

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2107 - L2 Version 4  
Chandra X-Ray Center

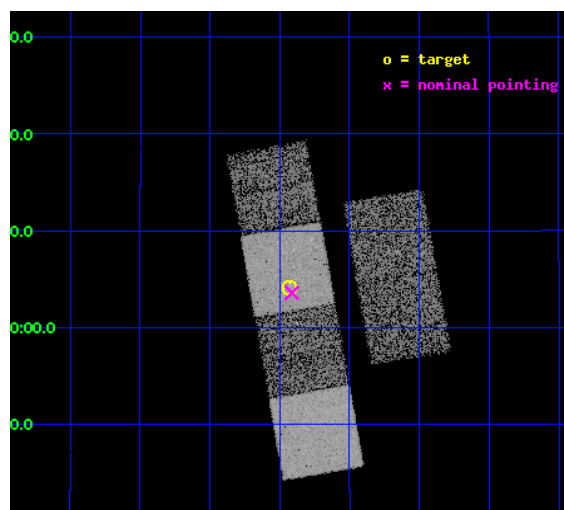
L2 Processing Date : Sep 21 2012

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# 1 Front

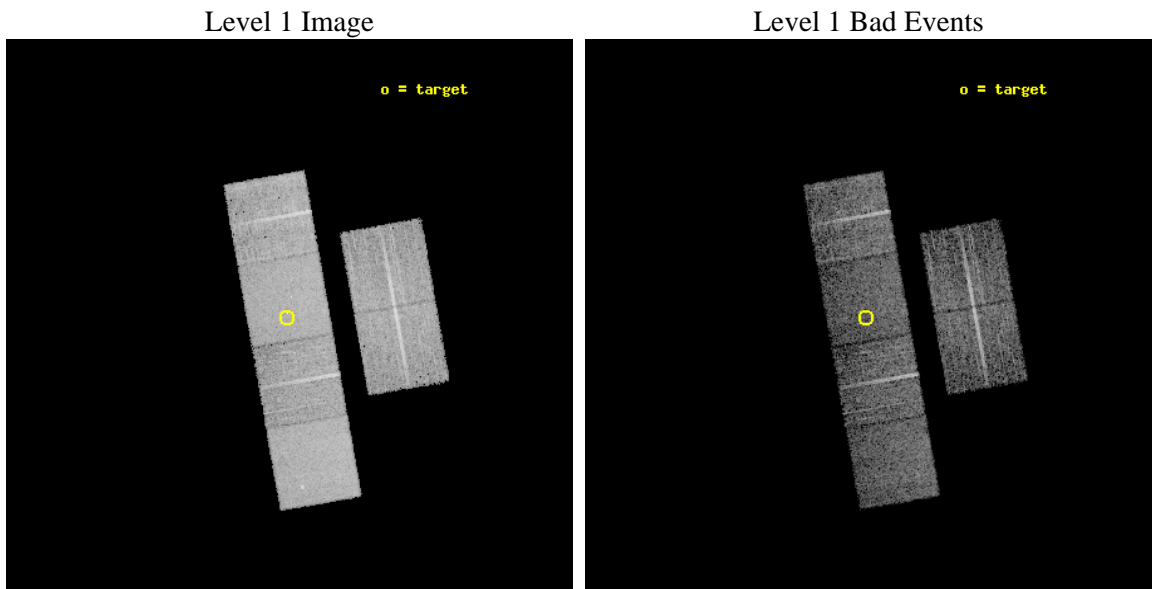
seq_num	700297	Sequence number
obs_id	2107	Observation id
title	PUBLIC OBSERVATIONS OF A WELL-DEFINED SAMPLE OF BAL QSOs FROM THE LARGE BRIGHT QUASAR SURVEY: REMOVING THE BARRIERS	Proposal title
observer	Prof. William Brandt	Principal investigator
object	LBQS 1231+1320	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.481667	Observer's specified target RA [deg]
dec_targ	13.069028	Observer's specified target Dec [deg]
ra_nom	188.47820090992	Nominal RA [deg]
dec_nom	13.05991783068	Nominal Dec [deg]
roll_nom	259.89671324999	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6793.6000063121	Sum of GTIs [s]
livedtime	6707.5753524174	Livetime [s]
ontime2	6793.6000063121	Sum of GTIs [s]
ontime3	6793.6000063121	Sum of GTIs [s]
ontime5	6793.6000063121	Sum of GTIs [s]
ontime6	6793.6000063121	Sum of GTIs [s]
ontime7	6793.6000063121	Sum of GTIs [s]
ontime8	6793.6000063121	Sum of GTIs [s]
l2events	74834	Number of level 2 events



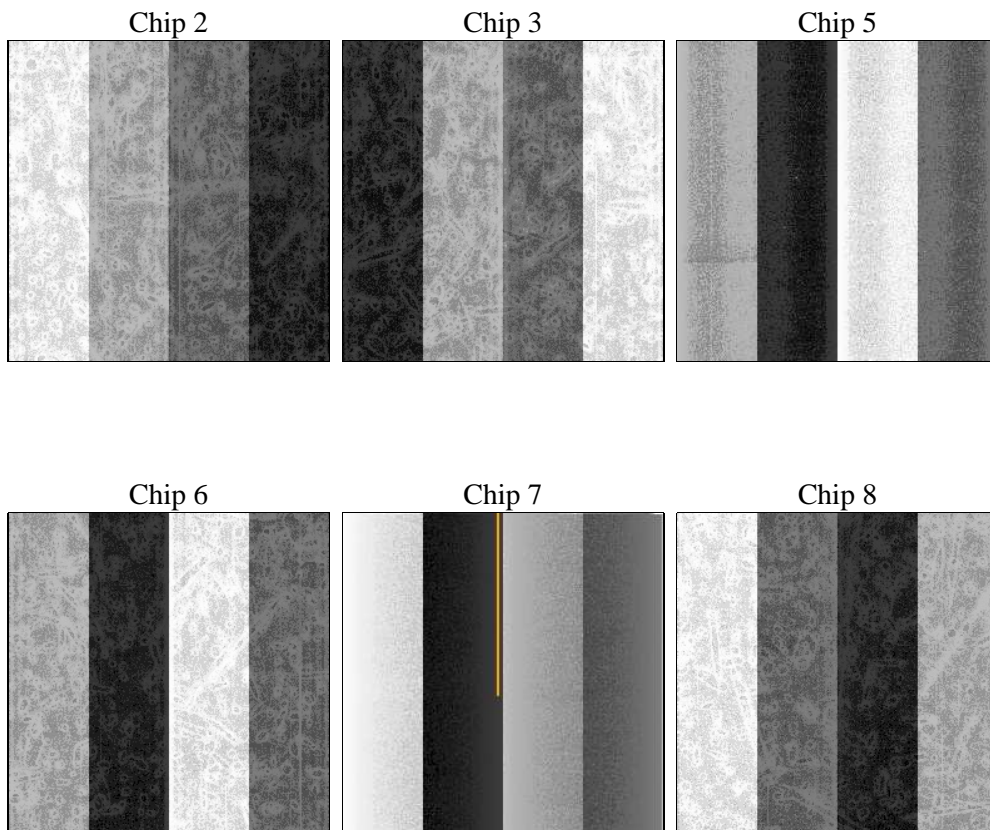
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6680.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6793.6000063121	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime2	6793.6000063121	Sum of GTIs [s]
date	2012-09-21T11:34:09	Date and time of file creation	ontime3	6793.6000063121	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	6793.6000063121	Sum of GTIs [s]
			ontime6	6793.6000063121	Sum of GTIs [s]
			ontime7	6793.6000063121	Sum of GTIs [s]
			ontime8	6793.6000063121	Sum of GTIs [s]
			l1events	396908	Number of level 1 events

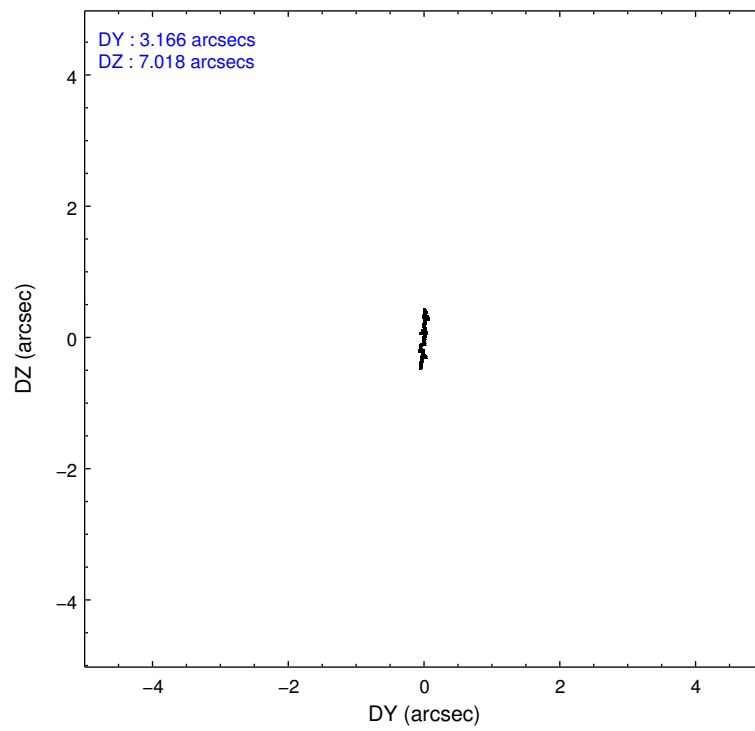
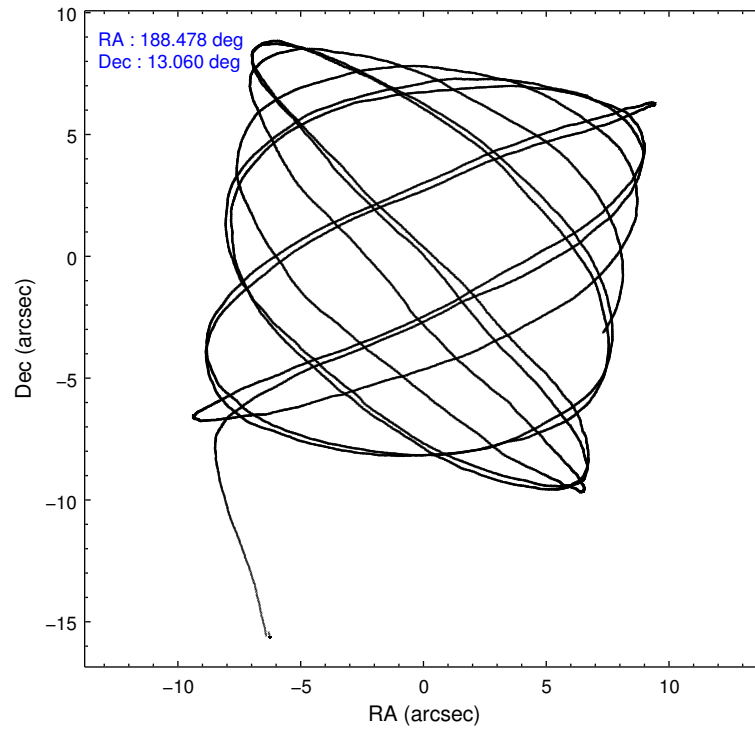
### 2.1.4 Events

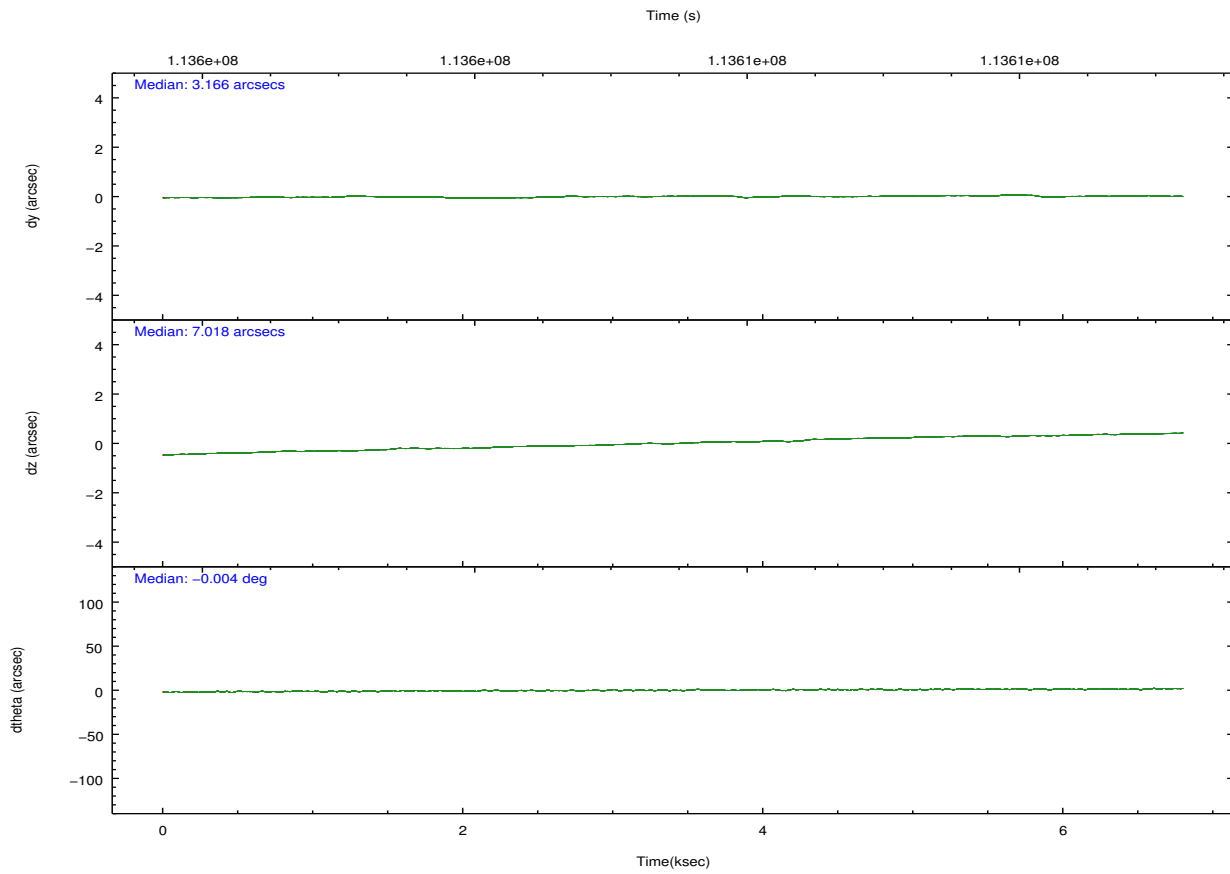
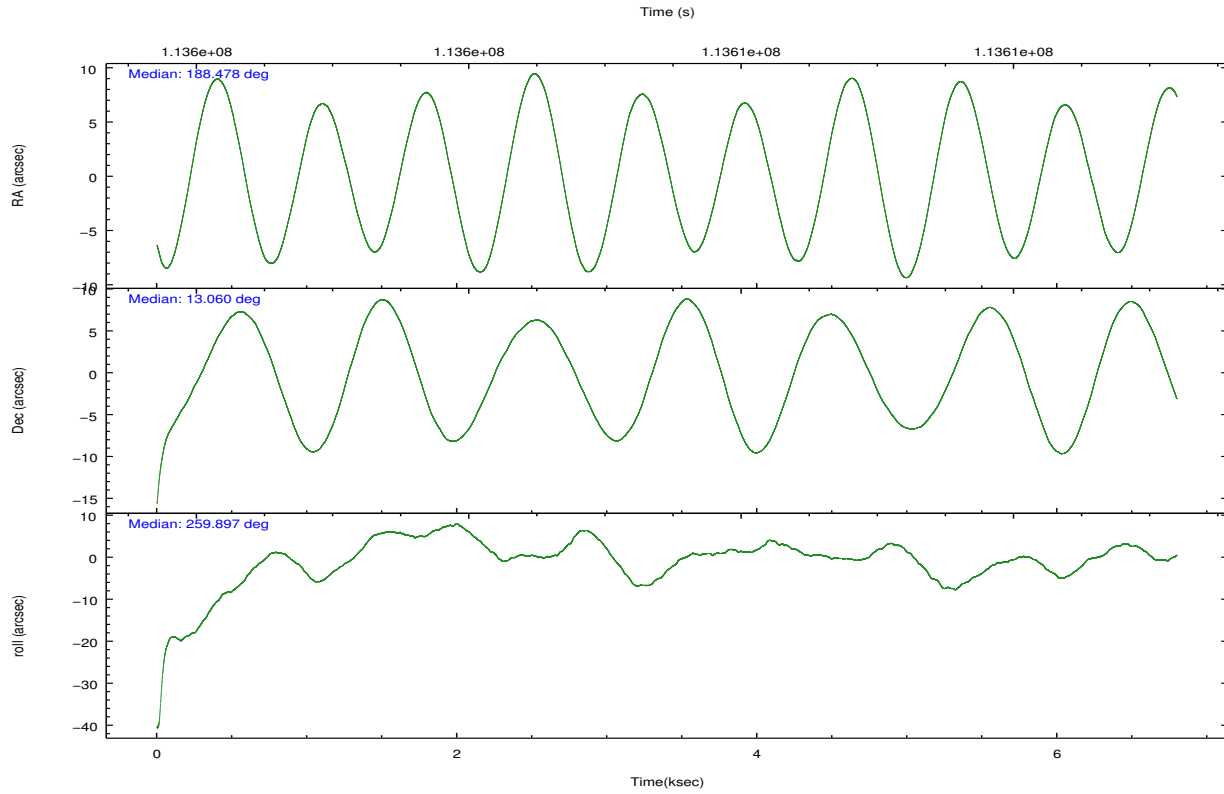
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	56808	56359	79954	57820	74035	71932	grade 0 events	3301	3260	4160	3464	3493	4833
rejected events	51010	50688	50022	51797	48129	60361		5%	5%	5%	5%	4%	6%
rejected %	89%	89%	62%	89%	65%	83%	grade 1 events	36	25	85	33	62	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	1417	1338	10838	1369	6438	3055
								2%	2%	13%	2%	8%	4%
							grade 3 events	593	626	1786	651	2853	1534
								1%	1%	2%	1%	3%	2%
							grade 4 events	635	651	1689	645	2968	1456
								1%	1%	2%	1%	4%	2%
							grade 5 events	2080	2164	5970	2447	6922	3029
								3%	3%	7%	4%	9%	4%
							grade 6 events	1186	1163	19201	1277	16454	3684
								2%	2%	24%	2%	22%	5%
							grade 7 events	47560	47132	36225	47934	34845	54296
								83%	83%	45%	82%	47%	75%

## 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	188.468375	188.4782009099237	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.085431	13.05991783068026	Alternating exposures requested	N	N
[deg] Pointing Roll	259.742362	259.8967132499938	[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)	113602177.184000	113600217.93475			
Observation start date	2001-08-07T20:08:33	2001-08-07T19:36:57			
[s] Observation end time (MET)	113608857.184000	113609213.3351			
Observation end date	2001-08-07T21:59:53	2001-08-07T22:06:53			
Read mode	TIMED	TIMED			

## 2.3 Aspect





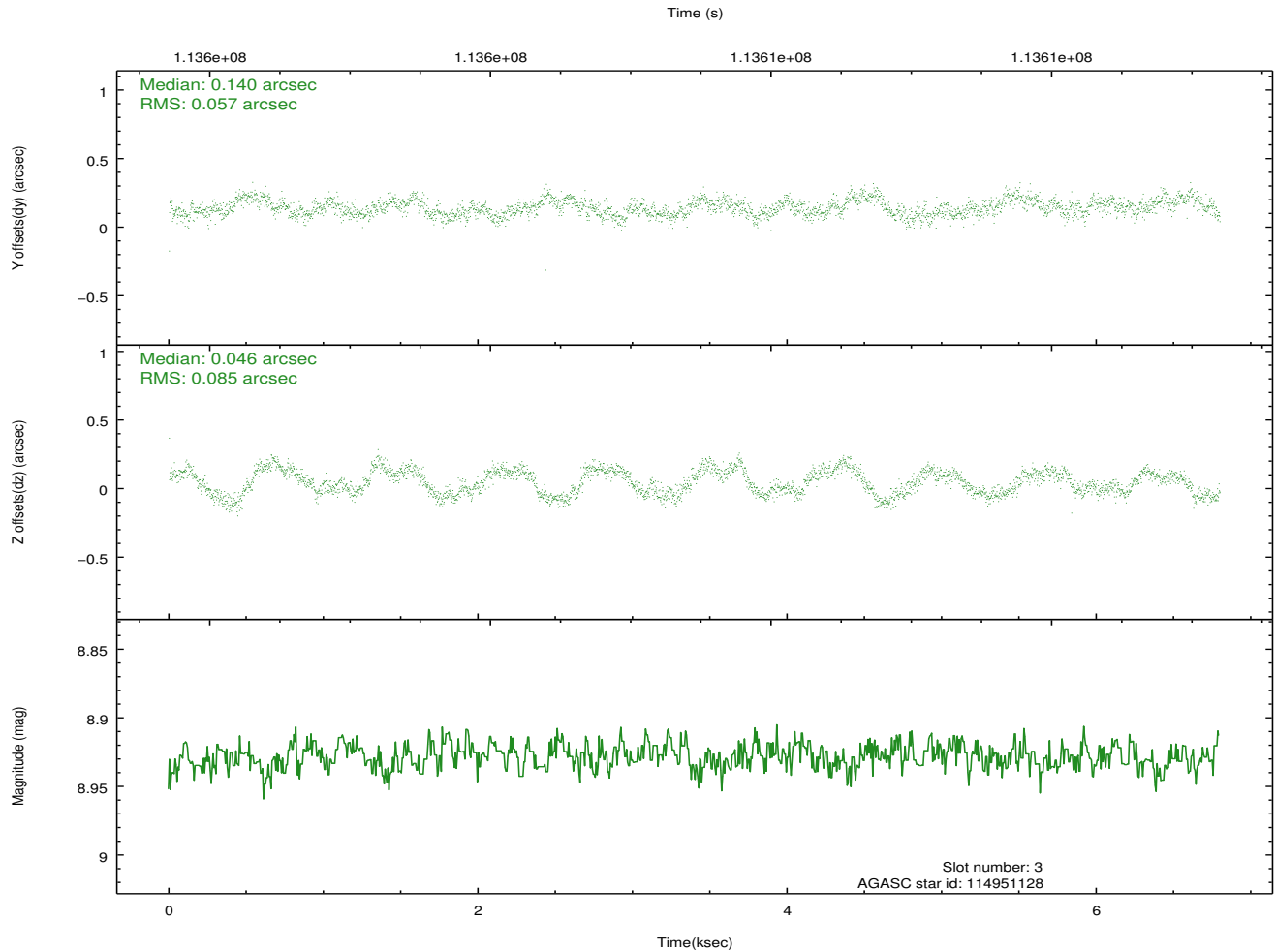
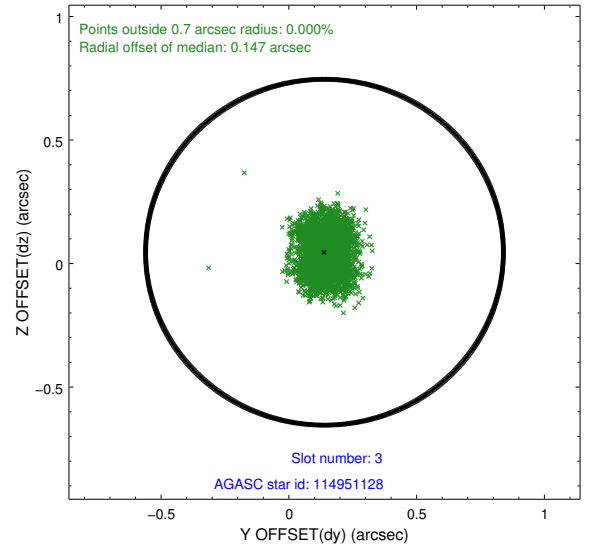
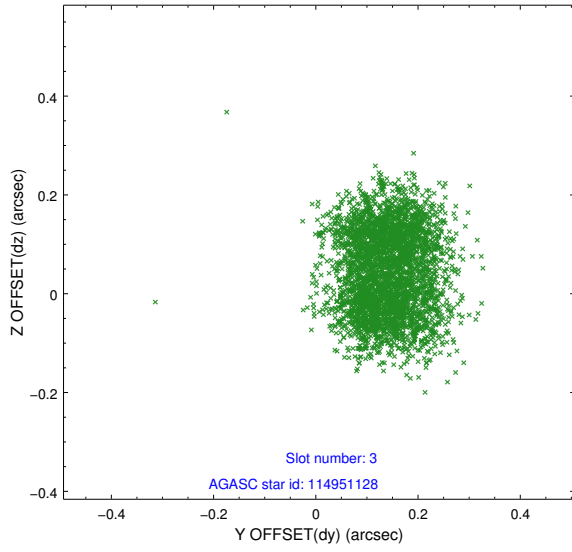
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1659	-0.006	0.009	0.009	0.015	0.000000	0.000000	-755.81	-1728.18
1	FID	ACIS-S-4	7.20	1659	-0.047	0.001	0.007	0.012	0.000000	0.000000	2157.04	179.42
2	FID	ACIS-S-5	7.24	1659	0.021	-0.000	0.009	0.014	0.000000	0.000000	-1807.53	174.05
3	GUIDE	114951128	8.93	3317	0.140	0.046	0.112	0.166	188.719863	12.459246	2060.24	1272.88
4	GUIDE	115349088	9.26	3311	-0.001	0.153	0.320	0.431	188.777694	12.938966	325.15	1163.57
5	GUIDE	115349560	9.87	3316	-0.076	-0.100	0.121	0.192	188.086555	13.583828	-1528.96	-1633.22
6	GUIDE	115348568	10.25	3314	-0.060	-0.027	0.141	0.221	188.076087	13.658173	-1786.57	-1716.87
7	GUIDE	115479688	9.91	3312	-0.007	-0.024	0.206	0.356	188.989208	13.490346	-1761.87	1535.15

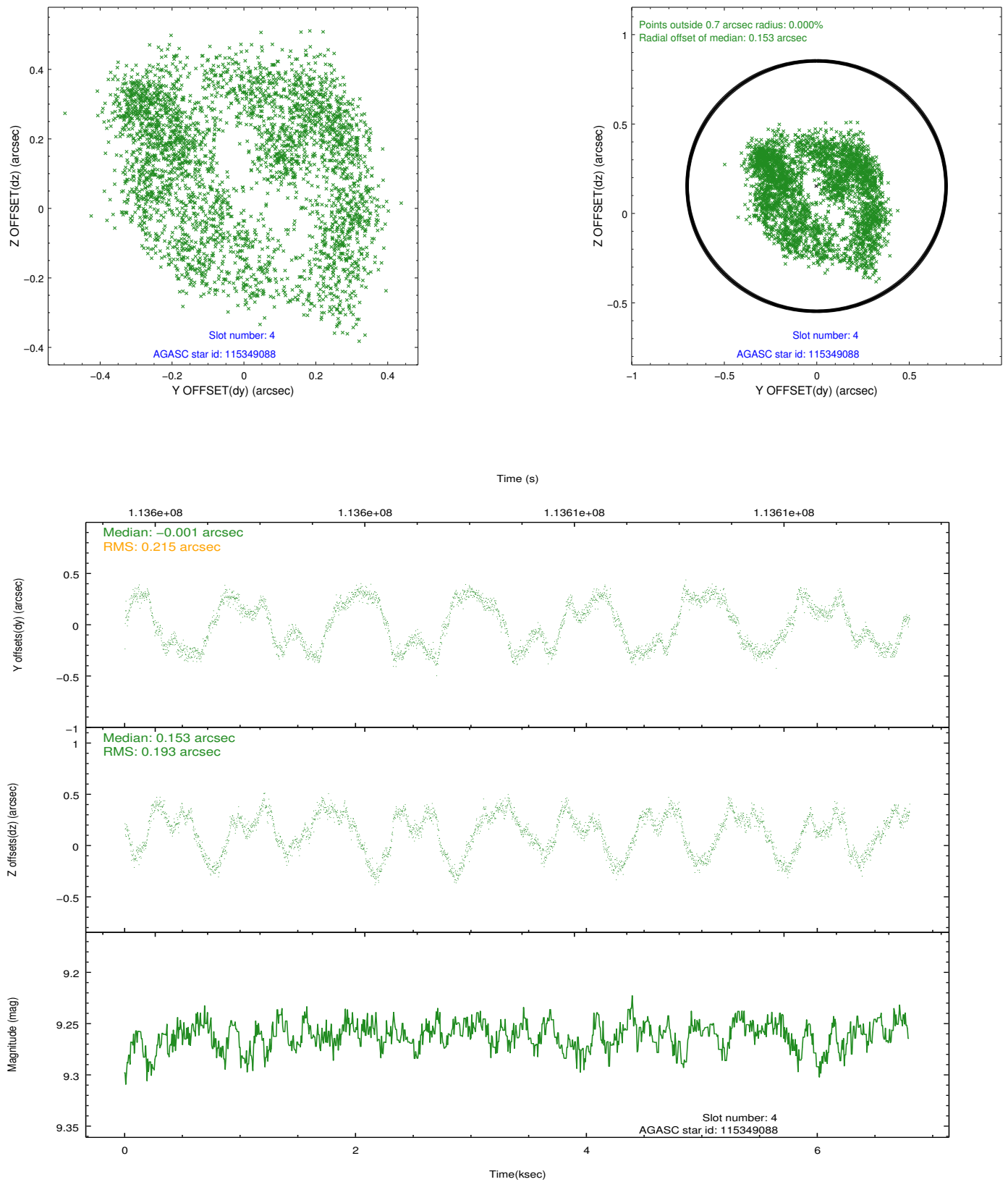
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## 2.4 Star Slots

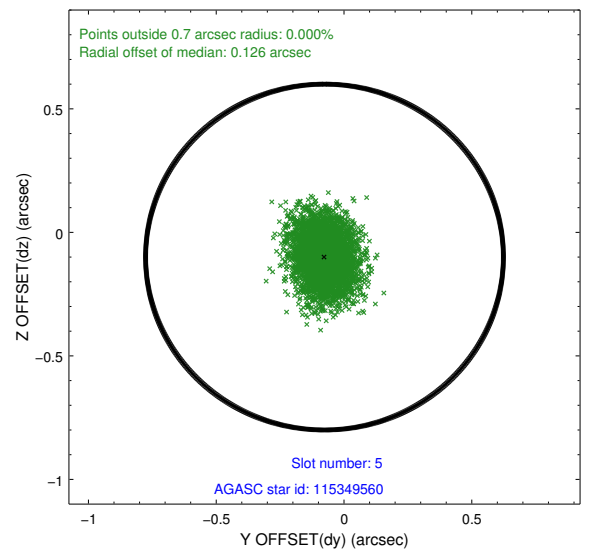
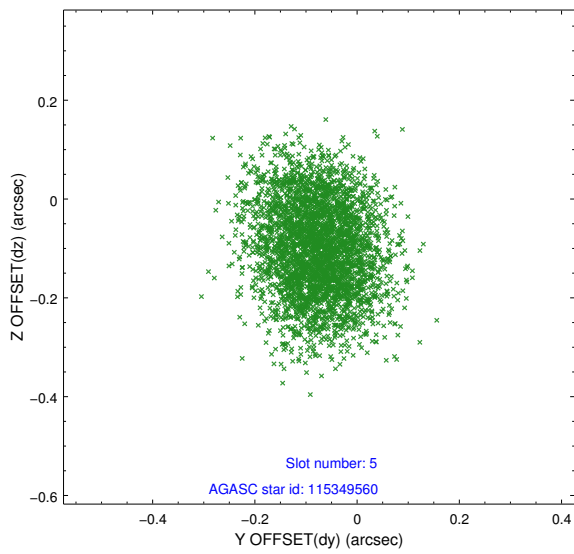
### 2.4.1 Slot 3



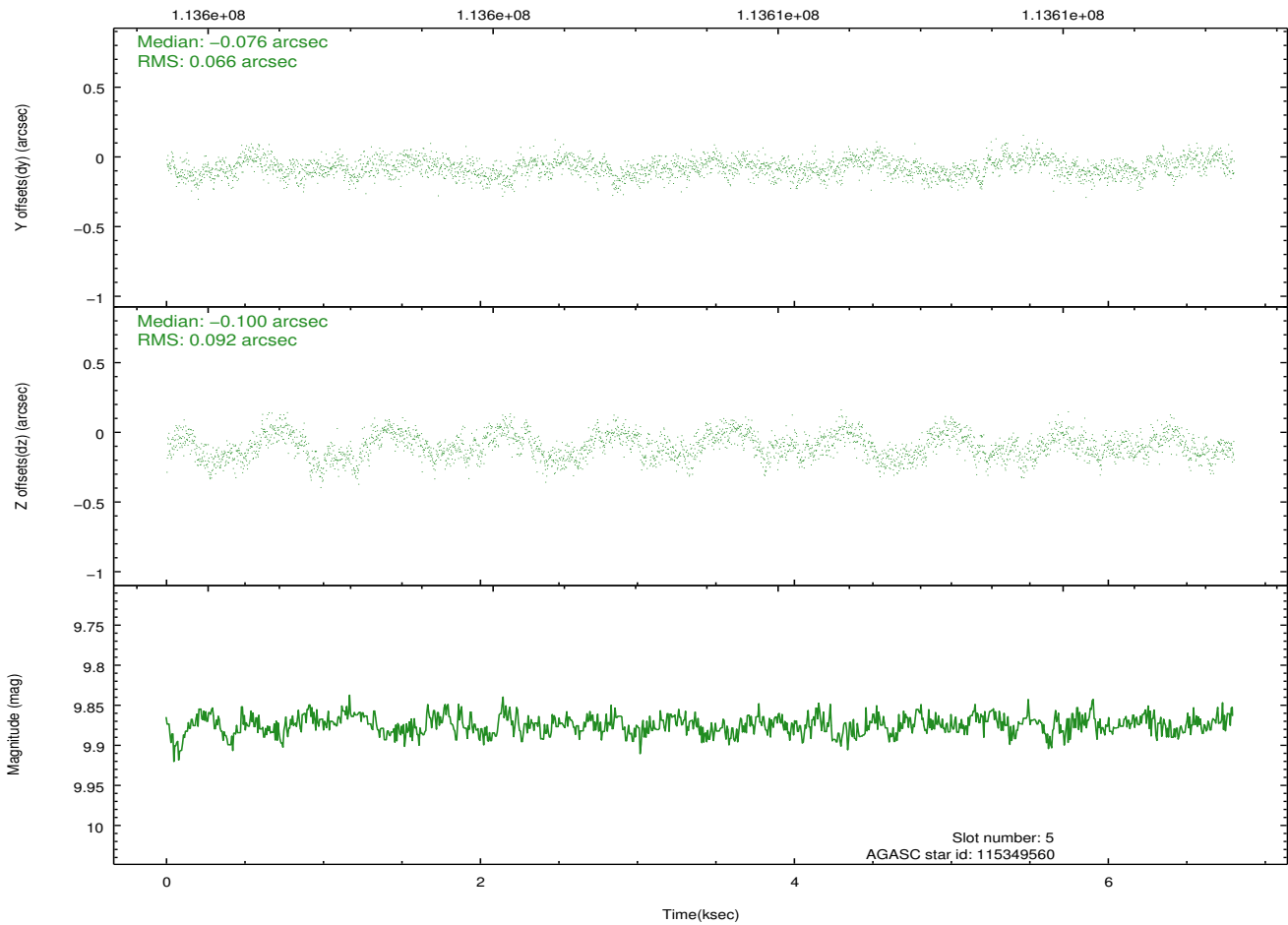
## 2.4.2 Slot 4



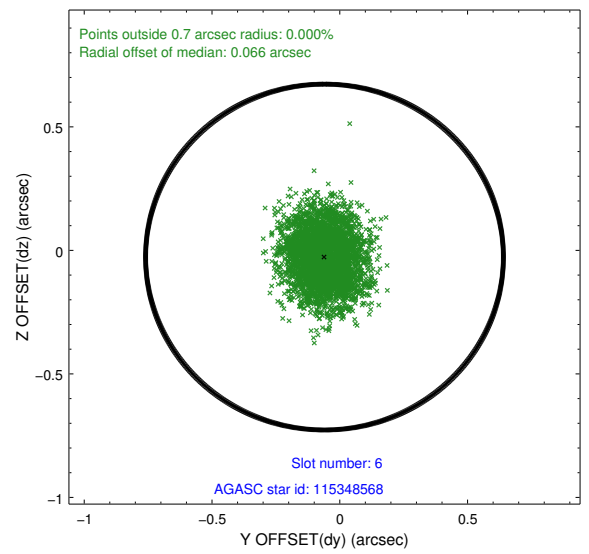
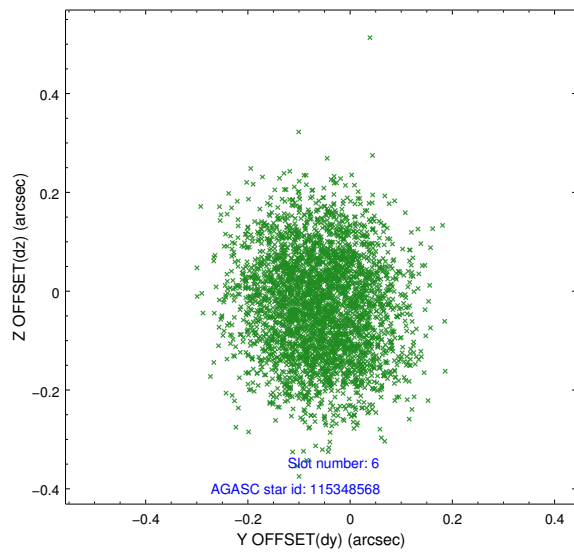
### 2.4.3 Slot 5



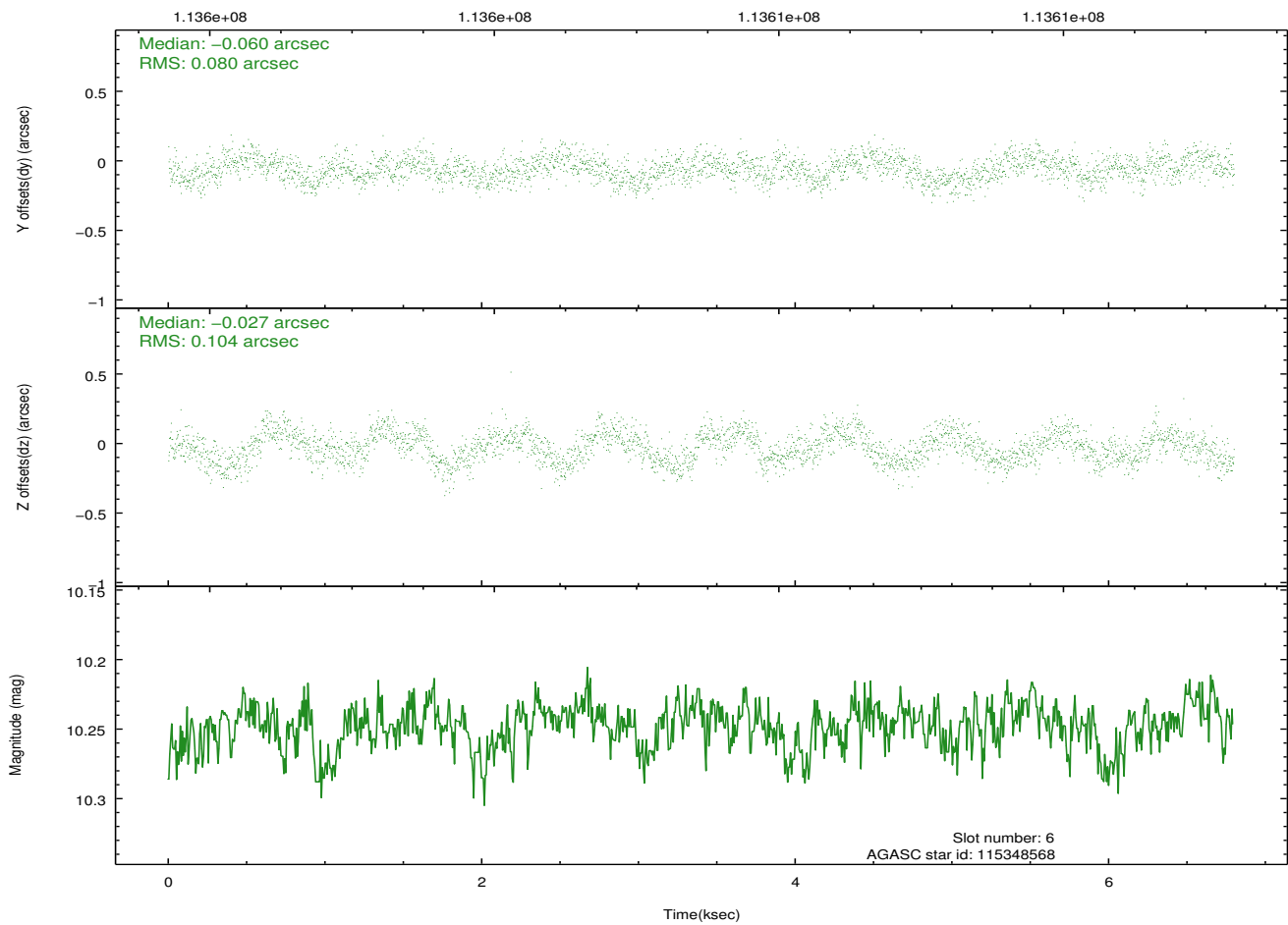
Time (s)



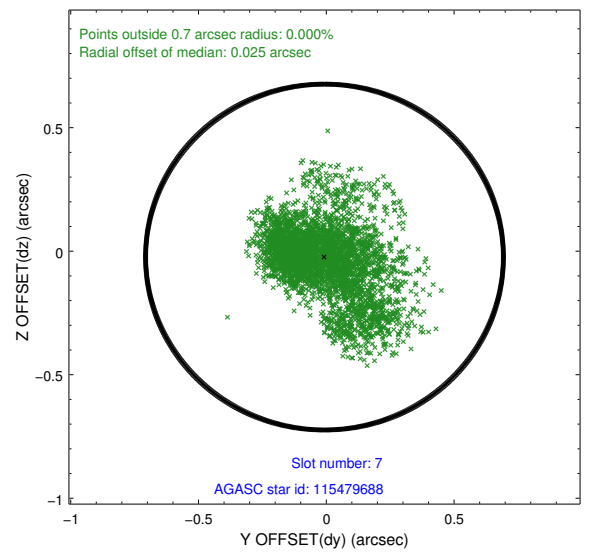
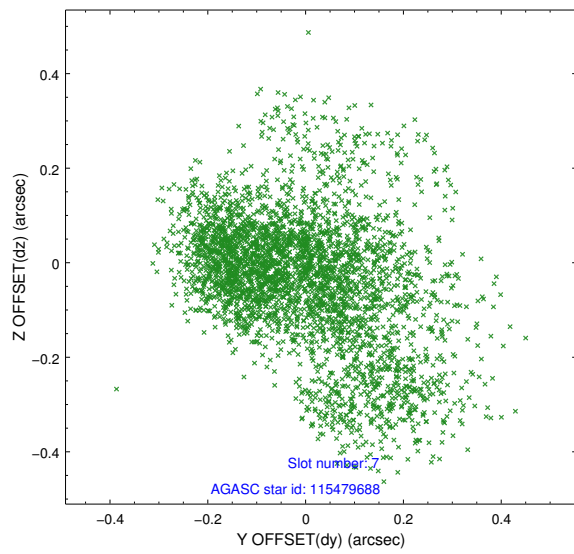
## 2.4.4 Slot 6



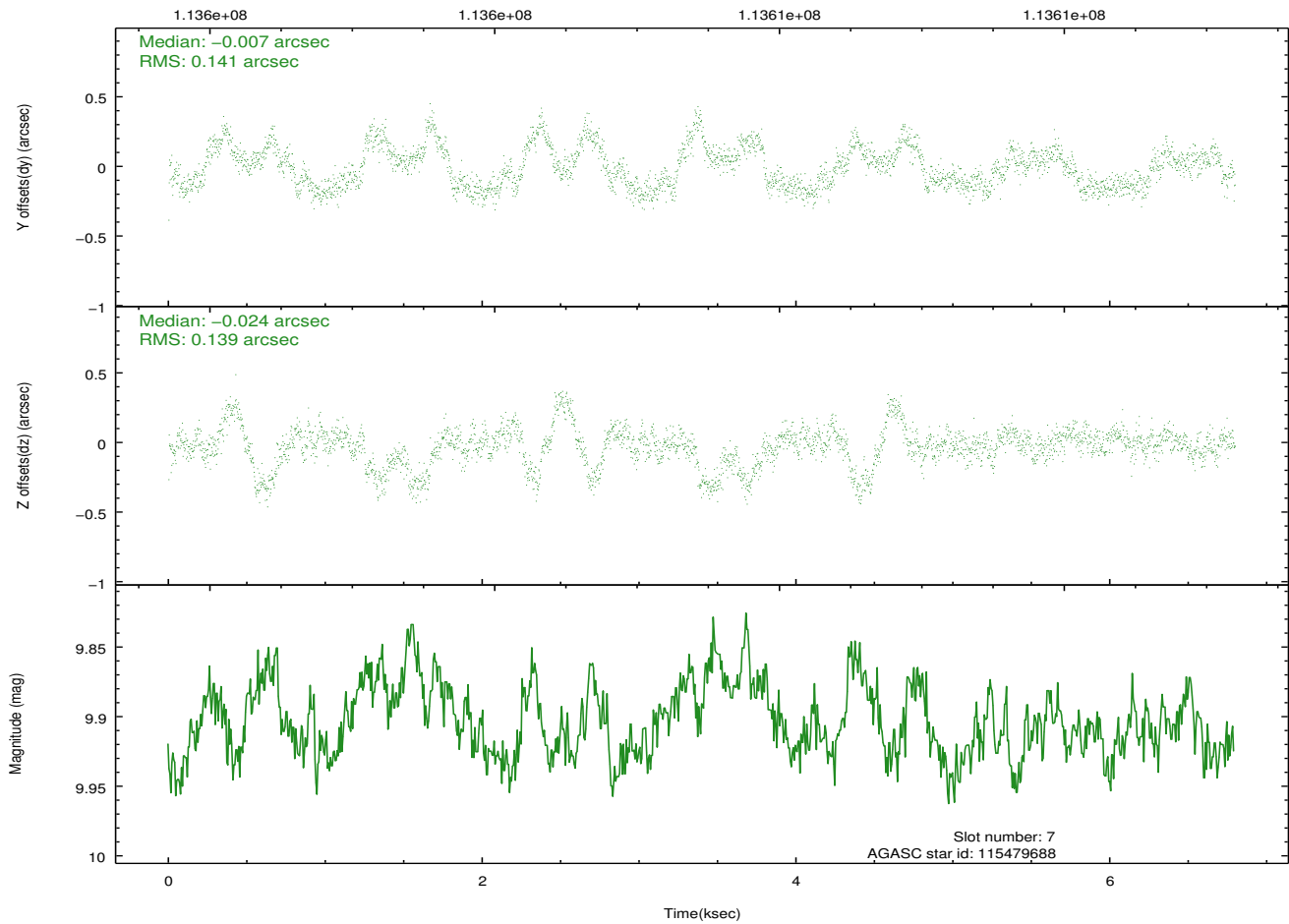
Time (s)



## 2.4.5 Slot 7

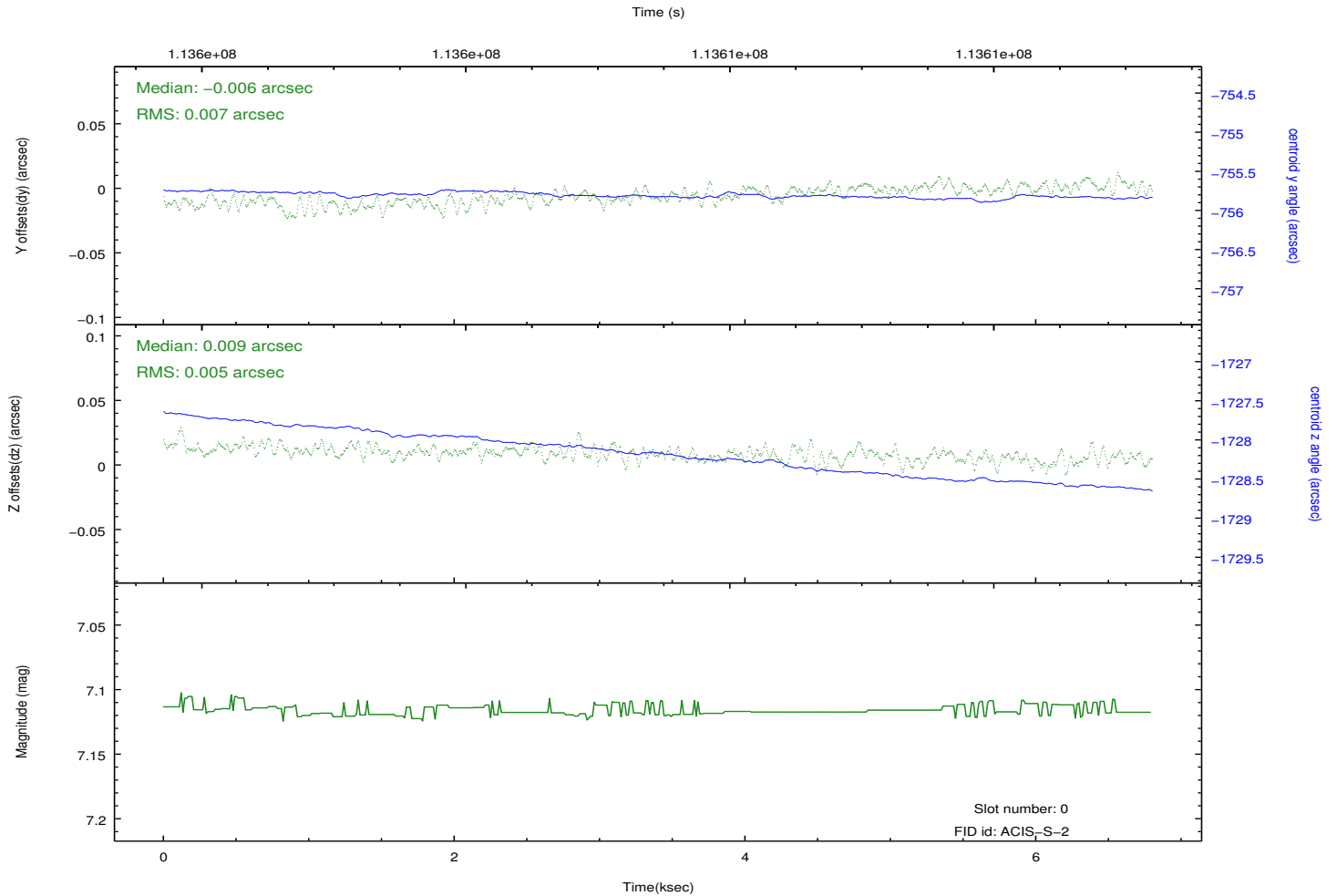
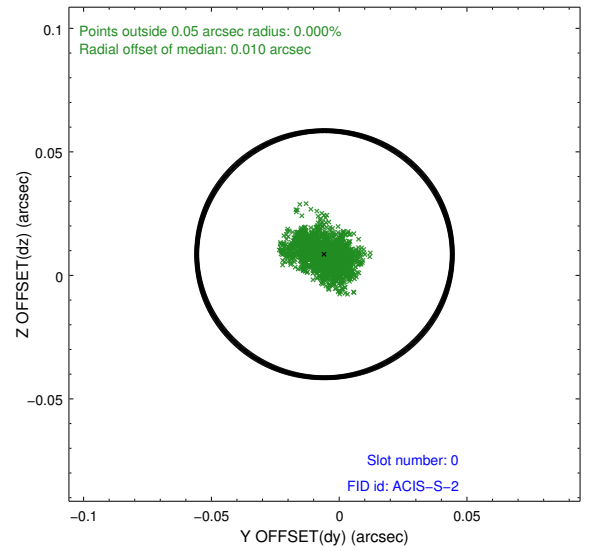
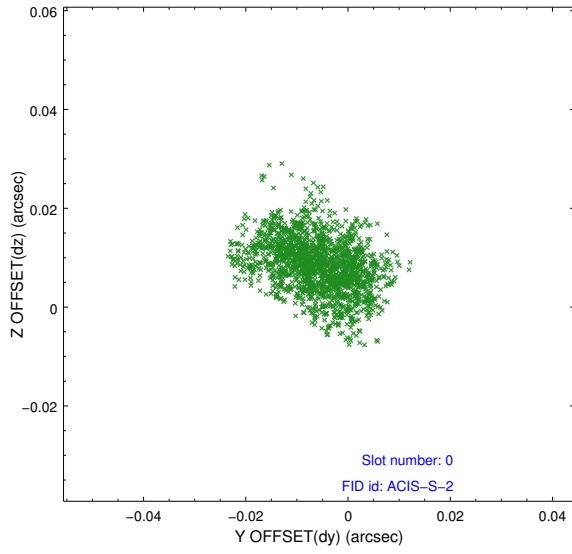


Time (s)

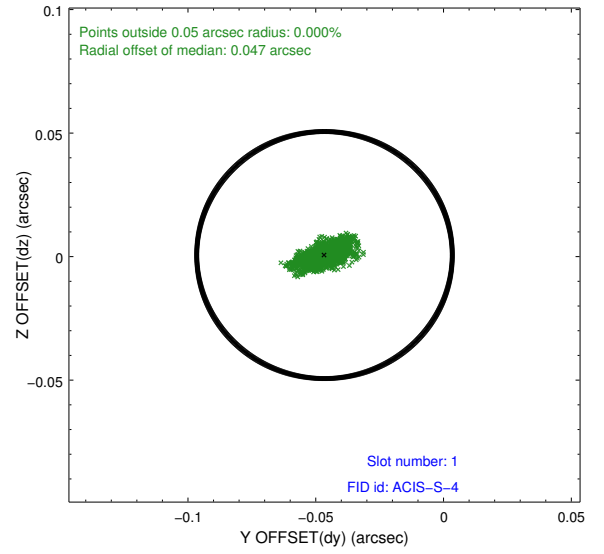
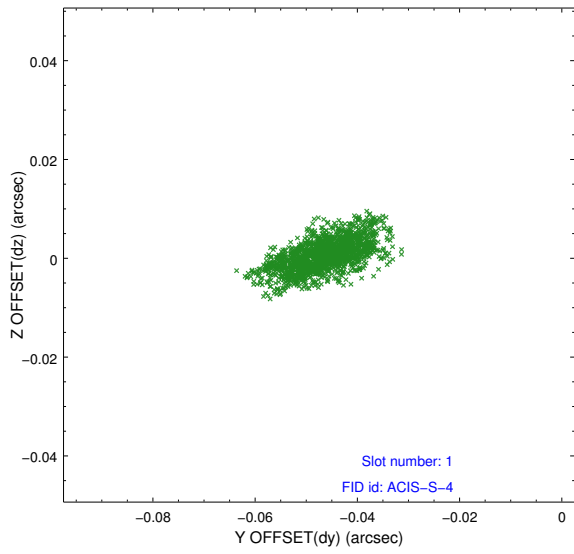


## 2.5 FID Slots

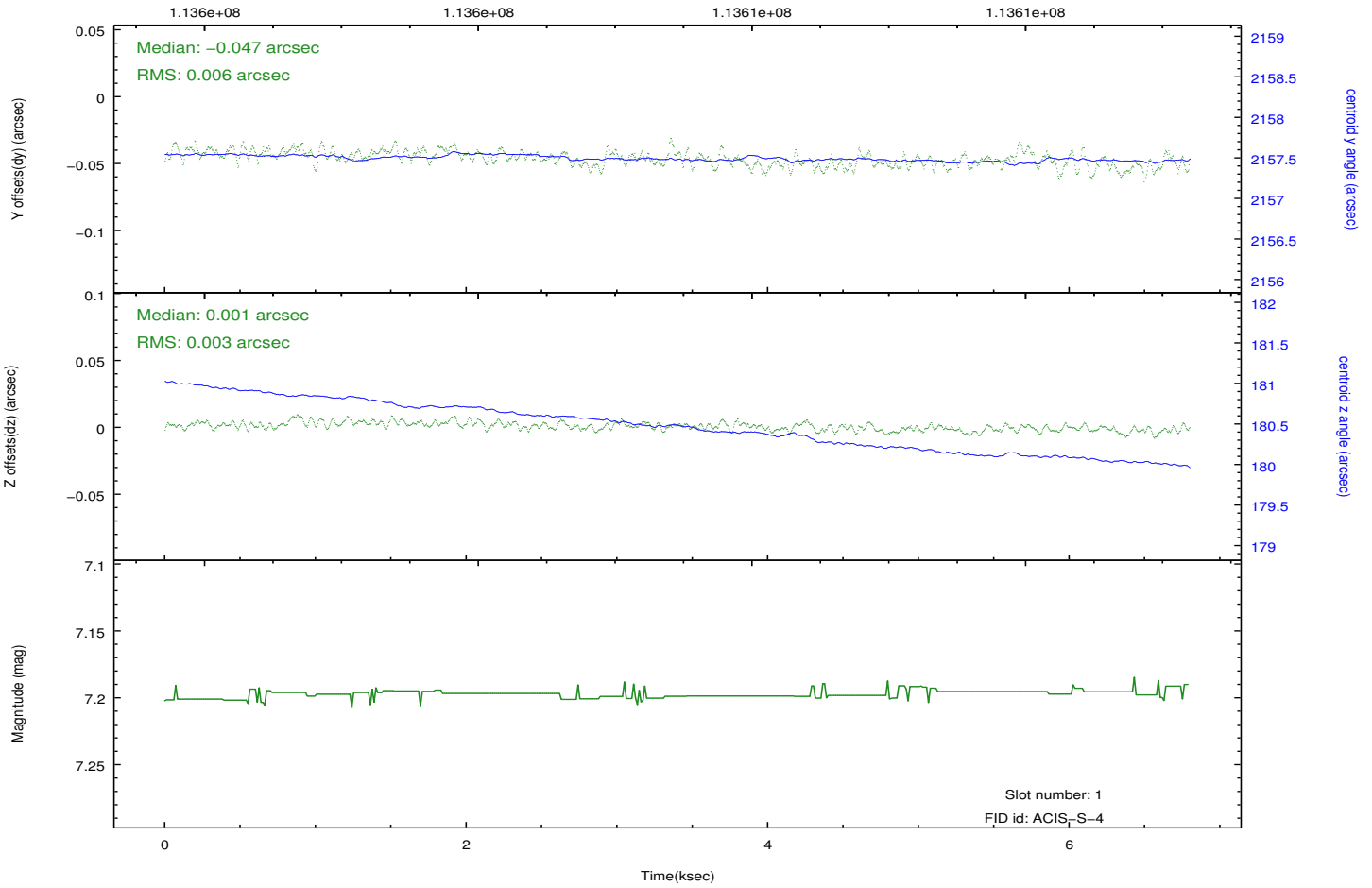
### 2.5.1 Slot 0



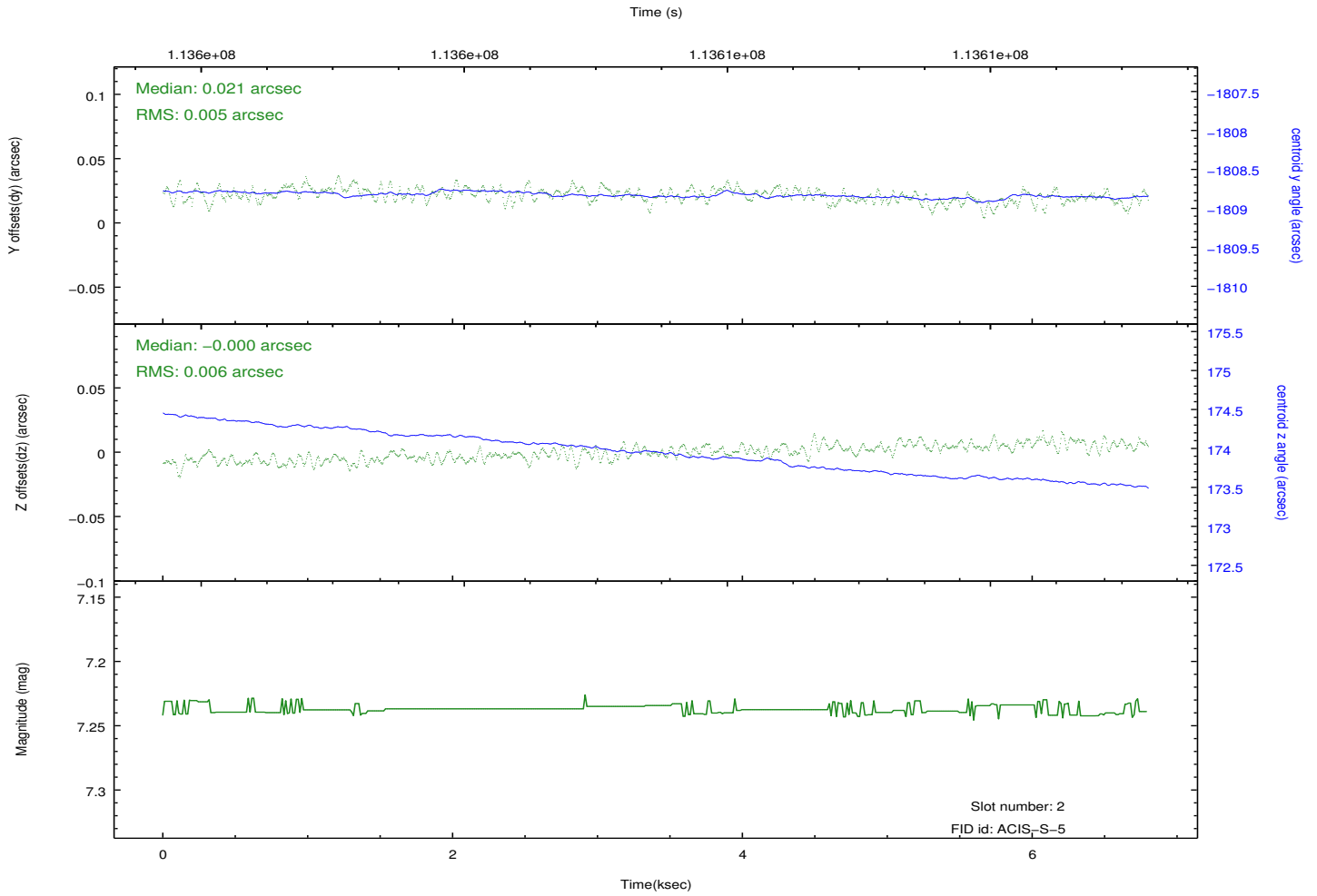
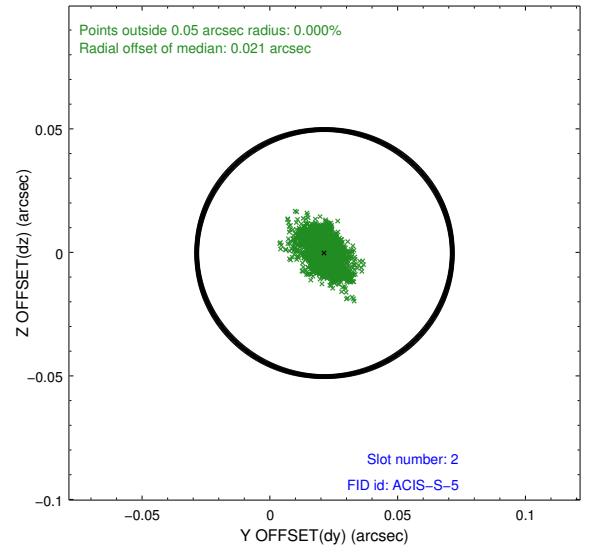
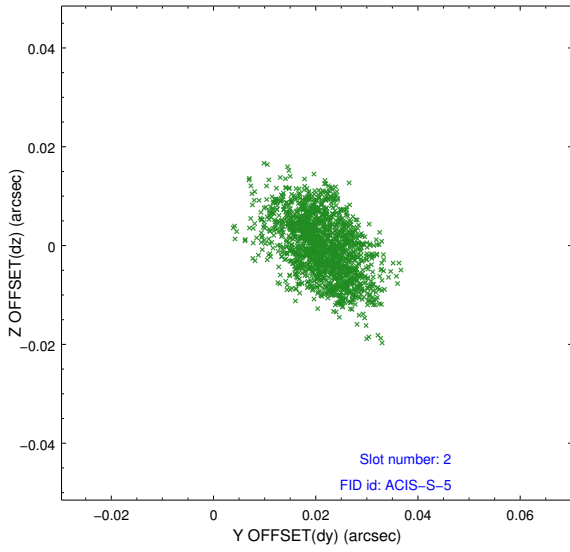
## 2.5.2 Slot 1



Time (s)



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.794

### A.2 Comments