

V&V Reference Report

L2 ASCDS Version : 10.0.1

Observation 14925 - L2 Version 2
Chandra X-Ray Center

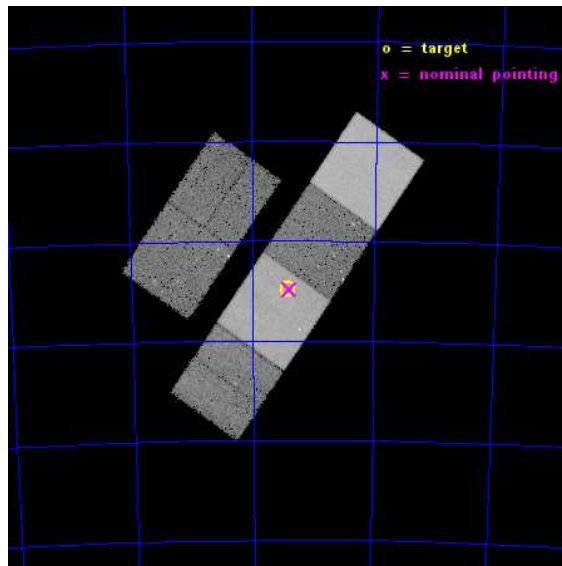
L2 Processing Date : Dec 6 2014

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1 Front

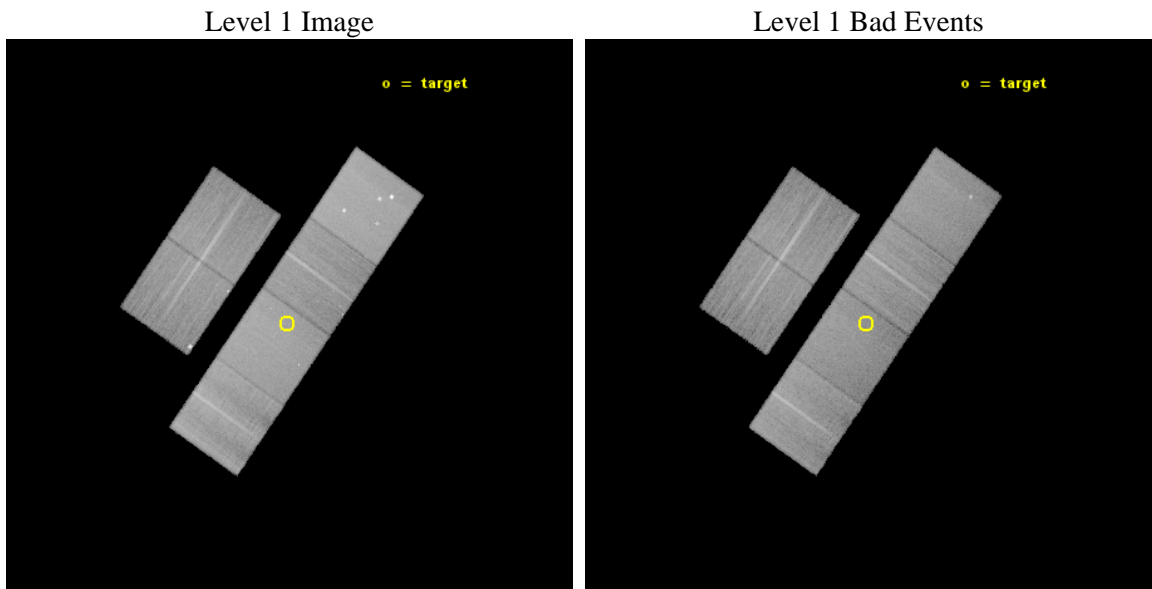
seq_num	601055	Sequence number
obs_id	14925	Observation id
title	Ring galaxies as the cradle of ULXs	Proposal title
observer	Dr Anna Wolter	Principal investigator
object	AM 0642-801	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	99.64	Observer's specified target RA [deg]
dec_targ	-80.247778	Observer's specified target Dec [deg]
ra_nom	99.622141206794	Nominal RA [deg]
dec_nom	-80.247906725969	Nominal Dec [deg]
roll_nom	124.72376063703	Nominal Roll [deg]
revision	2	Processing version of data
ontime	38963.19985491	Sum of GTIs [s]
livetime	38469.824357525	Livetime [s]
ontime2	38956.717953861	Sum of GTIs [s]
ontime3	38959.95886457	Sum of GTIs [s]
ontime5	38963.19985491	Sum of GTIs [s]
ontime6	38959.958854675	Sum of GTIs [s]
ontime7	38963.19985491	Sum of GTIs [s]
ontime8	38963.19985491	Sum of GTIs [s]
l2events	325853	Number of level 2 events



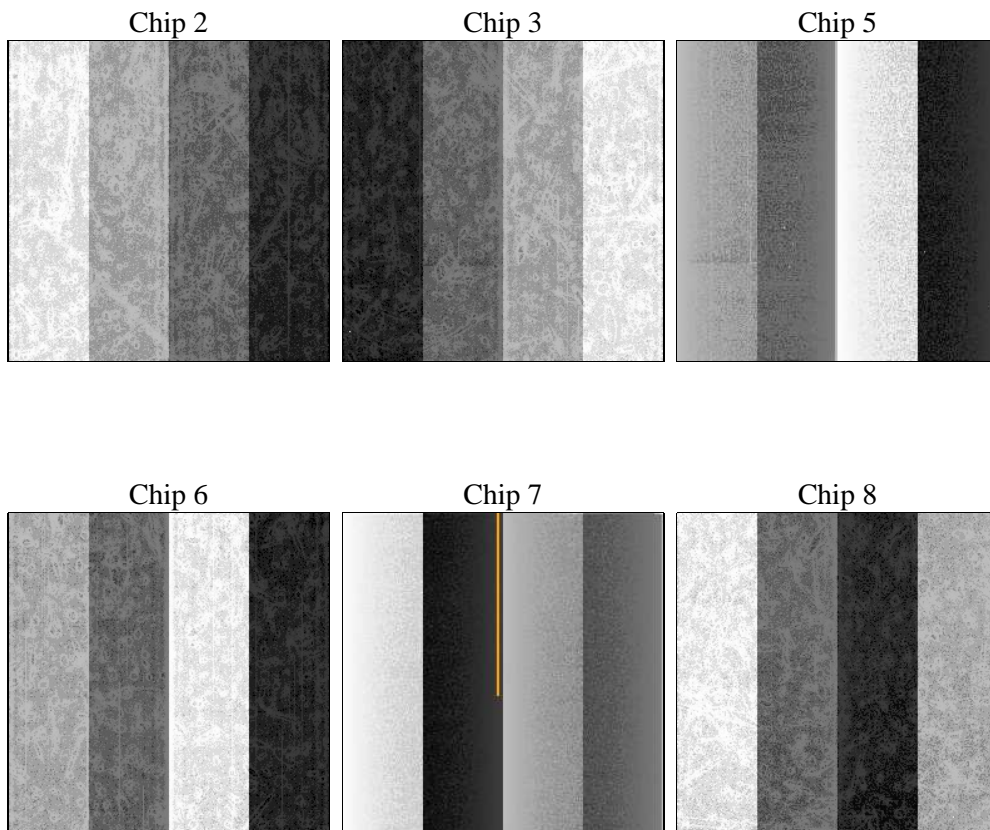
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	38963.19985491	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	38956.717953861	Sum of GTIs [s]
date	2014-12-06T07:47:50	Date and time of file creation	ontime3	38959.95886457	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	38963.19985491	Sum of GTIs [s]
			ontime6	38959.958854675	Sum of GTIs [s]
			ontime7	38963.19985491	Sum of GTIs [s]
			ontime8	38963.19985491	Sum of GTIs [s]
			l1events	1368517	Number of level 1 events

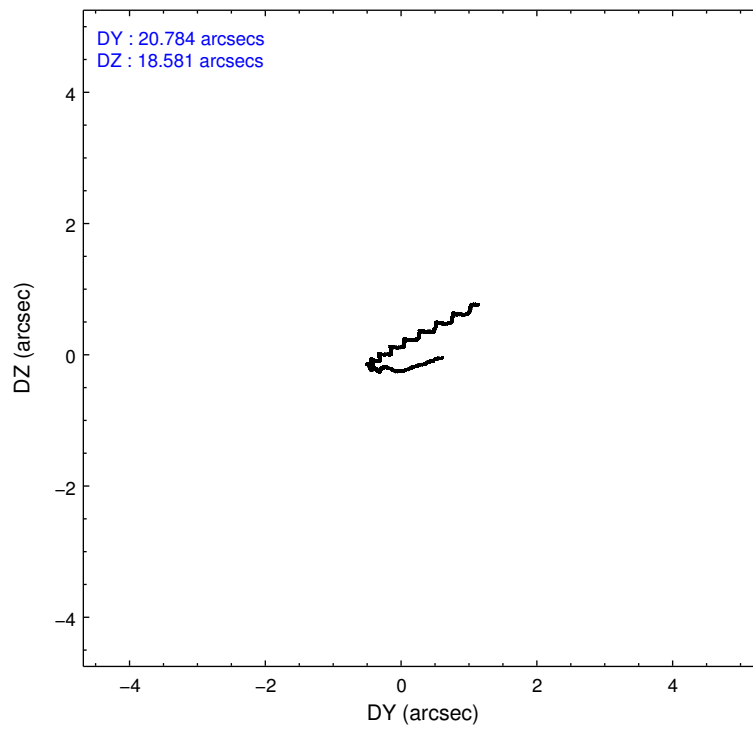
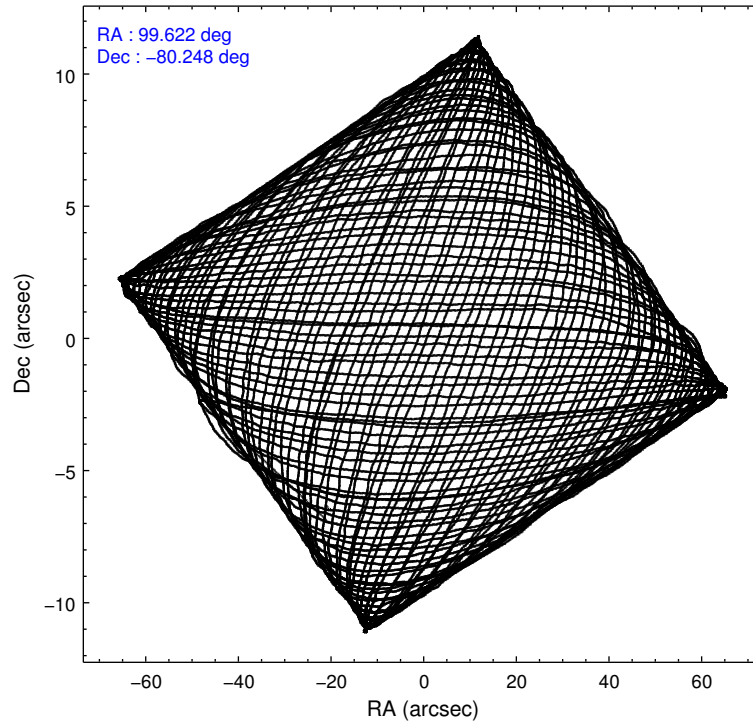
2.1.4 Events

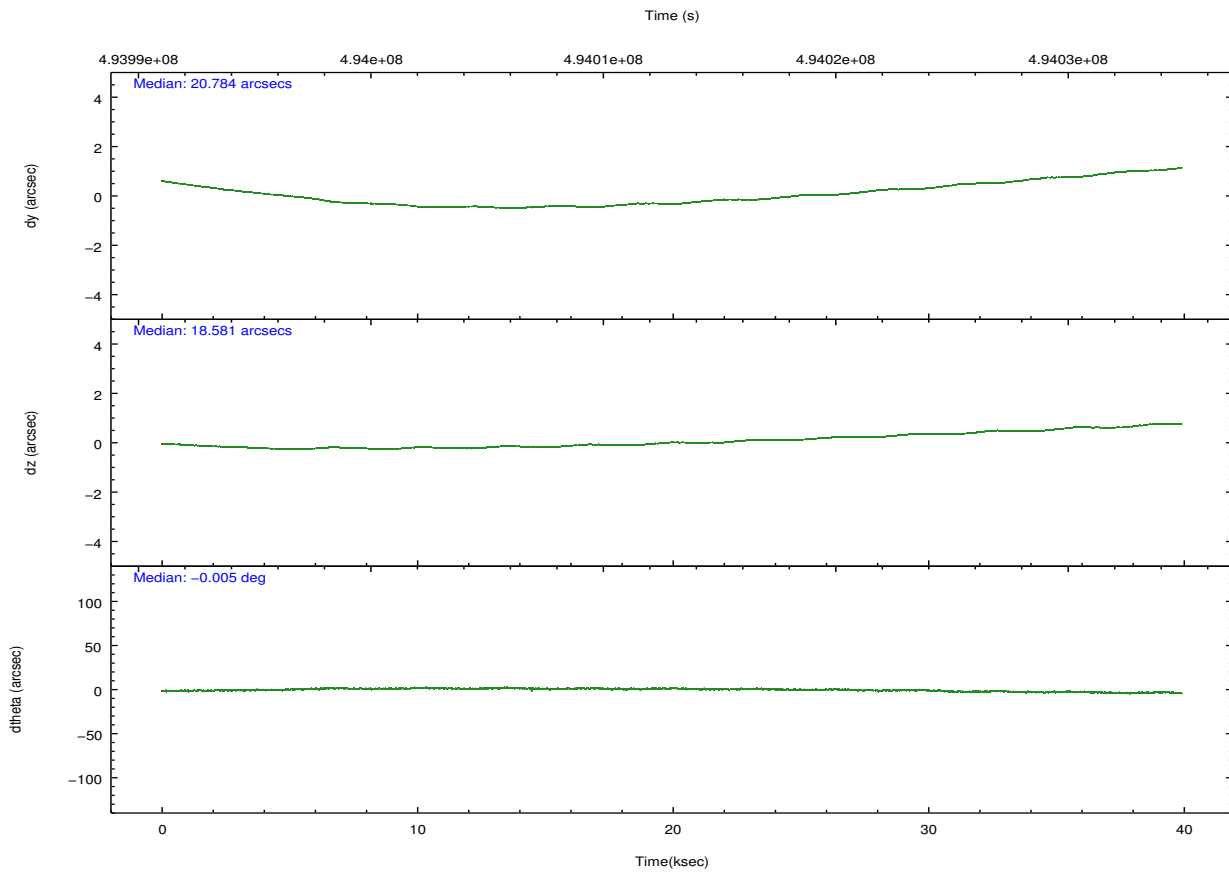
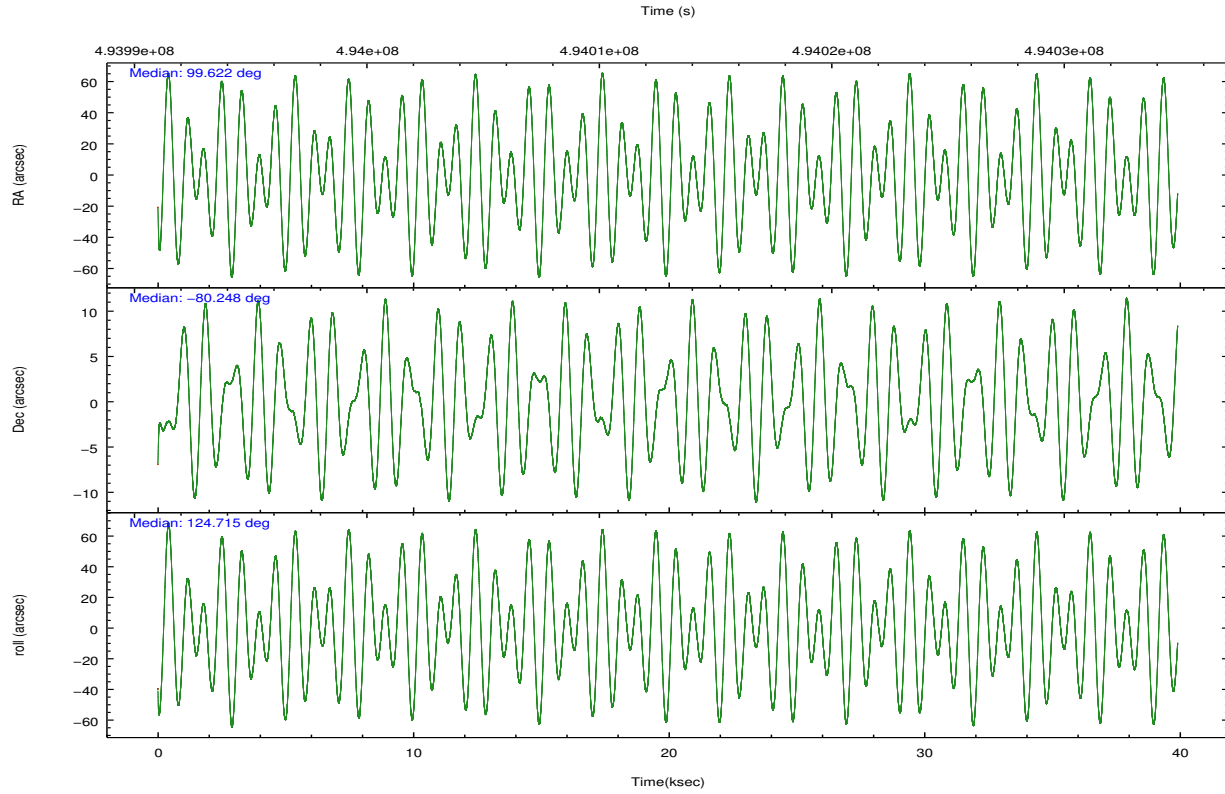
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	185535	177563	315290	191052	253831	245246	grade 0 events	7197	10946	19704	8171	9771	19360
rejected events	164772	153222	159089	167881	143381	180353		3%	6%	6%	4%	3%	7%
rejected %	88%	86%	50%	87%	56%	73%	grade 1 events	104	129	1248	93	295	191
								0%	0%	0%	0%	0%	0%
							grade 2 events	5216	4626	46506	5179	22657	15155
								2%	2%	14%	2%	8%	6%
							grade 3 events	2094	2204	5230	2347	9401	6807
								1%	1%	1%	1%	3%	2%
							grade 4 events	2057	2215	5053	2307	9619	6536
								1%	1%	1%	1%	3%	2%
							grade 5 events	8319	9535	23098	9687	25920	13889
								4%	5%	7%	5%	10%	5%
							grade 6 events	4202	4352	79737	5171	59021	17037
								2%	2%	25%	2%	23%	6%
							grade 7 events	156346	143556	134714	158097	117147	166271
								84%	80%	42%	82%	46%	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	99.769201	99.62214120679357	CCD I2 on	O1	Y
[deg] Pointing Dec	-80.259215	-80.24790672596924	CCD I3 on	O2	Y
[deg] Pointing Roll	124.712068	124.7237606370263	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O5	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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	O3	Y
[s] Observation start time (MET)	493993890.184000	493992141.6457	CCD S5 on	N	N
Observation start date	2013-08-27T12:30:23	2013-08-27T12:02:21	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	494032890.184000	494033711.03546	On-chip summing requested	N	N
Observation end date	2013-08-27T23:20:23	2013-08-27T23:35:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





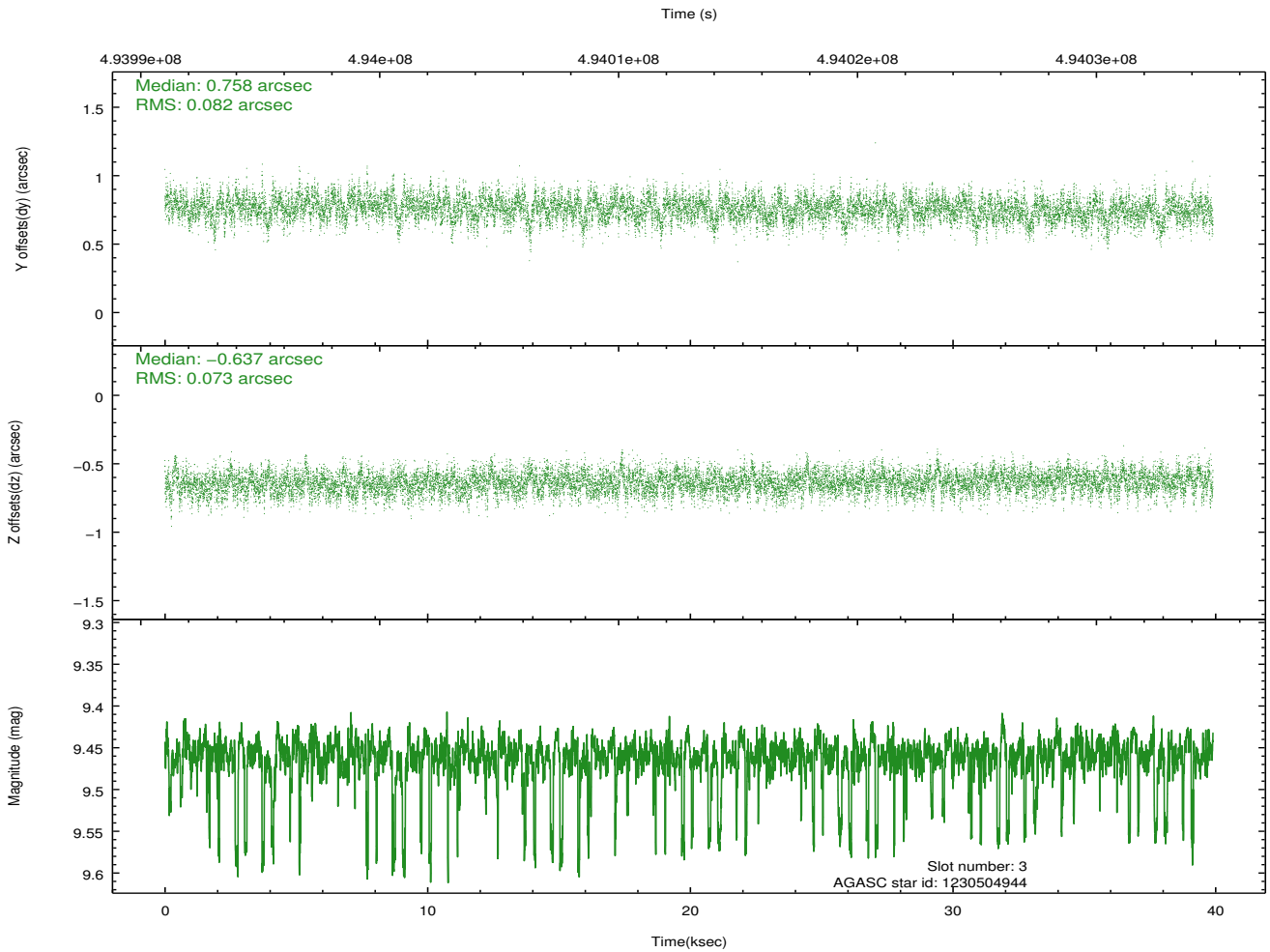
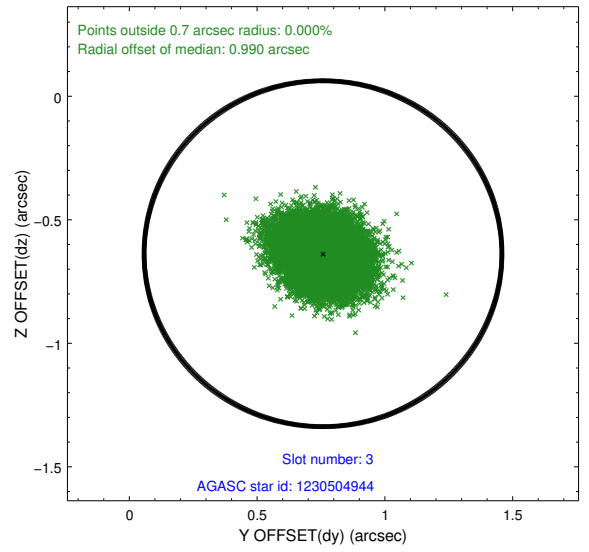
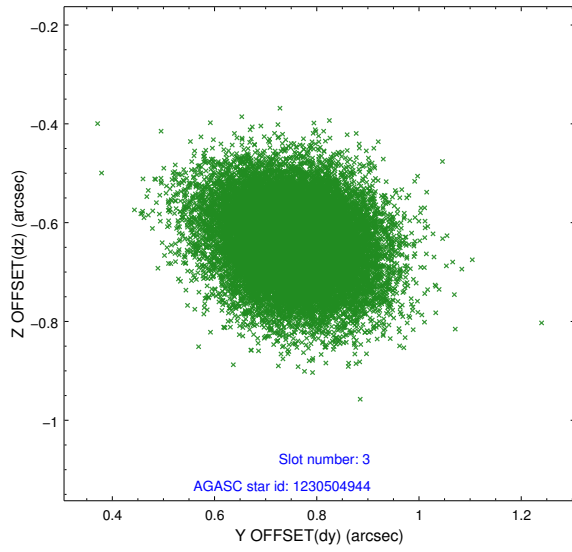
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.02	9734	0.024	0.016	0.009	0.015	0.000000	0.000000	922.06	-1735.77
1	FID		ACIS-S-4	7.03	9734	0.171	-0.018	0.008	0.015	0.000000	0.000000	2139.62	168.34
2	FID		ACIS-S-5	7.06	9734	-0.222	0.015	0.008	0.016	0.000000	0.000000	-1827.04	161.98
3	GUIDE	used	1230504944	9.46	19266	0.758	-0.637	0.117	0.192	100.499004	-79.608779	1654.22	-1721.76
4	GUIDE	used	1230507056	9.31	19447	-0.088	0.067	0.131	0.214	100.328232	-80.125169	199.48	-557.61
5	GUIDE	used	1230510480	8.11	19460	-0.217	0.327	0.076	0.116	102.627792	-80.135729	-673.12	-1676.87
6	GUIDE	used	1230511024	8.85	19459	-0.167	0.231	0.115	0.180	100.617744	-80.059183	289.05	-841.24
7	GUIDE	used	1230905888	9.46	19425	-0.279	0.010	0.129	0.210	98.916294	-80.848244	-1467.87	1610.70

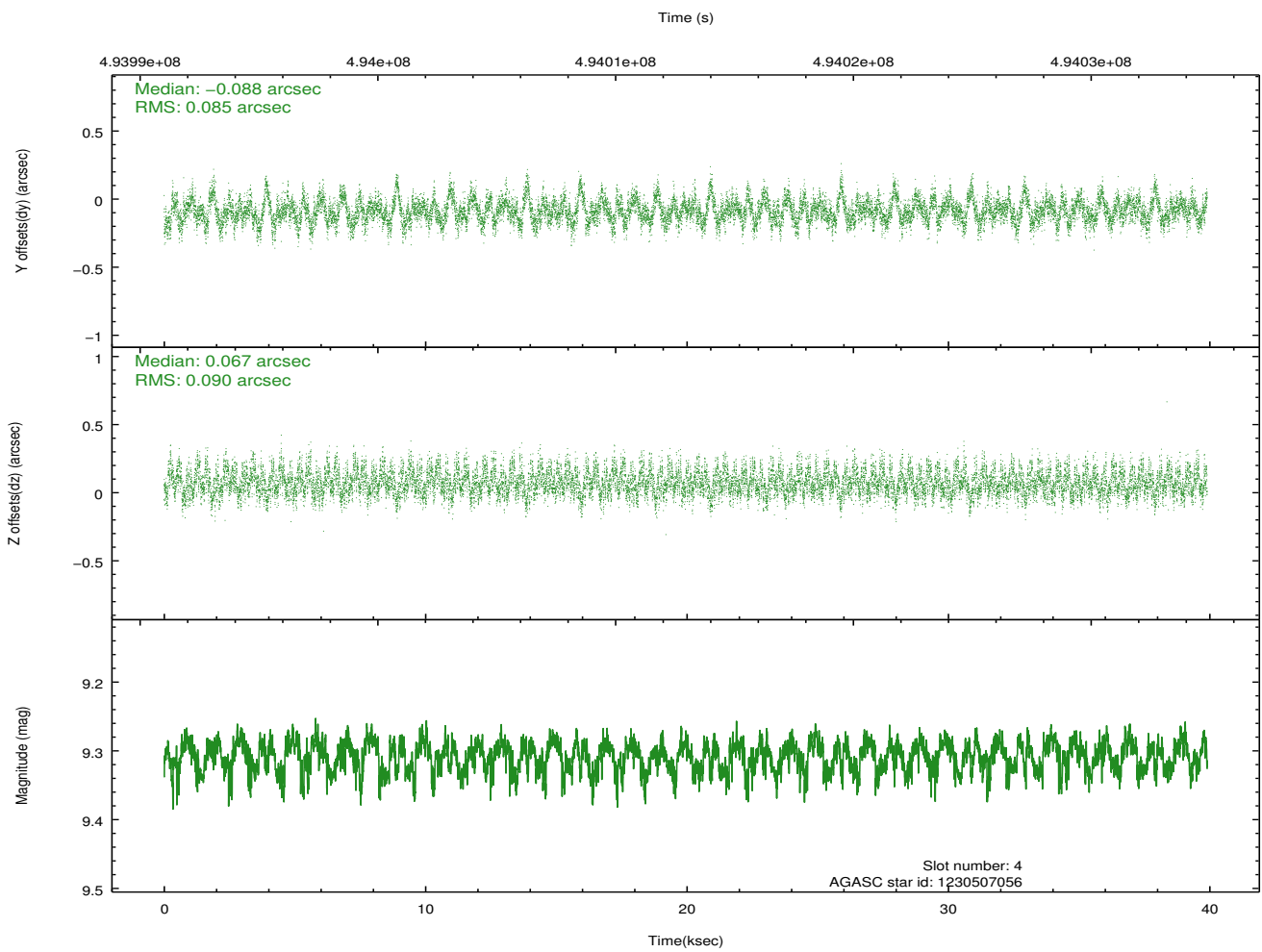
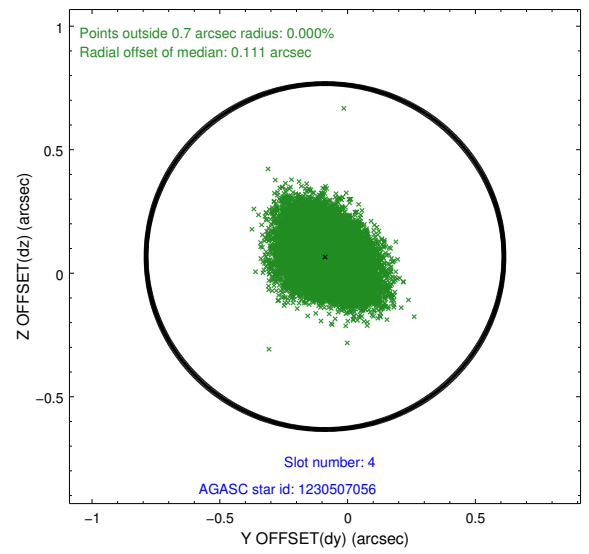
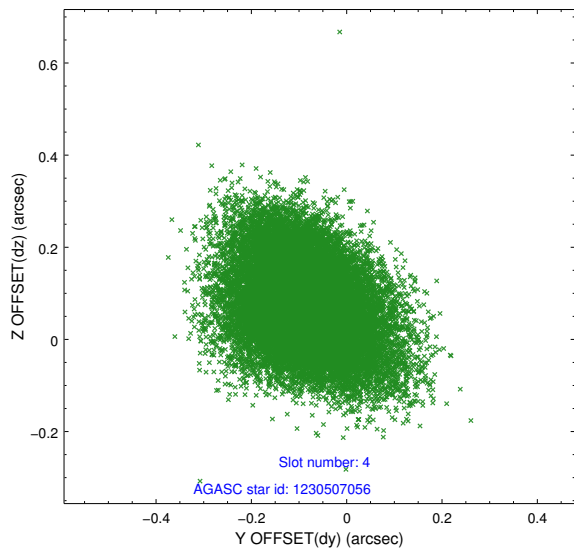
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2.4 Star Slots

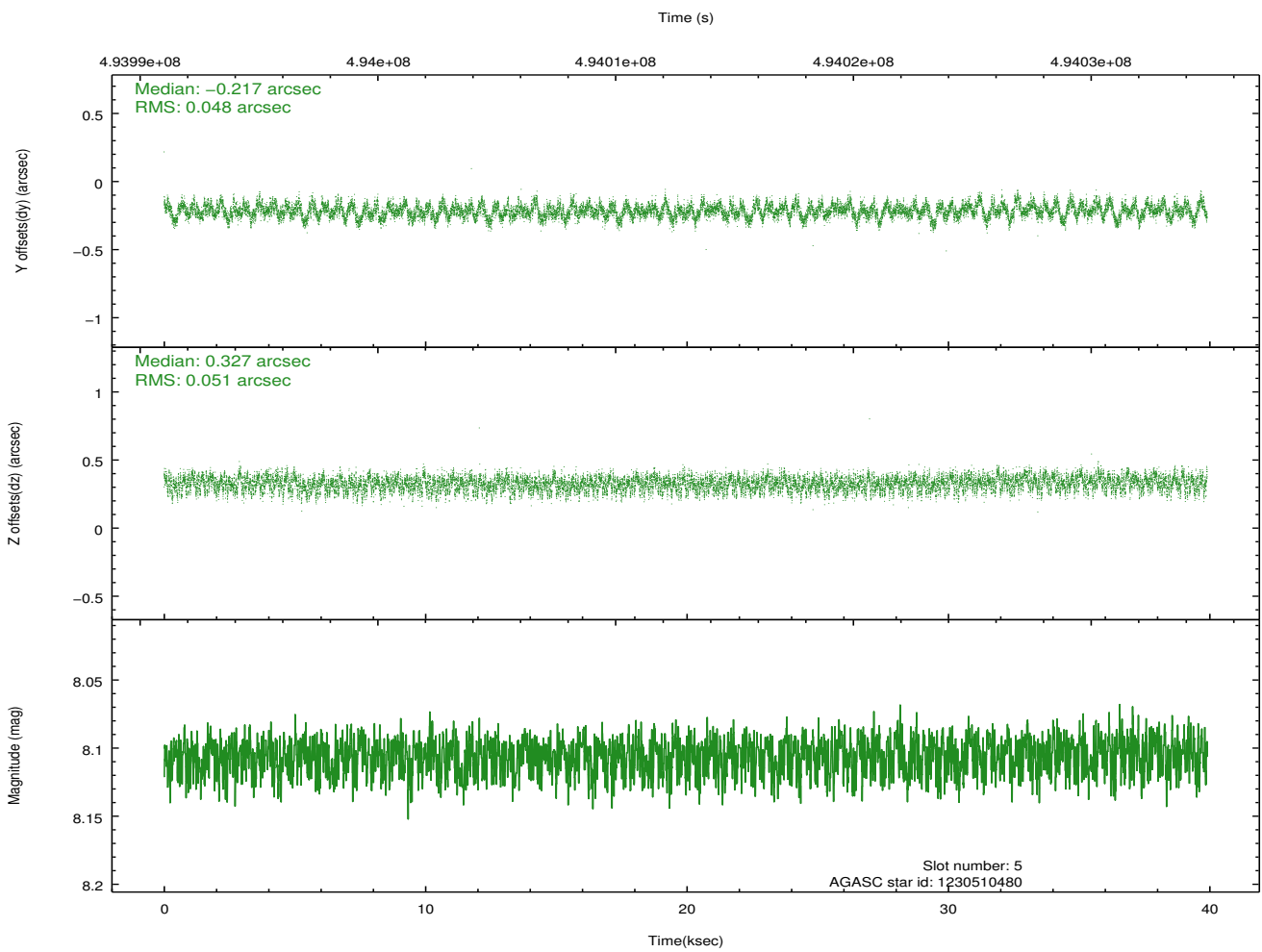
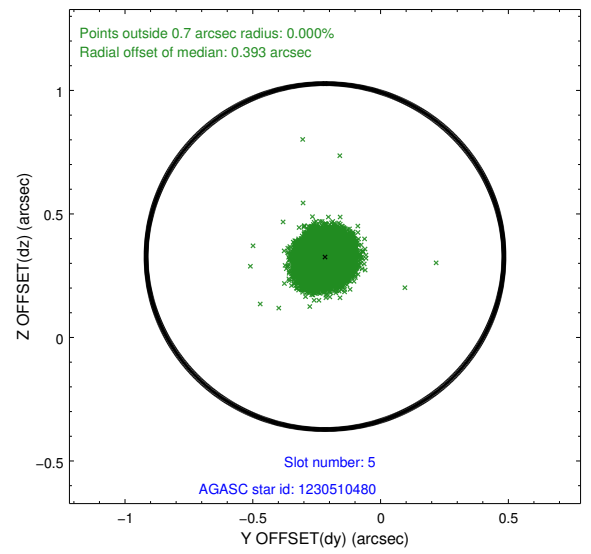
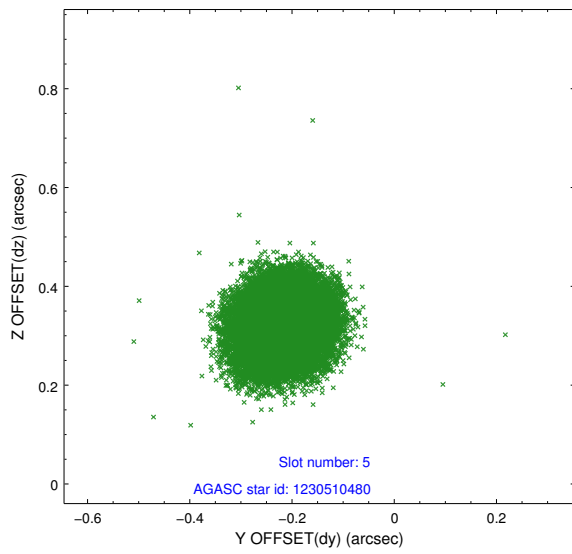
2.4.1 Slot 3



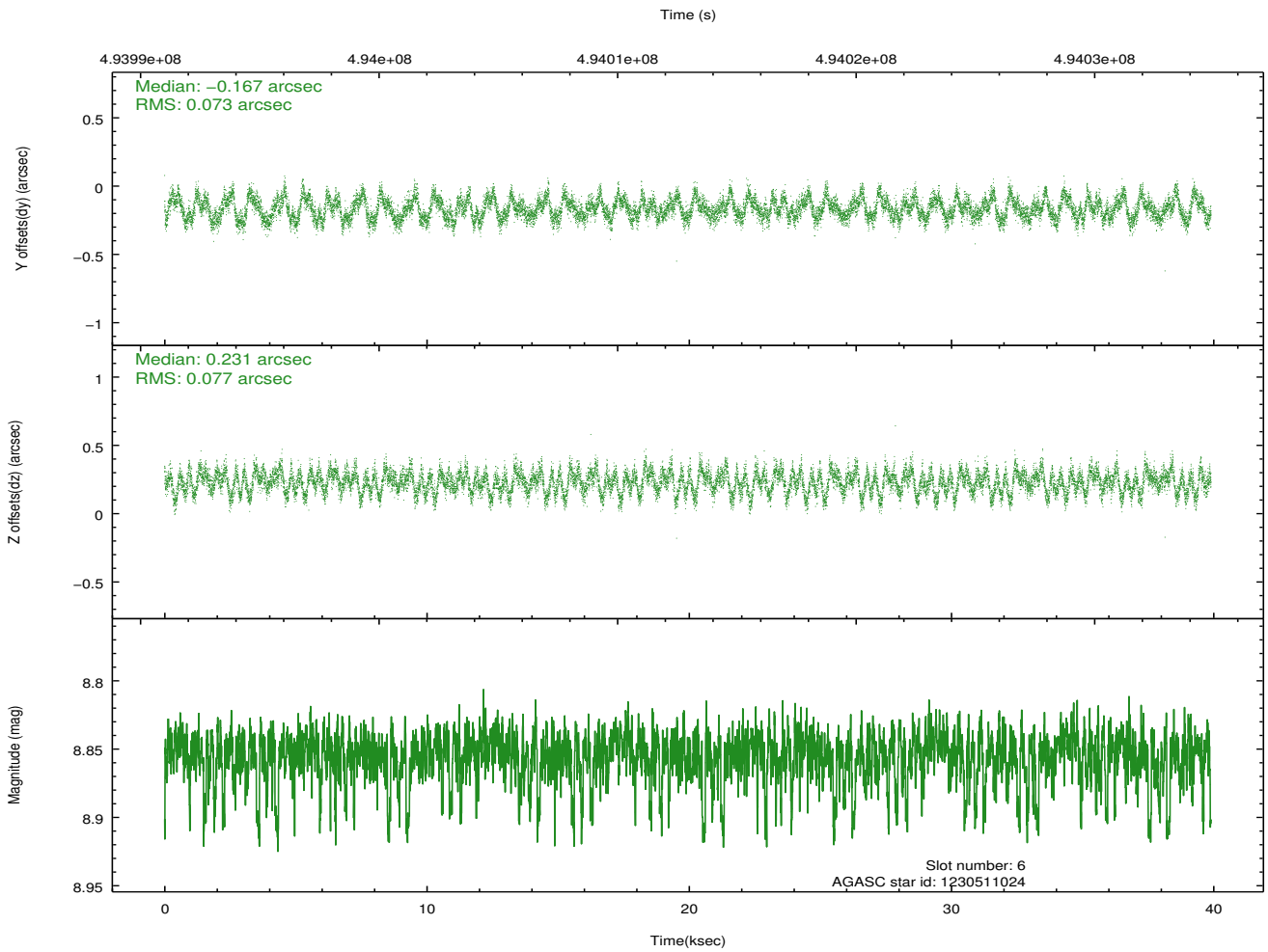
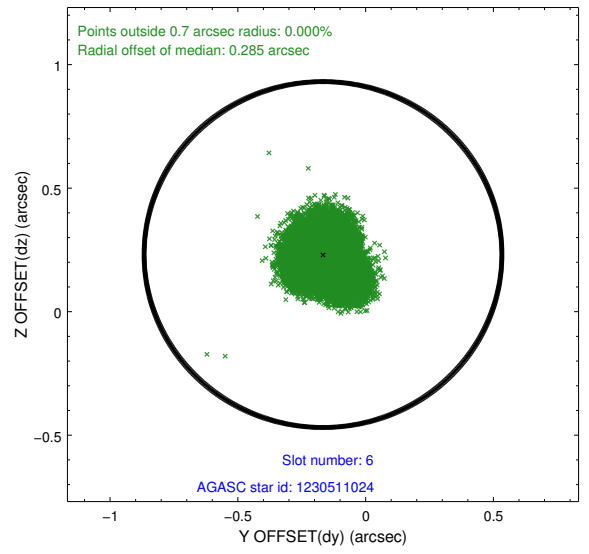
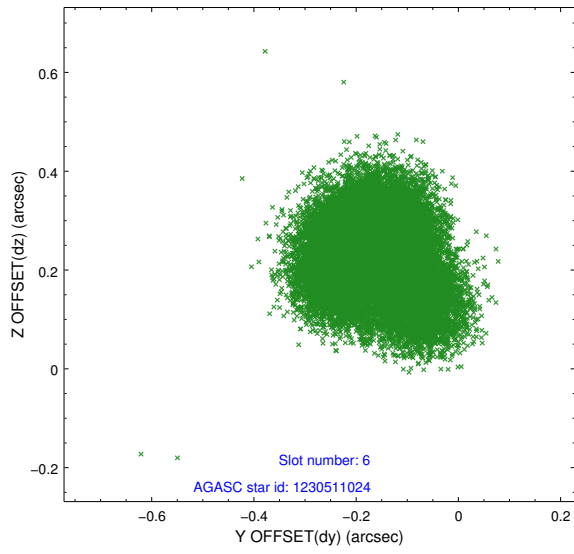
2.4.2 Slot 4



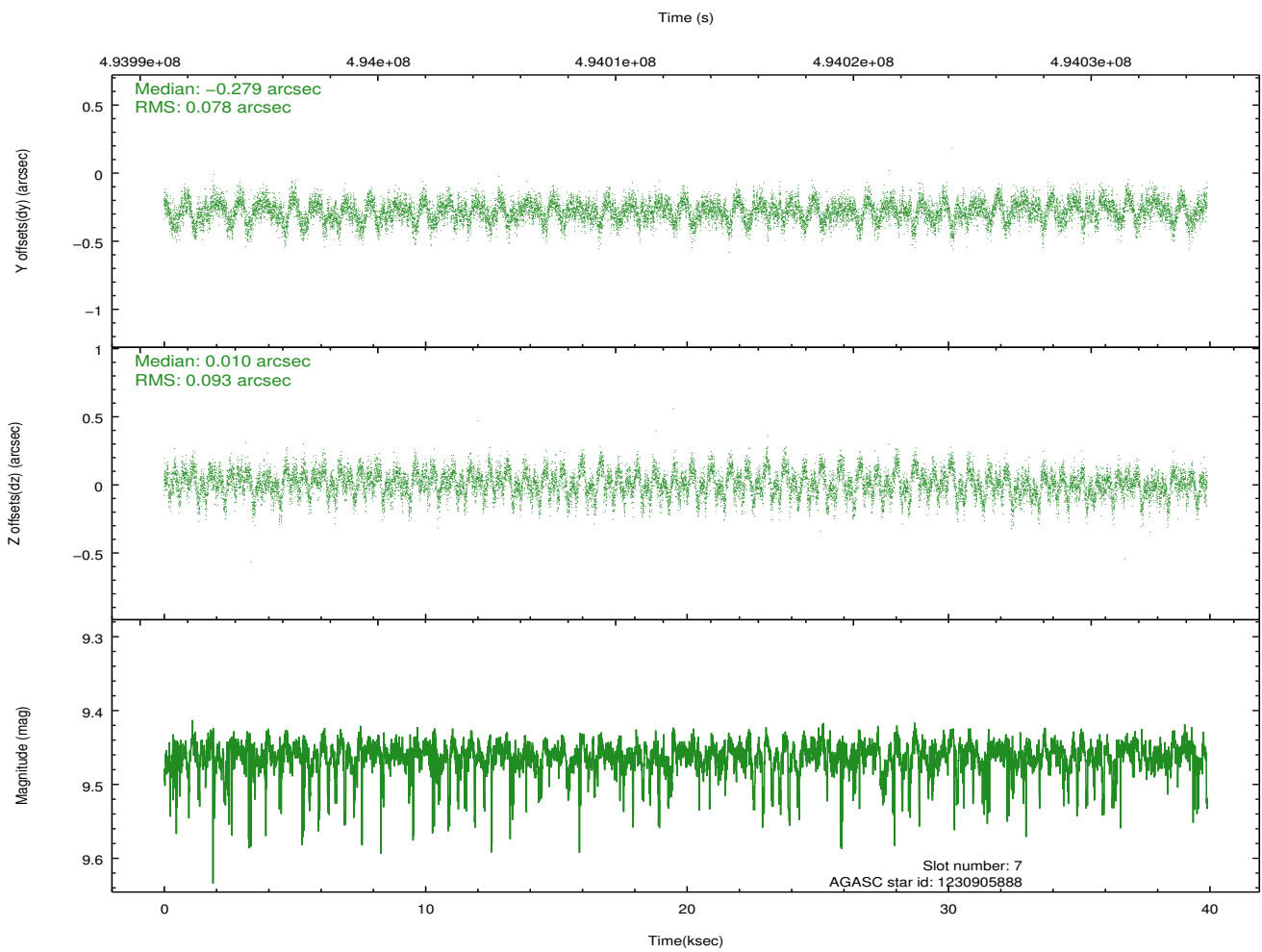
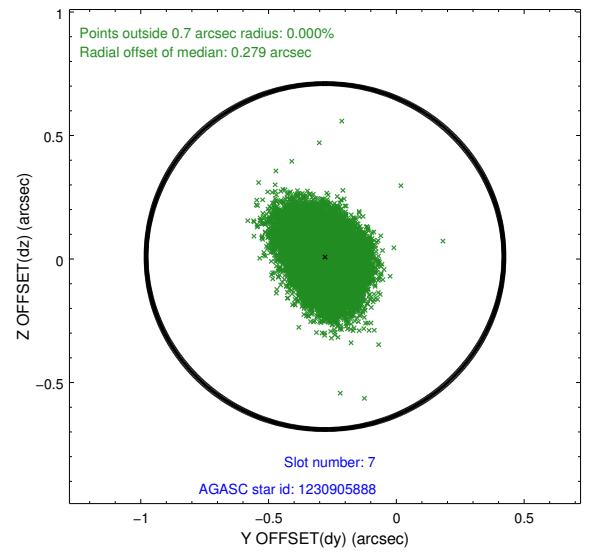
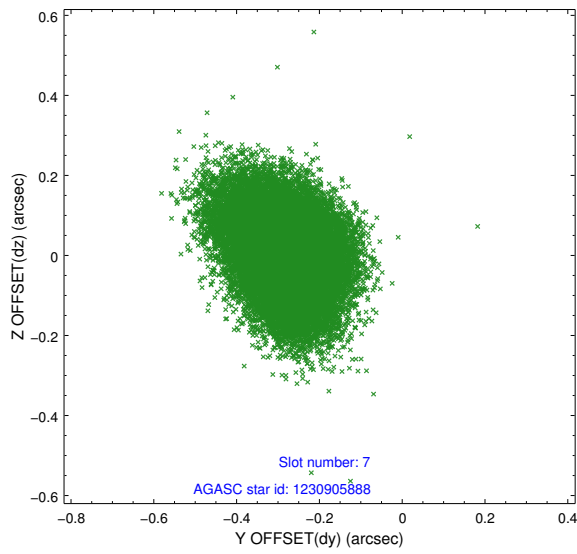
2.4.3 Slot 5



2.4.4 Slot 6

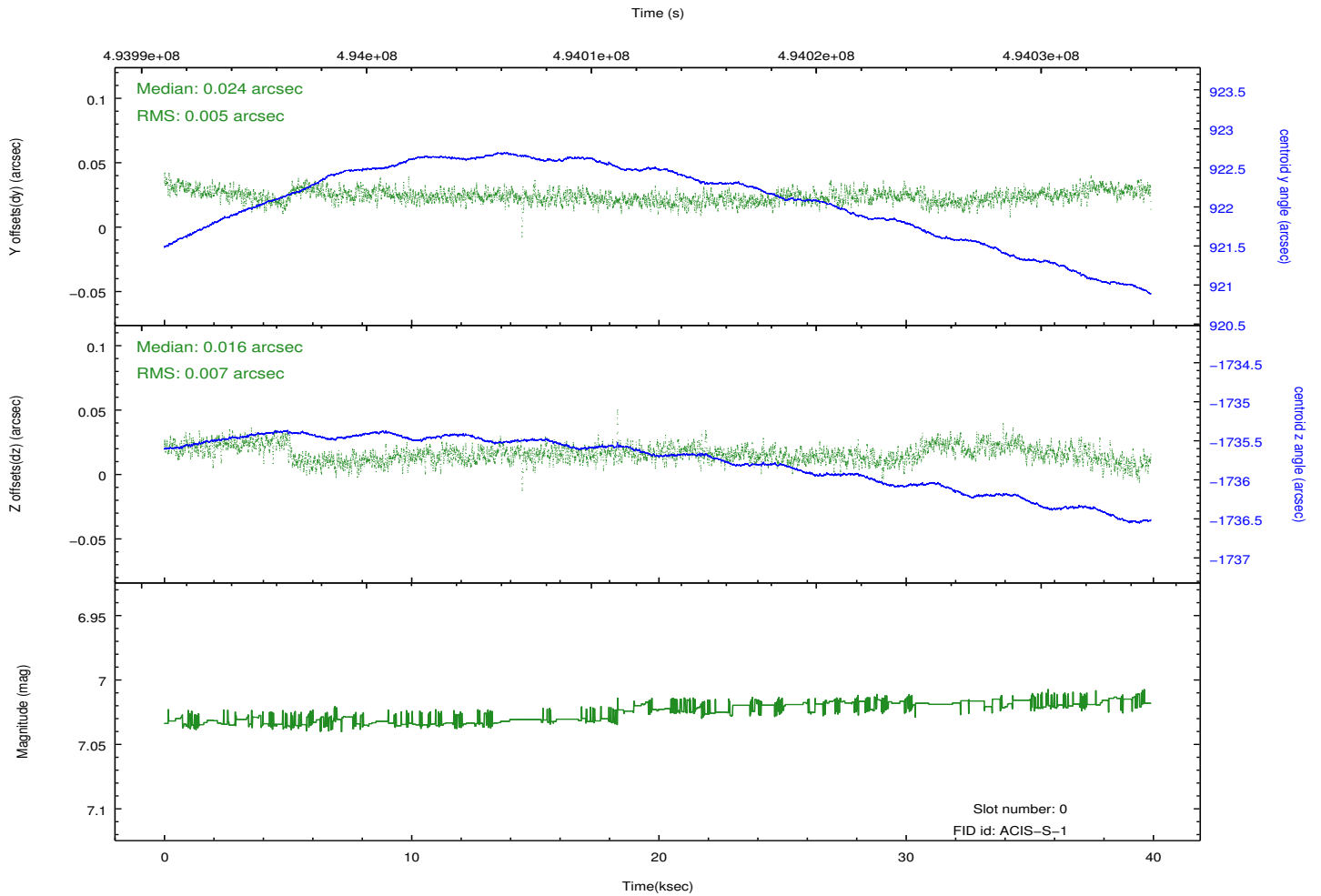
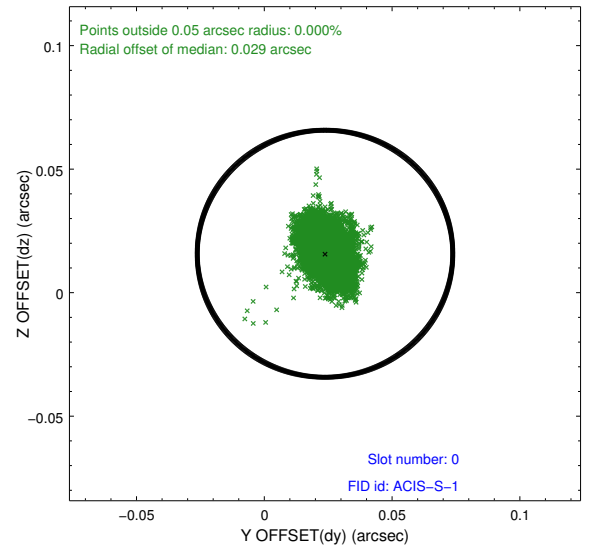
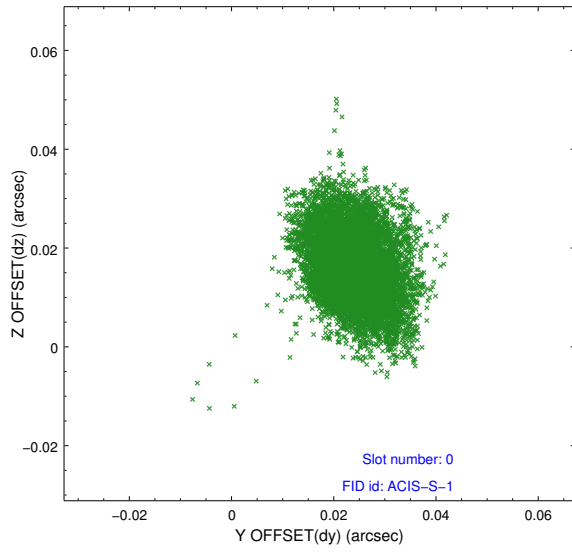


2.4.5 Slot 7

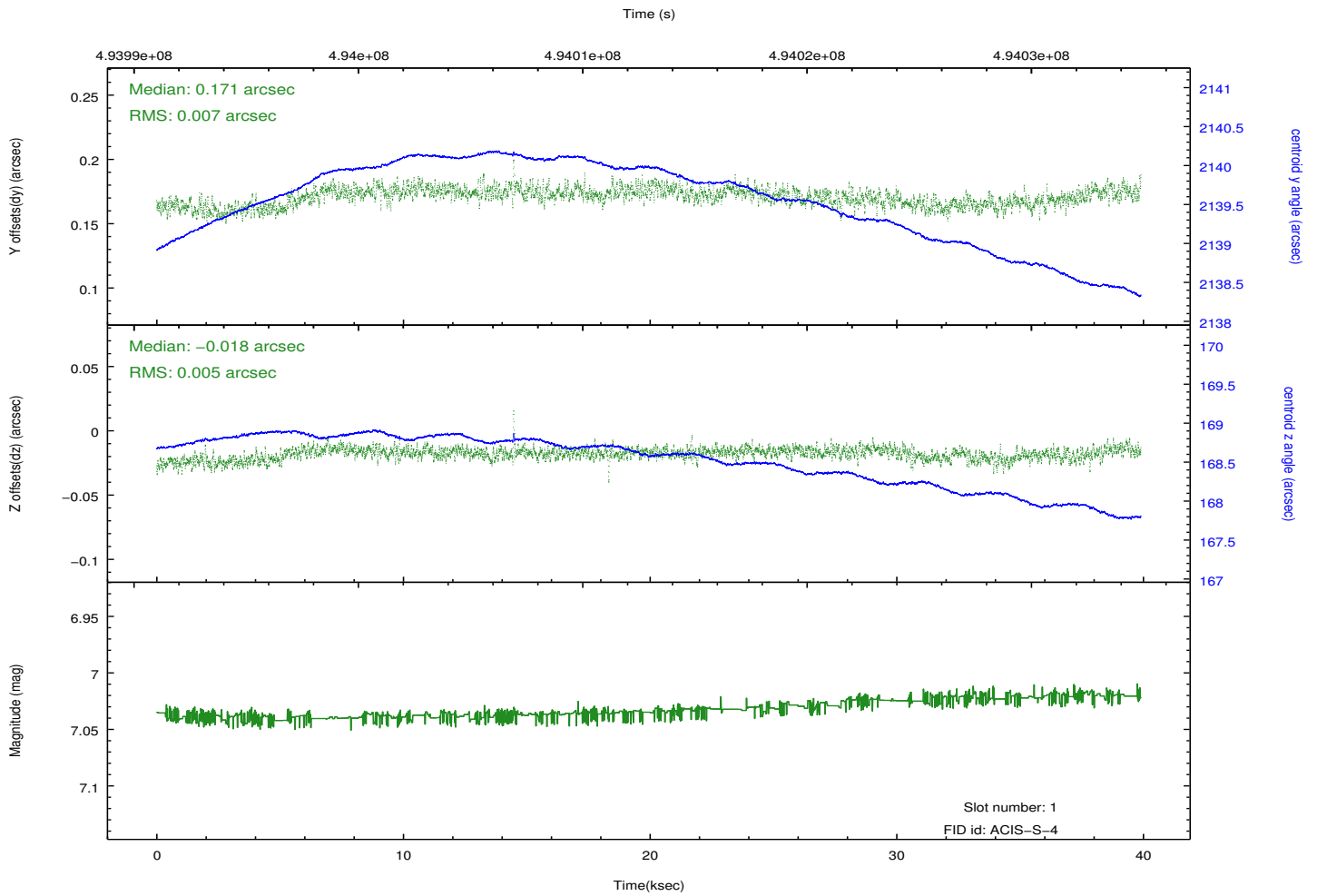
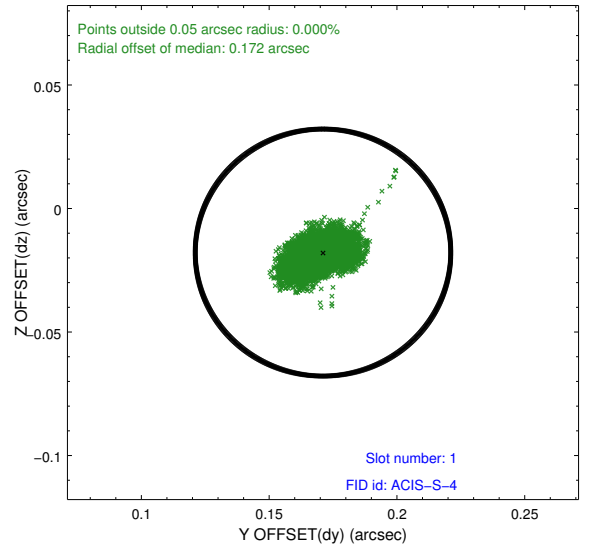
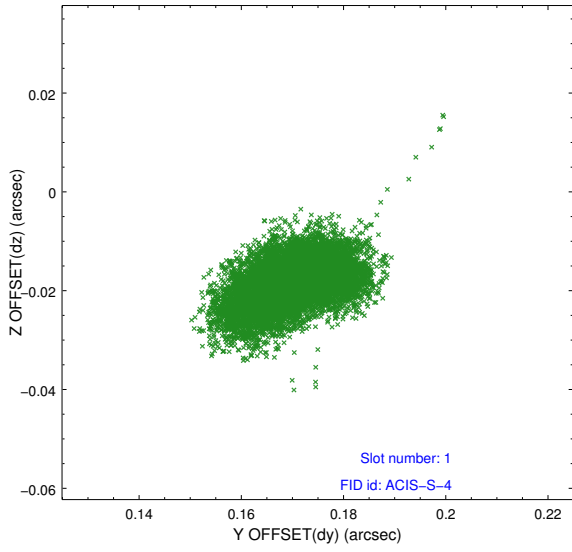


2.5 FID Slots

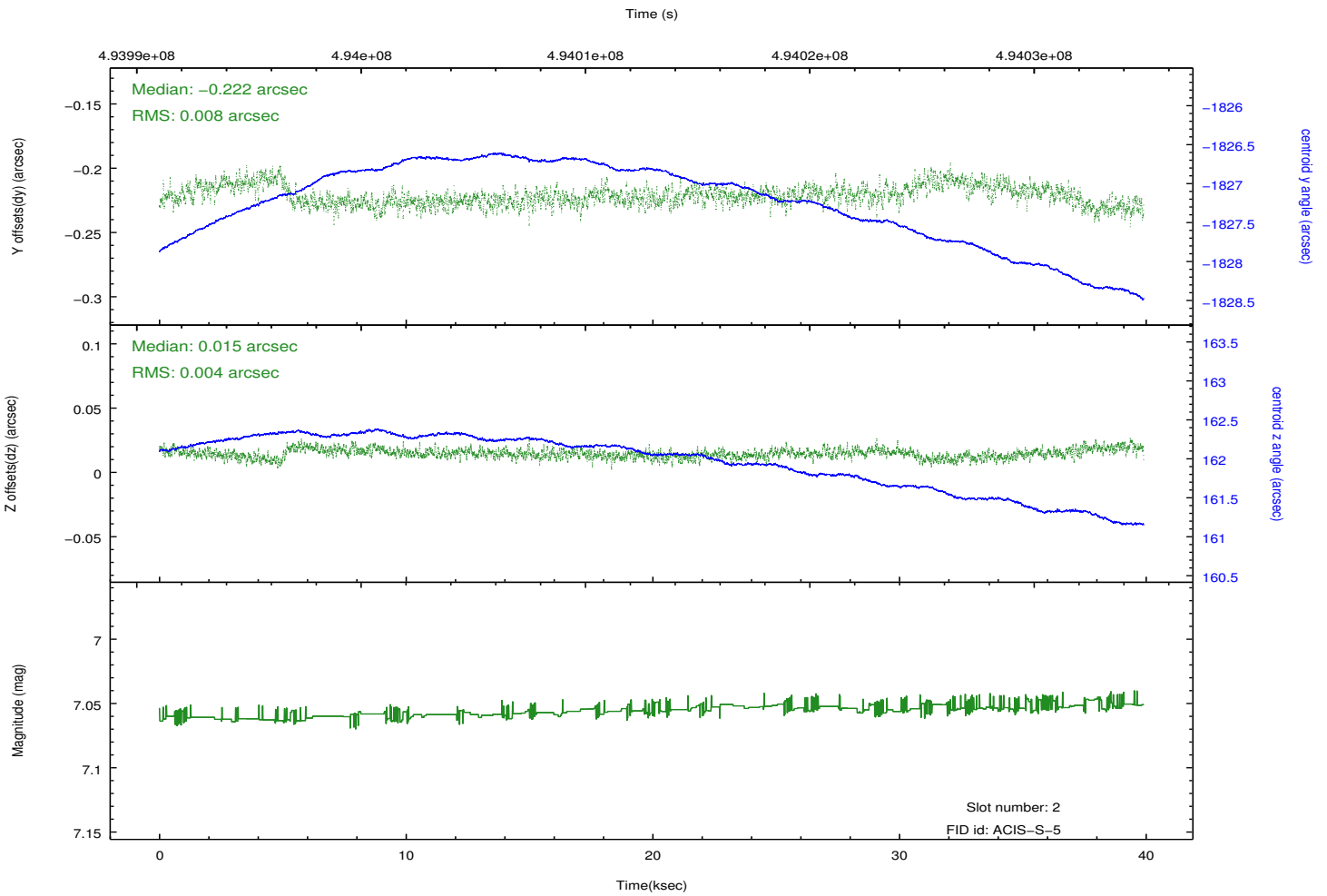
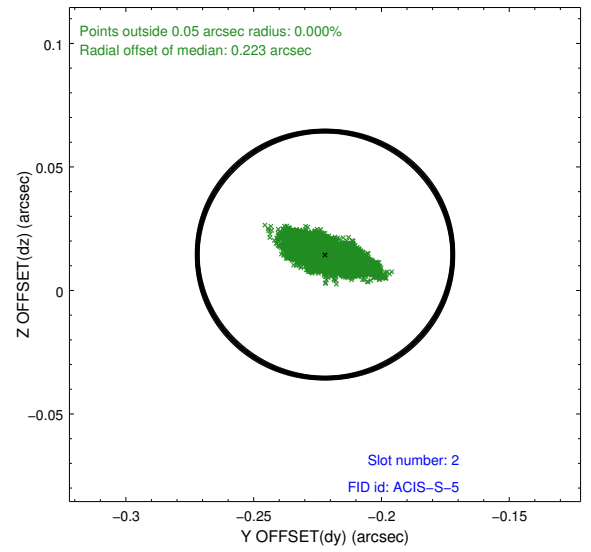
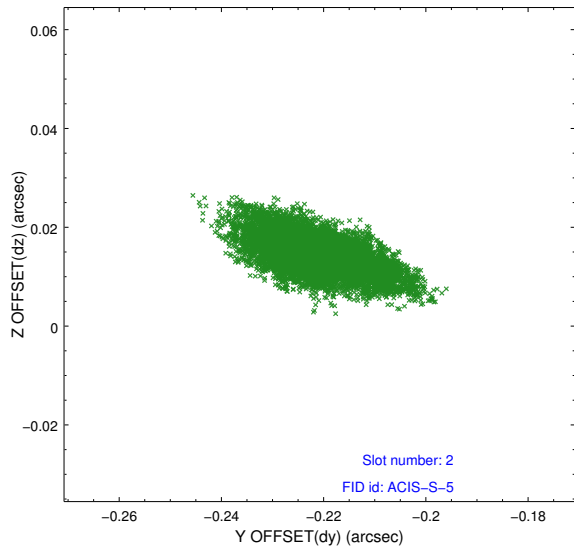
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.96319985491

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.