

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4860 - L2 Version 3  
Chandra X-Ray Center

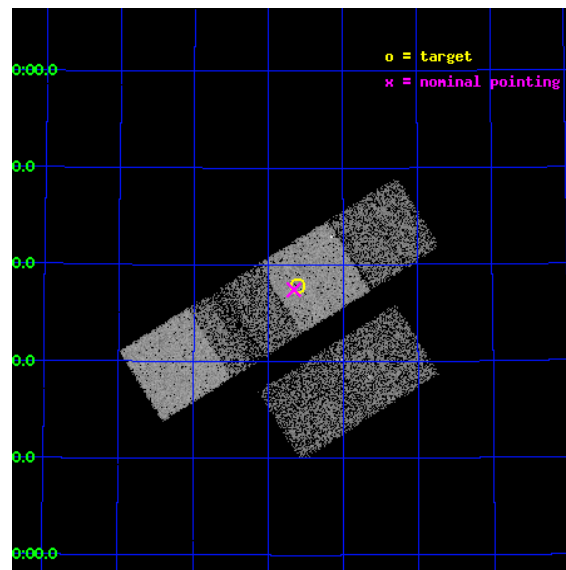
L2 Processing Date : Nov 7 2012

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# 1 Front

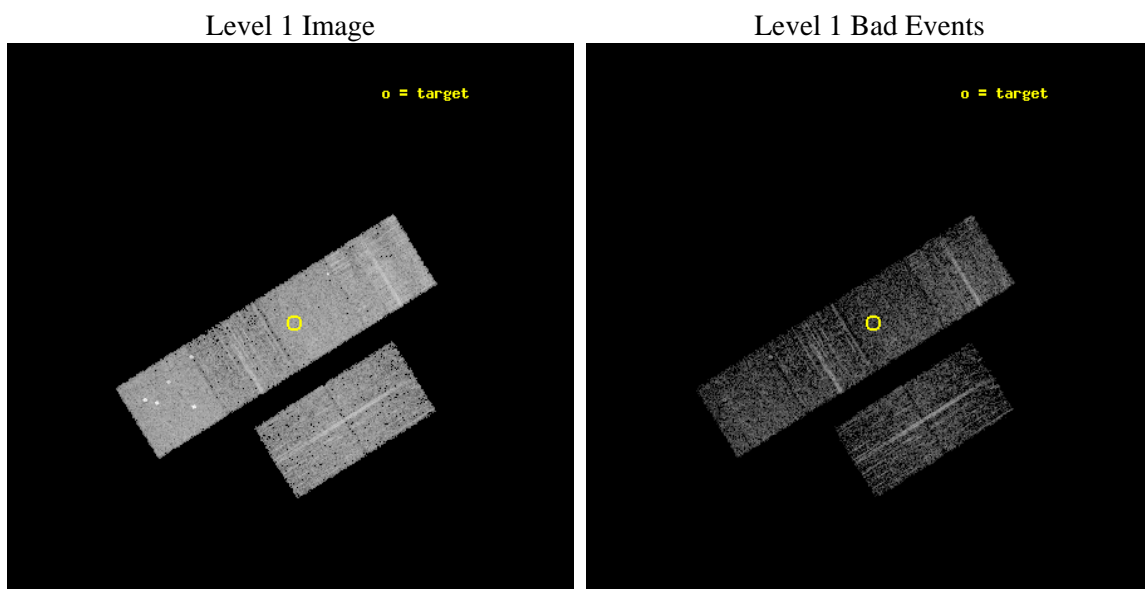
seq_num	700942	Sequence number
obs_id	4860	Observation id
title	X-ray Properties of Dust Reddened Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Dr. Gordon Richards	Principal investigator
object	SDSS J173836.15+583748.5	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.650833	Observer's specified target RA [deg]
dec_targ	58.630139	Observer's specified target Dec [deg]
ra_nom	264.66467228002	Nominal RA [deg]
dec_nom	58.623712292558	Nominal Dec [deg]
roll_nom	328.10300705061	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3923.0423136353	Sum of GTIs [s]
livetime	3873.3663896876	Livetime [s]
ontime2	3923.0833735466	Sum of GTIs [s]
ontime3	3922.9191936255	Sum of GTIs [s]
ontime5	3923.001273632	Sum of GTIs [s]
ontime6	3922.9602336287	Sum of GTIs [s]
ontime7	3923.0423136353	Sum of GTIs [s]
ontime8	3919.6370837092	Sum of GTIs [s]
l2events	45689	Number of level 2 events



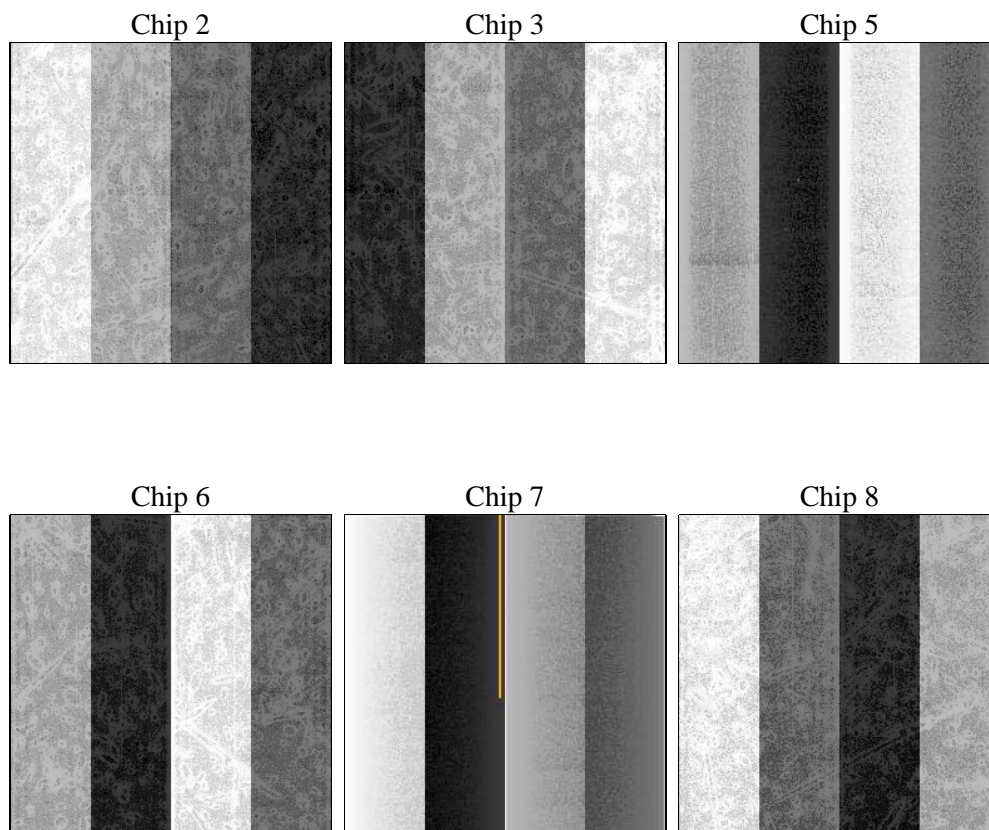
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4170.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3923.0423136353	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	3923.0833735466	Sum of GTIs [s]
date	2012-11-08T02:09:32	Date and time of file creation	ontime3	3922.9191936255	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3923.001273632	Sum of GTIs [s]
			ontime6	3922.9602336287	Sum of GTIs [s]
			ontime7	3923.0423136353	Sum of GTIs [s]
			ontime8	3919.6370837092	Sum of GTIs [s]
			l1events	175984	Number of level 1 events

### 2.1.4 Events

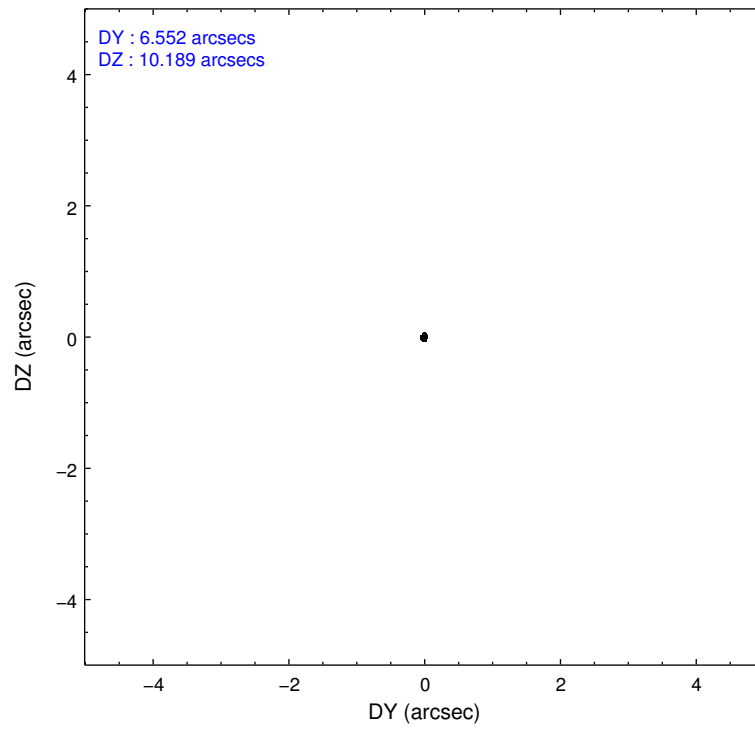
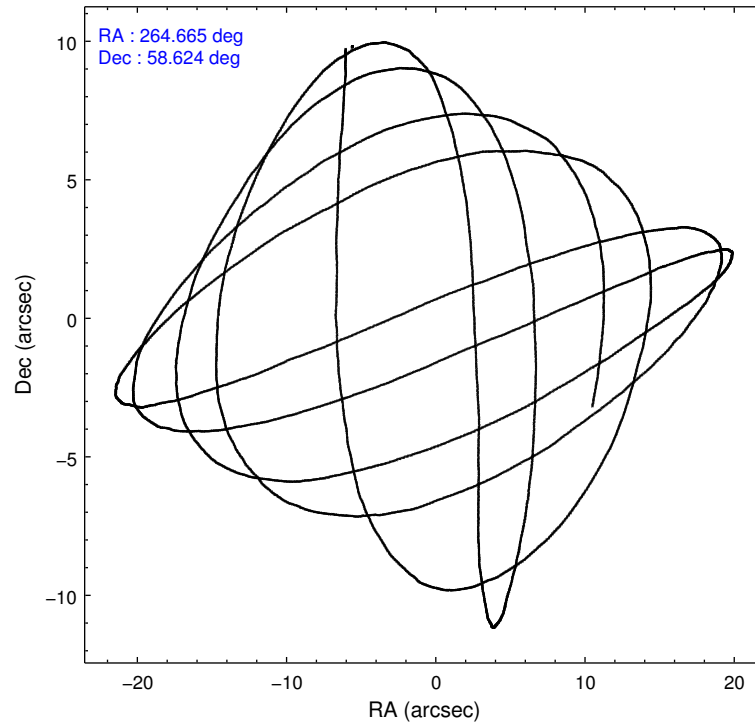
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	23625	21576	36717	23842	31116	39108	grade 0 events	2052	2038	3973	1919	1463	5694
rejected events	19207	16953	17647	19223	17030	24692		8%	9%	10%	8%	4%	14%
rejected %	81%	78%	48%	80%	54%	63%	grade 1 events	12	11	134	10	33	55
								0%	0%	0%	0%	0%	0%
							grade 2 events	964	1178	5232	1294	2848	2323
								4%	5%	14%	5%	9%	5%
							grade 3 events	261	244	868	282	1265	2032
								1%	1%	2%	1%	4%	5%
							grade 4 events	299	292	773	269	1159	1860
								1%	1%	2%	1%	3%	4%
							grade 5 events	819	822	2409	945	2783	1303
								3%	3%	6%	3%	8%	3%
							grade 6 events	848	884	8258	864	7381	2532
								3%	4%	22%	3%	23%	6%
							grade 7 events	18370	16107	15070	18259	14184	23309
								77%	74%	41%	76%	45%	59%

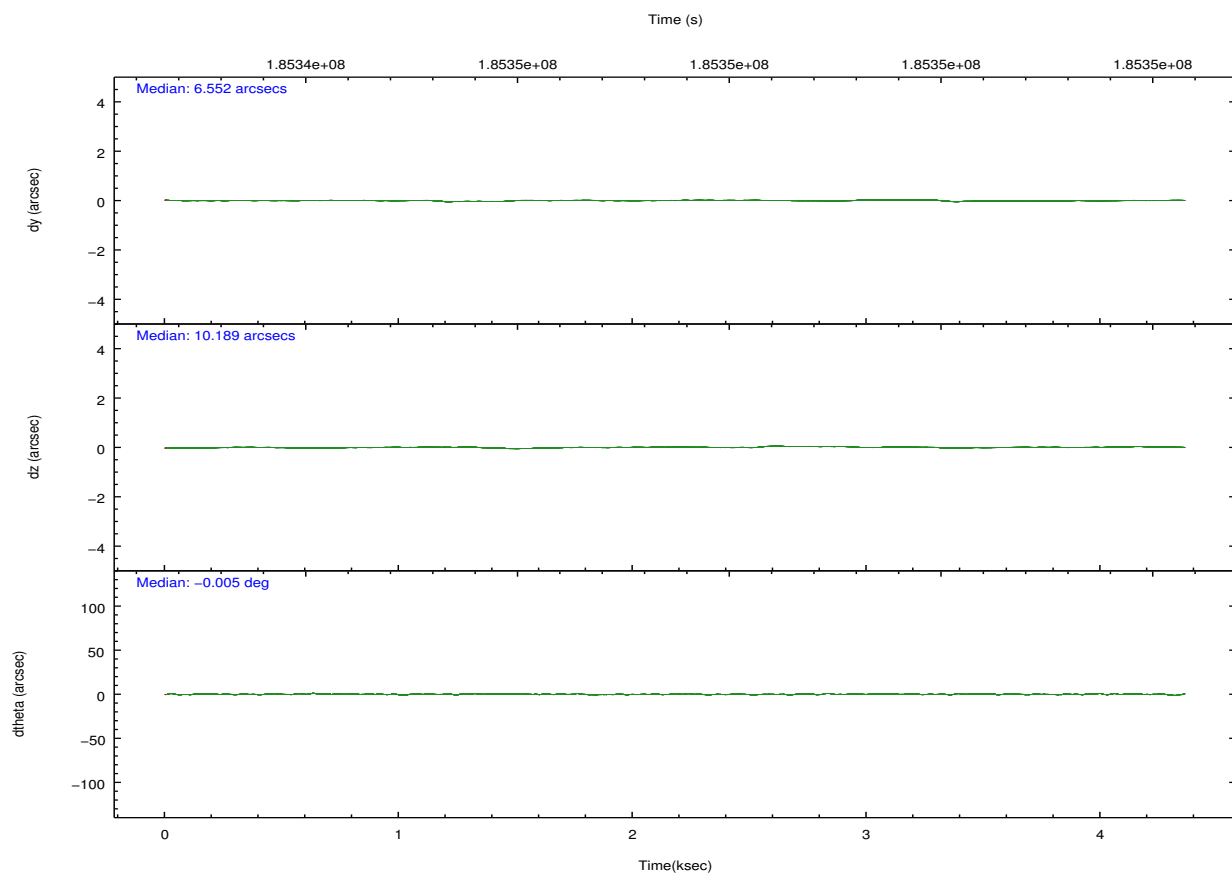
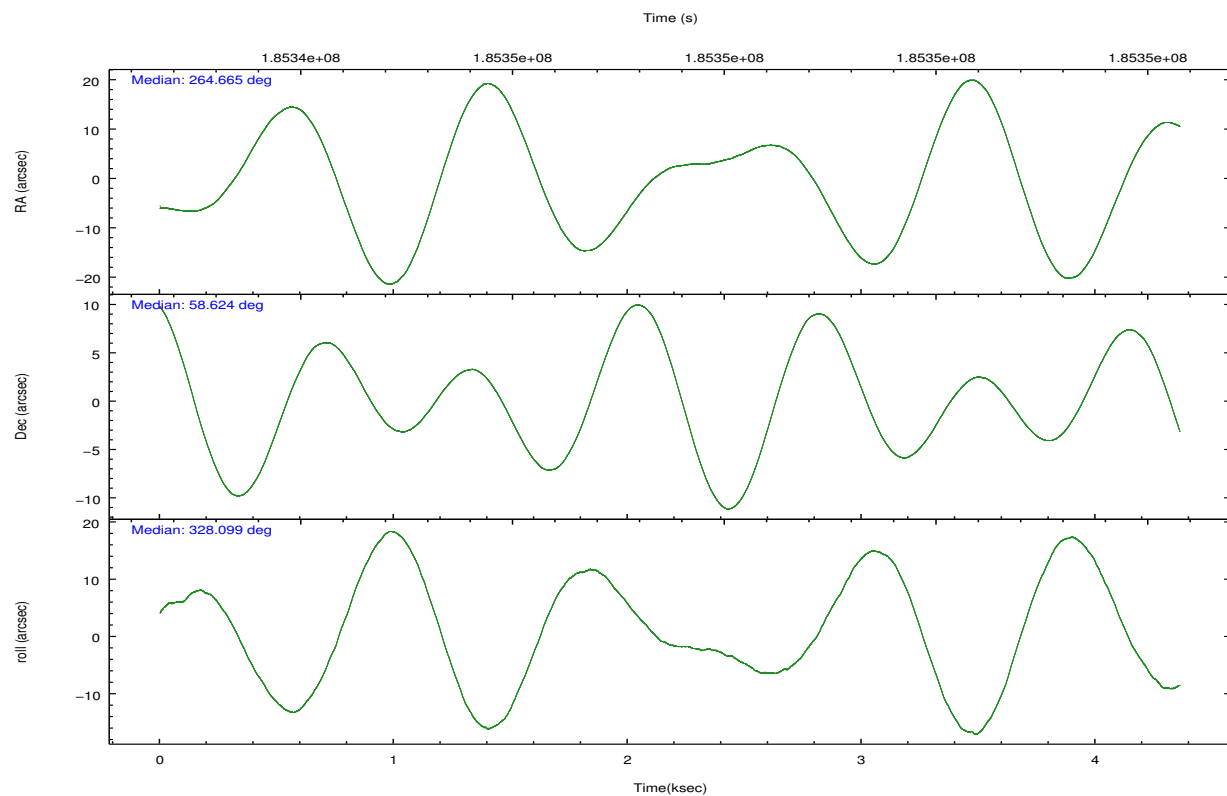


## 2.2 Compared Parameters

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	264.612342	264.6646722800177	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.624186	58.62371229255757	Alternating exposures requested	N	N
[deg] Pointing Roll	327.991067	328.1030070506088	[s] Primary exposure time	0.000000	3.2
[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)	185344754.184000	185344284.61367			
Observation start date	2003-11-16T04:38:10	2003-11-16T04:31:24			
[s] Observation end time (MET)	185348924.184000	185349170.78888			
Observation end date	2003-11-16T05:47:40	2003-11-16T05:52:50			
Read mode	TIMED	TIMED			

## 2.3 Aspect



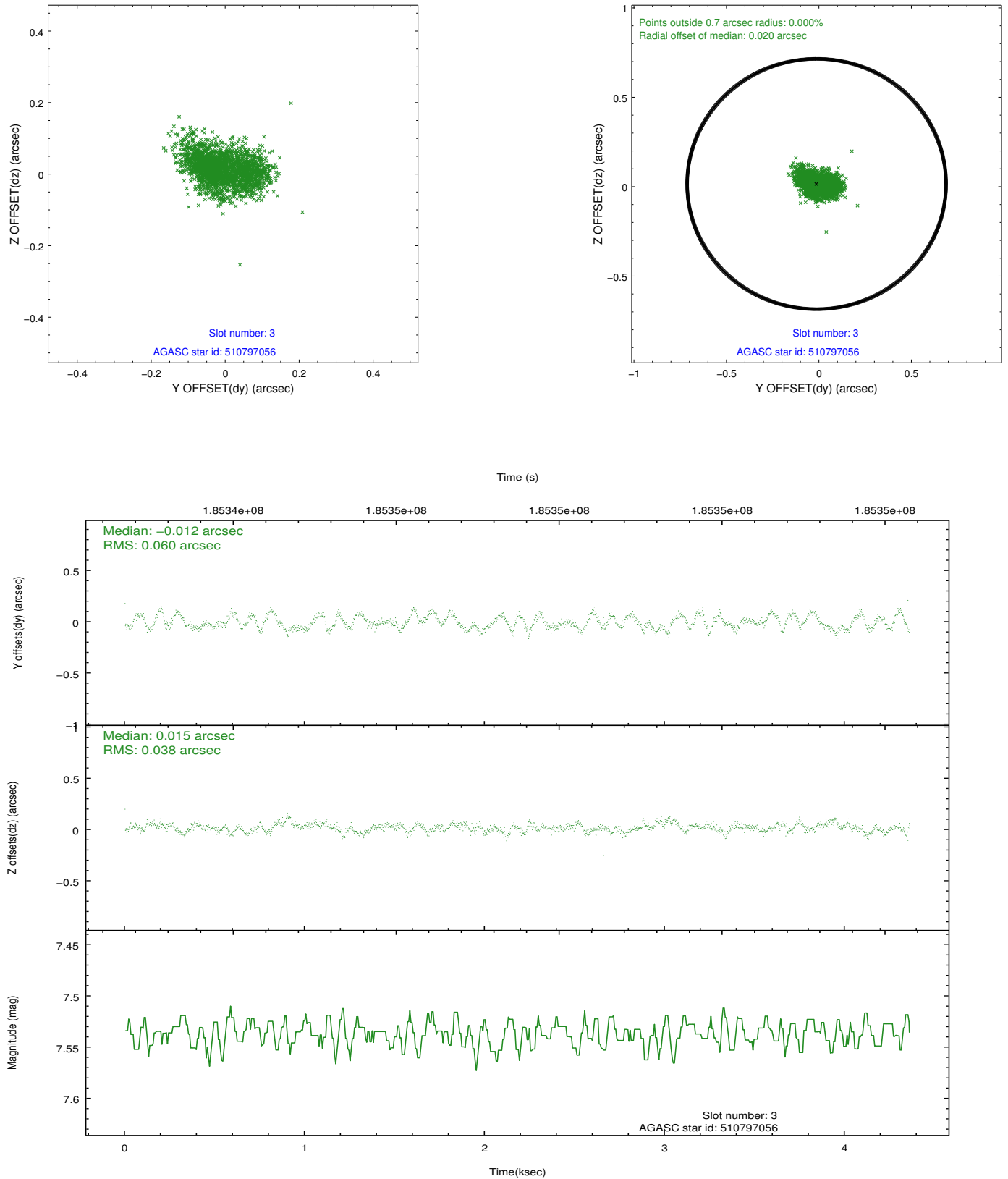


### Slot Statistics

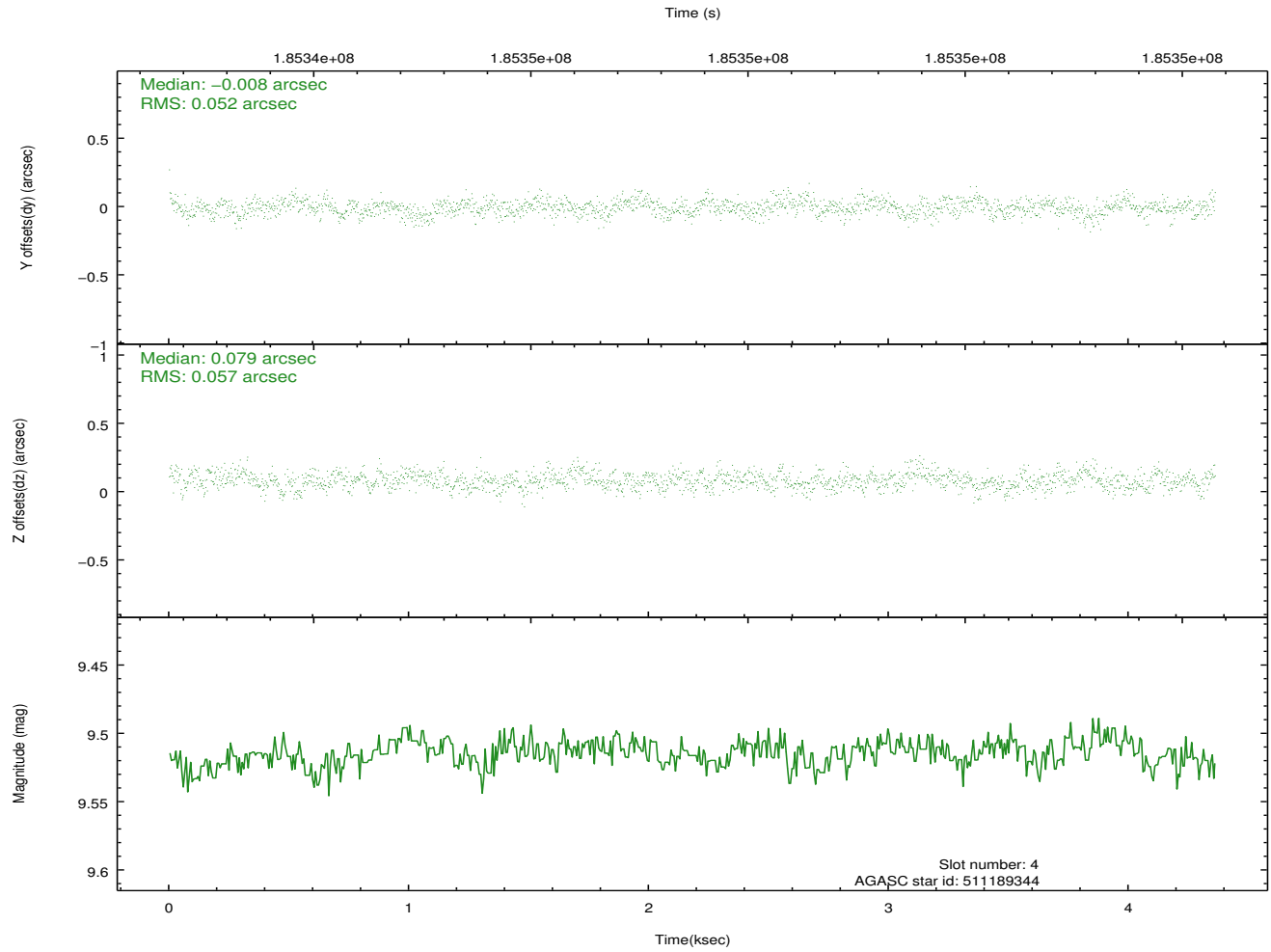
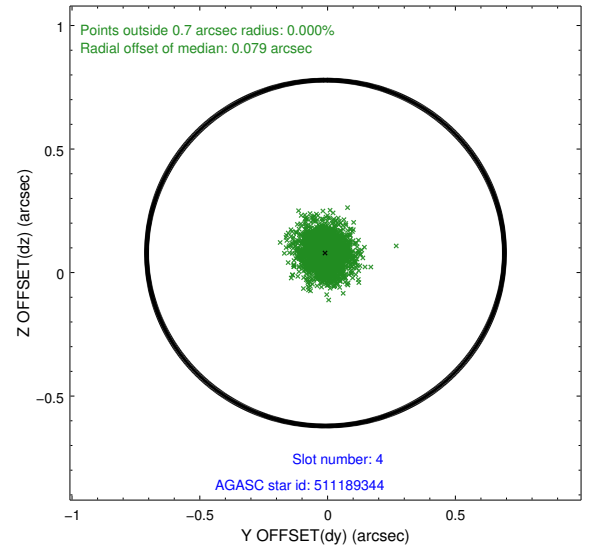
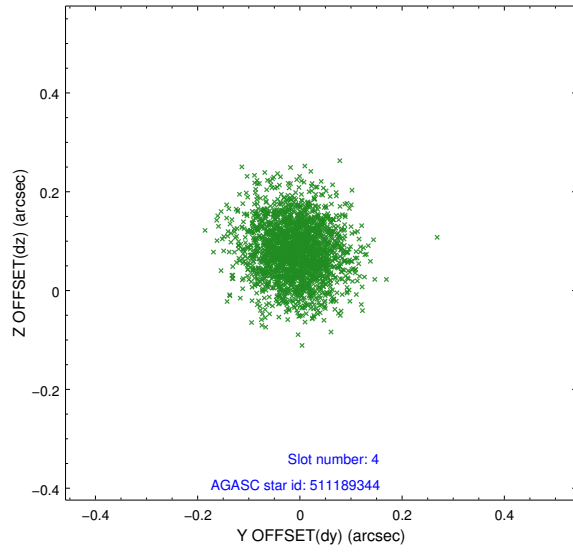
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1064	-0.059	-0.019	0.006	0.010	0.000000	0.000000	-759.32	-1731.47
1	FID	ACIS-S-4	7.20	1064	0.070	0.034	0.005	0.009	0.000000	0.000000	2153.41	175.65
2	FID	ACIS-S-5	7.23	1064	-0.042	-0.006	0.007	0.011	0.000000	0.000000	-1810.35	170.83
3	GUIDE	510797056	7.54	2128	-0.012	0.015	0.078	0.123	265.128475	57.857593	2299.65	-1812.69
4	GUIDE	511189344	9.52	2126	-0.008	0.079	0.082	0.136	263.131545	58.437038	-2023.68	-2025.01
5	GUIDE	511313408	8.34	2127	-0.032	-0.062	0.061	0.101	265.715436	58.685119	1624.52	1293.39
6	GUIDE	511314128	9.32	2128	0.081	0.029	0.075	0.120	263.451193	58.779394	-2142.08	-658.18
7	GUIDE	511315160	8.40	2127	-0.032	-0.063	0.079	0.136	264.176491	59.502240	-2353.10	2259.80

## 2.4 Star Slots

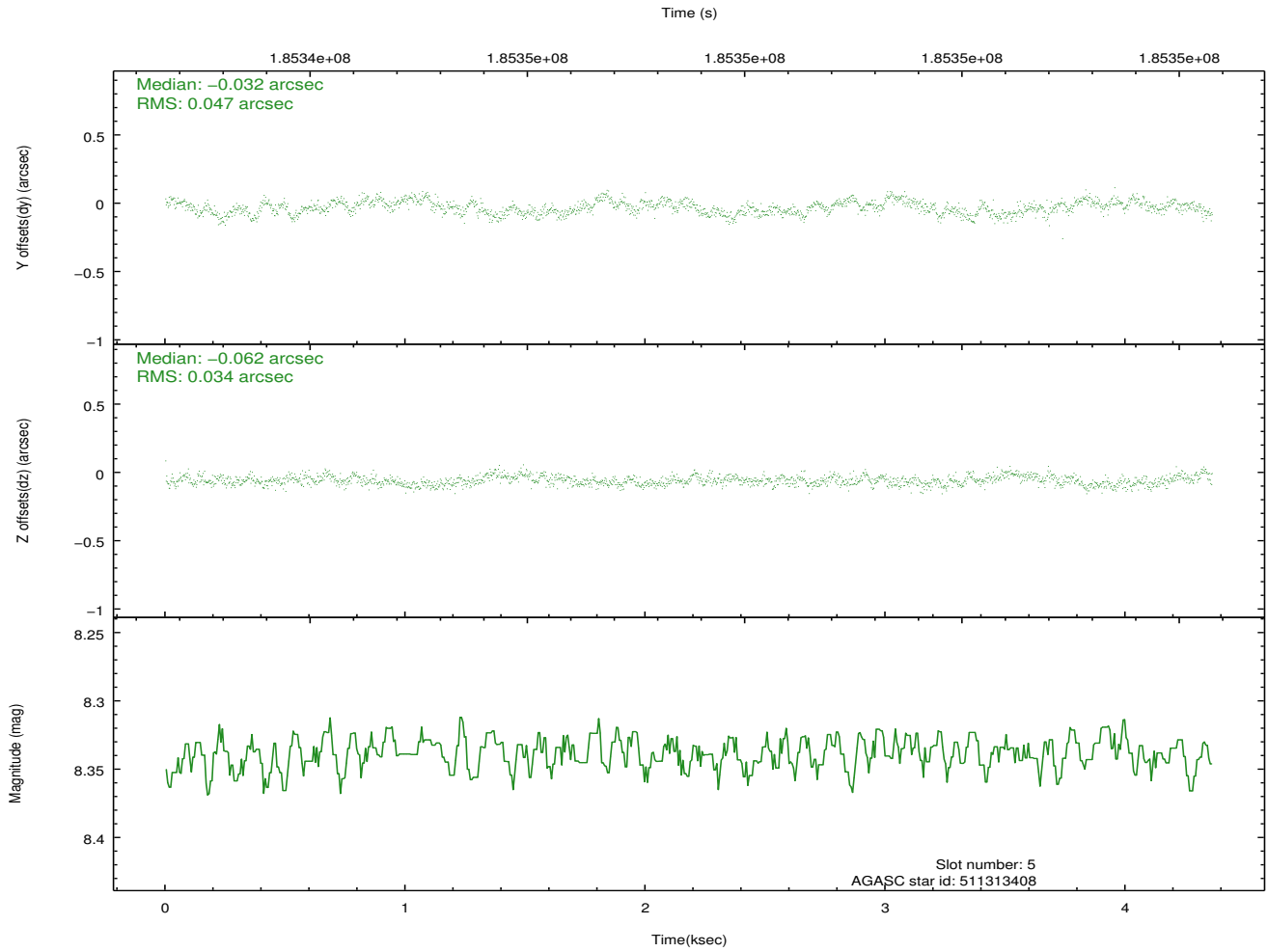
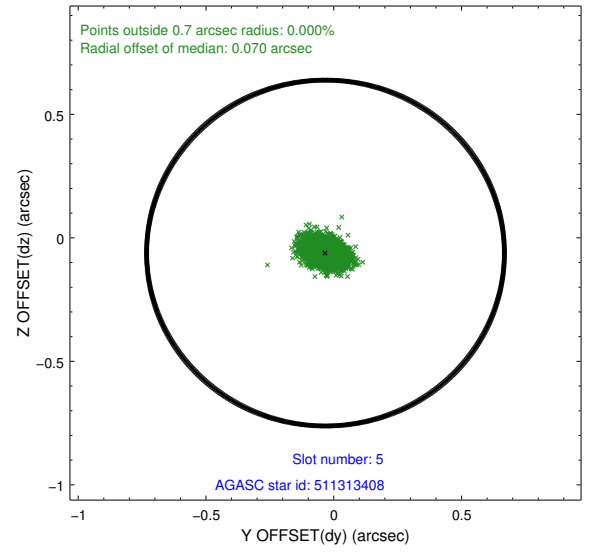
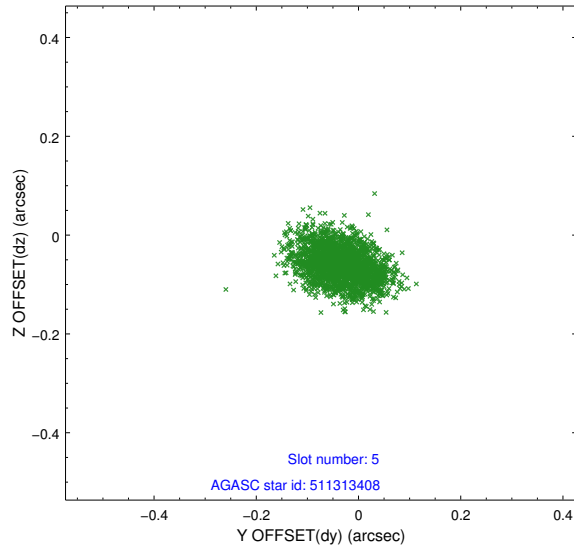
### 2.4.1 Slot 3



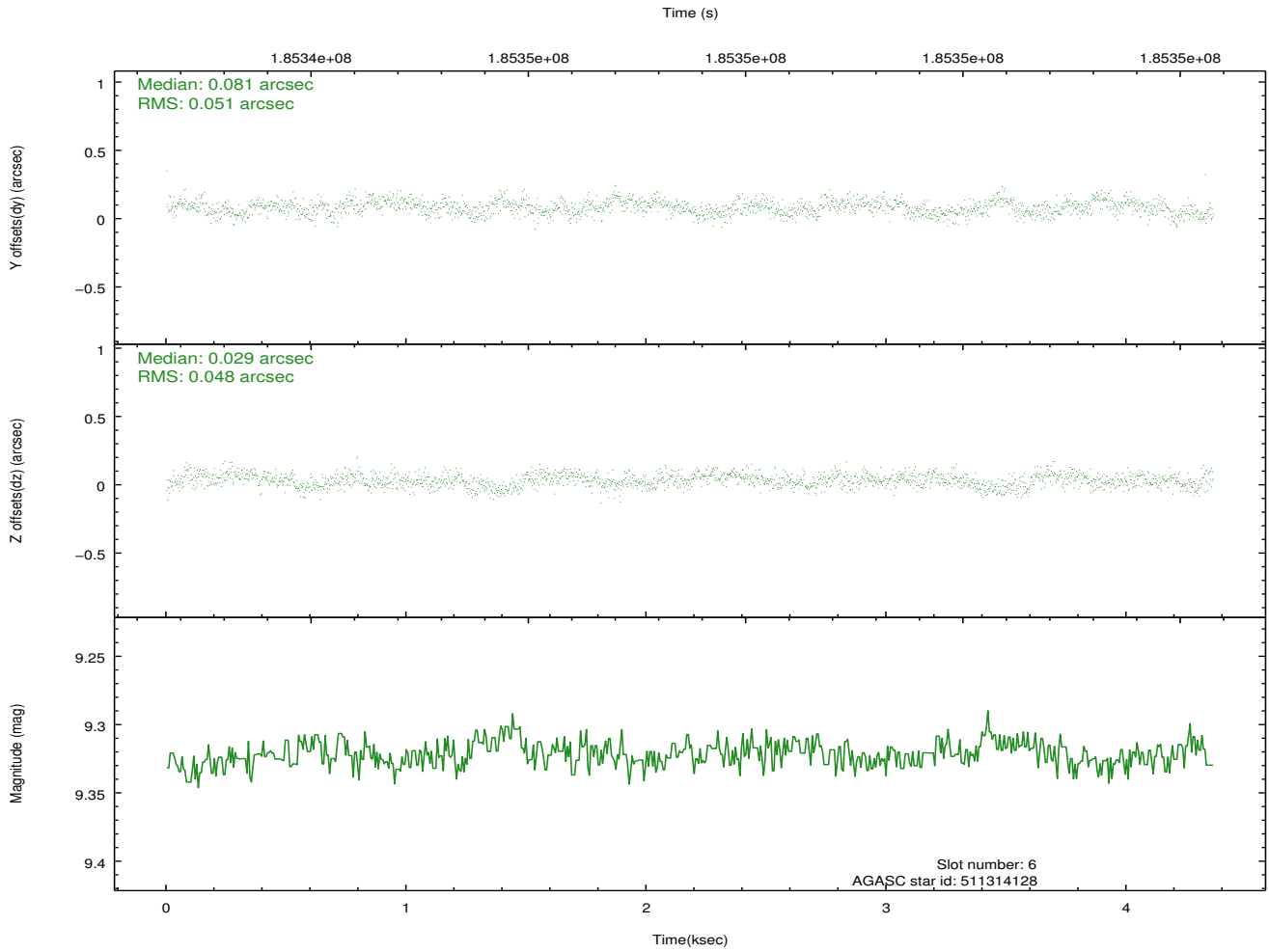
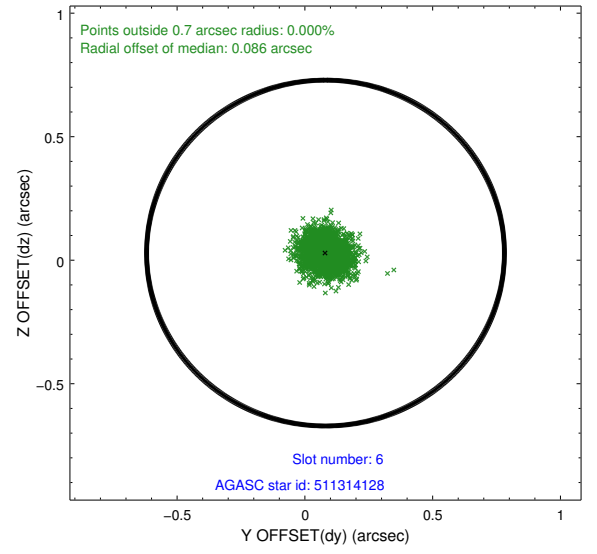
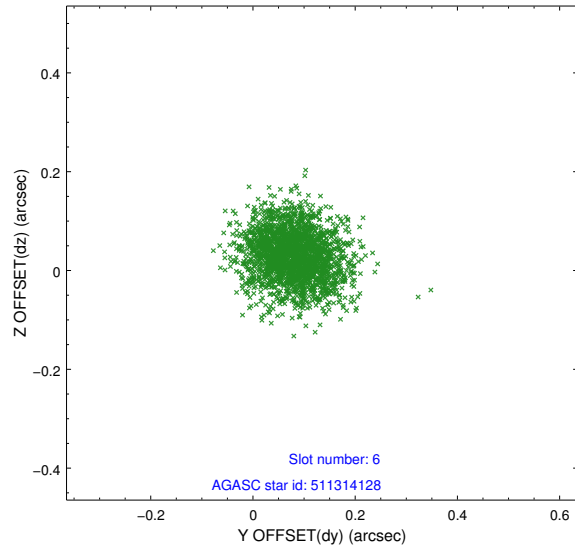
## 2.4.2 Slot 4



### 2.4.3 Slot 5

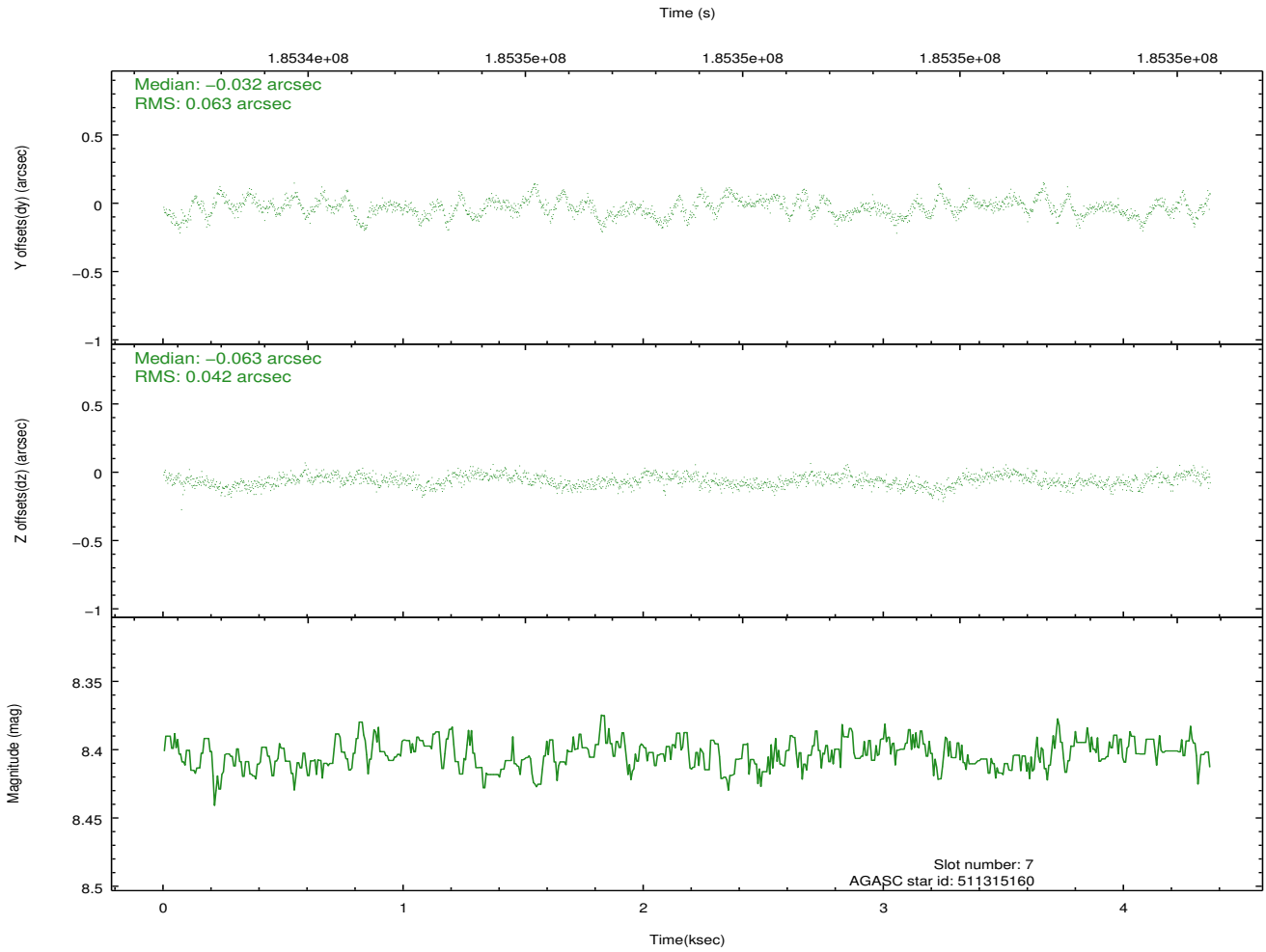
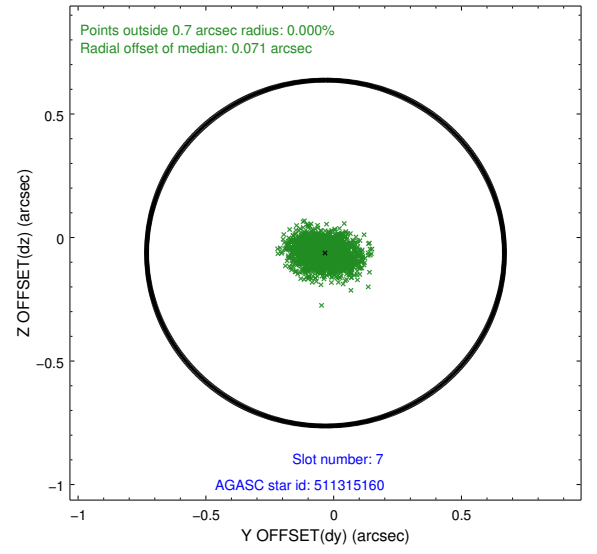
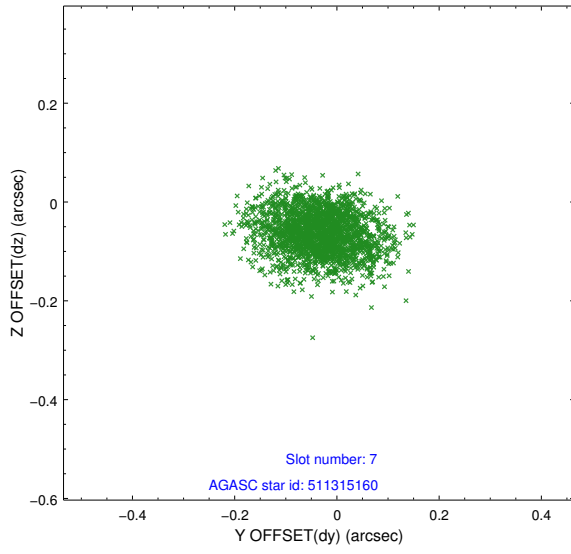


## 2.4.4 Slot 6



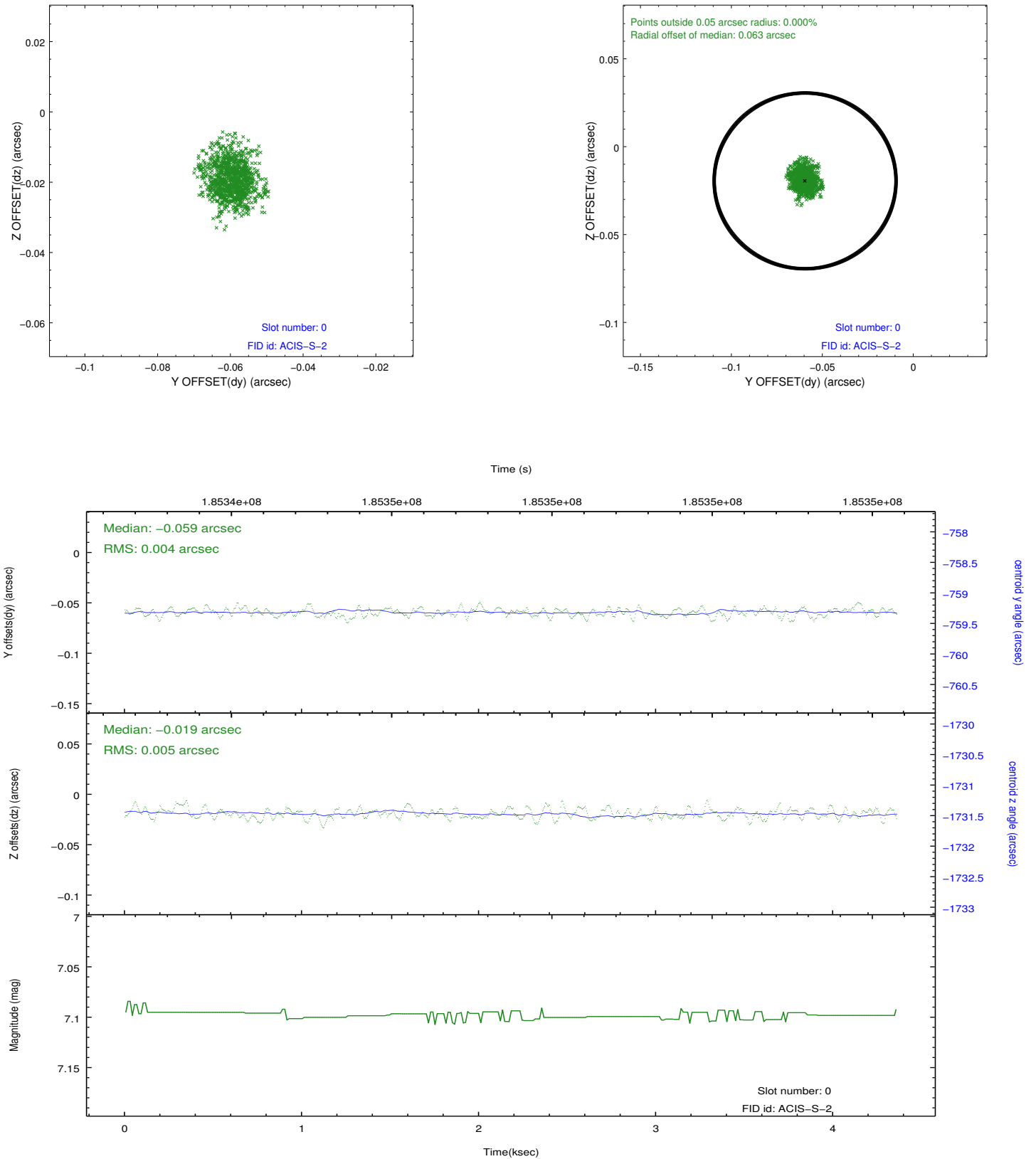


## 2.4.5 Slot 7

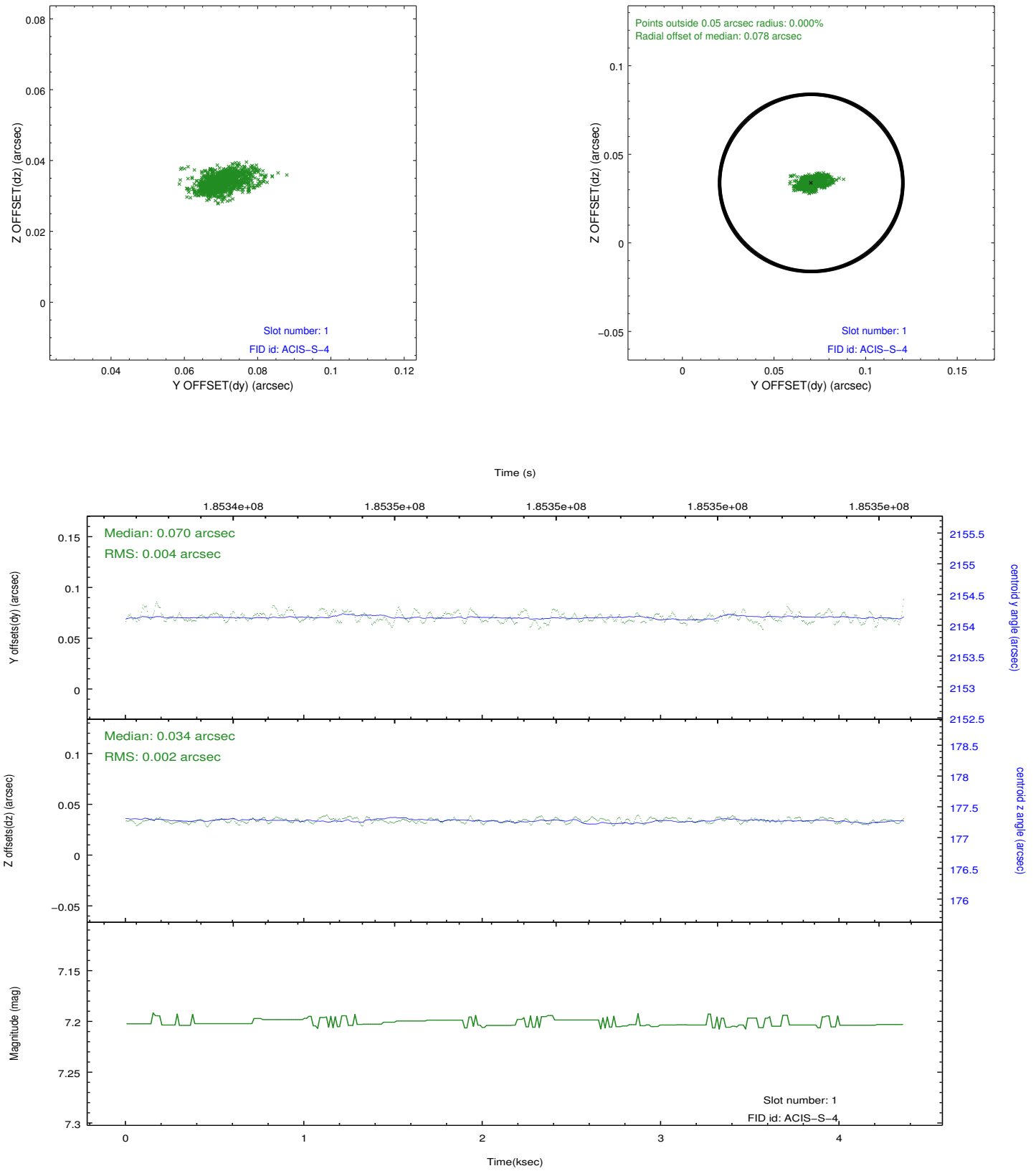


## 2.5 FID Slots

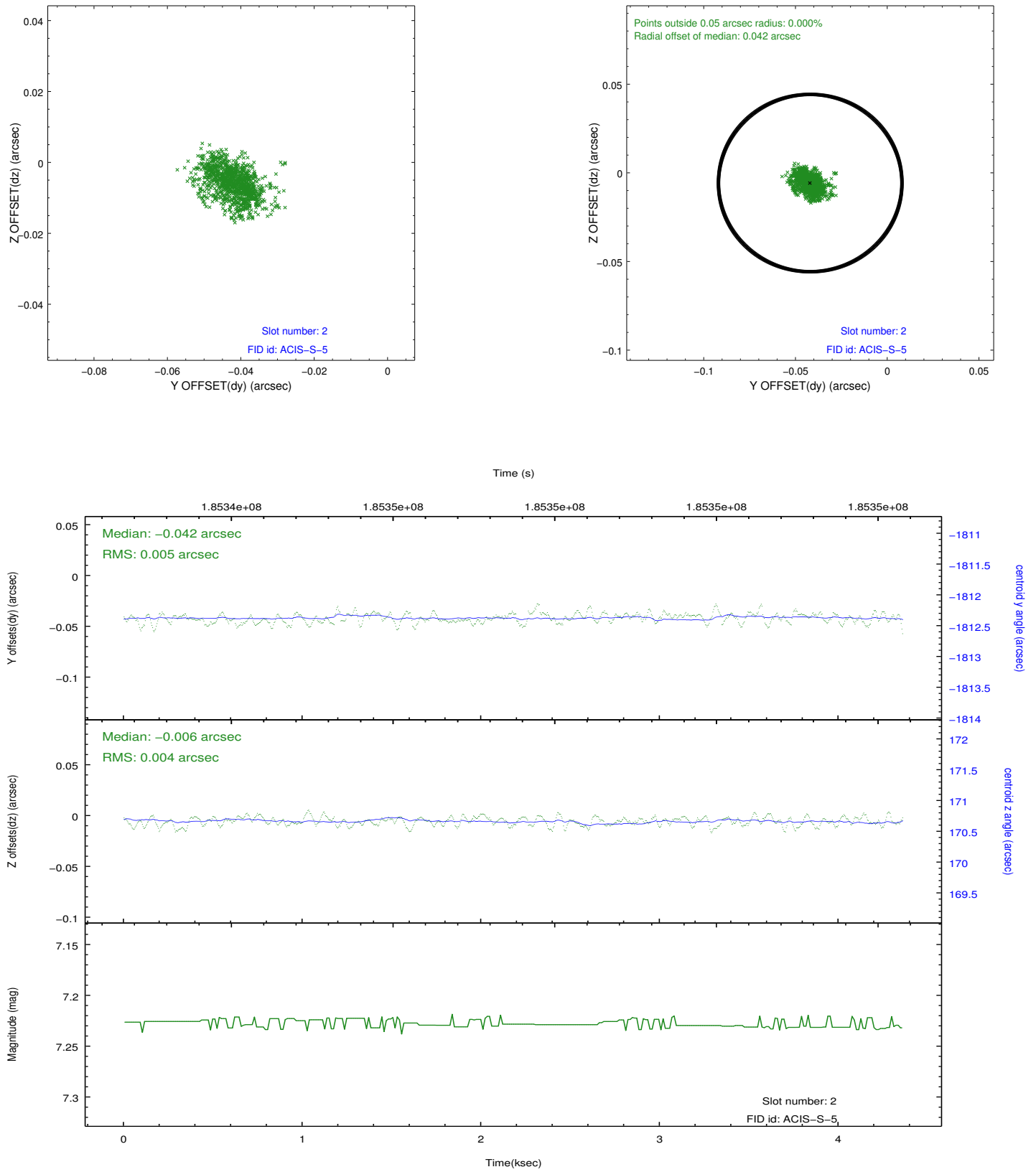
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.923

### A.2 Comments