

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13874 - L2 Version 2
Chandra X-Ray Center

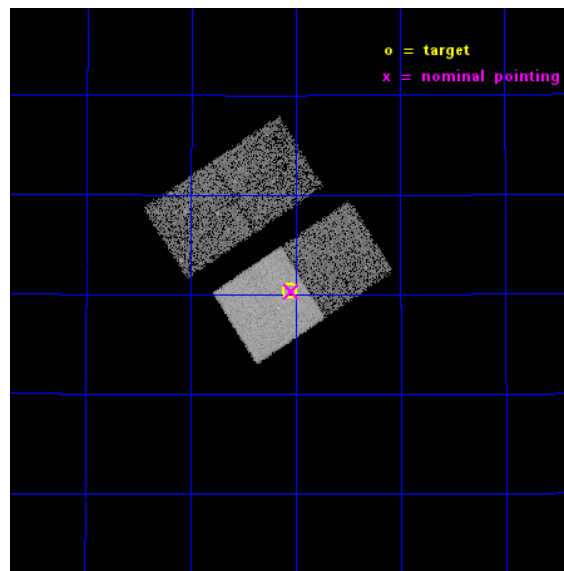
L2 Processing Date : Nov 29 2014

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1 Front

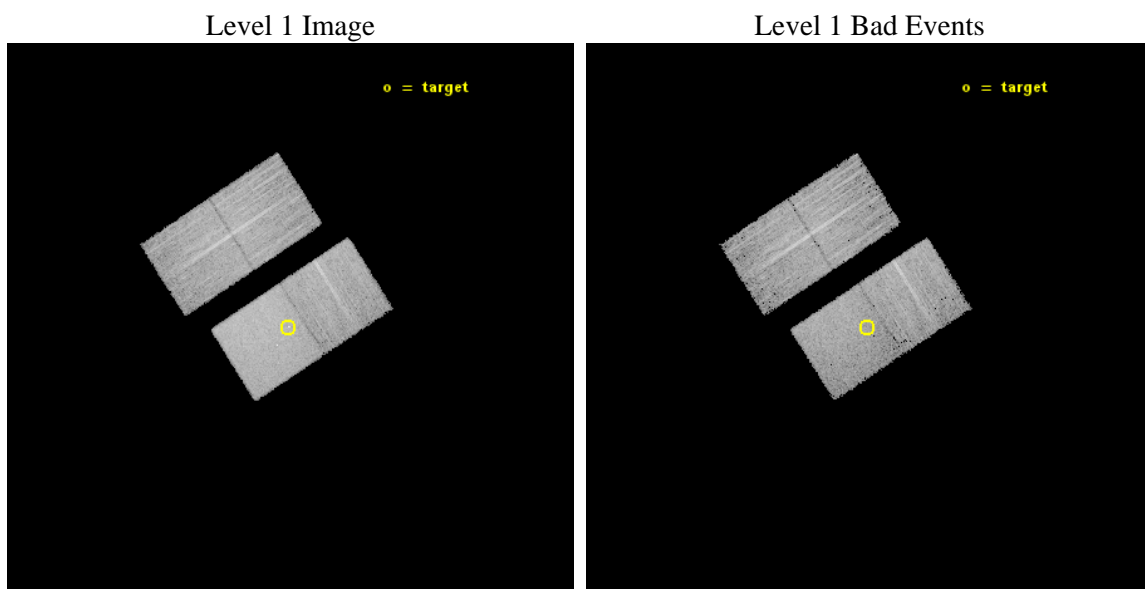
seq_num	702599	Sequence number
obs_id	13874	Observation id
title	Extending the Chandra 3C Snapshot Survey: Radio Galaxies with 0.3	Proposal title
observer	Dr. Francesco Massaro	Principal investigator
object	3c103	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	62.01375	Observer's specified target RA [deg]
dec_targ	43.006667	Observer's specified target Dec [deg]
ra_nom	62.009984489209	Nominal RA [deg]
dec_nom	43.005398404589	Nominal Dec [deg]
roll_nom	147.08086737297	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12074.500092864	Sum of GTIs [s]
livetime	11916.737860033	Livetime [s]
ontime2	12071.359122455	Sum of GTIs [s]
ontime3	12074.500092864	Sum of GTIs [s]
ontime6	12074.500092864	Sum of GTIs [s]
ontime7	12074.500092864	Sum of GTIs [s]
l2events	57746	Number of level 2 events



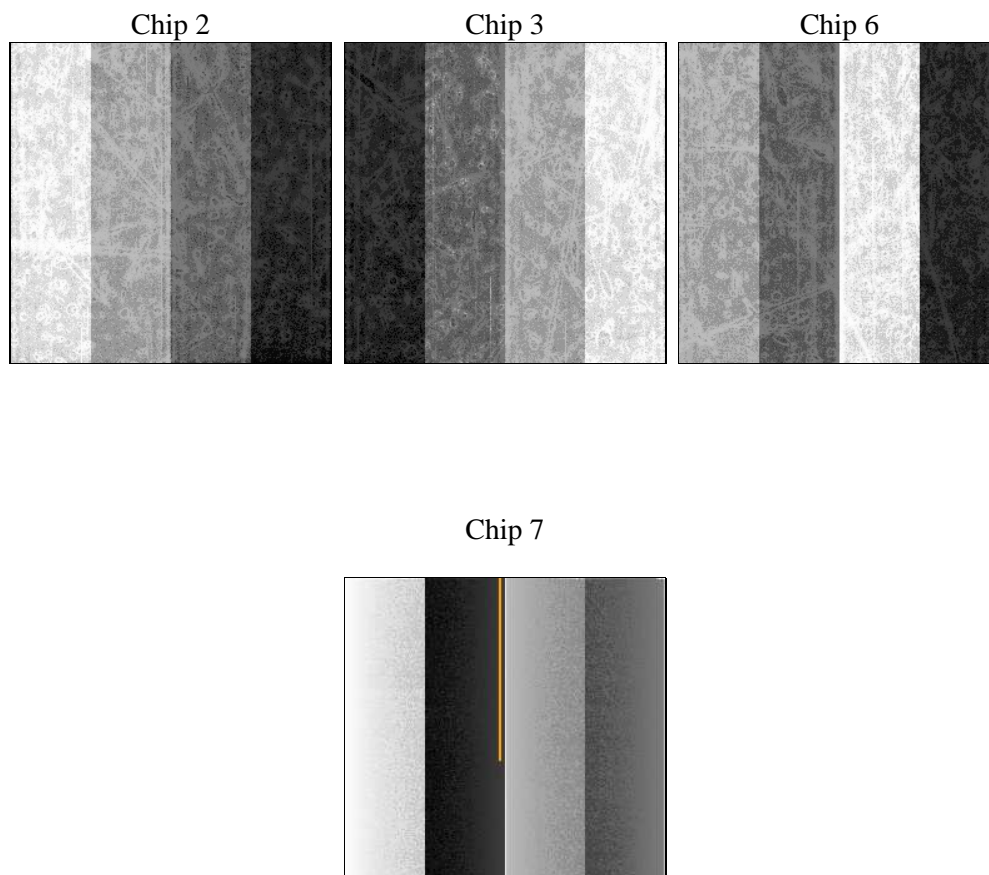
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	12074.500092864	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	12071.359122455	Sum of GTIs [s]
date	2014-11-29T07:41:24	Date and time of file creation	ontime3	12074.500092864	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	12074.500092864	Sum of GTIs [s]
			ontime7	12074.500092864	Sum of GTIs [s]
			l1events	280244	Number of level 1 events

2.1.4 Events

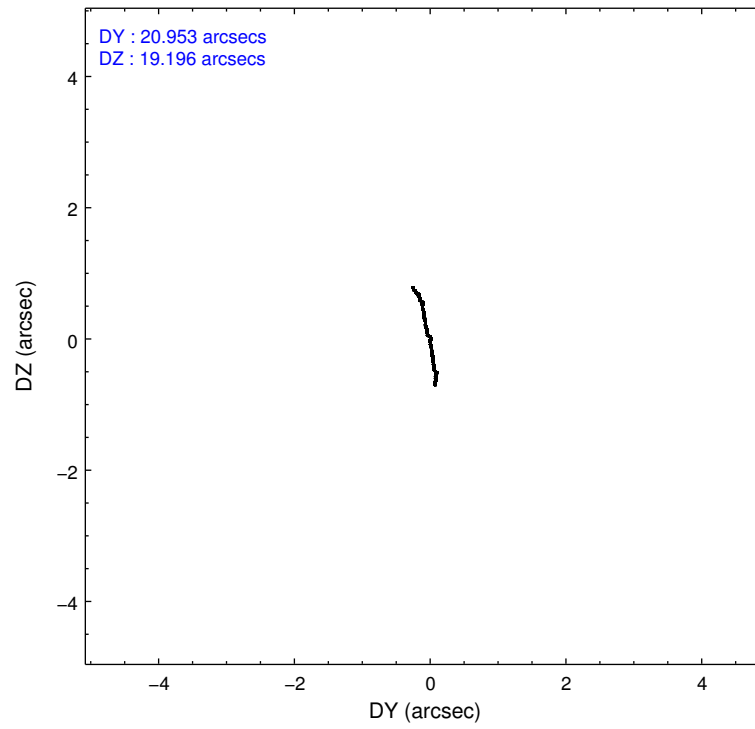
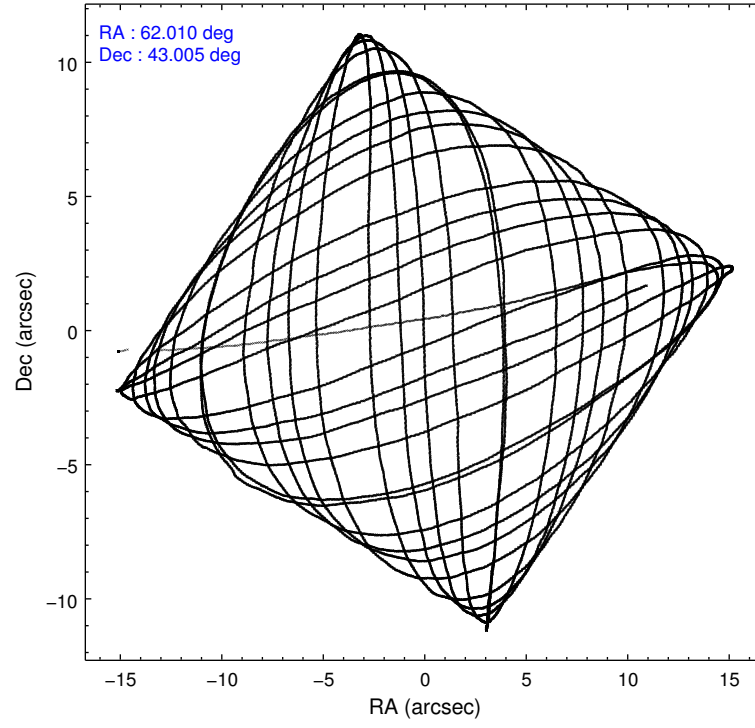
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	65762	62026	64388	88068
rejected events	58293	54821	56476	48840
rejected %	88%	88%	87%	55%

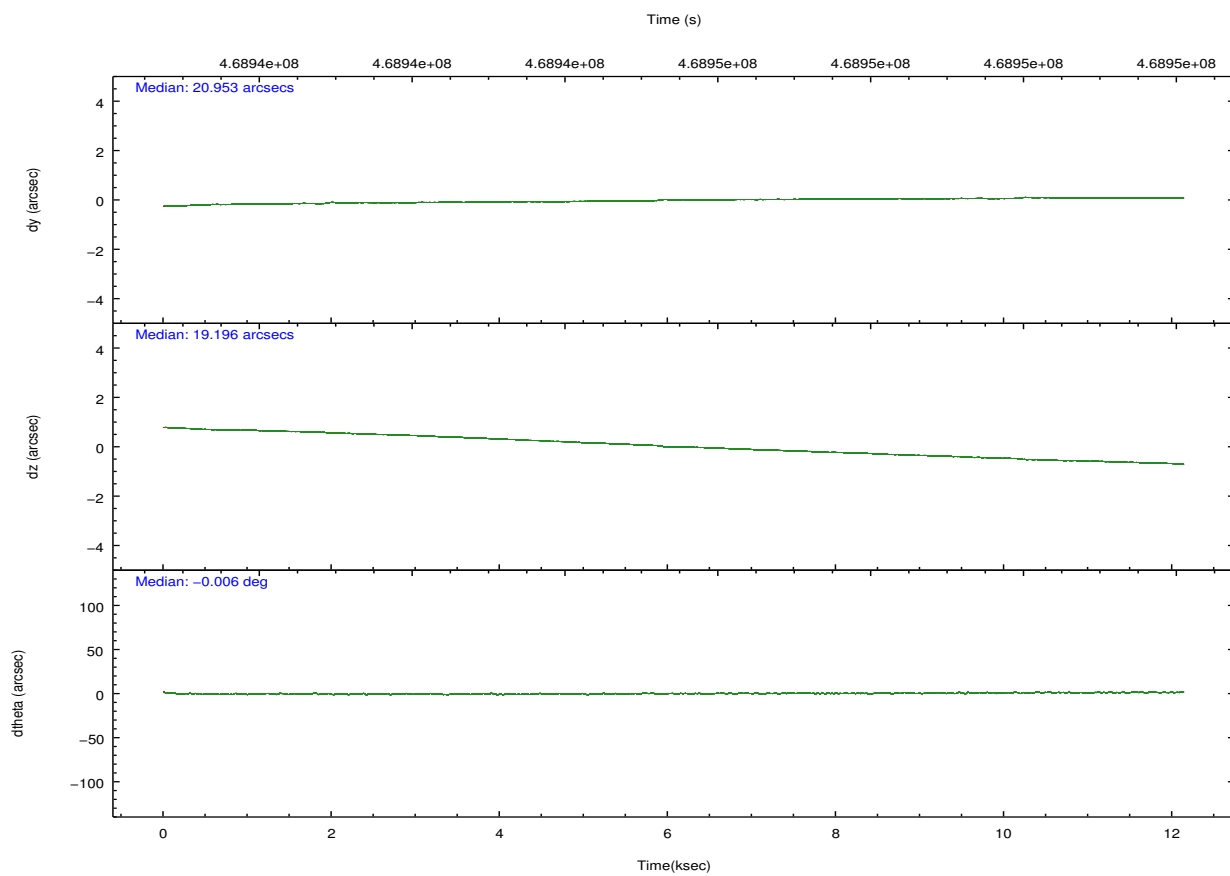
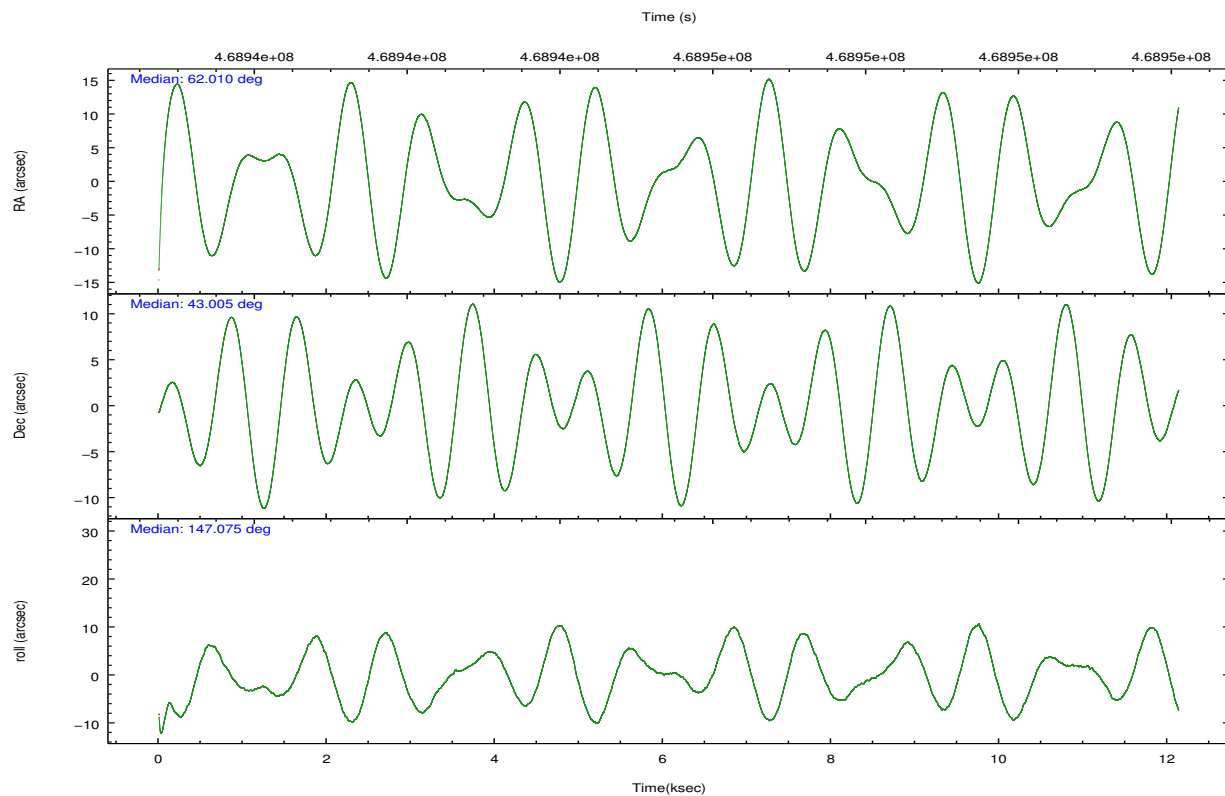
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2578	2467	2628	3582
	3%	3%	4%	4%
grade 1 events	44	30	37	98
	0%	0%	0%	0%
grade 2 events	1842	1611	1843	8120
	2%	2%	2%	9%
grade 3 events	781	823	806	3491
	1%	1%	1%	3%
grade 4 events	752	821	766	3468
	1%	1%	1%	3%
grade 5 events	2952	3287	3378	9165
	4%	5%	5%	10%
grade 6 events	1519	1488	1874	20593
	2%	2%	2%	23%
grade 7 events	55294	51499	53056	39551
	84%	83%	82%	44%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	62.047346	62.00998448920852	CCD I2 on	O1	Y
[deg] Pointing Dec	43.004384	43.00539840458914	CCD I3 on	O2	Y
[deg] Pointing Roll	146.898773	147.0808673729693	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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)	468939503.184000	468938359.46443	CCD S5 on	N	N
Observation start date	2012-11-10T12:57:16	2012-11-10T12:39:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	468951503.184000	468952435.27768	On-chip summing requested	N	N
Observation end date	2012-11-10T16:17:16	2012-11-10T16:33:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



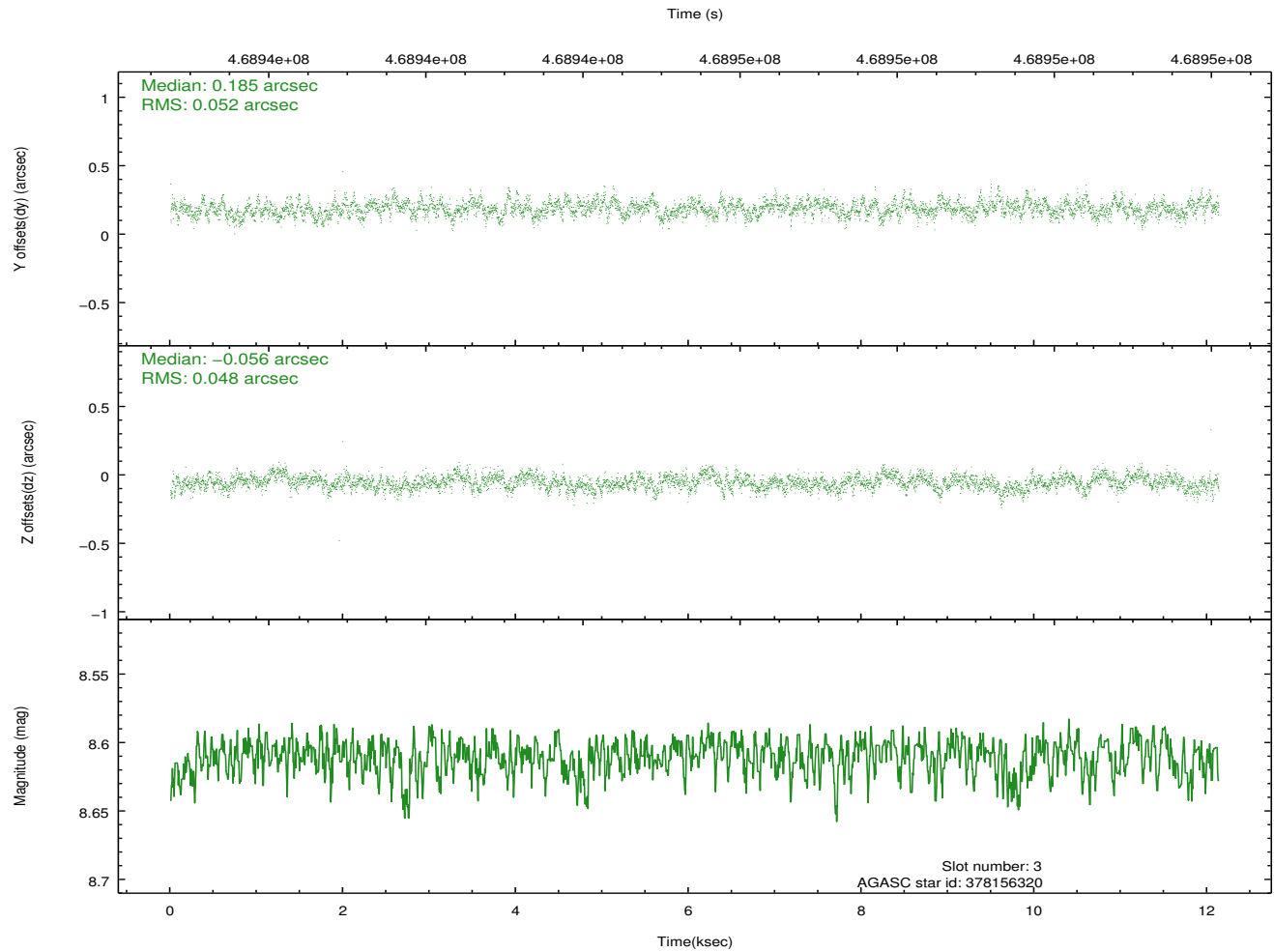
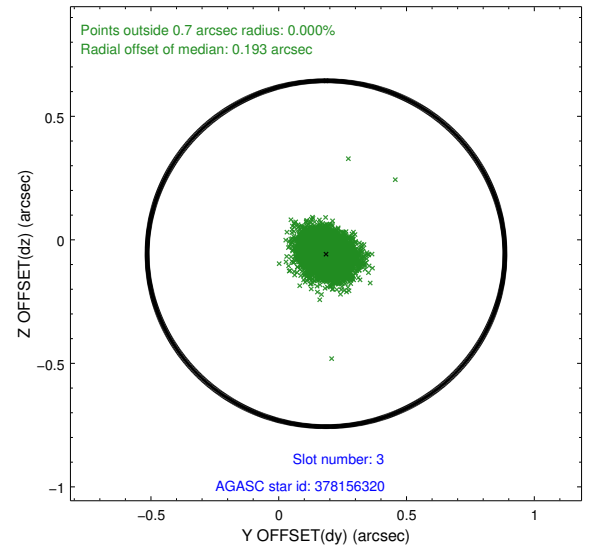
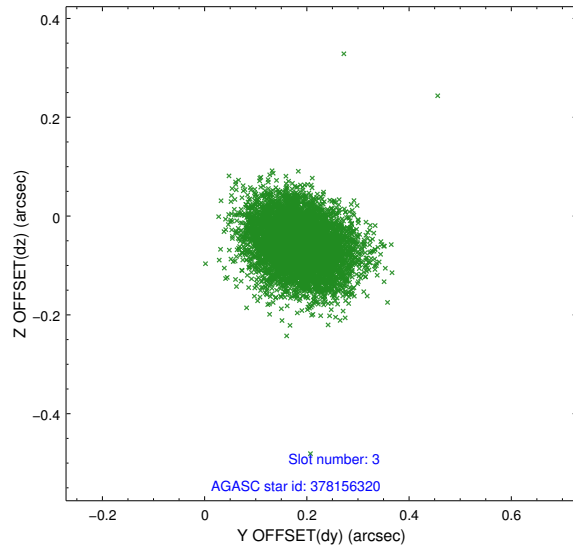


Slot Statistics

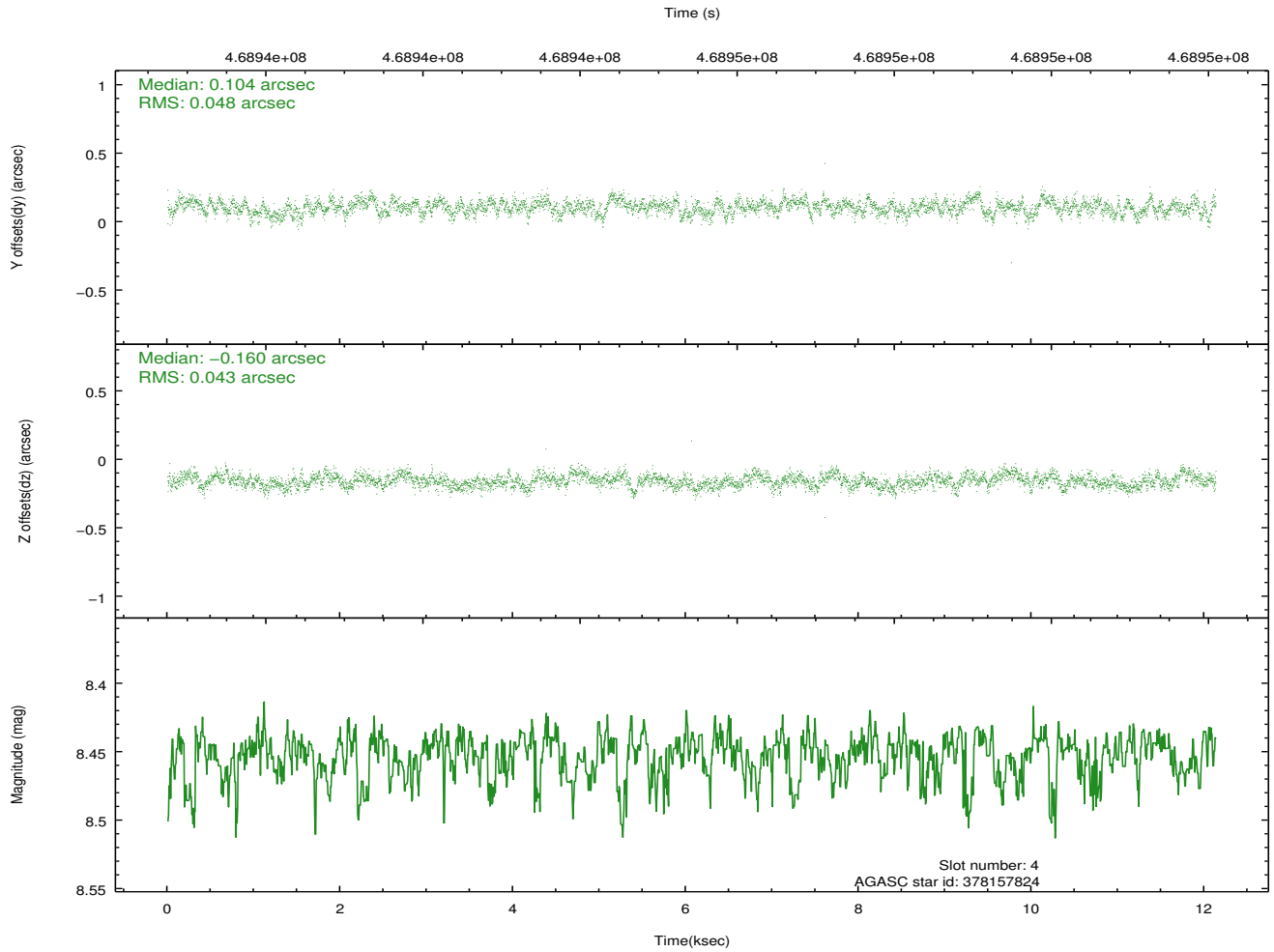
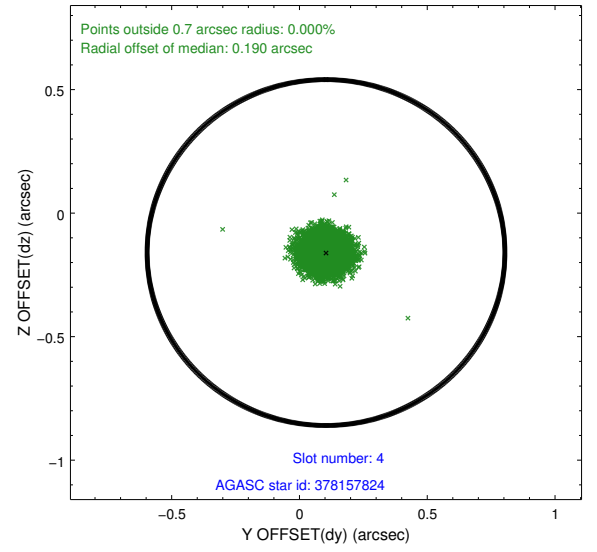
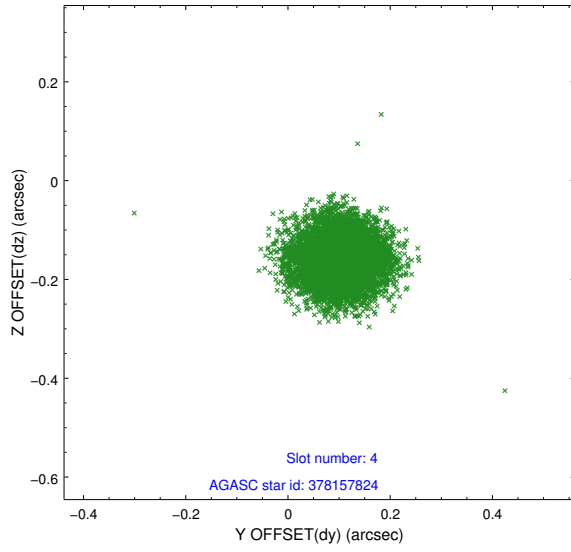
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.01	2959	0.057	-0.002	0.013	0.035	0.000000	0.000000	922.06	-1736.29
1	FID		ACIS-S-5	7.05	2960	-0.133	0.037	0.010	0.016	0.000000	0.000000	-1826.92	160.85
2	FID		ACIS-S-6	7.15	2960	0.056	-0.027	0.019	0.043	0.000000	0.000000	387.14	805.24
3	GUIDE	used	378156320	8.61	5919	0.185	-0.056	0.075	0.120	62.496221	42.584744	-1819.83	613.40
4	GUIDE	used	378157824	8.45	5914	0.104	-0.160	0.069	0.108	62.373438	42.508419	-1699.09	1021.85
5	GUIDE	used	378689112	7.32	5917	-0.169	0.179	0.058	0.101	62.172035	43.684223	1065.31	-2227.25
6	GUIDE	used	378691592	8.74	5915	-0.179	0.006	0.076	0.126	61.698192	43.215254	1183.19	-137.22
7	GUIDE	used	378668184	7.07	5916	0.059	0.033	0.098	0.152	62.054632	43.191136	351.54	-573.20

2.4 Star Slots

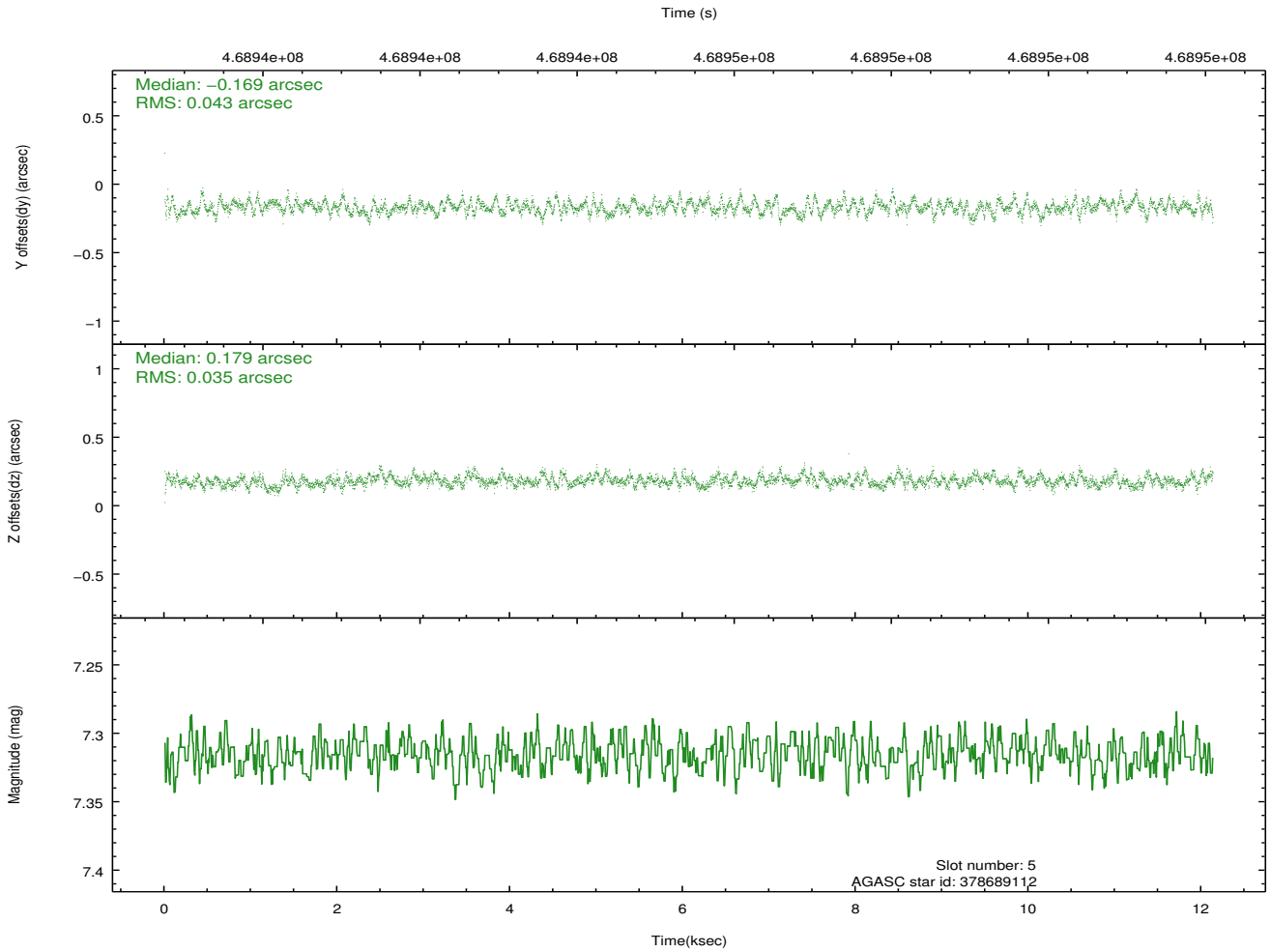
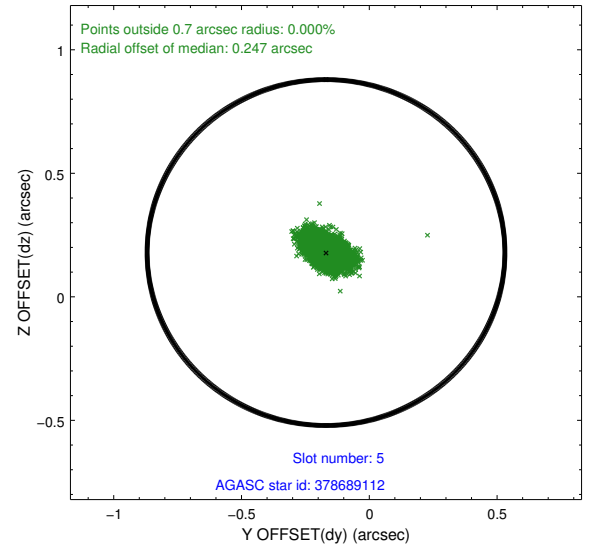
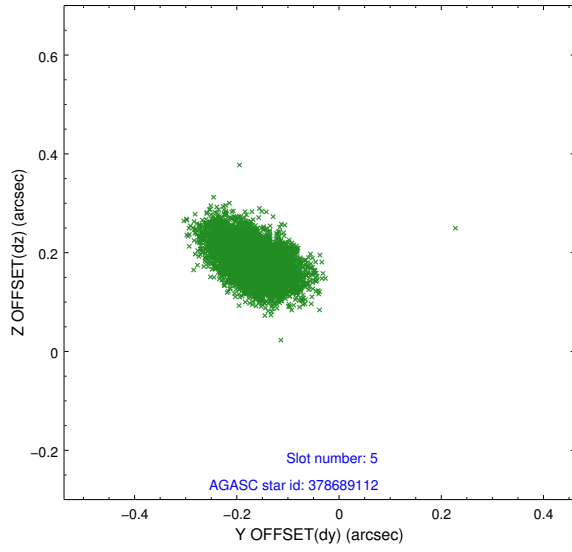
2.4.1 Slot 3



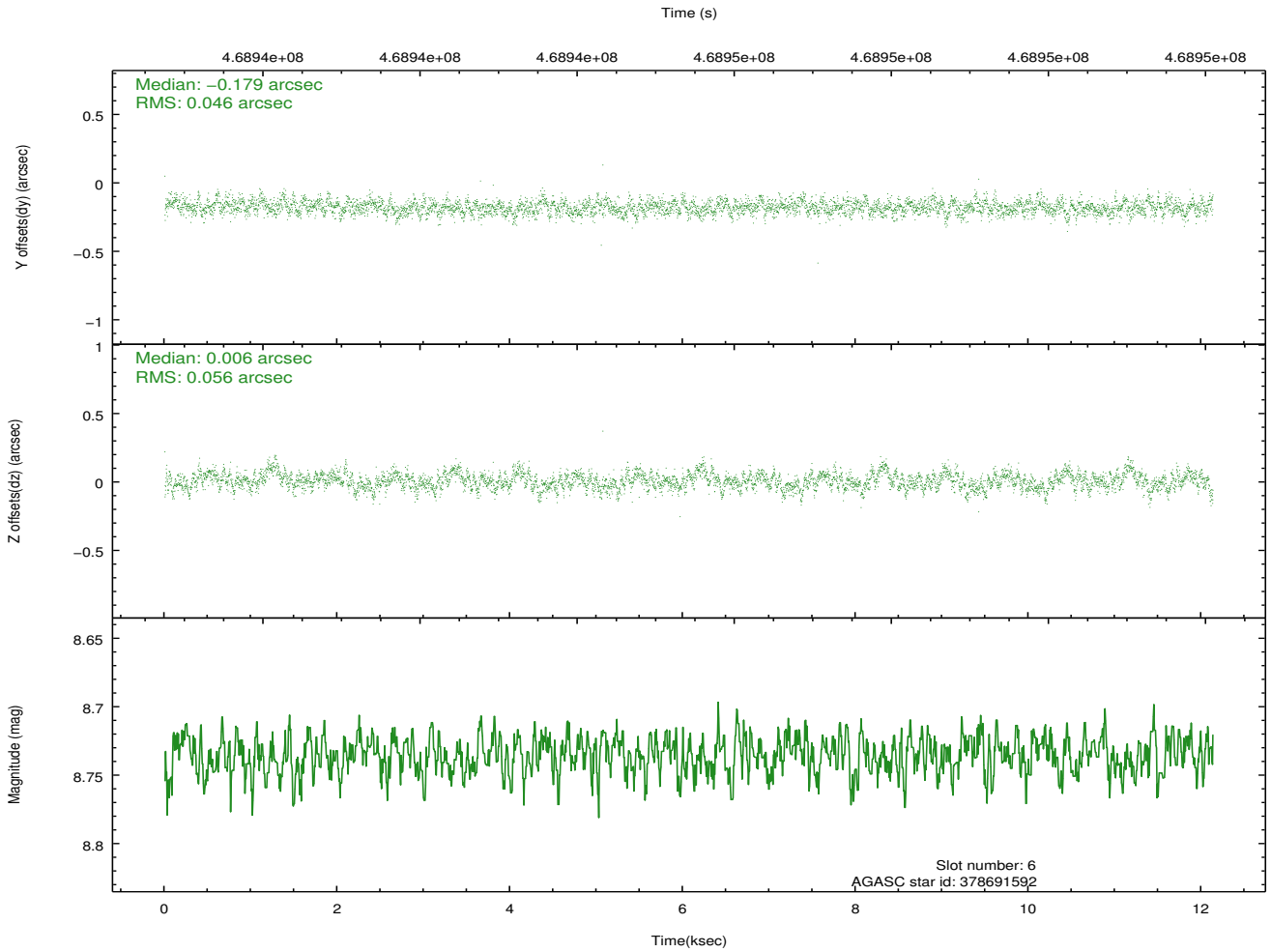
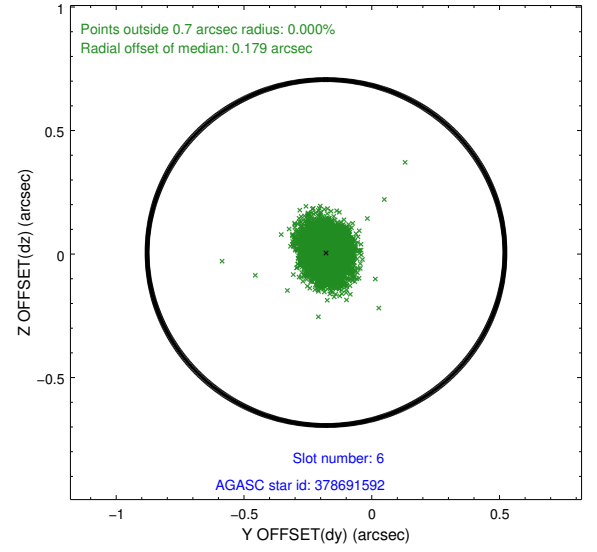
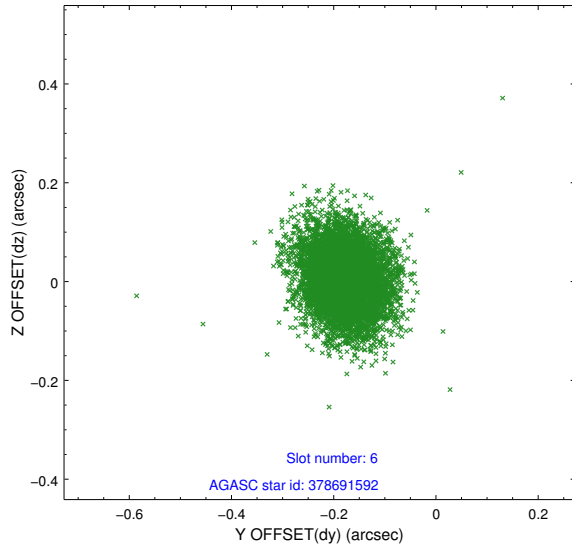
2.4.2 Slot 4



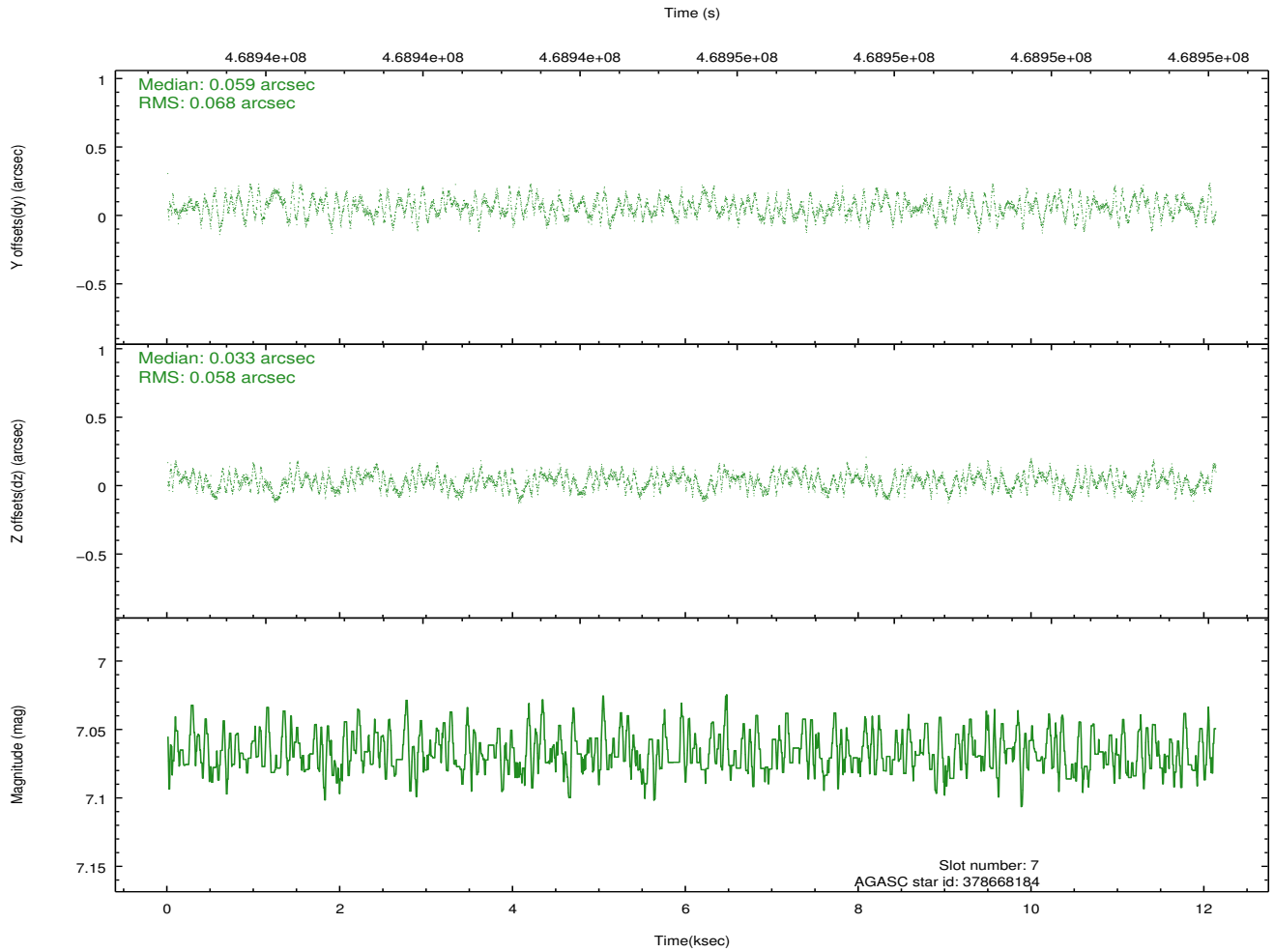
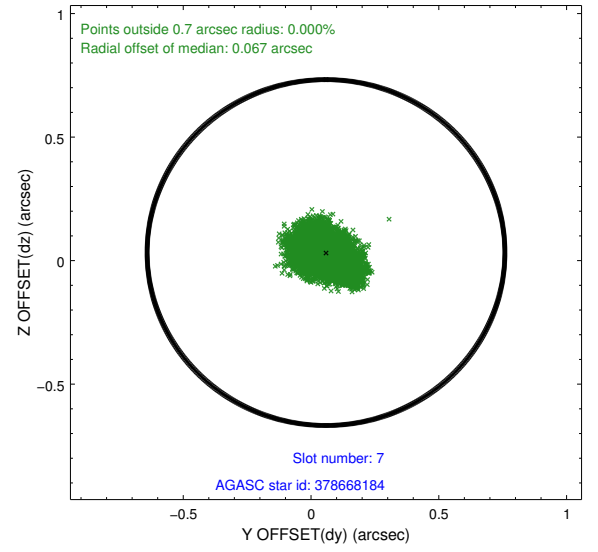
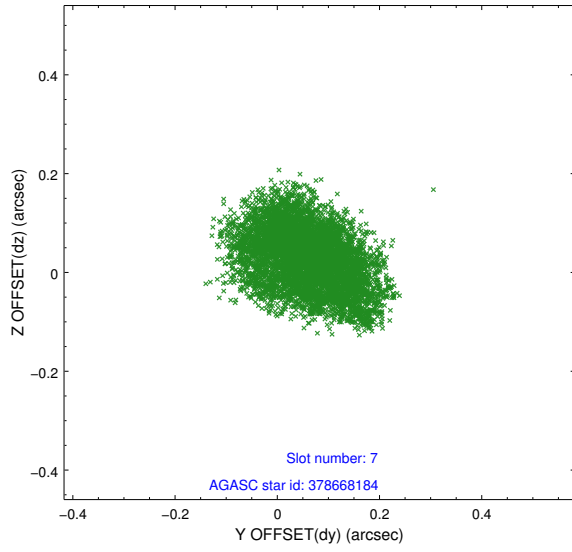
2.4.3 Slot 5



2.4.4 Slot 6

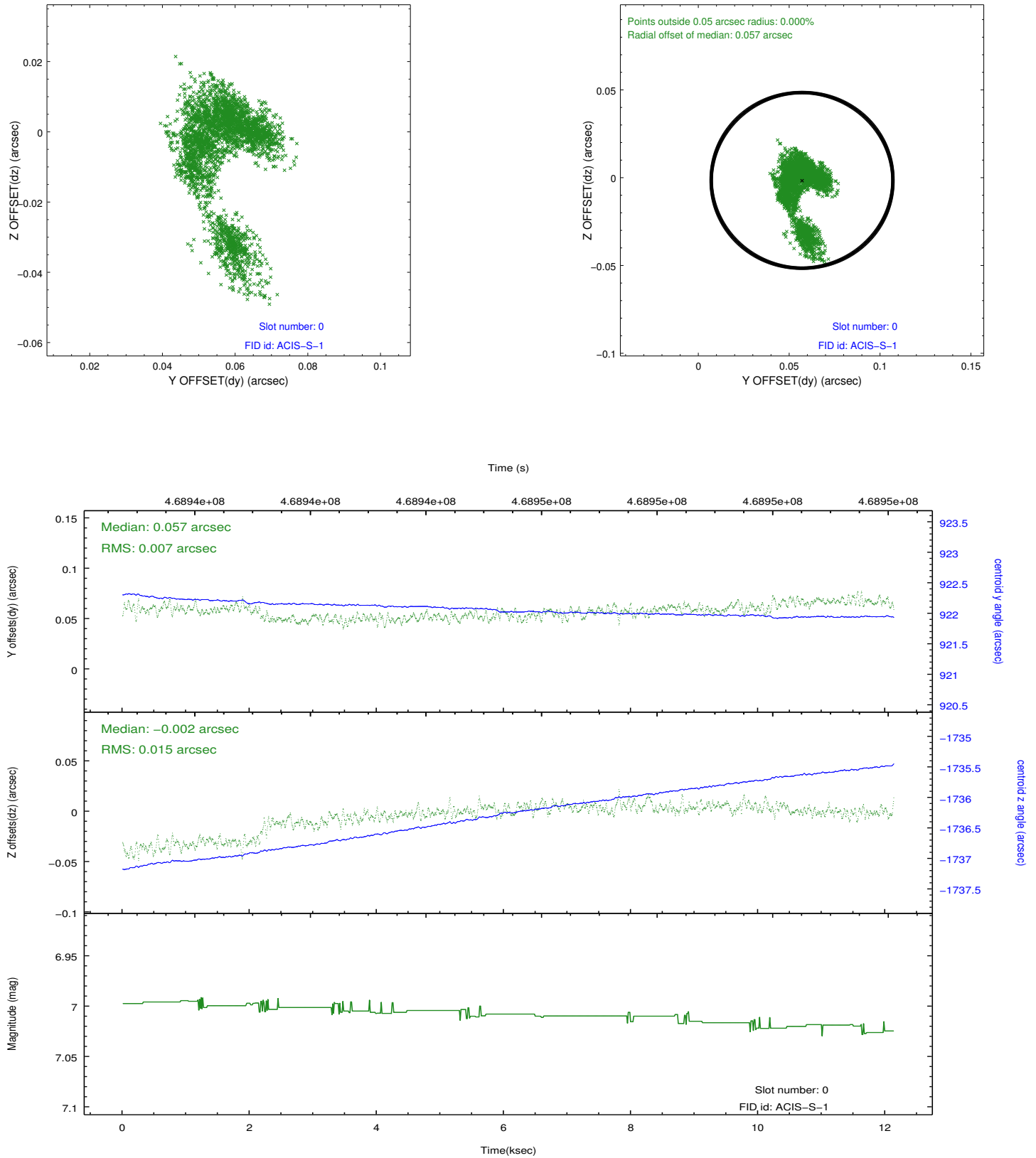


2.4.5 Slot 7

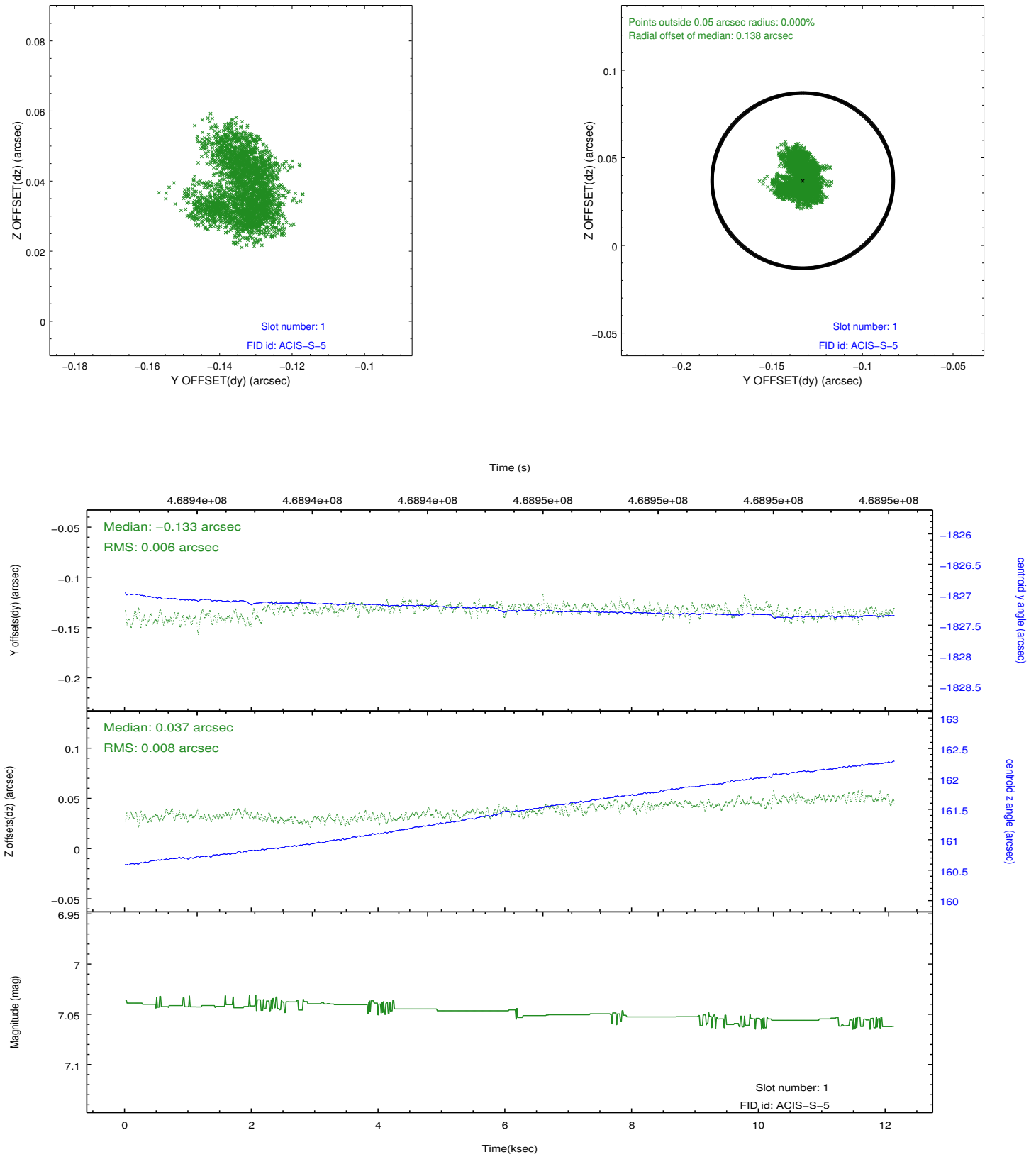


2.5 FID Slots

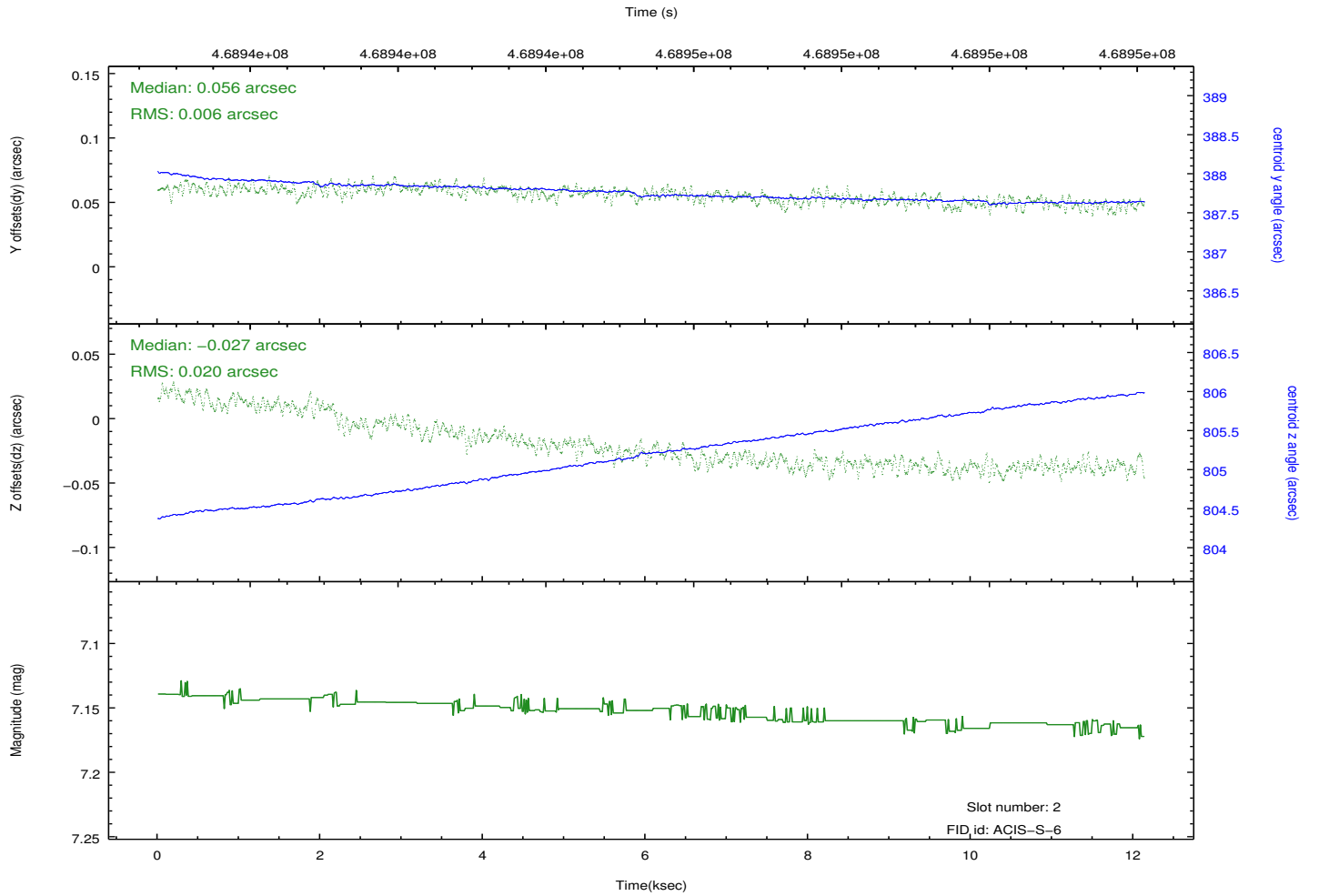
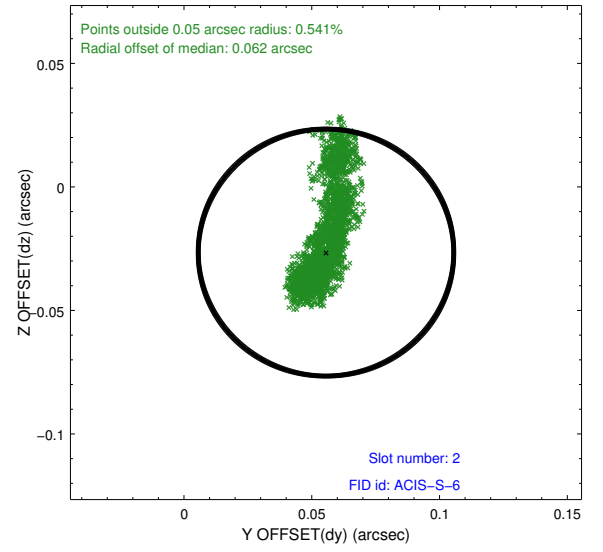
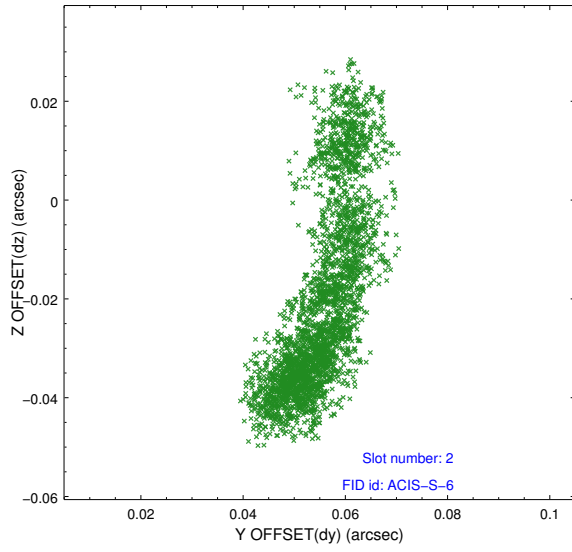
2.5.1 Slot 0



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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.074500092864

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.