

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 17637 - L2 Version 1  
Chandra X-Ray Center

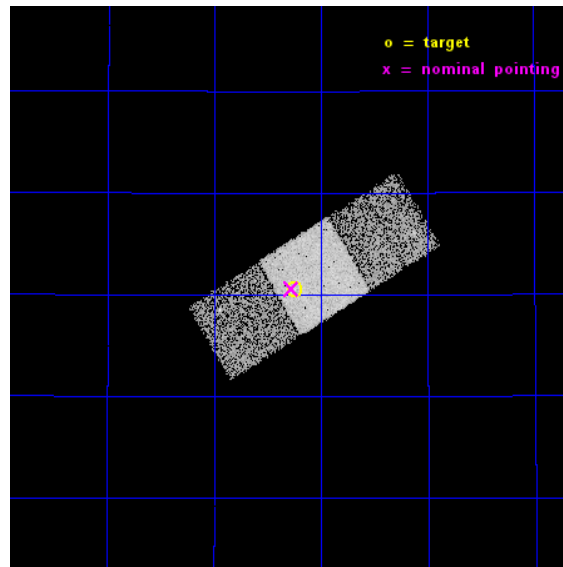
L2 Processing Date : Mar 6 2015

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# 1 Front

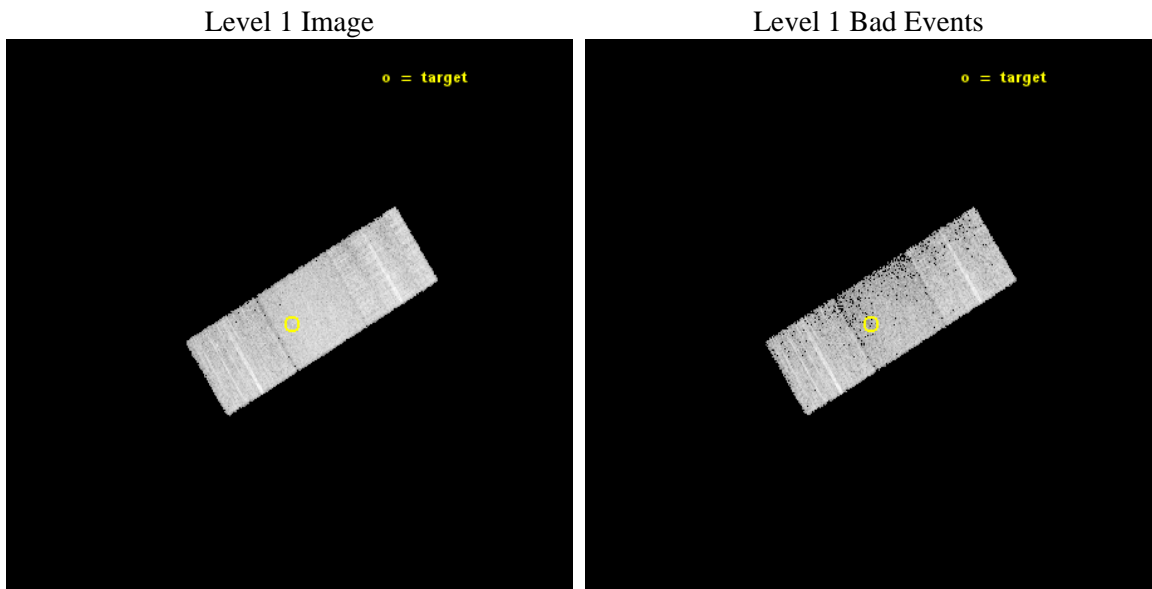
seq_num	401690	Sequence number
obs_id	17637	Observation id
title	Chandra Observation of 'GRB 150301C' / [PFH2005] 622	Proposal ti
observer	Prof. David Burrows	Principal investigator
object	[PFH2005] 622	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	11.312083	Observer's specified target RA [deg]
dec_targ	41.8425	Observer's specified target Dec [deg]
ra_nom	11.319324371669	Nominal RA [deg]
dec_nom	41.843181274278	Nominal Dec [deg]
roll_nom	328.73273554448	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10075.000077605	Sum of GTIs [s]
livetime	9943.3627844842	Livetime [s]
ontime6	10075.000077605	Sum of GTIs [s]
ontime7	10075.000077605	Sum of GTIs [s]
ontime8	10071.859007359	Sum of GTIs [s]
l2events	33034	Number of level 2 events



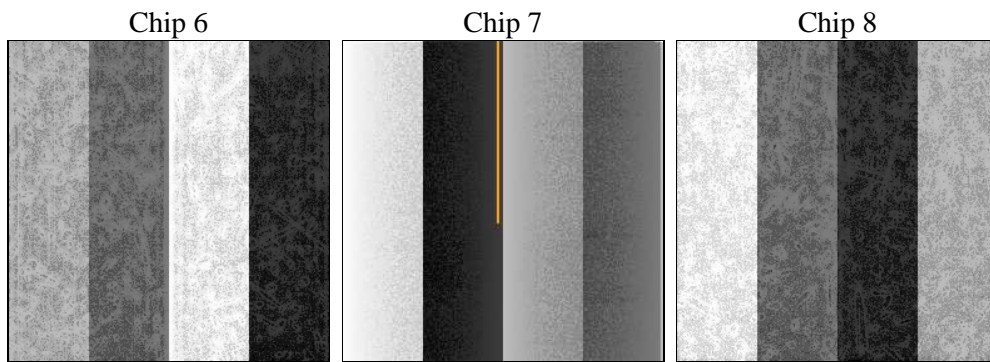
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	10075.000077605	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime6	10075.000077605	Sum of GTIs [s]
date	2015-03-07T03:03:12	Date and time of file creation	ontime7	10075.000077605	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	10071.859007359	Sum of GTIs [s]
			l1events	155486	Number of level 1 events

### 2.1.4 Events

	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	46184	51149	58153
rejected events	40676	27403	42147
rejected %	88%	53%	72%

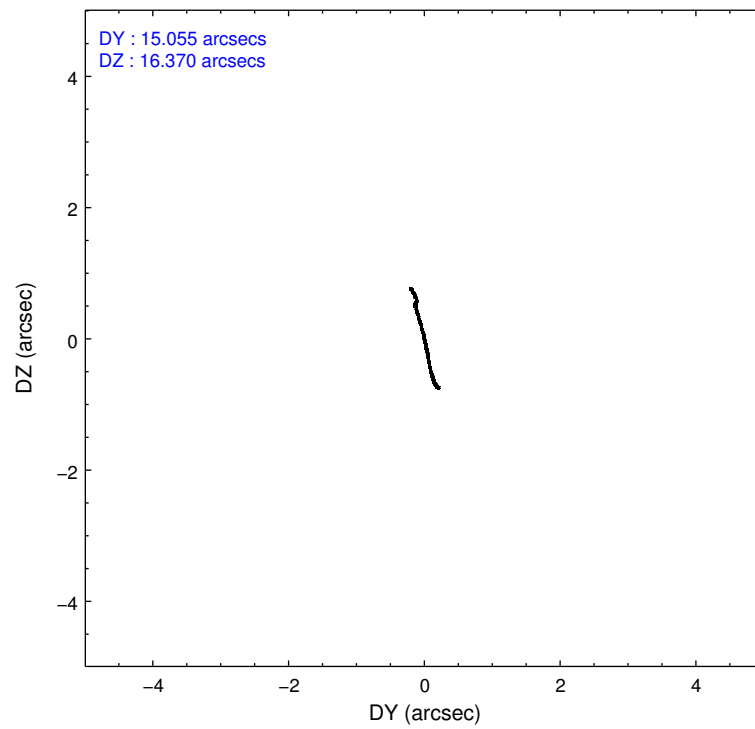
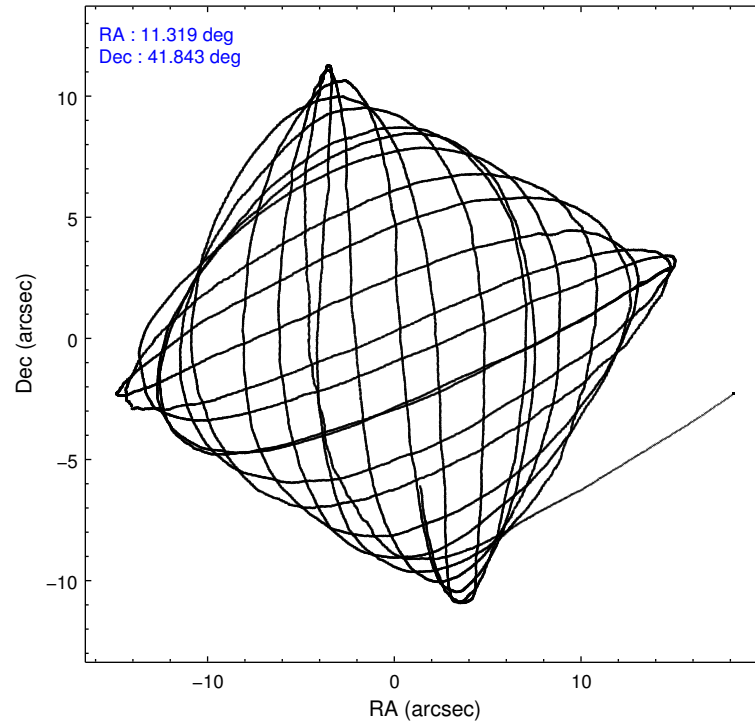
	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	1964	2185	4600
	4%	4%	7%
grade 1 events	17	81	33
	0%	0%	0%
grade 2 events	1285	5046	3833
	2%	9%	6%
grade 3 events	519	1910	1631
	1%	3%	2%
grade 4 events	499	1818	1614
	1%	3%	2%
grade 5 events	1882	5088	2999
	4%	9%	5%
grade 6 events	1242	12795	4330
	2%	25%	7%
grade 7 events	38776	22226	39113
	83%	43%	67%

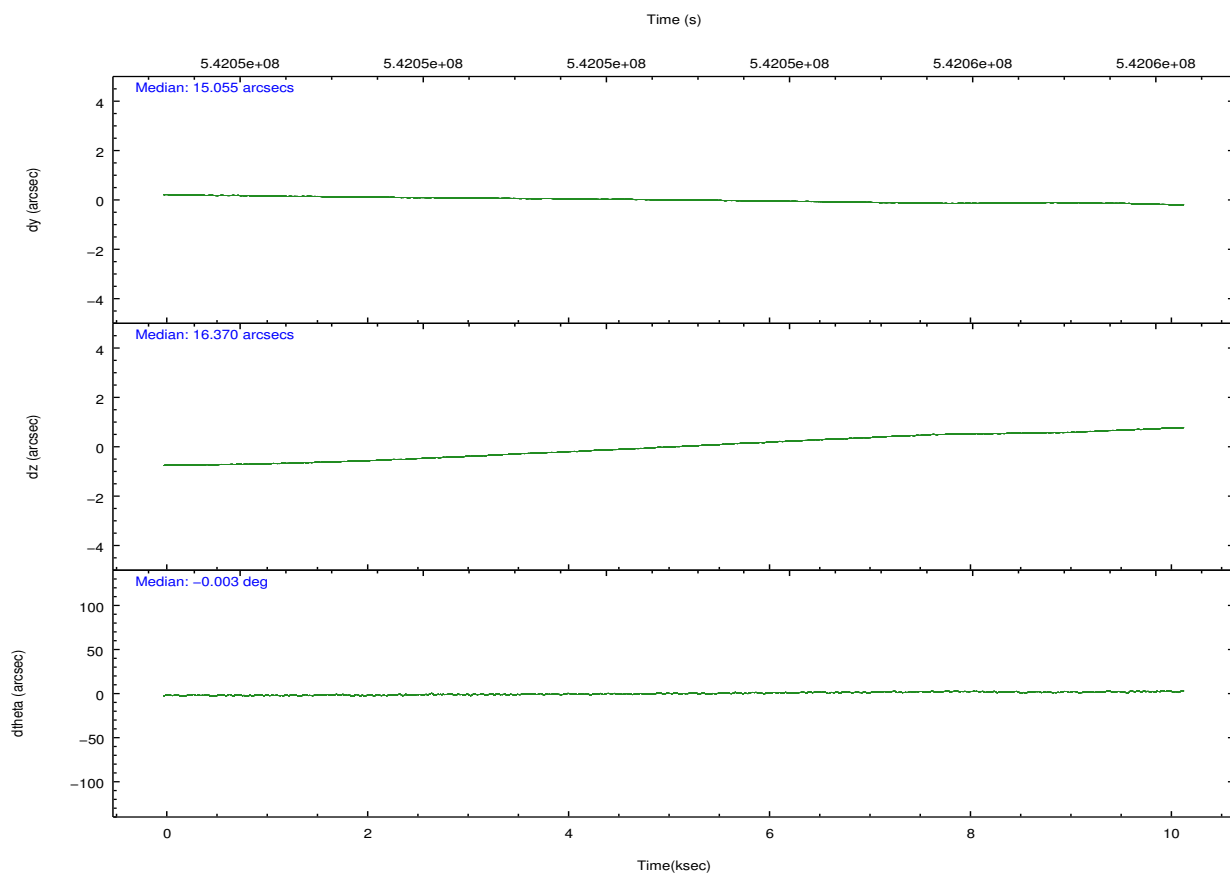
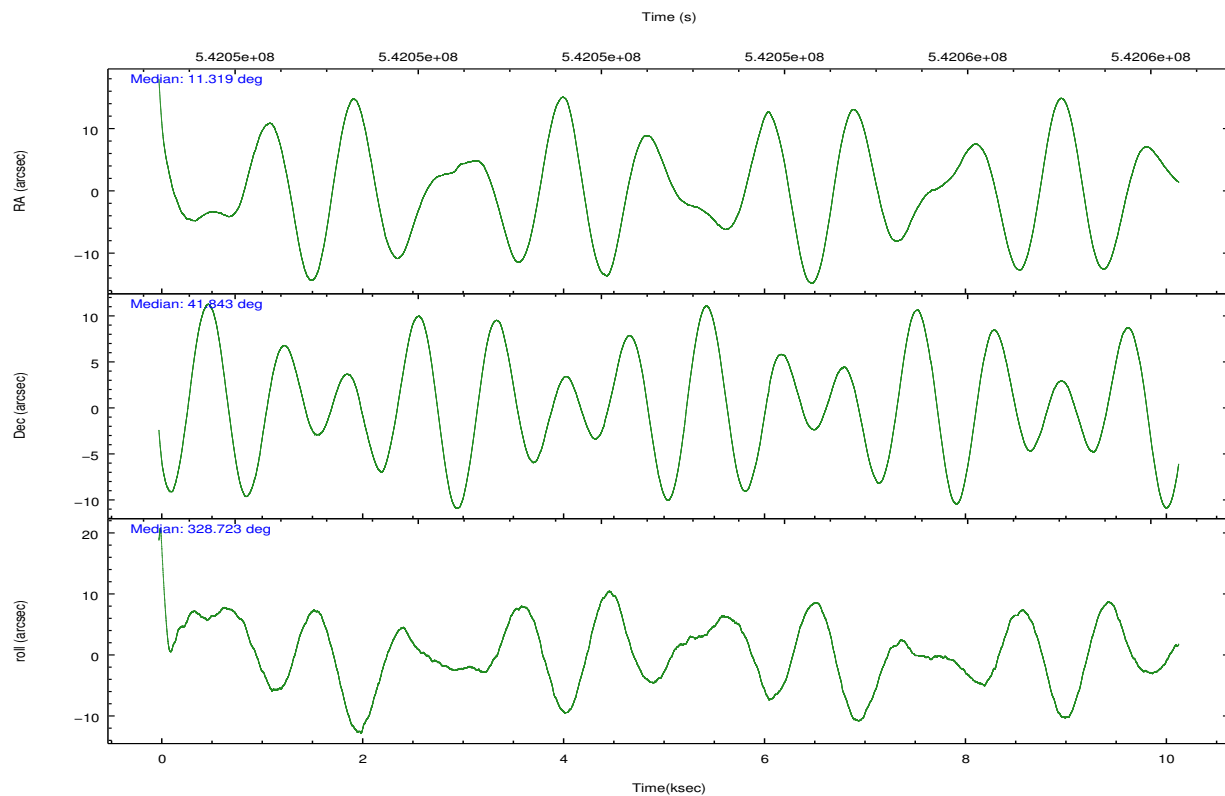


## 2.2 Compared Parameters

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	11.282476	11.31932437166925	CCD I2 on	N	N
[deg] Pointing Dec	41.843474	41.84318127427791	CCD I3 on	N	N
[deg] Pointing Roll	328.600666	328.732735544481	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	542047804.184000	542046571.50169	CCD S5 on	N	N
Observation start date	2015-03-06T16:48:57	2015-03-06T16:29:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	542057804.184000	542058799.75237	On-chip summing requested	N	N
Observation end date	2015-03-06T19:35:37	2015-03-06T19:53:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



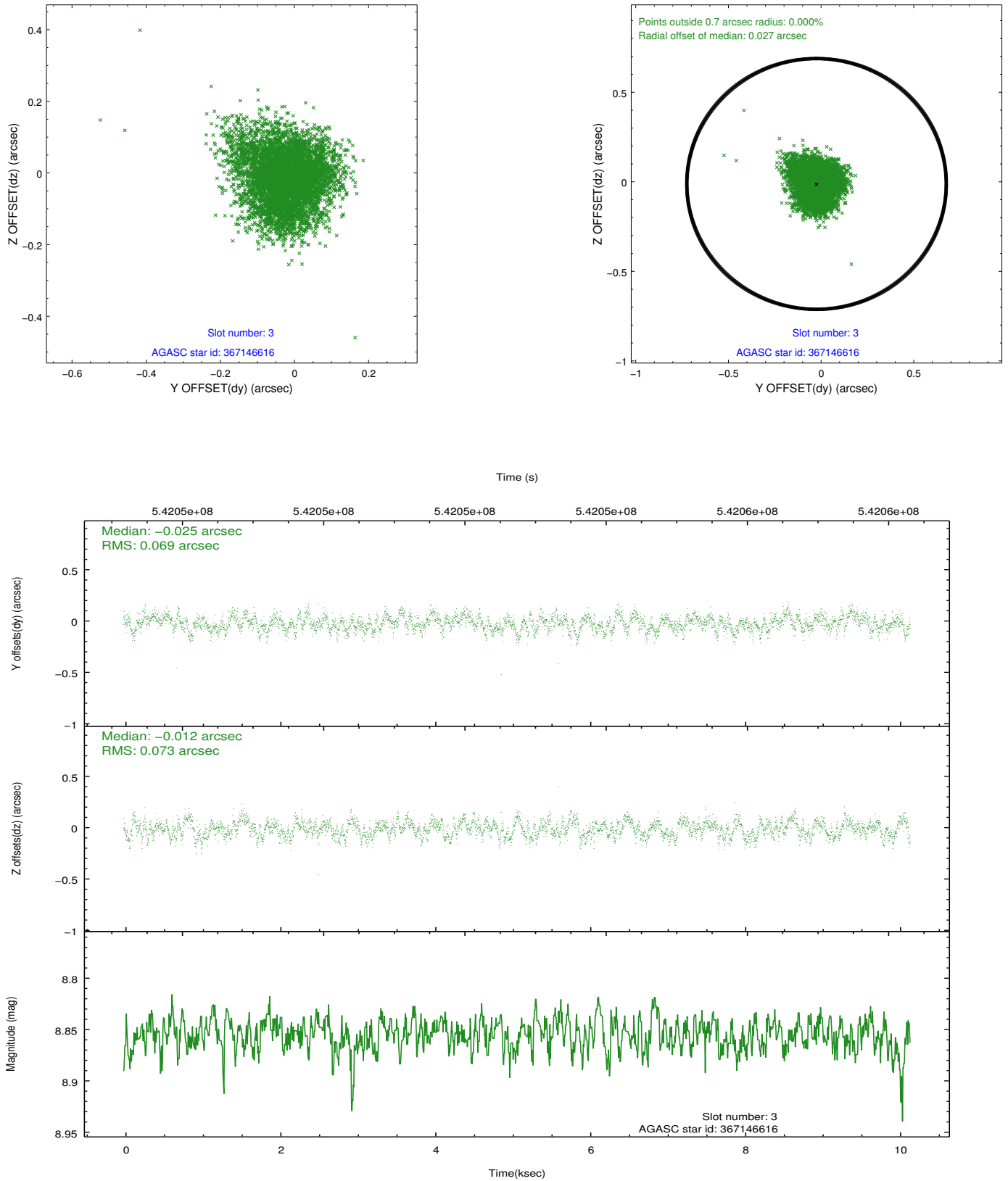


### Slot Statistics

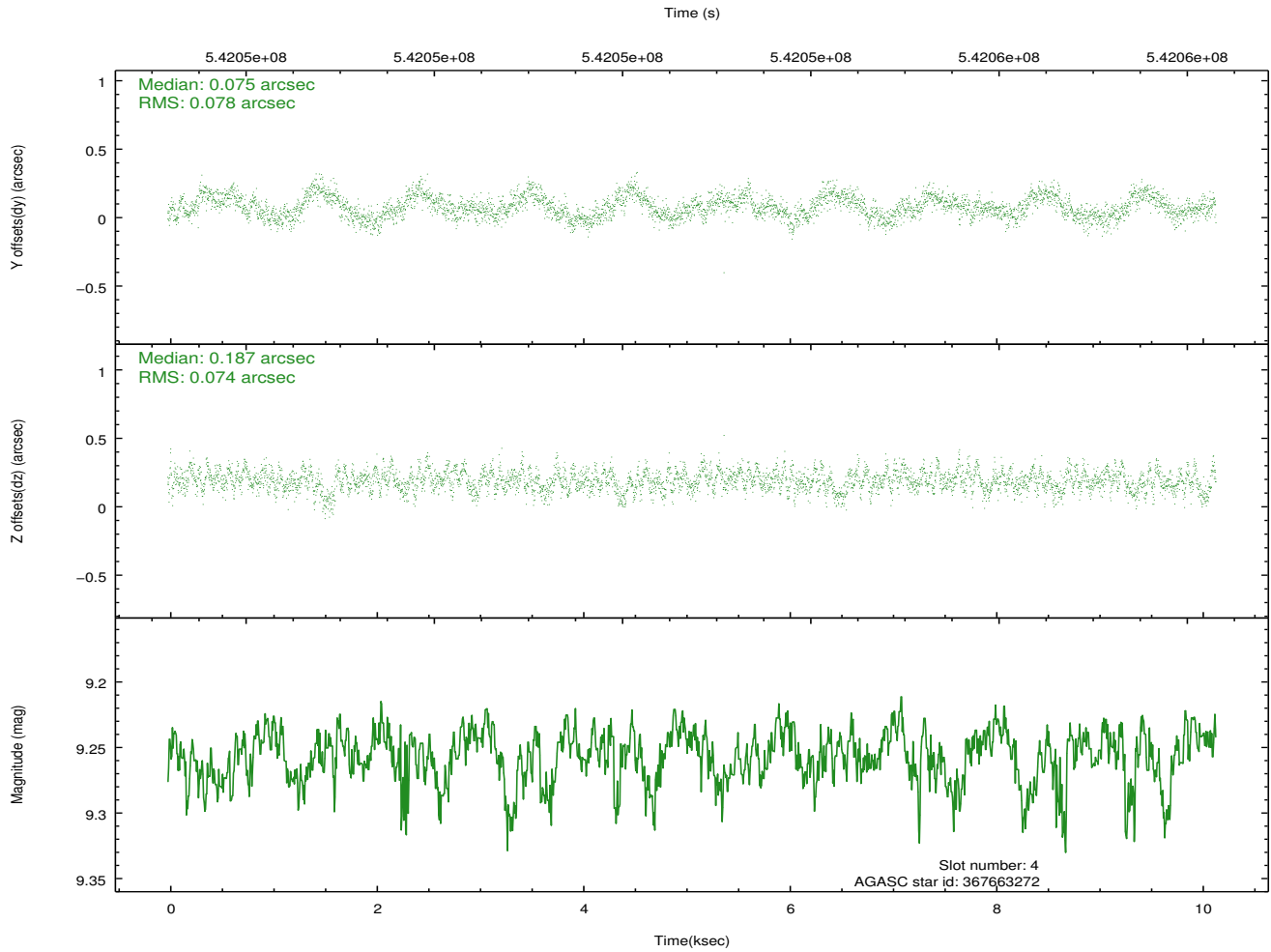
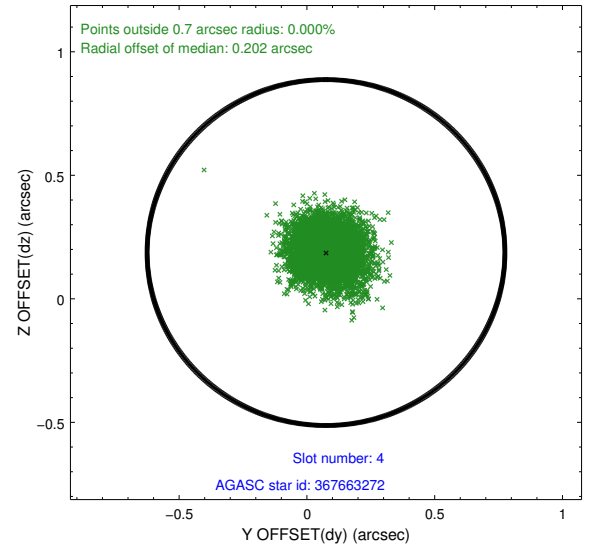
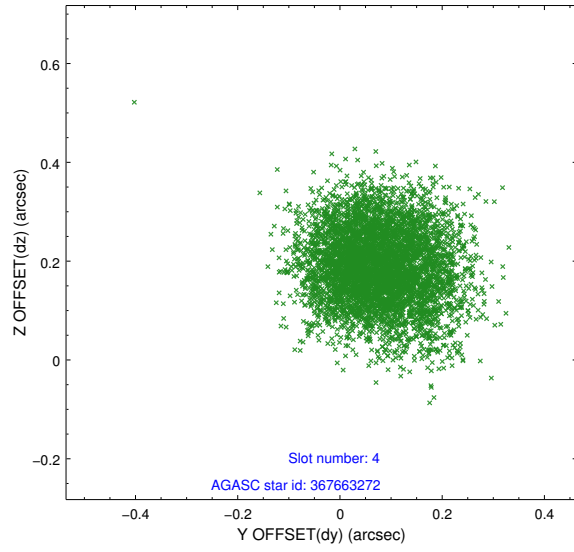
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.15	2476	-0.010	-0.068	0.019	0.026	0.000000	0.000000	-768.05	-1737.78
1	FID		ACIS-S-5	7.27	2475	-0.169	-0.007	0.022	0.030	0.000000	0.000000	-1821.55	163.73
2	FID		ACIS-S-6	7.38	2476	0.152	0.081	0.011	0.021	0.000000	0.000000	393.18	808.28
3	GUIDE	used	367146616	8.85	4949	-0.025	-0.012	0.107	0.168	11.418645	41.190163	1540.69	-1814.52
4	GUIDE	used	367663272	9.26	4948	0.075	0.187	0.116	0.184	10.656279	41.699429	-1169.55	-1315.52
5	GUIDE	used	367667384	8.65	4949	-0.080	-0.157	0.106	0.169	12.077552	41.596878	2284.32	366.18
6	GUIDE	used	367670520	9.20	4946	-0.153	0.059	0.242	0.359	11.265516	42.371946	-1029.23	1600.51
7	GUIDE	used	367674552	8.85	4951	0.209	-0.066	0.129	0.196	11.016238	41.570845	-100.56	-1209.85

## 2.4 Star Slots

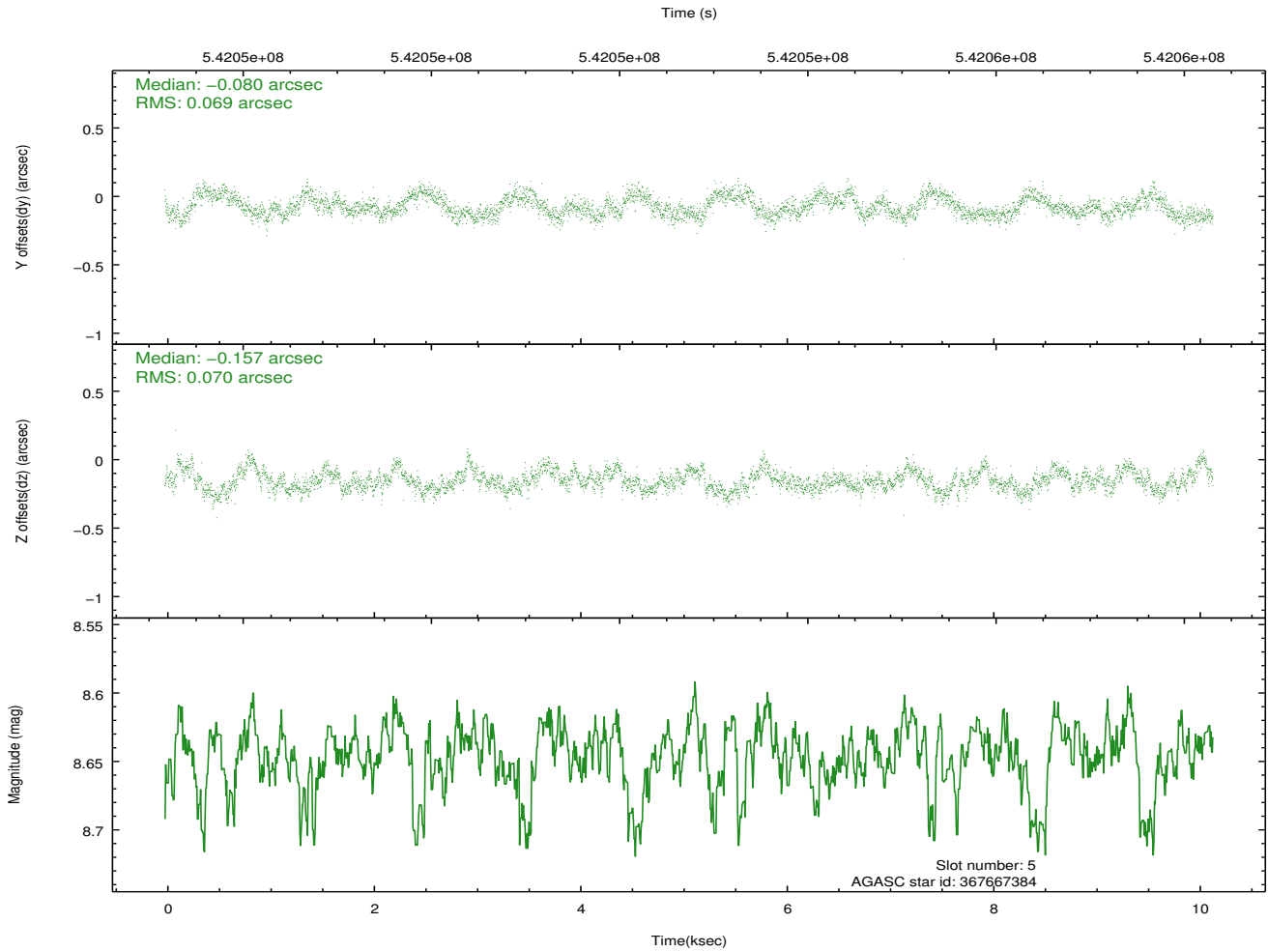
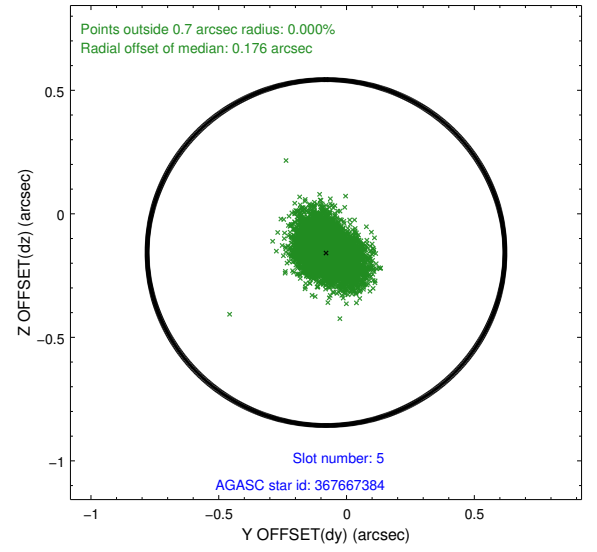
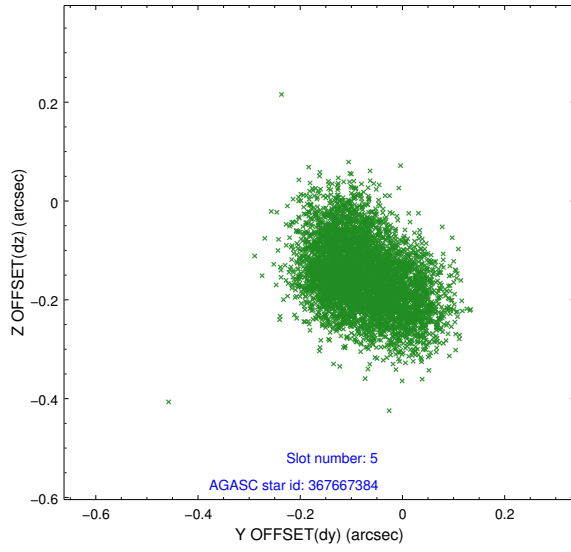
### 2.4.1 Slot 3



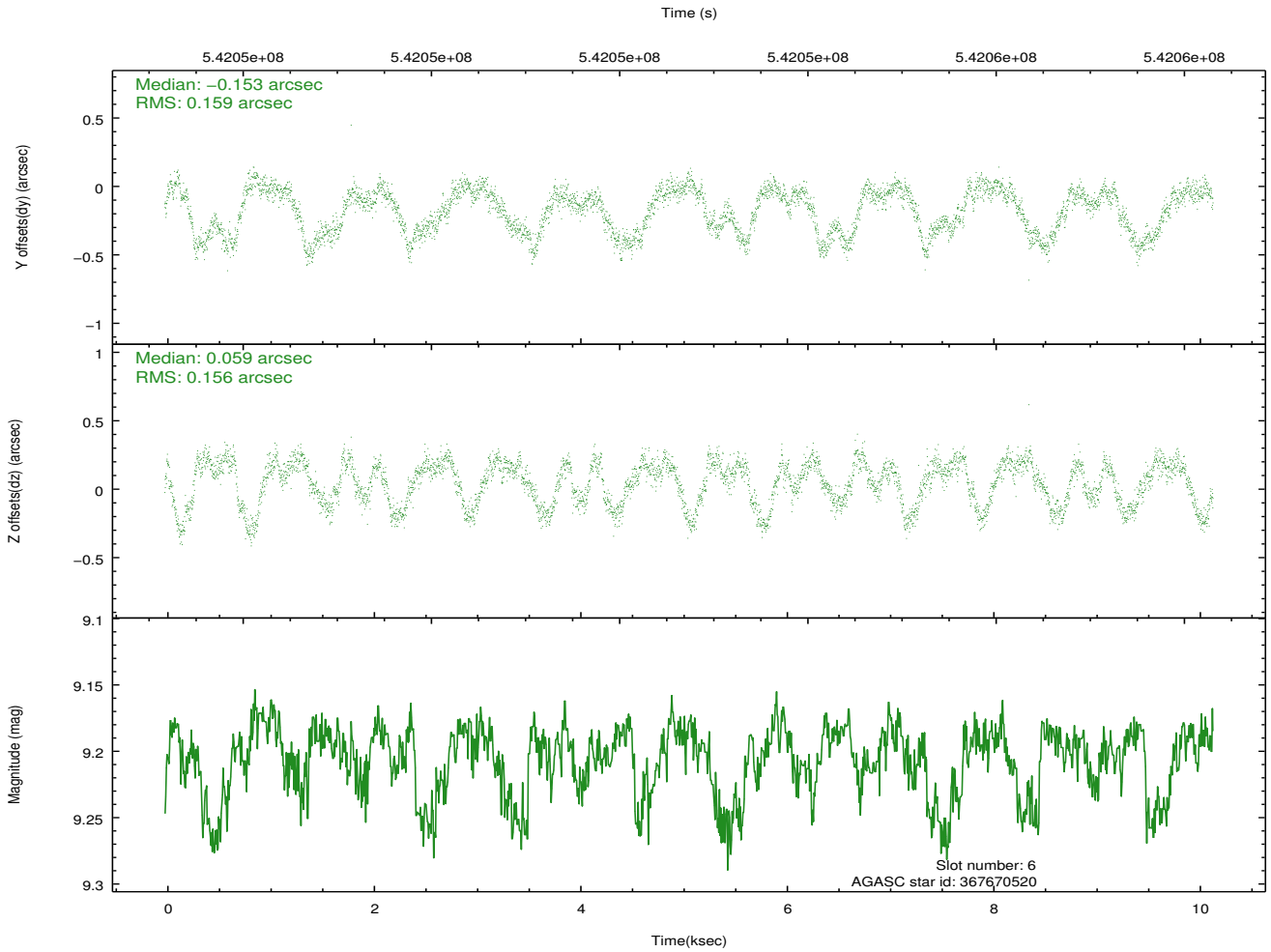
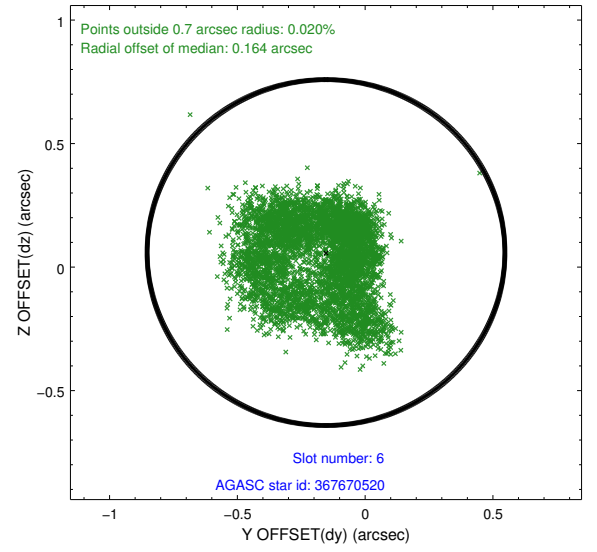
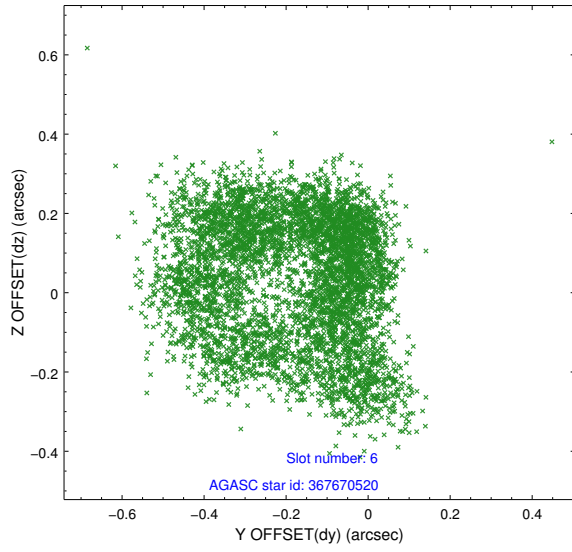
## 2.4.2 Slot 4



### 2.4.3 Slot 5

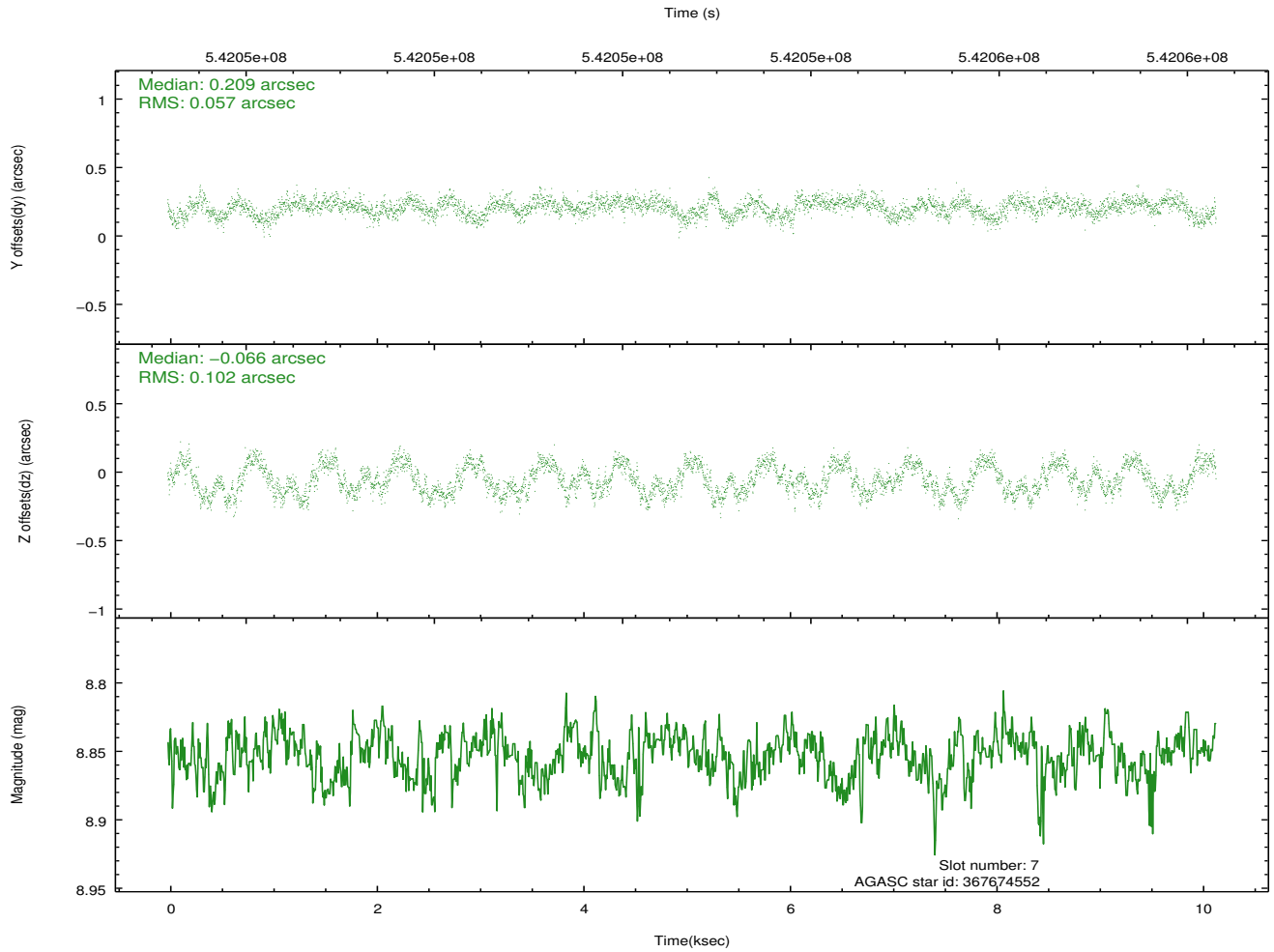
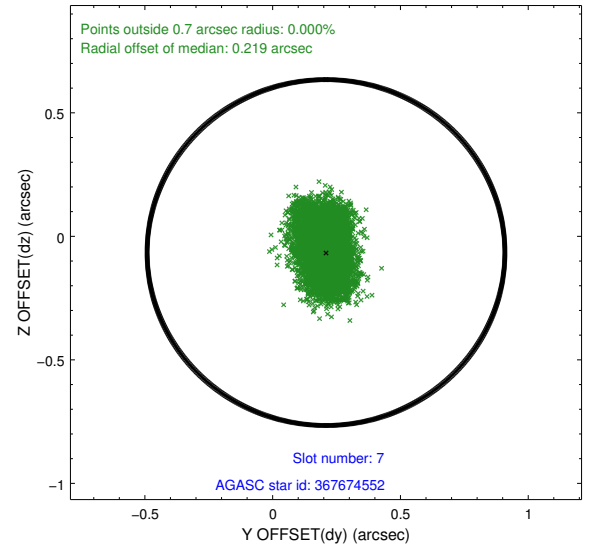
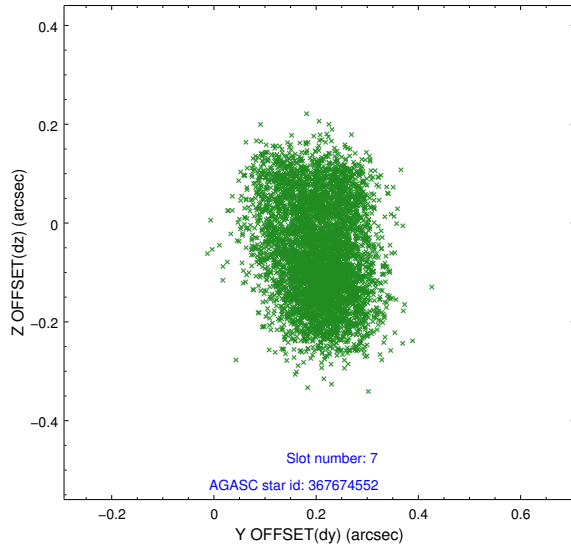


## 2.4.4 Slot 6



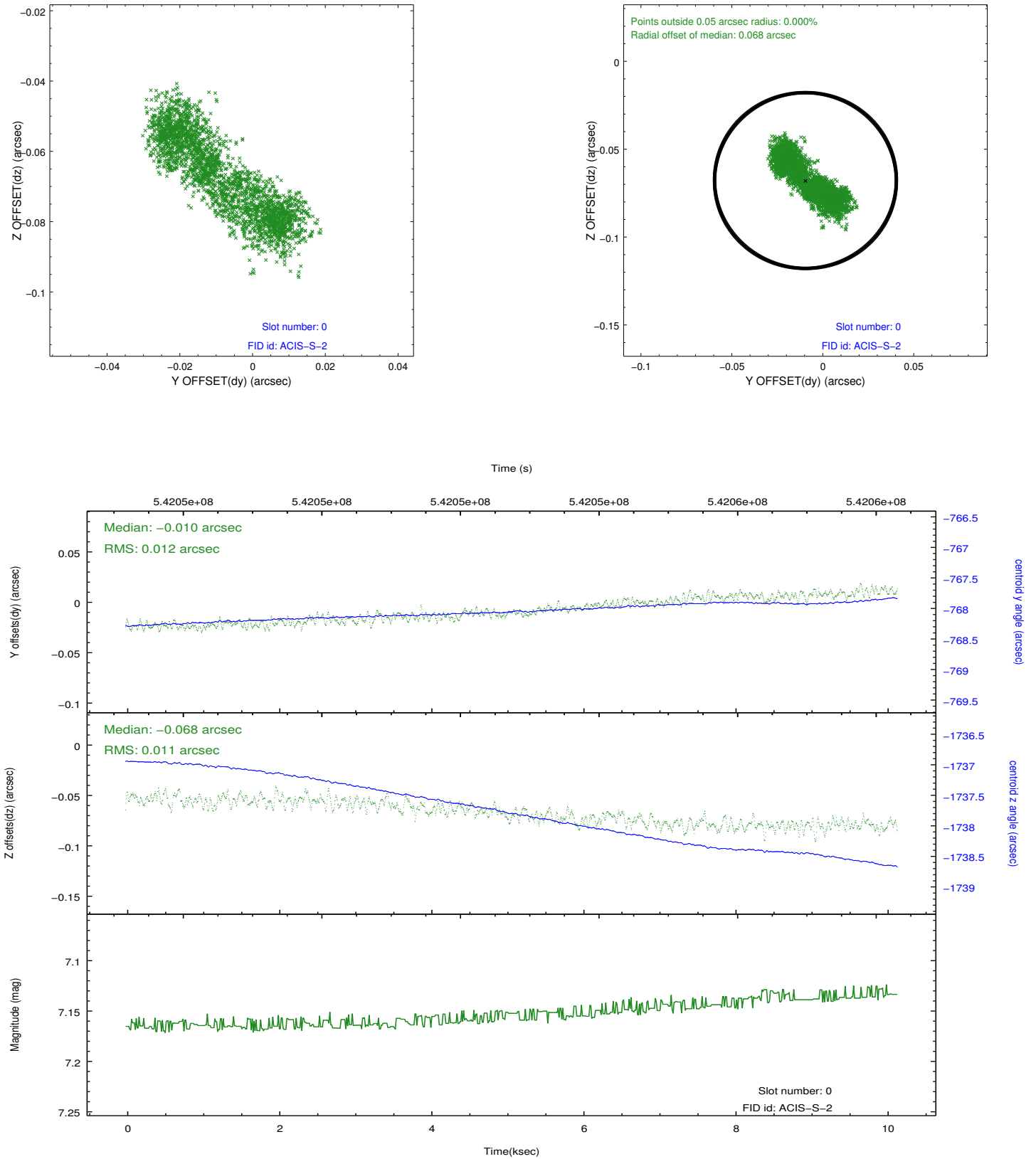


## 2.4.5 Slot 7

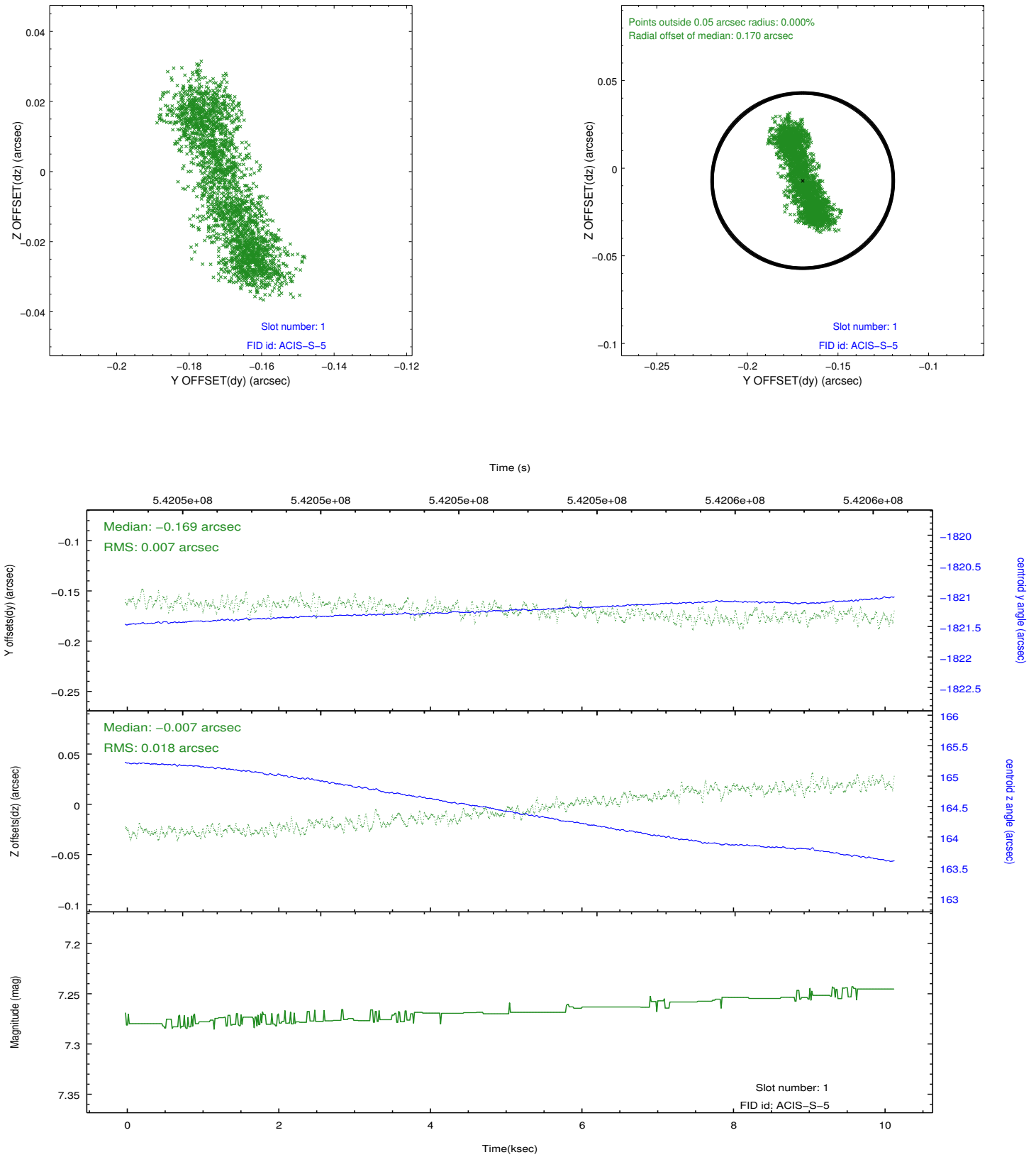


## 2.5 FID Slots

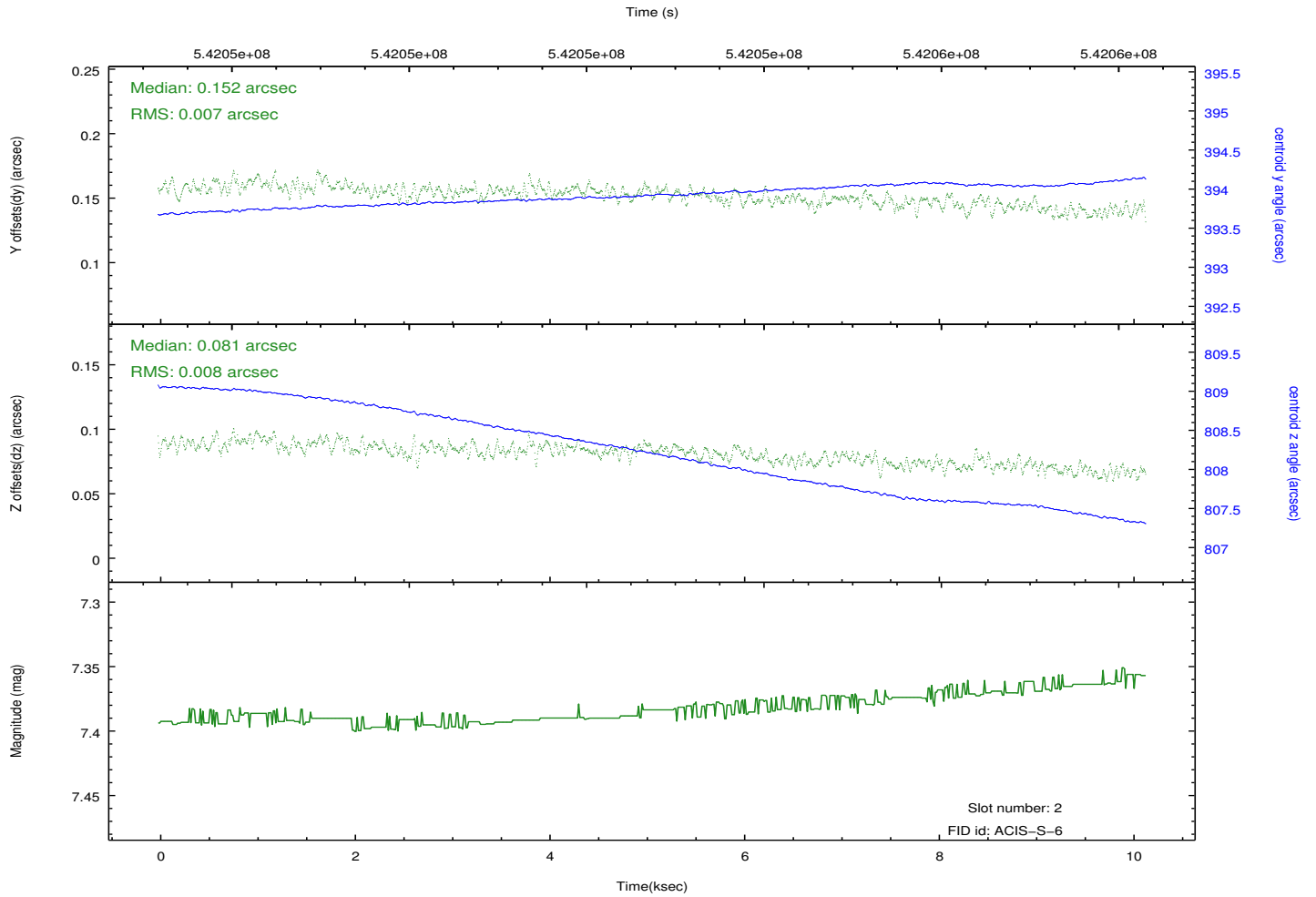
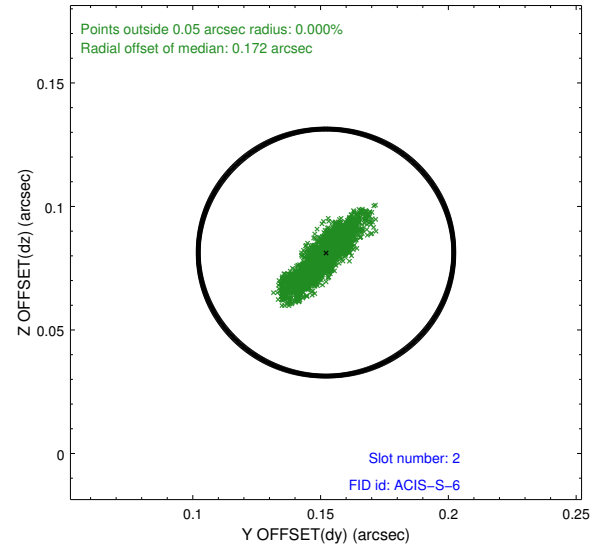
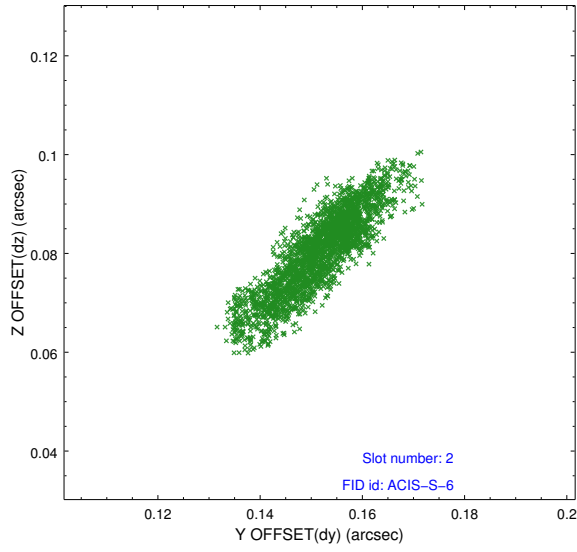
### 2.5.1 Slot 0



## 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)	2015.03.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.075000077605

### A.2 Comments