

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1916 - L2 Version 3  
Chandra X-Ray Center

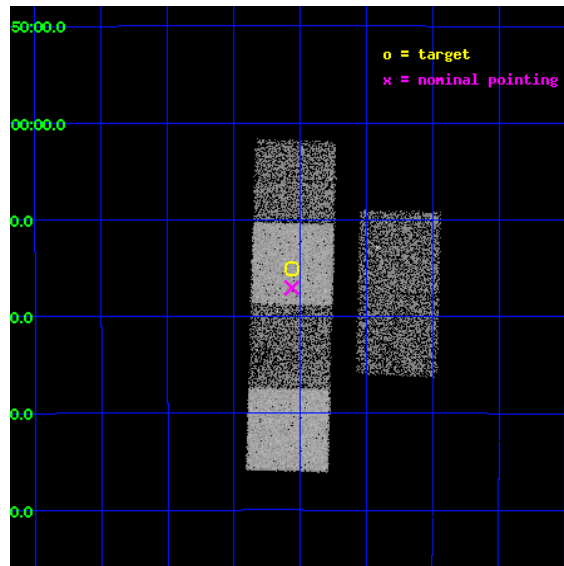
L2 Processing Date : Sep 25 2012

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# 1 Front

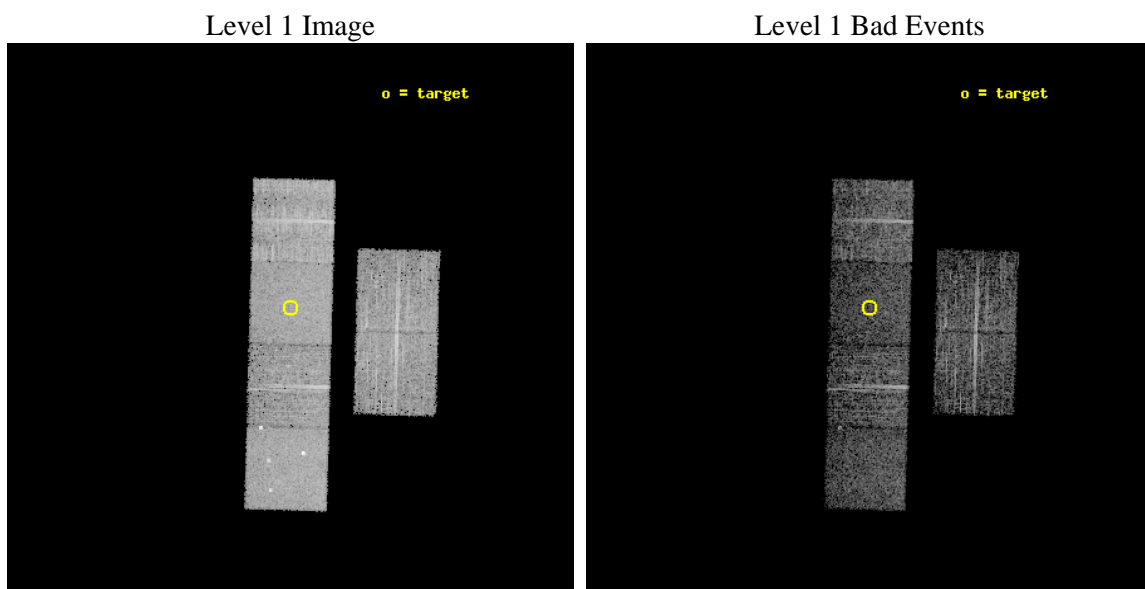
seq_num	400129	Sequence number
obs_id	1916	Observation id
title	X-RAY BURSTERS WITH LOW PERSISTENT X-RAY LUMINOSITIES	Proposal tit
observer	PROF FRANK VERBUNT	Principal investigator
object	SAX J1806.5-2215	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	271.641667	Observer's specified target RA [deg]
dec_targ	-22.251667	Observer's specified target Dec [deg]
ra_nom	271.64073370564	Nominal RA [deg]
dec_nom	-22.284080624408	Nominal Dec [deg]
roll_nom	271.51932433105	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4755.1607674211	Sum of GTIs [s]
livetime	4694.94805857	Livetime [s]
ontime2	4755.2000044137	Sum of GTIs [s]
ontime3	4755.0376474261	Sum of GTIs [s]
ontime5	4755.1197274178	Sum of GTIs [s]
ontime6	4755.0786874294	Sum of GTIs [s]
ontime7	4755.1607674211	Sum of GTIs [s]
ontime8	4751.7555475086	Sum of GTIs [s]
l2events	53815	Number of level 2 events



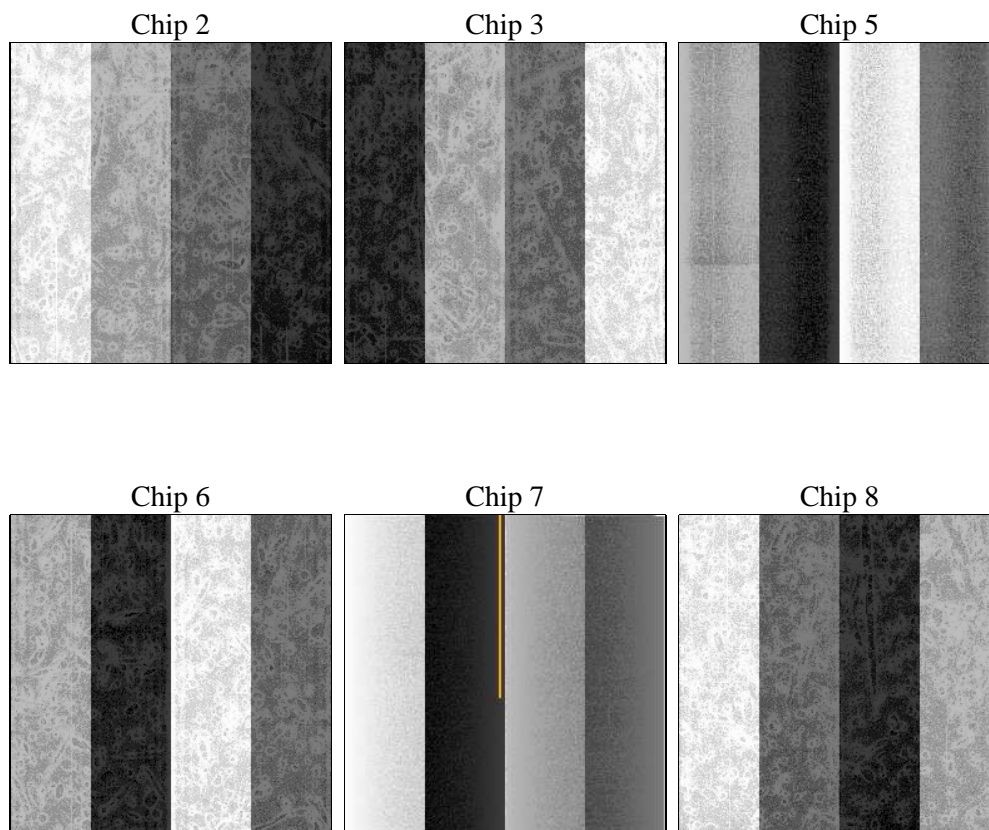
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4755.1607674211	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	4755.2000044137	Sum of GTIs [s]
date	2012-09-26T02:13:15	Date and time of file creation	ontime3	4755.0376474261	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4755.1197274178	Sum of GTIs [s]
			ontime6	4755.0786874294	Sum of GTIs [s]
			ontime7	4755.1607674211	Sum of GTIs [s]
			ontime8	4751.7555475086	Sum of GTIs [s]
			l1events	235190	Number of level 1 events

### 2.1.4 Events

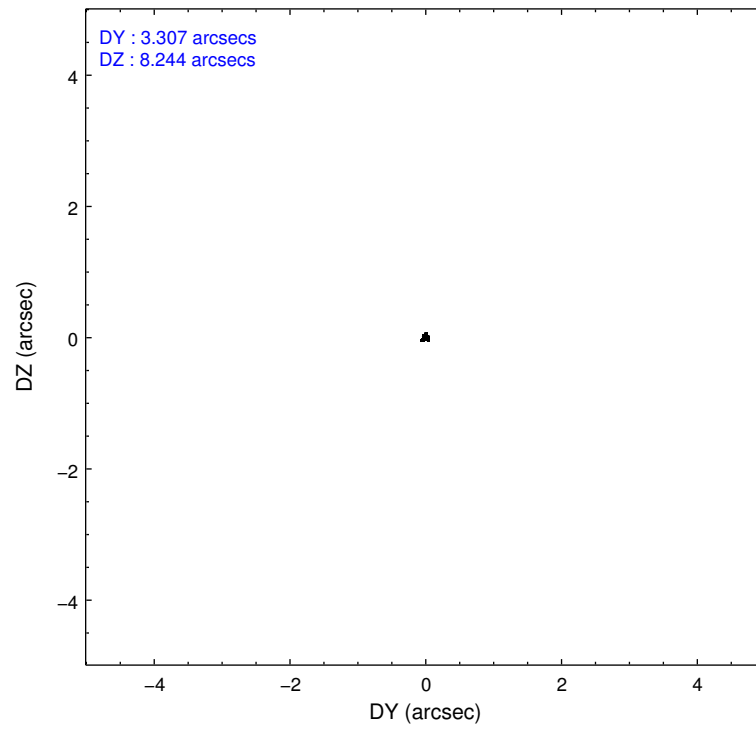
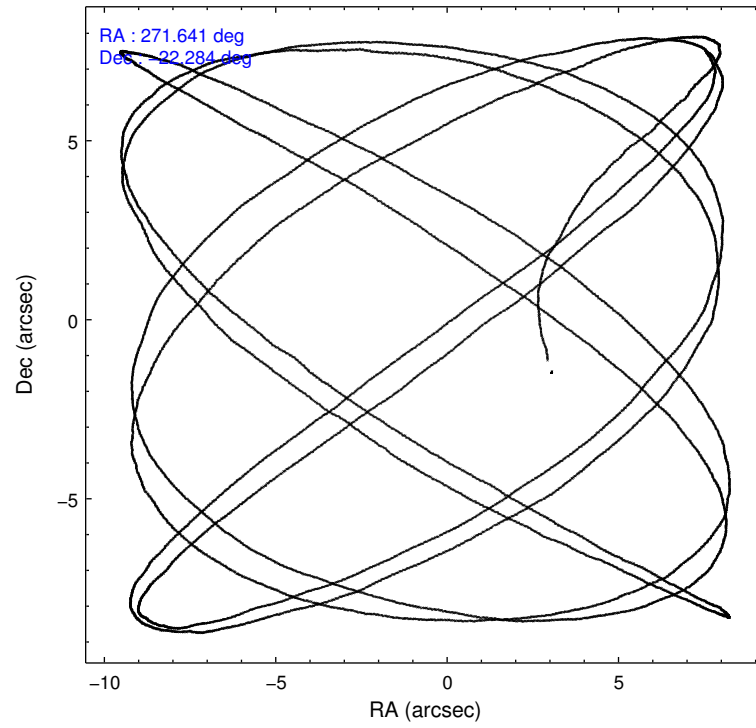
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	33327	32775	45951	33651	40033	49453	grade 0 events	2104	2082	3859	2375	1845	5353
rejected events	28830	28324	23145	28710	21915	34213		6%	6%	8%	7%	4%	10%
rejected %	86%	86%	50%	85%	54%	69%	grade 1 events	14	17	166	16	30	61
								0%	0%	0%	0%	0%	0%
							grade 2 events	938	893	6328	1046	3596	2340
								2%	2%	13%	3%	8%	4%
							grade 3 events	334	381	1047	372	1686	2446
								1%	1%	2%	1%	4%	4%
							grade 4 events	391	352	973	371	1604	2156
								1%	1%	2%	1%	4%	4%
							grade 5 events	986	1075	3346	1285	3598	1623
								2%	3%	7%	3%	8%	3%
							grade 6 events	736	748	10630	782	9424	2951
								2%	2%	23%	2%	23%	5%
							grade 7 events	27824	27227	19602	27404	18250	32523
								83%	83%	42%	81%	45%	65%

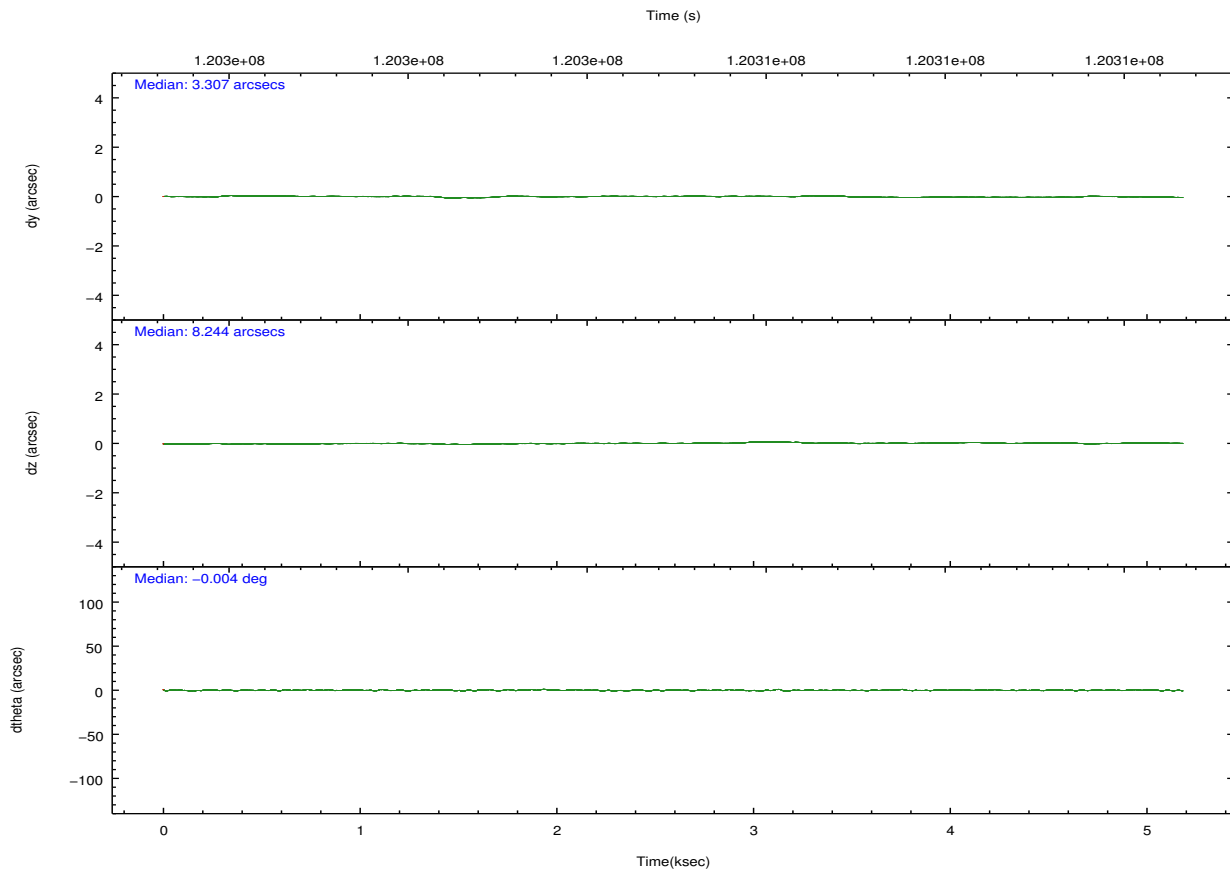
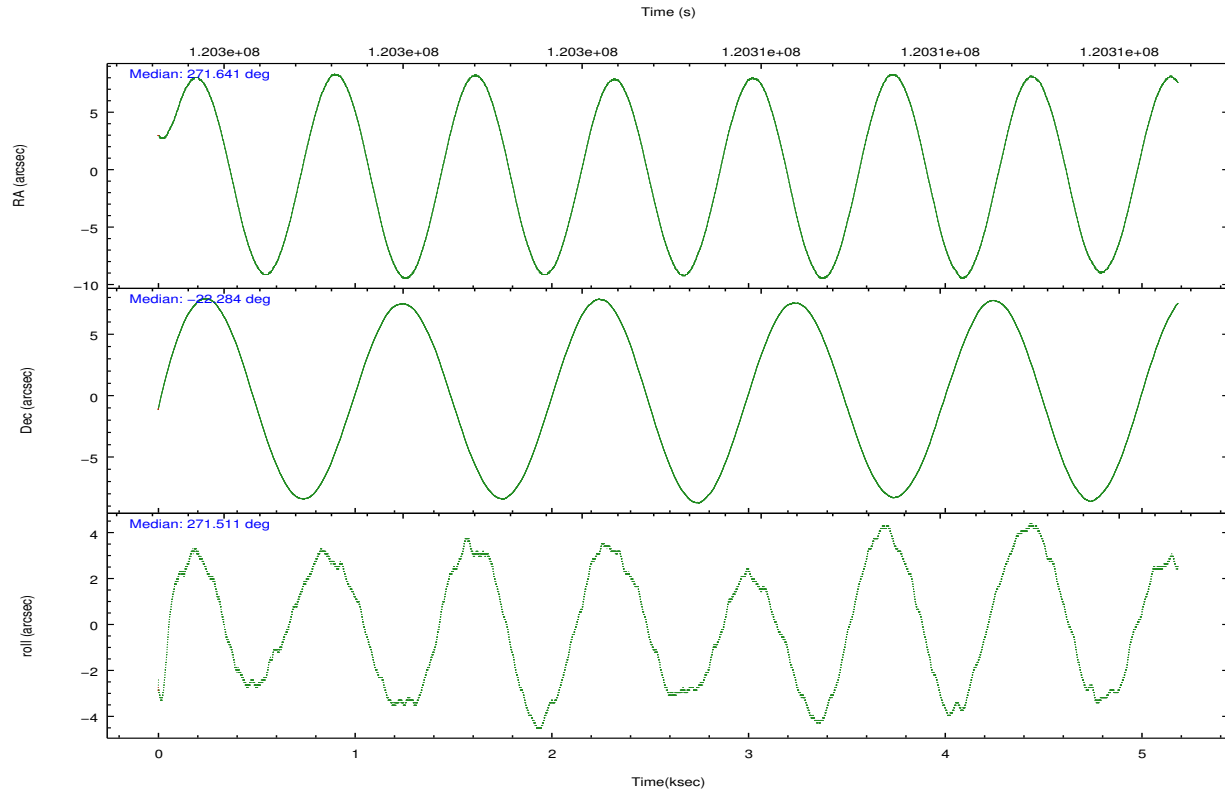


## 2.2 Compared Parameters

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	271.624972	271.6407337056372	Subarray requested	NONE	NONE
[deg] Pointing Dec	-22.261029	-22.28408062440761	Alternating exposures requested	N	N
[deg] Pointing Roll	271.356740	271.5193243310491	[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)	120303071.184000	120302426.1874			
Observation start date	2001-10-24T09:30:07	2001-10-24T09:20:26			
[s] Observation end time (MET)	120308071.184000	120308596.17515			
Observation end date	2001-10-24T10:53:27	2001-10-24T11:03:16			
Read mode	TIMED	TIMED			

## 2.3 Aspect



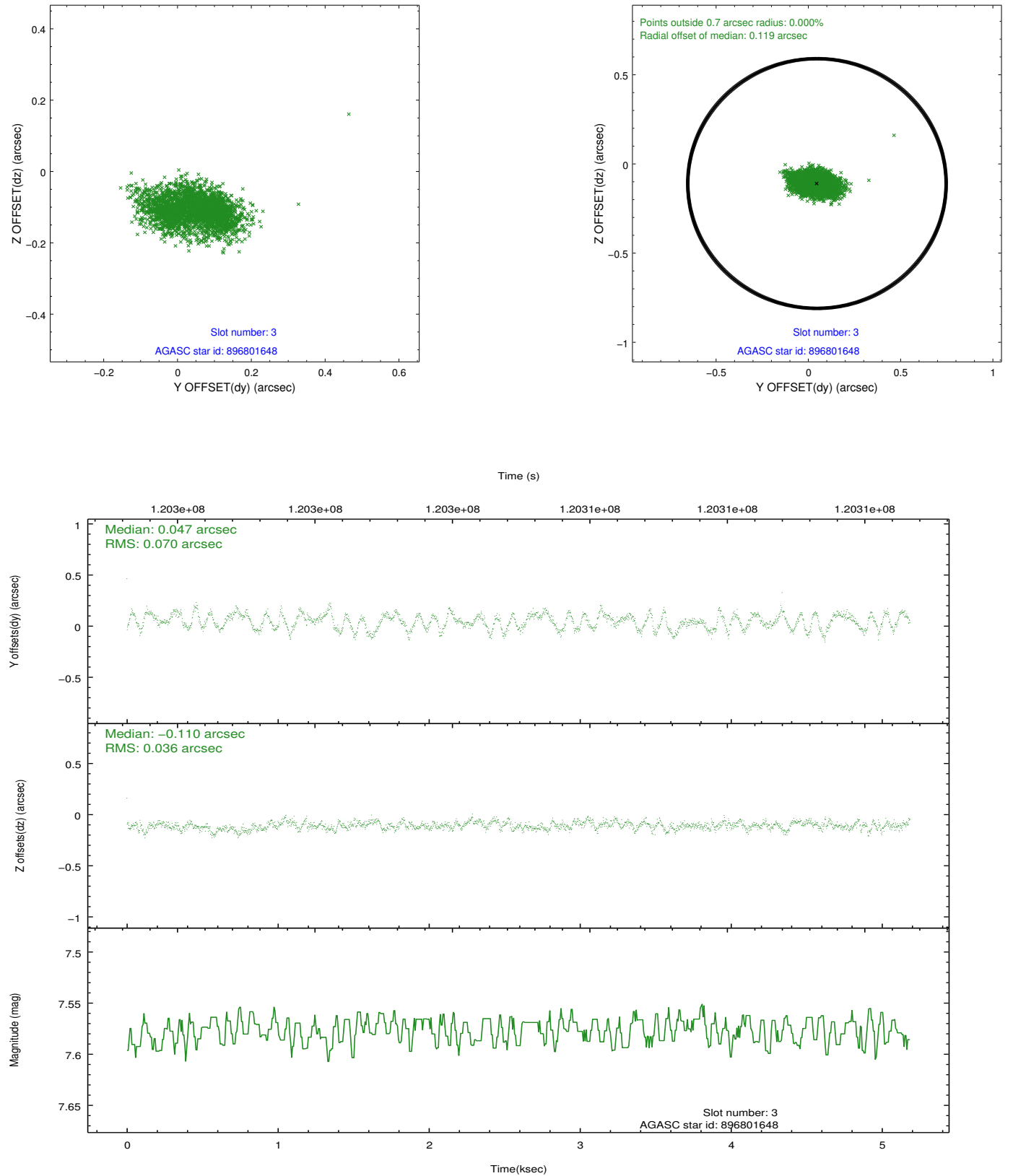


### Slot Statistics

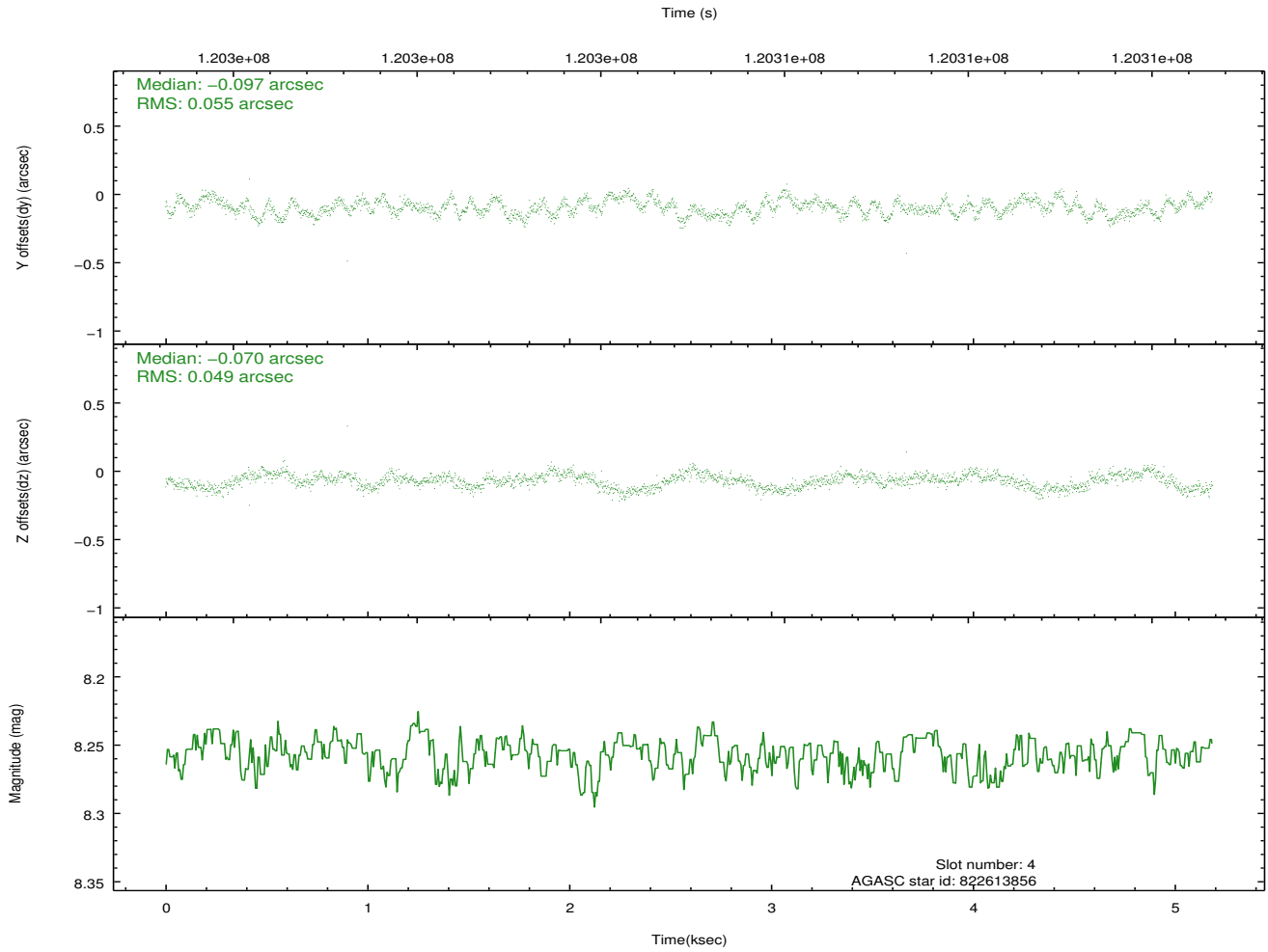
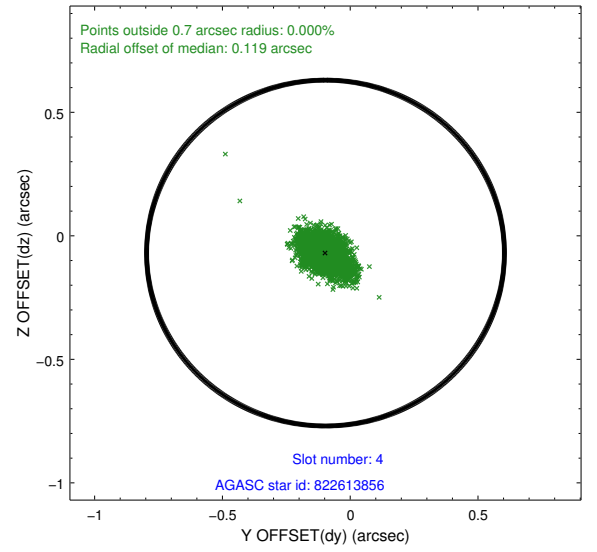
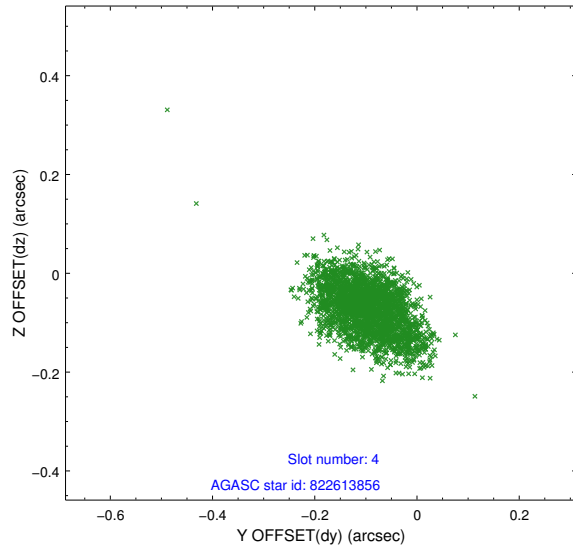
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1265	-0.000	-0.007	0.006	0.011	0.000000	0.000000	-755.96	-1729.44
1	FID	ACIS-S-4	7.19	1265	-0.031	0.002	0.006	0.010	0.000000	0.000000	2156.77	177.82
2	FID	ACIS-S-5	7.24	1265	0.000	0.014	0.007	0.012	0.000000	0.000000	-1807.29	172.86
3	GUIDE	896801648	7.58	2529	0.047	-0.110	0.084	0.137	270.982903	-22.837451	2029.60	-2178.36
4	GUIDE	822613856	8.26	2530	-0.097	-0.070	0.078	0.126	272.285326	-21.881164	-1309.27	2237.03
5	GUIDE	822616512	8.68	2529	-0.098	0.153	0.075	0.127	272.141985	-21.637253	-2201.46	1784.00
6	GUIDE	896805608	8.24	2530	0.198	0.125	0.055	0.088	271.958650	-22.879833	2254.22	1055.32
7	GUIDE	820908040	8.97	2529	-0.050	-0.095	0.083	0.129	270.888554	-22.202158	-262.32	-2448.23

## 2.4 Star Slots

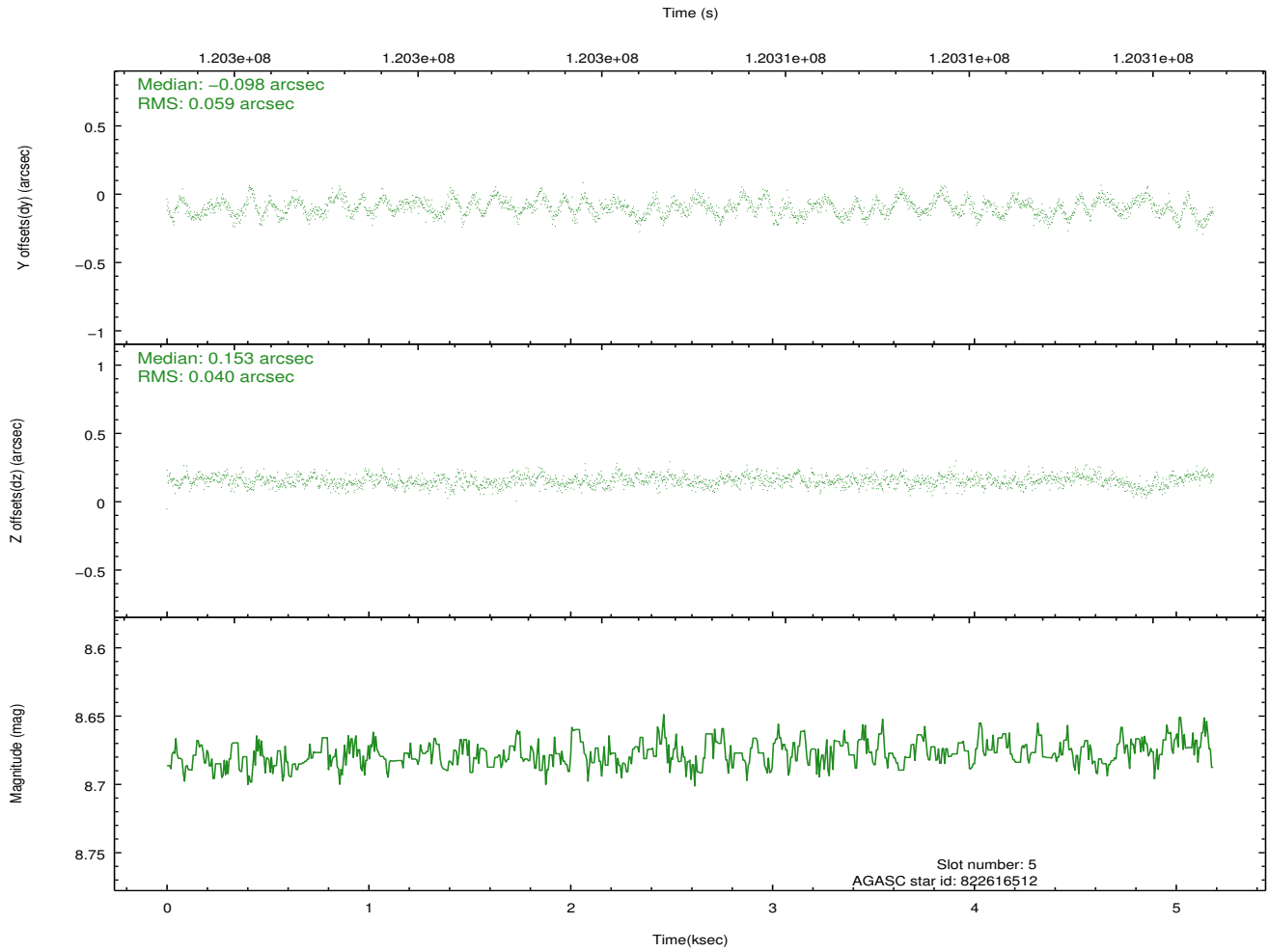
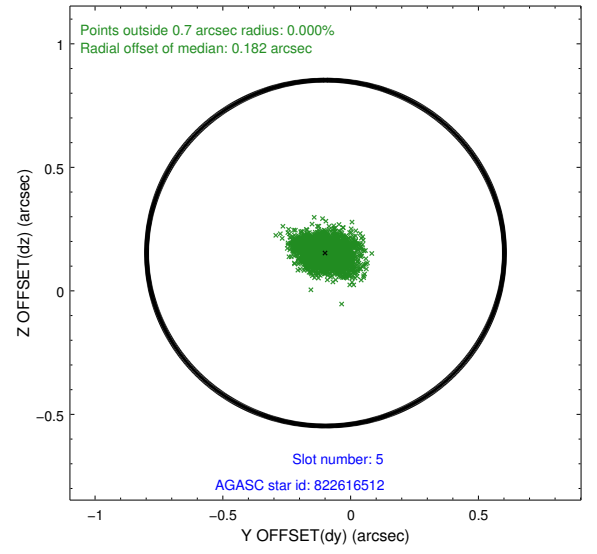
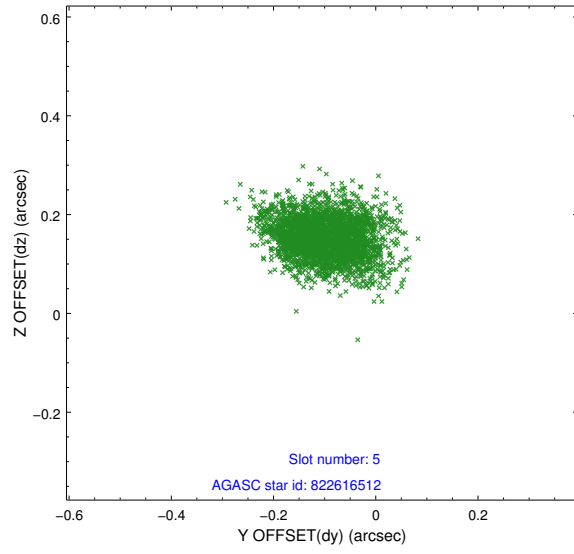
### 2.4.1 Slot 3



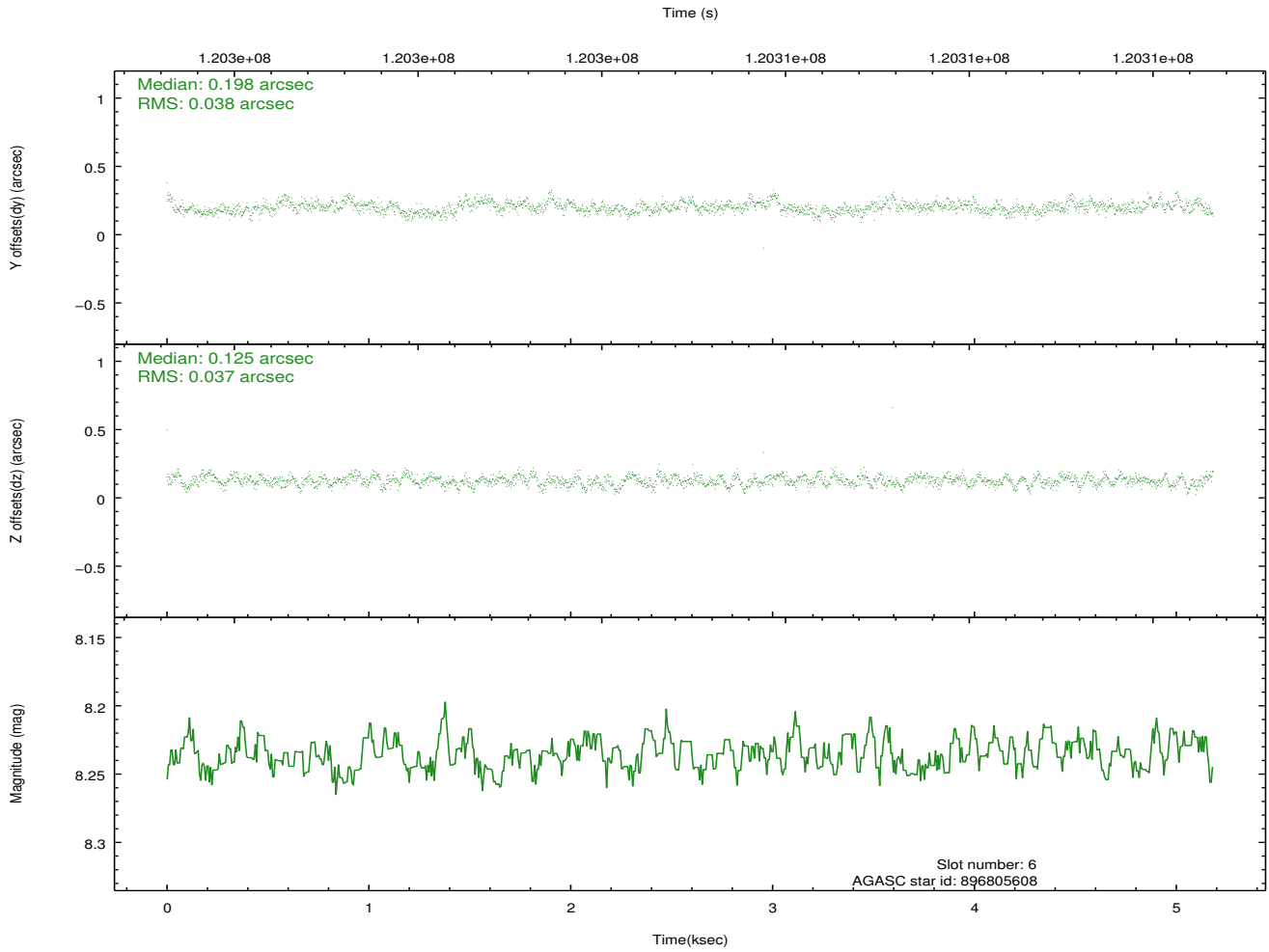
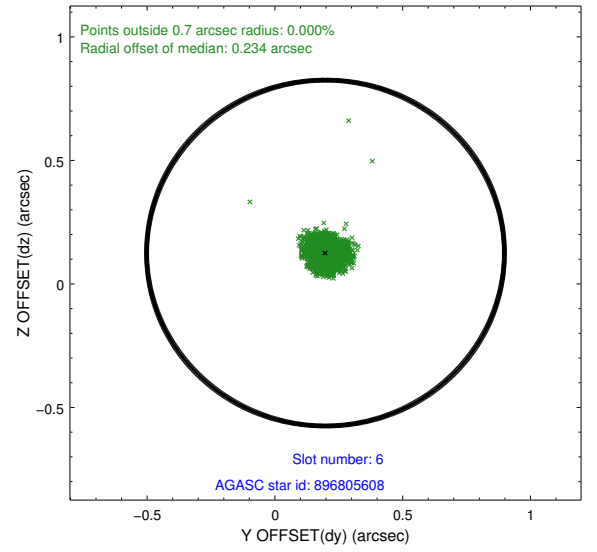
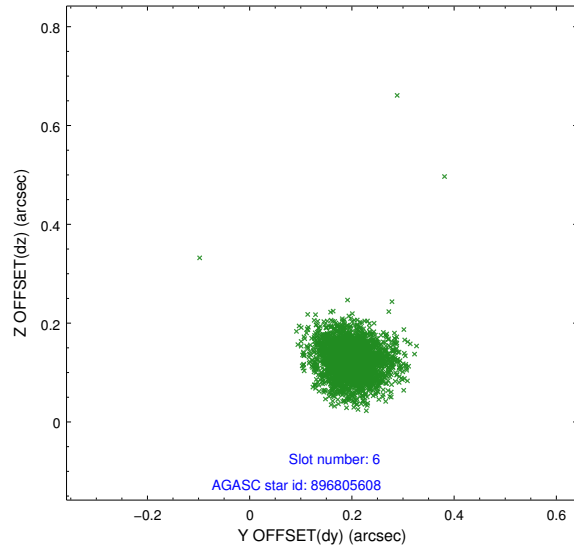
## 2.4.2 Slot 4



### 2.4.3 Slot 5

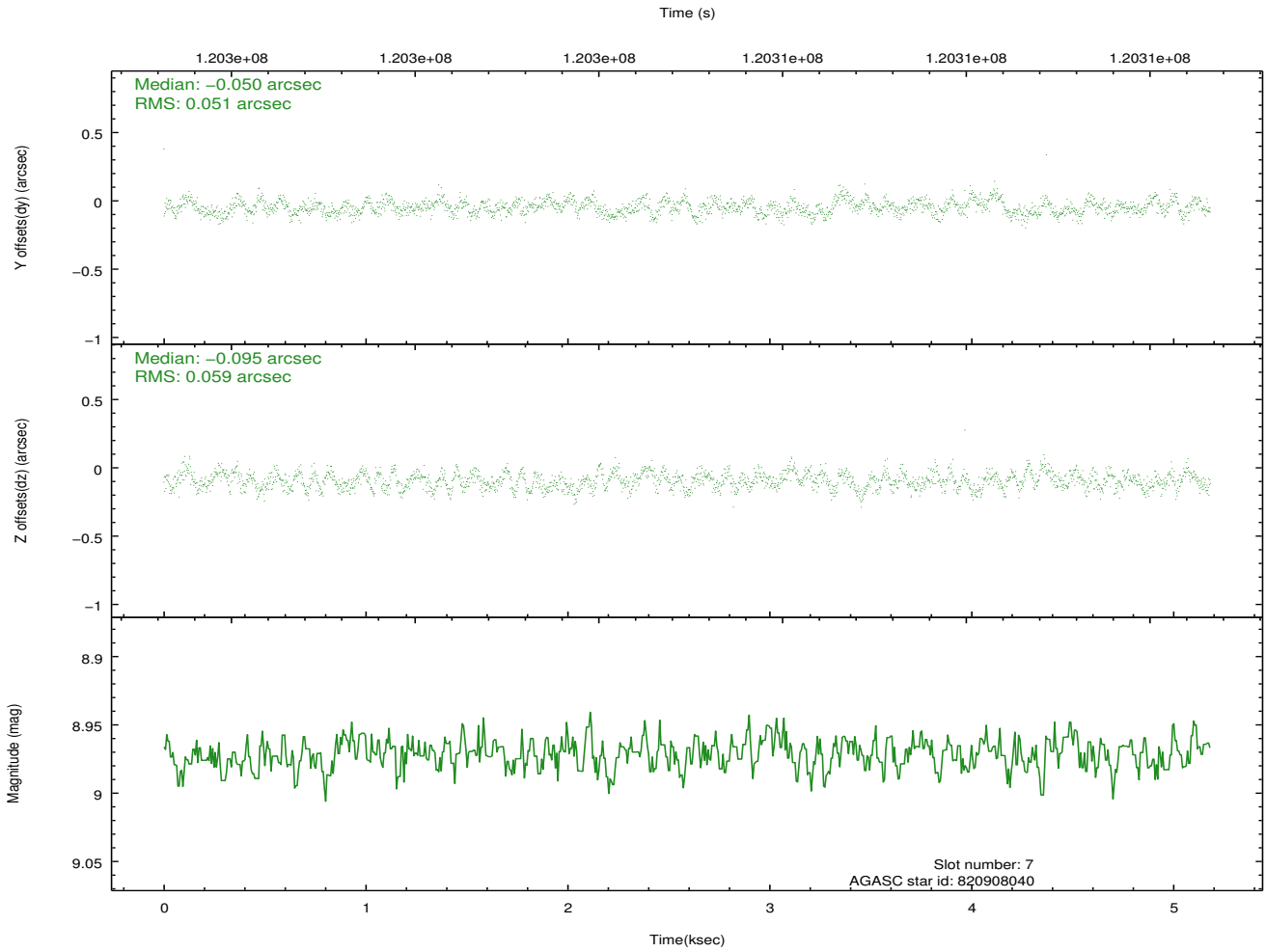
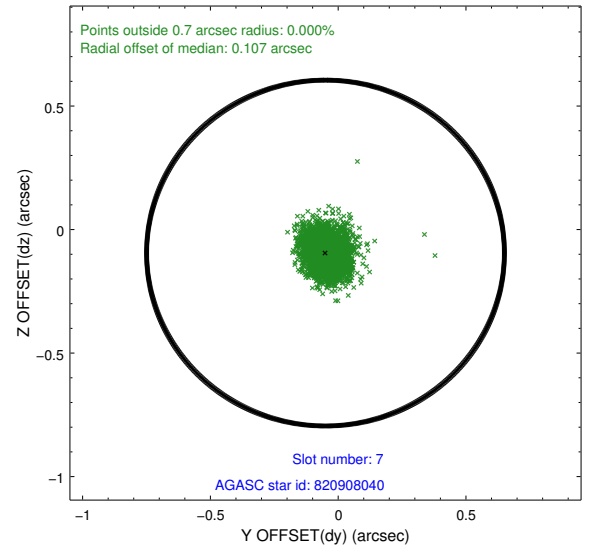
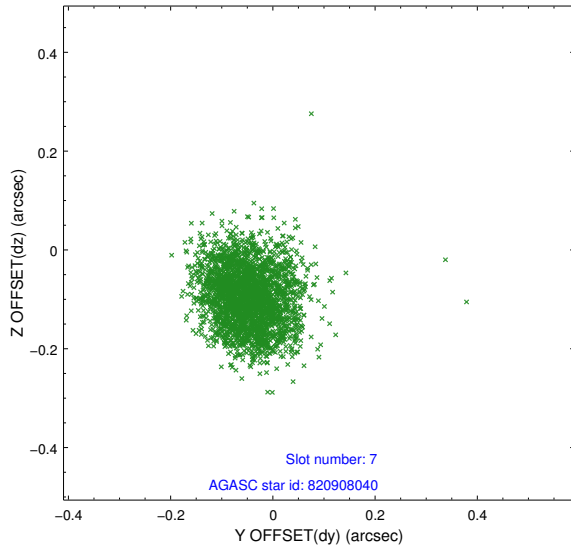


## 2.4.4 Slot 6



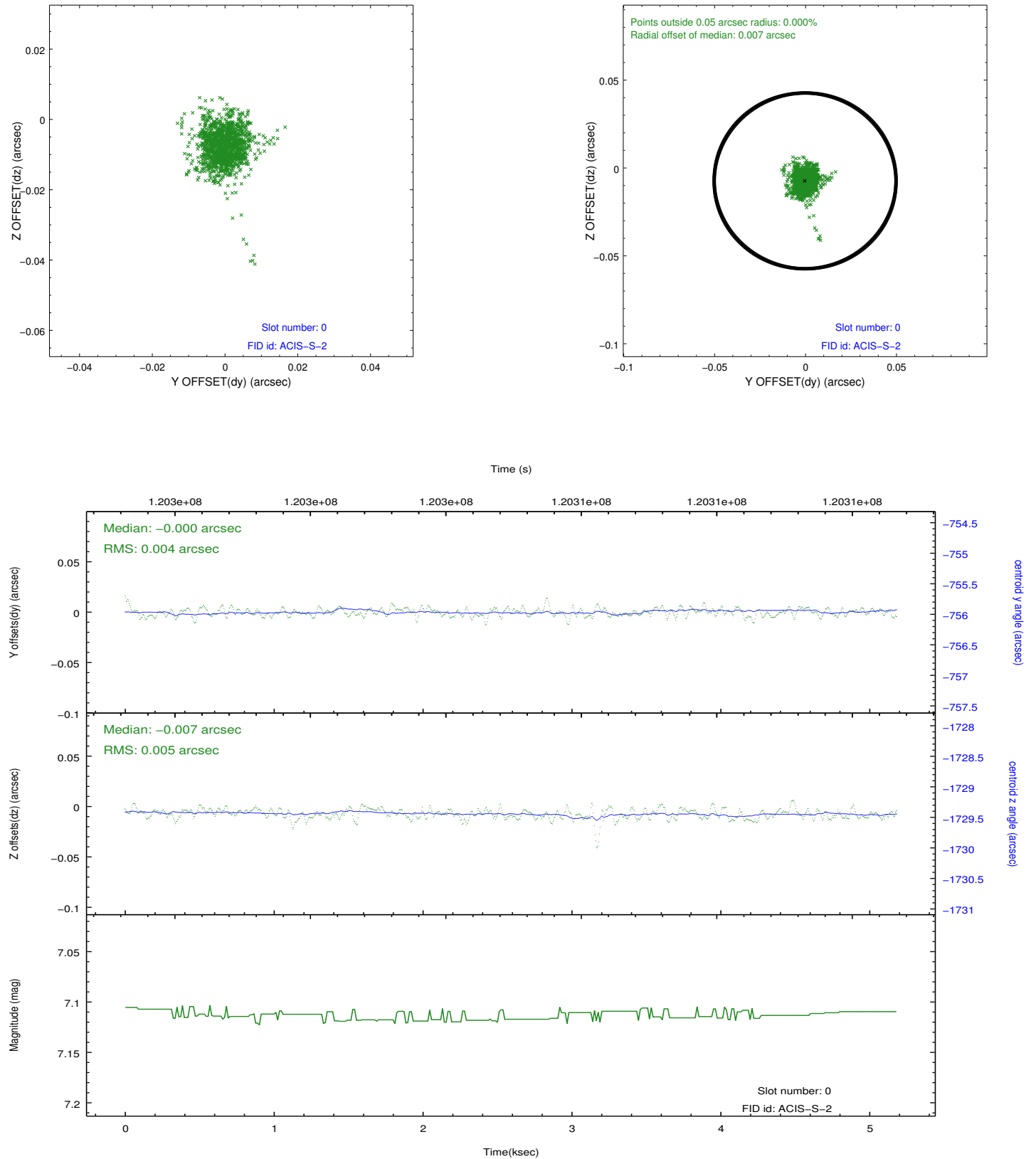


## 2.4.5 Slot 7

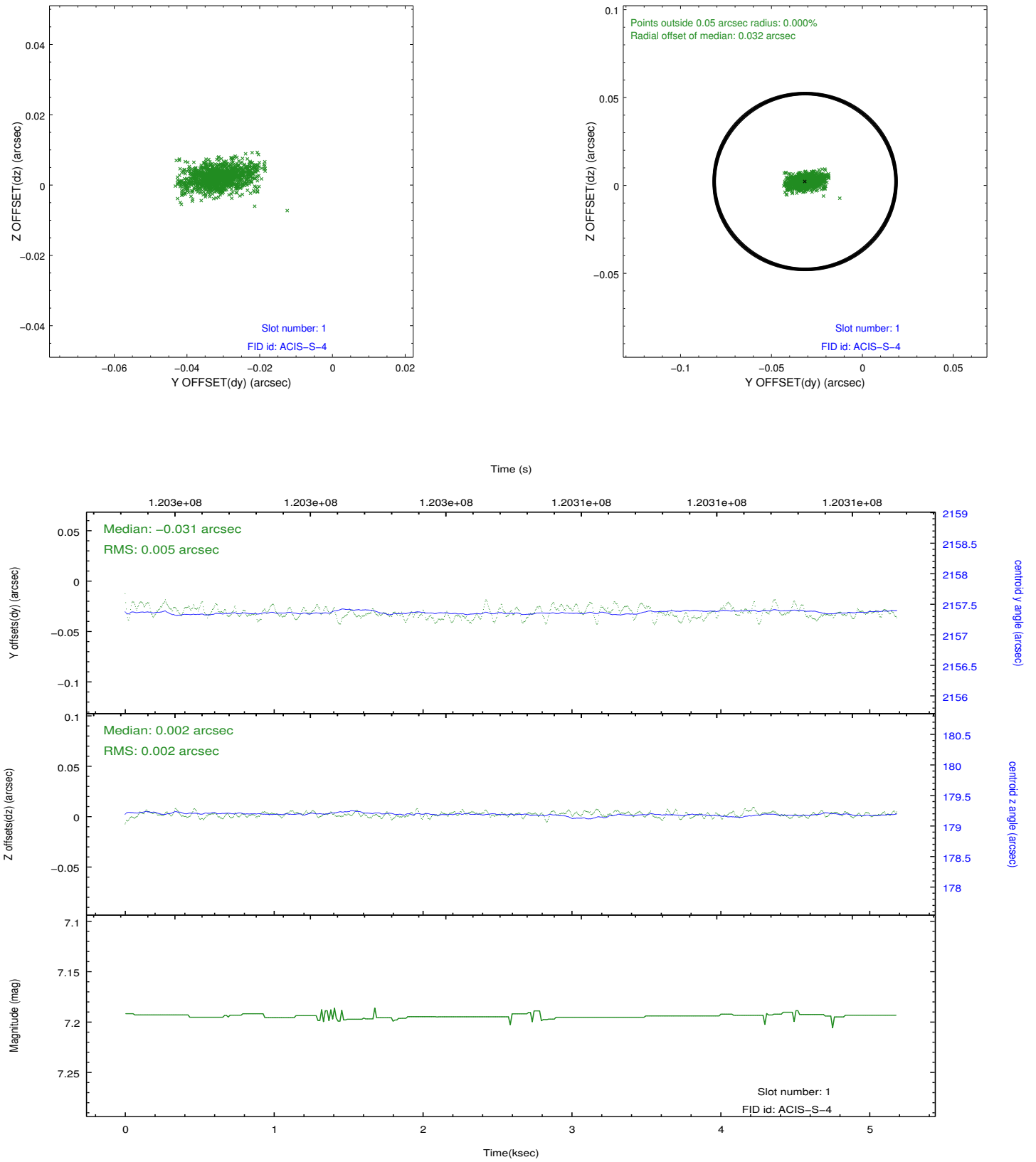


## 2.5 FID Slots

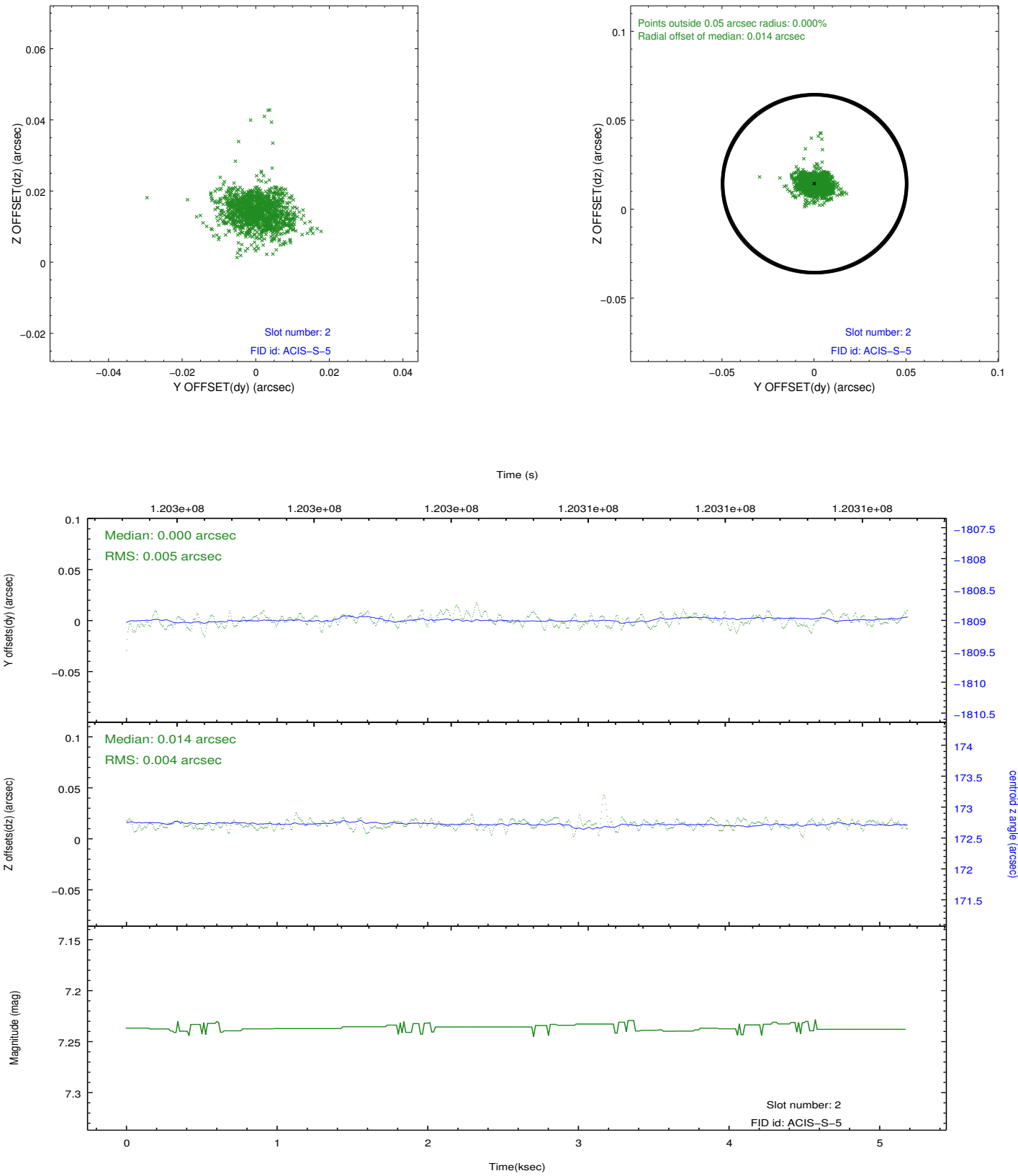
### 2.5.1 Slot 0



## 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)	2012.09.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.758

### A.2 Comments