

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3131 - L2 Version 3
Chandra X-Ray Center

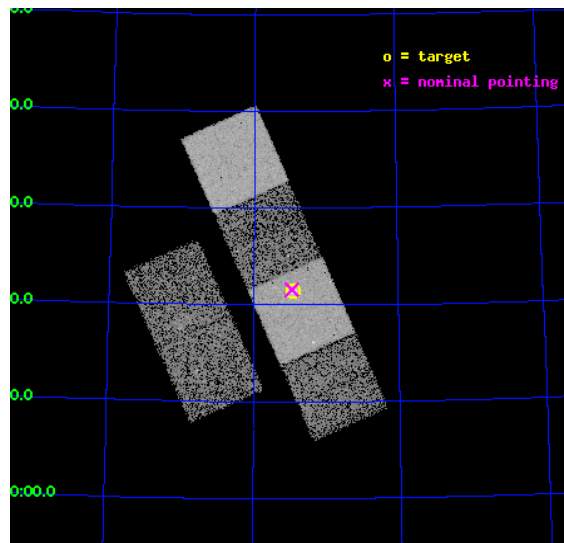
L2 Processing Date : Oct 13 2012

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1 Front

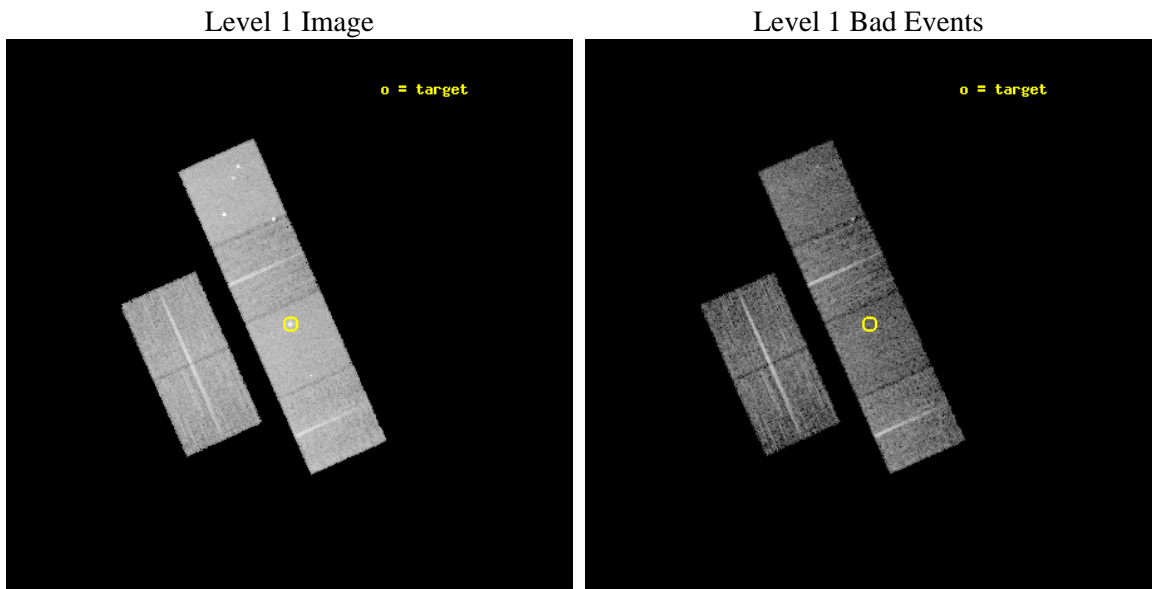
seq_num	700570	Sequence number
obs_id	3131	Observation id
title	SEARCH FOR AN INTERMEDIATE MASS BLACK HOLE IN THE STARBURST GALAXY NGC2146	Proposal title
observer	Dr Hironori Matsumoto	Principal investigator
object	NGC2146	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	94.655417	Observer's specified target RA [deg]
dec_targ	78.356556	Observer's specified target Dec [deg]
ra_nom	94.671228627123	Nominal RA [deg]
dec_nom	78.359543868307	Nominal Dec [deg]
roll_nom	66.009093563299	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9394.9343212247	Sum of GTIs [s]
livetime	9275.9700058991	Livetime [s]
ontime2	9394.975361228	Sum of GTIs [s]
ontime3	9394.8112012148	Sum of GTIs [s]
ontime5	9394.8932812214	Sum of GTIs [s]
ontime6	9394.8522412181	Sum of GTIs [s]
ontime7	9394.9343212247	Sum of GTIs [s]
ontime8	9391.5290614069	Sum of GTIs [s]
l2events	89240	Number of level 2 events



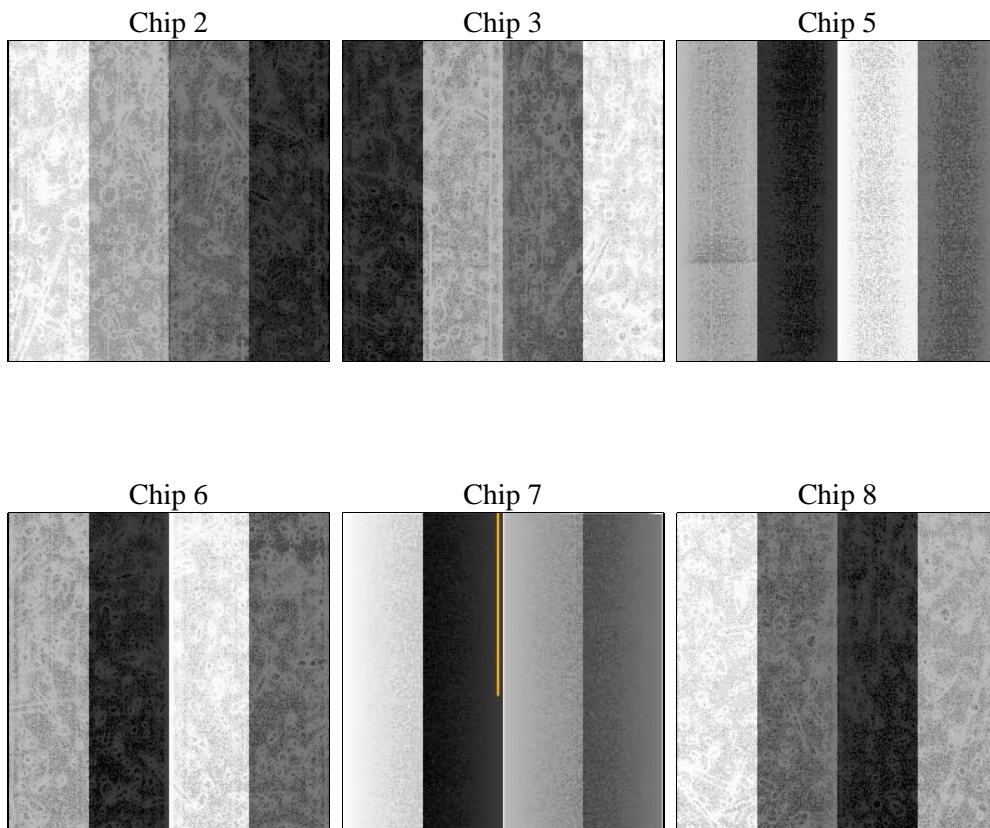
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	9640.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9394.9343212247	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	9394.9753612228	Sum of GTIs [s]
date	2012-10-13T05:17:19	Date and time of file creation	ontime3	9394.8112012148	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	9394.8932812214	Sum of GTIs [s]
			ontime6	9394.8522412181	Sum of GTIs [s]
			ontime7	9394.9343212247	Sum of GTIs [s]
			ontime8	9391.5290614069	Sum of GTIs [s]
			l1events	395134	Number of level 1 events

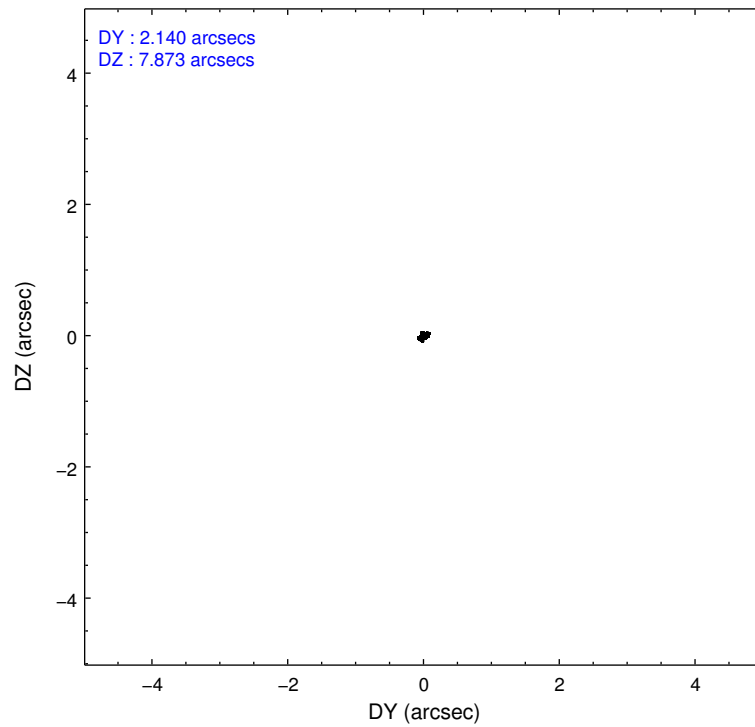
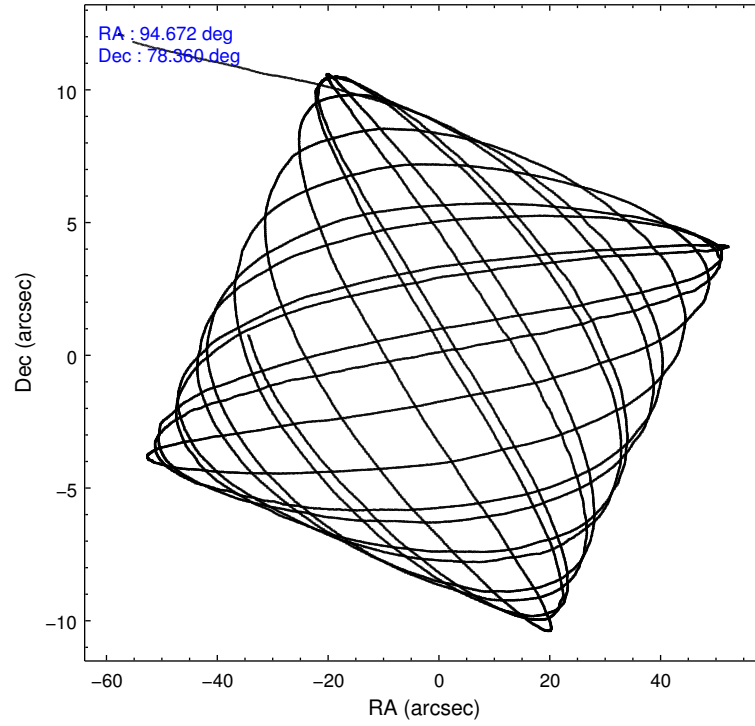
2.1.4 Events

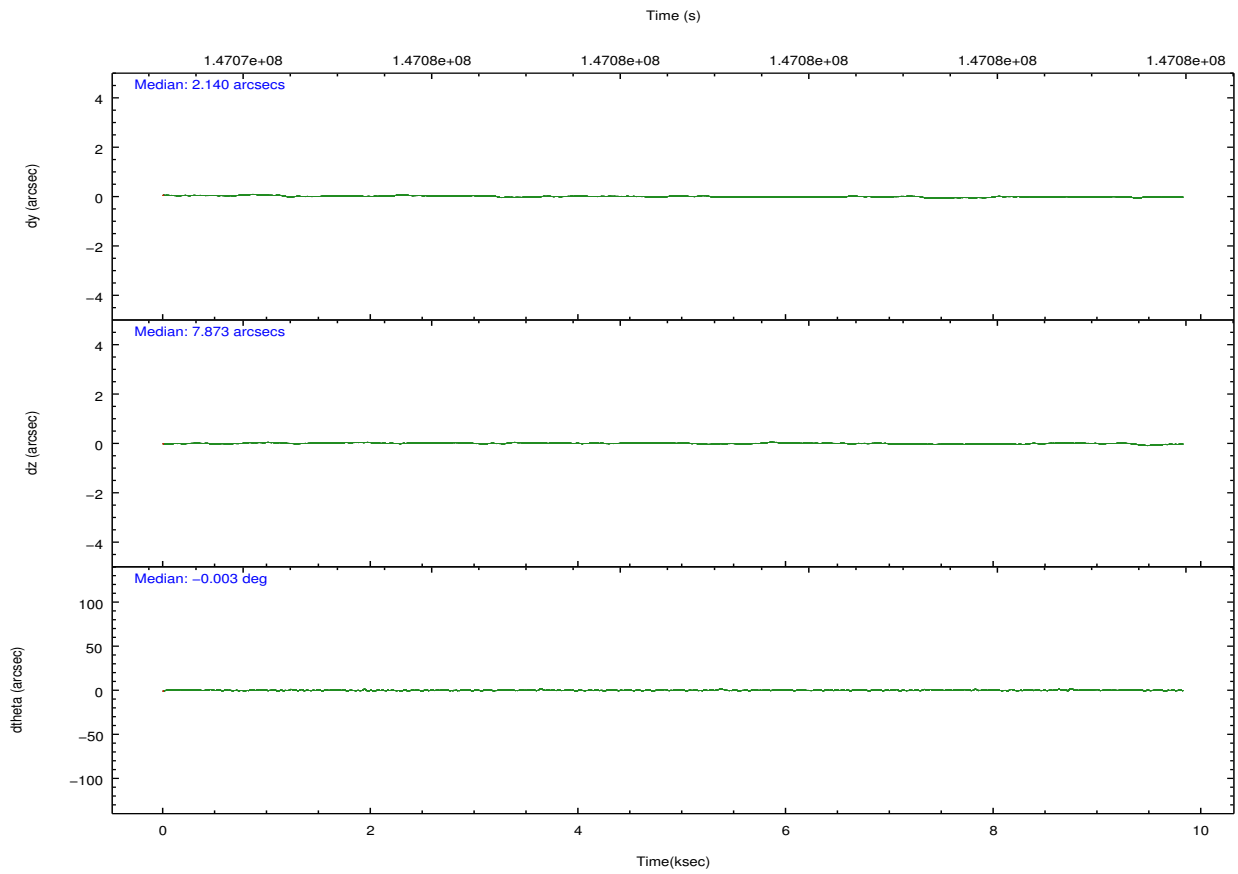
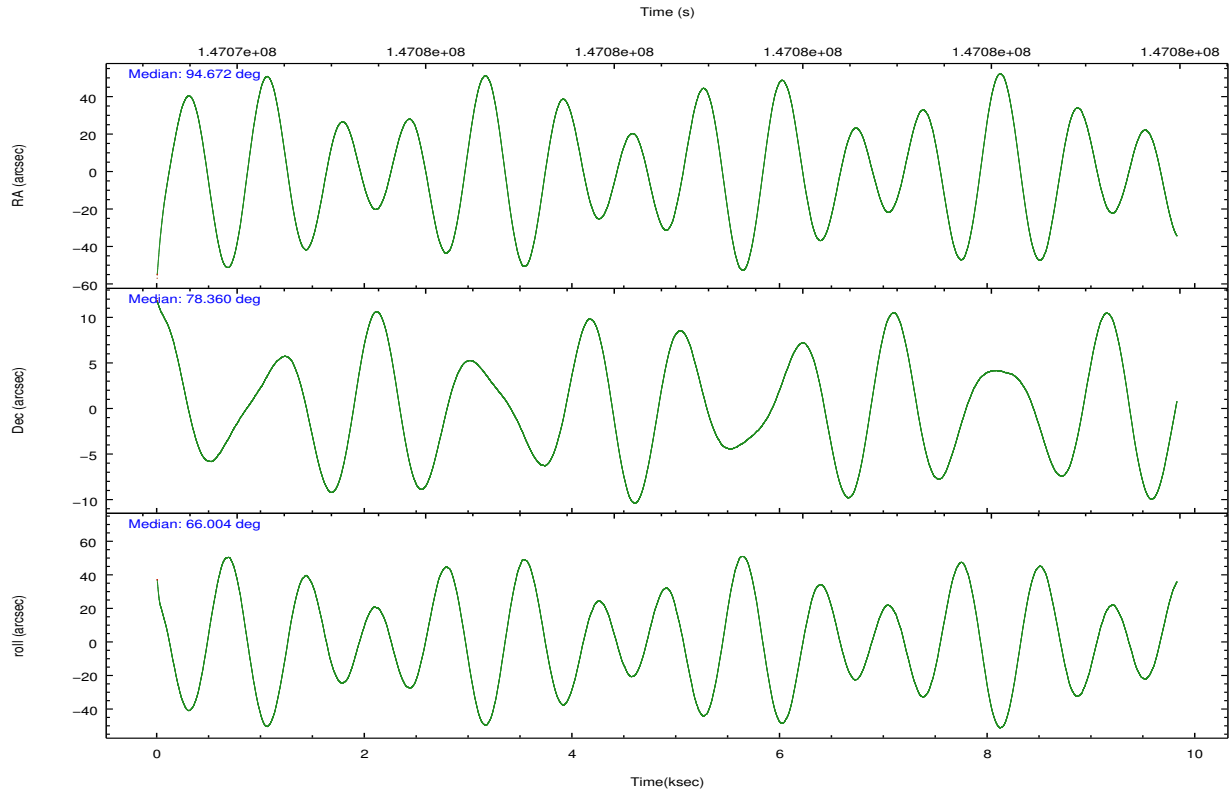
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	55350	54075	80730	56975	75291	72713	grade 0 events	3250	2937	4300	2606	3558	4427
rejected events	48507	47642	43183	50523	42465	58718		5%	5%	5%	4%	4%	6%
rejected %	87%	88%	53%	88%	56%	80%	grade 1 events	46	31	138	24	75	40
								0%	0%	0%	0%	0%	0%
							grade 2 events	1277	1149	10974	1295	6587	3003
								2%	2%	13%	2%	8%	4%
							grade 3 events	623	649	1549	612	2975	1450
								1%	1%	1%	1%	3%	1%
							grade 4 events	589	636	1521	673	3027	1401
								1%	1%	1%	1%	4%	1%
							grade 5 events	2100	2288	6042	2445	7161	3150
								3%	4%	7%	4%	9%	4%
							grade 6 events	1104	1065	19211	1270	16692	3718
								1%	1%	23%	2%	22%	5%
							grade 7 events	46361	45320	36995	48050	35216	55524
								83%	83%	45%	84%	46%	76%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	94.687060	94.6712286271233	Subarray requested	NONE	NONE
[deg] Pointing Dec	78.332503	78.3595438683067	Alternating exposures requested	N	N
[deg] Pointing Roll	65.836982	66.0090935632992	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	147073837.184000	147073160.48556			
Observation start date	2002-08-30T05:49:33	2002-08-30T05:39:20			
[s] Observation end time (MET)	147083477.184000	147084295.57352			
Observation end date	2002-08-30T08:30:13	2002-08-30T08:44:55			
Read mode	TIMED	TIMED			

2.3 Aspect



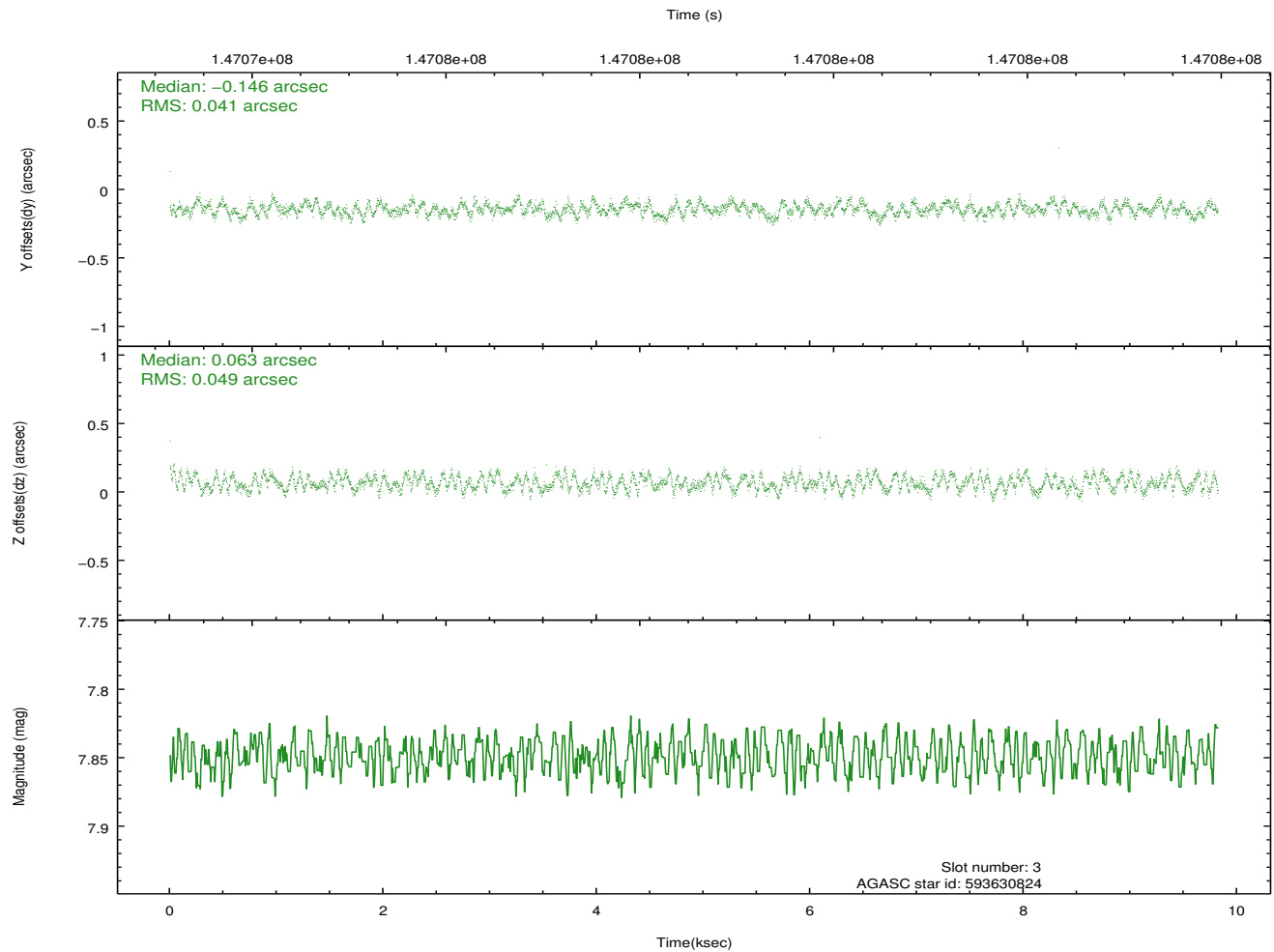
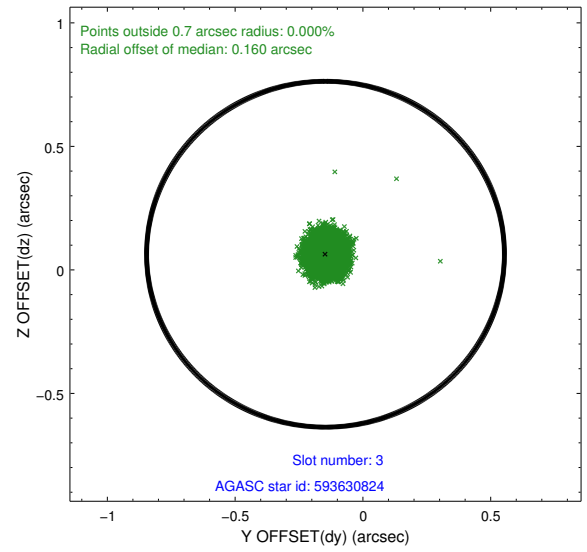
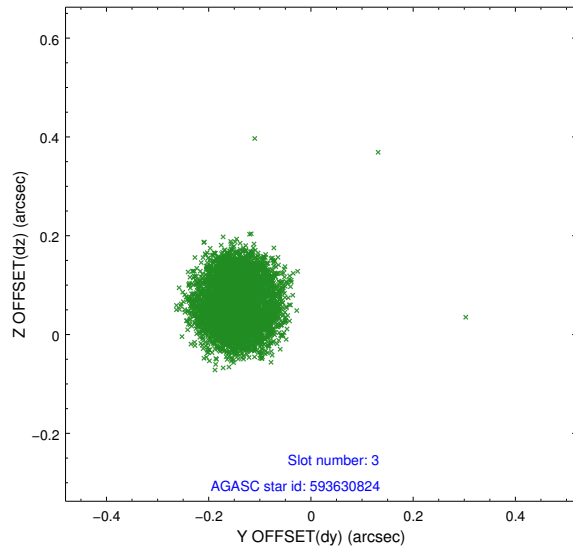


Slot Statistics

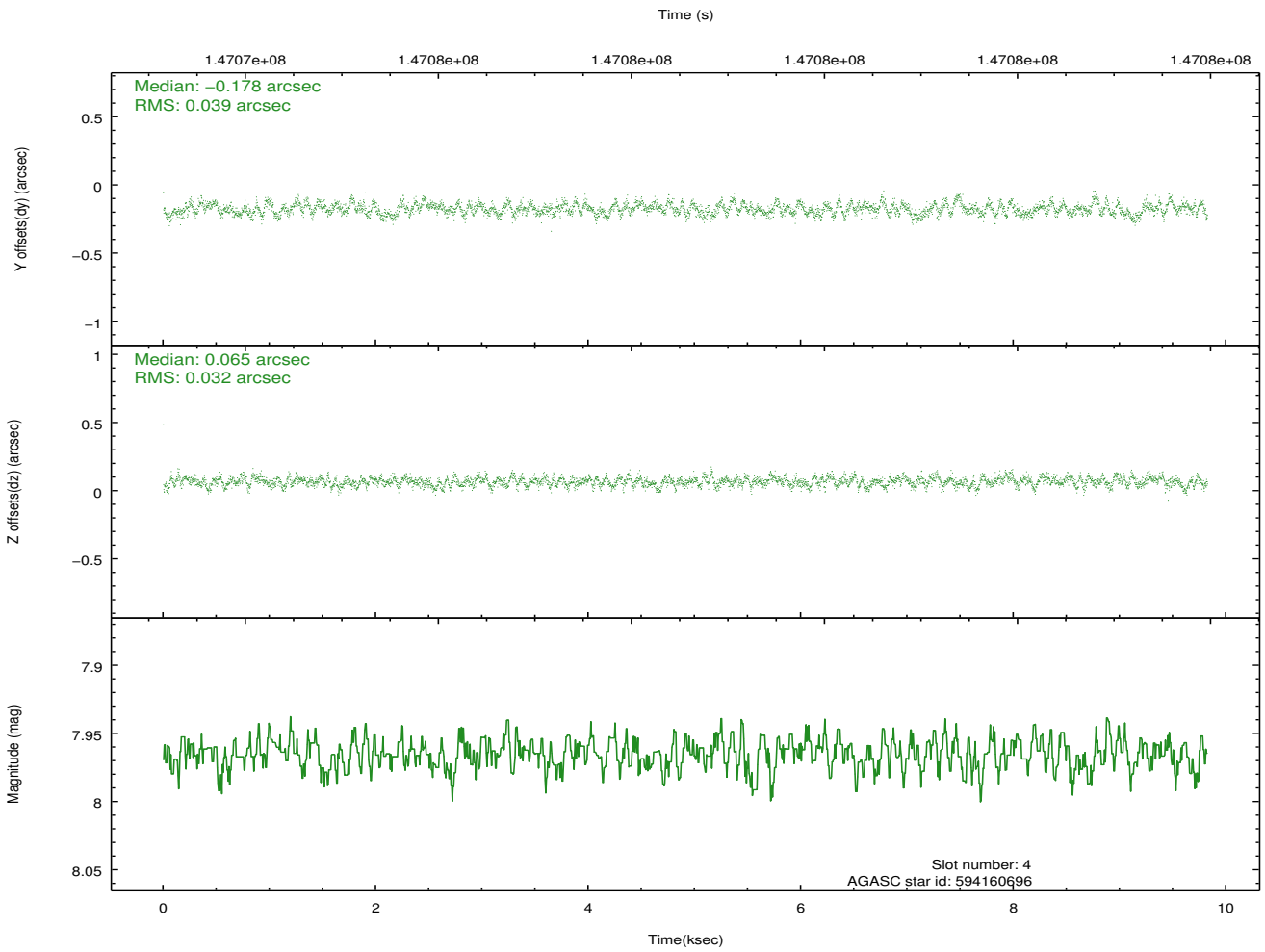
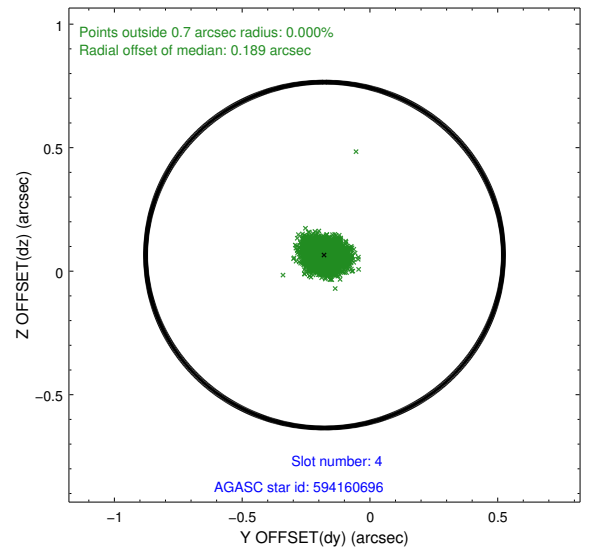
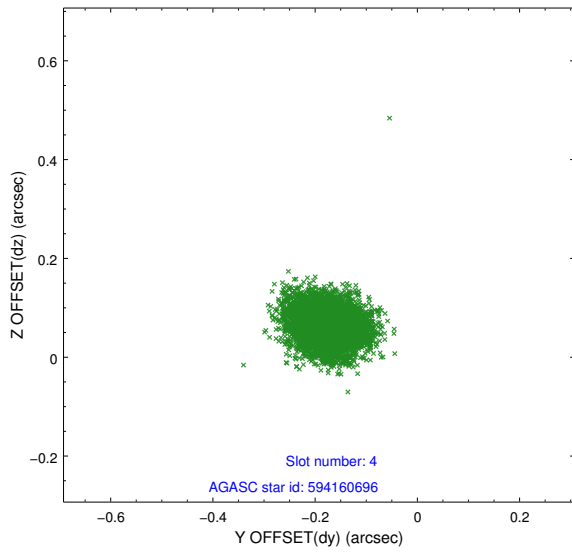
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2397	-0.023	-0.013	0.006	0.010	0.000000	0.000000	-754.80	-1729.06
1	FID	ACIS-S-4	7.20	2397	-0.014	0.014	0.005	0.010	0.000000	0.000000	2158.26	178.86
2	FID	ACIS-S-5	7.24	2396	0.005	0.008	0.006	0.011	0.000000	0.000000	-1806.90	173.18
3	GUIDE	593630824	7.85	4792	-0.146	0.063	0.070	0.100	97.139560	77.959365	-436.93	-2213.53
4	GUIDE	594160696	7.97	4791	-0.178	0.065	0.054	0.086	96.554720	78.795378	2073.57	-500.99
5	GUIDE	593628560	8.24	4792	0.119	-0.118	0.064	0.101	92.260818	78.027017	-1710.40	1218.07
6	GUIDE	593631272	8.36	4790	0.221	0.131	0.072	0.121	97.229274	77.907214	-574.65	-2357.80
7	GUIDE	594159216	8.61	4791	-0.011	-0.135	0.057	0.091	93.921009	78.896665	1638.29	1317.15

2.4 Star Slots

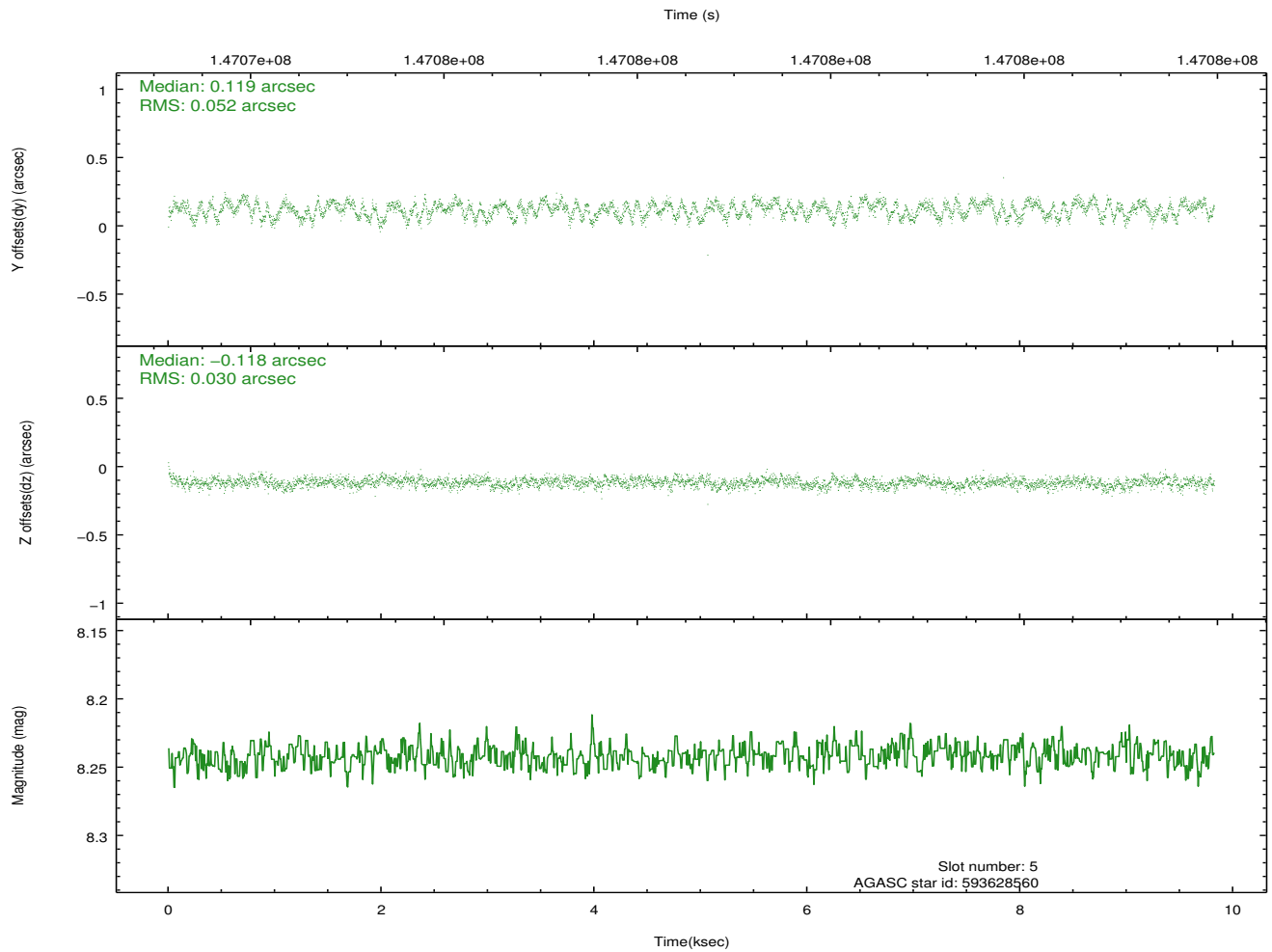
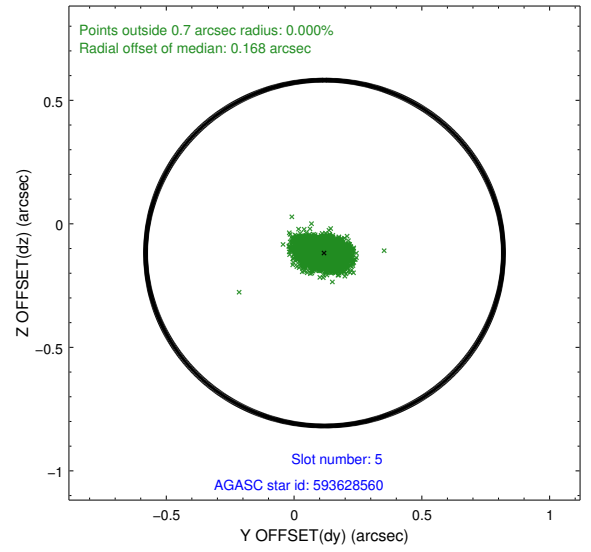
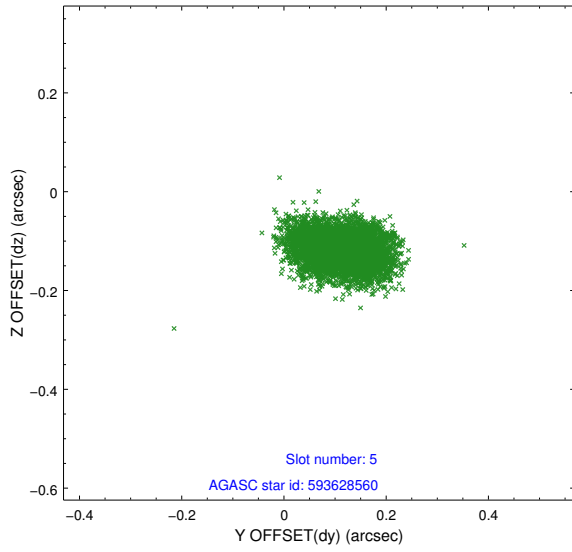
2.4.1 Slot 3



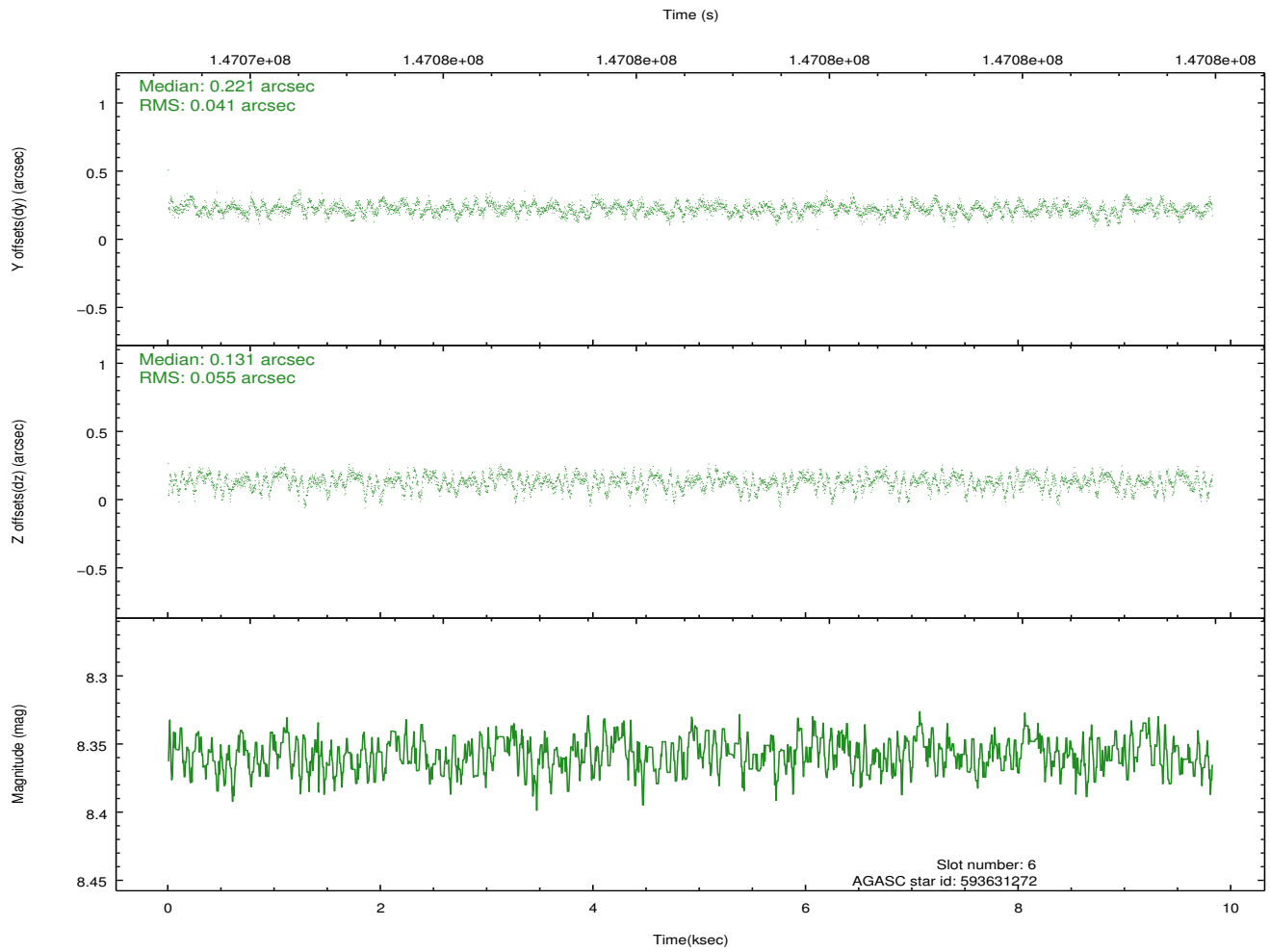
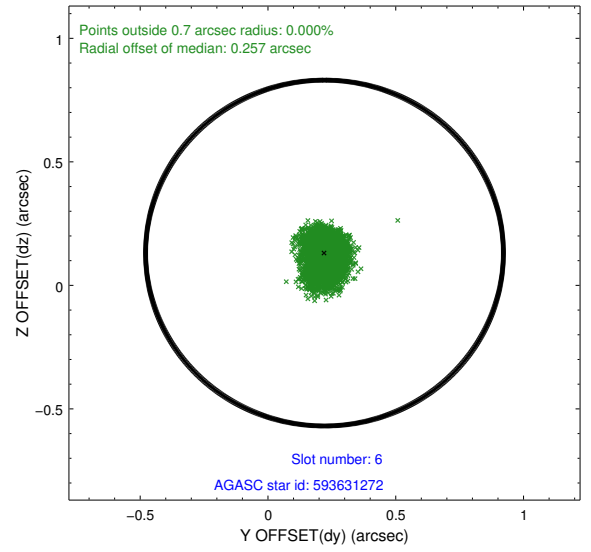
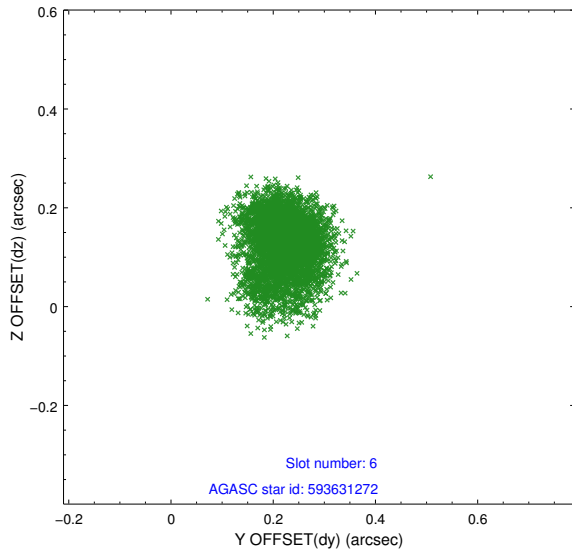
2.4.2 Slot 4



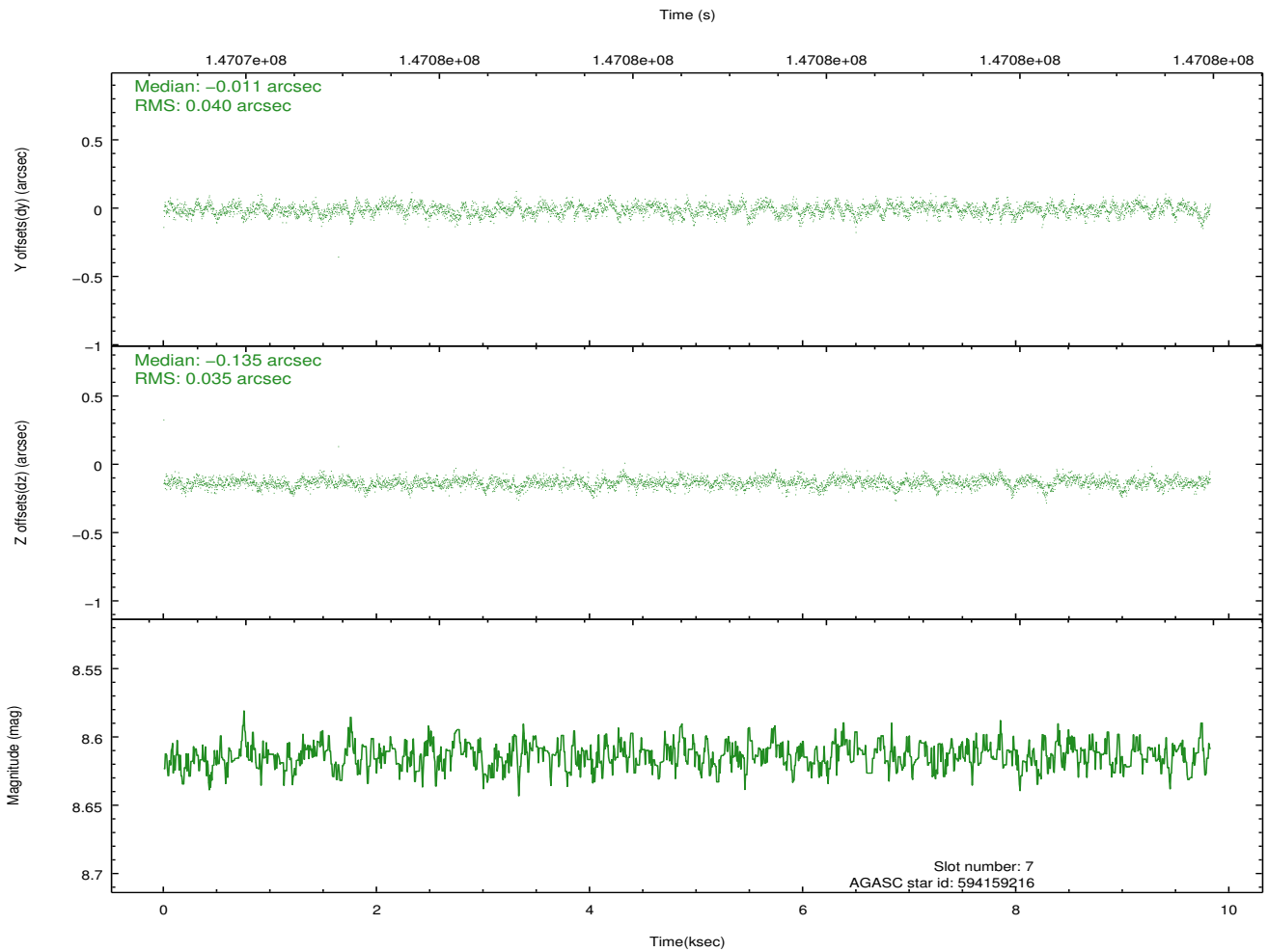
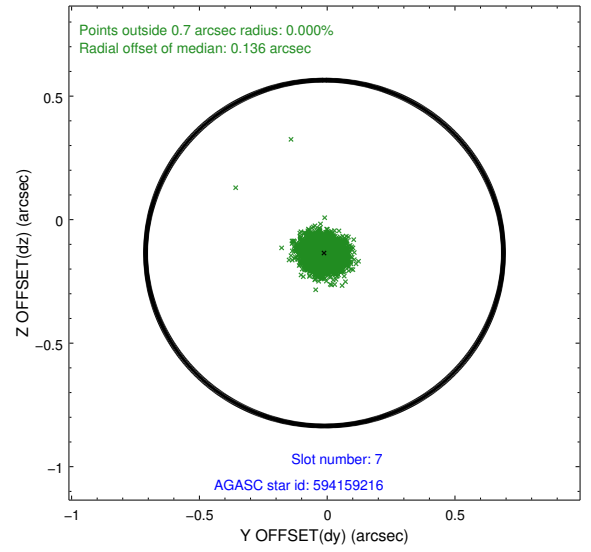
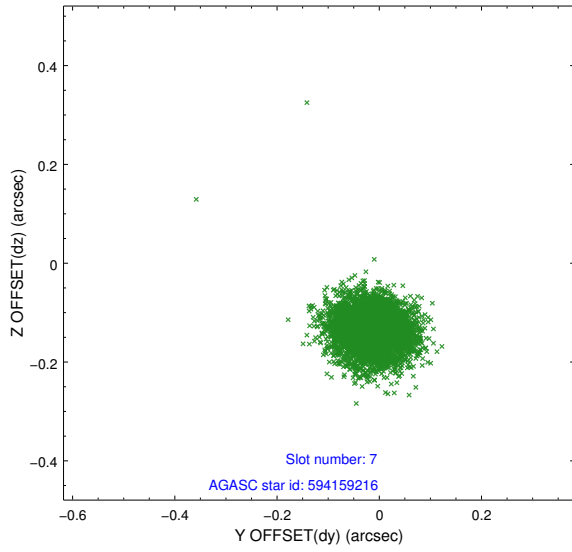
2.4.3 Slot 5



2.4.4 Slot 6

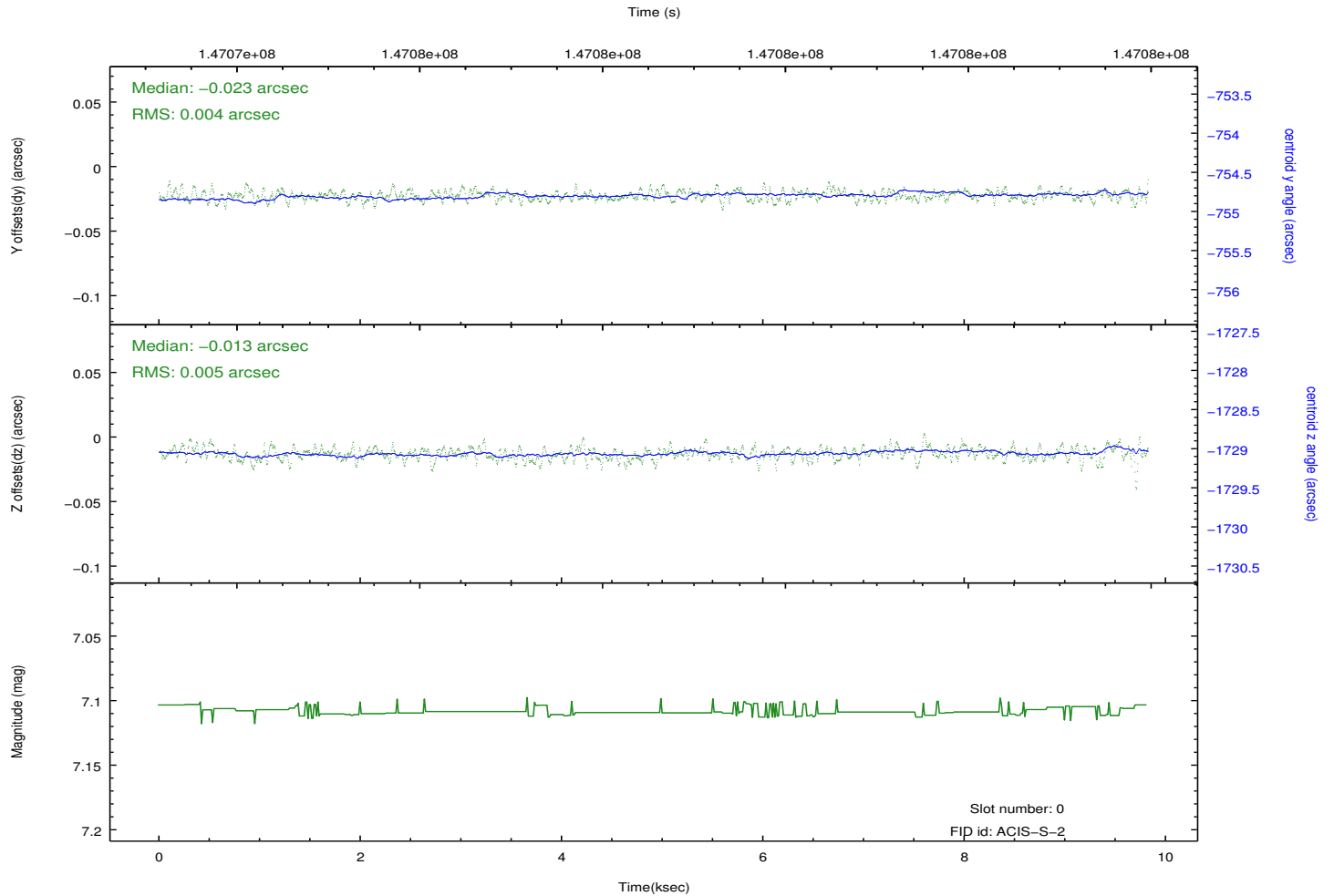
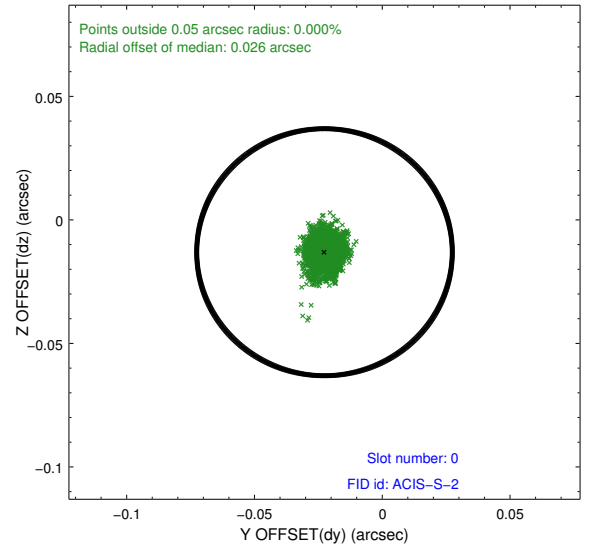
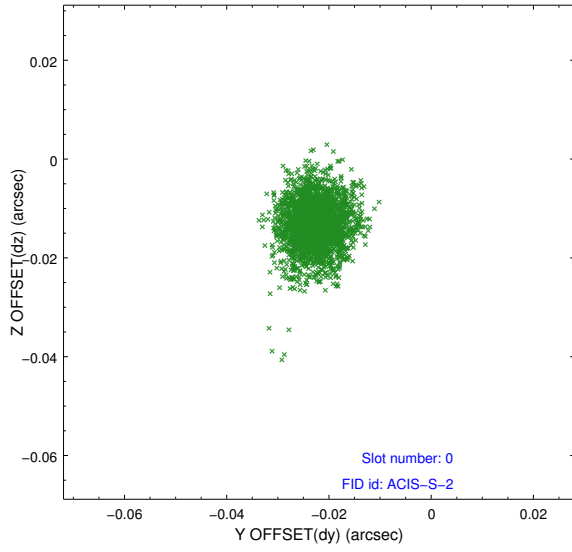


2.4.5 Slot 7

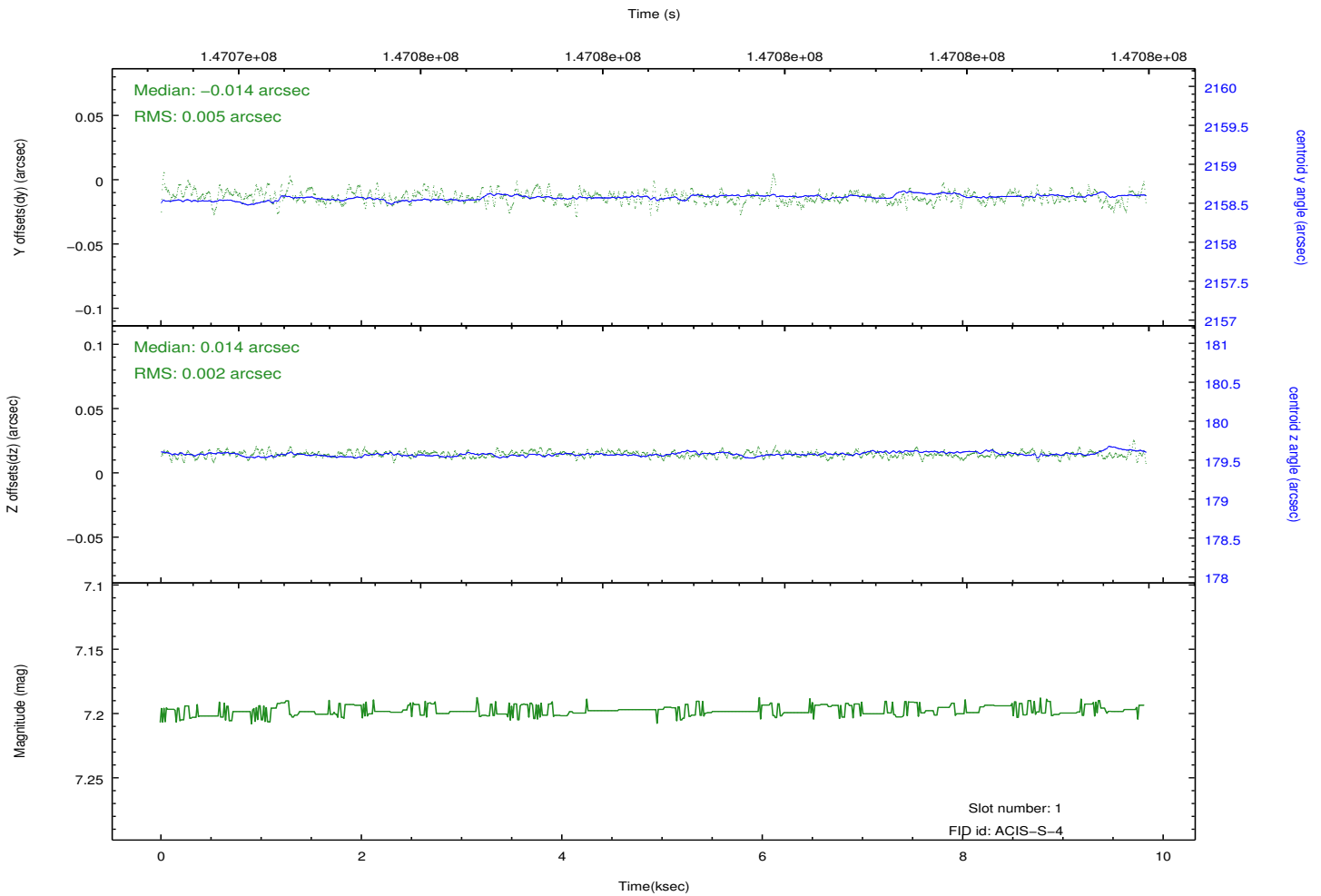
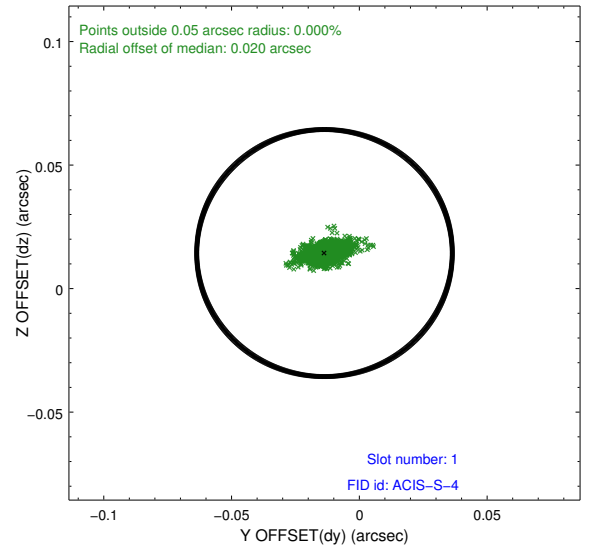
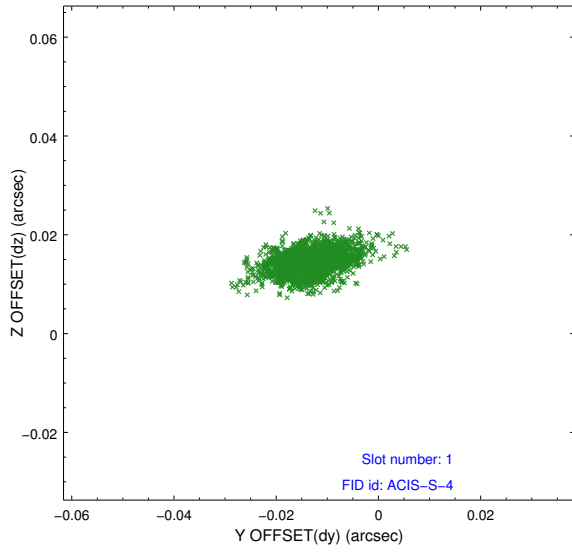


2.5 FID Slots

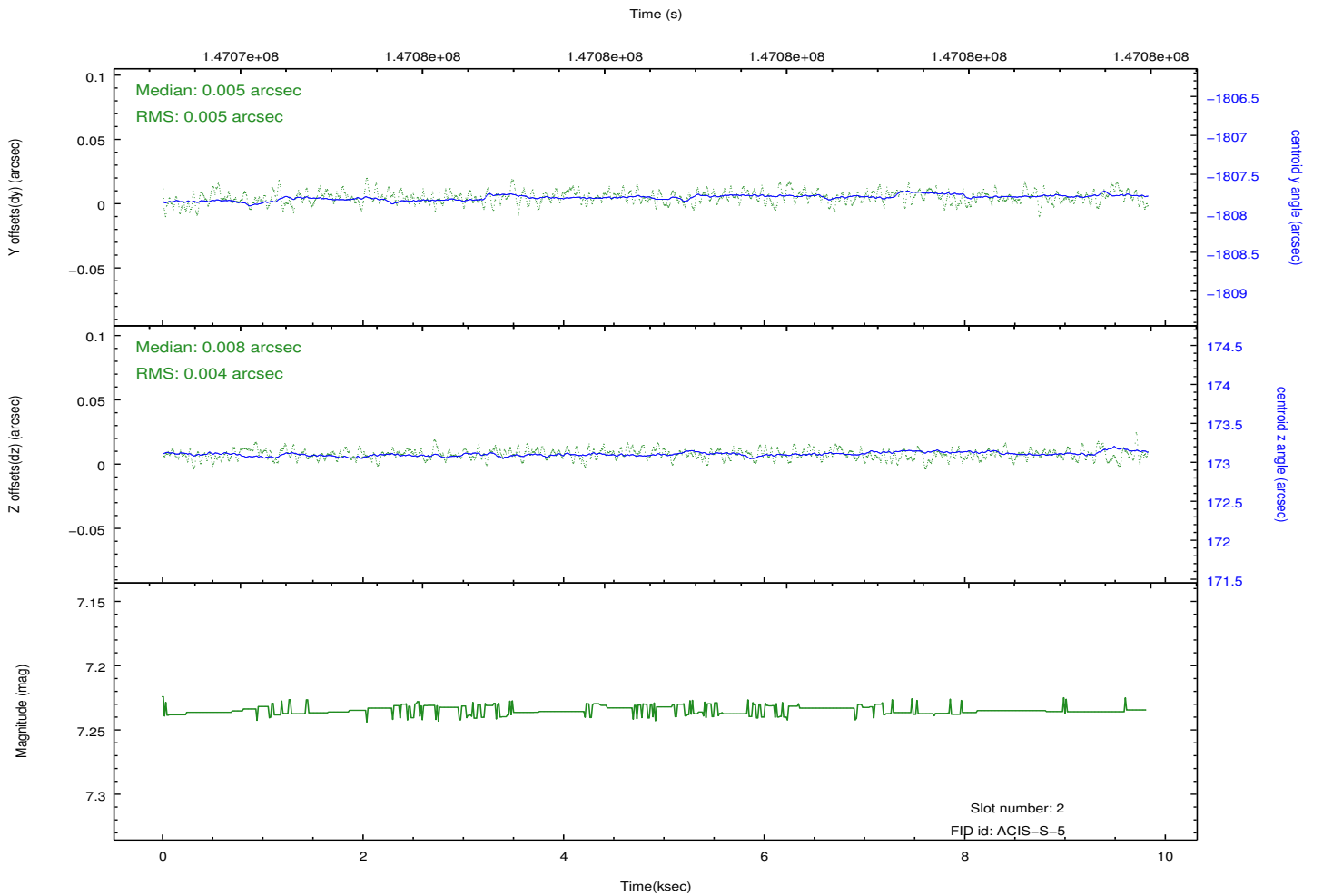
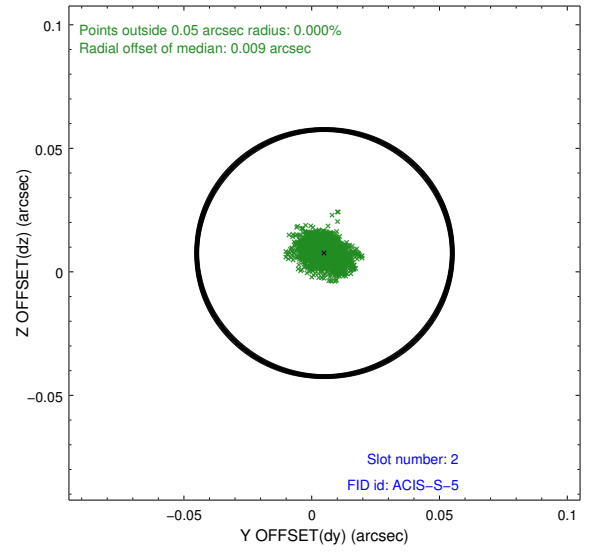
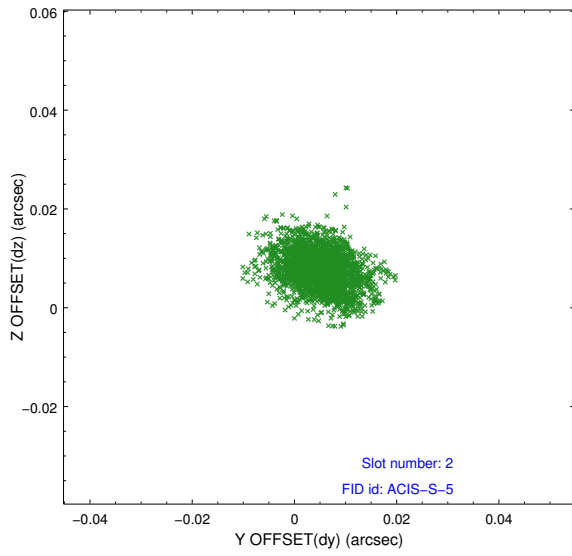
2.5.1 Slot 0



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)	2012.10.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.395

A.2 Comments