

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 5702 - L2 Version 3  
Chandra X-Ray Center

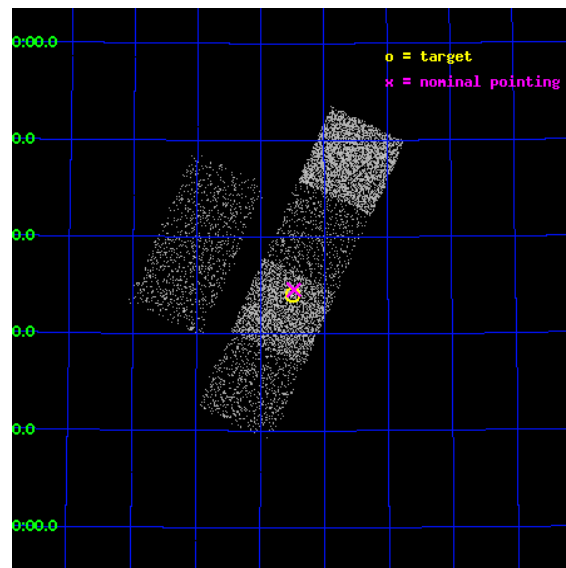
L2 Processing Date : Dec 15 2012

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# 1 Front

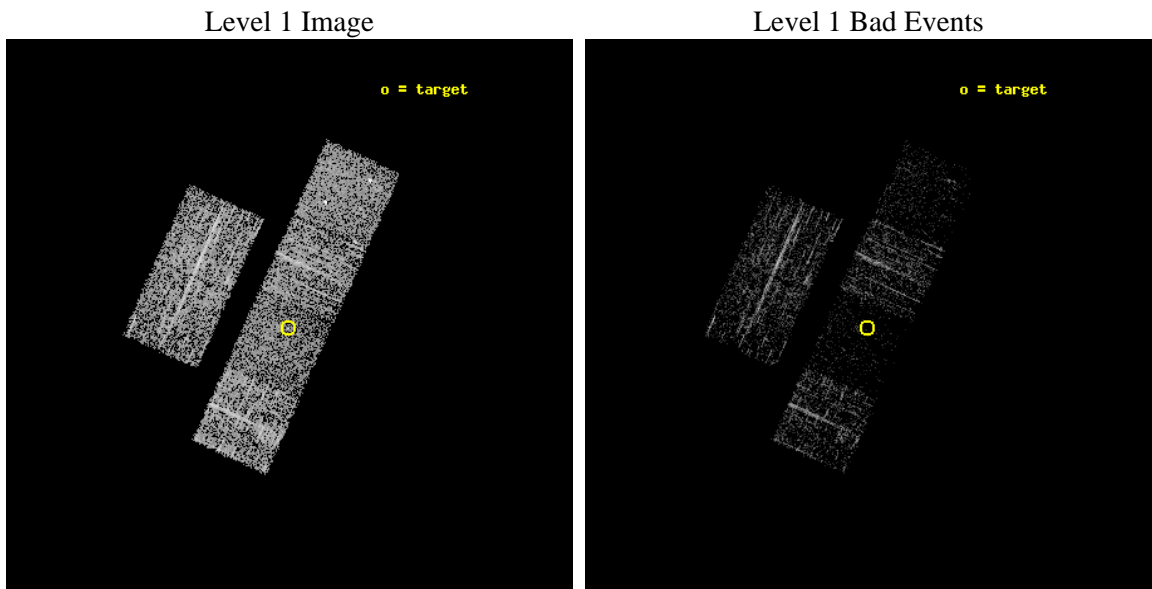
seq_num	701124	Sequence number
obs_id	5702	Observation id
title	A Uniform Chandra Survey of the Brightest and Most Extreme SDSS BALQSOs	Proposal title
observer	Dr. Scott Anderson	Principal investigator
object	SDSS J095929.89+633359.9	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.874583	Observer's specified target RA [deg]
dec_targ	63.566639	Observer's specified target Dec [deg]
ra_nom	149.86898282777	Nominal RA [deg]
dec_nom	63.576075047797	Nominal Dec [deg]
roll_nom	114.30001662442	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1545.5999942422	Sum of GTIs [s]
livetime	1526.0286764665	Livetime [s]
ontime2	1545.5999942422	Sum of GTIs [s]
ontime3	1545.5999942422	Sum of GTIs [s]
ontime5	1545.5999942422	Sum of GTIs [s]
ontime6	1545.5999942422	Sum of GTIs [s]
ontime7	1545.5999942422	Sum of GTIs [s]
ontime8	1545.5999942422	Sum of GTIs [s]
l2events	9747	Number of level 2 events



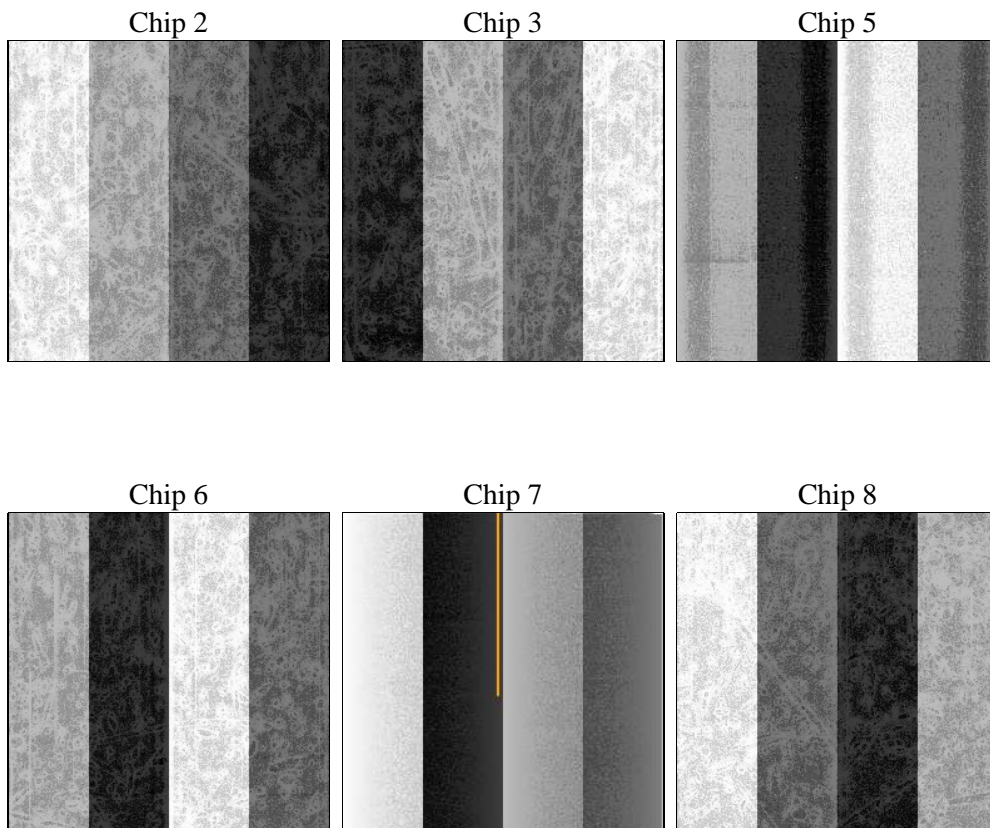
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1500.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	1545.5999942422	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime2	1545.5999942422	Sum of GTIs [s]
date	2012-12-15T05:11:09	Date and time of file creation	ontime3	1545.5999942422	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	1545.5999942422	Sum of GTIs [s]
			ontime6	1545.5999942422	Sum of GTIs [s]
			ontime7	1545.5999942422	Sum of GTIs [s]
			ontime8	1545.5999942422	Sum of GTIs [s]
			l1events	49061	Number of level 1 events

### 2.1.4 Events

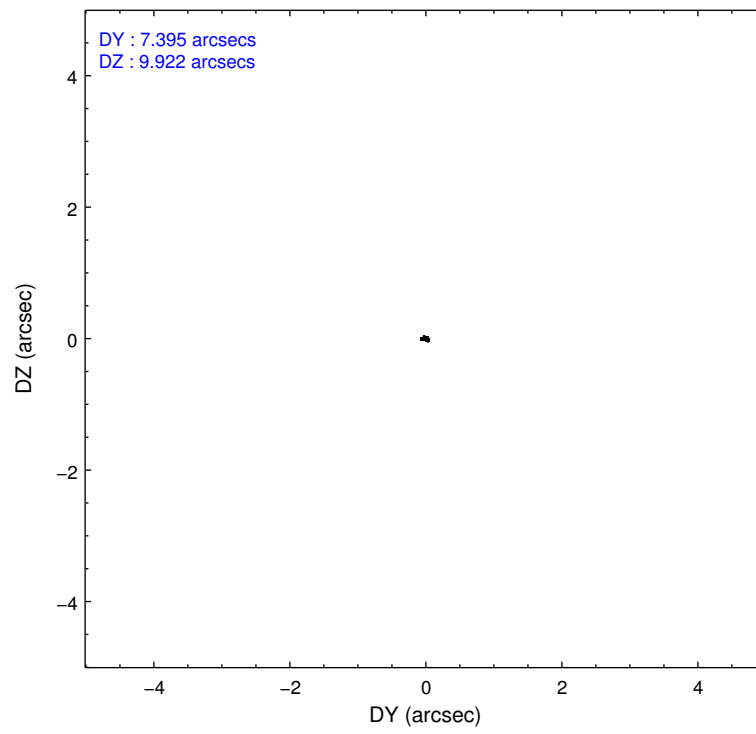
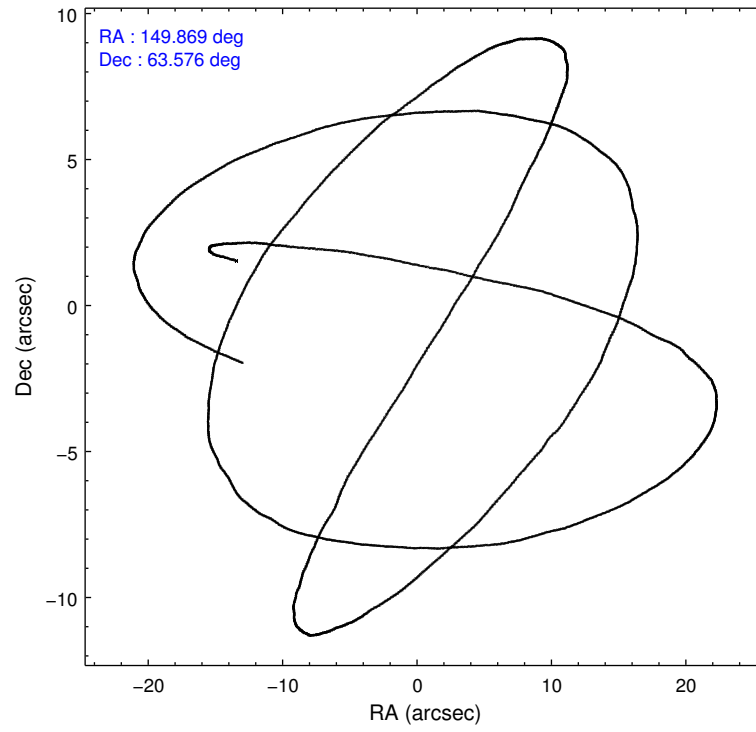
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	9903	7914	7798	8284	4994	10168
rejected events	9160	7147	2793	7448	1934	7386
rejected %	92%	90%	35%	89%	38%	72%

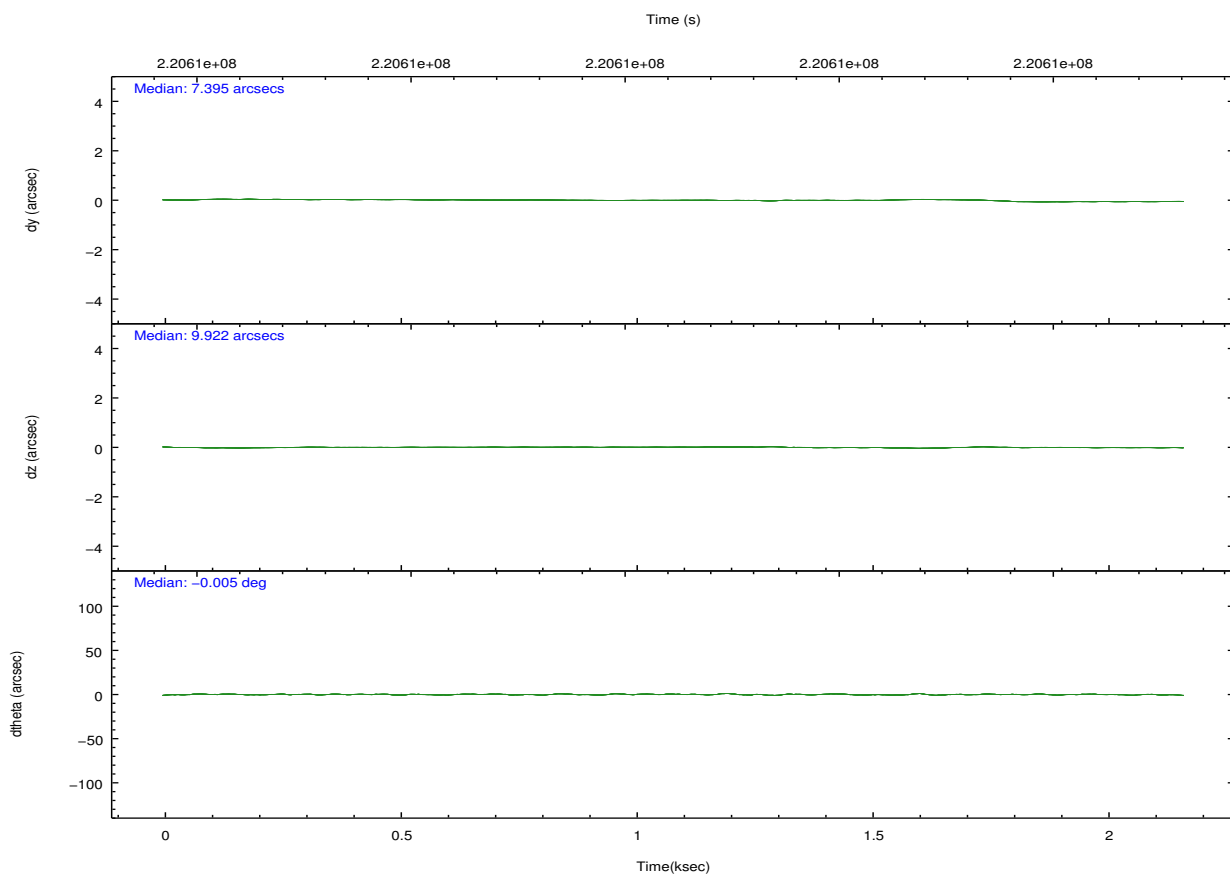
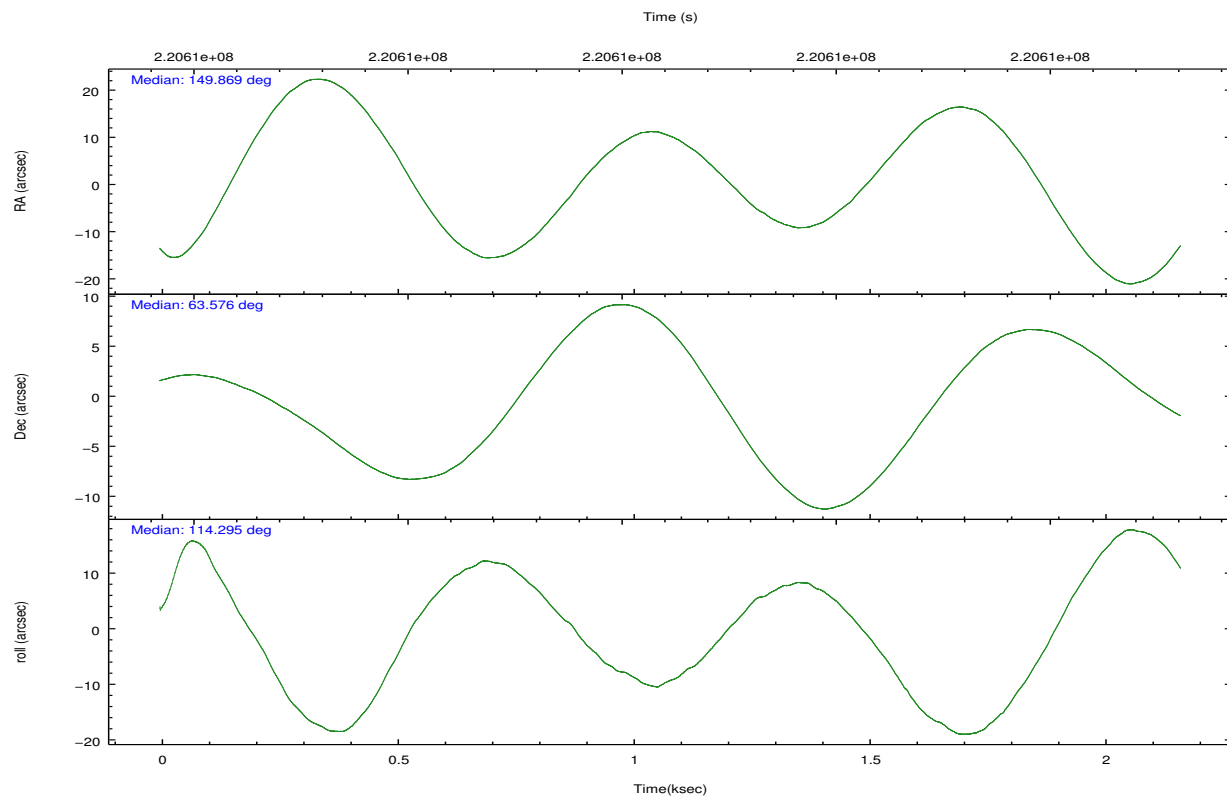
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	315	347	898	380	413	915
	3%	4%	11%	4%	8%	8%
grade 1 events	2	9	51	9	10	8
	0%	0%	0%	0%	0%	0%
grade 2 events	174	153	1547	158	740	564
	1%	1%	19%	1%	14%	5%
grade 3 events	72	83	294	91	297	358
	0%	1%	3%	1%	5%	3%
grade 4 events	86	81	291	86	317	324
	0%	1%	3%	1%	6%	3%
grade 5 events	135	139	634	169	482	230
	1%	1%	8%	2%	9%	2%
grade 6 events	97	109	1992	123	1310	629
	0%	1%	25%	1%	26%	6%
grade 7 events	9022	6993	2091	7268	1425	7140
	91%	88%	26%	87%	28%	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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	149.919406	149.8689828277736	Subarray requested	NONE	NONE
[deg] Pointing Dec	63.560421	63.57607504779723	Alternating exposures requested	N	N
[deg] Pointing Roll	114.098317	114.3000166244155	[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)	220610690.184000	220609442.43529			
Observation start date	2004-12-28T08:43:46	2004-12-28T08:24:02			
[s] Observation end time (MET)	220612190.184000	220613129.36046			
Observation end date	2004-12-28T09:08:46	2004-12-28T09:25:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect





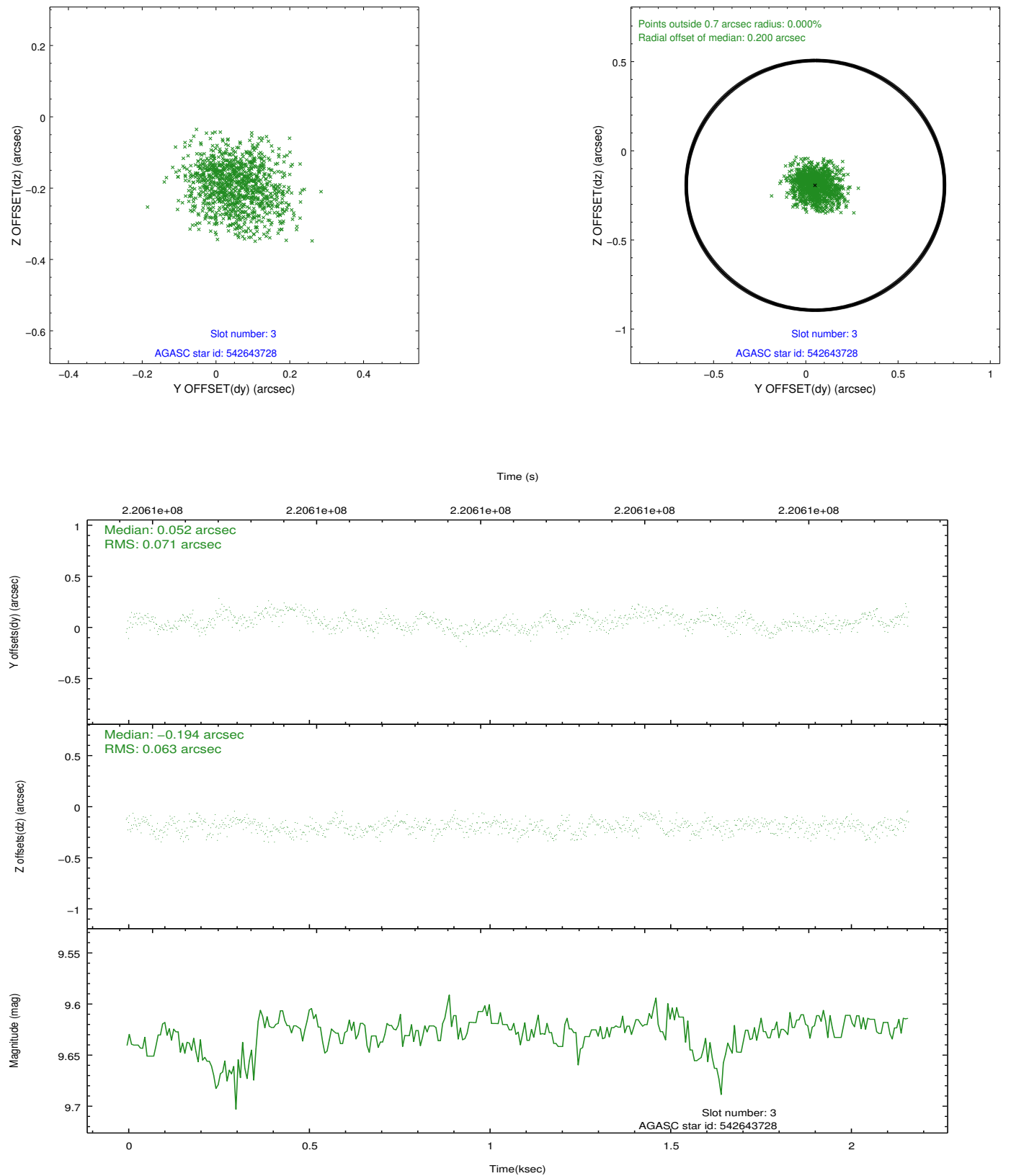
### Slot Statistics

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	528	-0.052	-0.031	0.008	0.012	0.000000	0.000000	-760.16	-1731.21
1	FID	ACIS-S-4	7.21	528	0.106	0.033	0.006	0.011	0.000000	0.000000	2151.86	174.29
2	FID	ACIS-S-5	7.23	528	-0.085	0.006	0.007	0.013	0.000000	0.000000	-1809.21	171.26
3	GUIDE	542643728	9.63	1053	0.052	-0.194	0.102	0.158	148.677261	63.203163	-333.46	2357.08
4	GUIDE	542647296	8.96	1056	0.132	0.001	0.062	0.102	150.192049	62.992562	-2047.63	429.46
5	GUIDE	542647800	9.14	1057	-0.115	-0.095	0.071	0.119	148.842955	63.723840	1248.39	1320.19
6	GUIDE	542648168	9.04	1057	-0.077	0.145	0.067	0.110	149.691594	63.875573	1184.71	-132.47
7	GUIDE	542648640	8.99	1053	0.005	0.145	0.072	0.117	150.733711	63.548455	-563.78	-1177.87

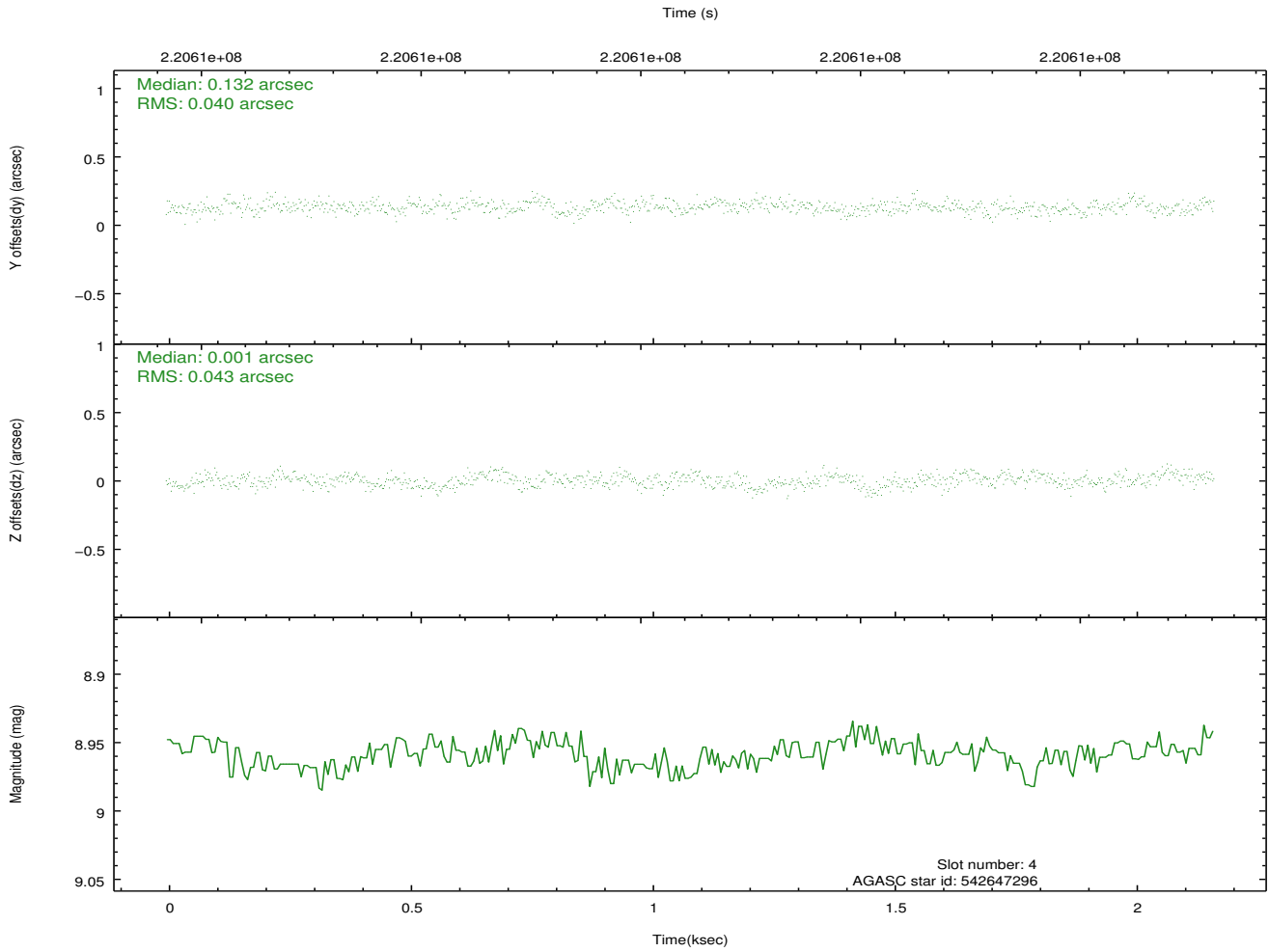
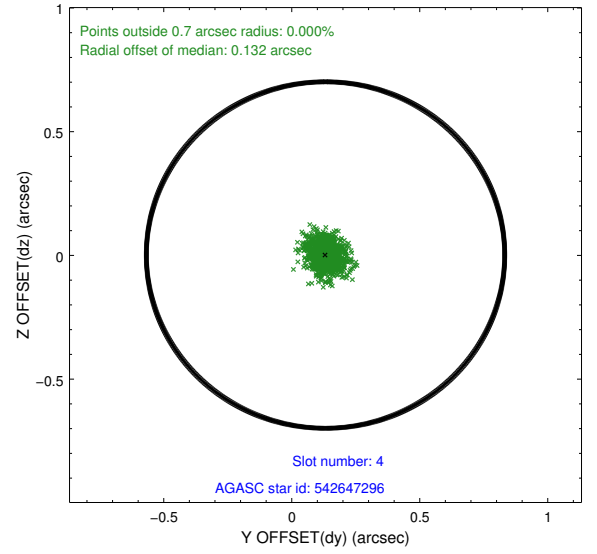
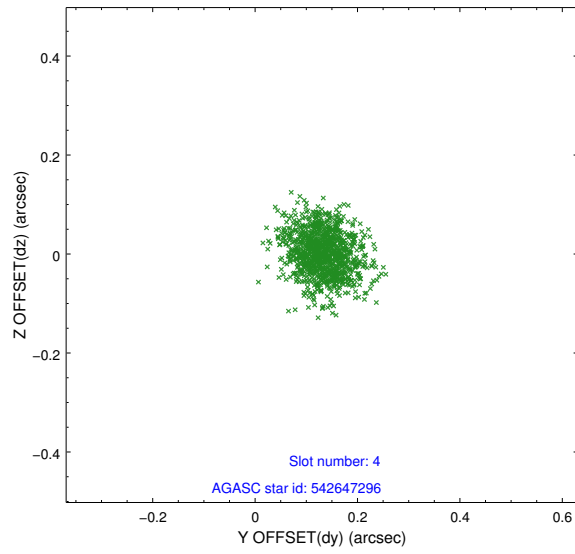


## 2.4 Star Slots

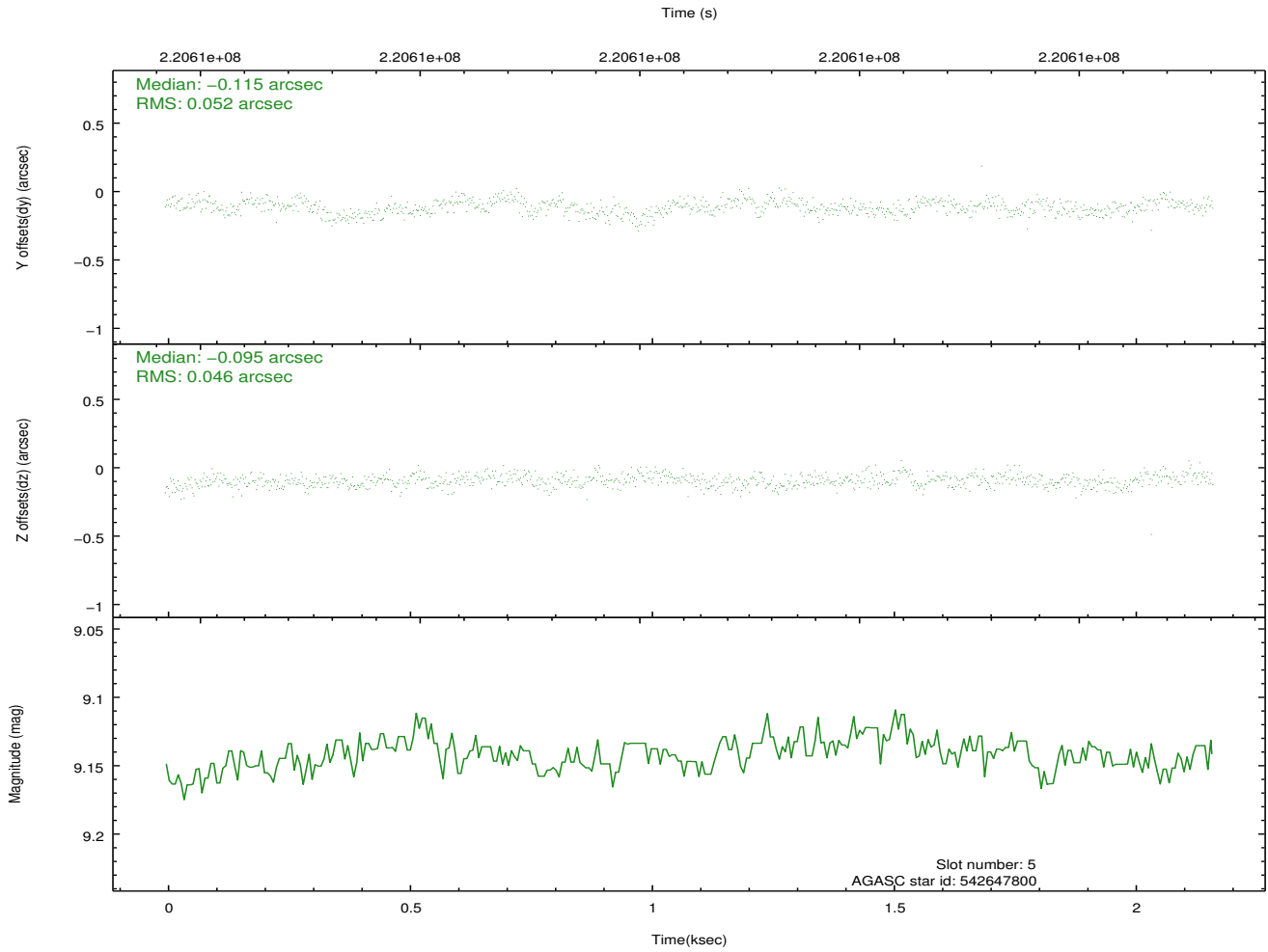
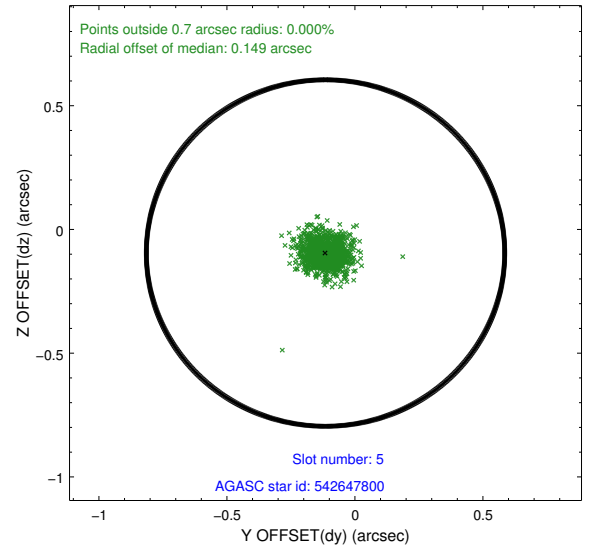
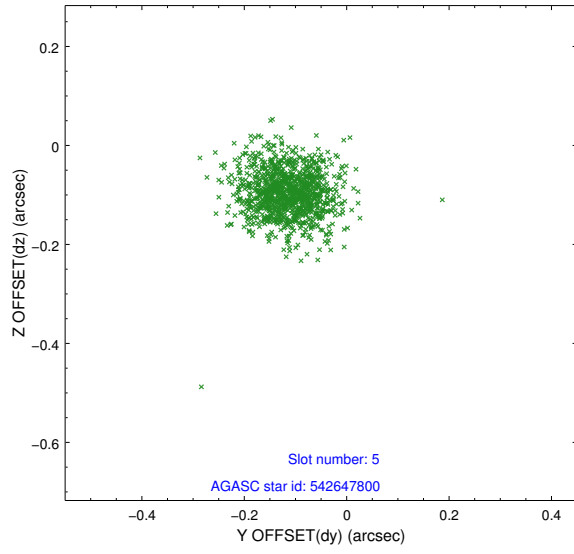
### 2.4.1 Slot 3



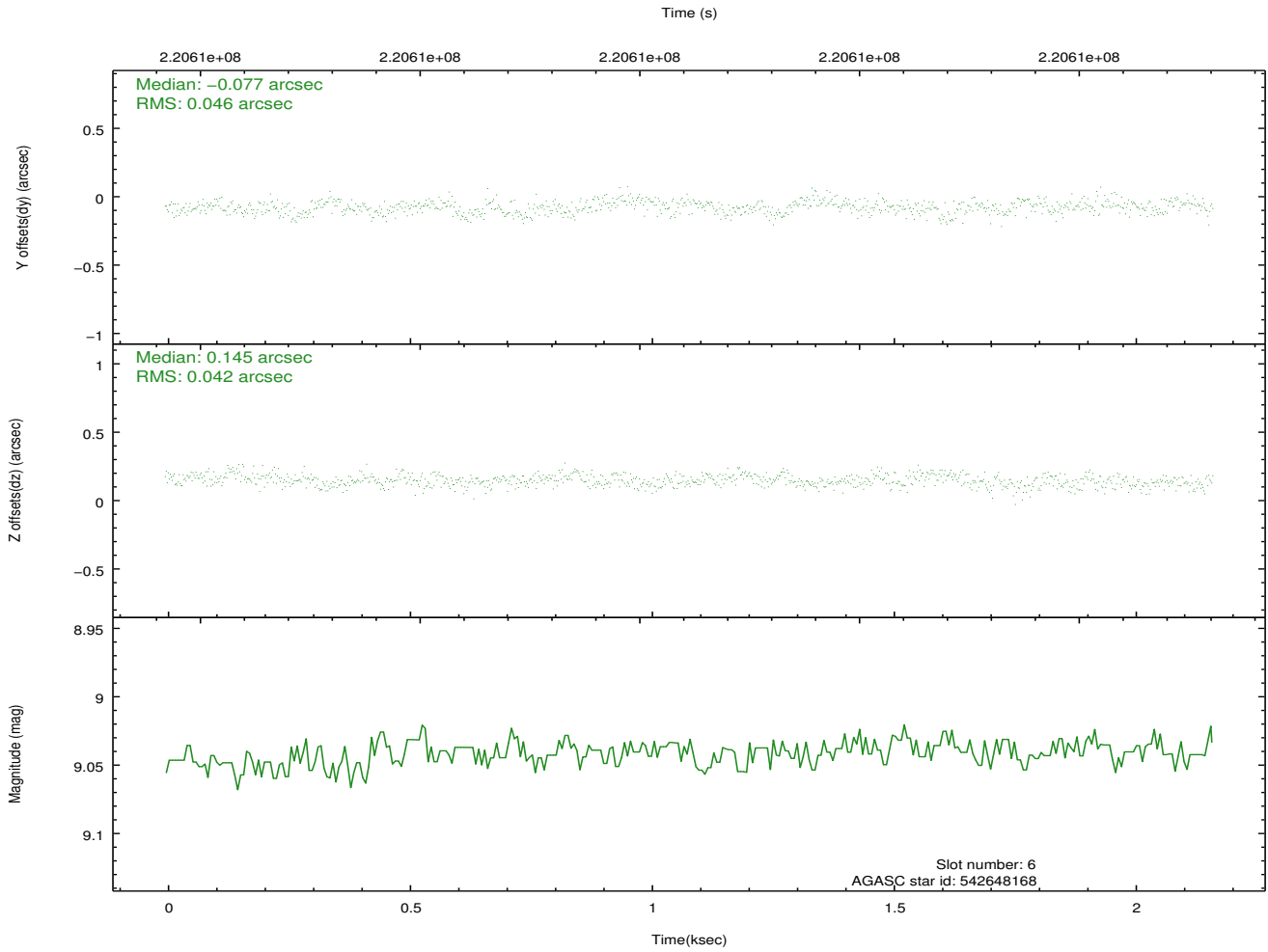
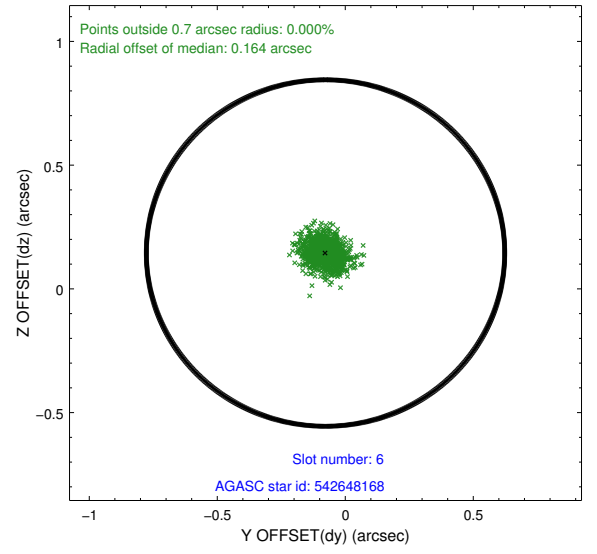
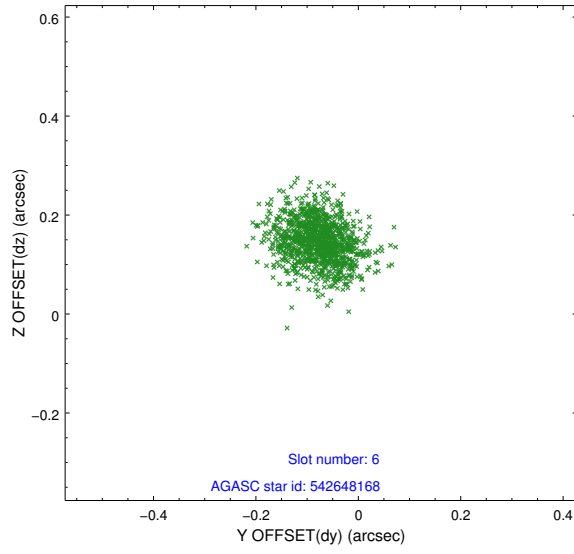
## 2.4.2 Slot 4



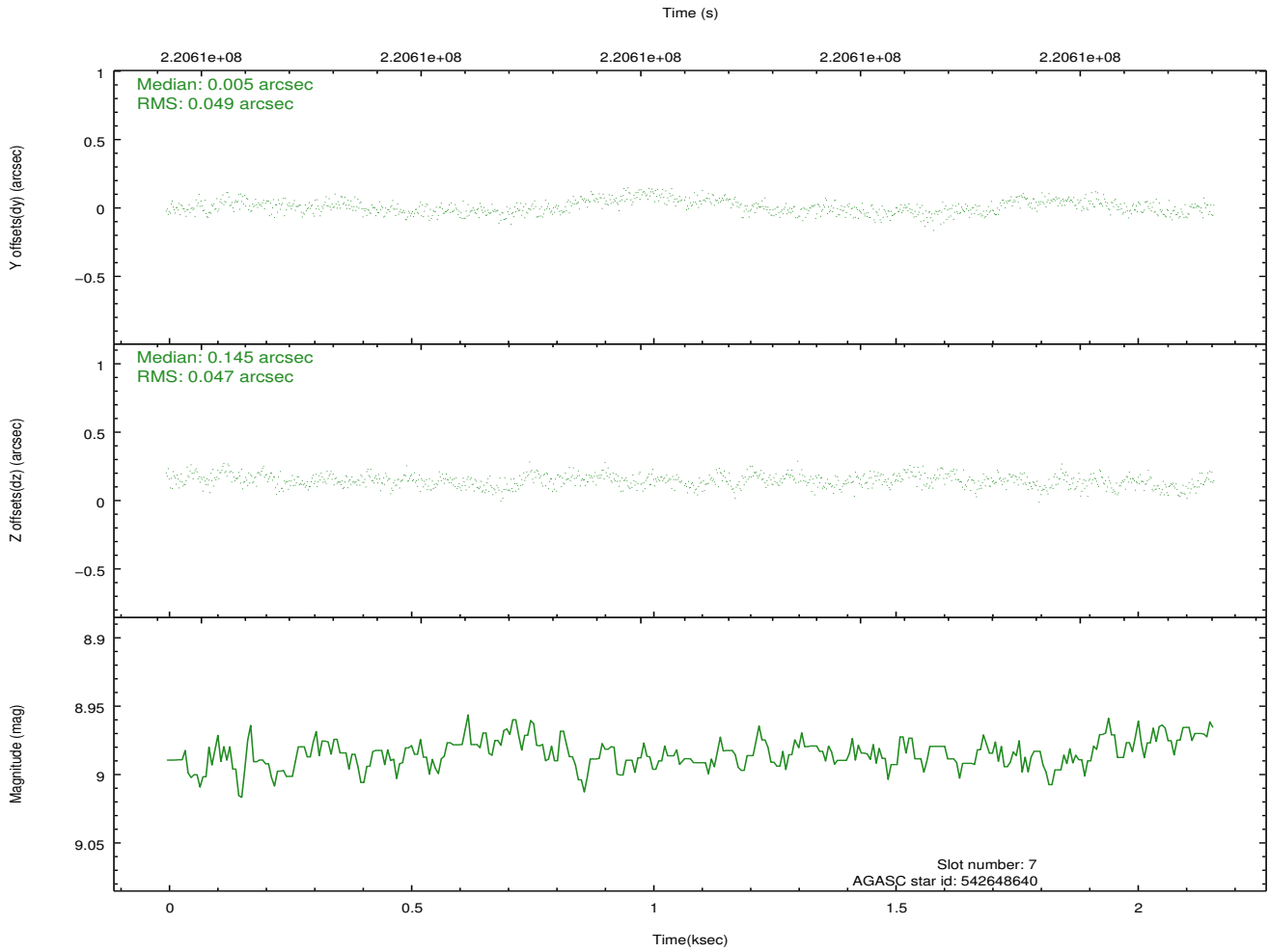
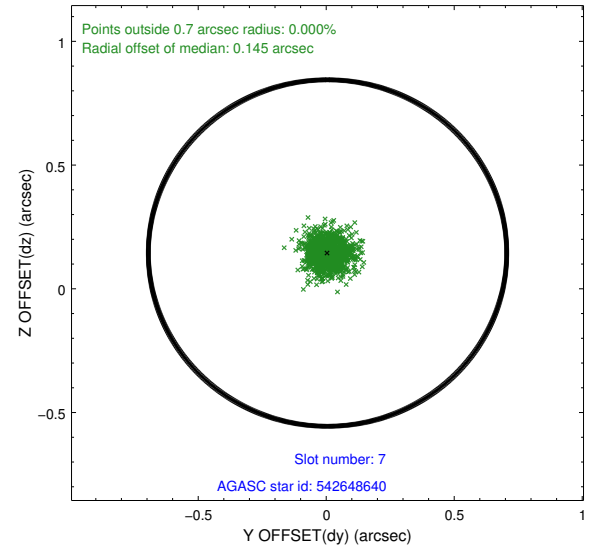
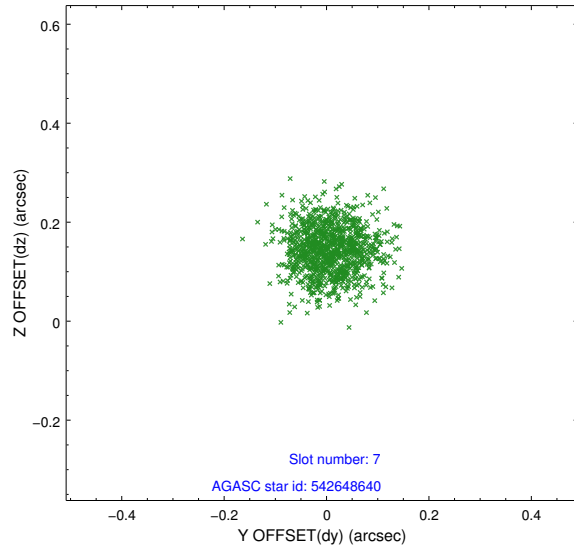
### 2.4.3 Slot 5



## 2.4.4 Slot 6

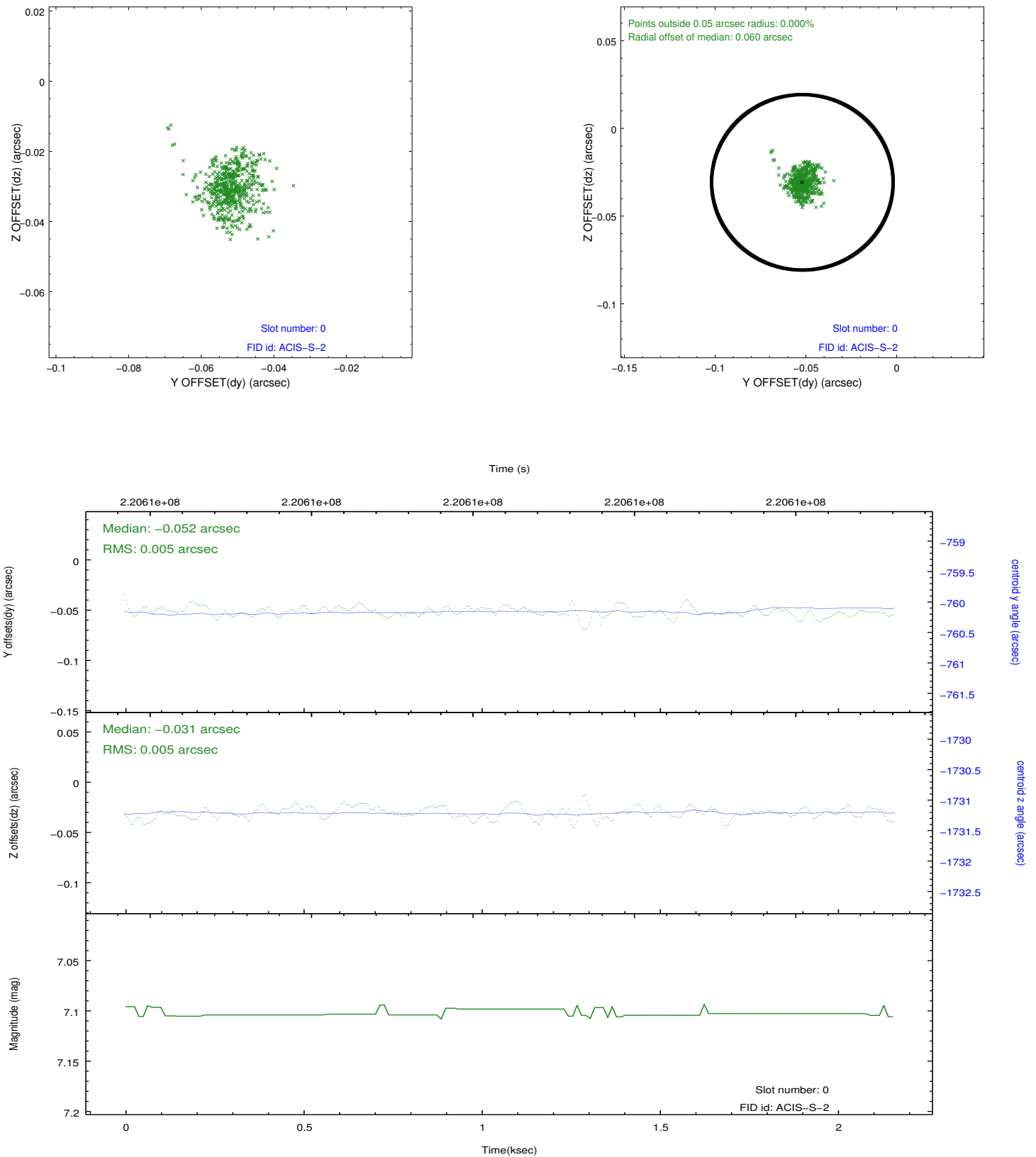


## 2.4.5 Slot 7

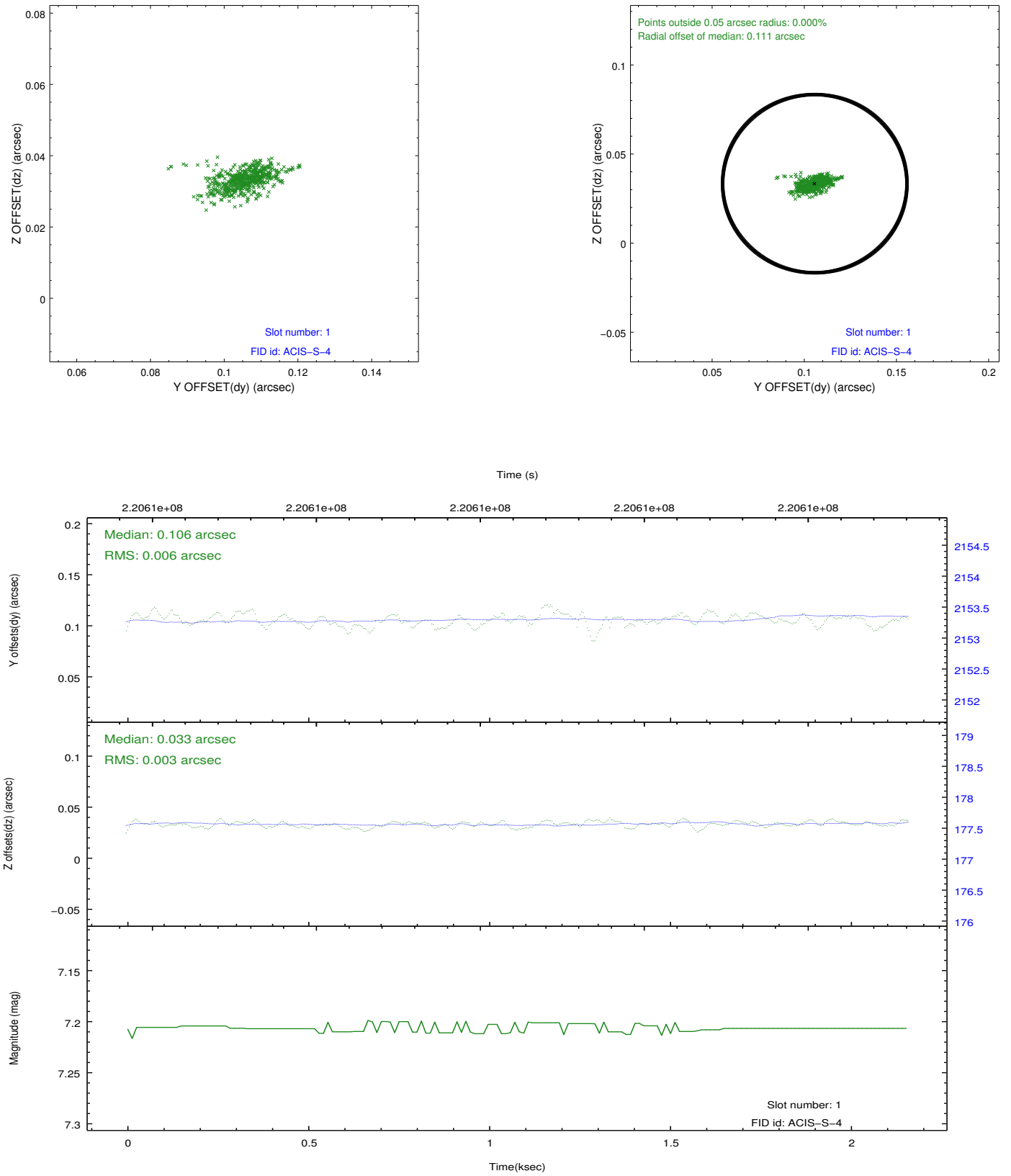


## 2.5 FID Slots

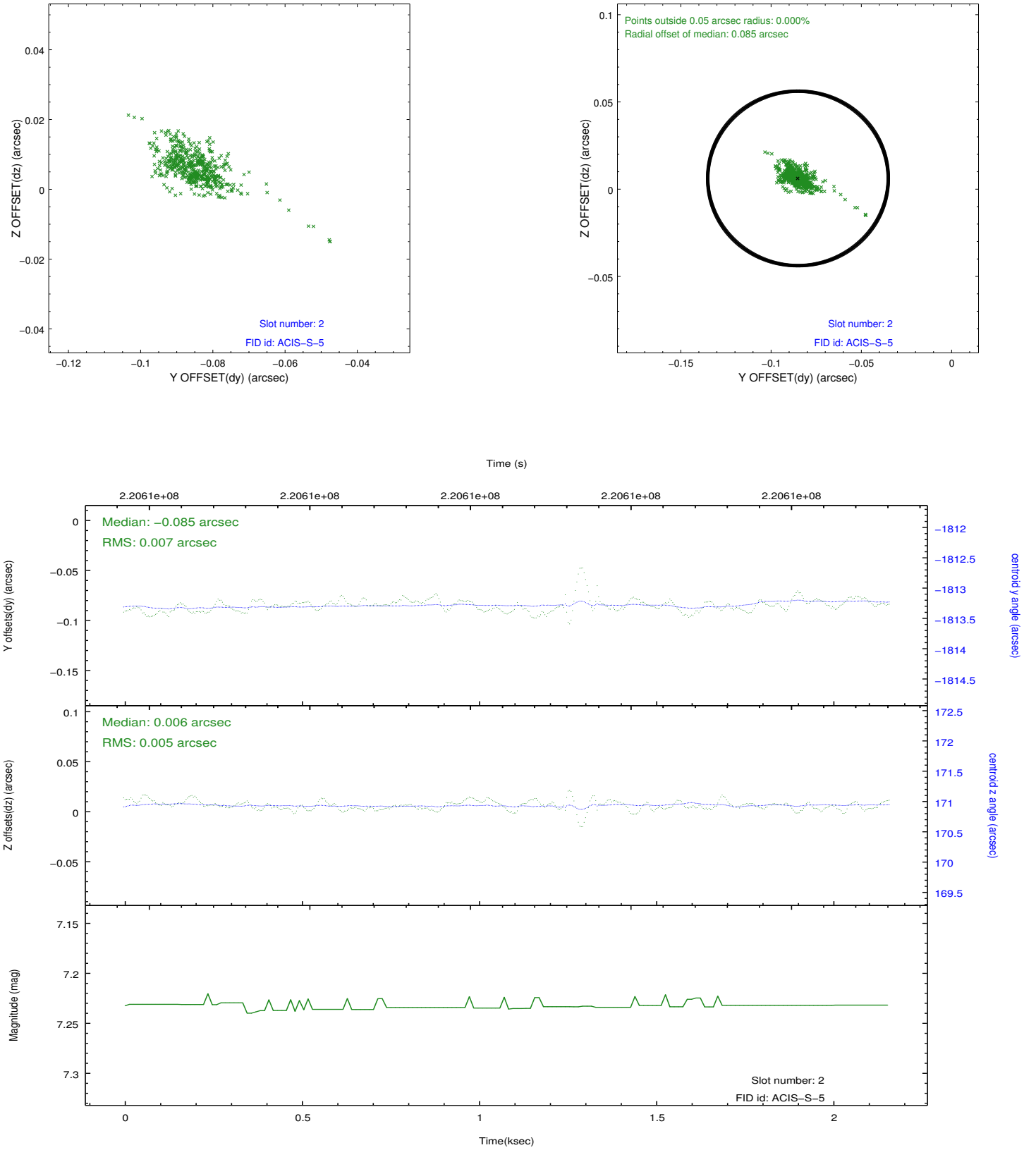
### 2.5.1 Slot 0



## 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)	2013.01.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.545599

### A.2 Comments