

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 16478 - L2 Version 1
Chandra X-Ray Center

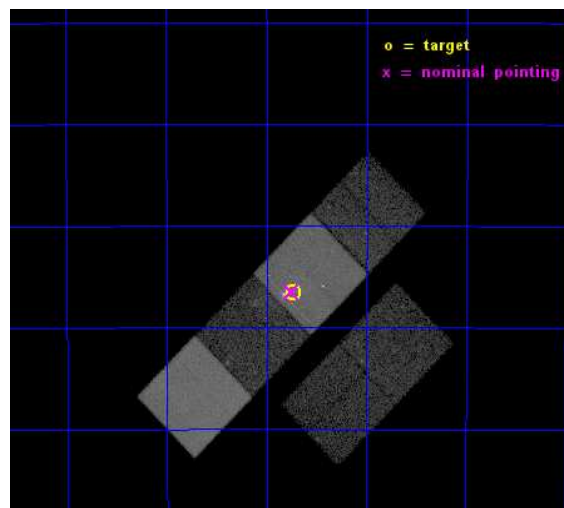
L2 Processing Date : Jan 10 2015

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1 Front

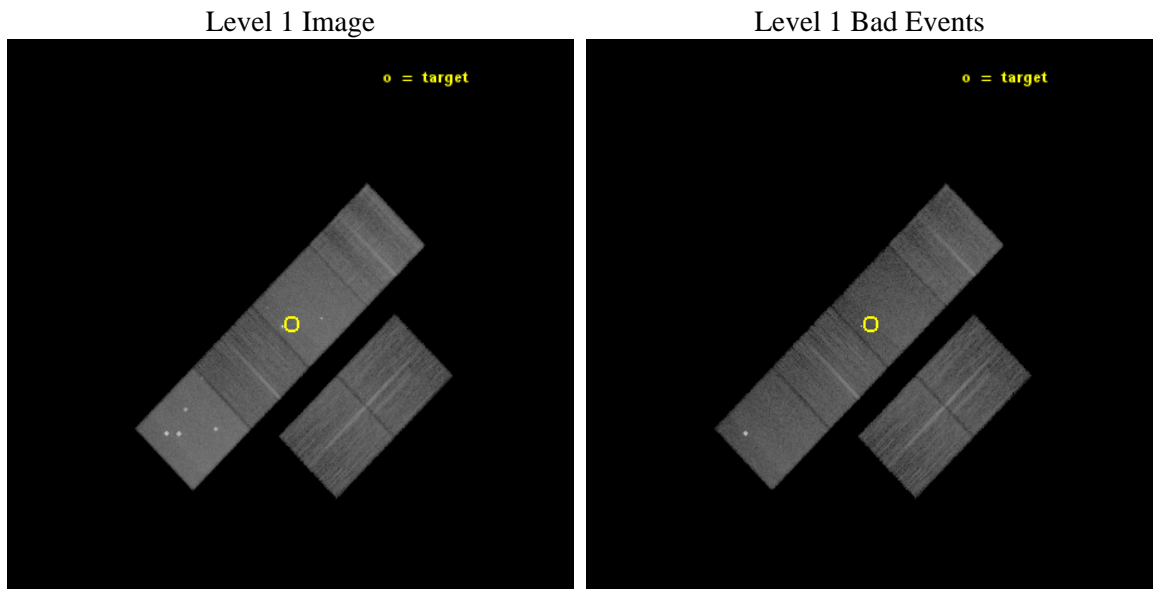
seq_num	702719	Sequence number
obs_id	16478	Observation id
title	Variability and particle acceleration in the jet of Pictor A	Propo
observer	Dr Martin Hardcastle	Principal investigator
object	Pictor A Jet	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	79.933333	Observer's specified target RA [deg]
dec_targ	-45.775556	Observer's specified target Dec [deg]
ra_nom	79.937740482811	Nominal RA [deg]
dec_nom	-45.774927595625	Nominal Dec [deg]
roll_nom	315.15978512492	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27163.665943623	Sum of GTIs [s]
livetime	26819.703249448	Livetime [s]
ontime2	27163.706983566	Sum of GTIs [s]
ontime3	27163.542823553	Sum of GTIs [s]
ontime5	27163.62490356	Sum of GTIs [s]
ontime6	27163.583863616	Sum of GTIs [s]
ontime7	27163.665943623	Sum of GTIs [s]
ontime8	27163.501783609	Sum of GTIs [s]
l2events	246579	Number of level 2 events



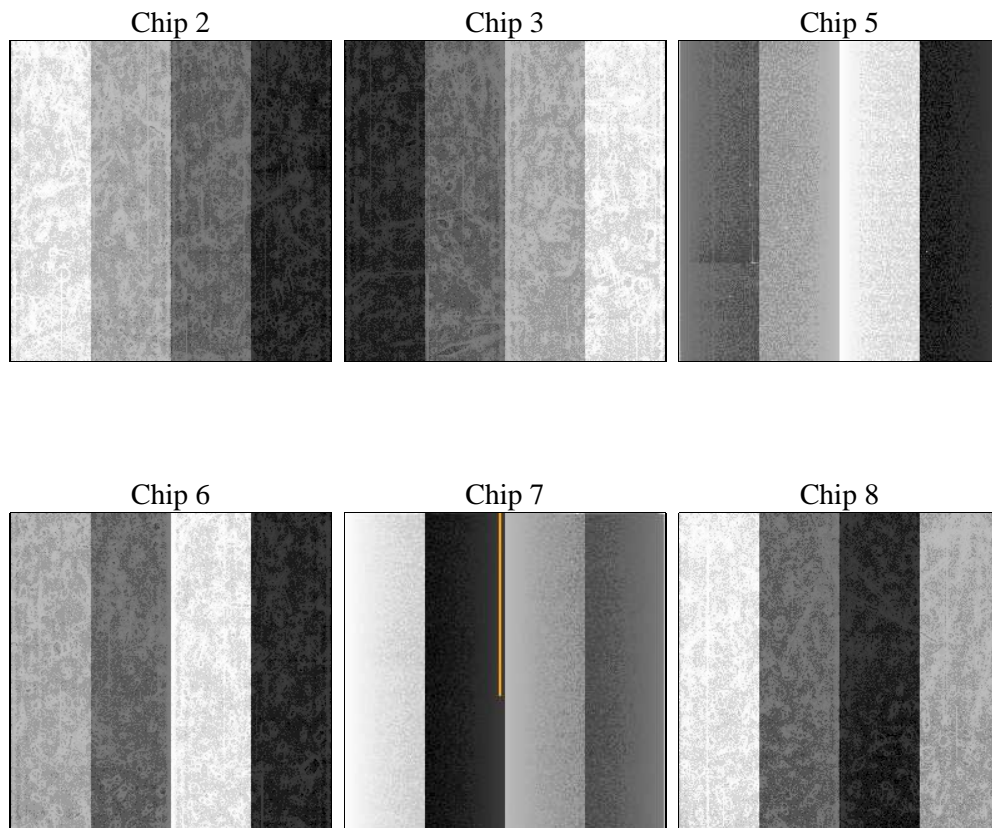
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	27200.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	27163.665943623	Sum of GTIs [s]
caldbver	4.6.5	 	ontime2	27163.706983566	Sum of GTIs [s]
date	2015-01-10T05:55:18	Date and time of file creation	ontime3	27163.542823553	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	27163.62490356	Sum of GTIs [s]
			ontime6	27163.583863616	Sum of GTIs [s]
			ontime7	27163.665943623	Sum of GTIs [s]
			ontime8	27163.501783609	Sum of GTIs [s]
			l1events	1020598	Number of level 1 events

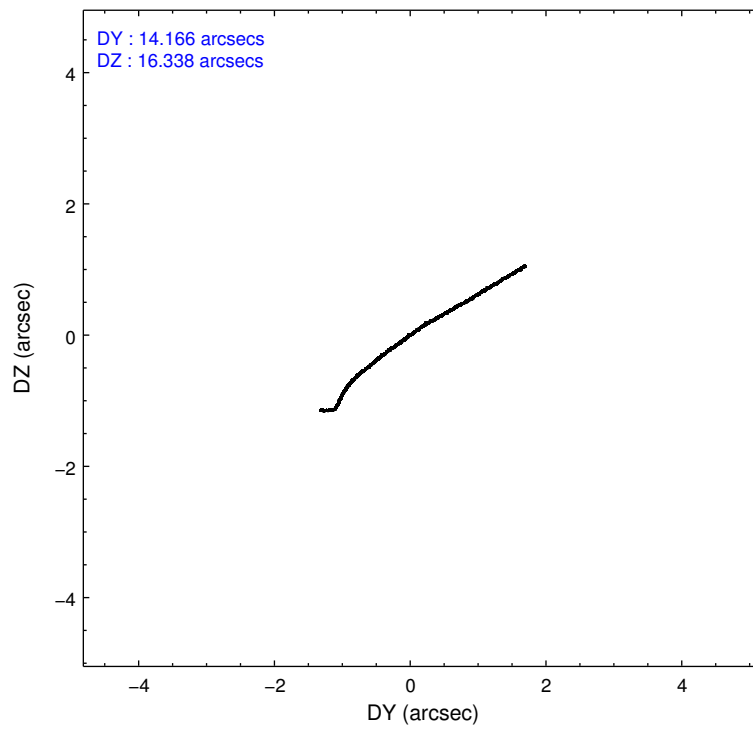
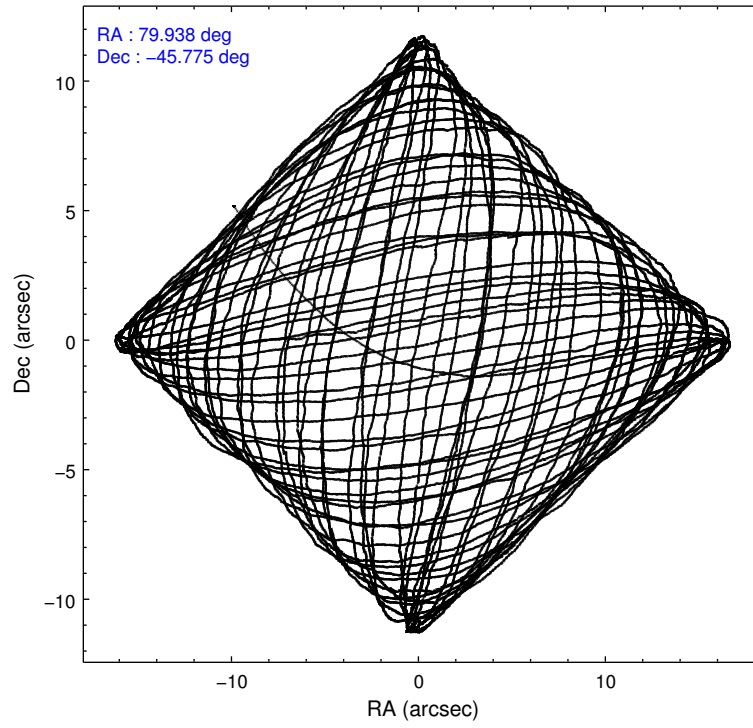
2.1.4 Events

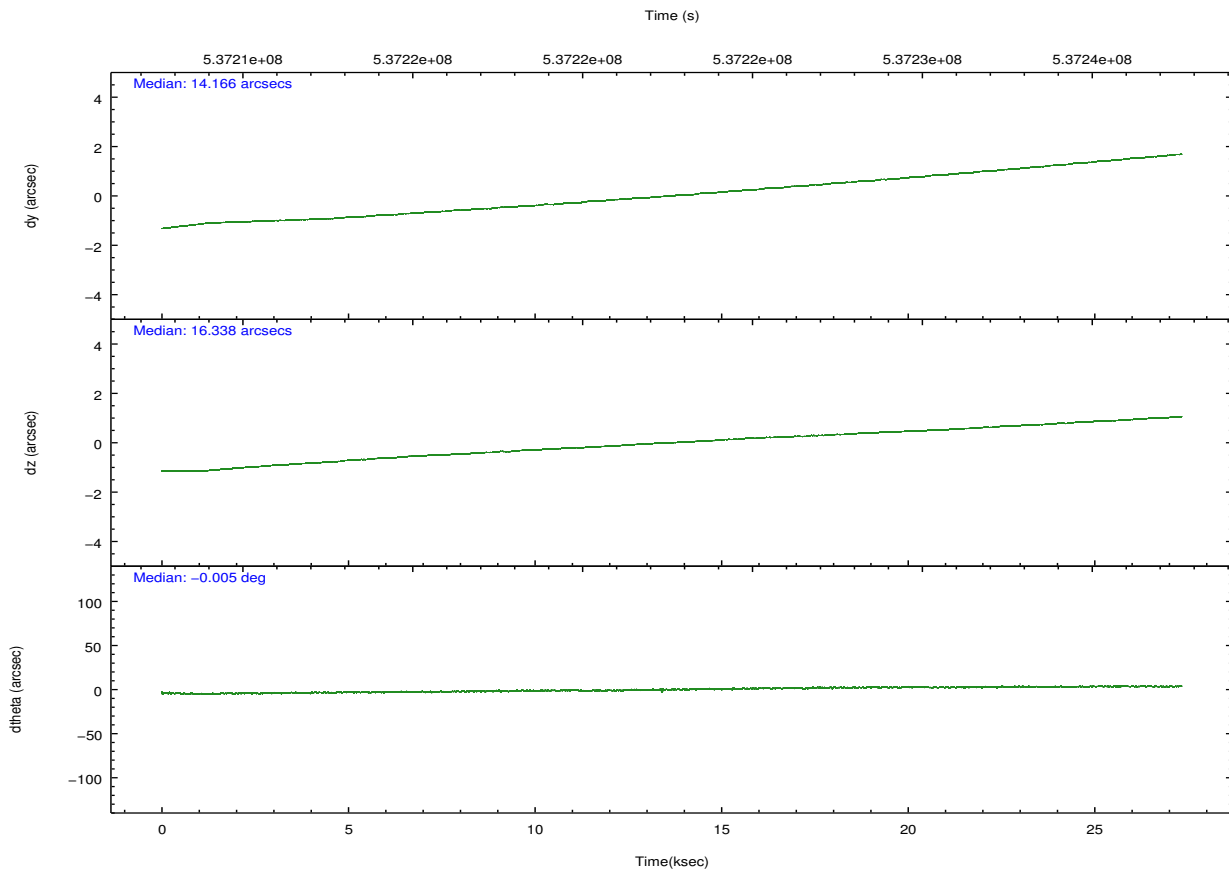
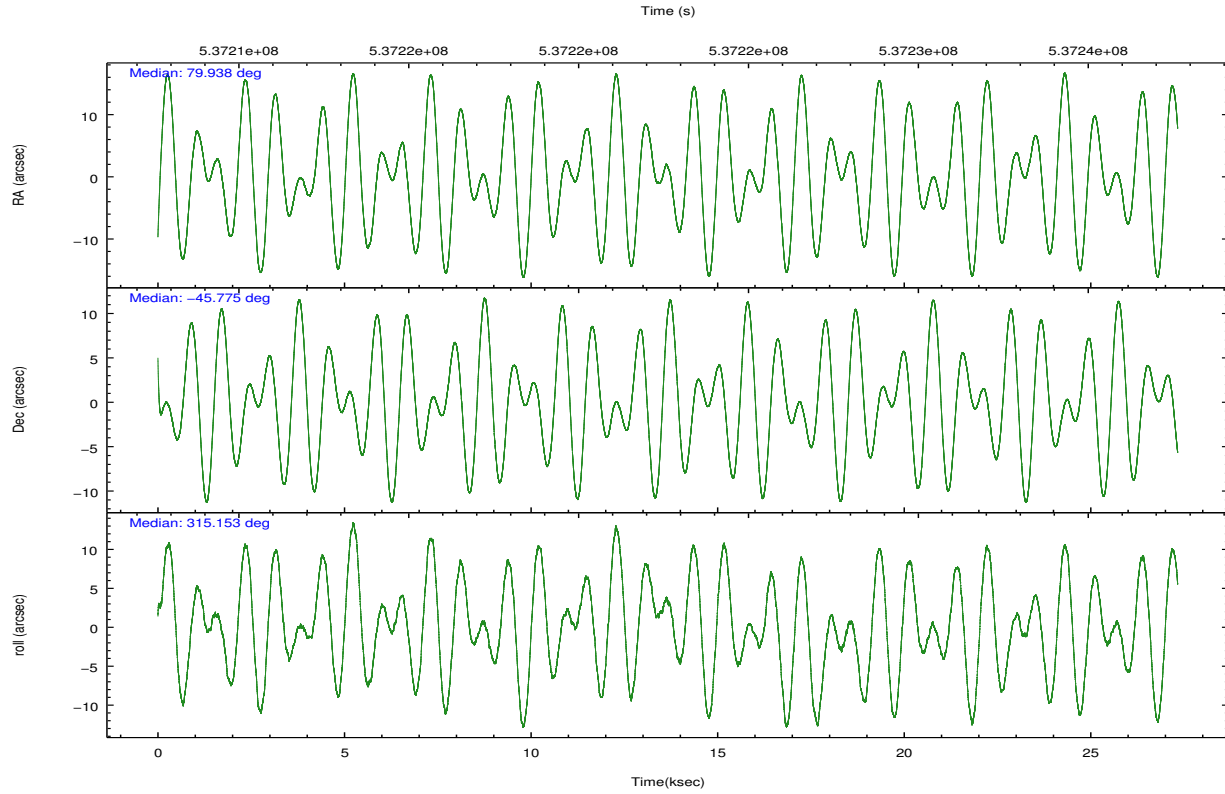
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	135730	128125	239179	136434	201784	179346	grade 0 events	5285	5100	17807	6401	9334	13448
rejected events	120474	113446	122430	118916	110301	131894		3%	3%	7%	4%	4%	7%
rejected %	88%	88%	51%	87%	54%	73%	grade 1 events	73	71	435	76	449	119
								0%	0%	0%	0%	0%	0%
							grade 2 events	3751	3308	34129	3949	19280	11549
								2%	2%	14%	2%	9%	6%
							grade 3 events	1541	1589	3370	1649	7709	4887
								1%	1%	1%	1%	3%	2%
							grade 4 events	1542	1546	3438	1660	7664	4585
								1%	1%	1%	1%	3%	2%
							grade 5 events	6097	7039	16618	7027	19883	10437
								4%	5%	6%	5%	9%	5%
							grade 6 events	3142	3139	58032	3865	47525	12989
								2%	2%	24%	2%	23%	7%
							grade 7 events	114299	106333	105350	111807	89940	121332
								84%	82%	44%	81%	44%	67%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	79.899539	79.93774048281091	CCD I2 on	O3	Y
[deg] Pointing Dec	-45.768250	-45.77492759562539	CCD I3 on	O2	Y
[deg] Pointing Roll	314.975789	315.1597851249157	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O4	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	O1	Y
[s] Observation start time (MET)	537209089.184000	537207829.13133	CCD S5 on	N	N
Observation start date	2015-01-09T16:43:42	2015-01-09T16:23:49	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	537236289.184000	537237239.97047	On-chip summing requested	N	N
Observation end date	2015-01-10T00:17:02	2015-01-10T00:33:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





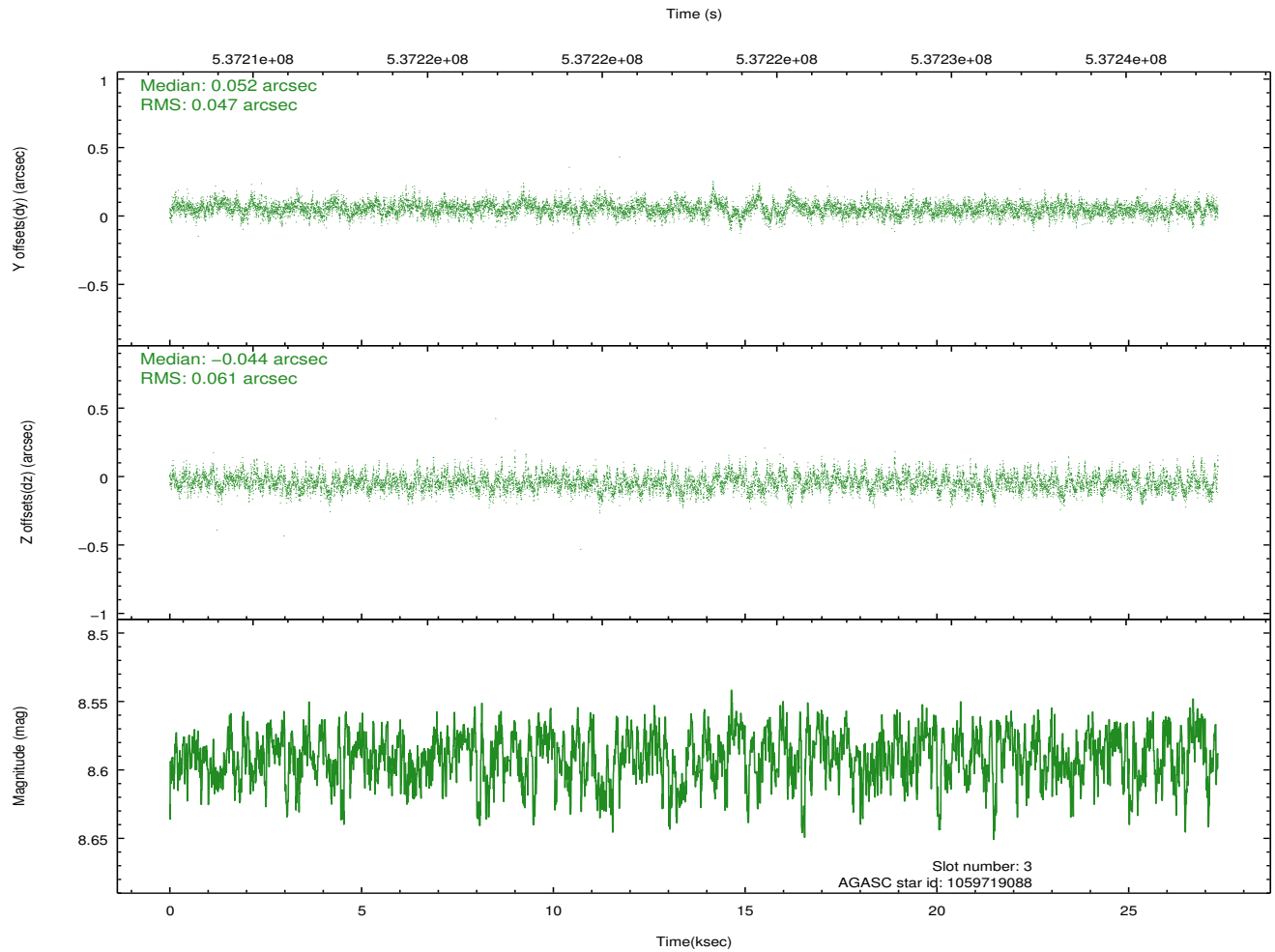
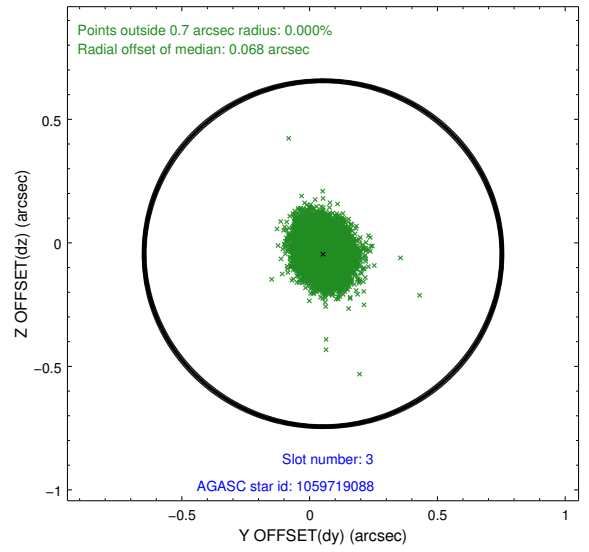
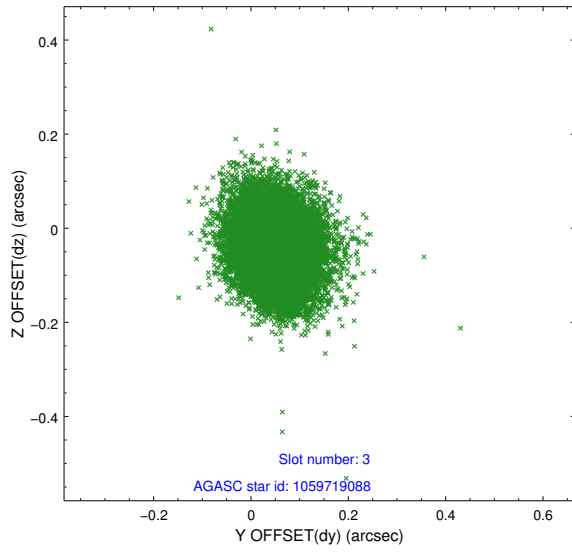
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.07	6666	0.067	-0.063	0.013	0.021	0.000000	0.000000	928.91	-1733.42
1	FID		ACIS-S-4	7.07	6666	0.231	0.017	0.015	0.035	0.000000	0.000000	2146.52	170.73
2	FID		ACIS-S-5	7.09	6666	-0.326	0.060	0.016	0.046	0.000000	0.000000	-1820.23	164.45
3	GUIDE	used	1059719088	8.59	13332	0.052	-0.044	0.080	0.135	80.358941	-45.341185	-263.98	1906.84
4	GUIDE	used	1059722304	7.52	13329	-0.051	0.310	0.087	0.140	79.157586	-45.913736	-936.56	-1690.46
5	GUIDE	used	1059725312	8.60	13324	0.201	-0.073	0.079	0.129	79.636160	-45.090752	-2197.59	1249.25
6	GUIDE	used	1059720720	7.52	13332	0.021	0.025	0.110	0.181	80.088736	-46.563710	2357.47	-1692.74
7	GUIDE	used	1059718384	7.82	13331	-0.232	-0.232	0.100	0.152	80.663676	-45.411103	461.74	2268.41

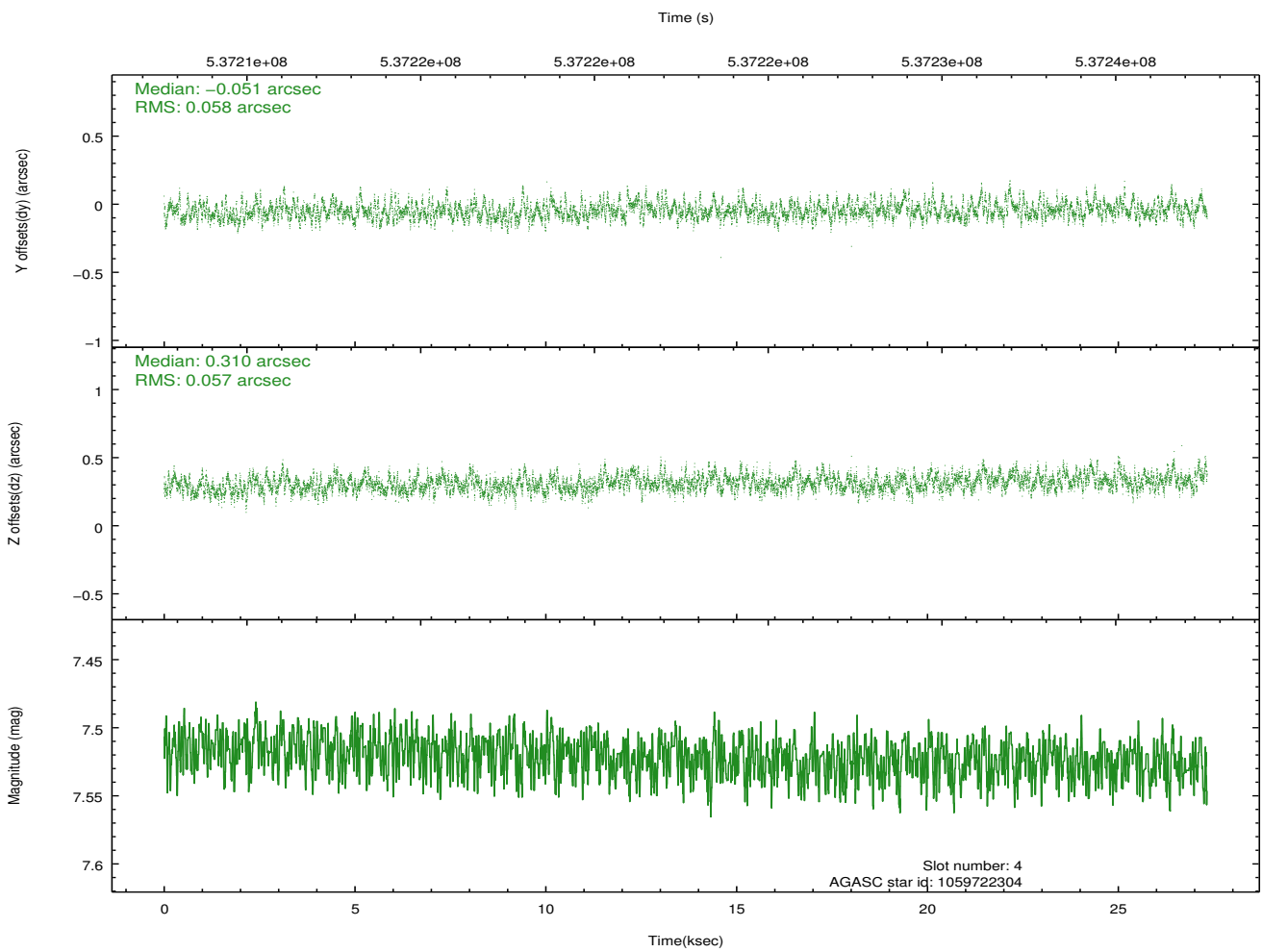
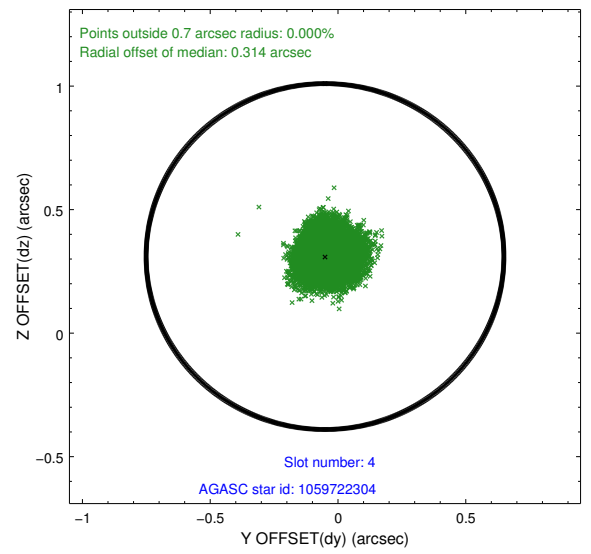
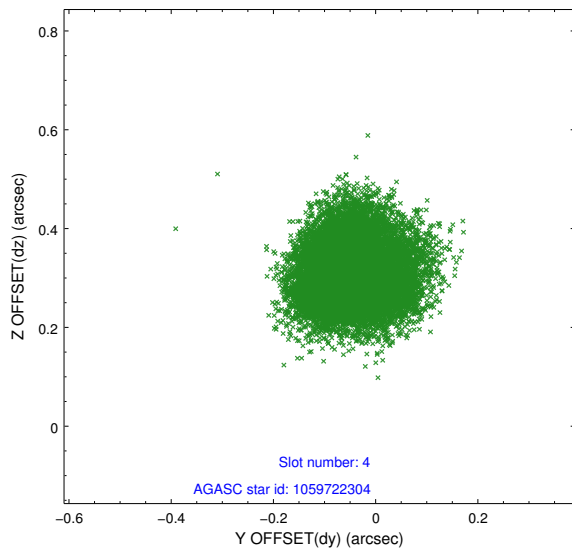
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2.4 Star Slots

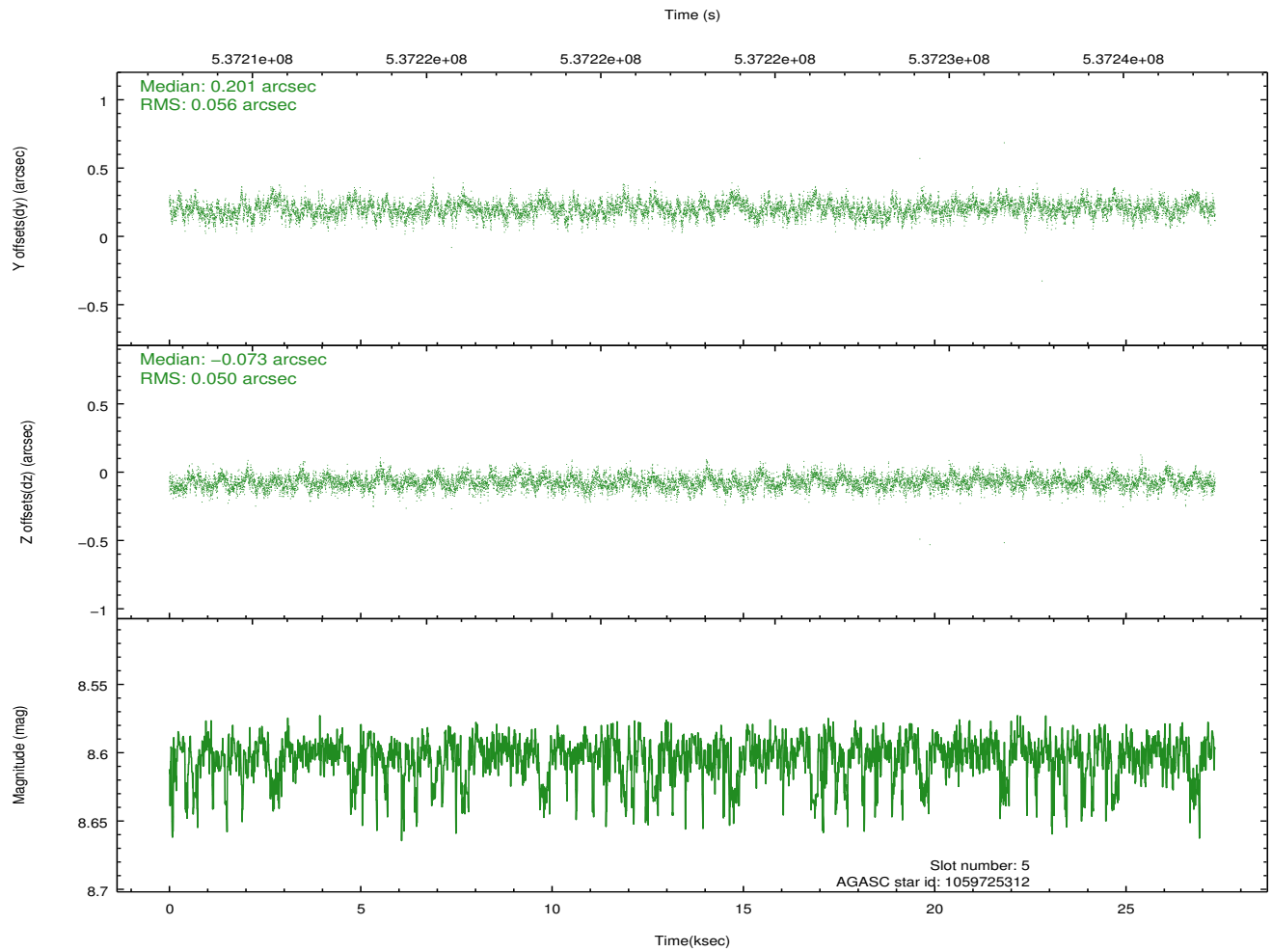
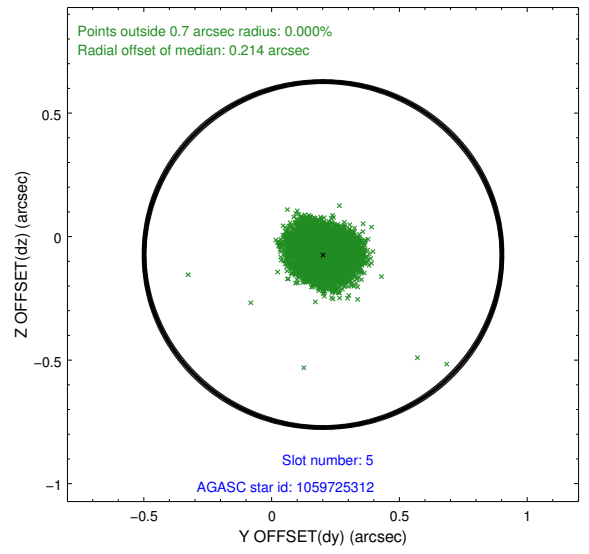
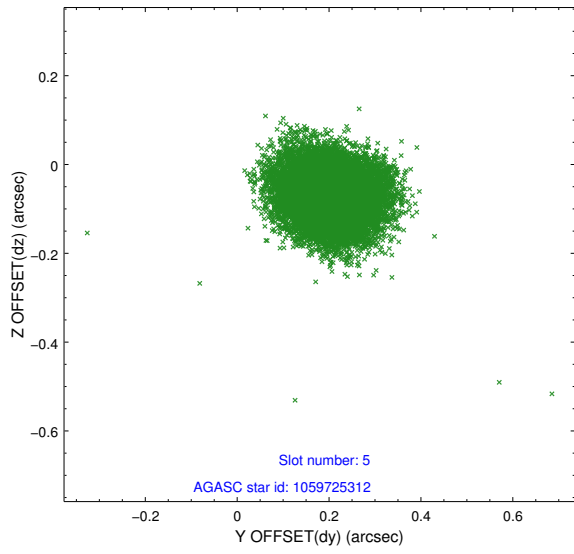
2.4.1 Slot 3



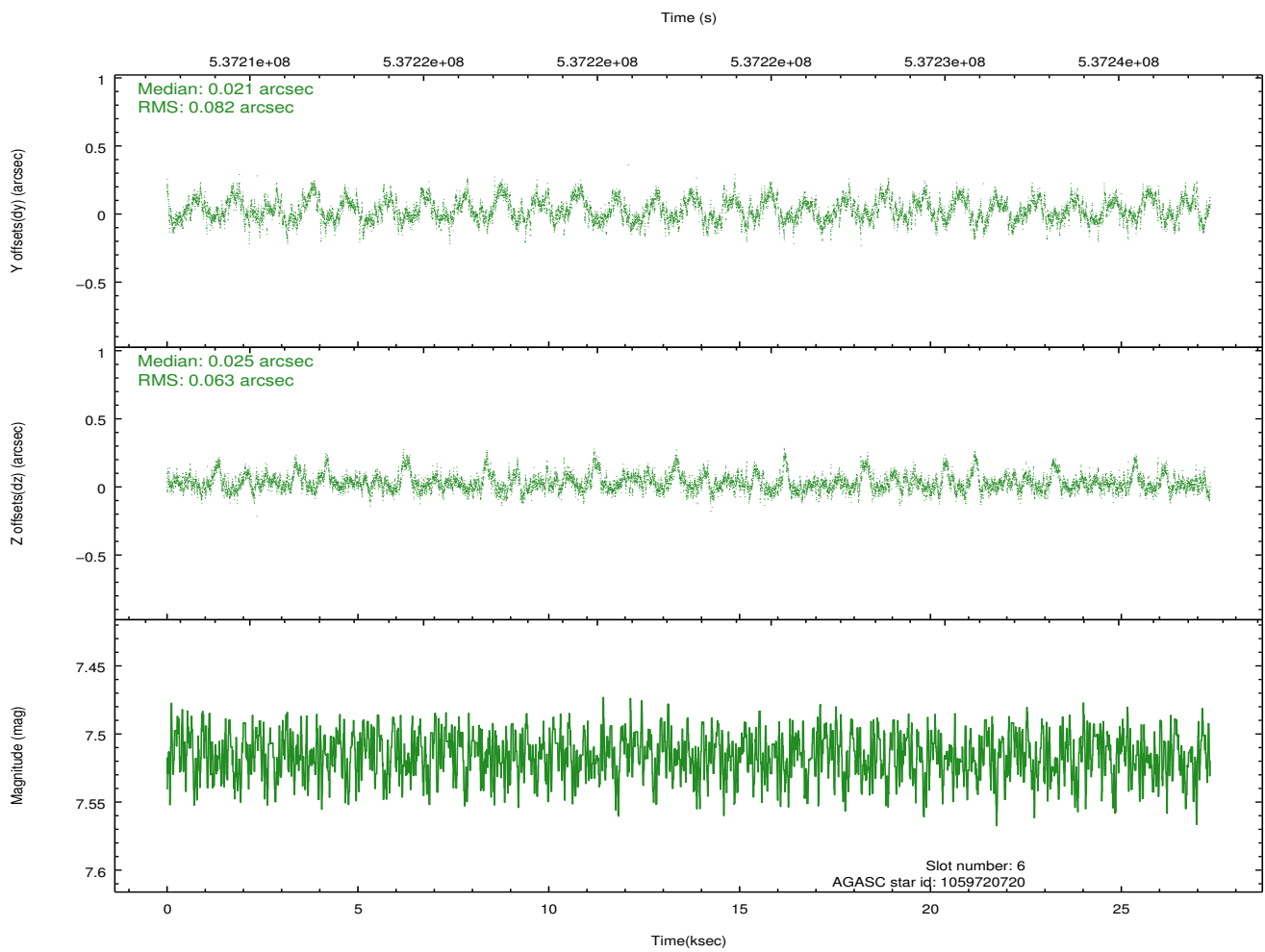
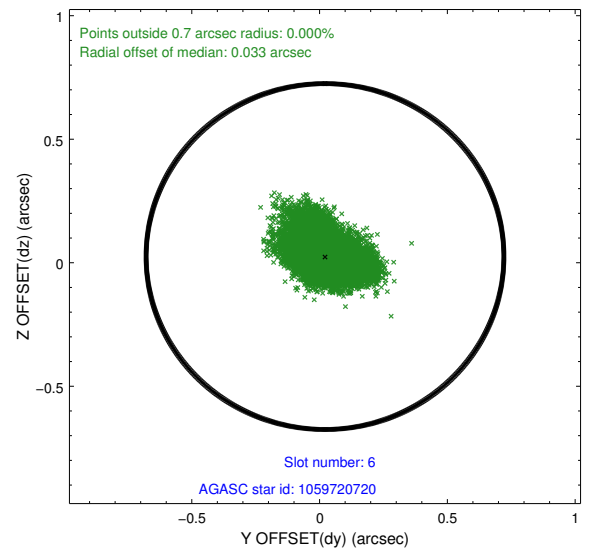
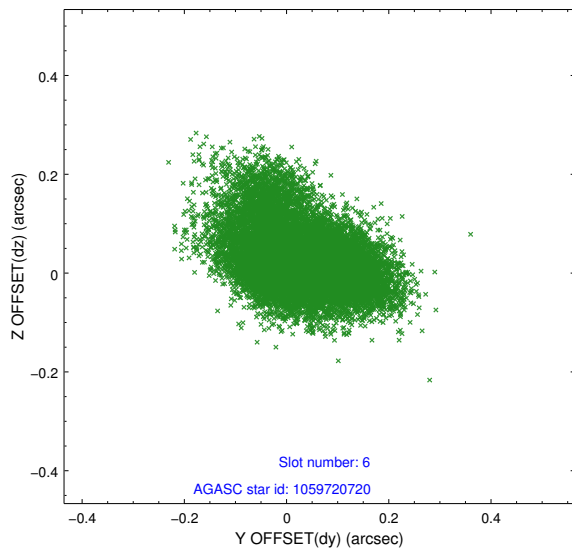
2.4.2 Slot 4



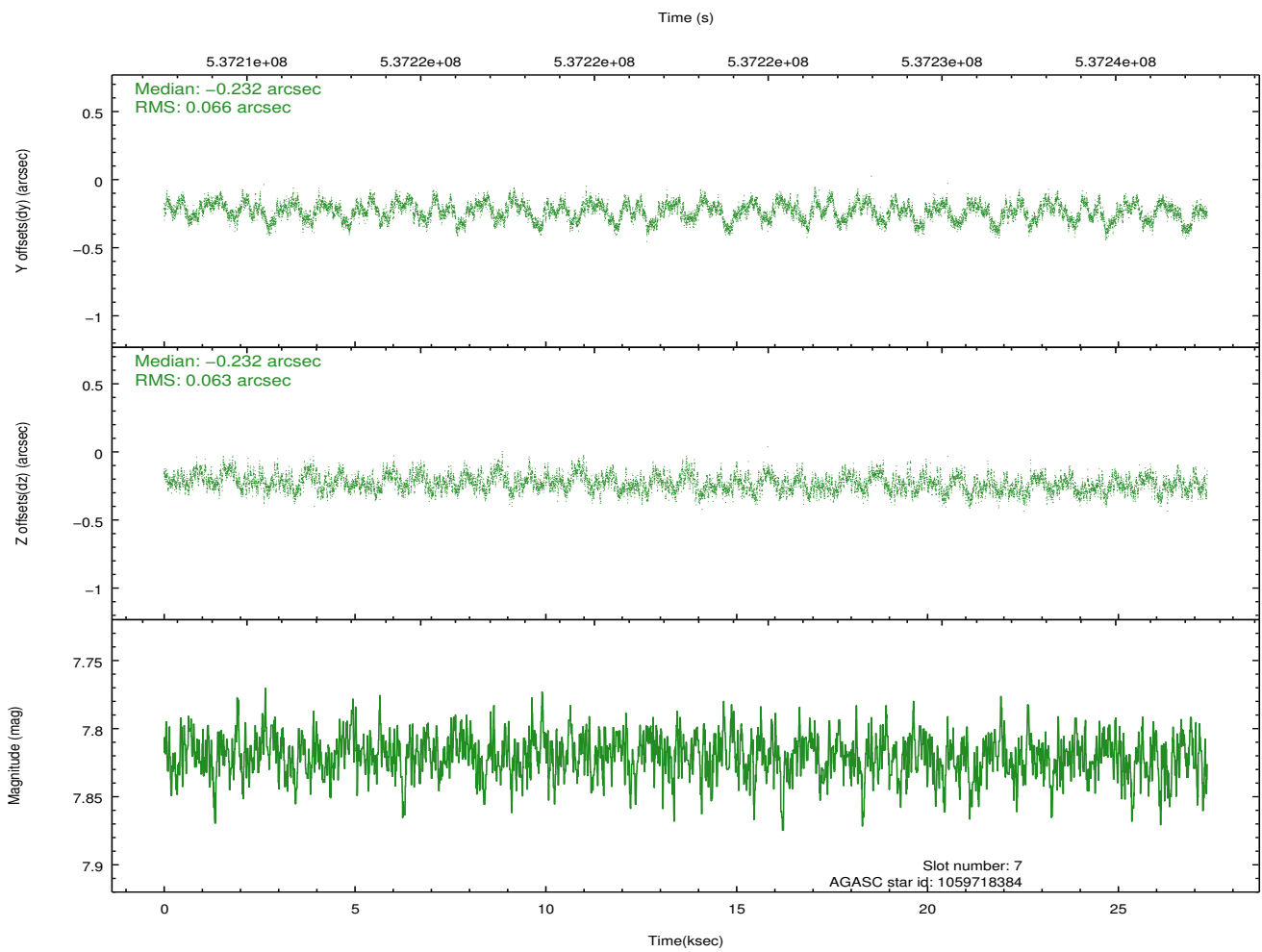
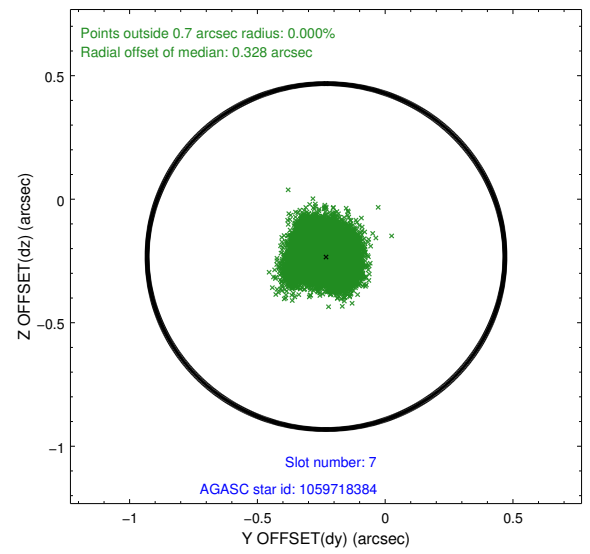
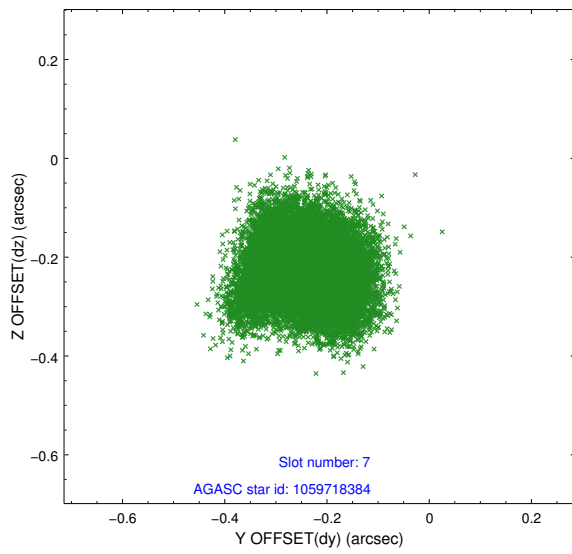
2.4.3 Slot 5



2.4.4 Slot 6

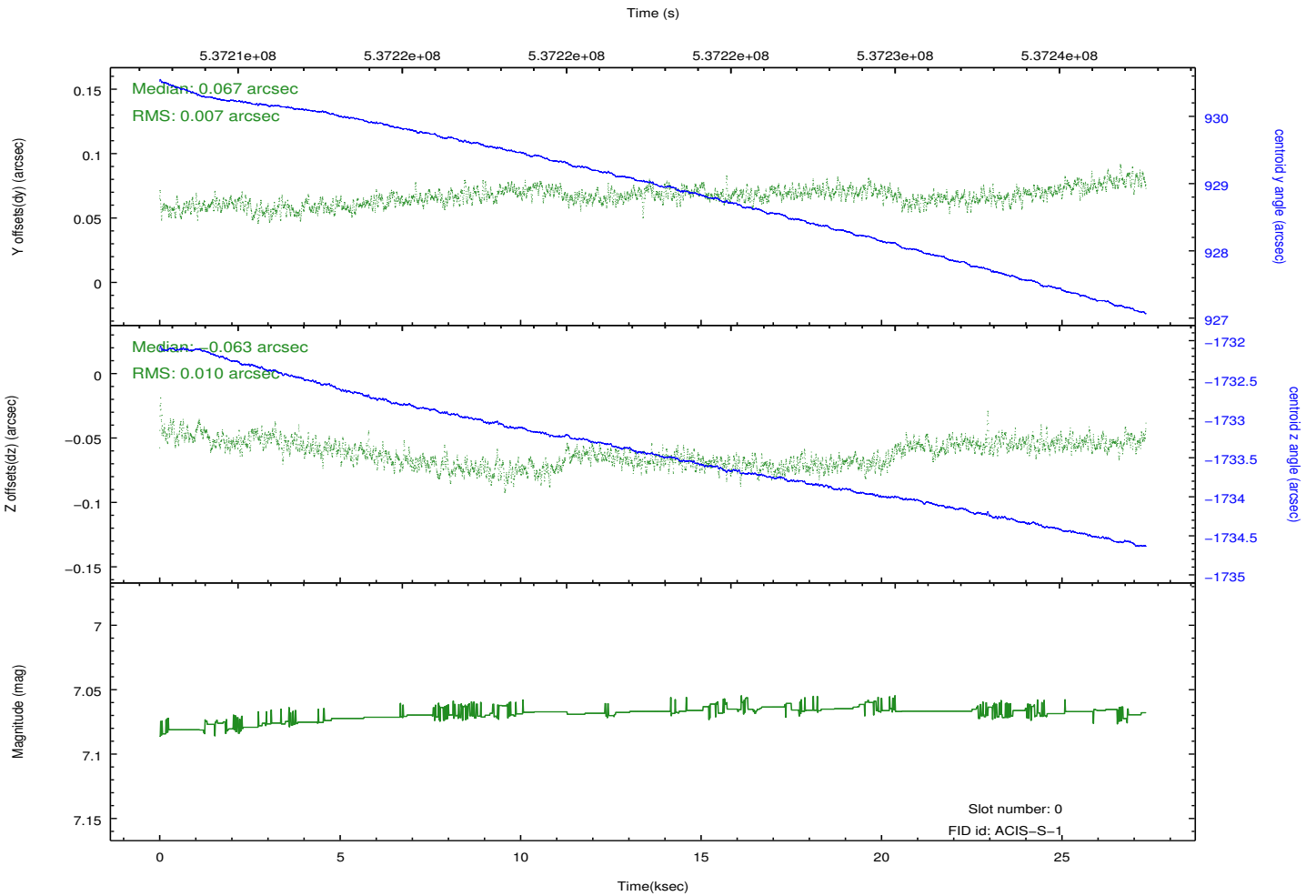
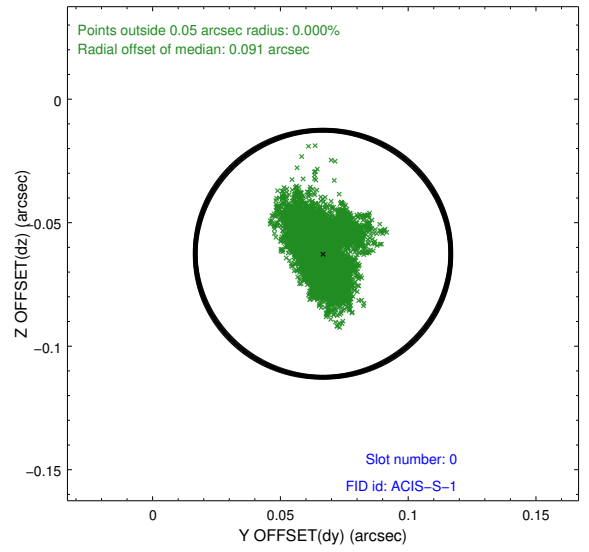
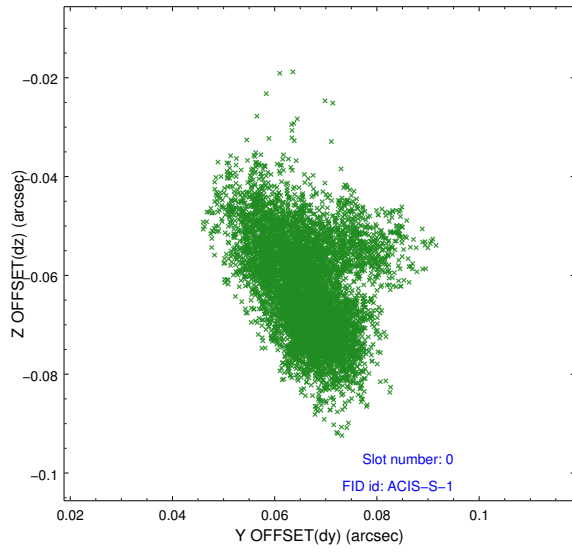


2.4.5 Slot 7

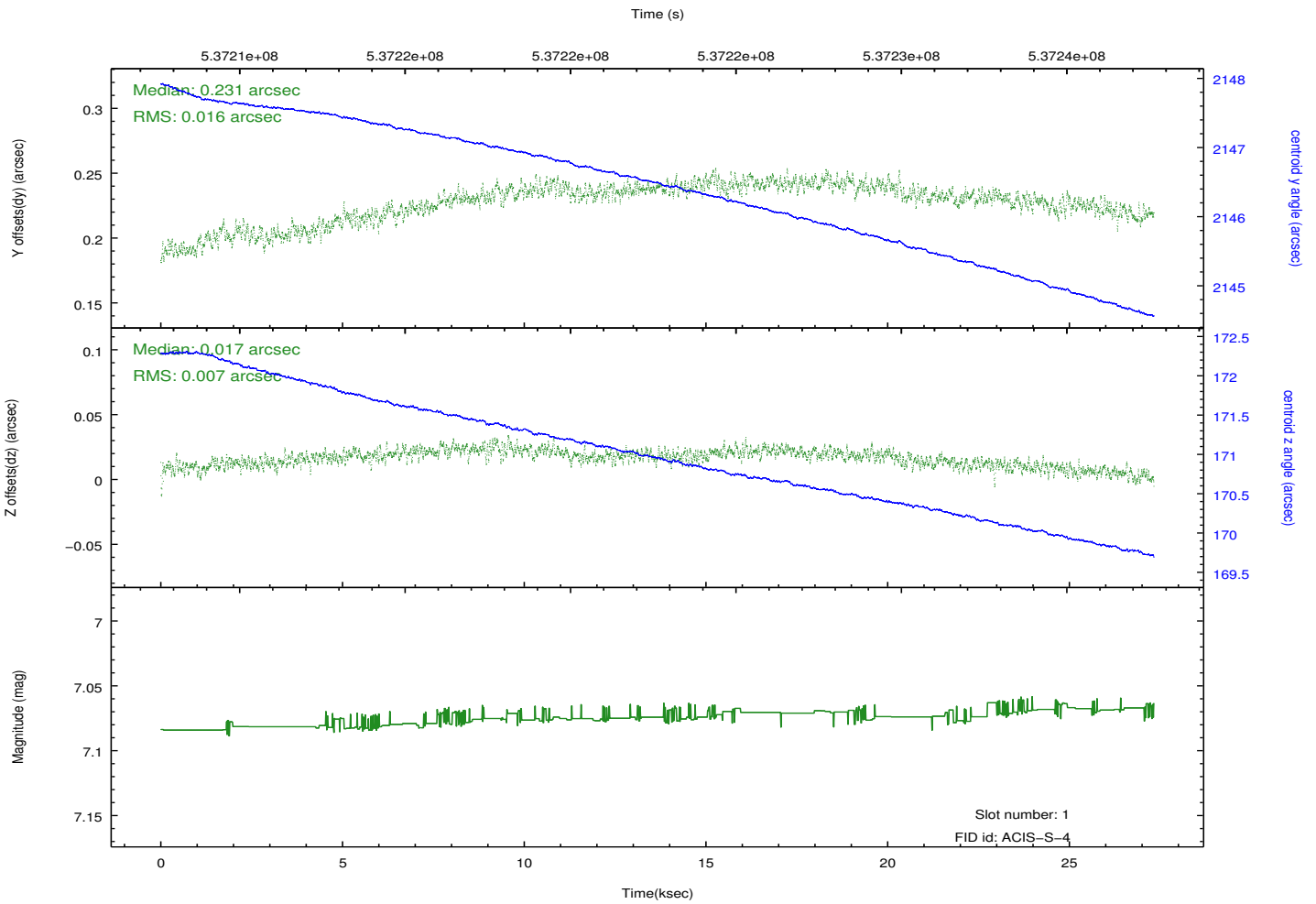
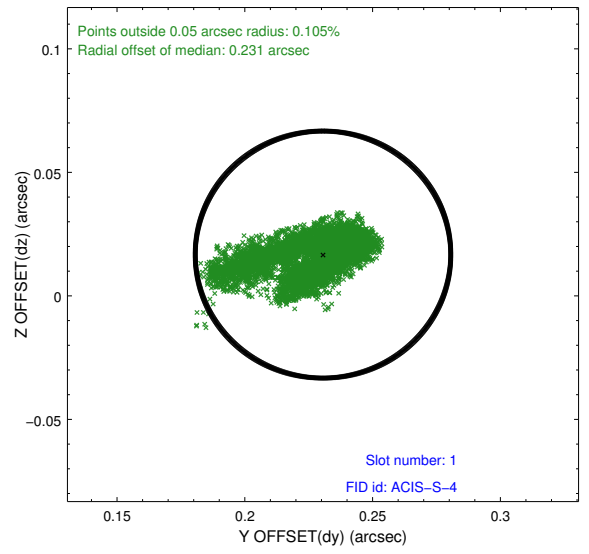
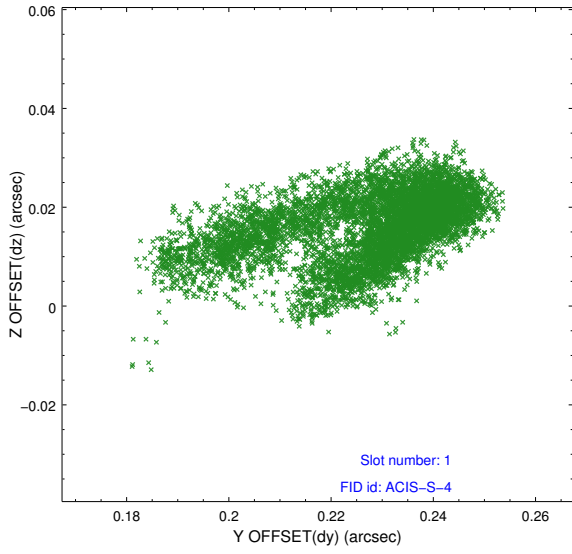


2.5 FID Slots

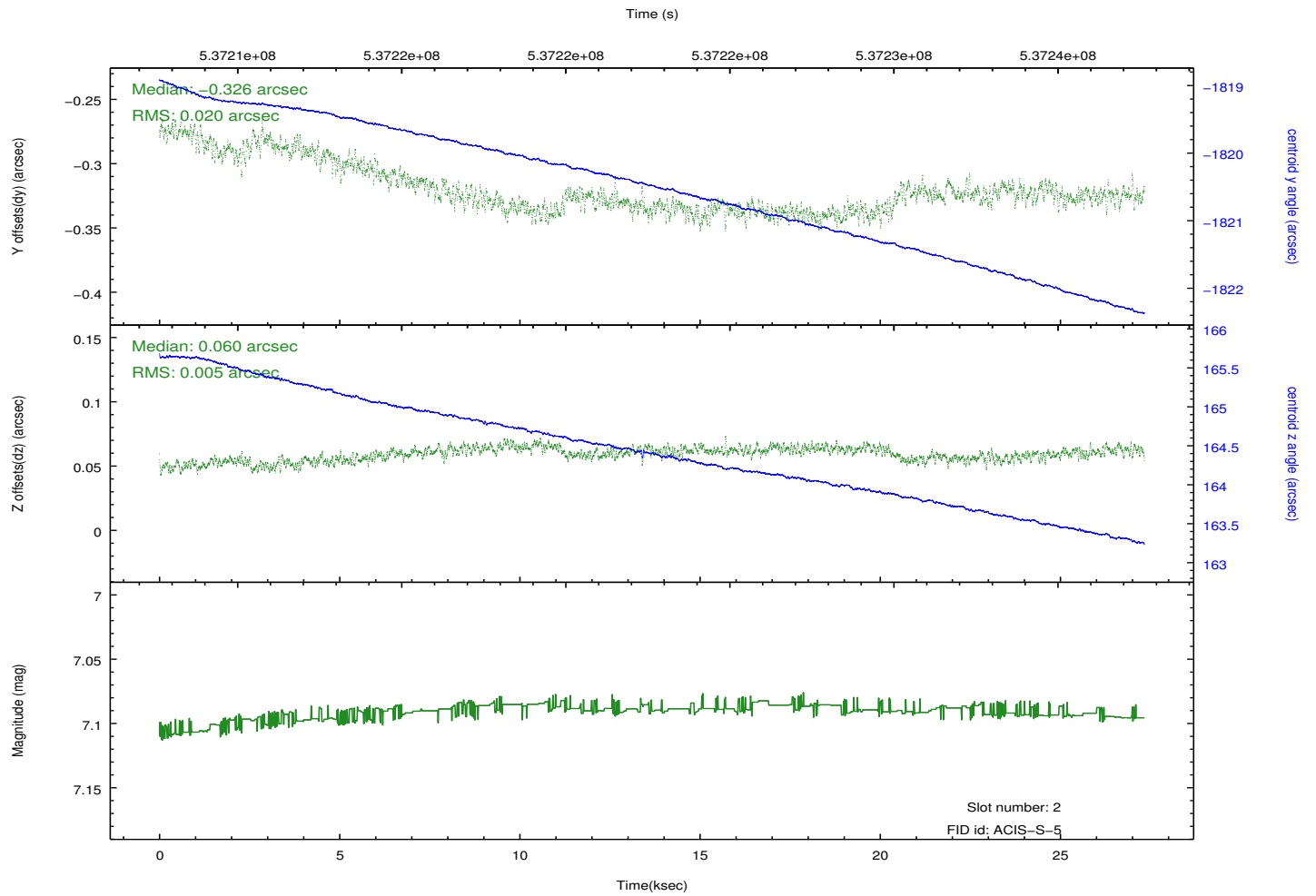
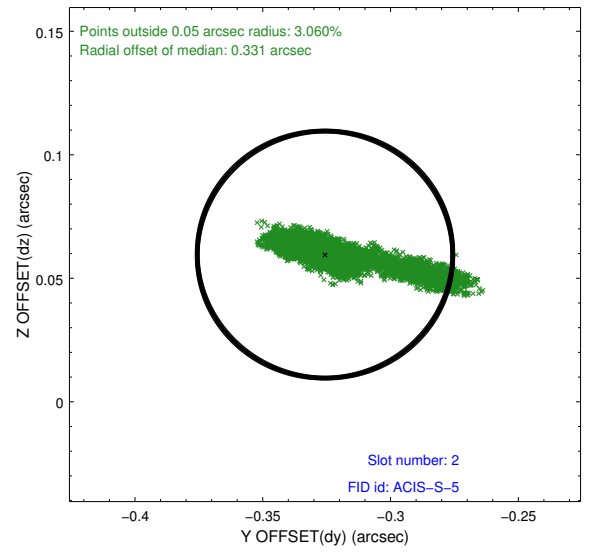
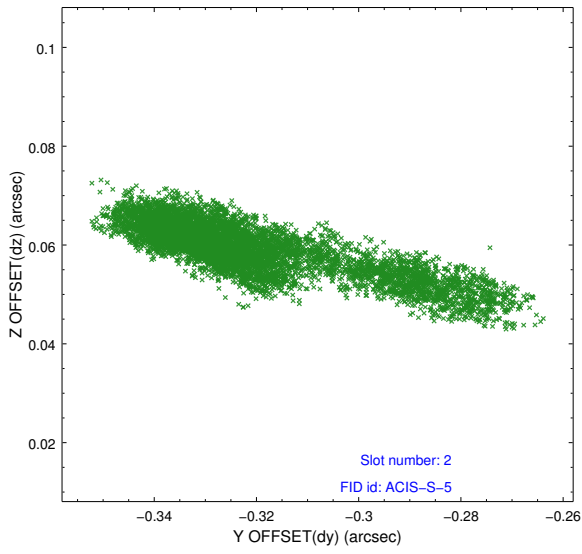
2.5.1 Slot 0



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)	2015.01.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.163665943623

A.2 Comments

Roll preference met.