

V&V Reference Report

L2 ASCDS Version : 10.1

Observation 15013 - L2 Version 2
Chandra X-Ray Center

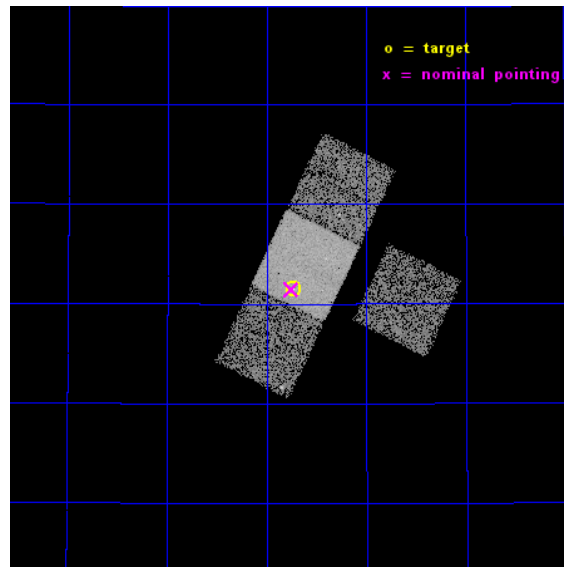
L2 Processing Date : Dec 6 2014

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1 Front

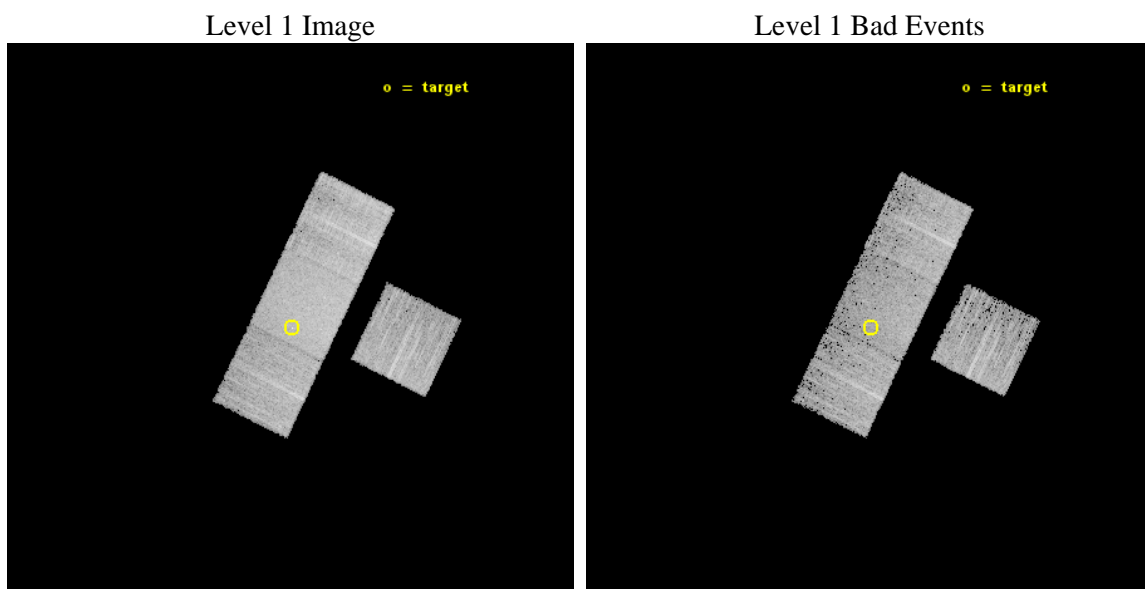
seq_num	702821	Sequence number
obs_id	15013	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszkiewicz	Principal investigator
object	3C352	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	257.68375	Observer's specified target RA [deg]
dec_targ	46.024583	Observer's specified target Dec [deg]
ra_nom	257.68813074227	Nominal RA [deg]
dec_nom	46.024273837752	Nominal Dec [deg]
roll_nom	296.08802636523	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10077.46970129	Sum of GTIs [s]
livetime	9945.8001407175	Livetime [s]
ontime3	10077.387621284	Sum of GTIs [s]
ontime6	10077.428661287	Sum of GTIs [s]
ontime7	10077.46970129	Sum of GTIs [s]
ontime8	10077.34658128	Sum of GTIs [s]
l2events	45106	Number of level 2 events



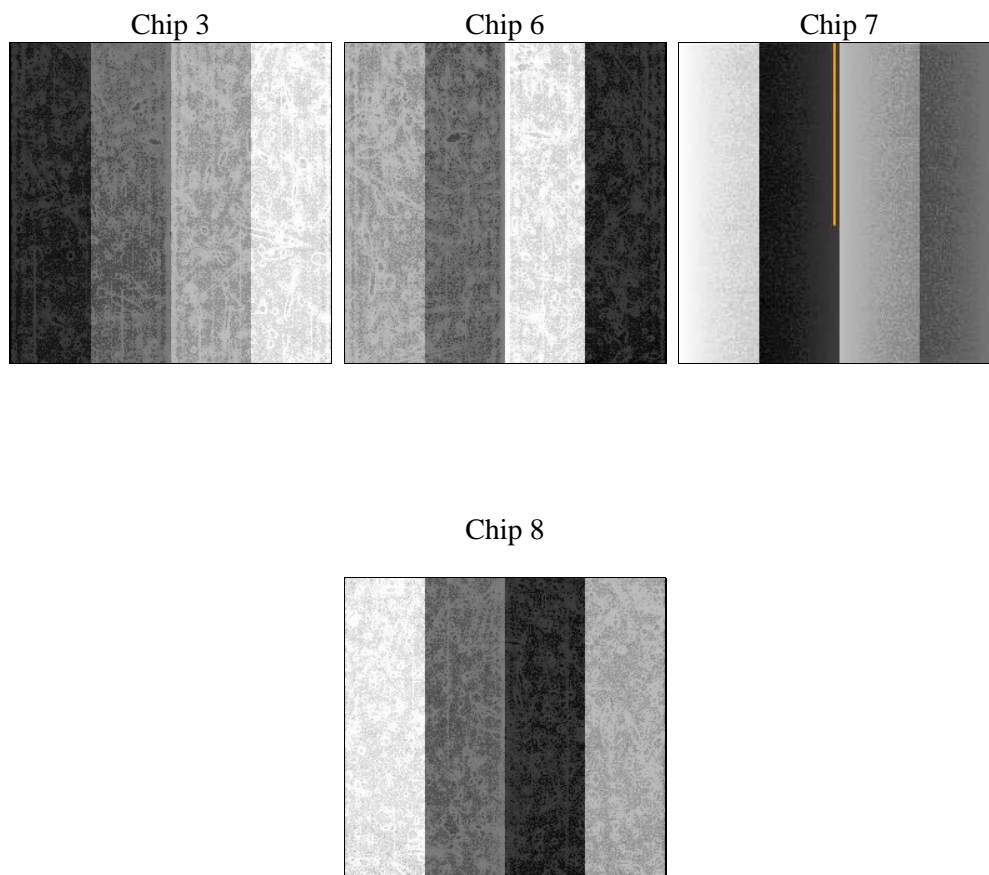
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.830000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	10077.46970129	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	10077.387621284	Sum of GTIs [s]
date	2014-12-07T02:12:20	Date and time of file creation	ontime6	10077.428661287	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	10077.46970129	Sum of GTIs [s]
			ontime8	10077.34658128	Sum of GTIs [s]
			l1events	226272	Number of level 1 events

2.1.4 Events

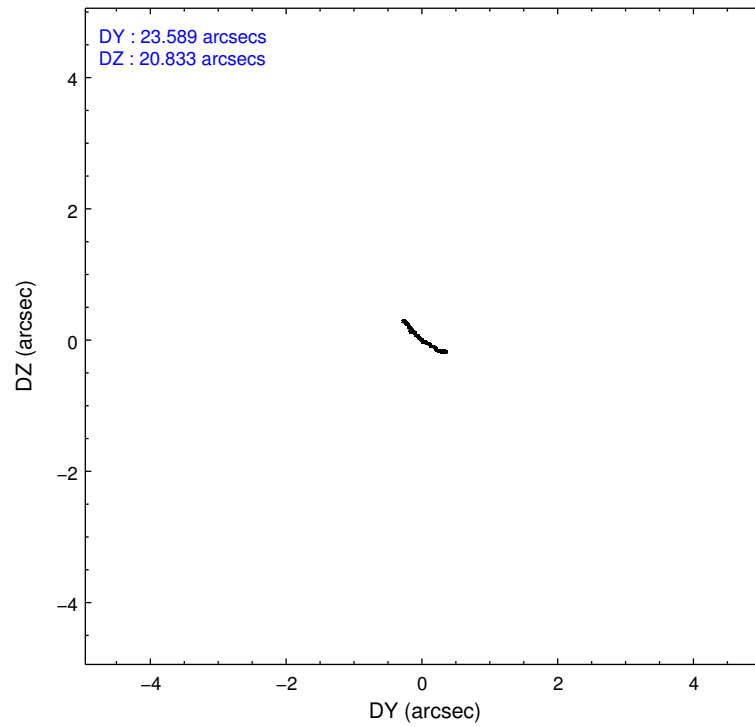
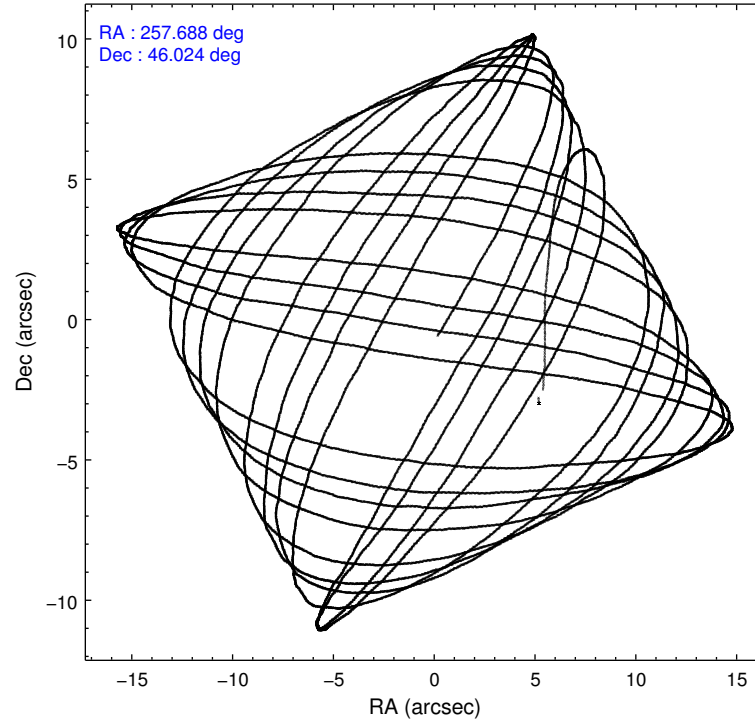
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	46765	47499	66467	65541
rejected events	41447	41400	37149	47561
rejected %	88%	87%	55%	72%

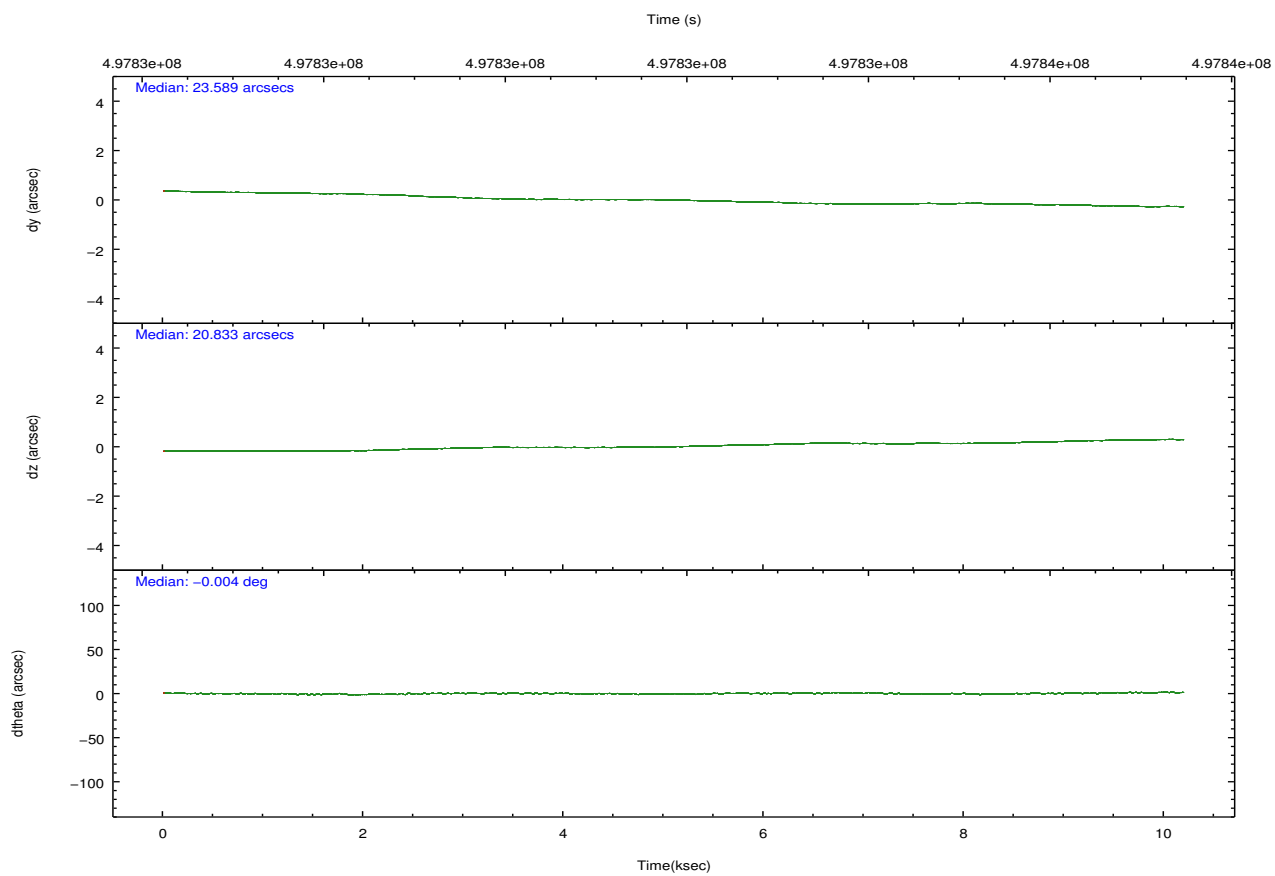
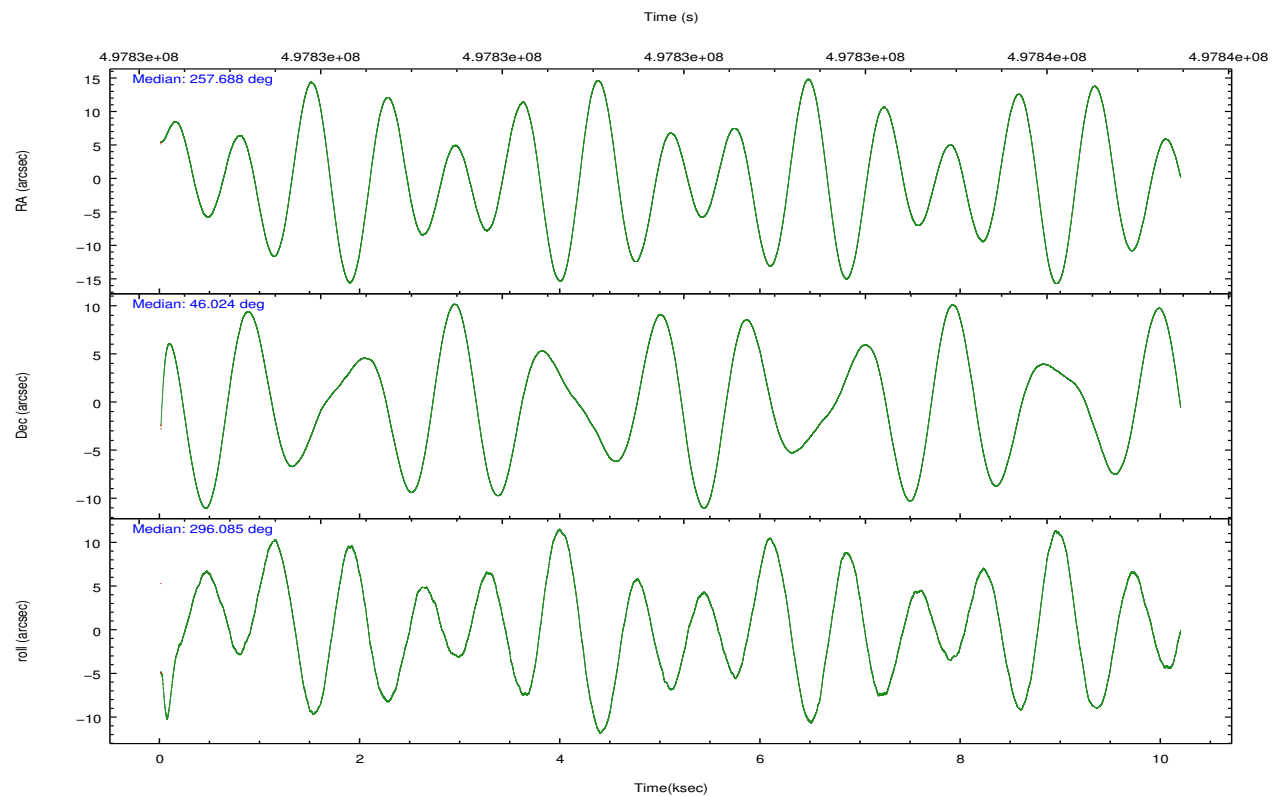
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1846	2084	2602	5454
	3%	4%	3%	8%
grade 1 events	29	21	78	41
	0%	0%	0%	0%
grade 2 events	1215	1411	6152	4180
	2%	2%	9%	6%
grade 3 events	554	612	2462	1858
	1%	1%	3%	2%
grade 4 events	569	628	2472	1747
	1%	1%	3%	2%
grade 5 events	2506	2643	6840	3859
	5%	5%	10%	5%
grade 6 events	1140	1365	15643	4770
	2%	2%	23%	7%
grade 7 events	38906	38735	30218	43632
	83%	81%	45%	66%

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	257.655095	257.6881307422655	CCD I2 on	N	N
[deg] Pointing Dec	46.039176	46.02427383775174	CCD I3 on	O1	Y
[deg] Pointing Roll	295.955177	296.0880263652306	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O2	Y
[s] Observation start time (MET)	497826954.184000	497825872.48009	CCD S5 on	N	N
Observation start date	2013-10-10T21:14:47	2013-10-10T20:57:52	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	497836955.184000	497837180.79321	On-chip summing requested	N	N
Observation end date	2013-10-11T00:01:28	2013-10-11T00:06:20	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



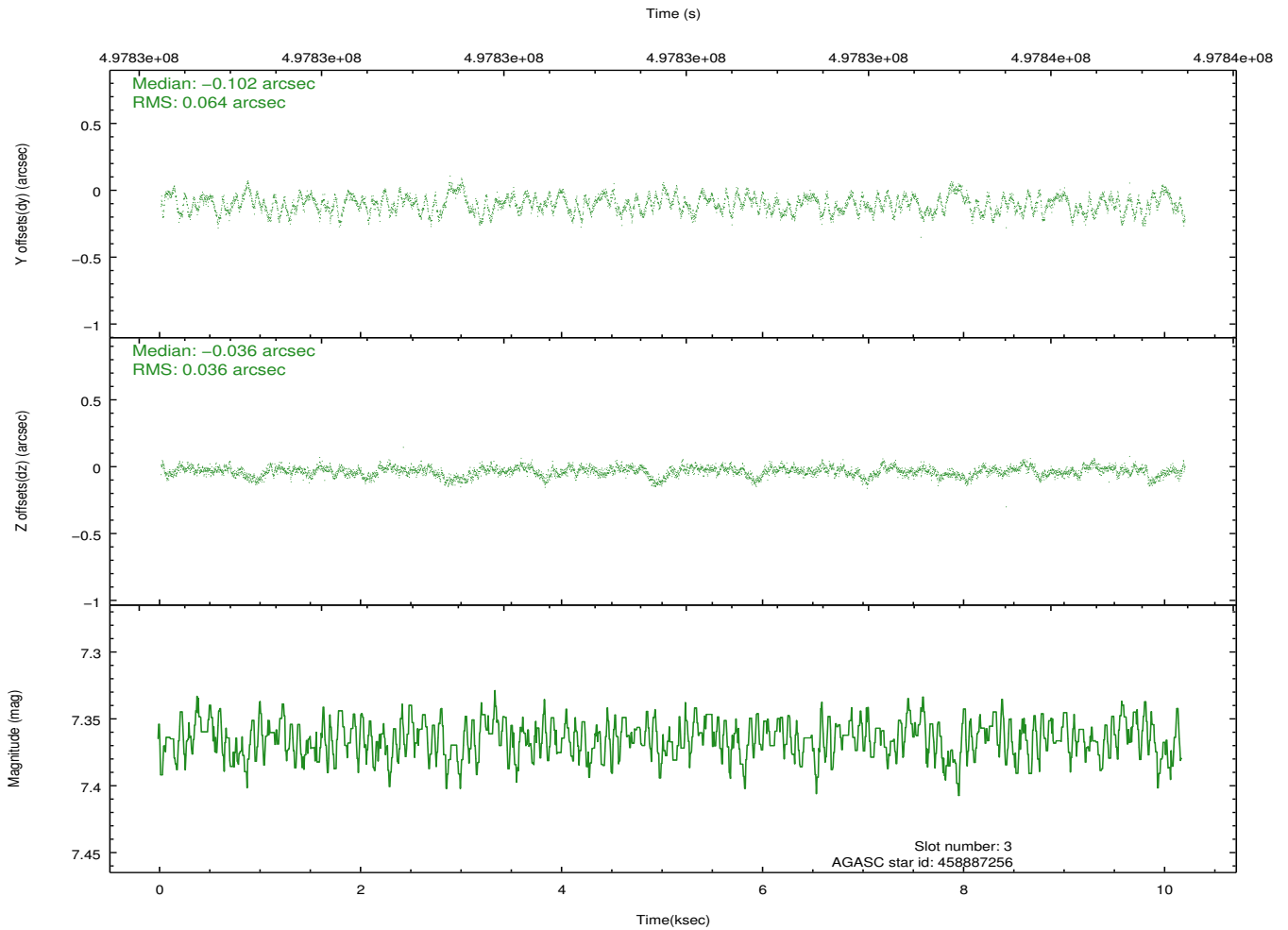
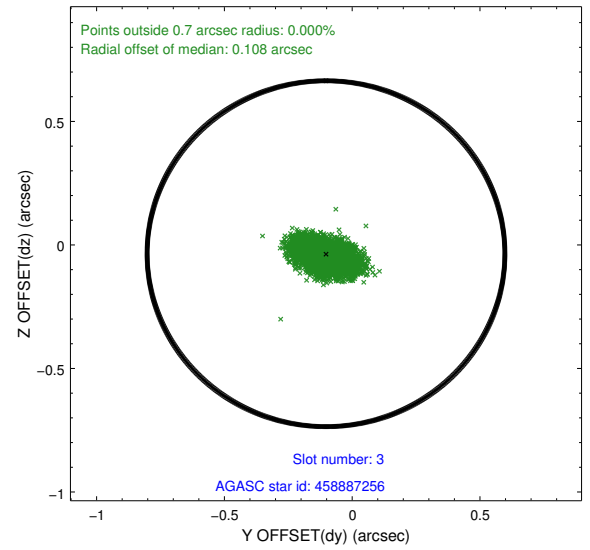
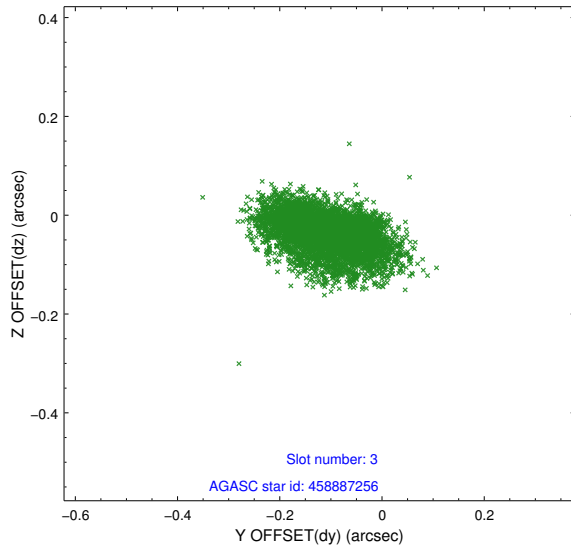


Slot Statistics

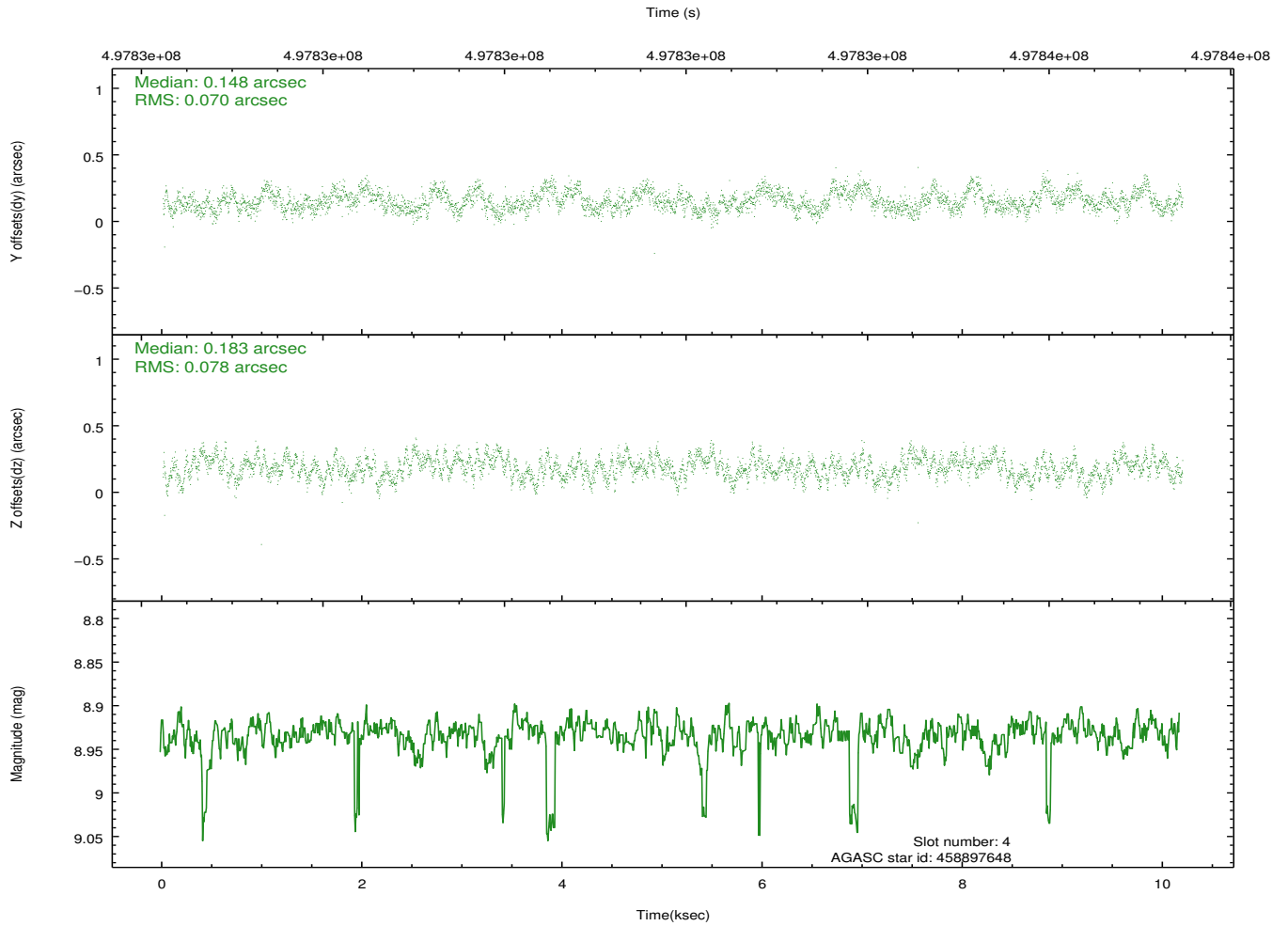
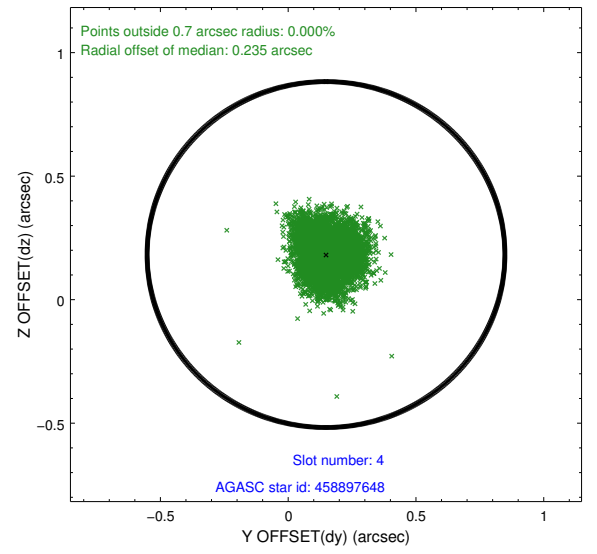
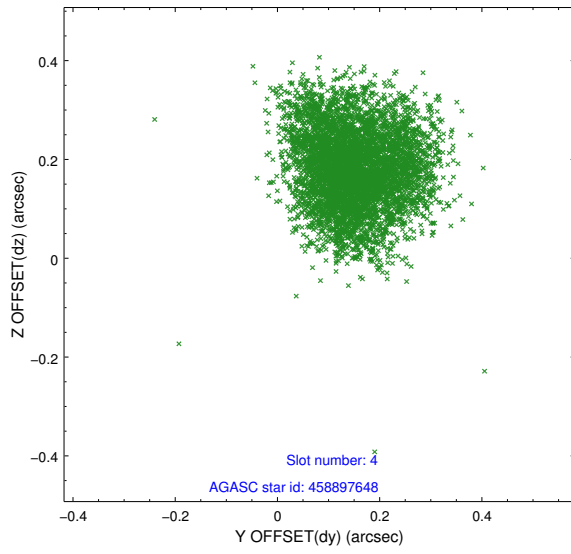
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	2486	-0.151	-0.019	0.012	0.019	0.000000	0.000000	-776.94	-1742.42
1	FID		ACIS-S-4	7.06	2486	0.345	0.078	0.015	0.023	0.000000	0.000000	2136.59	165.63
2	FID		ACIS-S-5	7.08	2485	-0.225	-0.050	0.010	0.015	0.000000	0.000000	-1829.20	159.75
3	GUIDE	used	458887256	7.36	4971	-0.102	-0.036	0.079	0.129	257.668075	46.556040	-1657.54	843.13
4	GUIDE	used	458897648	8.93	4951	0.148	0.183	0.113	0.175	257.228419	46.505420	-1974.24	-214.44
5	GUIDE	used	458903456	8.39	4967	-0.099	-0.020	0.084	0.138	257.830401	46.011014	282.95	349.44
6	GUIDE	used	458904008	9.25	4936	0.088	-0.076	0.140	0.220	257.405359	45.363721	1909.68	-1631.67
7	GUIDE	used	458883368	9.14	4965	-0.018	-0.040	0.162	0.240	257.620906	46.750299	-2337.30	1044.21

2.4 Star Slots

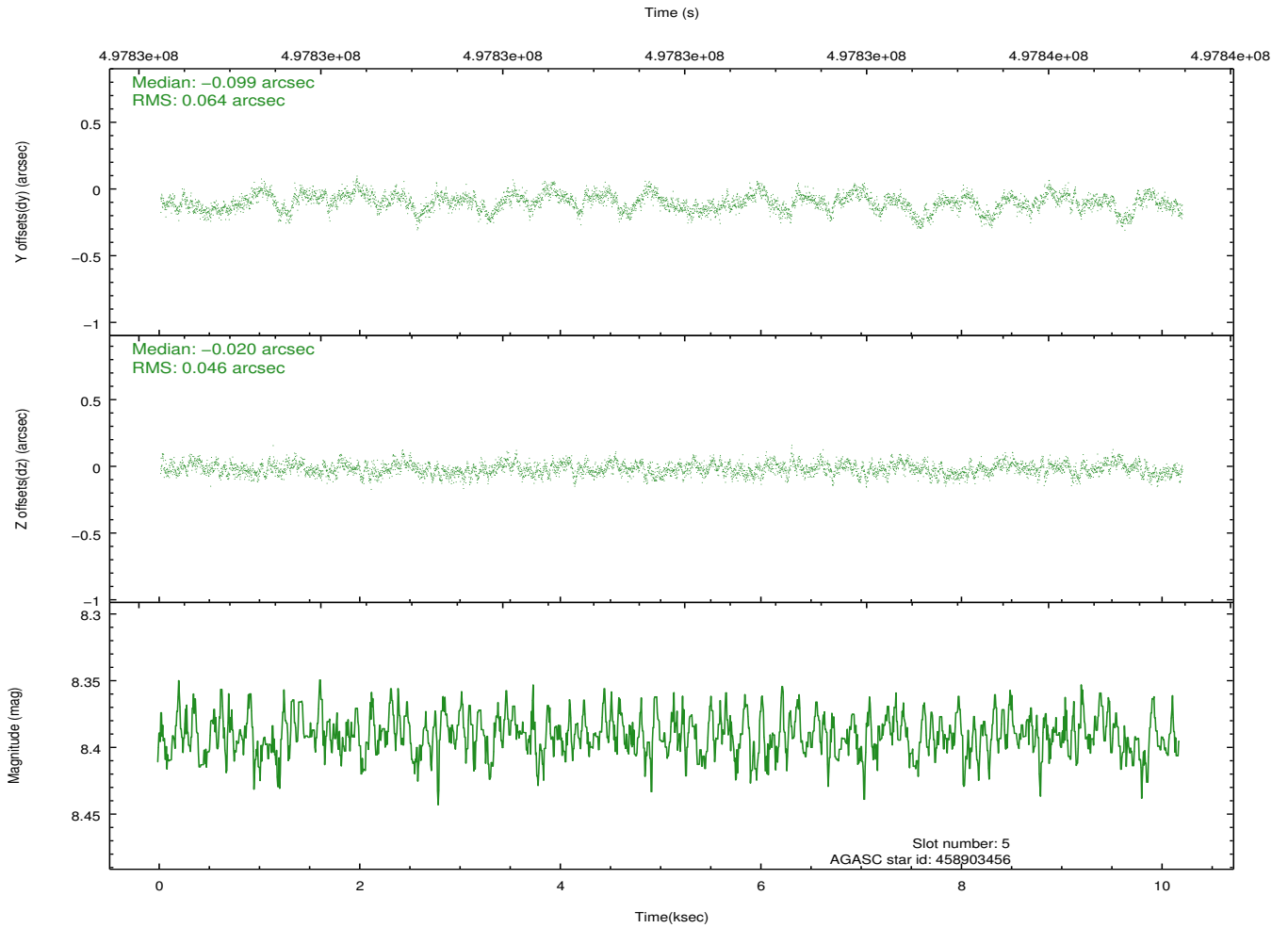
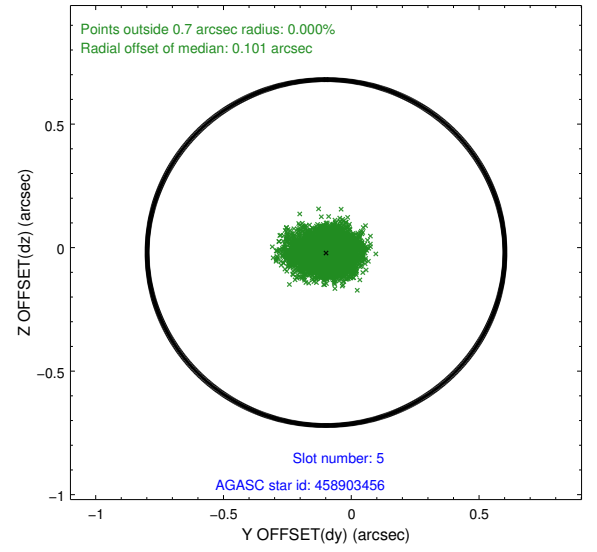
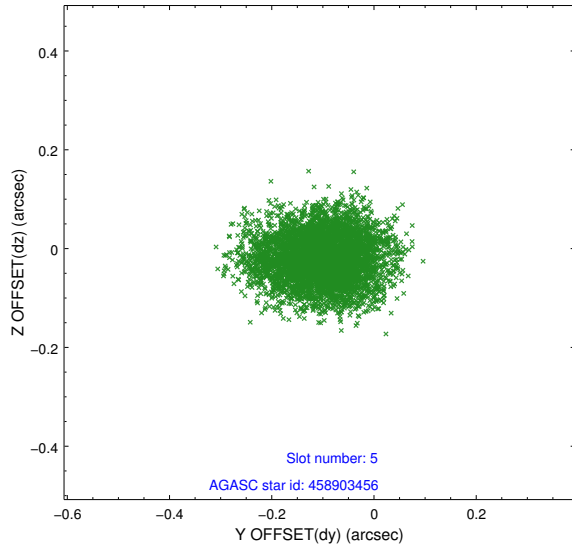
2.4.1 Slot 3



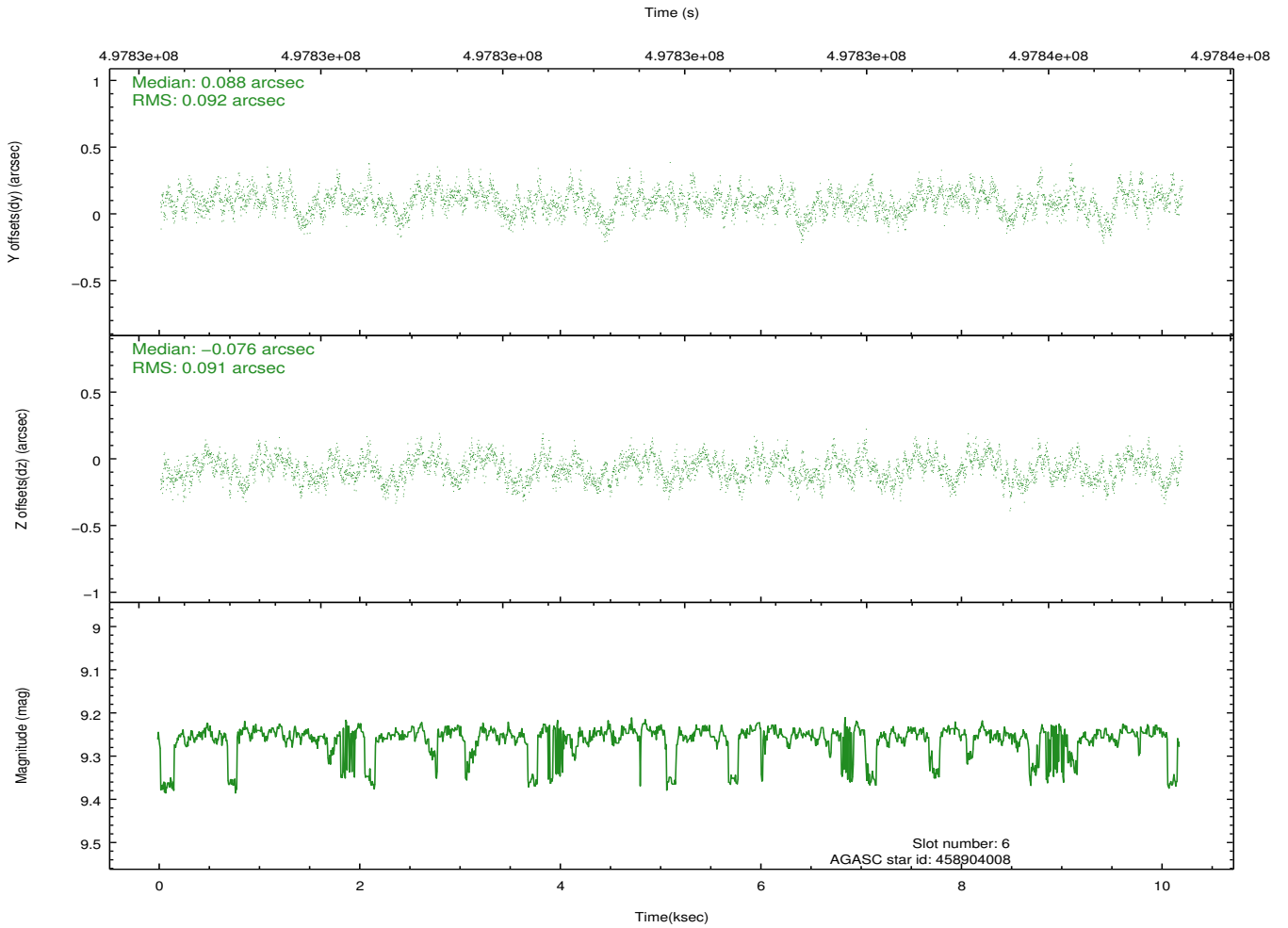
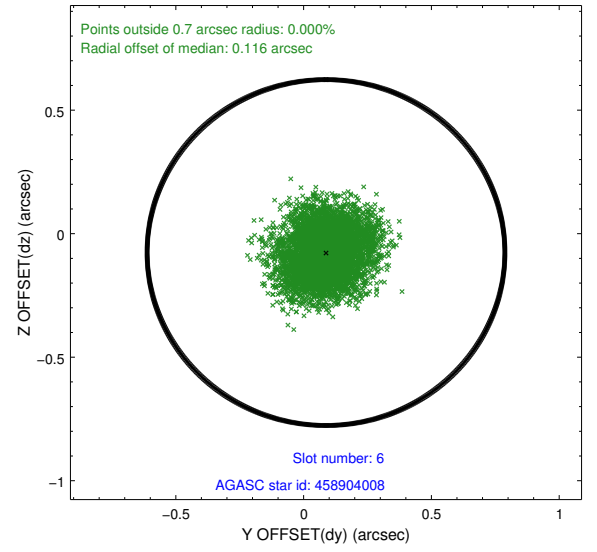
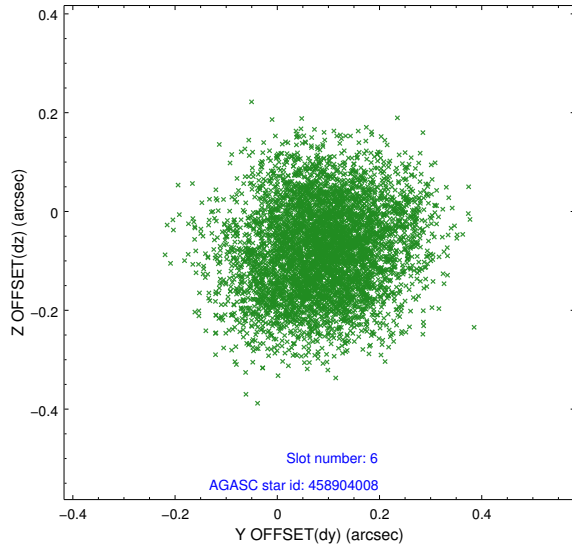
2.4.2 Slot 4



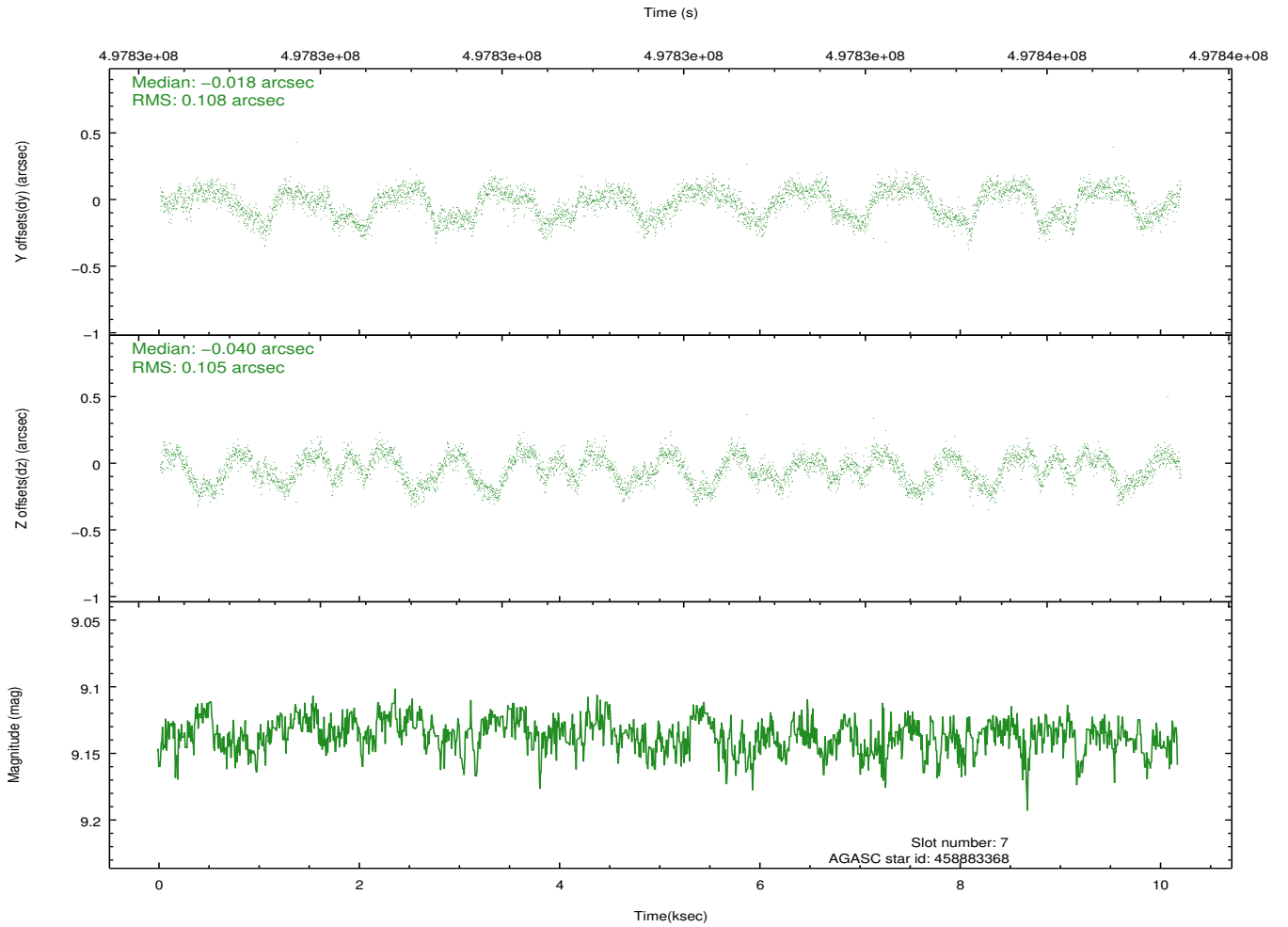
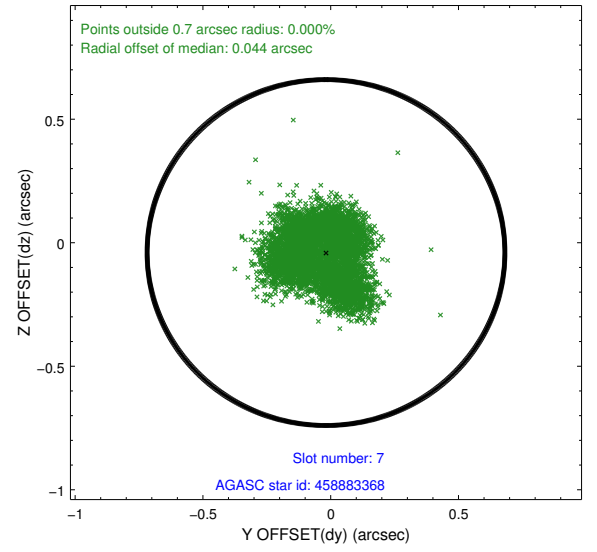
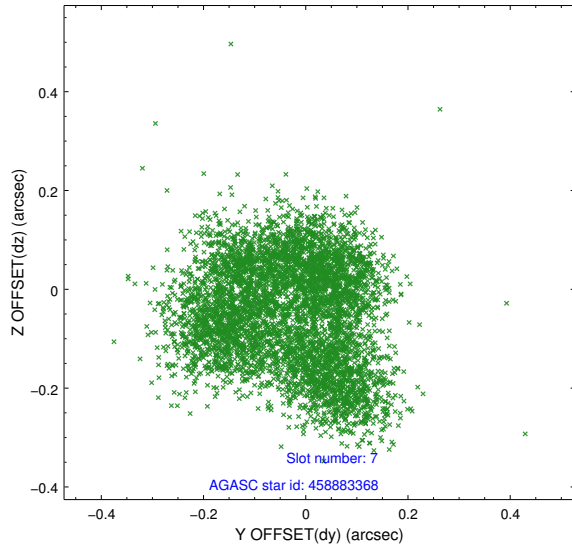
2.4.3 Slot 5



2.4.4 Slot 6

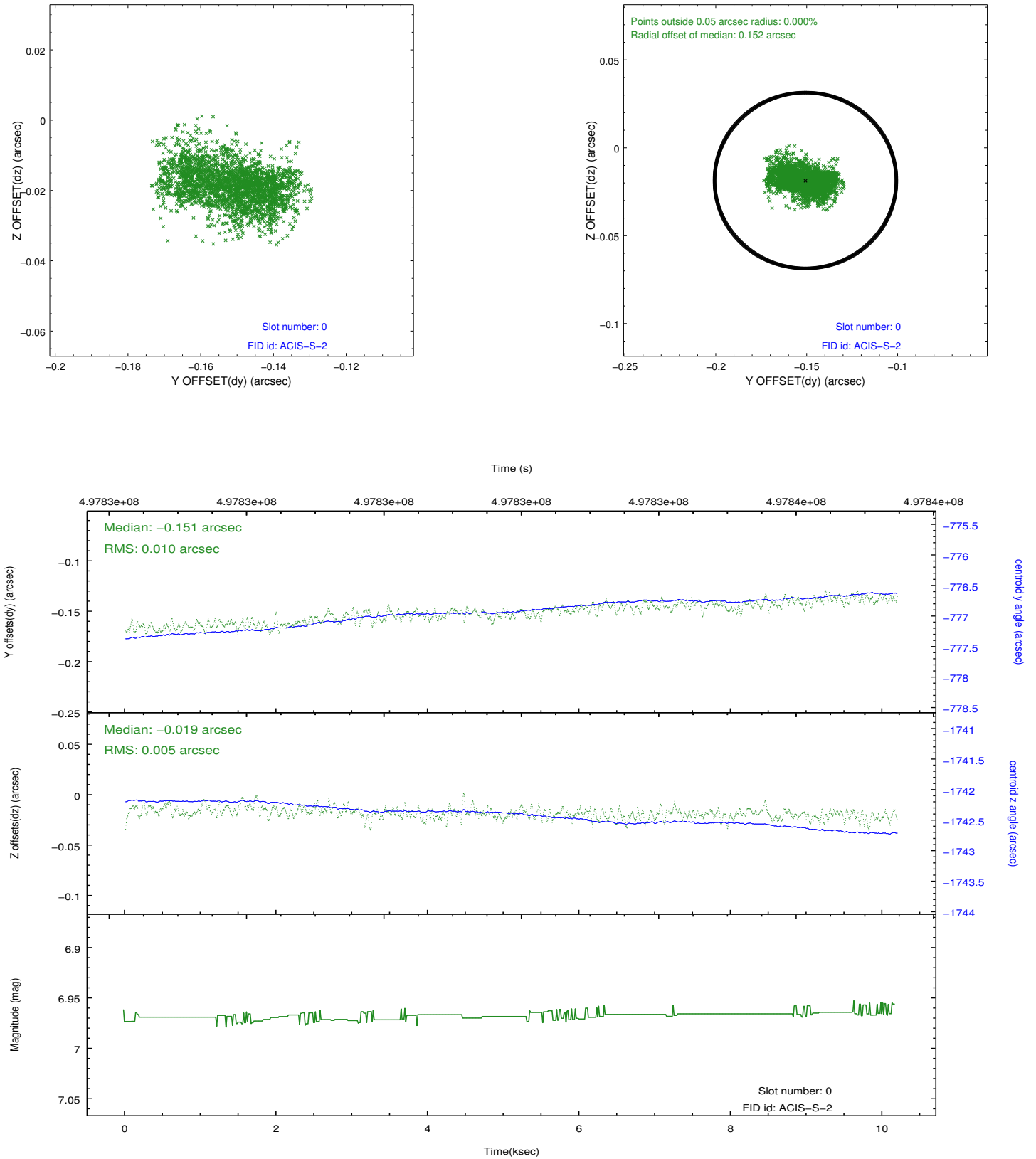


2.4.5 Slot 7

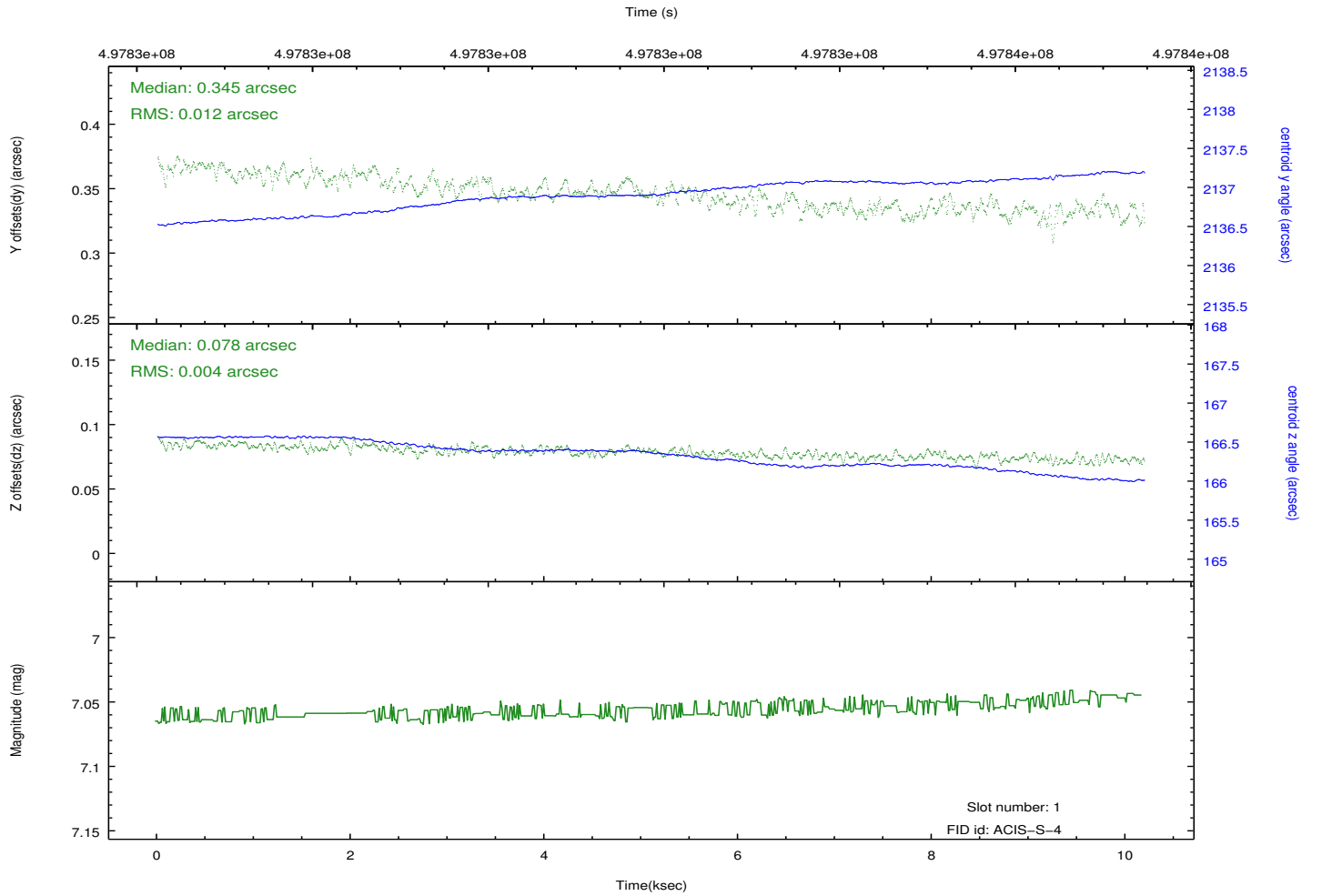
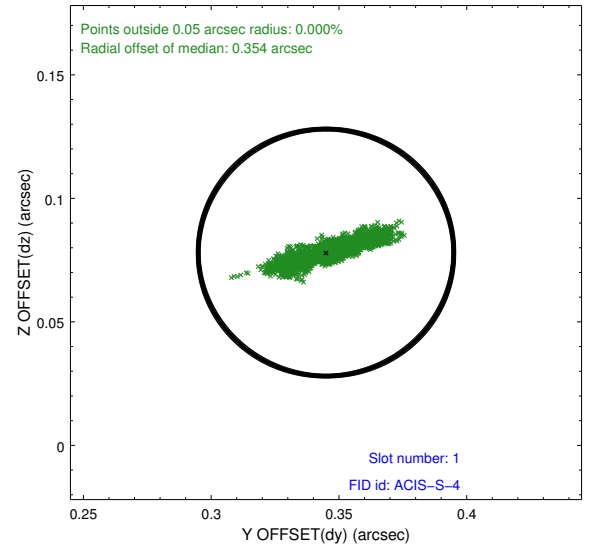
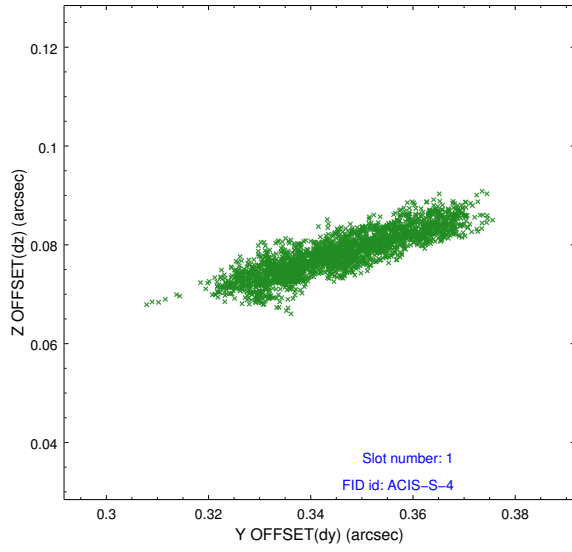


2.5 FID Slots

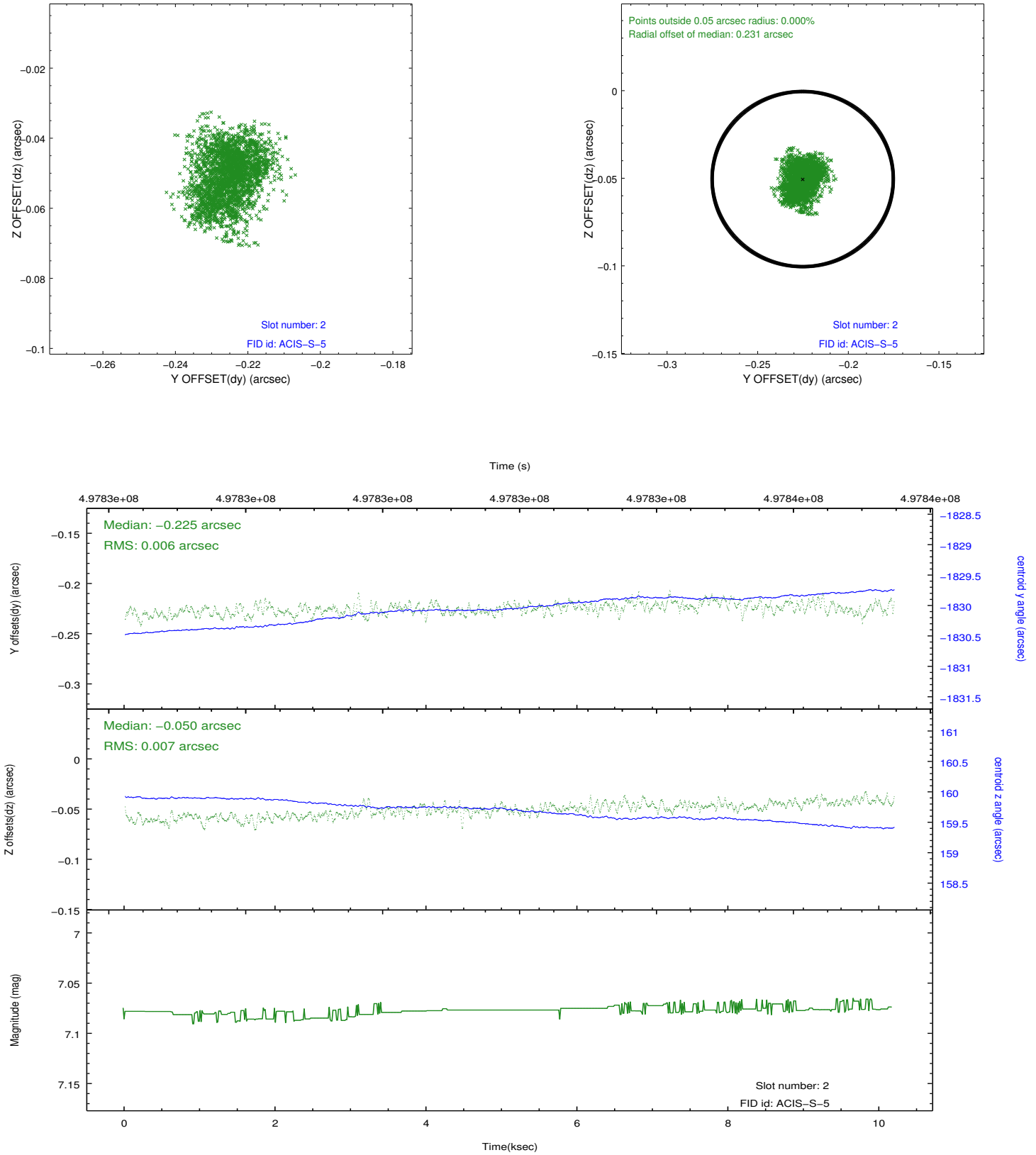
2.5.1 Slot 0



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	10.07746970129

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.