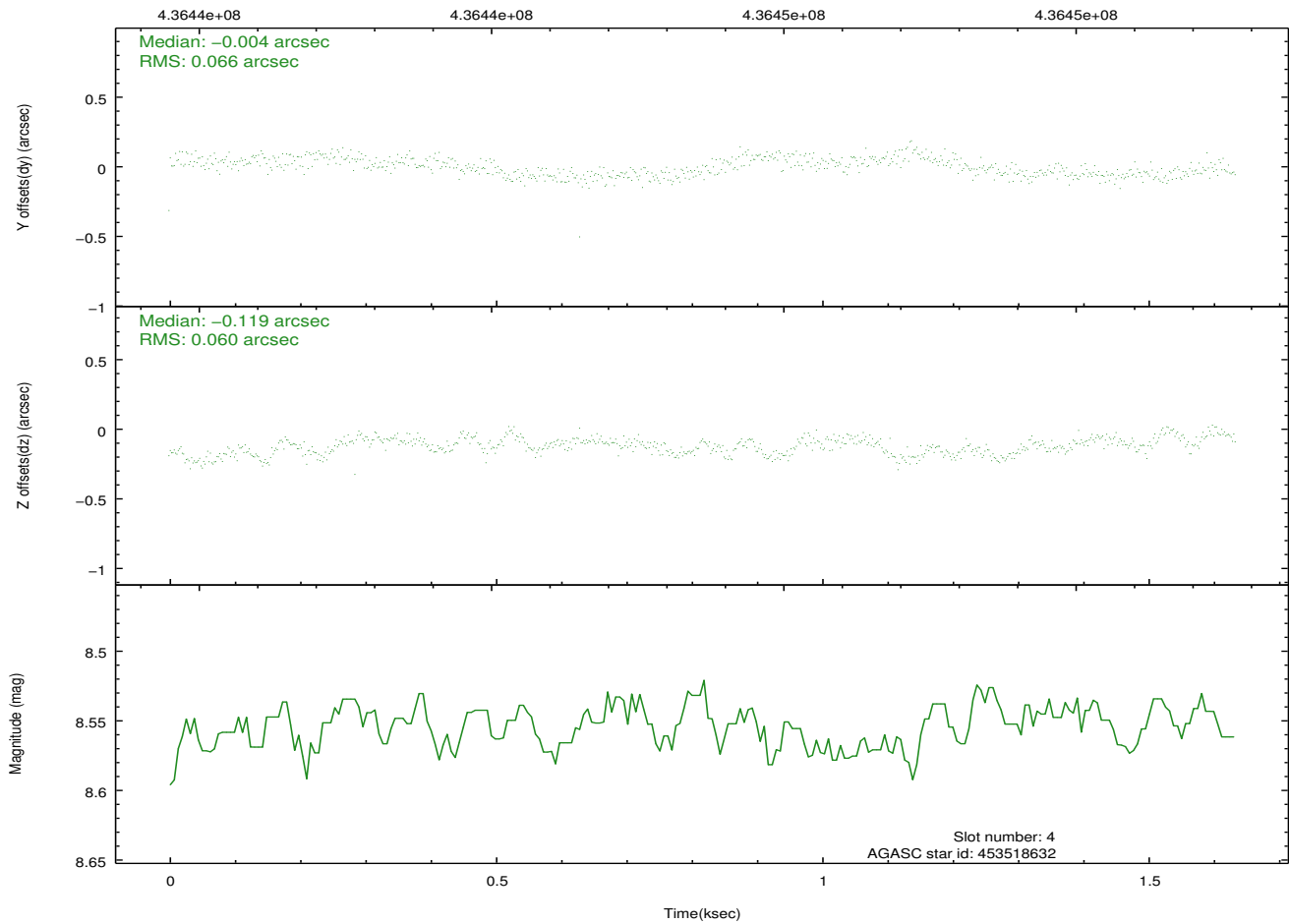
### 2.4.1 Slot 3



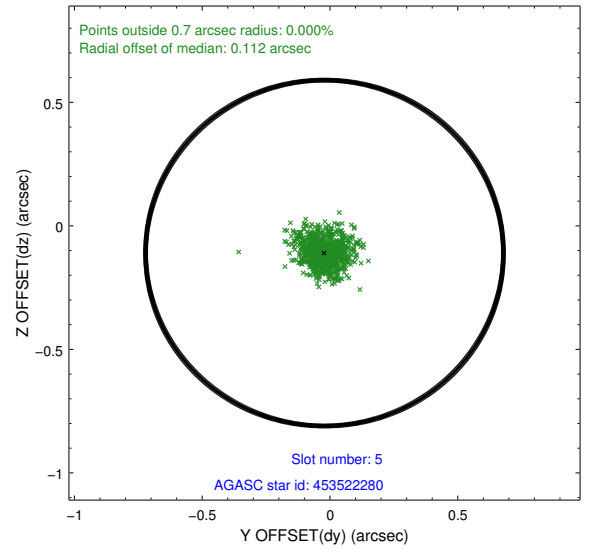
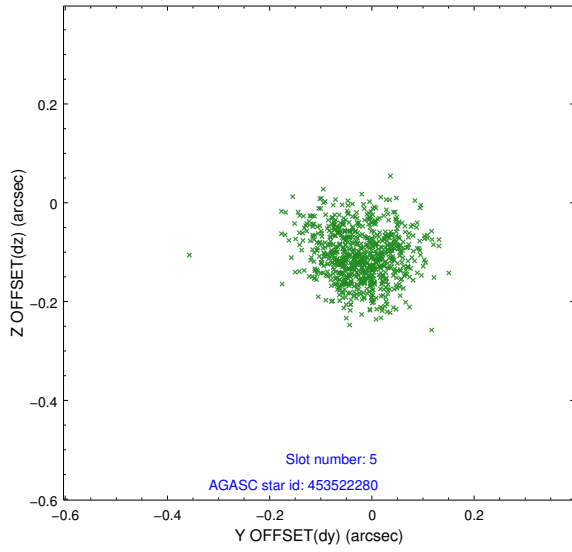
## 2.4.2 Slot 4



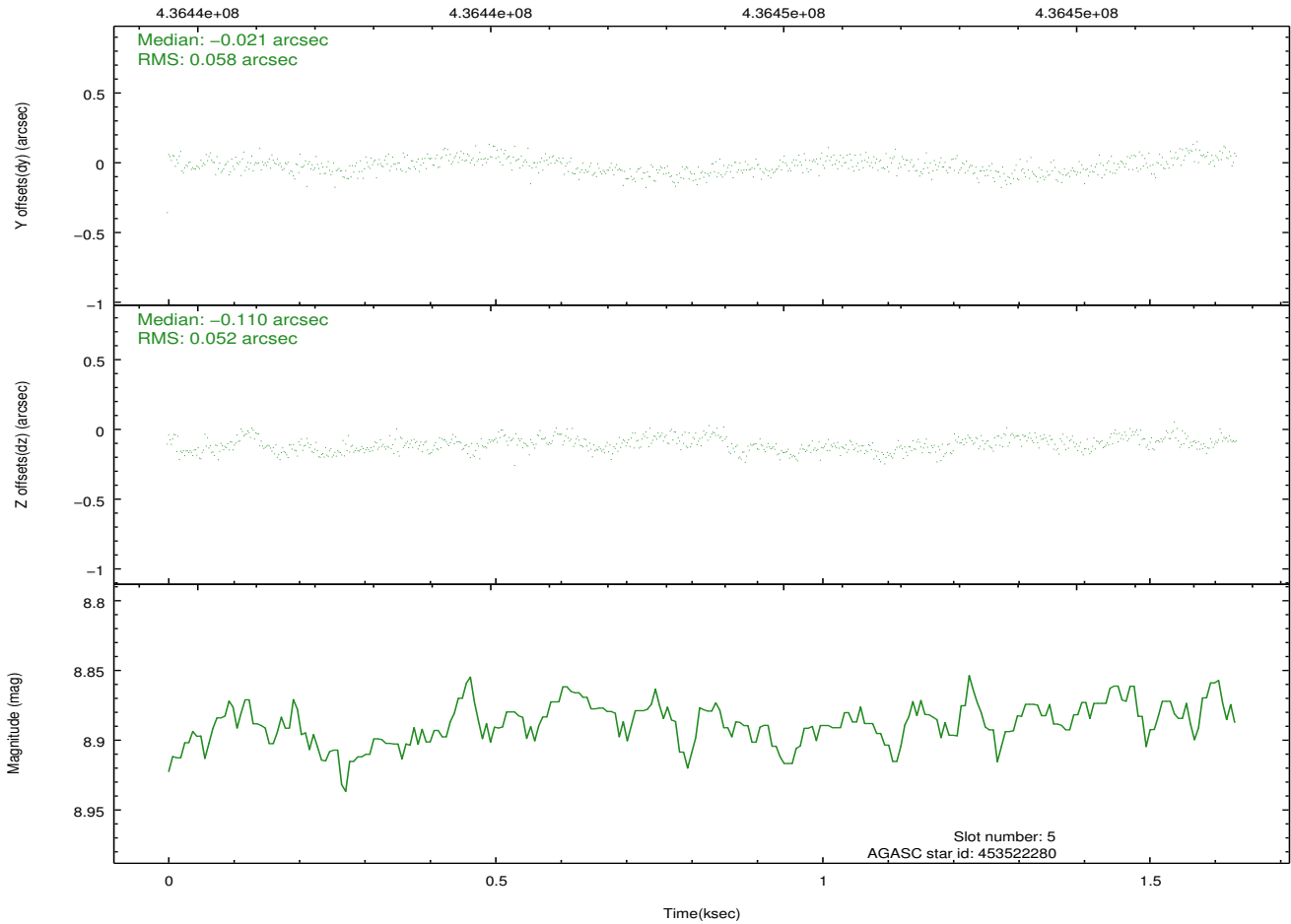
Time (s)



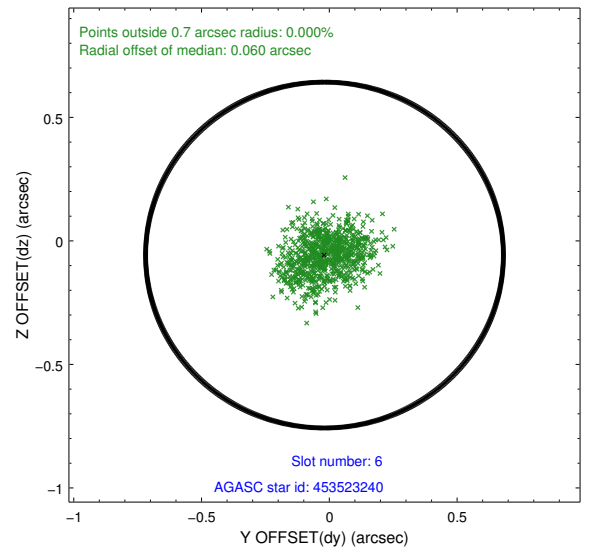
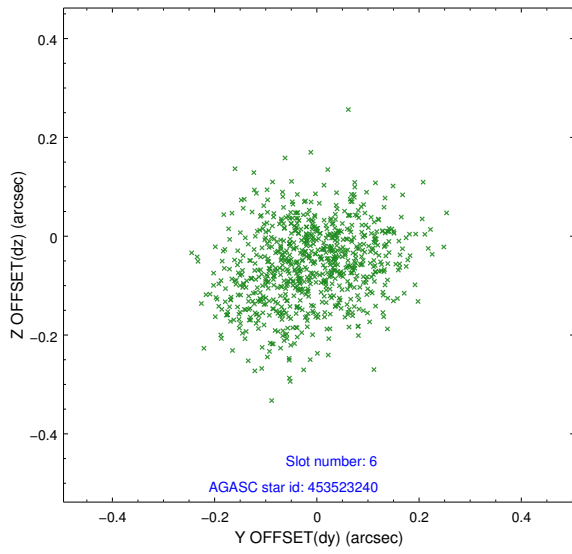
### 2.4.3 Slot 5



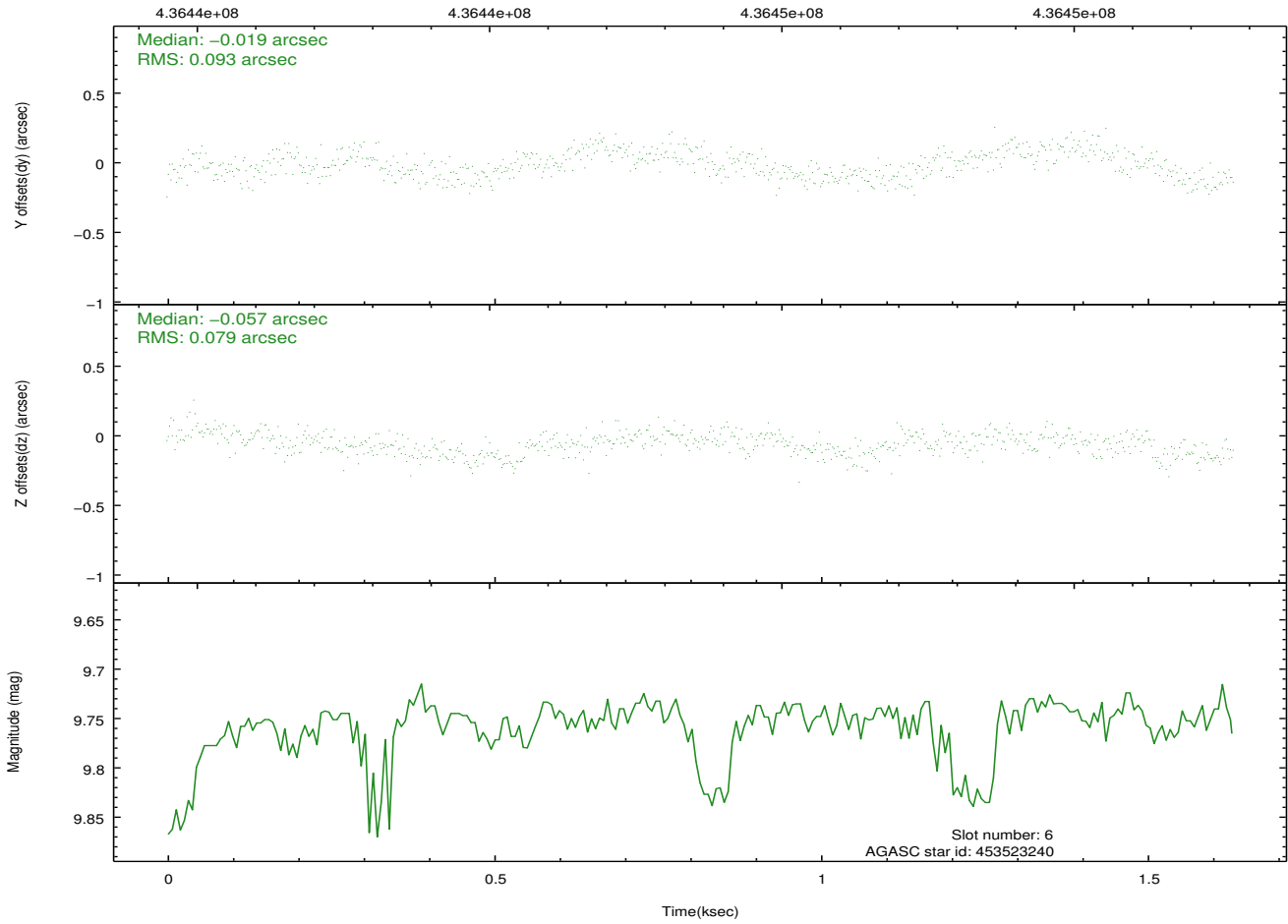
Time (s)



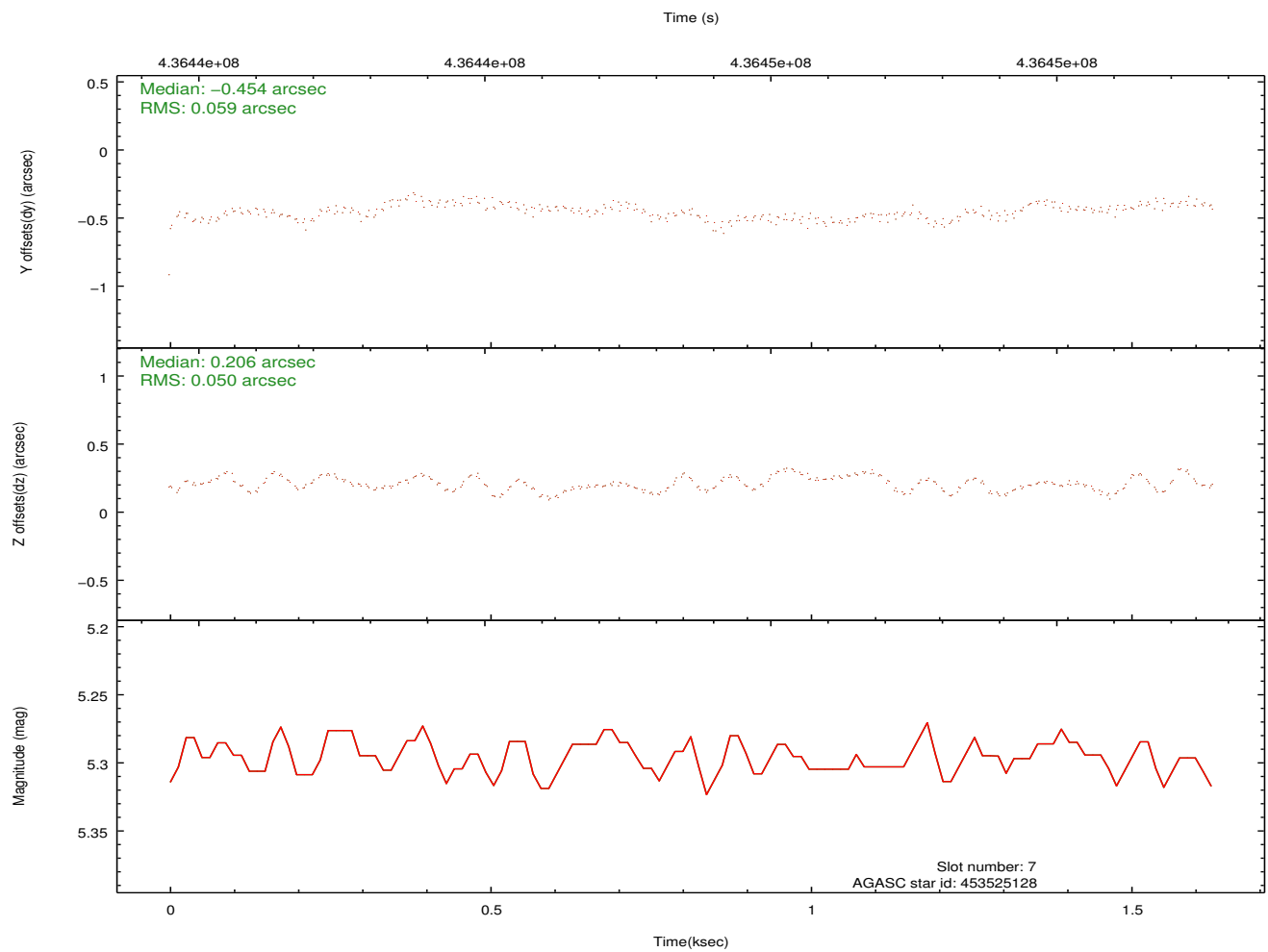
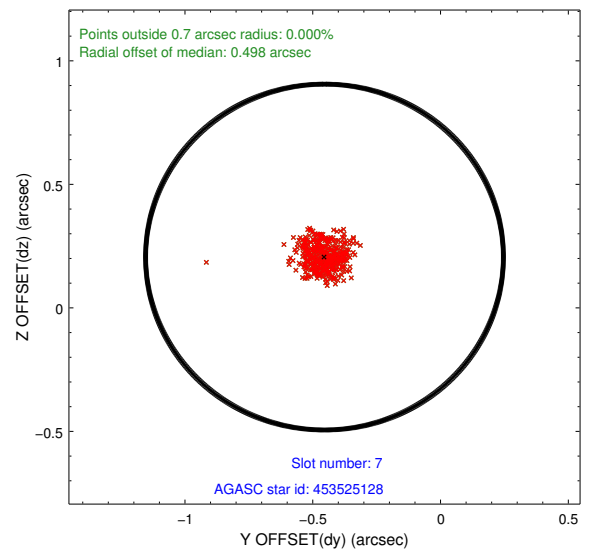
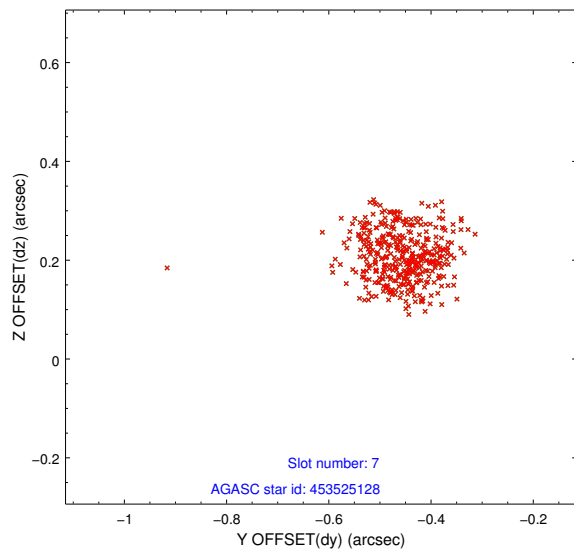
## 2.4.4 Slot 6



Time (s)

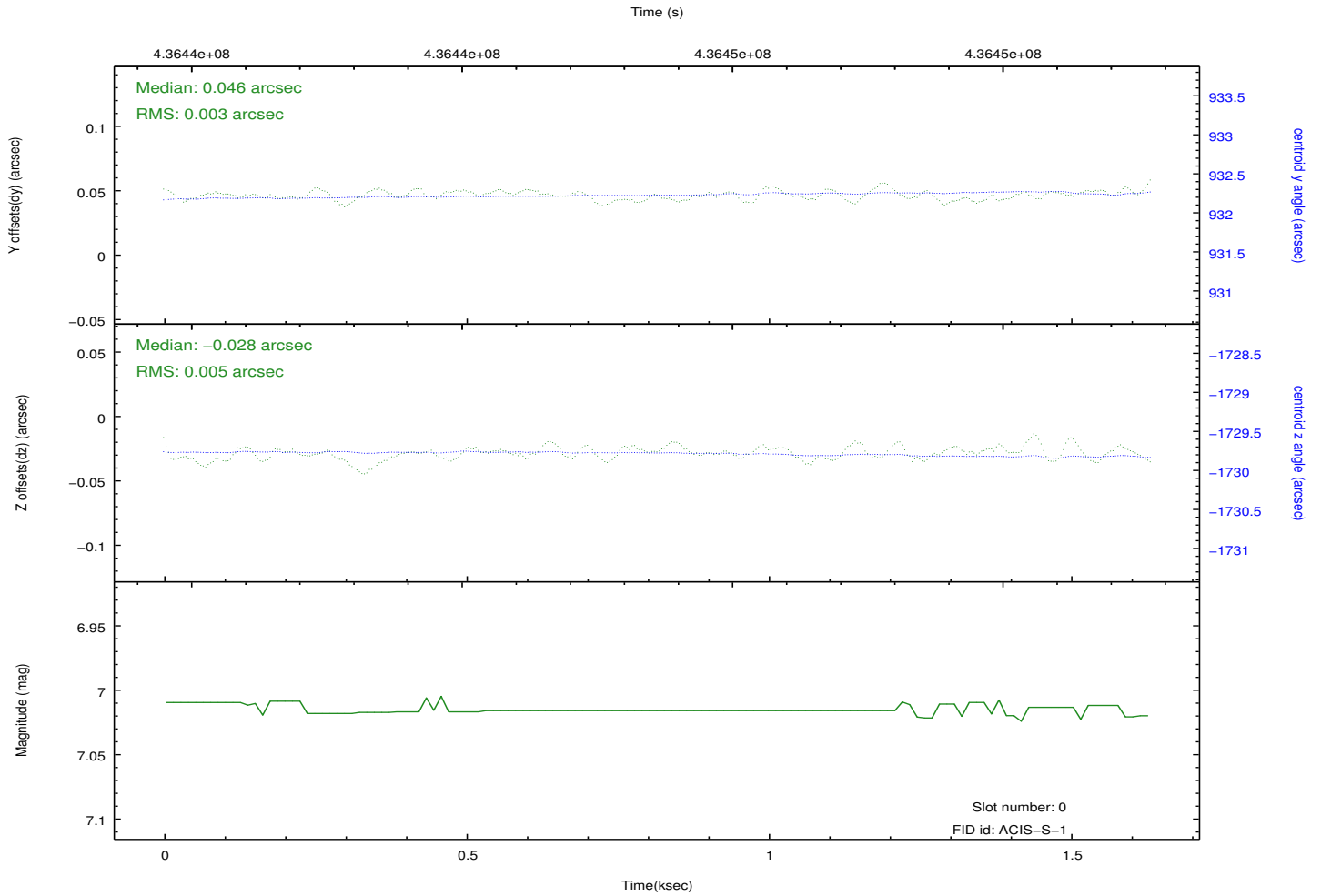
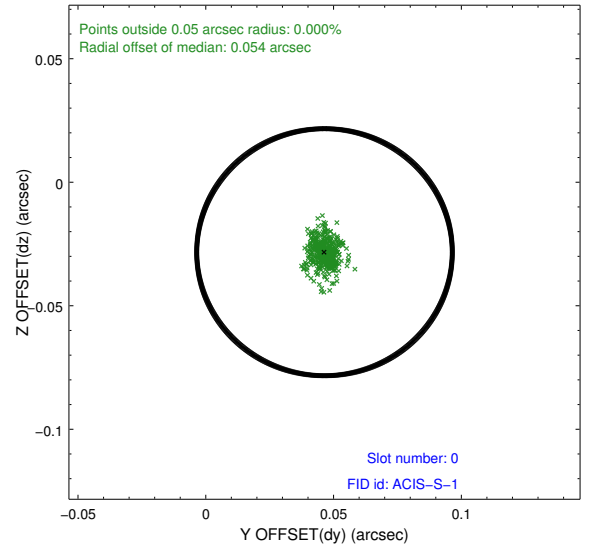
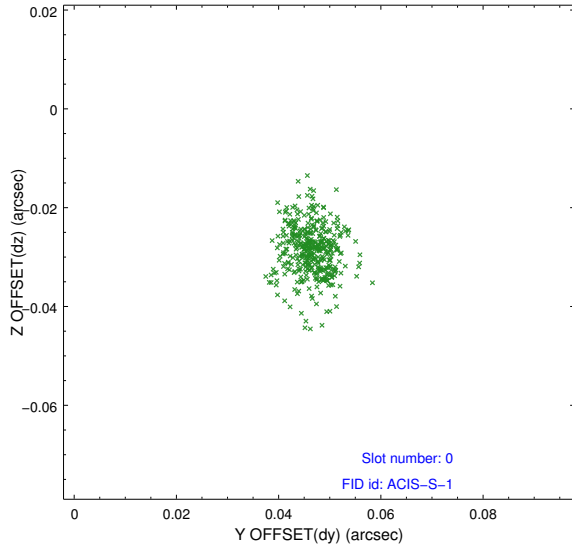


## 2.4.5 Slot 7

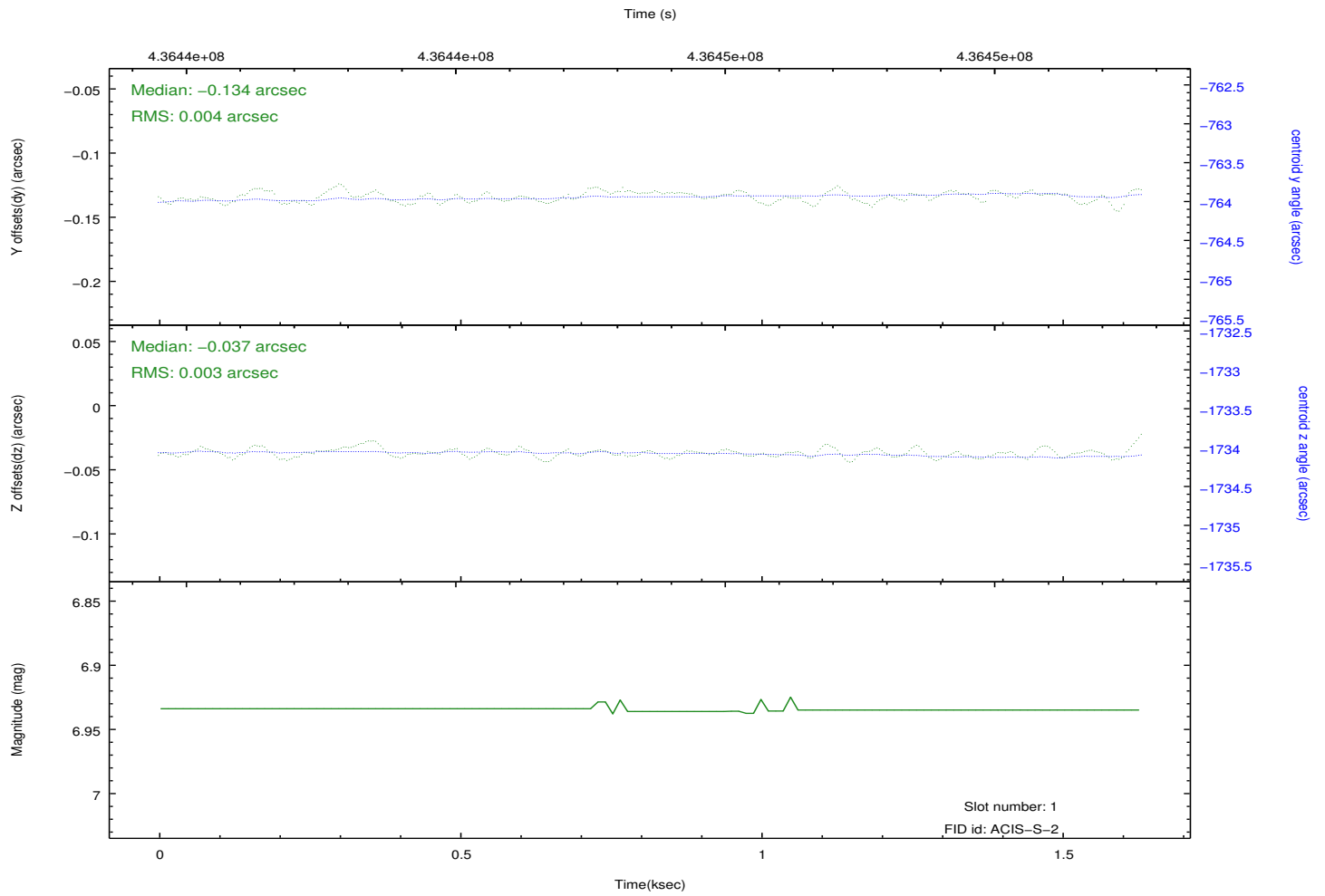
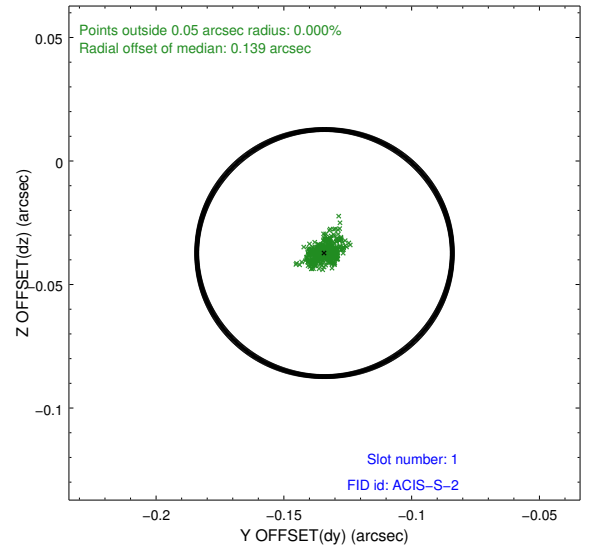
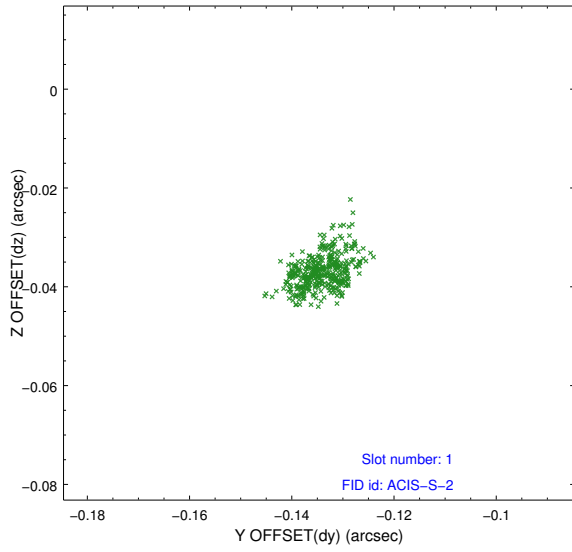


## 2.5 FID Slots

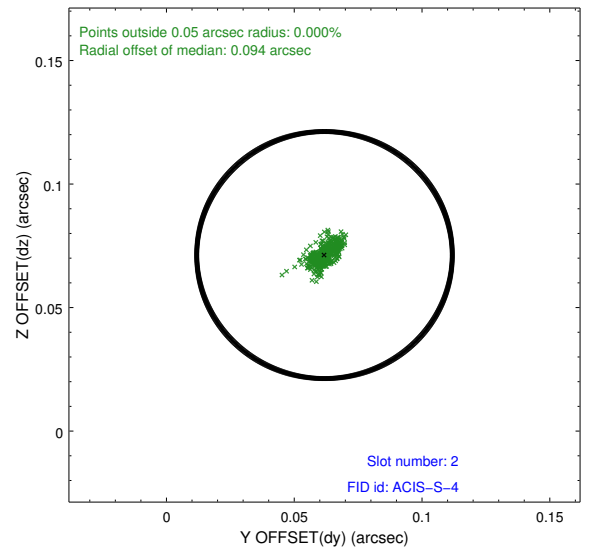
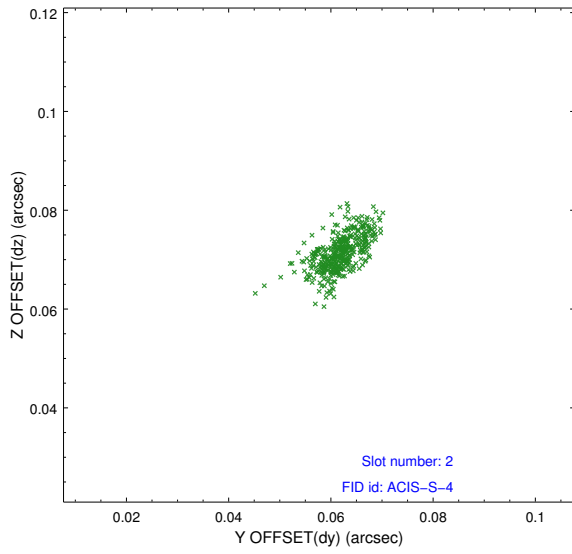
### 2.5.1 Slot 0



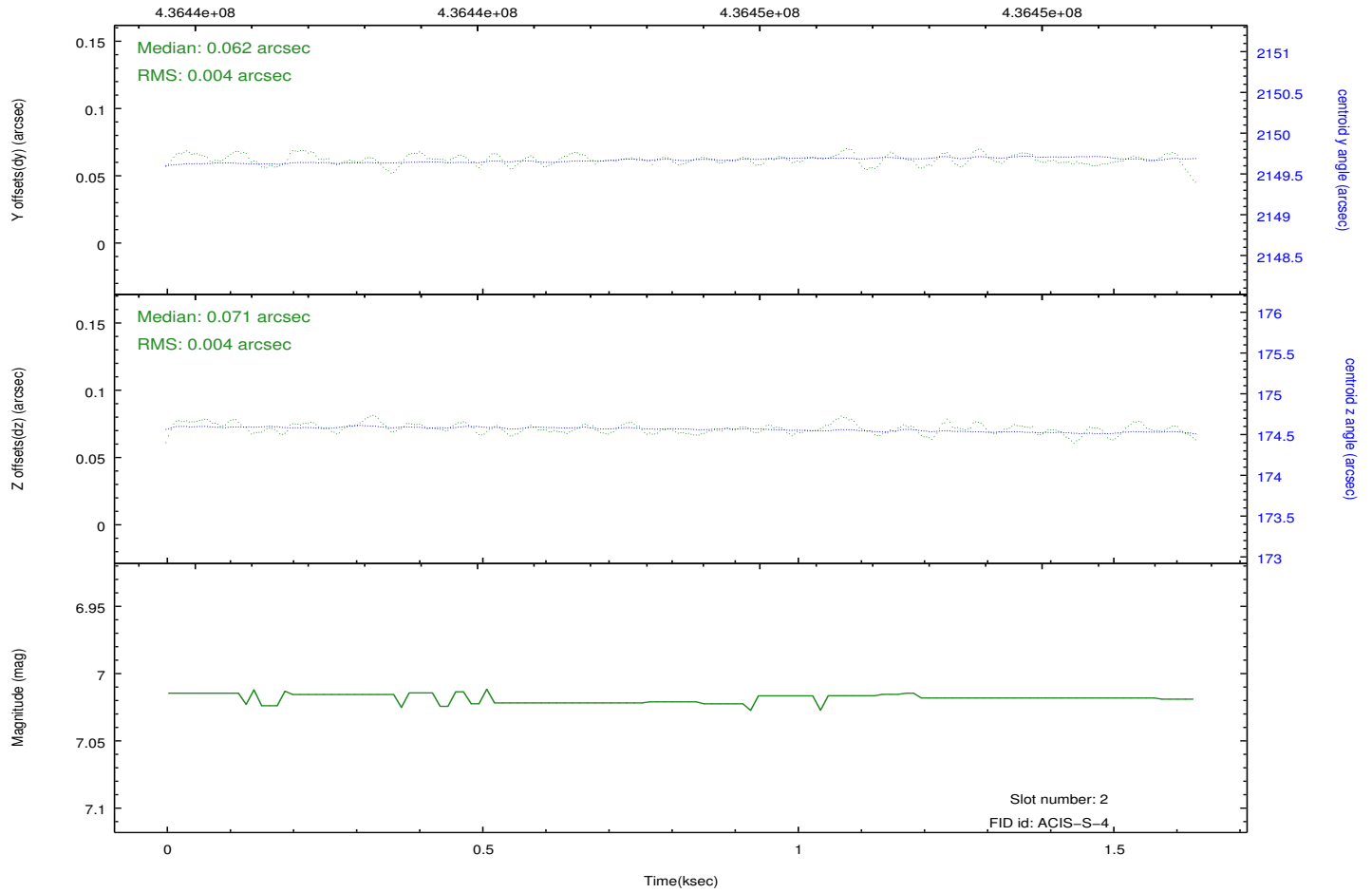
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.5593000119925

## A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one fid light or guide star from the solution.