

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12171 - L2 Version 2  
Chandra X-Ray Center

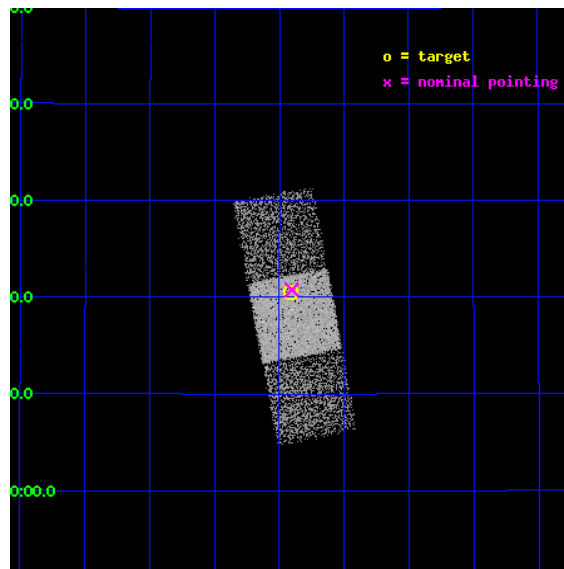
L2 Processing Date : Jul 4 2012

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# 1 Front

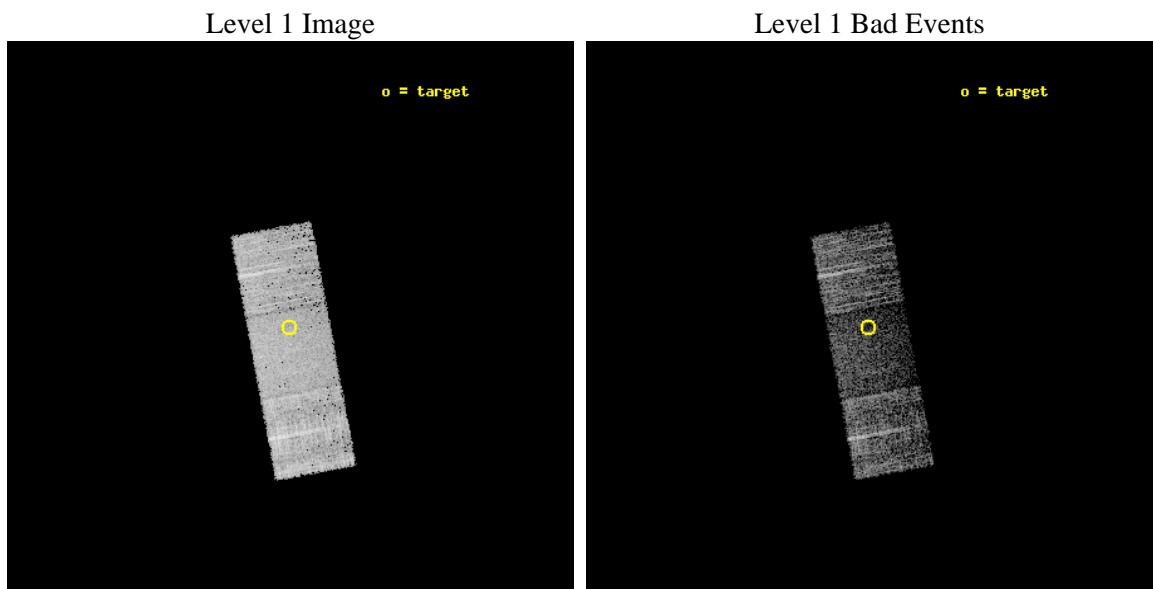
seq_num	702335	Sequence number
obs_id	12171	Observation id
title	Remarkable High-Redshift Quasars from the Sloan Digital Sky Survey	&#160
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J0741+2520	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	115.477917	Observer's specified target RA [deg]
dec_targ	25.341556	Observer's specified target Dec [deg]
ra_nom	115.47585282099	Nominal RA [deg]
dec_nom	25.346034218517	Nominal Dec [deg]
roll_nom	79.409967412418	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4060.5643550754	Sum of GTIs [s]
livetime	4007.5100924323	Livetime [s]
ontime6	4060.5233150721	Sum of GTIs [s]
ontime7	4060.5643550754	Sum of GTIs [s]
ontime8	4060.4822750688	Sum of GTIs [s]
l2events	19455	Number of level 2 events



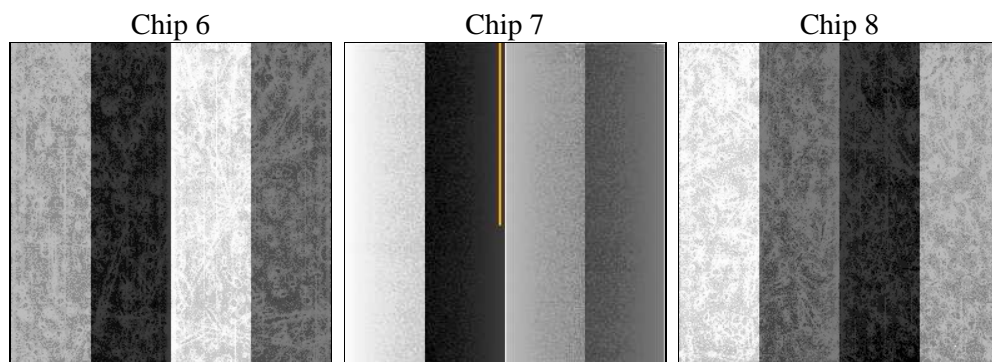
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.606000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4060.5643550754	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime6	4060.5233150721	Sum of GTIs [s]
date	2012-07-04T15:24:34	Date and time of file creation	ontime7	4060.5643550754	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	4060.4822750688	Sum of GTIs [s]
			l1events	91271	Number of level 1 events

### 2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	27723	28770	34778
rejected events	24674	14491	25013
rejected %	89%	50%	71%

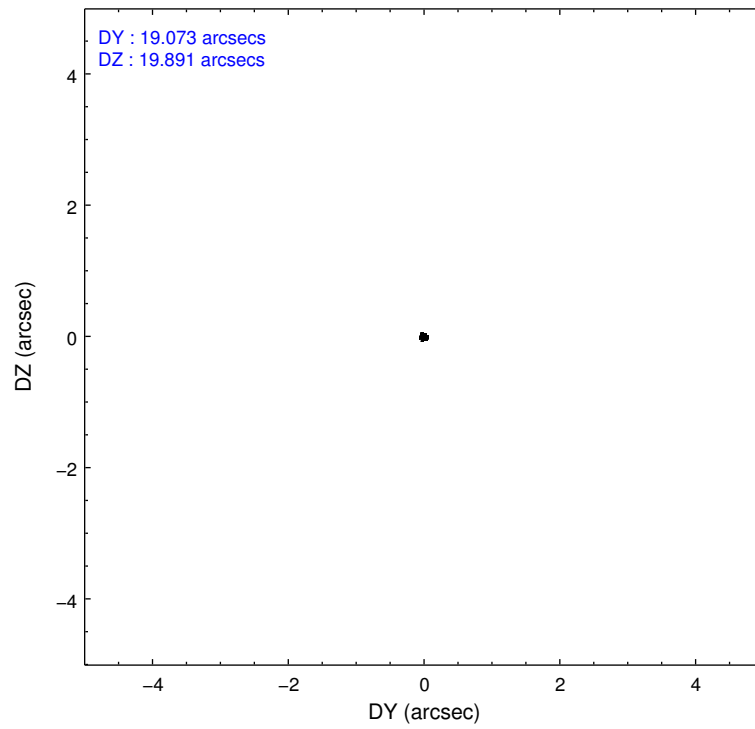
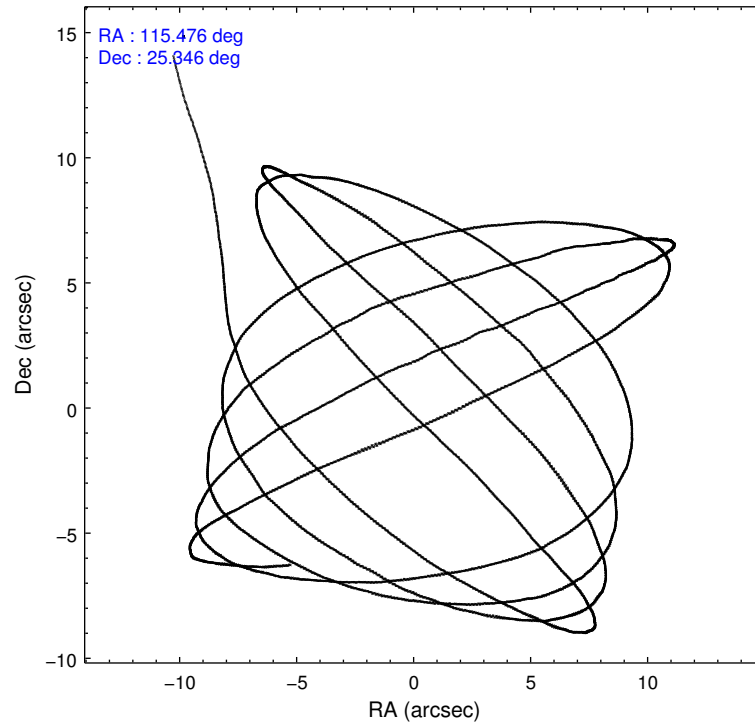
	ccd 6	ccd 7	ccd 8
grade 0 events	1127	1407	2720
	4%	4%	7%
grade 1 events	12	51	20
	0%	0%	0%
grade 2 events	658	2992	2237
	2%	10%	6%
grade 3 events	301	1332	1103
	1%	4%	3%
grade 4 events	345	1299	1008
	1%	4%	2%
grade 5 events	994	3112	1637
	3%	10%	4%
grade 6 events	621	7270	2699
	2%	25%	7%
grade 7 events	23665	11307	23354
	85%	39%	67%

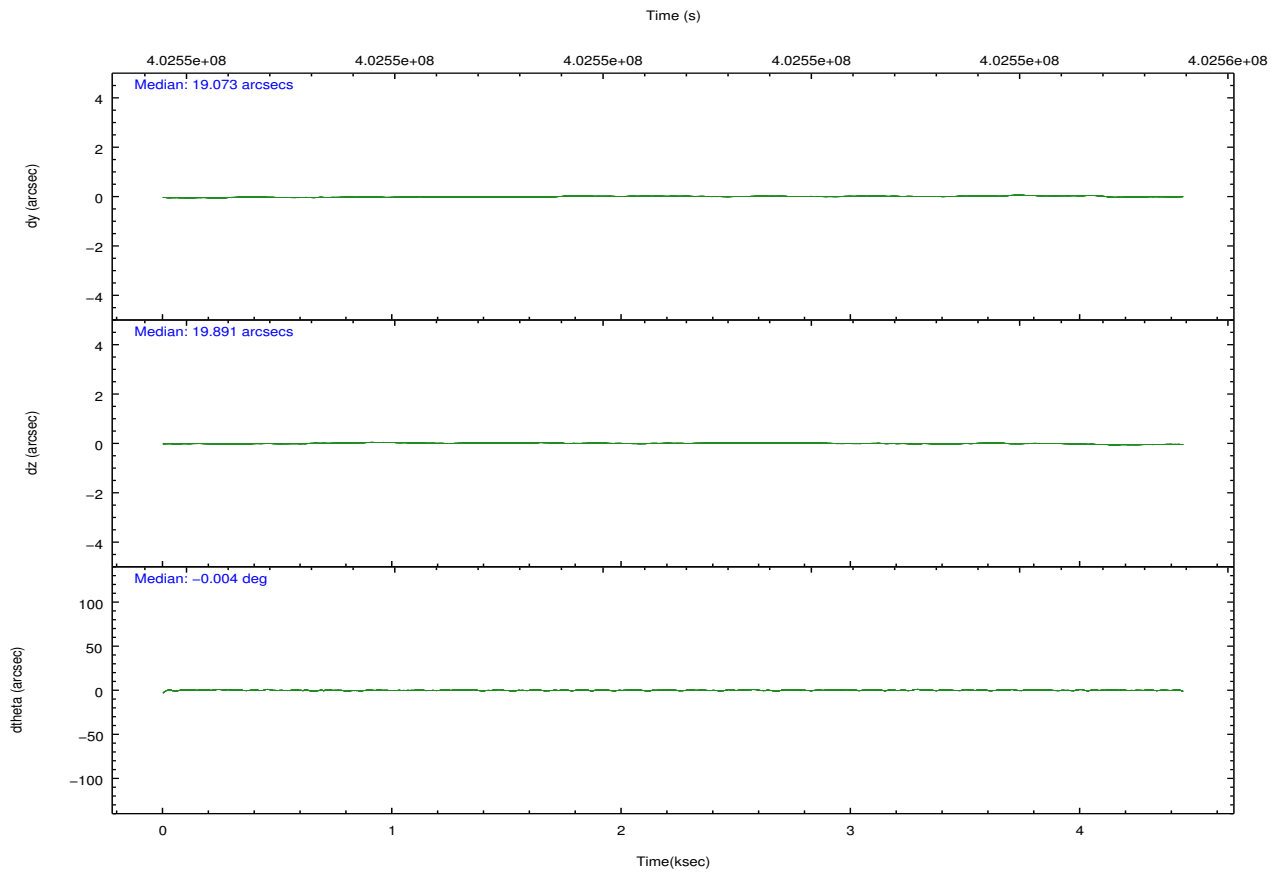
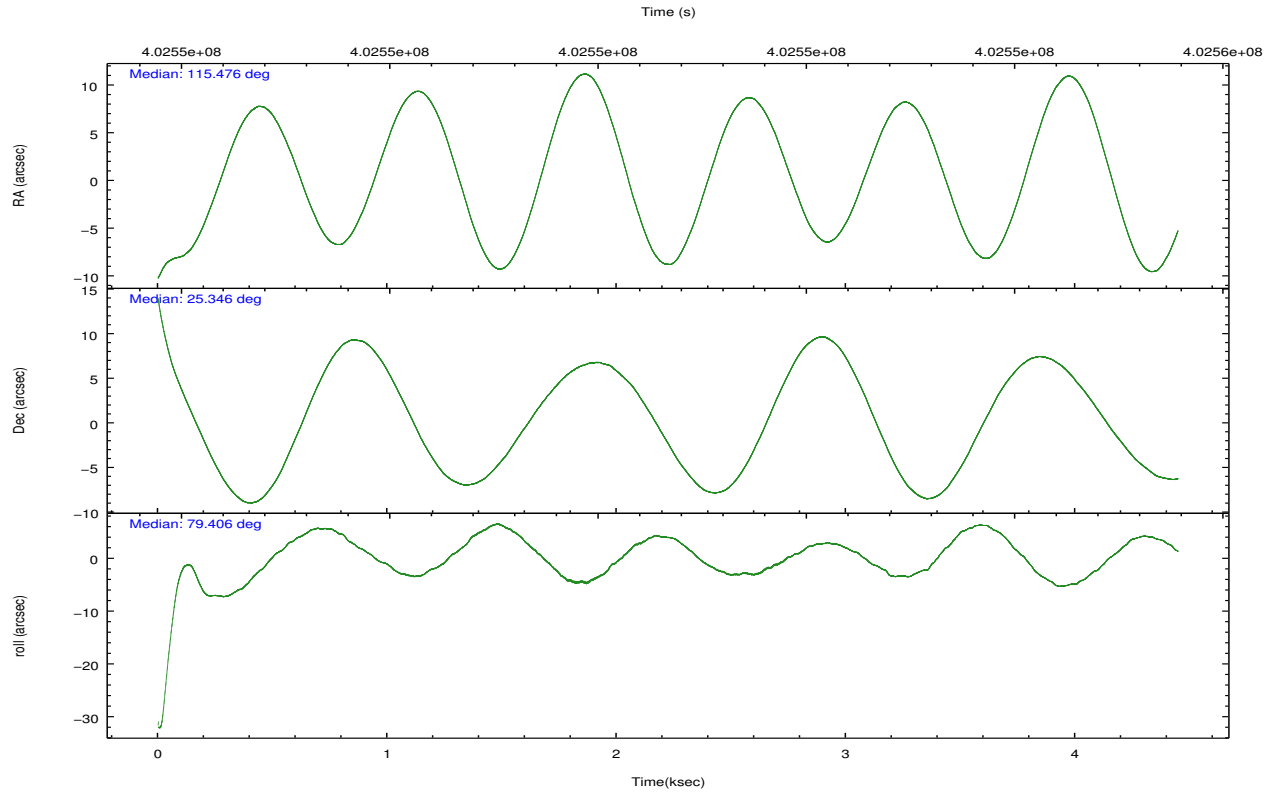


## 2.2 Compared Parameters

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	115.486430	115.4758528209932	Subarray requested	NONE	NONE
[deg] Pointing Dec	25.320423	25.34603421851672	Alternating exposures requested	N	N
[deg] Pointing Roll	79.248917	79.4099674124183	[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)	402550562.184000	402549619.57704			
Observation start date	2010-10-04T03:34:56	2010-10-04T03:20:19			
[s] Observation end time (MET)	402554563.184000	402554789.6773			
Observation end date	2010-10-04T04:41:37	2010-10-04T04:46:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect



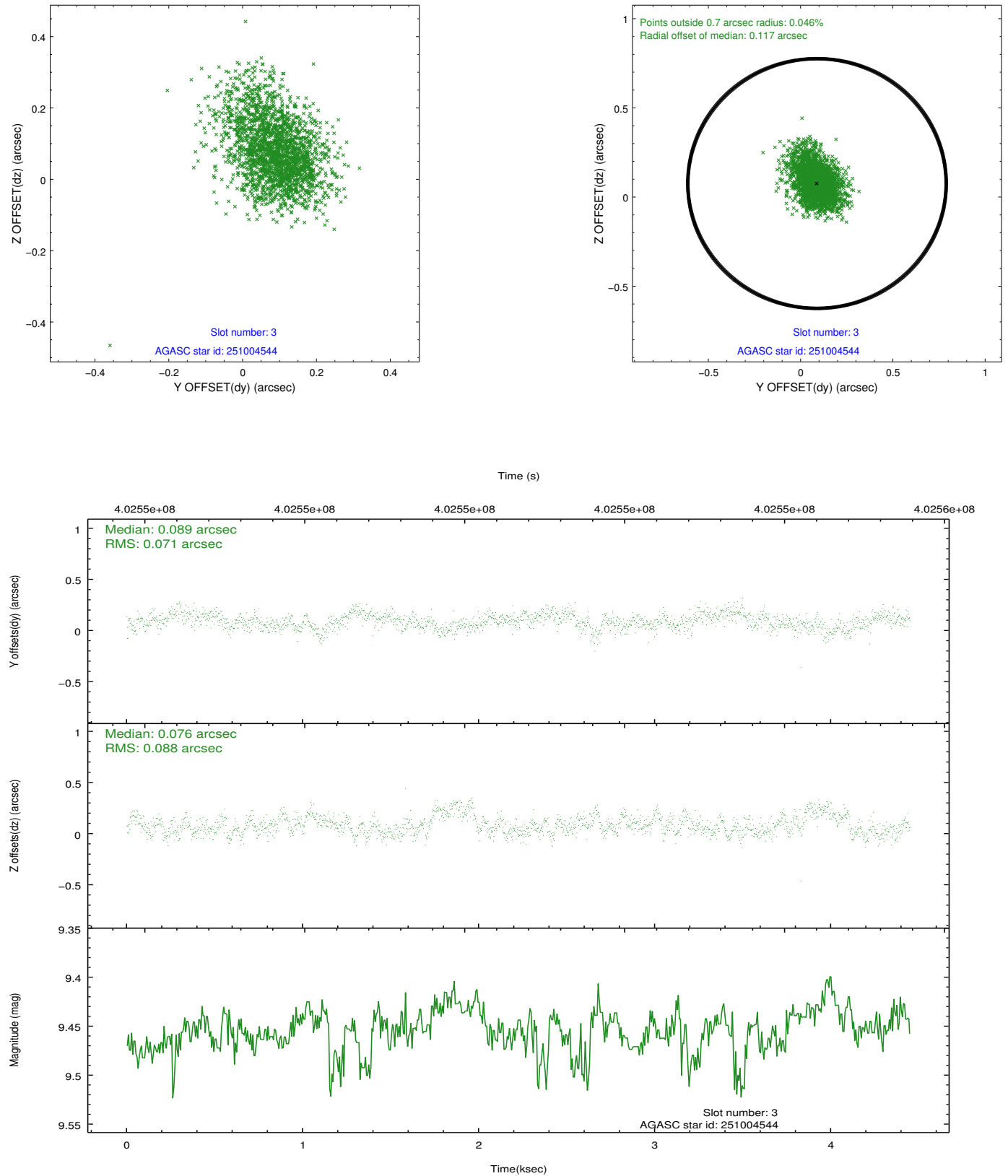


### Slot Statistics

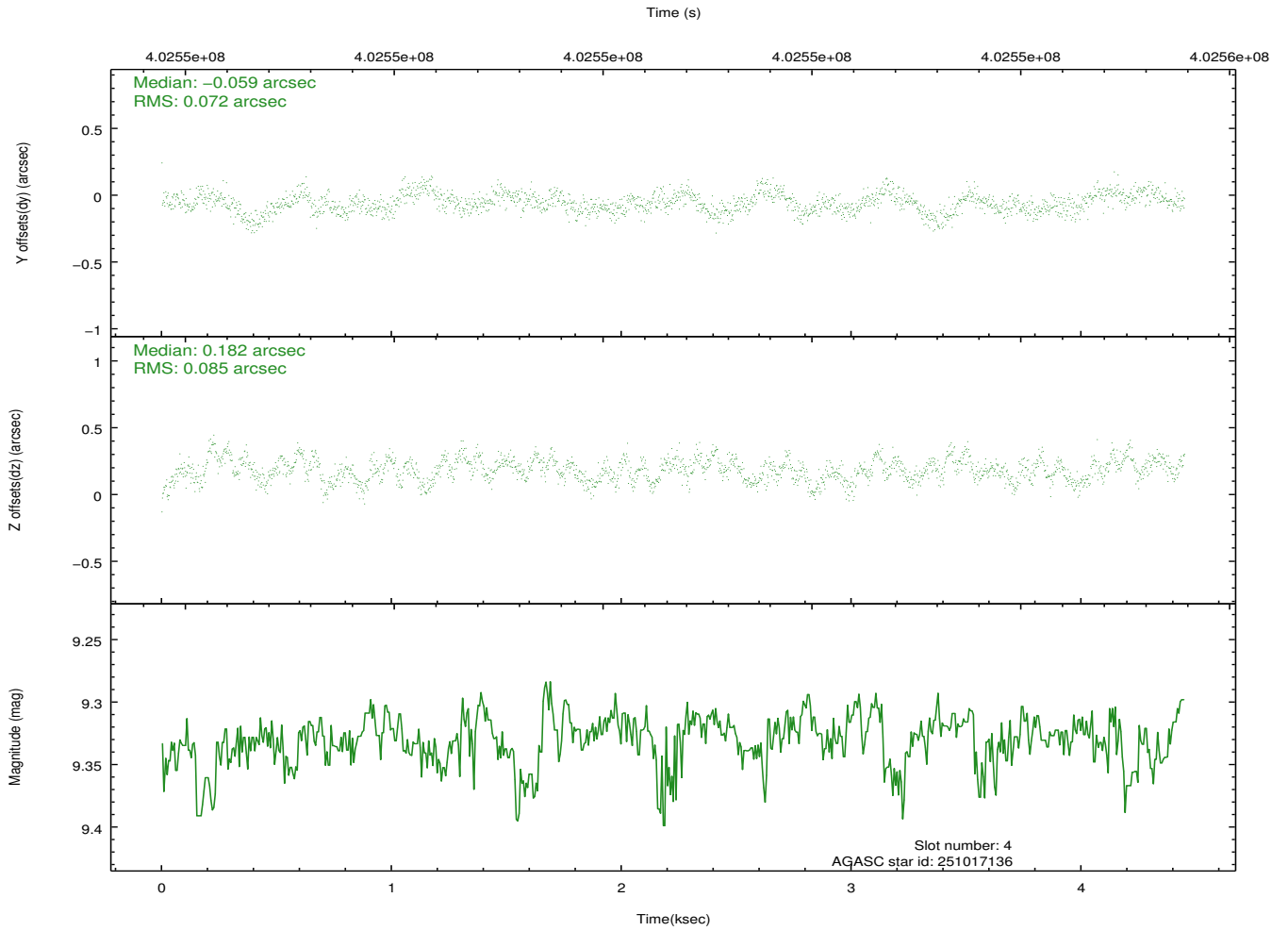
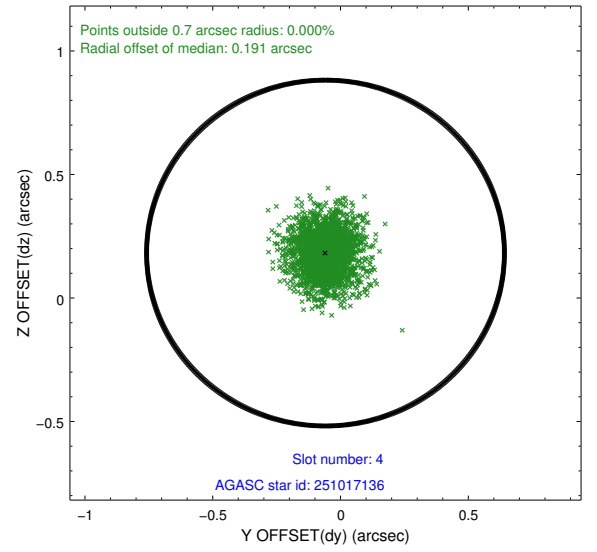
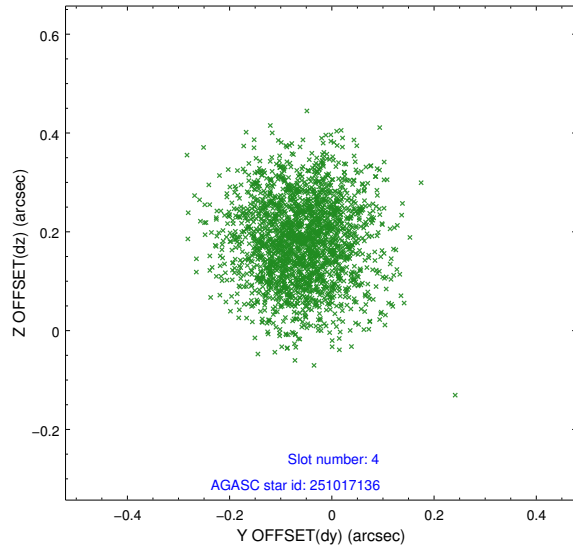
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	1085	-0.100	-0.011	0.006	0.010	0.000000	0.000000	-772.25	-1741.41
1	FID	ACIS-S-4	6.96	1085	0.218	0.051	0.005	0.010	0.000000	0.000000	2140.71	165.69
2	FID	ACIS-S-5	6.99	1086	-0.149	-0.031	0.006	0.011	0.000000	0.000000	-1823.37	160.86
3	GUIDE	251004544	9.45	2171	0.089	0.076	0.117	0.202	114.957431	25.745949	1188.33	1971.38
4	GUIDE	251017136	9.33	2168	-0.059	0.182	0.118	0.192	115.063081	25.443240	180.45	1435.51
5	GUIDE	251137344	8.04	2170	-0.127	0.051	0.057	0.091	115.322549	25.888733	1911.23	903.61
6	GUIDE	251014552	8.13	2168	0.214	-0.161	0.080	0.128	114.734471	25.230990	-765.20	2346.68
7	GUIDE	251006952	9.58	2154	-0.117	-0.157	0.143	0.216	114.847397	25.680570	891.57	2280.10

## 2.4 Star Slots

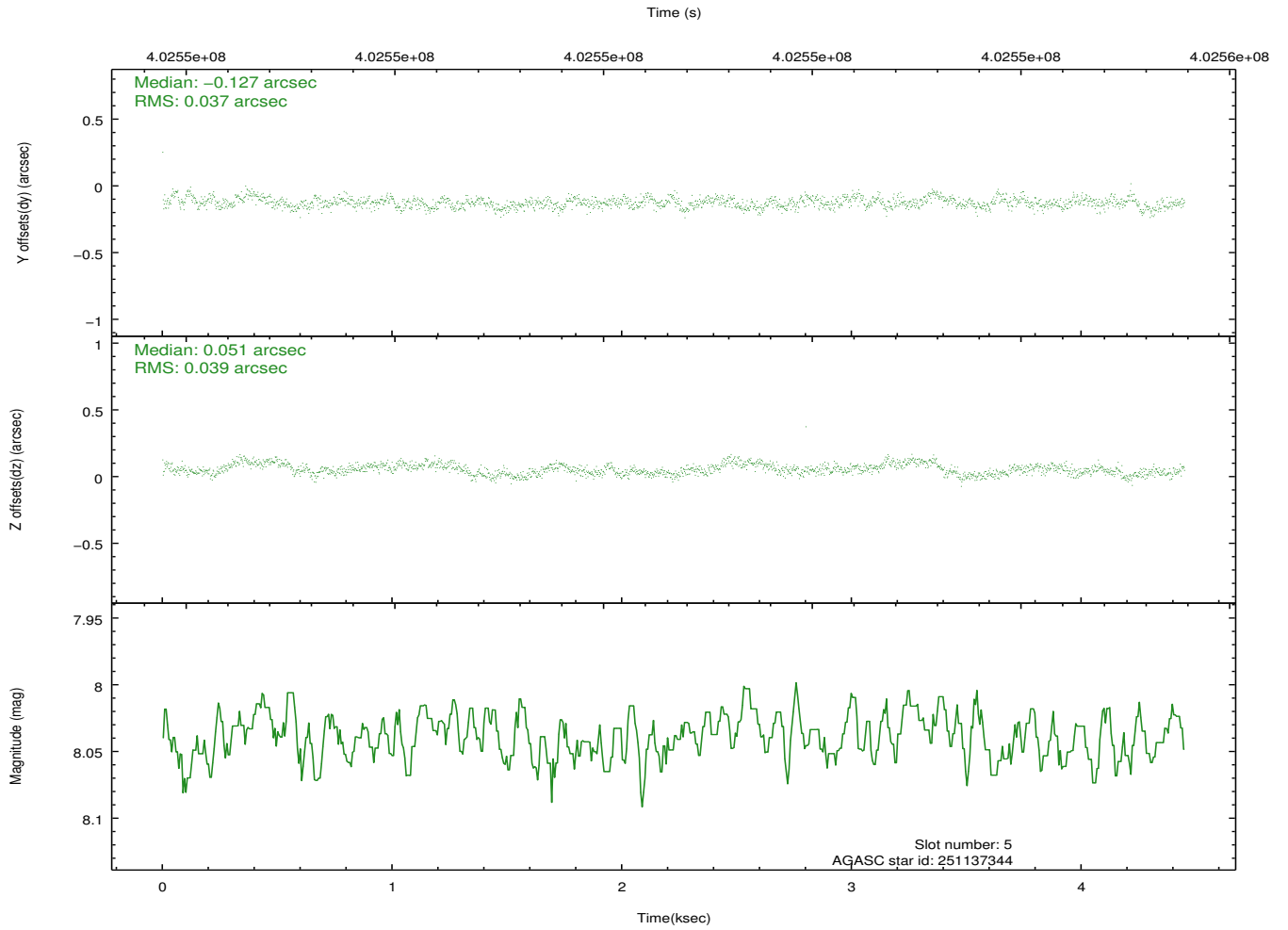
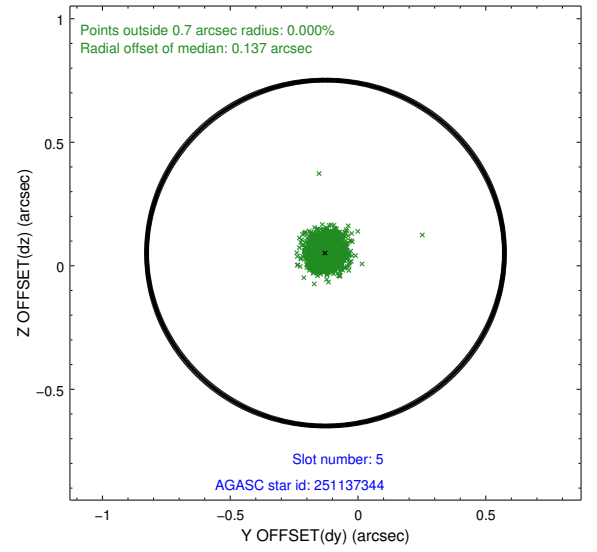
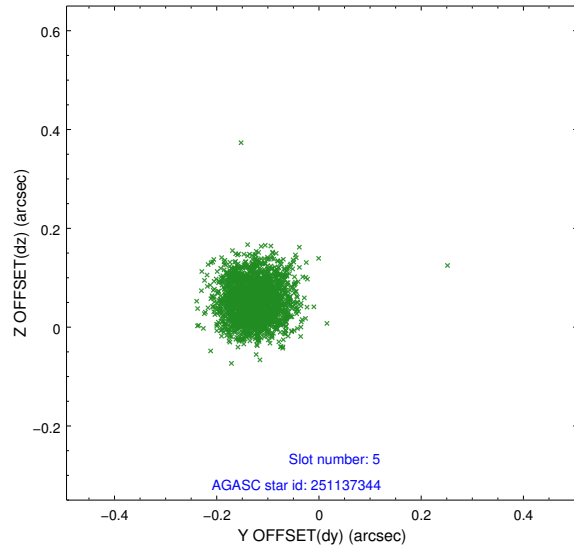
### 2.4.1 Slot 3



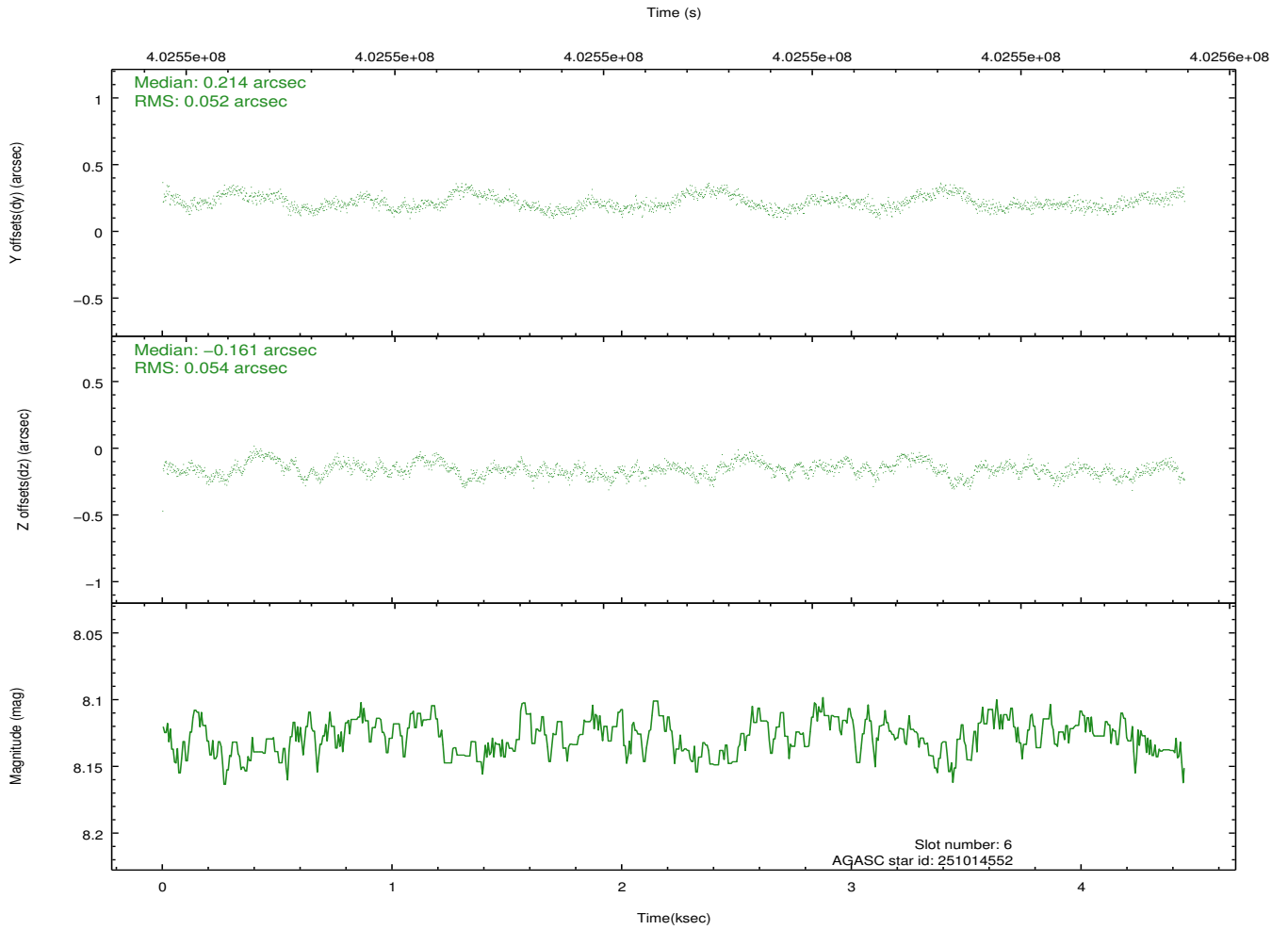
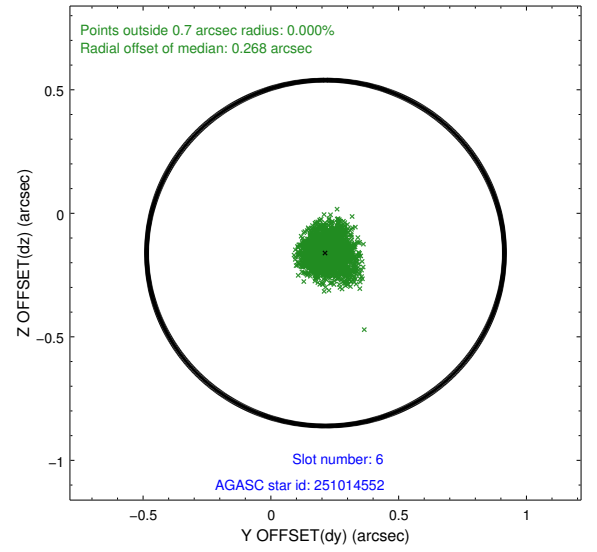
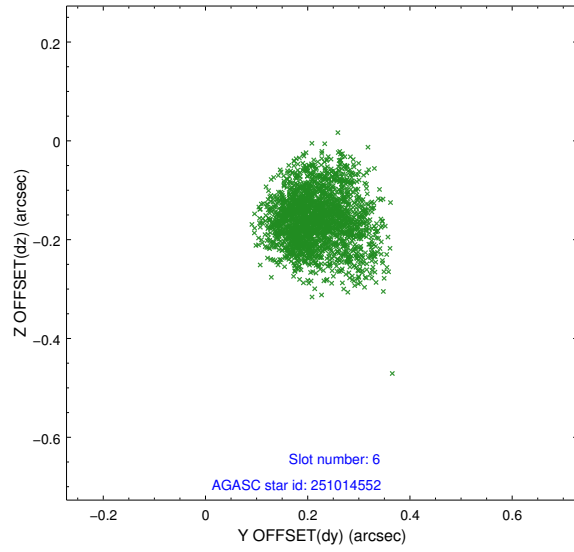
## 2.4.2 Slot 4



### 2.4.3 Slot 5

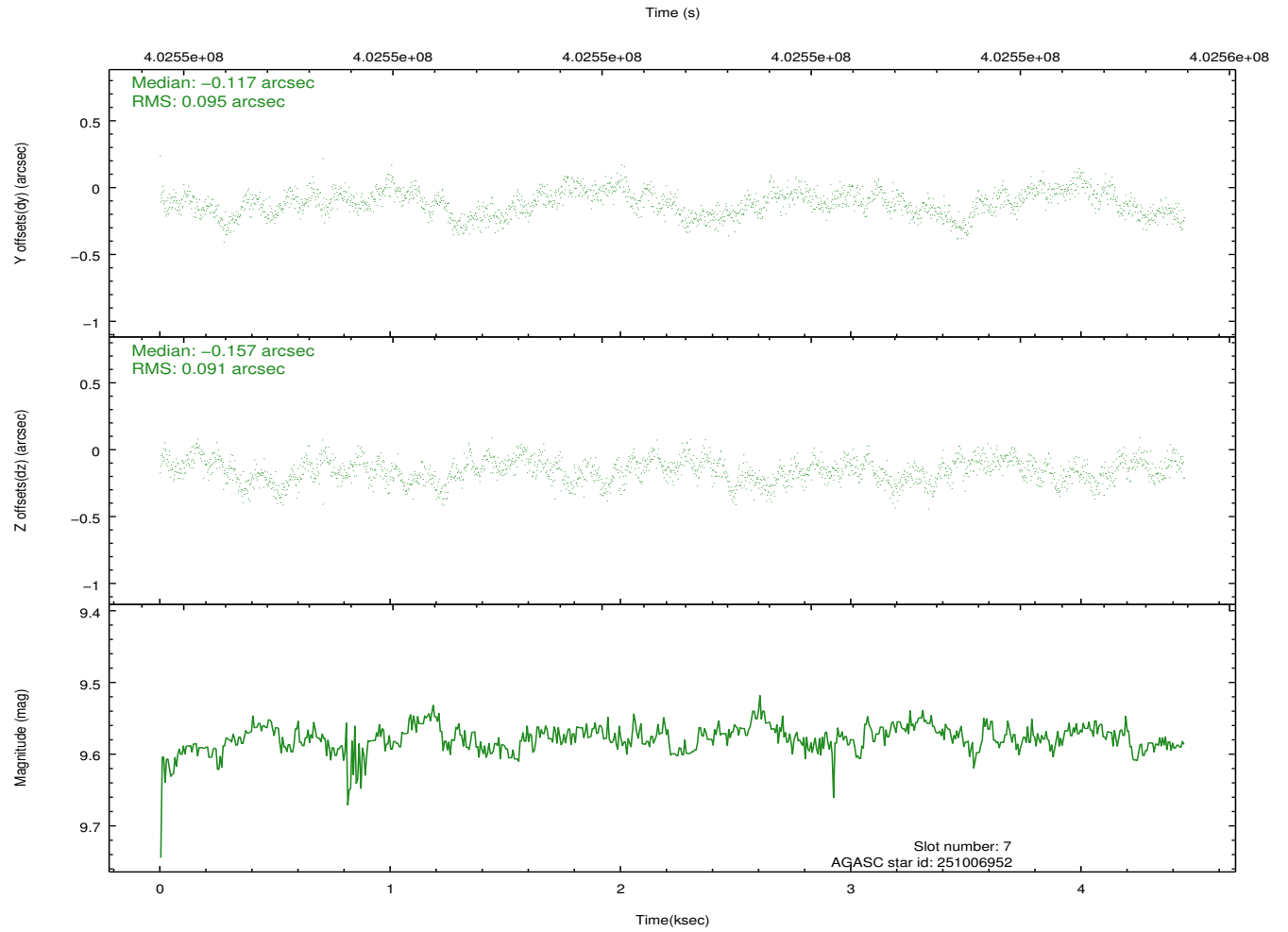
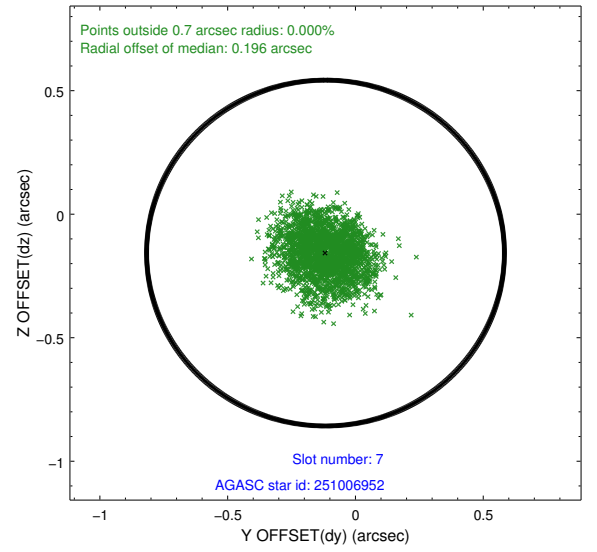
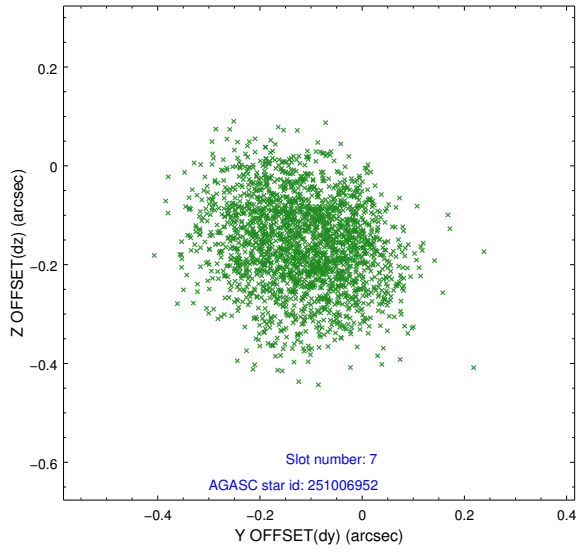


## 2.4.4 Slot 6



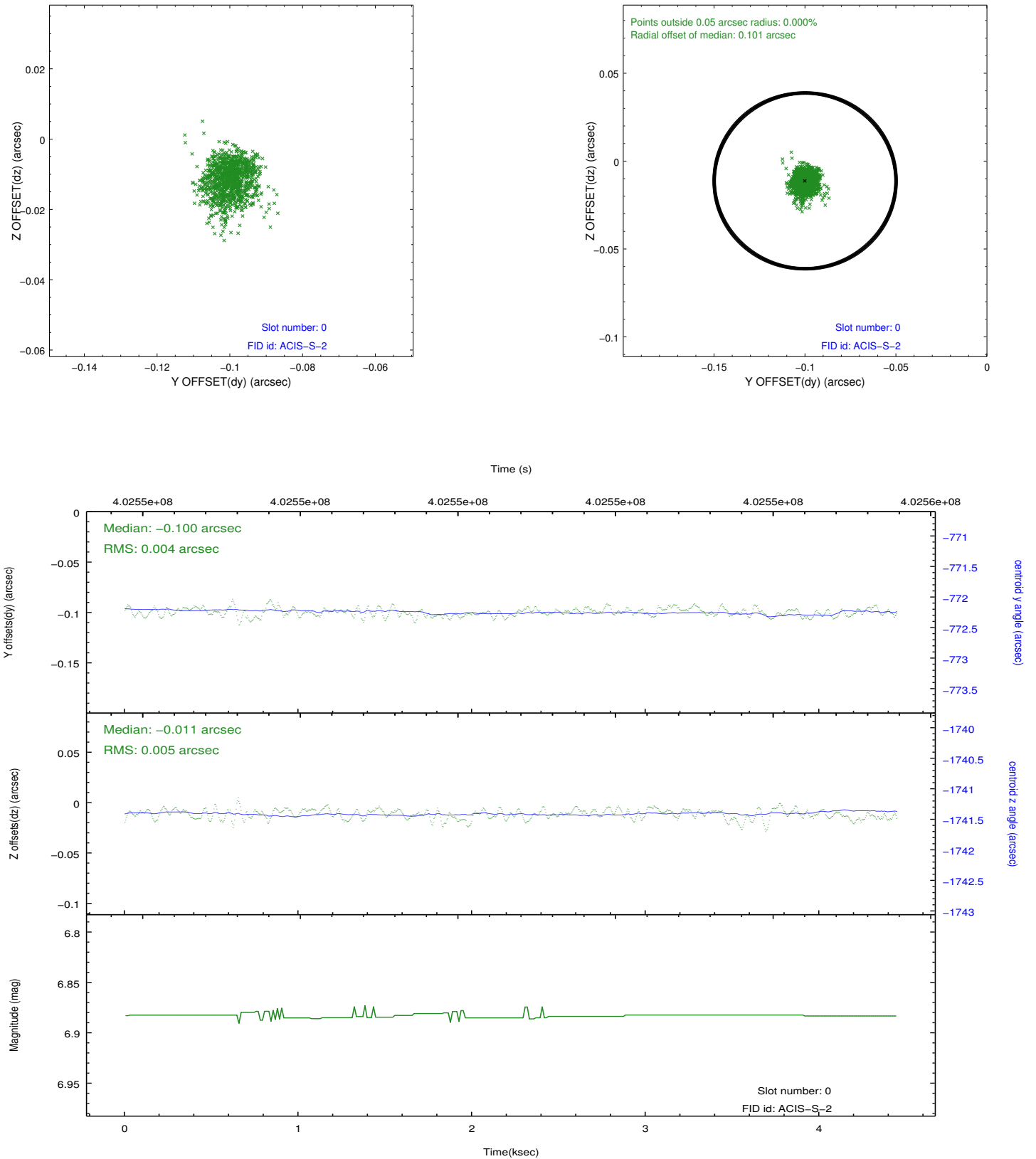


### 2.4.5 Slot 7

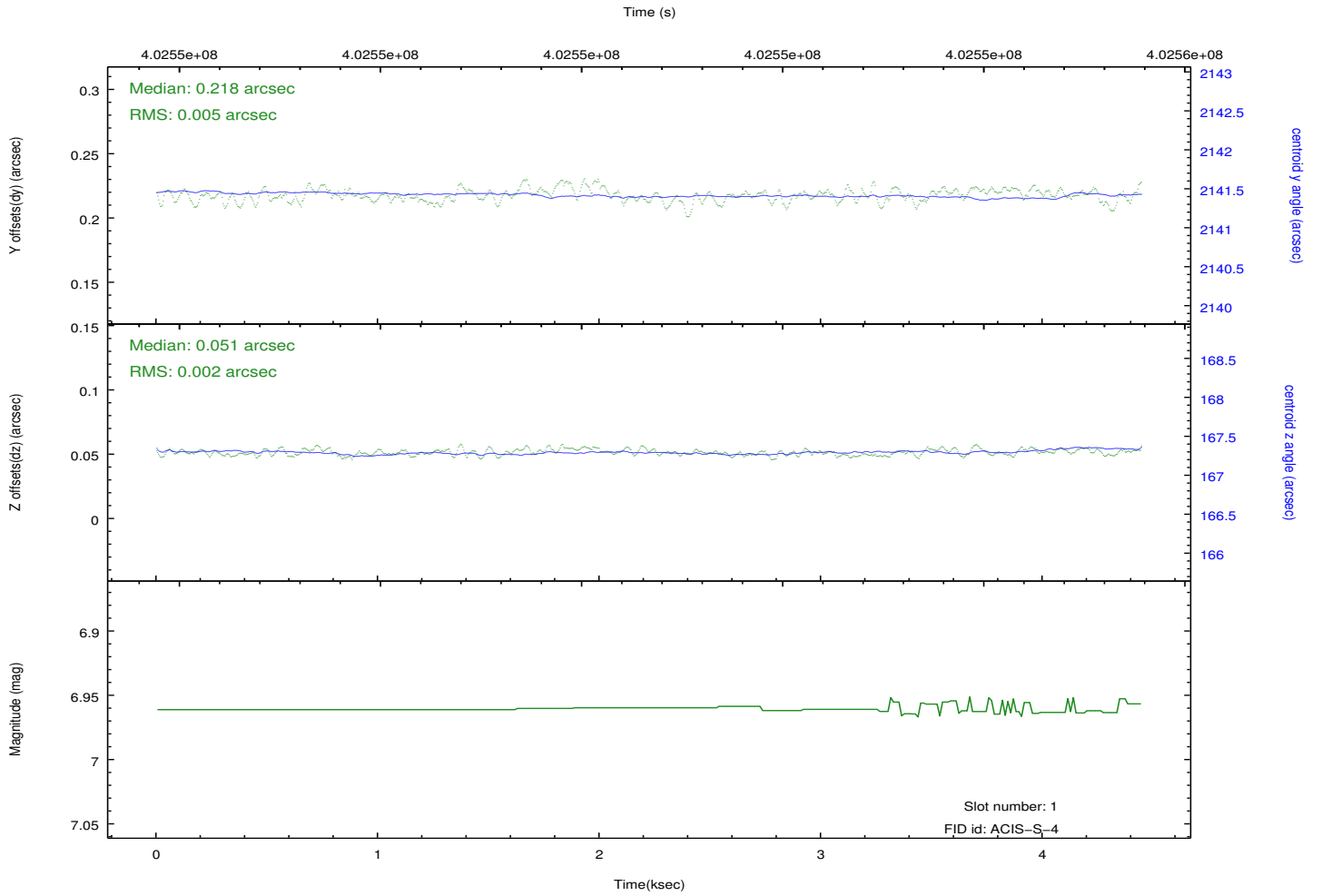
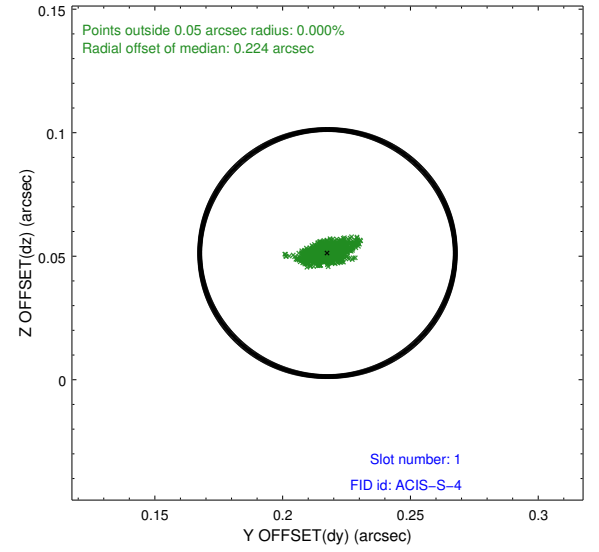
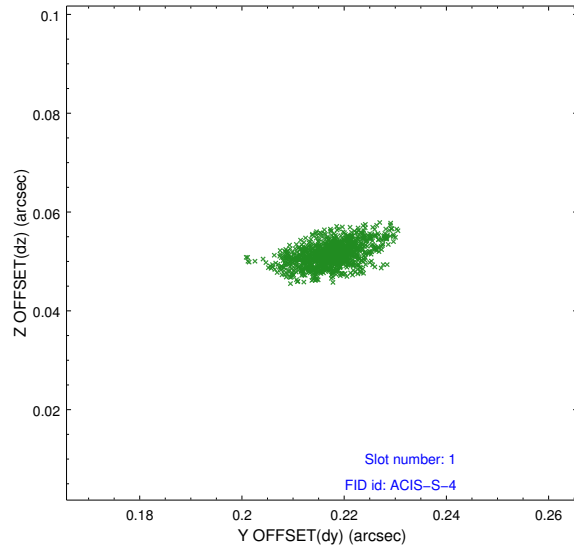


## 2.5 FID Slots

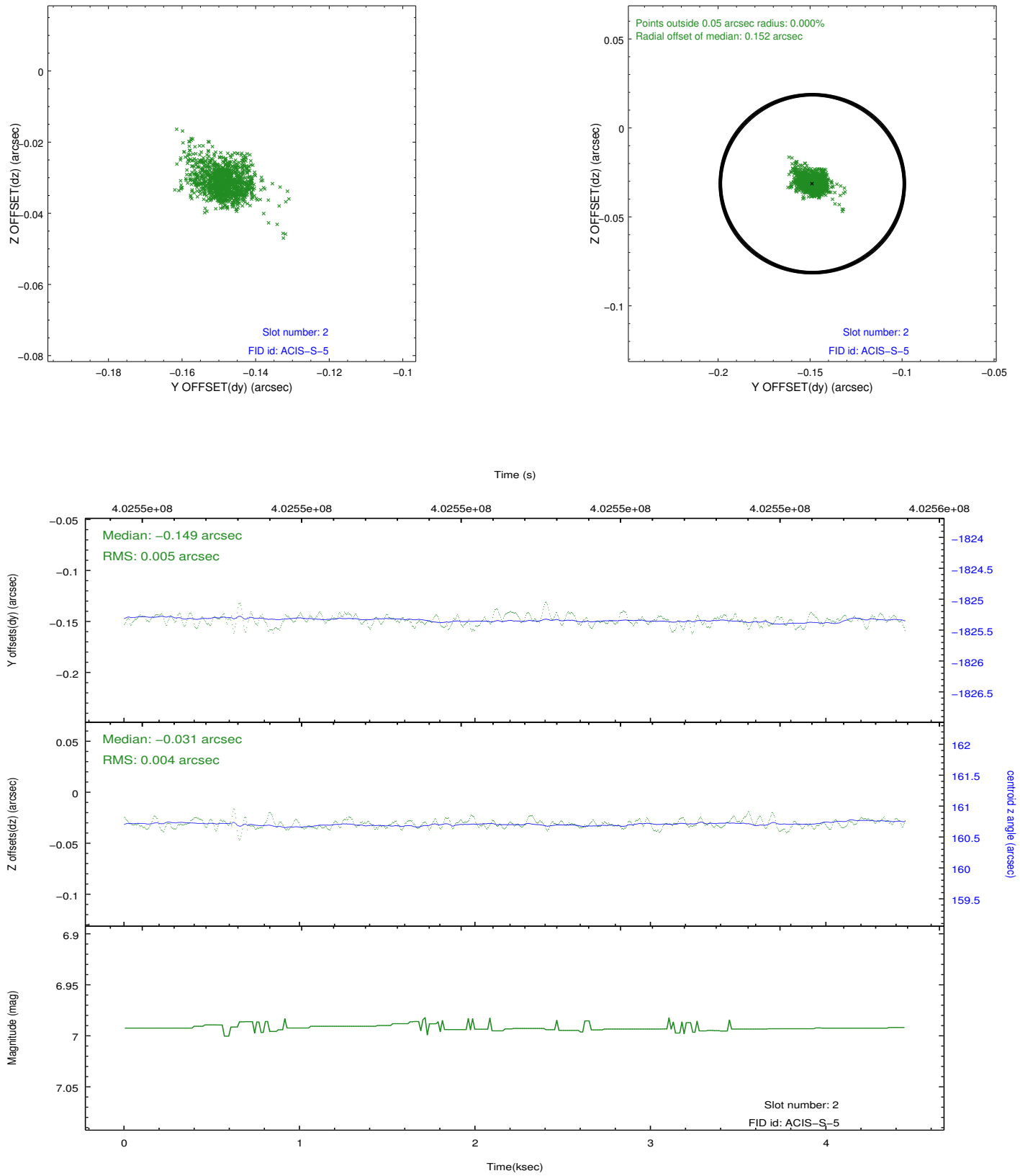
### 2.5.1 Slot 0



## 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)	2012.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0605643504858

### A.2 Comments