

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14969 - L2 Version 2
Chandra X-Ray Center

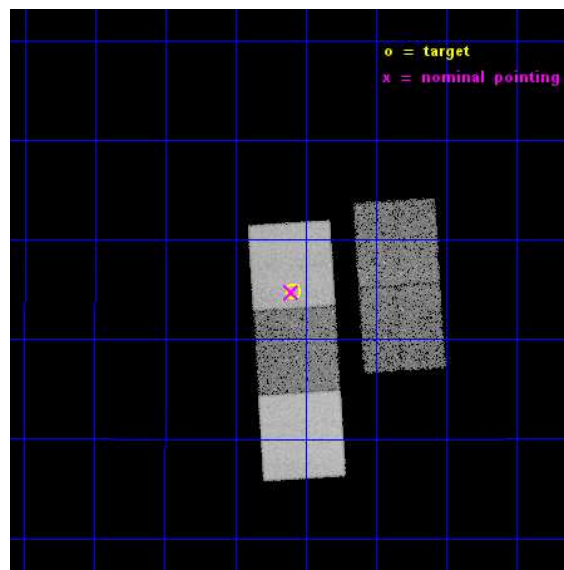
L2 Processing Date : Dec 1 2014

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1 Front

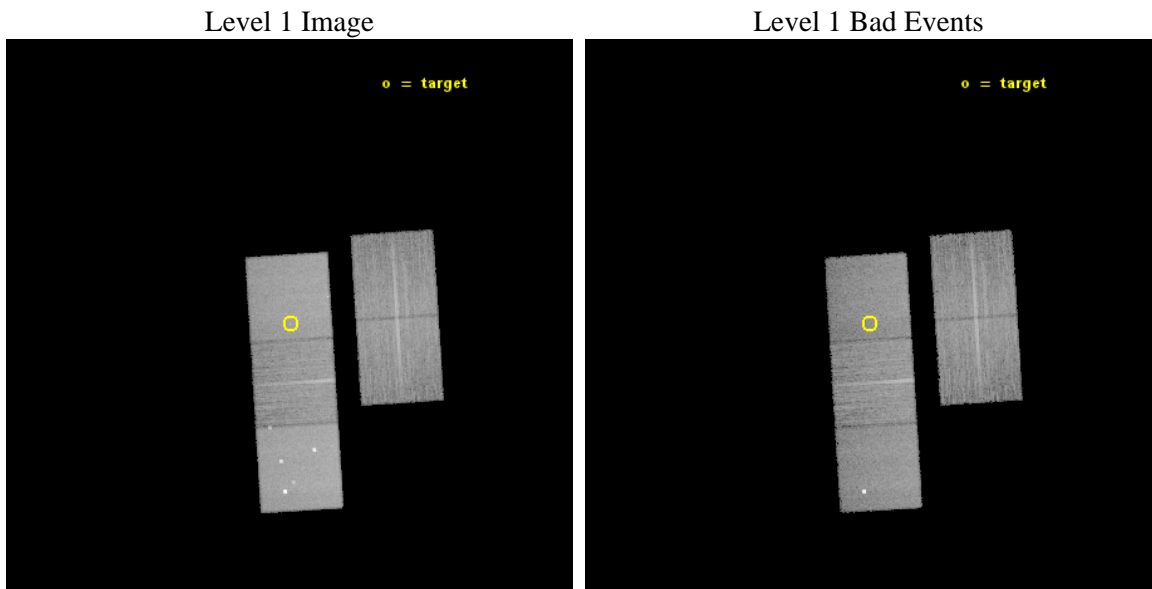
seq_num	702778	Sequence number
obs_id	14969	Observation id
title	The Hierarchical Assembly of Massive Black Holes: Identifying Kpc-Scale Triple AGNs with Chandra, HST, and EVLA	Proposal title
observer	Dr. Xin Liu	Principal investigator
object	SDSSJ0849+1114	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	132.2725	Observer's specified target RA [deg]
dec_targ	11.246083	Observer's specified target Dec [deg]
ra_nom	132.27506727631	Nominal RA [deg]
dec_nom	11.245132585237	Nominal Dec [deg]
roll_nom	266.31053927291	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20065.583947837	Sum of GTIs [s]
livetime	19803.412321491	Livetime [s]
ontime2	20062.278727591	Sum of GTIs [s]
ontime3	20065.460827827	Sum of GTIs [s]
ontime5	20065.542907834	Sum of GTIs [s]
ontime6	20065.501867831	Sum of GTIs [s]
ontime7	20065.583947837	Sum of GTIs [s]
l2events	180586	Number of level 2 events



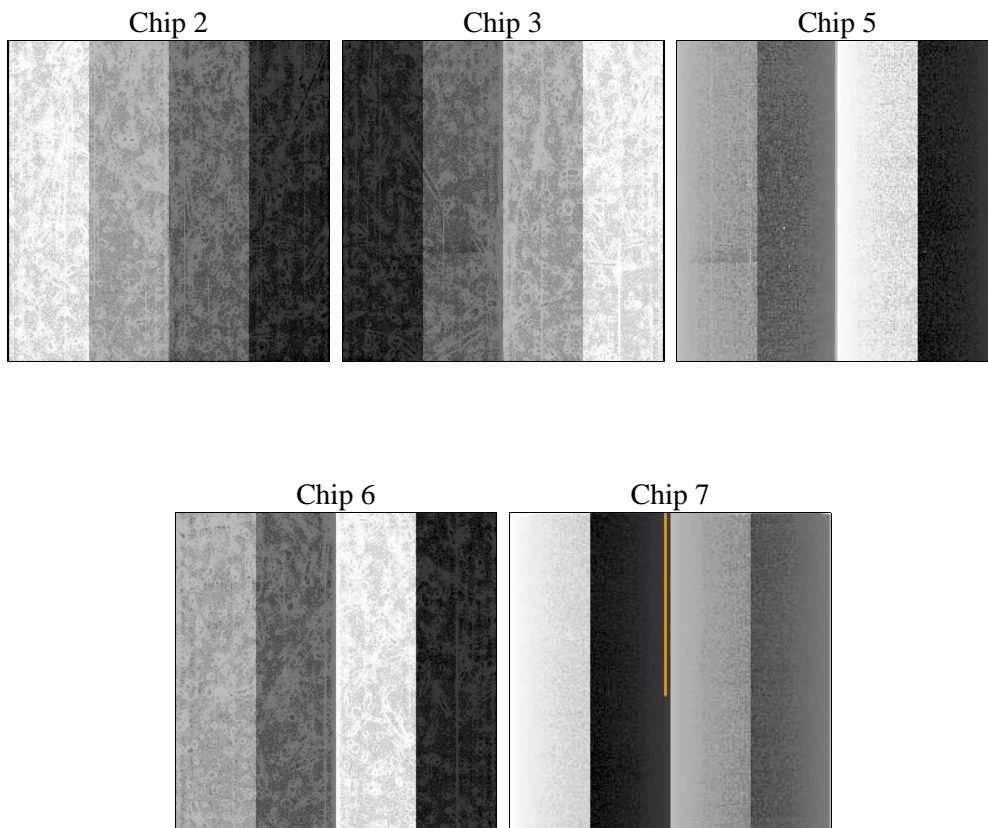
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.134000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20065.583947837	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	20062.278727591	Sum of GTIs [s]
date	2014-12-01T22:04:50	Date and time of file creation	ontime3	20065.460827827	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	20065.542907834	Sum of GTIs [s]
			ontime6	20065.501867831	Sum of GTIs [s]
			ontime7	20065.583947837	Sum of GTIs [s]
			l1events	674646	Number of level 1 events

2.1.4 Events

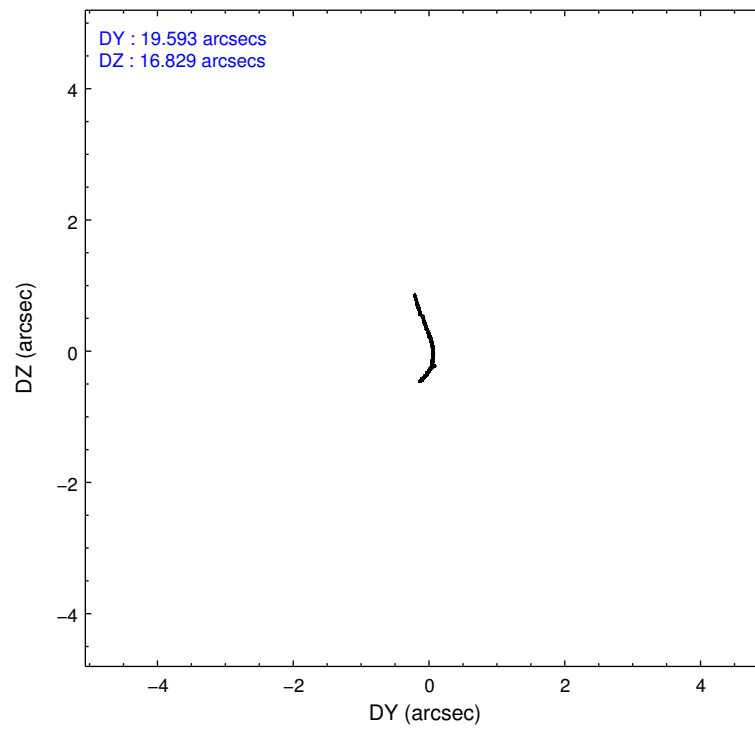
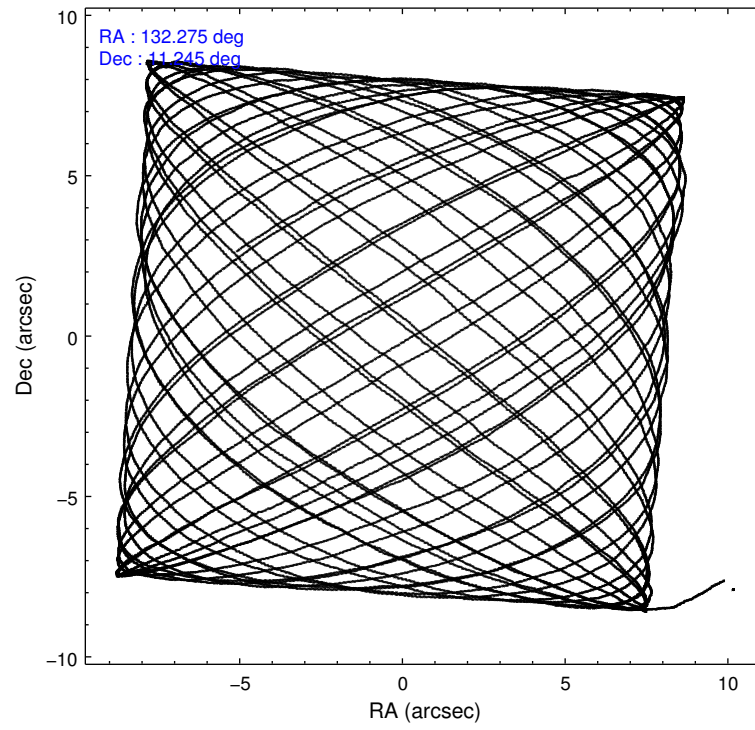
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	107210	105742	194901	115381	151412
rejected events	95052	93382	100755	102091	85683
rejected %	88%	88%	51%	88%	56%

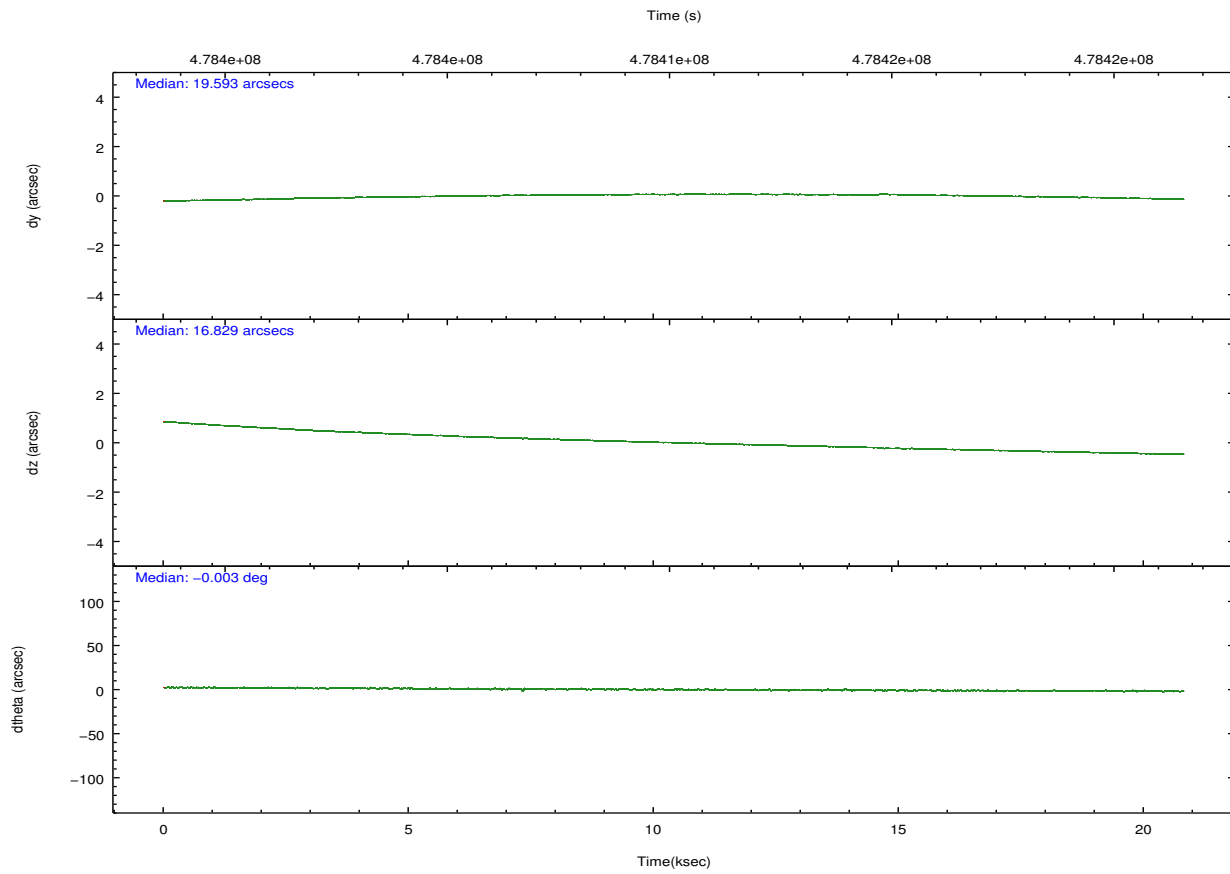
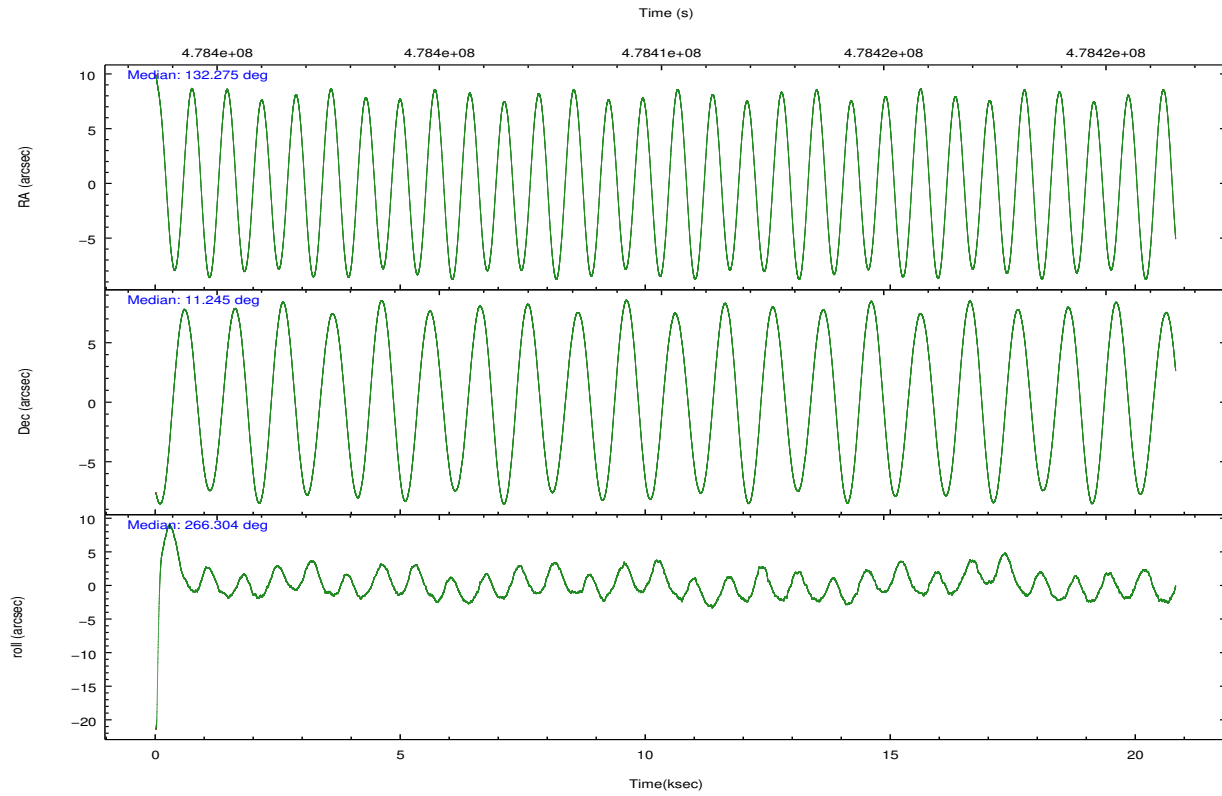
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4290	4306	12401	4411	5866
	4%	4%	6%	3%	3%
grade 1 events	61	64	306	54	195
	0%	0%	0%	0%	0%
grade 2 events	2950	2678	27638	3062	13356
	2%	2%	14%	2%	8%
grade 3 events	1274	1408	3055	1353	5519
	1%	1%	1%	1%	3%
grade 4 events	1267	1349	2970	1398	5700
	1%	1%	1%	1%	3%
grade 5 events	4817	5856	14435	5786	15440
	4%	5%	7%	5%	10%
grade 6 events	2379	2624	48112	3071	35316
	2%	2%	24%	2%	23%
grade 7 events	90172	87457	85984	96246	70020
	84%	82%	44%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	132.262348	132.2750672763105	CCD I2 on	Y	Y
[deg] Pointing Dec	11.269470	11.24513258523745	CCD I3 on	Y	Y
[deg] Pointing Roll	266.156412	266.3105392729057	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	N	N
[s] Observation start time (MET)	478400505.184000	478399253.4744	CCD S5 on	N	N
Observation start date	2013-02-28T01:00:38	2013-02-28T00:40:53	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	478420505.184000	478420732.35056	On-chip summing requested	N	N
Observation end date	2013-02-28T06:33:58	2013-02-28T06:38:52	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





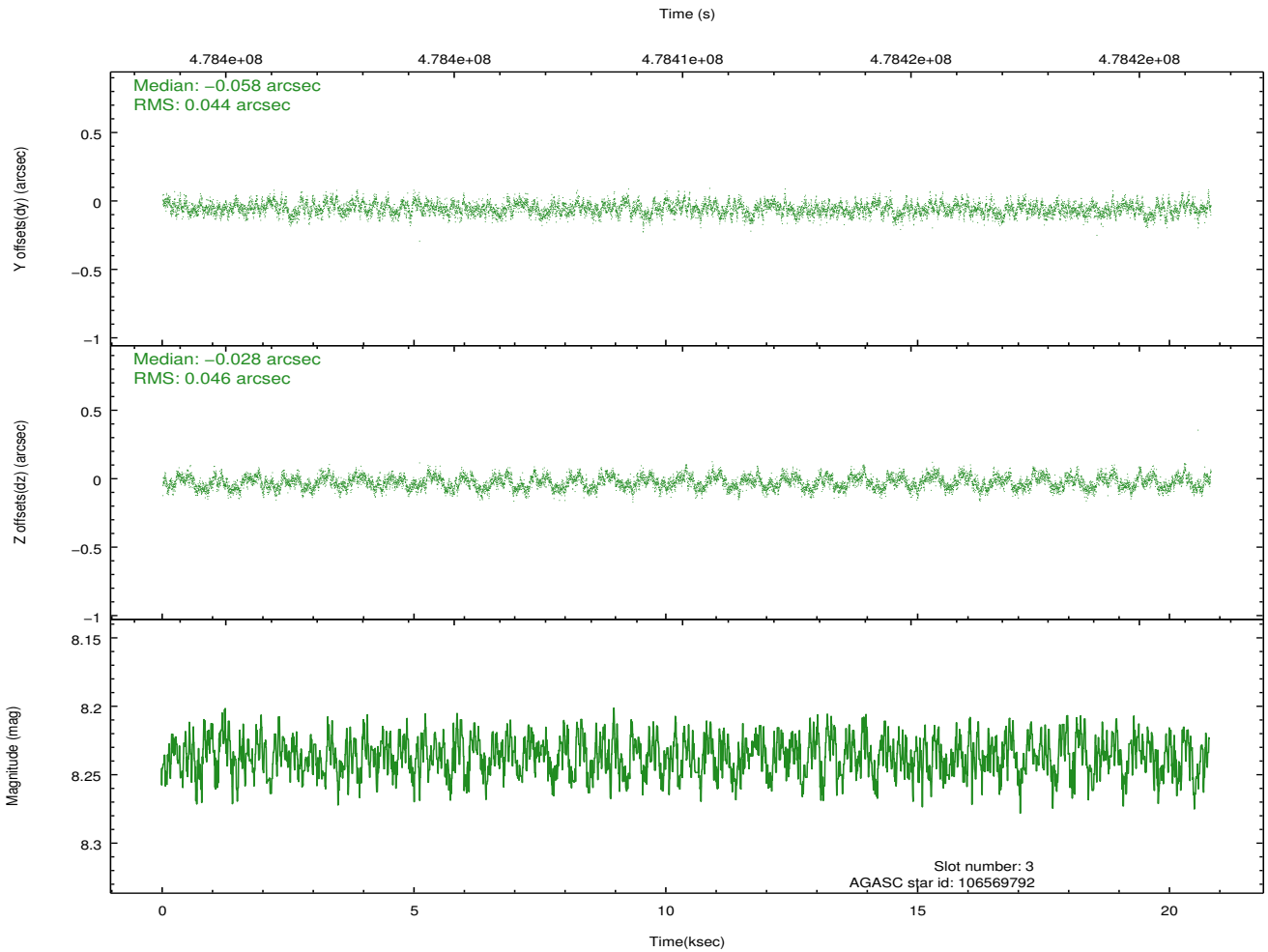
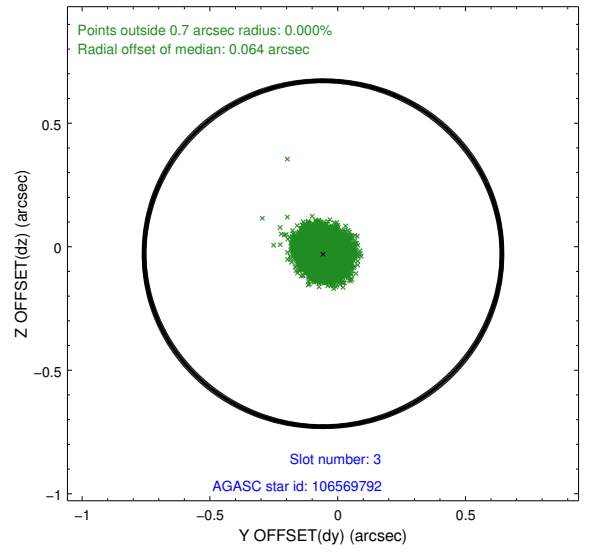
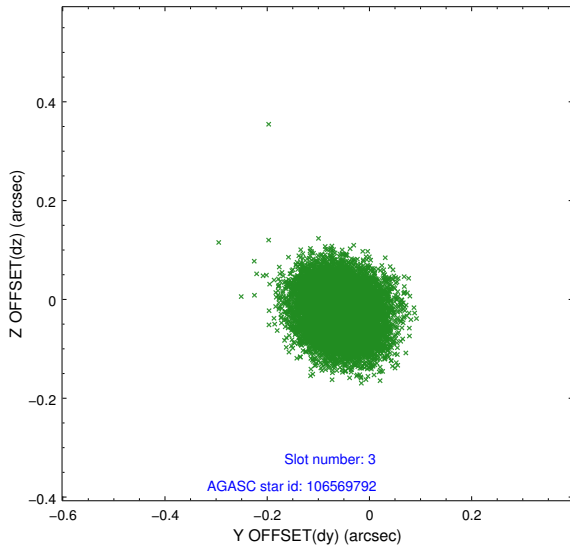
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.00	5076	-0.116	-0.030	0.014	0.022	0.000000	0.000000	-772.81	-1738.28
1	FID		ACIS-S-4	7.07	5076	0.270	0.064	0.008	0.014	0.000000	0.000000	2140.80	170.07
2	FID		ACIS-S-5	7.10	5076	-0.186	-0.026	0.013	0.020	0.000000	0.000000	-1825.47	163.92
3	GUIDE	used	106569792	8.24	10150	-0.058	-0.028	0.069	0.107	132.551268	11.856800	-2178.23	873.90
4	GUIDE	used	106581888	8.44	10149	0.073	-0.018	0.075	0.124	131.872074	10.658388	2286.95	-1229.74
5	GUIDE	used	106583816	7.05	10151	-0.084	0.067	0.095	0.143	131.782627	11.419668	-426.59	-1725.01
6	GUIDE	used	106574472	9.13	10084	0.018	-0.035	0.103	0.164	132.394415	11.857138	-2141.88	322.26
7	GUIDE	used	106577976	8.56	10146	0.049	0.021	0.085	0.135	132.577570	11.407845	-572.16	1076.69

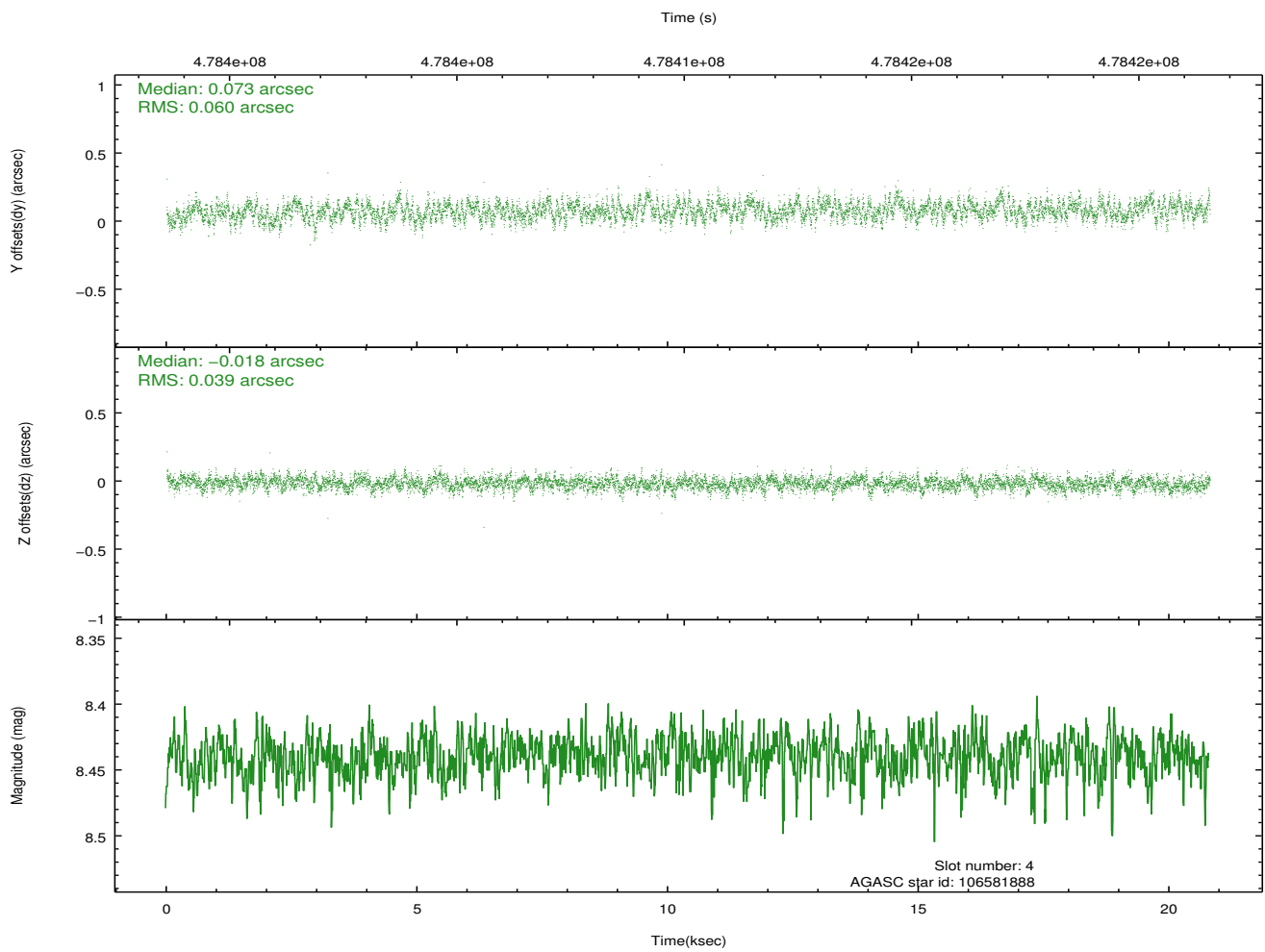
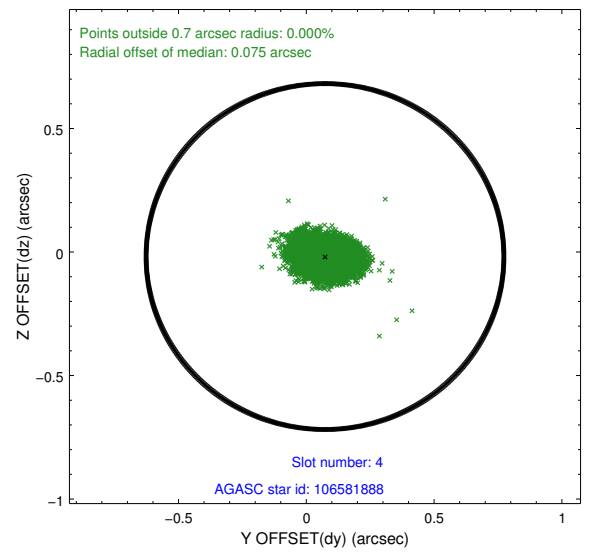
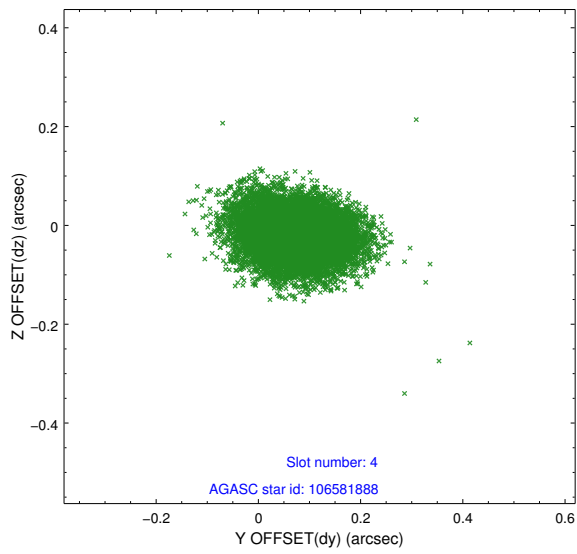
∞

2.4 Star Slots

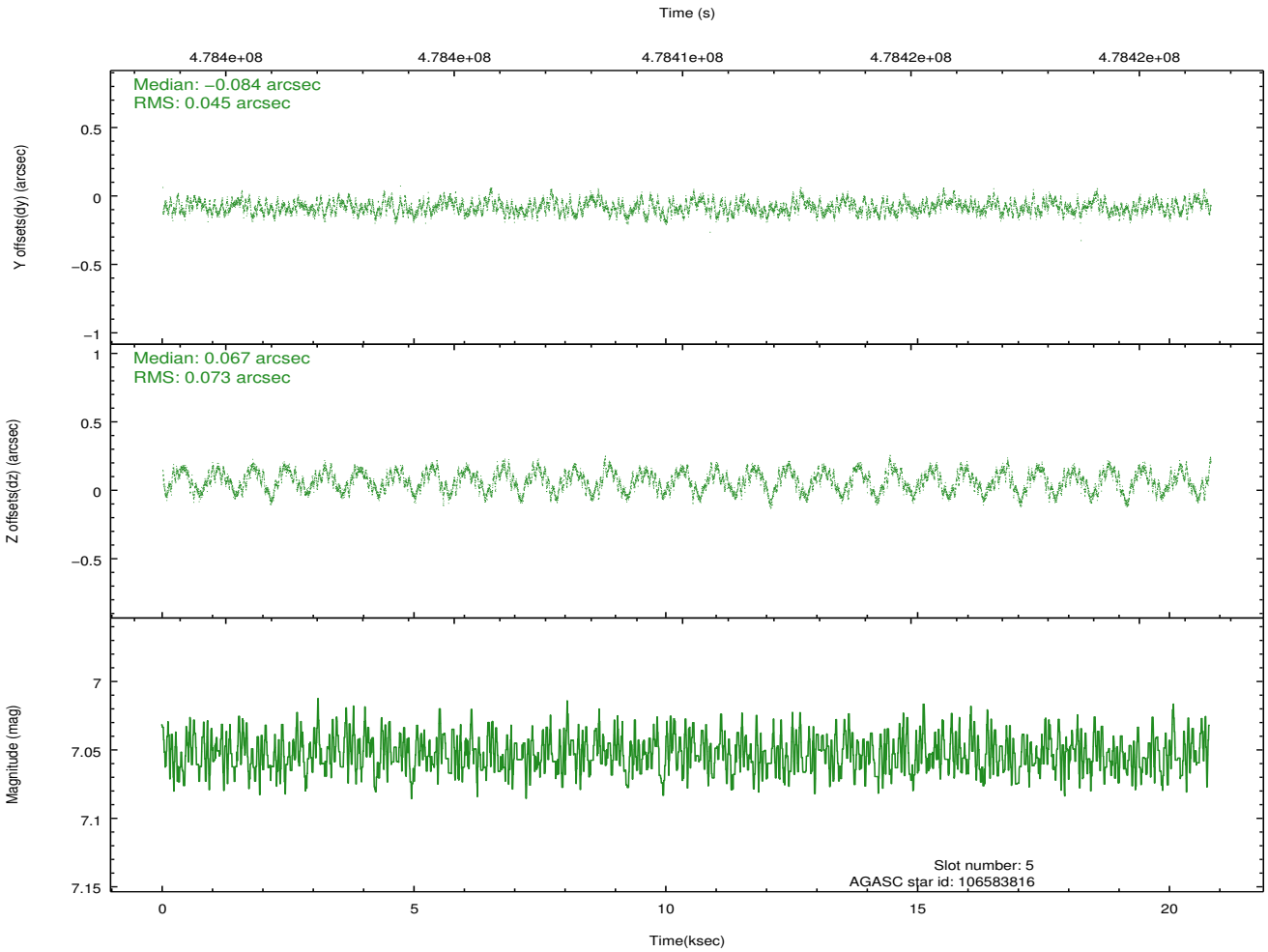
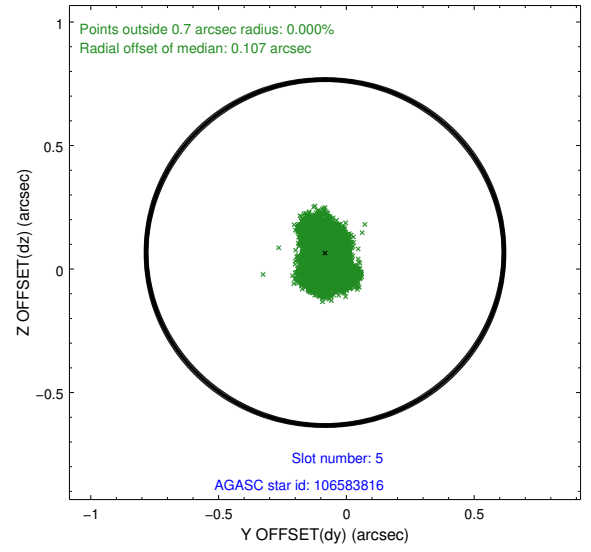
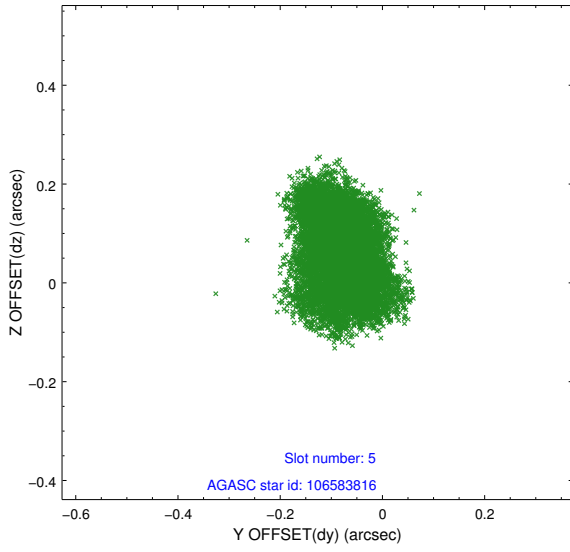
2.4.1 Slot 3



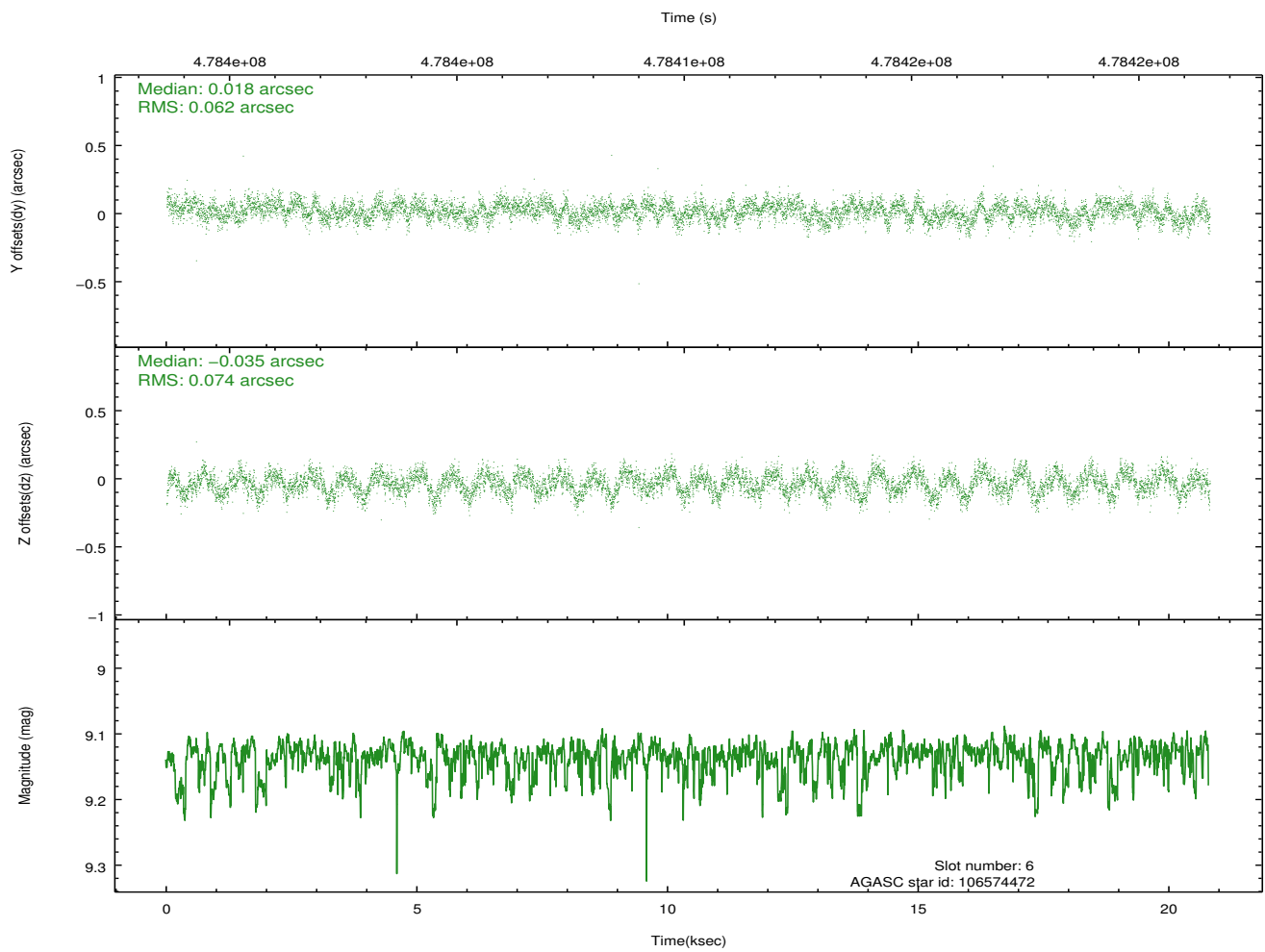
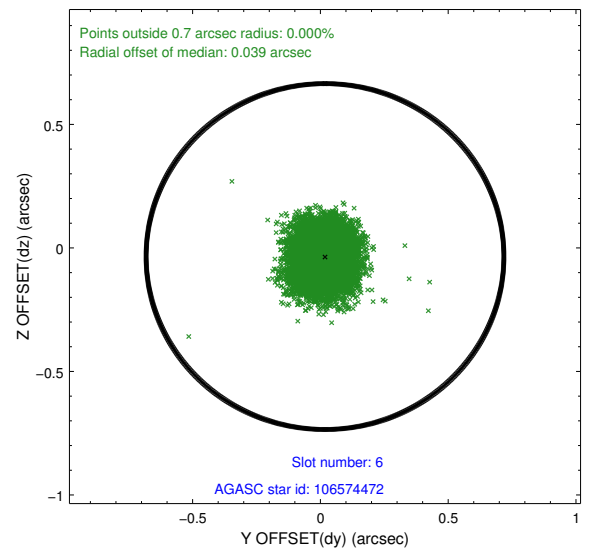
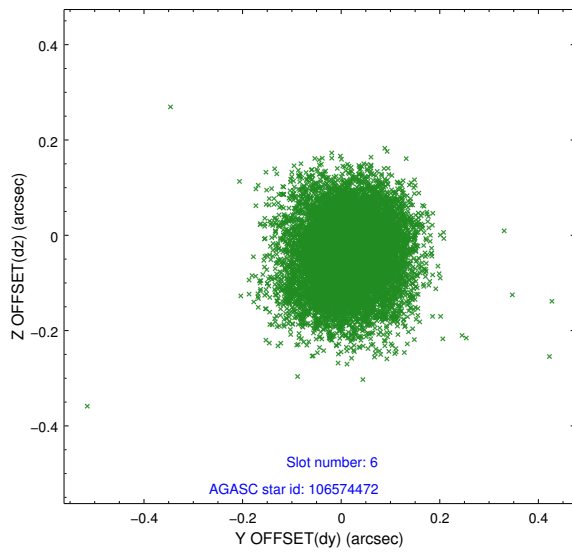
2.4.2 Slot 4



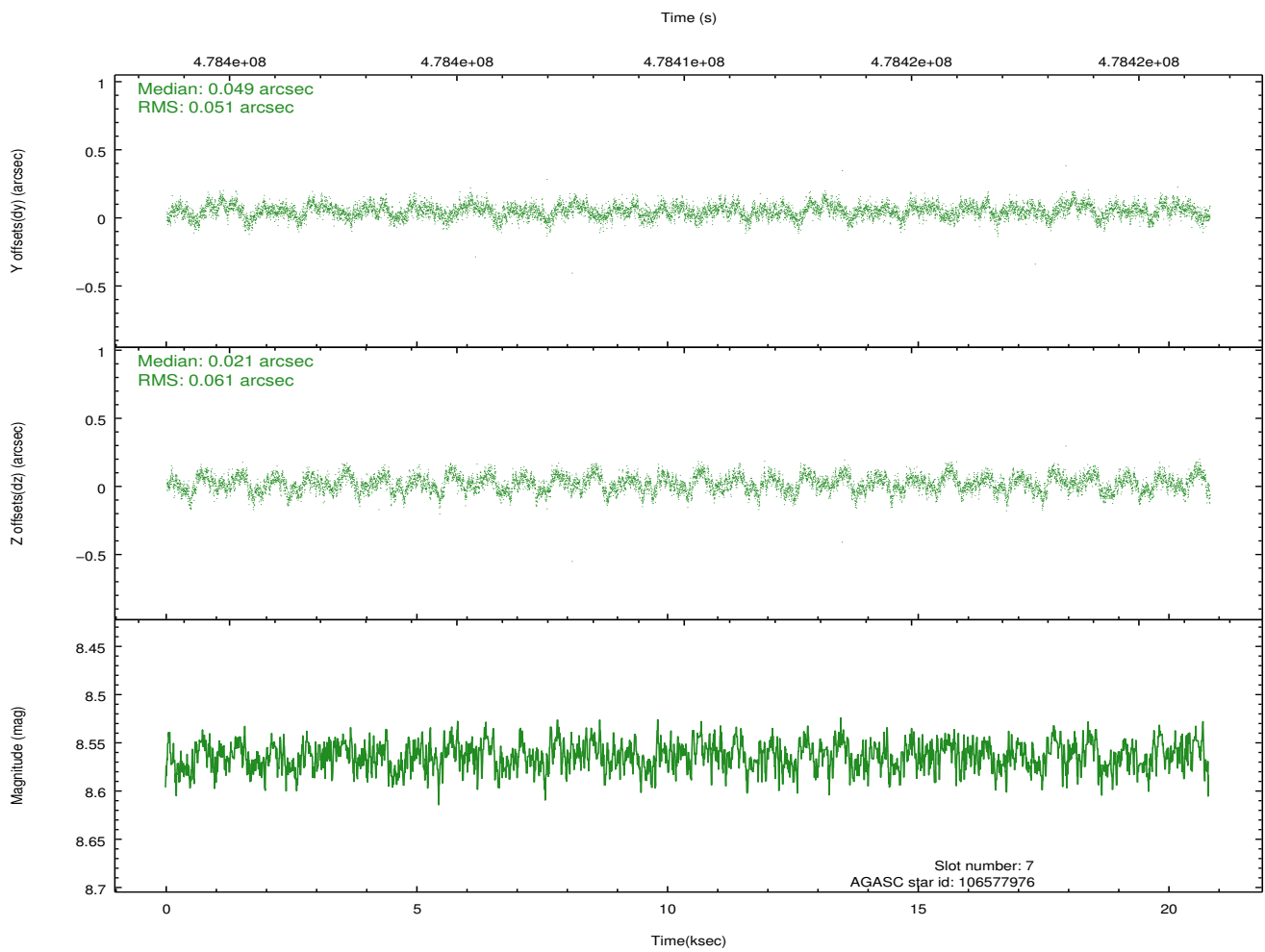
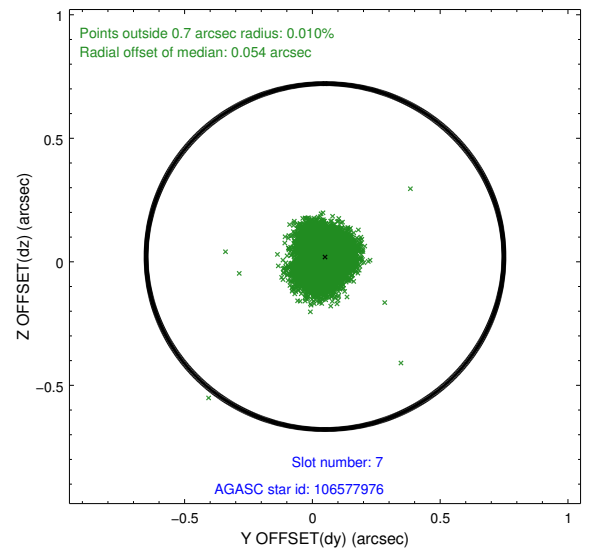
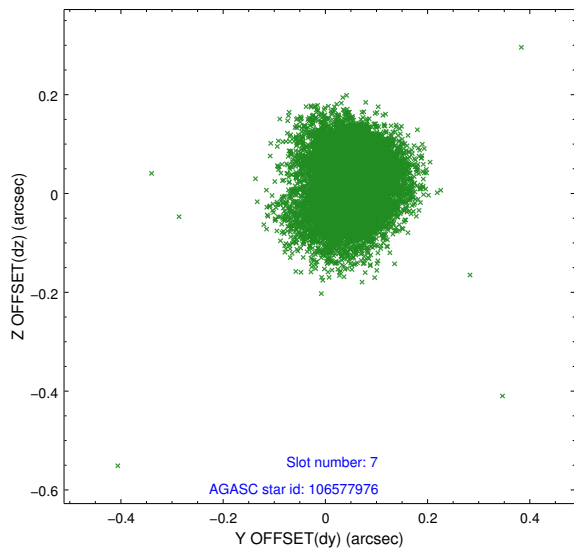
2.4.3 Slot 5



2.4.4 Slot 6

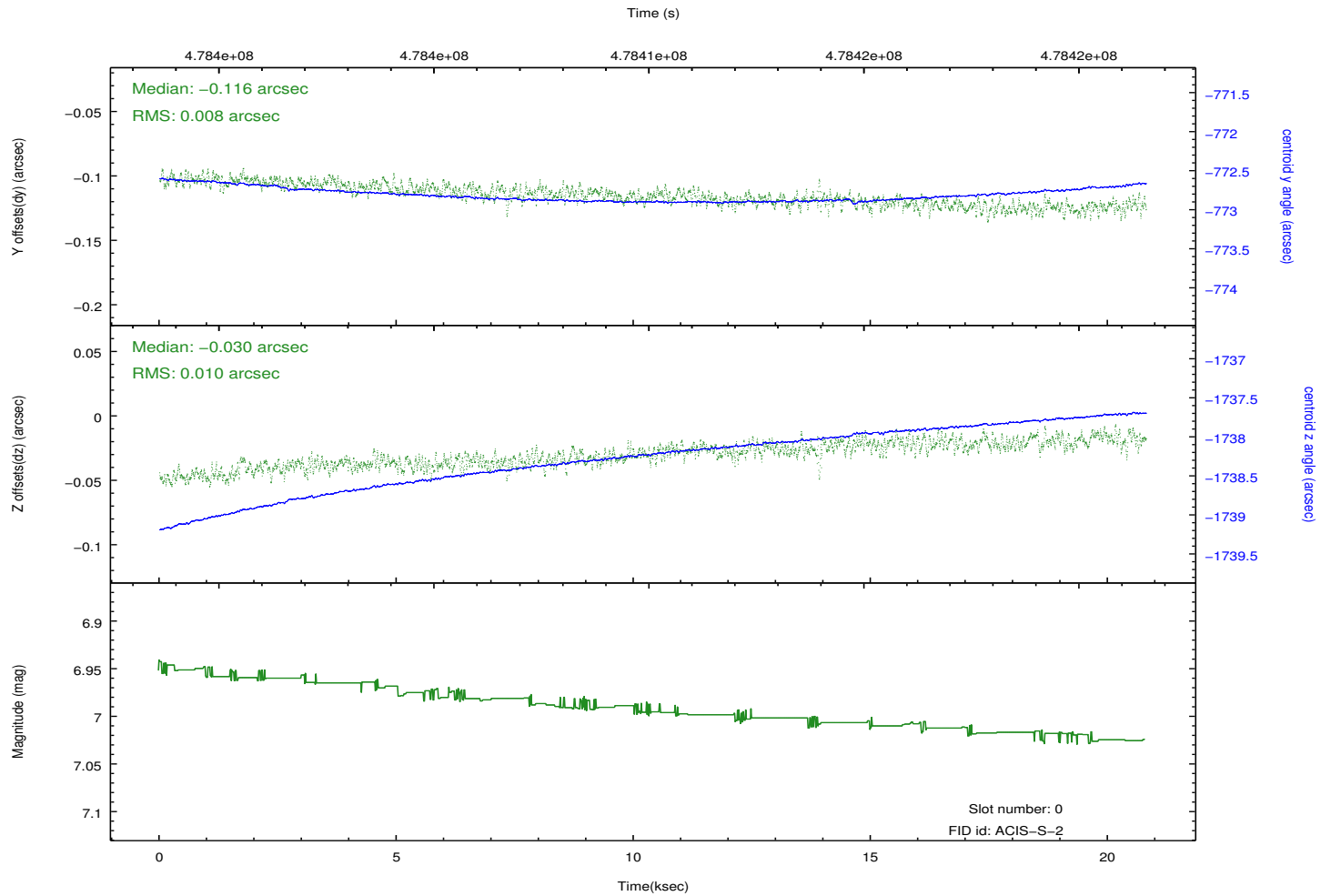
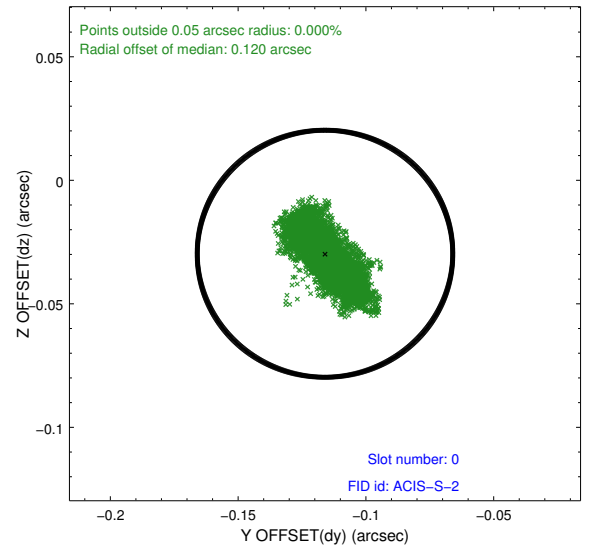
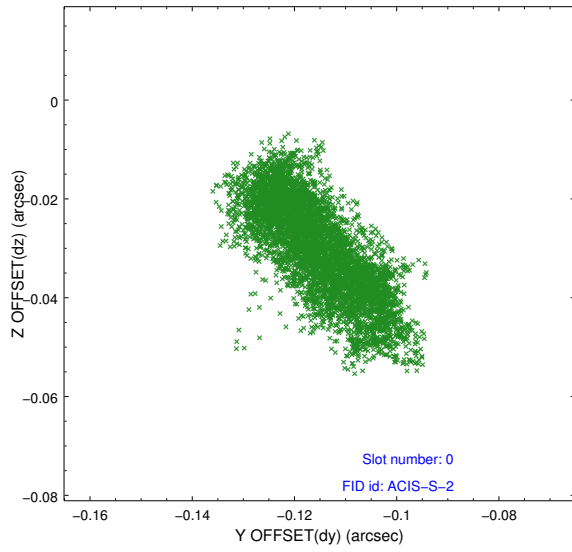


2.4.5 Slot 7

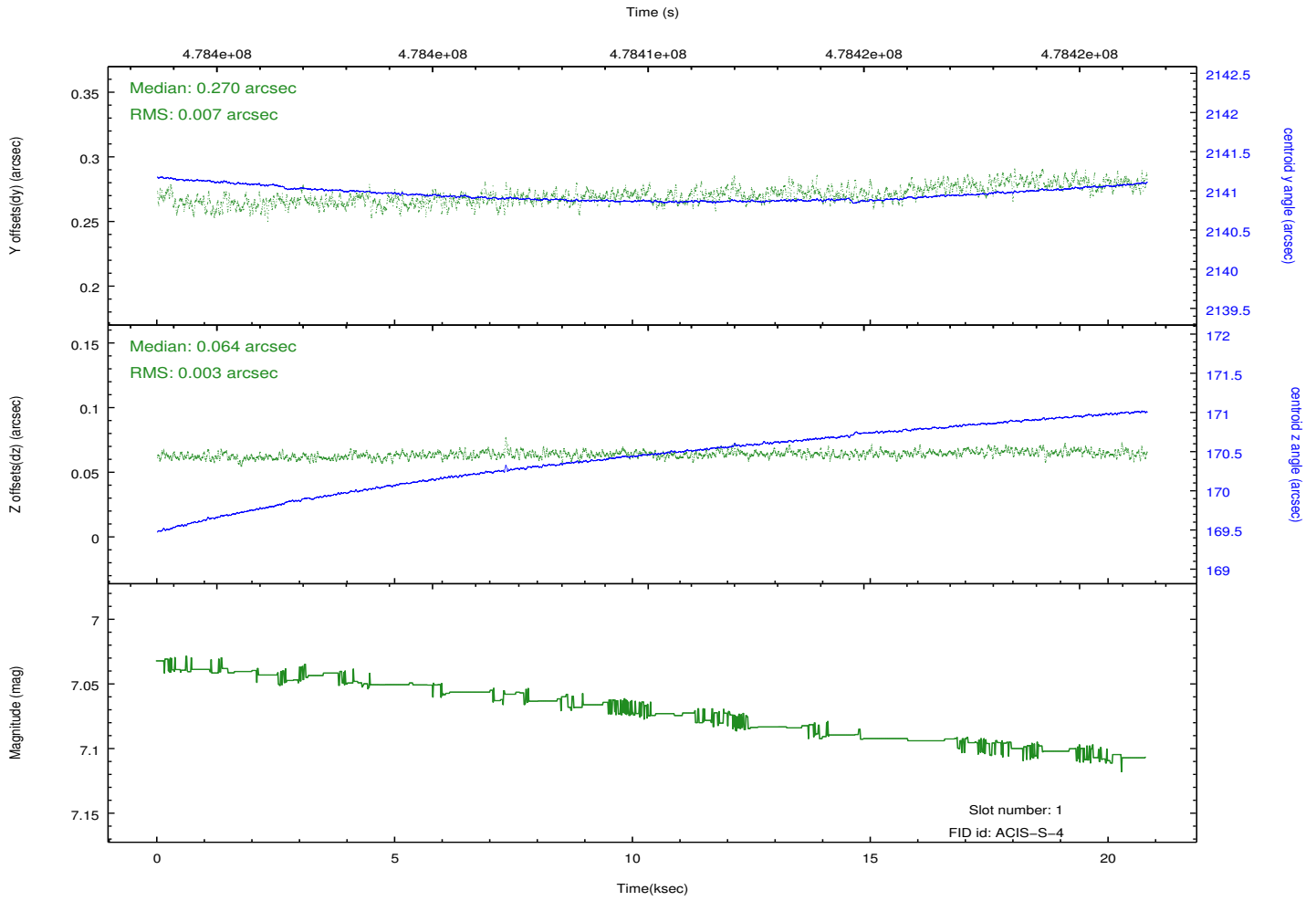
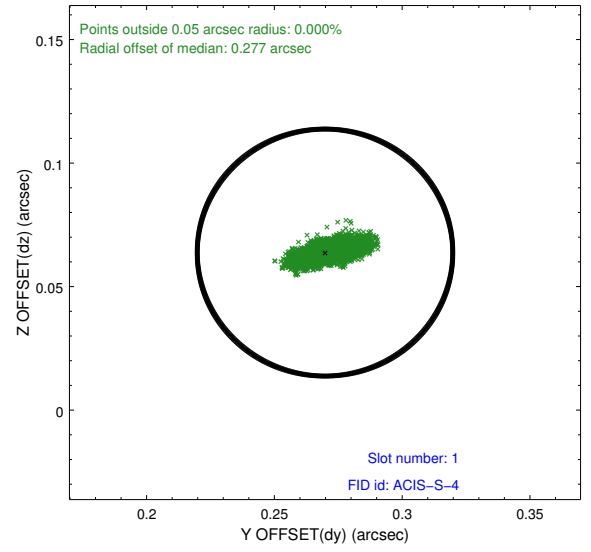
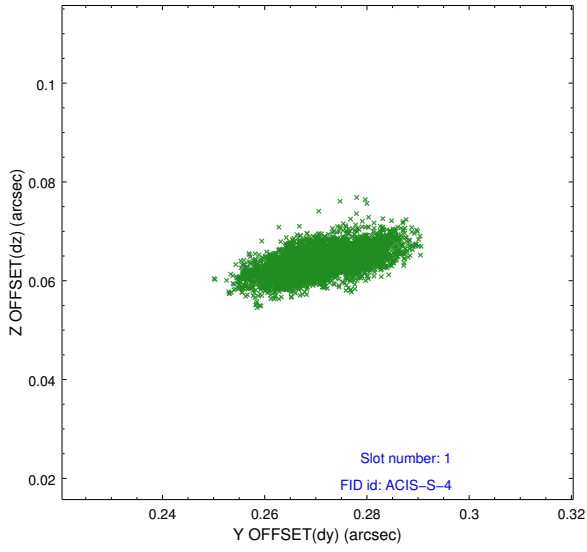


2.5 FID Slots

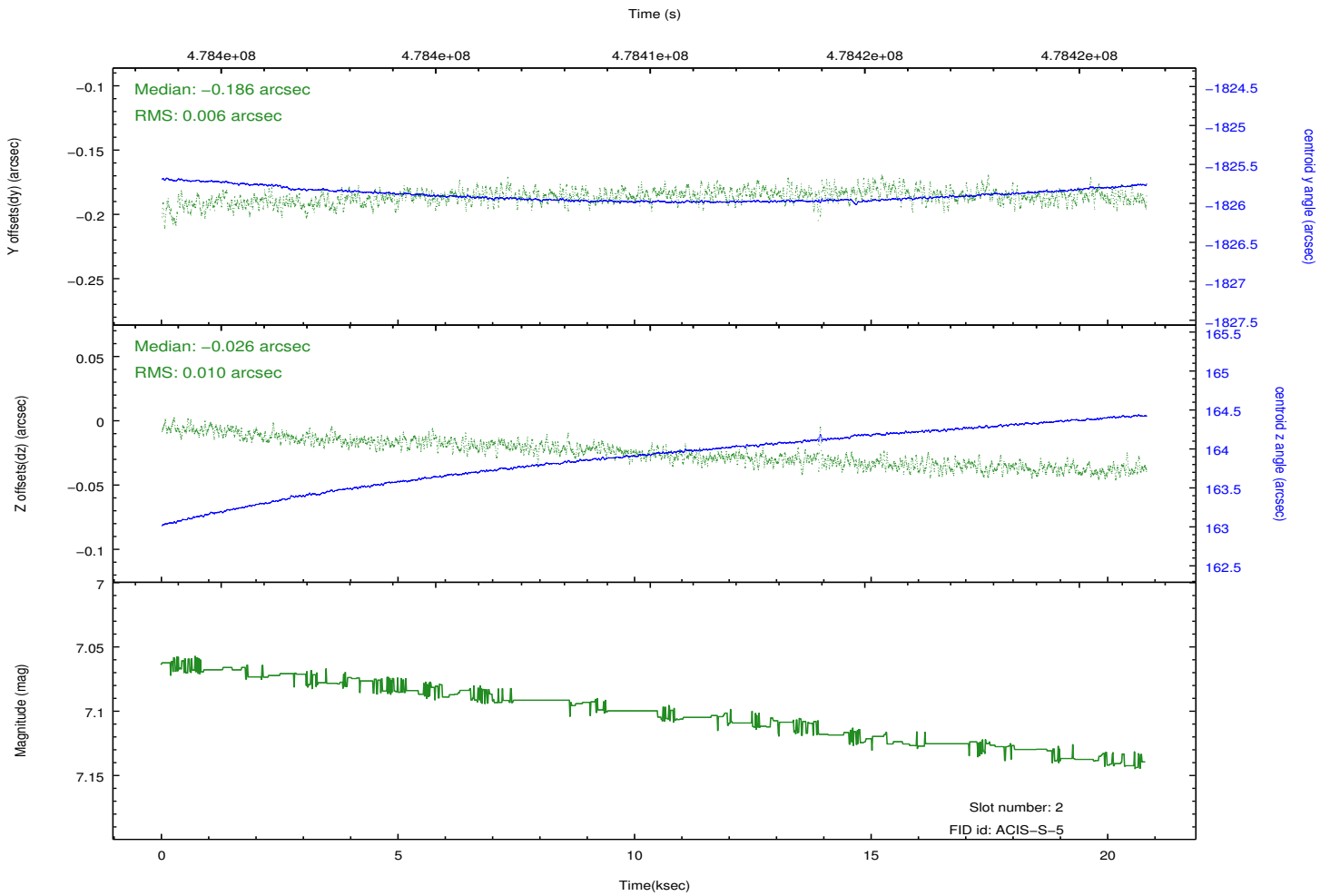
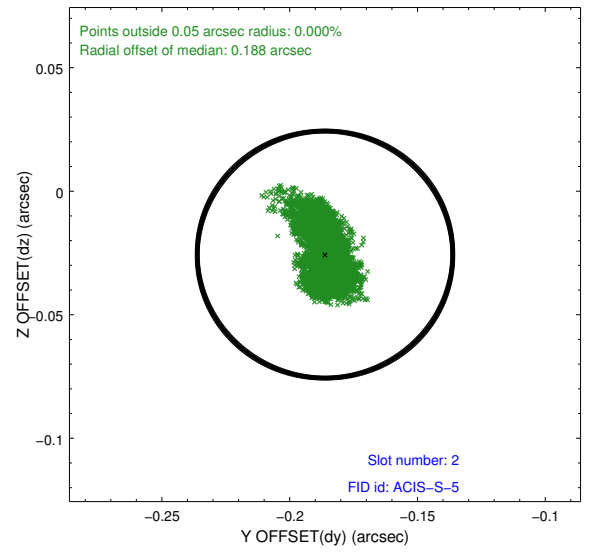
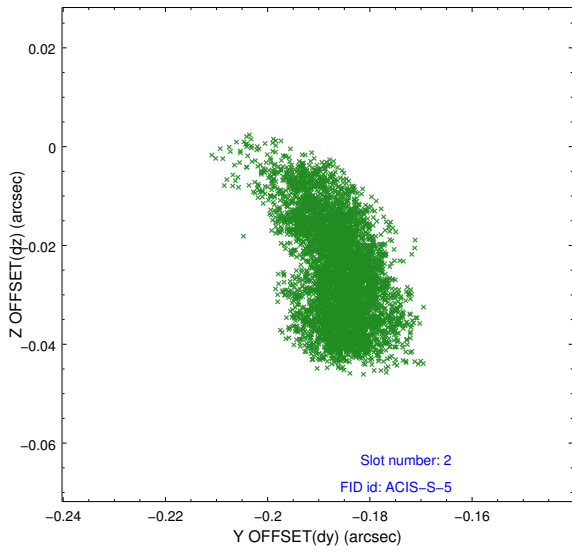
2.5.1 Slot 0



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	20.065583947837

A.2 Comments

Joint proposal with HST and NRAO.

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.