

# V&V Reference Report

## L2 ASCDS Version : 10.5

Observation 19691 - L2 Version 2  
Chandra X-Ray Center

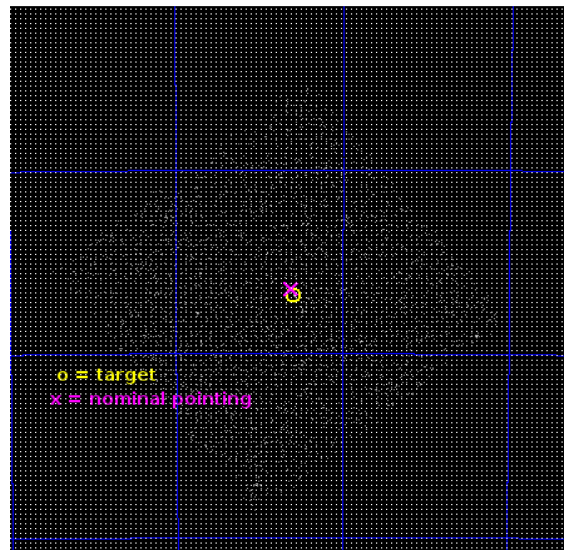
L2 Processing Date : Aug 15 2016

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# 1 Front

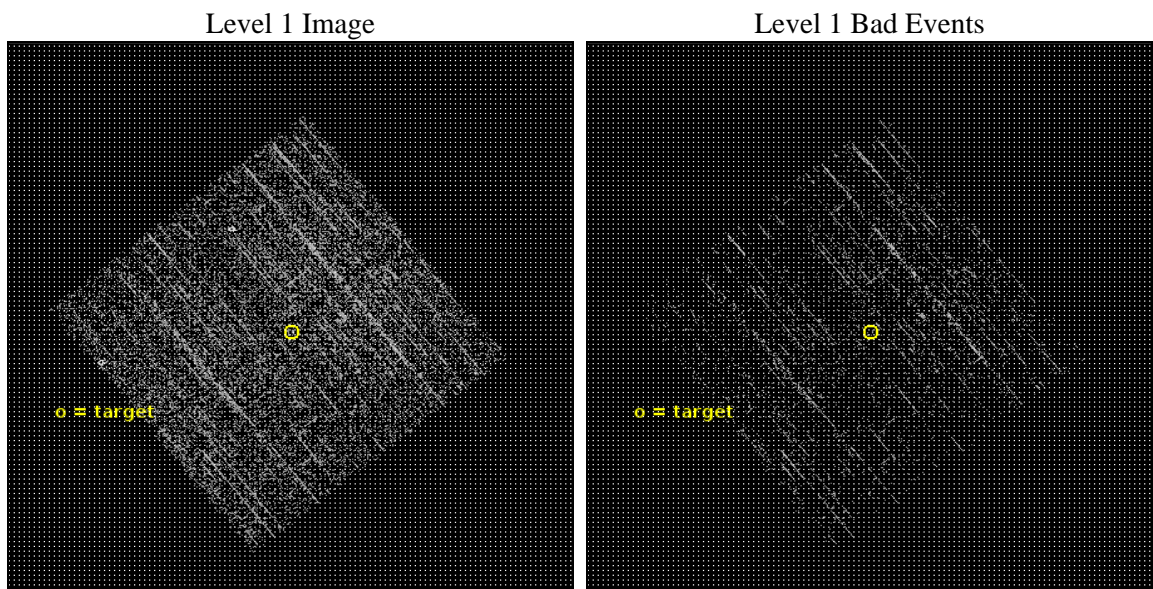
seq_num	401881	Sequence number
obs_id	19691	Observation id
title	Revealing the nature of the mysterious new SMC Transient: Swift J003233.6-7306	Proposal title
observer	Jamie Kennea	Principal investigator
object	SWIFT J003233.6-7306	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	8.147917	Observer's specified target RA [deg]
dec_targ	-73.114139	Observer's specified target Dec [deg]
ra_nom	8.1533163886044	Nominal RA [deg]
dec_nom	-73.108013969024	Nominal Dec [deg]
roll_nom	51.274107057617	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1081.90000844	Sum of GTIs [s]
livetime	1067.7641883465	Livetime [s]
ontime0	1081.90000844	Sum of GTIs [s]
ontime1	1081.90000844	Sum of GTIs [s]
ontime2	1081.90000844	Sum of GTIs [s]
ontime3	1081.90000844	Sum of GTIs [s]
l2events	2549	Number of level 2 events



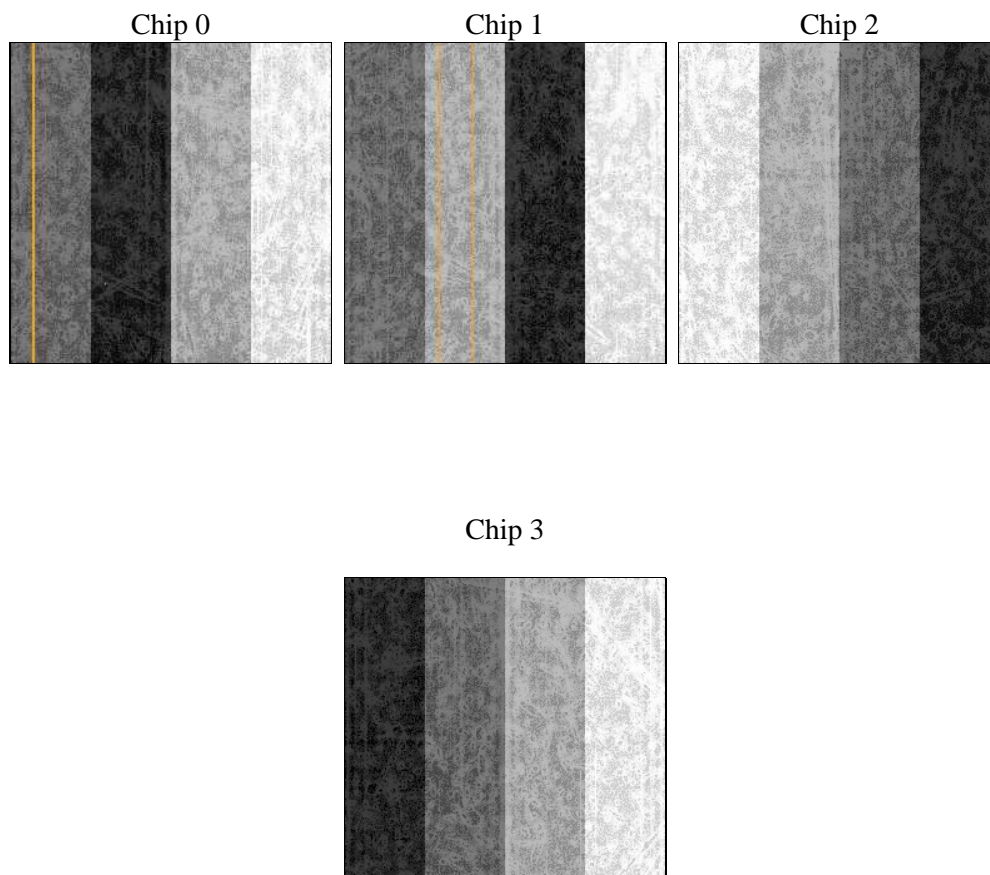
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	1081.90000844	Sum of GTIs [s]
caldsver	4.7.2	&#160	ontime0	1081.90000844	Sum of GTIs [s]
date	2016-08-15T21:06:16	Date and time of file creation	ontime1	1081.90000844	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1081.90000844	Sum of GTIs [s]
			ontime3	1081.90000844	Sum of GTIs [s]
			l1events	27582	Number of level 1 events

### 2.1.4 Events

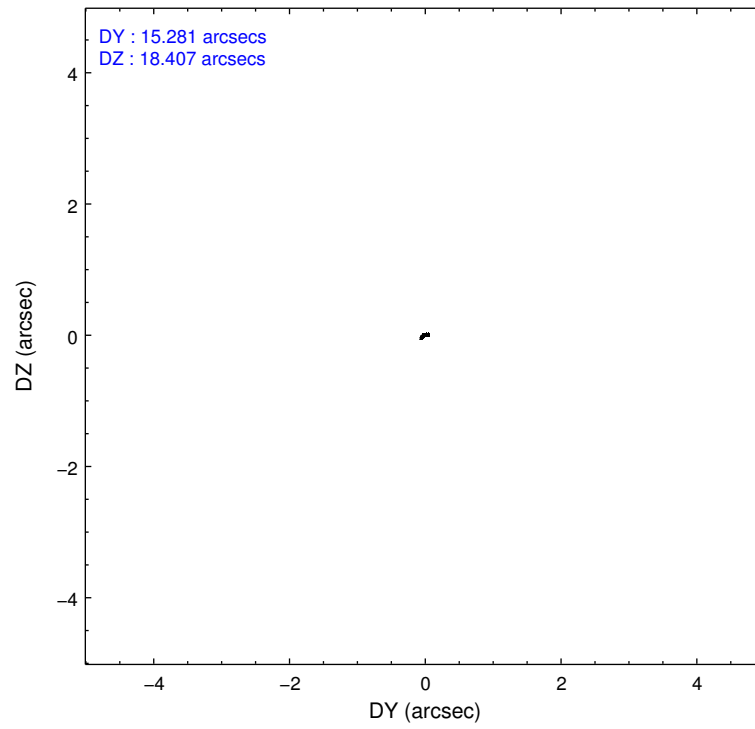
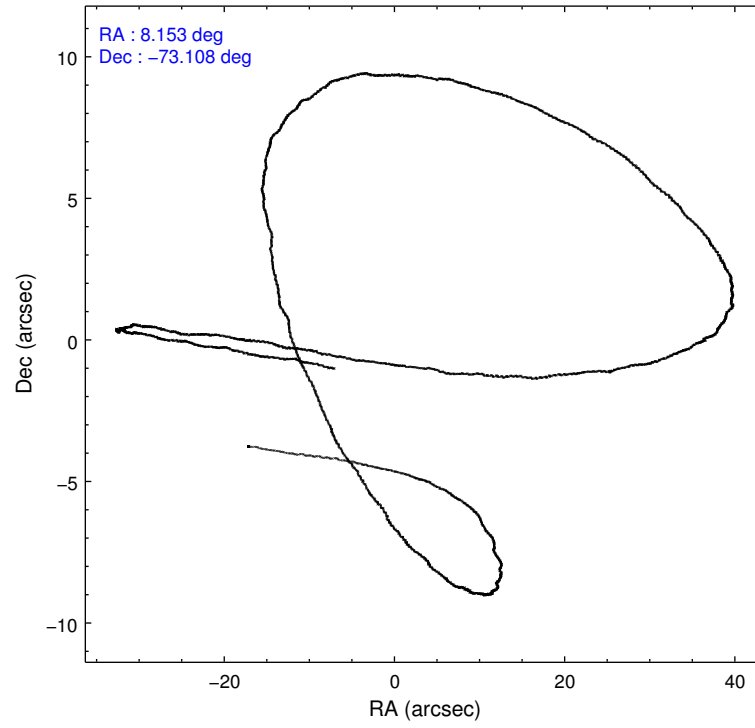
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	6533	6187	7852	7010
rejected events	5406	5382	6835	6231
rejected %	82%	86%	87%	88%

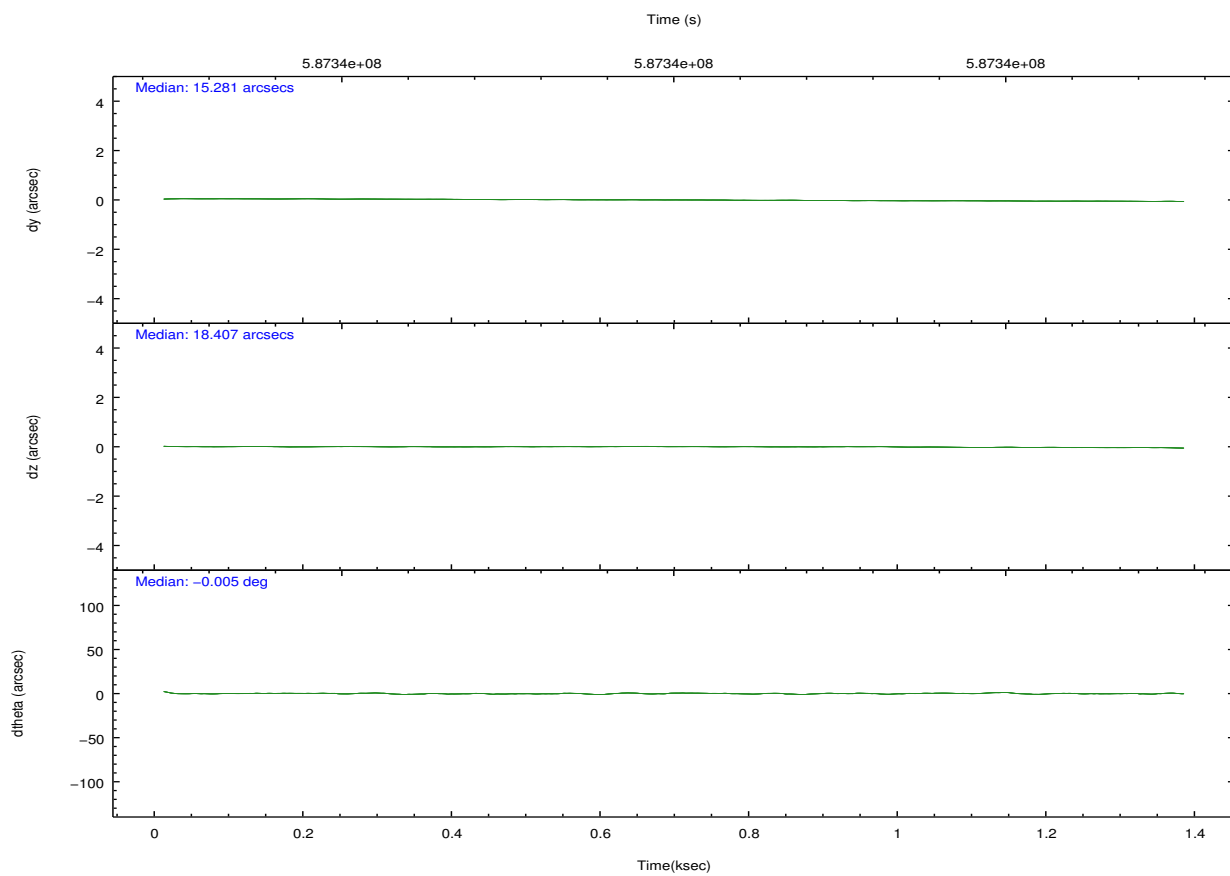
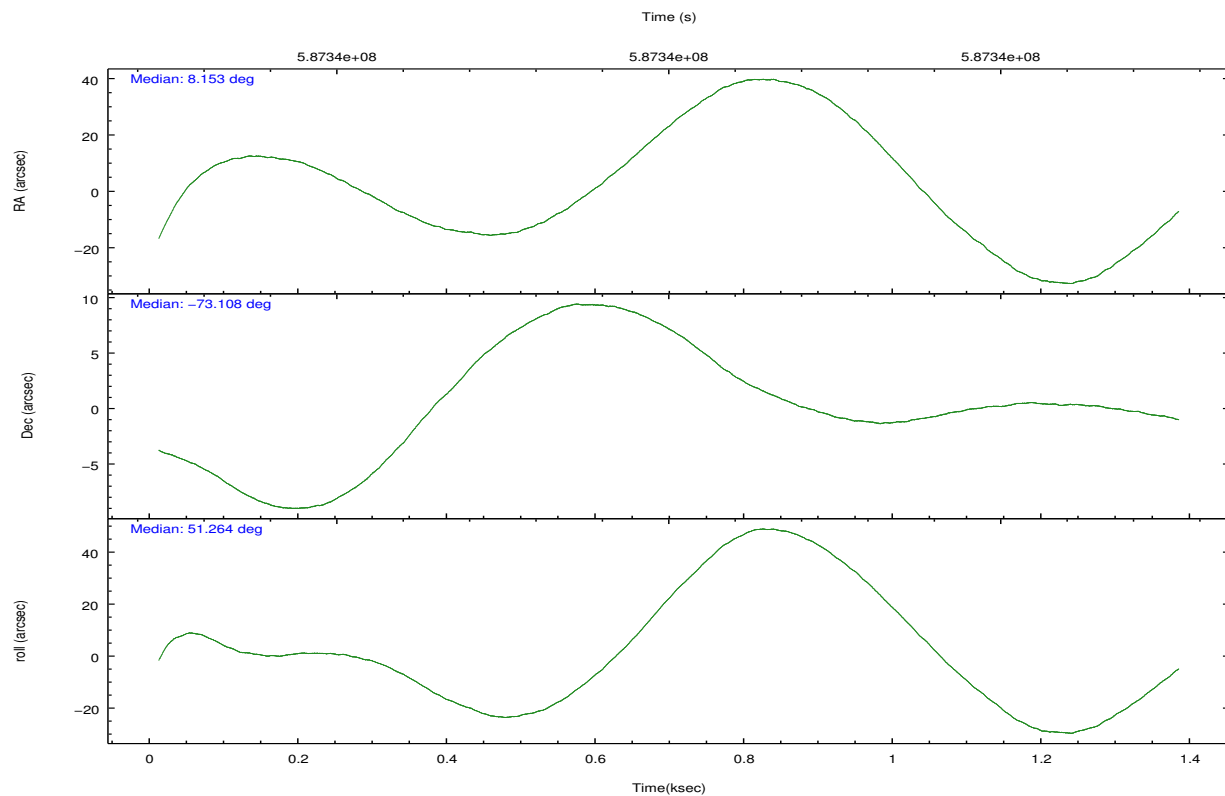
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	621	261	541	305
	9%	4%	6%	4%
grade 1 events	8	5	8	4
	0%	0%	0%	0%
grade 2 events	186	185	146	179
	2%	2%	1%	2%
grade 3 events	76	71	89	79
	1%	1%	1%	1%
grade 4 events	73	93	88	75
	1%	1%	1%	1%
grade 5 events	317	290	262	328
	4%	4%	3%	4%
grade 6 events	178	198	164	144
	2%	3%	2%	2%
grade 7 events	5074	5084	6554	5896
	77%	82%	83%	84%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	8.140555	8.153316388604367	Subarray requested	NONE	NONE
[deg] Pointing Dec	-73.134928	-73.10801396902441	Alternating exposures requested	N	N
[deg] Pointing Roll	51.052990	51.27410705761697	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	587343681.184000	587342708.54328			
Observation start date	2016-08-11T23:00:13	2016-08-11T22:45:08			
[s] Observation end time (MET)	587344681.184000	587345332.54343			
Observation end date	2016-08-11T23:16:53	2016-08-11T23:28:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect





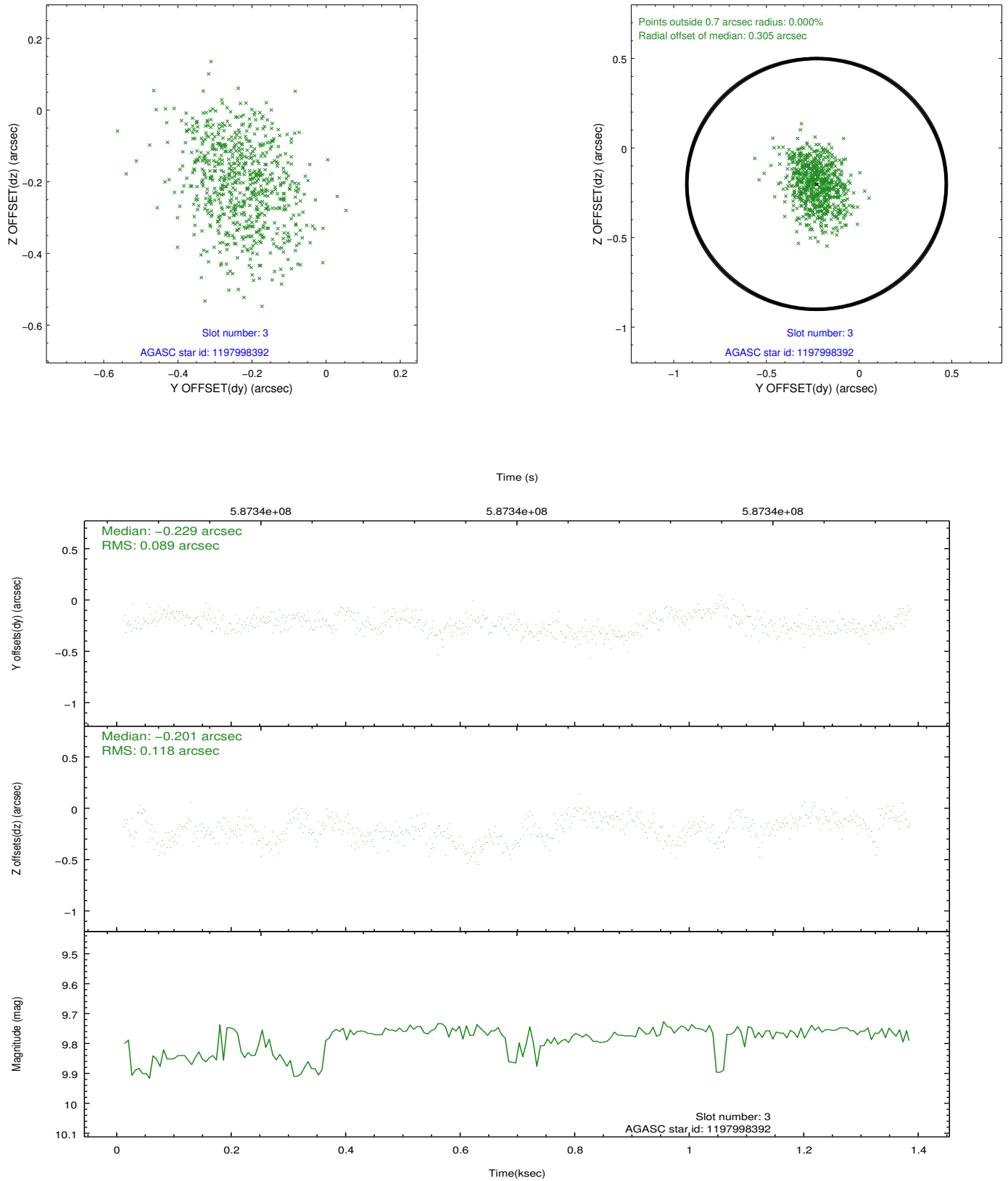
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	335	0.050	0.007	0.005	0.009	0.000000	0.000000	924.26	-842.04
1	FID		ACIS-I-5	7.27	335	-0.335	0.025	0.006	0.011	0.000000	0.000000	-1821.64	1052.90
2	FID		ACIS-I-6	7.27	335	0.193	0.039	0.005	0.010	0.000000	0.000000	384.57	1703.00
3	GUIDE	used	1197998392	9.77	671	-0.229	-0.201	0.156	0.260	6.367452	-72.761261	-163.01	2298.72
4	GUIDE	used	1198003120	9.29	669	0.216	0.304	0.182	0.264	7.373325	-73.781725	-2298.16	-863.54
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	used	1198135560	9.39	671	-0.047	-0.168	0.176	0.268	8.700395	-72.843436	1186.72	193.98
7	GUIDE	used	1198150512	8.37	670	0.076	0.092	0.139	0.202	9.044301	-72.846944	1407.78	-98.53

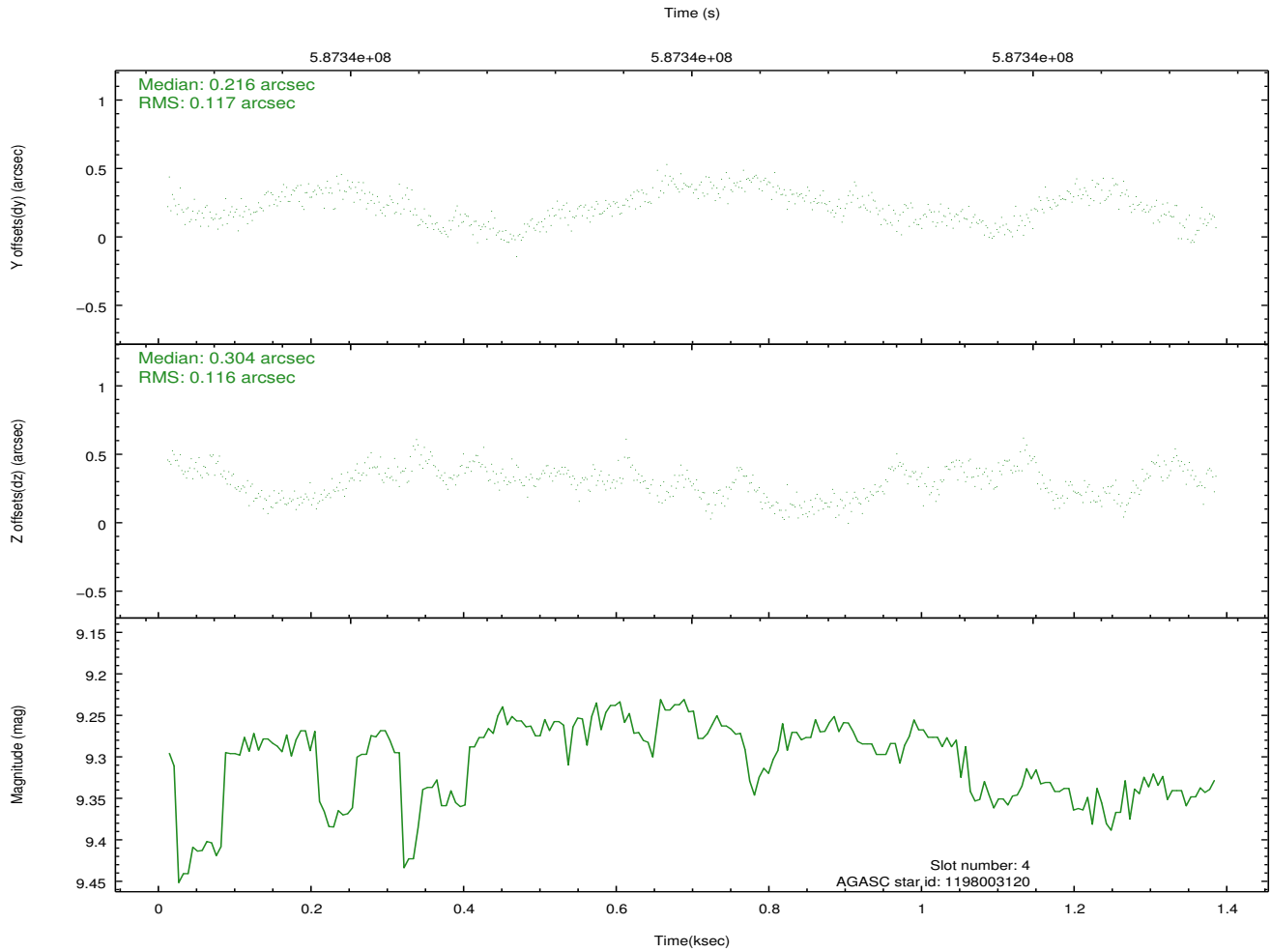
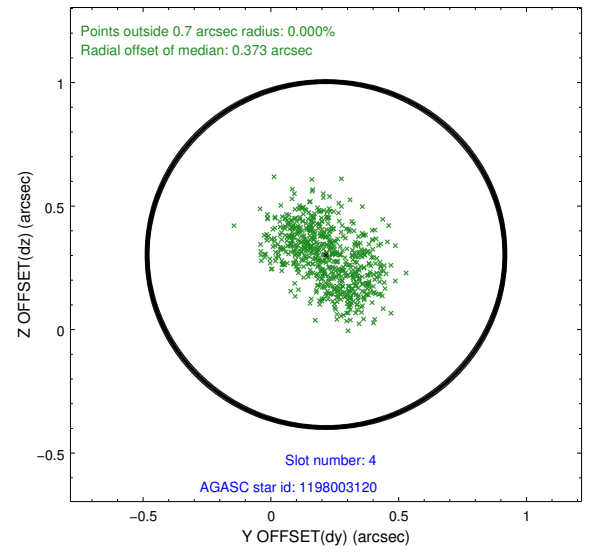
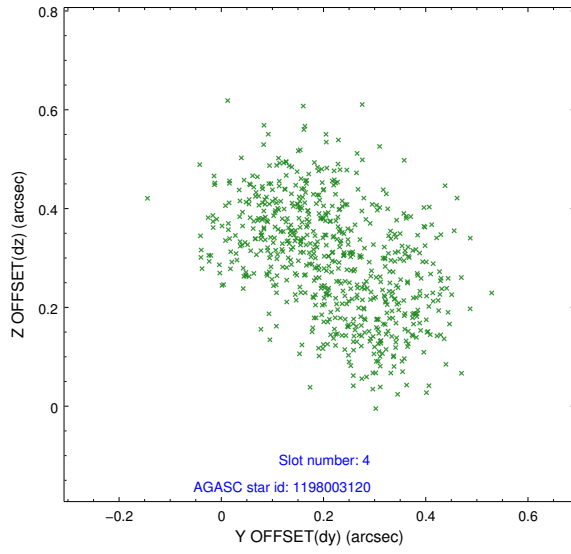


## 2.4 Star Slots

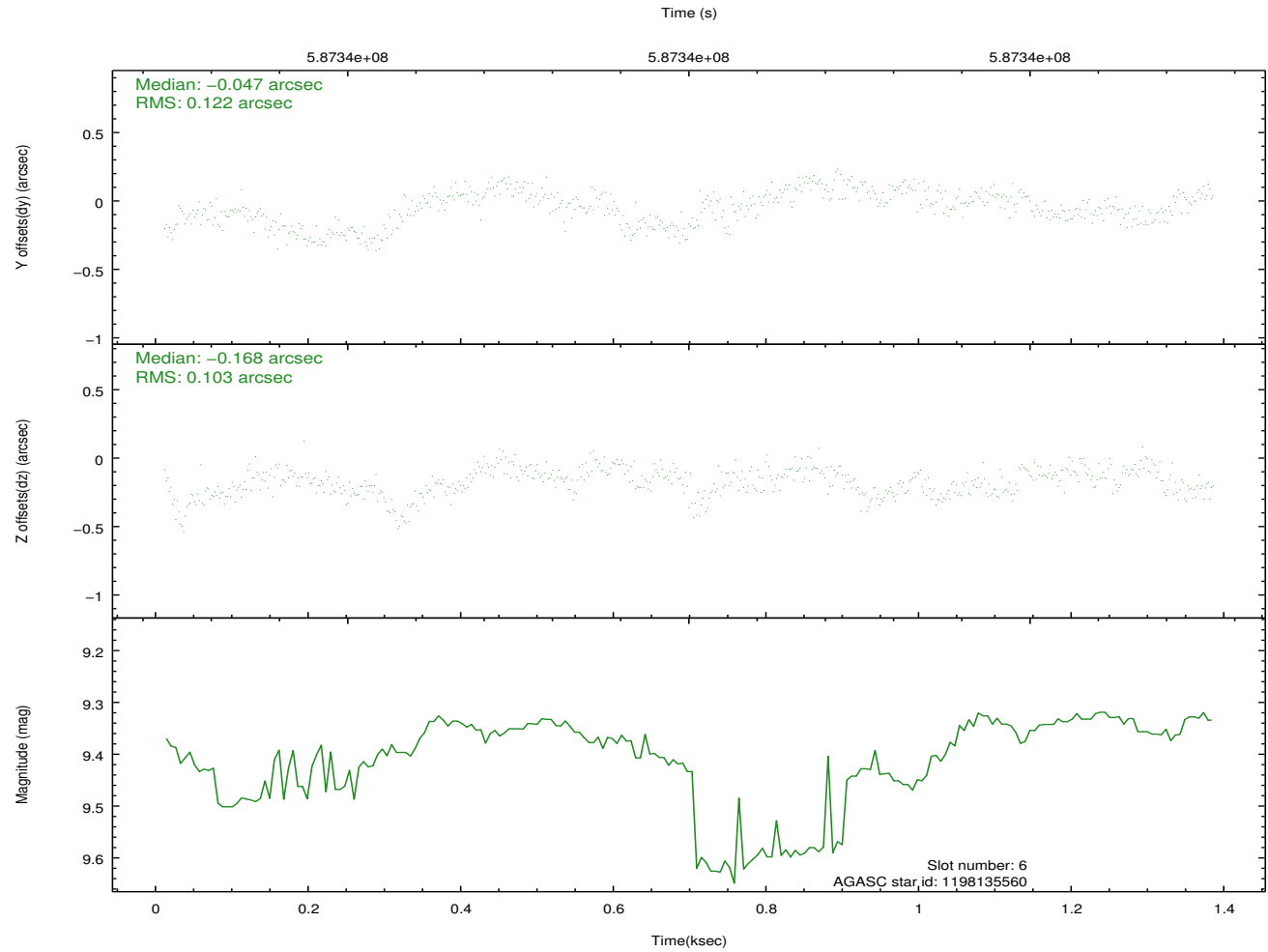
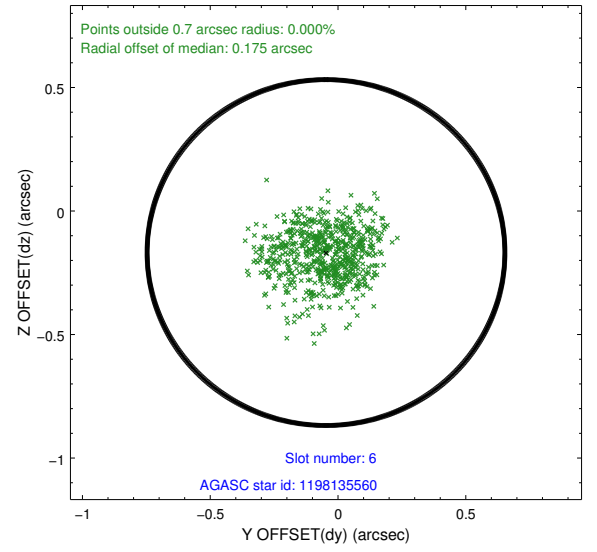
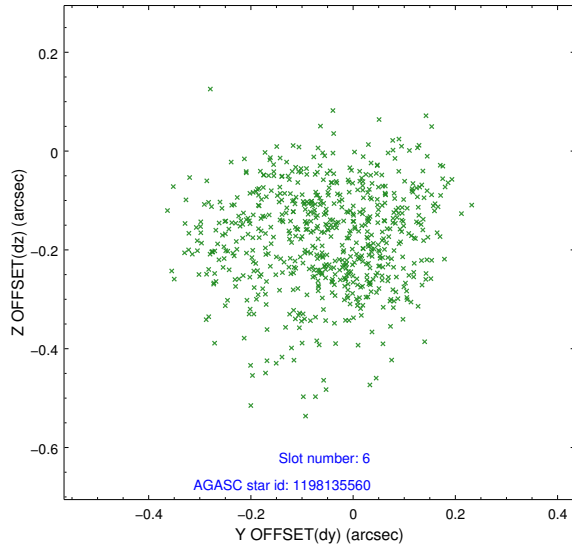
### 2.4.1 Slot 3



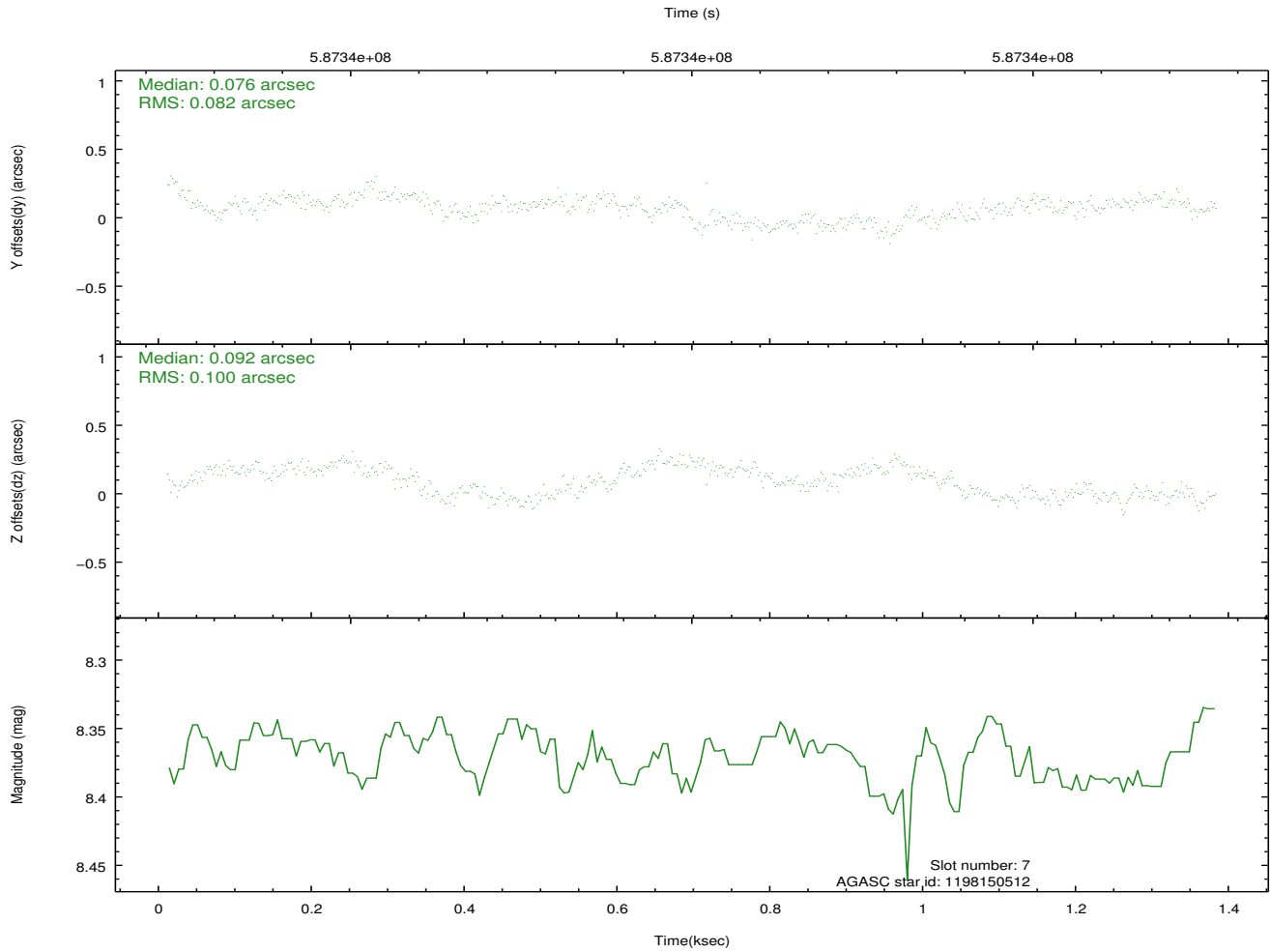
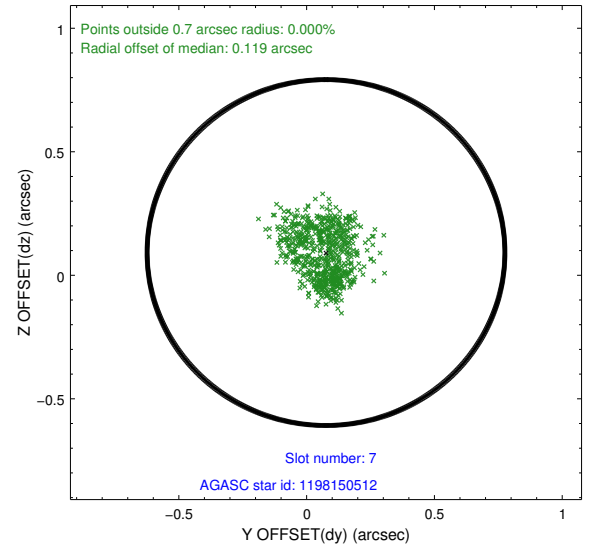
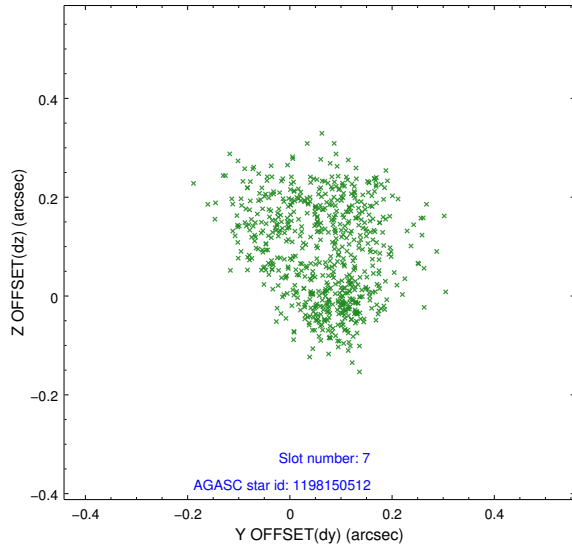
## 2.4.2 Slot 4



### 2.4.3 Slot 6

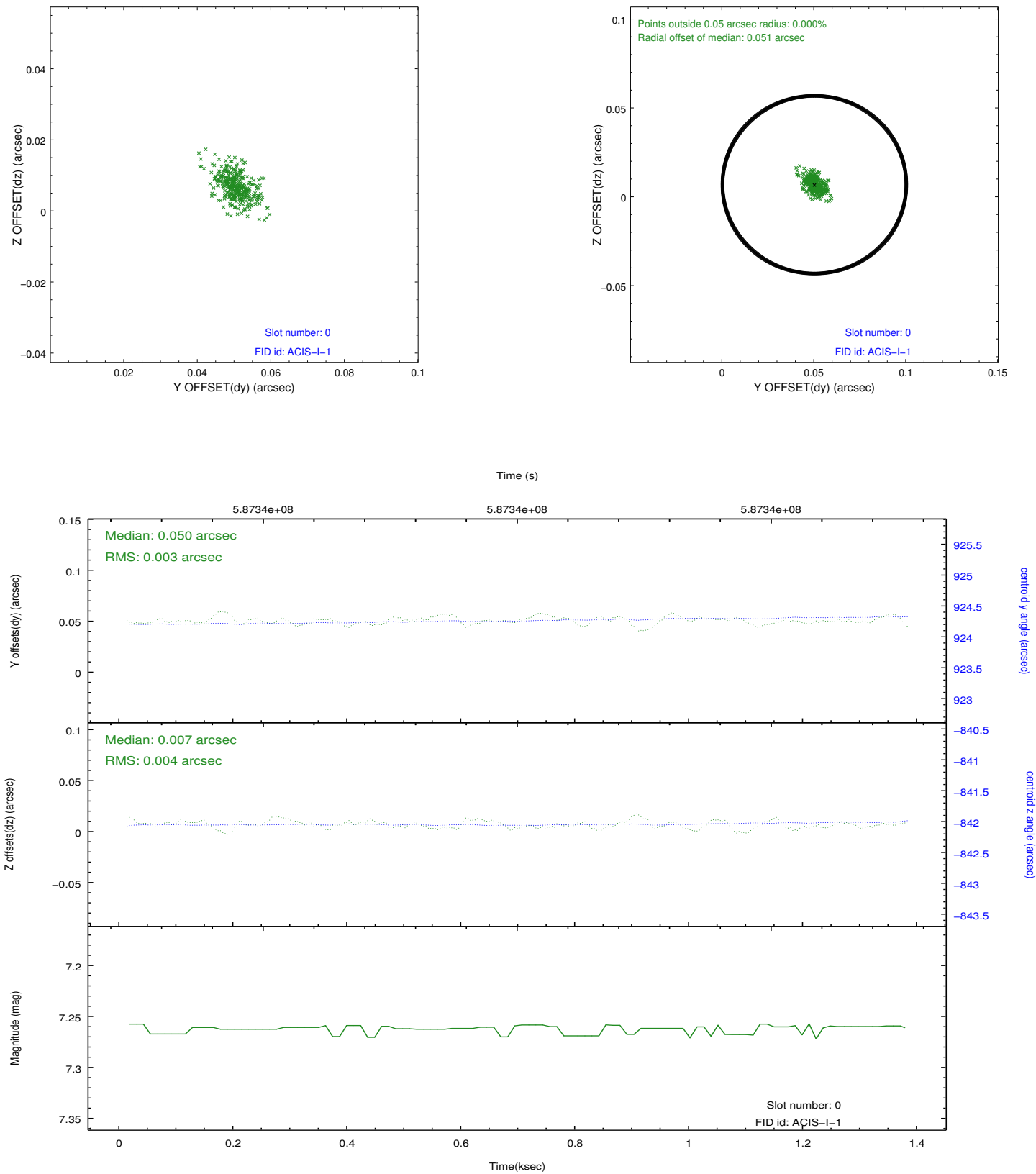


## 2.4.4 Slot 7

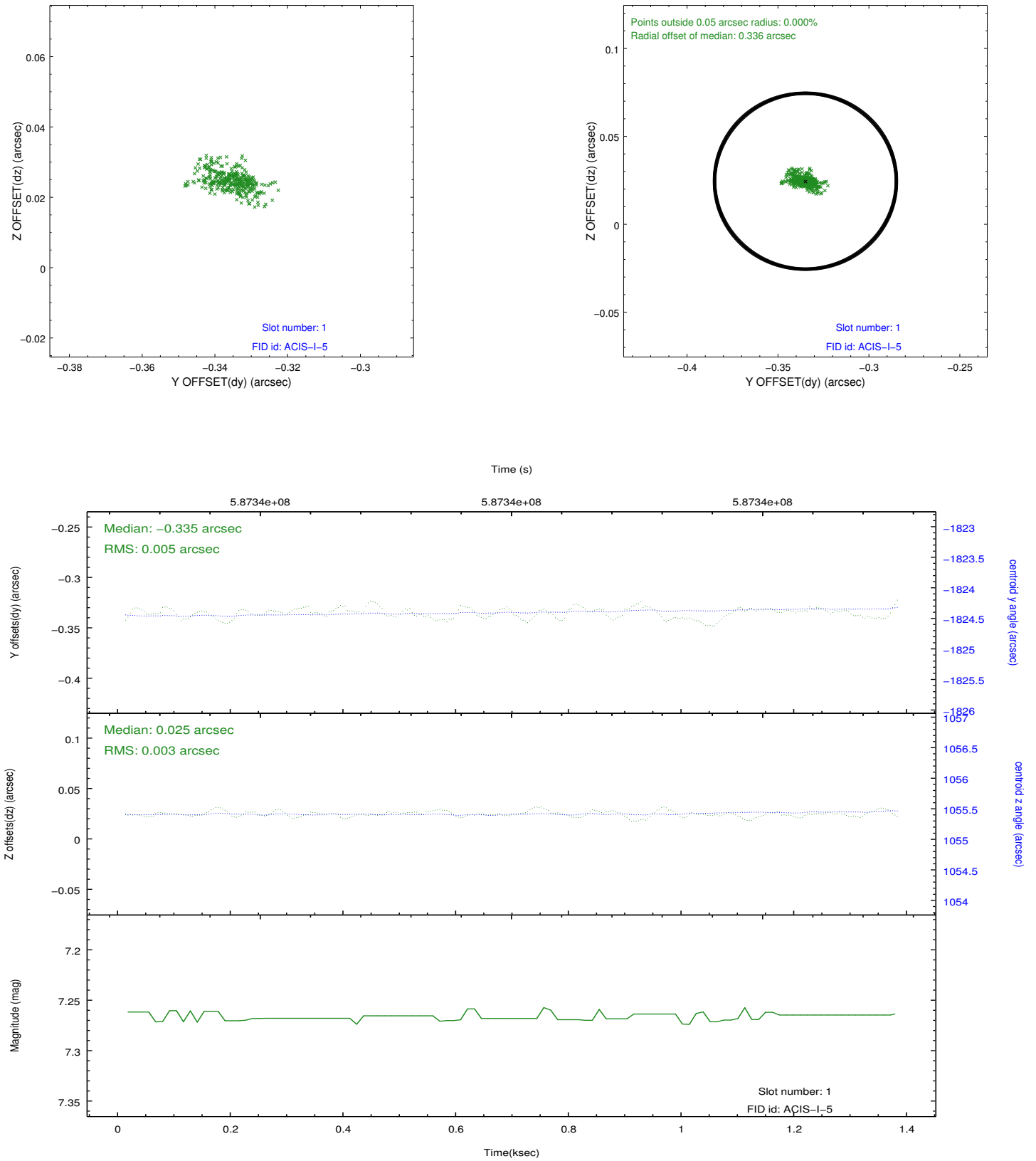


## 2.5 FID Slots

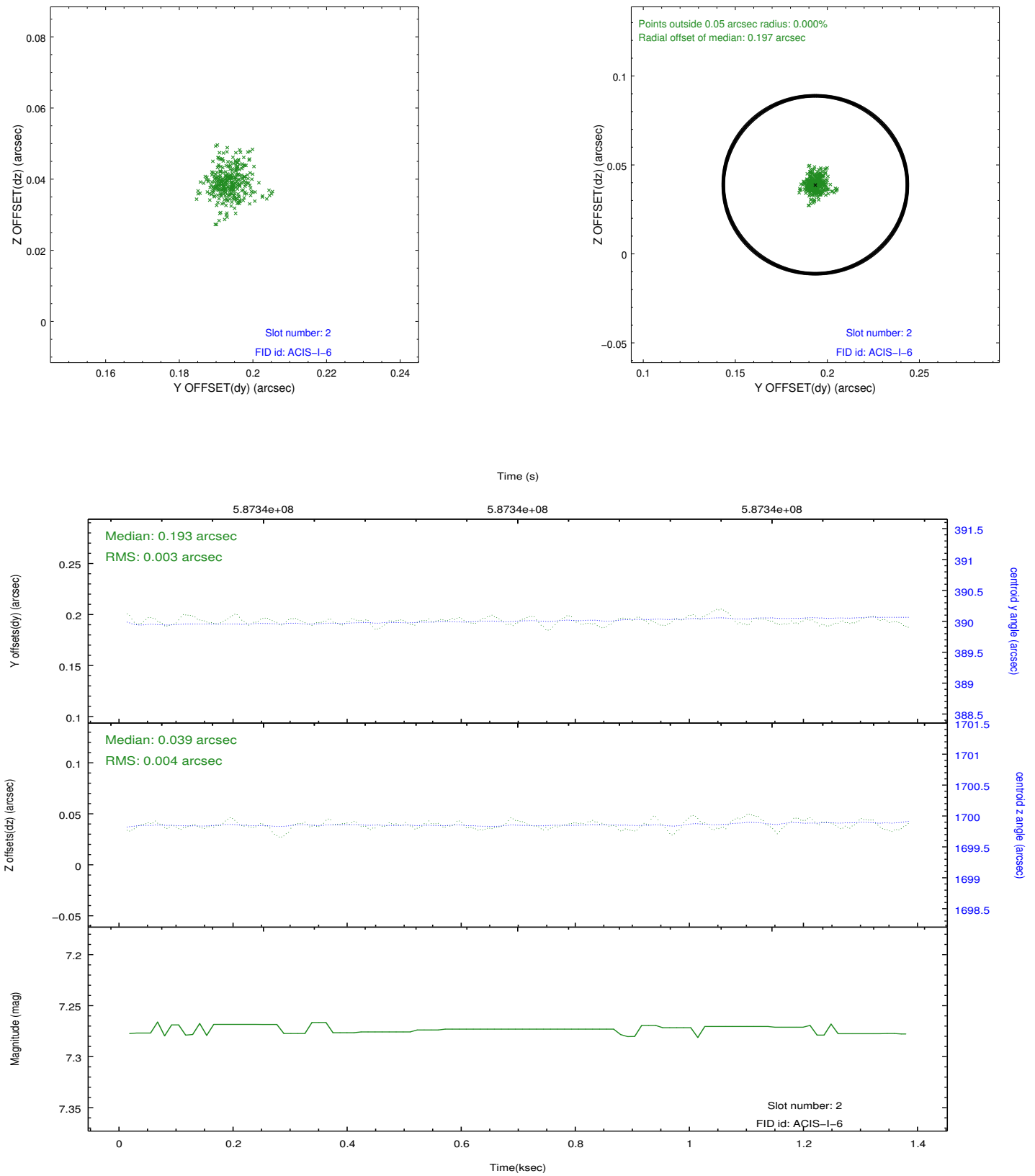
### 2.5.1 Slot 0



## 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)	2016.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.08190000844

### A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.