

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 18172 - L2 Version 1  
Chandra X-Ray Center

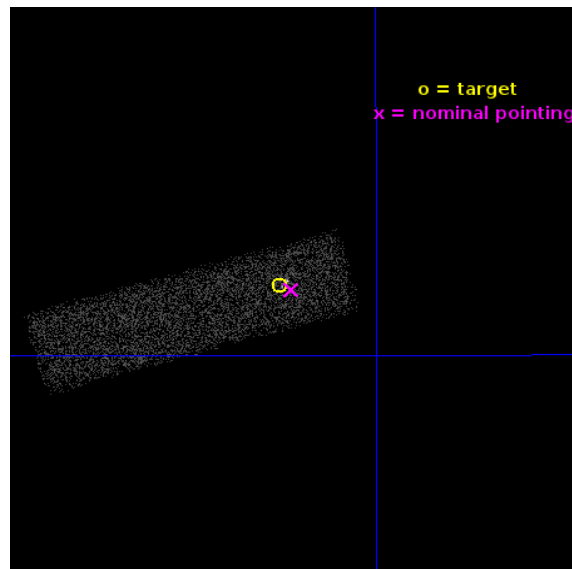
L2 Processing Date : Nov 6 2015

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# 1 Front

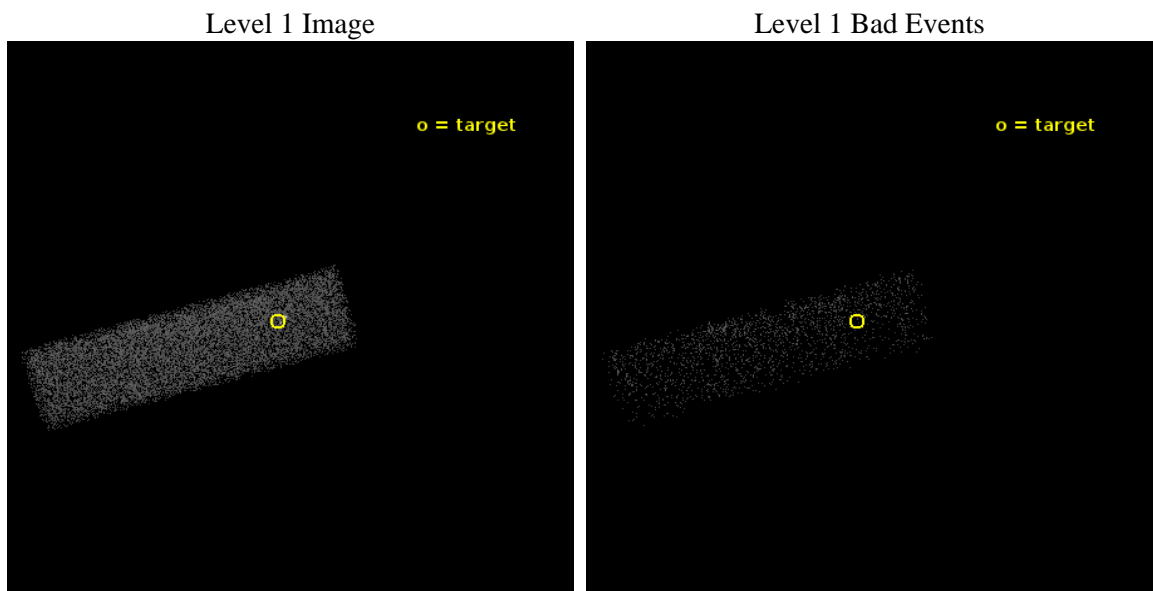
seq_num	703237	Sequence number
obs_id	18172	Observation id
title	Chandra Legacy Survey of Merger Driven AGN Activation in Nearby X-ray Selected AGN	Proposal title
observer	Dr Michael Koss	Principal investigator
object	IRAS 03219+4031	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	51.305	Observer's specified target RA [deg]
dec_targ	40.6985	Observer's specified target Dec [deg]
ra_nom	51.298350126281	Nominal RA [deg]
dec_nom	40.696311499223	Nominal Dec [deg]
roll_nom	164.16102033039	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10060.79940033	Sum of GTIs [s]
livetime	9569.8653099302	Livetime [s]
ontime7	10060.79940033	Sum of GTIs [s]
l2events	9904	Number of level 2 events



## 2 OBI

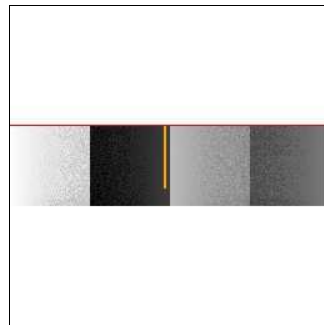
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	10060.79940033	Sum of GTIs [s]
caldsver	4.6.10a	&#160	ontime7	10060.79940033	Sum of GTIs [s]
date	2015-11-06T17:41:48	Date and time of file creation	l1events	20133	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	20133
rejected events	9919
rejected %	49%

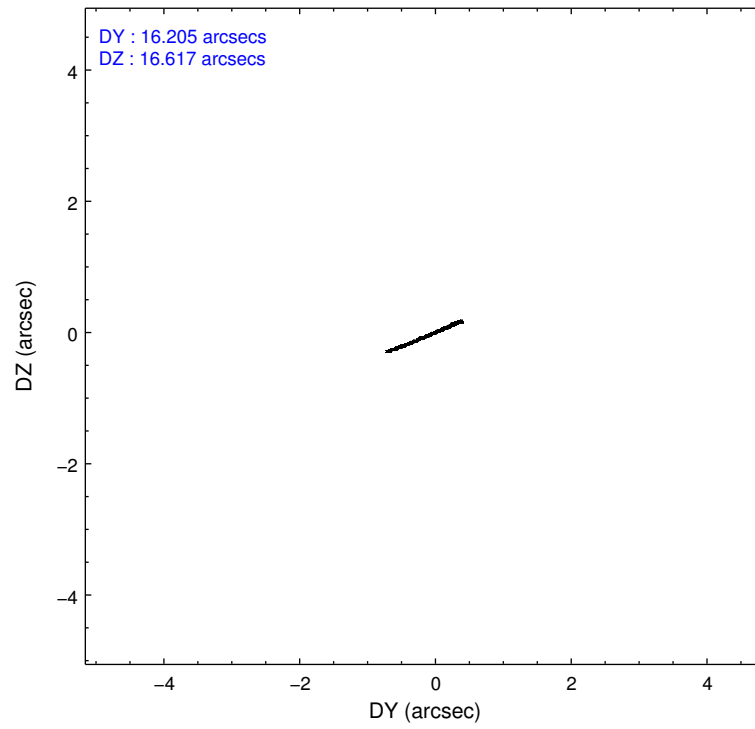
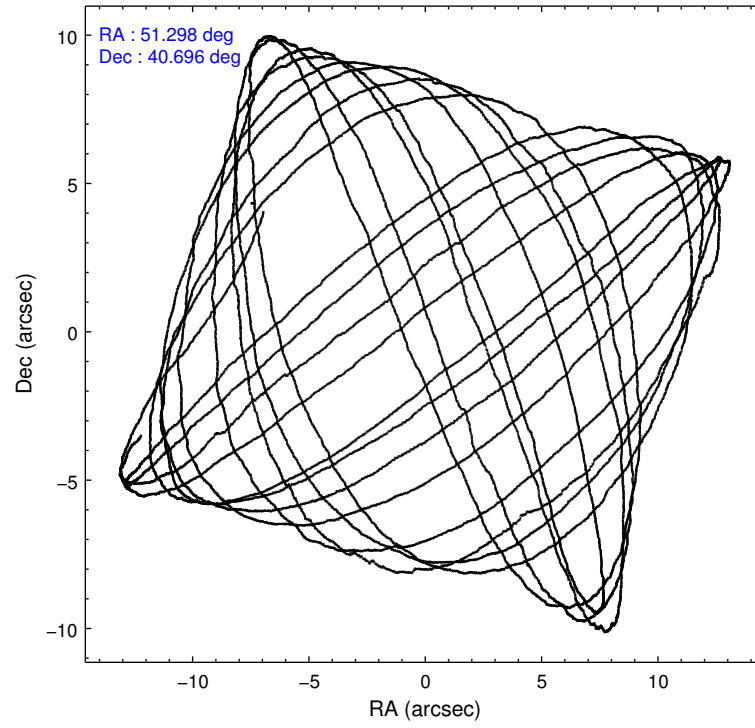
	<b>ccd 7</b>
grade 0 events	1164
	5%
grade 1 events	27
	0%
grade 2 events	2086
	10%
grade 3 events	1118
	5%
grade 4 events	1038
	5%
grade 5 events	1965
	9%
grade 6 events	4808
	23%
grade 7 events	7927
	39%

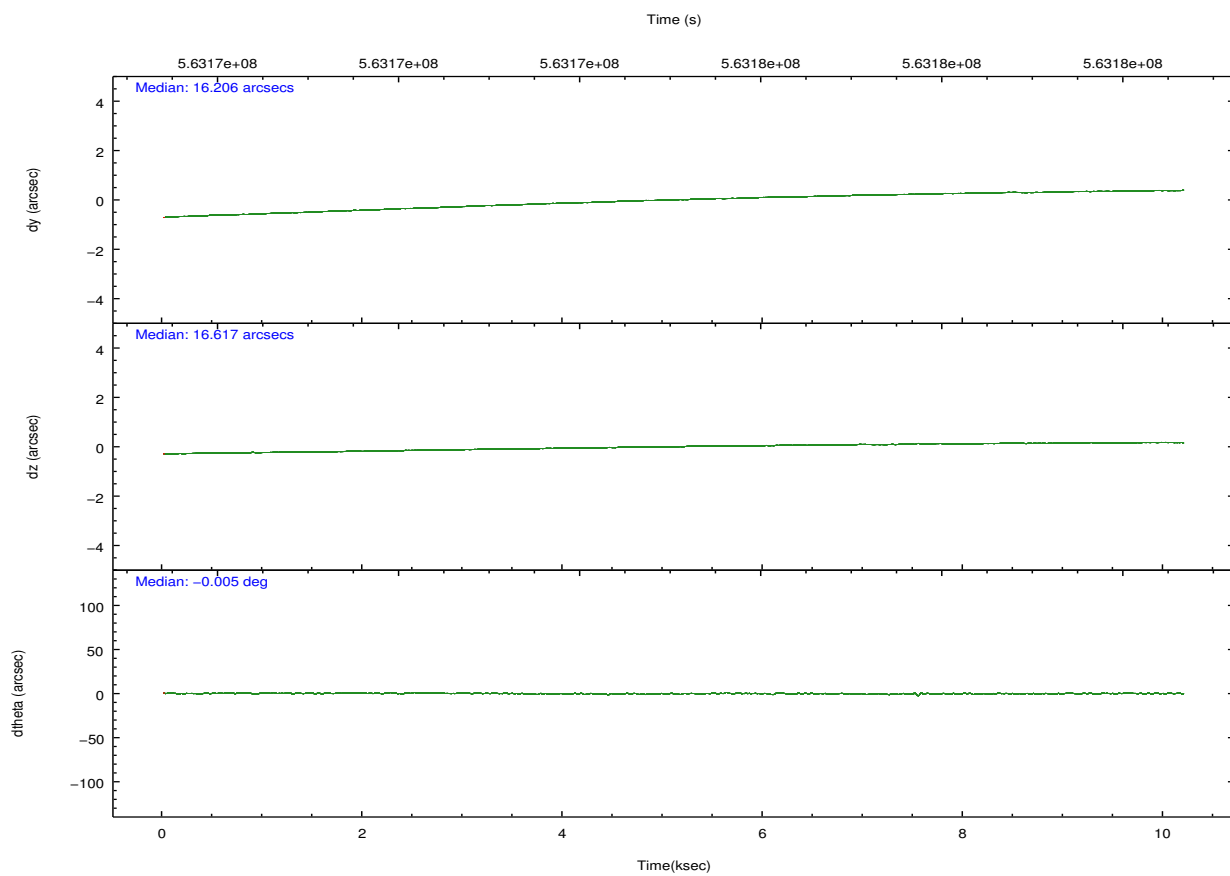
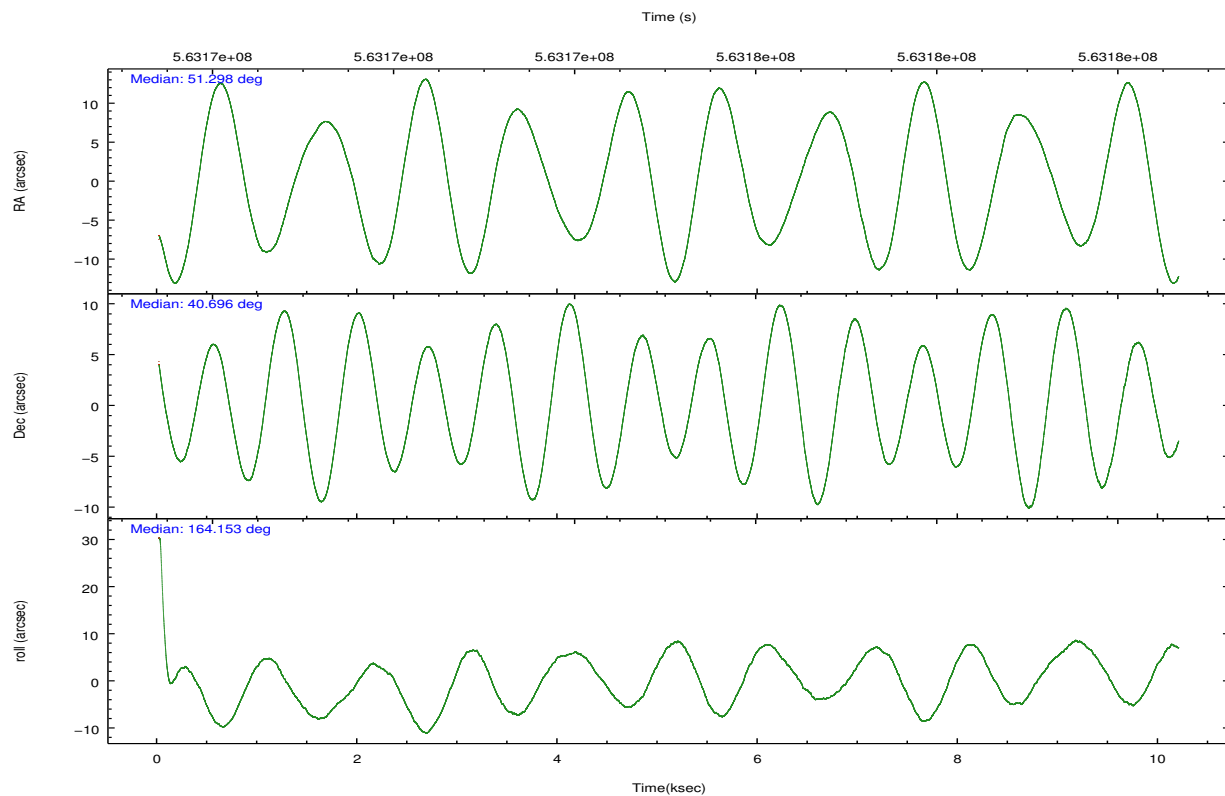


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	51.333387	51.29835012628096	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	40.703417	40.69631149922277	Subarray start row	385	385
[deg] Pointing Roll	163.981489	164.1610203303942	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	563170132.184000	563168760.77891			
Observation start date	2015-11-06T04:07:44	2015-11-06T03:46:00			
[s] Observation end time (MET)	563180132.184000	563180902.9296			
Observation end date	2015-11-06T06:54:24	2015-11-06T07:08:22			
Read mode	TIMED	TIMED			

## 2.3 Aspect



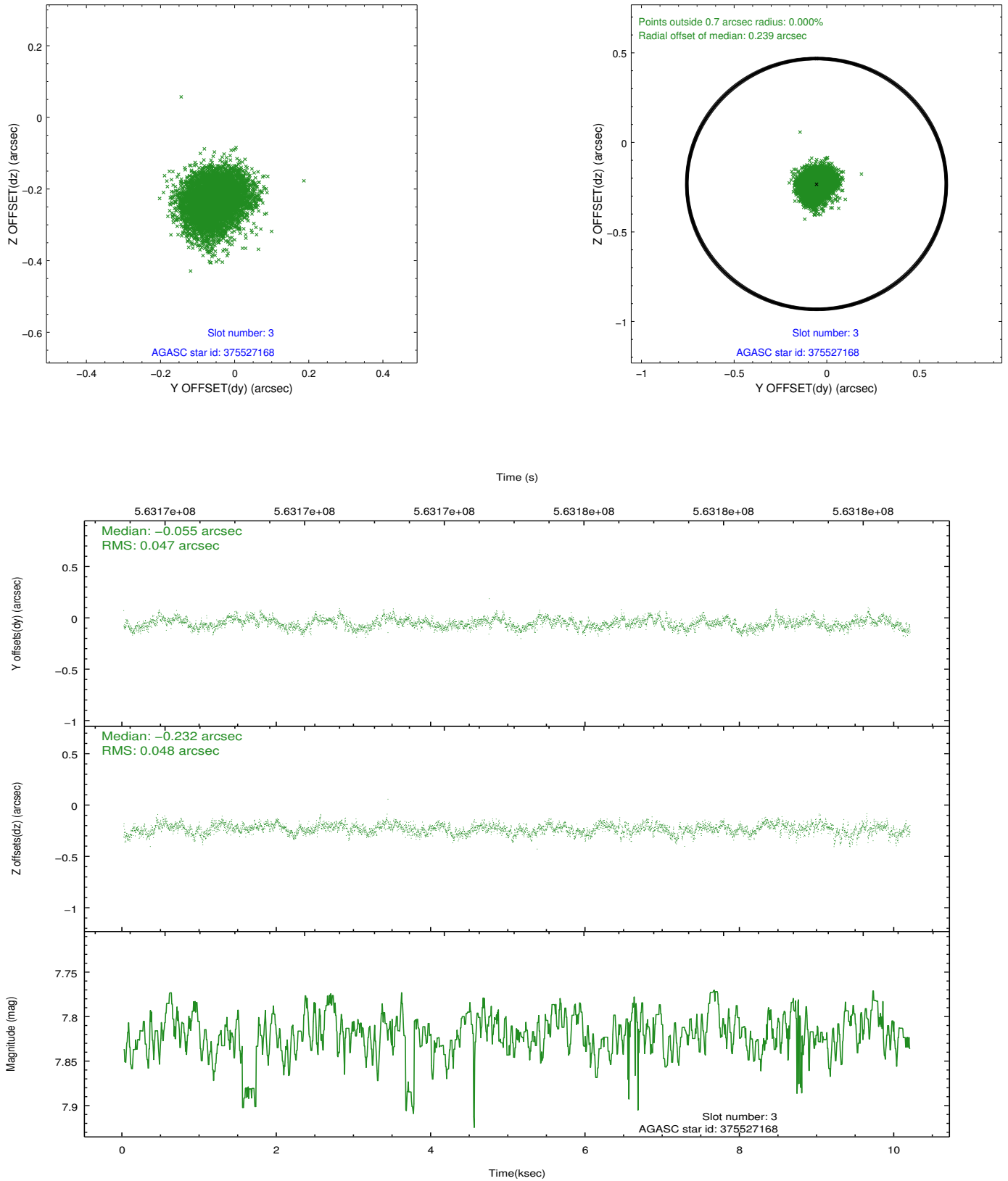


### Slot Statistics

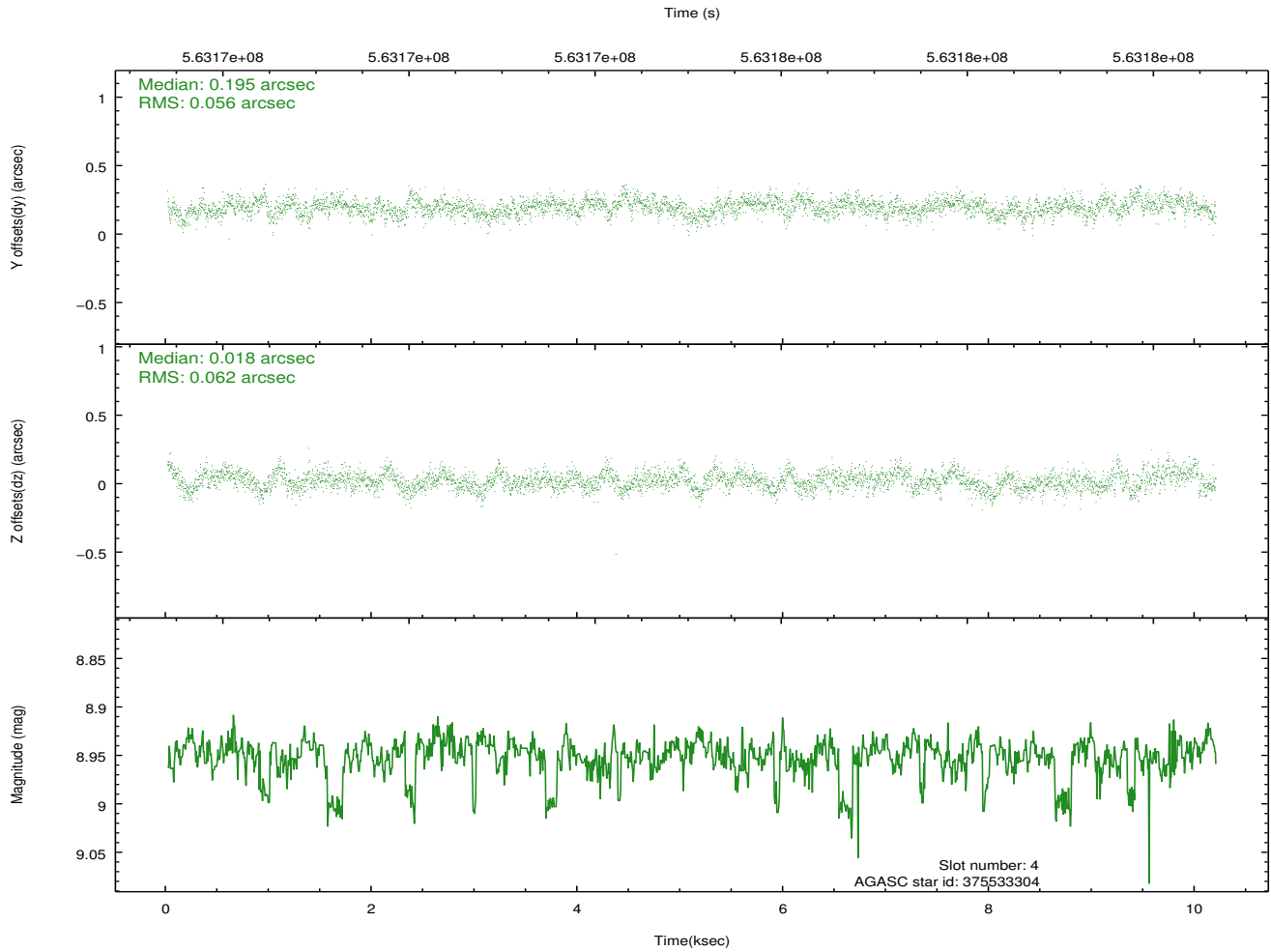
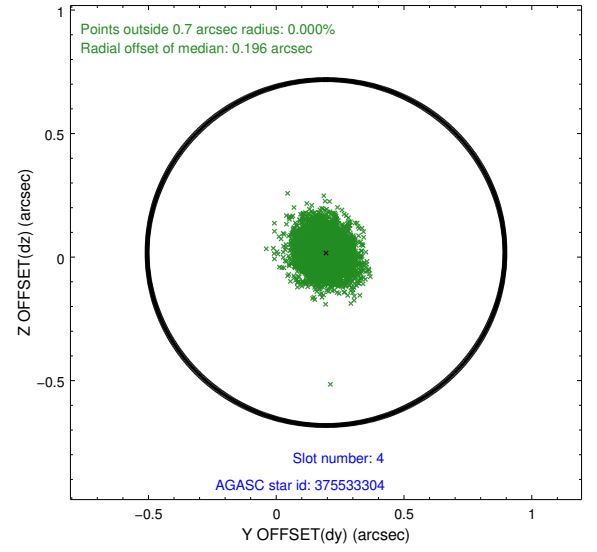
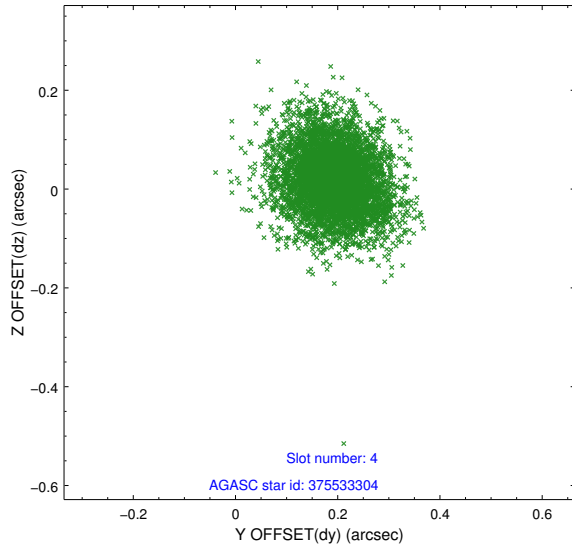
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	2485	-0.170	-0.084	0.012	0.018	0.000000	0.000000	-769.29	-1738.01
1	FID		ACIS-S-4	7.22	2486	0.400	0.105	0.006	0.013	0.000000	0.000000	2144.29	170.16
2	FID		ACIS-S-5	7.25	2486	-0.261	-0.012	0.012	0.020	0.000000	0.000000	-1821.59	164.25
3	GUIDE	used	375527168	7.82	4968	-0.055	-0.232	0.072	0.112	50.968367	40.629276	885.43	529.83
4	GUIDE	used	375533304	8.95	4966	0.195	0.018	0.089	0.146	51.833632	40.116937	-1904.99	1645.62
5	GUIDE	used	376046208	8.17	4971	0.134	0.432	0.078	0.126	51.749247	41.273134	-514.88	-2283.38
6	GUIDE	used	376070440	6.97	4970	0.011	0.167	0.091	0.149	51.289107	41.257301	665.95	-1883.66
7	GUIDE	used	375531296	8.37	4968	-0.292	-0.384	0.089	0.143	50.781952	40.166954	926.35	2270.02

## 2.4 Star Slots

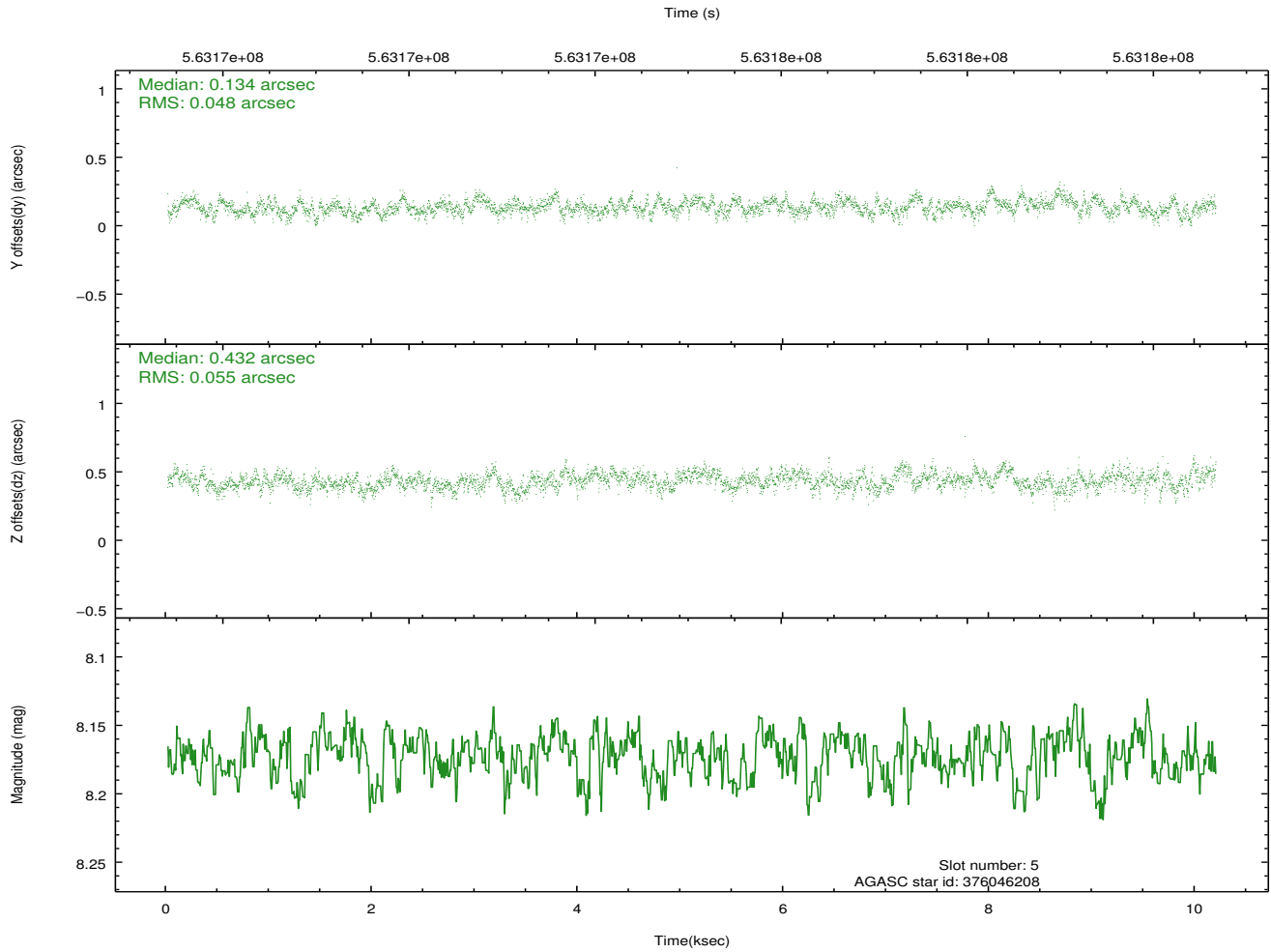
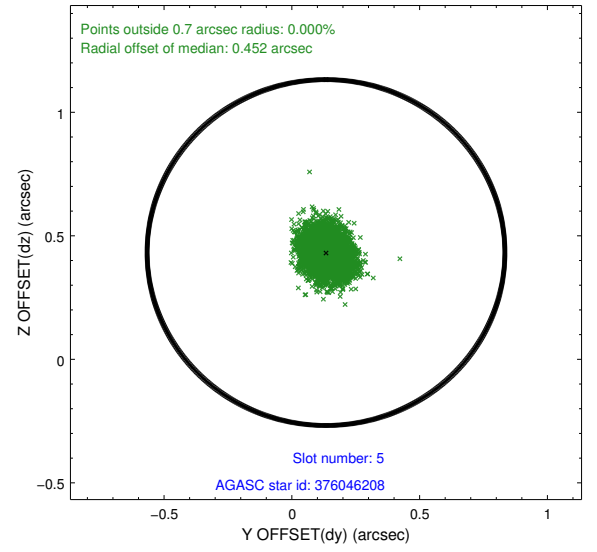
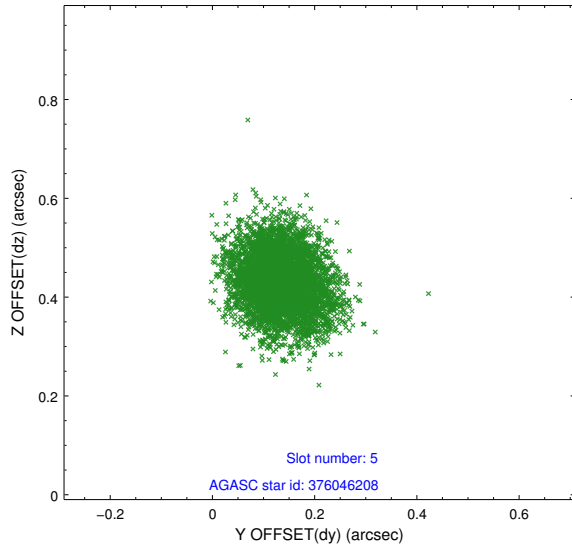
### 2.4.1 Slot 3



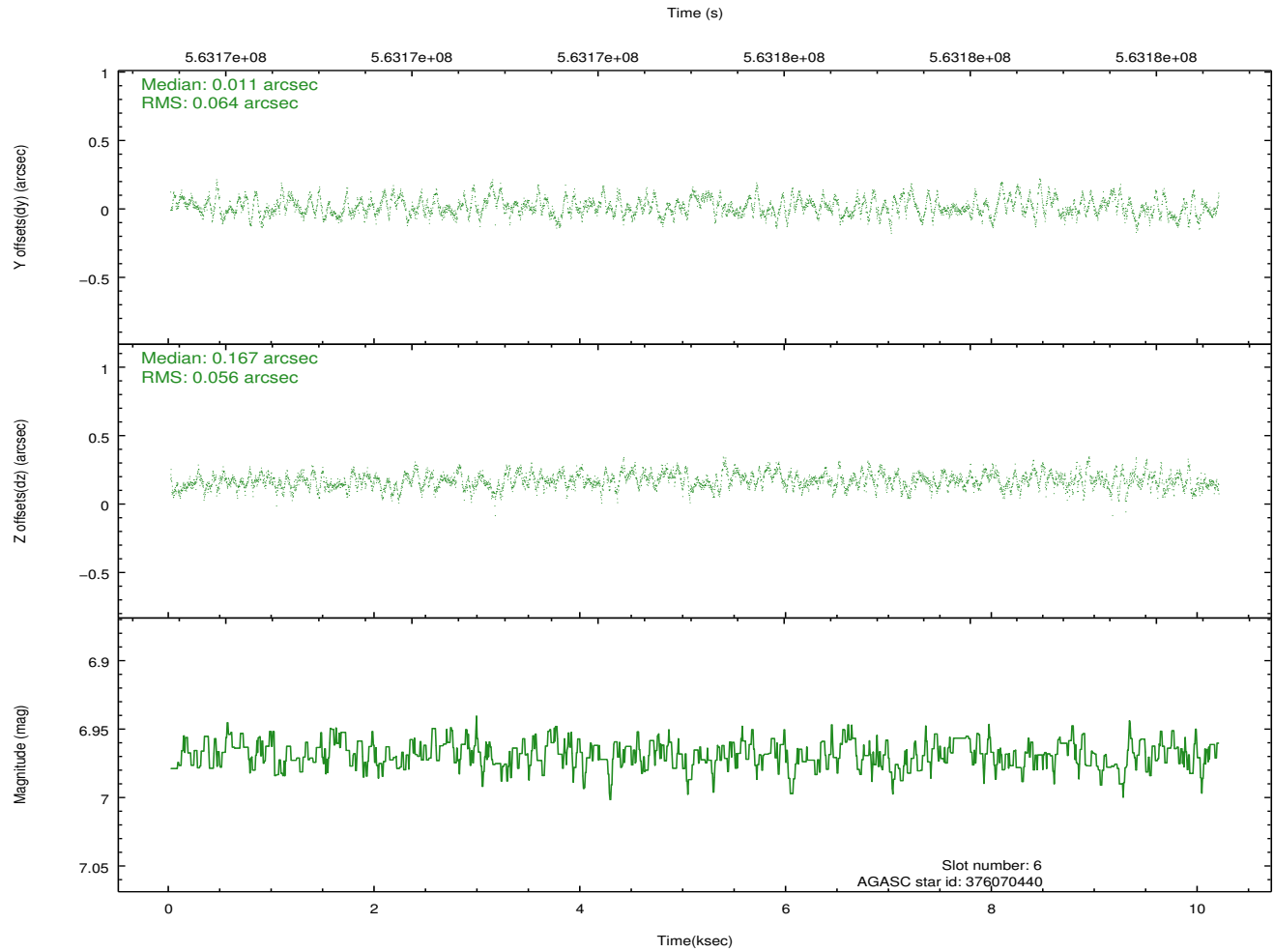
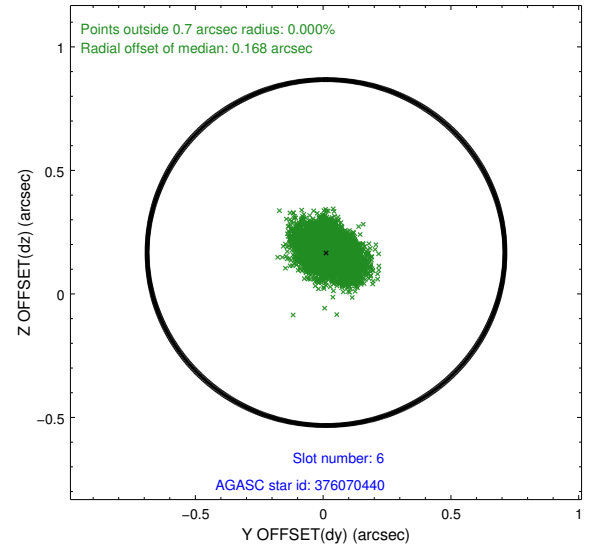
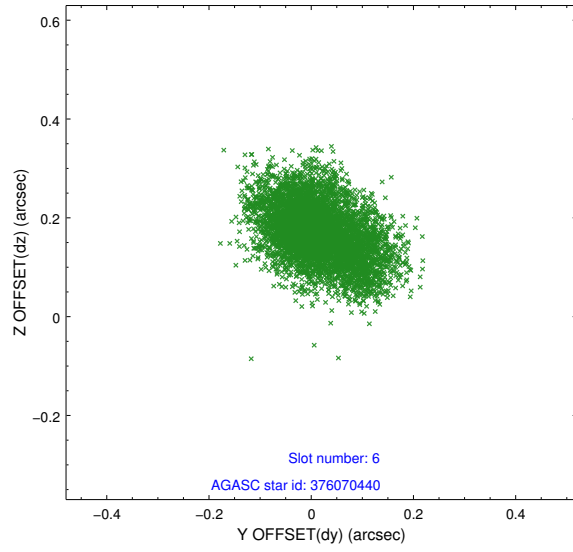
## 2.4.2 Slot 4



### 2.4.3 Slot 5

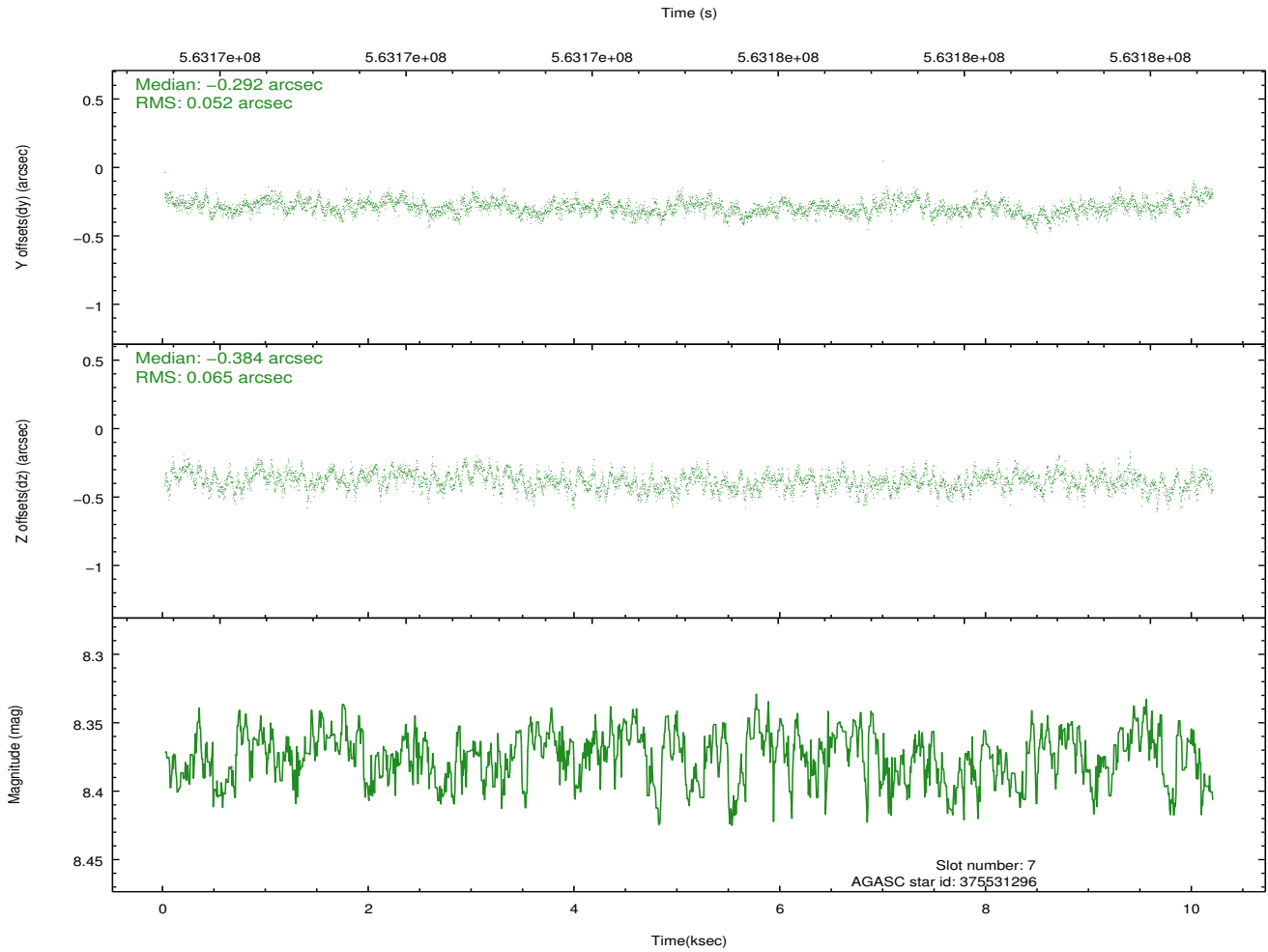
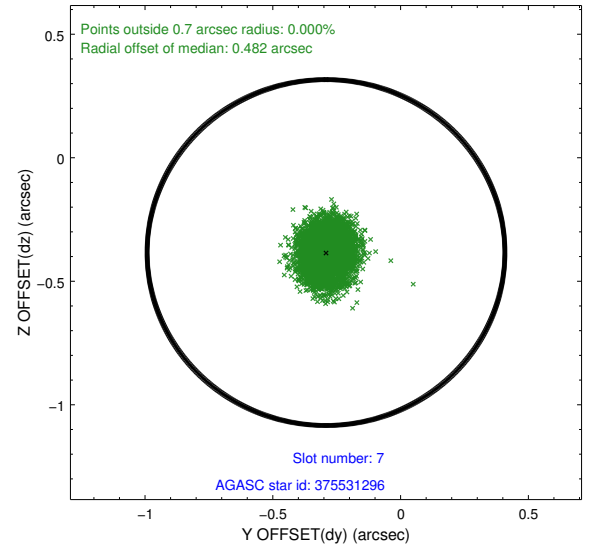
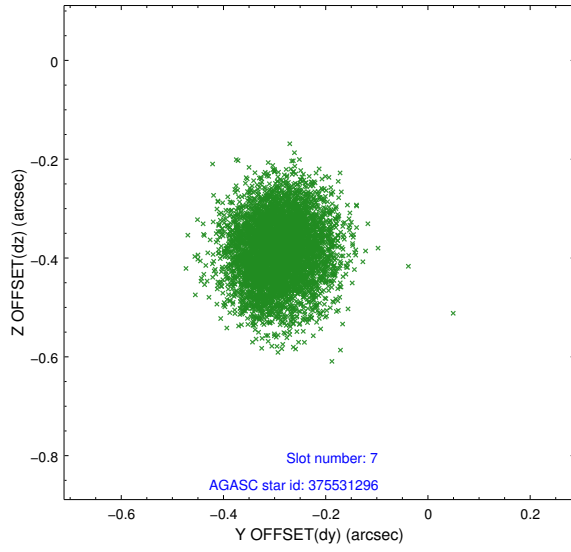


## 2.4.4 Slot 6



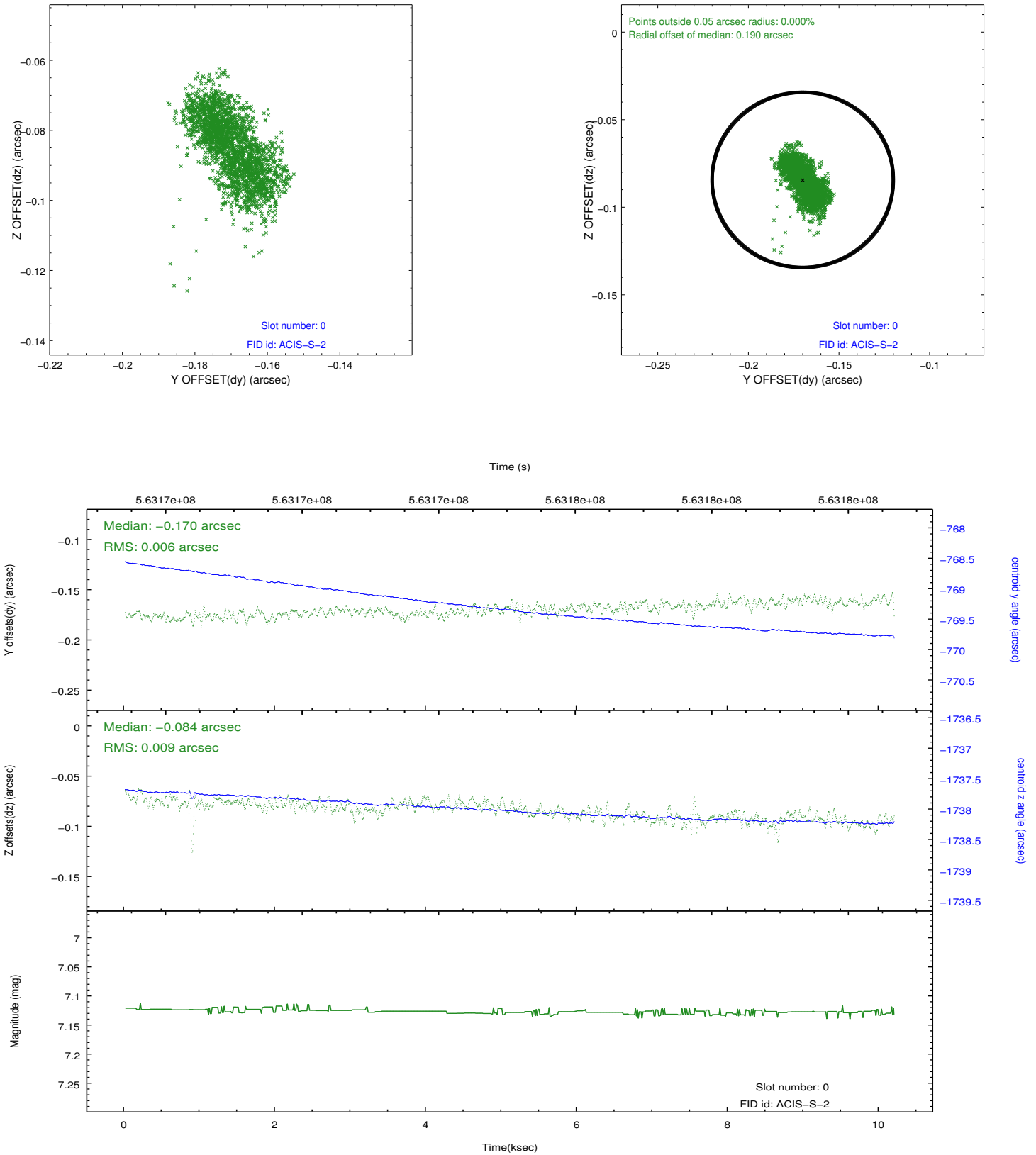


## 2.4.5 Slot 7

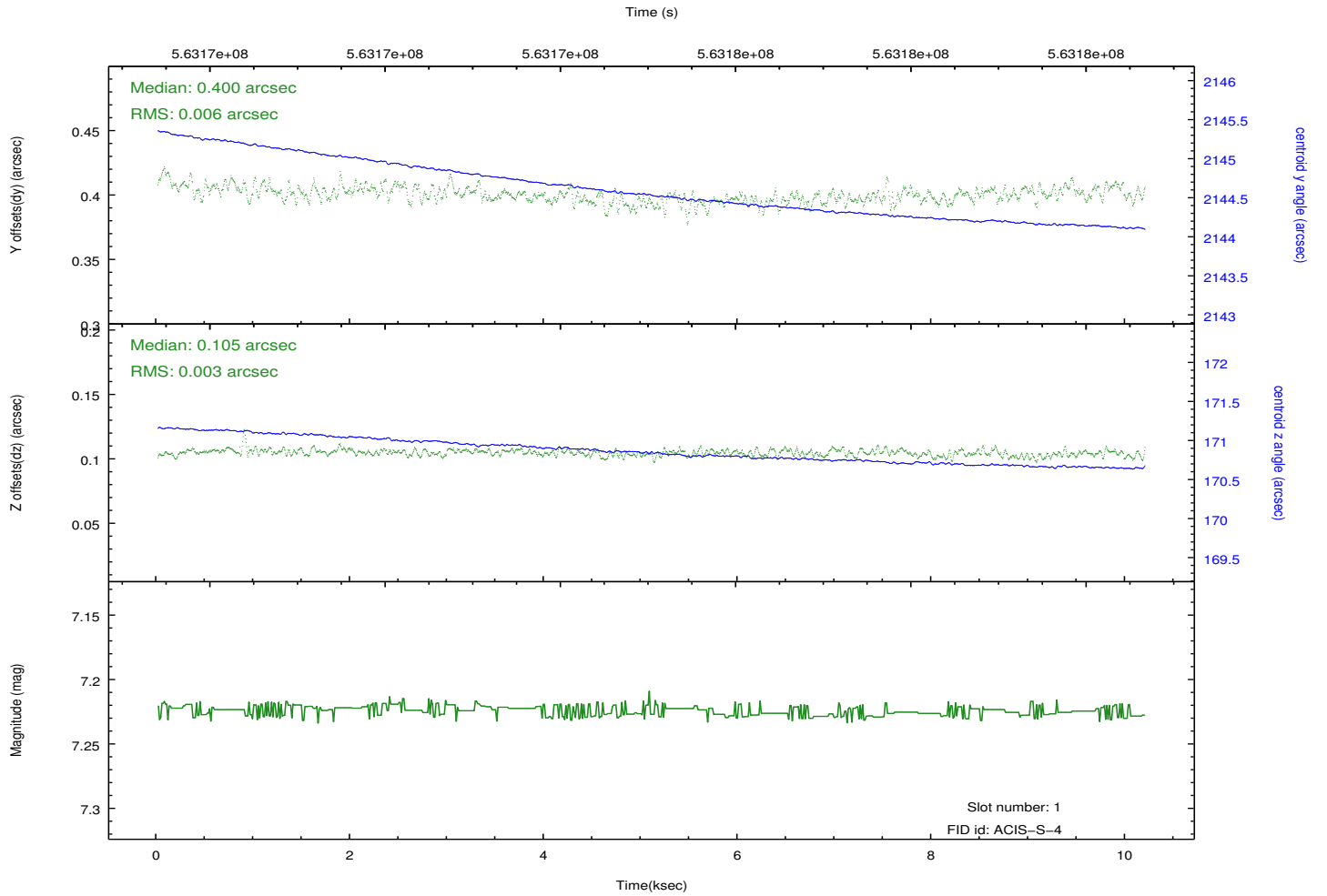
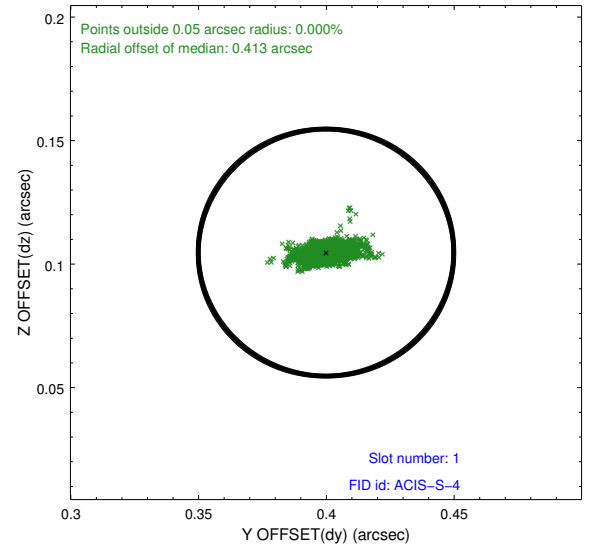
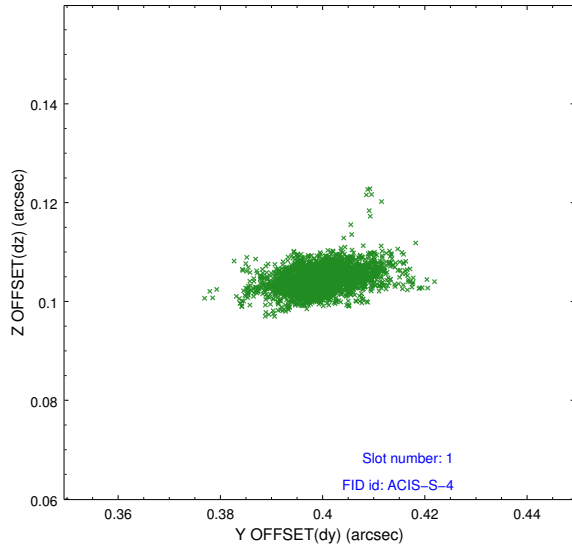


## 2.5 FID Slots

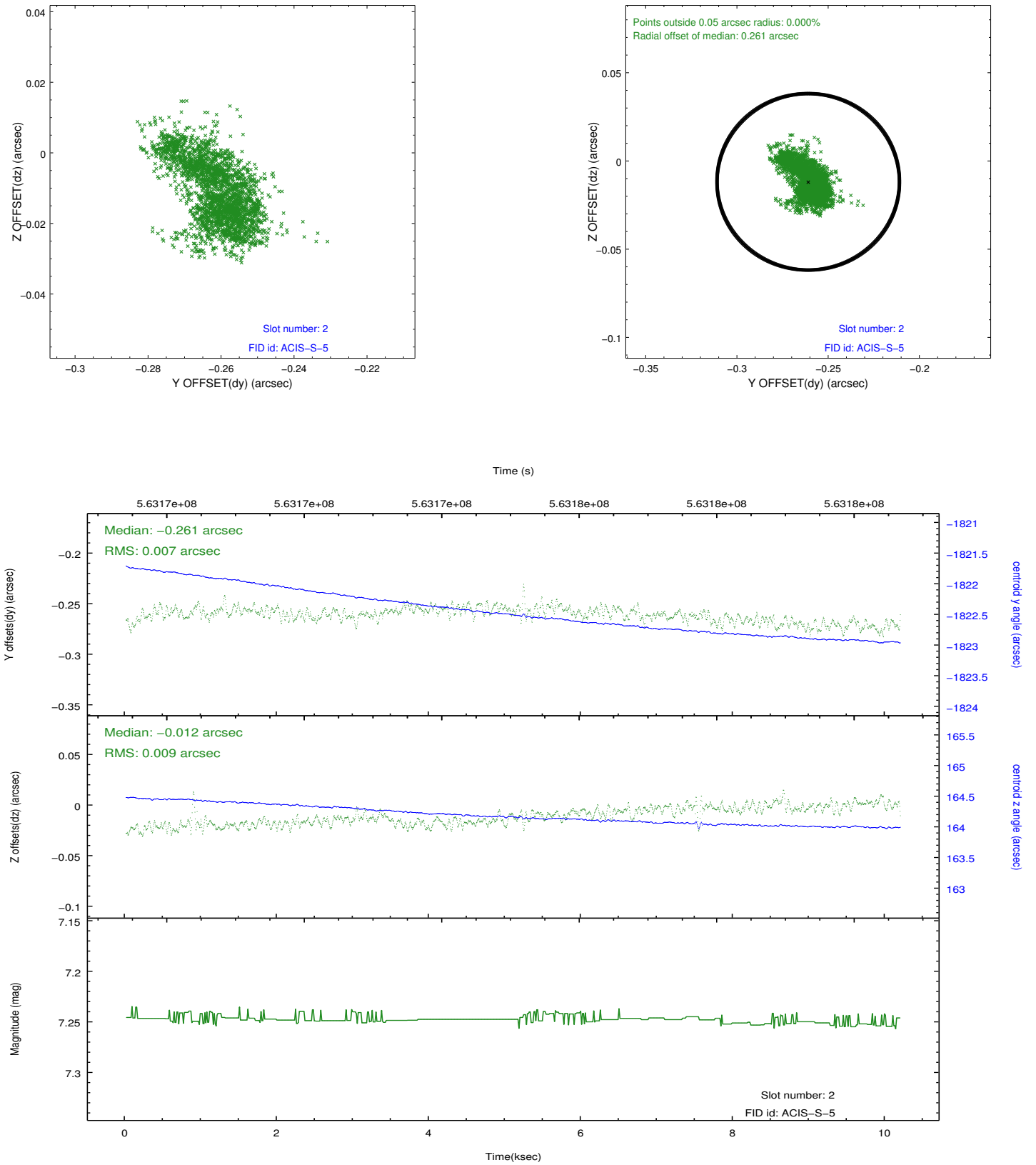
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.06079940033

### A.2 Comments