

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9783 - L2 Version 2  
Chandra X-Ray Center

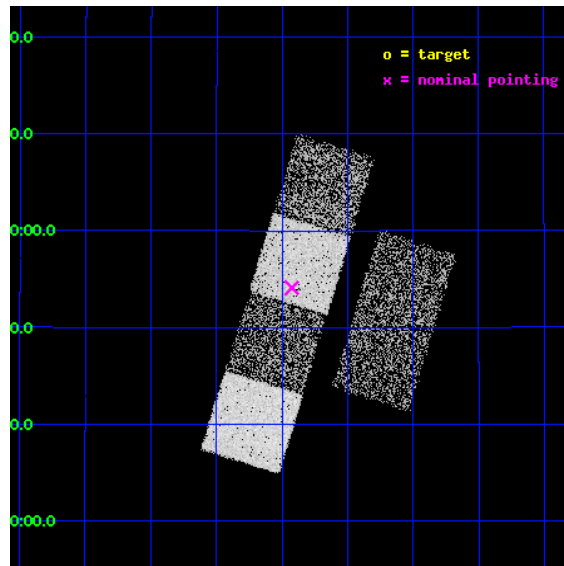
L2 Processing Date : May 7 2012

## 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

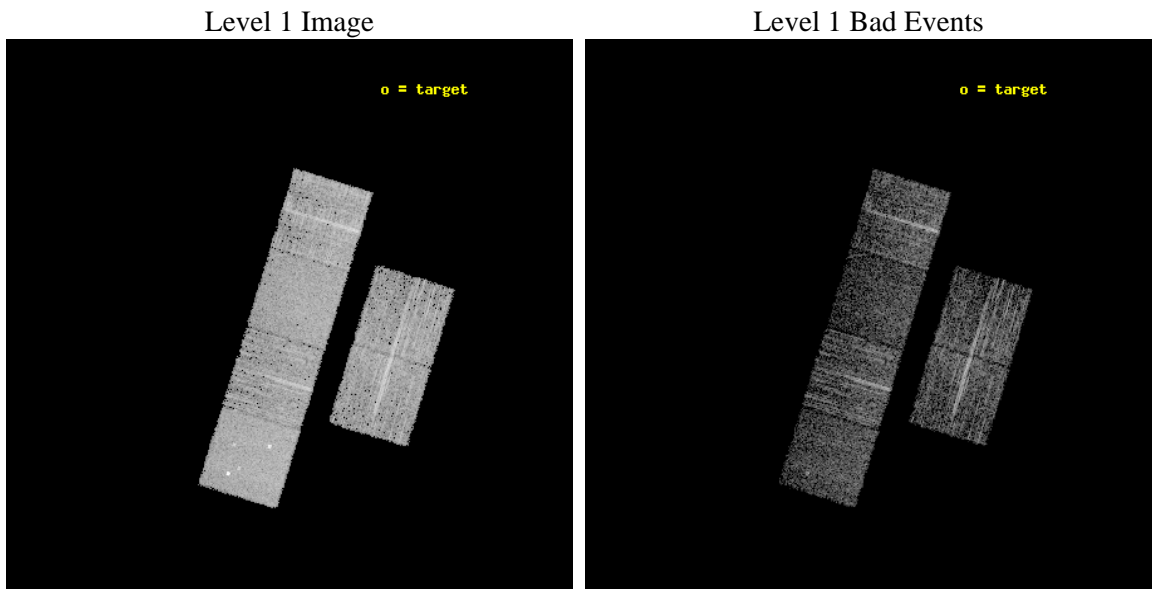
seq_num	100070	Sequence number
obs_id	9783	Observation id
title	High Resolution Imaging and Spectroscopy of 8P/Tuttle	Proposal tit
observer	Dr Damian Christian	Principal investigator
object	8P/Tuttle (2008)	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	24.054167	Observer's specified target RA [deg]
dec_targ	26.219722	Observer's specified target Dec [deg]
ra_nom	24.48123388593	Nominal RA [deg]
dec_nom	23.901569477887	Nominal Dec [deg]
roll_nom	287.09427735536	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3187.1999881864	Sum of GTIs [s]
livetime	3146.8417428345	Livetime [s]
ontime2	3187.1999881864	Sum of GTIs [s]
ontime3	3187.1999881864	Sum of GTIs [s]
ontime5	3187.1999881864	Sum of GTIs [s]
ontime6	3187.1999881864	Sum of GTIs [s]
ontime7	3187.1999881864	Sum of GTIs [s]
ontime8	3187.1999881864	Sum of GTIs [s]
l2events	40314	Number of level 2 events



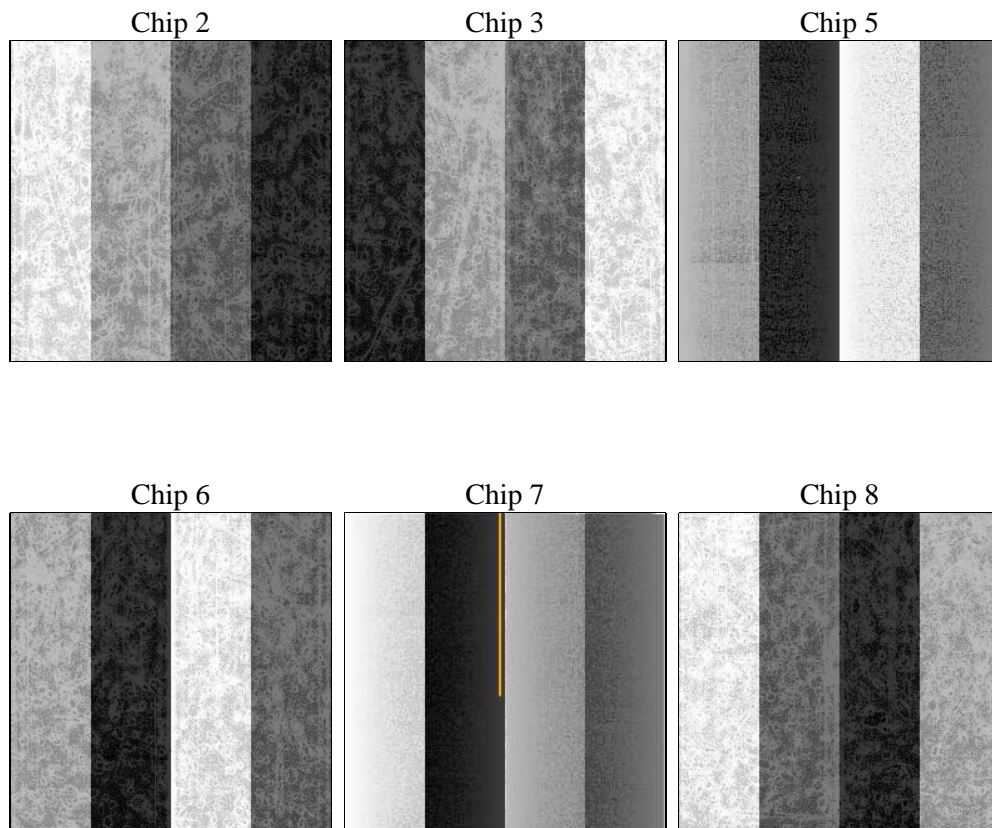
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	3187.1999881864	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	3187.1999881864	Sum of GTIs [s]
date	2012-05-07T14:12:20	Date and time of file creation	ontime3	3187.1999881864	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3187.1999881864	Sum of GTIs [s]
			ontime6	3187.1999881864	Sum of GTIs [s]
			ontime7	3187.1999881864	Sum of GTIs [s]
			ontime8	3187.1999881864	Sum of GTIs [s]
			l1events	201706	Number of level 1 events

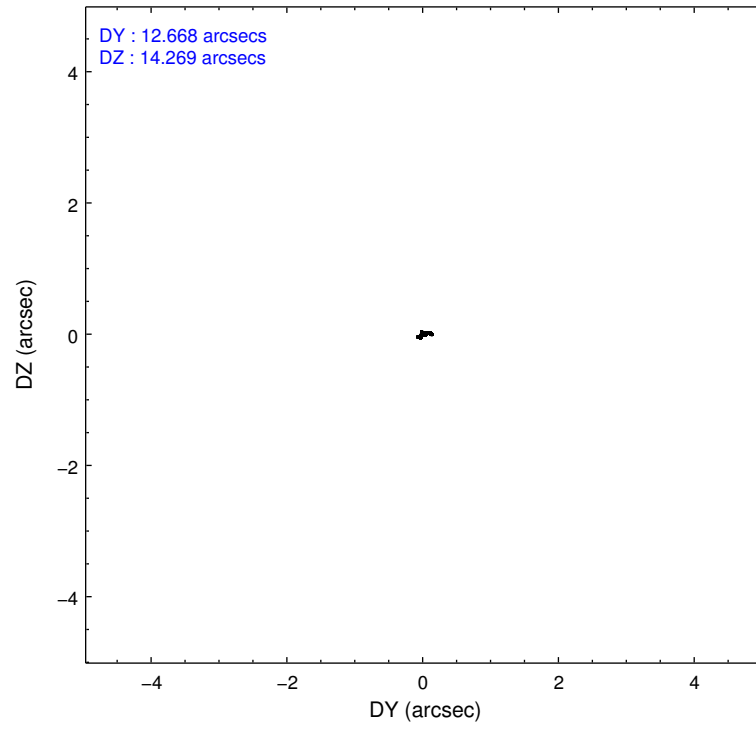
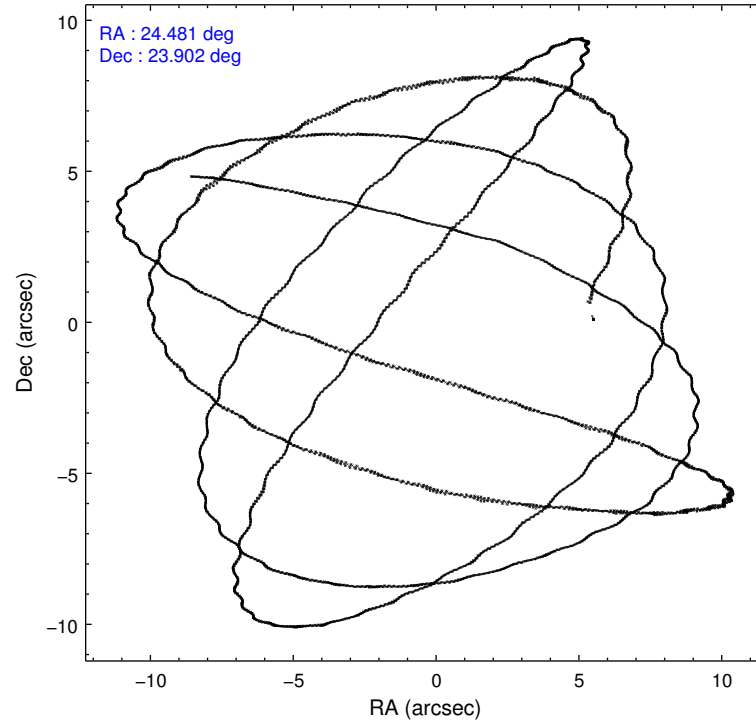
### 2.1.4 Events

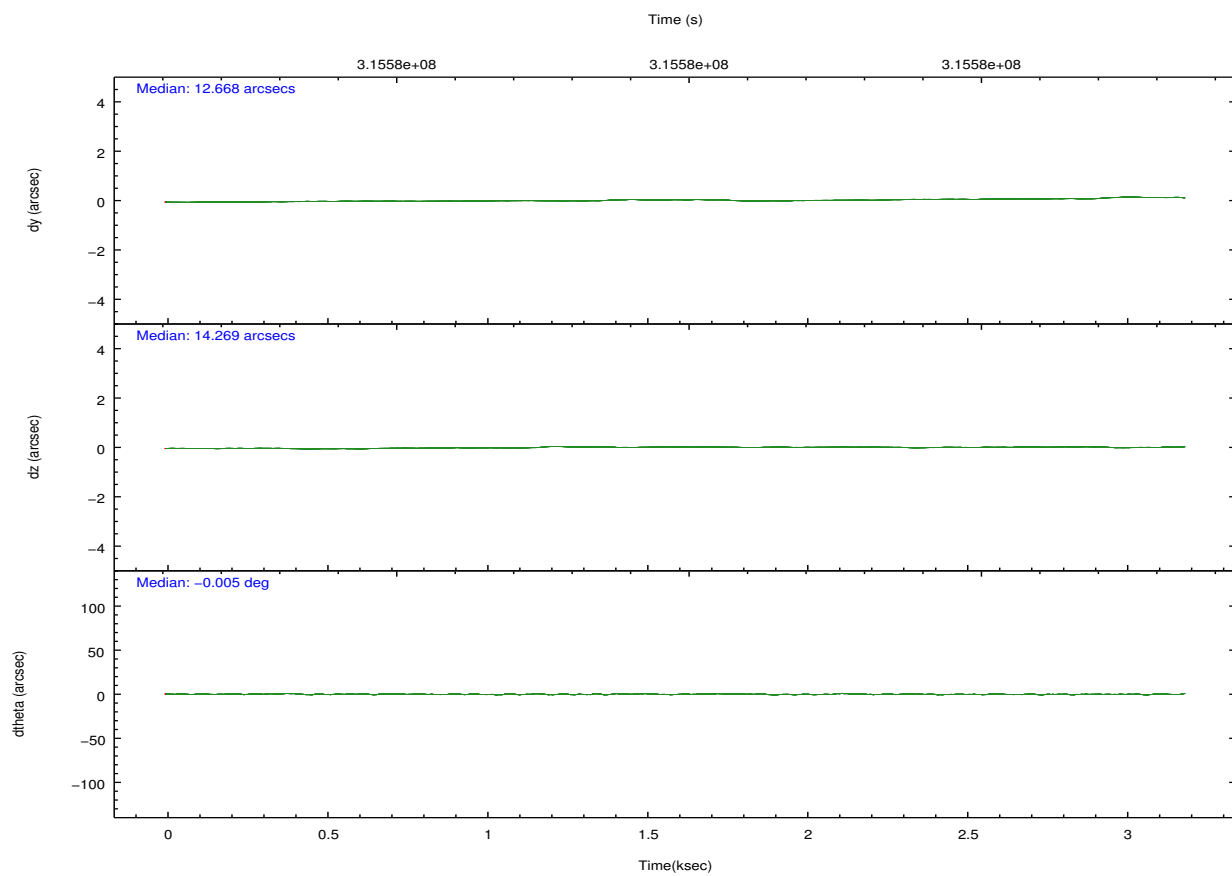
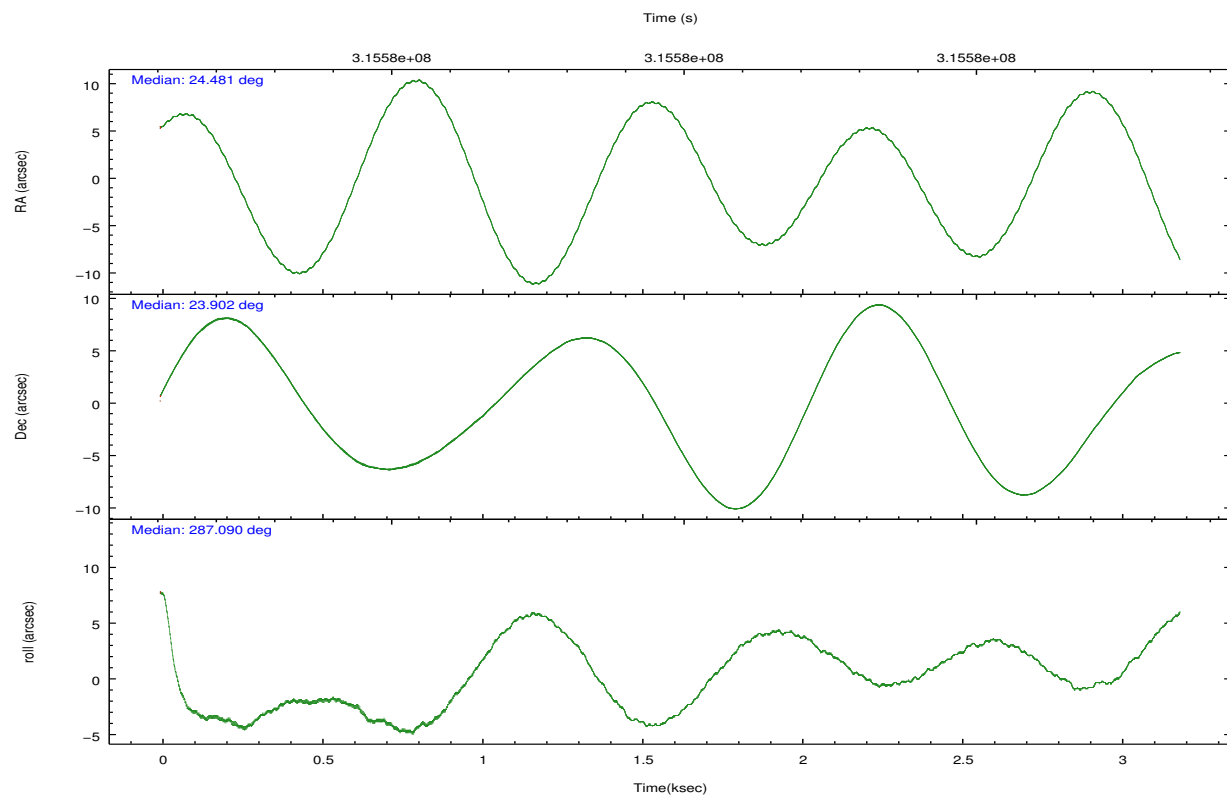
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	30569	29011	41306	30176	32644	38000	grade 0 events	1035	963	2783	1069	1786	2856
rejected events	27957	26578	22099	27374	18648	29045		3%	3%	6%	3%	5%	7%
rejected %	91%	91%	53%	90%	57%	76%	grade 1 events	20	19	116	11	45	25
								0%	0%	0%	0%	0%	0%
							grade 2 events	676	577	6126	670	3147	2376
								2%	1%	14%	2%	9%	6%
							grade 3 events	317	323	822	341	1374	979
								1%	1%	1%	1%	4%	2%
							grade 4 events	322	279	887	304	1345	908
								1%	0%	2%	1%	4%	2%
							grade 5 events	1032	1103	3257	1117	3528	1678
								3%	3%	7%	3%	10%	4%
							grade 6 events	505	549	10416	716	7719	2798
								1%	1%	25%	2%	23%	7%
							grade 7 events	26662	25198	16899	25948	13700	26380
								87%	86%	40%	85%	41%	69%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	24.458900	24.48123388593028	Subarray requested	NONE	NONE
[deg] Pointing Dec	23.919807	23.90156947788702	Alternating exposures requested	N	N
[deg] Pointing Roll	286.946668	287.094277355356	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	314928065.184000	314928065.184000			
[s] Window stop time (MET)	316828805.184000	316828805.184000			
[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)	315578547.184000	315578170.71758			
Observation start date	2008-01-01T12:41:22	2008-01-01T12:36:10			
[s] Observation end time (MET)	315581547.184000	315581680.83025			
Observation end date	2008-01-01T13:31:22	2008-01-01T13:34:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect





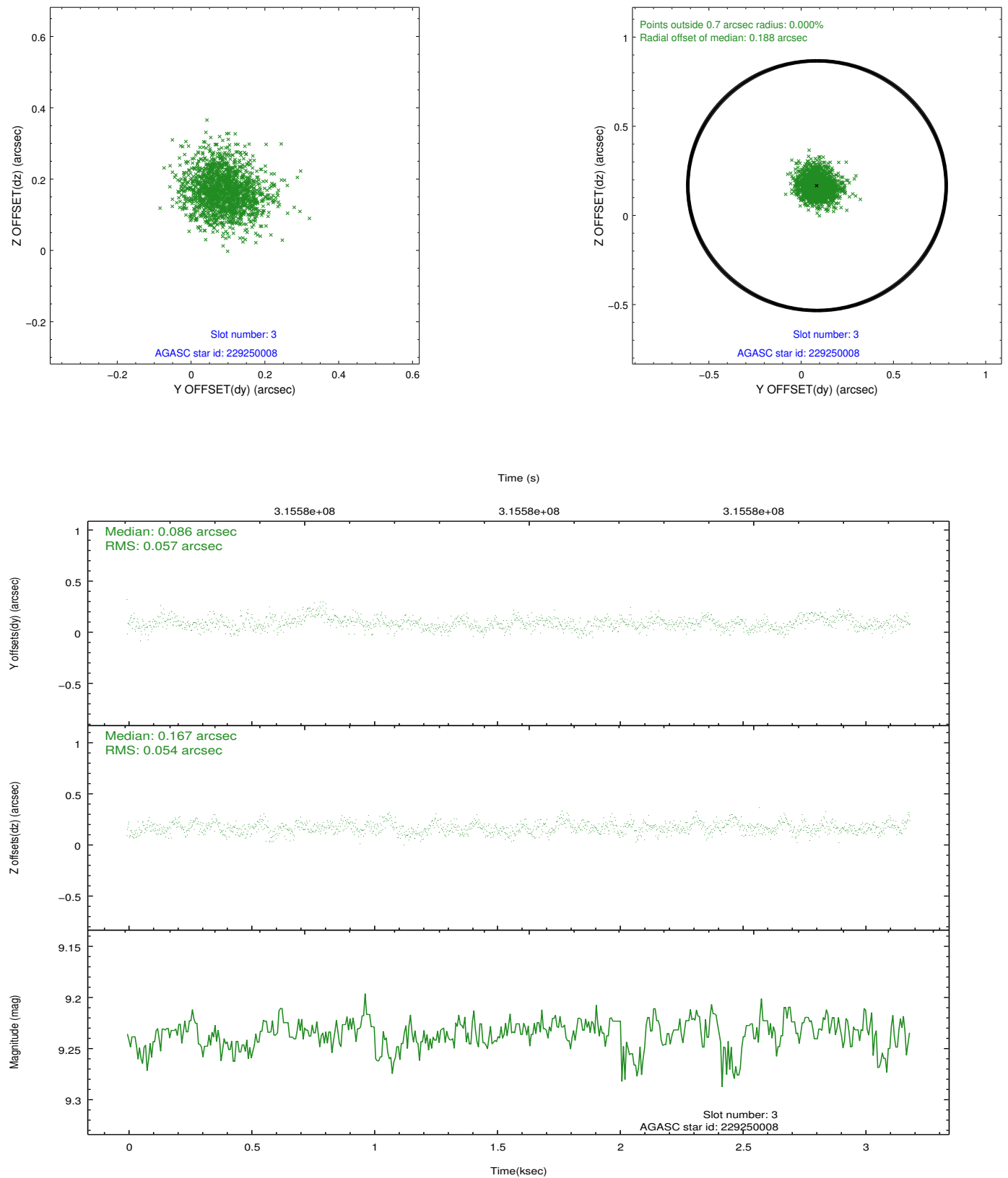
### Slot Statistics

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	778	-0.043	-0.044	0.007	0.010	0.000000	0.000000	-765.61	-1735.67
1	FID	ACIS-S-4	7.19	778	0.149	0.033	0.006	0.011	0.000000	0.000000	2146.92	170.84
2	FID	ACIS-S-5	7.23	778	-0.138	0.020	0.007	0.012	0.000000	0.000000	-1816.01	166.74
3	GUIDE	229250008	9.23	1554	0.086	0.167	0.083	0.136	24.918884	24.309304	-903.45	1852.82
4	GUIDE	229252392	8.70	1555	0.127	-0.078	0.089	0.137	24.062418	24.367790	-1923.44	-772.50
5	GUIDE	229255600	8.39	1554	-0.087	-0.157	0.071	0.115	24.102689	24.216856	-1366.11	-807.70
6	GUIDE	229260264	8.15	1555	-0.018	0.014	0.084	0.129	24.999207	23.744859	1117.59	1519.81
7	GUIDE	229252752	8.36	1555	-0.102	0.053	0.063	0.103	24.225654	24.410043	-1910.55	-216.26

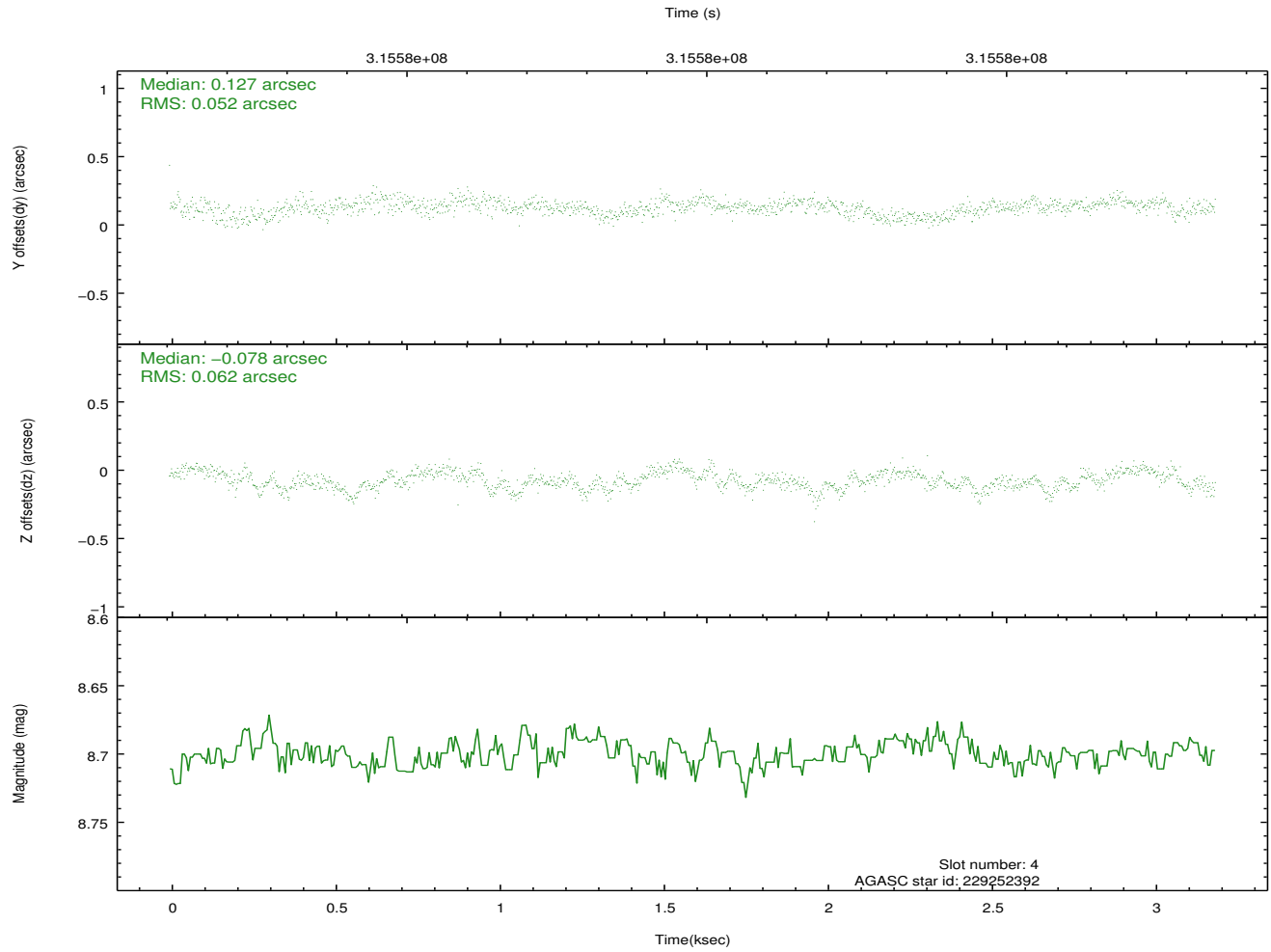
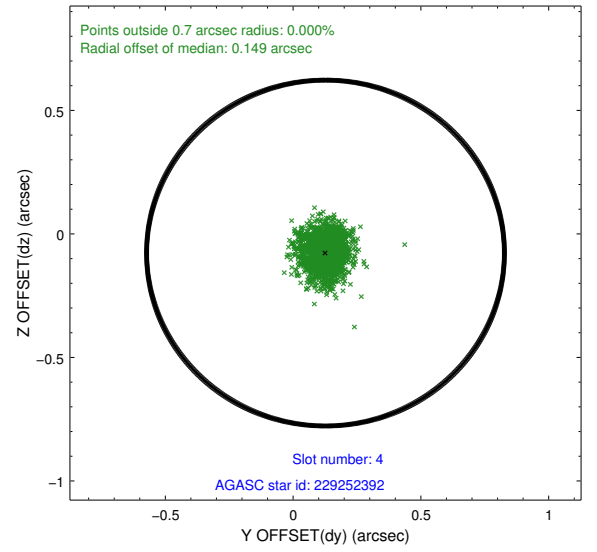
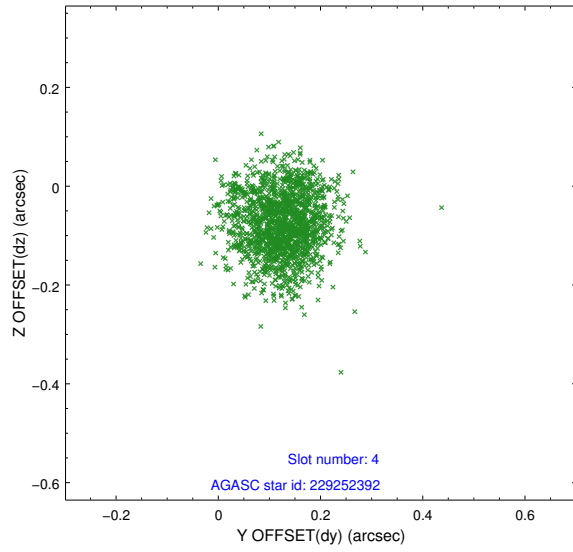


## 2.4 Star Slots

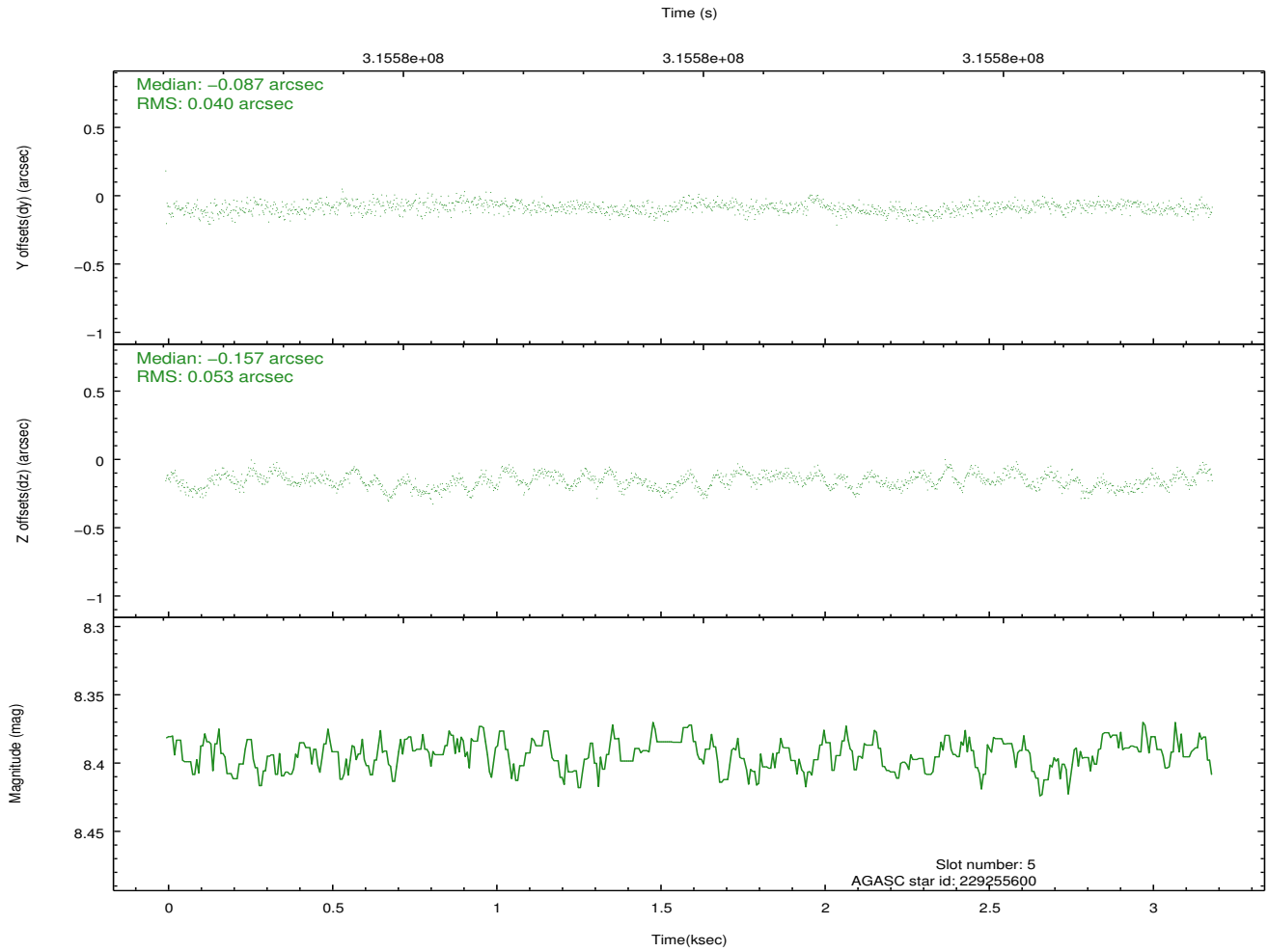
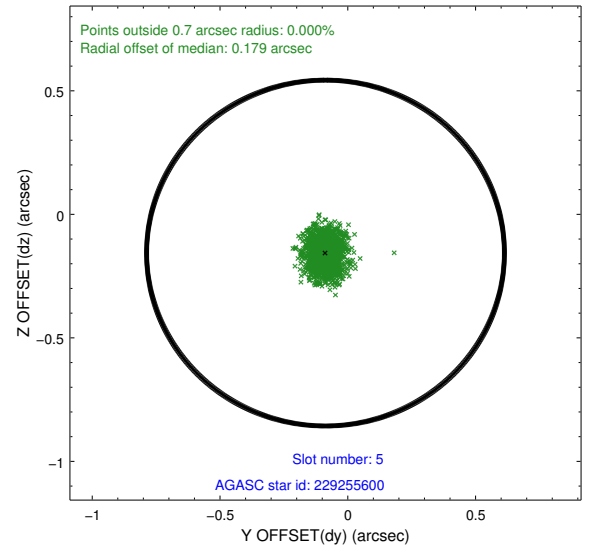
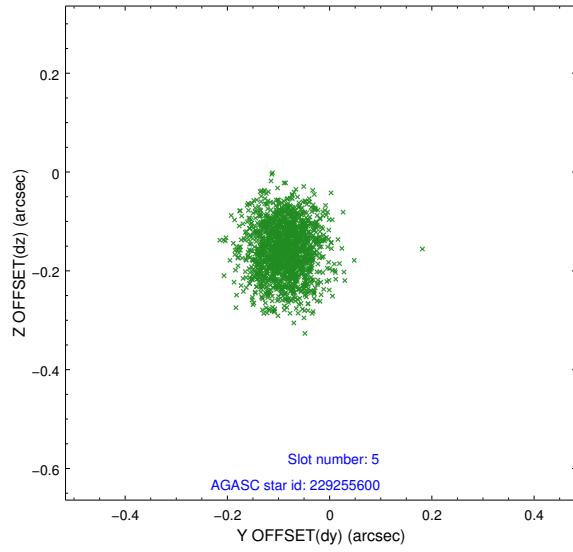
### 2.4.1 Slot 3



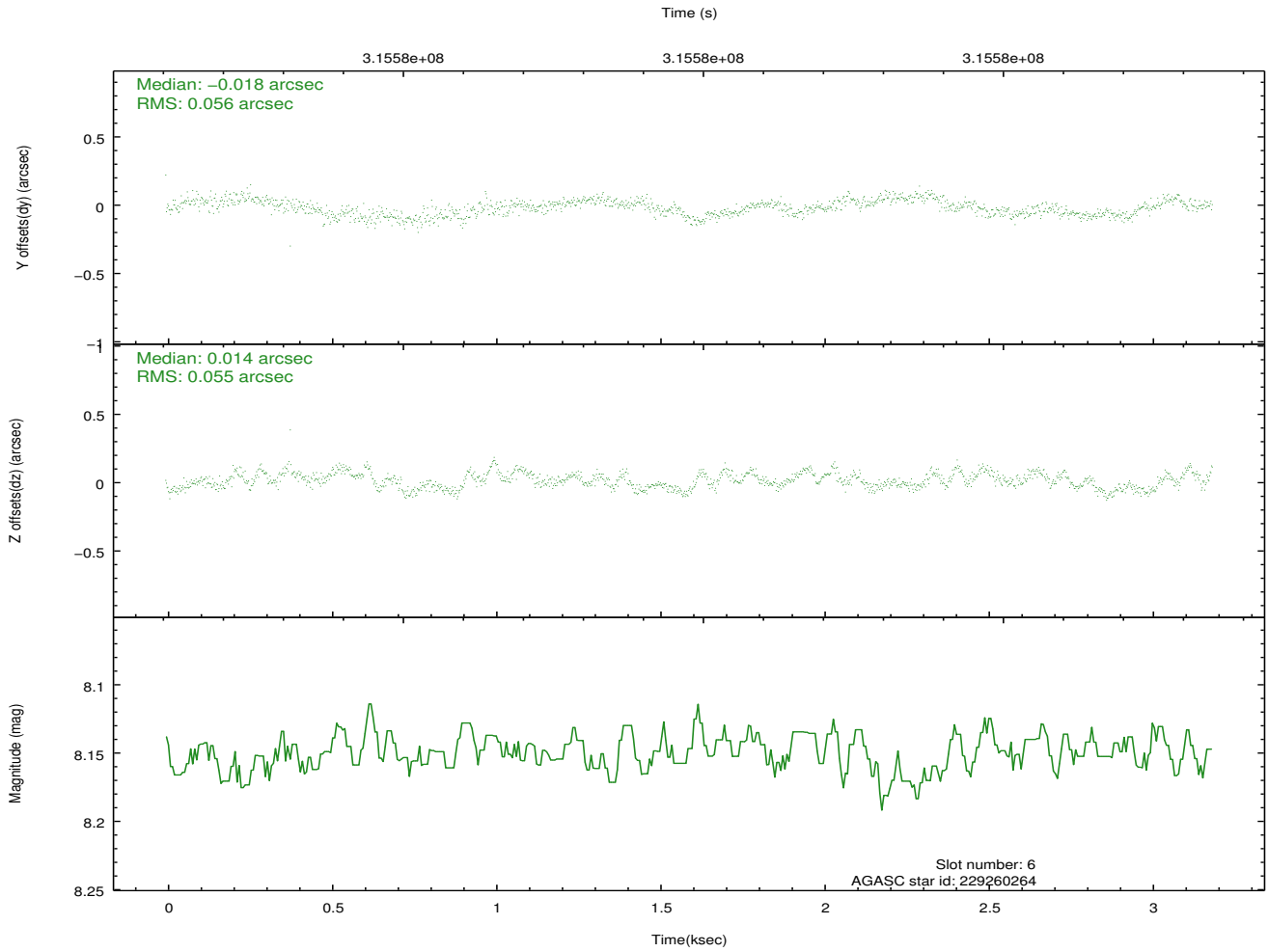
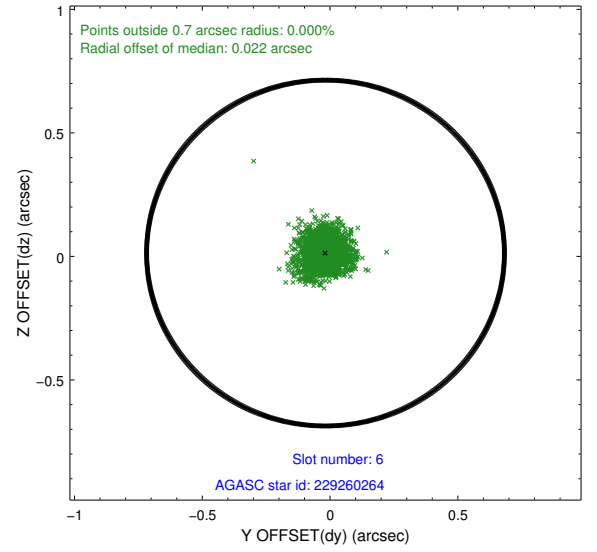
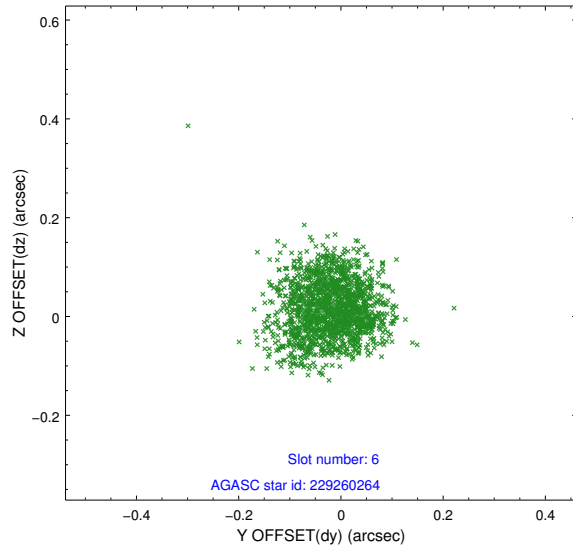
## 2.4.2 Slot 4



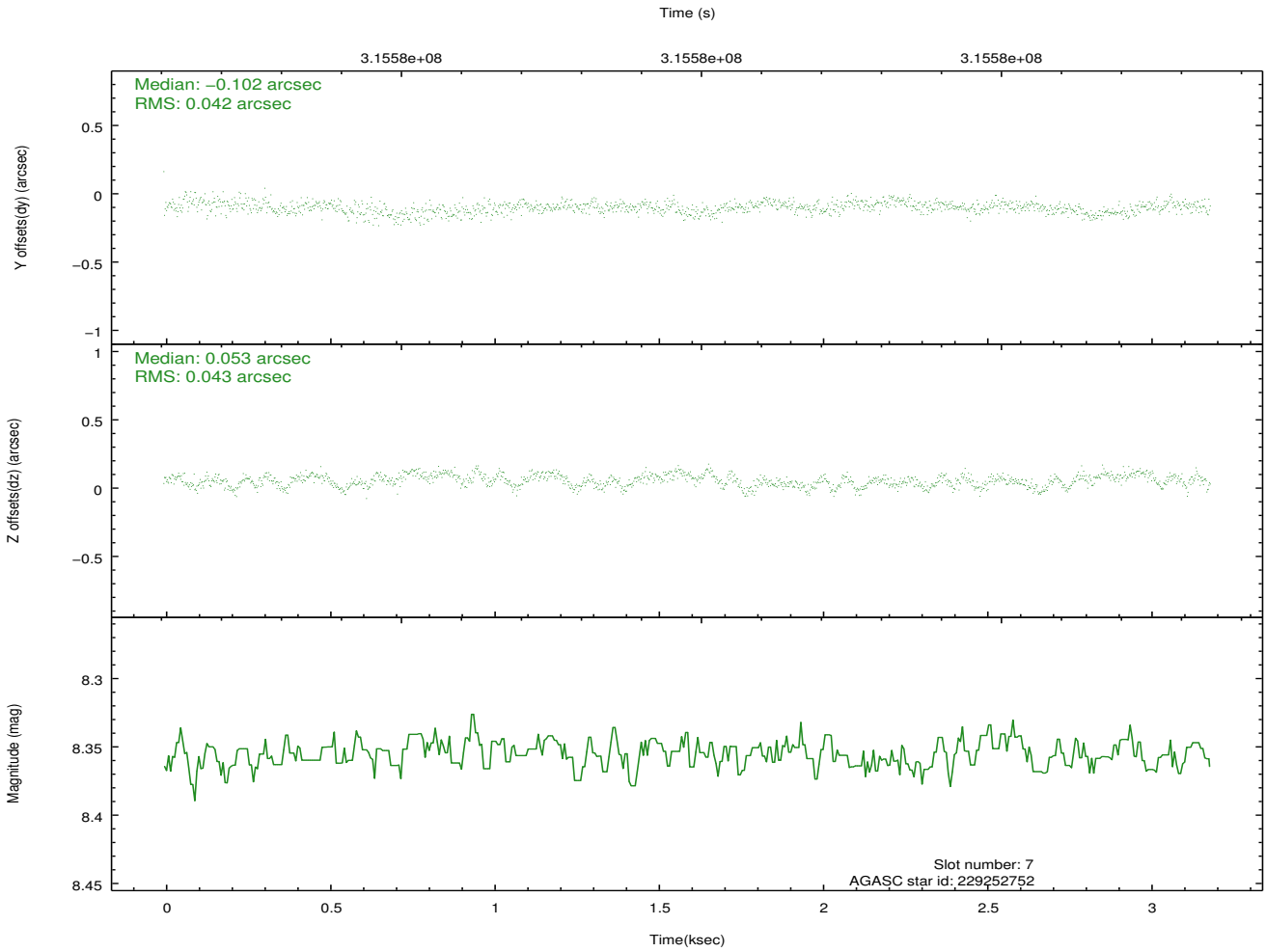
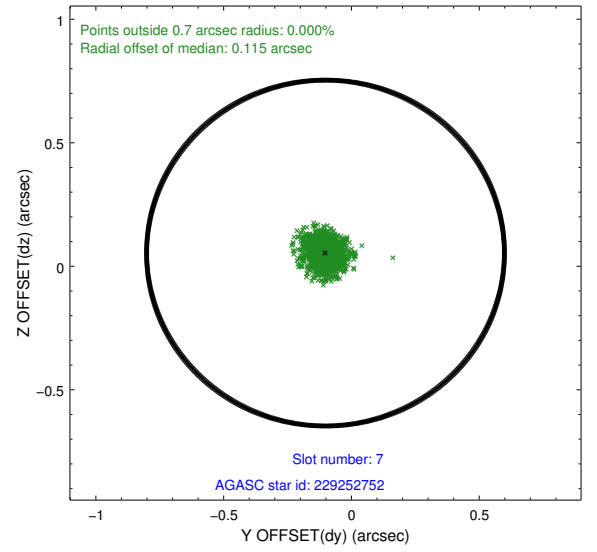
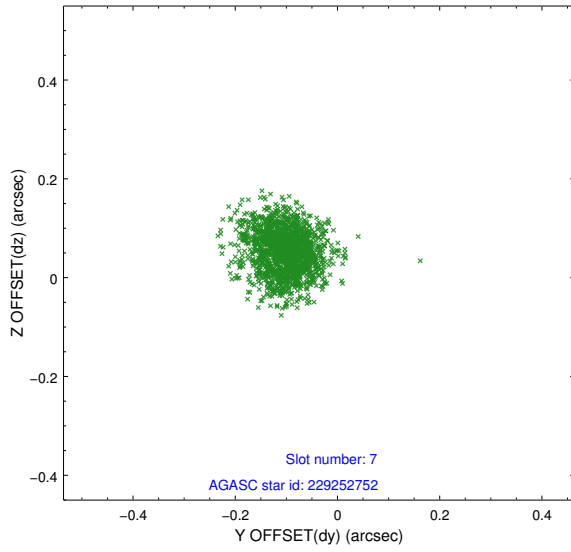
### 2.4.3 Slot 5



## 2.4.4 Slot 6

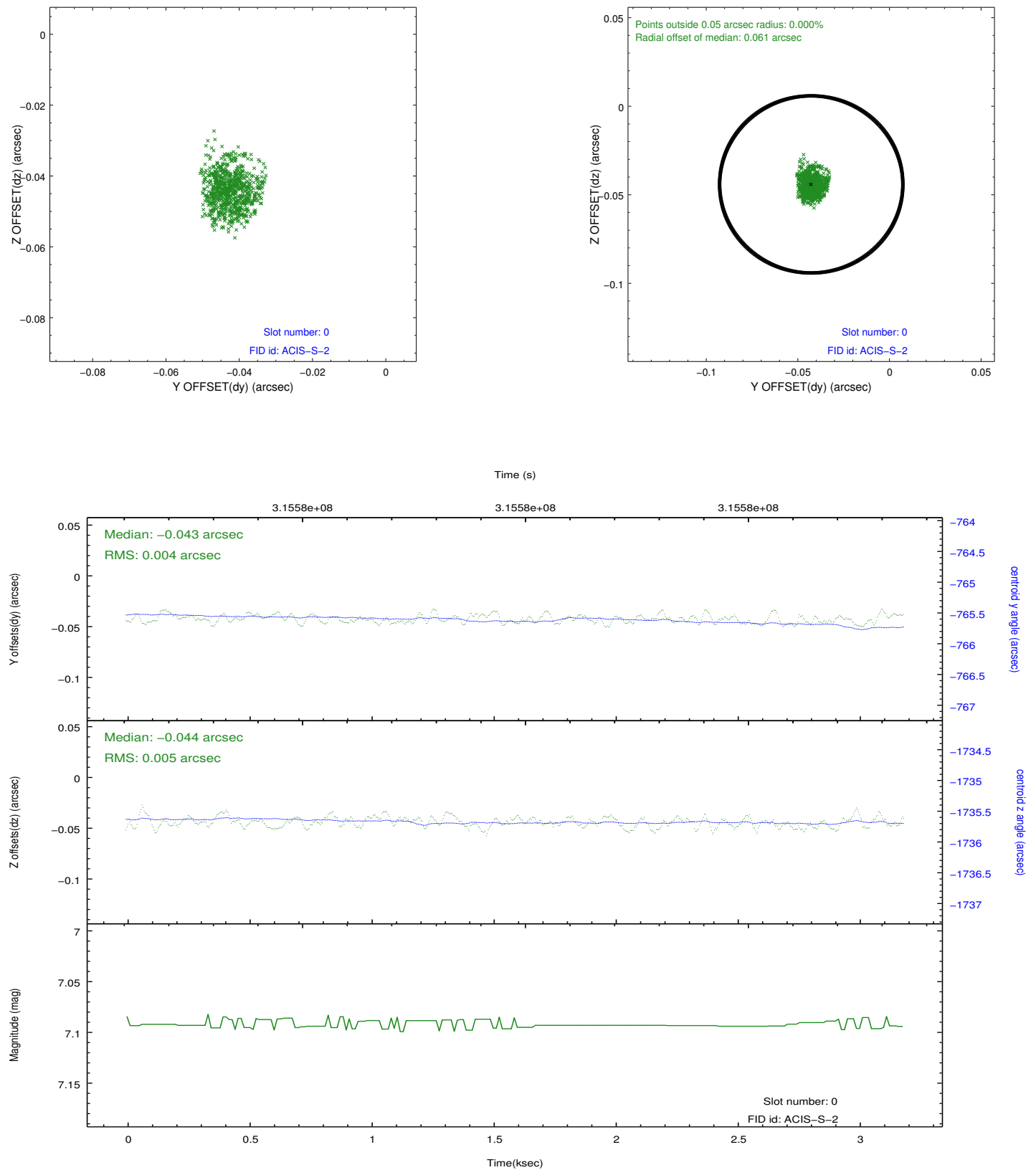


## 2.4.5 Slot 7

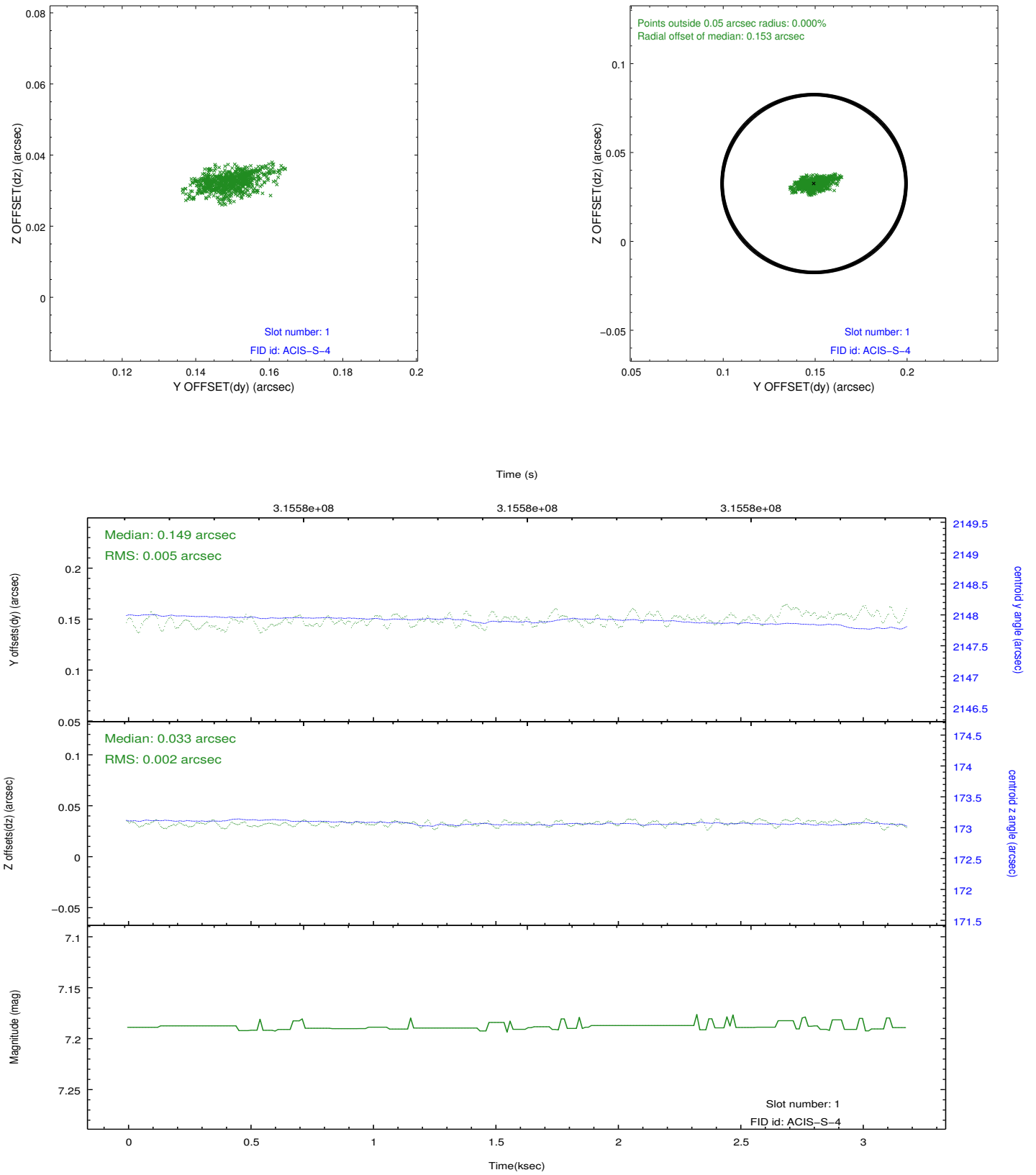


## 2.5 FID Slots

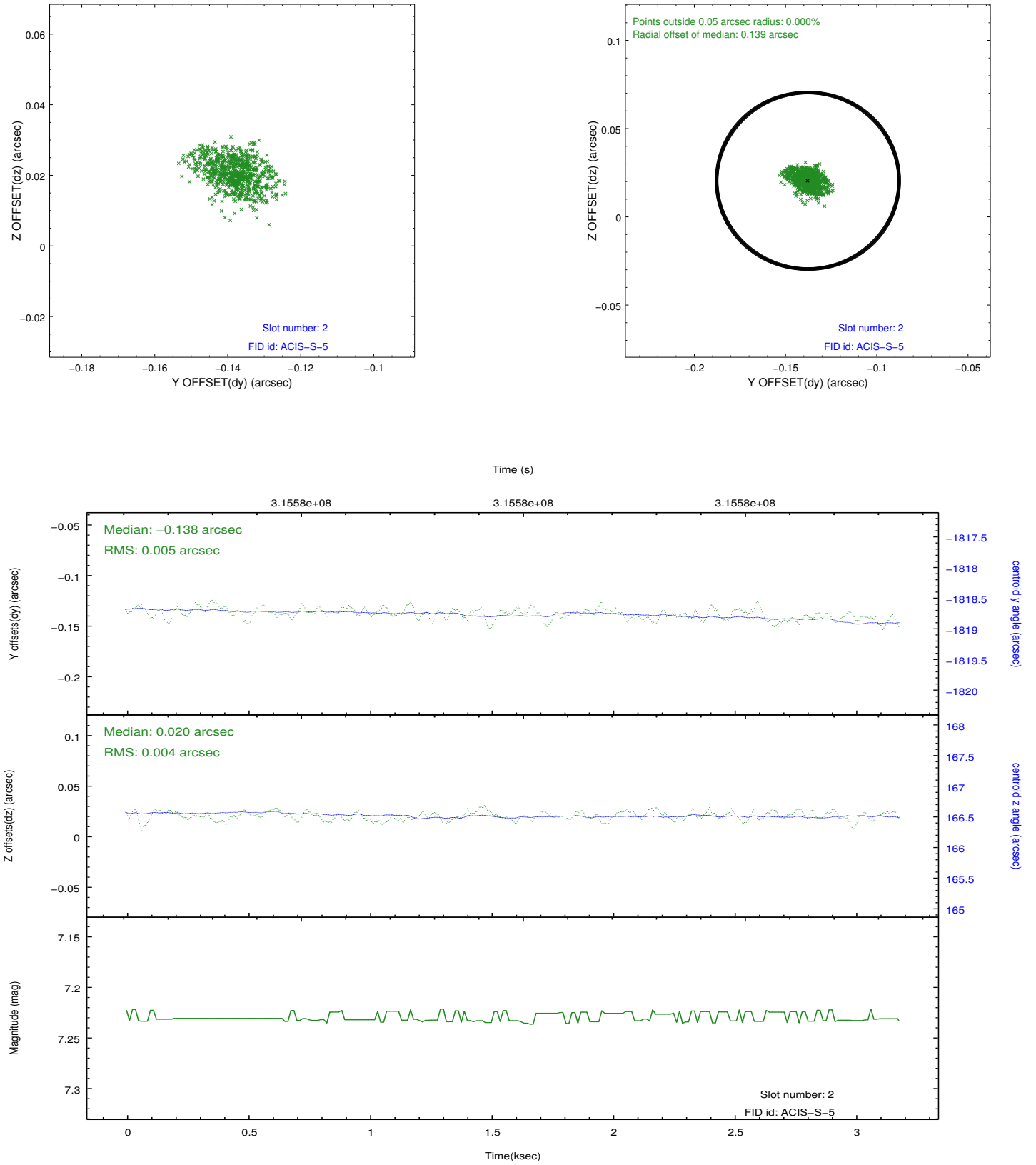
### 2.5.1 Slot 0



## 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)	2012.05.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.18719998

### A.2 Comments

Window preference met.