

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10758 - L2 Version 2  
Chandra X-Ray Center

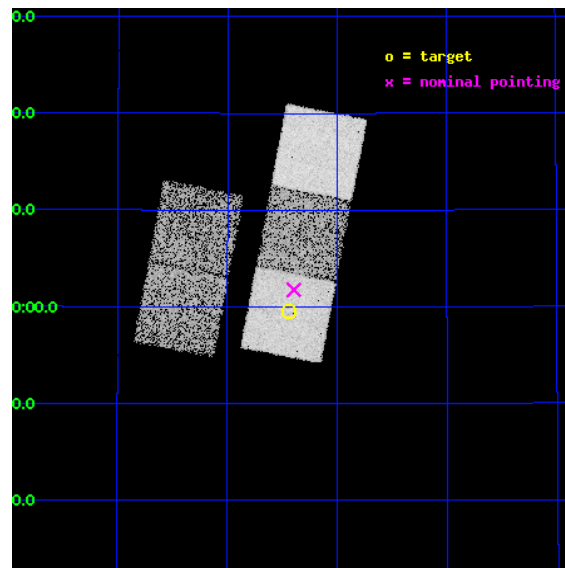
L2 Processing Date : May 26 2012

## 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

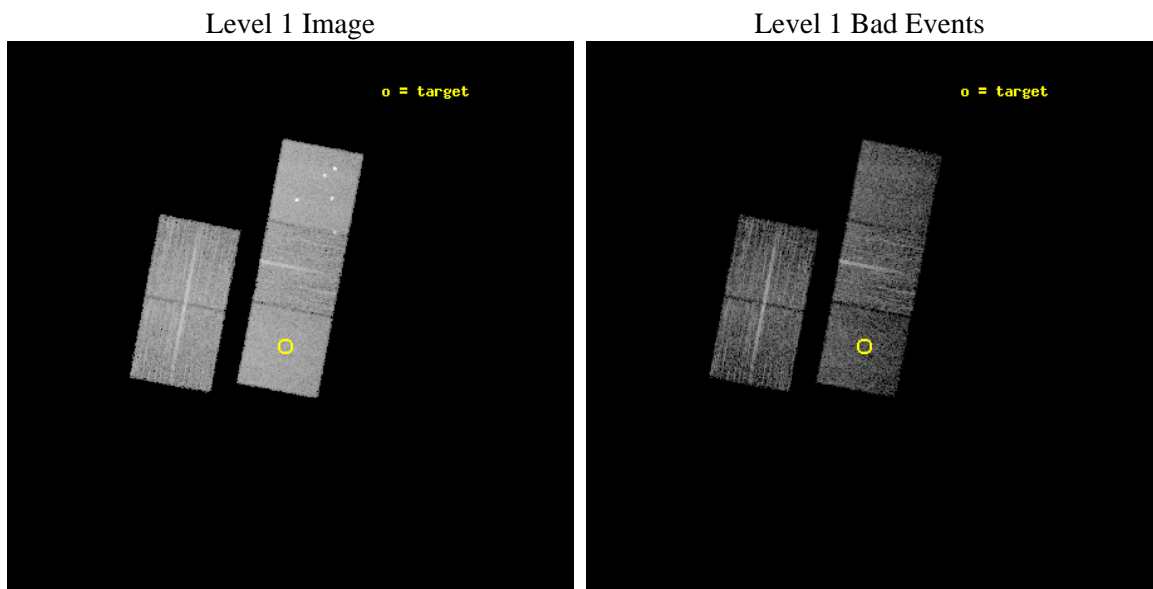
seq_num	900905	Sequence number
obs_id	10758	Observation id
title	The Origin and Evolution of Fossil Groups	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J0815+3959	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	123.860833	Observer's specified target RA [deg]
dec_targ	39.993222	Observer's specified target Dec [deg]
ra_nom	123.8484688583	Nominal RA [deg]
dec_nom	40.029600896989	Nominal Dec [deg]
roll_nom	100.81319039851	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5170.8000397682	Sum of GTIs [s]
livetime	5103.239730561	Livetime [s]
ontime2	5167.6590294242	Sum of GTIs [s]
ontime3	5170.8000397682	Sum of GTIs [s]
ontime5	5170.8000397682	Sum of GTIs [s]
ontime6	5170.8000397682	Sum of GTIs [s]
ontime7	5170.8000397682	Sum of GTIs [s]
l2events	76448	Number of level 2 events



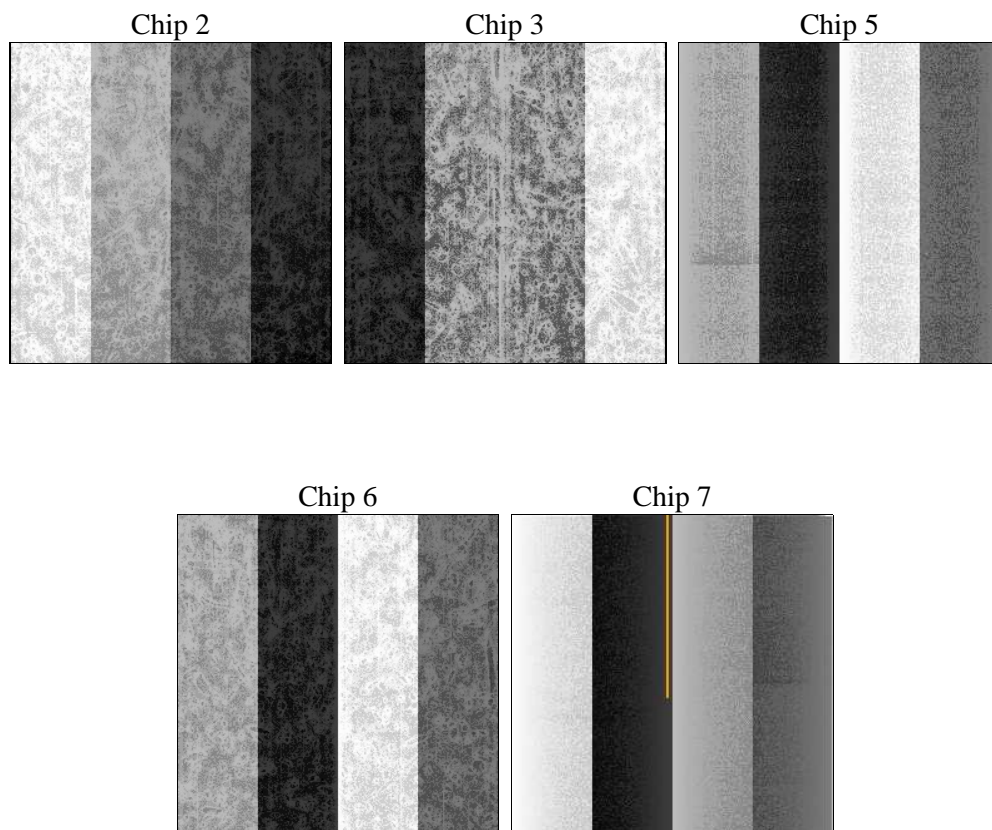
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.701000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5170.8000397682	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	5167.6590294242	Sum of GTIs [s]
date	2012-05-26T04:36:56	Date and time of file creation	ontime3	5170.8000397682	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5170.8000397682	Sum of GTIs [s]
			ontime6	5170.8000397682	Sum of GTIs [s]
			ontime7	5170.8000397682	Sum of GTIs [s]
			l1events	265105	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	47850	44911	70019	47401	54924
rejected events	41634	38459	32514	40370	27668
rejected %	87%	85%	46%	85%	50%

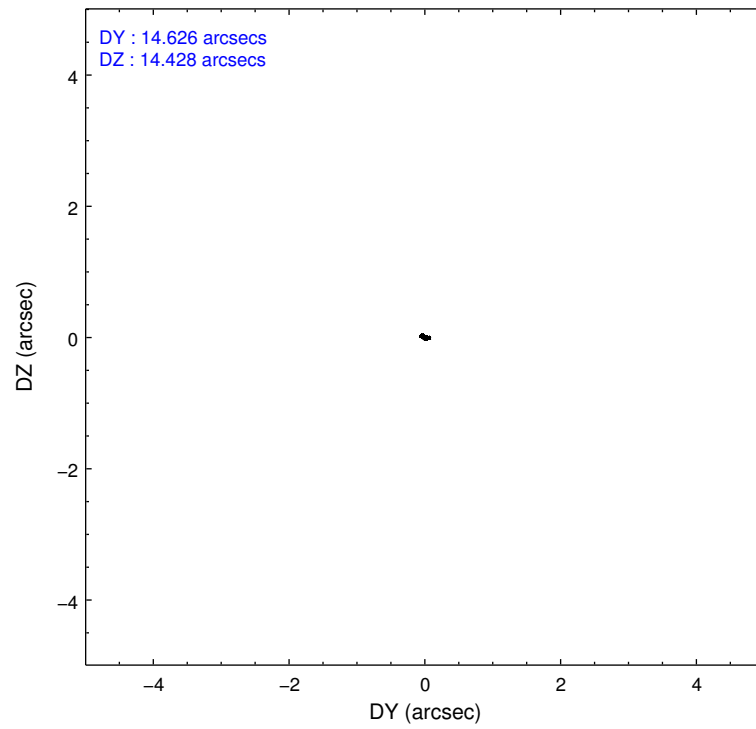
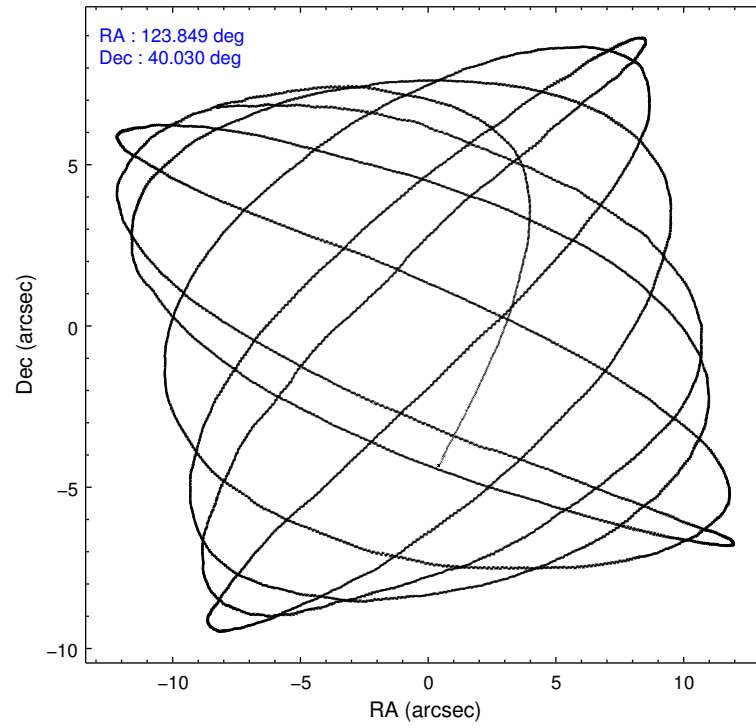
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	3163	3227	6529	3564	2701
	6%	7%	9%	7%	4%
grade 1 events	34	30	212	48	59
	0%	0%	0%	0%	0%
grade 2 events	1182	1190	11113	1261	5544
	2%	2%	15%	2%	10%
grade 3 events	545	575	1403	549	2363
	1%	1%	2%	1%	4%
grade 4 events	559	575	1364	562	2379
	1%	1%	1%	1%	4%
grade 5 events	1511	1799	4789	1841	5319
	3%	4%	6%	3%	9%
grade 6 events	924	1031	18178	1239	14963
	1%	2%	25%	2%	27%
grade 7 events	39932	36484	26431	38337	21596
	83%	81%	37%	80%	39%

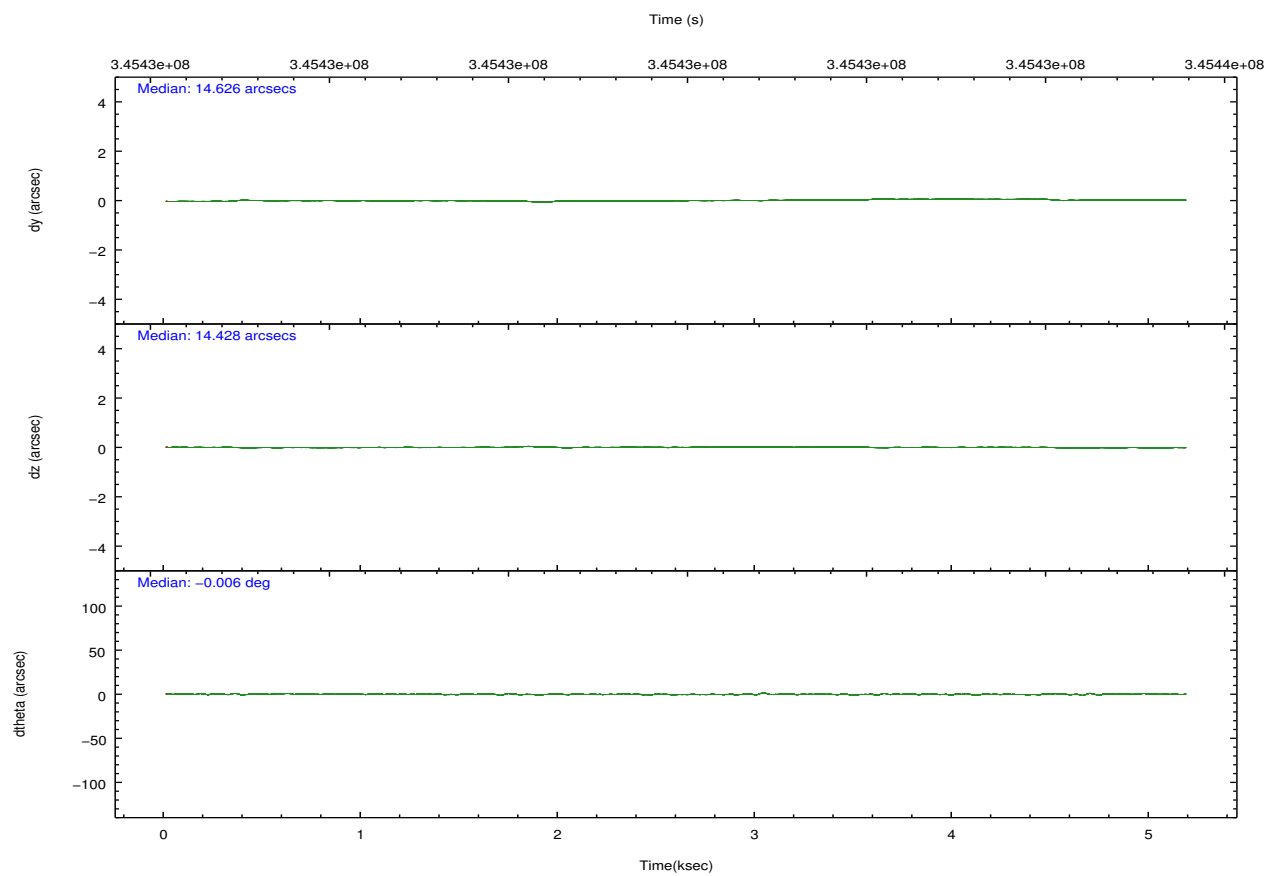
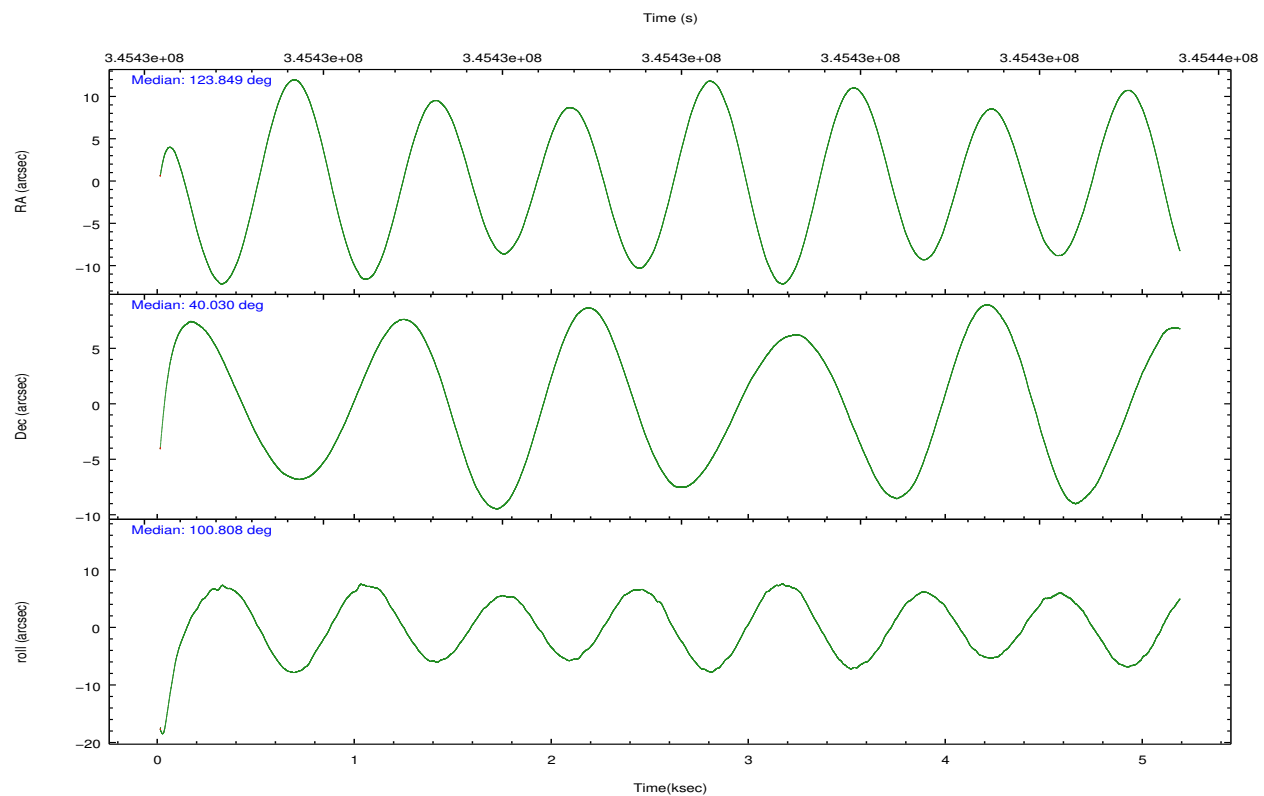


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	123.872215	123.8484688583038	CCD I2 on	O1	Y
[deg] Pointing Dec	40.009102	40.0296008969894	CCD I3 on	O2	Y
[deg] Pointing Roll	100.641335	100.8131903985132	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	345429535.184000	345428458.21229	CCD S5 on	N	N
Observation start date	2008-12-12T00:37:50	2008-12-12T00:20:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	345434536.184000	345434763.50011	On-chip summing requested	N	N
Observation end date	2008-12-12T02:01:11	2008-12-12T02:06:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



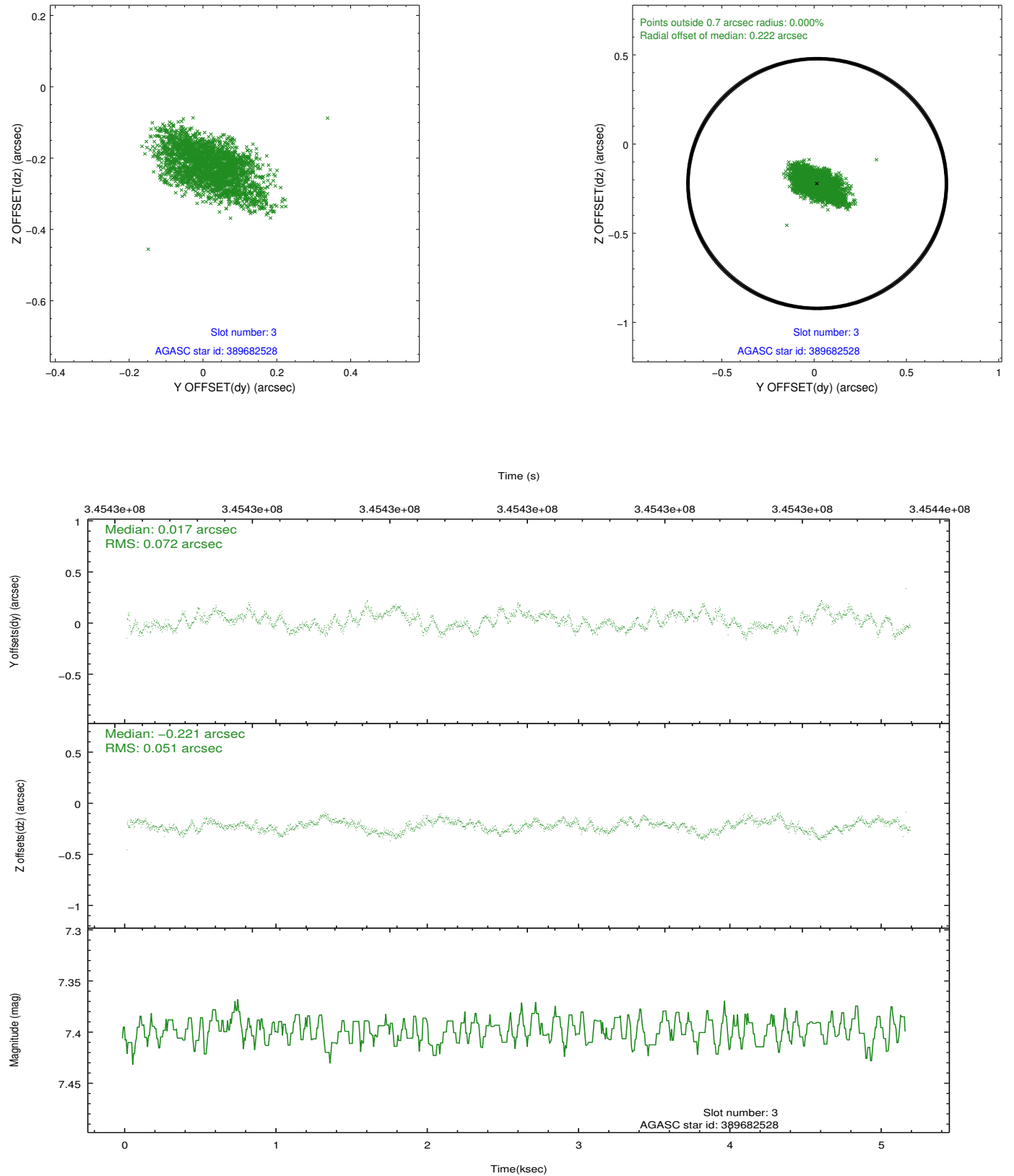


### Slot Statistics

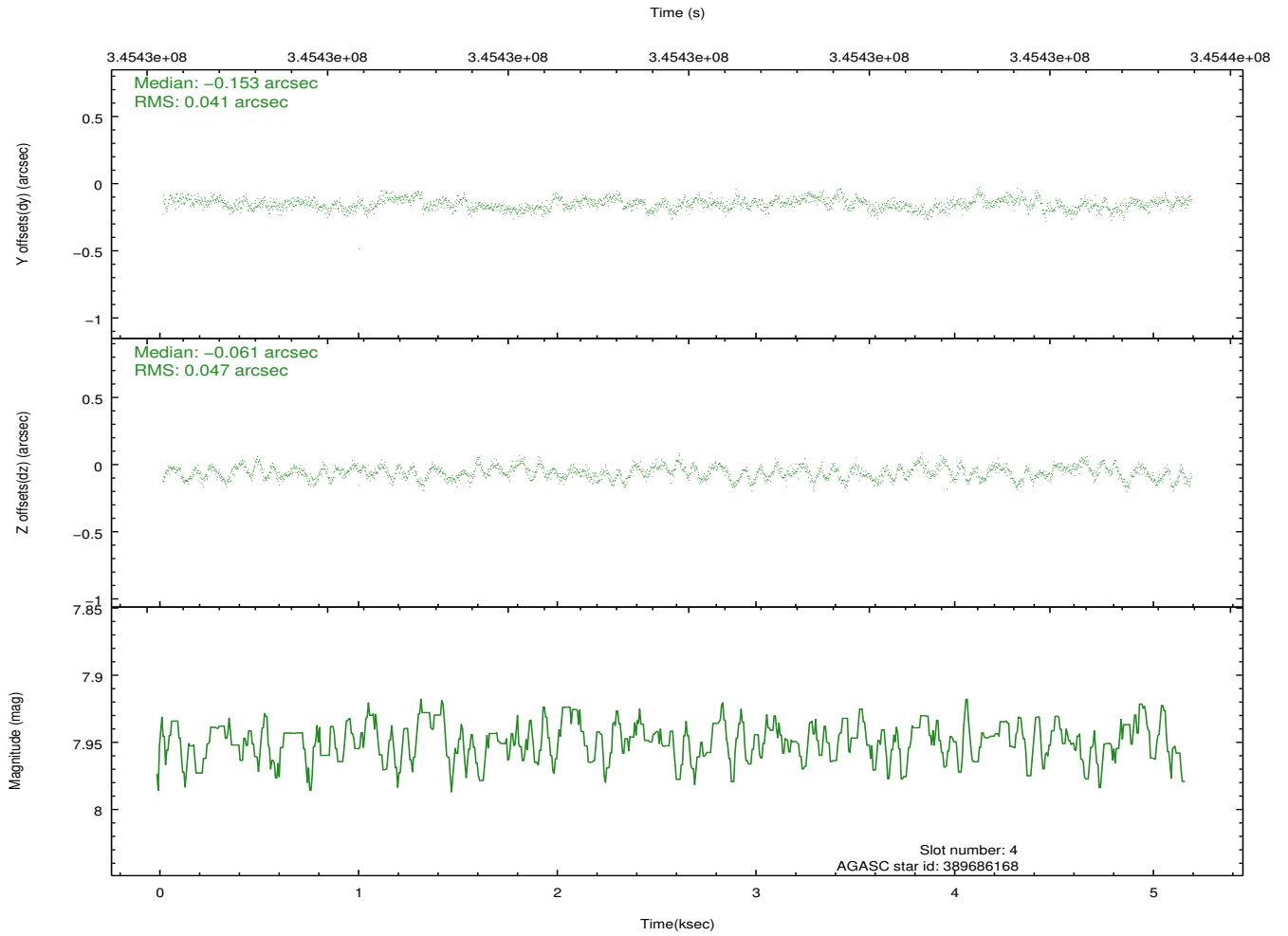
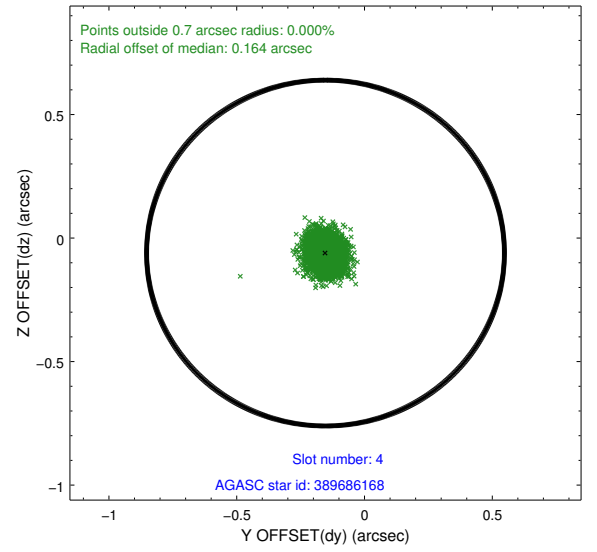
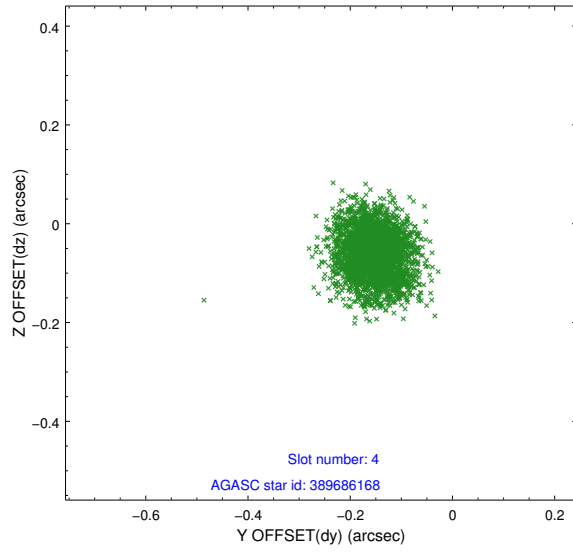
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.04	1263	0.075	-0.038	0.006	0.011	0.000000	0.000000	928.53	-1731.40
1	FID	ACIS-S-5	7.08	1263	-0.169	0.041	0.006	0.010	0.000000	0.000000	-1820.07	165.00
2	FID	ACIS-S-6	7.18	1263	0.073	0.009	0.006	0.010	0.000000	0.000000	392.80	810.27
3	GUIDE	389682528	7.40	2525	0.017	-0.221	0.092	0.155	123.228979	39.473170	-1560.34	2110.81
4	GUIDE	389686168	7.95	2526	-0.153	-0.061	0.067	0.104	123.299427	39.987029	217.53	1567.40
5	GUIDE	390211688	8.17	2526	0.120	0.132	0.065	0.108	124.053502	40.333325	1055.76	-703.64
6	GUIDE	390212912	8.14	2526	0.010	-0.115	0.067	0.106	123.725162	40.578543	2089.53	16.49
7	GUIDE	389812936	7.43	2525	0.002	0.263	0.066	0.105	124.874016	39.595365	-1961.03	-2458.91

## 2.4 Star Slots

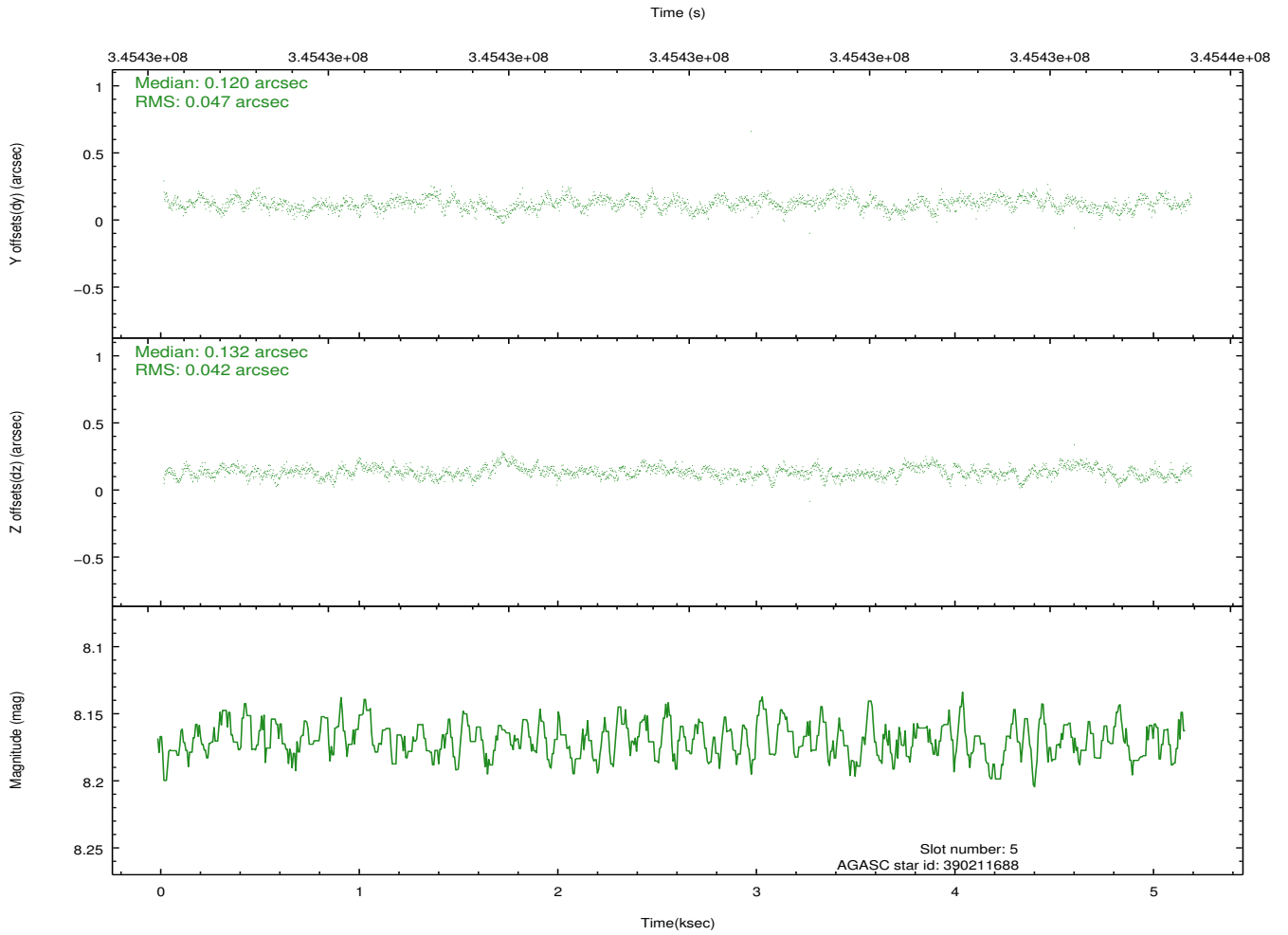
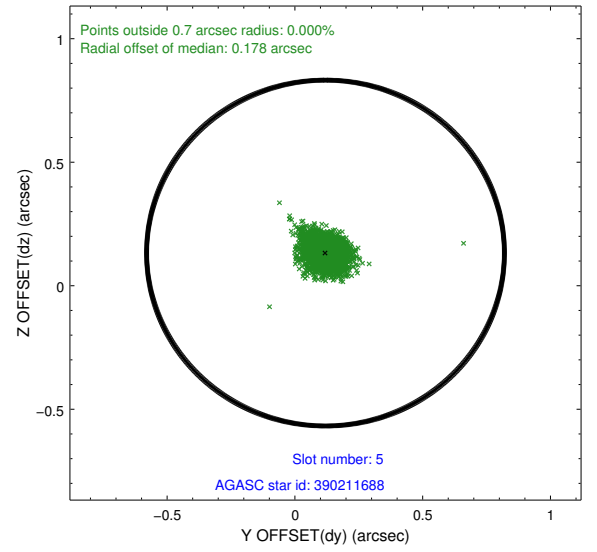
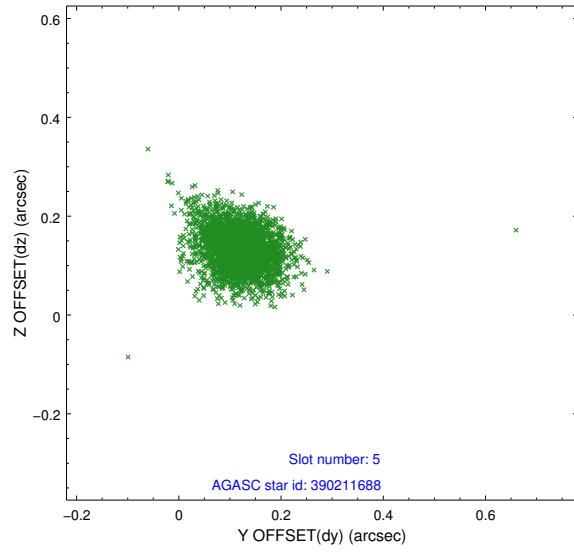
### 2.4.1 Slot 3



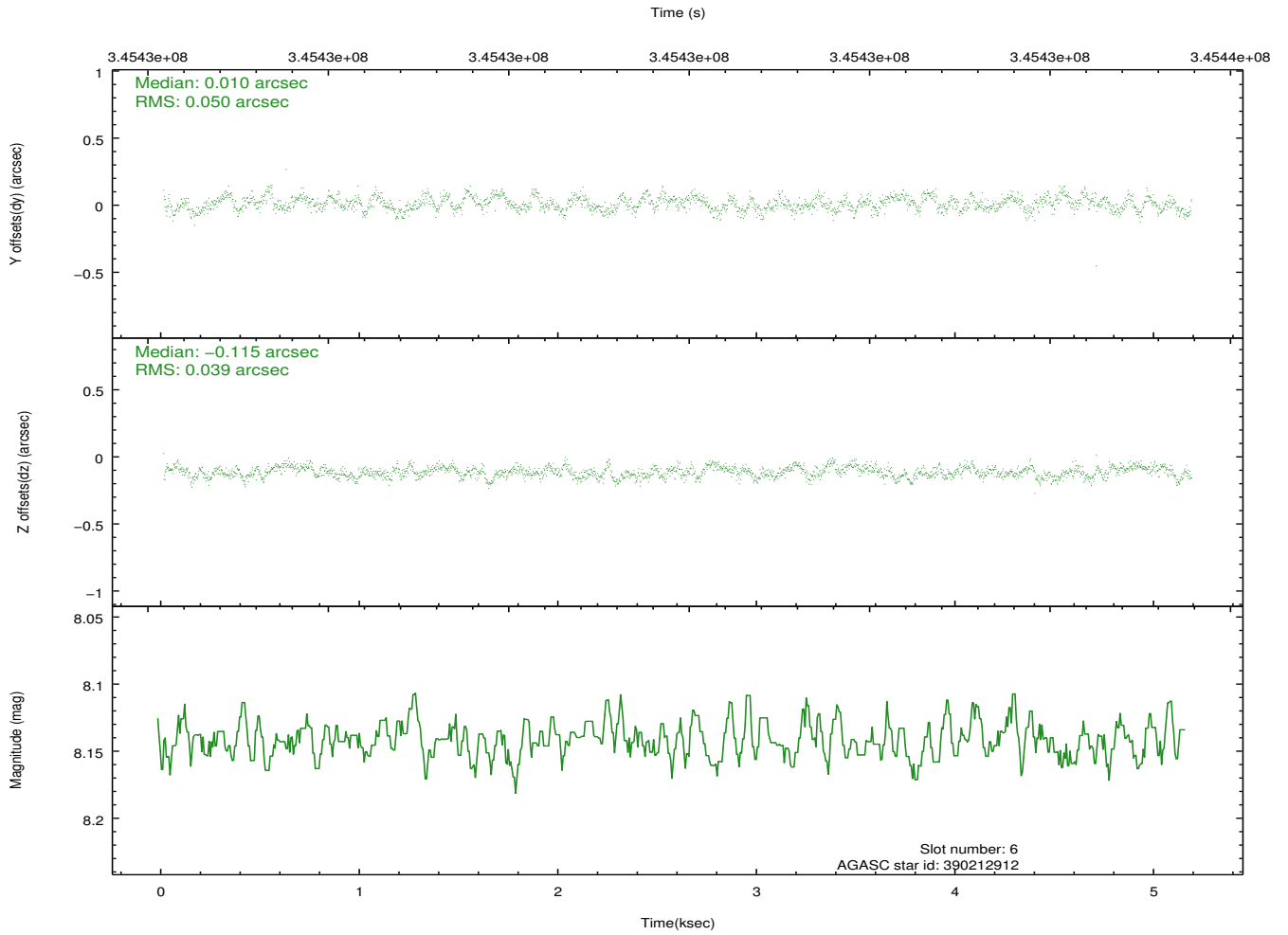
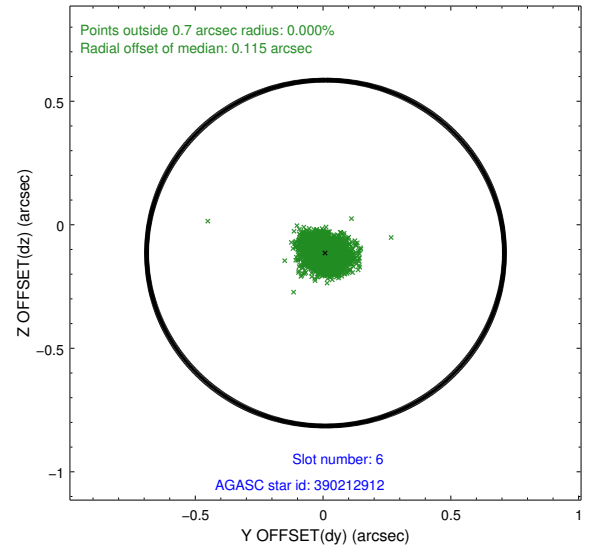
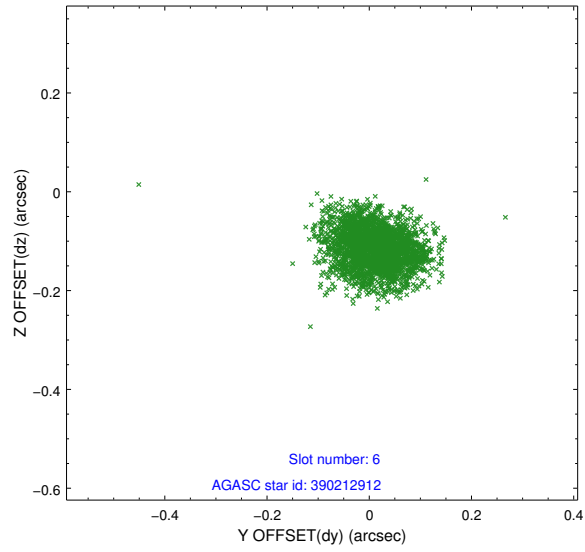
## 2.4.2 Slot 4



### 2.4.3 Slot 5

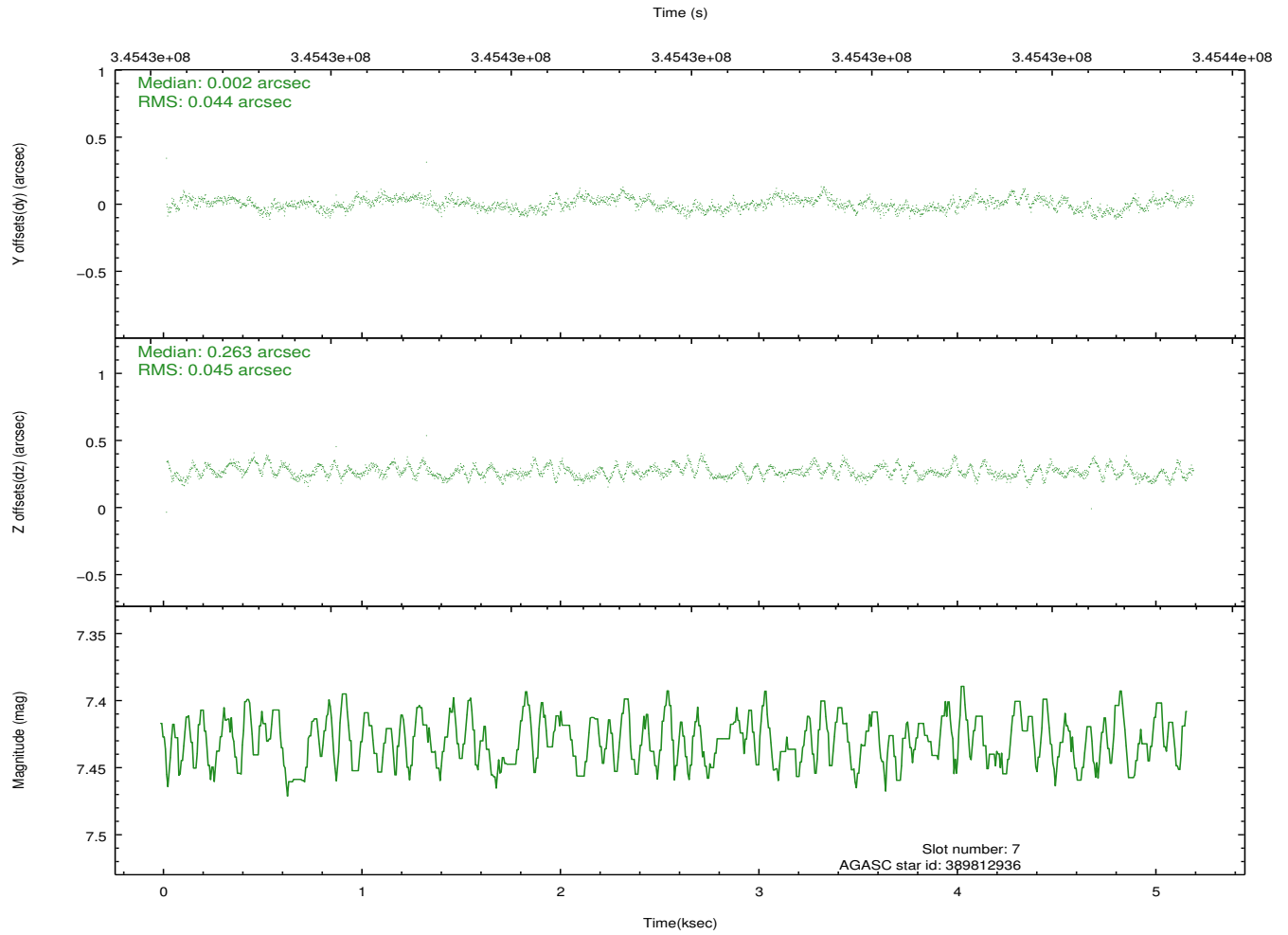
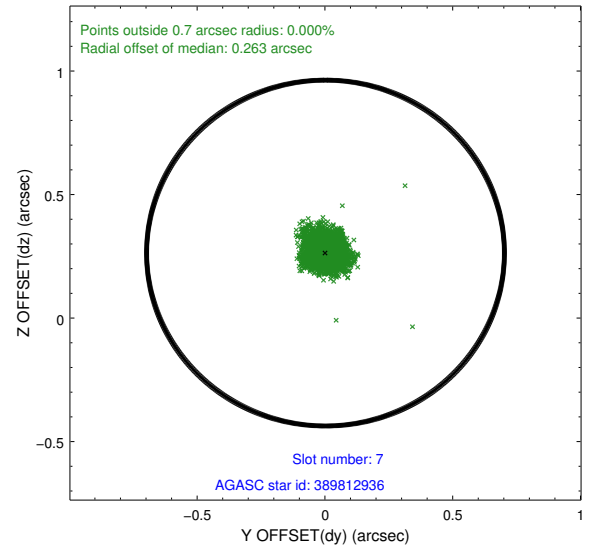
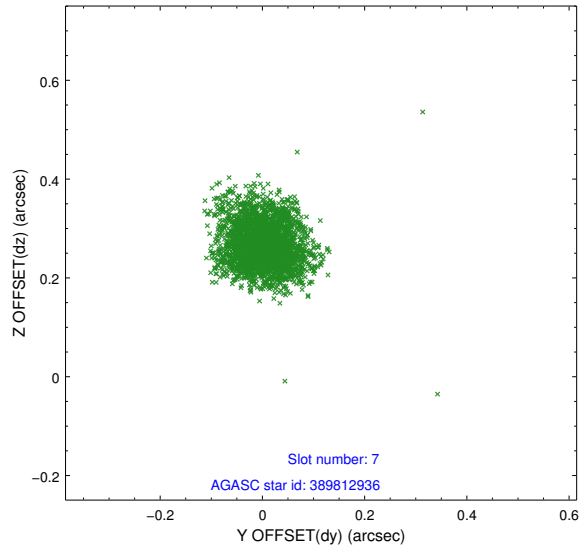


## 2.4.4 Slot 6



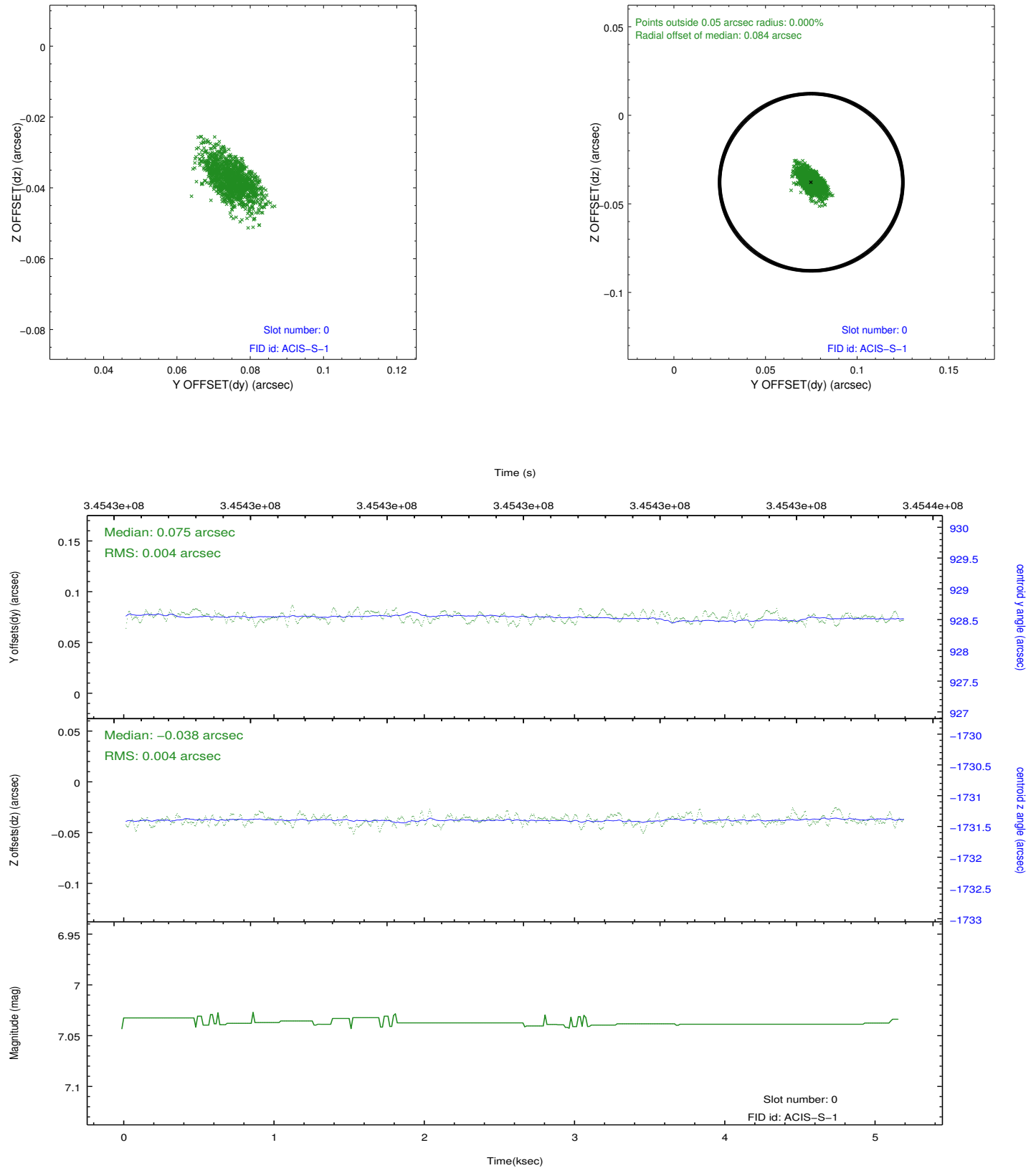


## 2.4.5 Slot 7

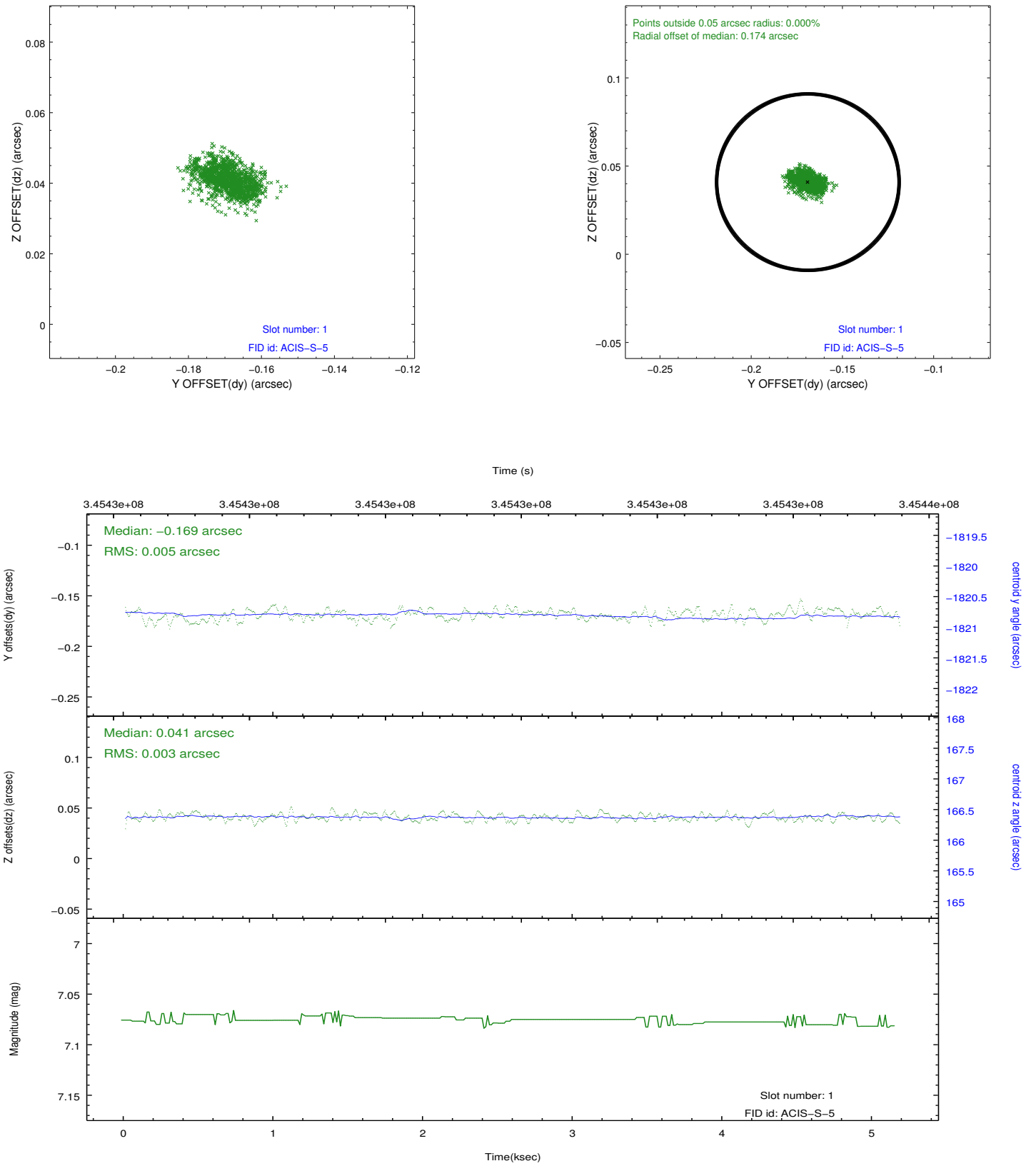


## 2.5 FID Slots

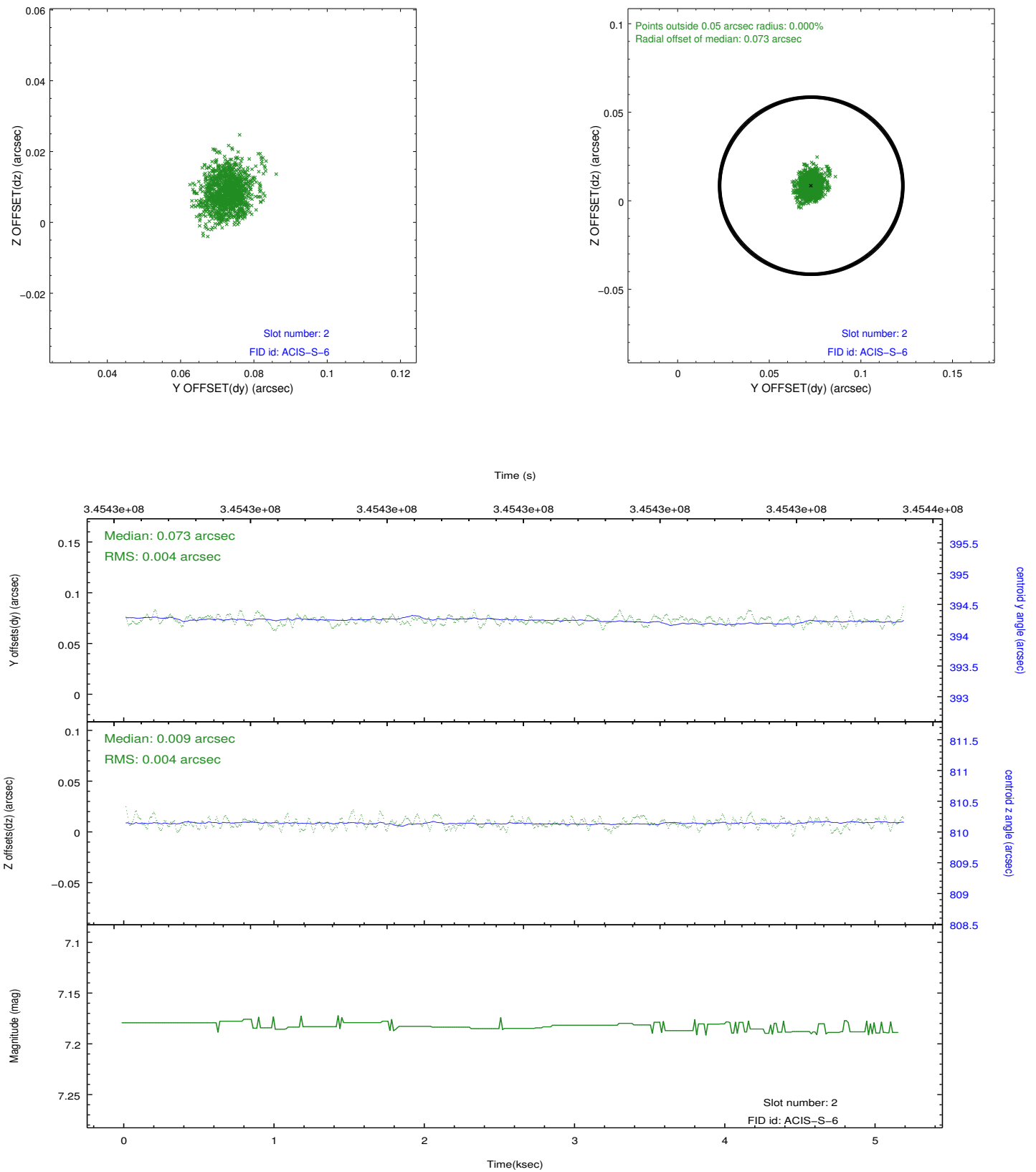
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.17080003

### A.2 Comments