

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10513 - L2 Version 2  
Chandra X-Ray Center

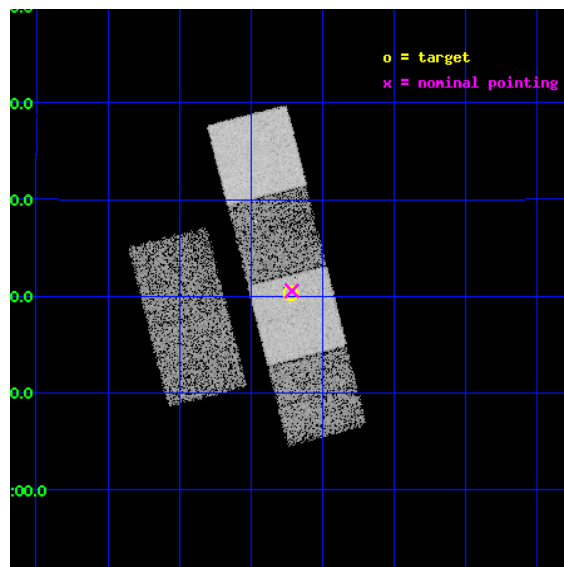
L2 Processing Date : May 31 2012

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# 1 Front

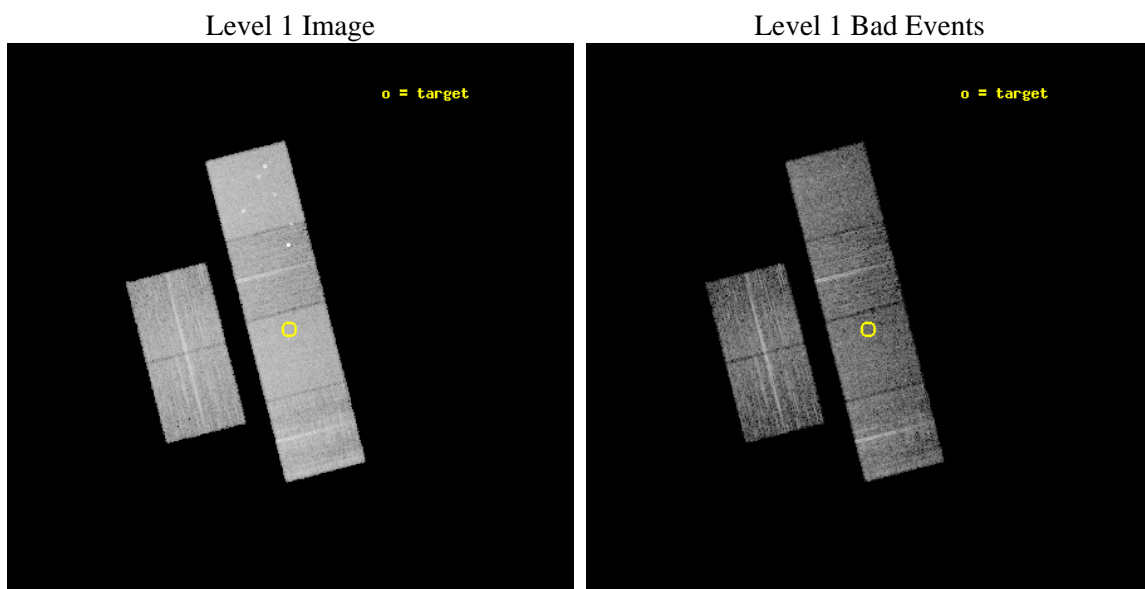
seq_num	900881	Sequence number
obs_id	10513	Observation id
title	ChIcAGO: Chandra Identification of ASCA Galactic Objects	Proposal
observer	Prof. Bryan Gaensler	Principal investigator
object	AX J185643+0220	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	284.18	Observer's specified target RA [deg]
dec_targ	2.338	Observer's specified target Dec [deg]
ra_nom	284.17855939225	Nominal RA [deg]
dec_nom	2.3425652856937	Nominal Dec [deg]
roll_nom	75.69169706616	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5721.599978745	Sum of GTIs [s]
livetime	5649.1496346802	Livetime [s]
ontime2	5721.599978745	Sum of GTIs [s]
ontime3	5721.599978745	Sum of GTIs [s]
ontime5	5721.599978745	Sum of GTIs [s]
ontime6	5721.599978745	Sum of GTIs [s]
ontime7	5721.599978745	Sum of GTIs [s]
ontime8	5721.599978745	Sum of GTIs [s]
l2events	98231	Number of level 2 events



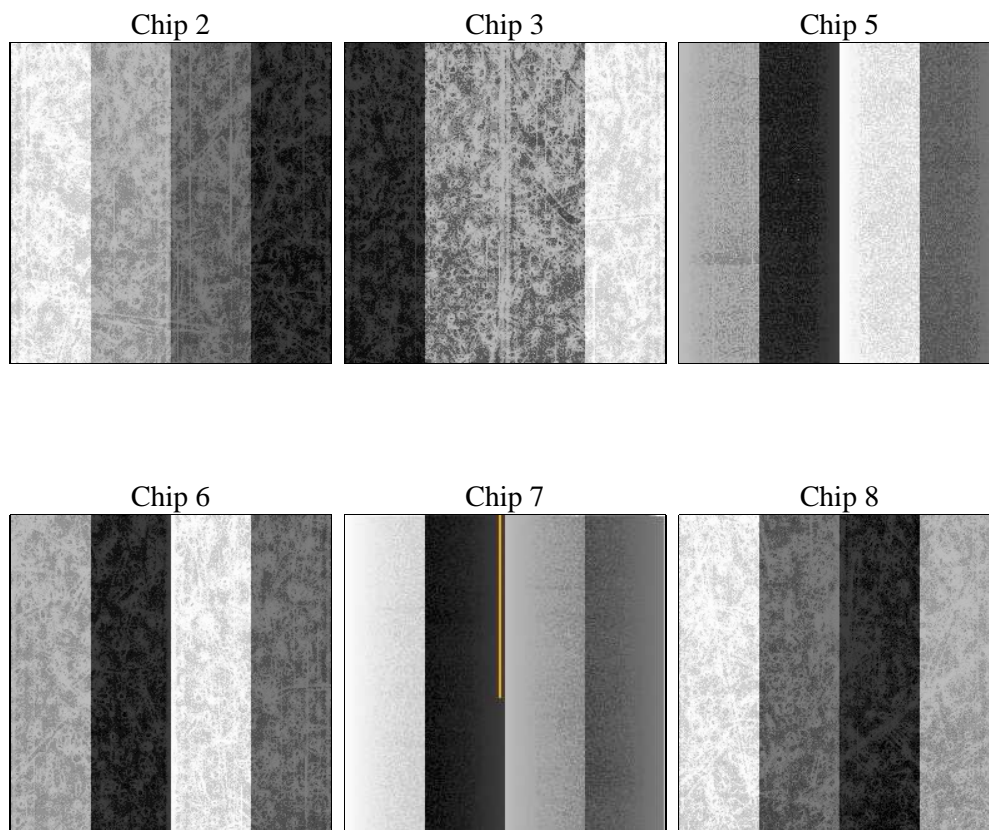
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5721.599978745	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	5721.599978745	Sum of GTIs [s]
date	2012-05-31T14:17:03	Date and time of file creation	ontime3	5721.599978745	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5721.599978745	Sum of GTIs [s]
			ontime6	5721.599978745	Sum of GTIs [s]
			ontime7	5721.599978745	Sum of GTIs [s]
			ontime8	5721.599978745	Sum of GTIs [s]
			l1events	449440	Number of level 1 events

### 2.1.4 Events

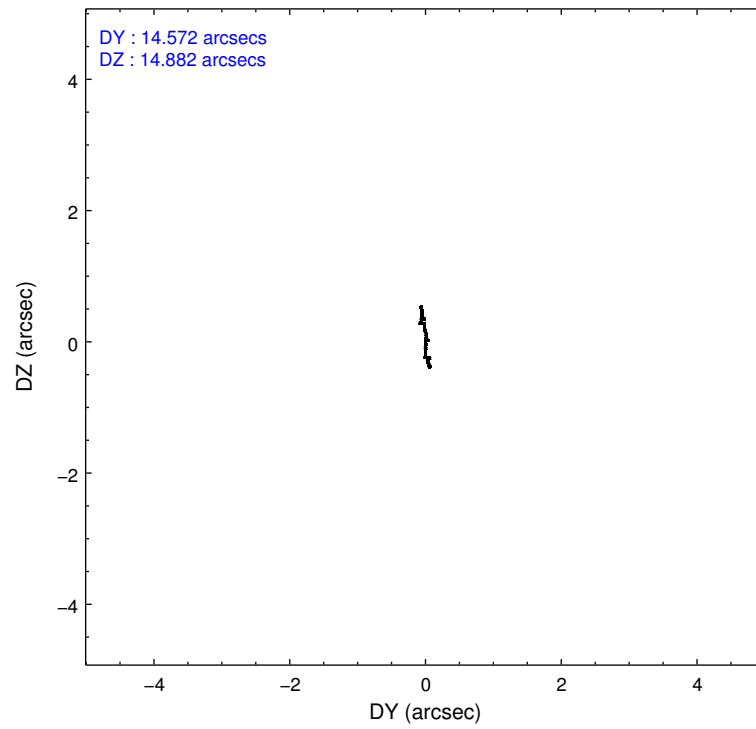
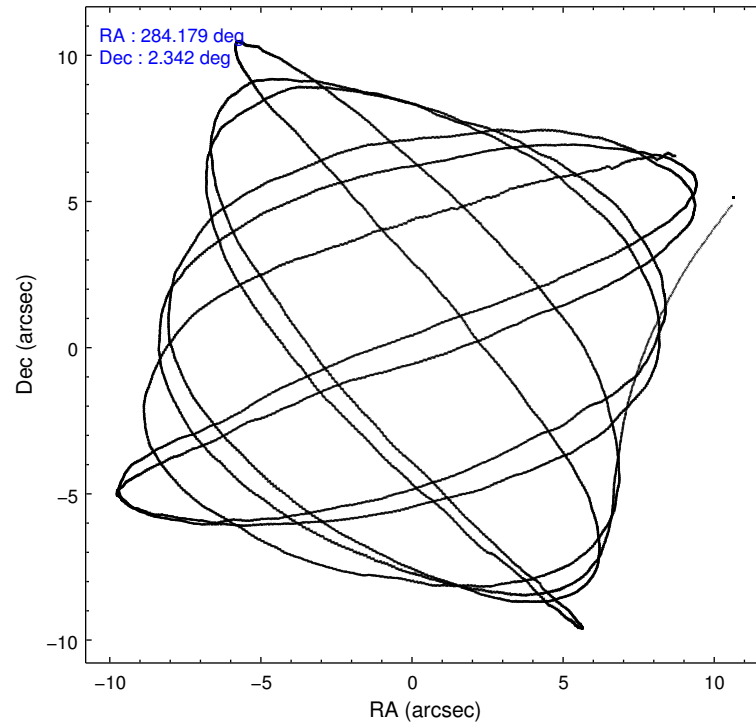
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	63124	59956	97266	61972	86866	80256	grade 0 events	3154	3239	4233	4942	3046	6286
rejected events	56130	53045	55287	52990	52995	62029		4%	5%	4%	7%	3%	7%
rejected %	88%	88%	56%	85%	61%	77%	grade 1 events	35	44	219	39	81	61
								0%	0%	0%	0%	0%	0%
							grade 2 events	1617	1412	13721	1690	7338	4255
								2%	2%	14%	2%	8%	5%
							grade 3 events	687	685	1522	729	2996	2027
								1%	1%	1%	1%	3%	2%
							grade 4 events	742	706	1433	657	3042	1874
								1%	1%	1%	1%	3%	2%
							grade 5 events	2626	2965	6907	3004	7965	4010
								4%	4%	7%	4%	9%	4%
							grade 6 events	1271	1315	23785	1550	19667	4923
								2%	2%	24%	2%	22%	6%
							grade 7 events	52992	49590	45446	49361	42731	56820
								83%	82%	46%	79%	49%	70%

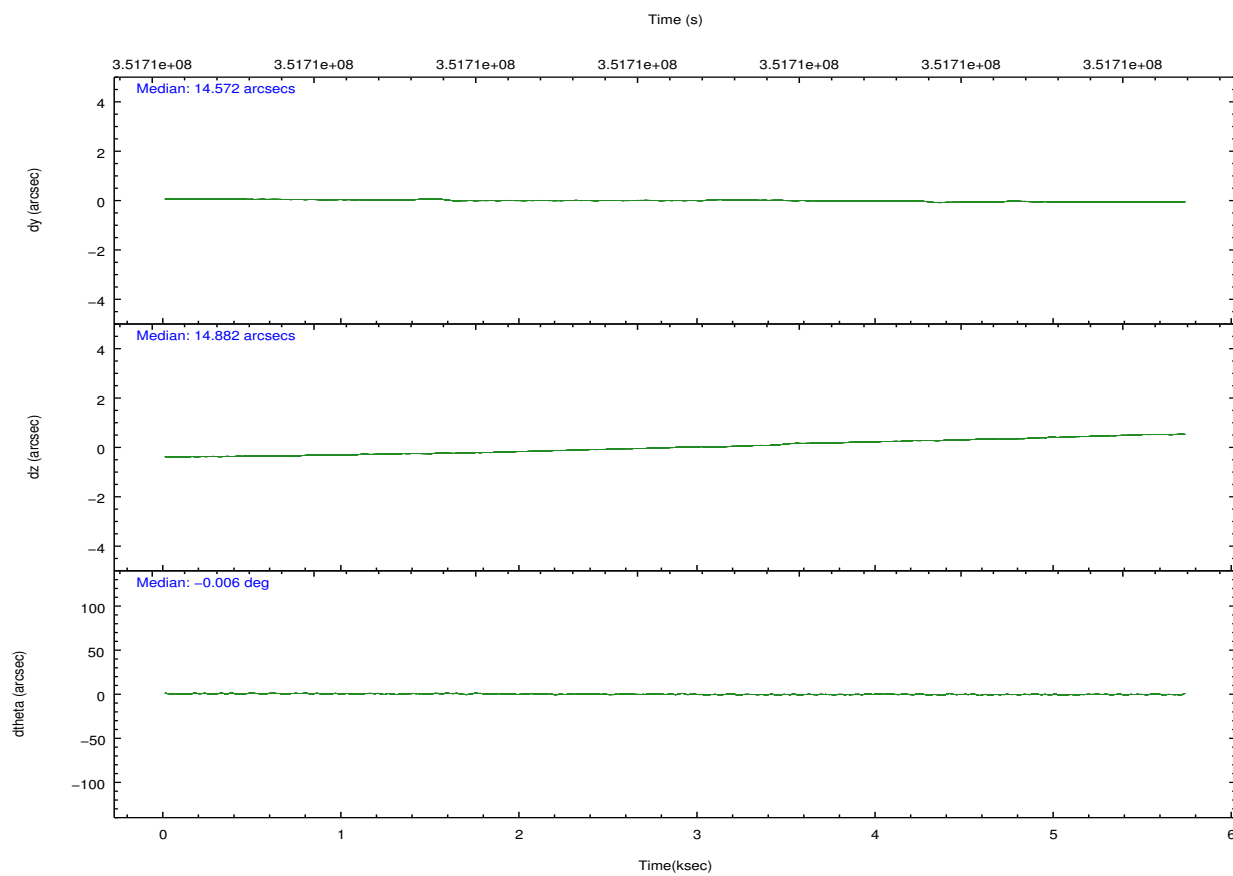
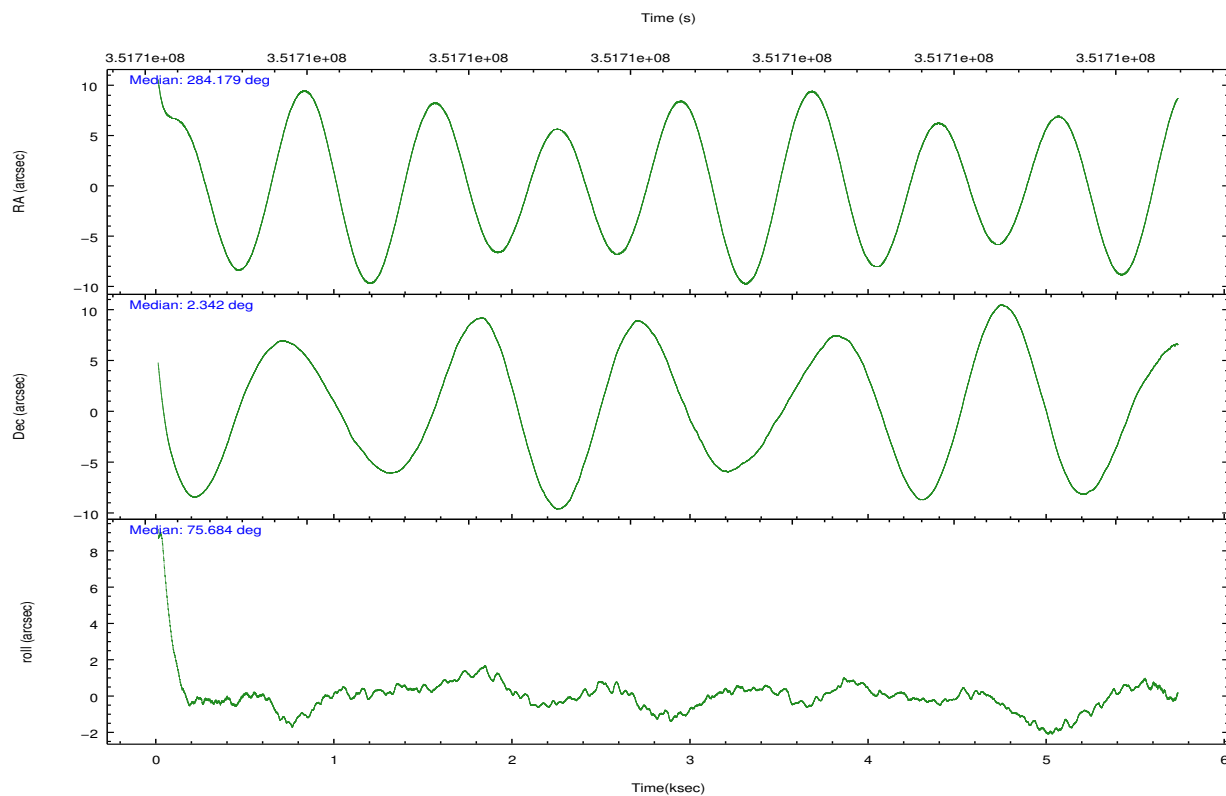


## 2.2 Compared Parameters

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	284.186315	284.1785593922515	CCD I2 on	O2	Y
[deg] Pointing Dec	2.316409	2.34256528569369	CCD I3 on	O3	Y
[deg] Pointing Roll	75.534757	75.6916970661603	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O4	Y
[s] Observation start time (MET)	351706509.184000	351705283.31056	CCD S5 on	N	N
Observation start date	2009-02-22T16:14:03	2009-02-22T15:54:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	351712109.184000	351713623.22348	On-chip summing requested	N	N
Observation end date	2009-02-22T17:47:23	2009-02-22T18:13:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



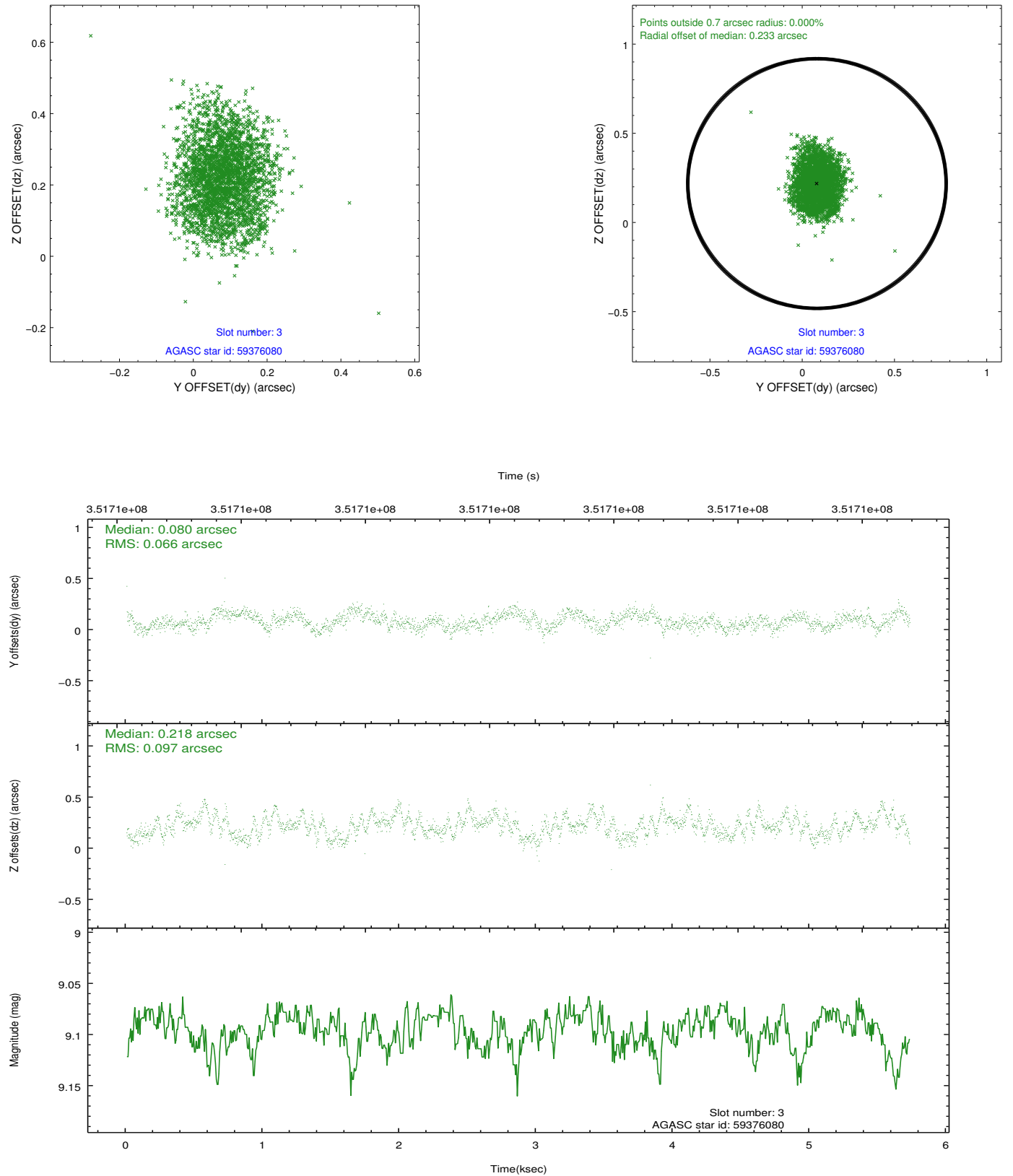


### Slot Statistics

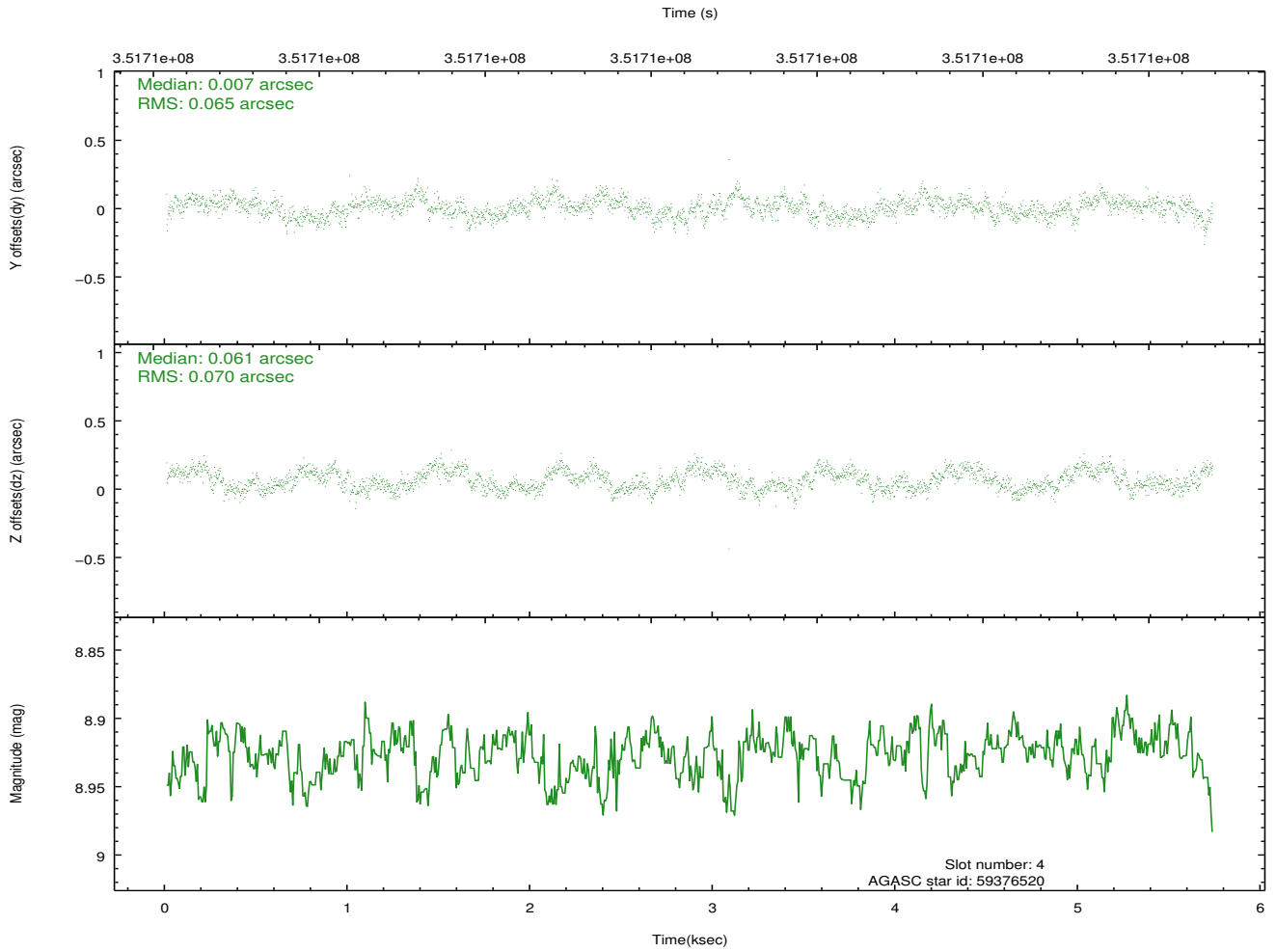
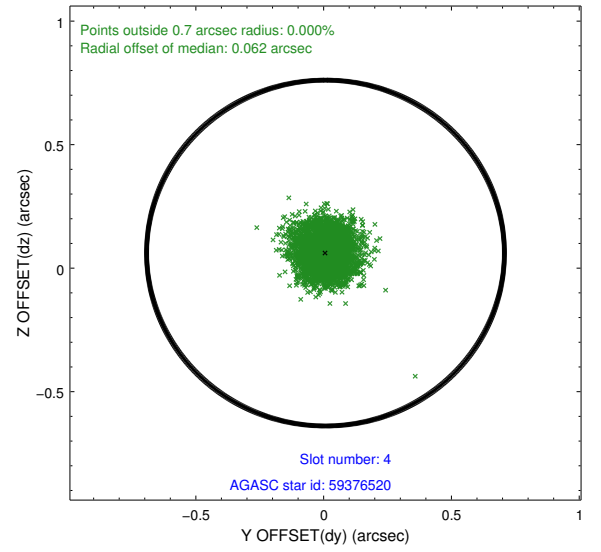
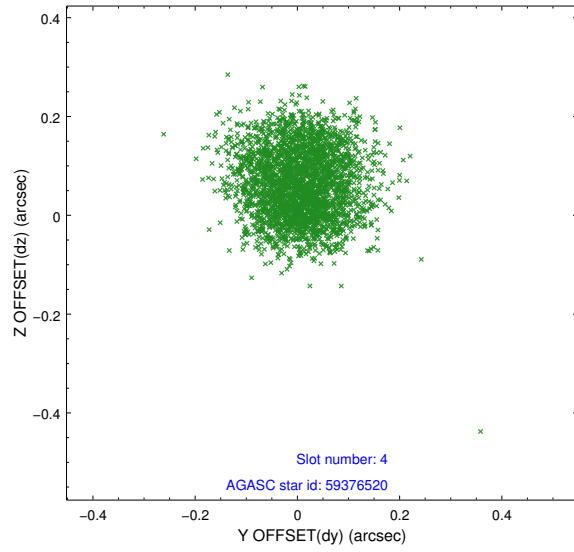
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.01	1397	0.015	-0.010	0.012	0.025	0.000000	0.000000	928.52	-1731.87
1	FID	ACIS-S-4	7.02	1397	0.145	0.005	0.010	0.017	0.000000	0.000000	2146.63	171.24
2	FID	ACIS-S-5	7.05	1397	-0.186	0.018	0.007	0.012	0.000000	0.000000	-1819.22	166.00
3	GUIDE	59376080	9.10	2794	0.080	0.218	0.127	0.197	284.651749	1.918668	-967.21	-1978.71
4	GUIDE	59376520	8.93	2793	0.007	0.061	0.103	0.156	284.649079	2.608986	1436.11	-1348.38
5	GUIDE	59376552	7.07	2795	-0.269	-0.056	0.043	0.070	284.421699	2.701942	1556.11	-472.85
6	GUIDE	59377960	7.64	2795	0.114	-0.077	0.073	0.118	283.627467	1.897490	-1961.96	1570.13
7	GUIDE	59376240	7.25	2794	0.062	-0.153	0.064	0.103	283.651753	1.887471	-1975.86	1477.34

## 2.4 Star Slots

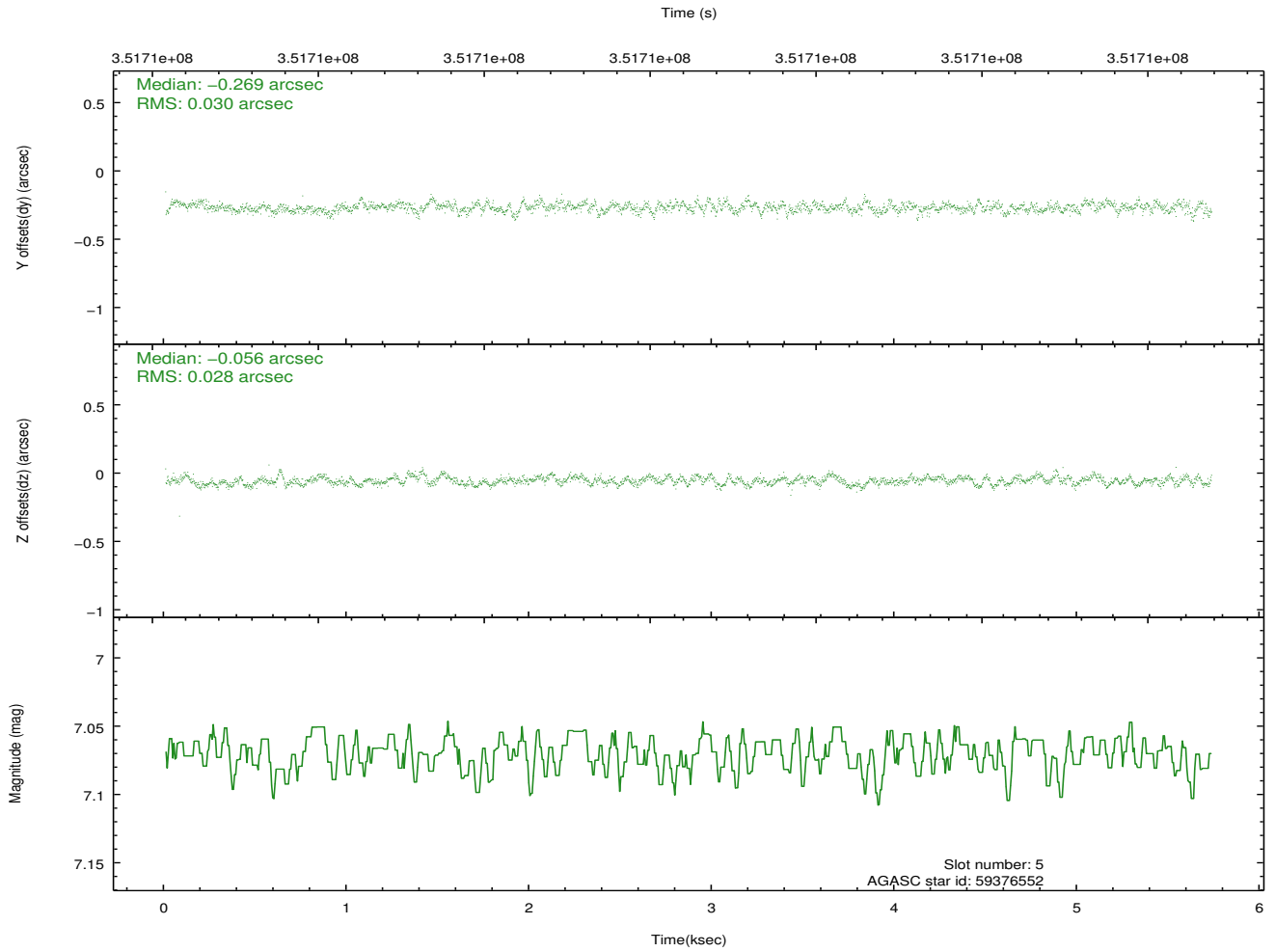
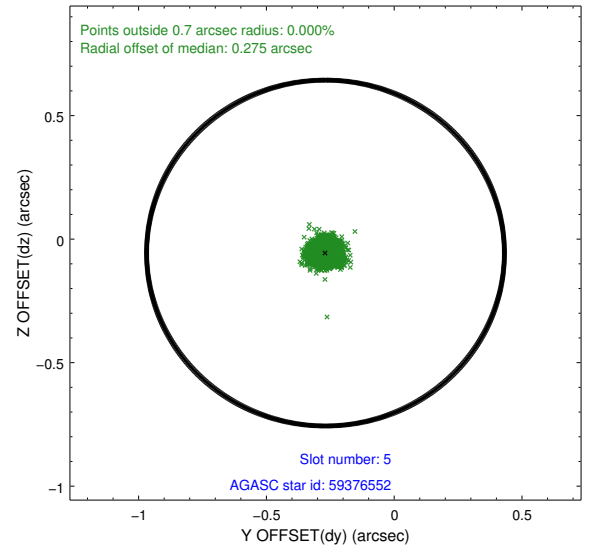
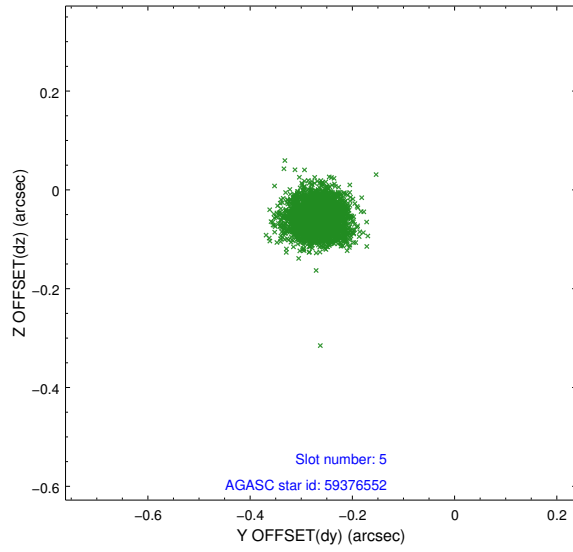
### 2.4.1 Slot 3



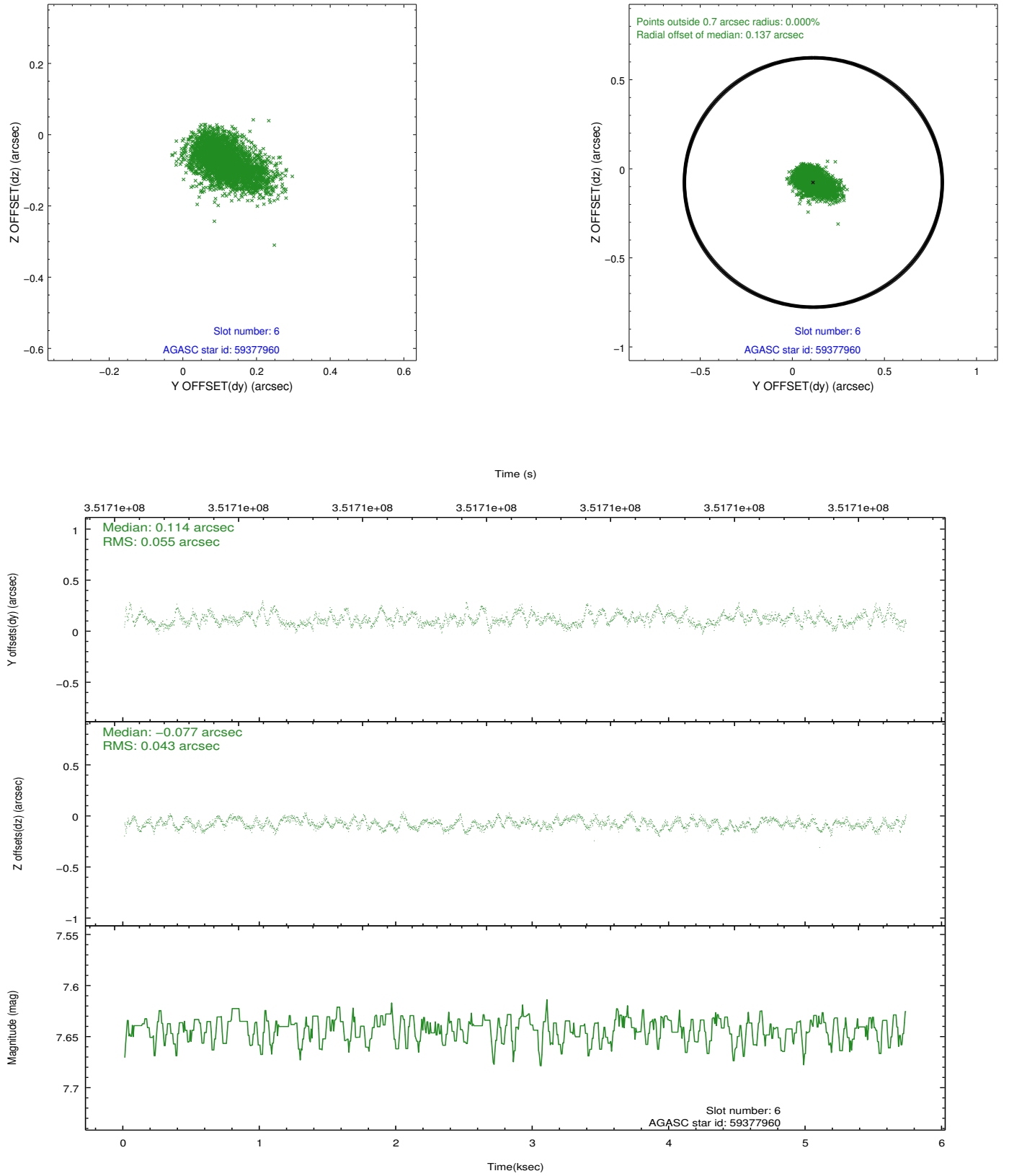
## 2.4.2 Slot 4



### 2.4.3 Slot 5

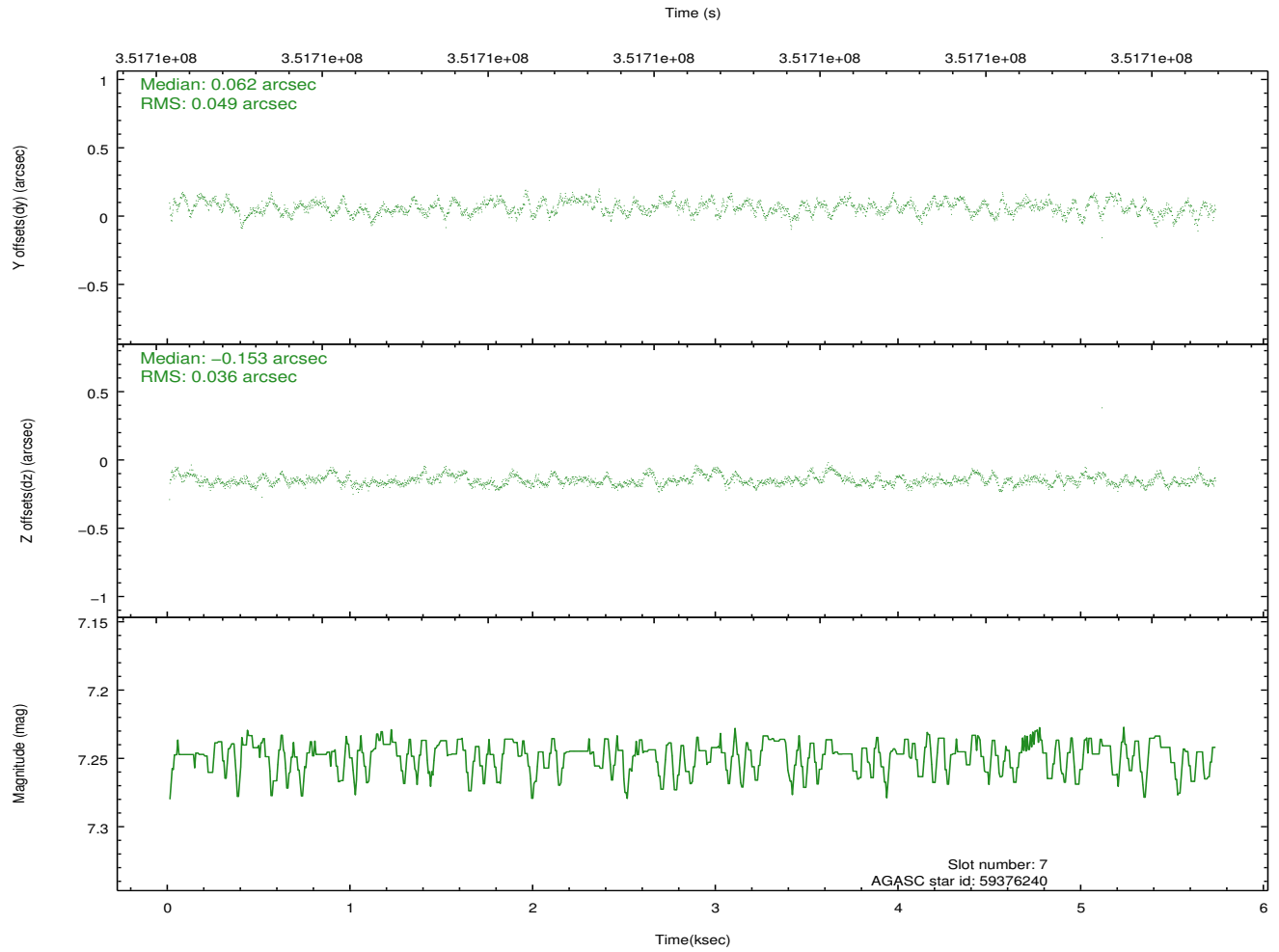
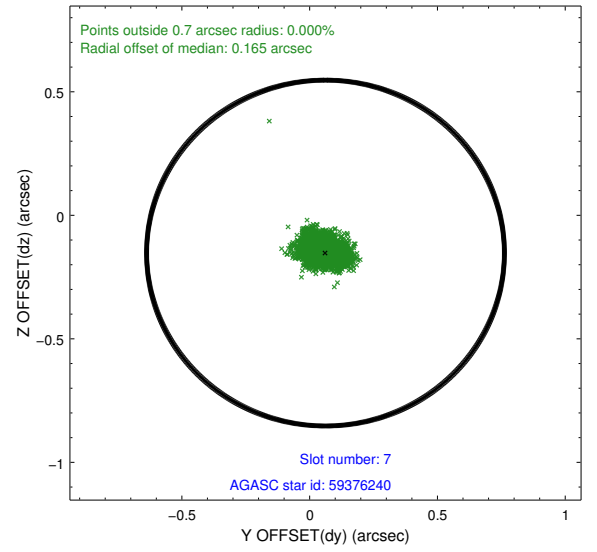
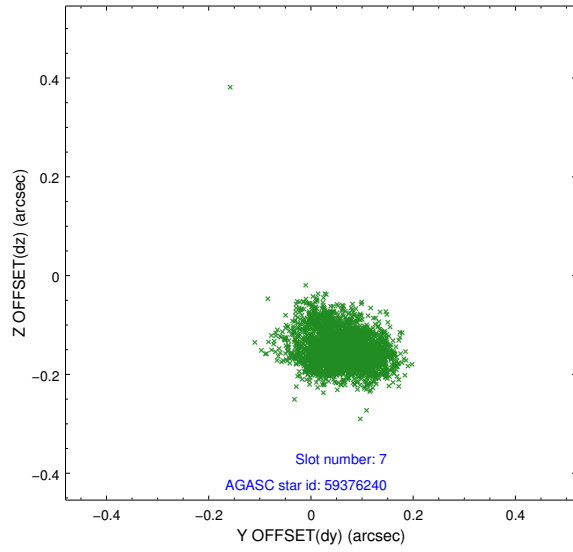


## 2.4.4 Slot 6



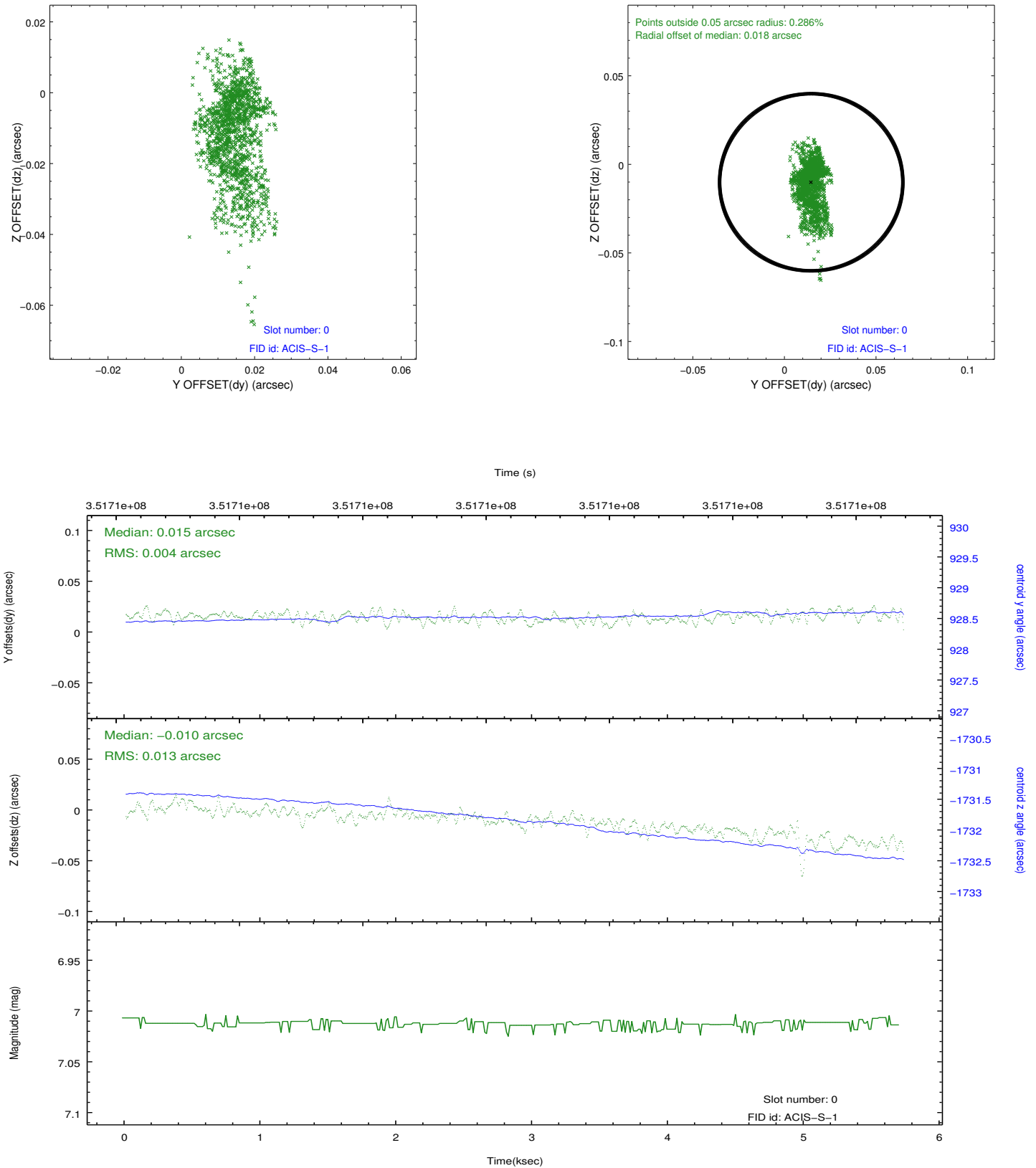


## 2.4.5 Slot 7

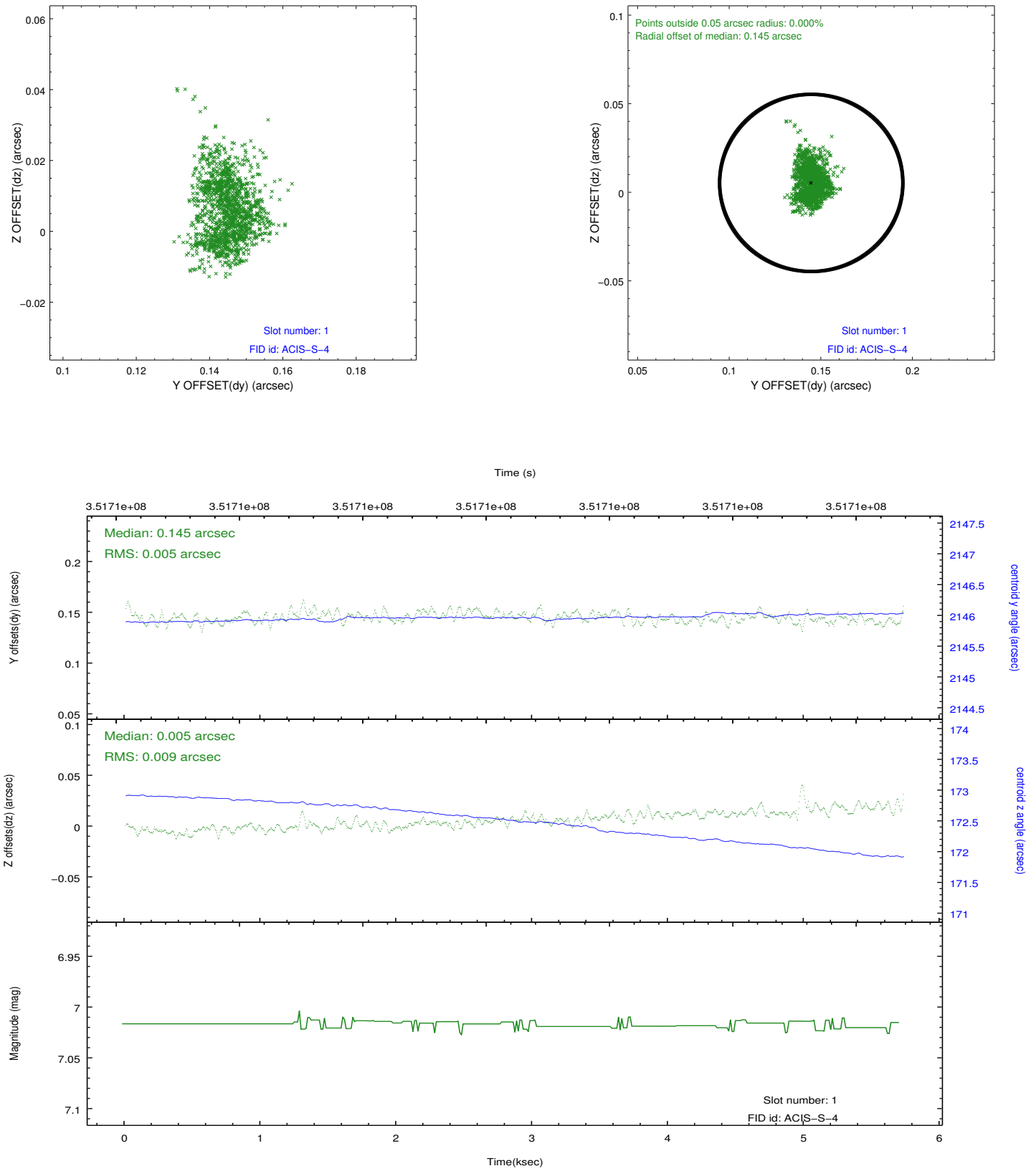


## 2.5 FID Slots

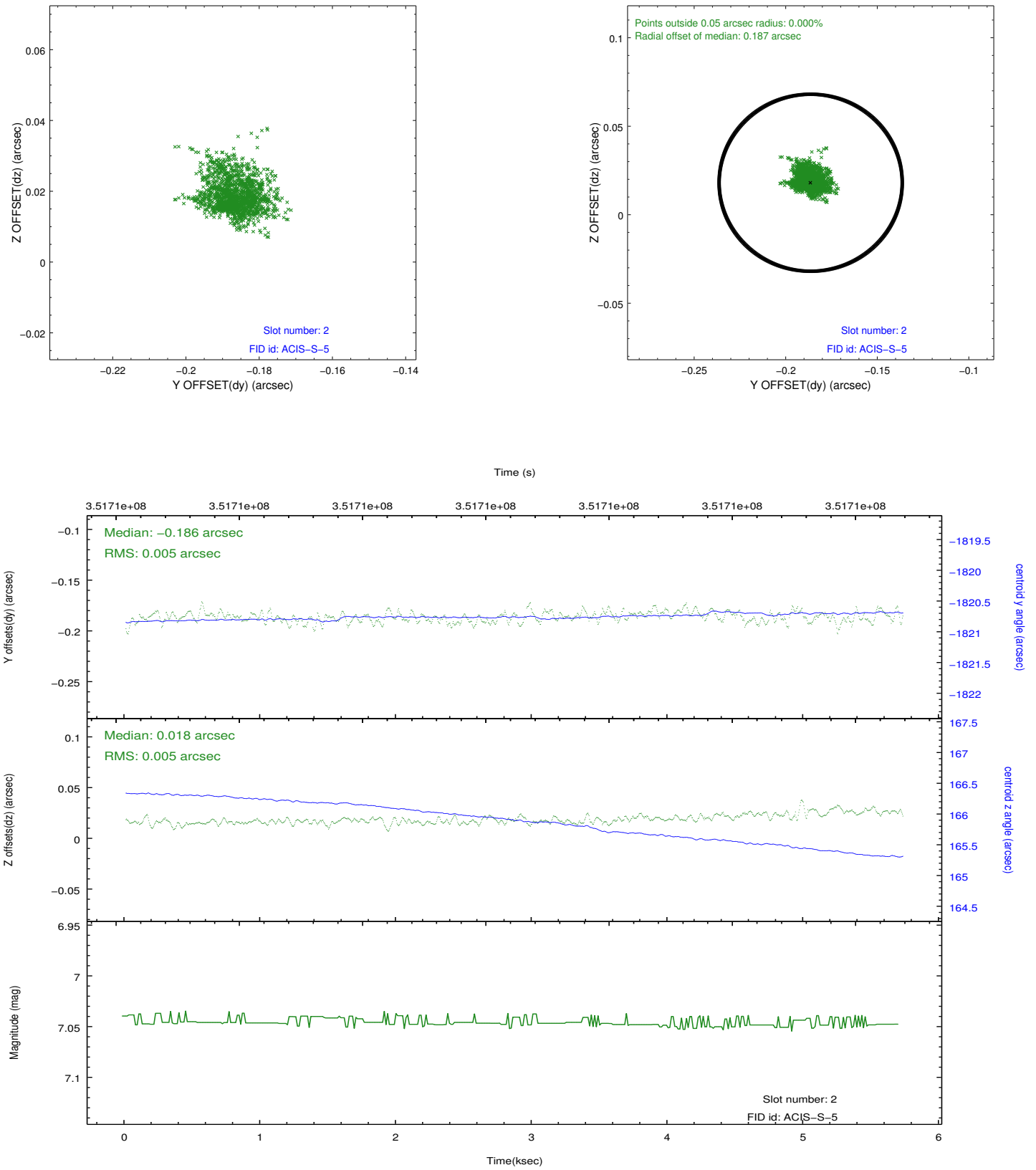
### 2.5.1 Slot 0



## 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)	2012.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.72159997

### A.2 Comments