

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14035 - L2 Version 1
Chandra X-Ray Center

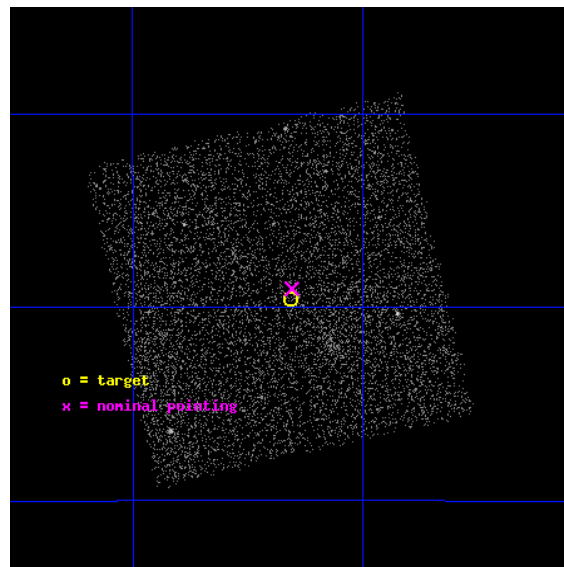
L2 Processing Date : Sep 1 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

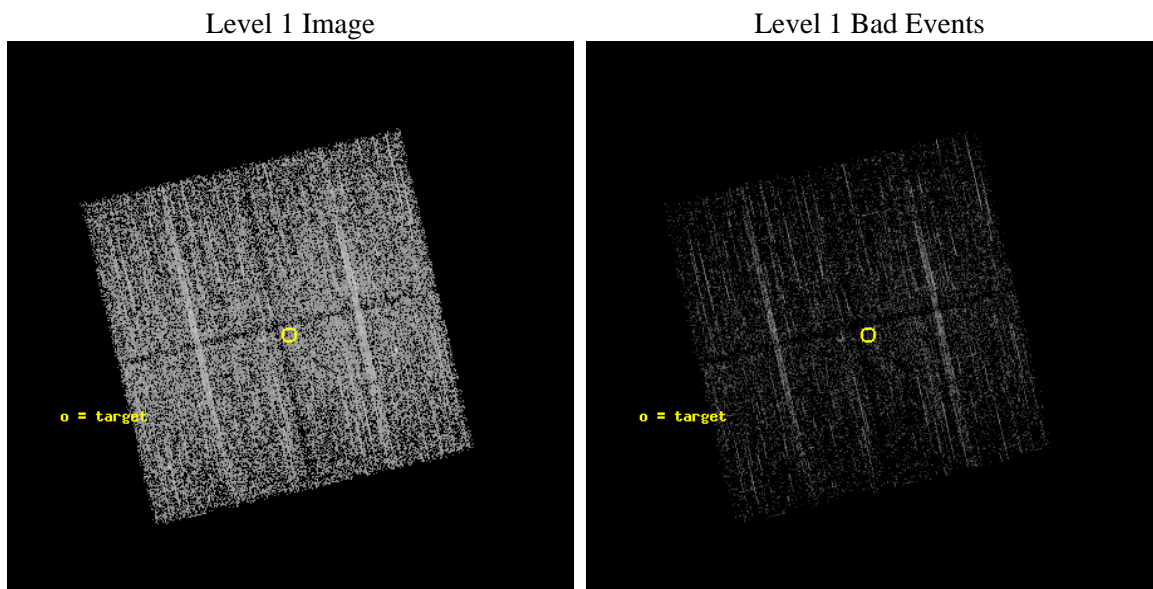
seq_num	901001	Sequence number
obs_id	14035	Observation id
title	BAT, Chandra, NuSTAR and The origin of the Cosmic X-ray Background	
observer	Dr. Marco Ajello	Principal investigator
object	J0232.3-3639	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	38.077917	Observer's specified target RA [deg]
dec_targ	-36.659	Observer's specified target Dec [deg]
ra_nom	38.077225785258	Nominal RA [deg]
dec_nom	-36.650930480458	Nominal Dec [deg]
roll_nom	76.868067103229	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5088.9649177194	Sum of GTIs [s]
livetime	5022.4738446279	Livetime [s]
ontime0	5088.8417977095	Sum of GTIs [s]
ontime1	5088.8828377128	Sum of GTIs [s]
ontime2	5088.9238777161	Sum of GTIs [s]
ontime3	5088.9649177194	Sum of GTIs [s]
l2events	11421	Number of level 2 events



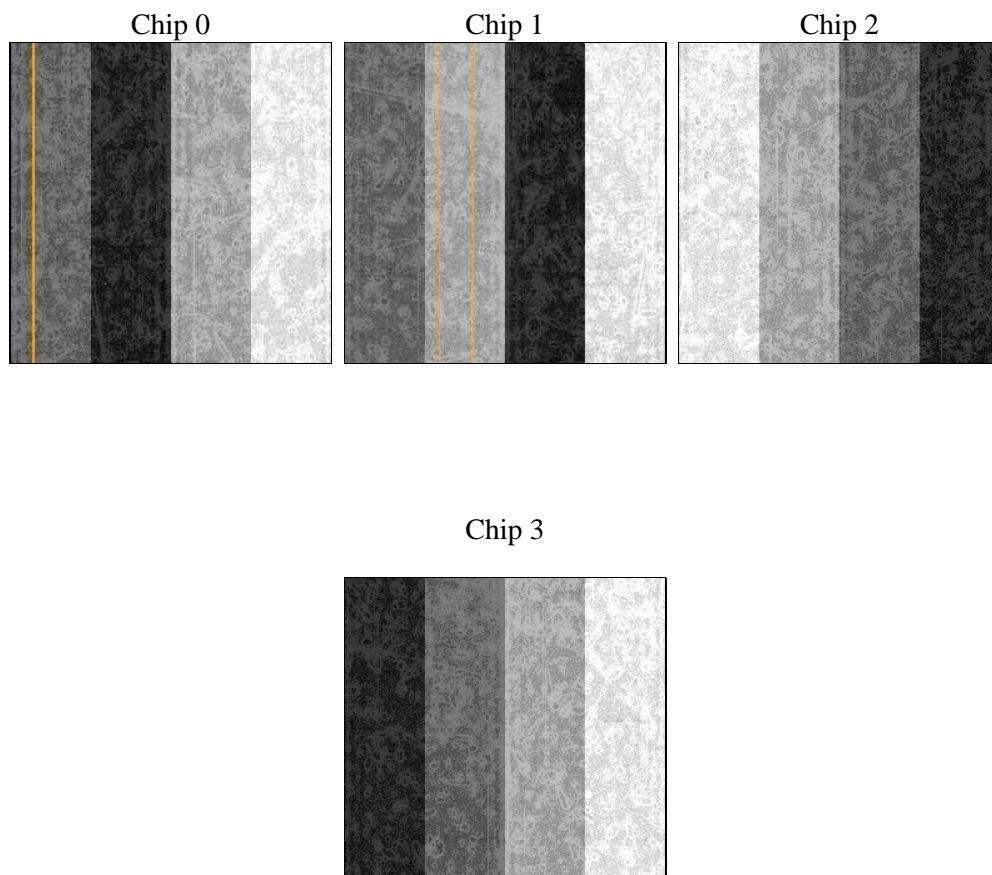
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5088.9649177194	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime0	5088.8417977095	Sum of GTIs [s]
date	2012-09-01T07:38:50	Date and time of file creation	ontime1	5088.8828377128	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5088.9238777161	Sum of GTIs [s]
			ontime3	5088.9649177194	Sum of GTIs [s]
			l1events	103288	Number of level 1 events

2.1.4 Events

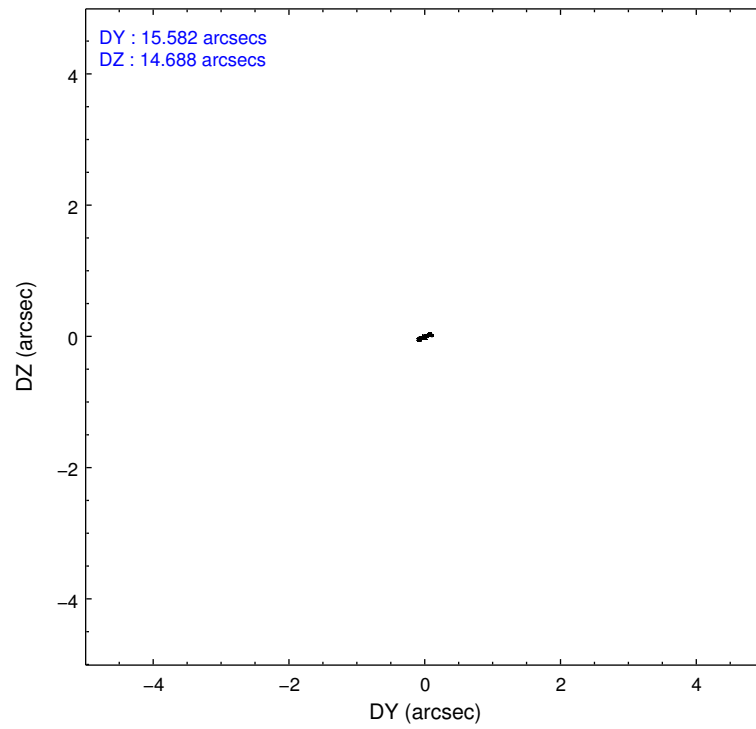
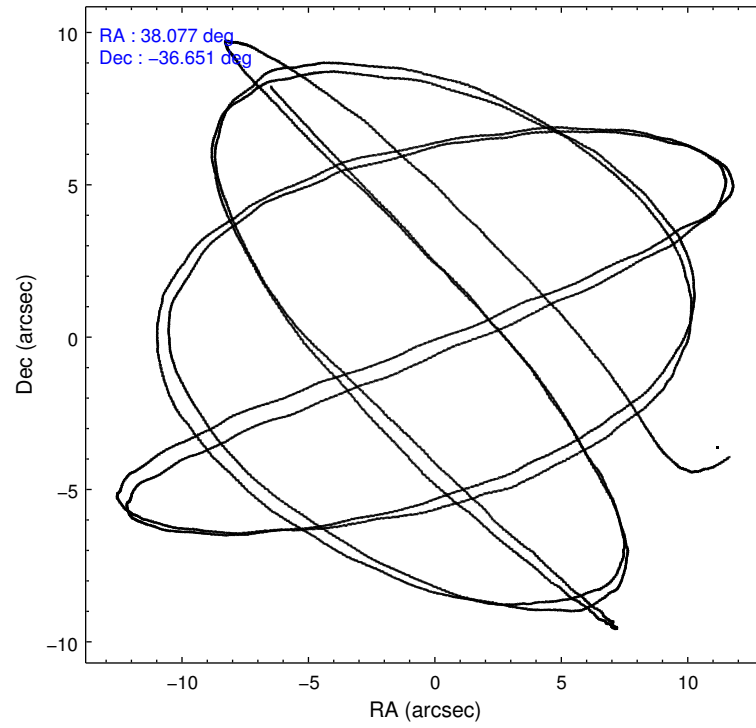
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	25600	24984	26285	26419
rejected events	22330	21391	23178	22954
rejected %	87%	85%	88%	86%

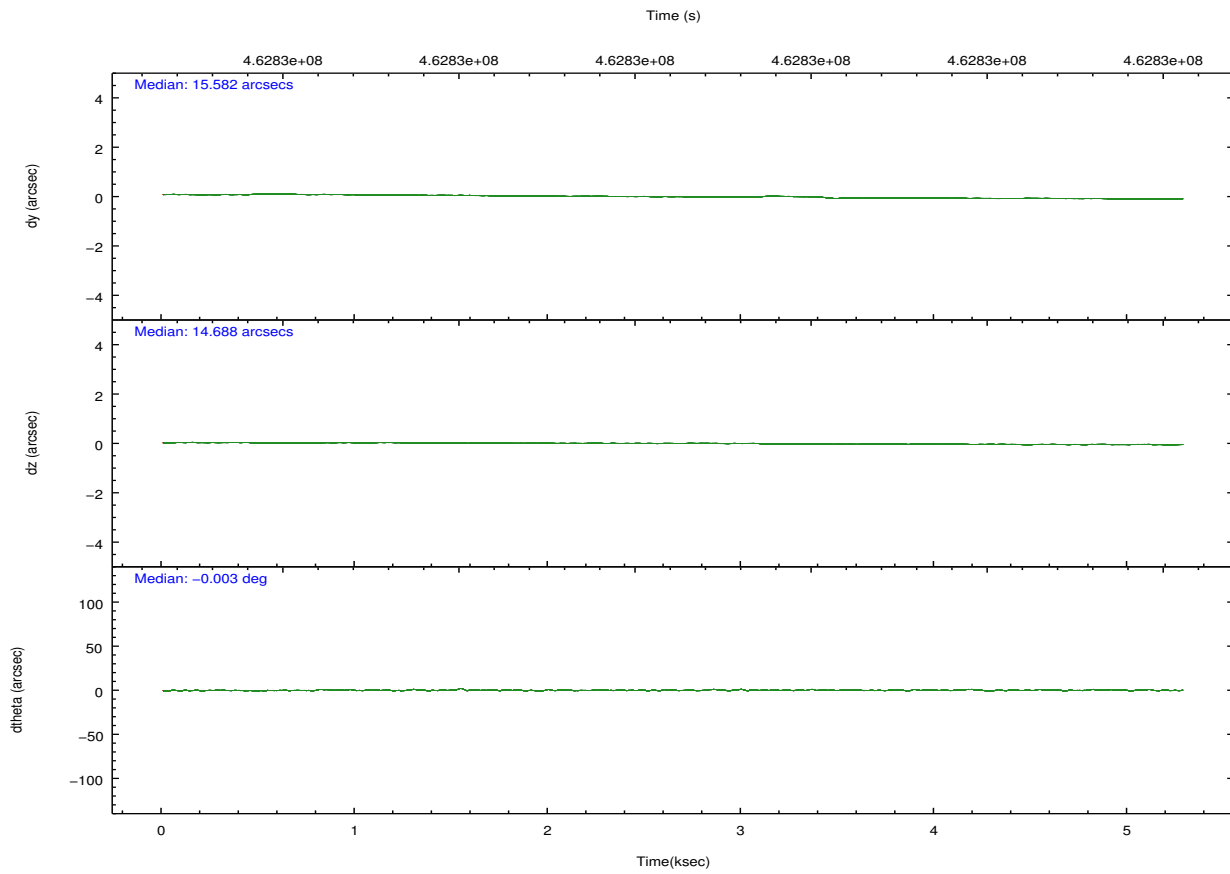
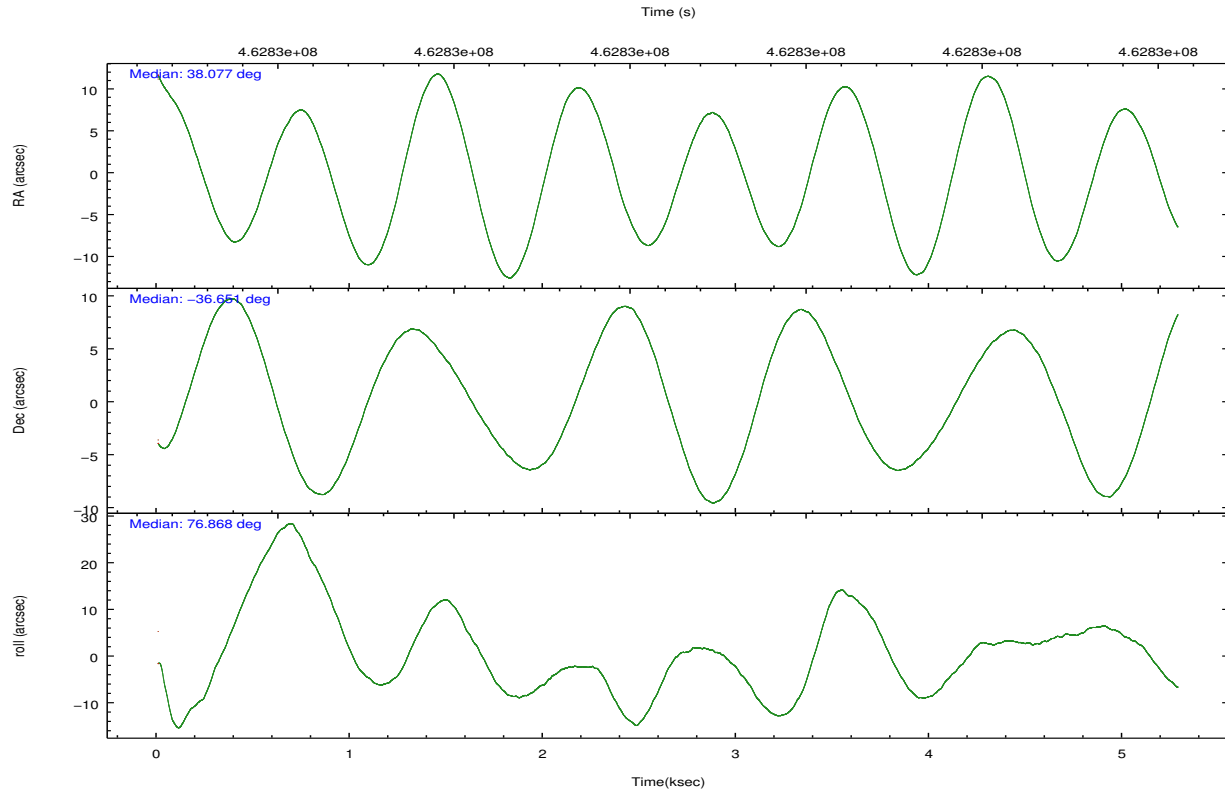
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1127	1277	1112	1345
	4%	5%	4%	5%
grade 1 events	14	15	16	21
	0%	0%	0%	0%
grade 2 events	771	861	748	715
	3%	3%	2%	2%
grade 3 events	361	357	324	370
	1%	1%	1%	1%
grade 4 events	317	344	324	378
	1%	1%	1%	1%
grade 5 events	1284	1375	1178	1410
	5%	5%	4%	5%
grade 6 events	699	758	604	665
	2%	3%	2%	2%
grade 7 events	21027	19997	21979	21515
	82%	80%	83%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	38.087267	38.07722578525811	Subarray requested	NONE	NONE
[deg] Pointing Dec	-36.677222	-36.6509304804576	Alternating exposures requested	N	N
[deg] Pointing Roll	76.665341	76.86806710322901	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	462828868.184000	462827941.56157			
Observation start date	2012-08-31T19:33:21	2012-08-31T19:19:01			
[s] Observation end time (MET)	462833868.184000	462835375.887			
Observation end date	2012-08-31T20:56:41	2012-08-31T21:22:55			
Read mode	TIMED	TIMED			

2.3 Aspect



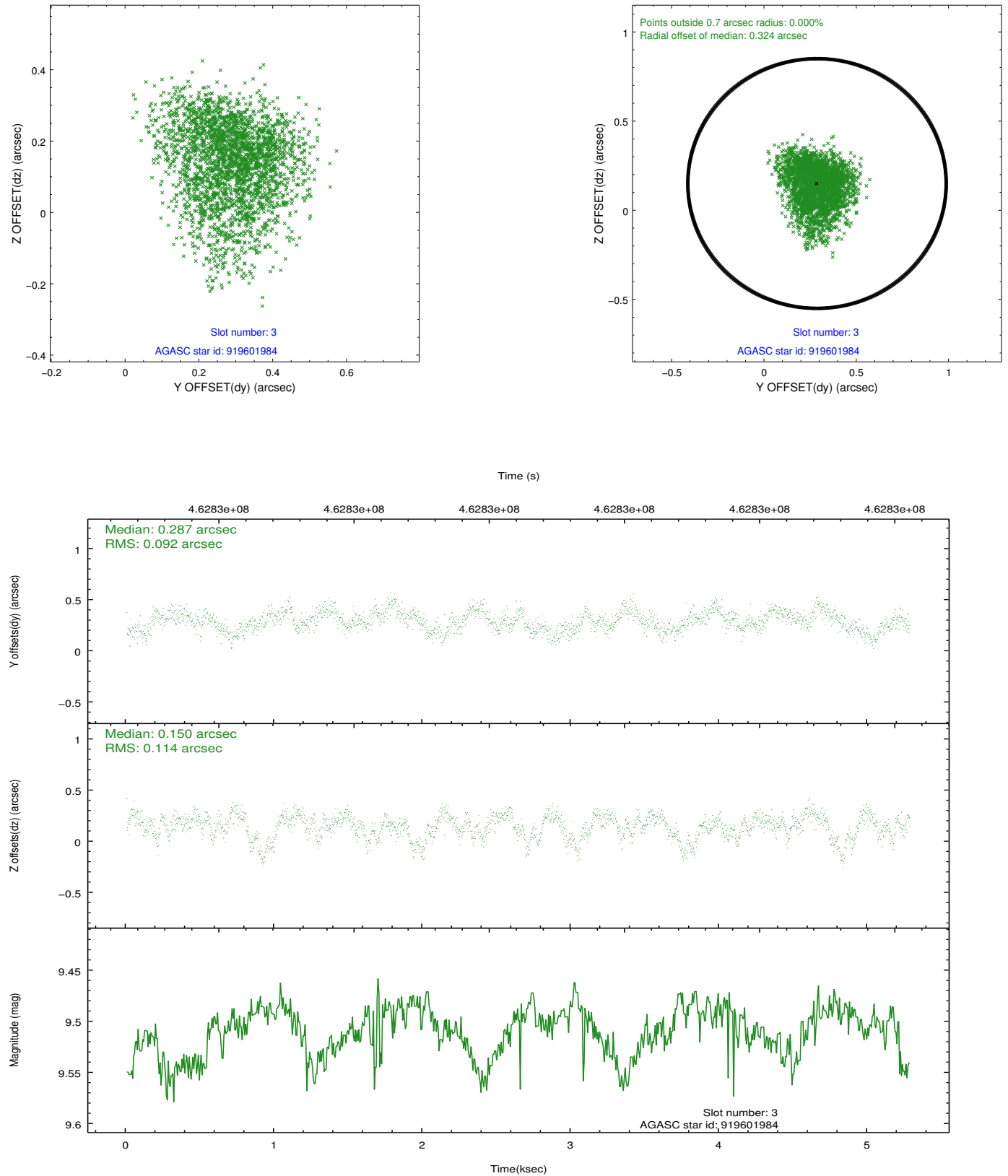


Slot Statistics

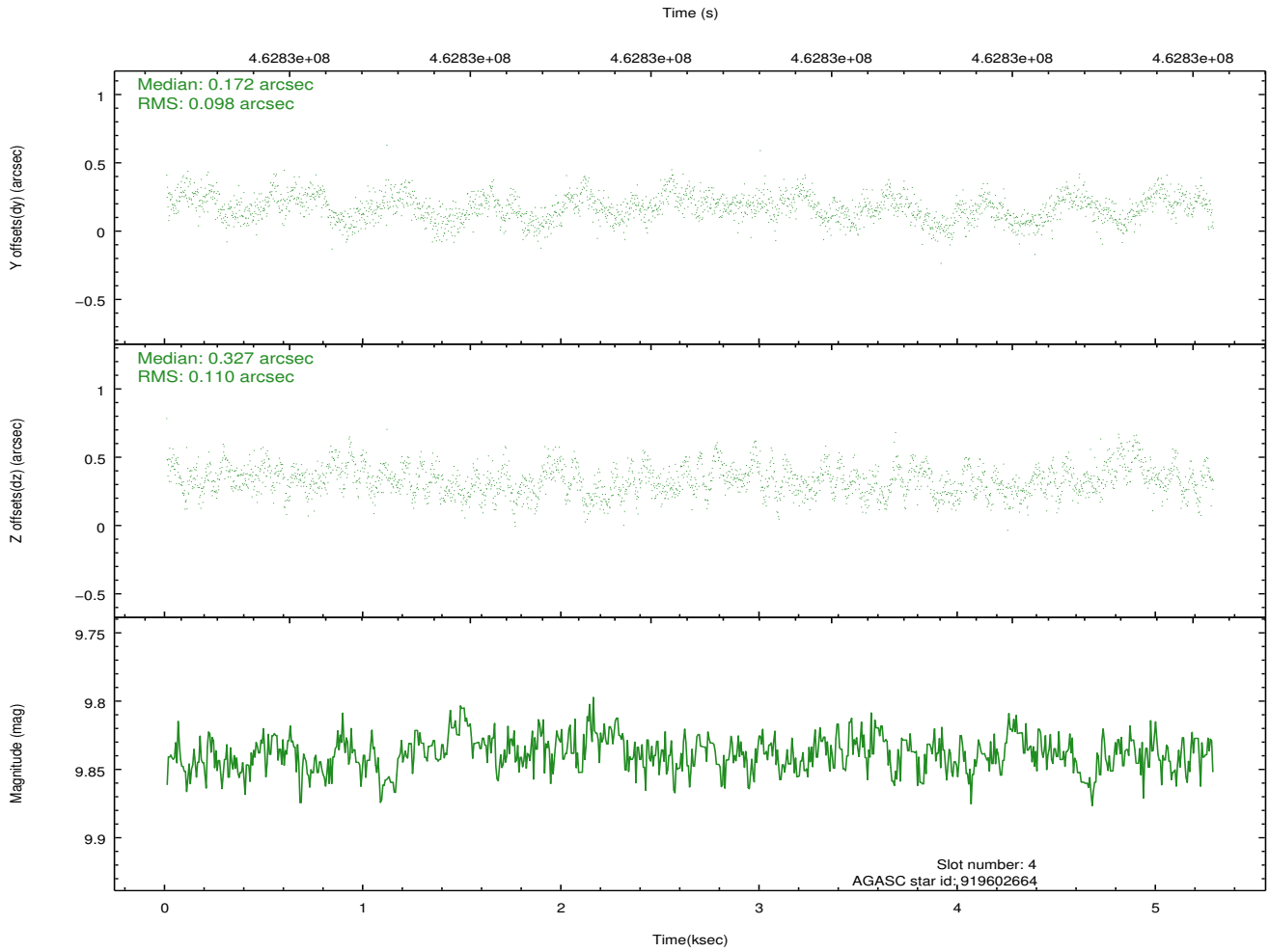
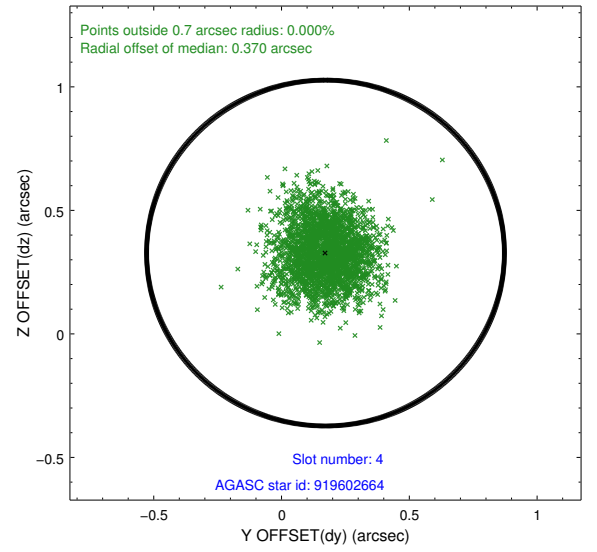
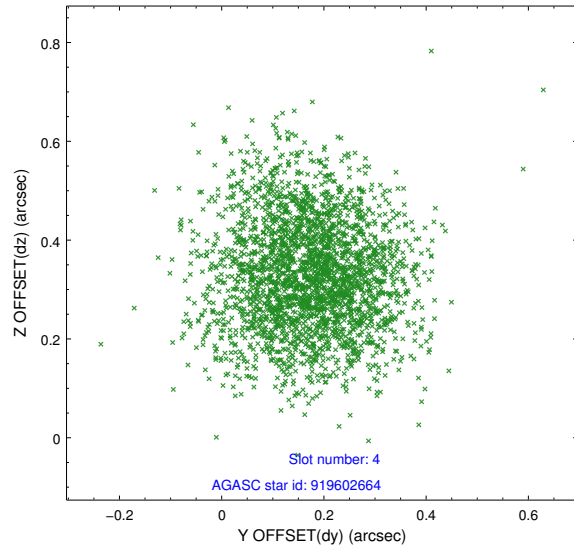
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.17	1289	0.050	-0.015	0.007	0.015	0.000000	0.000000	923.93	-838.27
1	FID	ACIS-I-5	7.17	1289	-0.256	0.042	0.006	0.013	0.000000	0.000000	-1823.89	1058.66
2	FID	ACIS-I-6	7.16	1289	0.114	0.043	0.007	0.012	0.000000	0.000000	388.25	1704.49
3	GUIDE	919601984	9.51	2577	0.287	0.150	0.156	0.256	38.035271	-37.161523	-1731.26	-256.77
4	GUIDE	919602664	9.84	2574	0.172	0.327	0.157	0.250	38.640674	-37.406384	-2193.97	-2145.93
5	GUIDE	919603672	9.87	2576	-0.124	0.227	0.170	0.283	38.848637	-36.312239	1779.27	-1847.98
6	GUIDE	919606712	9.73	2521	-0.085	-0.392	0.158	0.262	37.259156	-36.782297	-927.56	2232.37
7	GUIDE	919606952	6.16	2576	-0.265	-0.314	0.096	0.163	38.061495	-36.427306	858.10	280.48

2.4 Star Slots

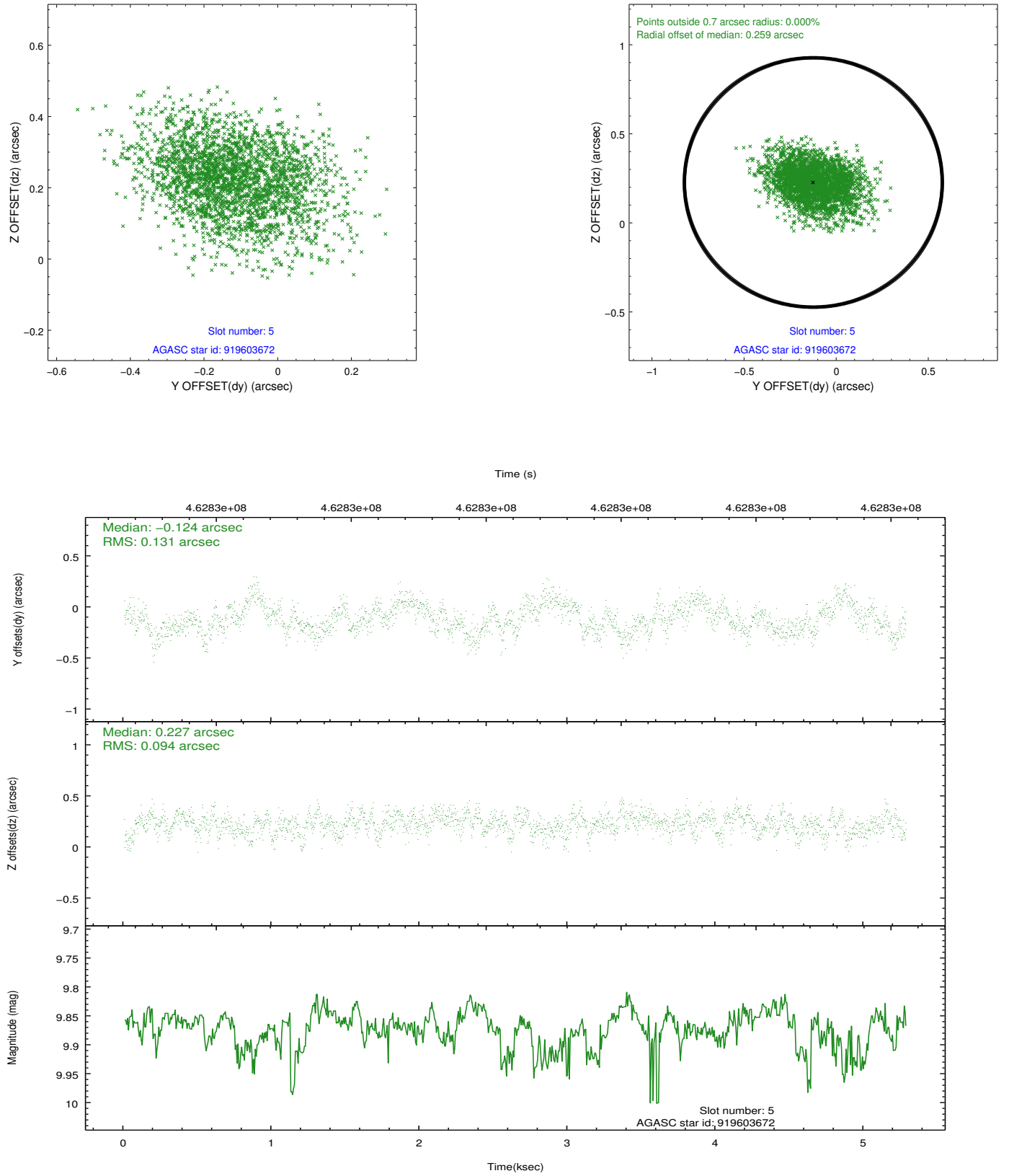
2.4.1 Slot 3



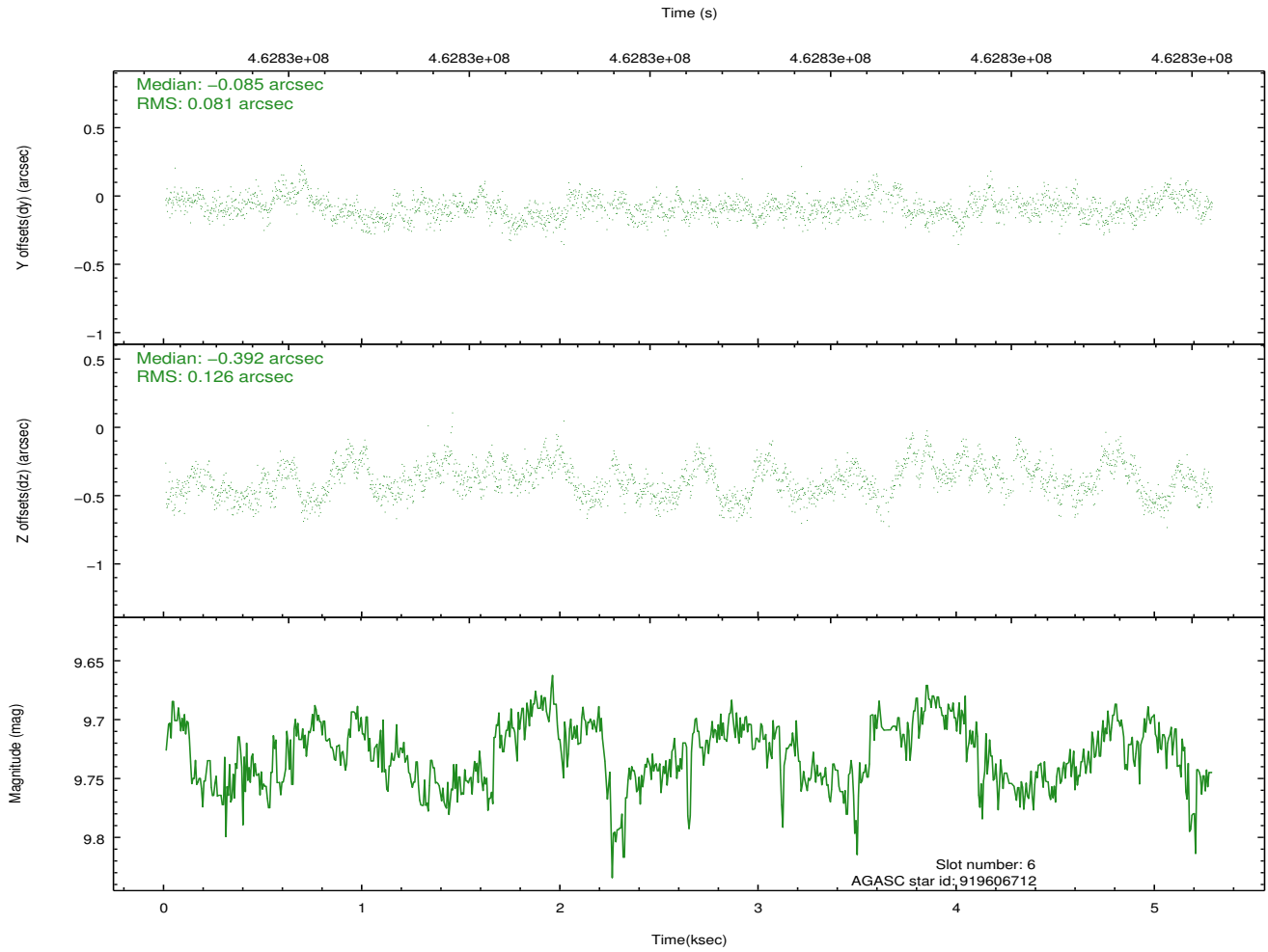
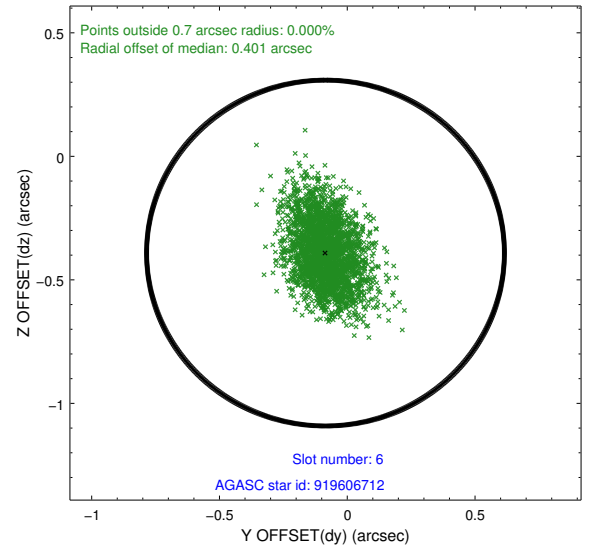
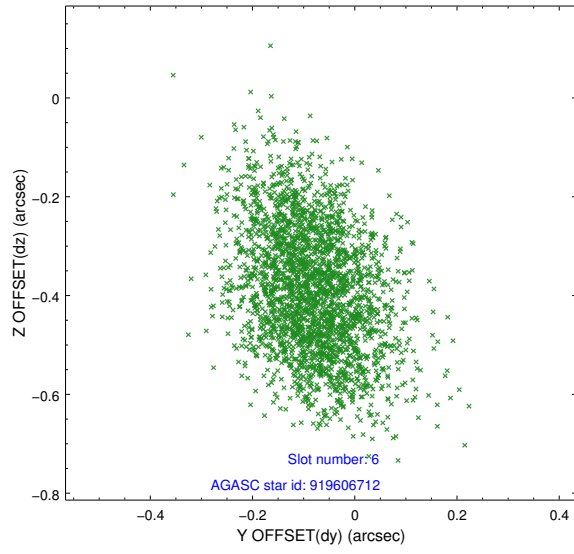
2.4.2 Slot 4



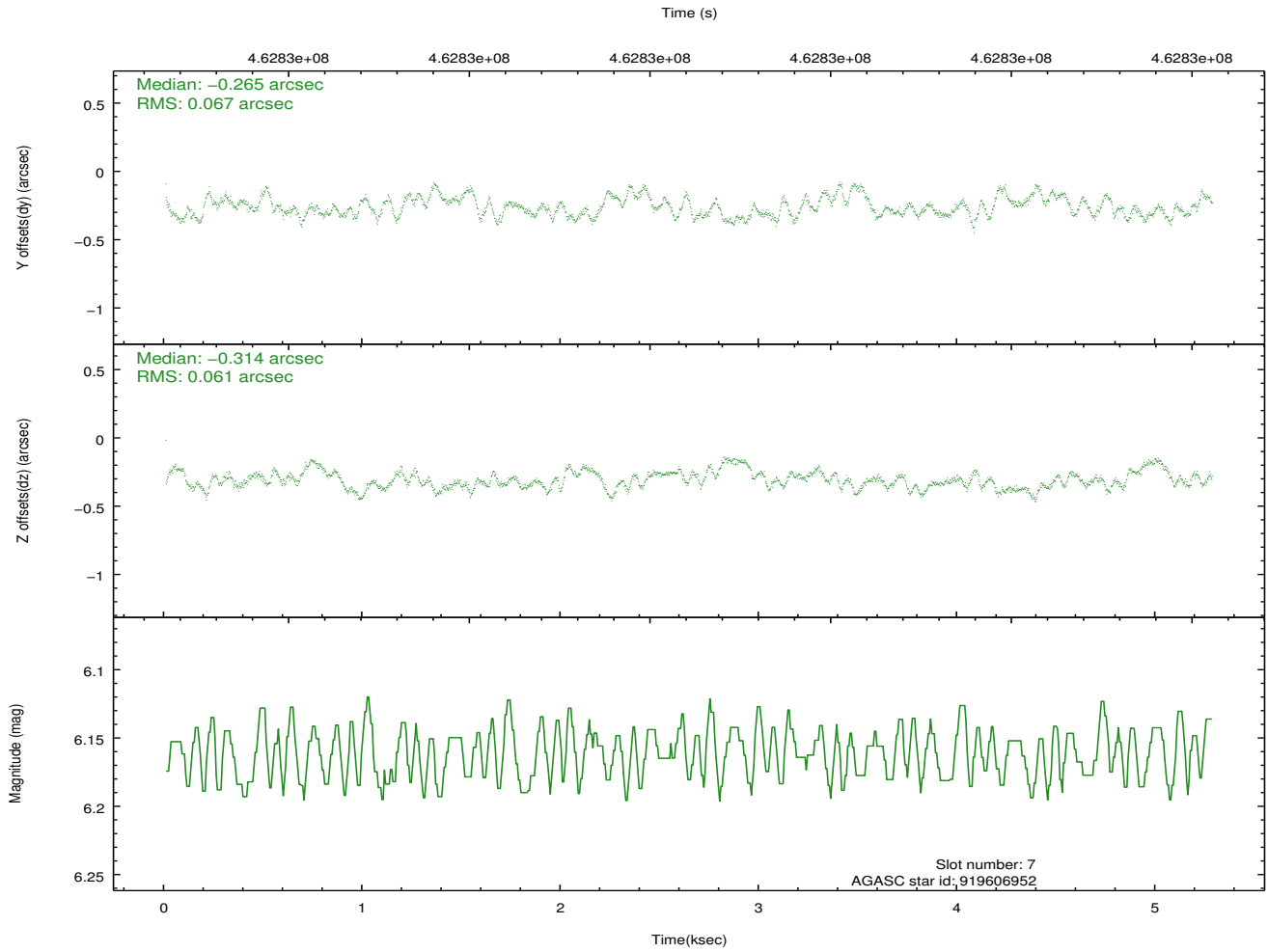
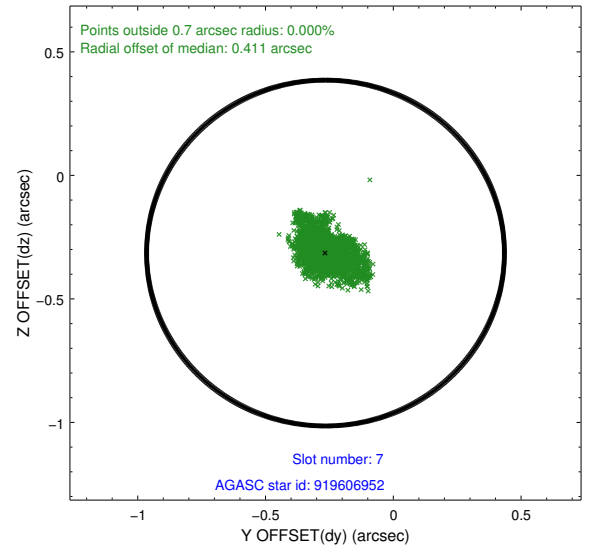
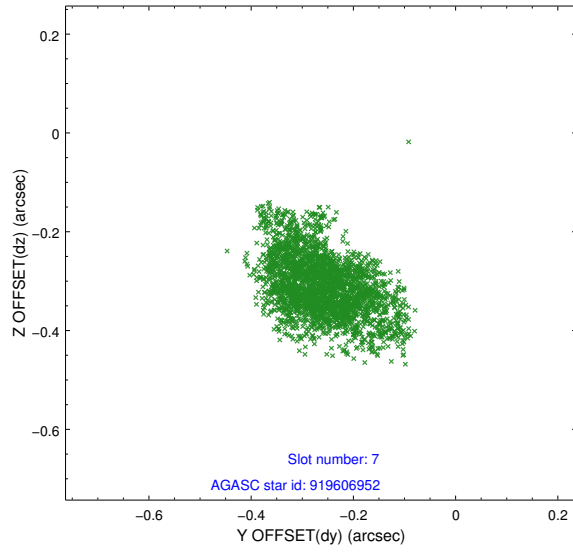
2.4.3 Slot 5



2.4.4 Slot 6

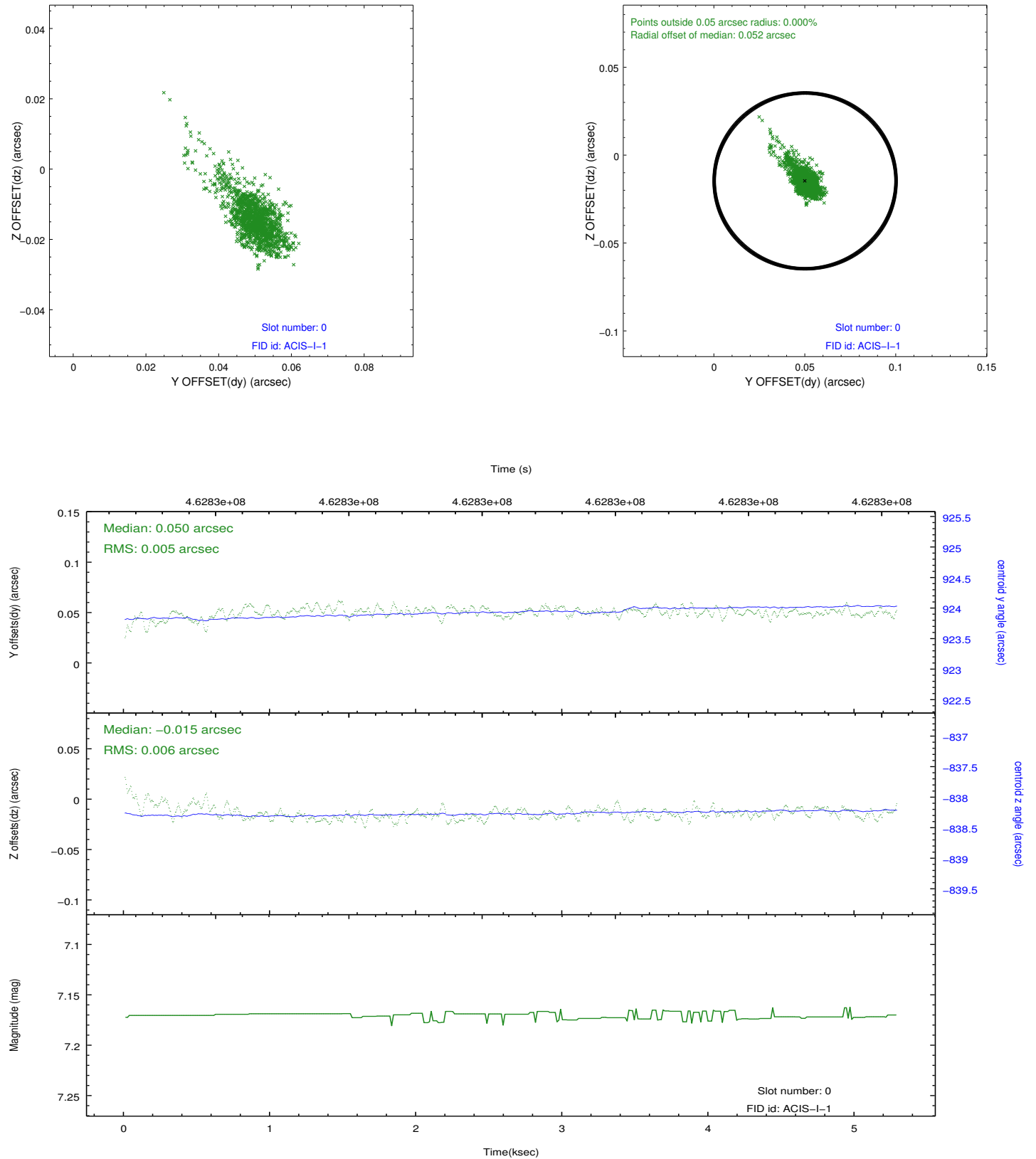


2.4.5 Slot 7

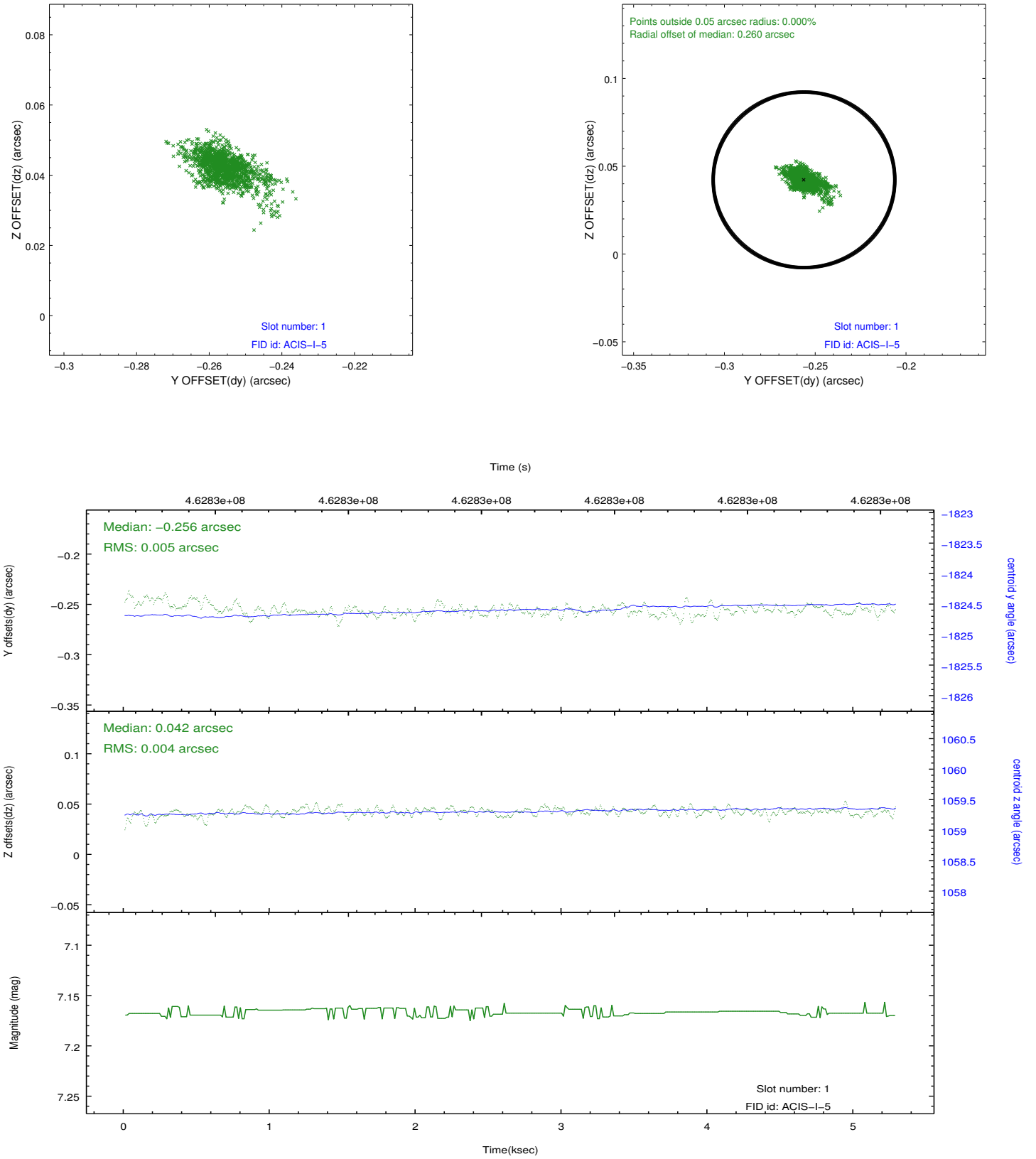


2.5 FID Slots

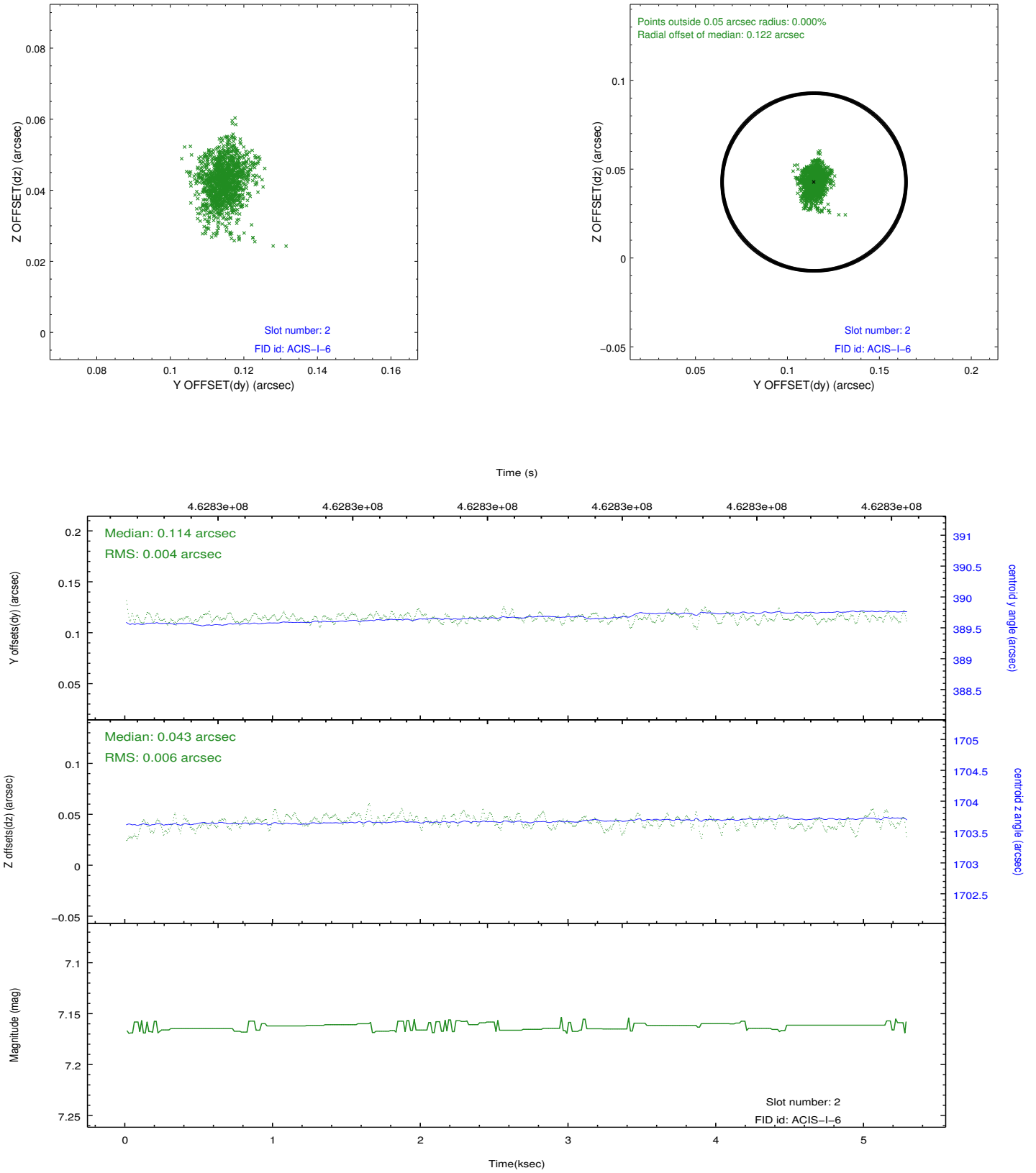
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0889649177194

A.2 Comments