

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 5714 - L2 Version 3  
Chandra X-Ray Center

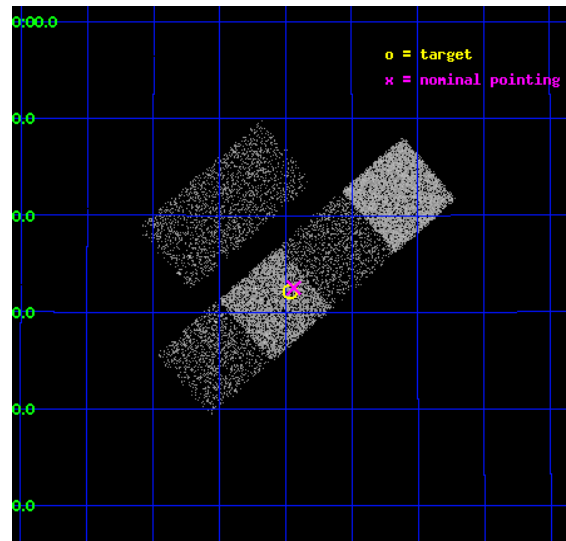
L2 Processing Date : Dec 18 2012

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# 1 Front

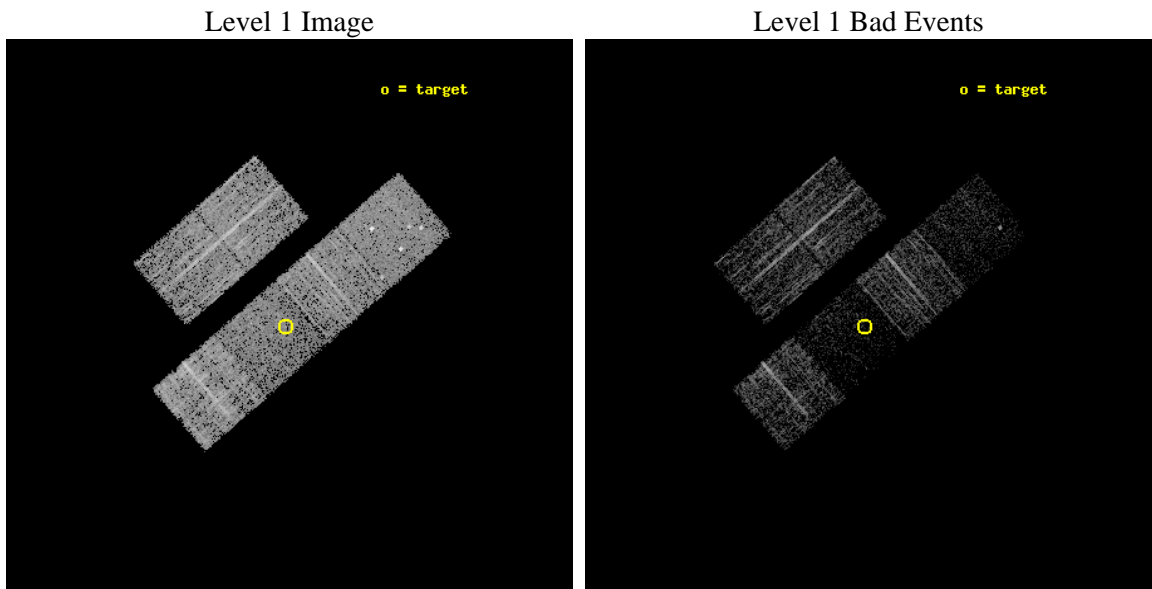
seq_num	701136	Sequence number
obs_id	5714	Observation id
title	What kind of Jets does Nature make? X-ray characterization of the FIRST Flat Spectrum Sample	Proposal title
observer	Dr. Giovanni Fossati	Principal investigator
object	87GB 1243+2248	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	191.490833	Observer's specified target RA [deg]
dec_targ	22.534833	Observer's specified target Dec [deg]
ra_nom	191.48420971845	Nominal RA [deg]
dec_nom	22.542150943217	Nominal Dec [deg]
roll_nom	138.9637343557	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3177.5999881625	Sum of GTIs [s]
livetime	3137.3633037914	Livetime [s]
ontime2	3177.5999881625	Sum of GTIs [s]
ontime3	3177.5999881625	Sum of GTIs [s]
ontime5	3177.5999881625	Sum of GTIs [s]
ontime6	3174.3589978814	Sum of GTIs [s]
ontime7	3177.5999881625	Sum of GTIs [s]
ontime8	3177.5999881625	Sum of GTIs [s]
l2events	18180	Number of level 2 events



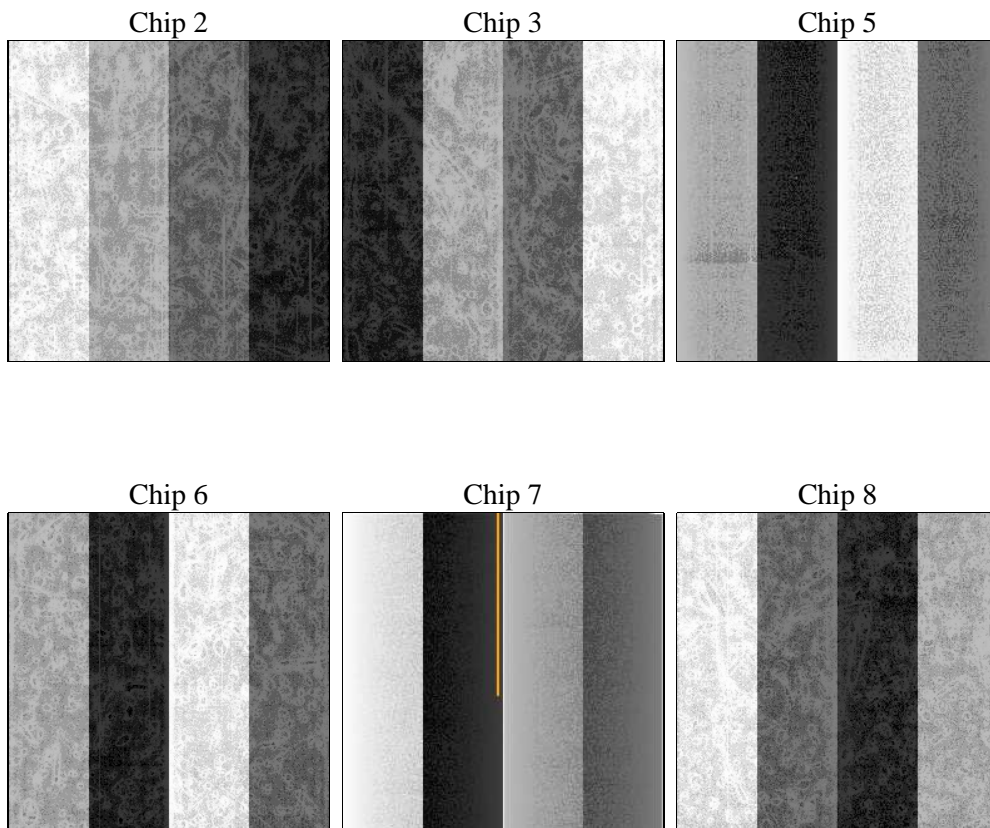
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	3177.5999881625	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime2	3177.5999881625	Sum of GTIs [s]
date	2012-12-18T07:04:12	Date and time of file creation	ontime3	3177.5999881625	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3177.5999881625	Sum of GTIs [s]
			ontime6	3174.3589978814	Sum of GTIs [s]
			ontime7	3177.5999881625	Sum of GTIs [s]
			ontime8	3177.5999881625	Sum of GTIs [s]
			l1events	98383	Number of level 1 events

### 2.1.4 Events

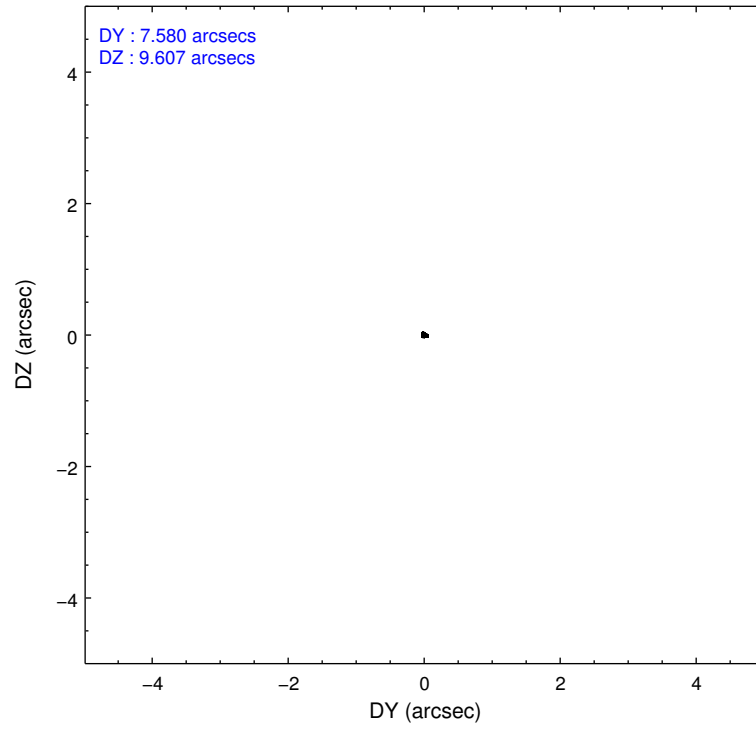
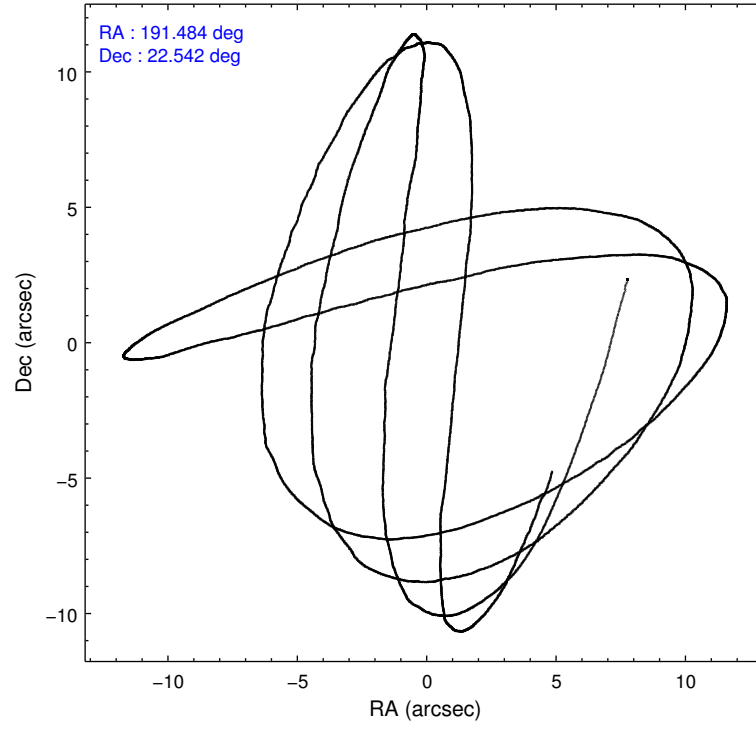
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	18268	16074	16472	16912	9867	20790
rejected events	16849	14777	6123	15429	4293	15560
rejected %	92%	91%	37%	91%	43%	74%

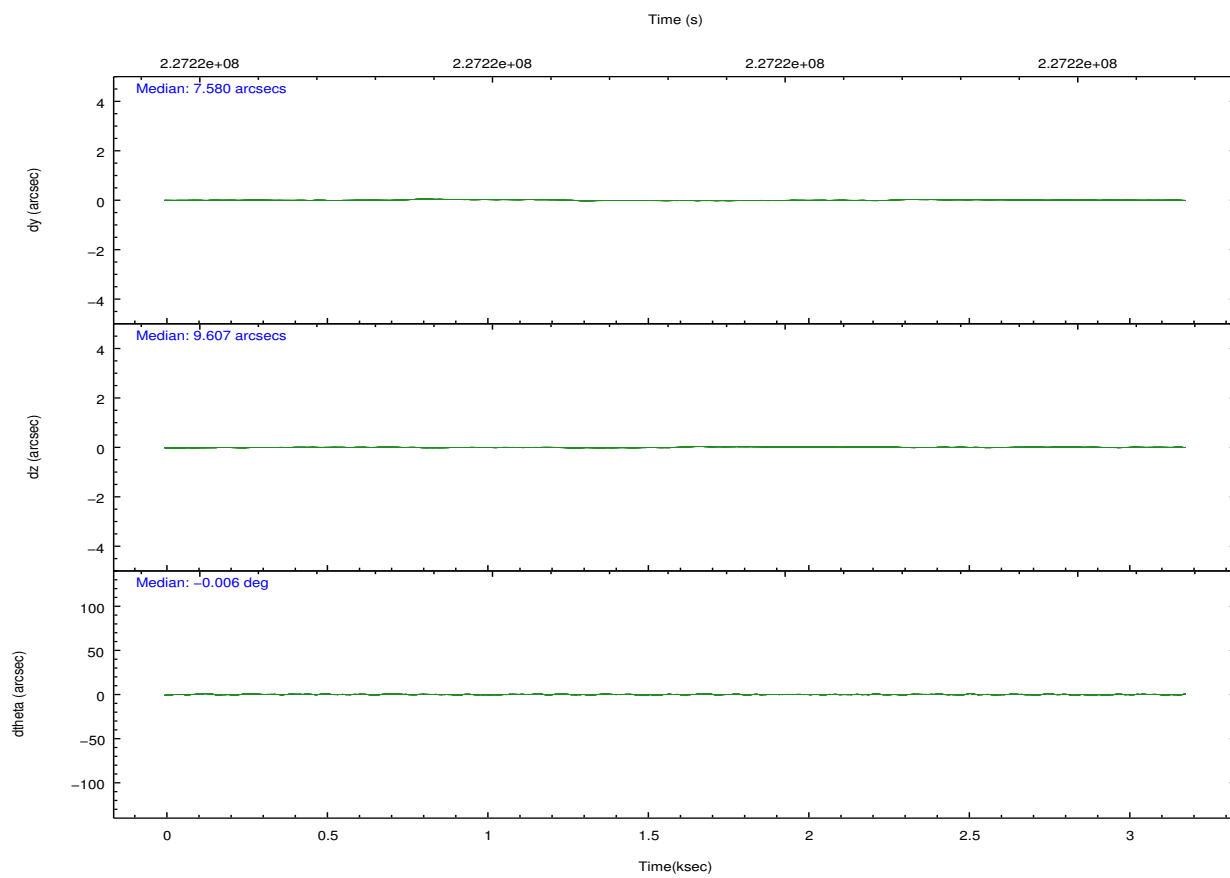
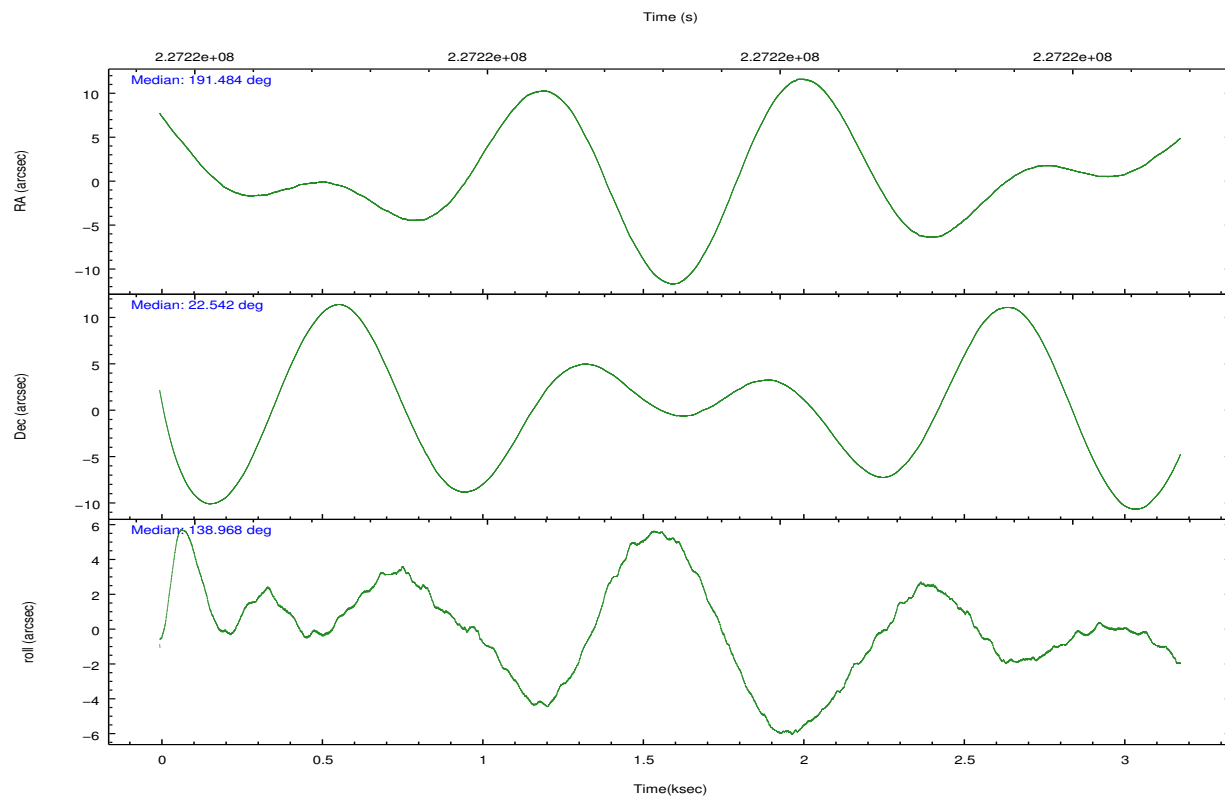
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	574	523	2492	565	695	1443
	3%	3%	15%	3%	7%	6%
grade 1 events	5	9	32	10	22	21
	0%	0%	0%	0%	0%	0%
grade 2 events	358	247	2945	318	1310	1234
	1%	1%	17%	1%	13%	5%
grade 3 events	162	158	475	166	598	610
	0%	0%	2%	0%	6%	2%
grade 4 events	143	163	467	168	607	608
	0%	1%	2%	0%	6%	2%
grade 5 events	270	339	1341	333	1027	567
	1%	2%	8%	1%	10%	2%
grade 6 events	201	218	4079	273	2428	1403
	1%	1%	24%	1%	24%	6%
grade 7 events	16555	14417	4641	15079	3180	14904
	90%	89%	28%	89%	32%	71%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	191.513278	191.4842097184539	Subarray requested	NONE	NONE
[deg] Pointing Dec	22.537515	22.54215094321732	Alternating exposures requested	N	N
[deg] Pointing Roll	138.795978	138.9637343557017	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	227217213.184000	227216127.8964			
Observation start date	2005-03-14T19:52:29	2005-03-14T19:35:27			
[s] Observation end time (MET)	227220213.184000	227221065.83413			
Observation end date	2005-03-14T20:42:29	2005-03-14T20:57:45			
Read mode	TIMED	TIMED			

## 2.3 Aspect





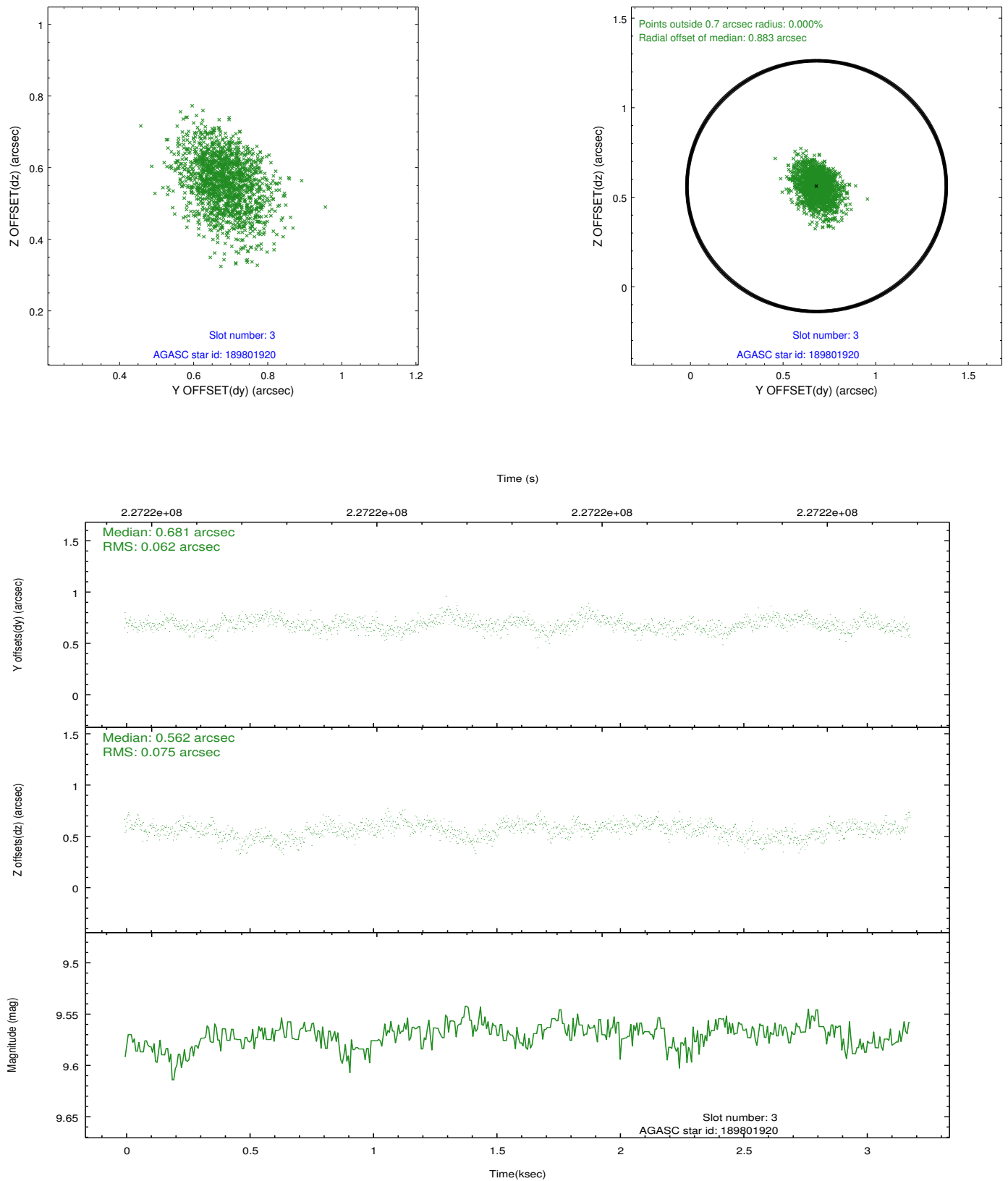
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	776	0.020	-0.014	0.007	0.012	0.000000	0.000000	935.71	-1726.43
1	FID	ACIS-S-4	7.21	776	0.064	0.005	0.006	0.010	0.000000	0.000000	2154.27	175.69
2	FID	ACIS-S-5	7.23	776	-0.111	0.022	0.005	0.010	0.000000	0.000000	-1810.73	171.55
3	GUIDE	189801920	9.57	1553	0.681	0.562	0.102	0.170	191.716047	22.488112	-622.44	-310.38
4	GUIDE	260850056	9.53	1552	-0.157	0.149	0.103	0.168	191.450836	23.233163	1805.67	-1748.34
5	GUIDE	260853168	7.82	1552	-0.201	-0.488	0.065	0.100	191.970830	22.719776	-707.13	-1497.98
6	GUIDE	260862160	8.50	1552	-0.265	-0.378	0.065	0.104	191.778046	22.616833	-472.94	-796.42
7	GUIDE	260862176	9.00	1549	-0.052	0.161	0.087	0.137	191.599694	23.314428	1628.55	-2293.06

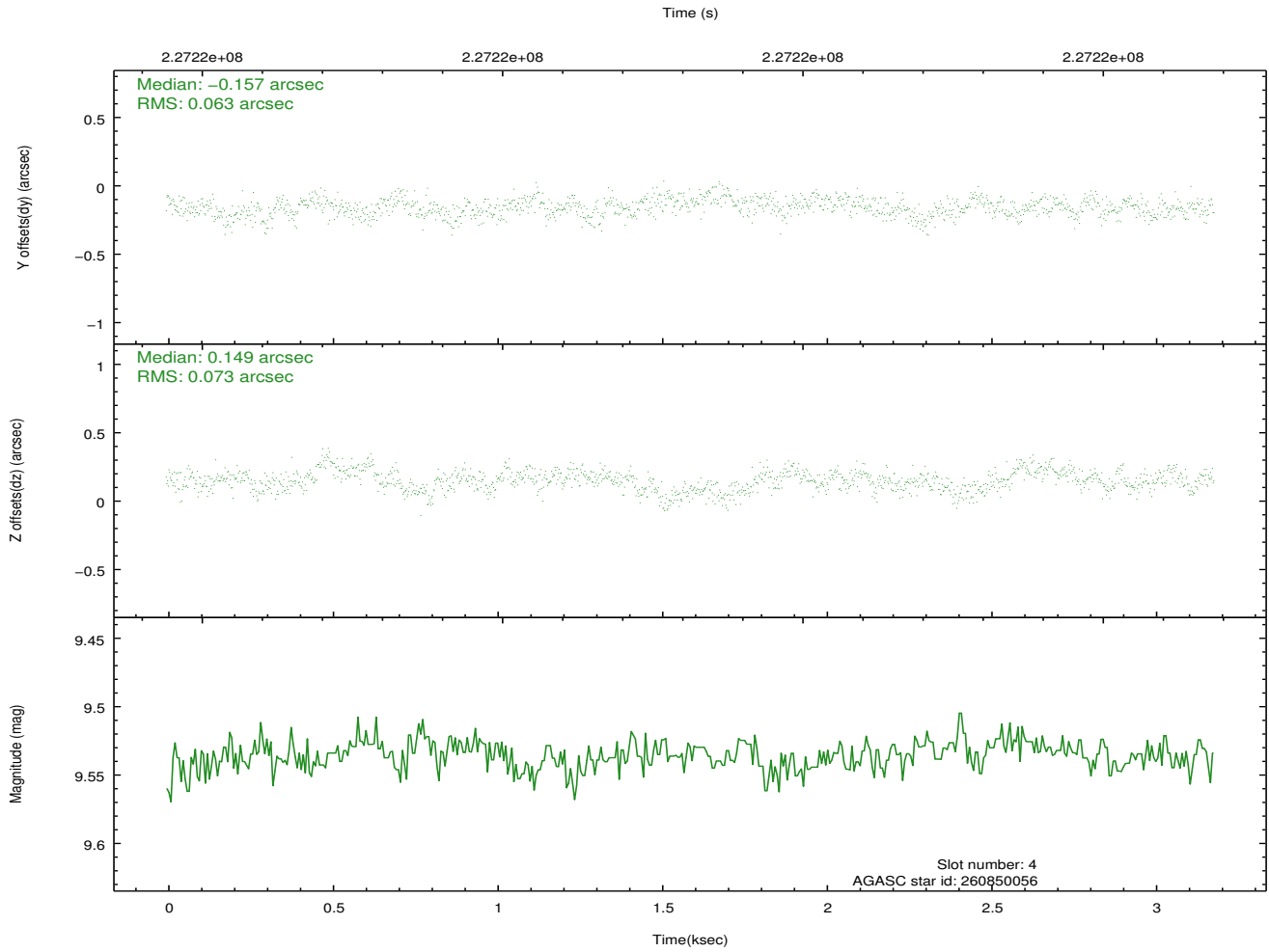
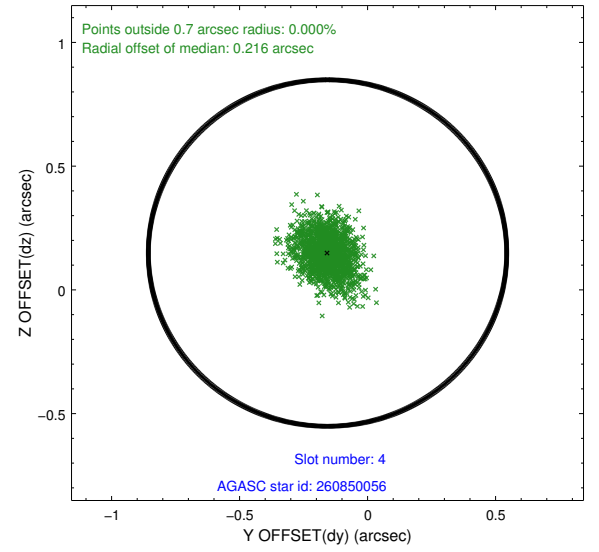
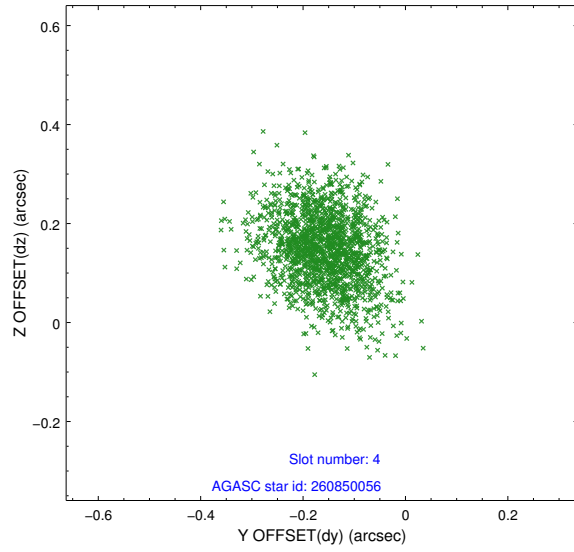


## 2.4 Star Slots

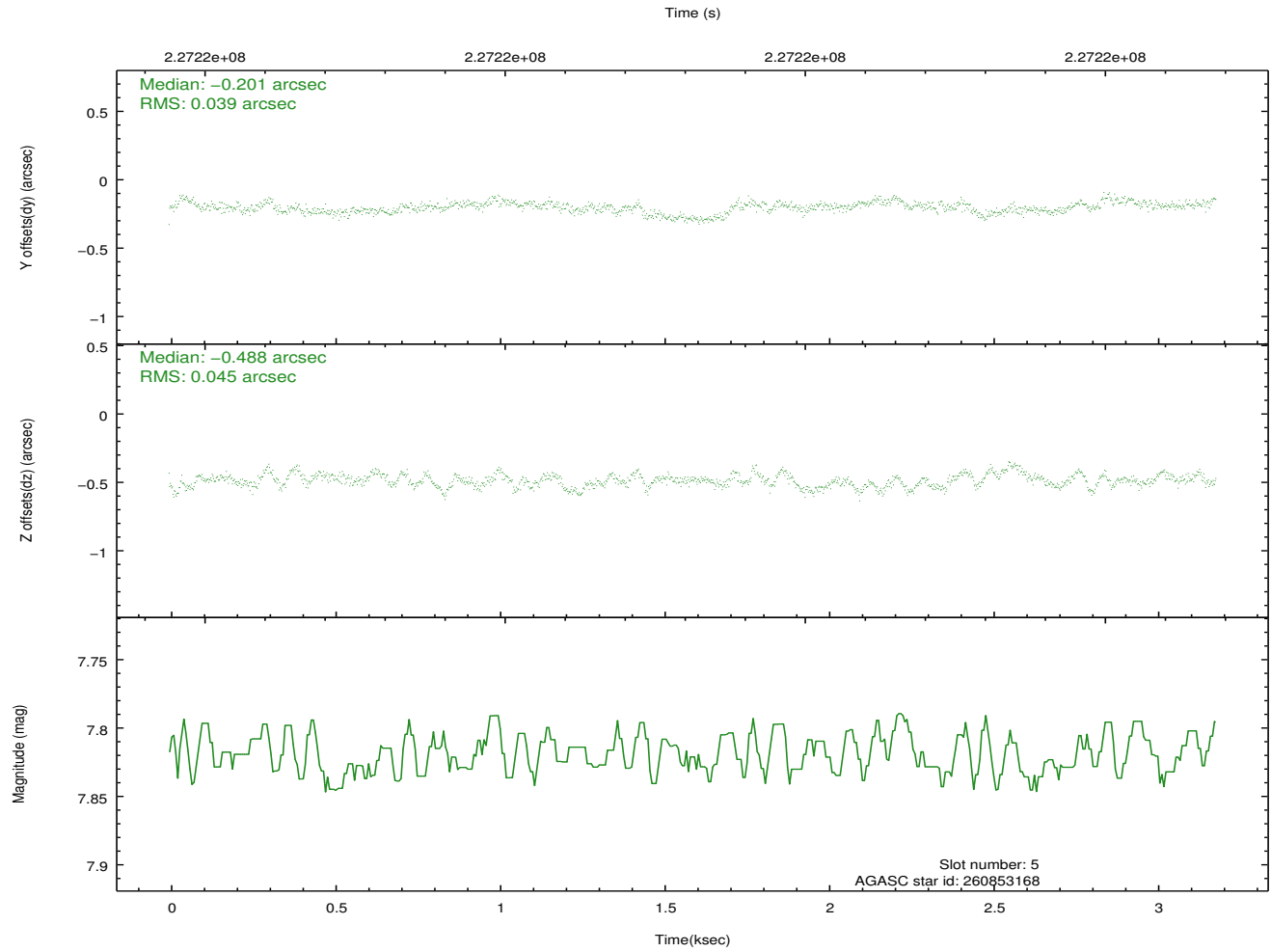
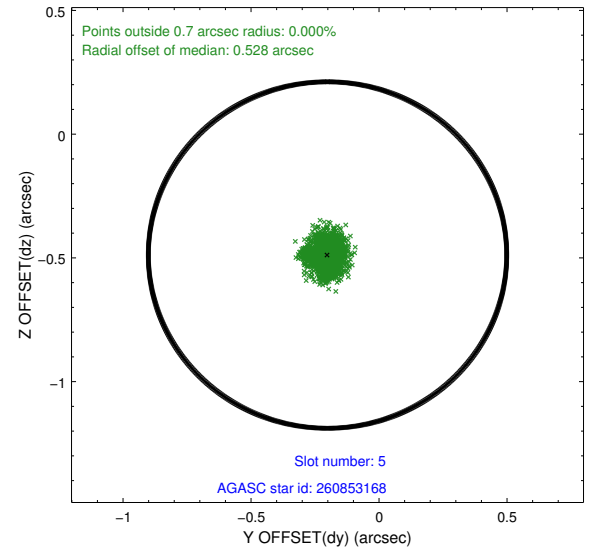
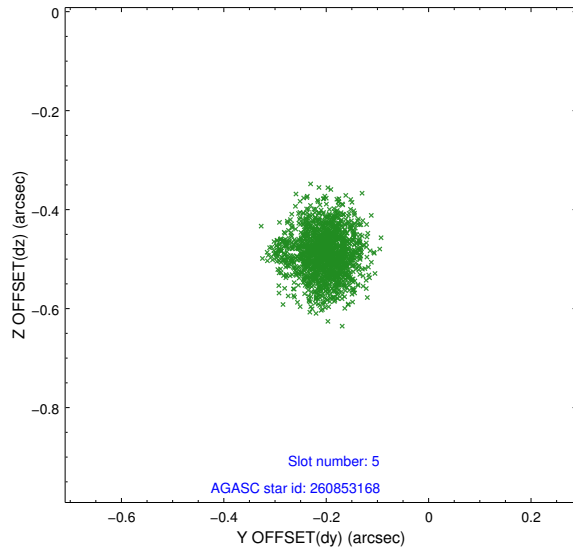
### 2.4.1 Slot 3



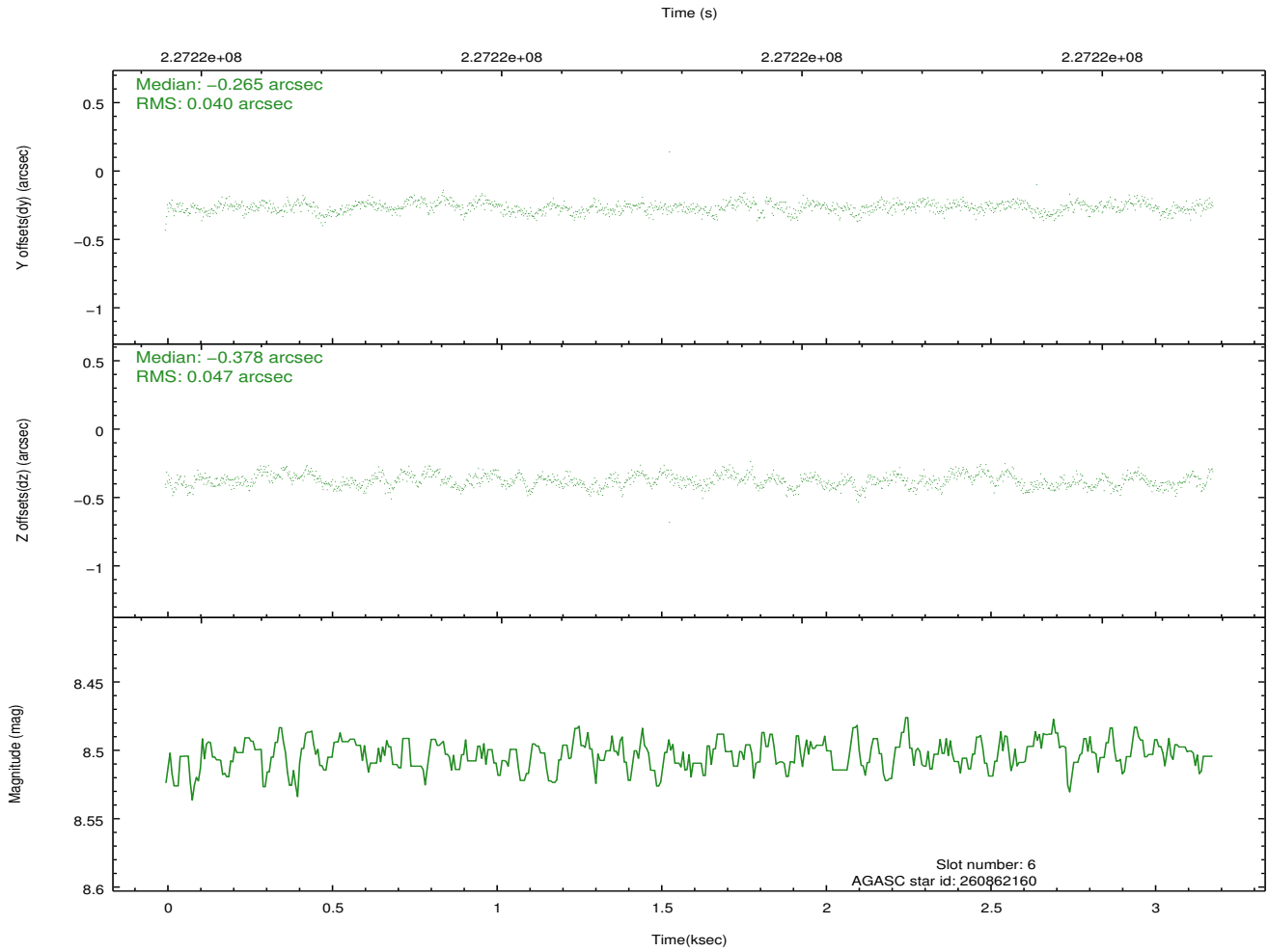
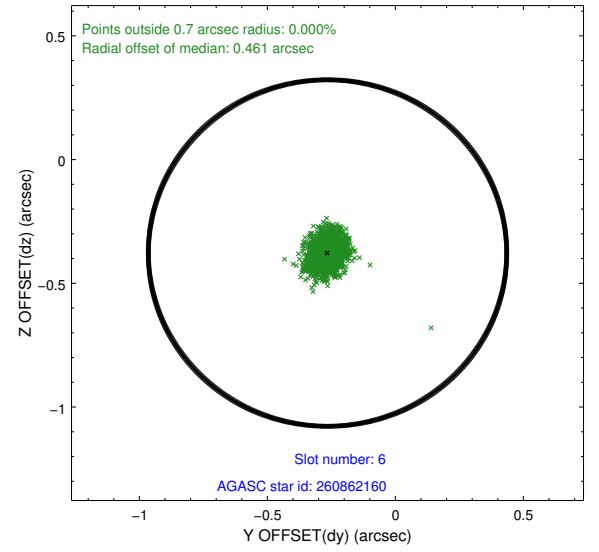
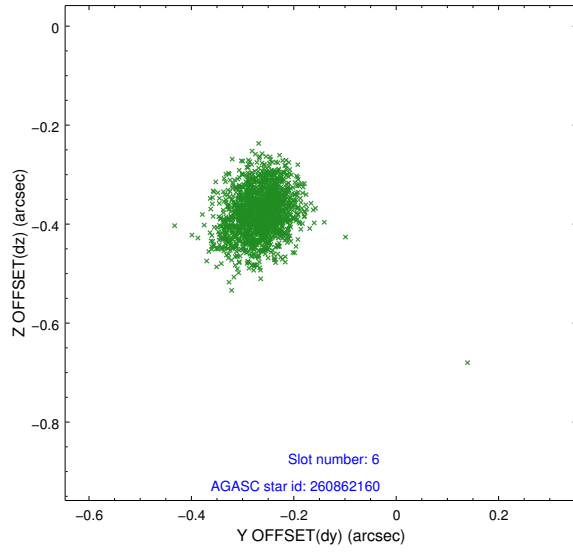
## 2.4.2 Slot 4



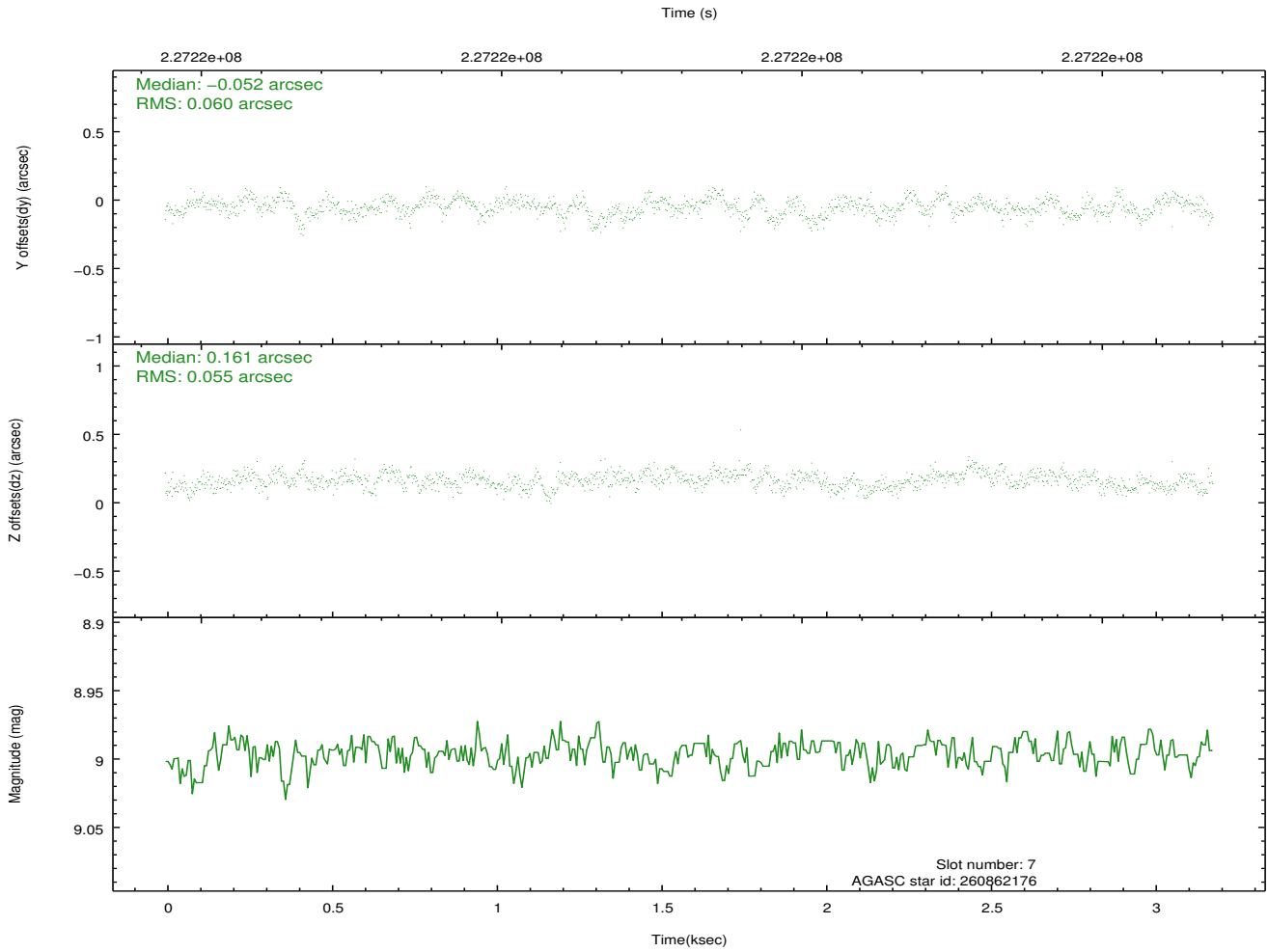
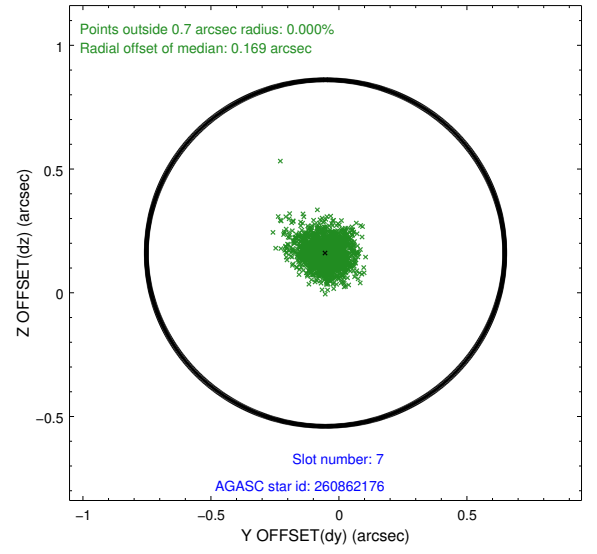
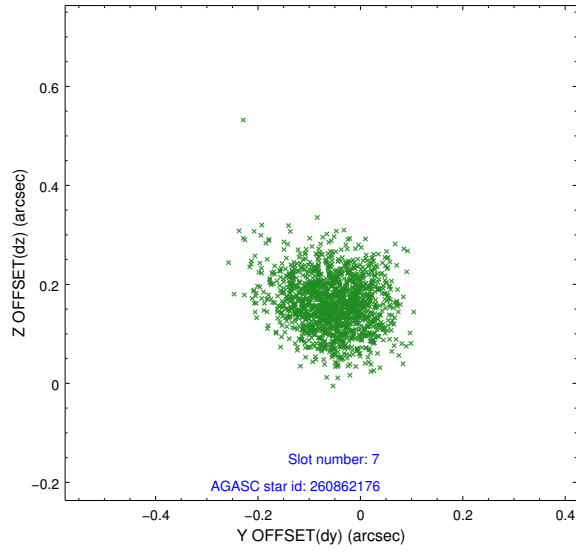
### 2.4.3 Slot 5



## 2.4.4 Slot 6

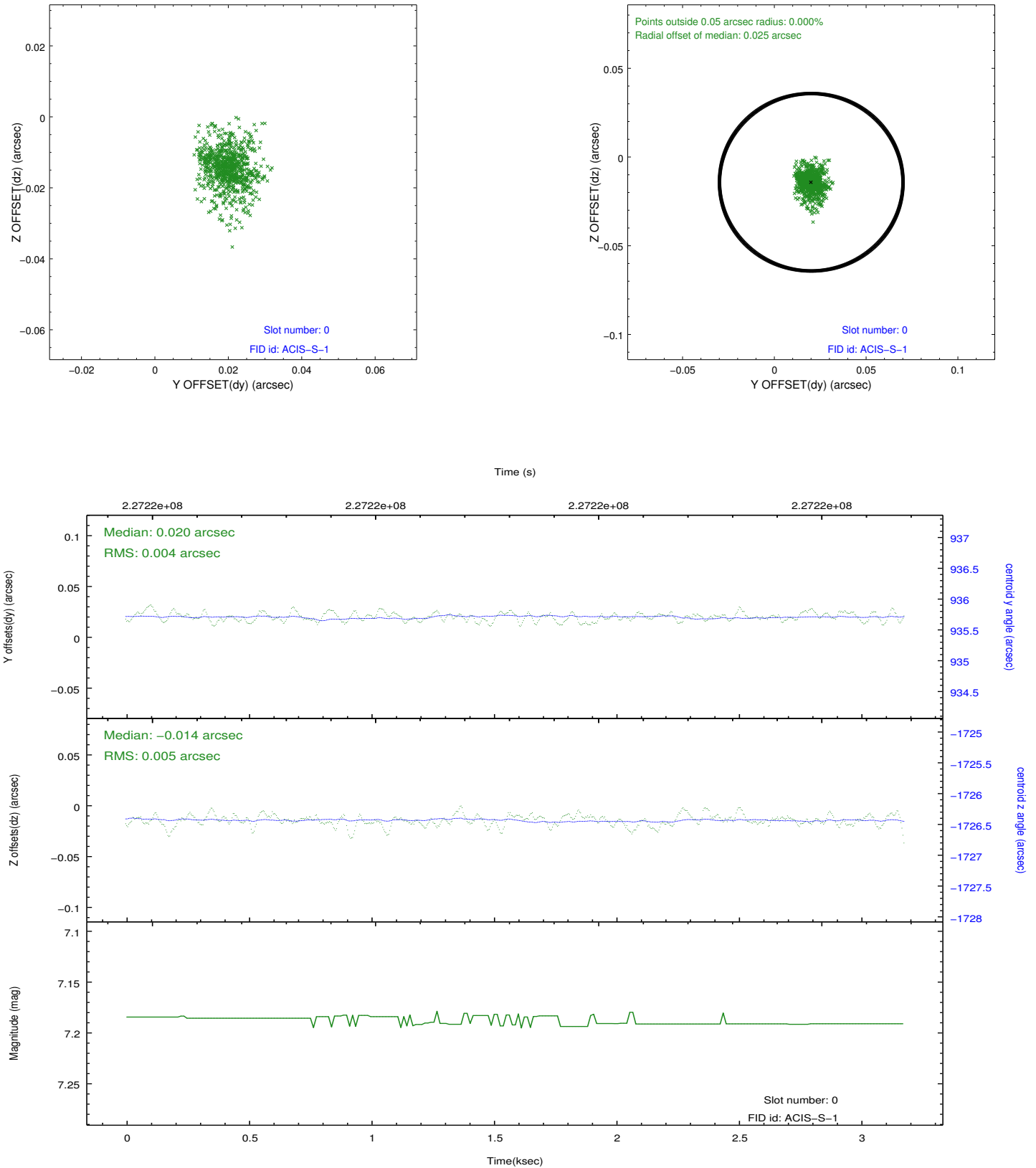


## 2.4.5 Slot 7

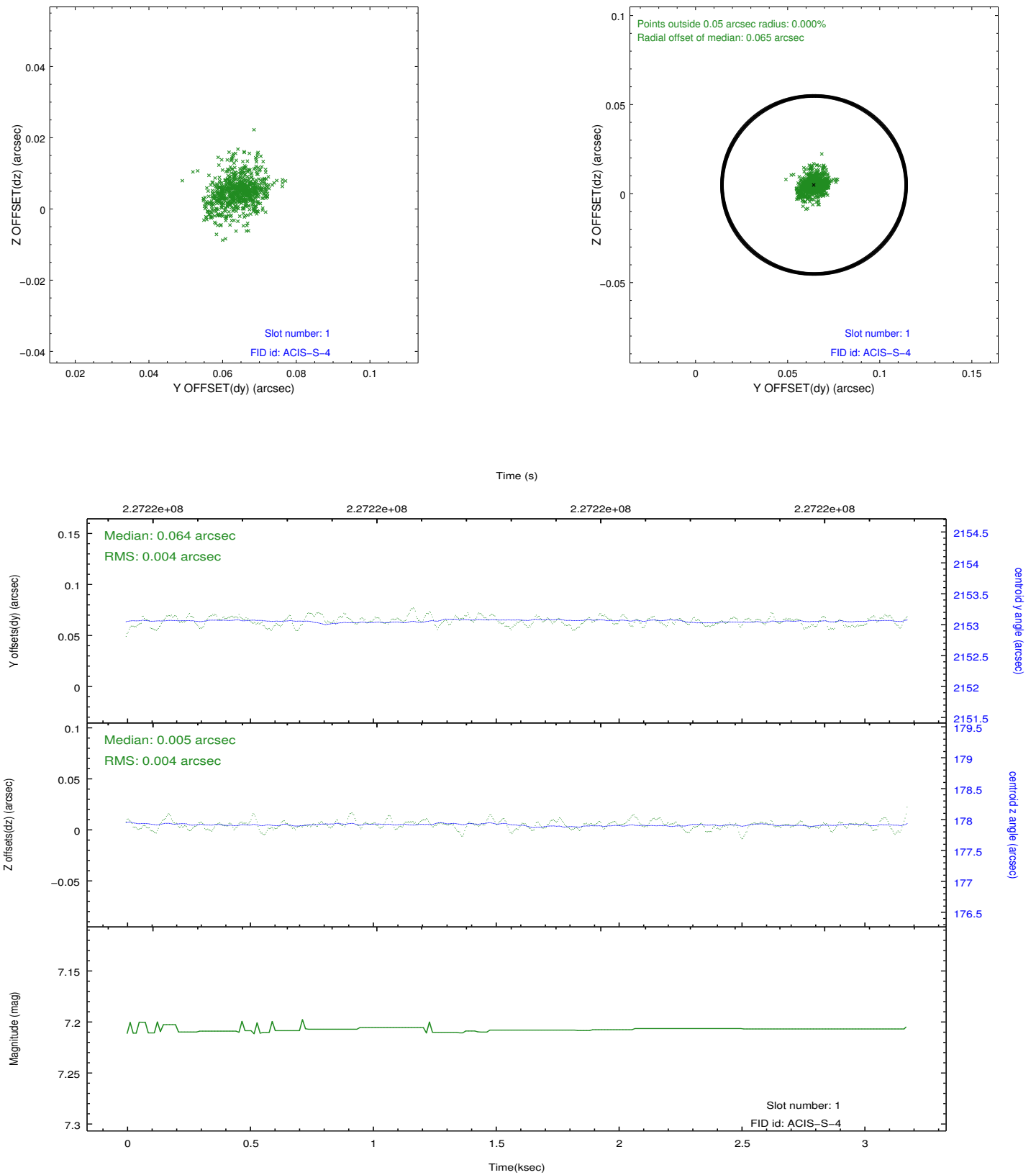


## 2.5 FID Slots

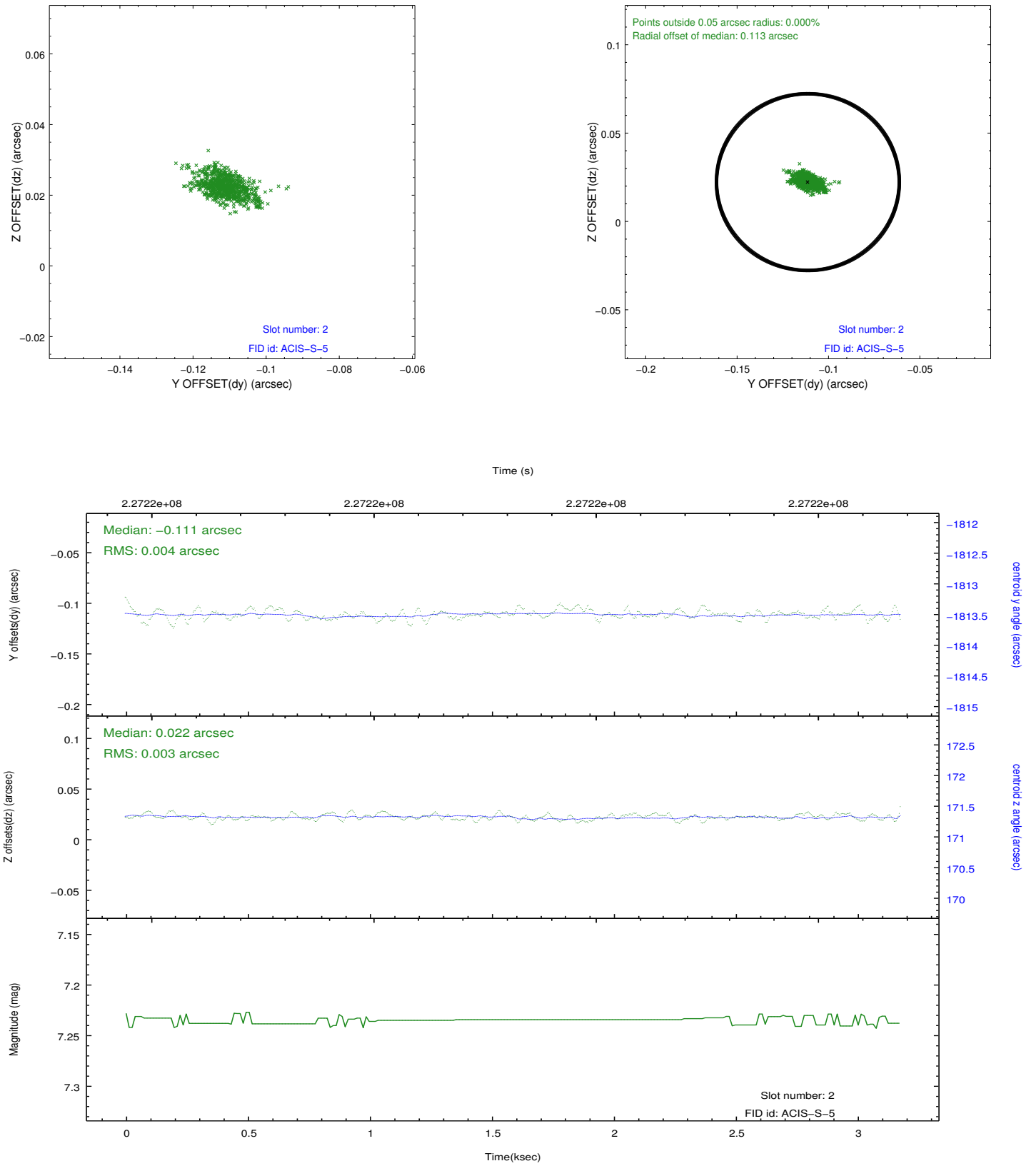
### 2.5.1 Slot 0



## 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)	2013.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.177599

### A.2 Comments