

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 6078 - L2 Version 3
Chandra X-Ray Center

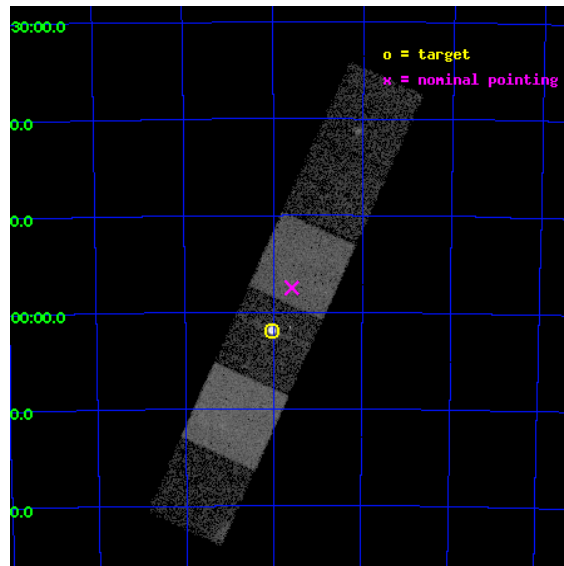
L2 Processing Date : Dec 14 2012

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1 Front

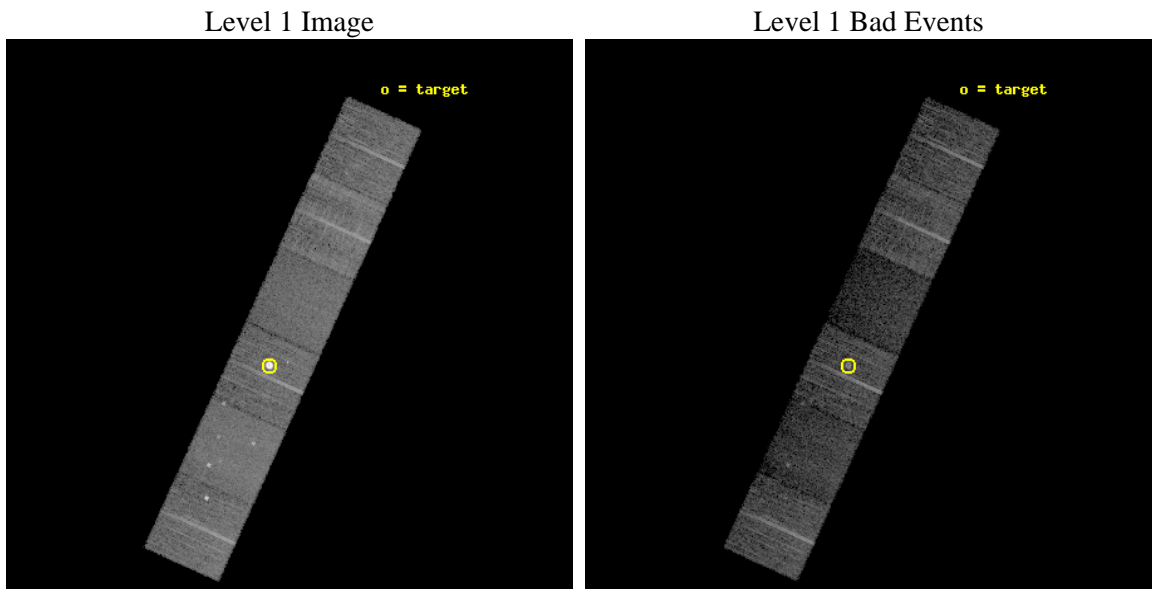
seq_num	590405	Sequence number
obs_id	6078	Observation id
title	AO6A ACIS-S Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S2,-120,5.15,0,0]	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.896037083875	Nominal RA [deg]
dec_nom	-71.95813396523	Nominal Dec [deg]
roll_nom	294.41689577781	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7756.7999711037	Sum of GTIs [s]
livetime	7658.5786992854	Livetime [s]
ontime4	7756.7999711037	Sum of GTIs [s]
ontime5	7756.7999711037	Sum of GTIs [s]
ontime6	7756.7999711037	Sum of GTIs [s]
ontime7	7756.7999711037	Sum of GTIs [s]
ontime8	7753.5590007901	Sum of GTIs [s]
ontime9	7756.7999711037	Sum of GTIs [s]
l2events	94838	Number of level 2 events



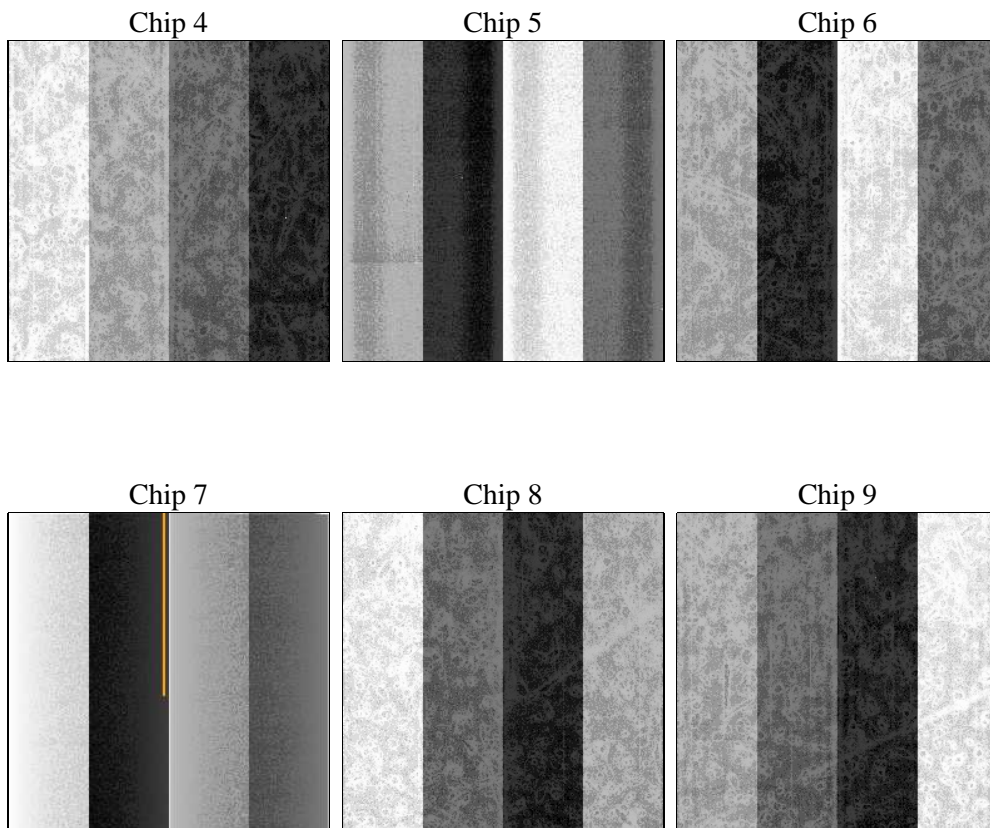
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	7756.7999711037	Sum of GTIs [s]
caldbver	4.5.5	 	ontime4	7756.7999711037	Sum of GTIs [s]
date	2012-12-14T20:39:05	Date and time of file creation	ontime5	7756.7999711037	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7756.7999711037	Sum of GTIs [s]
			ontime7	7756.7999711037	Sum of GTIs [s]
			ontime8	7753.5590007901	Sum of GTIs [s]
			ontime9	7756.7999711037	Sum of GTIs [s]
			l1events	344531	Number of level 1 events

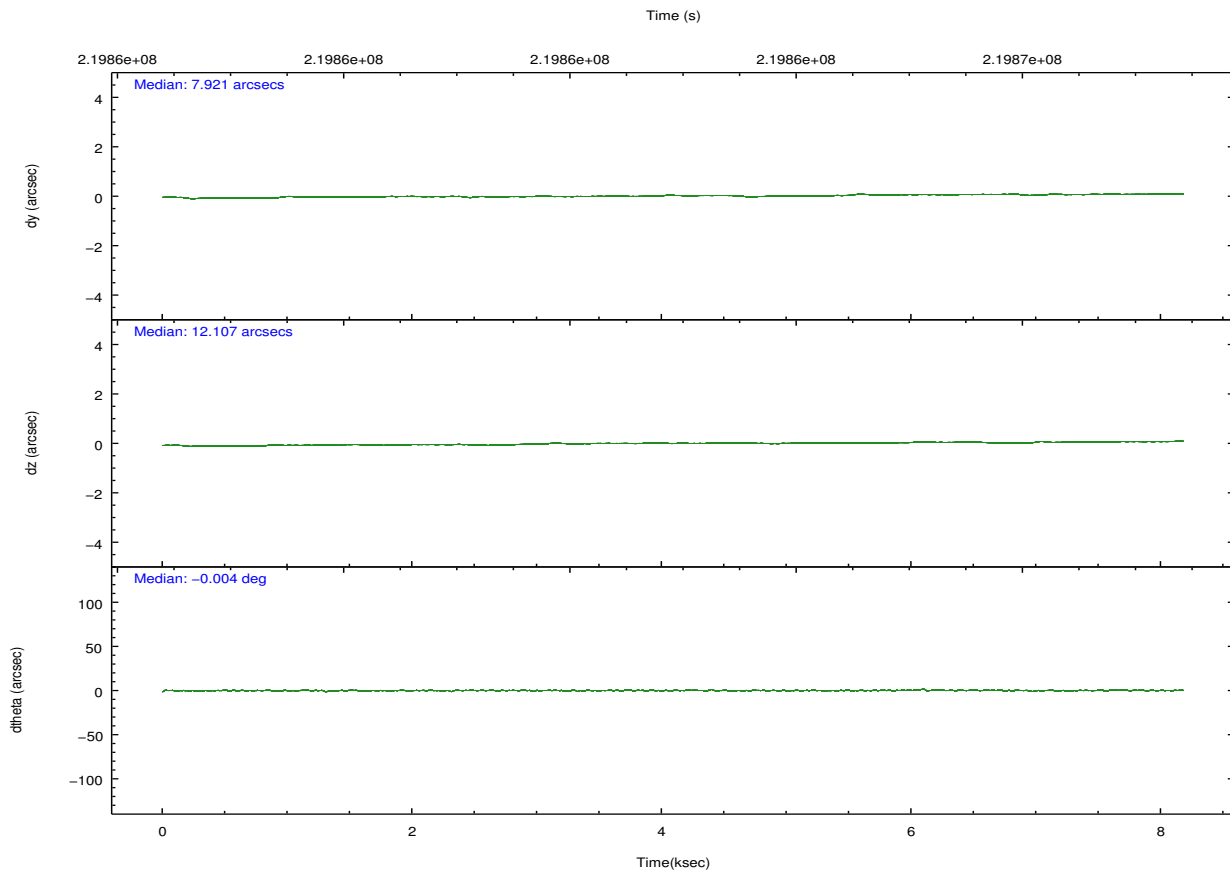
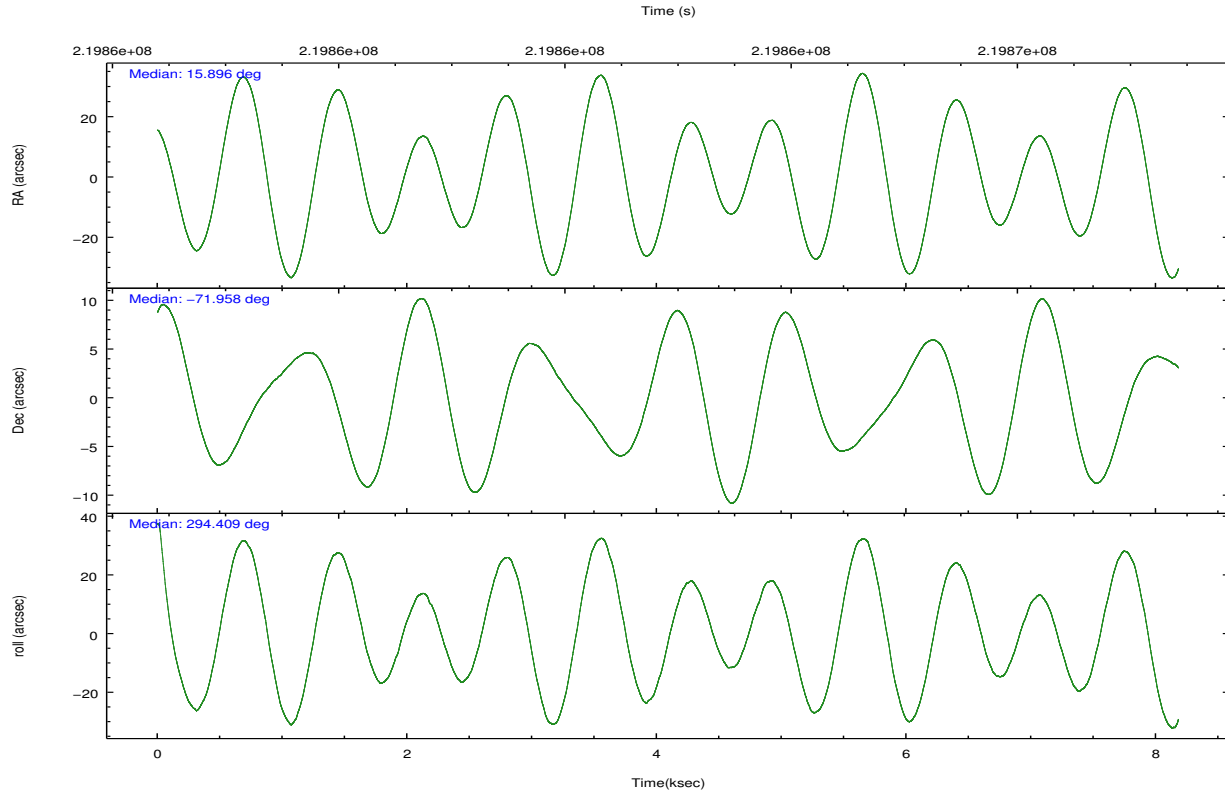
2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	57008	59465	76079	44322	61746	45911	grade 0 events	4362	4018	27012	2284	3623	1858
rejected events	49540	27241	42795	22197	48429	41011		7%	6%	35%	5%	5%	4%
rejected %	86%	45%	56%	50%	78%	89%	grade 1 events	65	280	259	47	51	19
								0%	0%	0%	0%	0%	0%
							grade 2 events	1150	9624	3058	4680	3078	1027
								2%	16%	4%	10%	4%	2%
							grade 3 events	602	1577	1008	2194	1510	555
								1%	2%	1%	4%	2%	1%
							grade 4 events	557	1625	1035	2114	1366	547
								0%	2%	1%	4%	2%	1%
							grade 5 events	1627	4848	1704	4781	2395	1675
								2%	8%	2%	10%	3%	3%
							grade 6 events	800	15389	1181	10857	3747	915
								1%	25%	1%	24%	6%	1%
							grade 7 events	47845	22104	40822	17365	45976	39315
								83%	37%	53%	39%	74%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	15.823951	15.89603708387452	Subarray requested	NONE	NONE
[deg] Pointing Dec	-71.942600	-71.95813396523035	Alternating exposures requested	N	N
[deg] Pointing Roll	294.191728	294.4168957778073	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	215654464.184000	215654464.184000			
[s] Window stop time (MET)	220838464.184000	220838464.184000			
[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)	219859000.184000	219858624.77647			
Observation start date	2004-12-19T15:55:36	2004-12-19T15:50:24			
[s] Observation end time (MET)	219867000.184000	219867731.38938			
Observation end date	2004-12-19T18:08:56	2004-12-19T18:22:11			
Read mode	TIMED	TIMED			

2.3 Aspect

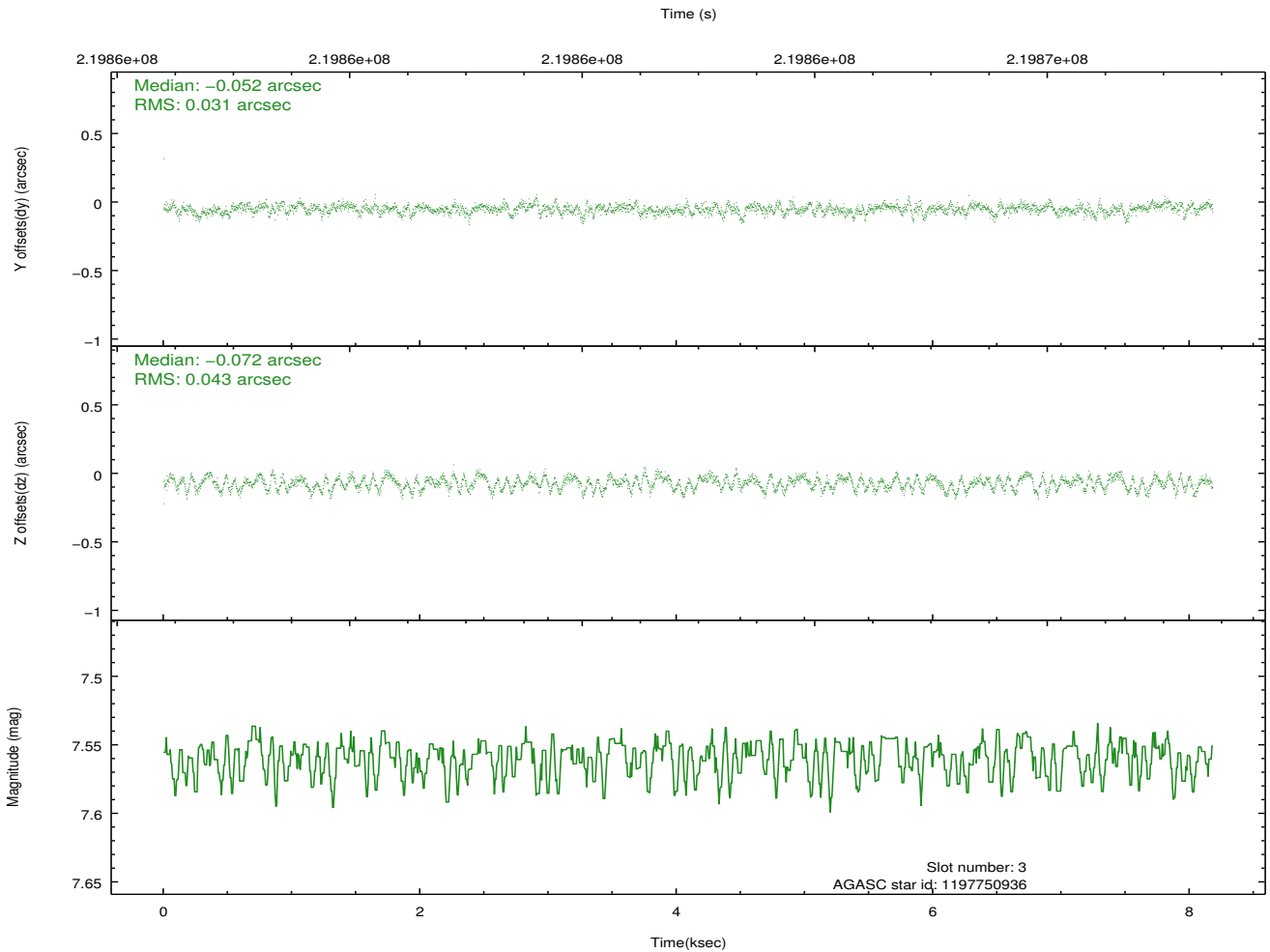
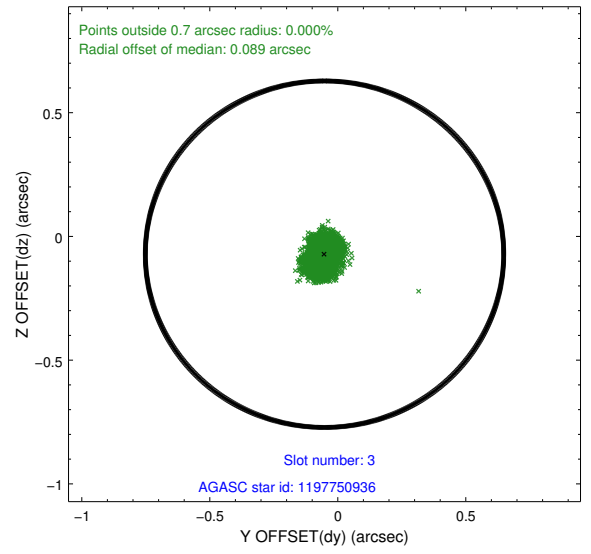
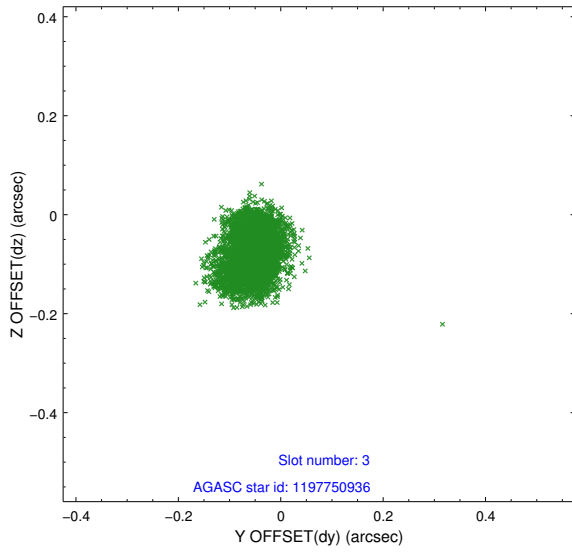


Slot Statistics

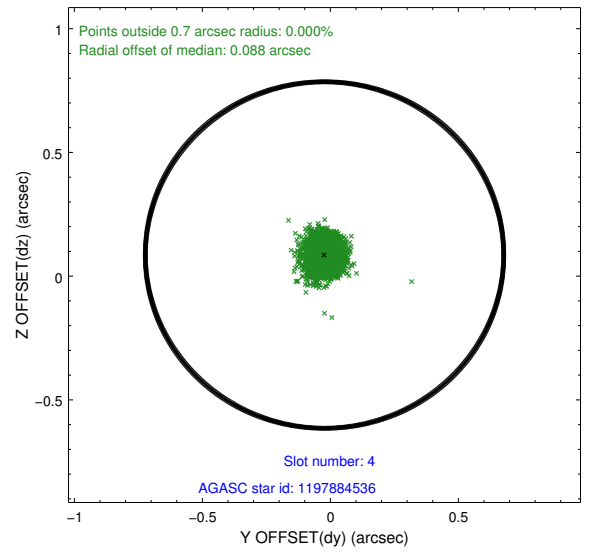
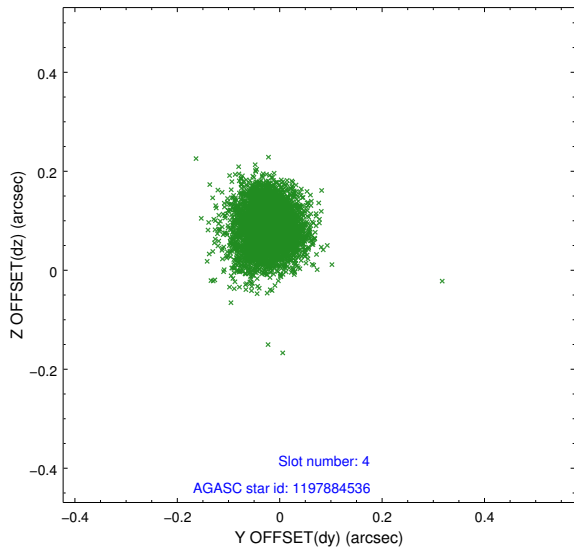
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	1996	0.072	-0.083	0.007	0.012	0.000000	0.000000	935.36	-1729.13
1	FID	ACIS-S-5	7.23	1995	-0.077	0.053	0.007	0.011	0.000000	0.000000	-1813.36	167.91
2	FID	ACIS-S-6	7.34	1995	-0.016	0.041	0.007	0.012	0.000000	0.000000	400.14	812.59
3	GUIDE	1197750936	7.56	3992	-0.052	-0.072	0.057	0.090	15.387940	-71.549550	-1492.12	125.72
4	GUIDE	1197884536	8.50	3990	-0.023	0.085	0.059	0.094	17.160729	-71.835289	277.31	1520.10
5	GUIDE	1197884712	8.31	3992	0.101	0.071	0.055	0.089	16.087398	-72.252690	1137.94	-193.35
6	GUIDE	1197885328	7.25	3992	0.049	-0.029	0.046	0.074	16.283090	-71.733943	-470.49	780.06
7	GUIDE	1198189696	7.39	3991	-0.075	-0.053	0.051	0.084	15.223750	-72.697522	2219.17	-1700.74

2.4 Star Slots

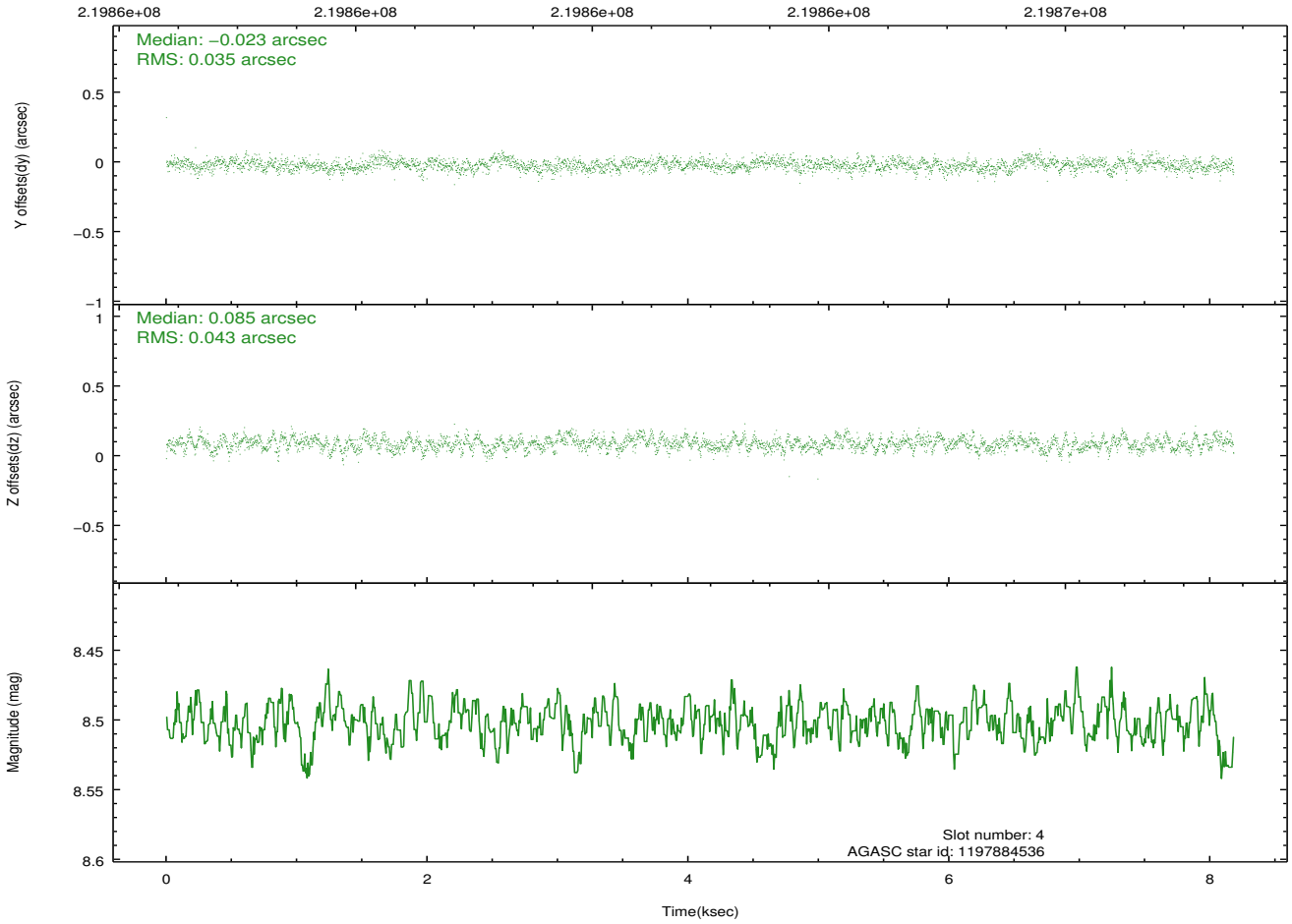
2.4.1 Slot 3



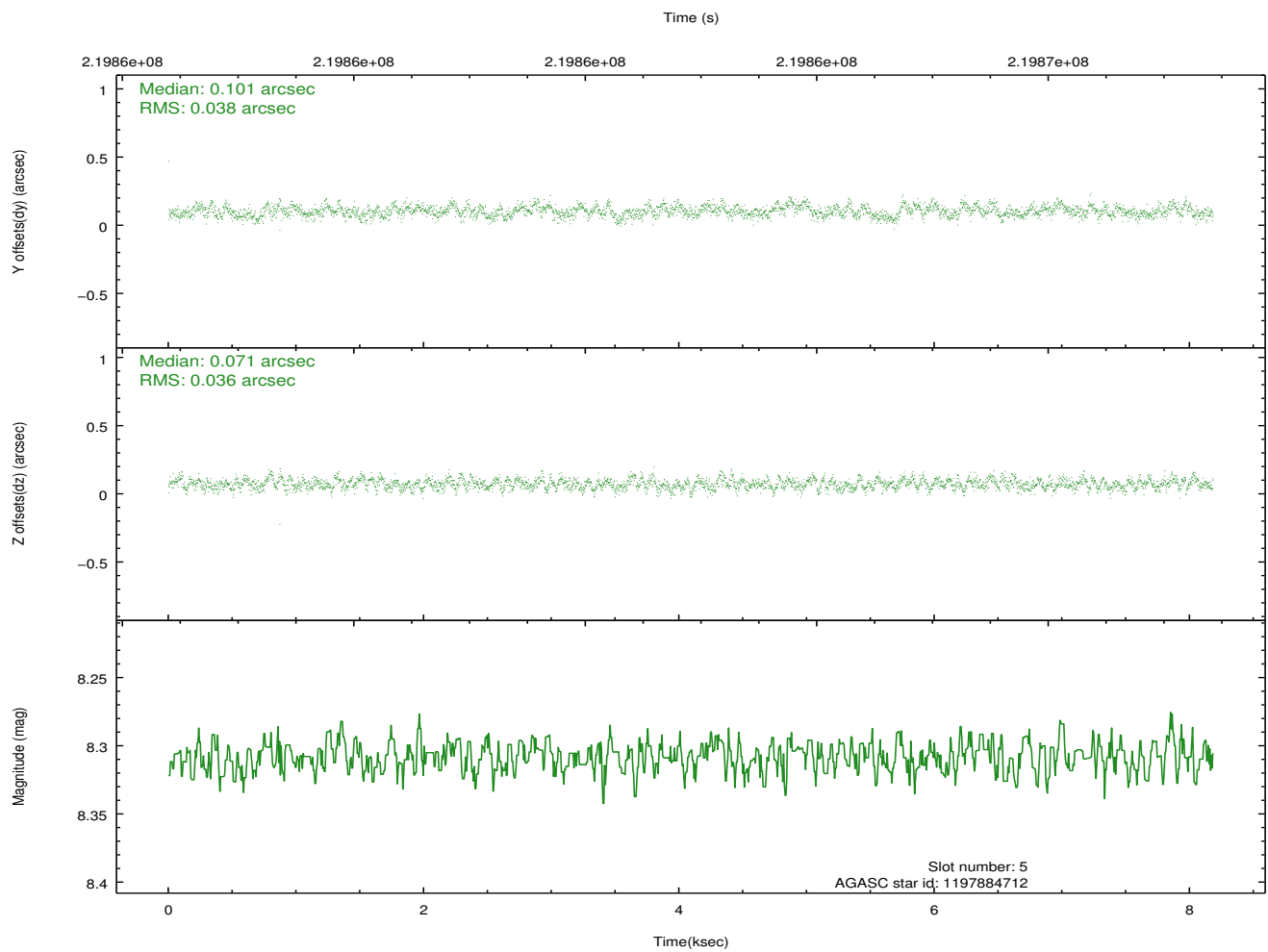
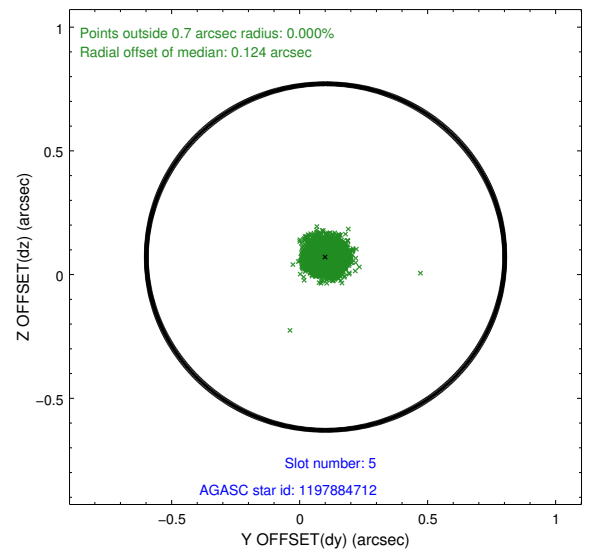
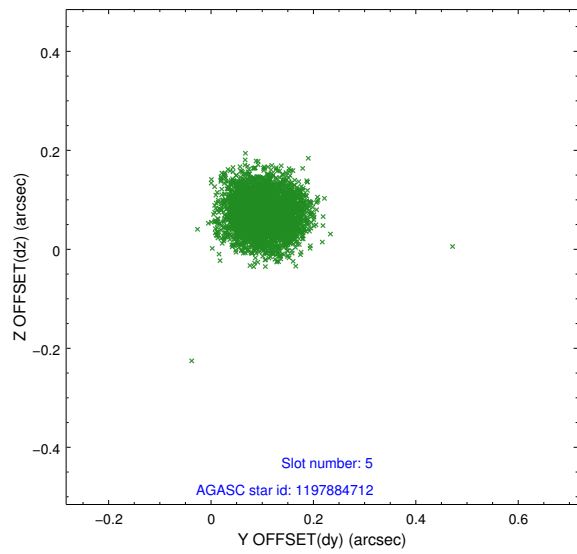
2.4.2 Slot 4



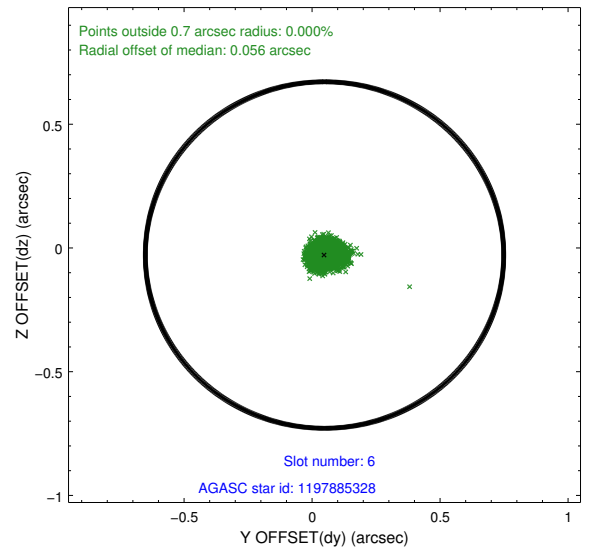
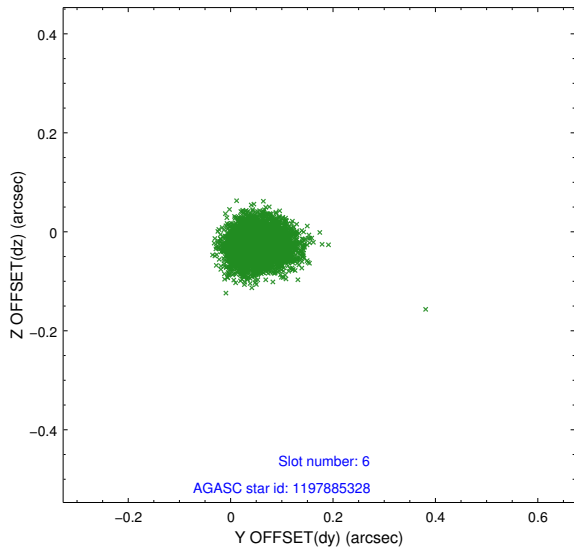
Time (s)



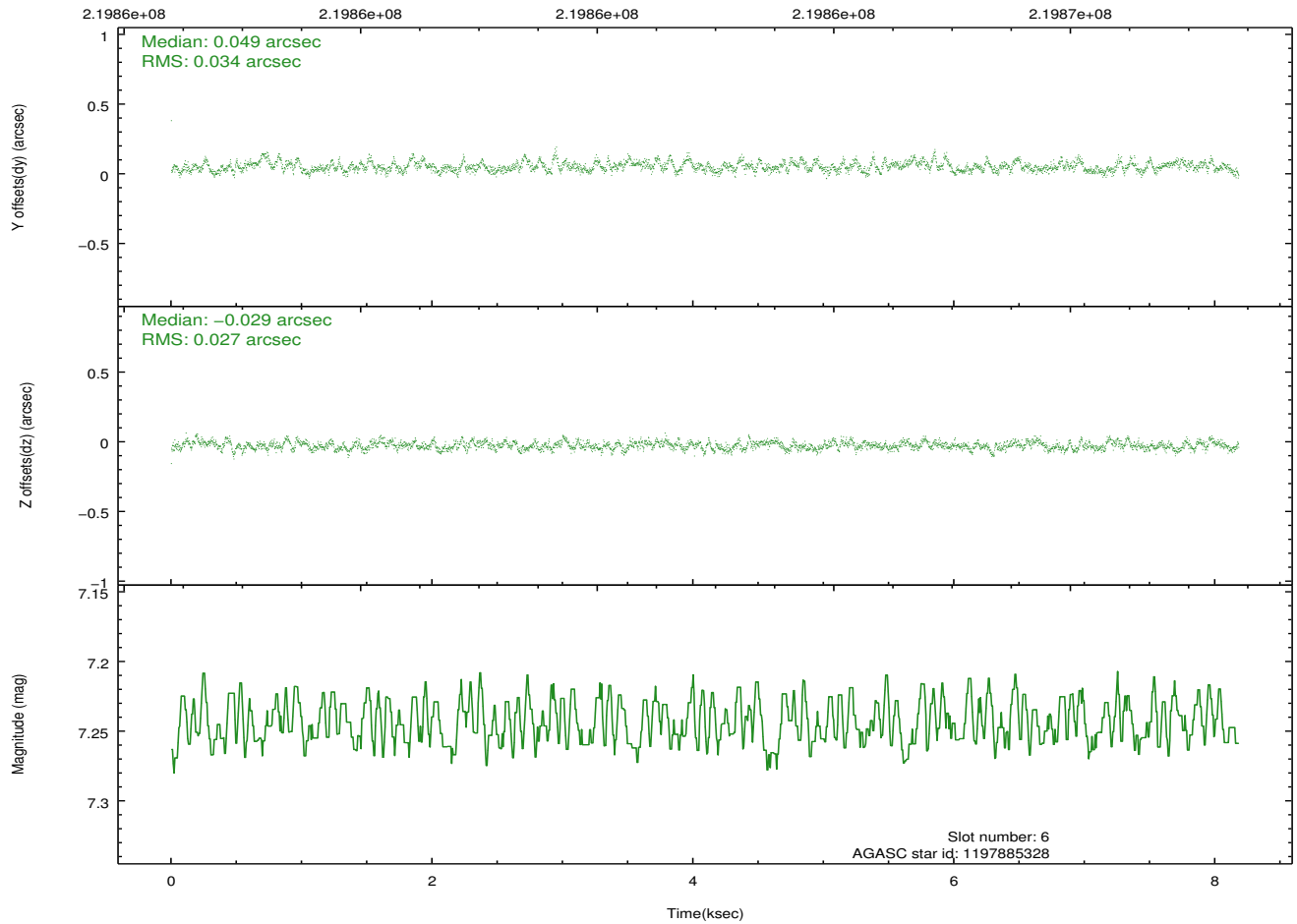
2.4.3 Slot 5



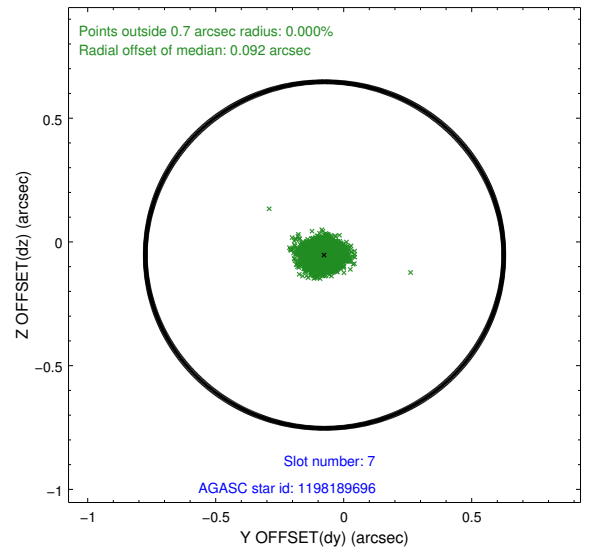
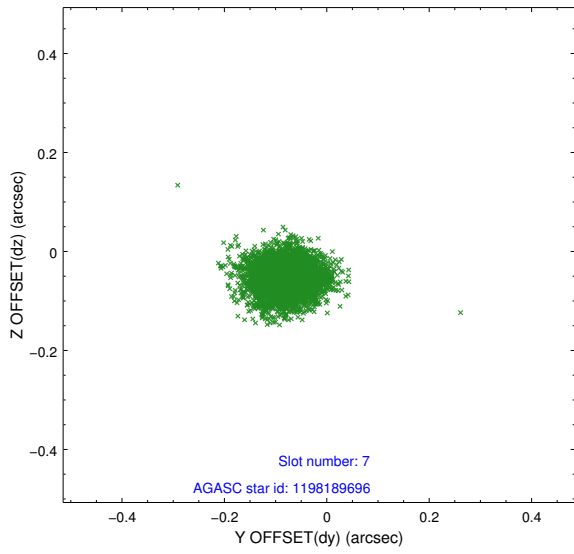
2.4.4 Slot 6



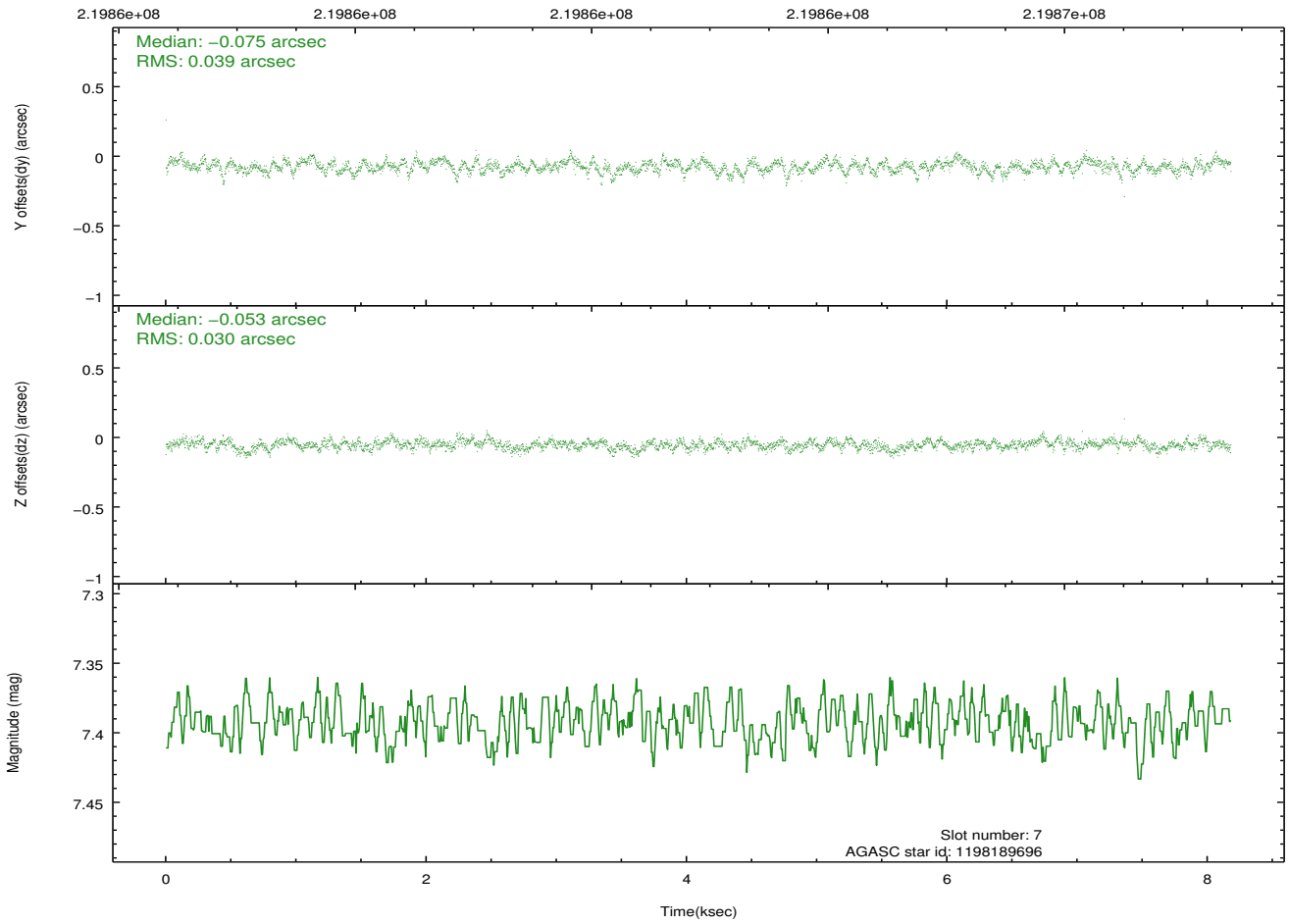
Time (s)



2.4.5 Slot 7

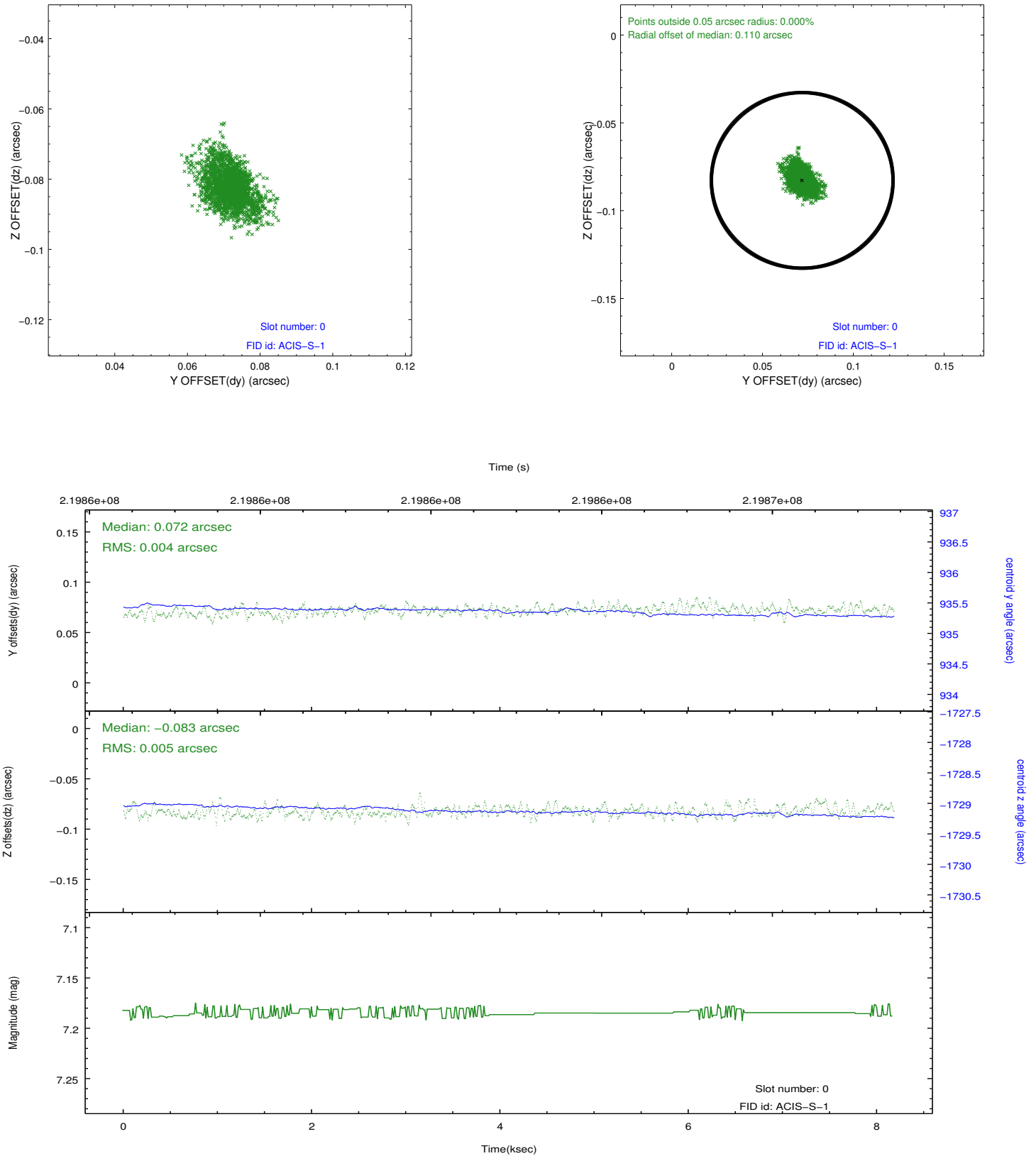


Time (s)

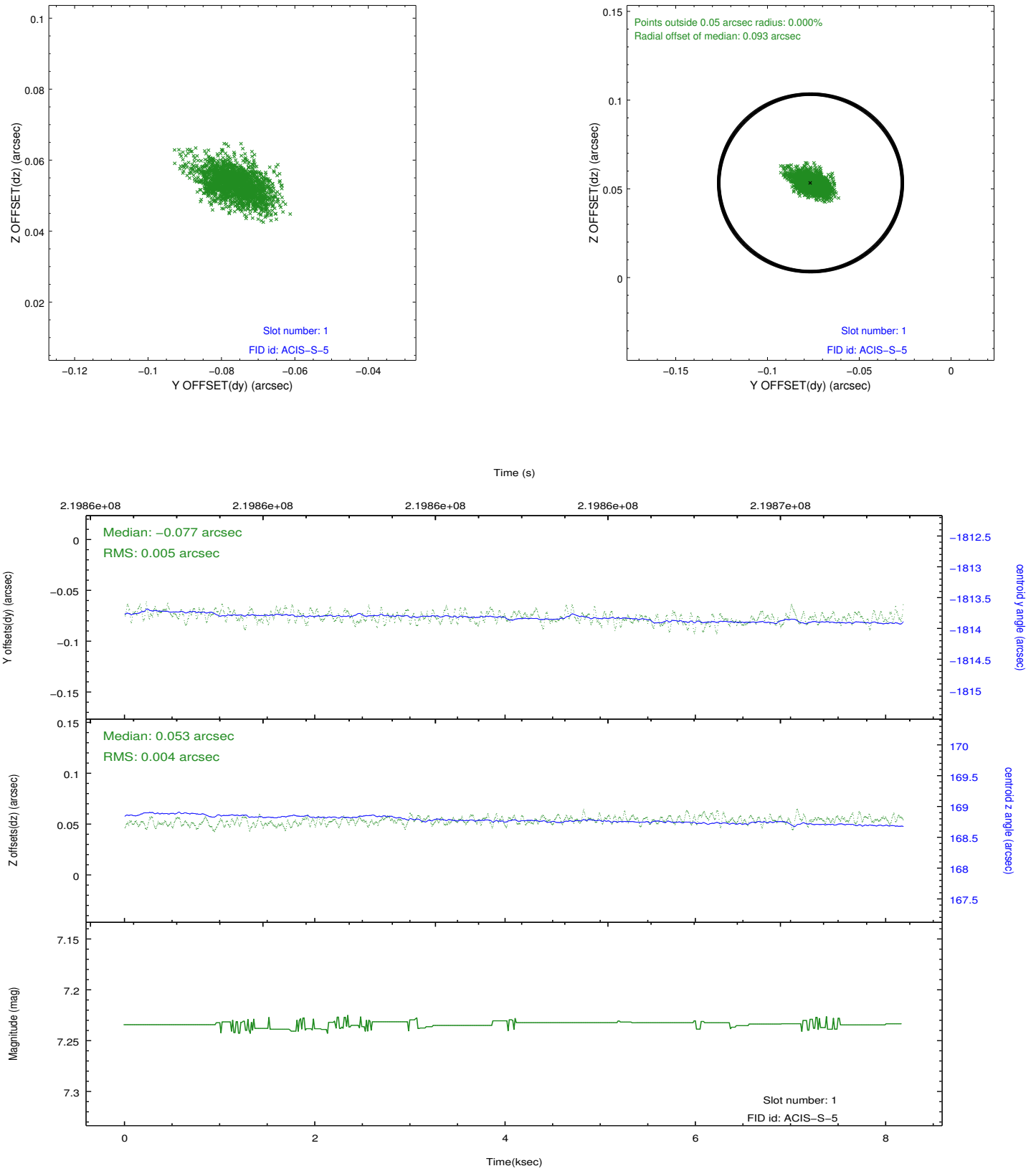


2.5 FID Slots

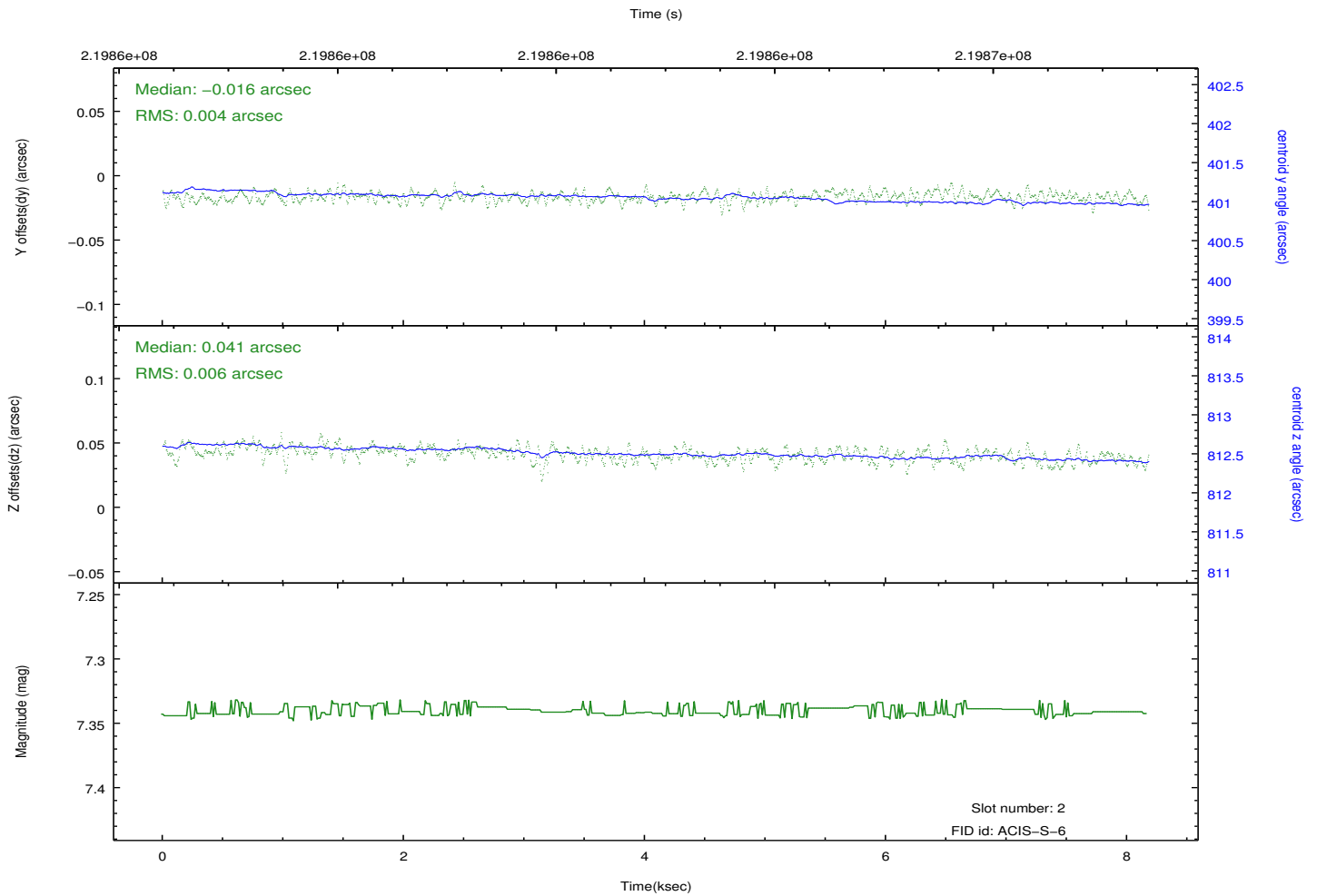
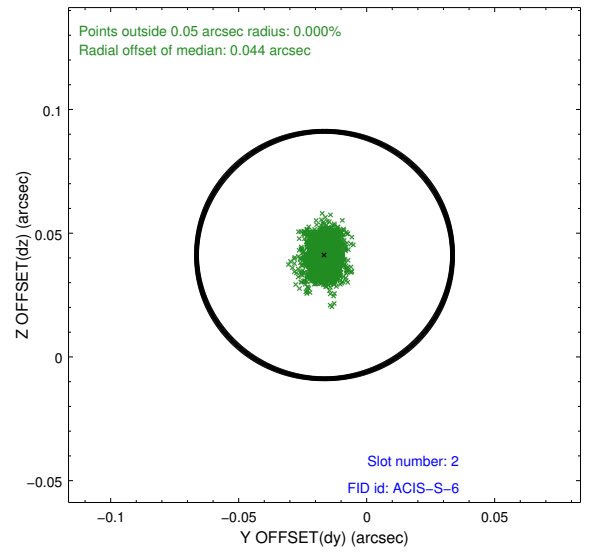
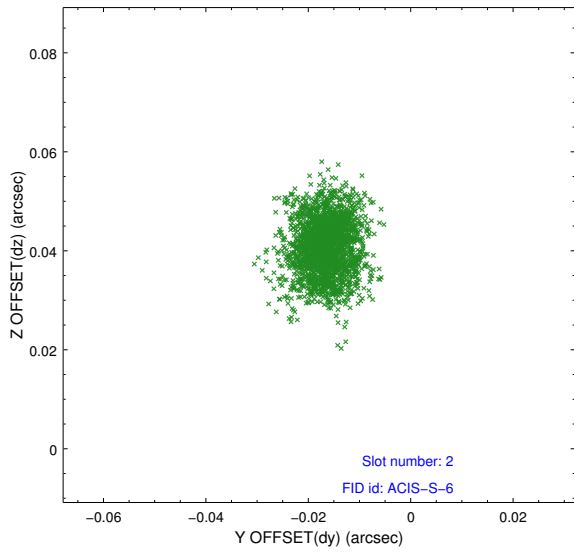
2.5.1 Slot 0



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)	2013.01.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.756799

A.2 Comments

Window constraint satisfied.