

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18946 - L2 Version 1
Chandra X-Ray Center

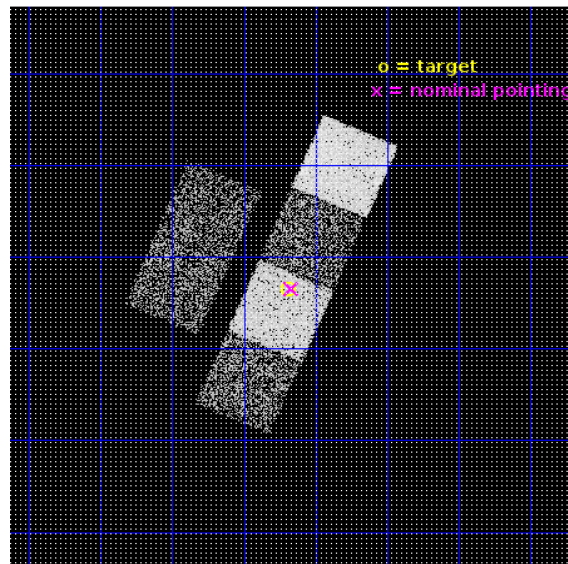
L2 Processing Date : May 6 2017

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1 Front

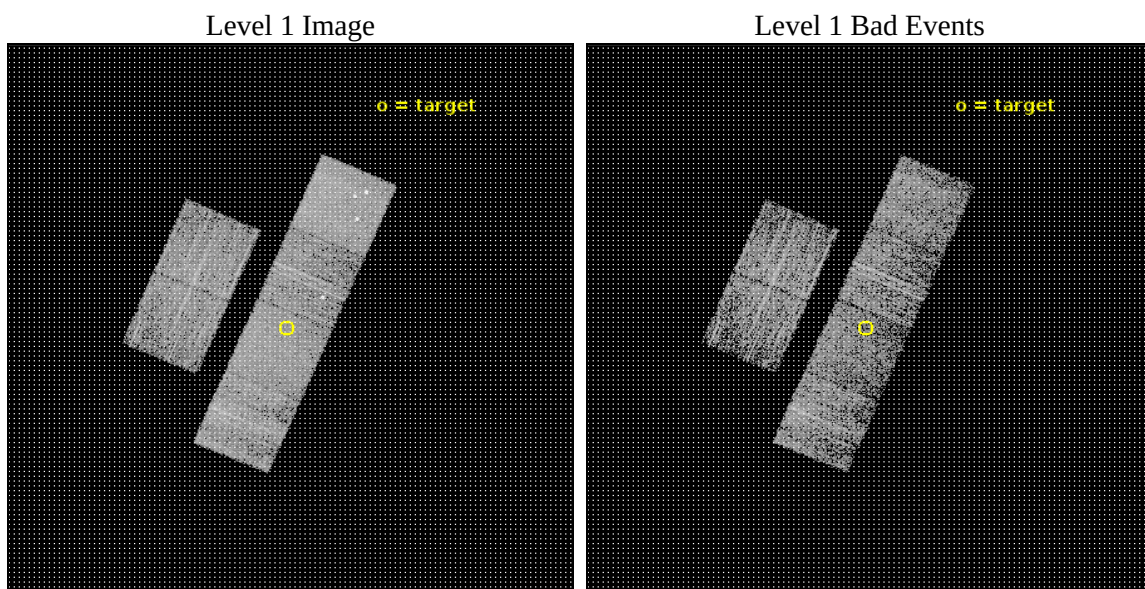
seq_num	201139	Sequence number
obs_id	18946	Observation id
title	Probing the Dynamo Mechanism in Fully Convective Stars	Proposal ti
observer	Nicholas Wright	Principal investigator
object	2MASS J23351050-0223214	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	353.7975	Observer's specified target RA [deg]
dec_targ	-2.393139	Observer's specified target Dec [deg]
ra_nom	353.79193762547	Nominal RA [deg]
dec_nom	-2.3912952975035	Nominal Dec [deg]
roll_nom	113.21818410894	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2952.419652462	Sum of GTIs [s]
livetime	2915.0343370888	Livetime [s]
ontime2	2952.4606924057	Sum of GTIs [s]
ontime3	2952.2965323925	Sum of GTIs [s]
ontime5	2952.3786123991	Sum of GTIs [s]
ontime6	2952.3375724554	Sum of GTIs [s]
ontime7	2952.419652462	Sum of GTIs [s]
ontime8	2949.0144321918	Sum of GTIs [s]
l2events	33889	Number of level 2 events



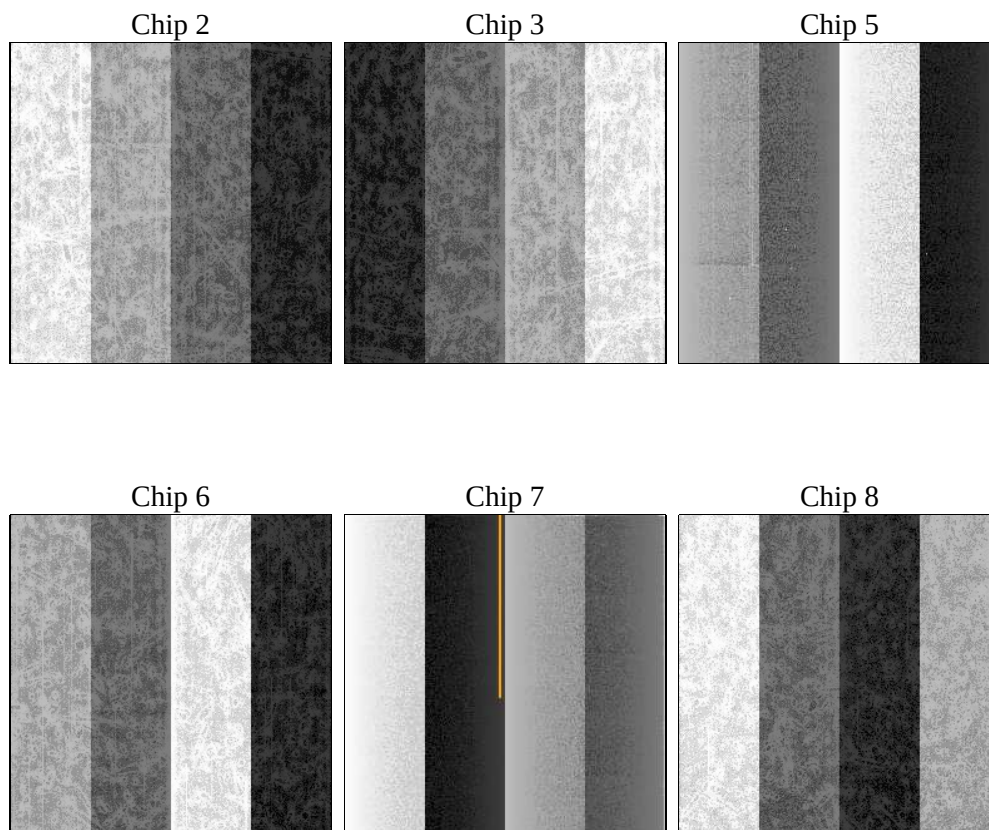
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	2952.419652462	Sum of GTIs [s]
caldsver	4.7.4	 	ontime2	2952.4606924057	Sum of GTIs [s]
date	2017-05-06T14:11:56	Date and time of file creation	ontime3	2952.2965323925	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	2952.3786123991	Sum of GTIs [s]
			ontime6	2952.3375724554	Sum of GTIs [s]
			ontime7	2952.419652462	Sum of GTIs [s]
			ontime8	2949.0144321918	Sum of GTIs [s]
			l1events	158234	Number of level 1 events

2.1.4 Events

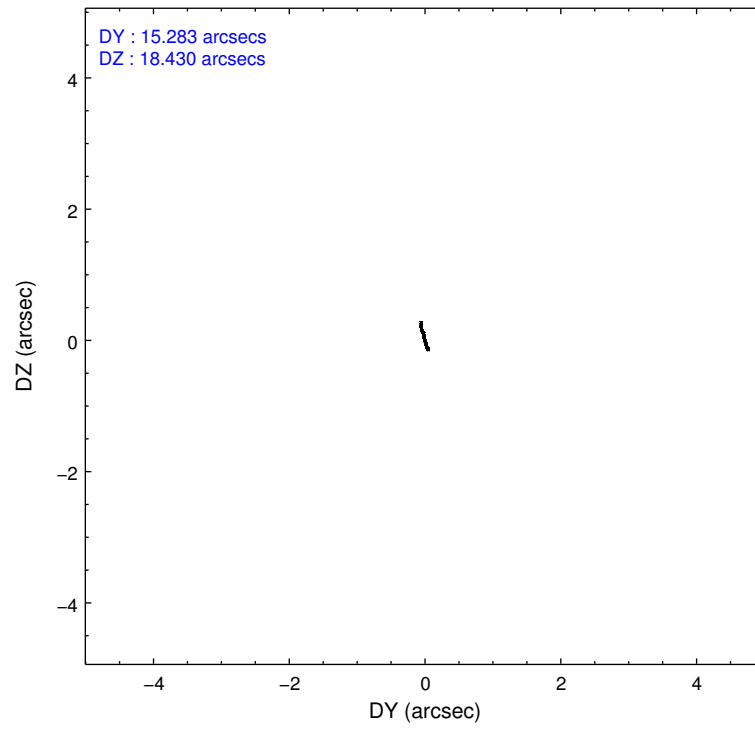
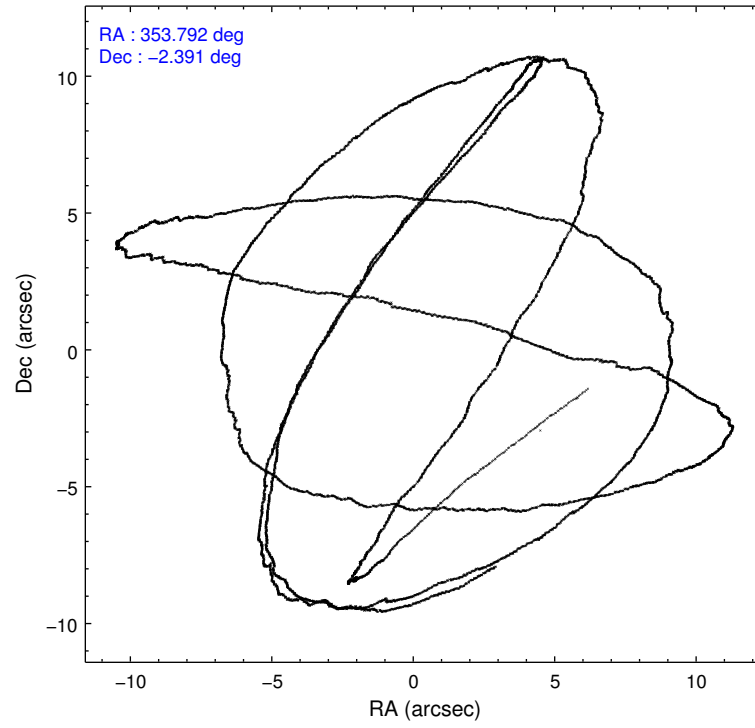
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	23844	21035	35605	23458	26708	27584	grade 0 events	768	723	2603	1546	885	1707
rejected events	21688	18890	17716	20240	15398	20704		3%	3%	7%	6%	3%	6%
rejected %	90%	89%	49%	86%	57%	75%	grade 1 events	9	13	126	16	42	26
								0%	0%	0%	0%	0%	0%
							grade 2 events	547	467	5550	623	2447	1867
								2%	2%	15%	2%	9%	6%
							grade 3 events	217	208	441	218	744	602
								0%	0%	1%	0%	2%	2%
							grade 4 events	203	246	472	207	759	566
								0%	1%	1%	0%	2%	2%
							grade 5 events	824	886	2108	834	2366	1445
								3%	4%	5%	3%	8%	5%
							grade 6 events	422	504	8833	626	6487	2139
								1%	2%	24%	2%	24%	7%
							grade 7 events	20854	17988	15472	19388	12978	19232
								87%	85%	43%	82%	48%	69%

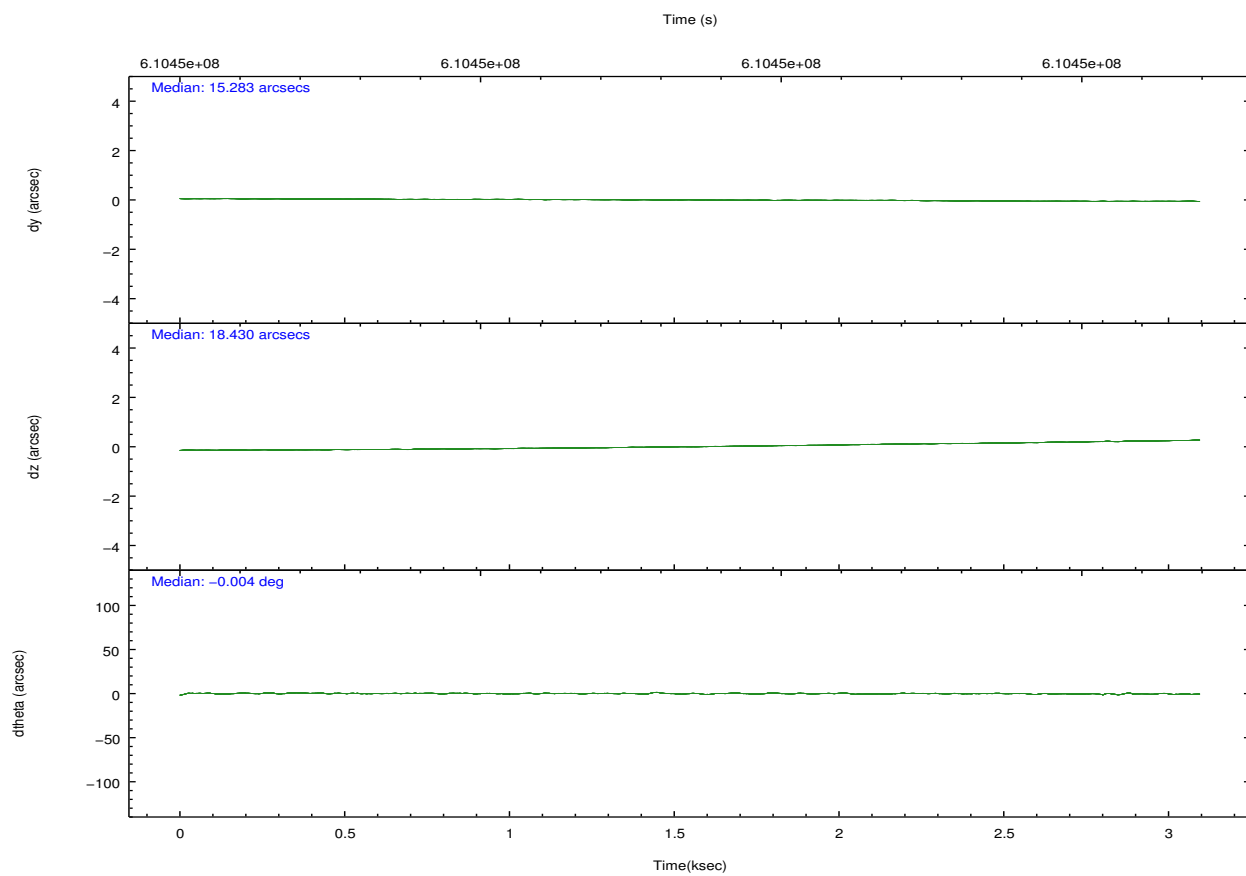
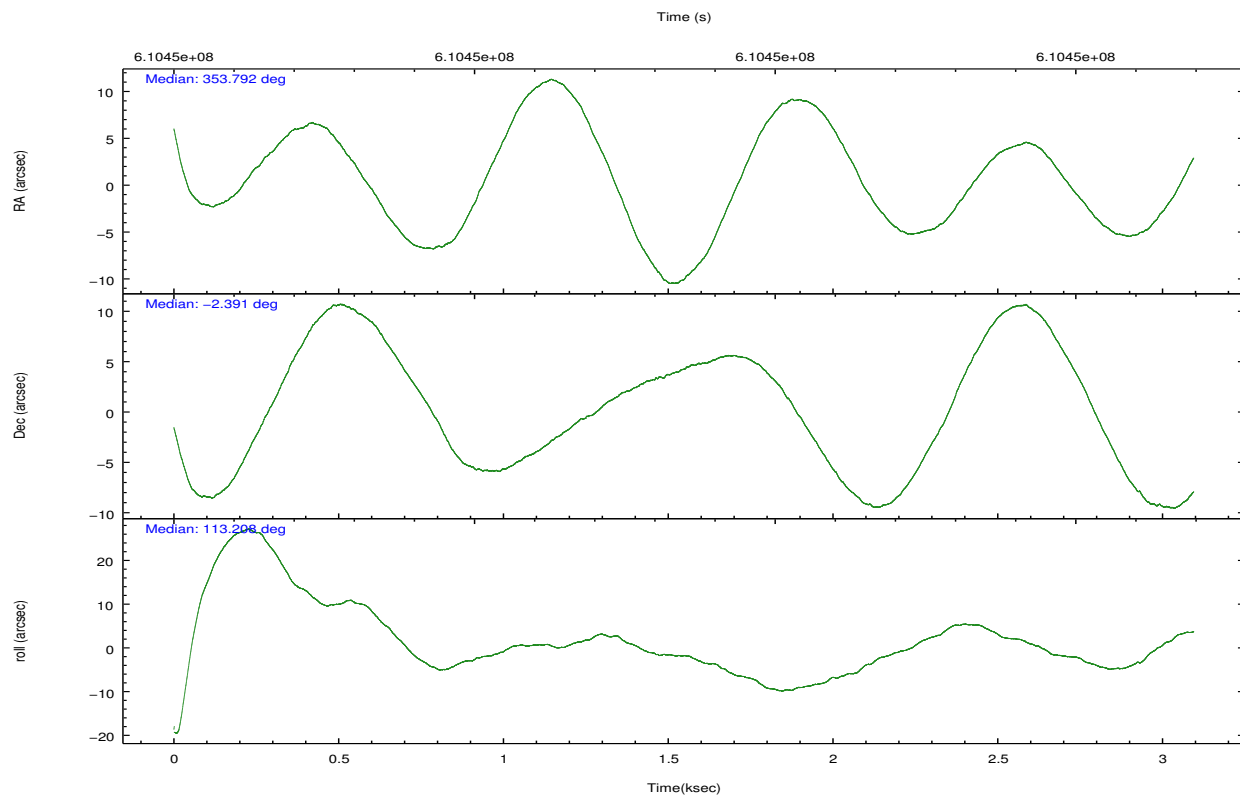
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	353.814186	353.7919376254706
[deg] Pointing Dec	-2.407401	-2.39129529750351
[deg] Pointing Roll	113.062797	113.2181841089386
[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)	610448230.184000	610446959.6664799
Observation start date	2017-05-06T08:56:01	2017-05-06T08:35:59
[s] Observation end time (MET)	610451230.184000	610452383.4543
Observation end date	2017-05-06T09:46:01	2017-05-06T10:06:23
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



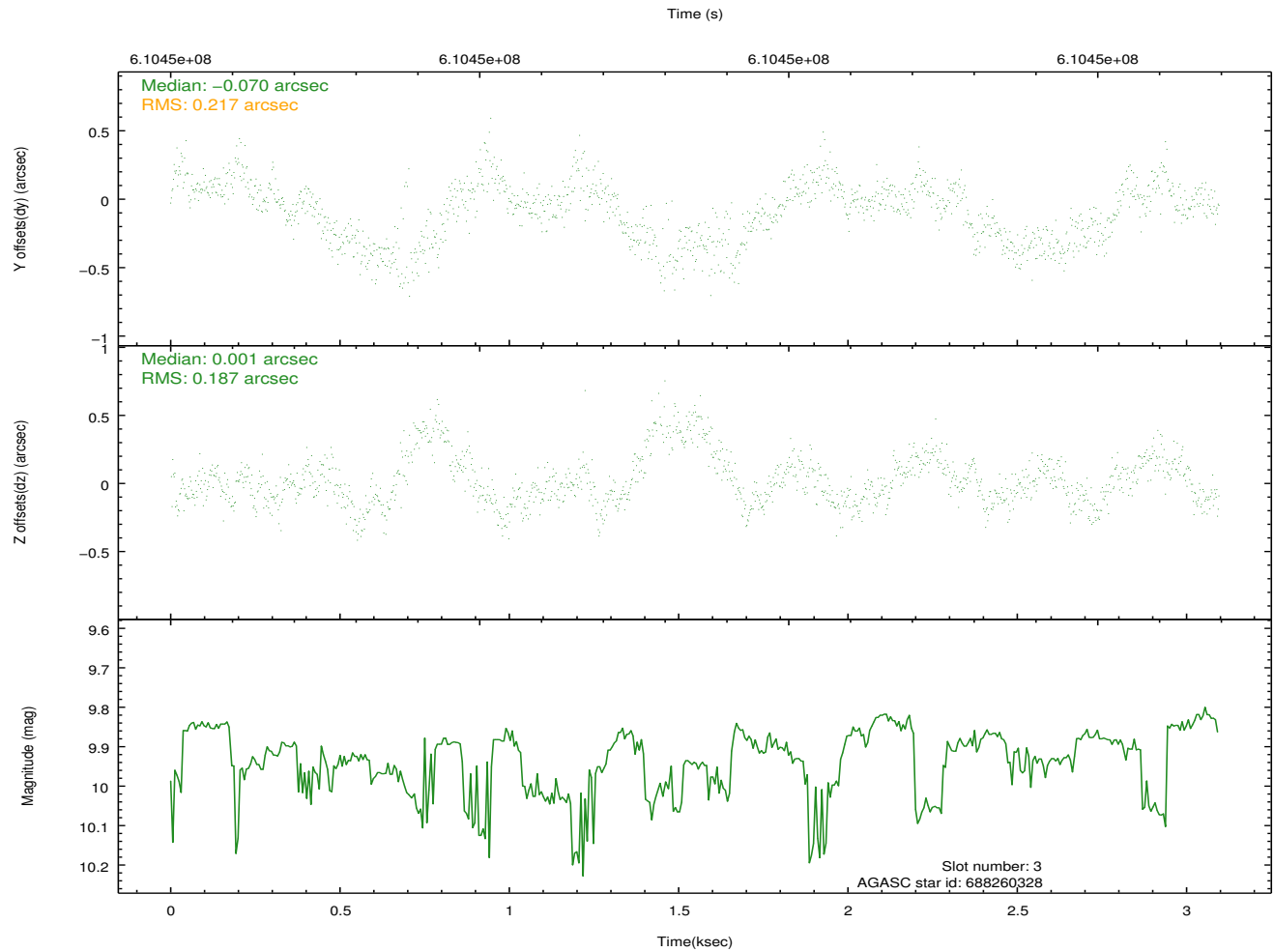
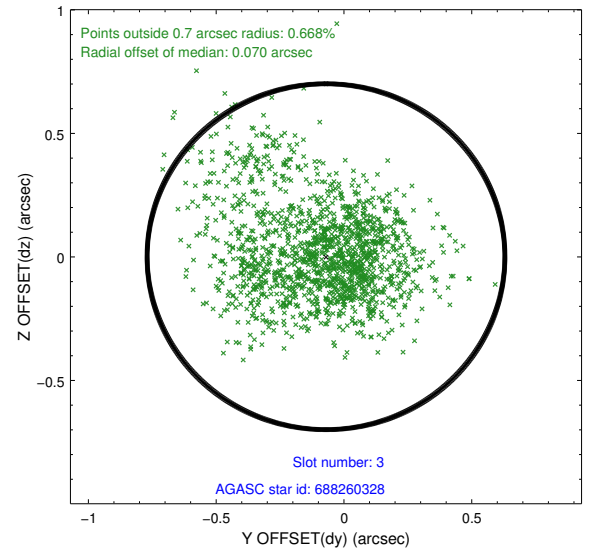
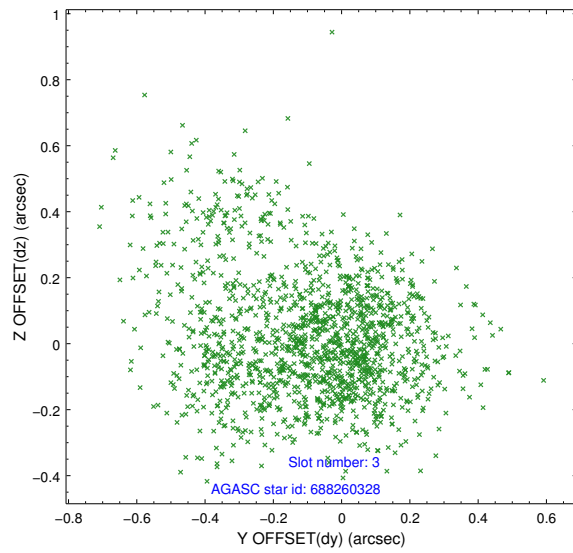


Slot Statistics

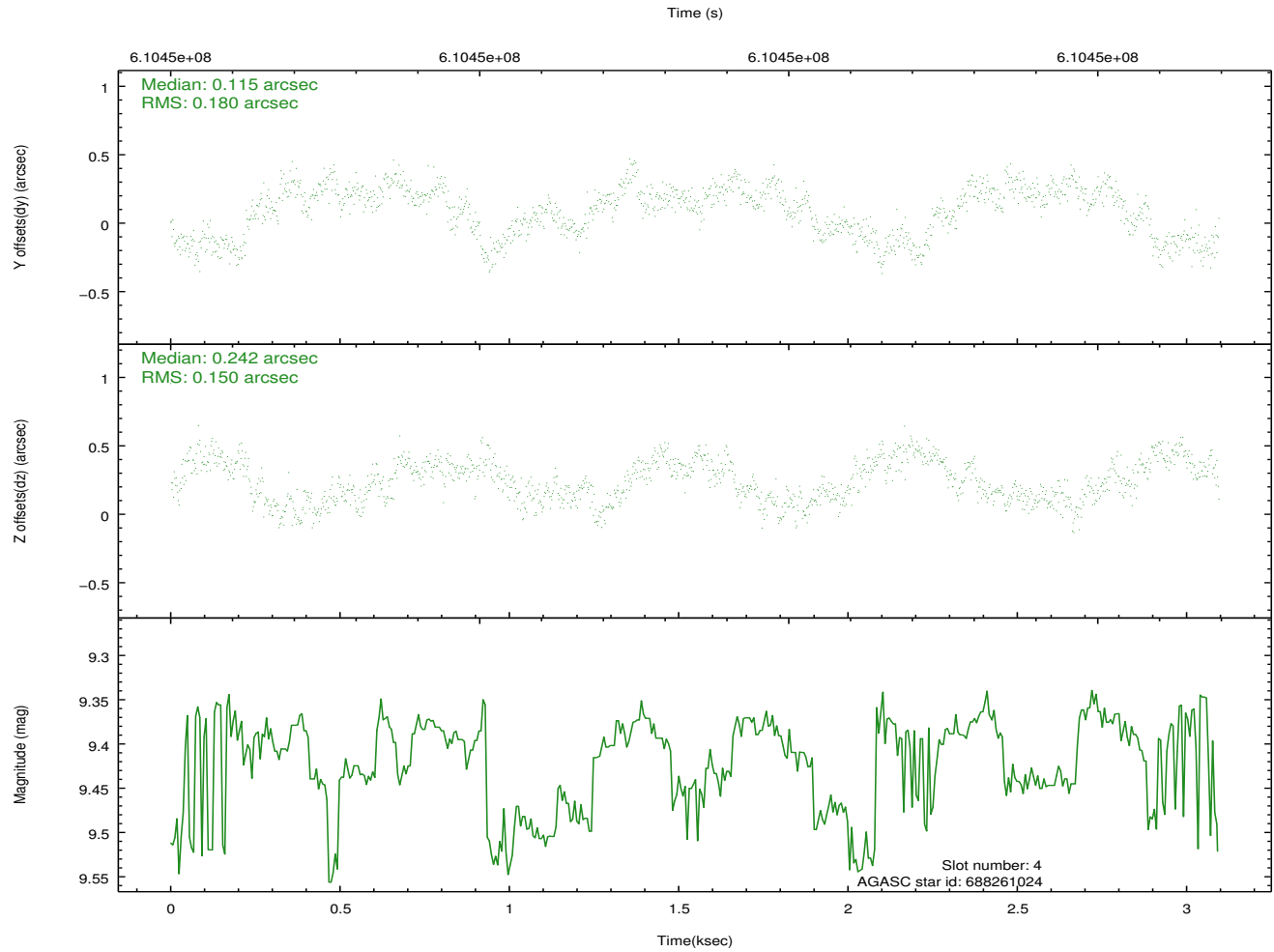
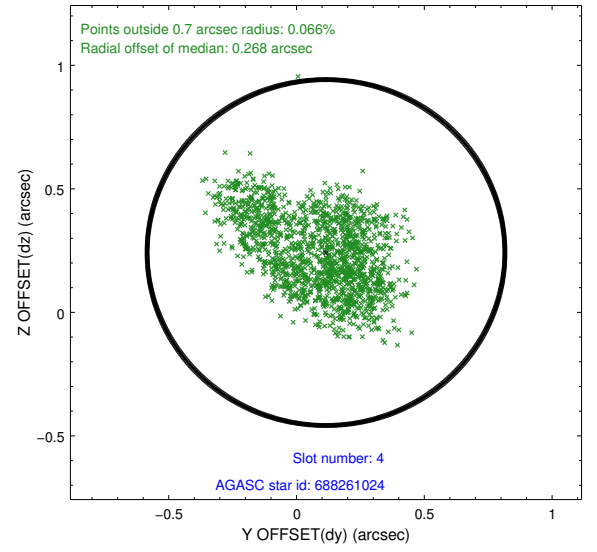
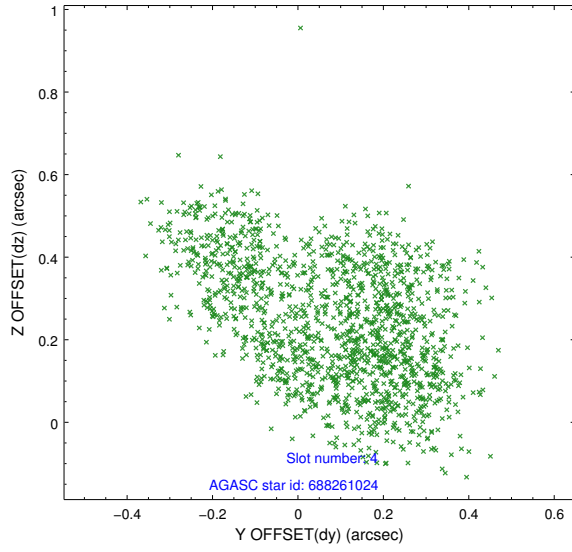
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.14	755	-0.210	-0.161	0.008	0.013	0.000000	0.000000	-768.47	-1740.03
1	FID		ACIS-S-4	7.26	755	0.523	0.144	0.006	0.011	0.000000	0.000000	2144.60	166.60
2	FID		ACIS-S-5	7.25	754	-0.344	0.025	0.007	0.012	0.000000	0.000000	-1818.80	162.52
3	GUIDE	used	688260328	9.92	1497	-0.070	0.001	0.295	0.518	353.634101	-1.904043	1921.29	-113.23
4	GUIDE	used	688261024	9.41	1510	0.115	0.242	0.249	0.404	353.871701	-1.824139	1852.50	-1012.04
5	GUIDE	used	688264160	8.02	1510	-0.311	-0.310	0.191	0.275	353.423034	-2.244543	1091.26	1064.24
6	GUIDE	used	688652544	10.03	1507	-0.101	-0.295	0.283	0.478	353.357169	-2.646664	-148.28	1850.47
7	GUIDE	used	688659024	8.26	1510	0.355	0.369	0.153	0.272	354.190497	-2.961144	-2364.06	-464.86

2.4 Star Slots

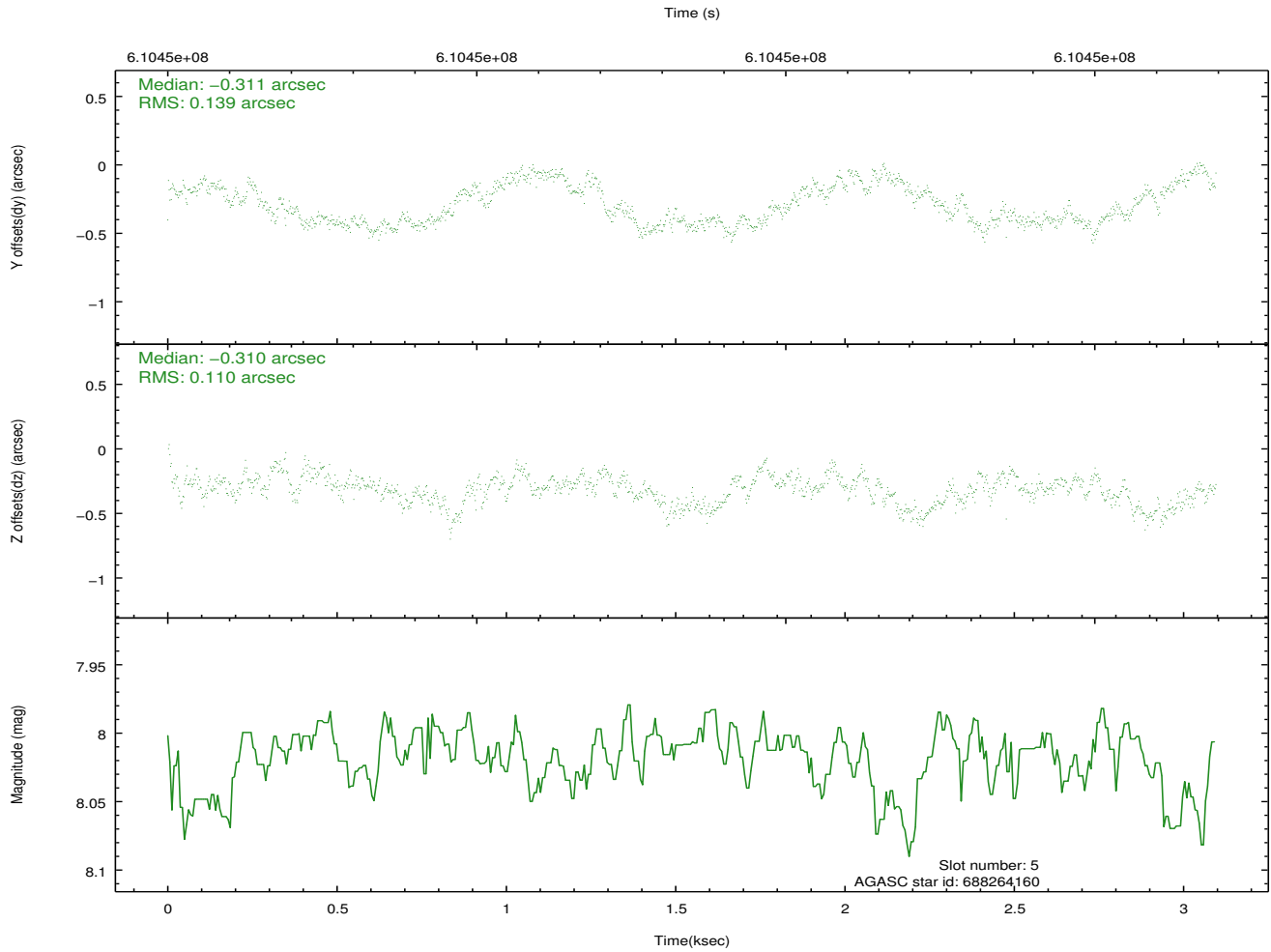
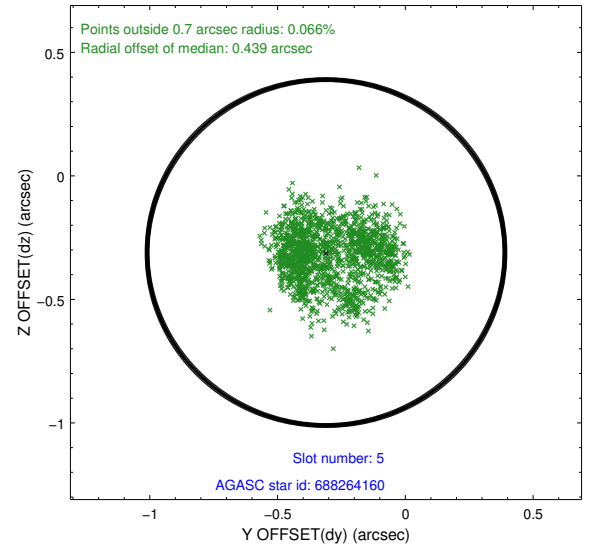
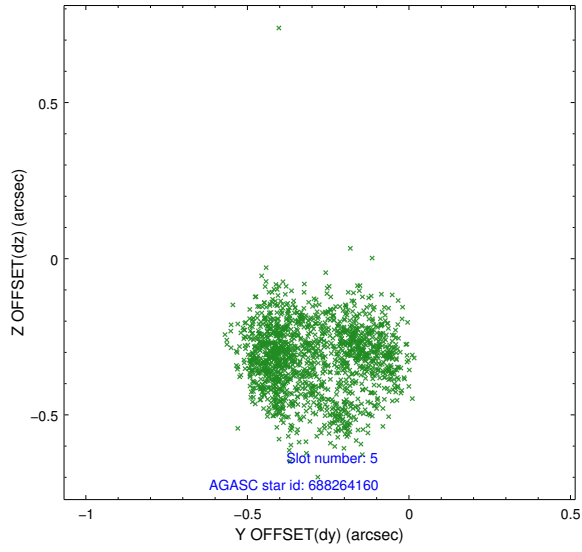
2.4.1 Slot 3



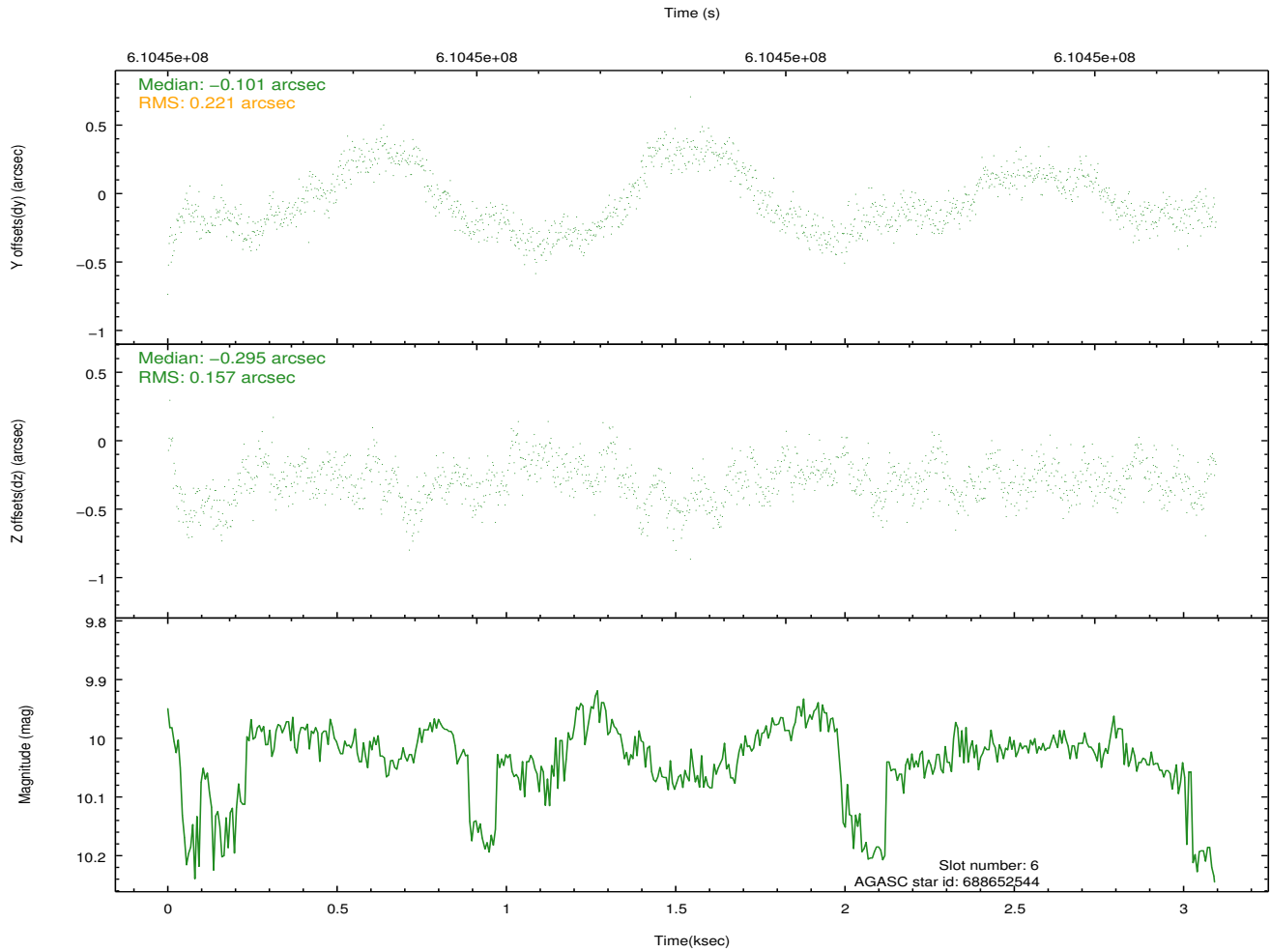
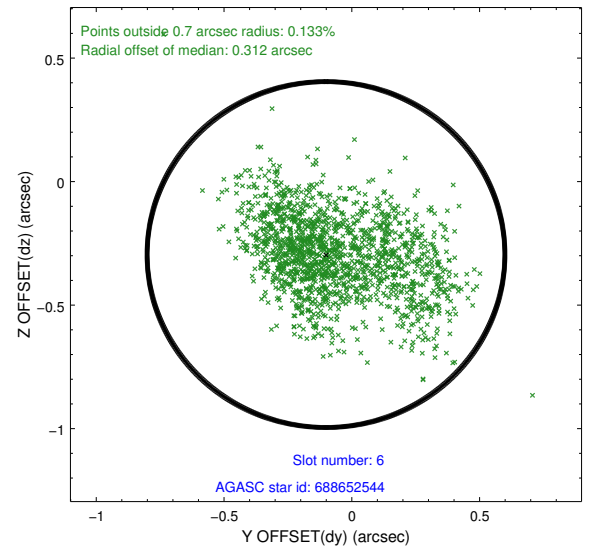
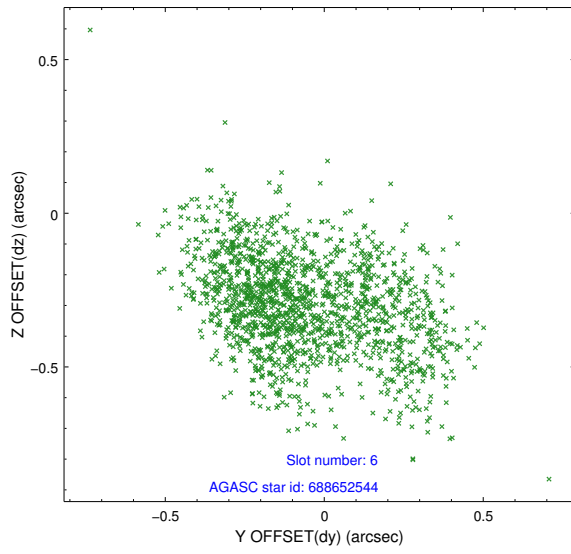
2.4.2 Slot 4



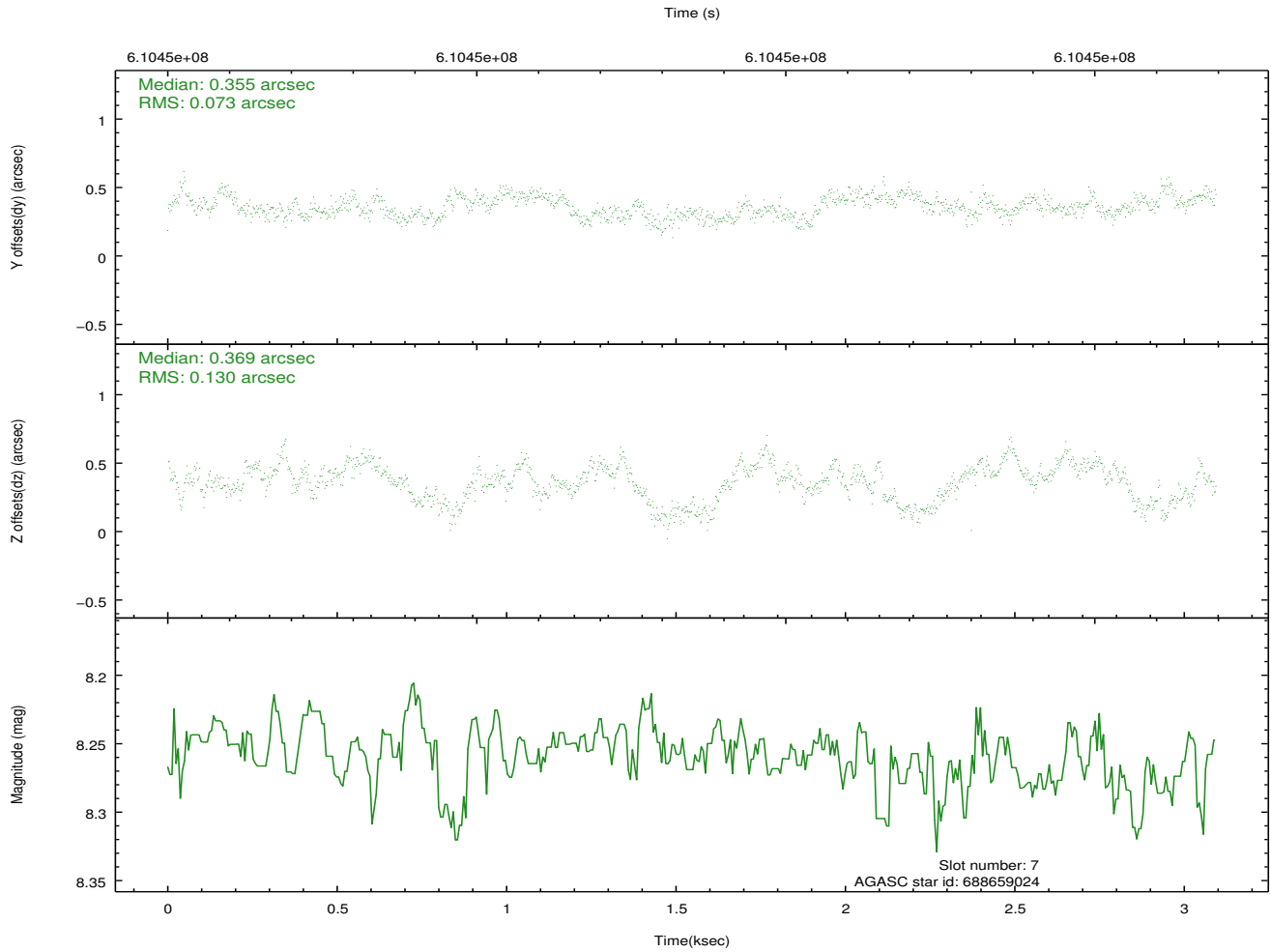
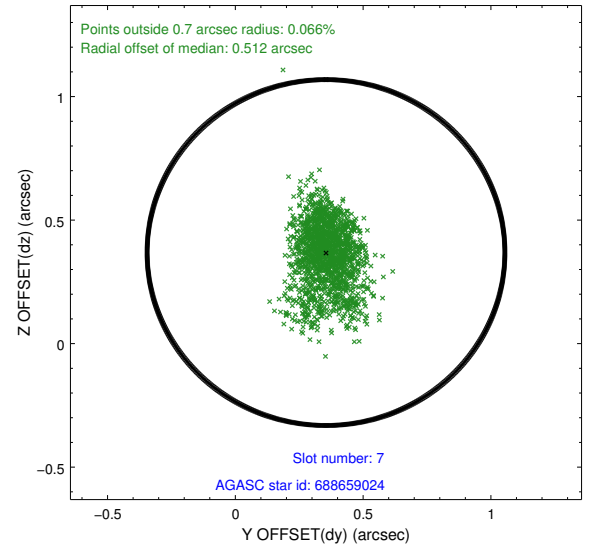
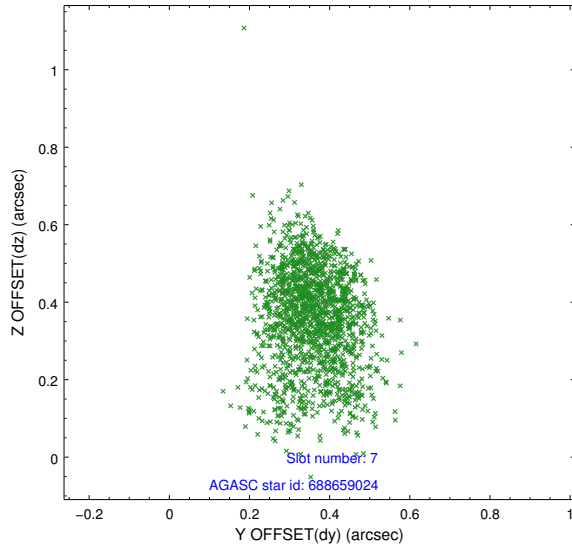
2.4.3 Slot 5



2.4.4 Slot 6

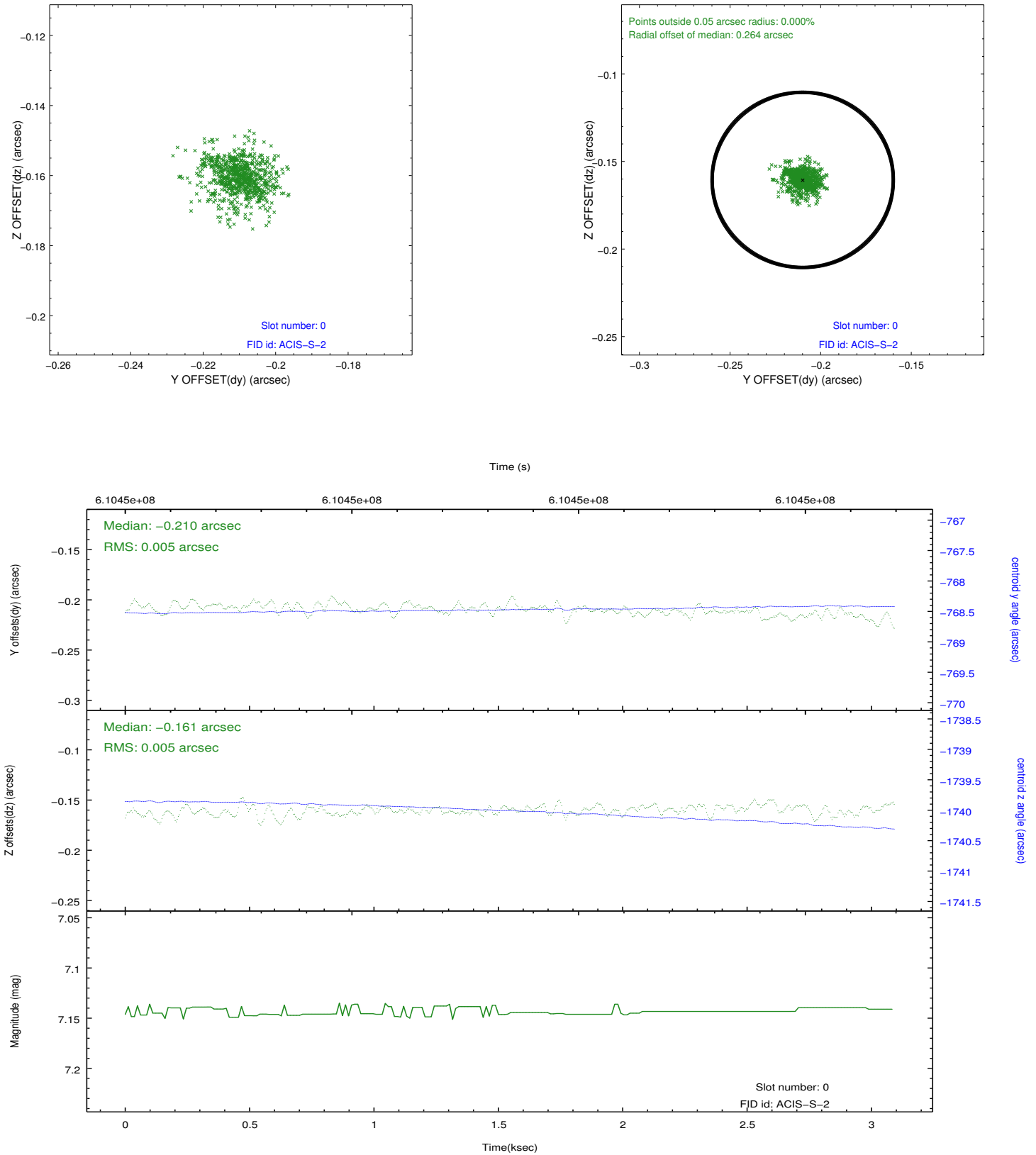


2.4.5 Slot 7

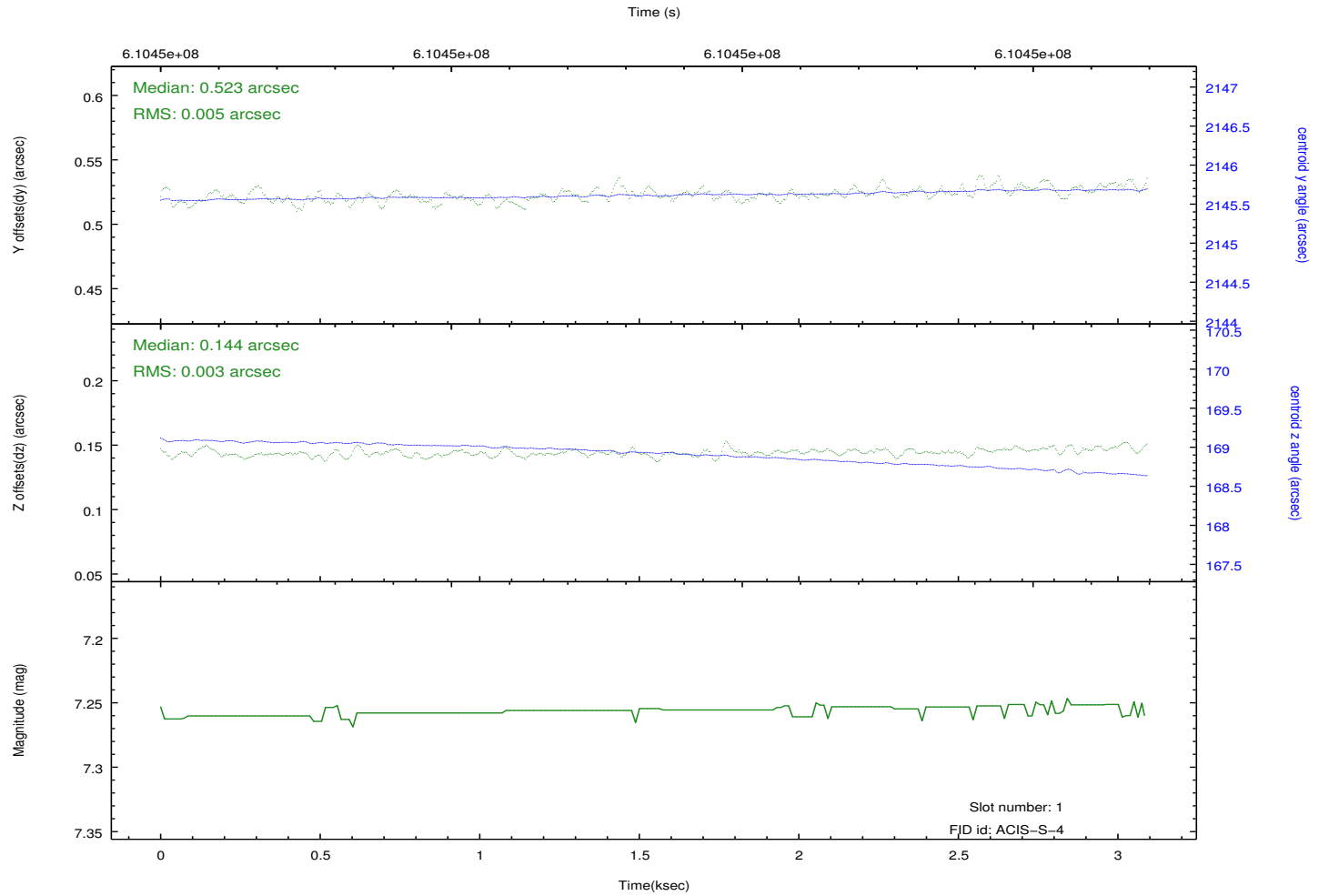
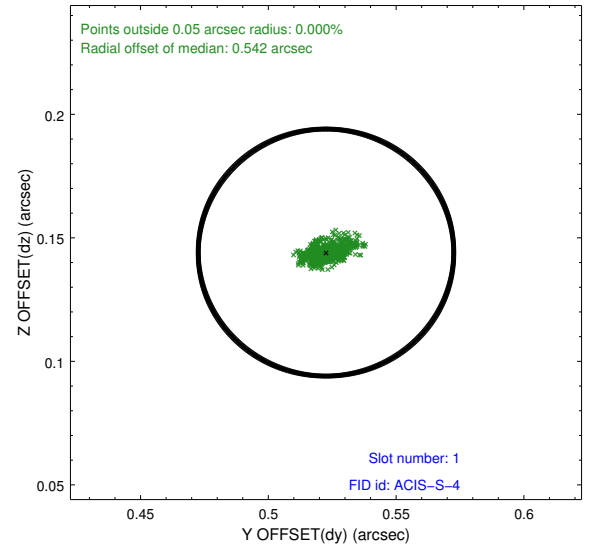
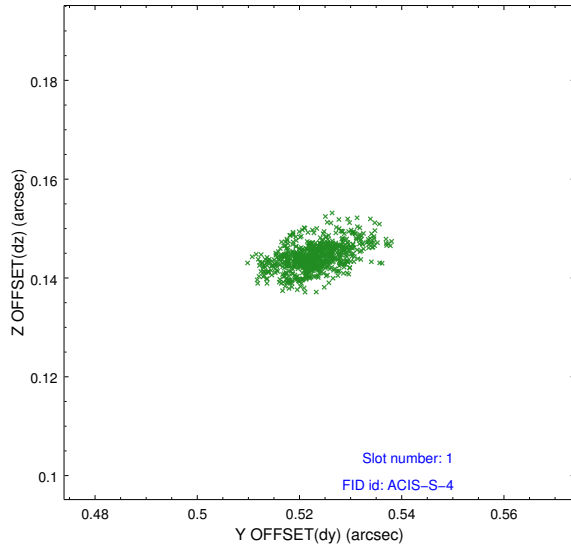


2.5 FID Slots

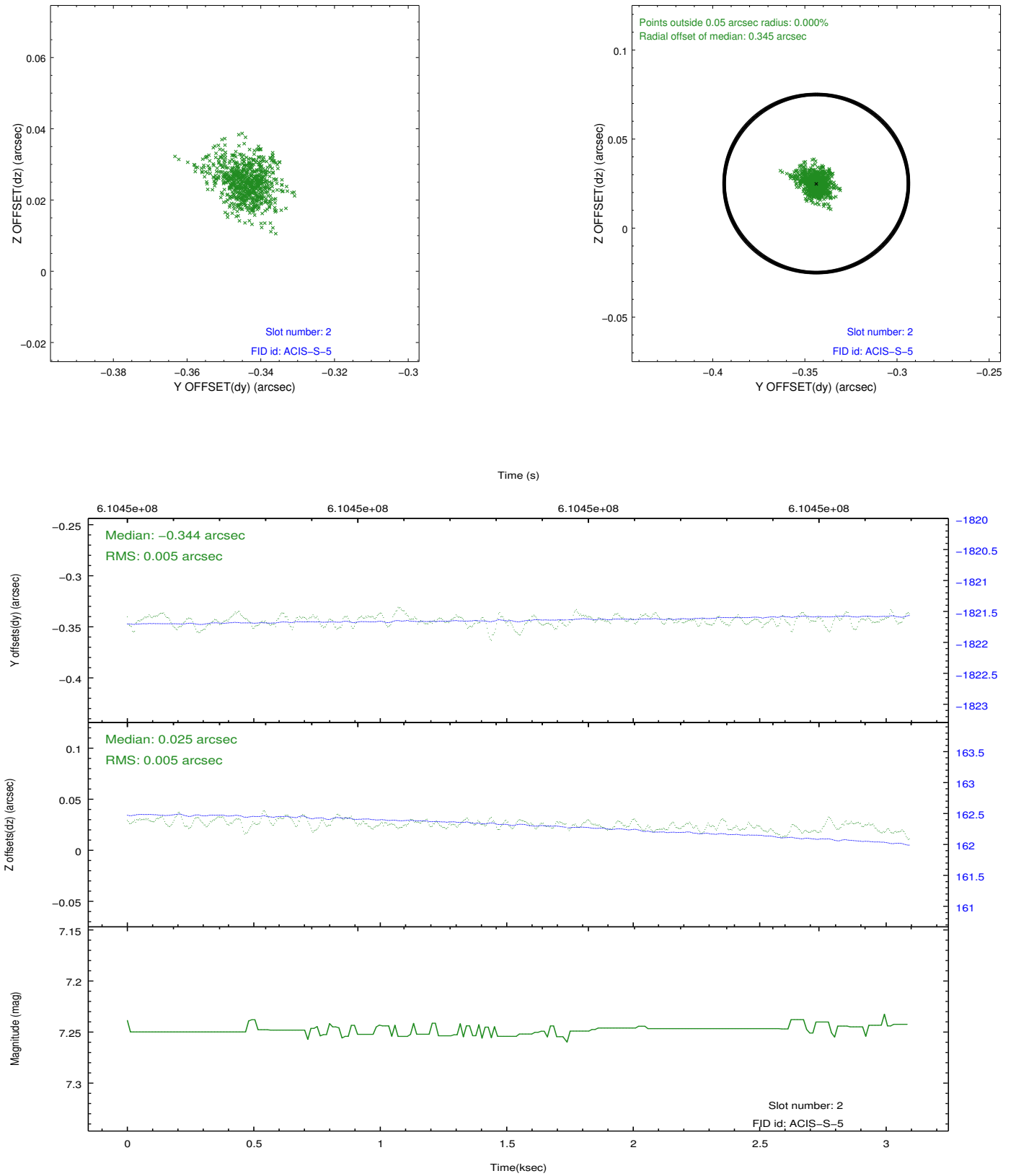
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.952419652462

A.2 Comments