

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9797 - L2 Version 2  
Chandra X-Ray Center

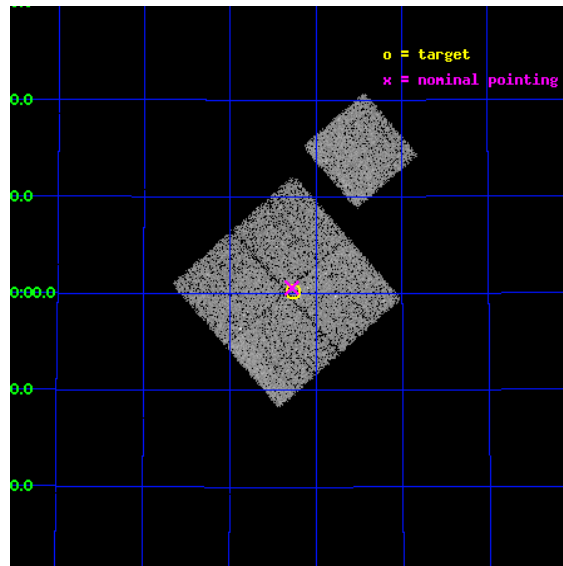
L2 Processing Date : May 6 2012

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# 1 Front

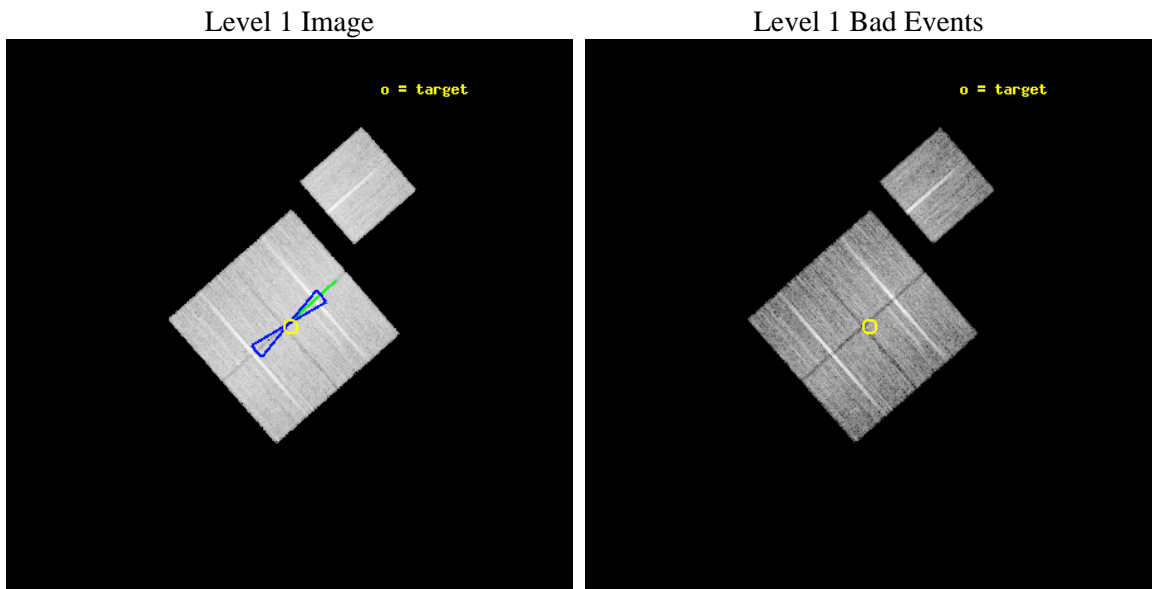
seq_num	900796	Sequence number
obs_id	9797	Observation id
title	The Evolution of Faint AGN at High Redshift	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	AEGIS-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.064583	Observer's specified target RA [deg]
dec_targ	53.002694	Observer's specified target Dec [deg]
ra_nom	215.07007072368	Nominal RA [deg]
dec_nom	53.010106162475	Nominal Dec [deg]
roll_nom	48.704327336142	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12765.759107947	Sum of GTIs [s]
livetime	12598.965067187	Livetime [s]
ontime0	12768.900098205	Sum of GTIs [s]
ontime1	12768.900098205	Sum of GTIs [s]
ontime2	12765.759137869	Sum of GTIs [s]
ontime3	12765.759107947	Sum of GTIs [s]
ontime6	12768.900098205	Sum of GTIs [s]
l2events	45916	Number of level 2 events



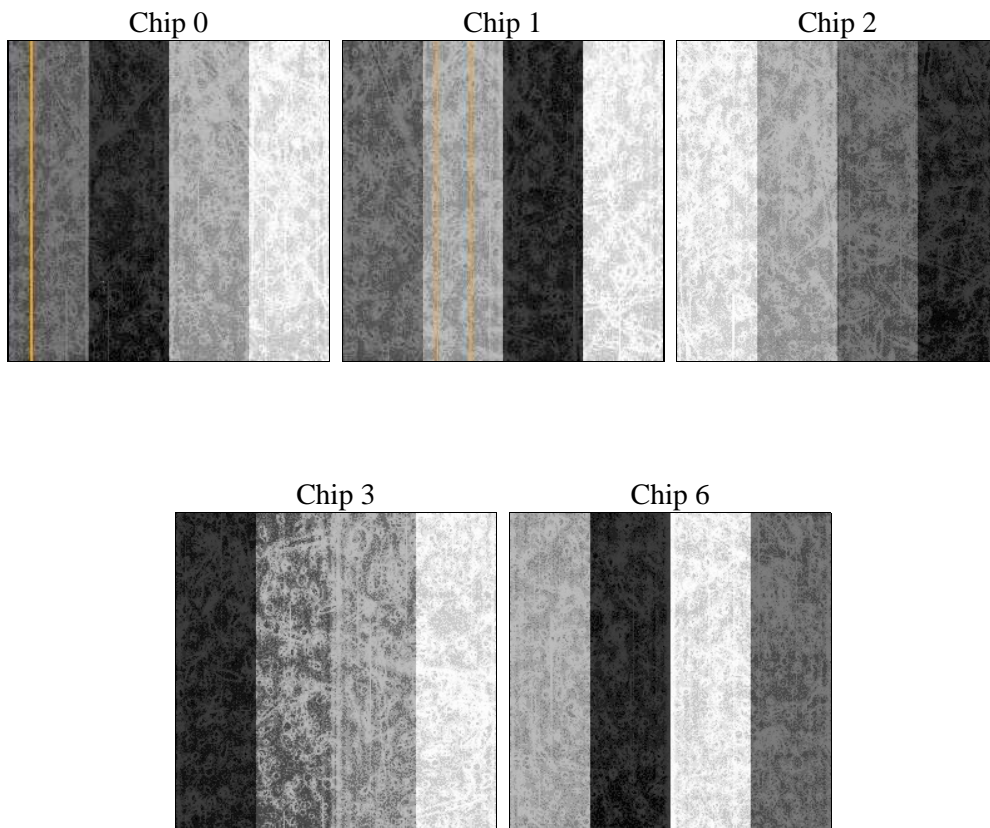
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	12624.179000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	12765.759107947	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	12768.900098205	Sum of GTIs [s]
date	2012-05-06T14:24:03	Date and time of file creation	ontime1	12768.900098205	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	12765.759137869	Sum of GTIs [s]
			ontime3	12765.759107947	Sum of GTIs [s]
			ontime6	12768.900098205	Sum of GTIs [s]
			l1events	512886	Number of level 1 events

### 2.1.4 Events

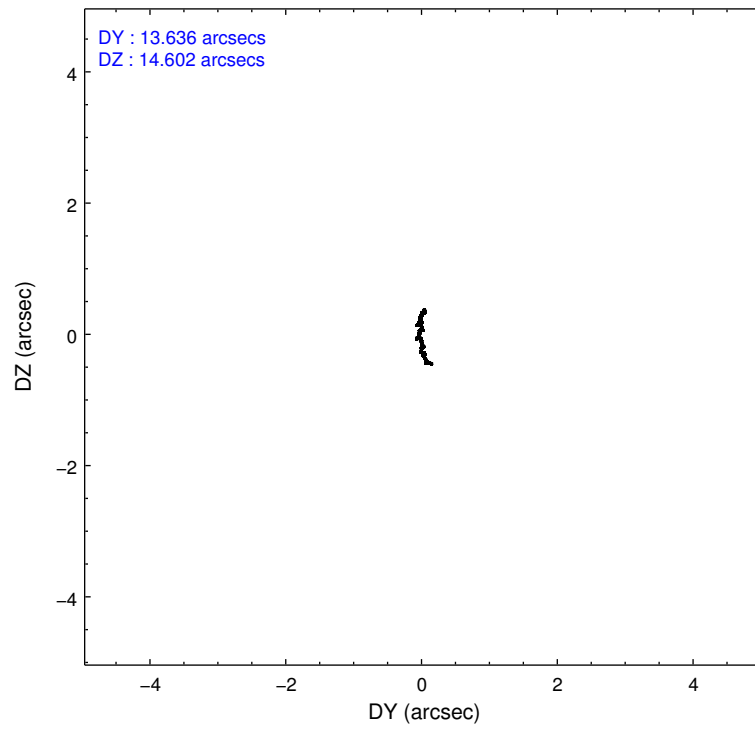
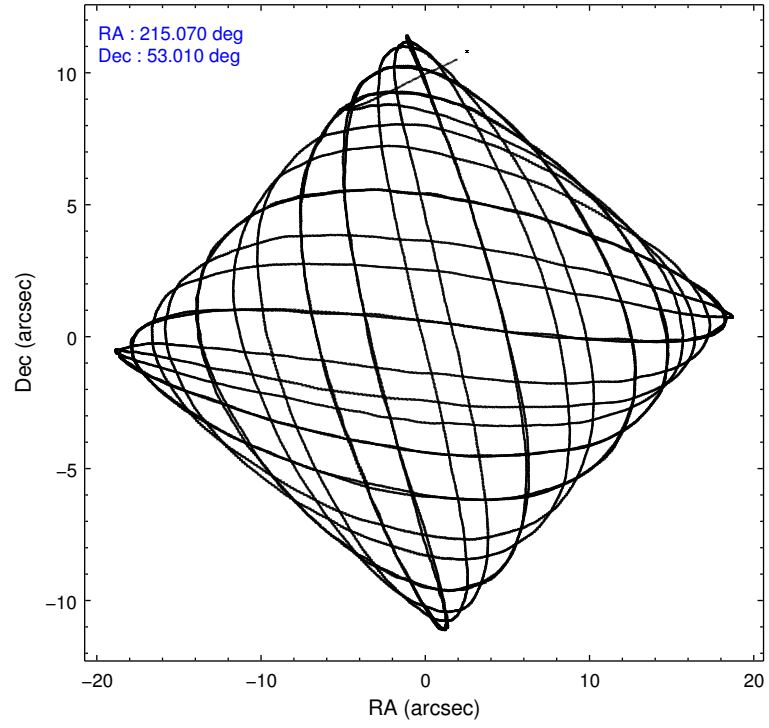
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	98532	96388	110103	103289	104574
rejected events	87532	84287	99904	93035	93419
rejected %	88%	87%	90%	90%	89%

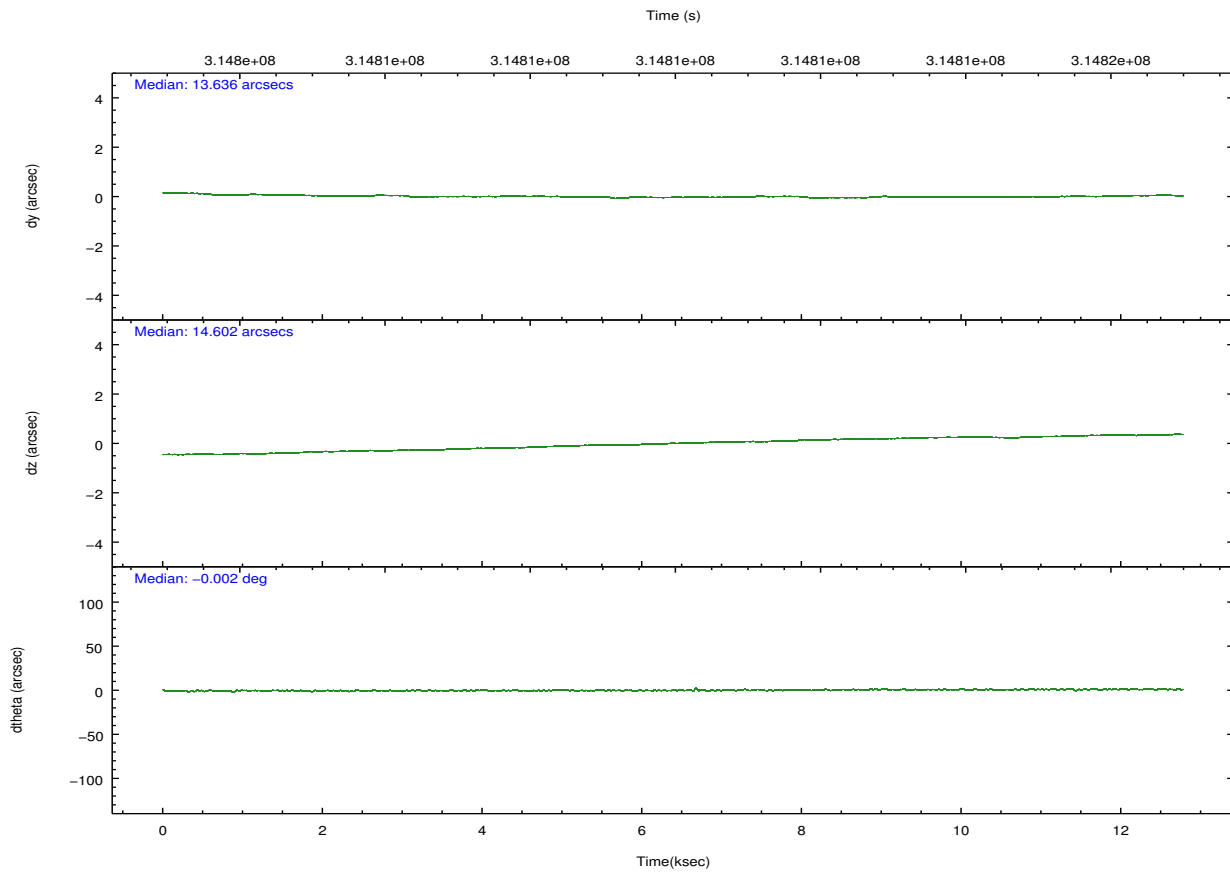
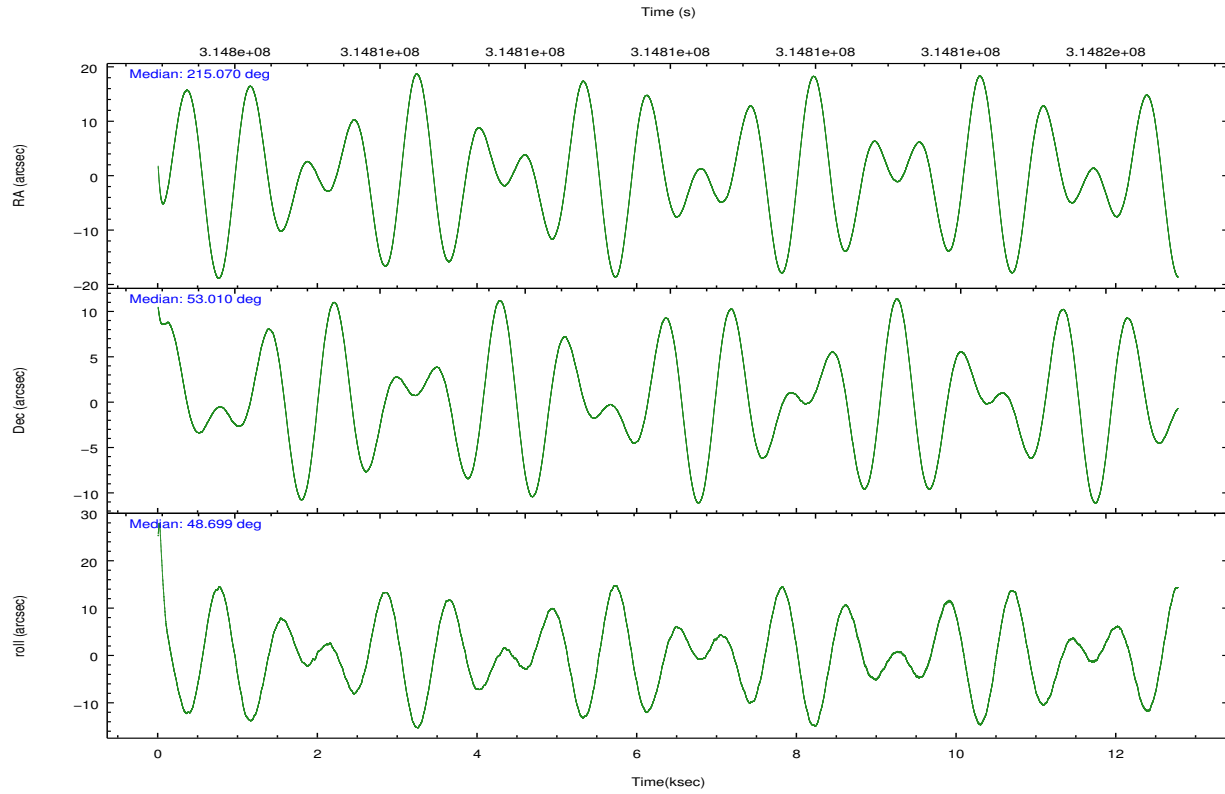
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4048	4380	3857	3854	3972
	4%	4%	3%	3%	3%
grade 1 events	45	43	64	59	52
	0%	0%	0%	0%	0%
grade 2 events	2536	2747	2293	2168	2339
	2%	2%	2%	2%	2%
grade 3 events	1258	1249	1111	1157	1200
	1%	1%	1%	1%	1%
grade 4 events	1115	1274	1099	1127	1183
	1%	1%	0%	1%	1%
grade 5 events	3530	3862	3295	4102	4100
	3%	4%	2%	3%	3%
grade 6 events	2067	2477	1859	1966	2479
	2%	2%	1%	1%	2%
grade 7 events	83933	80356	96525	88856	89249
	85%	83%	87%	86%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	215.061283	215.0700707236755	CCD I2 on	Y	Y
[deg] Pointing Dec	52.983099	53.01010616247532	CCD I3 on	Y	Y
[deg] Pointing Roll	48.502636	48.7043273361418	CCD S0 on	N	N
[deg] Roll angle	50.000000	50.000000	CCD S1 on	N	N
[deg] Roll tolerance	10.000000	10.000000	CCD S2 on	O1	Y
Roll constraint allows 180D rotation	Y	Y	CCD S3 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S4 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S5 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	Number of optional ACIS chips dropped	0	0
[mm] SIM translation stage offset	0	-0.005018542100998502	On-chip summing requested	N	N
[s] Observation start time (MET)	314803738.184000	314802748.44256	Subarray requested	NONE	NONE
Observation start date	2007-12-23T13:27:53	2007-12-23T13:12:28	Alternating exposures requested	N	N
[s] Observation end time (MET)	314816362.184000	314816597.21823	[s] Primary exposure time	0.000000	3.1
Observation end date	2007-12-23T16:58:17	2007-12-23T17:03:17			
Read mode	TIMED	TIMED			

## 2.3 Aspect



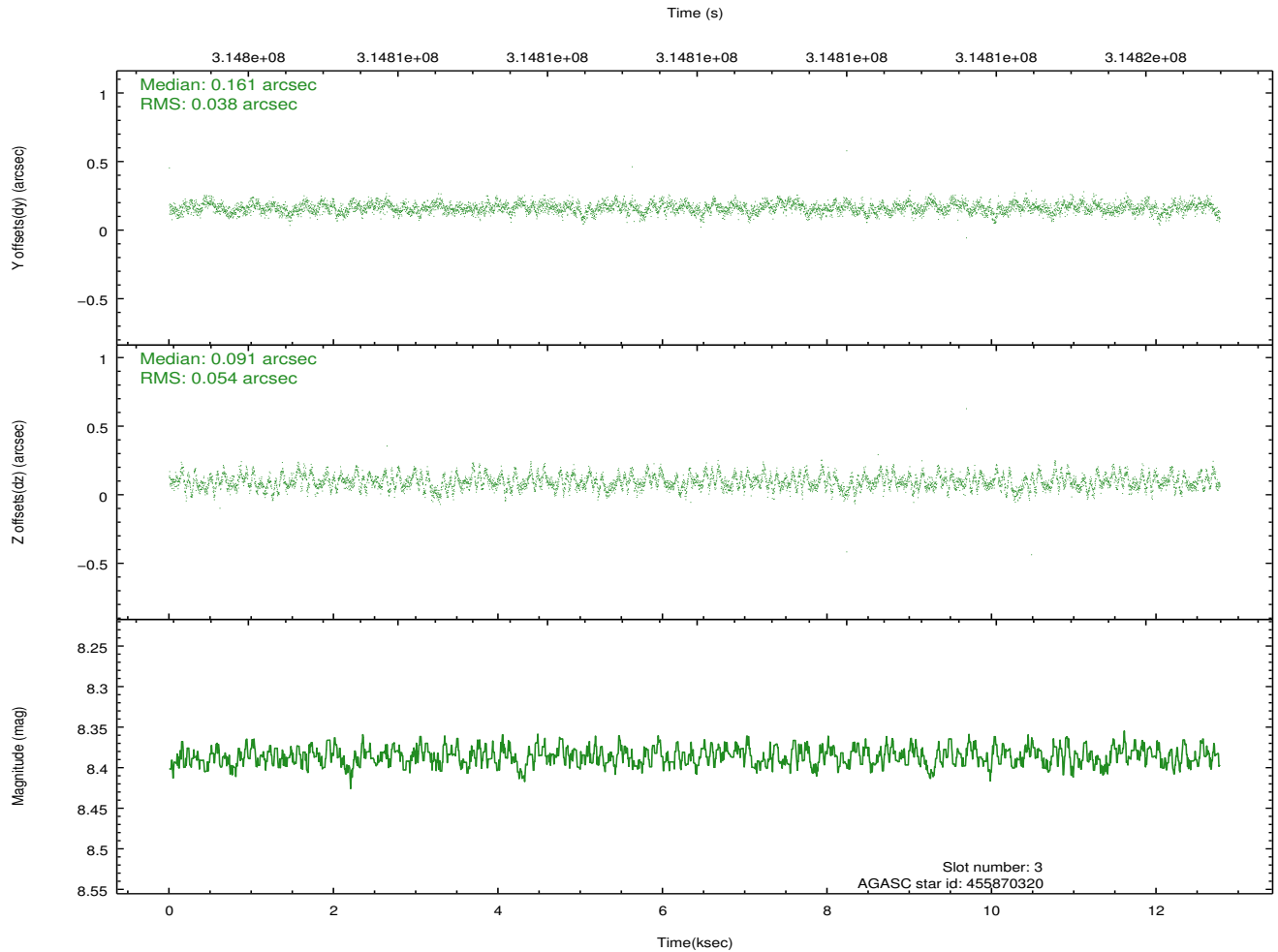
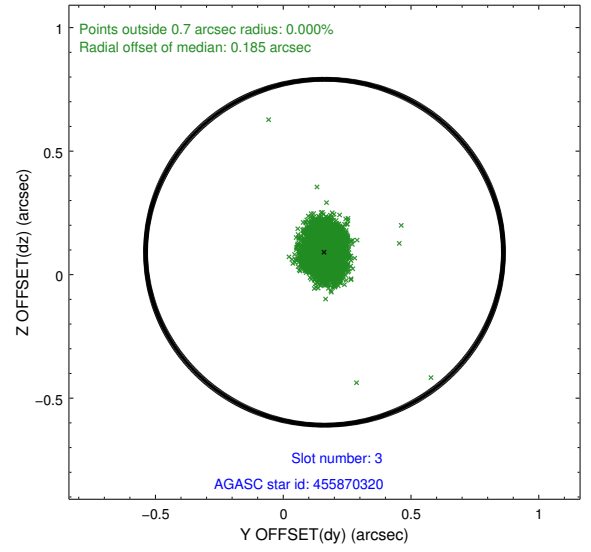
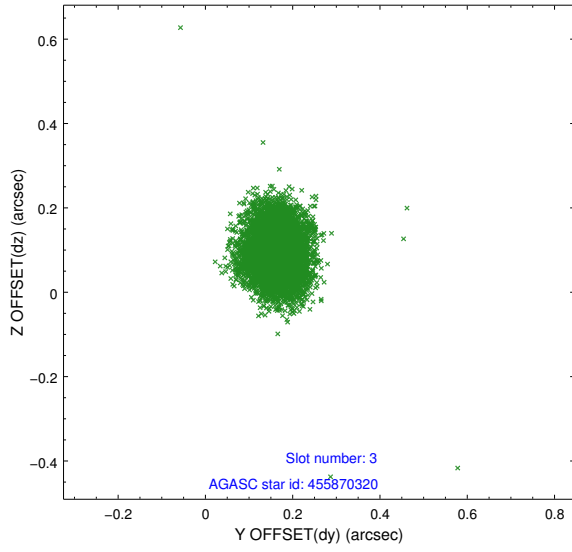


### Slot Statistics

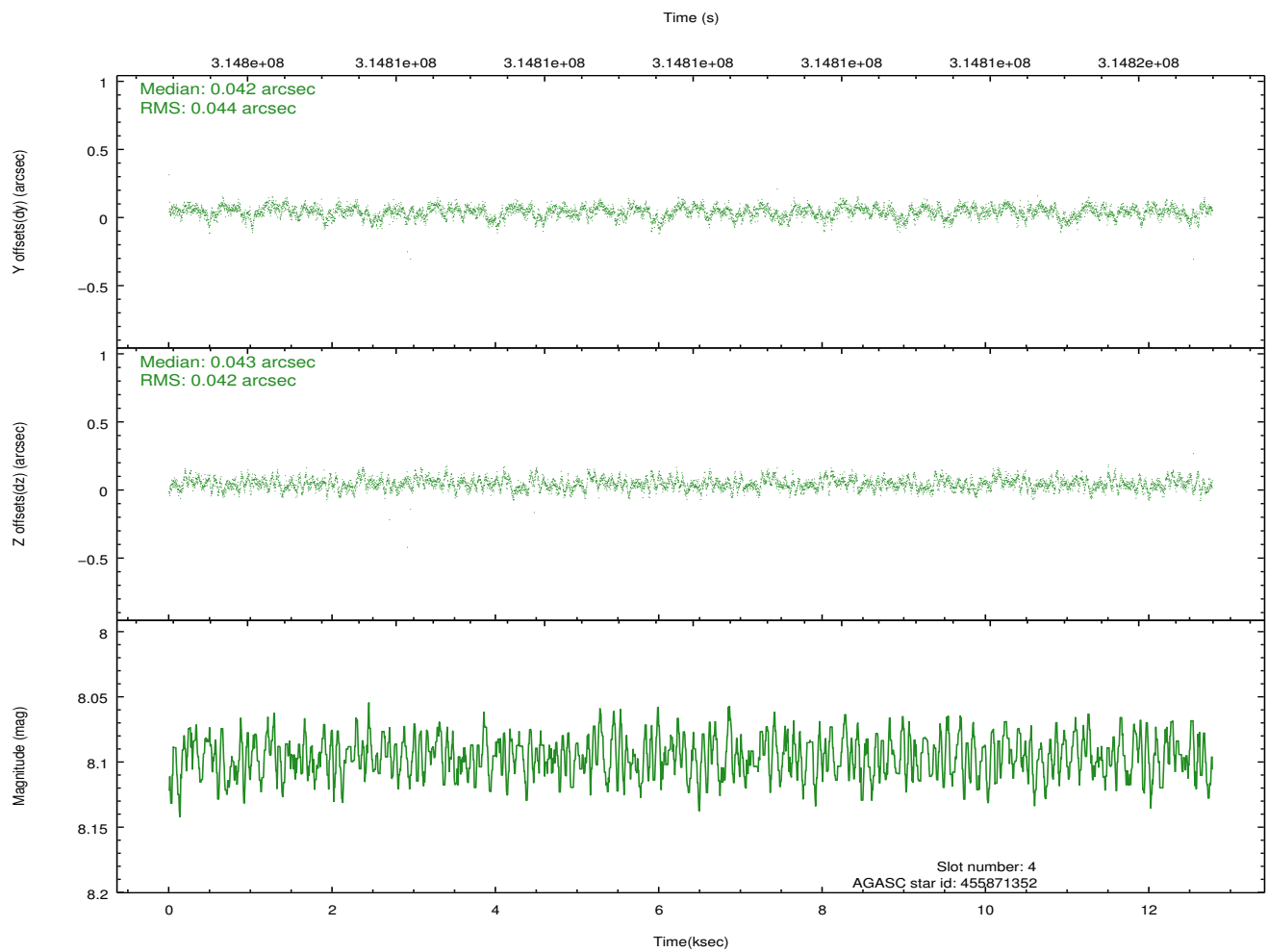
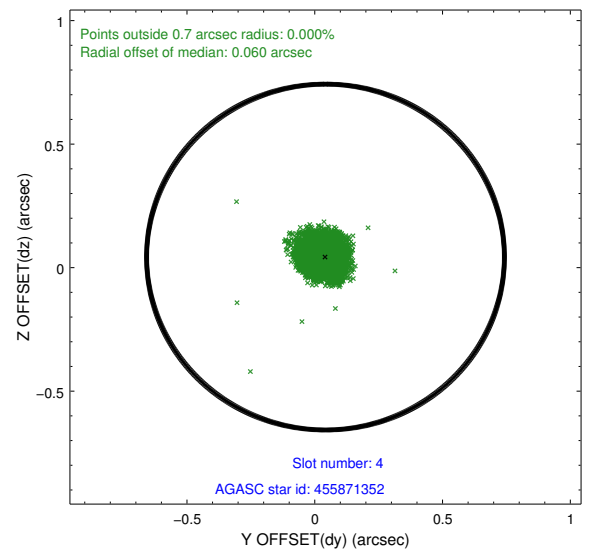
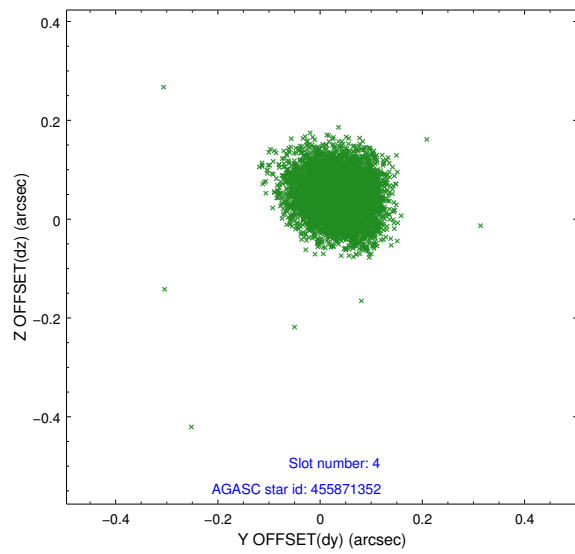
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	3116	0.034	-0.003	0.012	0.020	0.000000	0.000000	925.89	-838.16
1	FID	ACIS-I-5	7.23	3116	-0.222	0.036	0.006	0.010	0.000000	0.000000	-1822.28	1059.15
2	FID	ACIS-I-6	7.24	3115	0.097	0.039	0.013	0.021	0.000000	0.000000	391.06	1704.11
3	GUIDE	455870320	8.39	6231	0.161	0.091	0.069	0.111	214.874440	52.401638	-1838.93	-1079.31
4	GUIDE	455871352	8.10	6229	0.042	0.043	0.064	0.105	215.099961	52.172669	-2128.55	-1997.32
5	GUIDE	505809632	8.06	6228	-0.006	-0.103	0.053	0.088	215.499426	53.521185	2074.19	582.94
6	GUIDE	505812088	8.15	6231	-0.060	-0.162	0.065	0.104	214.186617	53.263562	-482.77	2087.25
7	GUIDE	505815928	8.32	6230	-0.133	0.129	0.065	0.104	216.234742	53.074559	1943.87	-1668.17

## 2.4 Star Slots

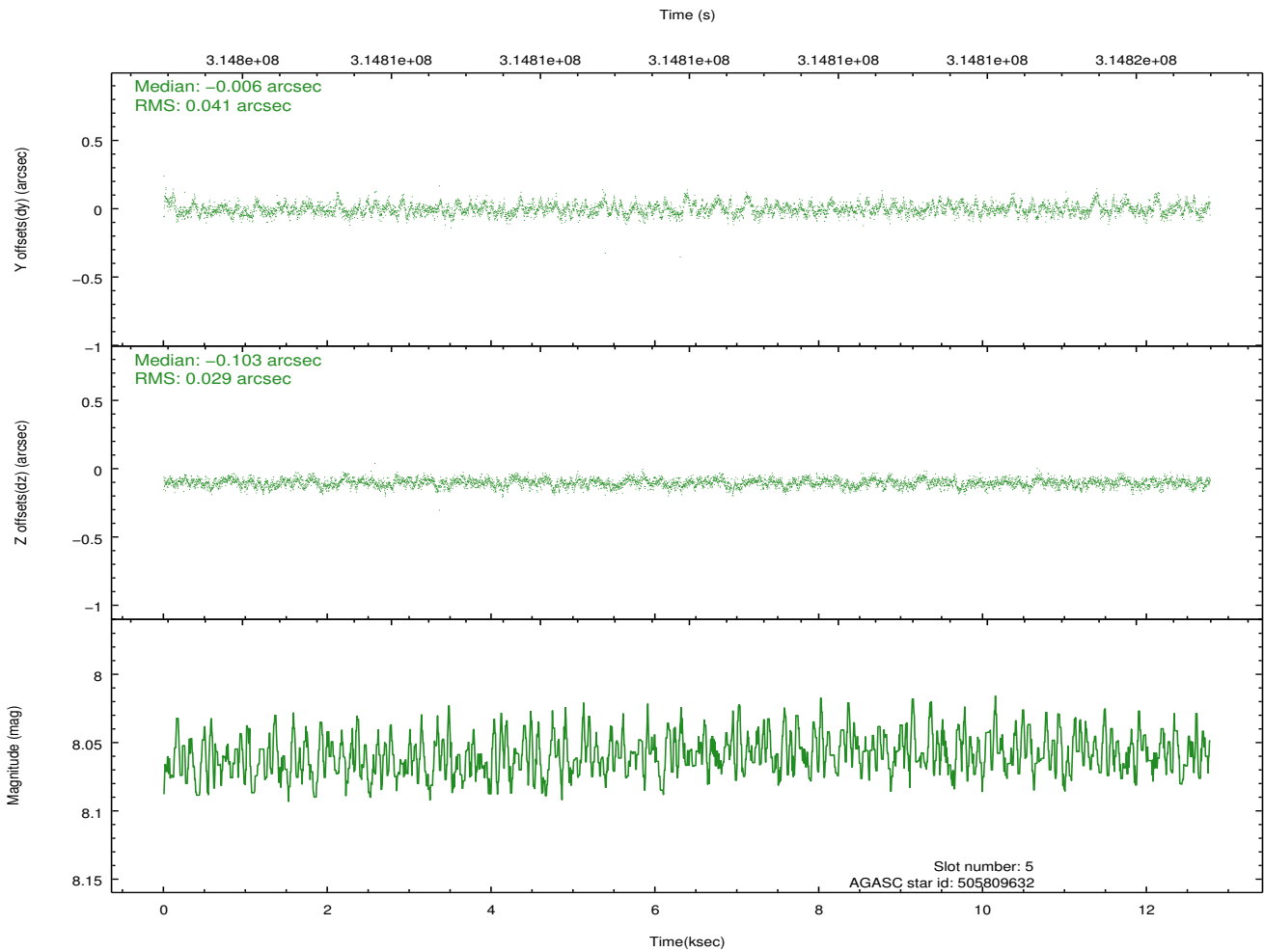
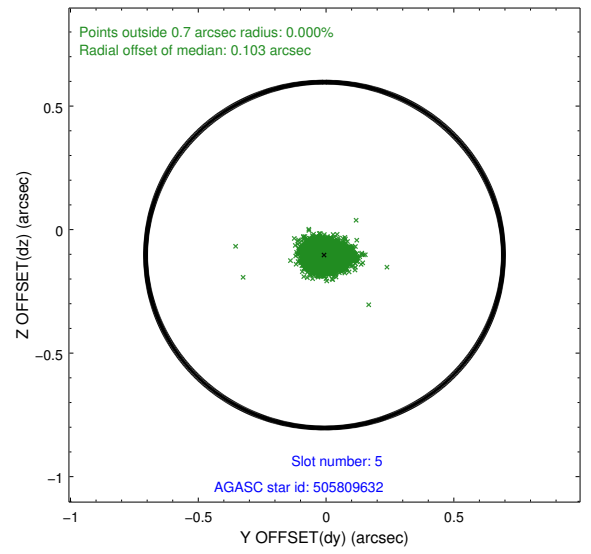
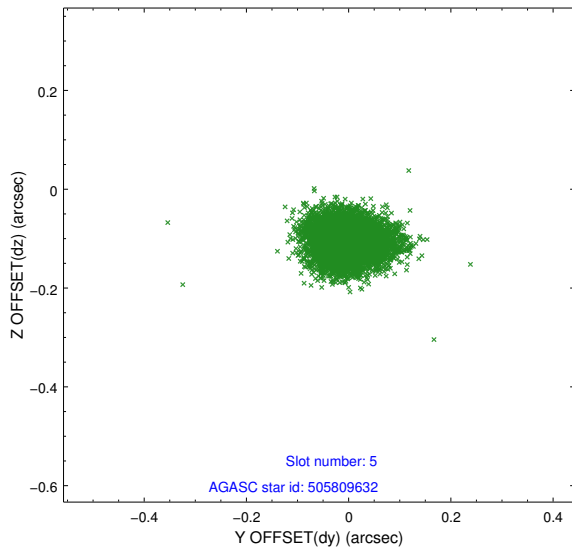
### 2.4.1 Slot 3



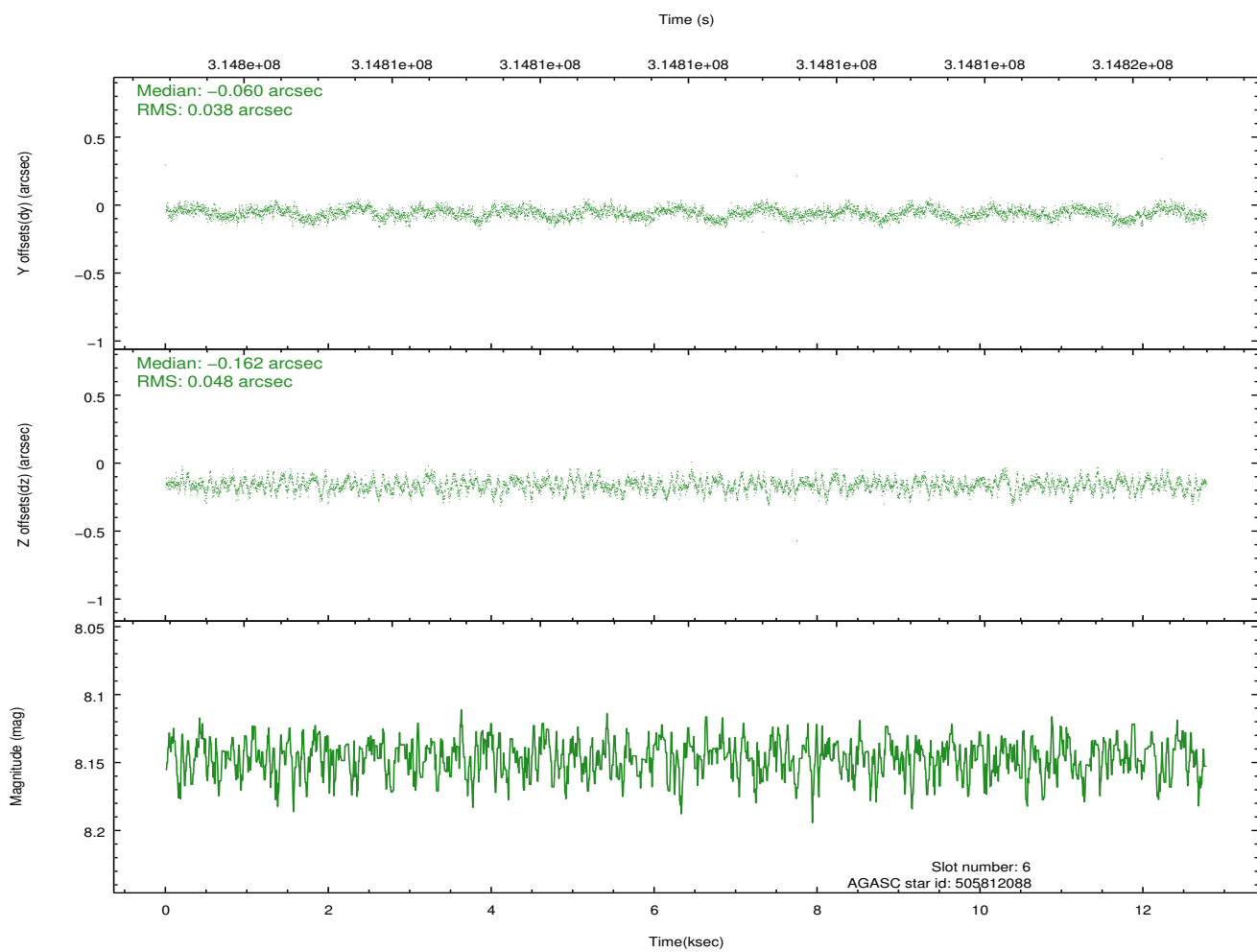
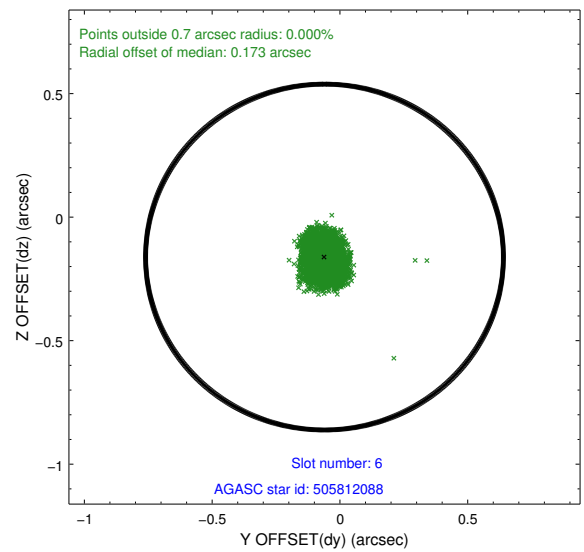
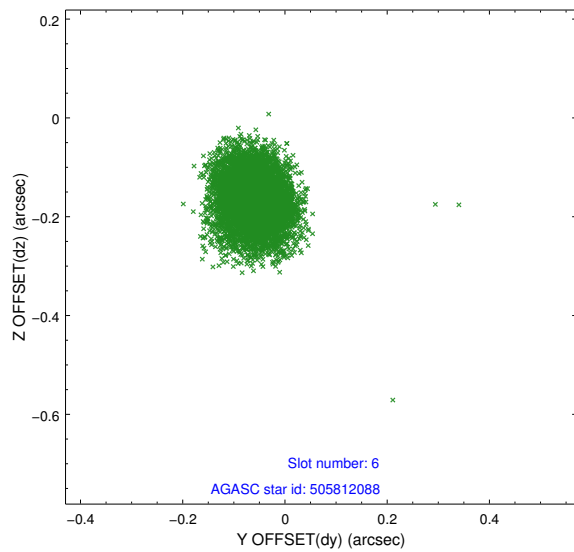
## 2.4.2 Slot 4



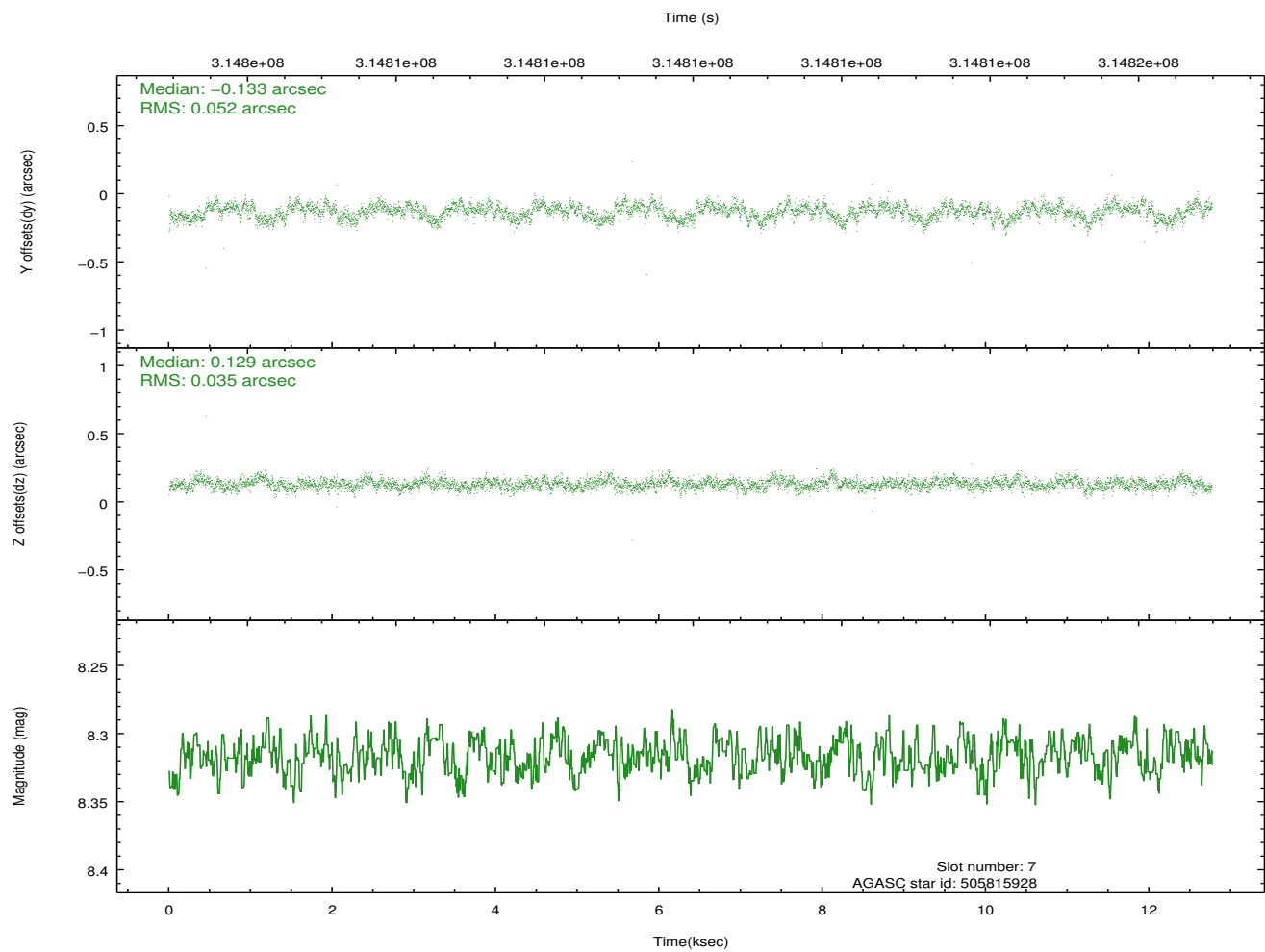
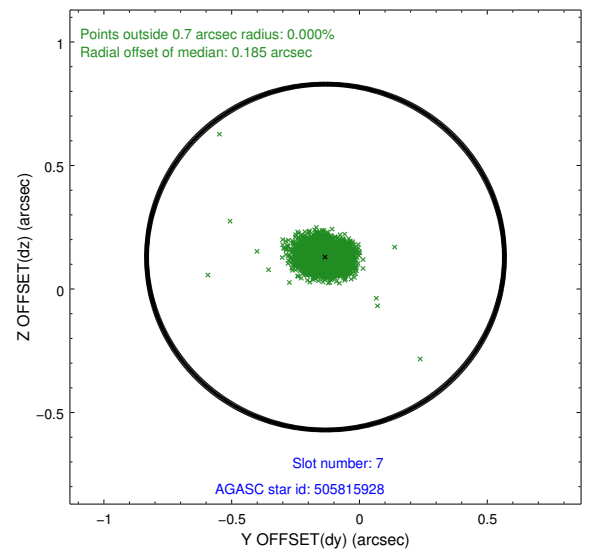
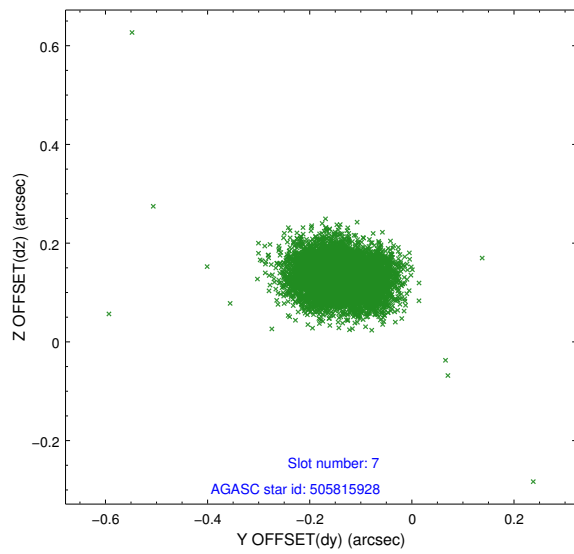
### 2.4.3 Slot 5



## 2.4.4 Slot 6

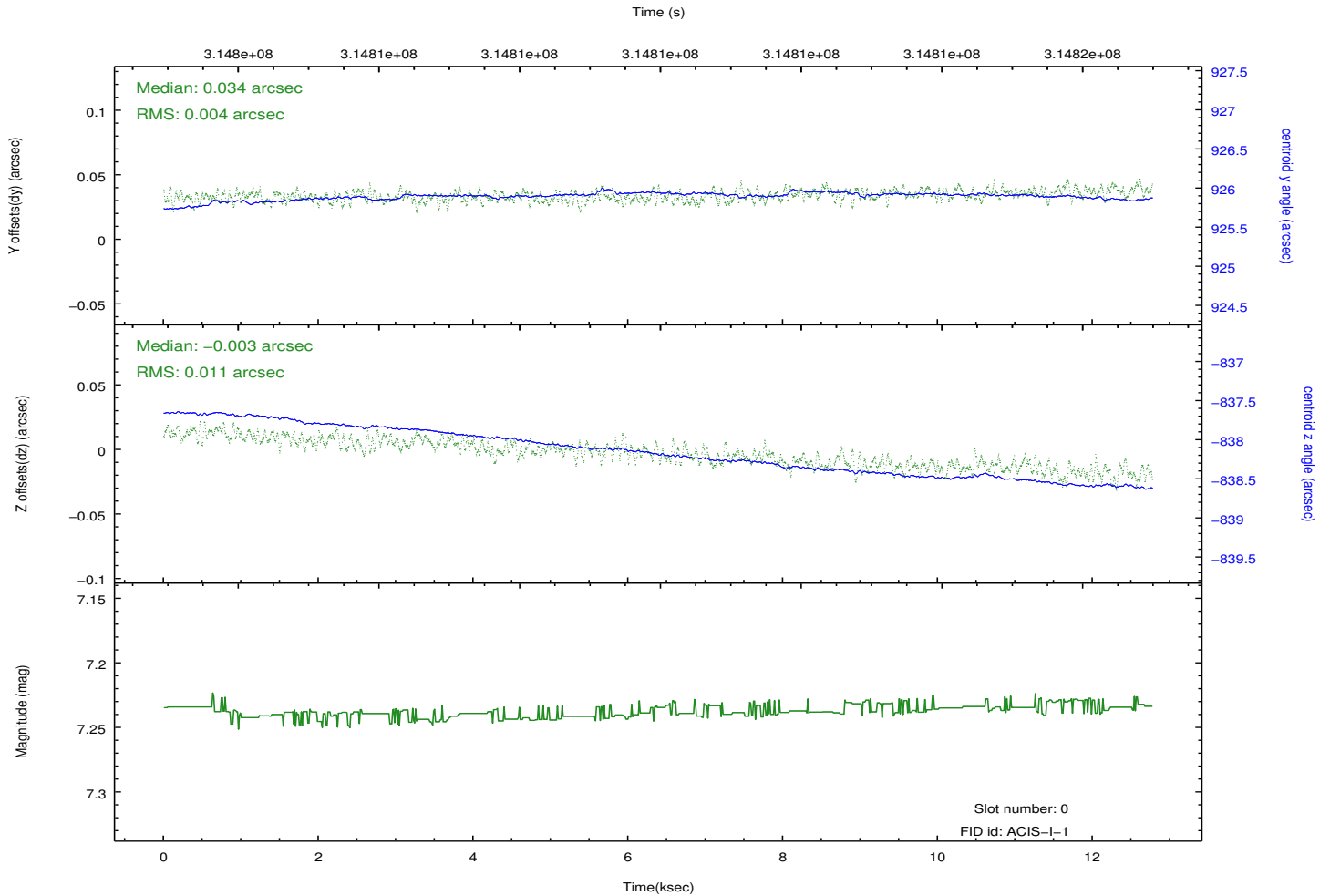
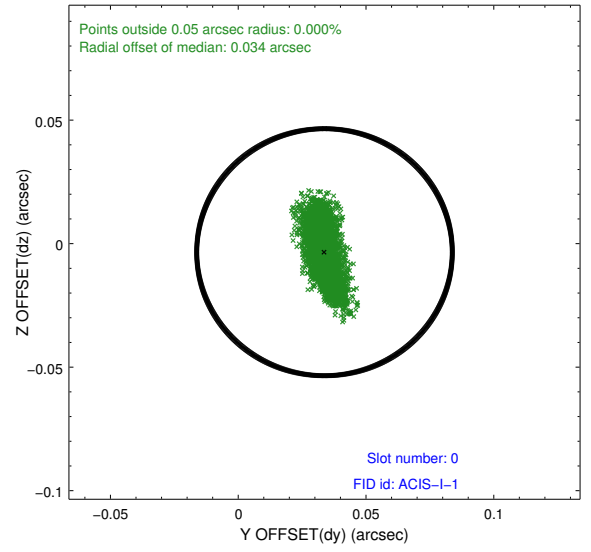
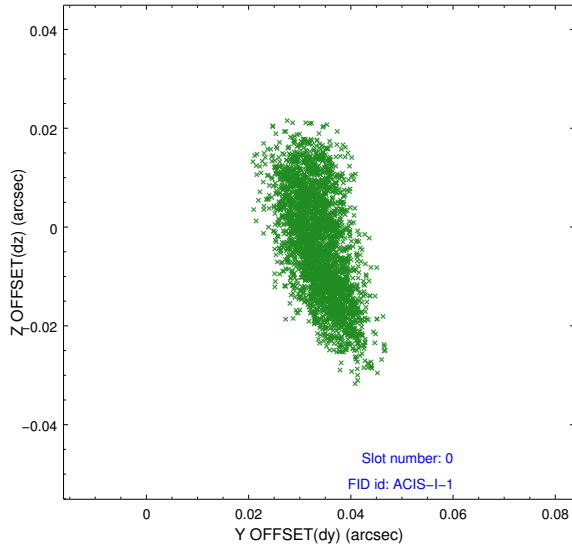


## 2.4.5 Slot 7

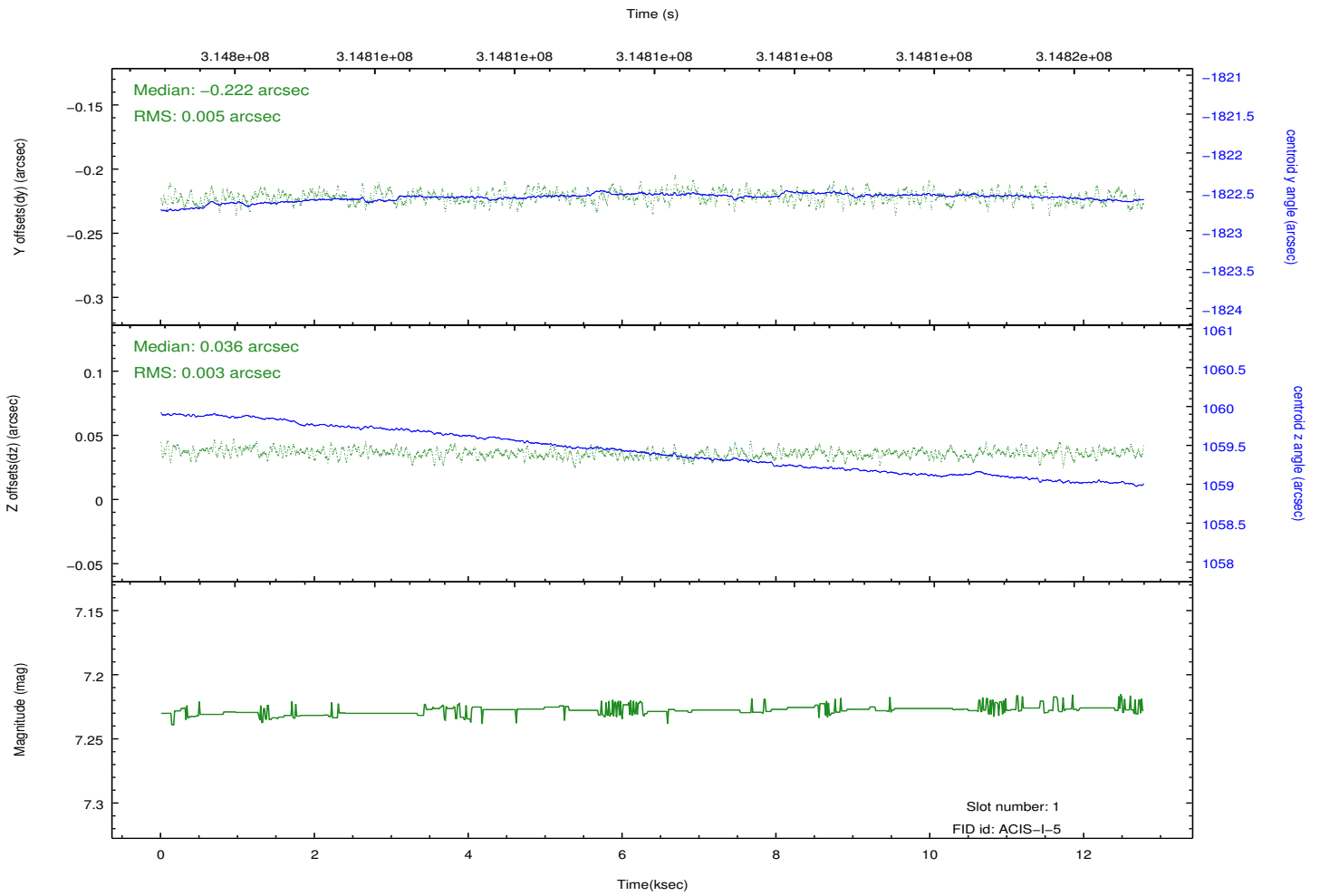
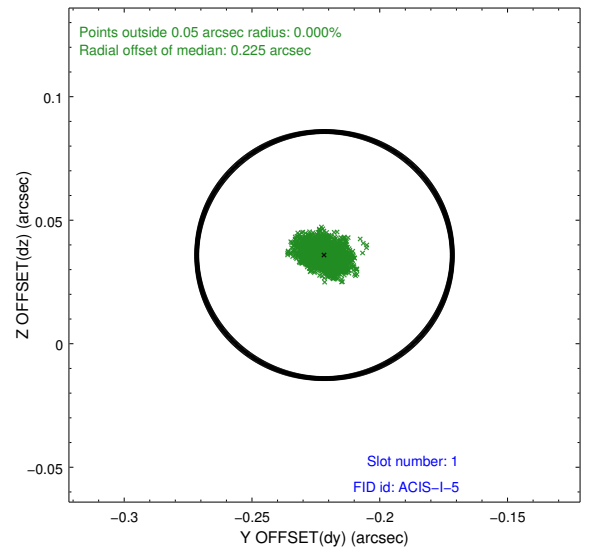
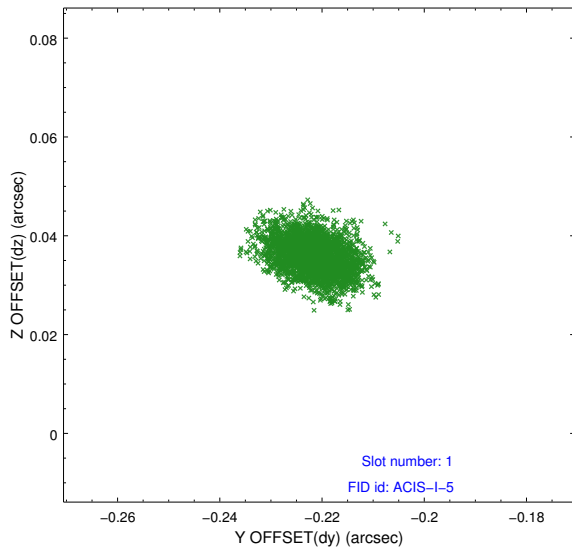


## 2.5 FID Slots

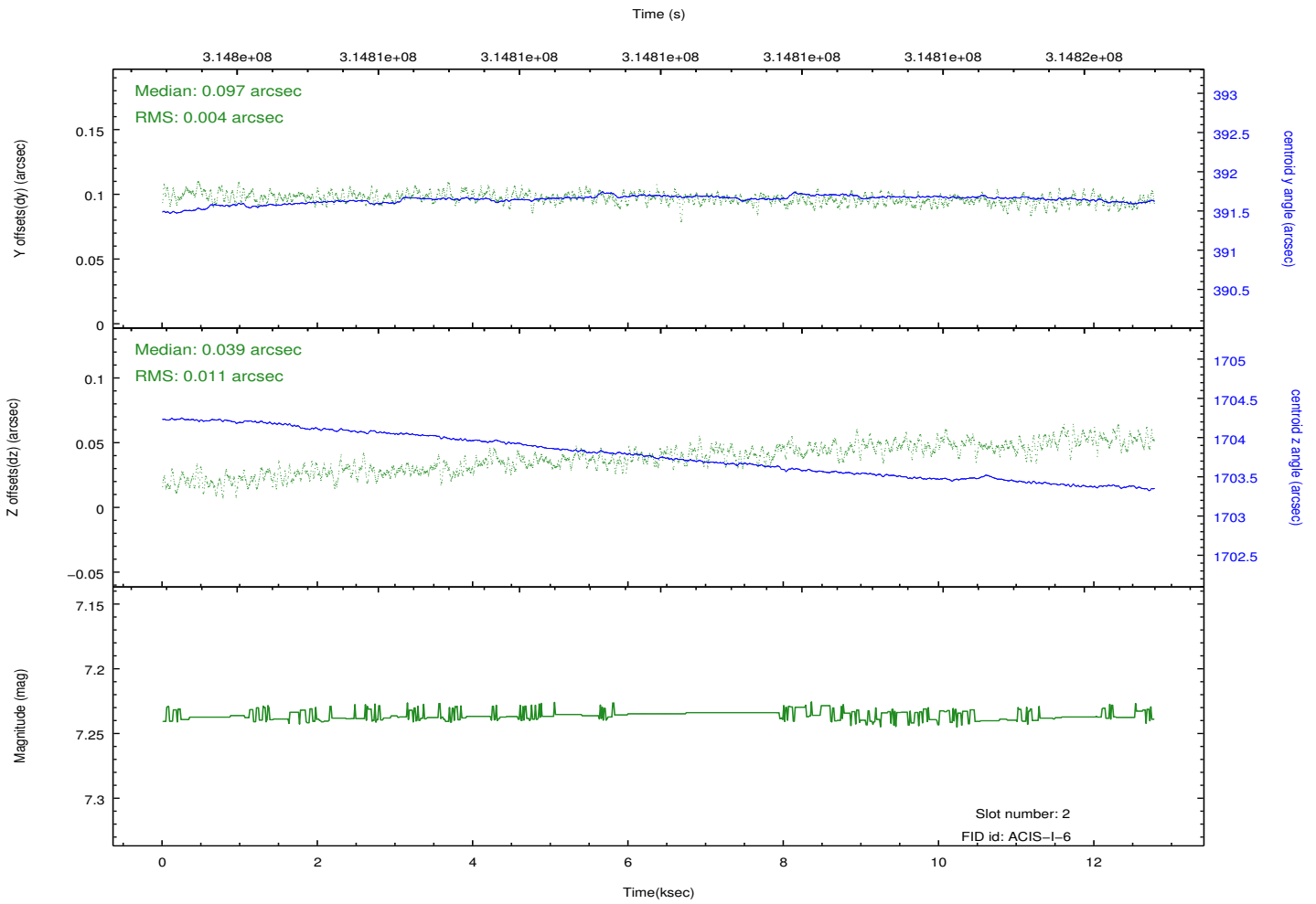
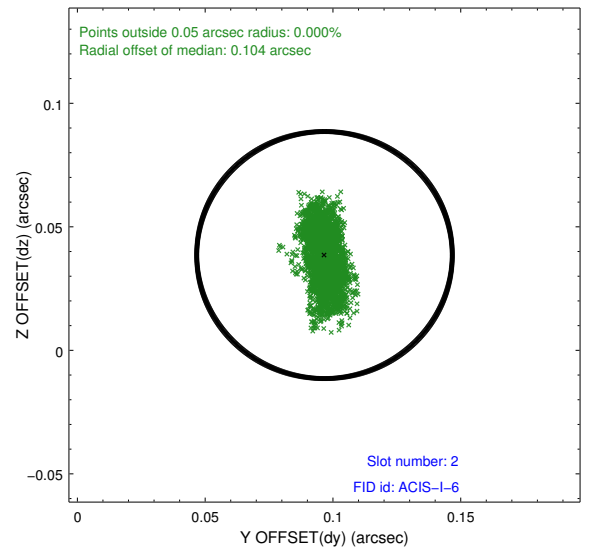
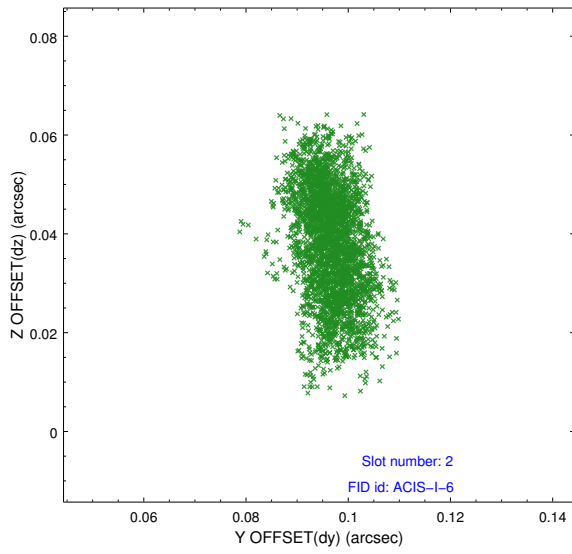
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.7657591

## A.2 Comments

Joint Proposal: Spitzer. Roll constraint met.