

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9696 - L2 Version 2
Chandra X-Ray Center

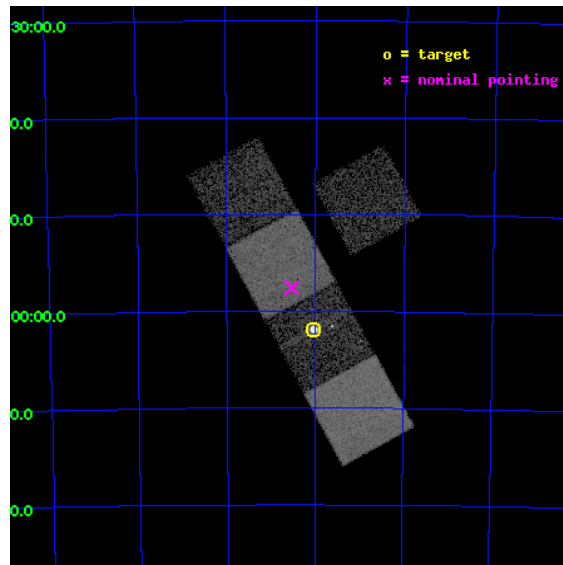
L2 Processing Date : May 9 2012

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

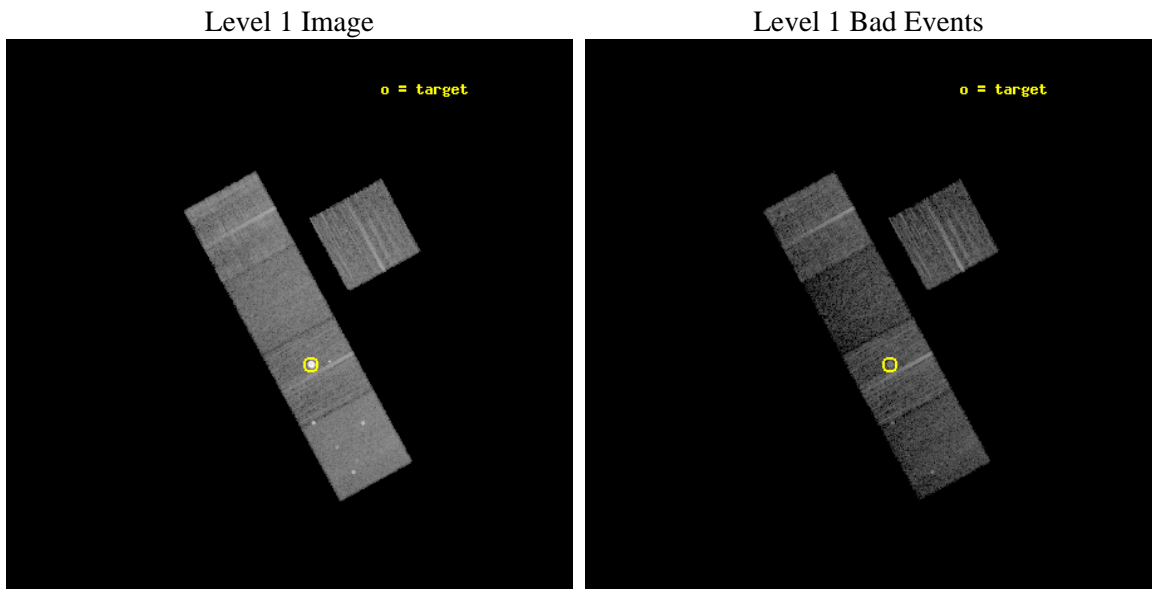
seq_num	590474	Sequence number
obs_id	9696	Observation id
title	AO9 Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72 S2,-120,5.15,0,0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.132963309038	Nominal RA [deg]
dec_nom	-71.9597246676	Nominal Dec [deg]
roll_nom	241.38718697424	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7773.6765921116	Sum of GTIs [s]
livetime	7672.1077845382	Livetime [s]
ontime3	7773.6355521083	Sum of GTIs [s]
ontime5	7773.7176321149	Sum of GTIs [s]
ontime6	7773.6765921116	Sum of GTIs [s]
ontime7	7773.7586721182	Sum of GTIs [s]
ontime8	7764.1714219451	Sum of GTIs [s]
l2events	105564	Number of level 2 events



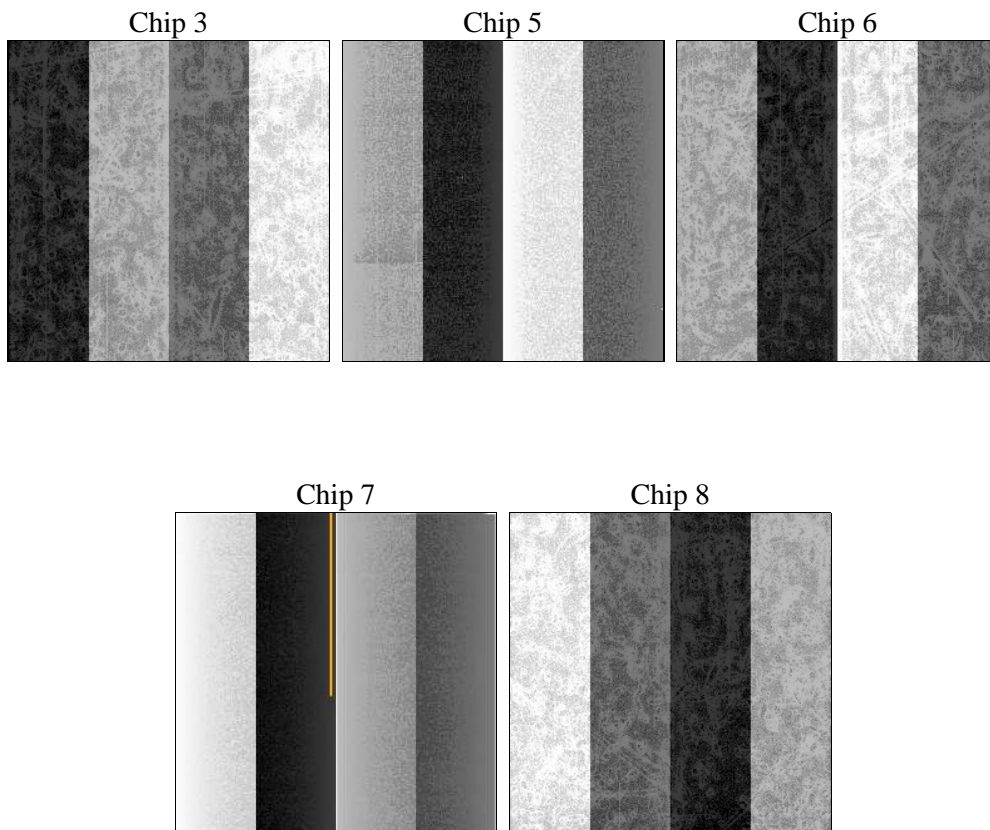
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	7773.6765921116	Sum of GTIs [s]
caldbver	4.4.9	 	ontime3	7773.6355521083	Sum of GTIs [s]
date	2012-05-09T04:03:24	Date and time of file creation	ontime5	7773.7176321149	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	7773.6765921116	Sum of GTIs [s]
			ontime7	7773.7586721182	Sum of GTIs [s]
			ontime8	7764.1714219451	Sum of GTIs [s]
			l1events	350805	Number of level 1 events

2.1.4 Events

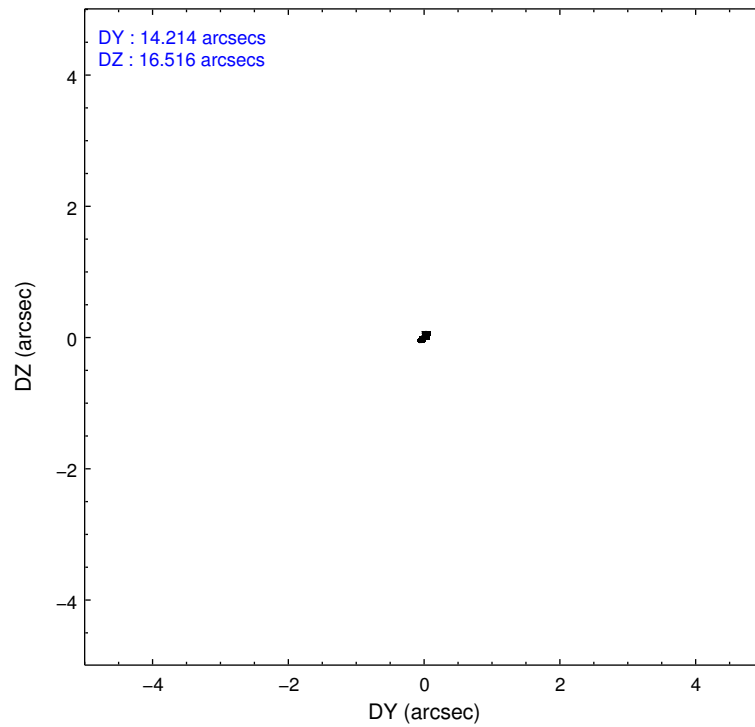
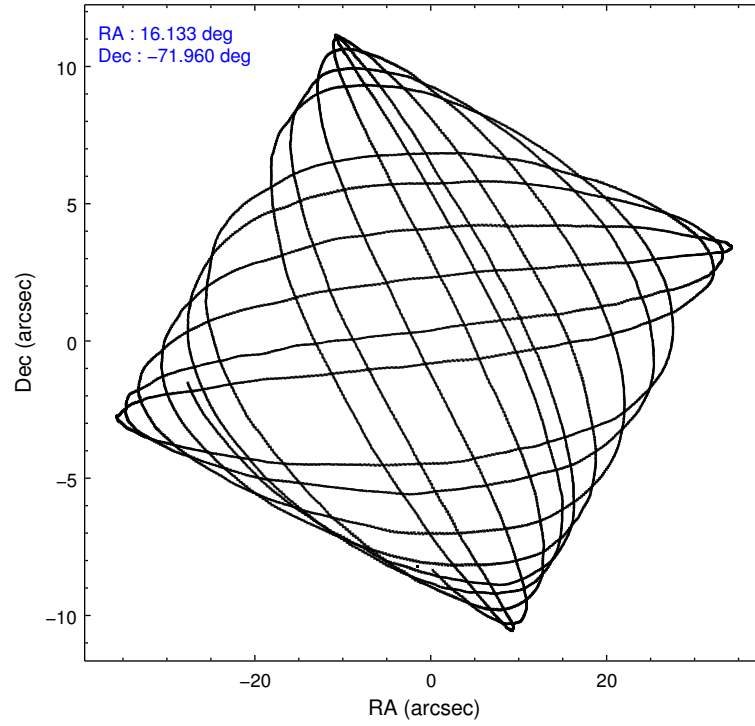
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	57021	75800	86221	56438	75325
rejected events	51603	35042	52799	28618	57066
rejected %	90%	46%	61%	50%	75%

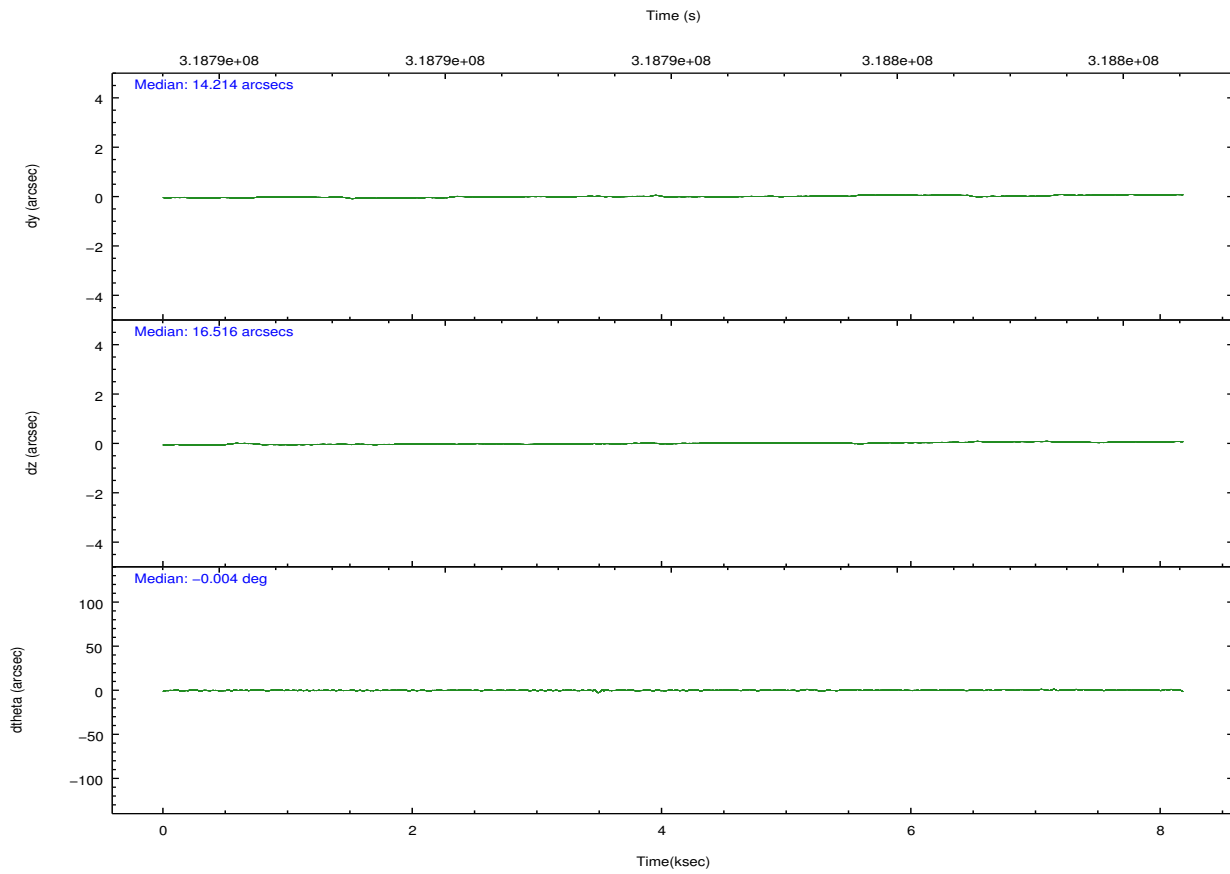
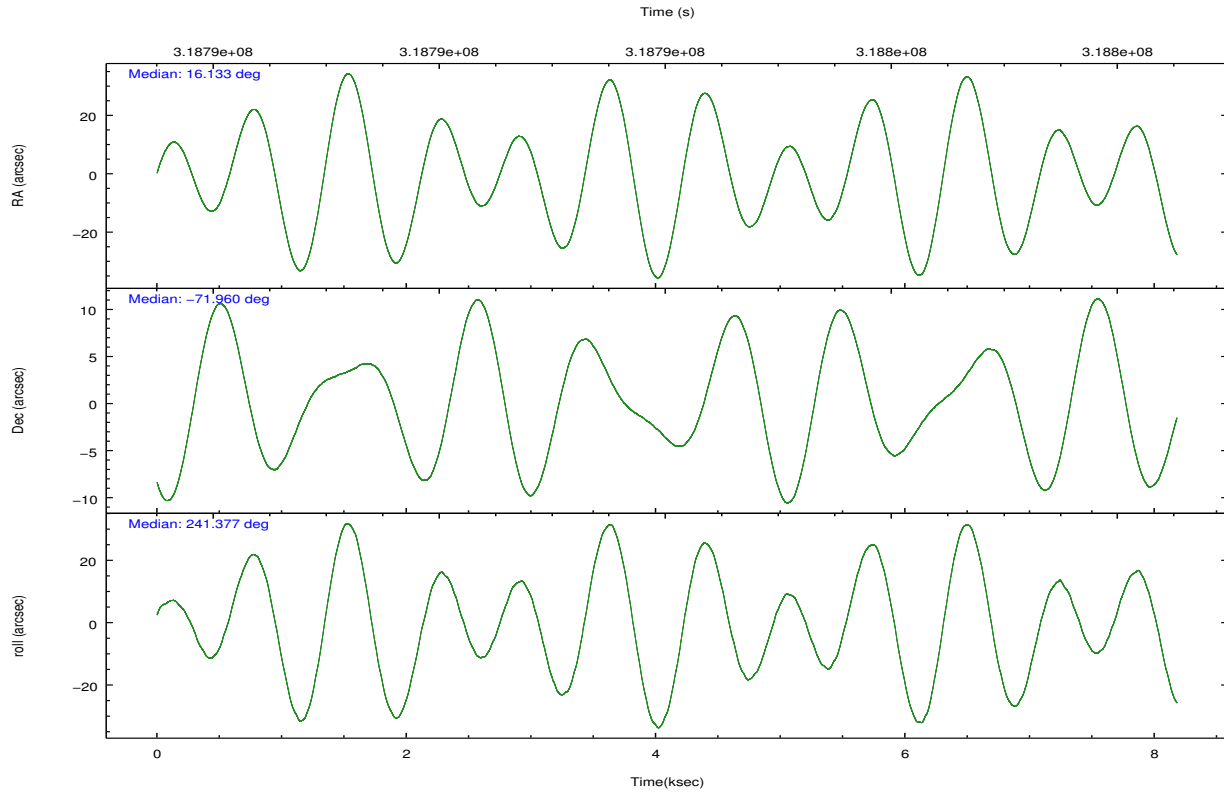
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2000	5032	26564	2966	4905
	3%	6%	30%	5%	6%
grade 1 events	29	237	259	82	72
	0%	0%	0%	0%	0%
grade 2 events	1162	12079	3252	5841	4326
	2%	15%	3%	10%	5%
grade 3 events	573	1982	1110	2658	1987
	1%	2%	1%	4%	2%
grade 4 events	636	1841	1083	2586	1861
	1%	2%	1%	4%	2%
grade 5 events	1988	6161	2090	6019	2984
	3%	8%	2%	10%	3%
grade 6 events	1048	19835	1422	13778	5182
	1%	26%	1%	24%	6%
grade 7 events	49585	28633	50441	22508	54008
	86%	37%	58%	39%	71%

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	16.129554	16.13296330903786	CCD I2 on	N	N
[deg] Pointing Dec	-71.932336	-71.95972466759957	CCD I3 on	O1	Y
[deg] Pointing Roll	241.227321	241.3871869742437	CCD S0 on	N	N
[s] Window start time (MET)	312854465.184000	312854465.184000	CCD S1 on	Y	Y
[s] Window stop time (MET)	325900865.184000	325900865.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S5 on	N	N
[mm] SIM translation stage offset	0	0.00754346686406393	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	318790103.184000	318789728.03575	On-chip summing requested	N	N
Observation start date	2008-02-07T16:47:18	2008-02-07T16:42:08	Subarray requested	NONE	NONE
[s] Observation end time (MET)	318798103.184000	318798237.58617	Alternating exposures requested	N	N
Observation end date	2008-02-07T19:00:38	2008-02-07T19:03:57	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



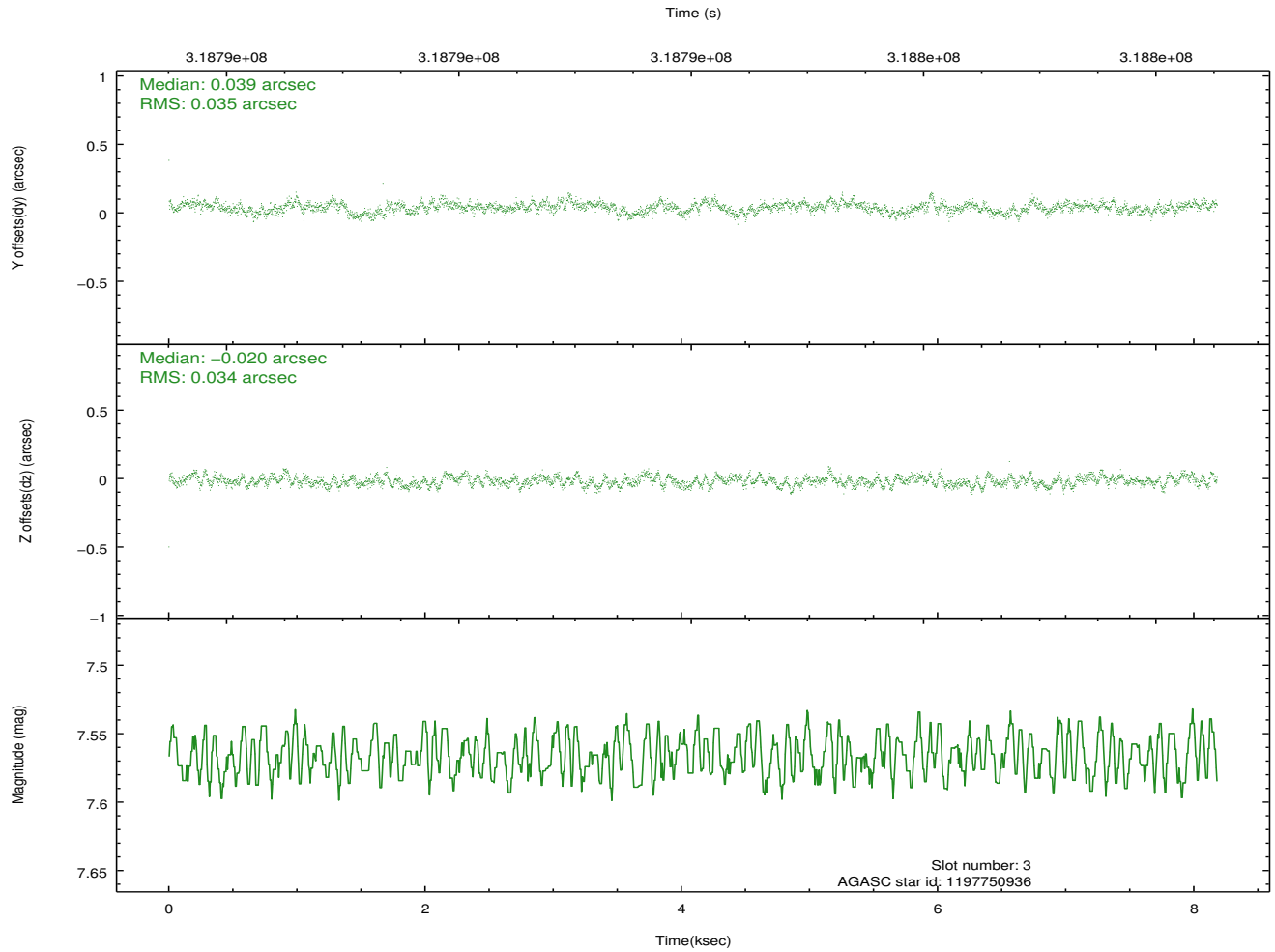
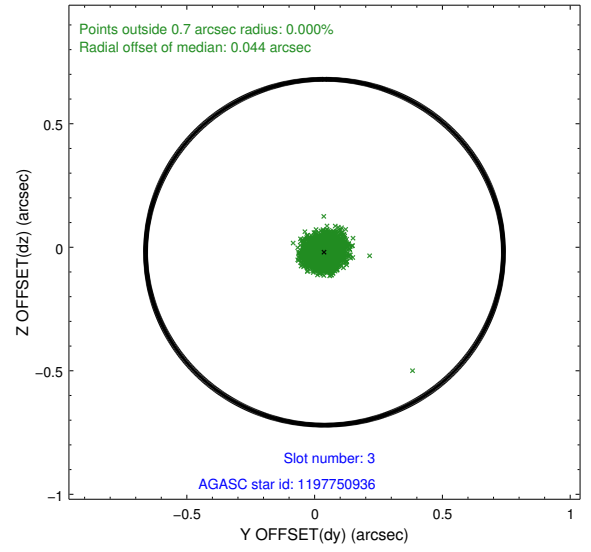
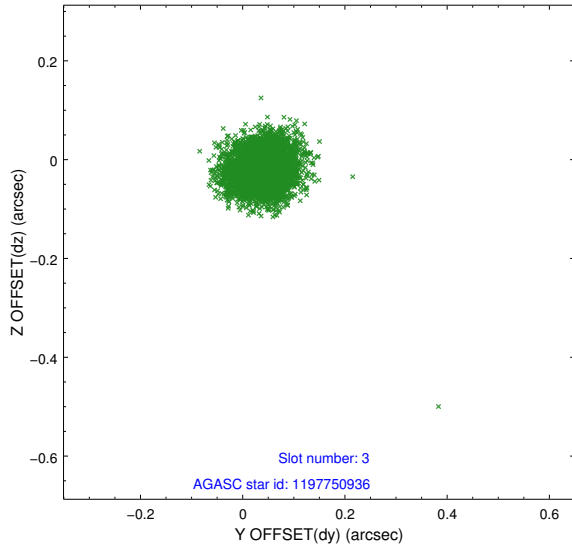


Slot Statistics

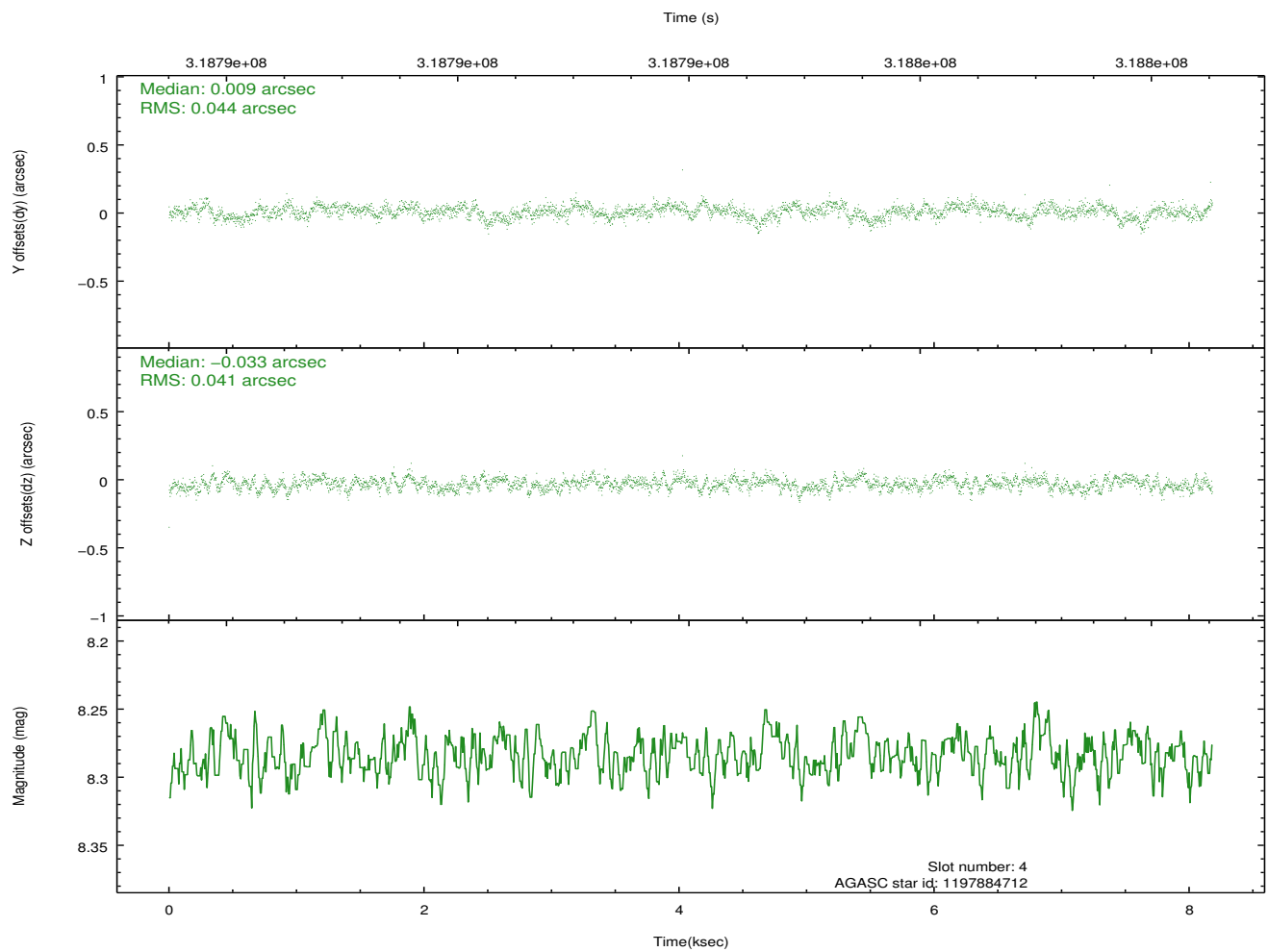
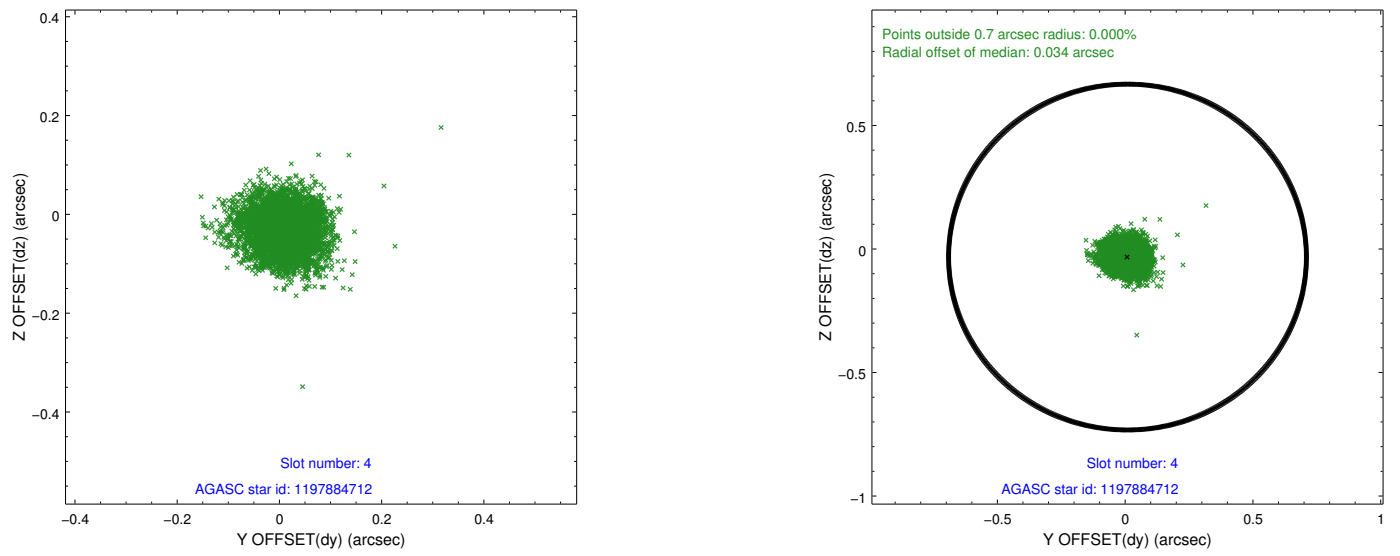
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	1996	-0.044	0.003	0.006	0.011	0.000000	0.000000	-767.22	-1737.93
1	FID	ACIS-S-4	6.95	1996	0.136	0.020	0.005	0.010	0.000000	0.000000	2145.94	169.83
2	FID	ACIS-S-5	6.98	1996	-0.123	-0.015	0.006	0.010	0.000000	0.000000	-1819.25	164.28
3	GUIDE	1197750936	7.57	3990	0.039	-0.020	0.051	0.083	15.387940	-71.549550	-795.97	-1401.49
4	GUIDE	1197884712	8.28	3991	0.009	-0.033	0.064	0.101	16.087398	-72.252690	1033.04	514.28
5	GUIDE	1197885104	9.38	3987	0.119	-0.048	0.112	0.180	17.845067	-72.189368	-73.75	2113.79
6	GUIDE	1197885328	7.24	3992	0.011	0.149	0.058	0.090	16.283090	-71.733943	-709.81	-190.87
7	GUIDE	1198283128	7.83	3989	-0.176	-0.050	0.056	0.089	17.272580	-72.642428	1659.50	2312.16

2.4 Star Slots

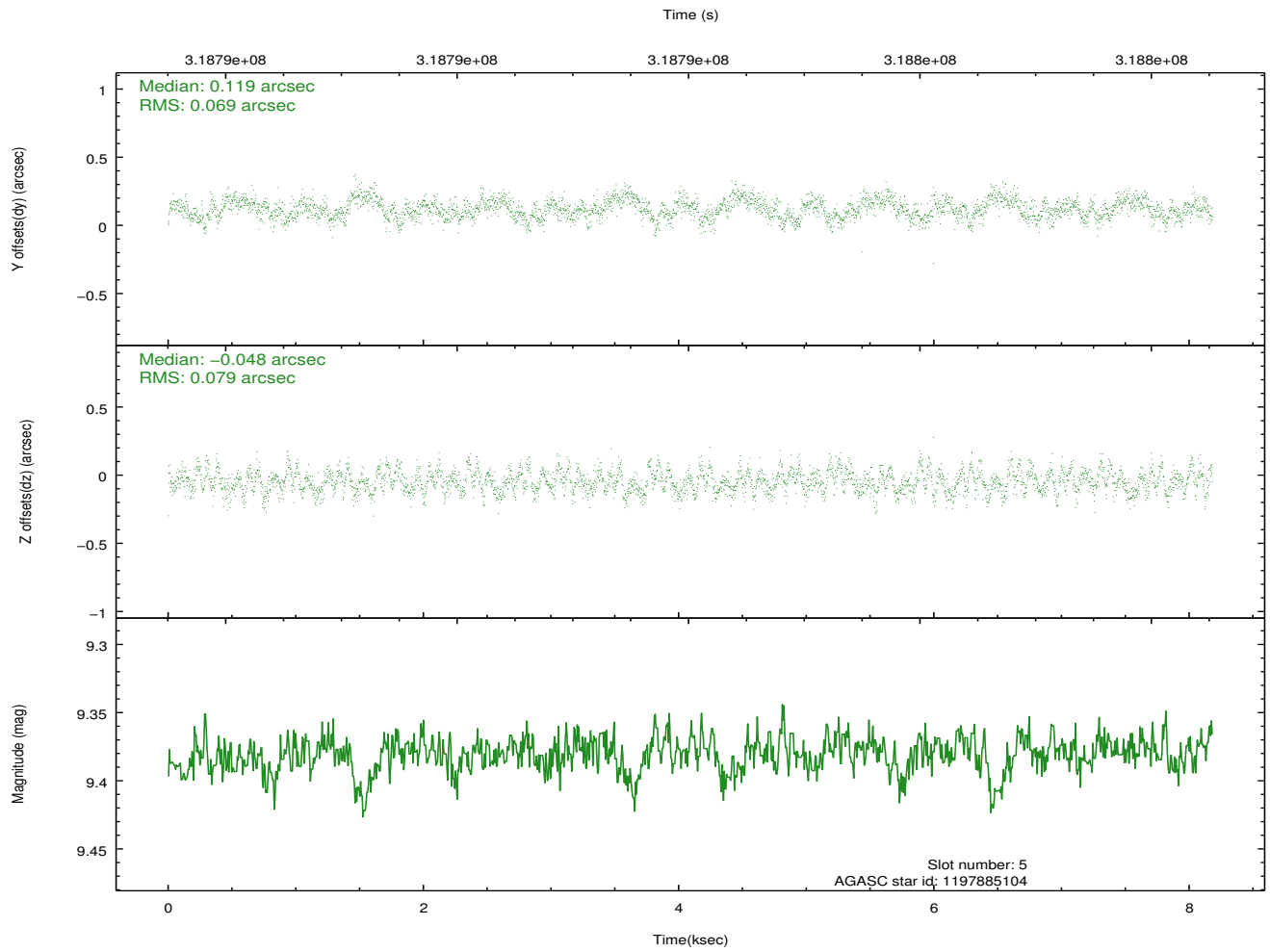
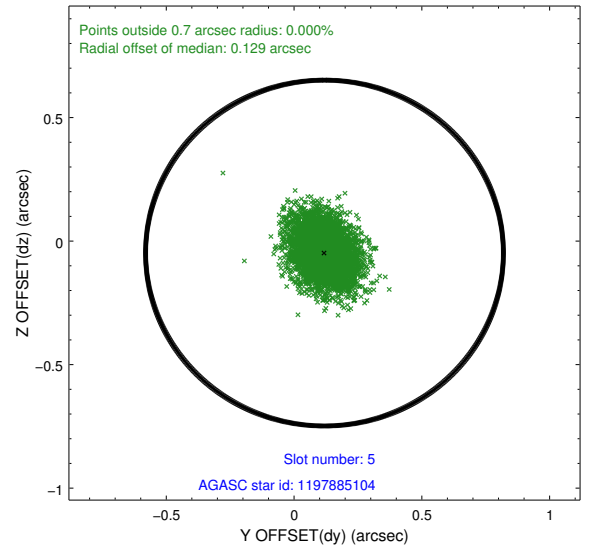
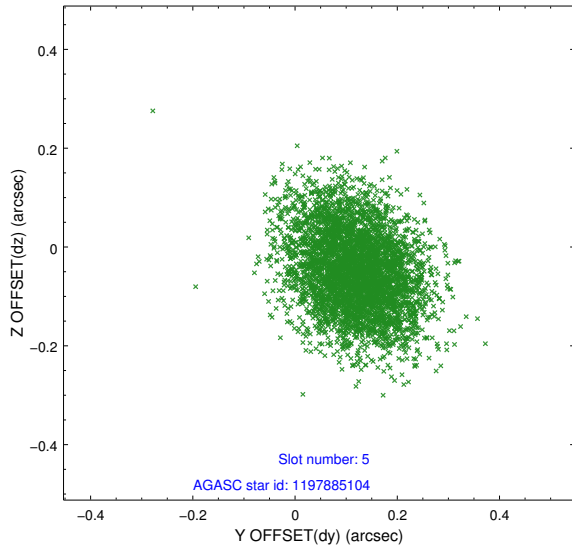
2.4.1 Slot 3



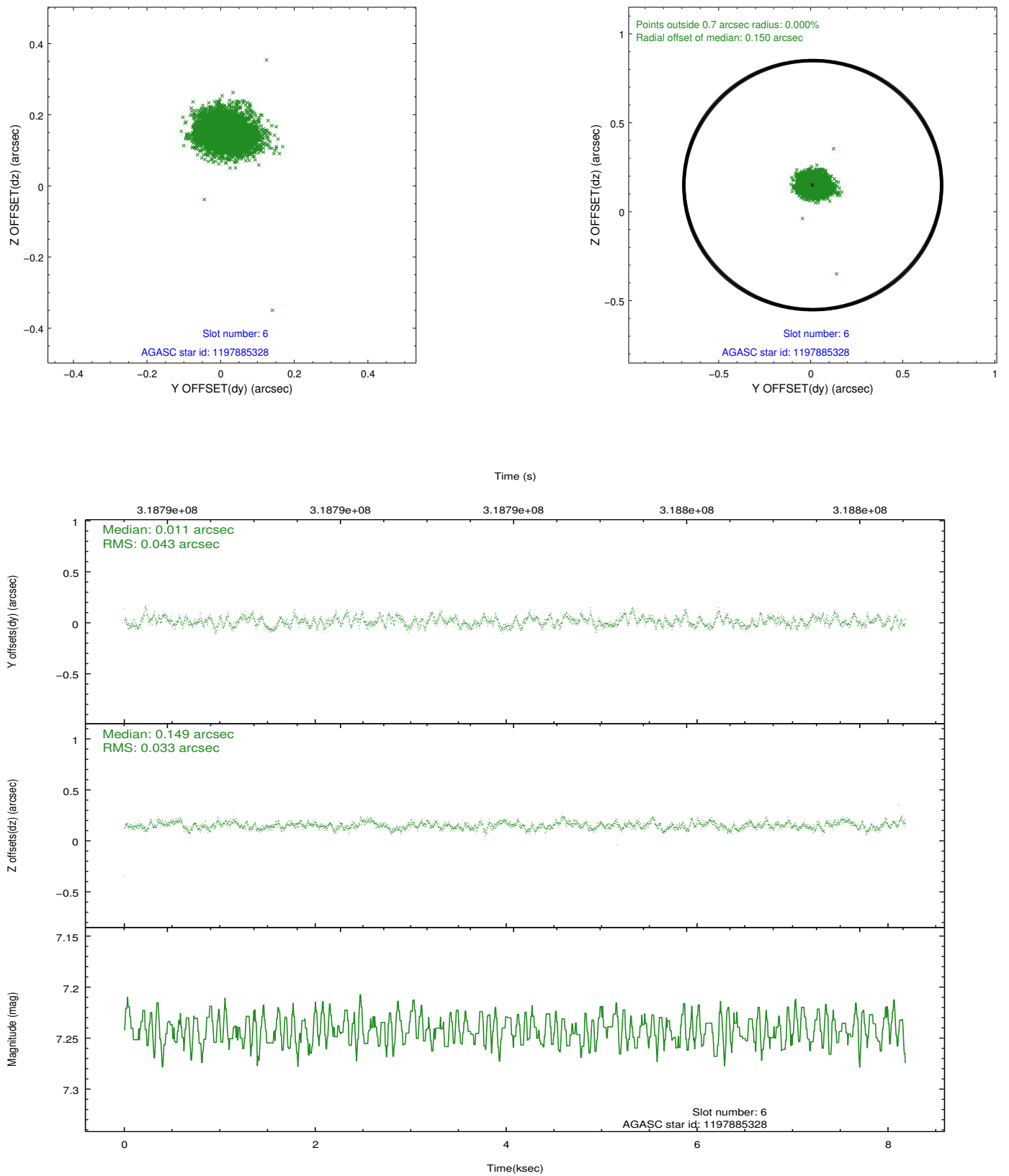
2.4.2 Slot 4



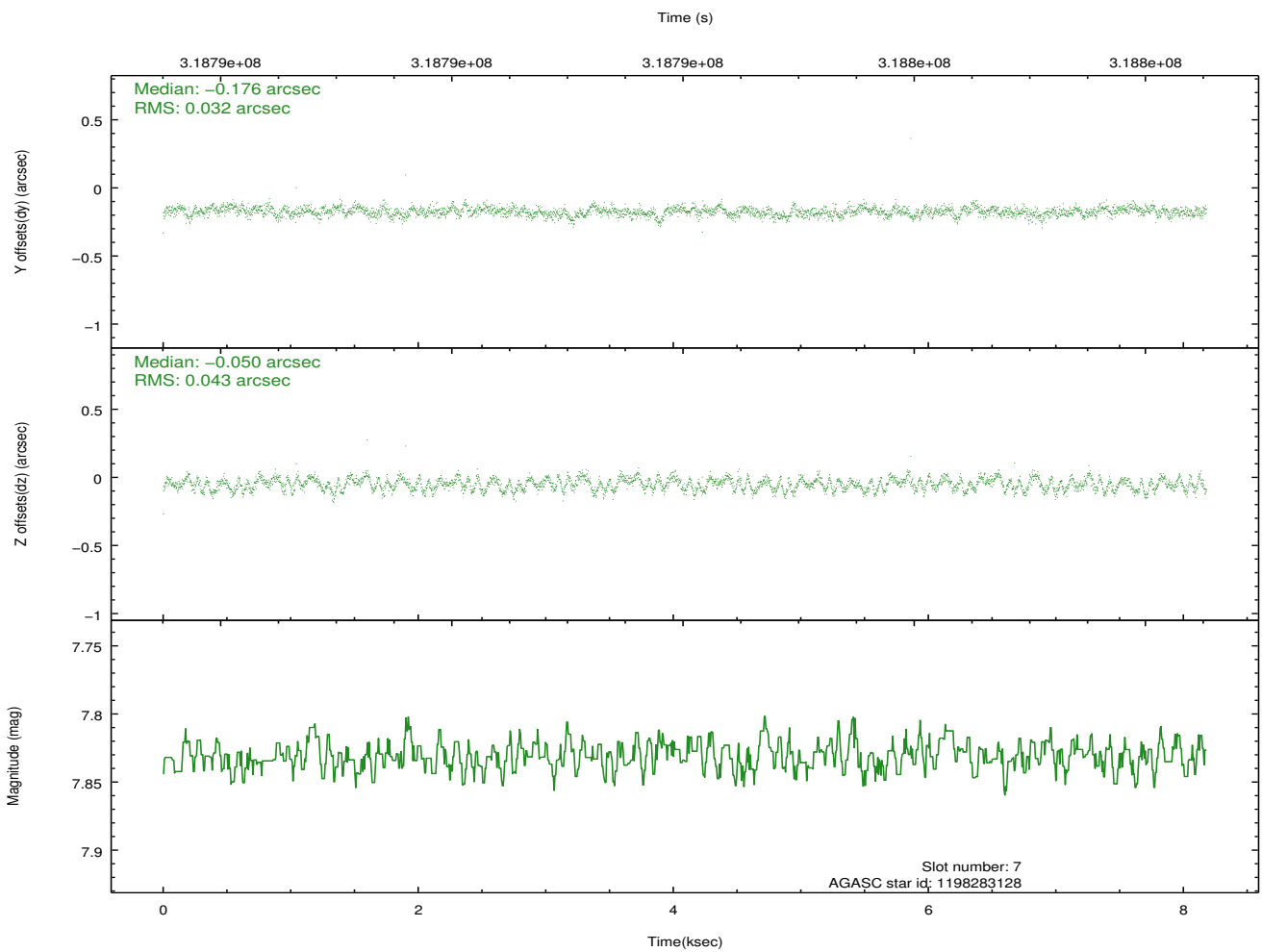
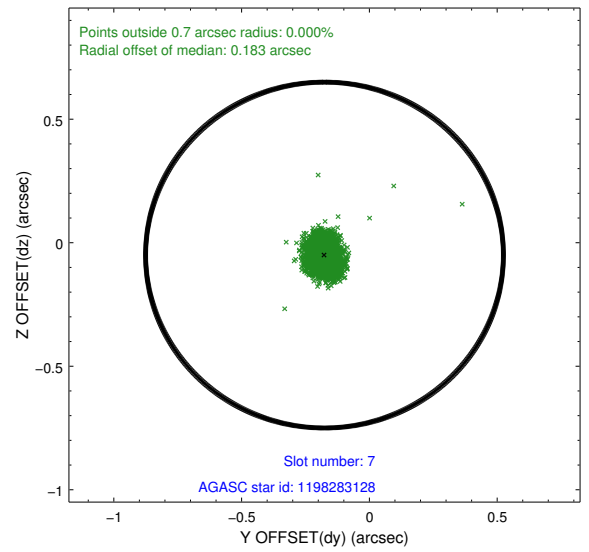
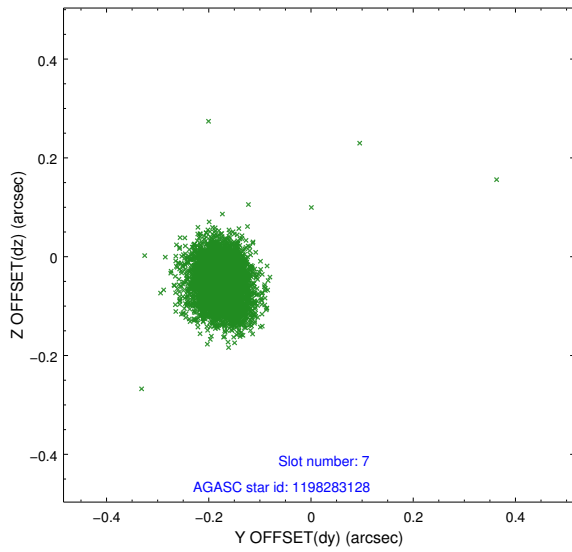
2.4.3 Slot 5



2.4.4 Slot 6

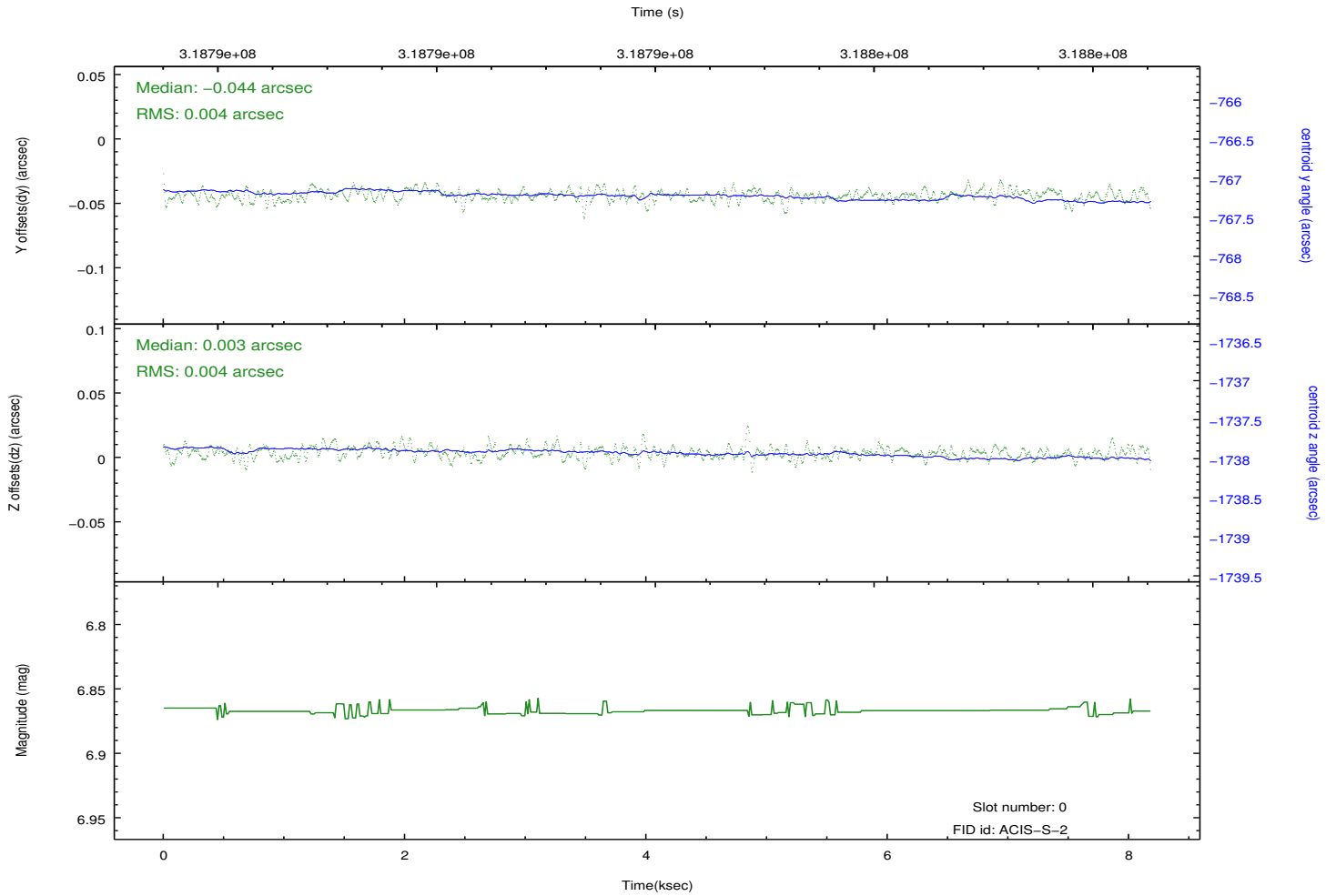
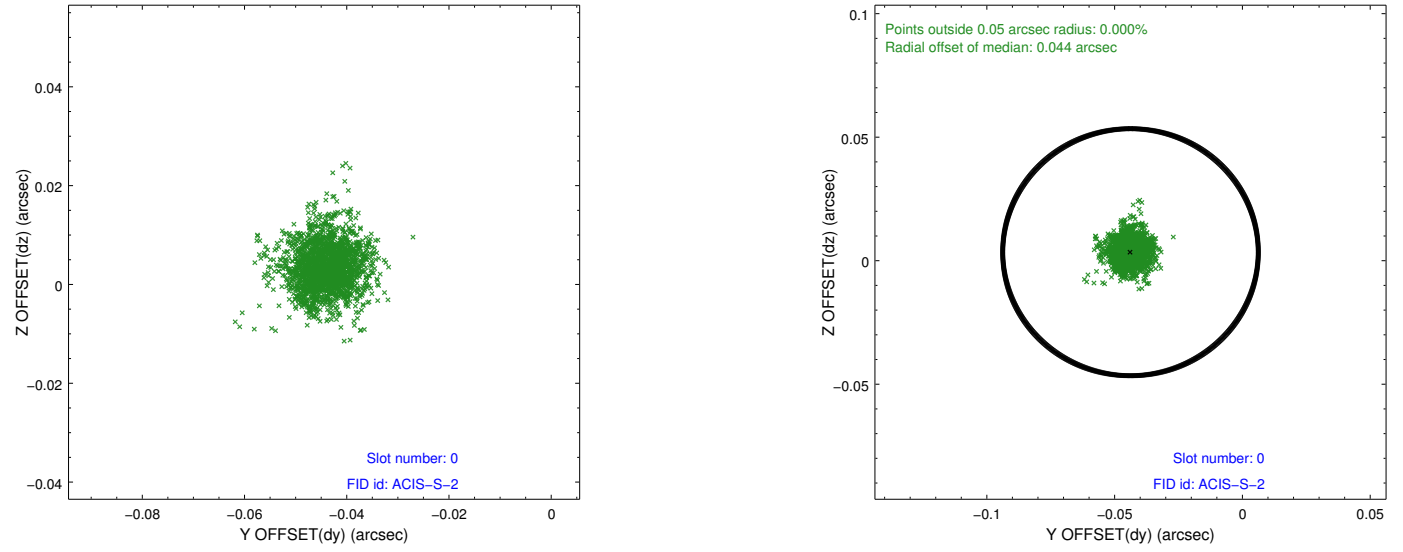


2.4.5 Slot 7

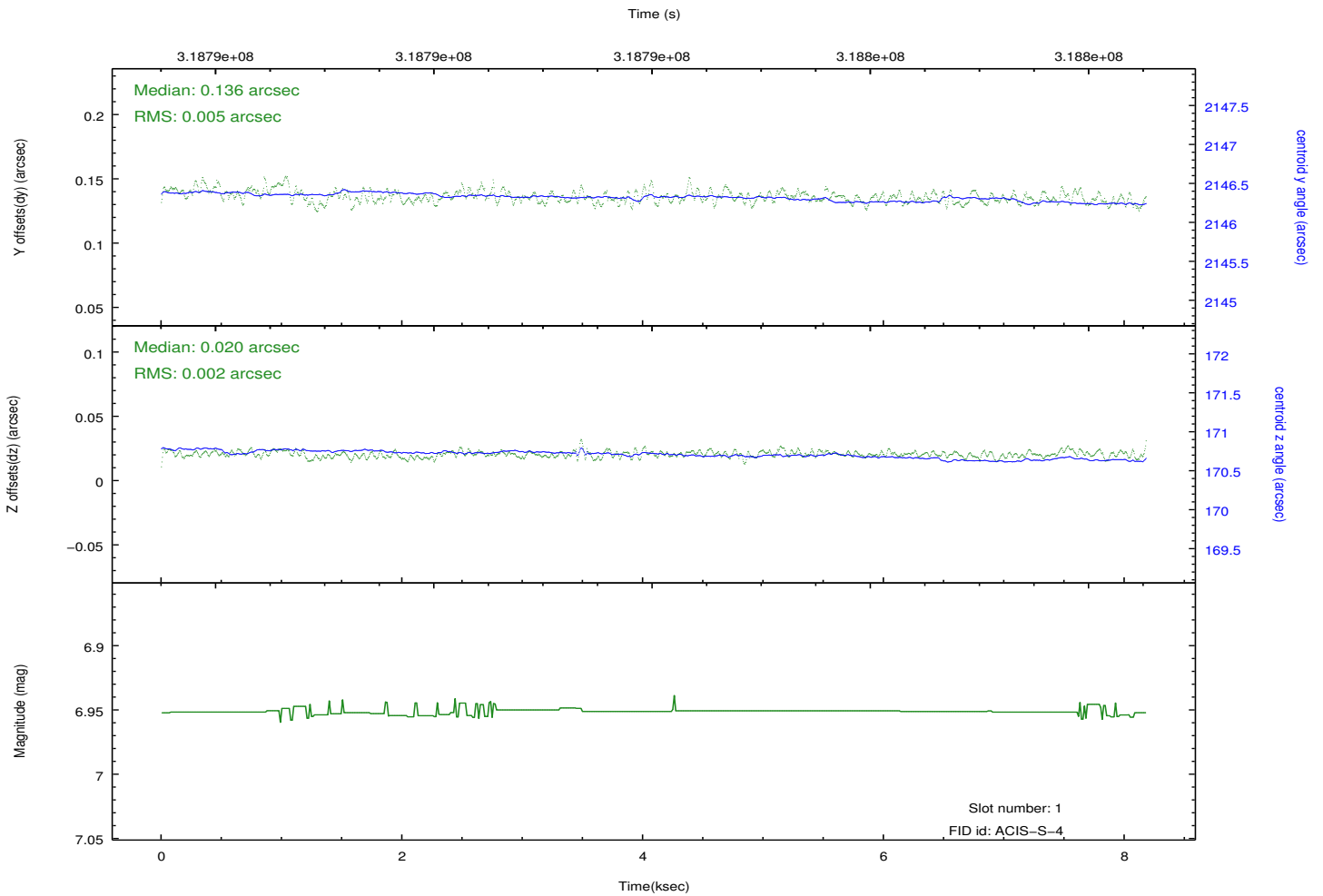
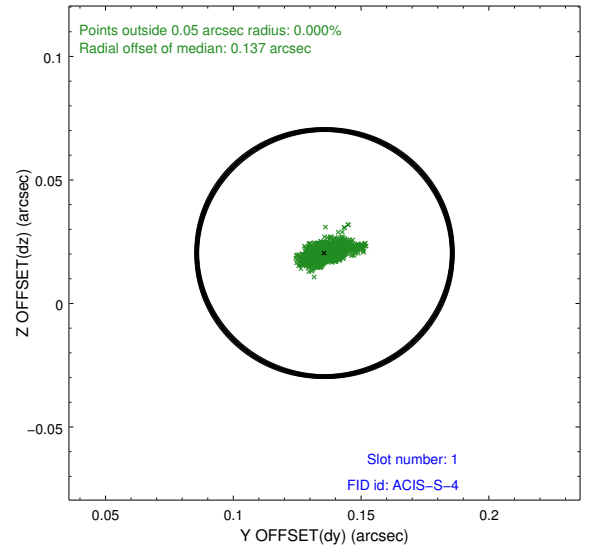
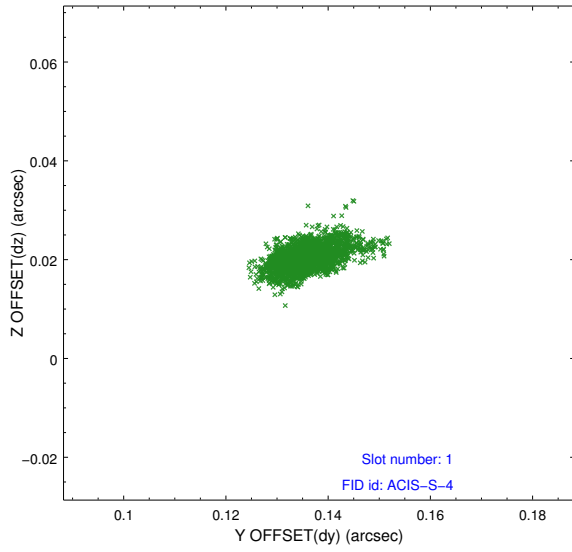


2.5 FID Slots

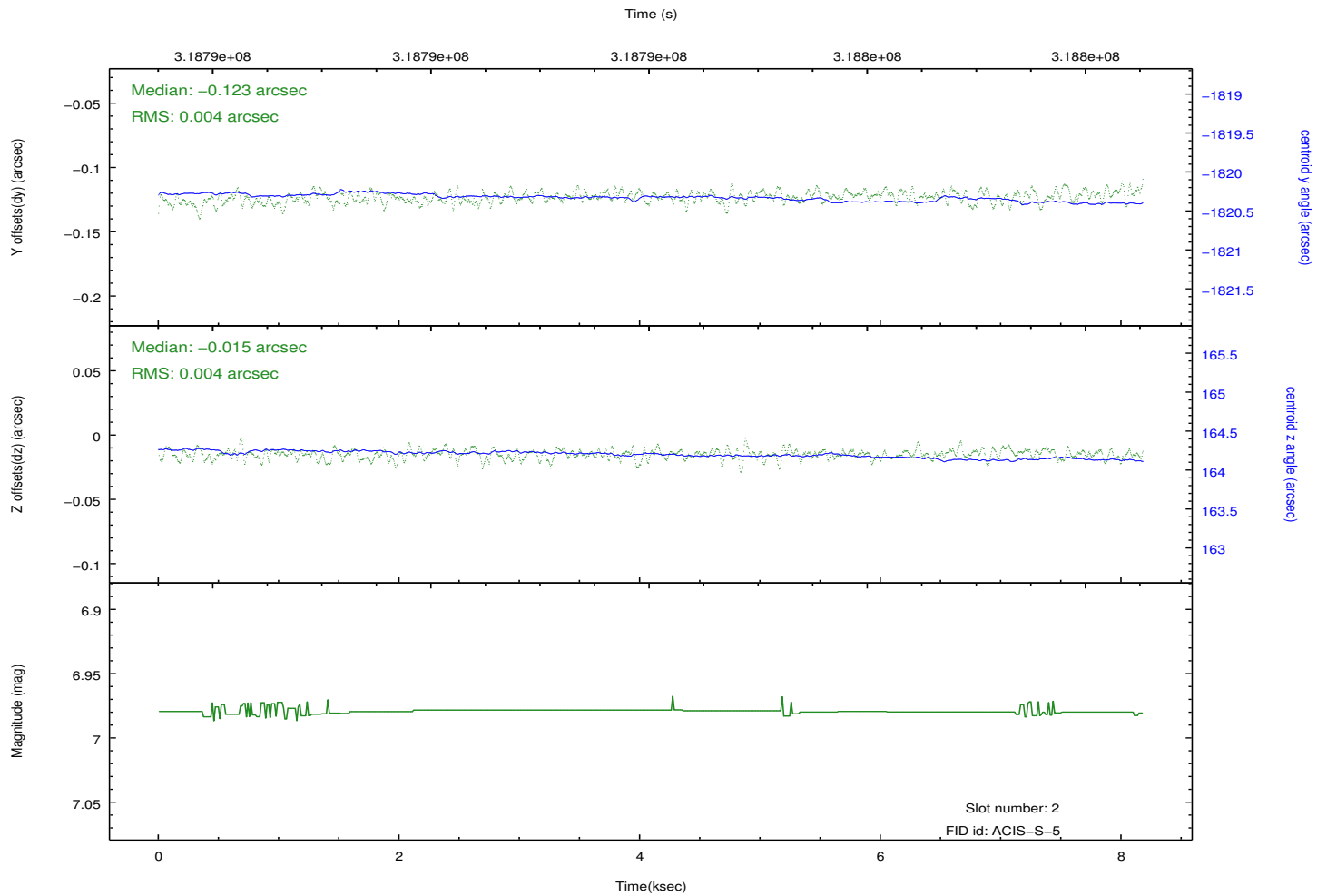
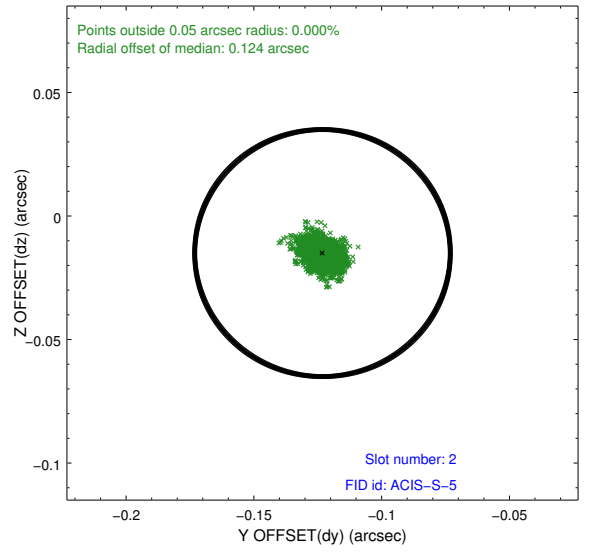
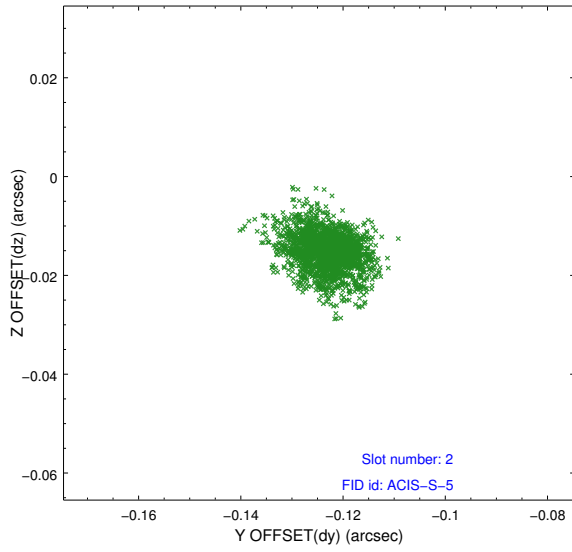
2.5.1 Slot 0



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)	2012.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.77480005

A.2 Comments

Window preference met.