

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 16649 - L2 Version 1
Chandra X-Ray Center

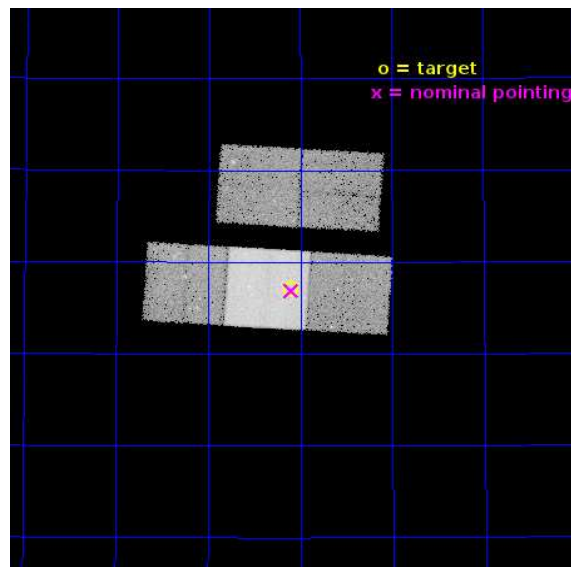
L2 Processing Date : May 16 2016

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

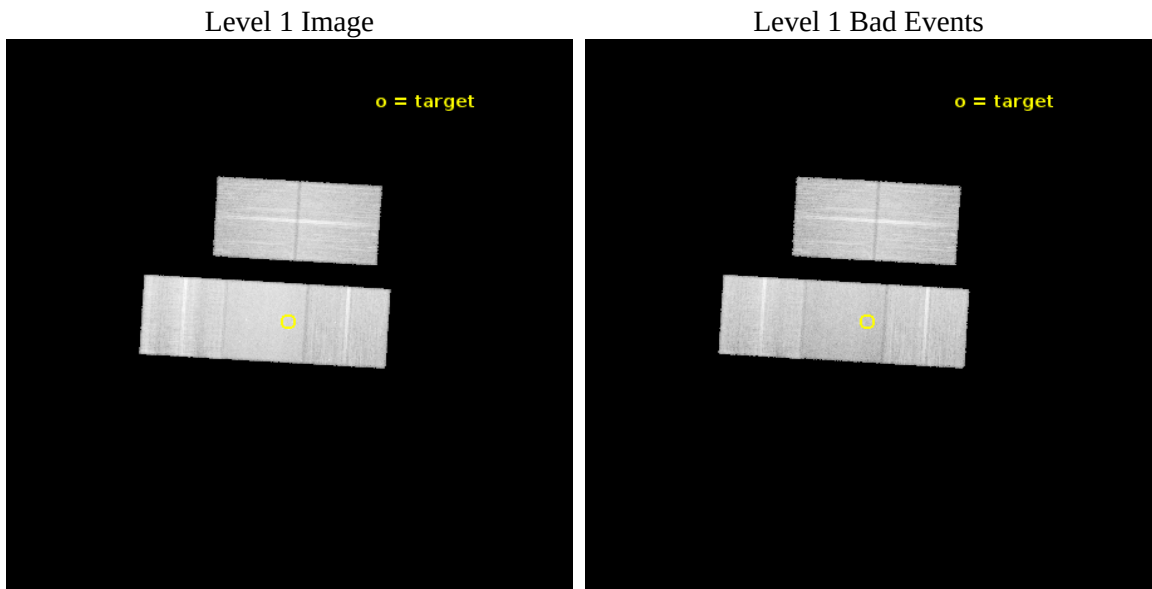
seq_num	200971	Sequence number
obs_id	16649	Observation id
title	Rejuvenation of the Innocent Bystander: Testing Spin-Up in a Dwarf Carbon Star Sample	Proposal title
observer	Paul Green	Principal investigator
object	CBS311	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	229.775	Observer's specified target RA [deg]
dec_targ	50.117472	Observer's specified target Dec [deg]
ra_nom	229.77406746728	Nominal RA [deg]
dec_nom	50.114990745499	Nominal Dec [deg]
roll_nom	183.48186784233	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27958.880833864	Sum of GTIs [s]
livetime	27593.577472741	Livetime [s]
ontime2	27952.434633374	Sum of GTIs [s]
ontime3	27955.657723665	Sum of GTIs [s]
ontime6	27955.698753715	Sum of GTIs [s]
ontime7	27958.880833864	Sum of GTIs [s]
ontime8	27949.33463335	Sum of GTIs [s]
l2events	166112	Number of level 2 events



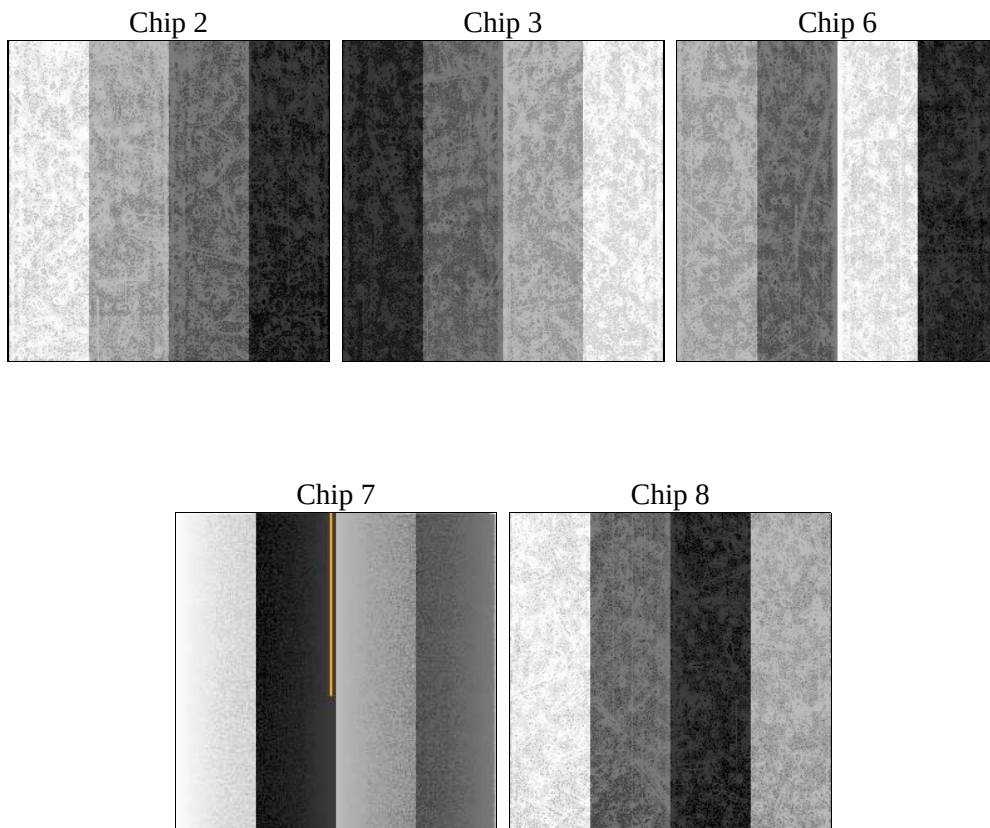
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27900.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	27958.880833864	Sum of GTIs [s]
caldbver	4.7.1	 	ontime2	27952.434633374	Sum of GTIs [s]
date	2016-05-16T15:37:48	Date and time of file creation	ontime3	27955.657723665	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	27955.698753715	Sum of GTIs [s]
			ontime7	27958.880833864	Sum of GTIs [s]
			ontime8	27949.33463335	Sum of GTIs [s]
			l1events	1019885	Number of level 1 events

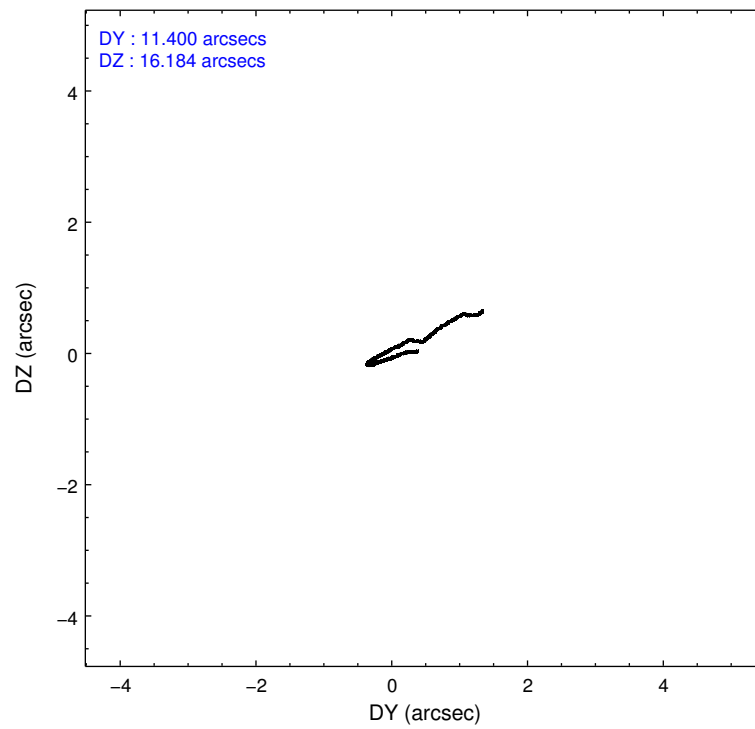
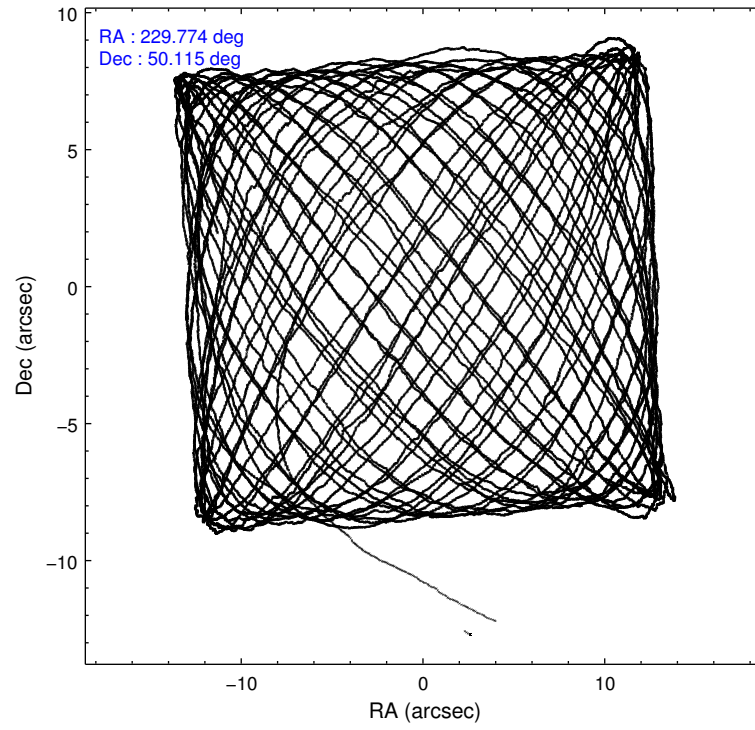
2.1.4 Events

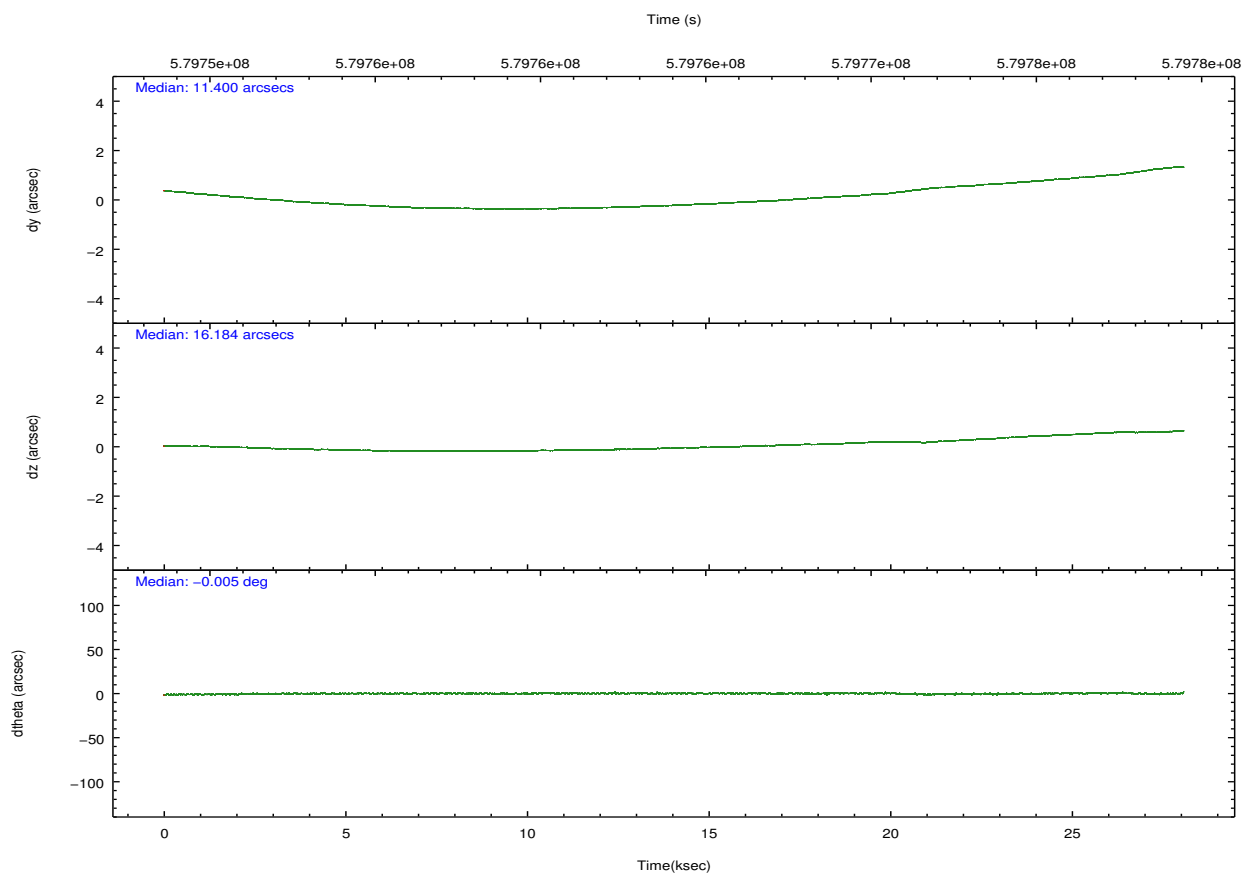
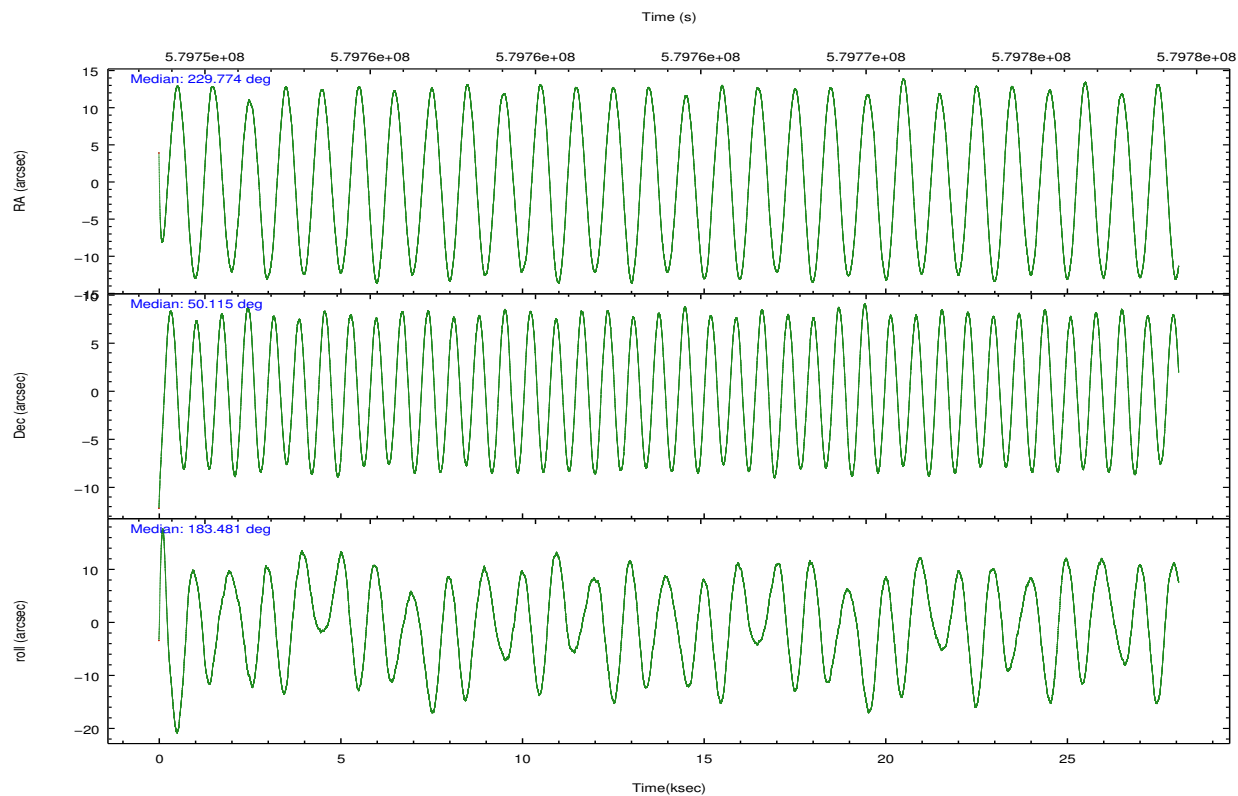
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	179111	174072	188157	234053	244492	grade 0 events	6430	6491	6405	8121	19067
rejected events	160816	155527	167844	134732	179920		3%	3%	3%	3%	7%
rejected %	89%	89%	89%	57%	73%	grade 1 events	97	92	82	312	174
							0%	0%	0%	0%	0%
						grade 2 events	4226	3903	4996	21083	14992
							2%	2%	2%	9%	6%
						grade 3 events	1965	1984	2004	7363	7048
							1%	1%	1%	3%	2%
						grade 4 events	1967	2109	1938	7218	6625
							1%	1%	1%	3%	2%
						grade 5 events	7042	8403	8154	21811	12593
							3%	4%	4%	9%	5%
						grade 6 events	3713	4061	4976	55555	16843
							2%	2%	2%	23%	6%
						grade 7 events	153671	147029	159602	112590	167150
							85%	84%	84%	48%	68%

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	229.809464	229.7740674672828	CCD I2 on	O1	Y
[deg] Pointing Dec	50.130418	50.11499074549933	CCD I3 on	Y	Y
[deg] Pointing Roll	183.298080	183.481867842329	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	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	579750180.184000	579749230.84543	CCD S5 on	N	N
Observation start date	2016-05-16T01:41:52	2016-05-16T01:27:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	579778080.184000	579778767.75962	On-chip summing requested	N	N
Observation end date	2016-05-16T09:26:52	2016-05-16T09:39:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



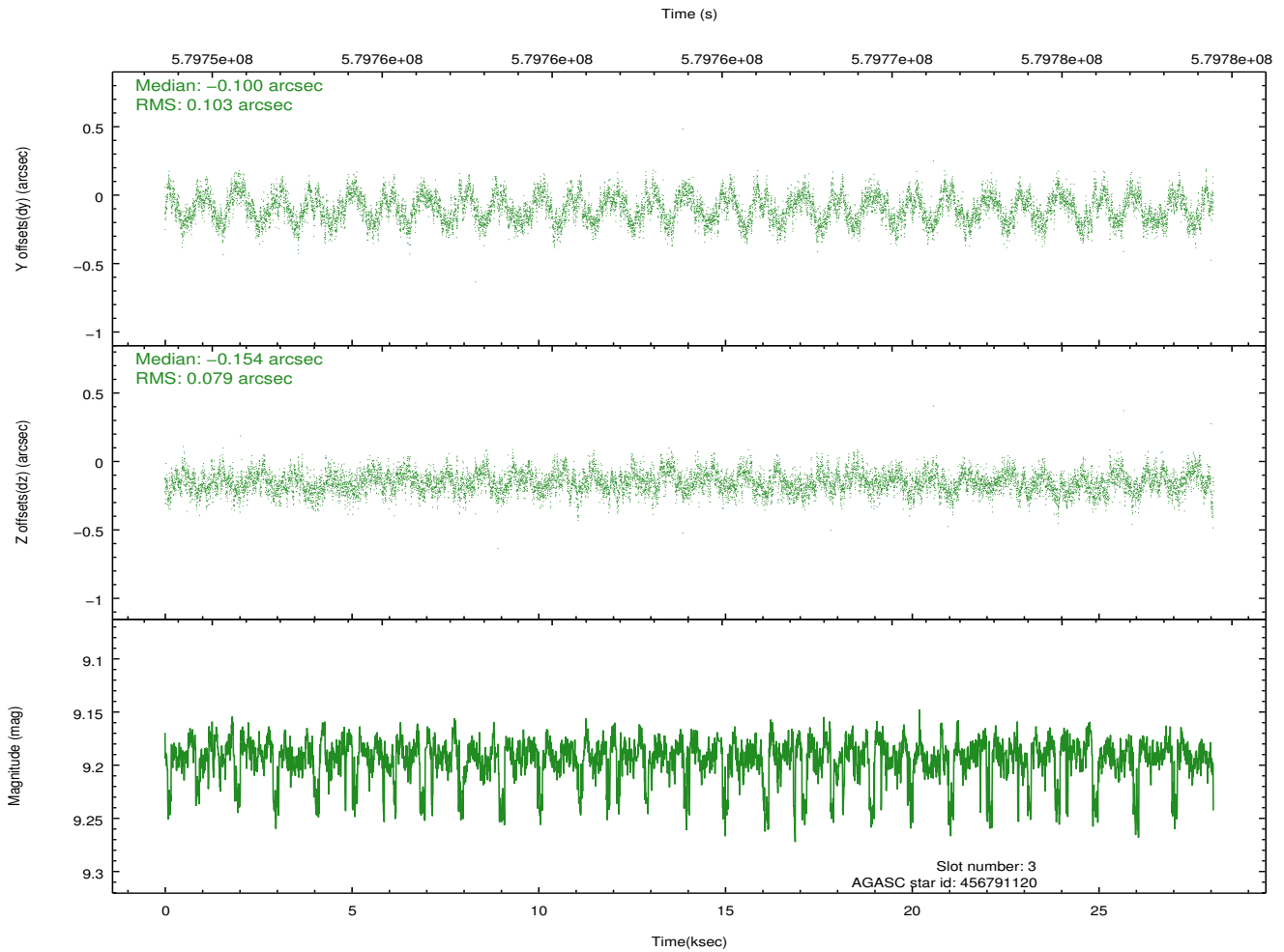
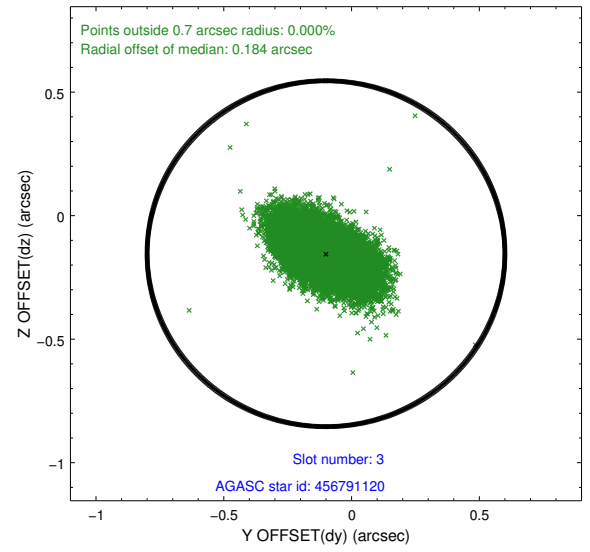
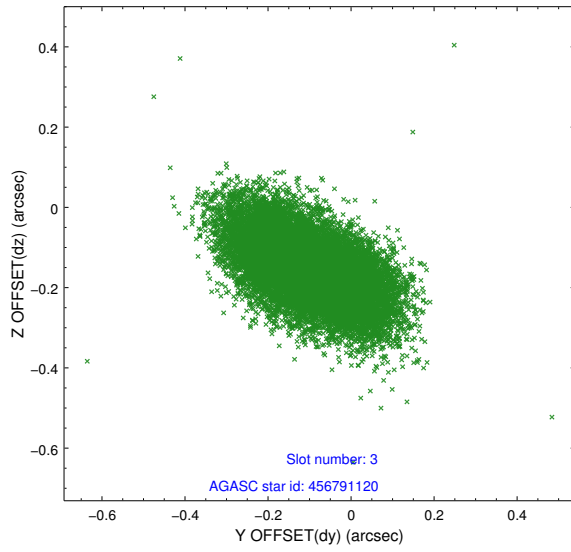


Slot Statistics

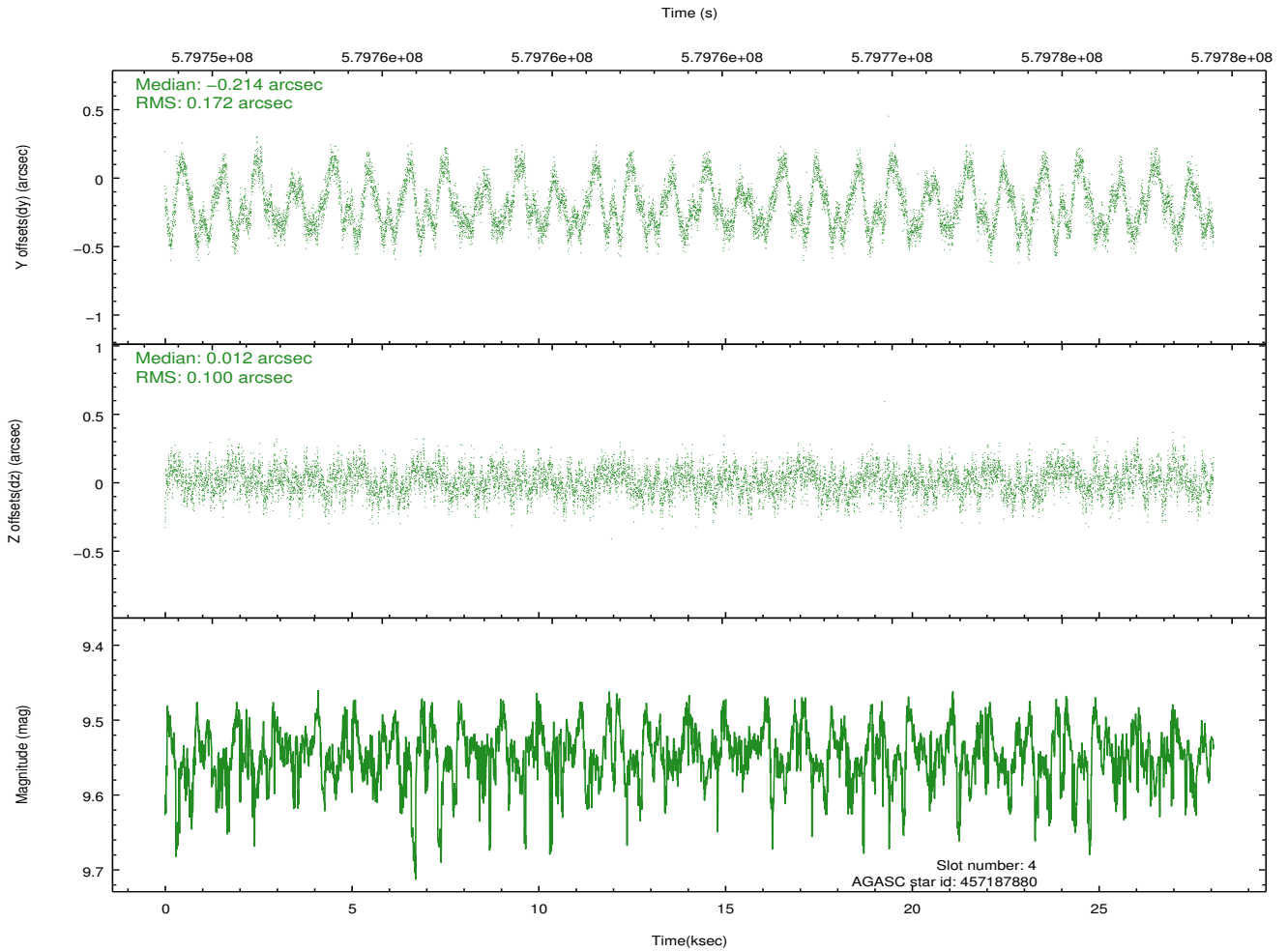
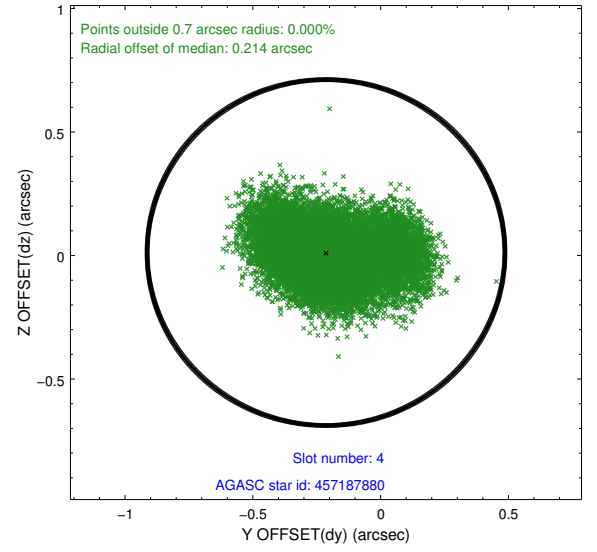
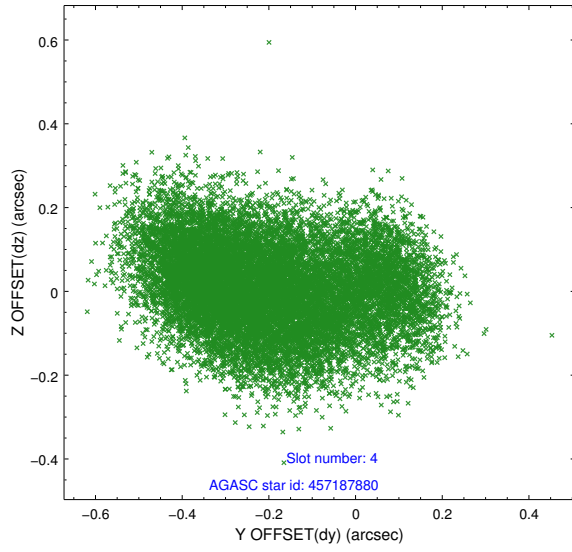
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	6848	-0.145	-0.055	0.016	0.033	0.000000	0.000000	-764.53	-1737.69
1	FID		ACIS-S-4	7.23	6848	0.363	0.084	0.010	0.015	0.000000	0.000000	2149.18	170.88
2	FID		ACIS-S-5	7.24	6848	-0.249	-0.022	0.014	0.042	0.000000	0.000000	-1817.40	164.49
3	GUIDE	used	456791120	9.19	13681	-0.100	-0.154	0.138	0.224	230.769735	49.655289	-2136.44	1821.57
4	GUIDE	used	457187880	9.55	13672	-0.214	0.012	0.213	0.342	229.741751	50.008543	181.39	429.44
5	GUIDE	used	457189032	9.35	13678	0.227	0.271	0.142	0.220	230.763518	50.222392	-2212.69	-219.02
6	GUIDE	used	457189144	9.66	13672	0.144	-0.105	0.194	0.296	229.280109	50.209511	1201.67	-358.06
7	GUIDE	used	456787888	9.30	13678	-0.071	-0.029	0.182	0.279	228.826456	49.750899	2361.09	1217.72

2.4 Star Slots

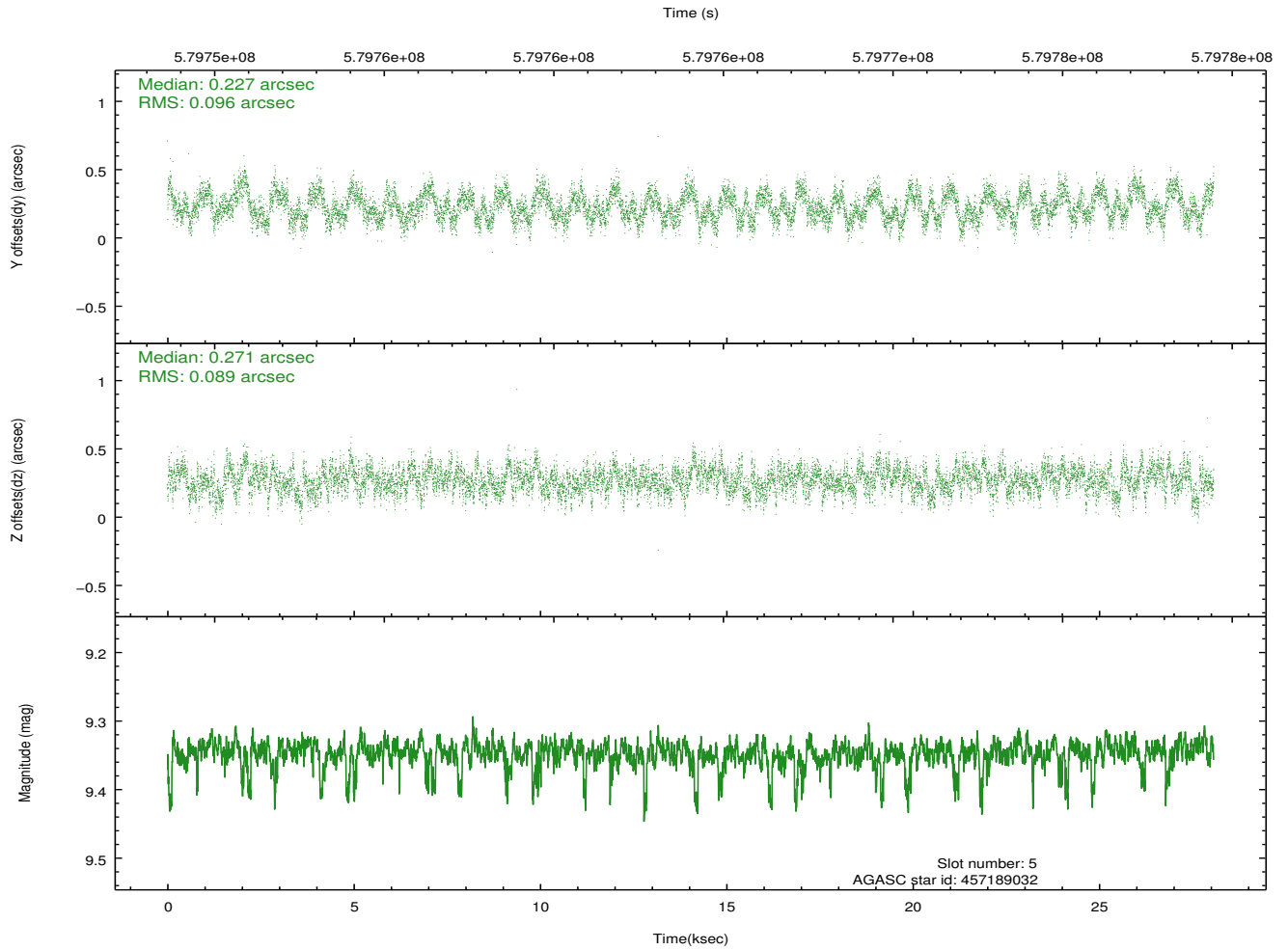
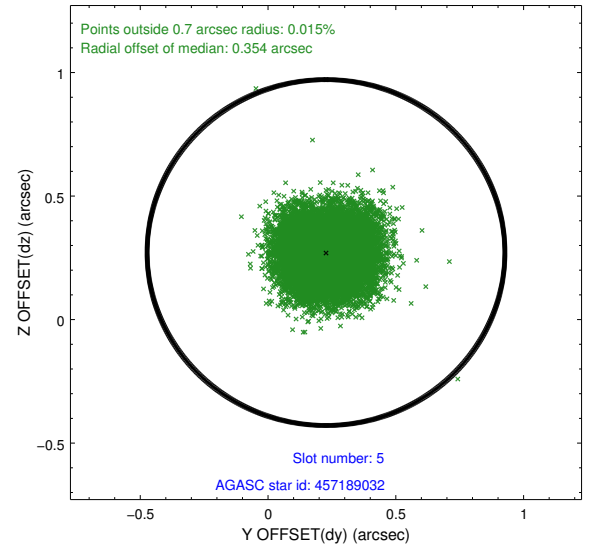
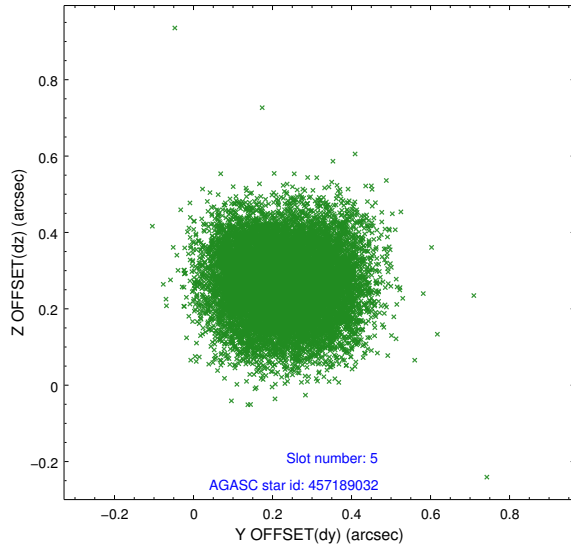
2.4.1 Slot 3



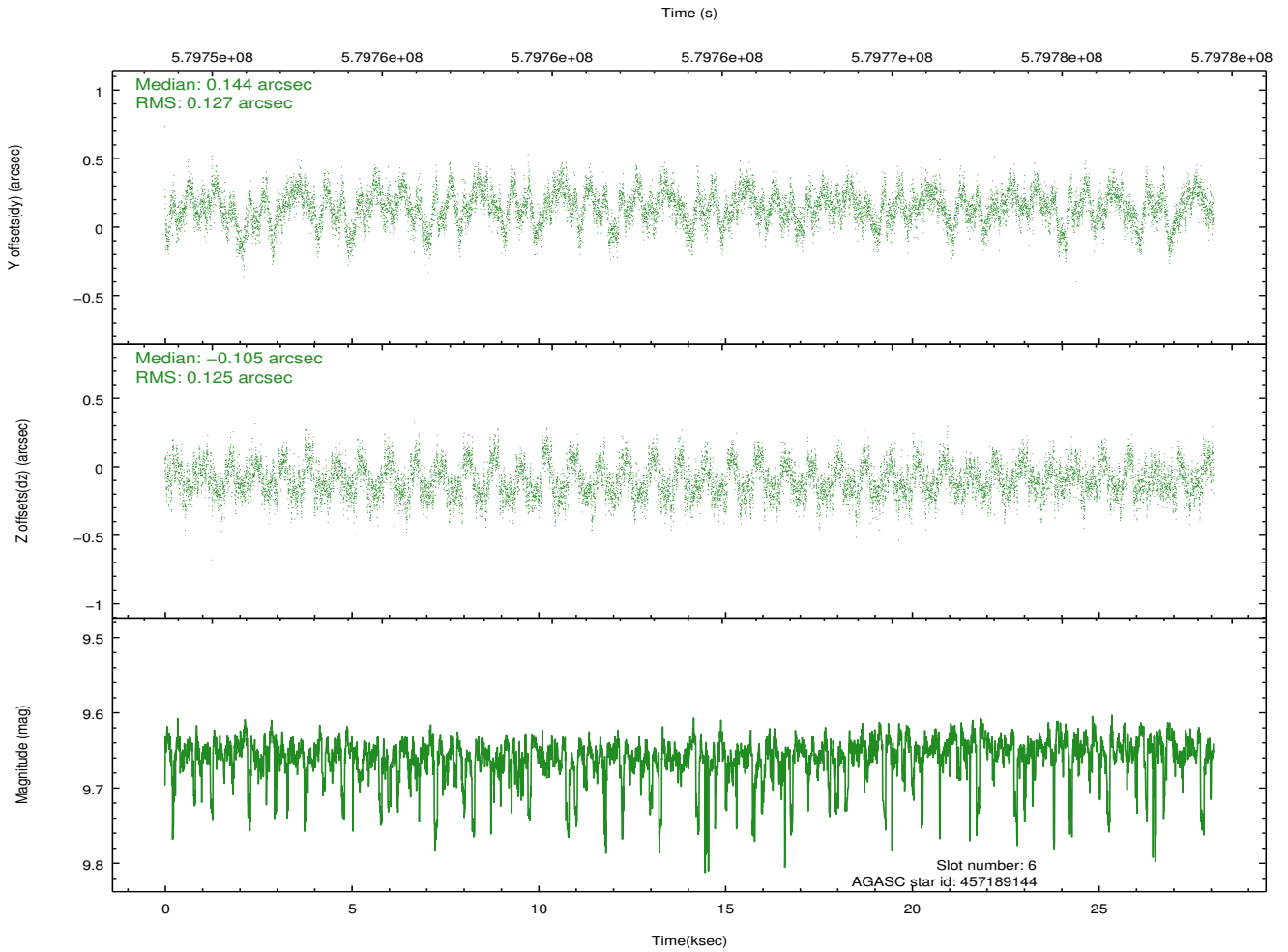
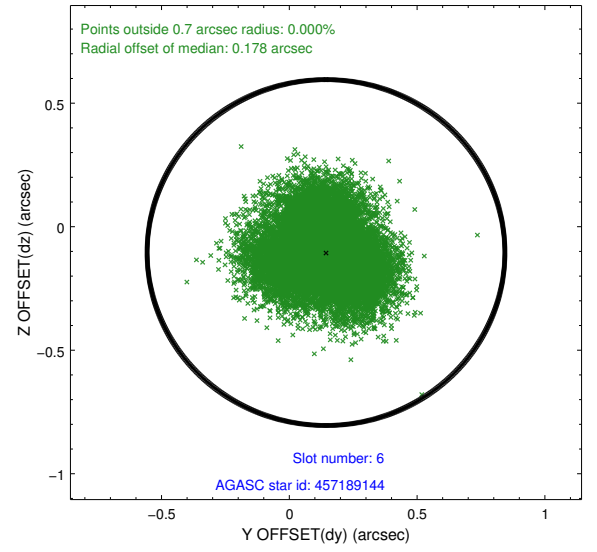
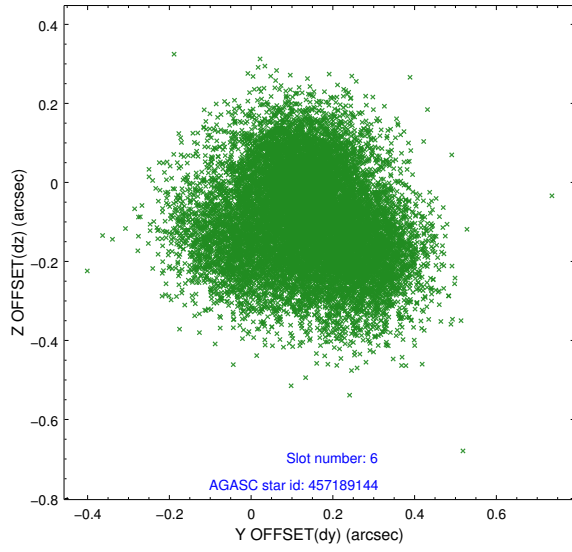
2.4.2 Slot 4



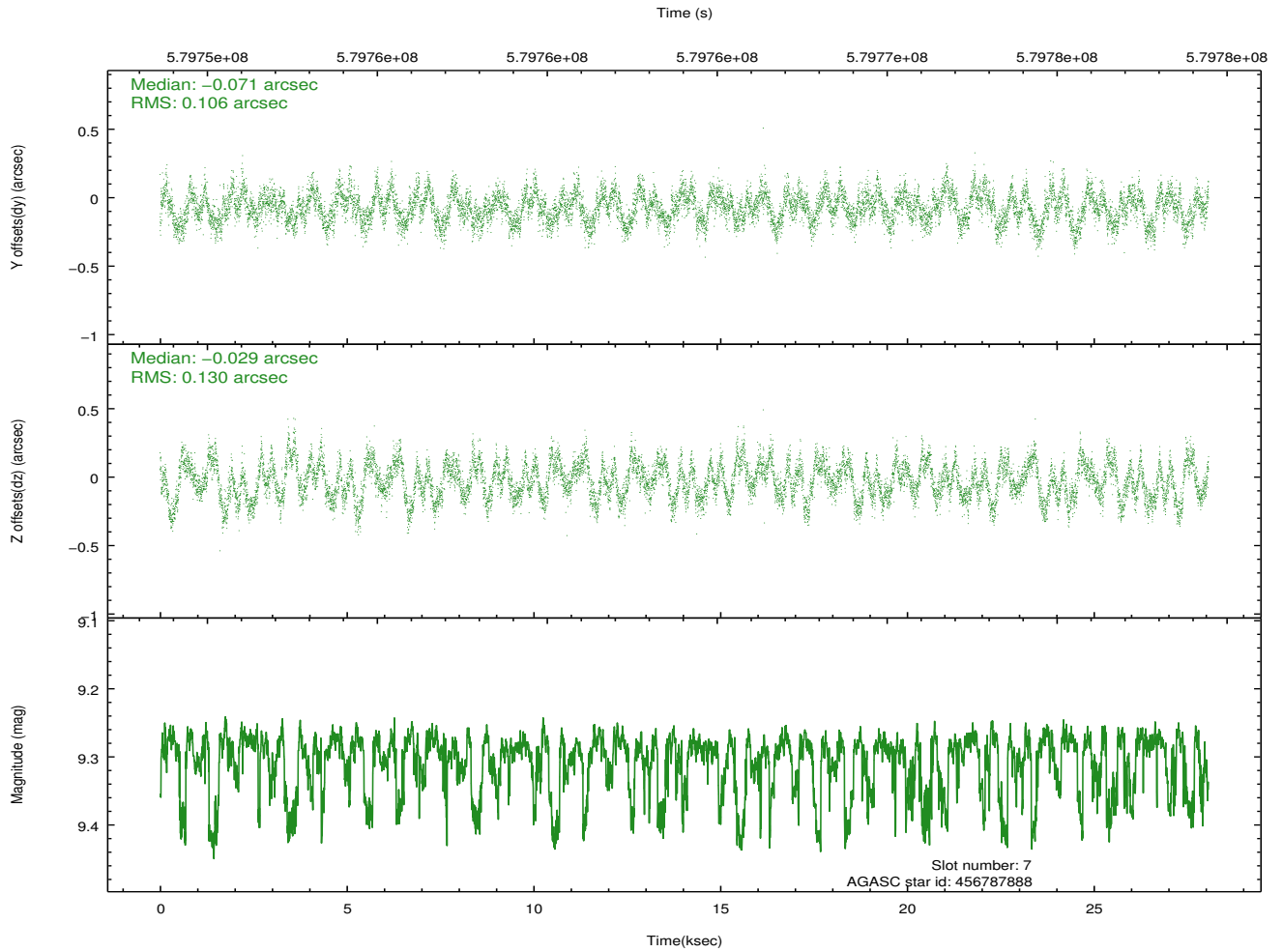
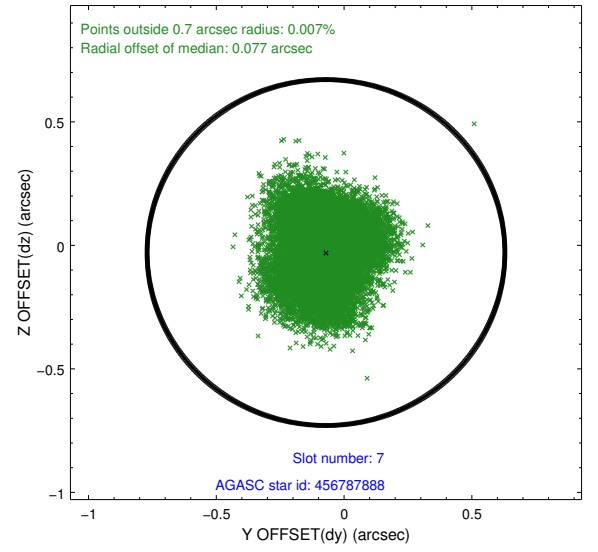
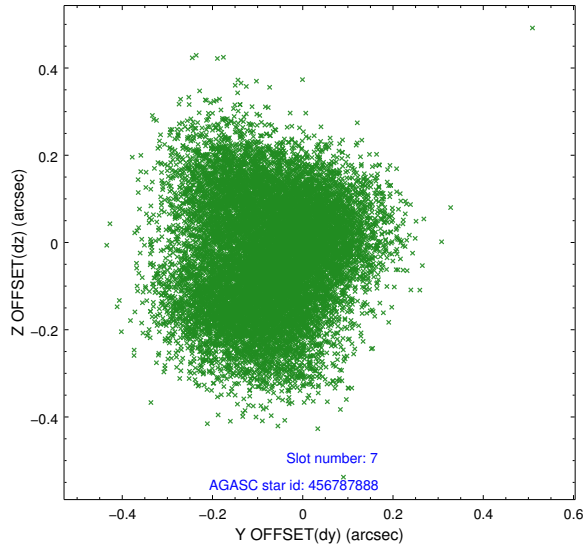
2.4.3 Slot 5



2.4.4 Slot 6

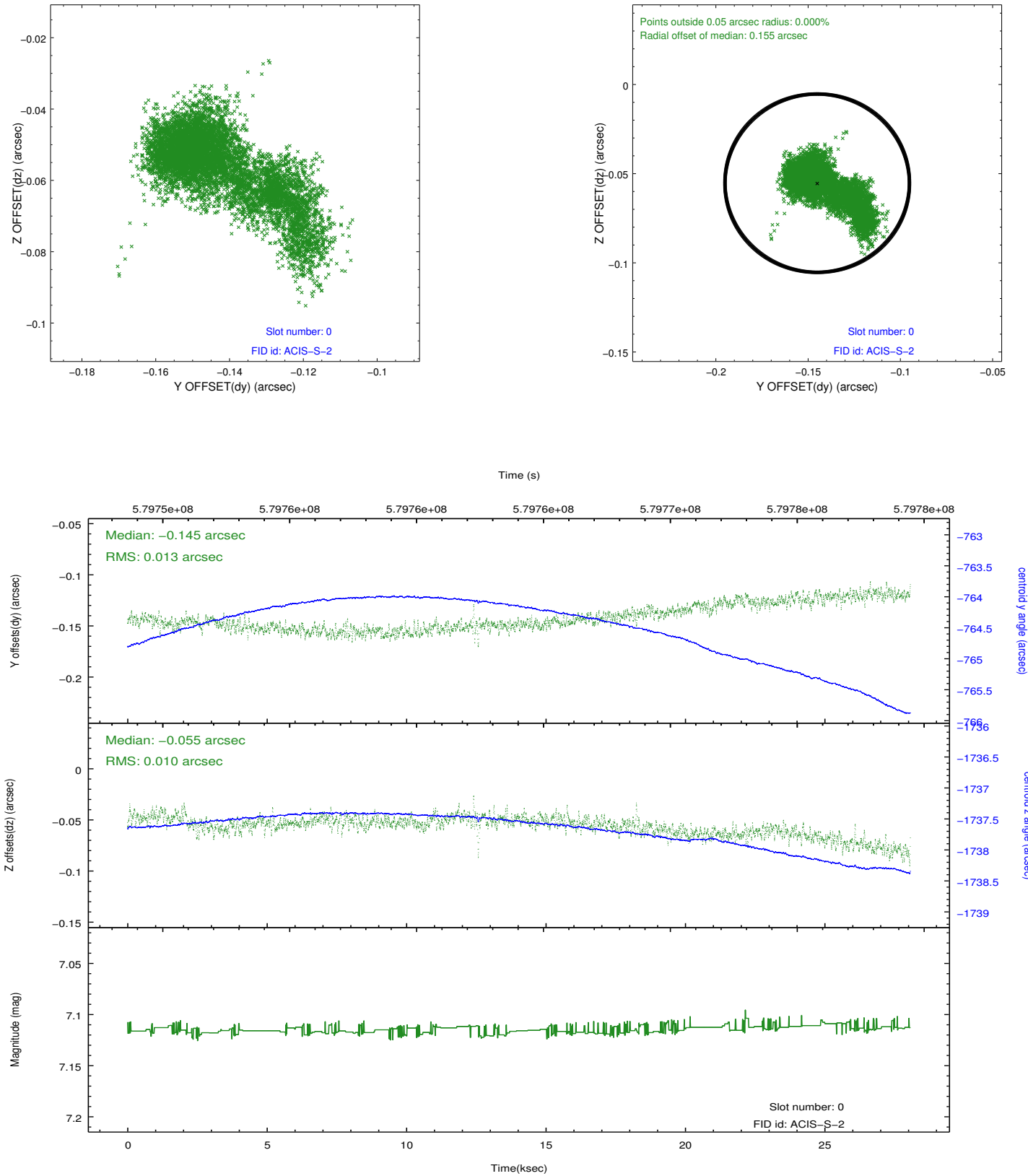


2.4.5 Slot 7

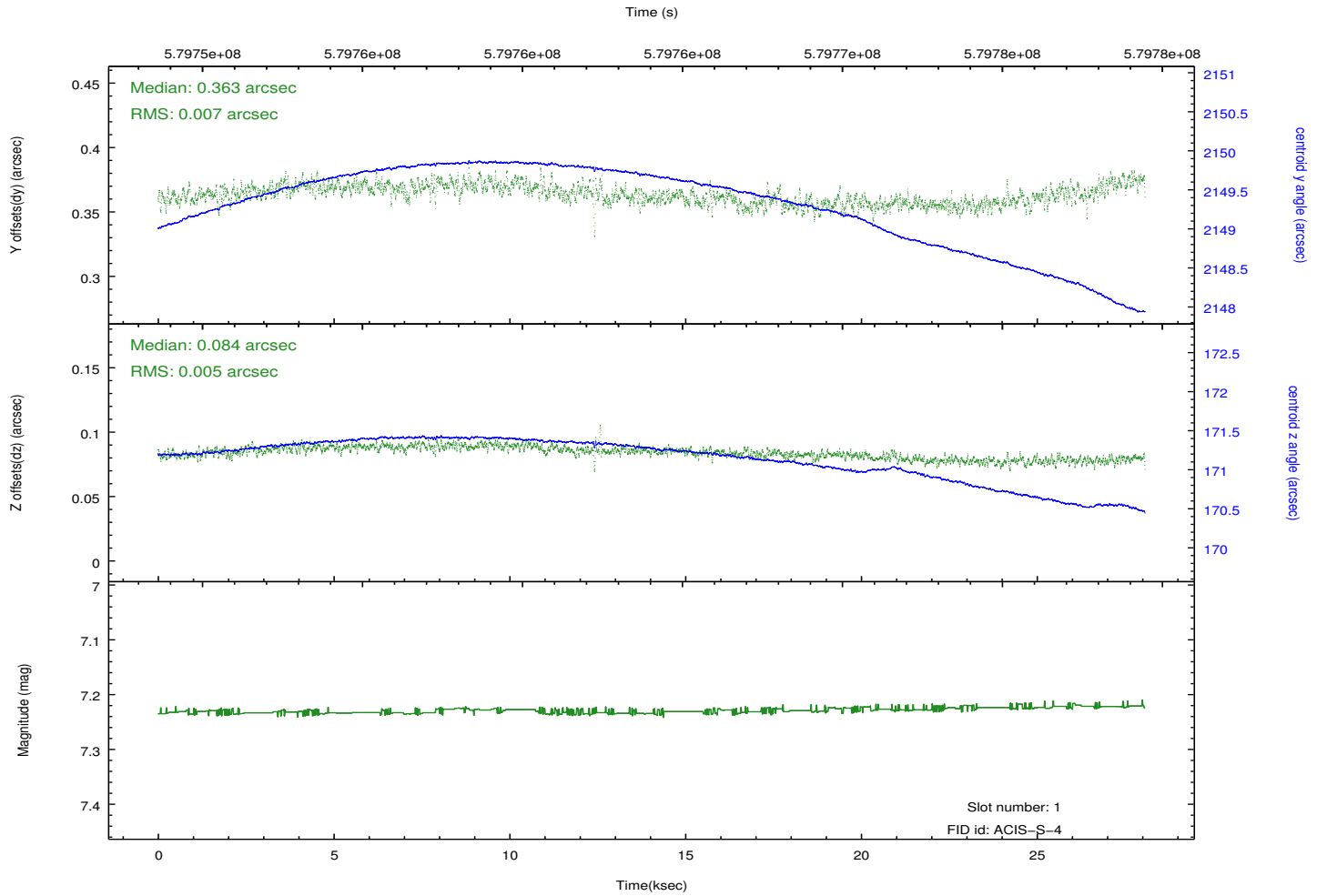
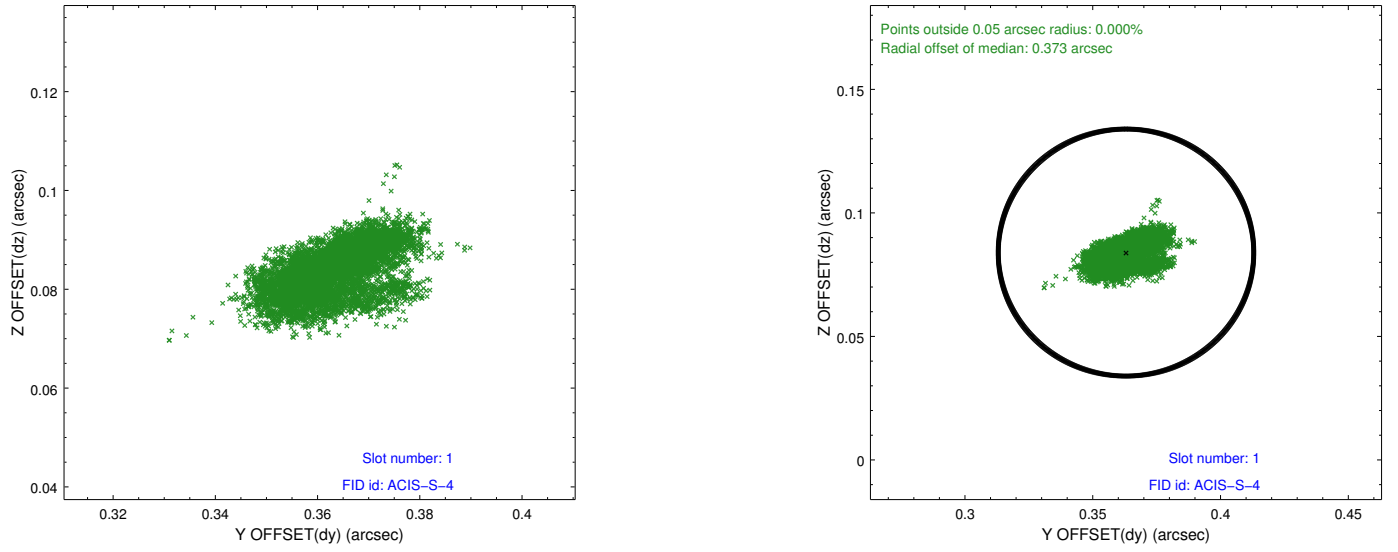


2.5 FID Slots

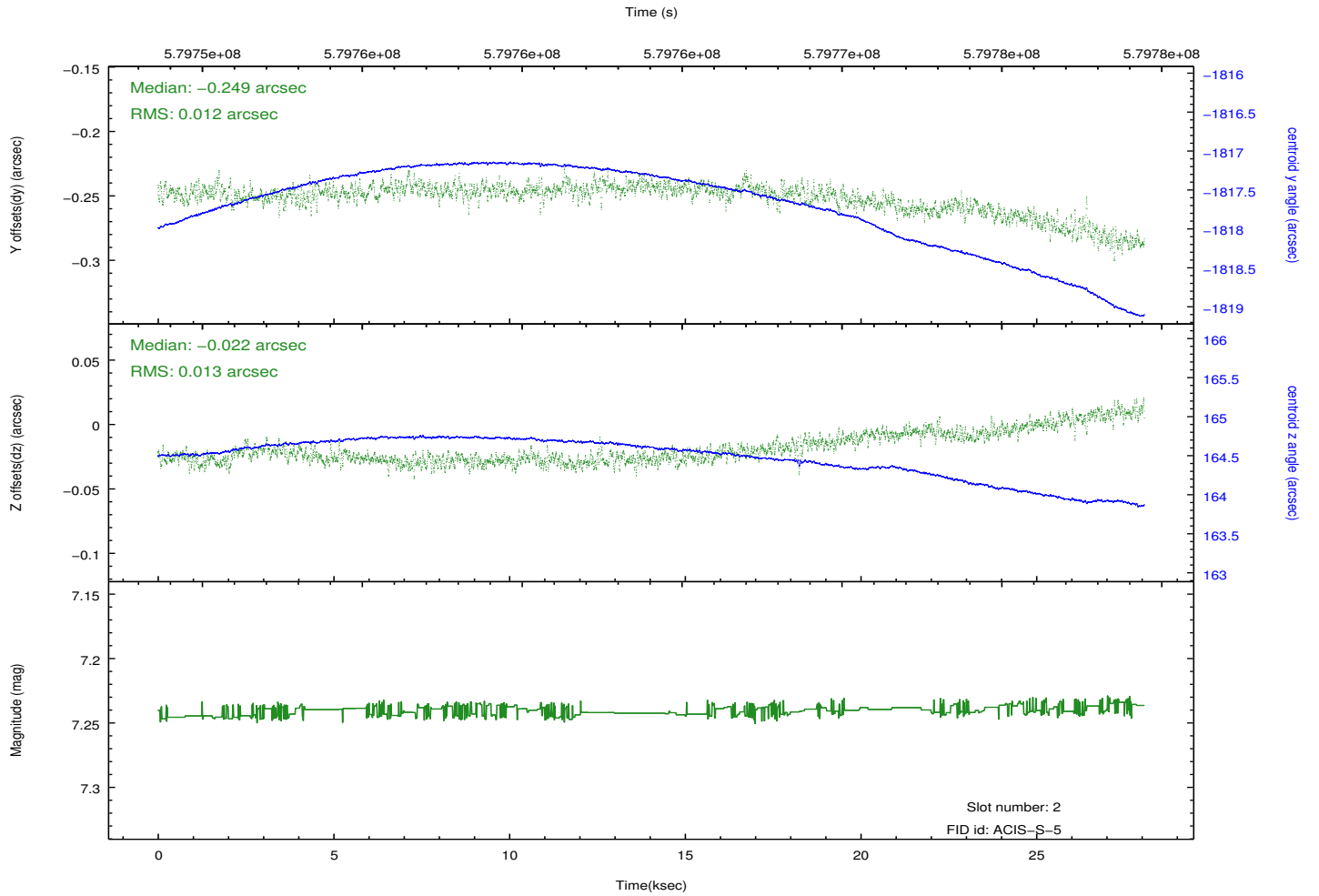
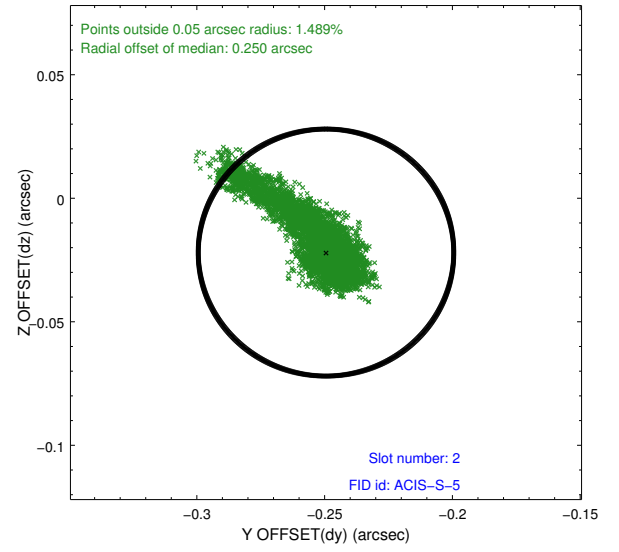
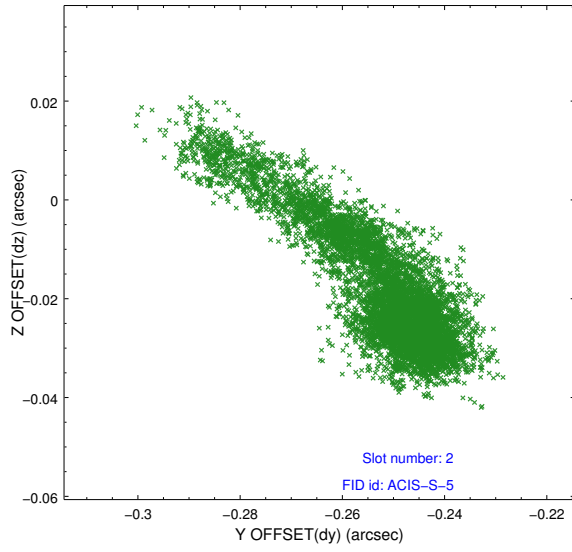
2.5.1 Slot 0



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)	2016.05.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.958880833864

A.2 Comments