

V&V Reference Report

L2 ASCDS Version : 10

Observation 14904 - L2 Version 2
Chandra X-Ray Center

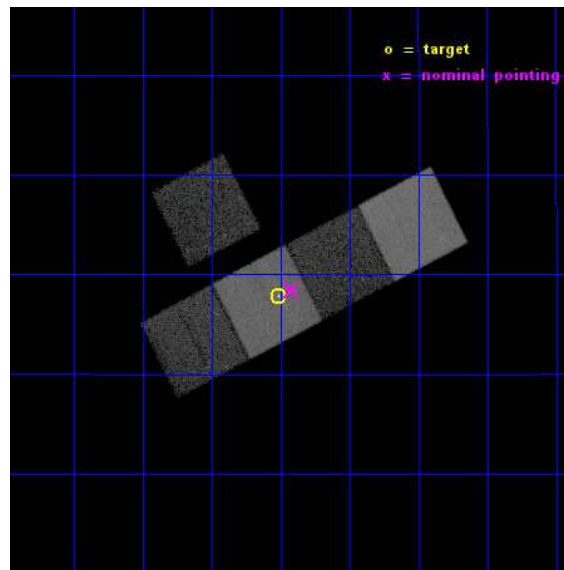
L2 Processing Date : Dec 6 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

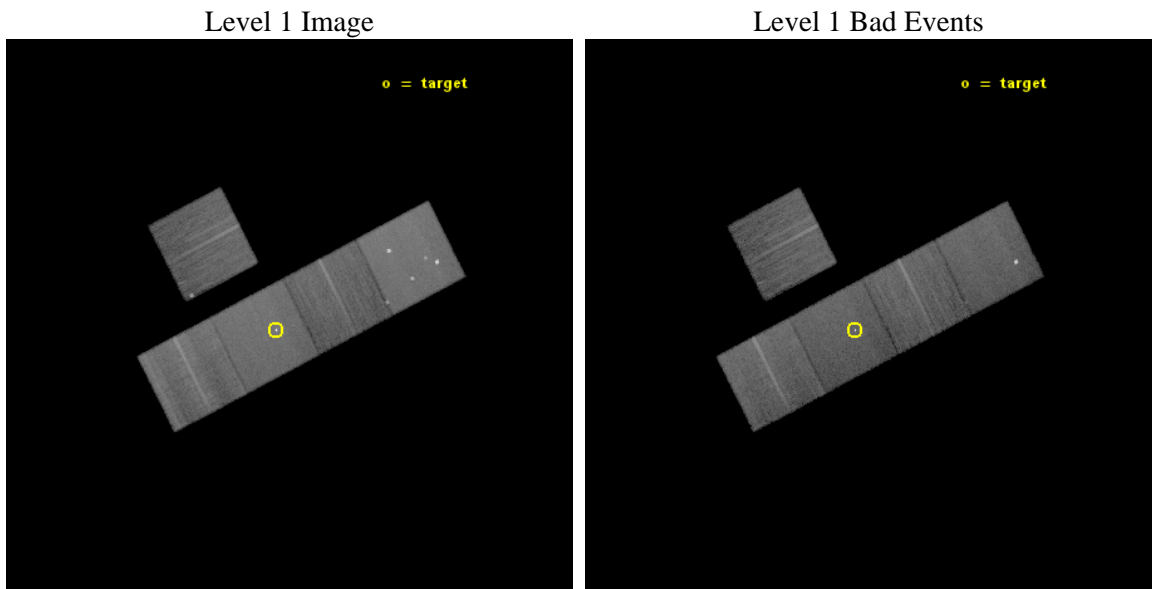
seq_num	601034	Sequence number
obs_id	14904	Observation id
title	PROBING GALAXY FORMATION WITH FAST ROTATING ELLIPTICAL GALAXIES	Pr
observer	Dr Rebecca Canning	Principal investigator
object	NGC7465	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	345.50375	Observer's specified target RA [deg]
dec_targ	15.964806	Observer's specified target Dec [deg]
ra_nom	345.48024016881	Nominal RA [deg]
dec_nom	15.973631843176	Nominal Dec [deg]
roll_nom	152.76261536202	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30063.800231218	Sum of GTIs [s]
livetime	29670.99454855	Livetime [s]
ontime3	30063.800231218	Sum of GTIs [s]
ontime5	30063.800231218	Sum of GTIs [s]
ontime6	30063.800231218	Sum of GTIs [s]
ontime7	30063.800231218	Sum of GTIs [s]
ontime8	30060.65917027	Sum of GTIs [s]
l2events	252372	Number of level 2 events



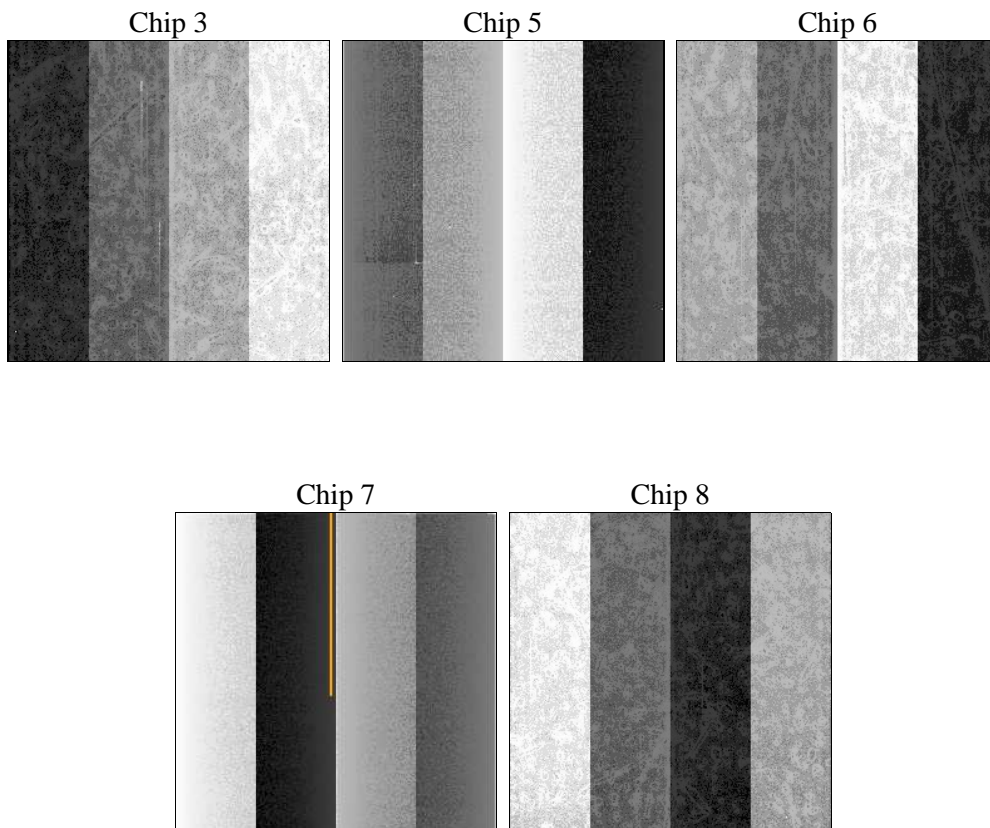
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	30063.800231218	Sum of GTIs [s]
caldbver	4.6.4	 	ontime3	30063.800231218	Sum of GTIs [s]
date	2014-12-06T06:05:39	Date and time of file creation	ontime5	30063.800231218	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	30063.800231218	Sum of GTIs [s]
			ontime7	30063.800231218	Sum of GTIs [s]
			ontime8	30060.65917027	Sum of GTIs [s]
			l1events	968229	Number of level 1 events

2.1.4 Events

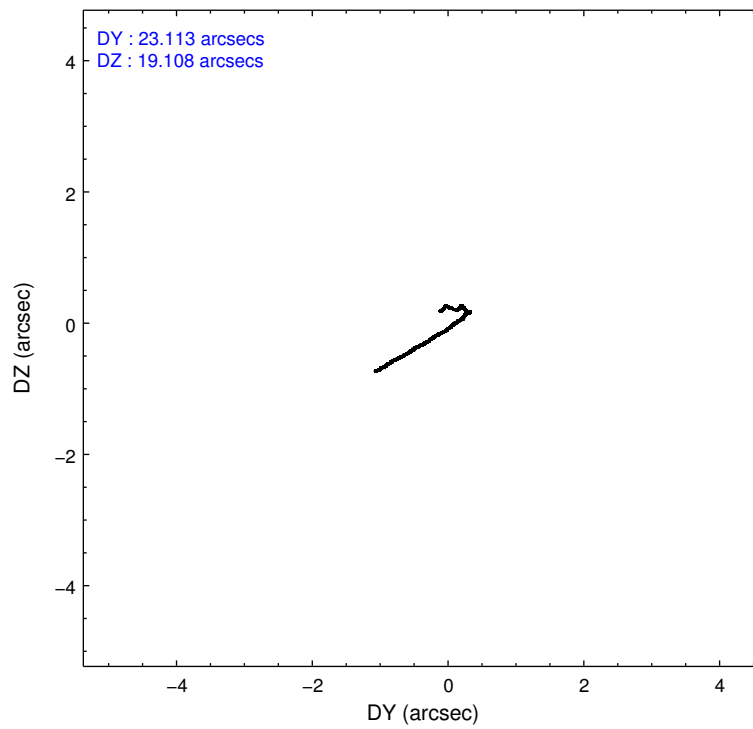
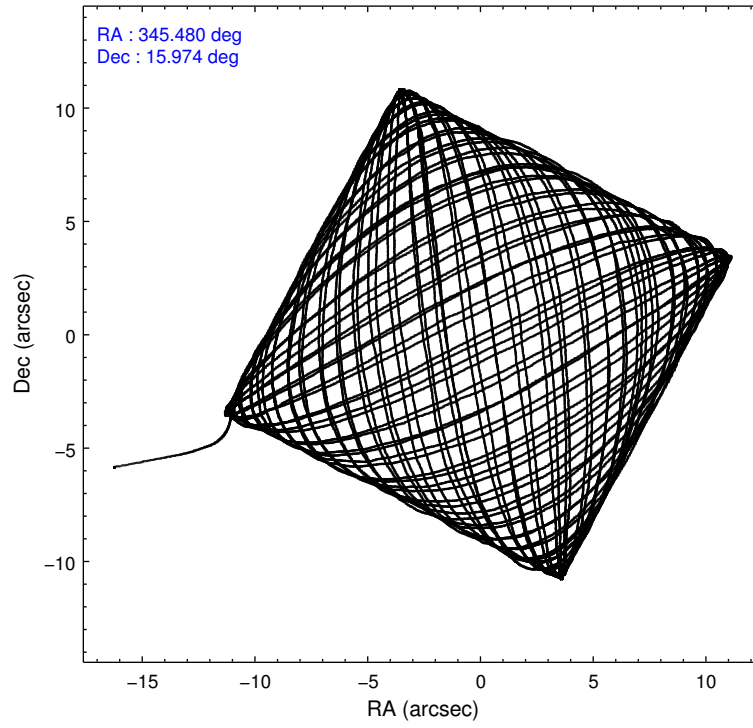
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	142997	264861	148883	213734	197754
rejected events	125537	136821	130905	117908	143219
rejected %	87%	51%	87%	55%	72%

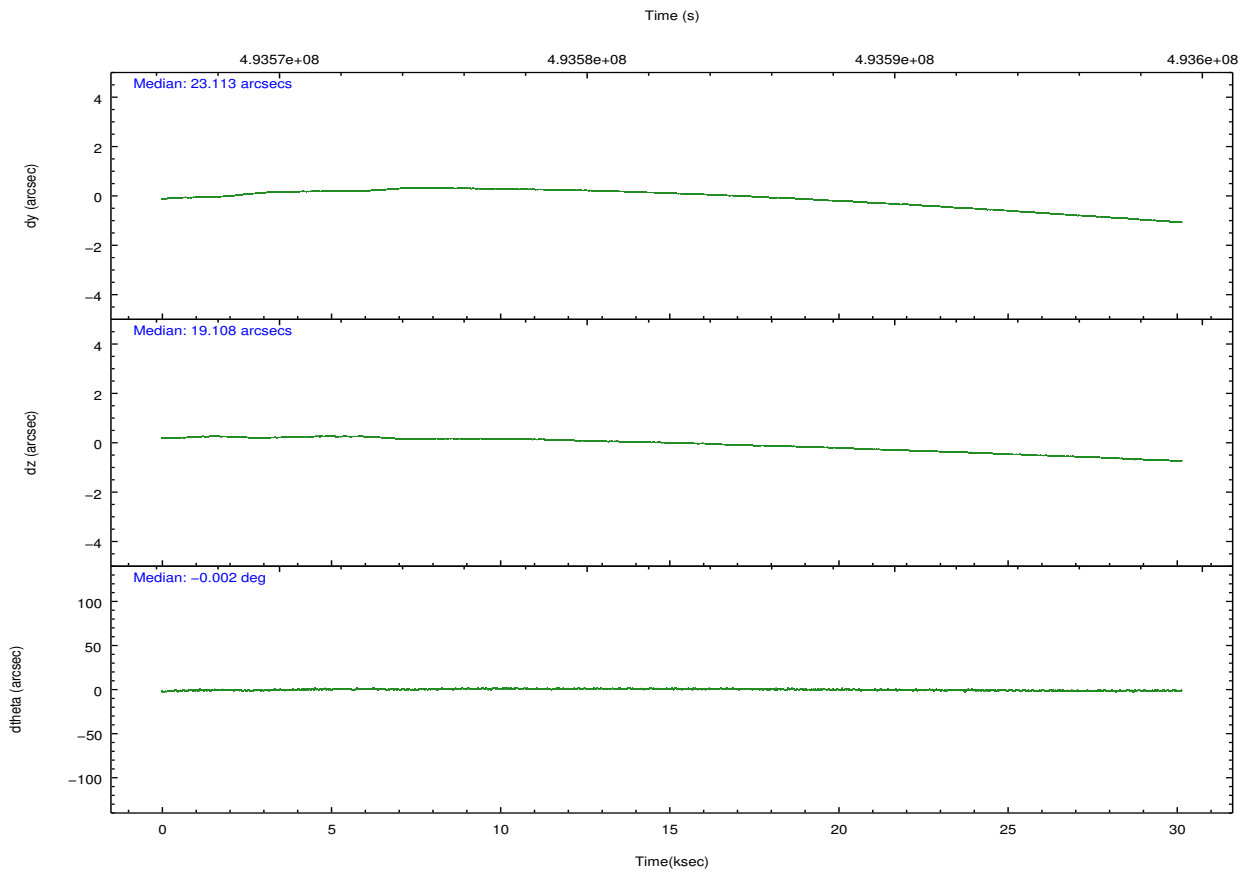
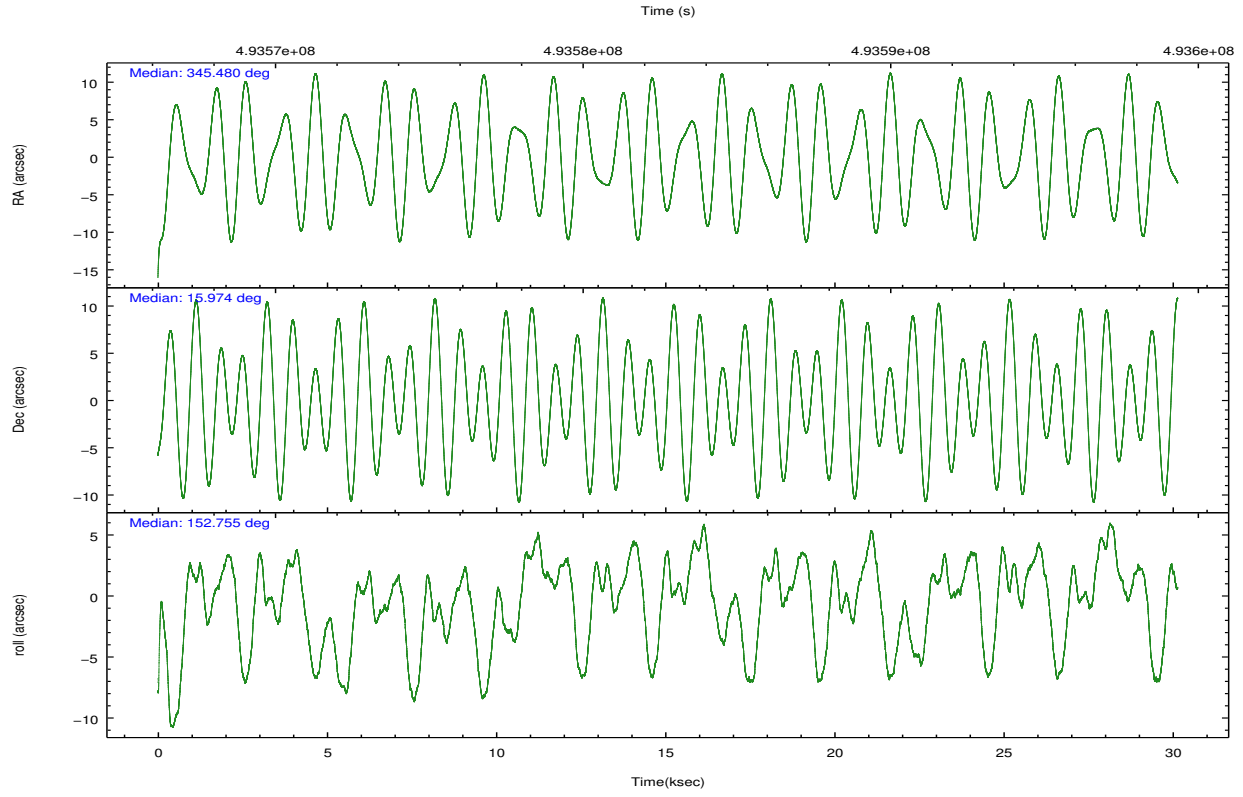
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6913	20228	6088	9070	15869
	4%	7%	4%	4%	8%
grade 1 events	75	554	67	488	130
	0%	0%	0%	0%	0%
grade 2 events	3536	36216	4066	19654	12459
	2%	13%	2%	9%	6%
grade 3 events	1732	4350	1892	8278	6013
	1%	1%	1%	3%	3%
grade 4 events	1746	3751	1799	8199	5774
	1%	1%	1%	3%	2%
grade 5 events	7600	20758	7597	21958	11264
	5%	7%	5%	10%	5%
grade 6 events	3534	63508	4137	50642	14421
	2%	23%	2%	23%	7%
grade 7 events	117861	115496	123237	95445	131824
	82%	43%	82%	44%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	345.508644	345.4802401688113	CCD I2 on	N	N
[deg] Pointing Dec	15.975326	15.97363184317607	CCD I3 on	Y	Y
[deg] Pointing Roll	152.598175	152.7626153620197	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	O1	Y
[s] Observation start time (MET)	493567812.184000	493566870.1475	CCD S5 on	N	N
Observation start date	2013-08-22T14:09:05	2013-08-22T13:54:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	493597812.184000	493599094.09926	On-chip summing requested	N	N
Observation end date	2013-08-22T22:29:05	2013-08-22T22:51:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





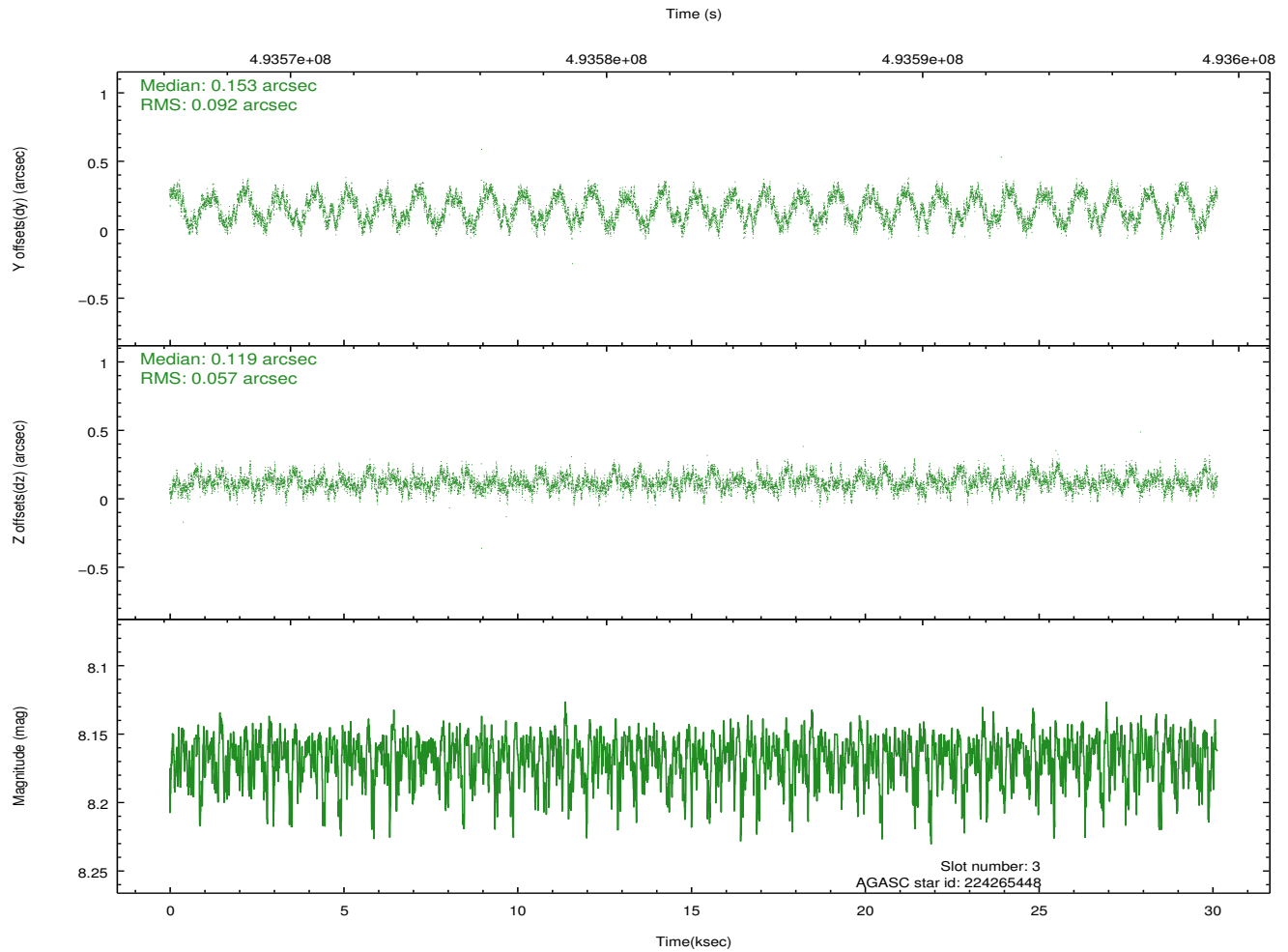
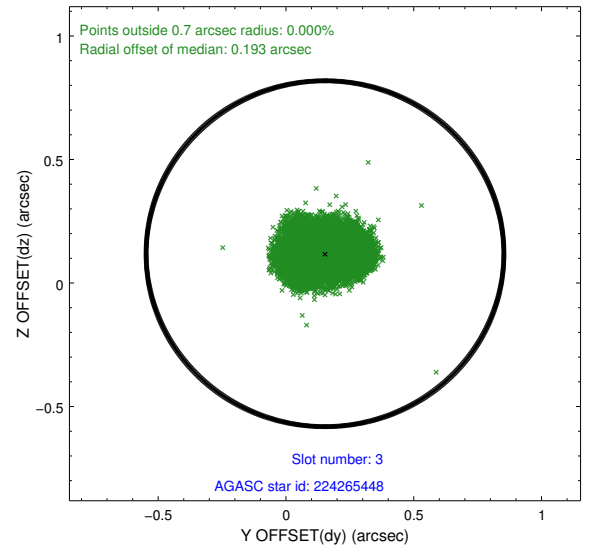
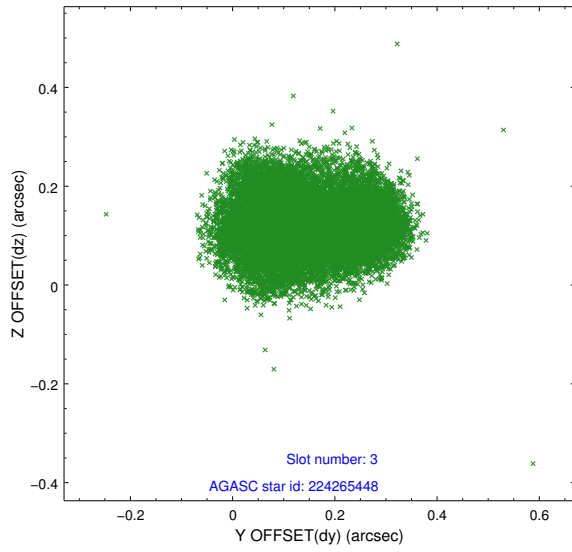
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	7352	-0.186	-0.114	0.014	0.034	0.000000	0.000000	-776.42	-1740.59
1	FID		ACIS-S-4	7.05	7353	0.216	0.103	0.013	0.030	0.000000	0.000000	2137.29	167.94
2	FID		ACIS-S-6	7.19	7353	-0.060	0.020	0.009	0.015	0.000000	0.000000	385.86	805.39
3	GUIDE	used	224265448	8.17	14703	0.153	0.119	0.120	0.172	345.823973	16.019010	-895.84	-642.46
4	GUIDE	used	224271944	7.80	14701	0.095	0.119	0.081	0.125	345.743362	16.457660	80.26	-1914.60
5	GUIDE	used	224272040	7.79	14704	-0.312	-0.326	0.065	0.104	345.211537	15.677856	421.47	1423.63
6	GUIDE	used	224276440	9.08	14634	-0.254	-0.329	0.095	0.151	344.713765	15.779511	2123.16	1890.71
7	GUIDE	used	224265232	8.92	14681	0.304	0.415	0.140	0.216	346.363693	16.198252	-2252.49	-2078.89

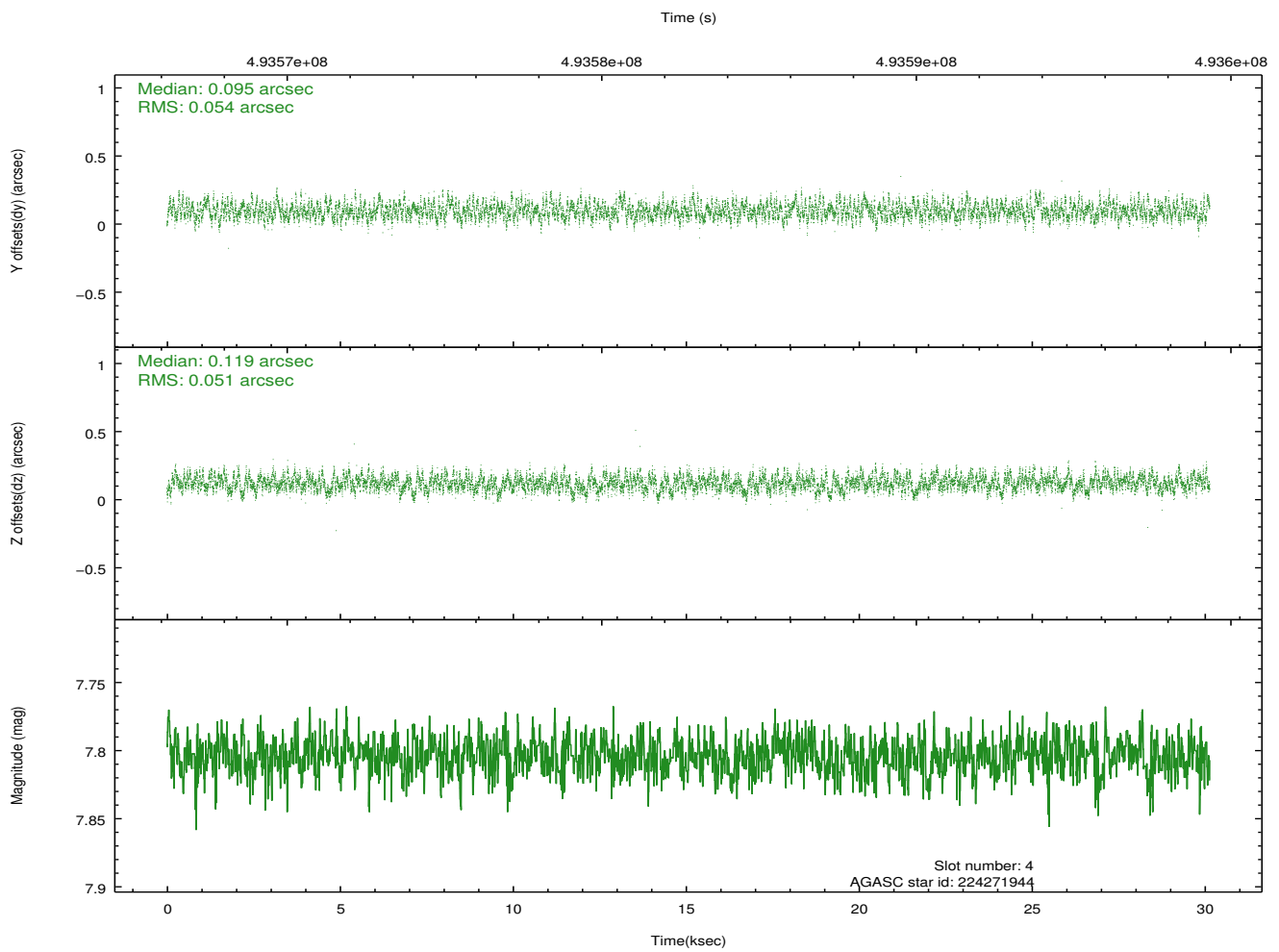
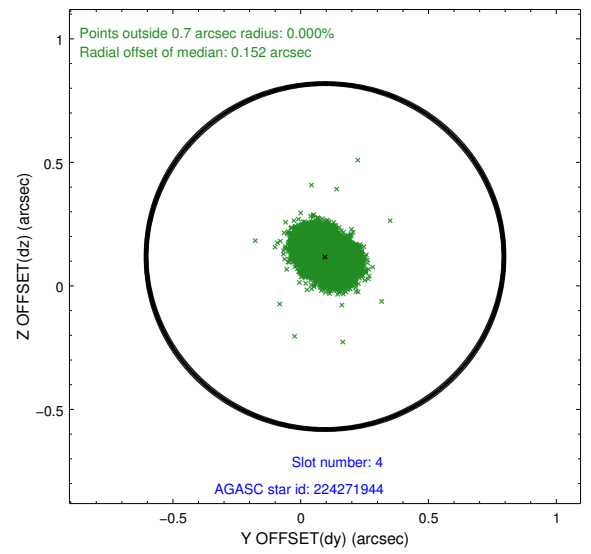
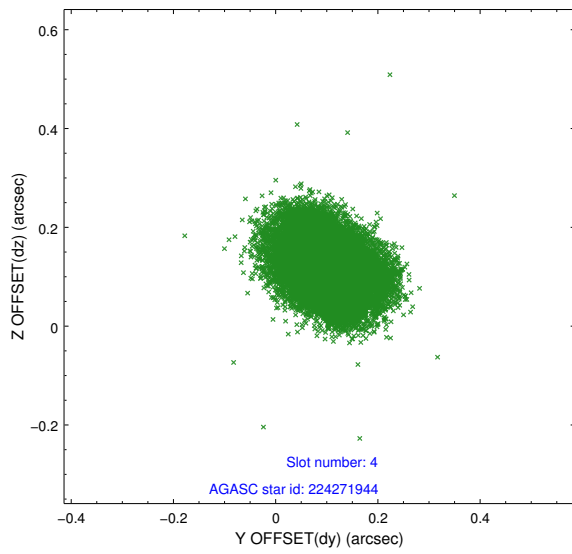
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2.4 Star Slots

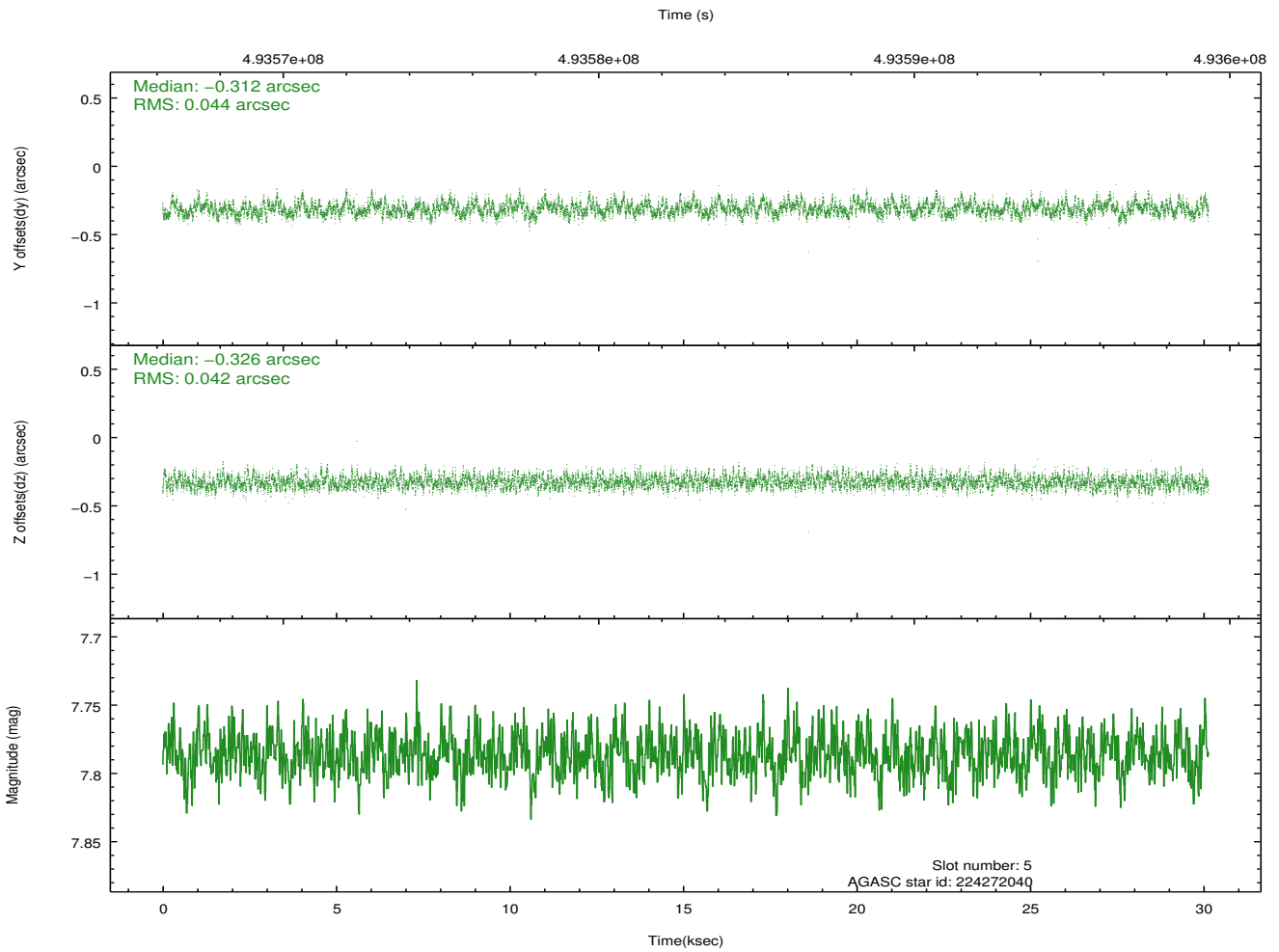
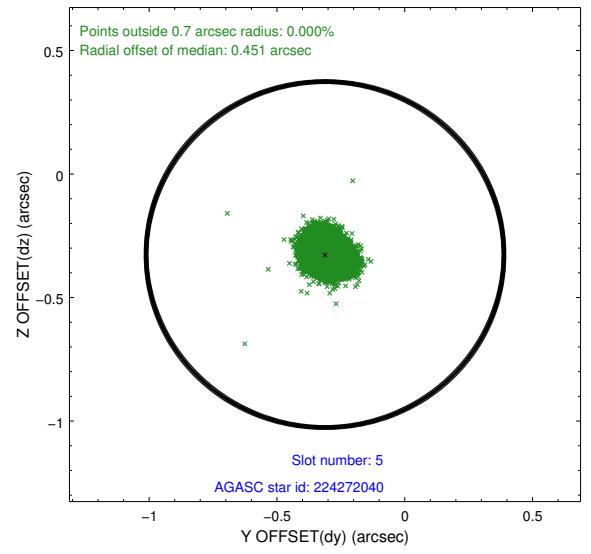
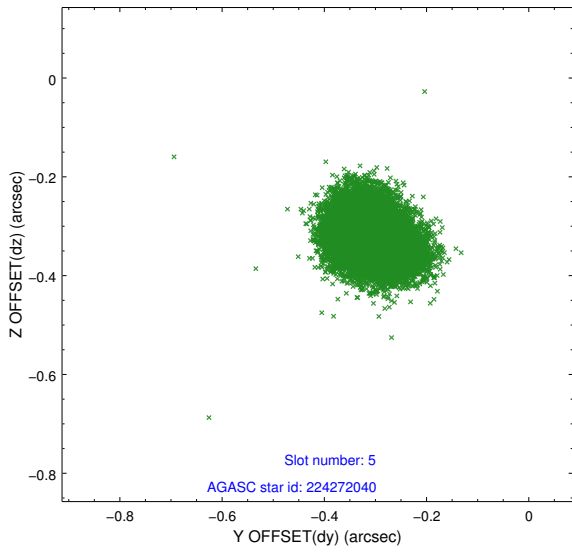
2.4.1 Slot 3



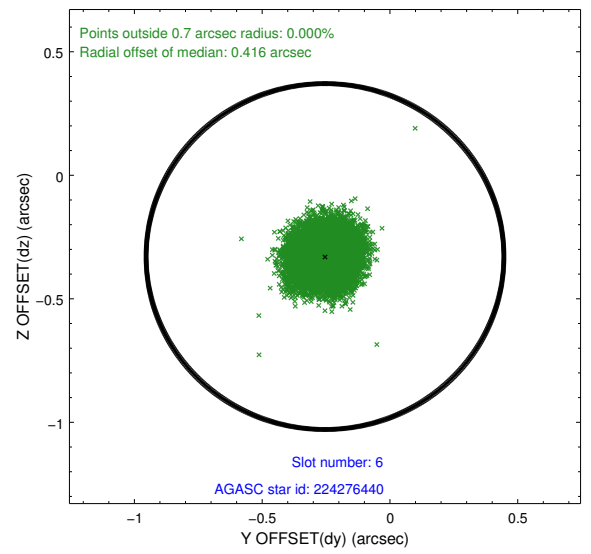
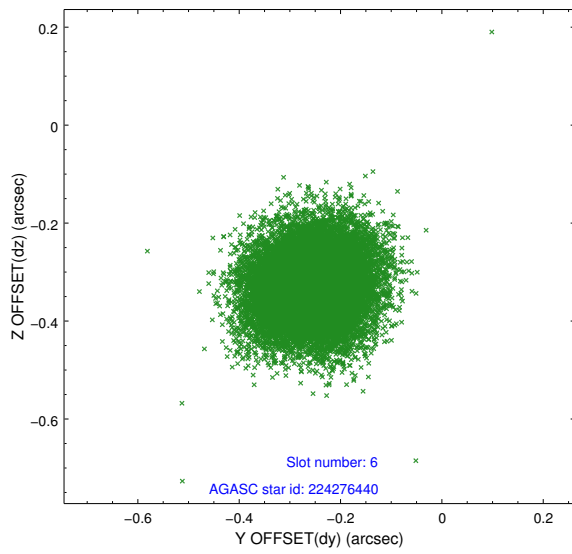
2.4.2 Slot 4



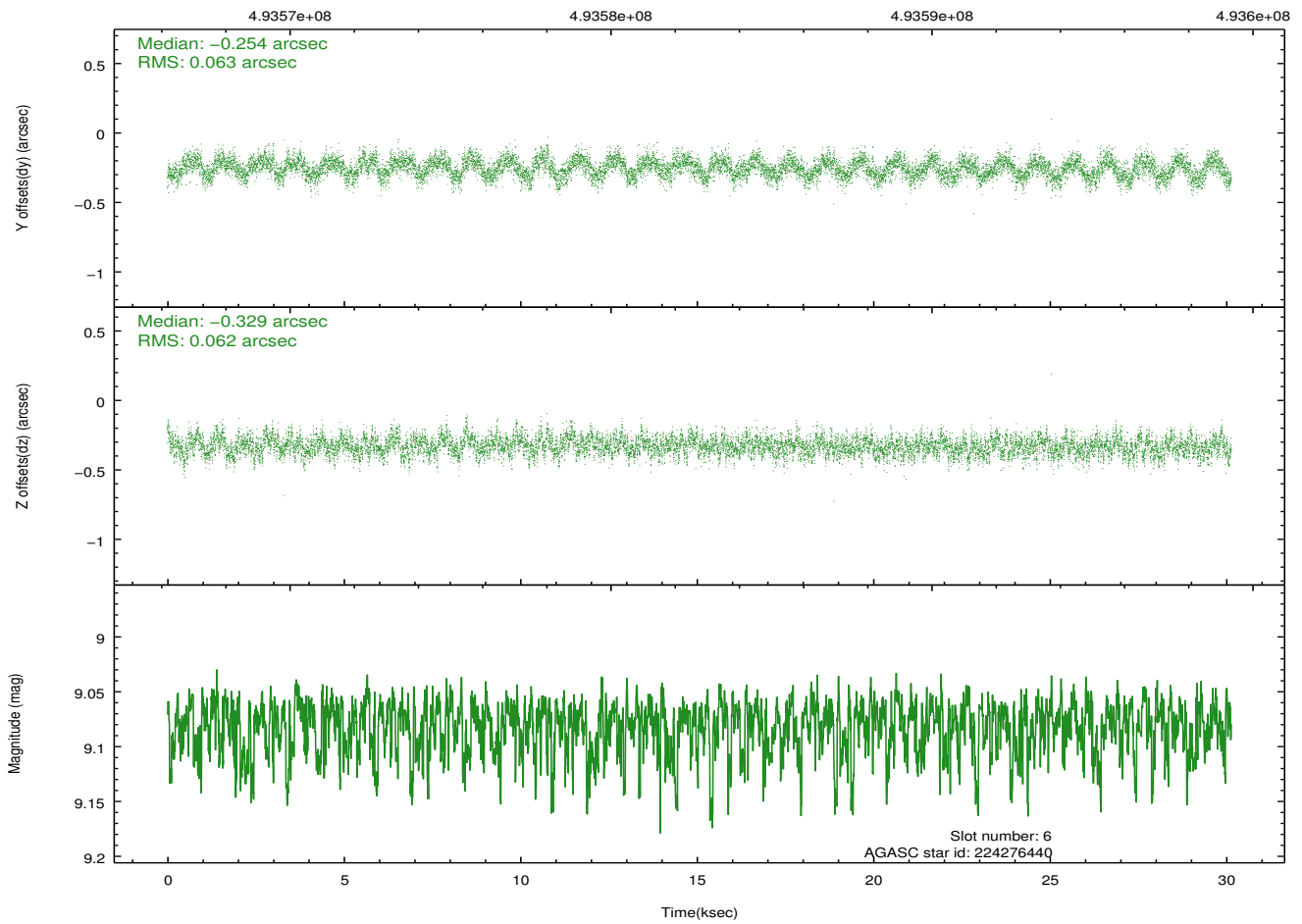
2.4.3 Slot 5



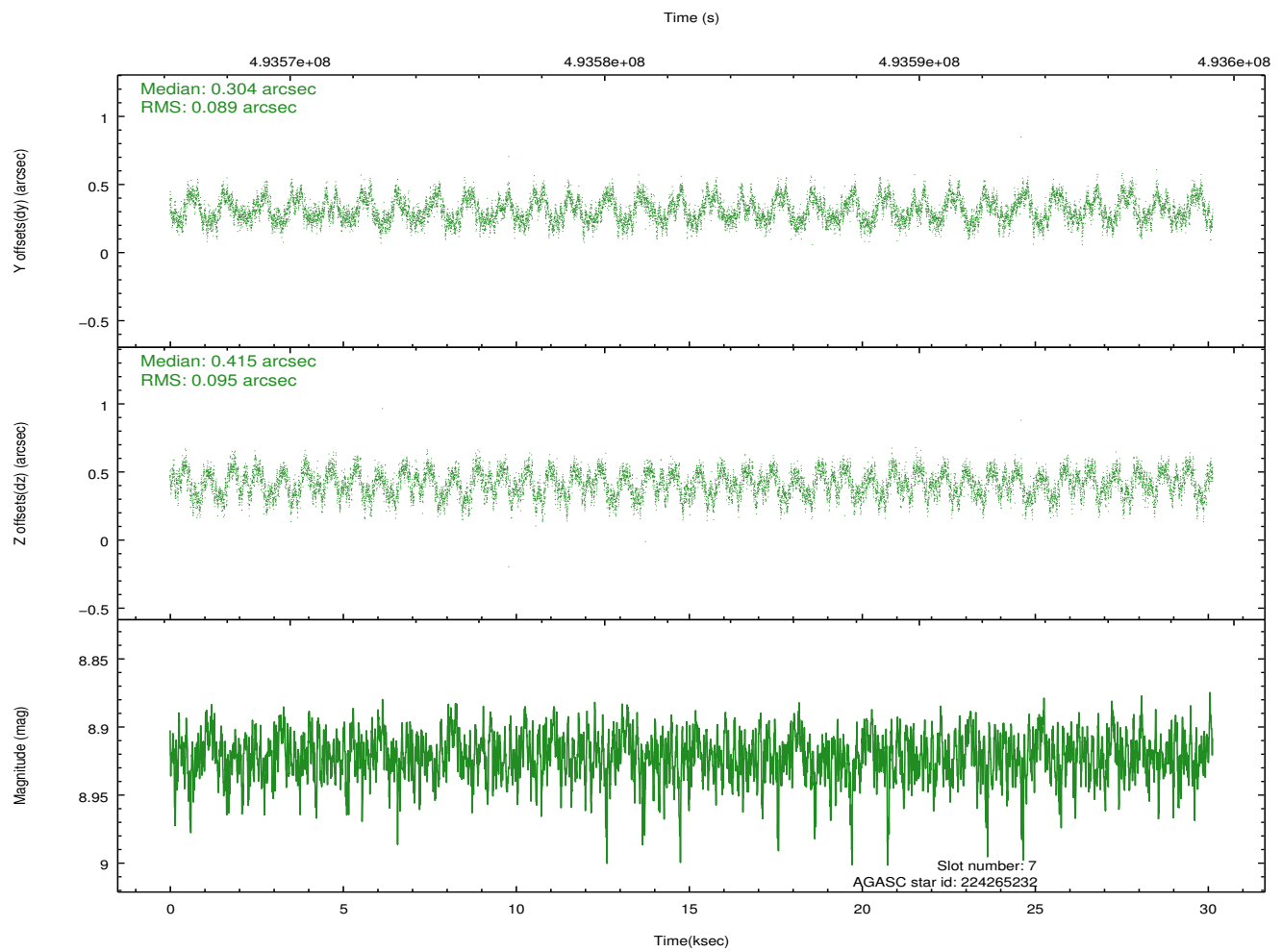
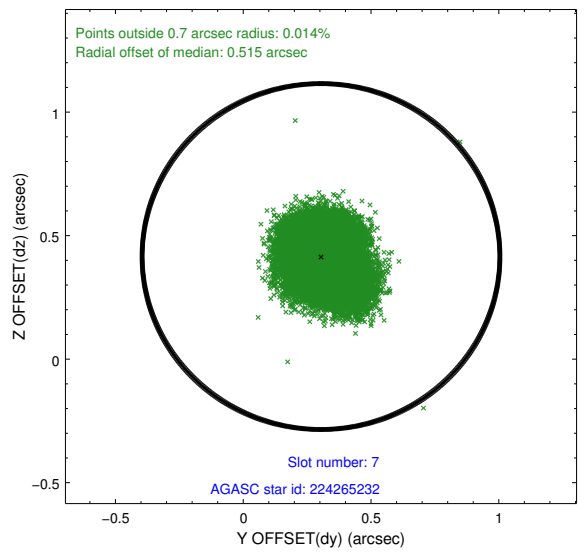
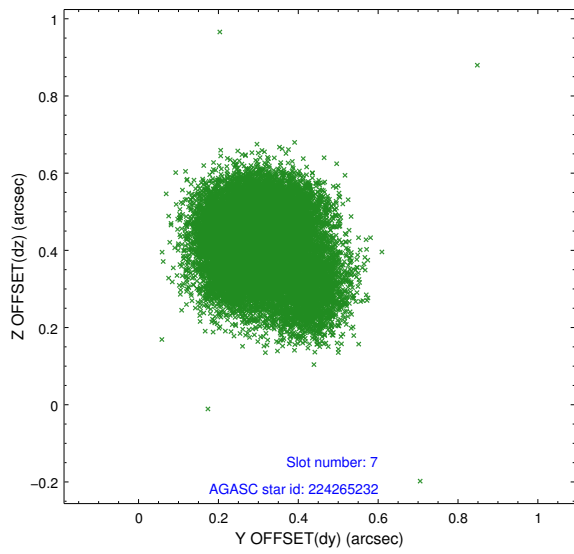
2.4.4 Slot 6



Time (s)

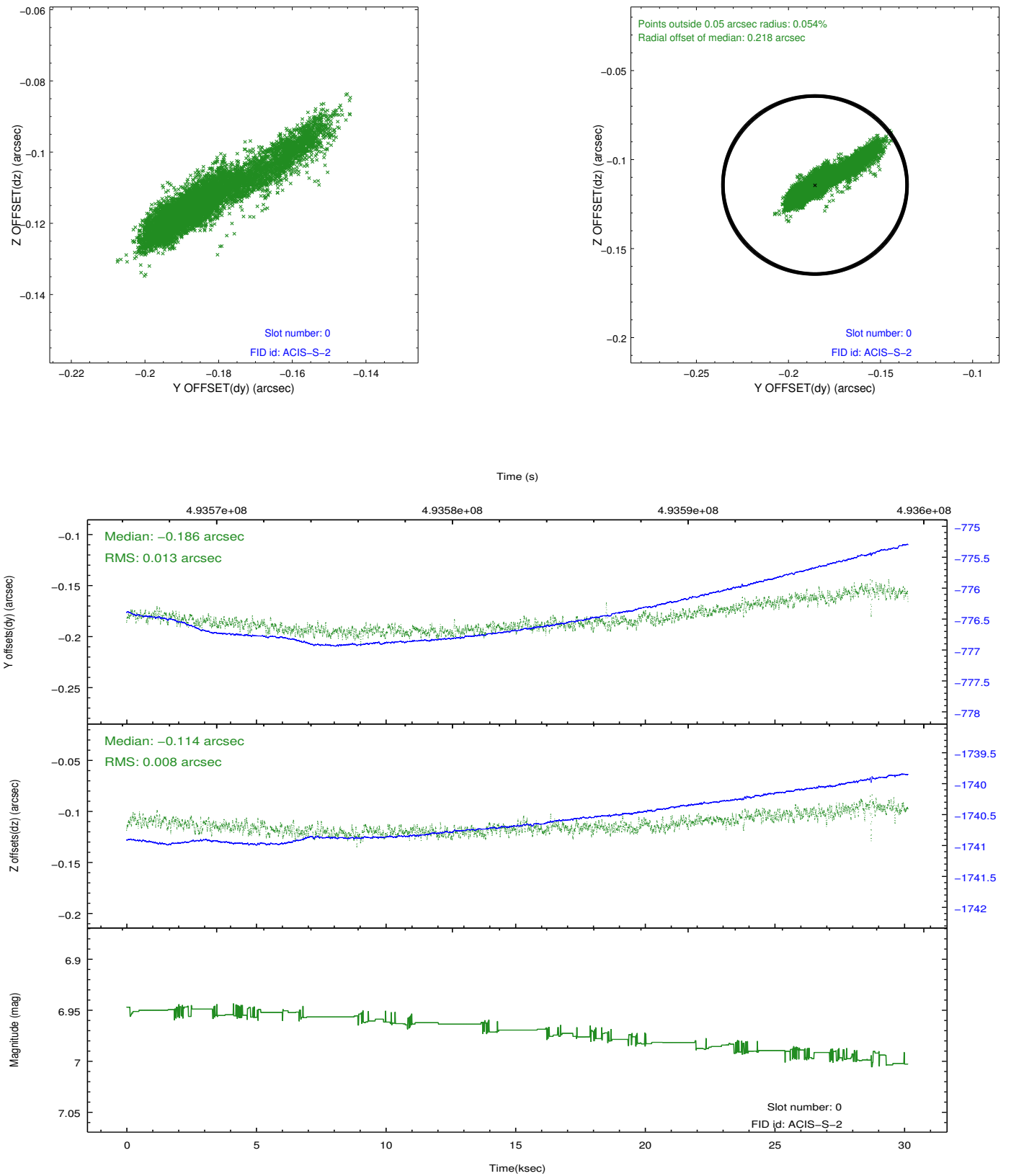


2.4.5 Slot 7

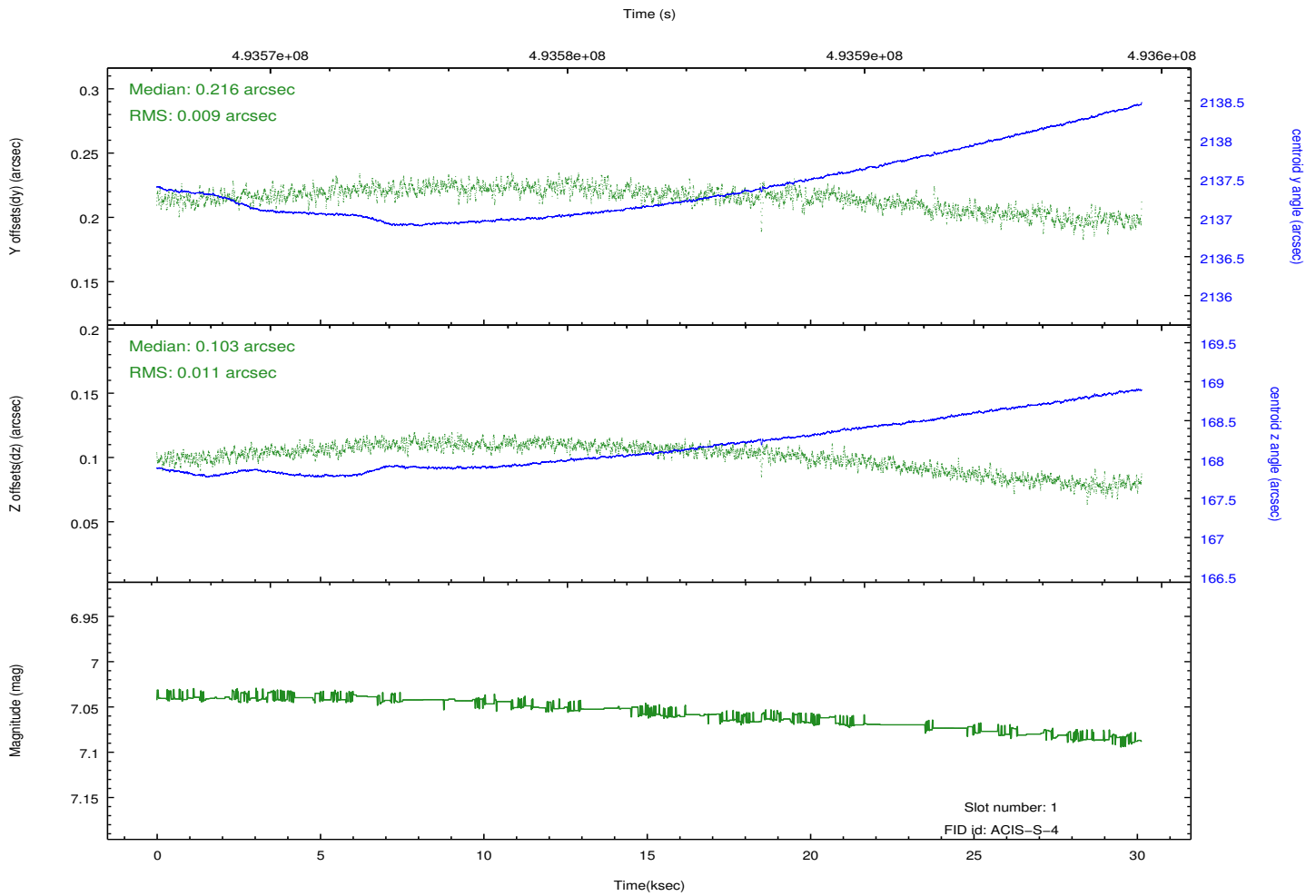
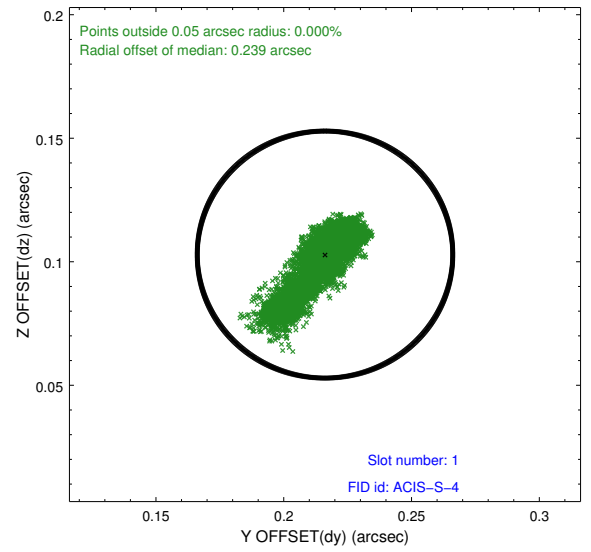
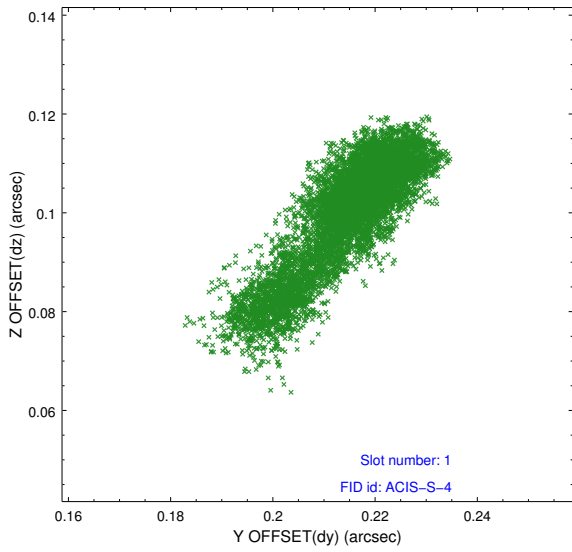


2.5 FID Slots

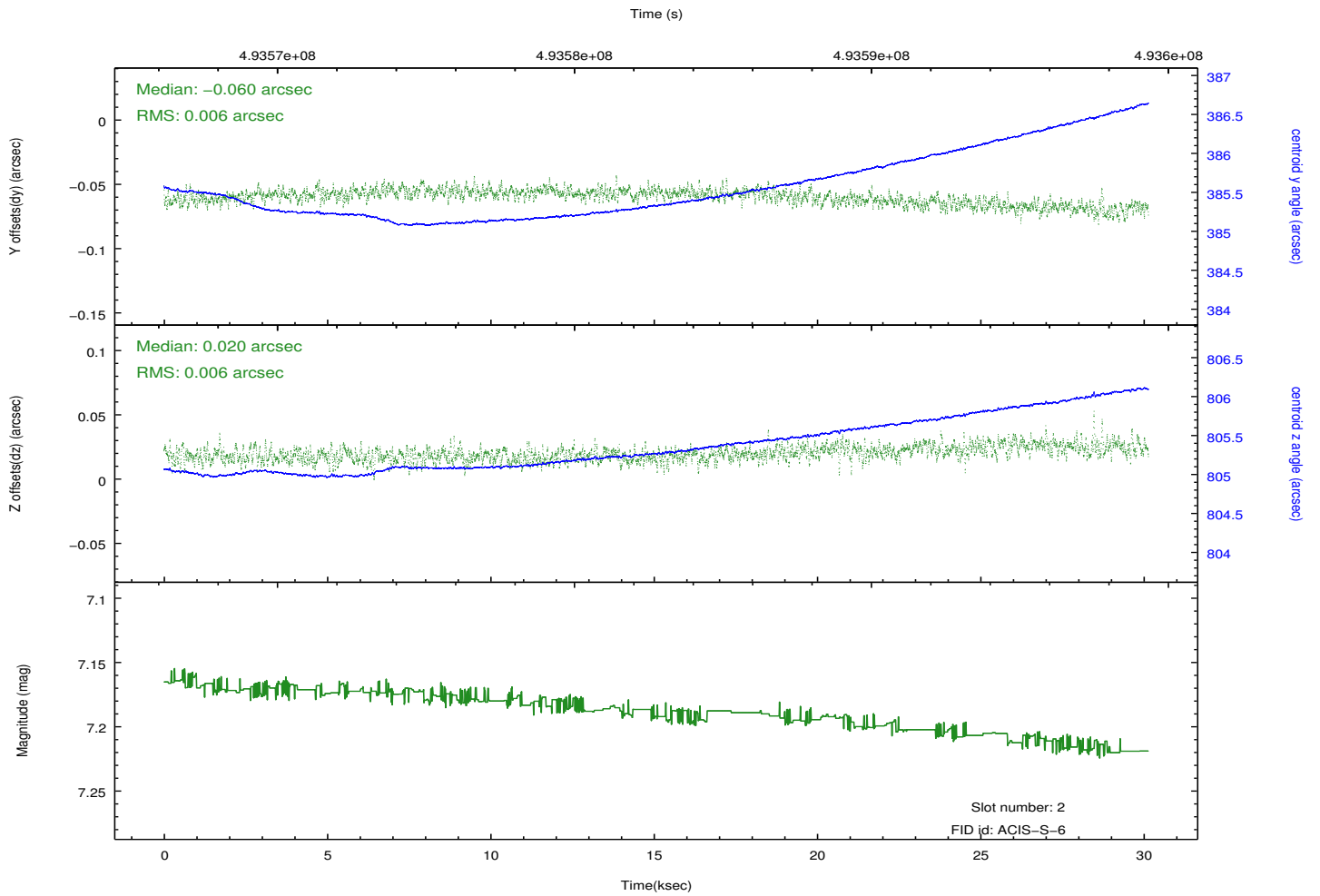
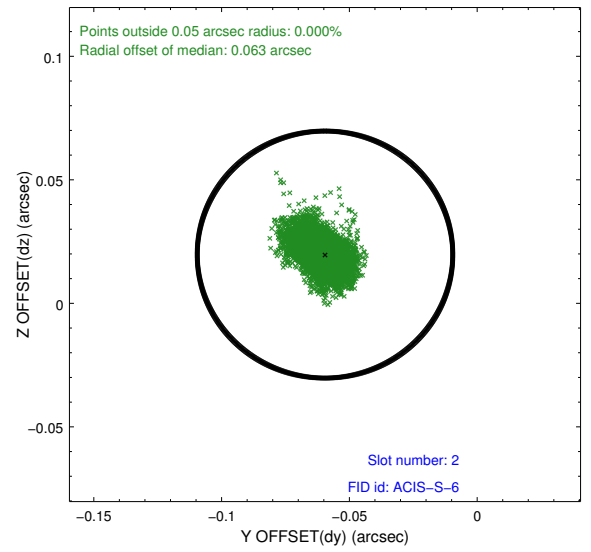
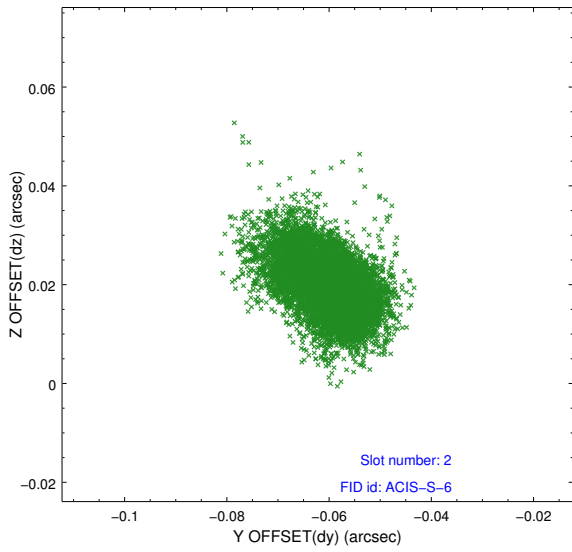
2.5.1 Slot 0



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	30.063800231218

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.