

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2115 - L2 Version 001  
Chandra X-Ray Center

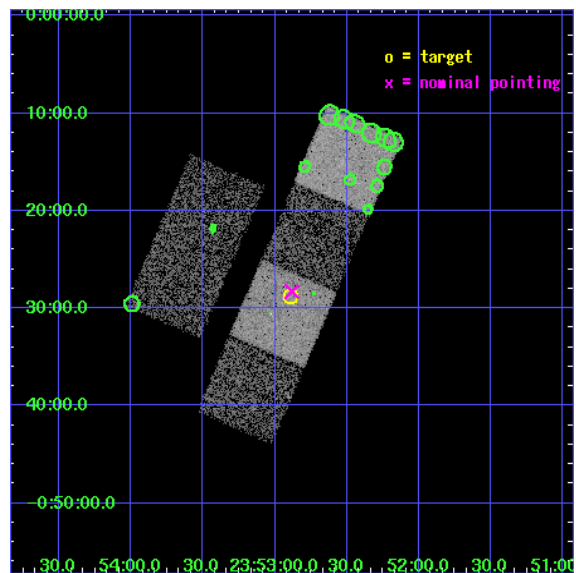
L2 Processing Date : Sep 16 2006

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# 1 Front

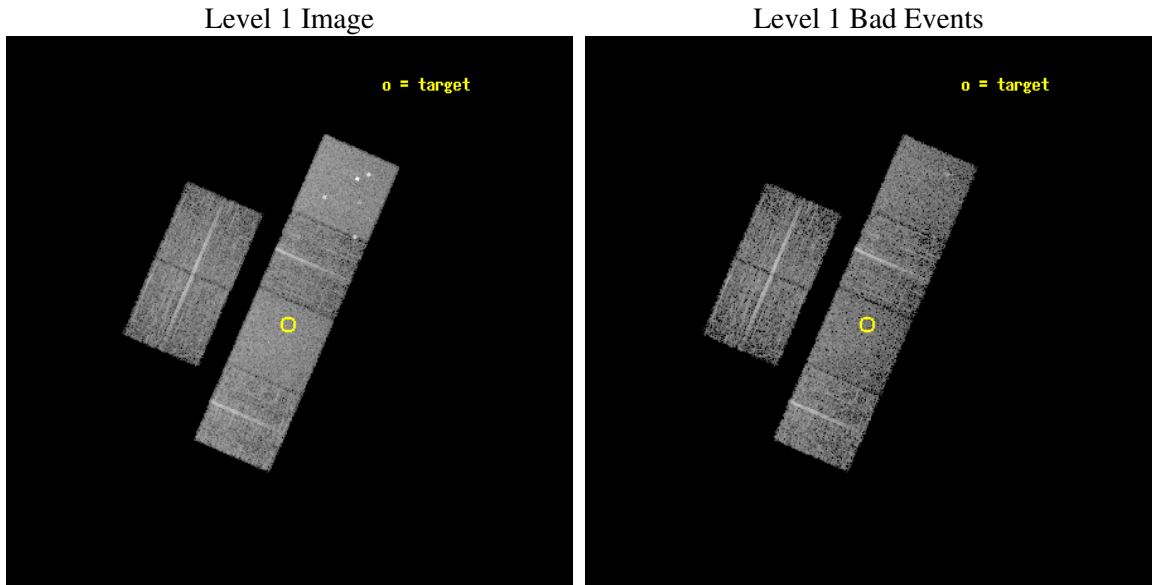
seq_num	700305
obs_id	2115
title	PUBLIC OBSERVATIONS OF A WELL-DEFINED SAMPLE OF BAL QSOS FROM THE LARGE BRIGHT QUASAR SURVEY: REMOVING THE BARRIERS
observer	Prof. William Brandt
object	LBQS 2350-0045A
dtcycle	0
cycle	P
ra_targ	358.222917
dec_targ	-0.480861
ra_nom	358.22072937623
dec_nom	-0.47145303760075
roll_nom	113.37397155647
revision	2
ontime	5852.7999781966
livetime	5778.6883007396
ontime2	5852.7999781966
ontime3	5852.7999781966
ontime5	5852.7999781966
ontime6	5852.7999781966
ontime7	5852.7999781966
ontime8	5852.7999781966
l2events	54892



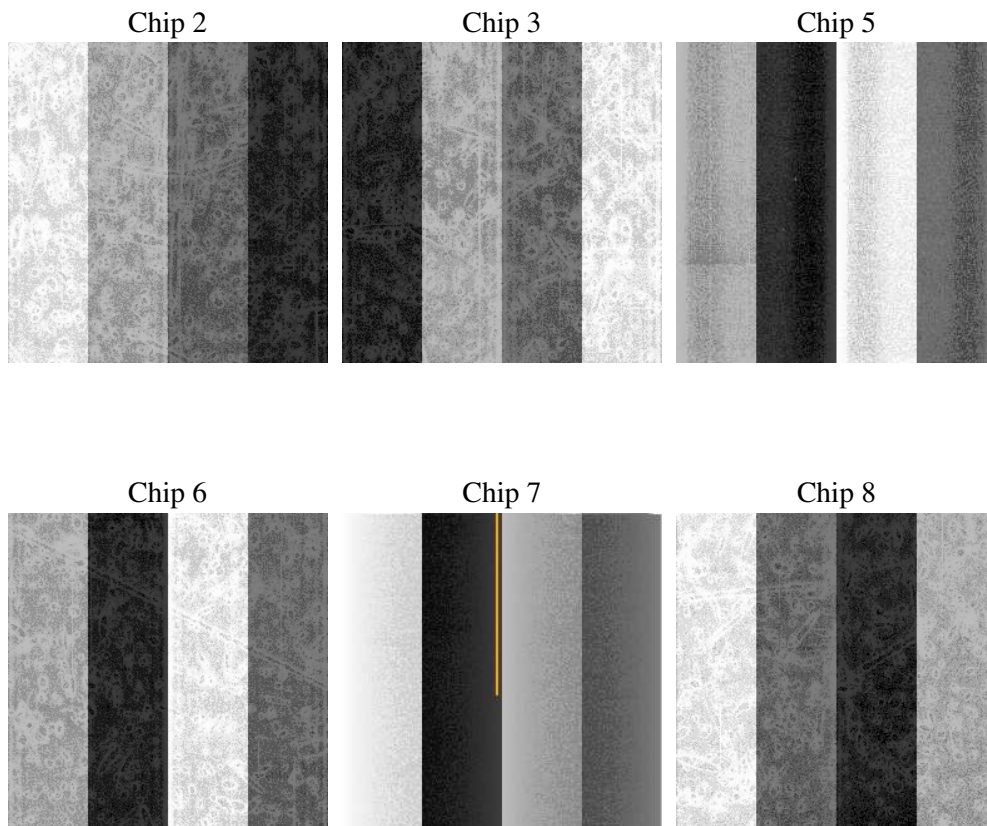
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	5
ascdsver	7.6.9
caldbver	3.2.3
date	2006-09-16T13:29:28
revision	2

sched_exp_time	6000.000000
ontime	6012.0591954887
ontime2	6012.0591954887
ontime3	6012.0591954887
ontime5	6012.0591954887
ontime6	6012.0591954887
ontime7	6012.0591954887
ontime8	6012.0591954887
l1events	266102

### 2.1.4 Events

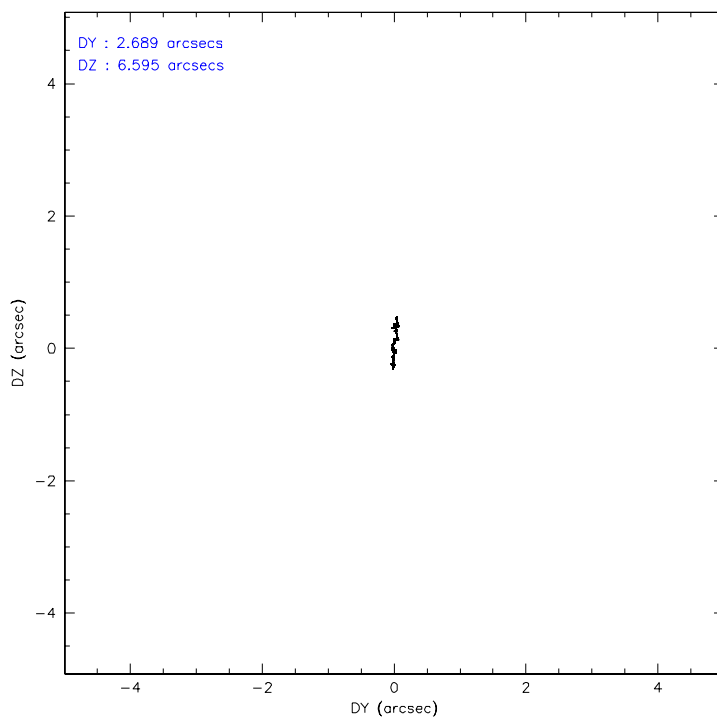
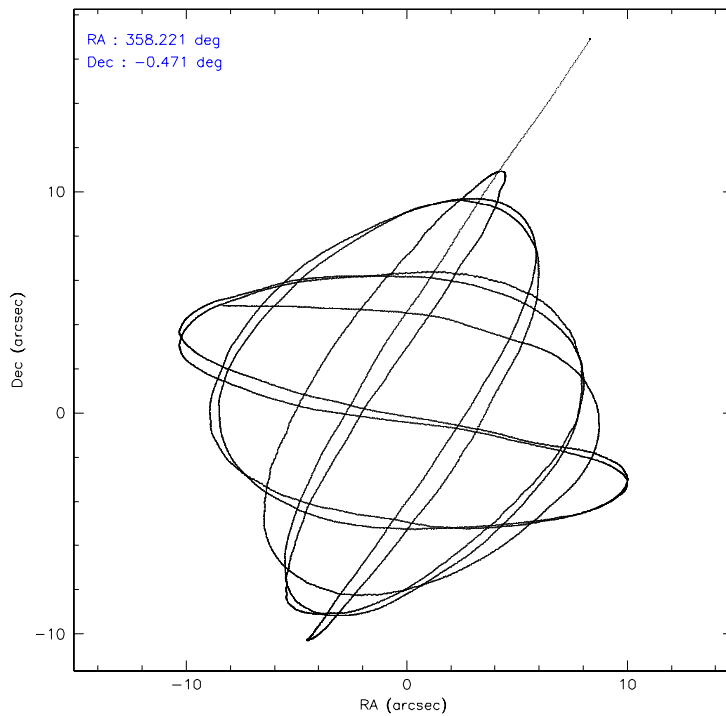
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	36994	37133	56955	38303	49151	47566
rejected events	32922	33082	31476	33971	30743	37596
rejected %	88%	89%	55%	88%	62%	79%

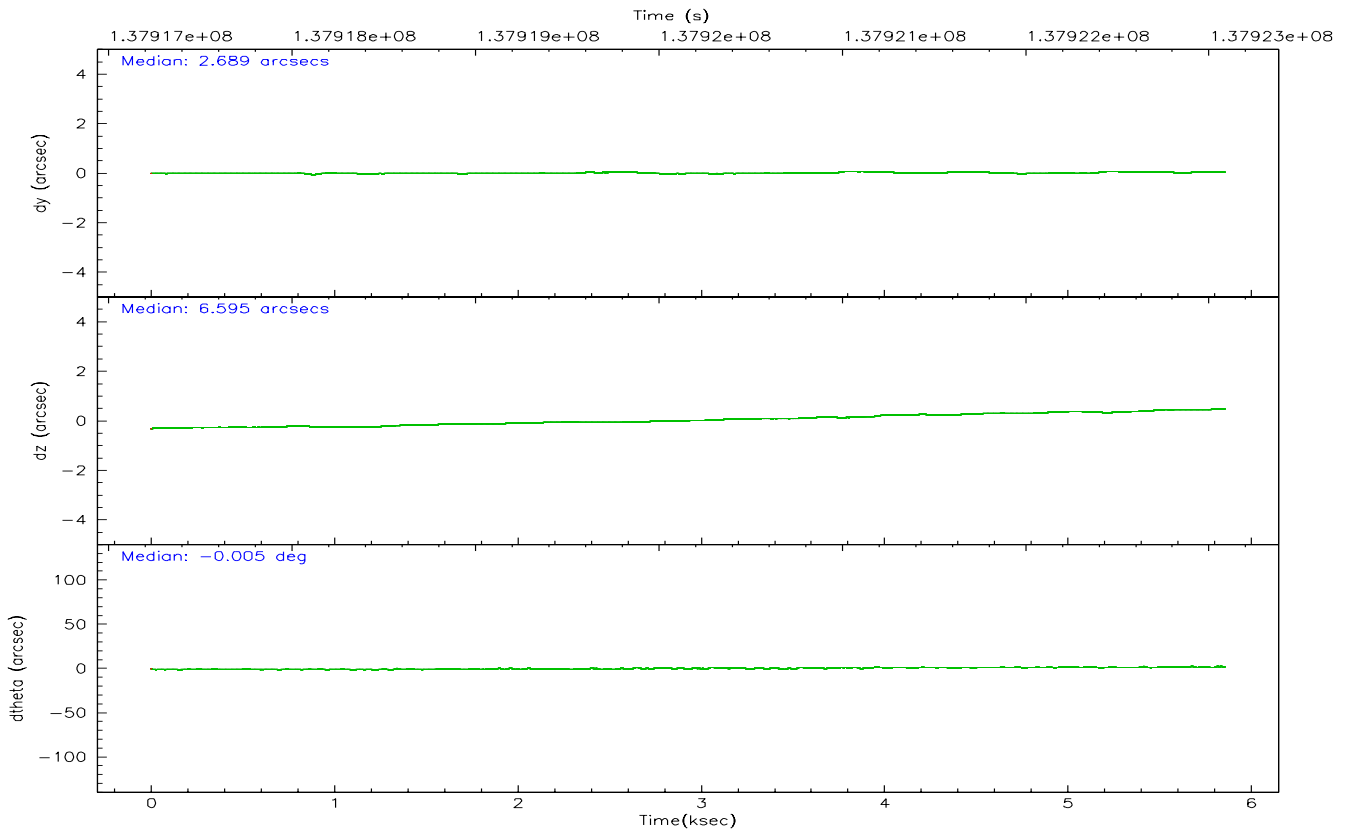
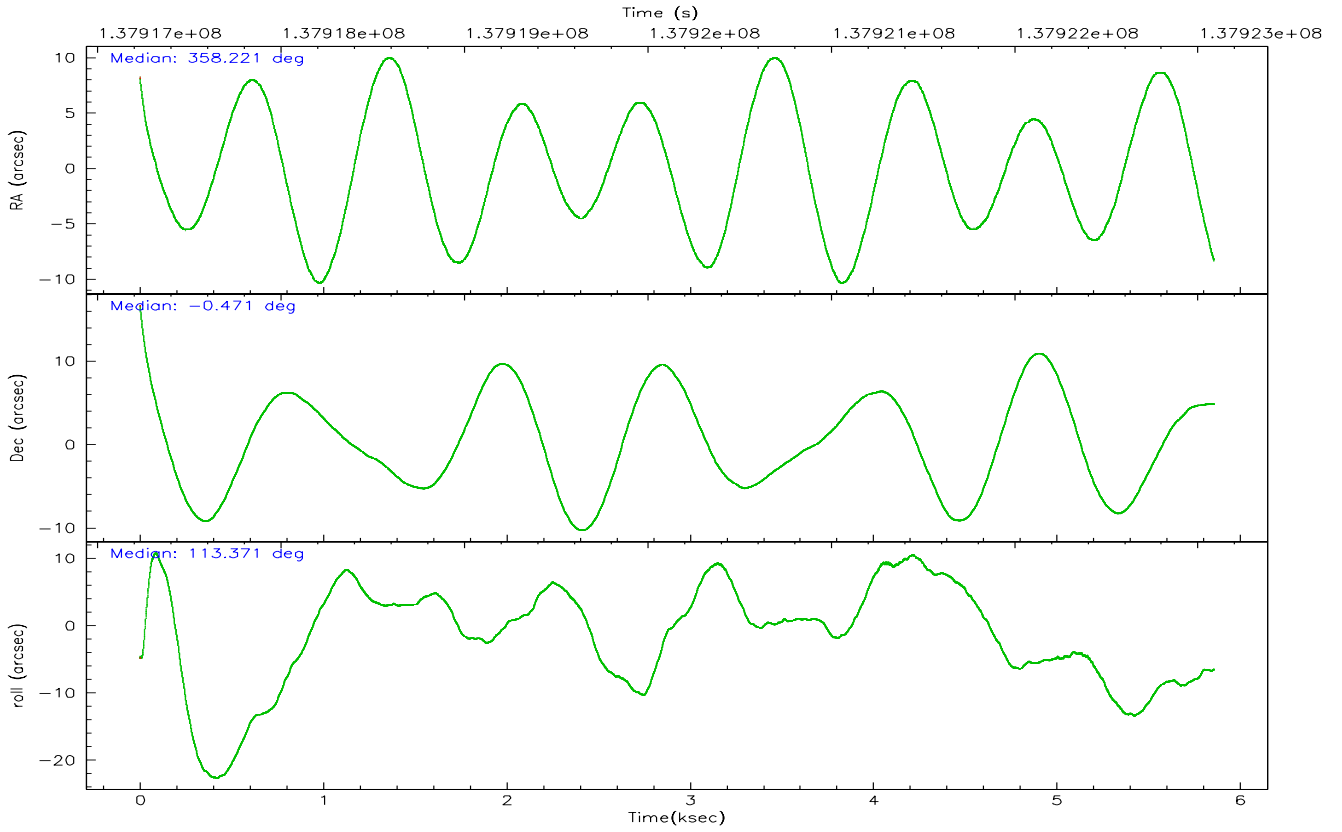
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1743	1756	3940	1762	1125	3252
	4%	4%	6%	4%	2%	6%
grade 1 events	23	11	206	17	25	29
	0%	0%	0%	0%	0%	0%
grade 2 events	923	848	7529	924	4683	2193
	2%	2%	13%	2%	9%	4%
grade 3 events	394	410	581	458	1065	1141
	1%	1%	1%	1%	2%	2%
grade 4 events	408	382	560	446	978	1110
	1%	1%	0%	1%	1%	2%
grade 5 events	1367	1573	2629	1607	3403	2063
	3%	4%	4%	4%	6%	4%
grade 6 events	709	768	13612	850	11092	2521
	1%	2%	23%	2%	22%	5%
grade 7 events	31427	31385	27898	32239	26780	35257
	84%	84%	48%	84%	54%	74%

## 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	358.242770	358.2207293762334	Subarray requested	NONE	NONE
Pointing Dec	-0.487394	-0.4714530376007529	Alternating exposures requested	N	N
Pointing Roll	113.217567	113.3739715564697	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	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	137917090.184000	137916240.60988			
Observation start date	2002-05-16T06:17:06	2002-05-16T06:04:00			
Observation end time	137923090.184000	137923966.54769			
Observation end date	2002-05-16T07:57:06	2002-05-16T08:12:46			
Read mode	TIMED	TIMED			

## 2.3 Aspect



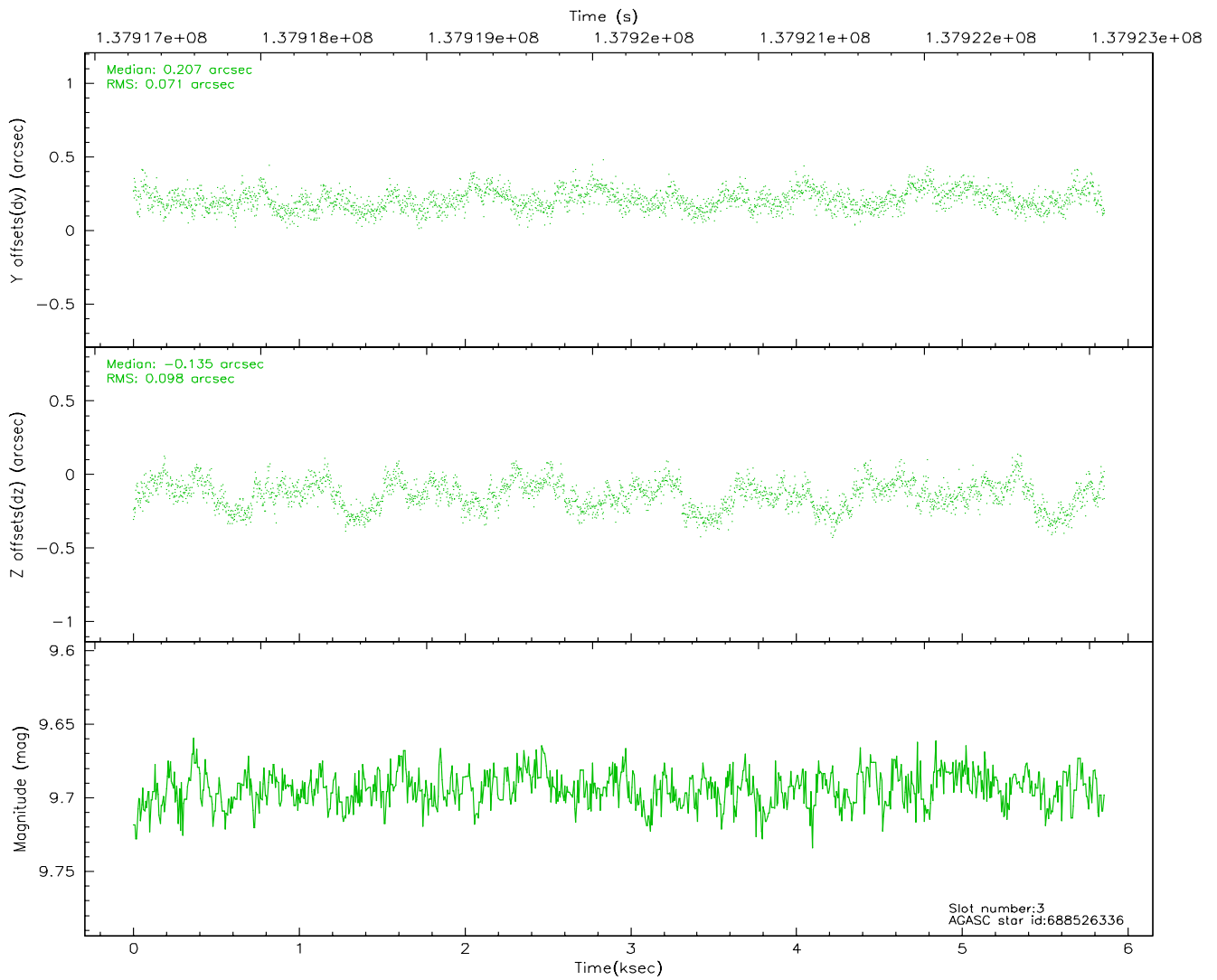
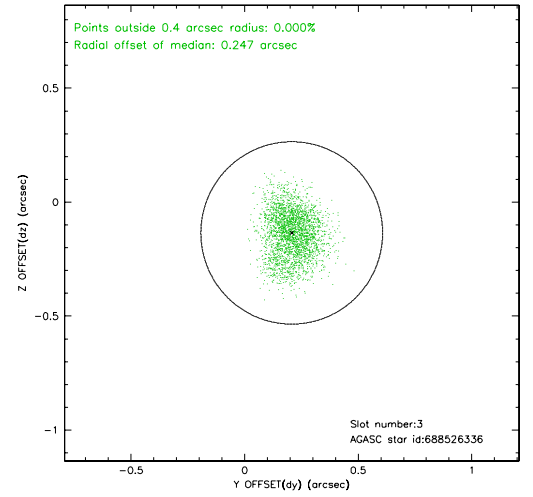
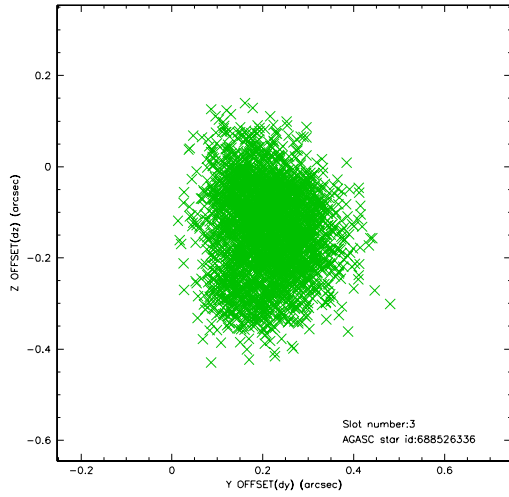


### Slot Statistics

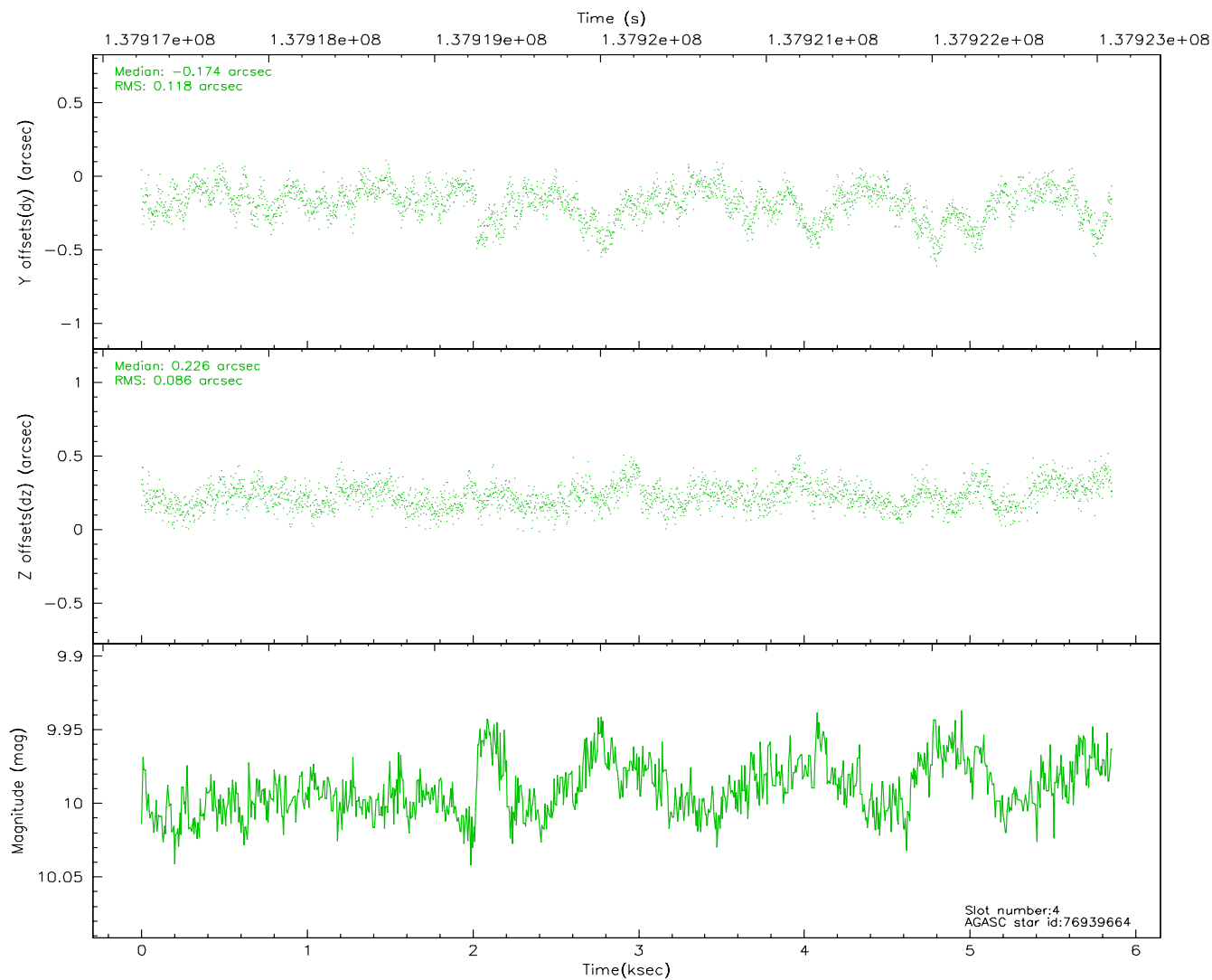
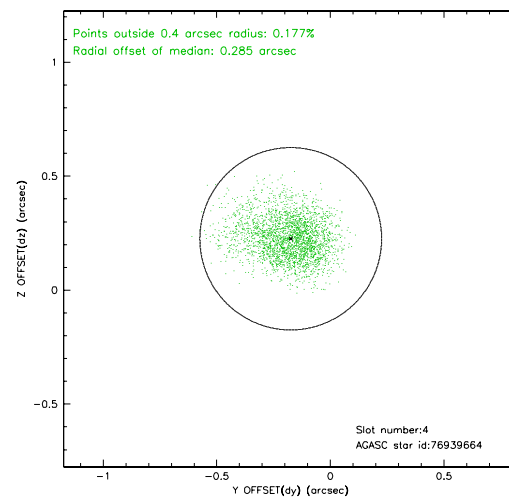
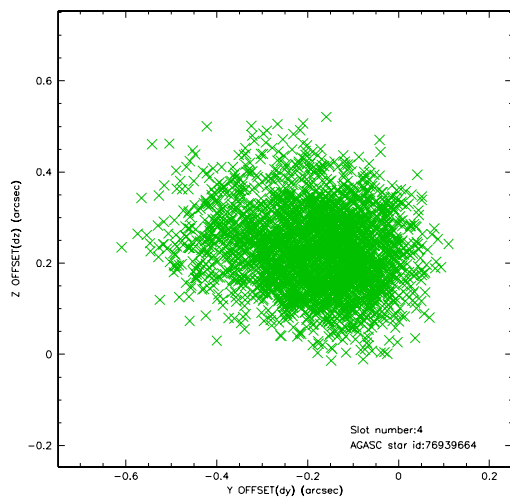
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	1428	-0.010	0.053	0.009	0.014	0.000000	0.000000	-755.32	-1727.70
1	FID	ACIS-S-4	7.00	1430	-0.067	-0.009	0.007	0.012	0.000000	0.000000	2157.42	179.71
2	FID	ACIS-S-5	6.99	1430	0.046	-0.035	0.007	0.012	0.000000	0.000000	-1806.82	174.47
3	GUIDE	688526336	9.69	2857	0.207	-0.135	0.130	0.207	358.185662	-1.015243	-1665.04	938.05
4	GUIDE	76939664	9.99	2822	-0.174	0.226	0.152	0.259	358.521033	0.226751	1967.22	-1933.30
5	GUIDE	688522920	10.41	2854	-0.132	-0.331	0.154	0.245	357.619208	-0.516313	789.64	2103.27
6	GUIDE	688522200	9.91	2859	0.036	0.235	0.125	0.202	358.964663	-0.559880	-1263.84	-2284.28
7	GUIDE	688523712	10.42	2819	0.070	0.012	0.141	0.233	358.654242	-0.622499	-1031.19	-1170.25

## 2.4 Star Slots

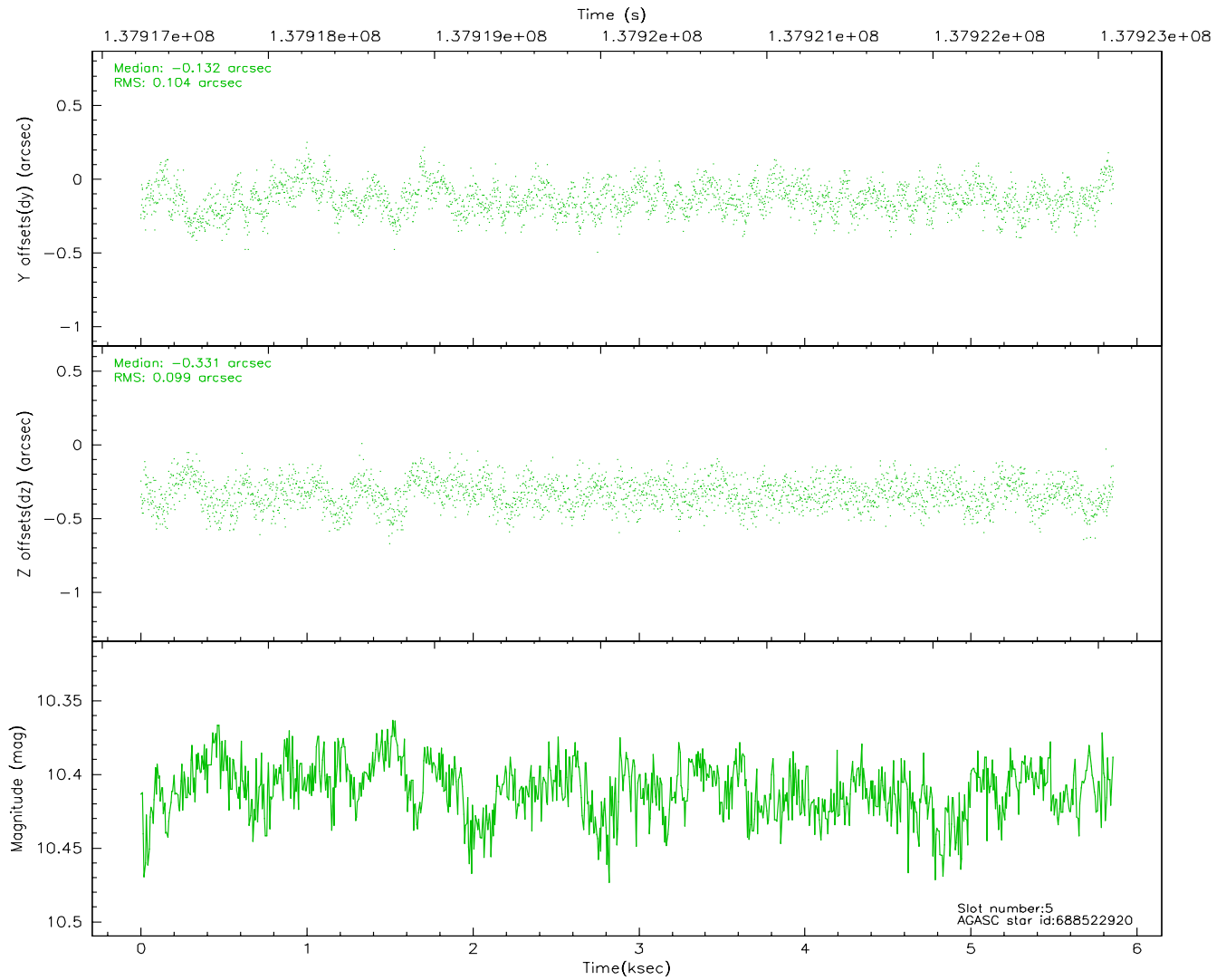
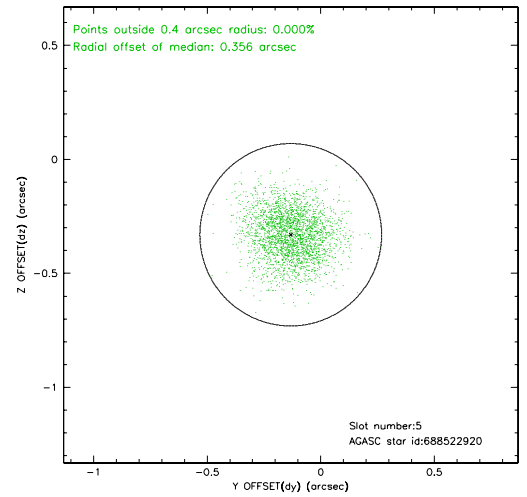
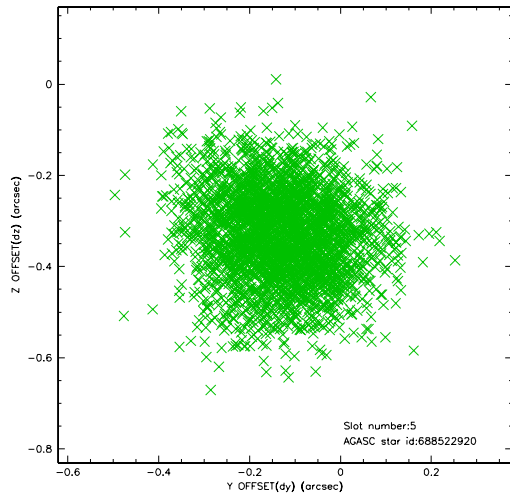
### 2.4.1 Slot 3



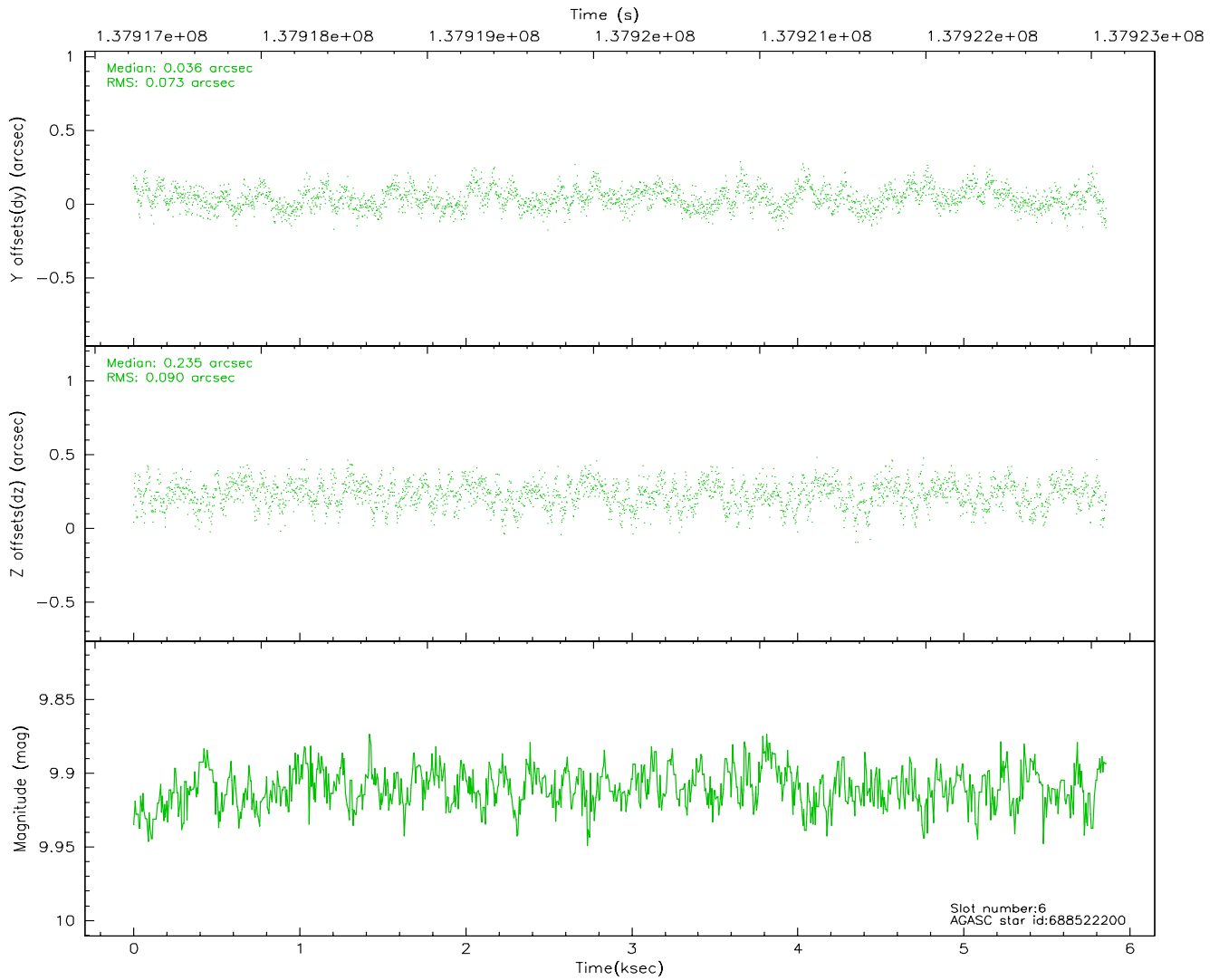
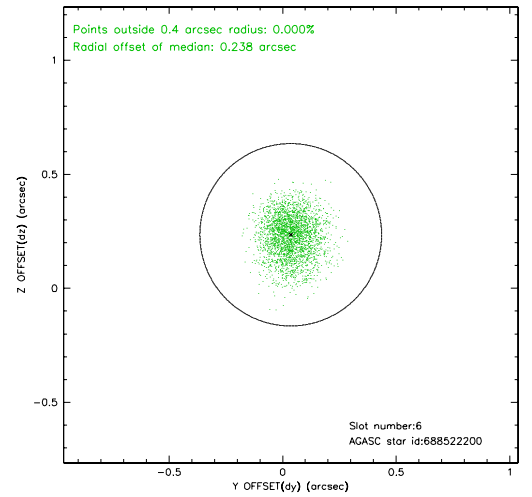
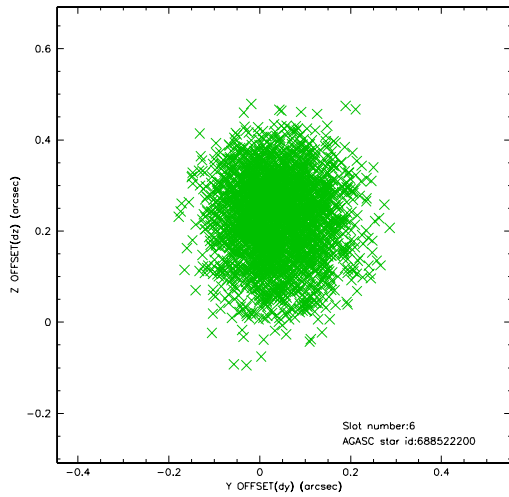
## 2.4.2 Slot 4



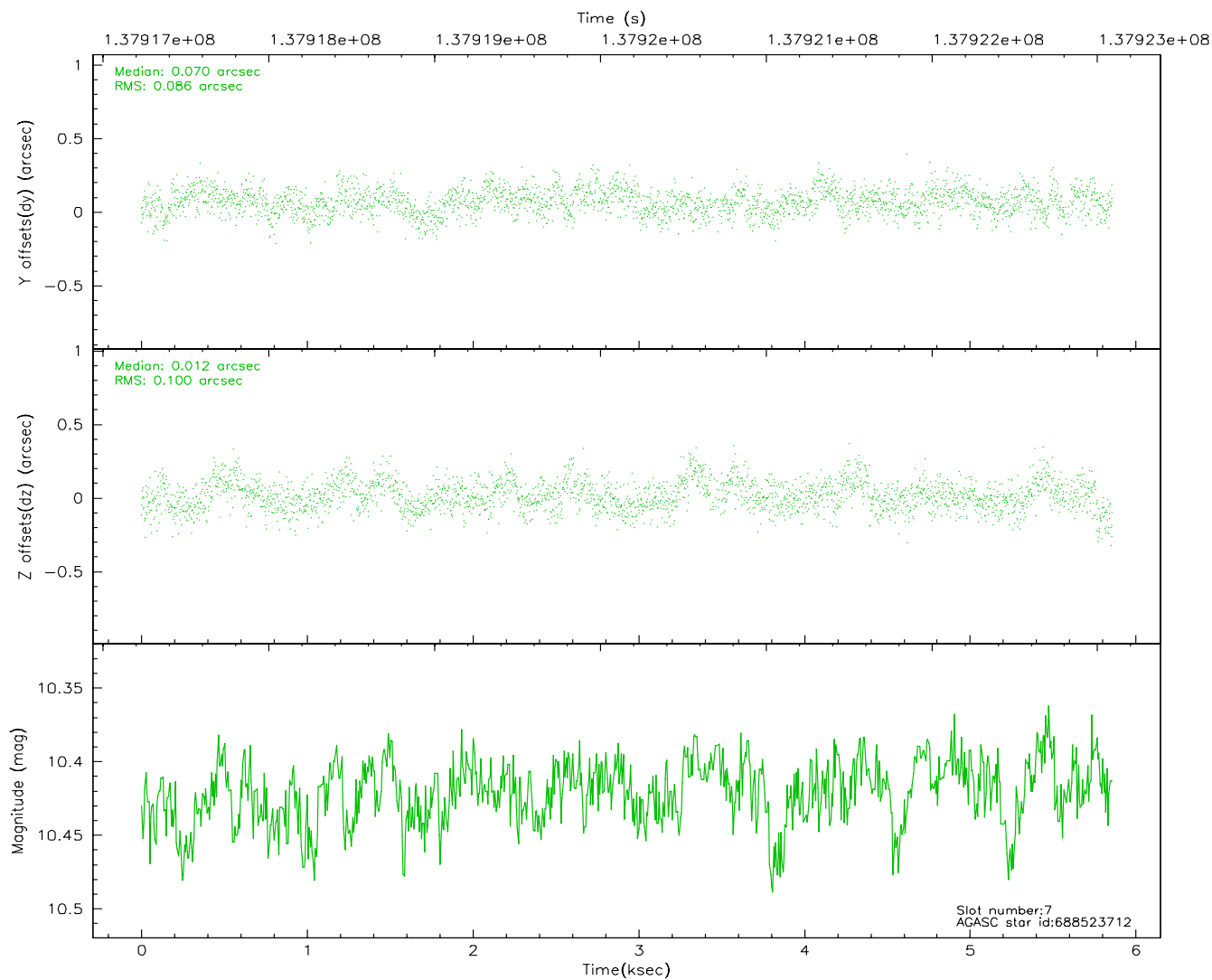
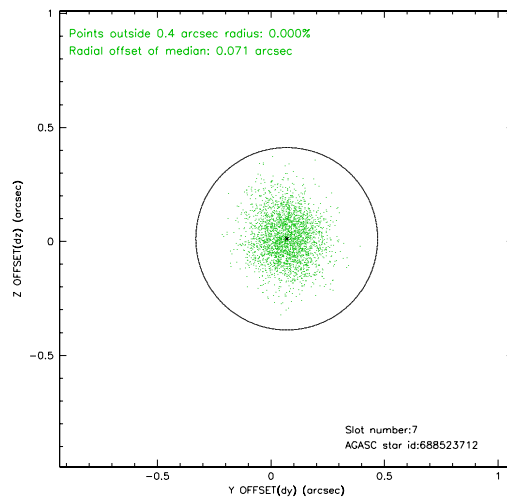
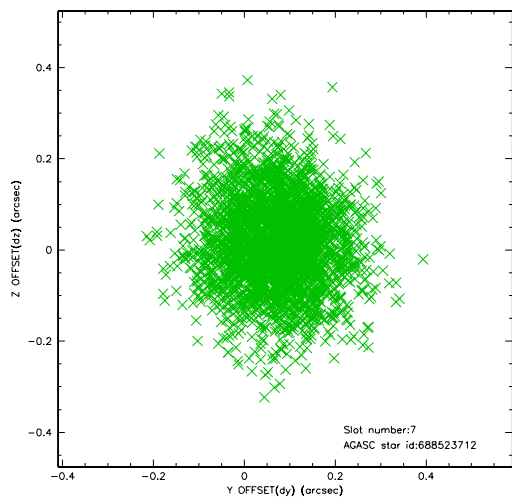
### 2.4.3 Slot 5



### 2.4.4 Slot 6

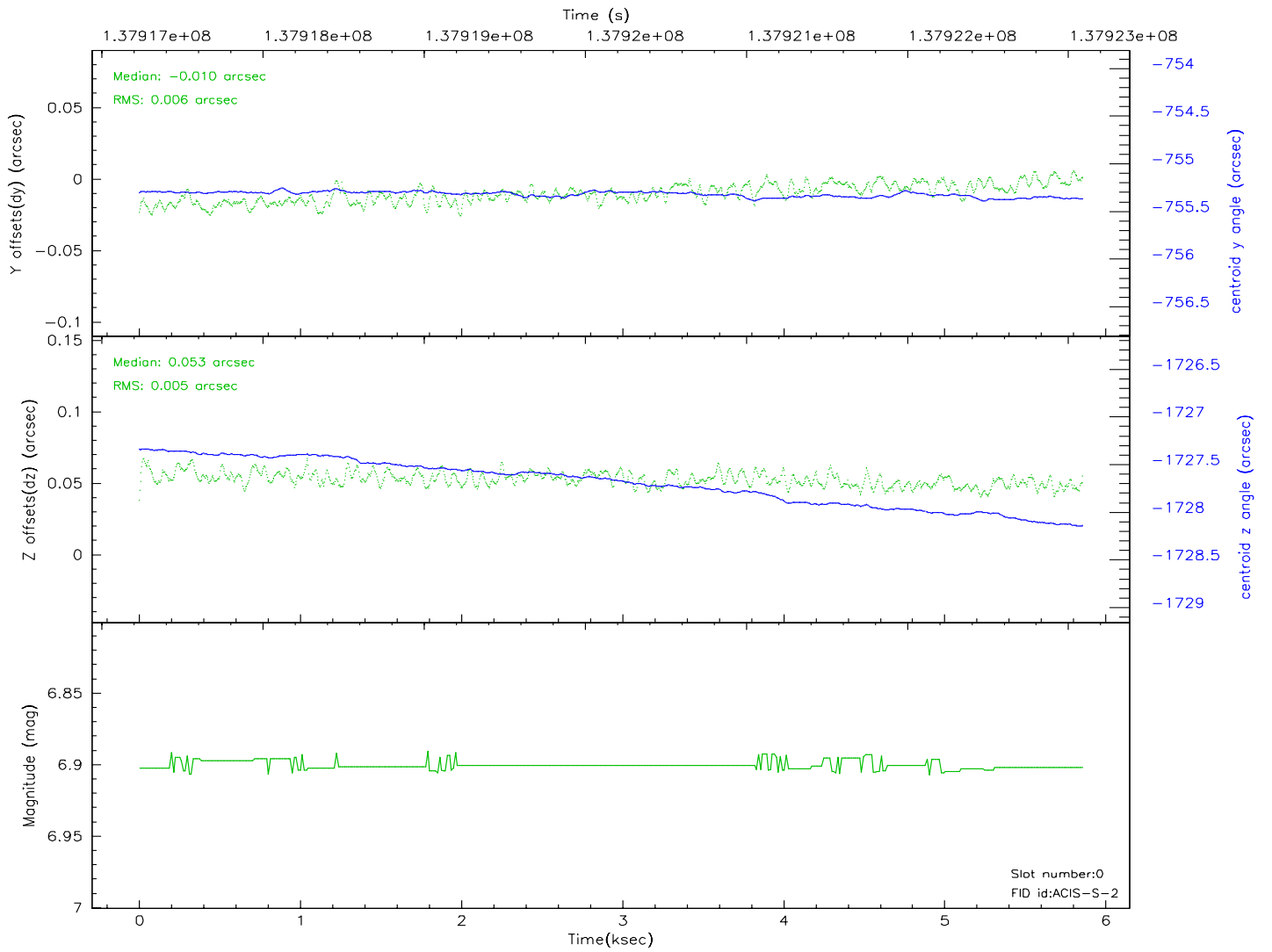
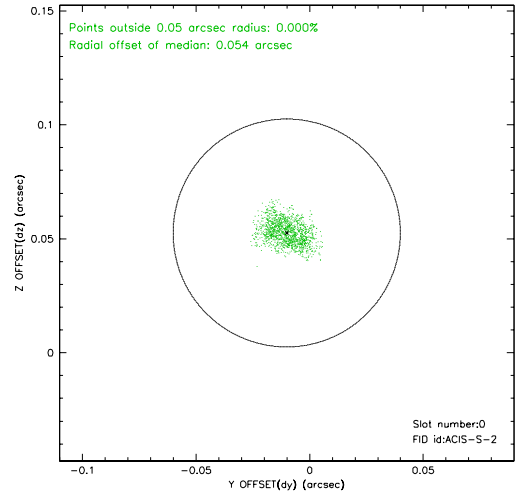
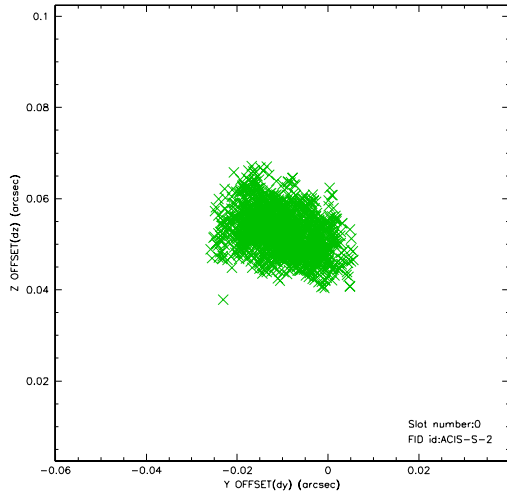


## 2.4.5 Slot 7

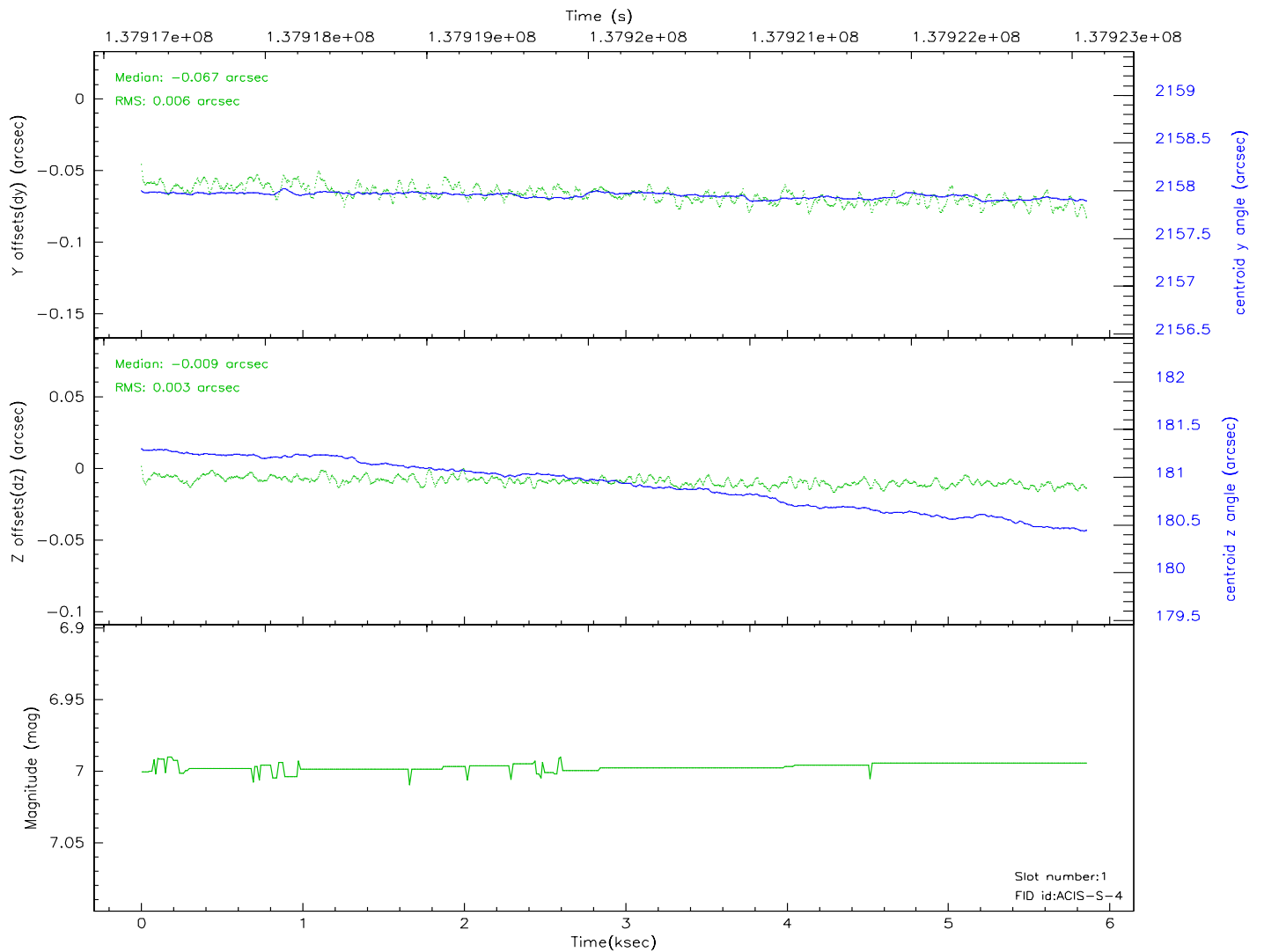
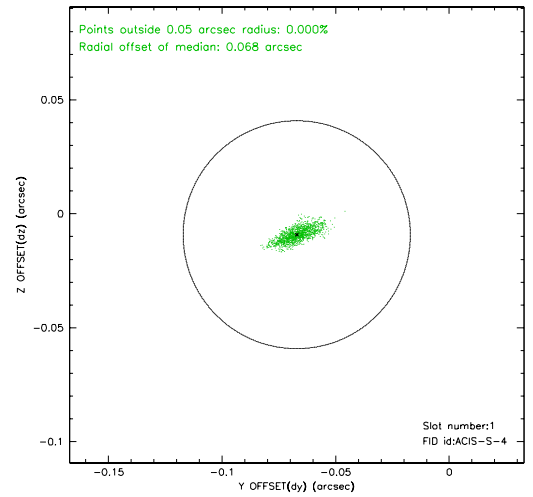
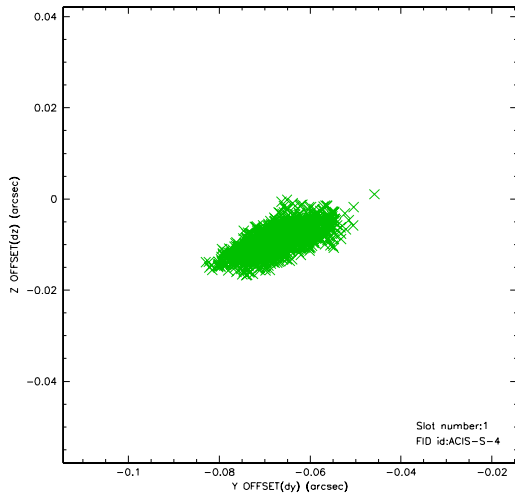


## 2.5 FID Slots

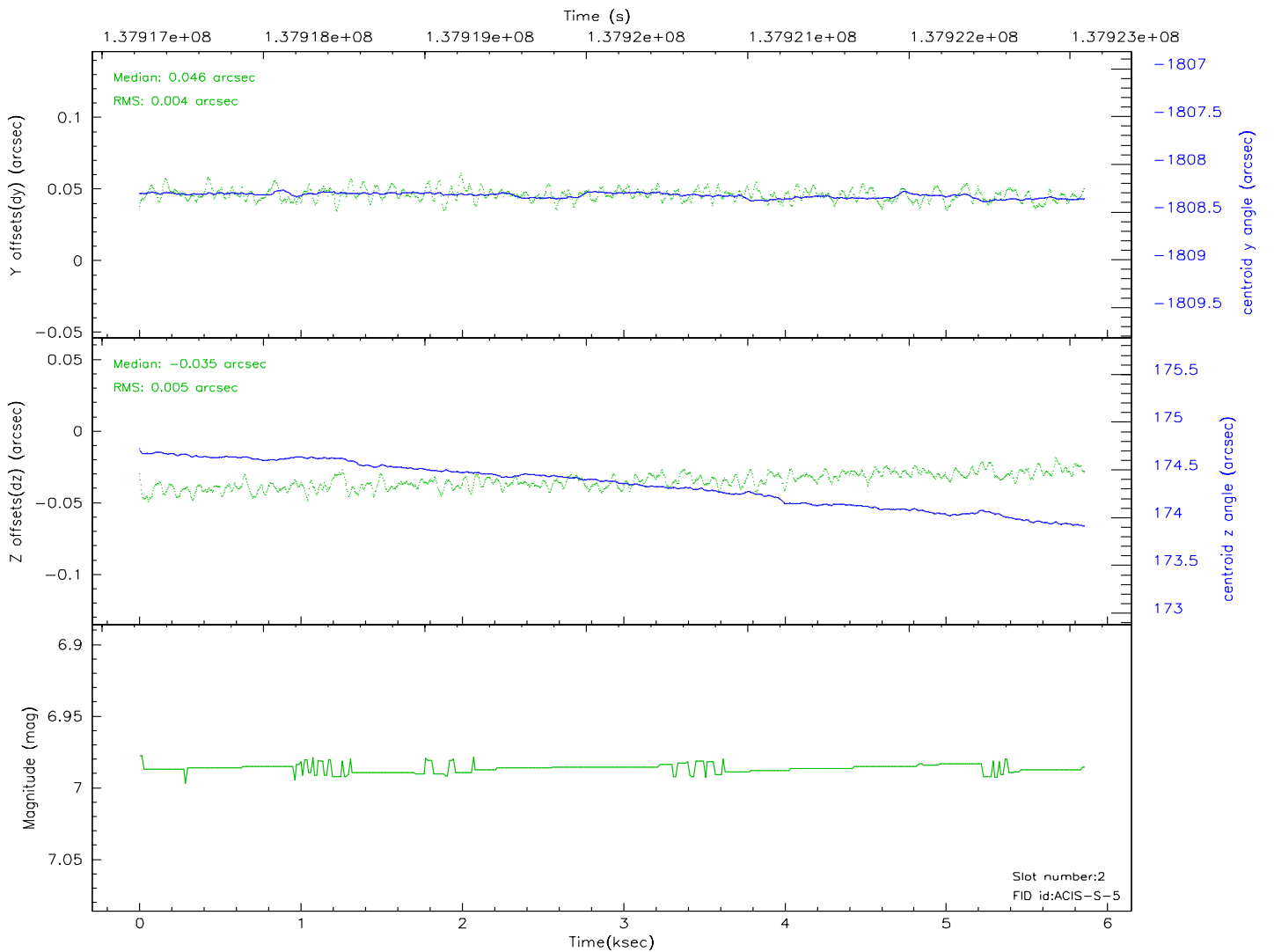
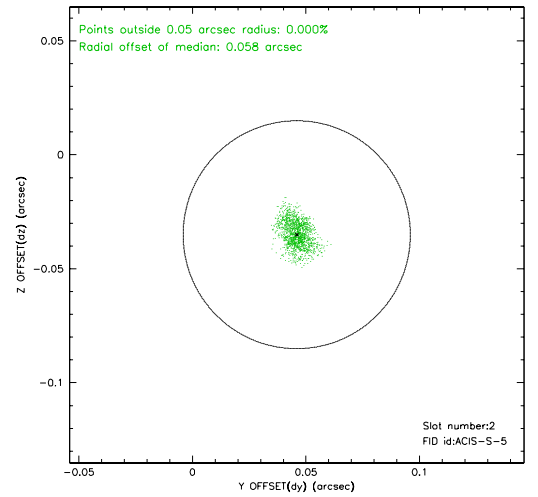
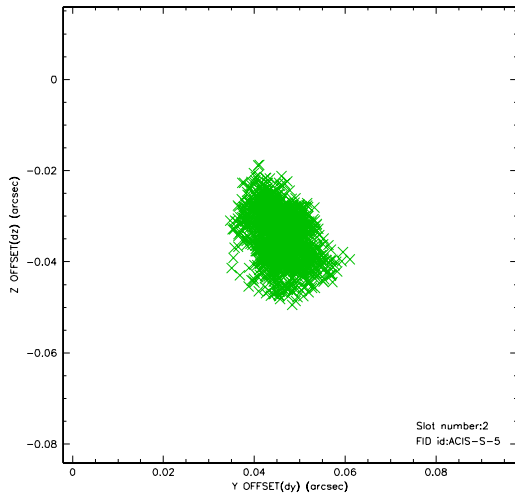
### 2.5.1 Slot 0



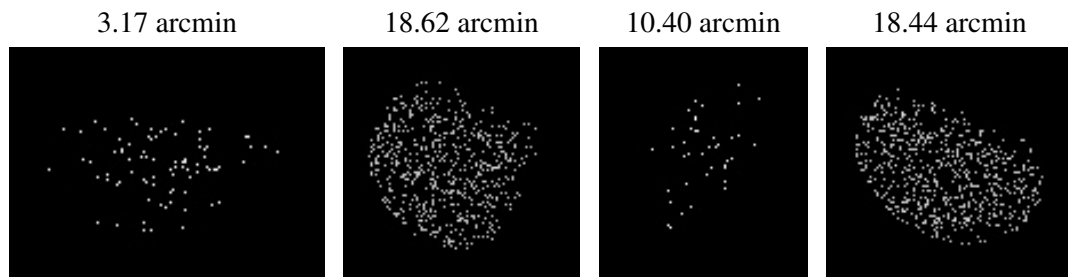
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.853

## A.2 Comments