

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4803 - L2 Version 3  
Chandra X-Ray Center

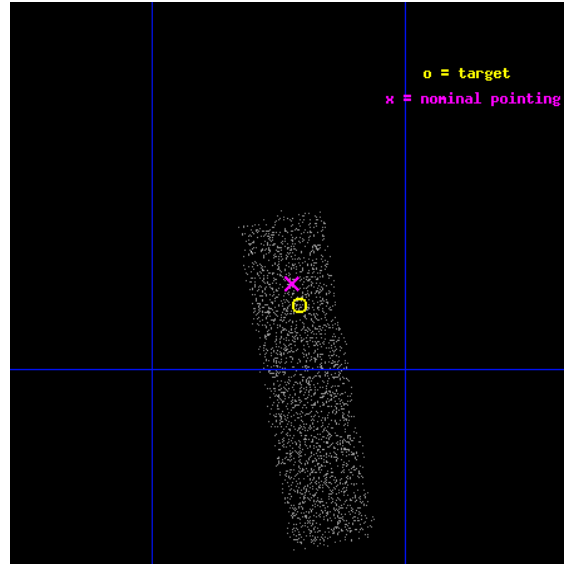
L2 Processing Date : Nov 7 2012

## 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

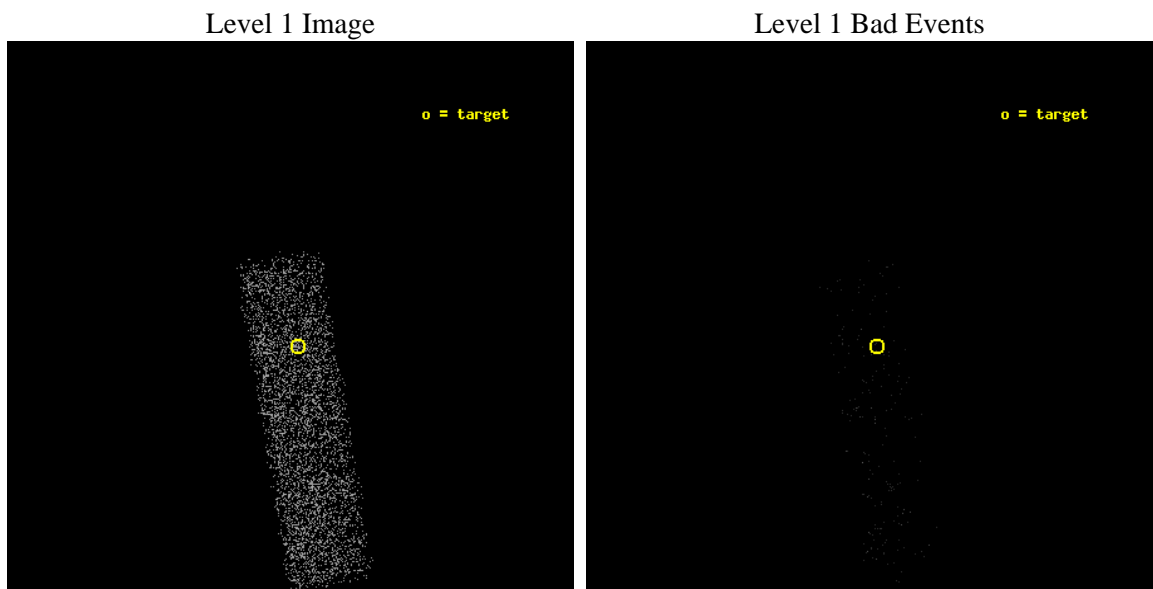
seq_num	700886	Sequence number
obs_id	4803	Observation id
title	Unveiling the engine powering OH Gigamaser sources through X-rays. A well-defined Chandra survey	Proposal title
observer	Dr Cristian Vignali	Principal investigator
object	IRAS FSC 08201+2801	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	125.8025	Observer's specified target RA [deg]
dec_targ	27.861	Observer's specified target Dec [deg]
ra_nom	125.80601336137	Nominal RA [deg]
dec_nom	27.870077084263	Nominal Dec [deg]
roll_nom	80.576781608502	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4638.4000691175	Sum of GTIs [s]
livetime	4412.0613232356	Livetime [s]
ontime7	4638.4000691175	Sum of GTIs [s]
l2events	2808	Number of level 2 events



## 2 OBI

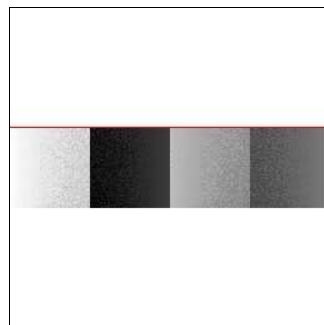
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4477.847000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4638.4000691175	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	4638.4000691175	Sum of GTIs [s]
date	2012-11-08T02:07:34	Date and time of file creation	l1events	5971	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	5971
rejected events	3069
rejected %	51%

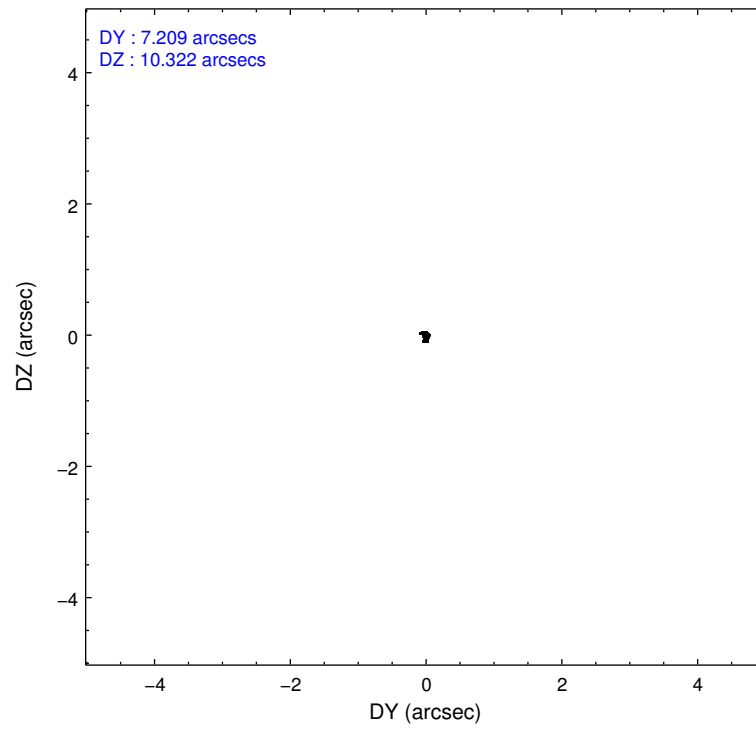
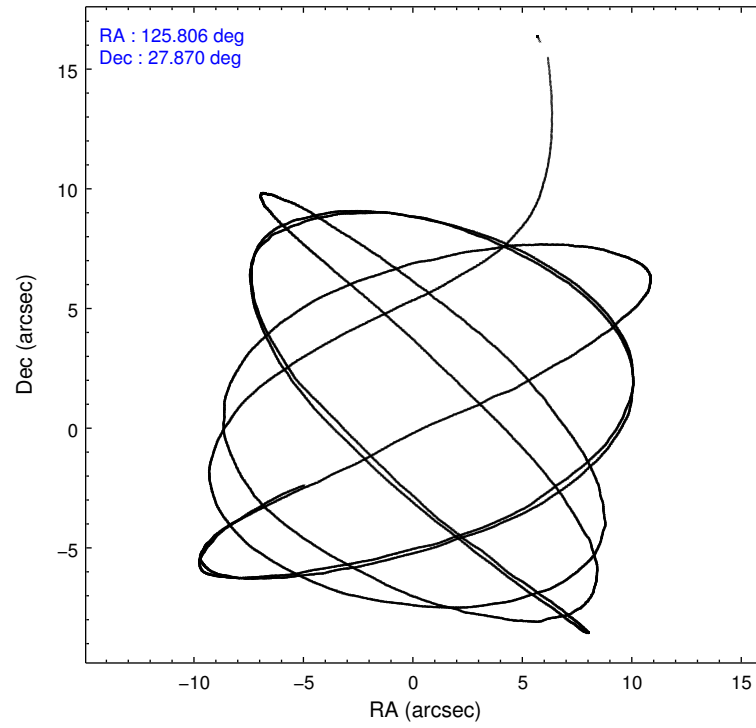
	<b>ccd 7</b>
grade 0 events	411
	6%
grade 1 events	6
	0%
grade 2 events	715
	11%
grade 3 events	429
	7%
grade 4 events	394
	6%
grade 5 events	591
	9%
grade 6 events	1442
	24%
grade 7 events	1983
	33%

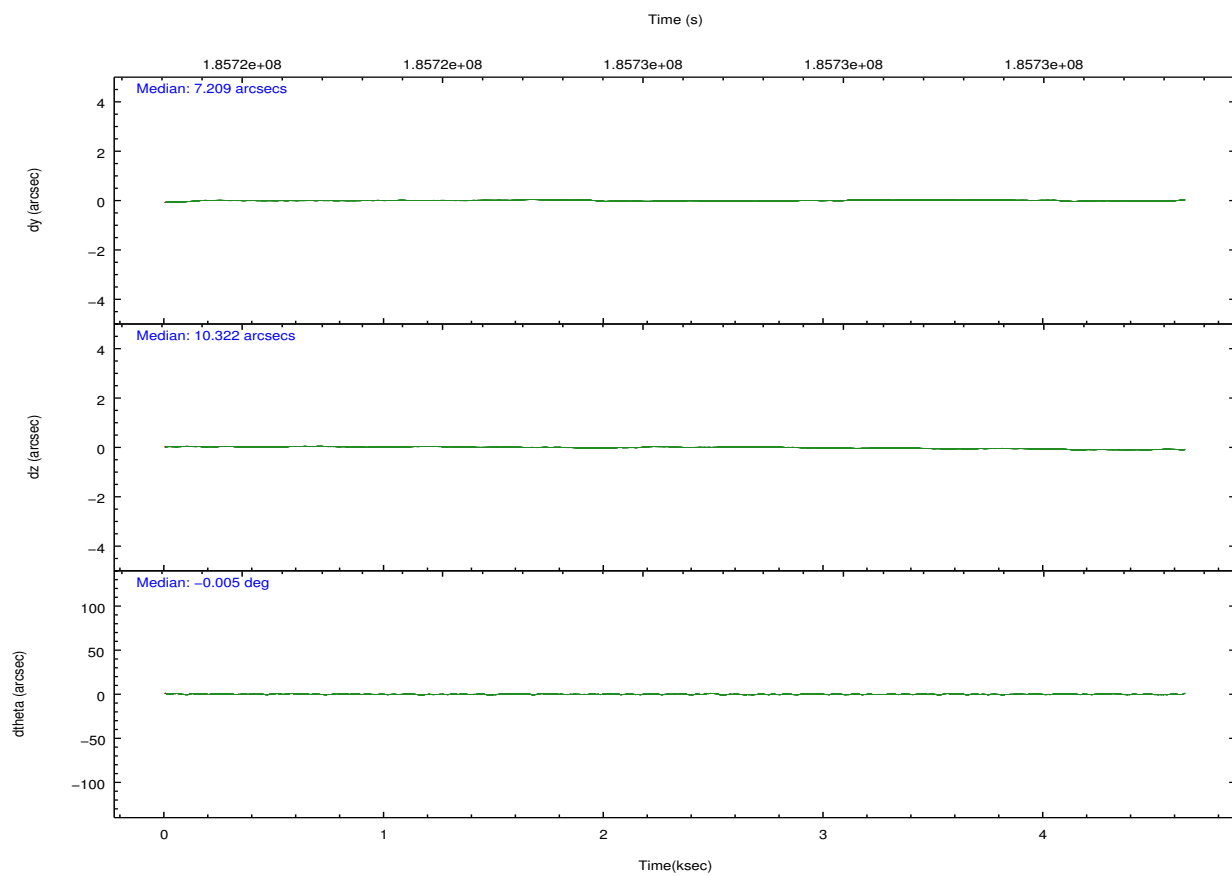
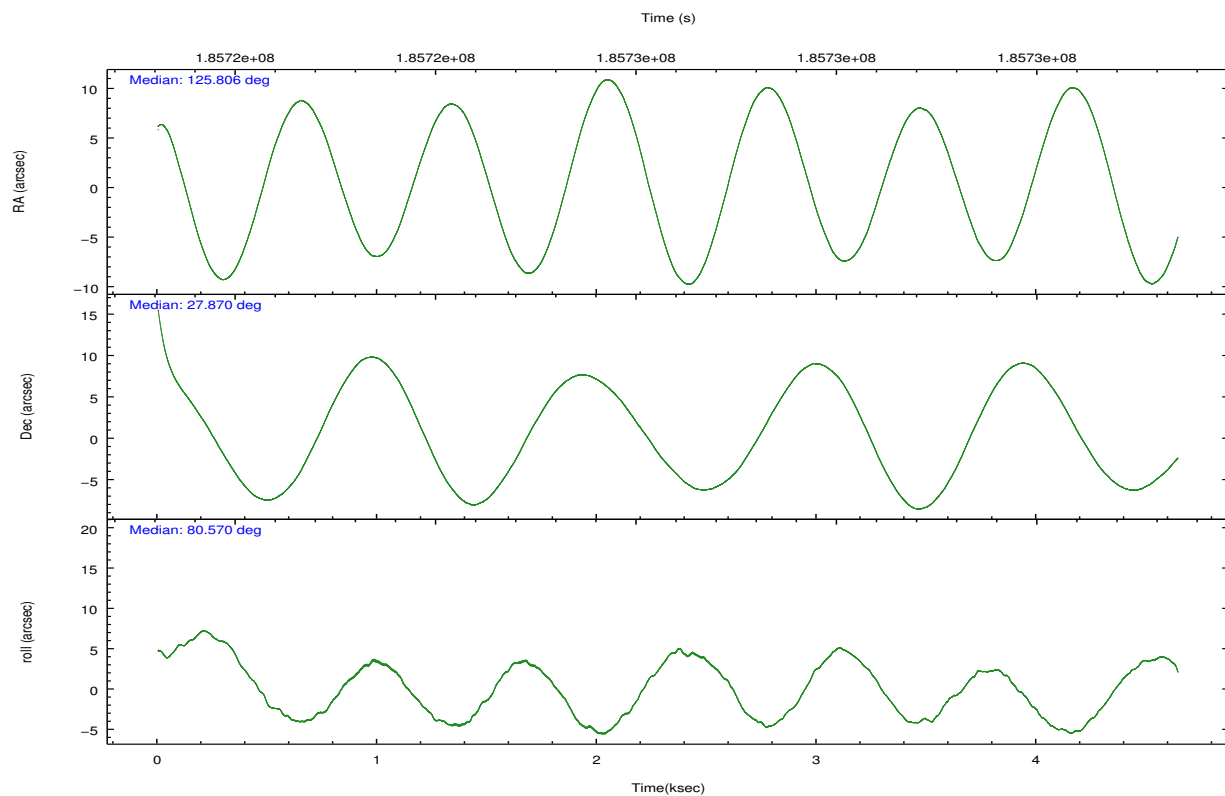


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	125.817361	125.8060133613693	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	27.844748	27.87007708426336	Subarray start row	385	385
[deg] Pointing Roll	80.414841	80.57678160850162	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	185724009.184000	185722937.56758			
Observation start date	2003-11-20T13:59:05	2003-11-20T13:42:17			
[s] Observation end time (MET)	185728487.184000	185728801.59283			
Observation end date	2003-11-20T15:13:43	2003-11-20T15:20:01			
Read mode	TIMED	TIMED			

## 2.3 Aspect



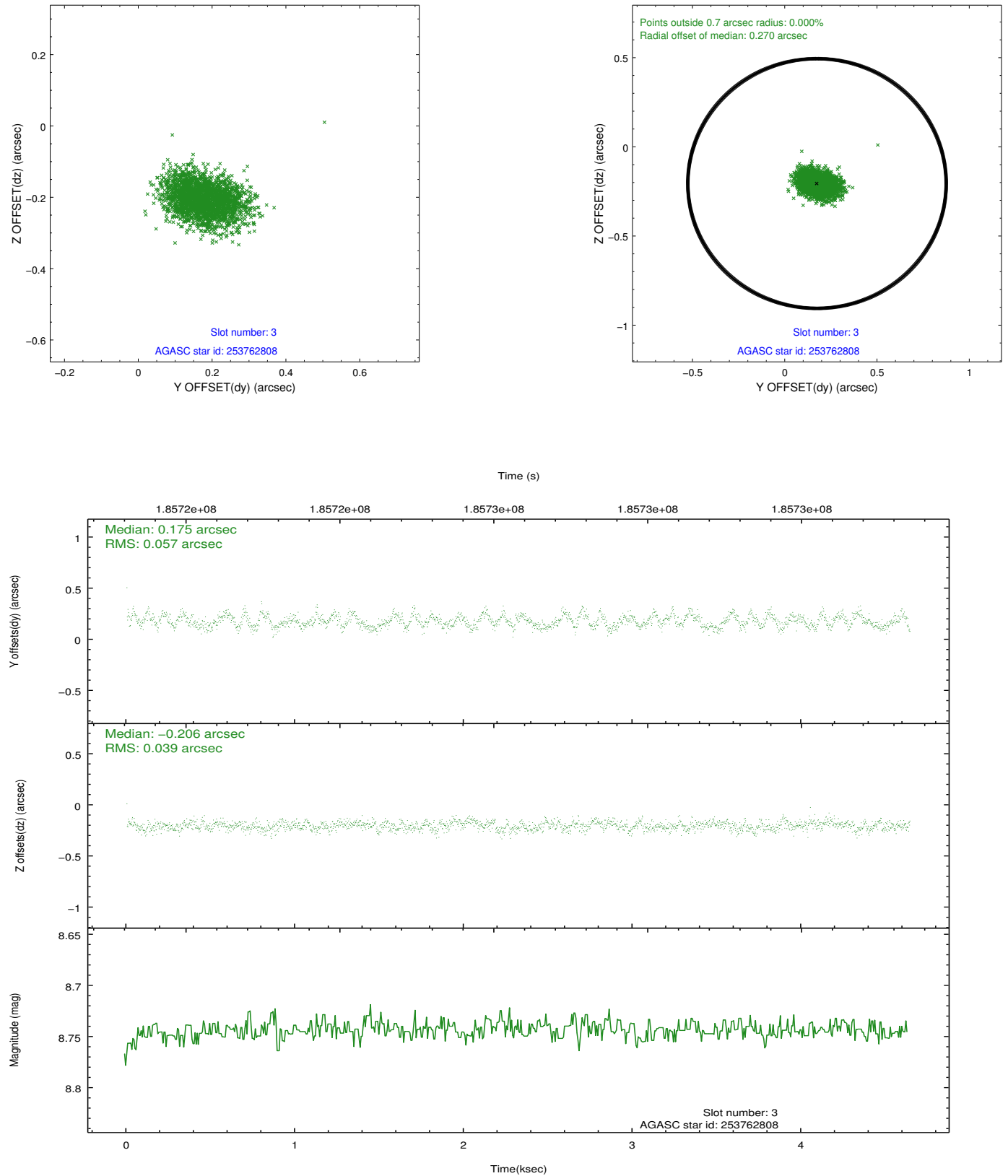


### Slot Statistics

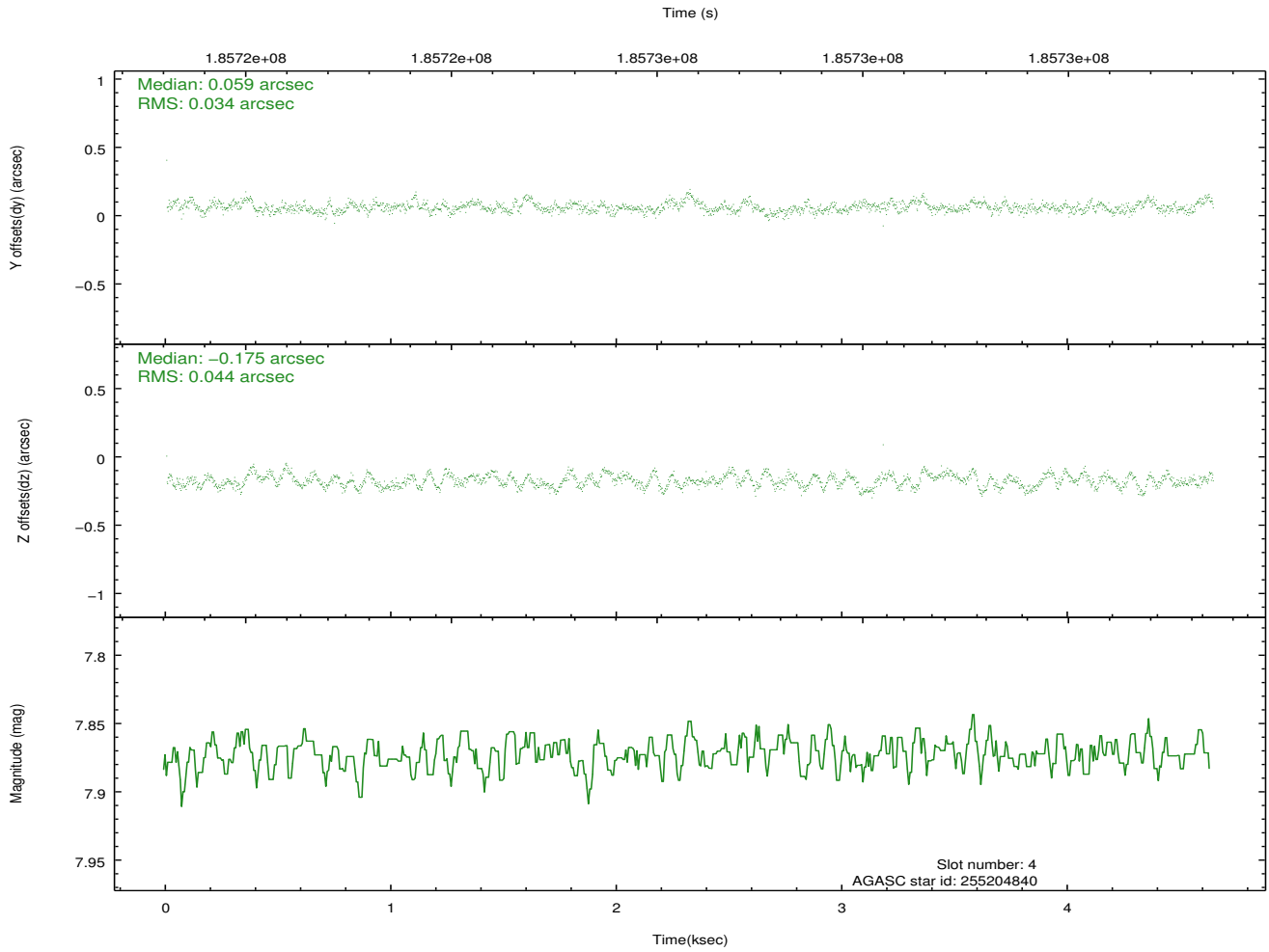
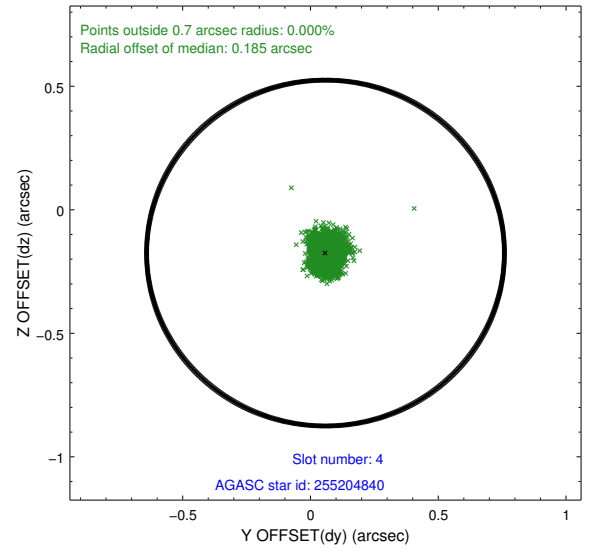
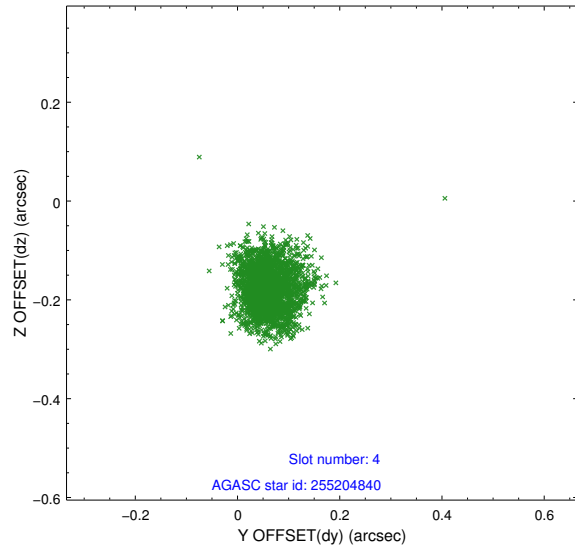
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	1133	0.001	-0.032	0.007	0.011	0.000000	0.000000	936.07	-1727.22
1	FID	ACIS-S-4	7.20	1133	0.043	0.026	0.006	0.010	0.000000	0.000000	2154.25	175.64
2	FID	ACIS-S-5	7.23	1132	-0.071	0.019	0.006	0.010	0.000000	0.000000	-1811.18	170.70
3	GUIDE	253762808	8.74	2265	0.175	-0.206	0.073	0.120	125.270454	27.352773	-2033.42	1429.52
4	GUIDE	255204840	7.87	2264	0.059	-0.175	0.059	0.094	125.701015	27.523786	-1201.54	174.03
5	GUIDE	253760320	9.02	2265	-0.094	-0.152	0.081	0.128	125.278284	28.087651	580.38	1834.29
6	GUIDE	254821296	9.56	2265	0.050	0.311	0.095	0.156	126.432453	27.087260	-2354.94	-2396.65
7	GUIDE	255199688	7.89	2263	-0.191	0.220	0.072	0.115	126.529946	28.402975	2363.25	-1890.14

## 2.4 Star Slots

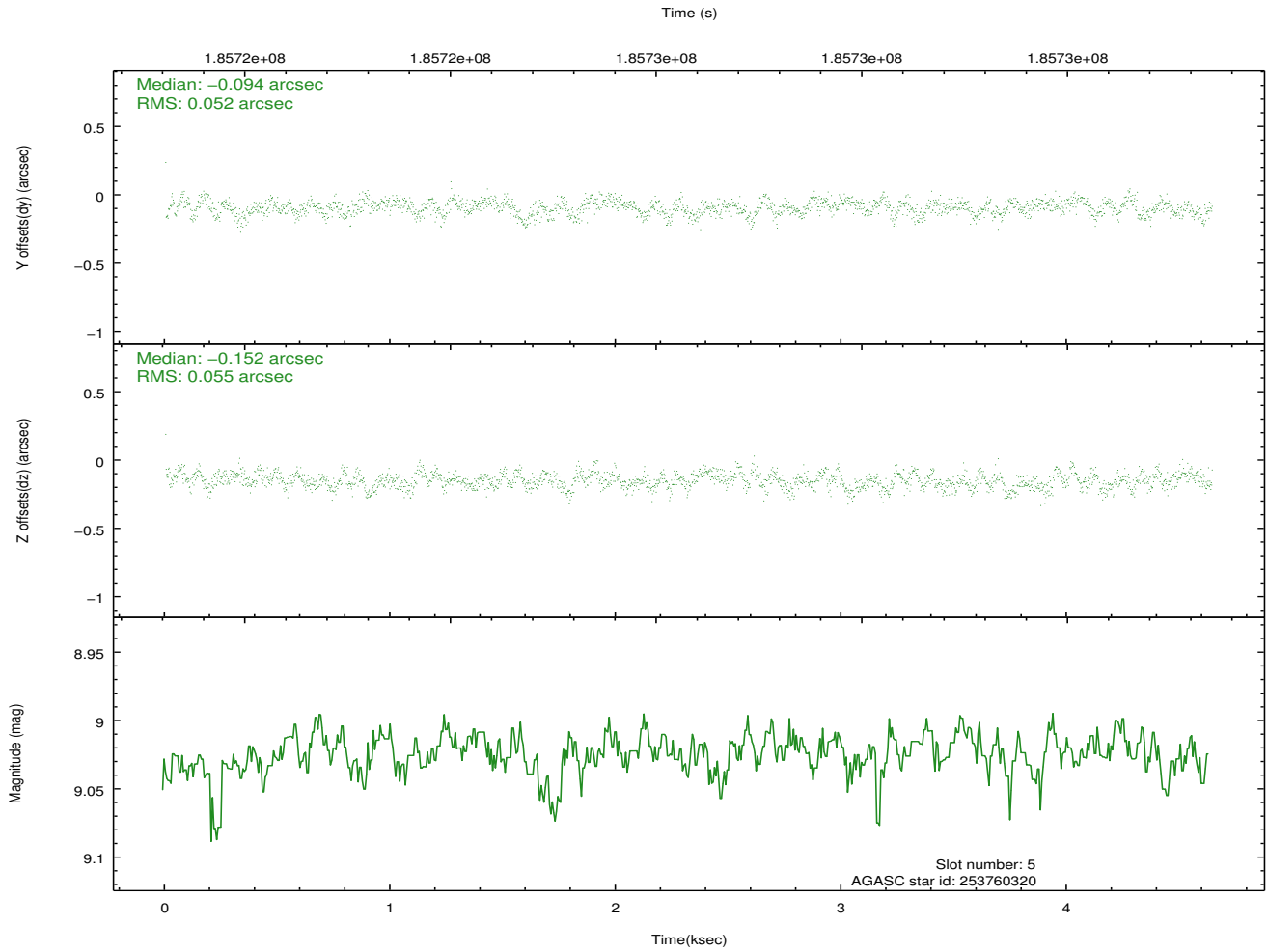
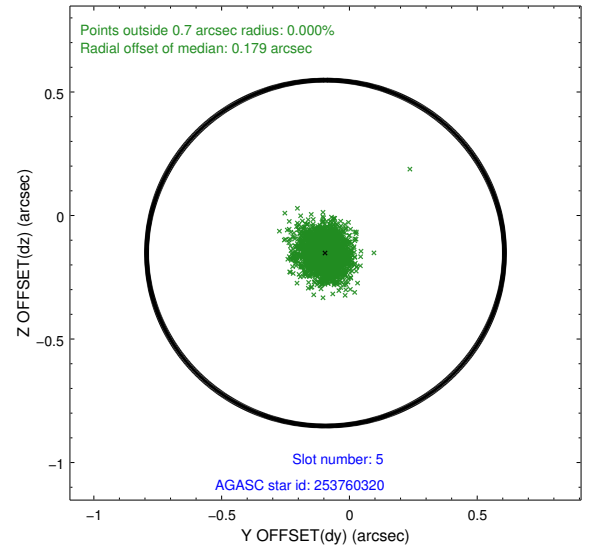
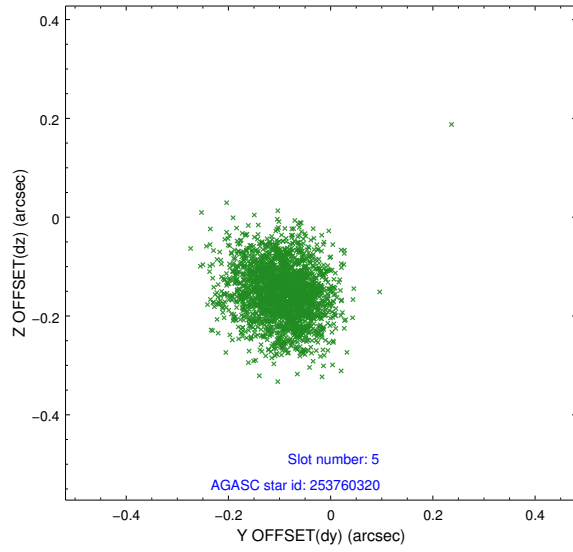
### 2.4.1 Slot 3



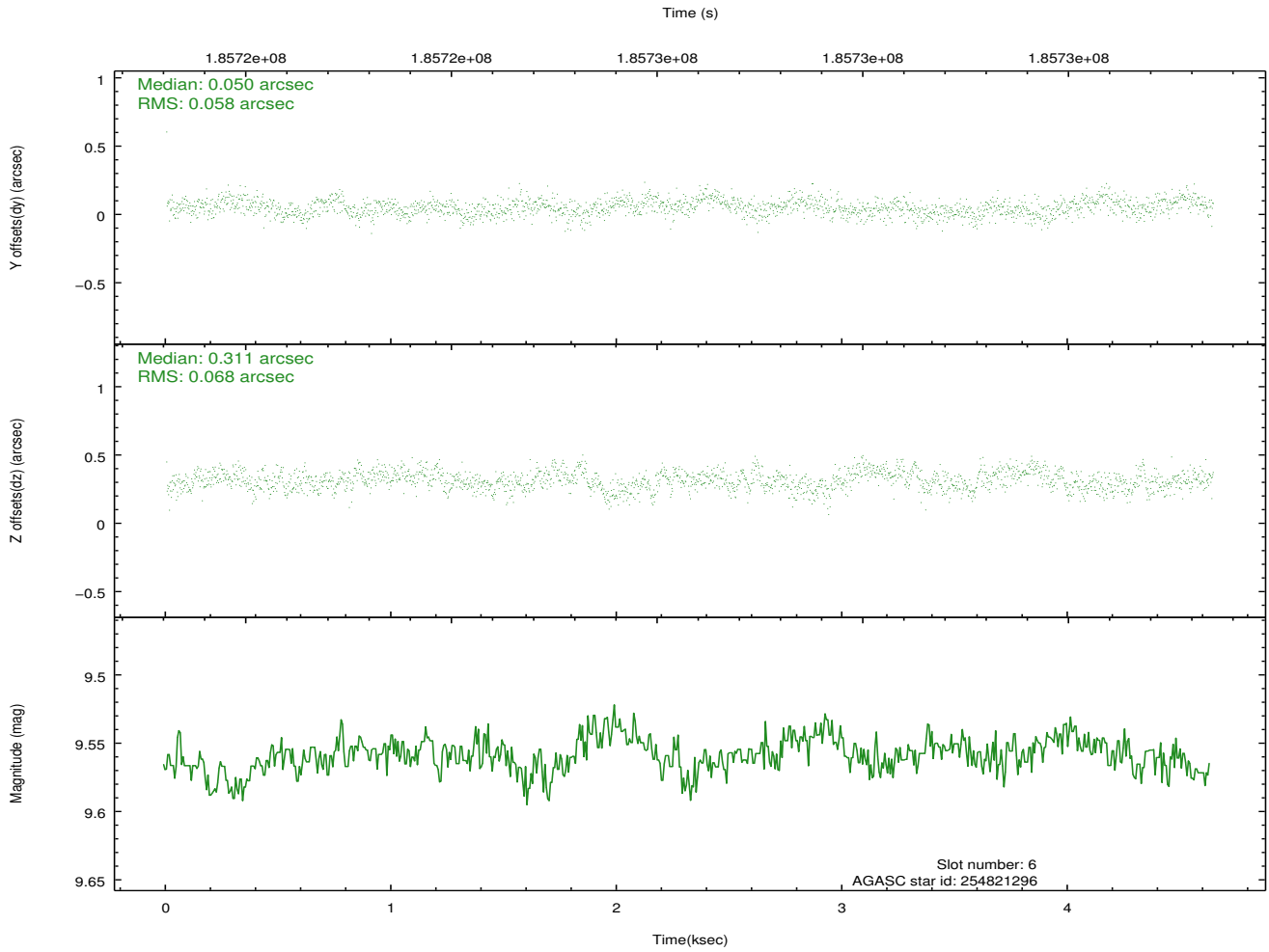
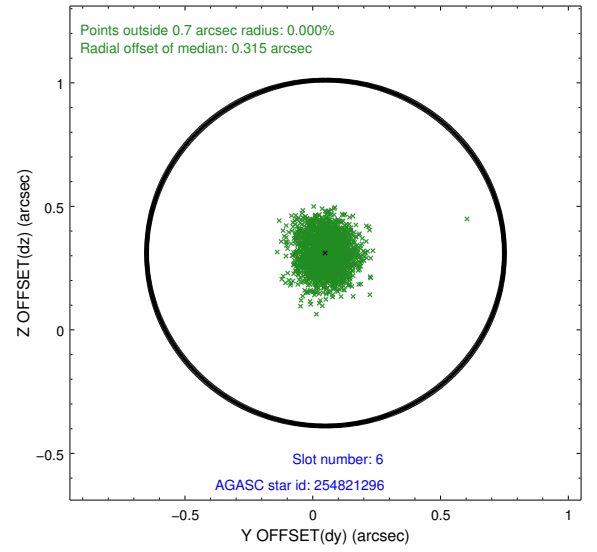
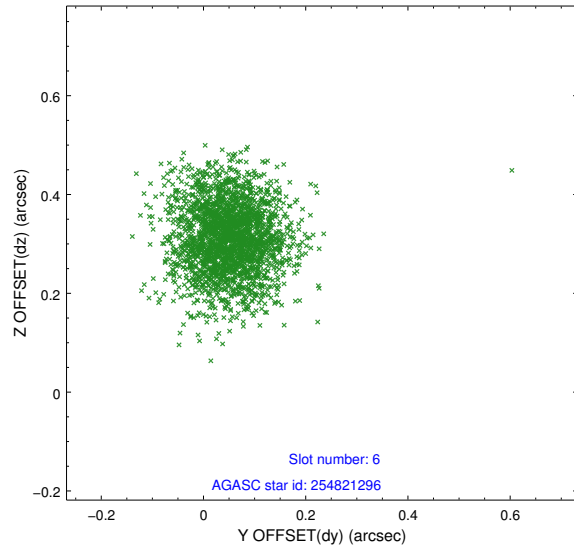
## 2.4.2 Slot 4



### 2.4.3 Slot 5

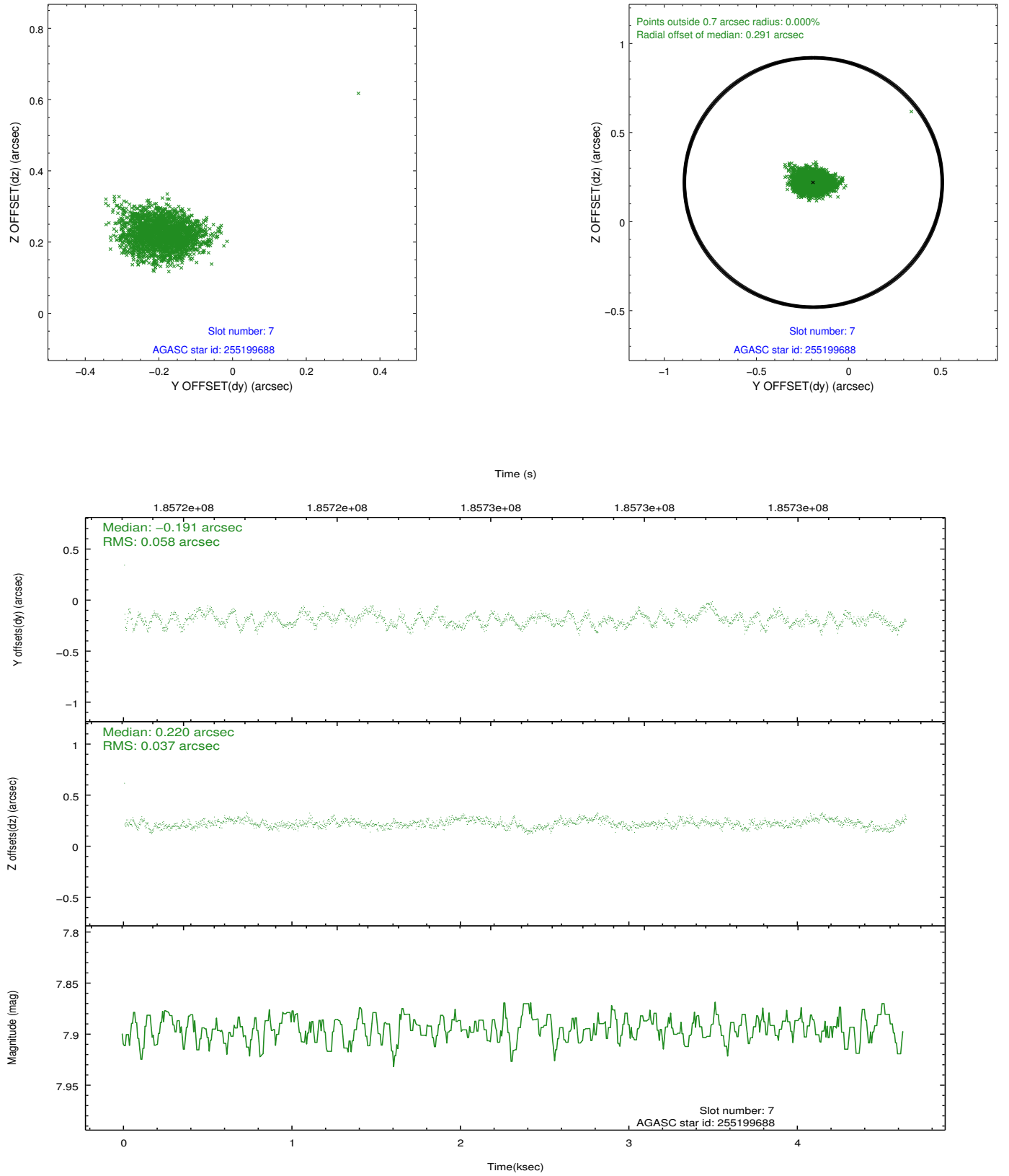


## 2.4.4 Slot 6



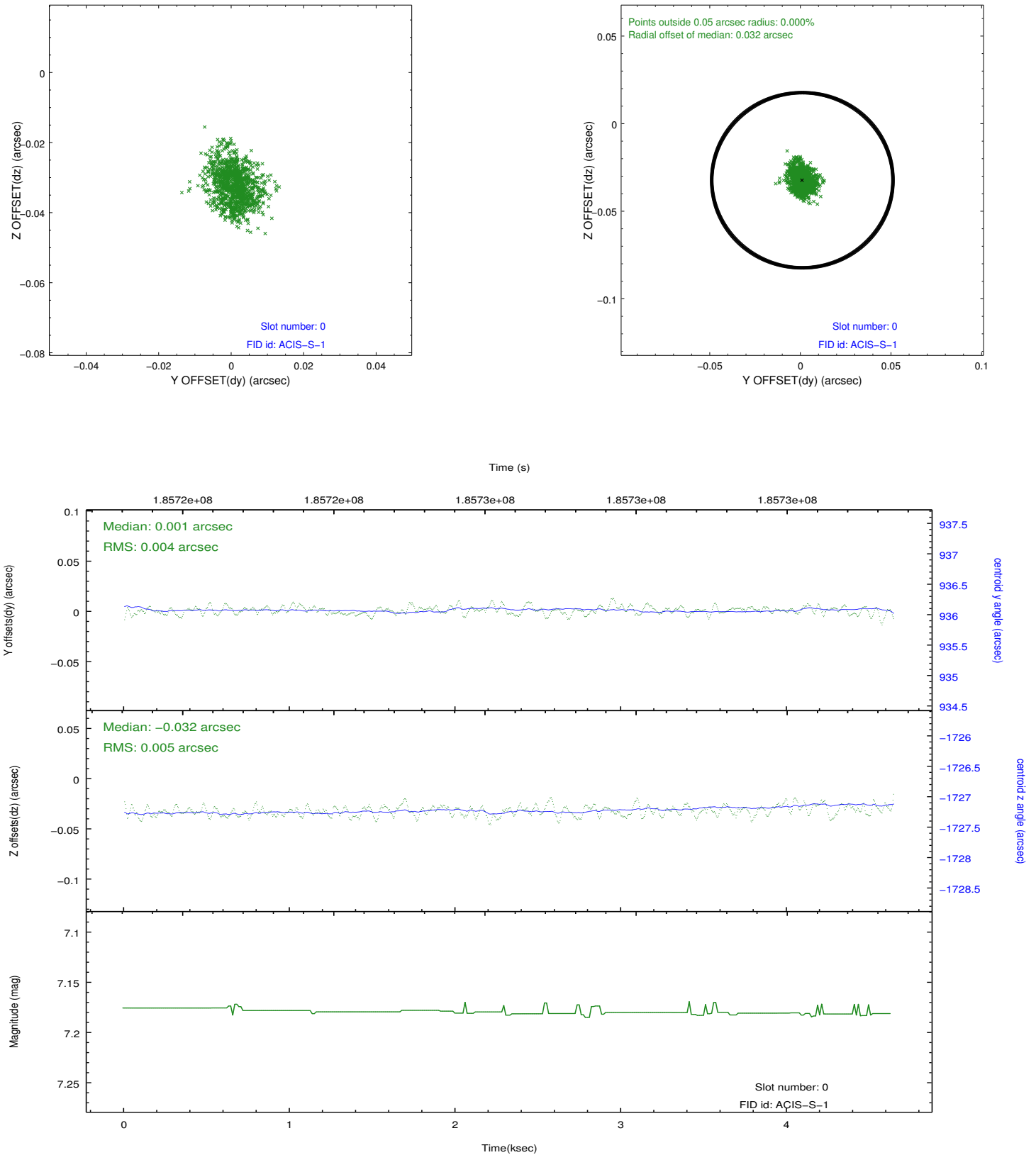


## 2.4.5 Slot 7

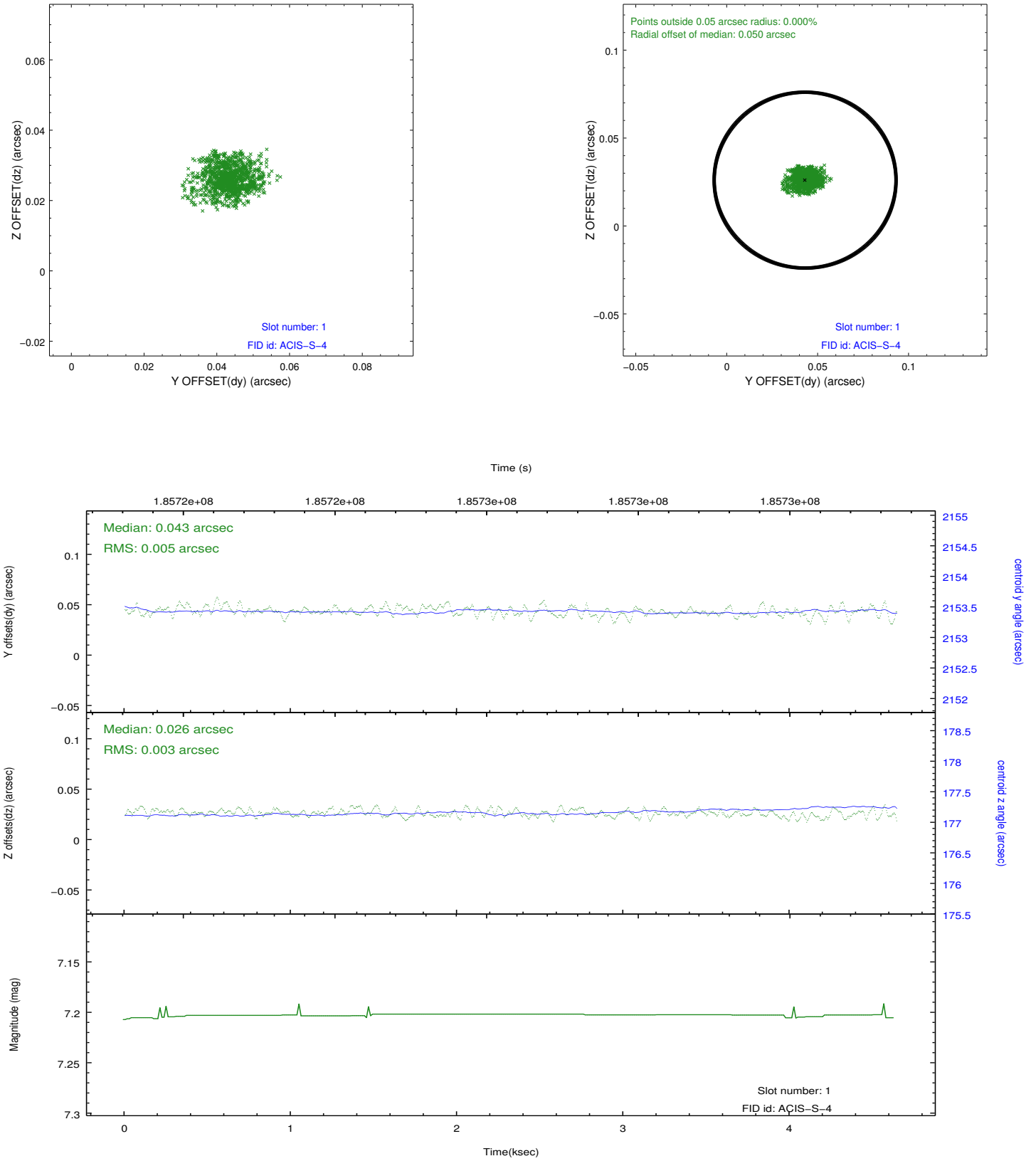


## 2.5 FID Slots

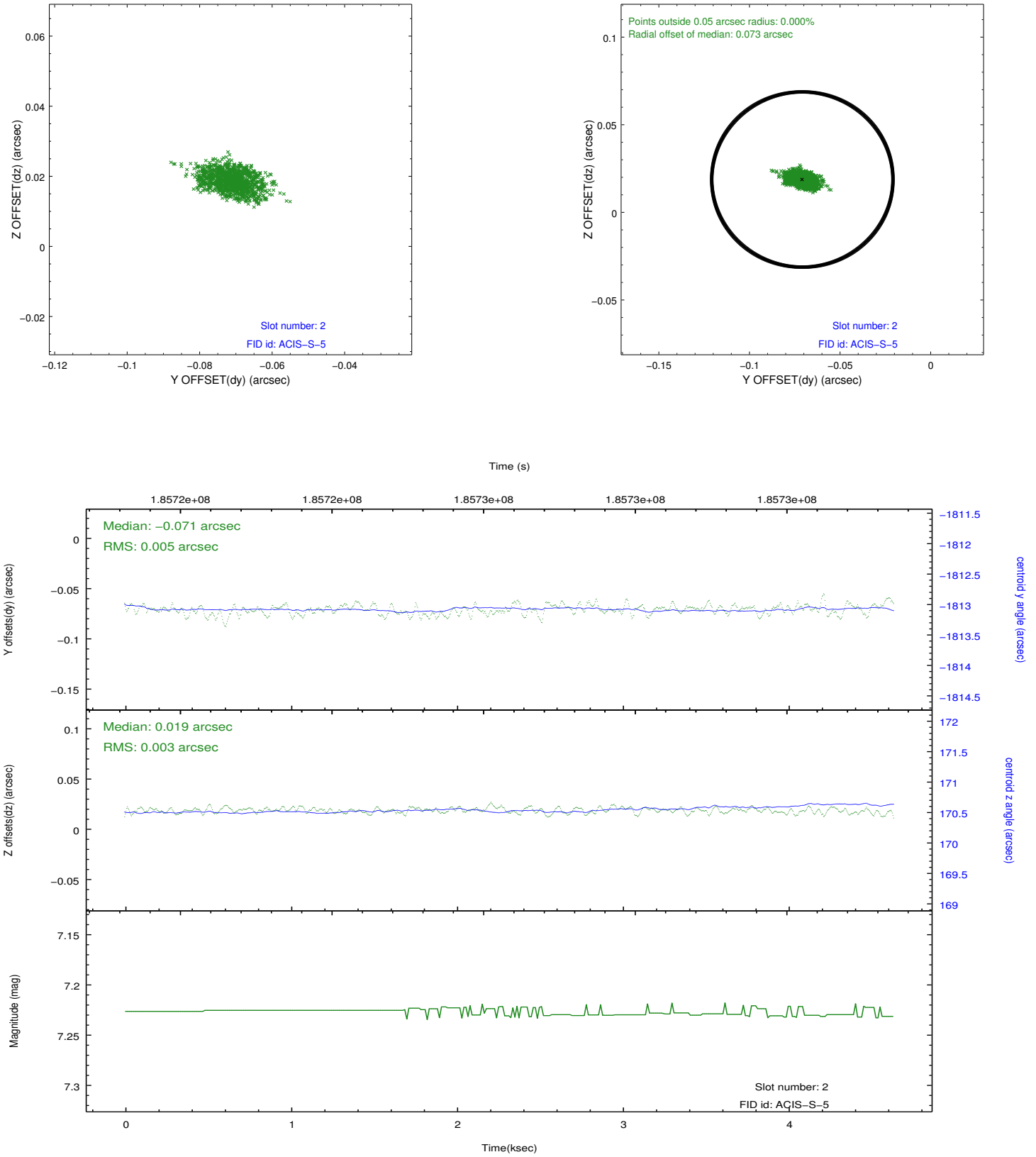
### 2.5.1 Slot 0



## 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)	2012.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.638

### A.2 Comments