

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12612 - L2 Version 2
Chandra X-Ray Center

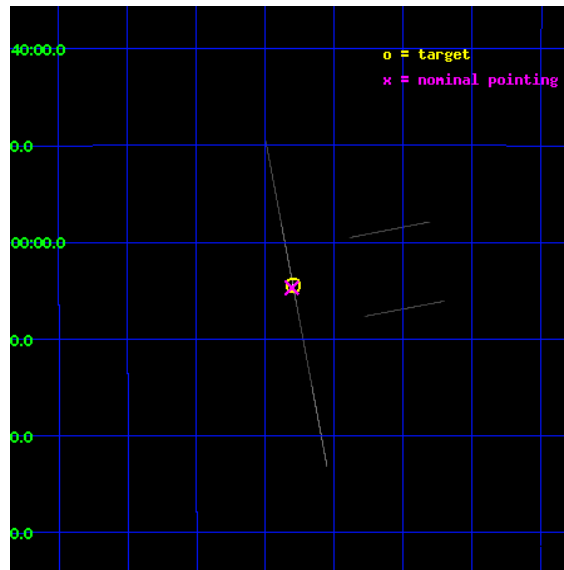
L2 Processing Date : Feb 18 2012

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1 Front

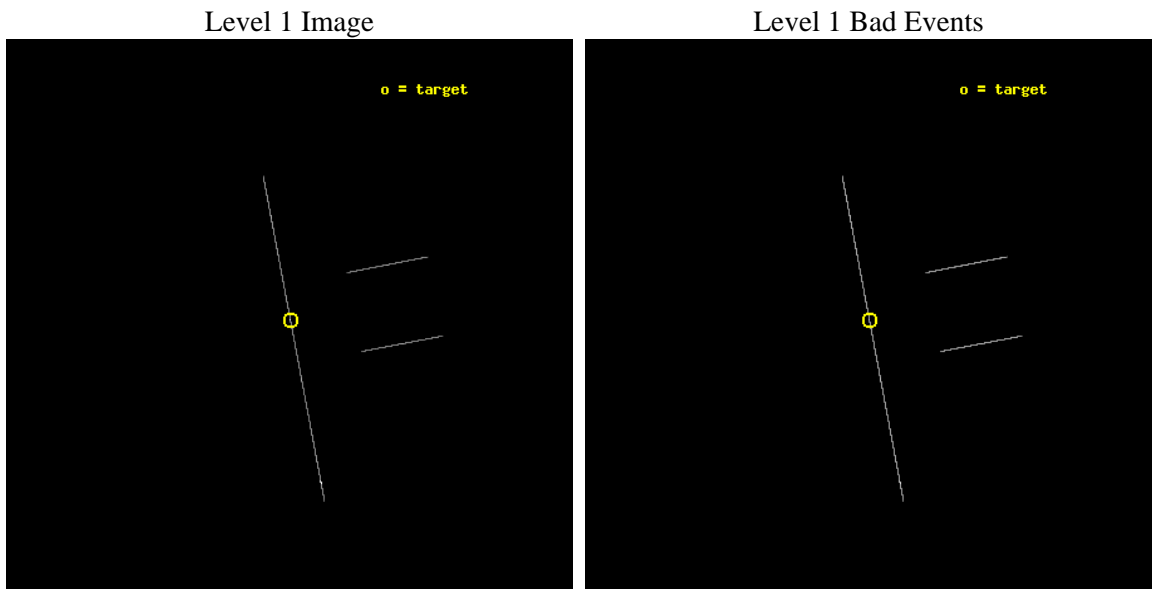
seq_num	501445	Sequence number
obs_id	12612	Observation id
title	TINY HICCUPS TO TITANIC EXPLOSIONS: Tackling Transients in Anomalous X-ray Pulsars	Proposal title
observer	Professor Victoria Kaspi	Principal investigator
object	SWIFT J1822.3-1606	Source name
ra_targ	275.575	Observer's specified target RA [deg]
dec_targ	-16.074111	Observer's specified target Dec [deg]
ra_nom	275.57679475383	Nominal RA [deg]
dec_nom	-16.078664894412	Nominal Dec [deg]
roll_nom	259.17826640763	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15078.0	Sum of GTIs [s]
livetime	15019.1015625	Livetime [s]
ontime2	15078.0	Sum of GTIs [s]
ontime3	15078.0	Sum of GTIs [s]
ontime5	15078.0	Sum of GTIs [s]
ontime6	15078.0	Sum of GTIs [s]
ontime7	15078.0	Sum of GTIs [s]
ontime8	15078.0	Sum of GTIs [s]
l2events	385413	Number of level 2 events



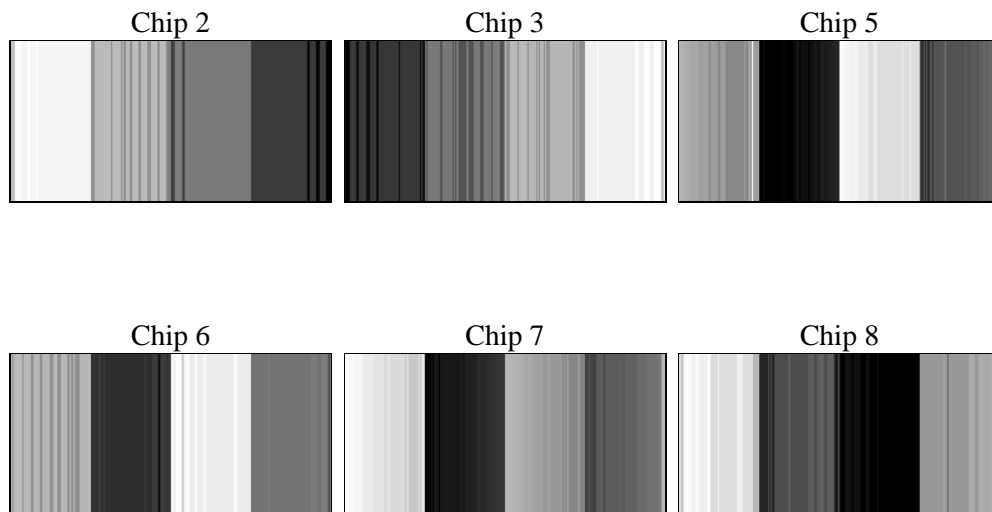
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.026000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	15078.0	Sum of GTIs [s]
caldsver	4.4.8	 	ontime2	15078.0	Sum of GTIs [s]
date	2012-02-18T17:54:03	Date and time of file creation	ontime3	15078.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	15078.0	Sum of GTIs [s]
			ontime6	15078.0	Sum of GTIs [s]
			ontime7	15078.0	Sum of GTIs [s]
			ontime8	15078.0	Sum of GTIs [s]
			l1events	1720399	Number of level 1 events

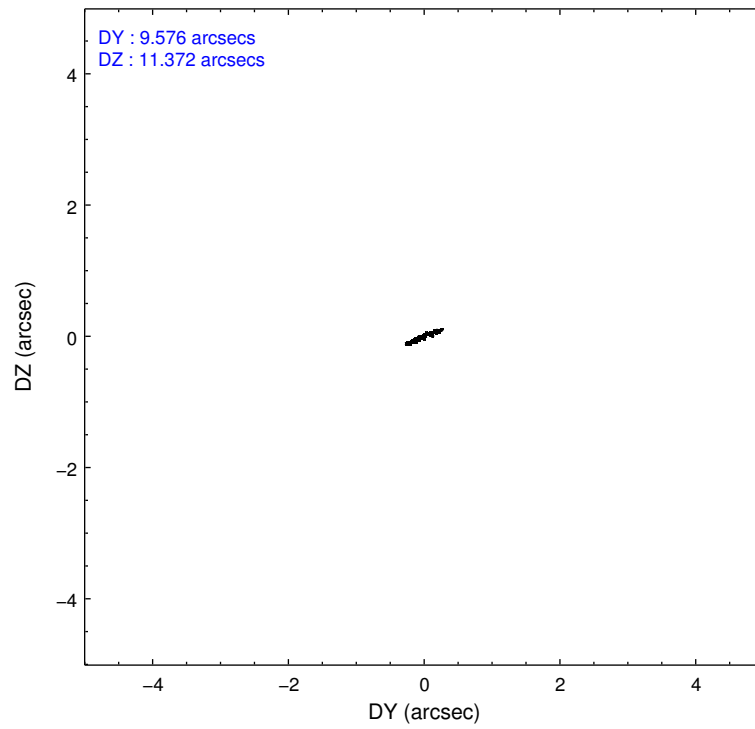
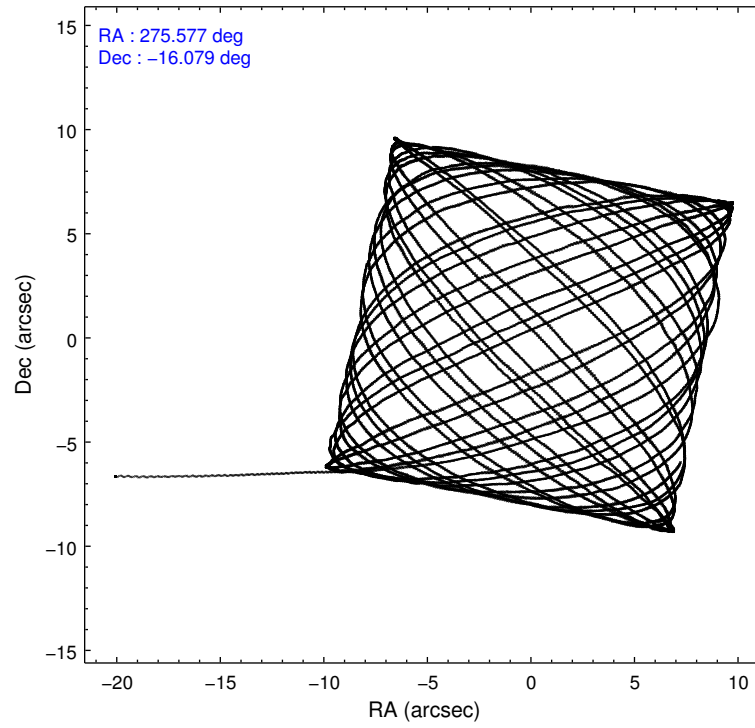
2.1.4 Events

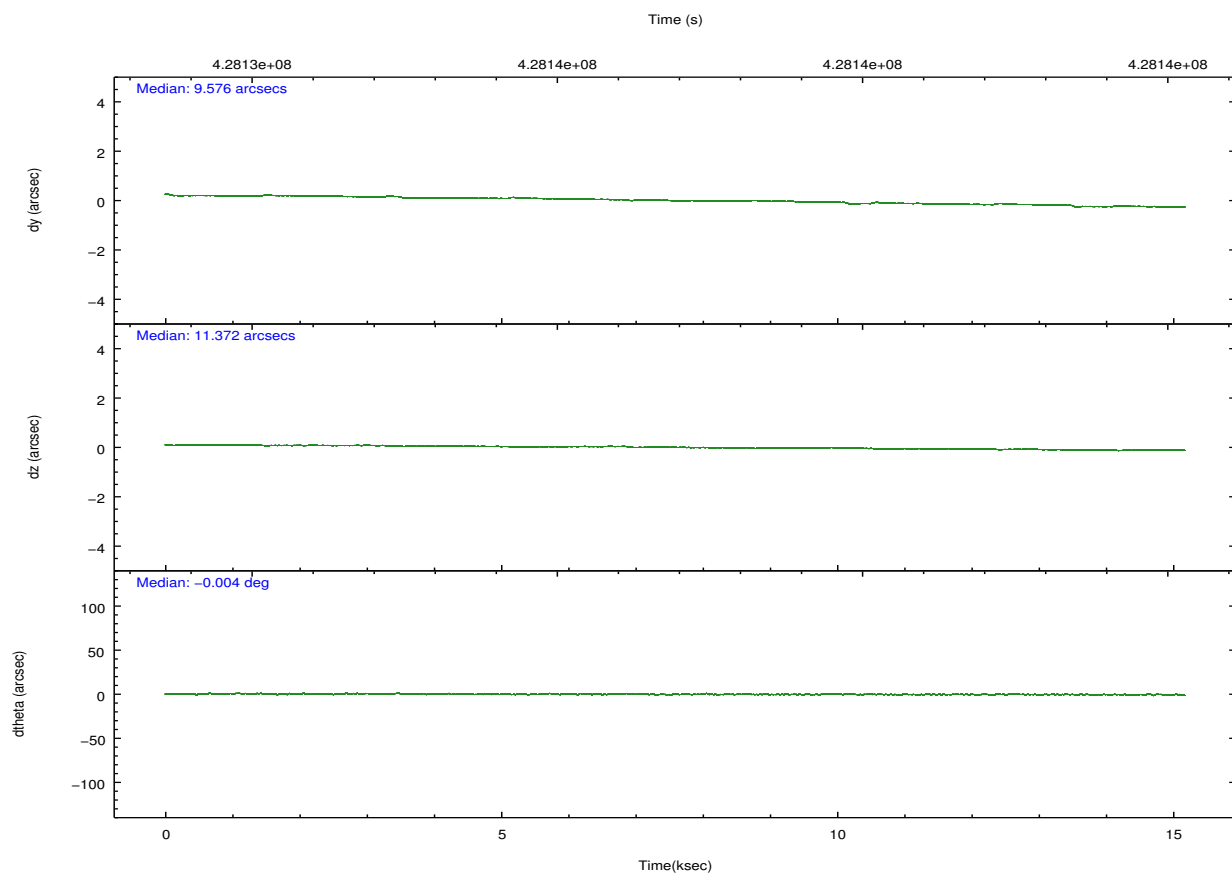
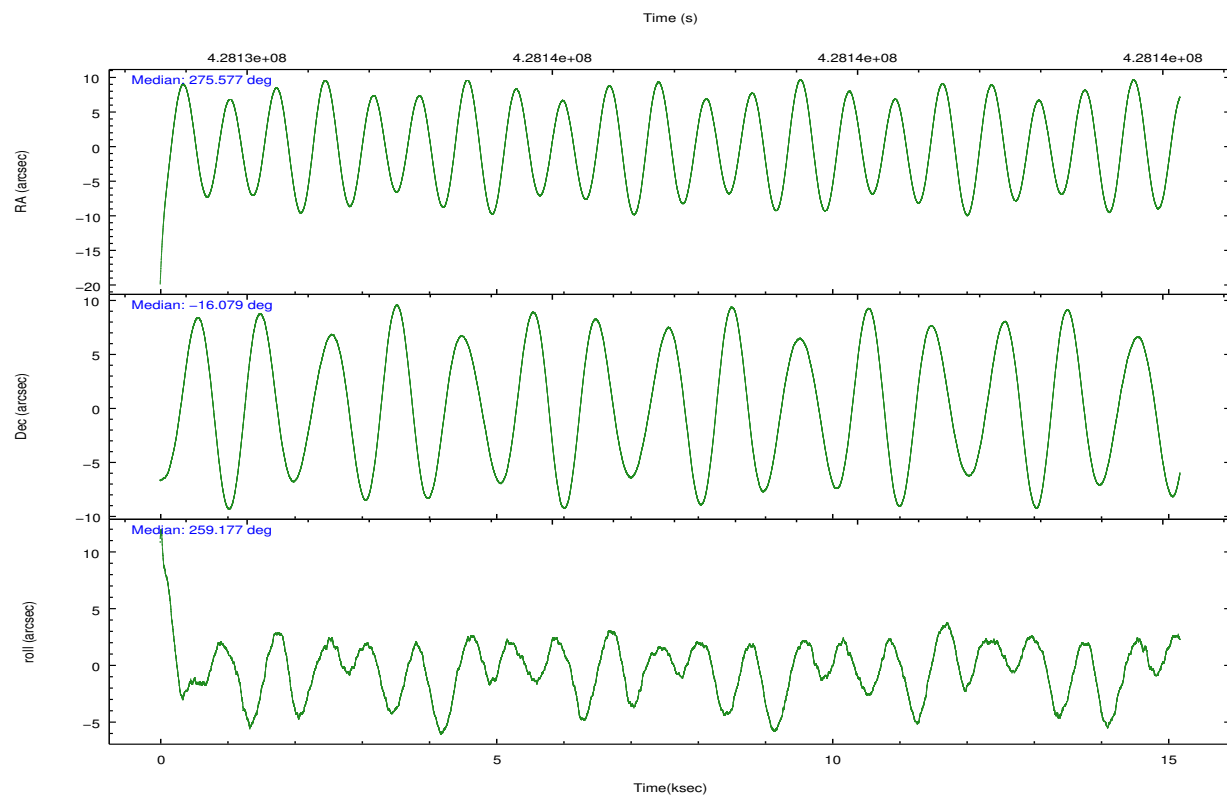
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	180623	167446	557084	167454	384262	263530	grade 0 events	2739	2324	163675	2125	49655	8777
rejected events	162610	149723	175346	148579	135644	220224		1%	1%	29%	1%	12%	3%
rejected %	90%	89%	31%	88%	35%	83%	grade 1 events	88	105	273	62	1068	199
								0%	0%	0%	0%	0%	0%
							grade 2 events	7465	6725	167466	7741	69311	13773
								4%	4%	30%	4%	18%	5%
							grade 3 events	2112	2462	2150	2294	23843	4421
								1%	1%	0%	1%	6%	1%
							grade 4 events	2036	2068	2062	2184	23574	4200
								1%	1%	0%	1%	6%	1%
							grade 5 events	4391	4874	11509	4926	16690	7040
								2%	2%	2%	2%	4%	2%
							grade 6 events	3664	4149	46496	4534	82289	12139
								2%	2%	8%	2%	21%	4%
							grade 7 events	158128	144739	163453	143588	117832	212981
								87%	86%	29%	85%	30%	80%

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	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	275.567082	275.5767947538293	CCD I2 on	O2	Y
[deg] Pointing Dec	-16.052943	-16.07866489441153	CCD I3 on	O3	Y
[deg] Pointing Roll	259.018943	259.178266407626	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	428129511.184000	428127916.40439	CCD S5 on	N	N
Observation start date	2011-07-27T04:50:45	2011-07-27T04:25:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	428144511.184000	428144737.16777	On-chip summing requested	N	N
Observation end date	2011-07-27T09:00:45	2011-07-27T09:05:37	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



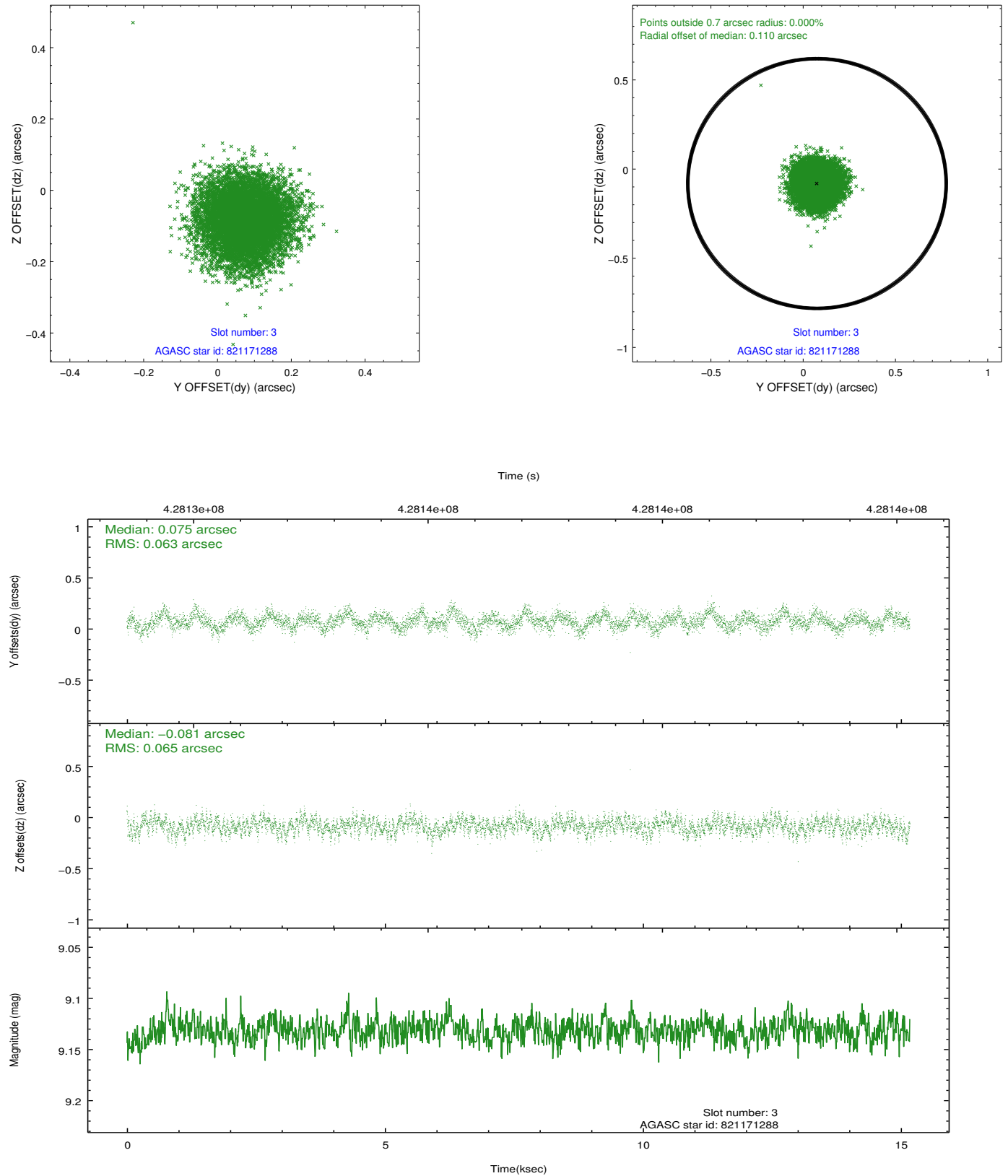


Slot Statistics

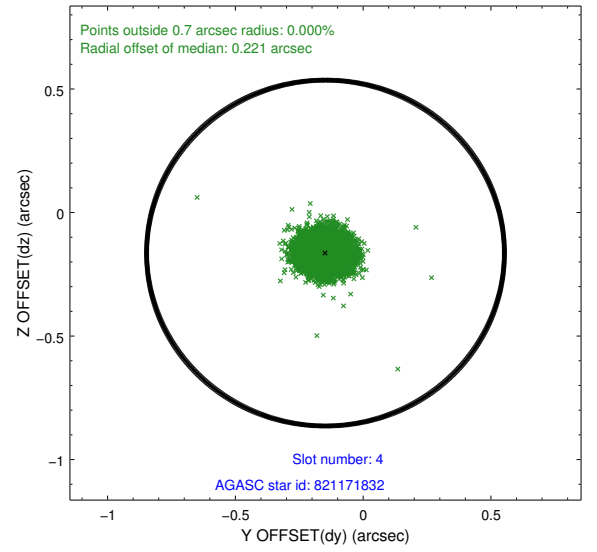
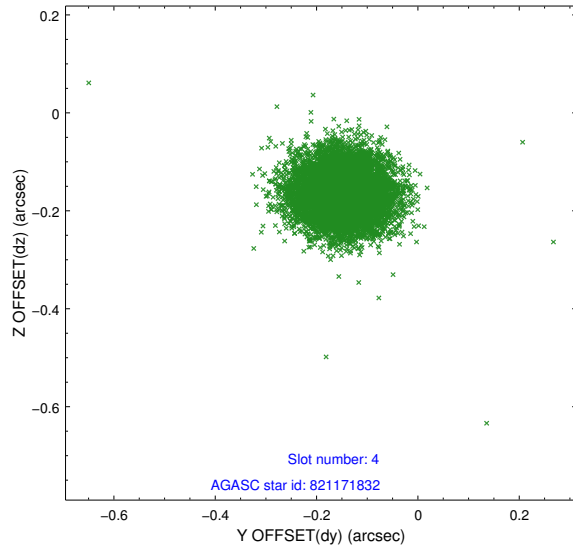
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.04	3702	-0.074	-0.053	0.007	0.012	0.000000	0.000000	-762.47	-1732.70
1	FID	ACIS-S-4	7.13	3702	0.267	0.050	0.006	0.011	0.000000	0.000000	2151.01	175.57
2	FID	ACIS-S-5	7.16	3701	-0.224	0.012	0.007	0.011	0.000000	0.000000	-1815.08	169.55
3	GUIDE	821171288	9.13	7399	0.075	-0.081	0.098	0.154	275.426002	-15.652858	-1320.15	-754.38
4	GUIDE	821171832	8.86	7400	-0.147	-0.164	0.070	0.113	275.792275	-15.610164	-1713.10	462.83
5	GUIDE	821175360	8.52	7403	-0.053	0.233	0.070	0.114	275.121622	-15.398191	-2017.76	-1966.13
6	GUIDE	821180448	7.18	7404	0.077	0.004	0.057	0.092	275.453560	-16.324585	1035.00	-198.80
7	GUIDE	821169272	7.19	7402	0.052	0.006	0.044	0.073	275.312025	-16.375484	1308.81	-643.38

2.4 Star Slots

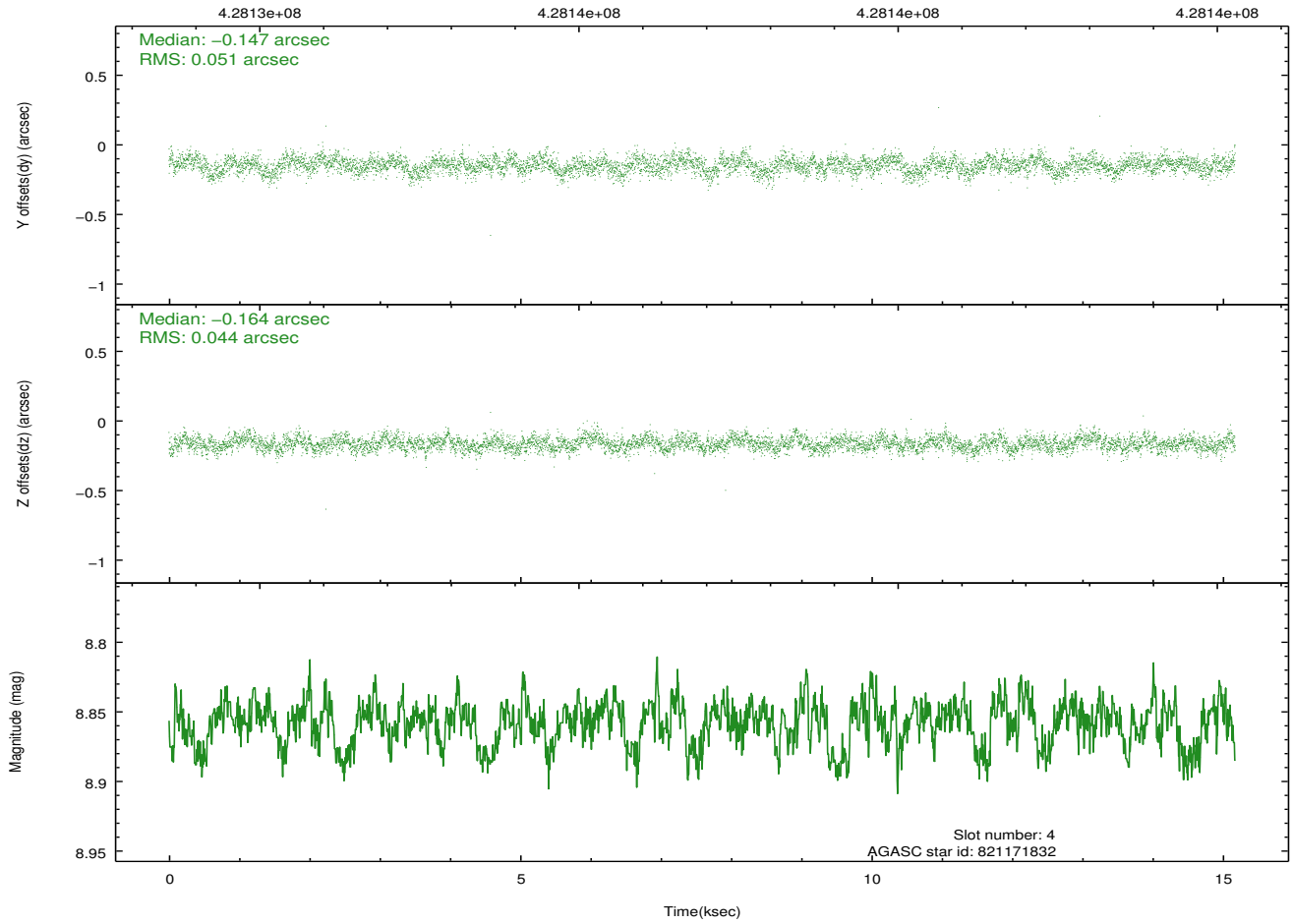
2.4.1 Slot 3



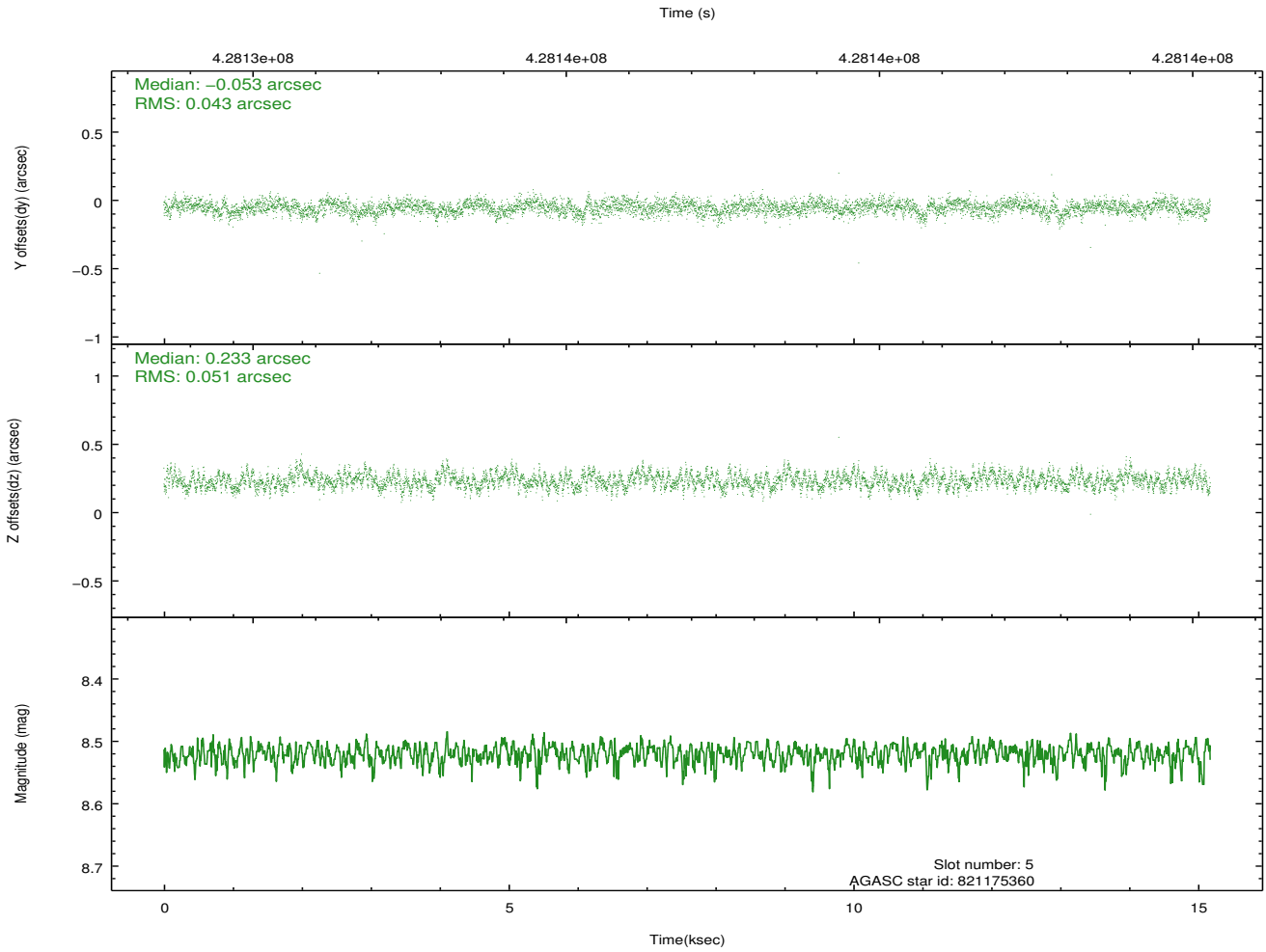
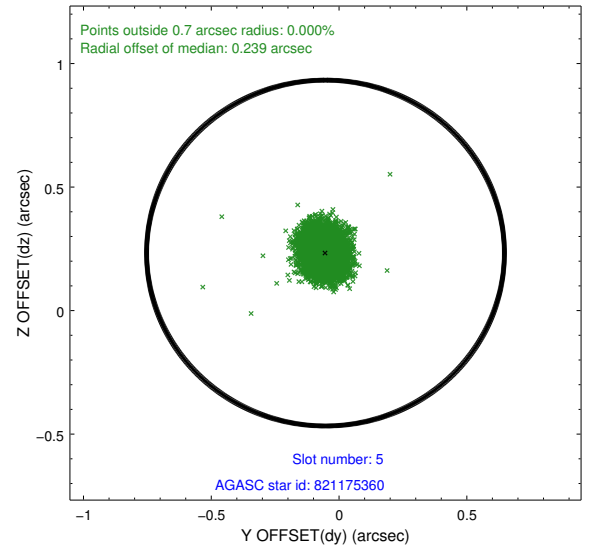
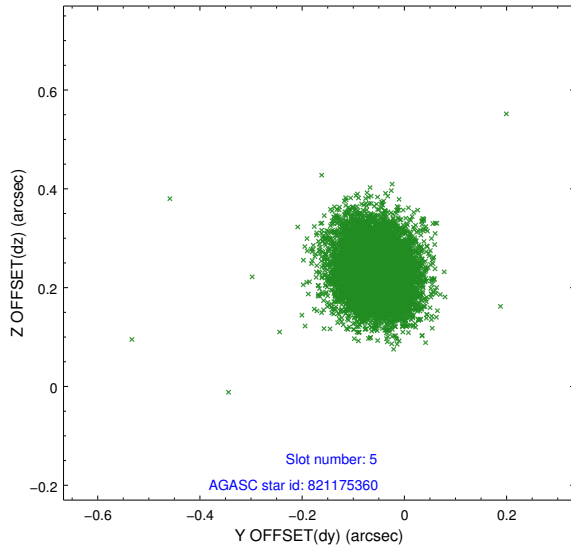
2.4.2 Slot 4



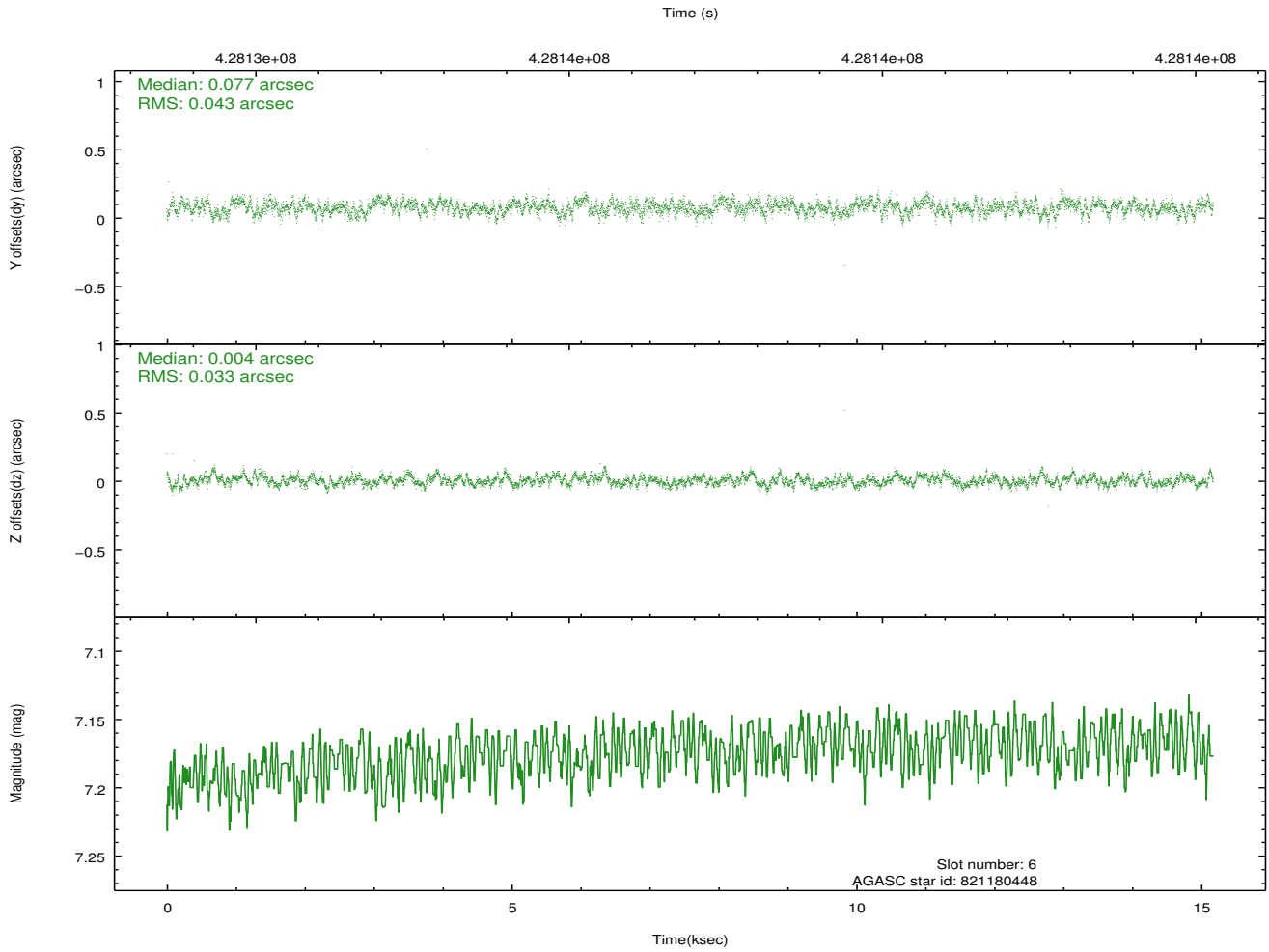
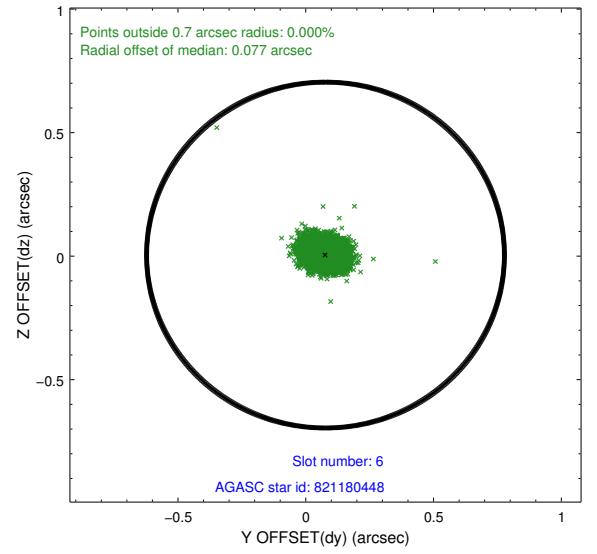
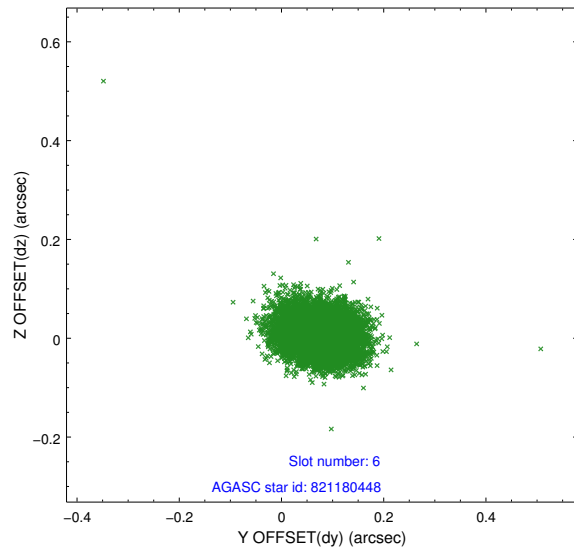
Time (s)



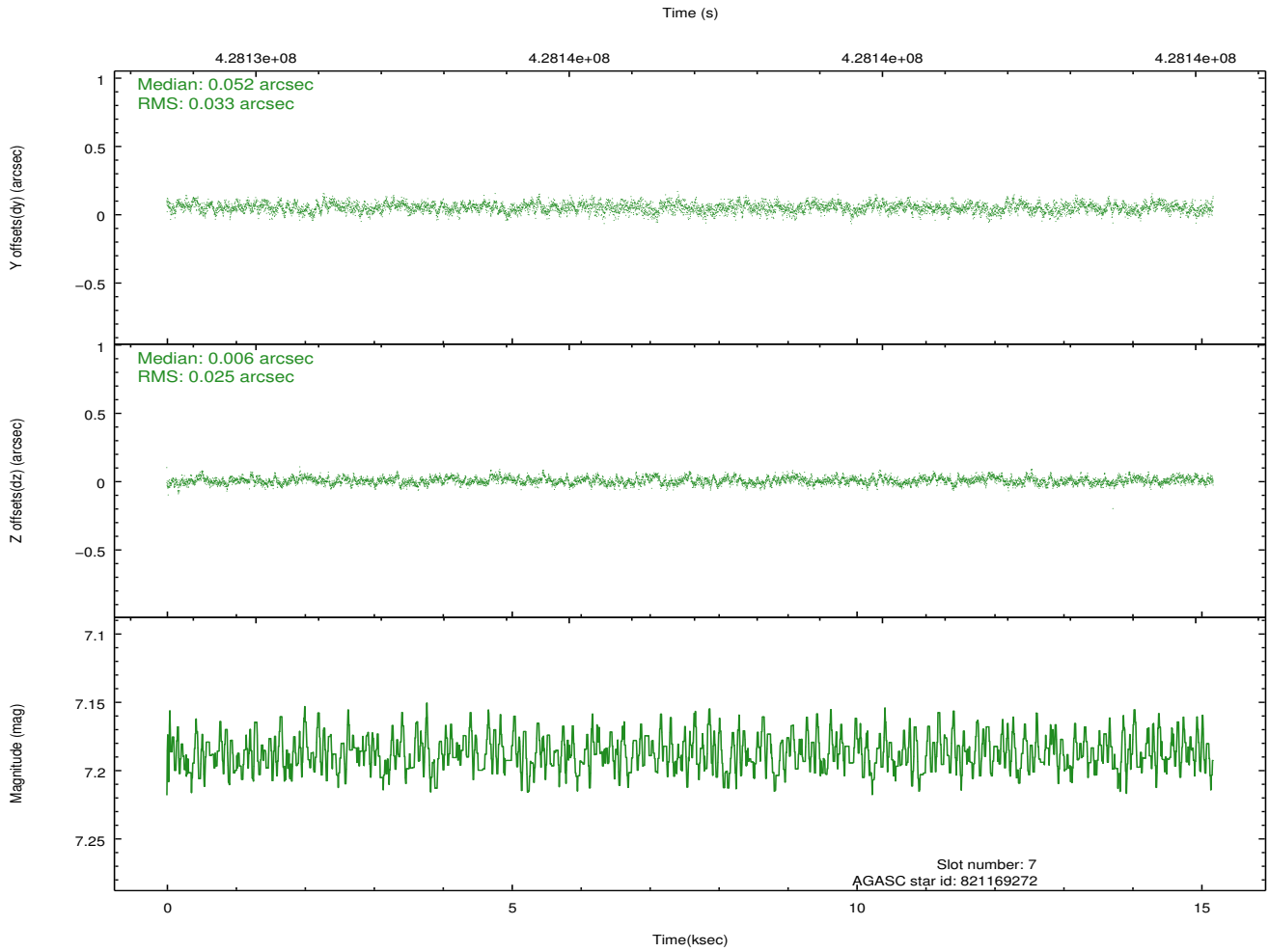
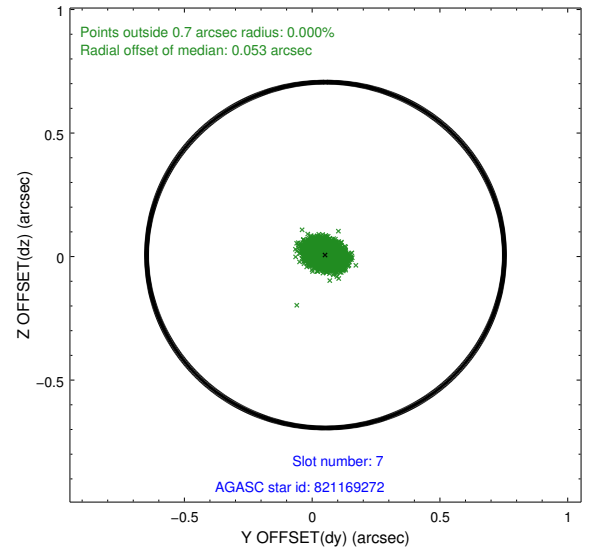
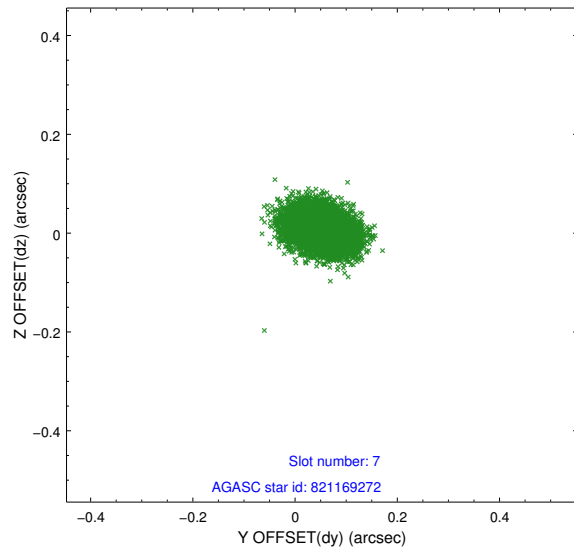
2.4.3 Slot 5



2.4.4 Slot 6

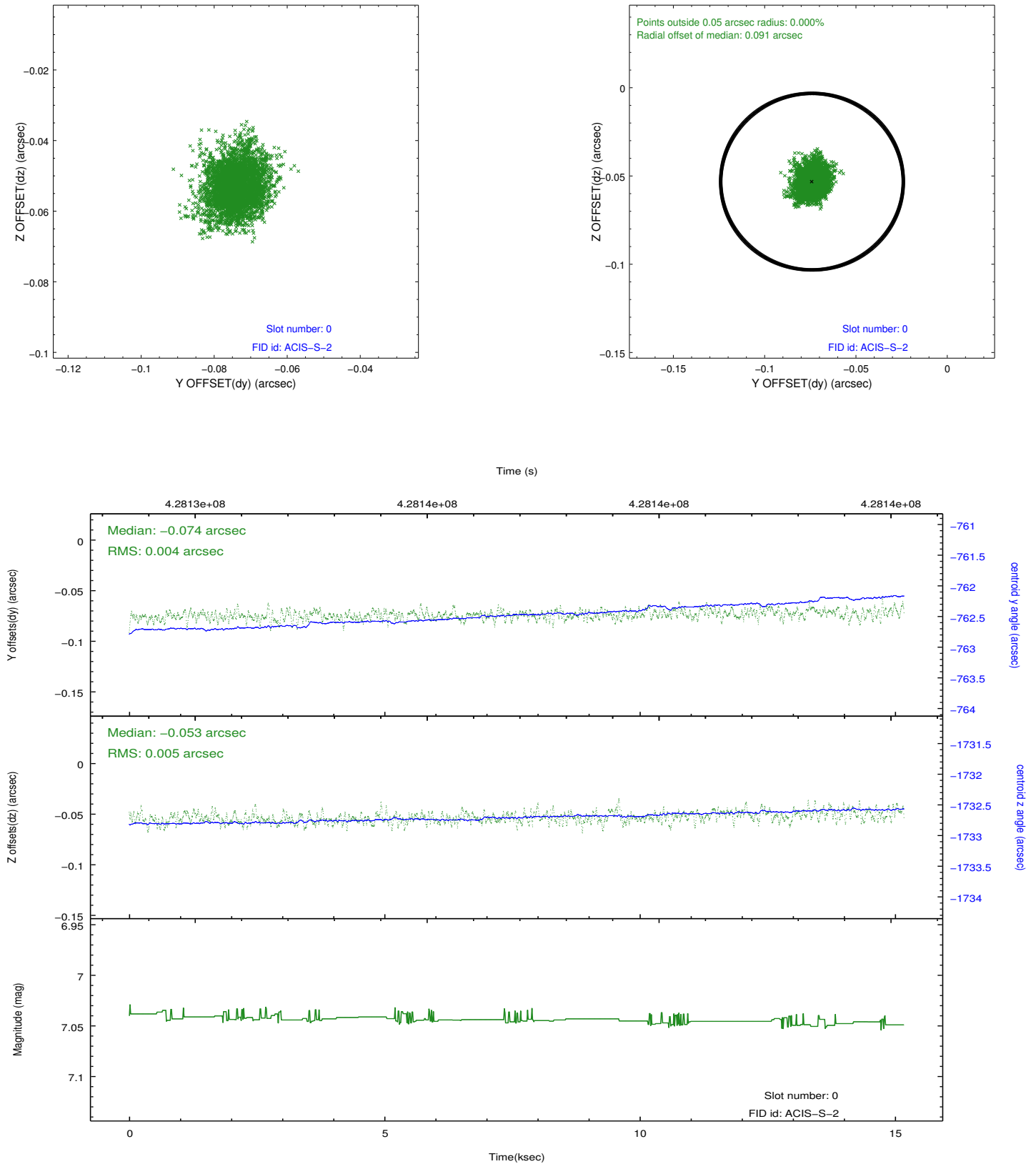


2.4.5 Slot 7

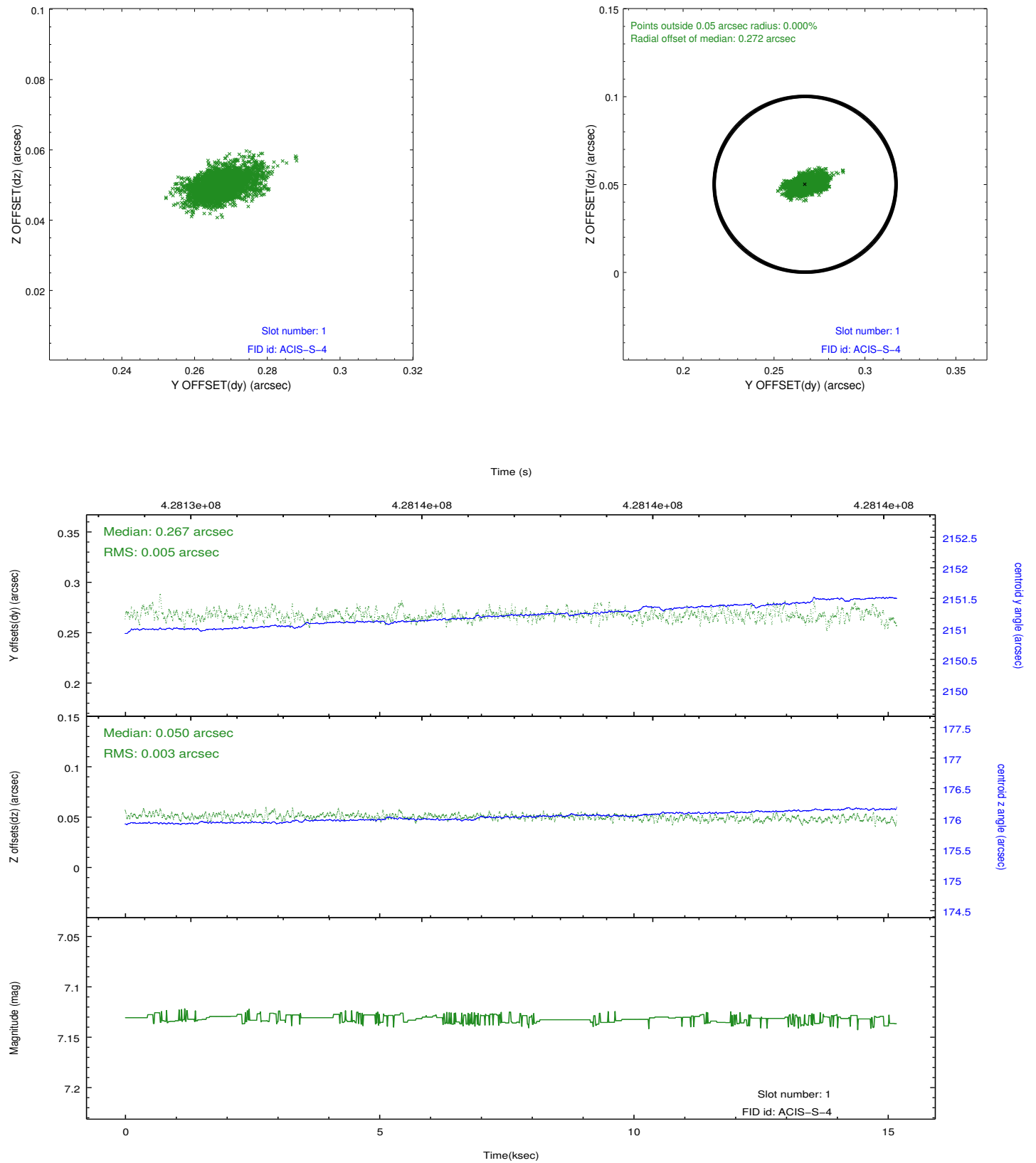


2.5 FID Slots

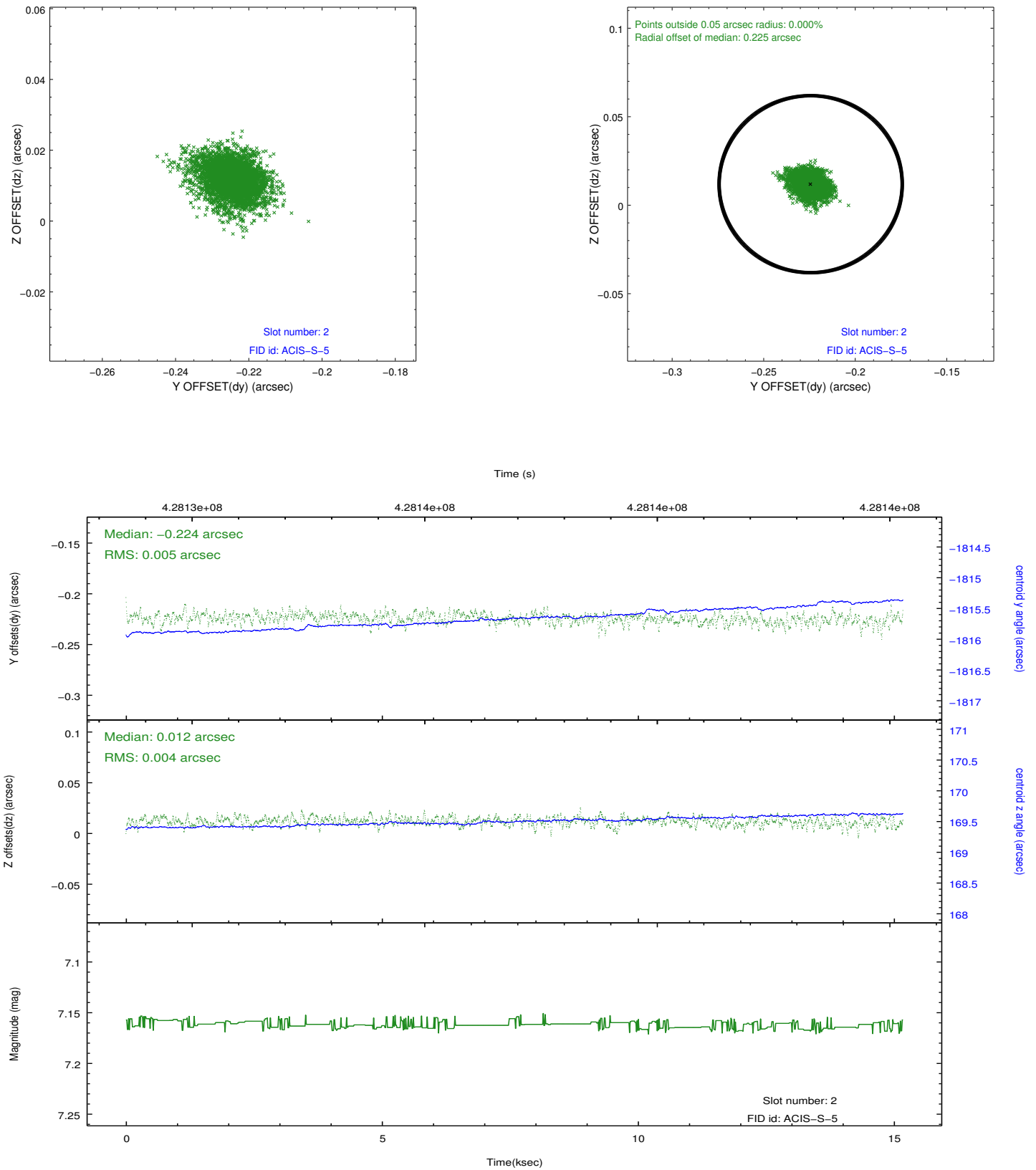
2.5.1 Slot 0



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)	2012.02.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.078

A.2 Comments