

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 20298 - L2 Version 1
Chandra X-Ray Center

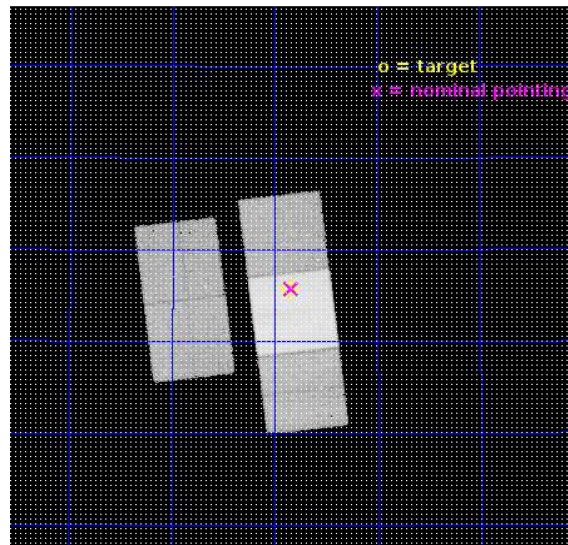
L2 Processing Date : Apr 11 2019

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1 Front

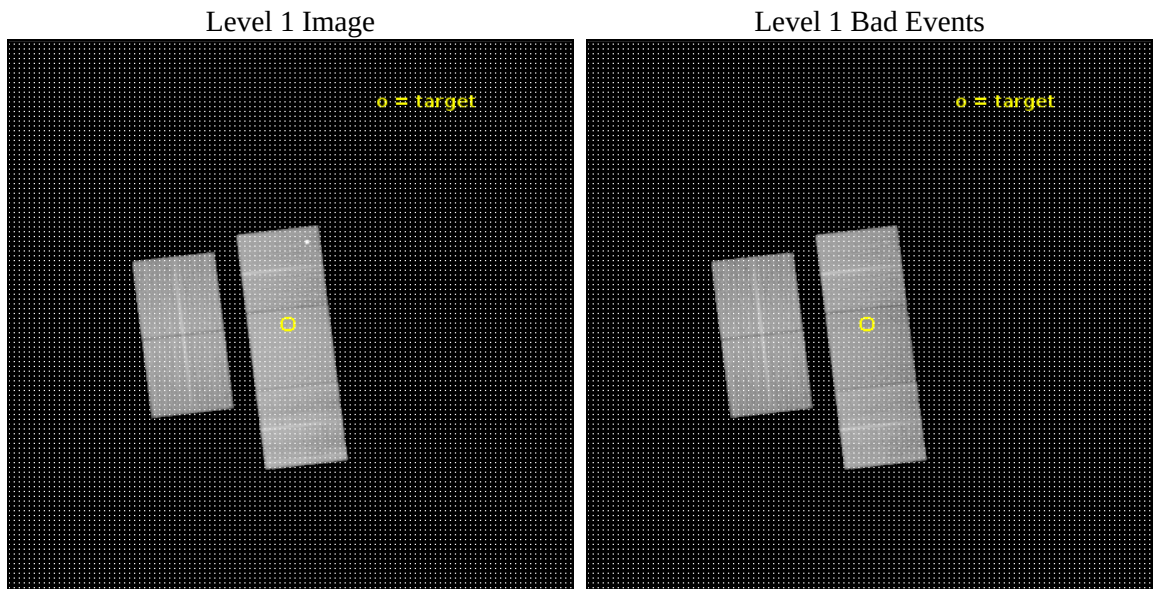
seq_num	502997	Sequence number
obs_id	20298	Observation id
title	PSR J2030+4415: A Breakthrough Target for Bowshock Studies	Proposa
observer	Roger Romani	Principal investigator
object	PSR J2030+4415	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	307.714167	Observer's specified target RA [deg]
dec_targ	44.260861	Observer's specified target Dec [deg]
ra_nom	307.70992531526	Nominal RA [deg]
dec_nom	44.262387155518	Nominal Dec [deg]
roll_nom	83.159603222255	Nominal Roll [deg]
revision	1	Processing version of data
ontime	45055.400346637	Sum of GTIs [s]
livetime	44466.718371805	Livetime [s]
ontime2	45049.118415952	Sum of GTIs [s]
ontime3	45049.118336201	Sum of GTIs [s]
ontime6	45045.977365971	Sum of GTIs [s]
ontime7	45055.400346637	Sum of GTIs [s]
ontime8	45052.259396315	Sum of GTIs [s]
l2events	366180	Number of level 2 events



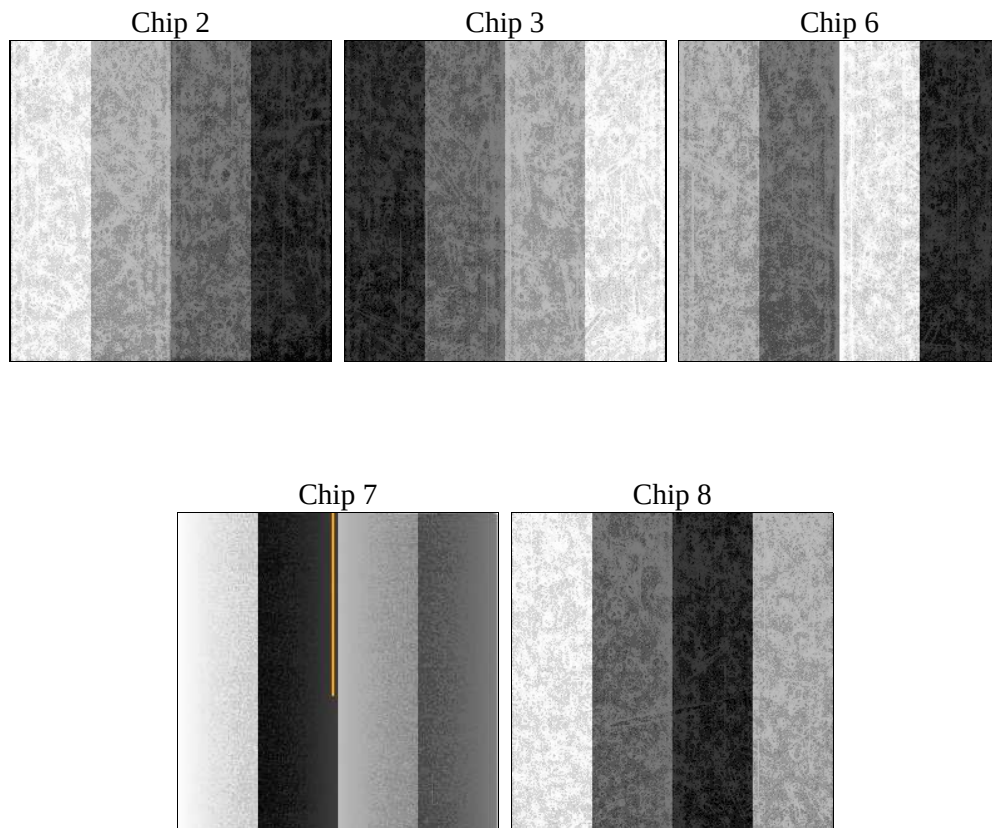
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	45055.400346637	Sum of GTIs [s]
caldsver	4.8.2	 	ontime2	45049.118415952	Sum of GTIs [s]
date	2019-04-11T16:05:23	Date and time of file creation	ontime3	45049.118336201	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	45045.977365971	Sum of GTIs [s]
			ontime7	45055.400346637	Sum of GTIs [s]
			ontime8	45052.259396315	Sum of GTIs [s]
			l1events	1988732	Number of level 1 events

2.1.4 Events

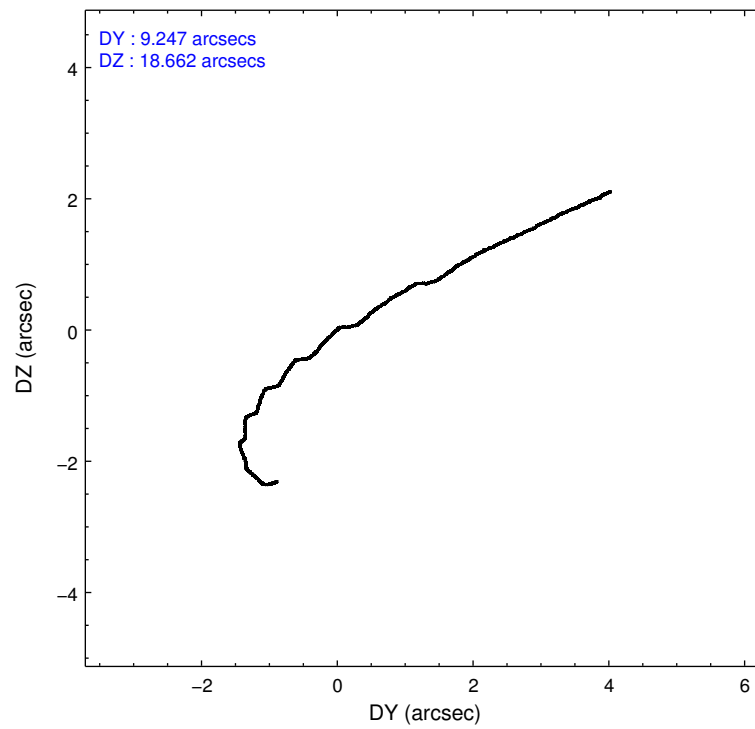
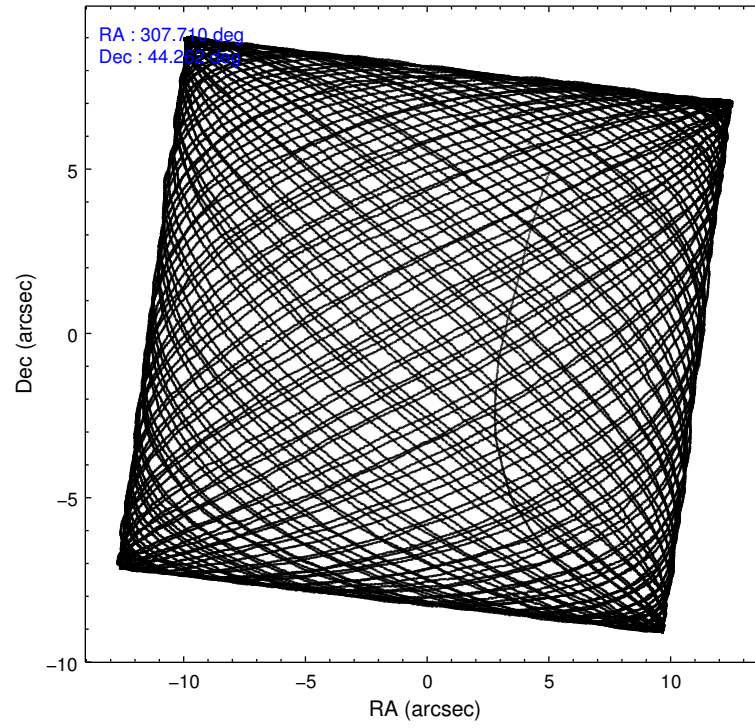
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	344878	338046	382841	454607	468360
rejected events	300578	294319	321099	251078	331340
rejected %	87%	87%	83%	55%	70%

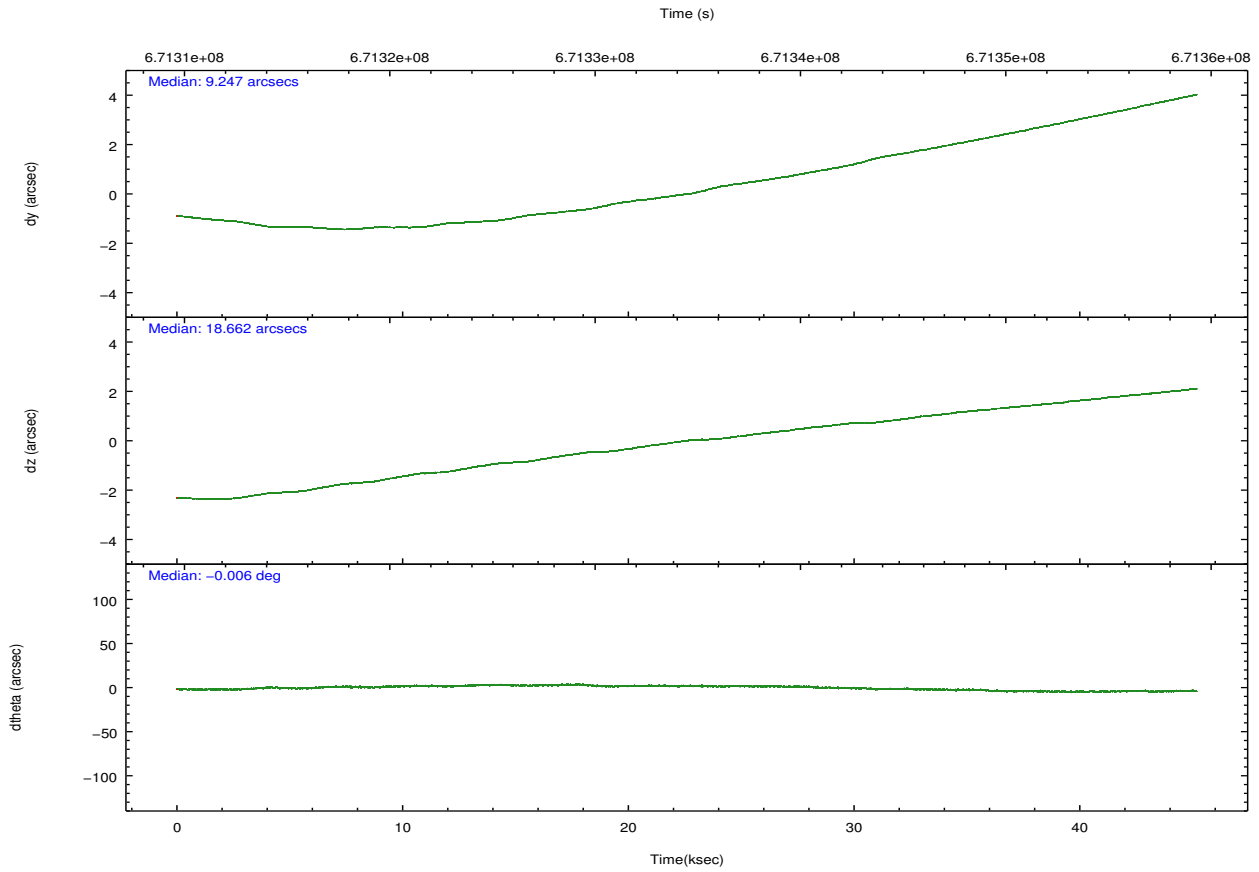
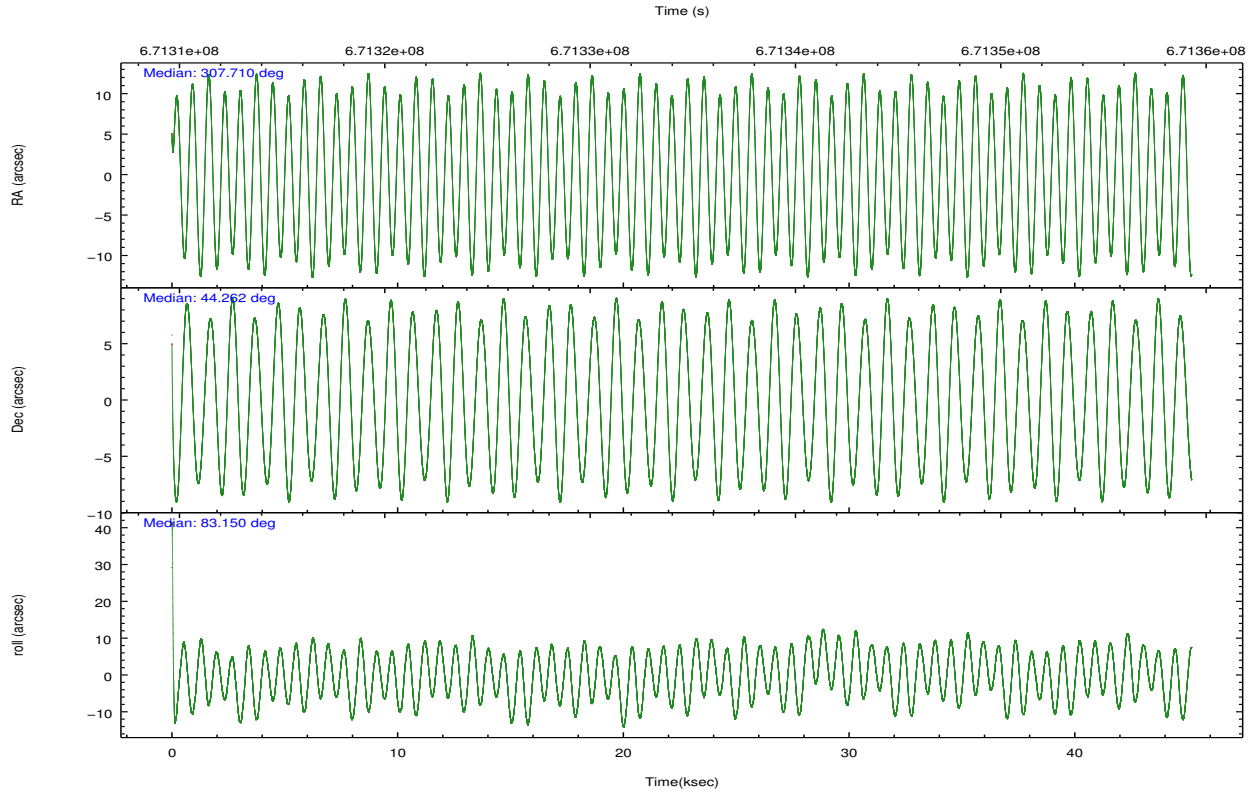
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	16907	17846	17505	18039	43041
	4%	5%	4%	3%	9%
grade 1 events	232	226	178	673	403
	0%	0%	0%	0%	0%
grade 2 events	10502	8897	24779	43849	31962
	3%	2%	6%	9%	6%
grade 3 events	4045	4177	4266	15879	13823
	1%	1%	1%	3%	2%
grade 4 events	4191	4127	4224	15887	12801
	1%	1%	1%	3%	2%
grade 5 events	13945	16215	16575	44676	25044
	4%	4%	4%	9%	5%
grade 6 events	8662	8685	10972	109898	35400
	2%	2%	2%	24%	7%
grade 7 events	286394	277873	304342	205706	305886
	83%	82%	79%	45%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	307.725444	307.7099253152596	CCD I2 on	O1	Y
[deg] Pointing Dec	44.237293	44.26238715551796	CCD I3 on	O2	Y
[deg] Pointing Roll	82.992130	83.15960322225511	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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	O3	Y
[s] Observation start time (MET)	671312064.184000	671310823.74	CCD S5 on	N	N
Observation start date	2019-04-10T19:33:15	2019-04-10T19:13:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	671357064.184000	671358037.80533	On-chip summing requested	N	N
Observation end date	2019-04-11T08:03:15	2019-04-11T08:20:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



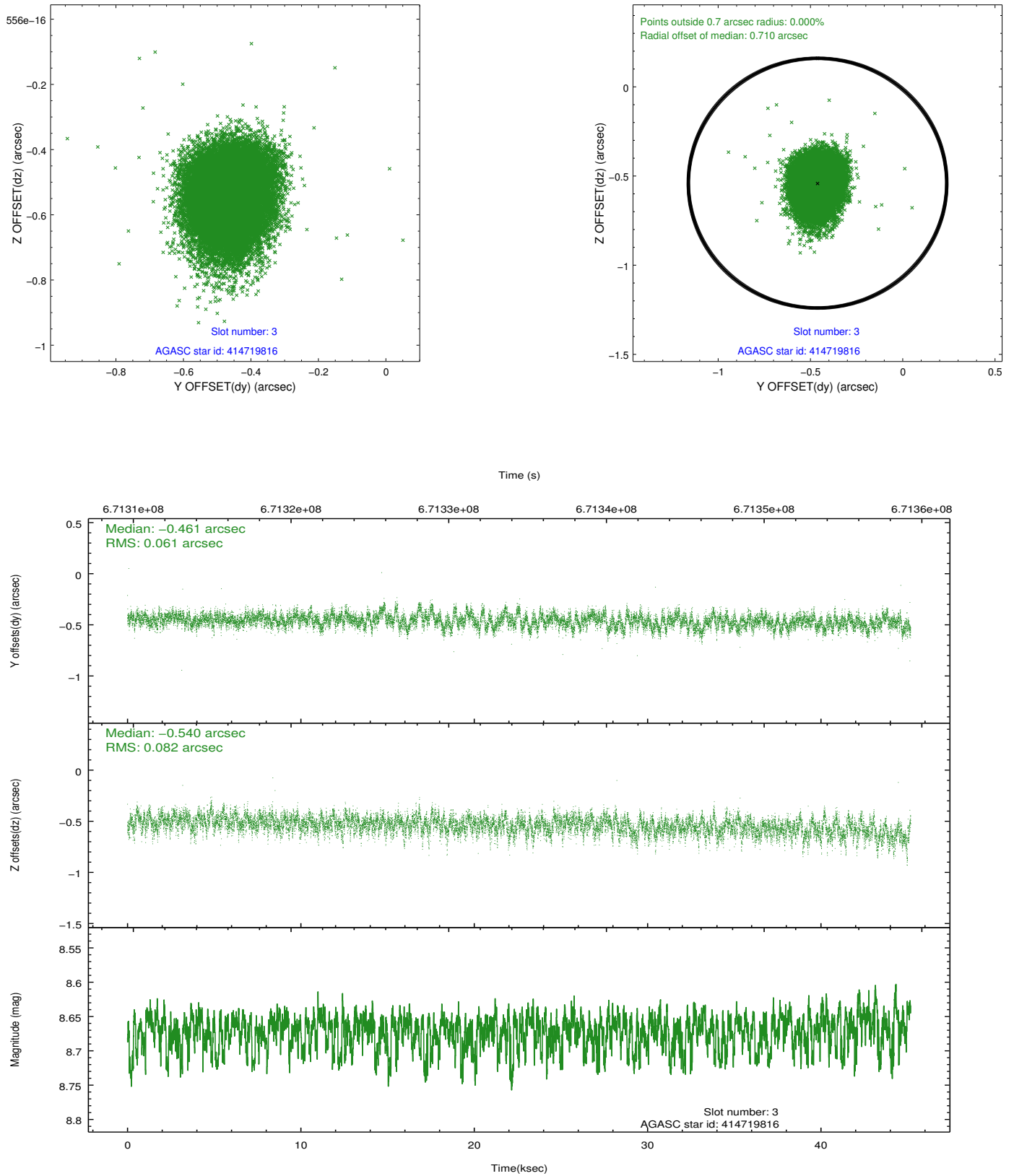


Slot Statistics

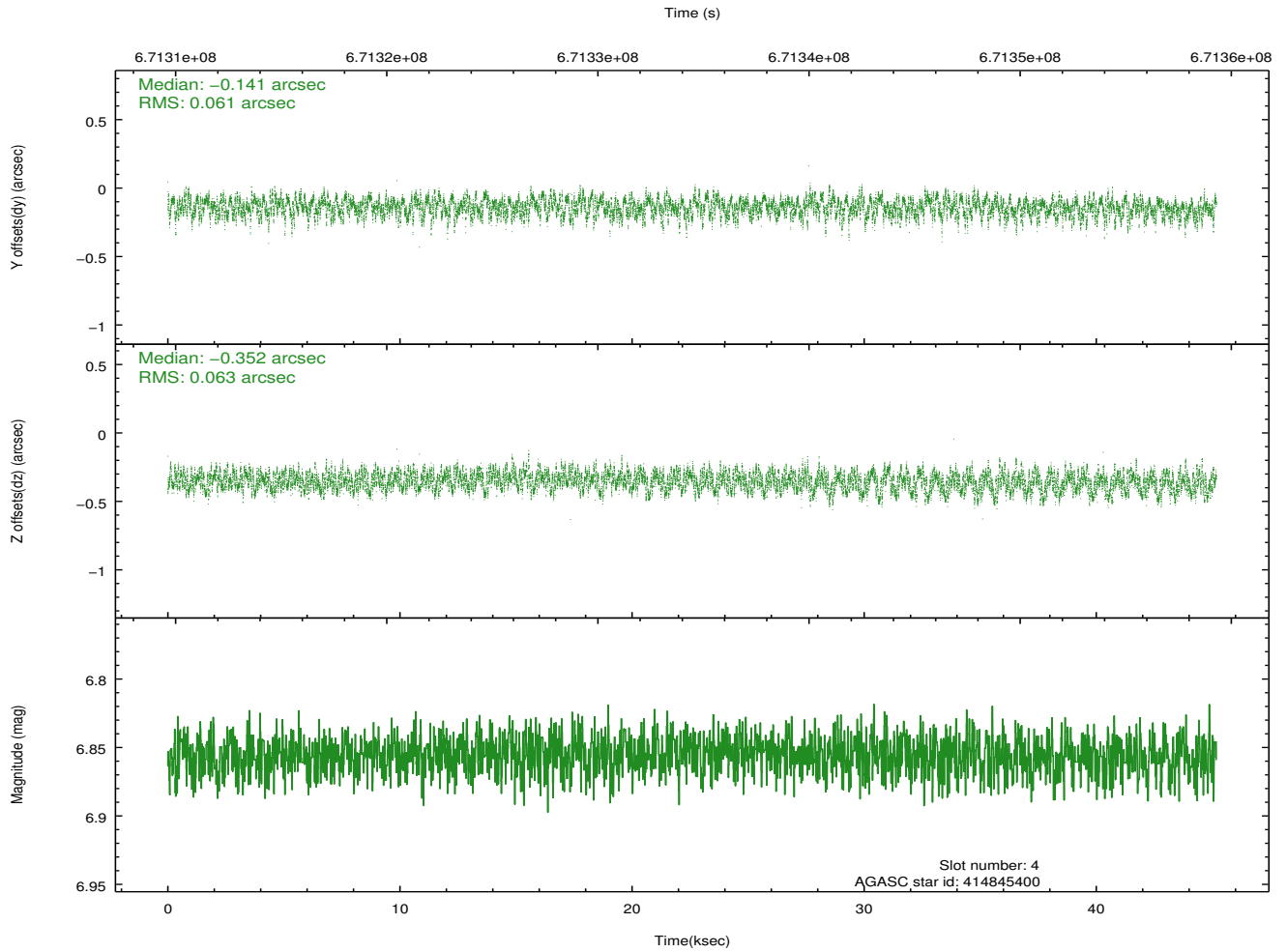
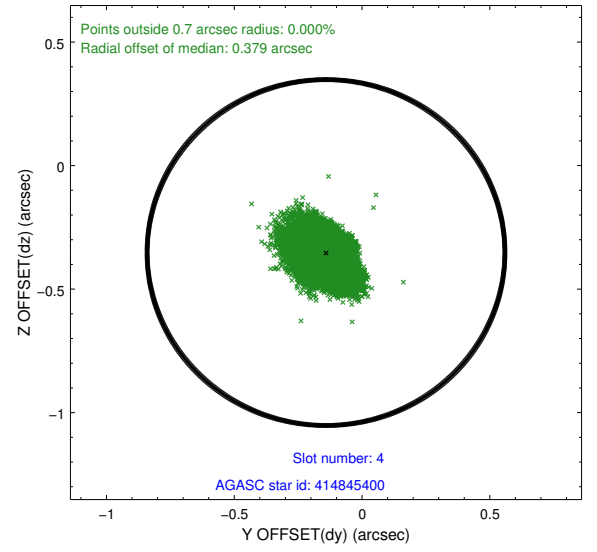
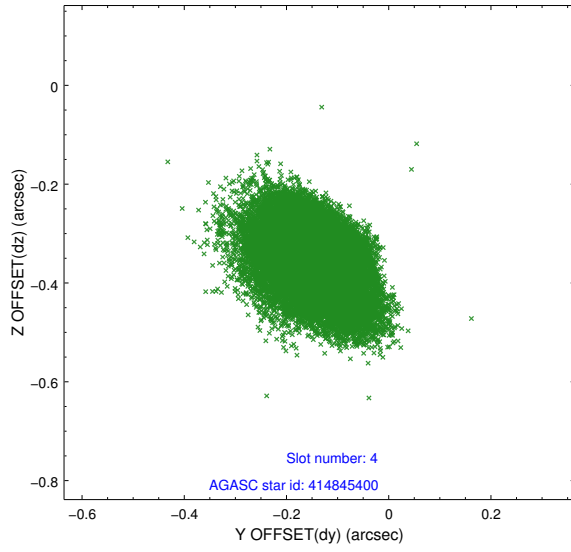
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.97	11019	1.000	-0.260	-0.131	0.031	0.039	0.000000	0.000000	-762.76	-1740
1	FID		ACIS-S-4	7.09	11020	1.000	0.625	0.163	0.059	0.085	0.000000	0.000000	2151.34	168
2	FID		ACIS-S-5	7.08	11020	1.000	-0.393	-0.022	0.040	0.071	0.000000	0.000000	-1815.79	162
3	GUIDE	used	414719816	8.67	22024	1.000	-0.461	-0.540	0.107	0.177	306.965041	44.477406	628.51	2045
4	GUIDE	used	414845400	6.86	22039	1.000	-0.141	-0.352	0.094	0.150	307.645708	44.315241	253.61	238
5	GUIDE	used	414850000	8.38	22026	1.000	0.324	0.289	0.123	0.191	307.967222	44.111985	-369.91	-674
6	GUIDE	used	414844656	8.34	22023	1.000	0.374	0.827	0.110	0.189	308.466261	43.520199	-2316.95	-2232
7	GUIDE	used	414721960	8.52	22007	1.000	-0.090	-0.216	0.119	0.179	306.992291	43.980466	-1141.26	1772

2.4 Star Slots

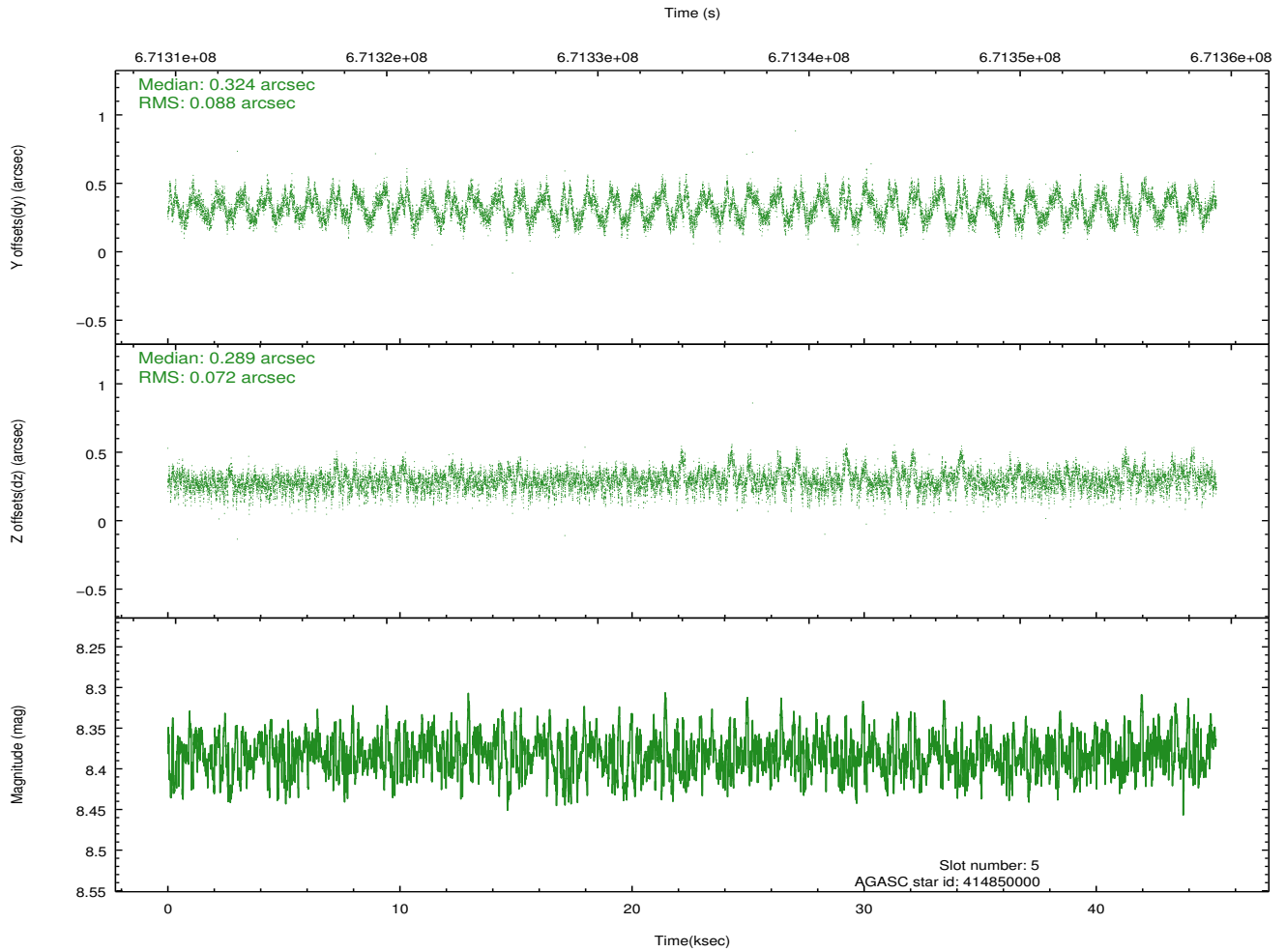
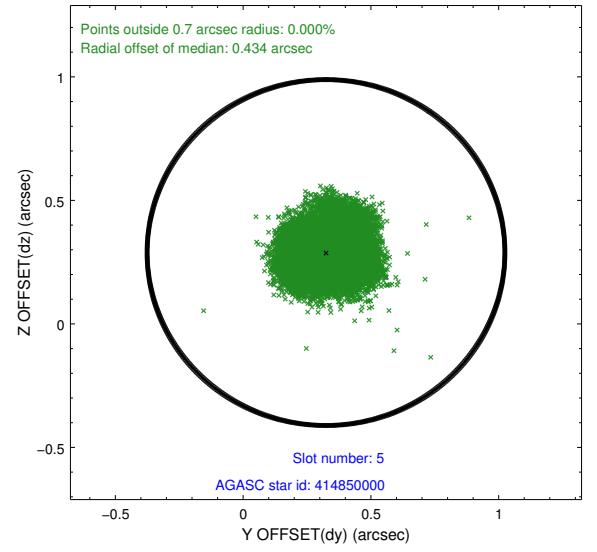
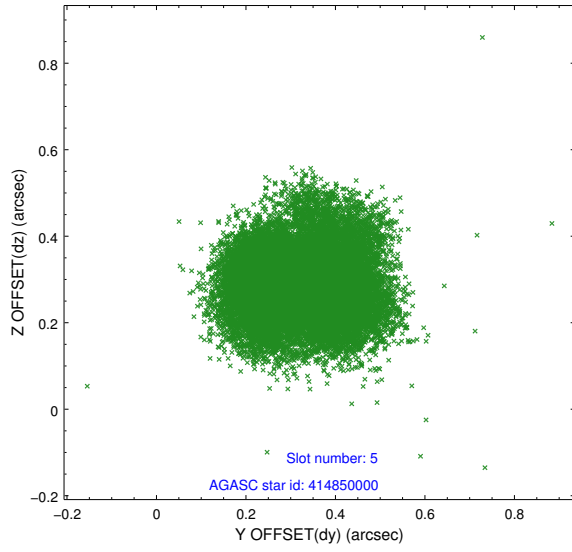
2.4.1 Slot 3



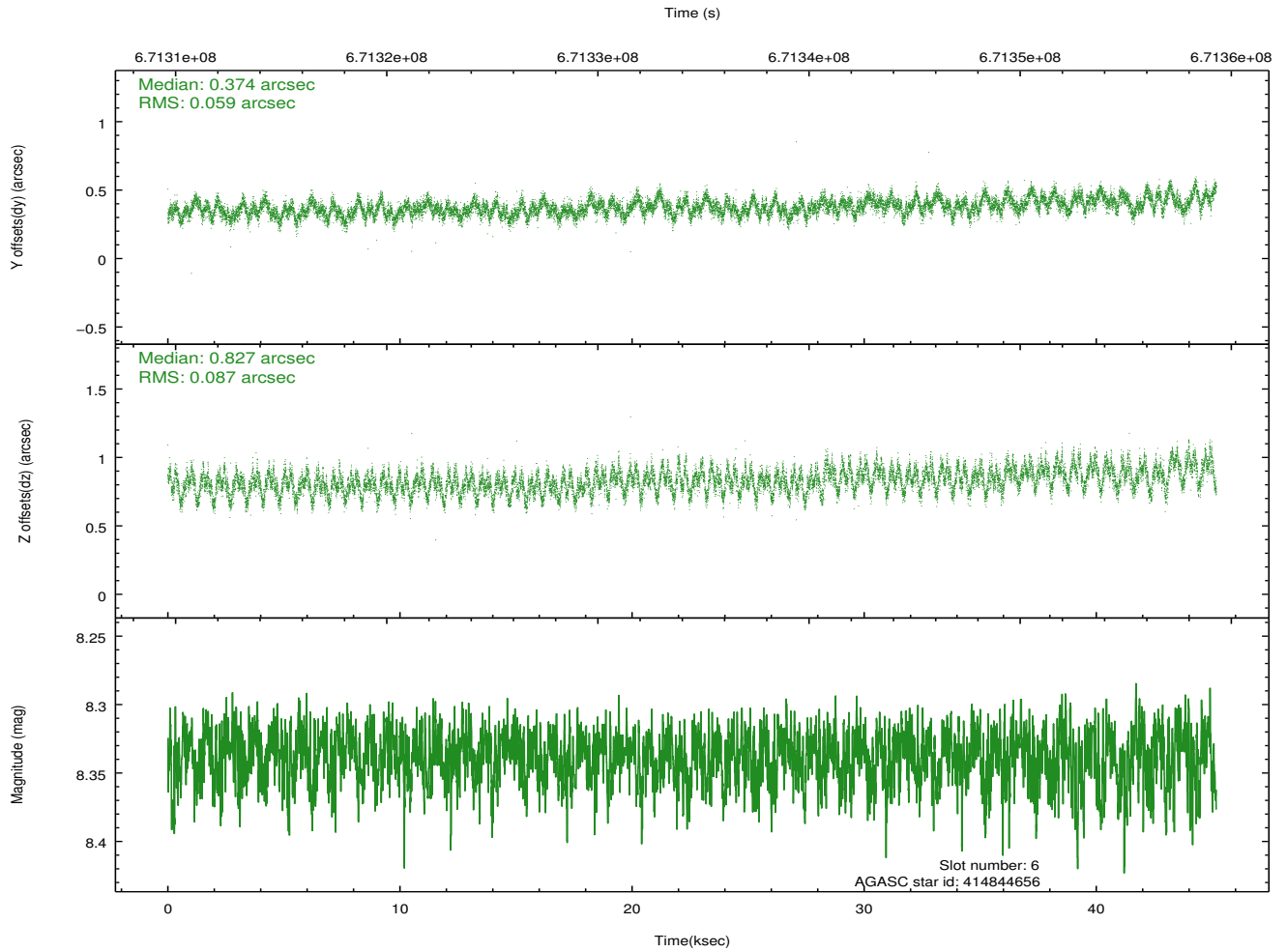
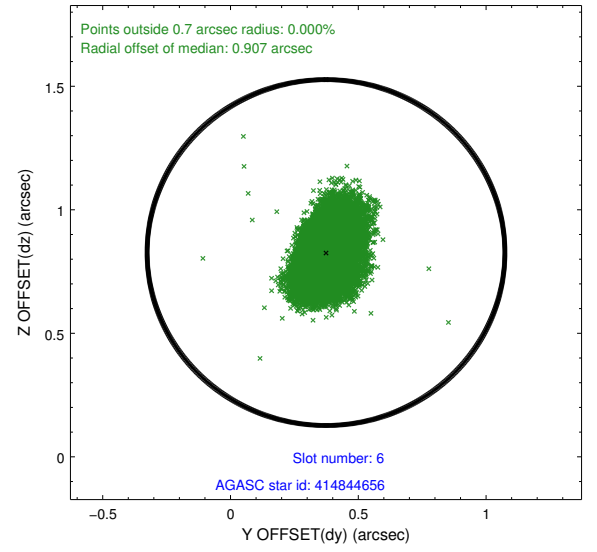
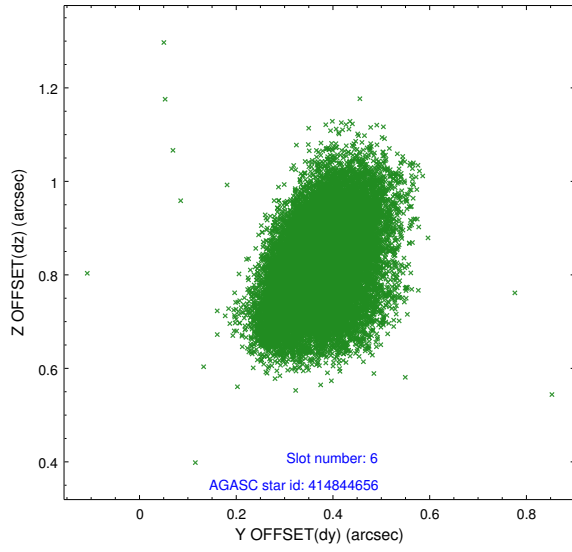
2.4.2 Slot 4



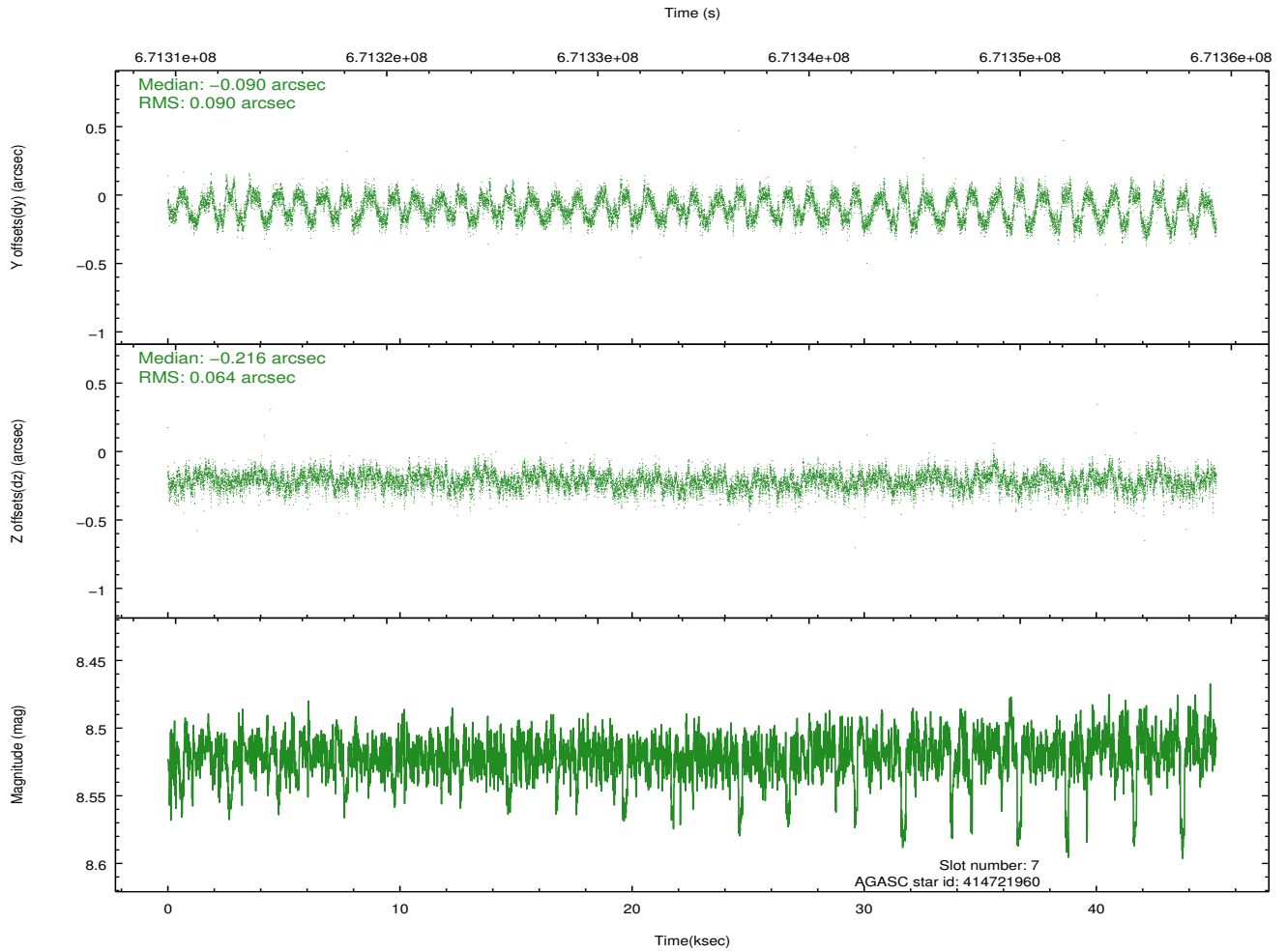
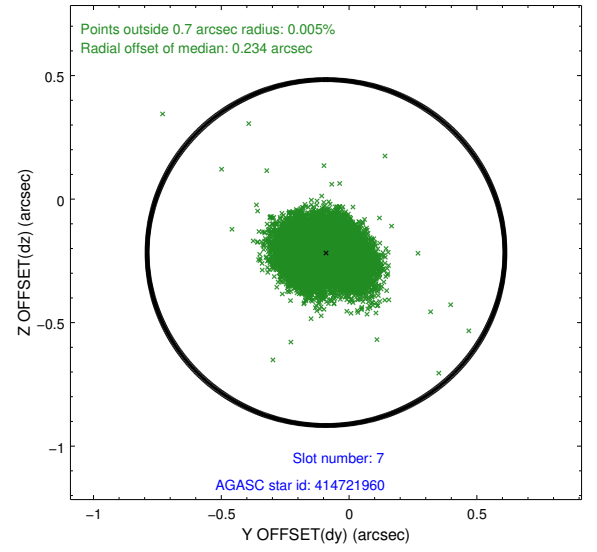
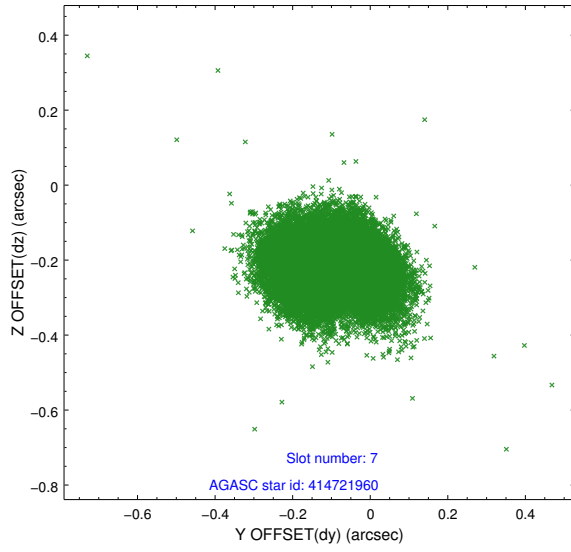
2.4.3 Slot 5



2.4.4 Slot 6

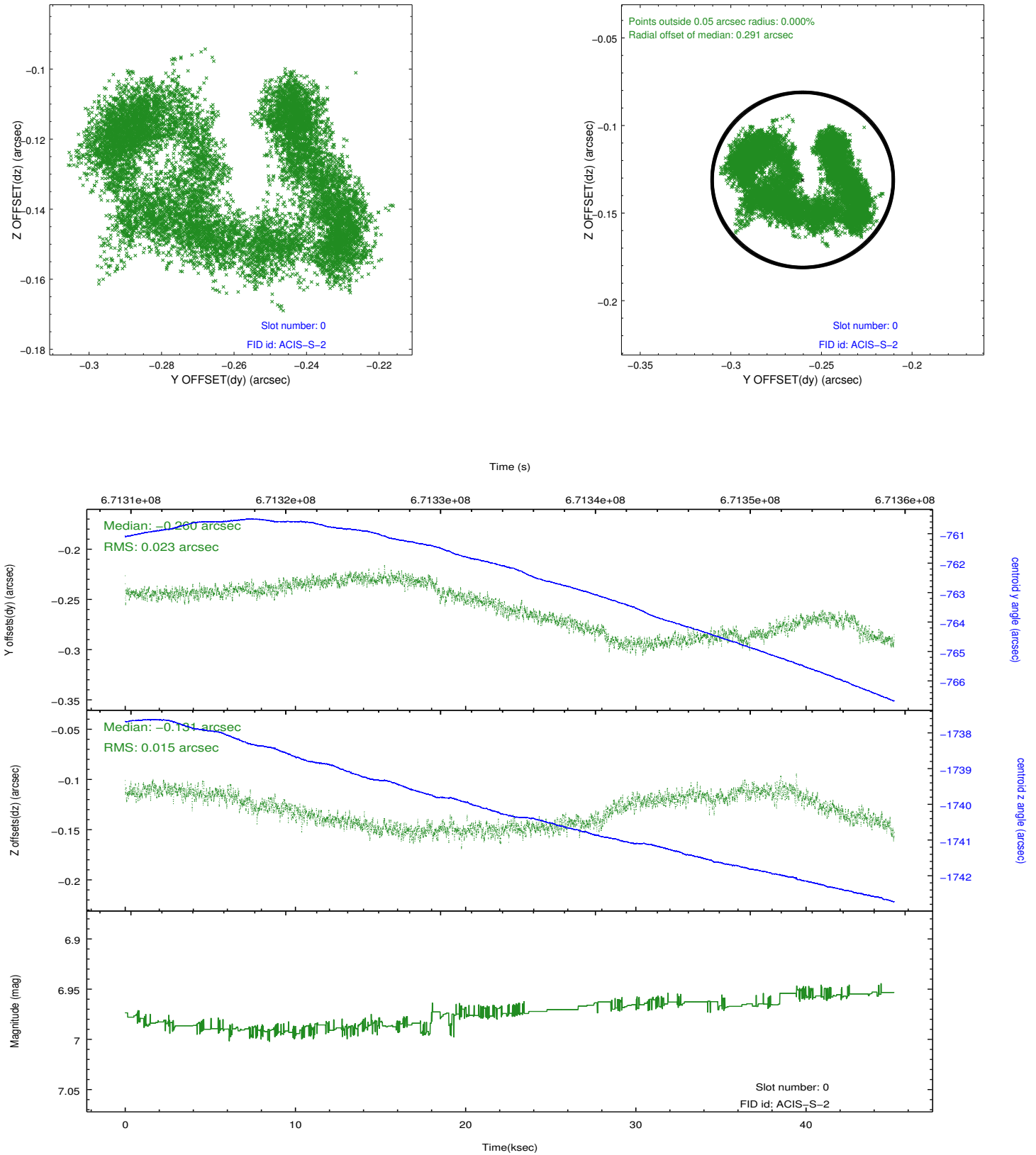


2.4.5 Slot 7

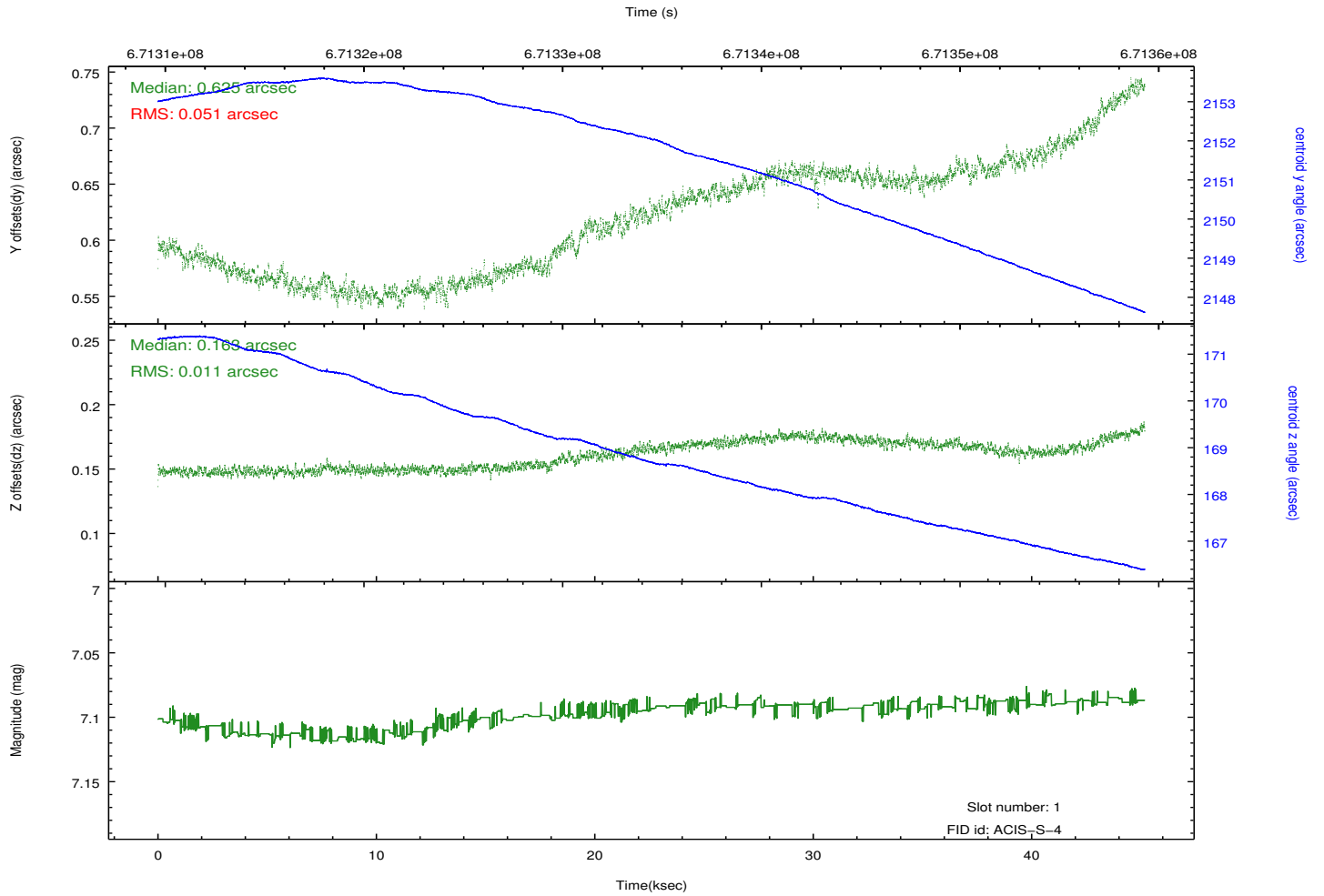
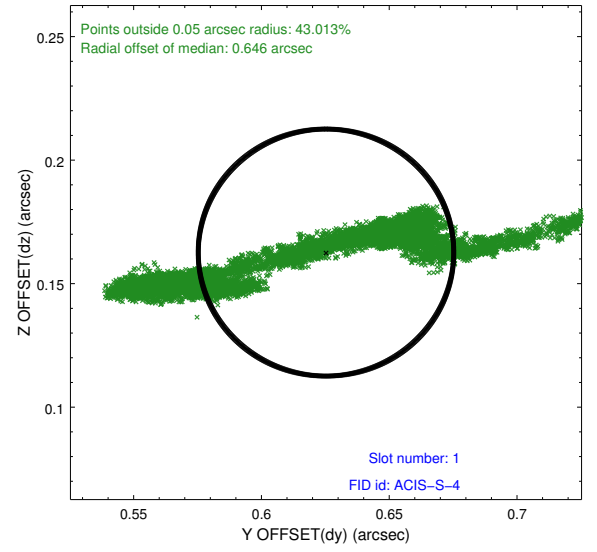
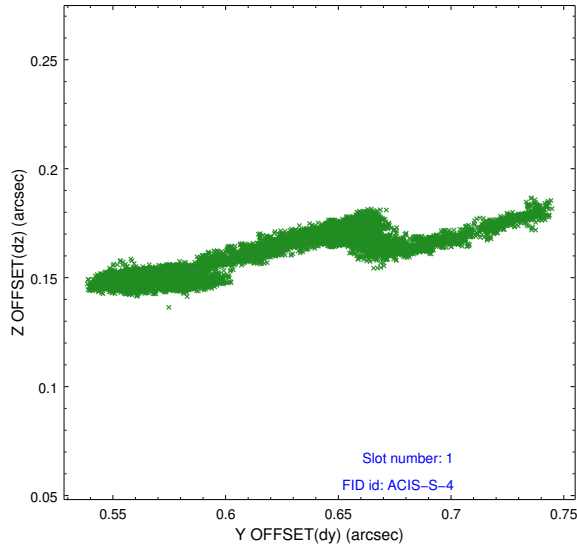


2.5 FID Slots

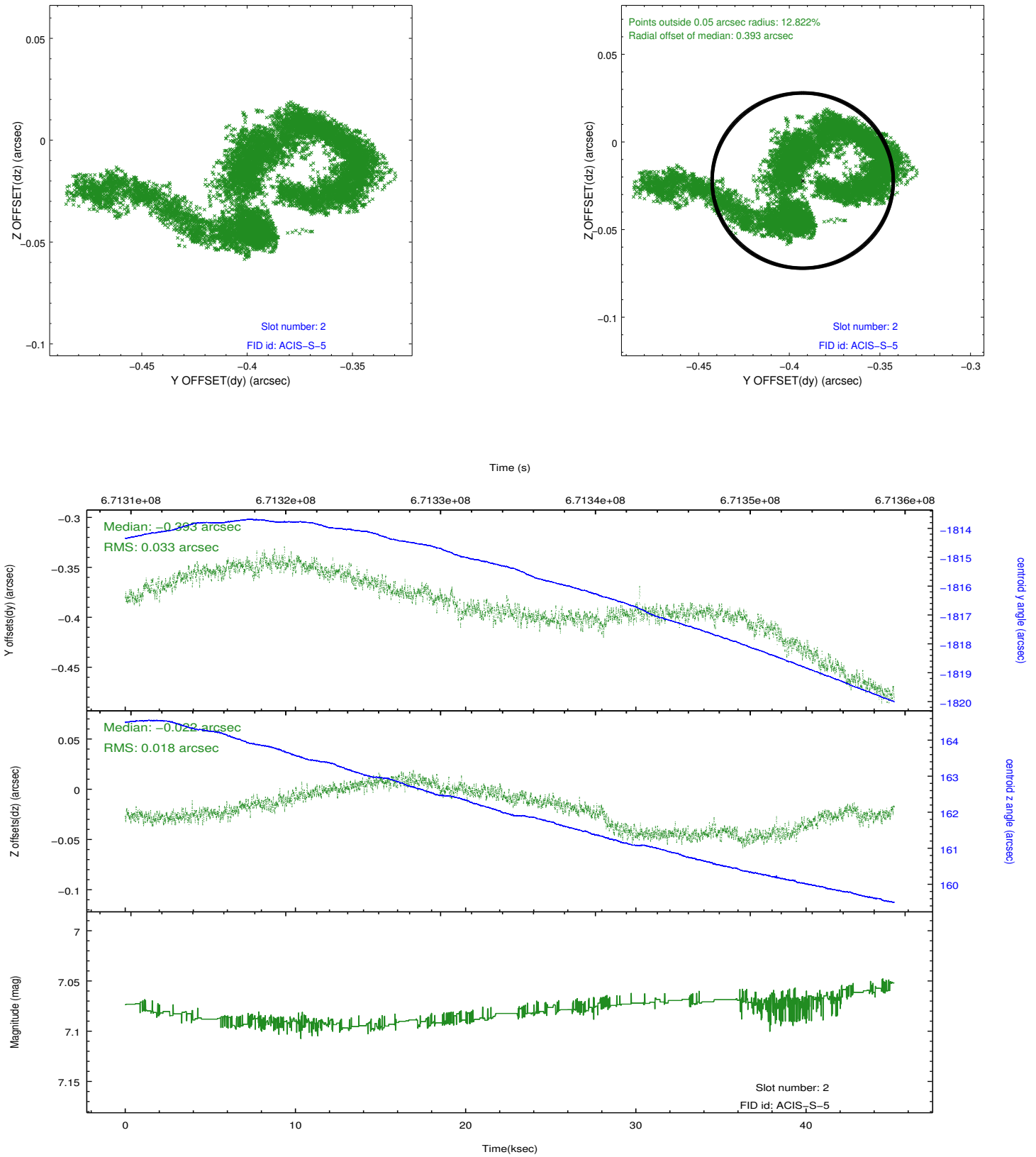
2.5.1 Slot 0



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)	2019.04.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.055400346637

A.2 Comments