

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10464 - L2 Version 2
Chandra X-Ray Center

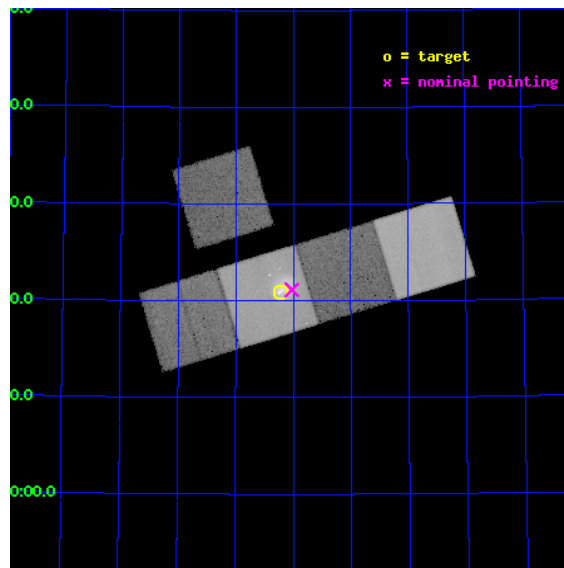
L2 Processing Date : Jun 28 2012

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

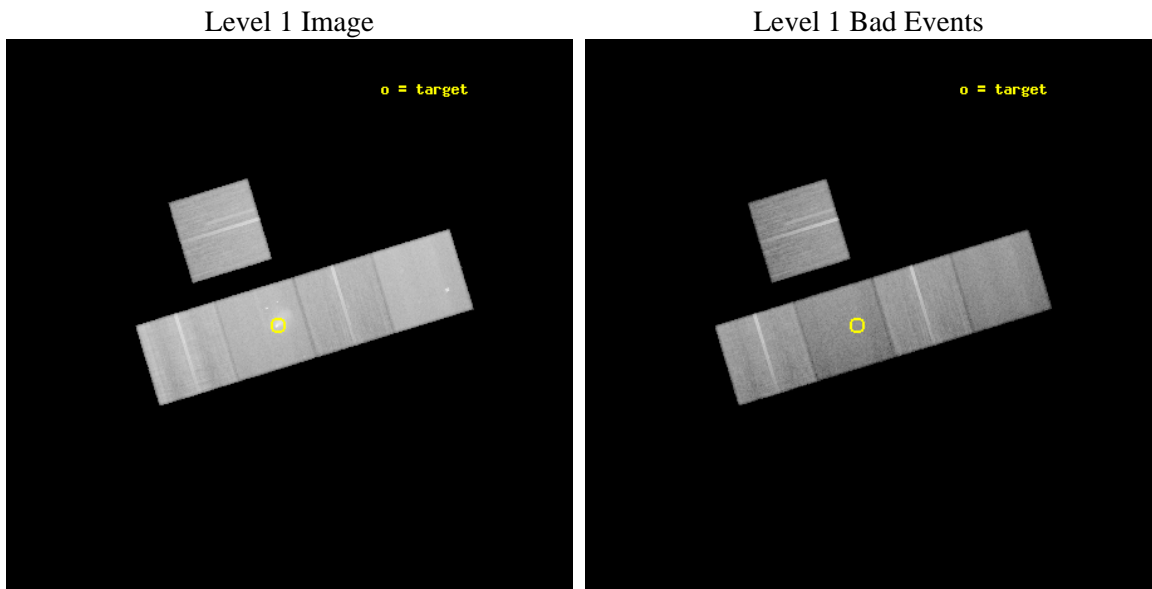
seq_num	800825	Sequence number
obs_id	10464	Observation id
title	Does AGN heating quench star formation in Brightest Cluster Galaxies?	Proposal title
observer	Dr Helen Russell	Principal investigator
object	Abell 2146	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.0575	Observer's specified target RA [deg]
dec_targ	66.348611	Observer's specified target Dec [deg]
ra_nom	239.00609612045	Nominal RA [deg]
dec_nom	66.352312811274	Nominal Dec [deg]
roll_nom	163.00371826053	Nominal Roll [deg]
revision	2	Processing version of data
ontime	36149.10027802	Sum of GTIs [s]
livetime	35676.785670307	Livetime [s]
ontime3	36142.818287551	Sum of GTIs [s]
ontime5	36149.10027802	Sum of GTIs [s]
ontime6	36145.959297717	Sum of GTIs [s]
ontime7	36149.10027802	Sum of GTIs [s]
ontime8	36145.959307611	Sum of GTIs [s]
l2events	497766	Number of level 2 events



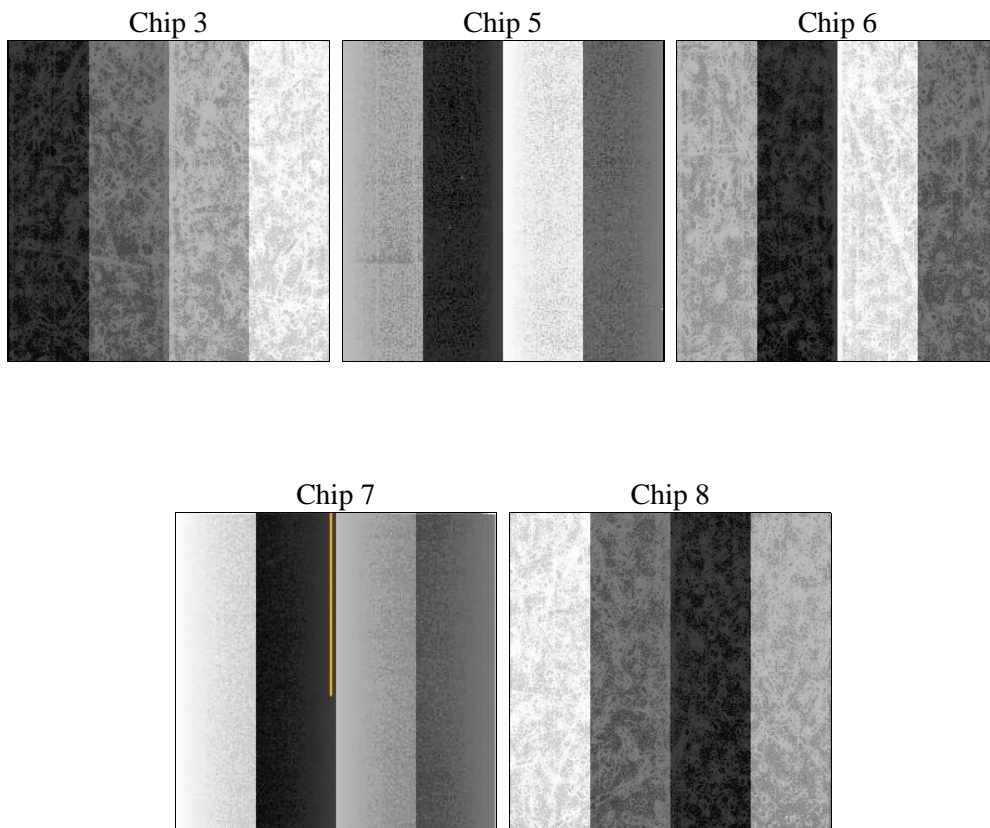
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	36149.10027802	Sum of GTIs [s]
caldsver	4.5.0	 	ontime3	36142.818287551	Sum of GTIs [s]
date	2012-06-28T14:15:39	Date and time of file creation	ontime5	36149.10027802	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	36145.959297717	Sum of GTIs [s]
			ontime7	36149.10027802	Sum of GTIs [s]
			ontime8	36145.959307611	Sum of GTIs [s]
			l1events	1890699	Number of level 1 events

2.1.4 Events

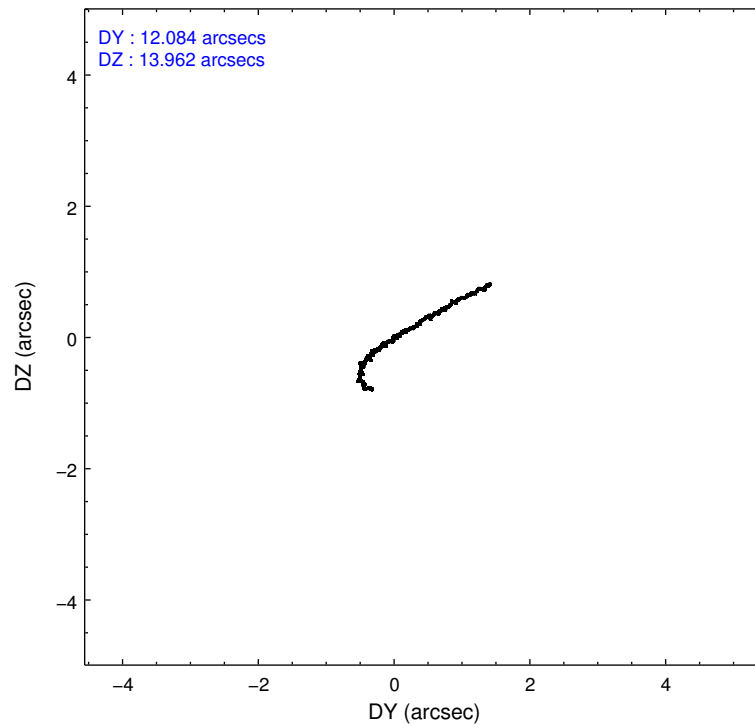
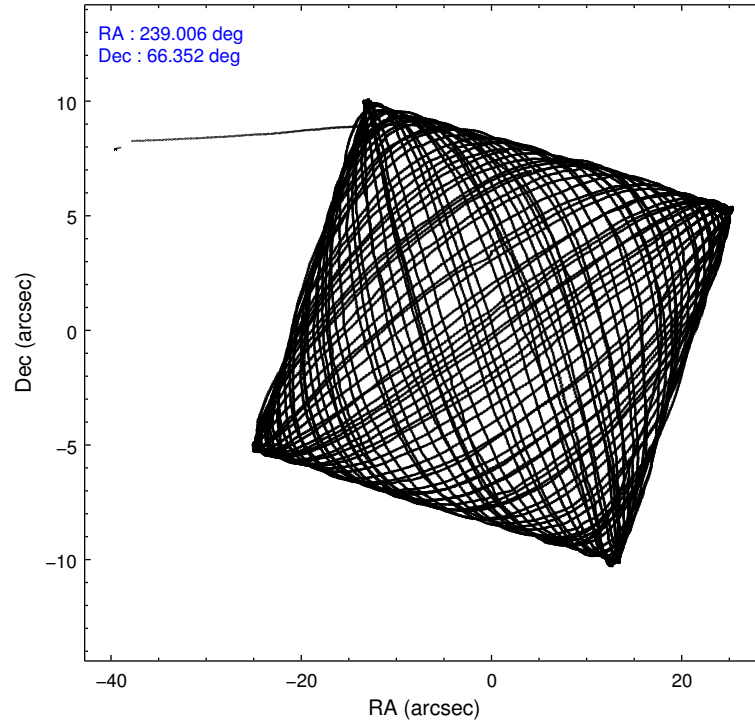
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	310528	445468	325891	401730	407082
rejected events	281273	227516	292477	200449	303365
rejected %	90%	51%	89%	49%	74%

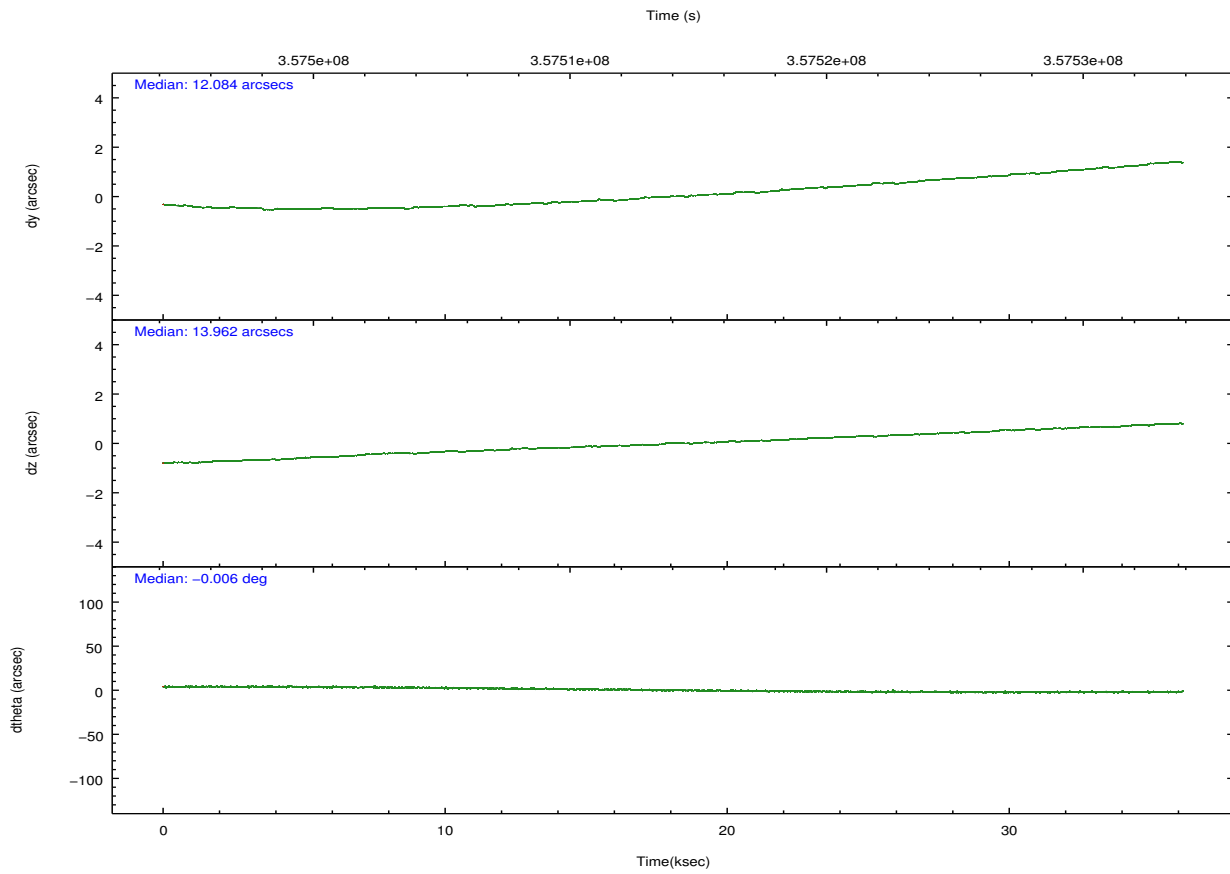
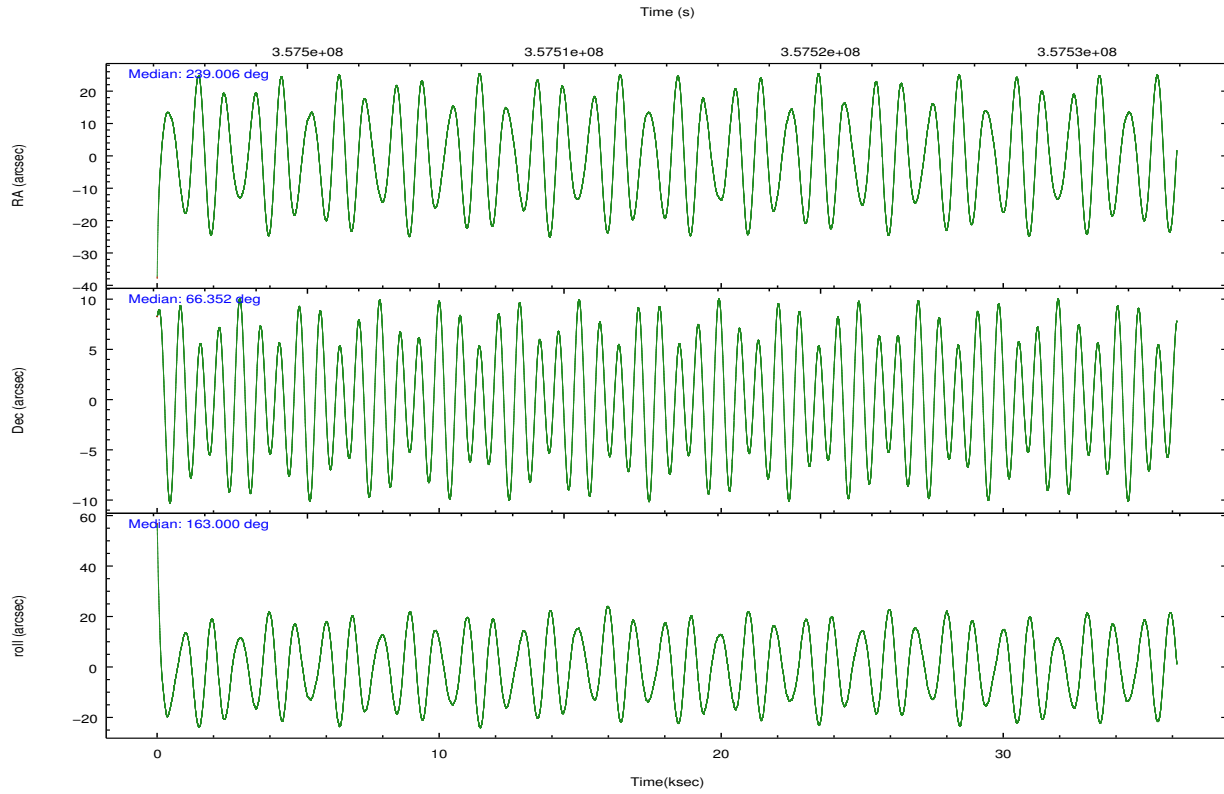
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	10233	16733	11612	26749	30824
	3%	3%	3%	6%	7%
grade 1 events	201	764	196	495	322
	0%	0%	0%	0%	0%
grade 2 events	6445	66251	7516	43379	24070
	2%	14%	2%	10%	5%
grade 3 events	3389	9492	3650	19106	11187
	1%	2%	1%	4%	2%
grade 4 events	3360	9154	3509	19026	10274
	1%	2%	1%	4%	2%
grade 5 events	12830	35502	13141	38324	19139
	4%	7%	4%	9%	4%
grade 6 events	6004	117525	7294	94021	27802
	1%	26%	2%	23%	6%
grade 7 events	268066	190047	278973	160630	283464
	86%	42%	85%	39%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	239.072344	239.0060961204519	CCD I2 on	N	N
[deg] Pointing Dec	66.358818	66.35231281127446	CCD I3 on	O2	Y
[deg] Pointing Roll	162.786401	163.0037182605303	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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)	357496094.184000	357495010.96093	CCD S5 on	N	N
Observation start date	2009-04-30T16:27:08	2009-04-30T16:10:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	357532094.184000	357532724.30031	On-chip summing requested	N	N
Observation end date	2009-05-01T02:27:08	2009-05-01T02:38:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





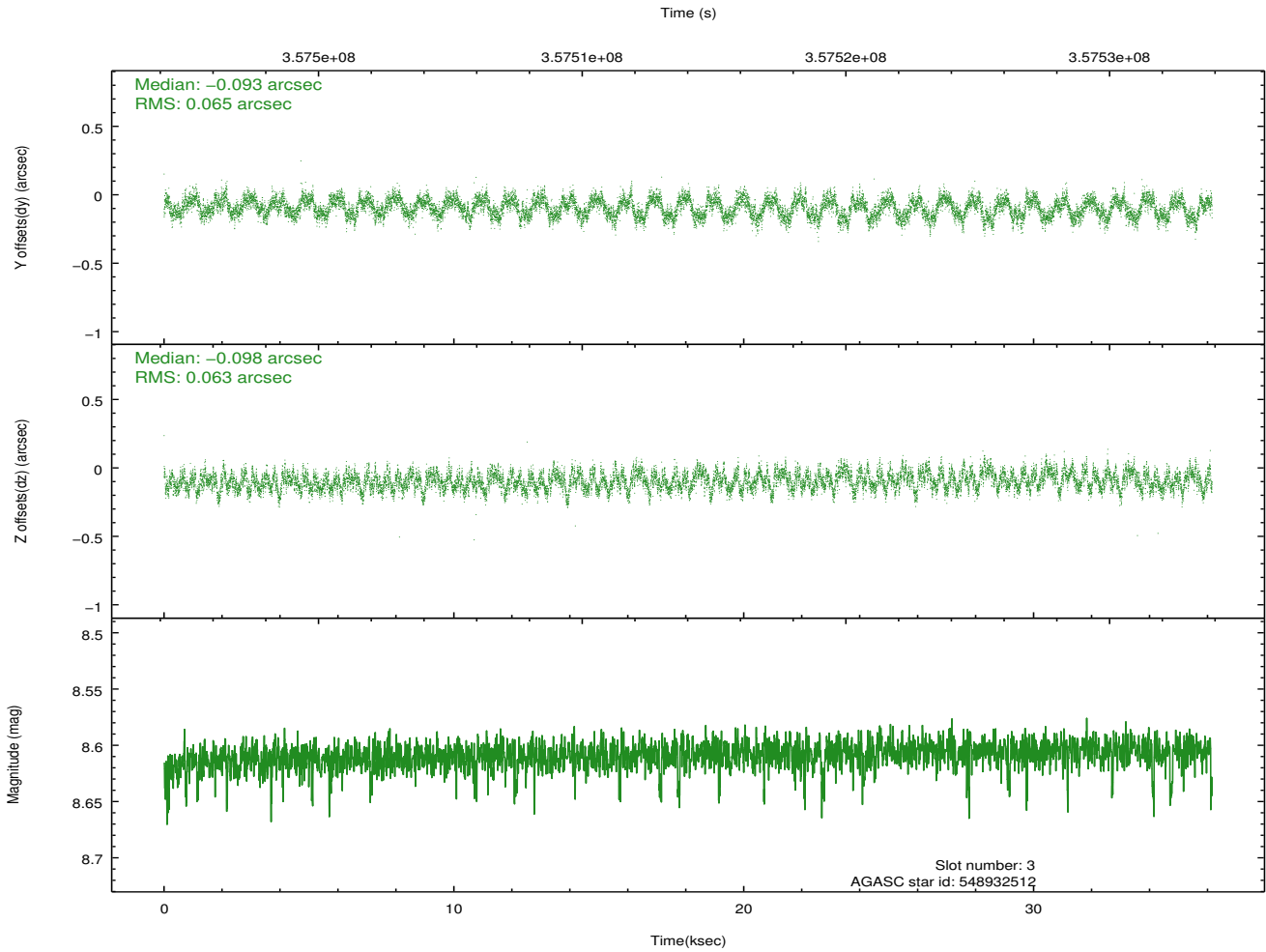
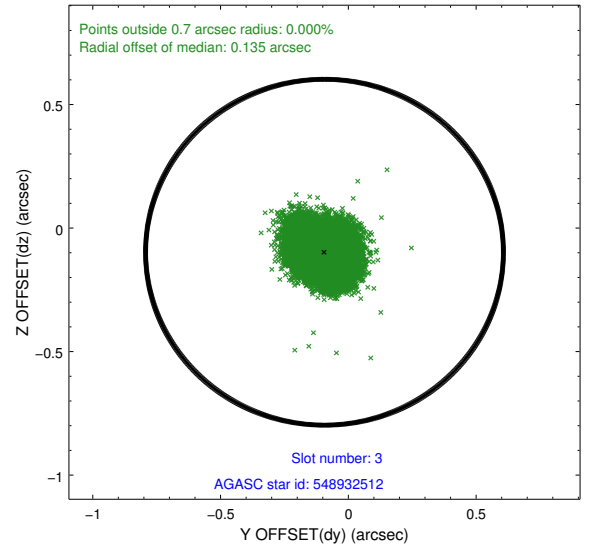
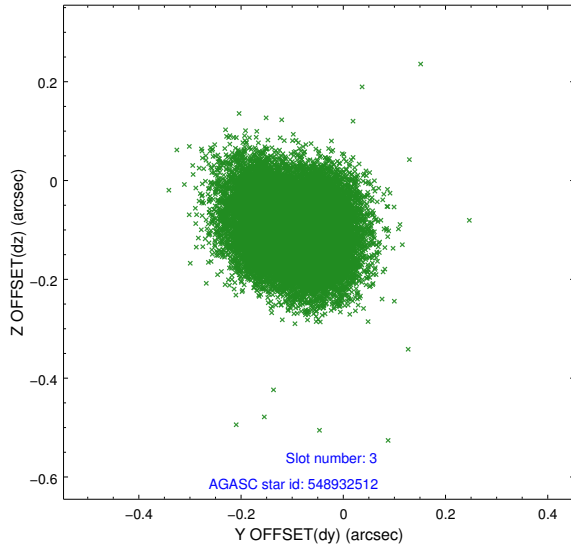
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.06	8818	0.073	-0.031	0.011	0.019	0.000000	0.000000	930.99	-1730.97
1	FID	ACIS-S-5	7.09	8818	-0.105	0.058	0.017	0.045	0.000000	0.000000	-1818.18	166.63
2	FID	ACIS-S-6	7.19	8819	0.011	-0.017	0.018	0.052	0.000000	0.000000	396.44	810.57
3	GUIDE	548932512	8.61	17628	-0.093	-0.098	0.097	0.150	239.727627	66.054972	-1236.58	756.53
4	GUIDE	548933960	8.47	17627	0.096	-0.031	0.104	0.155	237.671184	66.428675	2007.95	336.02
5	GUIDE	548937184	9.86	17607	0.013	0.055	0.203	0.322	238.771821	66.565432	631.92	-583.83
6	GUIDE	548939872	10.31	17574	-0.038	-0.022	0.242	0.365	238.964867	66.978384	805.12	-2085.71
7	GUIDE	549849072	9.23	17616	0.039	0.071	0.110	0.178	240.420863	66.802816	-1346.78	-2112.27

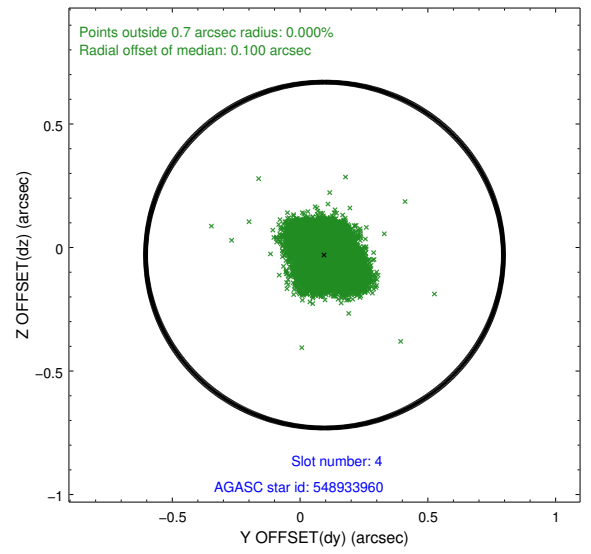
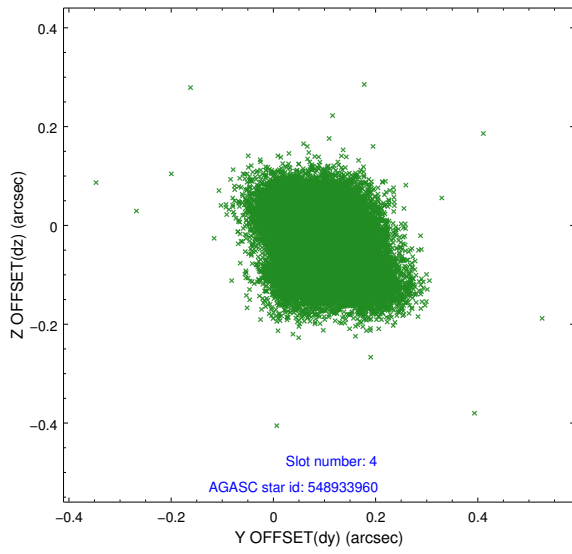
∞

2.4 Star Slots

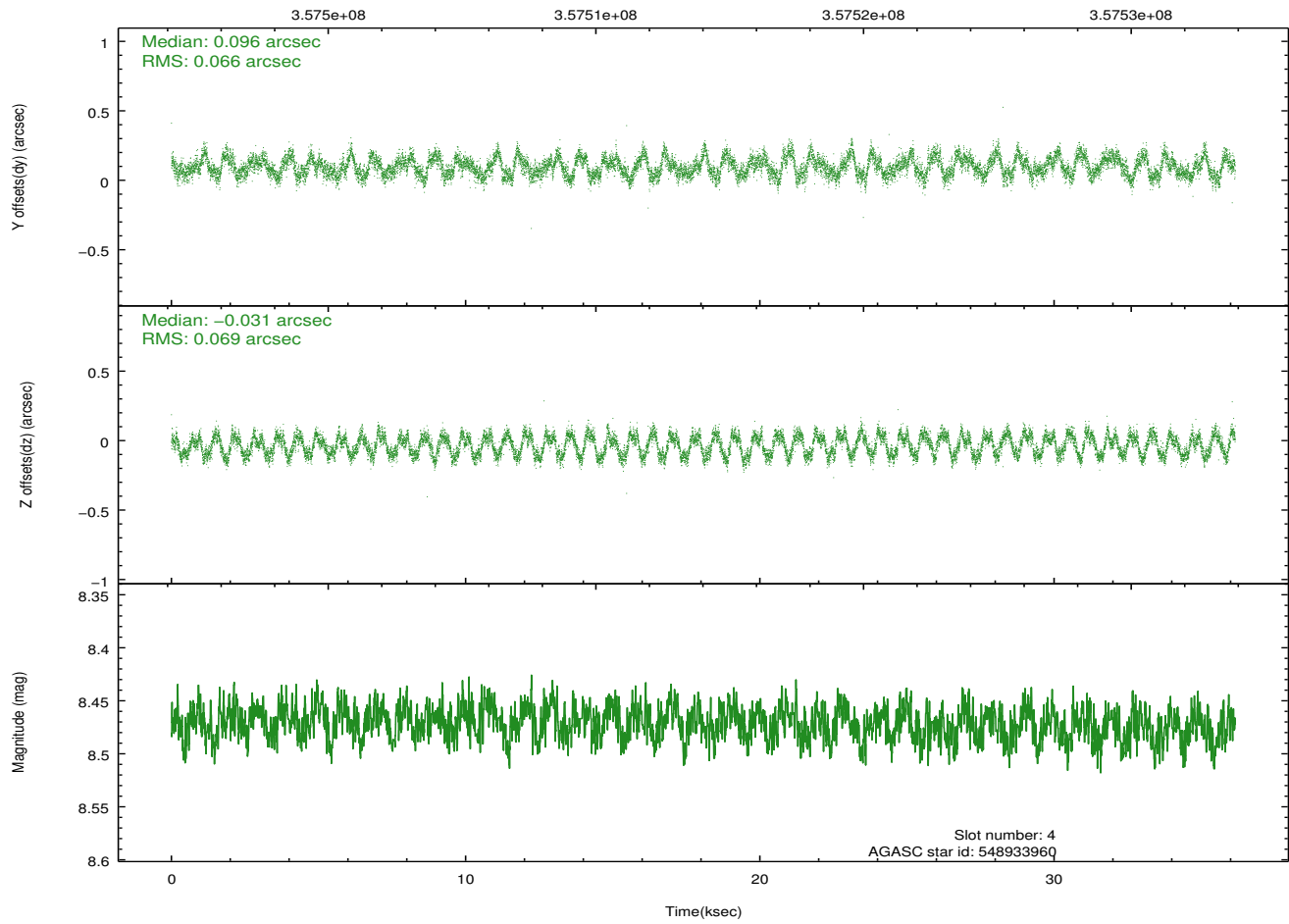
2.4.1 Slot 3



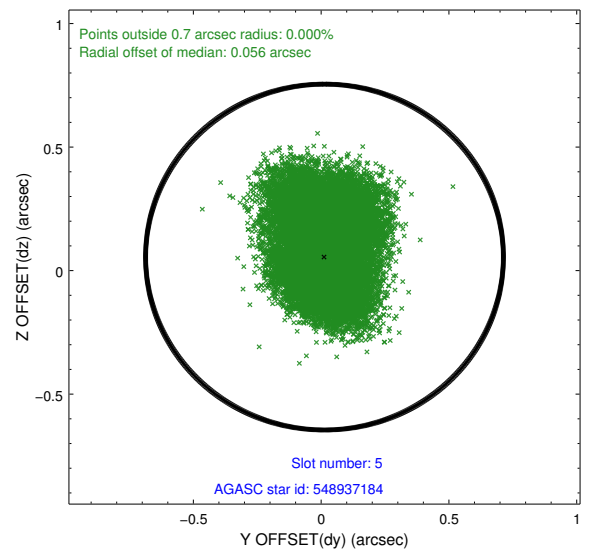
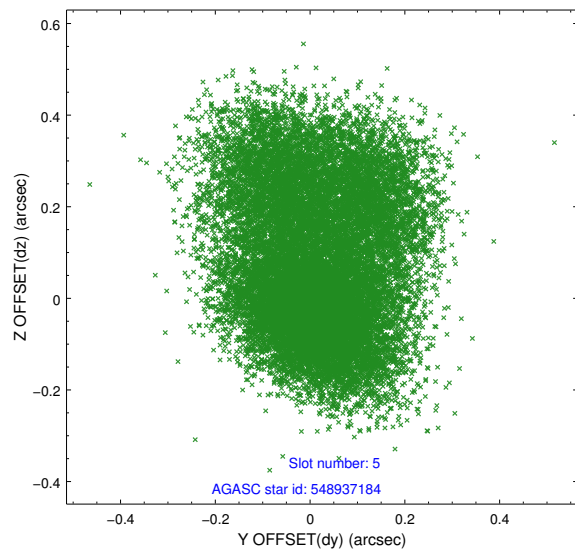
2.4.2 Slot 4



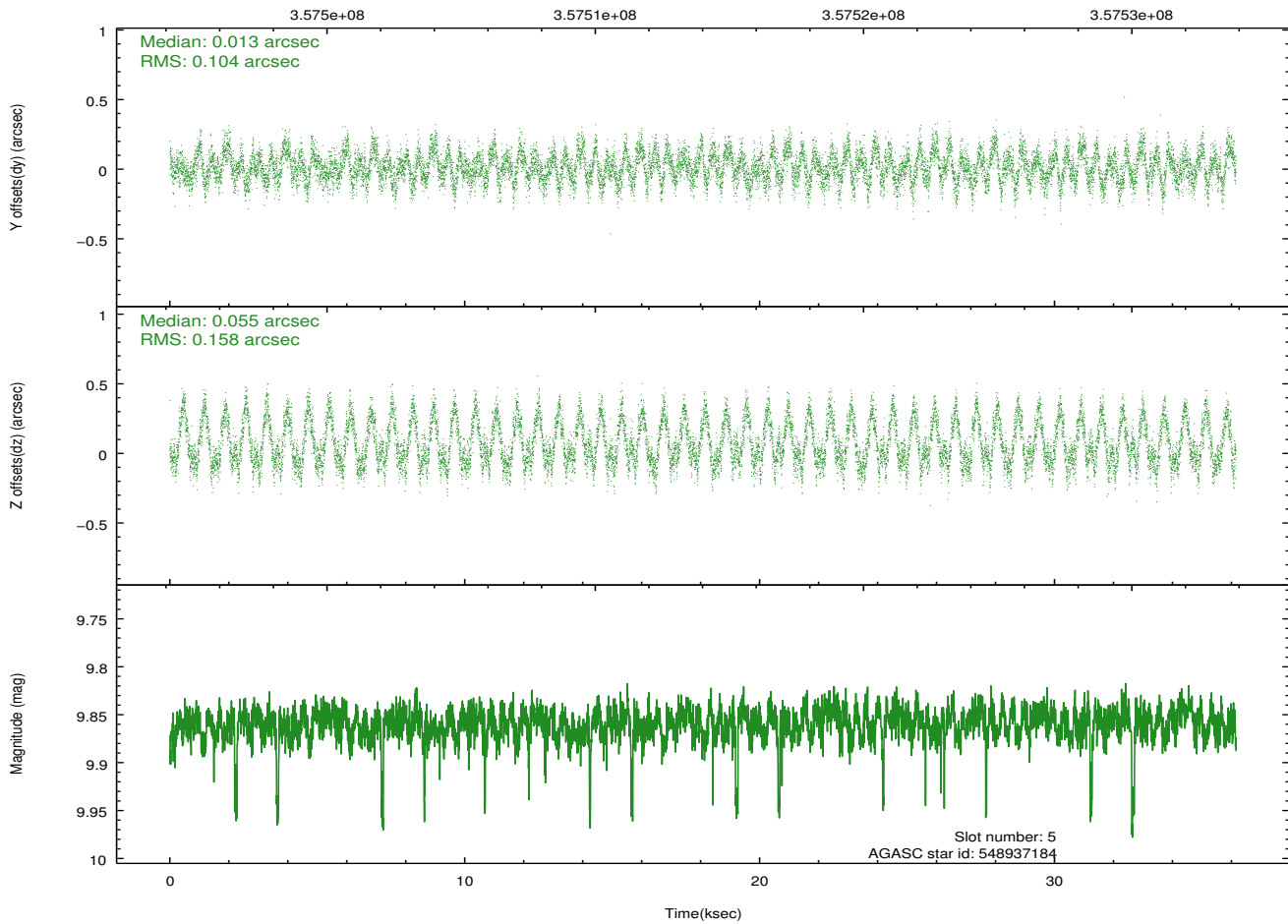
Time (s)



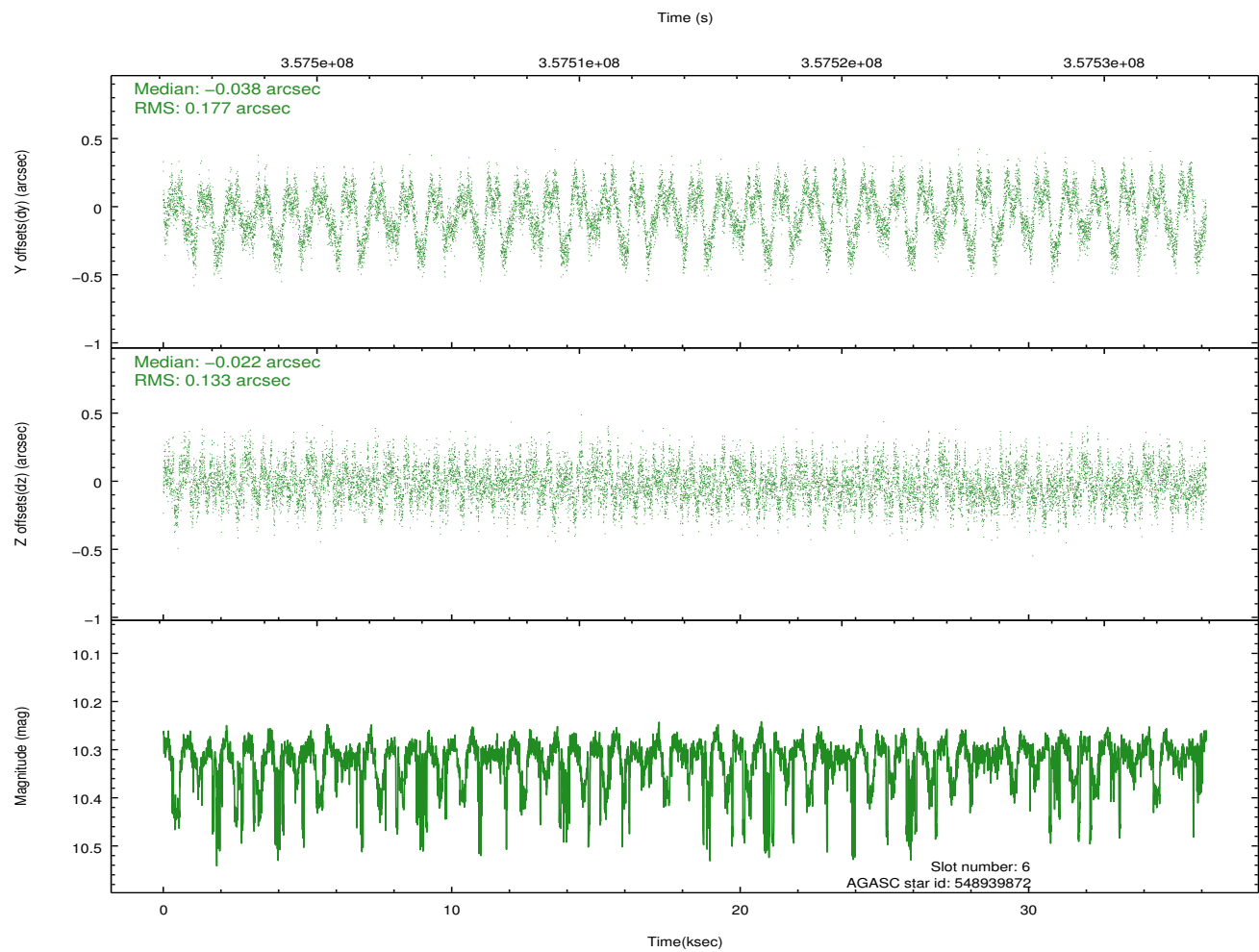
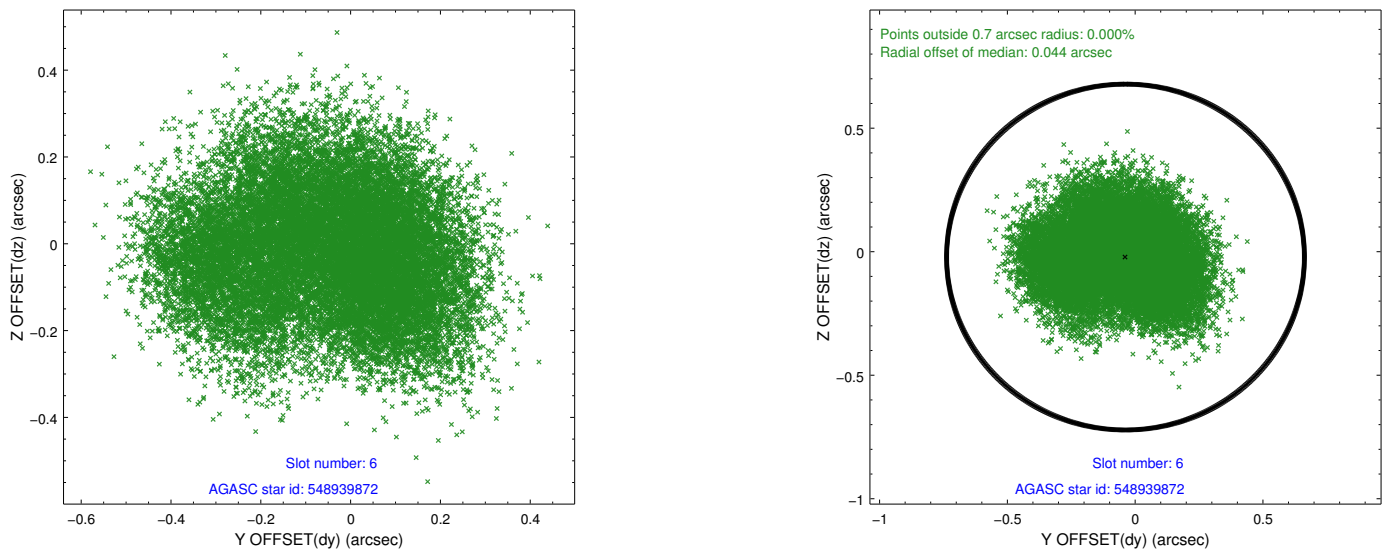
2.4.3 Slot 5



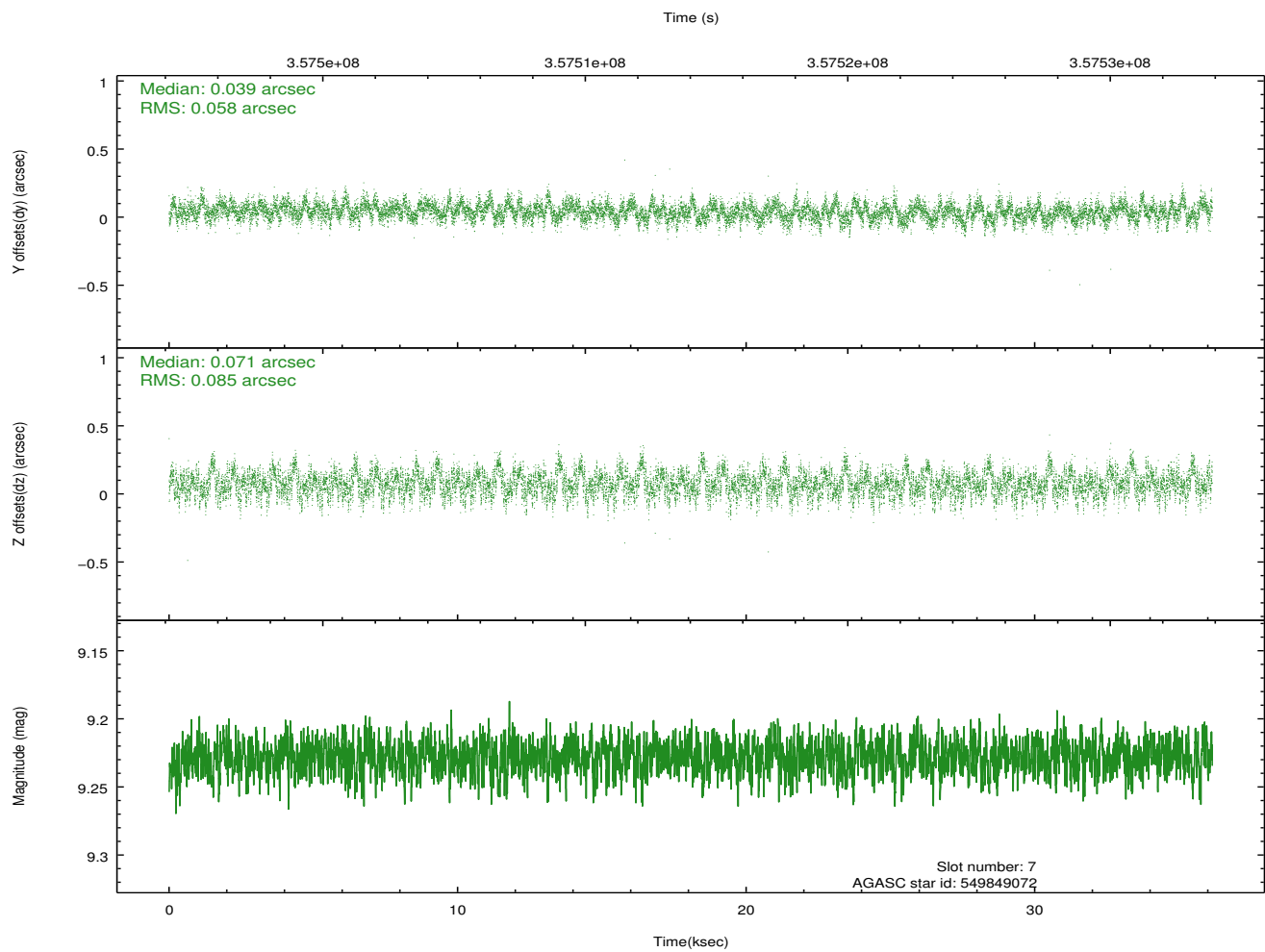
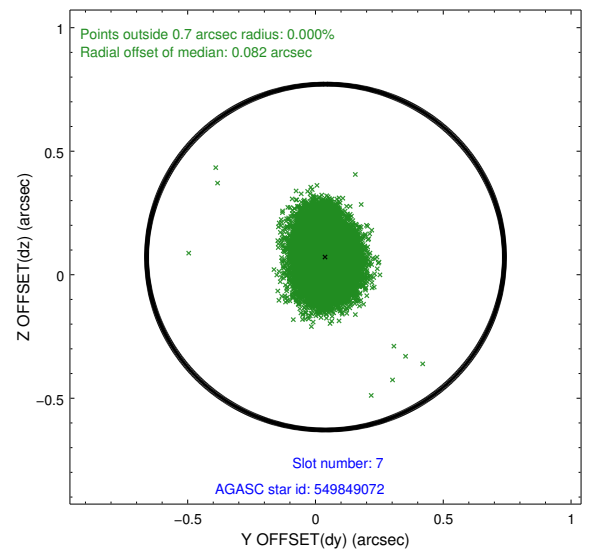
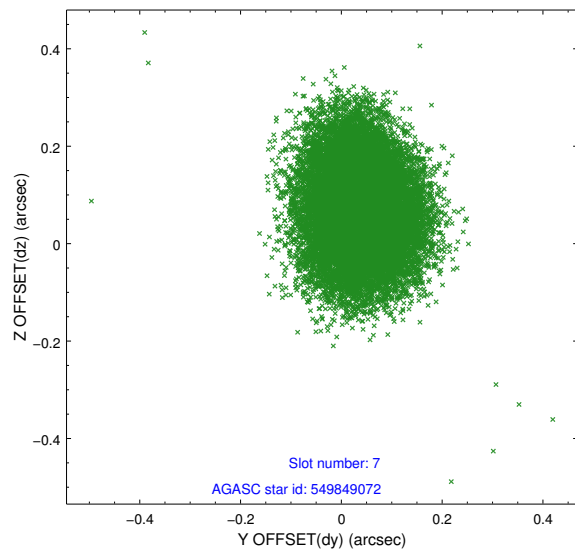
Time (s)



2.4.4 Slot 6

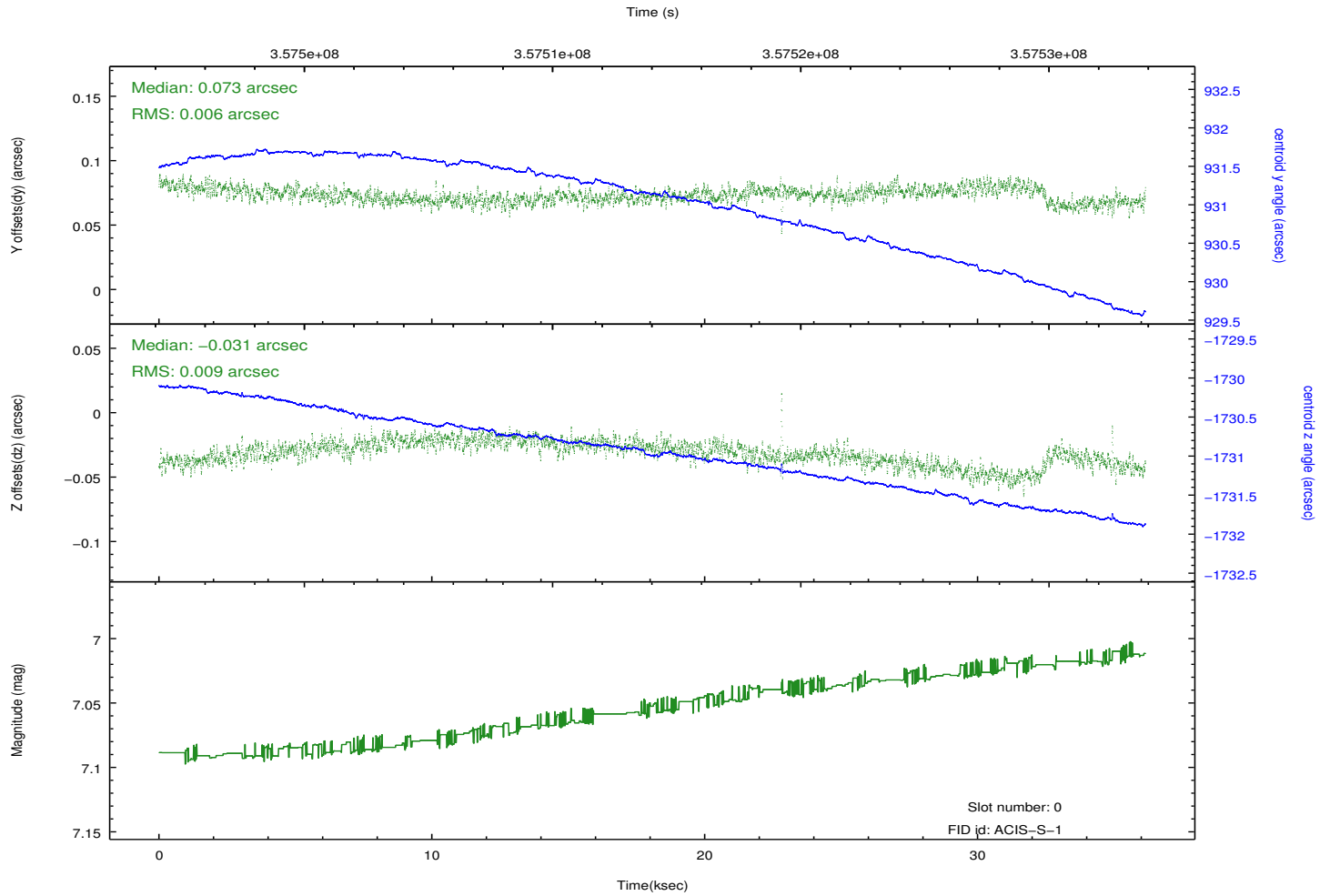
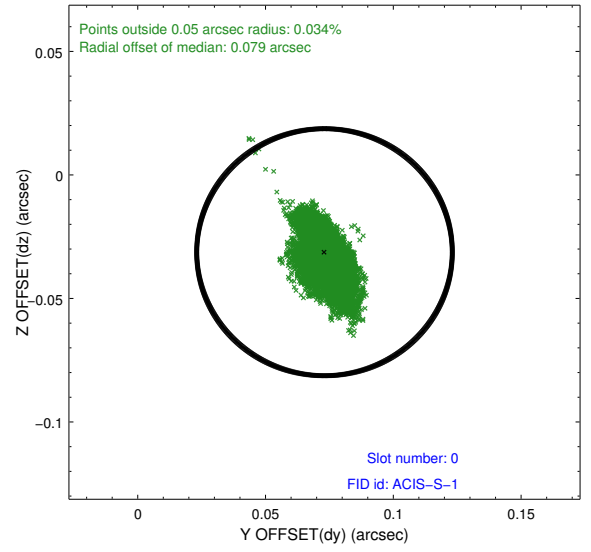
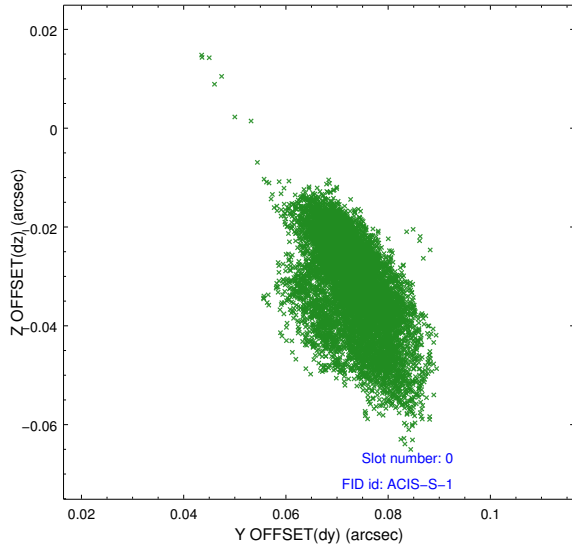


2.4.5 Slot 7

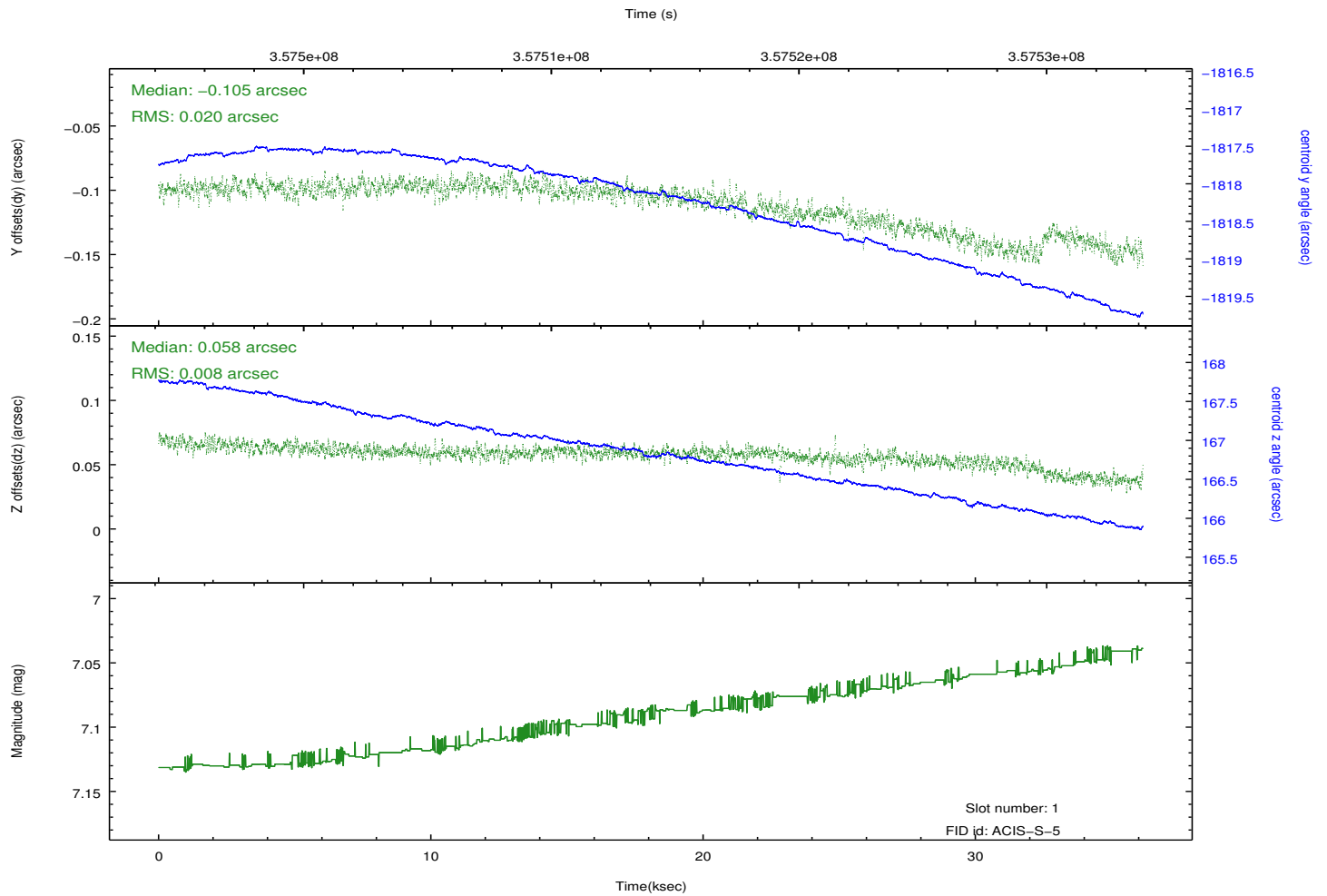
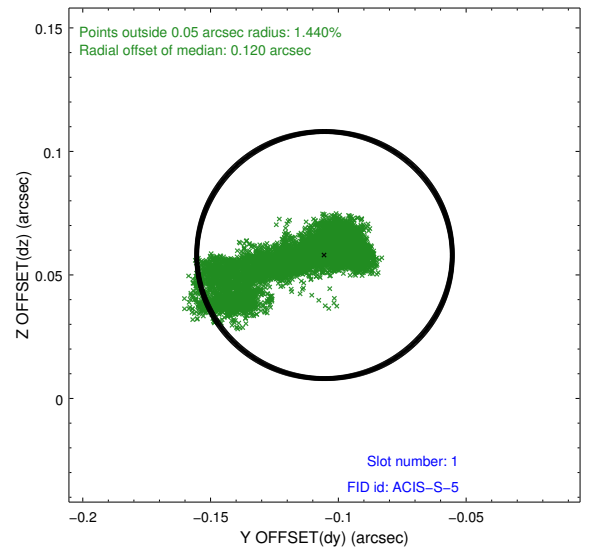
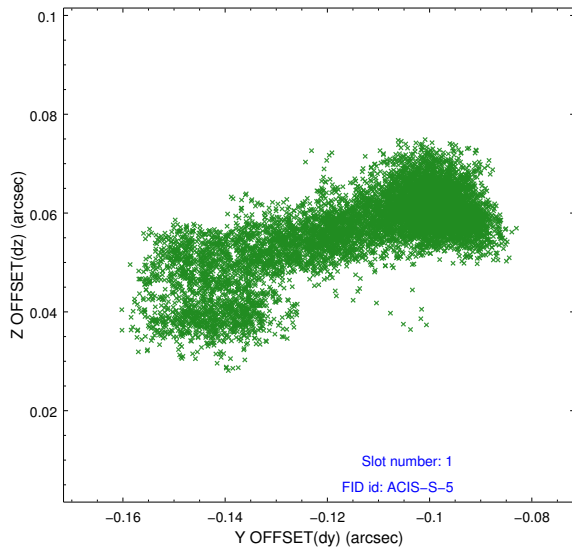


2.5 FID Slots

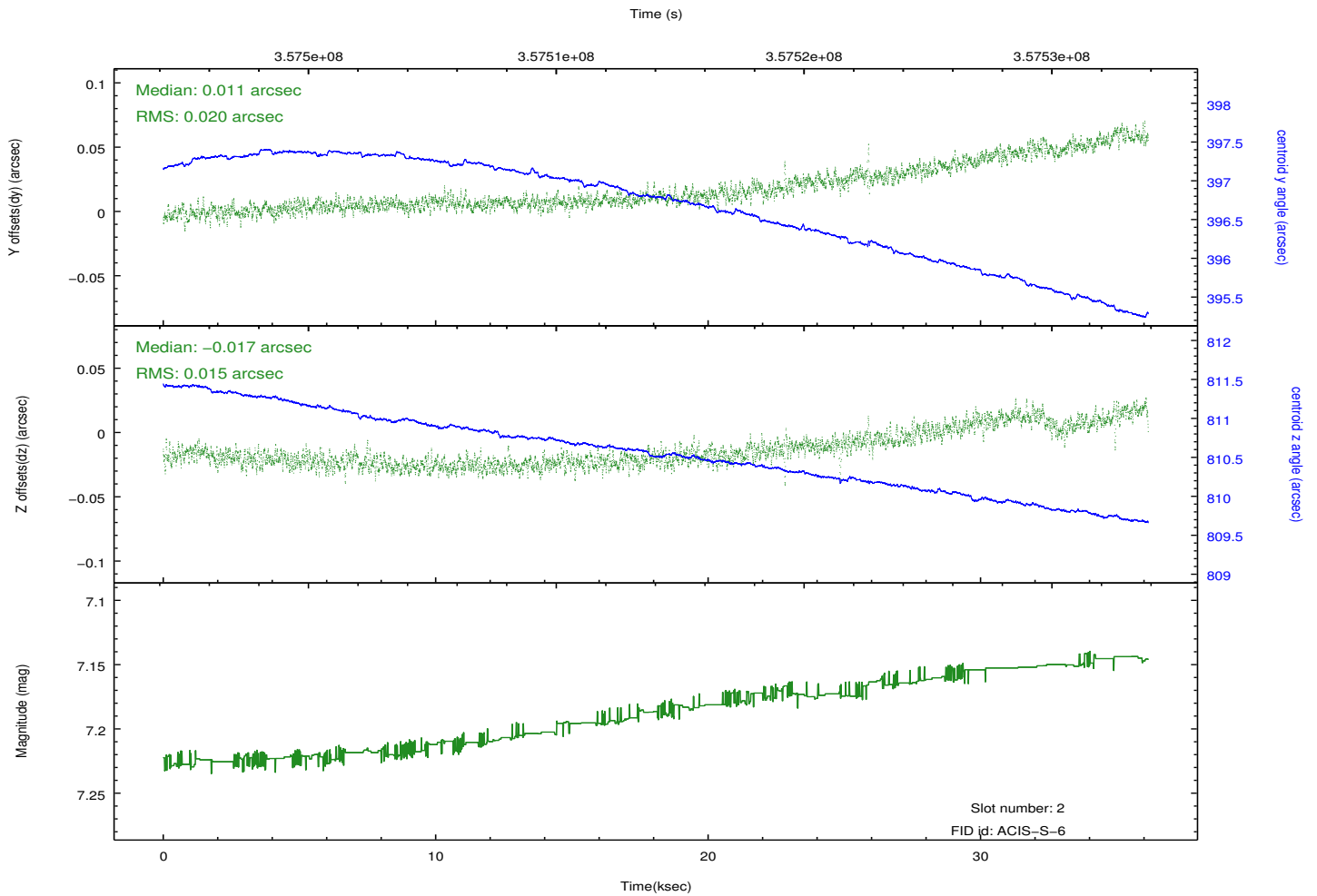
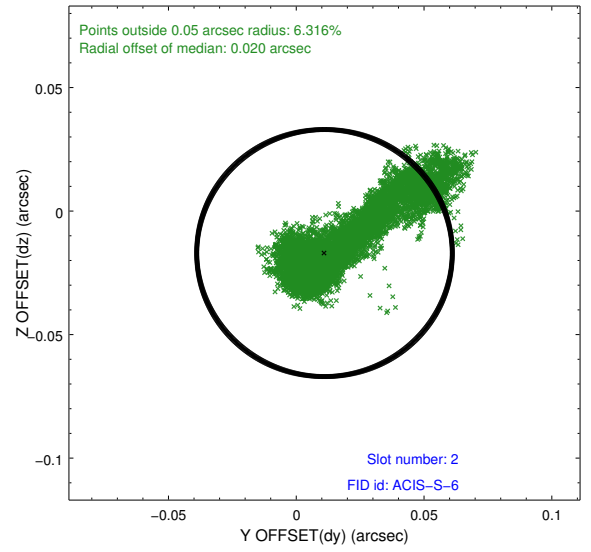
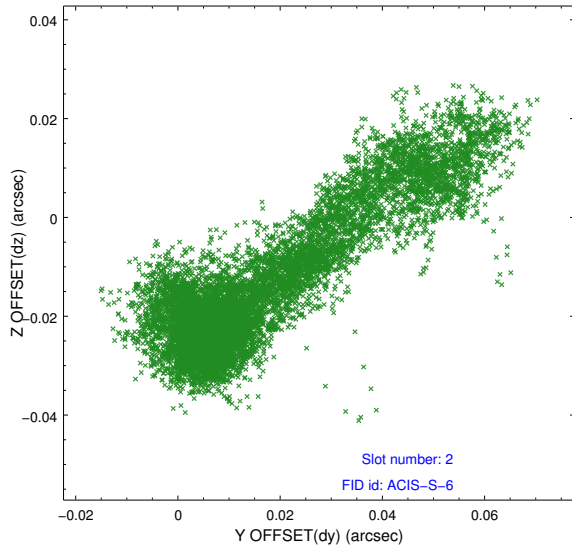
2.5.1 Slot 0



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)	2012.07.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.1491002

A.2 Comments