

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11980 - L2 Version 2  
Chandra X-Ray Center

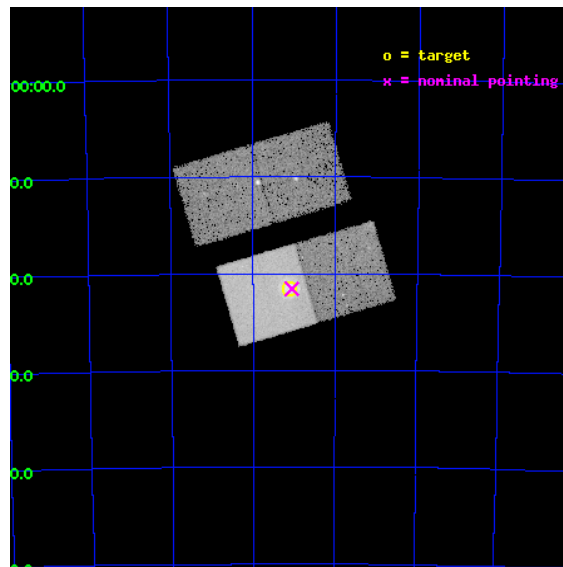
L2 Processing Date : Jun 24 2012

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# 1 Front

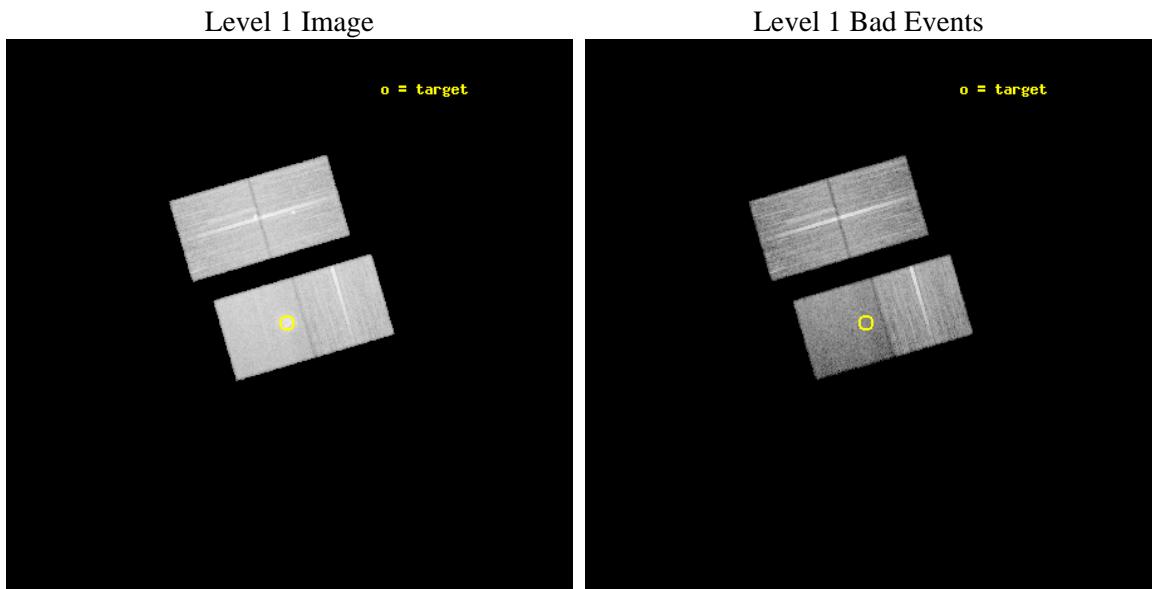
seq_num	501185	Sequence number
obs_id	11980	Observation id
title	A Detailed Study of the Aged O-Rich Supernova Remnant 0049-73.6	Pr
observer	DR. Sangwook Park	Principal investigator
object	SNR 0049-73.6	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	12.779167	Observer's specified target RA [deg]
dec_targ	-73.358333	Observer's specified target Dec [deg]
ra_nom	12.762862161161	Nominal RA [deg]
dec_nom	-73.359610553426	Nominal Dec [deg]
roll_nom	163.64099682584	Nominal Roll [deg]
revision	2	Processing version of data
ontime	23051.600177288	Sum of GTIs [s]
livetime	22750.414050631	Livetime [s]
ontime2	23051.600177288	Sum of GTIs [s]
ontime3	23051.600177288	Sum of GTIs [s]
ontime6	23045.318196774	Sum of GTIs [s]
ontime7	23051.600177288	Sum of GTIs [s]
l2events	132611	Number of level 2 events



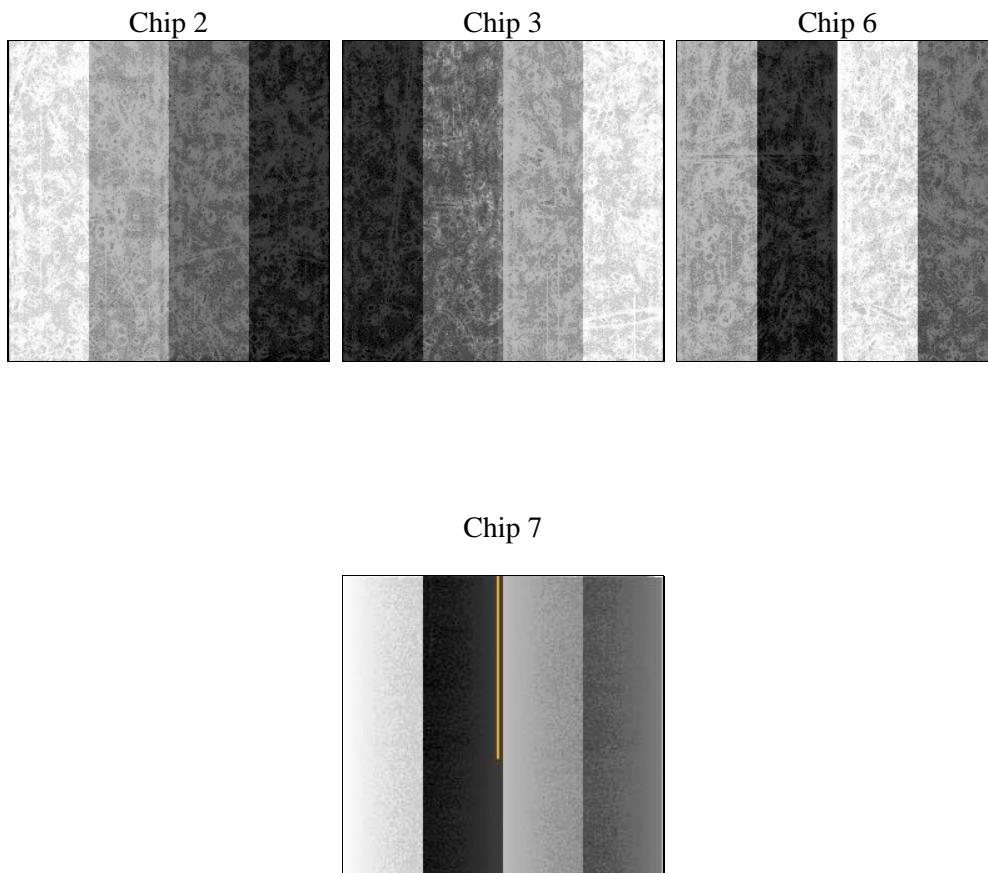
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	23051.600177288	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime2	23051.600177288	Sum of GTIs [s]
date	2012-06-24T21:03:22	Date and time of file creation	ontime3	23051.600177288	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	23045.318196774	Sum of GTIs [s]
			ontime7	23051.600177288	Sum of GTIs [s]
			l1events	661635	Number of level 1 events

### 2.1.4 Events

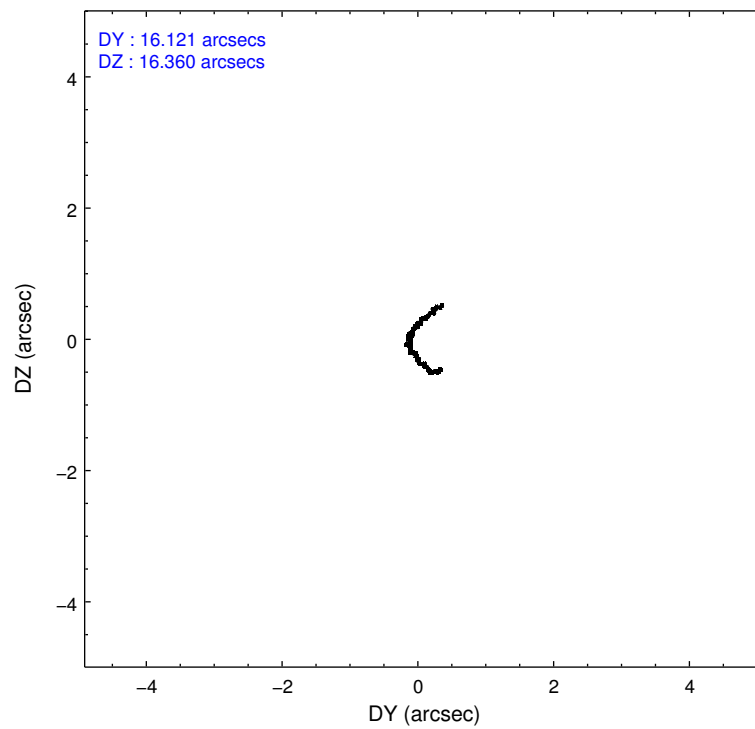
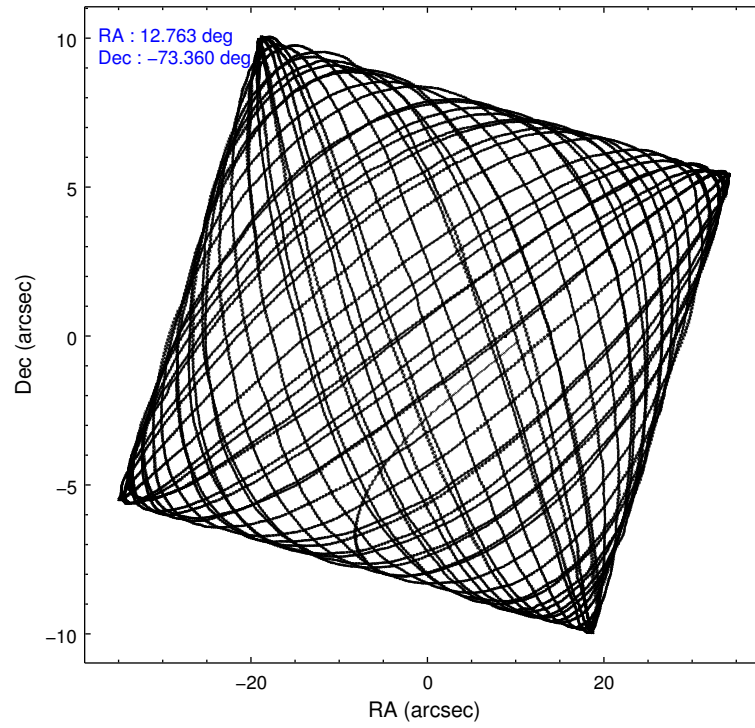
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	161601	159020	165713	175301
rejected events	143824	141898	147107	85770
rejected %	88%	89%	88%	48%

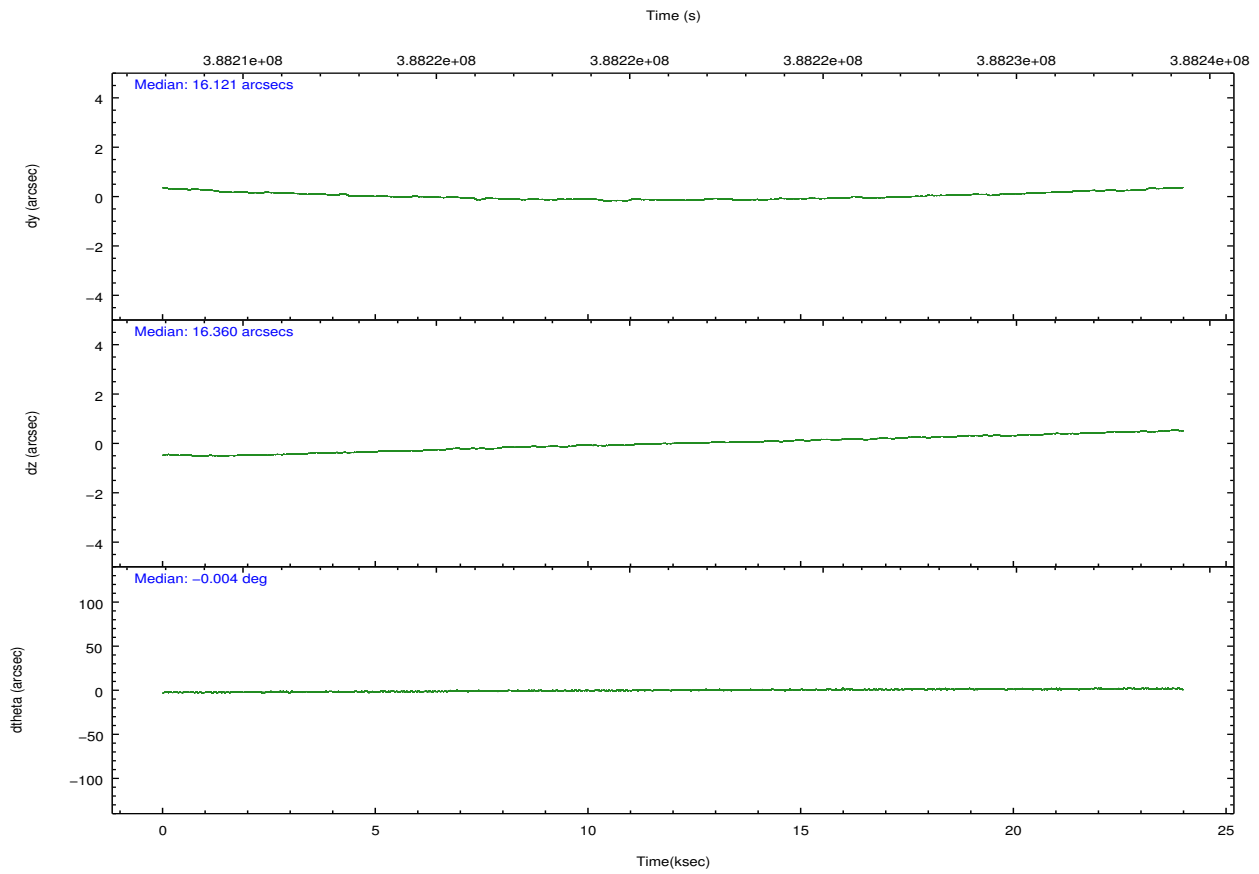
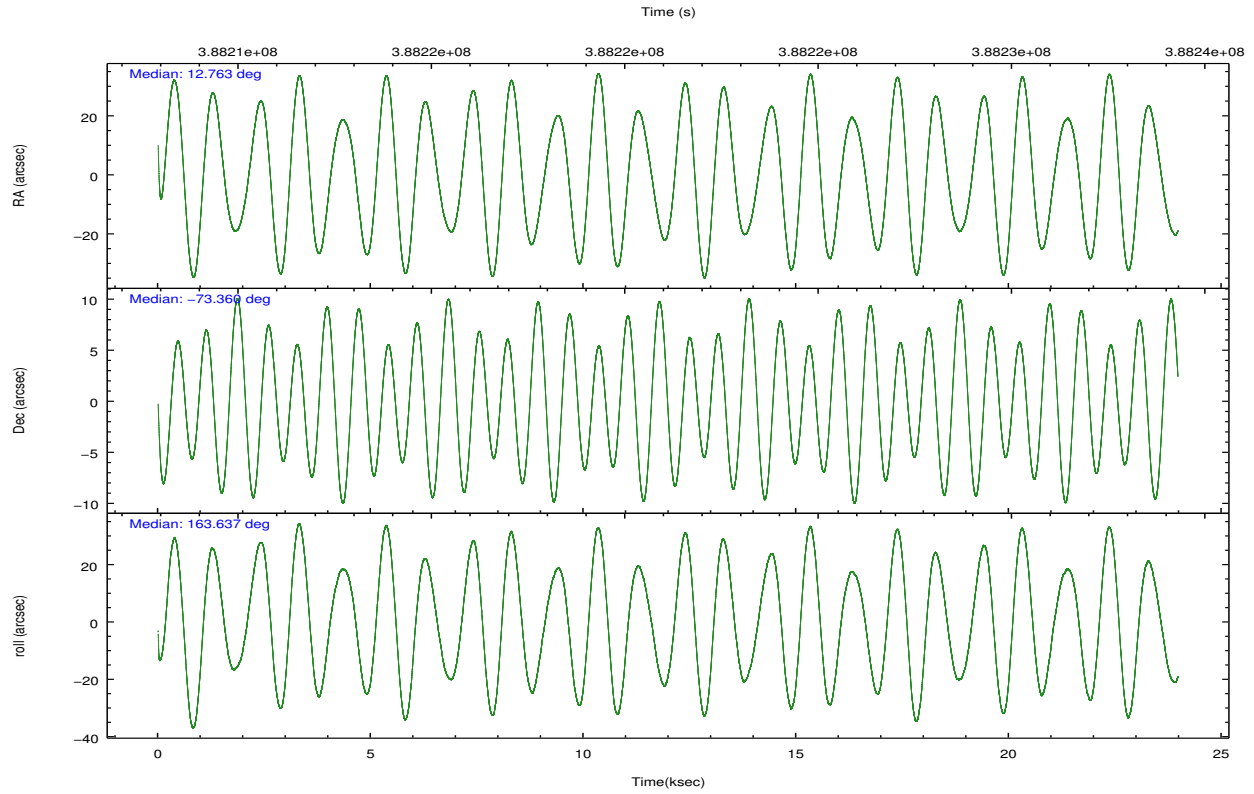
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	7101	6783	7088	10784
	4%	4%	4%	6%
grade 1 events	107	103	84	274
	0%	0%	0%	0%
grade 2 events	4247	3705	4135	19505
	2%	2%	2%	11%
grade 3 events	1736	1816	1876	8446
	1%	1%	1%	4%
grade 4 events	1802	1724	1884	8538
	1%	1%	1%	4%
grade 5 events	5154	5971	6281	18068
	3%	3%	3%	10%
grade 6 events	2894	3096	3625	42266
	1%	1%	2%	24%
grade 7 events	138560	135822	140740	67420
	85%	85%	84%	38%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	12.855270	12.76286216116057	Subarray requested	NONE	NONE
[deg] Pointing Dec	-73.352780	-73.35961055342592	Alternating exposures requested	N	N
[deg] Pointing Roll	163.572916	163.6409968258389	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	388209926.184000	388208191.43179			
Observation start date	2010-04-21T04:04:20	2010-04-21T03:36:31			
[s] Observation end time (MET)	388232926.184000	388233969.6706			
Observation end date	2010-04-21T10:27:40	2010-04-21T10:46:09			
Read mode	TIMED	TIMED			

## 2.3 Aspect



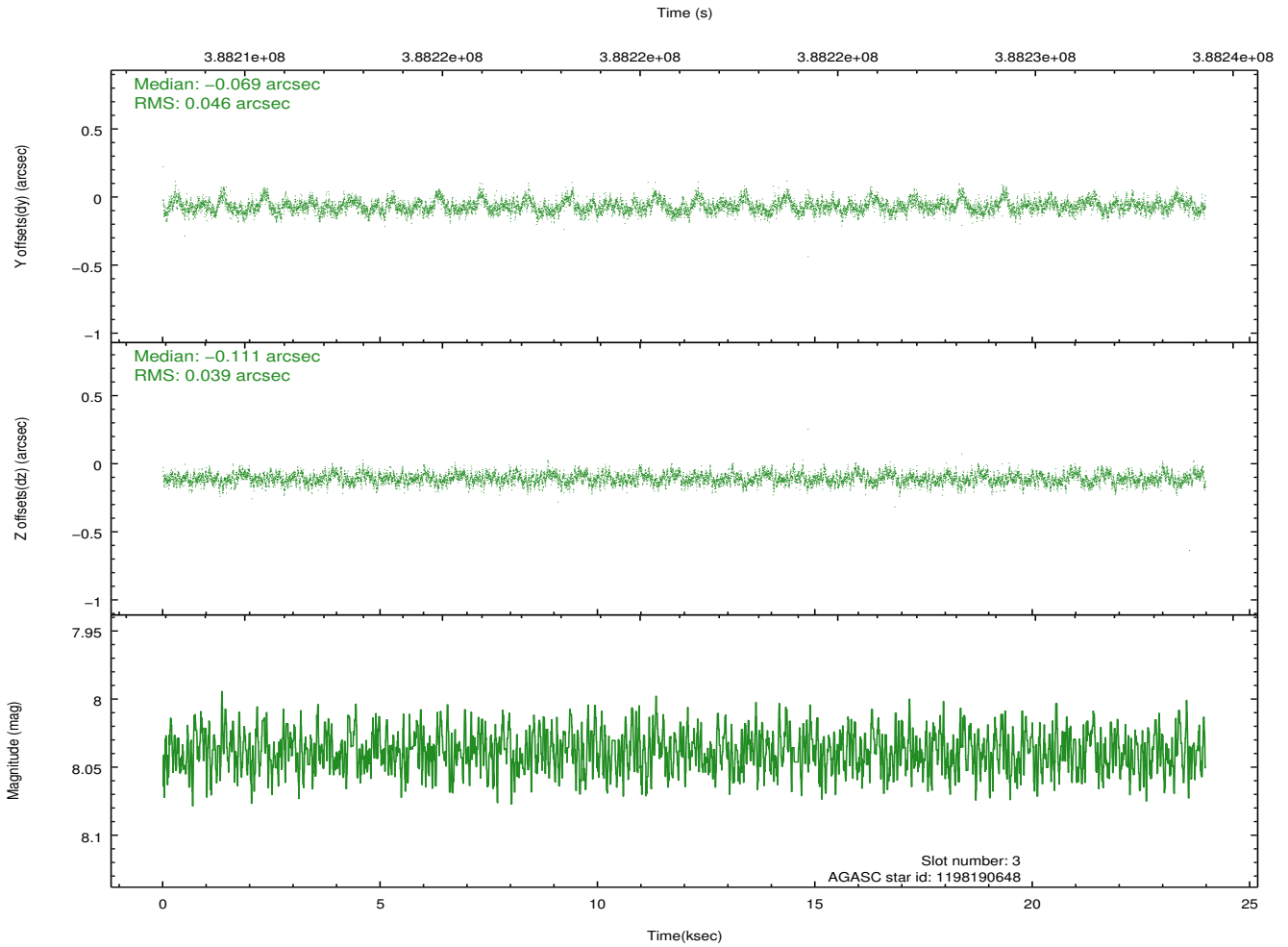
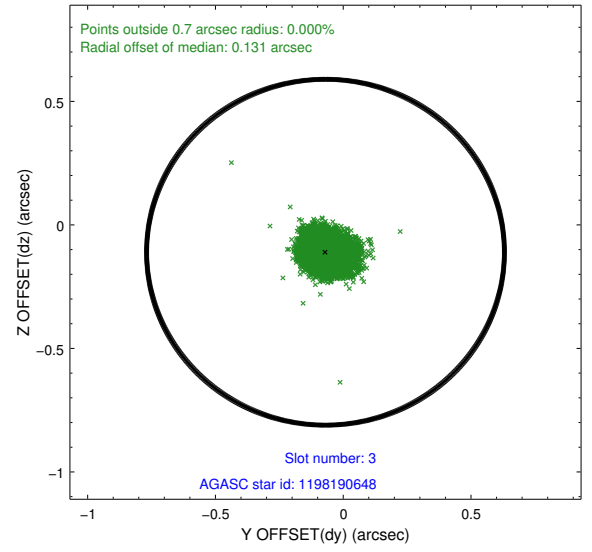
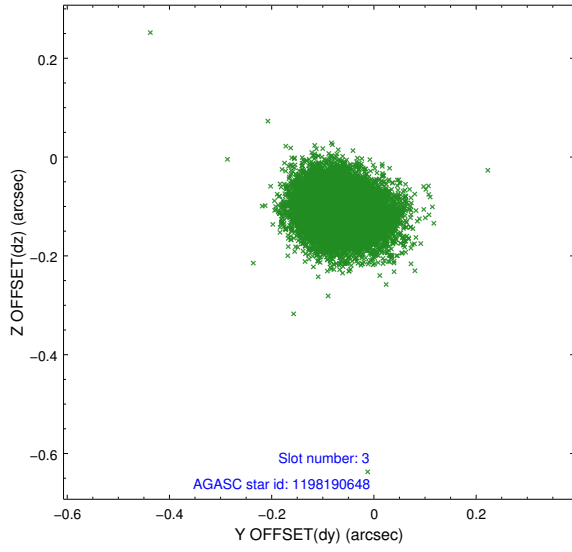


### Slot Statistics

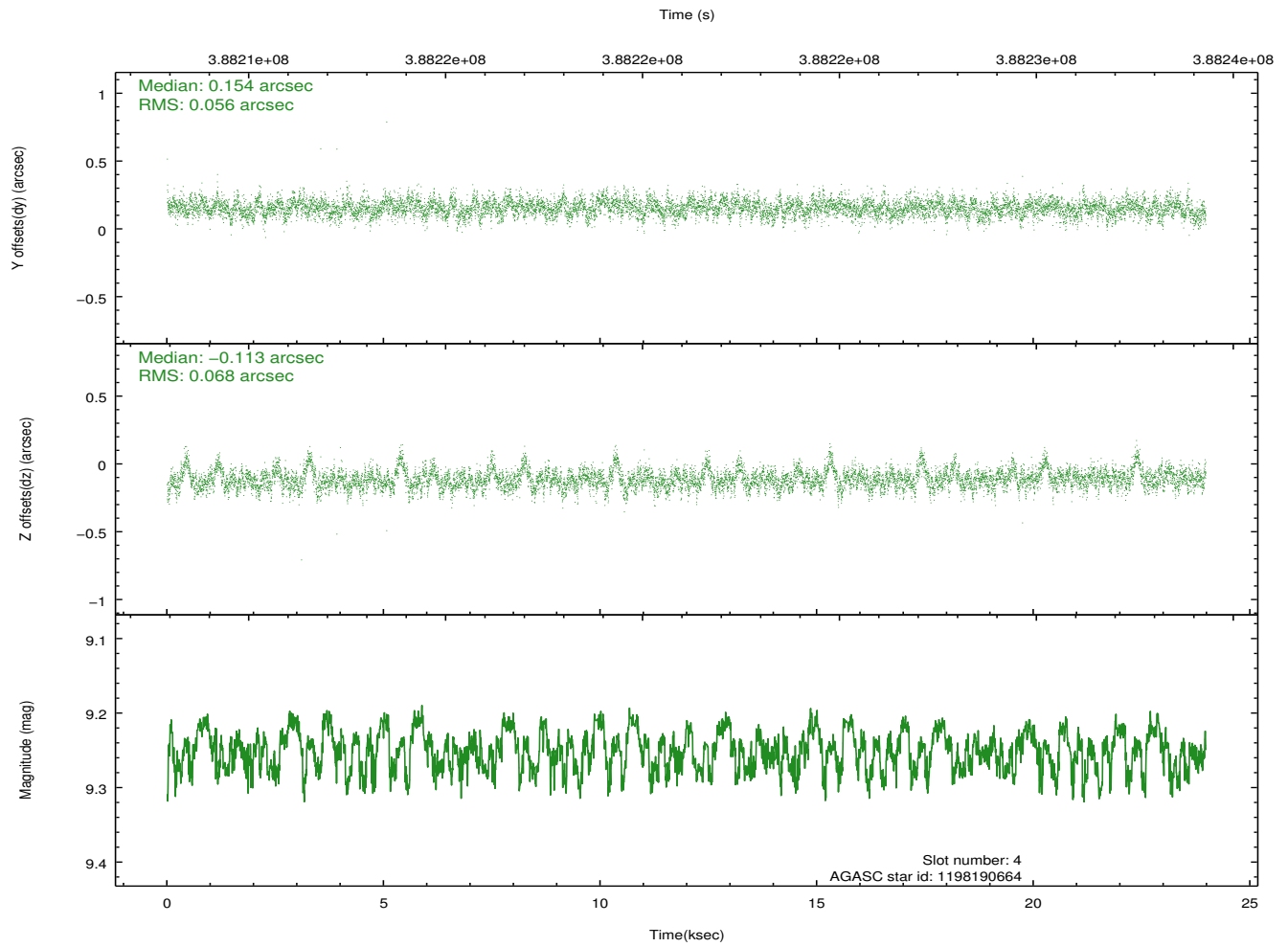
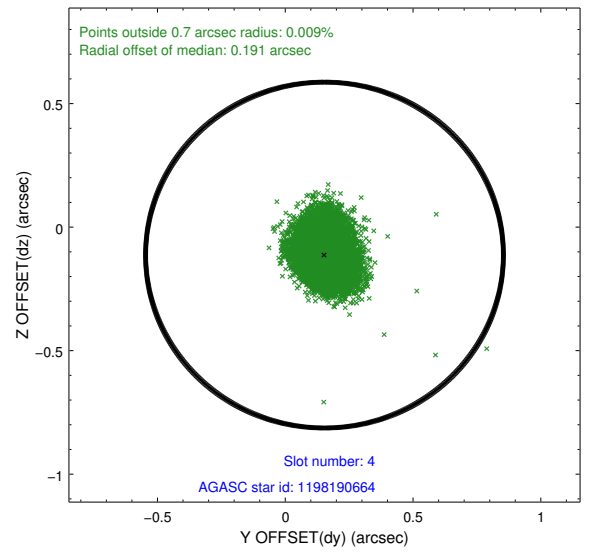
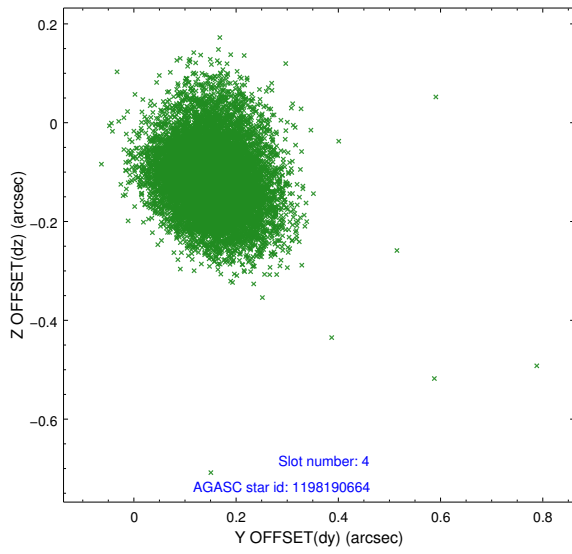
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.86	5847	-0.088	-0.019	0.010	0.018	0.000000	0.000000	-769.25	-1737.78
1	FID	ACIS-S-4	6.94	5846	0.168	0.048	0.008	0.015	0.000000	0.000000	2144.23	170.62
2	FID	ACIS-S-5	6.97	5848	-0.112	-0.021	0.009	0.017	0.000000	0.000000	-1821.94	164.39
3	GUIDE	1198190648	8.04	11692	-0.069	-0.111	0.063	0.104	12.344115	-73.478663	373.20	584.95
4	GUIDE	1198190664	9.25	11642	0.154	-0.113	0.092	0.156	14.057016	-73.825958	-1641.08	1305.00
5	GUIDE	1198191400	8.41	11689	-0.192	0.172	0.106	0.163	11.617890	-72.595865	2044.89	-2223.21
6	GUIDE	1198184872	8.69	11683	0.107	0.119	0.072	0.118	10.002911	-73.761835	2317.62	2290.20
7	GUIDE	1198192456	8.59	11690	-0.000	-0.066	0.063	0.103	13.422921	-73.869405	-1070.91	1626.14

## 2.4 Star Slots

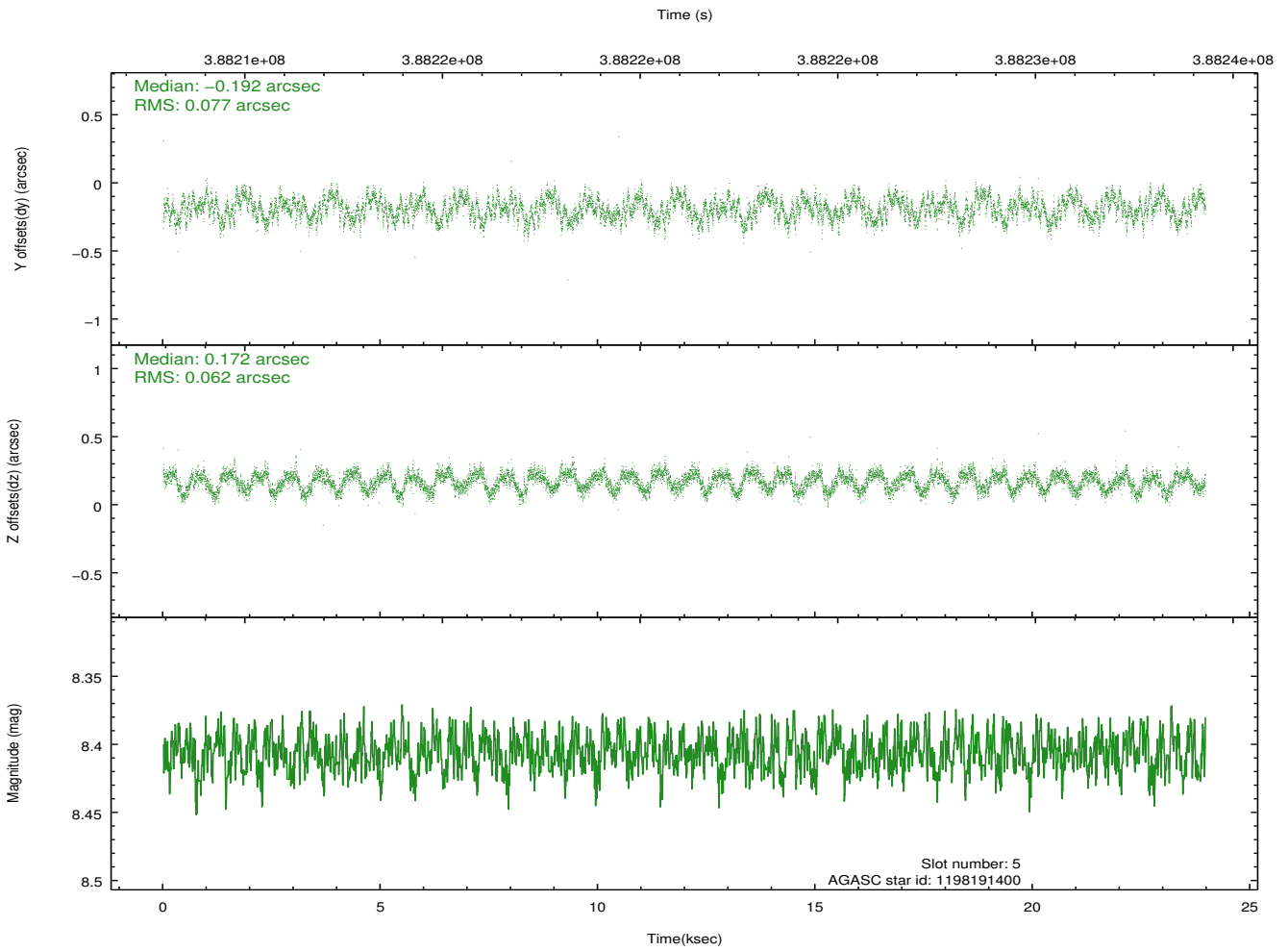
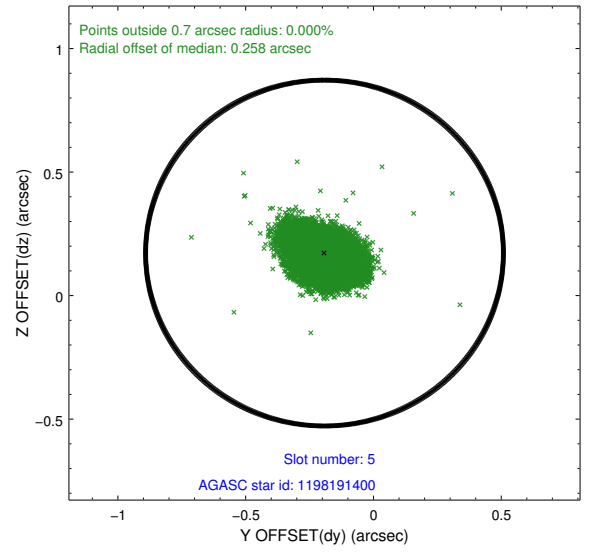
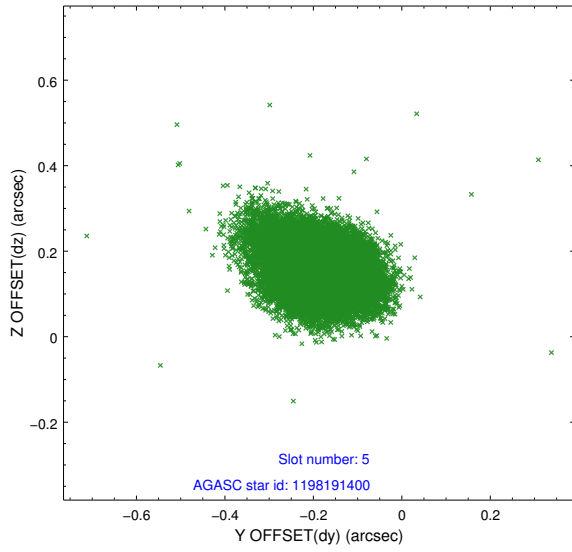
### 2.4.1 Slot 3



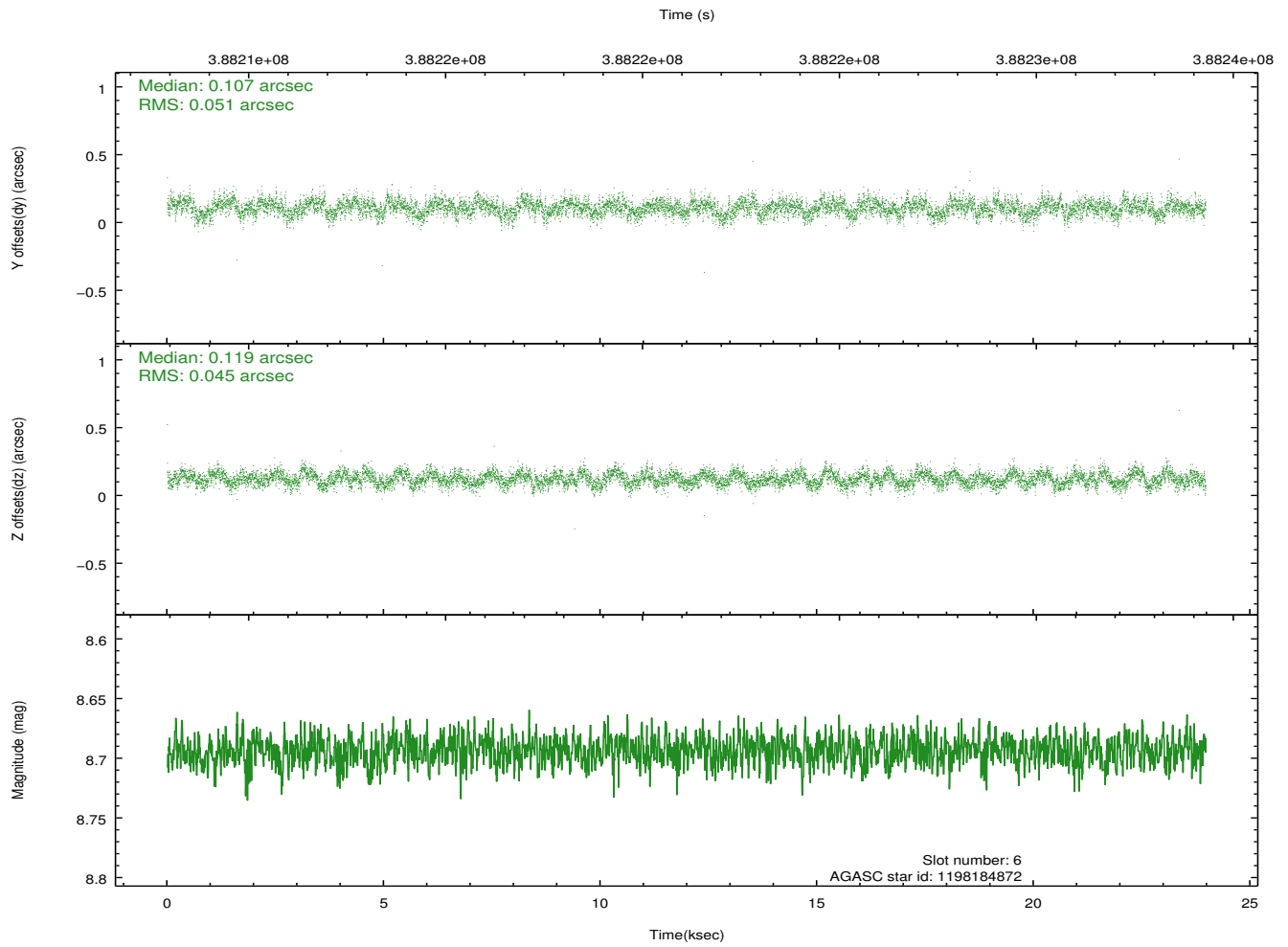
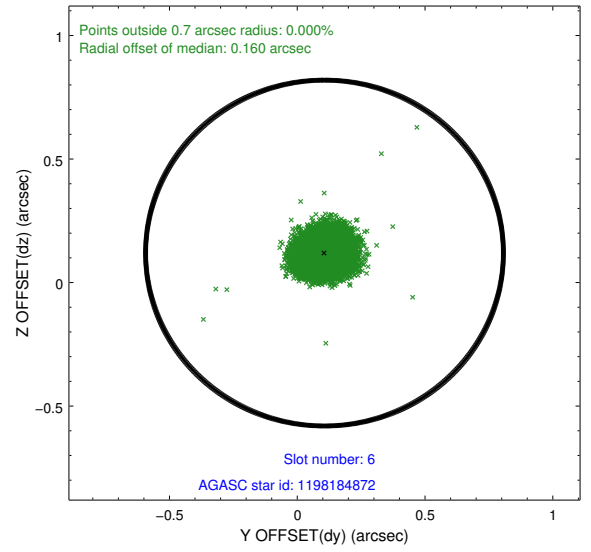
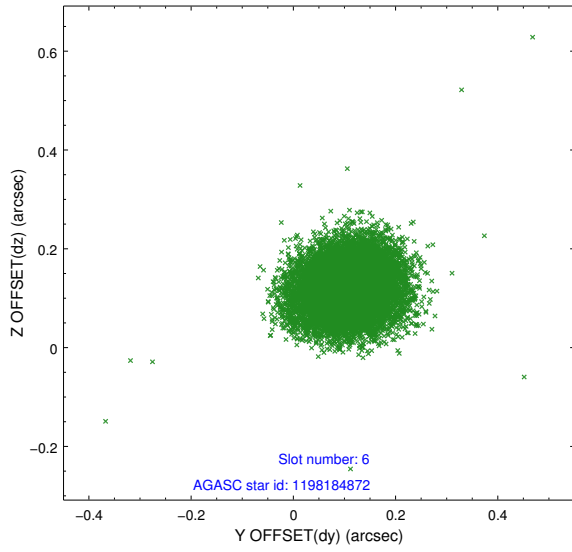
## 2.4.2 Slot 4



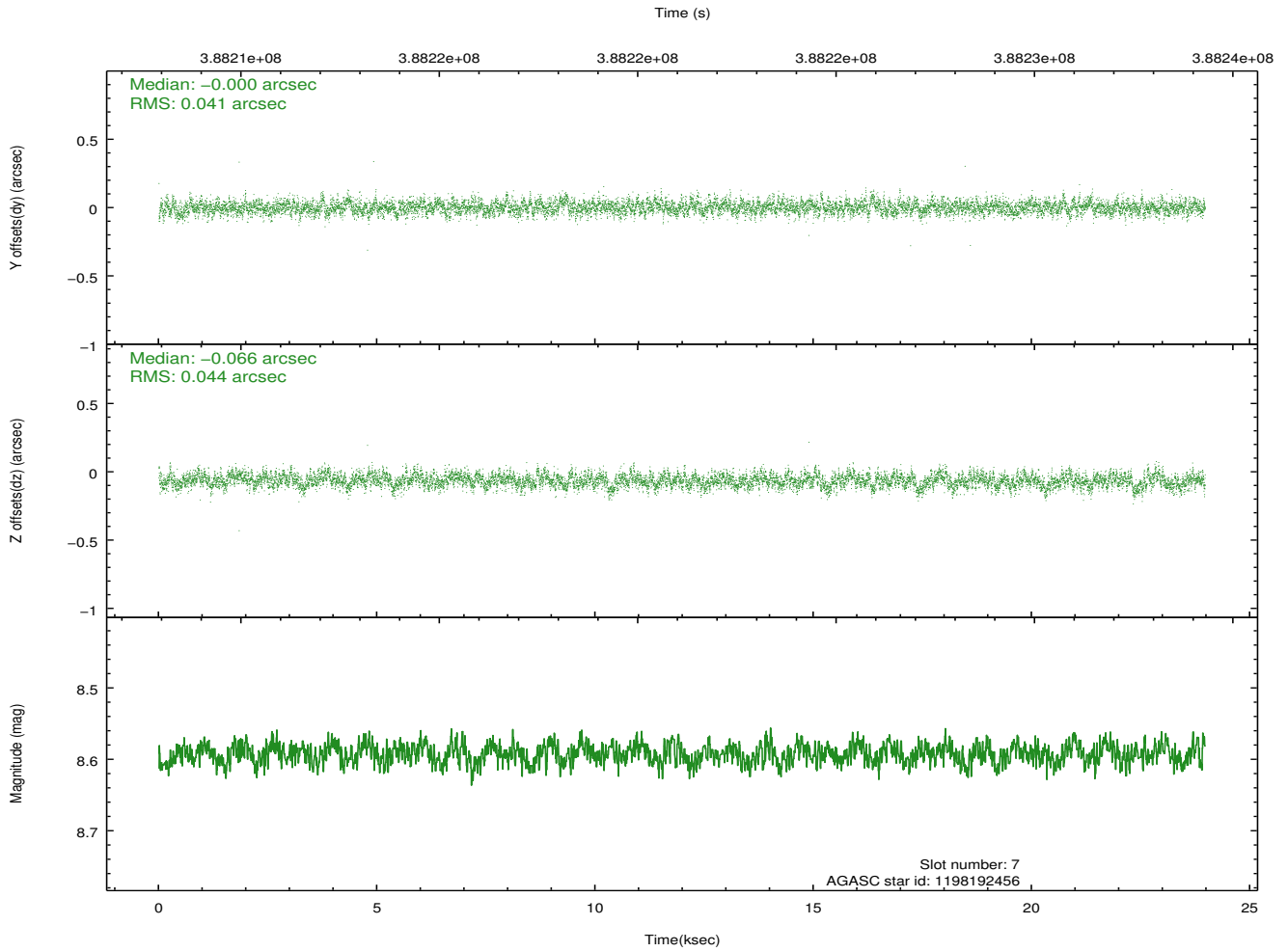
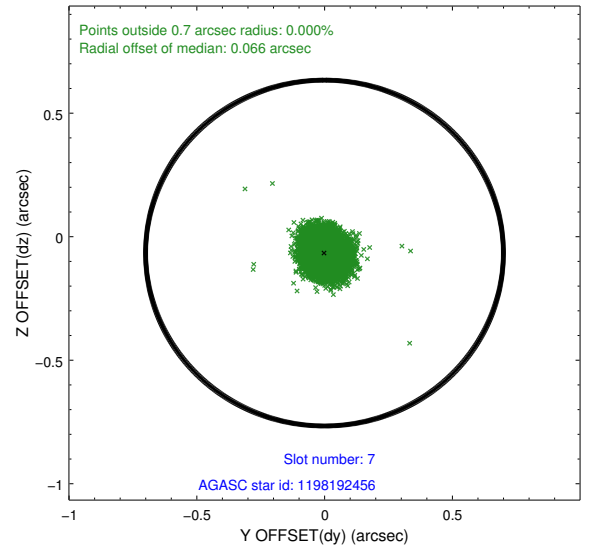
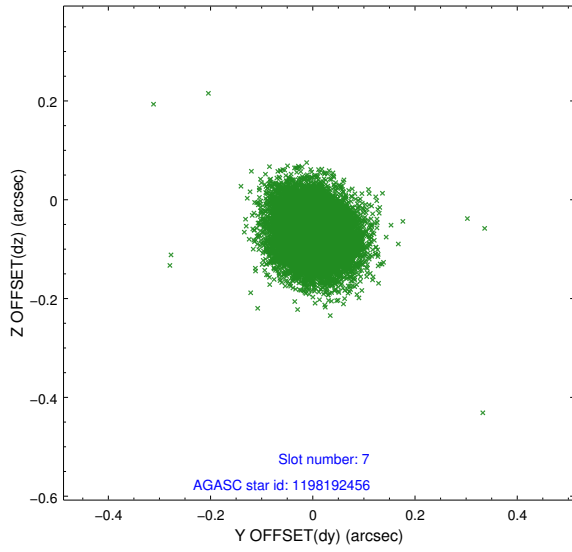
### 2.4.3 Slot 5



### 2.4.4 Slot 6

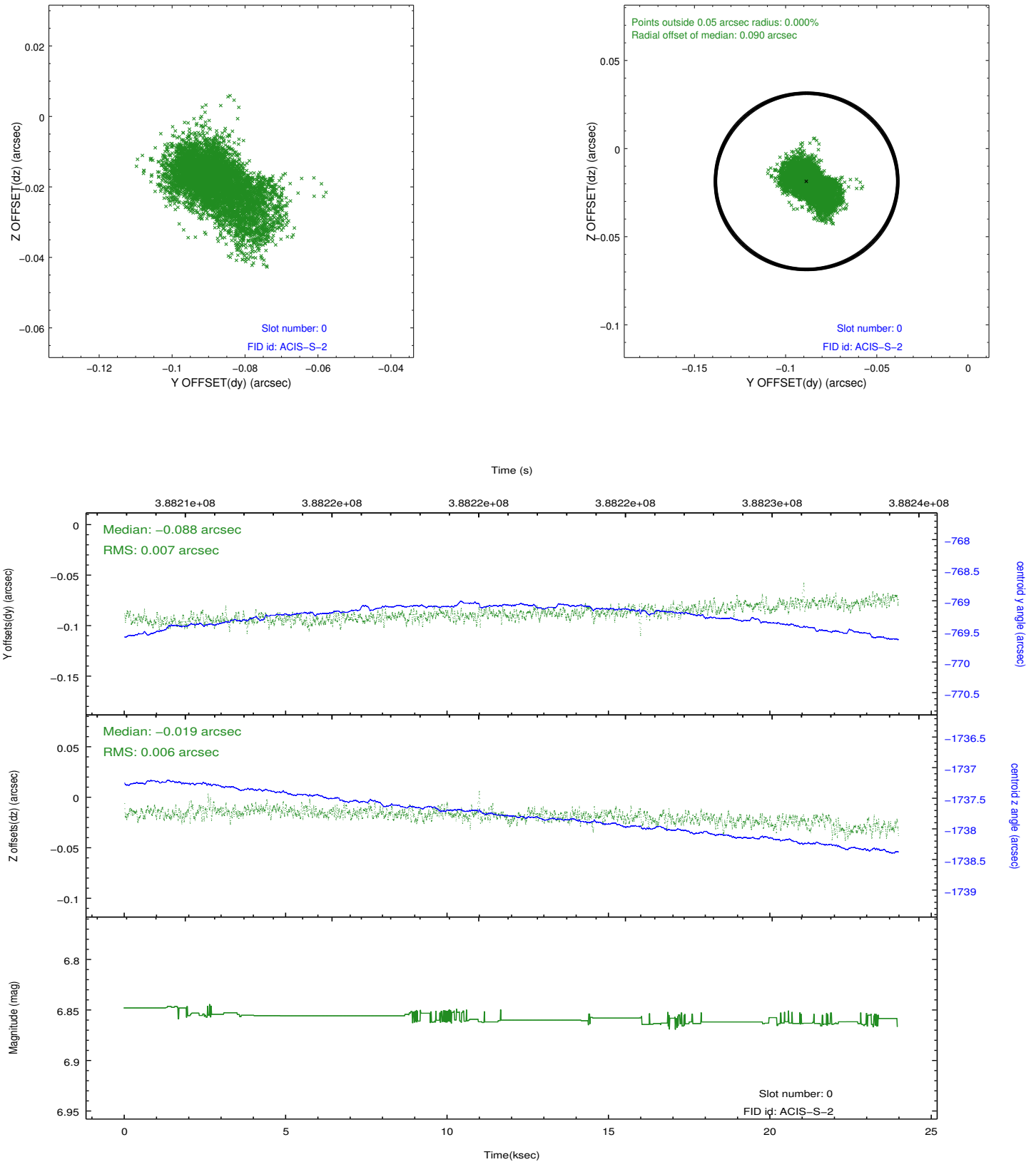


### 2.4.5 Slot 7

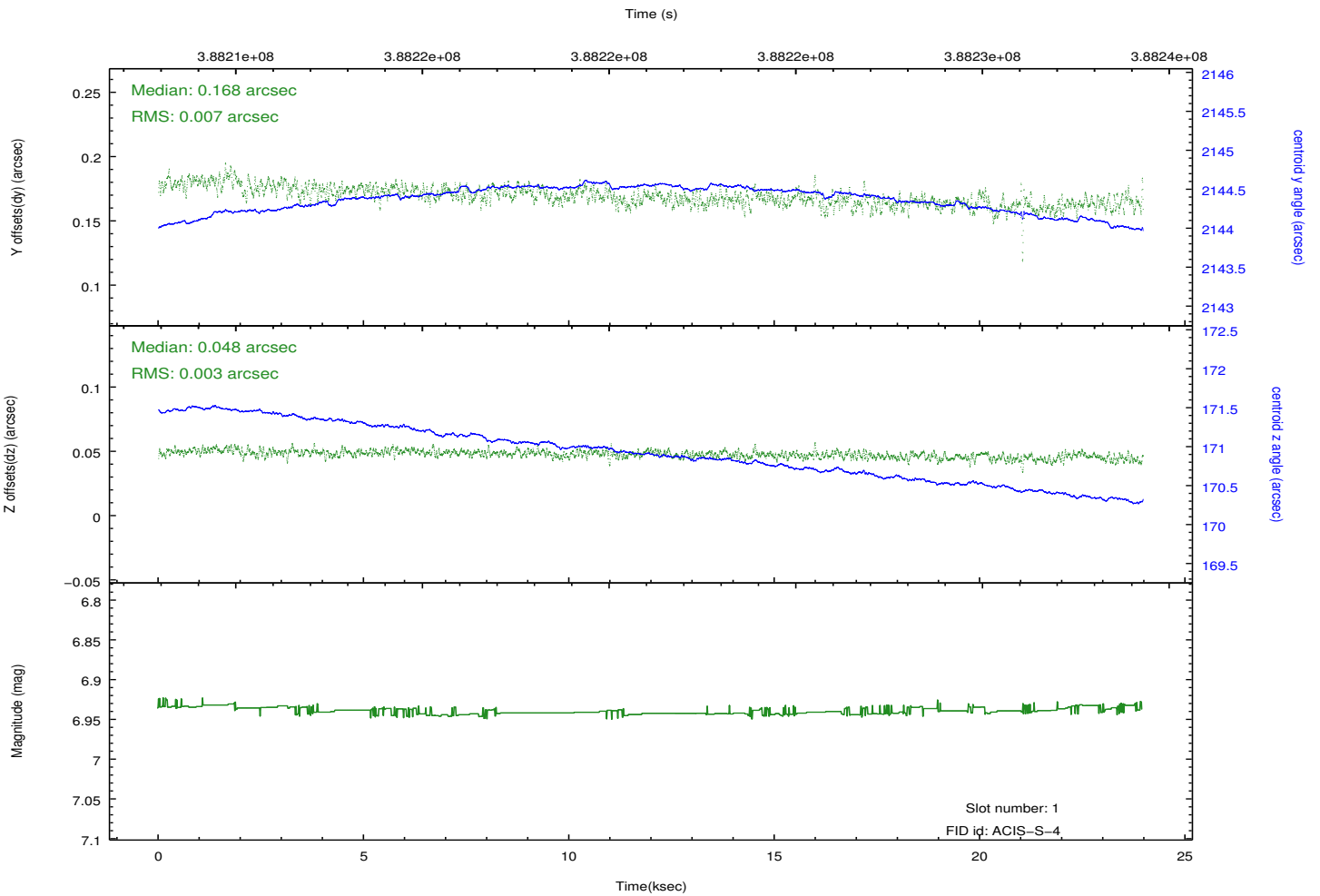
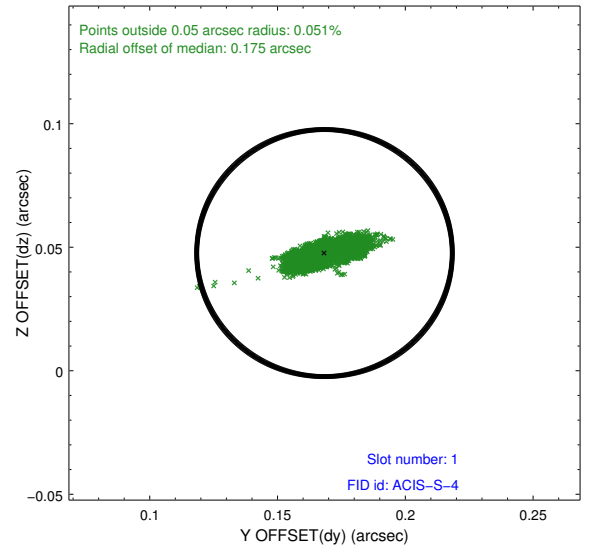
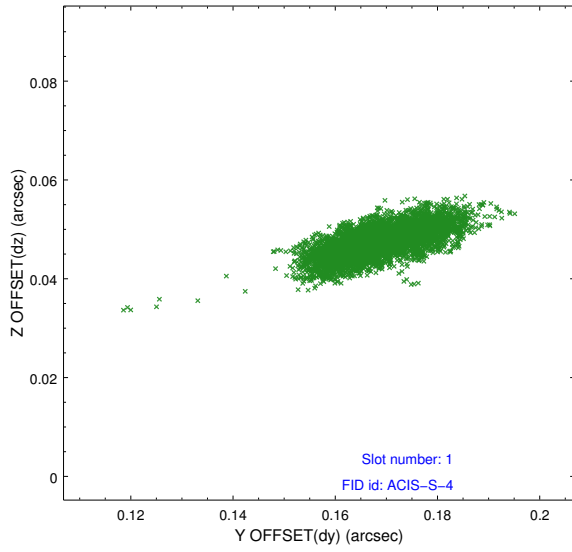


## 2.5 FID Slots

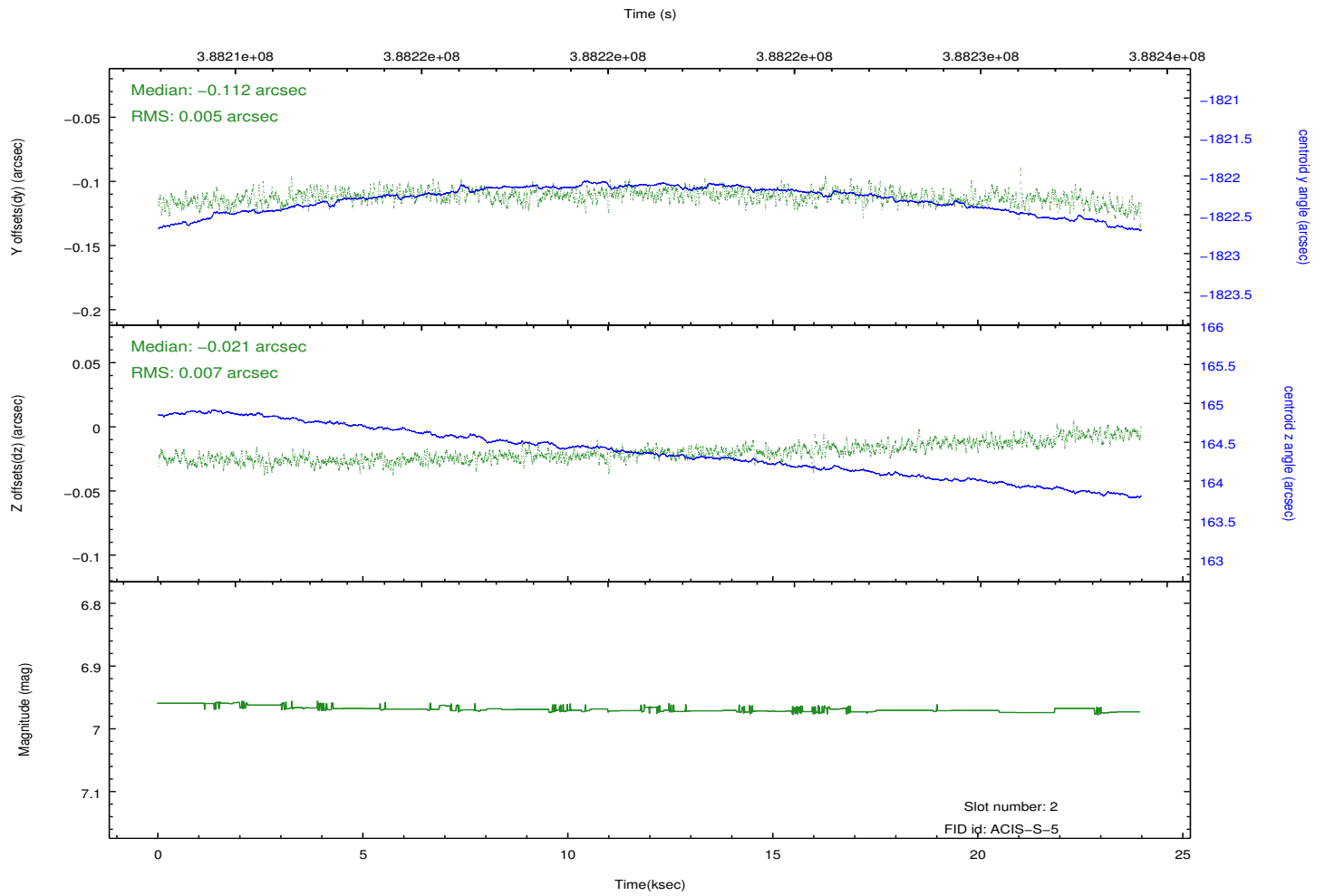
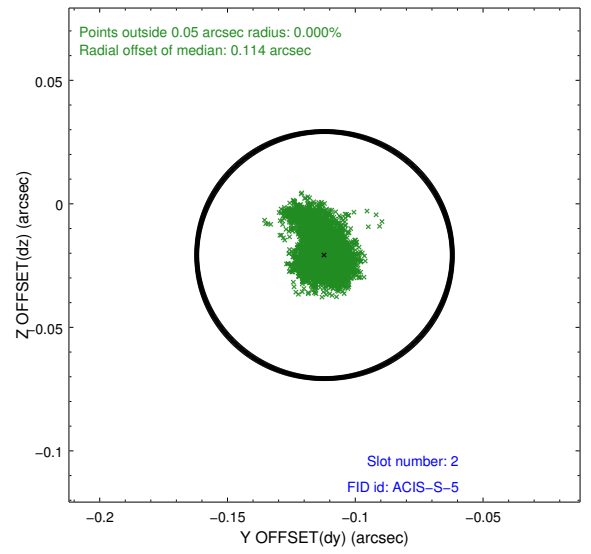
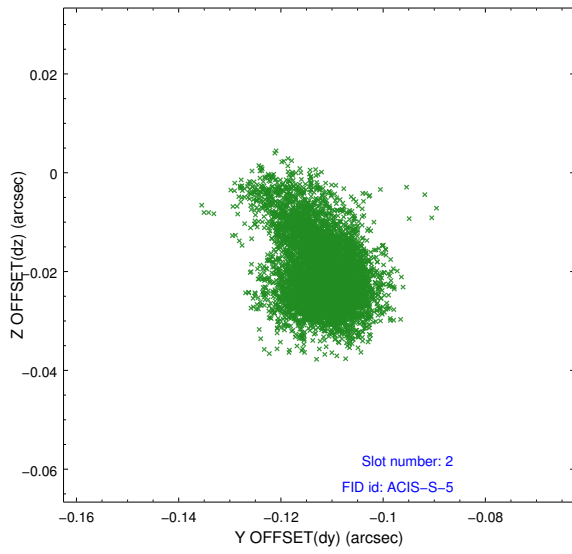
### 2.5.1 Slot 0



## 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)	2012.07.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.051600177288

## A.2 Comments