

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 15086 - L2 Version 2
Chandra X-Ray Center

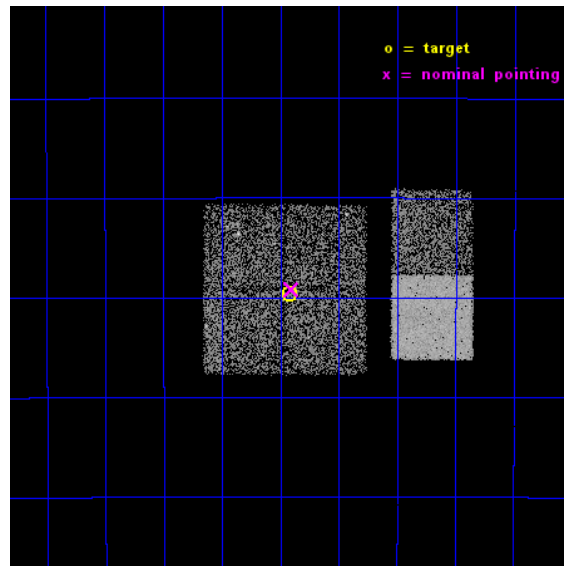
L2 Processing Date : Dec 7 2014

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1 Front

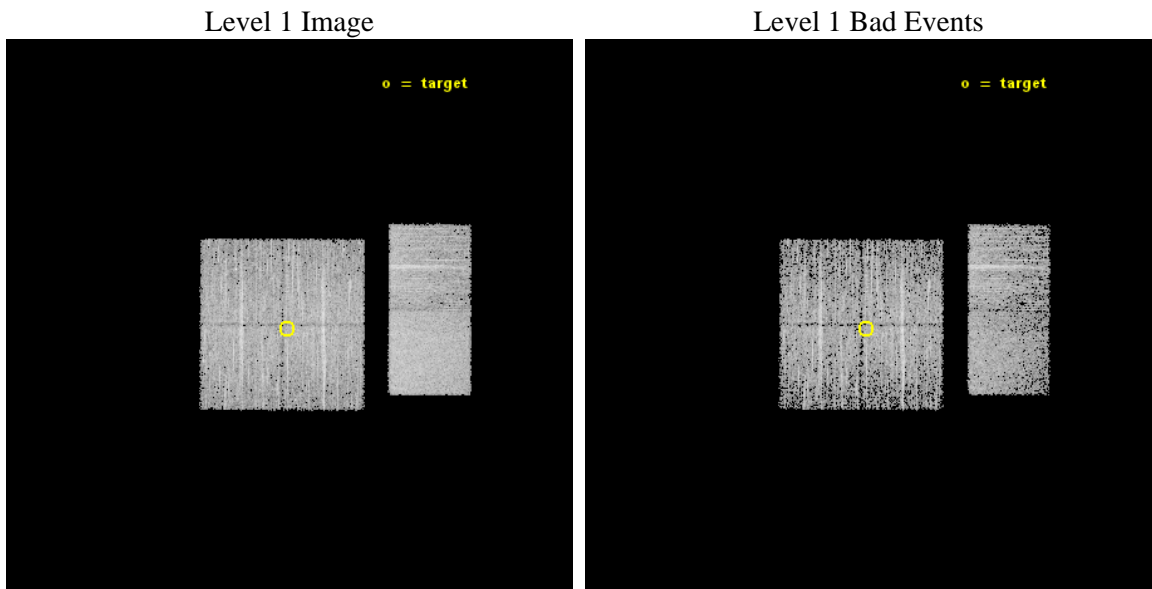
seq_num	801218	Sequence number
obs_id	15086	Observation id
title	Mapping the nearest non-cool core cluster out to R200	Proposal tit
observer	Dr Ka-wah Wong	Principal investigator
object	Antlia E4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	158.979167	Observer's specified target RA [deg]
dec_targ	-35.327694	Observer's specified target Dec [deg]
ra_nom	158.97616593241	Nominal RA [deg]
dec_nom	-35.319931060055	Nominal Dec [deg]
roll_nom	90.206943415786	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6755.1999748945	Sum of GTIs [s]
livetime	6669.6615653193	Livetime [s]
ontime0	6755.1999748945	Sum of GTIs [s]
ontime1	6755.1999748945	Sum of GTIs [s]
ontime2	6755.1999748945	Sum of GTIs [s]
ontime3	6755.1999748945	Sum of GTIs [s]
ontime6	6755.1999748945	Sum of GTIs [s]
ontime7	6755.1999748945	Sum of GTIs [s]
l2events	35770	Number of level 2 events



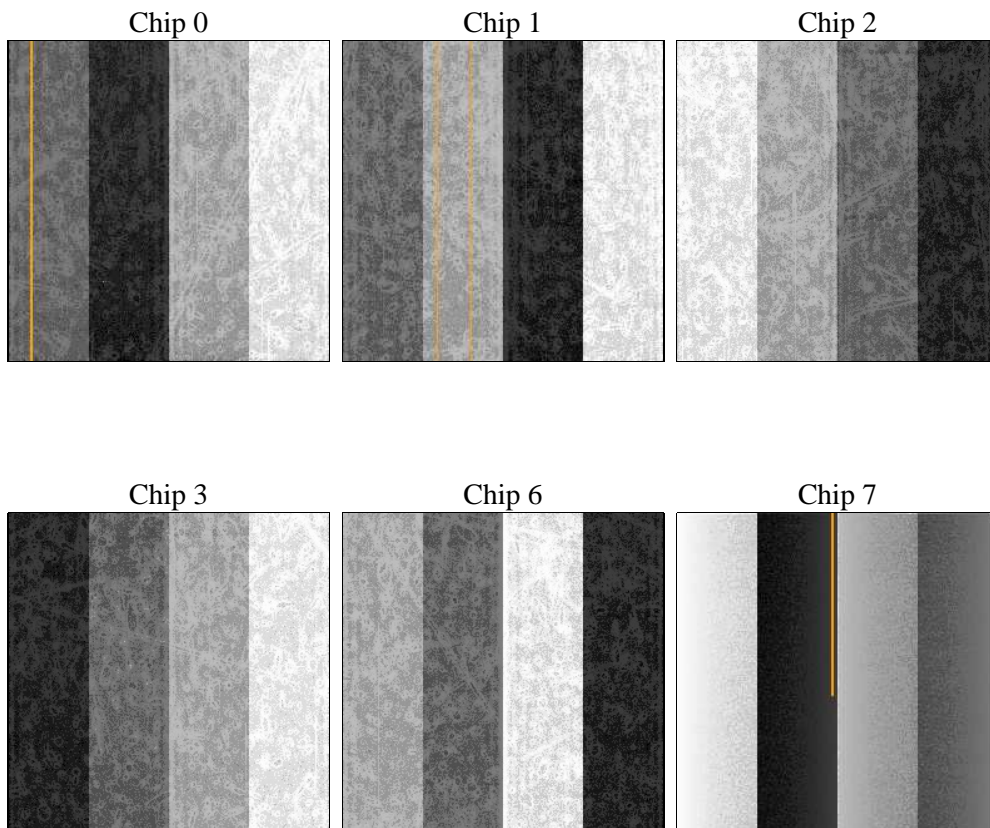
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	6755.1999748945	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	6755.1999748945	Sum of GTIs [s]
date	2014-12-07T19:13:07	Date and time of file creation	ontime1	6755.1999748945	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6755.1999748945	Sum of GTIs [s]
			ontime3	6755.1999748945	Sum of GTIs [s]
			ontime6	6755.1999748945	Sum of GTIs [s]
			ontime7	6755.1999748945	Sum of GTIs [s]
			l1events	201565	Number of level 1 events

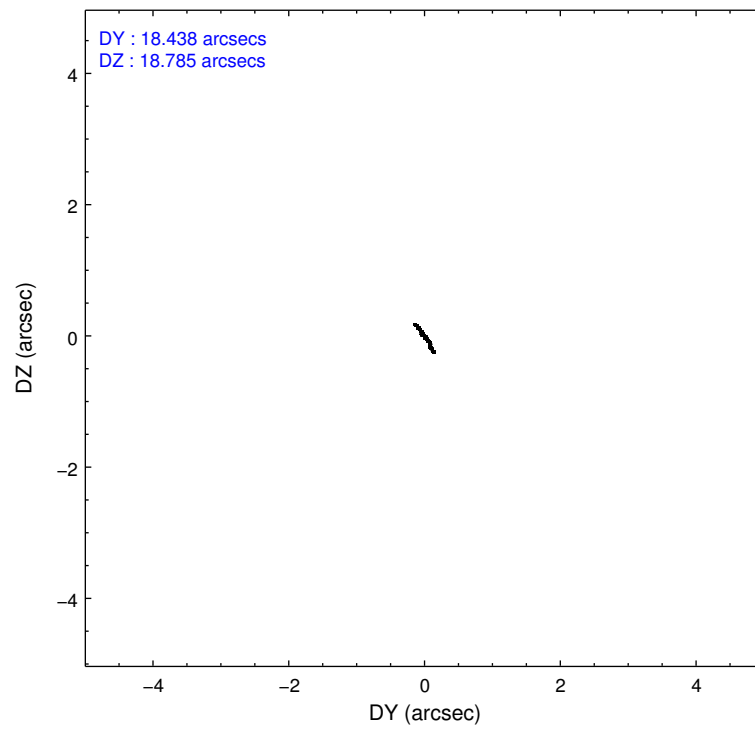
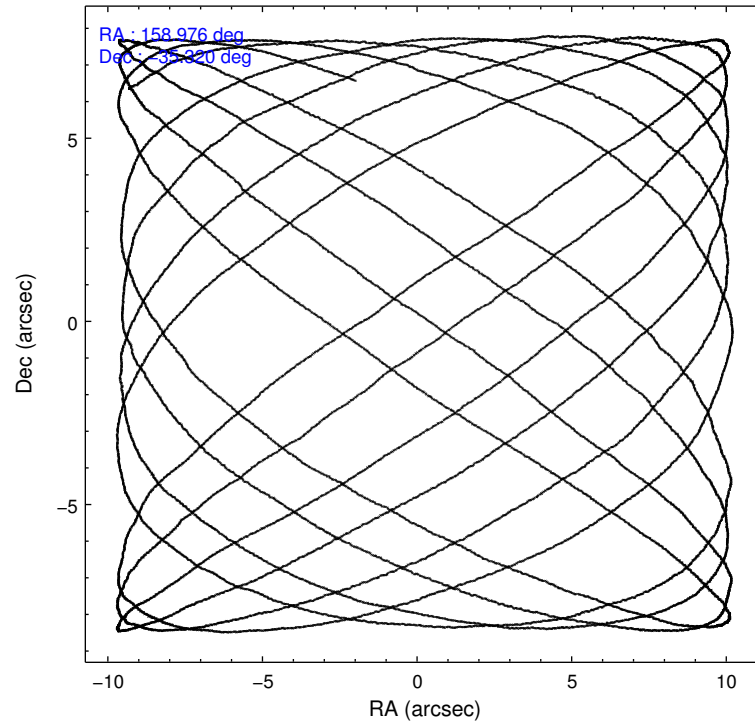
2.1.4 Events

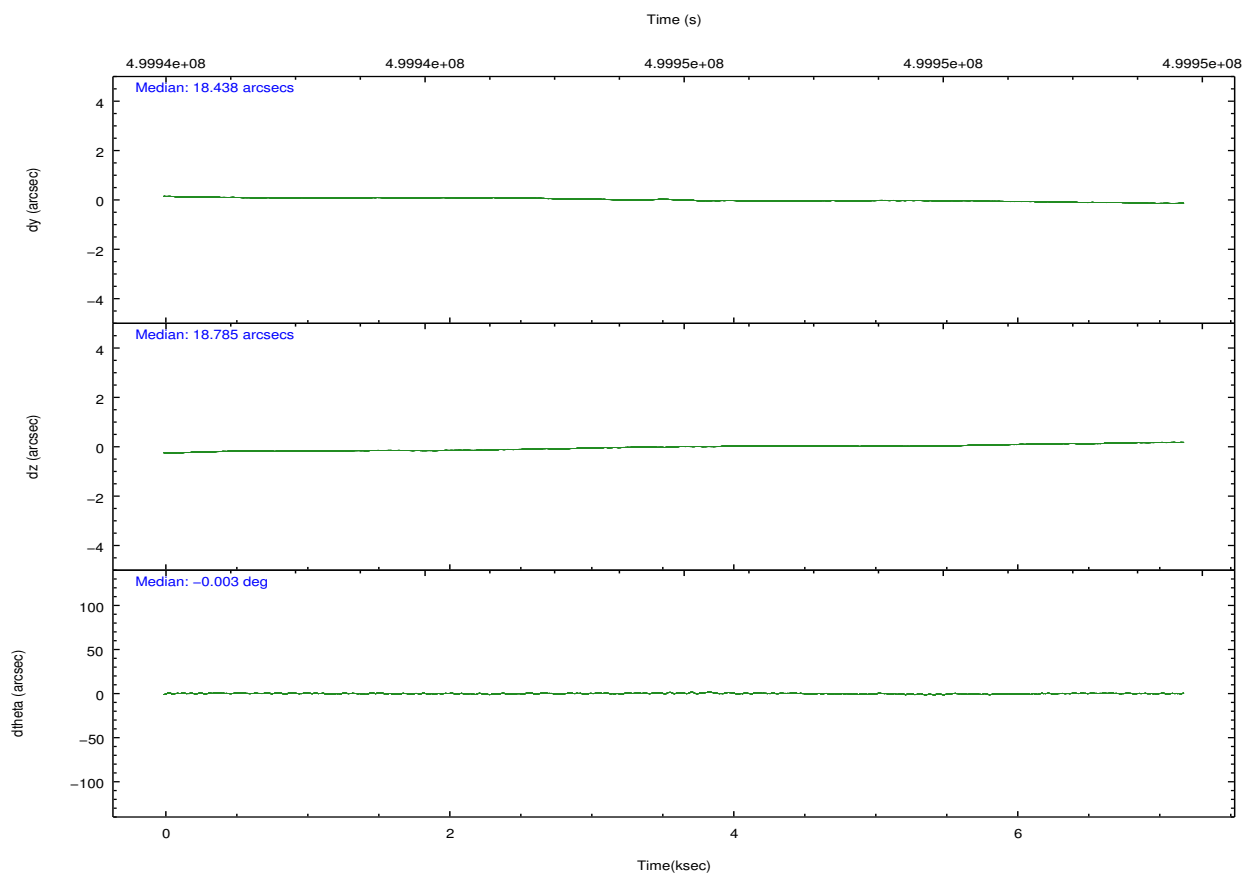
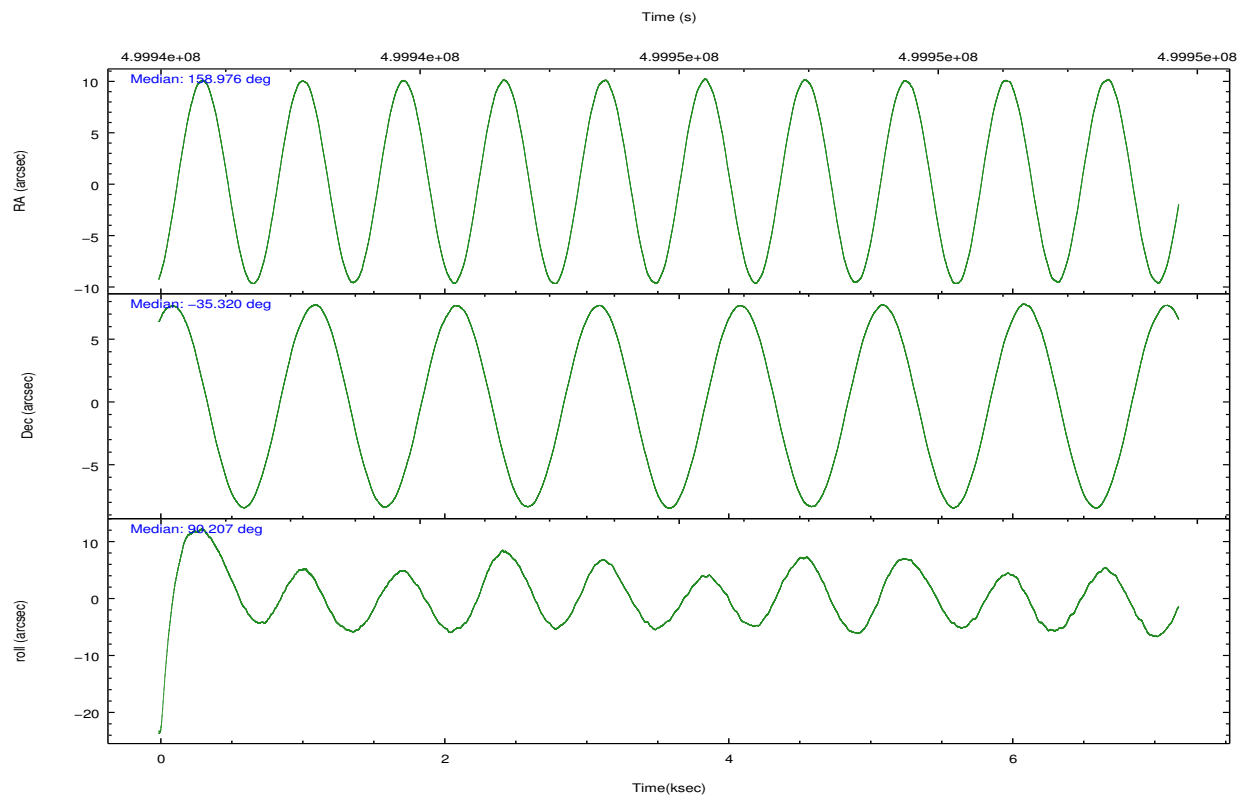
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	29591	31066	32056	31303	33230	44319	grade 0 events	1521	1625	1420	1283	1385	1694
rejected events	25574	26661	28347	27668	29135	24988		5%	5%	4%	4%	4%	3%
rejected %	86%	85%	88%	88%	87%	56%	grade 1 events	22	8	18	19	13	53
								0%	0%	0%	0%	0%	0%
							grade 2 events	934	1037	886	815	946	4013
								3%	3%	2%	2%	2%	9%
							grade 3 events	405	428	387	367	398	1624
								1%	1%	1%	1%	1%	3%
							grade 4 events	334	455	342	385	411	1551
								1%	1%	1%	1%	1%	3%
							grade 5 events	1439	1592	1449	1723	1750	4645
								4%	5%	4%	5%	5%	10%
							grade 6 events	826	863	677	785	957	10465
								2%	2%	2%	2%	2%	23%
							grade 7 events	24110	25058	26877	25926	27370	20274
								81%	80%	83%	82%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	158.993268	158.9761659324054	CCD I2 on	Y	Y
[deg] Pointing Dec	-35.343693	-35.31993106005499	CCD I3 on	Y	Y
[deg] Pointing Roll	90.008153	90.20694341578616	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	499942505.184000	499942120.39592	CCD S5 on	N	N
Observation start date	2013-11-04T08:53:58	2013-11-04T08:48:40	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	499949505.184000	499950454.67138	On-chip summing requested	N	N
Observation end date	2013-11-04T10:50:38	2013-11-04T11:07:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



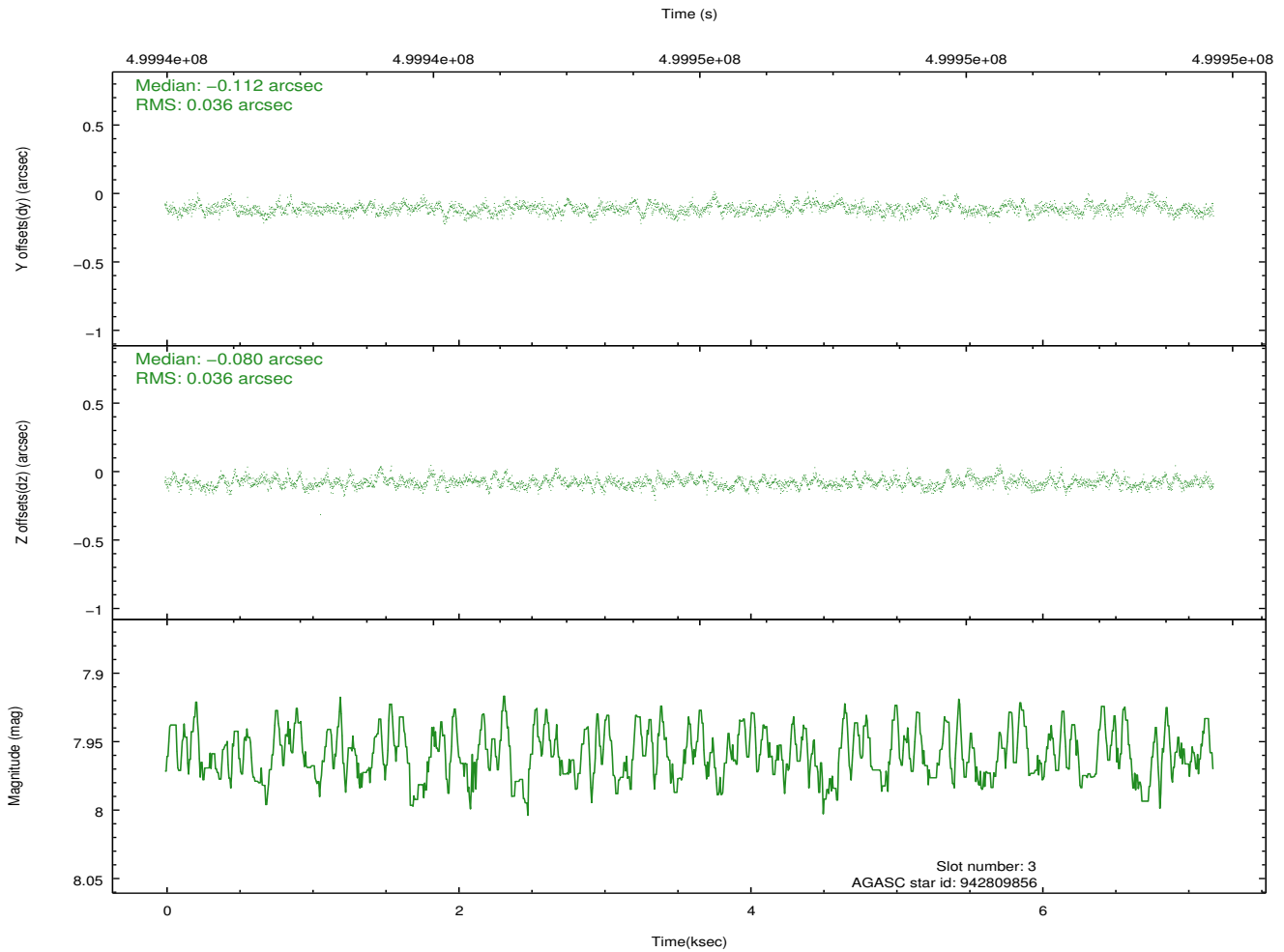
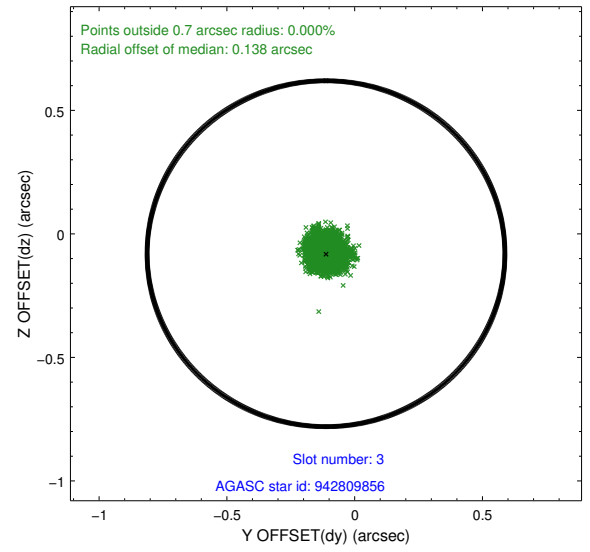
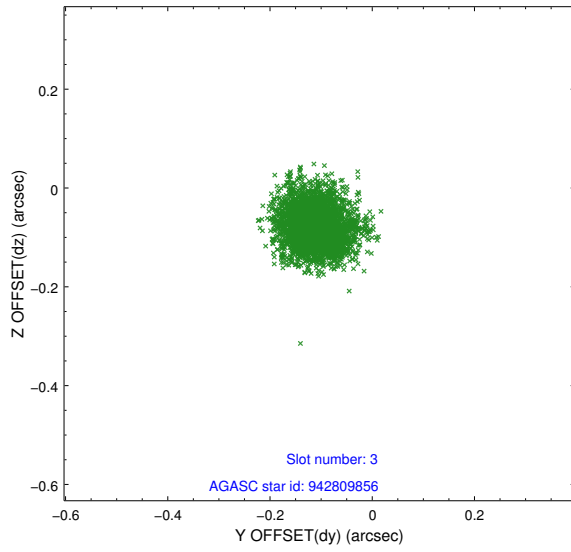


Slot Statistics

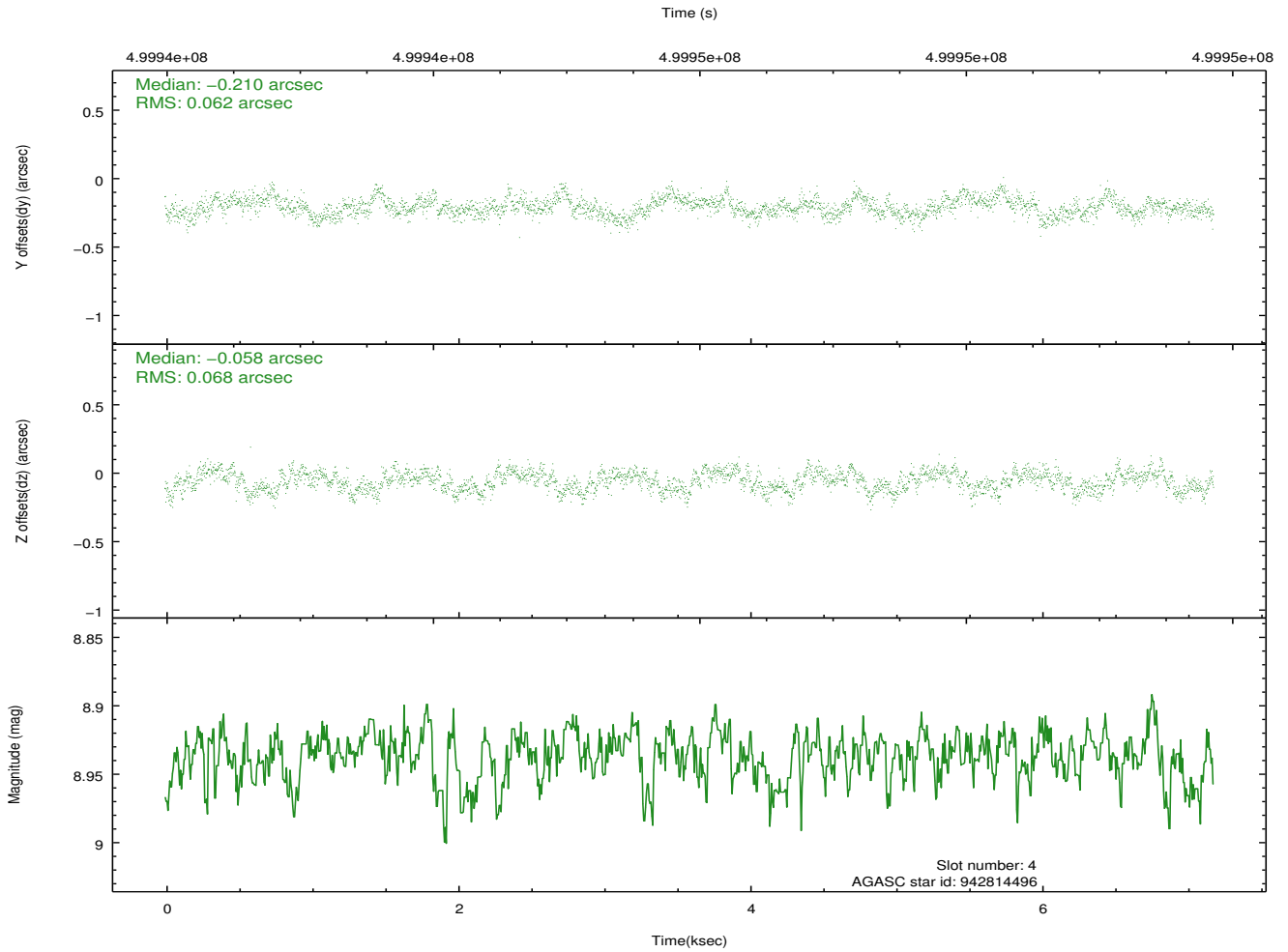
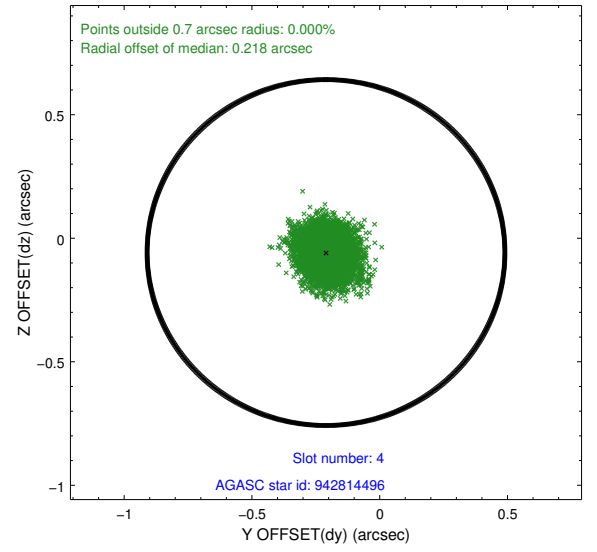
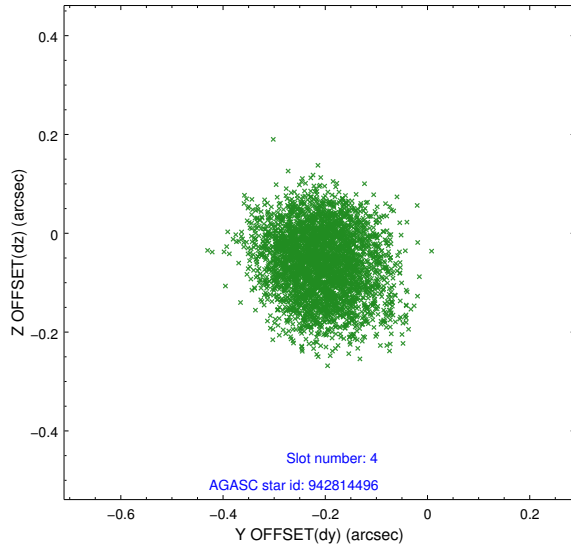
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.04	1752	0.032	0.049	0.007	0.013	0.000000	0.000000	920.97	-842.38
1	FID		ACIS-I-5	7.03	1752	-0.243	0.040	0.007	0.013	0.000000	0.000000	-1827.02	1054.64
2	FID		ACIS-I-6	7.04	1752	0.119	-0.019	0.007	0.011	0.000000	0.000000	385.67	1700.03
3	GUIDE	used	942809856	7.96	3505	-0.112	-0.080	0.054	0.090	158.721337	-35.085088	930.28	801.62
4	GUIDE	used	942814496	8.94	3502	-0.210	-0.058	0.100	0.156	158.878530	-35.136399	746.04	337.92
5	GUIDE	used	942818512	8.90	3504	-0.131	-0.050	0.095	0.157	158.482243	-34.978583	1310.80	1507.71
6	GUIDE	used	943339192	9.24	3504	0.149	-0.144	0.096	0.160	158.241251	-35.818886	-1718.41	2195.91
7	GUIDE	used	943345760	7.44	3503	0.298	0.332	0.081	0.123	159.425264	-35.720031	-1358.10	-1261.42

2.4 Star Slots

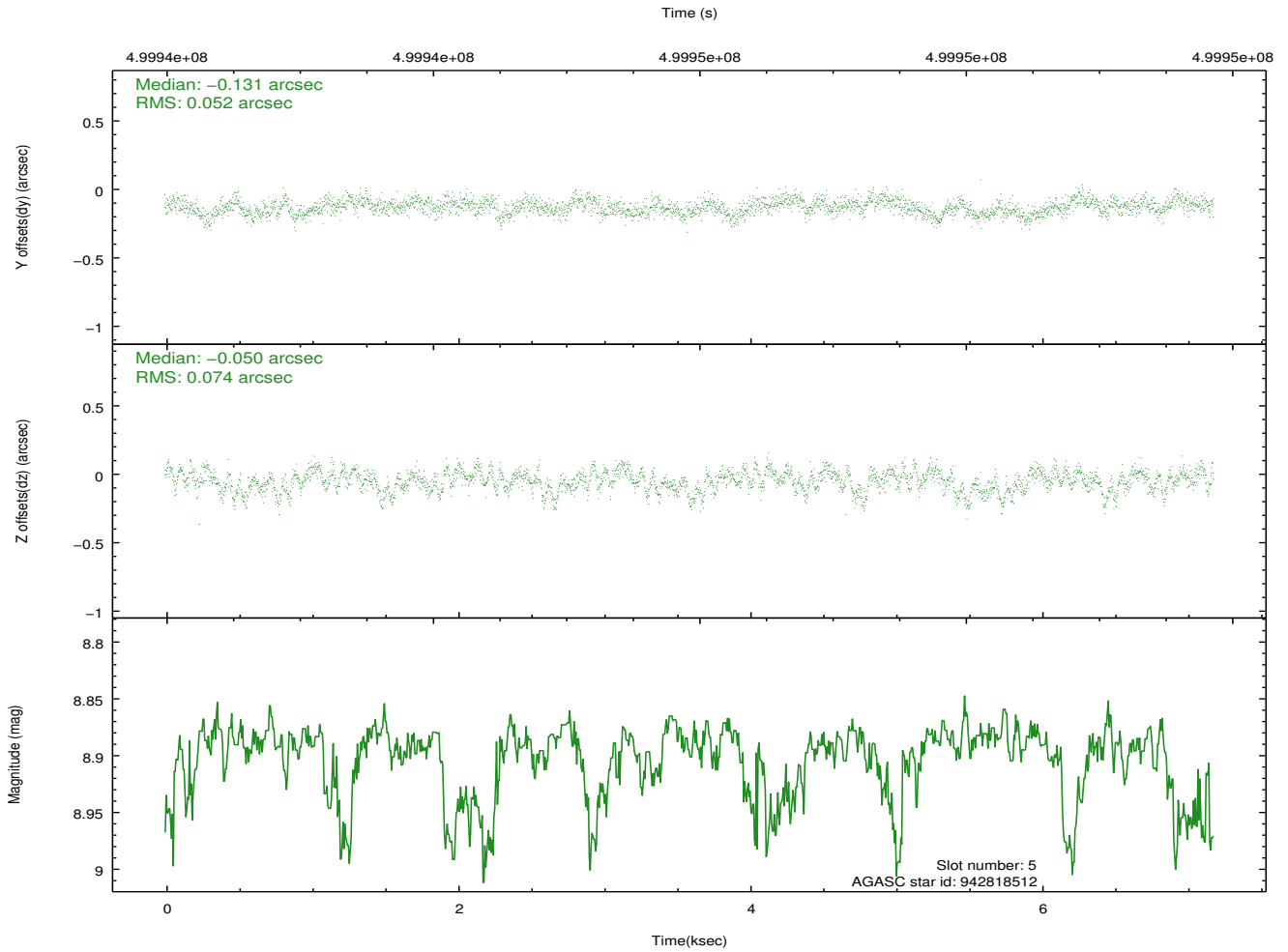
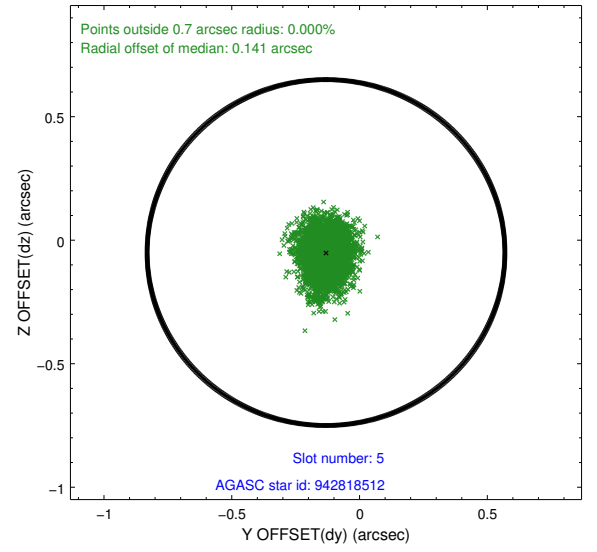
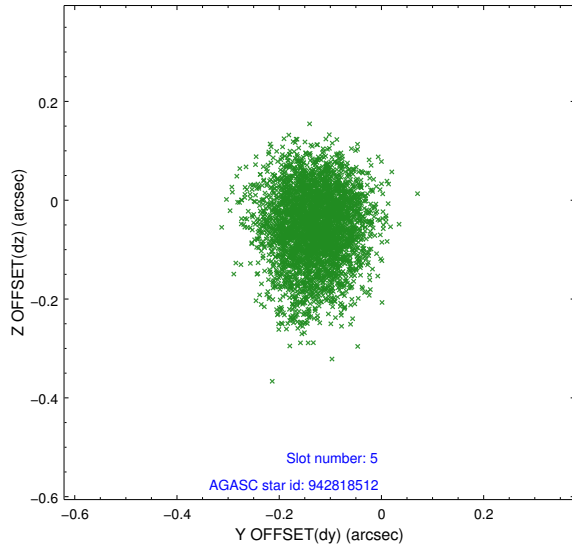
2.4.1 Slot 3



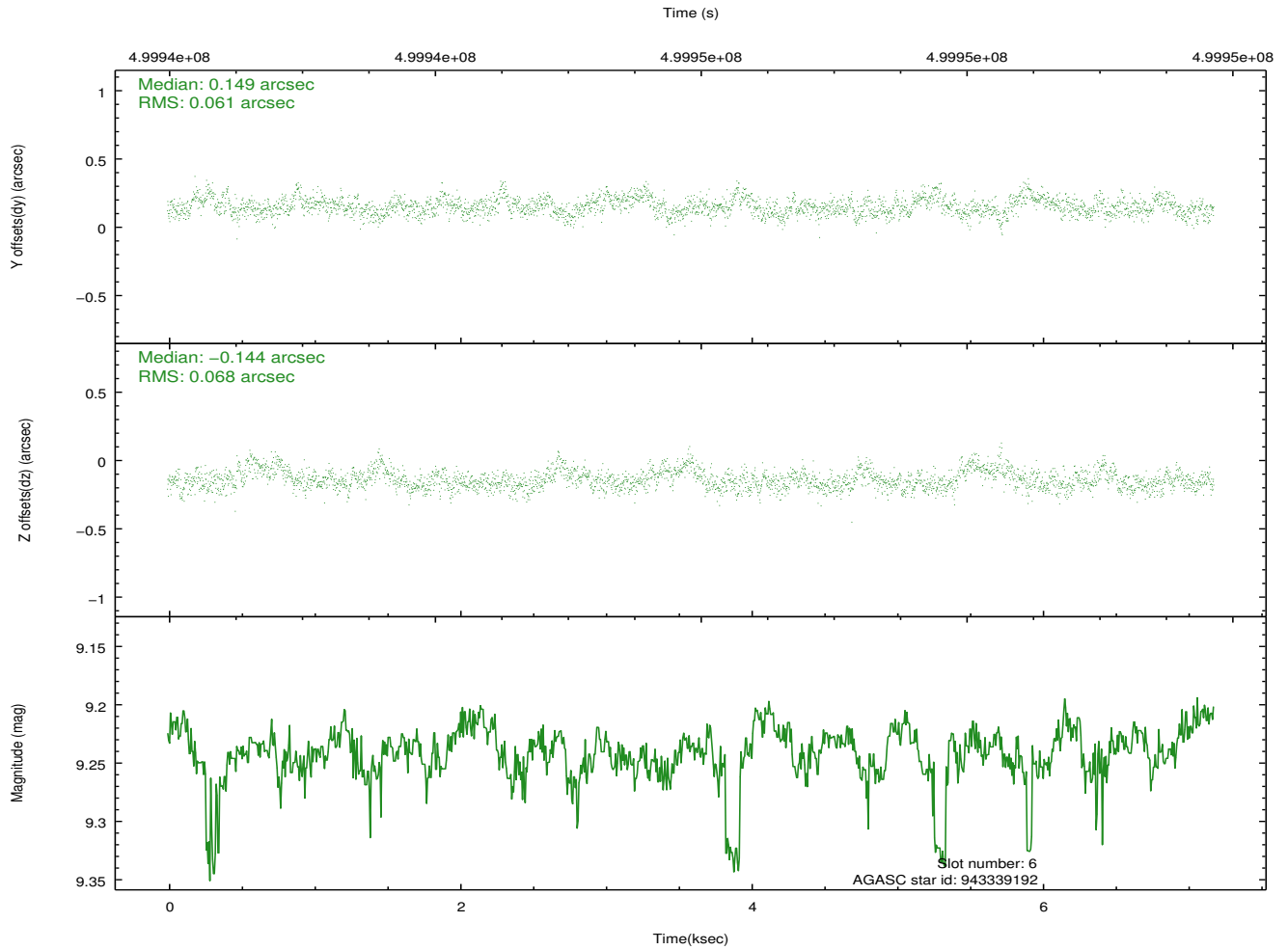
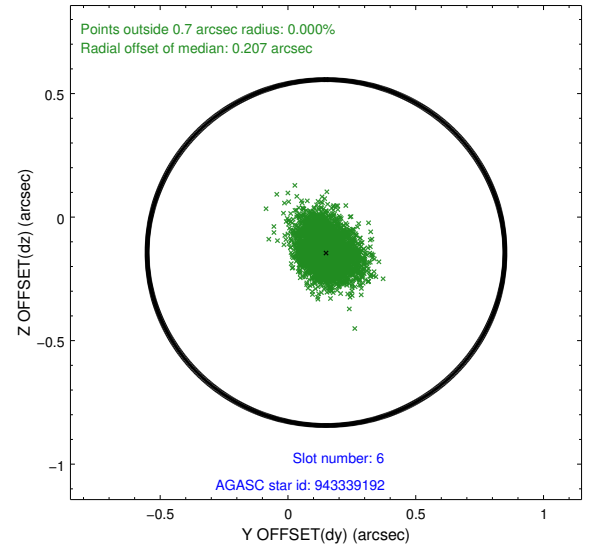
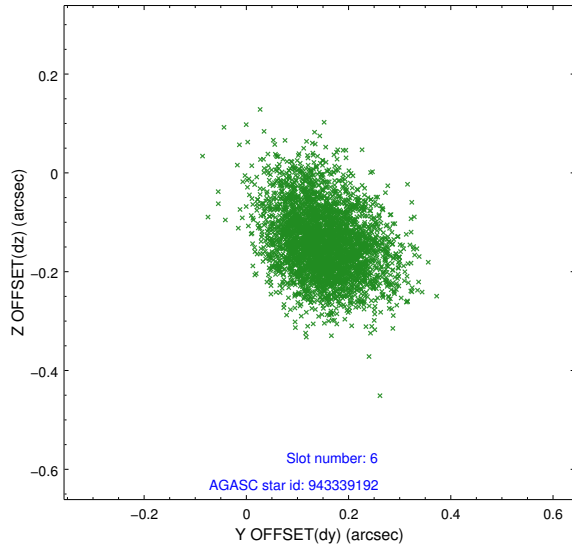
2.4.2 Slot 4



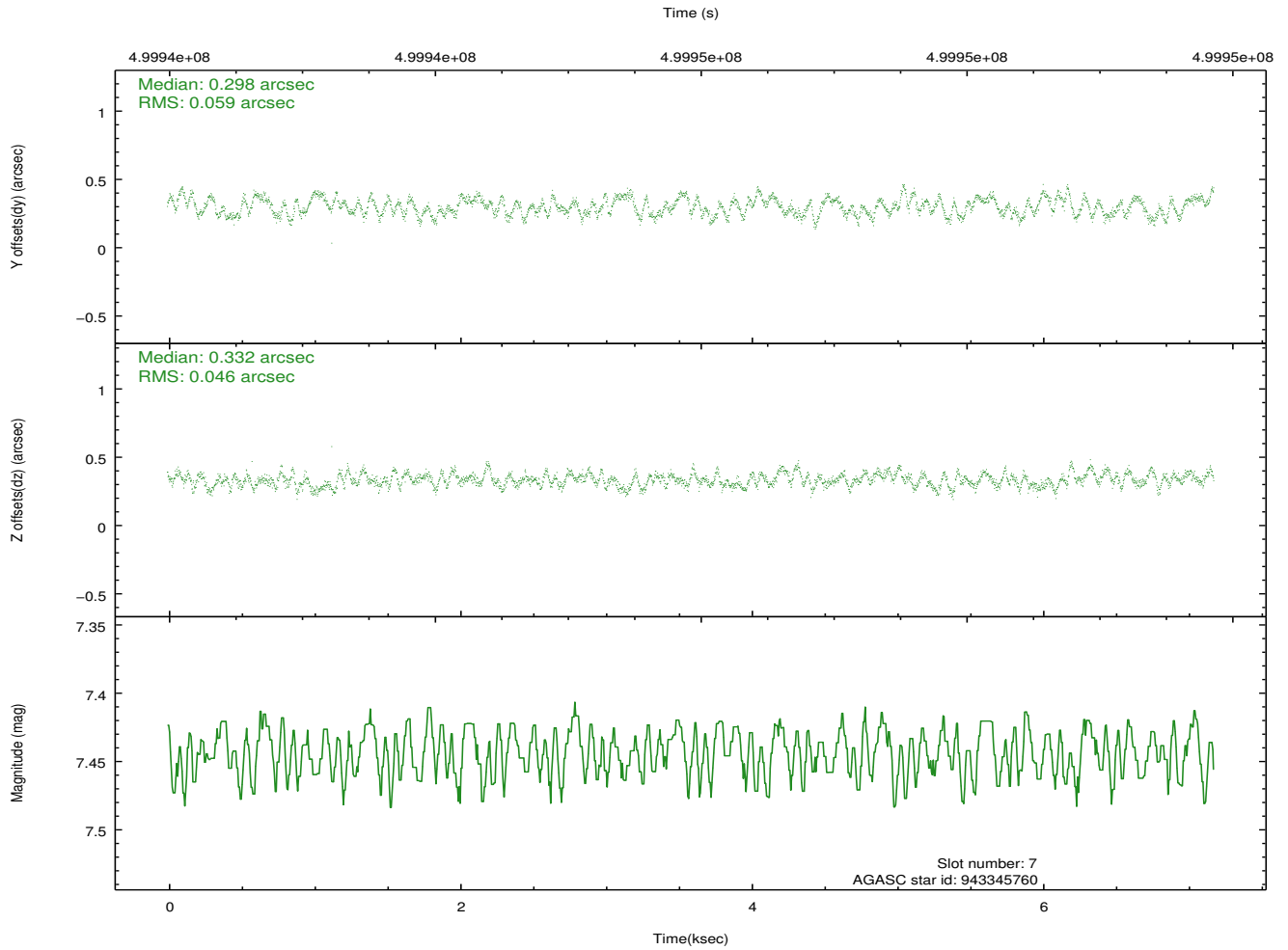
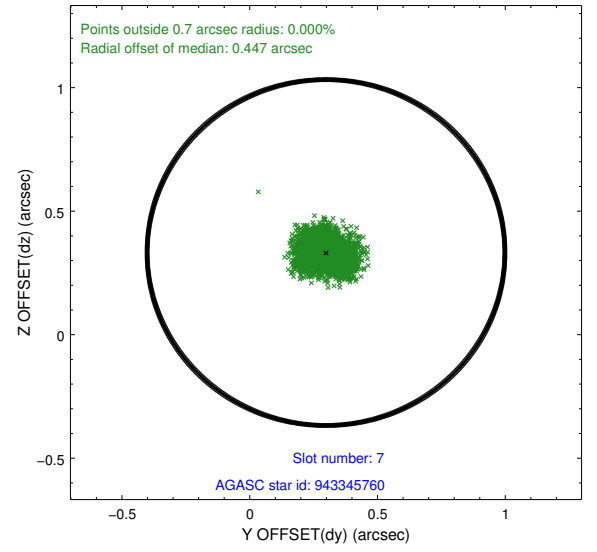
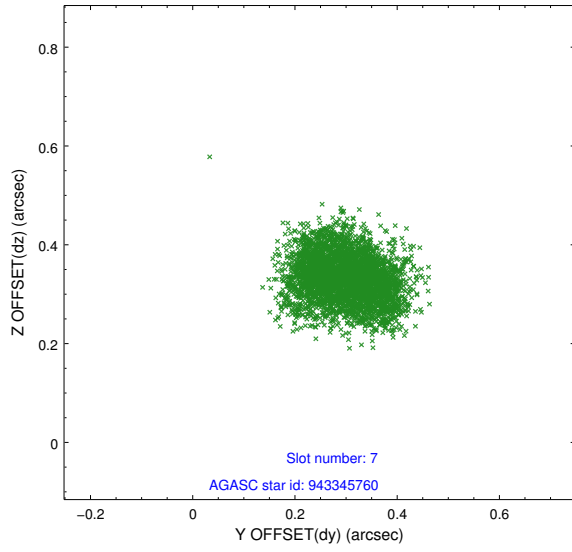
2.4.3 Slot 5



2.4.4 Slot 6

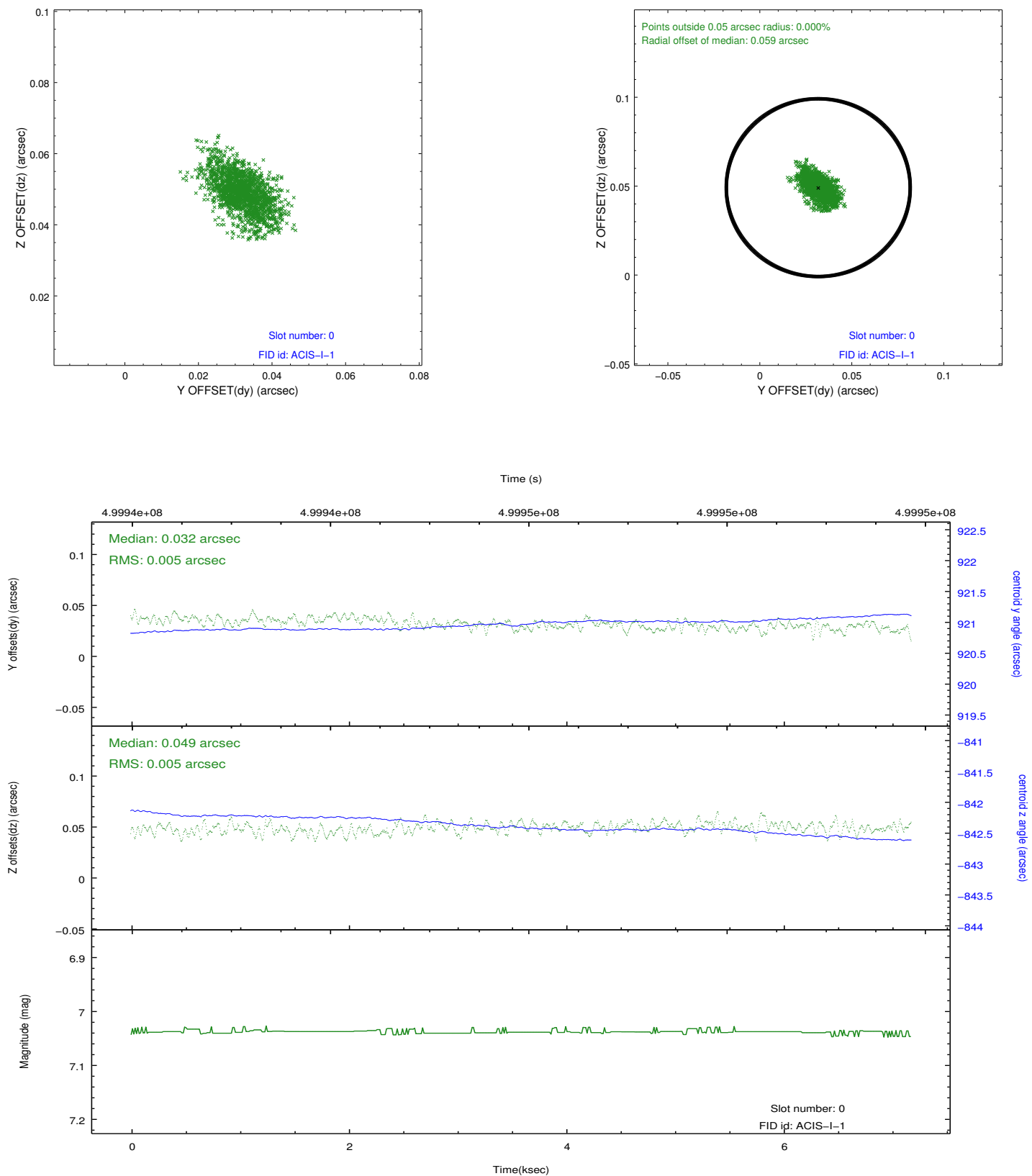


2.4.5 Slot 7

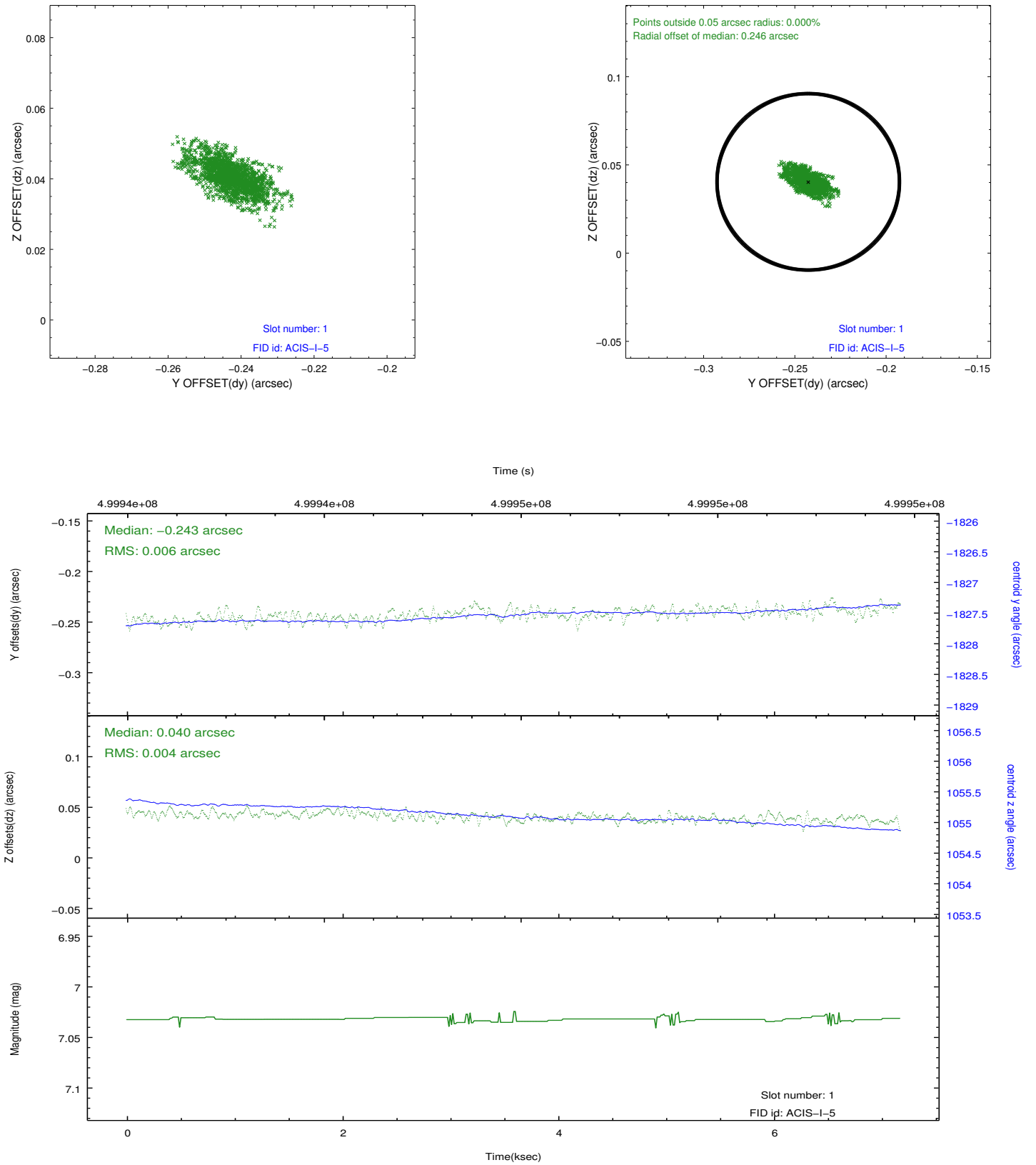


2.5 FID Slots

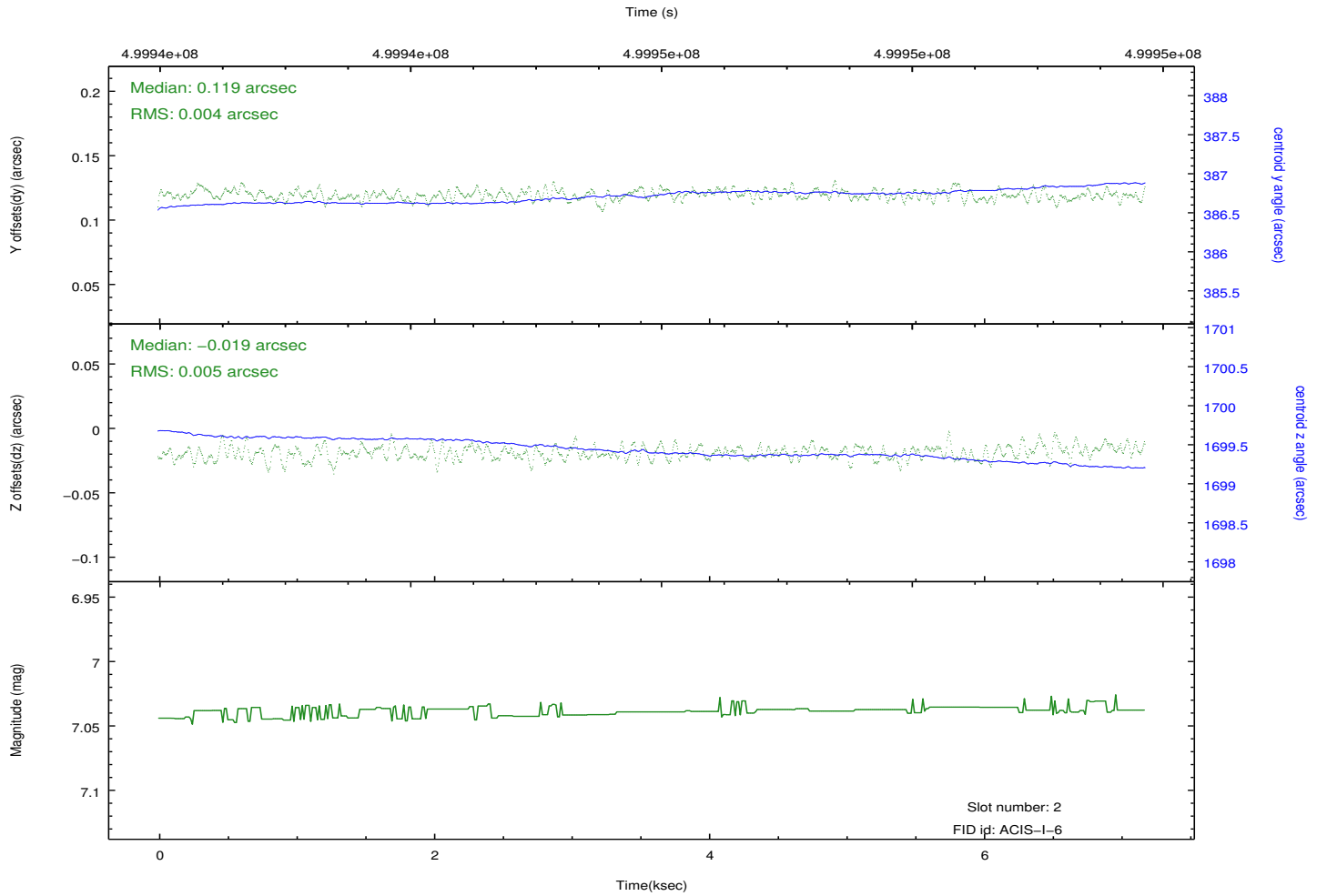
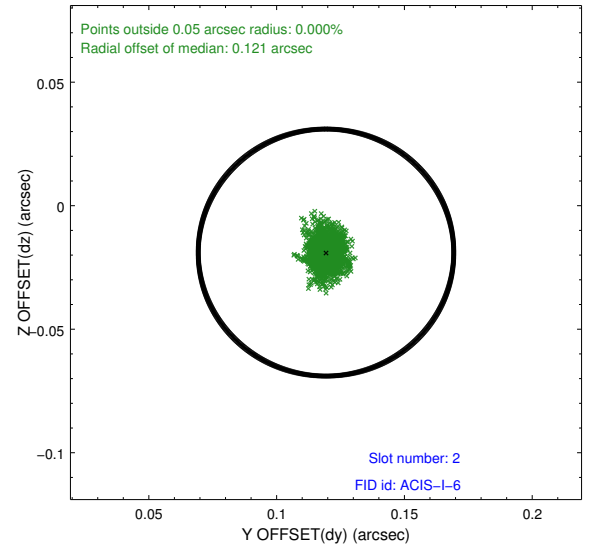
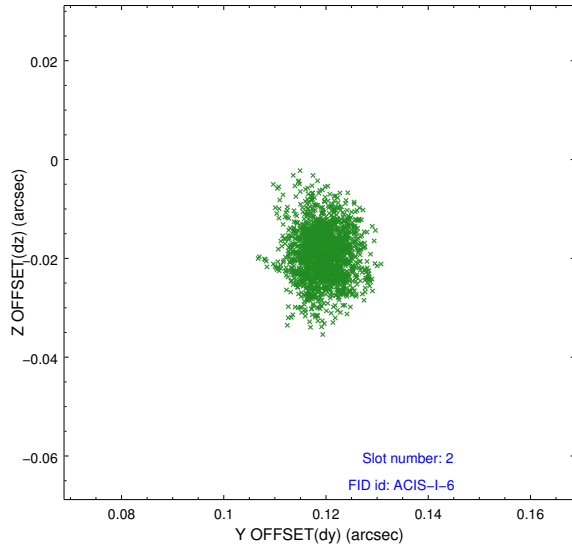
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.7551999748945

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.