

# V&V Reference Report

## L2 ASCDS Version : 10.8

Observation 21586 - L2 Version 1  
Chandra X-Ray Center

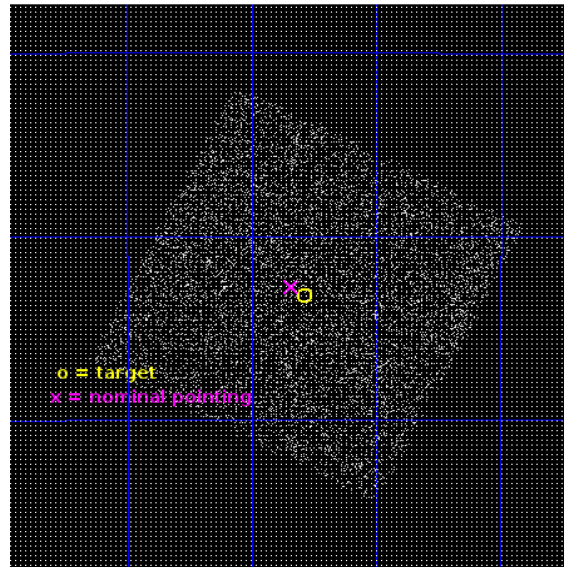
L2 Processing Date : Jul 2 2019

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# 1 Front

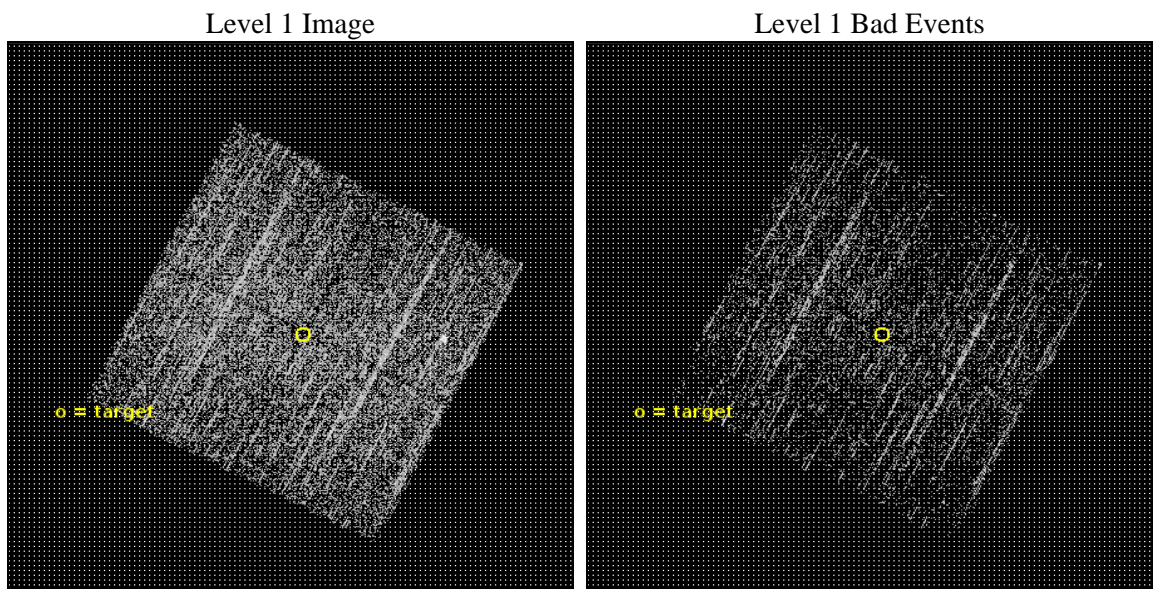
seq_num	300418	Sequence number
obs_id	21586	Observation id
title	Chandra Mapping of the Galactic Central Region	Proposal title
observer	Daniel Wang	Principal investigator
object	GCR Gap 1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.94634	Observer's specified target RA [deg]
dec_targ	-29.720231	Observer's specified target Dec [deg]
ra_nom	266.9600463643	Nominal RA [deg]
dec_nom	-29.712264487712	Nominal Dec [deg]
roll_nom	297.21550045116	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1908.4898097515	Sum of GTIs [s]
livetime	1883.5539853773	Livetime [s]
ontime0	1908.4487698078	Sum of GTIs [s]
ontime1	1908.4898097515	Sum of GTIs [s]
ontime2	1908.5308498144	Sum of GTIs [s]
ontime3	1908.5718897581	Sum of GTIs [s]
l2events	6437	Number of level 2 events



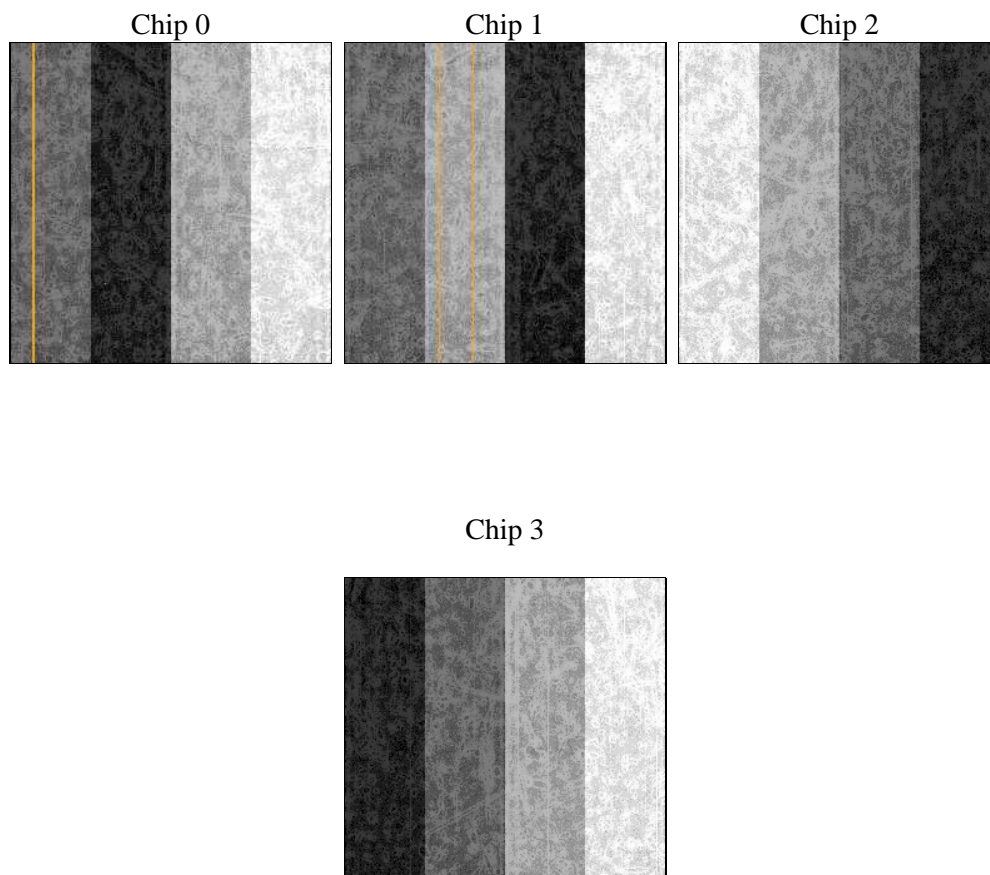
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	1908.4898097515	Sum of GTIs [s]
caldbver	4.8.3	&#160	ontime0	1908.4487698078	Sum of GTIs [s]
date	2019-07-02T14:02:35	Date and time of file creation	ontime1	1908.4898097515	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1908.5308498144	Sum of GTIs [s]
			ontime3	1908.5718897581	Sum of GTIs [s]
			l1events	55659	Number of level 1 events

### 2.1.4 Events

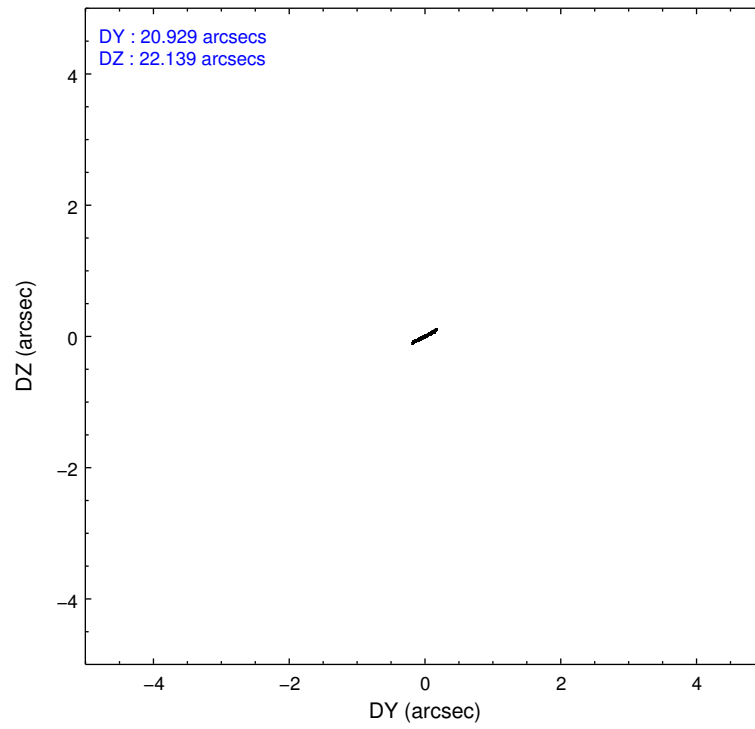
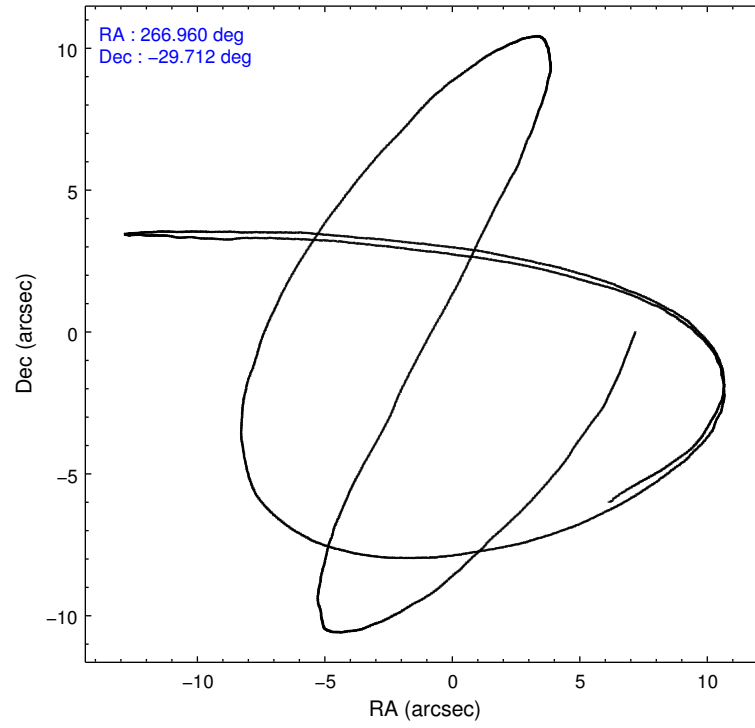
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	13740	13708	14055	14156
rejected events	11869	11219	12224	12379
rejected %	86%	81%	86%	87%

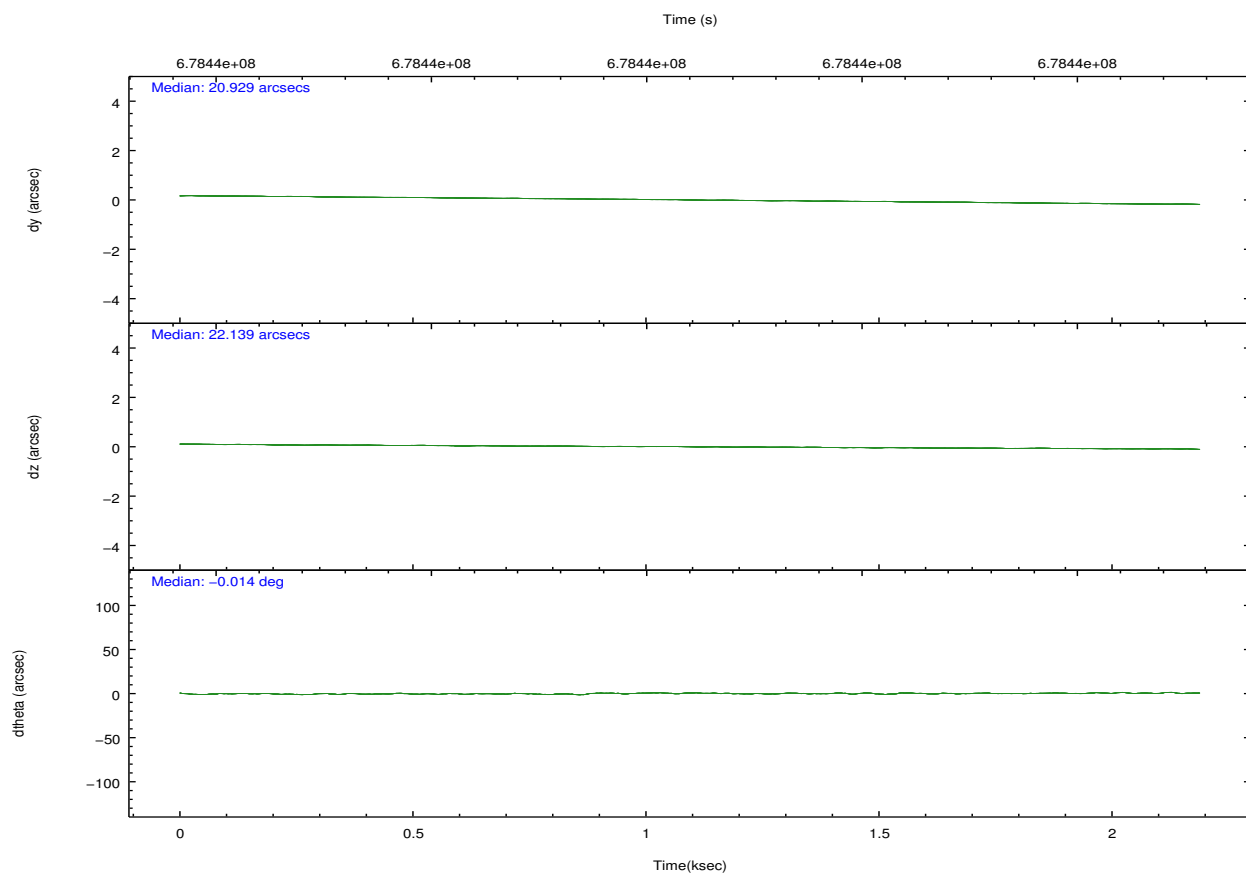
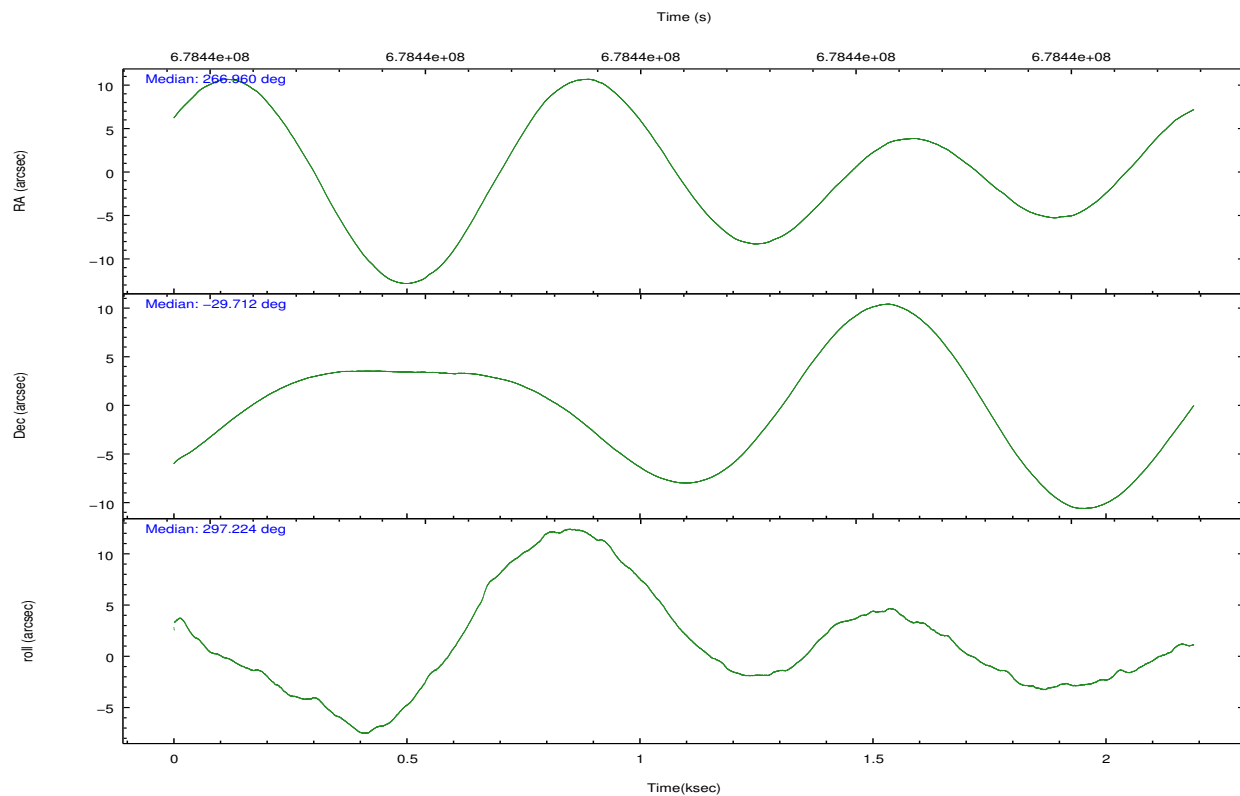
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	738	1176	709	726
	5%	8%	5%	5%
grade 1 events	7	13	5	10
	0%	0%	0%	0%
grade 2 events	419	527	433	361
	3%	3%	3%	2%
grade 3 events	184	160	152	147
	1%	1%	1%	1%
grade 4 events	166	183	172	182
	1%	1%	1%	1%
grade 5 events	608	670	589	706
	4%	4%	4%	4%
grade 6 events	365	445	367	363
	2%	3%	2%	2%
grade 7 events	11253	10534	11628	11661
	81%	76%	82%	82%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	266.933118	266.9600463643018	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.697304	-29.71226448771195	Alternating exposures requested	N	N
[deg] Pointing Roll	296.993448	297.2155004511566	[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)	678436697.184000	678436321.27965			
Observation start date	2019-07-02T06:37:08	2019-07-02T06:32:01			
[s] Observation end time (MET)	678438697.184000	678438830.9923			
Observation end date	2019-07-02T07:10:28	2019-07-02T07:13:50			
Read mode	TIMED	TIMED			

## 2.3 Aspect





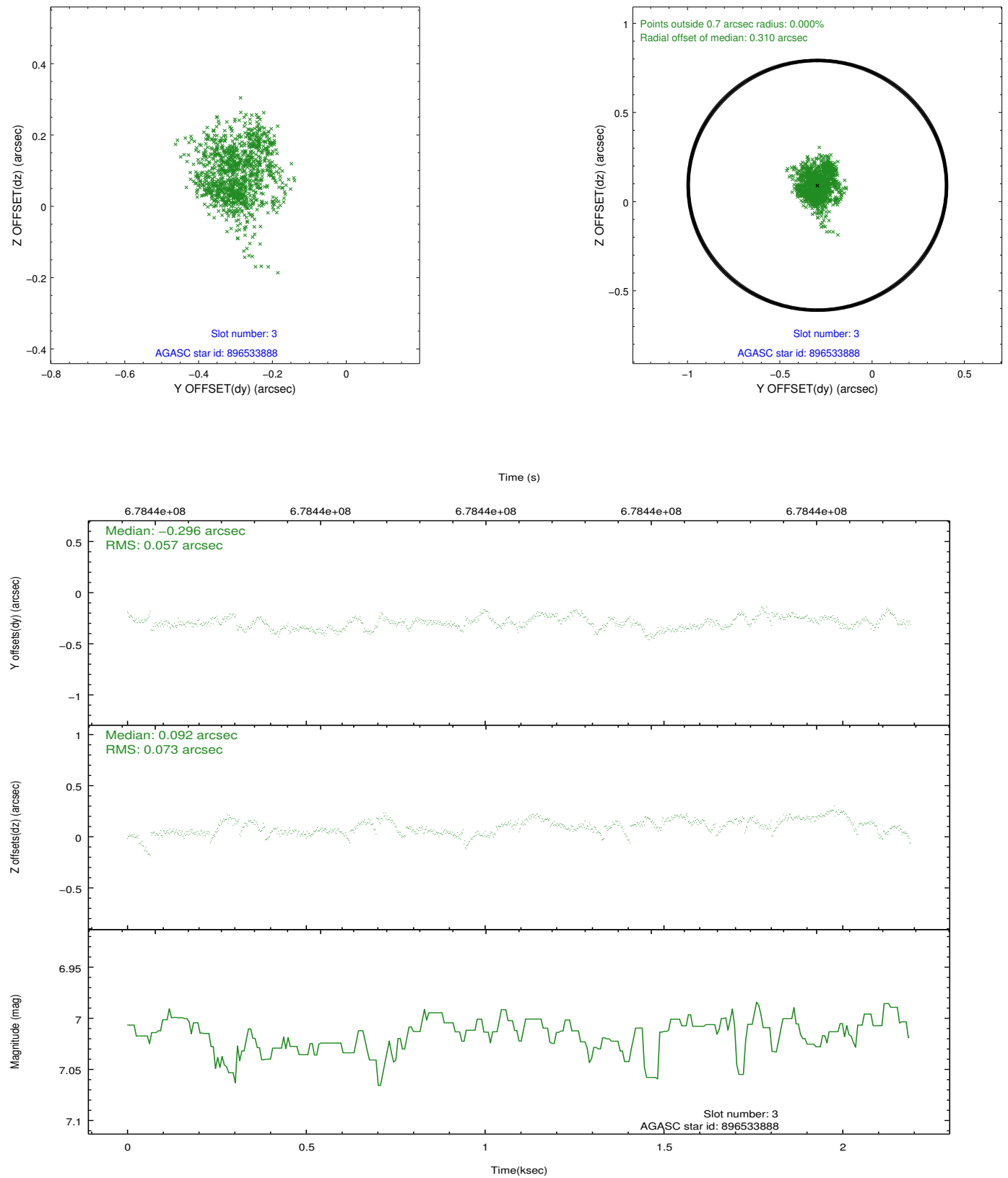
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.18	534	1.000	0.274	-0.252	0.007	0.012	0.000000	0.000000	918.83	-845
1	FID		ACIS-I-3	7.46	534	1.000	-0.082	0.178	0.007	0.012	0.000000	0.000000	37.63	-980
2	FID		ACIS-I-5	7.15	534	1.000	-0.283	0.147	0.006	0.011	0.000000	0.000000	-1830.26	1049
3	GUIDE	used	896533888	7.01	1069	1.000	-0.296	0.092	0.099	0.152	266.666434	-29.392757	-1355.54	-247
4	GUIDE	used	896537776	7.55	1069	1.000	0.090	-0.088	0.151	0.228	266.655684	-29.665673	-495.37	-721
5	GUIDE	used	896541168	8.14	1069	1.000	0.359	0.102	0.167	0.249	266.319970	-29.850801	-371.99	-1959
6	GUIDE	used	896541360	7.72	1067	1.000	-0.007	0.090	0.120	0.192	266.684478	-29.453744	-1134.41	-298
7	GUIDE	used	966926496	8.12	1067	1.000	-0.148	-0.187	0.090	0.151	267.109389	-30.299474	2179.65	-496

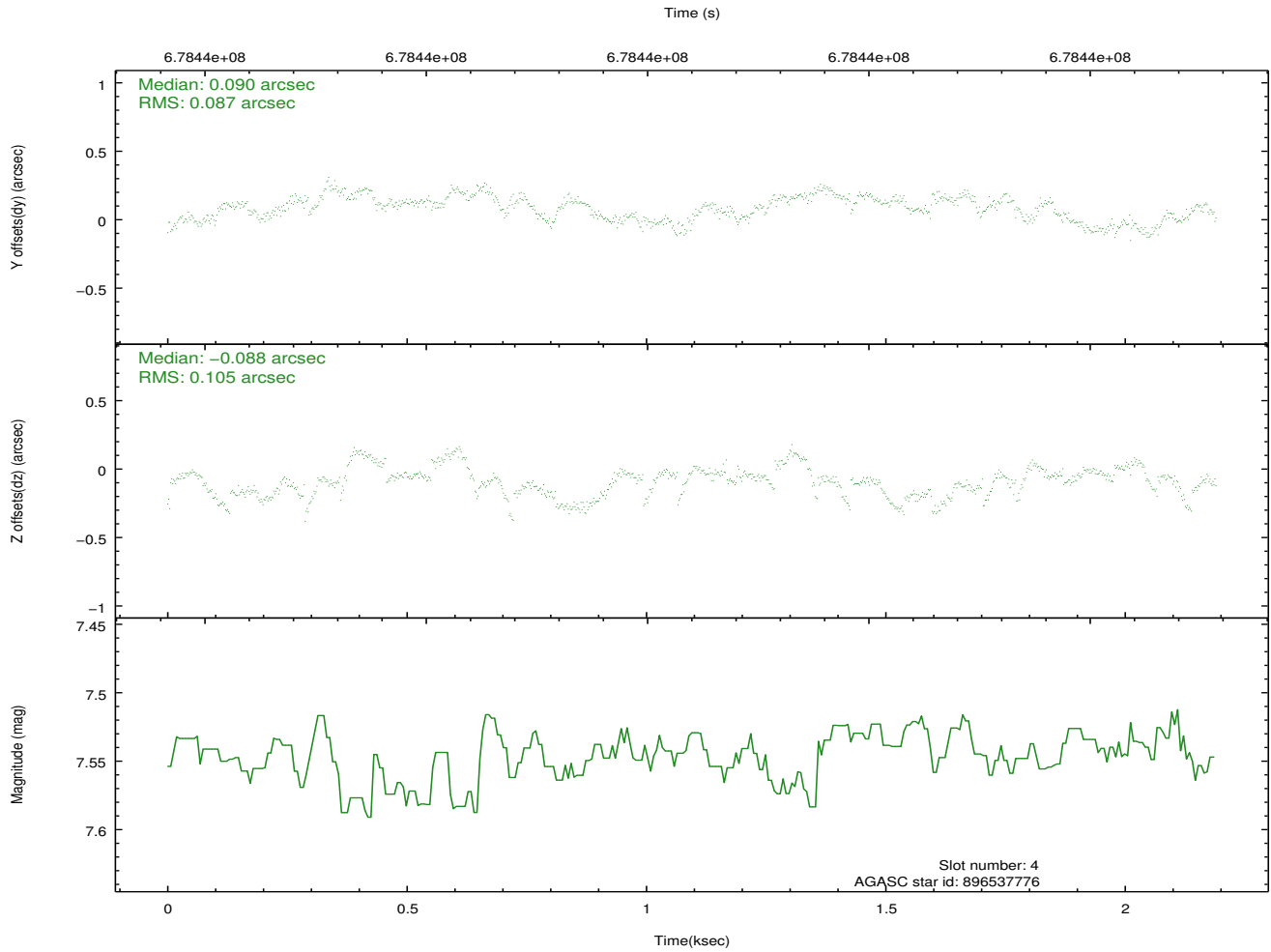
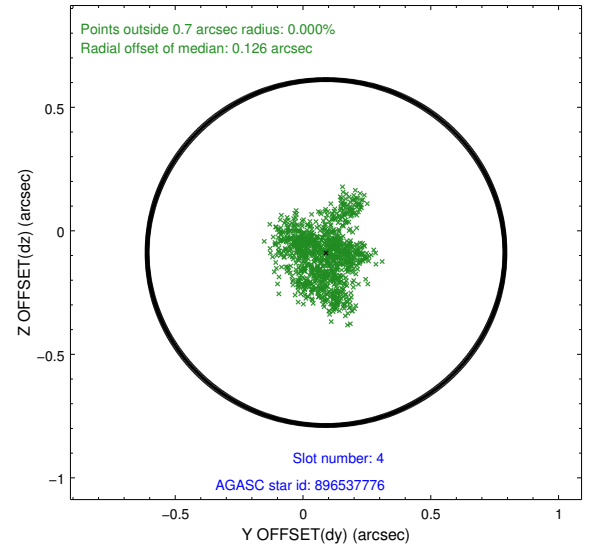
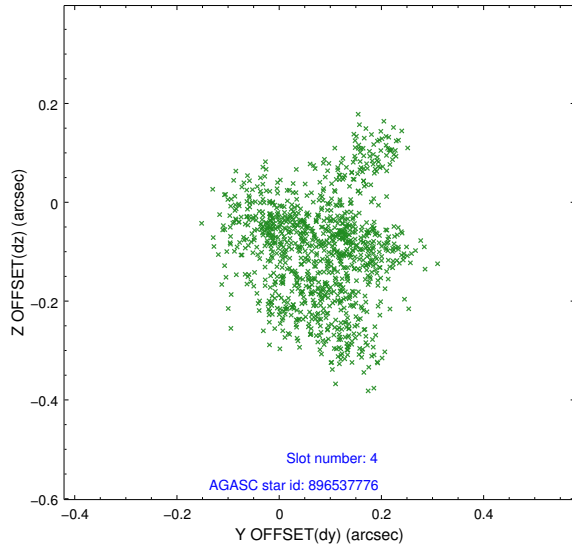


## 2.4 Star Slots

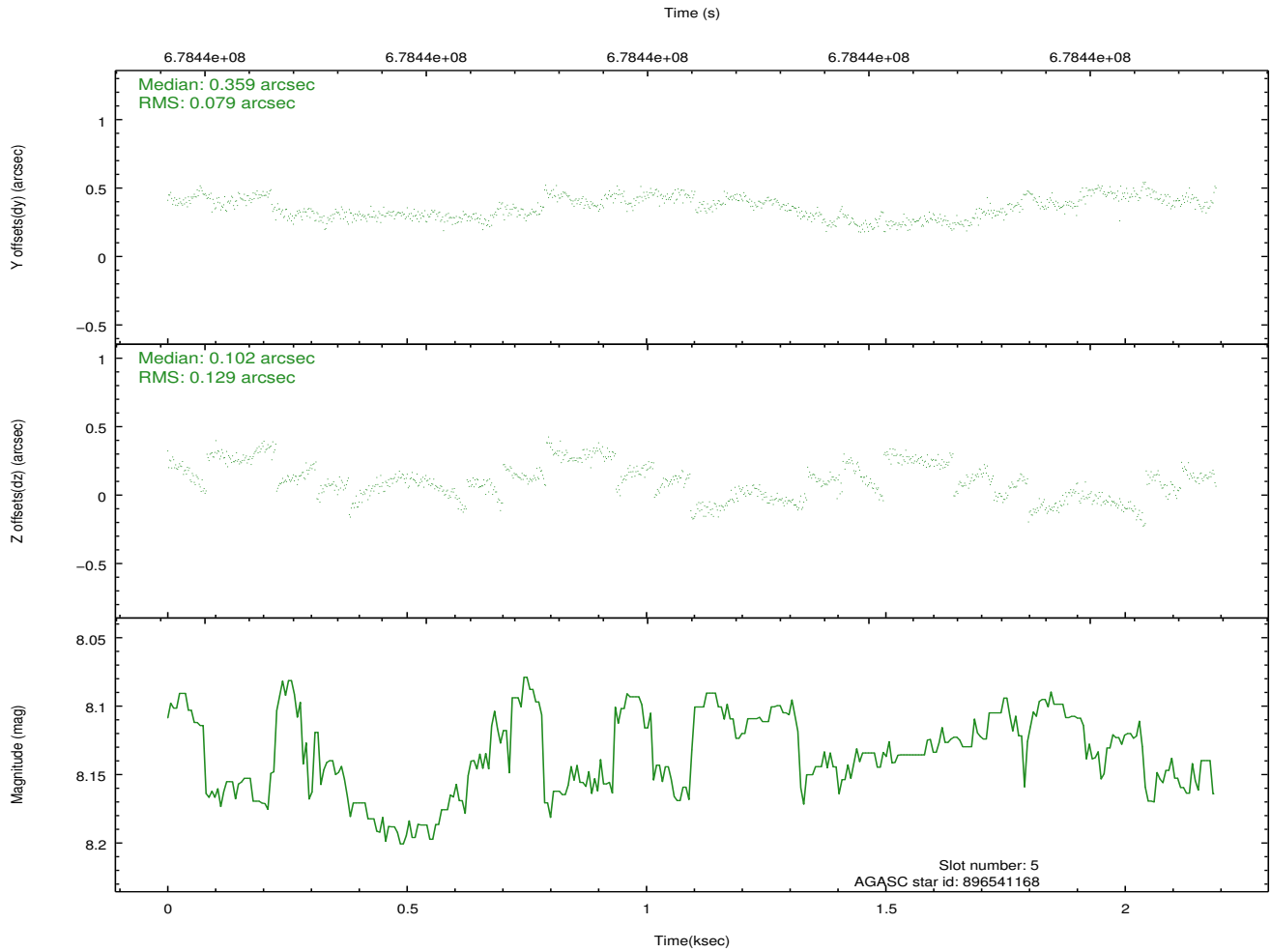
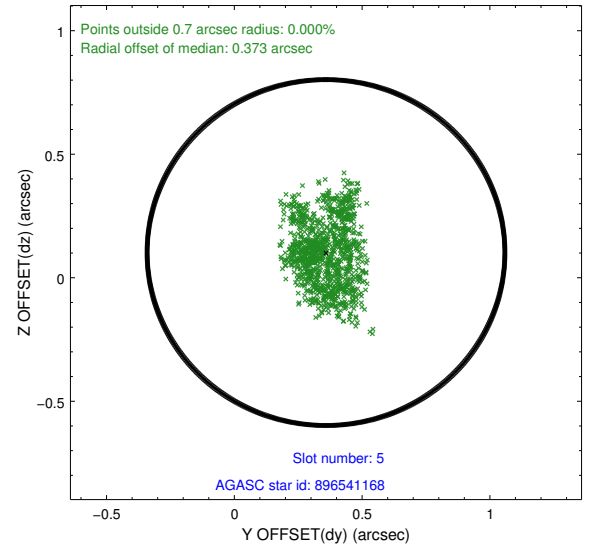
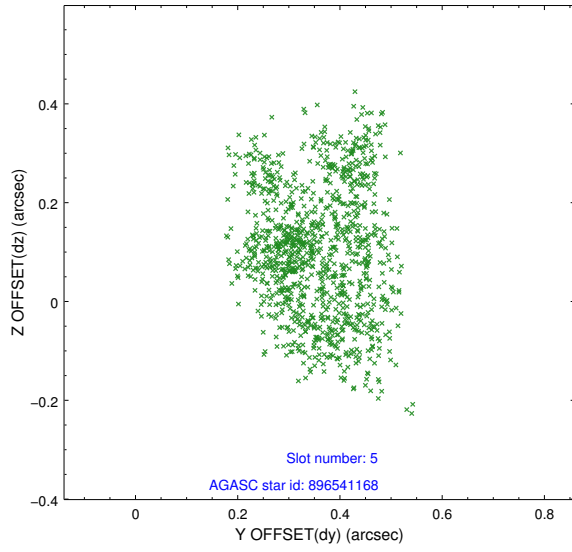
### 2.4.1 Slot 3



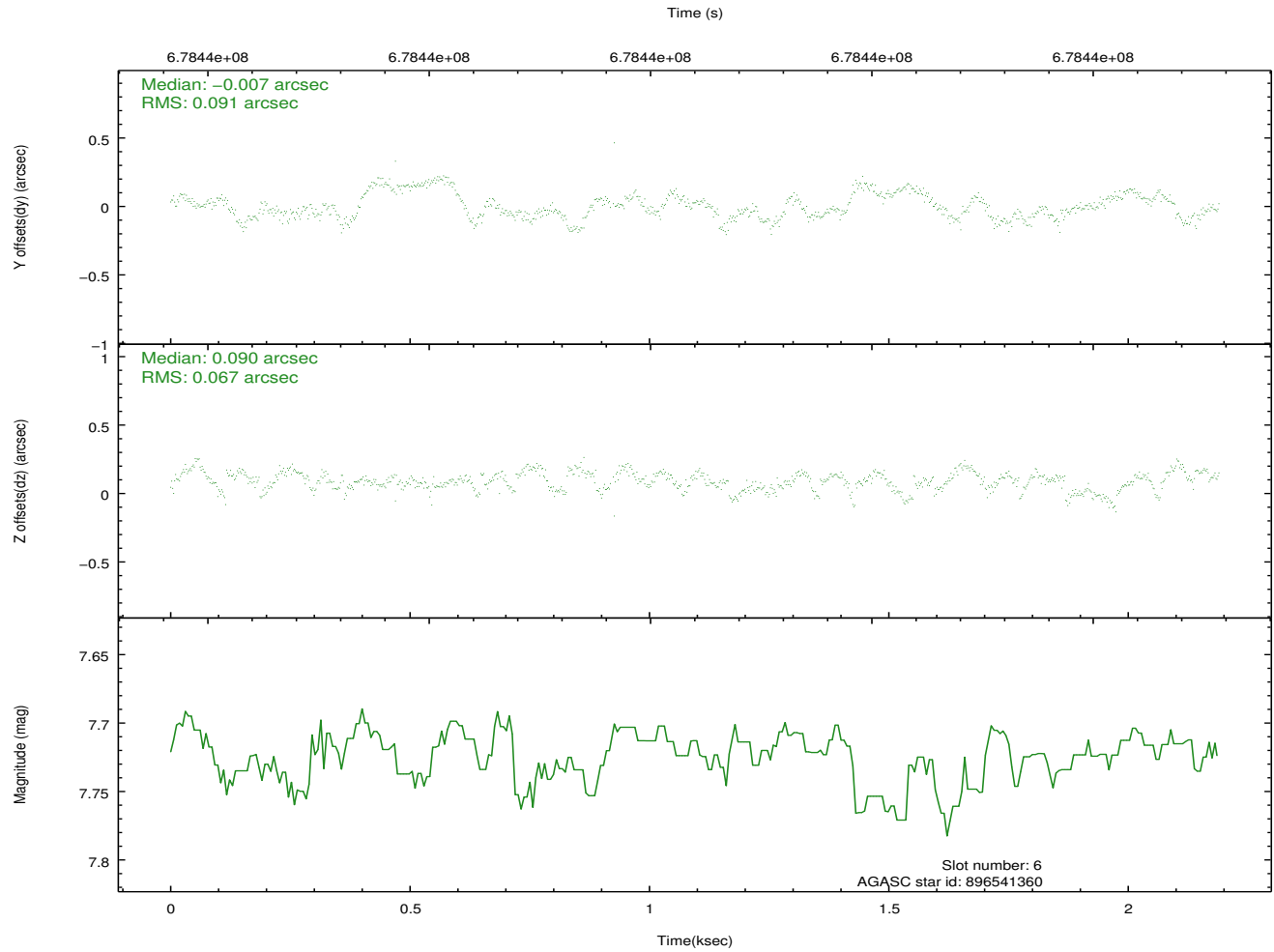
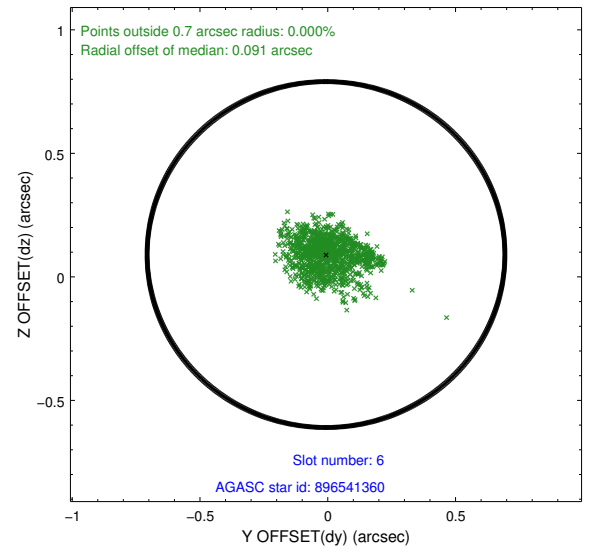
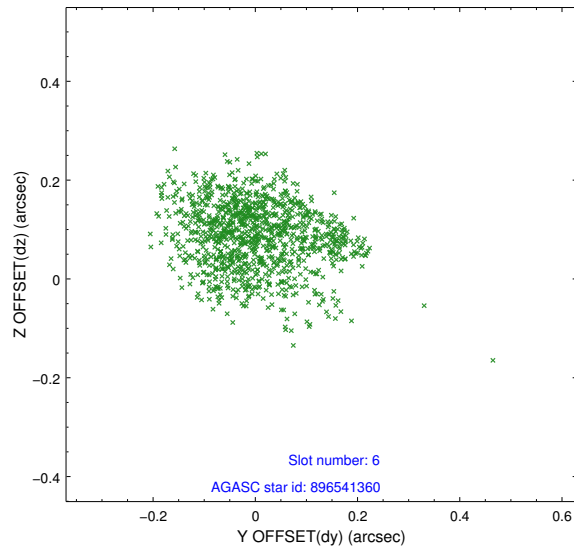
## 2.4.2 Slot 4



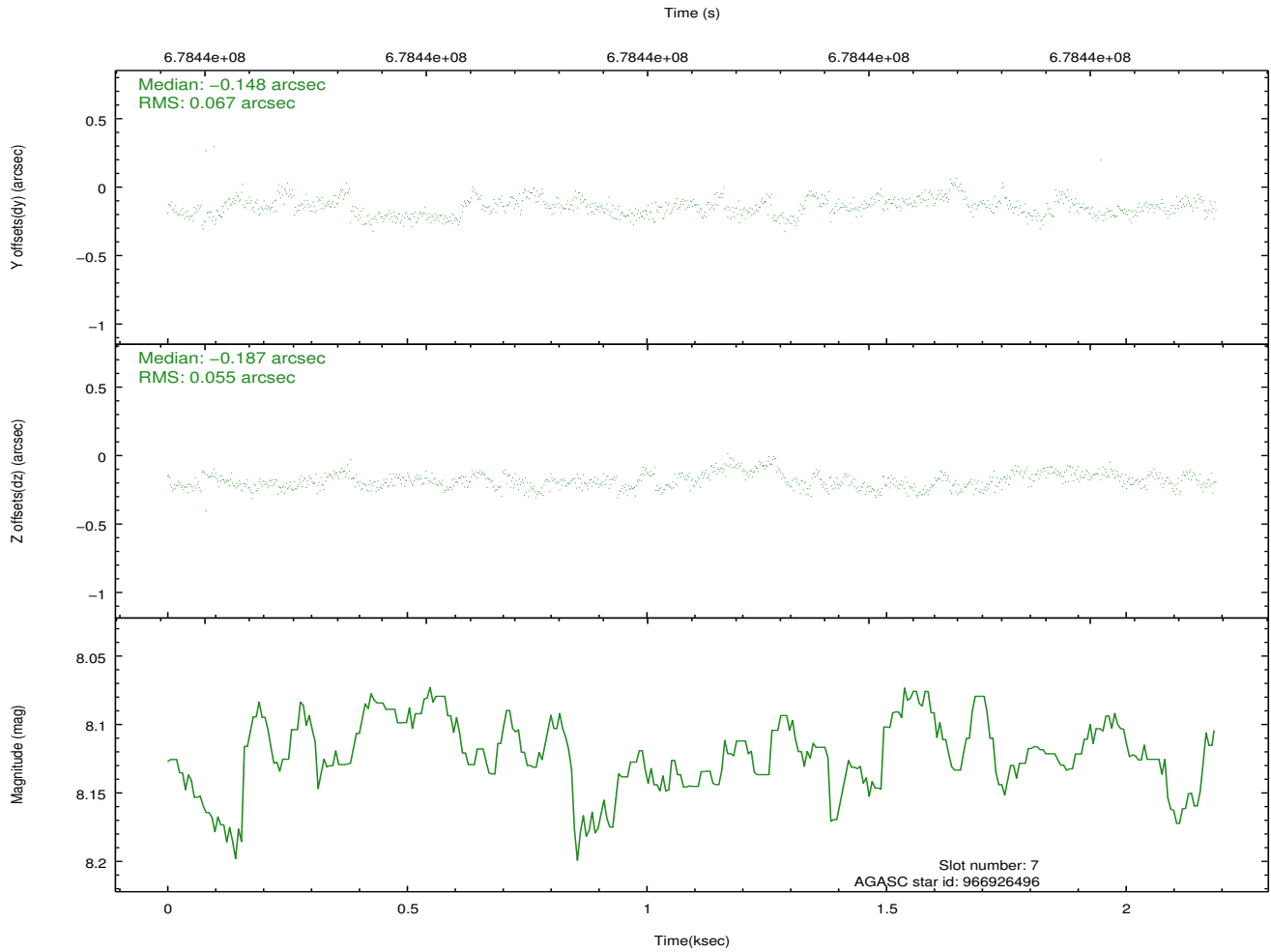
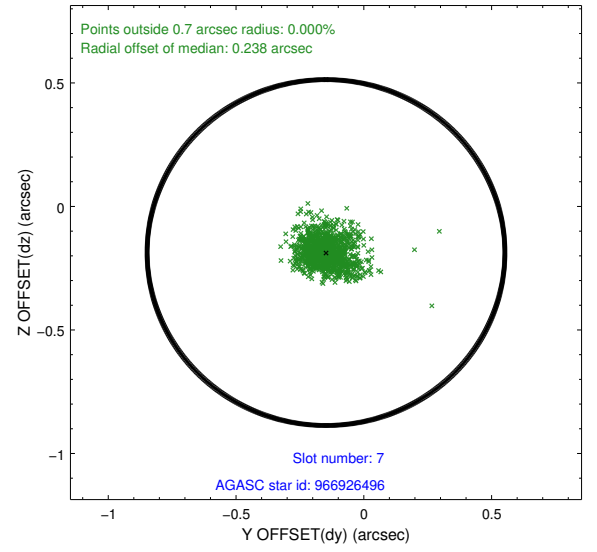
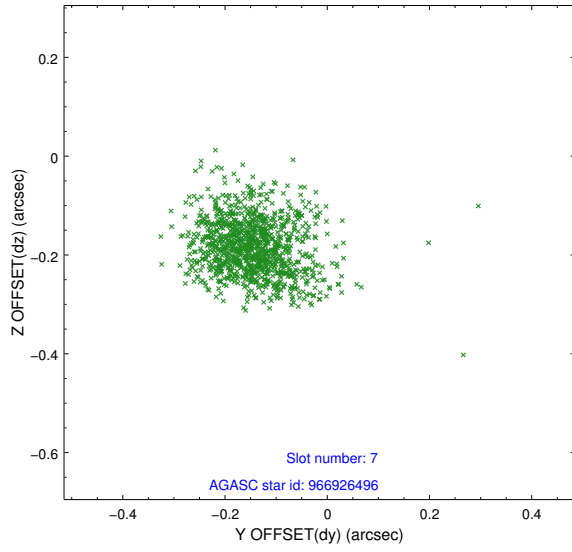
### 2.4.3 Slot 5



## 2.4.4 Slot 6

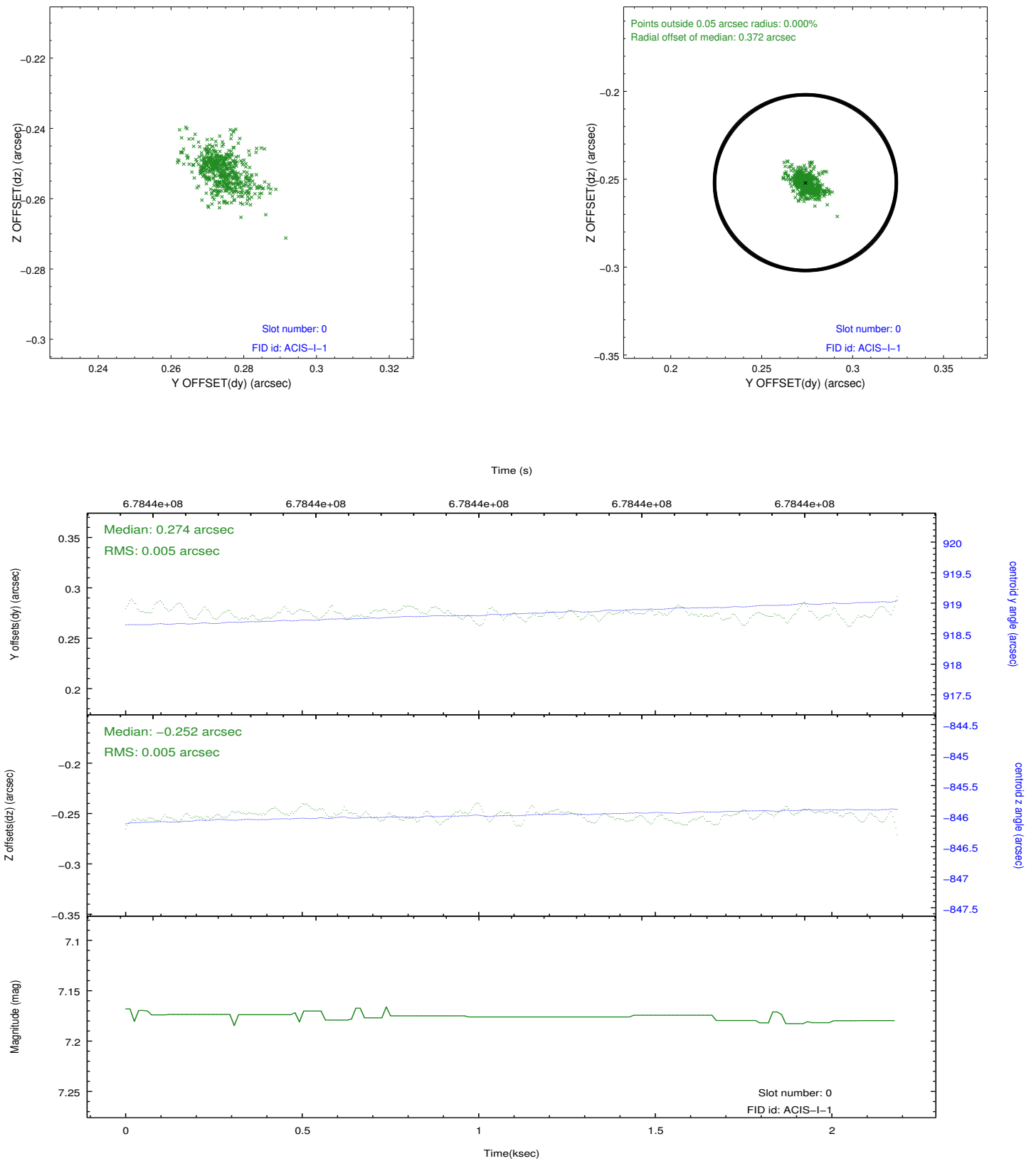


## 2.4.5 Slot 7

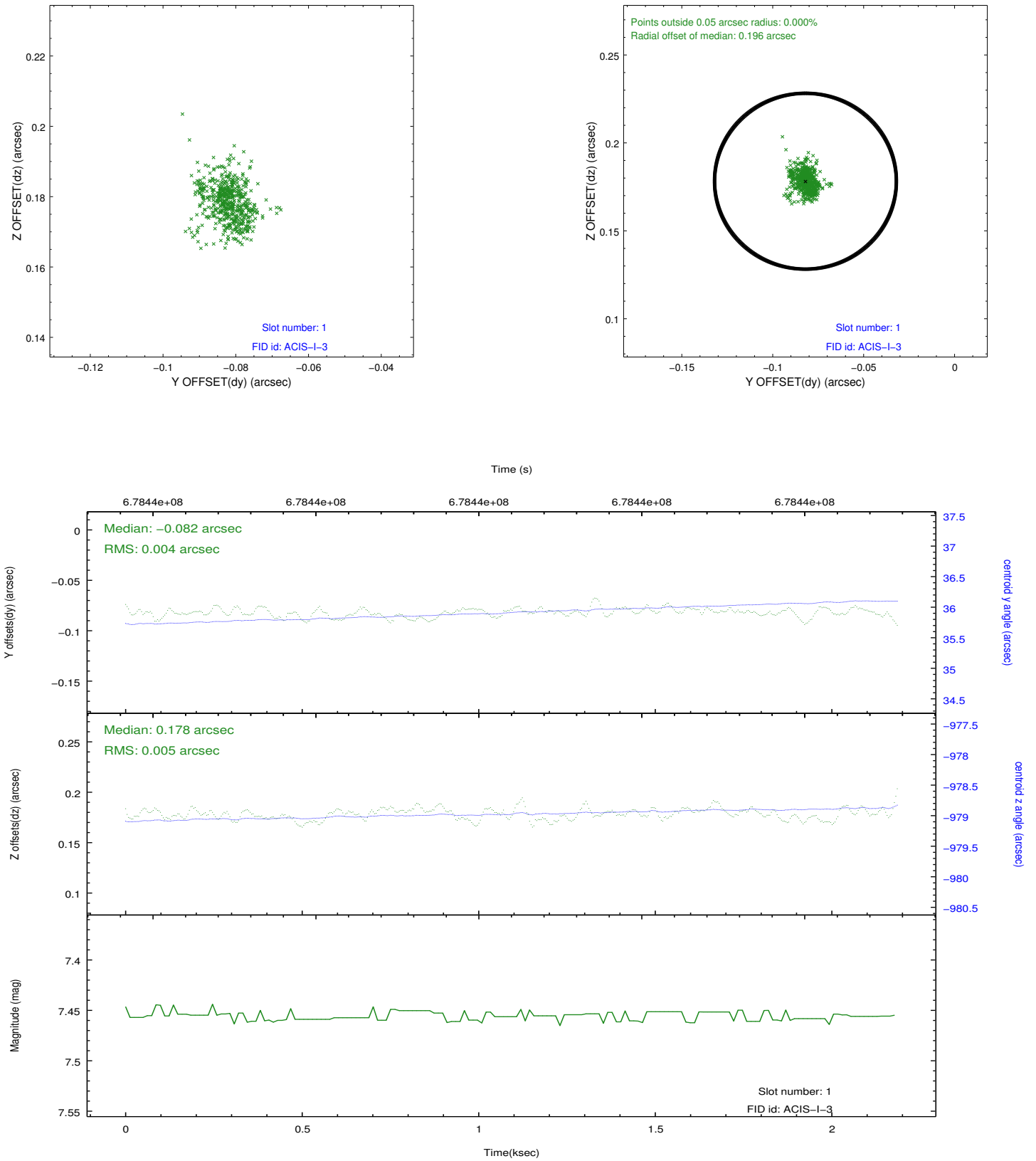


## 2.5 FID Slots

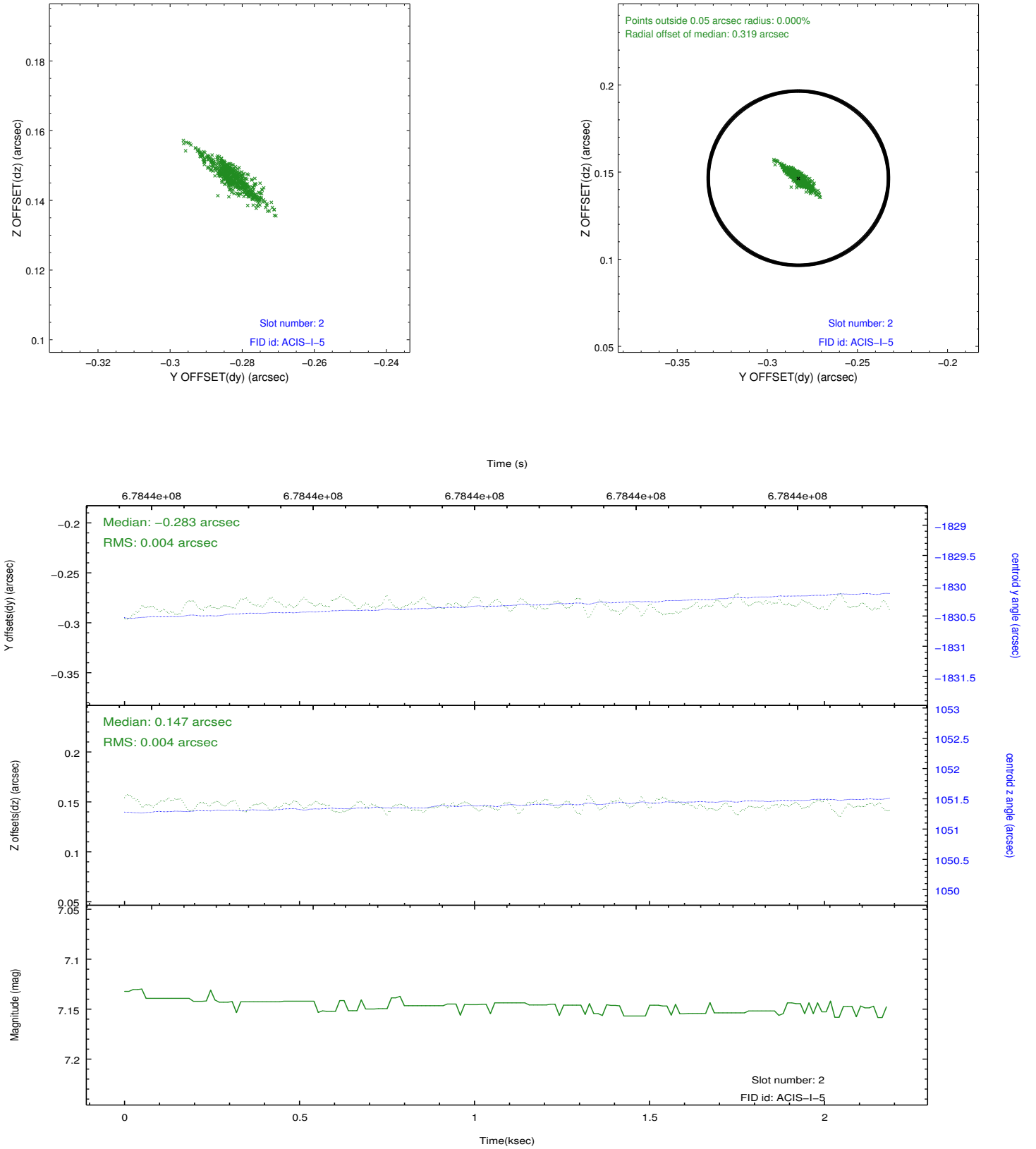
### 2.5.1 Slot 0



## 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)	2019.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9084898097515

### A.2 Comments