

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4704 - L2 Version 3  
Chandra X-Ray Center

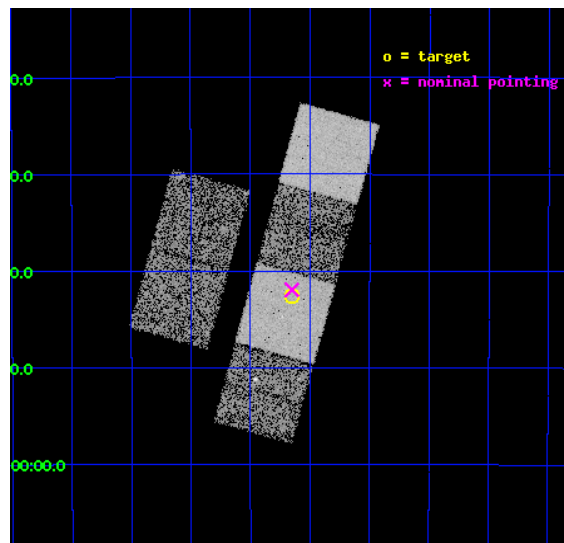
L2 Processing Date : Dec 3 2012

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# 1 Front

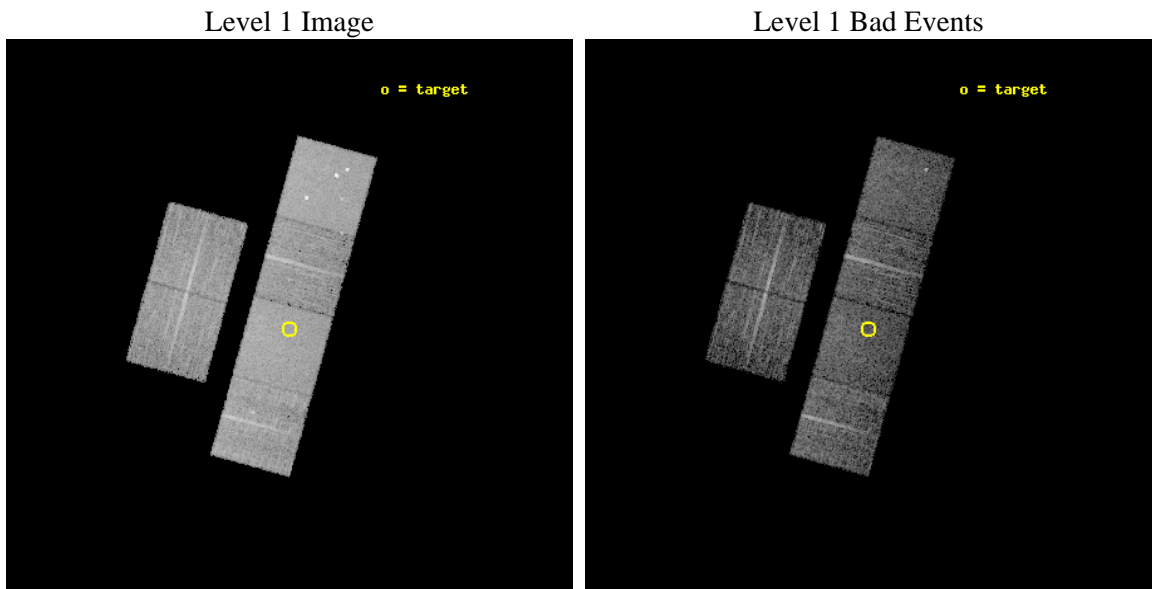
seq_num	600359	Sequence number
obs_id	4704	Observation id
title	Using the Sculptor Dwarf Spheroidal Galaxy to Constrain X-ray Binary Production in Population II	Proposal title
observer	Dr Thomas Maccarone	Principal investigator
object	SCULPTOR DWARF SPHEROIDAL	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.039167	Observer's specified target RA [deg]
dec_targ	-33.708889	Observer's specified target Dec [deg]
ra_nom	15.038025016226	Nominal RA [deg]
dec_nom	-33.699212470468	Nominal Dec [deg]
roll_nom	105.43387869549	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5990.399977684	Sum of GTIs [s]
livetime	5914.5459261808	Livetime [s]
ontime2	5990.399977684	Sum of GTIs [s]
ontime3	5990.399977684	Sum of GTIs [s]
ontime5	5990.399977684	Sum of GTIs [s]
ontime6	5987.1590074003	Sum of GTIs [s]
ontime7	5990.399977684	Sum of GTIs [s]
ontime8	5990.399977684	Sum of GTIs [s]
l2events	71576	Number of level 2 events



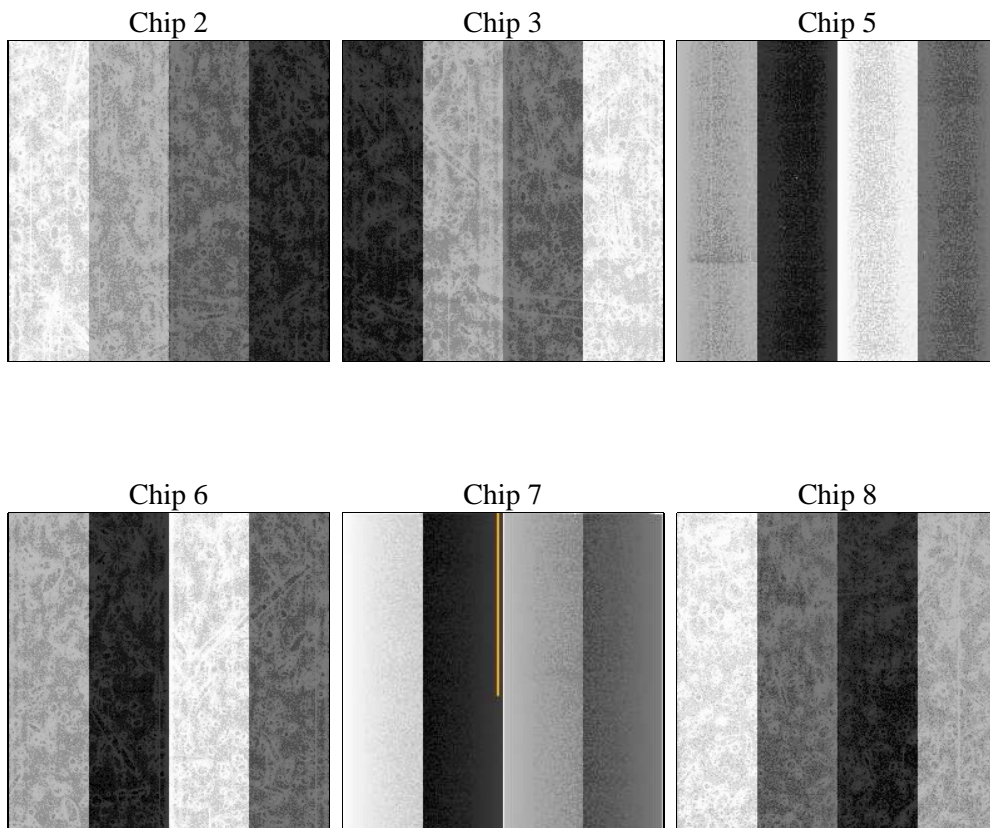
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5990.399977684	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	5990.399977684	Sum of GTIs [s]
date	2012-12-03T20:36:18	Date and time of file creation	ontime3	5990.399977684	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5990.399977684	Sum of GTIs [s]
			ontime6	5987.1590074003	Sum of GTIs [s]
			ontime7	5990.399977684	Sum of GTIs [s]
			ontime8	5990.399977684	Sum of GTIs [s]
			l1events	316692	Number of level 1 events

### 2.1.4 Events

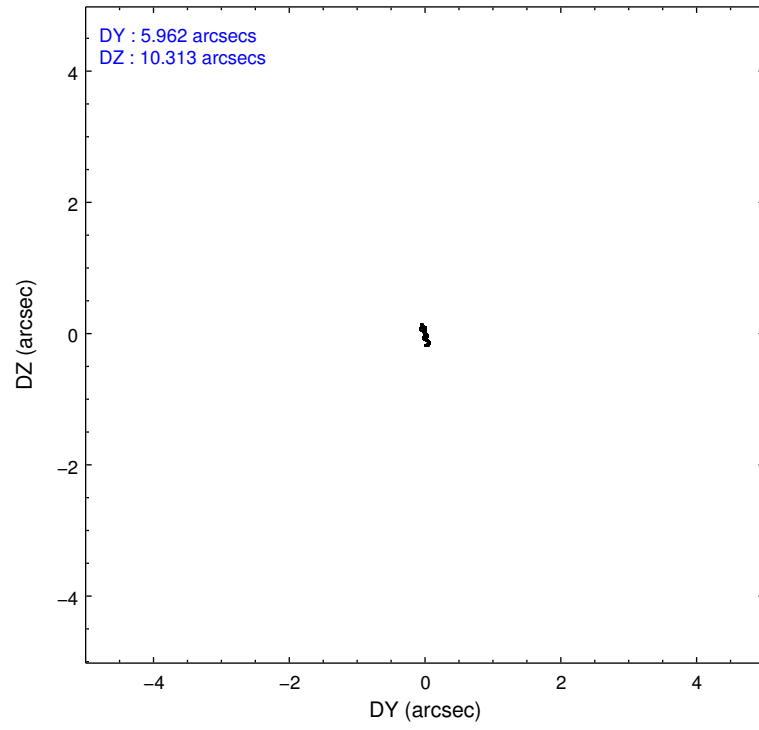
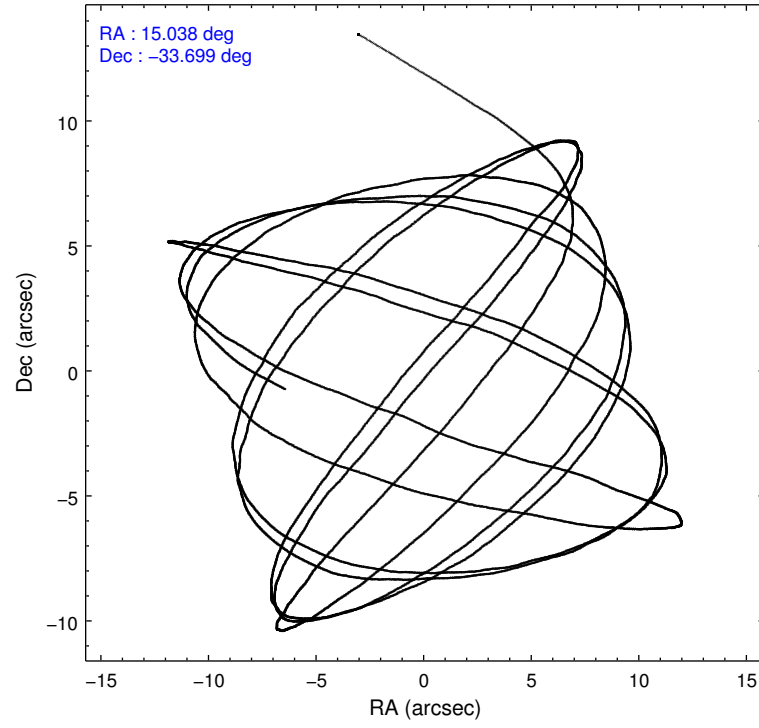
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	44802	42836	69180	44186	60057	55631	grade 0 events	2399	2369	5474	2100	2190	3903
rejected events	39559	37538	36246	38878	35216	43363		5%	5%	7%	4%	3%	7%
rejected %	88%	87%	52%	87%	58%	77%	grade 1 events	33	34	73	21	59	38
								0%	0%	0%	0%	0%	0%
							grade 2 events	1057	992	9345	1101	4925	2650
								2%	2%	13%	2%	8%	4%
							grade 3 events	451	472	1135	525	2225	1380
								1%	1%	1%	1%	3%	2%
							grade 4 events	469	530	1079	520	2178	1209
								1%	1%	1%	1%	3%	2%
							grade 5 events	1763	1889	4959	2043	5779	2554
								3%	4%	7%	4%	9%	4%
							grade 6 events	870	939	15924	1068	13343	3135
								1%	2%	23%	2%	22%	5%
							grade 7 events	37760	35611	31191	36808	29358	40762
								84%	83%	45%	83%	48%	73%

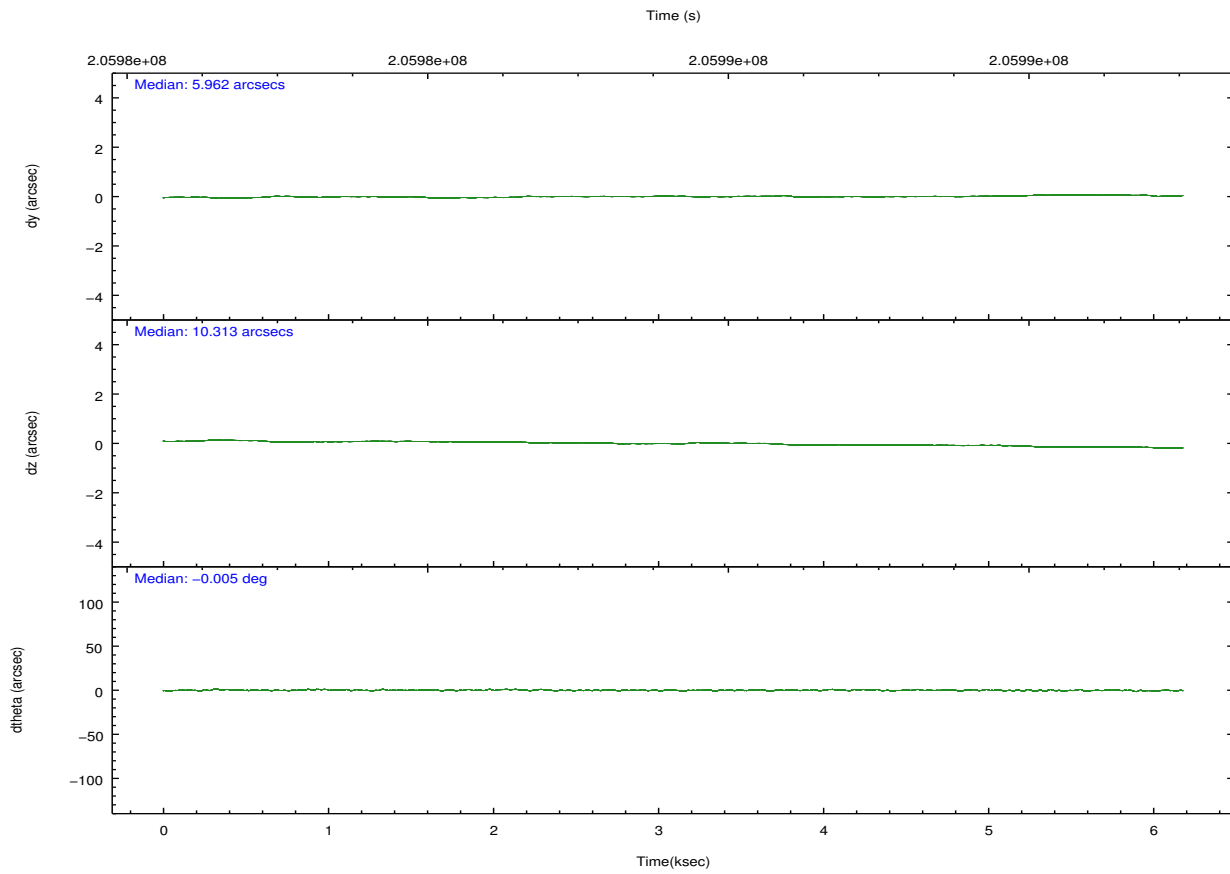
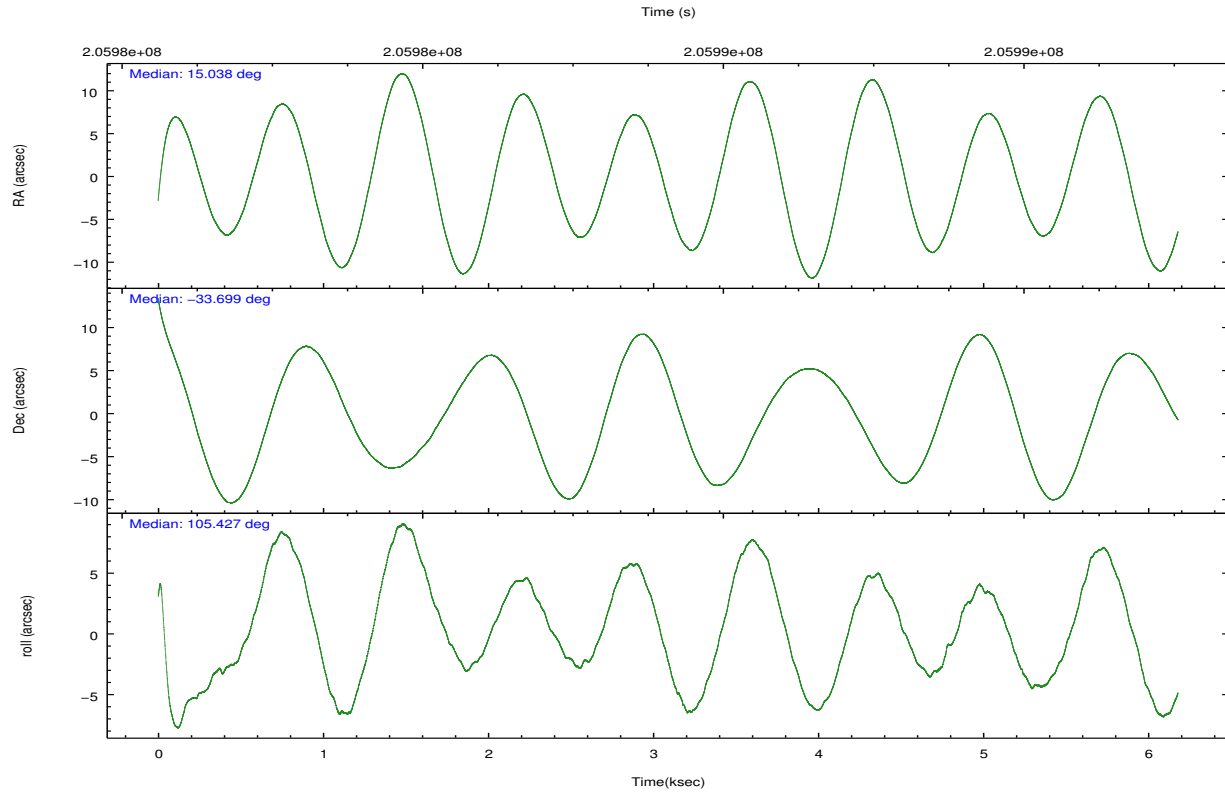


## 2.2 Compared Parameters

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.061715	15.03802501622603	Subarray requested	NONE	NONE
[deg] Pointing Dec	-33.718107	-33.69921247046823	Alternating exposures requested	N	N
[deg] Pointing Roll	105.290355	105.43387869549	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	205982722.184000	205981745.70627			
Observation start date	2004-07-12T01:24:18	2004-07-12T01:09:05			
[s] Observation end time (MET)	205988722.184000	205990232.19415			
Observation end date	2004-07-12T03:04:18	2004-07-12T03:30:32			
Read mode	TIMED	TIMED			

## 2.3 Aspect



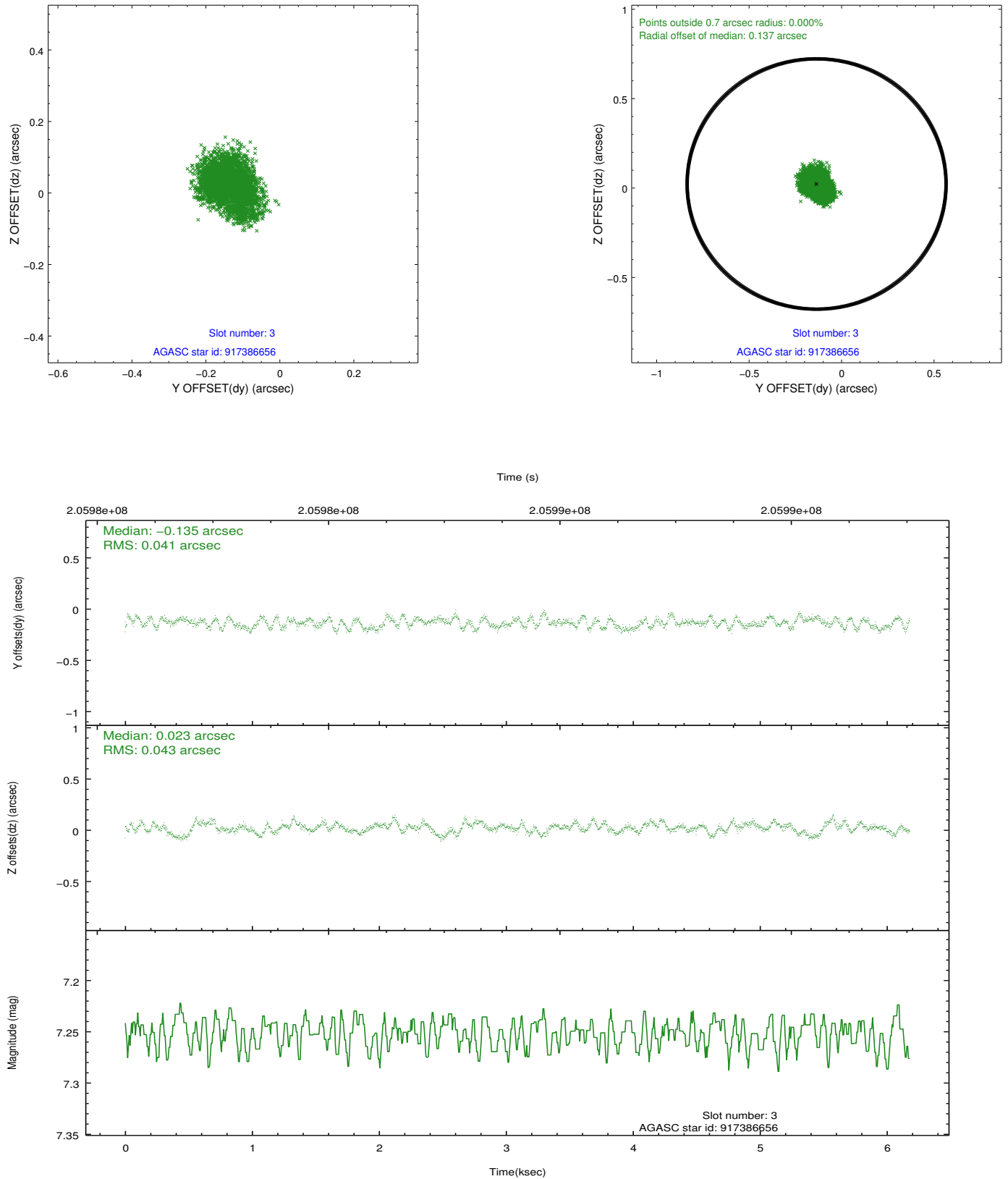


### Slot Statistics

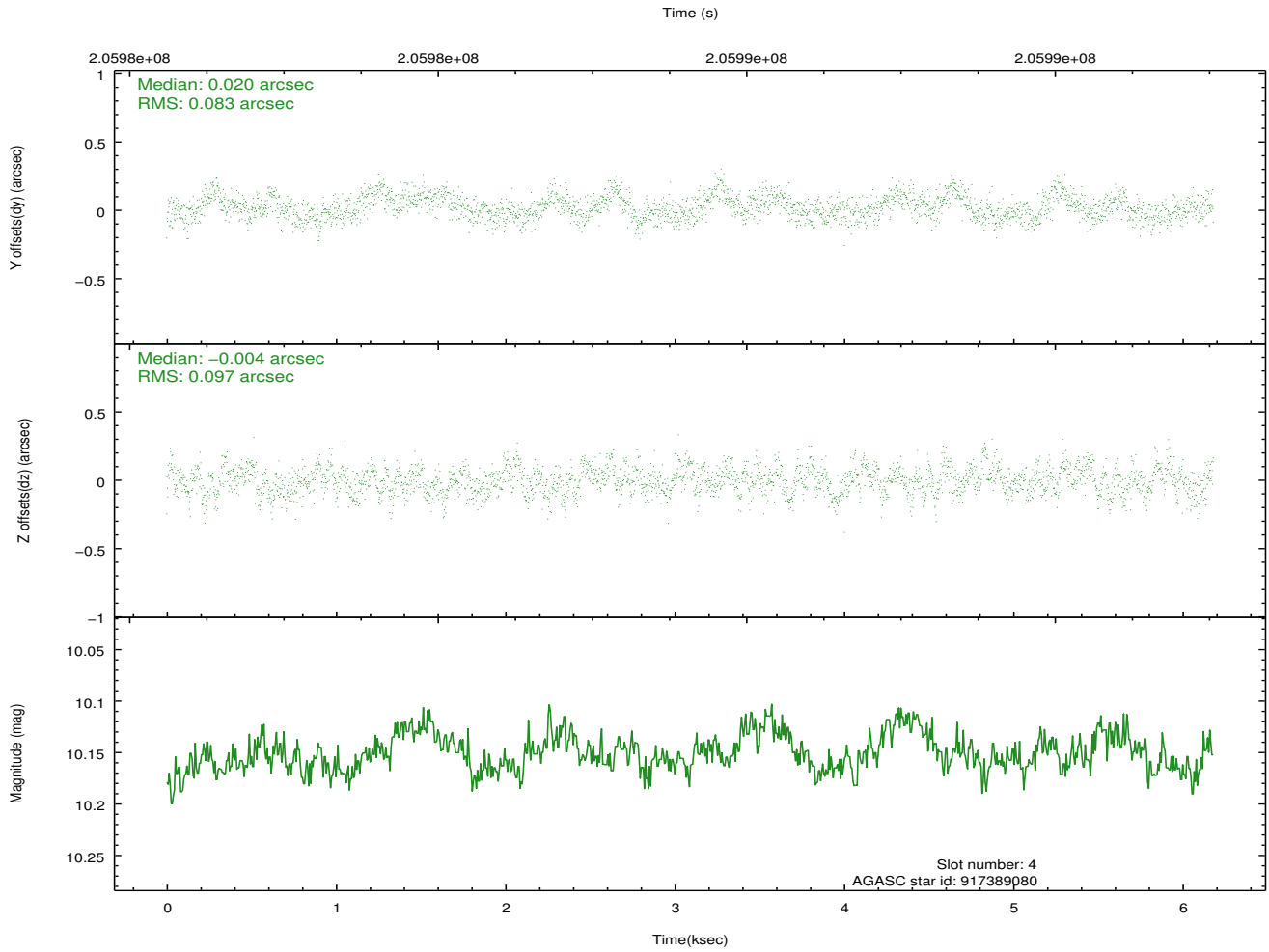
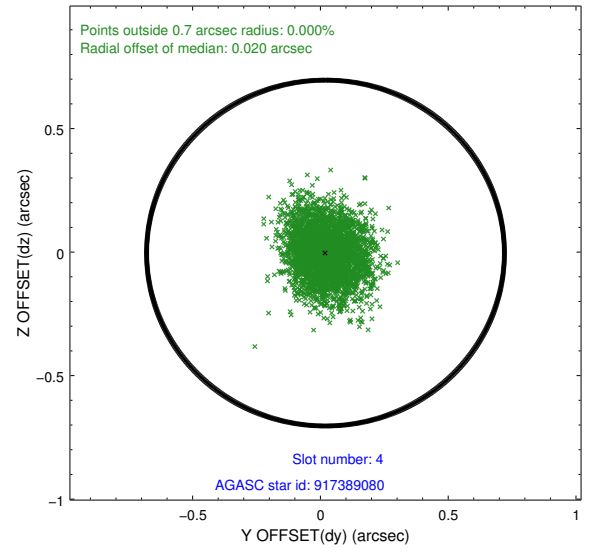
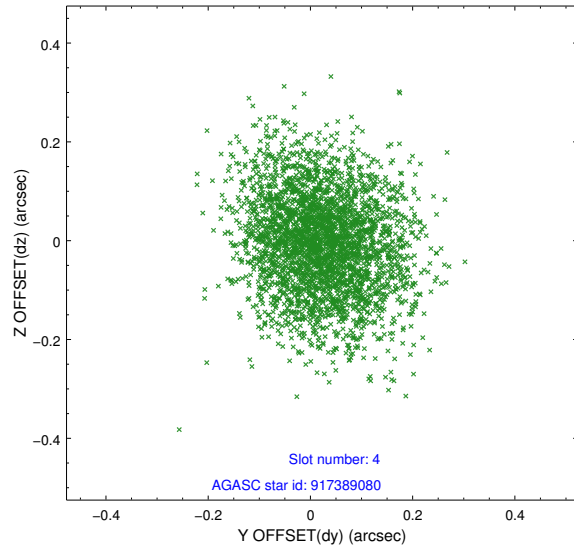
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	1508	0.012	-0.031	0.007	0.012	0.000000	0.000000	937.35	-1727.17
1	FID	ACIS-S-5	7.23	1508	-0.066	0.000	0.007	0.011	0.000000	0.000000	-1811.17	169.46
2	FID	ACIS-S-6	7.35	1508	0.033	0.043	0.008	0.014	0.000000	0.000000	401.92	814.52
3	GUIDE	917386656	7.25	3016	-0.135	0.023	0.065	0.102	15.342124	-33.359890	1020.55	-1152.78
4	GUIDE	917389080	10.15	3012	0.020	-0.004	0.137	0.221	15.722484	-33.662555	-334.71	-1961.08
5	GUIDE	917389288	9.56	3010	-0.103	0.138	0.109	0.178	15.394706	-33.185862	1582.03	-1472.70
6	GUIDE	917639416	10.01	3015	0.017	0.088	0.129	0.203	15.947780	-34.008495	-1715.91	-2272.37
7	GUIDE	917651048	9.64	3013	0.209	-0.242	0.122	0.196	14.655628	-34.424089	-2136.49	1833.13

## 2.4 Star Slots

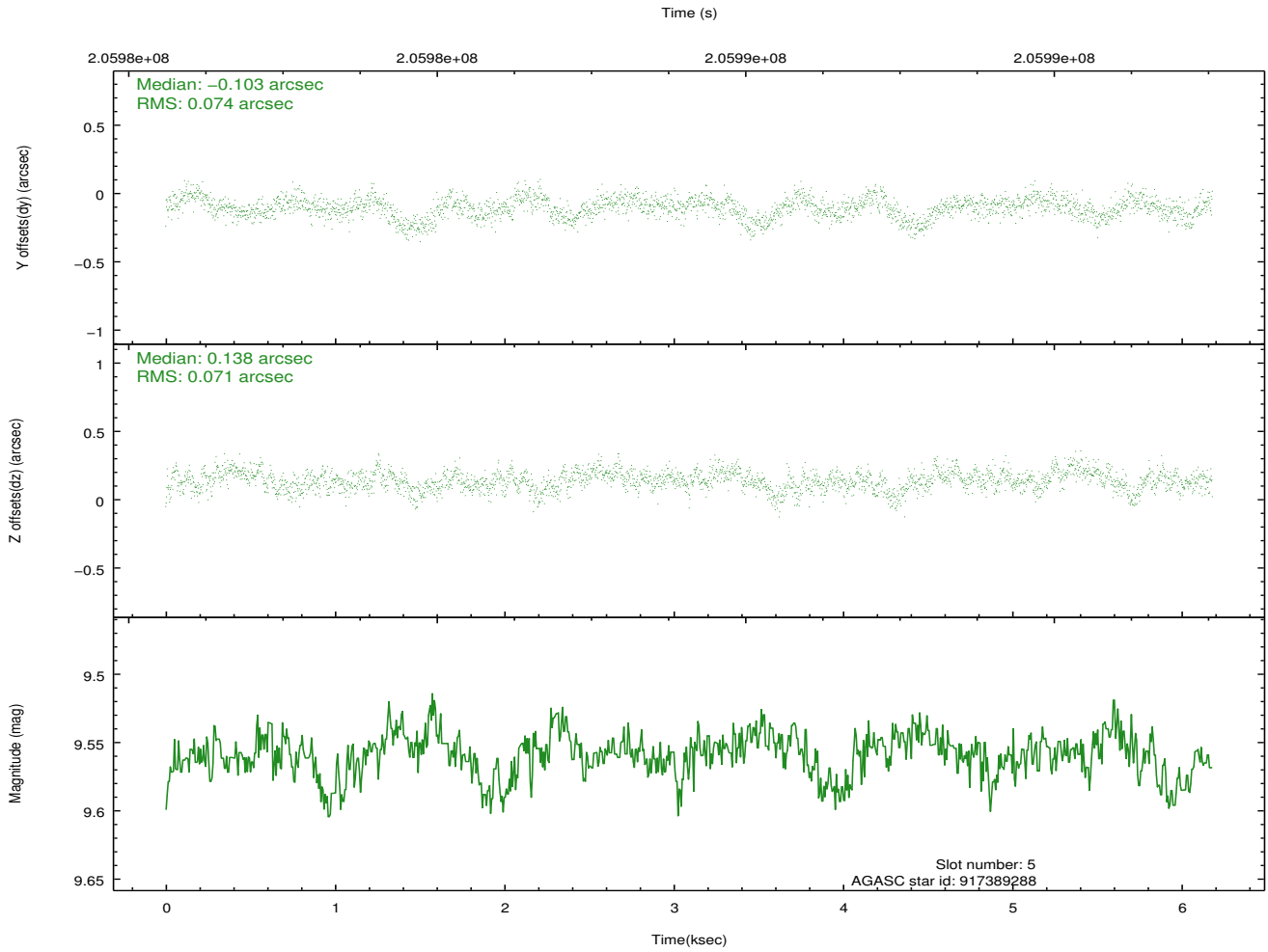
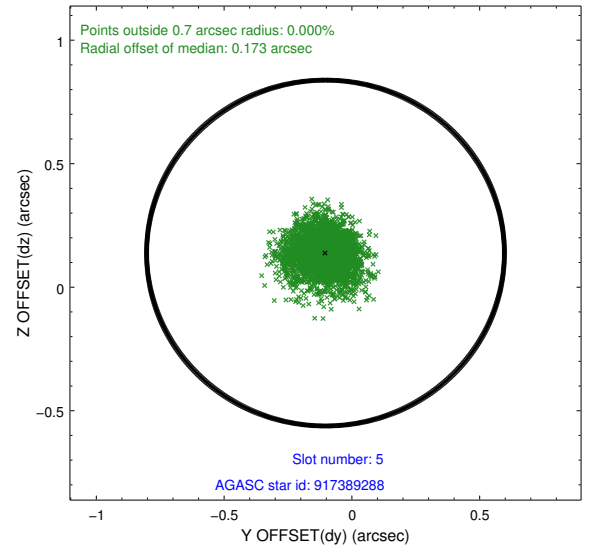
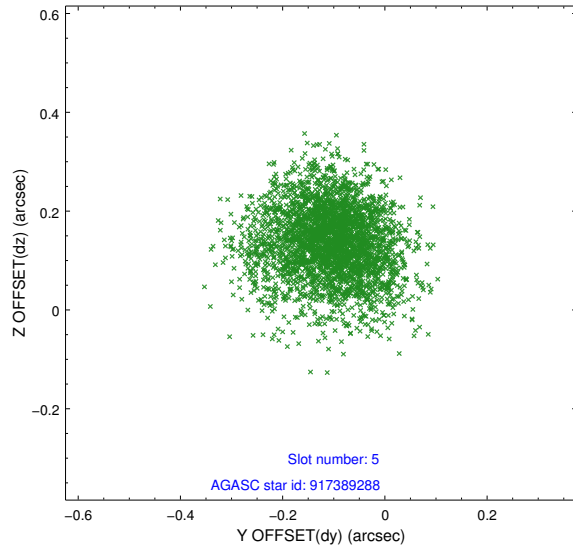
### 2.4.1 Slot 3



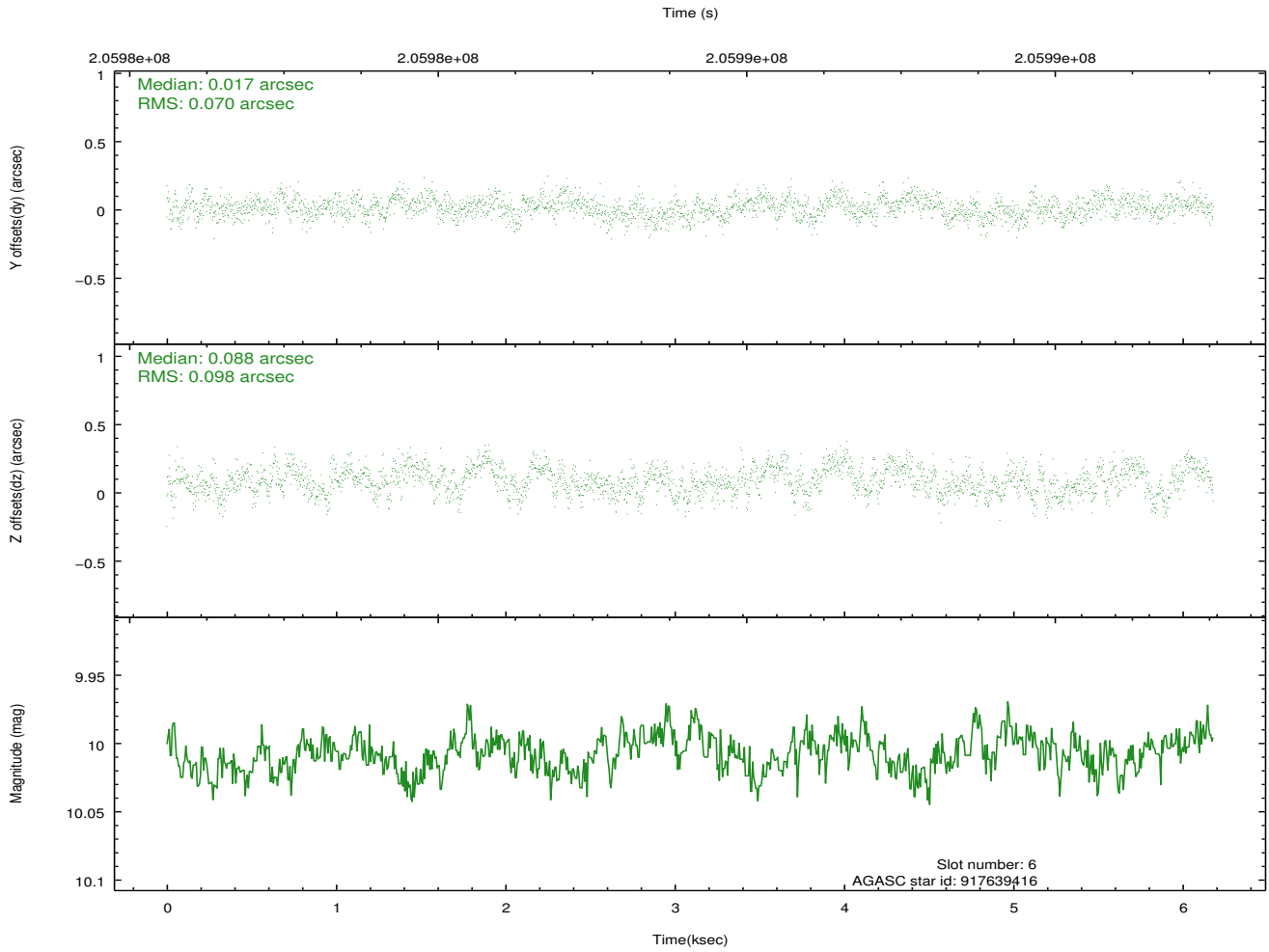
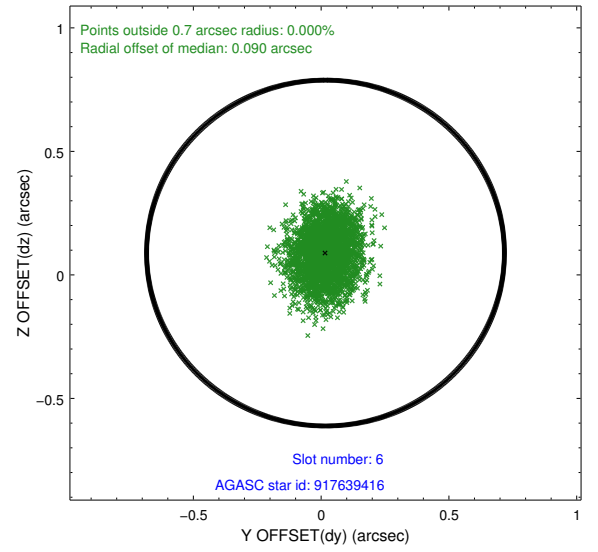
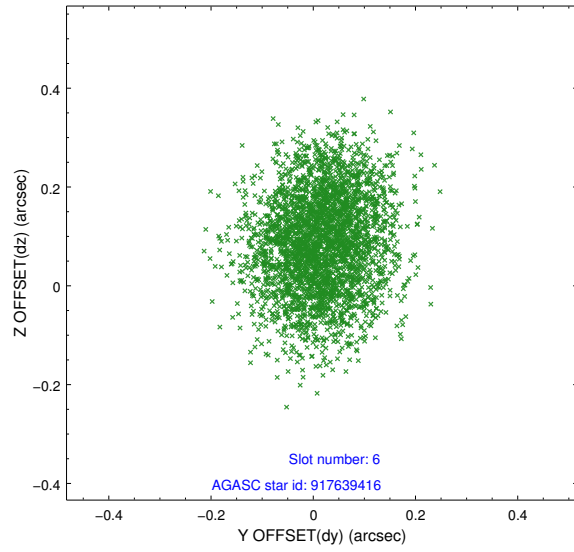
## 2.4.2 Slot 4



### 2.4.3 Slot 5

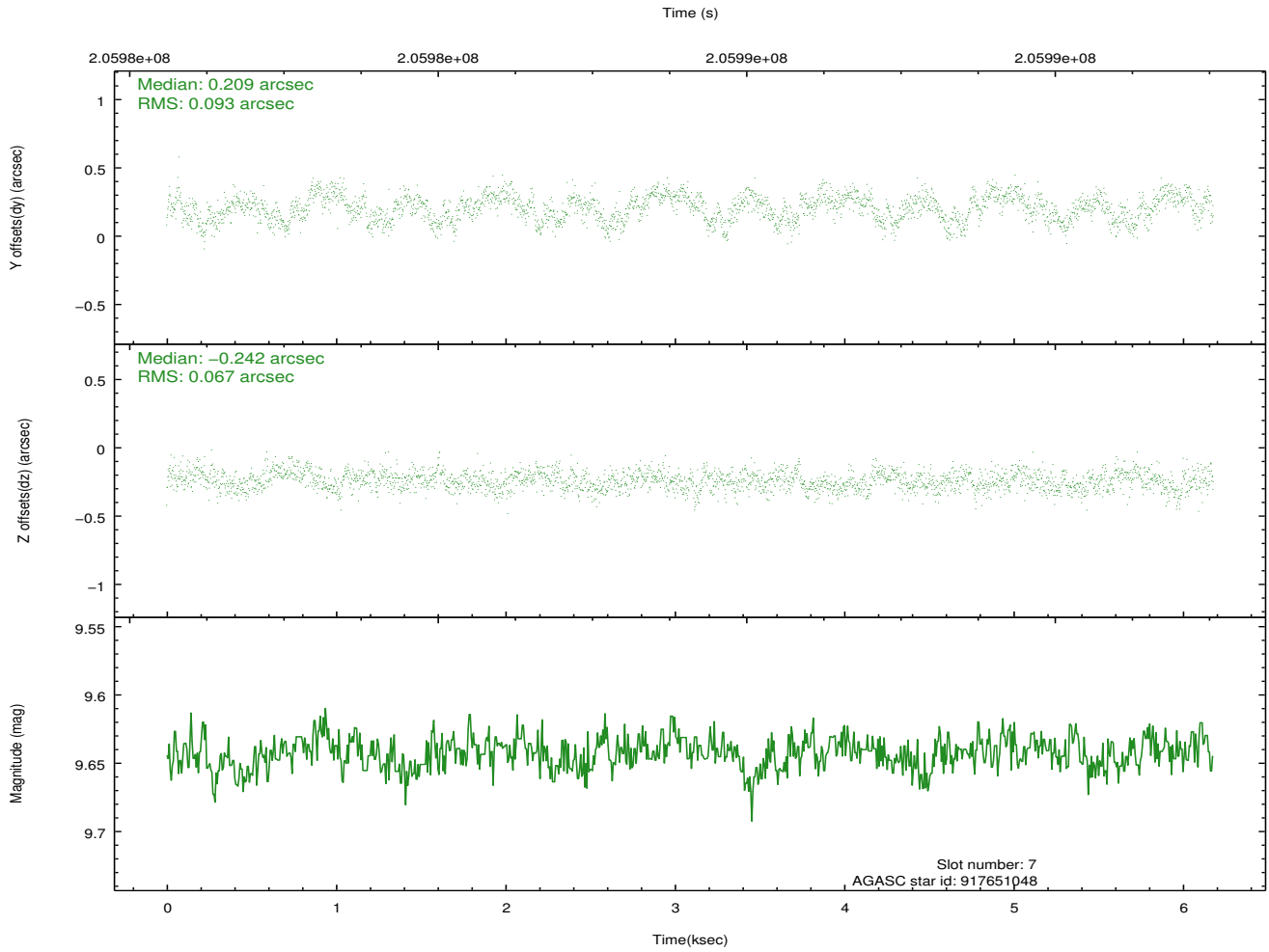
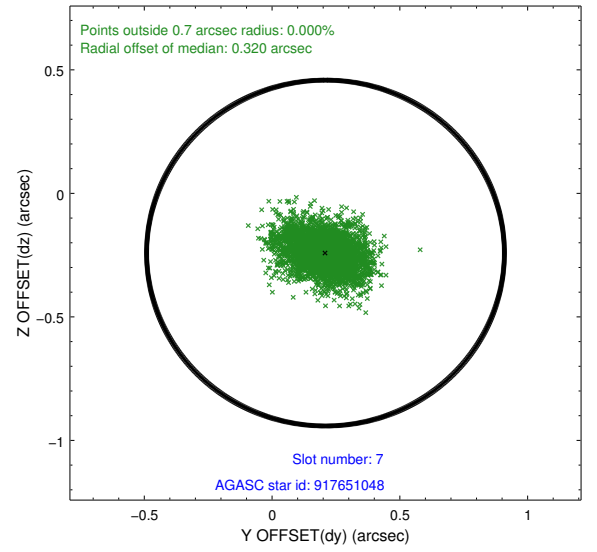
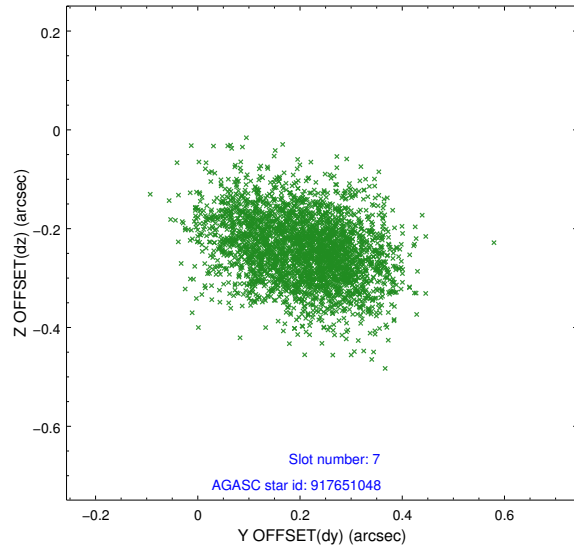


## 2.4.4 Slot 6



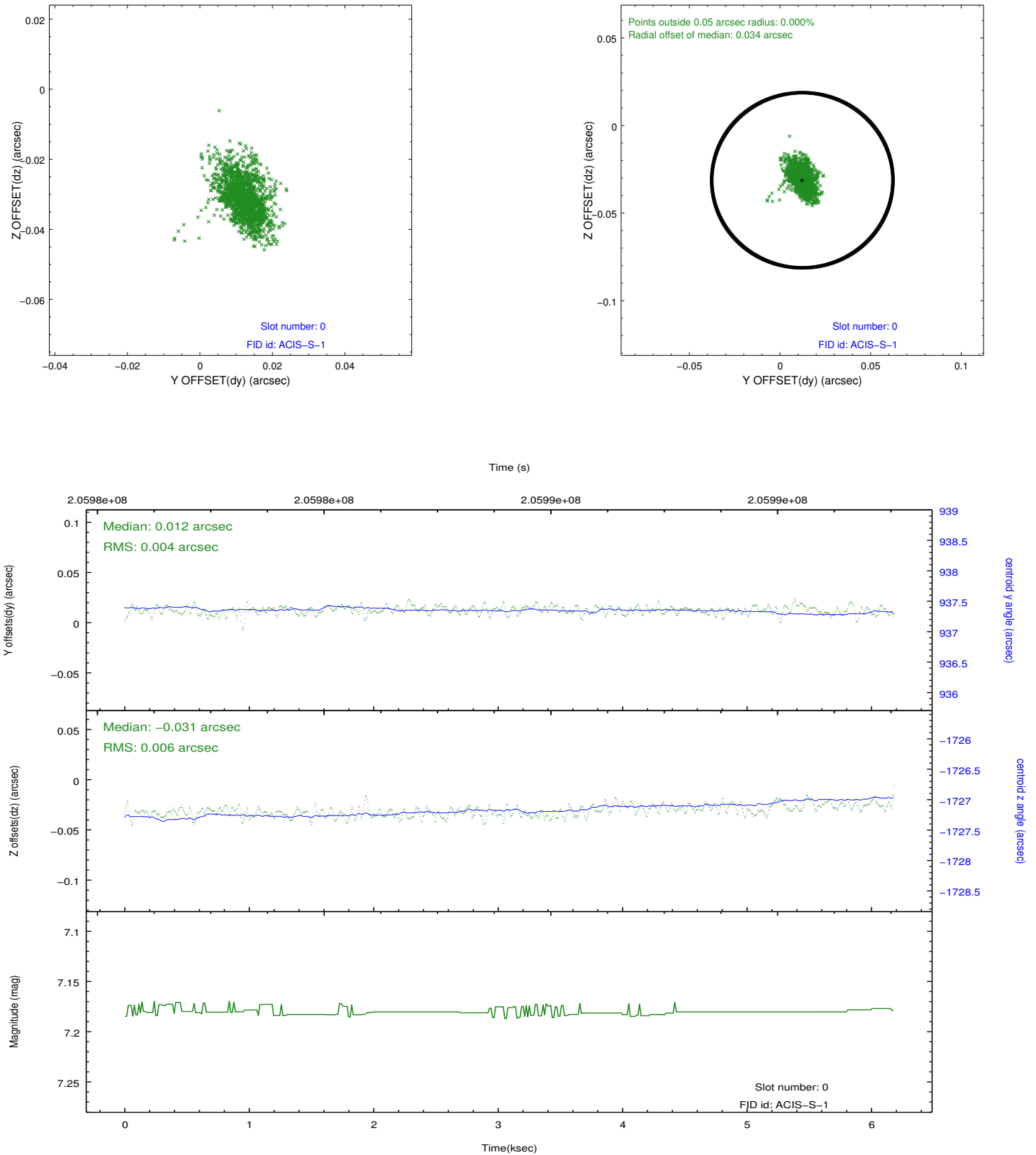


## 2.4.5 Slot 7

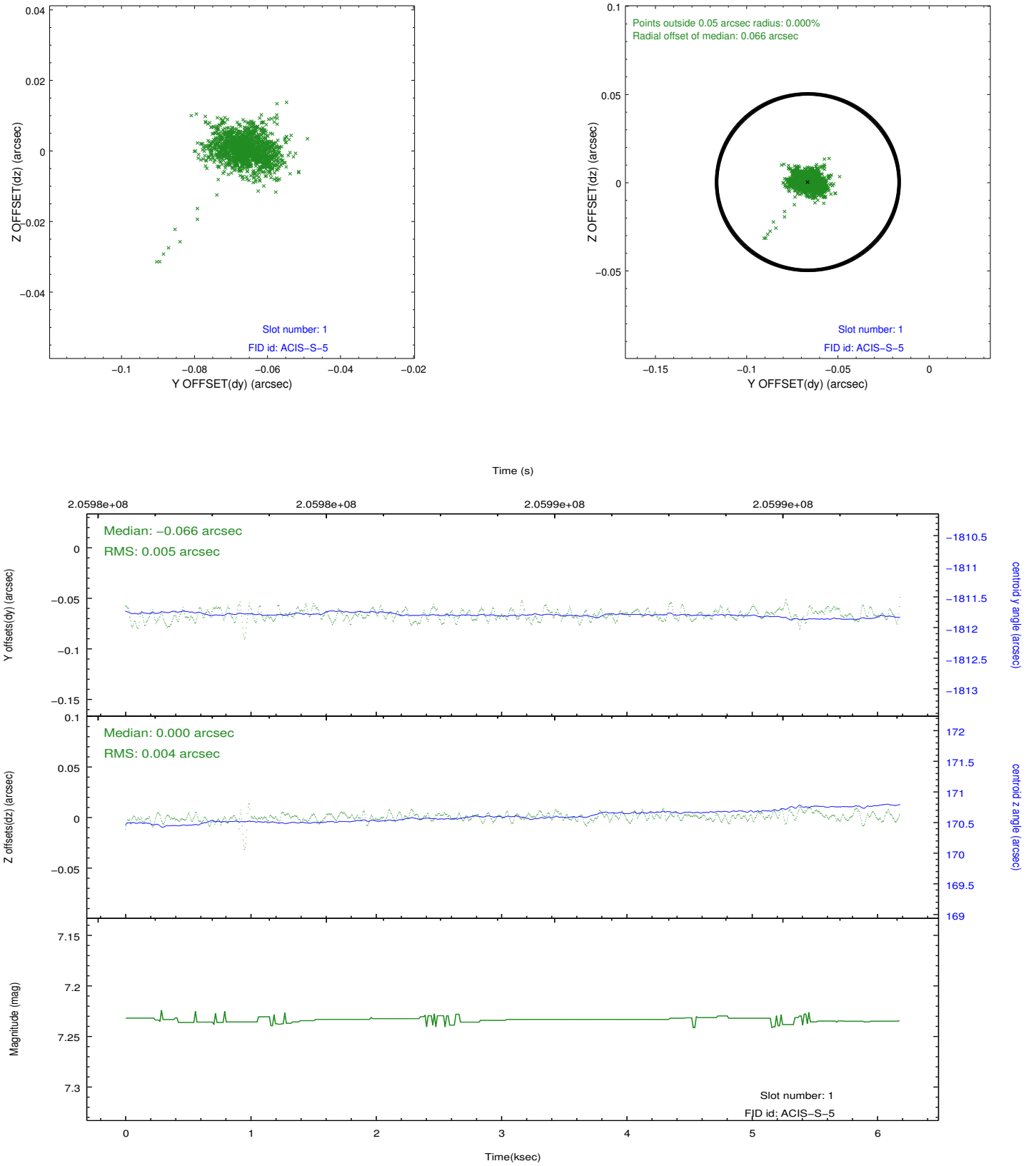


## 2.5 FID Slots

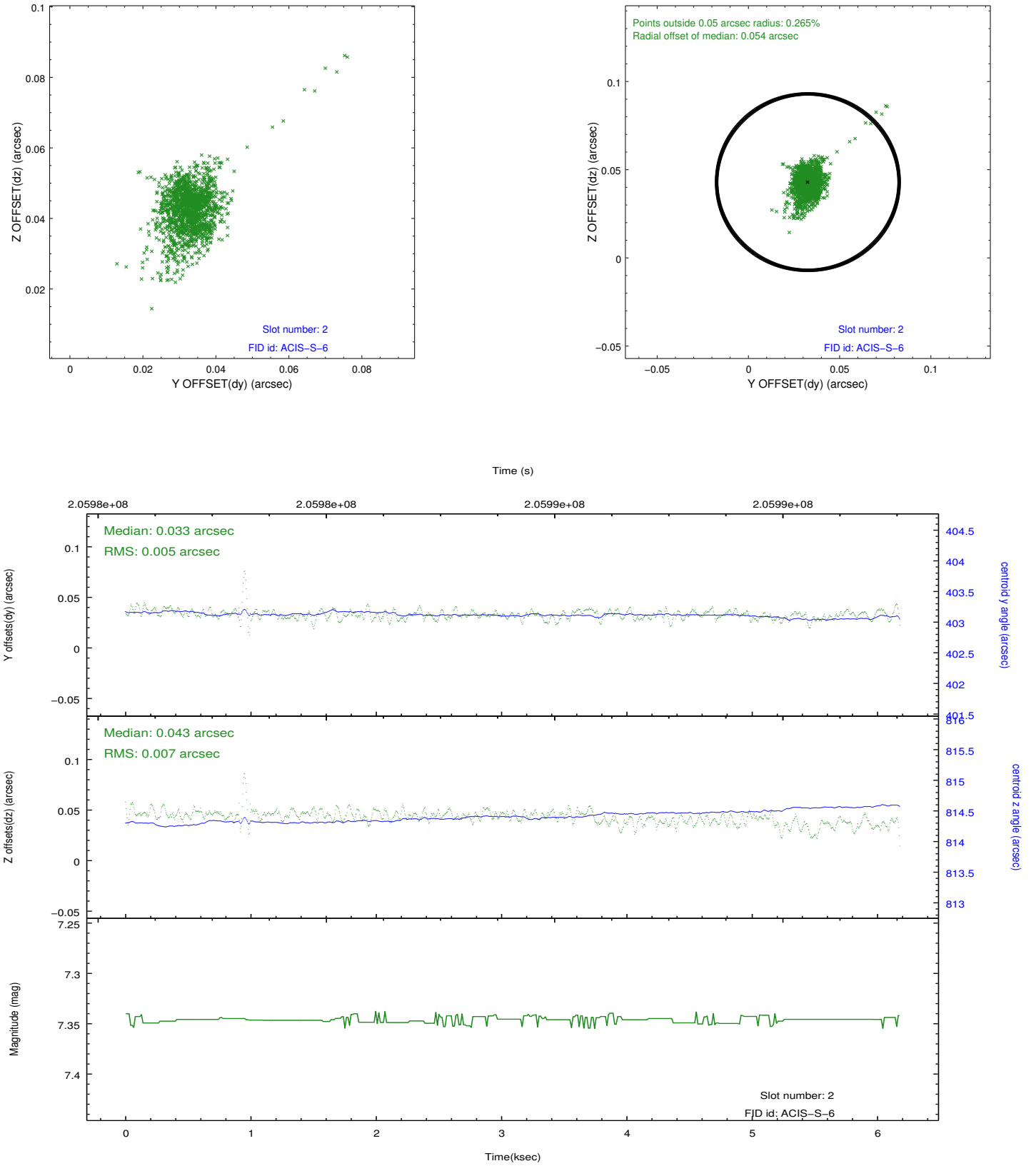
### 2.5.1 Slot 0



## 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)	2012.12.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.99

### A.2 Comments

Monitor constraint met. Joint Proposal: NOAO