

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5253 - L2 Version 3
Chandra X-Ray Center

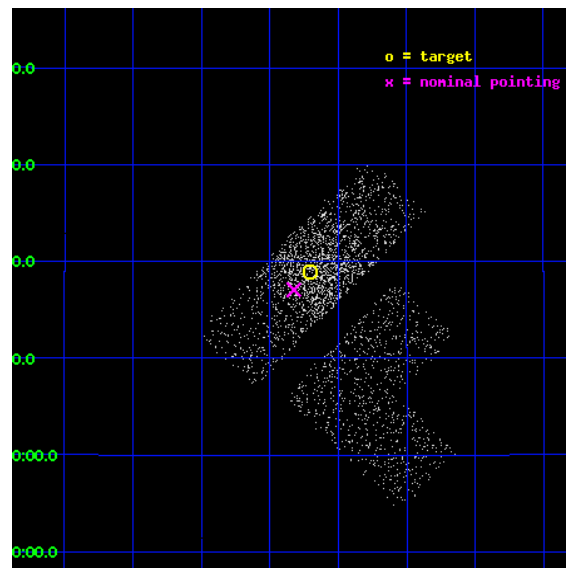
L2 Processing Date : Nov 7 2012

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

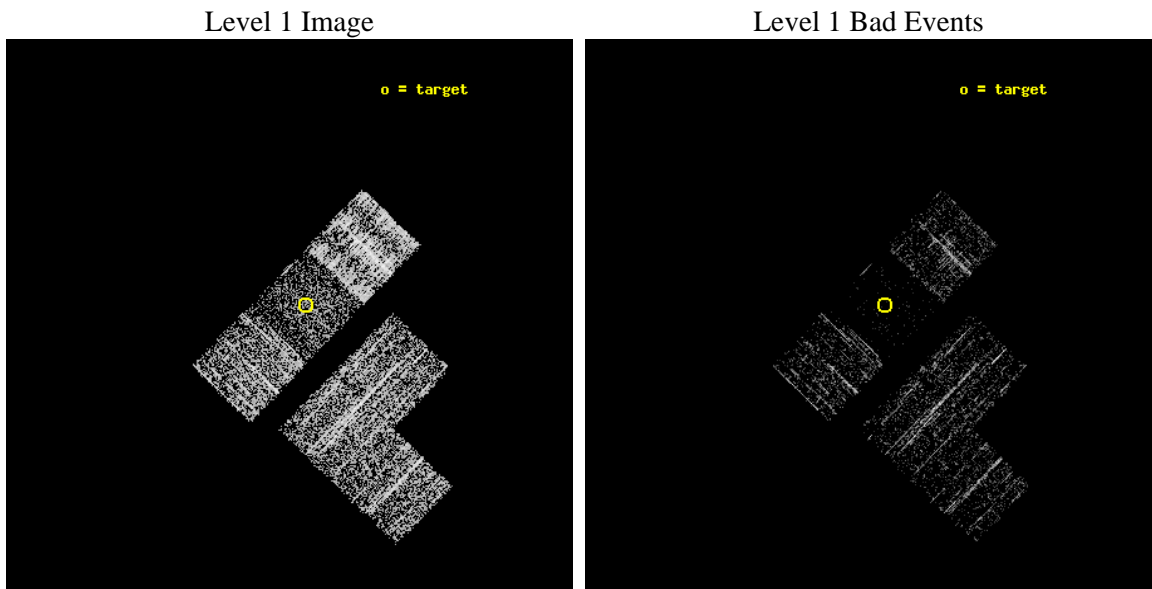
seq_num	100051	Sequence number
obs_id	5253	Observation id
title	High Resolution Imaging of the Source of Comet Encke's X-Rays Over One Nuclear Rotation	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	2P/Encke (2003)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	288.30143	Observer's specified target RA [deg]
dec_targ	17.31621	Observer's specified target Dec [deg]
ra_nom	288.33102010337	Nominal RA [deg]
dec_nom	17.284549293206	Nominal Dec [deg]
roll_nom	314.14783547777	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1471.9999945164	Sum of GTIs [s]
liveltime	1453.3606442538	Livetime [s]
ontime0	1471.9999945164	Sum of GTIs [s]
ontime2	1471.9999945164	Sum of GTIs [s]
ontime3	1471.9999945164	Sum of GTIs [s]
ontime6	1471.9999945164	Sum of GTIs [s]
ontime7	1471.9999945164	Sum of GTIs [s]
ontime8	1471.9999945164	Sum of GTIs [s]
l2events	3084	Number of level 2 events



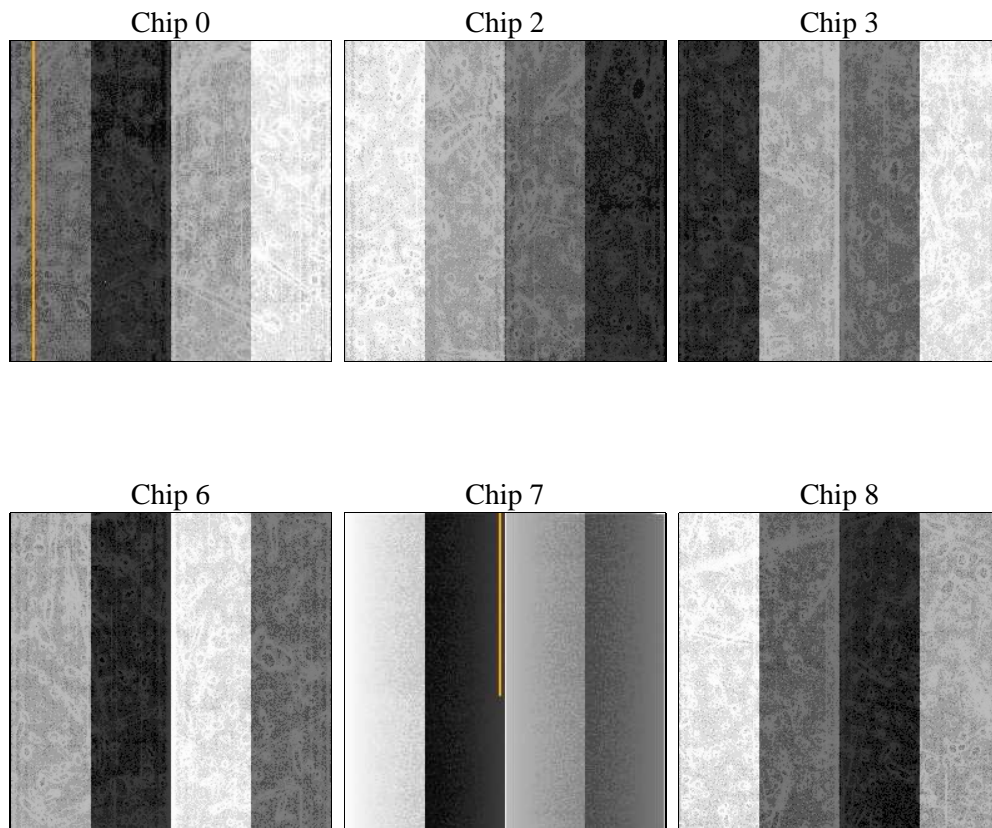
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1290.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1471.9999945164	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	1471.9999945164	Sum of GTIs [s]
date	2012-11-08T02:12:51	Date and time of file creation	ontime2	1471.9999945164	Sum of GTIs [s]
revision	3	Processing version of data	ontime3	1471.9999945164	Sum of GTIs [s]
			ontime6	1471.9999945164	Sum of GTIs [s]
			ontime7	1471.9999945164	Sum of GTIs [s]
			ontime8	1471.9999945164	Sum of GTIs [s]
			l1events	39972	Number of level 1 events

2.1.4 Events

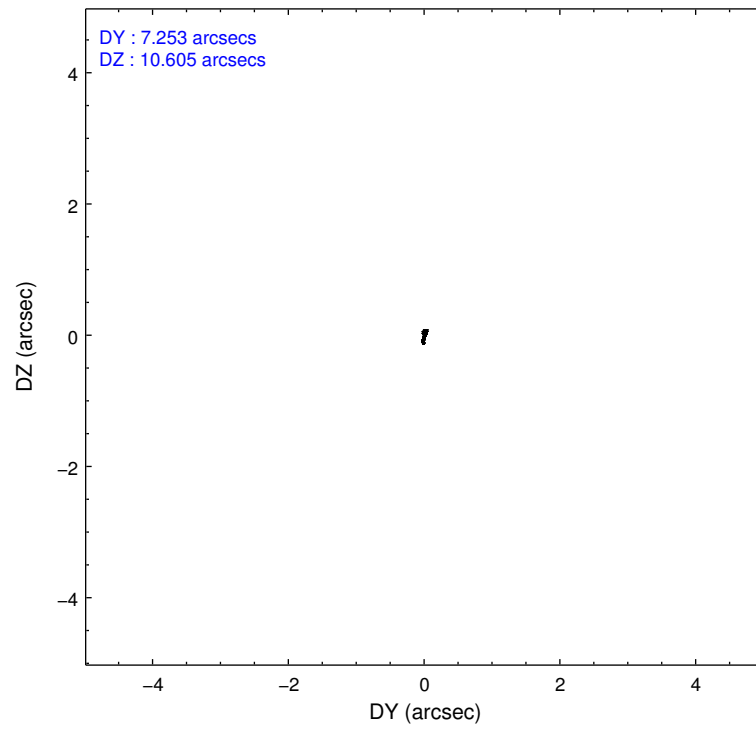
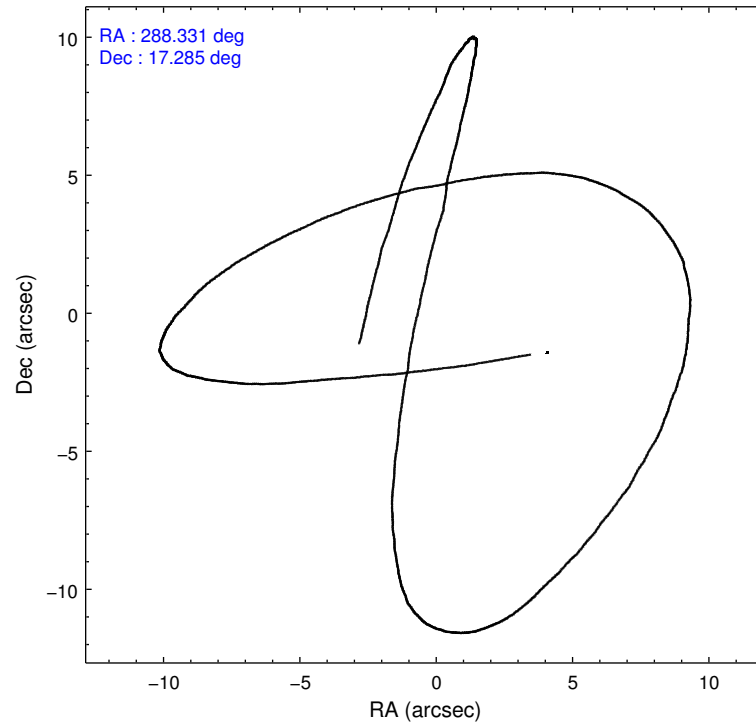
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	5567	6884	6165	6936	2399	12021
rejected events	5103	6316	5820	6433	1019	7192
rejected %	91%	91%	94%	92%	42%	59%

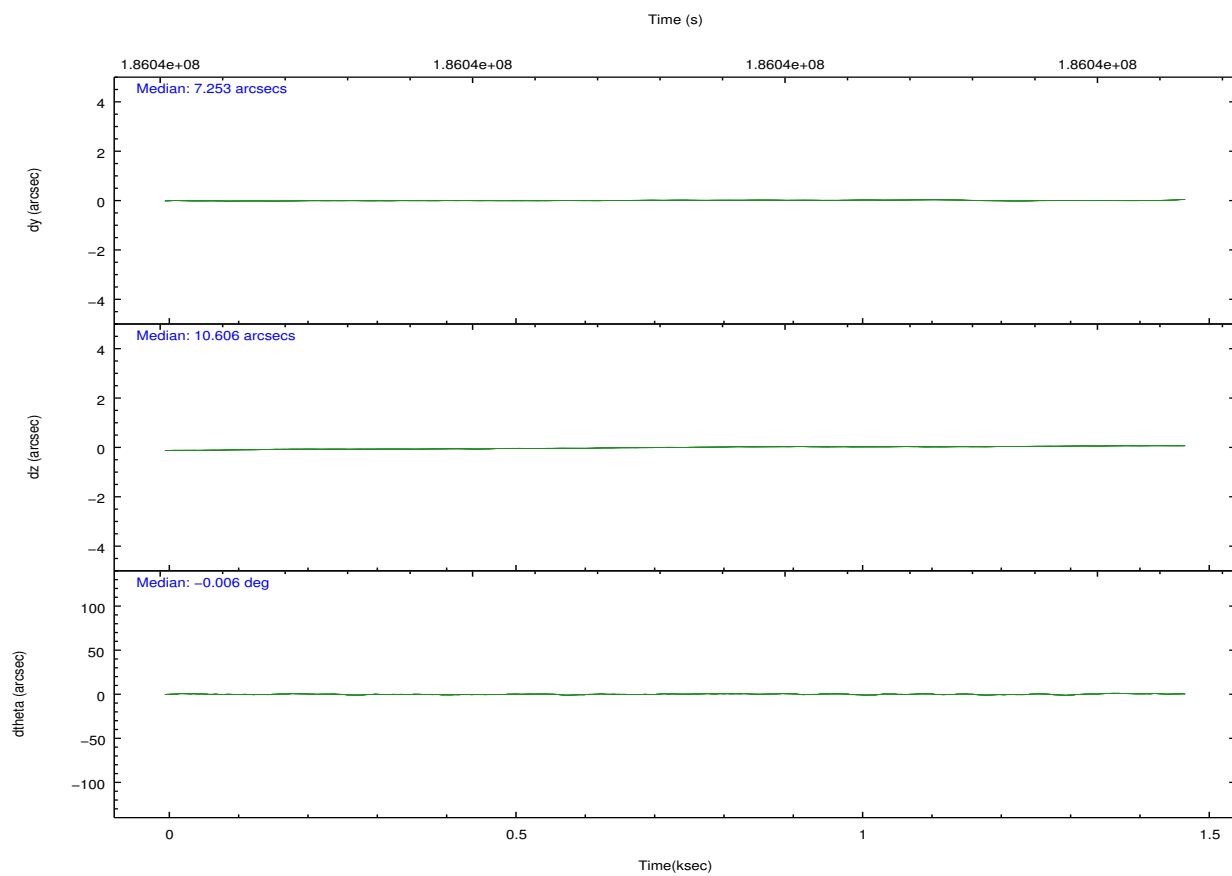
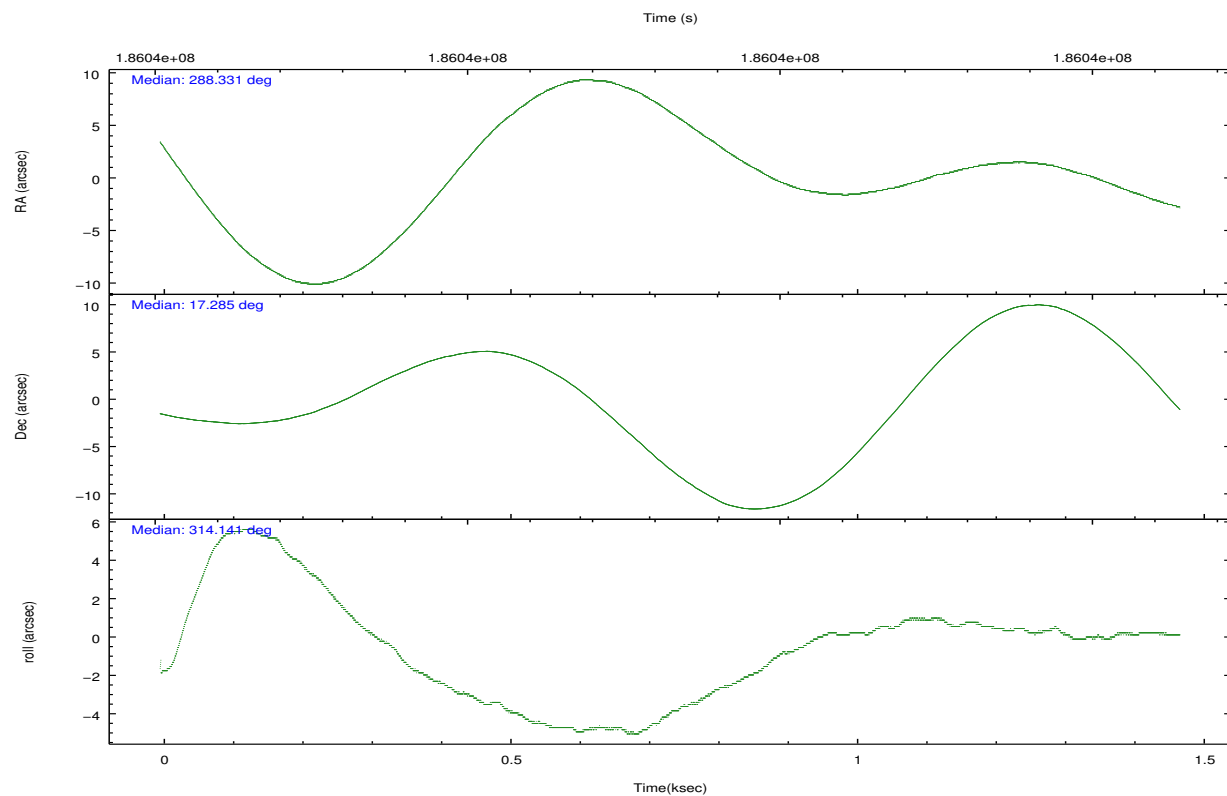
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	228	325	196	282	400	1645
	4%	4%	3%	4%	16%	13%
grade 1 events	6	3	3	4	10	10
	0%	0%	0%	0%	0%	0%
grade 2 events	181	168	83	158	447	1022
	3%	2%	1%	2%	18%	8%
grade 3 events	60	52	49	43	198	960
	1%	0%	0%	0%	8%	7%
grade 4 events	49	72	33	60	205	897
	0%	1%	0%	0%	8%	7%
grade 5 events	36	33	45	48	179	195
	0%	0%	0%	0%	7%	1%
grade 6 events	68	74	61	58	431	1523
	1%	1%	0%	0%	17%	12%
grade 7 events	4939	6157	5695	6283	529	5769
	88%	89%	92%	90%	22%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-023678	ACIS-023678	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	288.303814	288.331020103373	Subarray requested	NONE	NONE
[deg] Pointing Dec	17.291295	17.2845492932058	Alternating exposures requested	N	N
[deg] Pointing Roll	313.999287	314.1478354777665	[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)	186037264.184000	186036887.90618			
Observation start date	2003-11-24T05:00:00	2003-11-24T04:54:47			
[s] Observation end time (MET)	186038554.184000	186038687.80626			
Observation end date	2003-11-24T05:21:30	2003-11-24T05:24:47			
Read mode	TIMED	TIMED			

2.3 Aspect



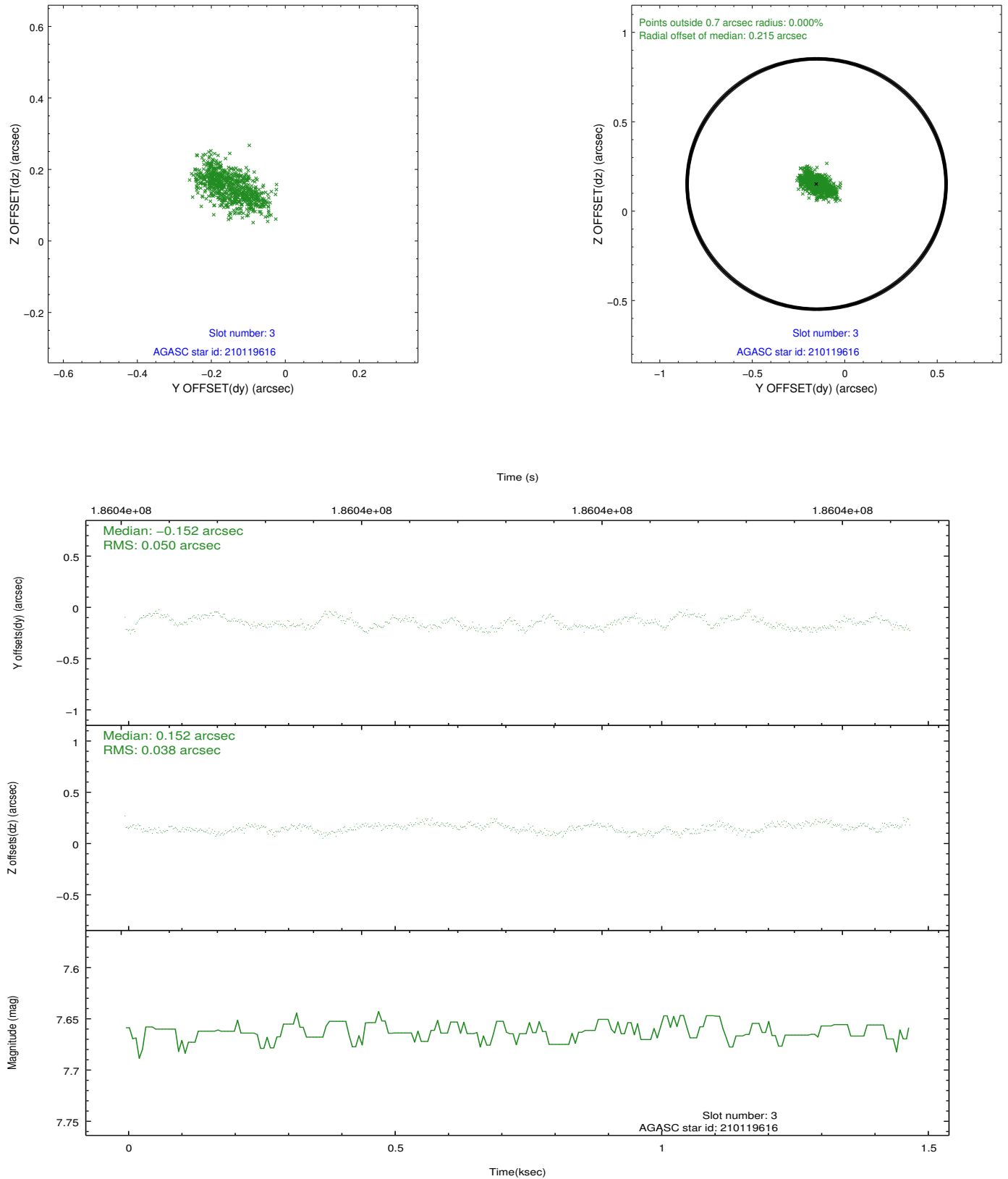


Slot Statistics

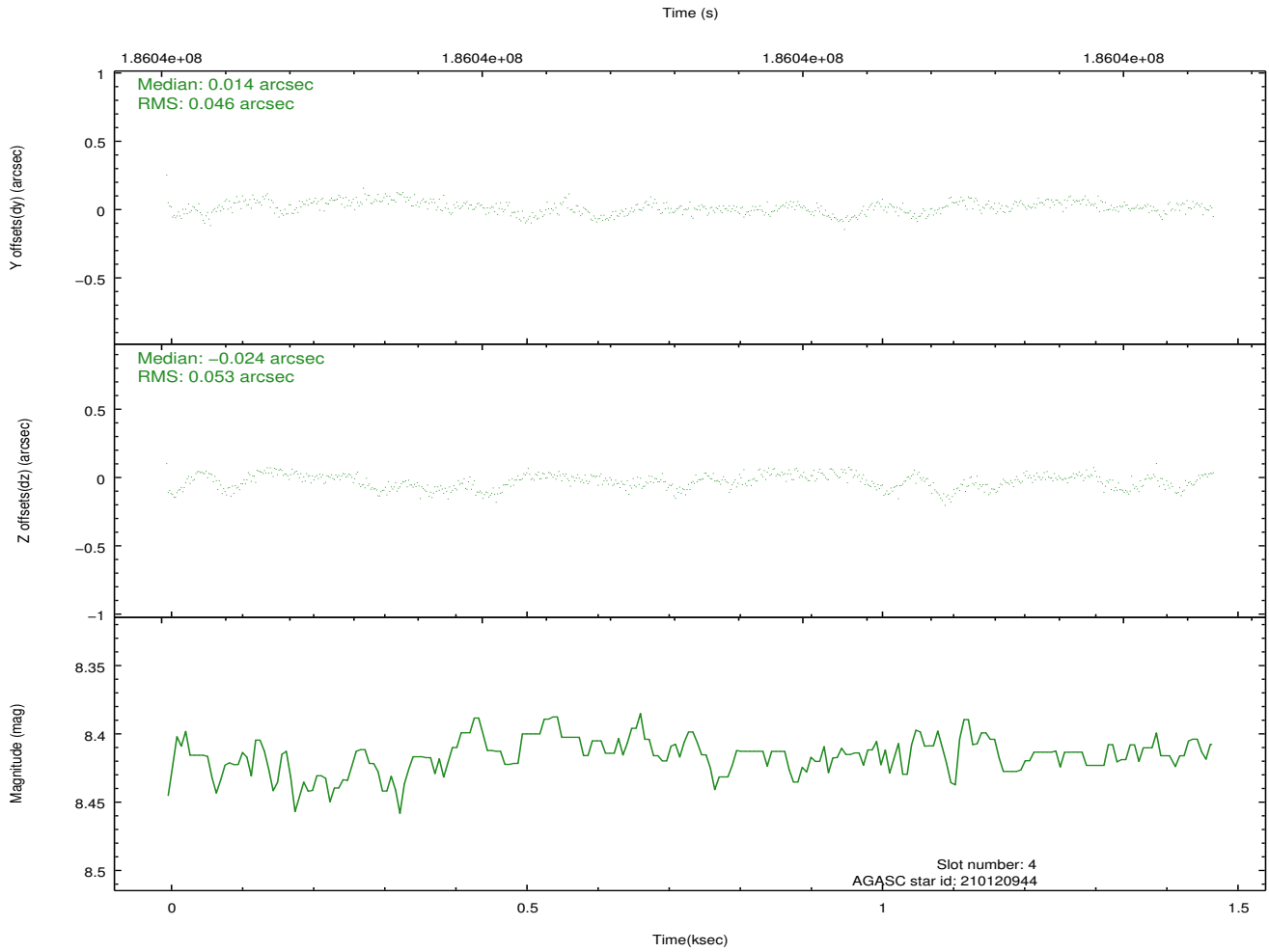
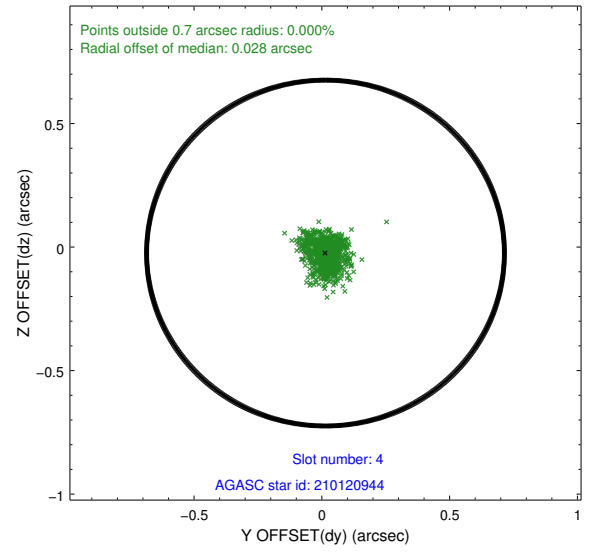
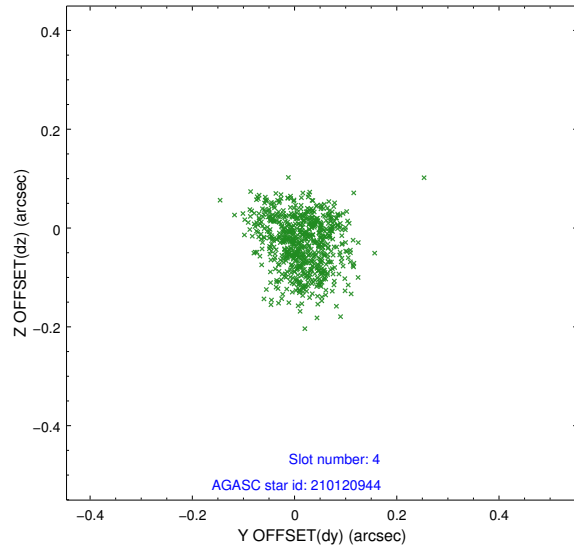
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	359	0.028	-0.056	0.008	0.013	0.000000	0.000000	936.05	-1727.54
1	FID	ACIS-S-5	7.24	360	-0.040	0.021	0.006	0.012	0.000000	0.000000	-1810.50	165.45
2	FID	ACIS-S-6	7.35	360	-0.010	0.046	0.007	0.013	0.000000	0.000000	396.71	814.52
3	GUIDE	210119616	7.66	719	-0.152	0.152	0.069	0.107	288.118619	18.001946	-2279.34	1321.39
4	GUIDE	210120944	8.41	718	0.014	-0.024	0.077	0.119	288.245736	17.506735	-697.59	397.24
5	GUIDE	209585448	7.94	719	-0.026	-0.097	0.060	0.096	288.114724	16.850123	691.87	-1571.16
6	GUIDE	209585808	9.58	718	0.065	0.002	0.112	0.180	288.224102	16.655071	1459.94	-1790.62
7	GUIDE	209597336	9.67	717	0.096	-0.029	0.088	0.144	288.296770	16.634934	1687.39	-1661.04

2.4 Star Slots

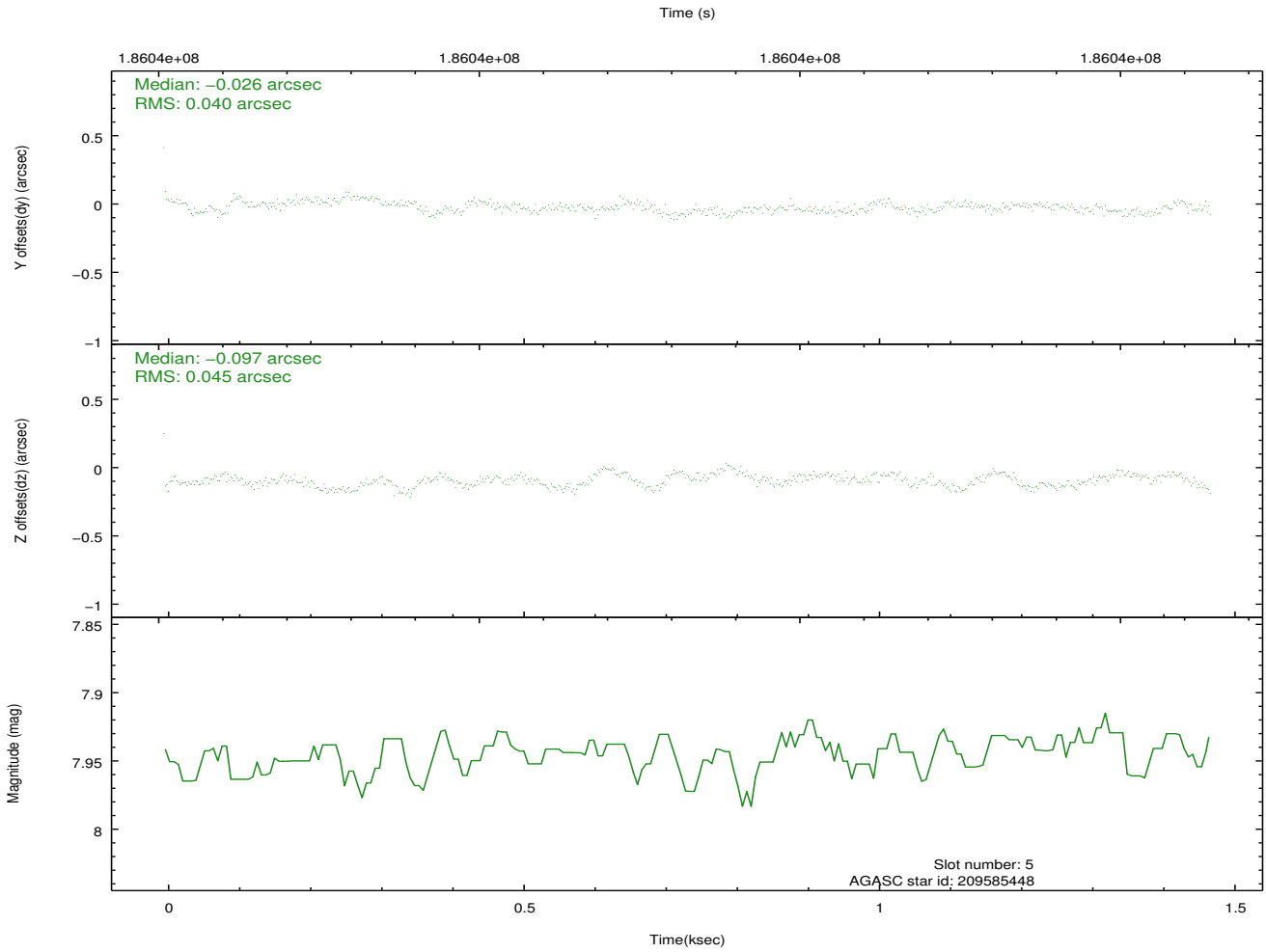
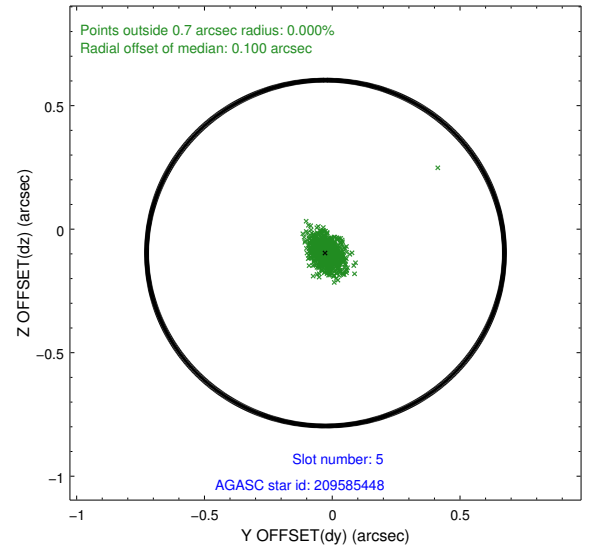
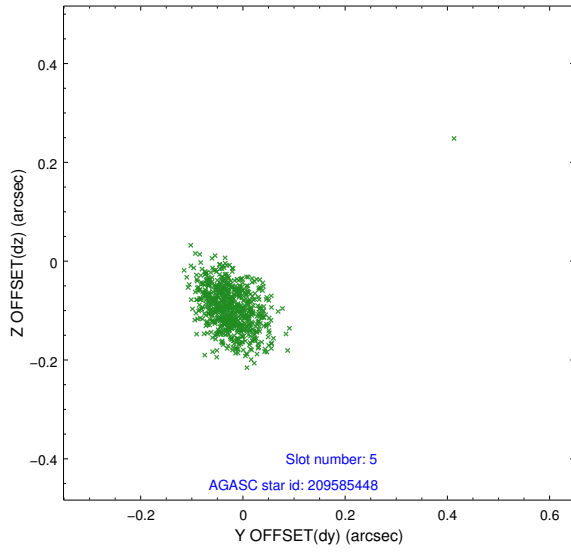
2.4.1 Slot 3



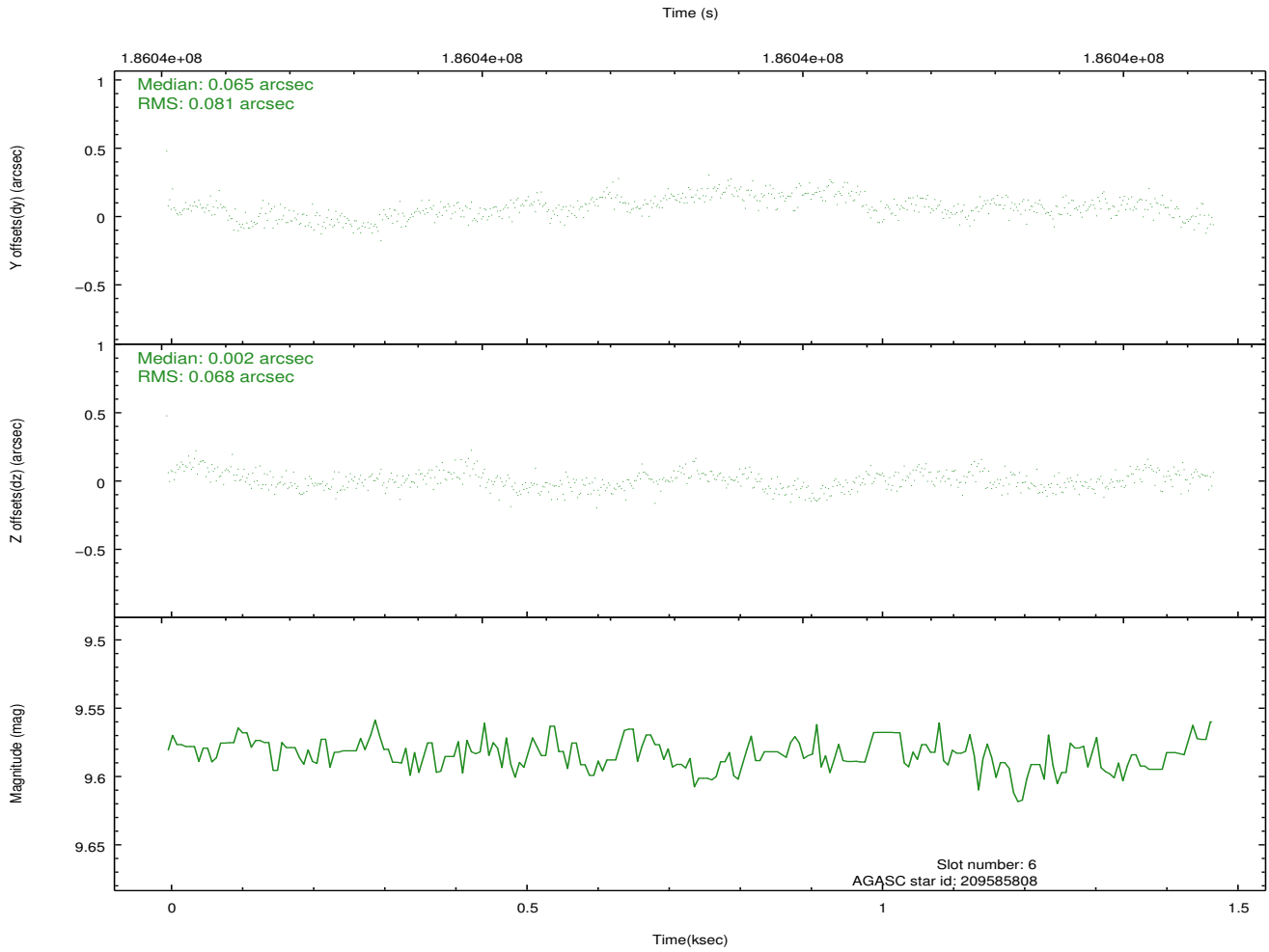
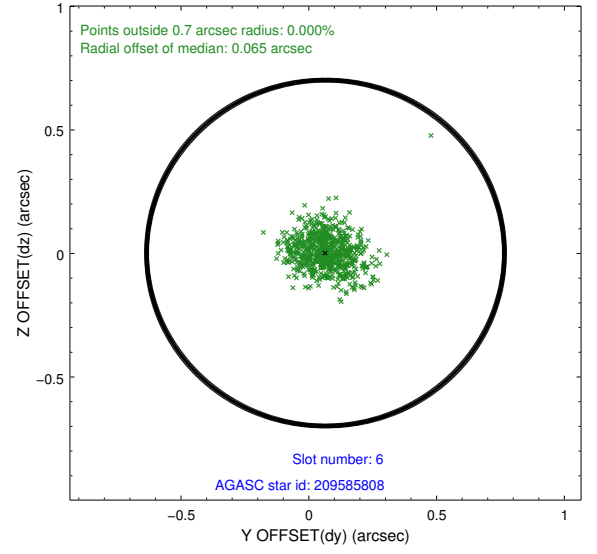
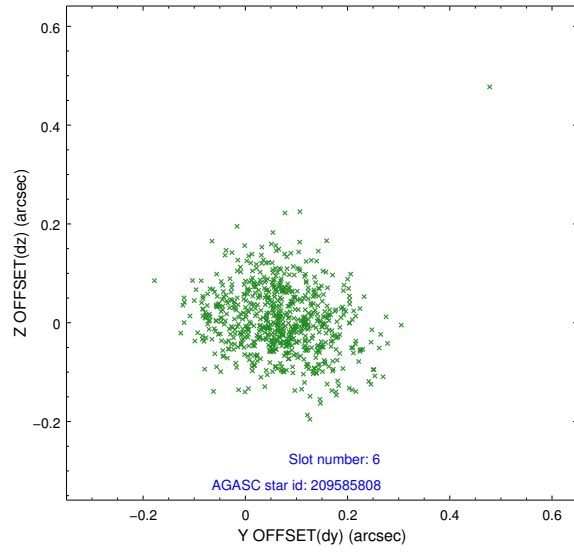
2.4.2 Slot 4



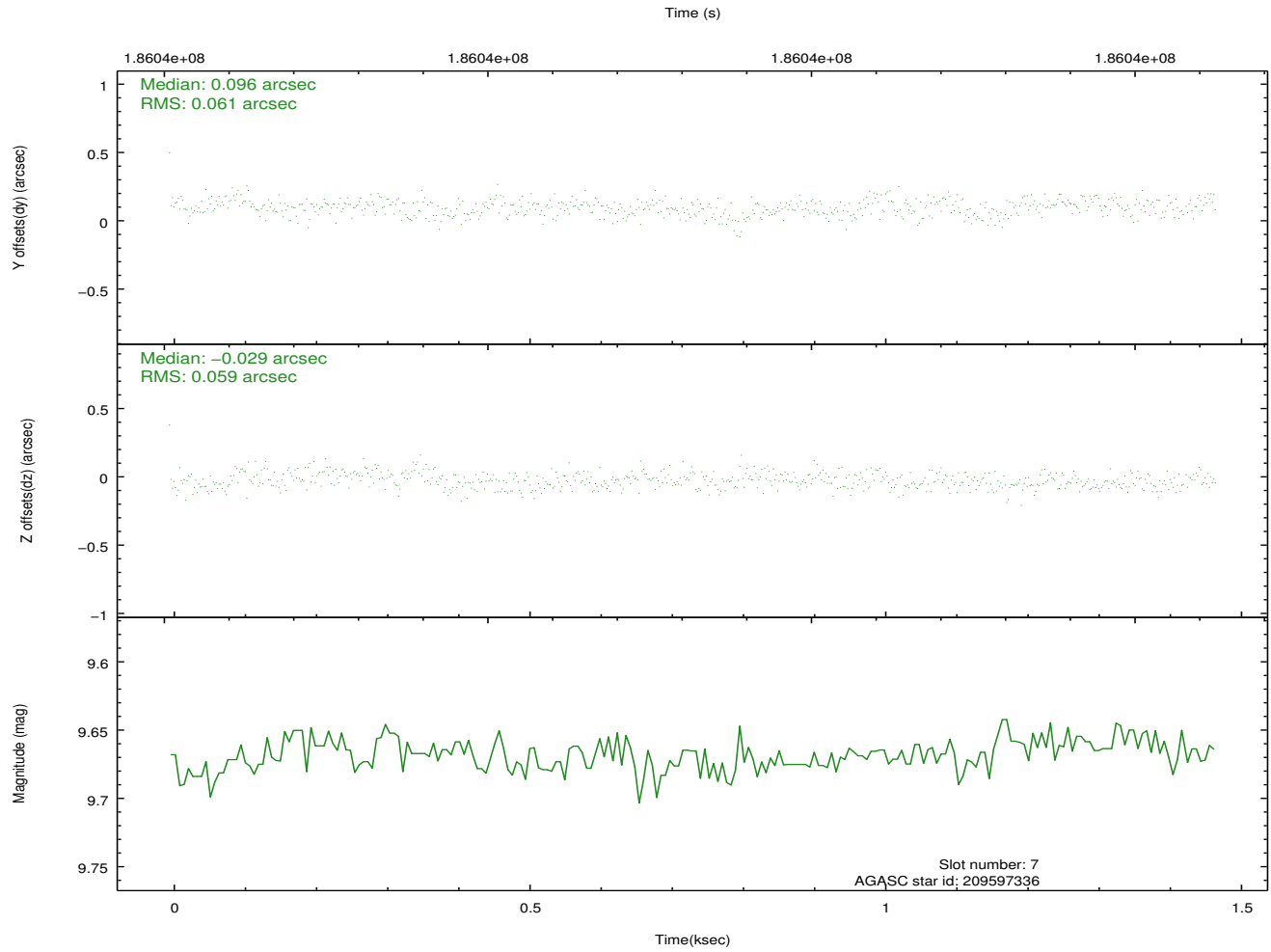
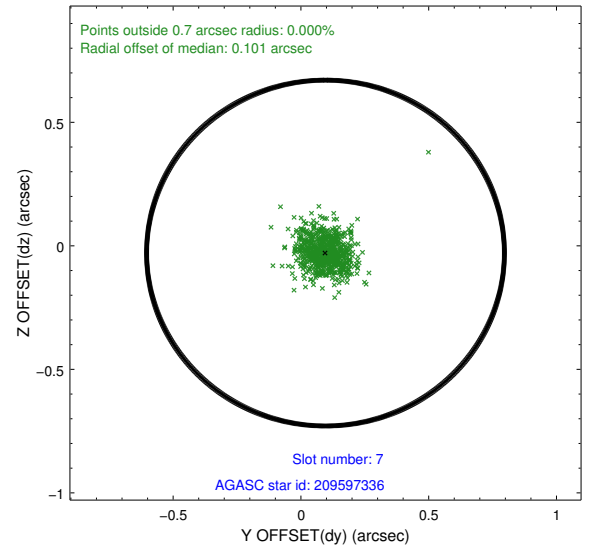
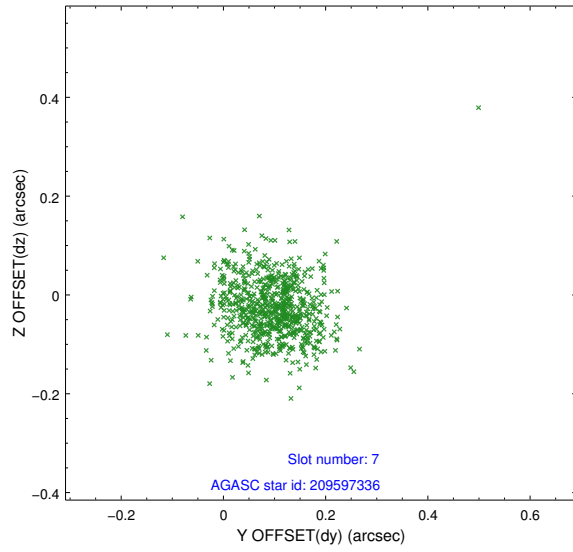
2.4.3 Slot 5



2.4.4 Slot 6

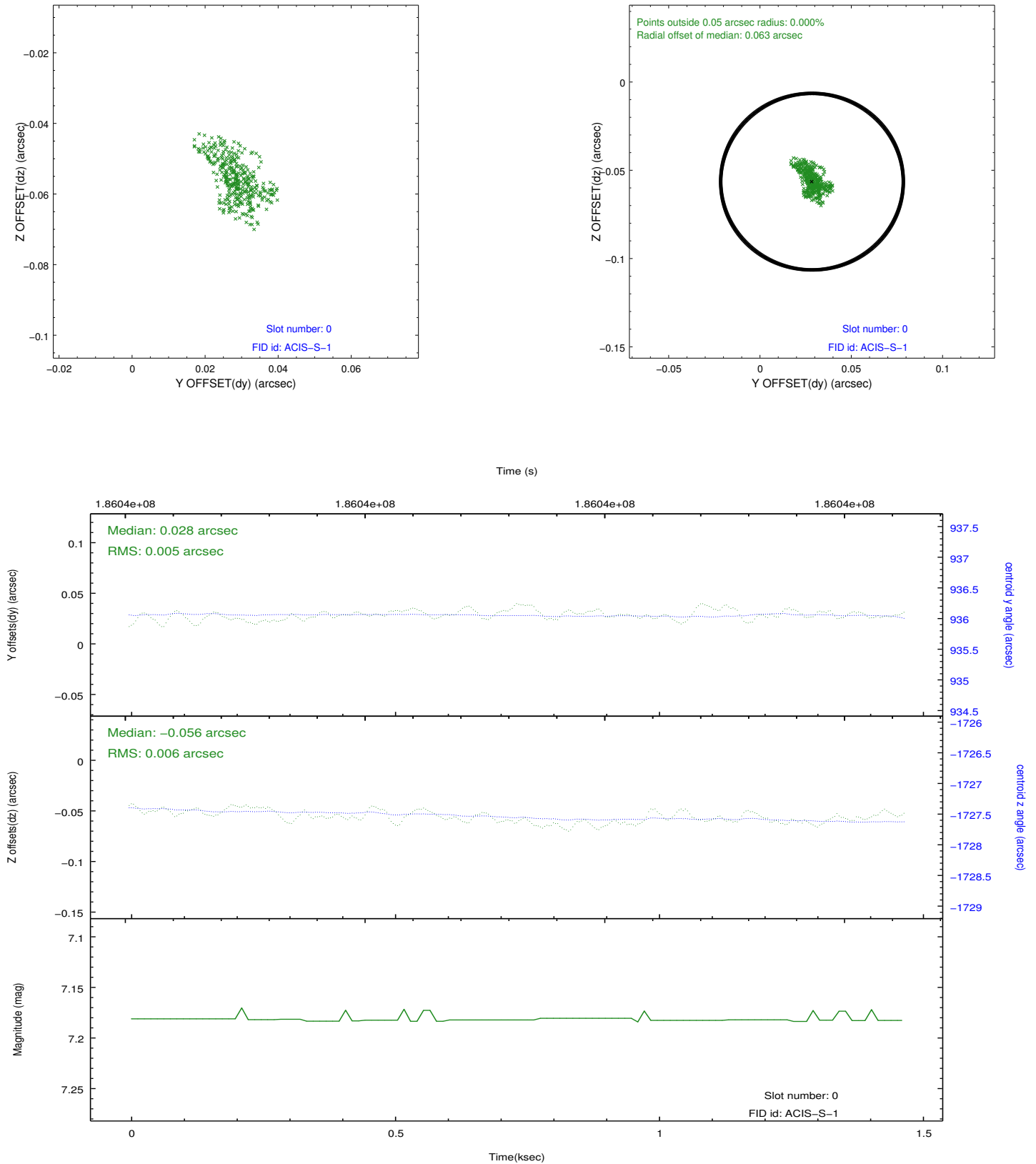


2.4.5 Slot 7

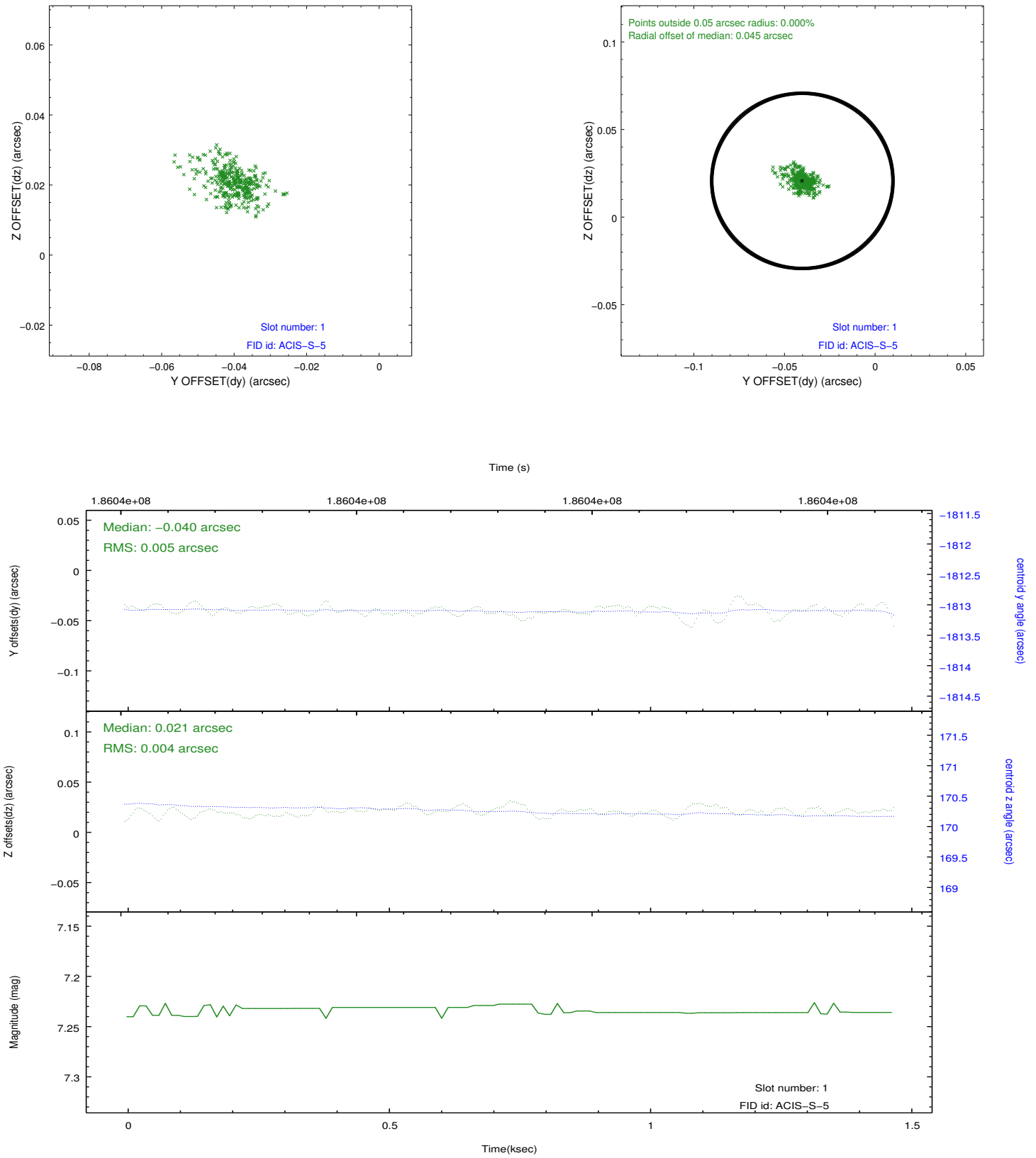


2.5 FID Slots

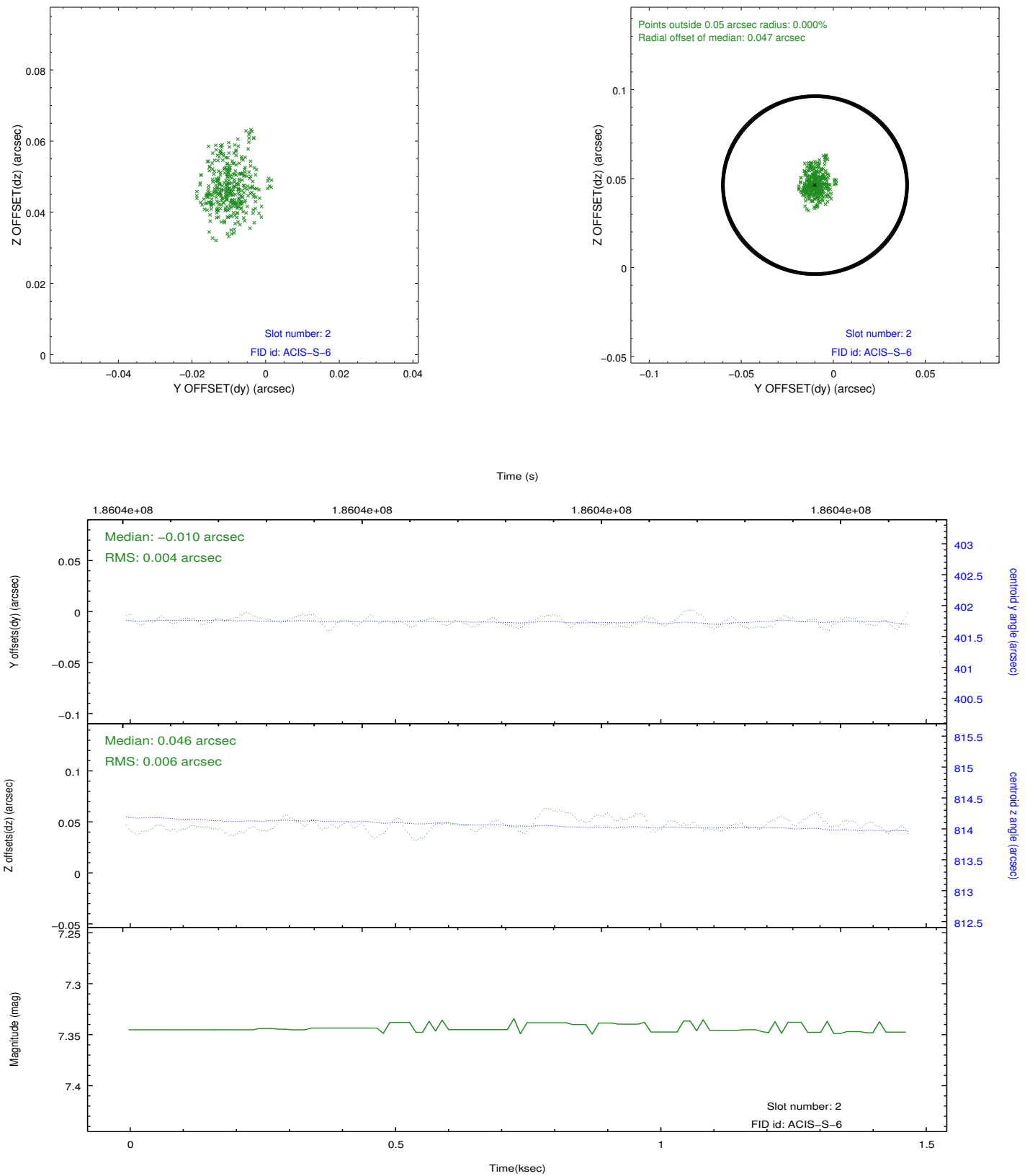
2.5.1 Slot 0



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)	2012.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.471

A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.