

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12734 - L2 Version 2  
Chandra X-Ray Center

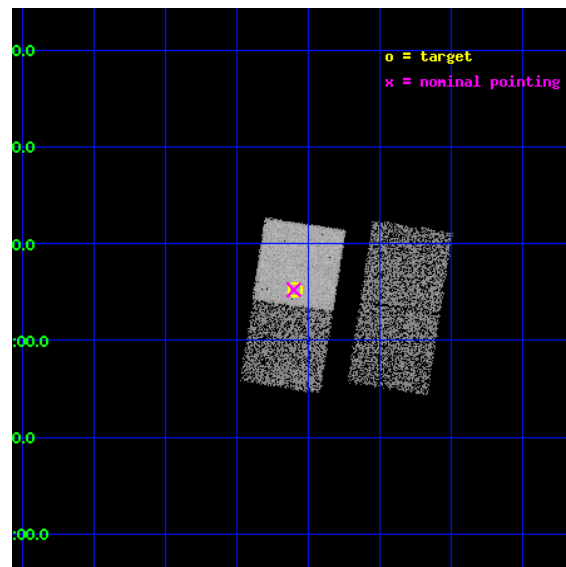
L2 Processing Date : Feb 24 2012

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# 1 Front

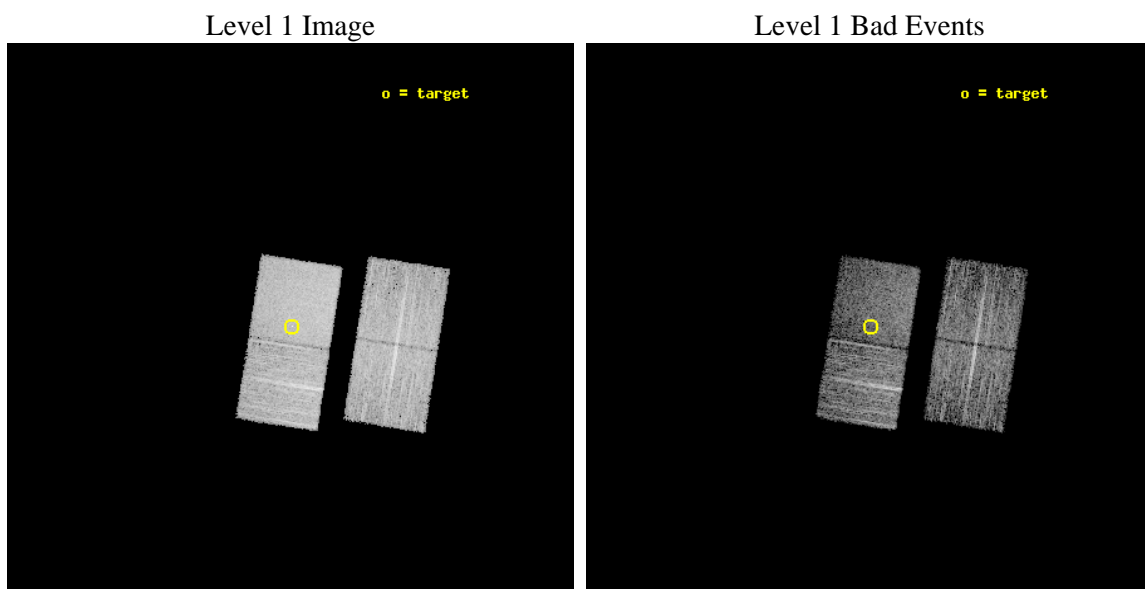
seq_num	702370	Sequence number
obs_id	12734	Observation id
title	Completing the Chandra 3C Snapshot Survey: Extragalactic Radio Sources with $z < 0.3$	Proposal title
observer	Dr. Daniel Harris	Principal investigator
object	3C 459	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	349.147083	Observer's specified target RA [deg]
dec_targ	4.088417	Observer's specified target Dec [deg]
ra_nom	349.14986813794	Nominal RA [deg]
dec_nom	4.0871968490176	Nominal Dec [deg]
roll_nom	278.88343626458	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8053.8000619411	Sum of GTIs [s]
livetime	7948.5712350105	Livetime [s]
ontime2	8053.8000619411	Sum of GTIs [s]
ontime3	8053.8000619411	Sum of GTIs [s]
ontime6	8050.6590816379	Sum of GTIs [s]
ontime7	8053.8000619411	Sum of GTIs [s]
l2events	40234	Number of level 2 events



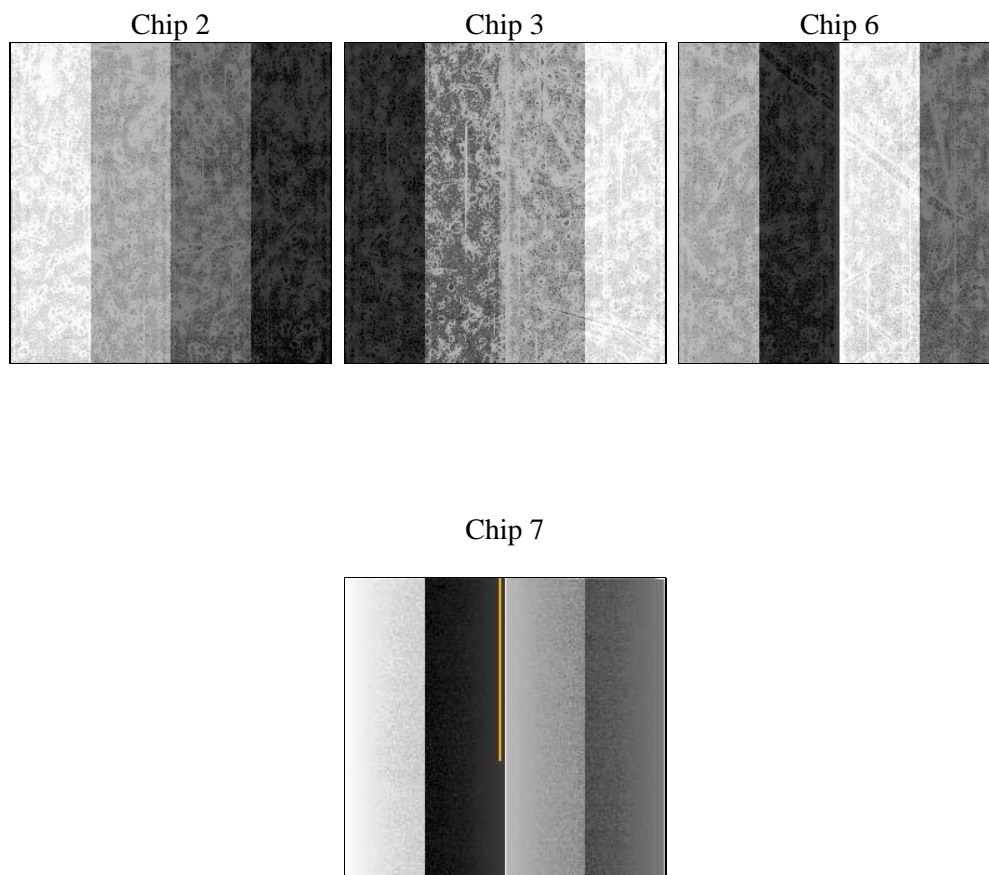
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	8053.8000619411	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	8053.8000619411	Sum of GTIs [s]
date	2012-02-25T02:59:46	Date and time of file creation	ontime3	8053.8000619411	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8050.6590816379	Sum of GTIs [s]
			ontime7	8053.8000619411	Sum of GTIs [s]
			l1events	203899	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	46534	44578	51652	61135
rejected events	41318	39430	46030	34042
rejected %	88%	88%	89%	55%

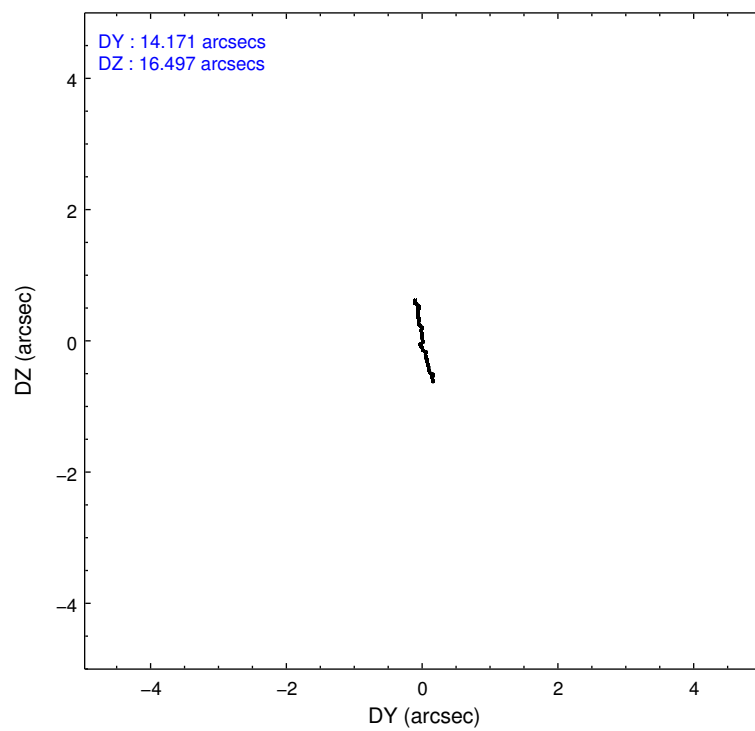
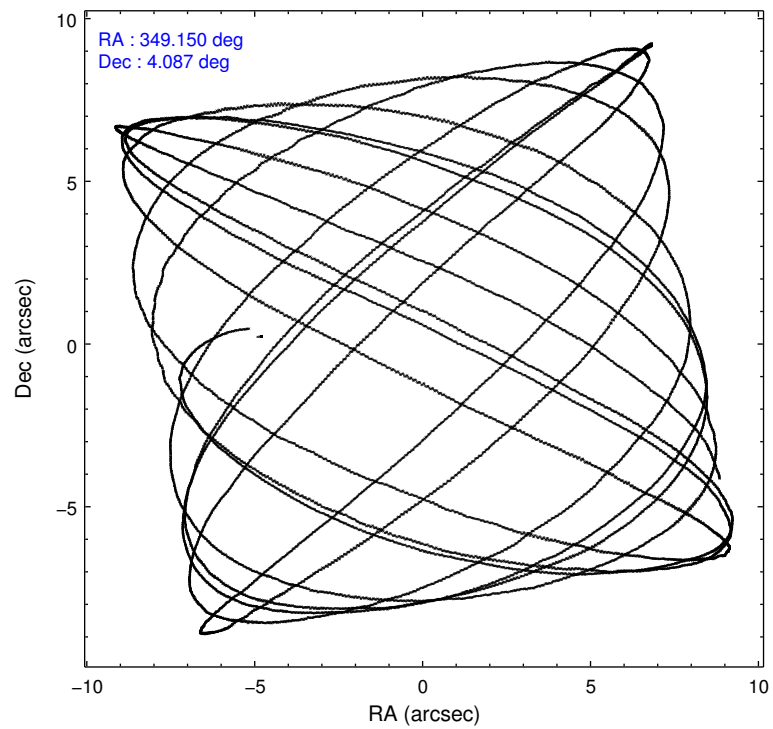
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1773	1761	2018	2477
	3%	3%	3%	4%
grade 1 events	26	31	18	73
	0%	0%	0%	0%
grade 2 events	1291	1146	1215	5480
	2%	2%	2%	8%
grade 3 events	555	570	569	2434
	1%	1%	1%	3%
grade 4 events	598	584	570	2332
	1%	1%	1%	3%
grade 5 events	2046	2294	2346	6372
	4%	5%	4%	10%
grade 6 events	1003	1093	1253	14398
	2%	2%	2%	23%
grade 7 events	39242	37099	43663	27569
	84%	83%	84%	45%

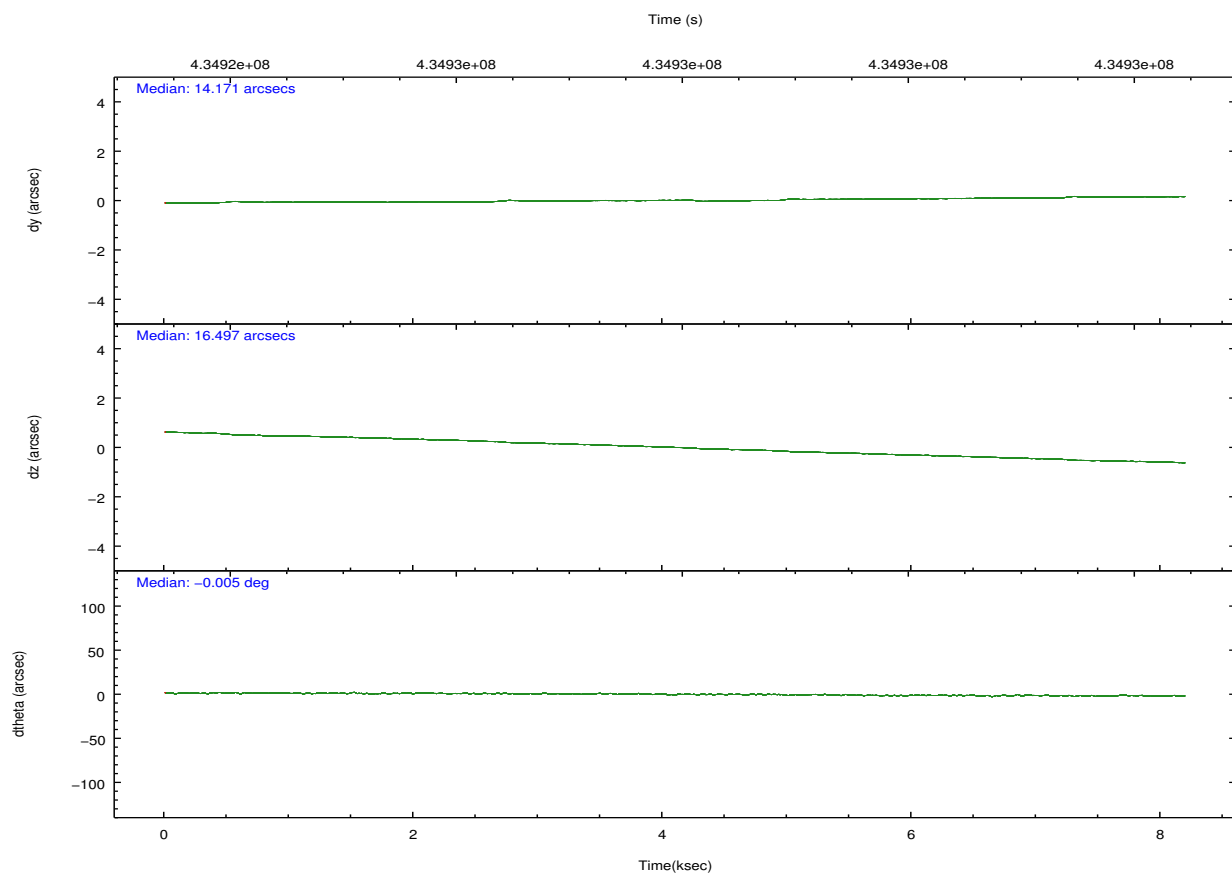
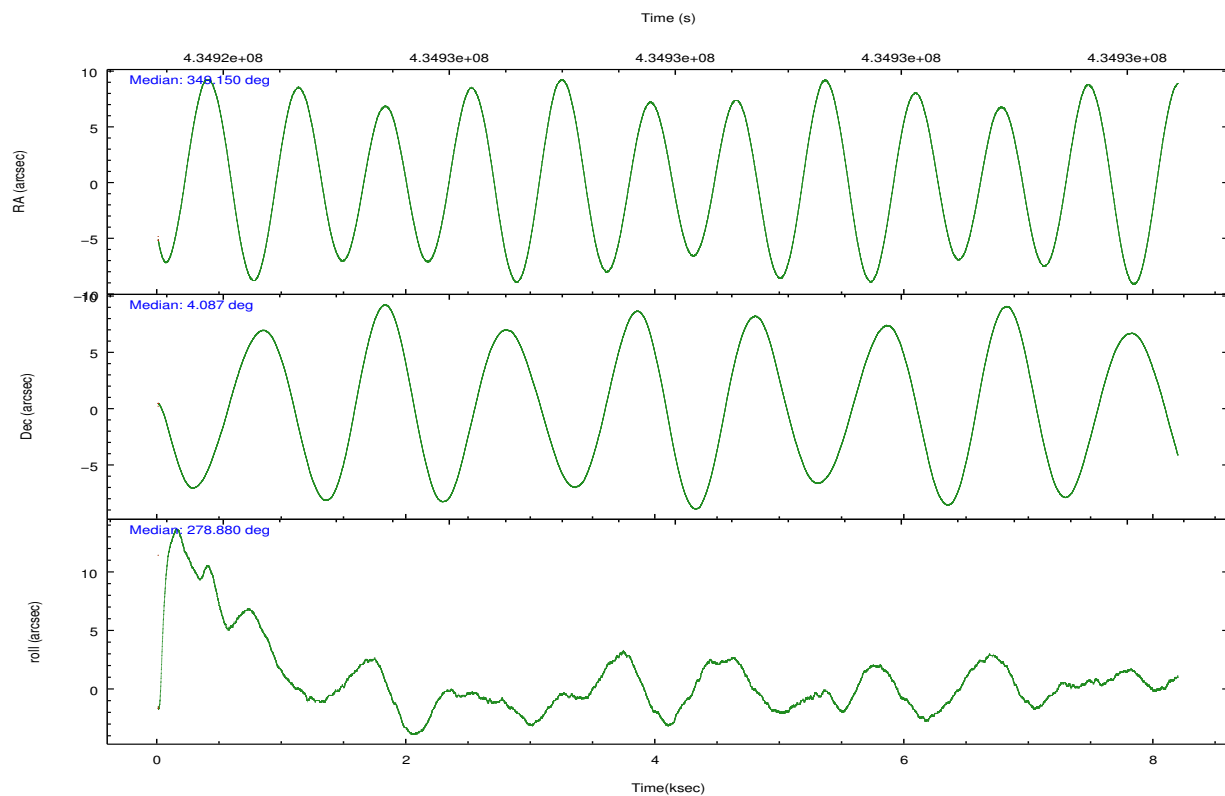


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	349.132364	349.1498681379375	CCD I2 on	O1	Y
[deg] Pointing Dec	4.108256	4.087196849017596	CCD I3 on	O2	Y
[deg] Pointing Roll	278.728071	278.8834362645788	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	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	N	N
[s] Observation start time (MET)	434924041.184000	434922891.34815	CCD S5 on	N	N
Observation start date	2011-10-13T20:12:55	2011-10-13T19:54:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	434932041.184000	434932919.43617	On-chip summing requested	N	N
Observation end date	2011-10-13T22:26:15	2011-10-13T22:41:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



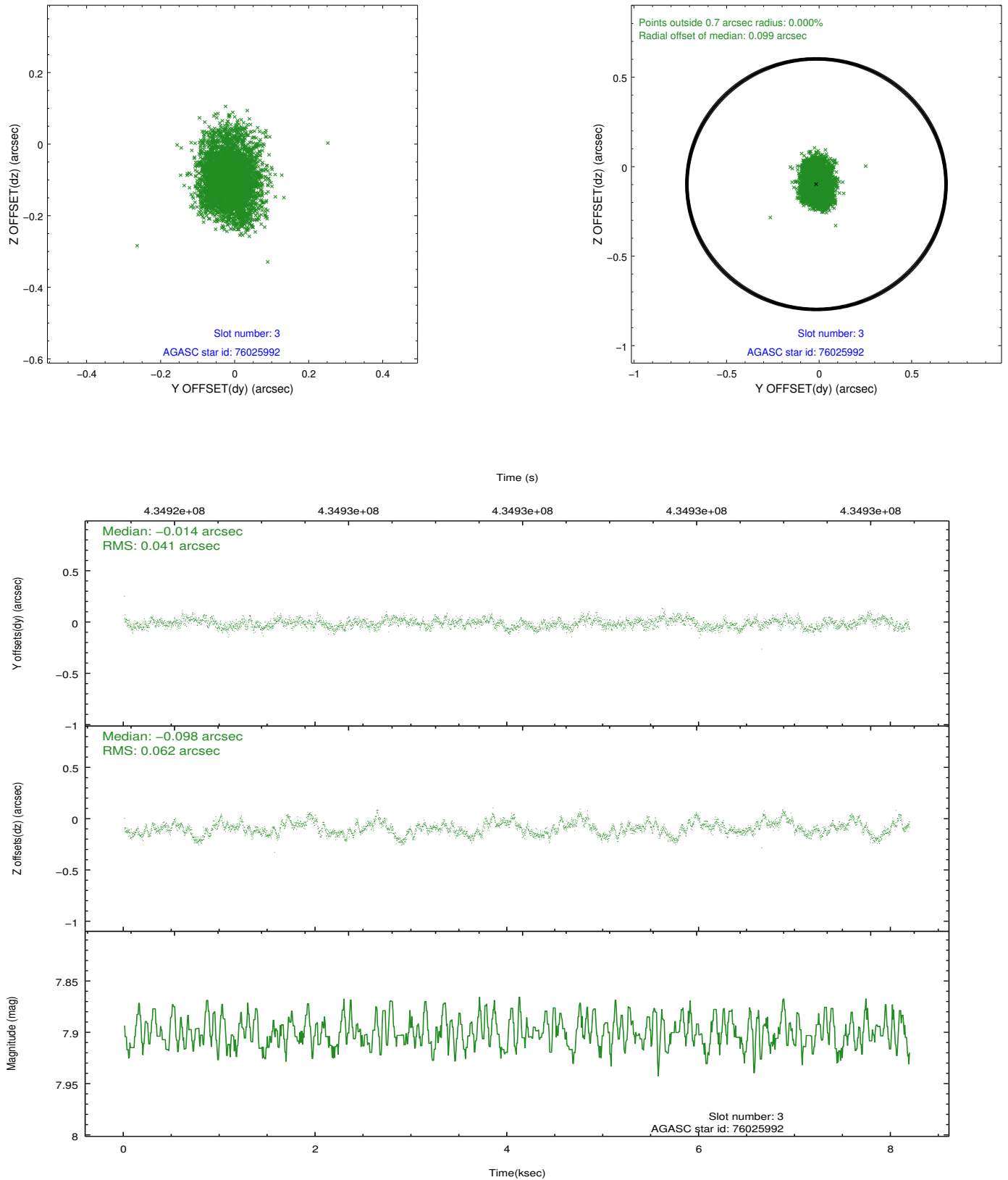


### Slot Statistics

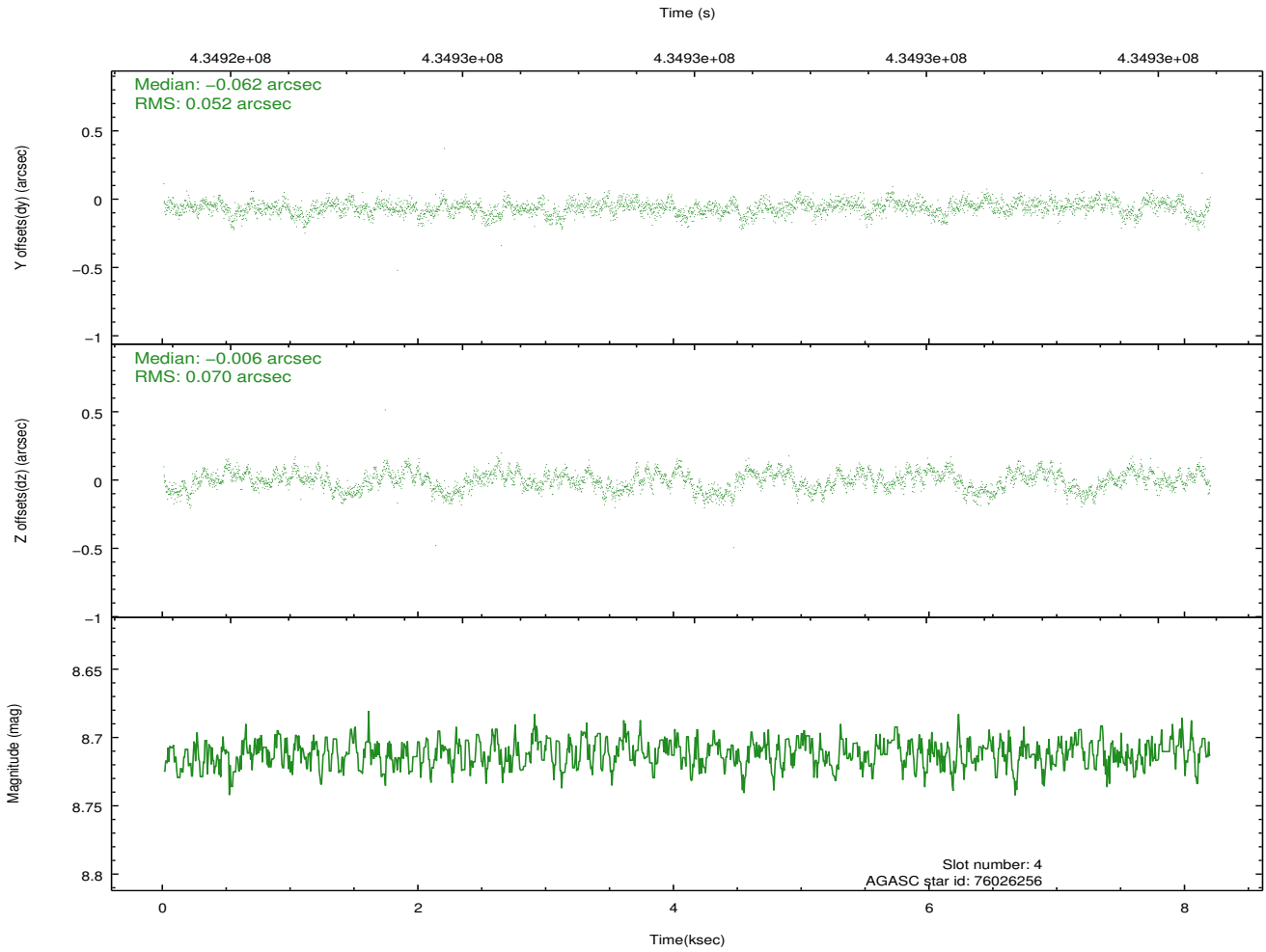
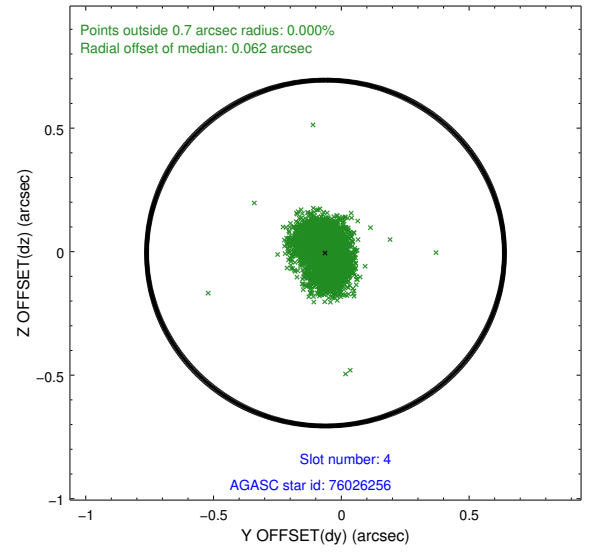
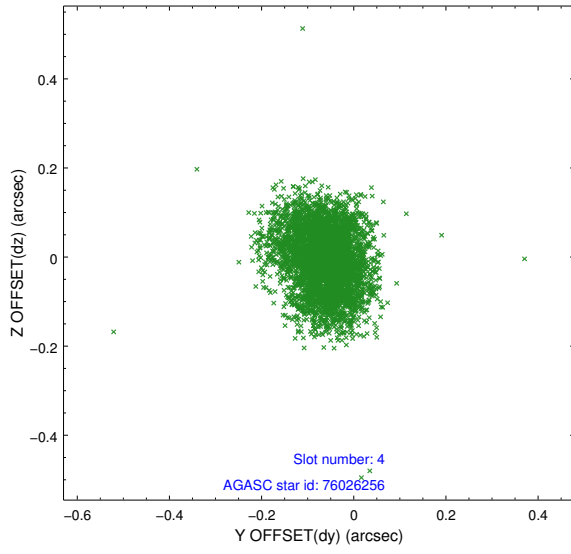
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.96	1998	0.123	-0.115	0.019	0.038	0.000000	0.000000	929.01	-1733.66
1	FID	ACIS-S-5	7.00	1998	-0.200	0.066	0.020	0.033	0.000000	0.000000	-1819.91	163.39
2	FID	ACIS-S-6	7.10	1998	0.057	0.062	0.012	0.022	0.000000	0.000000	393.78	808.10
3	GUIDE	76025992	7.90	3996	-0.014	-0.098	0.077	0.131	349.212168	3.945484	622.82	194.48
4	GUIDE	76026256	8.71	3992	-0.062	-0.006	0.092	0.146	349.252062	4.461253	-1190.43	617.78
5	GUIDE	76027832	9.29	3952	0.202	-0.089	0.177	0.269	349.314522	3.617945	1844.87	379.56
6	GUIDE	76027872	9.05	3985	-0.042	0.100	0.102	0.161	349.328073	4.451723	-1115.19	882.47
7	GUIDE	76025488	9.50	3980	-0.090	0.087	0.133	0.210	349.843397	3.874009	1219.80	2397.15

## 2.4 Star Slots

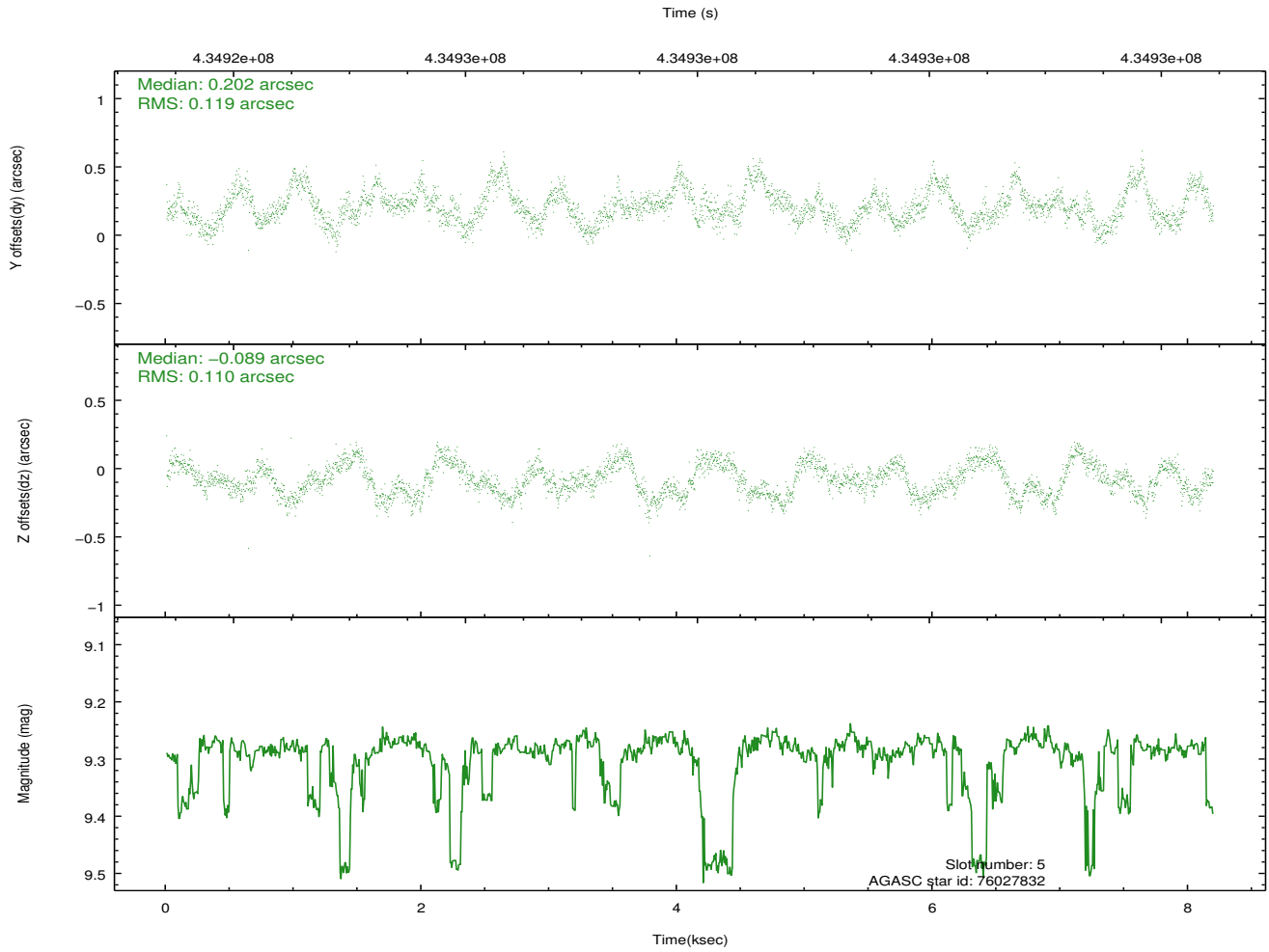
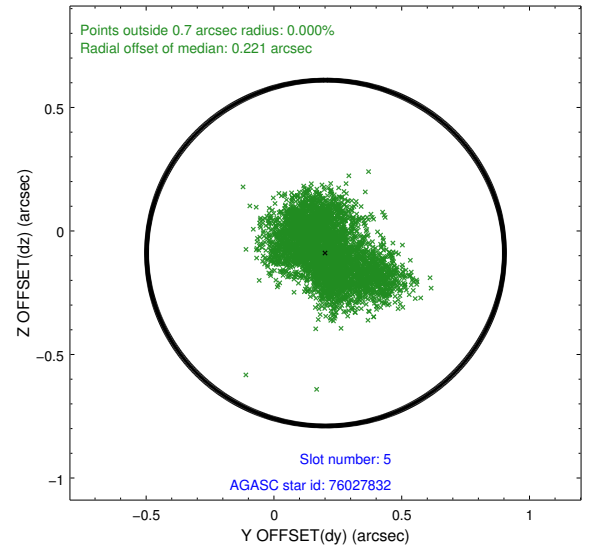
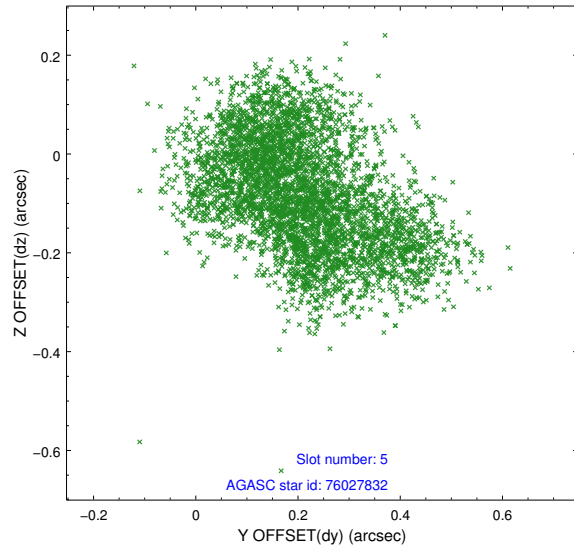
### 2.4.1 Slot 3



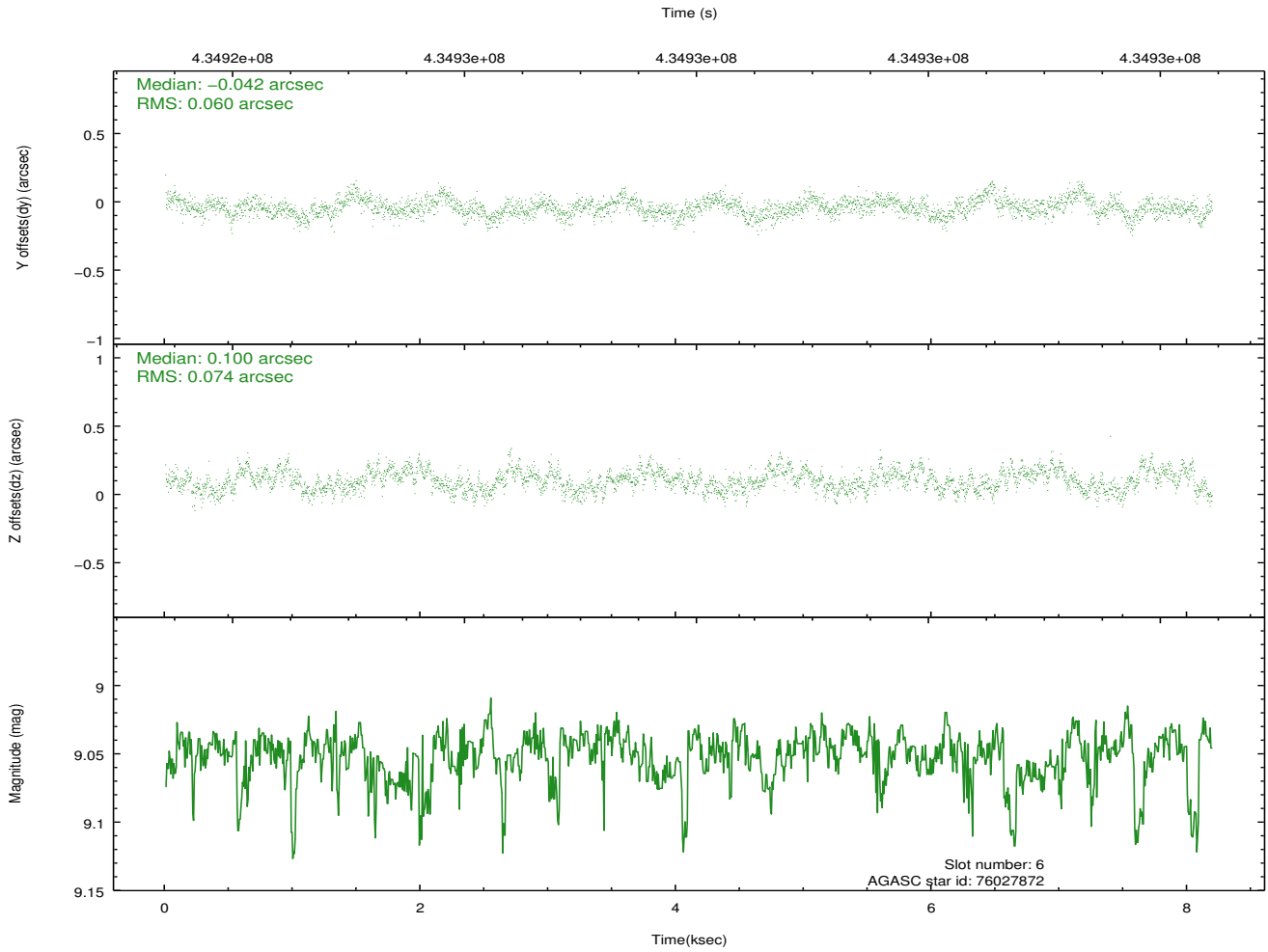
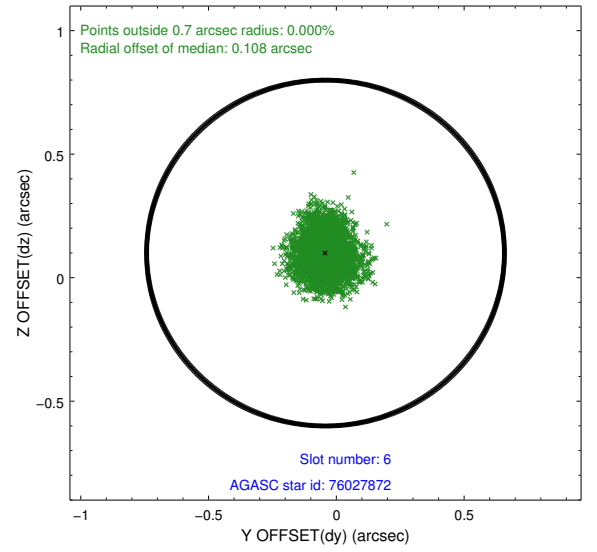
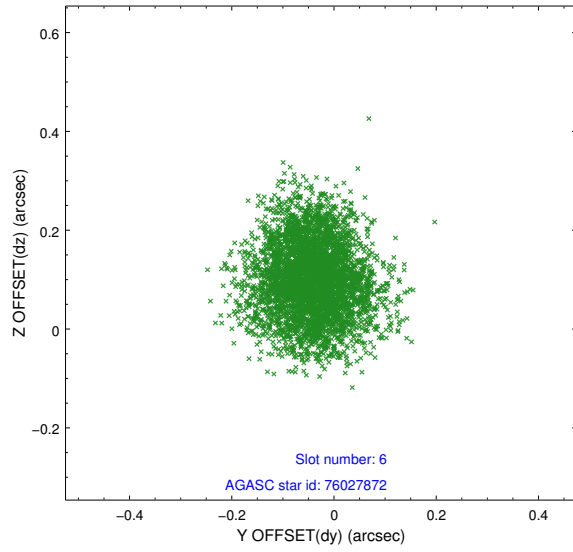
### 2.4.2 Slot 4



### 2.4.3 Slot 5

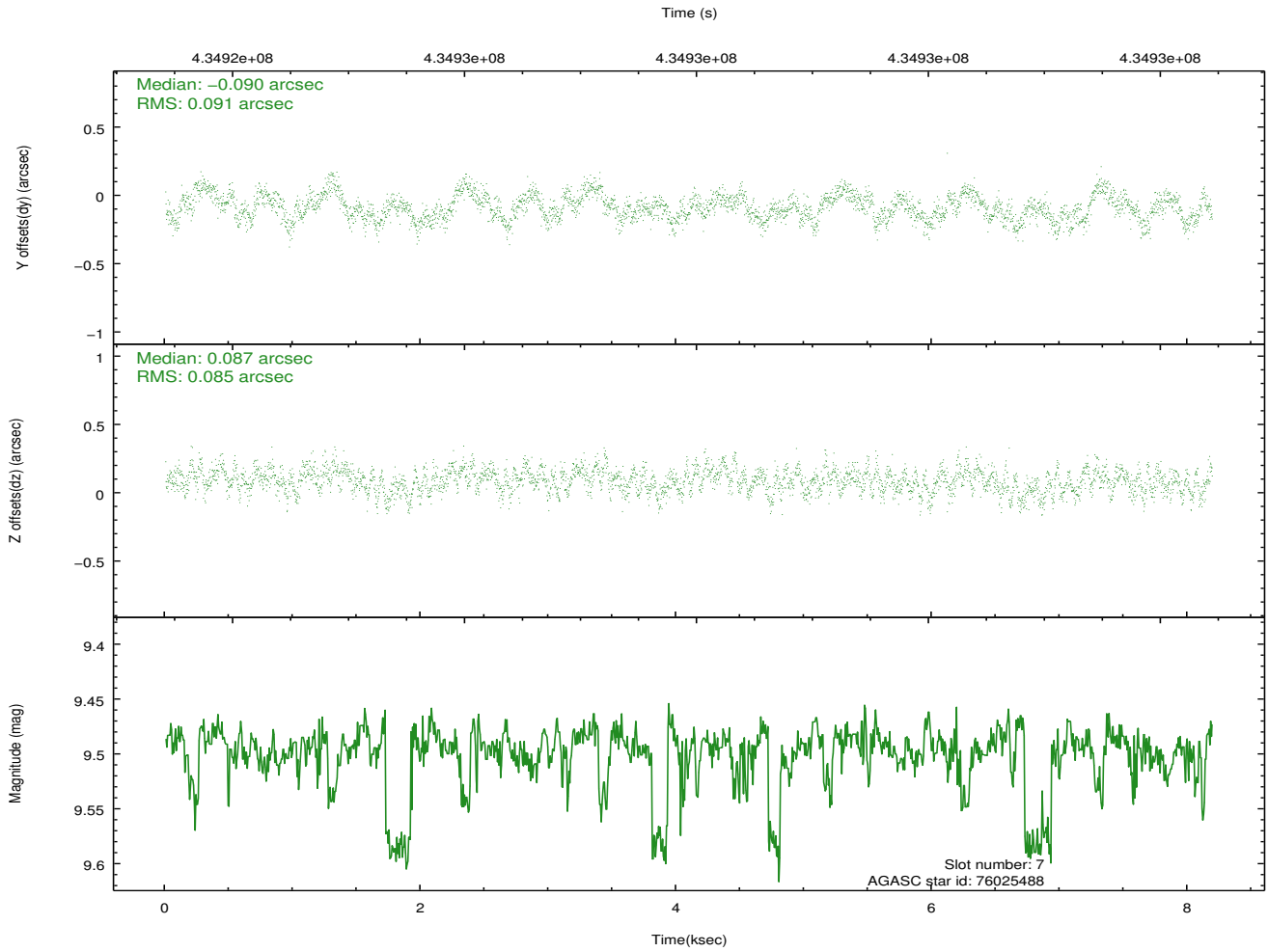
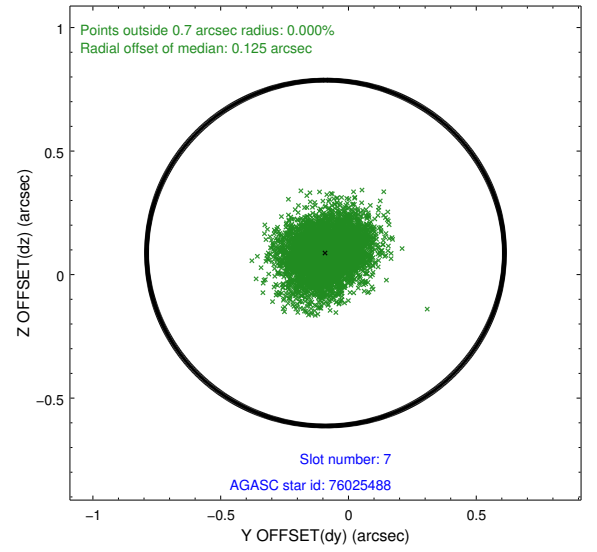
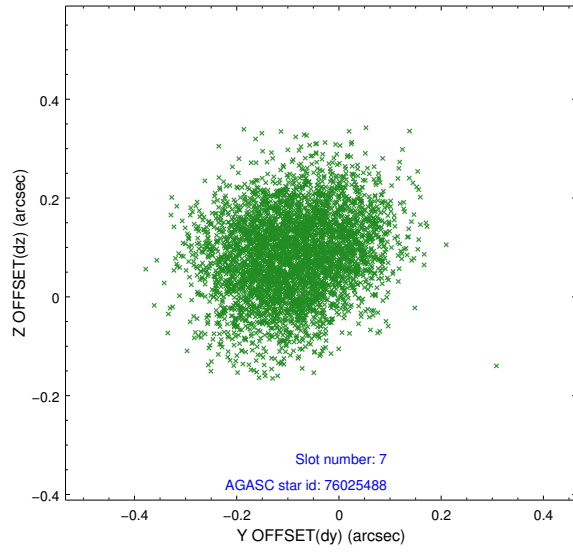


## 2.4.4 Slot 6



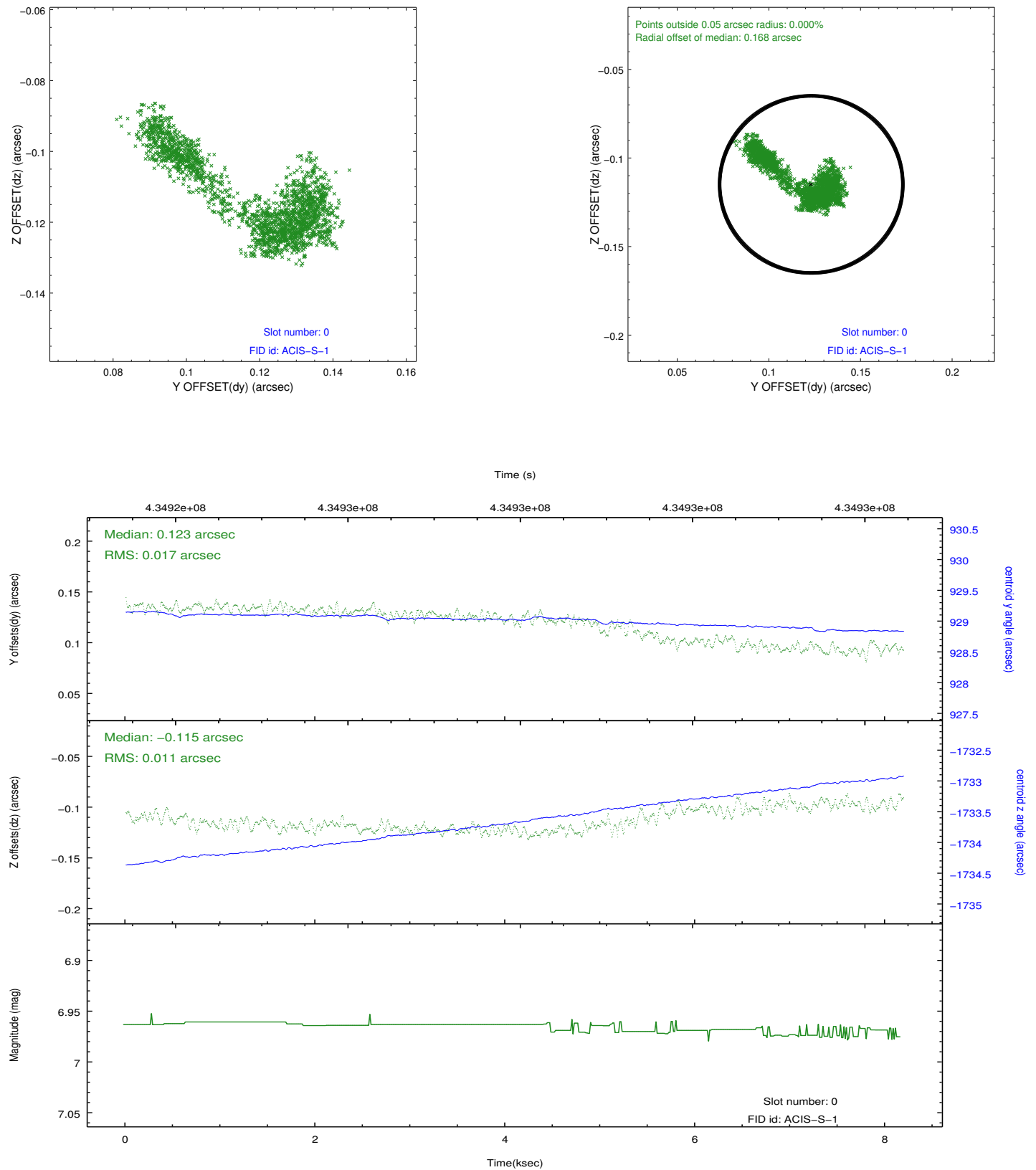


## 2.4.5 Slot 7

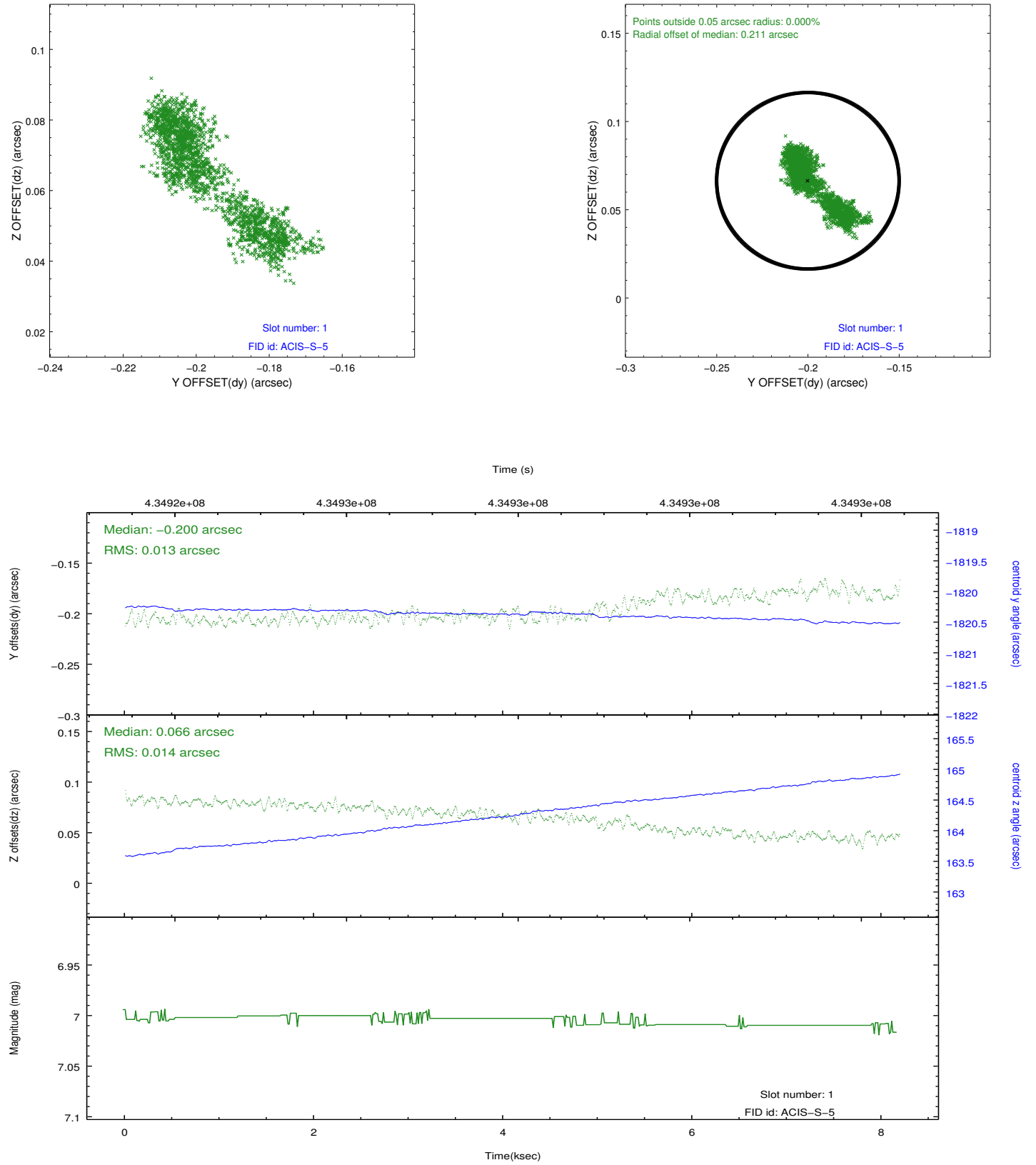


## 2.5 FID Slots

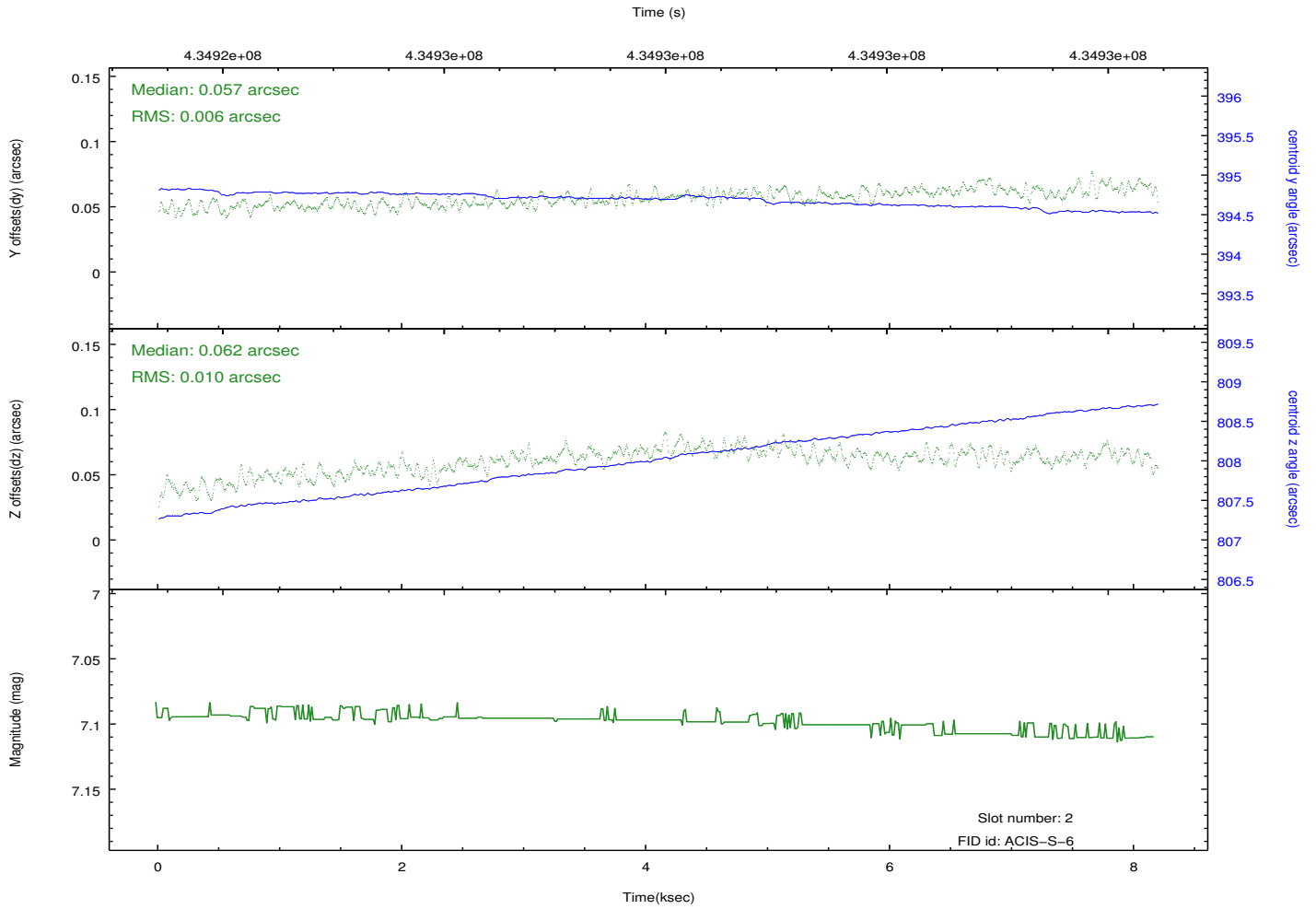
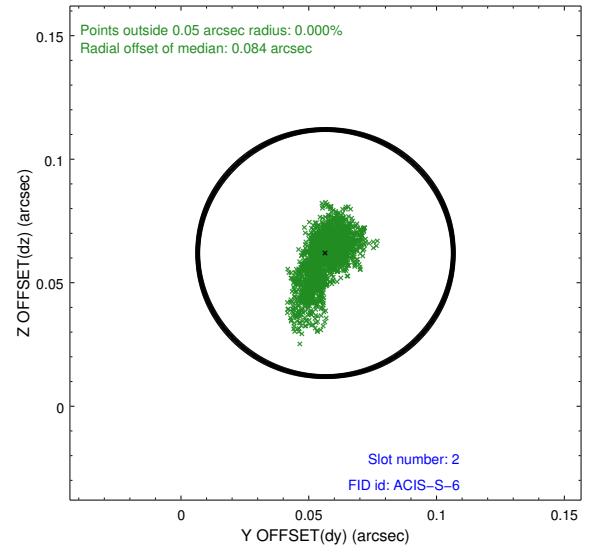
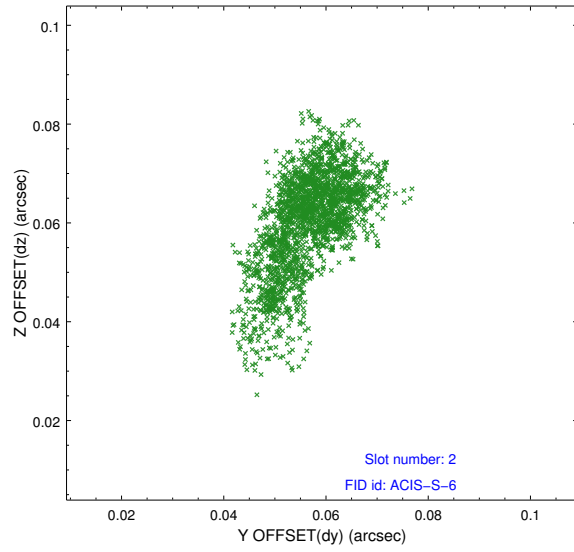
### 2.5.1 Slot 0



## 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)	2012.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0538000619411

### **A.2 Comments**