

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 4067 - L2 Version 001  
Chandra X-Ray Center

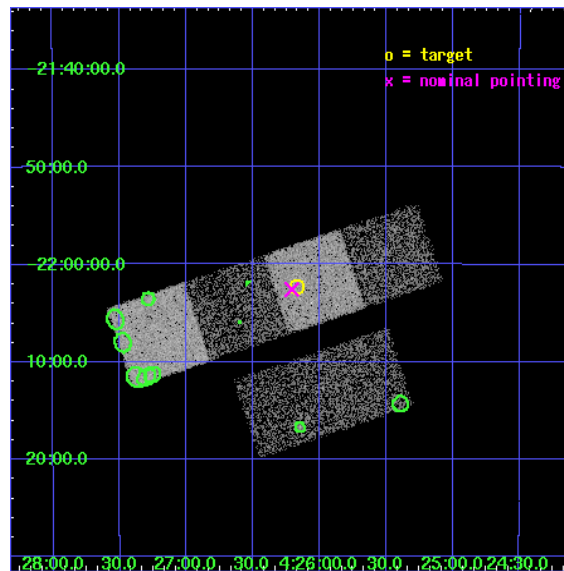
L2 Processing Date : Oct 15 2006

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# 1 Front

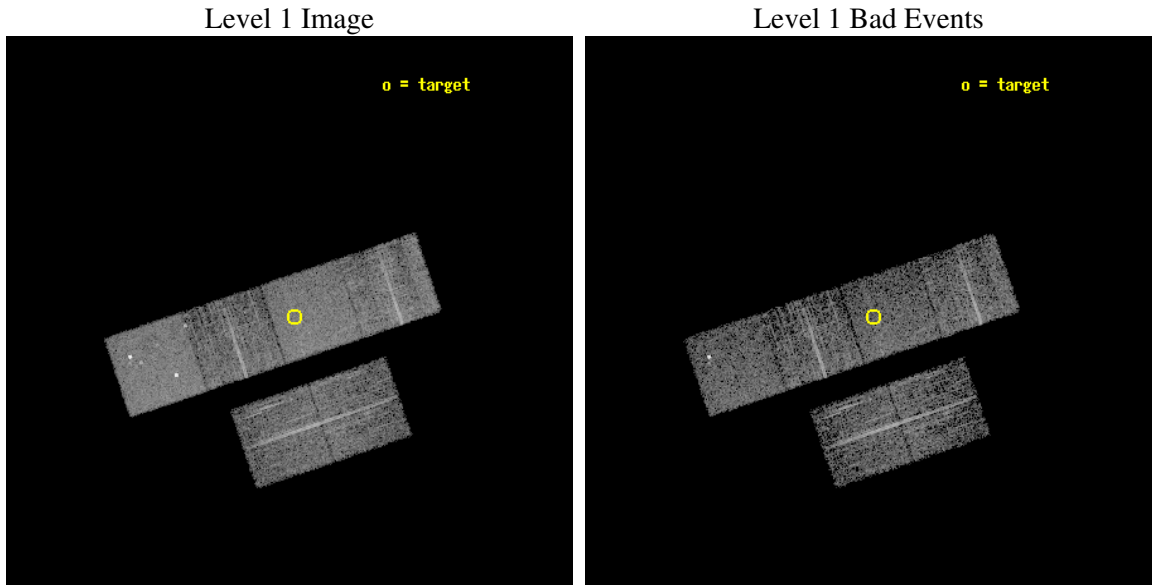
seq_num	700746
obs_id	4067
title	A CHANDRA SURVEY OF THE MOST LUMINOUS QUASARS AT $Z > 4$
observer	Dr. Cristian Vignali
object	BR 0424-2209
dtcycle	0
cycle	P
ra_targ	66.542917
dec_targ	-22.038222
ra_nom	66.552127178766
dec_nom	-22.04293809452
roll_nom	341.36136824104
revision	2
ontime	4729.5999823809
livetime	4669.7109395808
ontime2	4729.5999823809
ontime3	4729.5999823809
ontime5	4729.5999823809
ontime6	4729.5999823809
ontime7	4729.5999823809
ontime8	4729.5999823809
l2events	44390



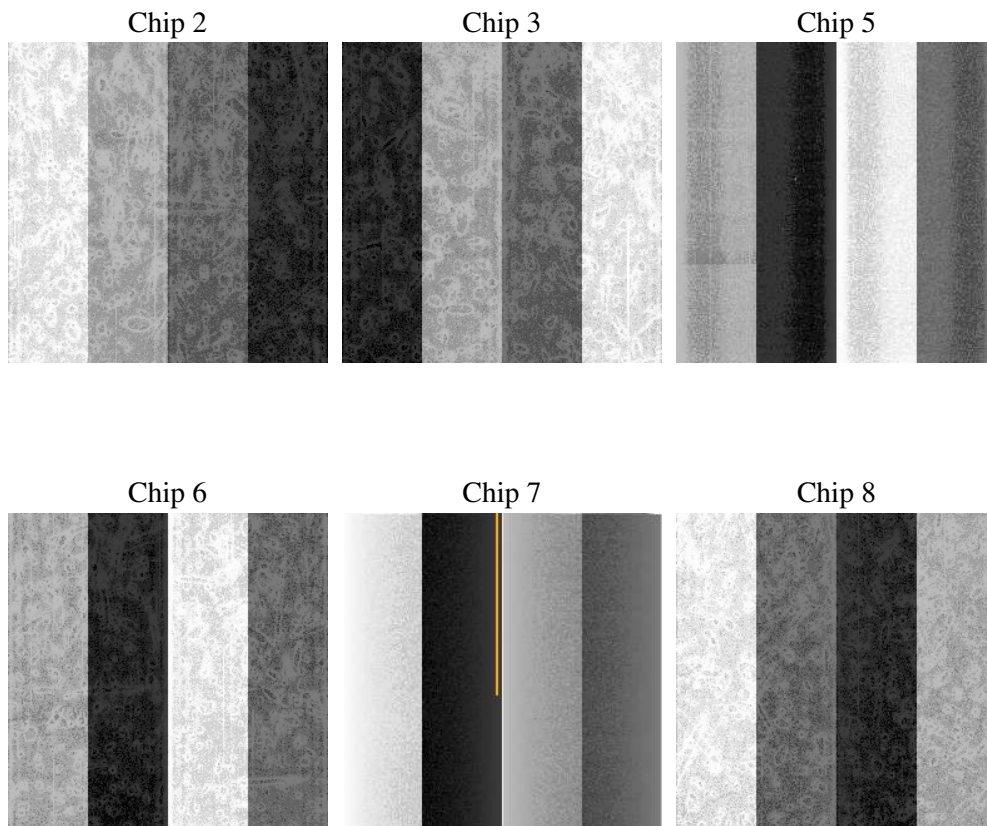
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-10-15T02:53:51
revision	2

sched_exp_time	4701.338000
ontime	4793.4481700659
ontime2	4793.4481700659
ontime3	4793.4481700659
ontime5	4793.4481700659
ontime6	4793.4481700659
ontime7	4793.4481700659
ontime8	4793.4481700659
l1events	210474

### 2.1.4 Events

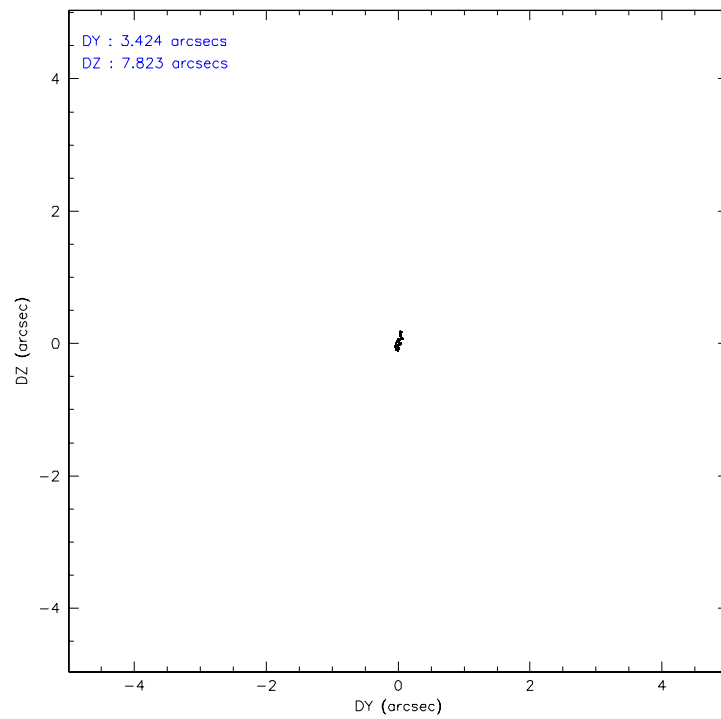
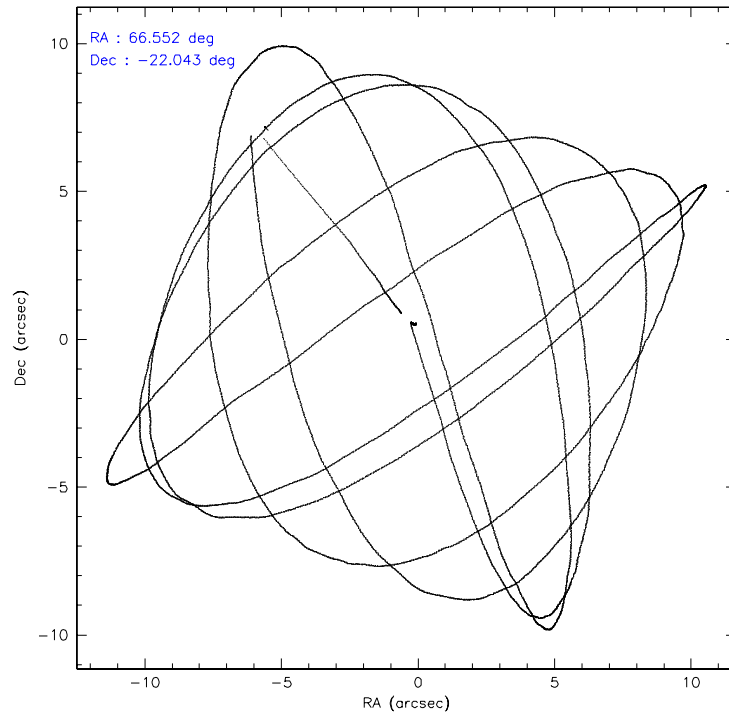
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	30031	28223	45079	30076	38979	38086
rejected events	26554	24740	25311	26430	24136	29576
rejected %	88%	87%	56%	87%	61%	77%

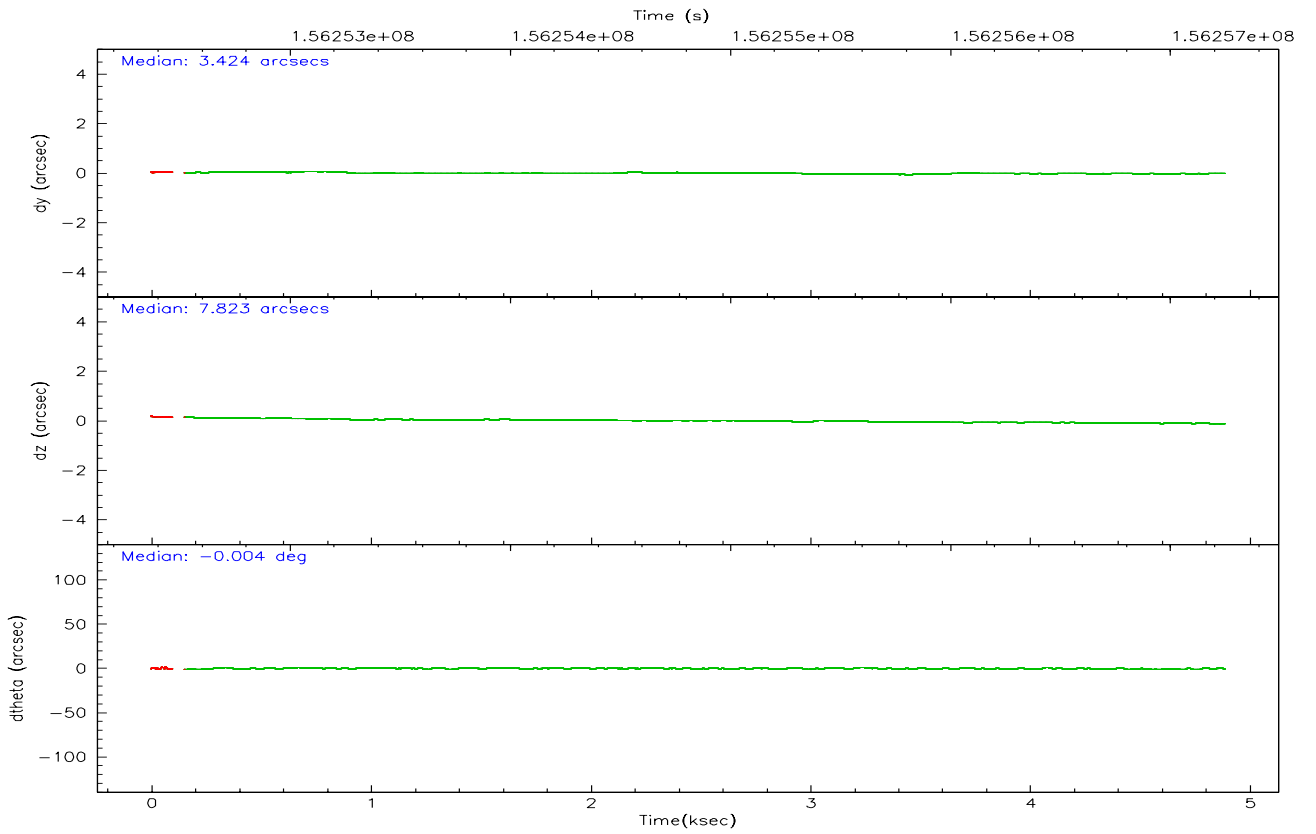
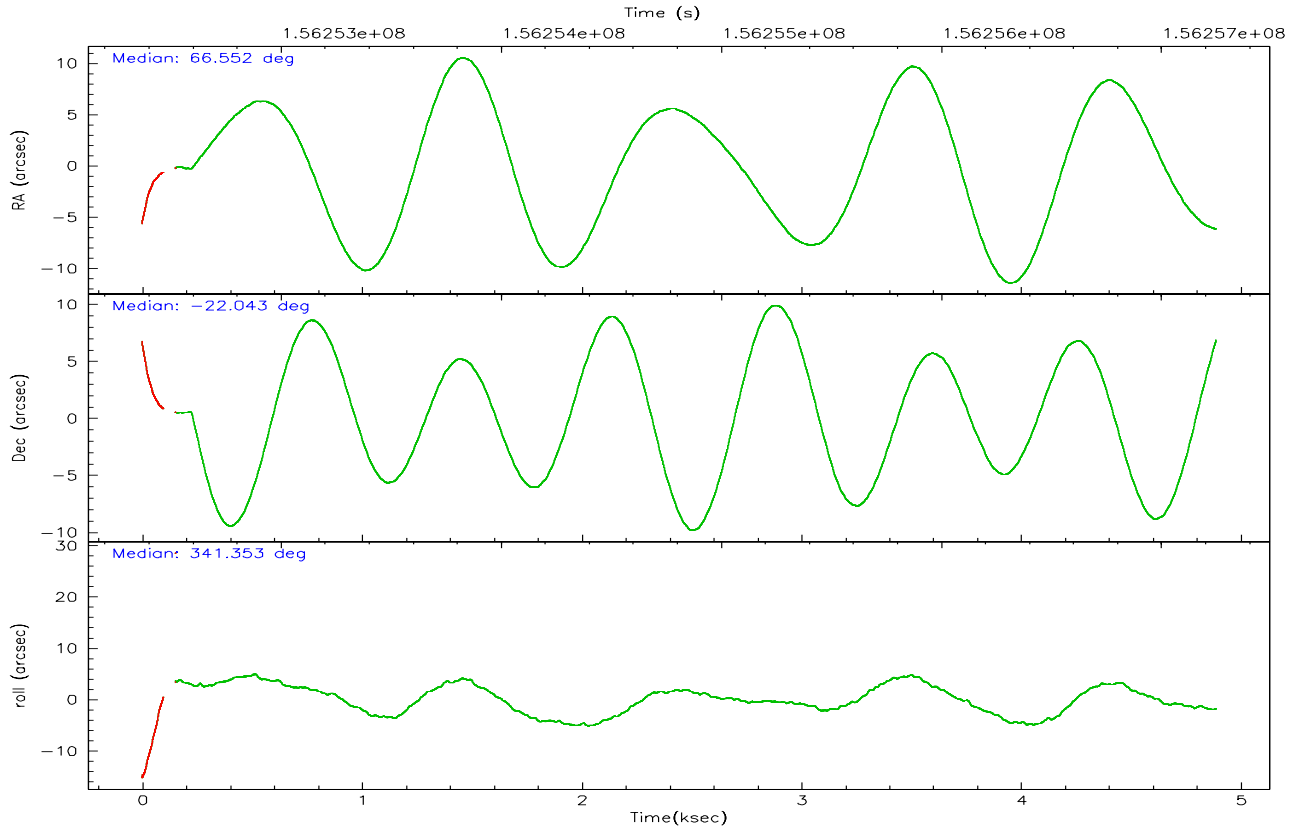
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1573	1534	2440	1562	922	2830
	5%	5%	5%	5%	2%	7%
grade 1 events	18	23	73	11	24	24
	0%	0%	0%	0%	0%	0%
grade 2 events	707	661	6163	729	3681	1756
	2%	2%	13%	2%	9%	4%
grade 3 events	340	346	437	362	760	994
	1%	1%	0%	1%	1%	2%
grade 4 events	325	373	388	331	796	927
	1%	1%	0%	1%	2%	2%
grade 5 events	1096	1268	2747	1286	2623	1705
	3%	4%	6%	4%	6%	4%
grade 6 events	579	626	10602	717	8895	2100
	1%	2%	23%	2%	22%	5%
grade 7 events	25393	23392	22229	25078	21278	27750
	84%	82%	49%	83%	54%	72%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	66.523347	66.55212717876645	Subarray requested	NONE	NONE
Pointing Dec	-22.048593	-22.04293809451998	Alternating exposures requested	N	N
Pointing Roll	341.193978	341.3613682410361	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	156252552.184000	156251527.46652			
Observation start date	2002-12-14T11:28:08	2002-12-14T11:12:07			
Observation end time	156257253.184000	156257567.79178			
Observation end date	2002-12-14T12:46:29	2002-12-14T12:52:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect



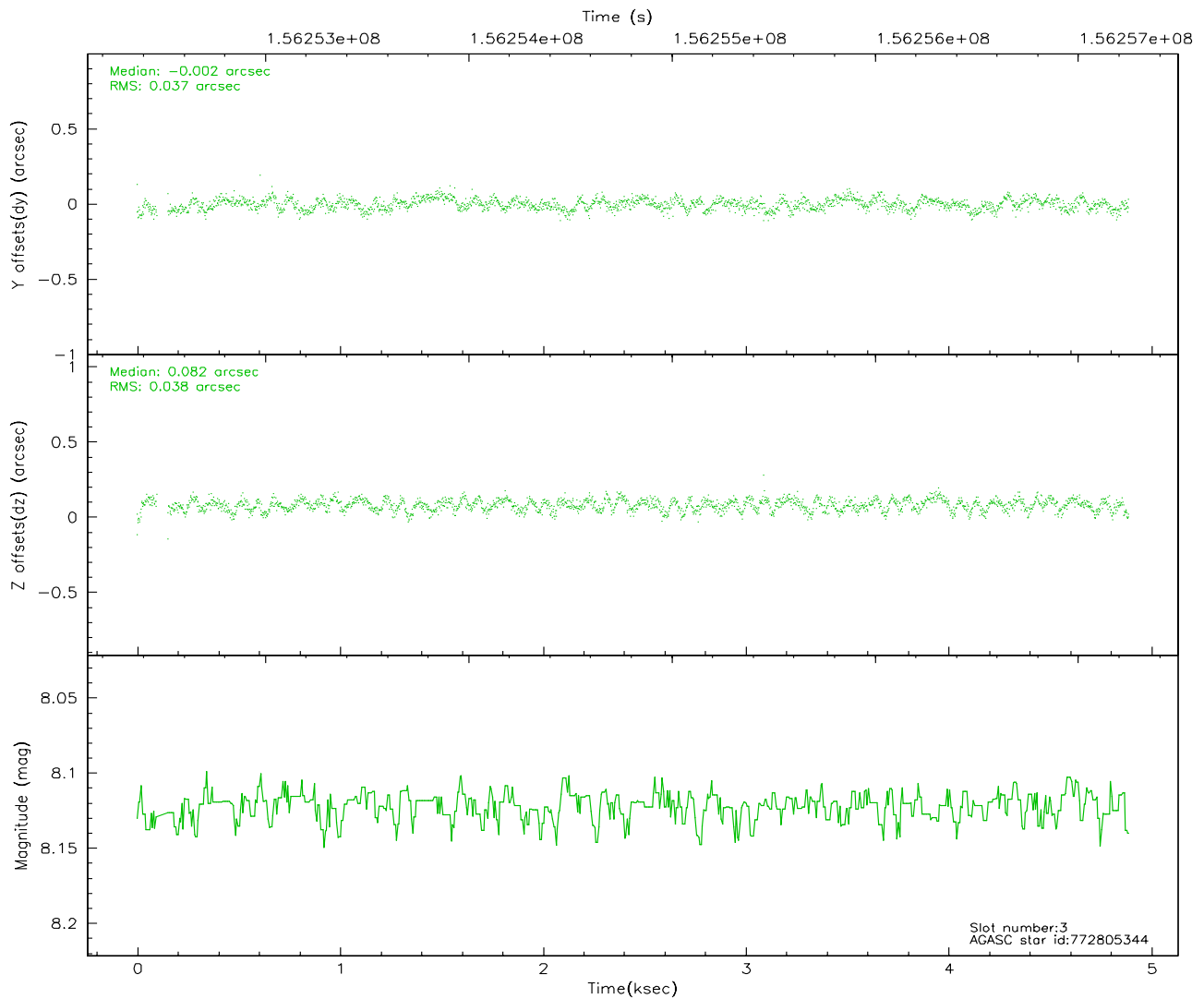
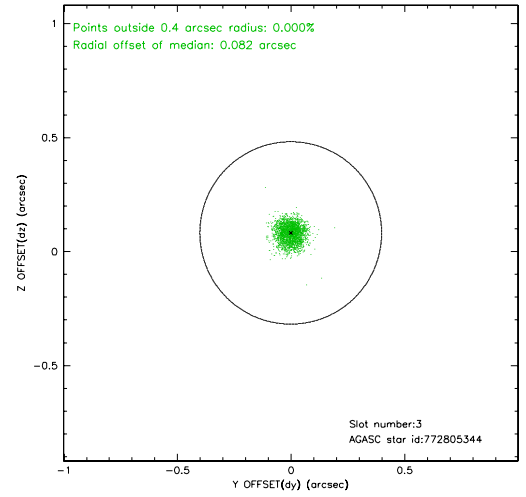
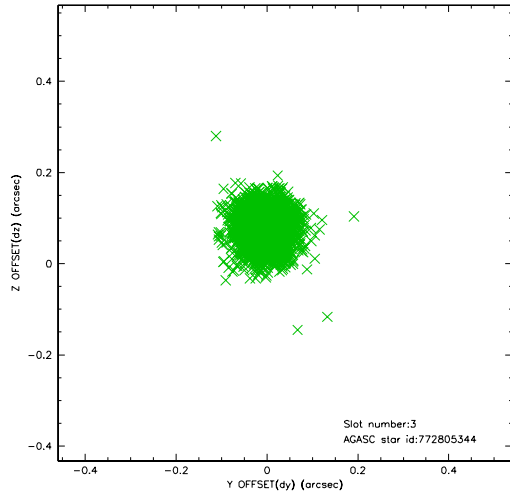


### Slot Statistics

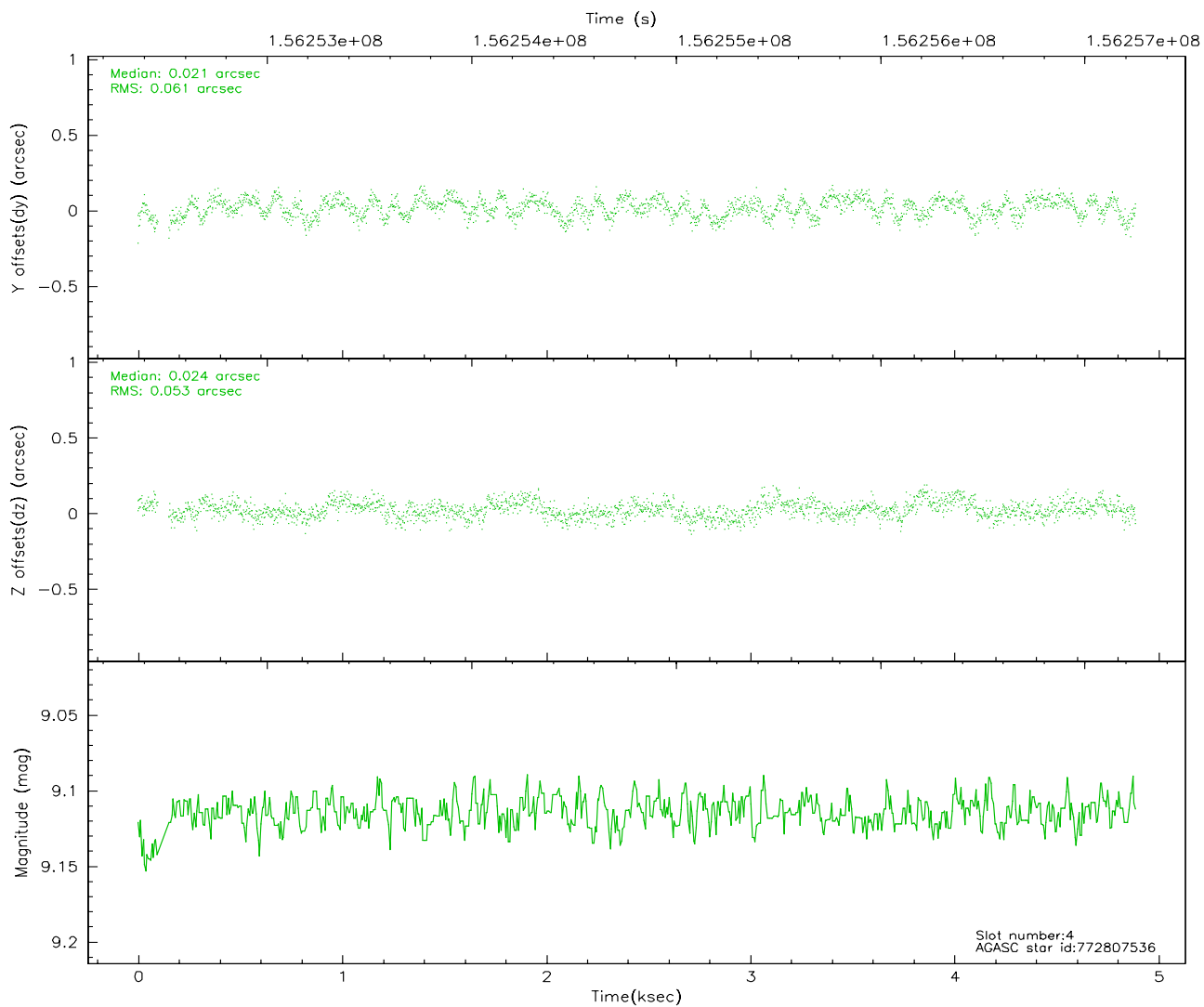
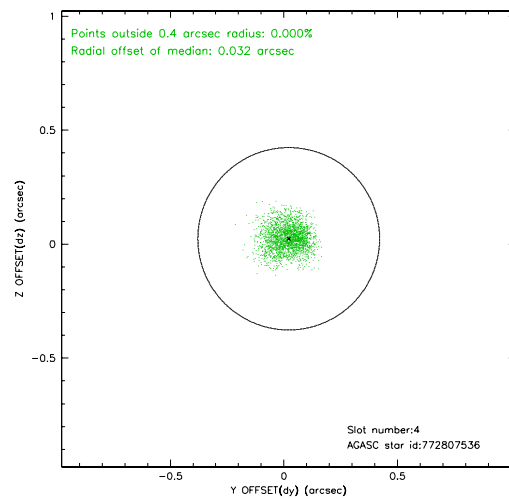
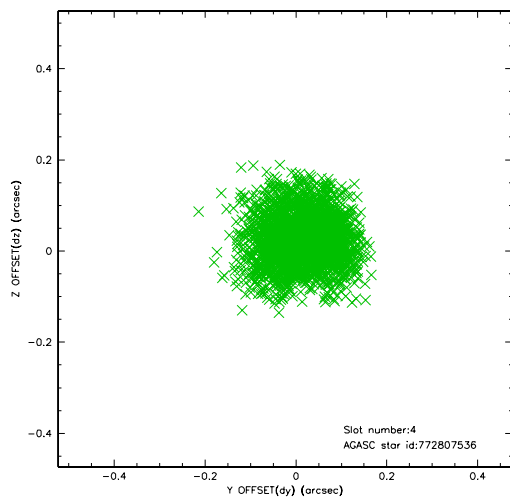
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1180	0.008	0.026	0.007	0.012	0.000000	0.000000	-756.08	-1728.98
1	FID	ACIS-S-4	7.21	1180	-0.052	-0.010	0.005	0.009	0.000000	0.000000	2156.58	178.14
2	FID	ACIS-S-5	7.24	1180	0.013	-0.006	0.006	0.011	0.000000	0.000000	-1807.28	173.28
3	GUIDE	772805344	8.12	2359	-0.002	0.082	0.057	0.087	65.775684	-22.120427	-2274.53	-1054.56
4	GUIDE	772807536	9.11	2358	0.021	0.024	0.087	0.136	66.595550	-21.507571	-399.83	1921.29
5	GUIDE	772944904	9.12	2356	-0.054	-0.126	0.087	0.138	66.702917	-21.418504	-161.61	2341.68
6	GUIDE	846349976	9.48	2359	0.035	0.024	0.098	0.163	66.485448	-22.669584	602.14	-2155.63
7	MONITOR		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

## 2.4 Star Slots

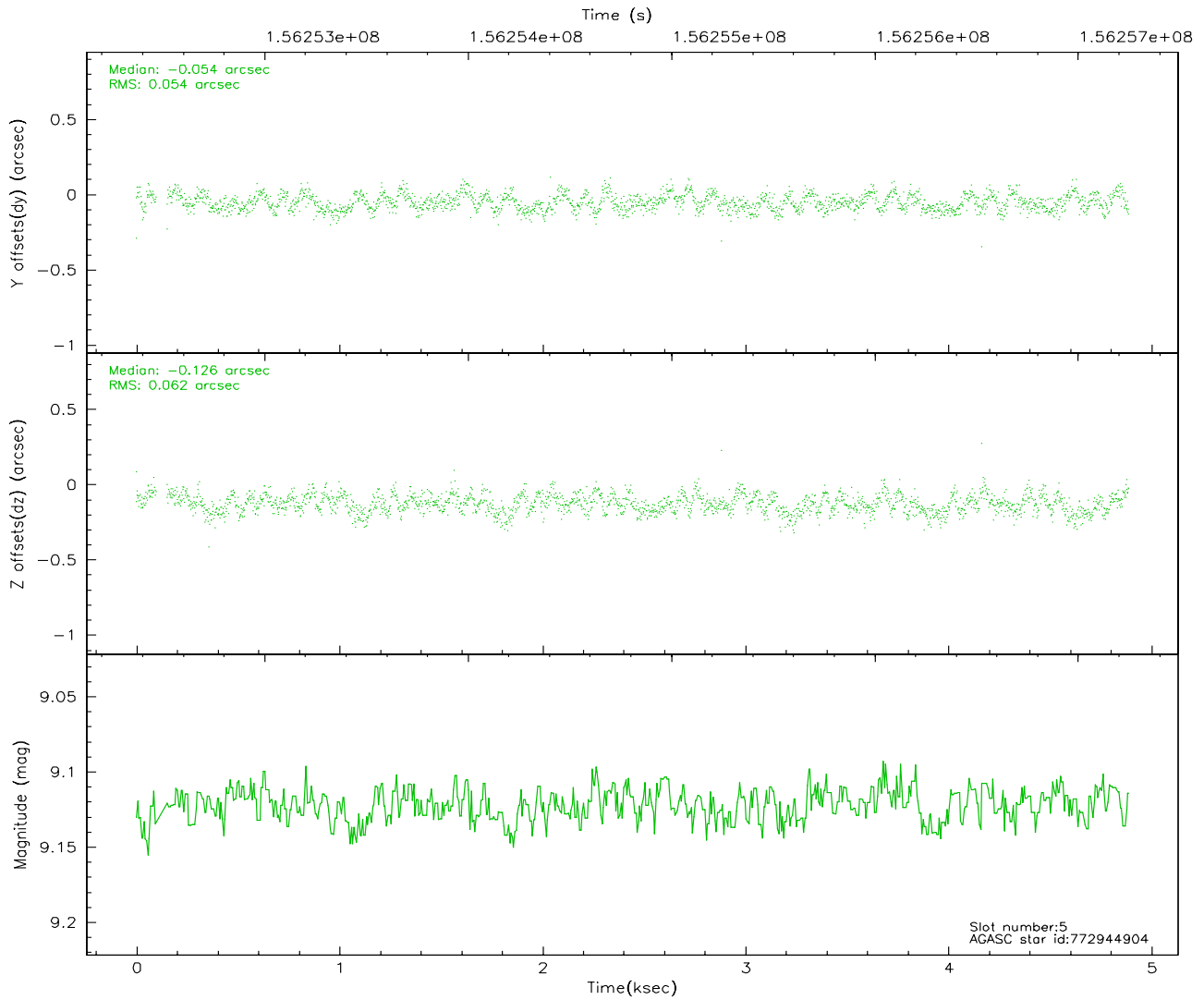
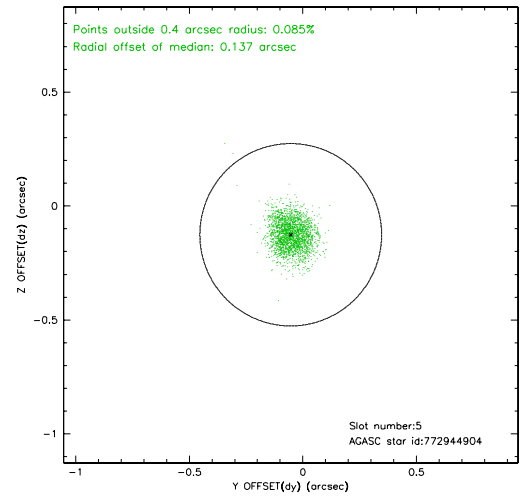
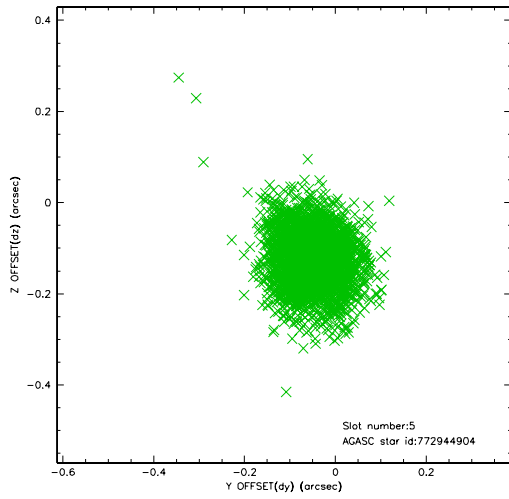
### 2.4.1 Slot 3



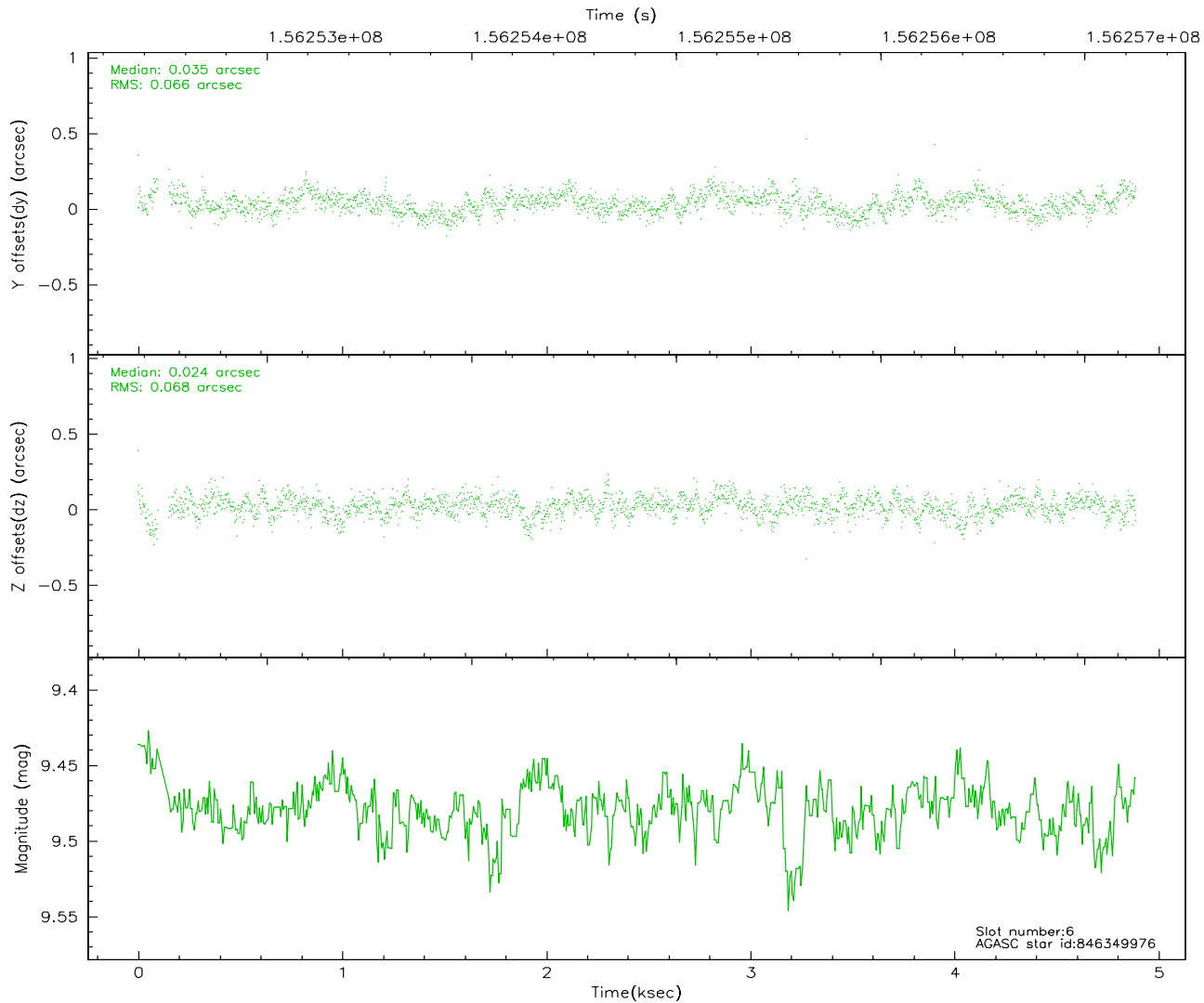
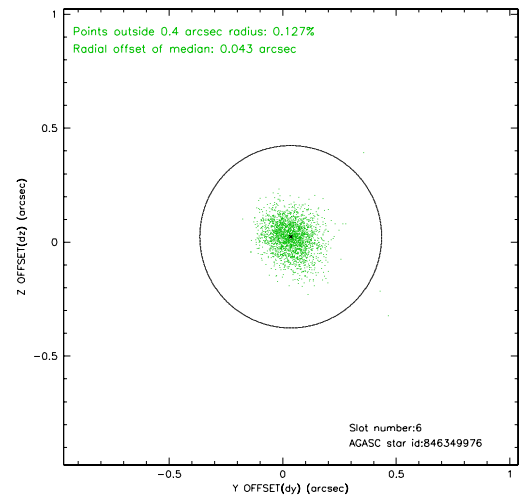
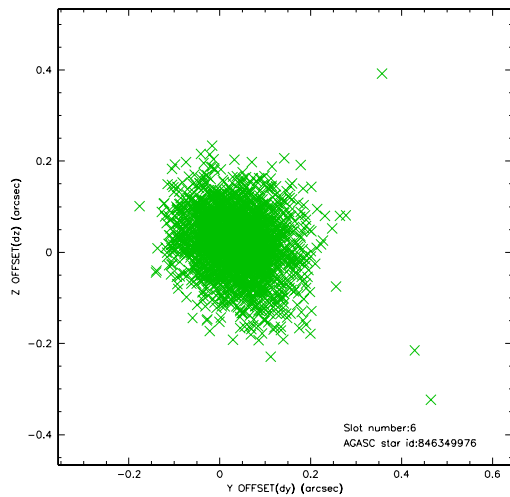
## 2.4.2 Slot 4



### 2.4.3 Slot 5

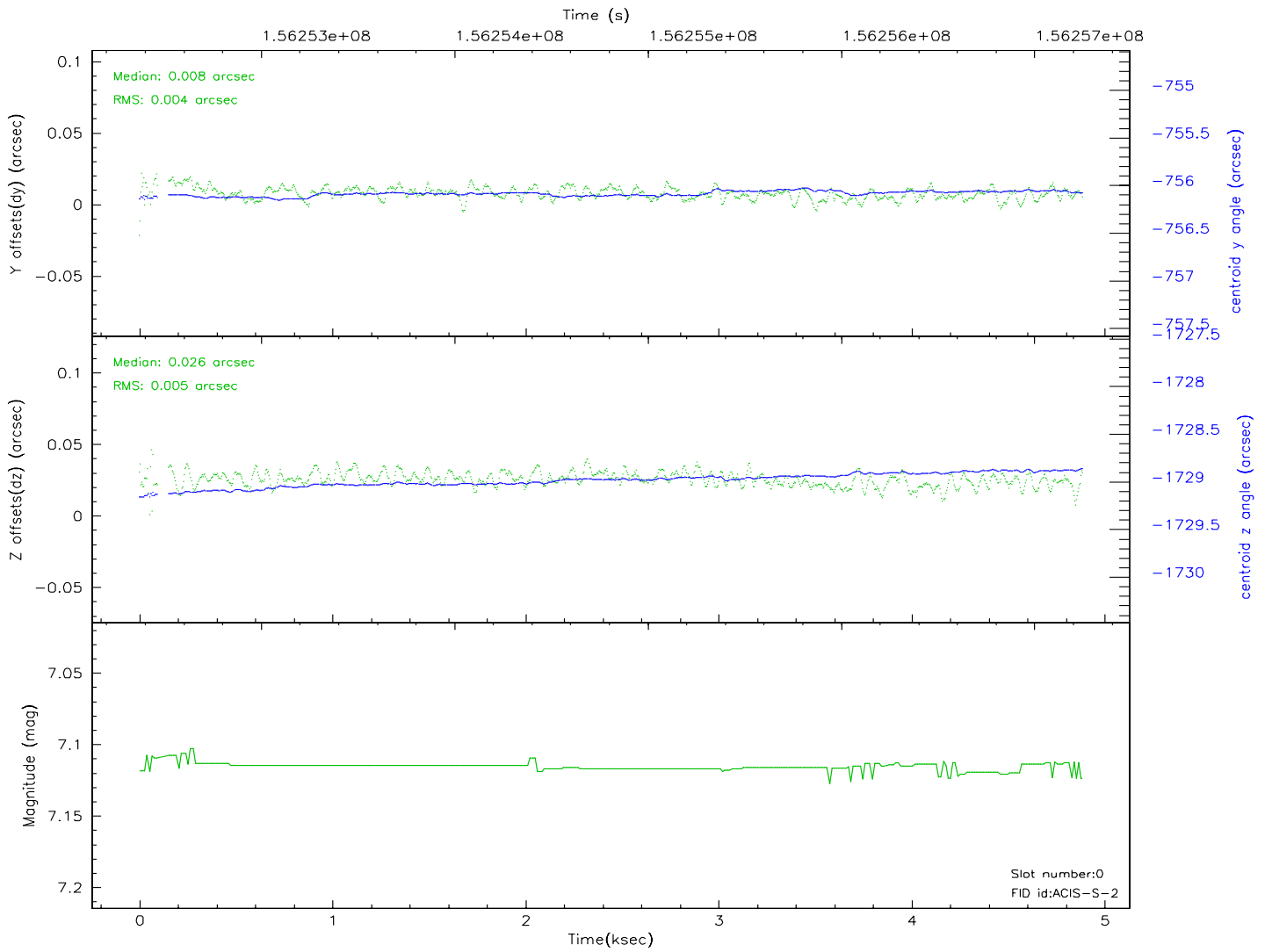
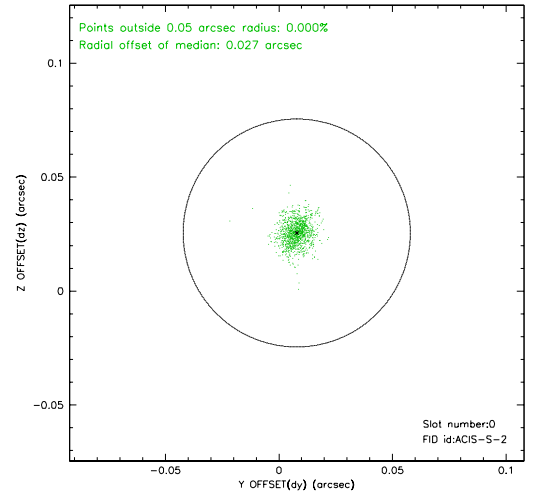
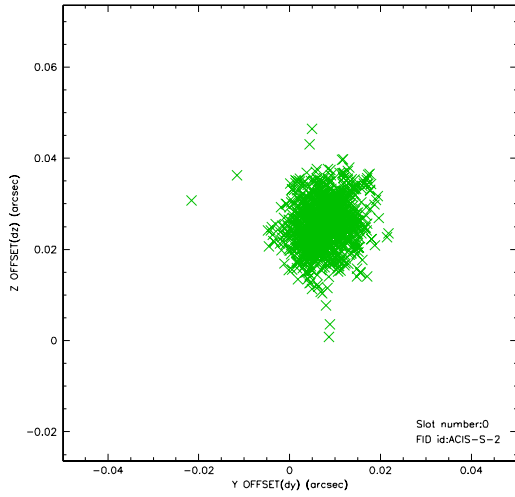


## 2.4.4 Slot 6

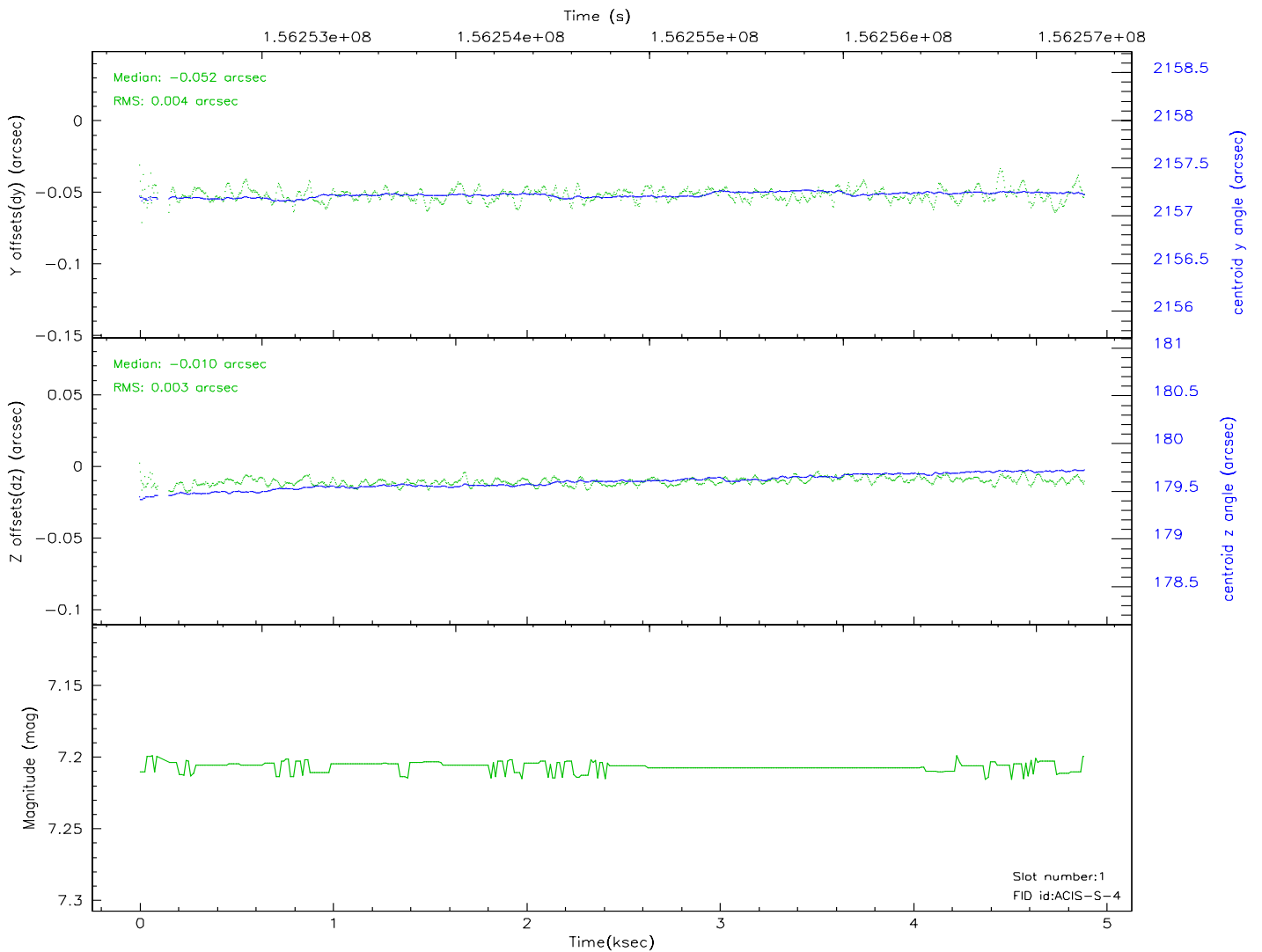
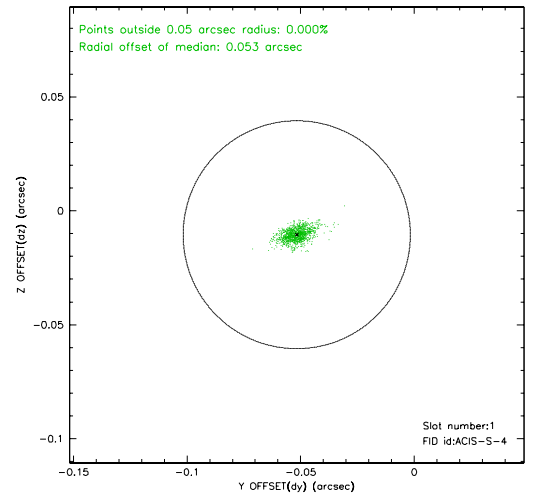
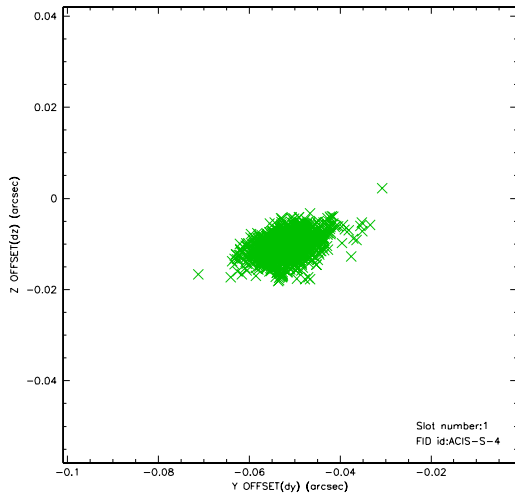


## 2.5 FID Slots

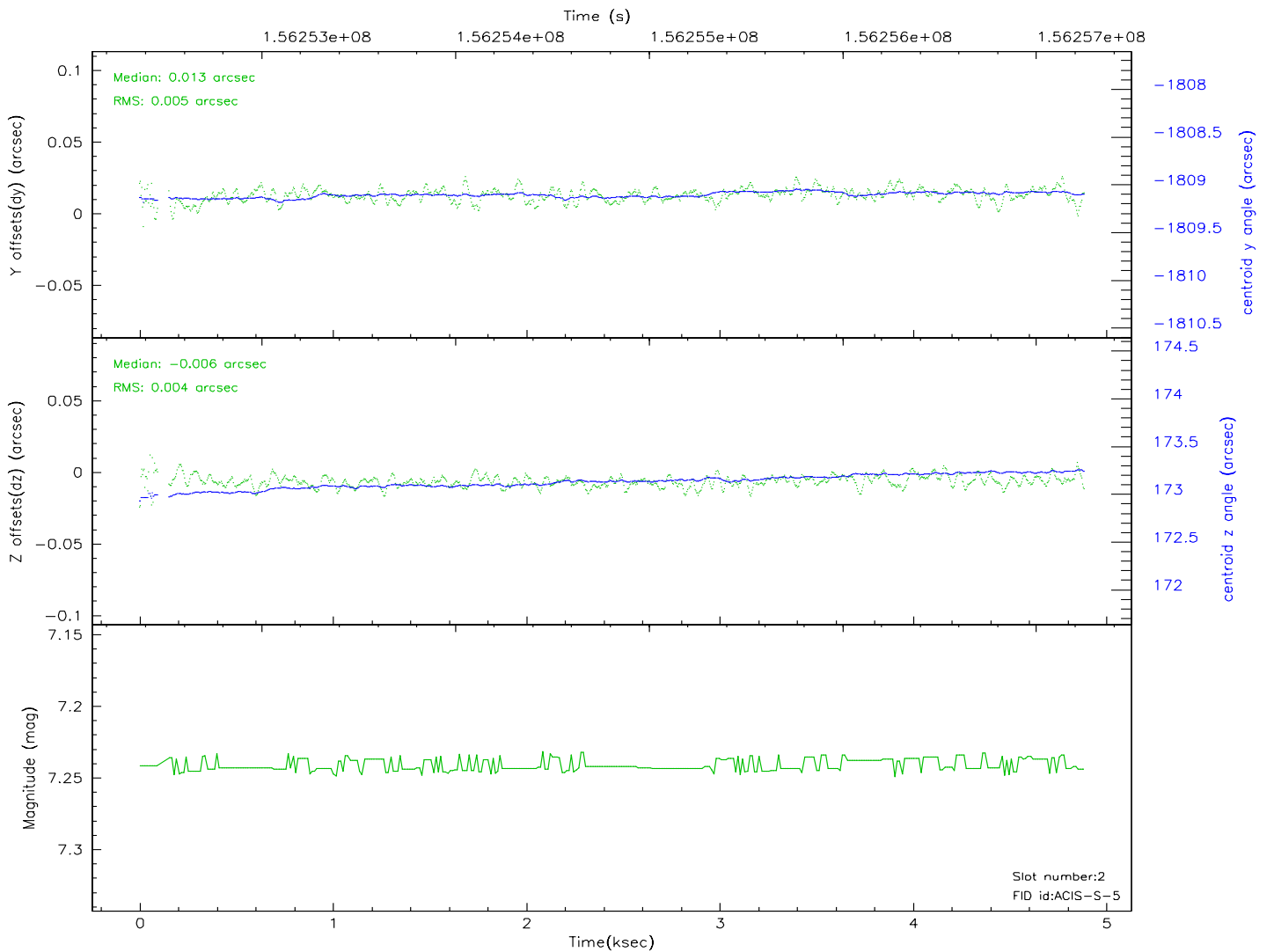
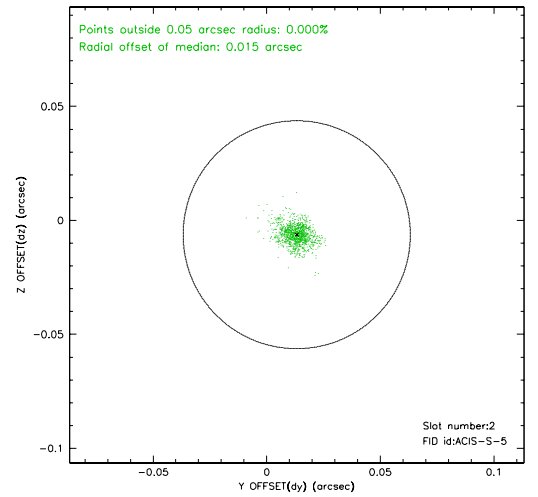
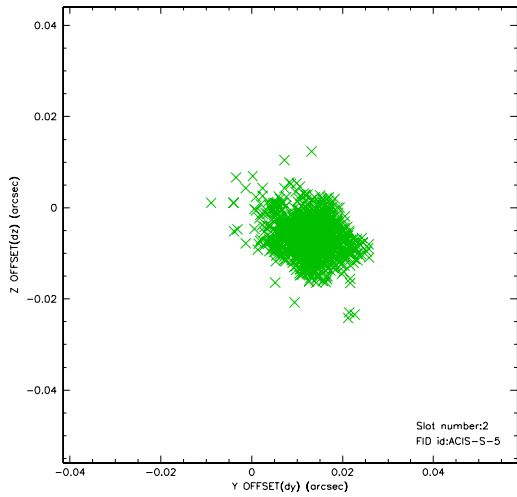
### 2.5.1 Slot 0



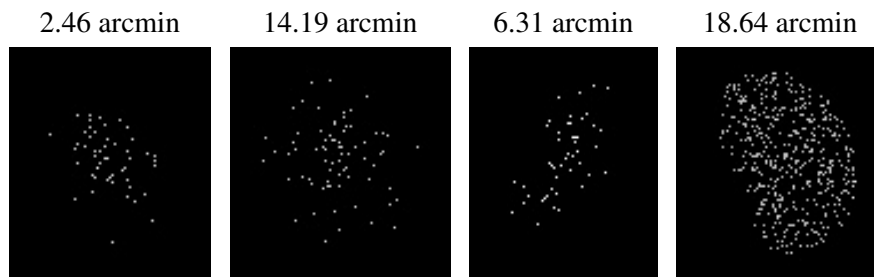
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.73

## A.2 Comments