

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4084 - L2 Version 4  
Chandra X-Ray Center

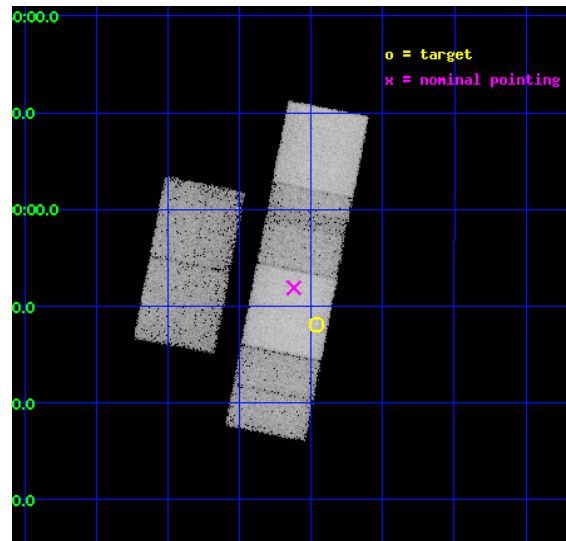
L2 Processing Date : Nov 2 2012

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# 1 Front

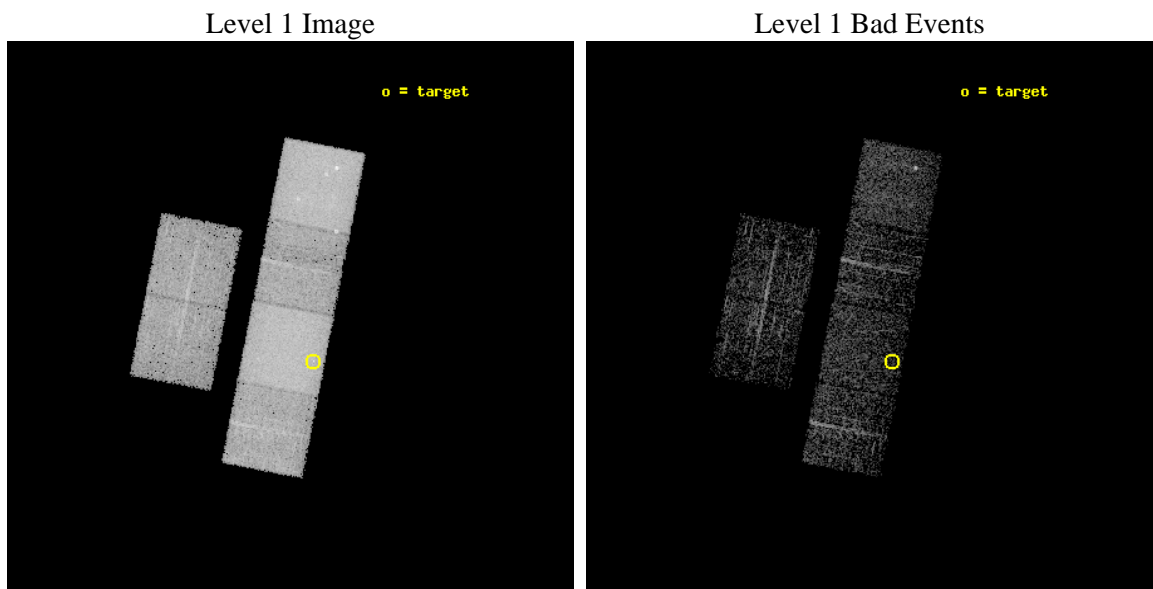
seq_num	700763	Sequence number
obs_id	4084	Observation id
title	ARE ALL NARROW-LINE SEYFERT 1S ULTRASOFT X-RAY SOURCES?	Proposal t
observer	Prof RICHARD POGGE	Principal investigator
object	SDSS J031427.47-011152.4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	48.614583	Observer's specified target RA [deg]
dec_targ	-1.197889	Observer's specified target Dec [deg]
ra_nom	48.655009018467	Nominal RA [deg]
dec_nom	-1.1350461387127	Nominal Dec [deg]
roll_nom	101.12544622833	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1932.7999927998	Sum of GTIs [s]
livetime	1908.3257154985	Livetime [s]
ontime2	1932.7999927998	Sum of GTIs [s]
ontime3	1932.7999927998	Sum of GTIs [s]
ontime5	1932.7999927998	Sum of GTIs [s]
ontime6	1932.7999927998	Sum of GTIs [s]
ontime7	1932.7999927998	Sum of GTIs [s]
ontime8	1932.7999927998	Sum of GTIs [s]
l2events	144630	Number of level 2 events



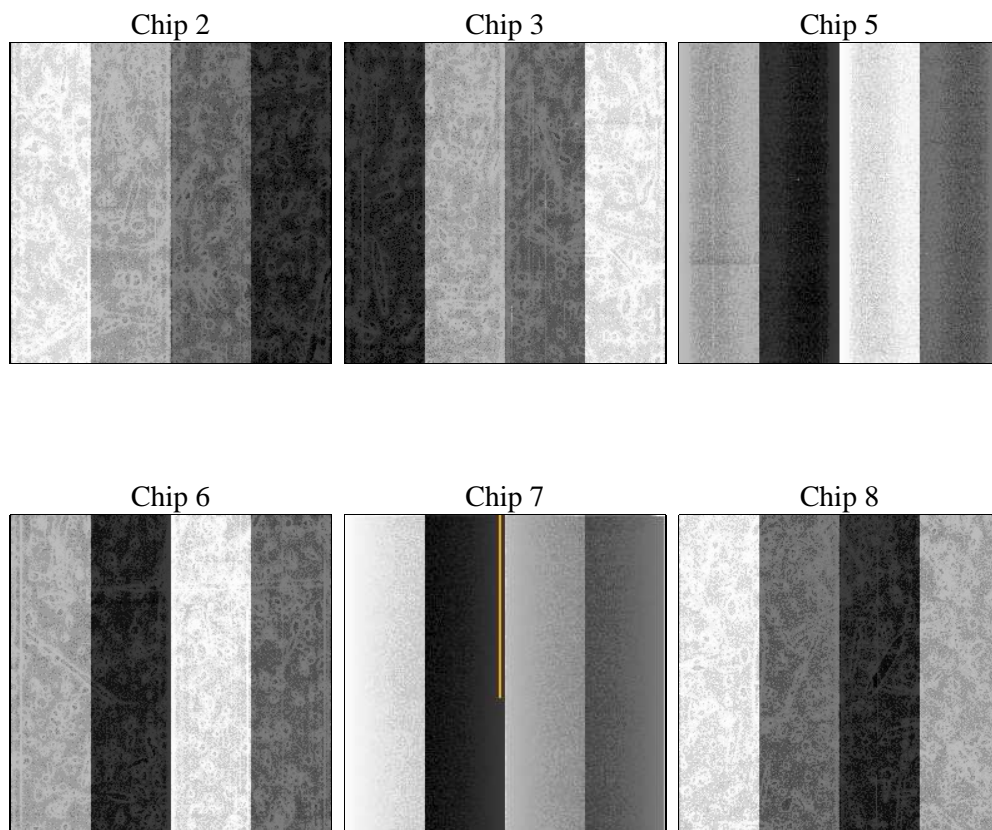
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1932.7999927998	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	1932.7999927998	Sum of GTIs [s]
date	2012-11-02T18:52:54	Date and time of file creation	ontime3	1932.7999927998	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	1932.7999927998	Sum of GTIs [s]
			ontime6	1932.7999927998	Sum of GTIs [s]
			ontime7	1932.7999927998	Sum of GTIs [s]
			ontime8	1932.7999927998	Sum of GTIs [s]
			l1events	277359	Number of level 1 events

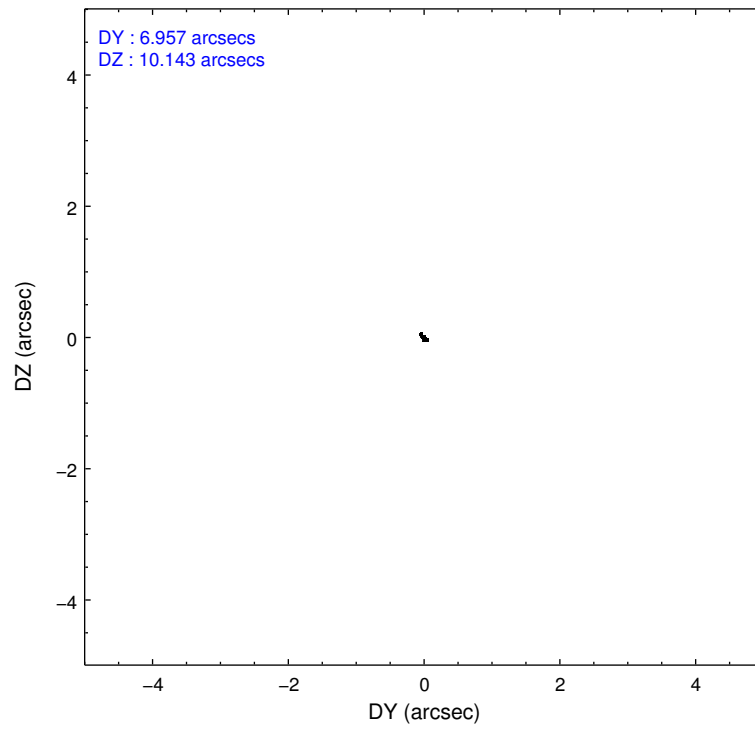
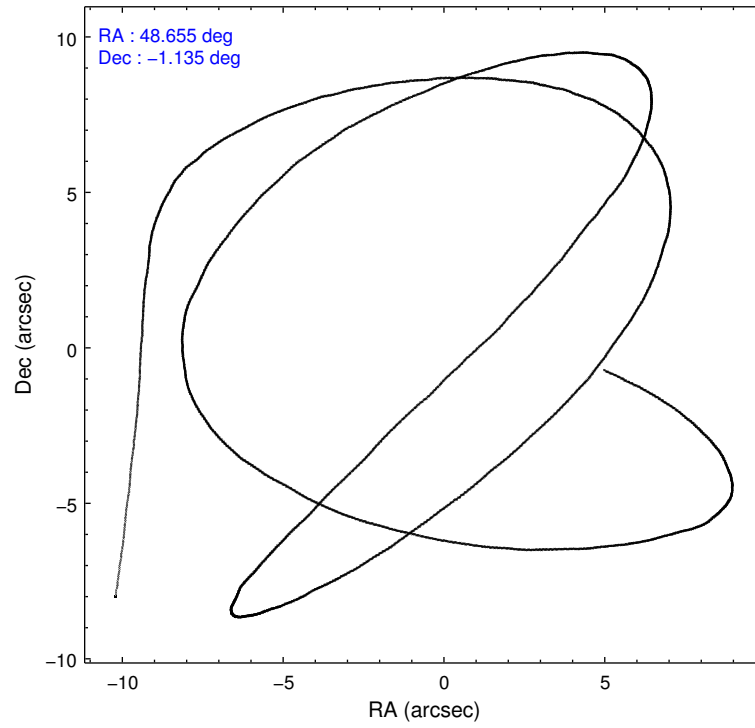
### 2.1.4 Events

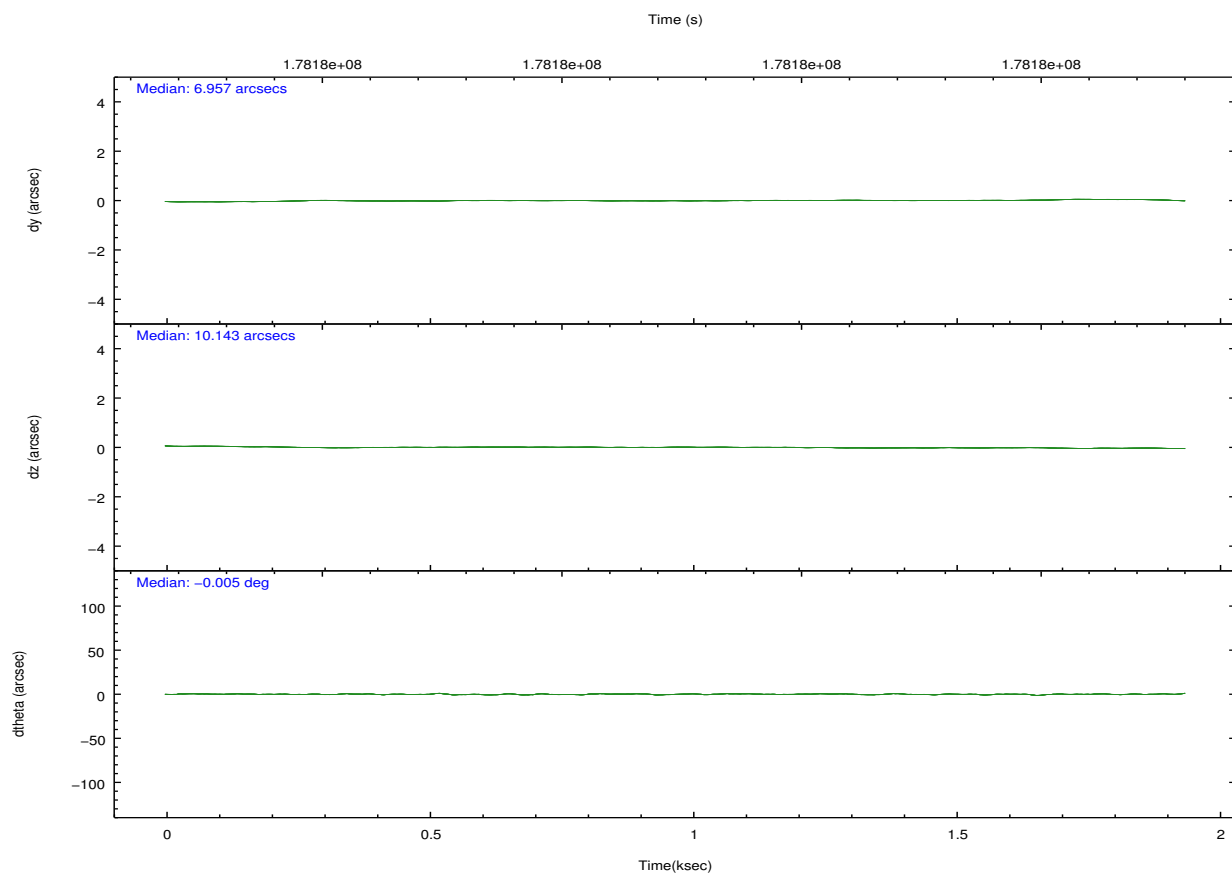
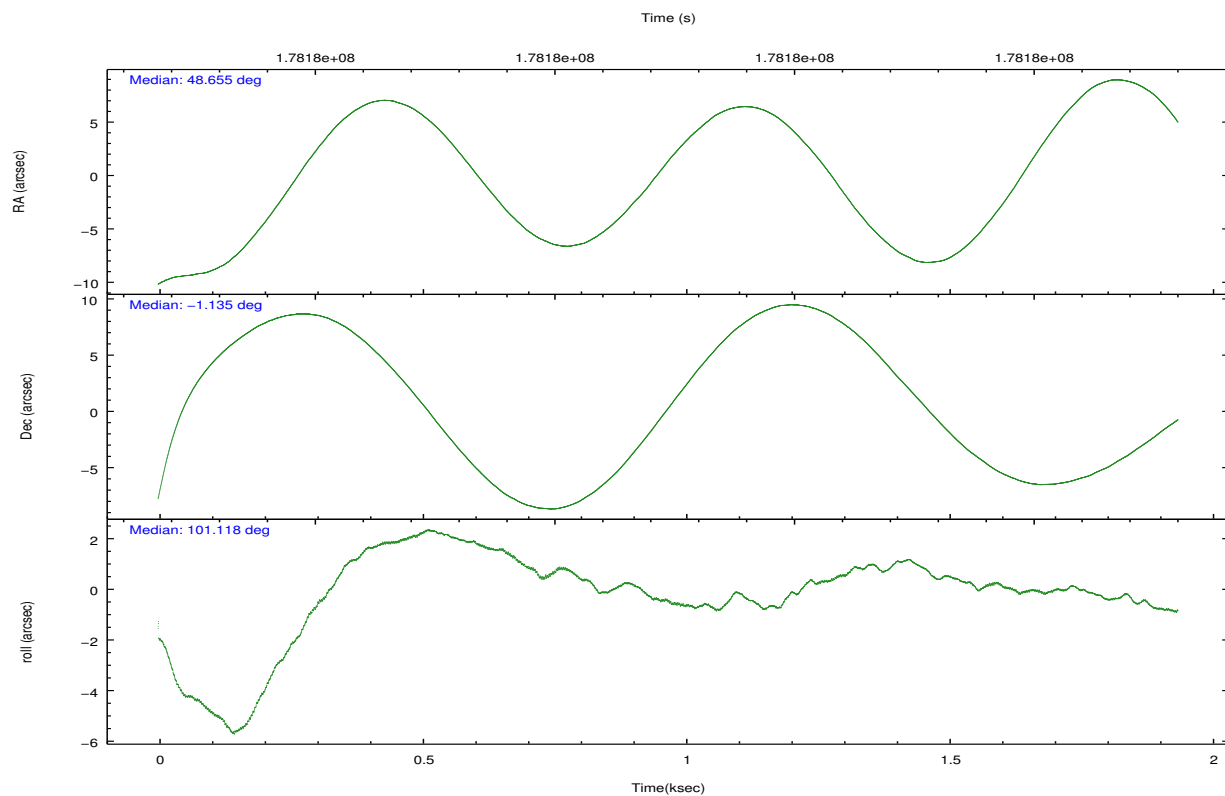
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	32725	32335	66962	36743	65749	42845	grade 0 events	12148	12116	6914	14446	4797	16569
rejected events	18067	17556	26196	18379	22377	21561		37%	37%	10%	39%	7%	38%
rejected %	55%	54%	39%	50%	34%	50%	grade 1 events	53	58	422	52	32	70
								0%	0%	0%	0%	0%	0%
							grade 2 events	2135	2308	13562	3306	8087	3720
								6%	7%	20%	8%	12%	8%
							grade 3 events	617	672	2407	636	3478	1129
								1%	2%	3%	1%	5%	2%
							grade 4 events	637	642	2455	703	3339	1074
								1%	1%	3%	1%	5%	2%
							grade 5 events	710	813	2594	849	2551	1028
								2%	2%	3%	2%	3%	2%
							grade 6 events	1162	1142	22224	1386	29631	2179
								3%	3%	33%	3%	45%	5%
							grade 7 events	15263	14584	16384	15365	13834	17076
								46%	45%	24%	41%	21%	39%

## 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	48.673228	48.65500901846656	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.155286	-1.135046138712655	Alternating exposures requested	N	N
[deg] Pointing Roll	100.969161	101.1254462283294	[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)	178180901.184000	178179369.79308			
Observation start date	2003-08-25T06:40:37	2003-08-25T06:16:09			
[s] Observation end time (MET)	178182701.184000	178183329.88075			
Observation end date	2003-08-25T07:10:37	2003-08-25T07:22:09			
Read mode	TIMED	TIMED			

## 2.3 Aspect





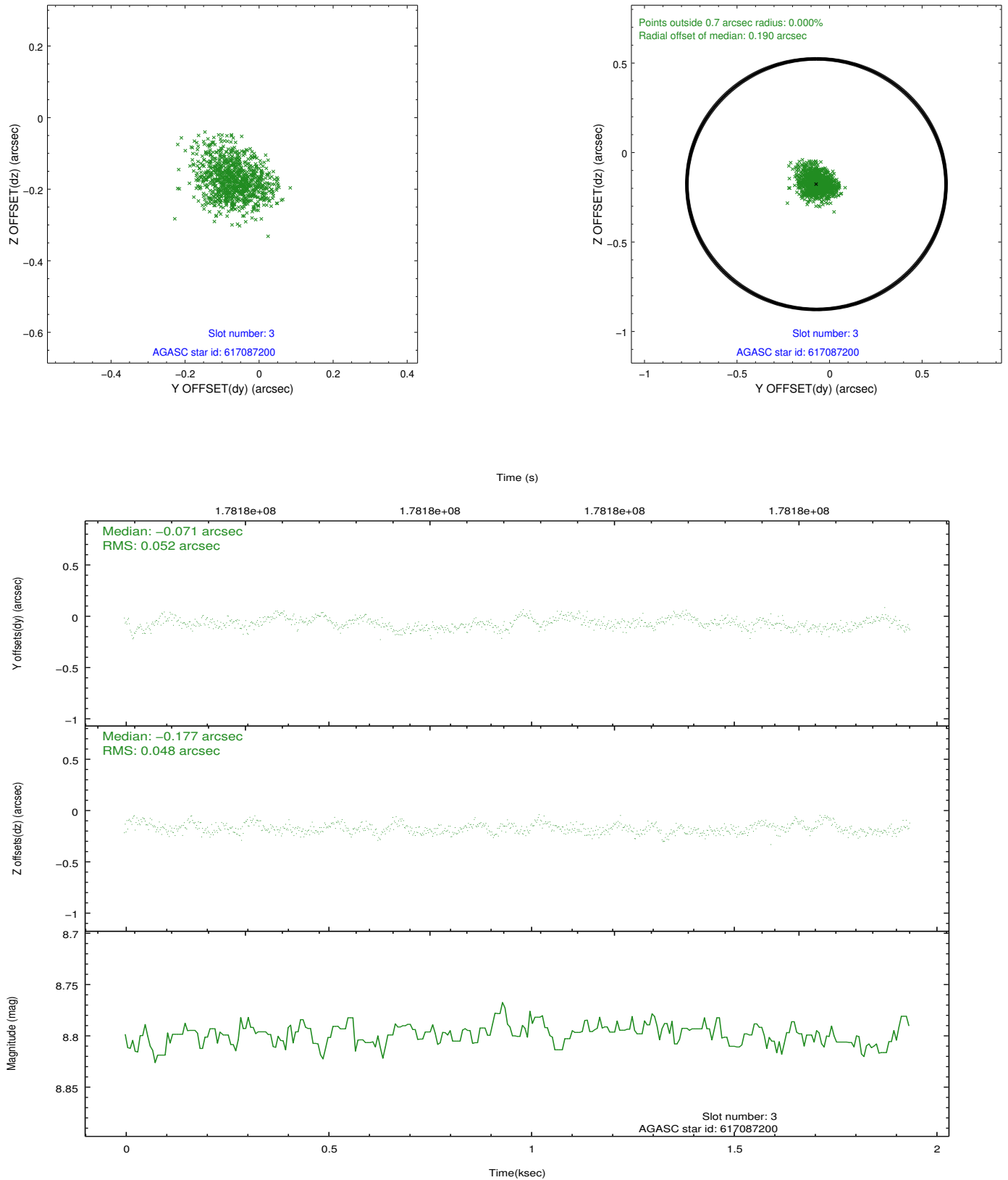
### Slot Statistics

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	473	-0.053	-0.023	0.006	0.011	0.000000	0.000000	-759.73	-1731.43
1	FID	ACIS-S-4	7.20	473	0.077	0.032	0.005	0.010	0.000000	0.000000	2152.11	173.66
2	FID	ACIS-S-5	7.23	473	-0.055	0.000	0.006	0.010	0.000000	0.000000	-1808.25	171.08
3	GUIDE	617087200	8.80	945	-0.071	-0.177	0.076	0.121	48.106660	-0.848658	1471.68	1792.12
4	GUIDE	617089408	8.71	945	0.280	0.019	0.073	0.122	48.843838	-1.178642	-197.36	-585.87
5	GUIDE	617090272	9.50	946	-0.022	0.089	0.108	0.165	48.941458	-1.014608	313.74	-1044.82
6	GUIDE	617092512	8.45	946	-0.224	0.223	0.080	0.132	48.882589	-0.479288	2246.38	-1203.76
7	GUIDE	617093280	9.19	945	0.034	-0.153	0.077	0.122	48.284246	-0.814483	1473.47	1139.79

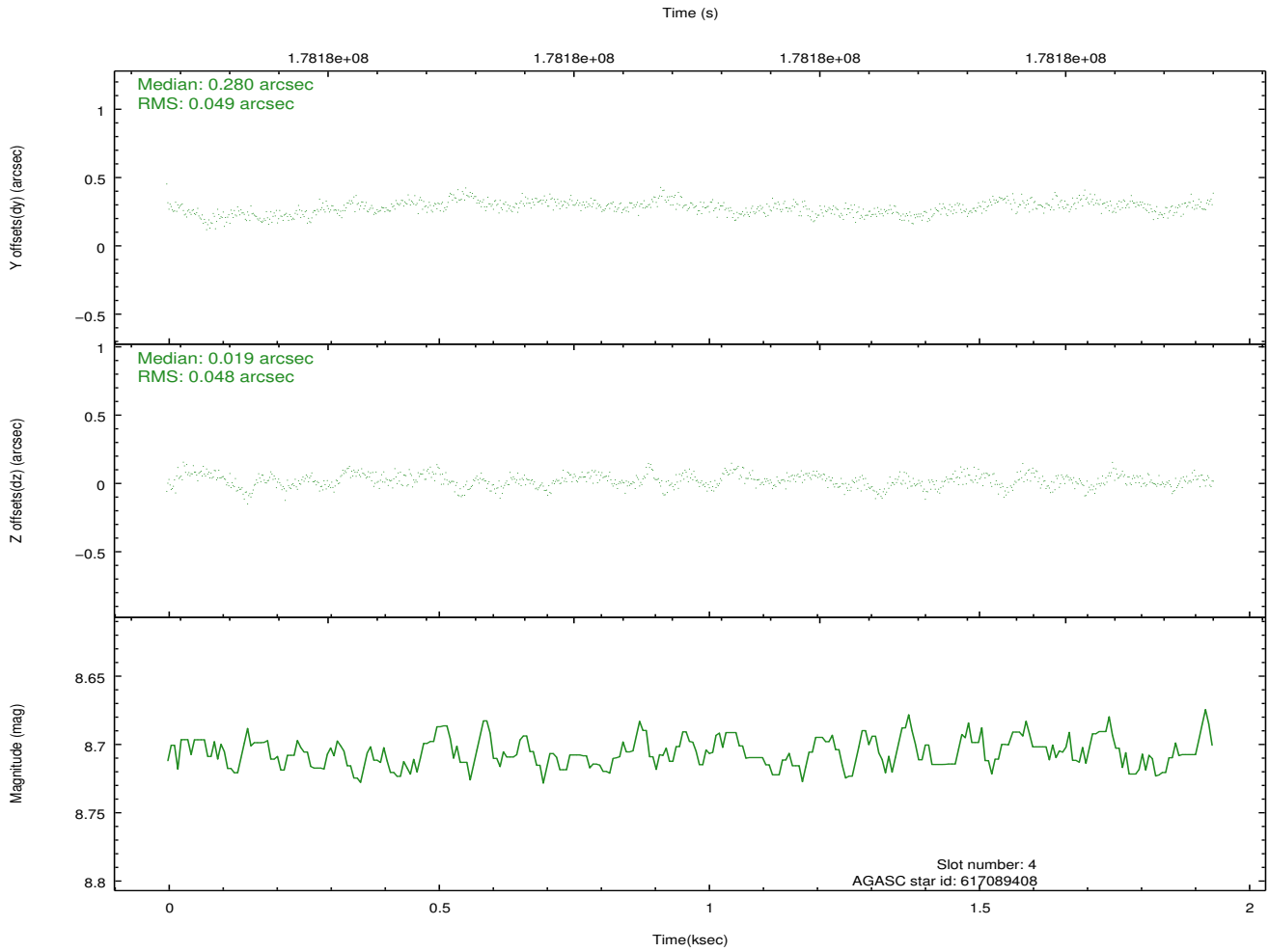
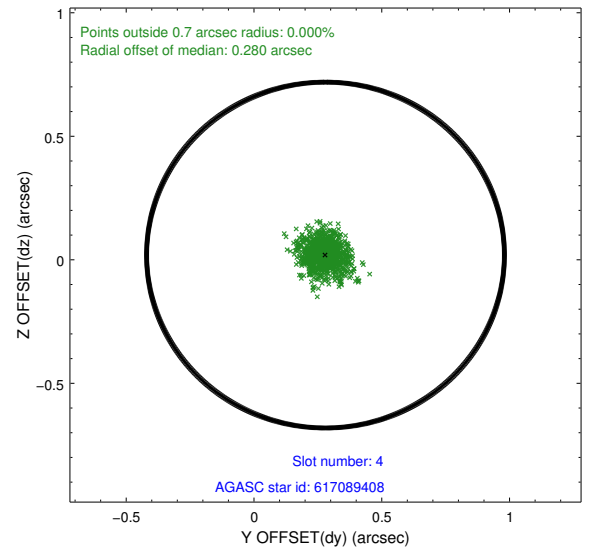
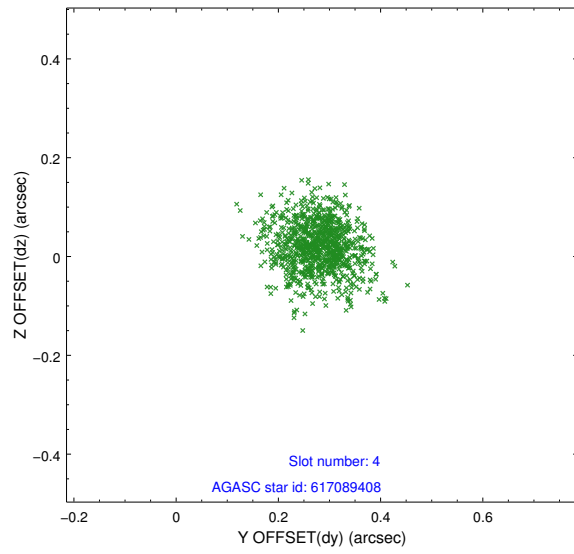


## 2.4 Star Slots

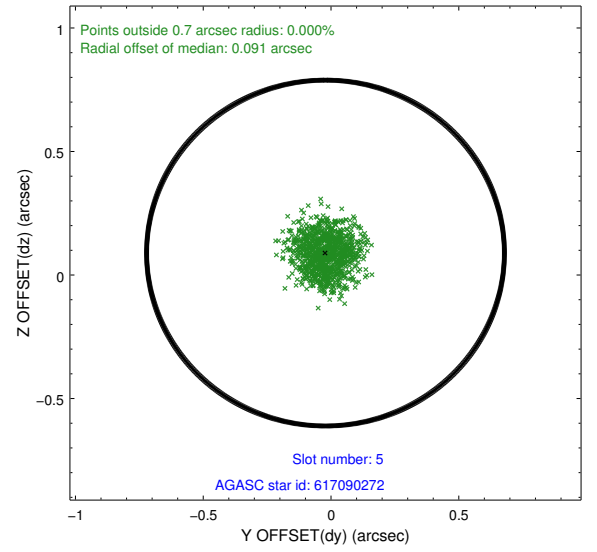
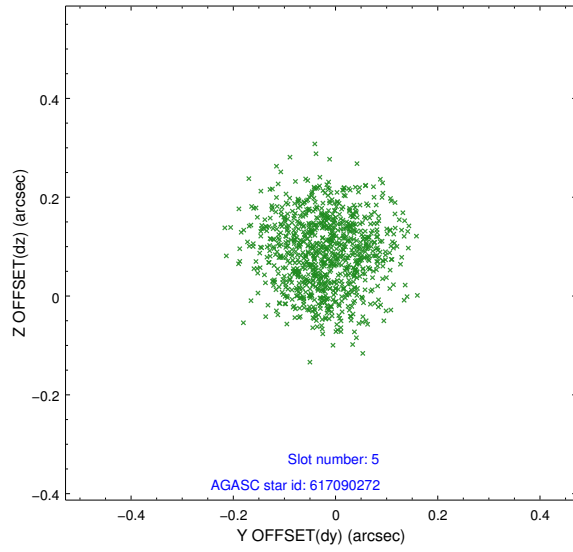
### 2.4.1 Slot 3



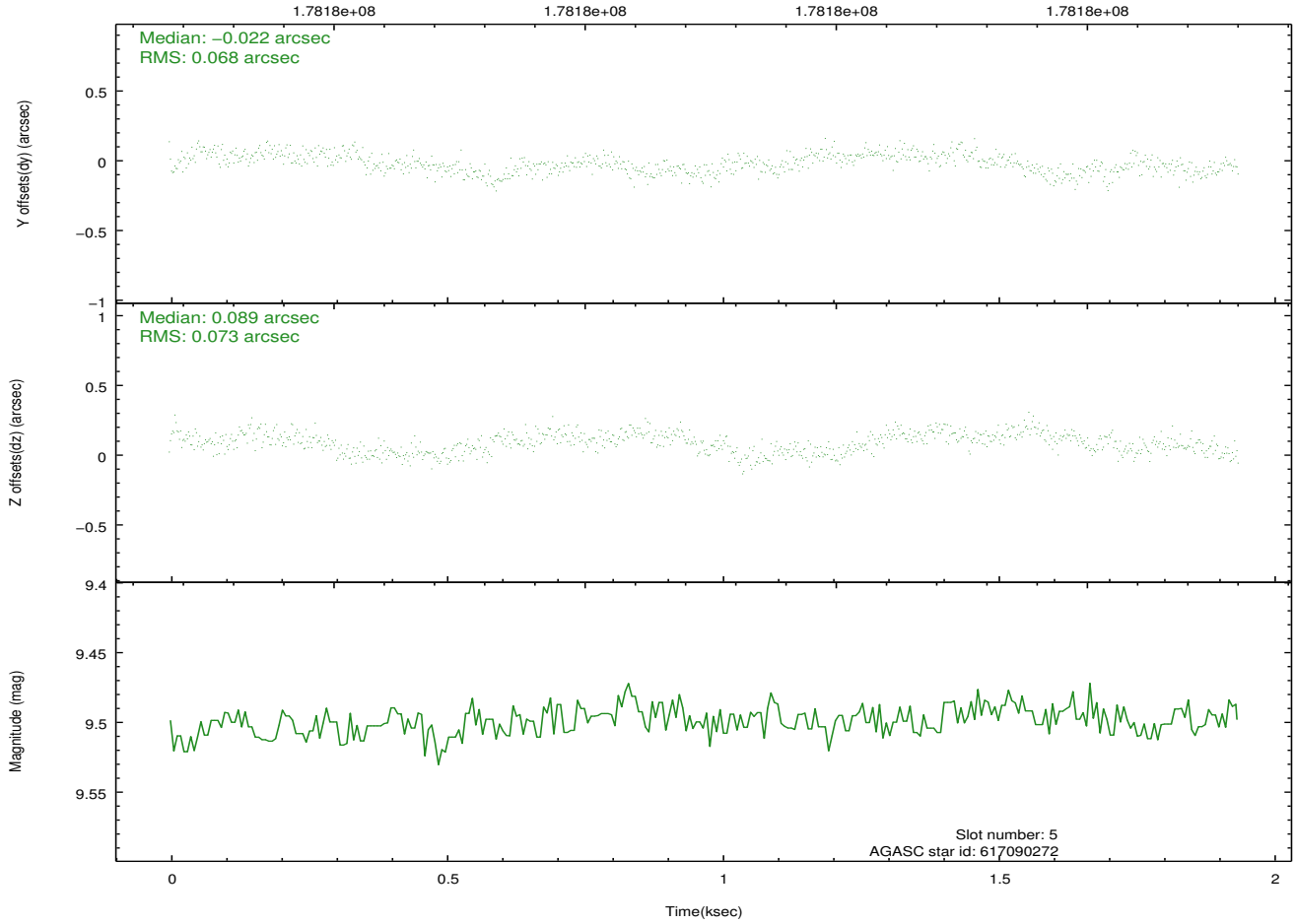
## 2.4.2 Slot 4



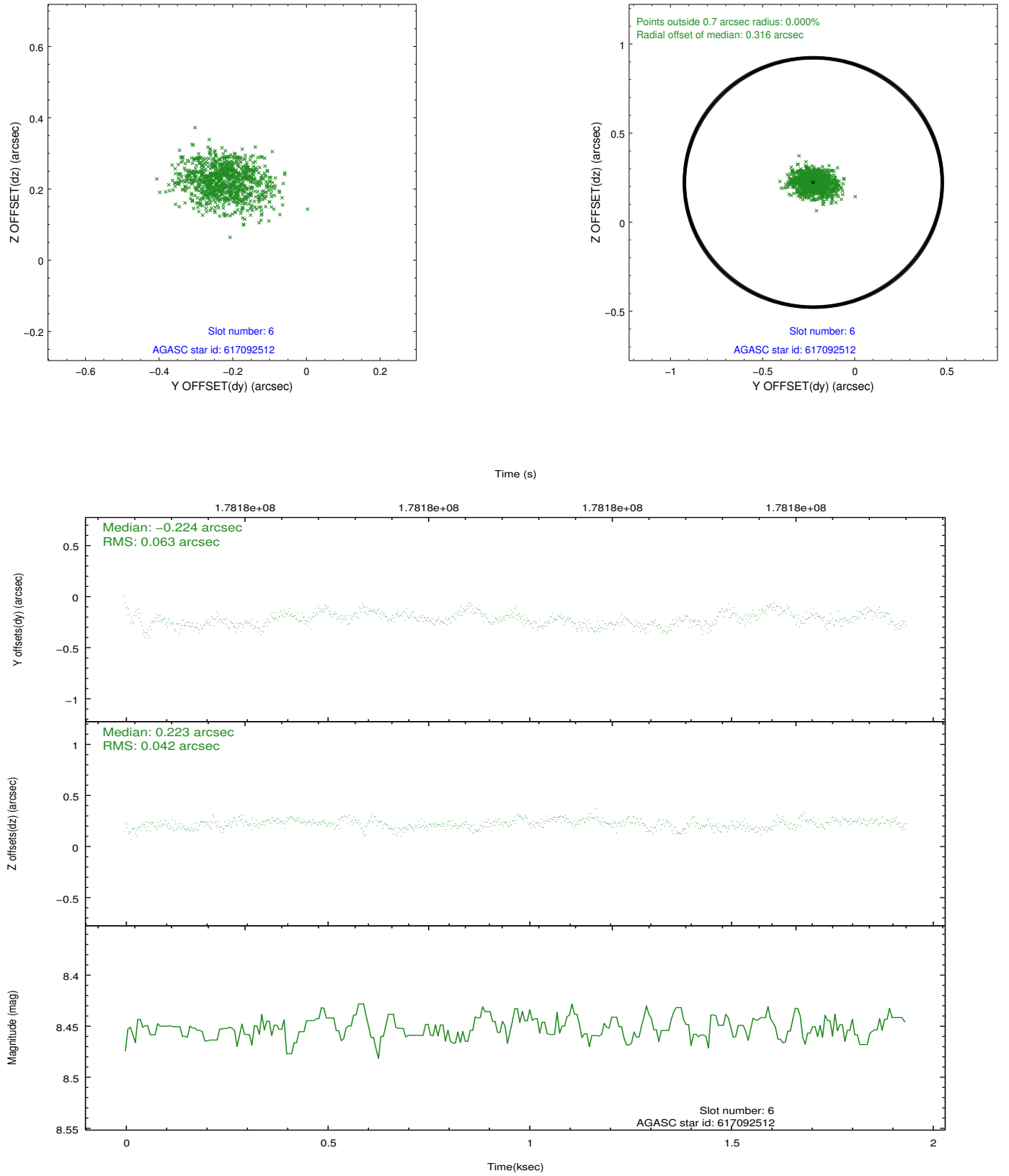
### 2.4.3 Slot 5



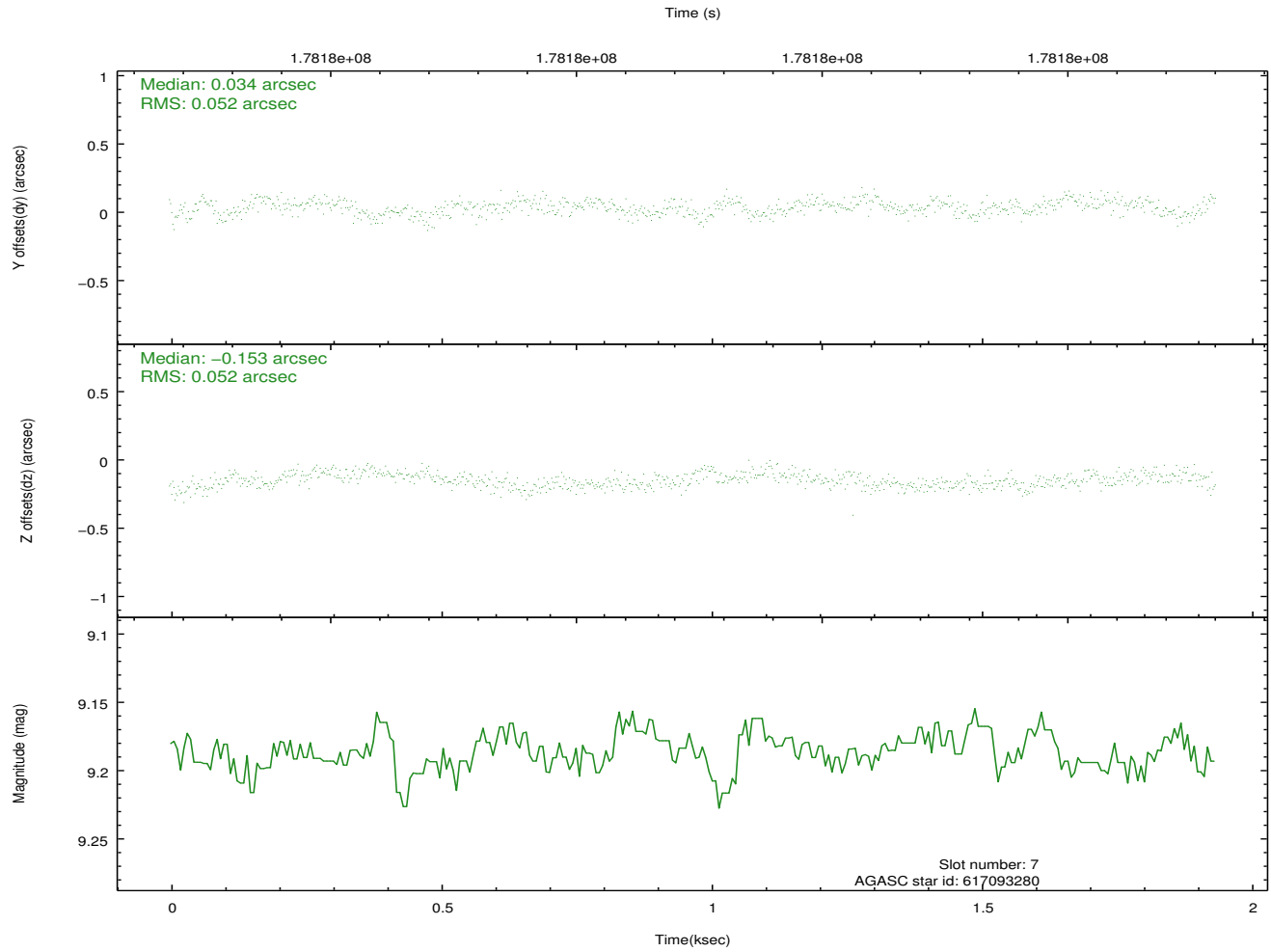
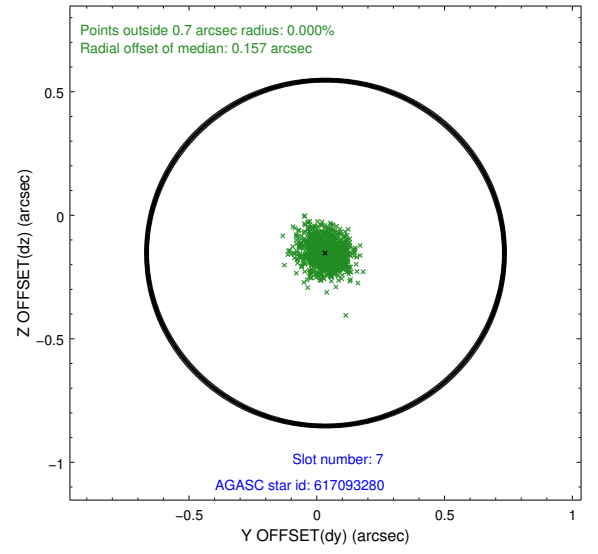
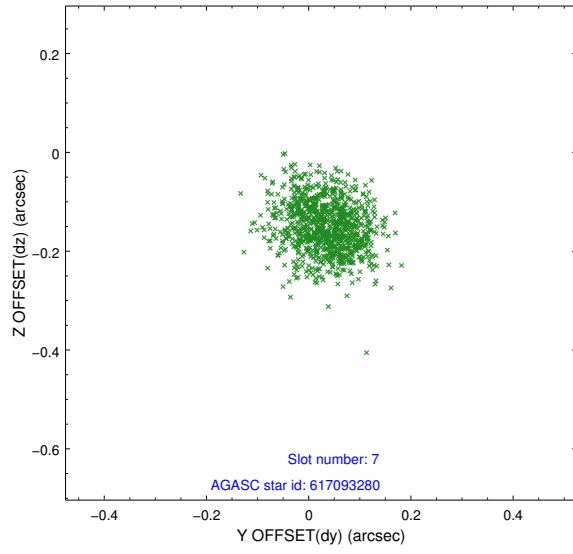
Time (s)



## 2.4.4 Slot 6

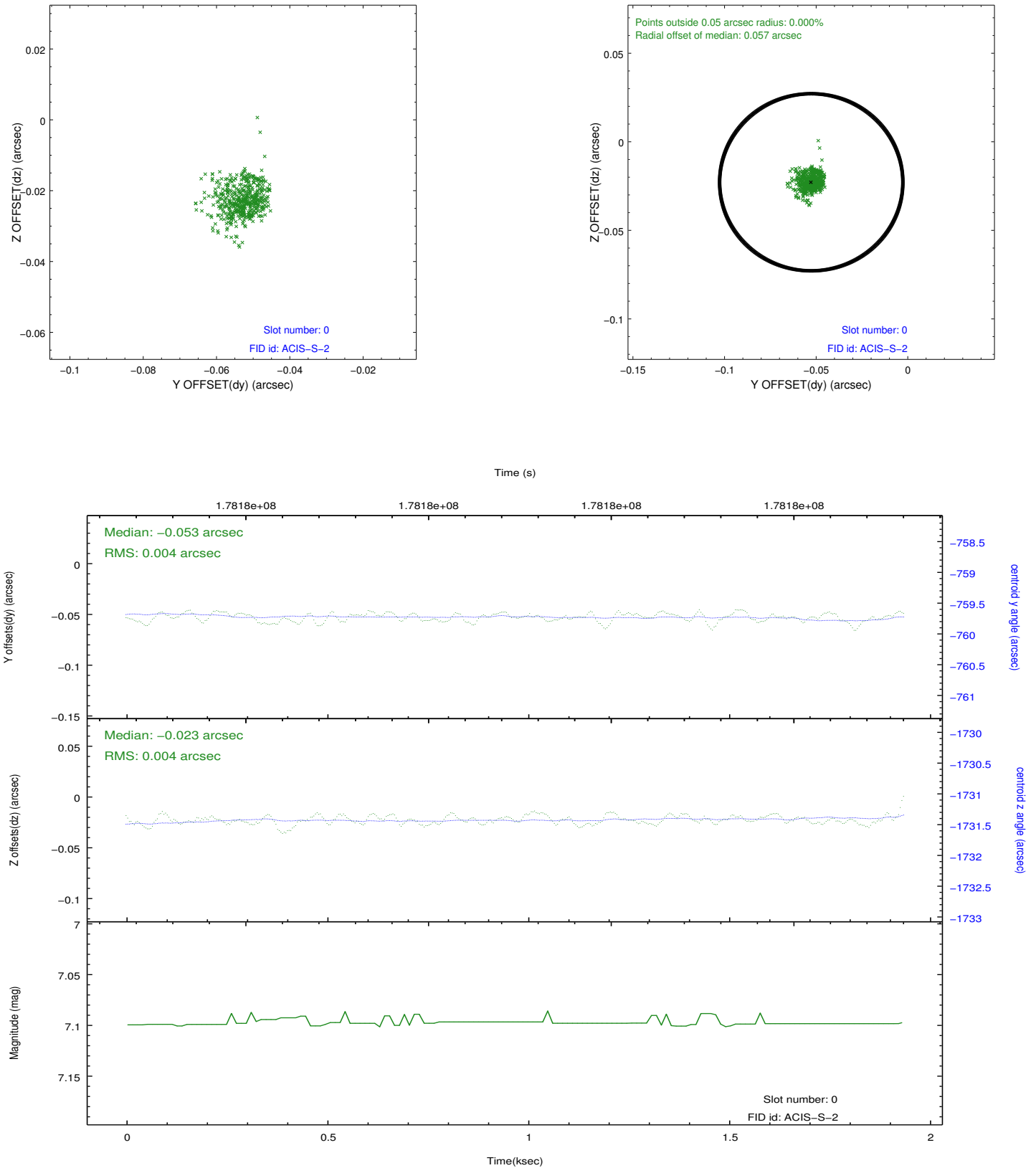


## 2.4.5 Slot 7

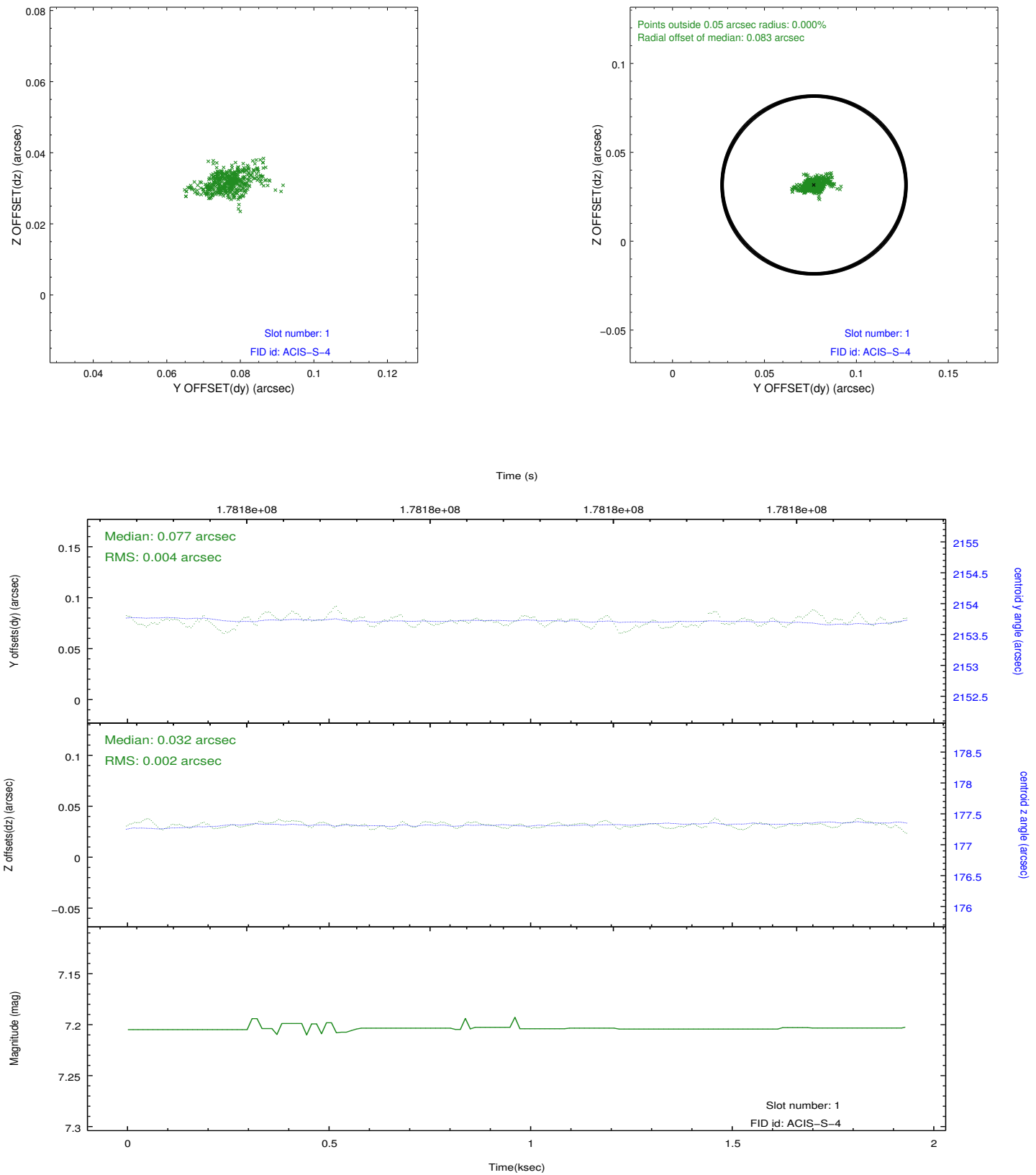


## 2.5 FID Slots

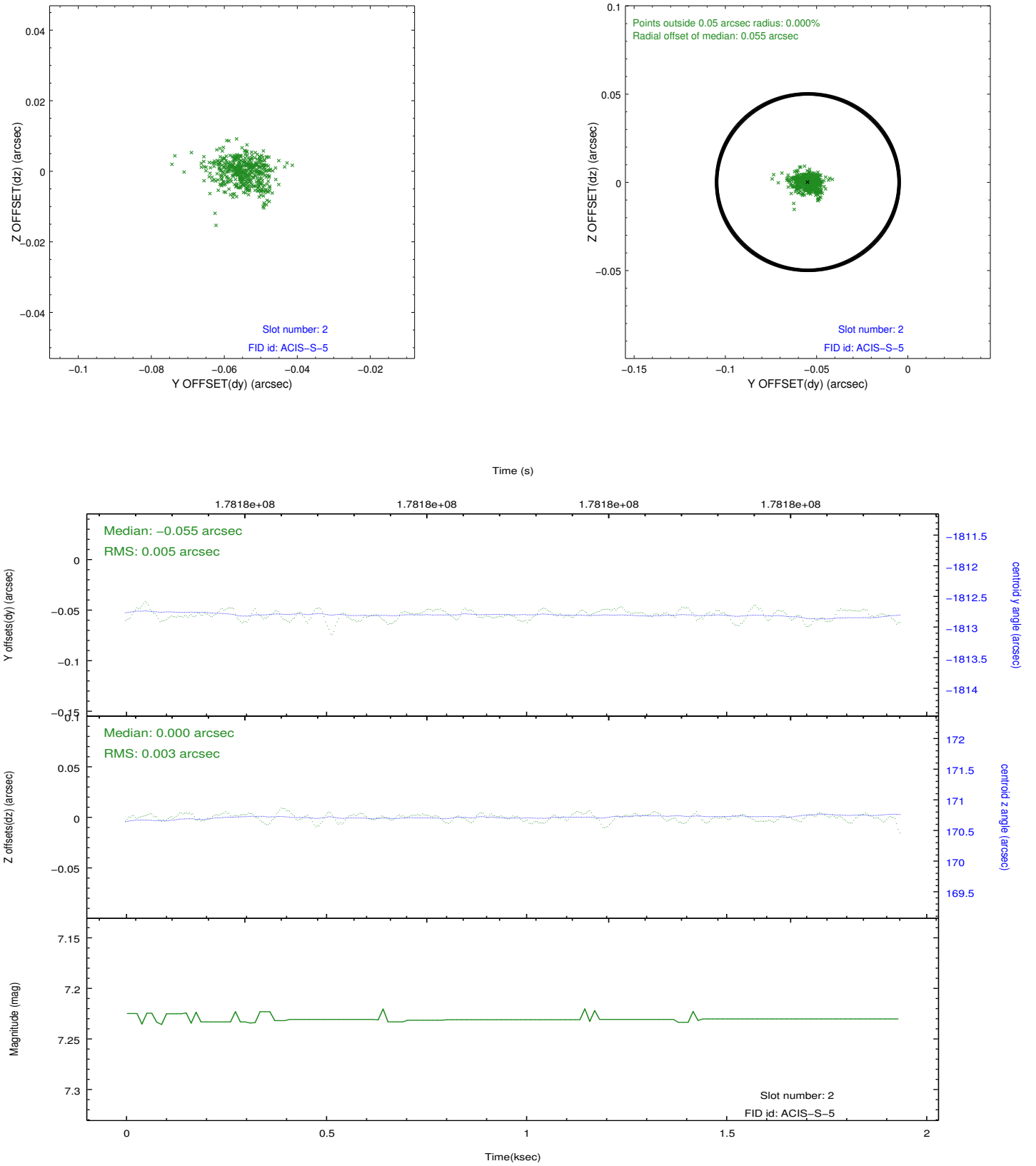
### 2.5.1 Slot 0



## 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)	2012.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.933

### A.2 Comments