

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8767 - L2 Version 2  
Chandra X-Ray Center

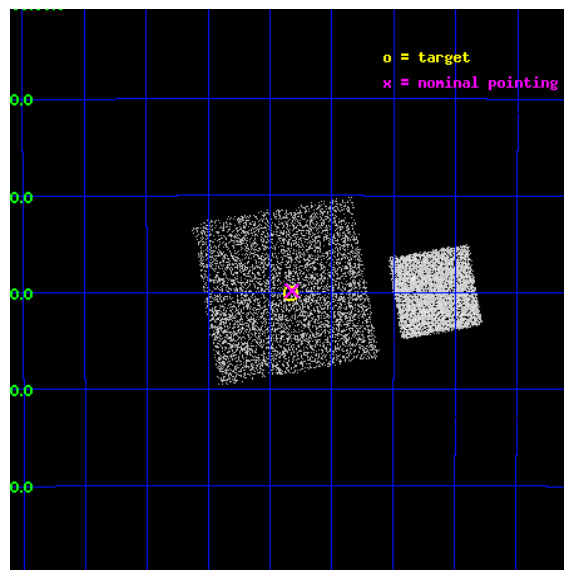
L2 Processing Date : May 14 2012

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# 1 Front

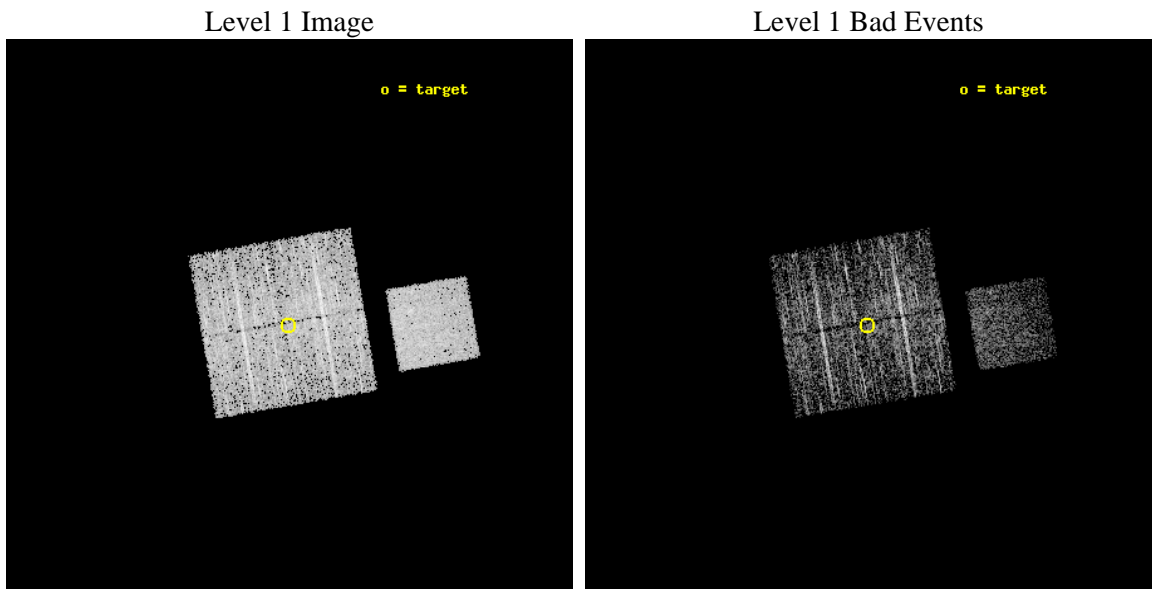
seq_num	400818	Sequence number
obs_id	8767	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.332878	Observer's specified target RA [deg]
dec_targ	-30.502202	Observer's specified target Dec [deg]
ra_nom	267.33086946853	Nominal RA [deg]
dec_nom	-30.497518942051	Nominal Dec [deg]
roll_nom	80.207683210954	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2182.4000167847	Sum of GTIs [s]
livetime	2153.8853539059	Livetime [s]
ontime0	2182.4000167847	Sum of GTIs [s]
ontime1	2182.4000167847	Sum of GTIs [s]
ontime2	2182.4000167847	Sum of GTIs [s]
ontime3	2182.4000167847	Sum of GTIs [s]
ontime7	2182.4000167847	Sum of GTIs [s]
l2events	15970	Number of level 2 events



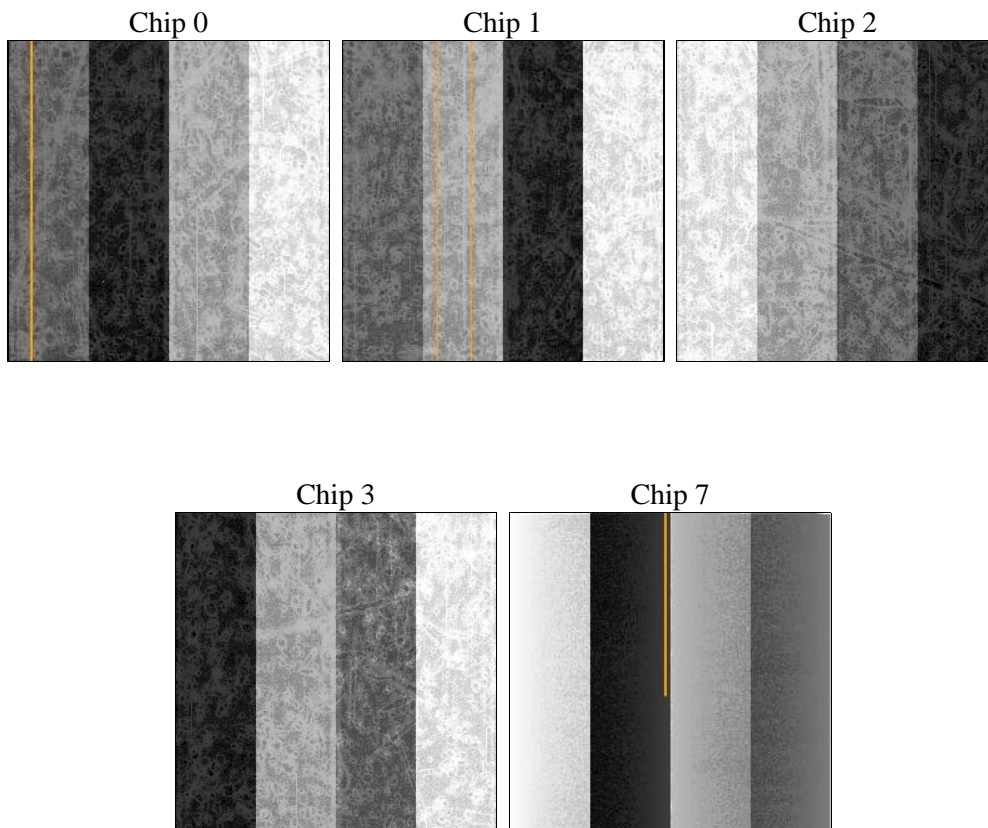
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2182.4000167847	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	2182.4000167847	Sum of GTIs [s]
date	2012-05-14T23:20:18	Date and time of file creation	ontime1	2182.4000167847	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2182.4000167847	Sum of GTIs [s]
			ontime3	2182.4000167847	Sum of GTIs [s]
			ontime7	2182.4000167847	Sum of GTIs [s]
			l1events	101887	Number of level 1 events

### 2.1.4 Events

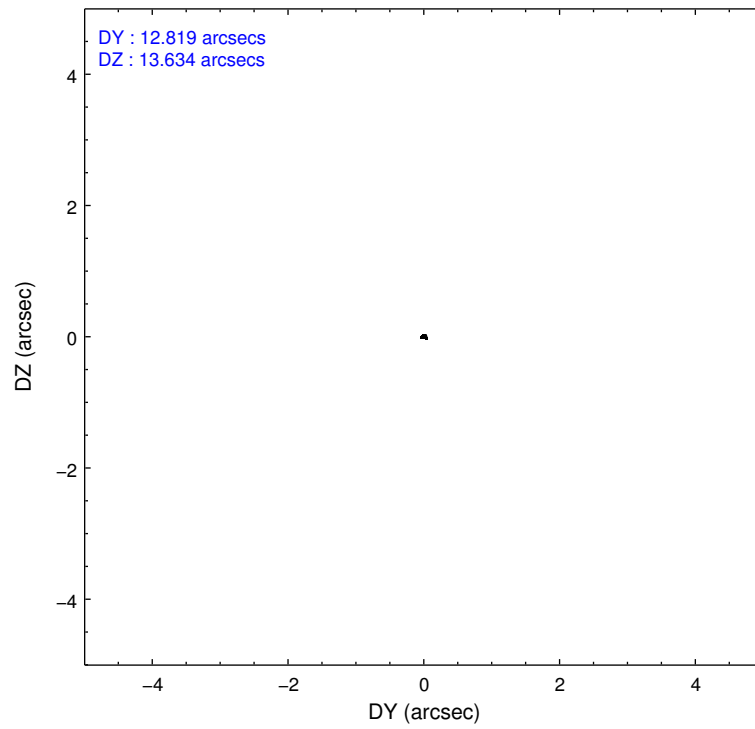
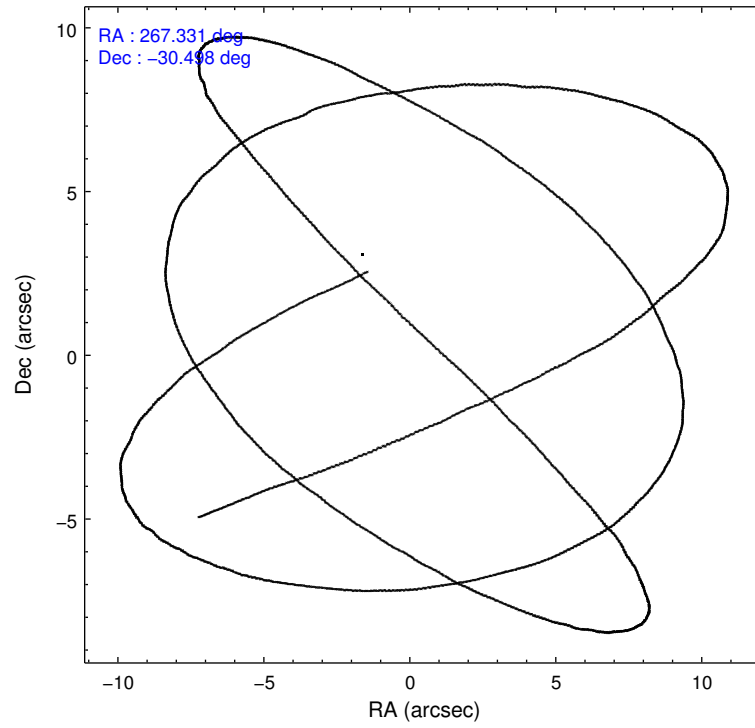
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18875	19328	20795	19962	22927
rejected events	16892	17038	18781	18052	13602
rejected %	89%	88%	90%	90%	59%

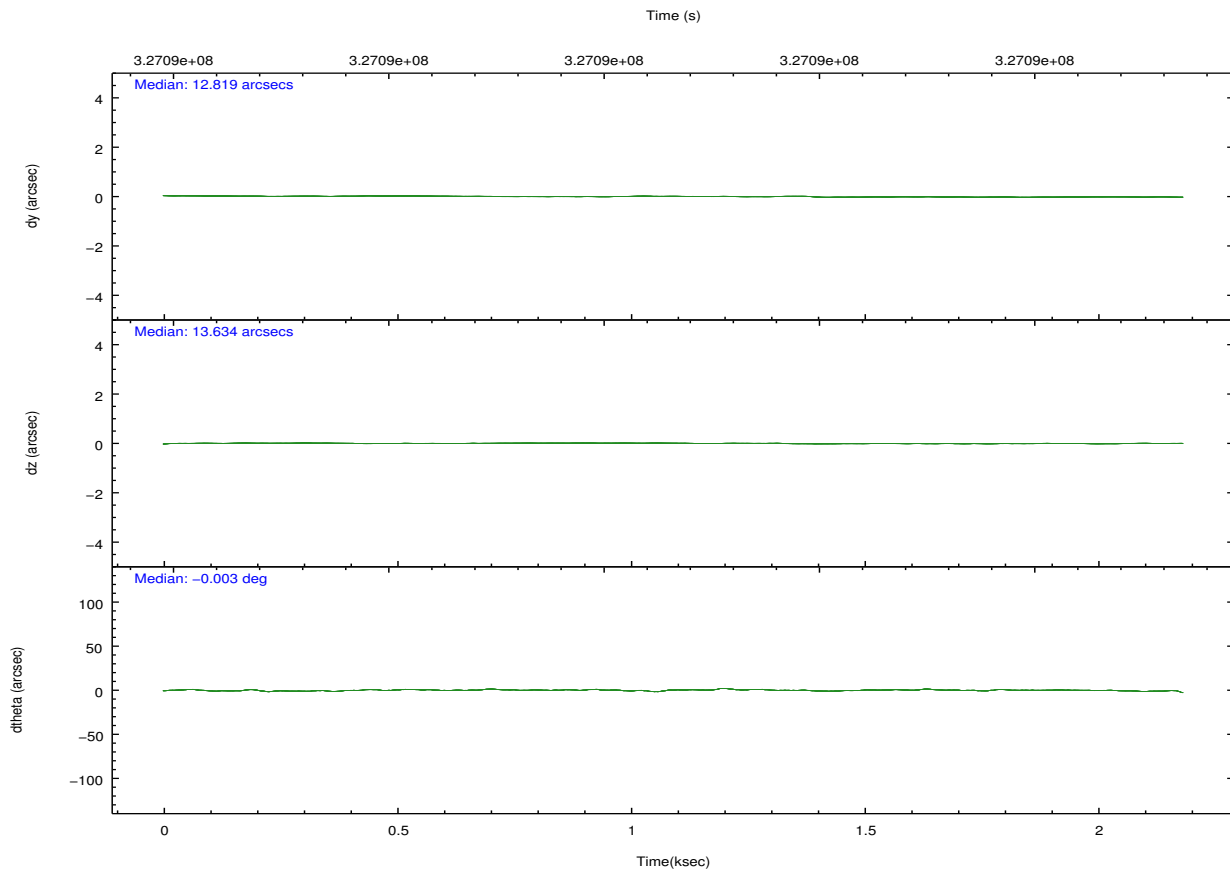
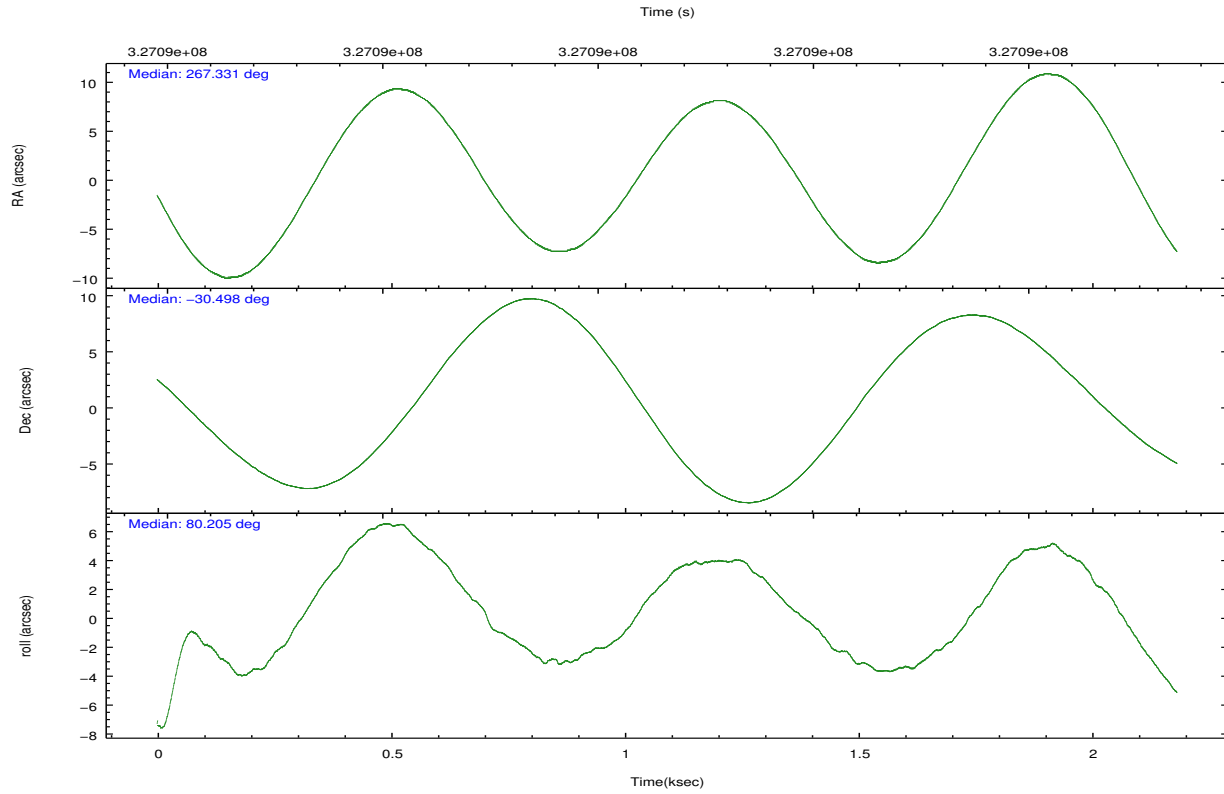
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	936	1165	981	935	1156
	4%	6%	4%	4%	5%
grade 1 events	14	9	10	11	25
	0%	0%	0%	0%	0%
grade 2 events	510	521	528	462	2177
	2%	2%	2%	2%	9%
grade 3 events	241	231	212	210	962
	1%	1%	1%	1%	4%
grade 4 events	218	264	222	227	944
	1%	1%	1%	1%	4%
grade 5 events	629	783	650	845	2400
	3%	4%	3%	4%	10%
grade 6 events	369	456	361	360	5530
	1%	2%	1%	1%	24%
grade 7 events	15958	15899	17831	16912	9733
	84%	82%	85%	84%	42%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	267.342121	267.3308694685255	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.523244	-30.49751894205108	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004695	80.20768321095358	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327091252.184000	327090875.43956	CCD S5 on	N	N
Observation start date	2008-05-13T18:39:47	2008-05-13T18:34:35	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327093252.184000	327093385.66468	On-chip summing requested	N	N
Observation end date	2008-05-13T19:13:07	2008-05-13T19:16:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



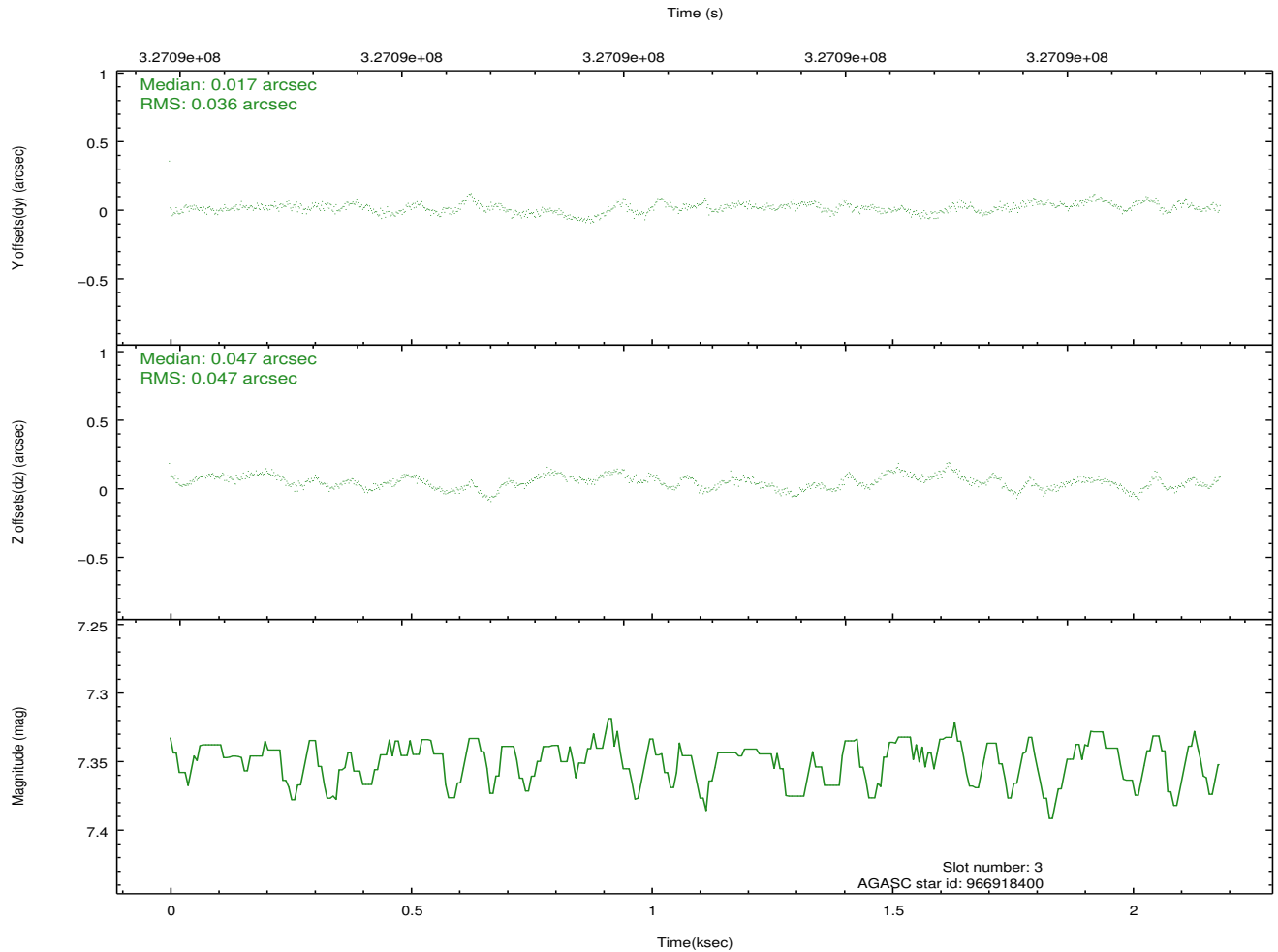
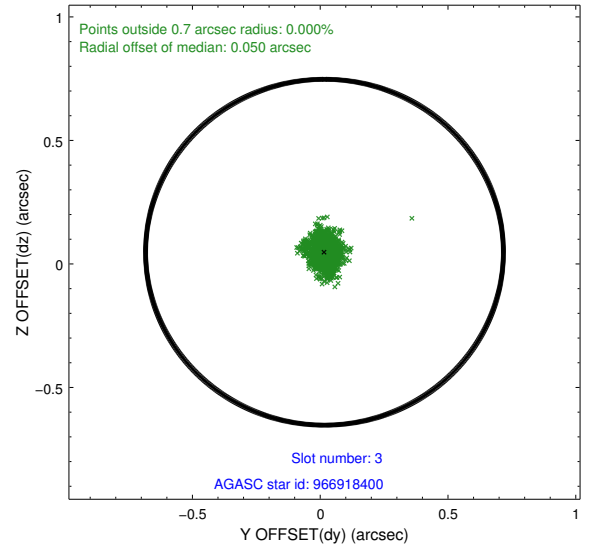
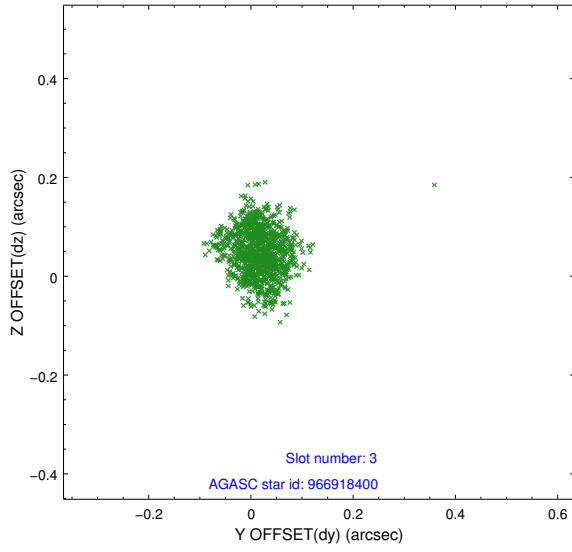


### Slot Statistics

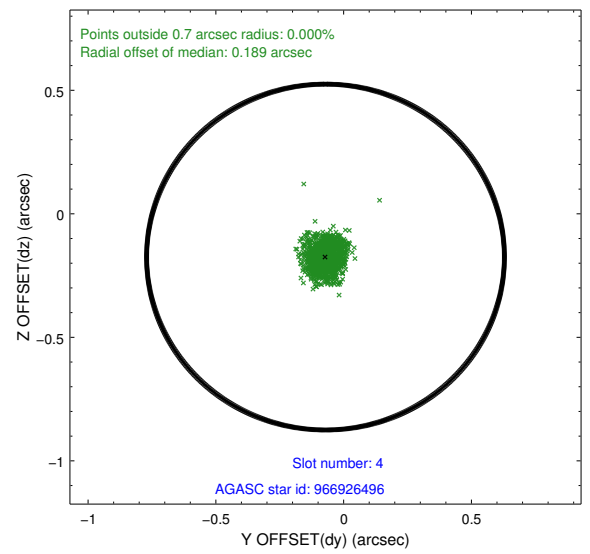
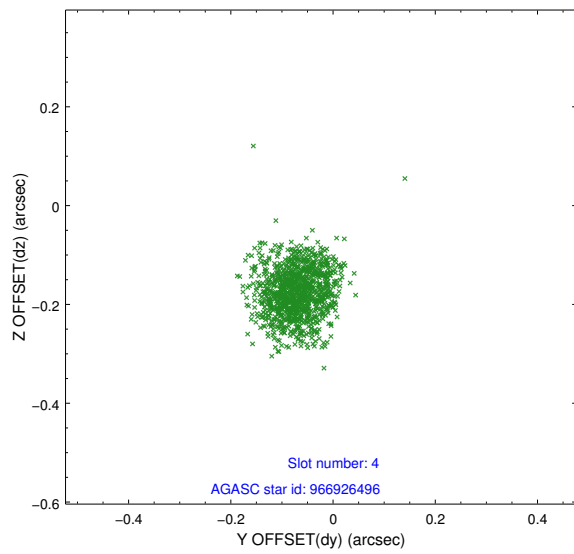
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	533	0.008	0.045	0.006	0.013	0.000000	0.000000	926.72	-837.14
1	FID	ACIS-I-5	7.03	533	-0.167	0.033	0.009	0.018	0.000000	0.000000	-1819.93	1058.81
2	FID	ACIS-I-6	7.05	533	0.070	-0.008	0.009	0.014	0.000000	0.000000	389.05	1706.68
3	GUIDE	966918400	7.35	1066	0.017	0.047	0.064	0.099	267.537101	-30.960086	-1444.26	-866.08
4	GUIDE	966926496	8.10	1066	-0.071	-0.175	0.066	0.104	267.109389	-30.299474	665.95	851.24
5	GUIDE	896543792	9.86	1053	-0.051	-0.152	0.159	0.258	267.148052	-29.957989	1899.55	949.69
6	GUIDE	967059168	8.42	1065	0.094	0.094	0.068	0.107	267.755631	-31.226839	-2273.47	-1693.10
7	GUIDE	967053960	9.25	1065	0.022	0.190	0.116	0.184	268.185736	-30.091336	1976.27	-2321.25

## 2.4 Star Slots

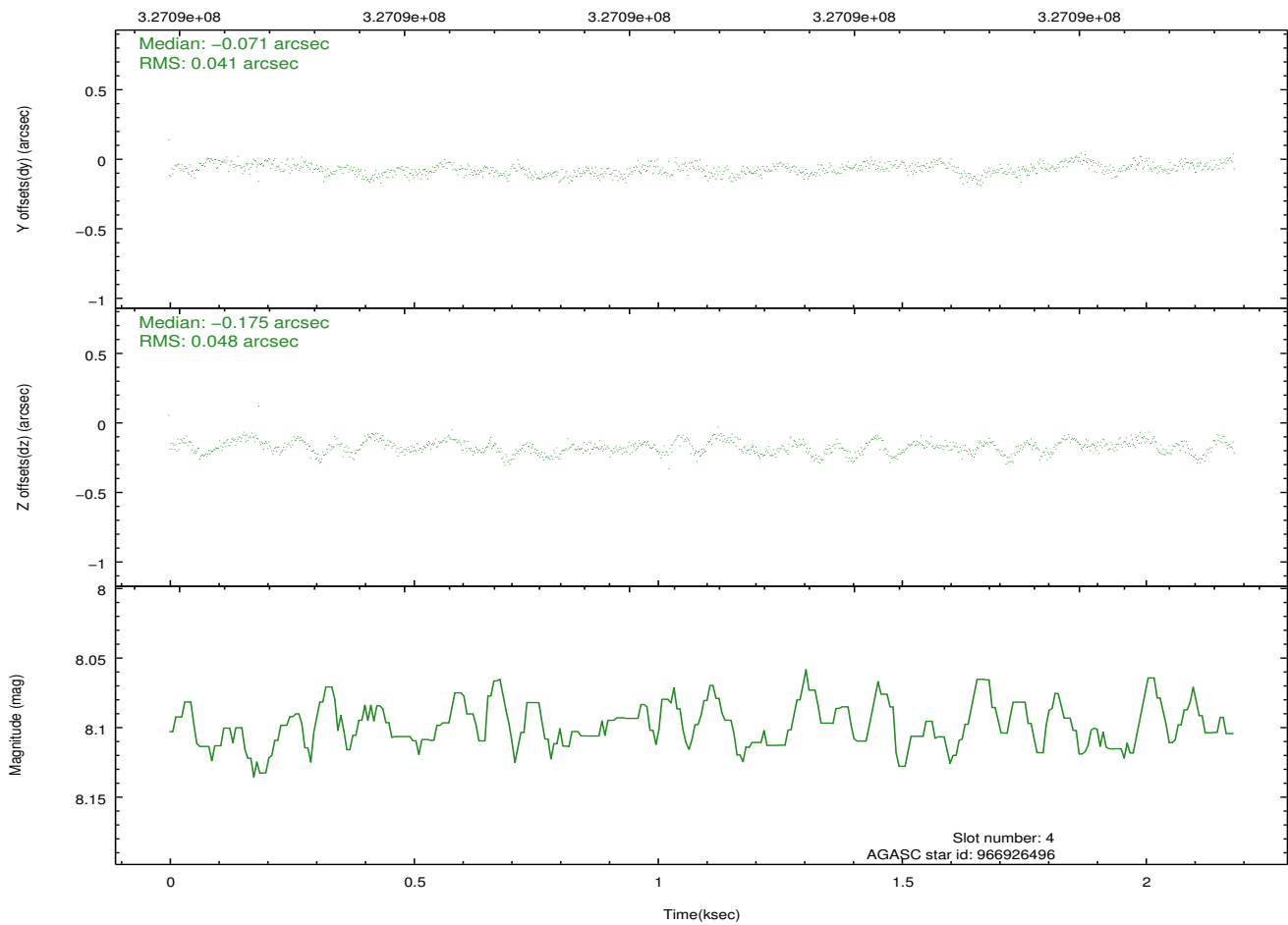
### 2.4.1 Slot 3



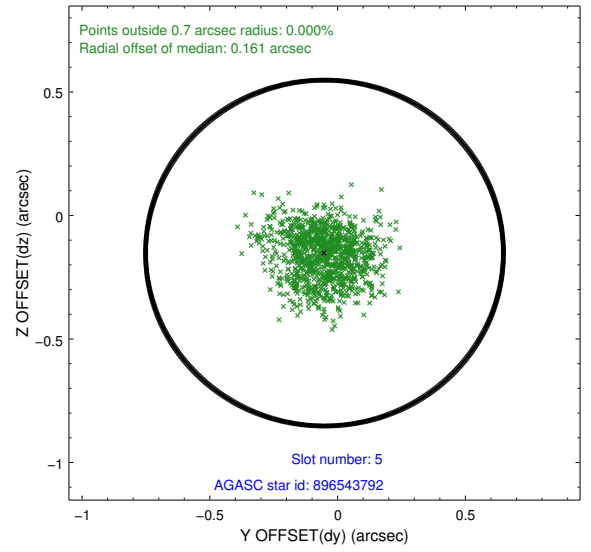
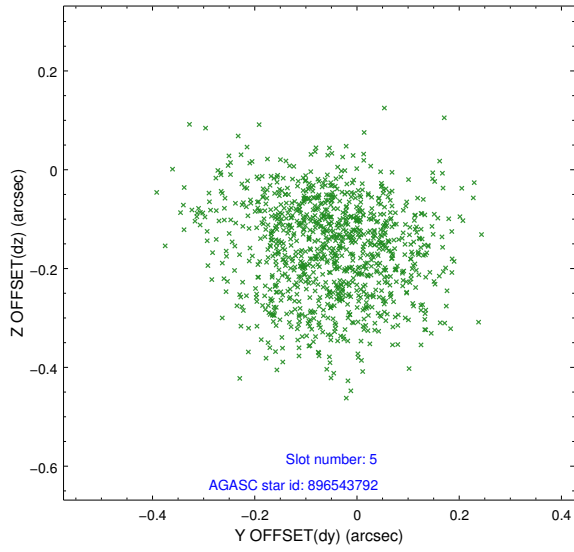
## 2.4.2 Slot 4



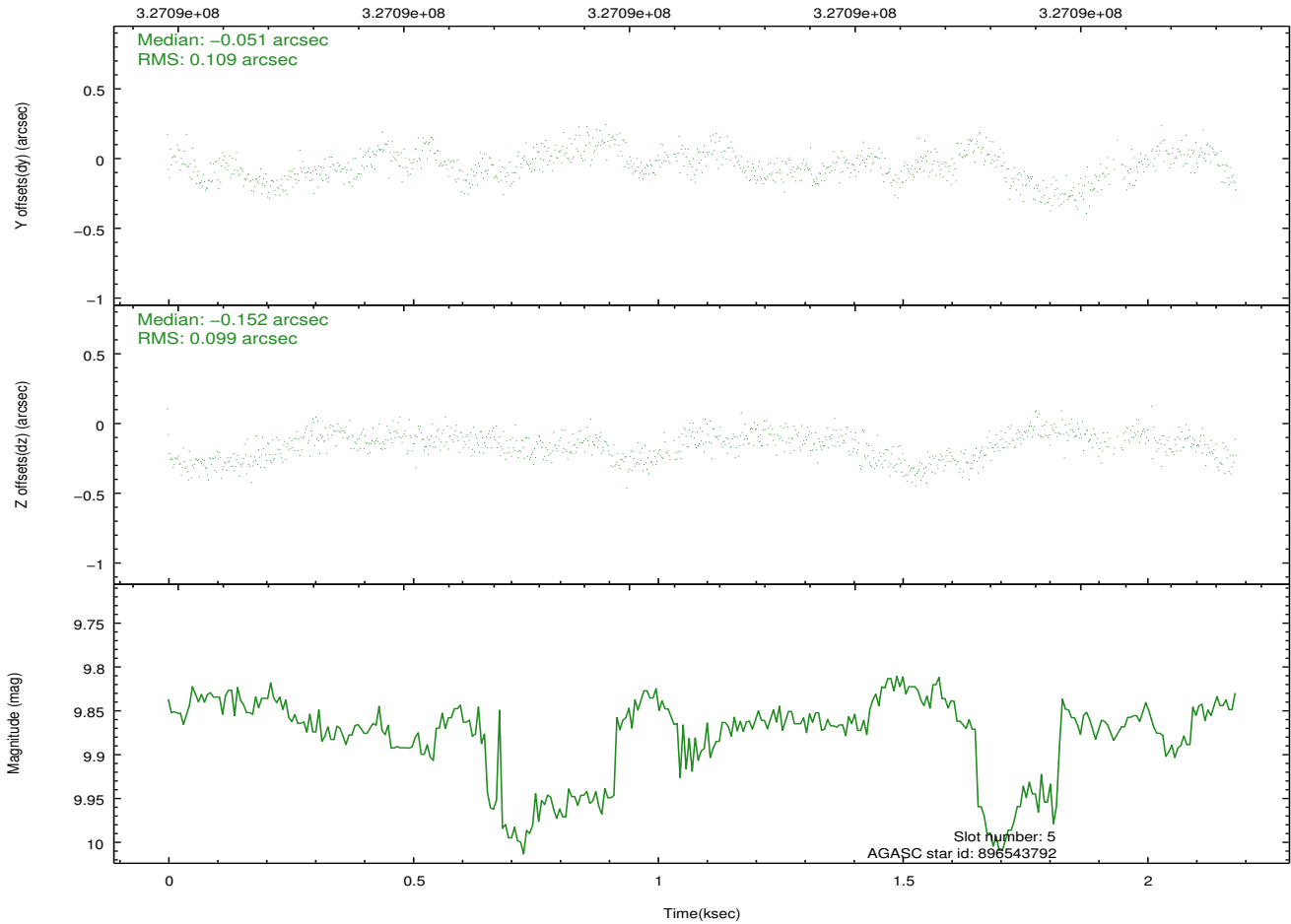
Time (s)



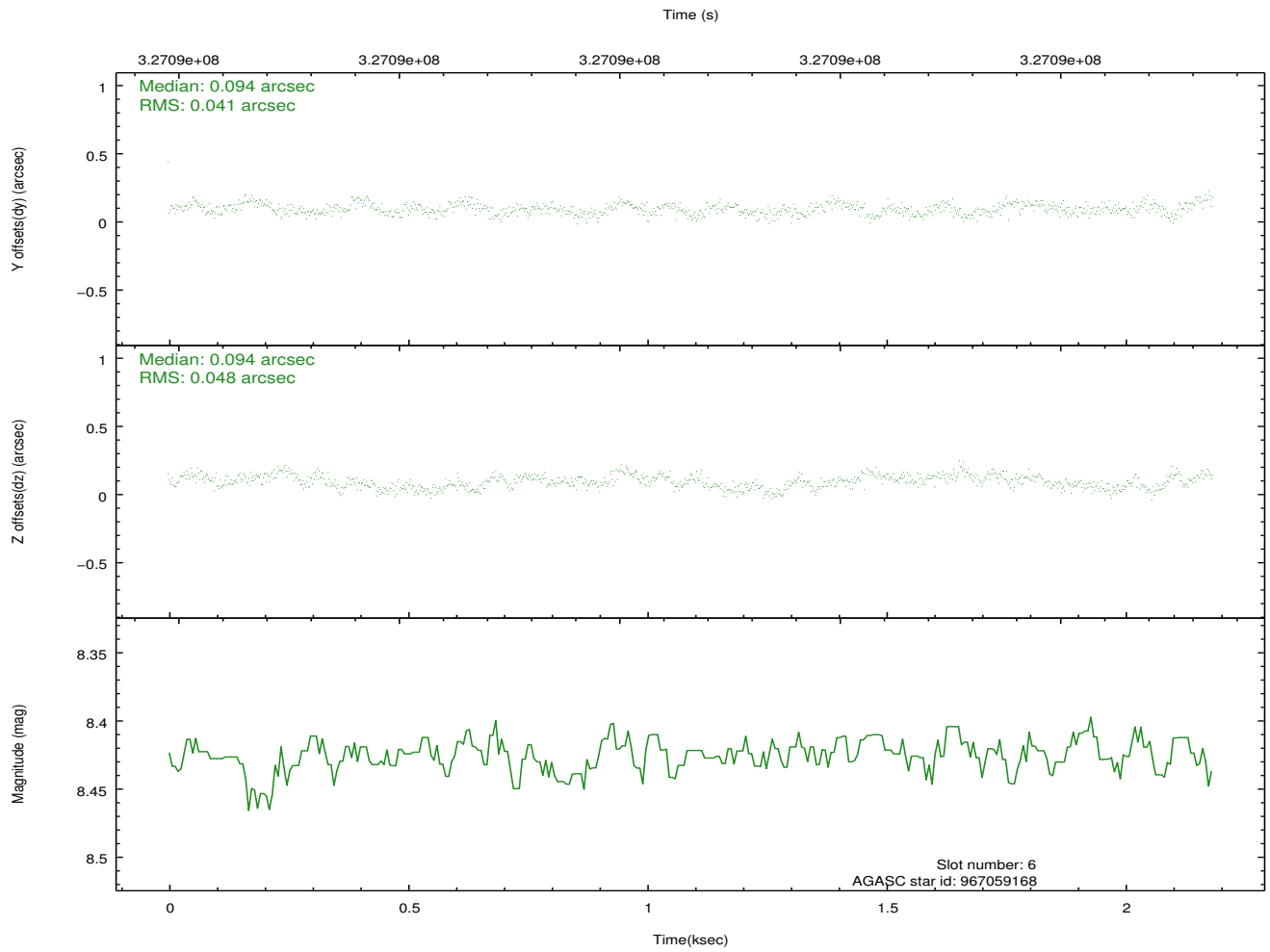
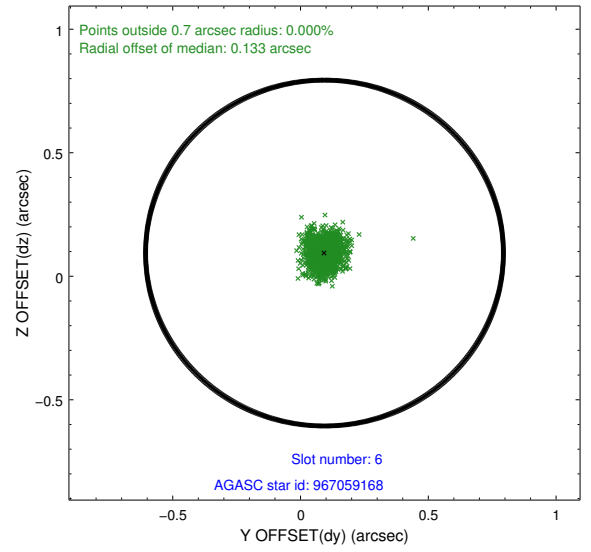
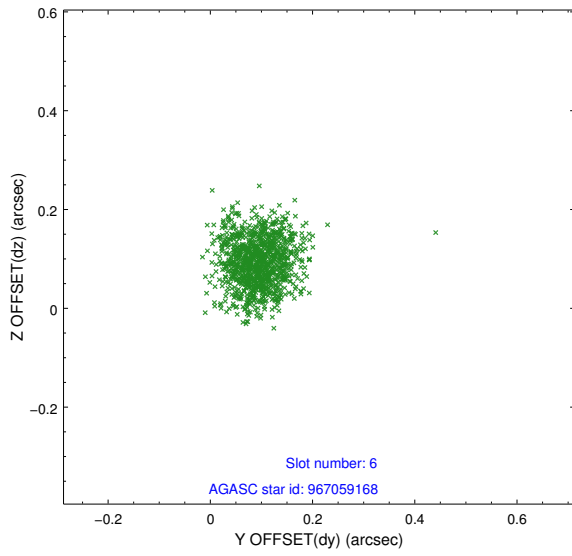
### 2.4.3 Slot 5



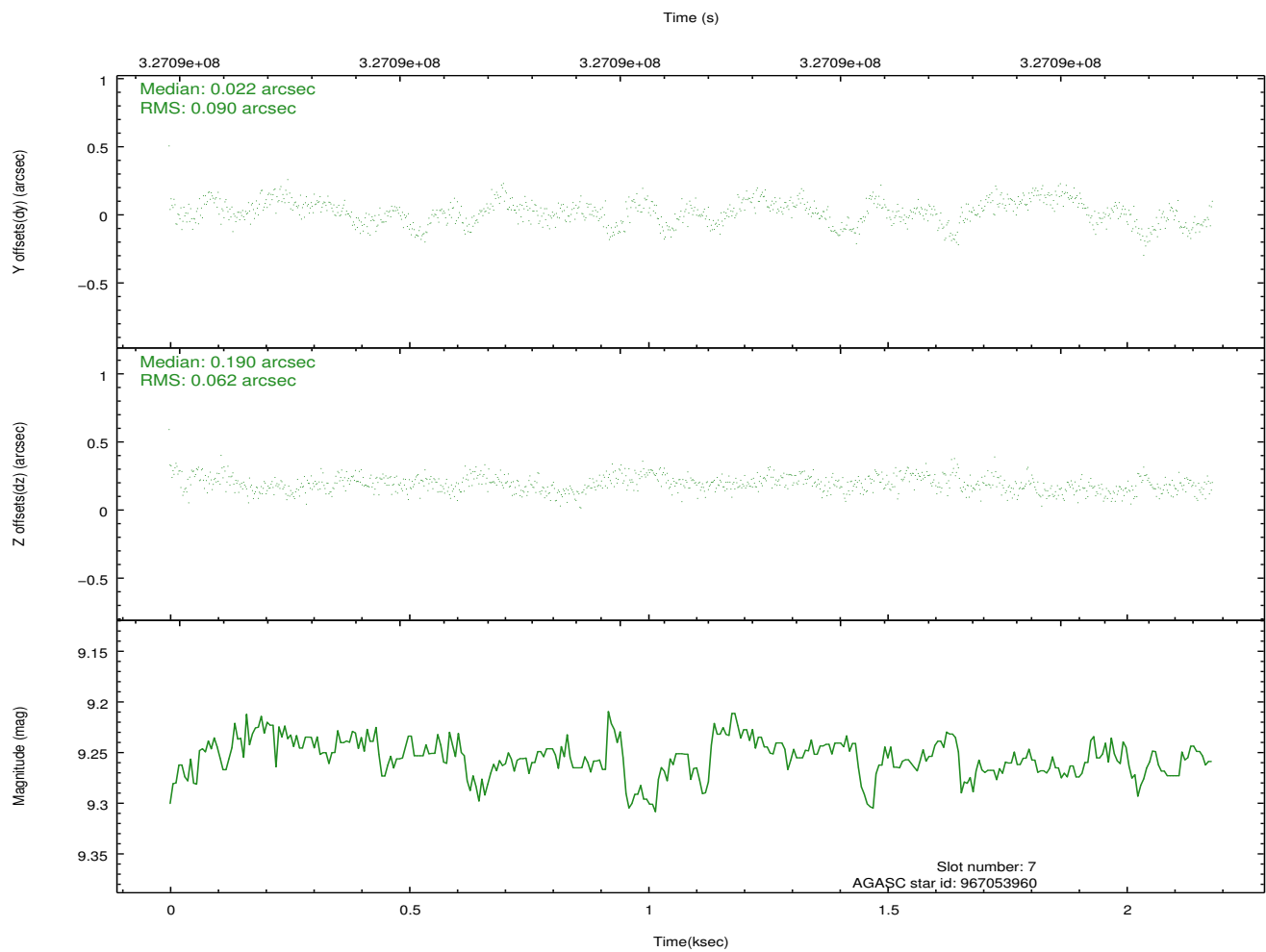
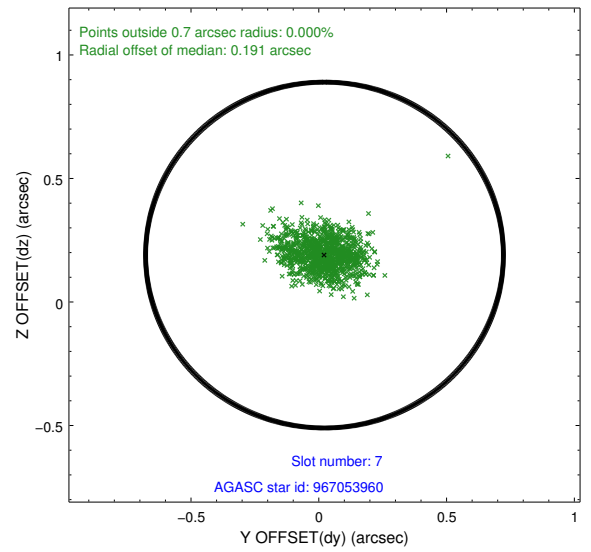
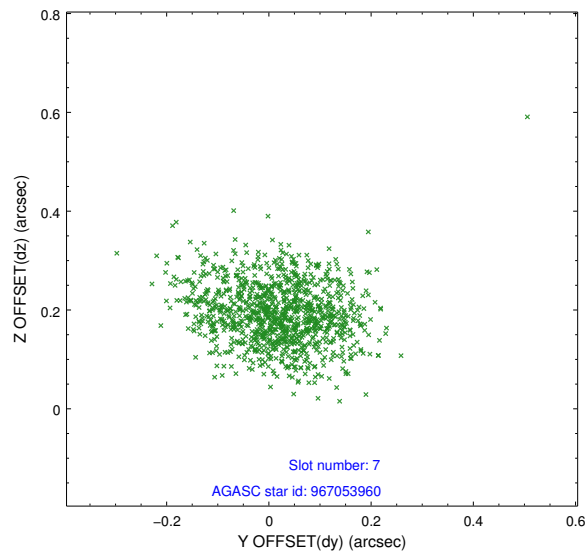
Time (s)



### 2.4.4 Slot 6

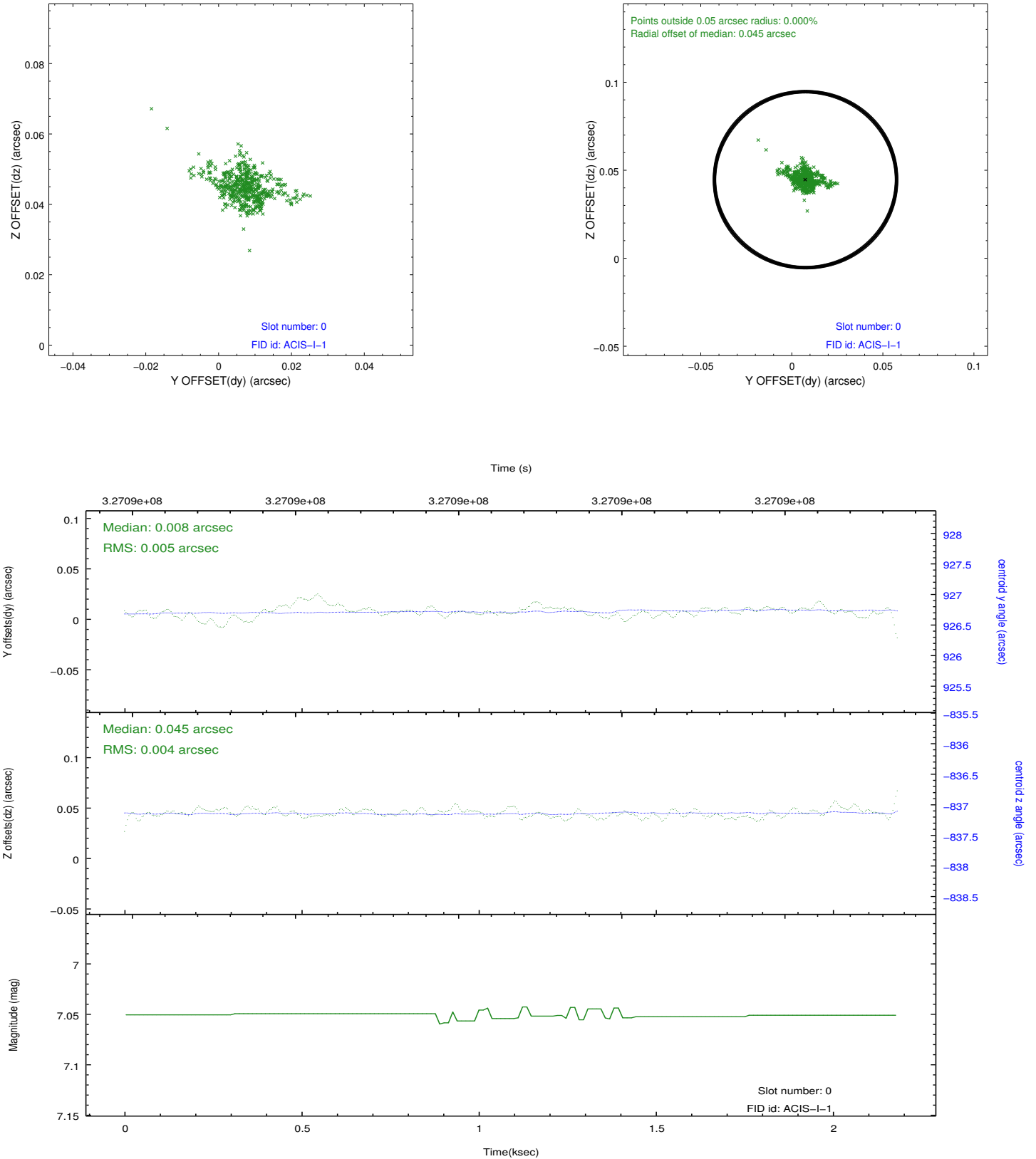


## 2.4.5 Slot 7

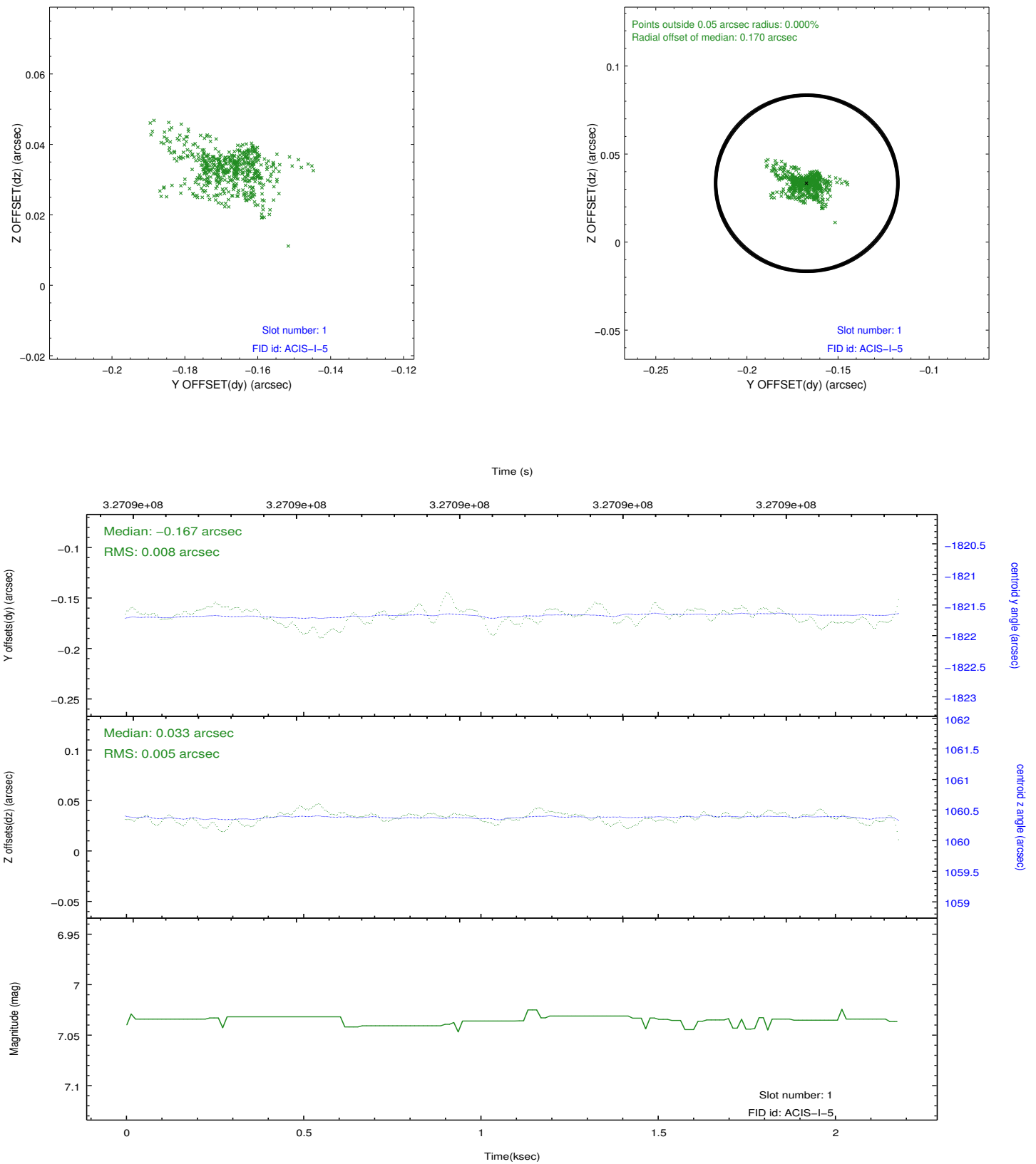


## 2.5 FID Slots

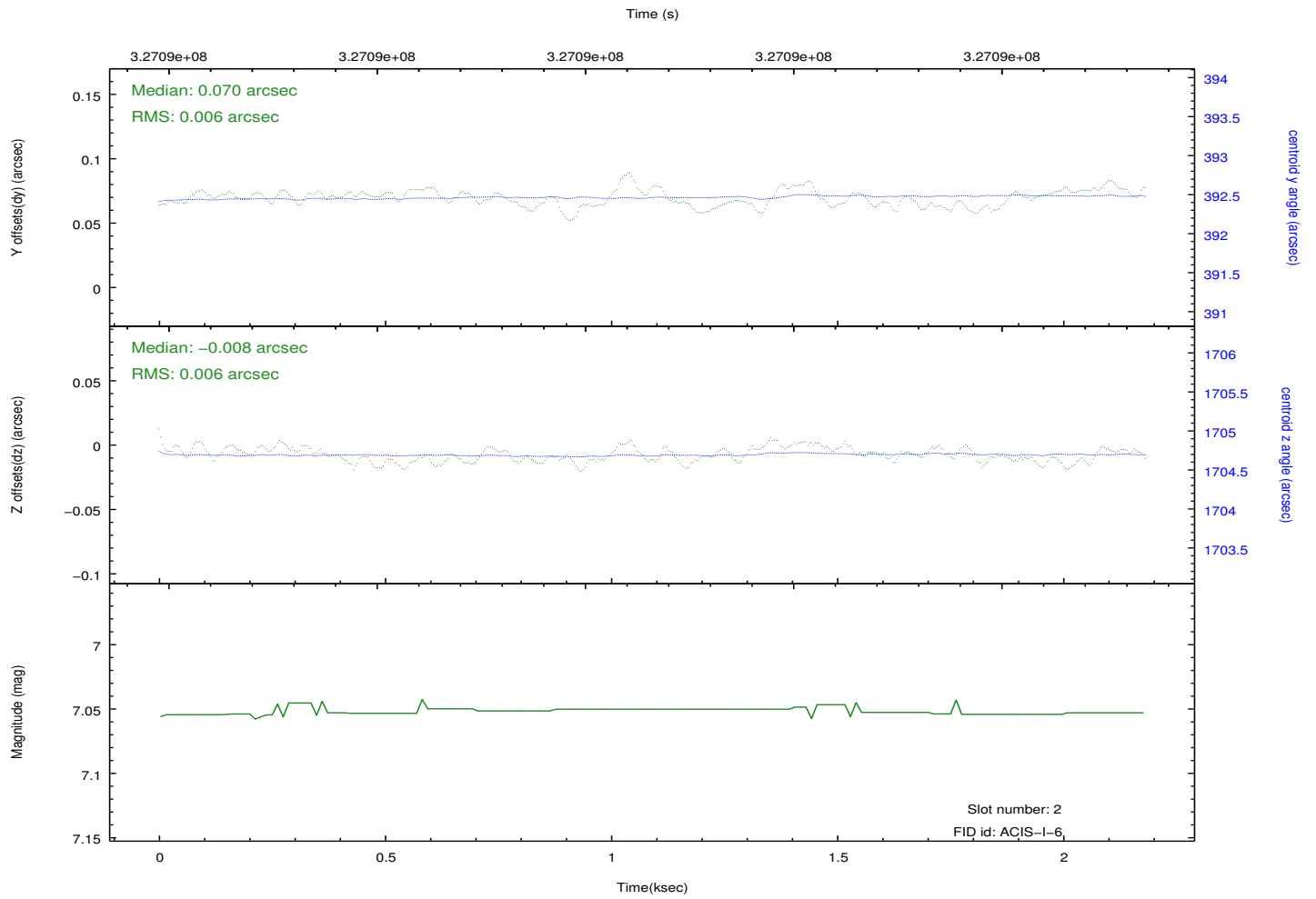
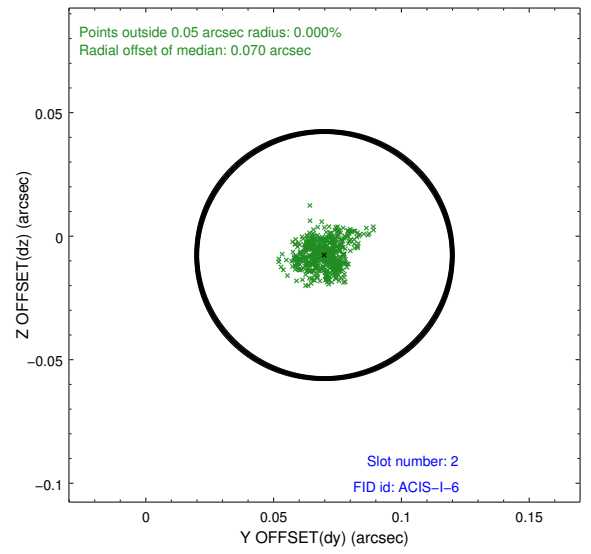
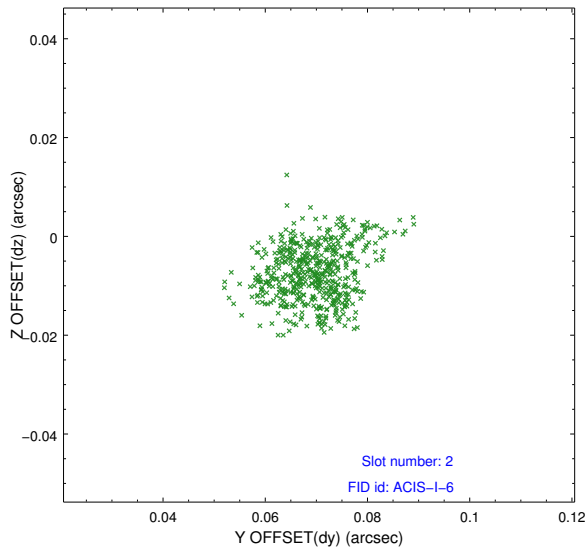
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18240001

## A.2 Comments

Joint Proposal: NOAO