

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8169 - L2 Version 2  
Chandra X-Ray Center

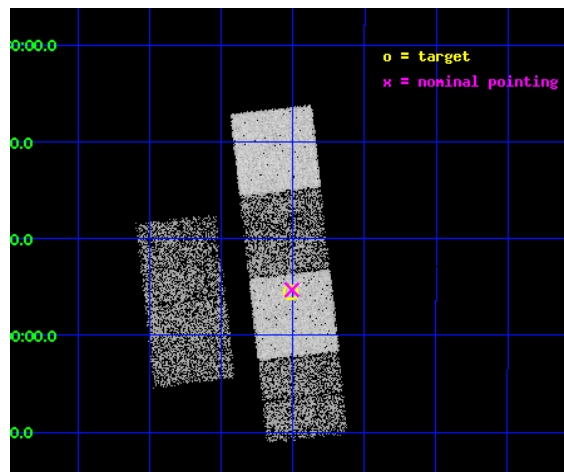
L2 Processing Date : May 10 2012

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# 1 Front

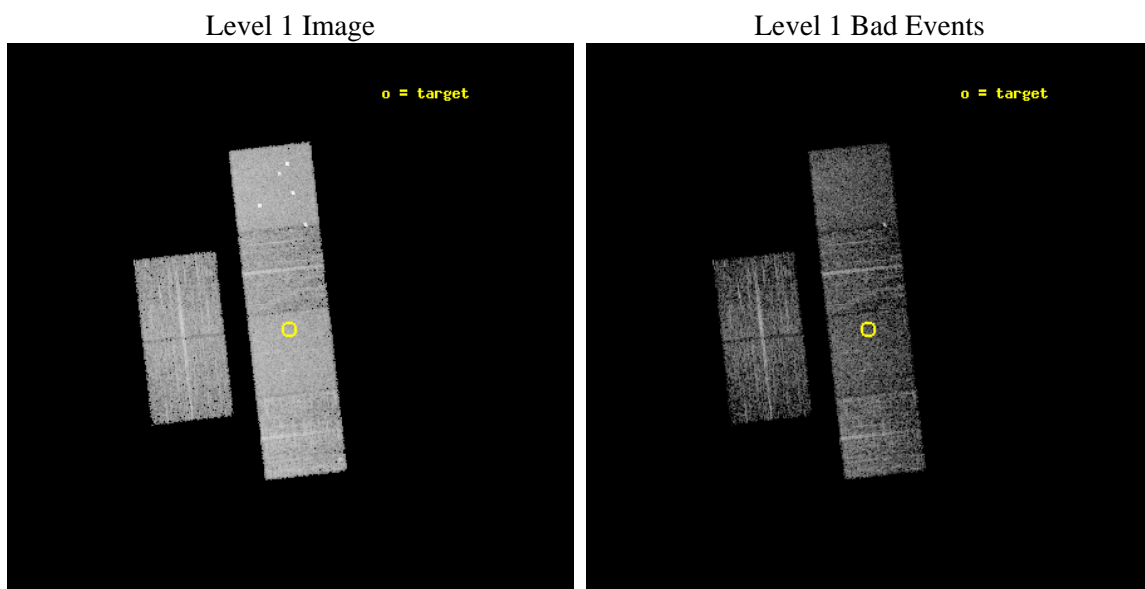
seq_num	900710	Sequence number
obs_id	8169	Observation id
title	ChICAGO GTO: Chandra Identification of Compact ASCA Galactic Objects	&#160
observer	Dr. Stephen Murray	Principal investigator
object	AX J184400-0355	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	281.004167	Observer's specified target RA [deg]
dec_targ	-3.926	Observer's specified target Dec [deg]
ra_nom	281.00213194385	Nominal RA [deg]
dec_nom	-3.9215196311746	Nominal Dec [deg]
roll_nom	83.552384286024	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3158.3999882936	Sum of GTIs [s]
livetime	3118.4064258817	Livetime [s]
ontime2	3158.3999882936	Sum of GTIs [s]
ontime3	3158.3999882936	Sum of GTIs [s]
ontime5	3158.3999882936	Sum of GTIs [s]
ontime6	3158.3999882936	Sum of GTIs [s]
ontime7	3158.3999882936	Sum of GTIs [s]
ontime8	3151.9179877639	Sum of GTIs [s]
l2events	50838	Number of level 2 events



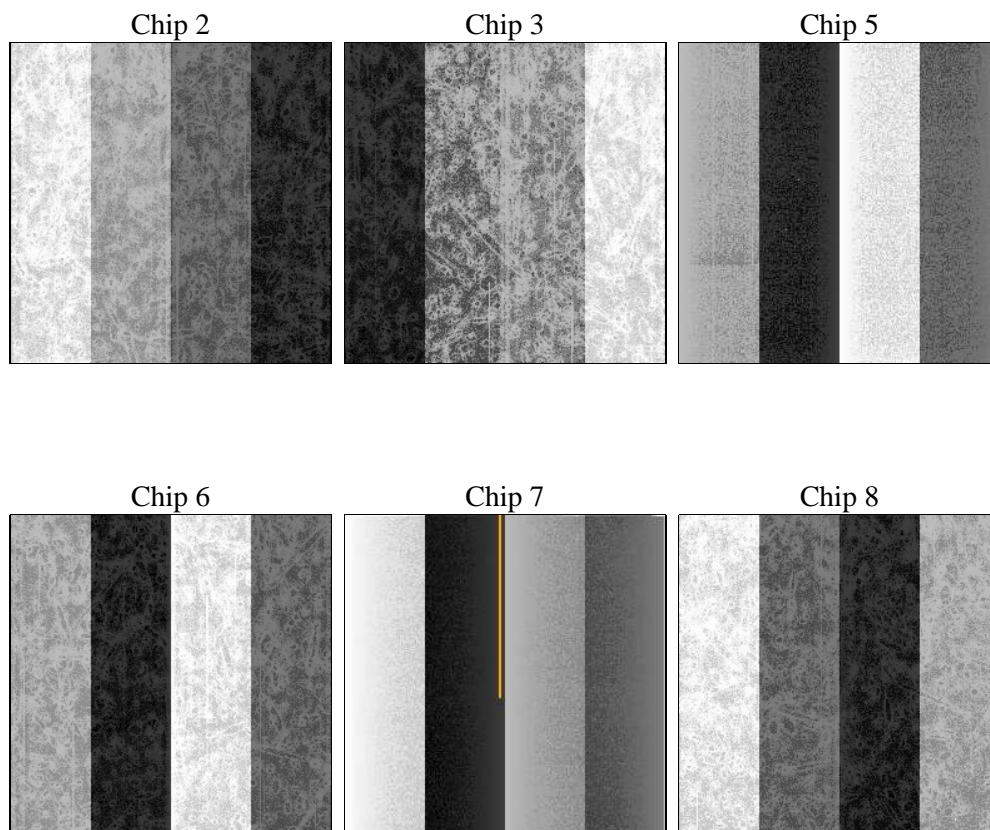
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	3158.3999882936	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	3158.3999882936	Sum of GTIs [s]
date	2012-05-10T21:32:04	Date and time of file creation	ontime3	3158.3999882936	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3158.3999882936	Sum of GTIs [s]
			ontime6	3158.3999882936	Sum of GTIs [s]
			ontime7	3158.3999882936	Sum of GTIs [s]
			ontime8	3151.9179877639	Sum of GTIs [s]
			l1events	224478	Number of level 1 events

### 2.1.4 Events

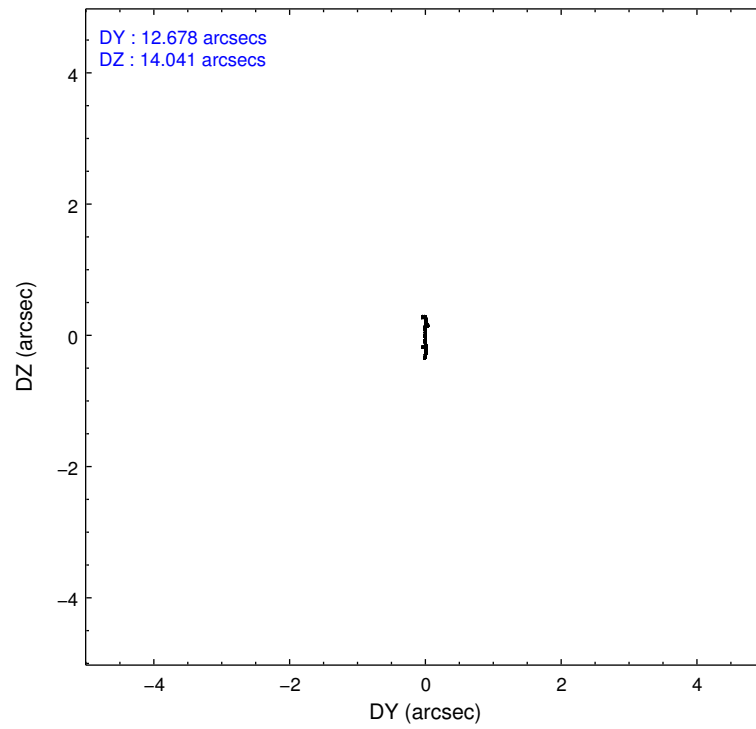
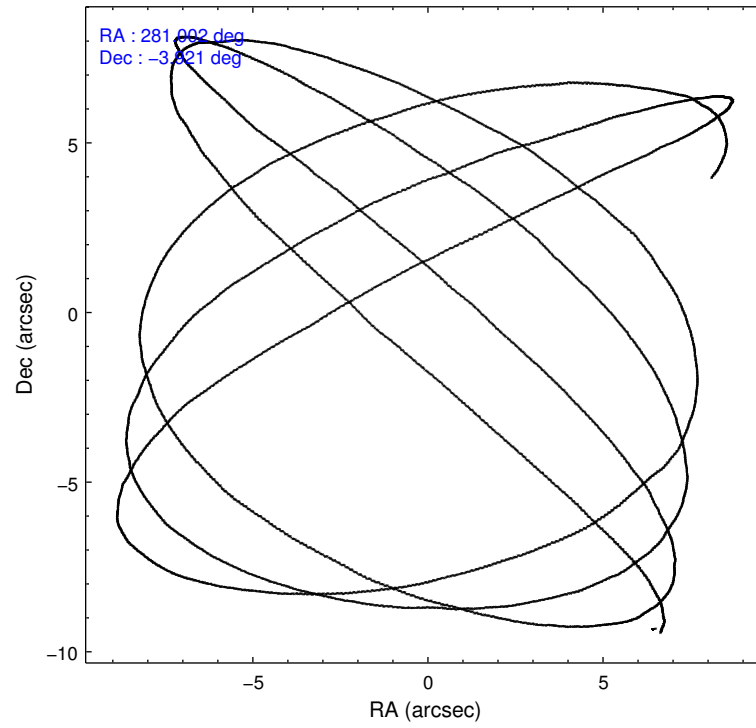
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	31472	28231	49393	29681	42042	43659	grade 0 events	1623	1714	3620	1697	1504	3043
rejected events	27842	24501	25186	25775	24414	34239		5%	6%	7%	5%	3%	6%
rejected %	88%	86%	50%	86%	58%	78%	grade 1 events	15	17	139	30	52	35
								0%	0%	0%	0%	0%	0%
							grade 2 events	768	722	7353	821	3580	2054
								2%	2%	14%	2%	8%	4%
							grade 3 events	317	316	784	320	1429	1001
								1%	1%	1%	1%	3%	2%
							grade 4 events	317	345	752	318	1504	902
								1%	1%	1%	1%	3%	2%
							grade 5 events	1165	1364	3207	1497	3933	1896
								3%	4%	6%	5%	9%	4%
							grade 6 events	612	634	11722	754	9626	2450
								1%	2%	23%	2%	22%	5%
							grade 7 events	26655	23119	21816	24244	20414	32278
								84%	81%	44%	81%	48%	73%

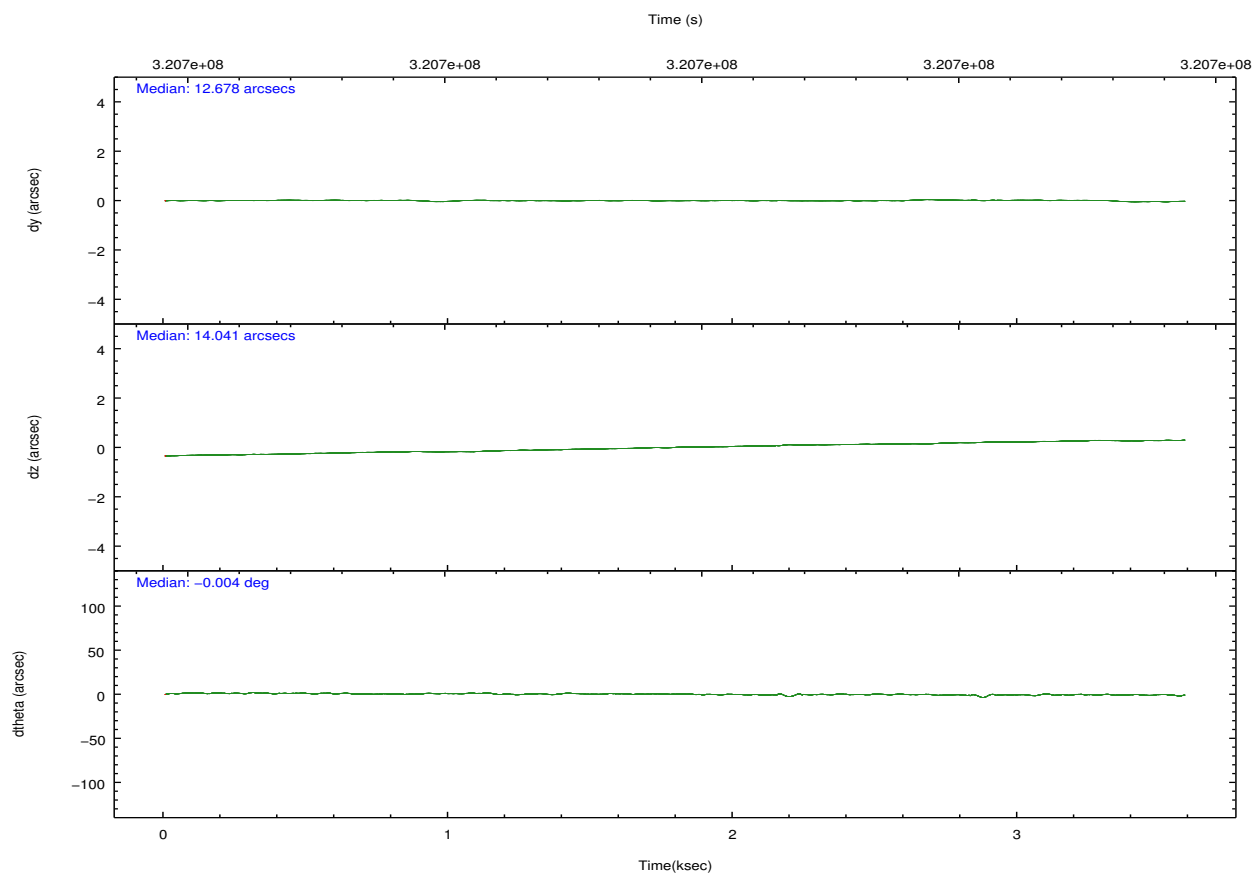
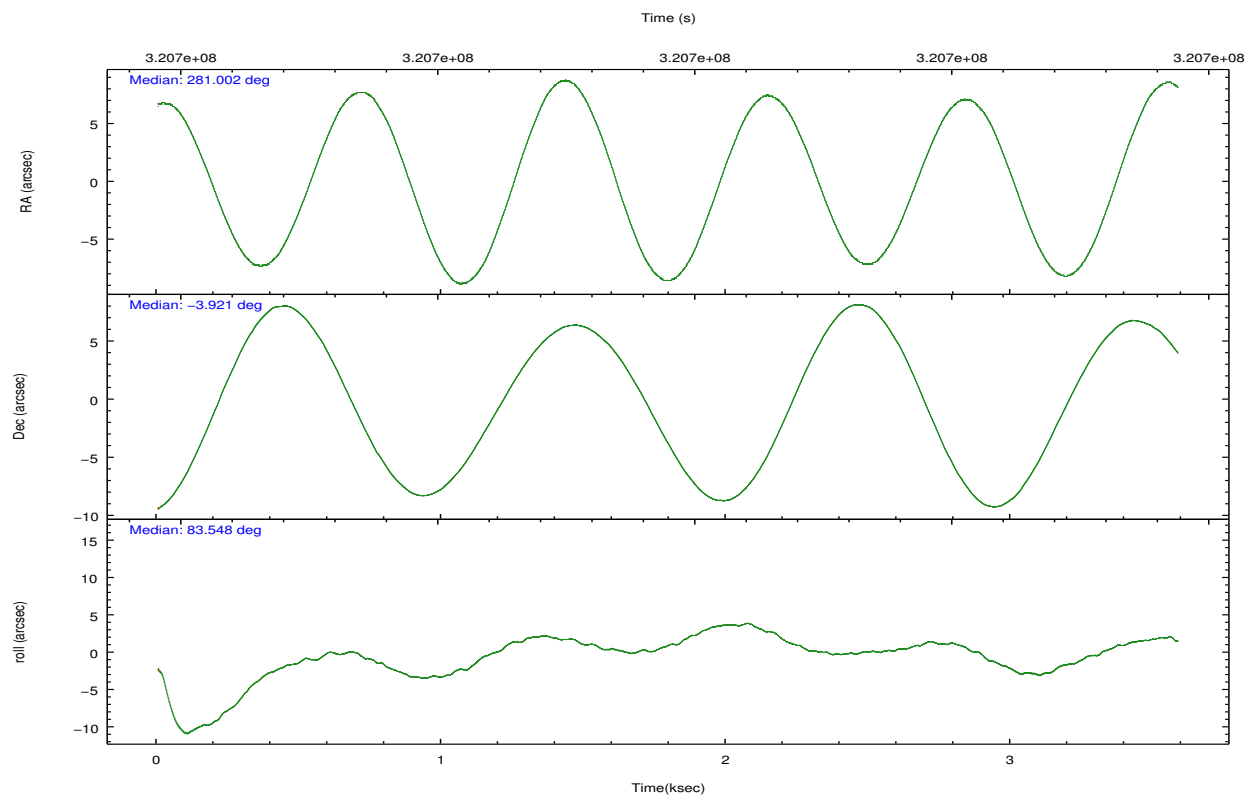


## 2.2 Compared Parameters

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	281.013389	281.0021319438511	CCD I2 on	O2	Y
[deg] Pointing Dec	-3.946527	-3.92151963117457	CCD I3 on	O3	Y
[deg] Pointing Roll	83.396531	83.55238428602397	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)	320699295.184000	320698891.07844	CCD S5 on	N	N
Observation start date	2008-02-29T19:07:10	2008-02-29T19:01:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	320702695.184000	320703961.24118	On-chip summing requested	N	N
Observation end date	2008-02-29T20:03:50	2008-02-29T20:26:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



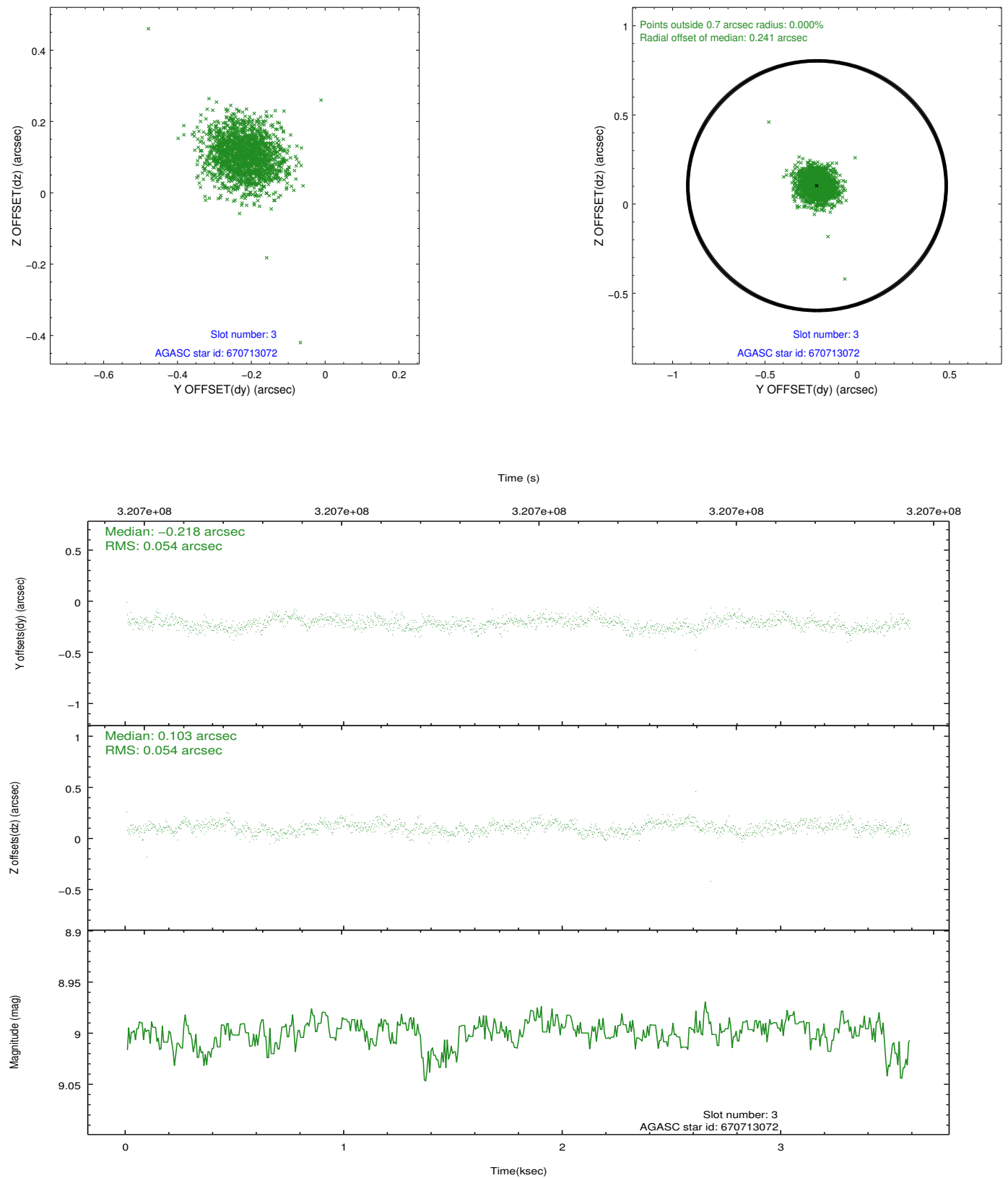


### Slot Statistics

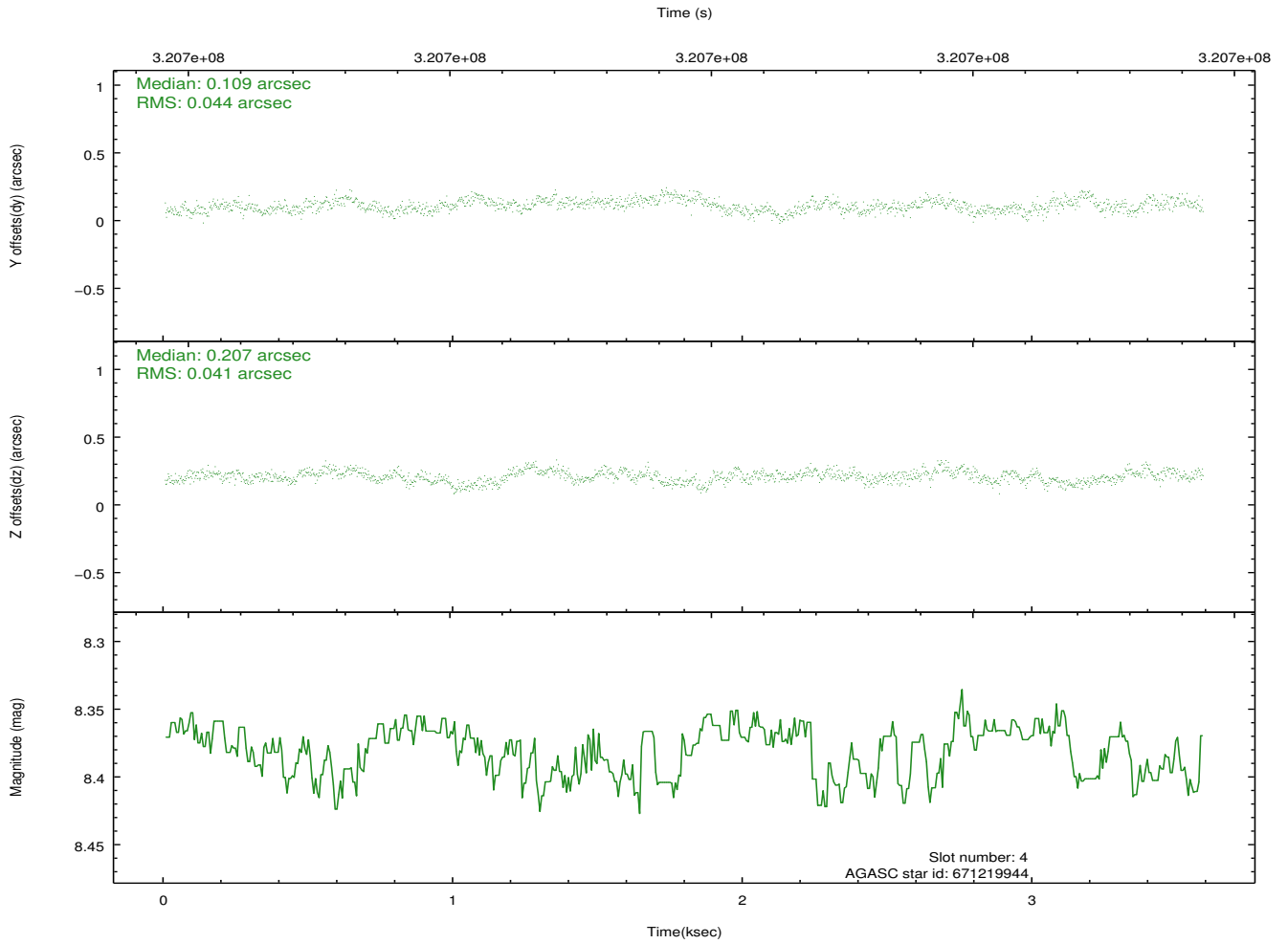
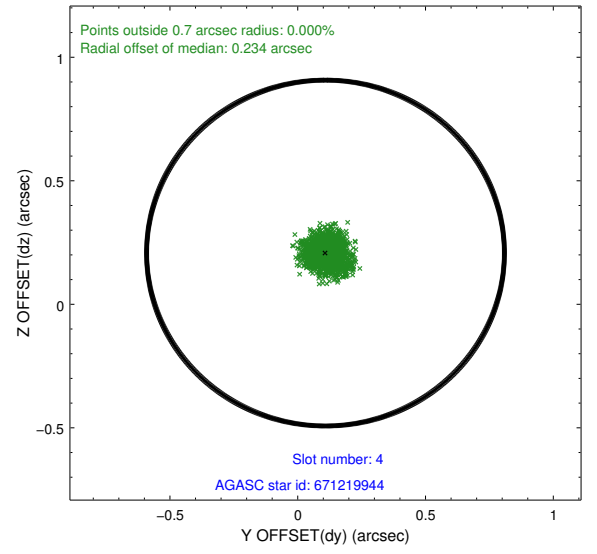
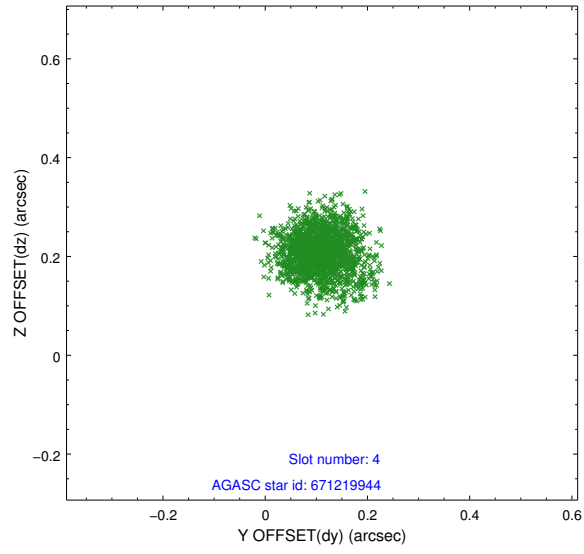
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	875	-0.039	-0.052	0.009	0.017	0.000000	0.000000	-765.61	-1735.39
1	FID	ACIS-S-4	7.19	875	0.149	0.033	0.006	0.011	0.000000	0.000000	2147.04	171.37
2	FID	ACIS-S-5	7.23	875	-0.141	0.028	0.009	0.017	0.000000	0.000000	-1816.31	167.01
3	GUIDE	670713072	9.00	1748	-0.218	0.103	0.079	0.128	281.205407	-3.604132	1303.26	-543.00
4	GUIDE	671219944	8.38	1749	0.109	0.207	0.065	0.105	280.991216	-4.477272	-1906.76	-140.53
5	GUIDE	671222088	8.33	1749	-0.084	-0.273	0.062	0.107	280.484932	-4.110652	-807.36	1816.92
6	GUIDE	671224408	8.94	1748	0.097	-0.271	0.064	0.105	280.545473	-4.404085	-1830.94	1480.17
7	GUIDE	671357648	8.09	1747	0.094	0.234	0.055	0.092	281.369237	-4.599649	-2190.22	-1537.68

## 2.4 Star Slots

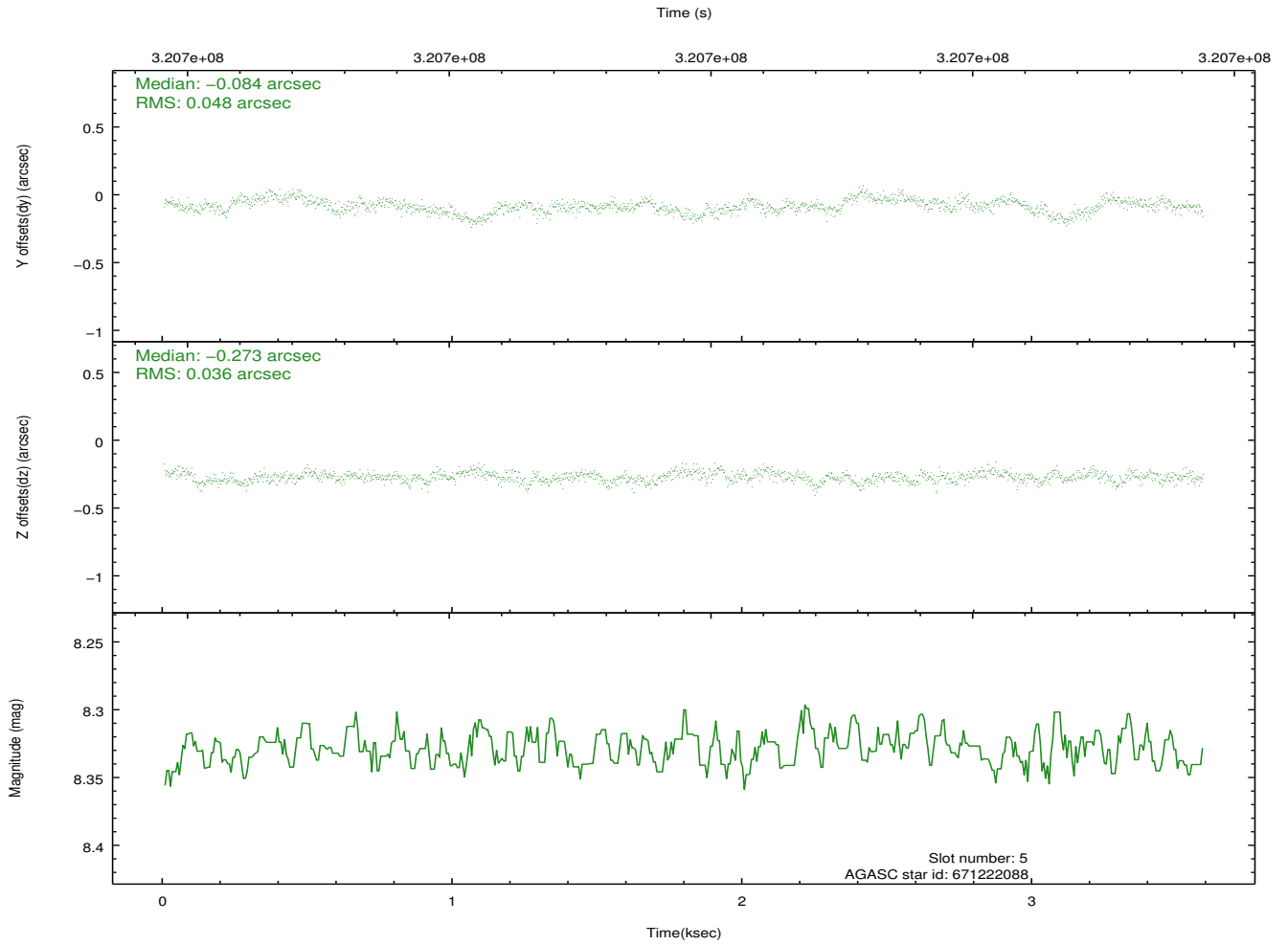
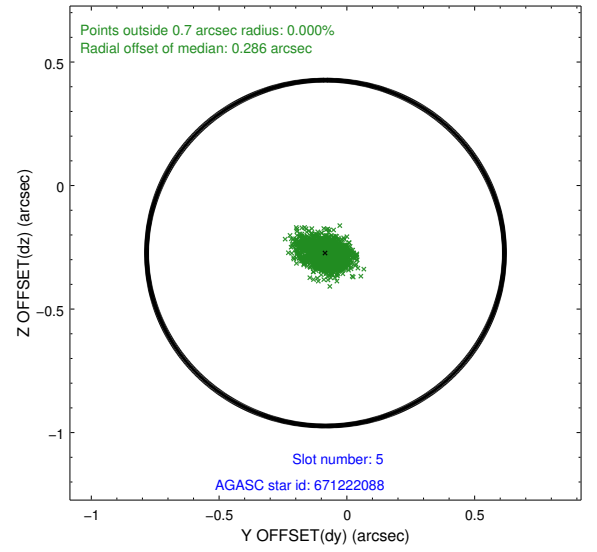
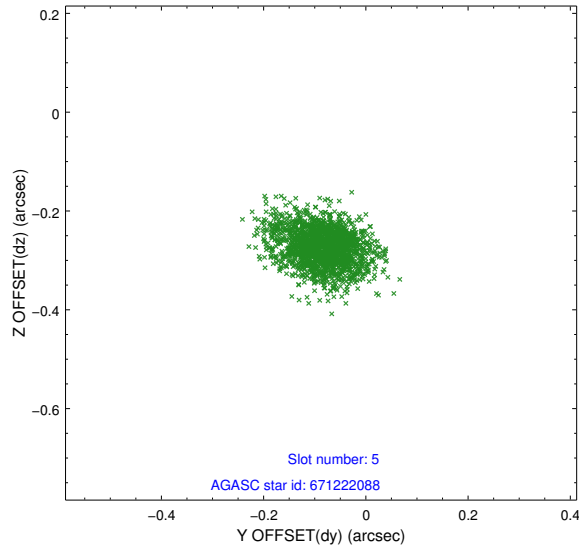
### 2.4.1 Slot 3



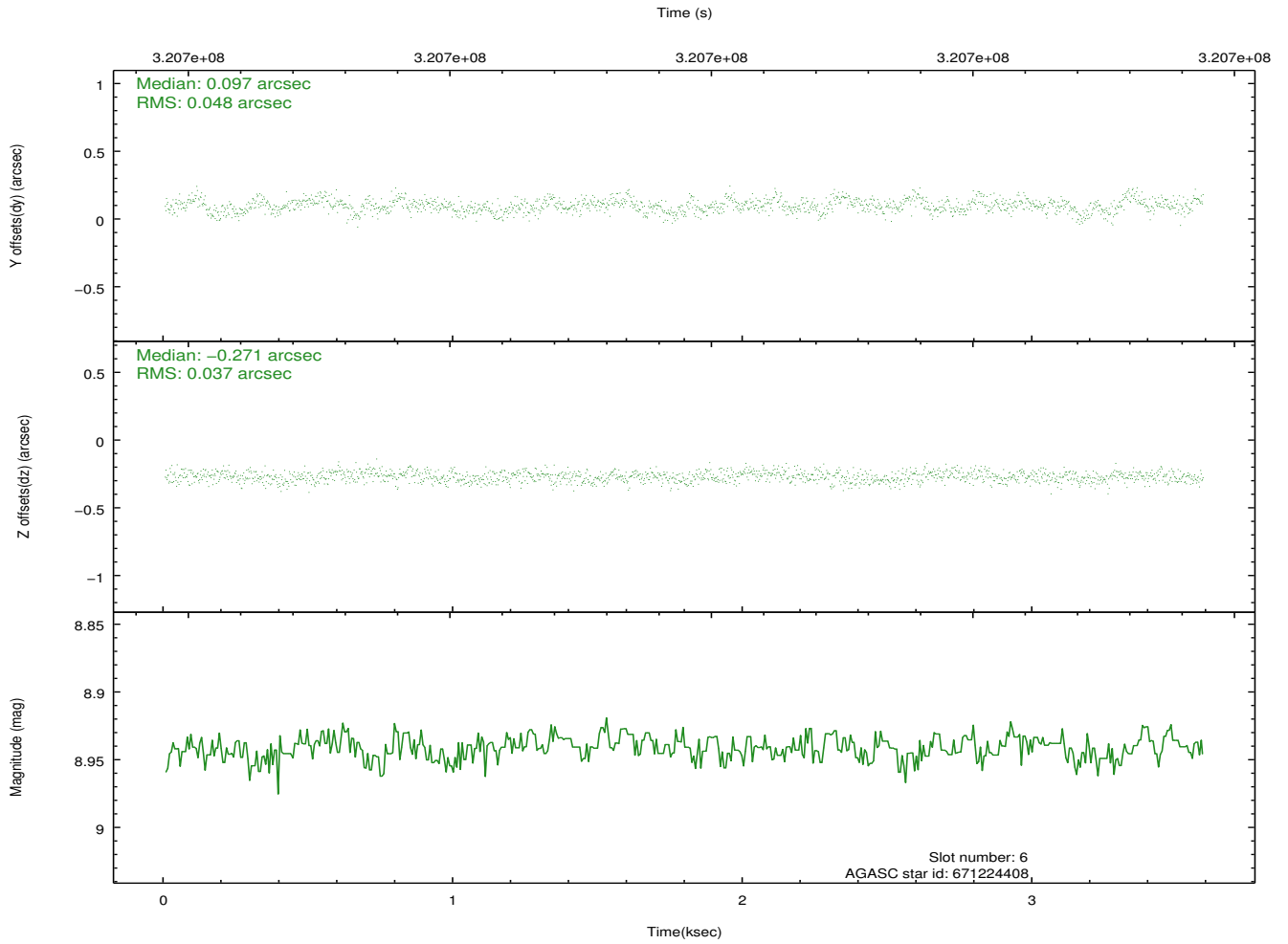
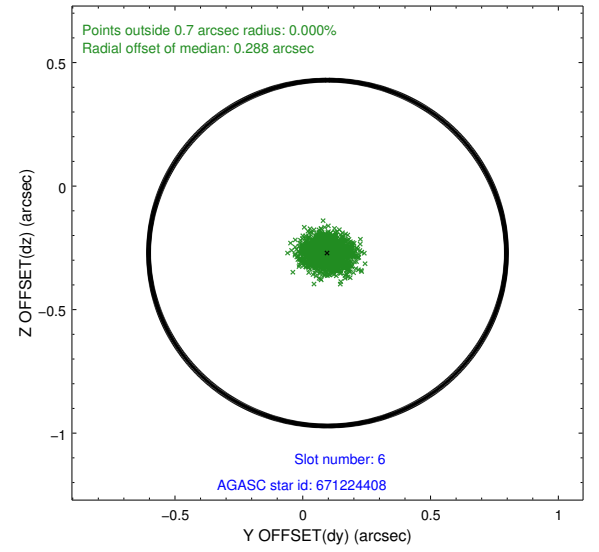
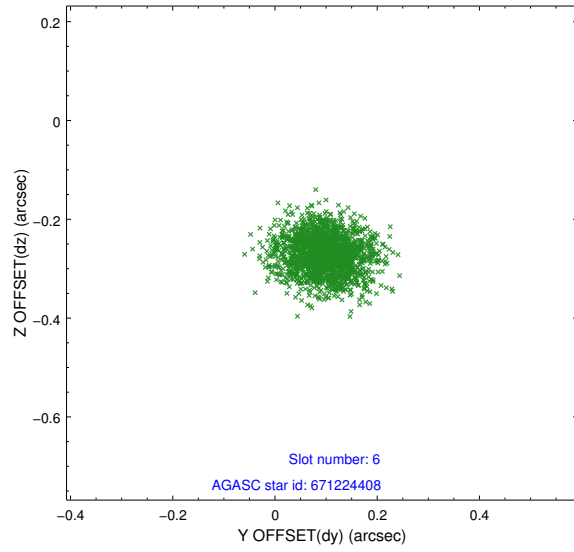
## 2.4.2 Slot 4



### 2.4.3 Slot 5

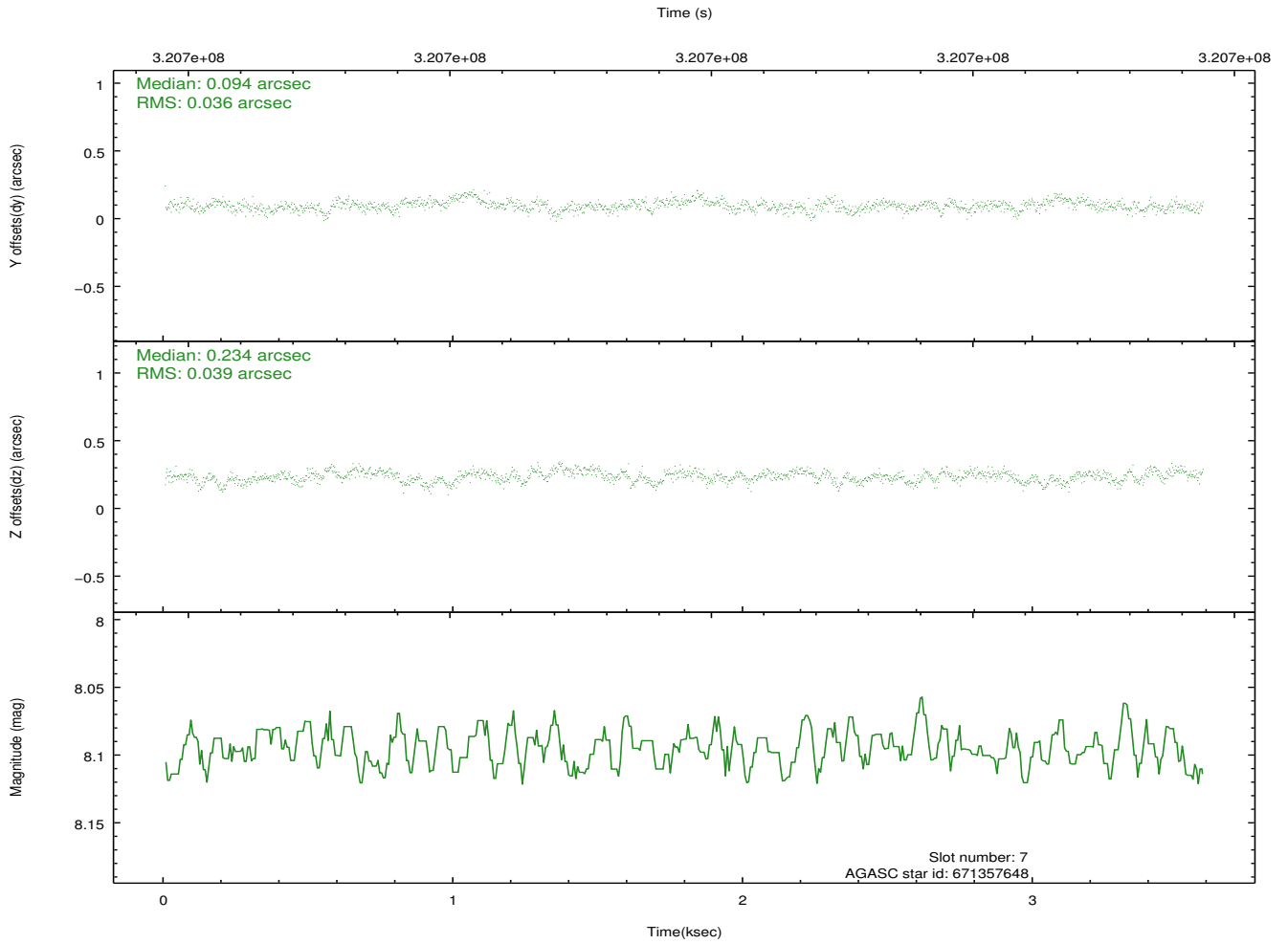
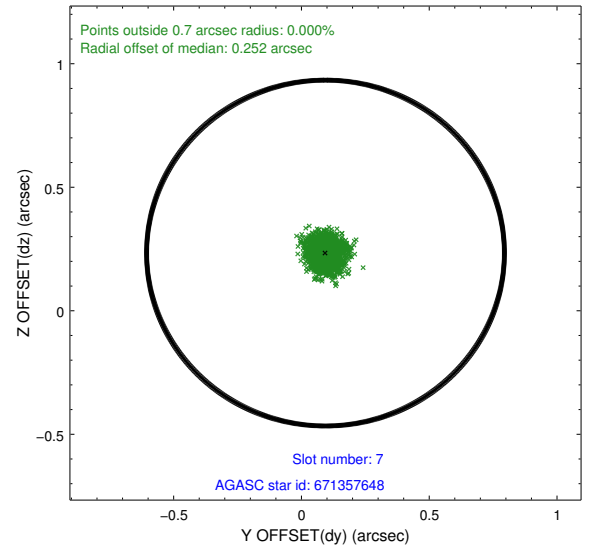
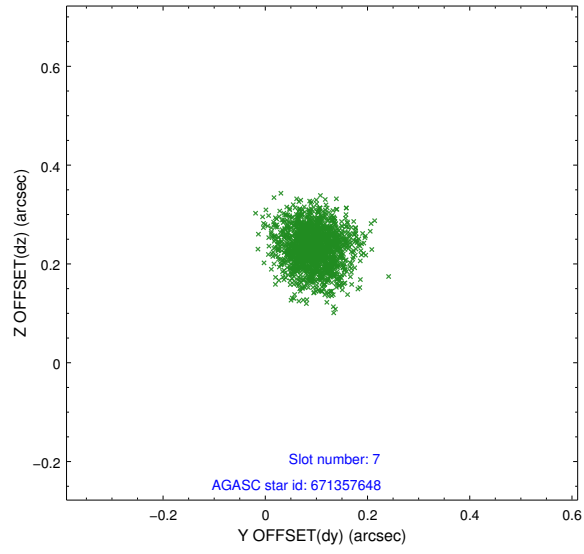


## 2.4.4 Slot 6



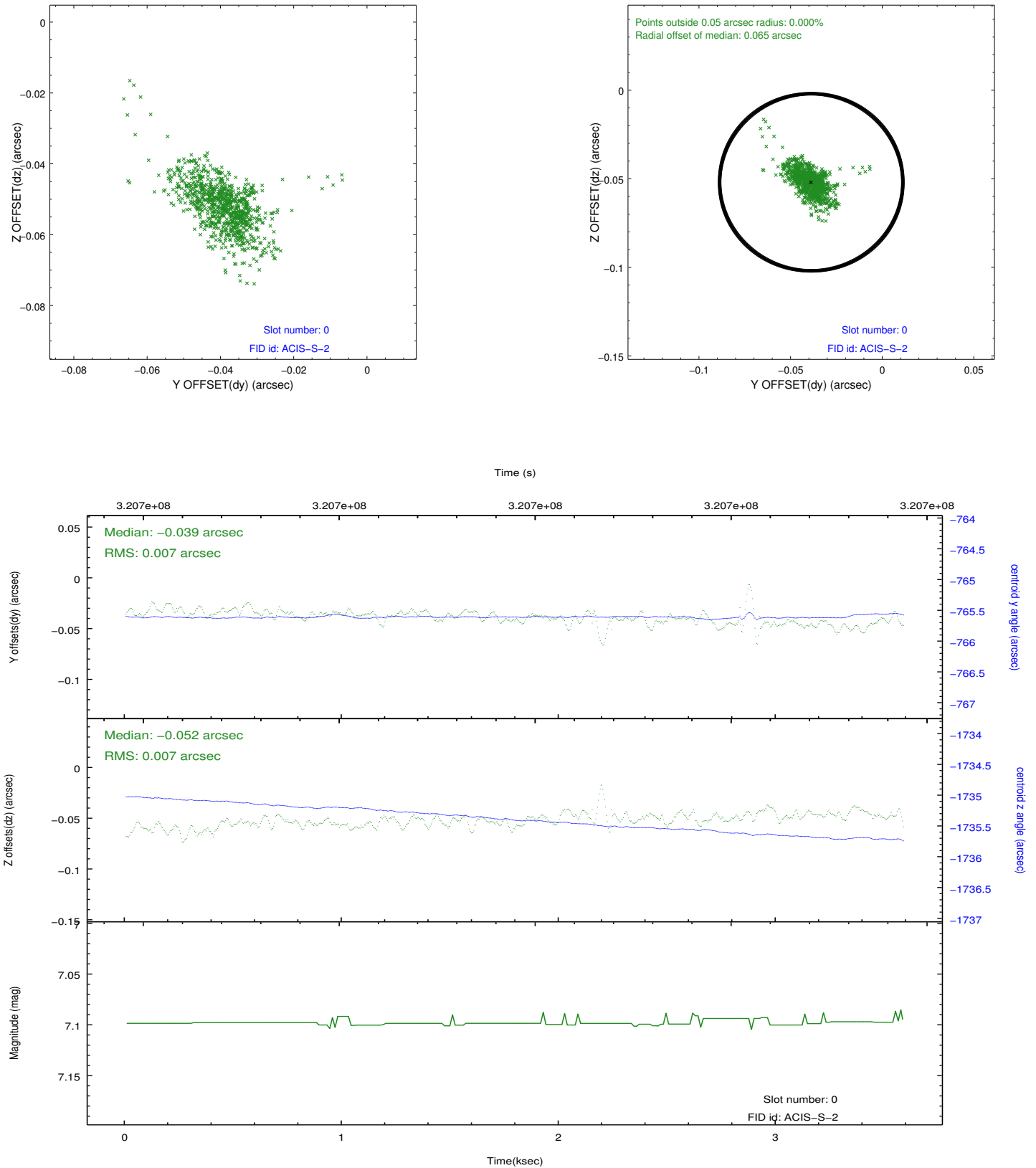


## 2.4.5 Slot 7

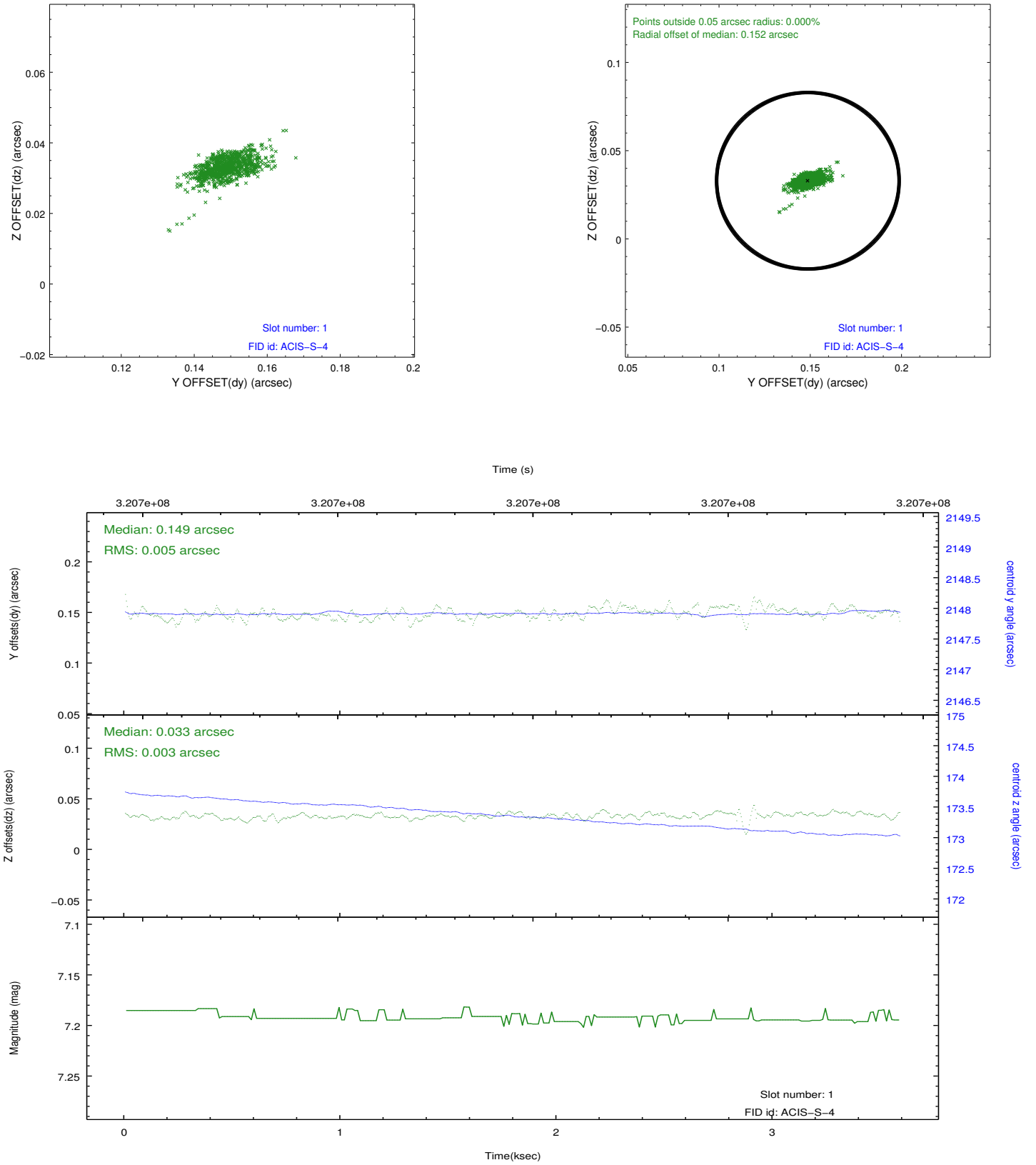


## 2.5 FID Slots

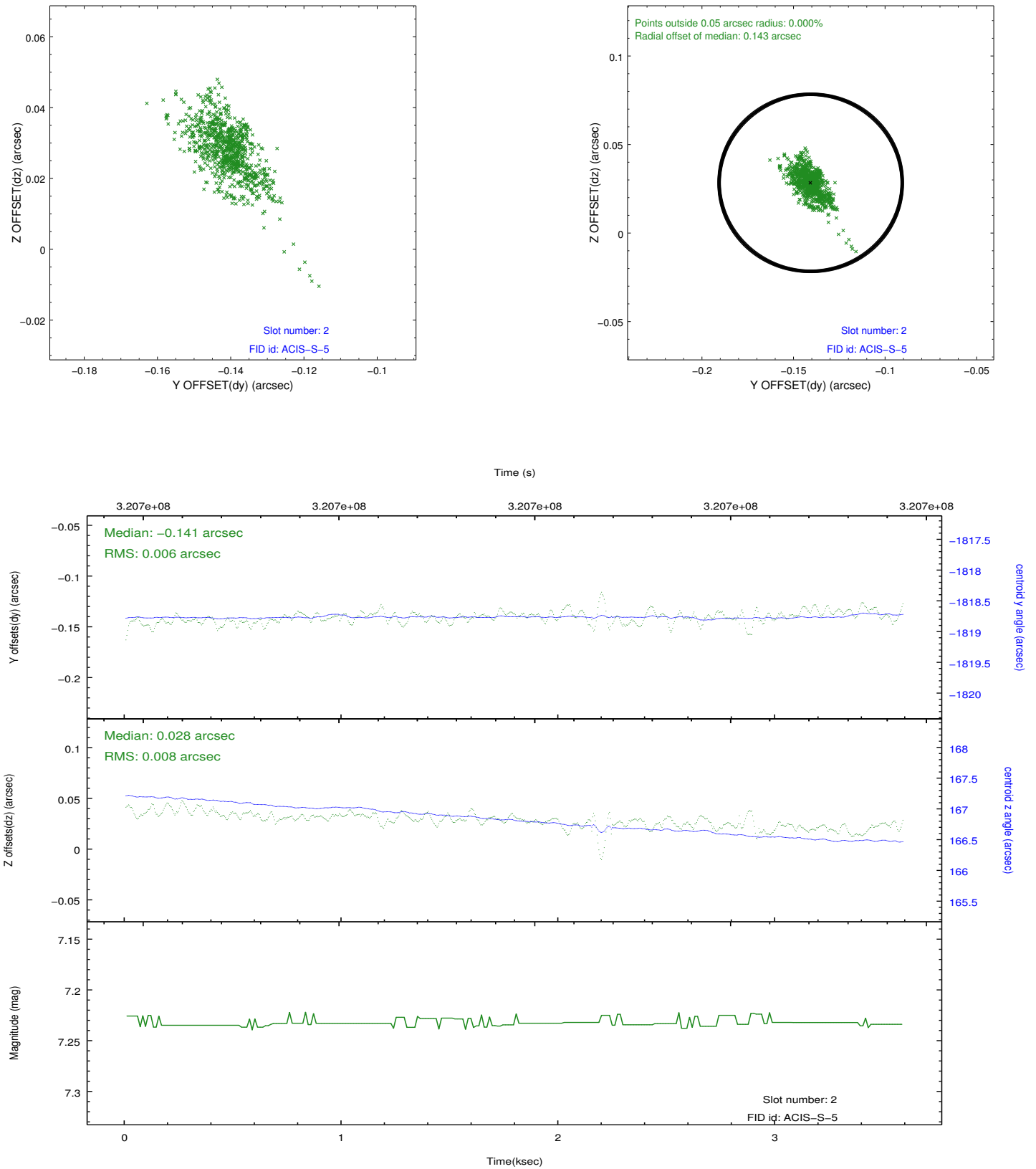
### 2.5.1 Slot 0



## 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)	2012.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.15839998

### A.2 Comments