

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4468 - L2 Version 3
Chandra X-Ray Center

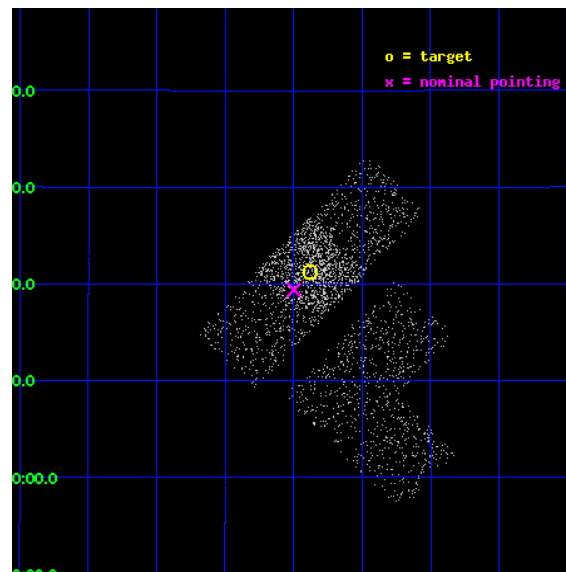
L2 Processing Date : Nov 7 2012

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1 Front

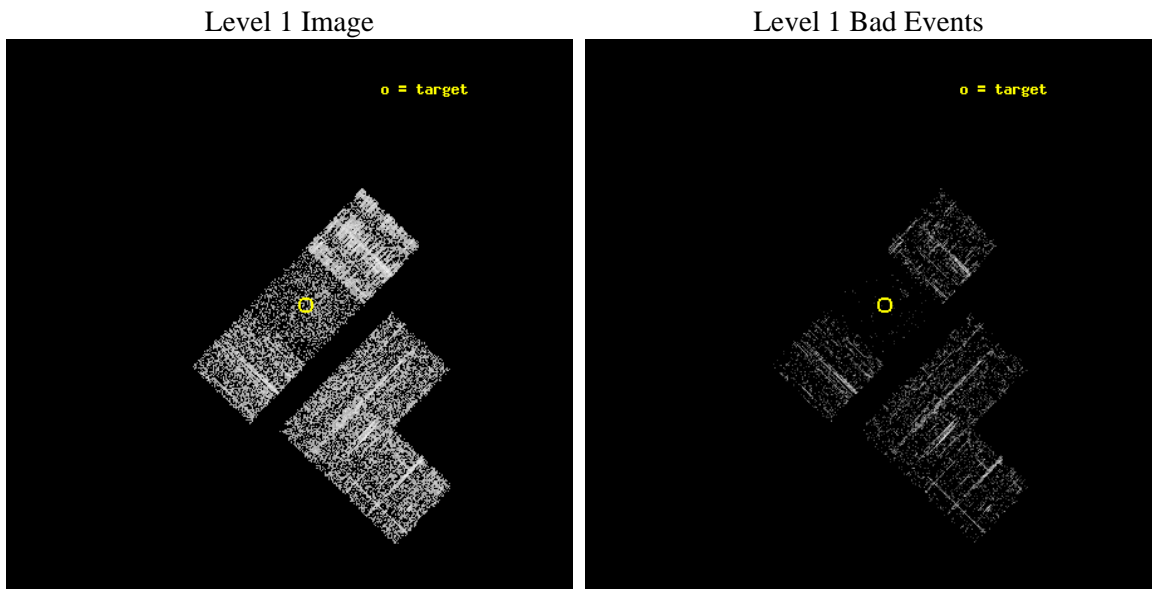
seq_num	100051	Sequence number
obs_id	4468	Observation id
title	High Resolution Imaging of the Source of Comet Encke's X-Rays Over One Nuclear Rotation	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	2P/Encke (2003)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	288.34466	Observer's specified target RA [deg]
dec_targ	17.3552	Observer's specified target Dec [deg]
ra_nom	288.37438671836	Nominal RA [deg]
dec_nom	17.323385809882	Nominal Dec [deg]
roll_nom	314.14786881678	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1471.4689067602	Sum of GTIs [s]
livetime	1452.8362814506	Livetime [s]
ontime0	1471.5099467635	Sum of GTIs [s]
ontime2	1471.3047467768	Sum of GTIs [s]
ontime3	1471.3868267536	Sum of GTIs [s]
ontime6	1471.4278667569	Sum of GTIs [s]
ontime7	1471.4689067602	Sum of GTIs [s]
ontime8	1471.3457867503	Sum of GTIs [s]
l2events	2903	Number of level 2 events



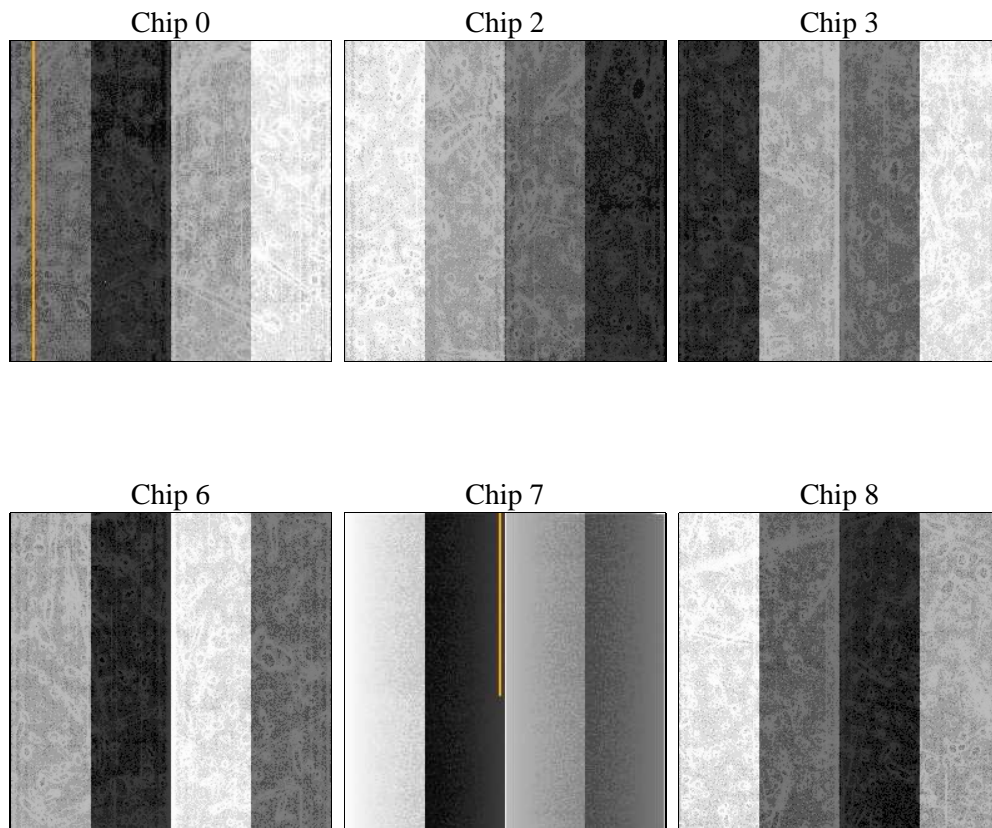
2 OBI

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	1471.4689067602	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	1471.5099467635	Sum of GTIs [s]
date	2012-11-08T02:12:14	Date and time of file creation	ontime2	1471.3047467768	Sum of GTIs [s]
revision	3	Processing version of data	ontime3	1471.3868267536	Sum of GTIs [s]
			ontime6	1471.4278667569	Sum of GTIs [s]
			ontime7	1471.4689067602	Sum of GTIs [s]
			ontime8	1471.3457867503	Sum of GTIs [s]
			l1events	36836	Number of level 1 events

2.1.4 Events

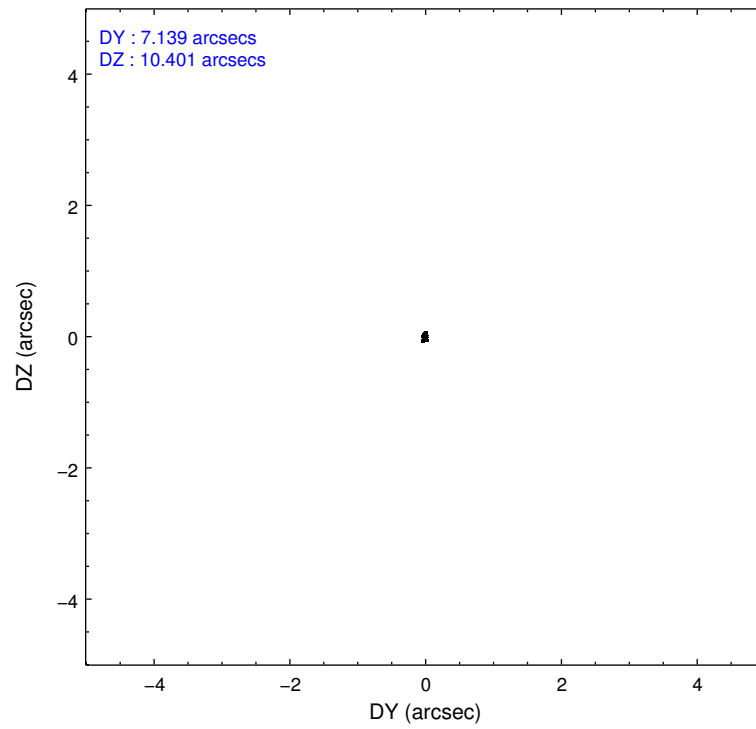
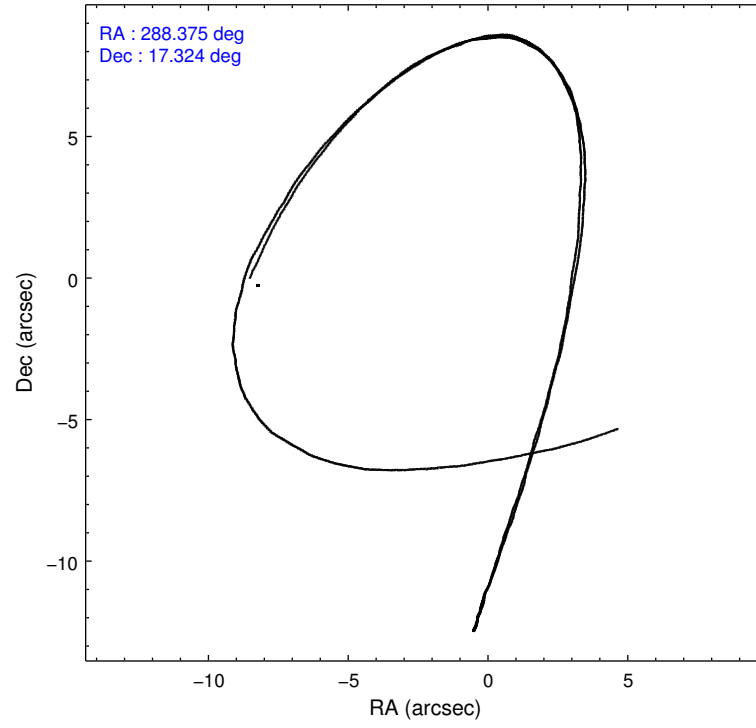
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	5579	6649	5294	5664	2134	11516
rejected events	5057	6095	4933	5190	736	6296
rejected %	90%	91%	93%	91%	34%	54%

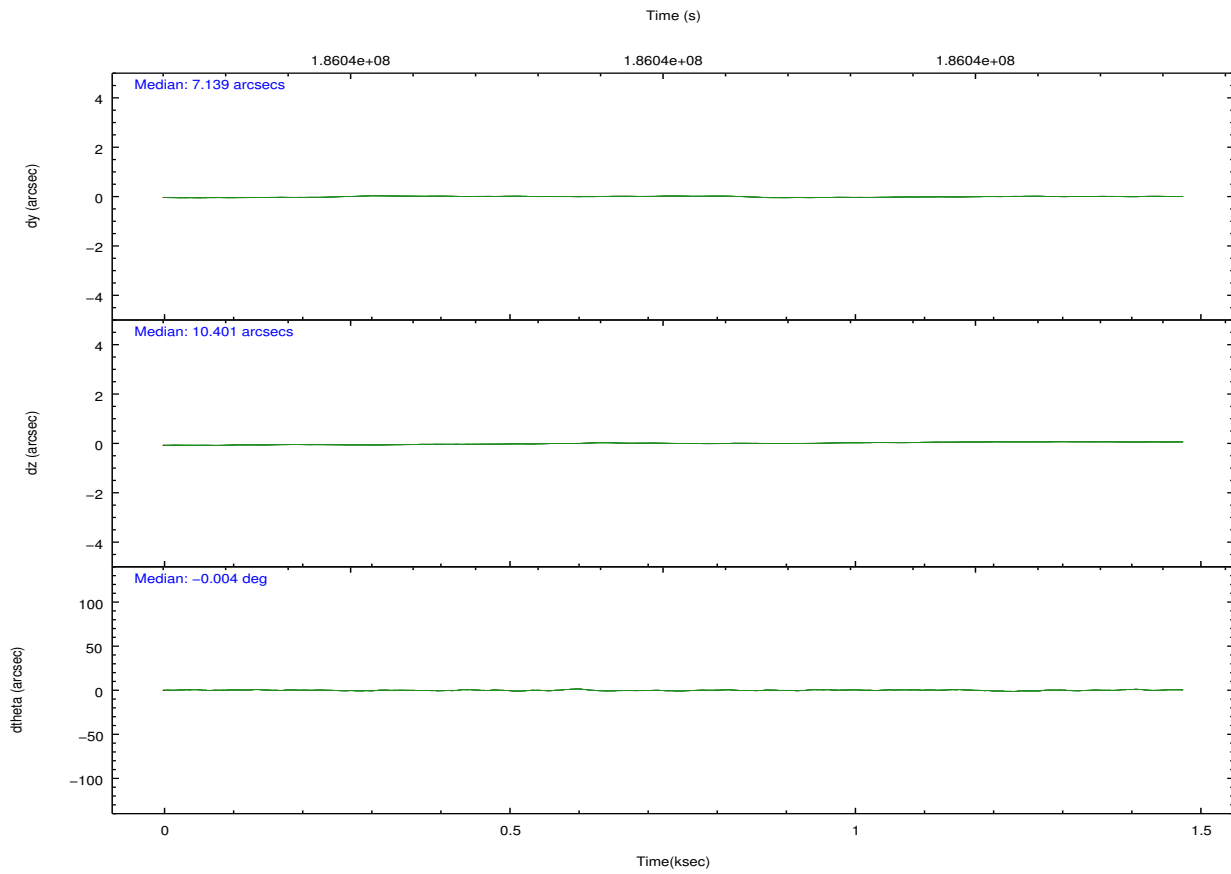
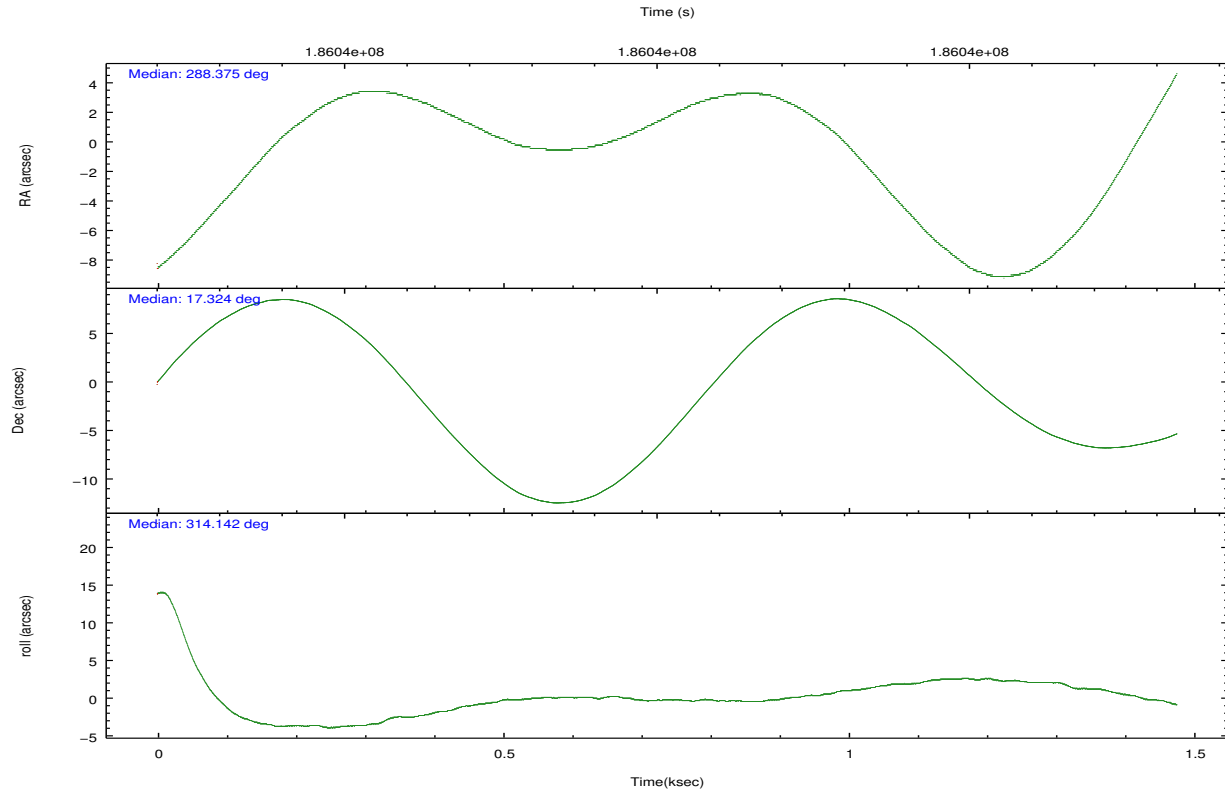
	ccd 0	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	218	285	180	257	375	1759
	3%	4%	3%	4%	17%	15%
grade 1 events	6	1	1	4	6	19
	0%	0%	0%	0%	0%	0%
grade 2 events	196	186	80	117	361	776
	3%	2%	1%	2%	16%	6%
grade 3 events	51	42	52	46	177	999
	0%	0%	0%	0%	8%	8%
grade 4 events	56	42	38	46	185	937
	1%	0%	0%	0%	8%	8%
grade 5 events	46	32	49	53	135	173
	0%	0%	0%	0%	6%	1%
grade 6 events	44	62	44	42	433	1269
	0%	0%	0%	0%	20%	11%
grade 7 events	4962	5999	4850	5099	462	5584
	88%	90%	91%	90%	21%	48%

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	288.347041	288.3743867183559	Subarray requested	NONE	NONE
[deg] Pointing Dec	17.330297	17.32338580988227	Alternating exposures requested	N	N
[deg] Pointing Roll	313.999284	314.1478688167793	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	185932864.184000	185932864.184000			
[s] Window stop time (MET)	186188464.184000	186188464.184000			
[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)	186035464.184000	186034397.15608			
Observation start date	2003-11-24T04:30:00	2003-11-24T04:13:17			
[s] Observation end time (MET)	186036754.184000	186036887.90618			
Observation end date	2003-11-24T04:51:30	2003-11-24T04:54:47			
Read mode	TIMED	TIMED			

2.3 Aspect



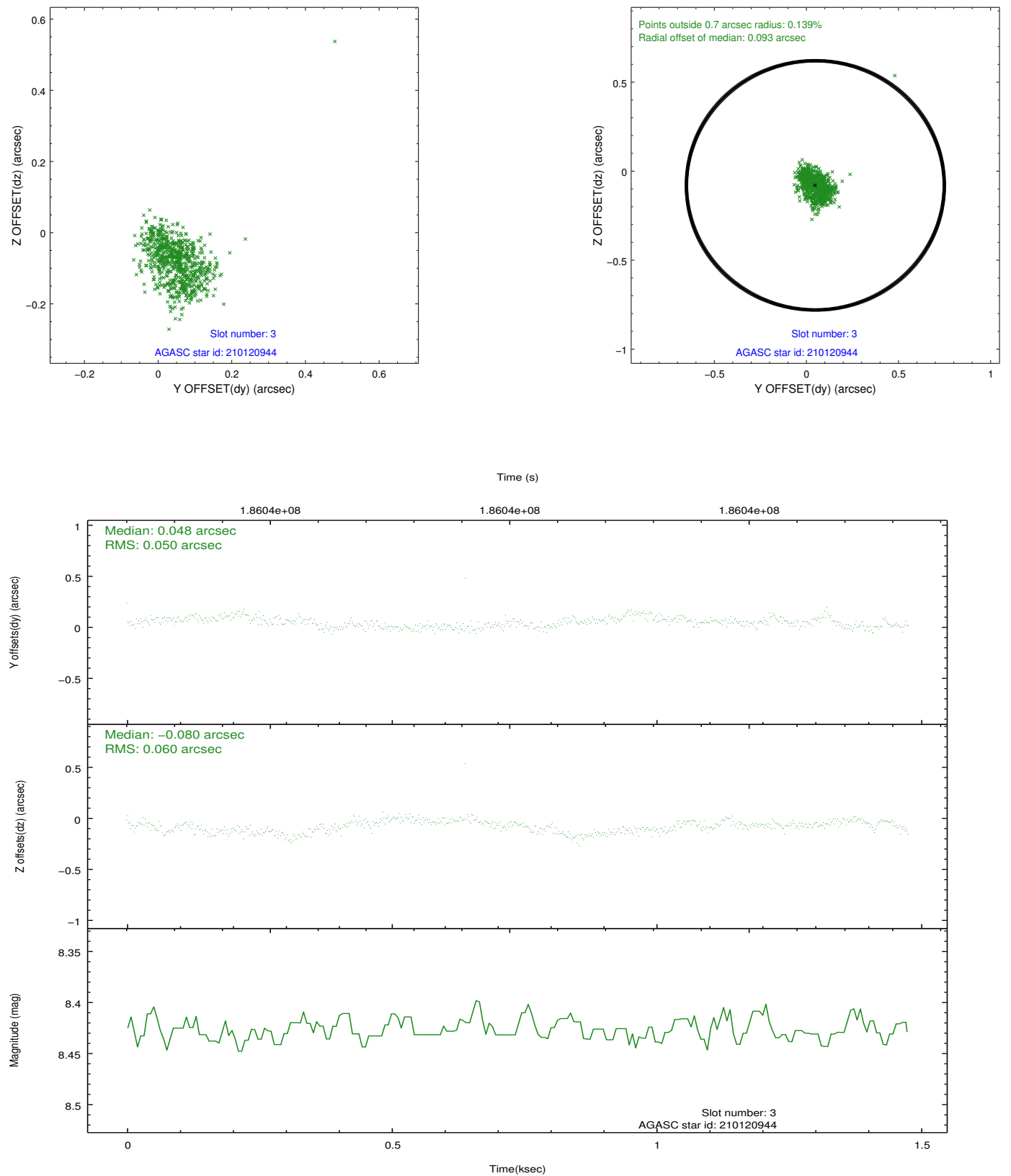


Slot Statistics

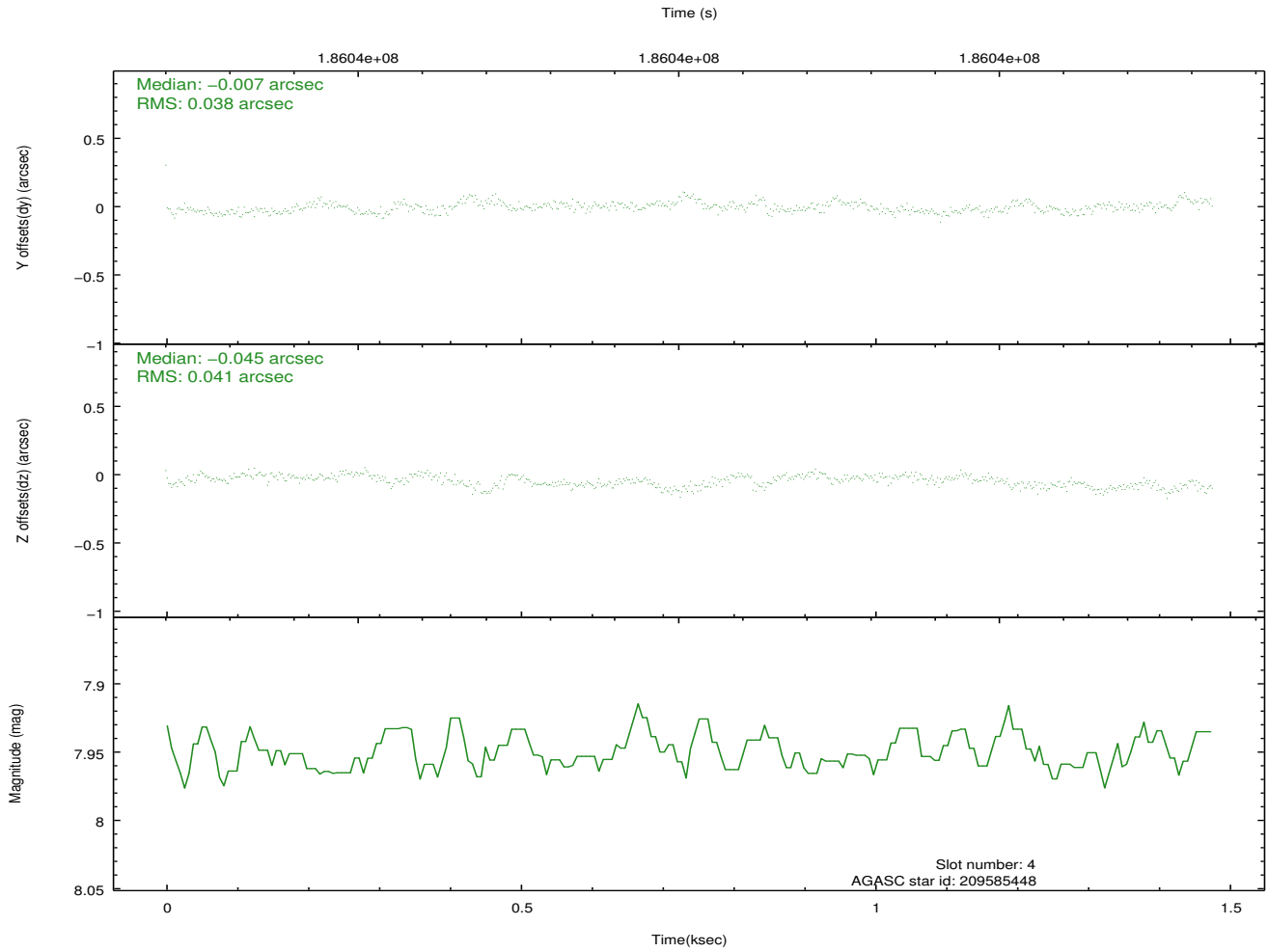
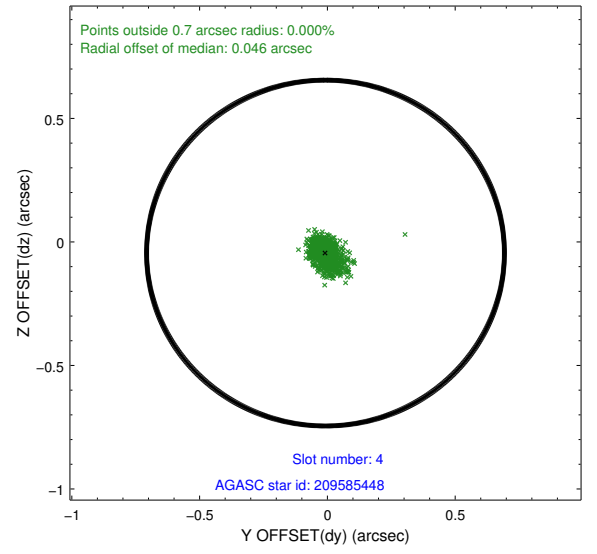
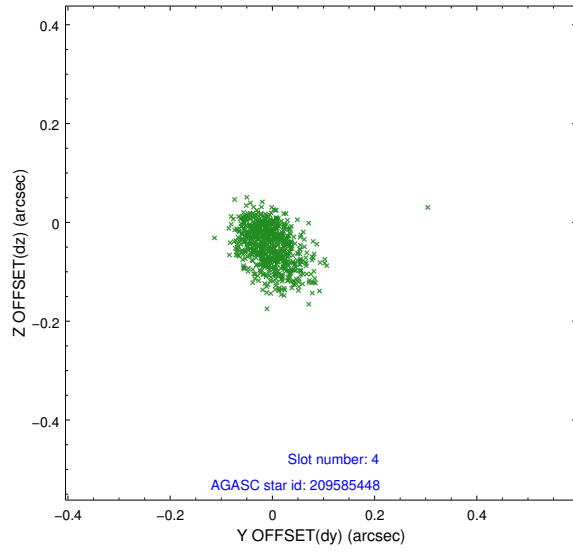
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	361	0.014	-0.033	0.007	0.011	0.000000	0.000000	936.13	-1727.33
1	FID	ACIS-S-2	7.10	360	-0.067	-0.011	0.006	0.010	0.000000	0.000000	-757.34	-1736.47
2	FID	ACIS-S-4	7.20	361	0.026	0.051	0.005	0.009	0.000000	0.000000	2151.39	172.24
3	GUIDE	210120944	8.43	721	0.048	-0.080	0.080	0.120	288.245736	17.506735	-697.40	191.15
4	GUIDE	209585448	7.95	721	-0.007	-0.045	0.058	0.094	288.114724	16.850123	688.40	-1775.94
5	GUIDE	210119616	7.67	721	-0.140	0.024	0.056	0.090	288.118619	18.001946	-2281.16	1115.00
6	GUIDE	210119208	9.13	721	-0.013	0.014	0.098	0.151	288.902715	17.700408	361.11	2300.18
7	GUIDE	210118592	9.29	720	0.112	0.086	0.113	0.167	289.109894	17.526611	1308.59	2382.04

2.4 Star Slots

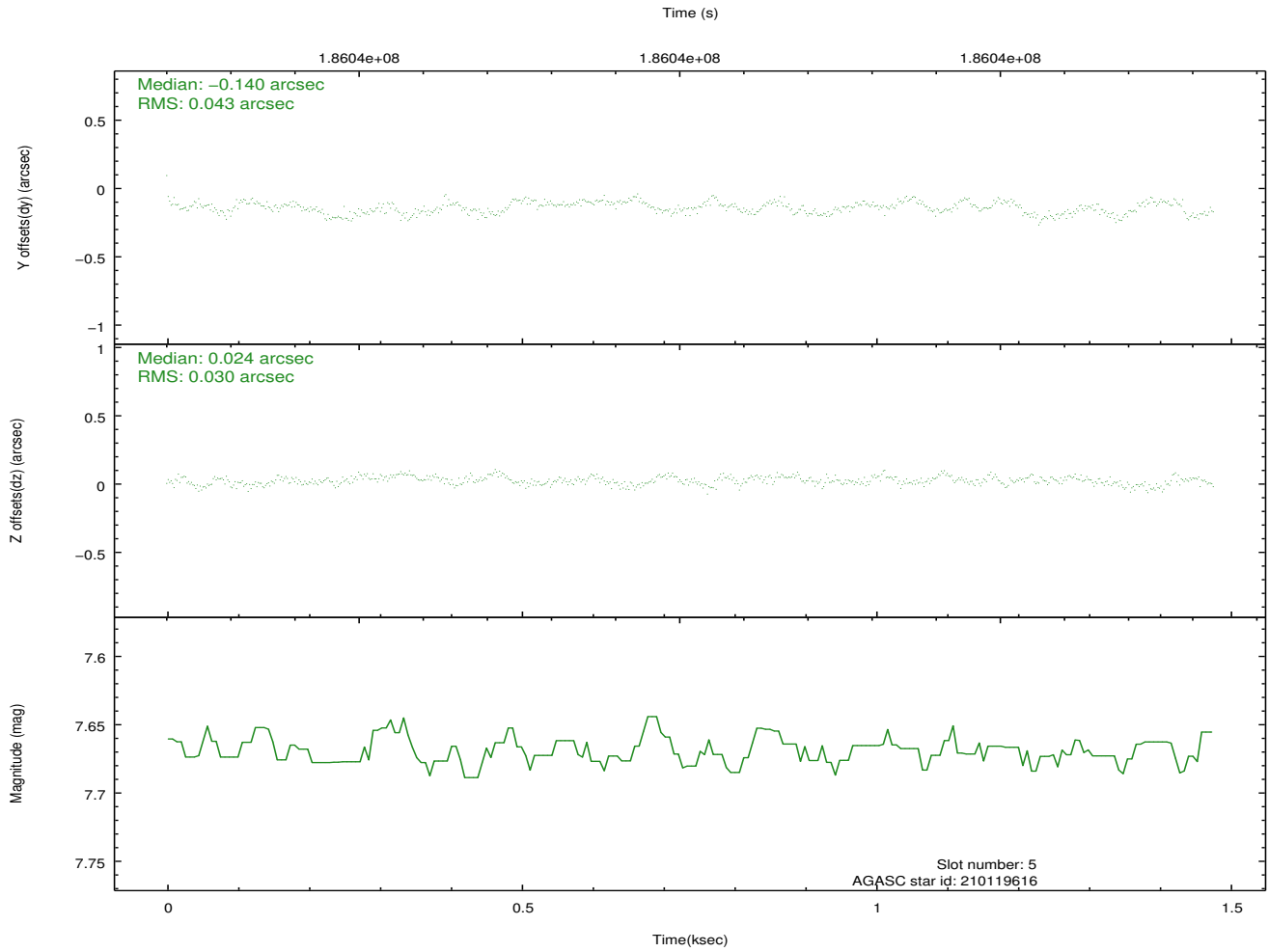
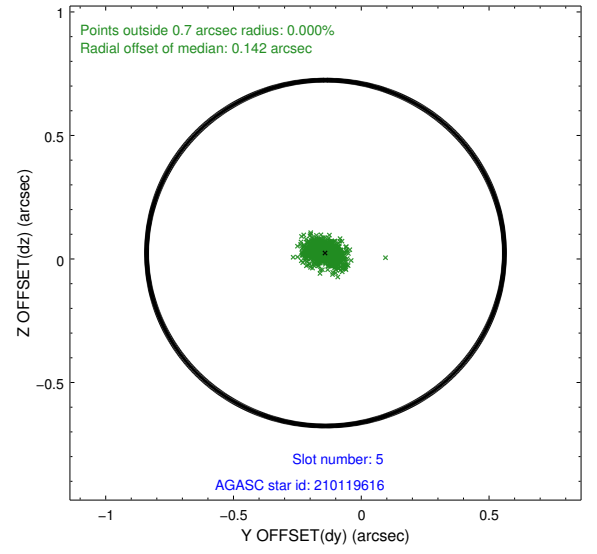
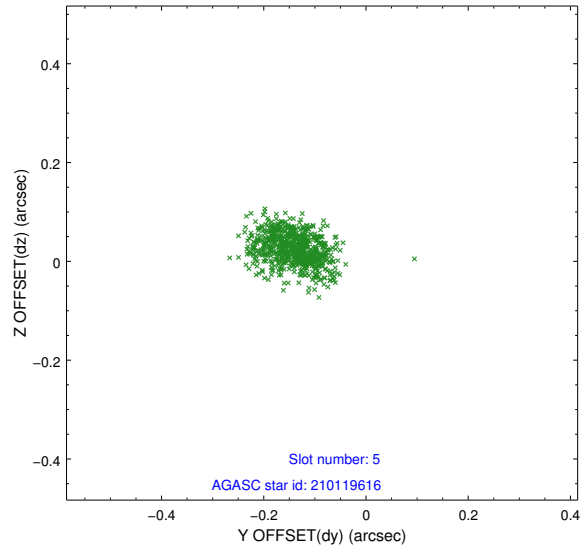
2.4.1 Slot 3



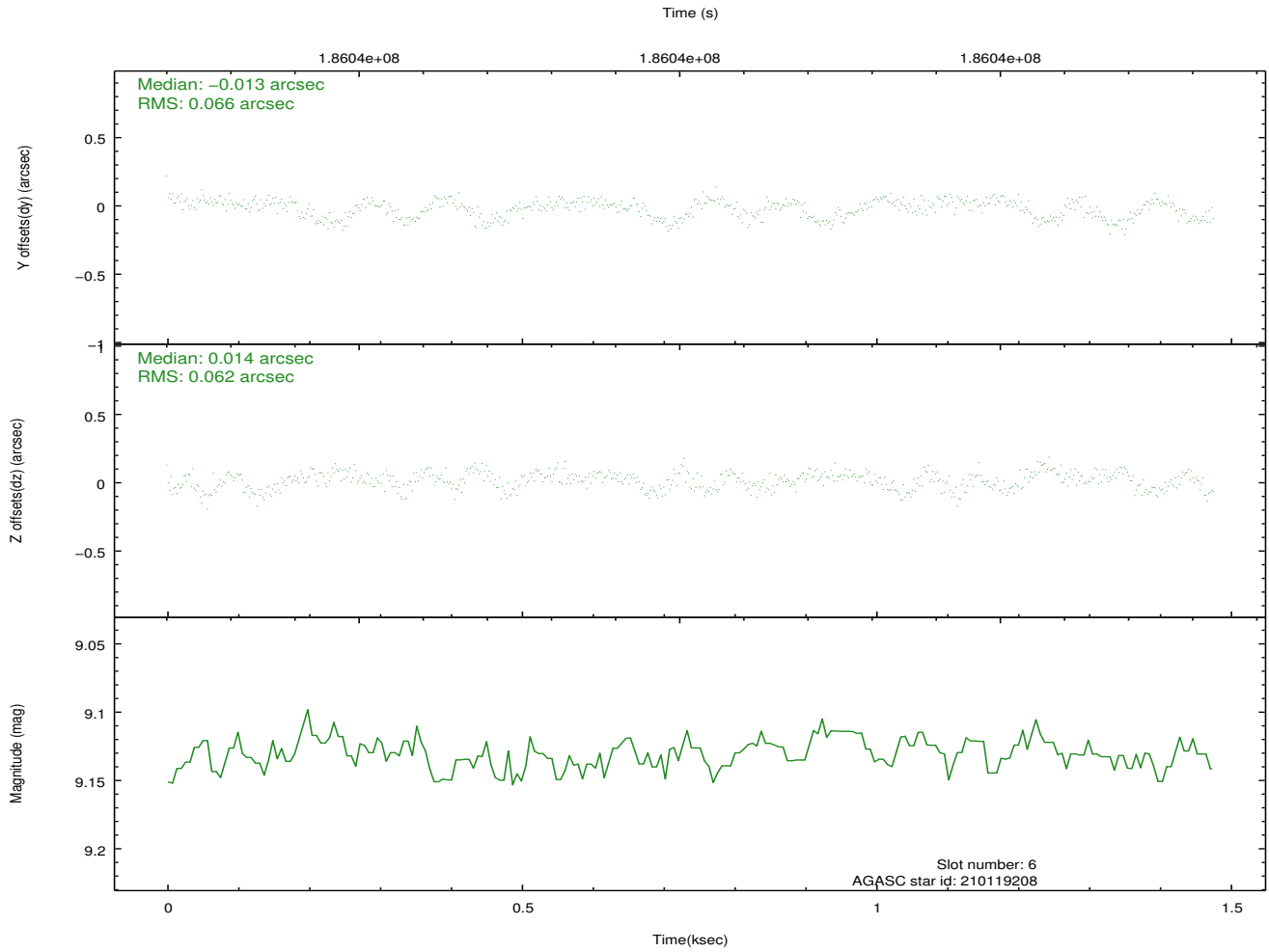
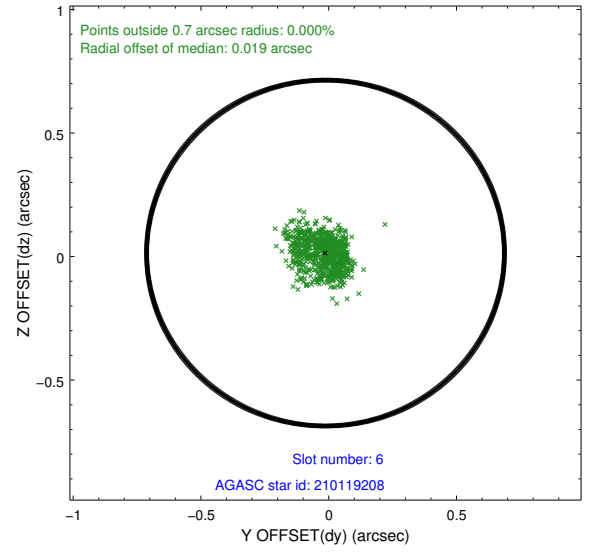
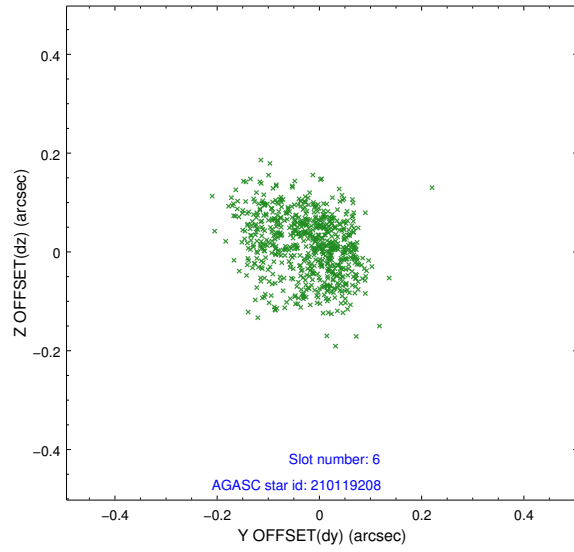
2.4.2 Slot 4



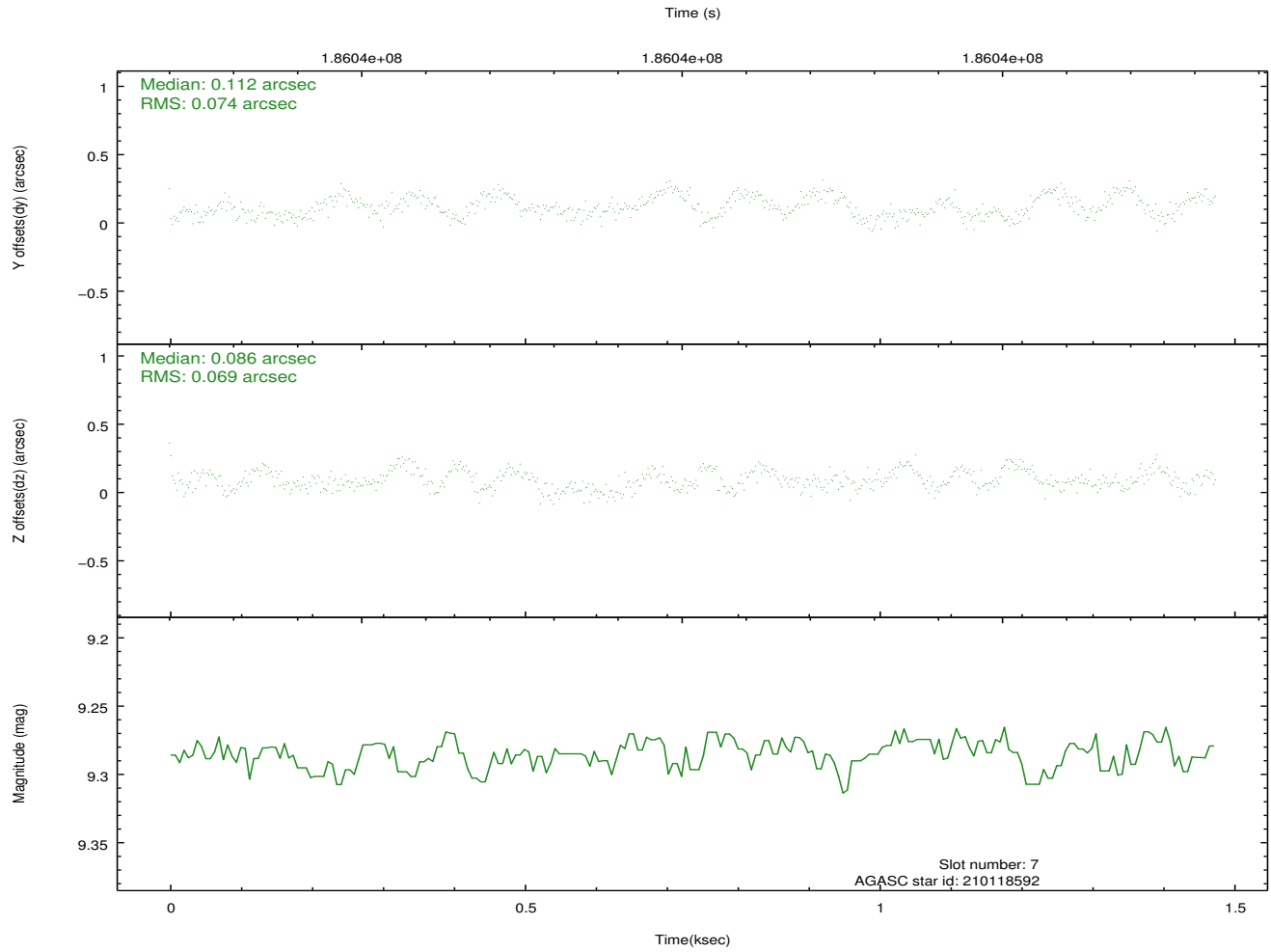
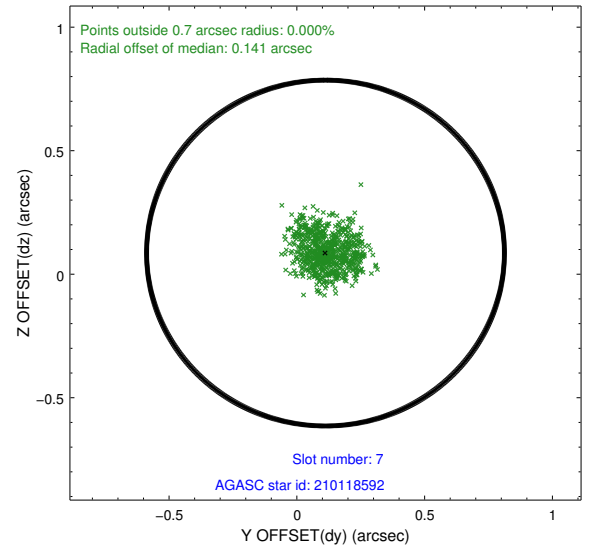
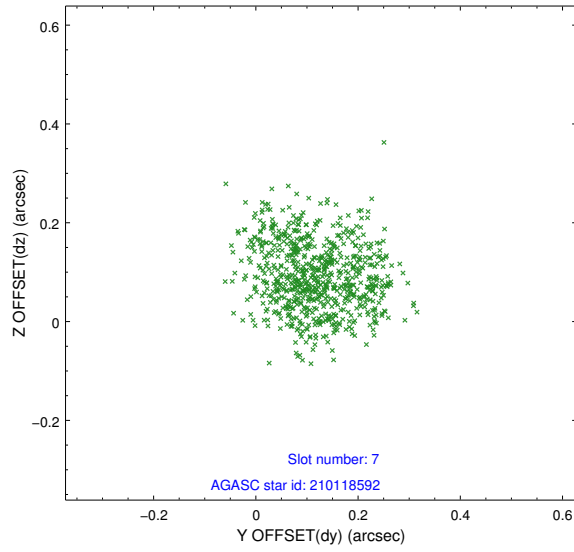
2.4.3 Slot 5



2.4.4 Slot 6

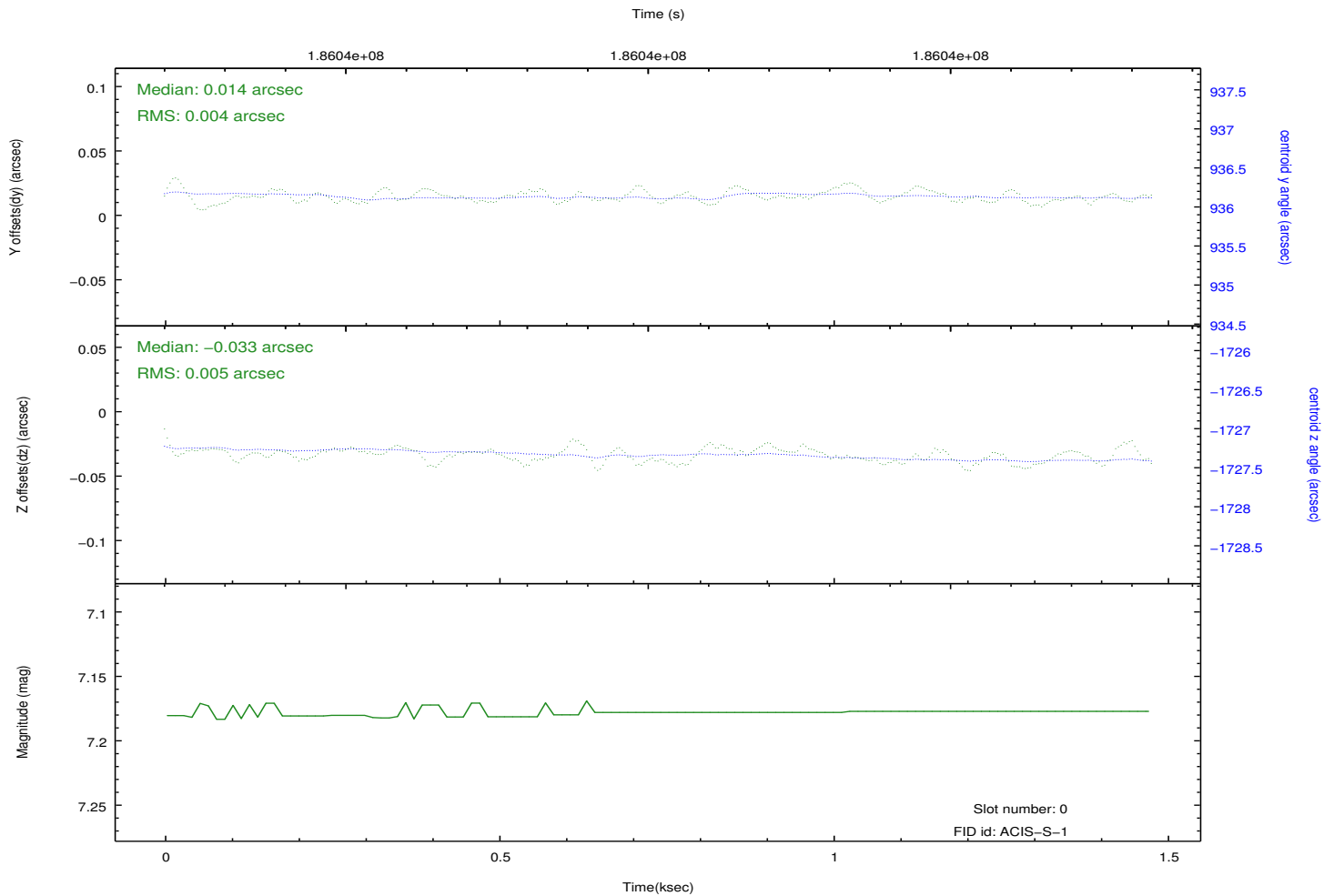
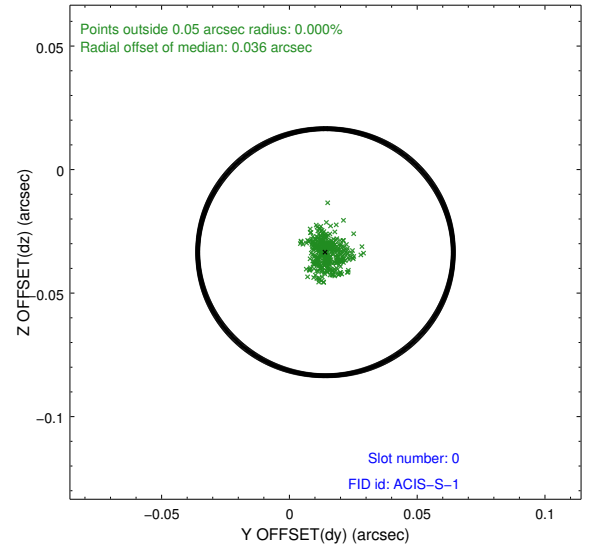
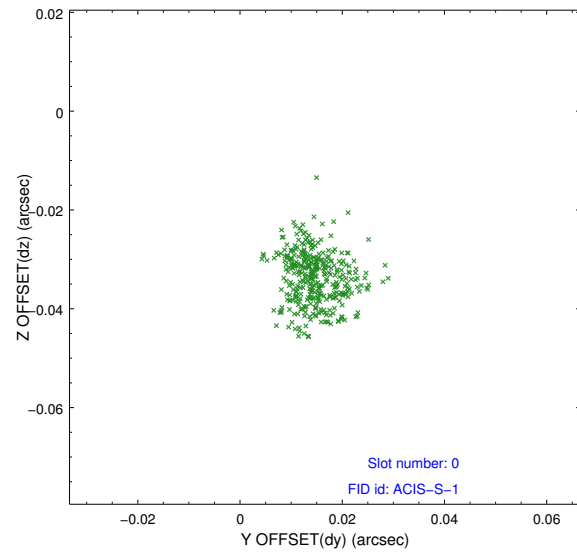


2.4.5 Slot 7

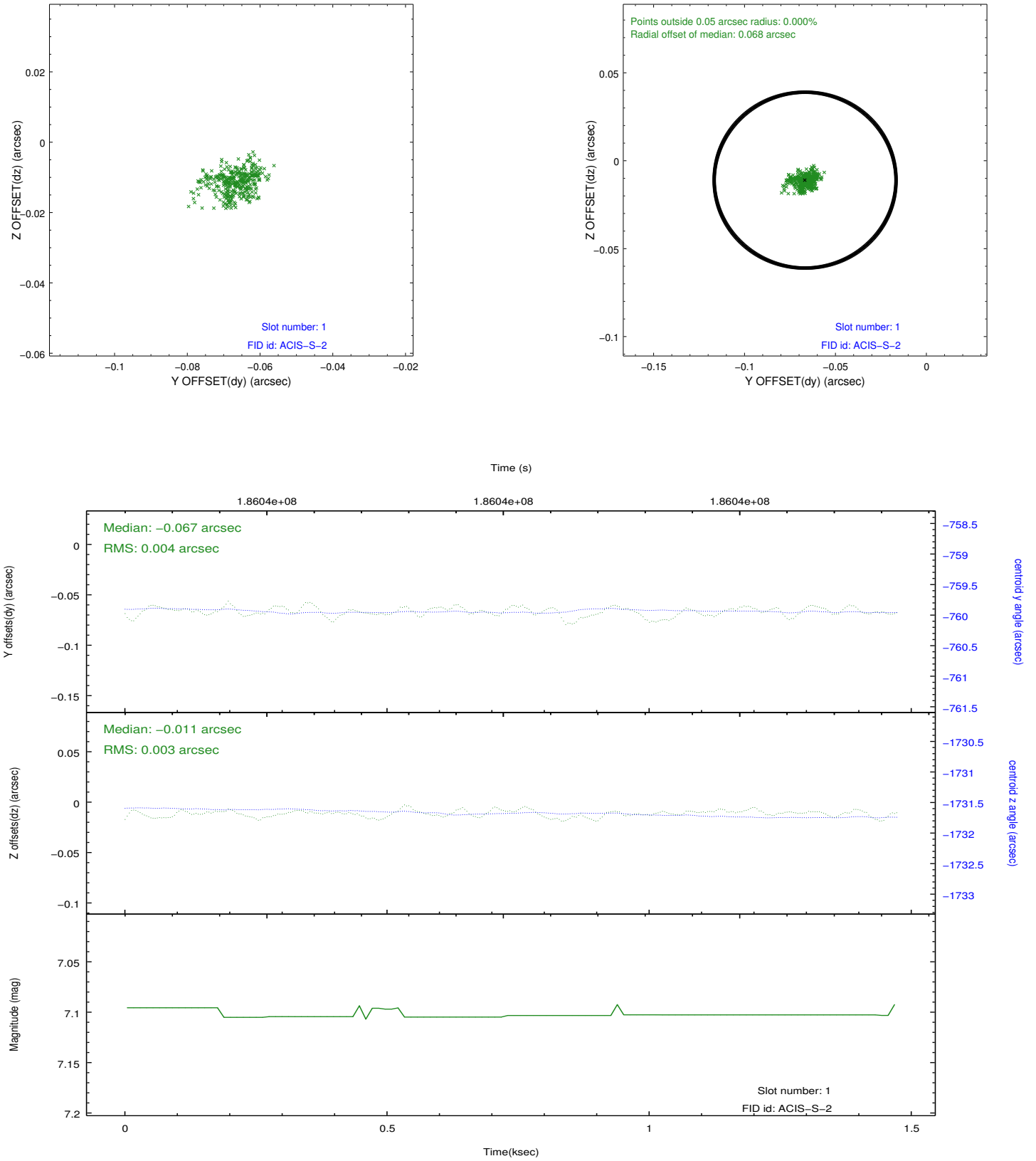


2.5 FID Slots

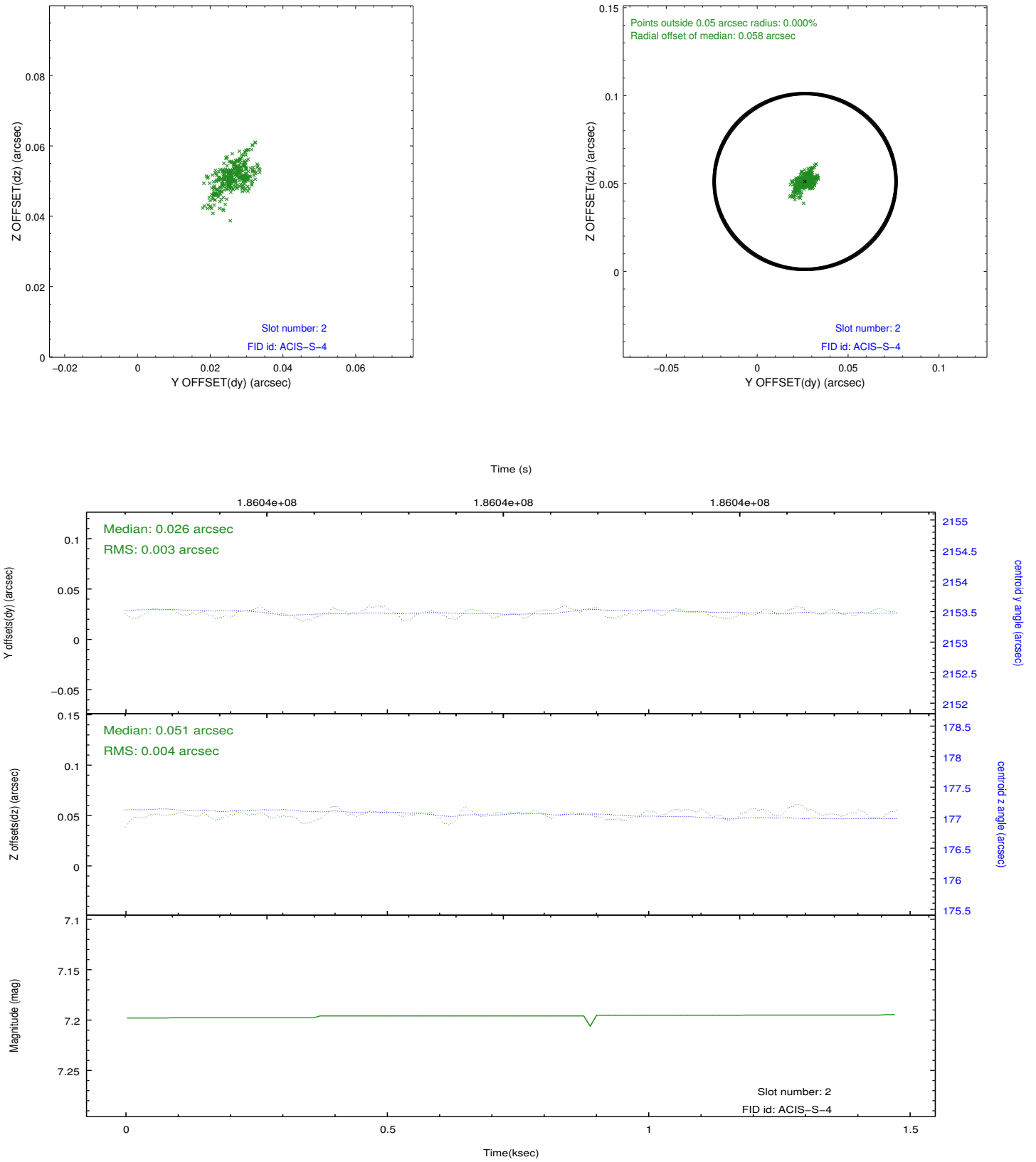
2.5.1 Slot 0



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

Window constraint met. 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.