

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7446 - L2 Version 2
Chandra X-Ray Center

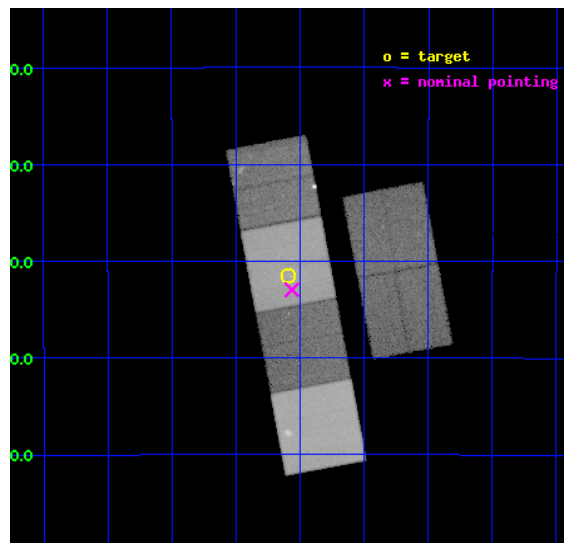
L2 Processing Date : May 1 2012

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1 Front

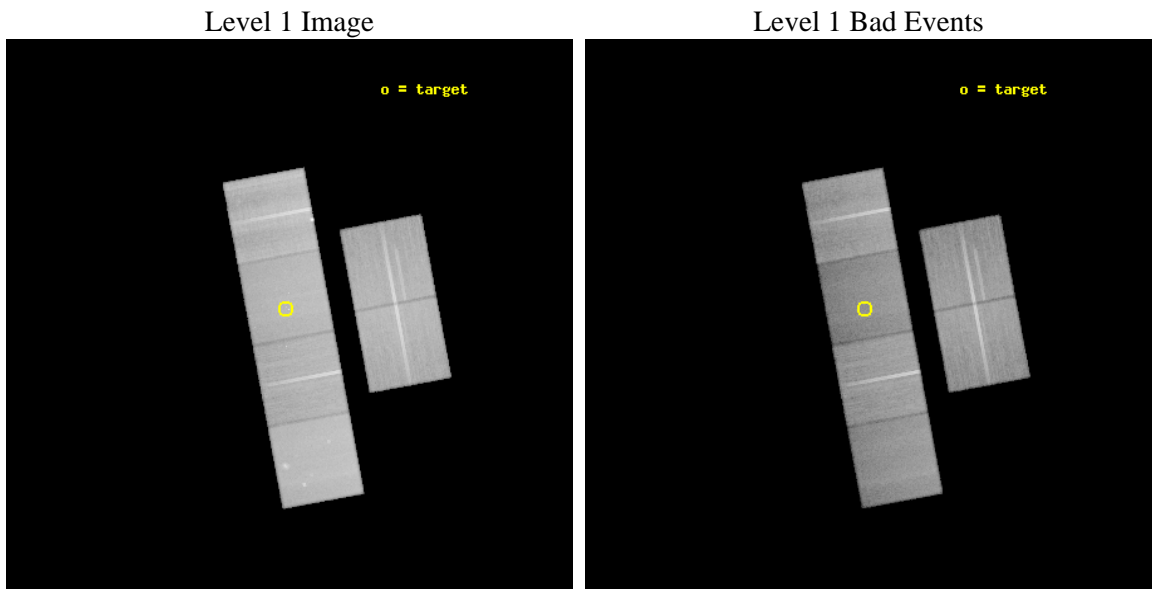
seq_num	200456	Sequence number
obs_id	7446	Observation id
title	Deep Chandra Observations of The Nearest Globular Cluster: Obtaining a Complete Sample of Primordial Binaries	Proposal title
observer	Prof. David Pooley	Principal investigator
object	M4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	245.897917	Observer's specified target RA [deg]
dec_targ	-26.525278	Observer's specified target Dec [deg]
ra_nom	245.89092267589	Nominal RA [deg]
dec_nom	-26.5495547508	Nominal Dec [deg]
roll_nom	259.39072003285	Nominal Roll [deg]
revision	2	Processing version of data
ontime	48540.799819231	Sum of GTIs [s]
livetime	47926.146984159	Livetime [s]
ontime2	48534.317868531	Sum of GTIs [s]
ontime3	48540.799819231	Sum of GTIs [s]
ontime5	48540.799819231	Sum of GTIs [s]
ontime6	48537.558848917	Sum of GTIs [s]
ontime7	48540.799819231	Sum of GTIs [s]
ontime8	48537.558818996	Sum of GTIs [s]
l2events	611274	Number of level 2 events



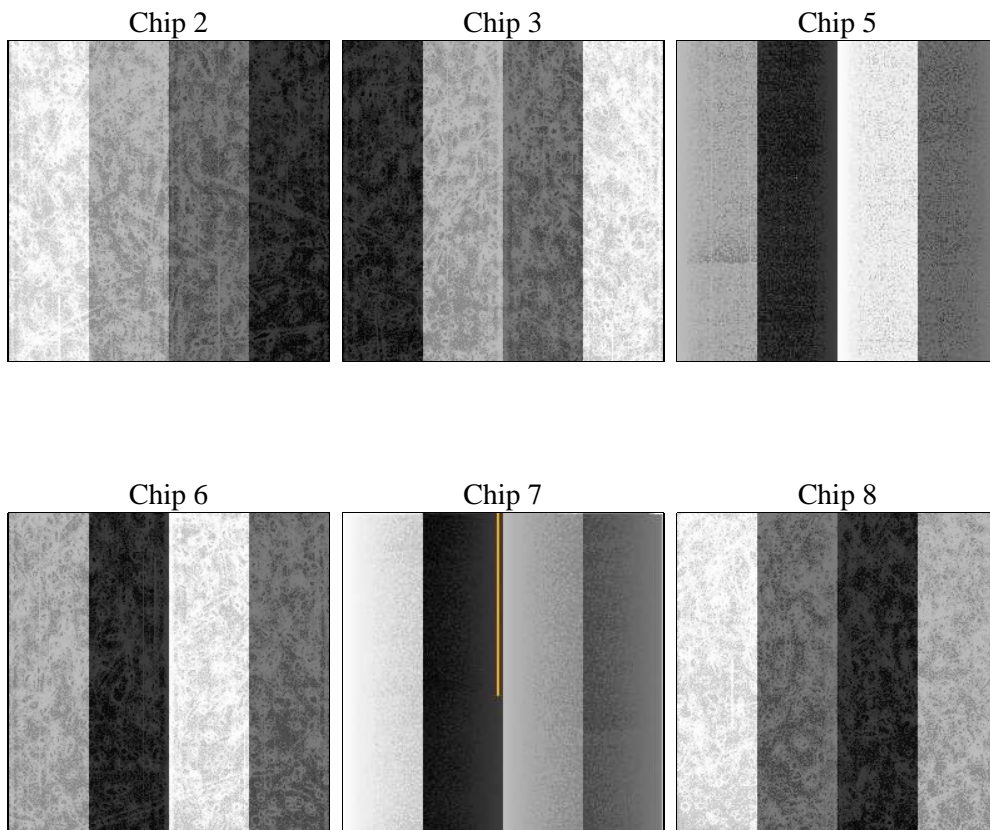
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	48500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	48540.799819231	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	48534.317868531	Sum of GTIs [s]
date	2012-05-01T06:57:26	Date and time of file creation	ontime3	48540.799819231	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	48540.799819231	Sum of GTIs [s]
			ontime6	48537.558848917	Sum of GTIs [s]
			ontime7	48540.799819231	Sum of GTIs [s]
			ontime8	48537.558818996	Sum of GTIs [s]
			l1events	2716619	Number of level 1 events

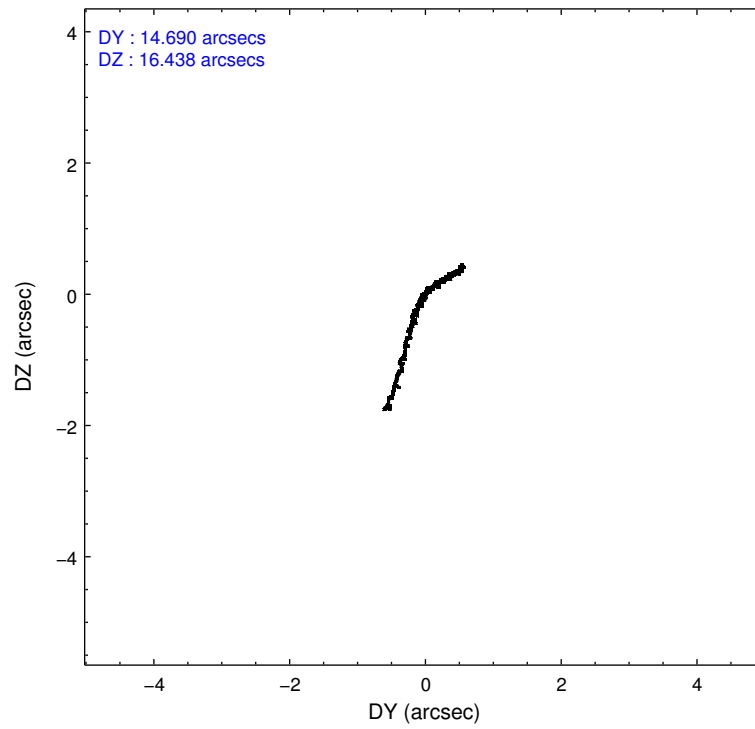
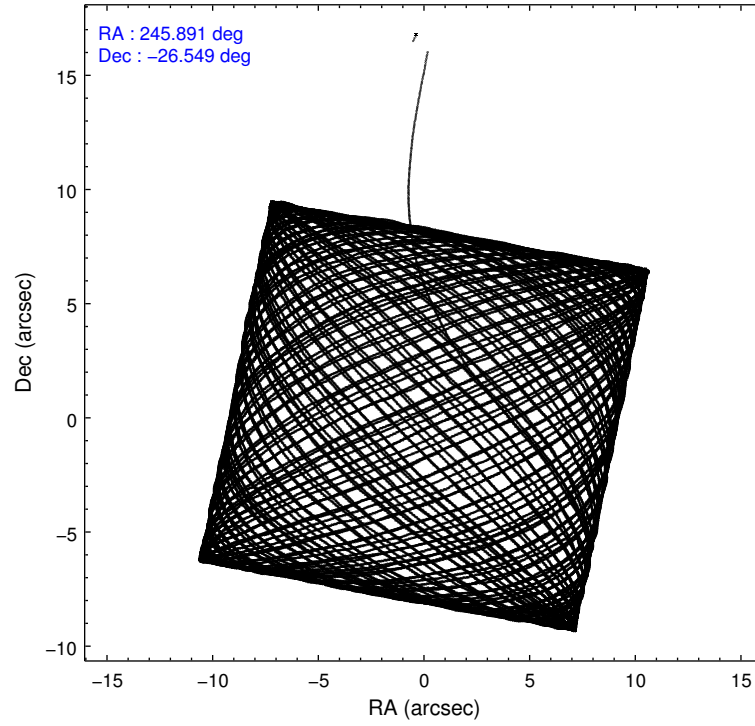
2.1.4 Events

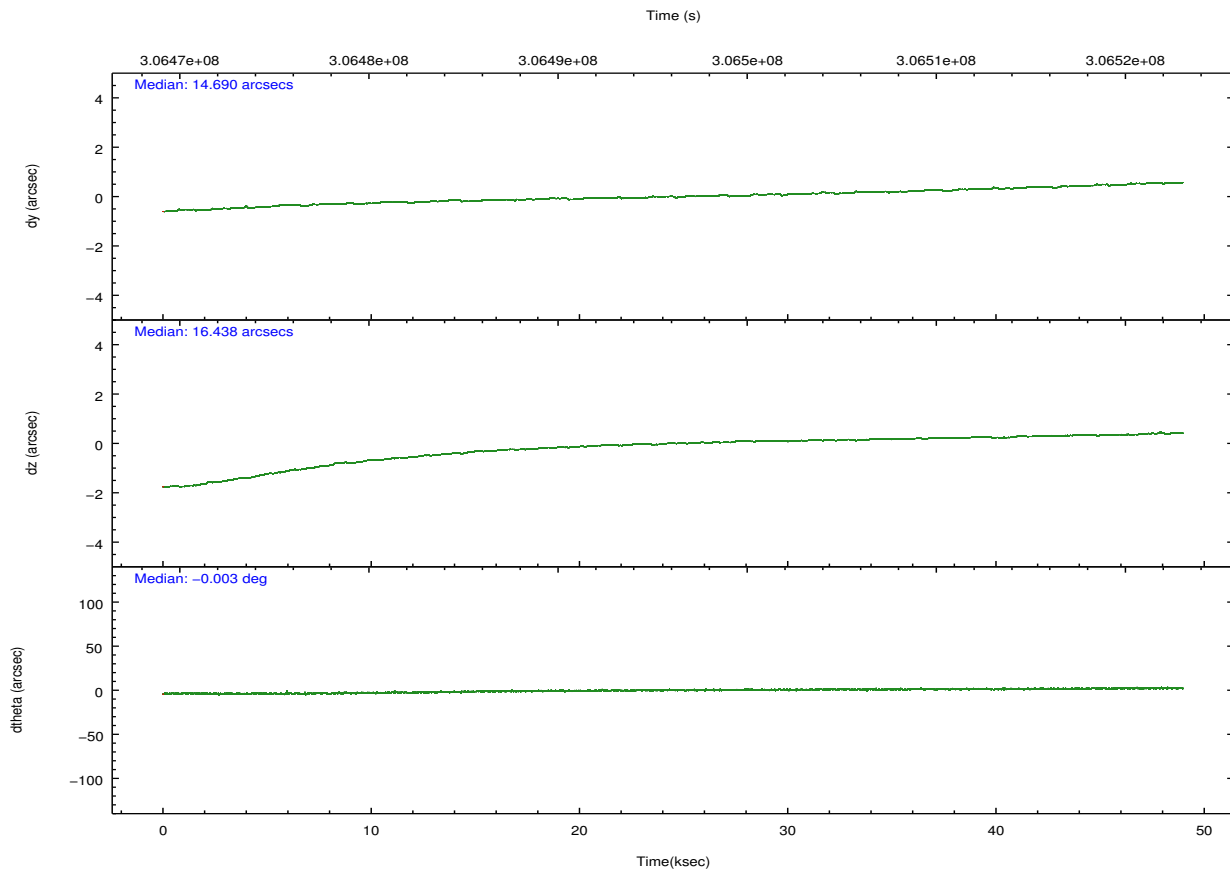
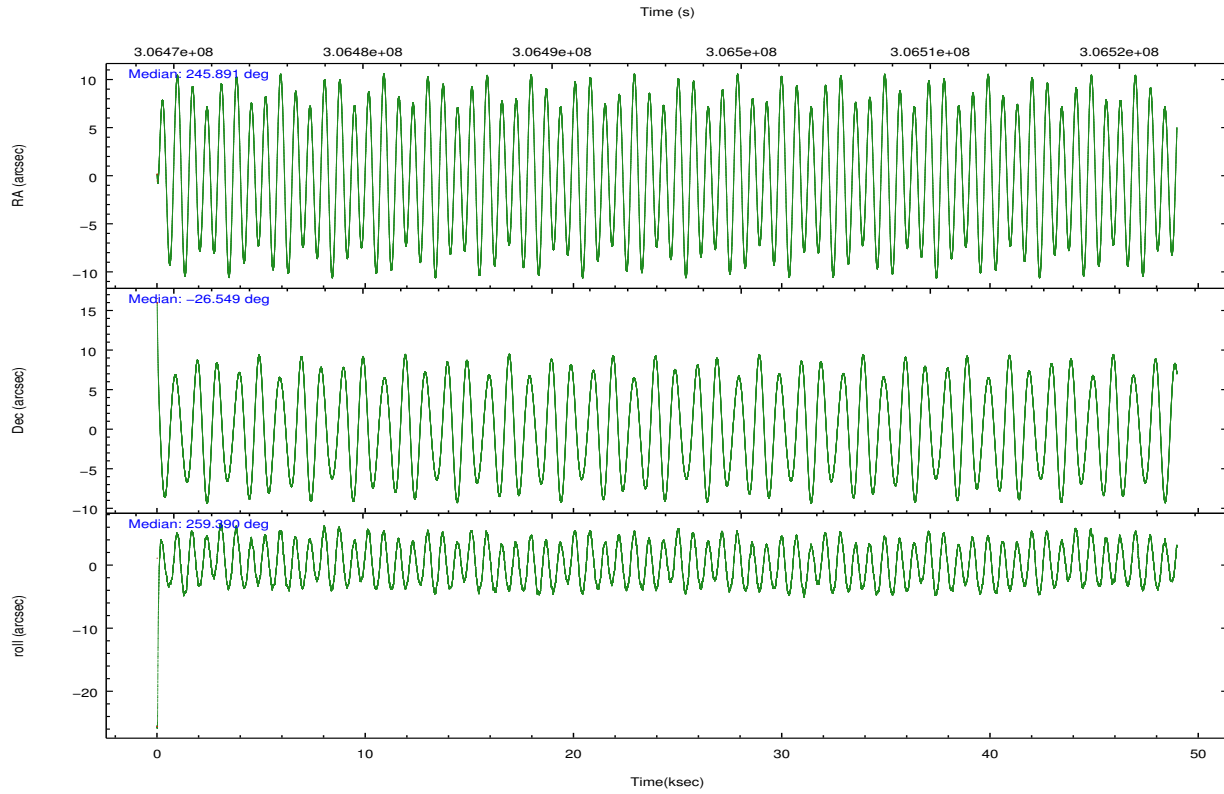
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	420001	387771	541627	408691	444605	513924	grade 0 events	13856	13599	22877	15255	19959	42123
rejected events	381750	350432	272429	366407	238996	384516		3%	3%	4%	3%	4%	8%
rejected %	90%	90%	50%	89%	53%	74%	grade 1 events	233	210	933	186	553	448
								0%	0%	0%	0%	0%	0%
							grade 2 events	9259	8068	80467	9154	42124	29130
								2%	2%	14%	2%	9%	5%
							grade 3 events	4101	4183	12268	4563	19165	12982
								0%	1%	2%	1%	4%	2%
							grade 4 events	4084	4220	12053	4474	19173	11962
								0%	1%	2%	1%	4%	2%
							grade 5 events	13098	15760	44062	16027	46858	23235
								3%	4%	8%	3%	10%	4%
							grade 6 events	6953	7278	141566	8842	105213	33216
								1%	1%	26%	2%	23%	6%
							grade 7 events	368417	334453	227401	350190	191560	360828
								87%	86%	41%	85%	43%	70%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	245.880391	245.8909226758877	Subarray requested	NONE	NONE
[deg] Pointing Dec	-26.523894	-26.54955475080024	Alternating exposures requested	N	N
[deg] Pointing Roll	259.229400	259.3907200328549	[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)	306472061.184000	306470909.46544			
Observation start date	2007-09-18T03:06:36	2007-09-18T02:48:29			
[s] Observation end time (MET)	306520561.184000	306521254.90536			
Observation end date	2007-09-18T16:34:56	2007-09-18T16:47:34			
Read mode	TIMED	TIMED			

2.3 Aspect



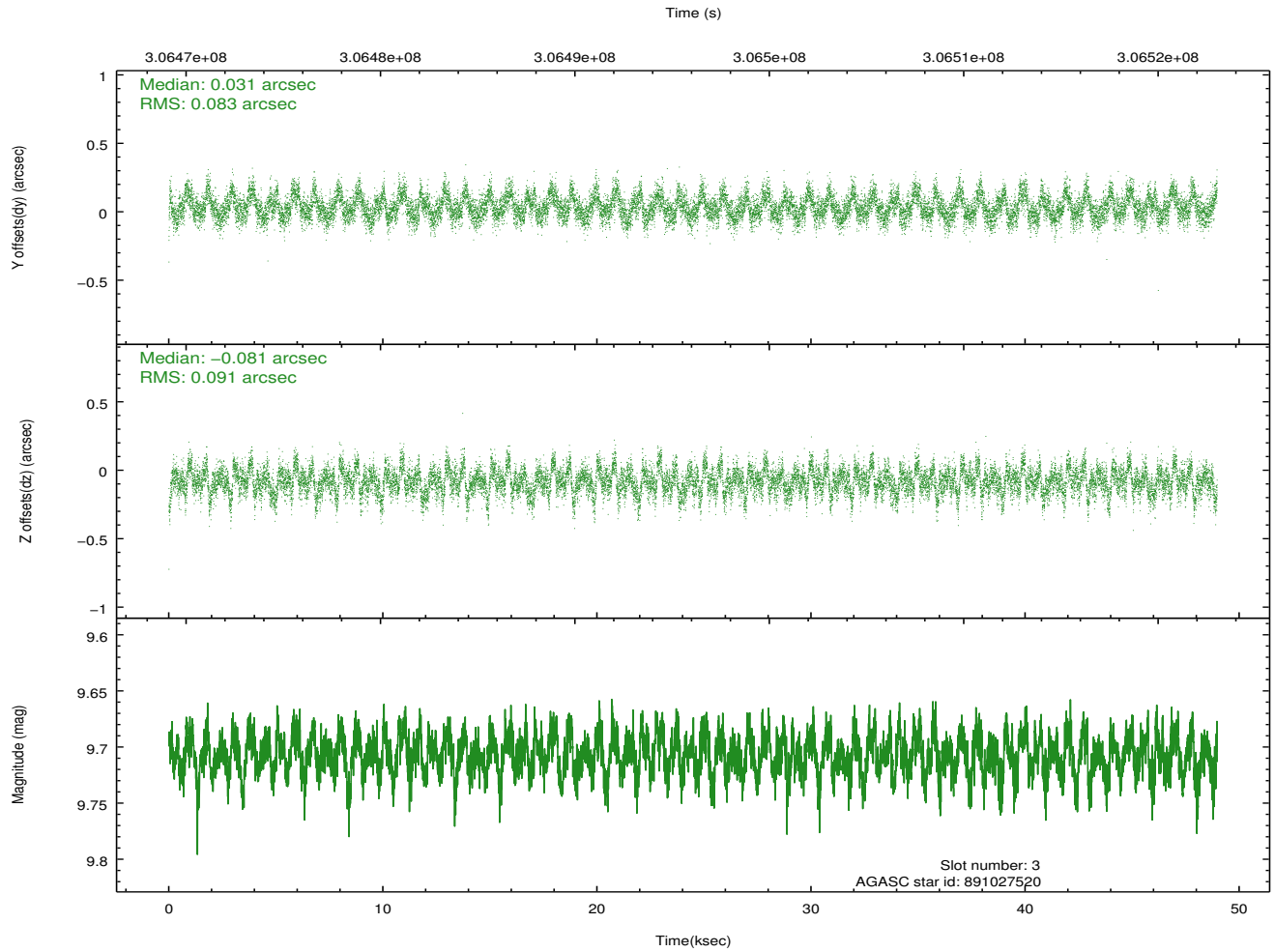
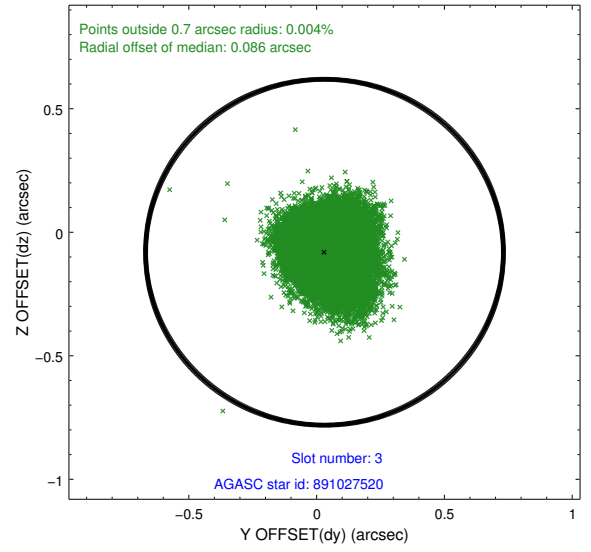
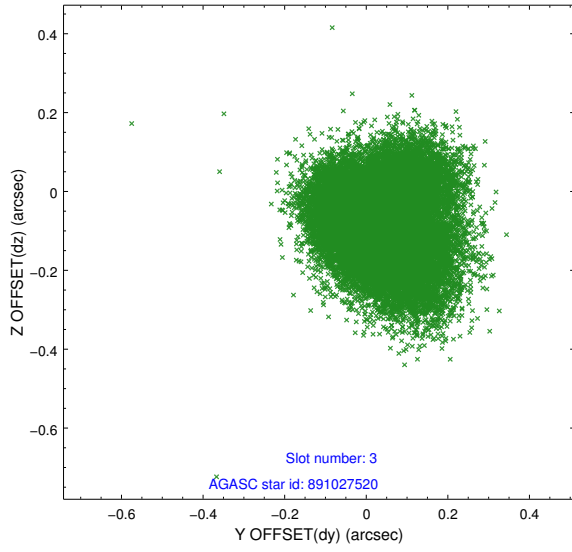


Slot Statistics

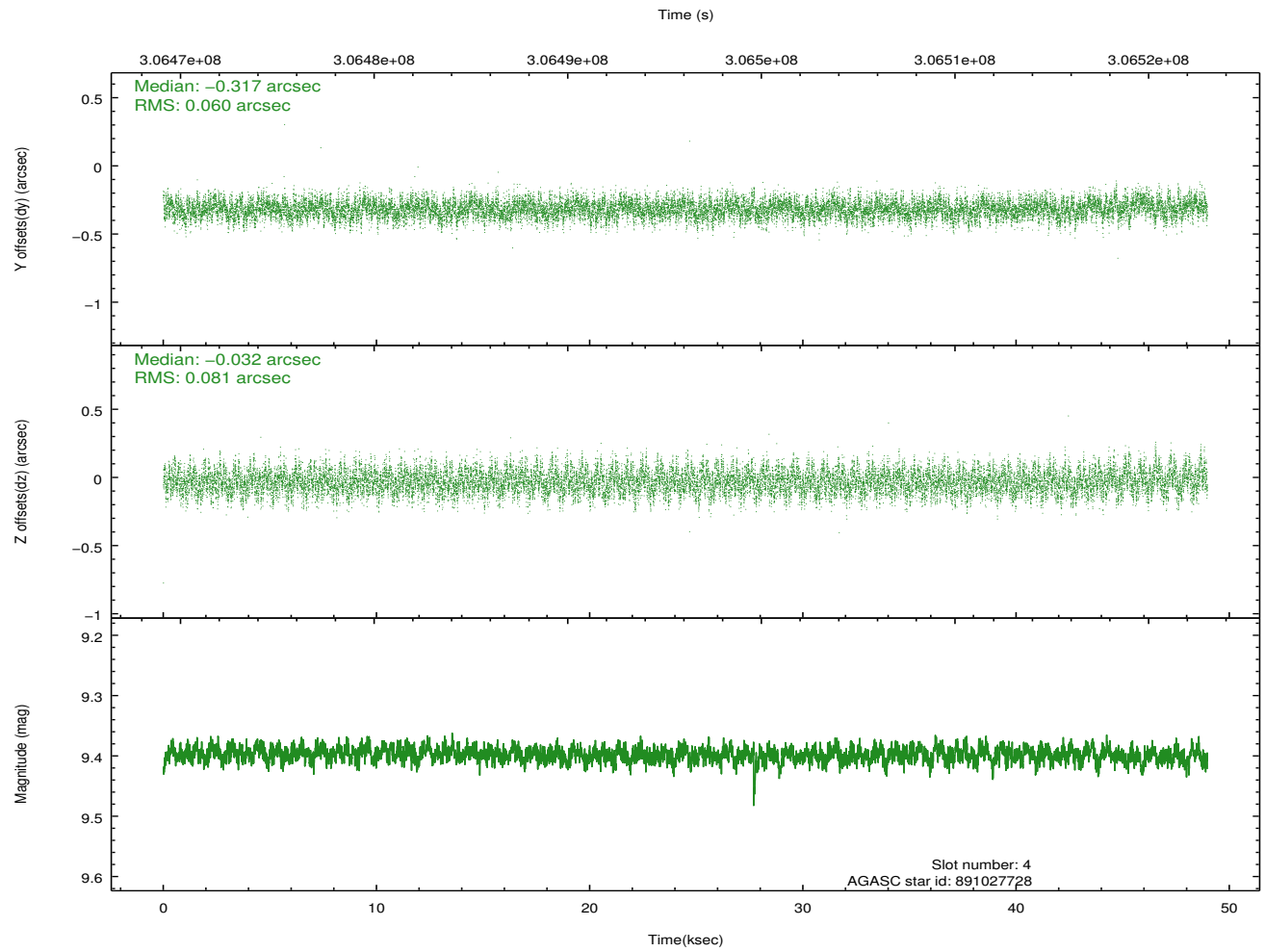
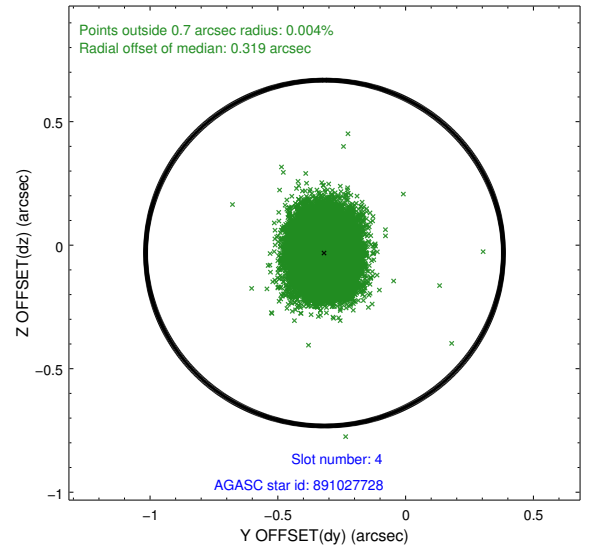
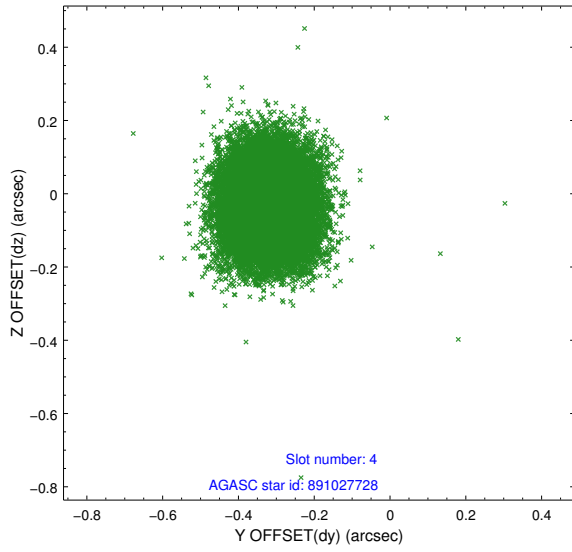
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	11944	-0.078	-0.036	0.011	0.019	0.000000	0.000000	-767.75	-1737.64
1	FID	ACIS-S-4	7.19	11944	0.196	0.047	0.009	0.027	0.000000	0.000000	2145.82	170.91
2	FID	ACIS-S-5	7.22	11943	-0.149	-0.002	0.013	0.025	0.000000	0.000000	-1820.66	164.55
3	GUIDE	891027520	9.71	23853	0.031	-0.081	0.131	0.216	246.024674	-26.131311	-1474.96	194.25
4	GUIDE	891027728	9.40	23860	-0.317	-0.032	0.108	0.173	245.449689	-25.946465	-1779.10	-1757.65
5	GUIDE	891552712	9.12	23869	-0.063	-0.104	0.116	0.178	245.946545	-26.271054	-933.62	39.66
6	GUIDE	891561680	7.79	23882	0.076	0.137	0.072	0.117	246.126760	-27.151147	2072.29	1197.68
7	GUIDE	891561936	9.39	23864	0.264	0.086	0.095	0.161	245.755070	-26.391852	-390.42	-485.60

2.4 Star Slots

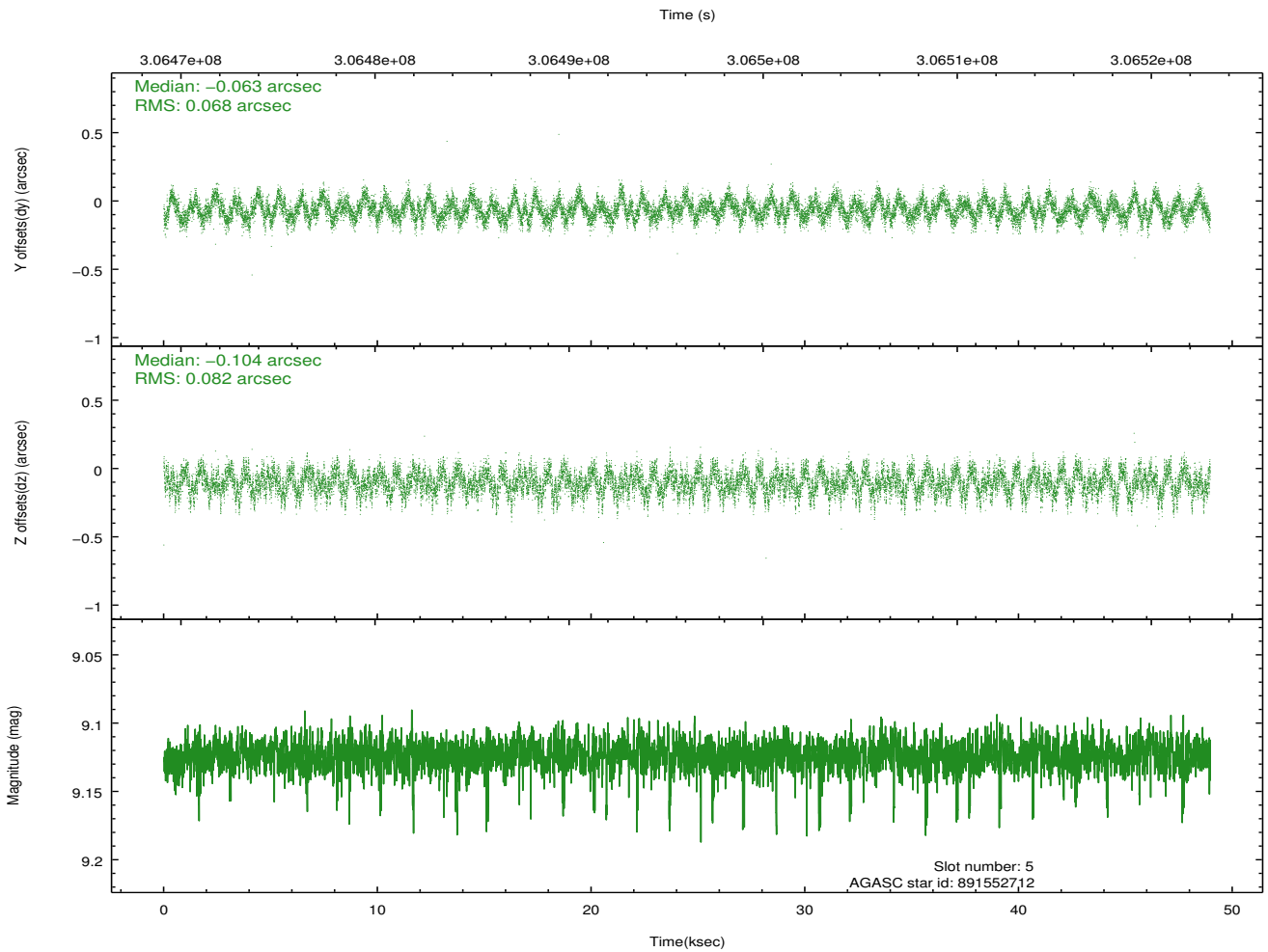
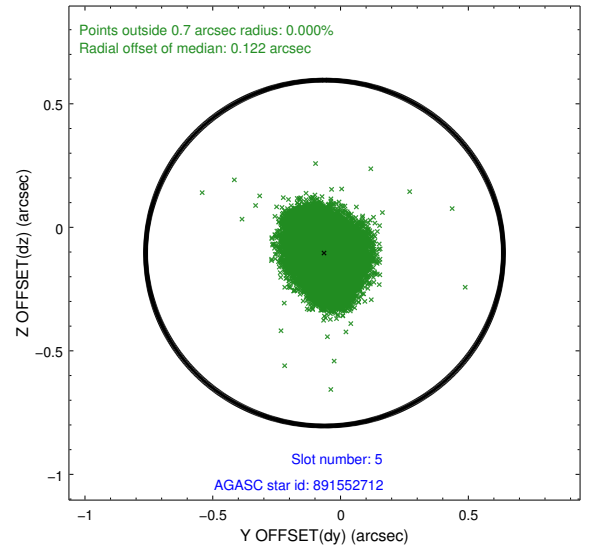
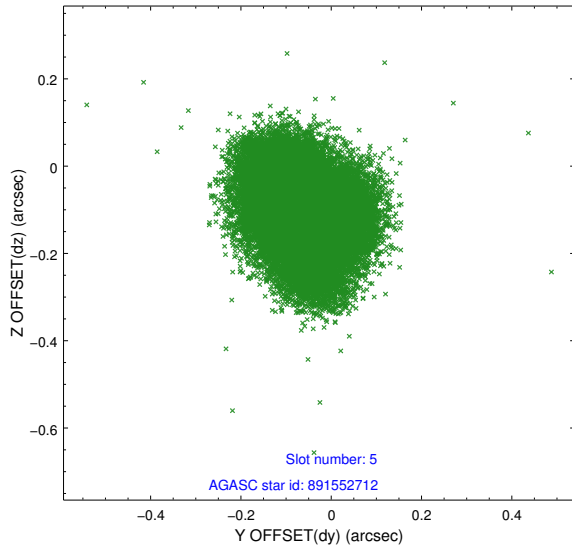
2.4.1 Slot 3



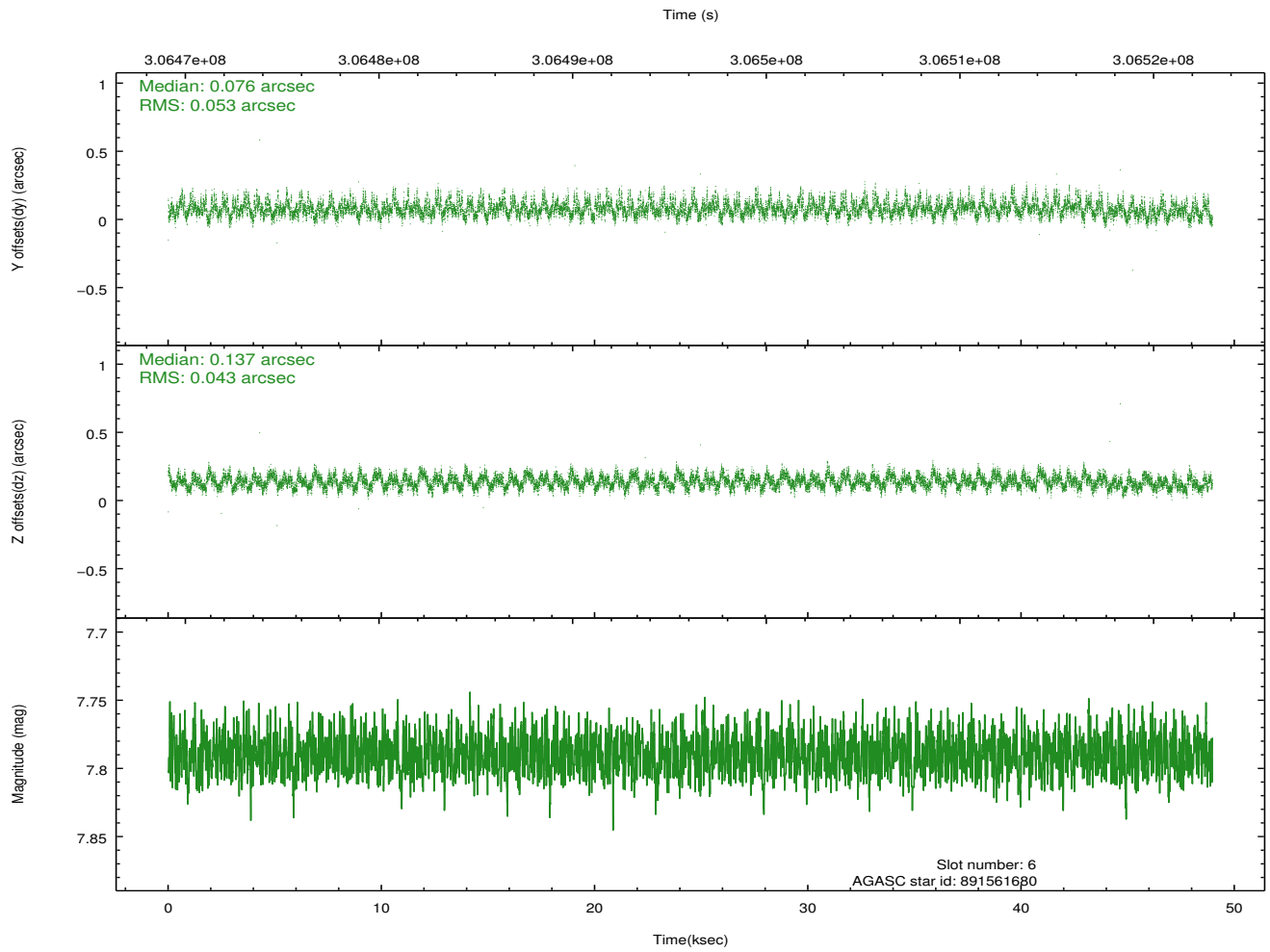
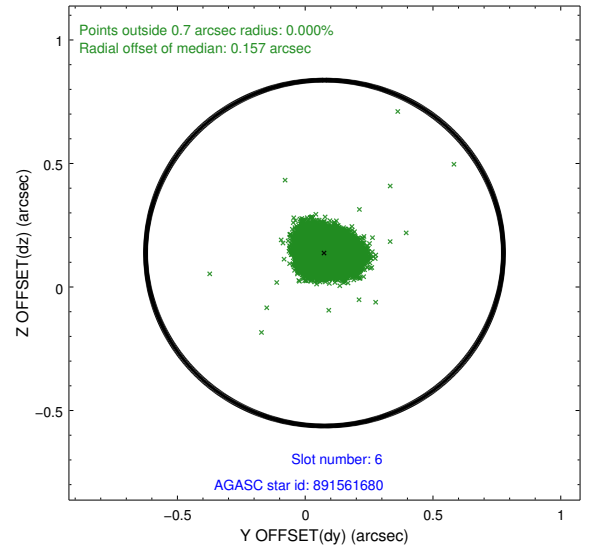
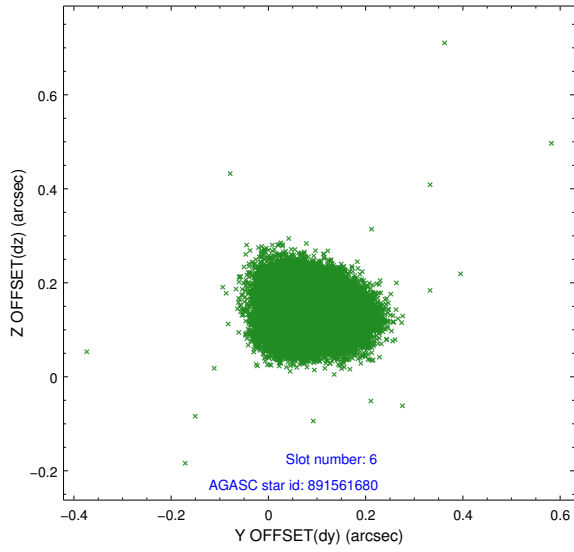
2.4.2 Slot 4



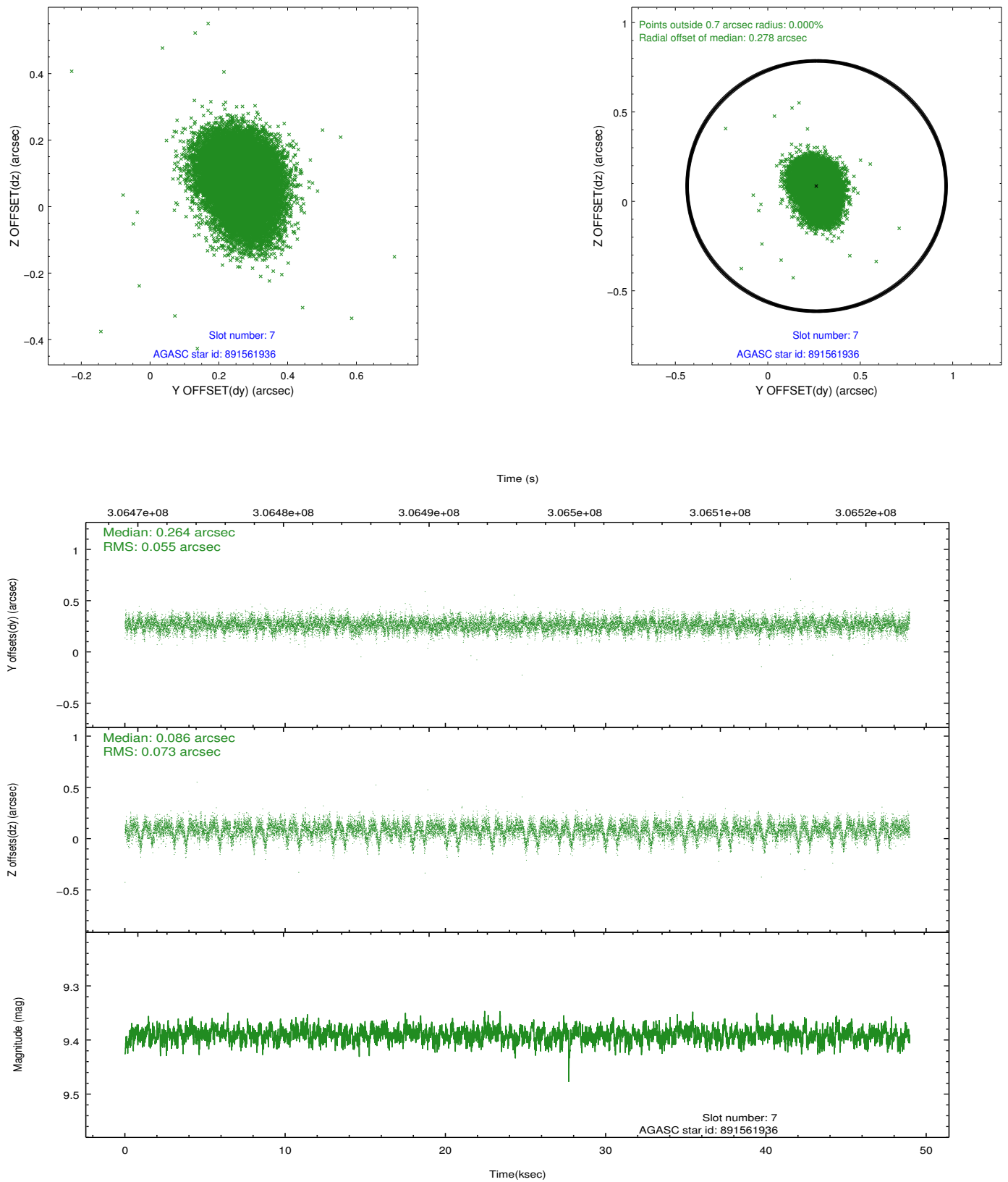
2.4.3 Slot 5



2.4.4 Slot 6

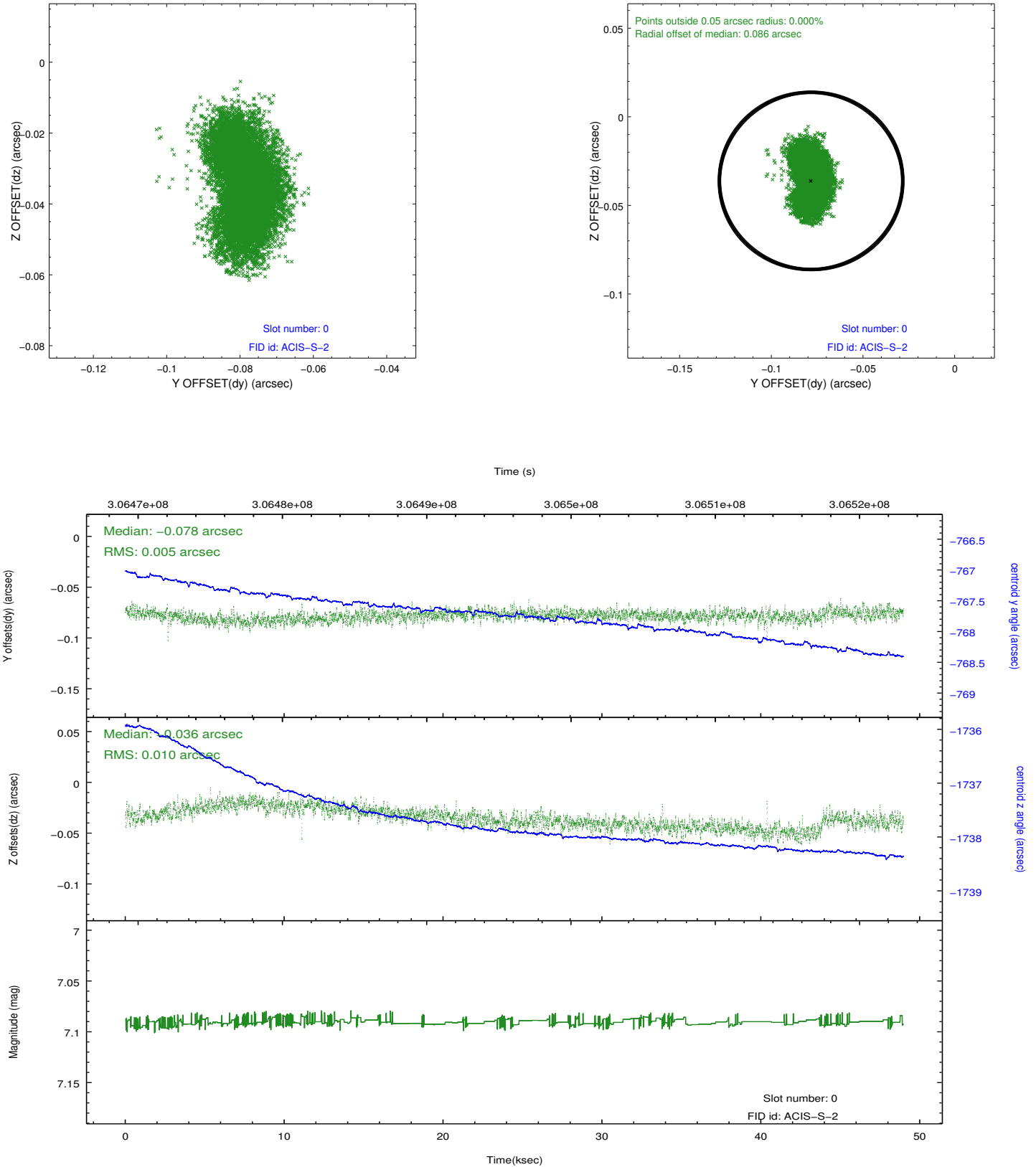


2.4.5 Slot 7

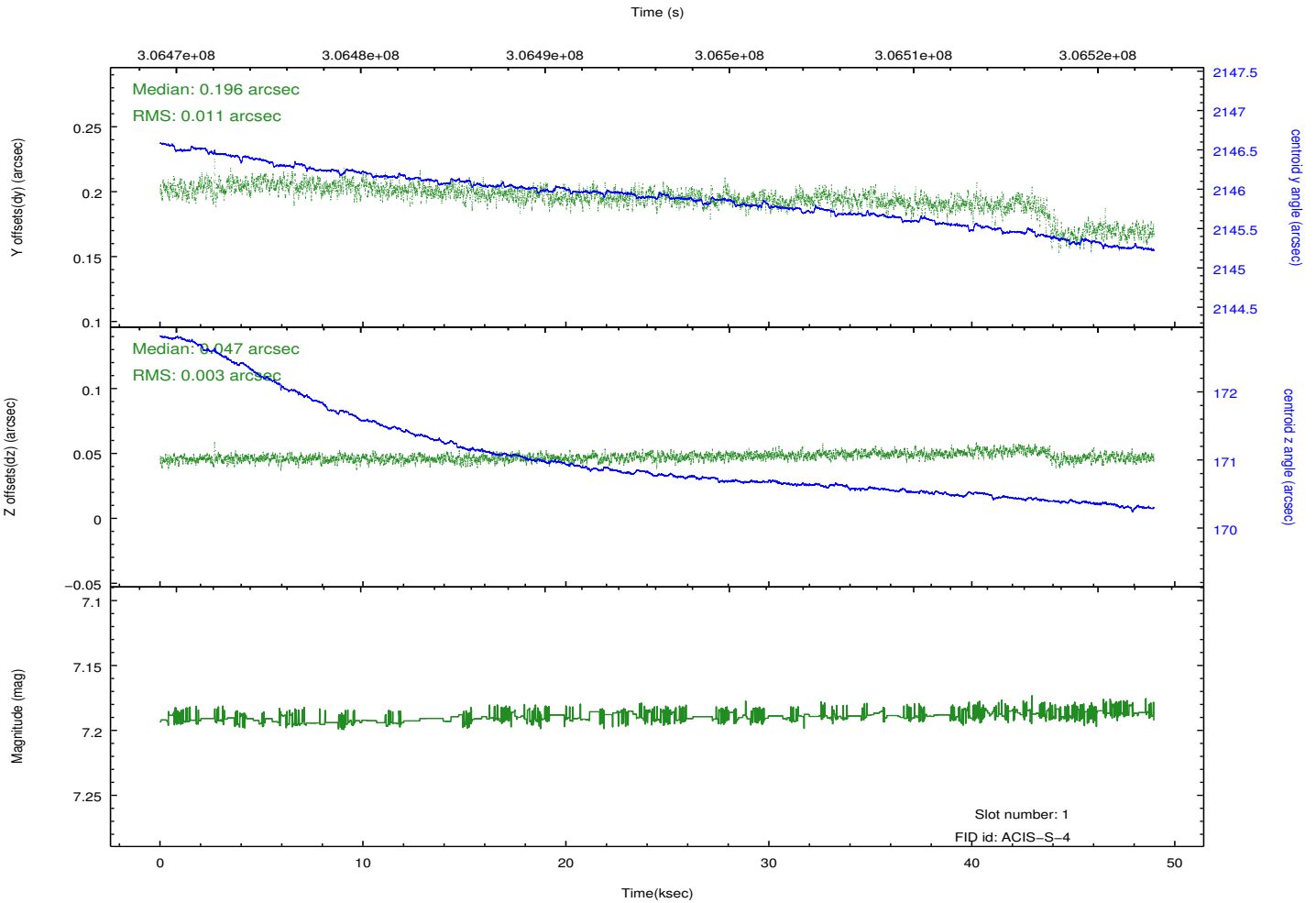
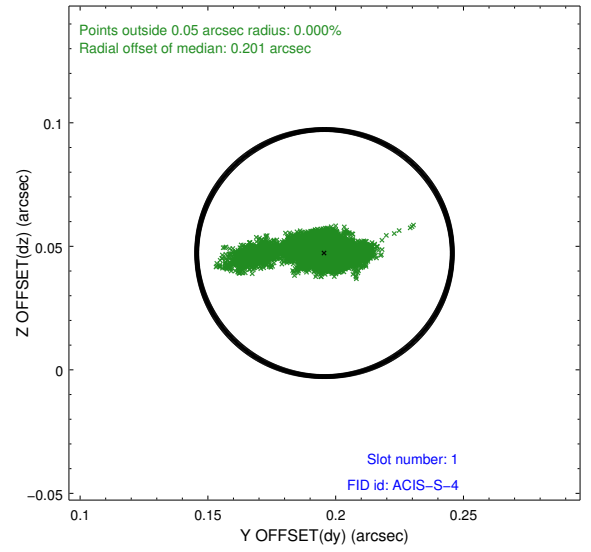
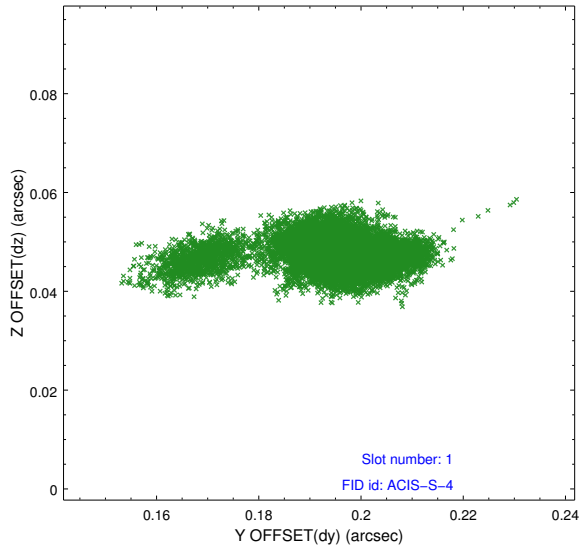


2.5 FID Slots

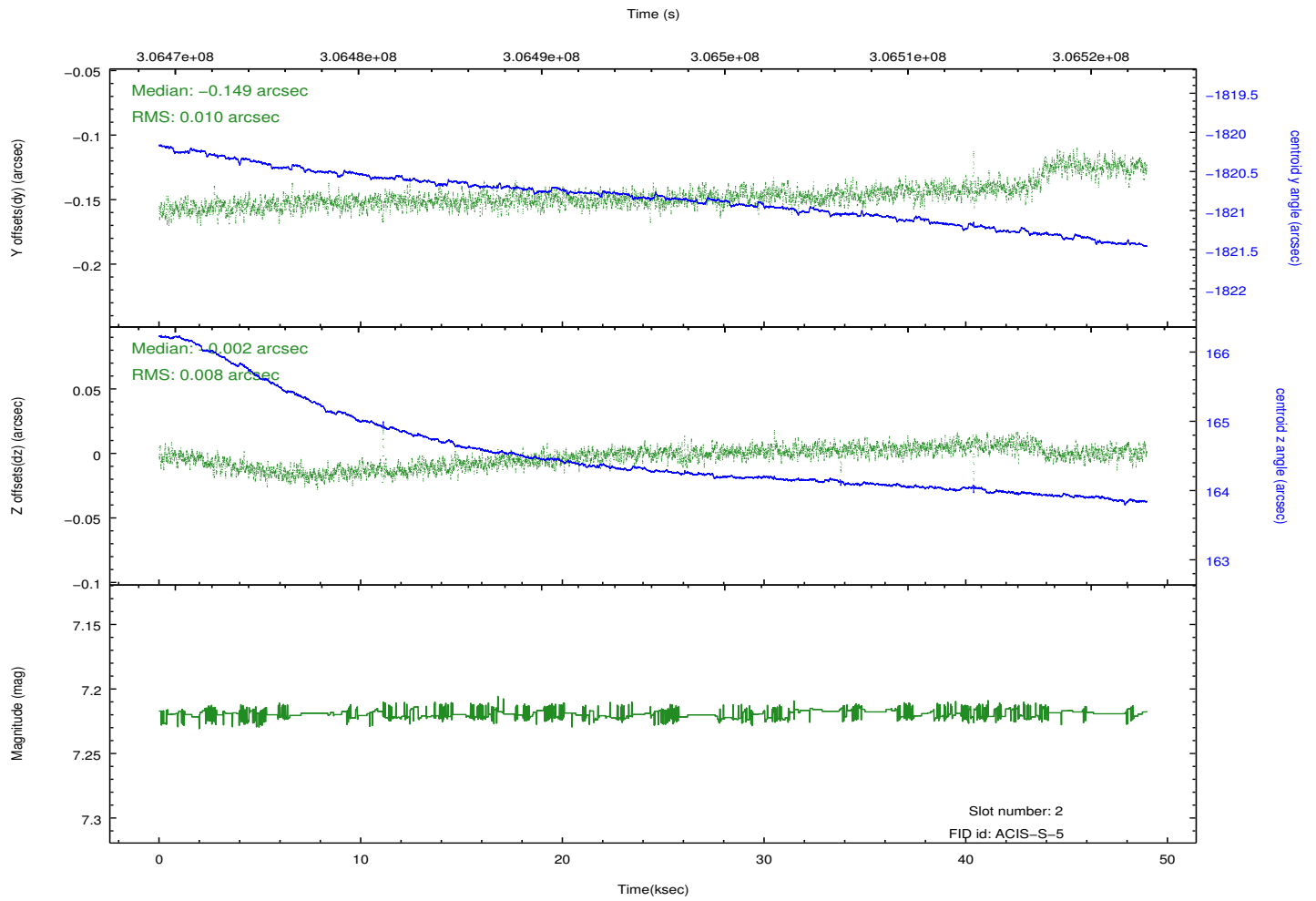
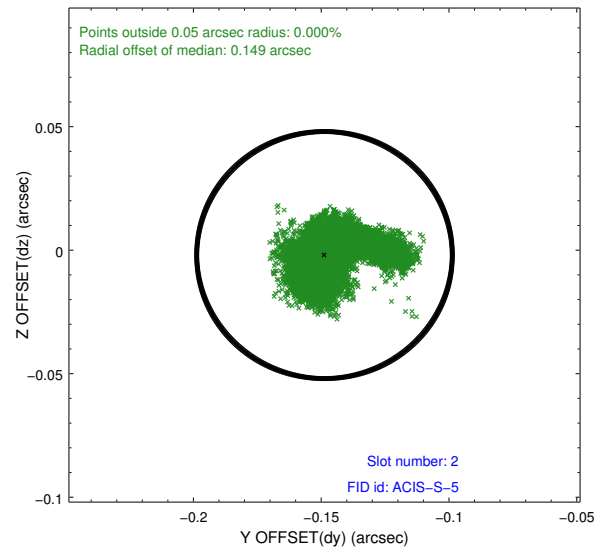
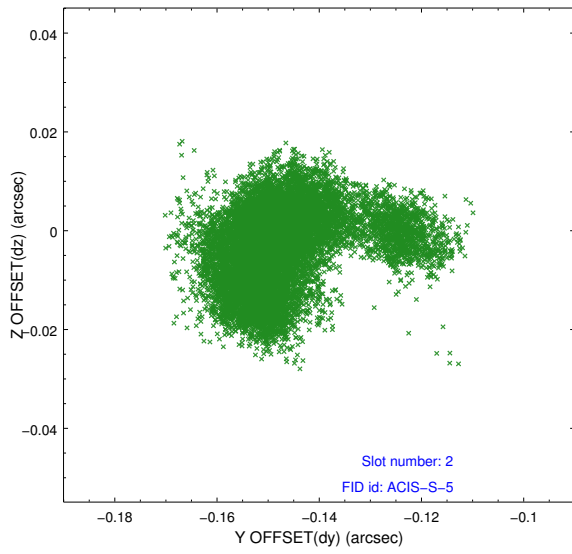
2.5.1 Slot 0



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)	2012.05.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.5407998

A.2 Comments