

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7778 - L2 Version 2  
Chandra X-Ray Center

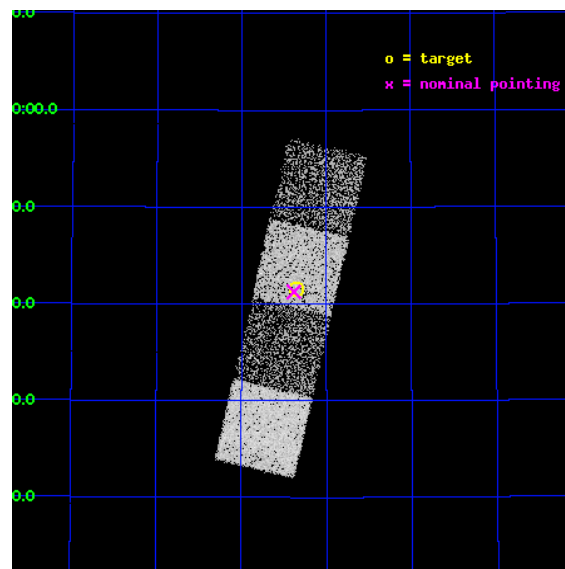
L2 Processing Date : Apr 28 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

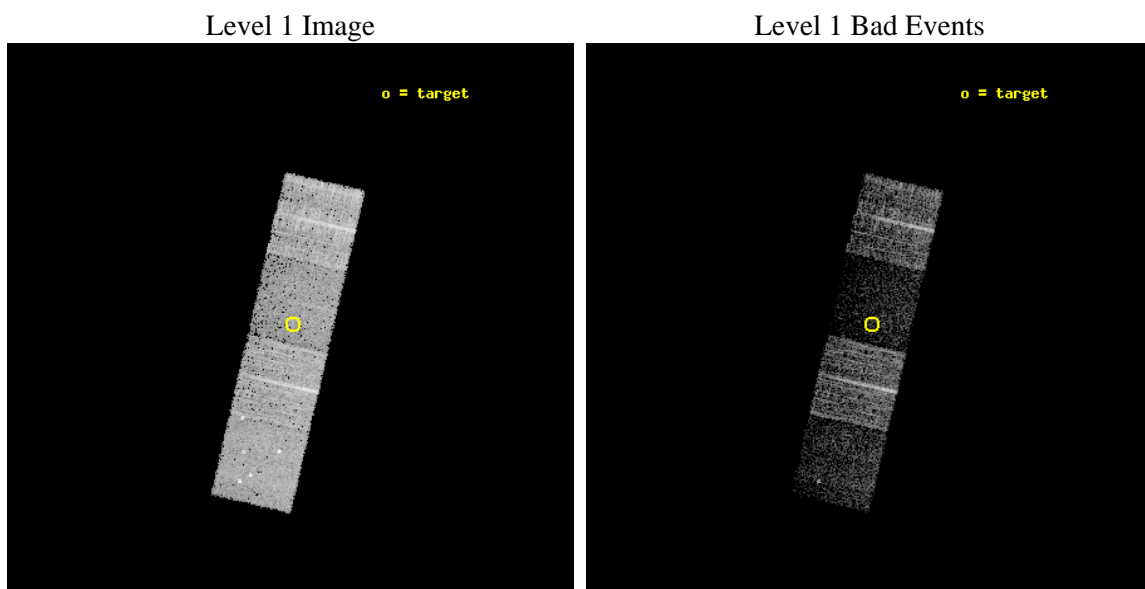
seq_num	701446	Sequence number
obs_id	7778	Observation id
title	An Exploratory Chandra Survey of Weak-Line Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS J1212+5341	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.09	Observer's specified target RA [deg]
dec_targ	53.691083	Observer's specified target Dec [deg]
ra_nom	183.09577571275	Nominal RA [deg]
dec_nom	53.687541304025	Nominal Dec [deg]
roll_nom	283.0834088518	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4181.9000321627	Sum of GTIs [s]
livetime	4127.2604295724	Livetime [s]
ontime5	4181.9000321627	Sum of GTIs [s]
ontime6	4181.9000321627	Sum of GTIs [s]
ontime7	4181.9000321627	Sum of GTIs [s]
ontime8	4181.9000321627	Sum of GTIs [s]
l2events	27251	Number of level 2 events



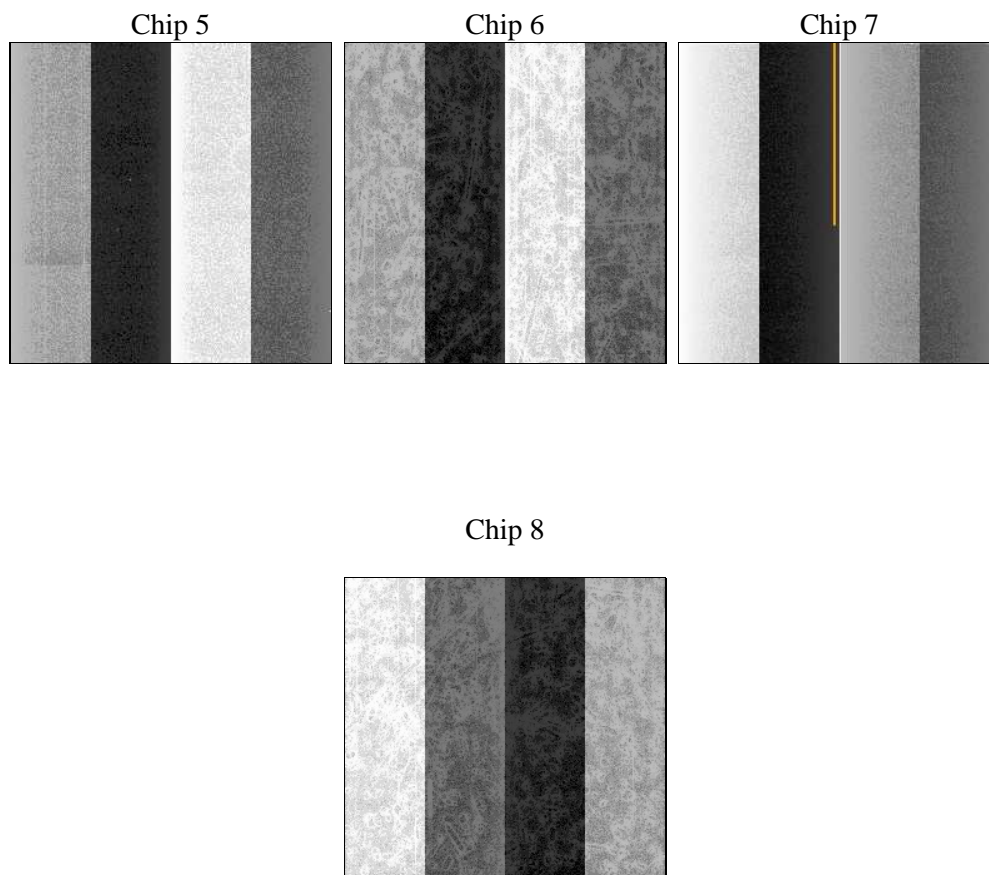
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4181.9000321627	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime5	4181.9000321627	Sum of GTIs [s]
date	2012-04-28T14:05:14	Date and time of file creation	ontime6	4181.9000321627	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	4181.9000321627	Sum of GTIs [s]
			ontime8	4181.9000321627	Sum of GTIs [s]
			l1events	114035	Number of level 1 events

### 2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	28204	31371	17816	36644
rejected events	12236	28844	8434	27567
rejected %	43%	91%	47%	75%

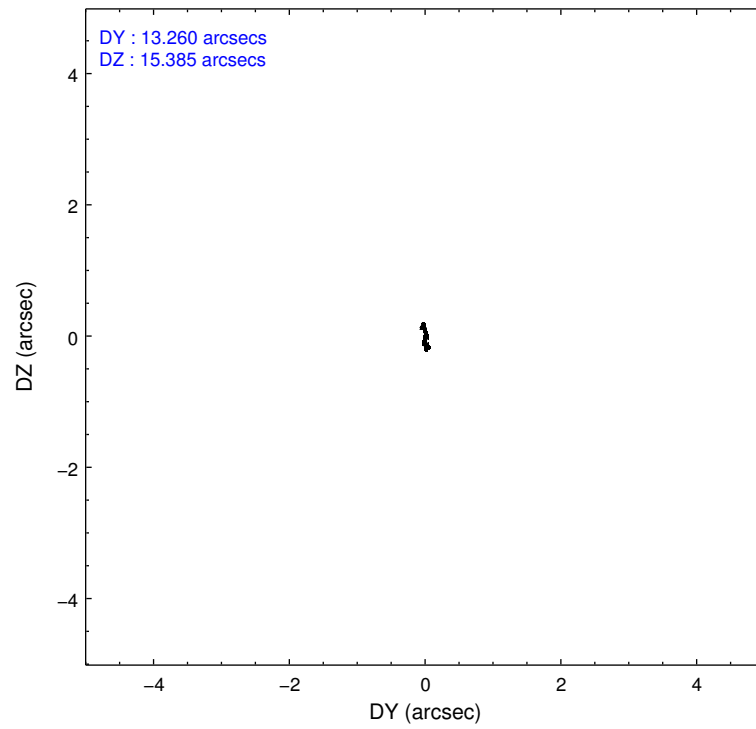
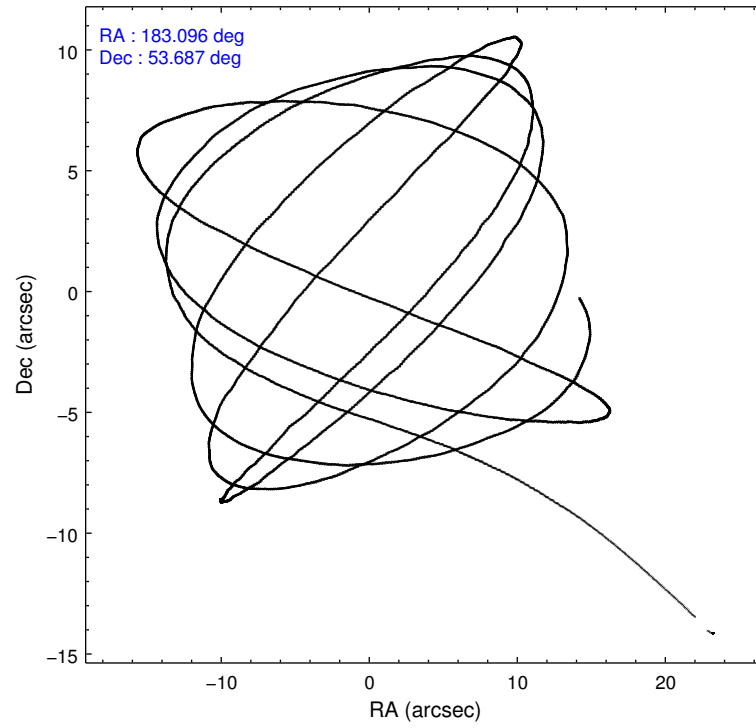
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3140	1137	1330	2904
	11%	3%	7%	7%
grade 1 events	100	14	55	33
	0%	0%	0%	0%
grade 2 events	5255	603	2460	2203
	18%	1%	13%	6%
grade 3 events	1002	294	1057	1199
	3%	0%	5%	3%
grade 4 events	962	301	1059	1040
	3%	0%	5%	2%
grade 5 events	2278	586	1800	1002
	8%	1%	10%	2%
grade 6 events	7175	439	4337	2609
	25%	1%	24%	7%
grade 7 events	8292	27997	5718	25654
	29%	89%	32%	70%

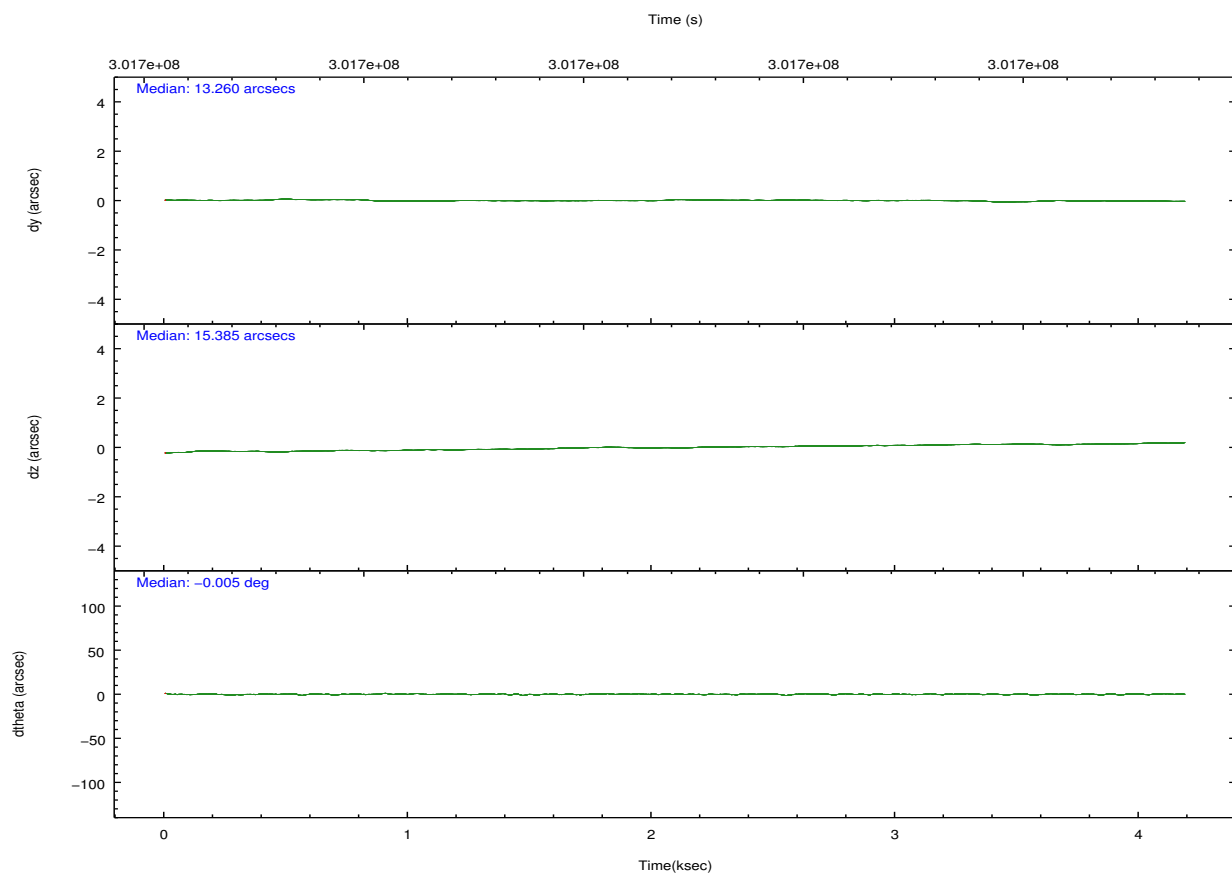
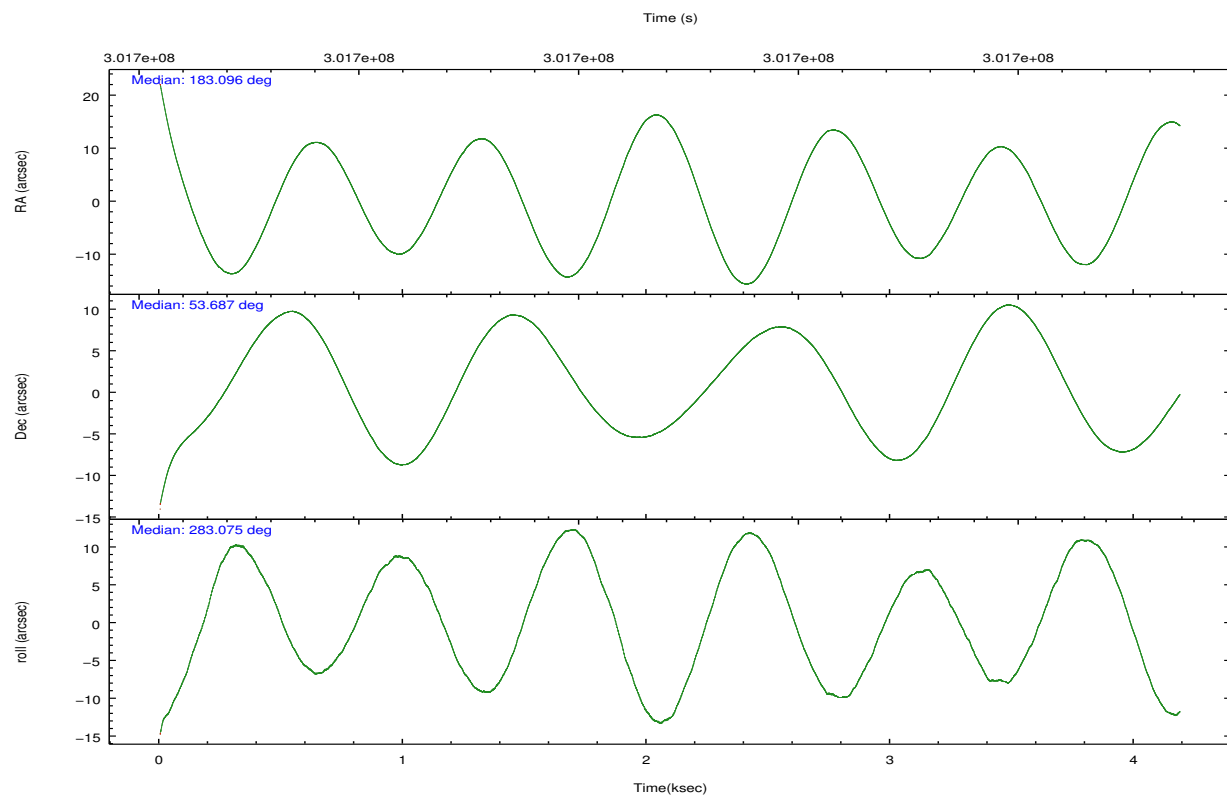


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	183.063756	183.0957757127471	Subarray requested	NONE	NONE
[deg] Pointing Dec	53.707341	53.68754130402514	Alternating exposures requested	N	N
[deg] Pointing Roll	282.952566	283.083408851796	[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)	301700513.184000	301699382.53619			
Observation start date	2007-07-24T21:40:48	2007-07-24T21:23:02			
[s] Observation end time (MET)	301704513.184000	301704843.73646			
Observation end date	2007-07-24T22:47:28	2007-07-24T22:54:03			
Read mode	TIMED	TIMED			

## 2.3 Aspect



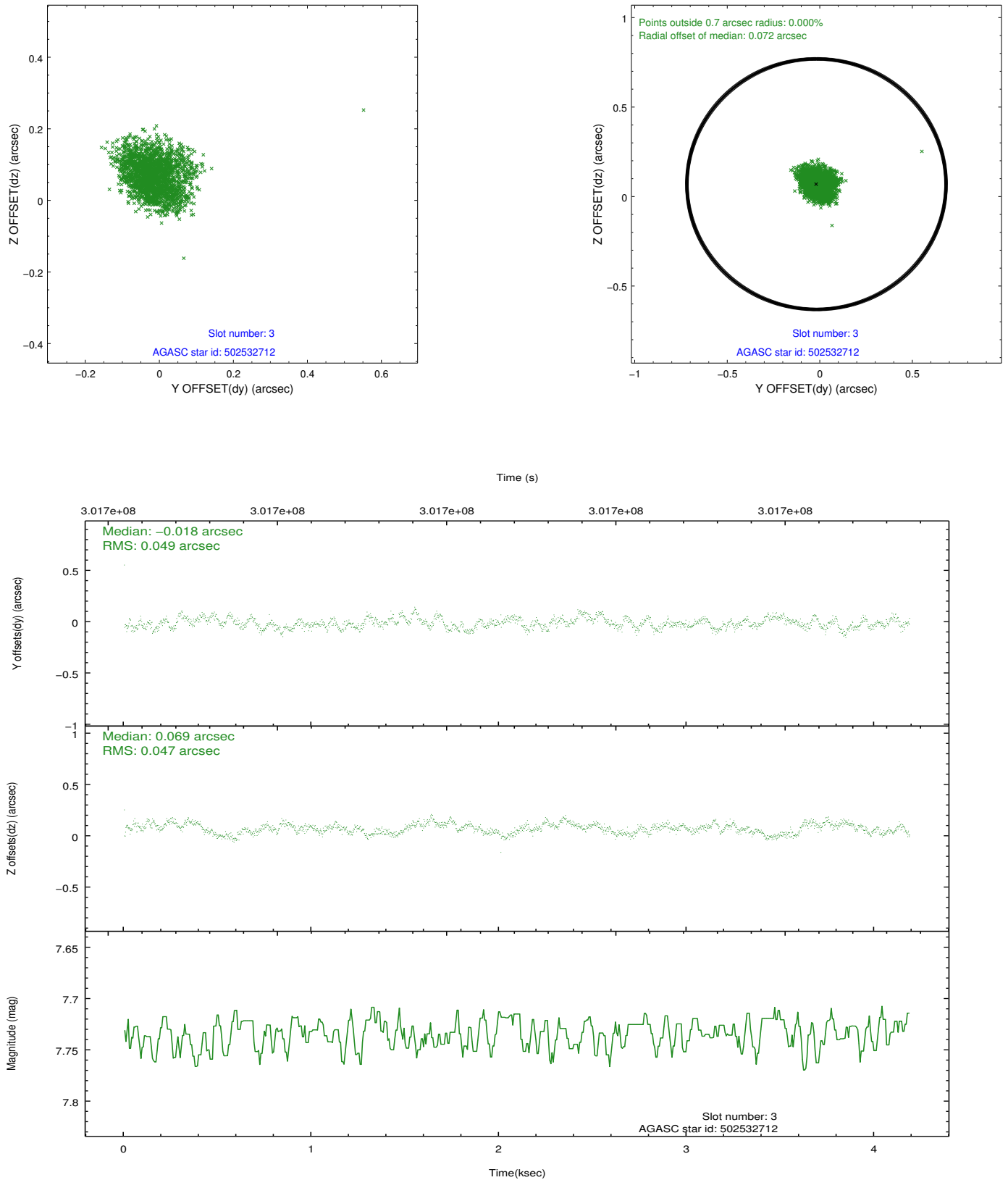


### Slot Statistics

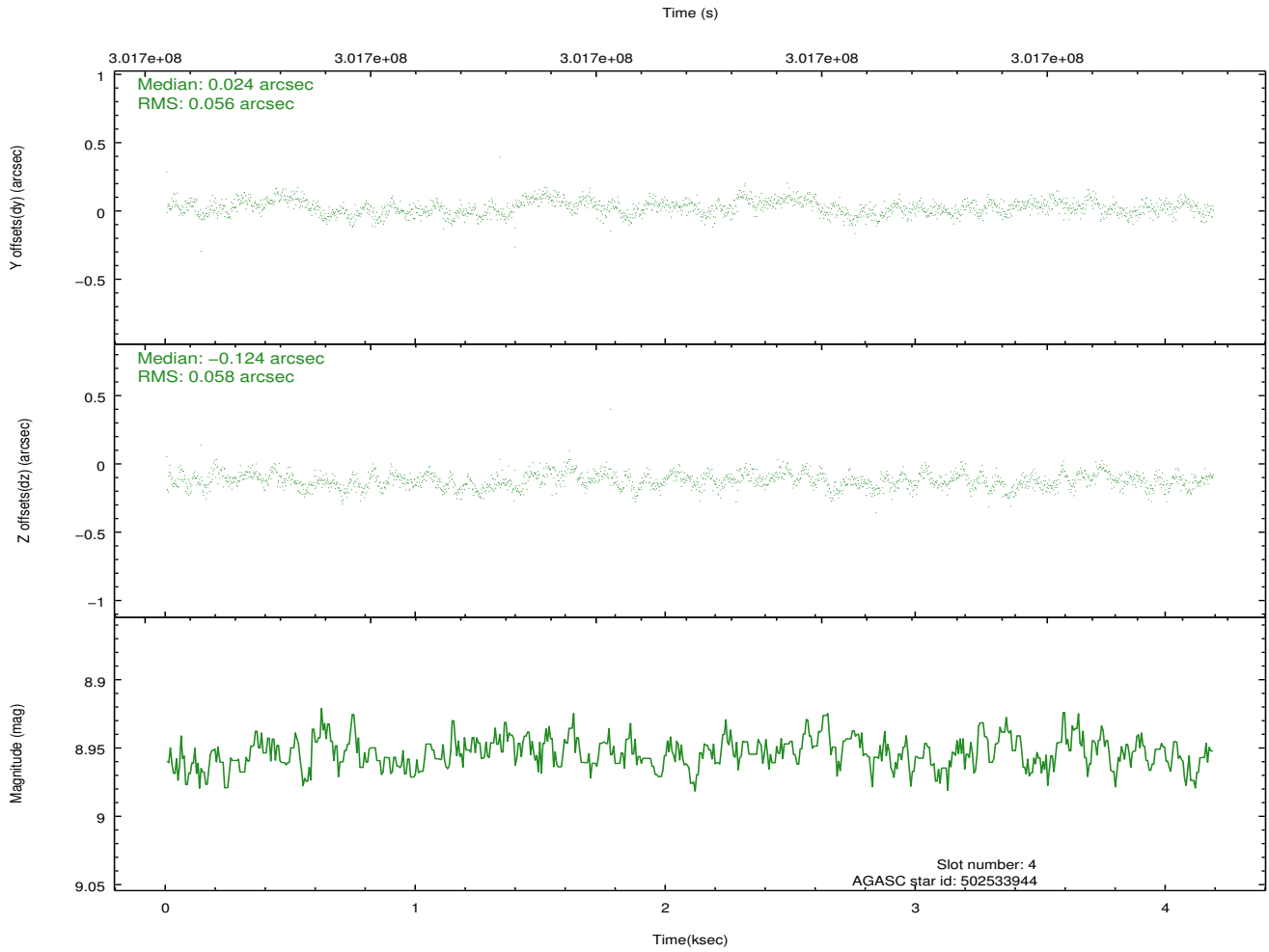
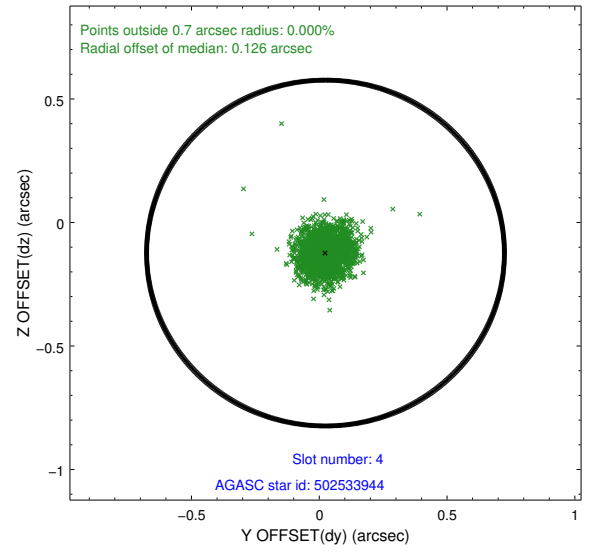
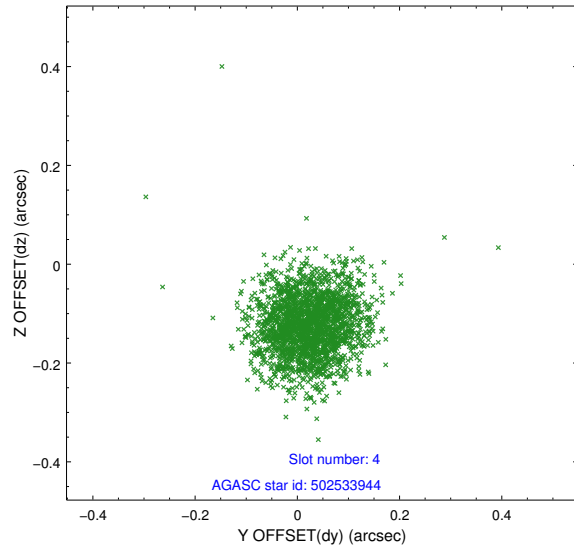
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1022	-0.059	-0.031	0.007	0.011	0.000000	0.000000	-766.22	-1736.81
1	FID	ACIS-S-4	7.19	1022	0.197	0.037	0.006	0.010	0.000000	0.000000	2146.61	170.24
2	FID	ACIS-S-5	7.22	1021	-0.169	0.002	0.006	0.010	0.000000	0.000000	-1817.29	165.51
3	GUIDE	502532712	7.73	2042	-0.018	0.069	0.073	0.115	182.335797	53.394501	740.73	-1772.78
4	GUIDE	502533944	8.95	2041	0.024	-0.124	0.084	0.136	183.943142	53.853399	-105.15	1939.30
5	GUIDE	502534440	7.99	2043	-0.000	0.036	0.071	0.108	182.264015	53.672335	-268.63	-1687.02
6	GUIDE	502535672	9.52	2042	-0.045	0.025	0.156	0.233	183.570927	54.179594	-1421.47	1422.56
7	GUIDE	502537344	8.75	2041	0.041	-0.004	0.064	0.110	183.382634	53.229908	1826.96	285.74

## 2.4 Star Slots

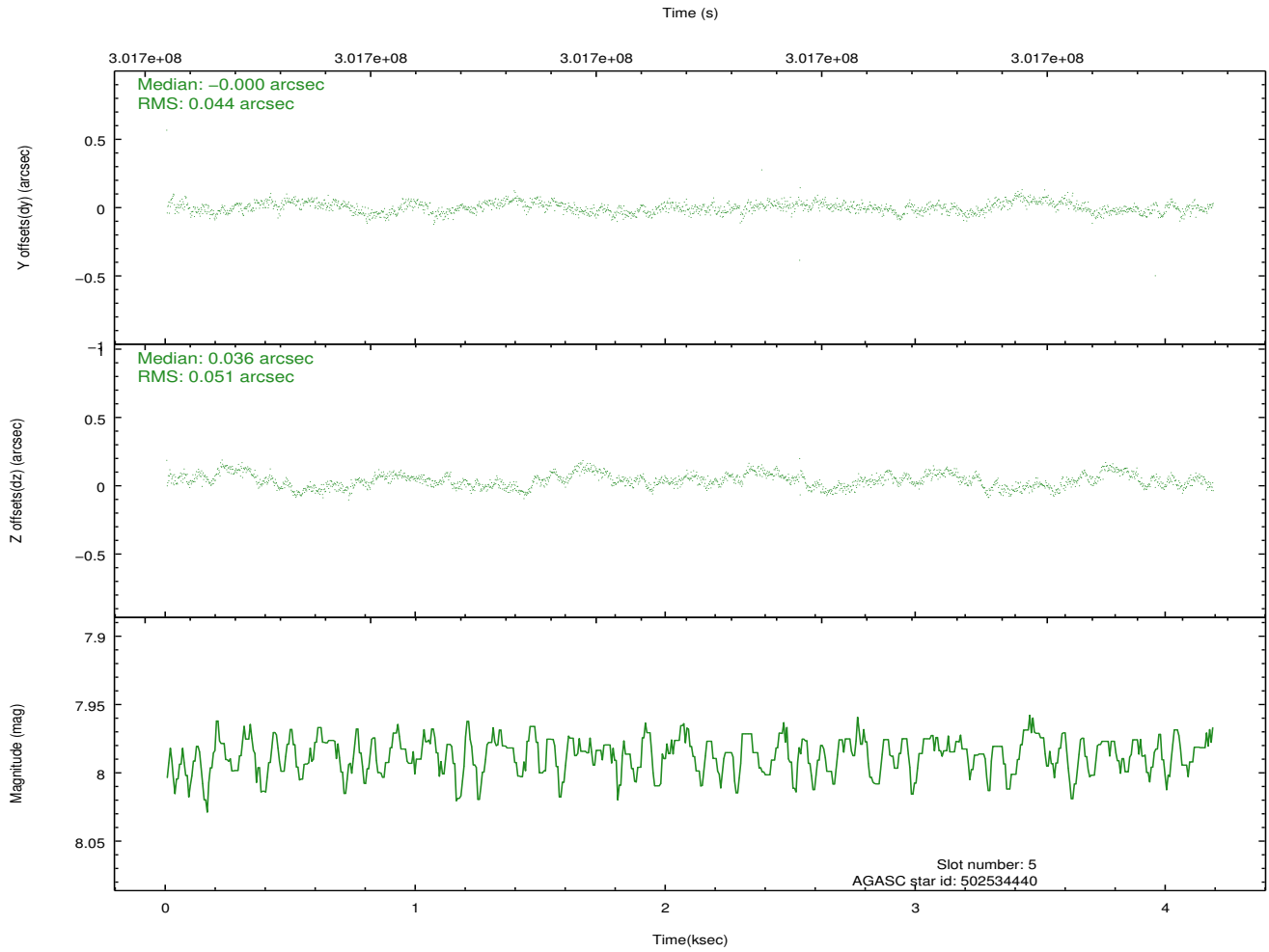
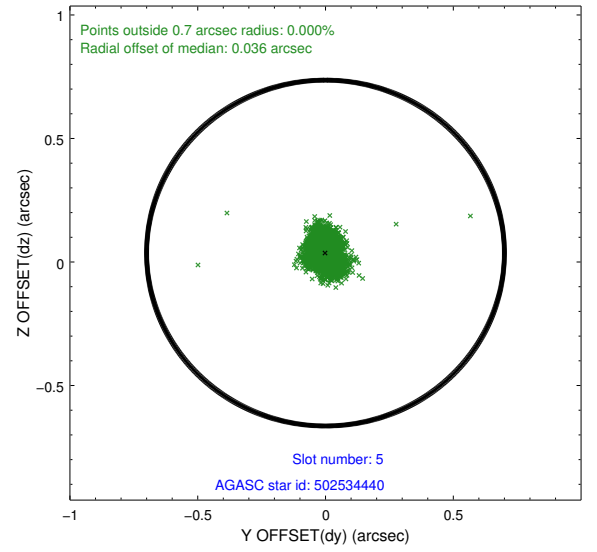
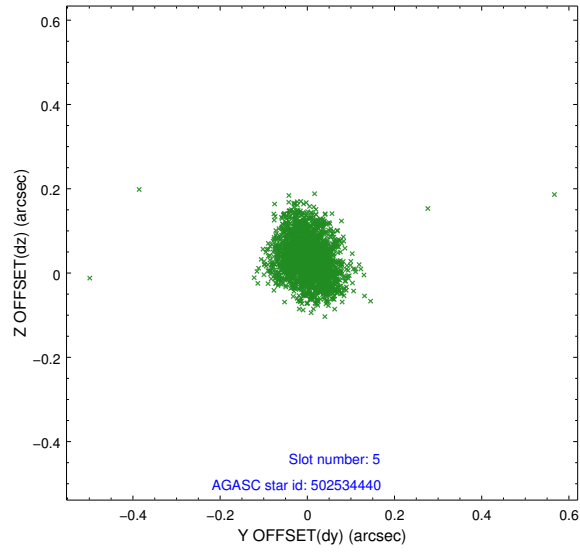
### 2.4.1 Slot 3



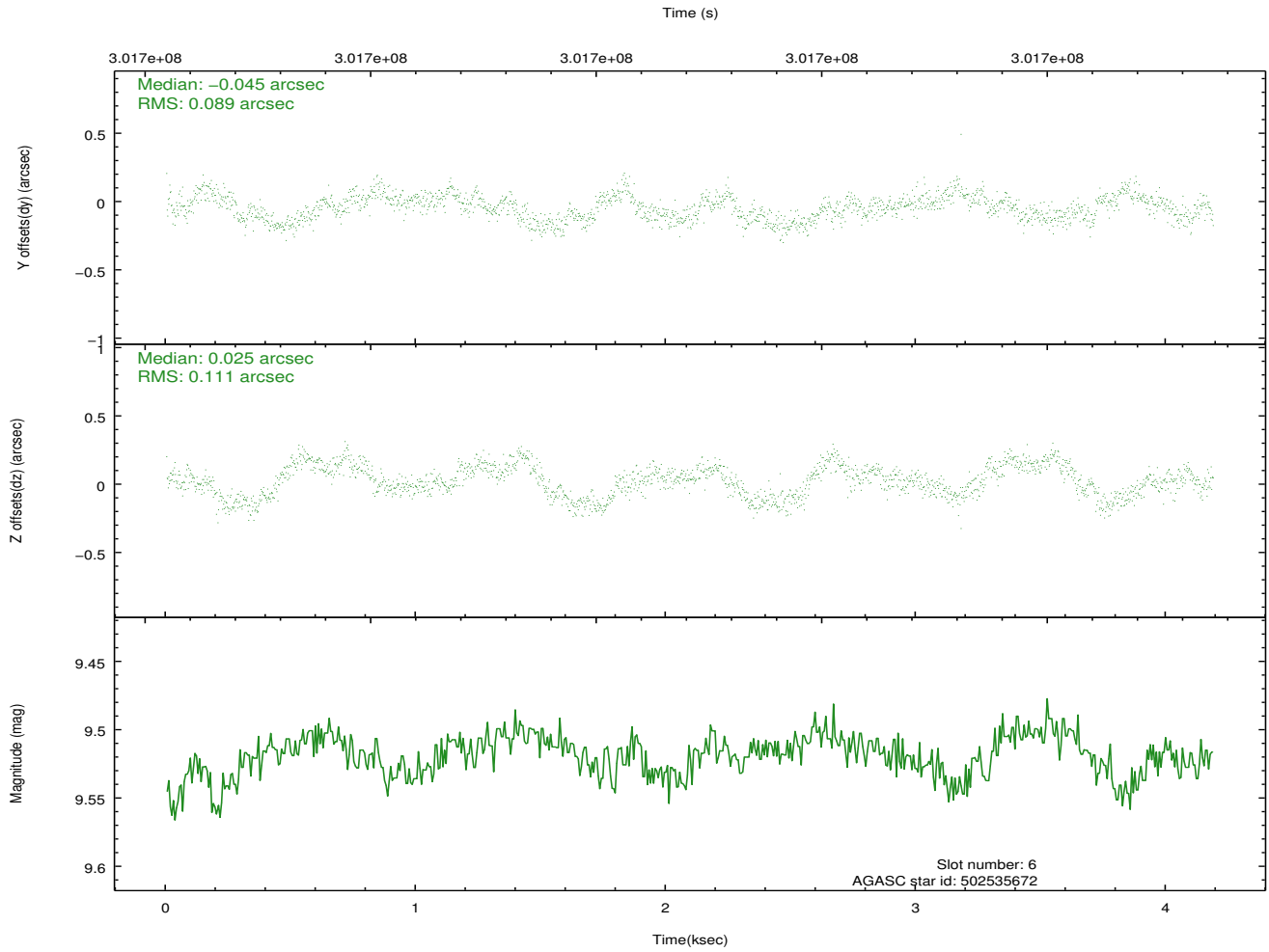
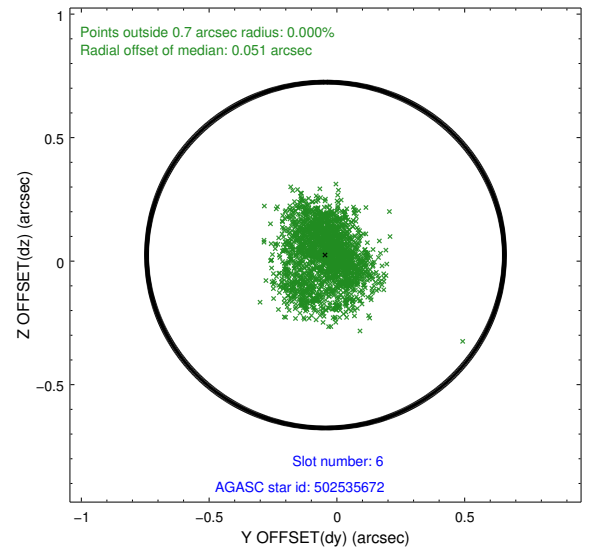
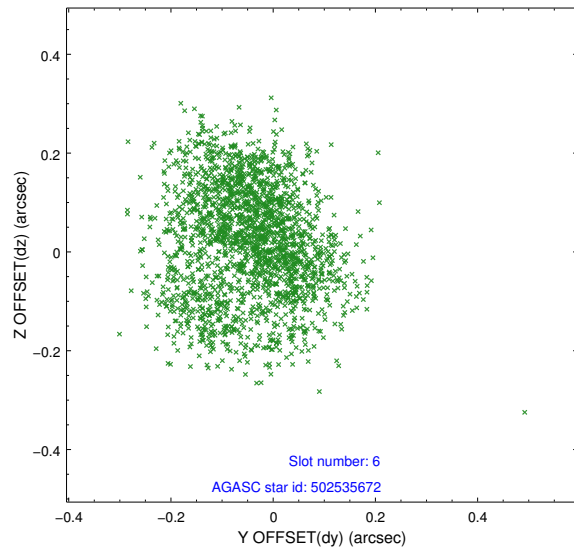
## 2.4.2 Slot 4



### 2.4.3 Slot 5

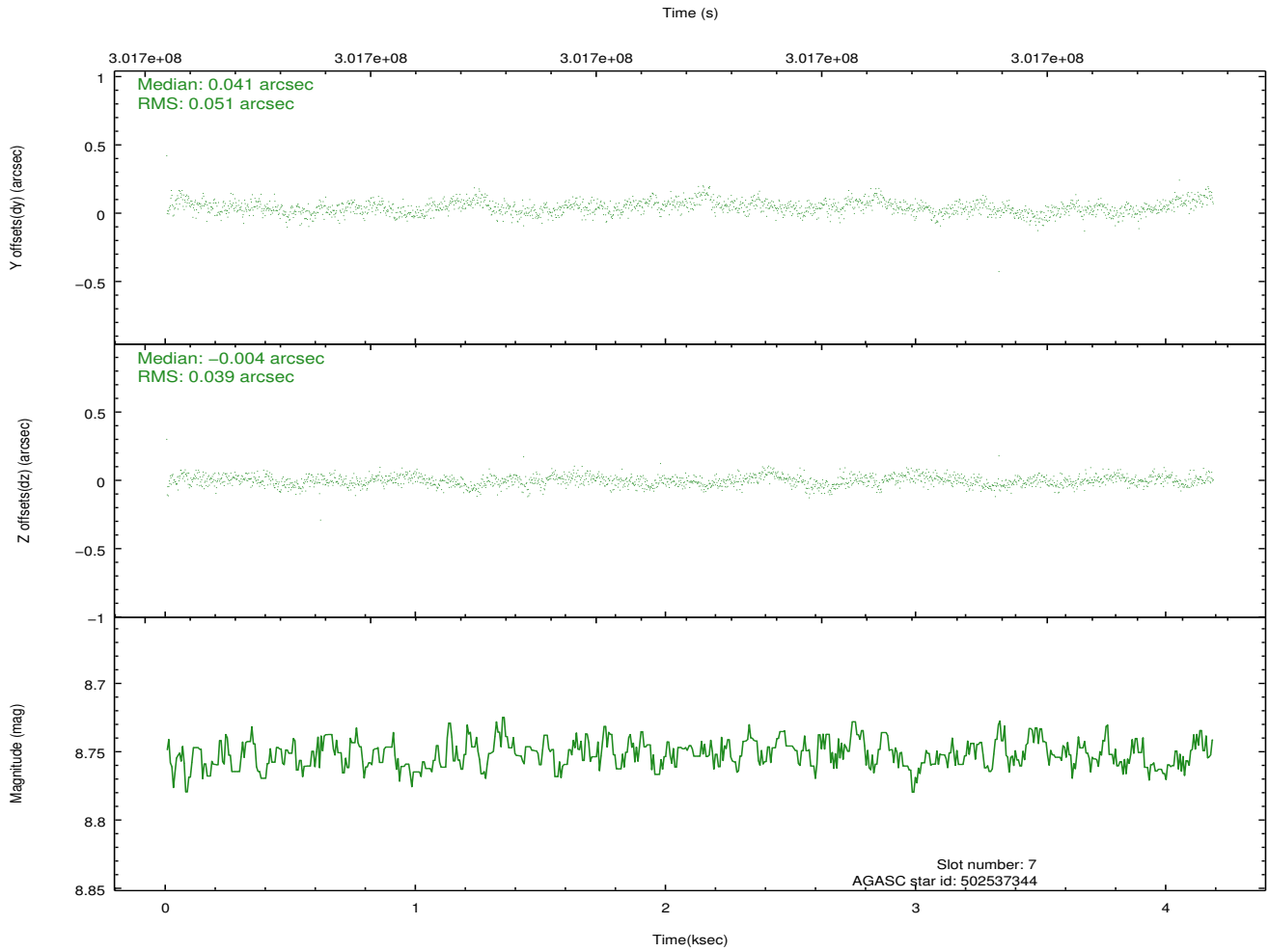
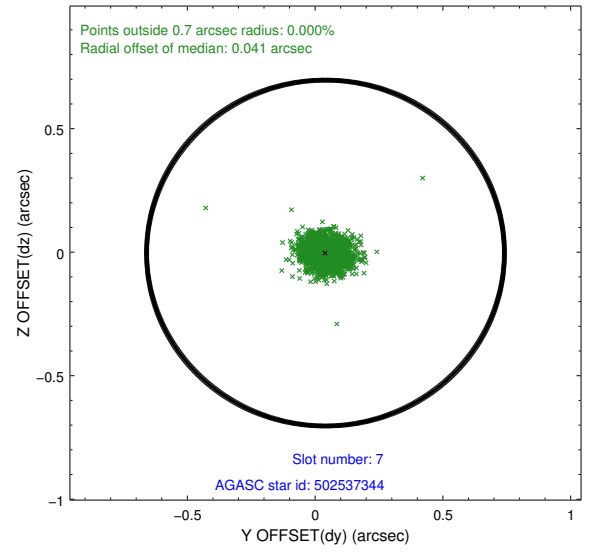
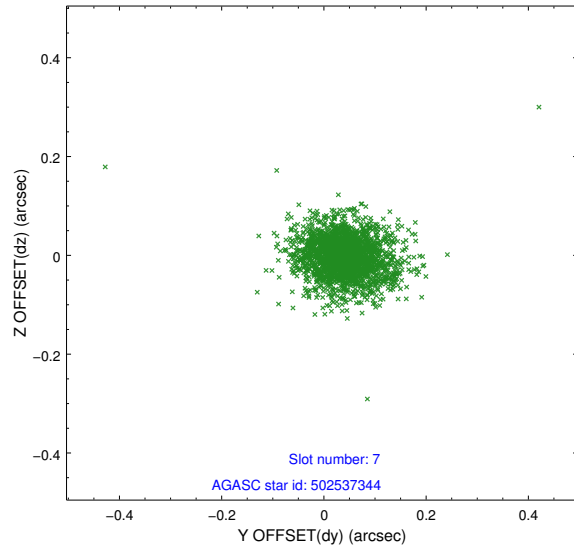


## 2.4.4 Slot 6



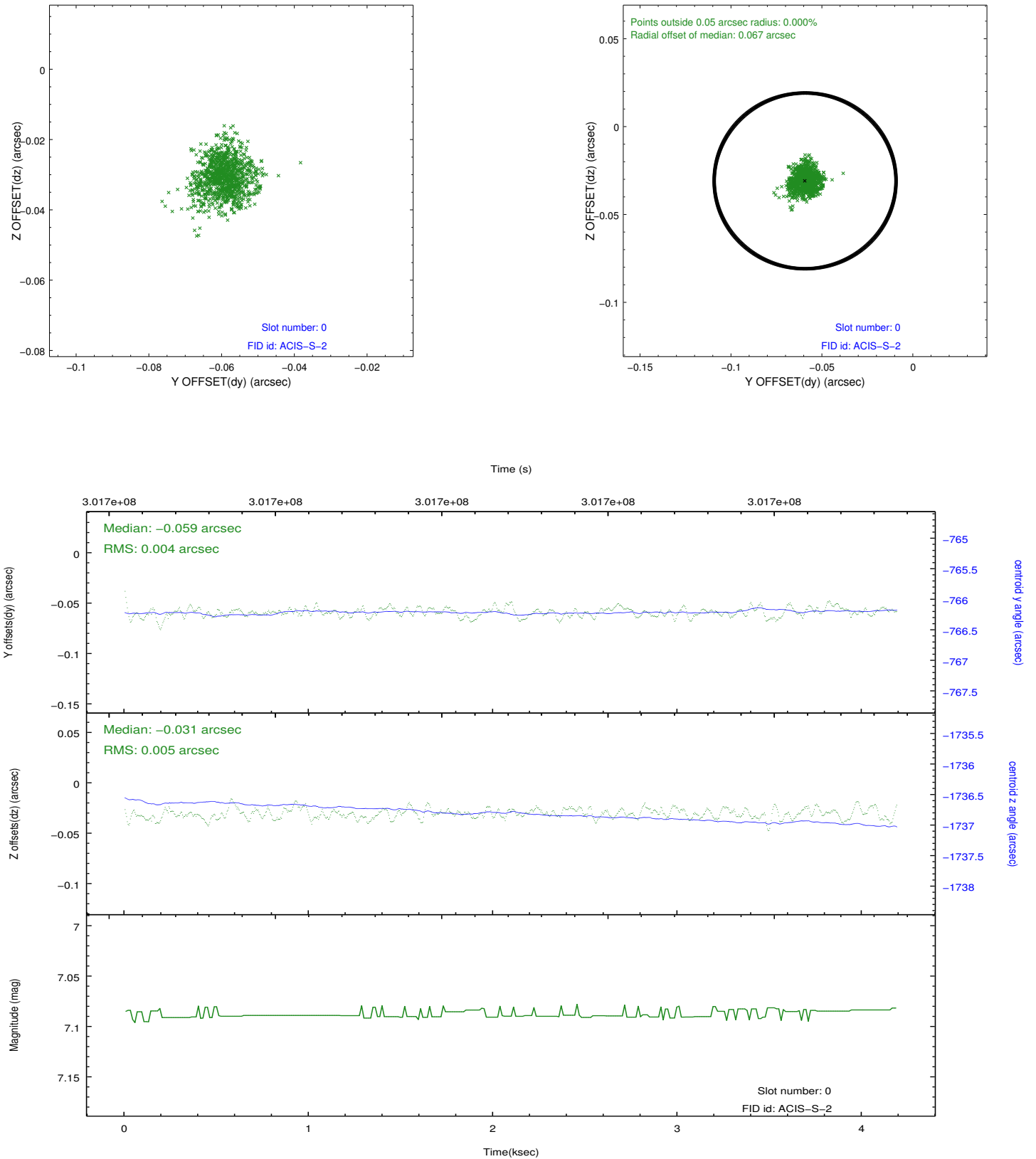


## 2.4.5 Slot 7

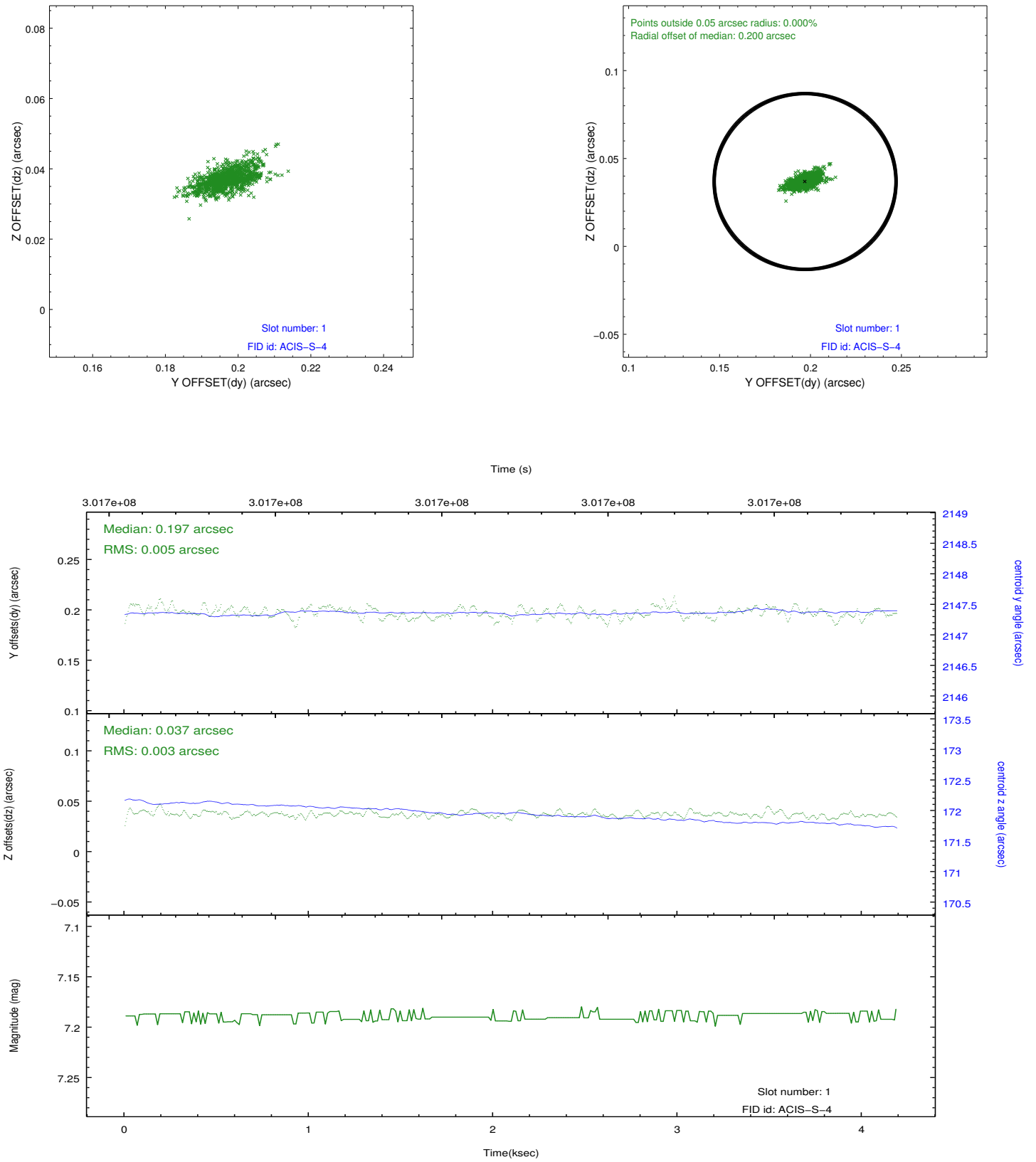


## 2.5 FID Slots

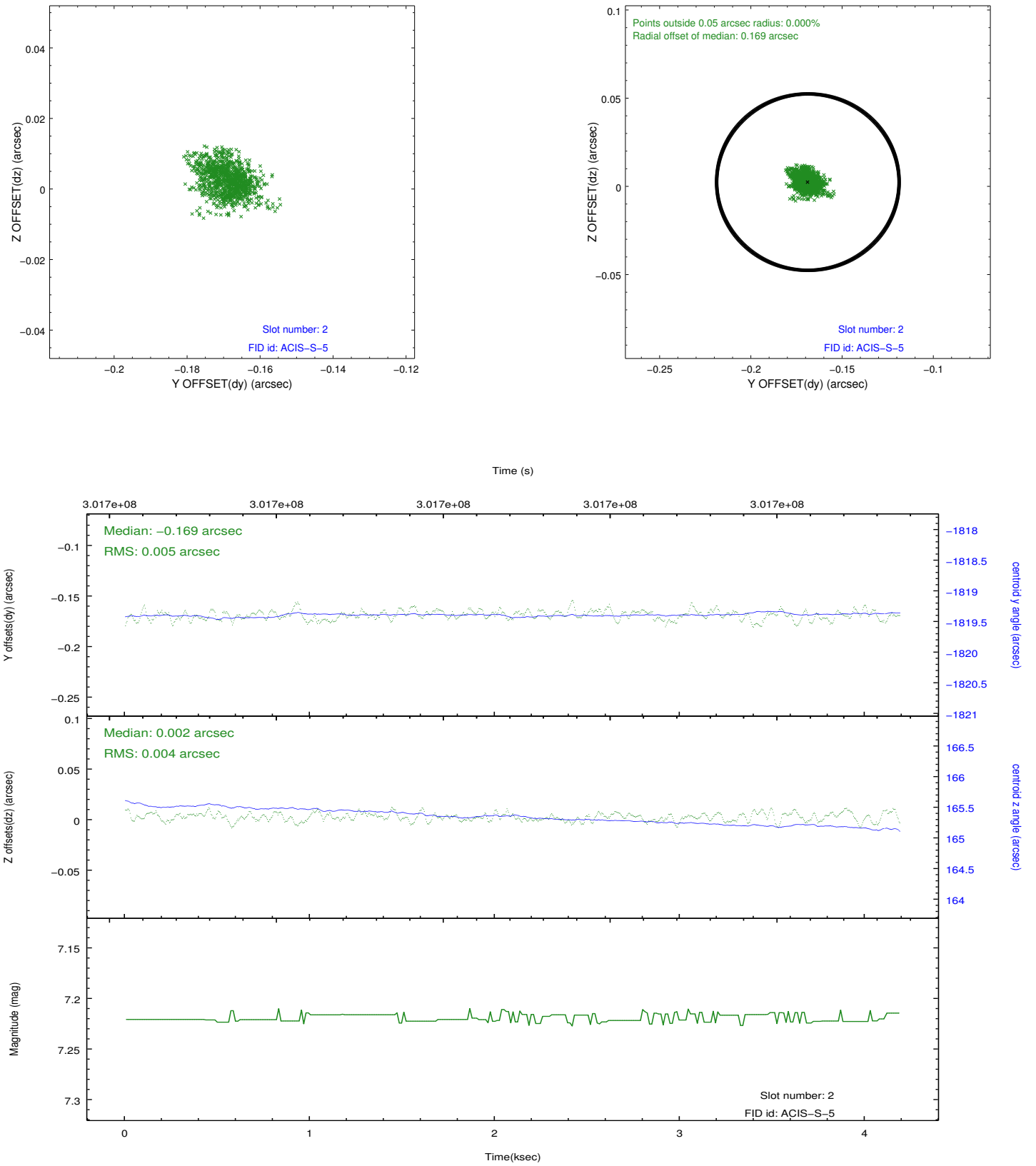
### 2.5.1 Slot 0



## 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)	2012.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.18190003

### A.2 Comments