

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13765 - L2 Version 2
Chandra X-Ray Center

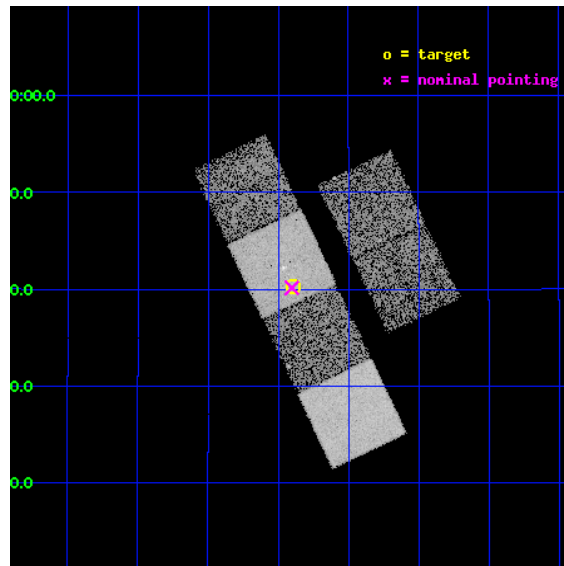
L2 Processing Date : Apr 12 2012

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1 Front

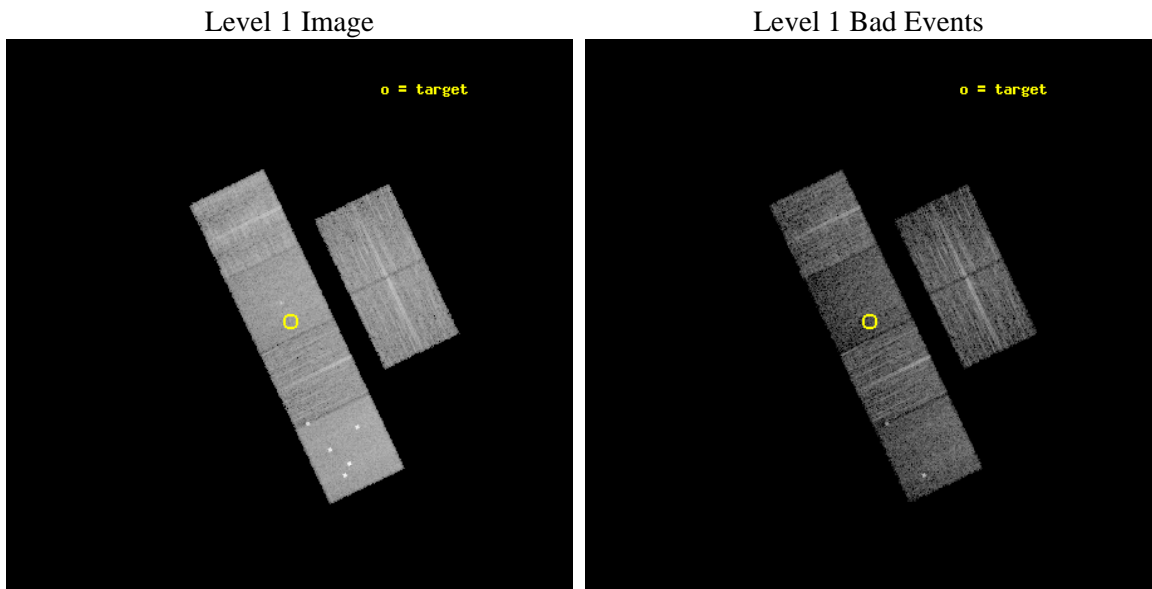
seq_num	501598	Sequence number
obs_id	13765	Observation id
title	Chandra Observations of New X-ray Supernovae	Proposal title
observer	Dr. David Pooley	Principal investigator
object	SN 2012aw	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	160.974	Observer's specified target RA [deg]
dec_targ	11.671639	Observer's specified target Dec [deg]
ra_nom	160.97564393524	Nominal RA [deg]
dec_nom	11.669139951533	Nominal Dec [deg]
roll_nom	244.51594654063	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9964.7999629378	Sum of GTIs [s]
livetime	9838.6196657249	Livetime [s]
ontime2	9964.7999629378	Sum of GTIs [s]
ontime3	9964.7999629378	Sum of GTIs [s]
ontime5	9964.7999629378	Sum of GTIs [s]
ontime6	9964.7999629378	Sum of GTIs [s]
ontime7	9964.7999629378	Sum of GTIs [s]
ontime8	9964.7999629378	Sum of GTIs [s]
l2events	86137	Number of level 2 events



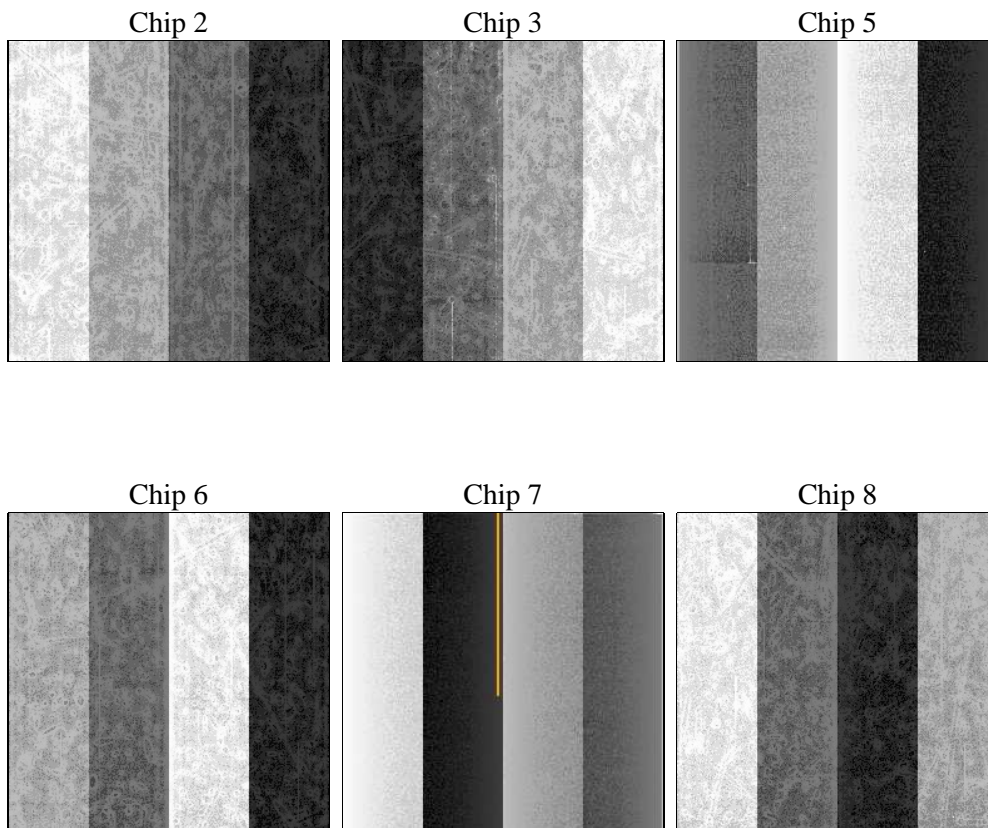
2 OBI

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	8.4.3	Processing system revision	ontime	9964.7999629378	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	9964.7999629378	Sum of GTIs [s]
date	2012-04-12T14:50:16	Date and time of file creation	ontime3	9964.7999629378	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	9964.7999629378	Sum of GTIs [s]
			ontime6	9964.7999629378	Sum of GTIs [s]
			ontime7	9964.7999629378	Sum of GTIs [s]
			ontime8	9964.7999629378	Sum of GTIs [s]
			l1events	365901	Number of level 1 events

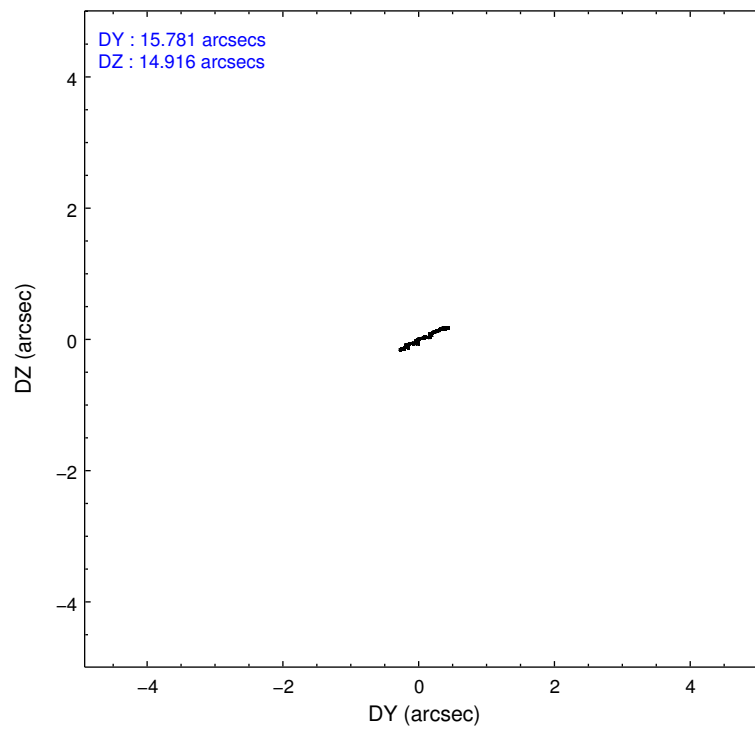
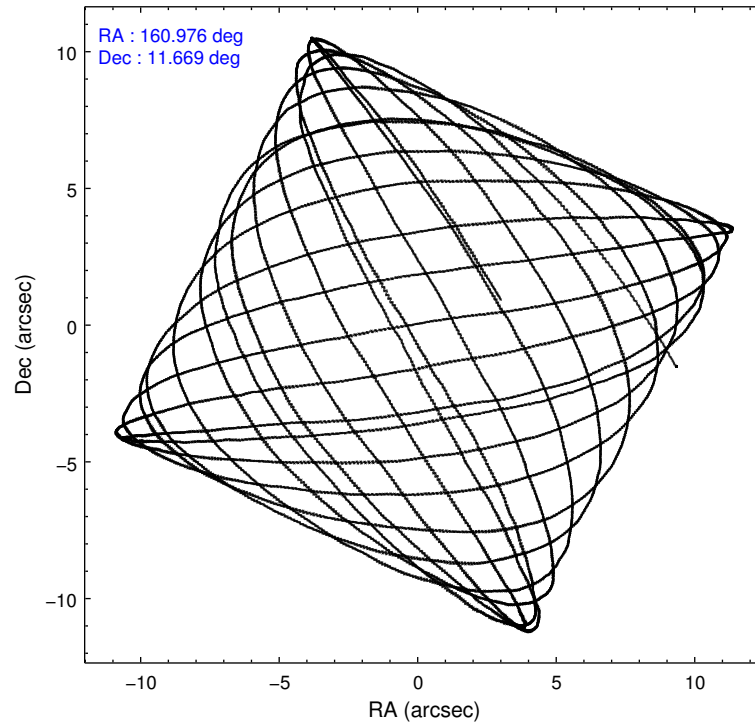
2.1.4 Events

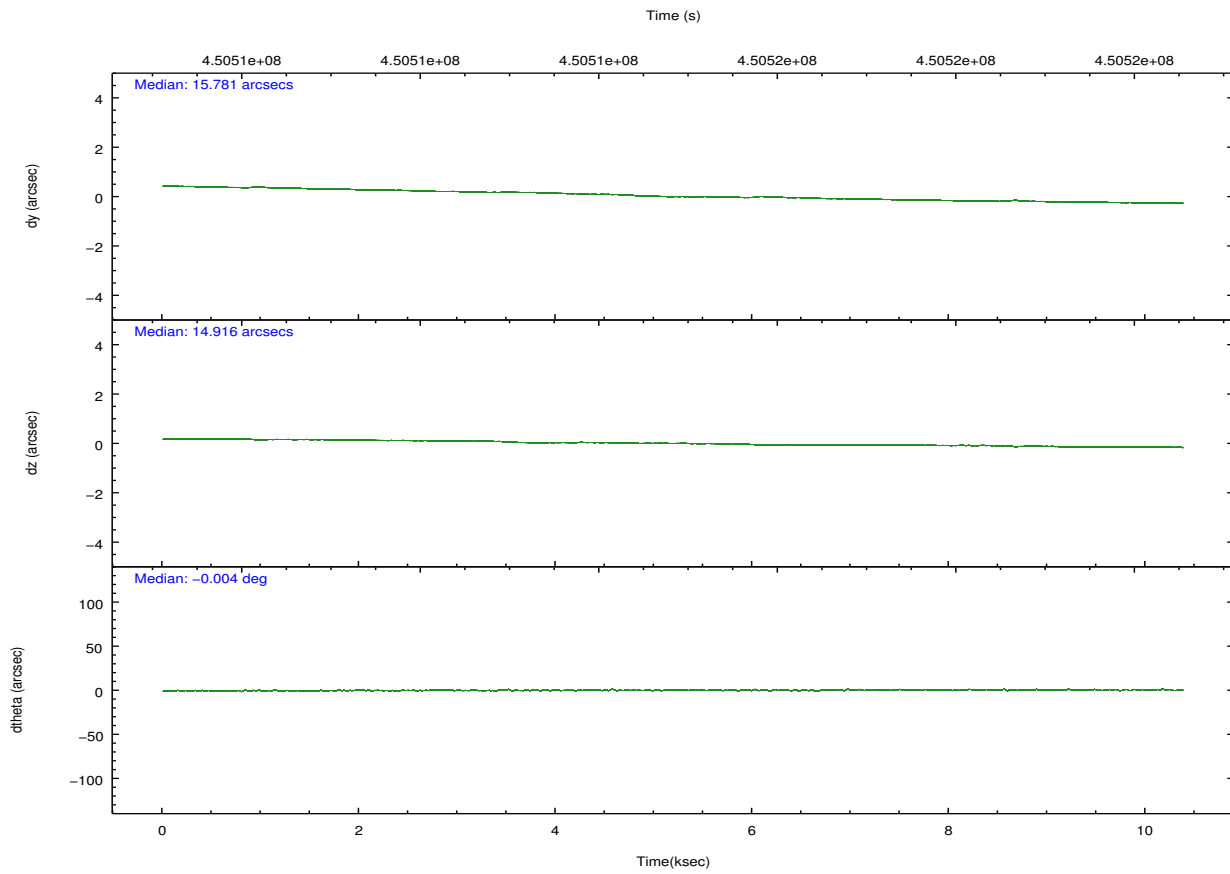
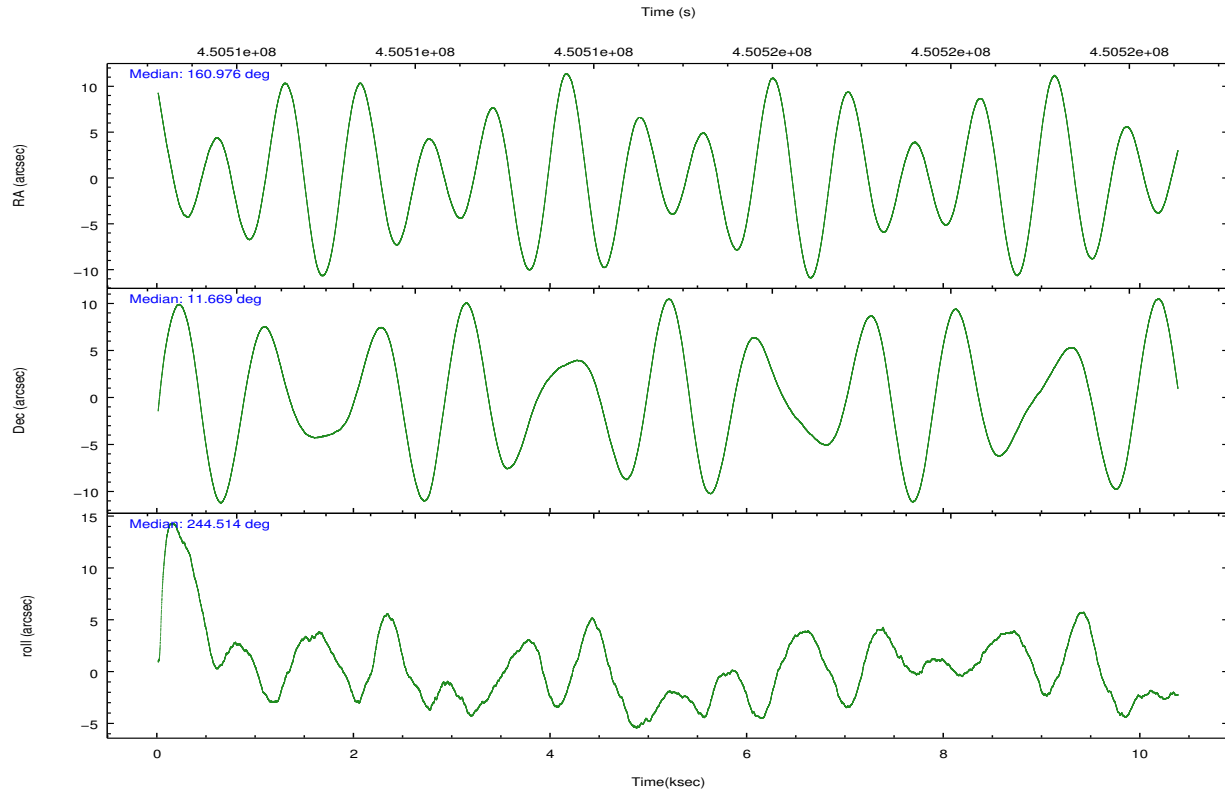
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51773	49072	84668	51471	59878	69039	grade 0 events	2176	1989	9158	2165	2827	5842
rejected events	45772	43473	38285	45418	31174	48745		4%	4%	10%	4%	4%	8%
rejected %	88%	88%	45%	88%	52%	70%	grade 1 events	29	27	335	28	94	70
								0%	0%	0%	0%	0%	0%
							grade 2 events	1495	1281	13455	1357	6143	4549
								2%	2%	15%	2%	10%	6%
							grade 3 events	586	623	1503	612	2583	2367
								1%	1%	1%	1%	4%	3%
							grade 4 events	603	620	1478	589	2518	2221
								1%	1%	1%	1%	4%	3%
							grade 5 events	2002	2262	6219	2200	6301	3435
								3%	4%	7%	4%	10%	4%
							grade 6 events	1144	1088	20799	1333	14641	5321
								2%	2%	24%	2%	24%	7%
							grade 7 events	43738	41182	31721	43187	24771	45234
								84%	83%	37%	83%	41%	65%

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	160.973059	160.9756439352408	CCD I2 on	O1	Y
[deg] Pointing Dec	11.696297	11.66913995153294	CCD I3 on	O2	Y
[deg] Pointing Roll	244.359851	244.515946540628	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)	450510020.184000	450508962.52139	CCD S5 on	N	N
Observation start date	2012-04-11T05:39:14	2012-04-11T05:22:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	450520020.184000	450520783.84701	On-chip summing requested	N	N
Observation end date	2012-04-11T08:25:54	2012-04-11T08:39:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



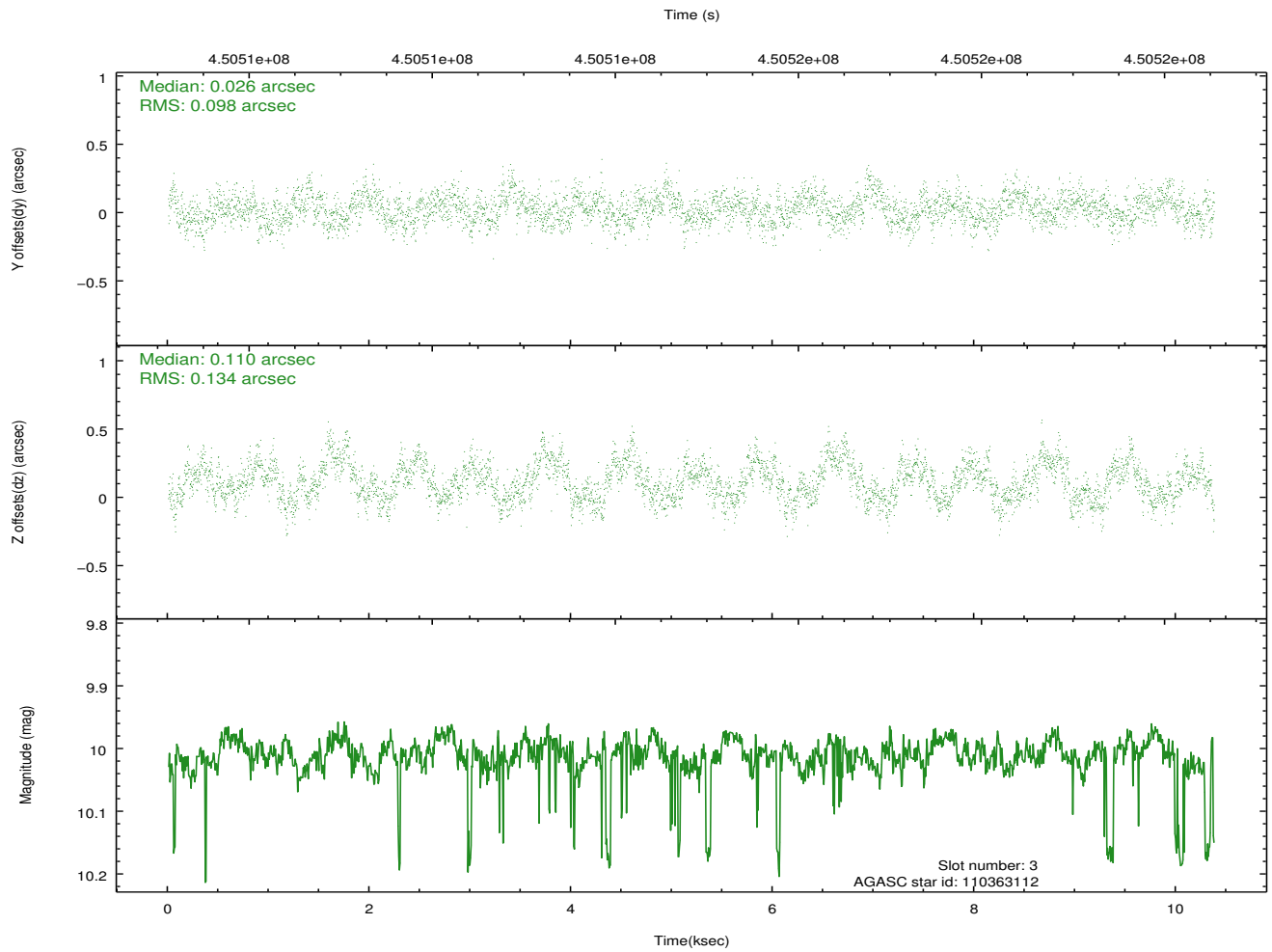
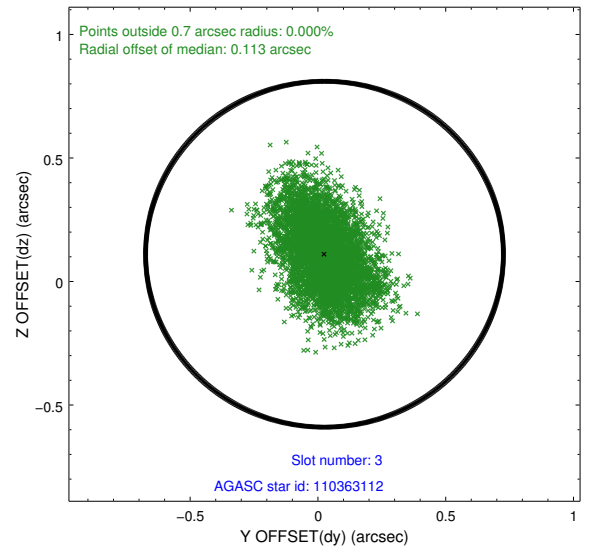
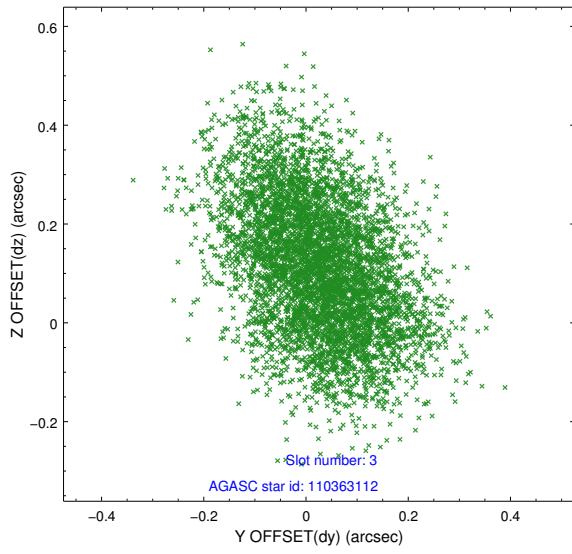


Slot Statistics

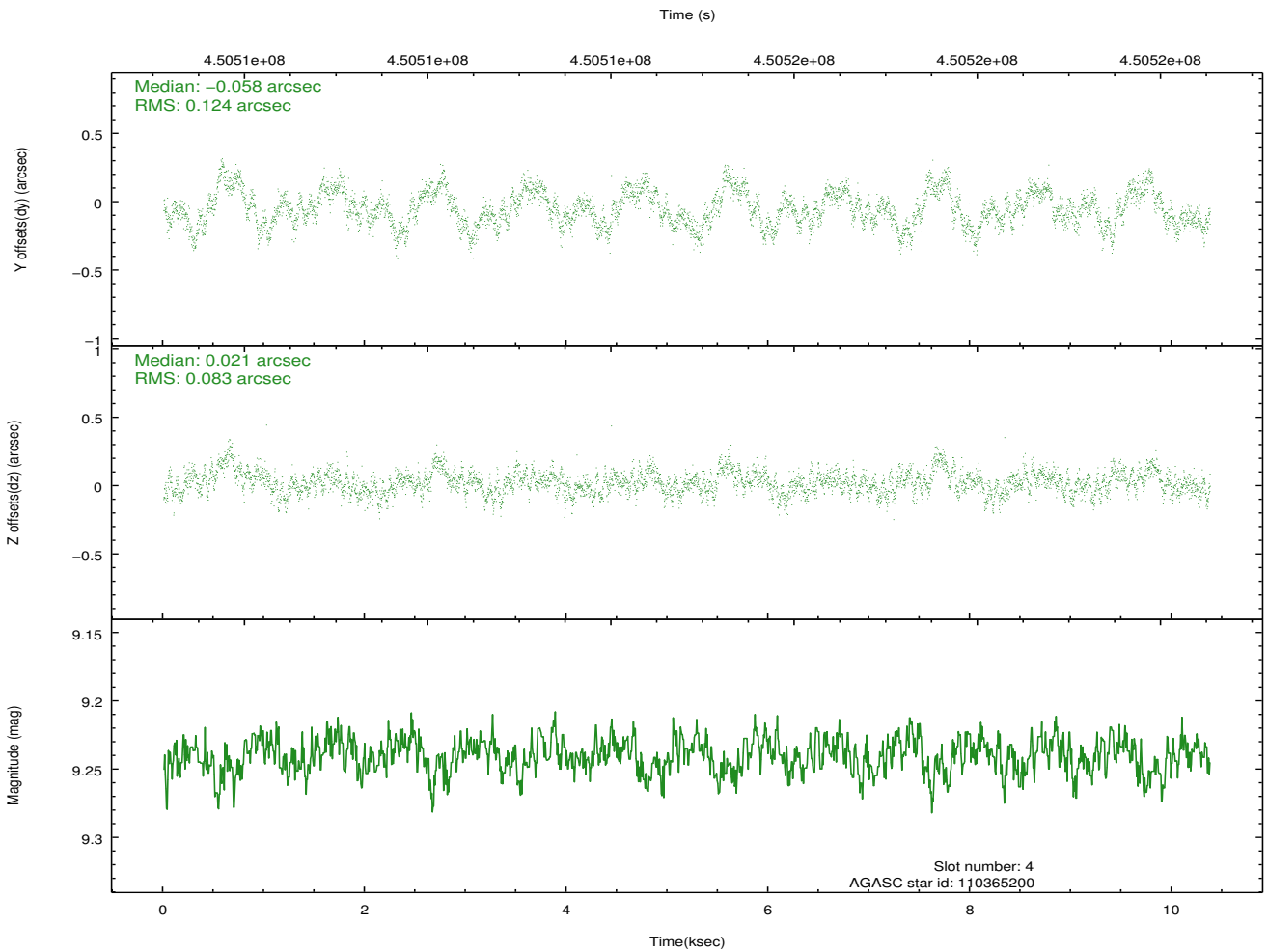
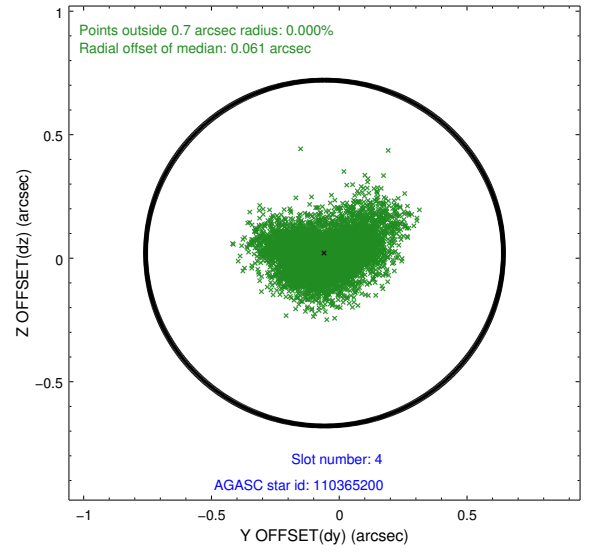
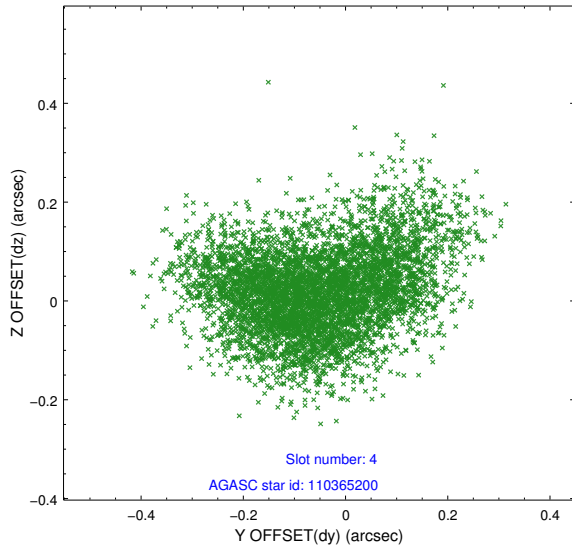
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	2531	-0.132	-0.015	0.009	0.020	0.000000	0.000000	-768.95	-1736.31
1	FID	ACIS-S-4	7.03	2531	0.237	0.067	0.009	0.019	0.000000	0.000000	2144.46	171.73
2	FID	ACIS-S-5	7.06	2531	-0.136	-0.044	0.009	0.018	0.000000	0.000000	-1821.15	165.86
3	GUIDE	110363112	10.01	5035	0.026	0.110	0.177	0.289	160.492613	11.398369	1700.20	-1064.57
4	GUIDE	110365200	9.24	5059	-0.058	0.021	0.158	0.262	160.778767	12.493533	-2290.83	-1858.10
5	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	111281680	10.19	5037	0.077	-0.047	0.258	0.404	161.020105	11.200959	1536.24	921.28
7	GUIDE	110363240	8.14	5061	-0.045	-0.096	0.073	0.129	160.564767	12.418075	-1721.08	-2418.72

2.4 Star Slots

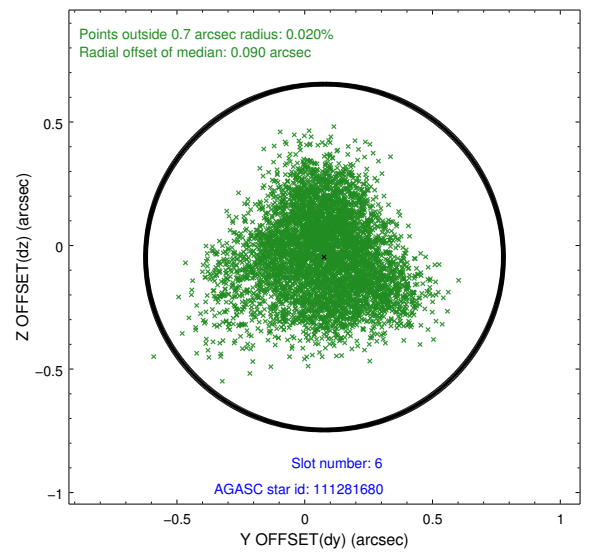
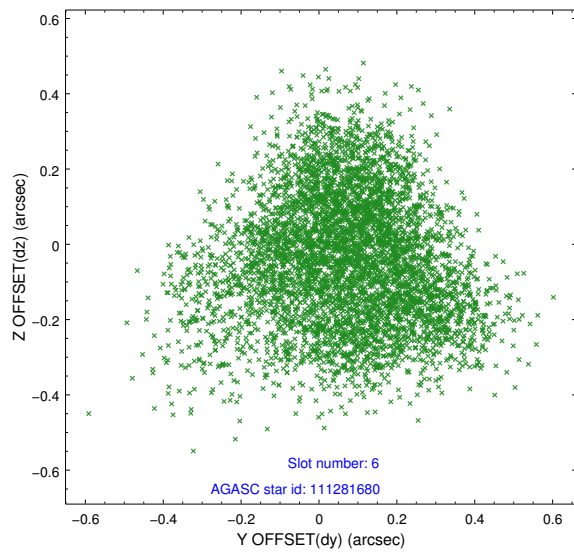
2.4.1 Slot 3



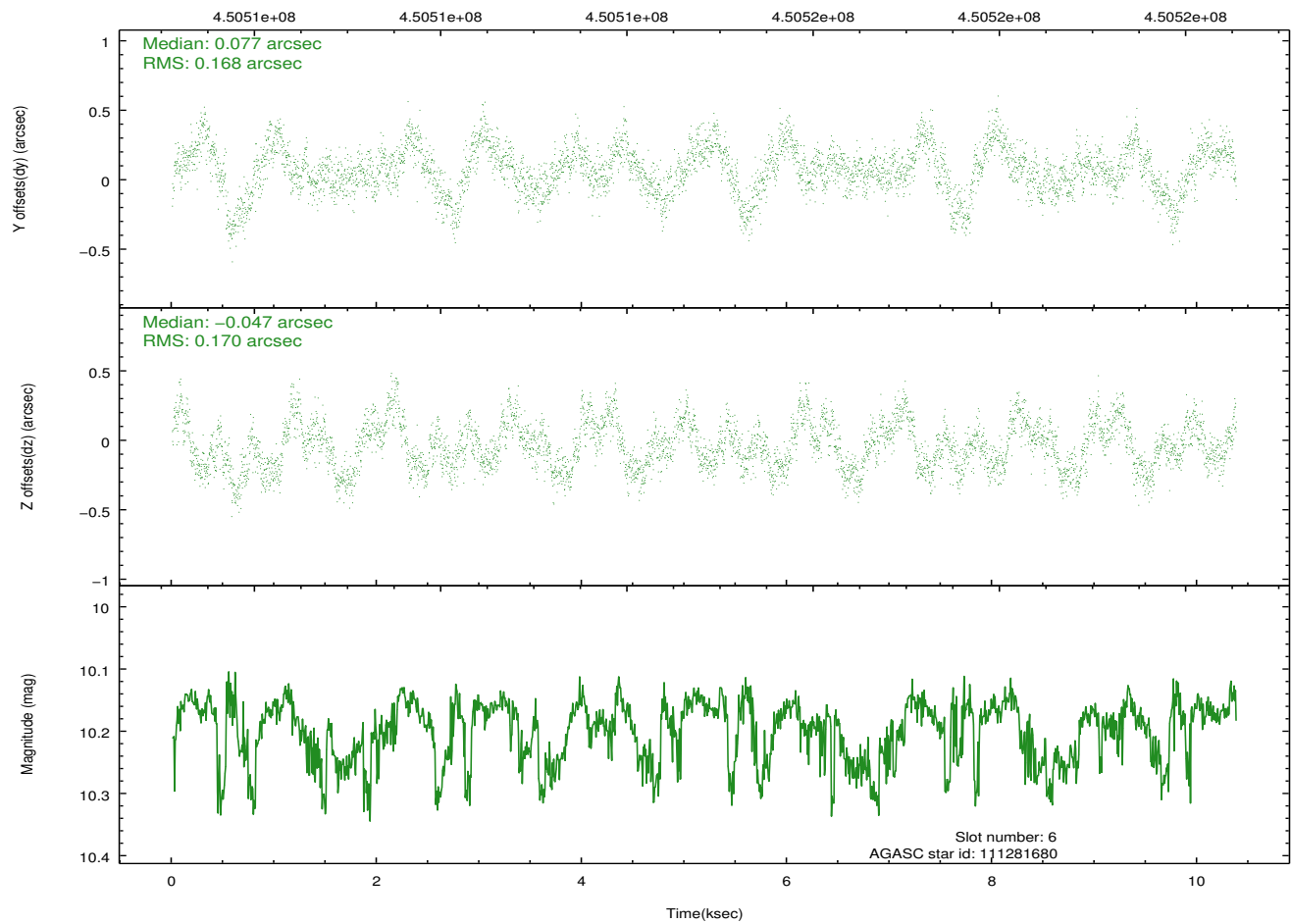
2.4.2 Slot 4



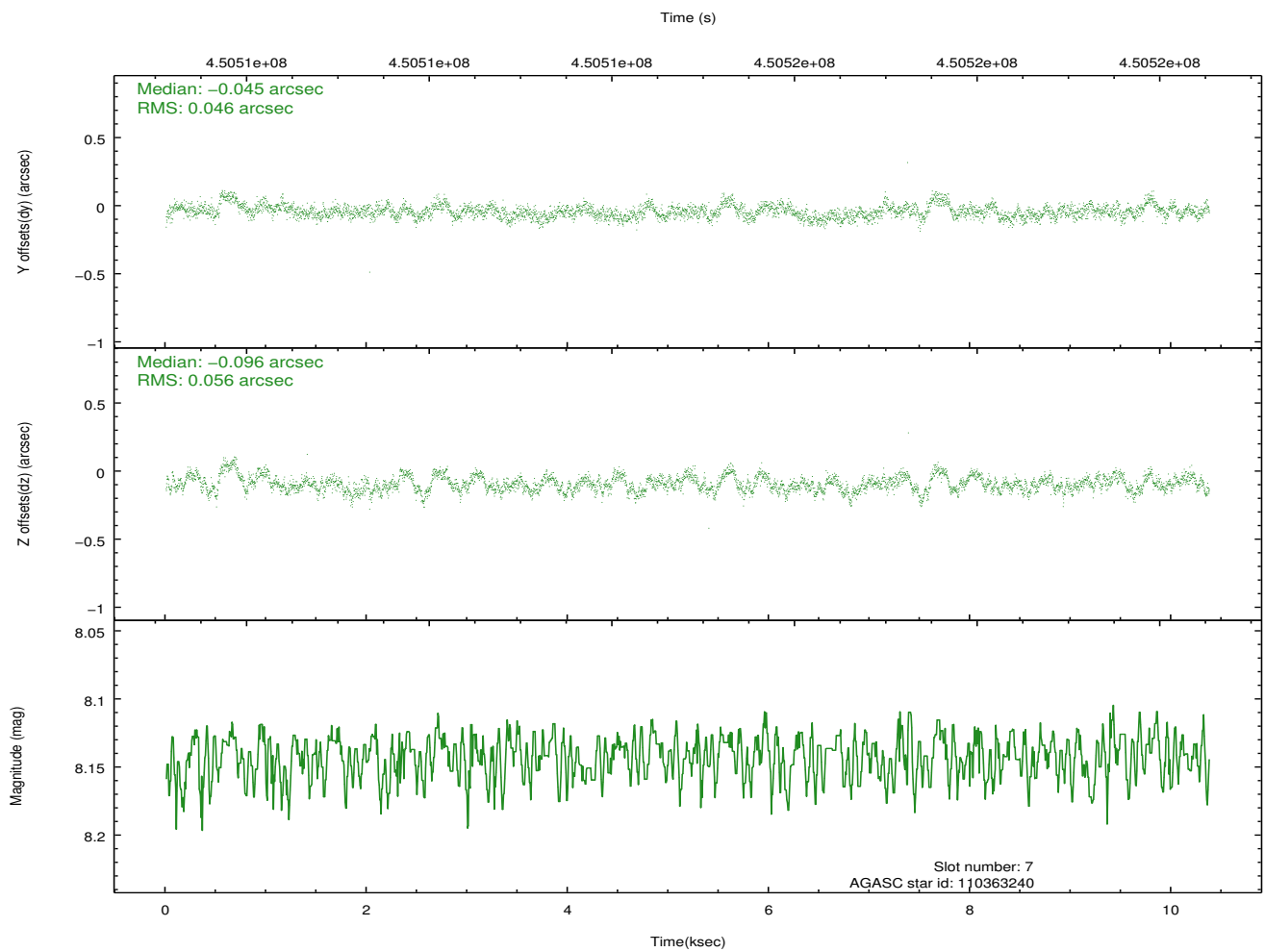
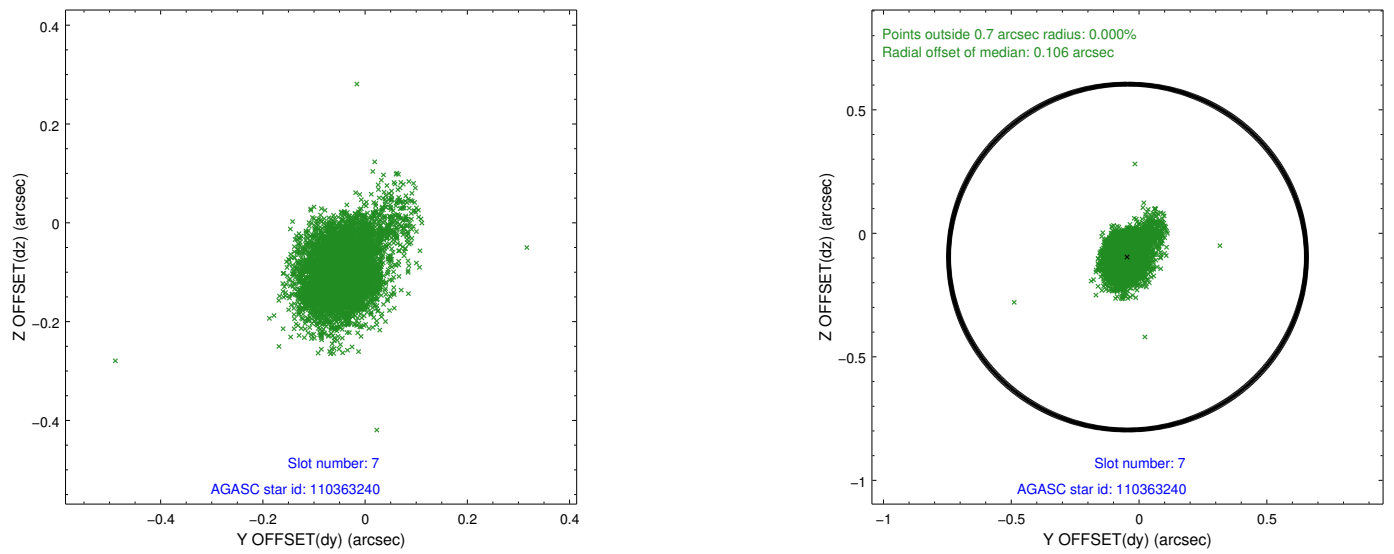
2.4.3 Slot 6



Time (s)

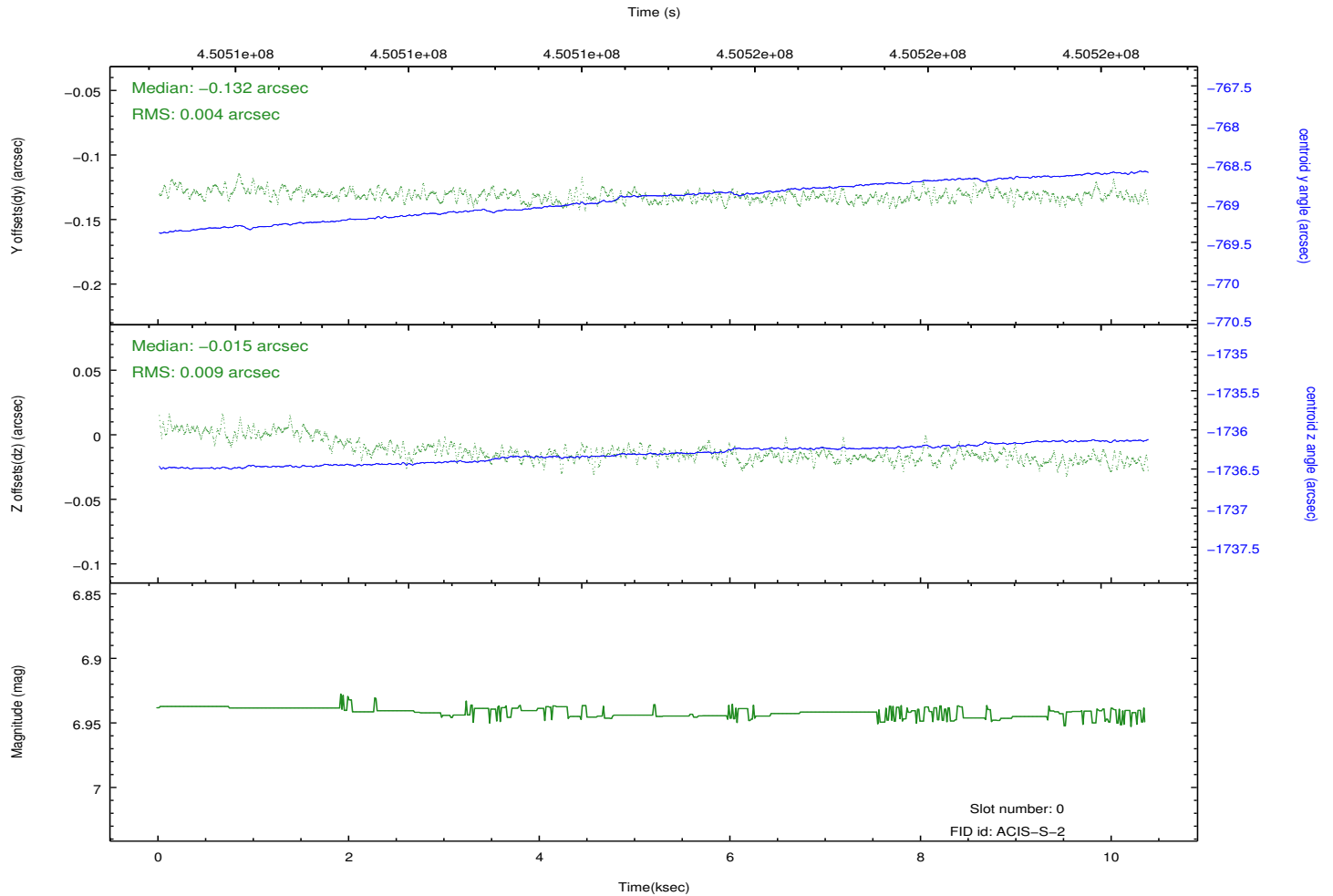
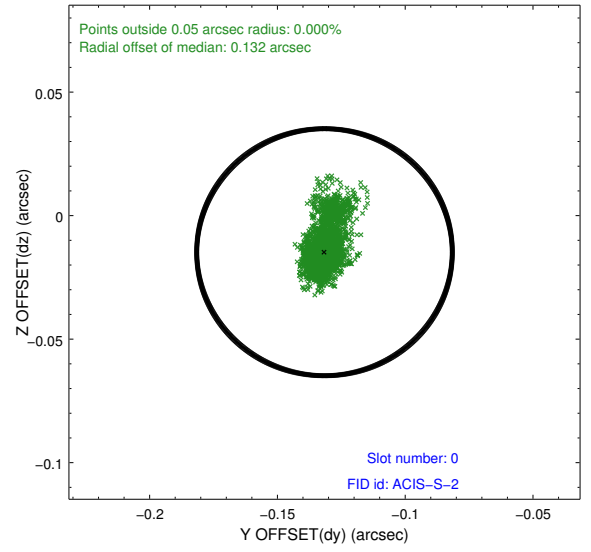
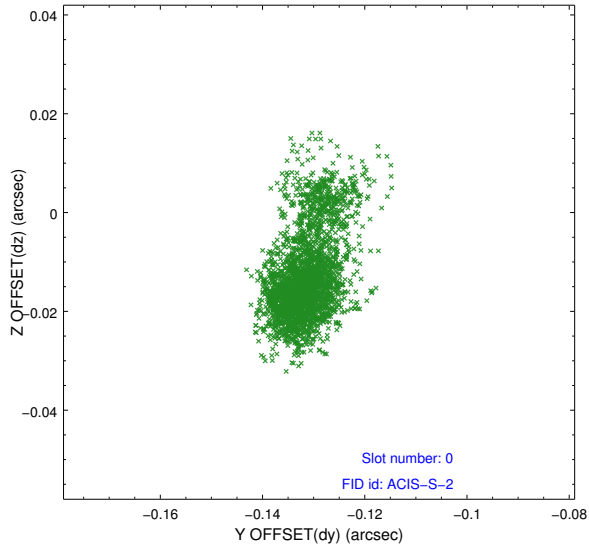


2.4.4 Slot 7

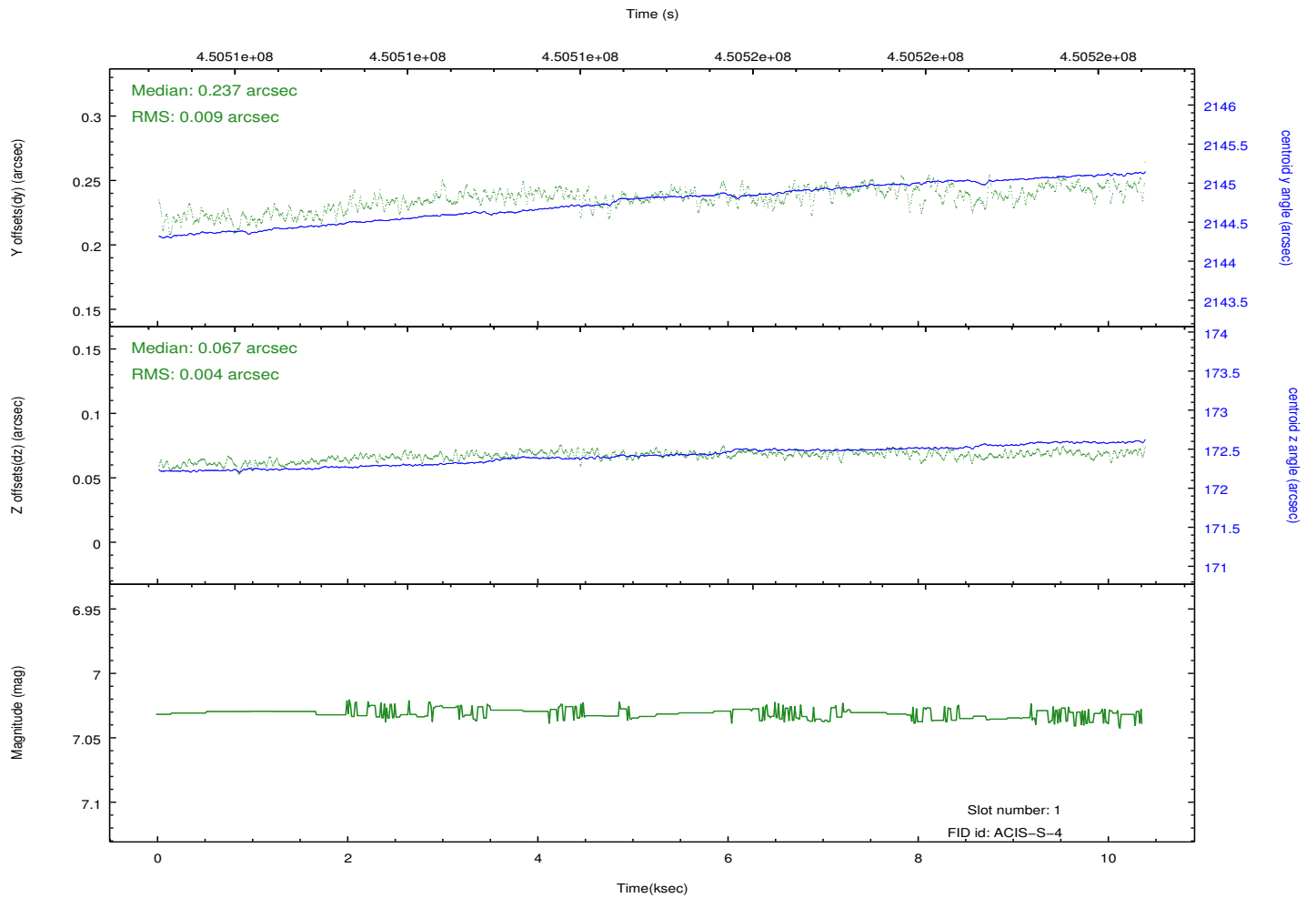
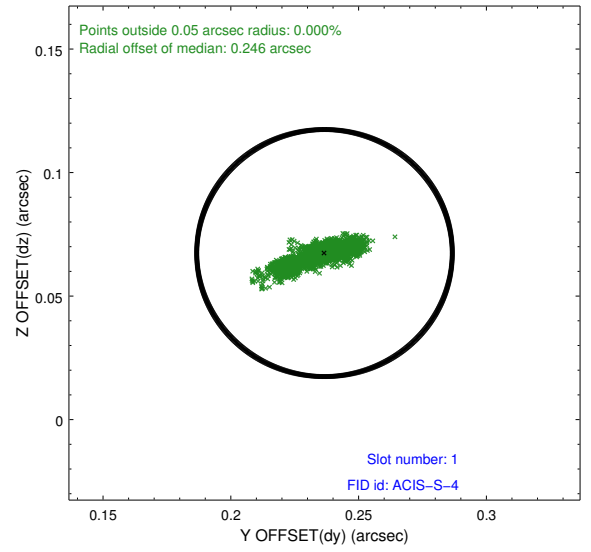
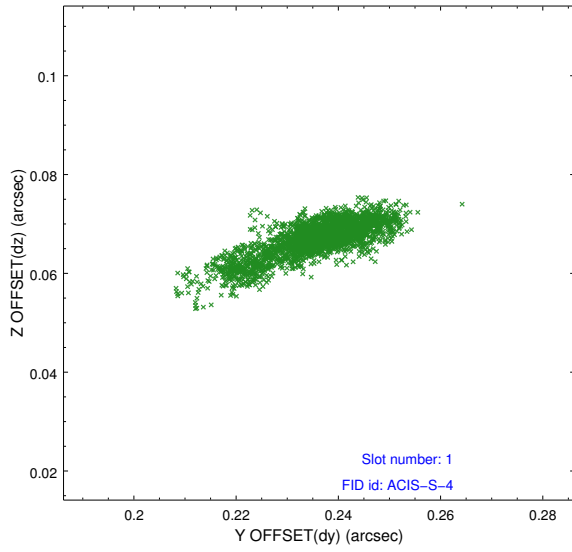


2.5 FID Slots

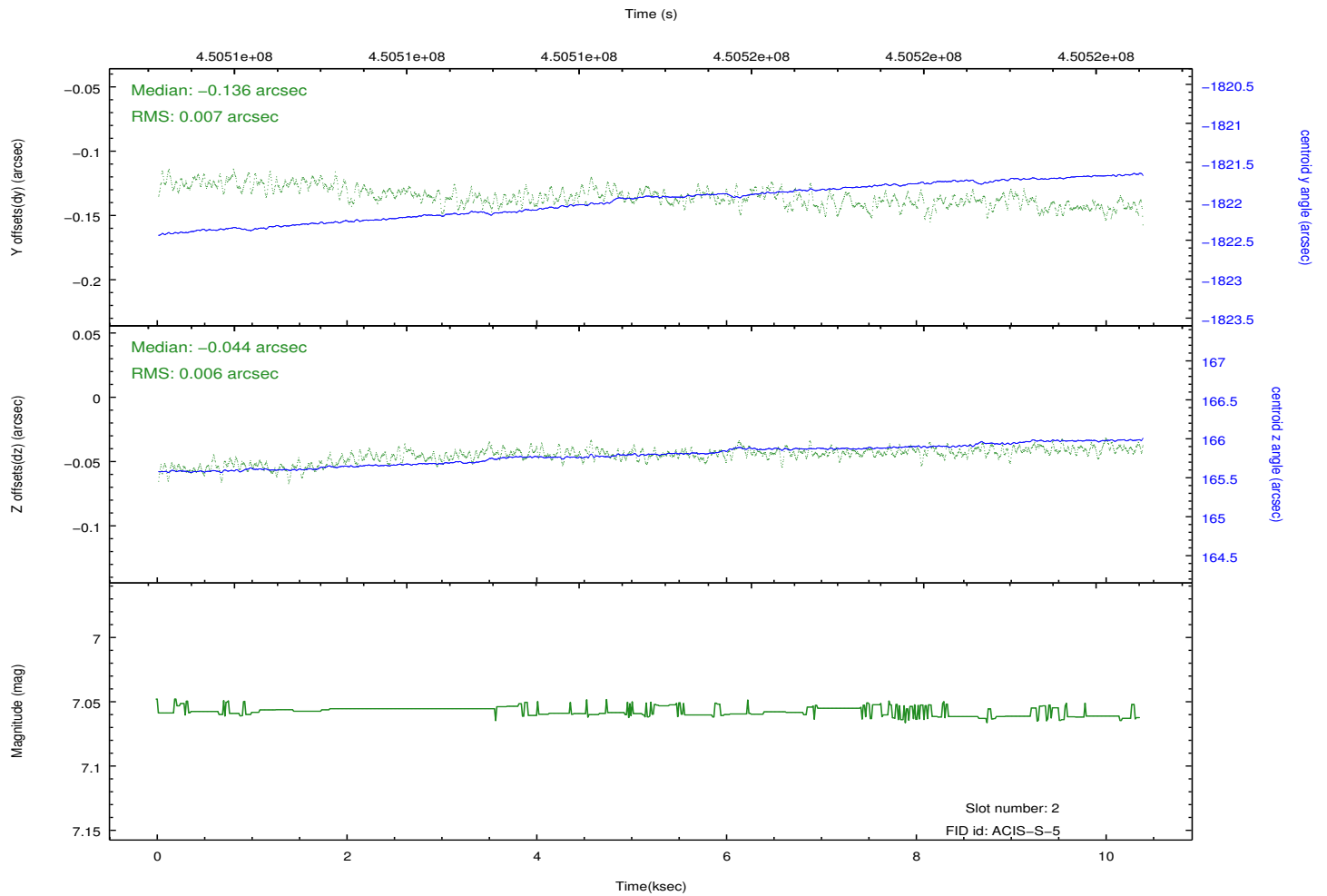
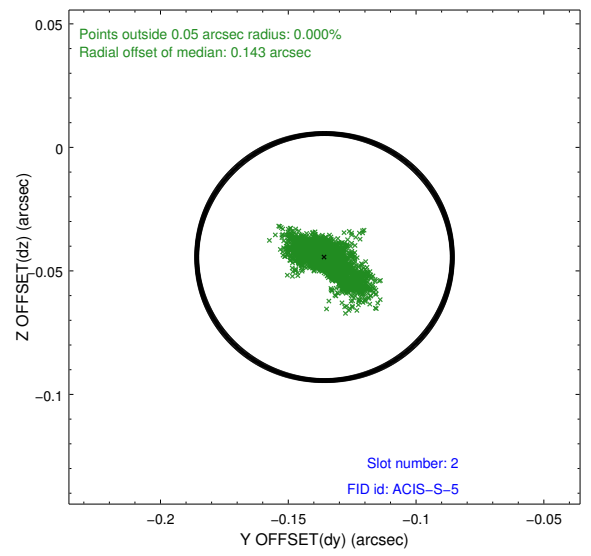
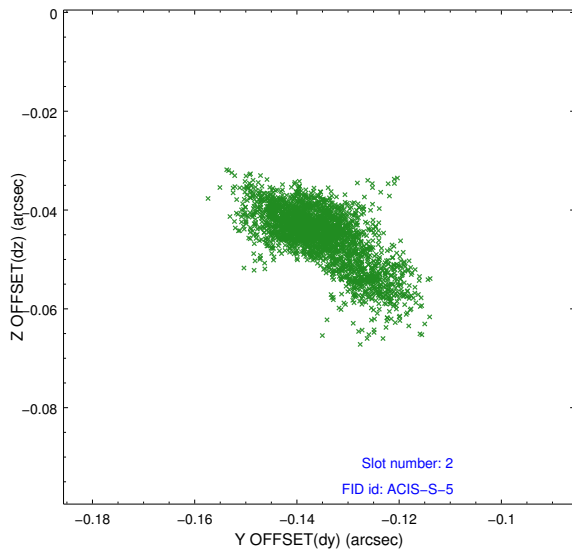
2.5.1 Slot 0



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)	2012.04.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9647999629378

A.2 Comments

The guide star in slot 5 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.