

# V&V Reference Report

## L2 ASCDS Version : 10.7

Observation 21146 - L2 Version 1  
Chandra X-Ray Center

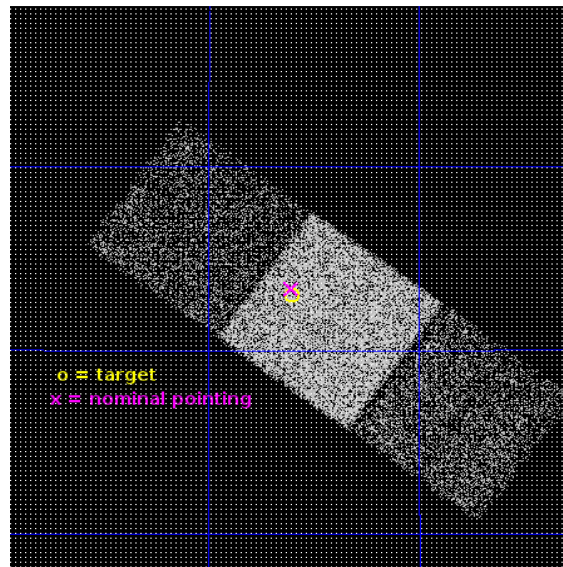
L2 Processing Date : Nov 7 2018

## 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

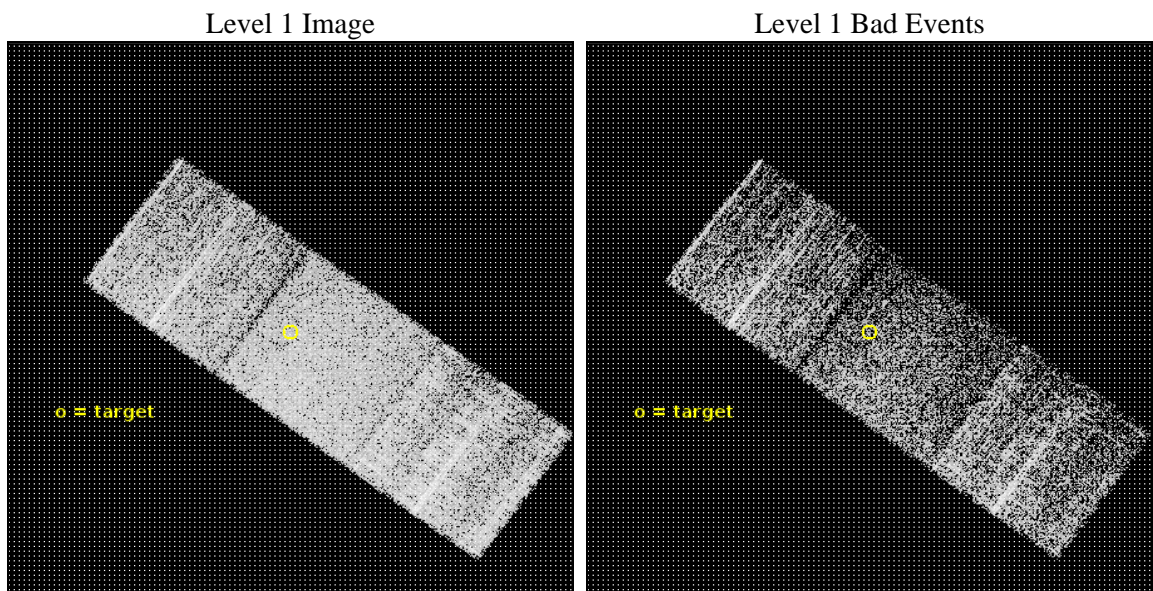
seq_num	703686	Sequence number
obs_id	21146	Observation id
title	A Chandra view of Eddington-limited accretion in DOGs	Proposal tit
observer	Dr. Gordon Garmire	Principal investigator
object	J1248+4242	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	192.150417	Observer's specified target RA [deg]
dec_targ	42.716472	Observer's specified target Dec [deg]
ra_nom	192.15145334196	Nominal RA [deg]
dec_nom	42.722817538044	Nominal Dec [deg]
roll_nom	36.15583500788	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5414.2866026163	Sum of GTIs [s]
livetime	5343.5449622133	Livetime [s]
ontime6	5414.2455626726	Sum of GTIs [s]
ontime7	5414.2866026163	Sum of GTIs [s]
ontime8	5414.2045226097	Sum of GTIs [s]
l2events	30726	Number of level 2 events



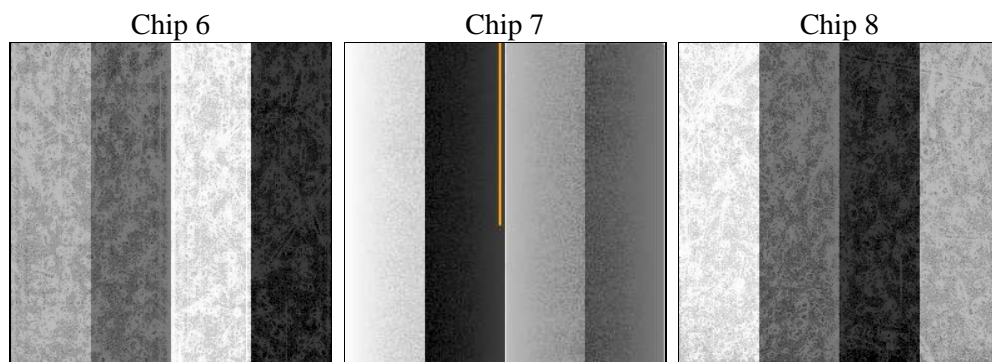
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5300.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	5414.2866026163	Sum of GTIs [s]
caldsver	4.8.0.1	&#160	ontime6	5414.2455626726	Sum of GTIs [s]
date	2018-11-07T23:24:23	Date and time of file creation	ontime7	5414.2866026163	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	5414.2045226097	Sum of GTIs [s]
			l1events	143954	Number of level 1 events

### 2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	39914	51173	52867
rejected events	35322	28938	37508
rejected %	88%	56%	70%

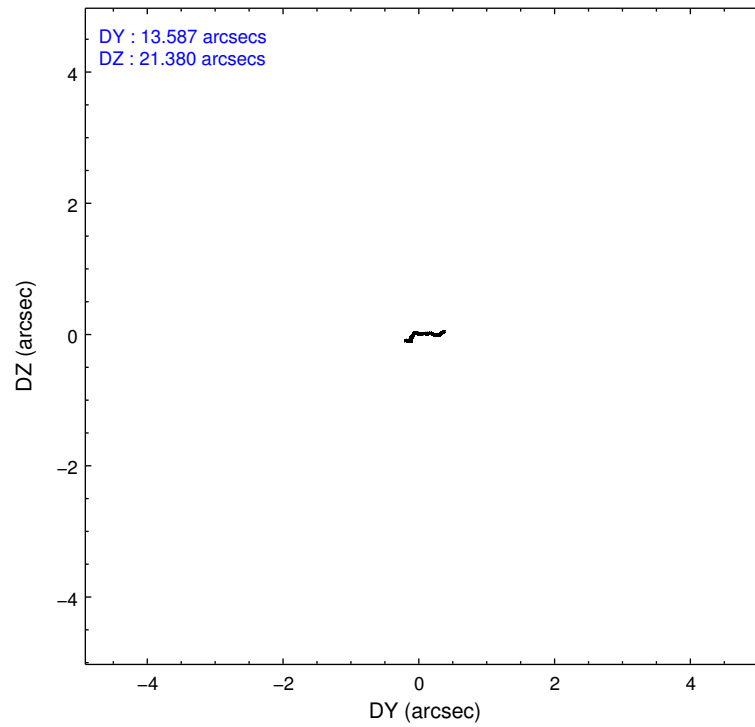
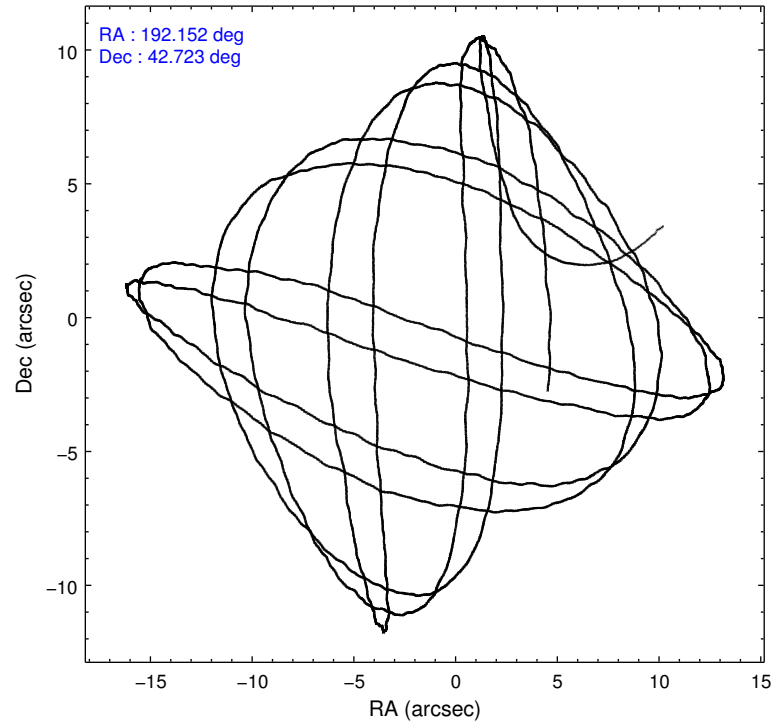
	ccd 6	ccd 7	ccd 8
grade 0 events	1463	1906	4391
	3%	3%	8%
grade 1 events	21	80	47
	0%	0%	0%
grade 2 events	1123	4798	3695
	2%	9%	6%
grade 3 events	439	1772	1625
	1%	3%	3%
grade 4 events	428	1700	1543
	1%	3%	2%
grade 5 events	1880	5037	2810
	4%	9%	5%
grade 6 events	1141	12063	4110
	2%	23%	7%
grade 7 events	33419	23817	34646
	83%	46%	65%

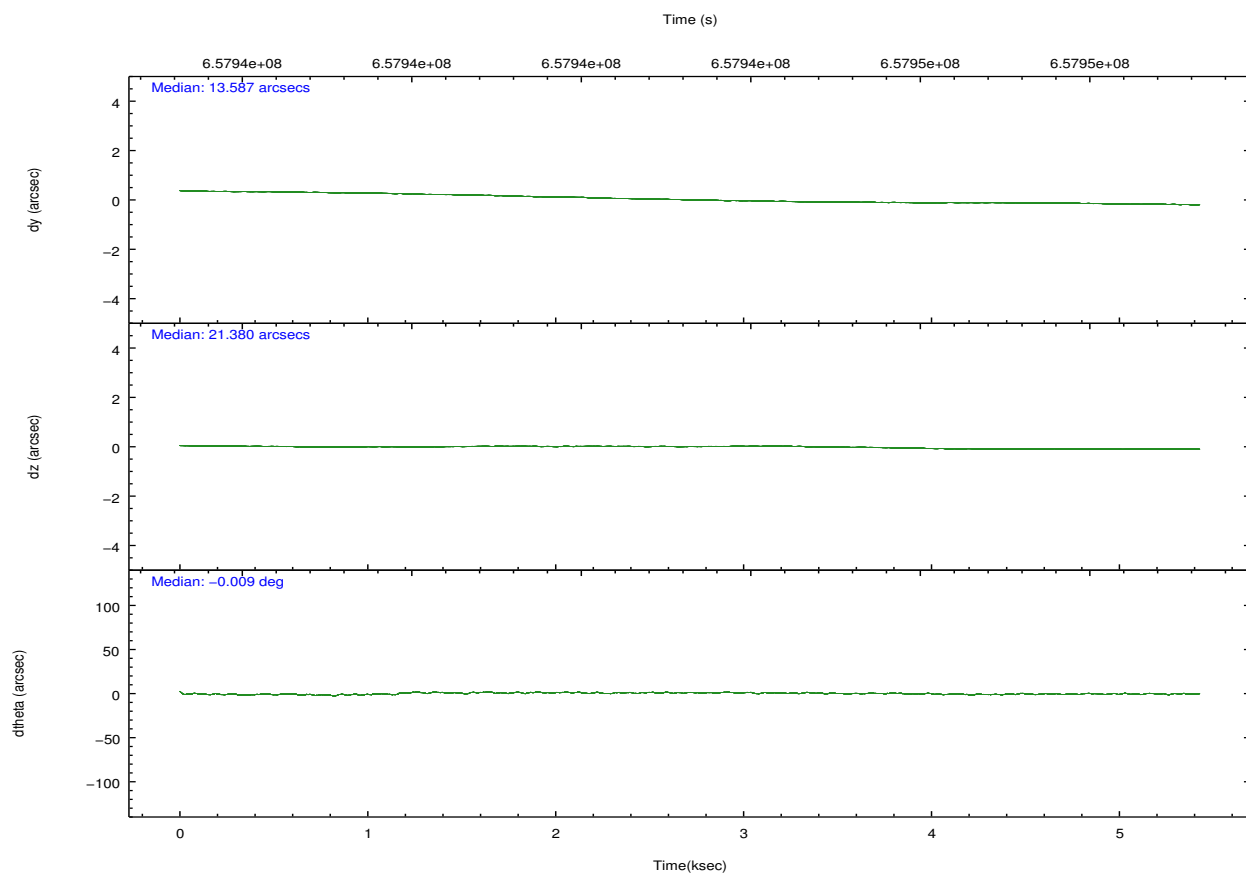
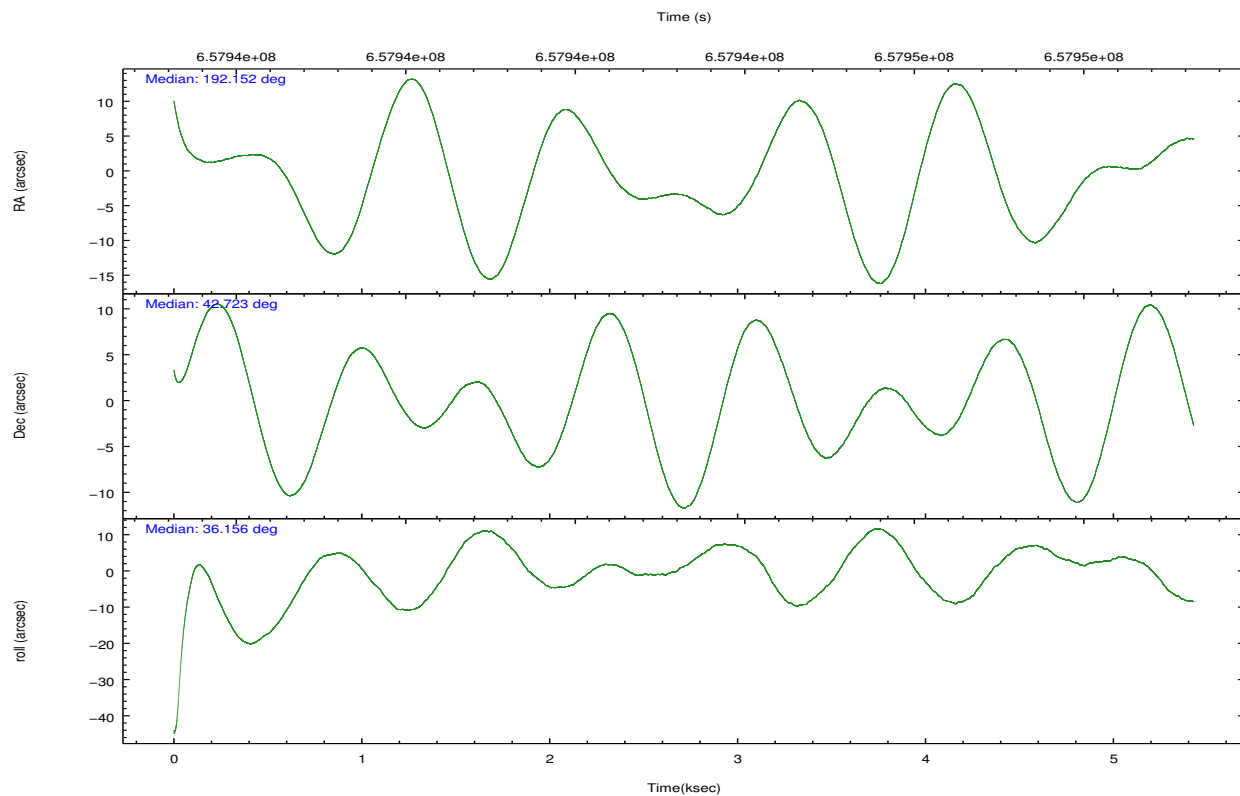


## 2.2 Compared Parameters

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	192.136719	192.1514533419614	Subarray requested	NONE	NONE
[deg] Pointing Dec	42.697427	42.72281753804351	Alternating exposures requested	N	N
[deg] Pointing Roll	36.009289	36.15583500787991	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	657942059.184000	657941290.79177			
Observation start date	2018-11-07T01:39:50	2018-11-07T01:28:10			
[s] Observation end time (MET)	657947359.184000	657947881.54216			
Observation end date	2018-11-07T03:08:10	2018-11-07T03:18:01			
Read mode	TIMED	TIMED			

## 2.3 Aspect



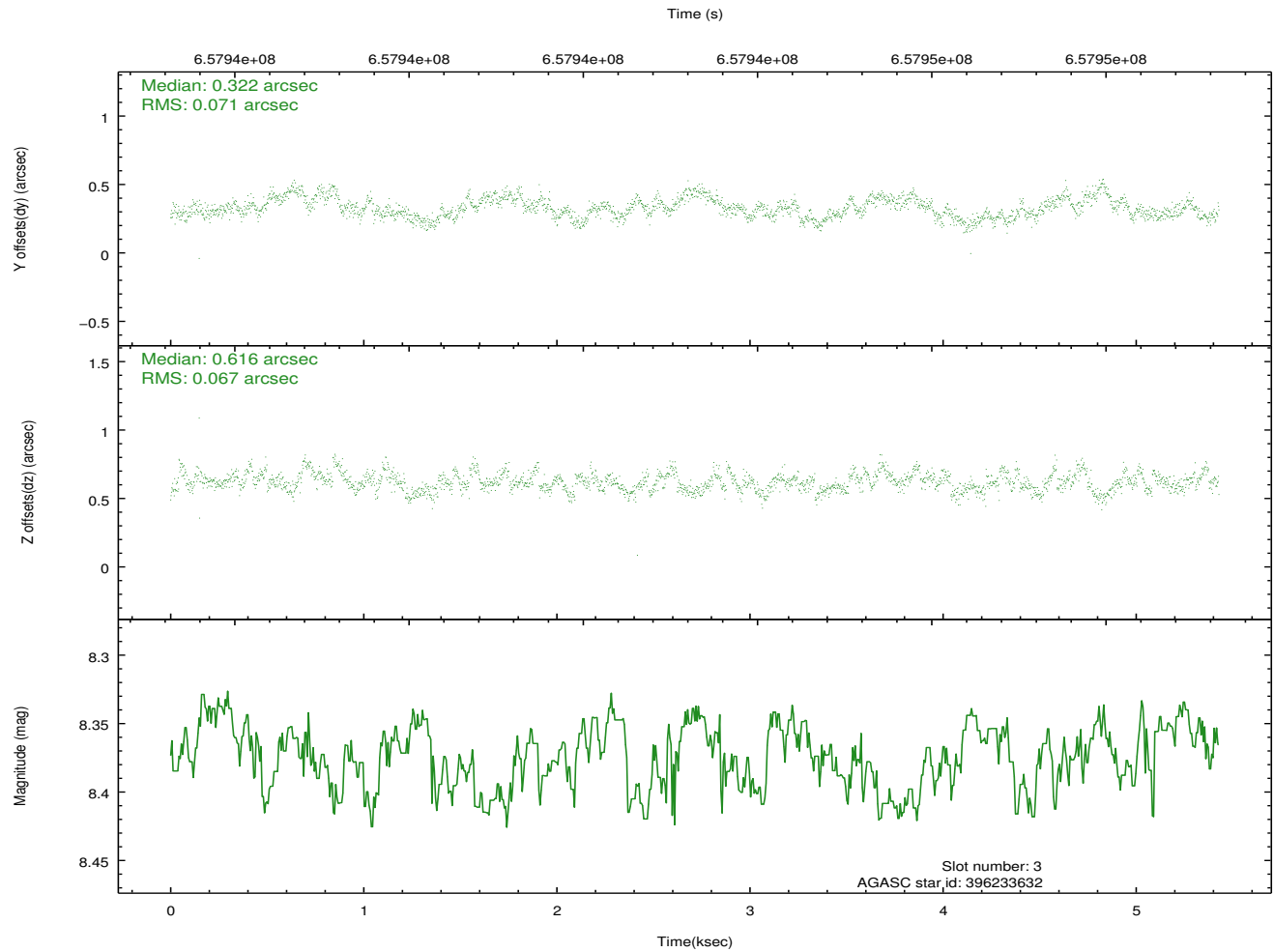
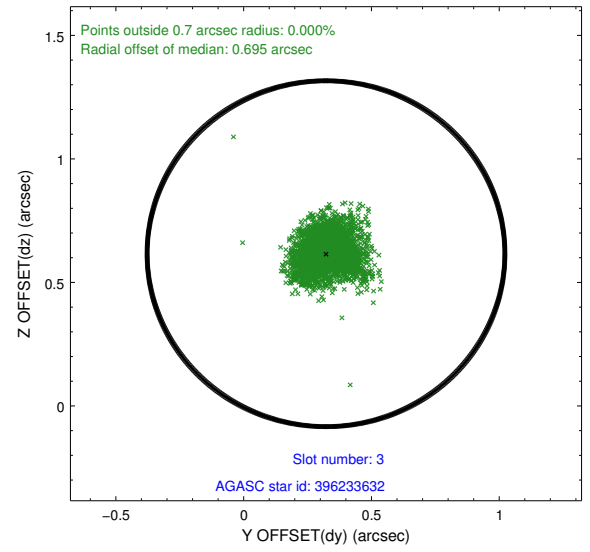
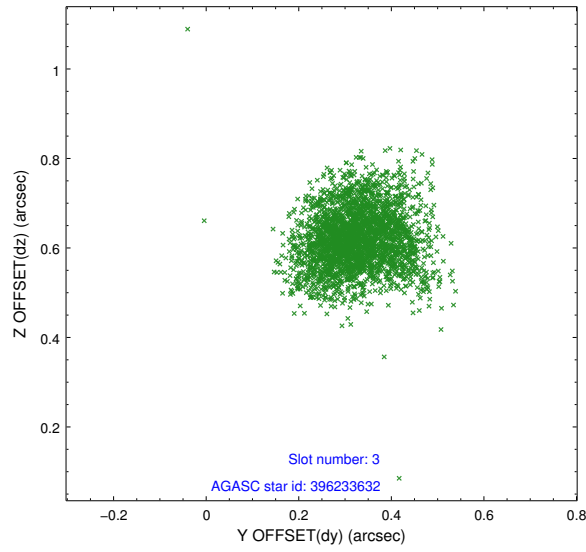


Slot Statistics

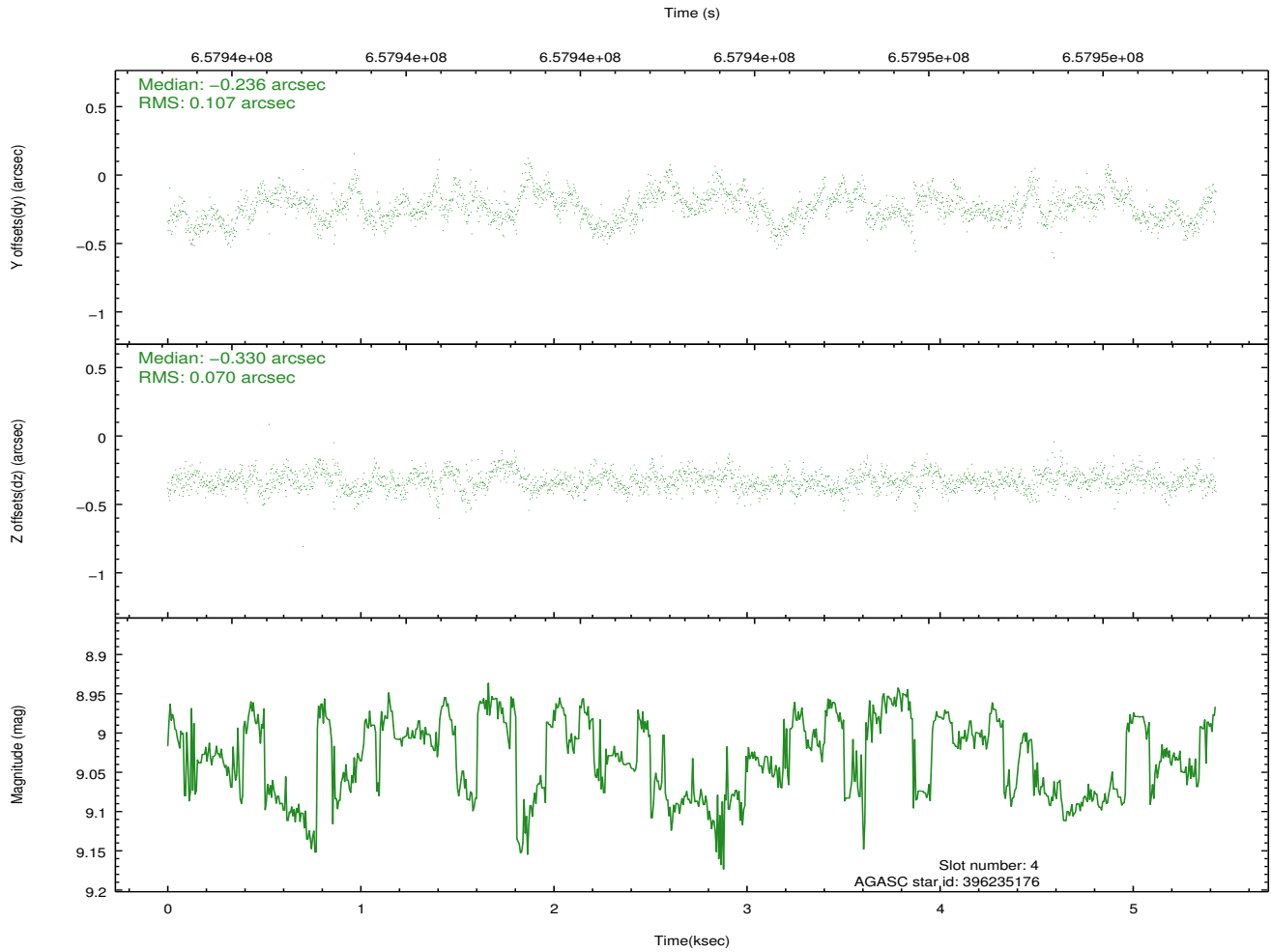
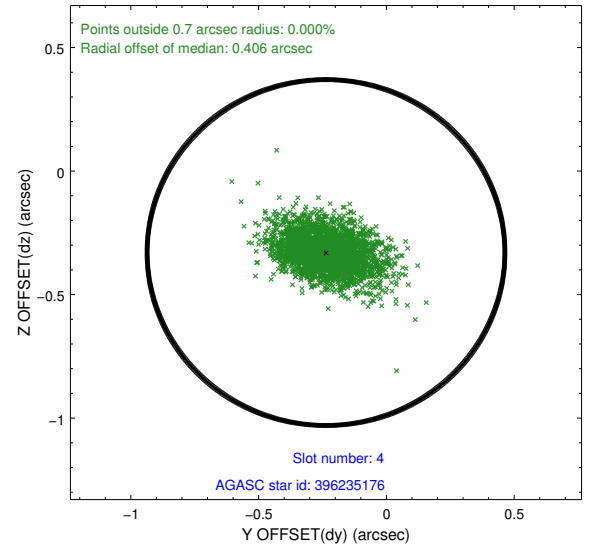
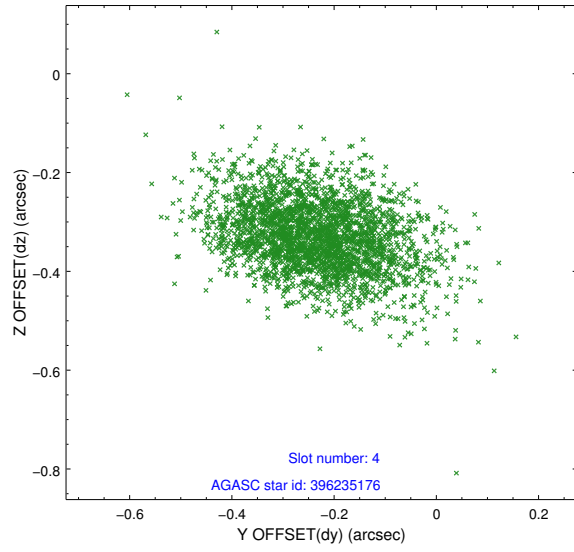
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-4	7.18	1324	1.000	0.537	0.020	0.008	0.014	0.000000	0.000000	2147.30	165
1	FID		ACIS-S-5	7.18	1324	1.000	-0.665	-0.016	0.009	0.016	0.000000	0.000000	-1818.67	159
2	FID		ACIS-S-6	7.31	1324	1.000	0.101	0.010	0.007	0.013	0.000000	0.000000	393.88	803
3	GUIDE	used	396233632	8.37	2647	1.000	0.322	0.616	0.103	0.165	192.089383	41.993576	-1592.62	-1973
4	GUIDE	used	396235176	9.03	2645	1.000	-0.236	-0.330	0.131	0.228	192.974589	42.891585	2203.82	-725
5	GUIDE	used	396236584	8.09	2649	1.000	-0.497	-0.623	0.105	0.176	191.701868	43.151864	39.64	1996
6	GUIDE	used	396236752	8.75	2646	1.000	0.038	-0.049	0.143	0.247	193.035570	42.653640	1841.03	-1516
7	GUIDE	used	396239264	8.56	2646	1.000	0.368	0.376	0.104	0.175	192.233365	42.077222	-1103.25	-1957

## 2.4 Star Slots

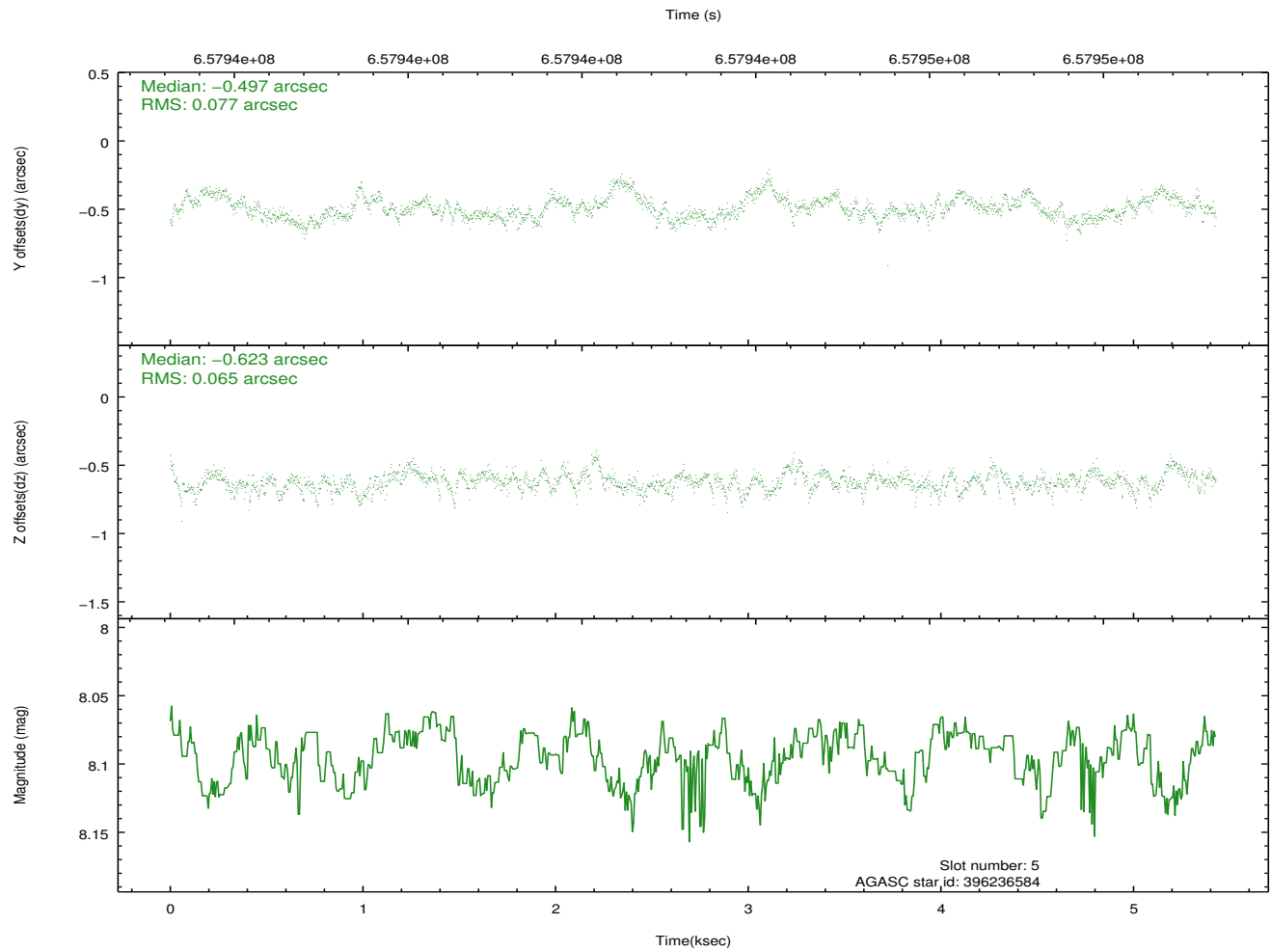
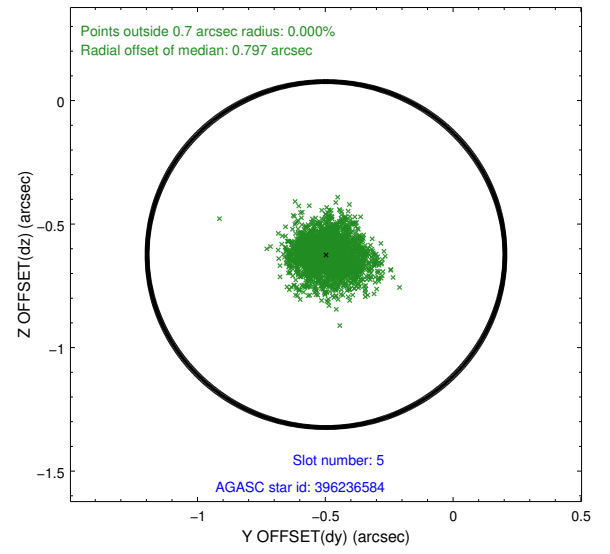
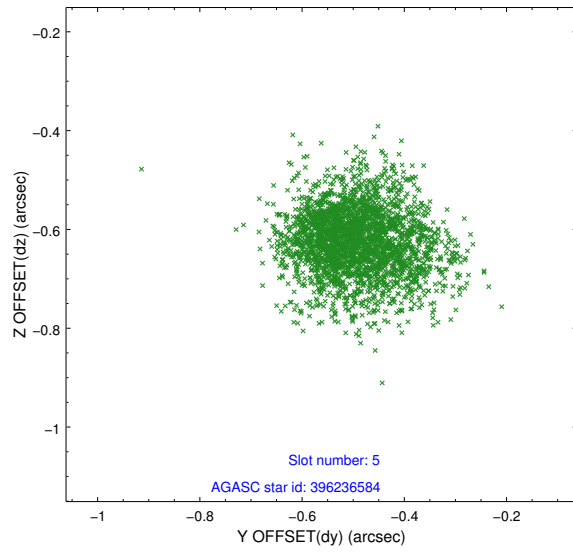
### 2.4.1 Slot 3



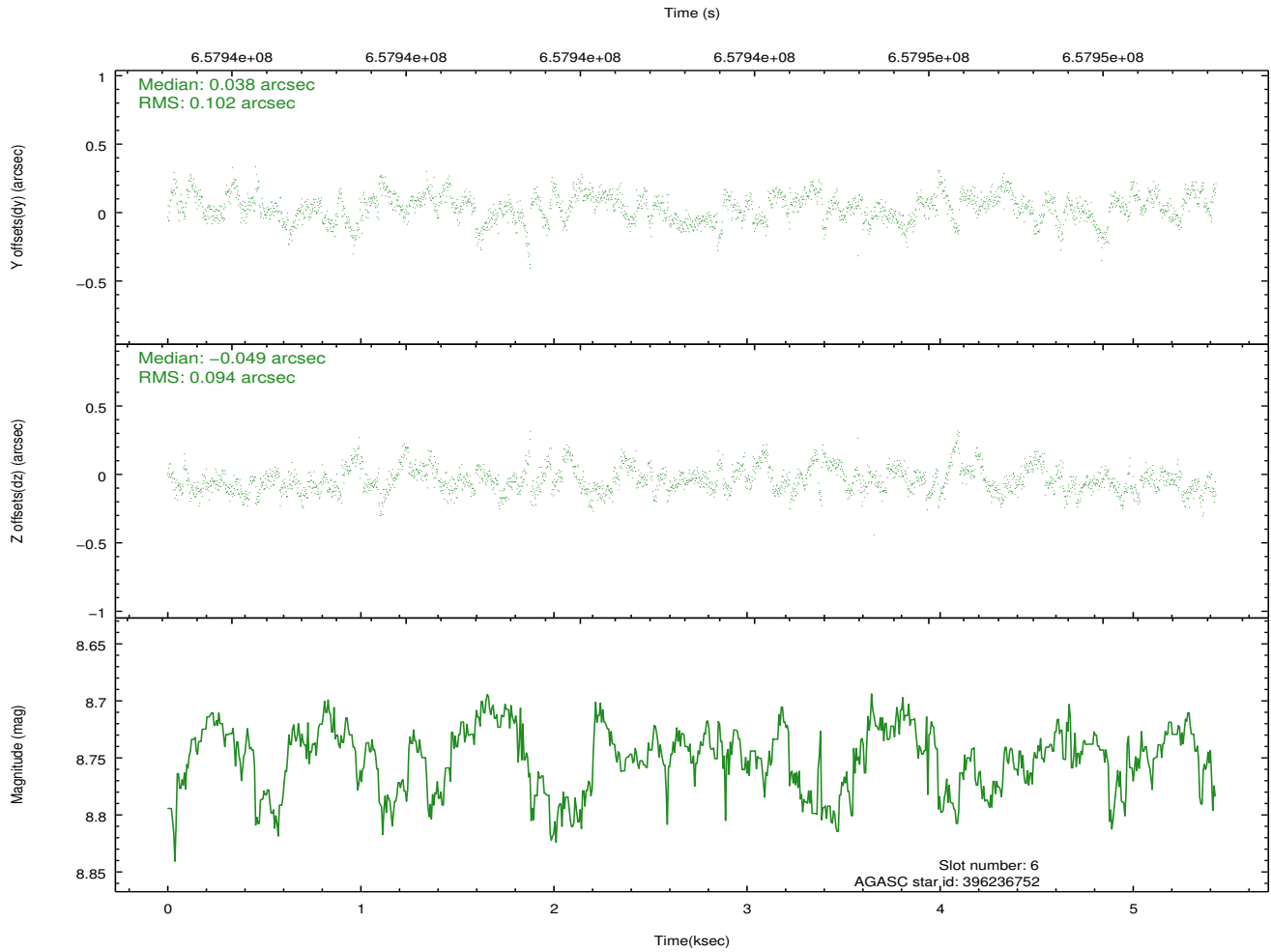
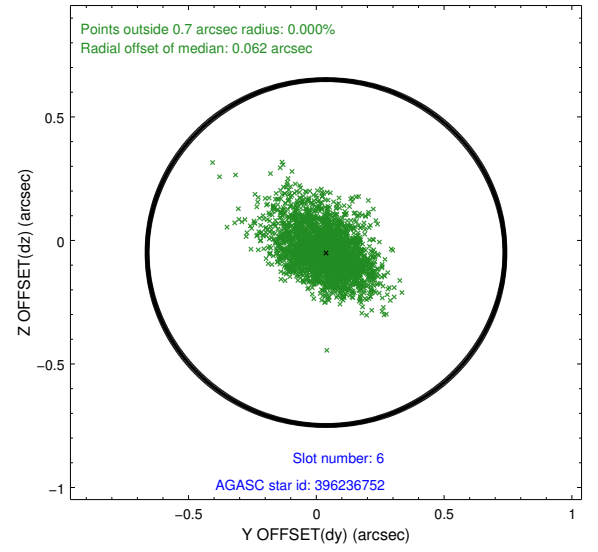
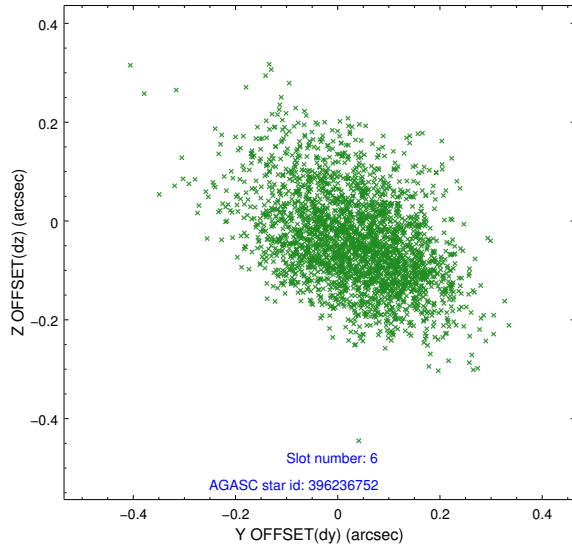
## 2.4.2 Slot 4



### 2.4.3 Slot 5

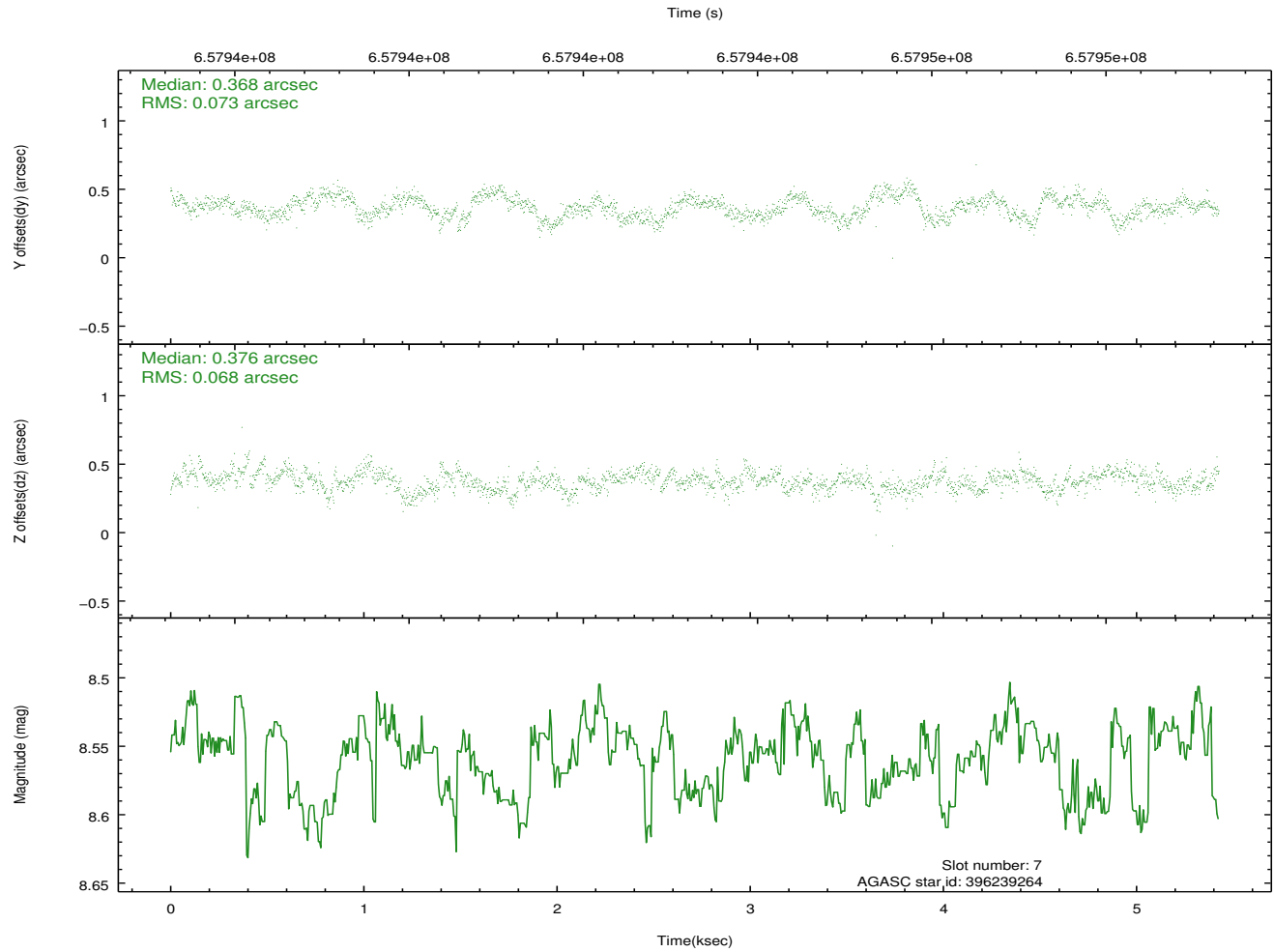
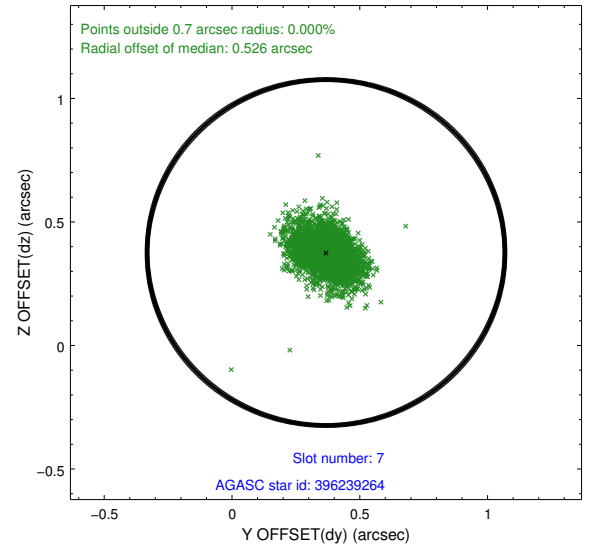
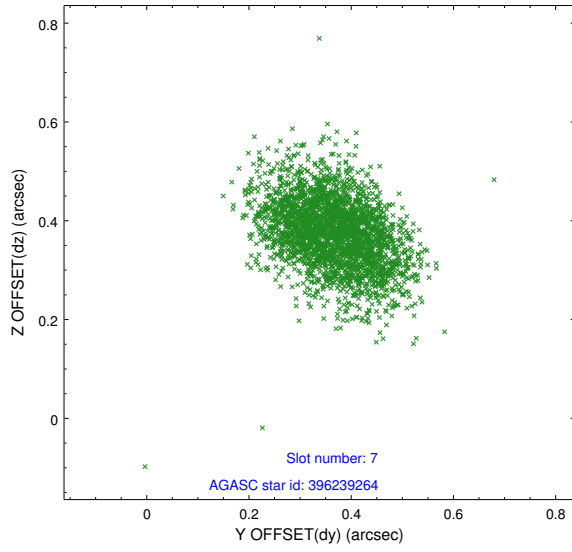


## 2.4.4 Slot 6



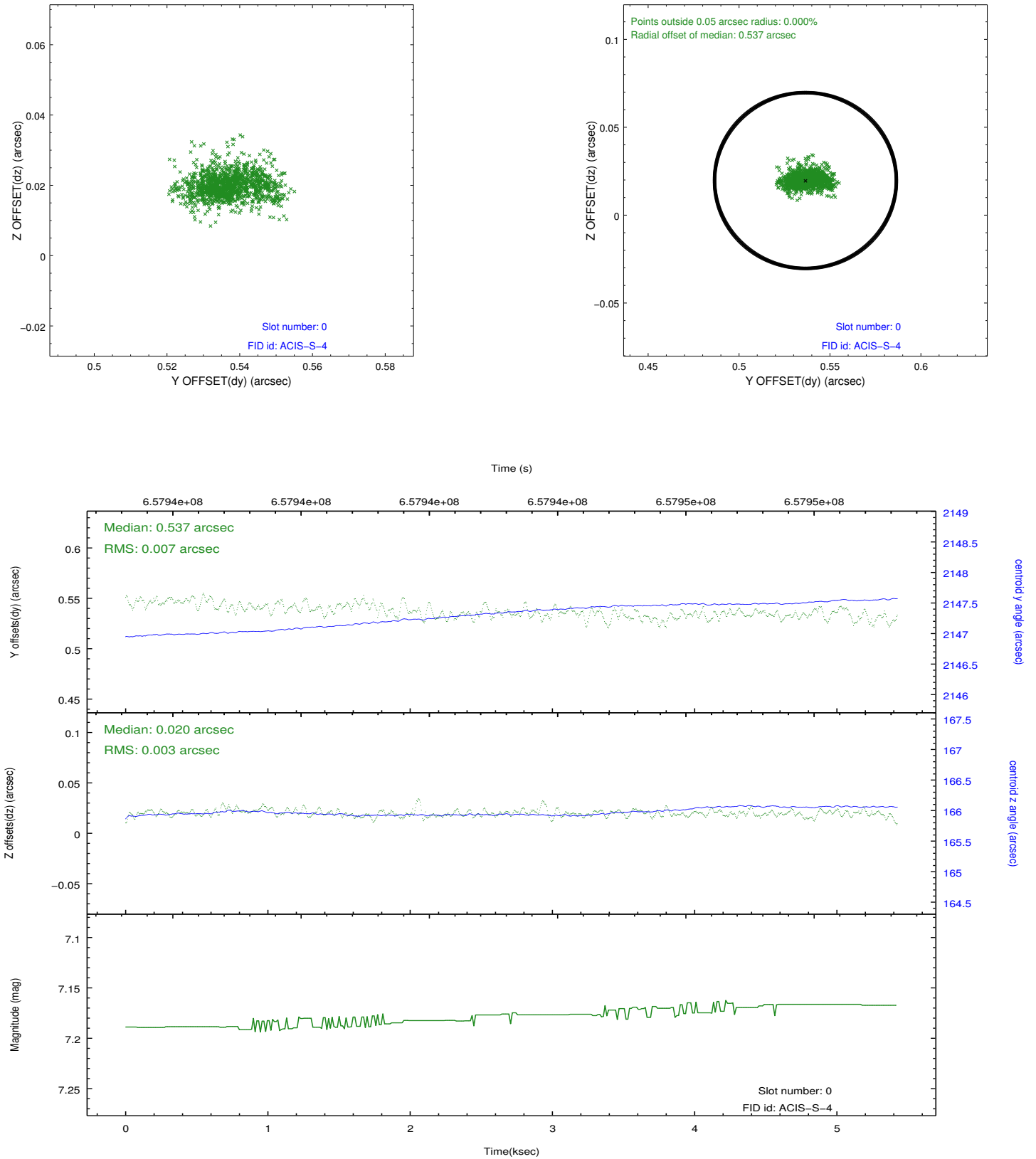


## 2.4.5 Slot 7

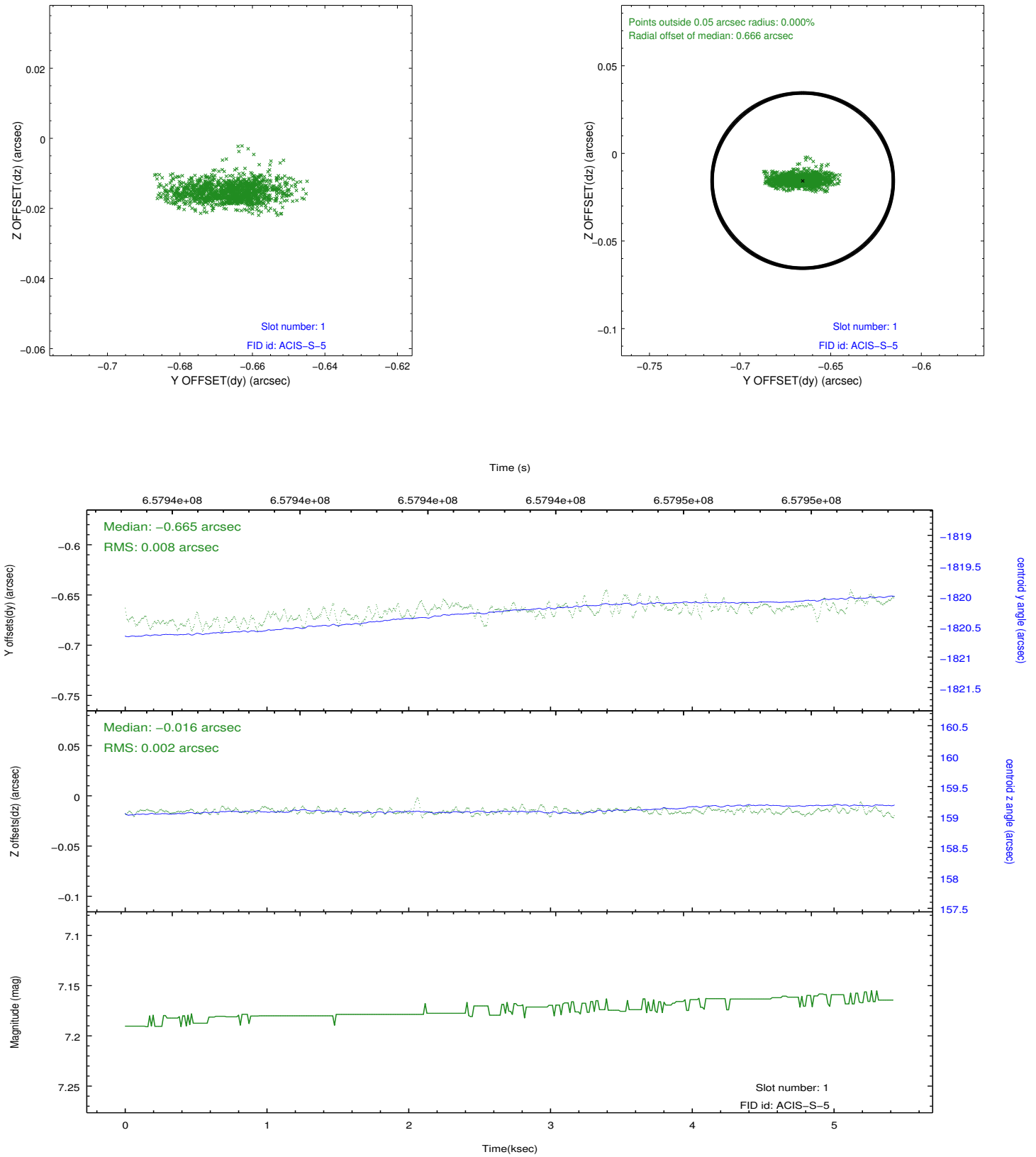


## 2.5 FID Slots

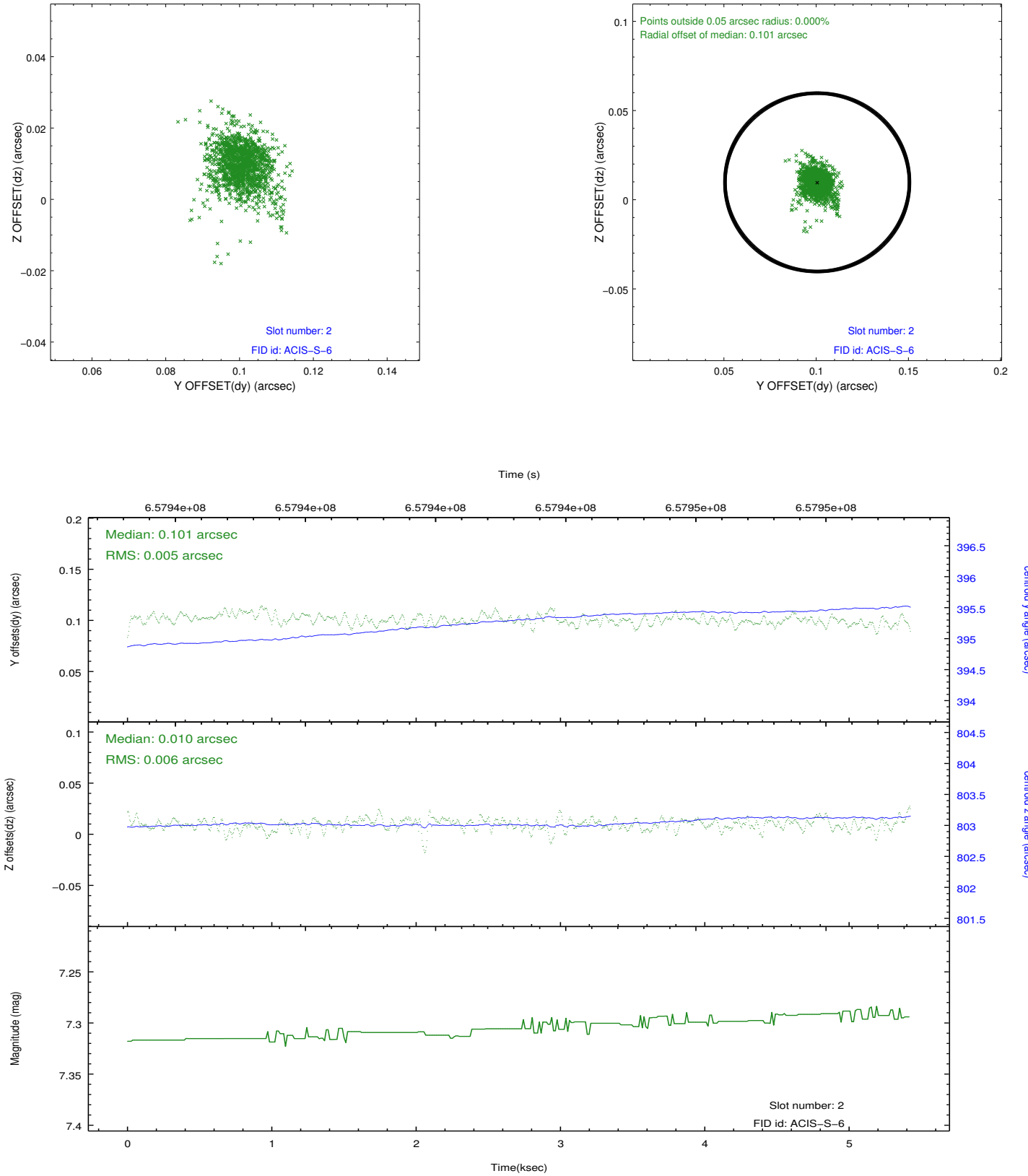
### 2.5.1 Slot 0



## 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)	2018.11.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.4142866026163

### A.2 Comments