

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7579 - L2 Version 3  
Chandra X-Ray Center

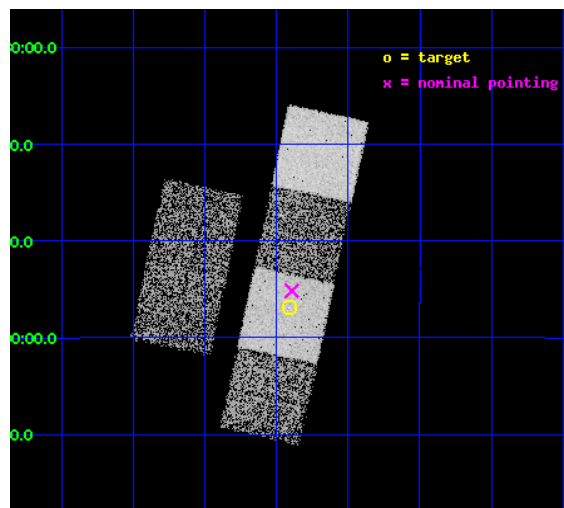
L2 Processing Date : Apr 23 2012

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# 1 Front

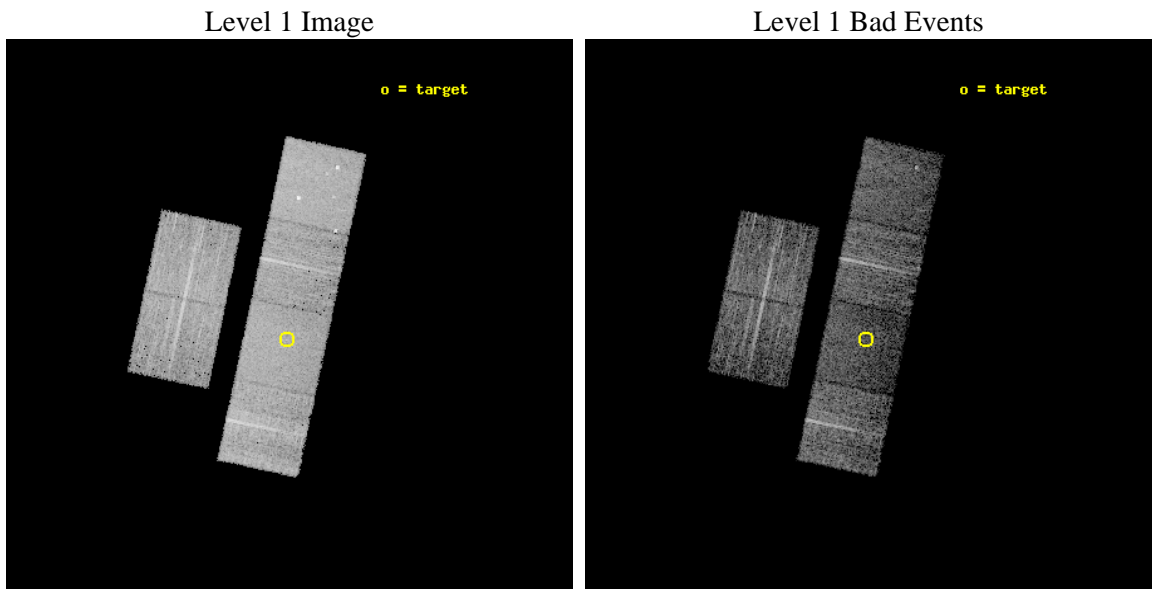
seq_num	500711	Sequence number
obs_id	7579	Observation id
title	Chandra monitoring of the candidate Anomalous X-ray Pulsar AX J1845-0258	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	AX J1845-0258	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	281.227833	Observer's specified target RA [deg]
dec_targ	-2.948083	Observer's specified target Dec [deg]
ra_nom	281.22340752294	Nominal RA [deg]
dec_nom	-2.9192417933174	Nominal Dec [deg]
roll_nom	102.08848084378	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5046.0485311151	Sum of GTIs [s]
livetime	4982.1524262484	Livetime [s]
ontime2	5046.0895711184	Sum of GTIs [s]
ontime3	5045.9254111052	Sum of GTIs [s]
ontime5	5046.0074911118	Sum of GTIs [s]
ontime6	5045.9664511085	Sum of GTIs [s]
ontime7	5046.0485311151	Sum of GTIs [s]
ontime8	5045.8843711019	Sum of GTIs [s]
l2events	59525	Number of level 2 events



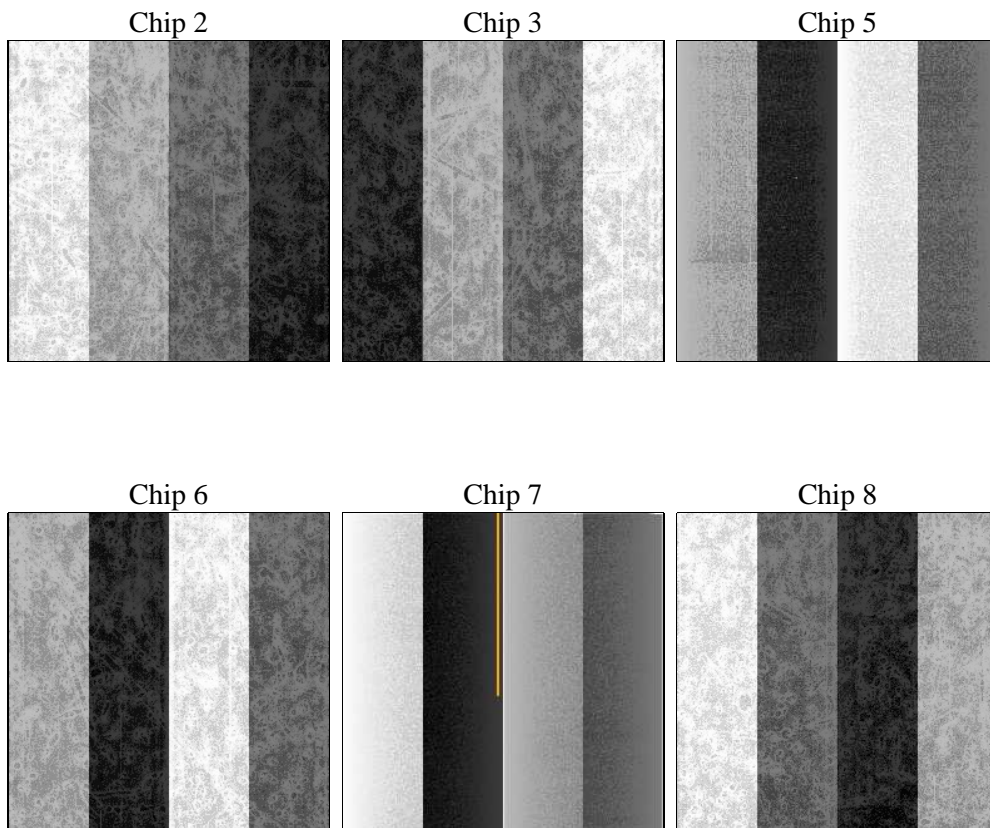
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5046.0485311151	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	5046.0895711184	Sum of GTIs [s]
date	2012-04-23T20:18:22	Date and time of file creation	ontime3	5045.9254111052	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5046.0074911118	Sum of GTIs [s]
			ontime6	5045.9664511085	Sum of GTIs [s]
			ontime7	5046.0485311151	Sum of GTIs [s]
			ontime8	5045.8843711019	Sum of GTIs [s]
			l1events	267486	Number of level 1 events

### 2.1.4 Events

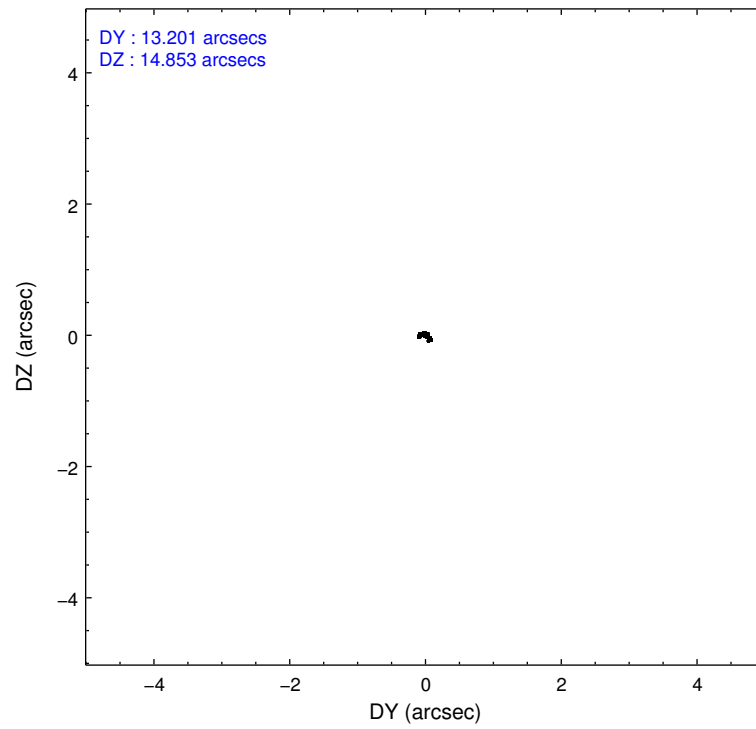
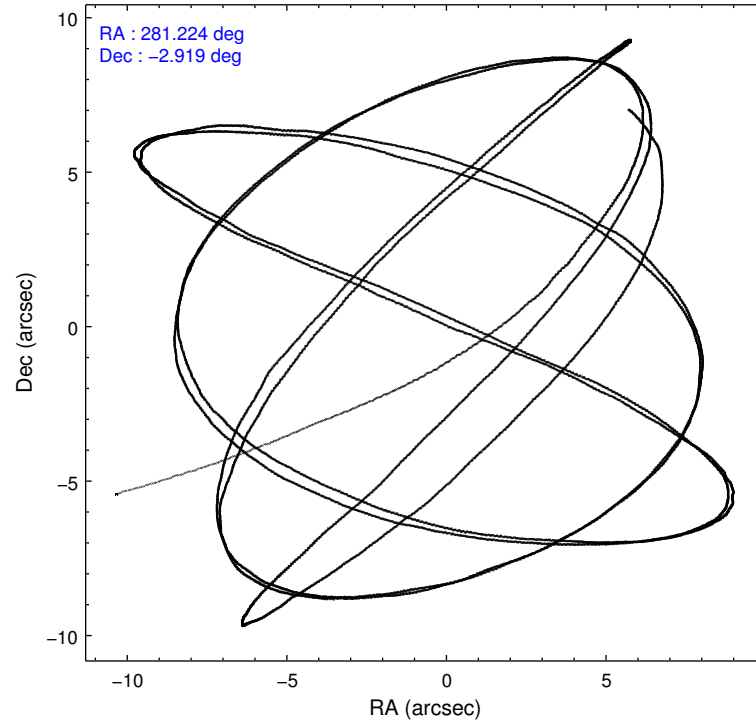
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	43276	37040	55177	39500	42880	49613	grade 0 events	1659	1409	3364	1654	1970	3520
rejected events	39014	33274	27011	35185	22620	37937		3%	3%	6%	4%	4%	7%
rejected %	90%	89%	48%	89%	52%	76%	grade 1 events	28	28	103	23	55	39
								0%	0%	0%	0%	0%	0%
							grade 2 events	982	801	8447	951	4181	2628
								2%	2%	15%	2%	9%	5%
							grade 3 events	422	423	1224	424	1936	1271
								0%	1%	2%	1%	4%	2%
							grade 4 events	434	430	1115	443	1885	1226
								1%	1%	2%	1%	4%	2%
							grade 5 events	1231	1464	4417	1564	4536	2183
								2%	3%	8%	3%	10%	4%
							grade 6 events	769	704	14027	844	10301	3037
								1%	1%	25%	2%	24%	6%
							grade 7 events	37751	31781	22480	33597	18016	35709
								87%	85%	40%	85%	42%	71%

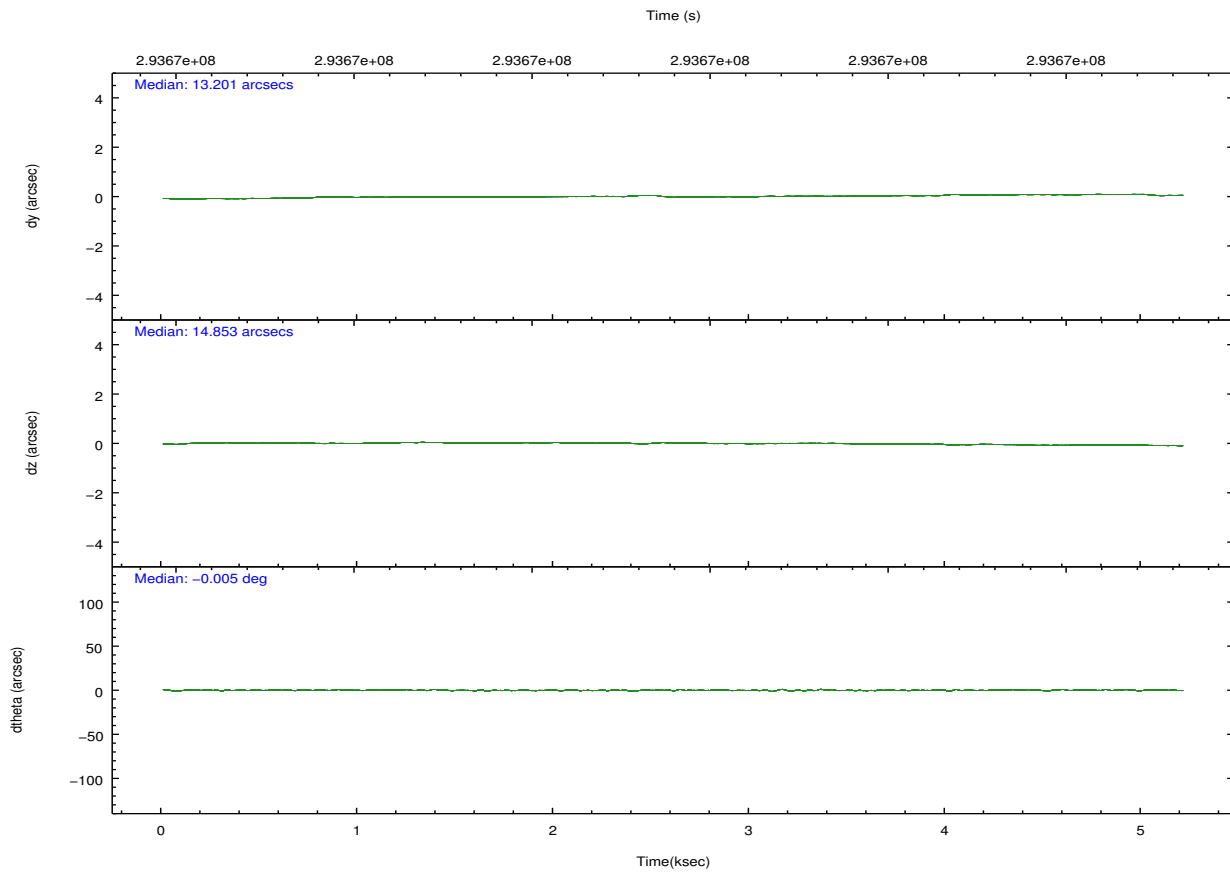
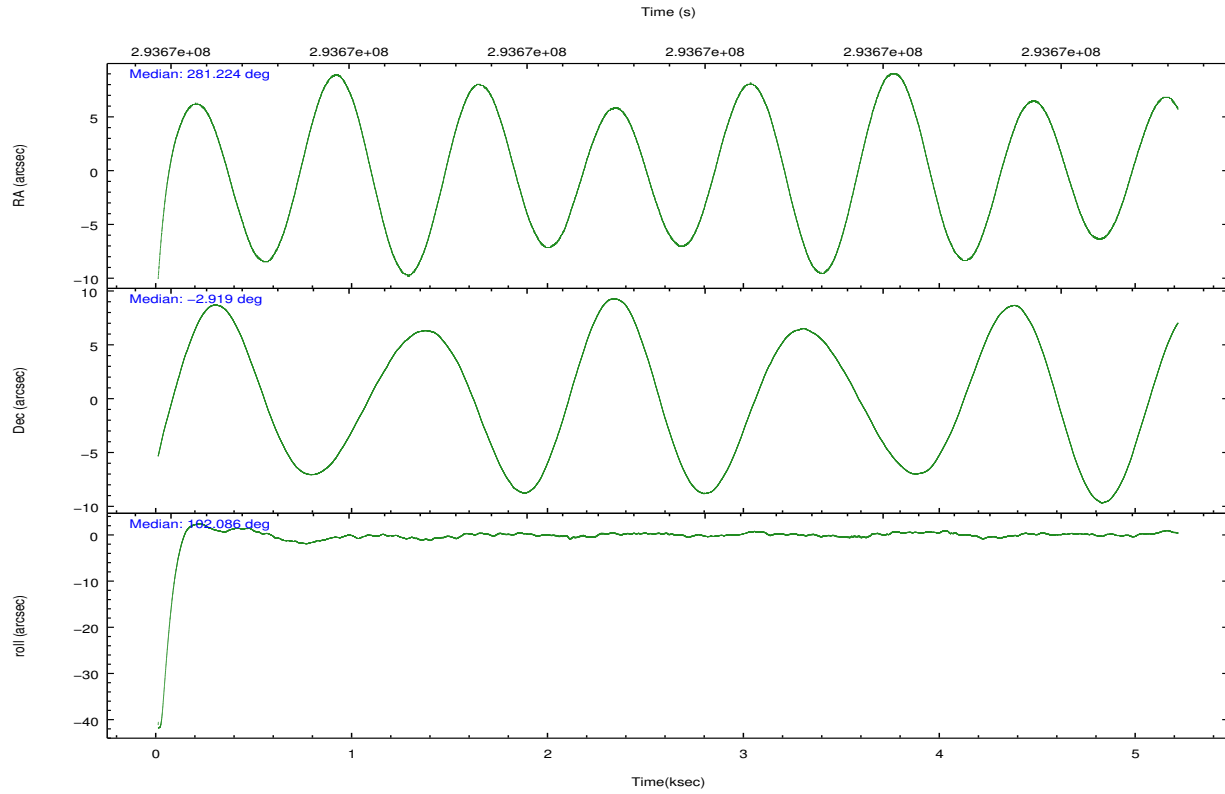


## 2.2 Compared Parameters

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	281.242006	281.223407522942	CCD I2 on	O1	Y
[deg] Pointing Dec	-2.939297	-2.919241793317392	CCD I3 on	Y	Y
[deg] Pointing Roll	101.932911	102.0884808437794	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	293669403.184000	293668366.72722	CCD S5 on	N	N
Observation start date	2007-04-22T22:48:58	2007-04-22T22:32:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	293674403.184000	293675059.46504	On-chip summing requested	N	N
Observation end date	2007-04-23T00:12:18	2007-04-23T00:24:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



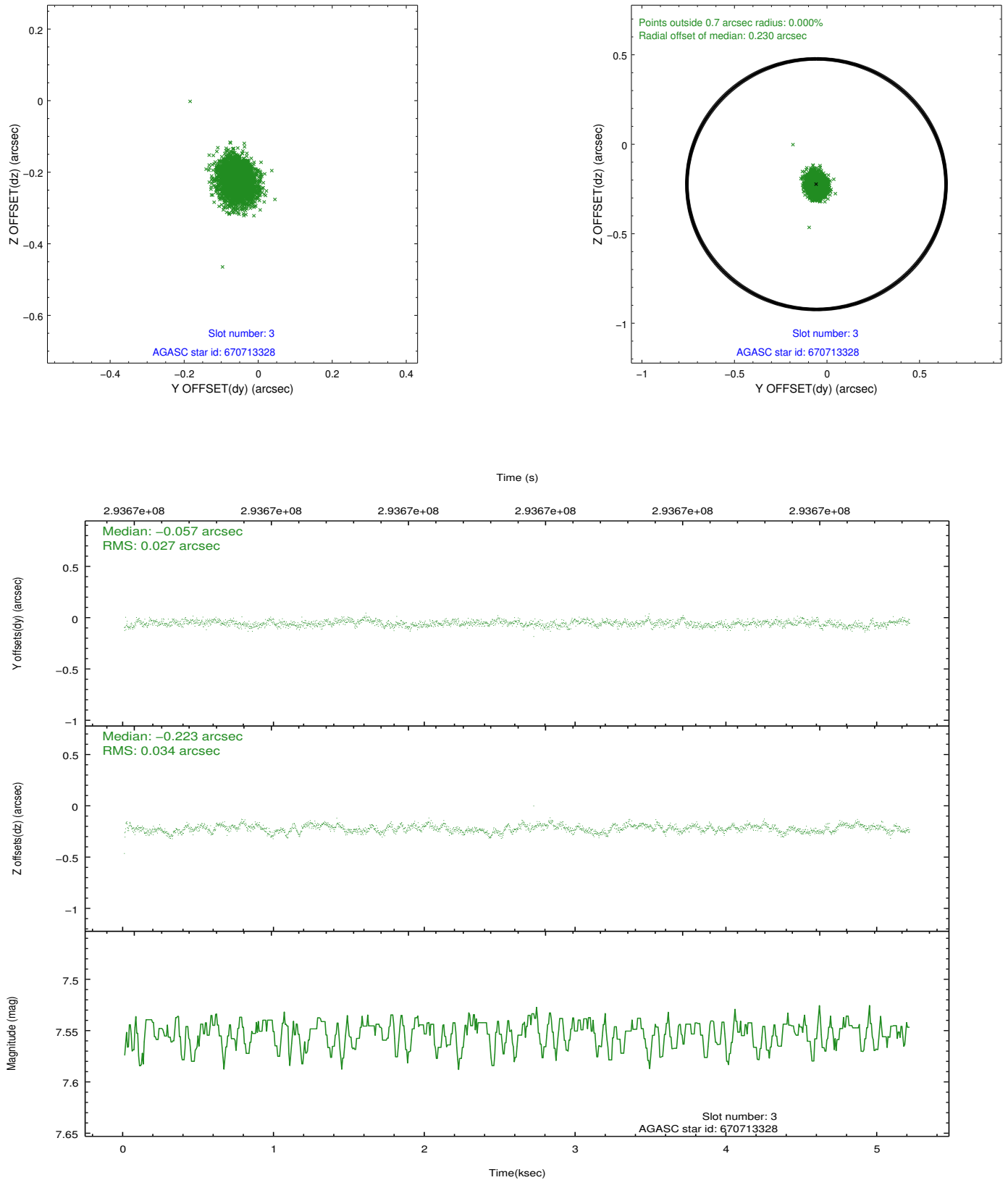


### Slot Statistics

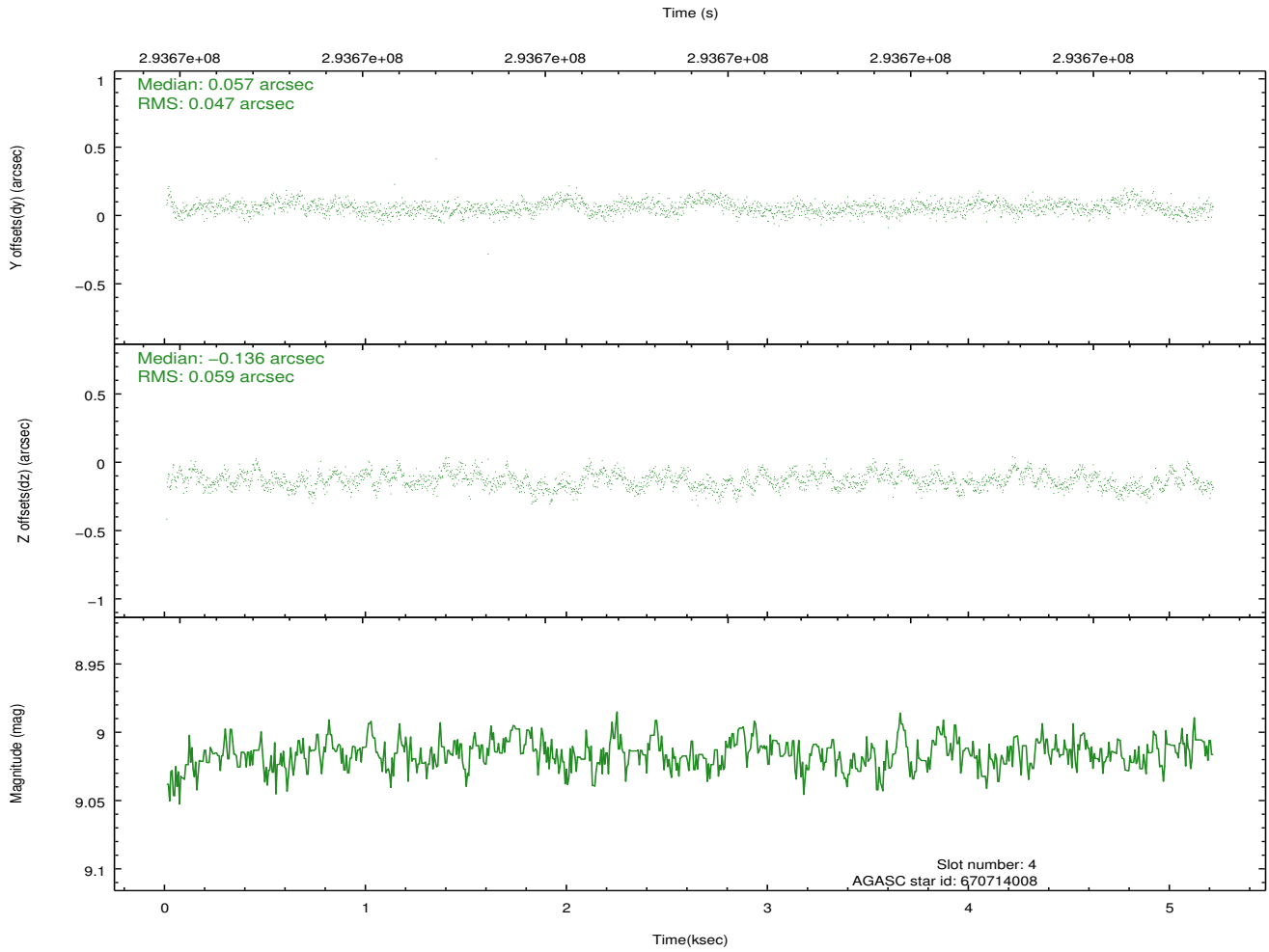
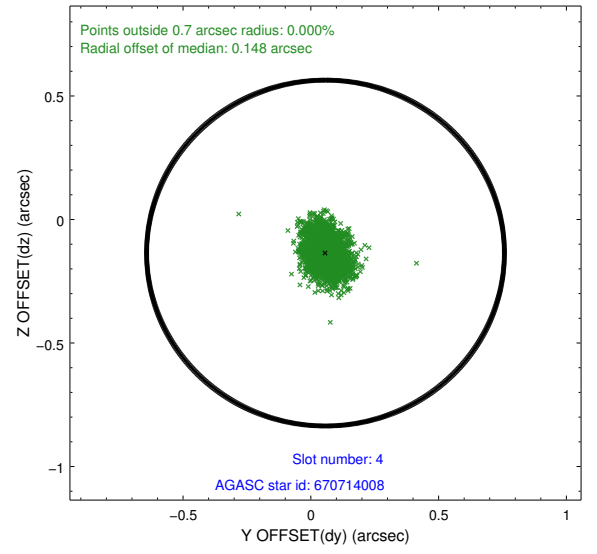
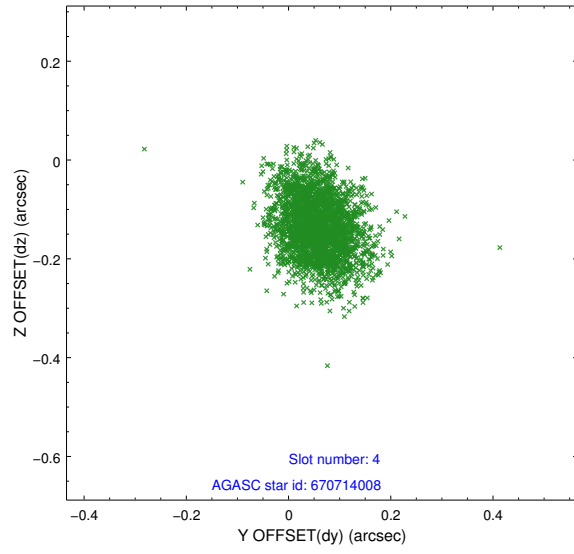
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1270	-0.053	-0.035	0.007	0.012	0.000000	0.000000	-766.15	-1736.26
1	FID	ACIS-S-4	7.19	1269	0.182	0.035	0.006	0.012	0.000000	0.000000	2146.80	171.13
2	FID	ACIS-S-5	7.22	1270	-0.161	0.009	0.007	0.012	0.000000	0.000000	-1817.64	166.04
3	GUIDE	670713328	7.55	2541	-0.057	-0.223	0.047	0.073	280.824681	-3.187771	-565.17	1652.73
4	GUIDE	670714008	9.02	2541	0.057	-0.136	0.079	0.131	281.129237	-3.153193	-669.72	556.61
5	GUIDE	670829704	8.62	2540	-0.108	0.165	0.061	0.097	281.322555	-2.956964	-122.41	-269.49
6	GUIDE	670830264	8.75	2541	0.070	0.194	0.065	0.104	281.361536	-3.231556	-1118.15	-202.45
7	GUIDE	670713072	8.98	2540	0.036	0.002	0.066	0.108	281.205407	-3.604132	-2314.88	623.67

## 2.4 Star Slots

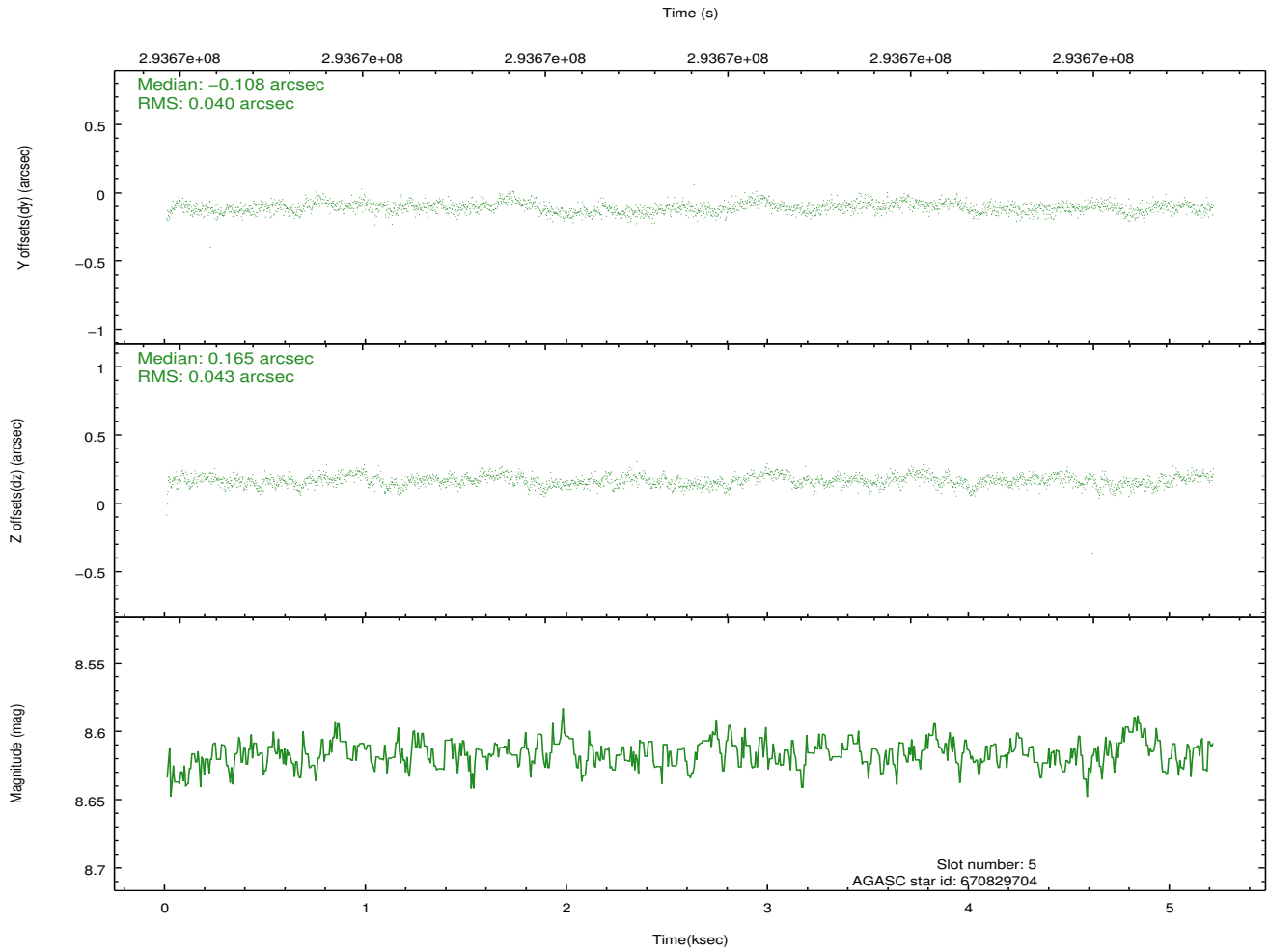
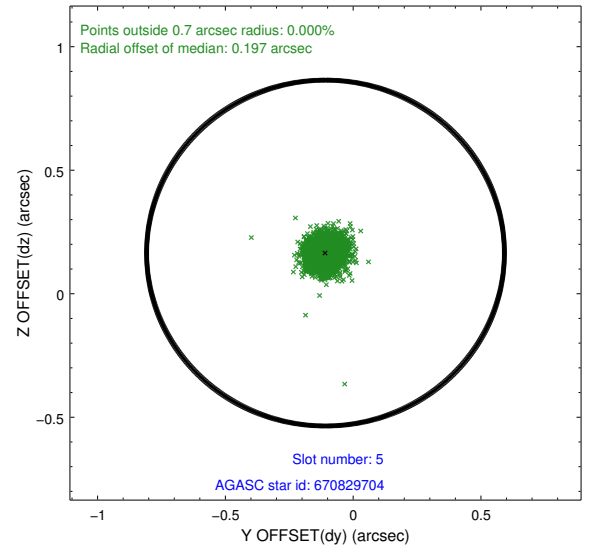
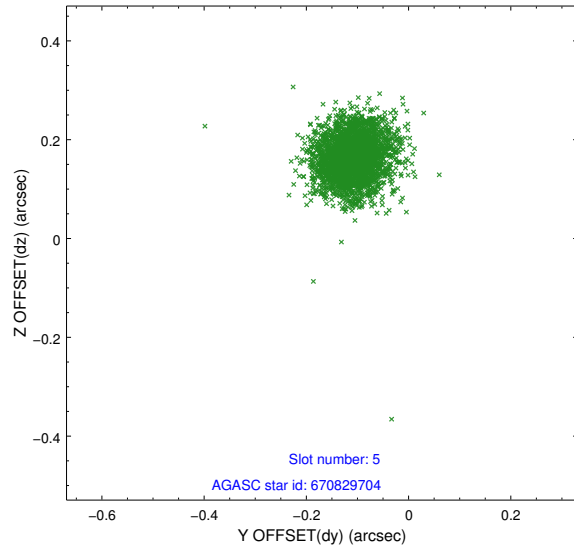
### 2.4.1 Slot 3



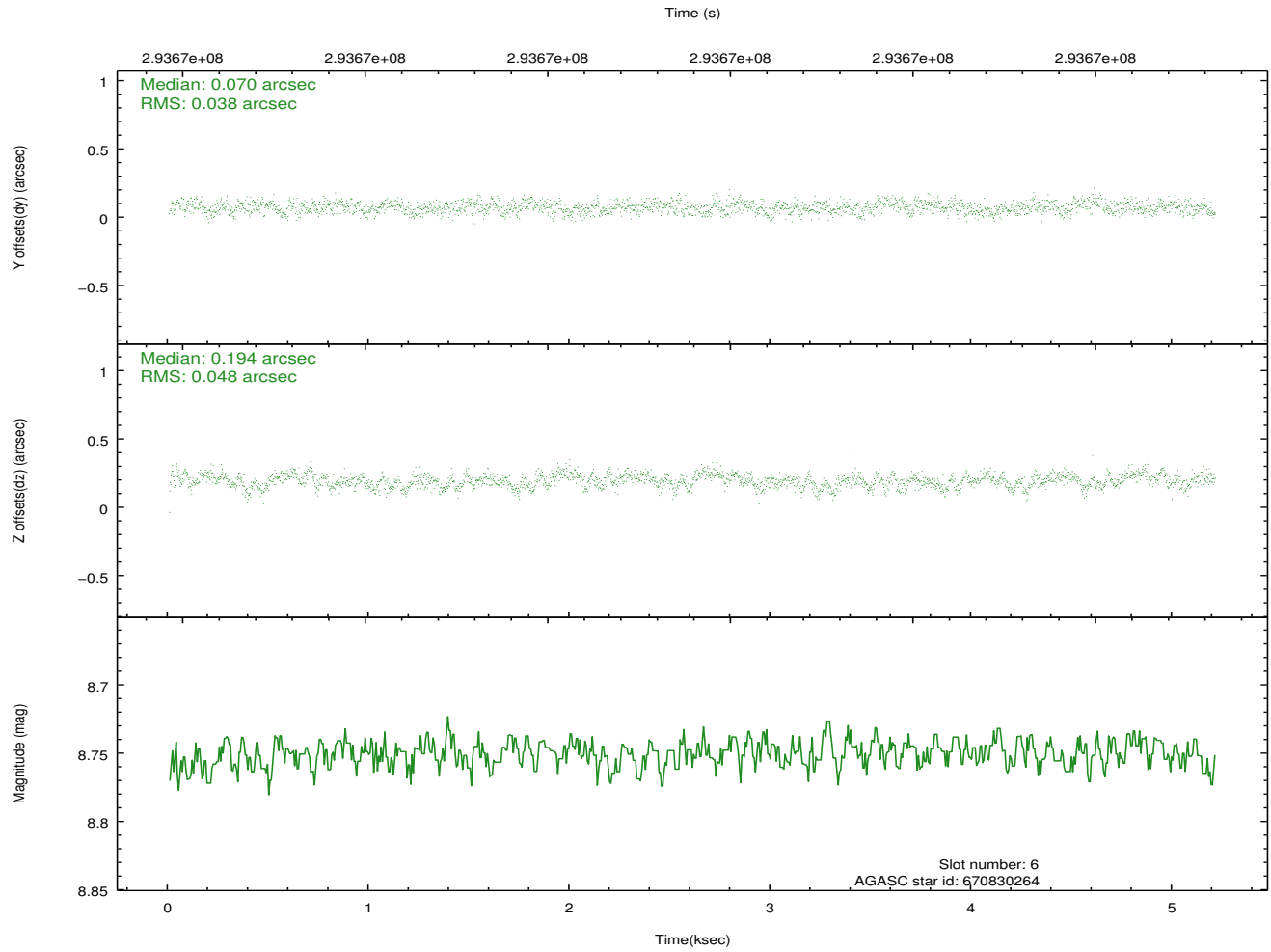
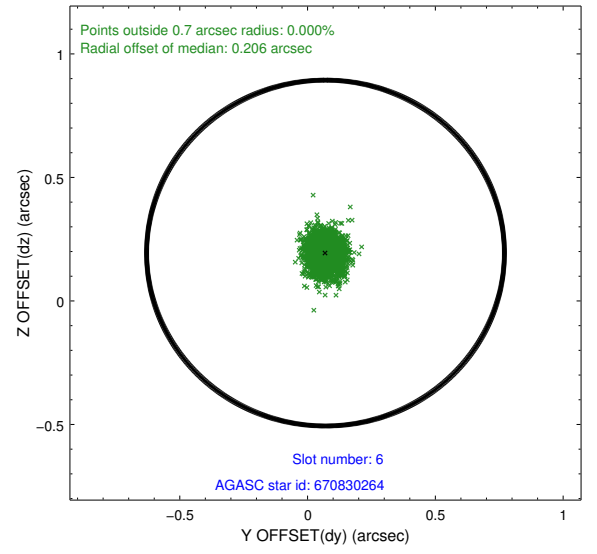
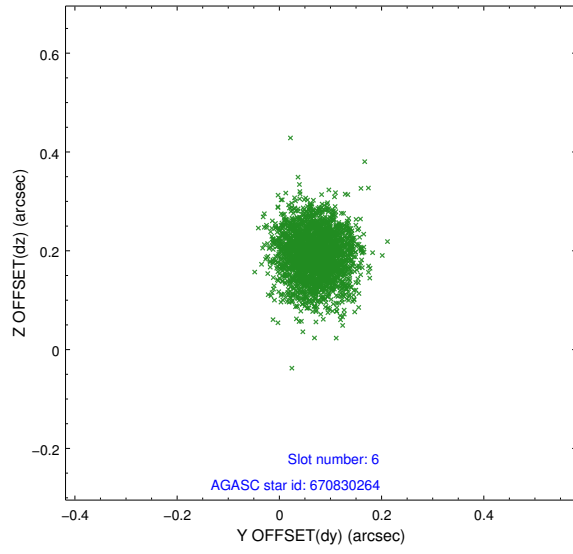
## 2.4.2 Slot 4



### 2.4.3 Slot 5

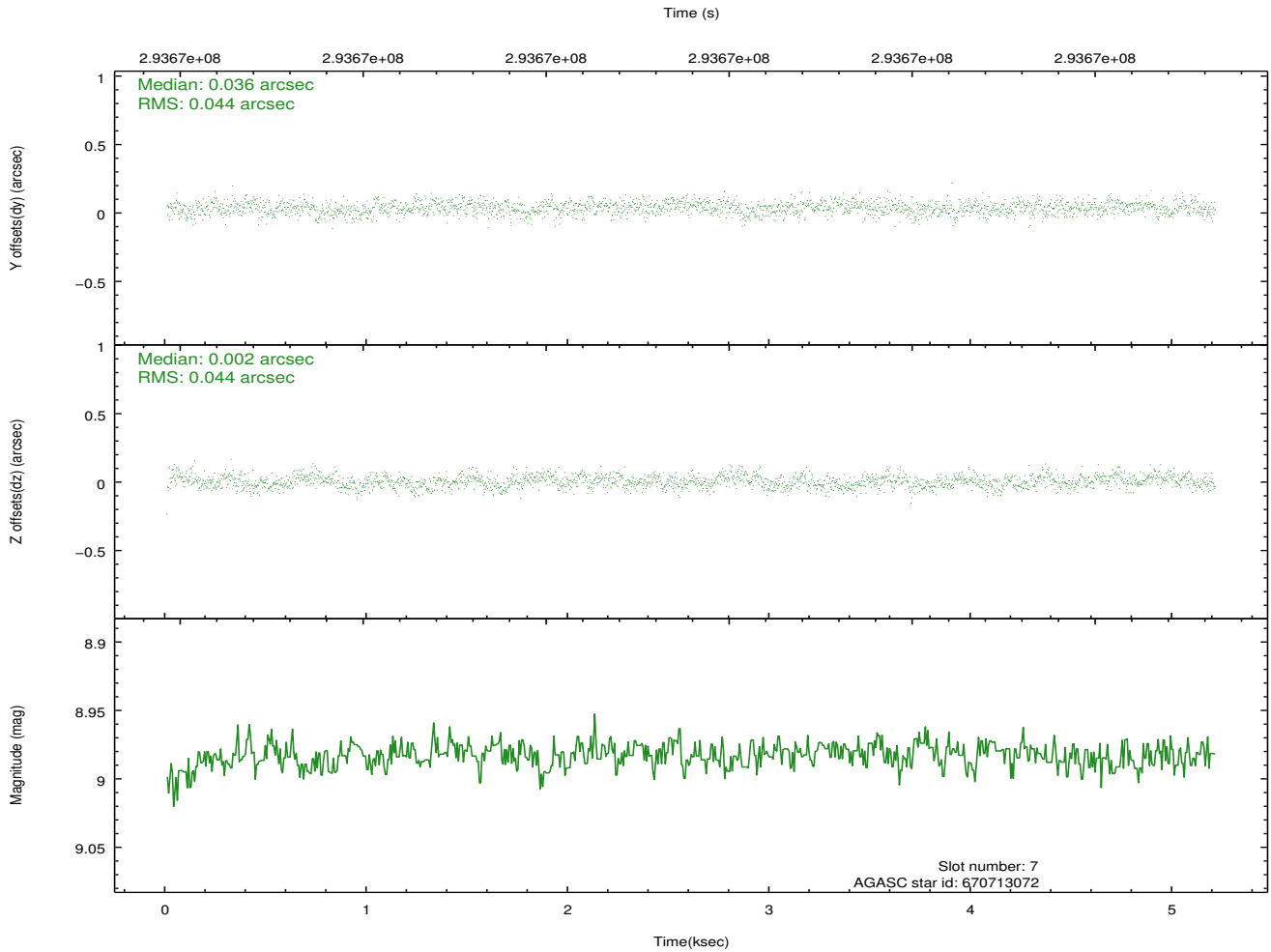
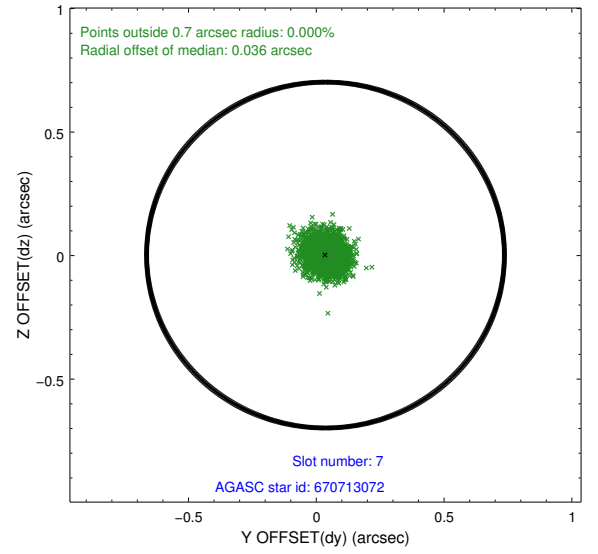
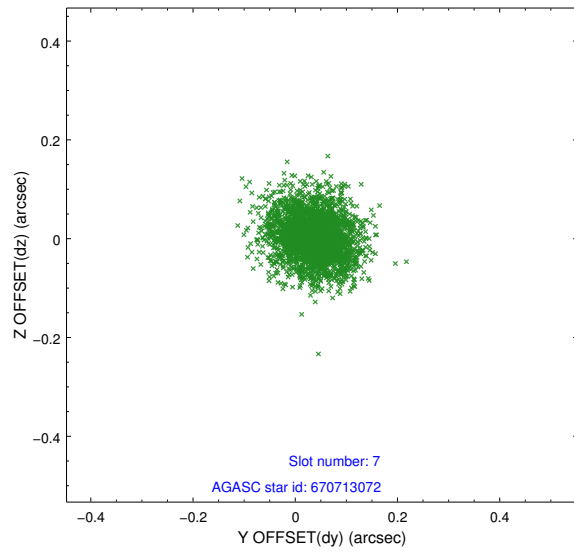


## 2.4.4 Slot 6



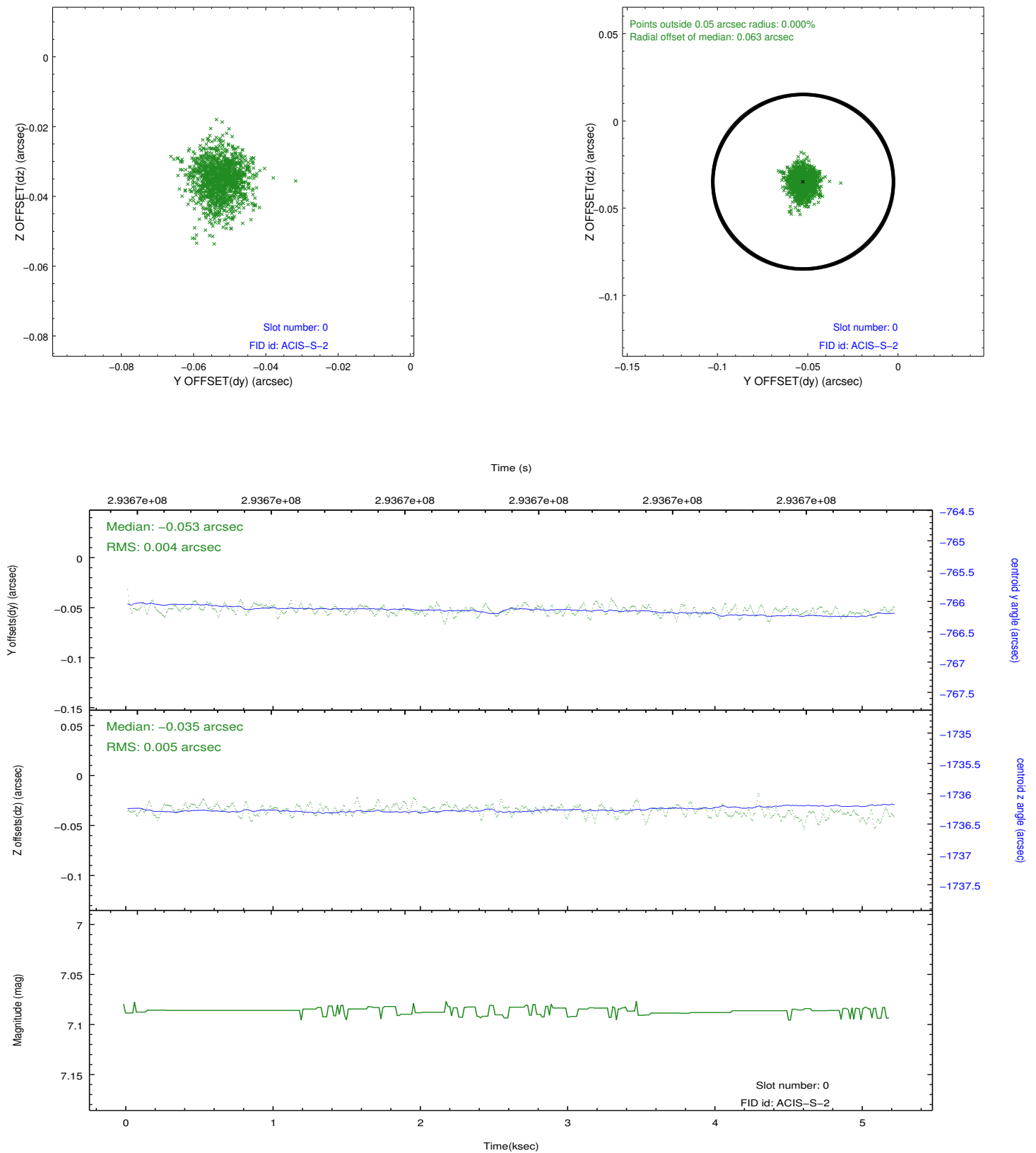


## 2.4.5 Slot 7

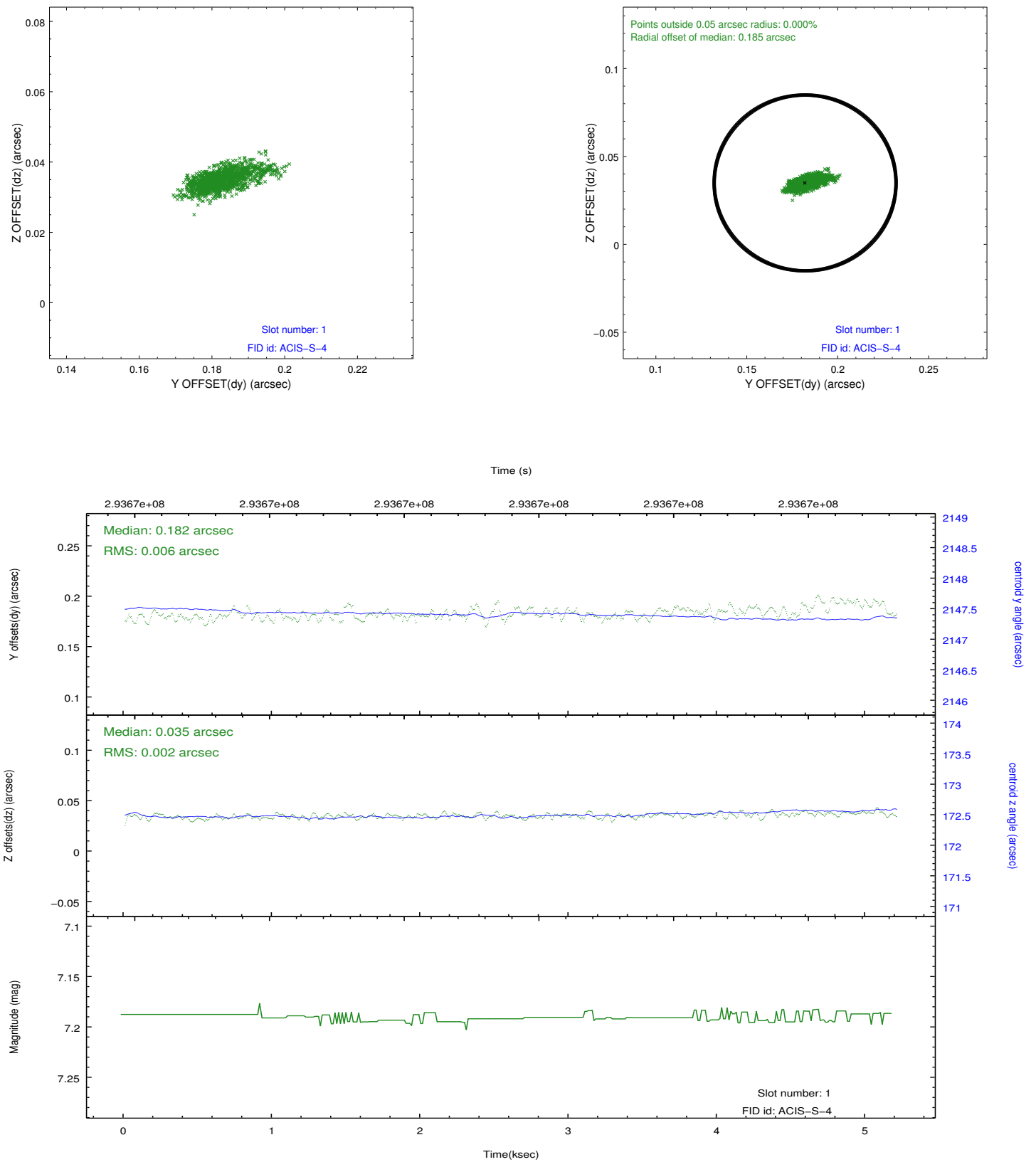


## 2.5 FID Slots

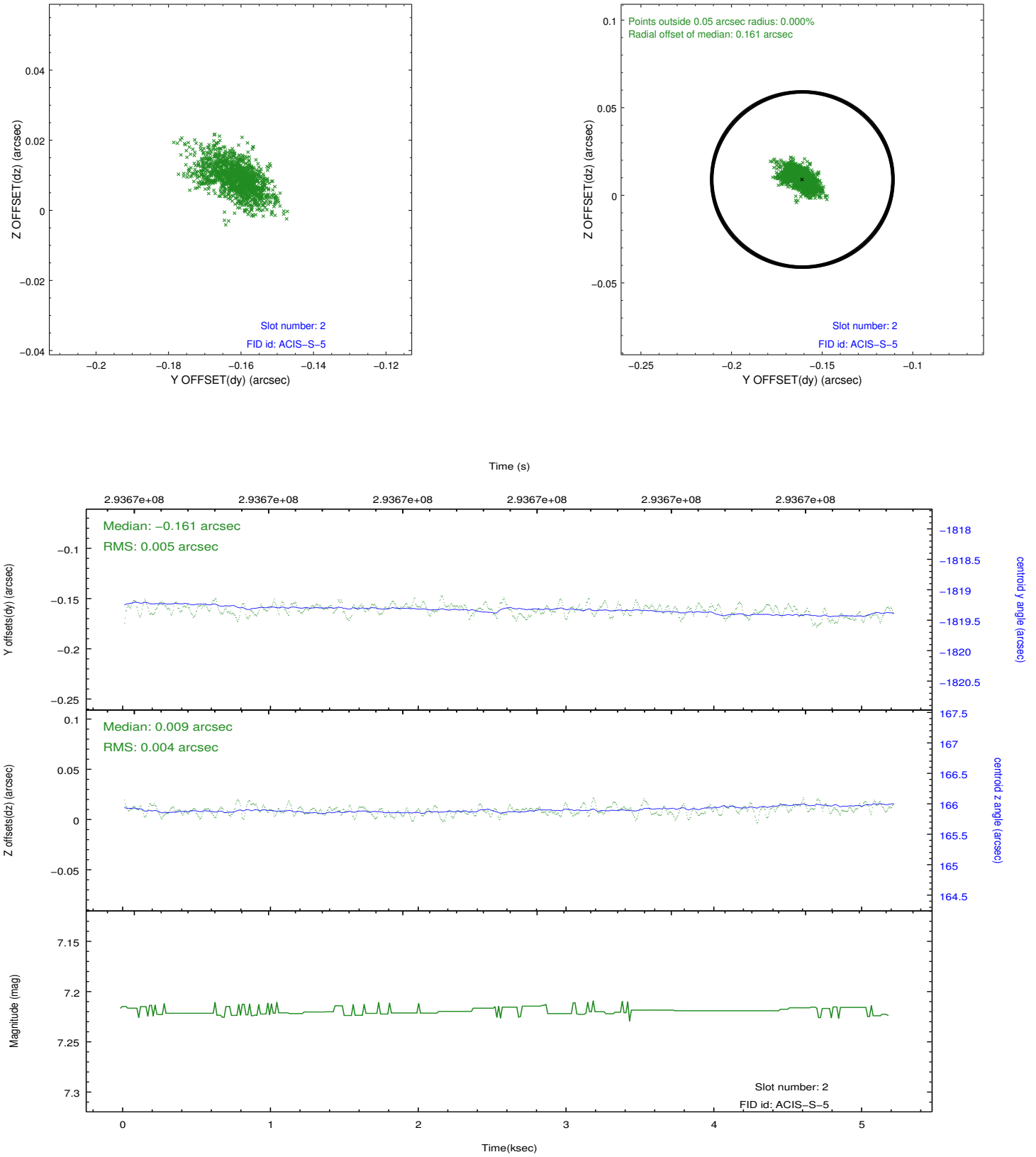
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.04639998

### A.2 Comments