

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13237 - L2 Version 2  
Chandra X-Ray Center

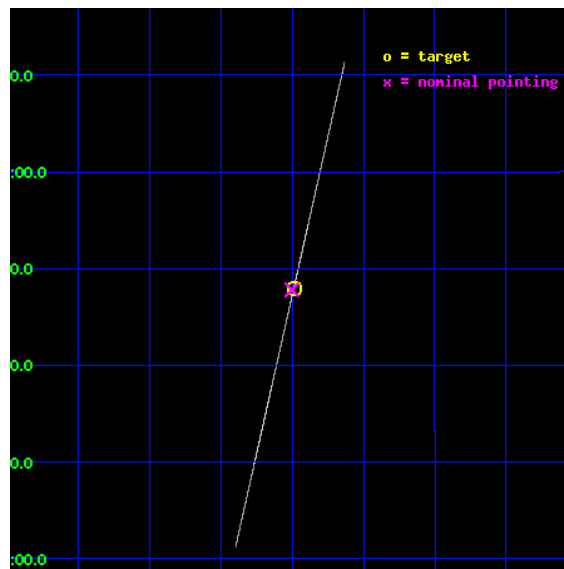
L2 Processing Date : Feb 4 2012

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# 1 Front

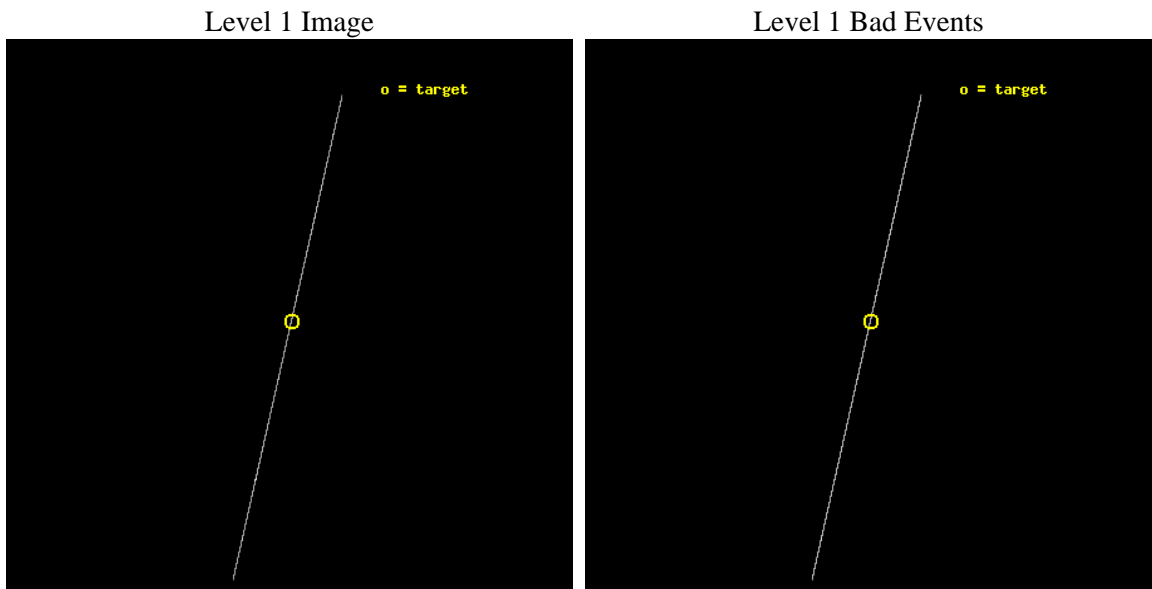
seq_num	401295	Sequence number
obs_id	13237	Observation id
title	Searching for the pulsar powering the new TeV binary HESS J0632+057	&#160
observer	Prof Diego Torres	Principal investigator
object	HESS J0632+057	Source name
ra_targ	98.247083	Observer's specified target RA [deg]
dec_targ	5.800278	Observer's specified target Dec [deg]
ra_nom	98.250506851944	Nominal RA [deg]
dec_nom	5.7968162186065	Nominal Dec [deg]
roll_nom	282.80667198887	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40077.25	Sum of GTIs [s]
livetime	39920.698242188	Livetime [s]
ontime4	40077.25	Sum of GTIs [s]
ontime5	40077.25	Sum of GTIs [s]
ontime6	40077.25	Sum of GTIs [s]
ontime7	40077.25	Sum of GTIs [s]
ontime8	40077.25	Sum of GTIs [s]
ontime9	40077.25	Sum of GTIs [s]
l2events	573713	Number of level 2 events



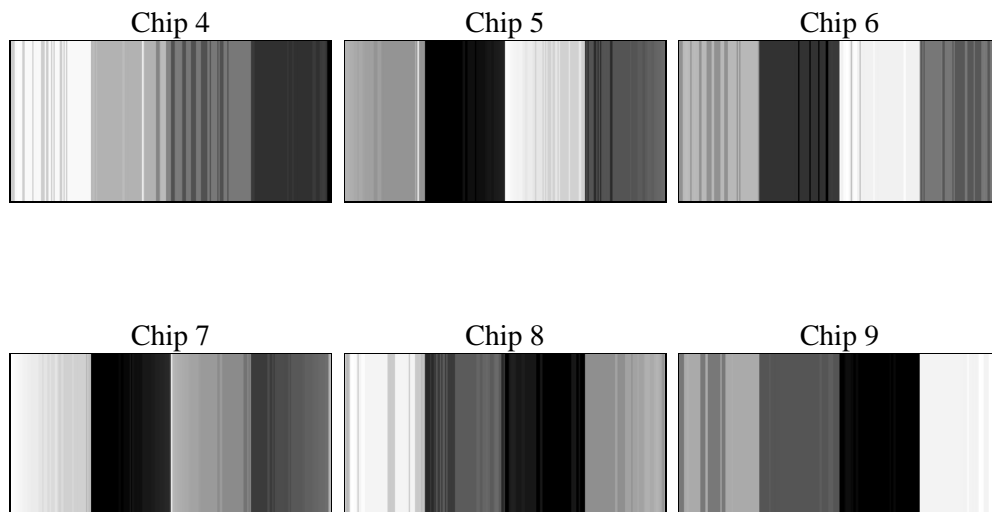
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	40077.25	Sum of GTIs [s]
caldbver	4.4.7	&#160	ontime4	40077.25	Sum of GTIs [s]
date	2012-02-04T07:05:35	Date and time of file creation	ontime5	40077.25	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	40077.25	Sum of GTIs [s]
			ontime7	40077.25	Sum of GTIs [s]
			ontime8	40077.25	Sum of GTIs [s]
			ontime9	40077.25	Sum of GTIs [s]
			l1events	3946097	Number of level 1 events

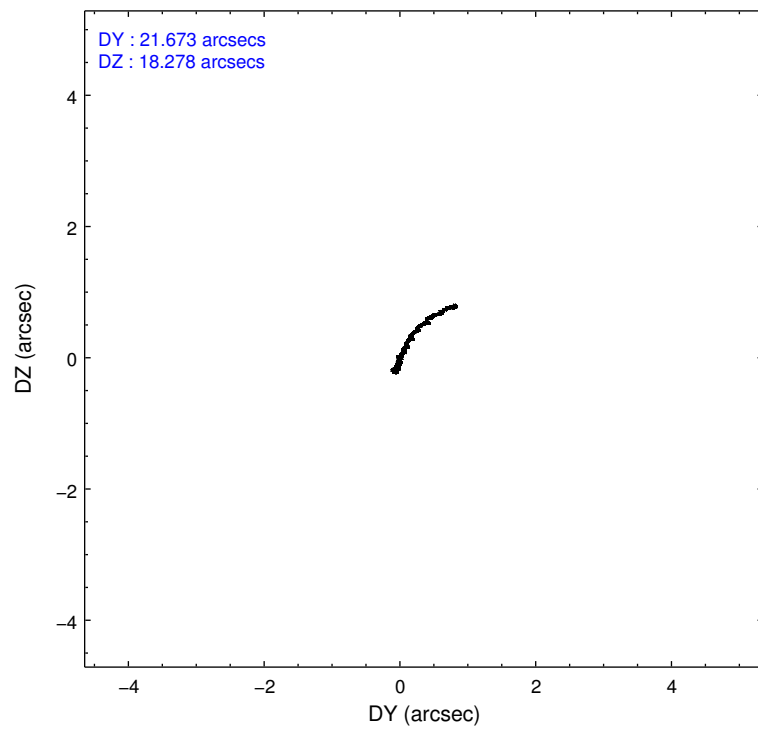
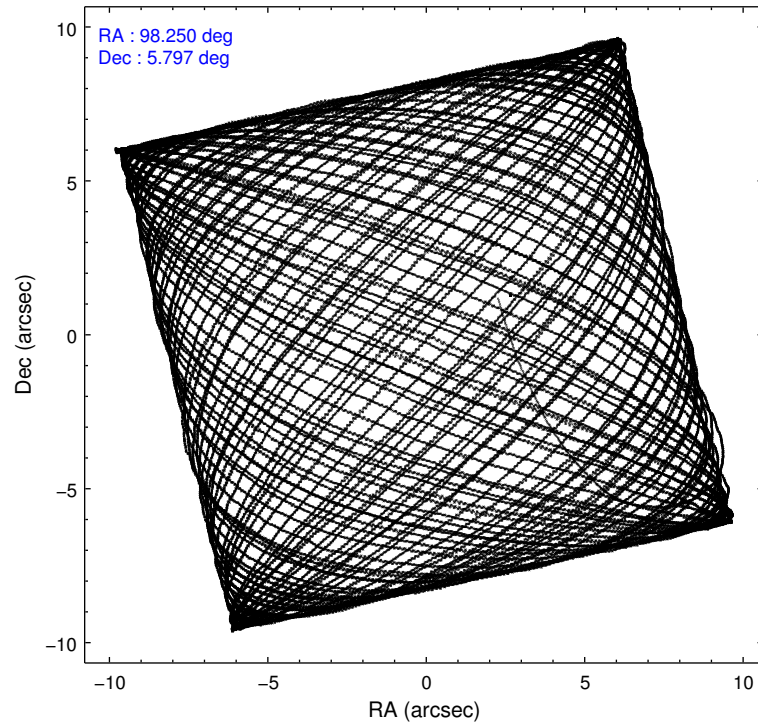
### 2.1.4 Events

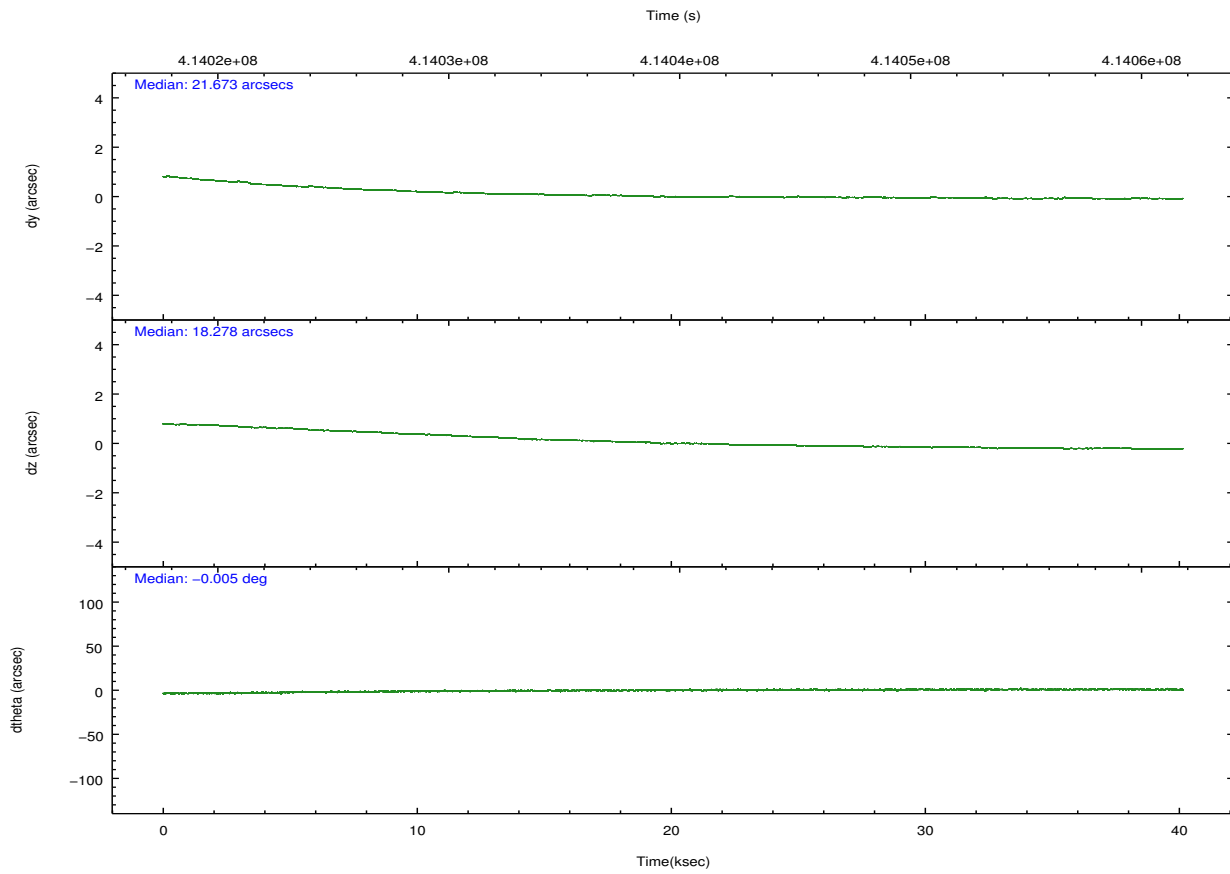
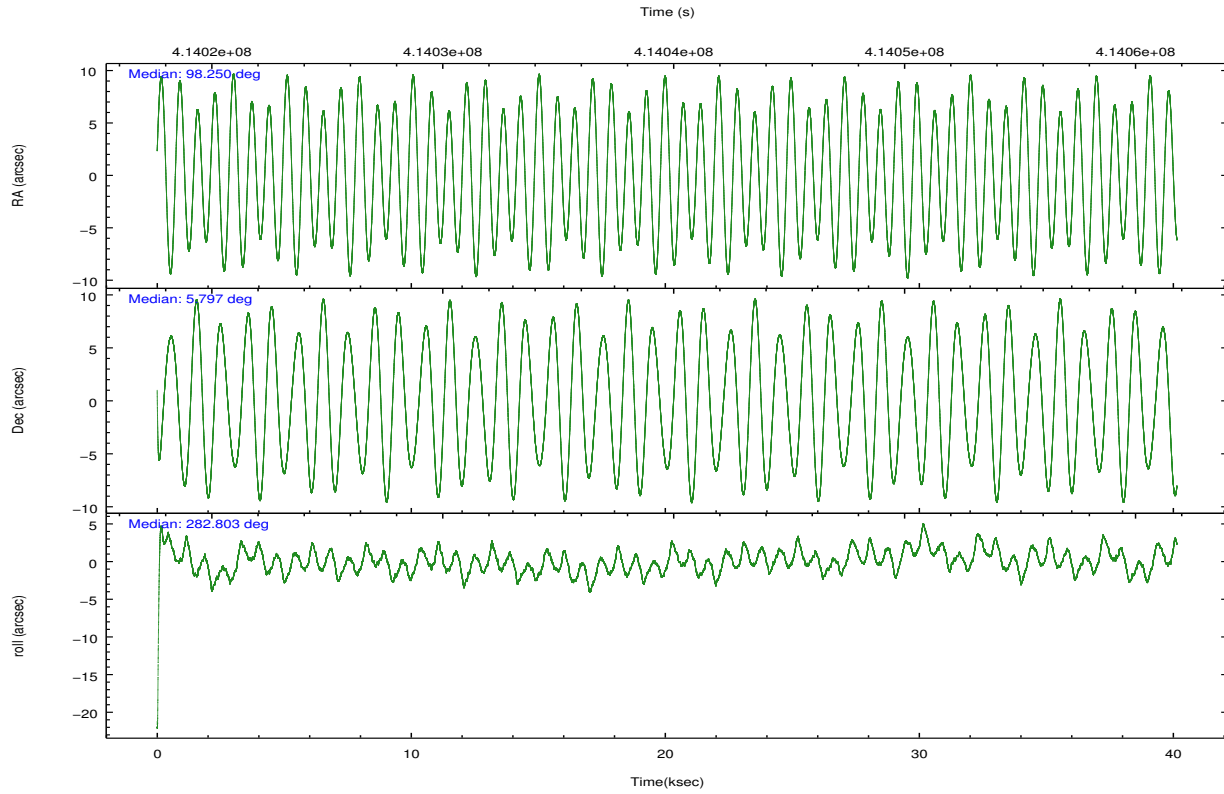
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	549489	975903	512766	551945	805541	550453	grade 0 events	6523	241837	5957	13781	29189	7199
rejected events	498439	404294	461734	372360	672989	496021		1%	24%	1%	2%	3%	1%
rejected %	90%	41%	90%	67%	83%	90%	grade 1 events	359	635	280	525	587	309
								0%	0%	0%	0%	0%	0%
							grade 2 events	17926	181144	18414	47637	38603	19701
								3%	18%	3%	8%	4%	3%
							grade 3 events	7607	5834	7138	10043	14762	6650
								1%	0%	1%	1%	1%	1%
							grade 4 events	7731	5522	6640	9751	14234	7199
								1%	0%	1%	1%	1%	1%
							grade 5 events	14110	33189	14227	36346	21138	15823
								2%	3%	2%	6%	2%	2%
							grade 6 events	11264	137327	12890	98398	35776	13691
								2%	14%	2%	17%	4%	2%
							grade 7 events	483969	370415	447220	335464	651252	479881
								88%	37%	87%	60%	80%	87%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	98.231545	98.25050685194407	CCD I2 on	N	N
[deg] Pointing Dec	5.816616	5.79681621860645	CCD I3 on	N	N
[deg] Pointing Roll	282.651970	282.8066719888689	CCD S0 on	O2	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	414019790.184000	414018586.55614	CCD S5 on	O1	Y
Observation start date	2011-02-13T21:28:44	2011-02-13T21:09:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	414059790.184000	414060318.4083	On-chip summing requested	N	N
Observation end date	2011-02-14T08:35:24	2011-02-14T08:45:18	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

## 2.3 Aspect



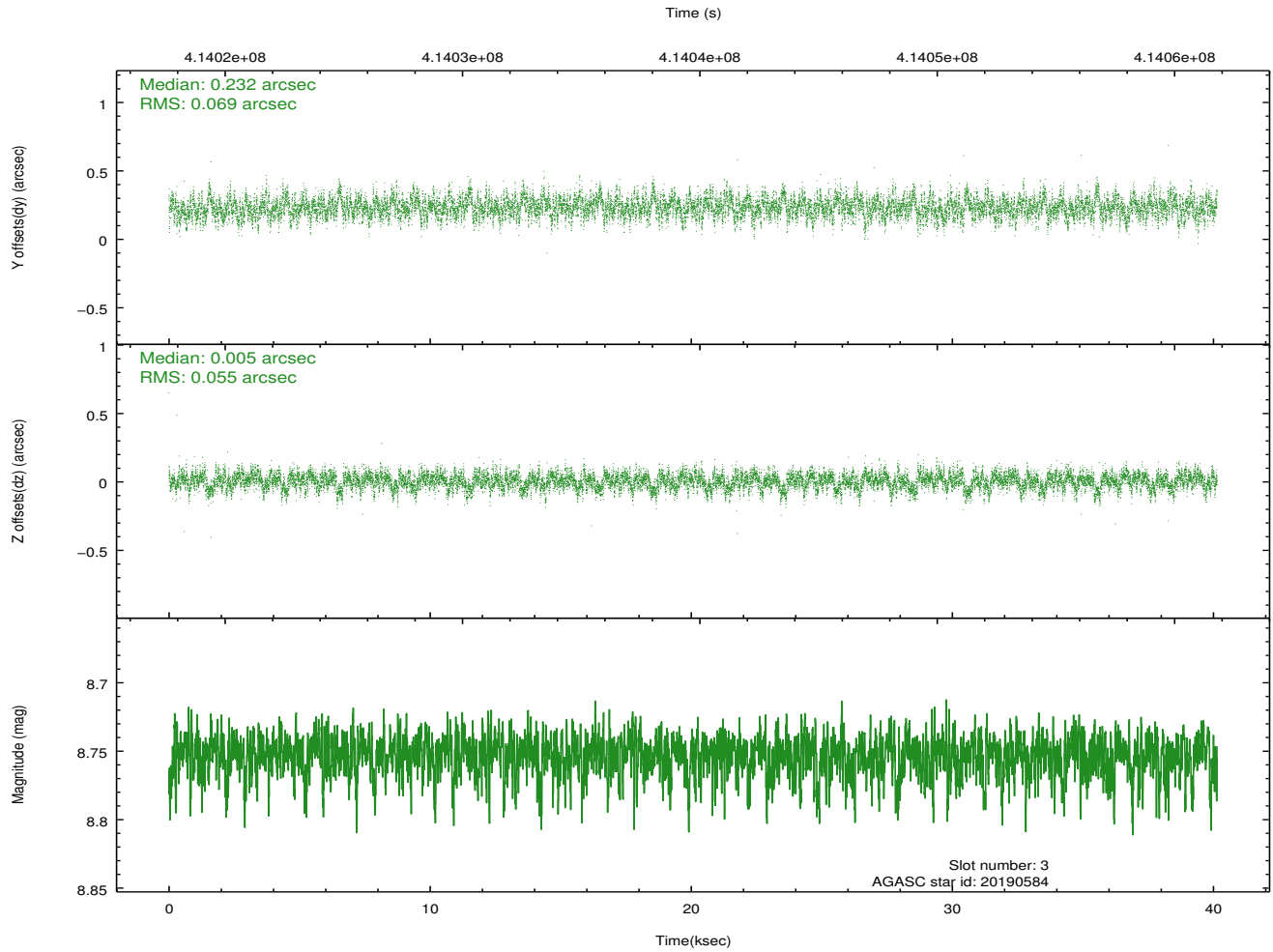
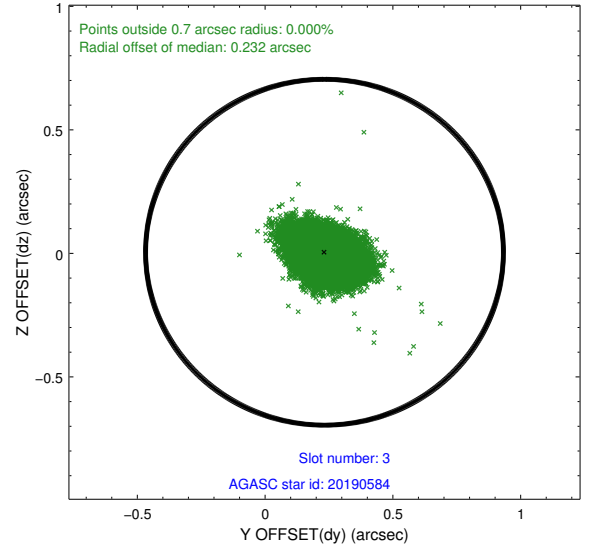
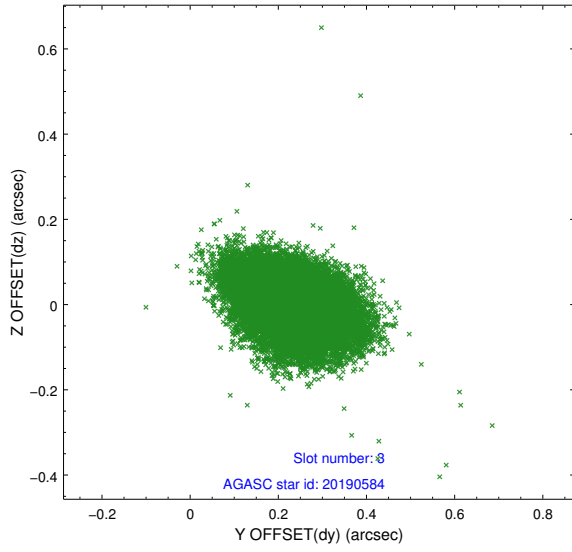


### Slot Statistics

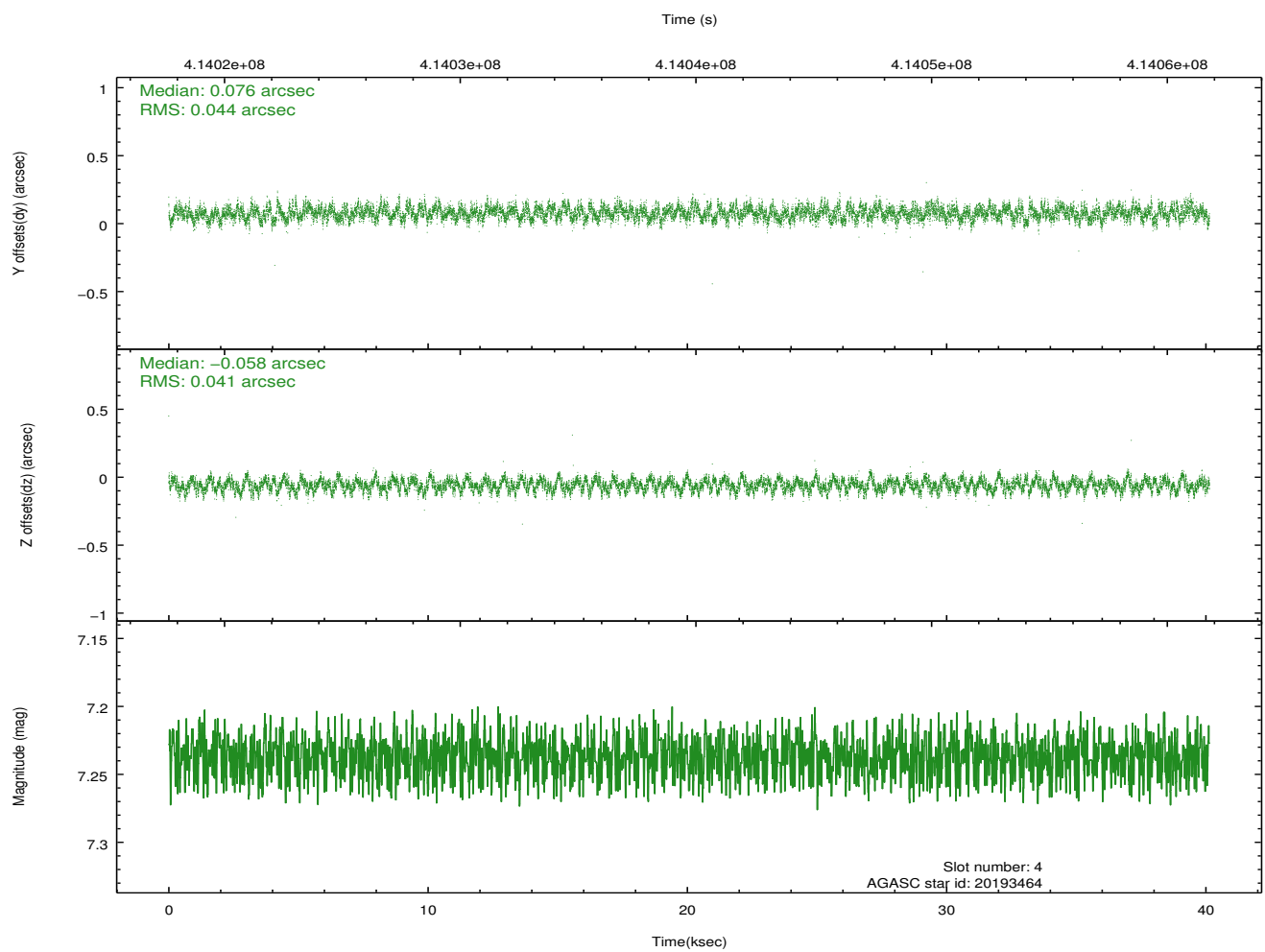
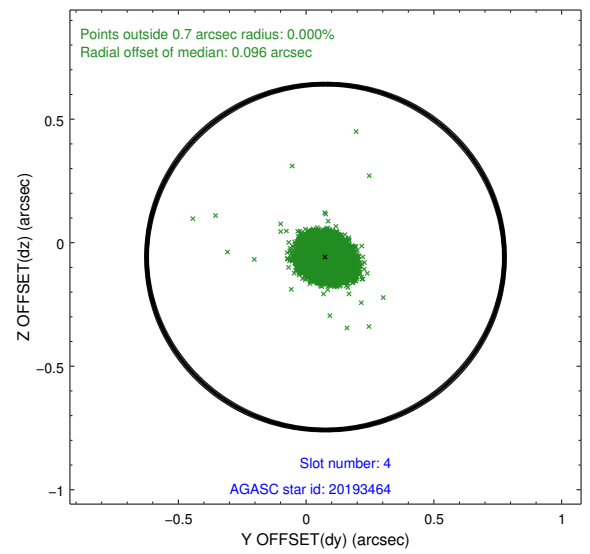
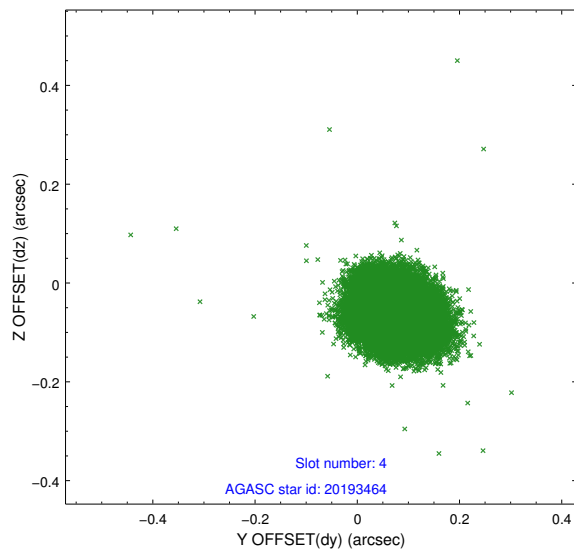
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.01	9792	0.053	-0.011	0.008	0.017	0.000000	0.000000	921.13	-1735.52
1	FID	ACIS-S-4	7.02	9792	0.139	-0.013	0.015	0.036	0.000000	0.000000	2138.64	168.61
2	FID	ACIS-S-5	7.05	9792	-0.220	0.037	0.015	0.030	0.000000	0.000000	-1827.99	162.29
3	GUIDE	20190584	8.75	19575	0.232	0.005	0.091	0.155	98.059977	5.145500	2223.87	-1129.35
4	GUIDE	20193464	7.24	19580	0.076	-0.058	0.065	0.100	98.229775	5.396674	1474.34	-337.16
5	GUIDE	20727600	6.80	19583	-0.038	-0.027	0.068	0.110	97.637242	5.866998	-643.62	-2036.55
6	GUIDE	20193288	7.10	19583	-0.266	-0.129	0.077	0.120	98.869961	5.512572	1567.84	1992.77
7	GUIDE	20714064	9.28	19564	-0.012	0.212	0.122	0.188	97.827370	6.379135	-2292.59	-966.99

## 2.4 Star Slots

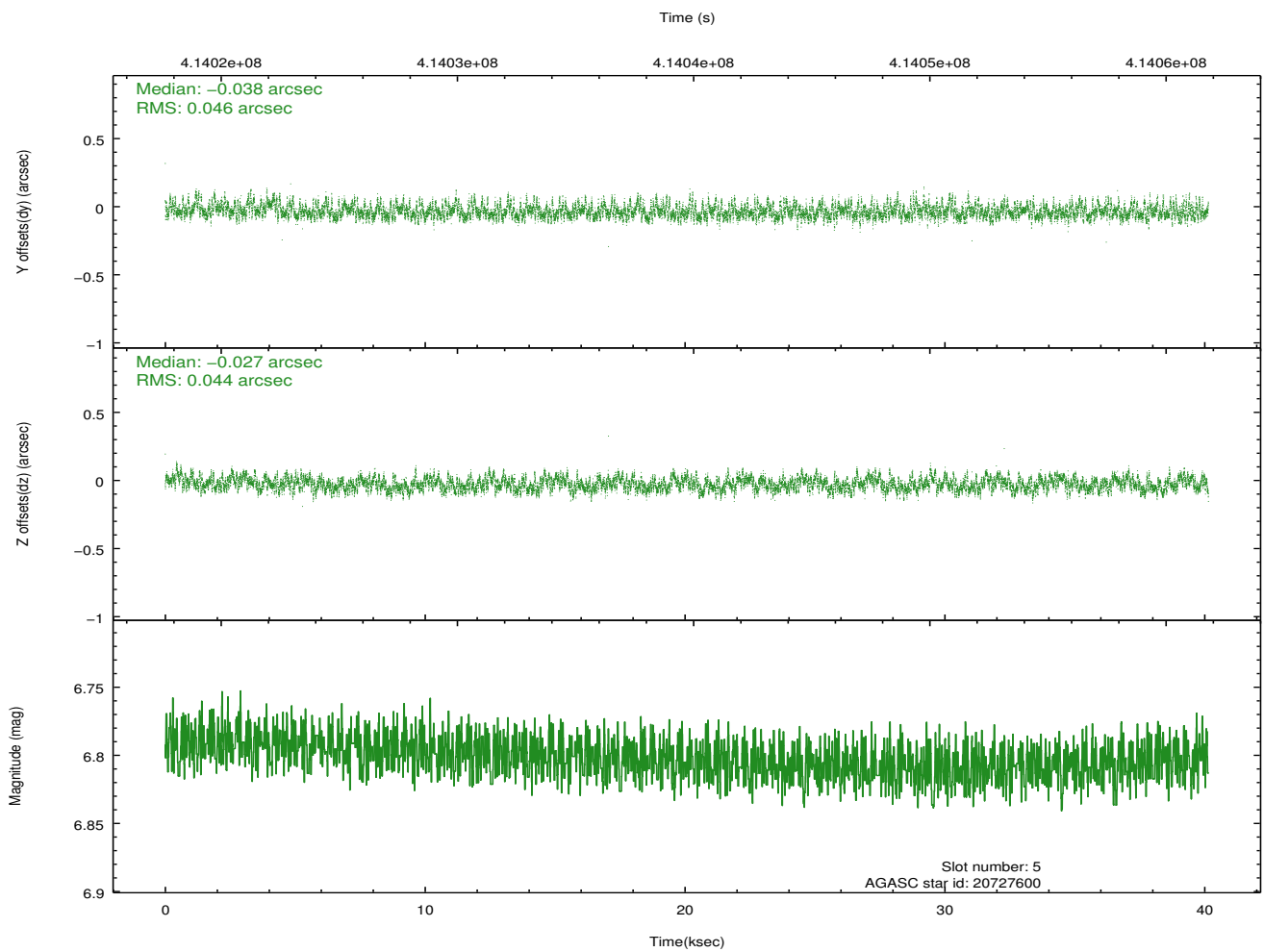
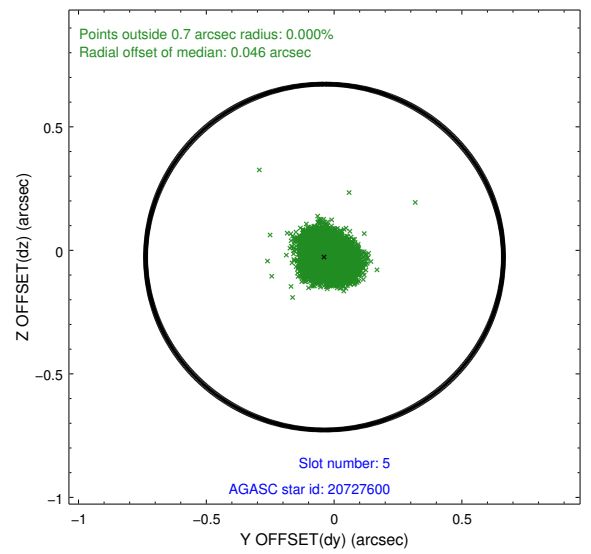
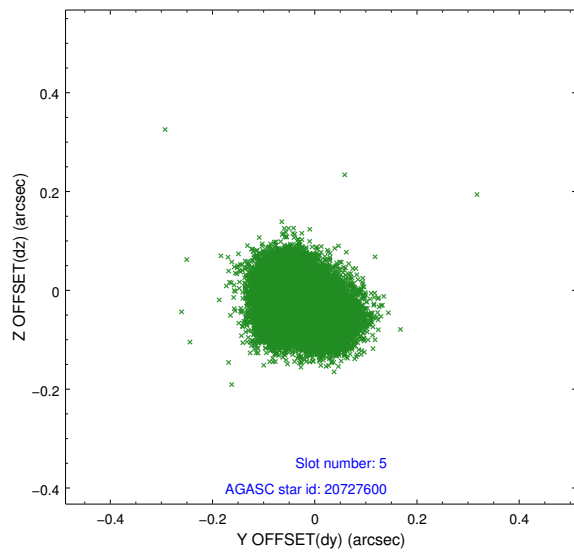
### 2.4.1 Slot 3



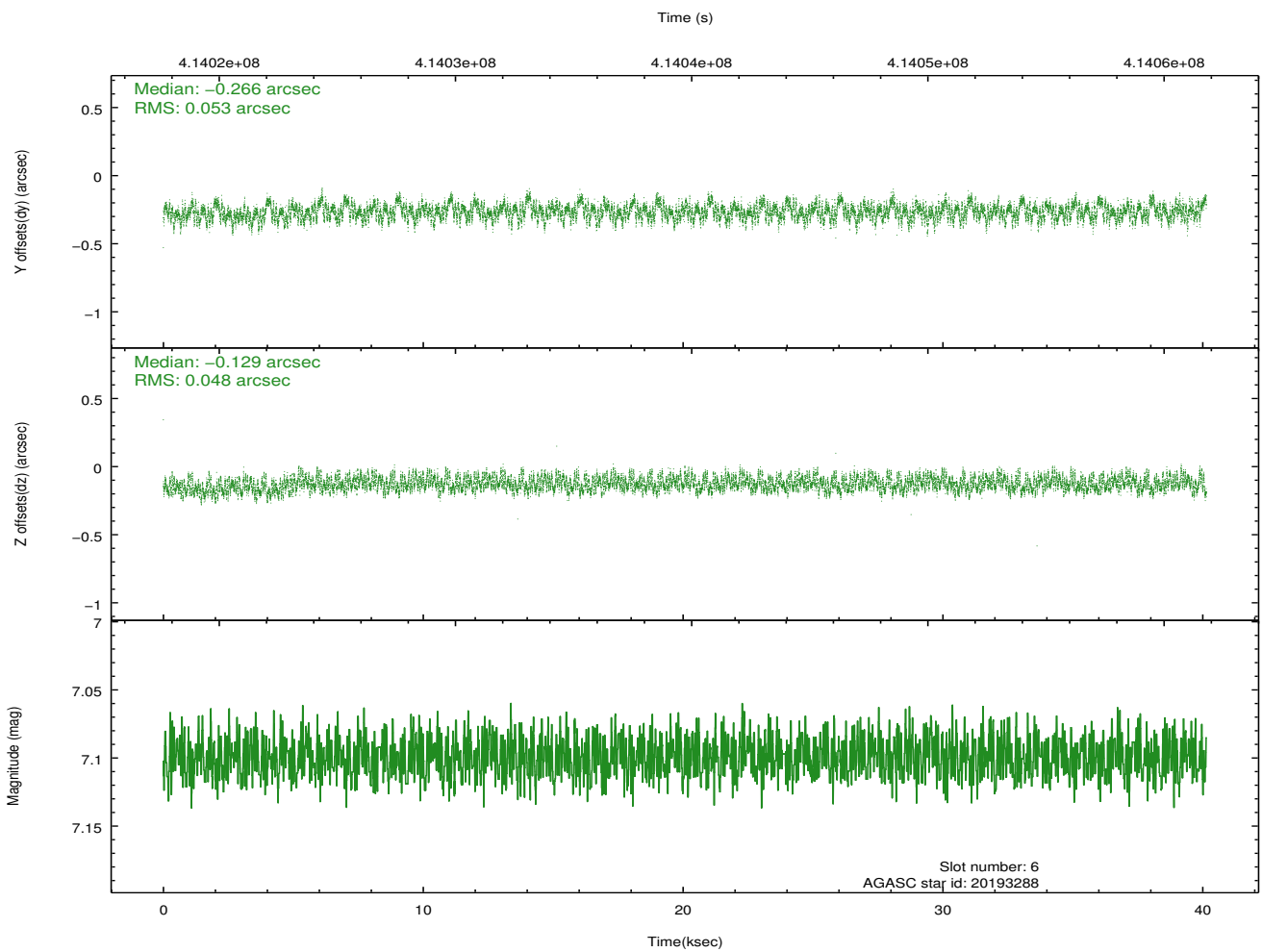
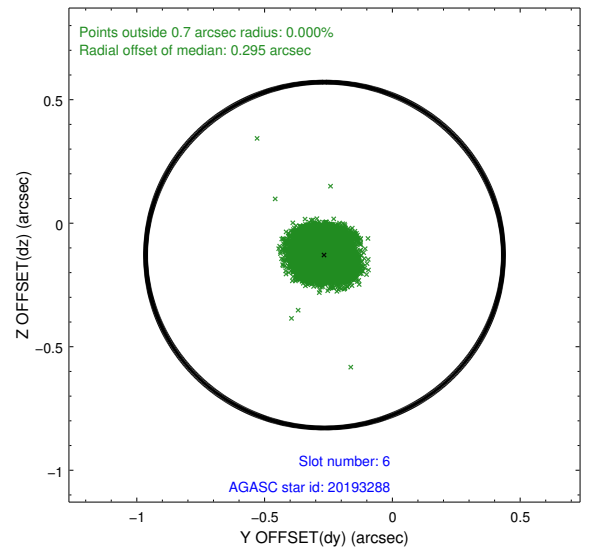
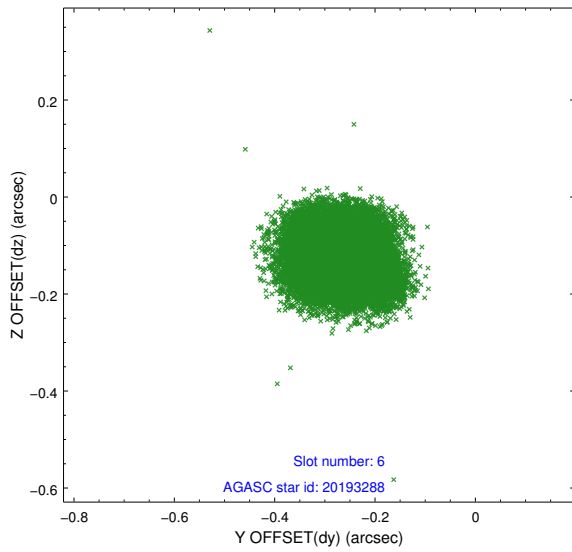
## 2.4.2 Slot 4



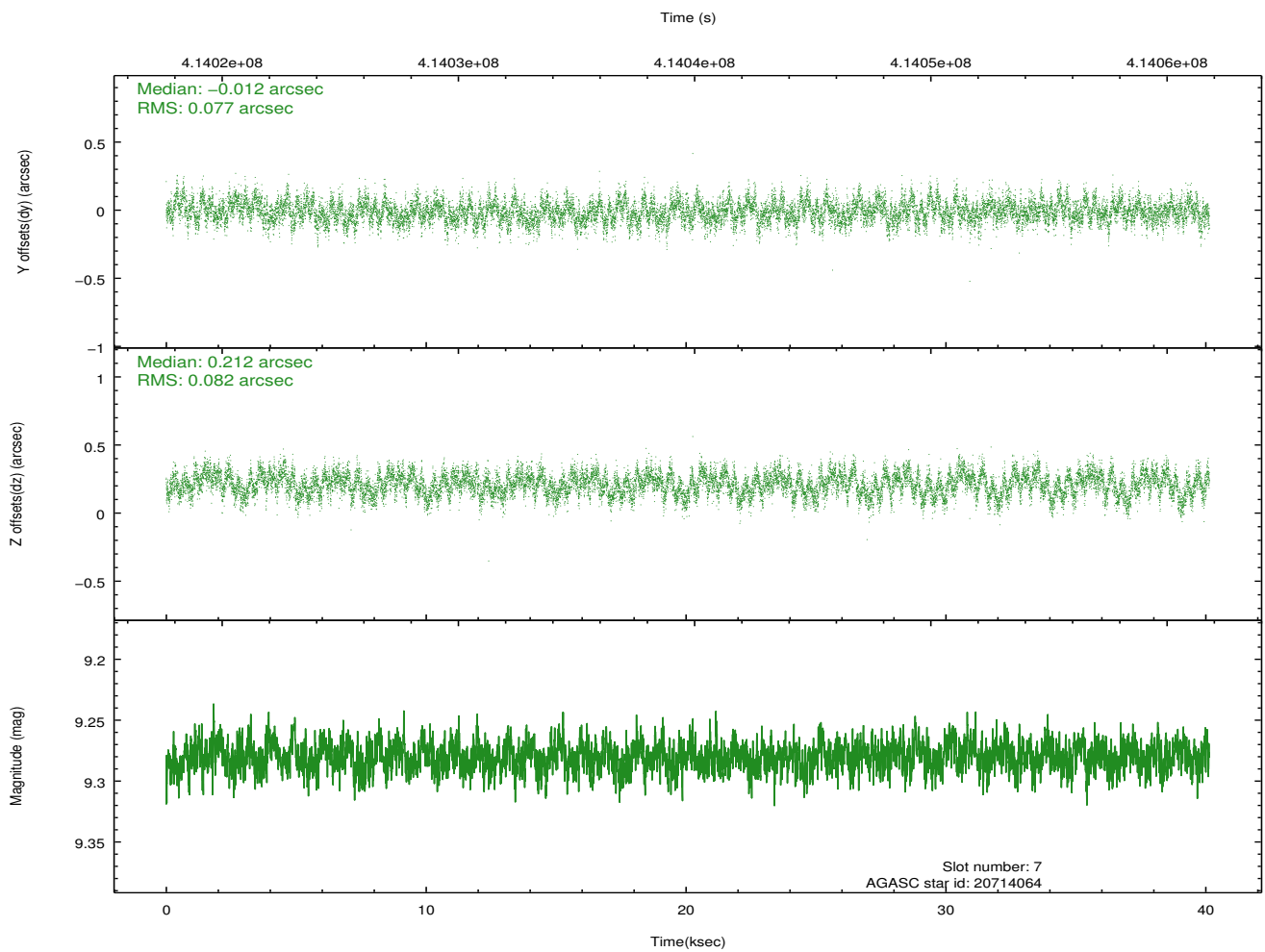
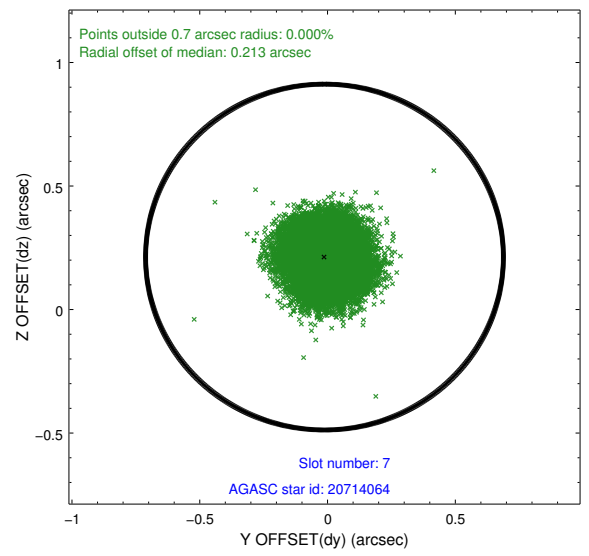
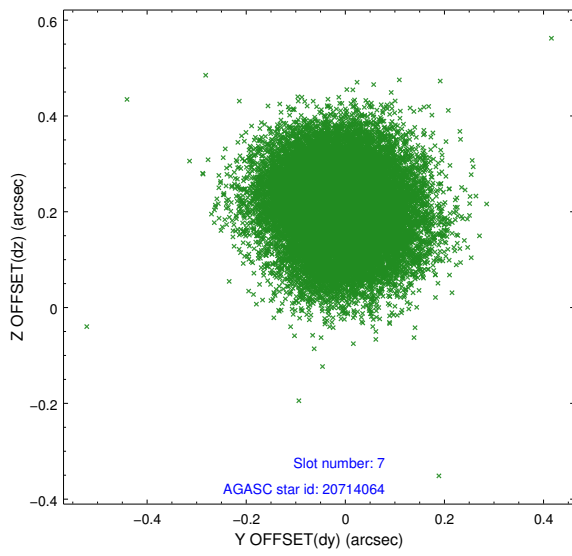
### 2.4.3 Slot 5



## 2.4.4 Slot 6

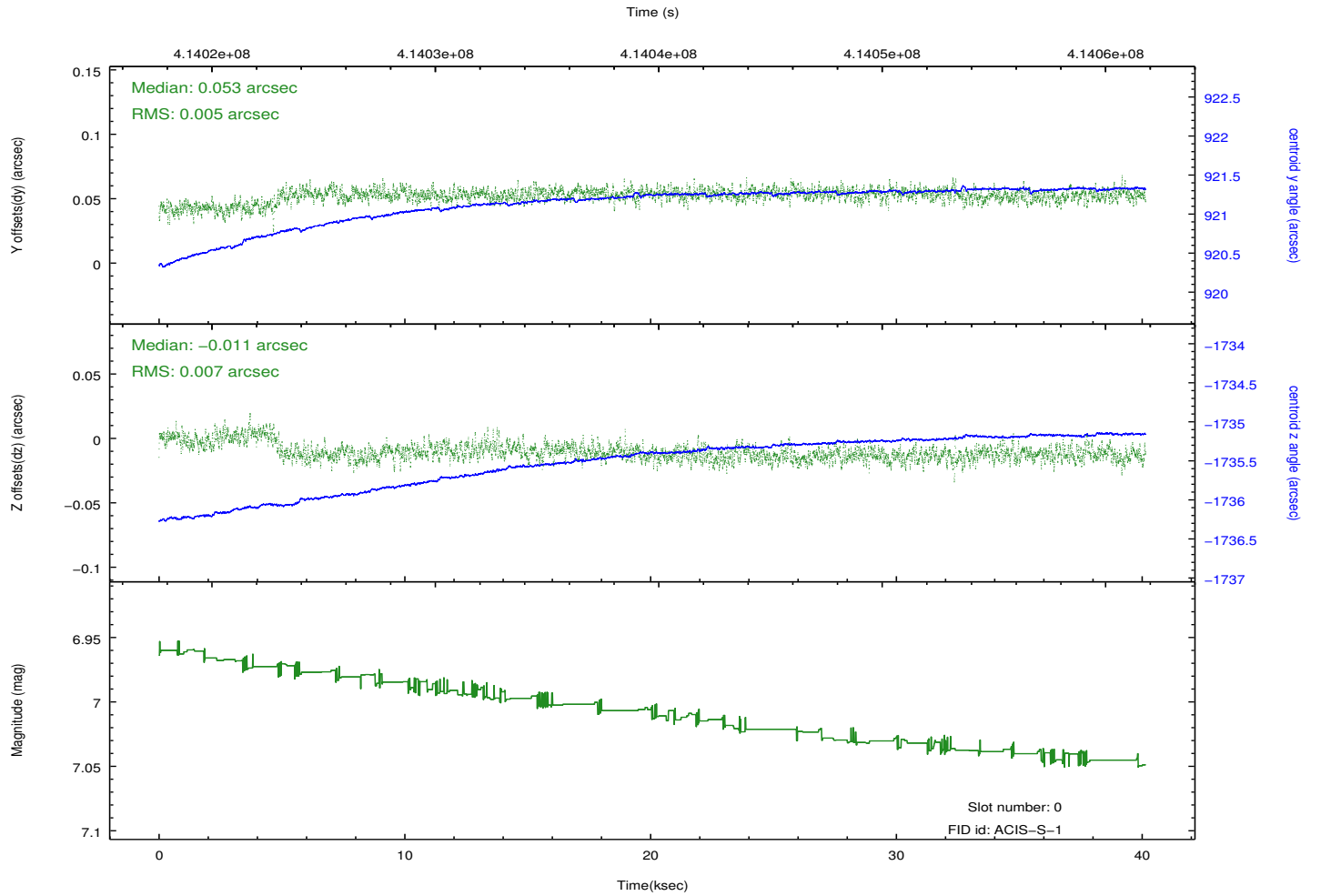
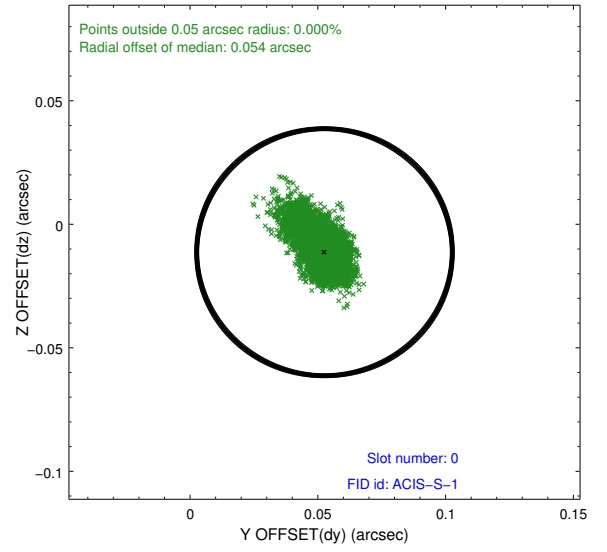
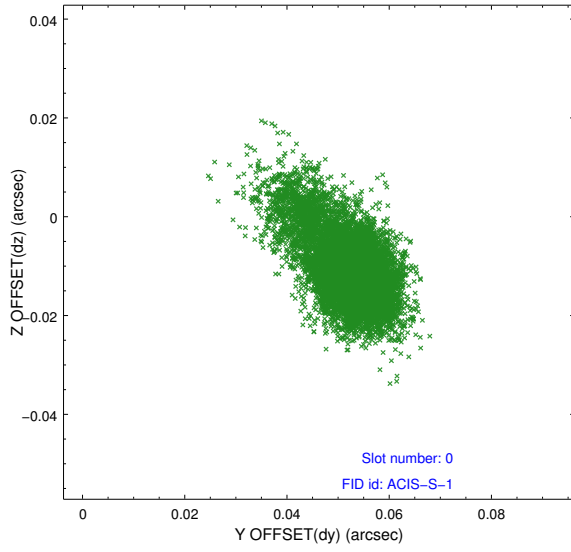


## 2.4.5 Slot 7

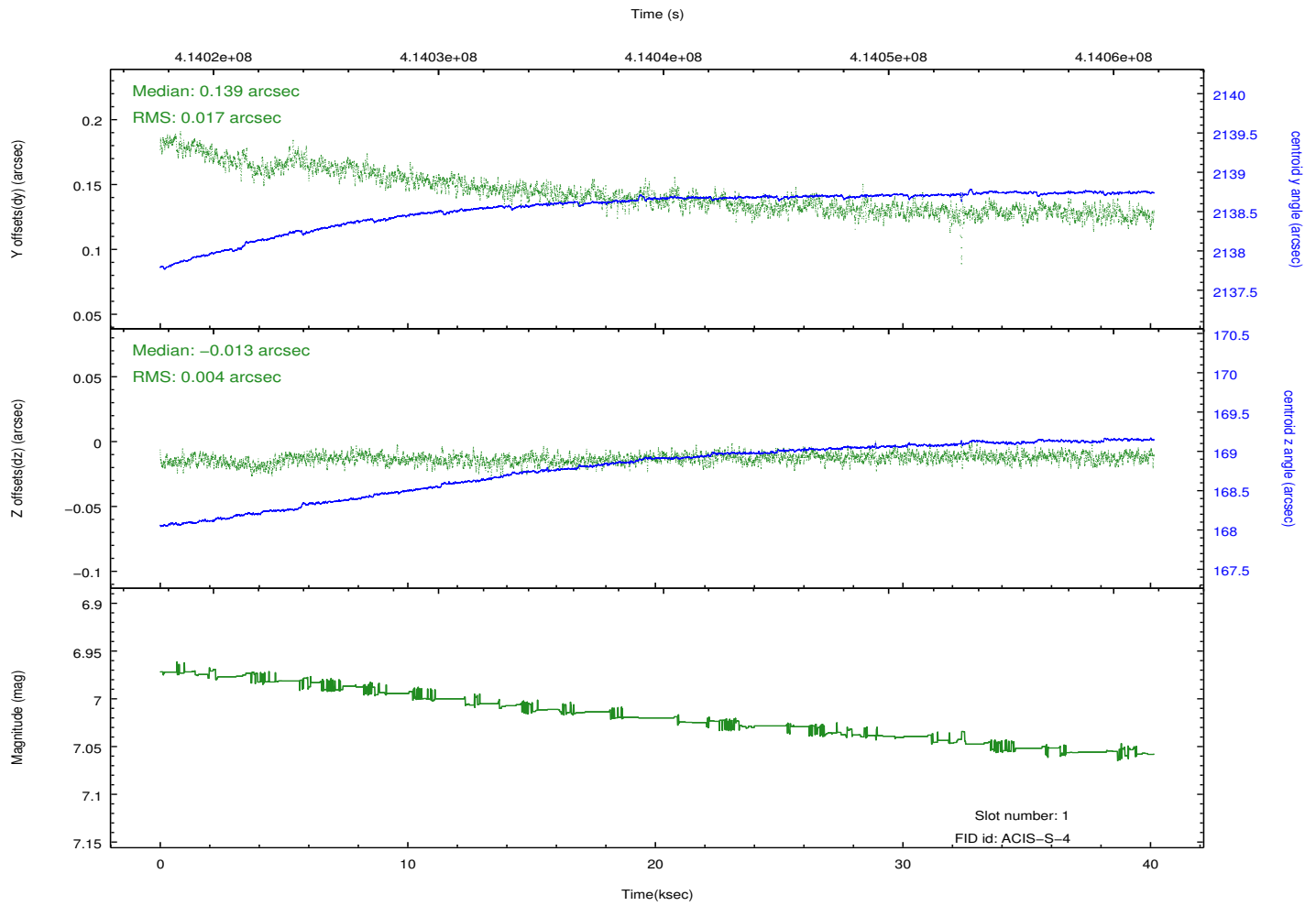
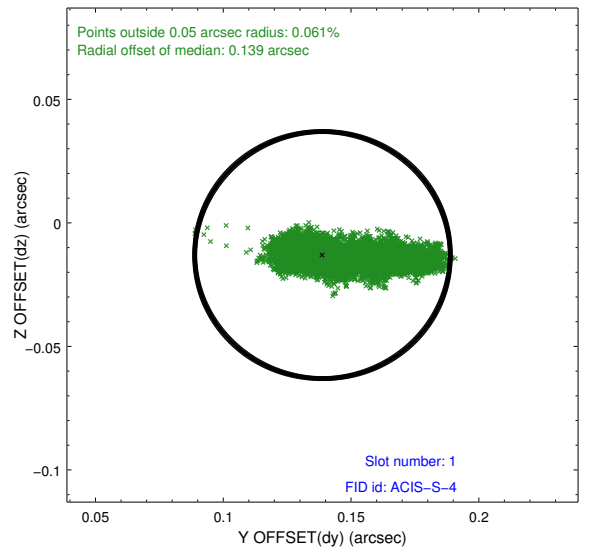
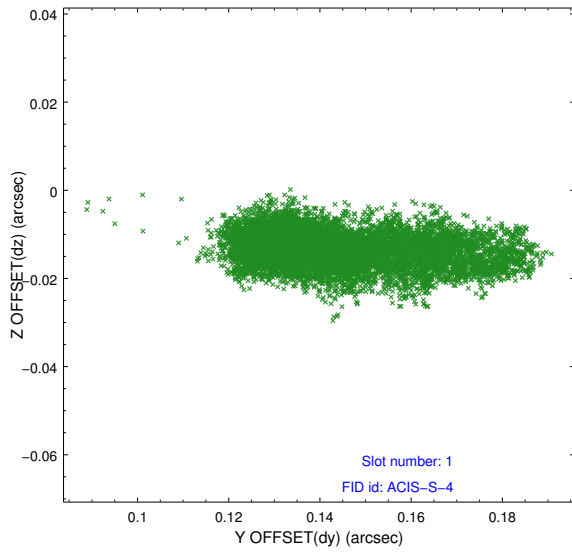


## 2.5 FID Slots

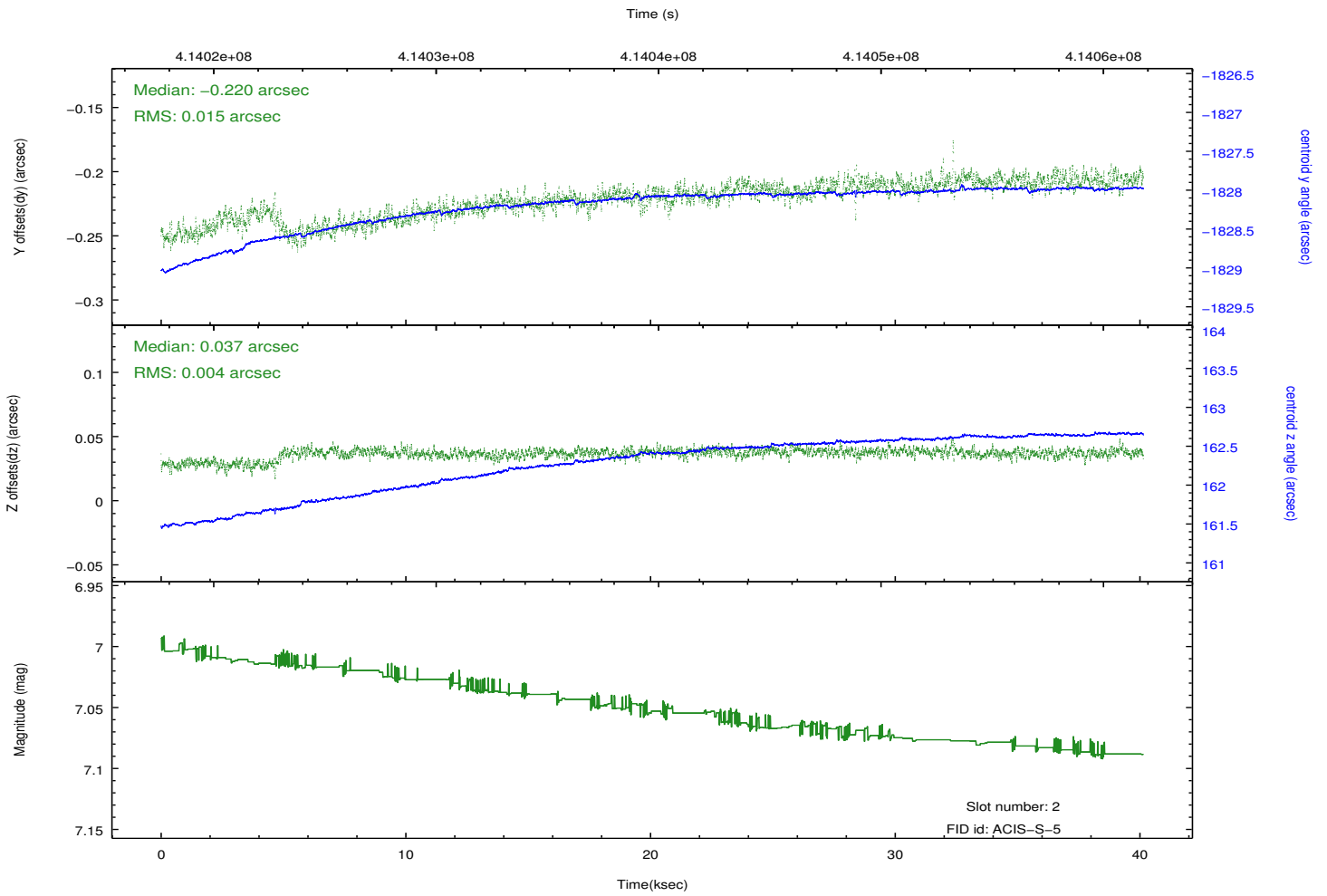
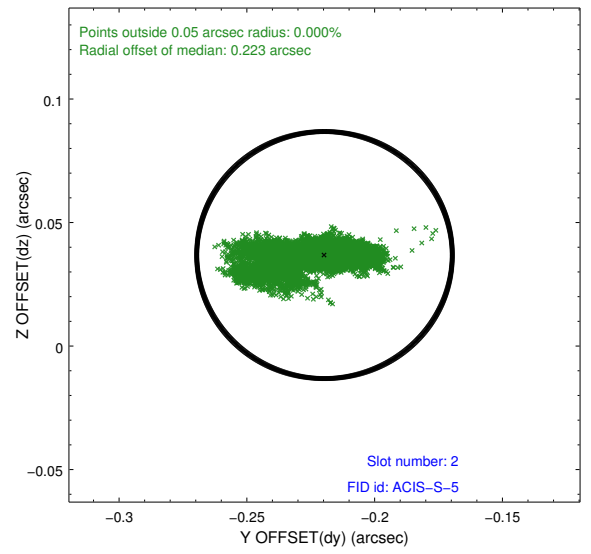
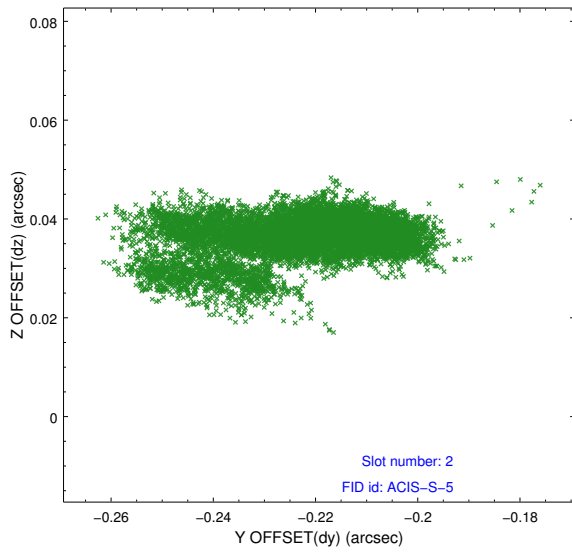
### 2.5.1 Slot 0



## 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)	2012.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.07725

## A.2 Comments