

# V&V Reference Report

## L2 ASCDS Version : 10.5.2

Observation 19741 - L2 Version 1  
Chandra X-Ray Center

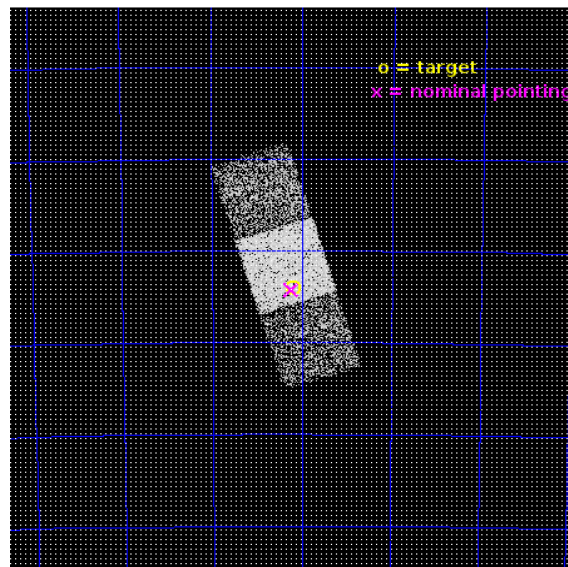
L2 Processing Date : Dec 29 2016

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# 1 Front

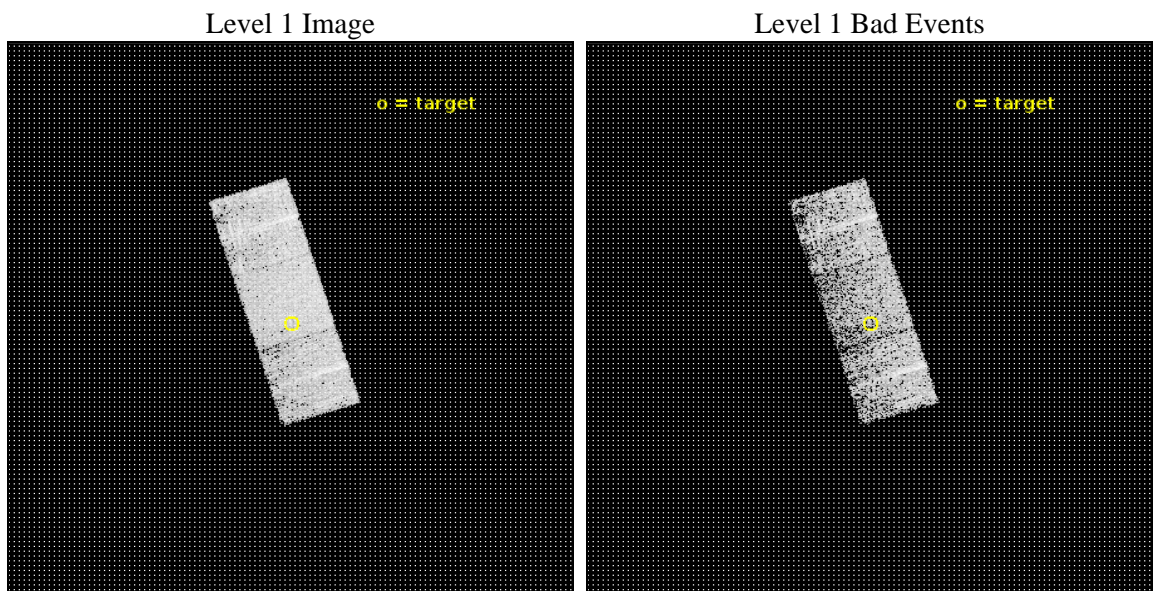
seq_num	703456	Sequence number
obs_id	19741	Observation id
title	A Chandra Snapshot Survey of Extraordinarily Luminous and Heavily Obscured Quasars from the WISE Survey	Proposal title
observer	Gordon Garmire	Principal investigator
object	W2246-7143	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	341.550417	Observer's specified target RA [deg]
dec_targ	-71.733694	Observer's specified target Dec [deg]
ra_nom	341.55903833728	Nominal RA [deg]
dec_nom	-71.737801764326	Nominal Dec [deg]
roll_nom	252.39941216152	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3111.8084814548	Sum of GTIs [s]
livetime	3071.1504127646	Livetime [s]
ontime6	3111.7674415112	Sum of GTIs [s]
ontime7	3111.8084814548	Sum of GTIs [s]
ontime8	3111.7264014482	Sum of GTIs [s]
l2events	16611	Number of level 2 events



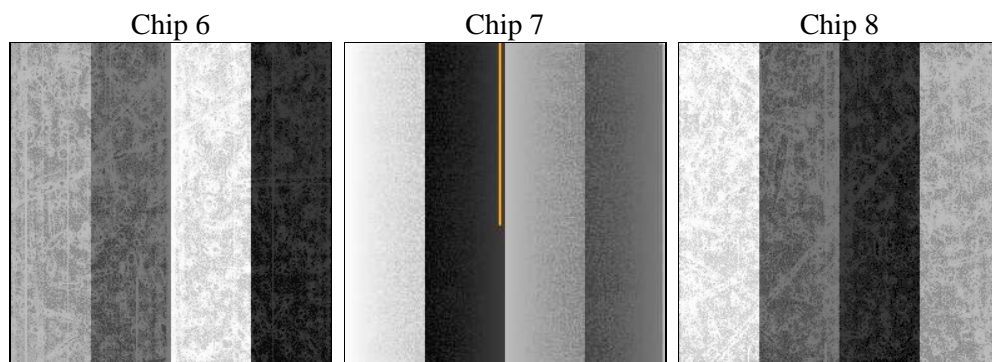
## 2 OBI

### 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	10.5.2	Processing system revision	ontime	3111.8084814548	Sum of GTIs [s]
caldsver	4.7.3	&#160	ontime6	3111.7674415112	Sum of GTIs [s]
date	2016-12-29T21:05:51	Date and time of file creation	ontime7	3111.8084814548	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3111.7264014482	Sum of GTIs [s]
			l1events	76591	Number of level 1 events

### 2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	22111	27305	27175
rejected events	19559	15230	20238
rejected %	88%	55%	74%

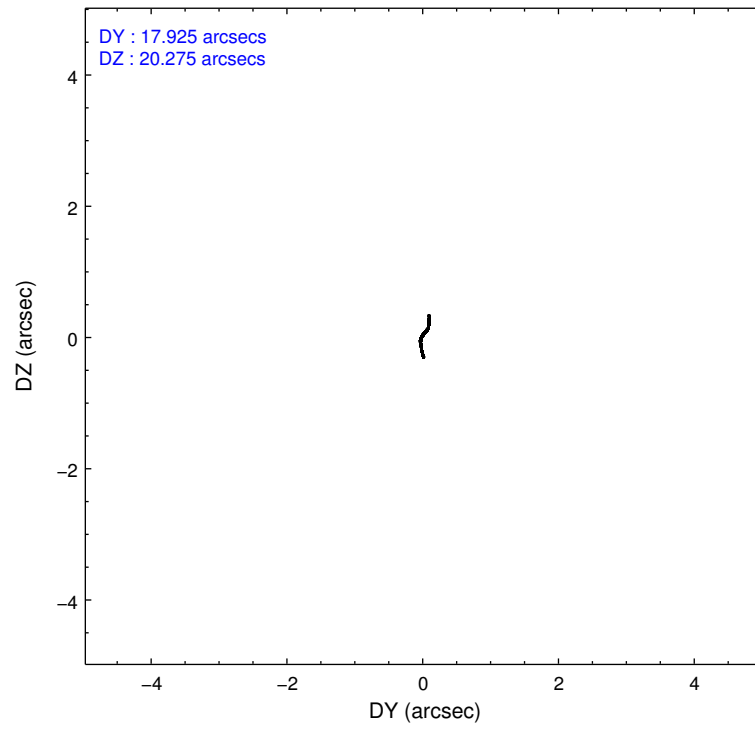
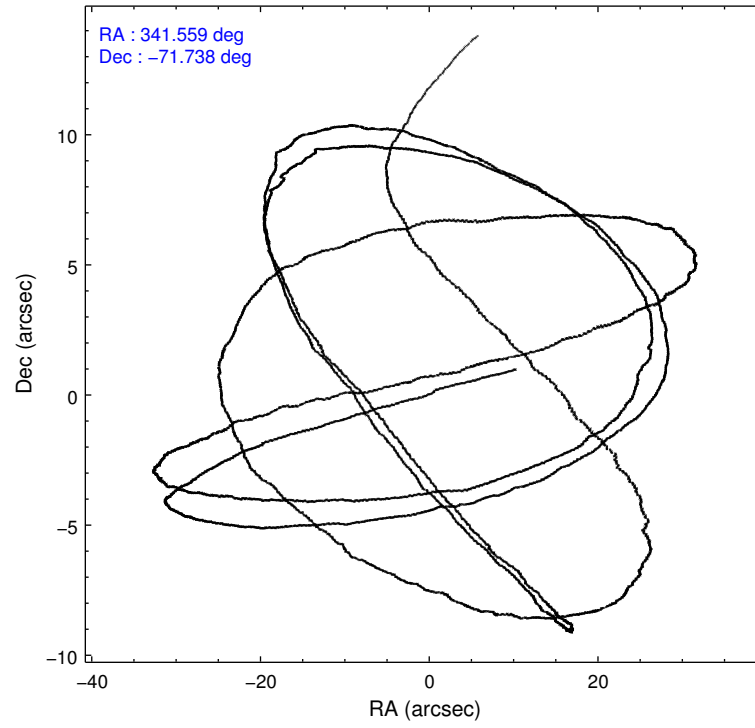
	ccd 6	ccd 7	ccd 8
grade 0 events	837	1014	1955
	3%	3%	7%
grade 1 events	12	40	20
	0%	0%	0%
grade 2 events	596	2577	1637
	2%	9%	6%
grade 3 events	265	928	747
	1%	3%	2%
grade 4 events	240	917	682
	1%	3%	2%
grade 5 events	956	2635	1391
	4%	9%	5%
grade 6 events	617	6649	1920
	2%	24%	7%
grade 7 events	18588	12545	18823
	84%	45%	69%

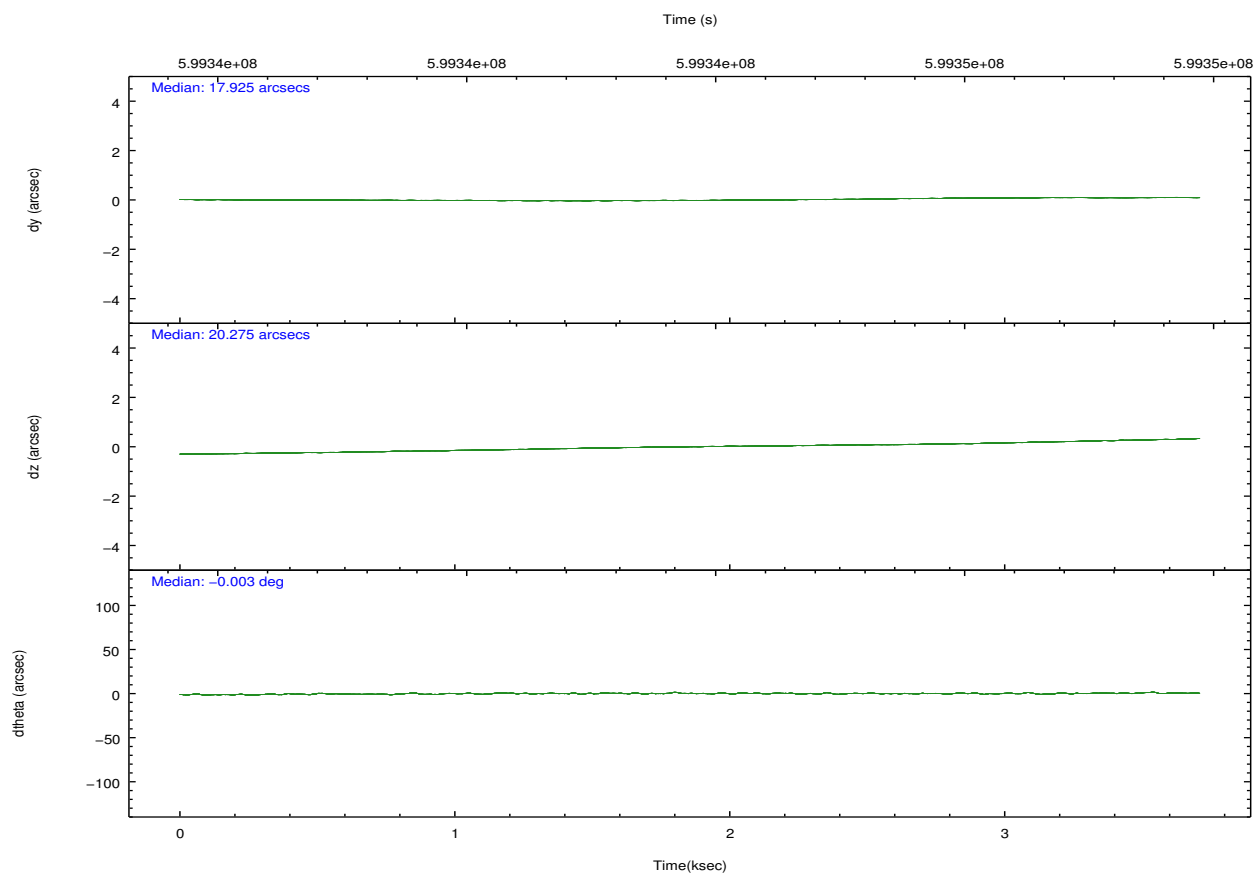
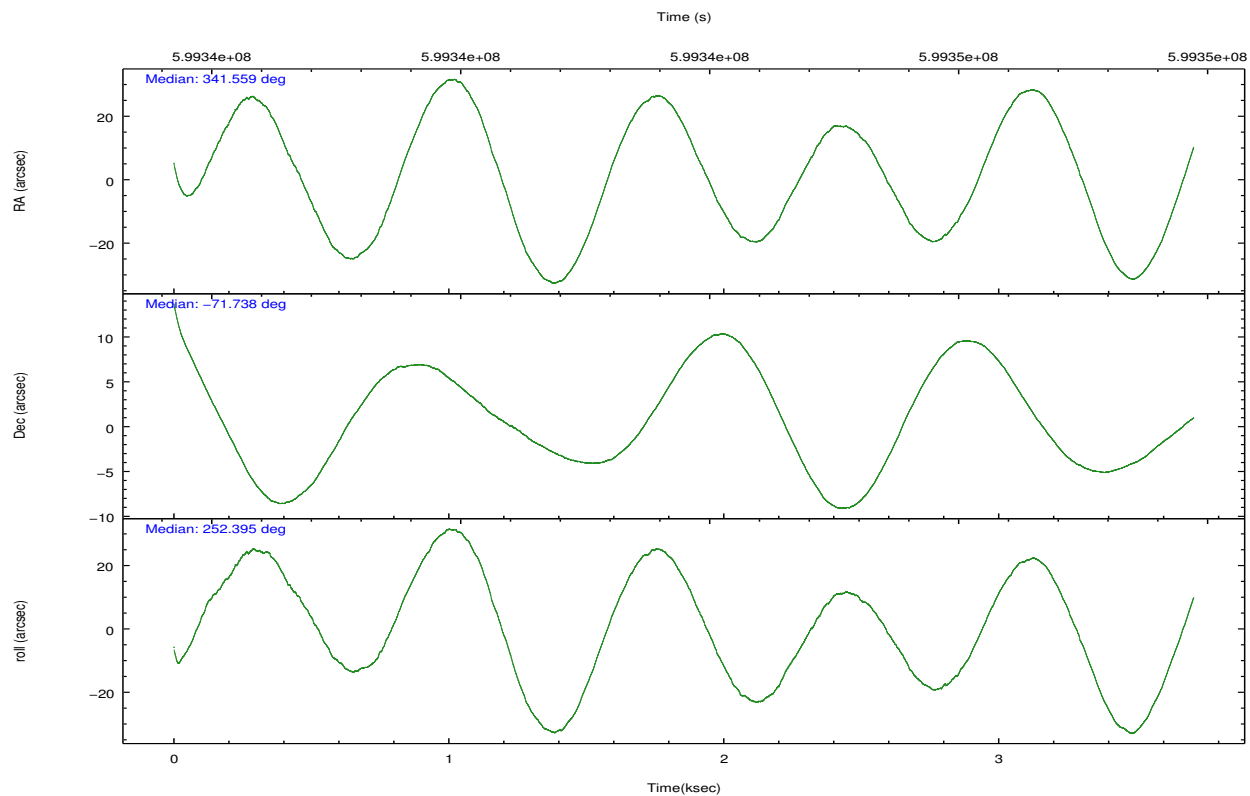


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	341.539370	341.5590383372807	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.710980	-71.73780176432629	Alternating exposures requested	N	N
[deg] Pointing Roll	252.224179	252.3994121615185	[s] Primary exposure time	0.000000	3.1
[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)	599343728.184000	599341892.74754			
Observation start date	2016-12-28T20:21:00	2016-12-28T19:51:32			
[s] Observation end time (MET)	599346728.184000	599347108.46034			
Observation end date	2016-12-28T21:11:00	2016-12-28T21:18:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect



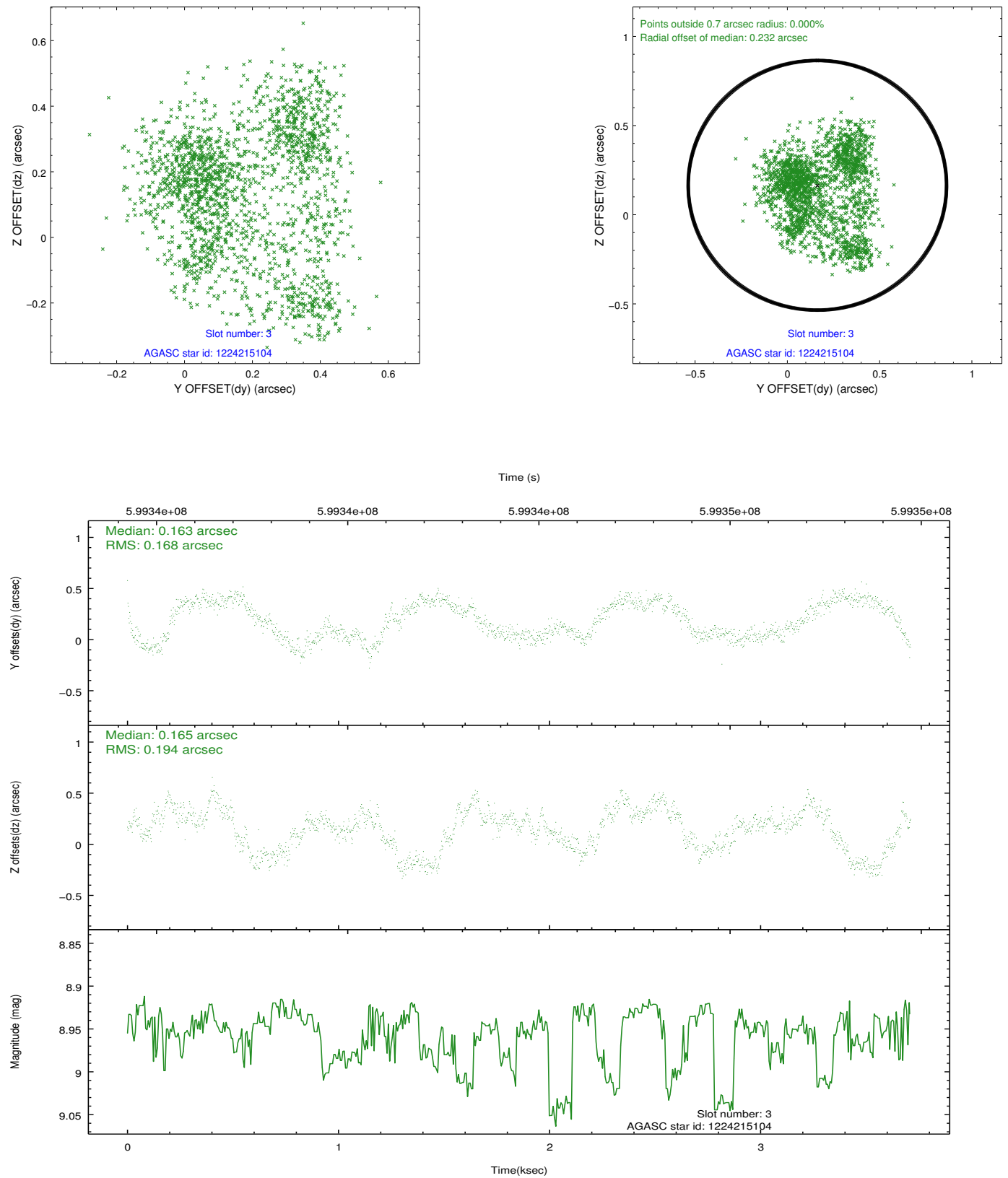


### Slot Statistics

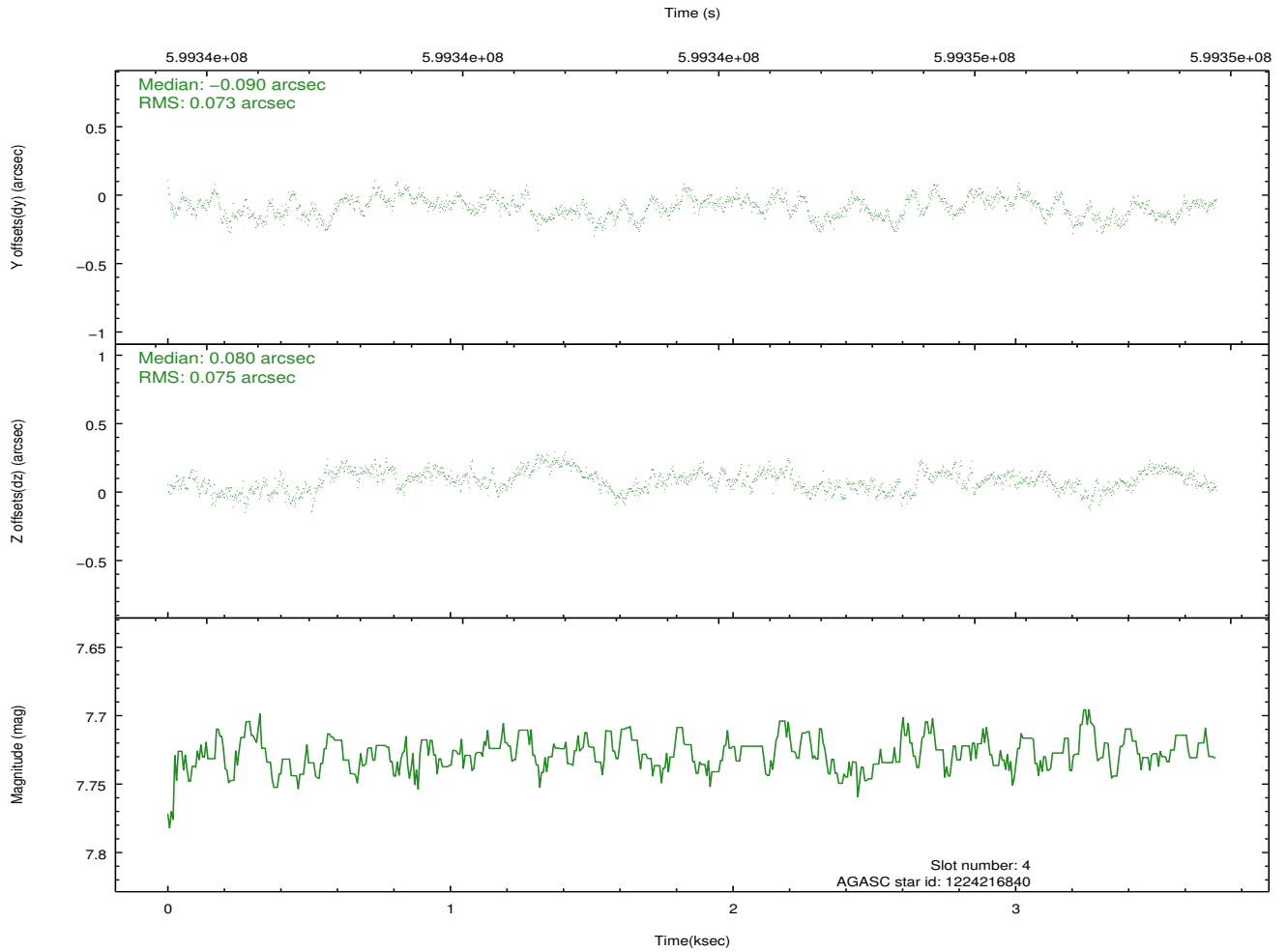
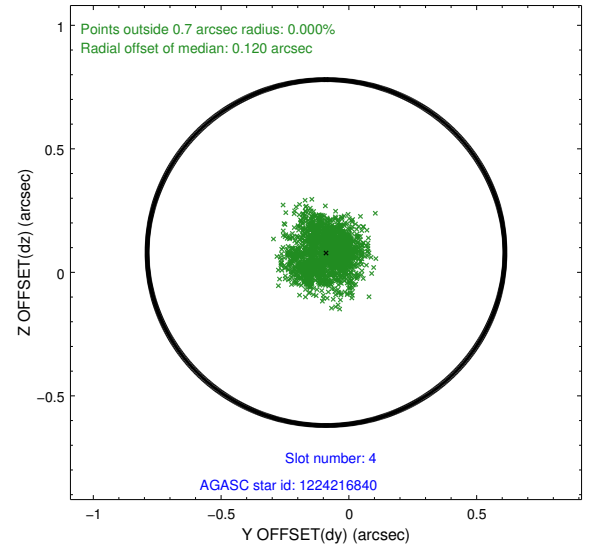
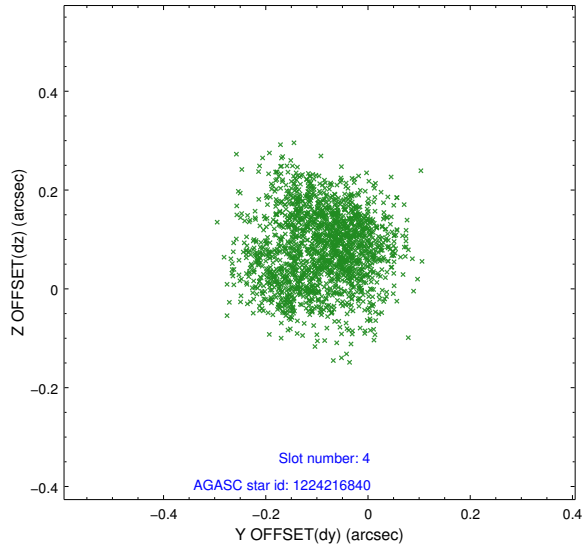
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.06	905	-0.283	-0.184	0.007	0.012	0.000000	0.000000	-771.31	-1741.95
1	FID		ACIS-S-4	7.18	905	0.306	0.167	0.006	0.010	0.000000	0.000000	2141.81	165.06
2	FID		ACIS-S-6	7.30	903	-0.050	0.025	0.008	0.013	0.000000	0.000000	393.13	804.28
3	GUIDE	used	1224215104	8.95	1810	0.163	0.165	0.278	0.428	340.910855	-71.607601	-131.57	-790.23
4	GUIDE	used	1224216840	7.73	1811	-0.090	0.080	0.113	0.172	342.787326	-71.425148	-1403.30	1053.08
5	GUIDE	used	1224217048	9.01	1809	-0.306	-0.495	0.127	0.201	342.868028	-72.251237	1421.31	1988.18
6	GUIDE	used	1224225448	8.10	1810	0.185	0.152	0.143	0.216	340.487623	-71.528601	-247.83	-1337.90
7	GUIDE	used	1224232064	9.11	1804	0.039	0.131	0.122	0.200	342.217354	-71.263284	-1770.14	255.17

## 2.4 Star Slots

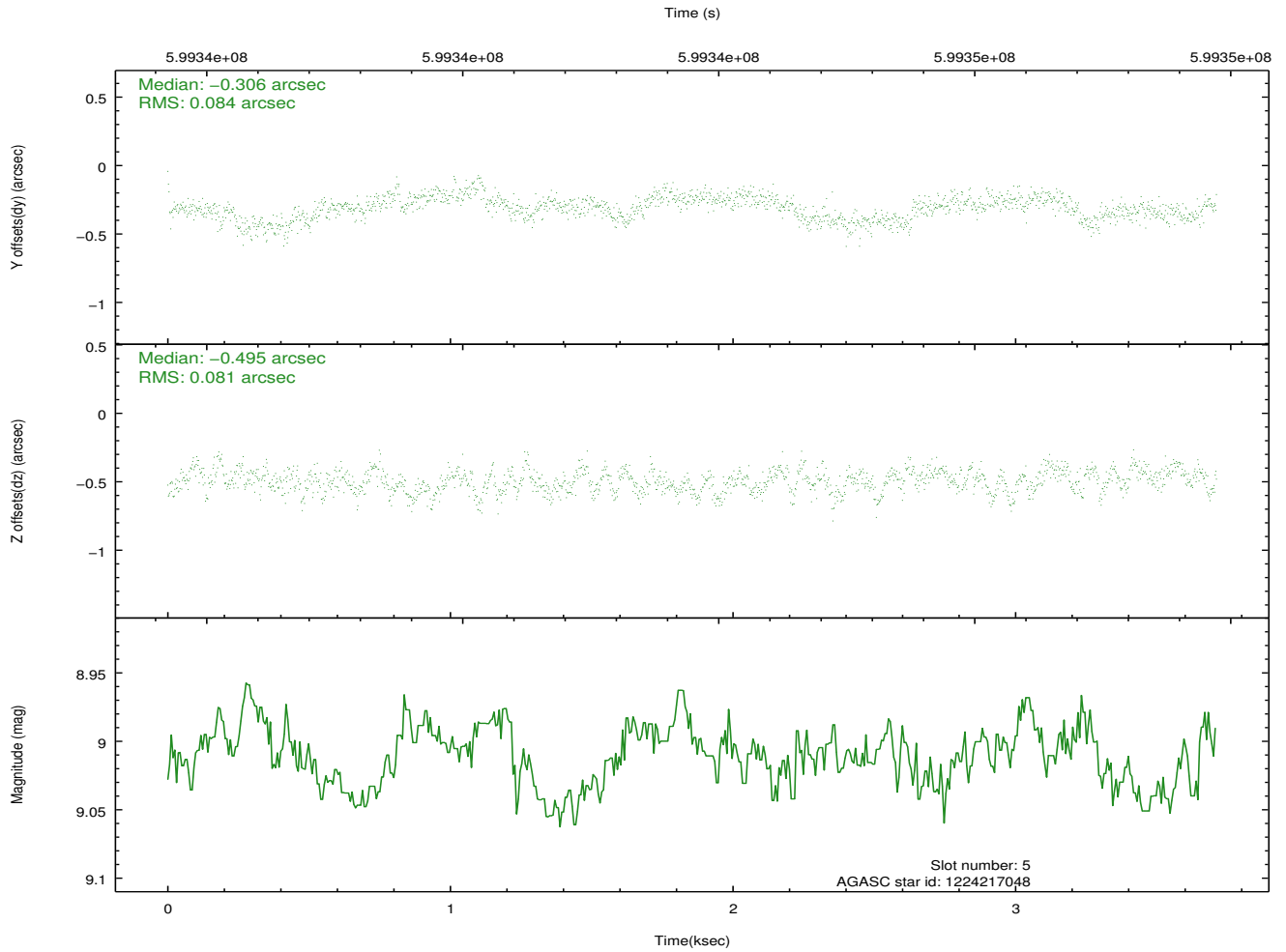
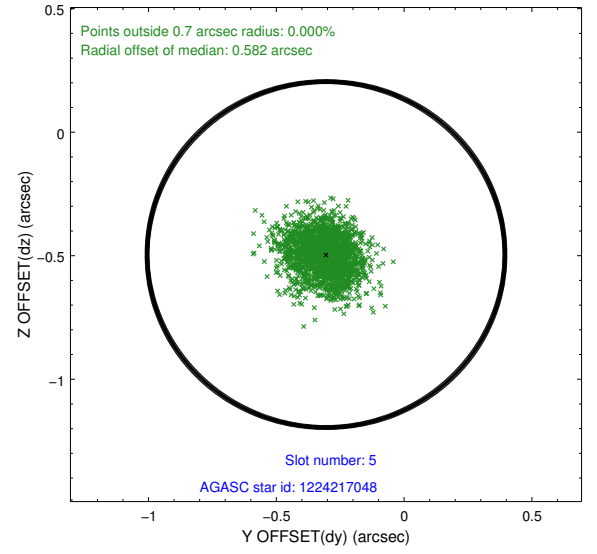
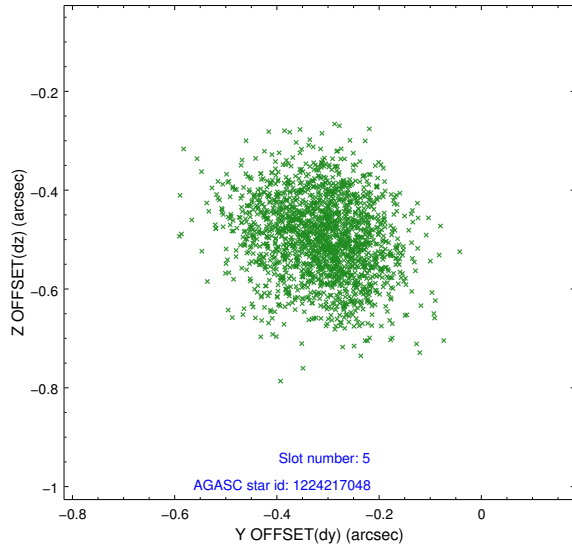
### 2.4.1 Slot 3



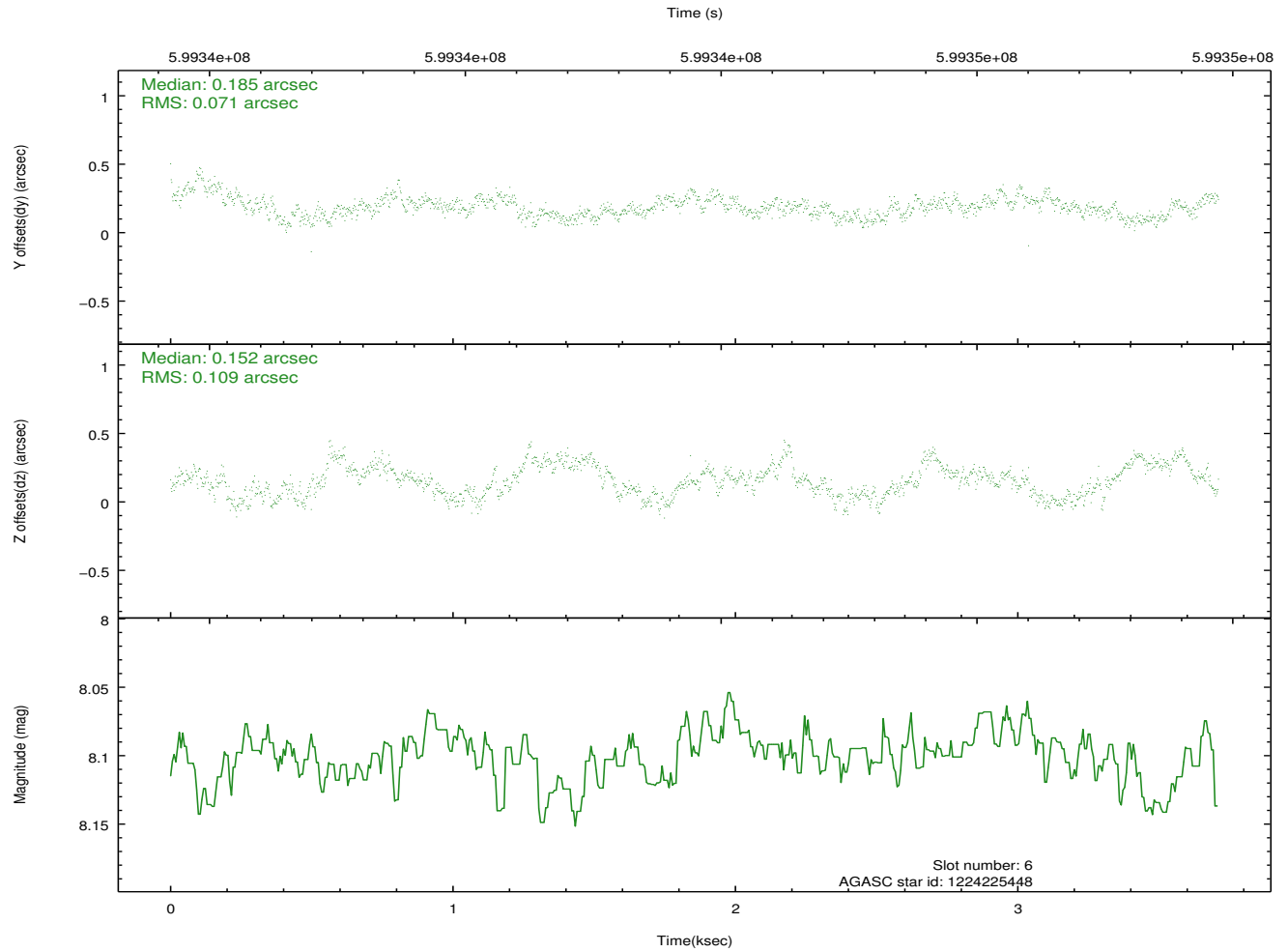
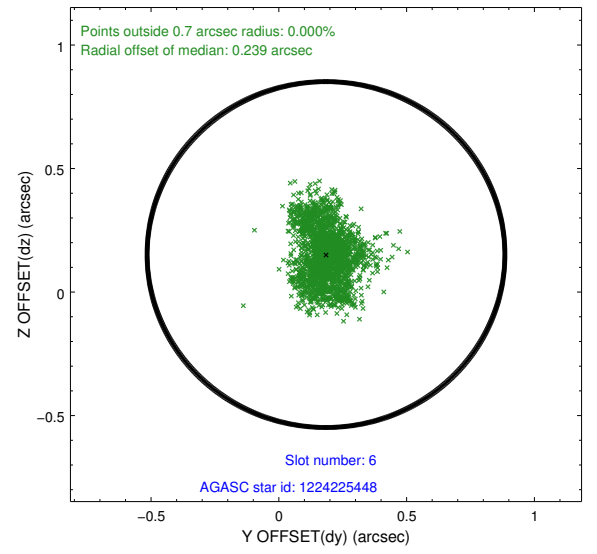
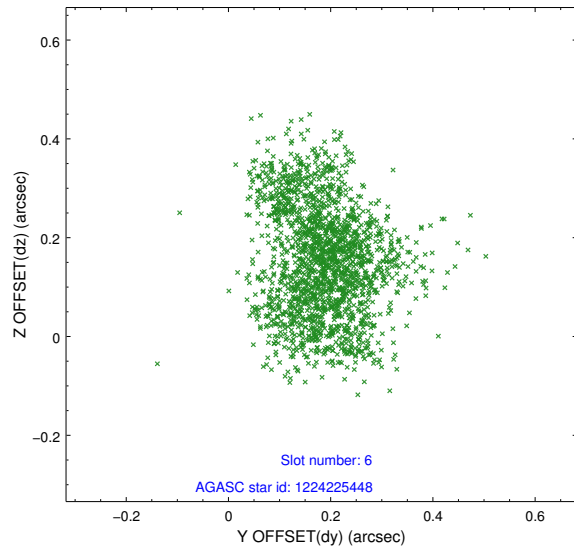
## 2.4.2 Slot 4



### 2.4.3 Slot 5

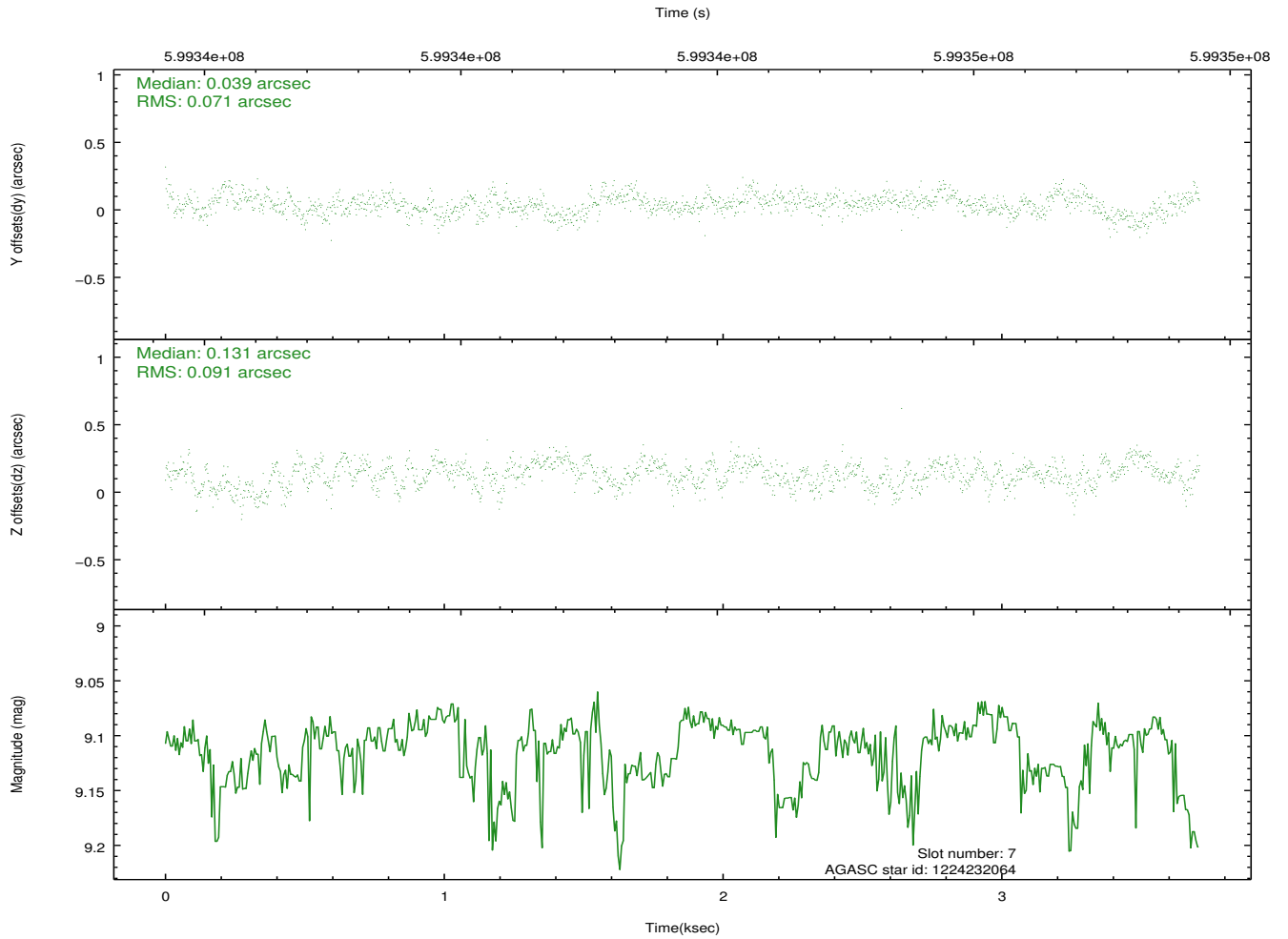
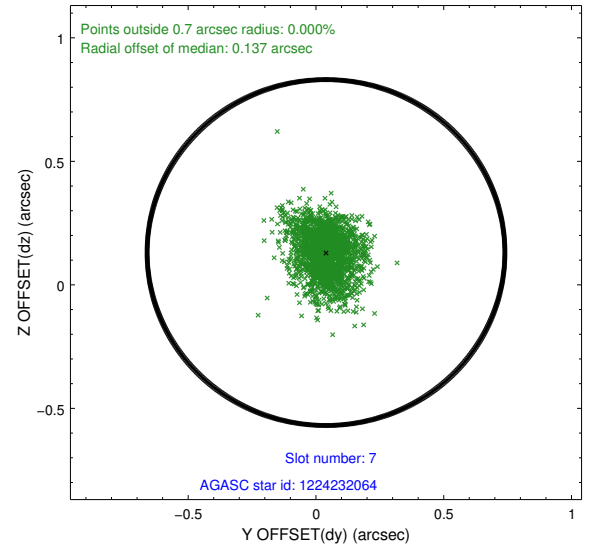
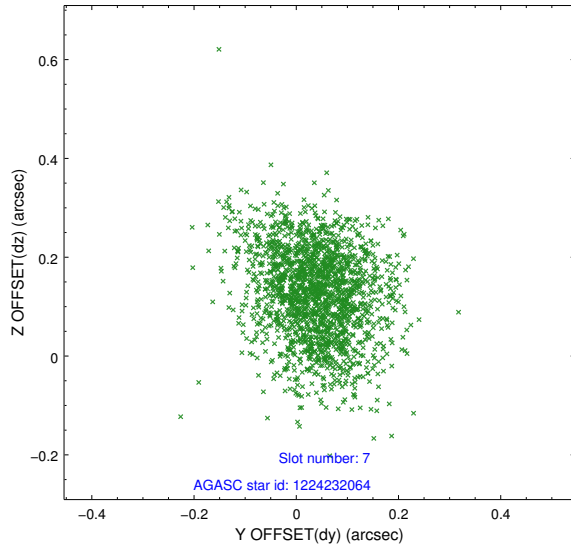


## 2.4.4 Slot 6



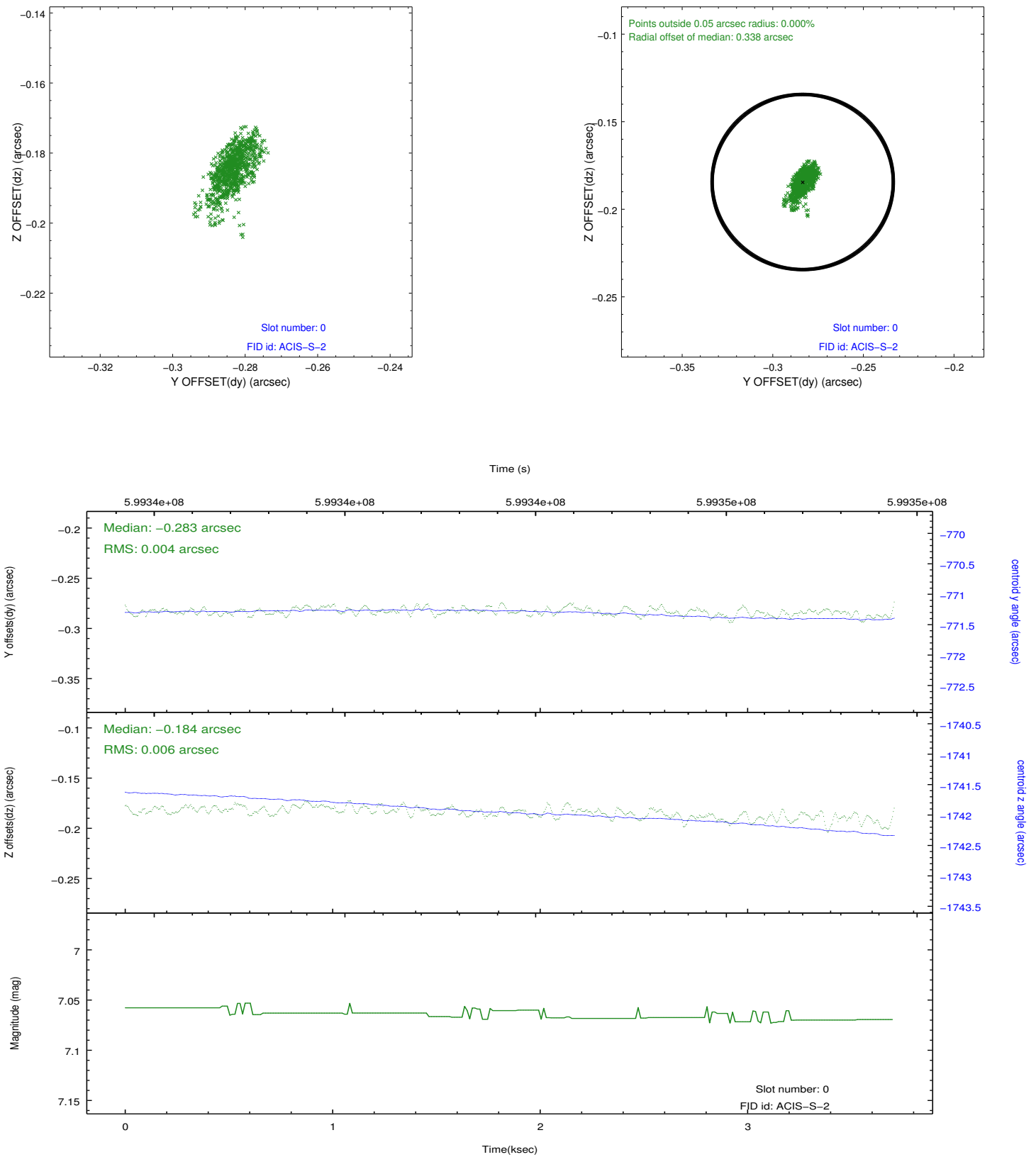


## 2.4.5 Slot 7

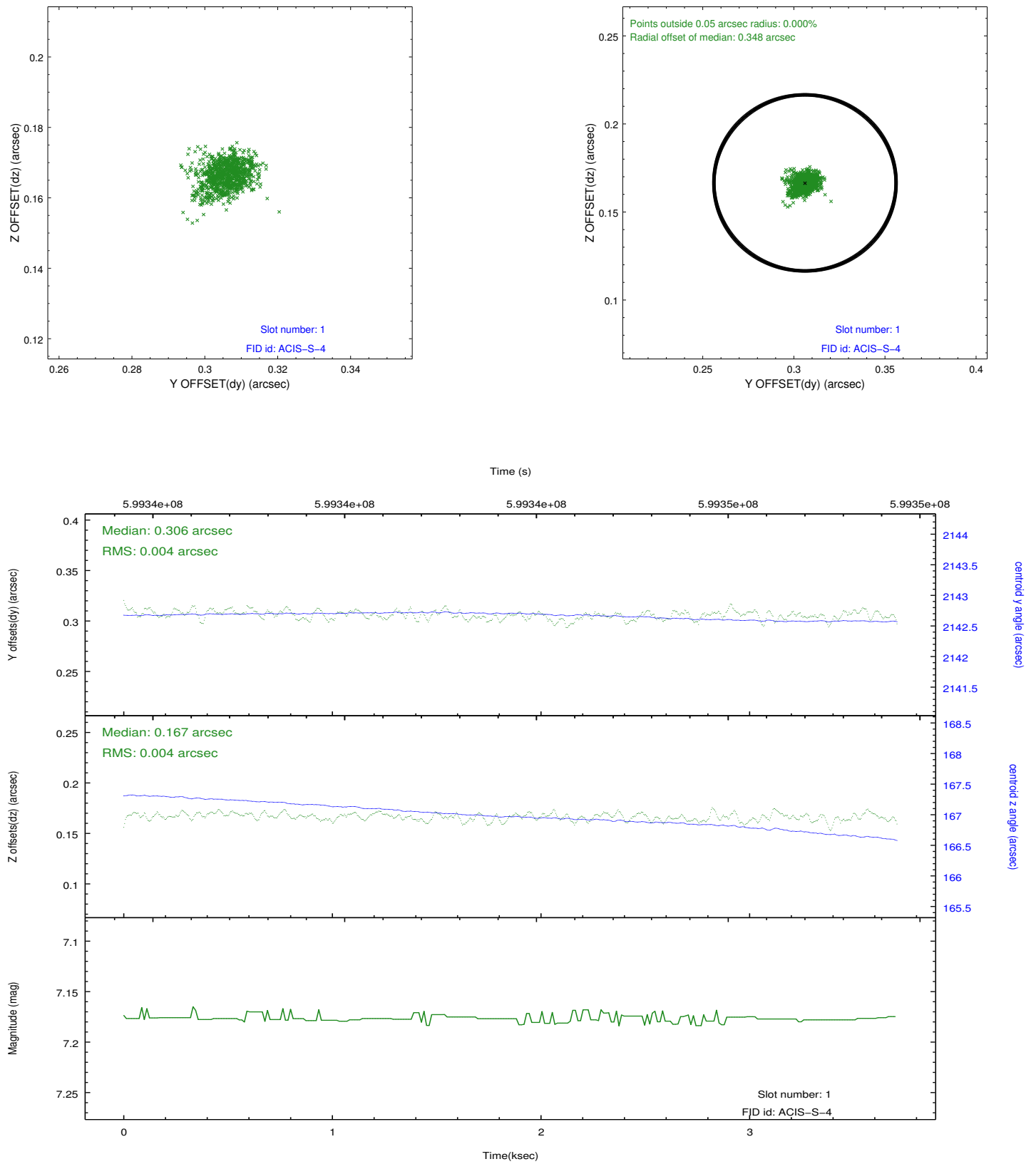


## 2.5 FID Slots

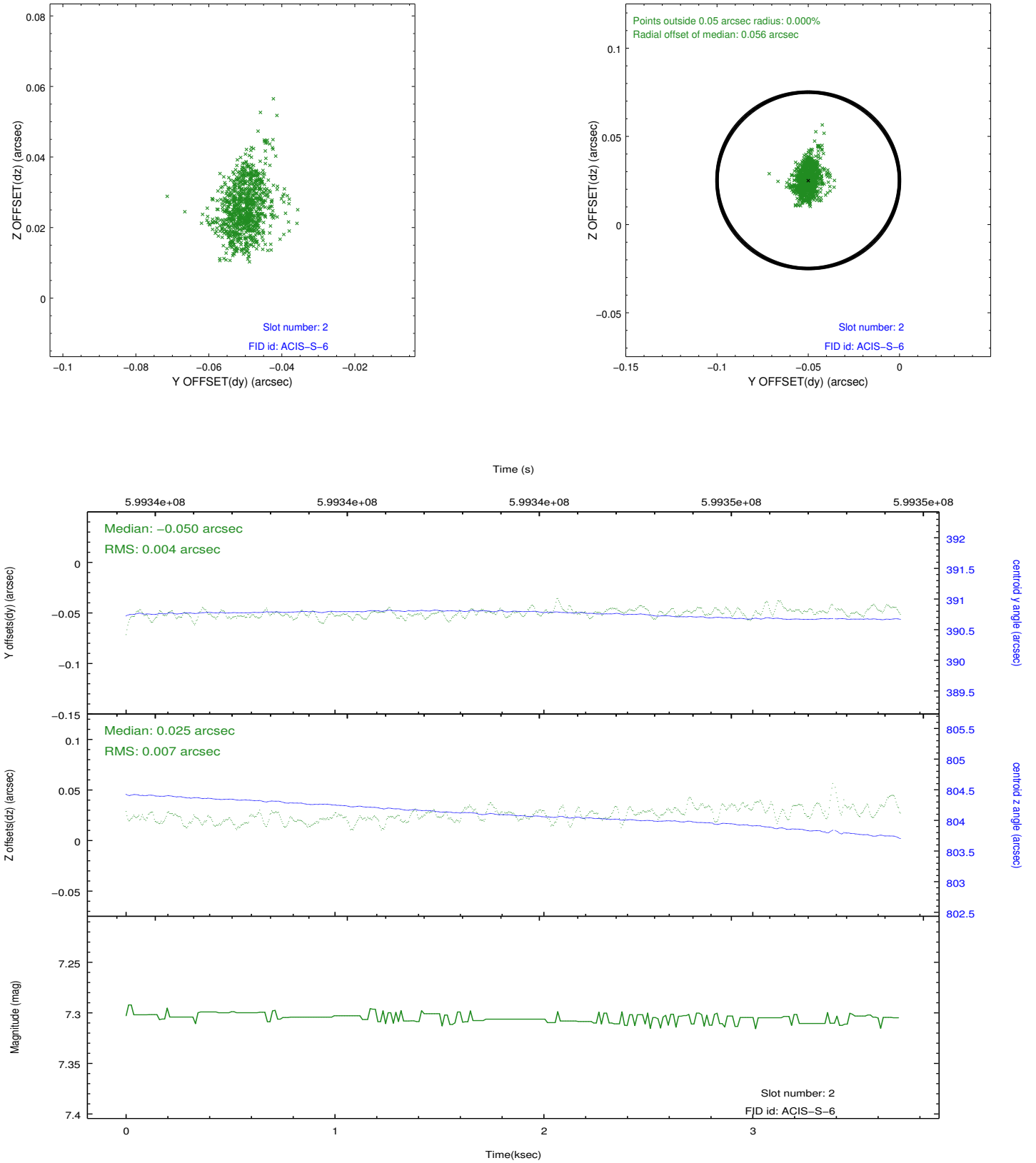
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.12.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1118084814548

### A.2 Comments