

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13364 - L2 Version 2  
Chandra X-Ray Center

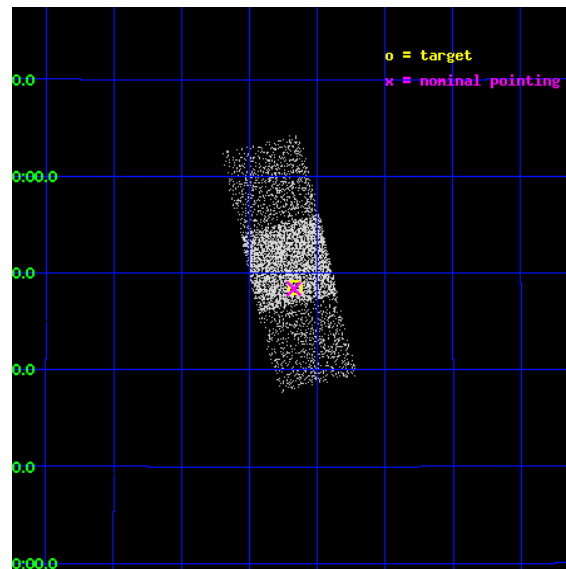
L2 Processing Date : Jul 20 2012

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# 1 Front

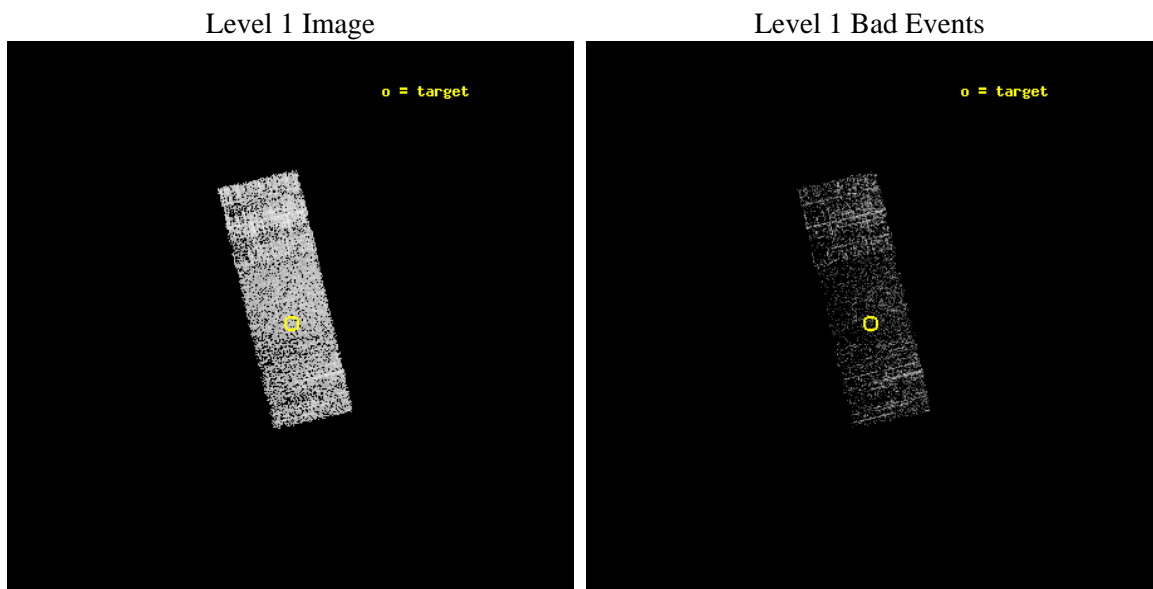
seq_num	702571	Sequence number
obs_id	13364	Observation id
title	A Large, Economical Snapshot Survey of the Most-Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1154+1848	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	178.66625	Observer's specified target RA [deg]
dec_targ	18.808417	Observer's specified target Dec [deg]
ra_nom	178.66815453422	Nominal RA [deg]
dec_nom	18.806175806935	Nominal Dec [deg]
roll_nom	256.76914815959	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1581.0000121593	Sum of GTIs [s]
livetime	1560.3430830852	Livetime [s]
ontime6	1581.0000121593	Sum of GTIs [s]
ontime7	1581.0000121593	Sum of GTIs [s]
ontime8	1577.8590518236	Sum of GTIs [s]
l2events	6434	Number of level 2 events



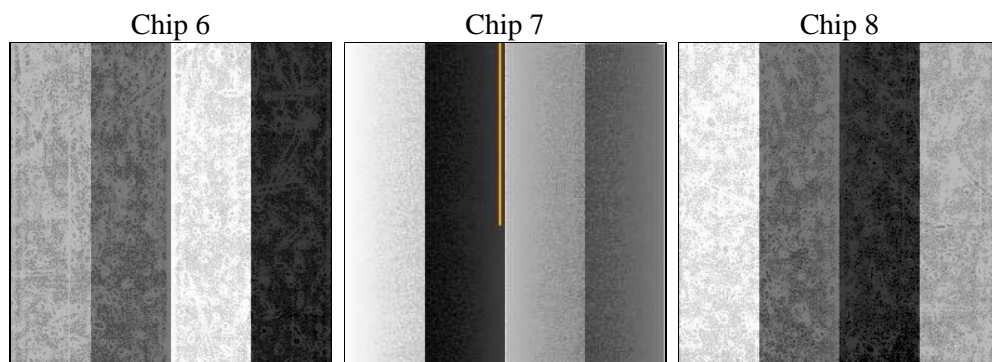
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1581.0000121593	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime6	1581.0000121593	Sum of GTIs [s]
date	2012-07-20T14:43:45	Date and time of file creation	ontime7	1581.0000121593	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	1577.8590518236	Sum of GTIs [s]
			l1events	30252	Number of level 1 events

### 2.1.4 Events

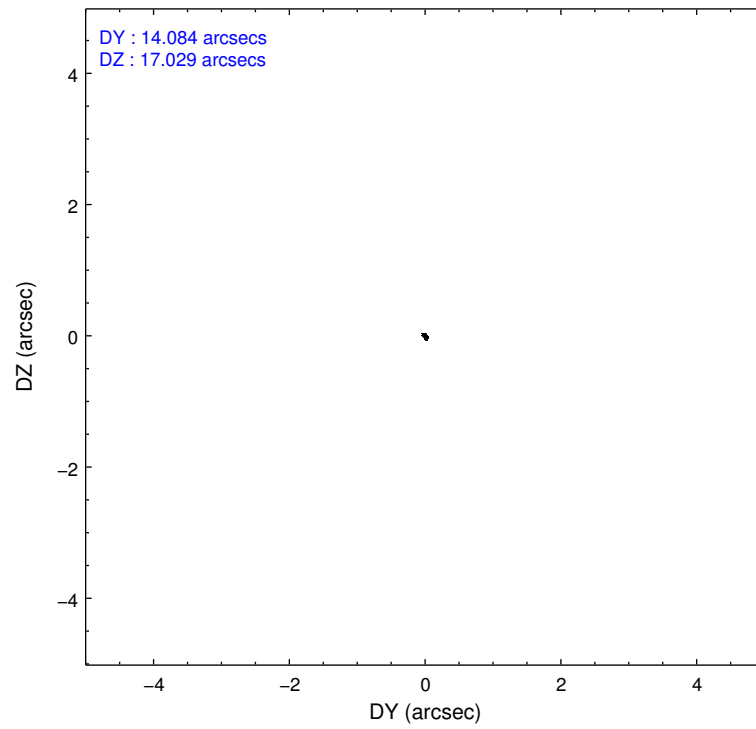
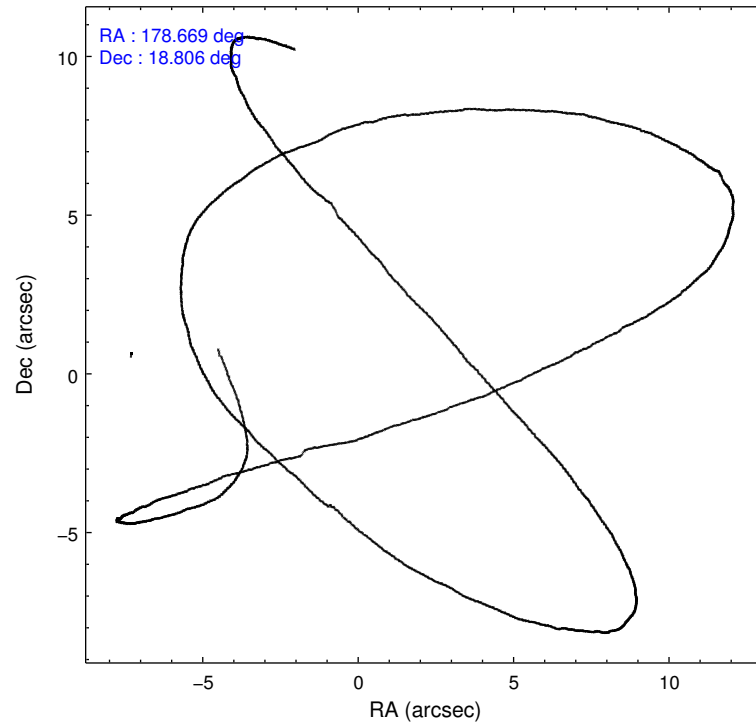
	ccd 6	ccd 7	ccd 8
level 1 events	7810	9233	13209
rejected events	6705	4585	8449
rejected %	85%	49%	63%

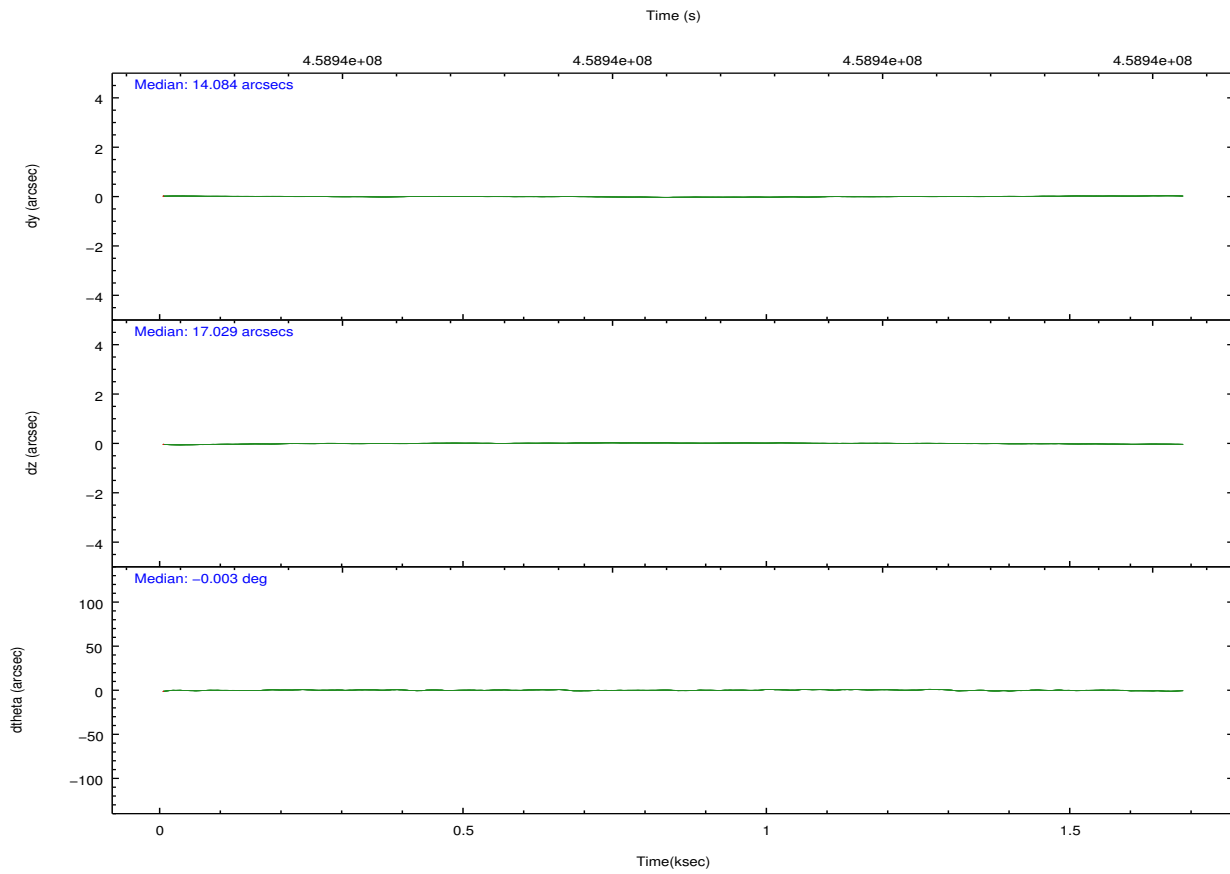
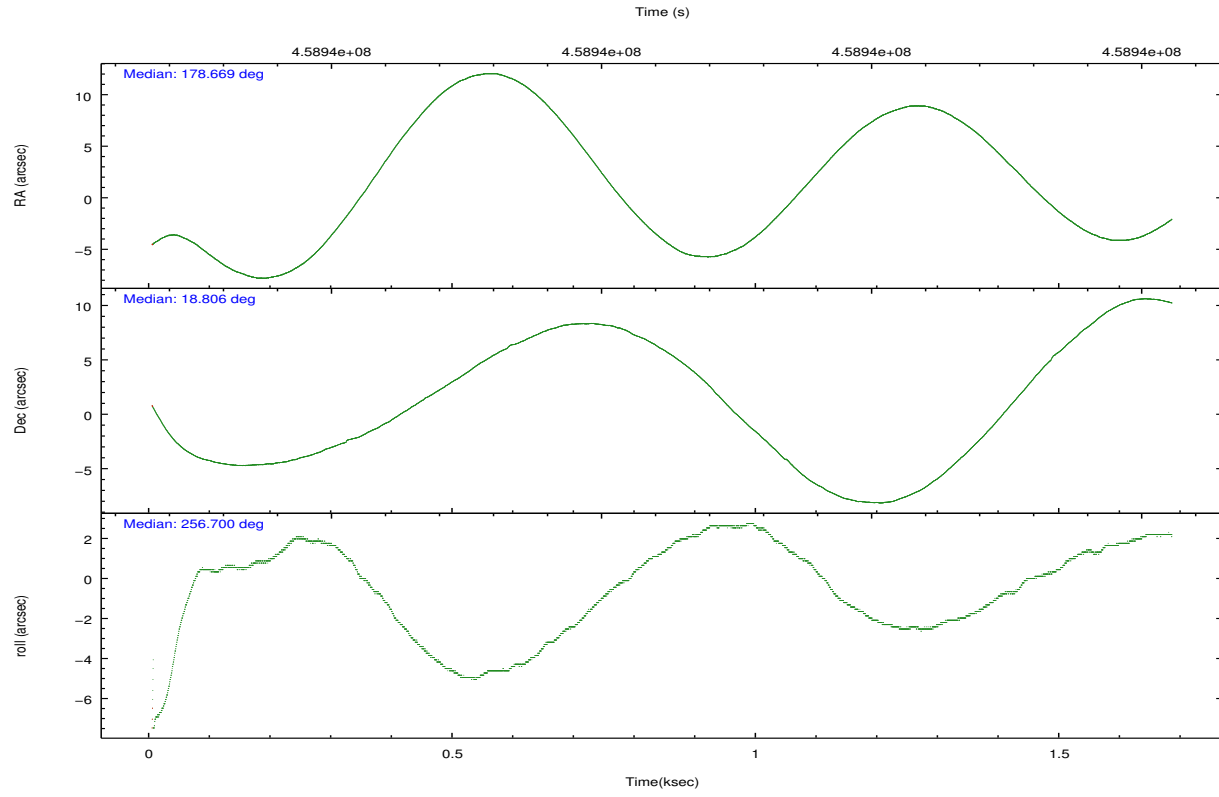
	ccd 6	ccd 7	ccd 8
grade 0 events	424	457	1505
	5%	4%	11%
grade 1 events	8	5	9
	0%	0%	0%
grade 2 events	262	1072	871
	3%	11%	6%
grade 3 events	111	435	668
	1%	4%	5%
grade 4 events	97	392	594
	1%	4%	4%
grade 5 events	352	906	556
	4%	9%	4%
grade 6 events	213	2302	1144
	2%	24%	8%
grade 7 events	6343	3664	7862
	81%	39%	59%

## 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	178.659770	178.6681545342209	Subarray requested	NONE	NONE
[deg] Pointing Dec	18.832317	18.80617580693533	Alternating exposures requested	N	N
[deg] Pointing Roll	256.615324	256.7691481595941	[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)	458939452.184000	458938279.04122			
Observation start date	2012-07-17T19:09:45	2012-07-17T18:51:19			
[s] Observation end time (MET)	458940952.184000	458941895.75391			
Observation end date	2012-07-17T19:34:45	2012-07-17T19:51:35			
Read mode	TIMED	TIMED			

## 2.3 Aspect





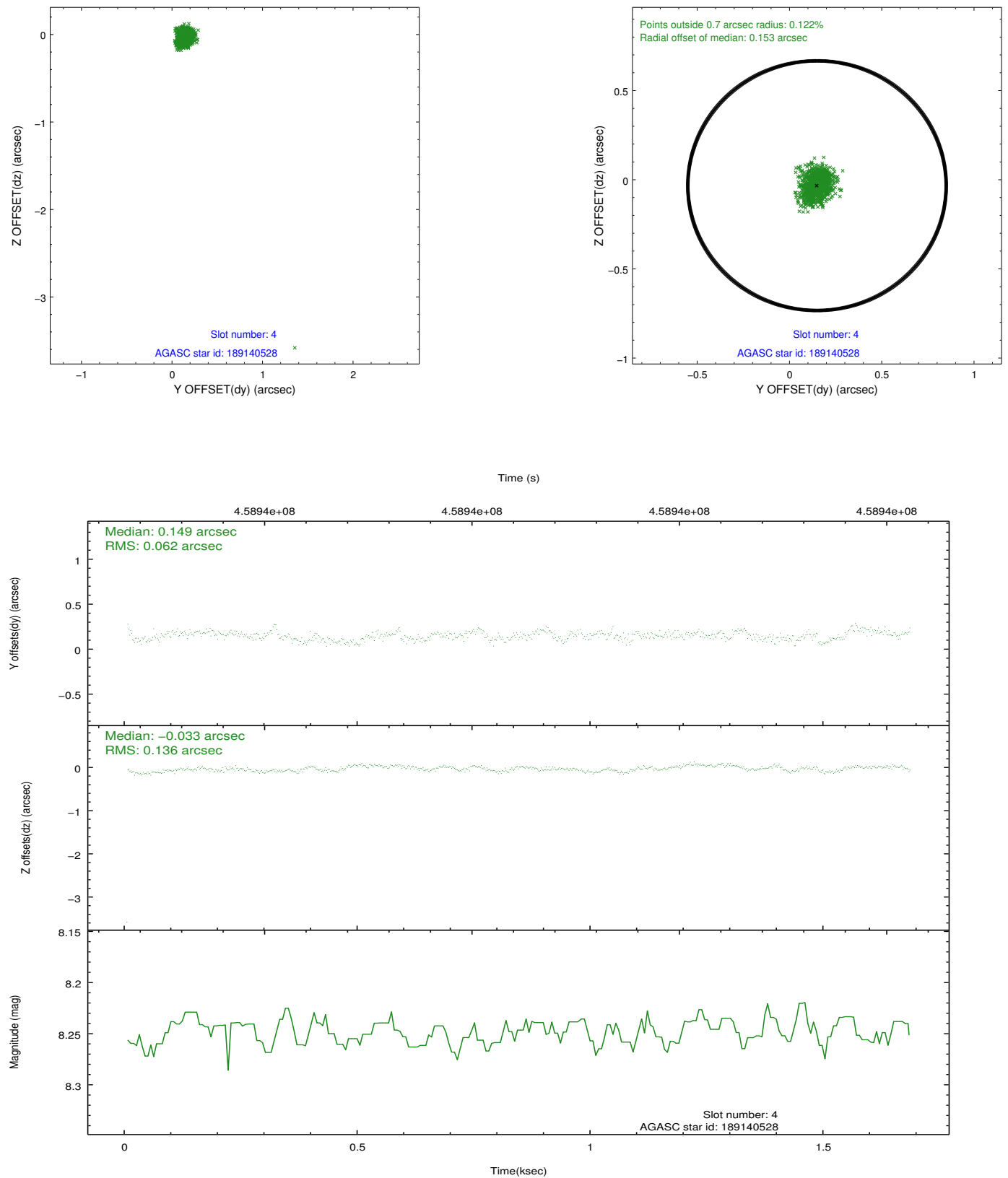
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	411	-0.059	-0.018	0.007	0.010	0.000000	0.000000	-767.13	-1738.46
1	FID	ACIS-S-4	6.99	411	0.203	0.033	0.006	0.010	0.000000	0.000000	2144.66	165.94
2	FID	ACIS-S-5	7.03	411	-0.176	-0.006	0.007	0.011	0.000000	0.000000	-1815.03	164.12
3	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	189140528	8.25	820	0.149	-0.033	0.079	0.122	178.633618	19.411233	-2005.71	-572.89
5	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	188882224	8.04	821	-0.345	-0.051	0.056	0.093	178.532165	18.169563	2419.76	128.09
7	GUIDE	189140696	8.45	820	0.197	0.089	0.090	0.135	178.646164	19.427835	-2070.75	-545.08

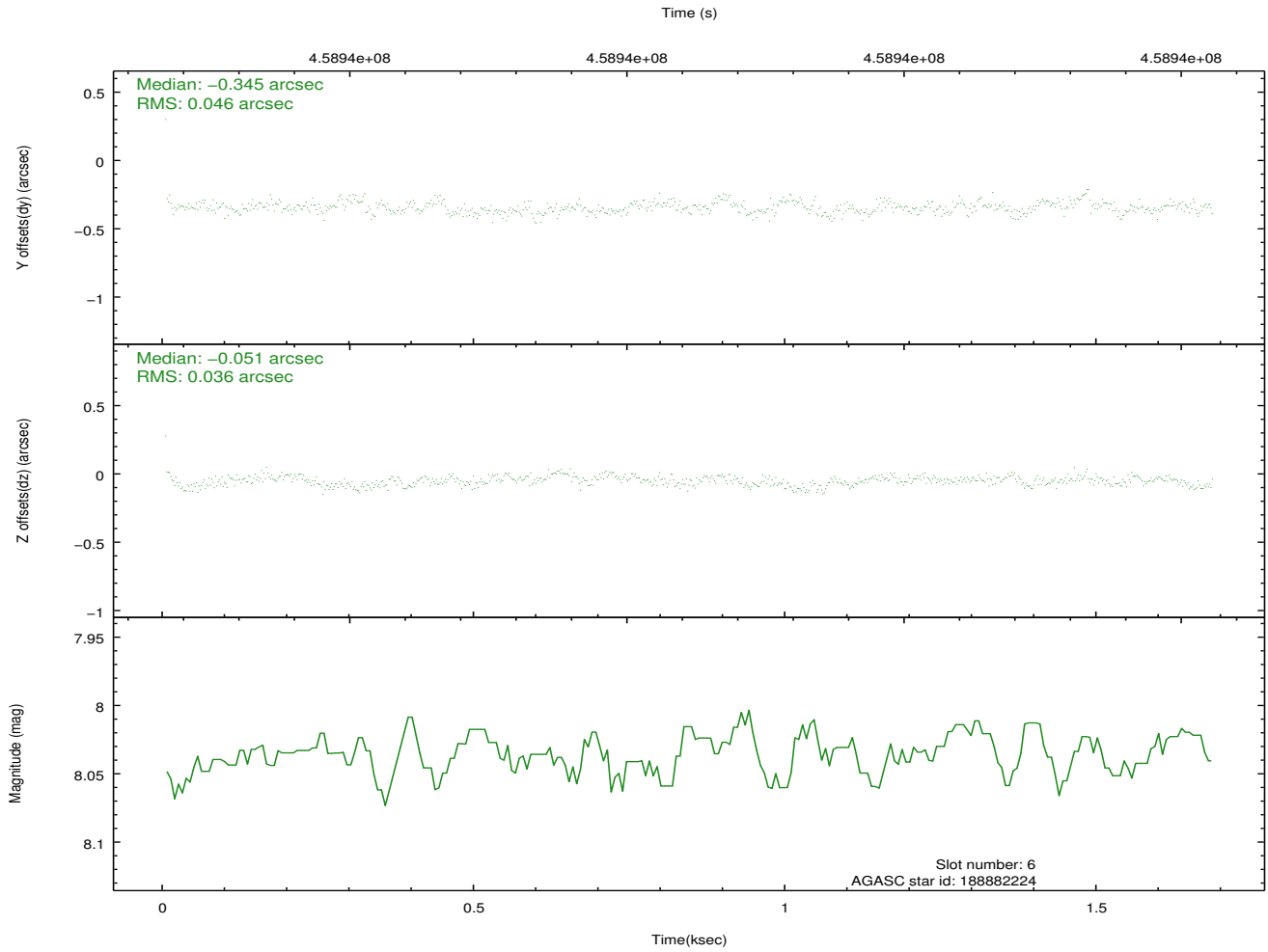
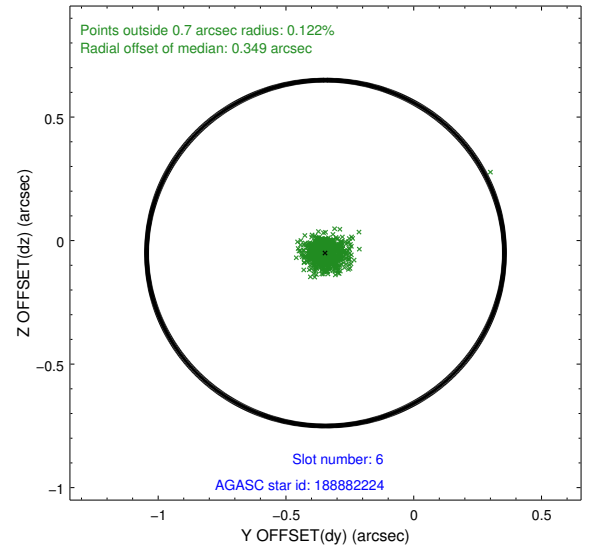
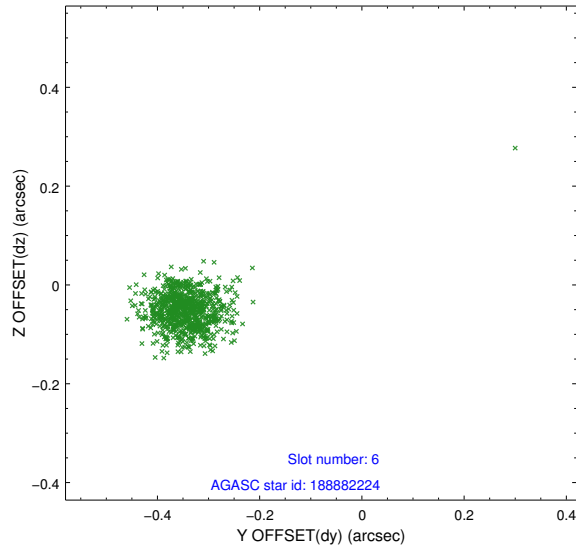


## 2.4 Star Slots

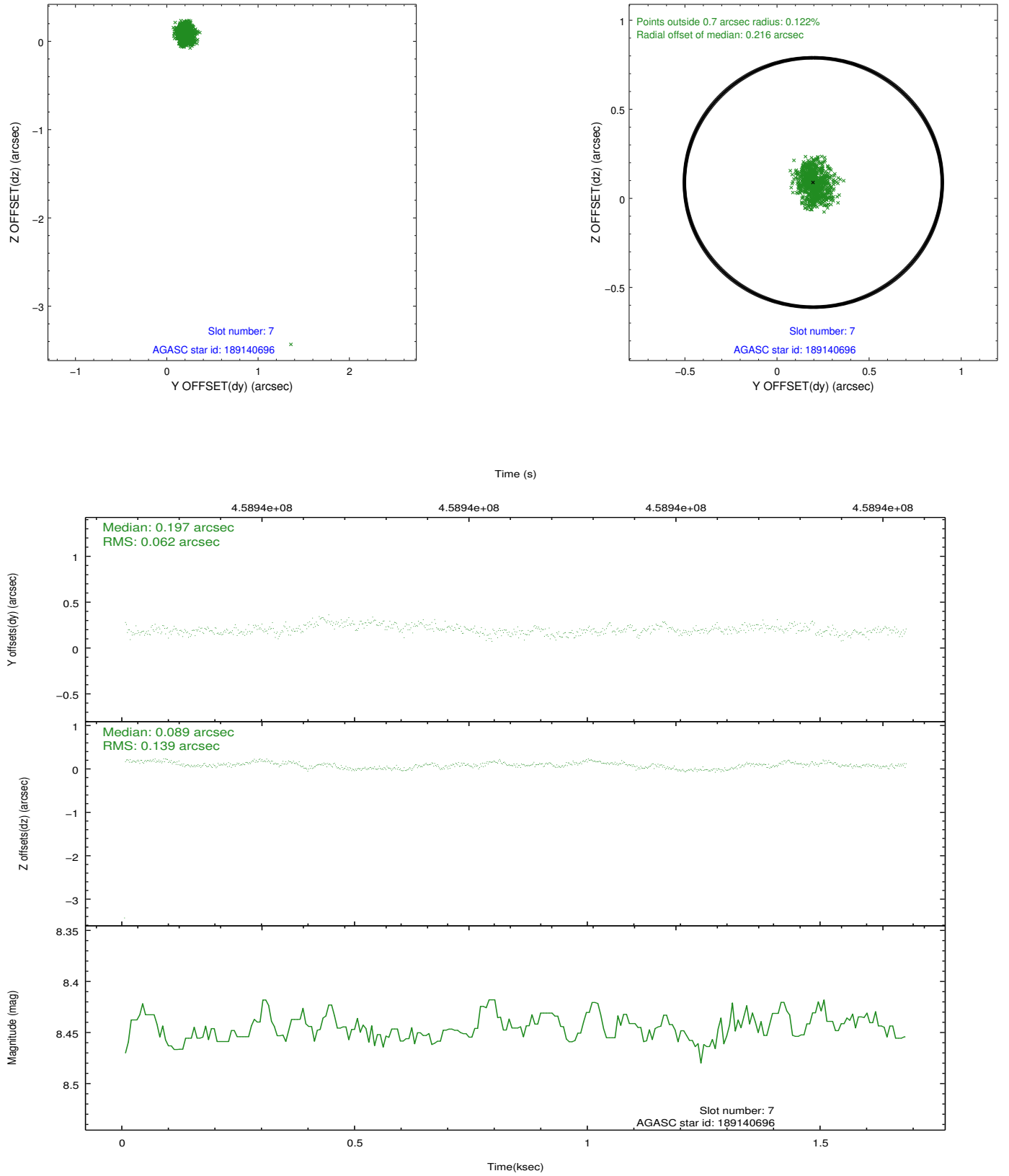
### 2.4.1 Slot 4



## 2.4.2 Slot 6

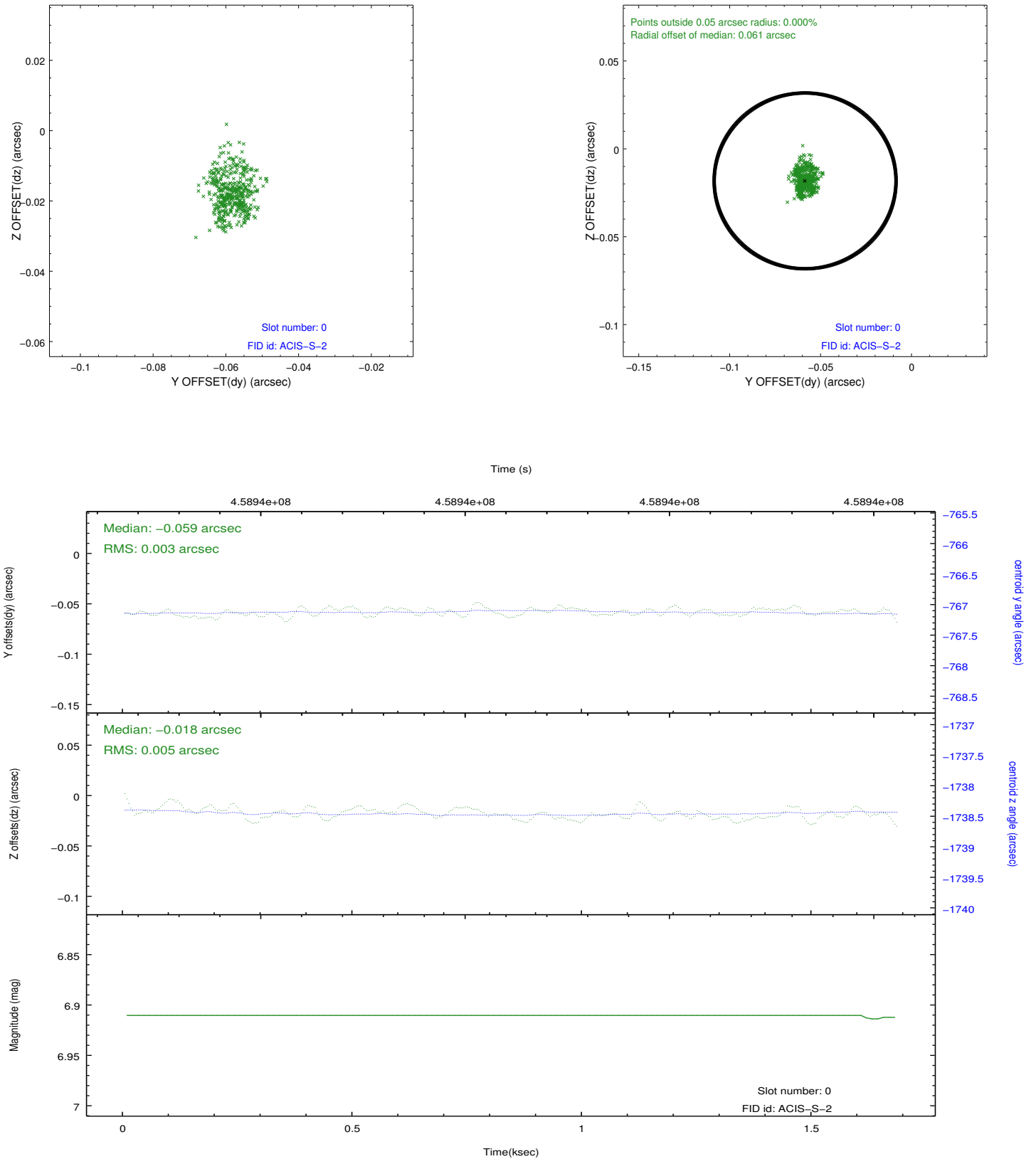


### 2.4.3 Slot 7

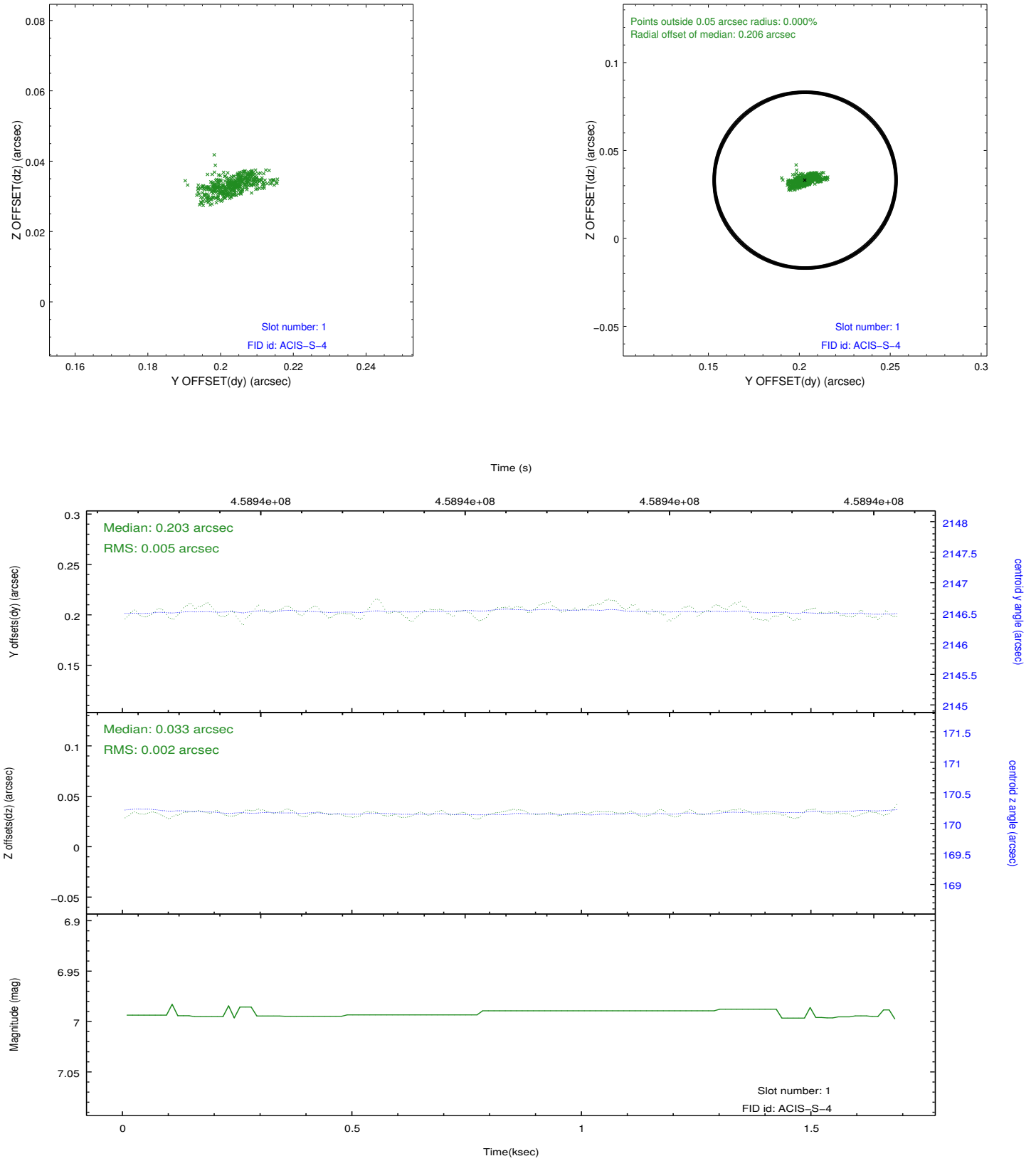


## 2.5 FID Slots

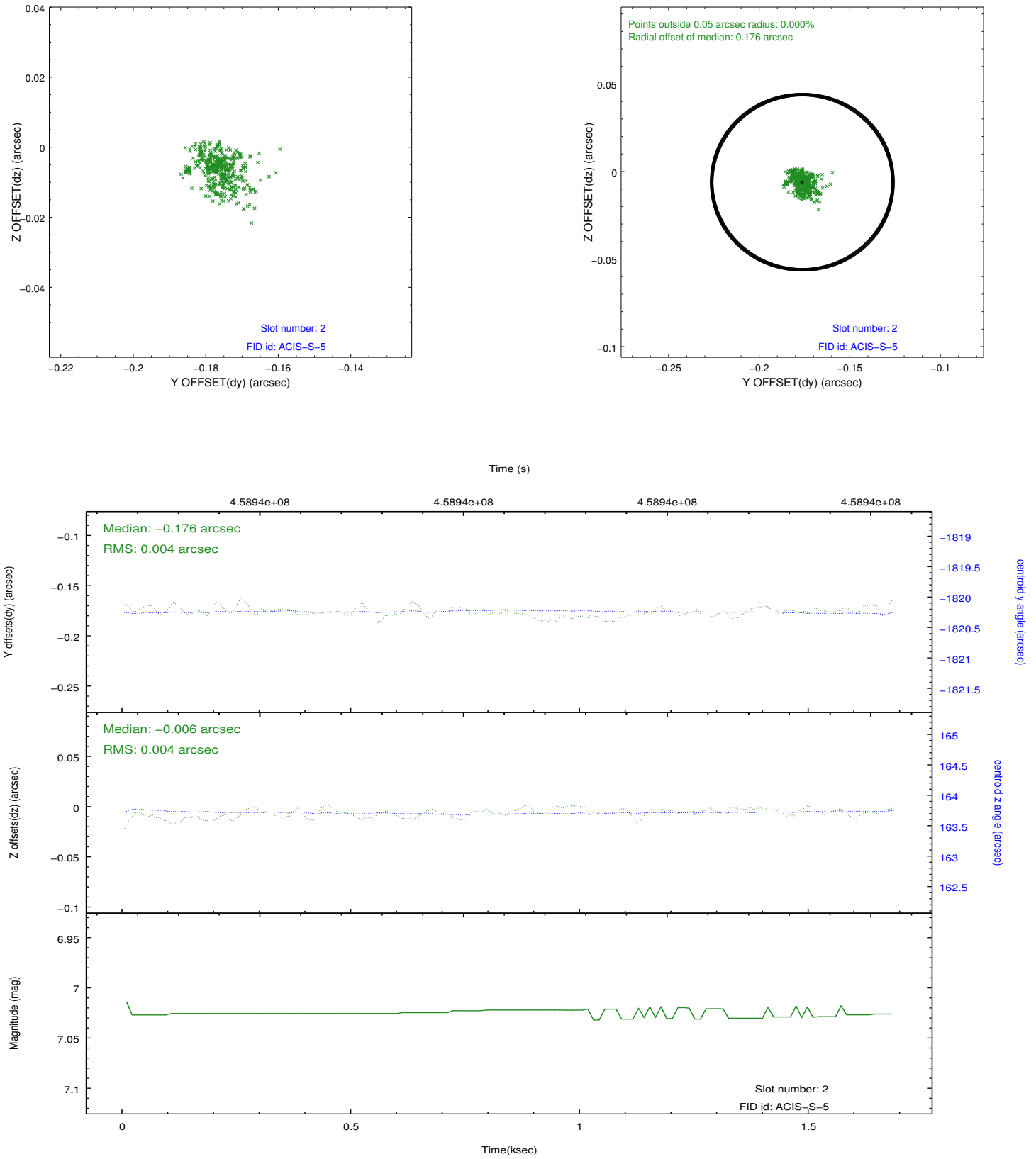
### 2.5.1 Slot 0



## 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	1.5810000121593

## A.2 Comments

The guide stars in slots 3 and 5 were removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of these guide stars from the solution.