

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3033 - L2 Version 4  
Chandra X-Ray Center

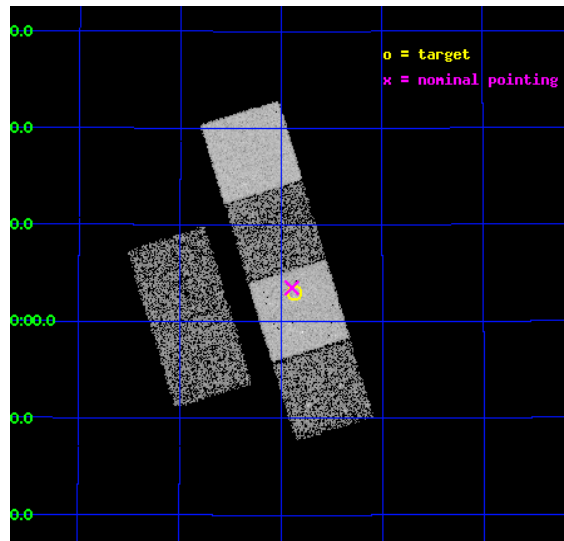
L2 Processing Date : Oct 15 2012

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# 1 Front

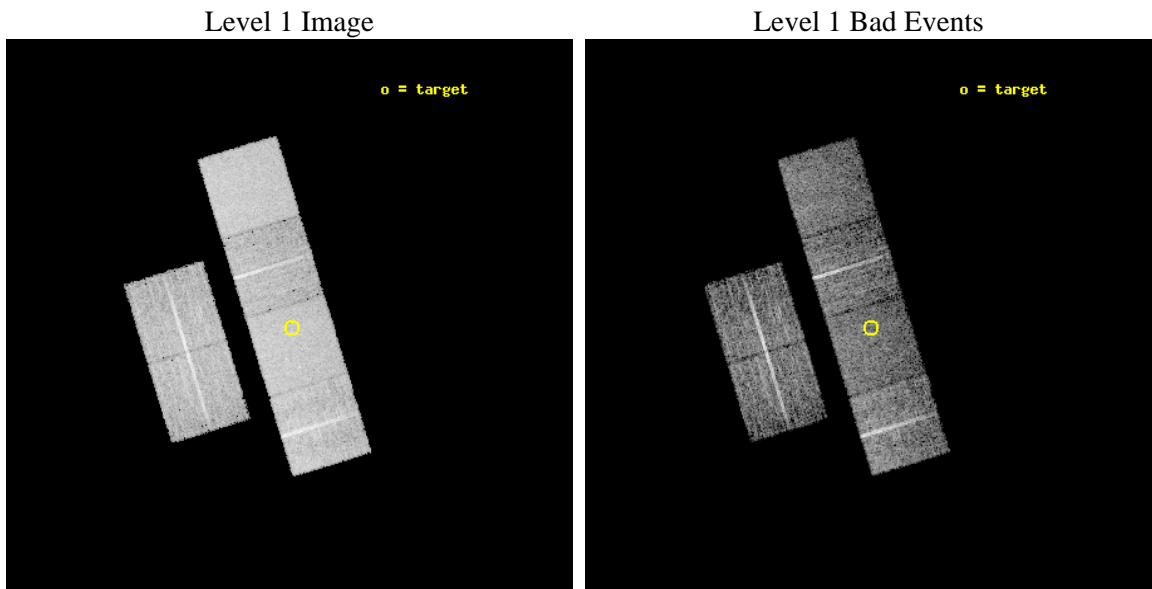
seq_num	700472	Sequence number
obs_id	3033	Observation id
title	A CHANDRA AND XMM-NEWTON STUDY OF THE MOST DISTANT QUASARS: X-RAYING THE FIRST MASSIVE BLACK HOLES	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS075652+450258	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	119.217083	Observer's specified target RA [deg]
dec_targ	45.049694	Observer's specified target Dec [deg]
ra_nom	119.2234172302	Nominal RA [deg]
dec_nom	45.058289442208	Nominal Dec [deg]
roll_nom	73.023747453613	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7054.6718409061	Sum of GTIs [s]
livetime	6965.3413382432	Livetime [s]
ontime2	7054.7128809094	Sum of GTIs [s]
ontime3	7054.5487208962	Sum of GTIs [s]
ontime5	7054.6308009028	Sum of GTIs [s]
ontime6	7054.5897608995	Sum of GTIs [s]
ontime7	7054.6718409061	Sum of GTIs [s]
ontime8	7051.2667305768	Sum of GTIs [s]
l2events	70038	Number of level 2 events



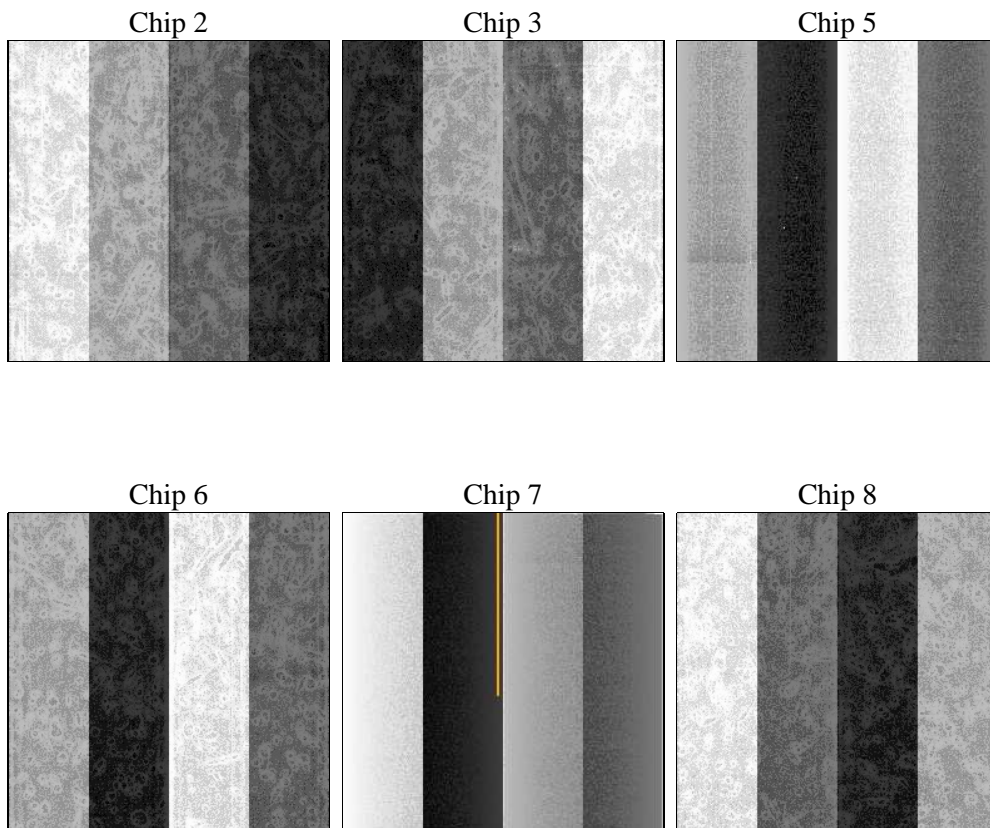
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	7300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7054.6718409061	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	7054.7128809094	Sum of GTIs [s]
date	2012-10-15T12:47:42	Date and time of file creation	ontime3	7054.5487208962	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	7054.6308009028	Sum of GTIs [s]
			ontime6	7054.5897608995	Sum of GTIs [s]
			ontime7	7054.6718409061	Sum of GTIs [s]
			ontime8	7051.2667305768	Sum of GTIs [s]
			l1events	311906	Number of level 1 events

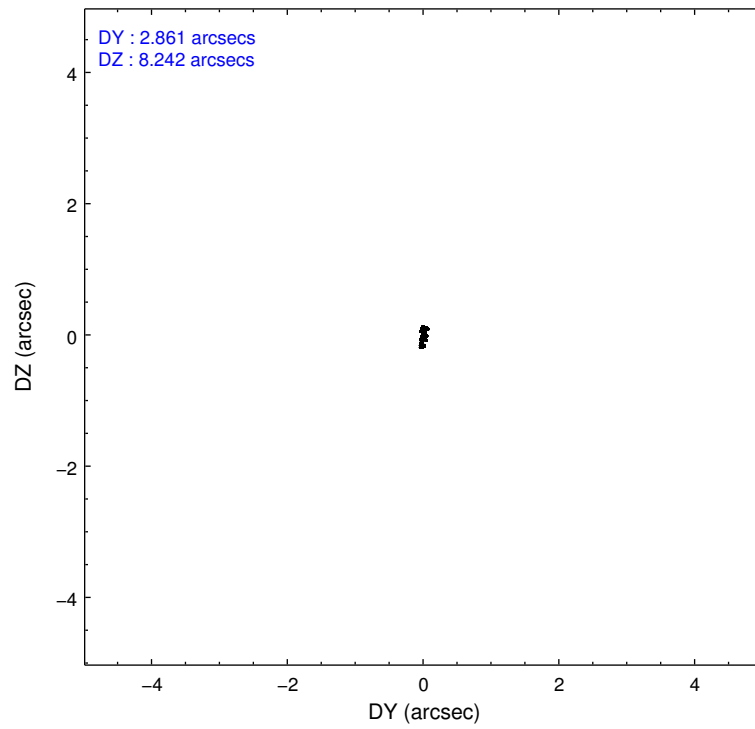
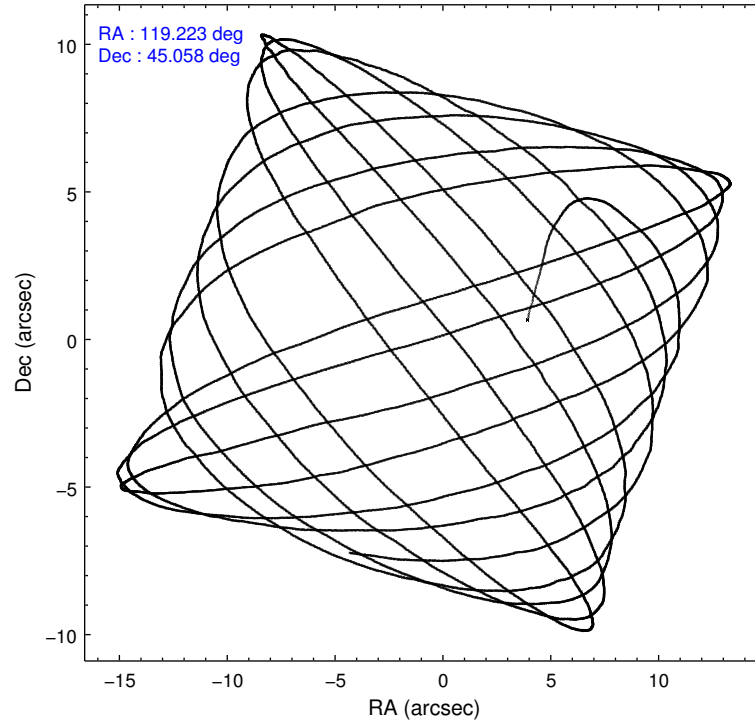
### 2.1.4 Events

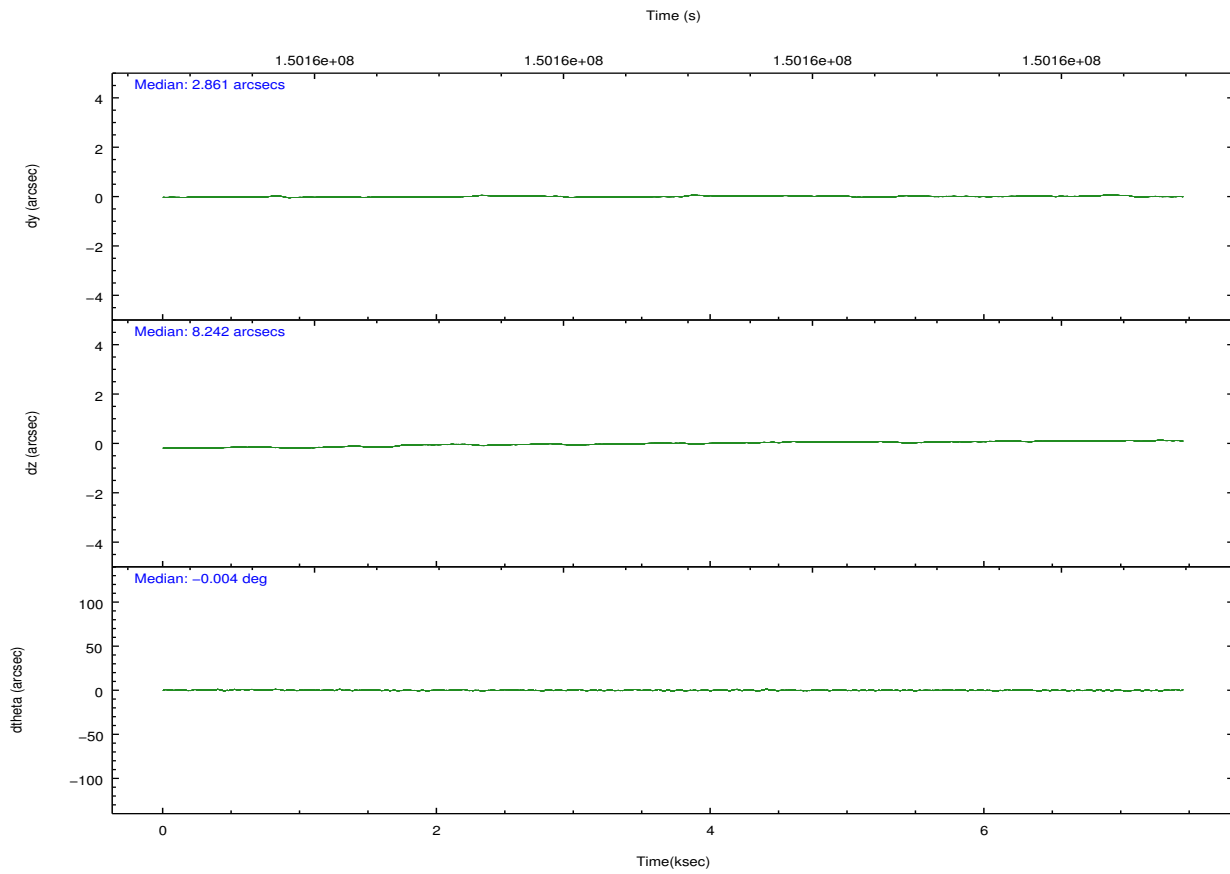
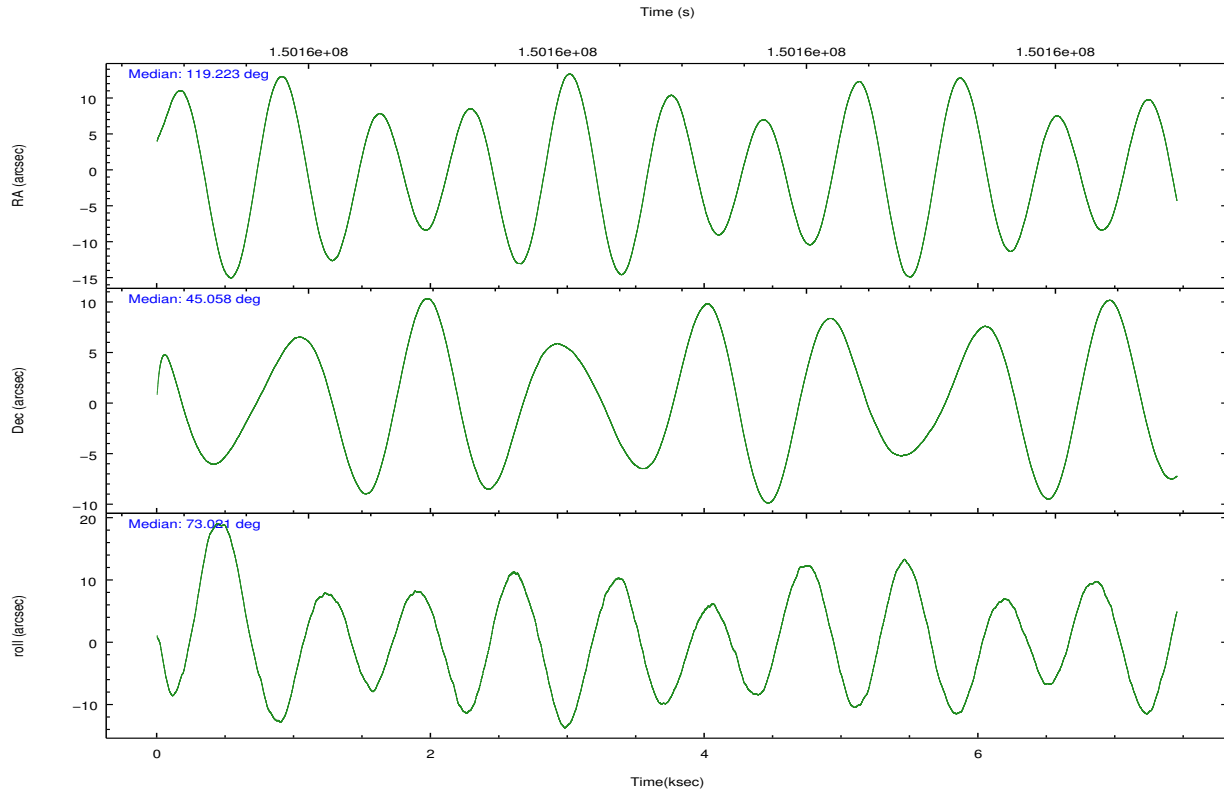
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	44869	44253	62507	43450	58446	58381	grade 0 events	2340	2213	1819	2092	2314	3641
rejected events	39630	39172	34558	38134	34032	47106		5%	5%	2%	4%	3%	6%
rejected %	88%	88%	55%	87%	58%	80%	grade 1 events	25	26	61	16	45	44
								0%	0%	0%	0%	0%	0%
							grade 2 events	1060	932	8277	1082	4741	2390
								2%	2%	13%	2%	8%	4%
							grade 3 events	460	509	1206	565	2241	1353
								1%	1%	1%	1%	3%	2%
							grade 4 events	492	530	1149	513	2179	1101
								1%	1%	1%	1%	3%	1%
							grade 5 events	1724	1868	4712	1983	5427	2502
								3%	4%	7%	4%	9%	4%
							grade 6 events	892	897	15506	1069	12948	2792
								1%	2%	24%	2%	22%	4%
							grade 7 events	37876	37278	29777	36130	28551	44558
								84%	84%	47%	83%	48%	76%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	119.232499	119.2234172301997	Subarray requested	NONE	NONE
[deg] Pointing Dec	45.031863	45.05828944220799	Alternating exposures requested	N	N
[deg] Pointing Roll	72.860696	73.0237474536135	[s] Primary exposure time	0.000000	3.2
[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)	150155307.184000	150154299.33795			
Observation start date	2002-10-04T21:47:23	2002-10-04T21:31:39			
[s] Observation end time (MET)	150162607.184000	150163136.88831			
Observation end date	2002-10-04T23:49:03	2002-10-04T23:58:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect



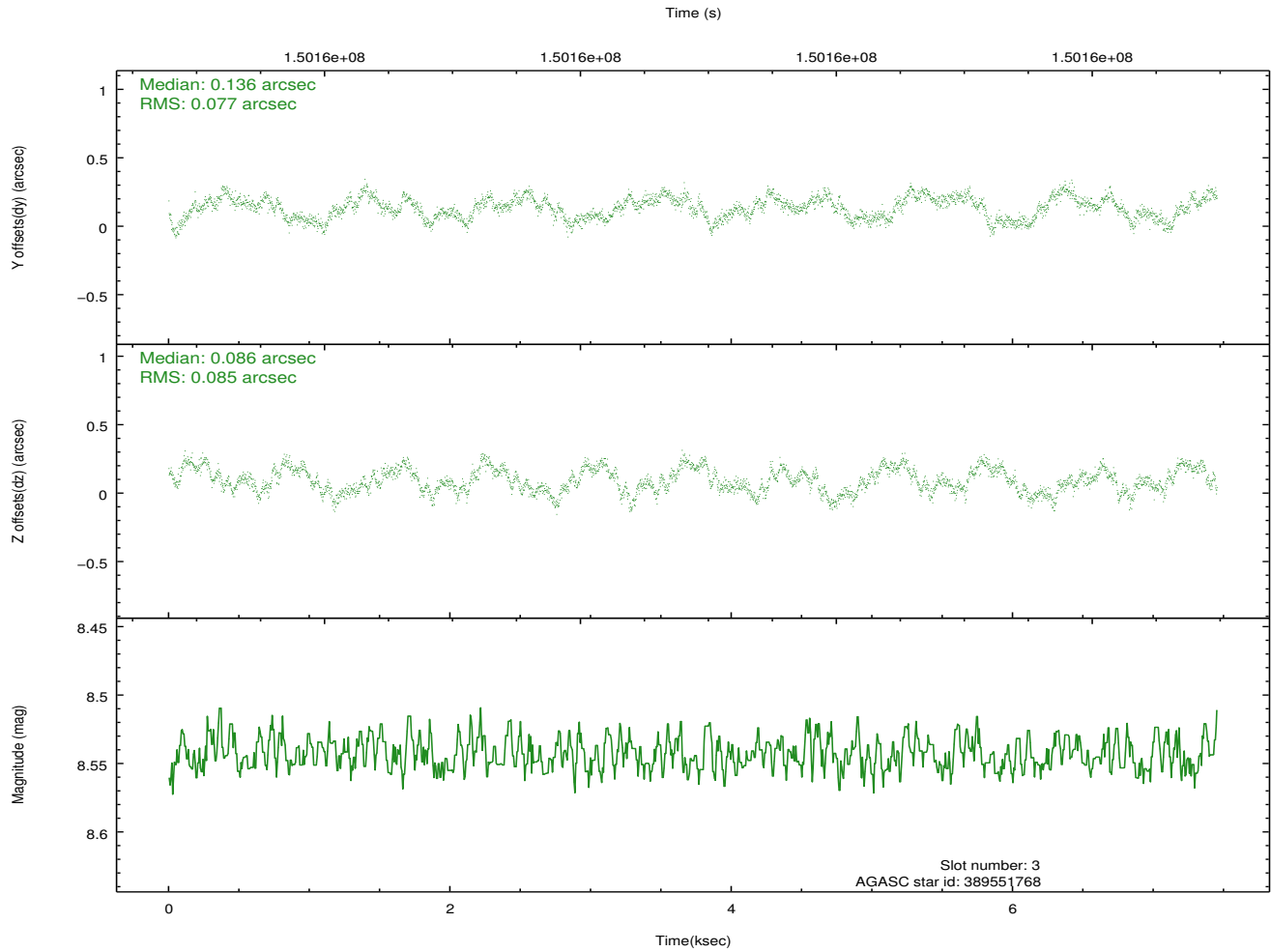
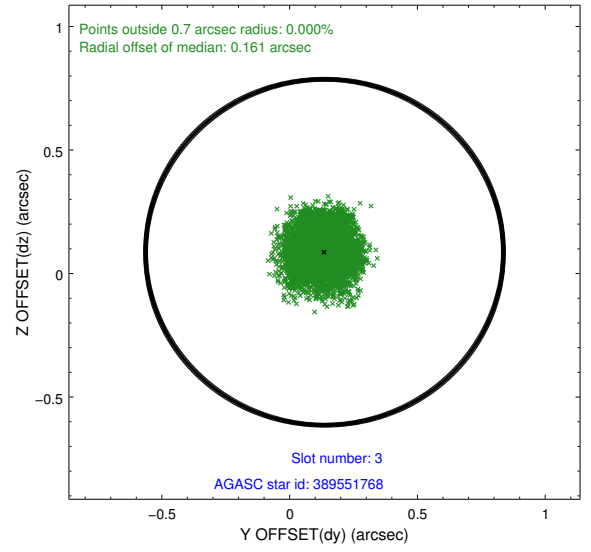
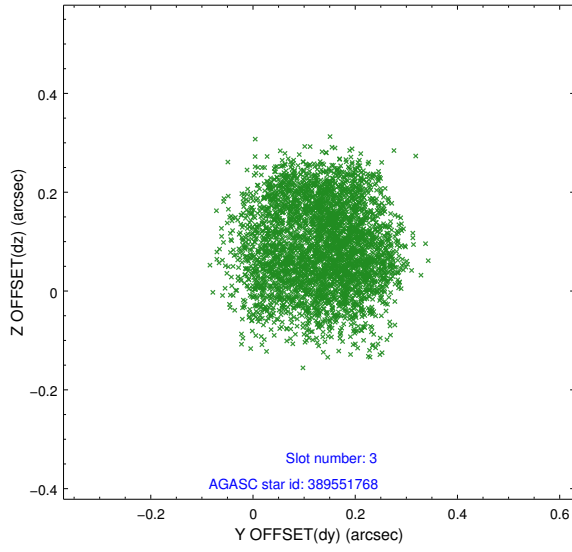


### Slot Statistics

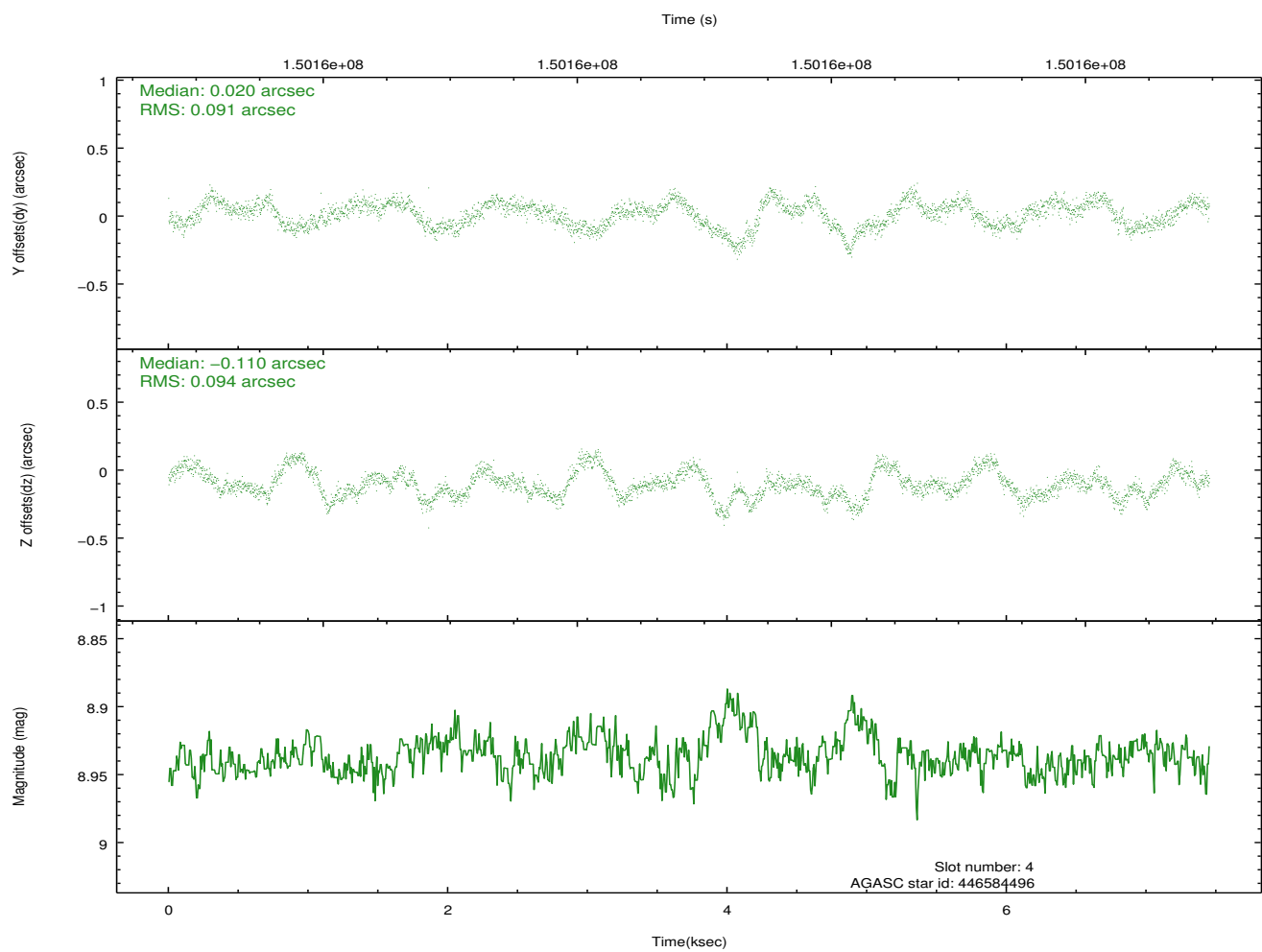
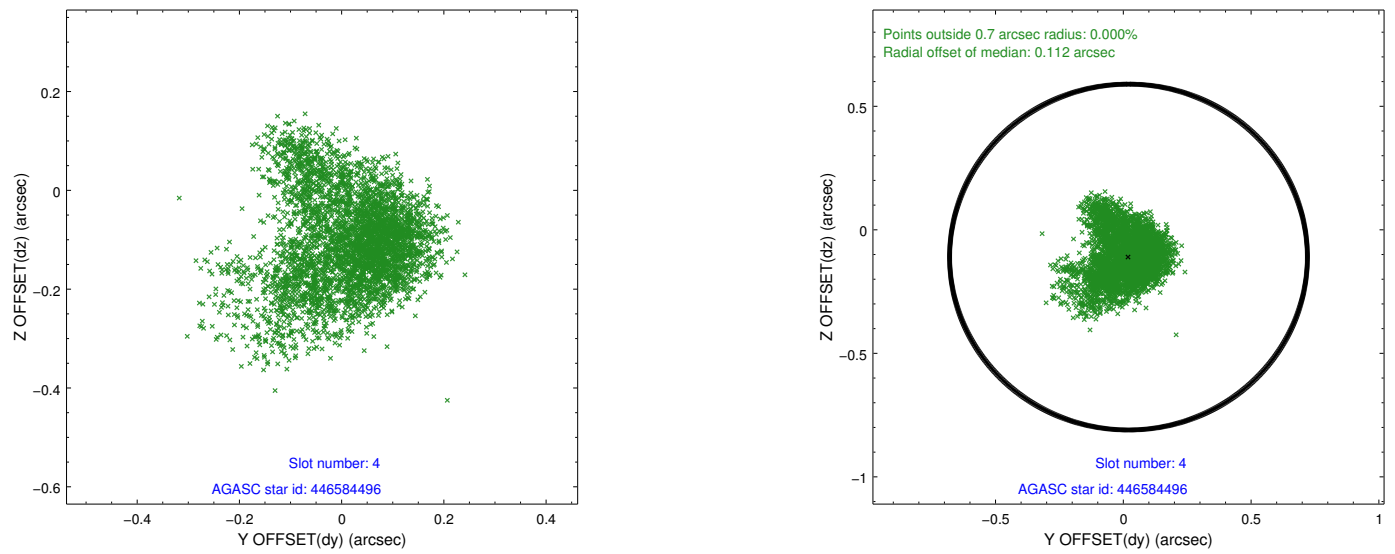
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1818	-0.009	-0.005	0.007	0.011	0.000000	0.000000	-755.52	-1729.42
1	FID	ACIS-S-4	7.20	1818	-0.013	0.006	0.006	0.010	0.000000	0.000000	2157.42	178.26
2	FID	ACIS-S-5	7.24	1818	-0.009	0.009	0.006	0.010	0.000000	0.000000	-1807.37	172.83
3	GUIDE	389551768	8.54	3635	0.136	0.086	0.129	0.182	119.819971	44.851778	-170.10	-1622.16
4	GUIDE	446584496	8.94	3633	0.020	-0.110	0.136	0.235	119.228964	45.450262	1438.62	451.78
5	GUIDE	446584000	9.17	3635	-0.176	-0.183	0.122	0.189	119.002392	45.530960	1548.85	1084.16
6	GUIDE	389546112	9.25	3634	0.109	0.145	0.460	0.602	119.384051	44.647002	-1206.74	-778.74
7	GUIDE	446586104	9.98	3634	-0.119	0.092	0.150	0.232	119.831654	45.415911	1773.73	-1037.75

## 2.4 Star Slots

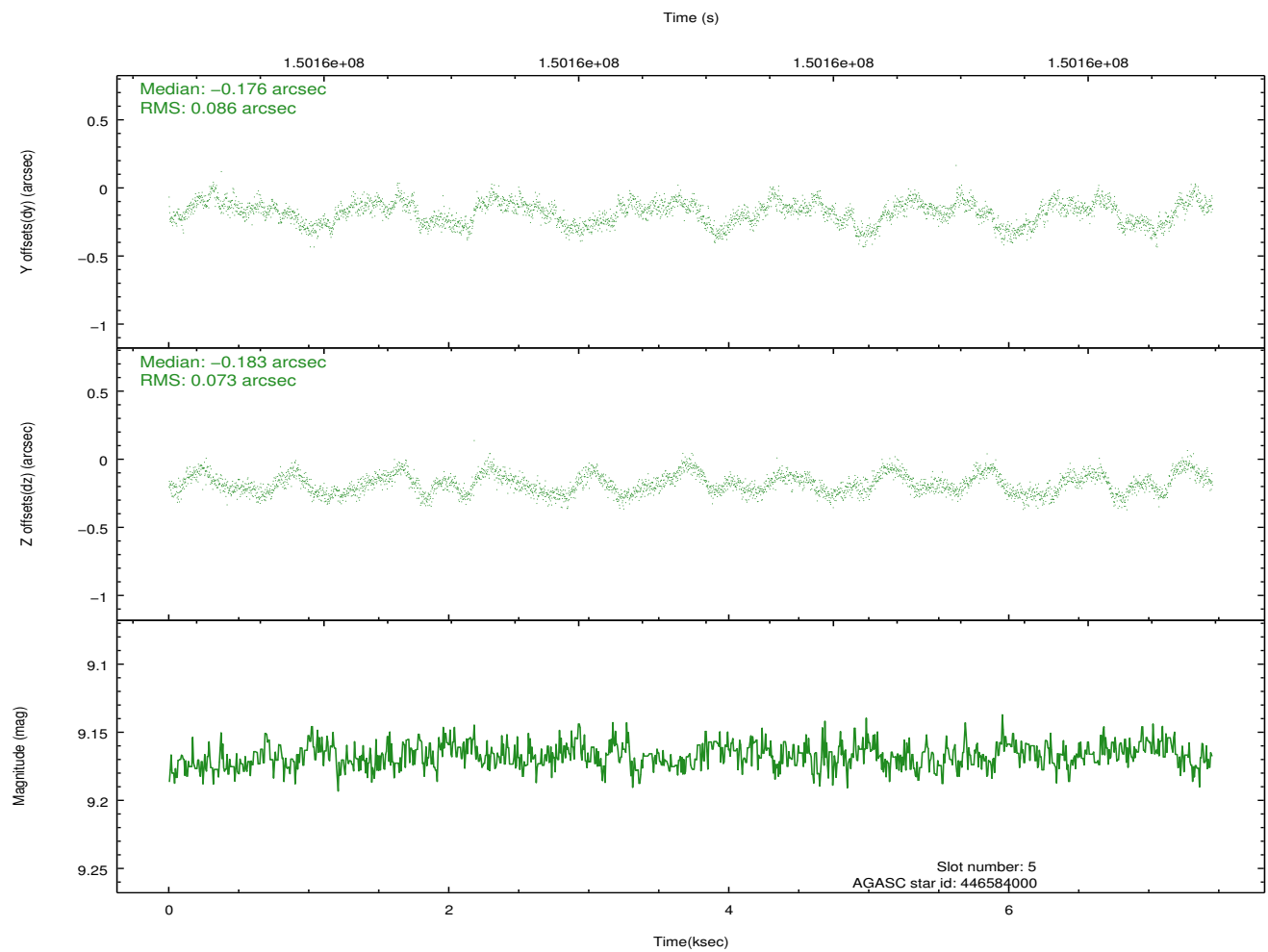
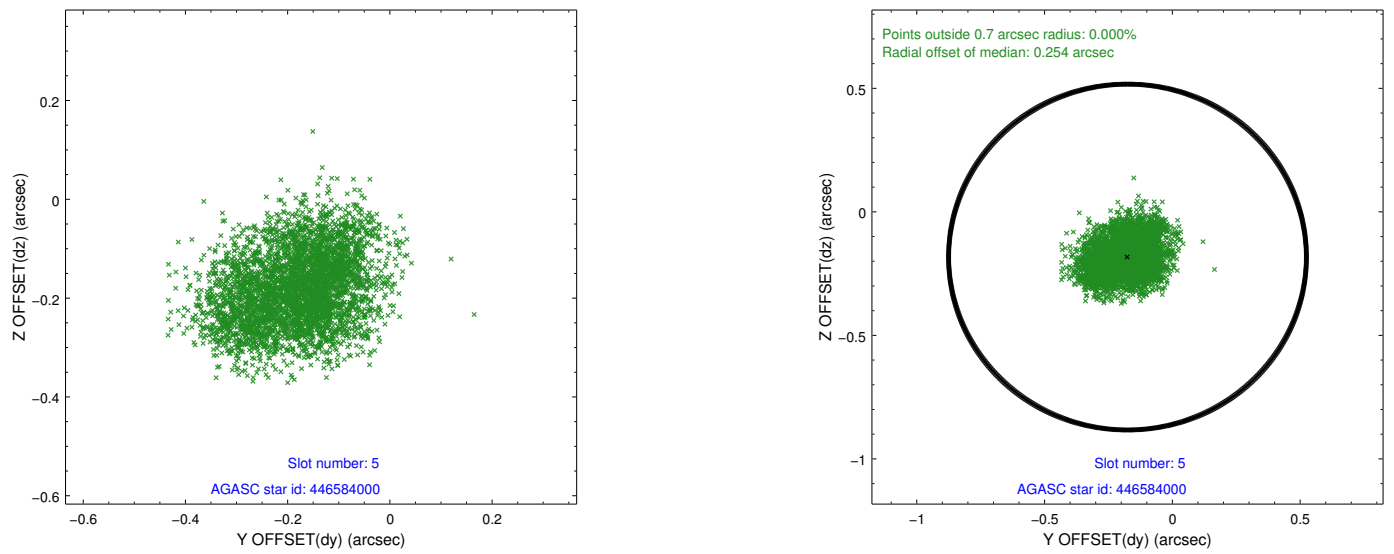
### 2.4.1 Slot 3



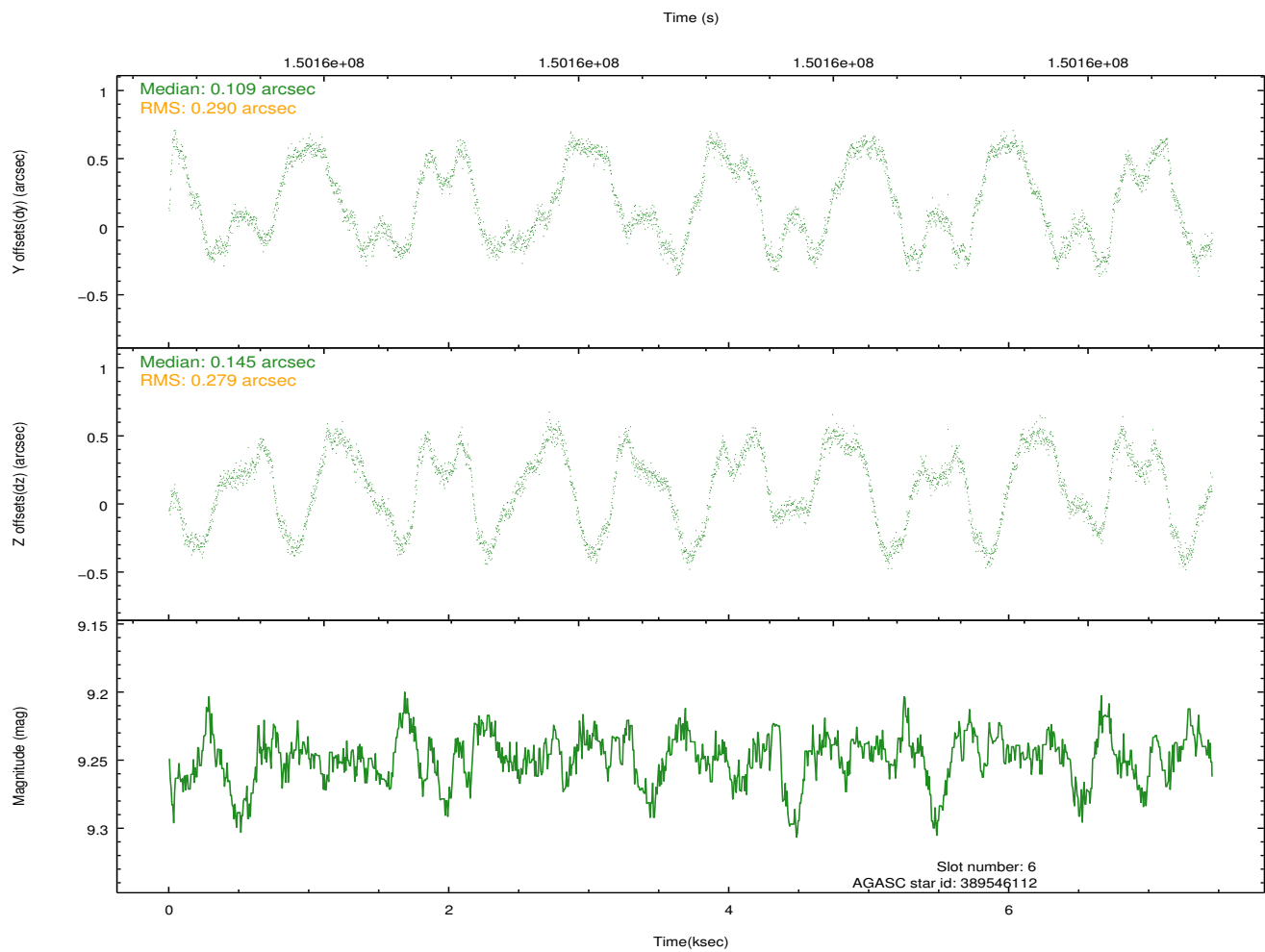
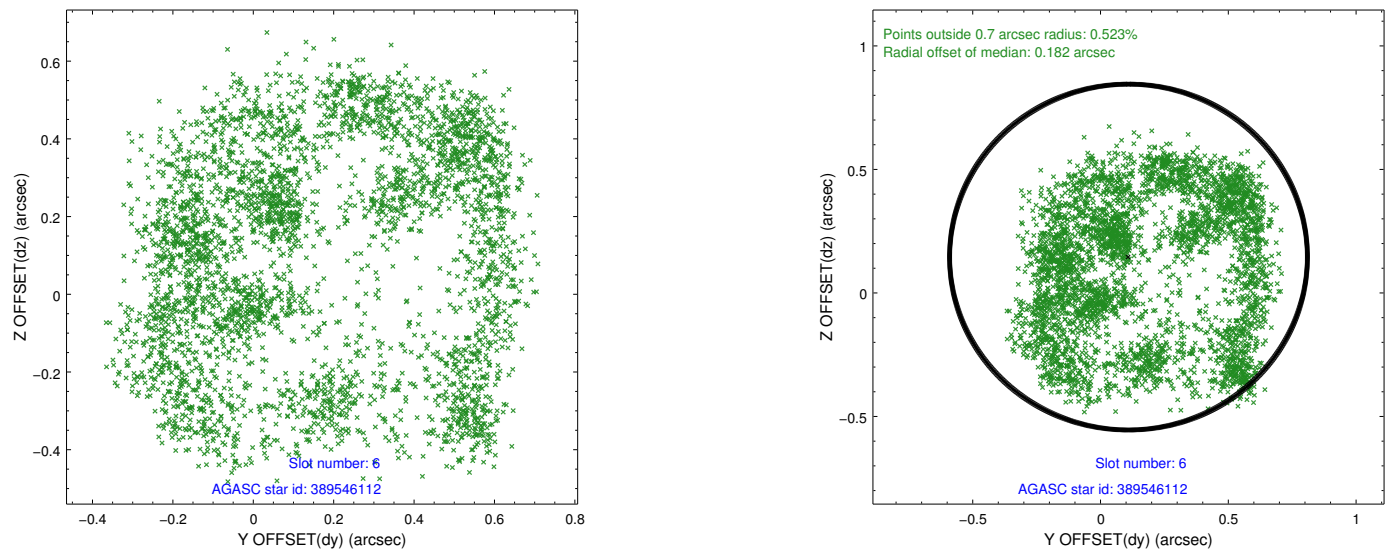
## 2.4.2 Slot 4



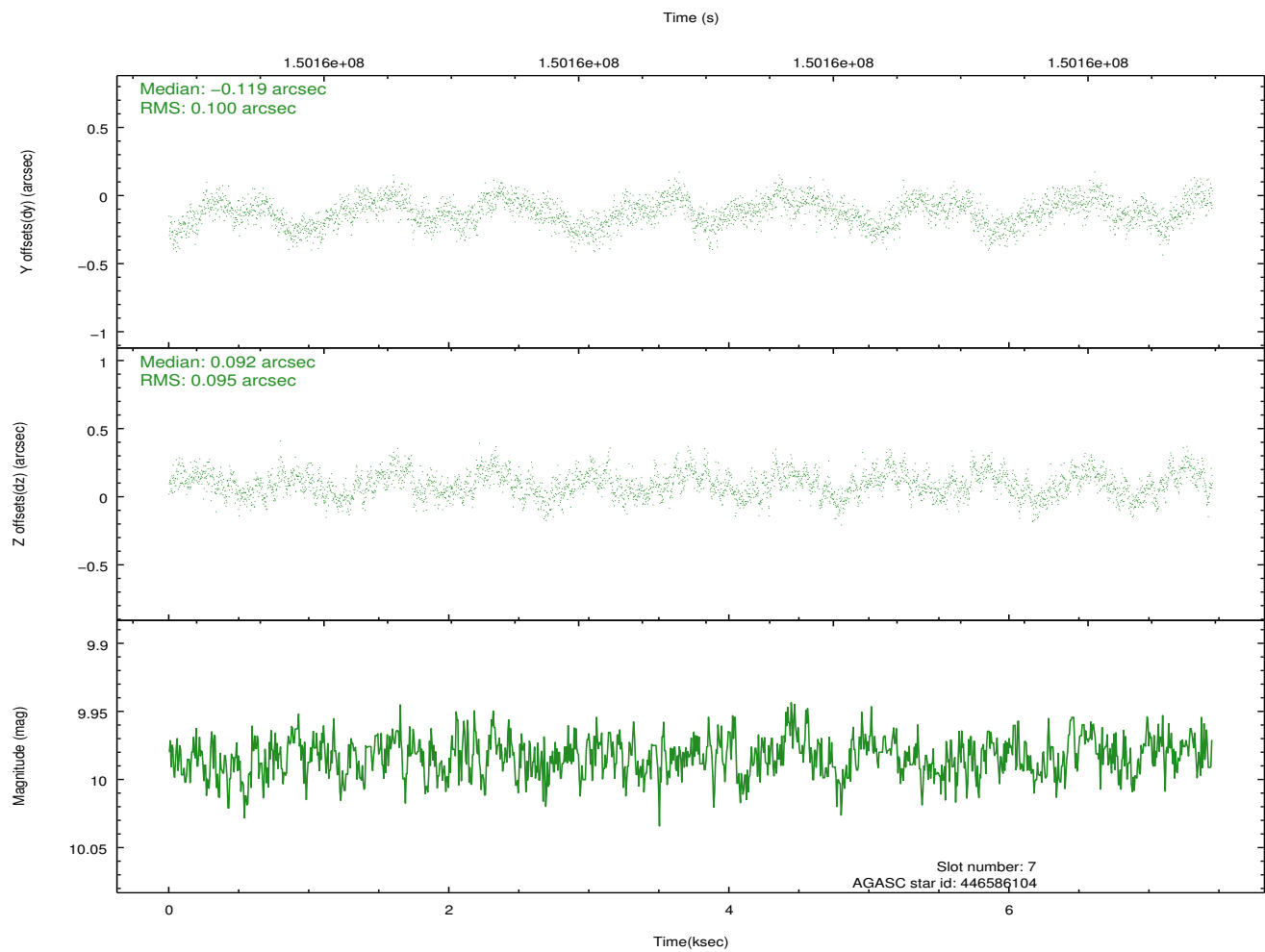
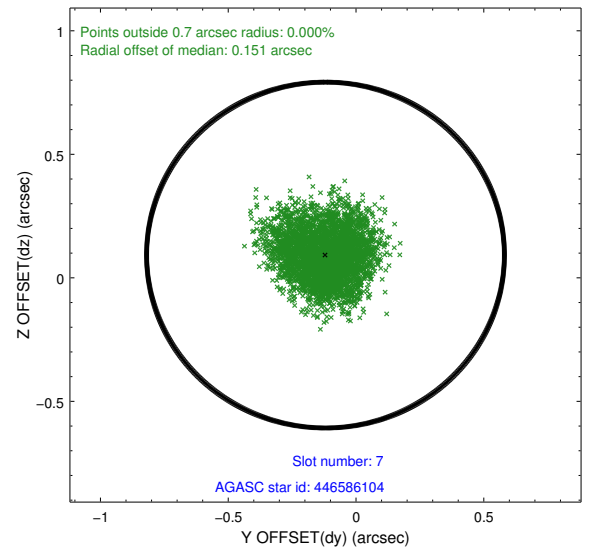
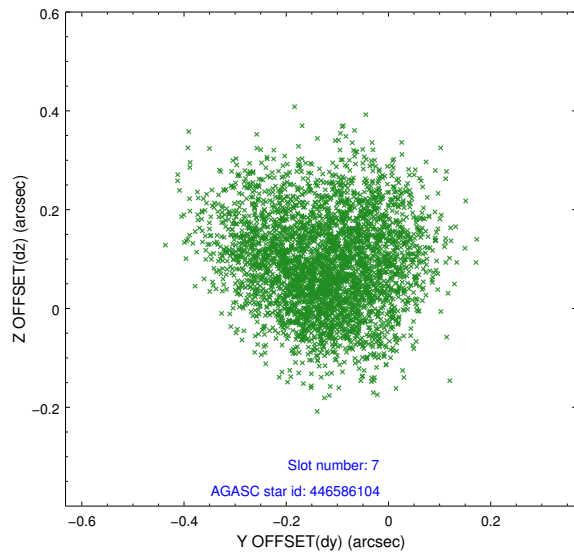
### 2.4.3 Slot 5



## 2.4.4 Slot 6

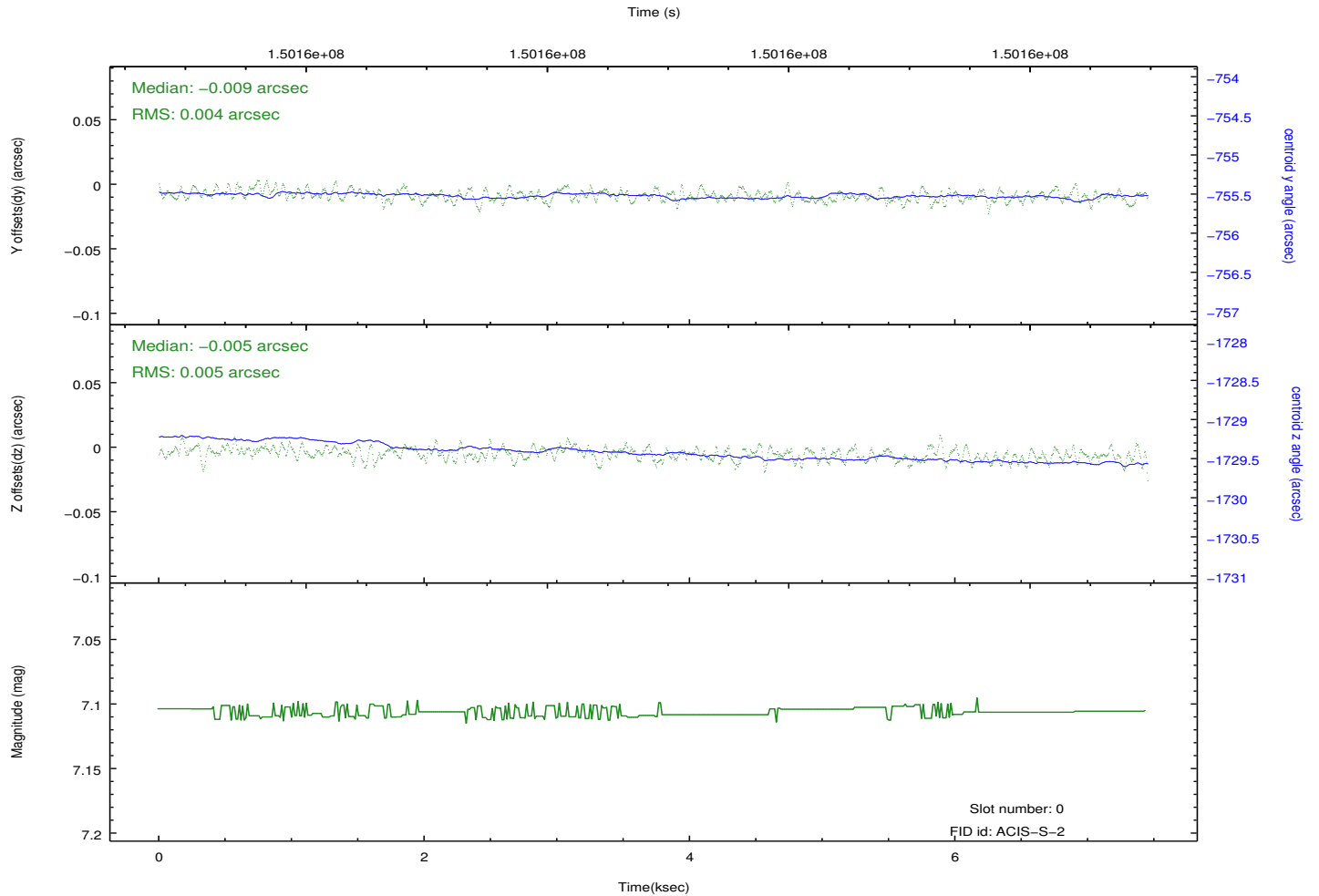
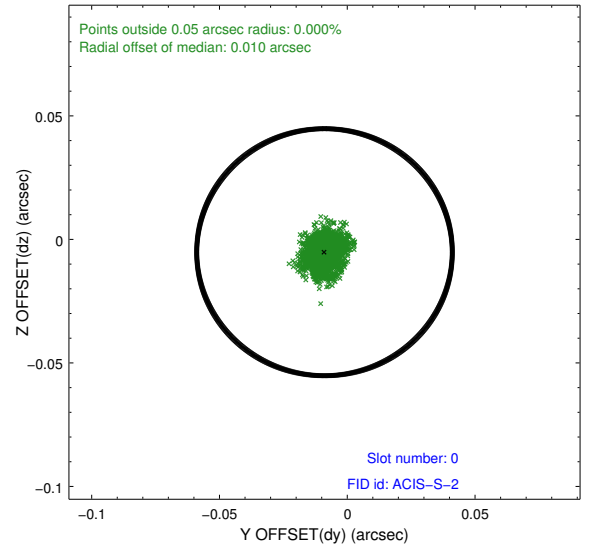
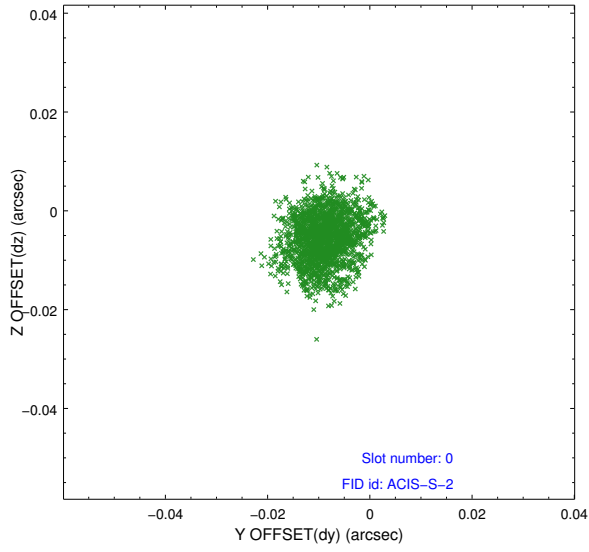


## 2.4.5 Slot 7

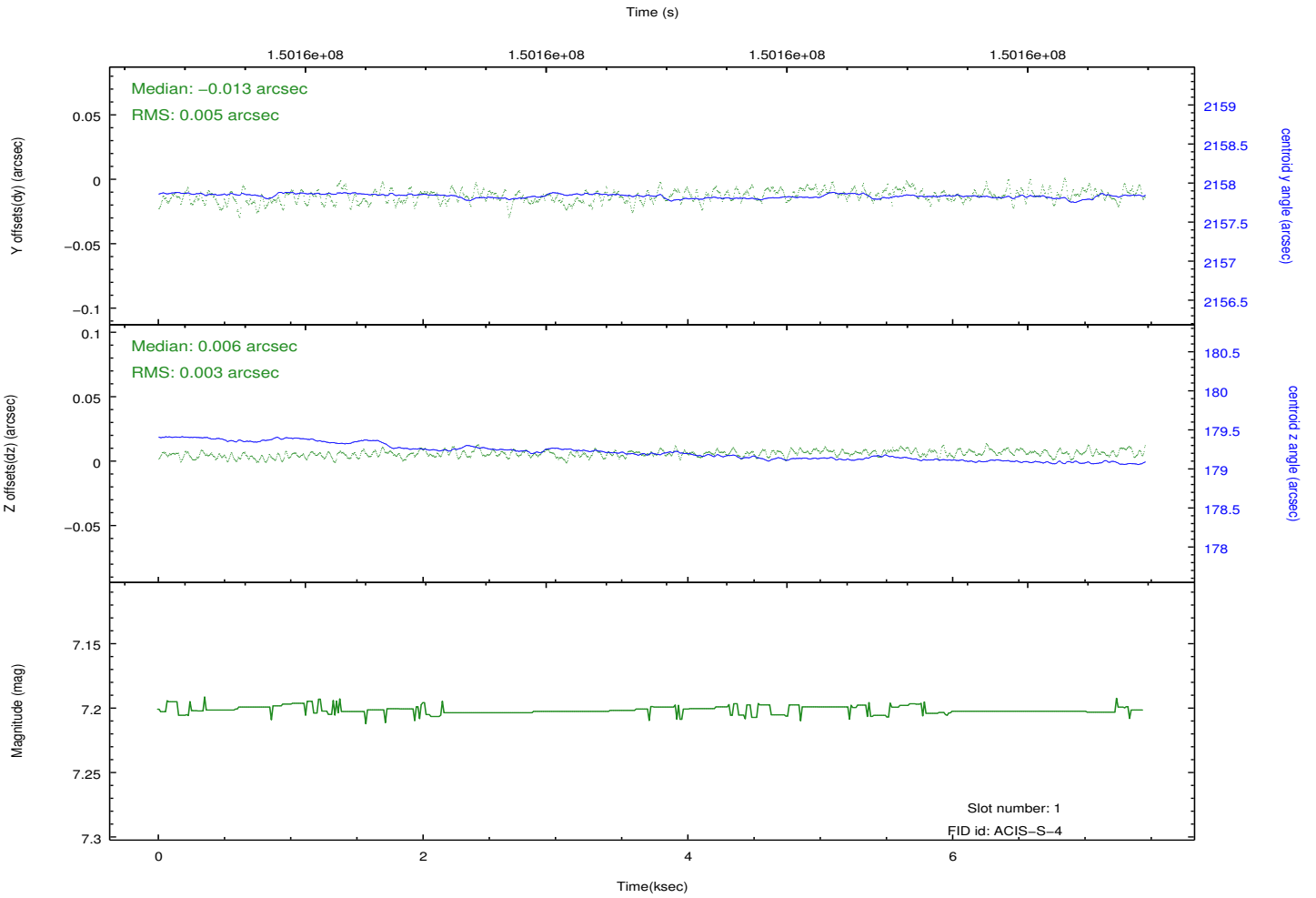
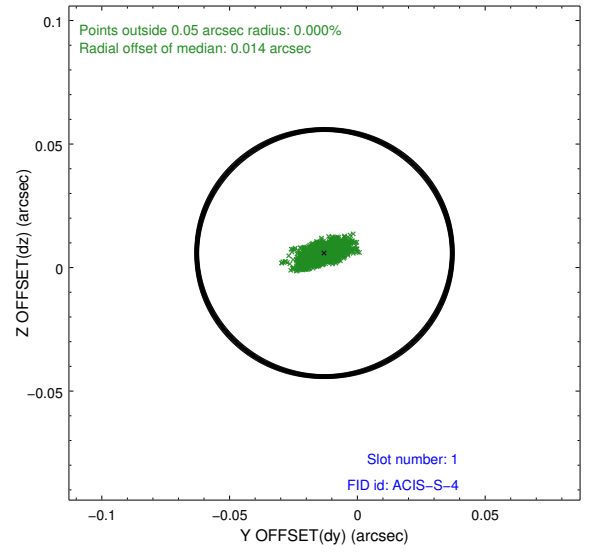
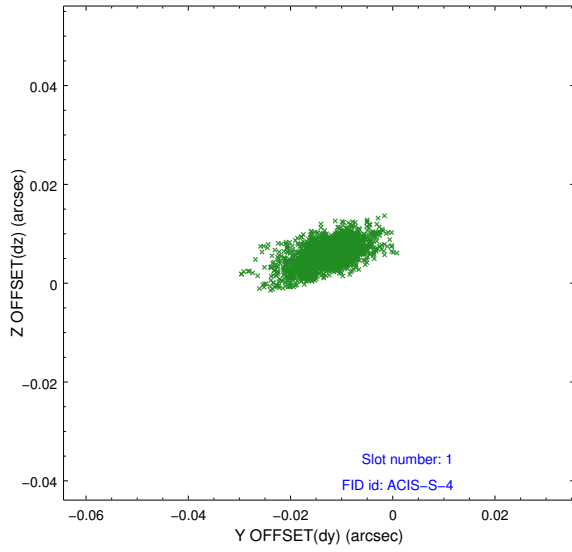


## 2.5 FID Slots

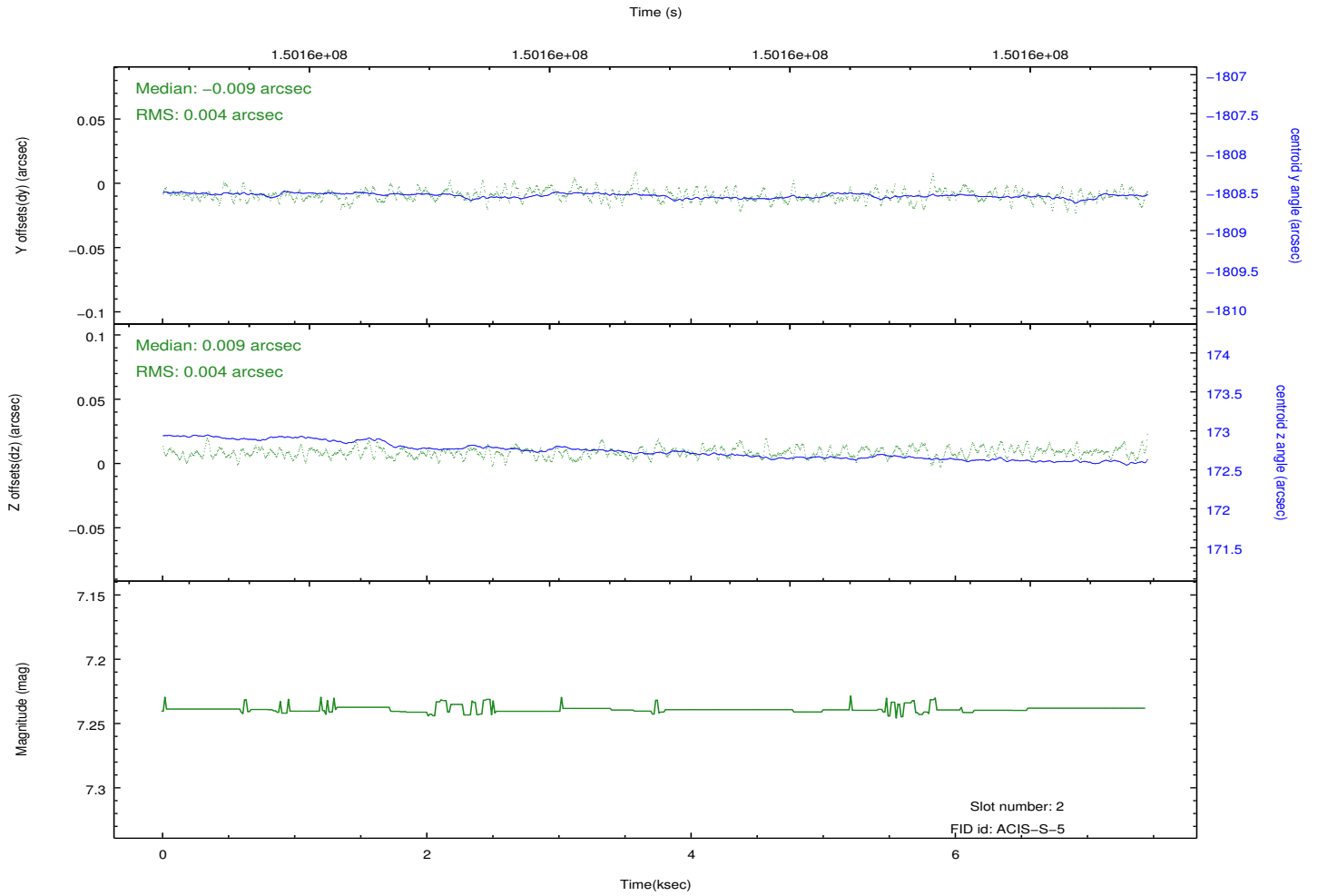
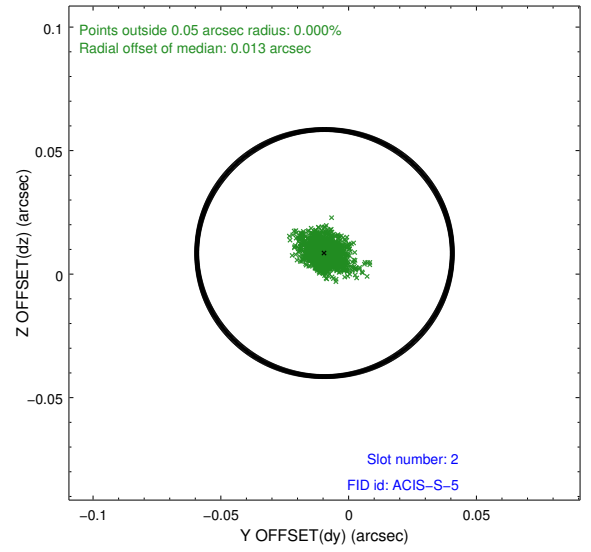
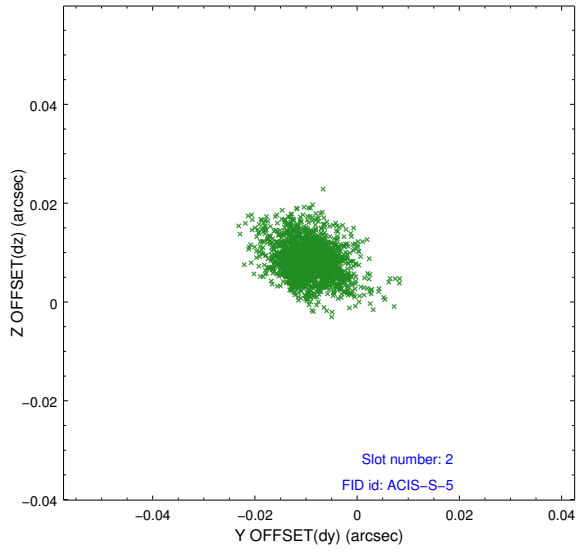
### 2.5.1 Slot 0



## 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)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.055

## A.2 Comments