

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13872 - L2 Version 1  
Chandra X-Ray Center

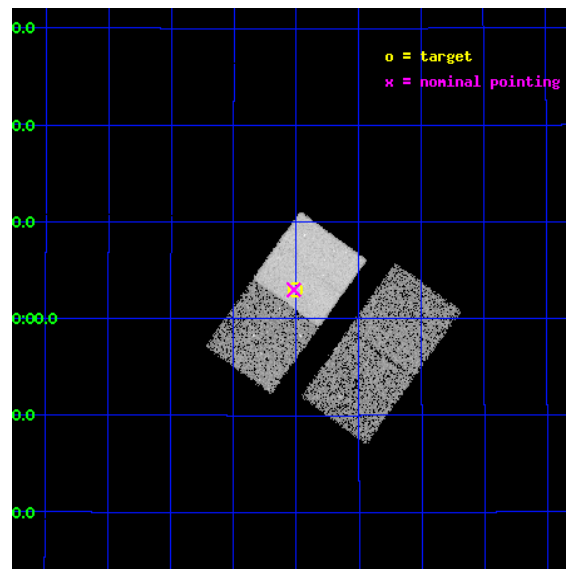
L2 Processing Date : Feb 26 2012

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# 1 Front

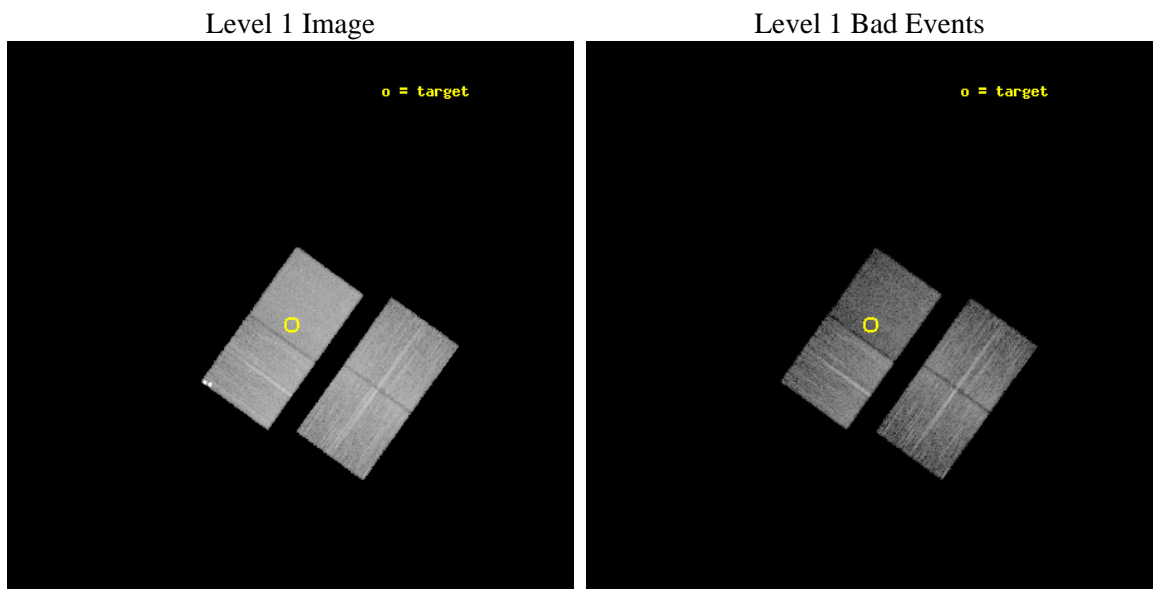
seq_num	702597	Sequence number
obs_id	13872	Observation id
title	Extending the Chandra 3C Snapshot Survey: Radio Galaxies with 0.3	Proposal title
observer	Dr. Francesco Massaro	Principal investigator
object	3c42	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	22.12625	Observer's specified target RA [deg]
dec_targ	29.049722	Observer's specified target Dec [deg]
ra_nom	22.12968223507	Nominal RA [deg]
dec_nom	29.049889563964	Nominal Dec [deg]
roll_nom	305.6277885584	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12073.033222377	Sum of GTIs [s]
livetime	11915.290155289	Livetime [s]
ontime2	12072.910102367	Sum of GTIs [s]
ontime3	12072.951142371	Sum of GTIs [s]
ontime6	12072.992182374	Sum of GTIs [s]
ontime7	12073.033222377	Sum of GTIs [s]
l2events	69697	Number of level 2 events



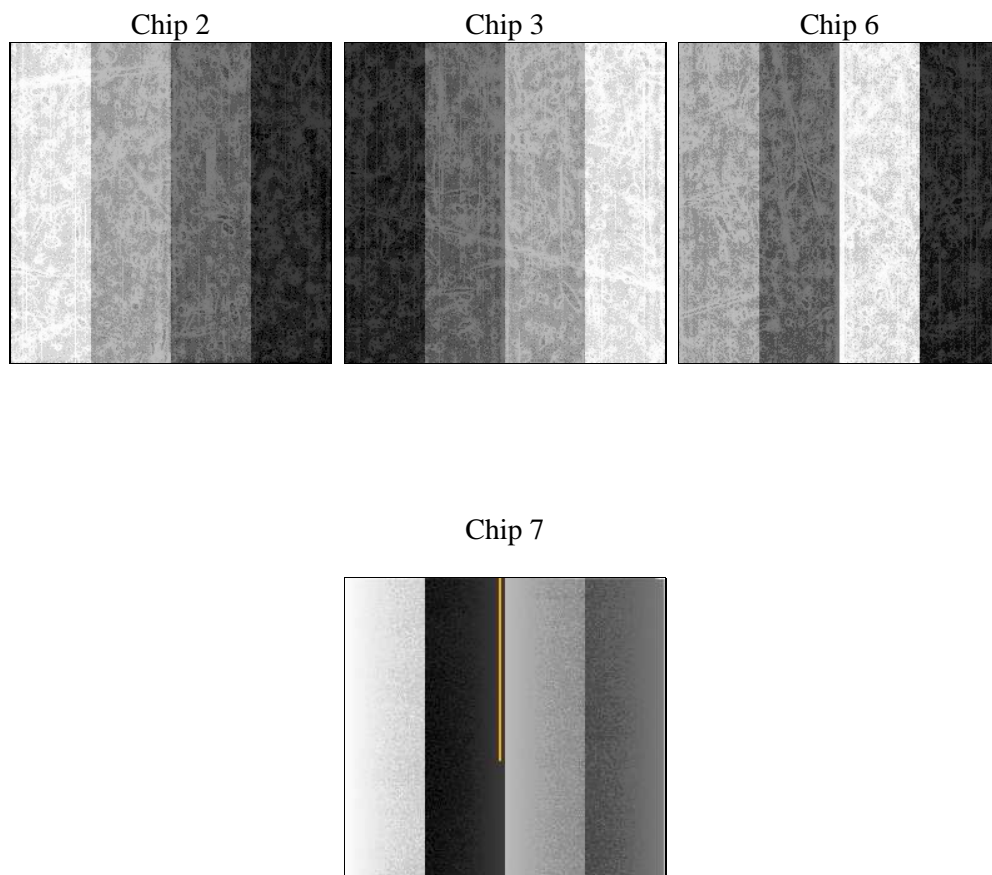
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	12073.033222377	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime2	12072.910102367	Sum of GTIs [s]
date	2012-02-26T18:29:24	Date and time of file creation	ontime3	12072.951142371	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	12072.992182374	Sum of GTIs [s]
			ontime7	12073.033222377	Sum of GTIs [s]
			l1events	404803	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	97392	93146	110930	103335
rejected events	84083	84737	91143	56096
rejected %	86%	90%	82%	54%

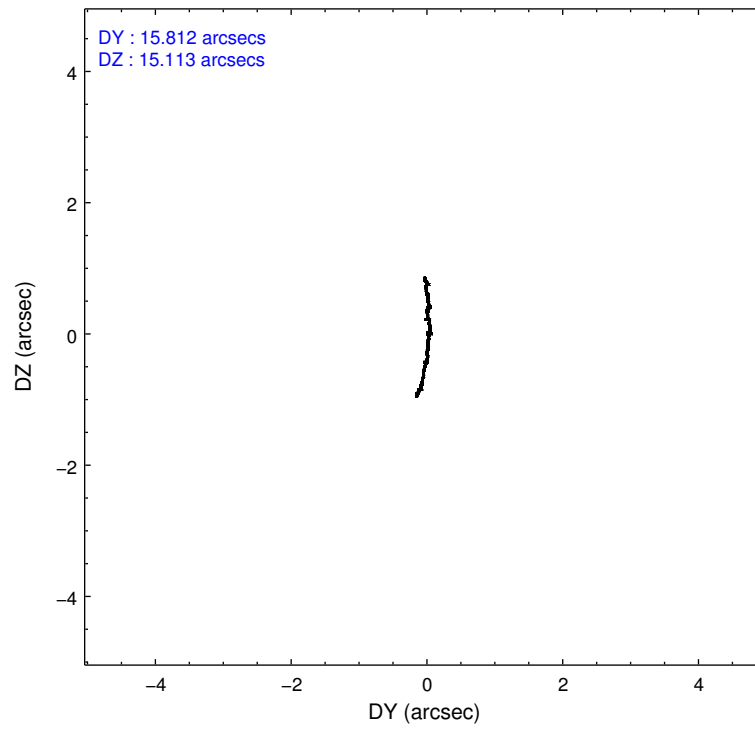
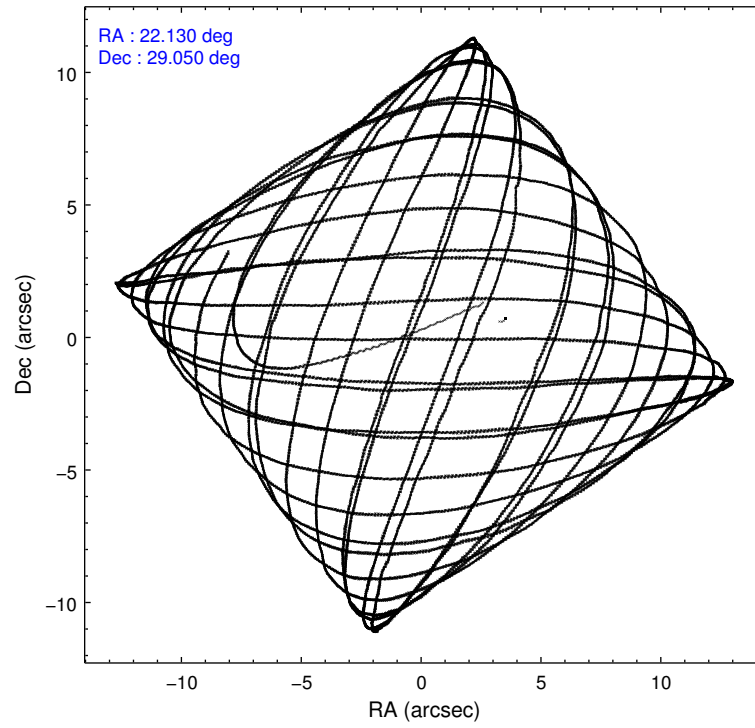
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	5434	3039	12526	4739
	5%	3%	11%	4%
grade 1 events	69	46	83	172
	0%	0%	0%	0%
grade 2 events	3724	1903	3280	10934
	3%	2%	2%	10%
grade 3 events	867	933	928	4157
	0%	1%	0%	4%
grade 4 events	1353	834	978	4277
	1%	0%	0%	4%
grade 5 events	3014	3568	3755	10426
	3%	3%	3%	10%
grade 6 events	1932	1703	2082	23142
	1%	1%	1%	22%
grade 7 events	80999	81120	87298	45488
	83%	87%	78%	44%

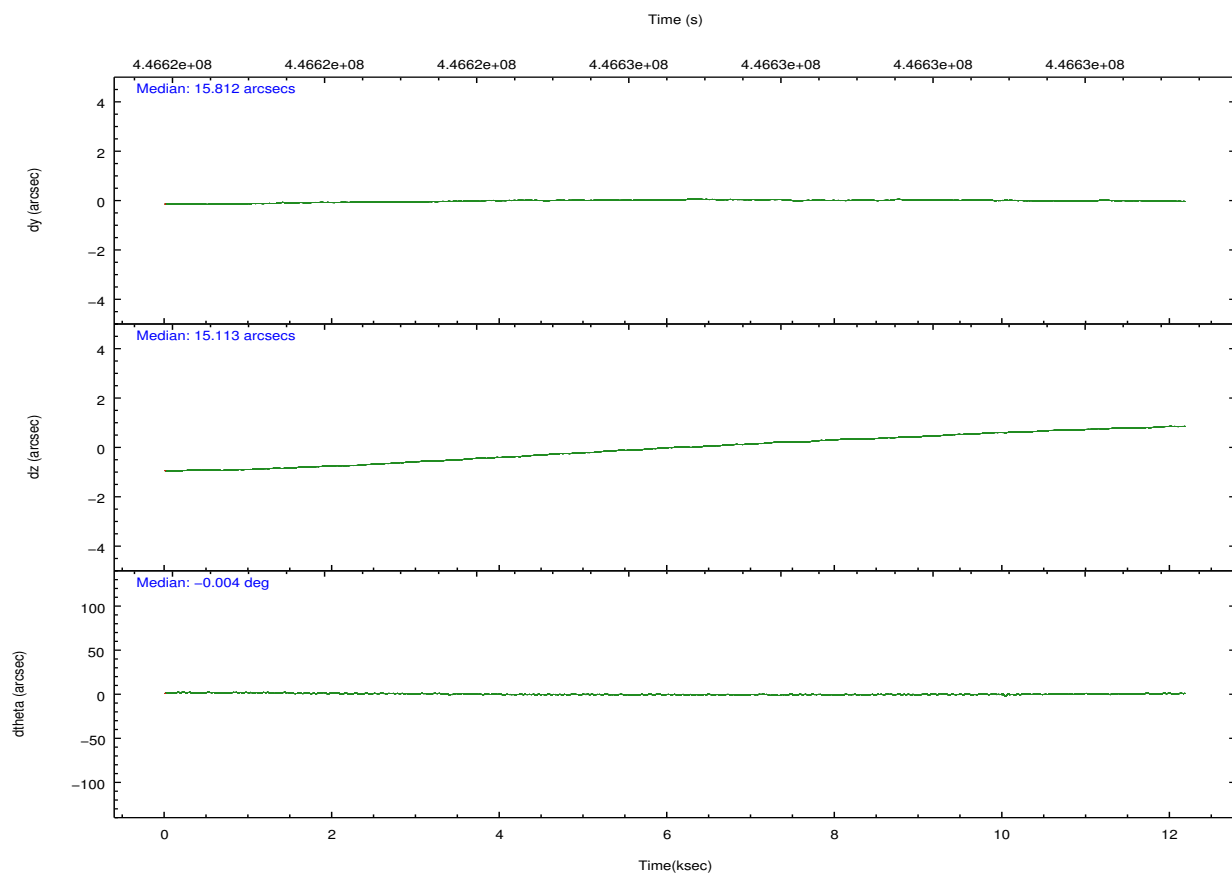
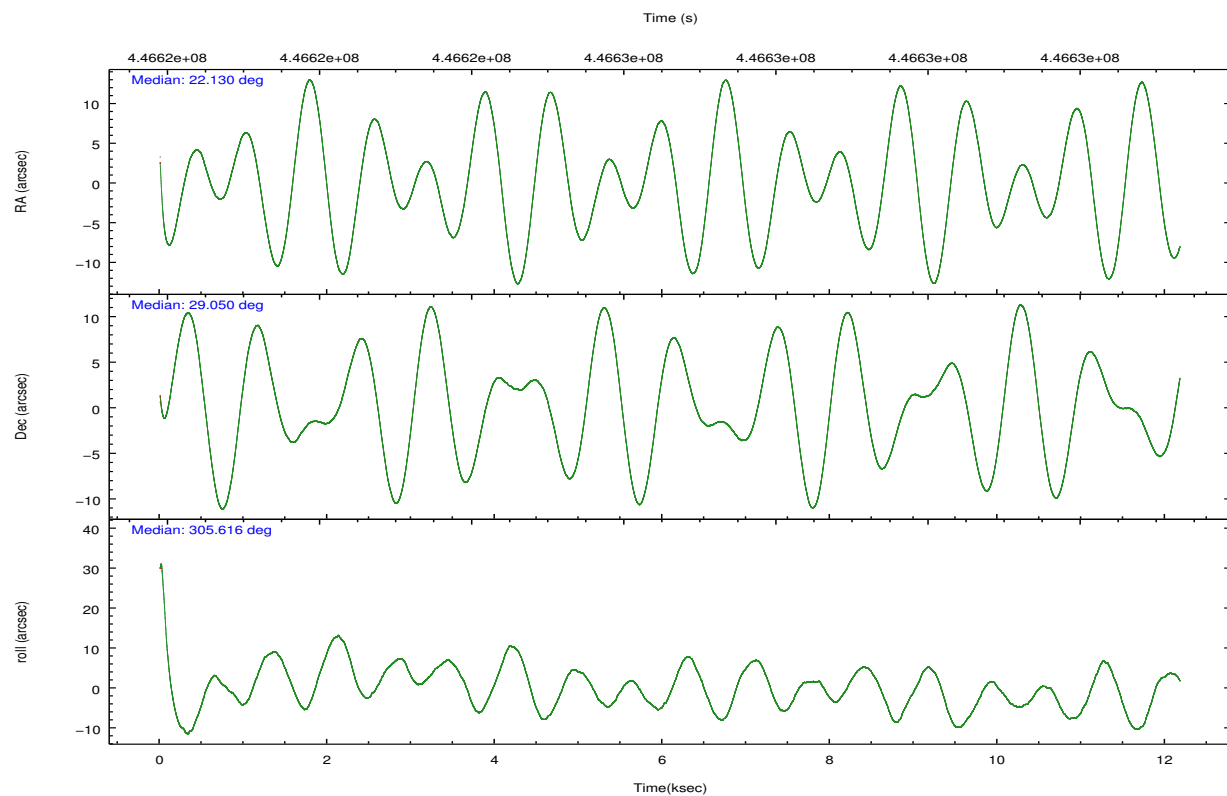


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	22.101040	22.12968223506972	CCD I2 on	O1	Y
[deg] Pointing Dec	29.060824	29.04988956396448	CCD I3 on	O2	Y
[deg] Pointing Roll	305.485041	305.6277885584028	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	446620698.184000	446619508.07772	CCD S5 on	N	N
Observation start date	2012-02-26T05:17:12	2012-02-26T04:58:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	446632698.184000	446633734.05347	On-chip summing requested	N	N
Observation end date	2012-02-26T08:37:12	2012-02-26T08:55:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



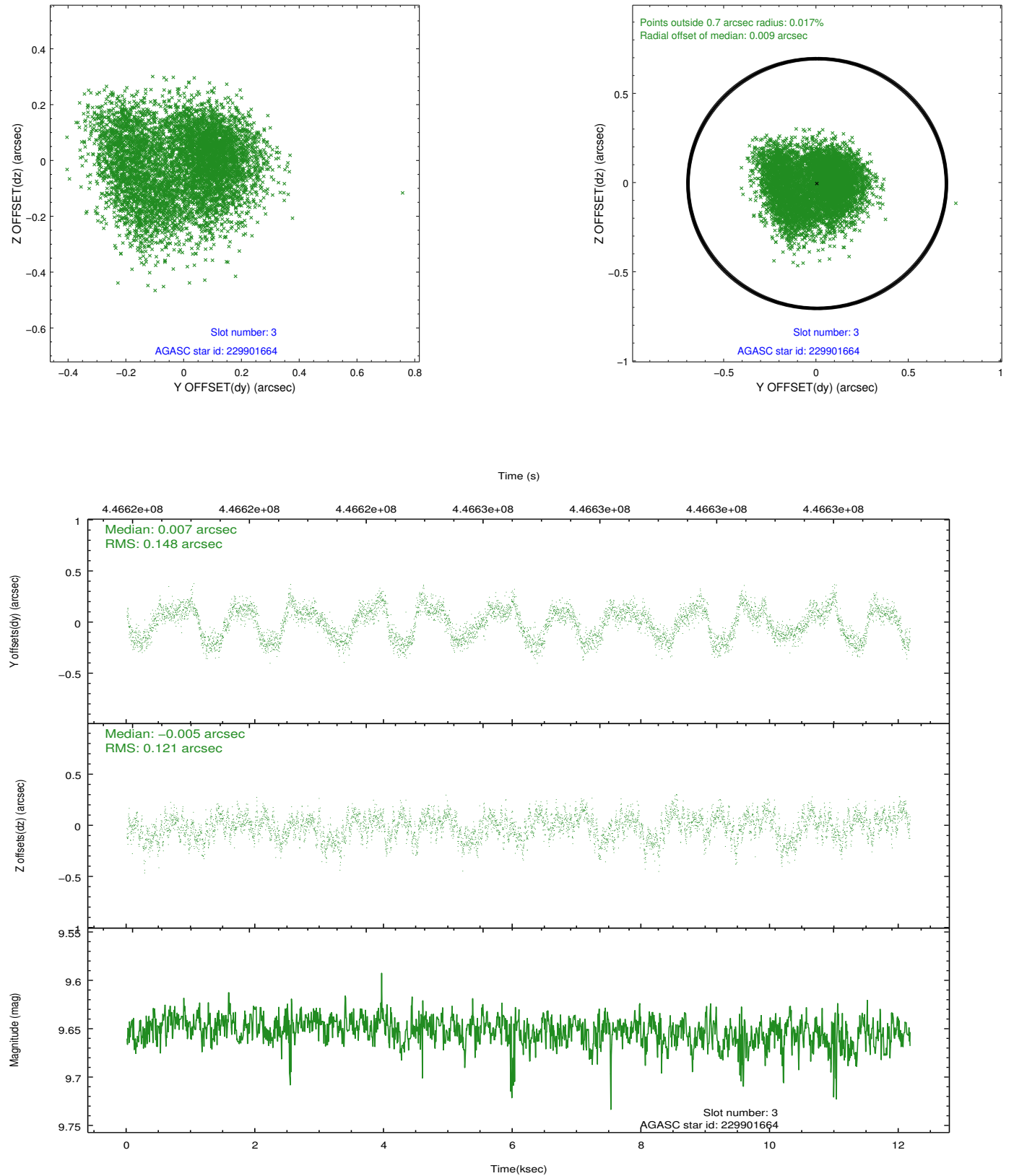


### Slot Statistics

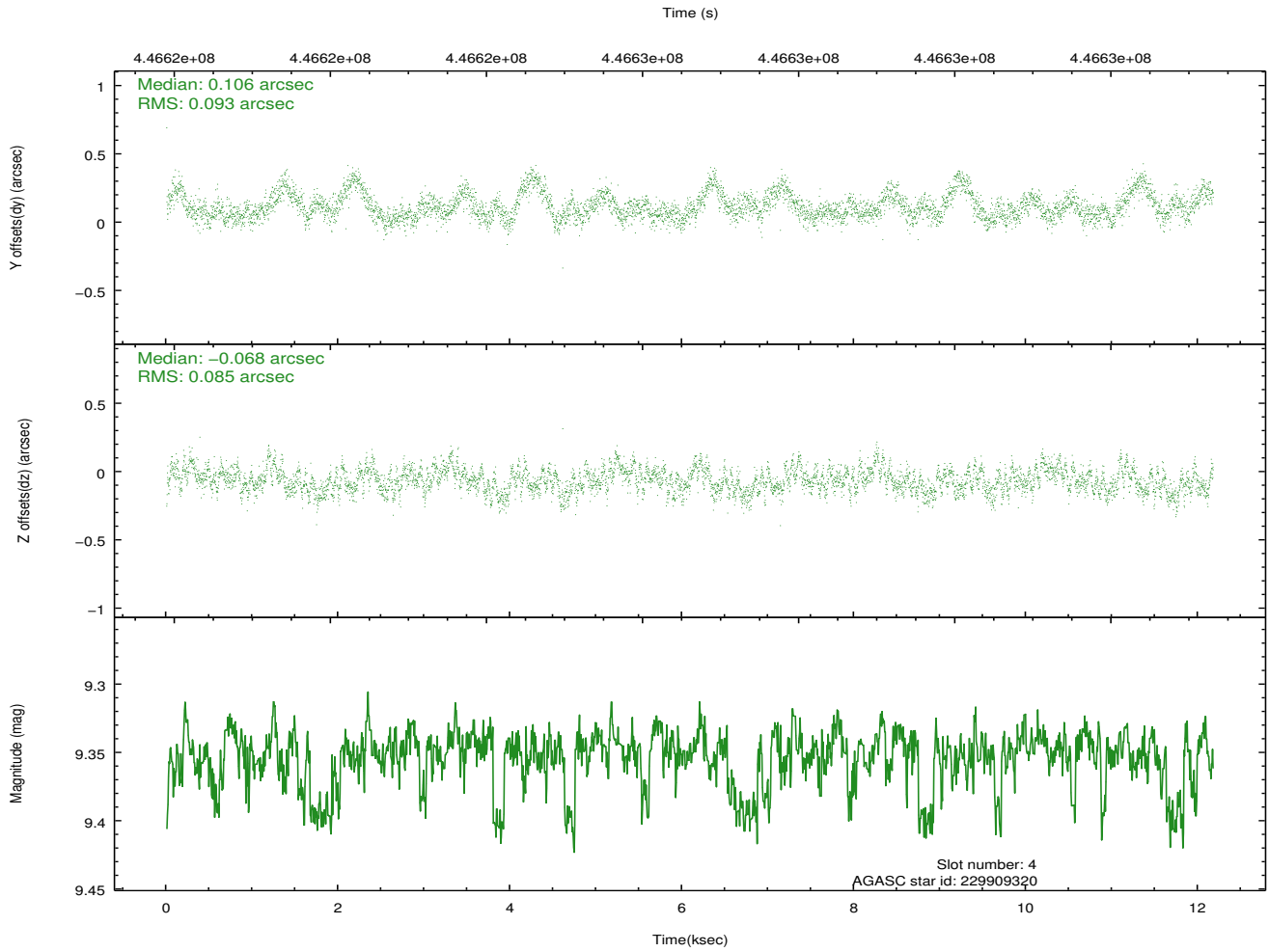
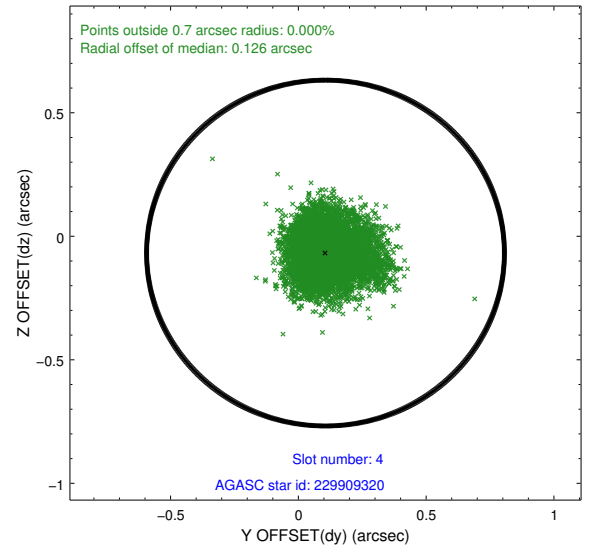
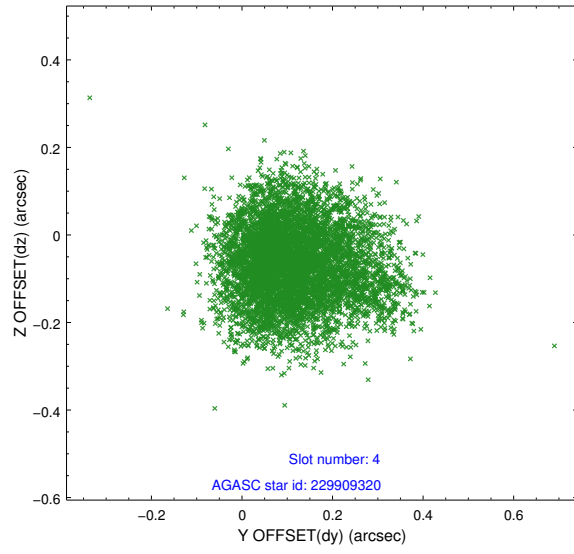
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.96	2970	-0.126	-0.022	0.013	0.028	0.000000	0.000000	-768.91	-1736.42
1	FID	ACIS-S-4	7.04	2970	0.246	0.068	0.006	0.011	0.000000	0.000000	2144.55	171.73
2	FID	ACIS-S-5	7.07	2970	-0.150	-0.037	0.012	0.027	0.000000	0.000000	-1821.25	165.77
3	GUIDE	229901664	9.65	5921	0.007	-0.005	0.211	0.306	21.690489	28.554869	728.60	-2112.91
4	GUIDE	229909320	9.35	5922	0.106	-0.068	0.134	0.216	22.018164	29.361958	-1033.18	417.34
5	GUIDE	230045048	8.52	5934	-0.137	0.115	0.112	0.167	22.372229	29.543388	-922.34	1700.02
6	GUIDE	230045648	9.16	5932	0.066	-0.025	0.109	0.174	22.530935	29.508767	-533.32	2034.57
7	GUIDE	230048464	9.43	5905	-0.046	-0.007	0.130	0.203	22.566563	28.944841	1189.00	954.13

## 2.4 Star Slots

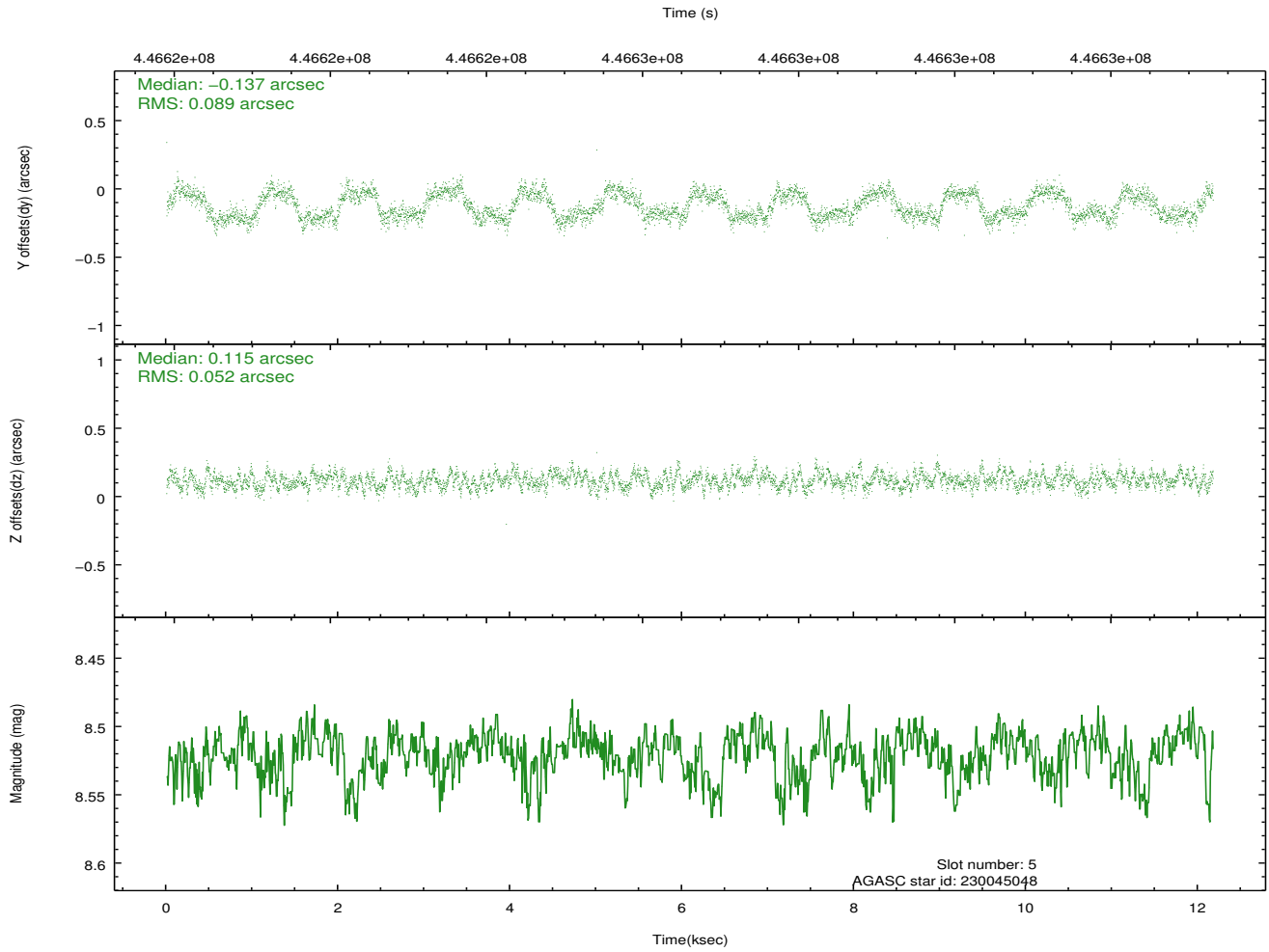
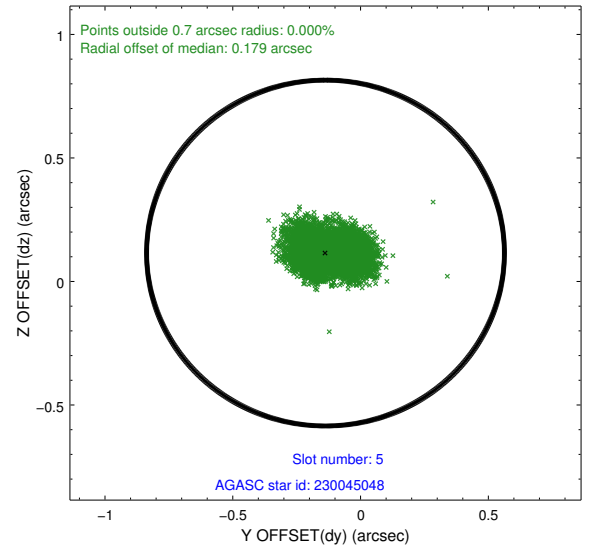
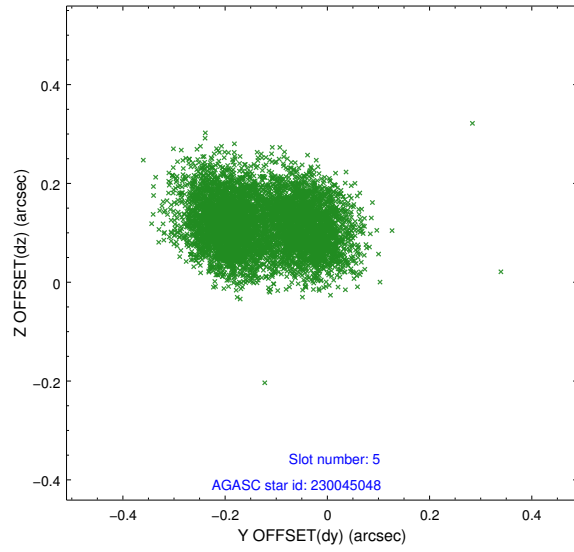
### 2.4.1 Slot 3



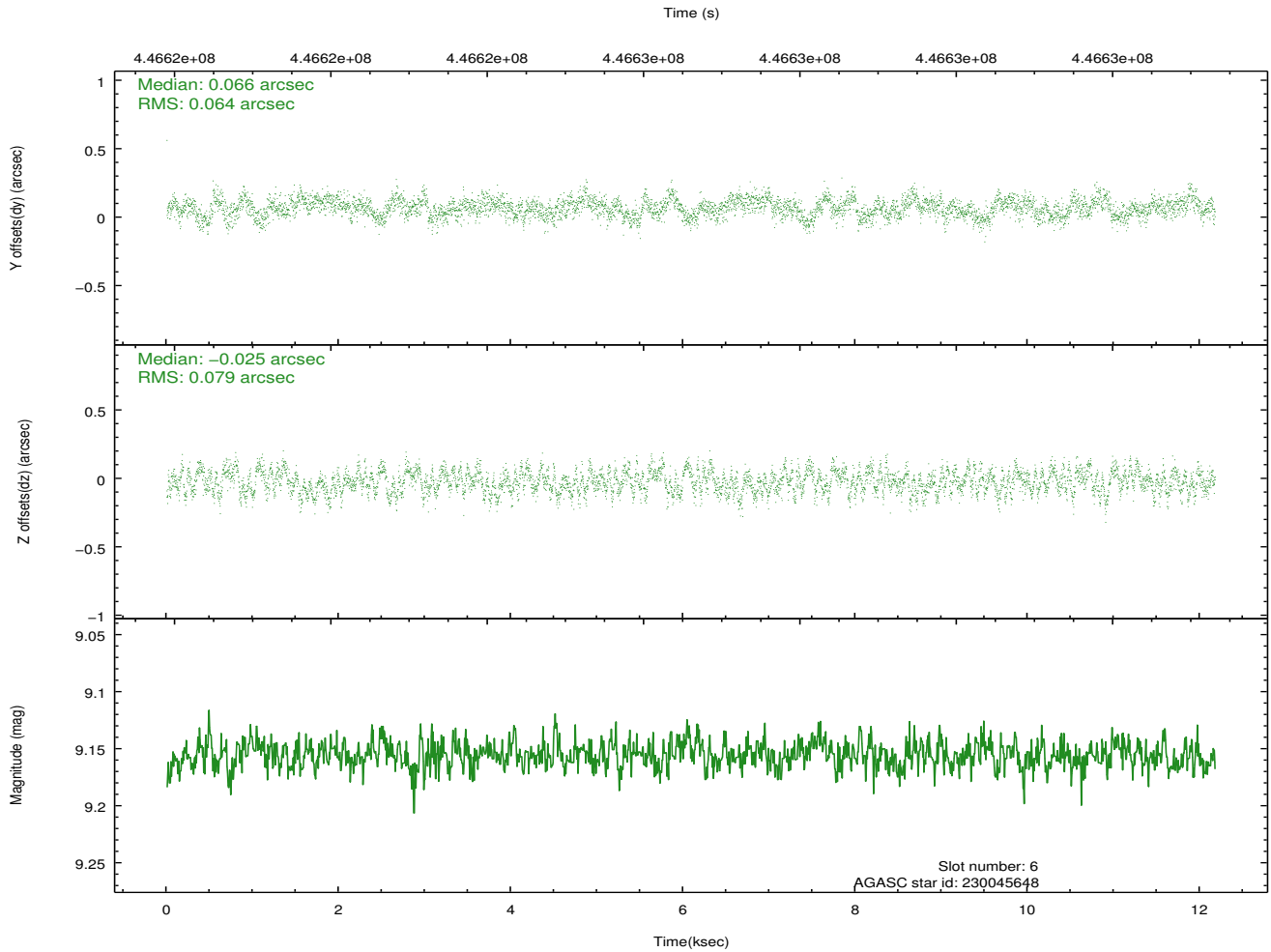
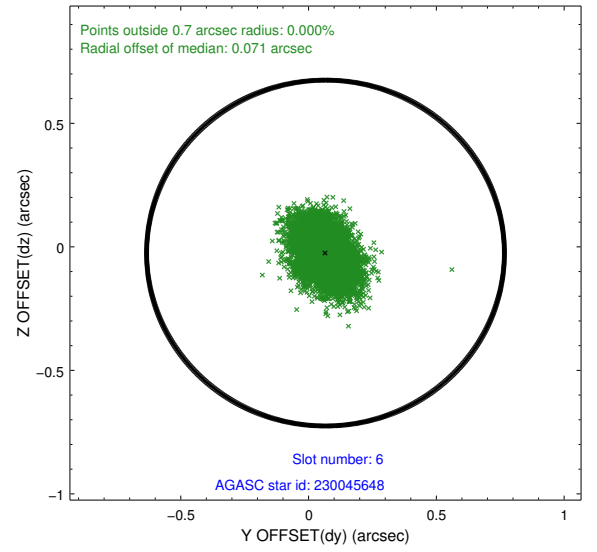
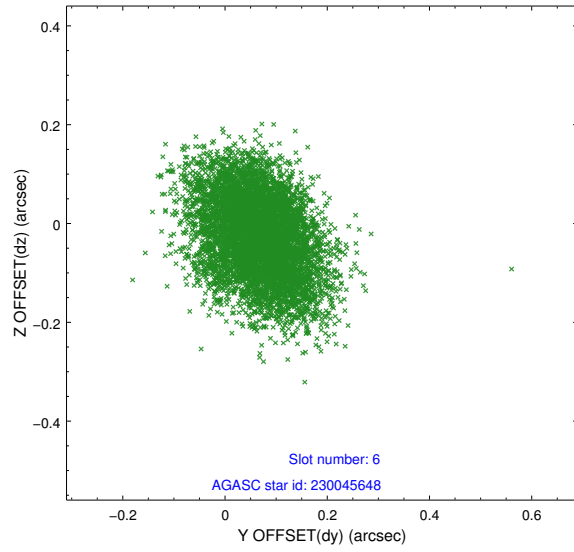
## 2.4.2 Slot 4



### 2.4.3 Slot 5

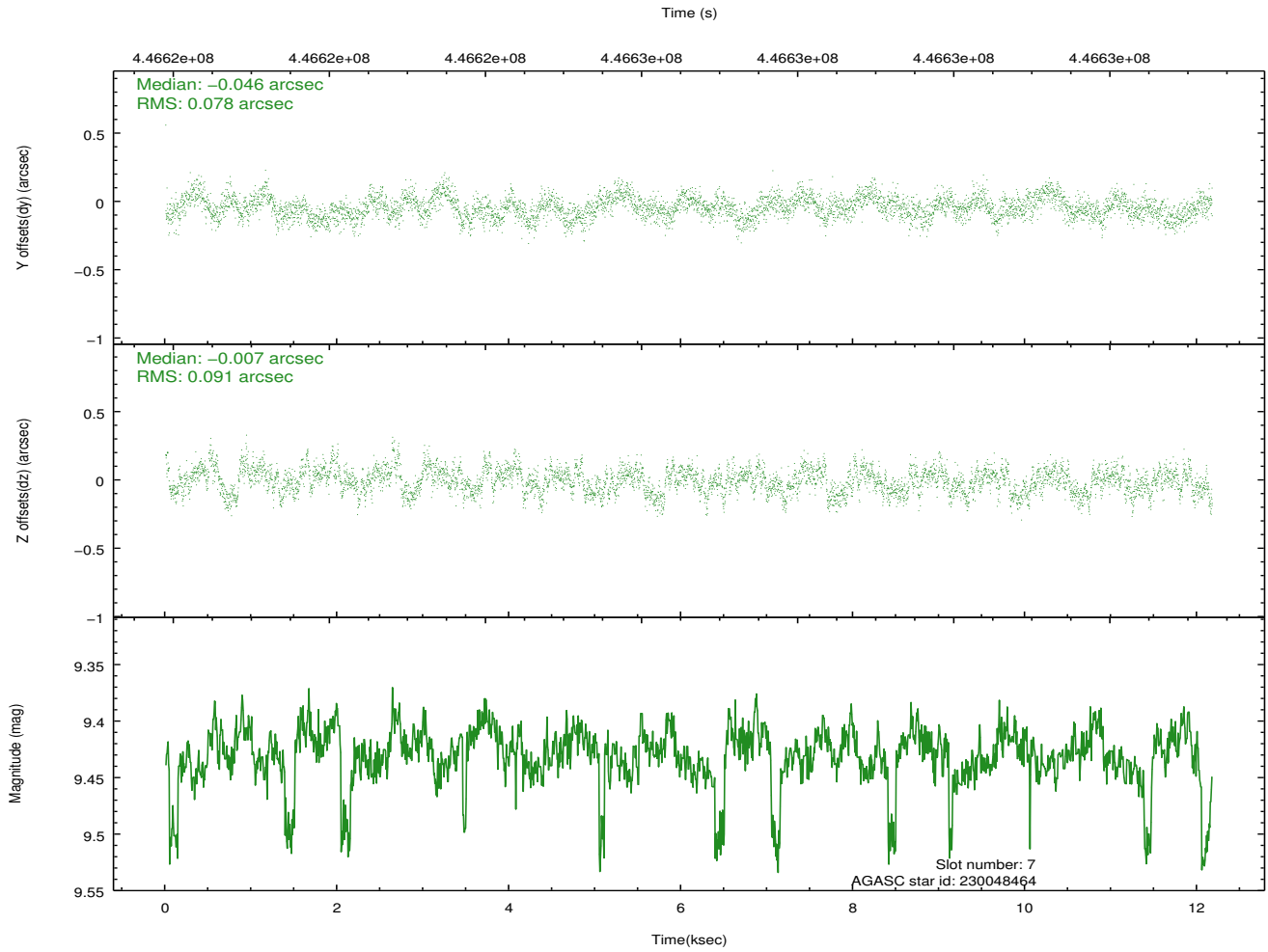
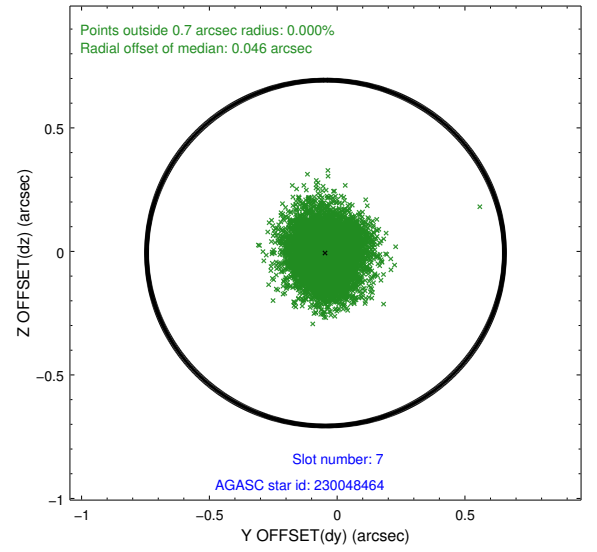
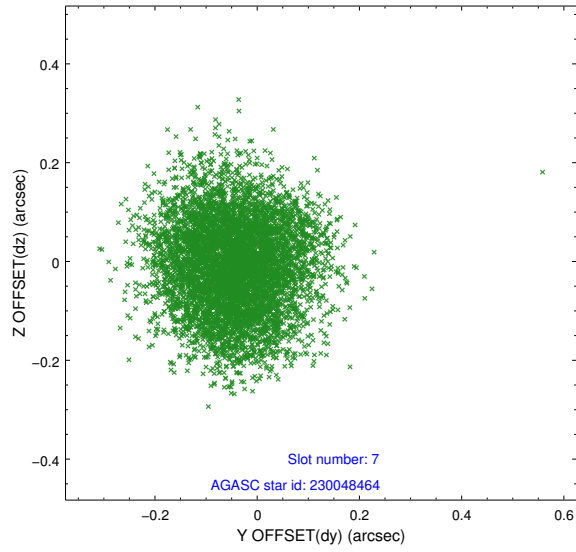


## 2.4.4 Slot 6



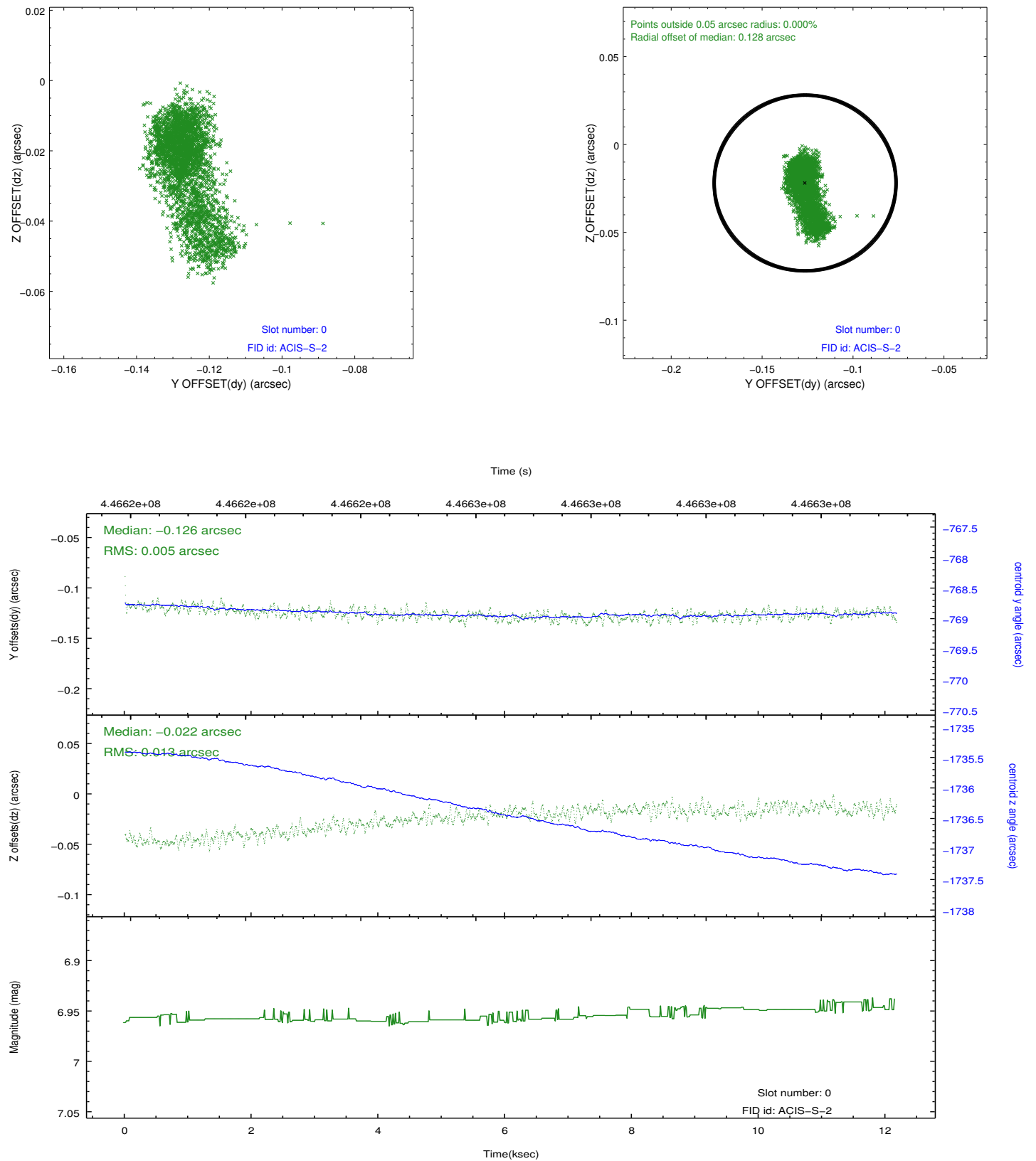


## 2.4.5 Slot 7

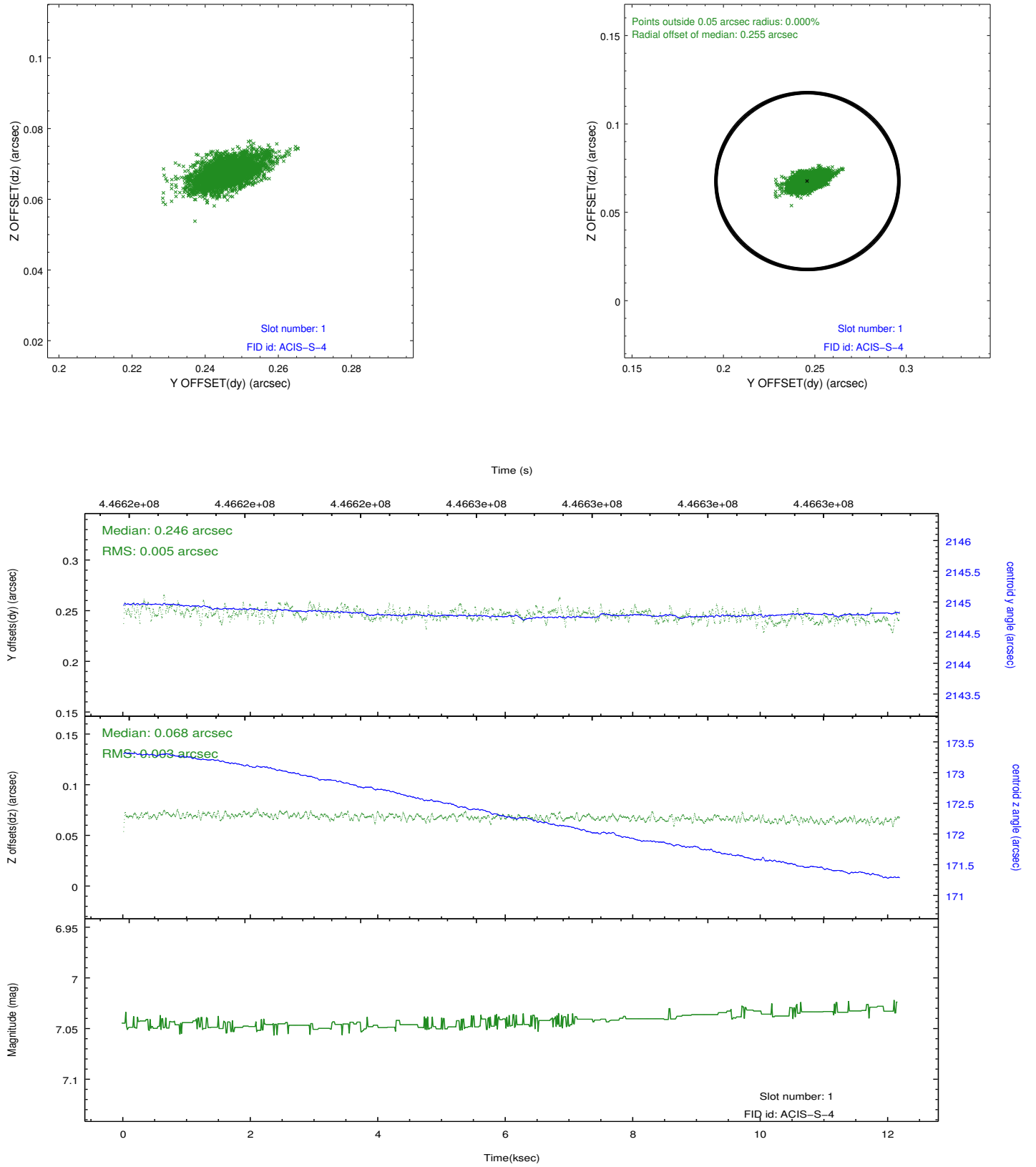


## 2.5 FID Slots

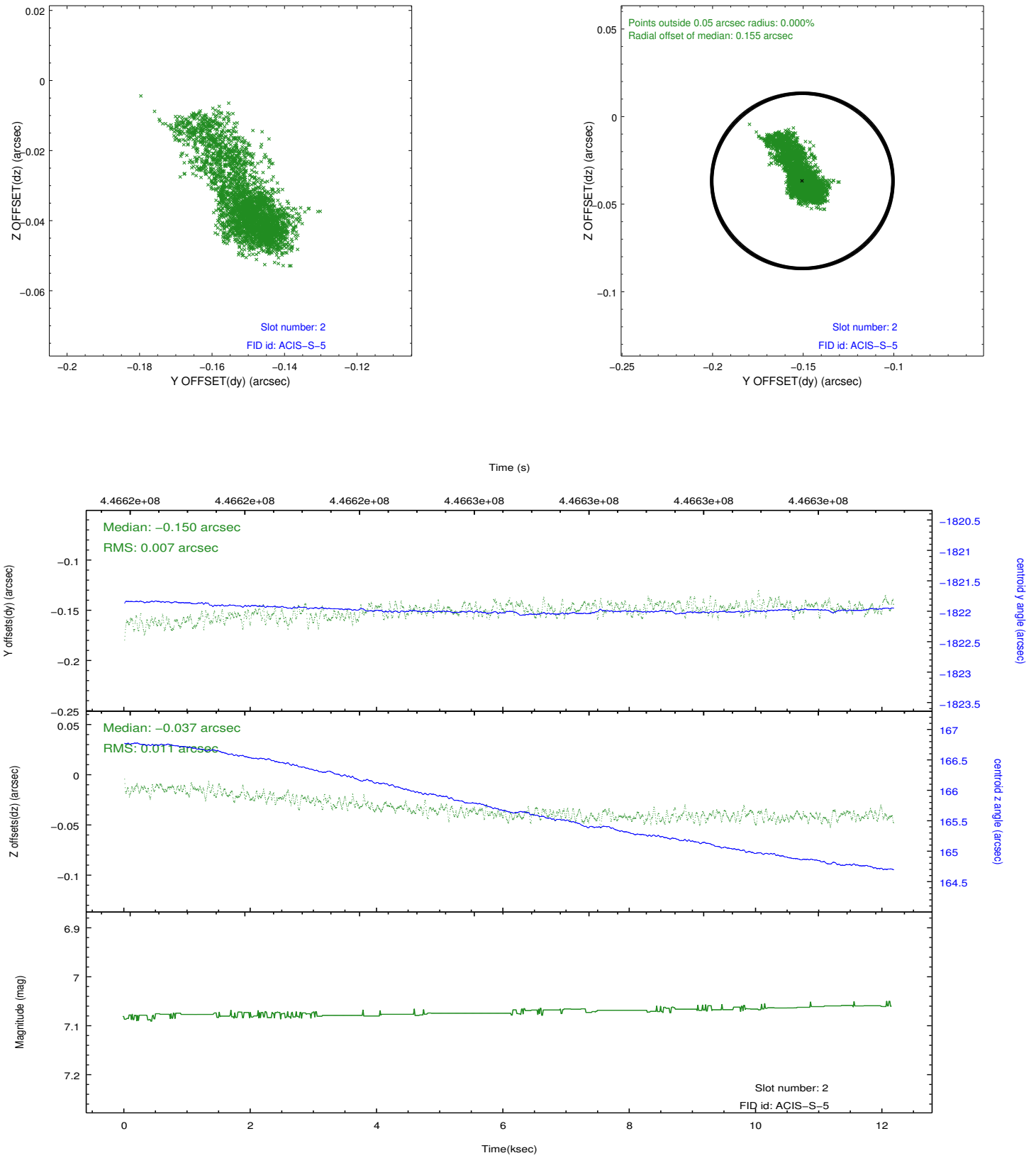
### 2.5.1 Slot 0



## 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)	2012.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.073033222377

### **A.2 Comments**