

# V&V Reference Report

## L2 ASCDS Version : 10.8

Observation 22848 - L2 Version 1  
Chandra X-Ray Center

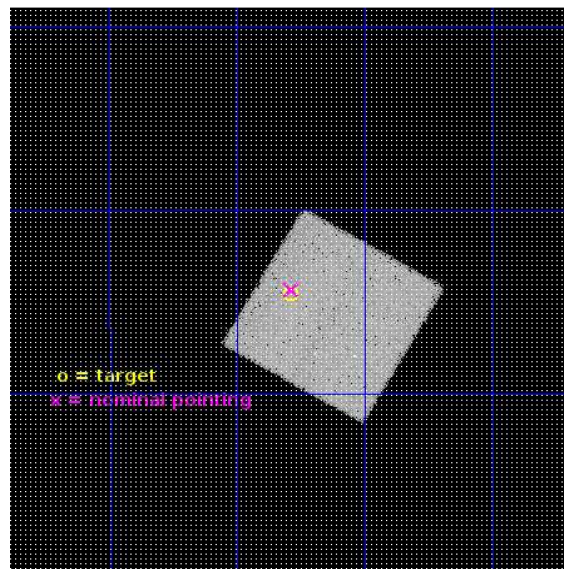
L2 Processing Date : Sep 23 2019

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# 1 Front

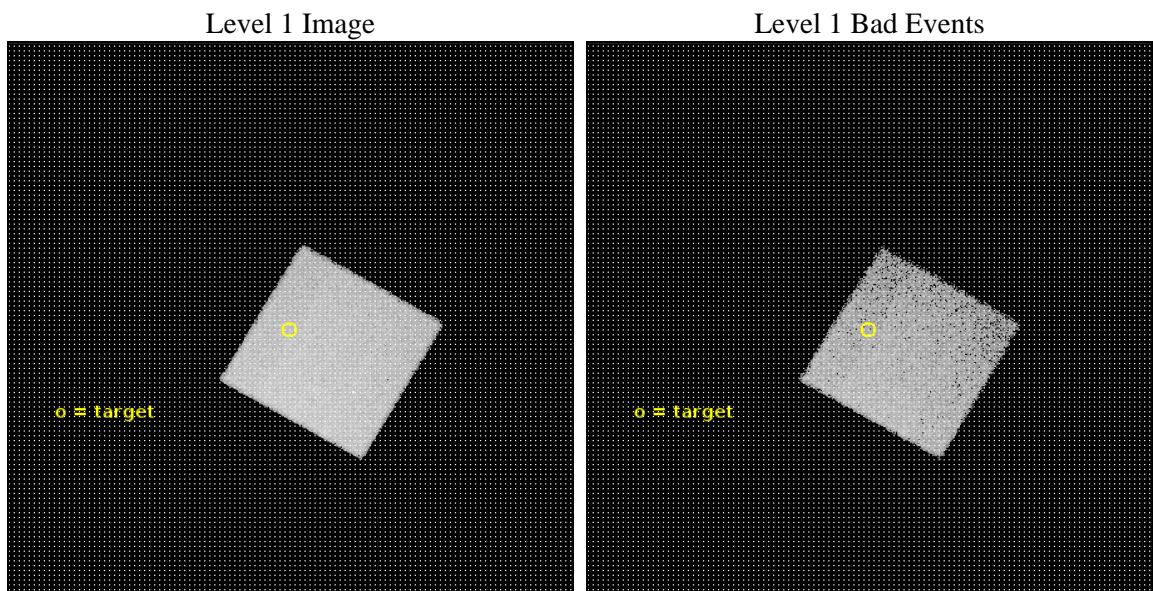
seq_num	503196	Sequence number
obs_id	22848	Observation id
title	Chasing high energy emission from neutron star black holes merger	&#160
observer	Amruta Jaodand	Principal investigator
object	AT2019osy	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	13.9475	Observer's specified target RA [deg]
dec_targ	-27.075833	Observer's specified target Dec [deg]
ra_nom	13.946946208225	Nominal RA [deg]
dec_nom	-27.072260447069	Nominal Dec [deg]
roll_nom	30.118922932136	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20090.037344813	Sum of GTIs [s]
livetime	19818.914593179	Livetime [s]
ontime7	20090.037344813	Sum of GTIs [s]
l2events	83716	Number of level 2 events



## 2 OBI

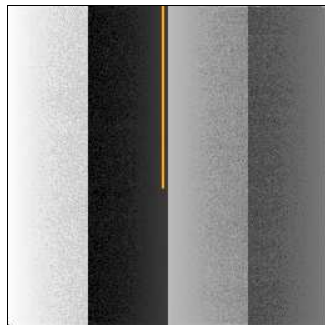
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	20090.037344813	Sum of GTIs [s]
caldsver	4.8.4.1	&#160	ontime7	20090.037344813	Sum of GTIs [s]
date	2019-09-23T13:36:52	Date and time of file creation	l1events	199036	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	199036
rejected events	112986
rejected %	56%

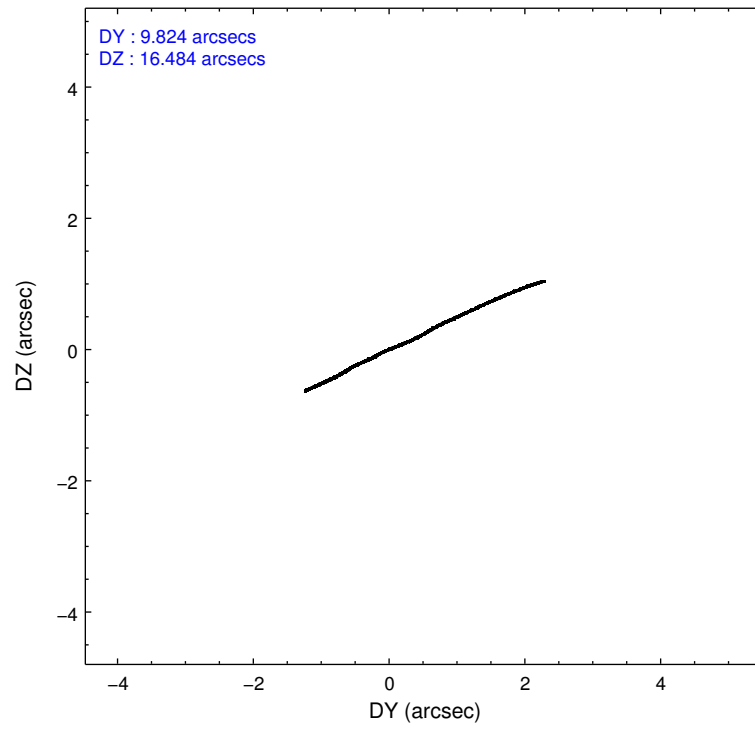
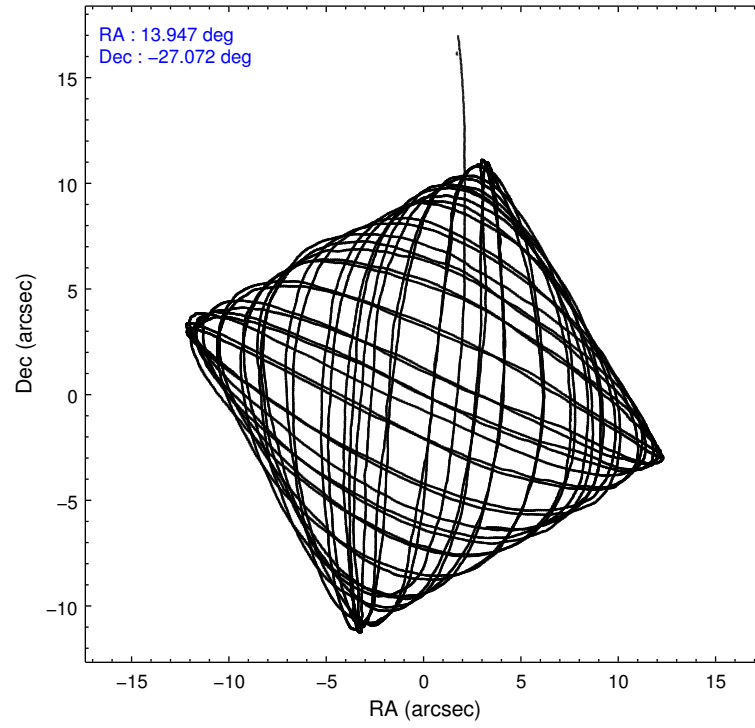
	<b>ccd 7</b>
grade 0 events	7034
	3%
grade 1 events	308
	0%
grade 2 events	17602
	8%
grade 3 events	6851
	3%
grade 4 events	6447
	3%
grade 5 events	18909
	9%
grade 6 events	48142
	24%
grade 7 events	93743
	47%

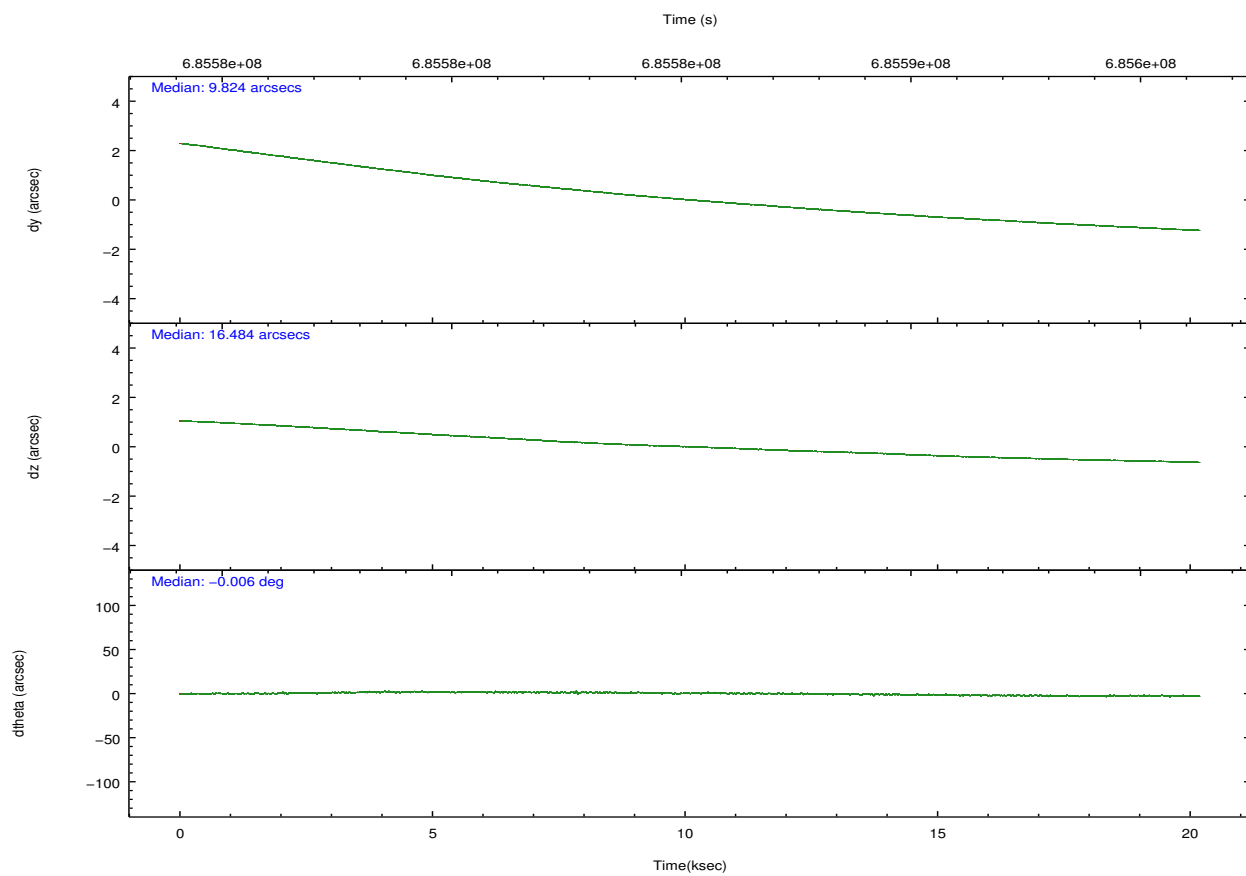
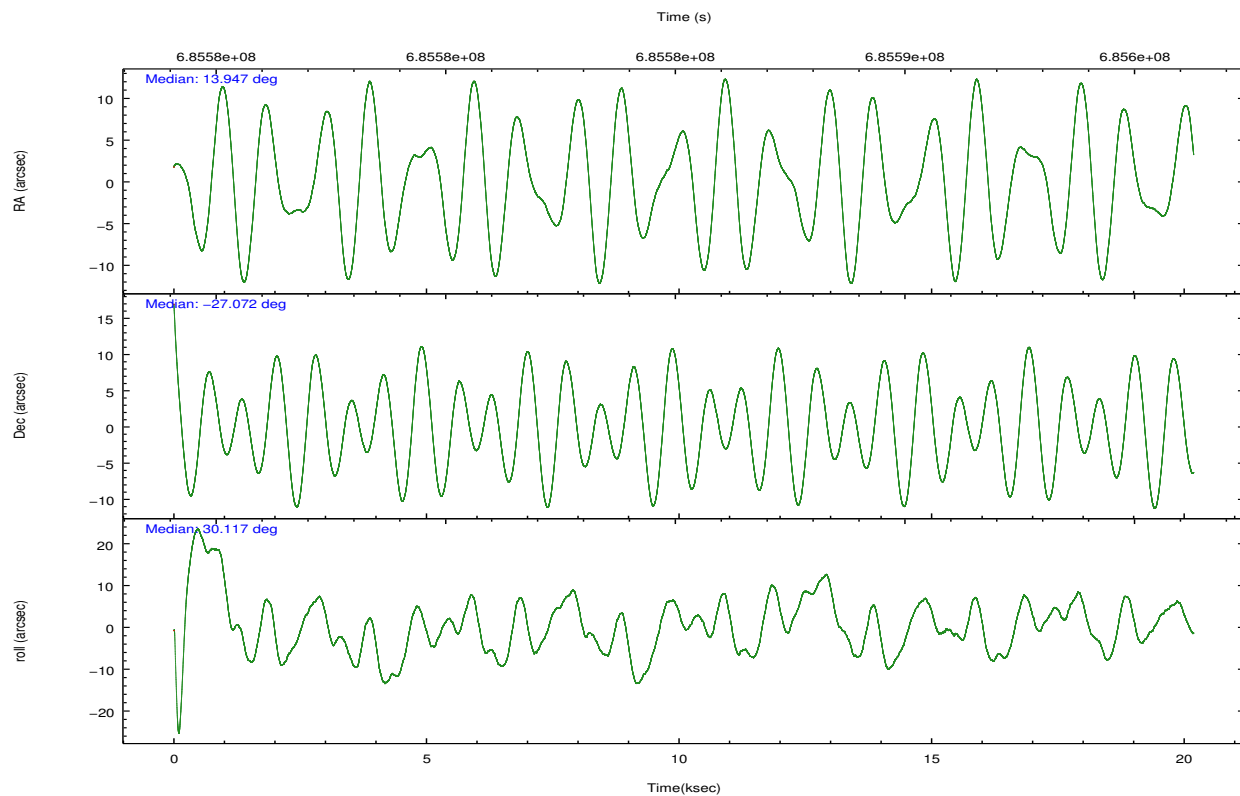
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	13.931937	13.94694620822533
[deg] Pointing Dec	-27.096243	-27.07226044706899
[deg] Pointing Roll	29.955440	30.1189229321361
[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)	685575299.184000	685574459.12129
Observation start date	2019-09-22T21:33:50	2019-09-22T21:20:59
[s] Observation end time (MET)	685595299.184000	685596441.2726099
Observation end date	2019-09-23T03:07:10	2019-09-23T03:27:21
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3

## 2.3 Aspect



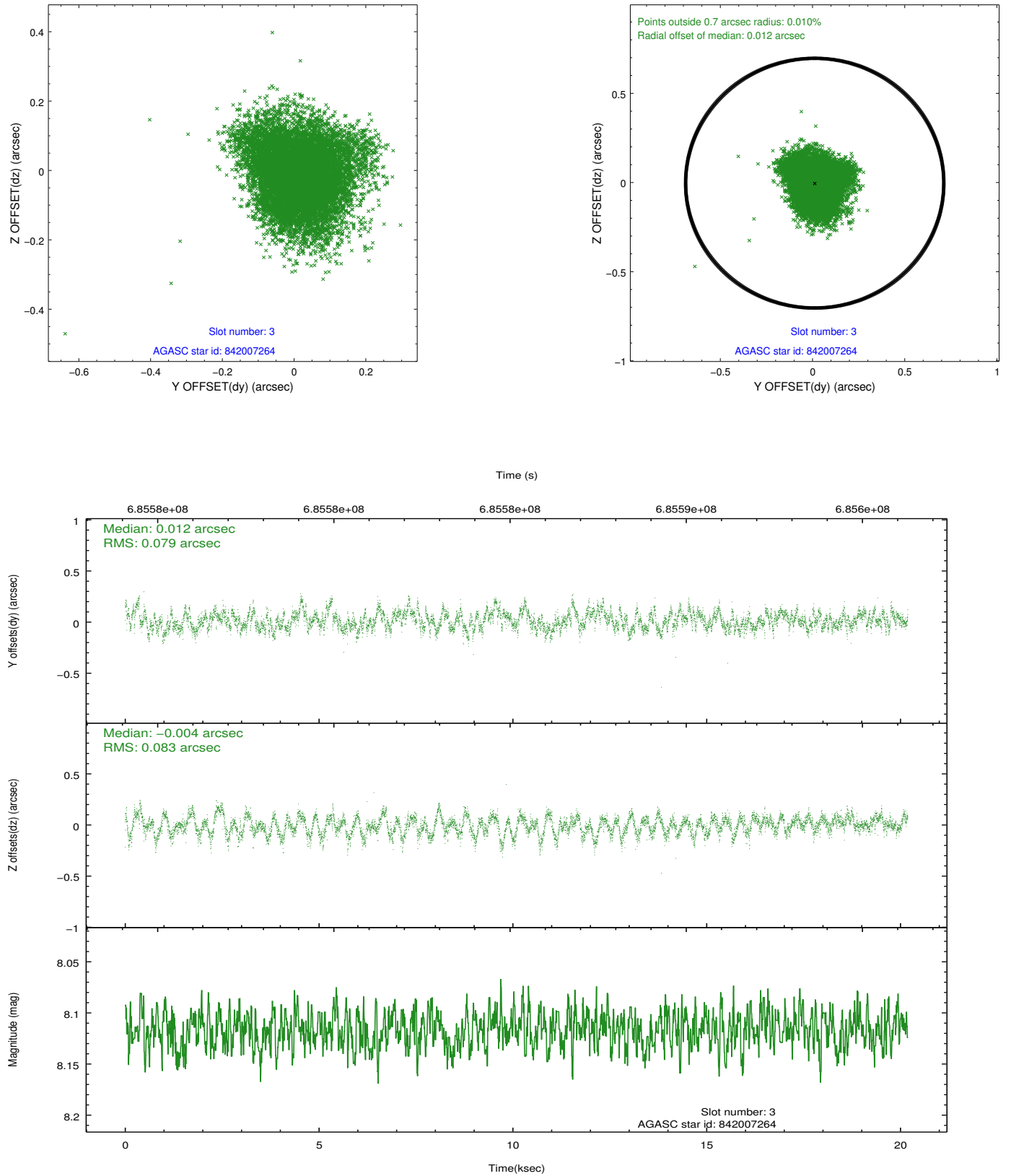


Slot Statistics

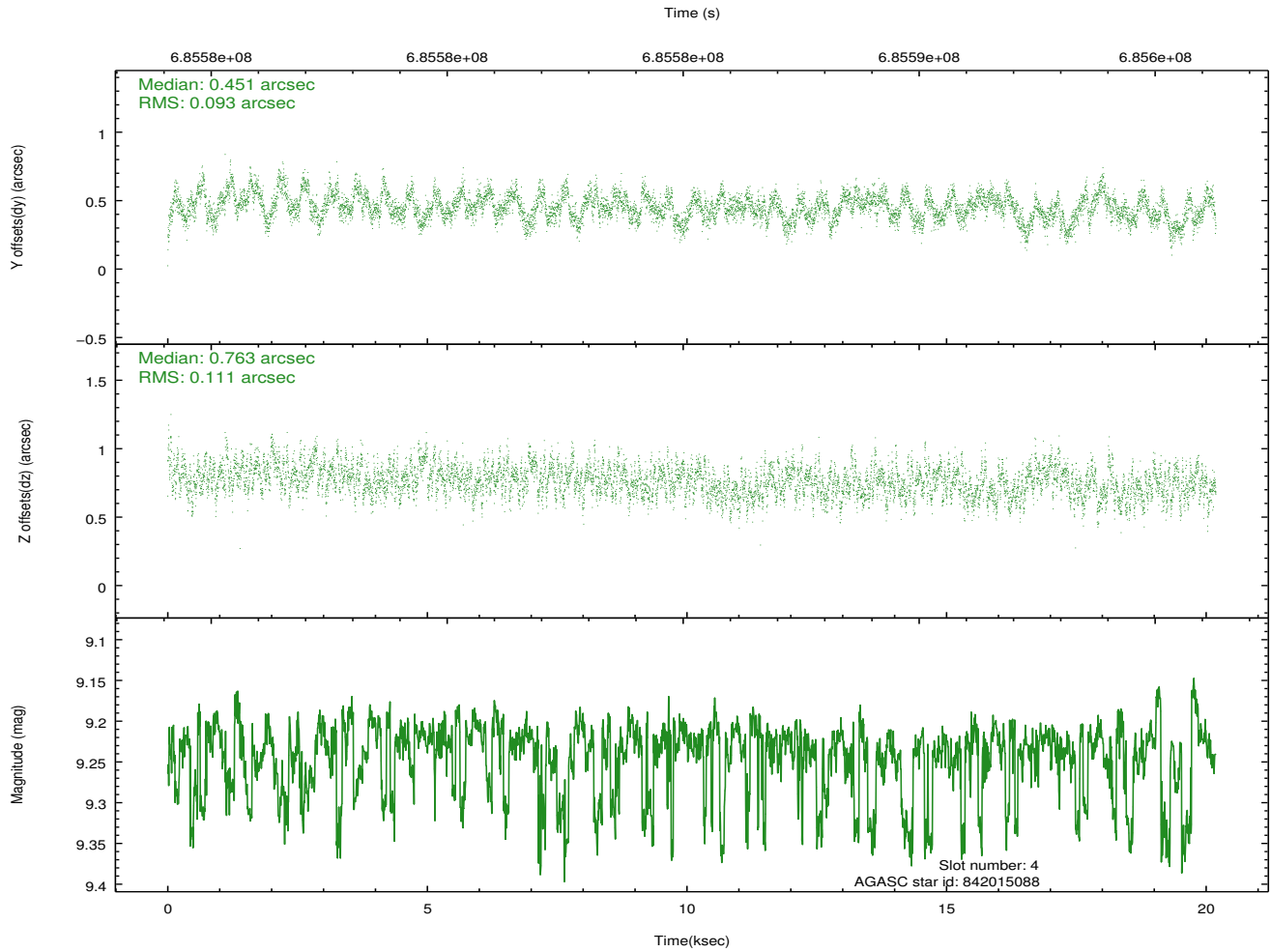
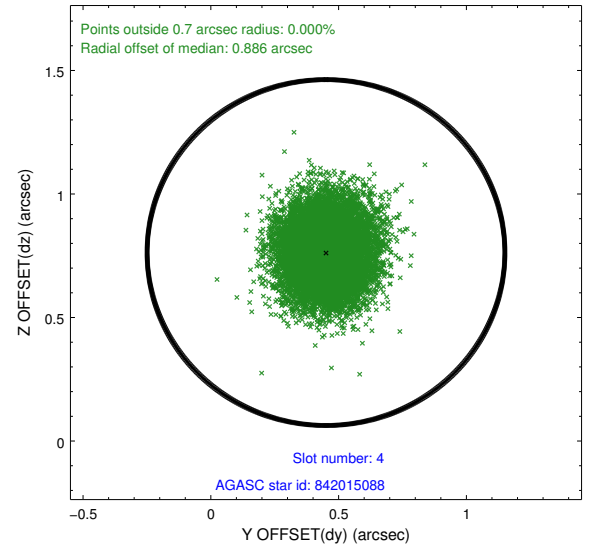
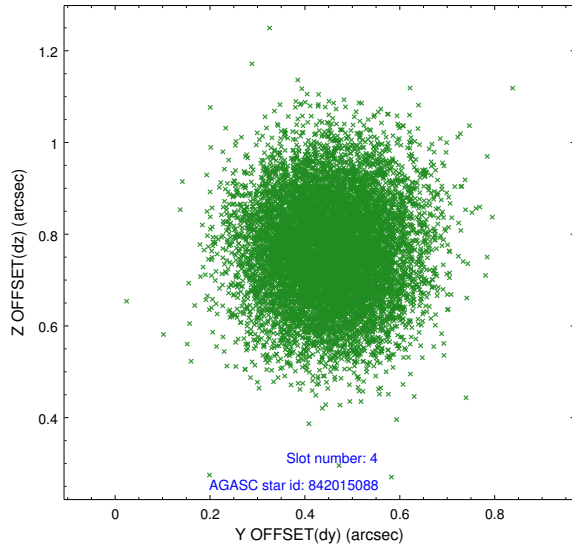
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.14	4925	1.000	-0.257	-0.157	0.034	0.055	0.000000	0.000000	-763.05	-1738
1	FID		ACIS-S-4	7.29	4925	1.000	0.686	0.168	0.019	0.046	0.000000	0.000000	2151.02	170
2	FID		ACIS-S-5	7.25	4925	1.000	-0.454	-0.004	0.032	0.069	0.000000	0.000000	-1815.91	164
3	GUIDE	used	842007264	8.12	9844	1.000	0.012	-0.004	0.122	0.198	14.570692	-27.092422	1778.53	-1015
4	GUIDE	used	842015088	9.24	9829	1.000	0.451	0.763	0.155	0.247	13.933025	-27.893682	-1430.11	-2488
5	GUIDE	used	842017392	9.23	9836	1.000	-0.177	-0.241	0.198	0.331	13.825957	-26.597403	600.99	1725
6	GUIDE	used	842022320	8.75	9834	1.000	-0.296	-0.523	0.172	0.255	14.026788	-26.347023	1613.17	2183
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

## 2.4 Star Slots

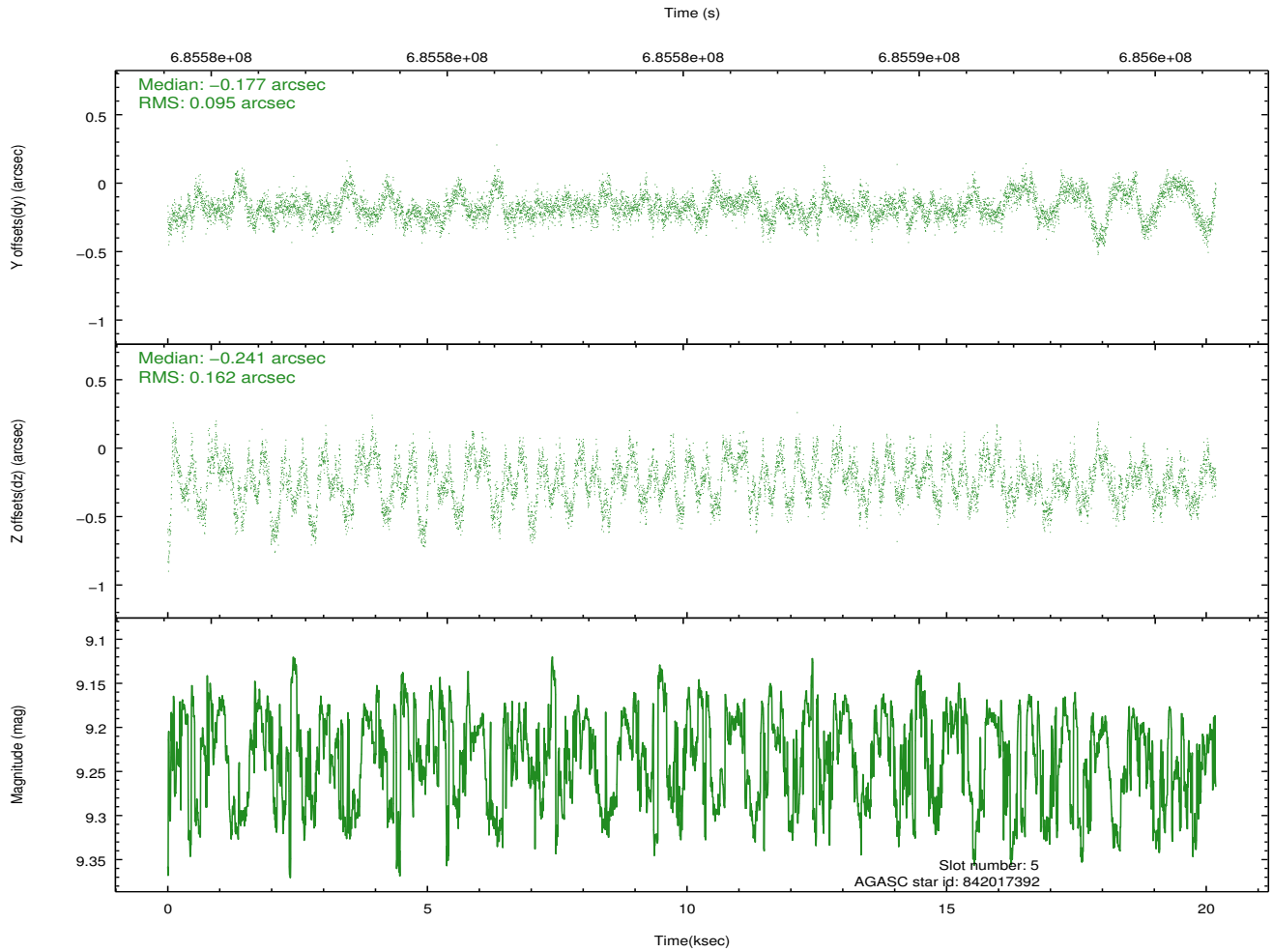
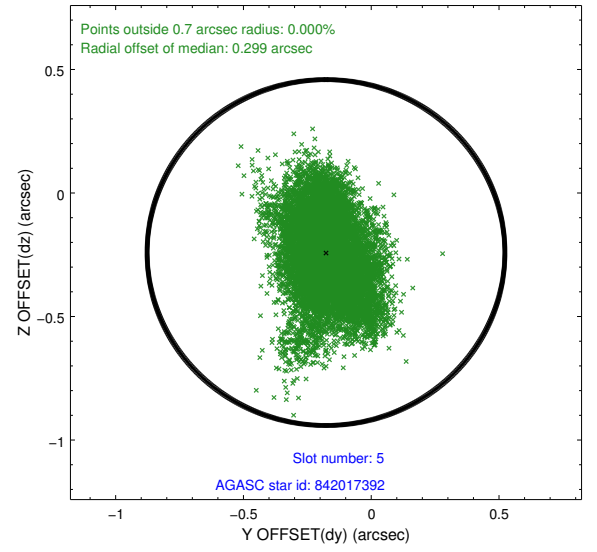
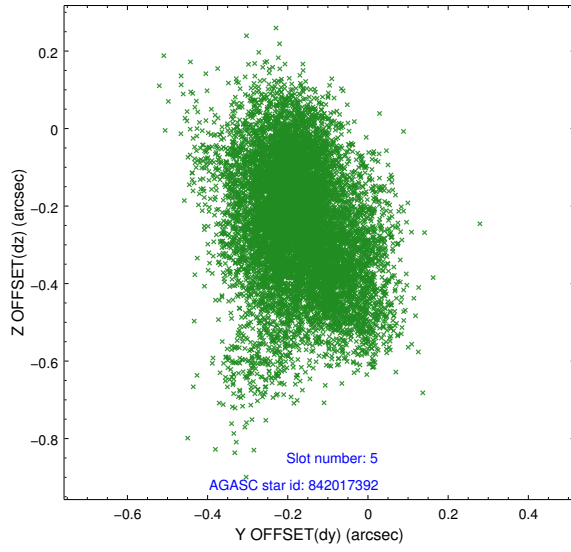
### 2.4.1 Slot 3



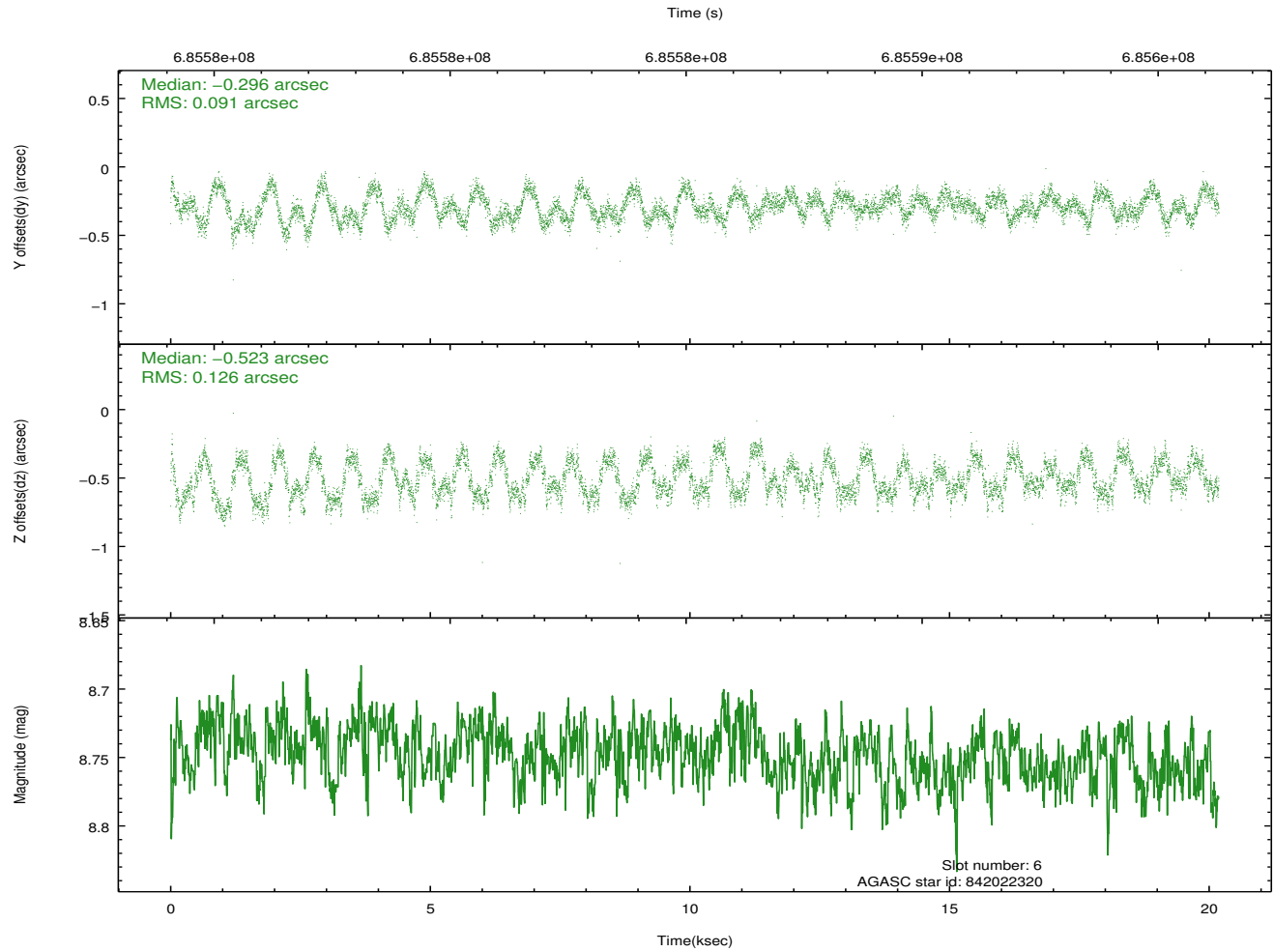
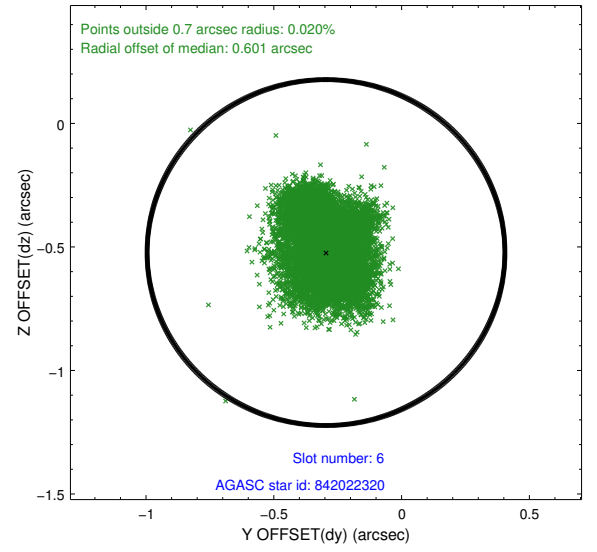
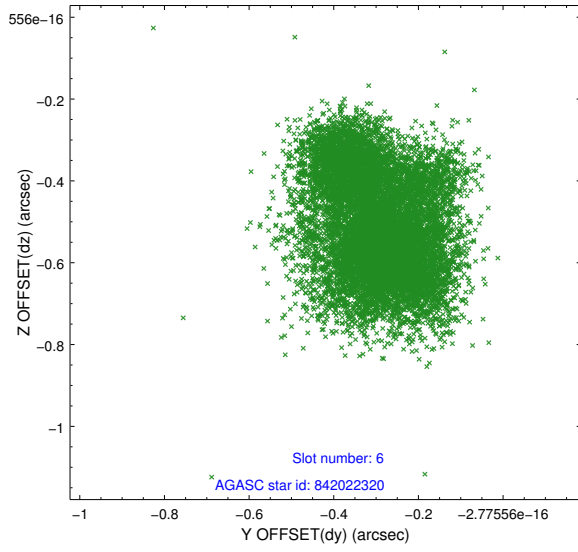
## 2.4.2 Slot 4



### 2.4.3 Slot 5

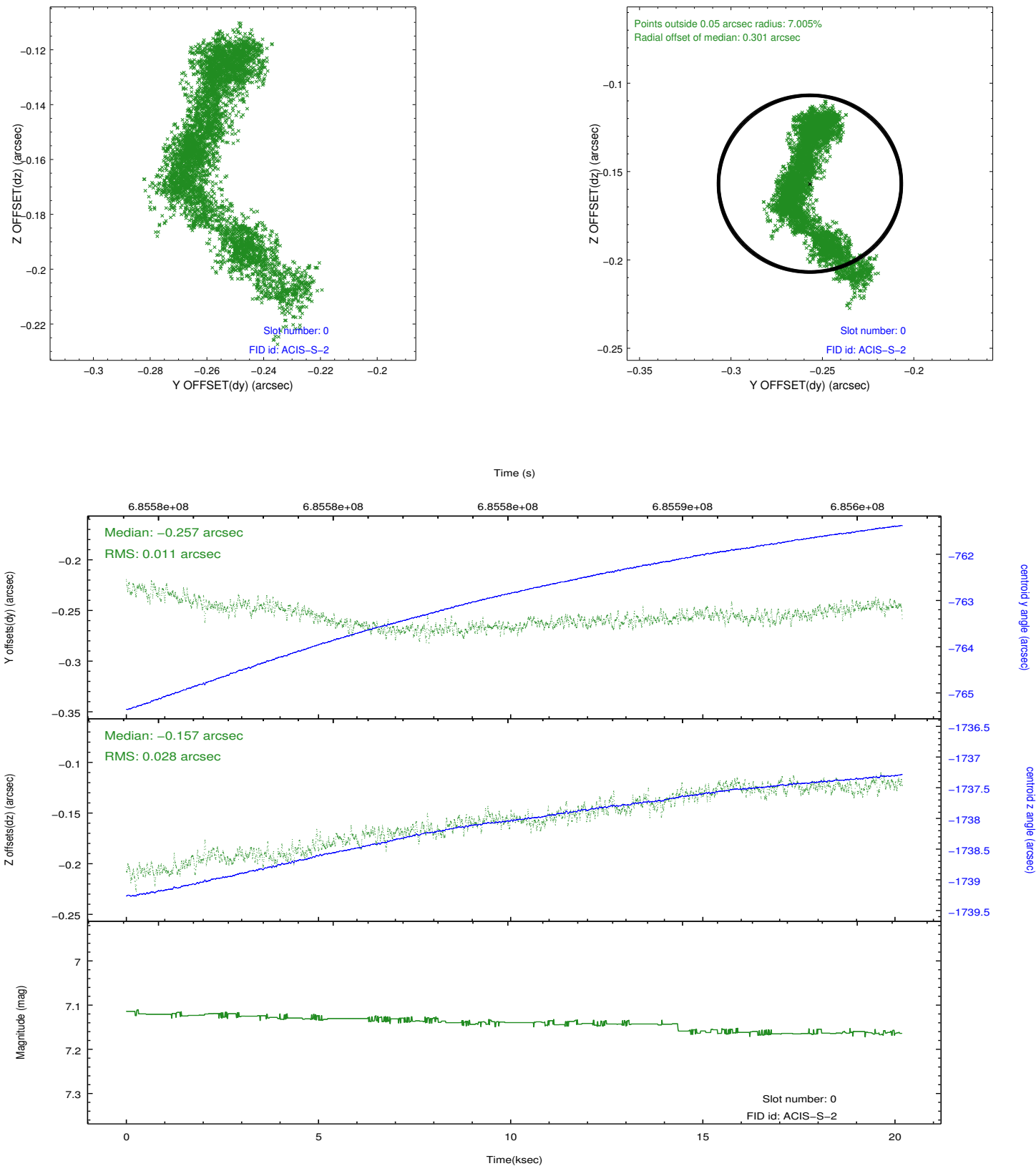


## 2.4.4 Slot 6

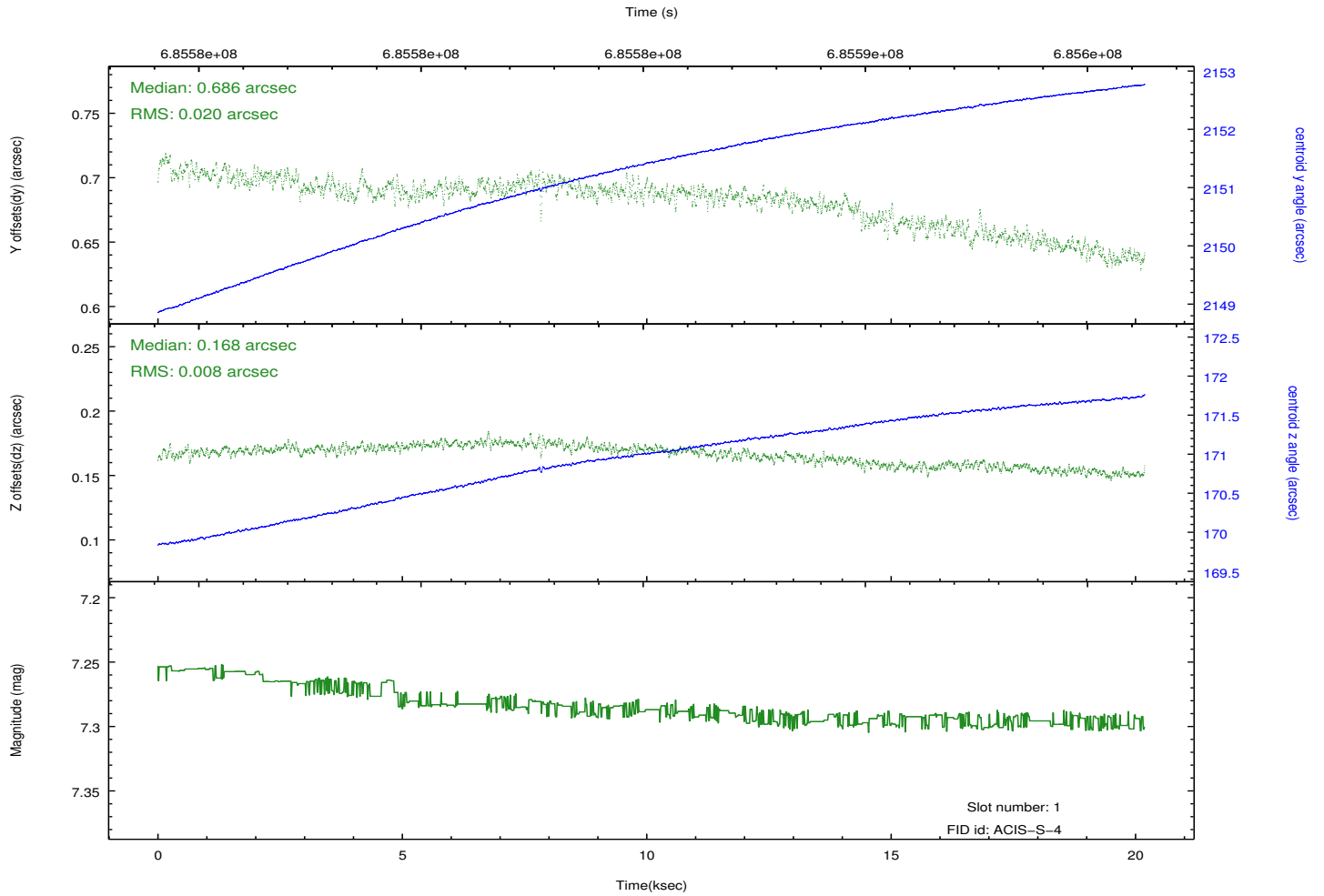
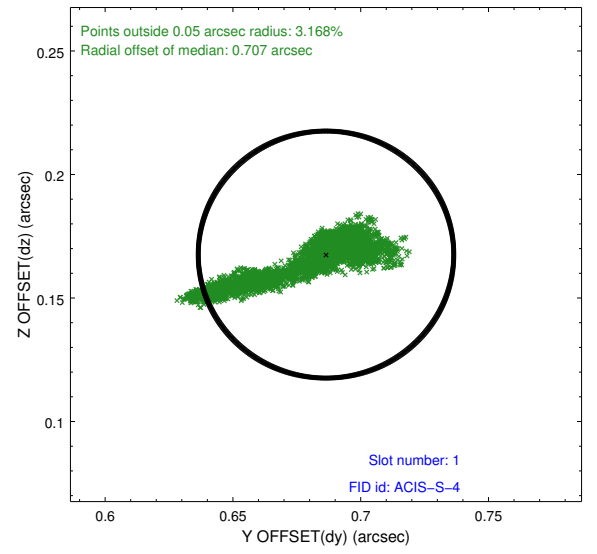
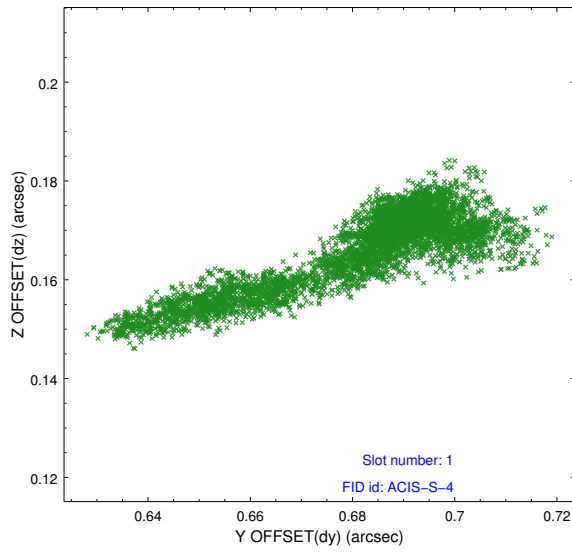


## 2.5 FID Slots

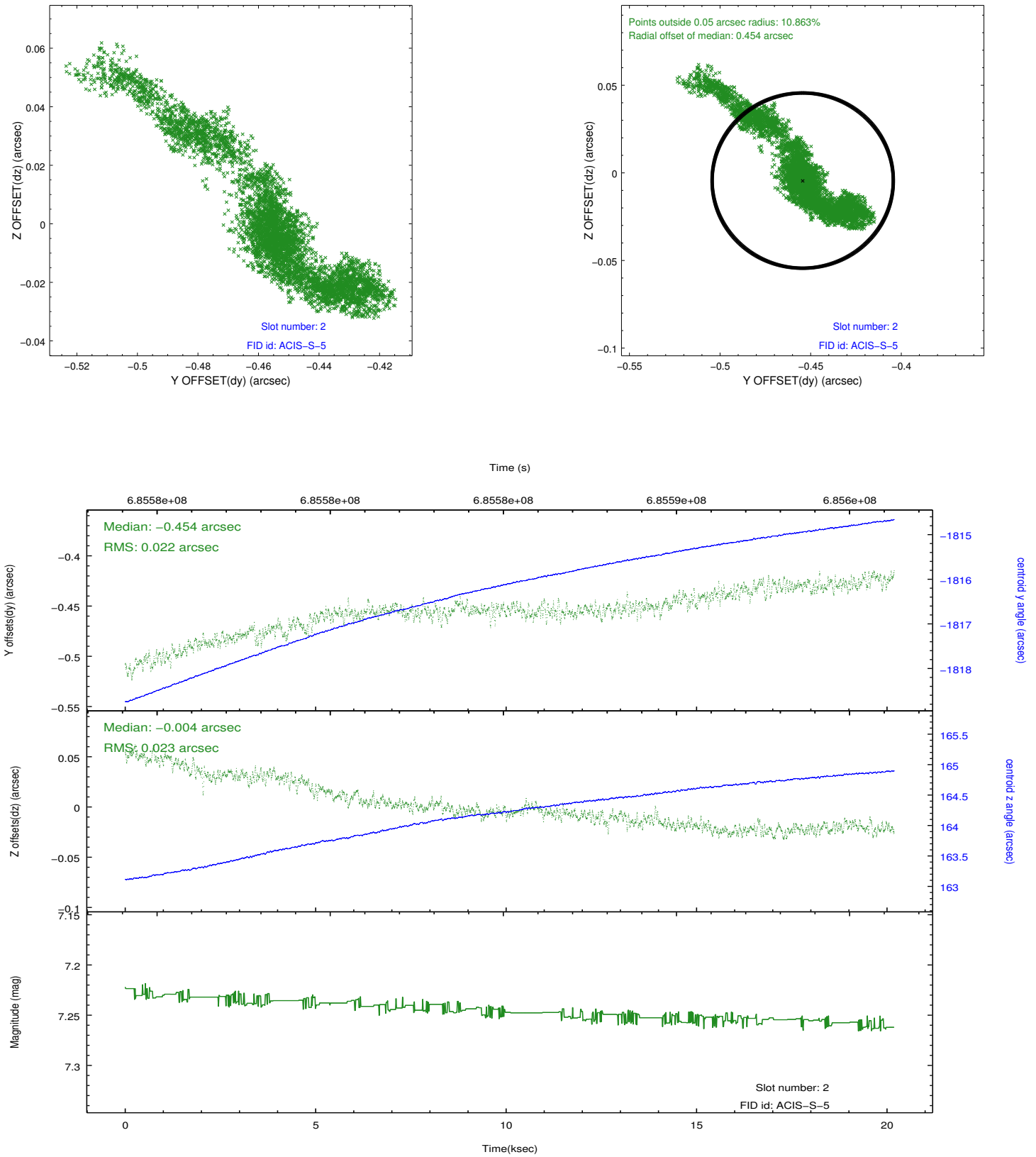
### 2.5.1 Slot 0



## 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)	2019.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.090037344813

### A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.