

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4833 - L2 Version 3  
Chandra X-Ray Center

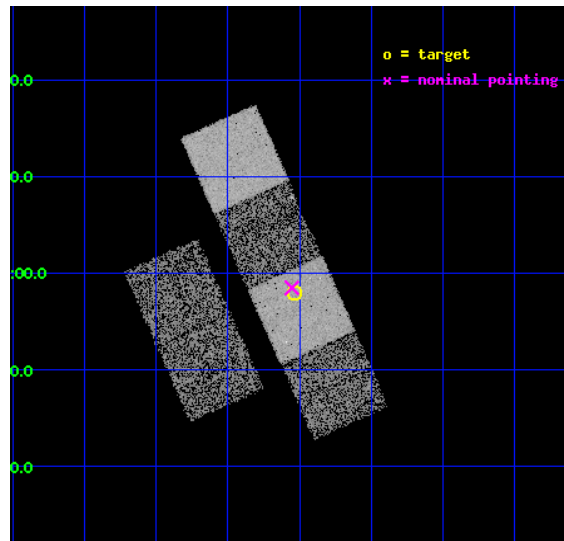
L2 Processing Date : Nov 11 2012

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# 1 Front

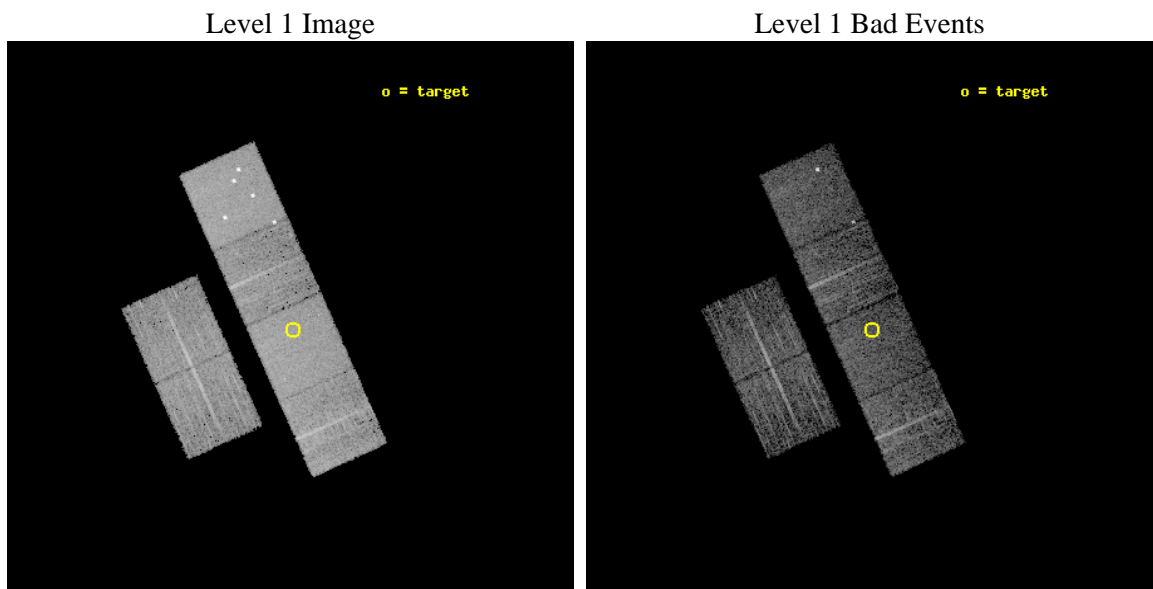
seq_num	700915	Sequence number
obs_id	4833	Observation id
title	Constraining the Hard-X-ray Through Submm SEDs of a Complete Sample of Broad Absorption Line Quasars	Proposal title
observer	Dr. Sarah Gallagher	Principal investigator
object	LBQS 1133+0214	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	174.132917	Observer's specified target RA [deg]
dec_targ	1.966722	Observer's specified target Dec [deg]
ra_nom	174.13840295326	Nominal RA [deg]
dec_nom	1.9747874276579	Nominal Dec [deg]
roll_nom	65.888831800587	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5979.8717452586	Sum of GTIs [s]
livetime	5904.1510085736	Livetime [s]
ontime2	5979.9127852619	Sum of GTIs [s]
ontime3	5979.7486252487	Sum of GTIs [s]
ontime5	5979.8307052553	Sum of GTIs [s]
ontime6	5979.789665252	Sum of GTIs [s]
ontime7	5979.8717452586	Sum of GTIs [s]
ontime8	5979.7075852752	Sum of GTIs [s]
l2events	64049	Number of level 2 events



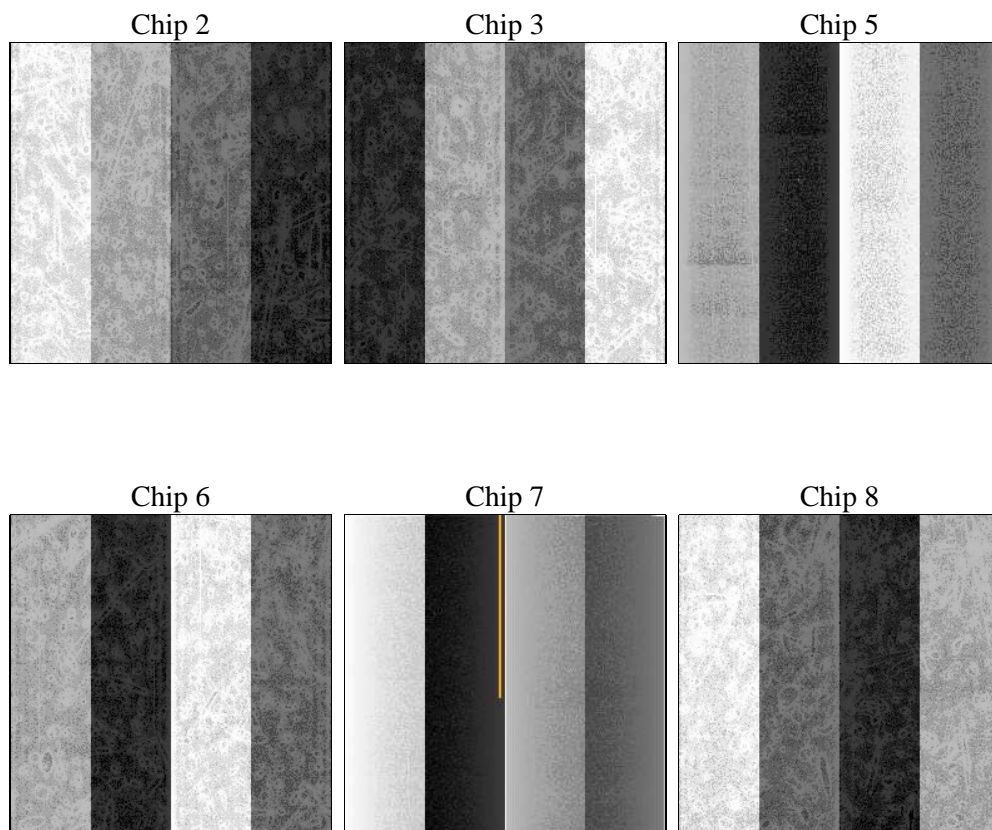
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6019.994000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5979.8717452586	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	5979.9127852619	Sum of GTIs [s]
date	2012-11-11T23:31:22	Date and time of file creation	ontime3	5979.7486252487	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5979.8307052553	Sum of GTIs [s]
			ontime6	5979.789665252	Sum of GTIs [s]
			ontime7	5979.8717452586	Sum of GTIs [s]
			ontime8	5979.7075852752	Sum of GTIs [s]
			l1events	278824	Number of level 1 events

### 2.1.4 Events

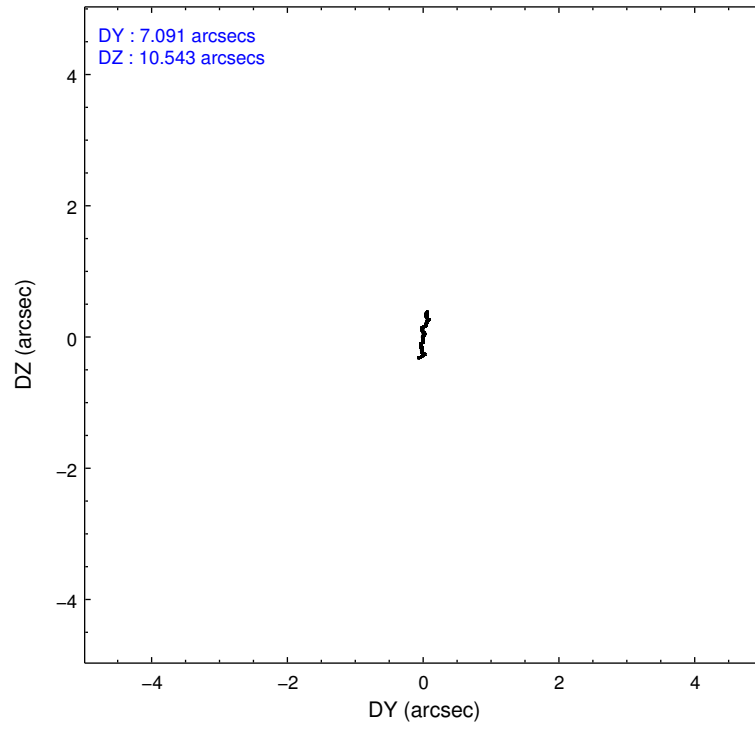
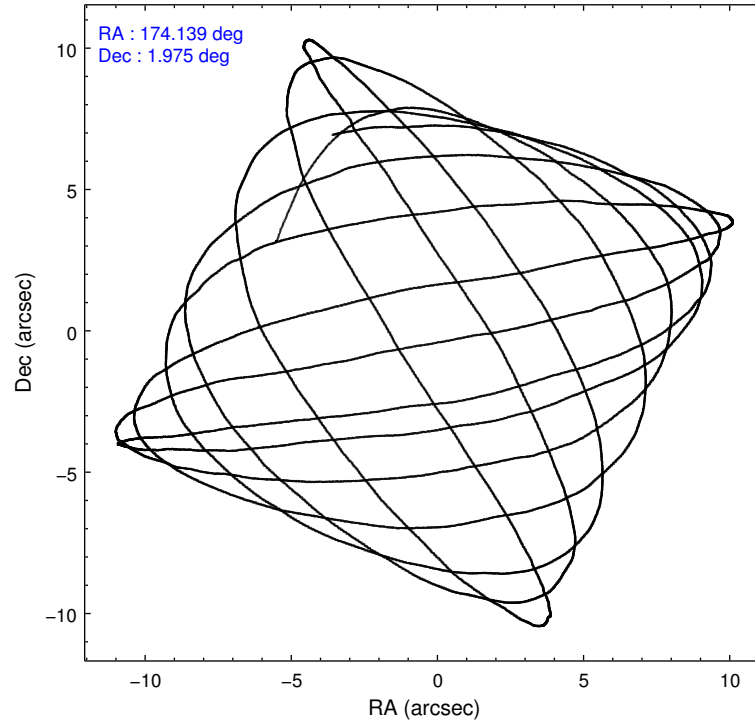
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	37918	37890	64078	37841	52867	48230	grade 0 events	2332	2136	7526	2020	2073	3384
rejected events	32926	33279	32043	32973	30492	37776		6%	5%	11%	5%	3%	7%
rejected %	86%	87%	50%	87%	57%	78%	grade 1 events	28	28	318	16	48	13
								0%	0%	0%	0%	0%	0%
							grade 2 events	958	863	8226	1014	4323	2314
								2%	2%	12%	2%	8%	4%
							grade 3 events	459	461	1164	445	1947	1094
								1%	1%	1%	1%	3%	2%
							grade 4 events	438	423	968	445	2021	1026
								1%	1%	1%	1%	3%	2%
							grade 5 events	1524	1704	4156	1717	4990	2269
								4%	4%	6%	4%	9%	4%
							grade 6 events	809	731	14184	950	12029	2640
								2%	1%	22%	2%	22%	5%
							grade 7 events	31370	31544	27536	31234	25436	35490
								82%	83%	42%	82%	48%	73%

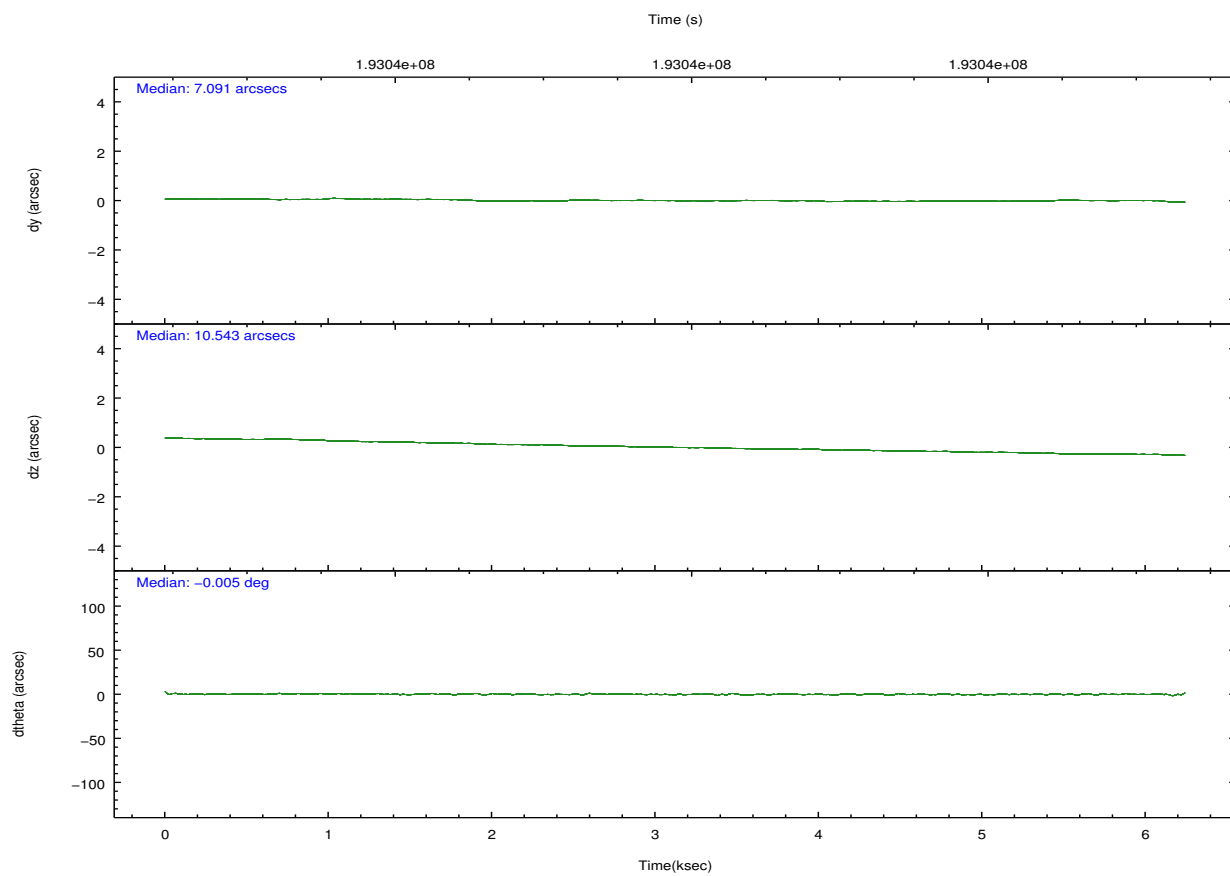
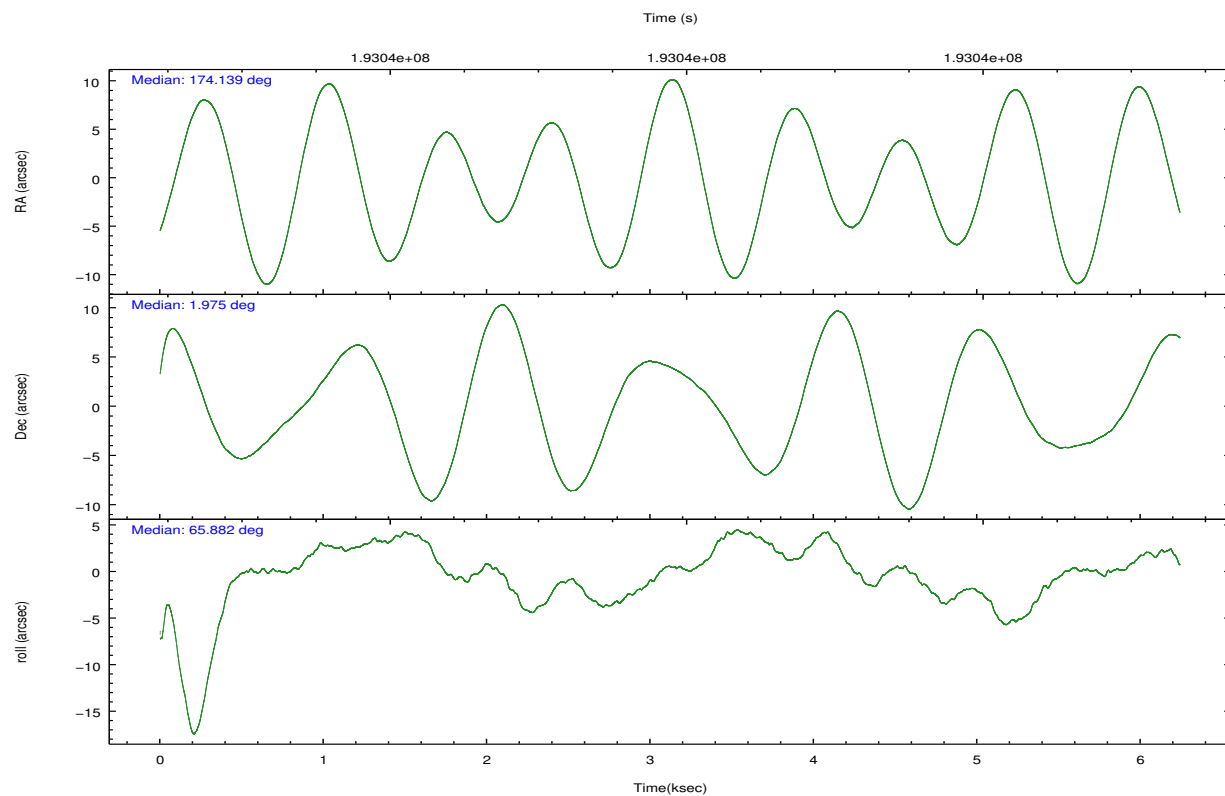


## 2.2 Compared Parameters

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	174.141519	174.1384029532635	Subarray requested	NONE	NONE
[deg] Pointing Dec	1.947678	1.974787427657911	Alternating exposures requested	N	N
[deg] Pointing Roll	65.732100	65.88883180058725	[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)	193036992.184000	193036011.53584			
Observation start date	2004-02-13T05:22:08	2004-02-13T05:06:51			
[s] Observation end time (MET)	193043012.184000	193043326.96116			
Observation end date	2004-02-13T07:02:28	2004-02-13T07:08:46			
Read mode	TIMED	TIMED			

## 2.3 Aspect



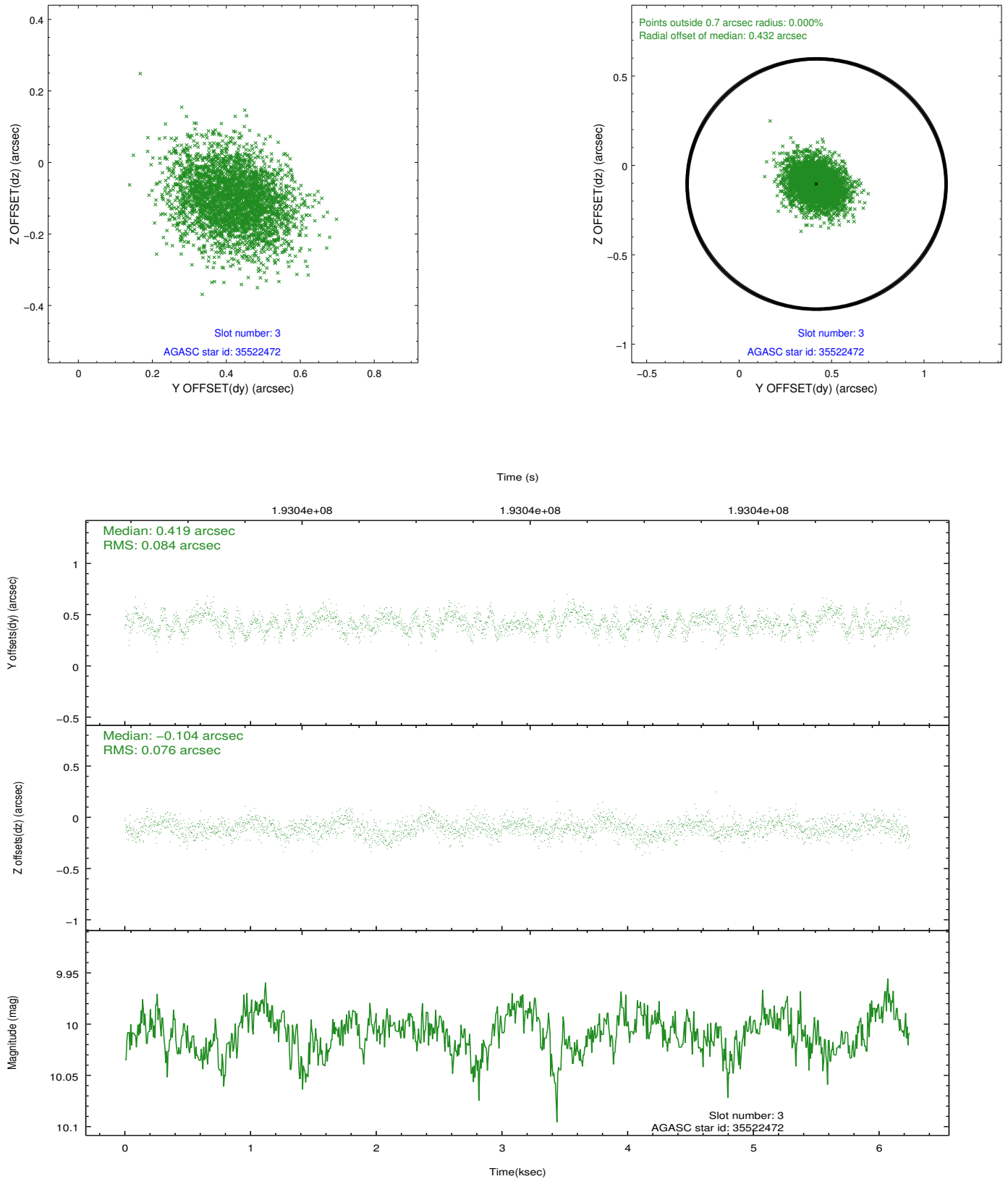


### Slot Statistics

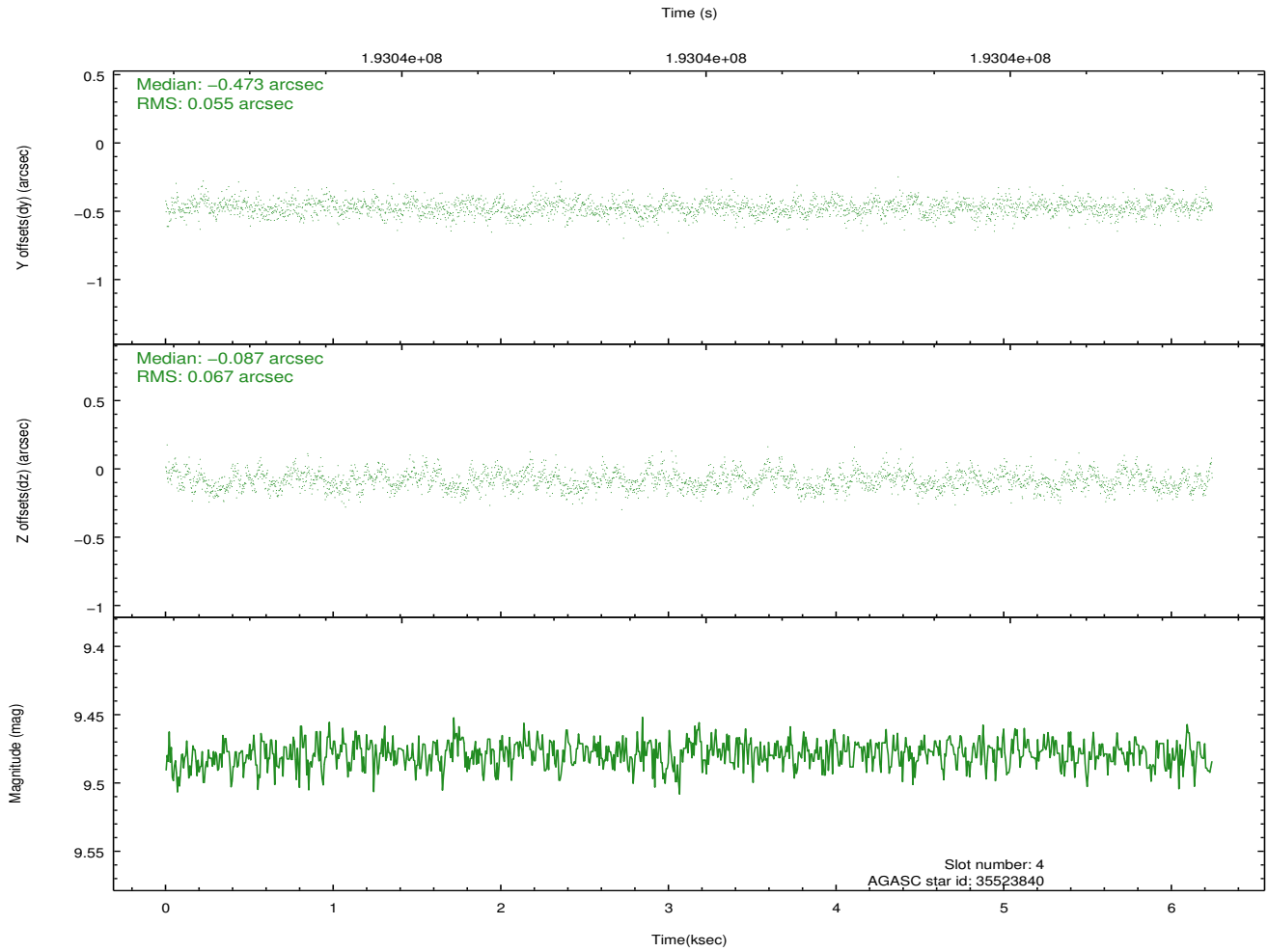
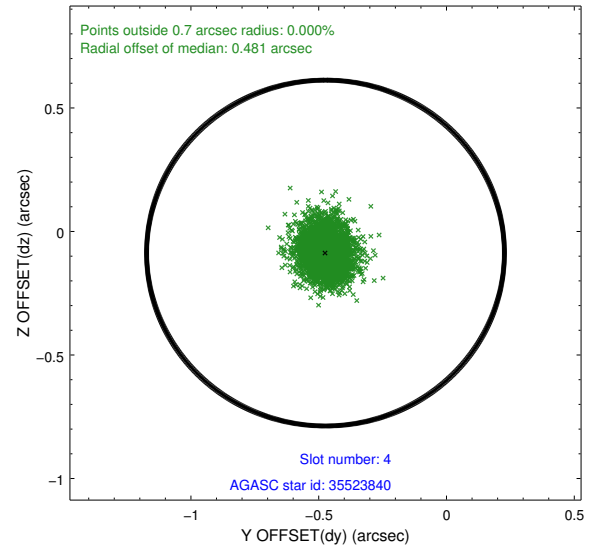
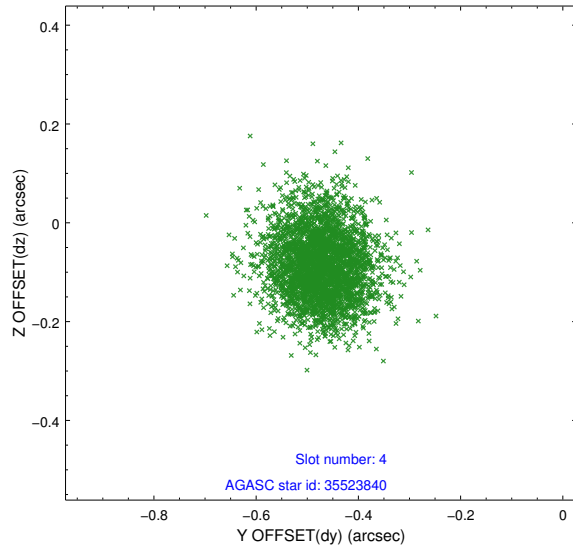
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1522	-0.046	-0.006	0.007	0.012	0.000000	0.000000	-759.87	-1731.84
1	FID	ACIS-S-4	7.20	1522	0.060	0.024	0.006	0.011	0.000000	0.000000	2153.05	175.75
2	FID	ACIS-S-5	7.23	1523	-0.045	-0.009	0.007	0.012	0.000000	0.000000	-1811.53	170.39
3	GUIDE	35522472	10.01	3042	0.419	-0.104	0.121	0.194	173.454354	1.752244	-1657.06	1965.29
4	GUIDE	35523840	9.48	3042	-0.473	-0.087	0.092	0.151	173.688311	1.495853	-2154.17	819.07
5	GUIDE	35526016	9.88	3044	0.021	-0.030	0.111	0.180	174.604709	2.365238	2054.61	-900.37
6	GUIDE	35527256	9.41	3045	0.029	0.100	0.083	0.136	174.539165	1.926361	519.02	-1335.52
7	GUIDE	35527592	8.61	3045	0.007	0.123	0.071	0.109	174.333458	1.937422	250.48	-644.64

## 2.4 Star Slots

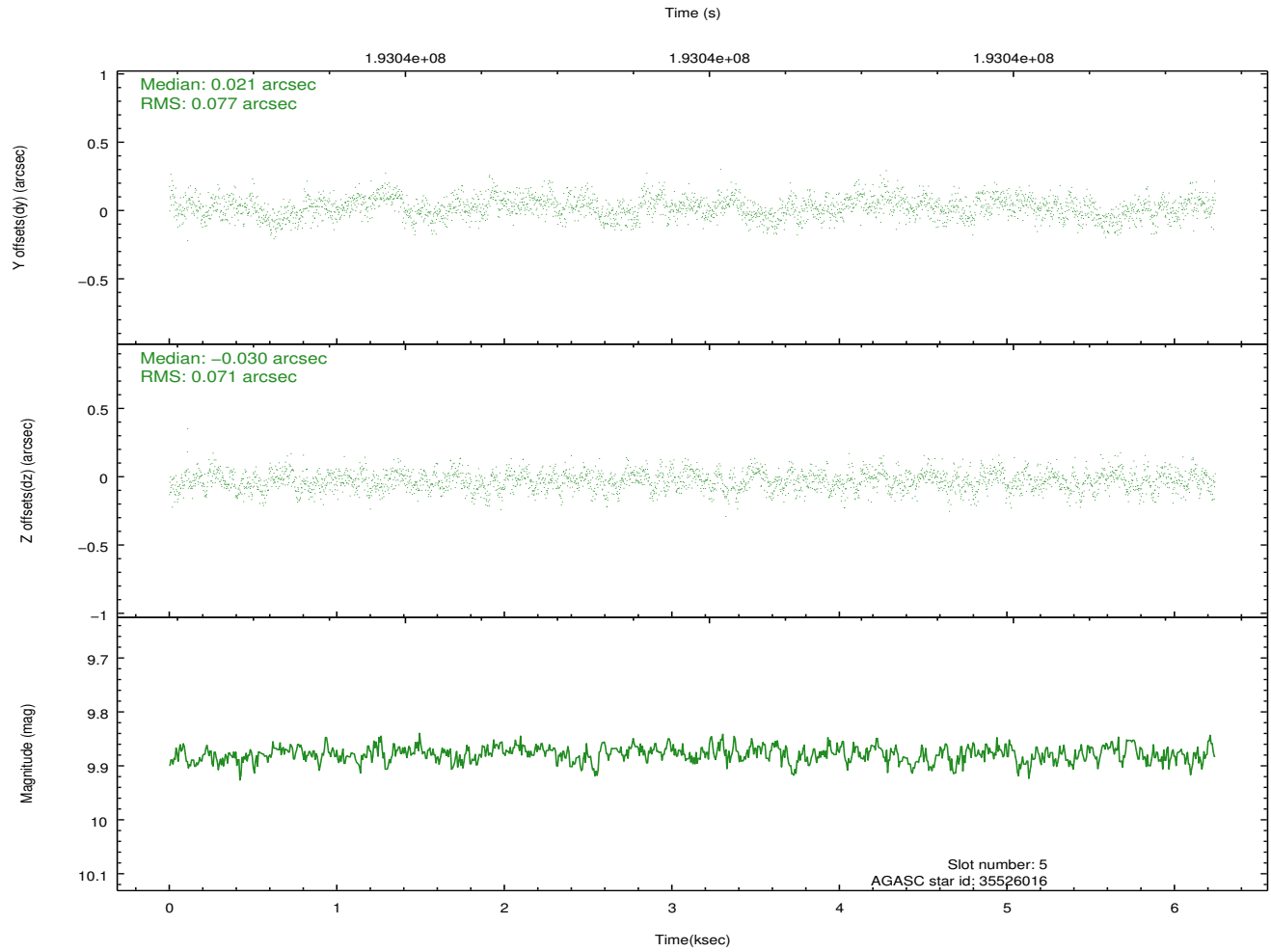
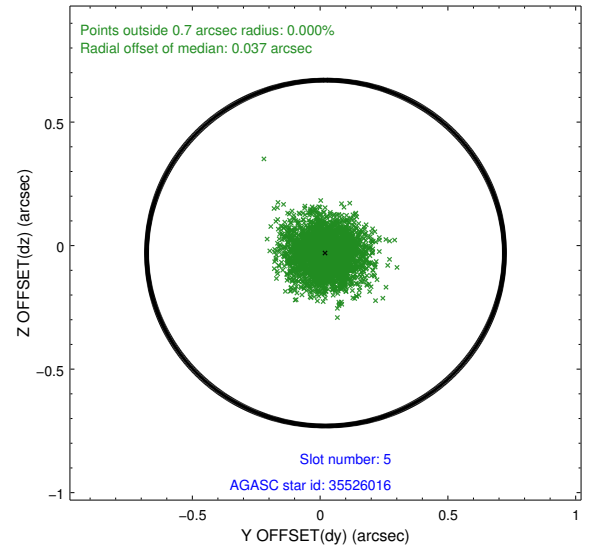
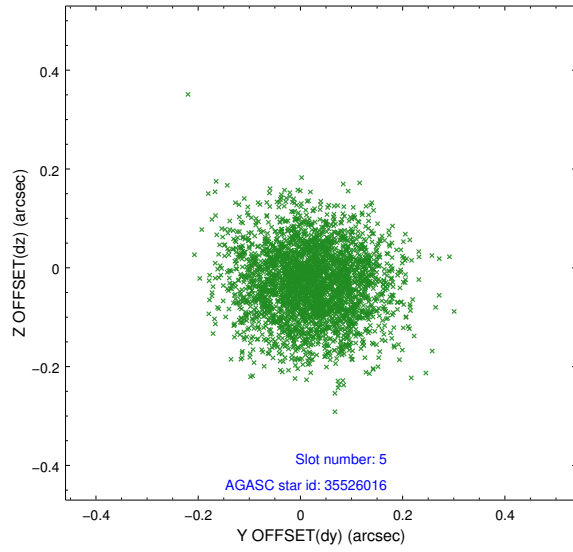
### 2.4.1 Slot 3



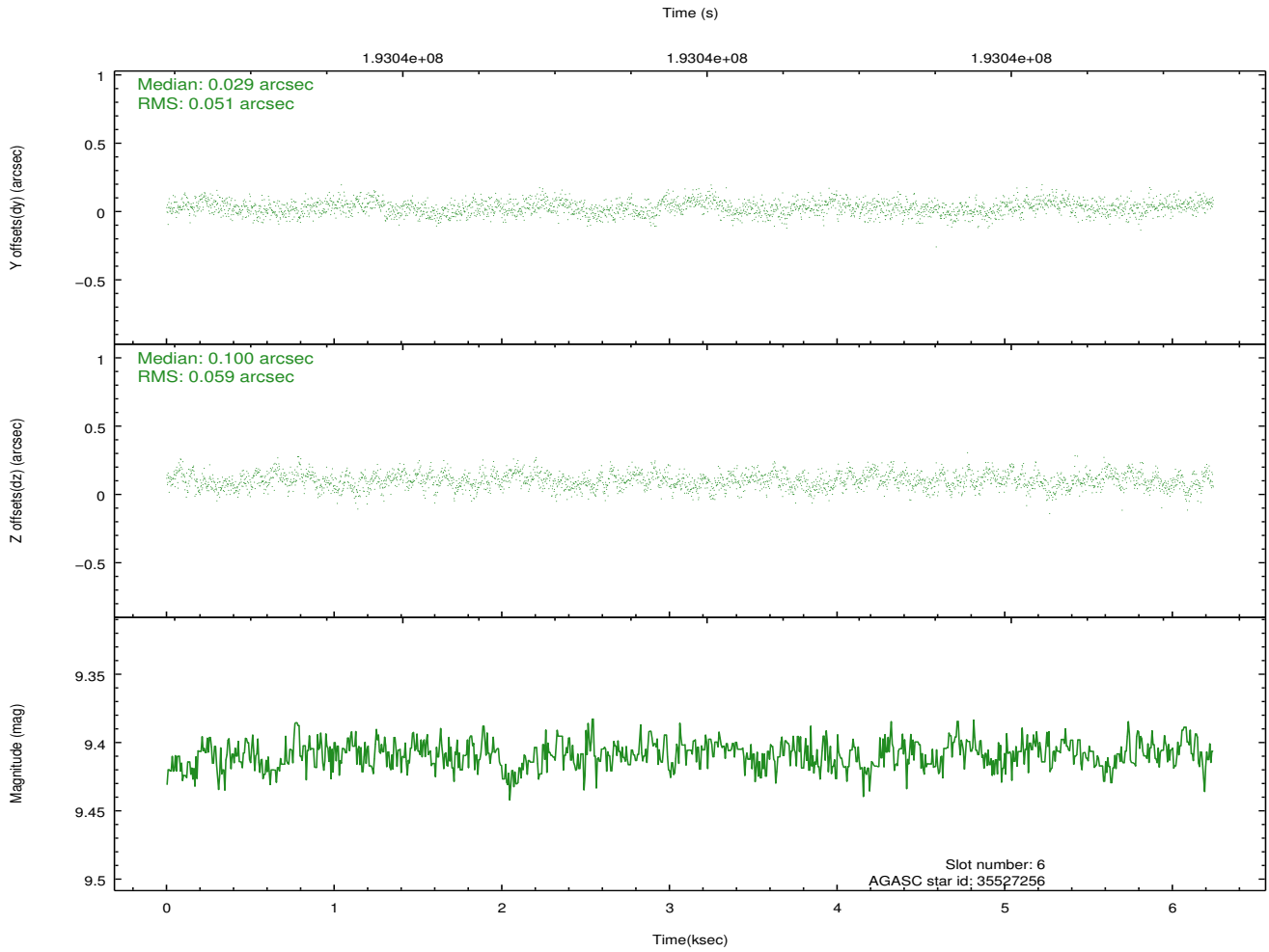
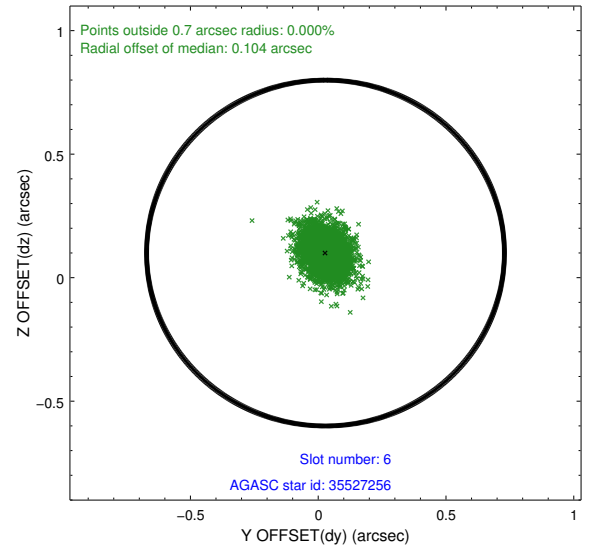
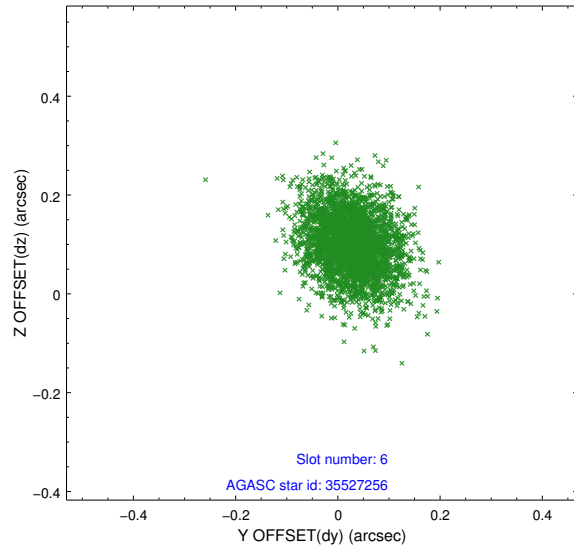
## 2.4.2 Slot 4



### 2.4.3 Slot 5

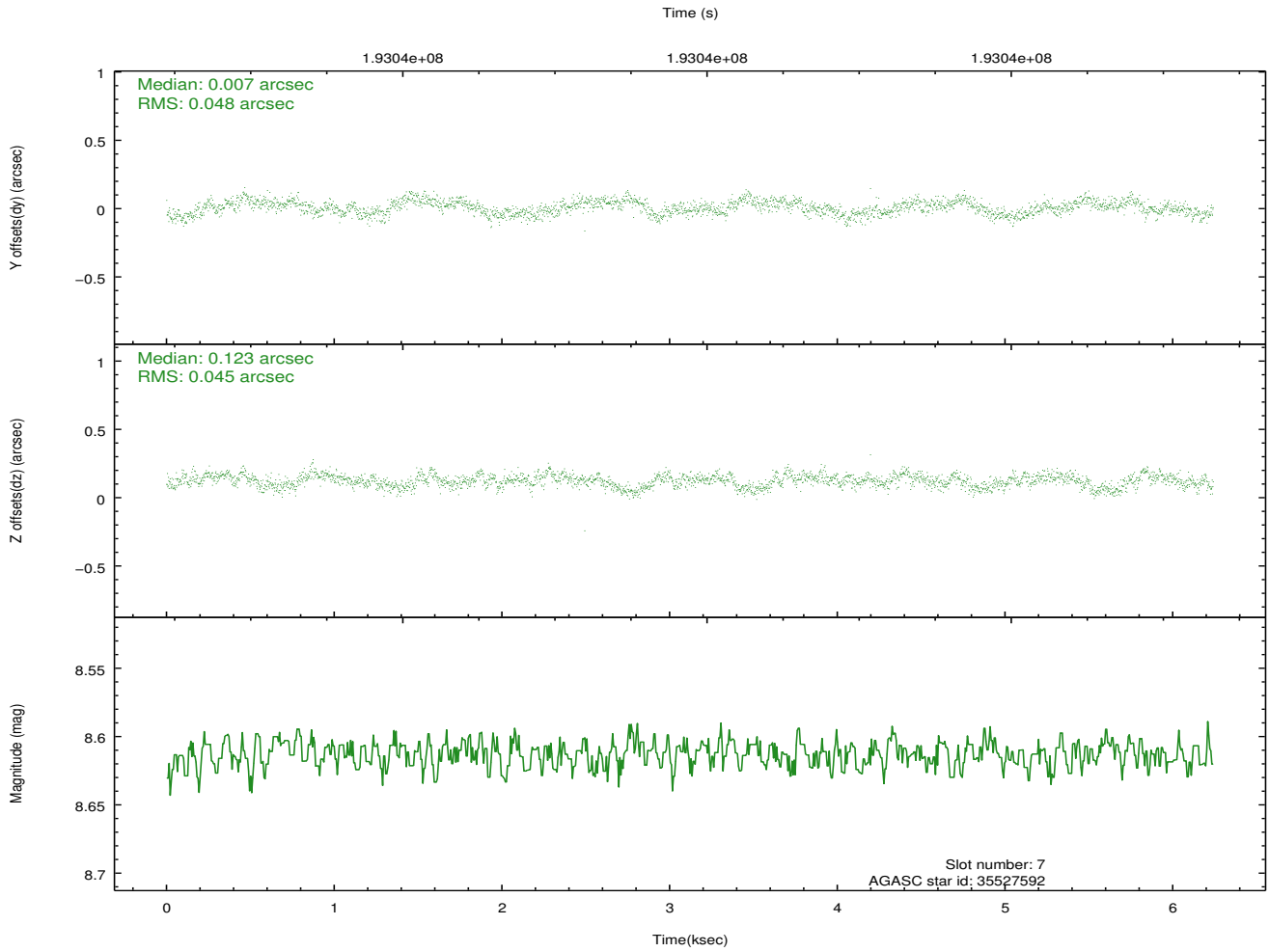
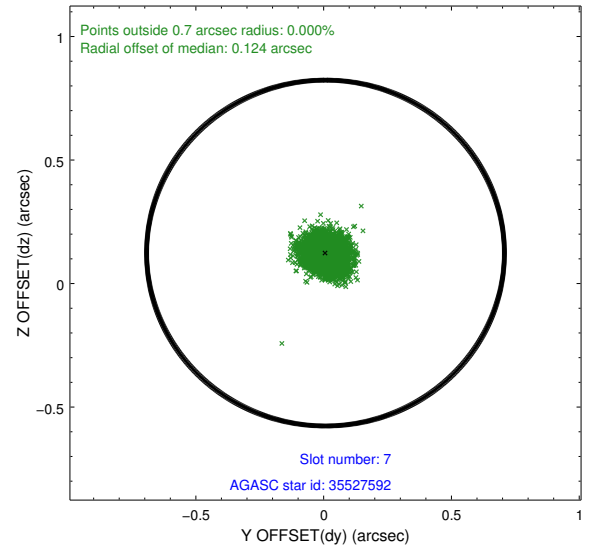
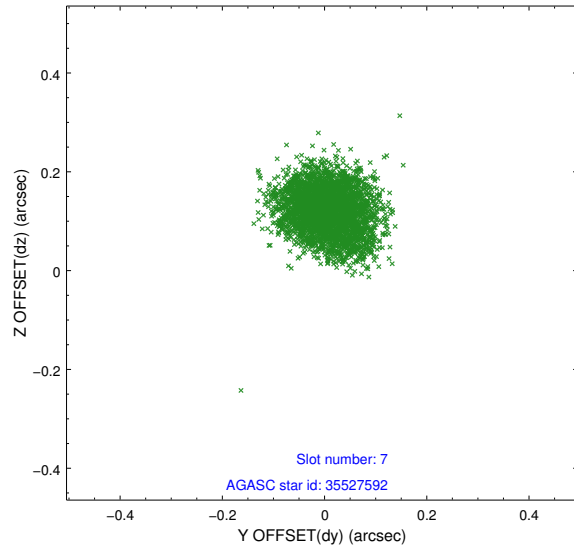


## 2.4.4 Slot 6



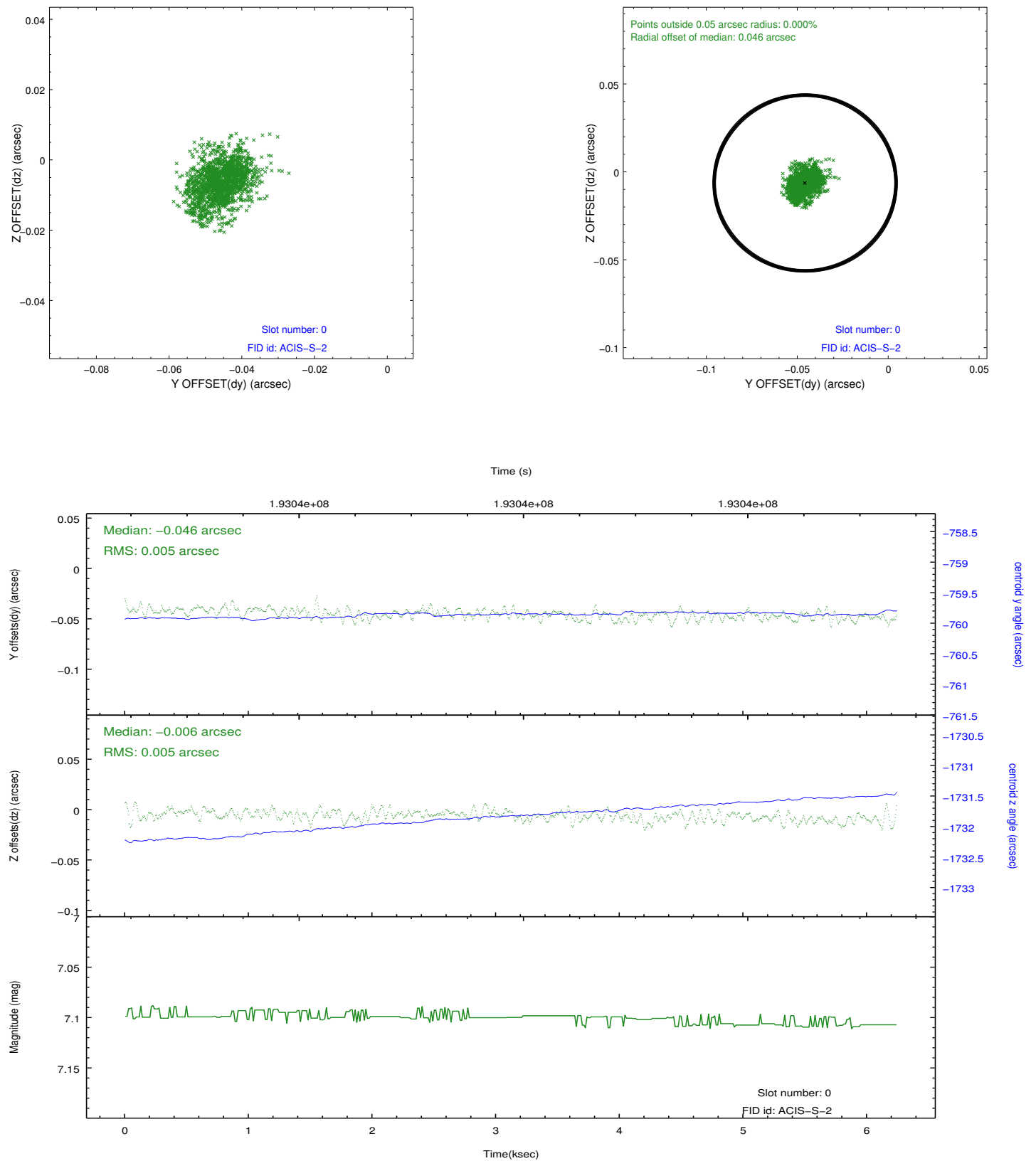


## 2.4.5 Slot 7

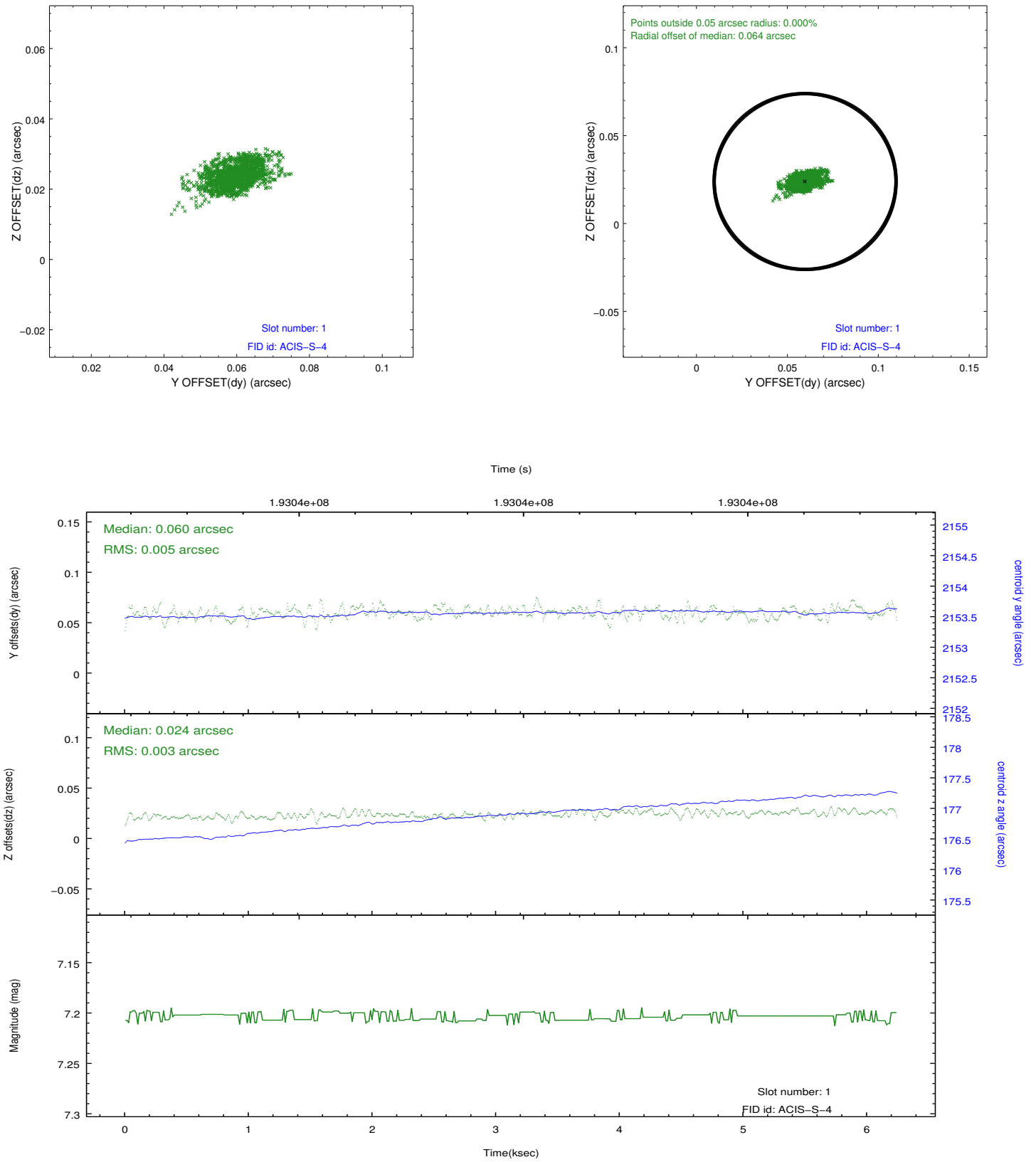


## 2.5 FID Slots

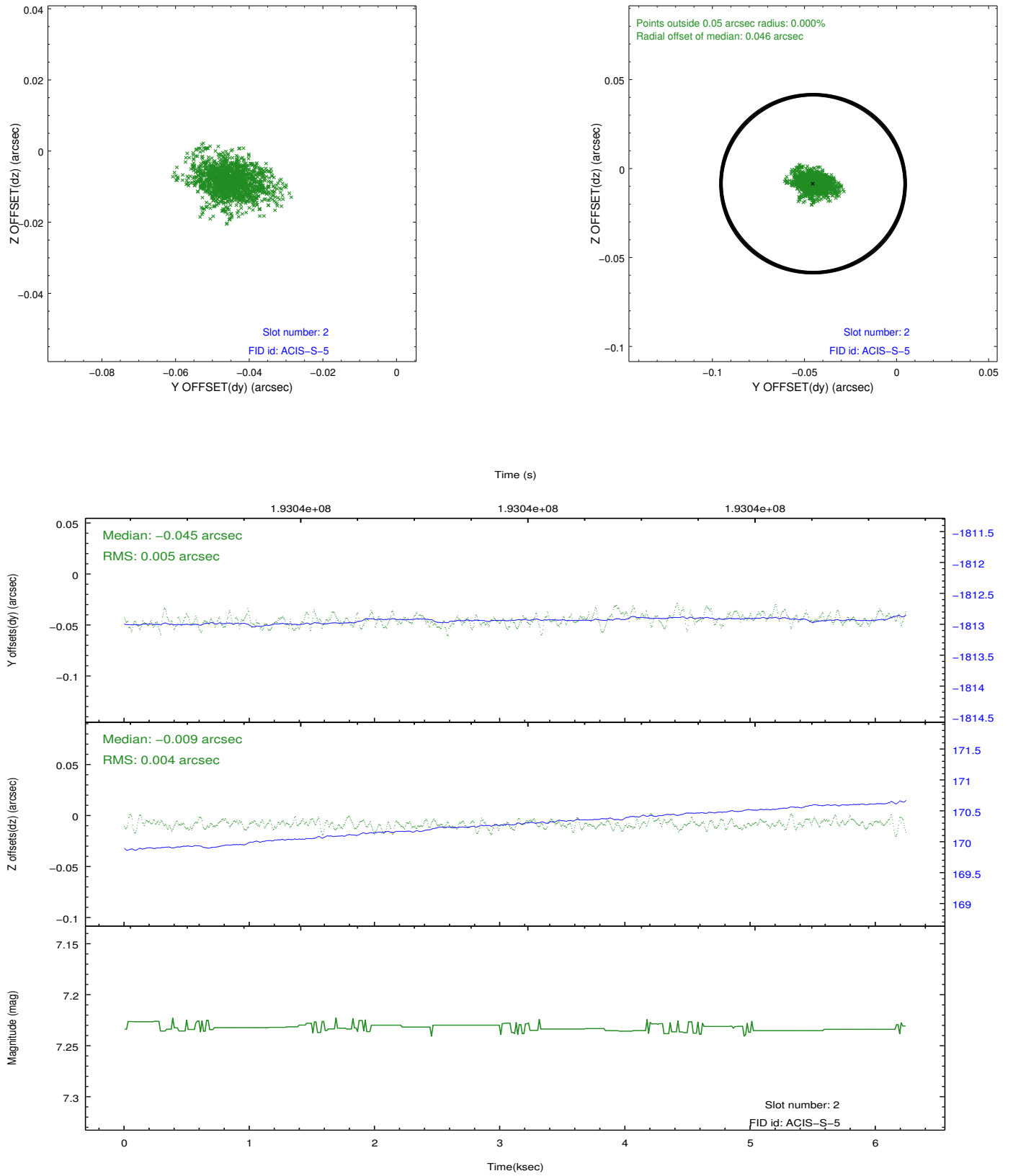
### 2.5.1 Slot 0



## 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)	2012.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.98

### A.2 Comments