

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4197 - L2 Version 3
Chandra X-Ray Center

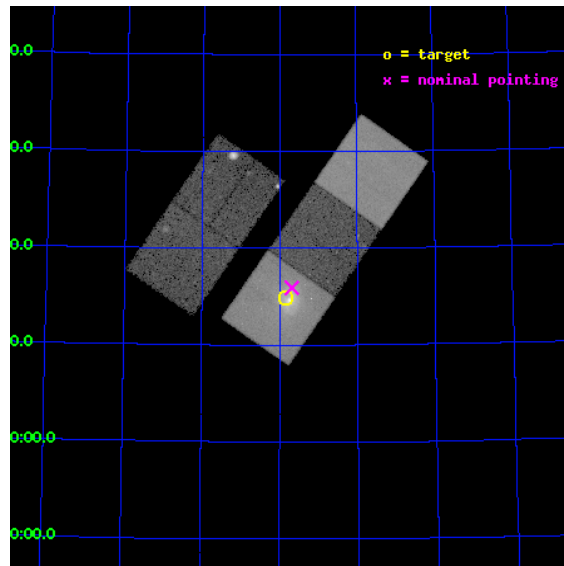
L2 Processing Date : Nov 8 2012

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1 Front

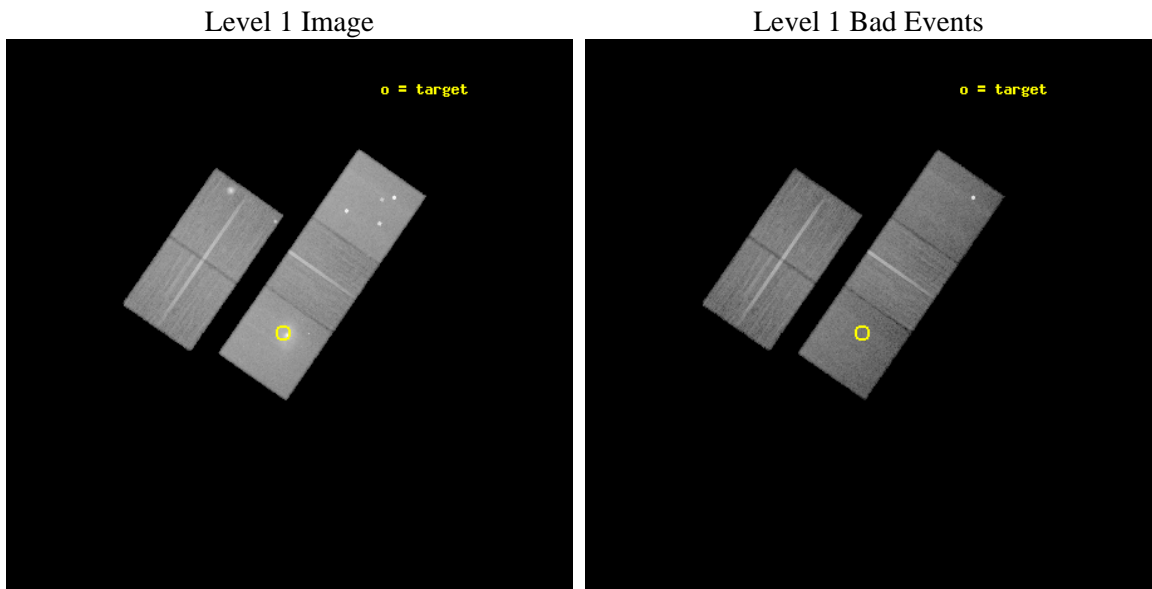
seq_num	800353	Sequence number
obs_id	4197	Observation id
title	REDUCED COOLING & FEEDBACK IN CLUSTER COOLING FLOWS	Proposal title
observer	Prof. Brian McNamara	Principal investigator
object	MS0735.6+7421	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	115.459167	Observer's specified target RA [deg]
dec_targ	74.2475	Observer's specified target Dec [deg]
ra_nom	115.42095978453	Nominal RA [deg]
dec_nom	74.265502659659	Nominal Dec [deg]
roll_nom	124.70213214088	Nominal Roll [deg]
revision	3	Processing version of data
ontime	46118.699911296	Sum of GTIs [s]
livetime	45516.125144862	Livetime [s]
ontime2	46118.699911296	Sum of GTIs [s]
ontime3	46118.699911296	Sum of GTIs [s]
ontime5	46118.699911296	Sum of GTIs [s]
ontime6	46112.417960793	Sum of GTIs [s]
ontime7	46118.699911296	Sum of GTIs [s]
l2events	344743	Number of level 2 events



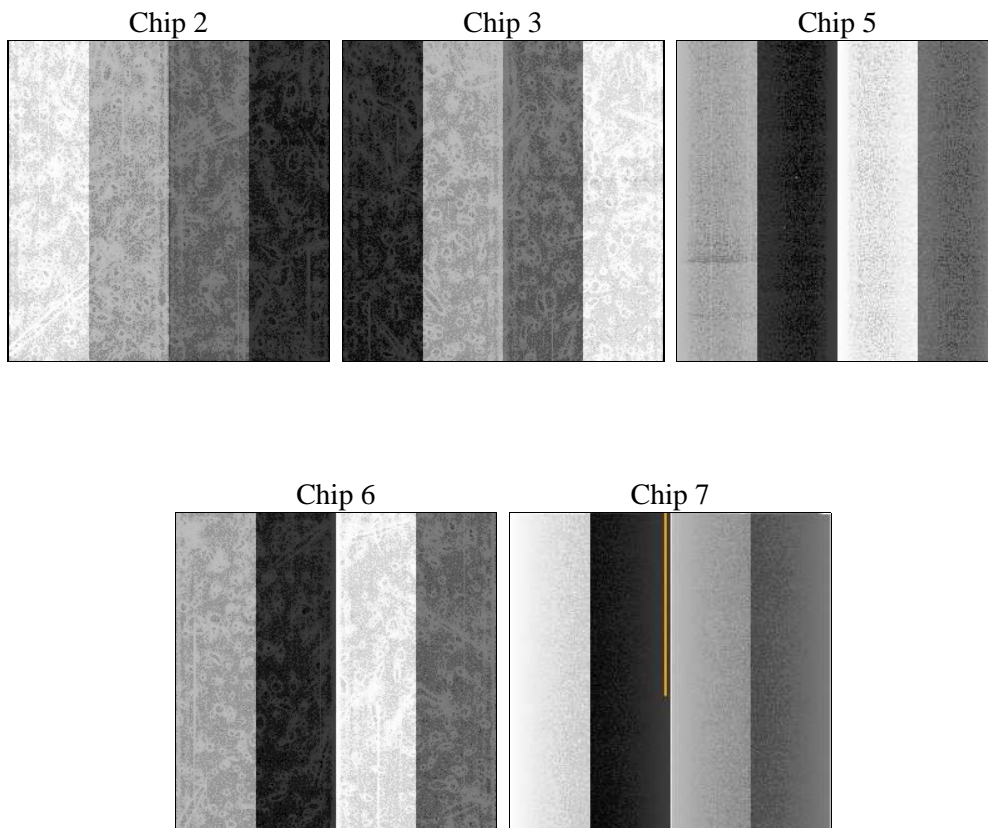
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	45986.499000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	46118.699911296	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	46118.699911296	Sum of GTIs [s]
date	2012-11-08T09:21:04	Date and time of file creation	ontime3	46118.699911296	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	46118.699911296	Sum of GTIs [s]
			ontime6	46112.417960793	Sum of GTIs [s]
			ontime7	46118.699911296	Sum of GTIs [s]
			l1events	1229399	Number of level 1 events

2.1.4 Events

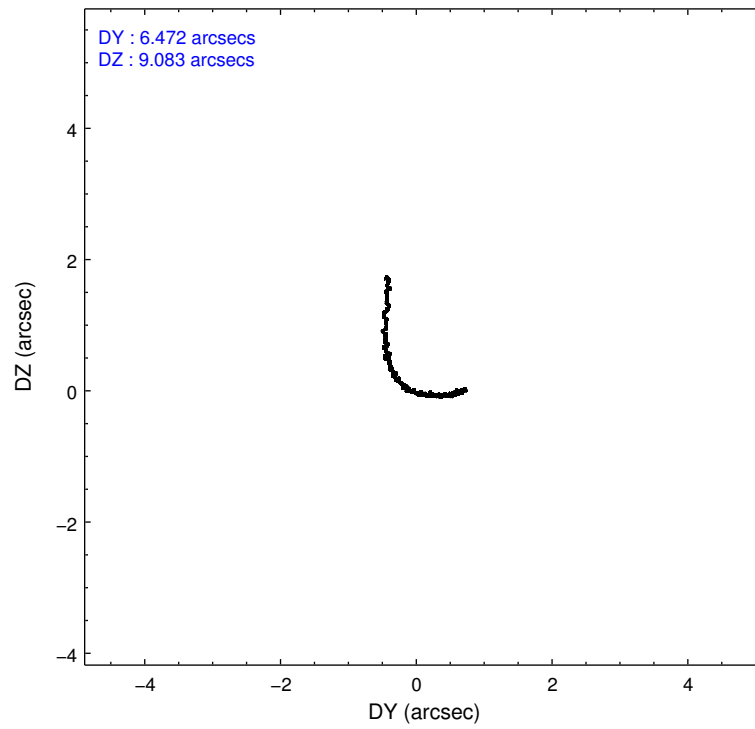
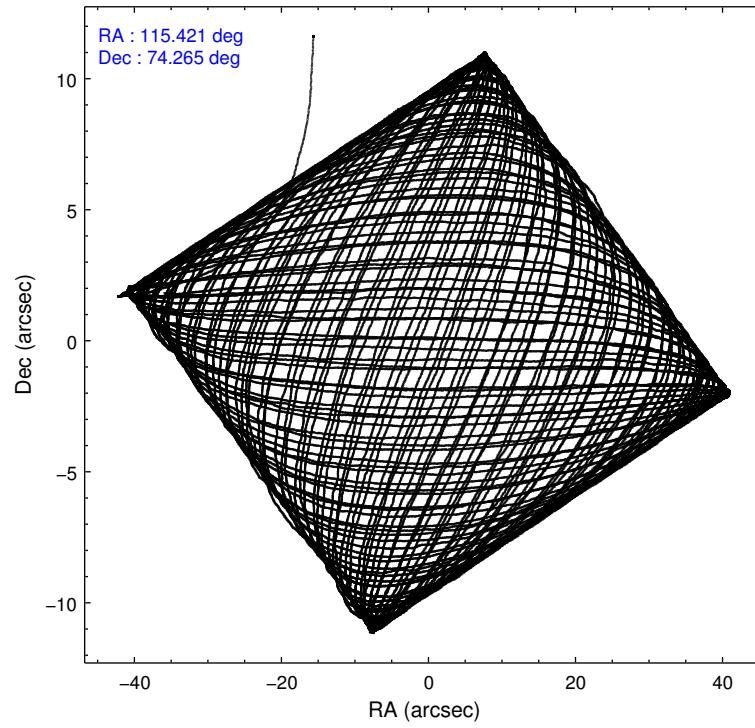
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	217215	205350	308455	211389	286990
rejected events	189003	185404	154005	188131	131438
rejected %	87%	90%	49%	88%	45%

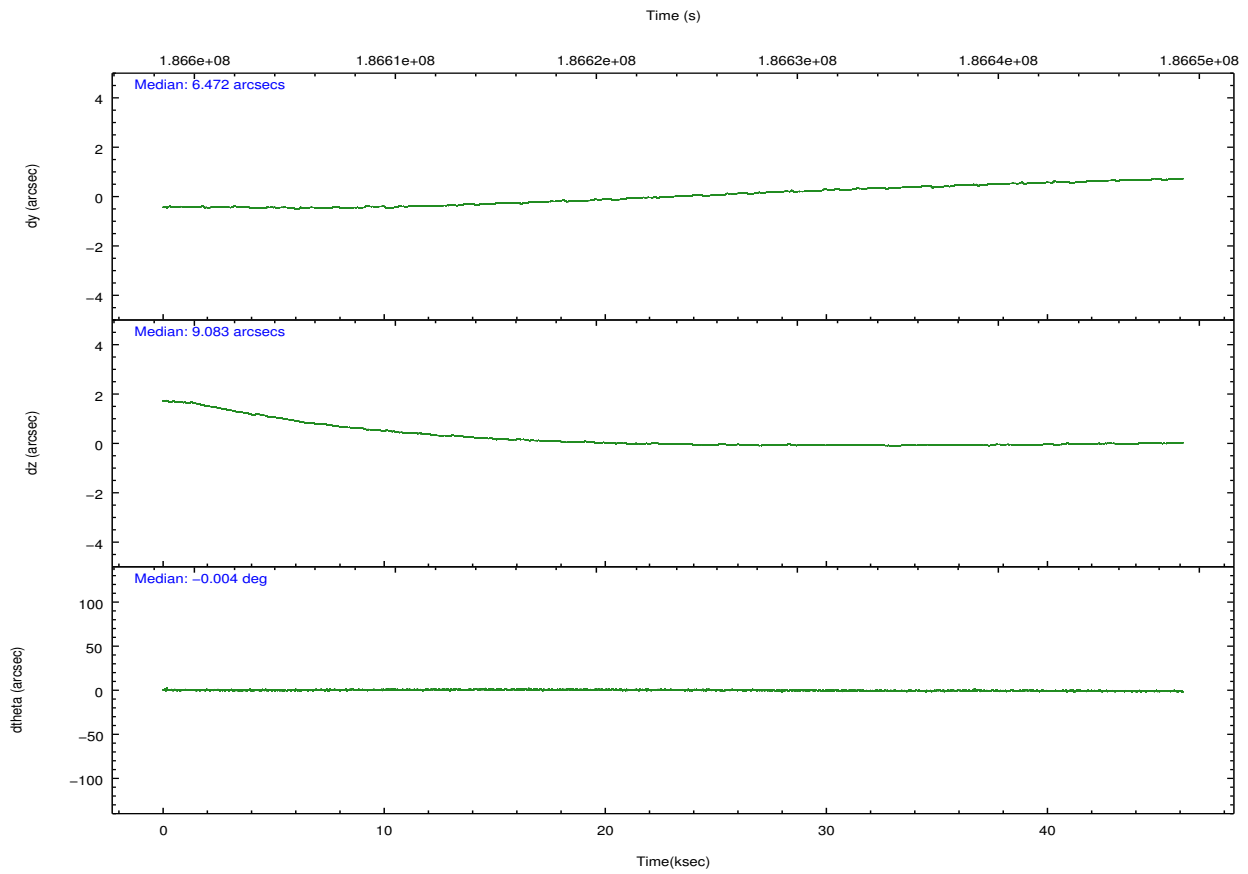
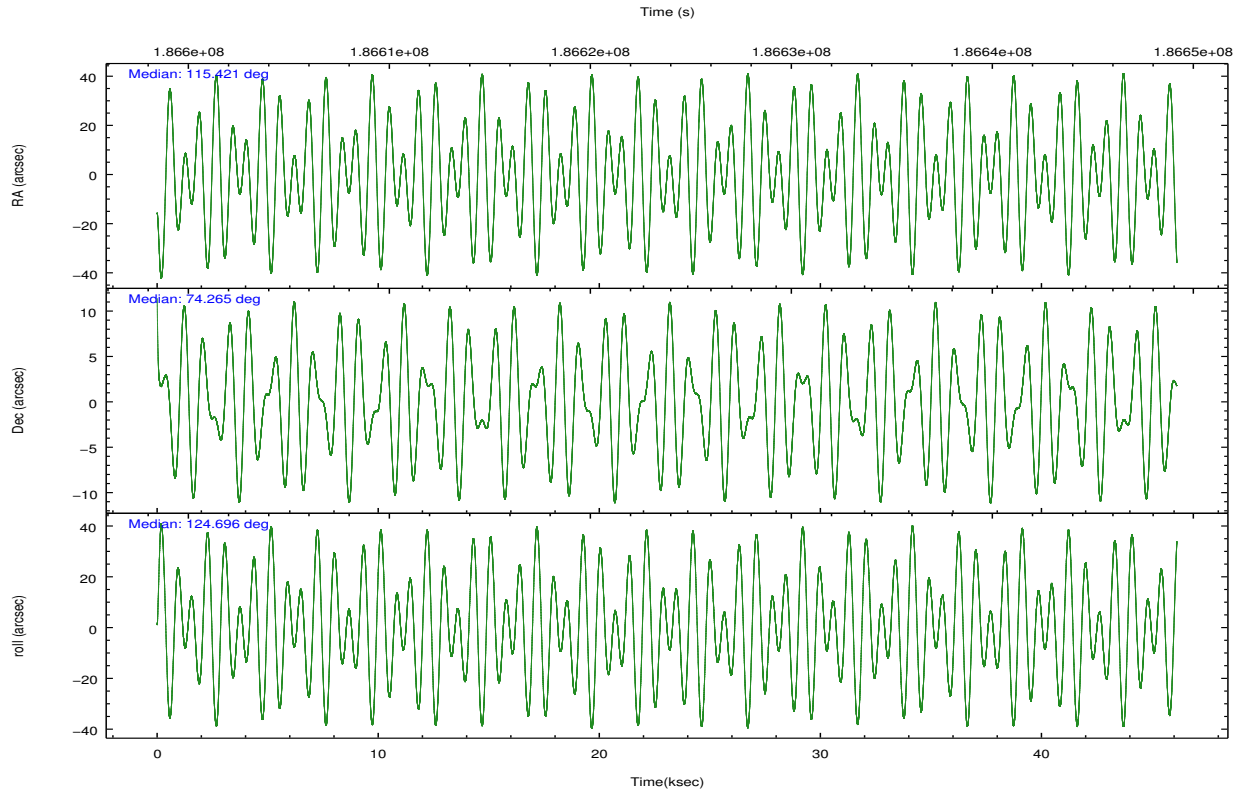
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	13957	7110	25187	8627	25636
	6%	3%	8%	4%	8%
grade 1 events	111	105	243	84	208
	0%	0%	0%	0%	0%
grade 2 events	5497	4304	45155	4877	34377
	2%	2%	14%	2%	11%
grade 3 events	2575	2406	6321	2570	15846
	1%	1%	2%	1%	5%
grade 4 events	2515	2288	5967	2575	15885
	1%	1%	1%	1%	5%
grade 5 events	7156	8414	23927	8769	25499
	3%	4%	7%	4%	8%
grade 6 events	3876	3986	72989	4768	64773
	1%	1%	23%	2%	22%
grade 7 events	181528	176737	128666	179119	104766
	83%	86%	41%	84%	36%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	115.512300	115.4209597845276	Subarray requested	NONE	NONE
[deg] Pointing Dec	74.254160	74.26550265965949	Alternating exposures requested	N	N
[deg] Pointing Roll	124.457590	124.7021321408767	[s] Primary exposure time	0.000000	3.1
[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)	186600893.184000	186599748.74309			
Observation start date	2003-11-30T17:33:49	2003-11-30T17:15:48			
[s] Observation end time (MET)	186646880.184000	186647194.45764			
Observation end date	2003-12-01T06:20:16	2003-12-01T06:26:34			
Read mode	TIMED	TIMED			

2.3 Aspect



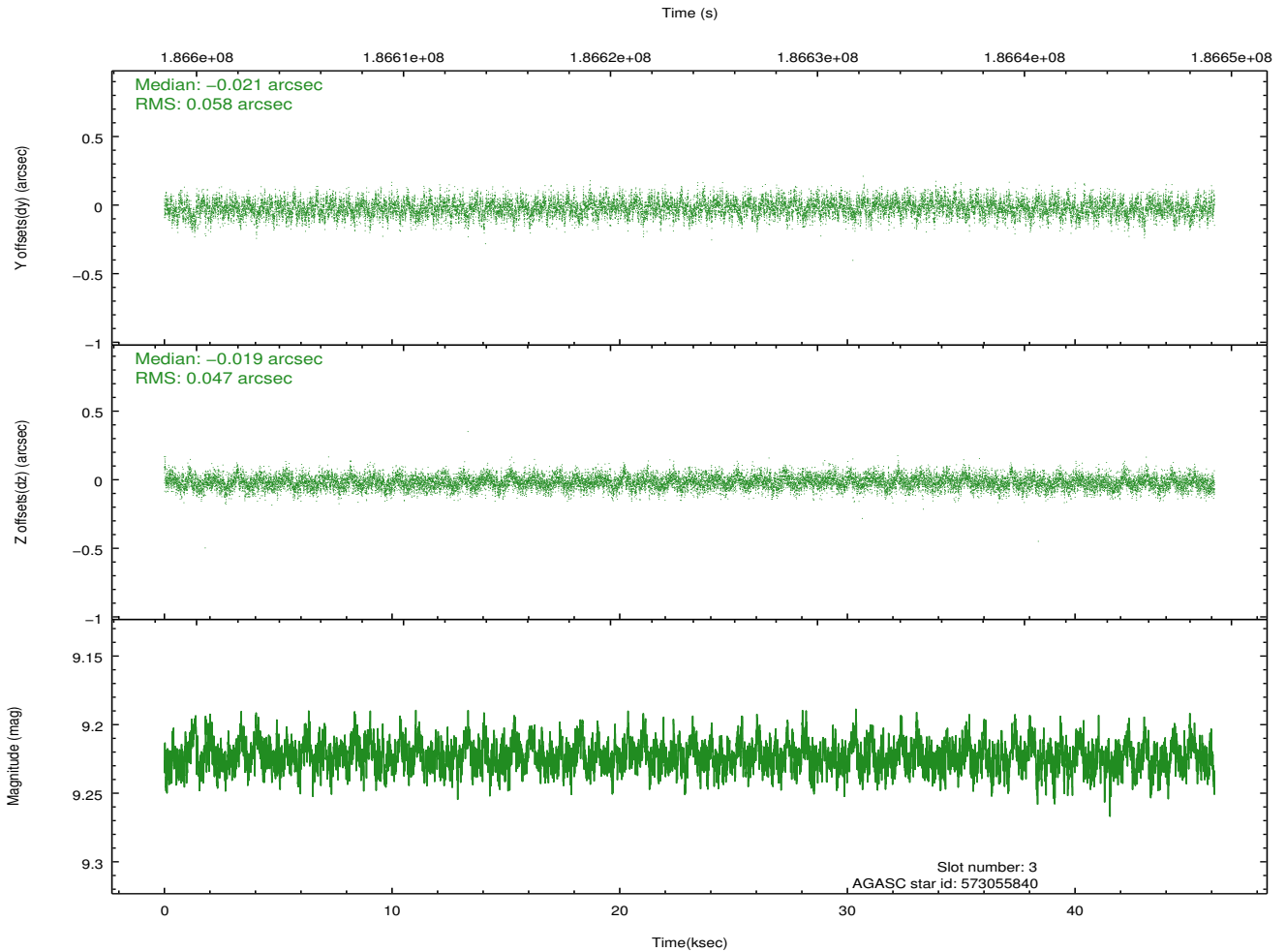
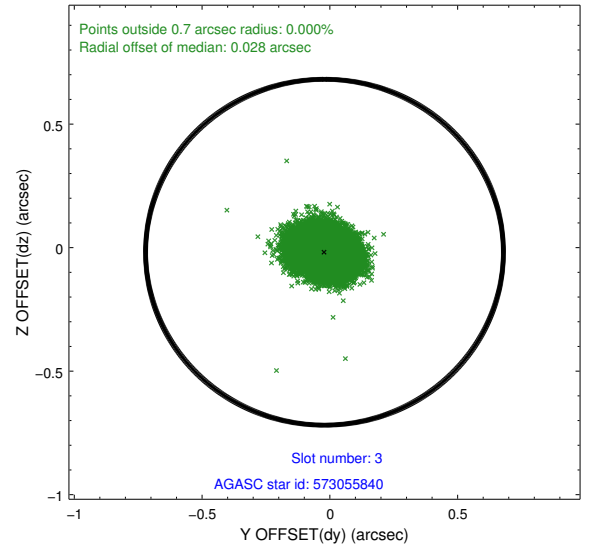
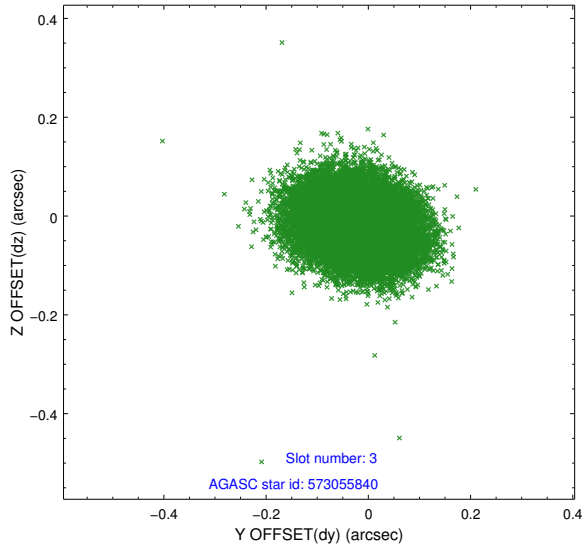


Slot Statistics

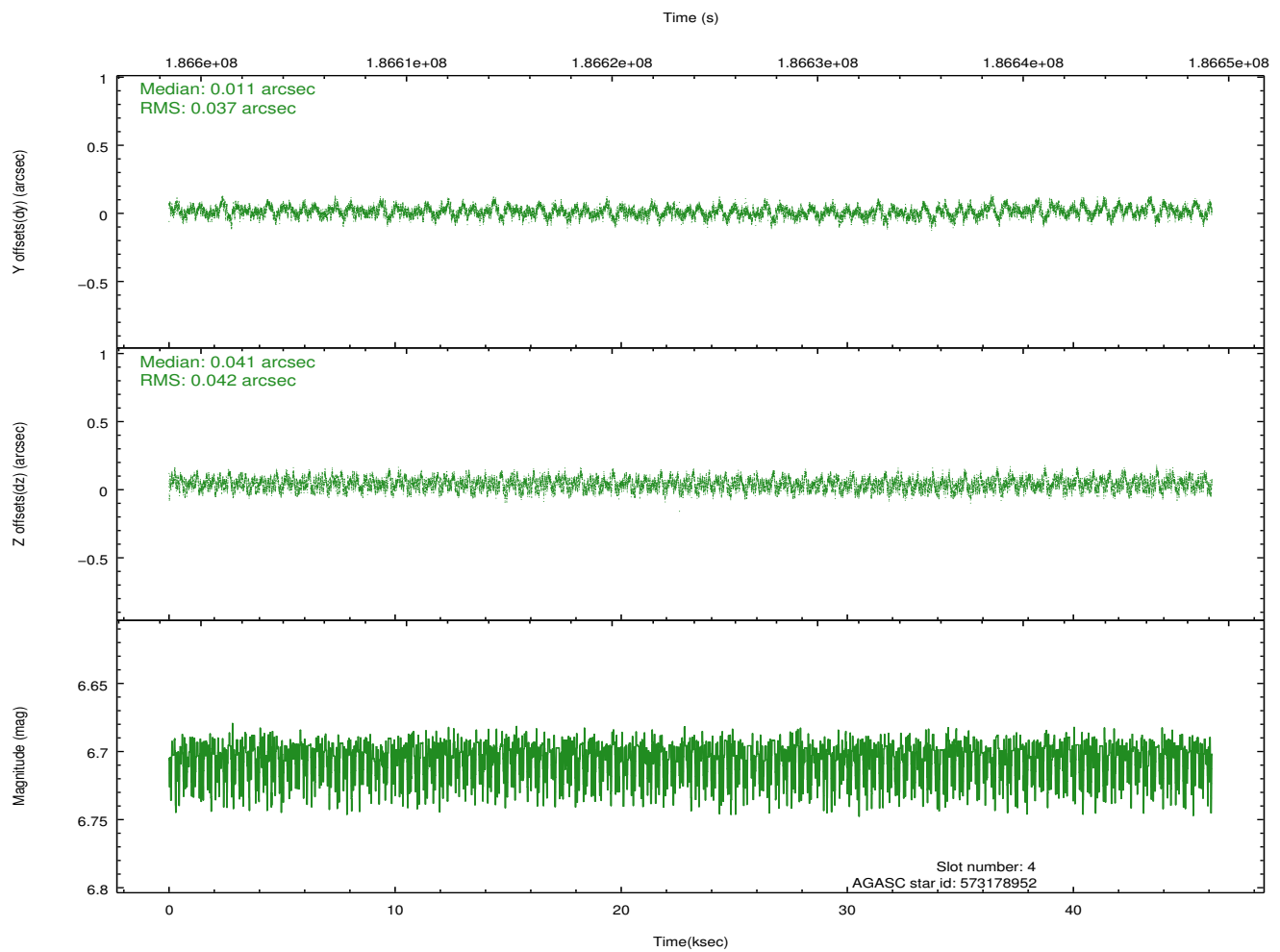
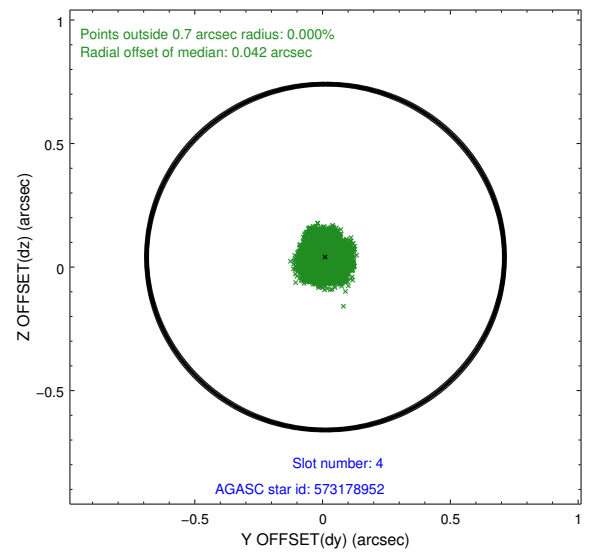
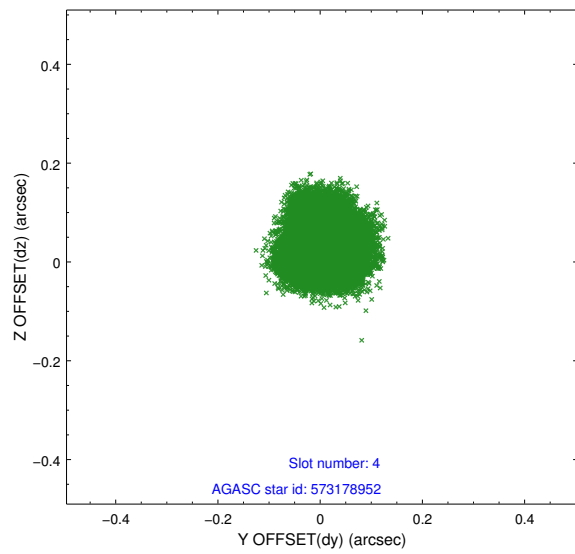
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	11251	-0.059	-0.033	0.012	0.030	0.000000	0.000000	-759.29	-1730.60
1	FID	ACIS-S-4	7.20	11251	0.045	0.034	0.011	0.017	0.000000	0.000000	2154.08	177.96
2	FID	ACIS-S-6	7.35	11251	-0.018	0.005	0.014	0.021	0.000000	0.000000	402.71	815.31
3	GUIDE	573055840	9.22	22494	-0.021	-0.019	0.079	0.129	113.597023	74.523847	1865.81	951.09
4	GUIDE	573178952	6.70	22502	0.011	0.041	0.062	0.094	117.150959	74.043209	-1525.15	-919.86
5	GUIDE	573179776	9.12	22496	0.058	0.094	0.082	0.132	115.887555	74.372574	146.59	-541.68
6	GUIDE	573180248	7.76	22501	0.103	-0.190	0.060	0.097	114.639898	73.595816	-1447.11	2068.68
7	GUIDE	573186336	10.73	22470	-0.153	0.072	0.182	0.293	115.333323	74.866487	1913.09	-1108.16

2.4 Star Slots

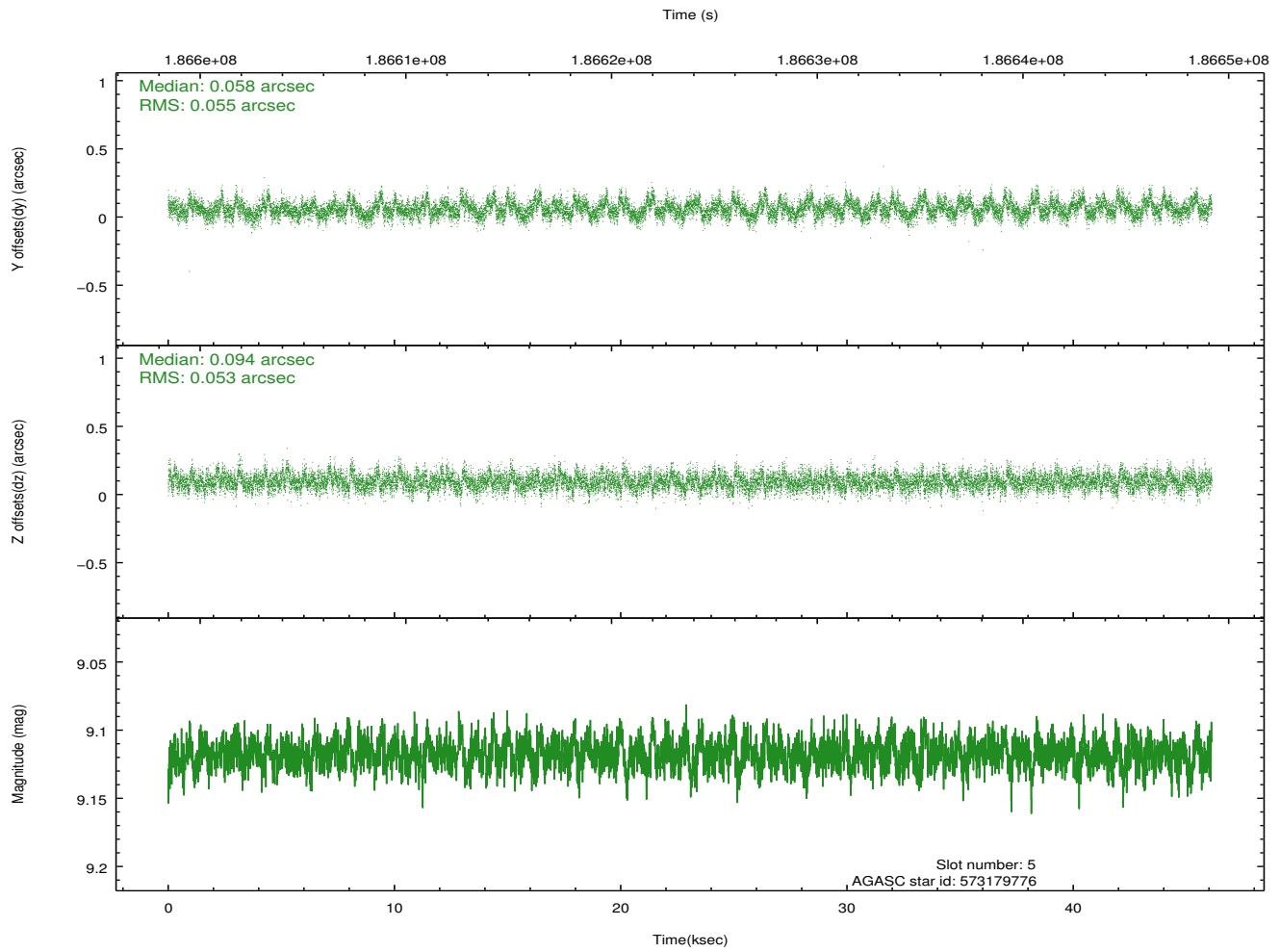
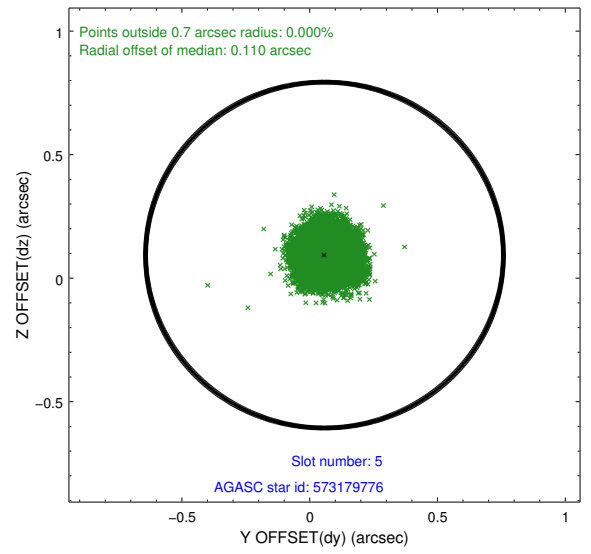
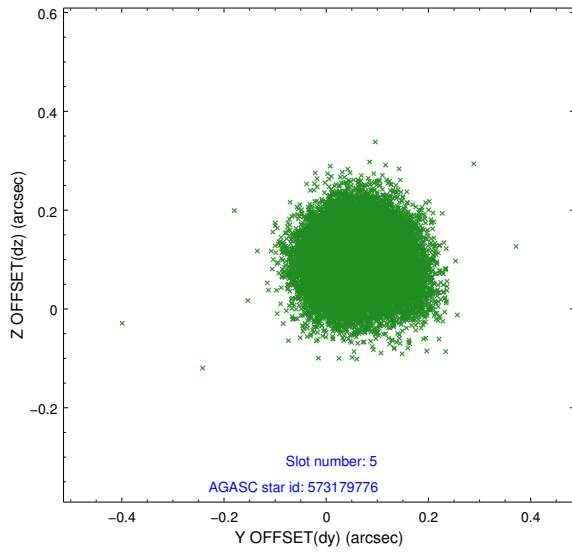
2.4.1 Slot 3



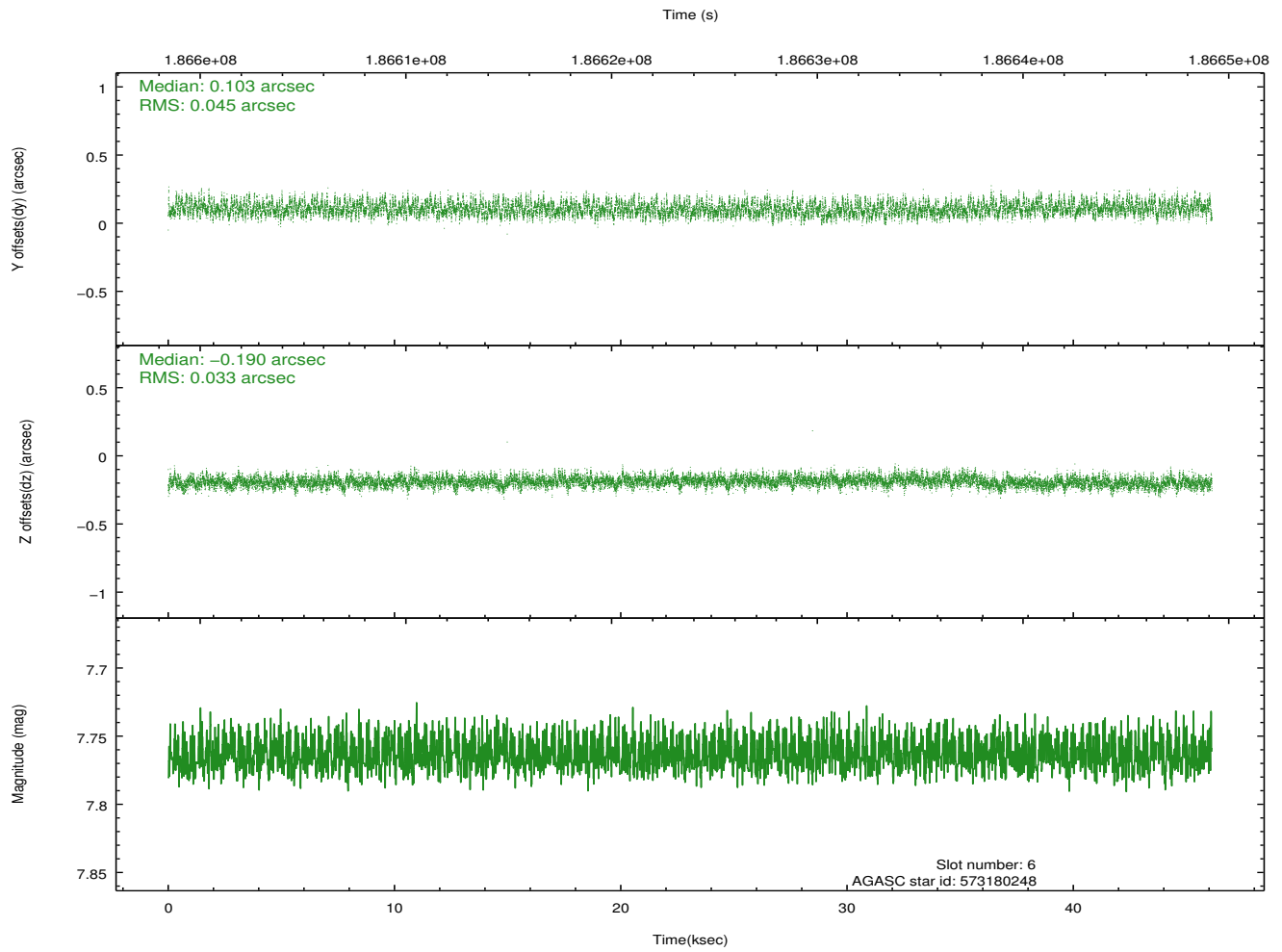
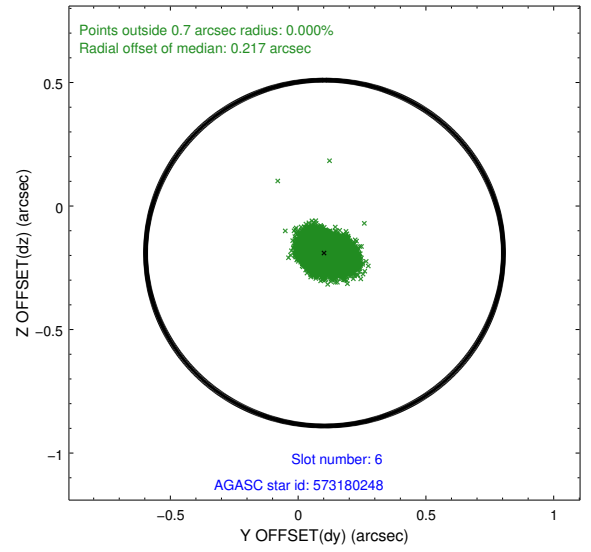
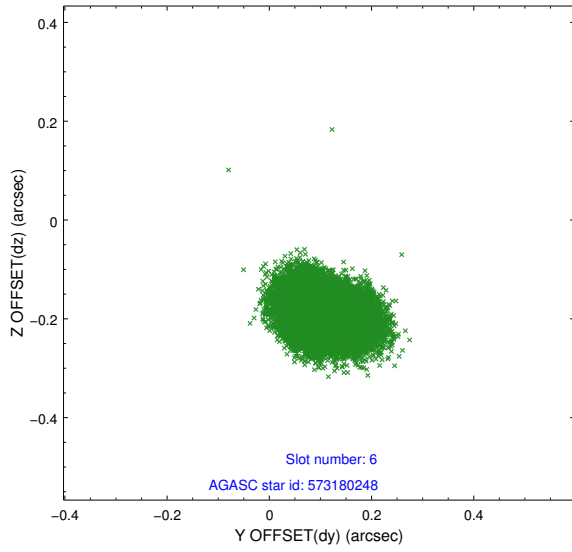
2.4.2 Slot 4



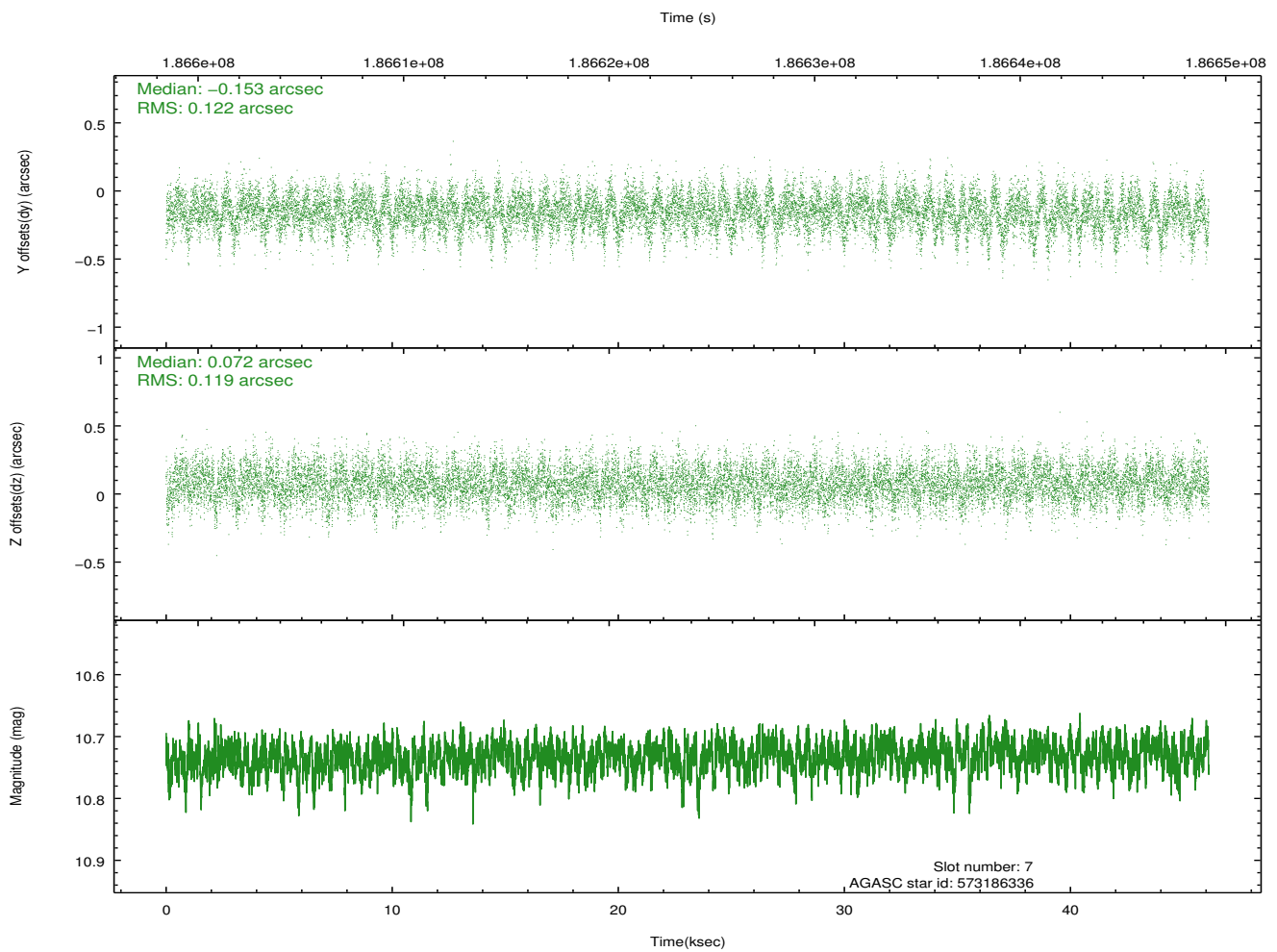
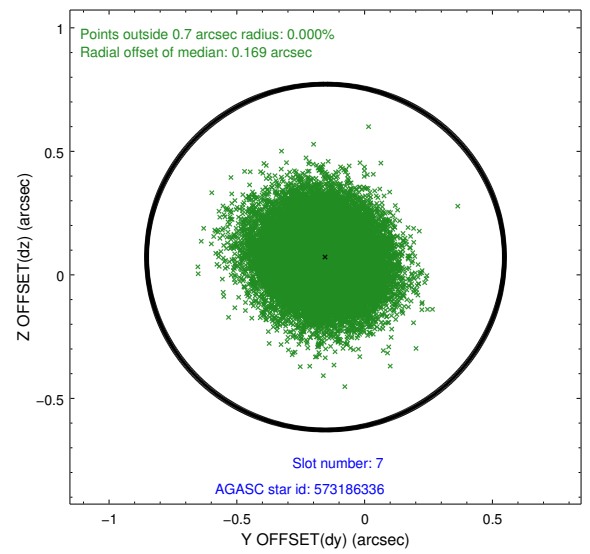
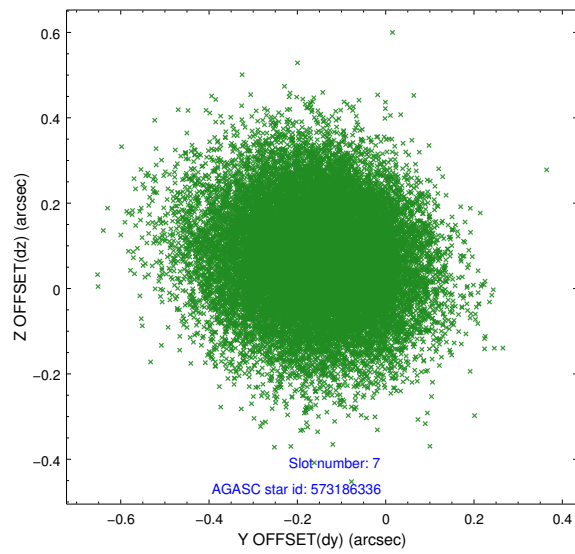
2.4.3 Slot 5



2.4.4 Slot 6

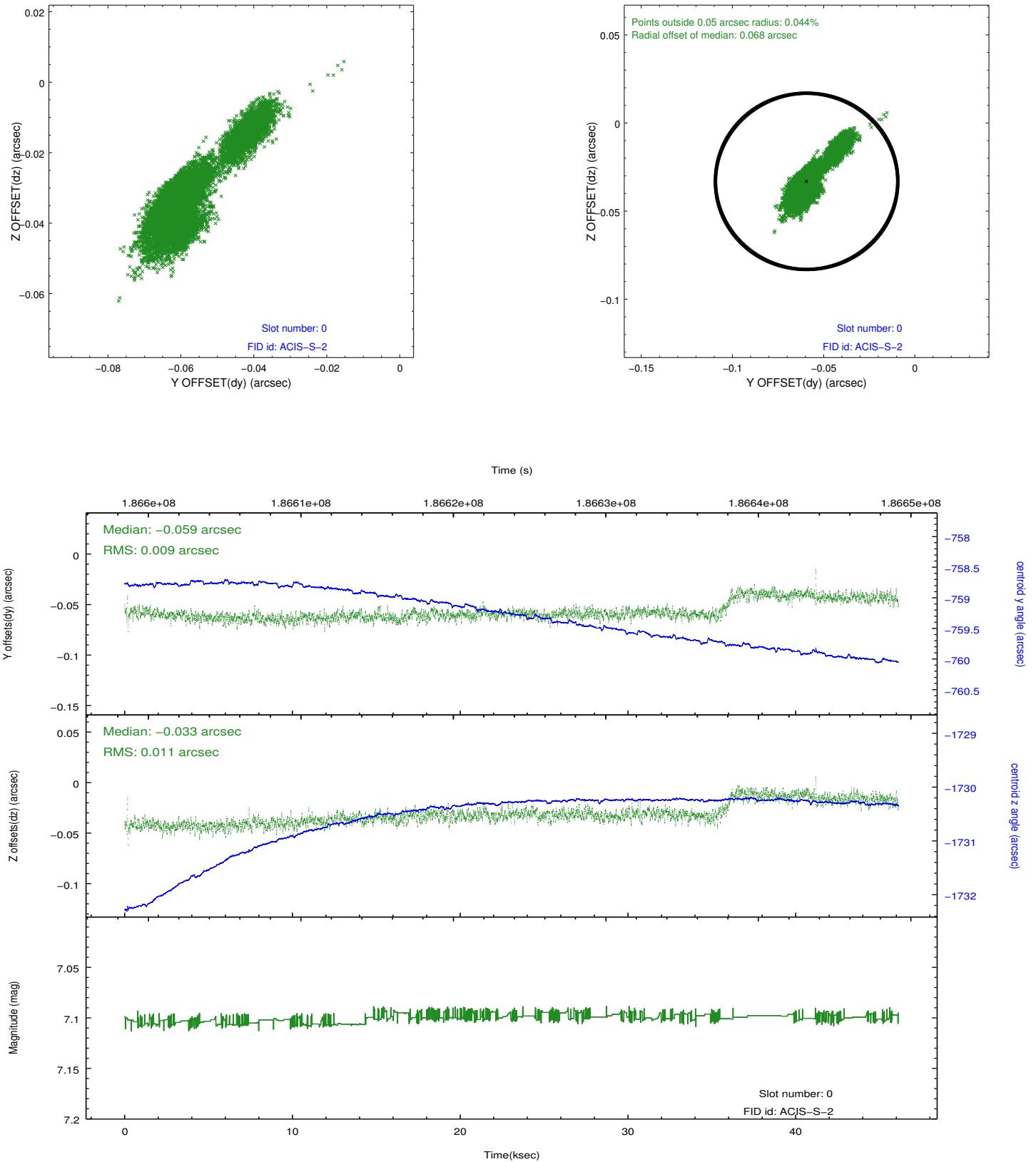


2.4.5 Slot 7

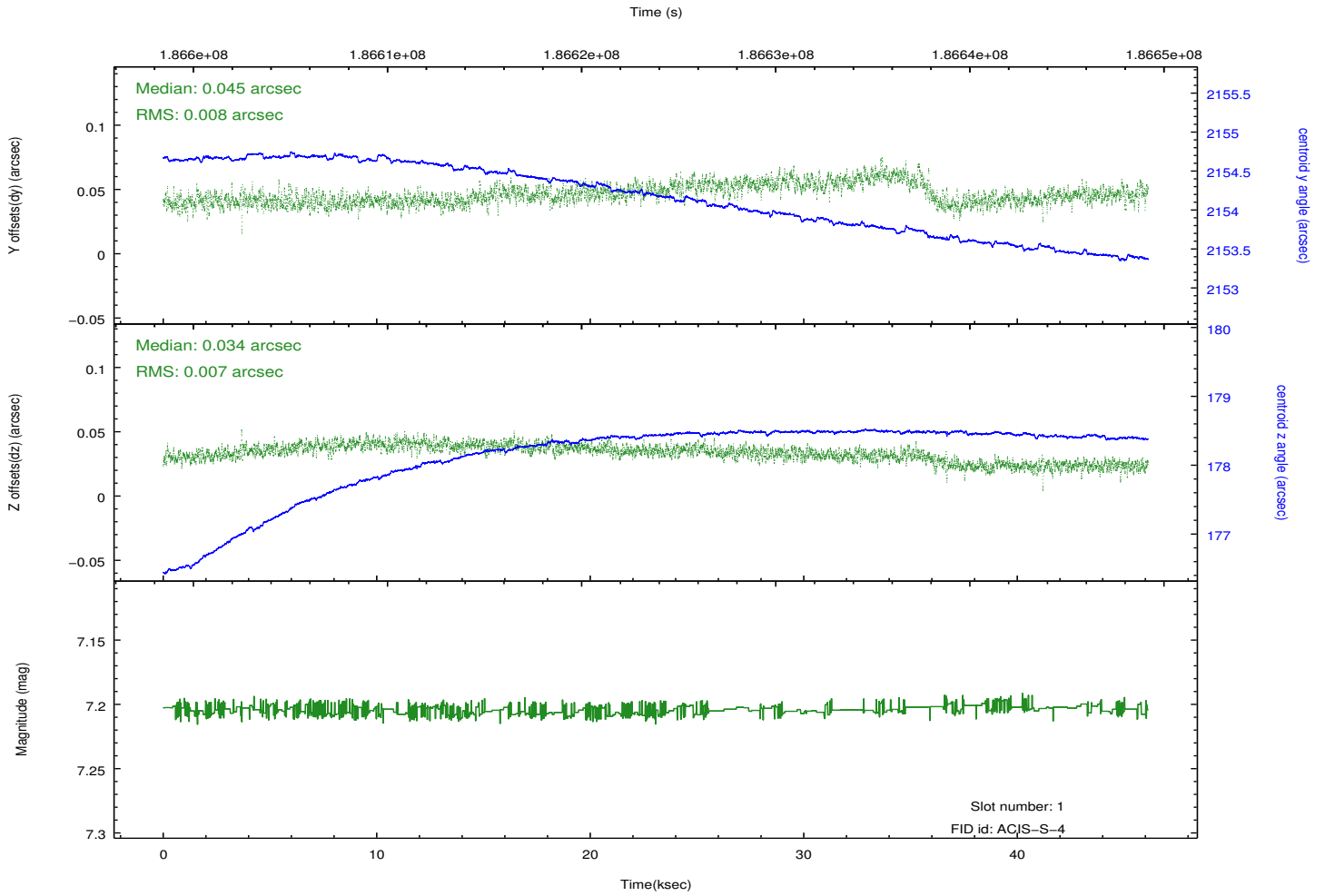
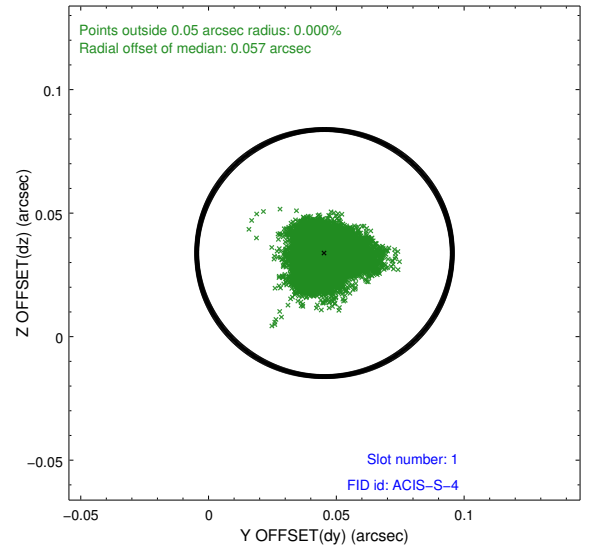
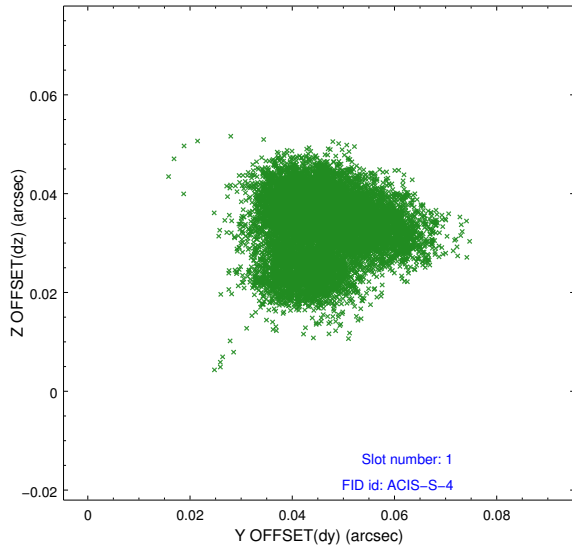


2.5 FID Slots

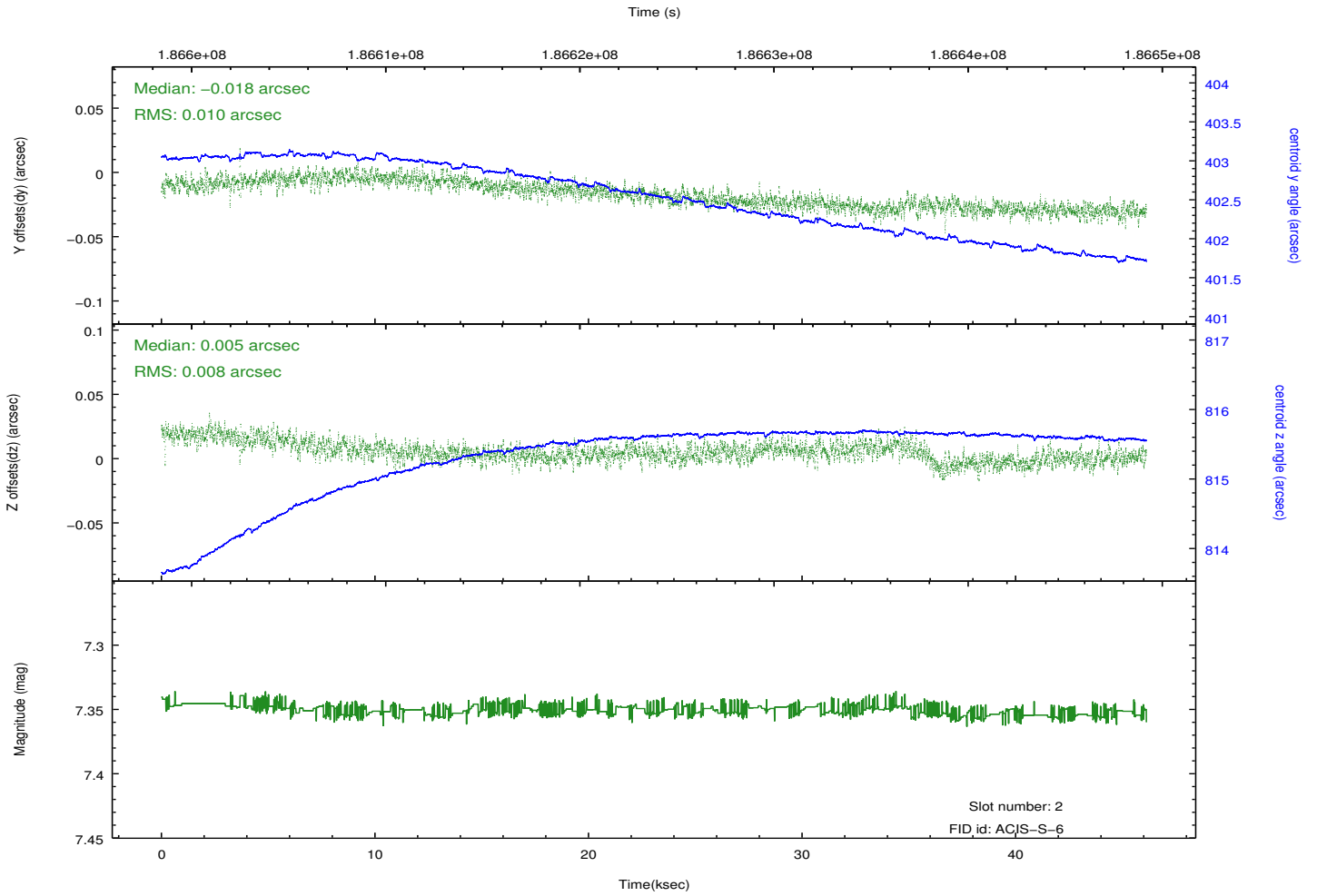
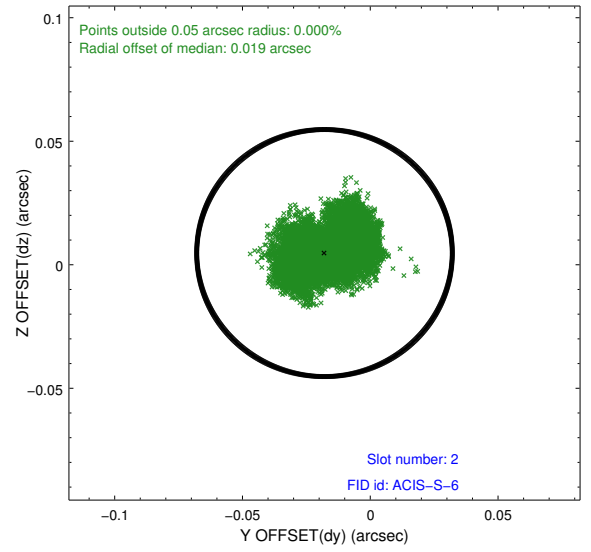
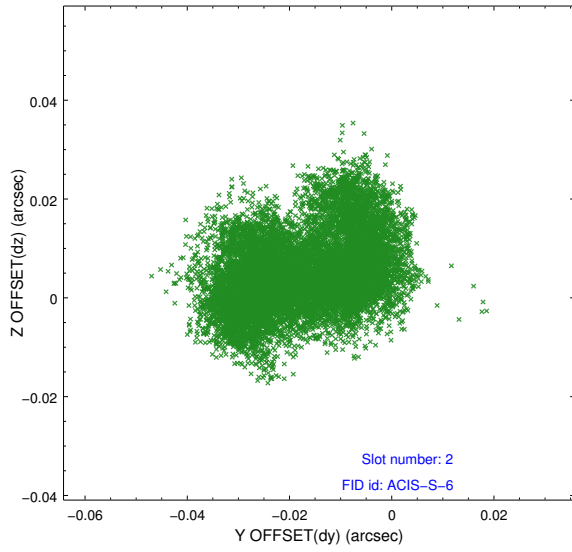
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.118

A.2 Comments