

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10999 - L2 Version 3
Chandra X-Ray Center

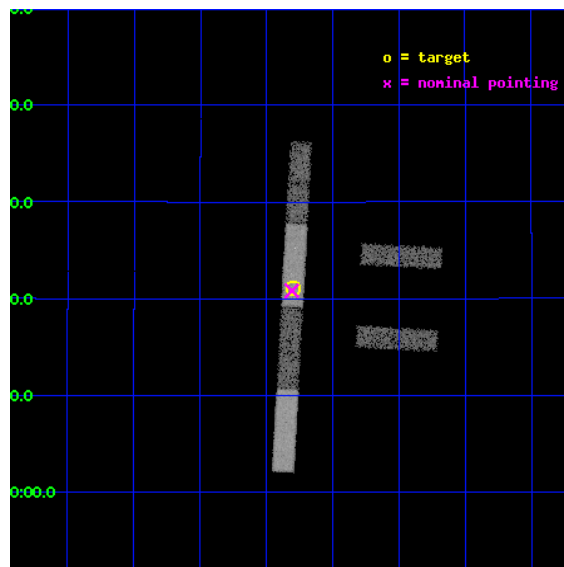
L2 Processing Date : Jun 21 2012

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1 Front

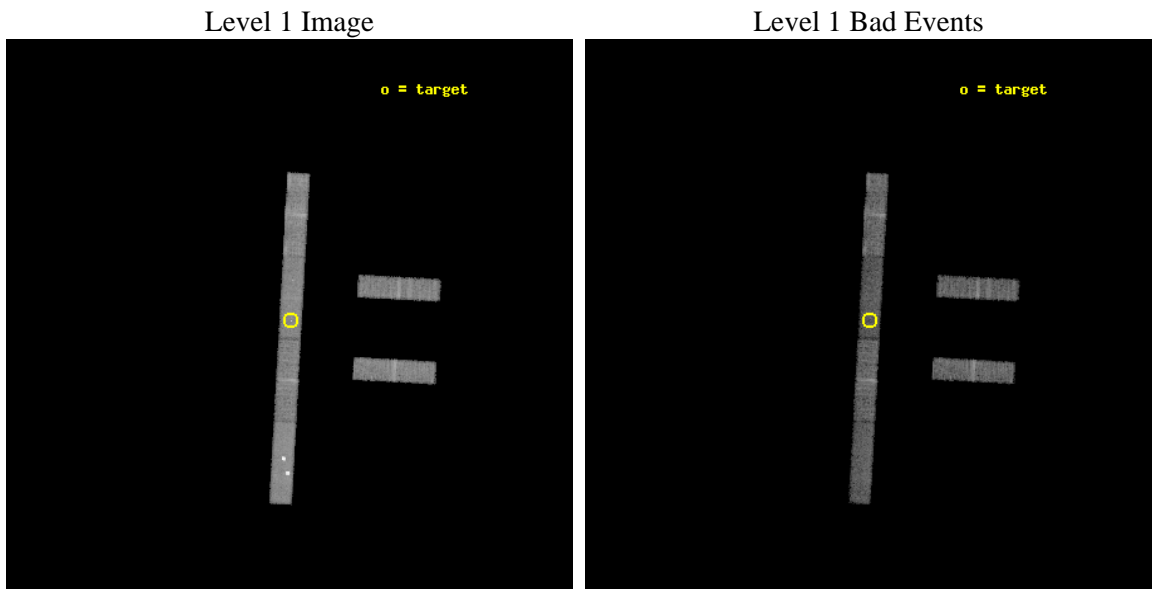
seq_num	200630	Sequence number
obs_id	10999	Observation id
title	NeII as a Tracer for X-Rays in Disks Around T Tauri Stars	Proposal
observer	Prof. Manuel Guedel	Principal investigator
object	LkCa 15	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	69.824167	Observer's specified target RA [deg]
dec_targ	22.350972	Observer's specified target Dec [deg]
ra_nom	69.827161677006	Nominal RA [deg]
dec_nom	22.346961688709	Nominal Dec [deg]
roll_nom	273.15548513546	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10179.400220633	Sum of GTIs [s]
livetime	9813.2758209141	Livetime [s]
ontime2	10178.259180486	Sum of GTIs [s]
ontime3	10179.400220633	Sum of GTIs [s]
ontime5	10179.400220633	Sum of GTIs [s]
ontime6	10179.400220633	Sum of GTIs [s]
ontime7	10179.400220633	Sum of GTIs [s]
ontime8	10178.259180605	Sum of GTIs [s]
l2events	38072	Number of level 2 events



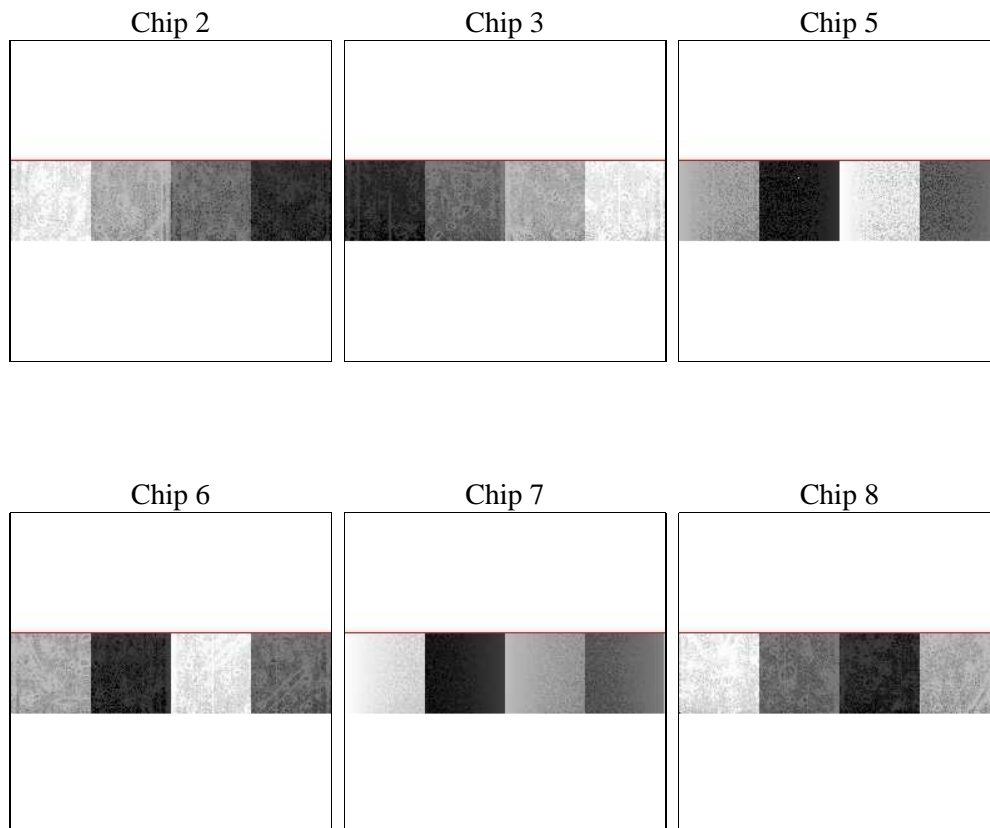
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10179.400220633	Sum of GTIs [s]
caldbver	4.4.10	 	ontime2	10178.259180486	Sum of GTIs [s]
date	2012-06-21T03:32:05	Date and time of file creation	ontime3	10179.400220633	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	10179.400220633	Sum of GTIs [s]
			ontime6	10179.400220633	Sum of GTIs [s]
			ontime7	10179.400220633	Sum of GTIs [s]
			ontime8	10178.259180605	Sum of GTIs [s]
			l1events	213075	Number of level 1 events

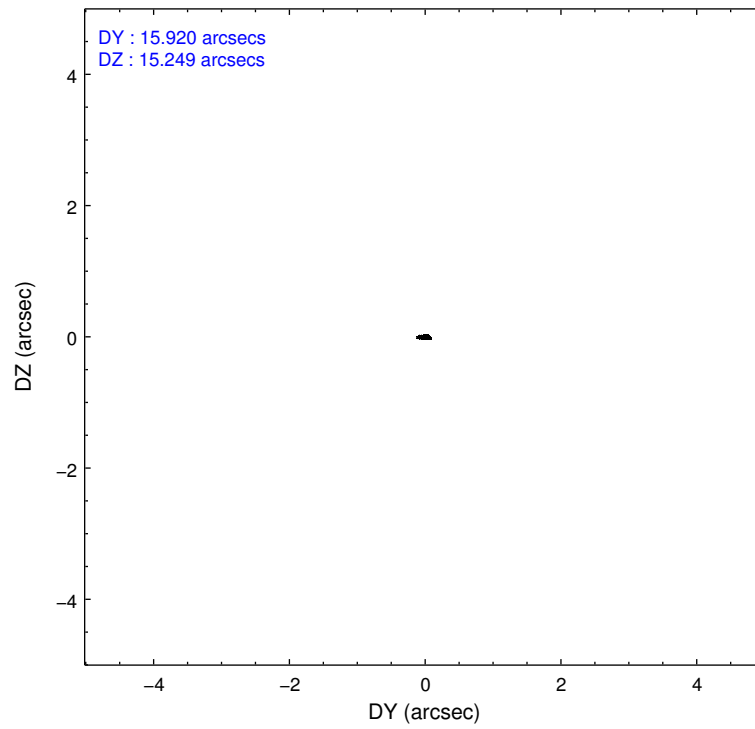
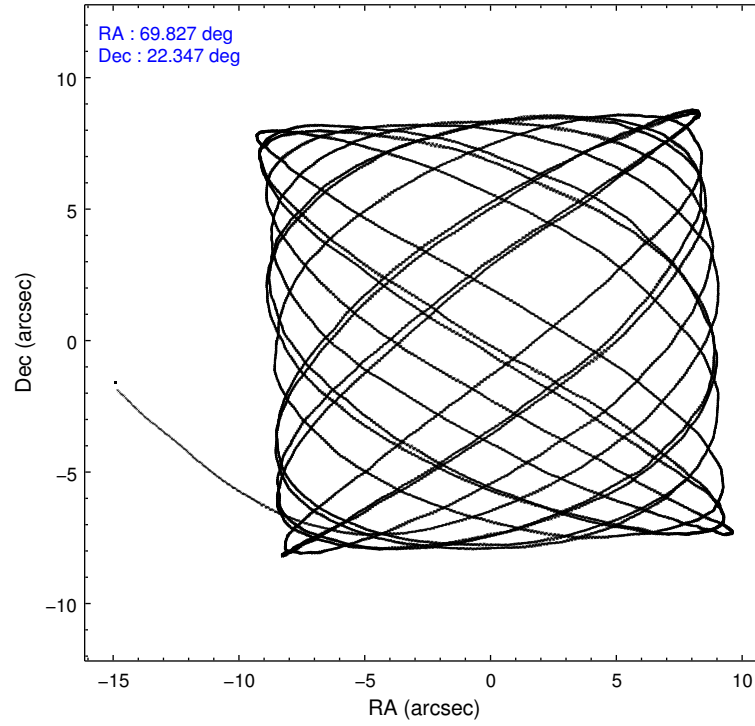
2.1.4 Events

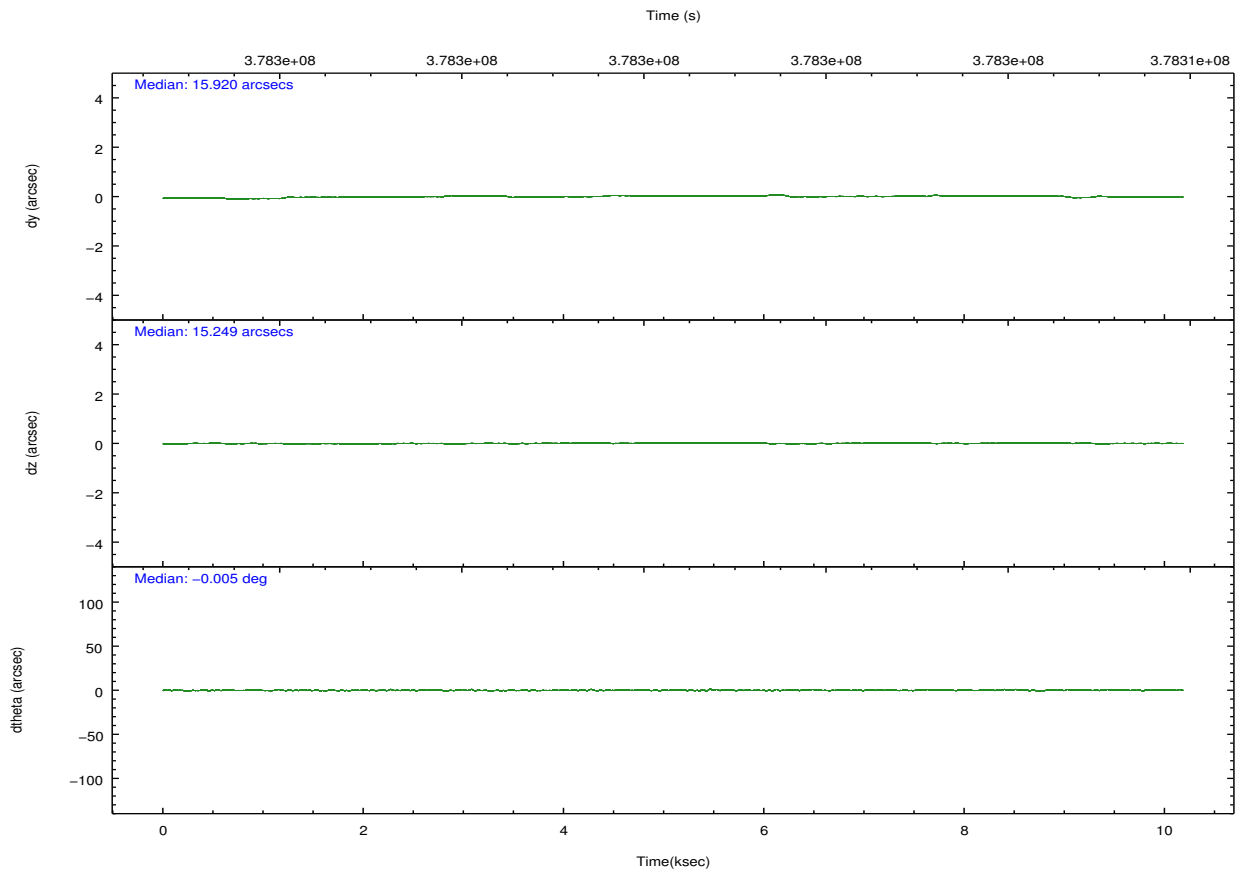
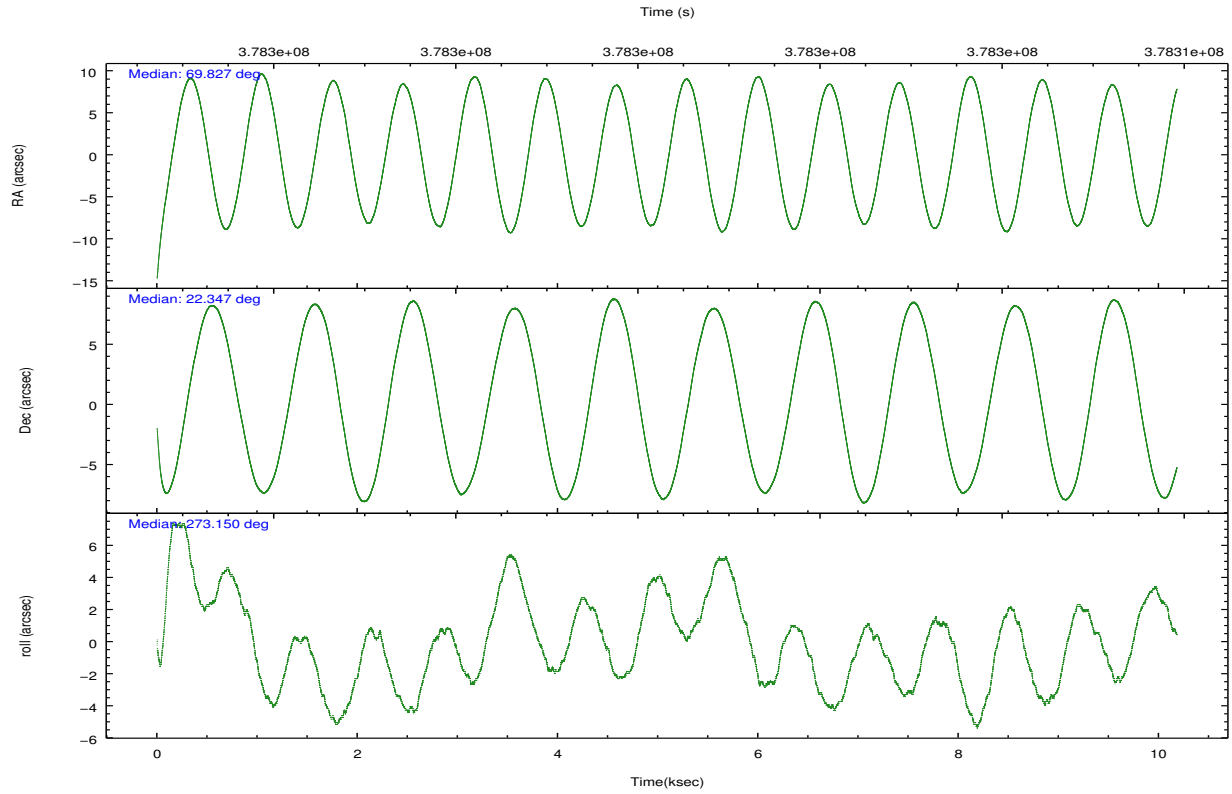
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	30999	27700	56331	28655	31752	37638	grade 0 events	908	852	19641	959	1663	2324
rejected events	28239	25208	22366	25812	17993	29909		2%	3%	34%	3%	5%	6%
rejected %	91%	91%	39%	90%	56%	79%	grade 1 events	7	5	91	11	40	17
								0%	0%	0%	0%	0%	0%
							grade 2 events	655	586	6895	633	3300	1957
								2%	2%	12%	2%	10%	5%
							grade 3 events	464	419	1098	486	1692	953
								1%	1%	1%	1%	5%	2%
							grade 4 events	479	410	1081	462	1532	840
								1%	1%	1%	1%	4%	2%
							grade 5 events	963	1051	3310	1080	3278	1603
								3%	3%	5%	3%	10%	4%
							grade 6 events	575	527	9158	634	6994	2437
								1%	1%	16%	2%	22%	6%
							grade 7 events	26948	23850	15057	24390	13253	27507
								86%	86%	26%	85%	41%	73%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	69.810655	69.82716167700551	CCD I2 on	O1	Y
[deg] Pointing Dec	22.369671	22.34696168870912	CCD I3 on	O2	Y
[deg] Pointing Roll	273.005138	273.1554851354556	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	Y	Y
[s] Observation start time (MET)	378295417.184000	378294057.29162	CCD S5 on	N	N
Observation start date	2009-12-27T10:02:31	2009-12-27T09:40:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	378305417.184000	378305682.84221	On-chip summing requested	N	N
Observation end date	2009-12-27T12:49:11	2009-12-27T12:54:42	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.1

2.3 Aspect



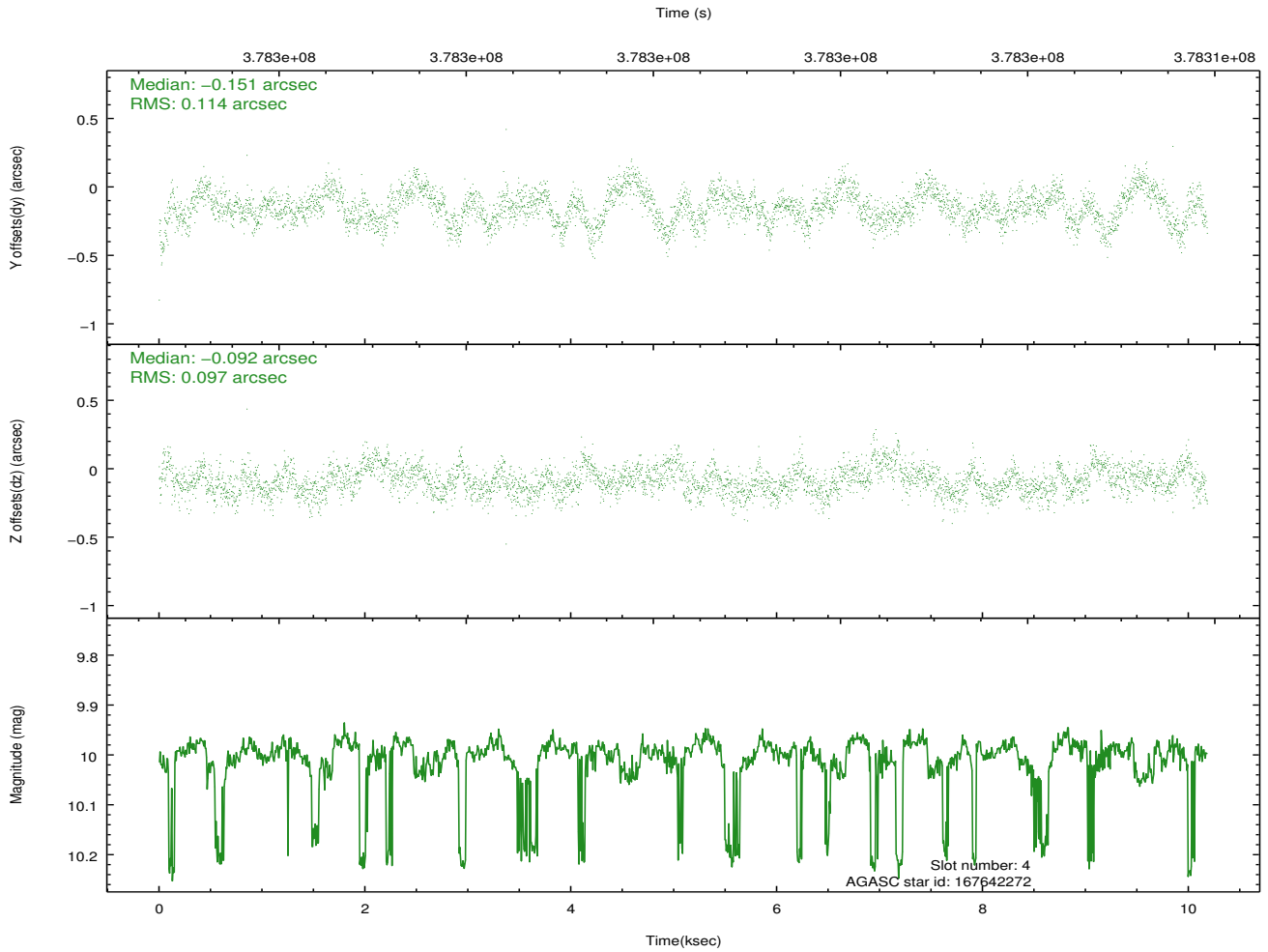
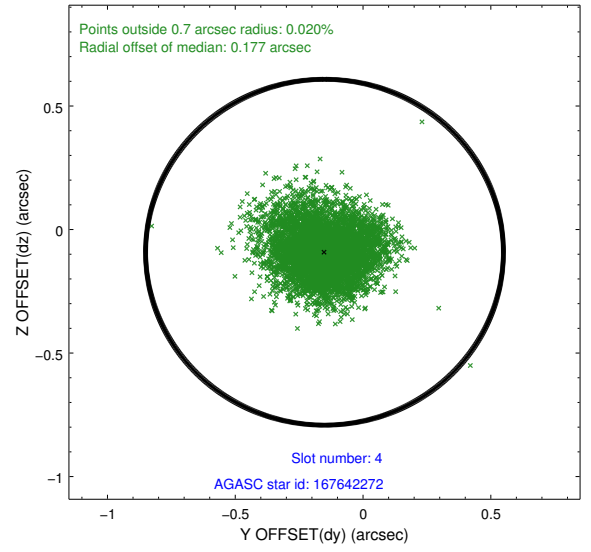
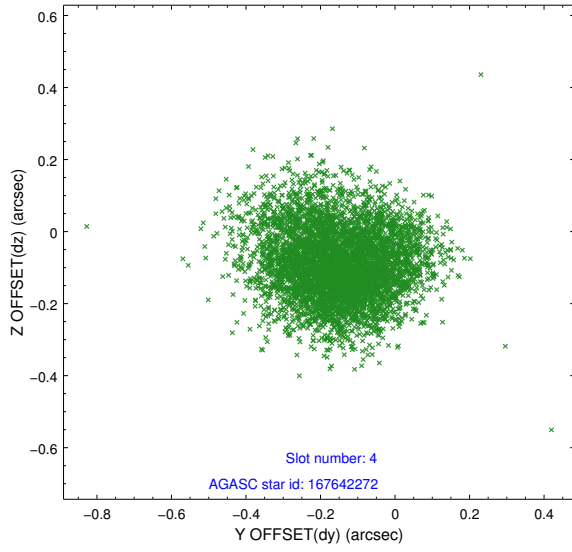


Slot Statistics

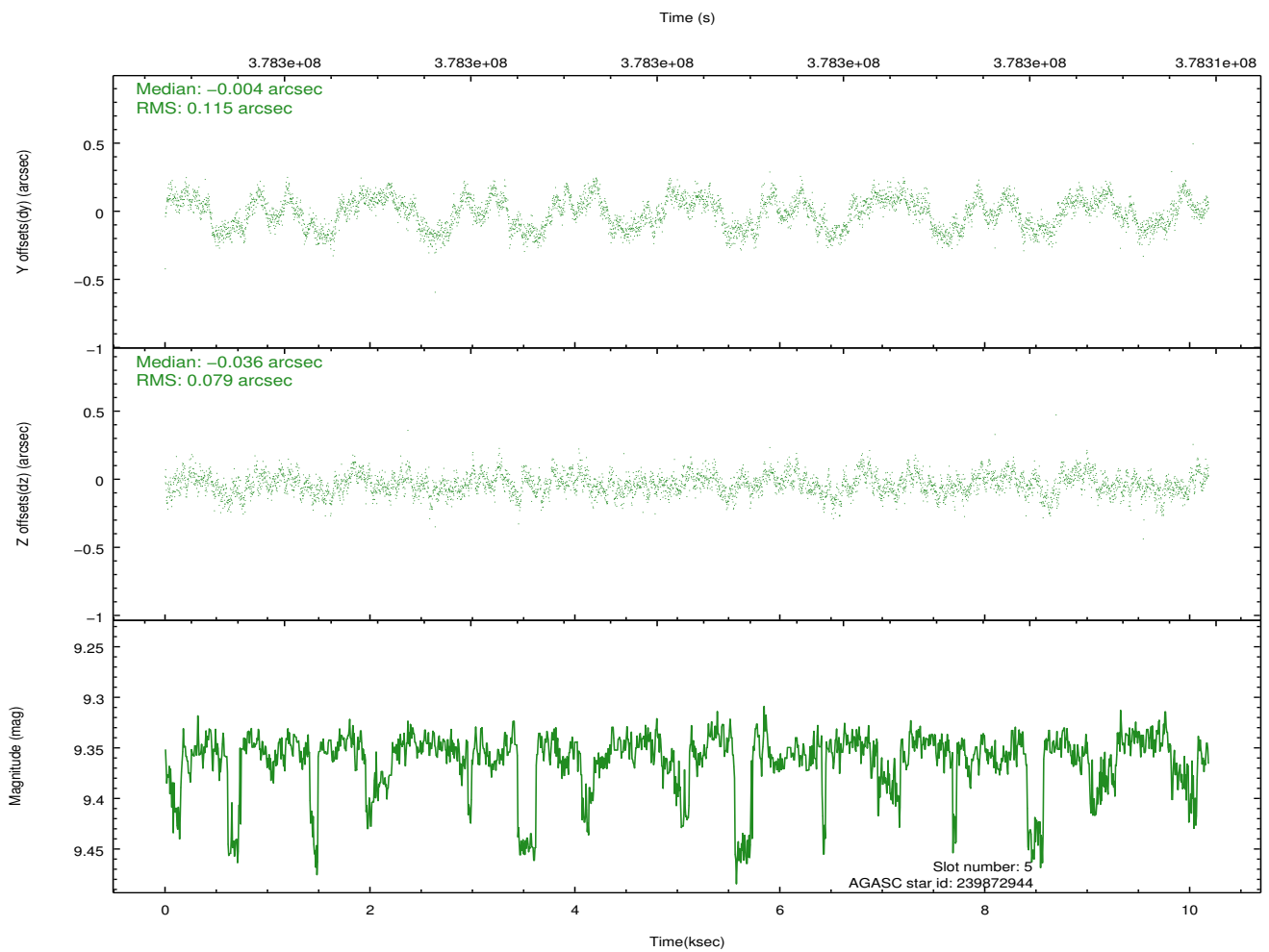
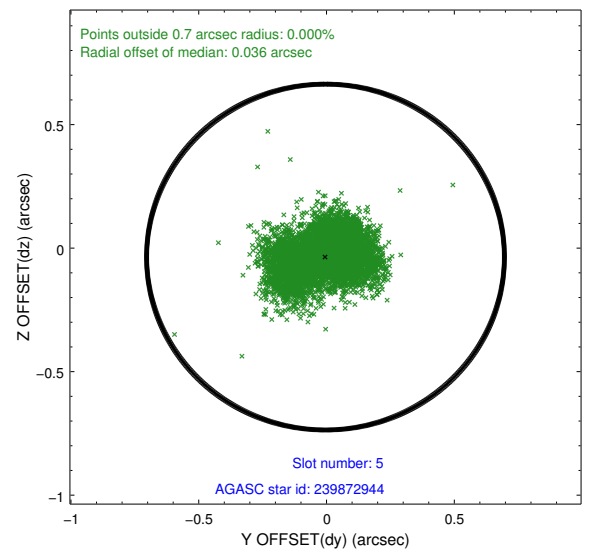
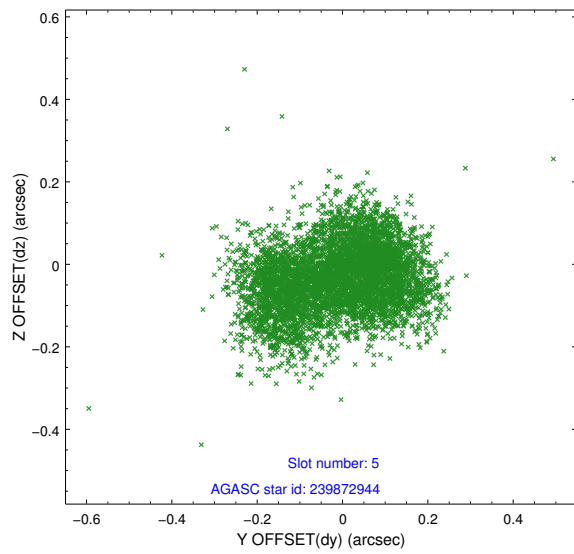
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	2484	-0.099	-0.014	0.006	0.011	0.000000	0.000000	-768.99	-1736.66
1	FID	ACIS-S-4	7.01	2484	0.180	0.052	0.006	0.010	0.000000	0.000000	2144.31	171.39
2	FID	ACIS-S-5	7.03	2484	-0.112	-0.029	0.006	0.011	0.000000	0.000000	-1821.20	165.52
3	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	167642272	10.00	4899	-0.151	-0.092	0.161	0.256	70.363038	22.199201	705.91	1806.84
5	GUIDE	239872944	9.36	4932	-0.004	-0.036	0.151	0.228	70.427590	22.623279	-807.39	2096.42
6	GUIDE	167515856	9.09	4951	0.136	-0.051	0.100	0.161	69.344769	21.679596	2397.40	-1685.69
7	GUIDE	239871024	9.69	4956	0.030	0.174	0.136	0.213	69.501685	22.990064	-2283.99	-905.50

2.4 Star Slots

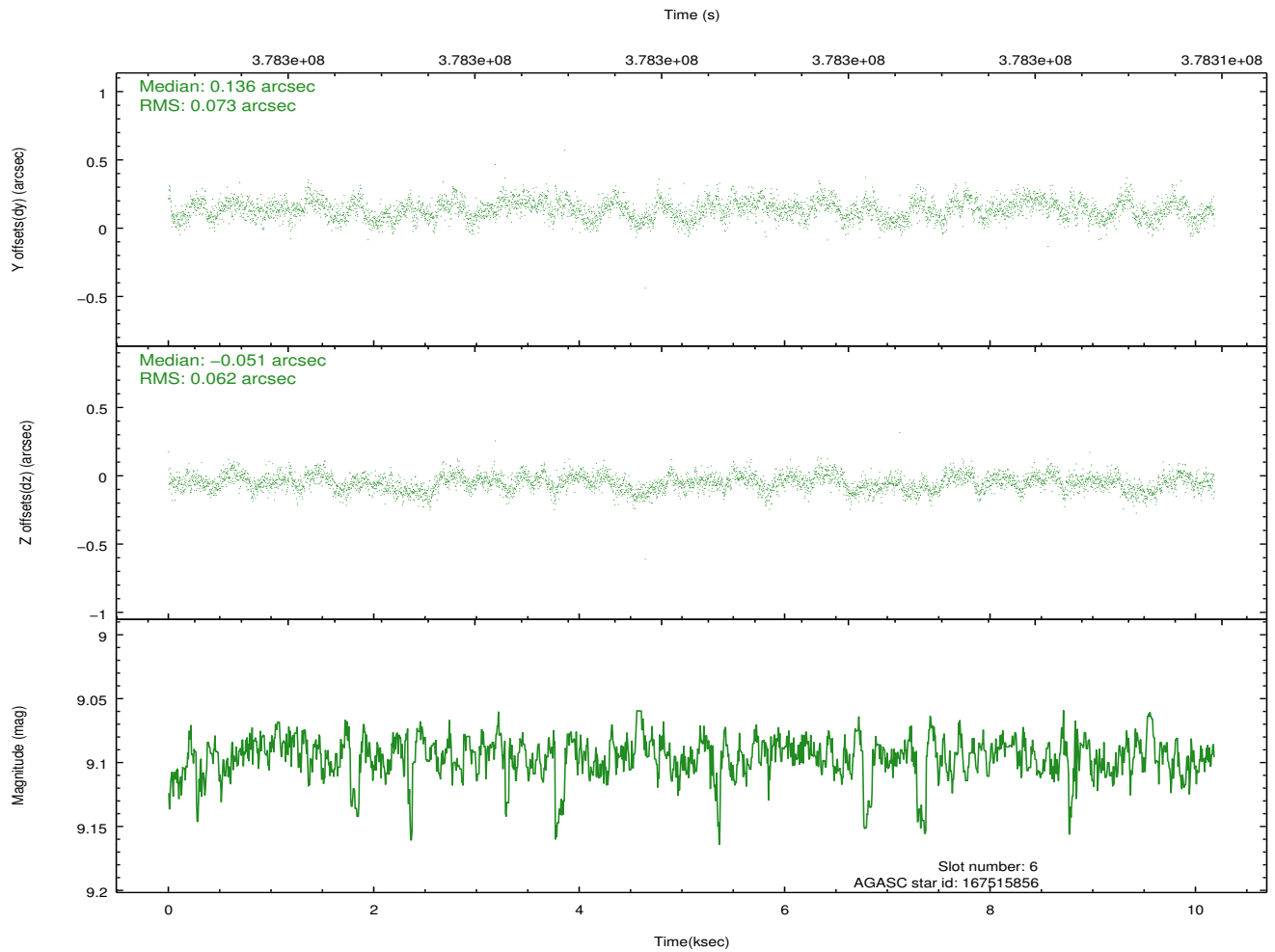
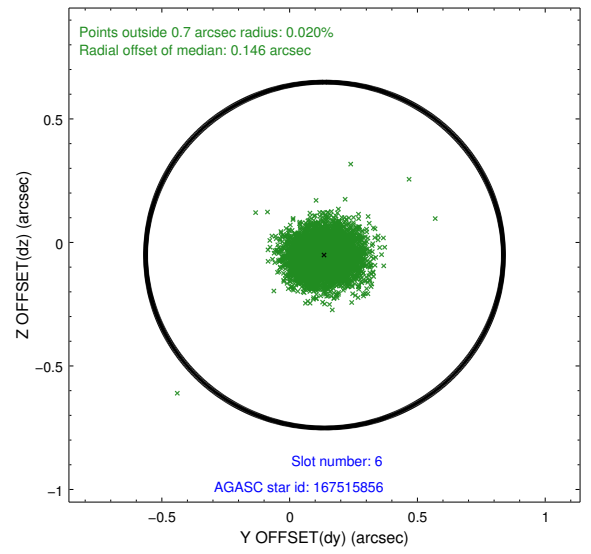
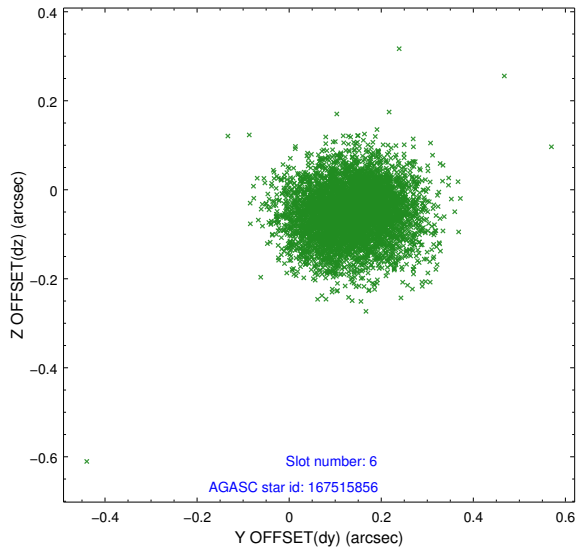
2.4.1 Slot 4



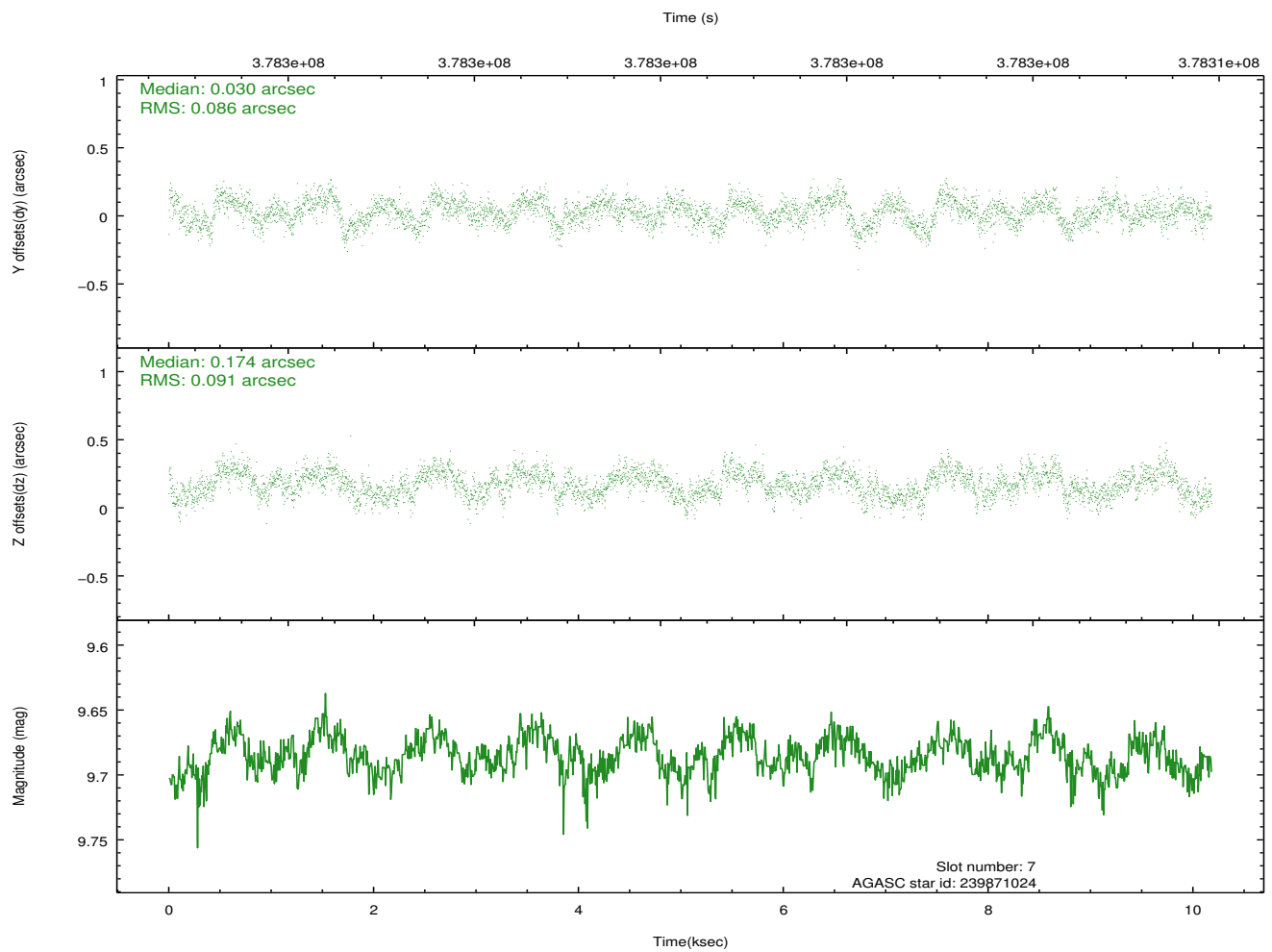
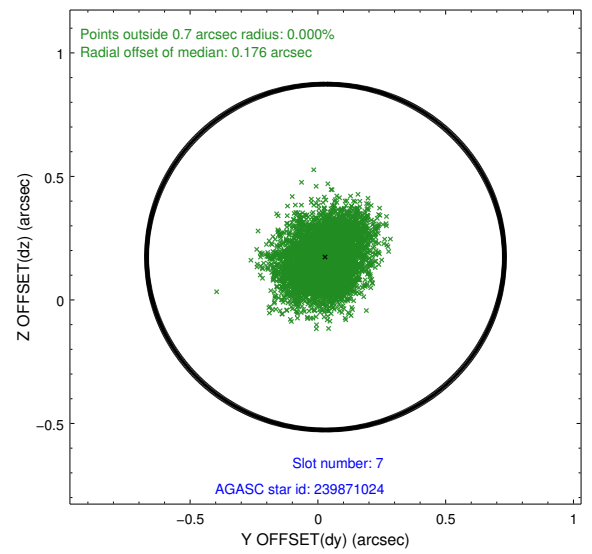
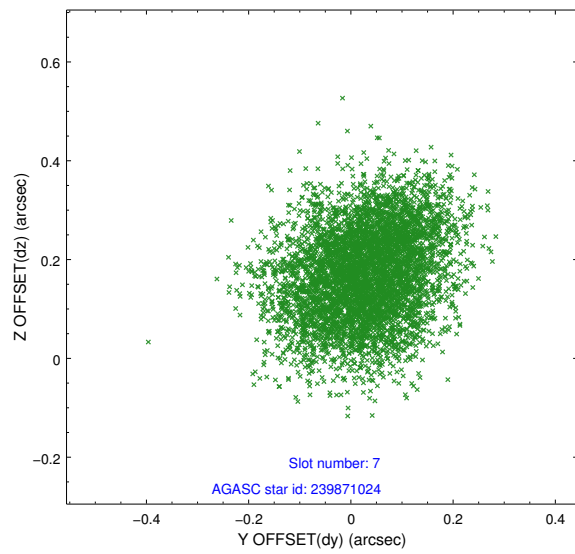
2.4.2 Slot 5



2.4.3 Slot 6

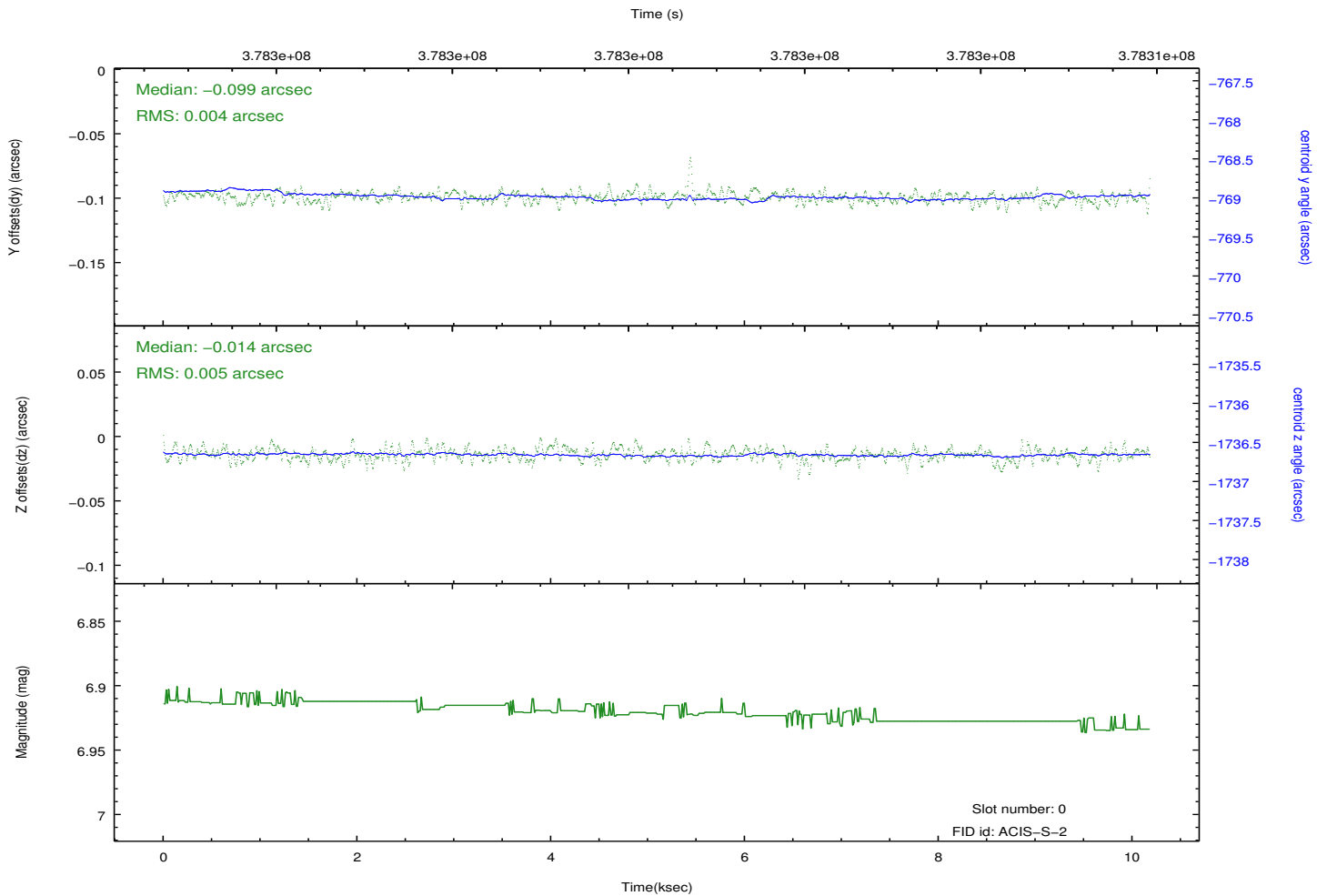
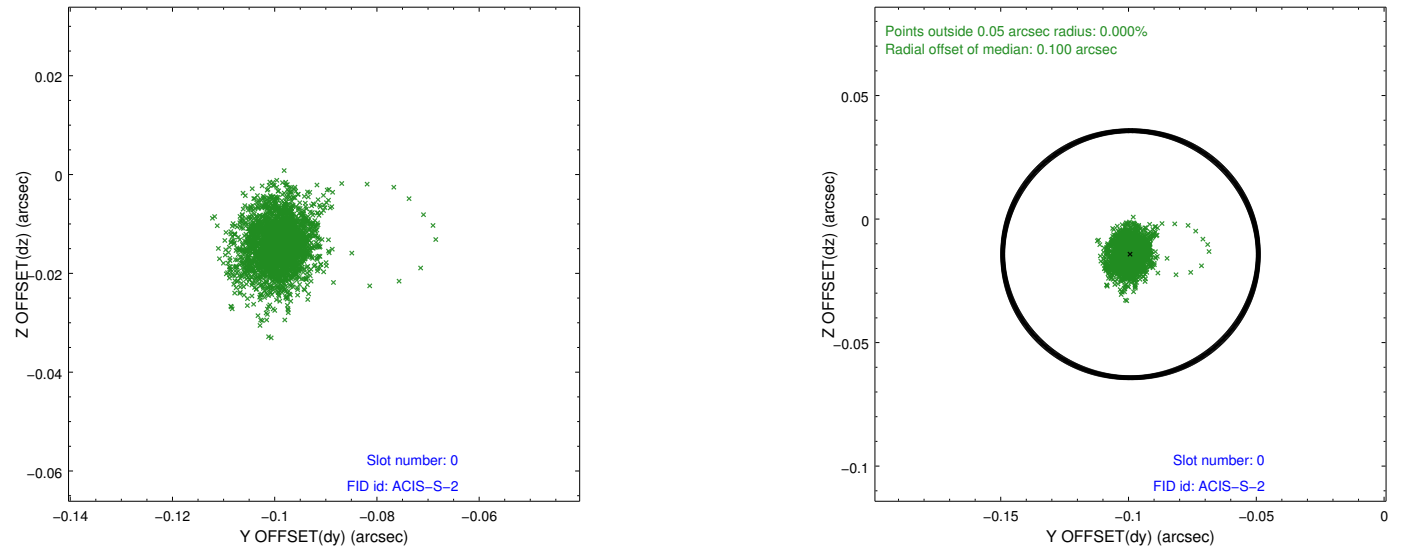


2.4.4 Slot 7

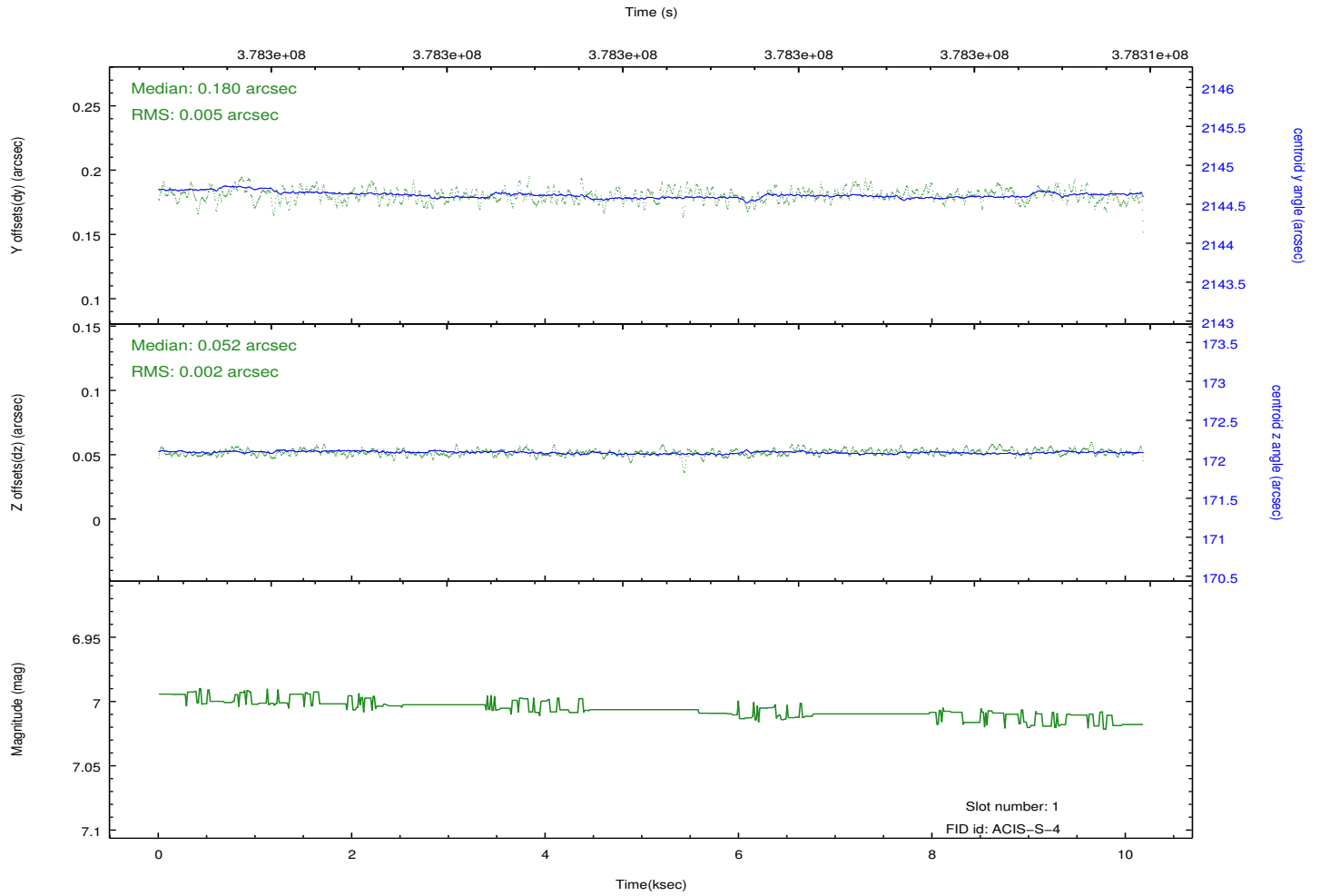
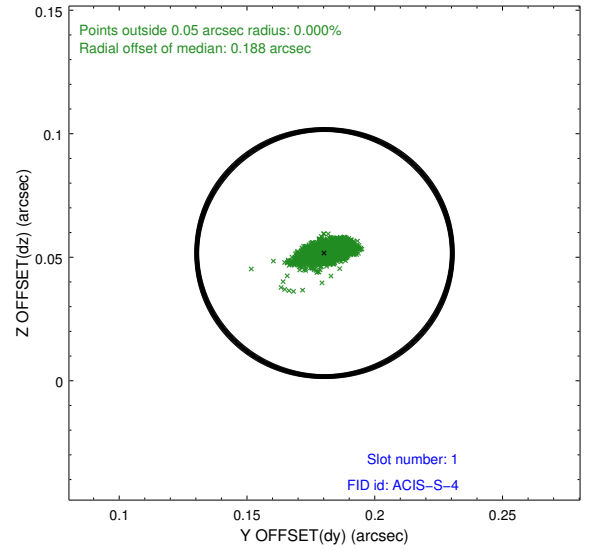
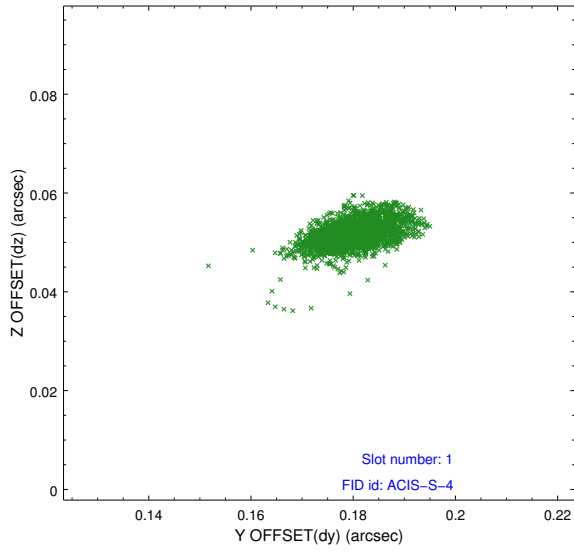


2.5 FID Slots

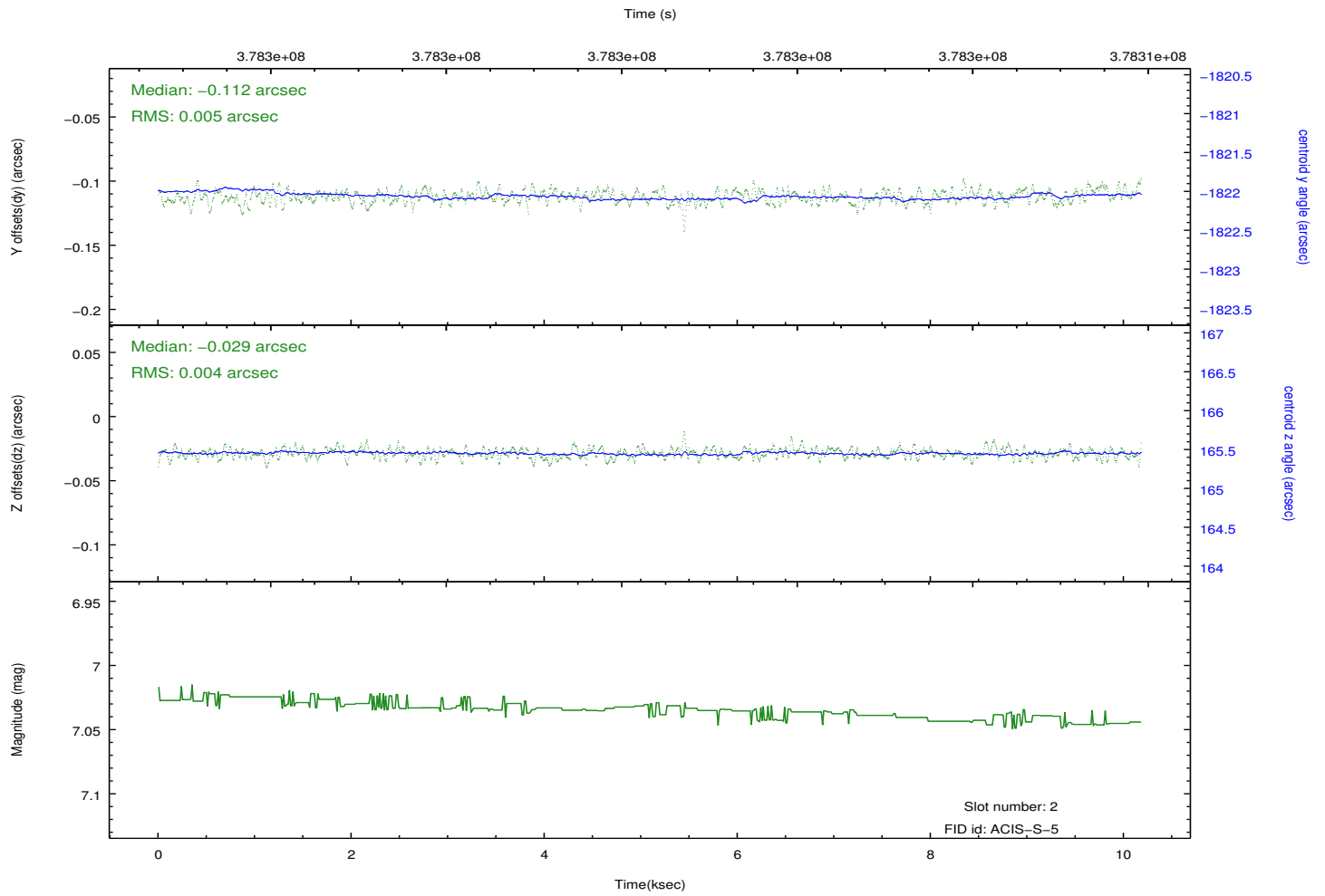
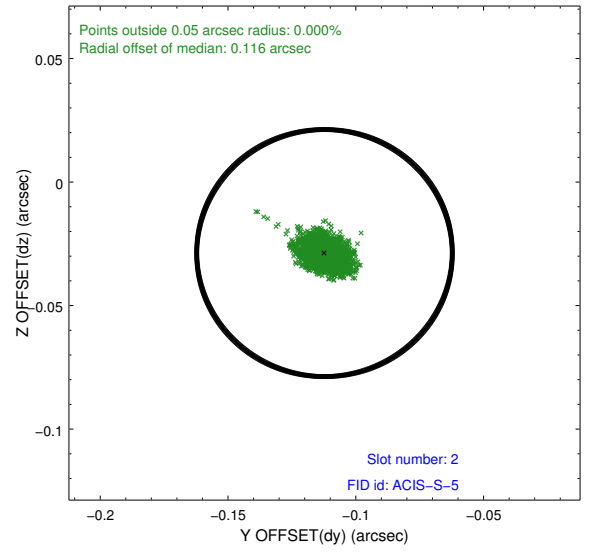
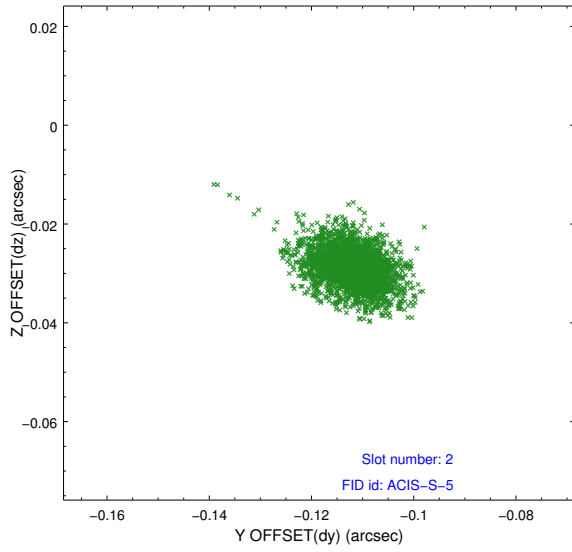
2.5.1 Slot 0



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)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.179400220633

A.2 Comments

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.