

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14594 - L2 Version 2
Chandra X-Ray Center

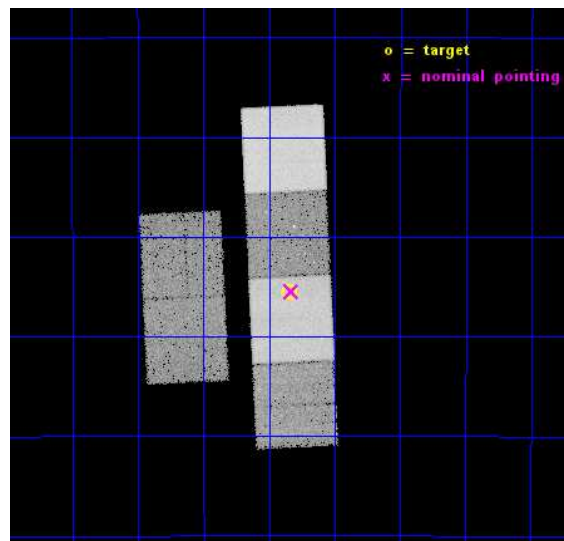
L2 Processing Date : Dec 1 2014

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1 Front

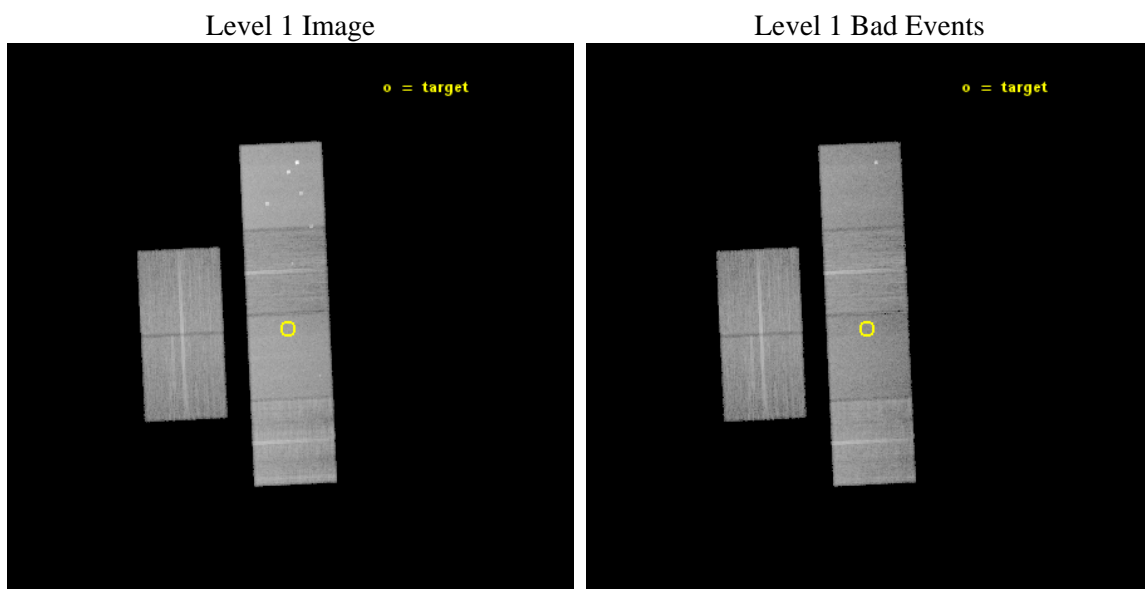
seq_num	200895	Sequence number
obs_id	14594	Observation id
title	COMPACT AND DIFFUSE X-RAY SOURCES IN THE YOUNGEST PLANETARY NEBULAE	
observer	Dr. Joel Kastner	Principal investigator
object	NGC 6369	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	262.335	Observer's specified target RA [deg]
dec_targ	-23.759667	Observer's specified target Dec [deg]
ra_nom	262.33228308653	Nominal RA [deg]
dec_nom	-23.757917334536	Nominal Dec [deg]
roll_nom	87.306583817188	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29964.286508799	Sum of GTIs [s]
livetime	29584.860670697	Livetime [s]
ontime2	29964.327548802	Sum of GTIs [s]
ontime3	29964.163388789	Sum of GTIs [s]
ontime5	29964.245468795	Sum of GTIs [s]
ontime6	29960.963458419	Sum of GTIs [s]
ontime7	29964.286508799	Sum of GTIs [s]
ontime8	29964.122348785	Sum of GTIs [s]
l2events	290451	Number of level 2 events



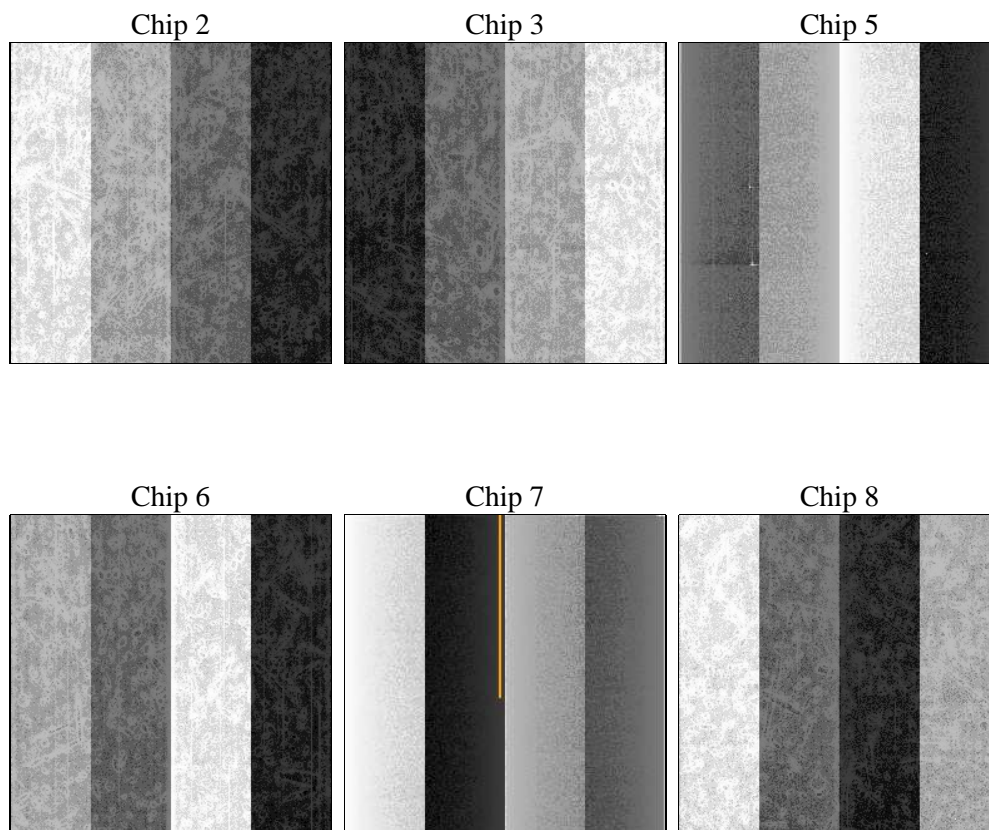
2 OBI

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	Processing system revision	ontime	29964.286508799	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	29964.327548802	Sum of GTIs [s]
date	2014-12-01T18:37:57	Date and time of file creation	ontime3	29964.163388789	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	29964.245468795	Sum of GTIs [s]
			ontime6	29960.963458419	Sum of GTIs [s]
			ontime7	29964.286508799	Sum of GTIs [s]
			ontime8	29964.122348785	Sum of GTIs [s]
			l1events	1205258	Number of level 1 events

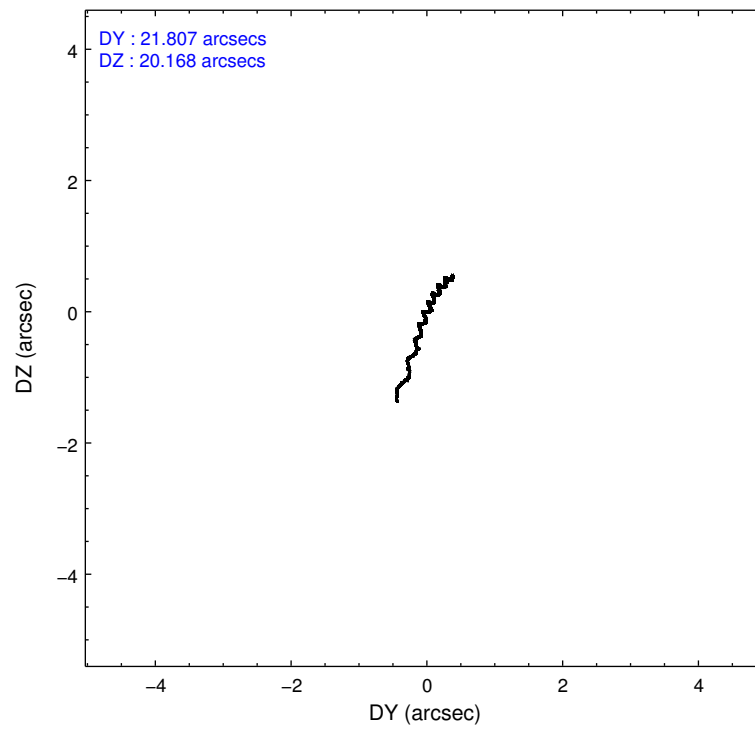
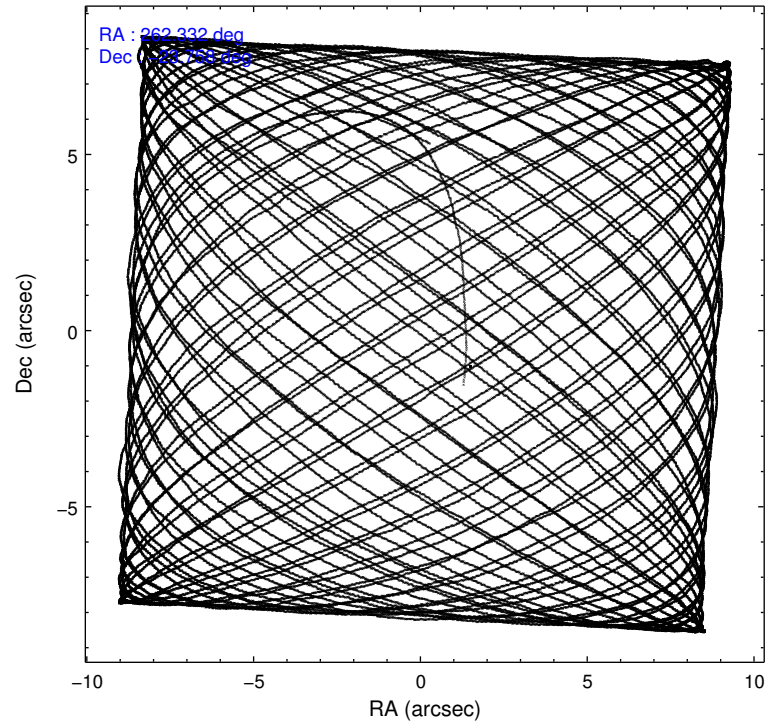
2.1.4 Events

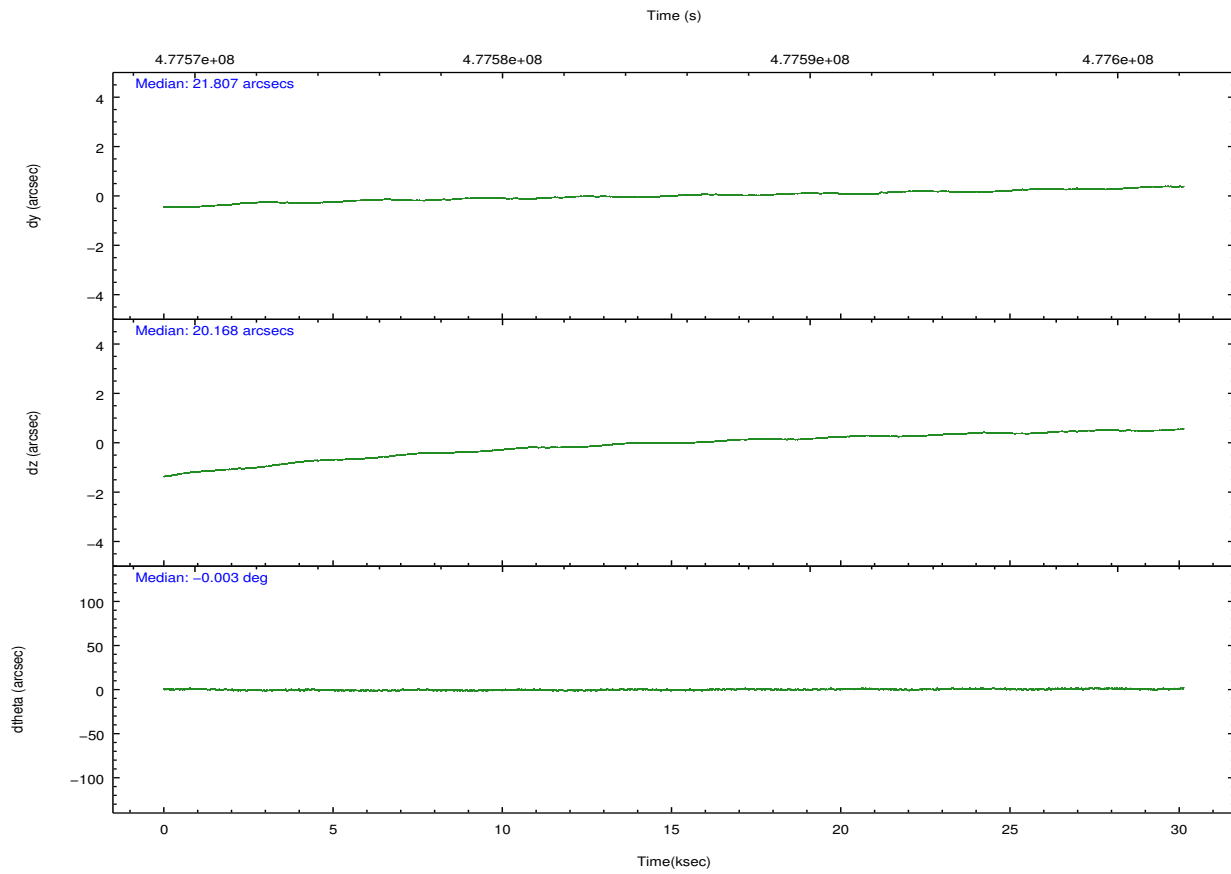
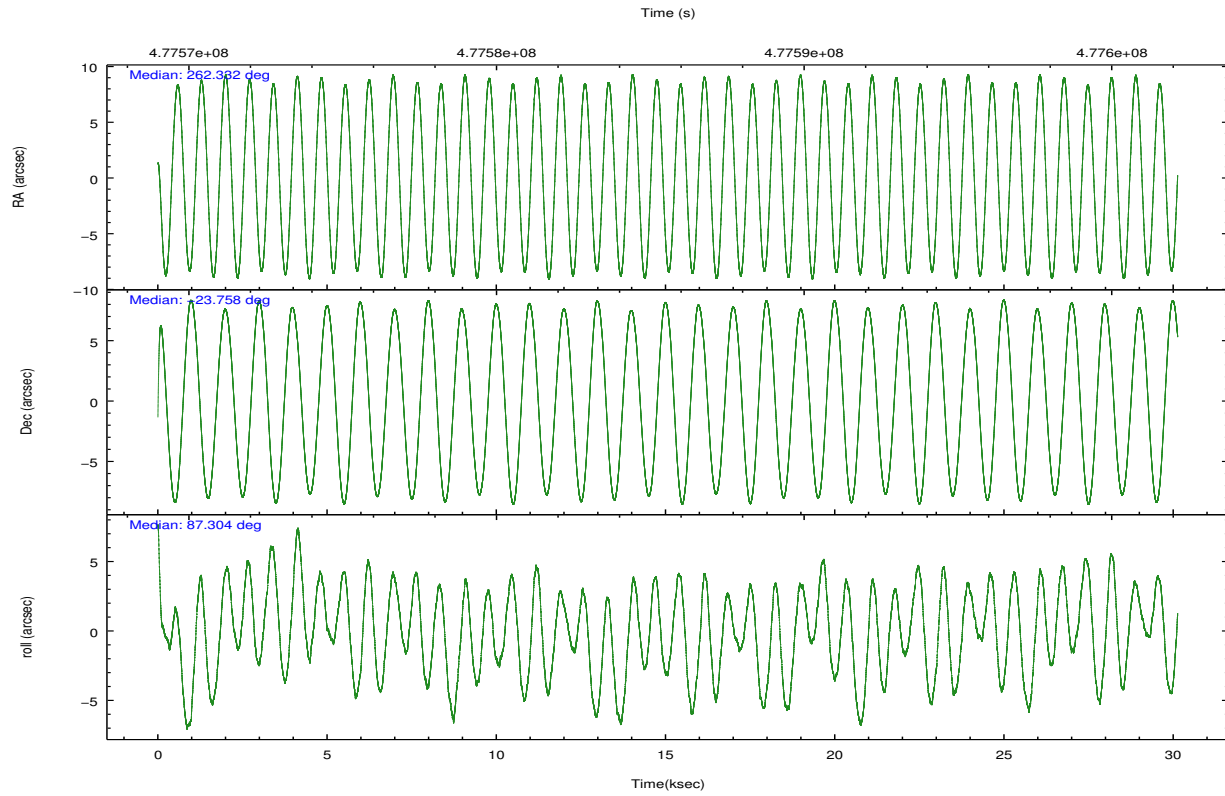
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	166114	152313	279196	168153	220208	219274	grade 0 events	6858	6557	17264	7324	8924	17725
rejected events	146896	134006	139545	147737	122872	159847		4%	4%	6%	4%	4%	8%
rejected %	88%	87%	49%	87%	55%	72%	grade 1 events	108	109	641	87	266	162
								0%	0%	0%	0%	0%	0%
							grade 2 events	4739	4064	42509	4532	19971	13978
								2%	2%	15%	2%	9%	6%
							grade 3 events	1887	1905	4816	2089	8464	5928
								1%	1%	1%	1%	3%	2%
							grade 4 events	1997	2006	4539	2043	8366	5633
								1%	1%	1%	1%	3%	2%
							grade 5 events	7197	8410	20272	8414	22701	12123
								4%	5%	7%	5%	10%	5%
							grade 6 events	3745	3779	70559	4429	51634	16171
								2%	2%	25%	2%	23%	7%
							grade 7 events	139583	125483	118596	139235	99882	147554
								84%	82%	42%	82%	45%	67%

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	262.346366	262.3322830865316	CCD I2 on	O3	Y
[deg] Pointing Dec	-23.782045	-23.7579173345357	CCD I3 on	O2	Y
[deg] Pointing Roll	87.155635	87.30658381718821	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	477570630.184000	477569092.09204	CCD S5 on	N	N
Observation start date	2013-02-18T10:29:23	2013-02-18T10:04:52	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	477600630.184000	477601258.64376	On-chip summing requested	N	N
Observation end date	2013-02-18T18:49:23	2013-02-18T19:00:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





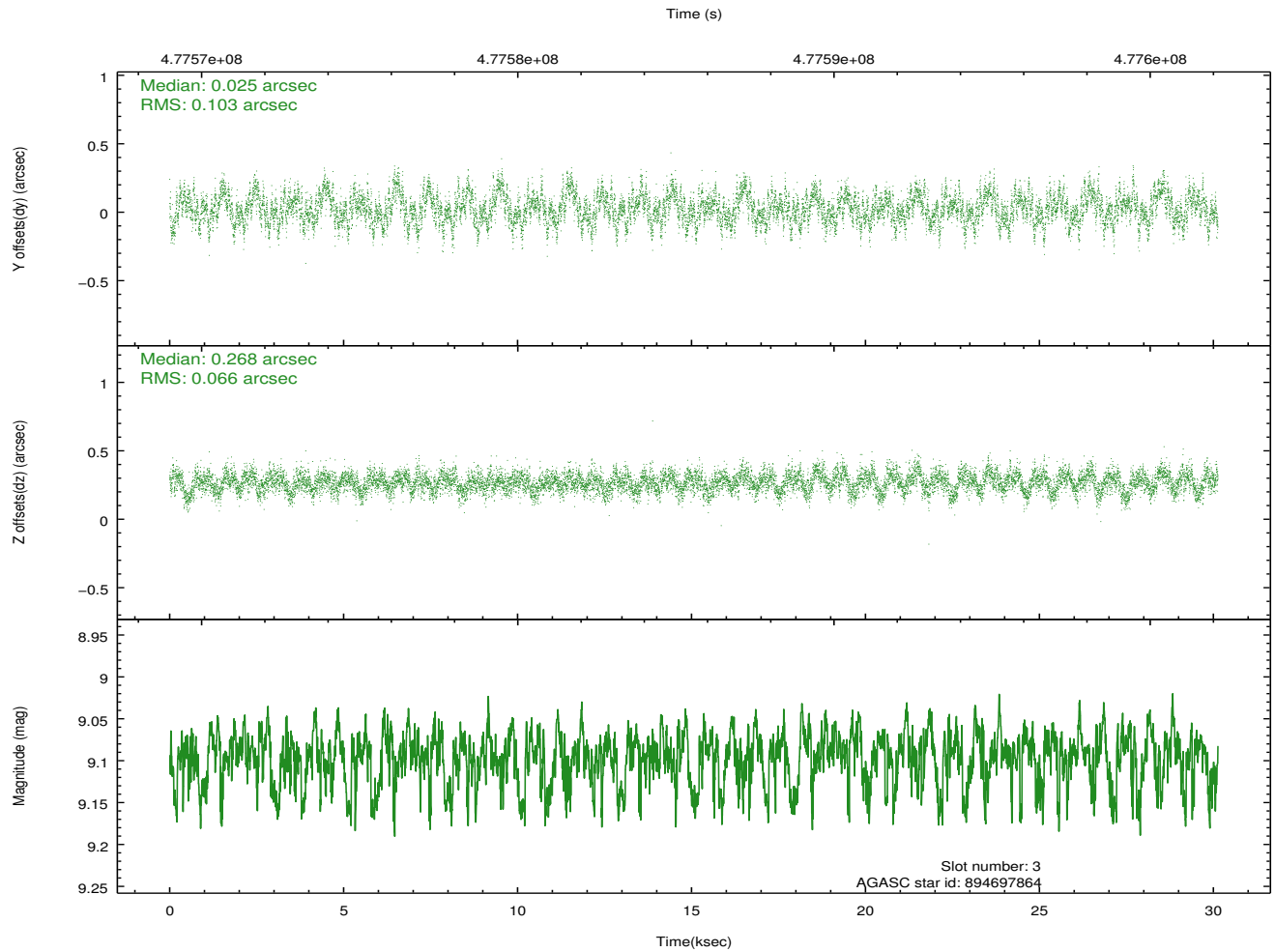
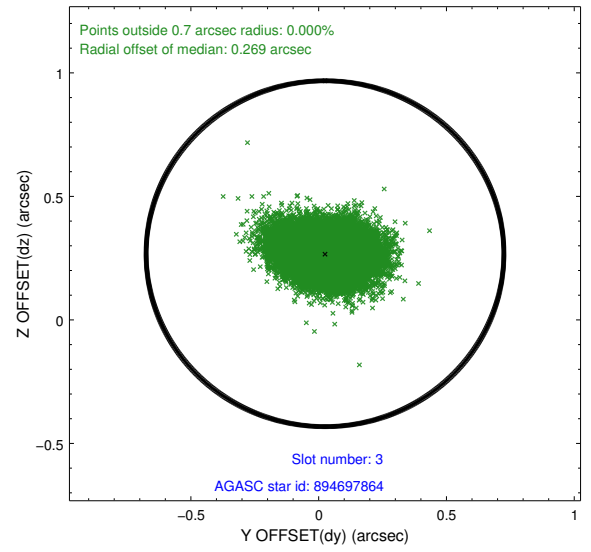
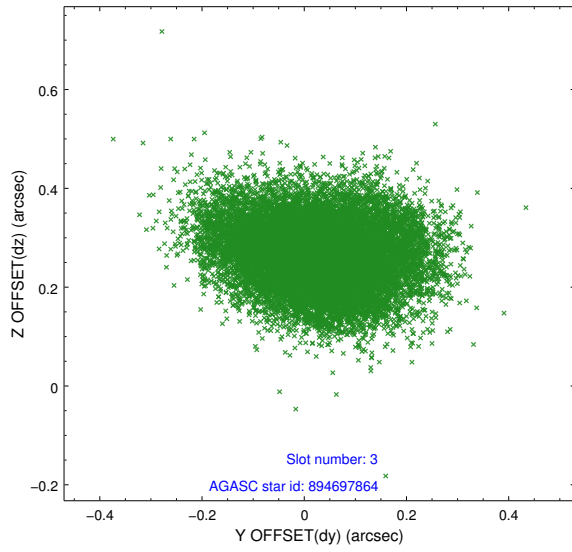
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	7349	-0.124	-0.075	0.008	0.014	0.000000	0.000000	-775.12	-1741.57
1	FID		ACIS-S-4	7.02	7349	0.160	0.061	0.009	0.014	0.000000	0.000000	2138.45	166.91
2	FID		ACIS-S-6	7.15	7349	-0.064	0.022	0.008	0.015	0.000000	0.000000	387.06	804.38
3	GUIDE	used	894697864	9.09	14655	0.025	0.268	0.130	0.213	262.762573	-23.175237	2248.56	-1267.06
4	GUIDE	used	894699328	8.47	14689	0.576	-0.007	0.077	0.122	262.250837	-24.336467	-2008.34	213.88
5	GUIDE	used	894699488	8.91	14644	-0.247	-0.232	0.102	0.153	262.030879	-23.241817	1889.37	1138.74
6	GUIDE	used	894699720	7.19	14698	-0.167	0.238	0.070	0.117	262.803830	-23.658801	515.88	-1484.29
7	GUIDE	used	894699224	7.33	14696	-0.190	-0.265	0.062	0.104	262.216203	-23.441916	1201.22	489.98

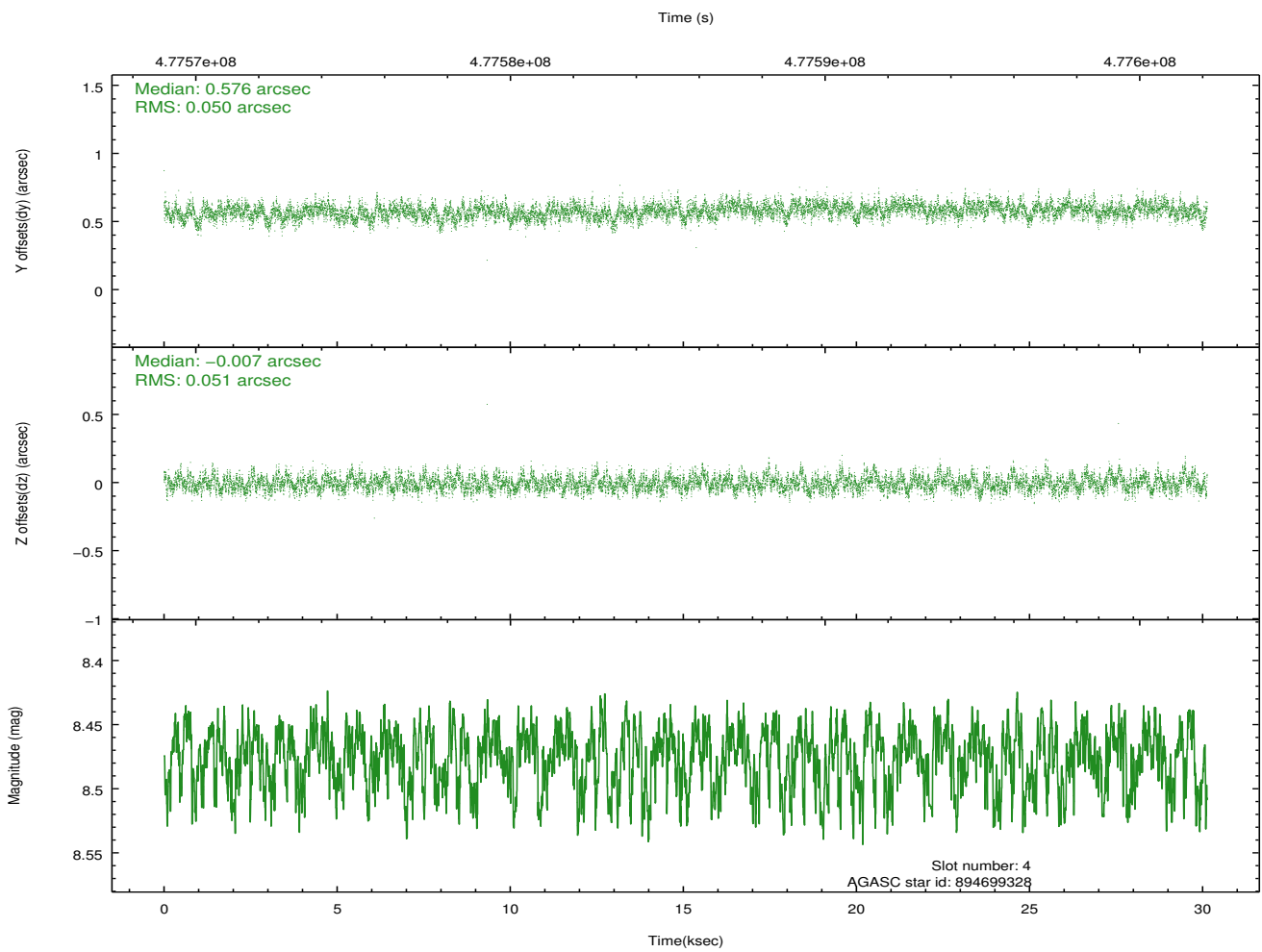
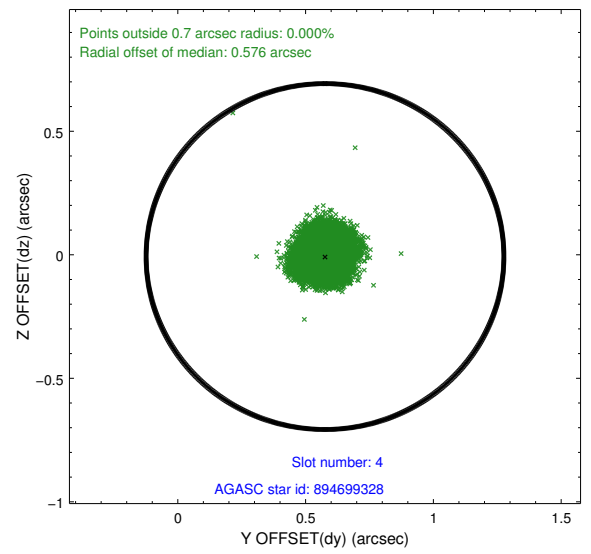
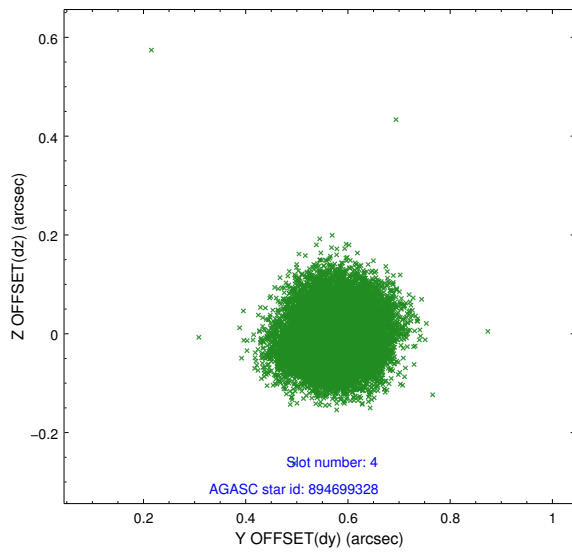
∞

2.4 Star Slots

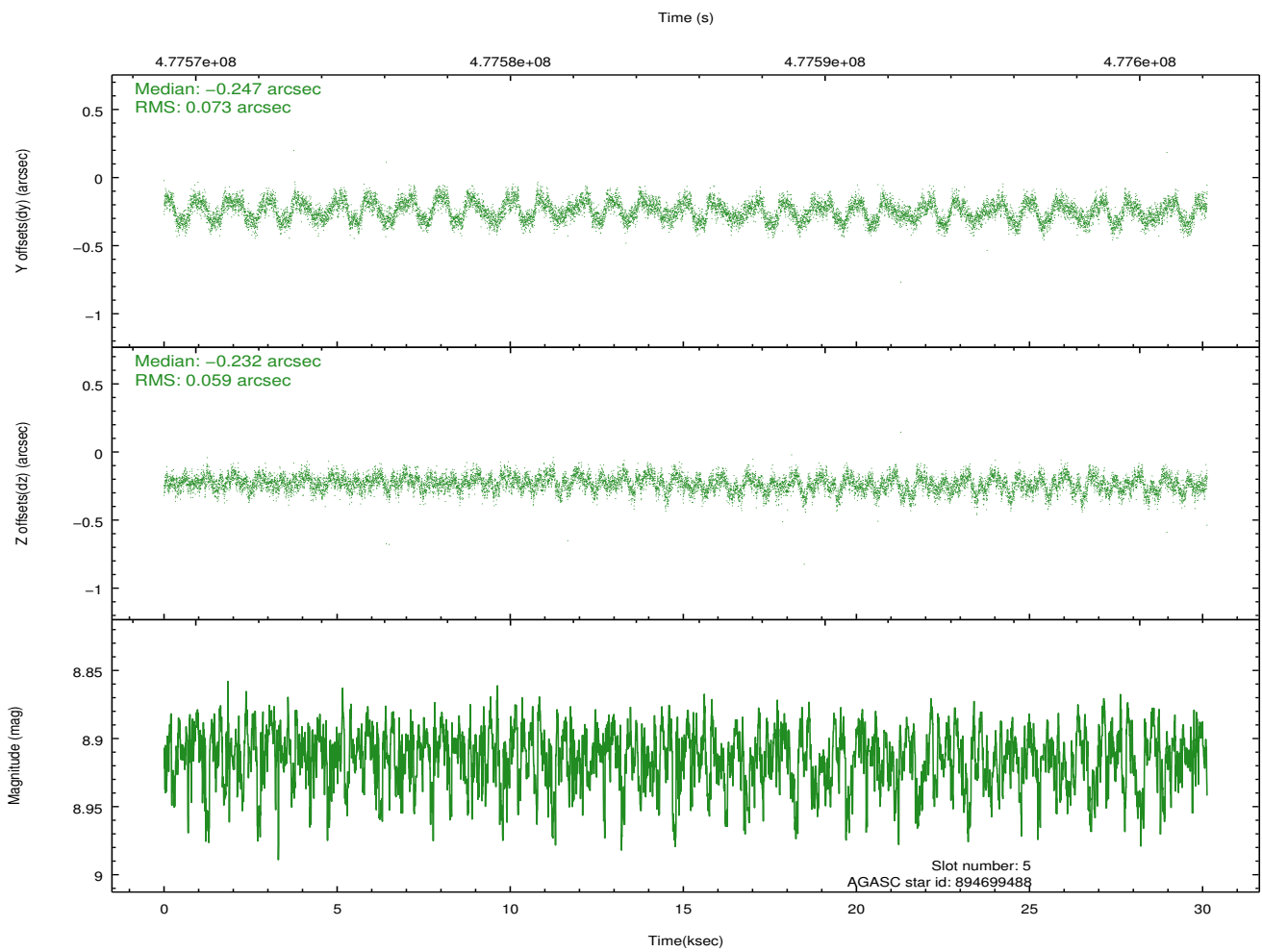
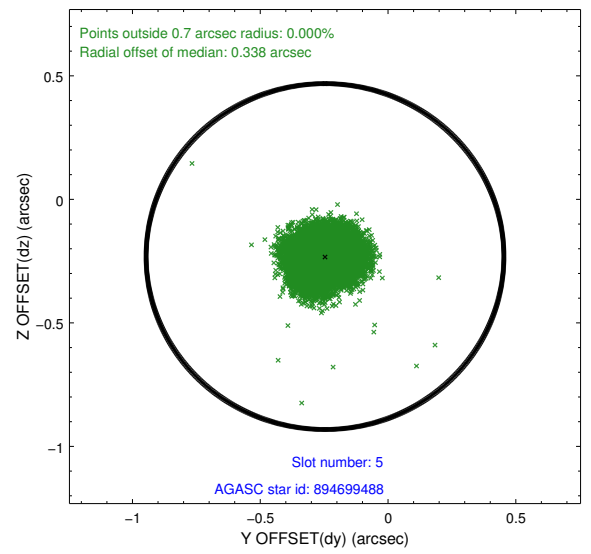
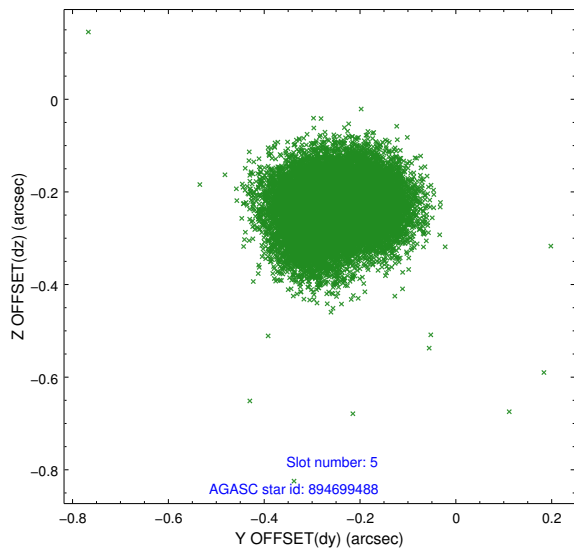
2.4.1 Slot 3



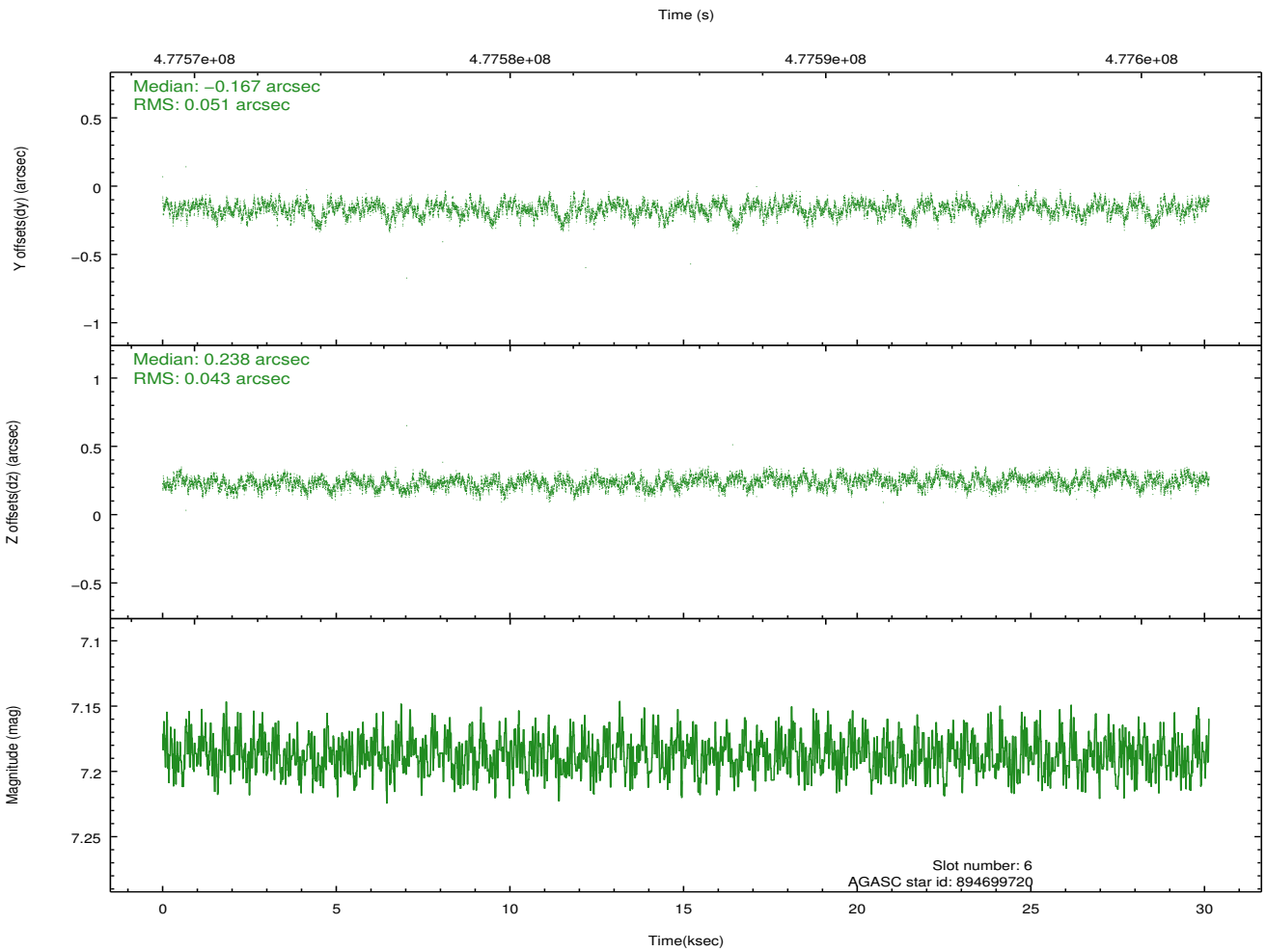
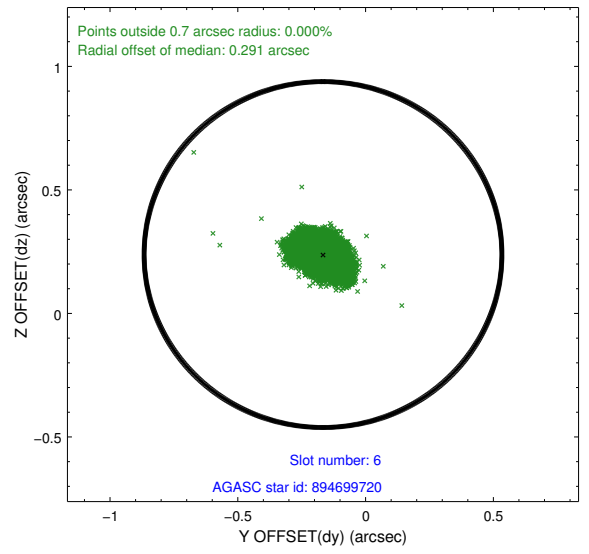
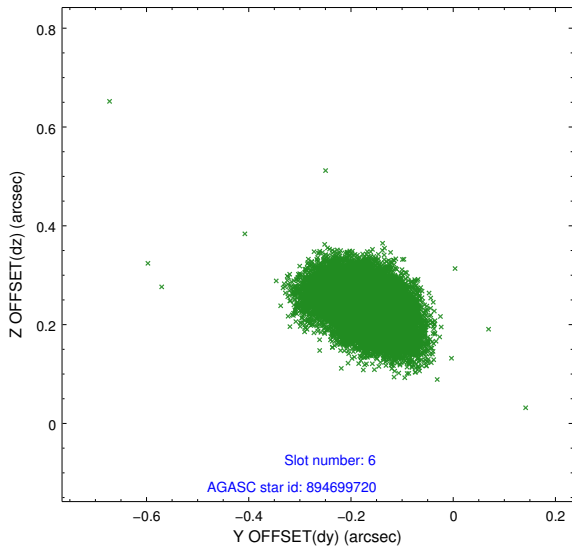
2.4.2 Slot 4



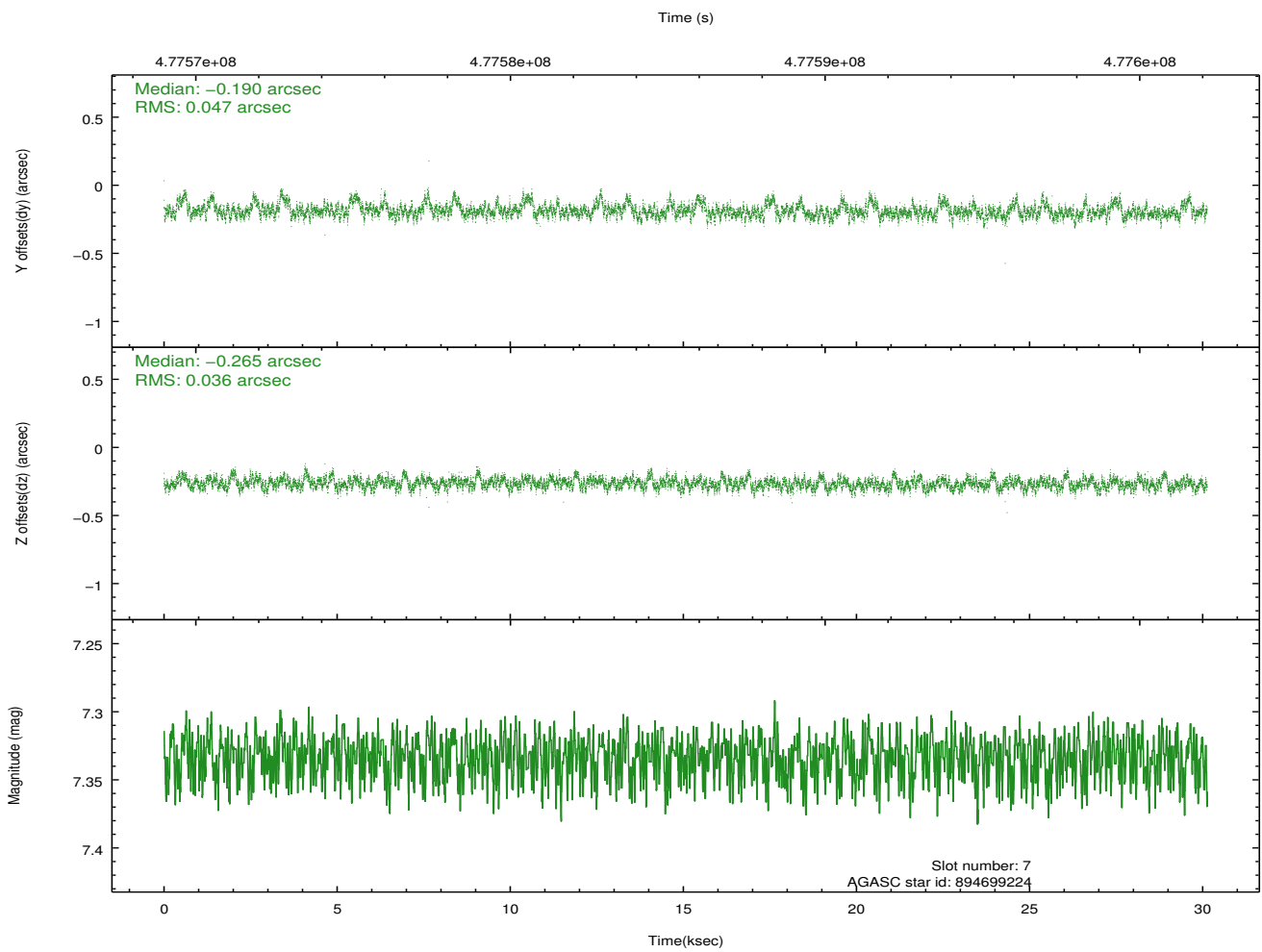
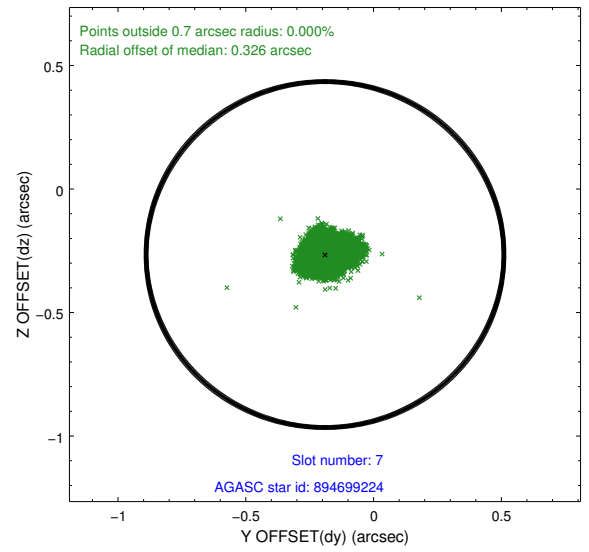
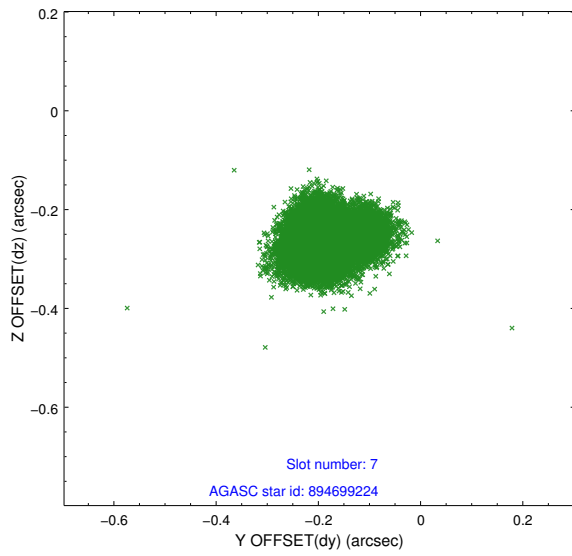
2.4.3 Slot 5



2.4.4 Slot 6

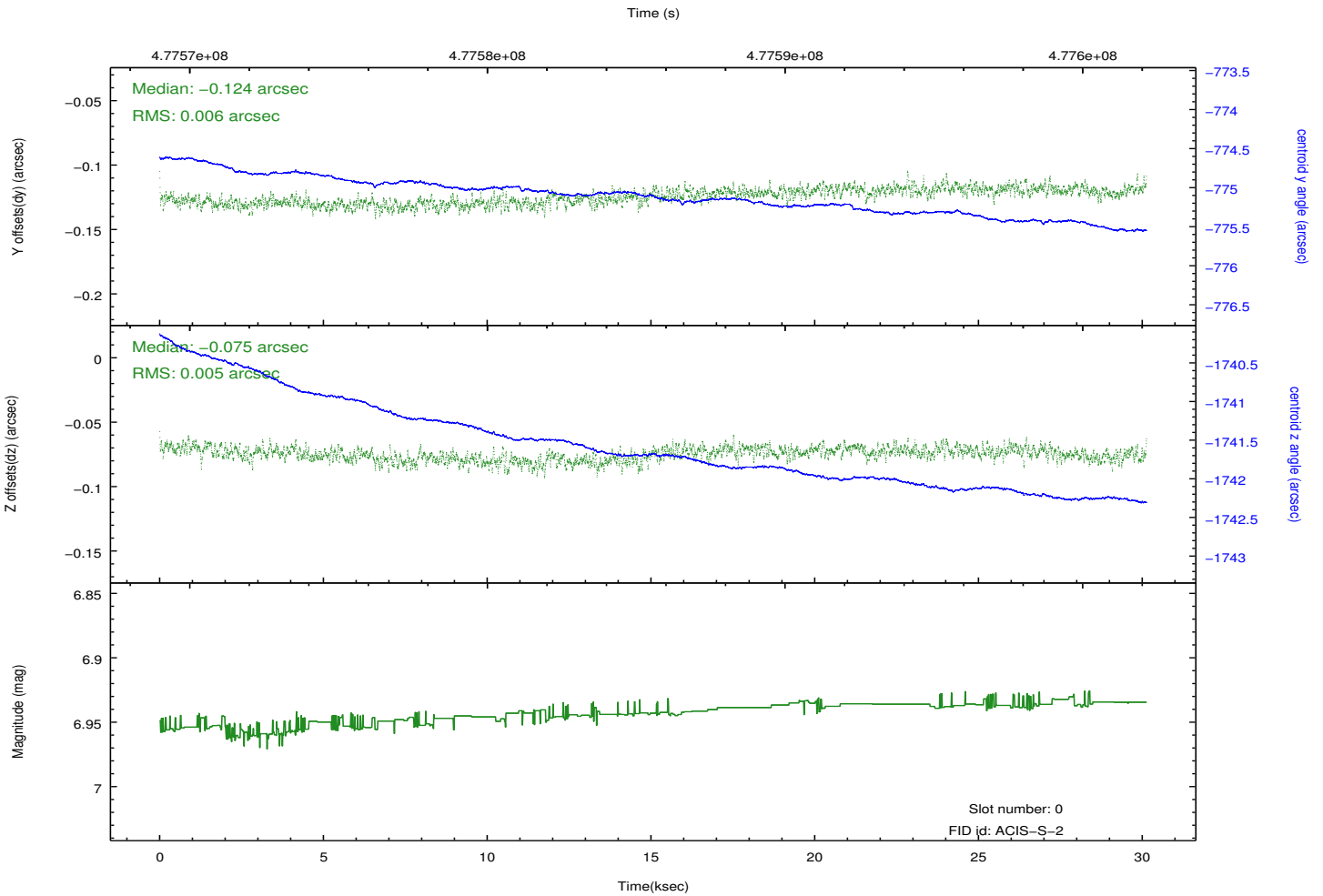
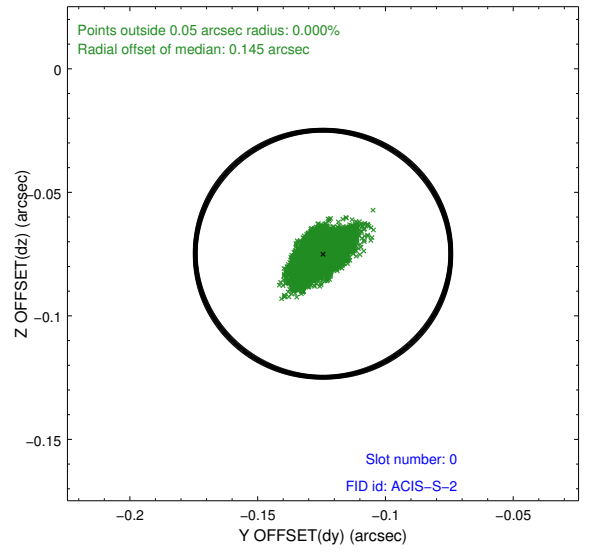
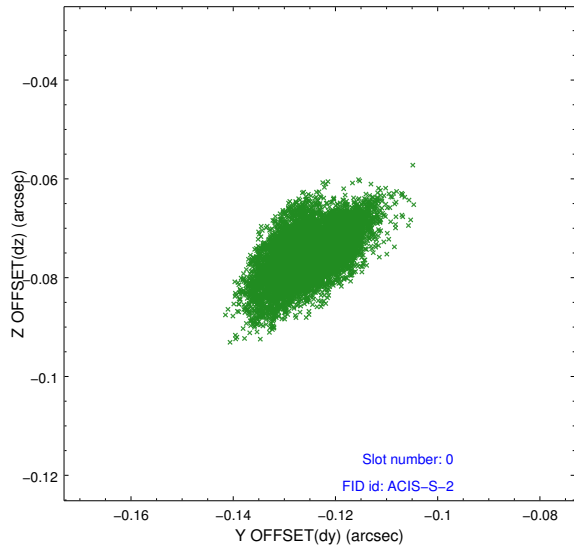


2.4.5 Slot 7

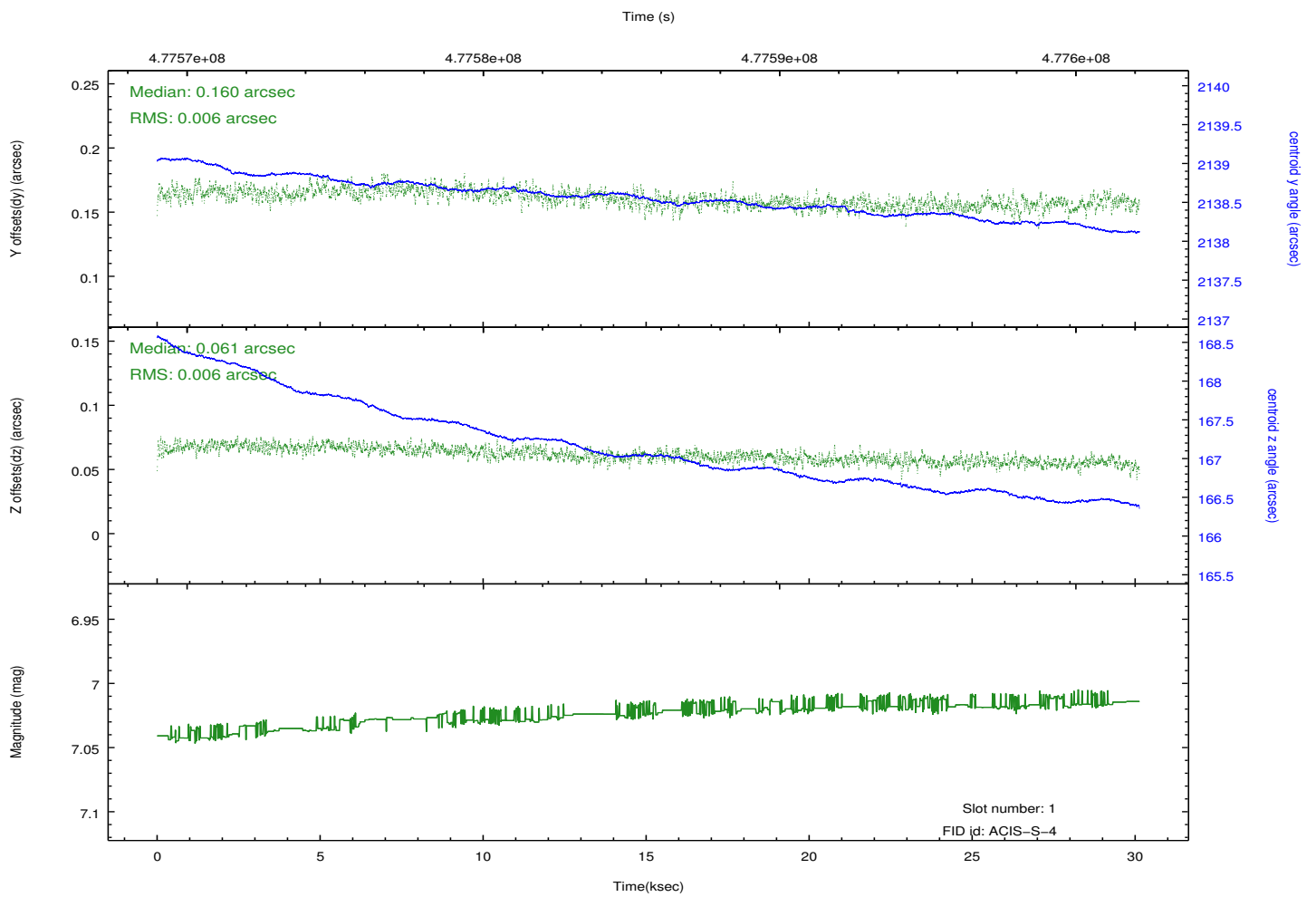
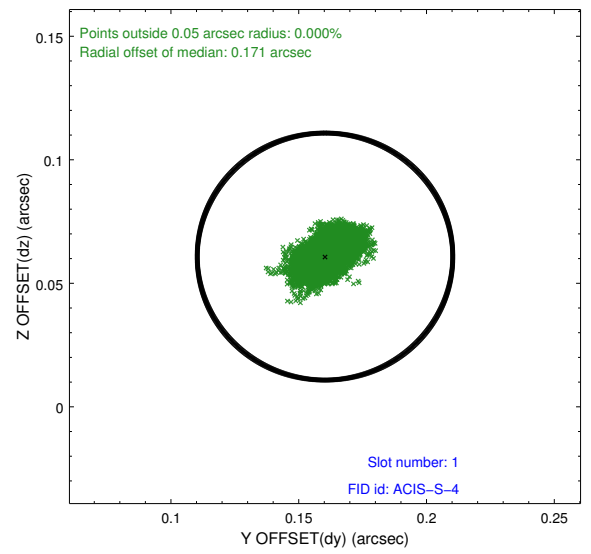
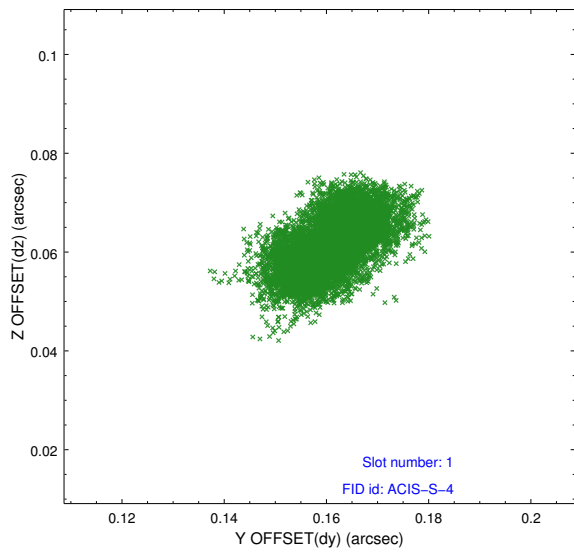


2.5 FID Slots

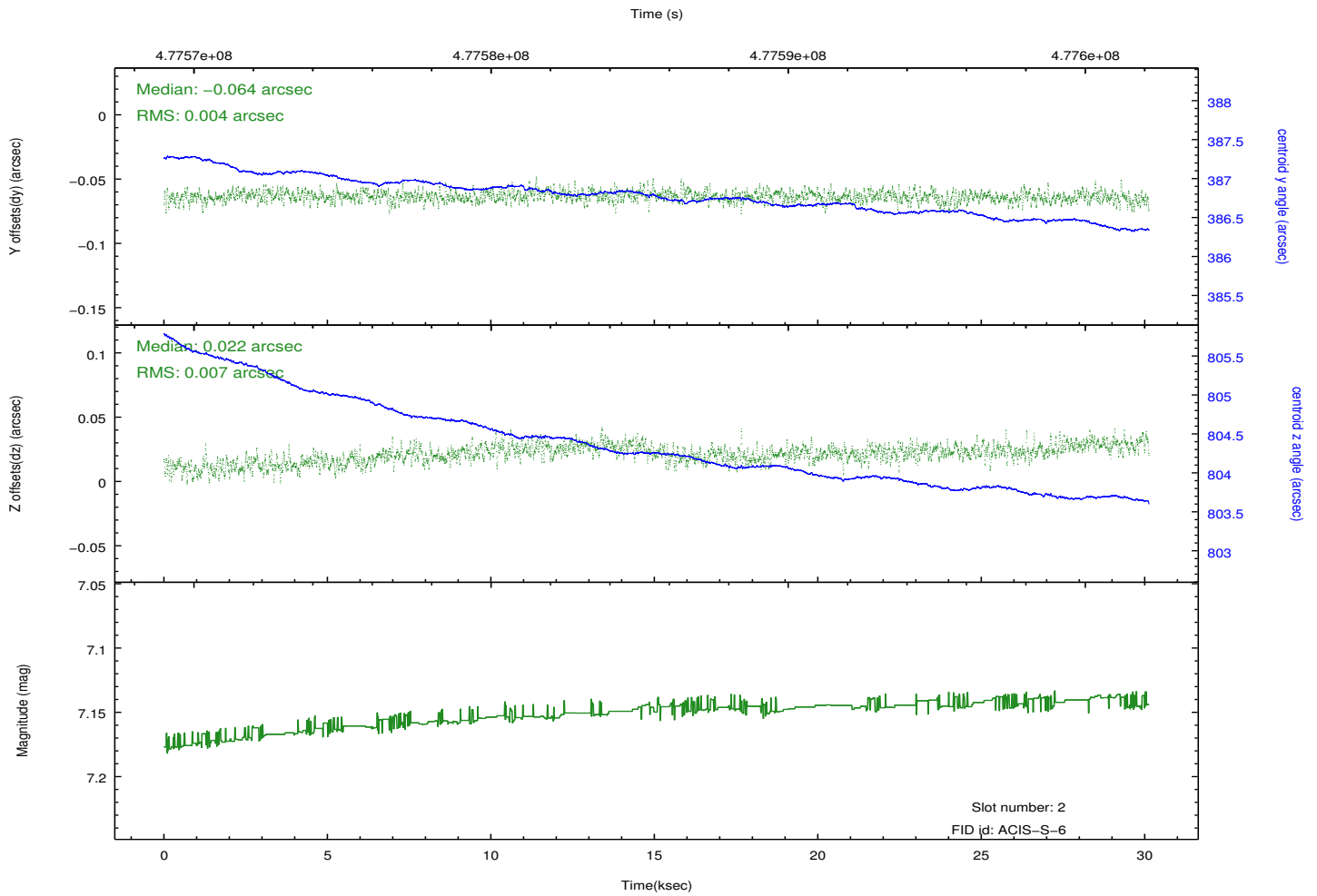
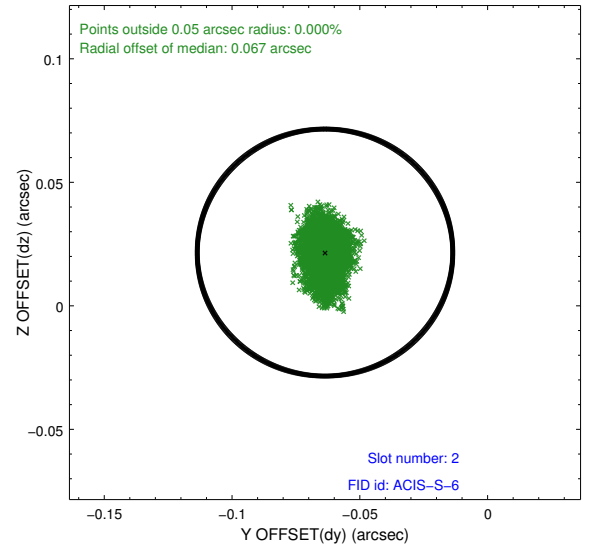
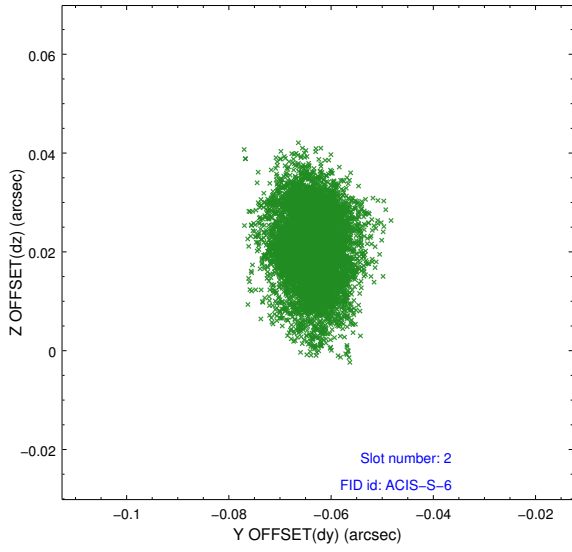
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.964286508799

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.