

V&V Reference Report

L2 ASCDS Version : 10

Observation 15009 - L2 Version 2
Chandra X-Ray Center

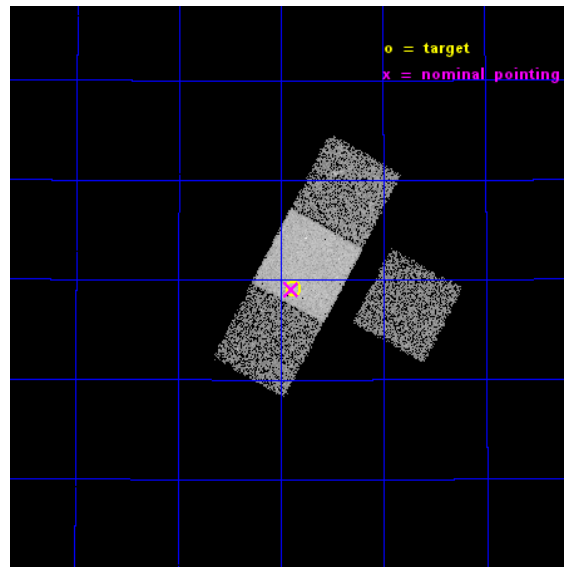
L2 Processing Date : Dec 6 2014

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1 Front

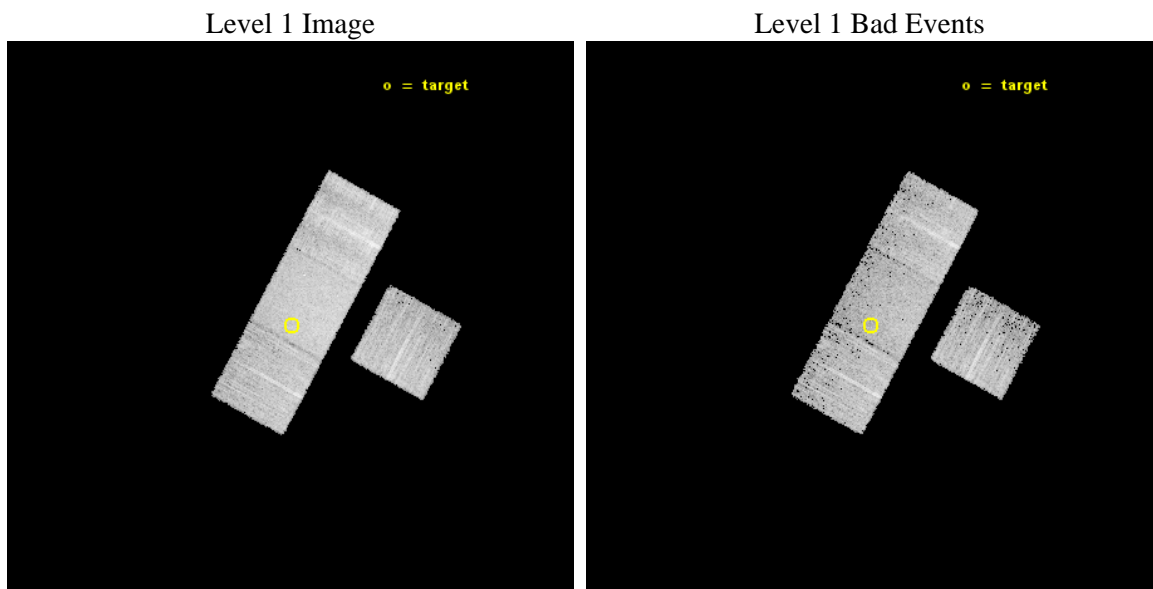
seq_num	702817	Sequence number
obs_id	15009	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszkiewicz	Principal investigator
object	3C337	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	247.22	Observer's specified target RA [deg]
dec_targ	44.318056	Observer's specified target Dec [deg]
ra_nom	247.22425572786	Nominal RA [deg]
dec_nom	44.317850351156	Nominal Dec [deg]
roll_nom	298.55732418805	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10078.10007751	Sum of GTIs [s]
livetime	9946.4222806079	Livetime [s]
ontime3	10078.10007751	Sum of GTIs [s]
ontime6	10078.10007751	Sum of GTIs [s]
ontime7	10078.10007751	Sum of GTIs [s]
ontime8	10078.10007751	Sum of GTIs [s]
l2events	44804	Number of level 2 events



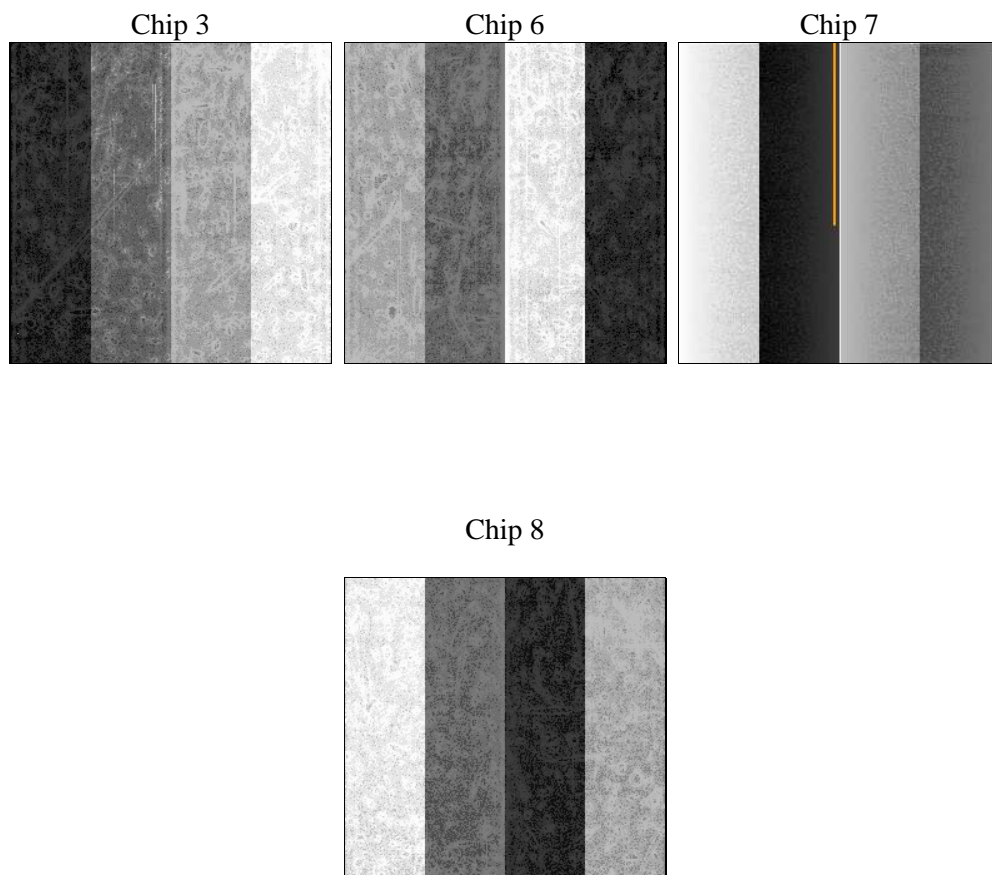
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	10078.10007751	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	10078.10007751	Sum of GTIs [s]
date	2014-12-07T00:01:11	Date and time of file creation	ontime6	10078.10007751	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	10078.10007751	Sum of GTIs [s]
			ontime8	10078.10007751	Sum of GTIs [s]
			l1events	229506	Number of level 1 events

2.1.4 Events

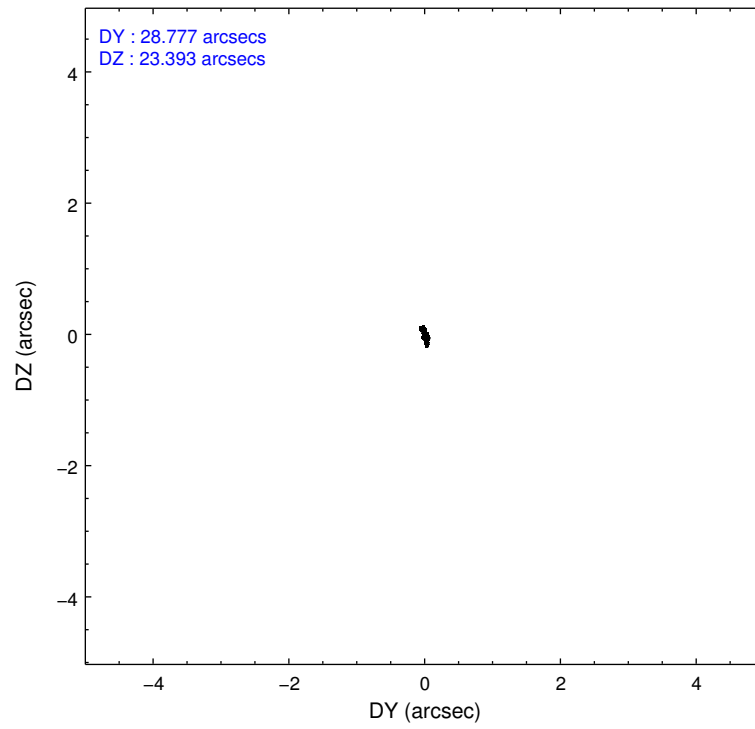
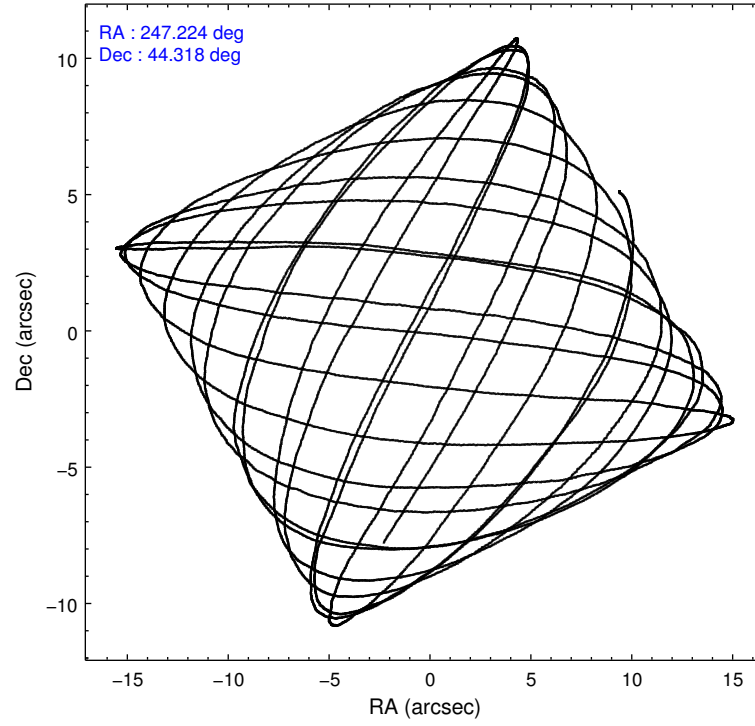
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	46208	49827	66122	67349
rejected events	40683	43834	37231	47425
rejected %	88%	87%	56%	70%

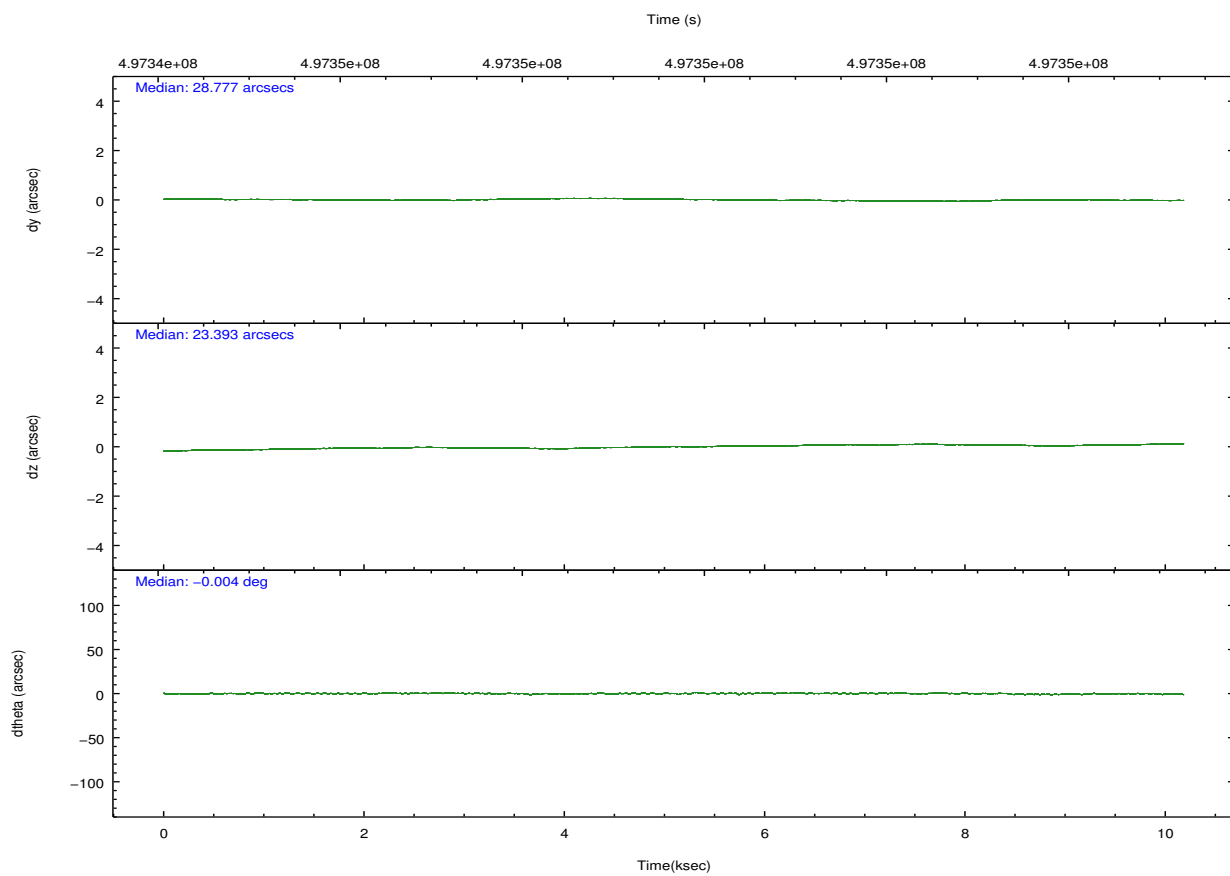
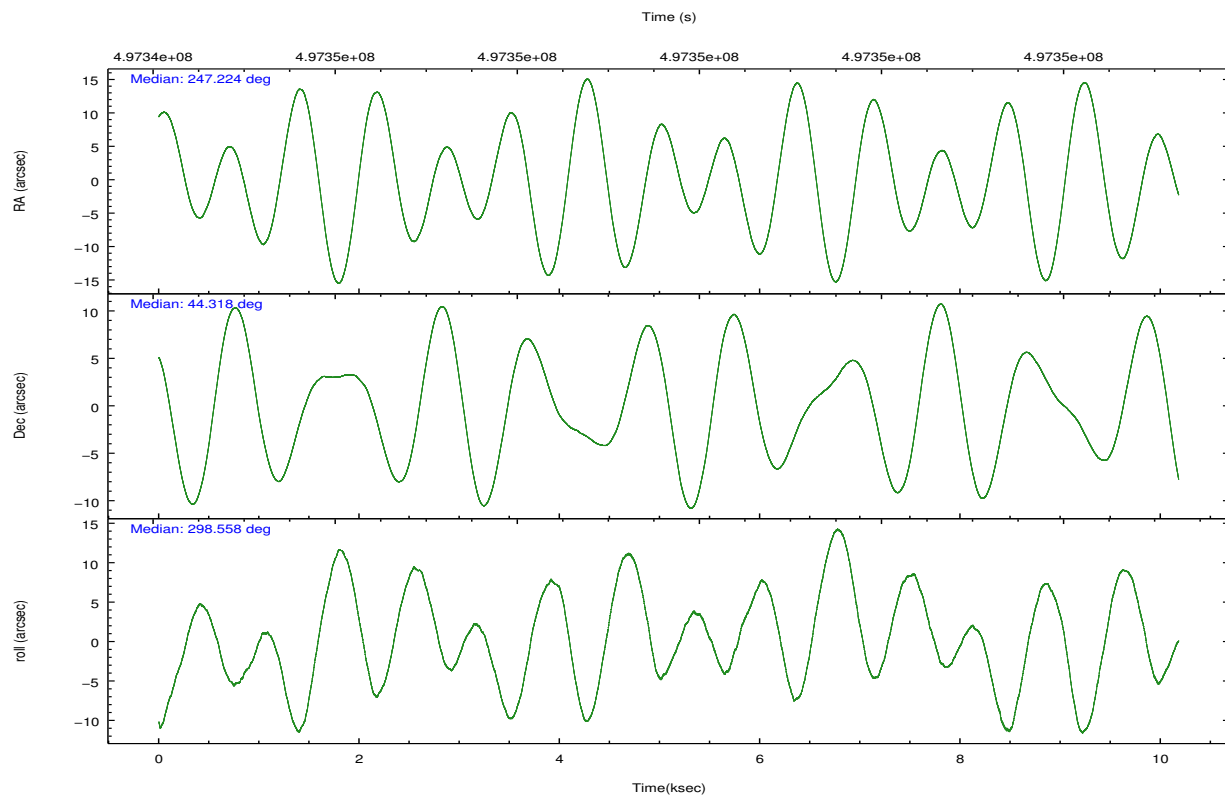
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1961	1966	2577	5950
	4%	3%	3%	8%
grade 1 events	31	17	69	68
	0%	0%	0%	0%
grade 2 events	1231	1384	5898	4326
	2%	2%	8%	6%
grade 3 events	591	587	2490	2194
	1%	1%	3%	3%
grade 4 events	576	589	2386	2126
	1%	1%	3%	3%
grade 5 events	2514	2539	6845	3758
	5%	5%	10%	5%
grade 6 events	1168	1468	15554	5331
	2%	2%	23%	7%
grade 7 events	38136	41277	30303	43596
	82%	82%	45%	64%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	247.191340	247.2242557278587	CCD I2 on	N	N
[deg] Pointing Dec	44.331789	44.31785035115569	CCD I3 on	O1	Y
[deg] Pointing Roll	298.423699	298.5573241880482	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	O3	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	O2	Y
[s] Observation start time (MET)	497344761.184000	497343663.7662	CCD S5 on	N	N
Observation start date	2013-10-05T07:18:14	2013-10-05T07:01:03	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	497354761.184000	497355600.91685	On-chip summing requested	N	N
Observation end date	2013-10-05T10:04:54	2013-10-05T10:20:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



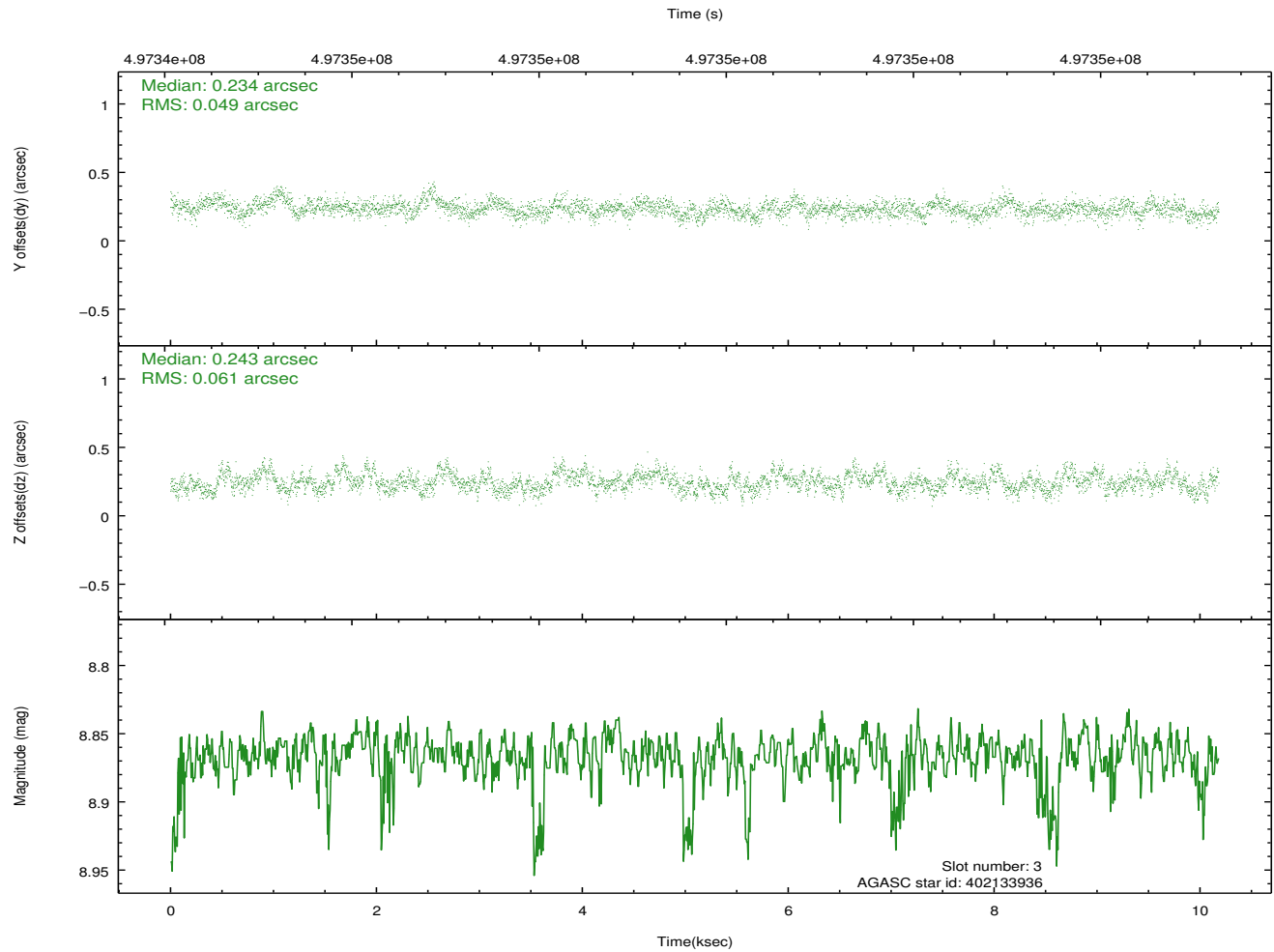
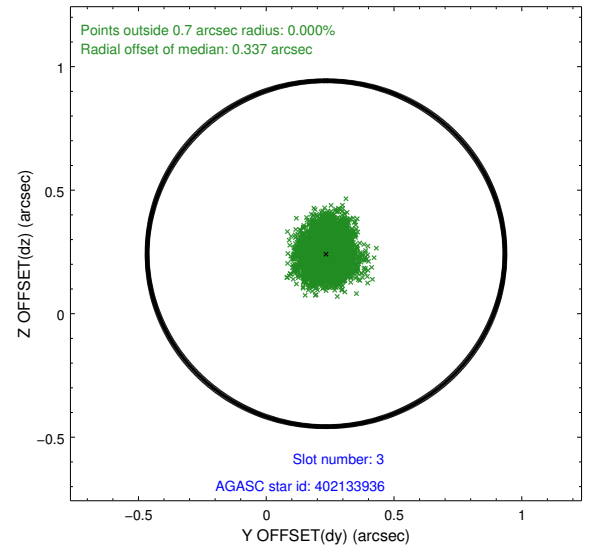
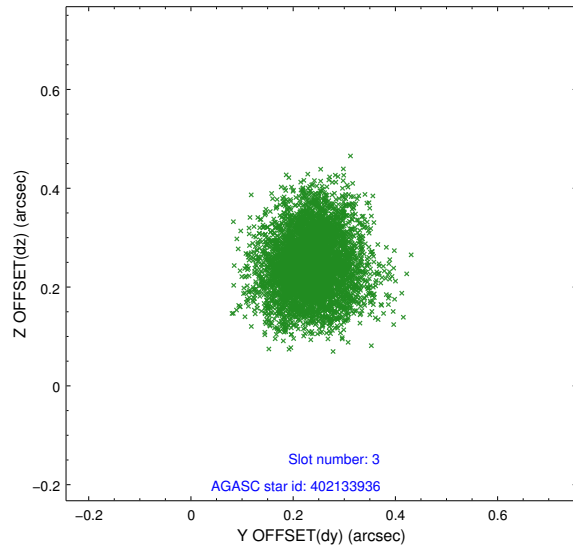


Slot Statistics

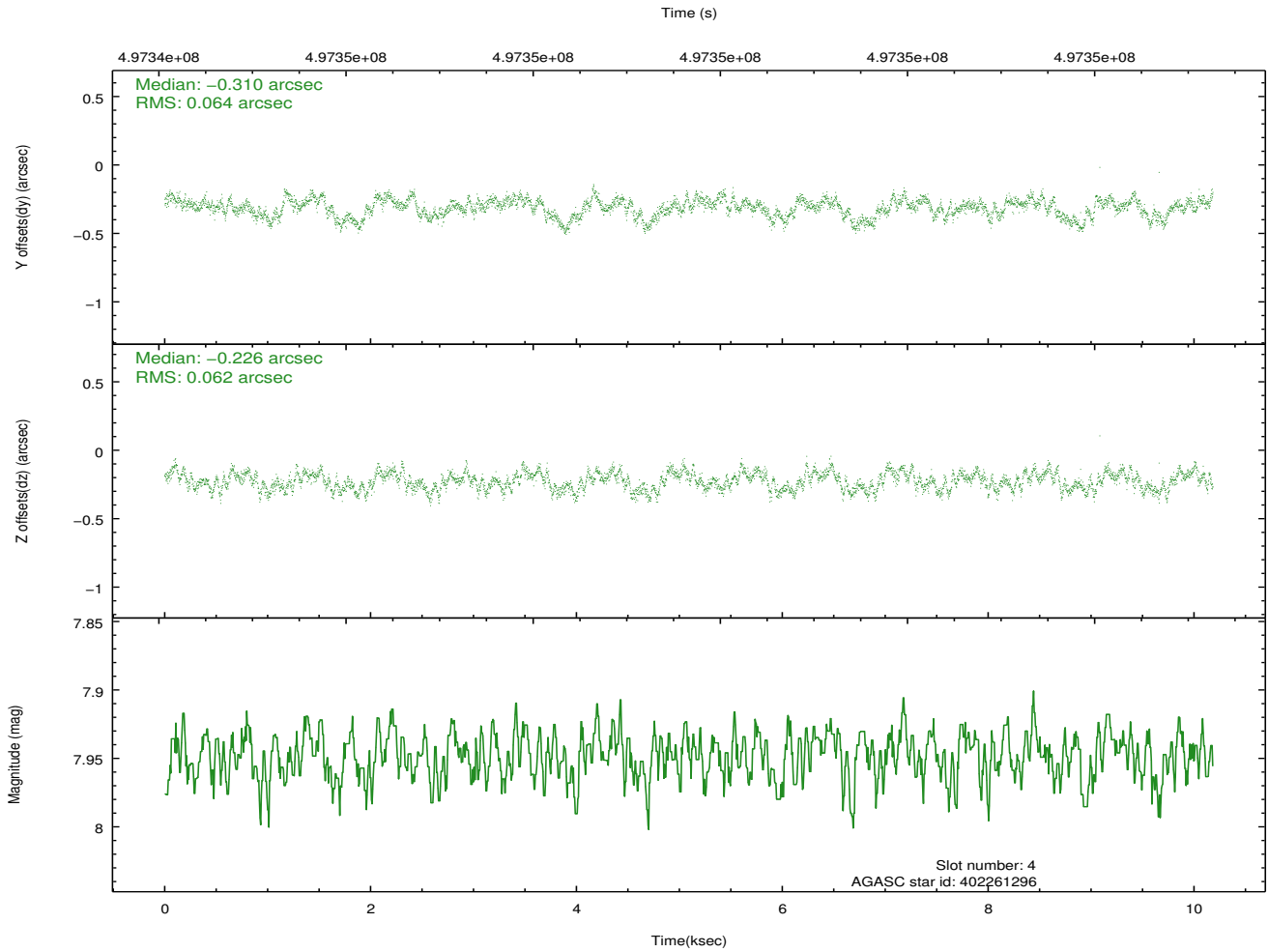
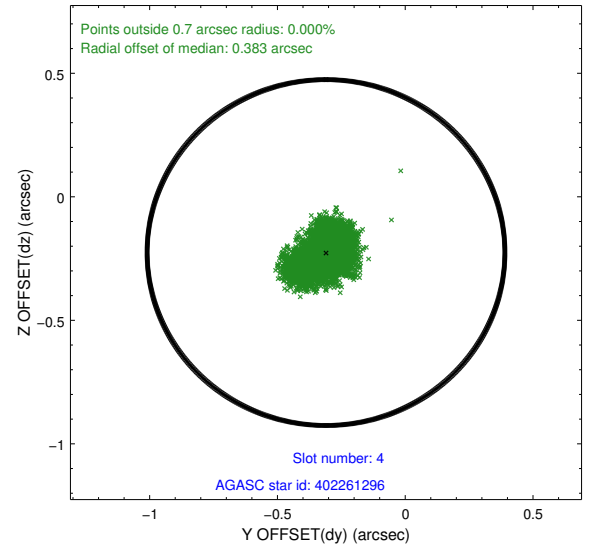
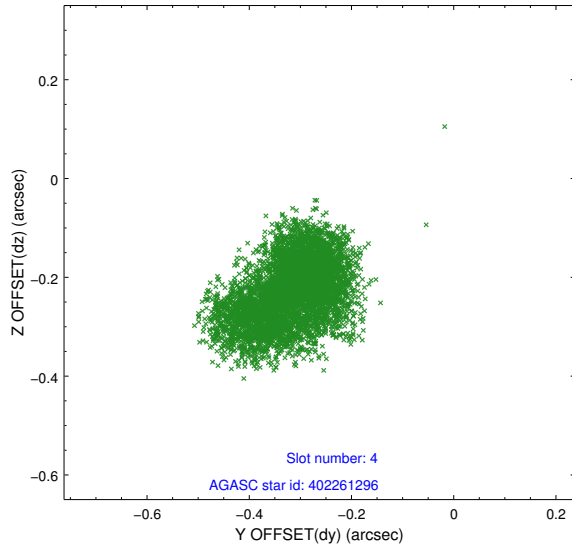
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	2484	-0.190	-0.045	0.007	0.011	0.000000	0.000000	-782.32	-1744.98
1	FID		ACIS-S-4	7.00	2484	0.391	0.104	0.006	0.012	0.000000	0.000000	2131.30	163.09
2	FID		ACIS-S-5	7.03	2484	-0.232	-0.050	0.006	0.011	0.000000	0.000000	-1834.54	157.22
3	GUIDE	used	402133936	8.87	4951	0.234	0.243	0.085	0.137	246.549499	44.711945	-1990.44	-789.30
4	GUIDE	used	402261296	7.95	4968	-0.310	-0.226	0.097	0.153	247.983664	44.264198	1176.91	1684.76
5	GUIDE	used	402270432	9.14	4936	0.066	-0.289	0.138	0.214	247.927707	44.013709	1907.54	1135.79
6	GUIDE	used	402270712	8.91	4935	0.215	0.171	0.128	0.208	247.422908	43.751154	2124.98	-464.51
7	GUIDE	used	402274936	9.27	4957	-0.196	0.098	0.140	0.218	247.532672	44.871021	-1293.87	1690.86

2.4 Star Slots

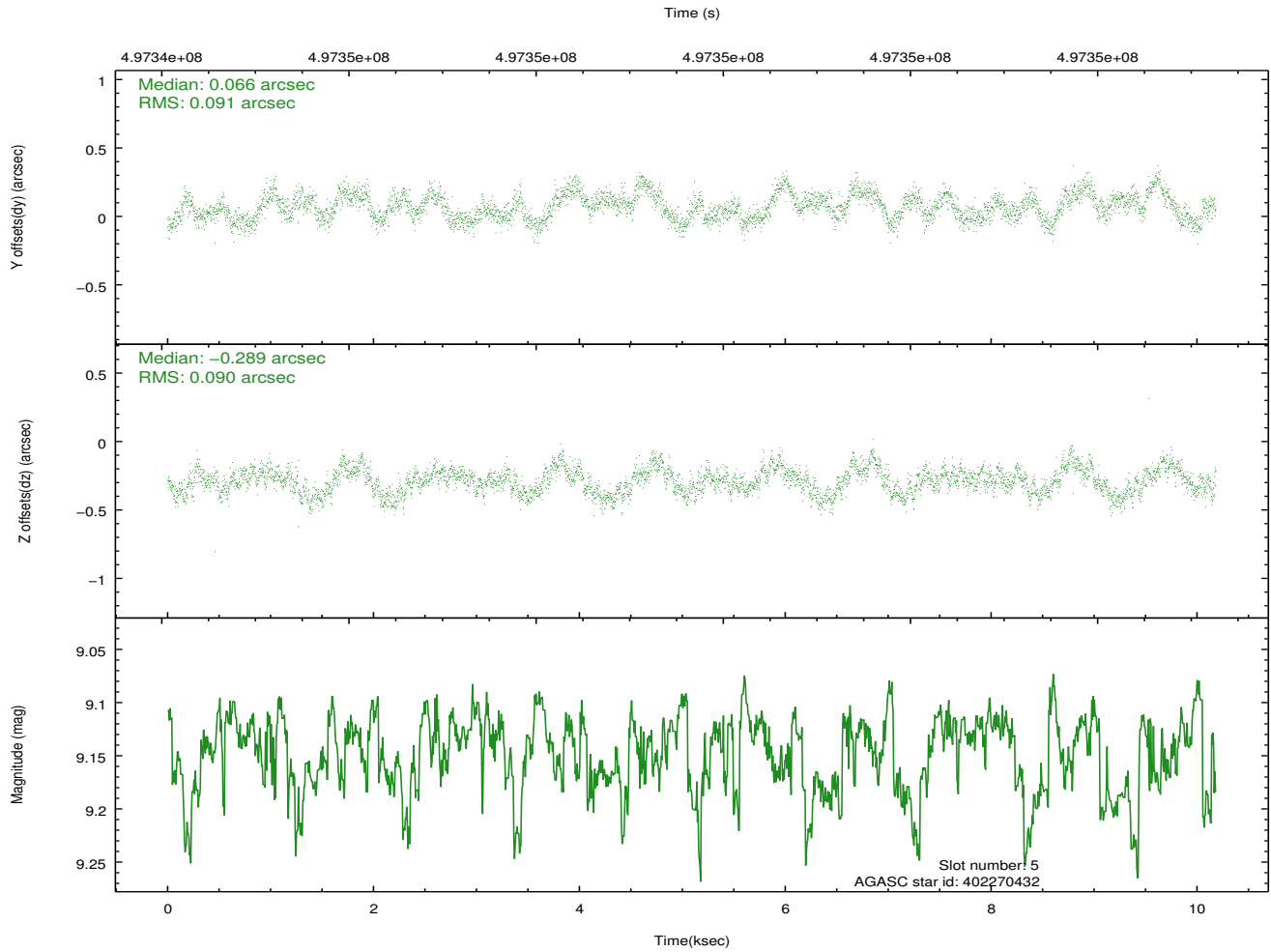
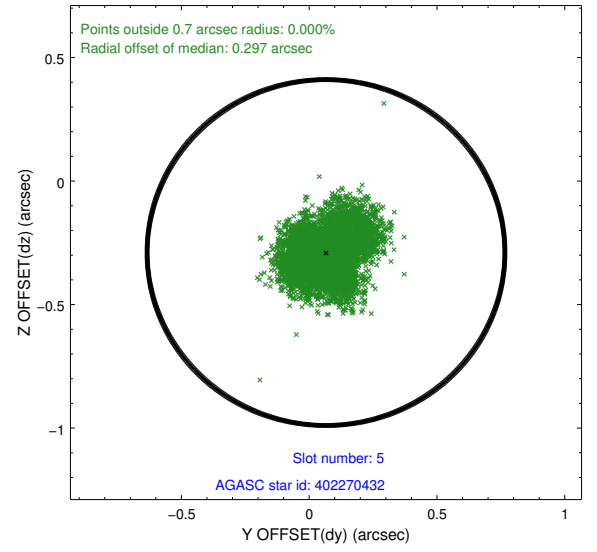
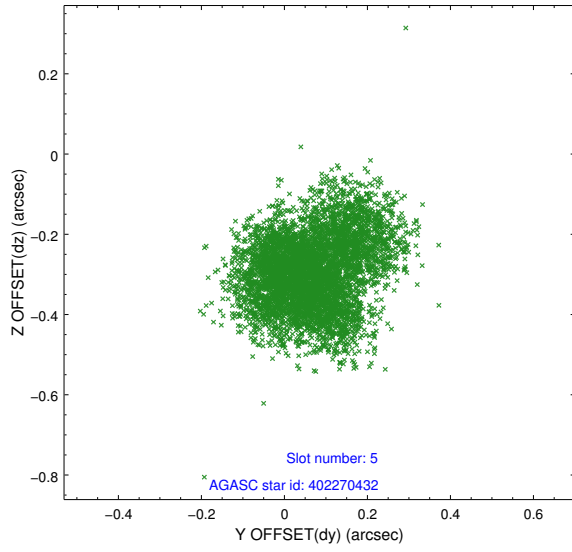
2.4.1 Slot 3



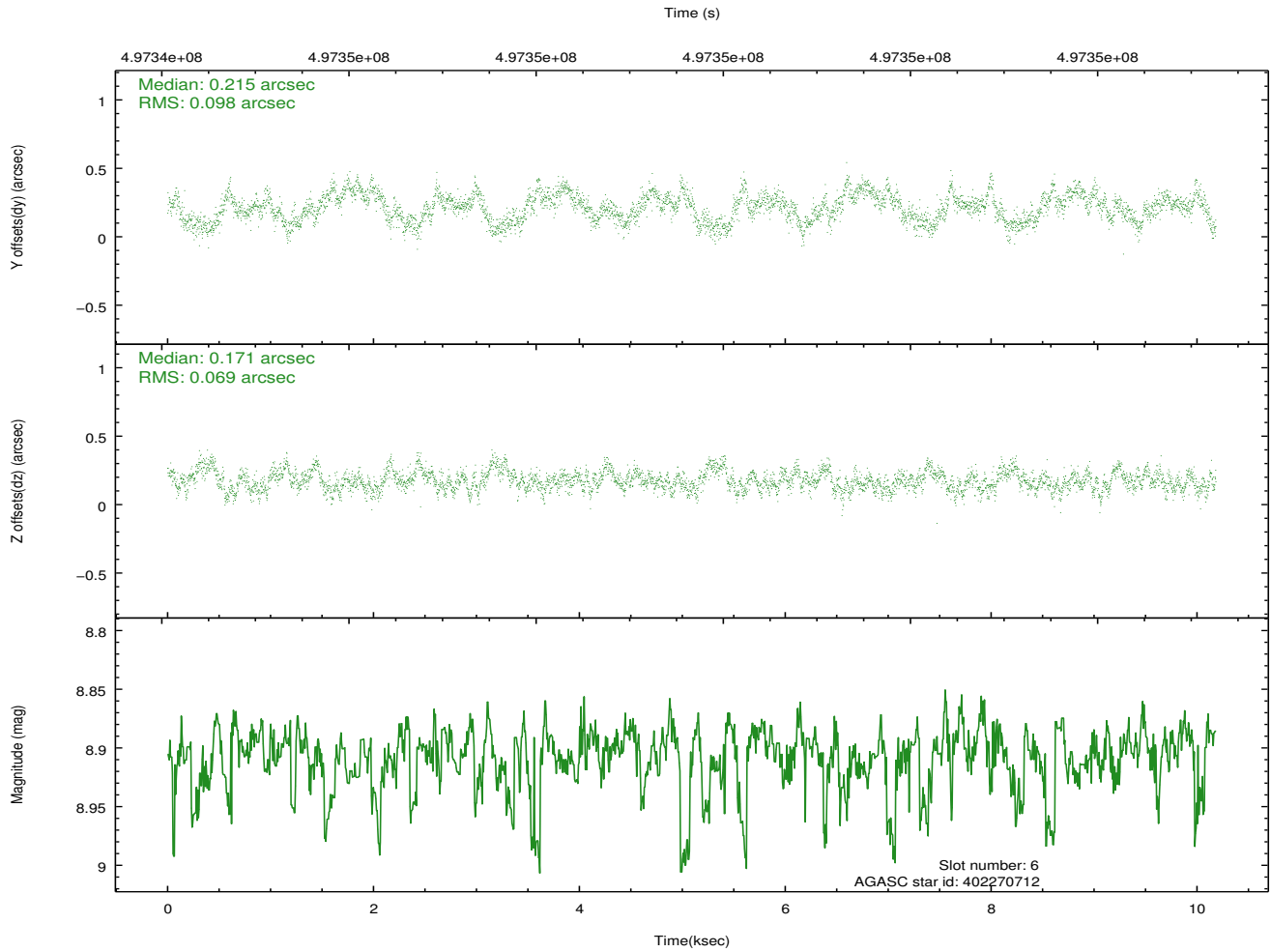
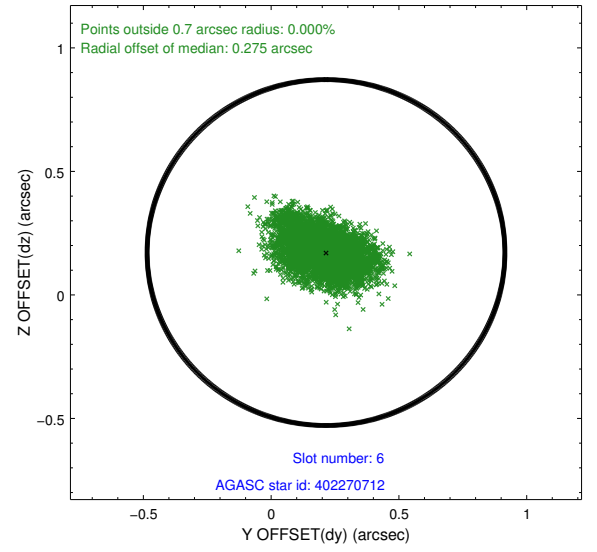
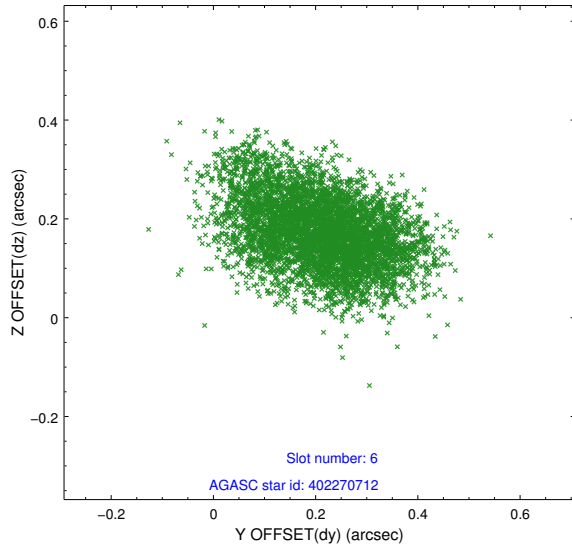
2.4.2 Slot 4



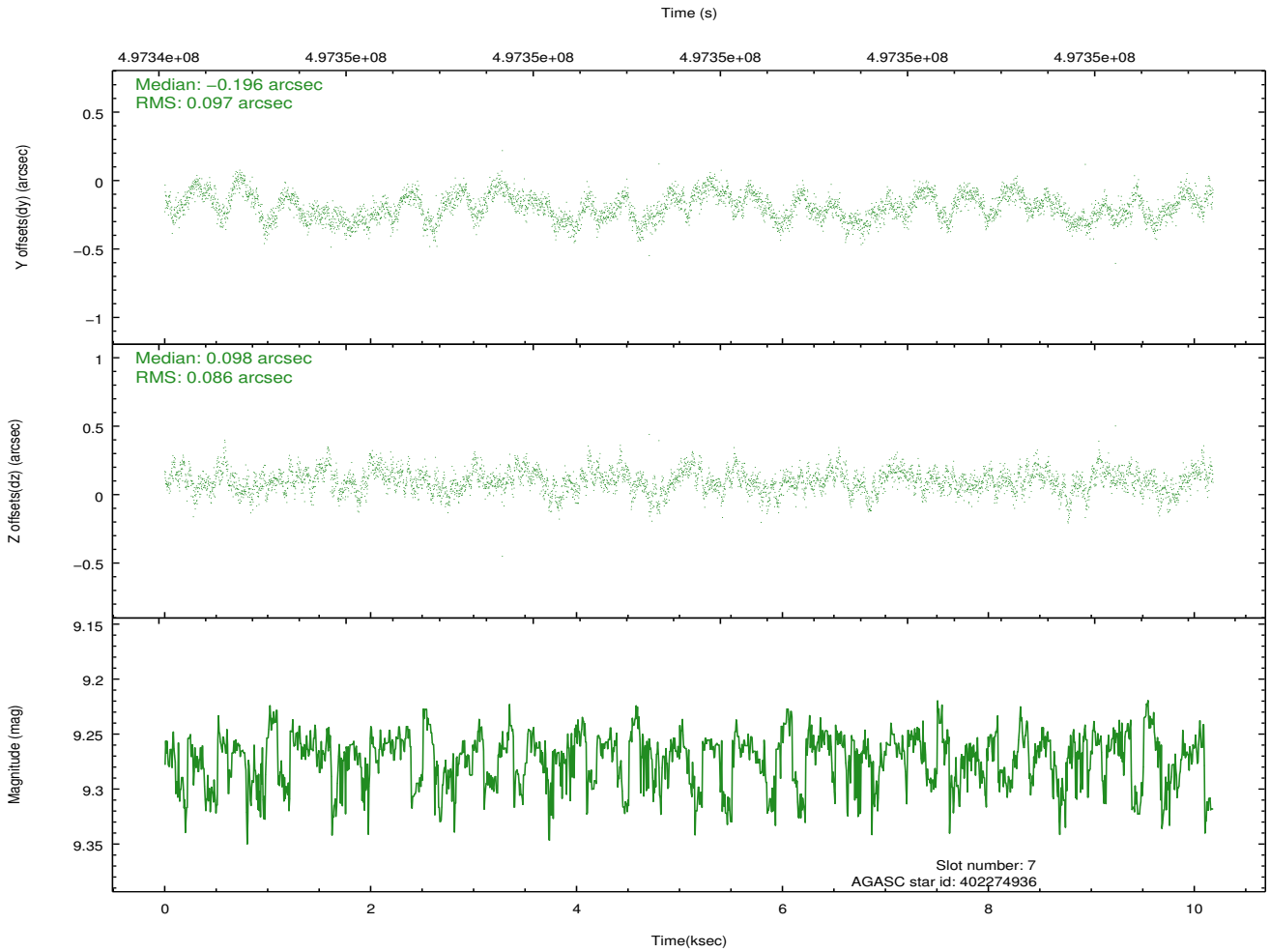
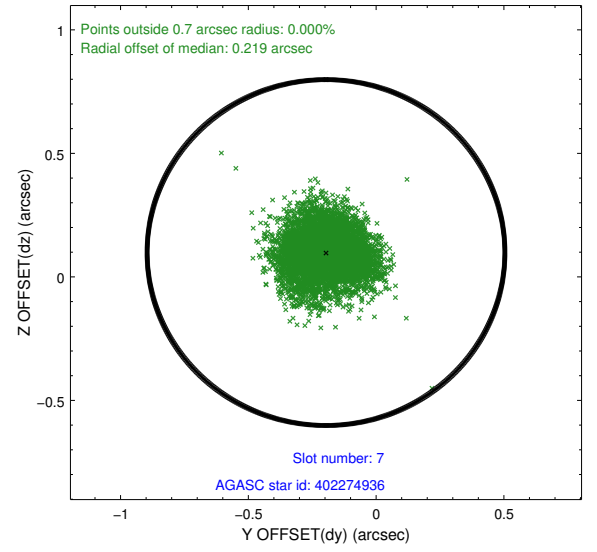
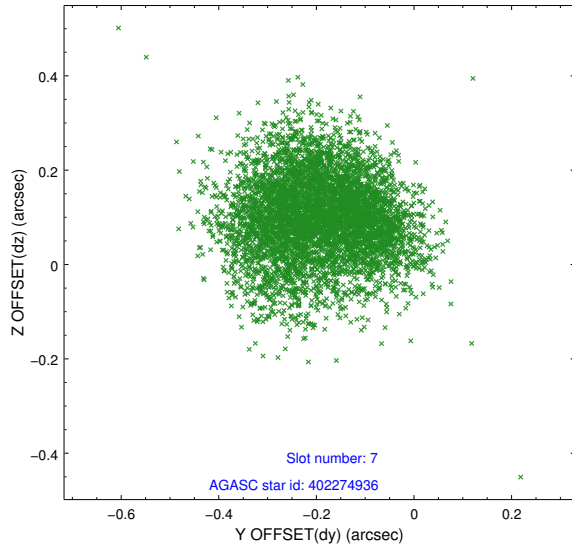
2.4.3 Slot 5



2.4.4 Slot 6

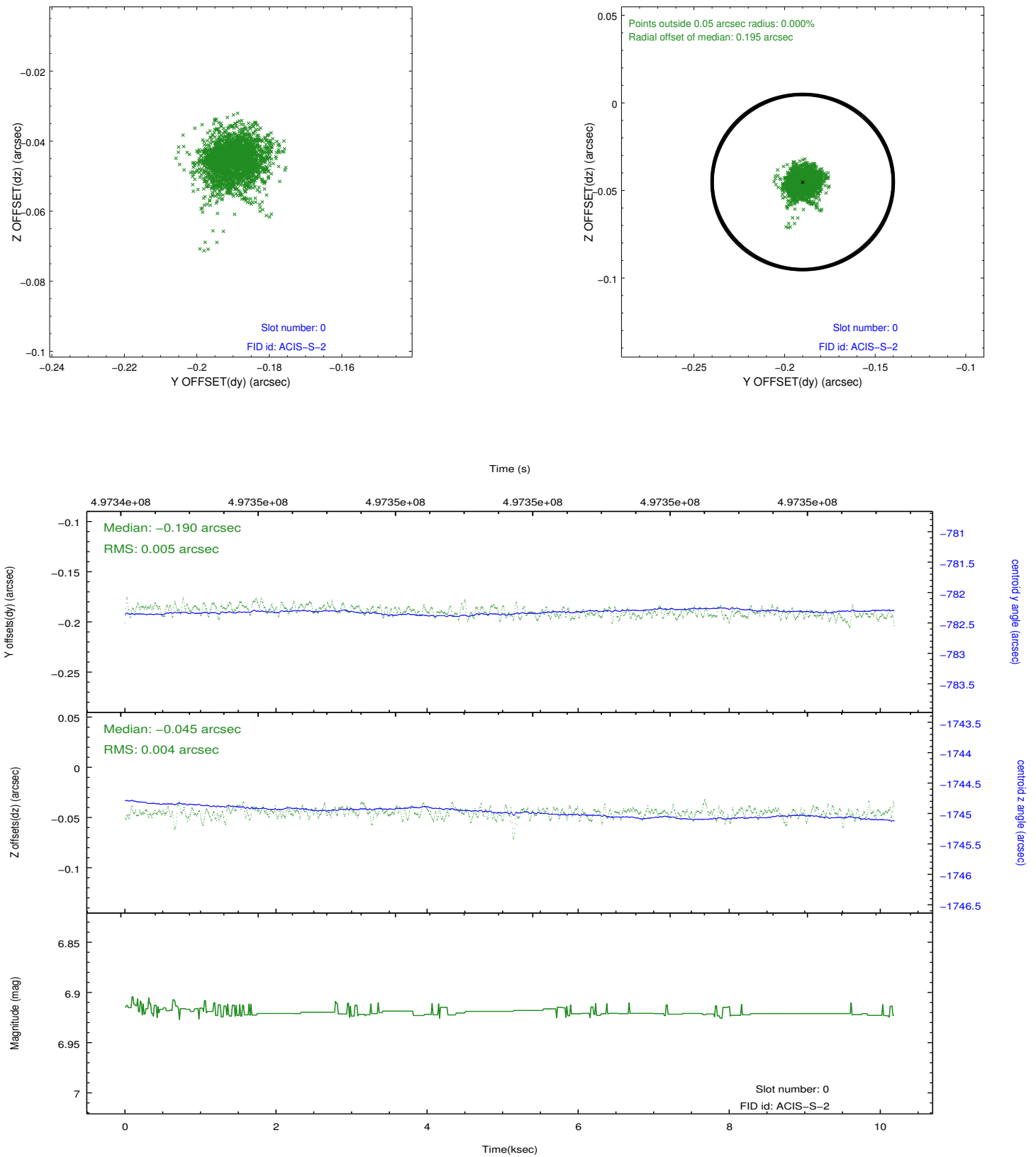


2.4.5 Slot 7

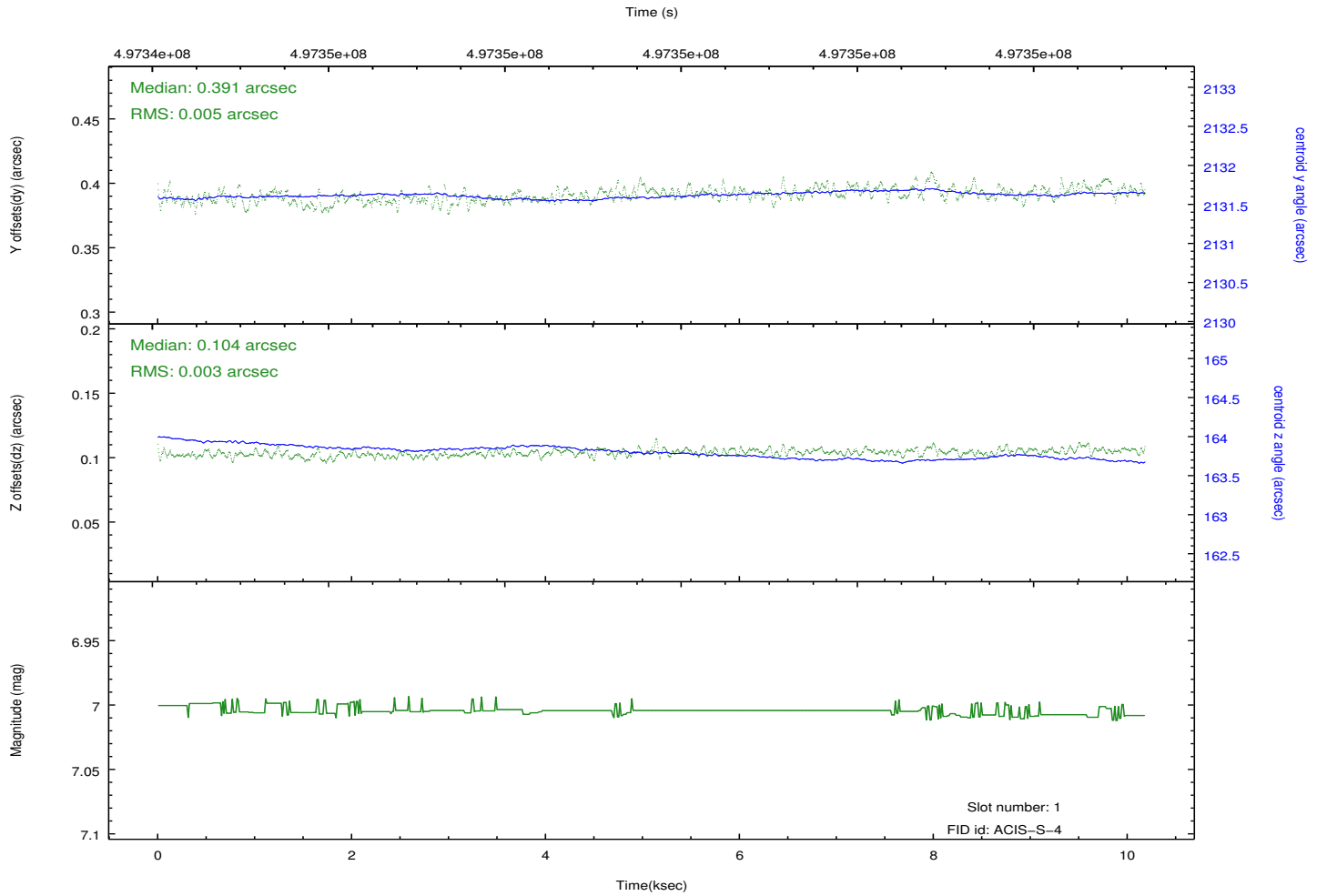
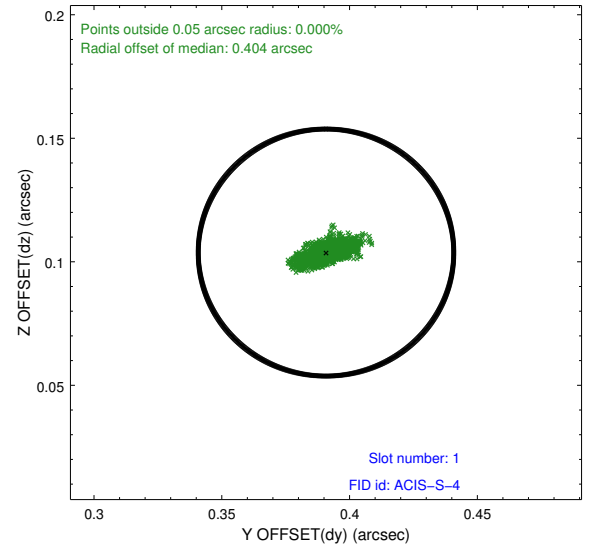
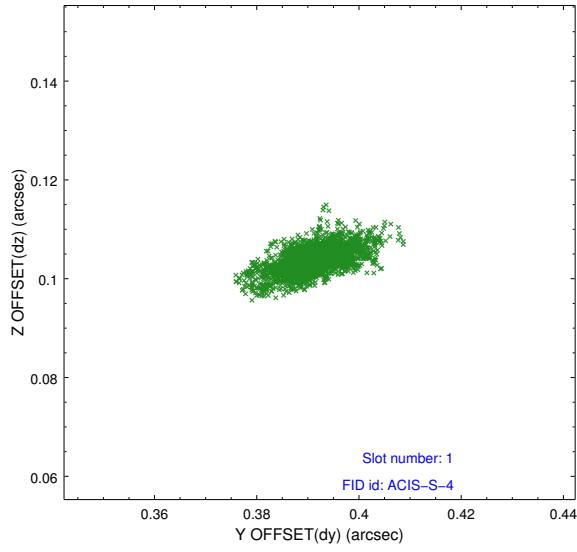


2.5 FID Slots

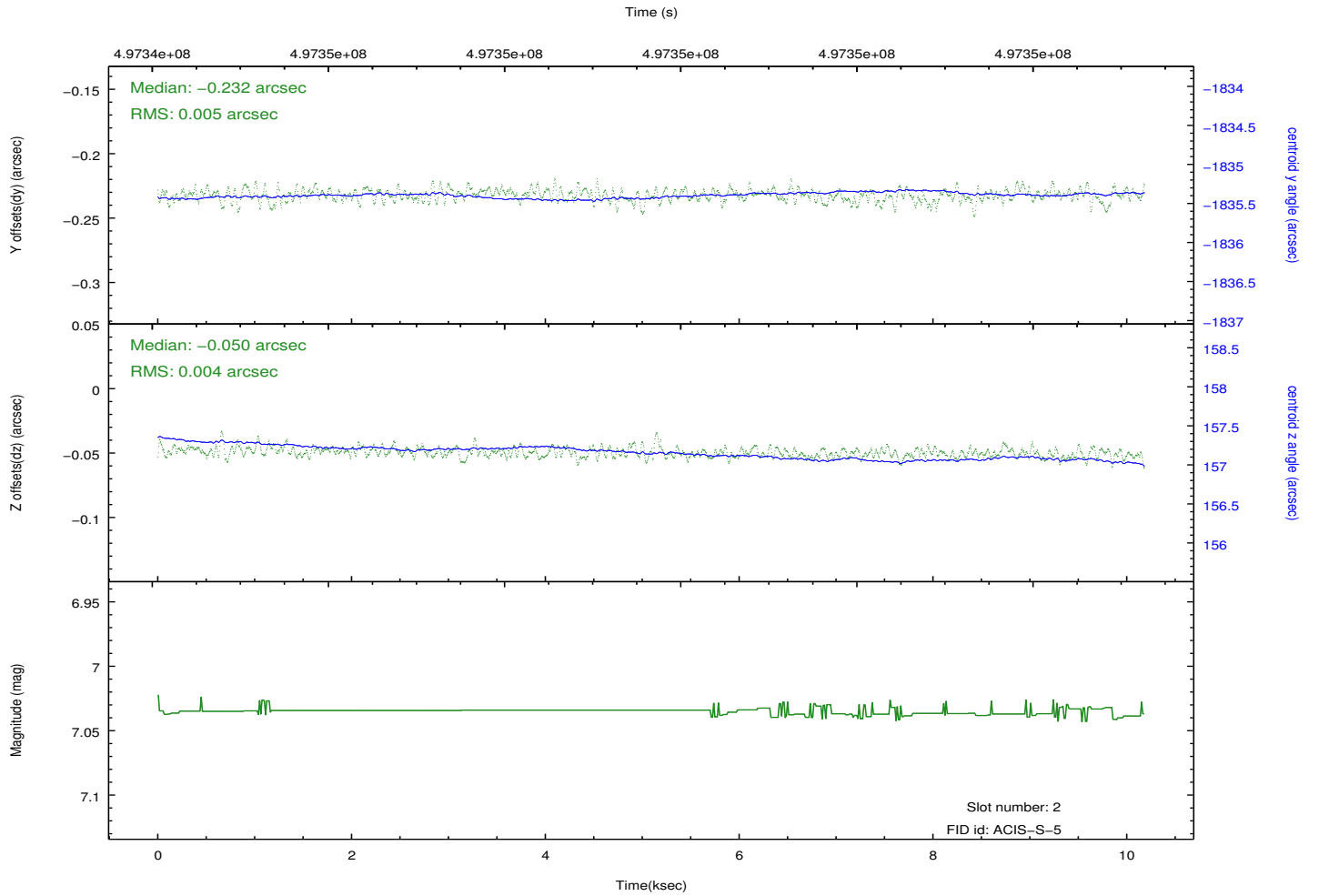
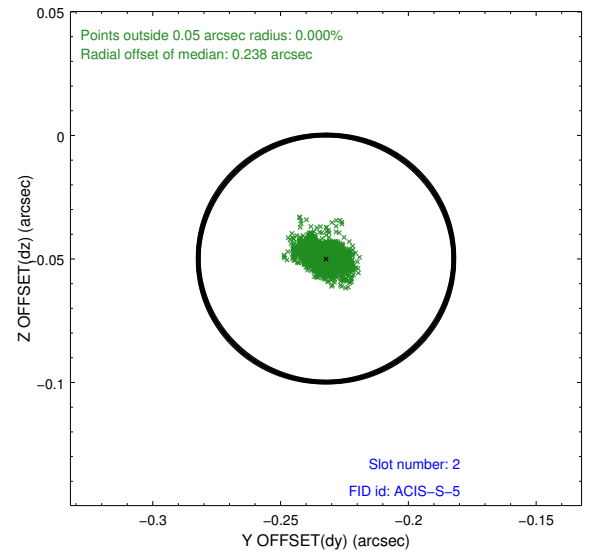
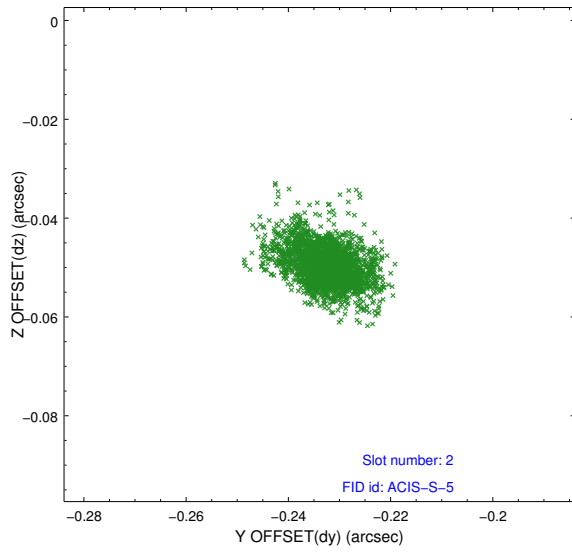
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.07810007751

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.