

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3340 - L2 Version 3  
Chandra X-Ray Center

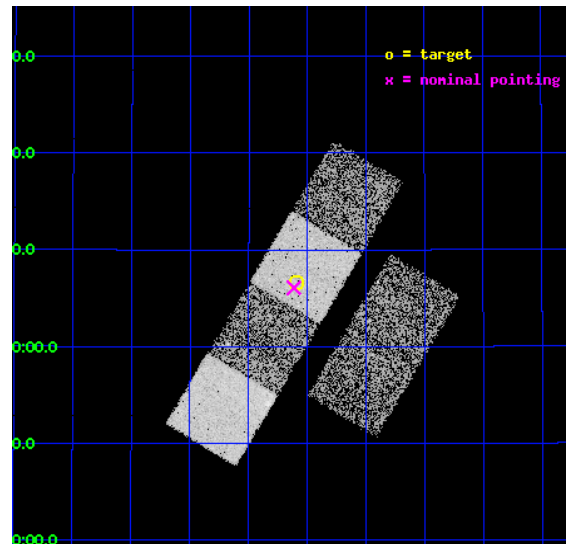
L2 Processing Date : Oct 15 2012

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# 1 Front

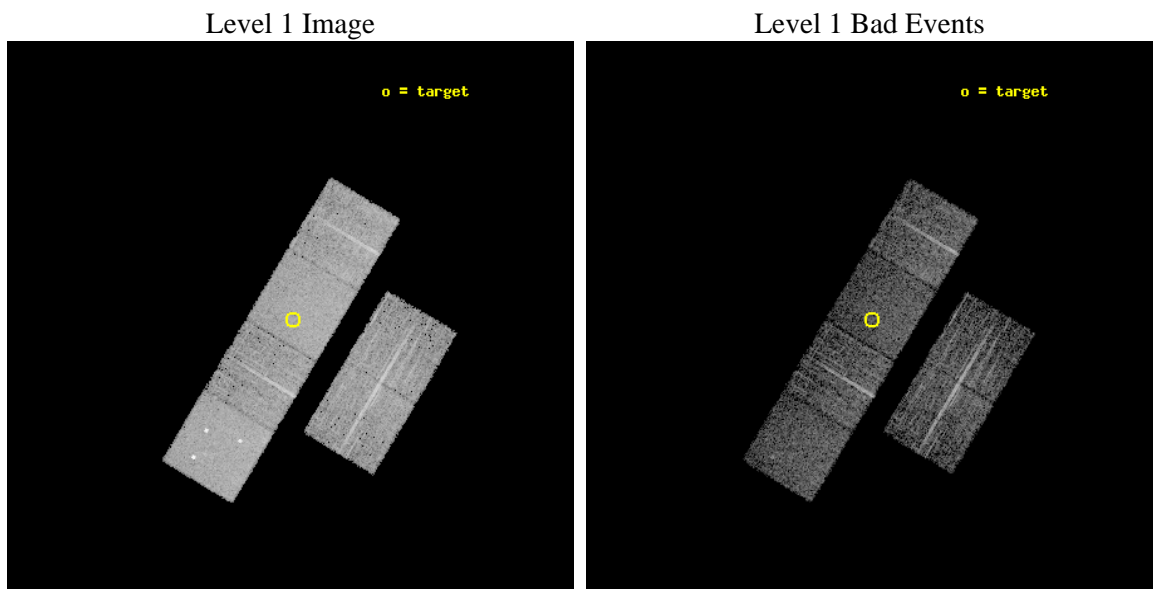
seq_num	900179	Sequence number
obs_id	3340	Observation id
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?	&#160
observer	Prof Kirpal Nandra	Principal investigator
object	AX J1617.0+3506	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.274583	Observer's specified target RA [deg]
dec_targ	35.110556	Observer's specified target Dec [deg]
ra_nom	244.27873912936	Nominal RA [deg]
dec_nom	35.101471687608	Nominal Dec [deg]
roll_nom	300.9547665379	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5160.5749459863	Sum of GTIs [s]
livetime	5095.228638695	Livetime [s]
ontime2	5160.6159859896	Sum of GTIs [s]
ontime3	5160.4518259764	Sum of GTIs [s]
ontime5	5160.533905983	Sum of GTIs [s]
ontime6	5160.4928659797	Sum of GTIs [s]
ontime7	5160.5749459863	Sum of GTIs [s]
ontime8	5160.4107860029	Sum of GTIs [s]
l2events	56980	Number of level 2 events



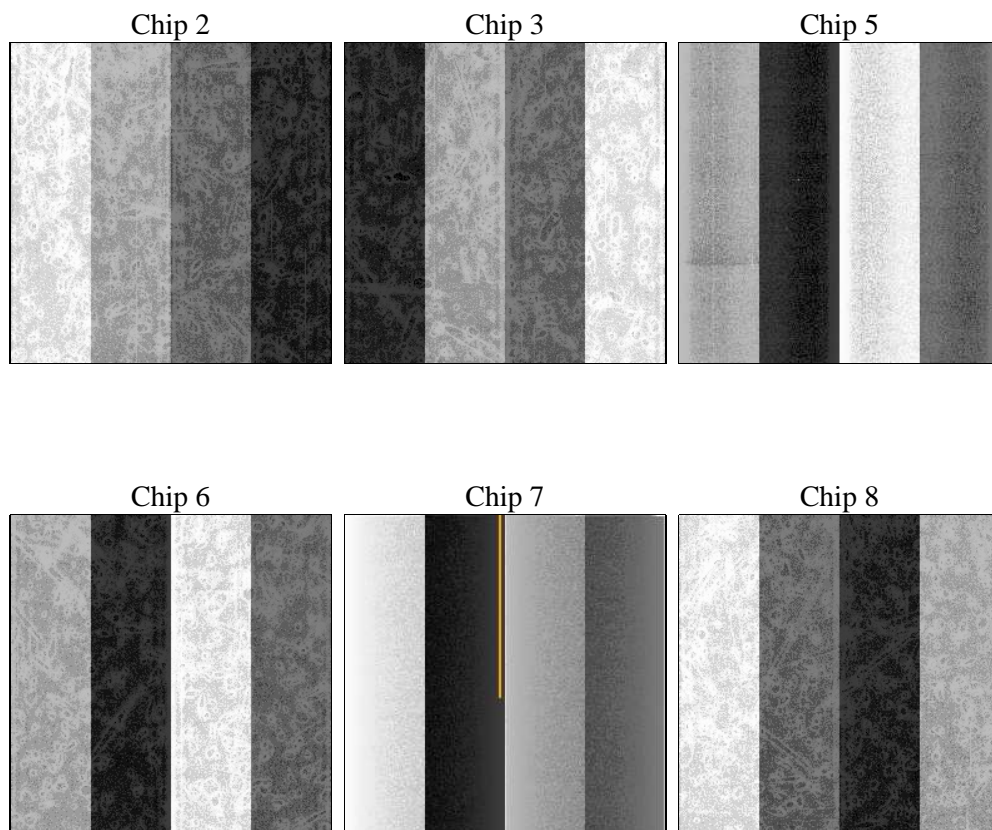
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5160.5749459863	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	5160.6159859896	Sum of GTIs [s]
date	2012-10-15T12:48:38	Date and time of file creation	ontime3	5160.4518259764	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5160.533905983	Sum of GTIs [s]
			ontime6	5160.4928659797	Sum of GTIs [s]
			ontime7	5160.5749459863	Sum of GTIs [s]
			ontime8	5160.4107860029	Sum of GTIs [s]
			l1events	245786	Number of level 1 events

### 2.1.4 Events

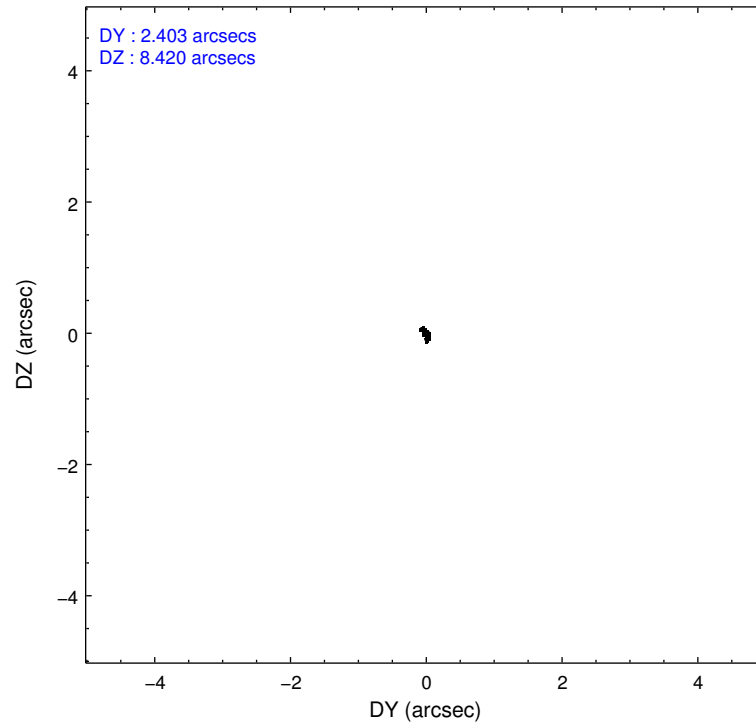
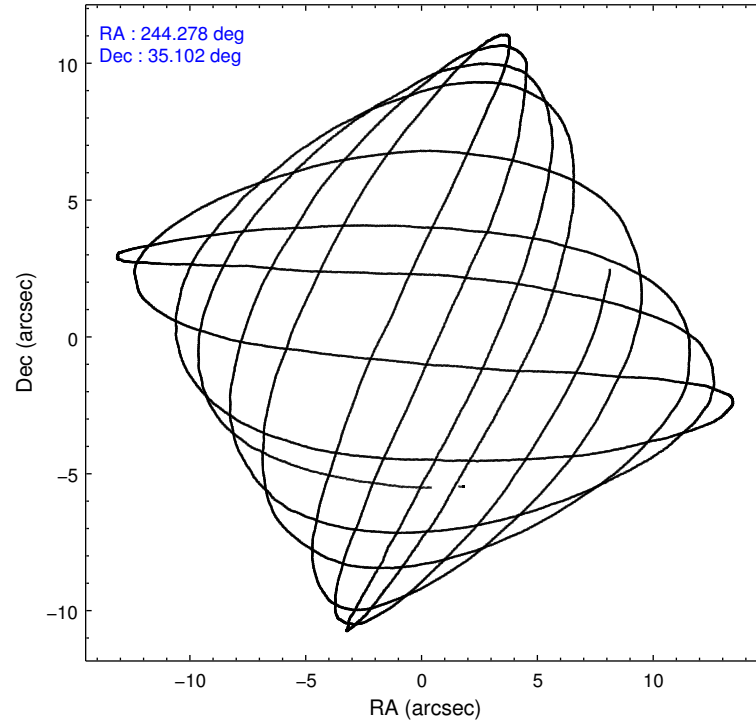
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	35726	33050	52682	35386	45642	43300	grade 0 events	1940	1727	4531	2303	2011	3037
rejected events	31499	29163	26562	30632	25971	34174		5%	5%	8%	6%	4%	7%
rejected %	88%	88%	50%	86%	56%	78%	grade 1 events	18	26	145	21	35	29
								0%	0%	0%	0%	0%	0%
							grade 2 events	833	707	7540	867	3866	1886
								2%	2%	14%	2%	8%	4%
							grade 3 events	407	408	1111	396	1755	927
								1%	1%	2%	1%	3%	2%
							grade 4 events	383	397	1021	389	1825	933
								1%	1%	1%	1%	3%	2%
							grade 5 events	1347	1385	3737	1498	4235	1948
								3%	4%	7%	4%	9%	4%
							grade 6 events	670	650	11942	804	10247	2347
								1%	1%	22%	2%	22%	5%
							grade 7 events	30128	27750	22655	29108	21668	32193
								84%	83%	43%	82%	47%	74%

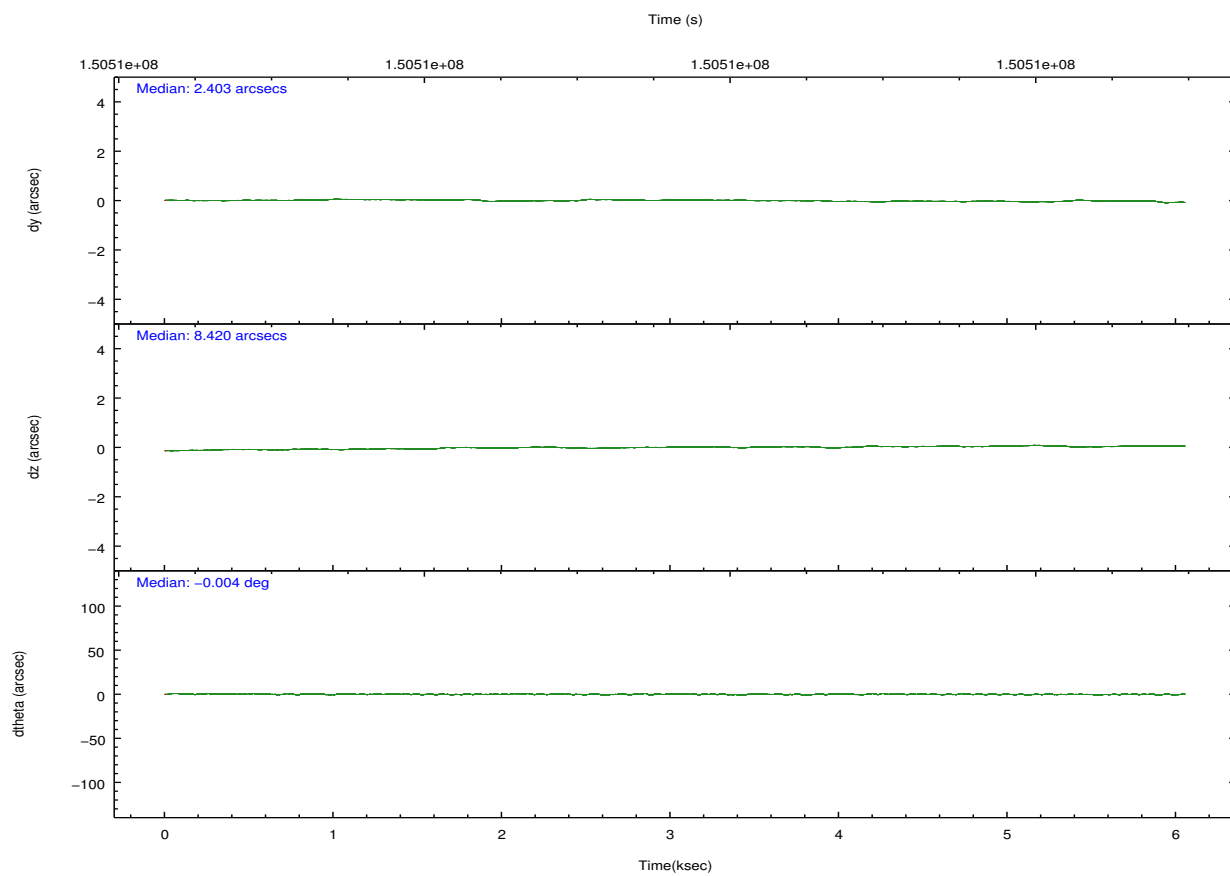
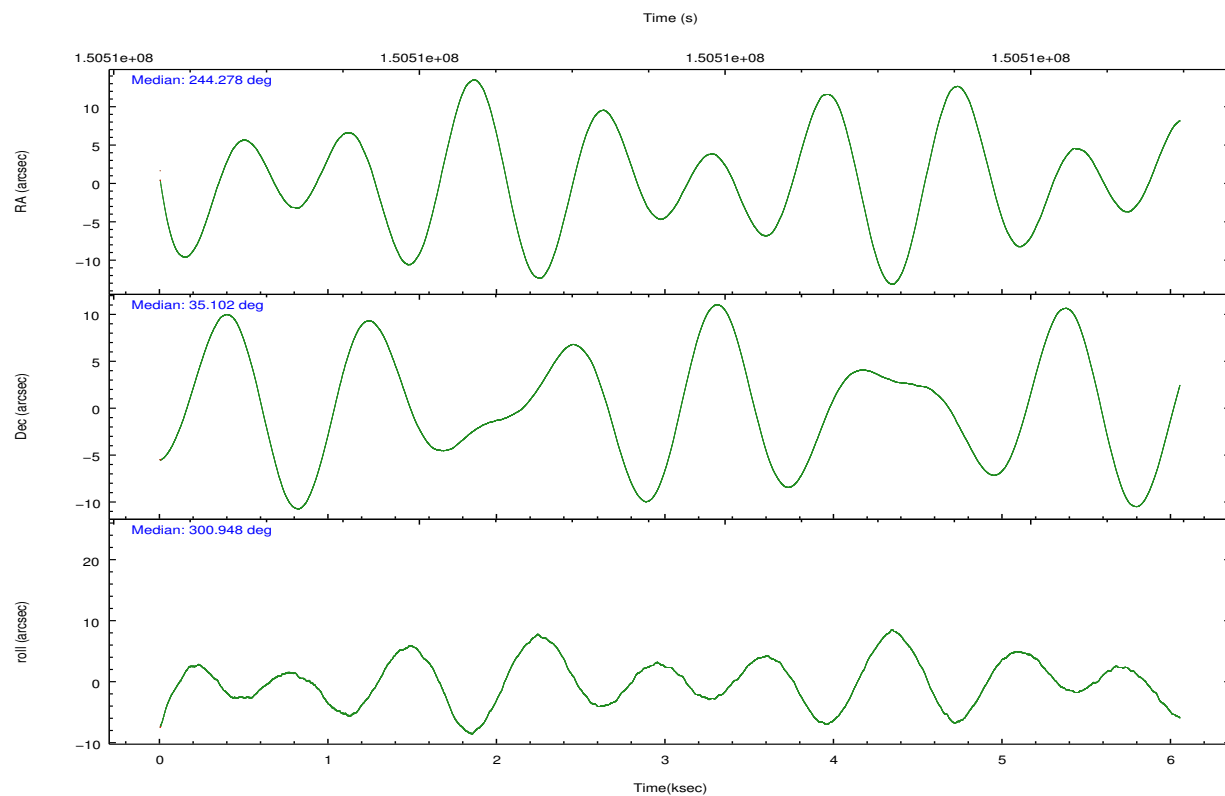


## 2.2 Compared Parameters

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	244.249470	244.2787391293618	Subarray requested	NONE	NONE
[deg] Pointing Dec	35.114413	35.10147168760777	Alternating exposures requested	N	N
[deg] Pointing Roll	300.814973	300.9547665378955	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	150509464.184000	150508173.94011			
Observation start date	2002-10-09T00:10:00	2002-10-08T23:49:33			
[s] Observation end time (MET)	150514664.184000	150515426.32791			
Observation end date	2002-10-09T01:36:40	2002-10-09T01:50:26			
Read mode	TIMED	TIMED			

## 2.3 Aspect



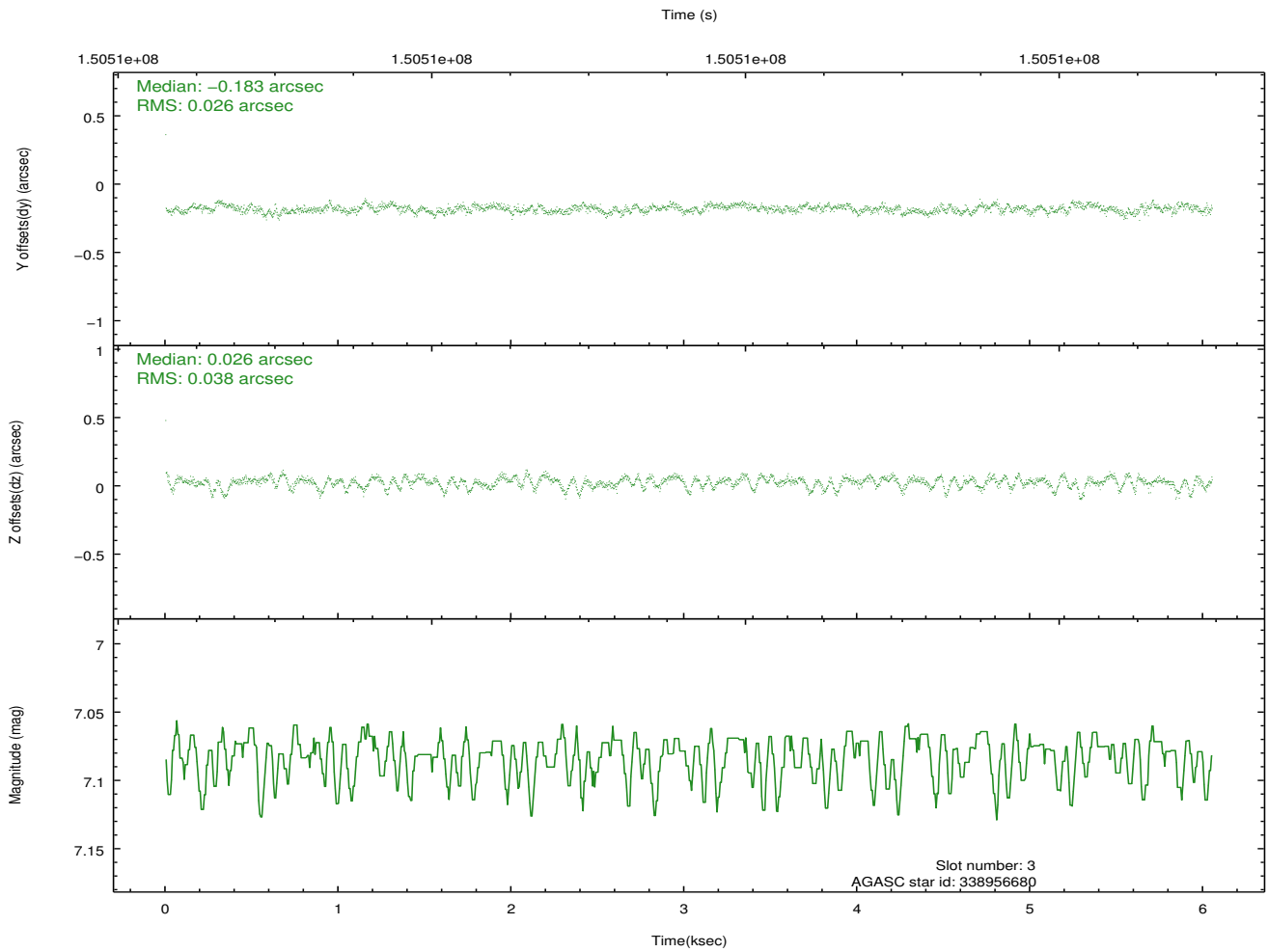
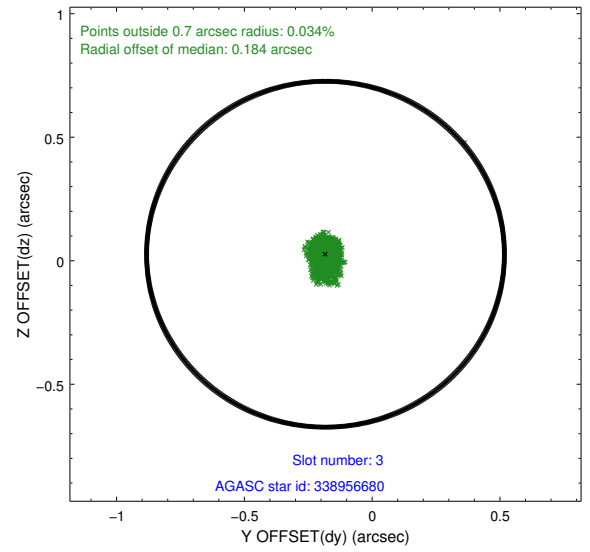
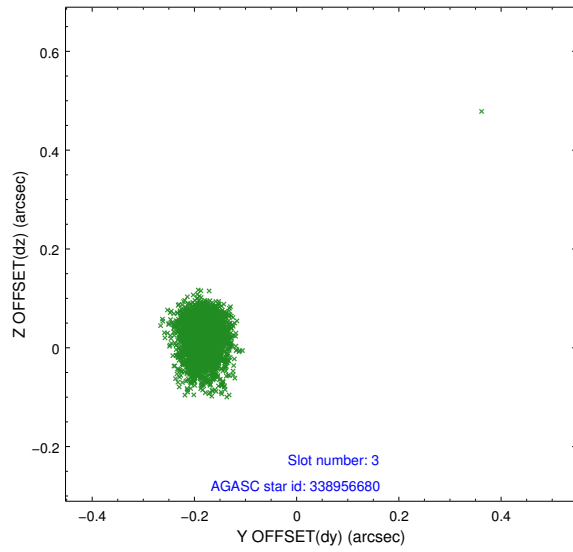


### Slot Statistics

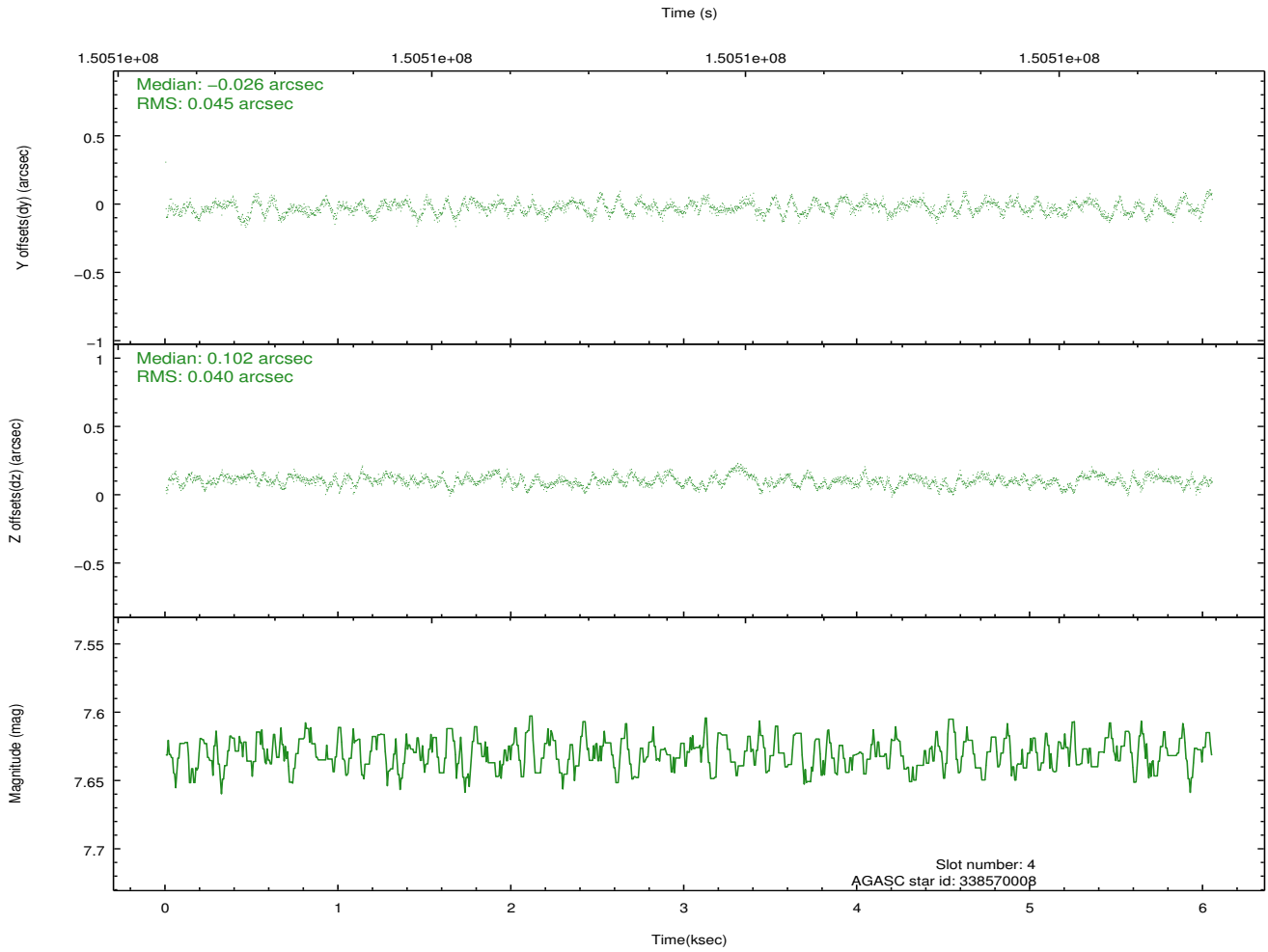
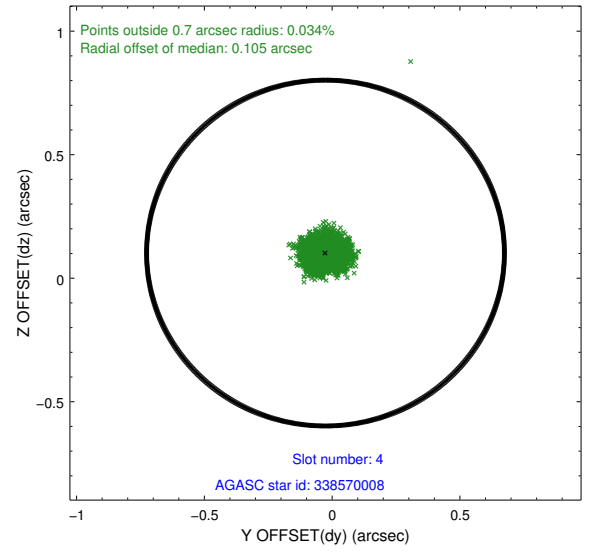
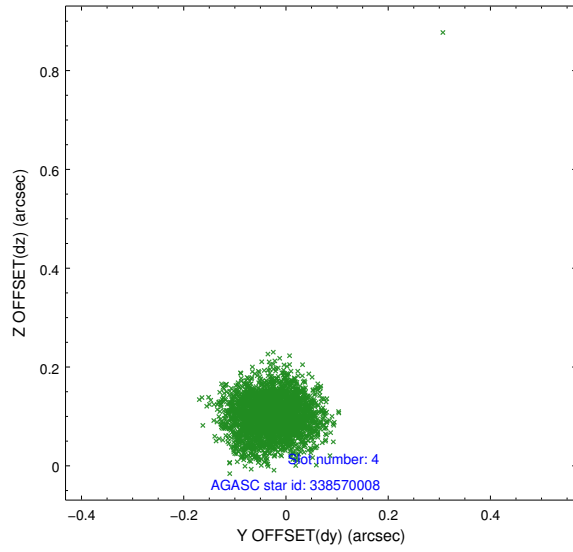
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1477	-0.012	0.004	0.007	0.011	0.000000	0.000000	-755.05	-1729.60
1	FID	ACIS-S-4	7.20	1477	-0.034	0.005	0.006	0.010	0.000000	0.000000	2157.78	177.85
2	FID	ACIS-S-5	7.24	1476	0.015	0.001	0.006	0.011	0.000000	0.000000	-1806.59	172.66
3	GUIDE	338956680	7.08	2953	-0.183	0.026	0.046	0.081	243.355448	35.198926	-1617.88	-2096.57
4	GUIDE	338570008	7.63	2953	-0.026	0.102	0.064	0.099	244.524487	34.482759	2370.30	-463.45
5	GUIDE	338966736	7.87	2952	-0.029	0.039	0.074	0.128	244.463523	35.699581	-1487.98	1617.16
6	GUIDE	338966720	8.16	2953	0.009	-0.015	0.064	0.113	244.297986	35.700677	-1740.00	1203.83
7	GUIDE	338575008	9.09	2949	0.227	-0.143	0.102	0.186	243.925528	34.235689	2222.15	-2446.77

## 2.4 Star Slots

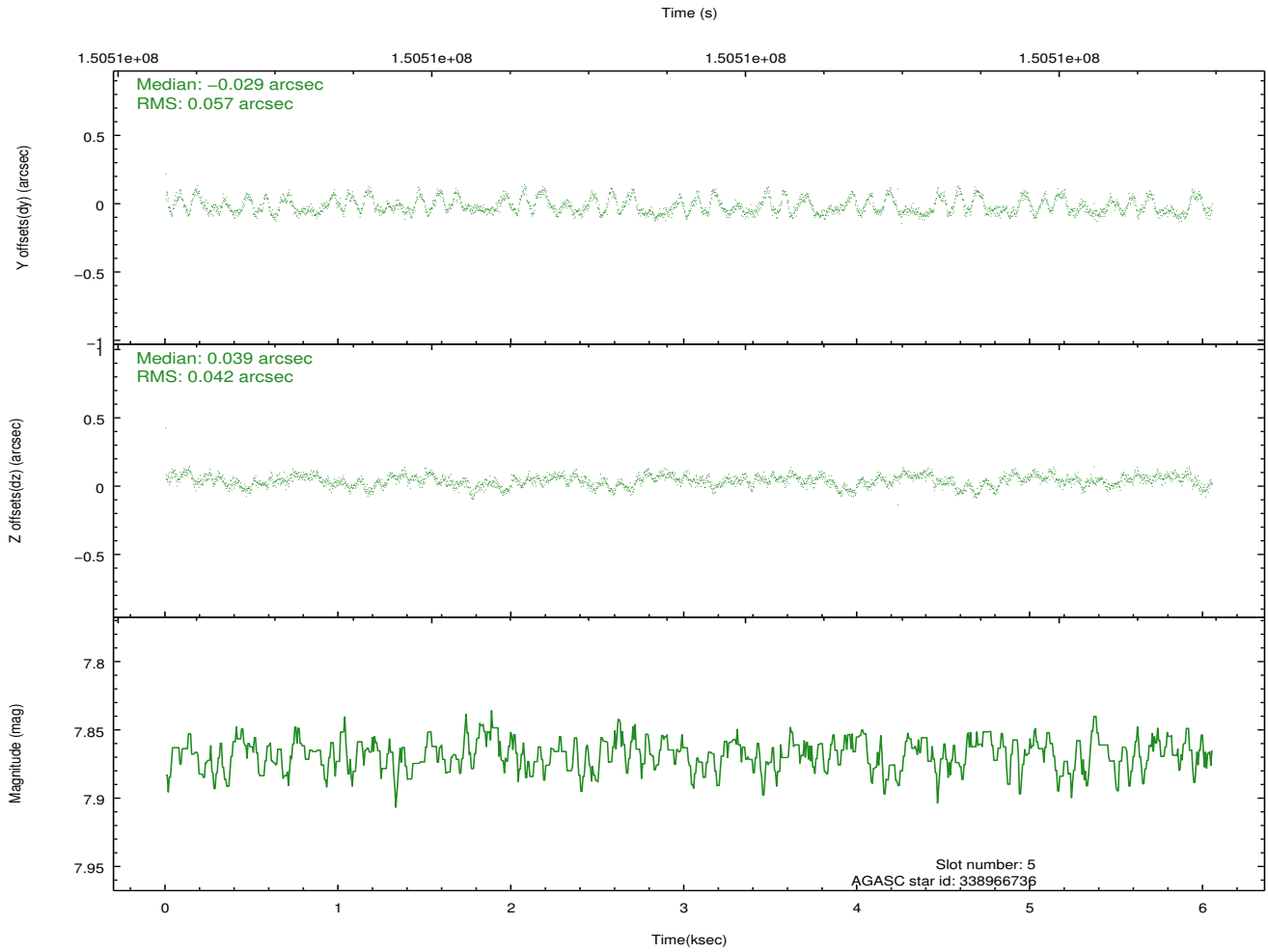
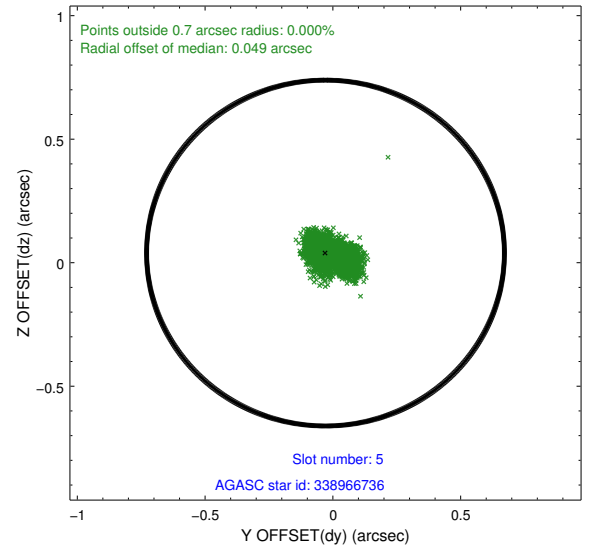
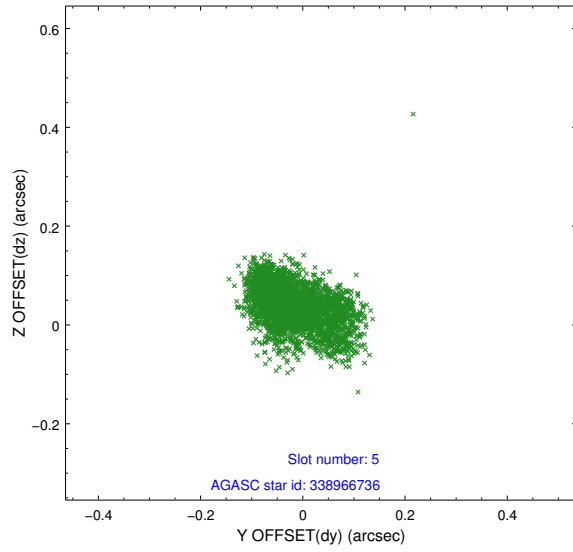
### 2.4.1 Slot 3



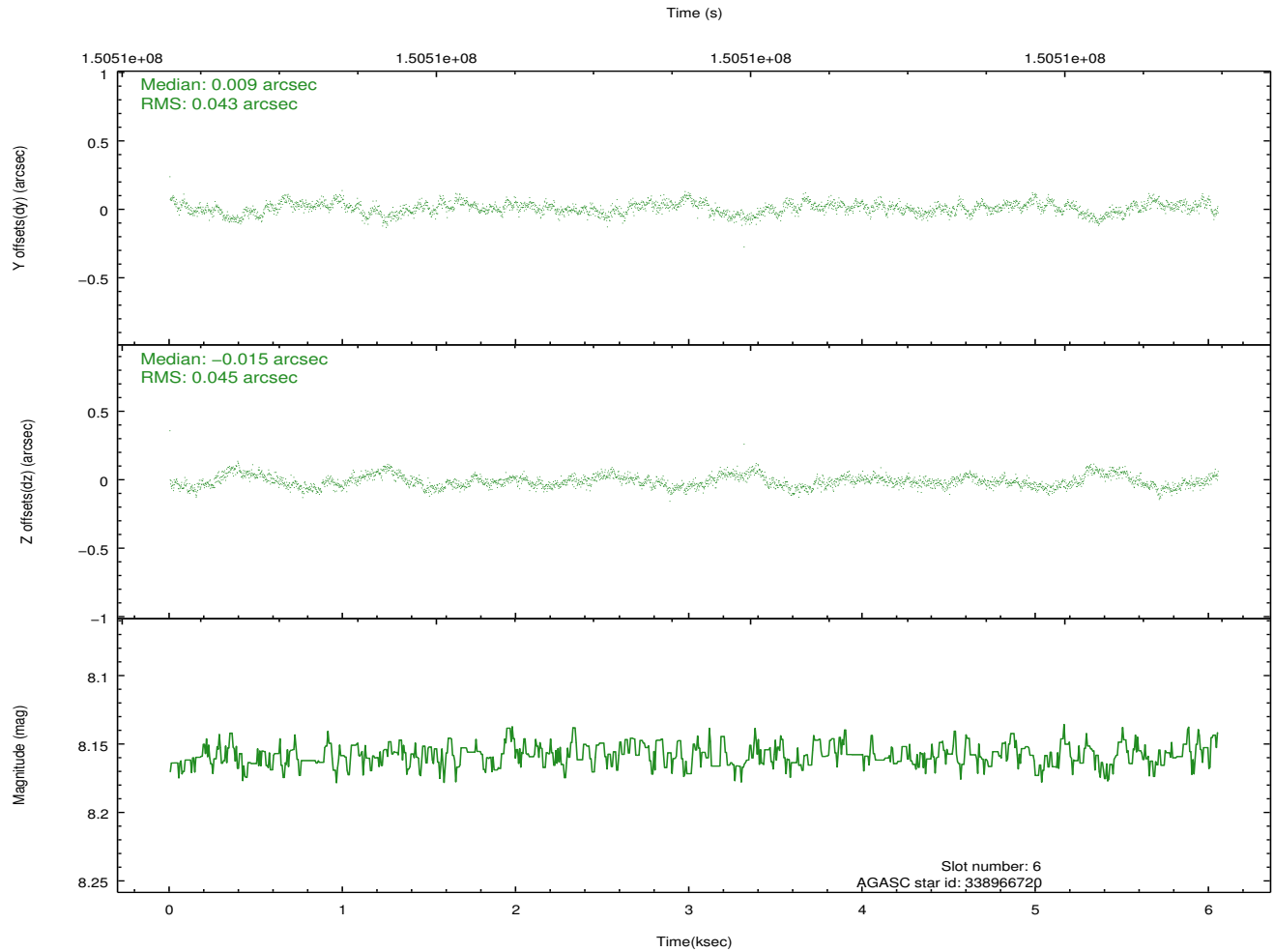
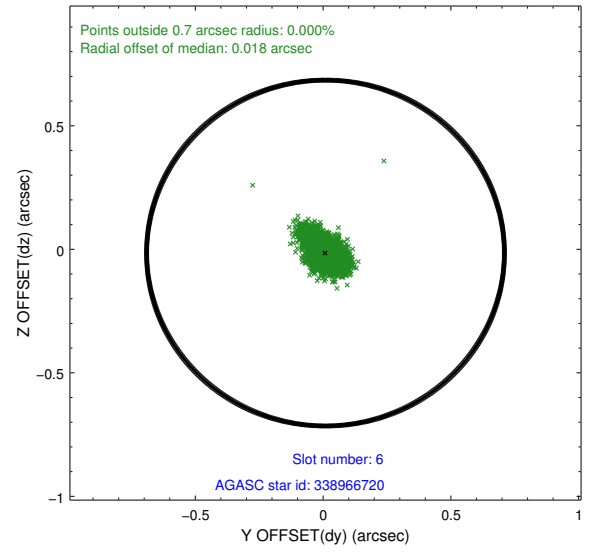
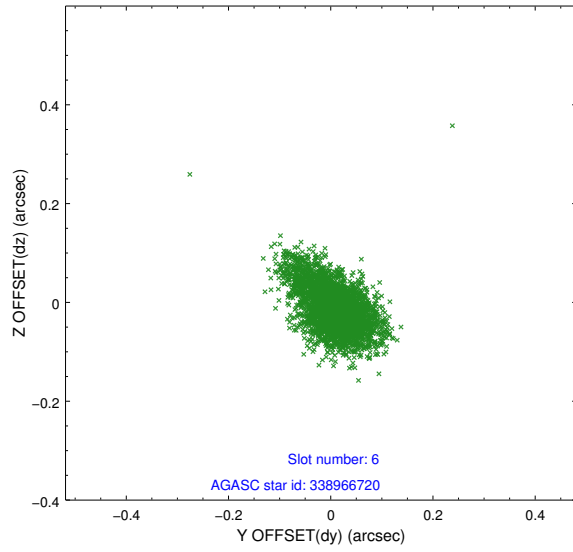
## 2.4.2 Slot 4



### 2.4.3 Slot 5

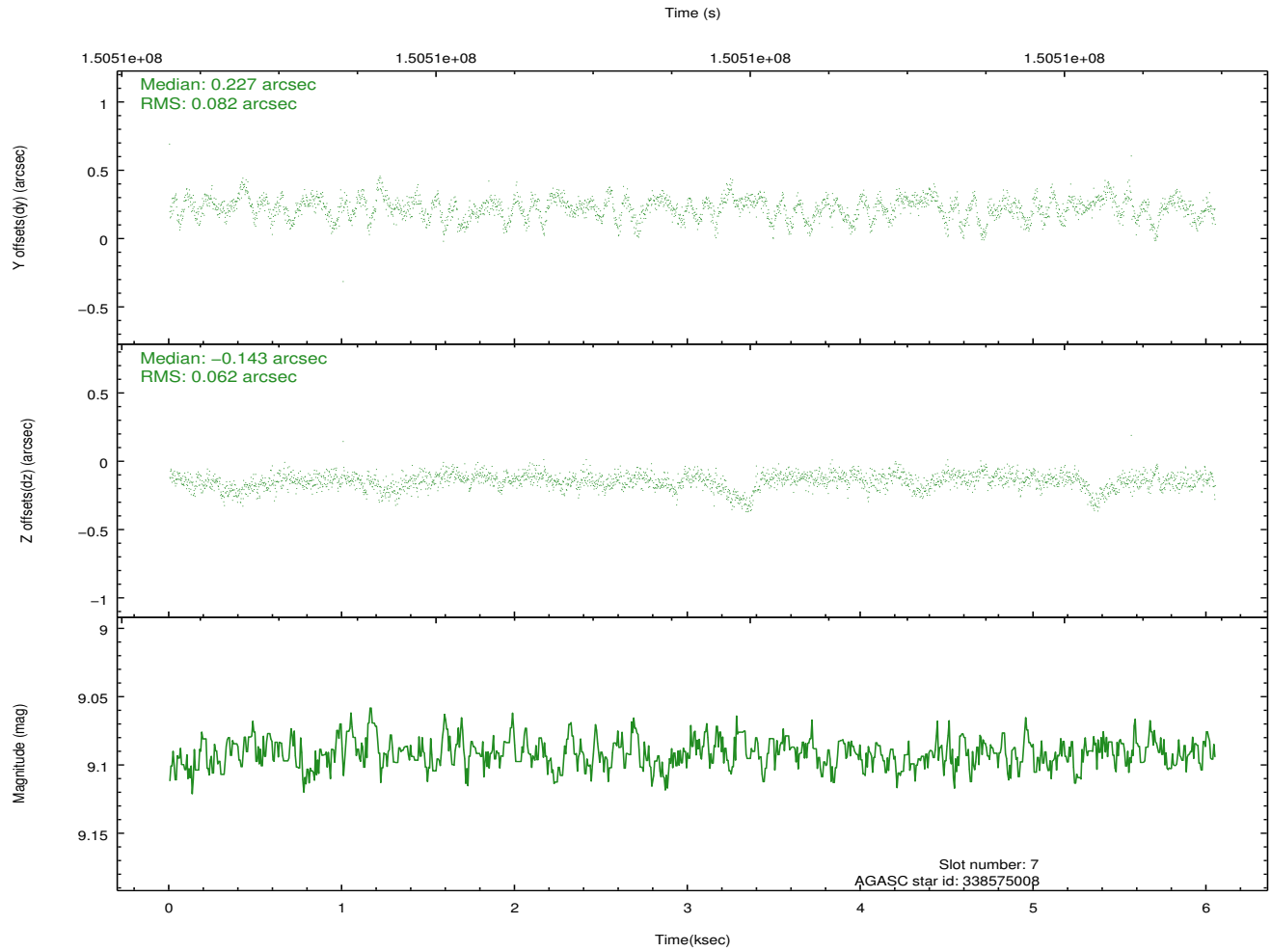
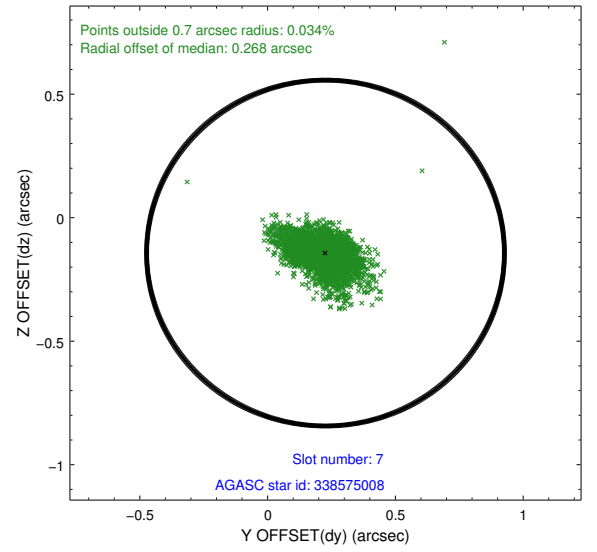
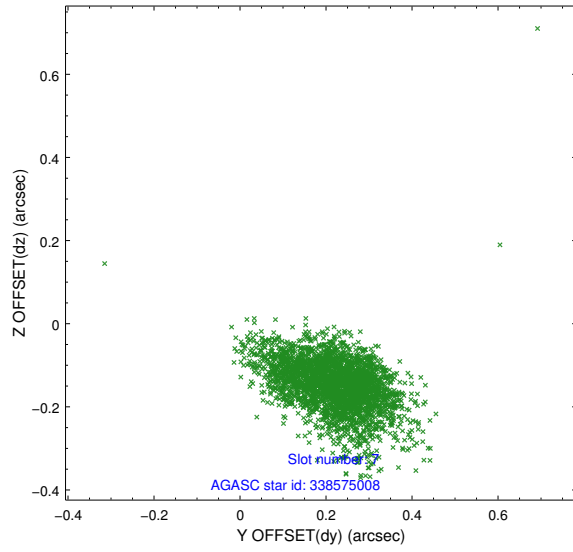


## 2.4.4 Slot 6



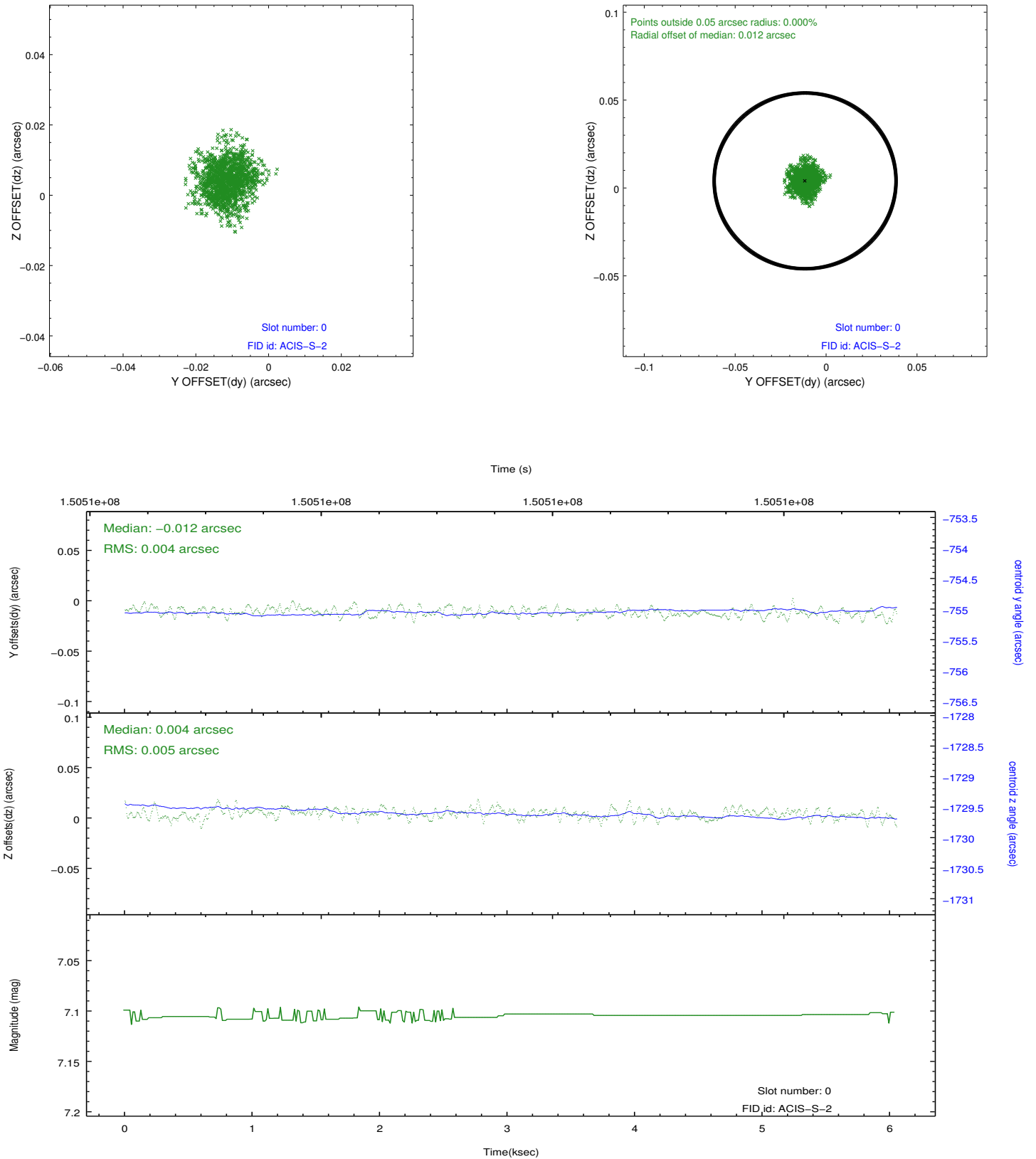


## 2.4.5 Slot 7

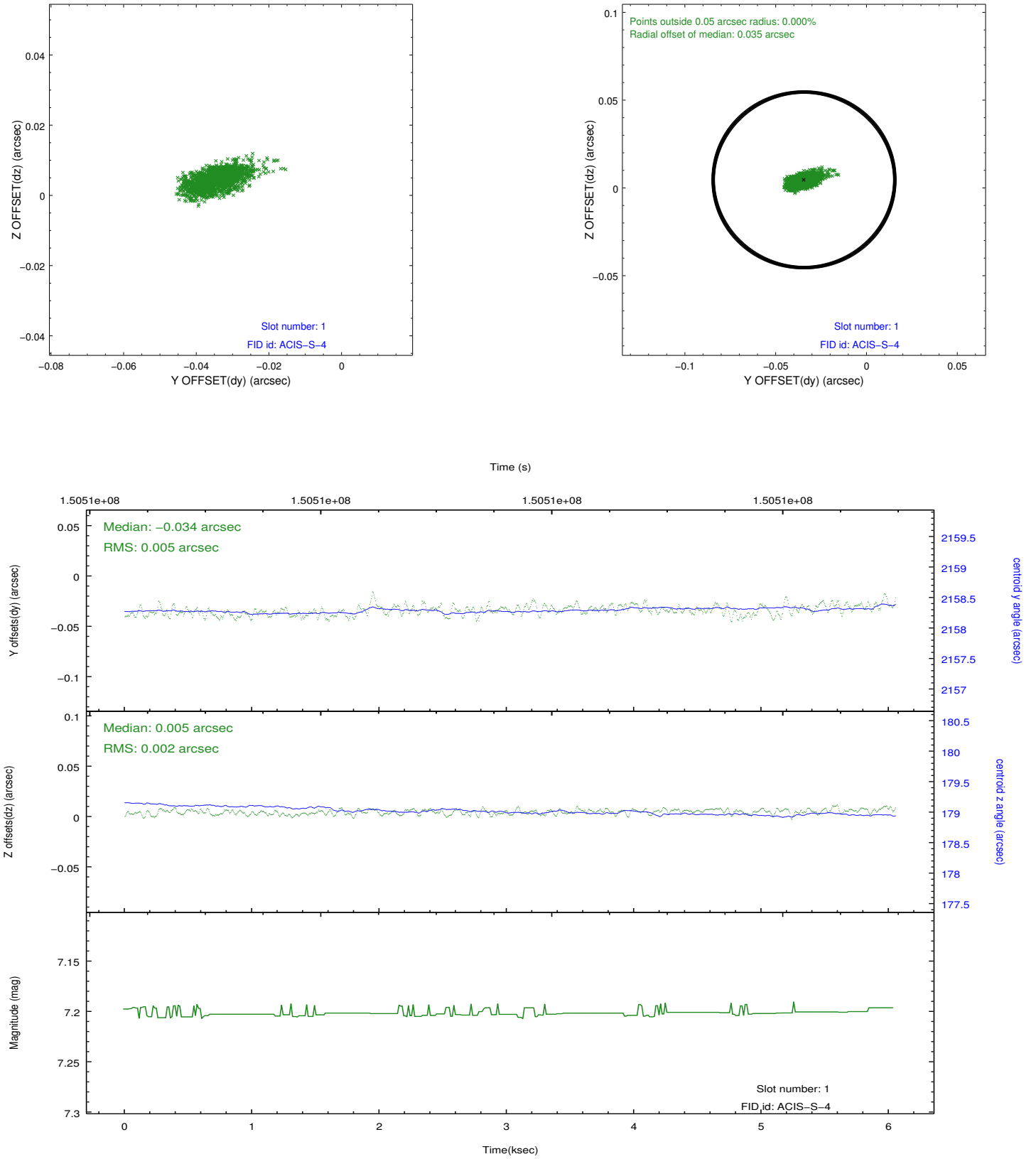


## 2.5 FID Slots

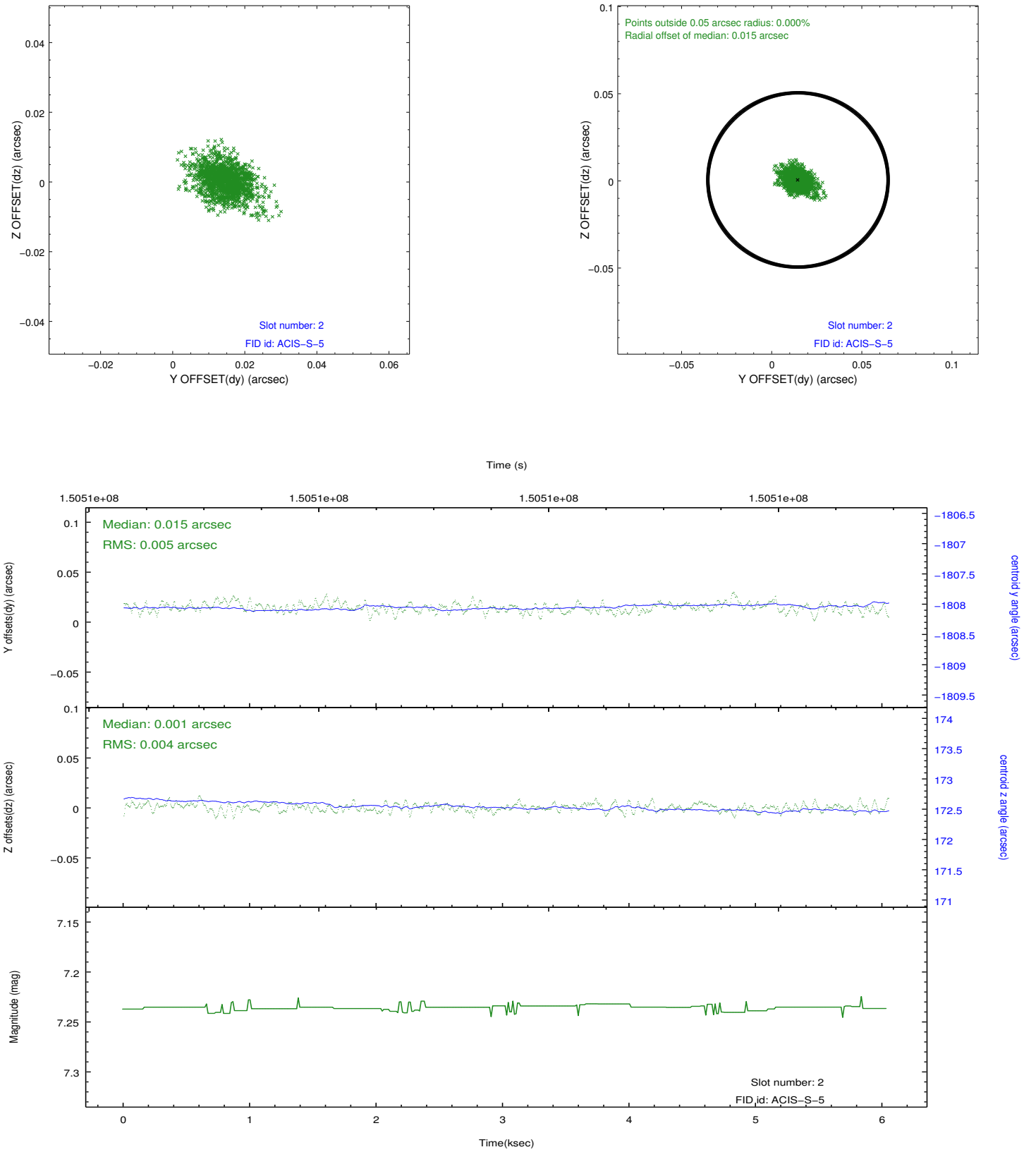
### 2.5.1 Slot 0



## 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)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.161

## A.2 Comments

Joint Proposal: NOAO