

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15000 - L2 Version 2
Chandra X-Ray Center

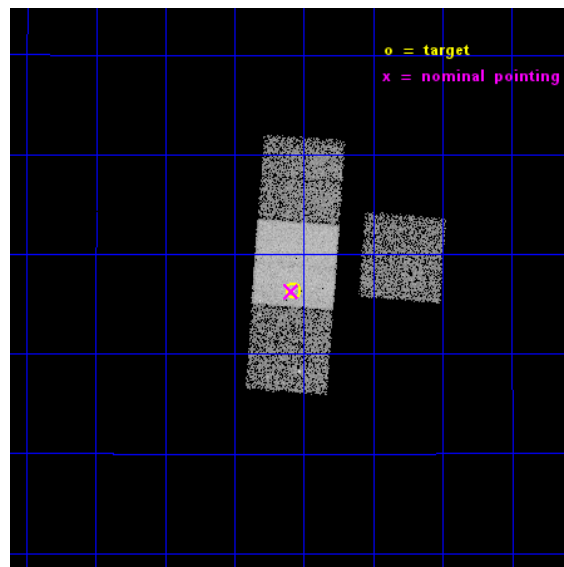
L2 Processing Date : Dec 1 2014

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1 Front

seq_num	702808	Sequence number
obs_id	15000	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszekiewicz	Principal investigator
object	3C175.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	108.519583	Observer's specified target RA [deg]
dec_targ	14.606111	Observer's specified target Dec [deg]
ra_nom	108.52236127286	Nominal RA [deg]
dec_nom	14.604667778615	Nominal Dec [deg]
roll_nom	274.31323430572	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10070.45370543	Sum of GTIs [s]
livetime	9938.8758140084	Livetime [s]
ontime3	10070.371625423	Sum of GTIs [s]
ontime6	10070.412665427	Sum of GTIs [s]
ontime7	10070.45370543	Sum of GTIs [s]
ontime8	10070.33058542	Sum of GTIs [s]
l2events	49531	Number of level 2 events



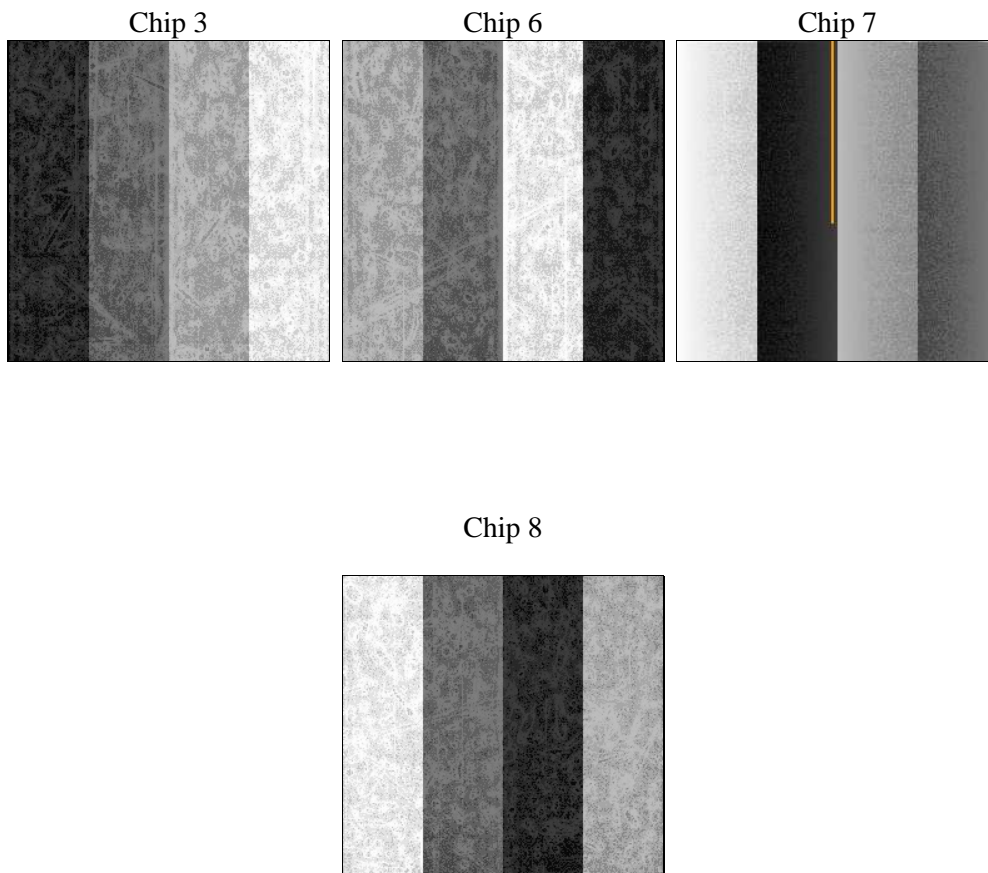
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10070.45370543	Sum of GTIs [s]
caldbver	4.6.4	 	ontime3	10070.371625423	Sum of GTIs [s]
date	2014-12-01T16:28:42	Date and time of file creation	ontime6	10070.412665427	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	10070.45370543	Sum of GTIs [s]
			ontime8	10070.33058542	Sum of GTIs [s]
			l1events	262445	Number of level 1 events

2.1.4 Events

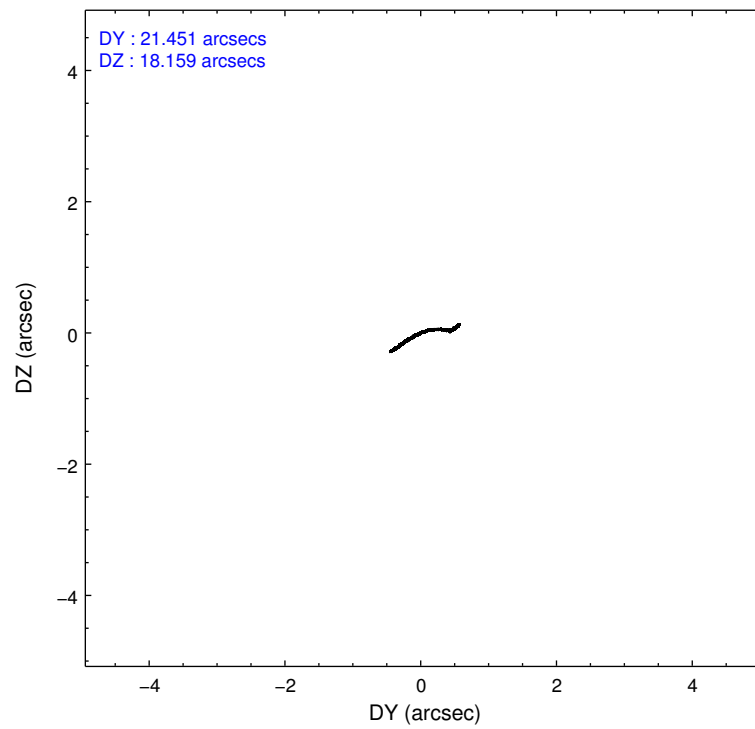
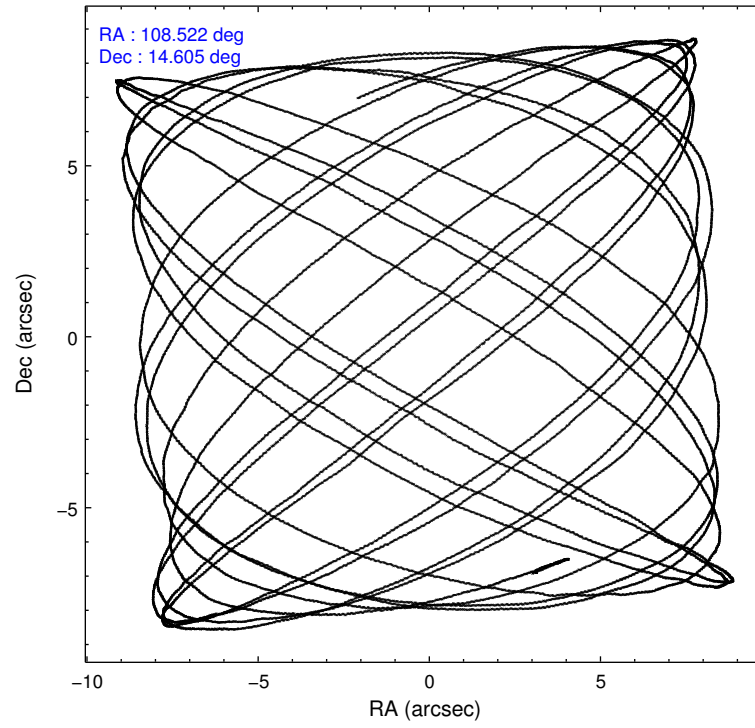
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	54339	56978	75335	75793
rejected events	48280	50144	42894	55501
rejected %	88%	88%	56%	73%

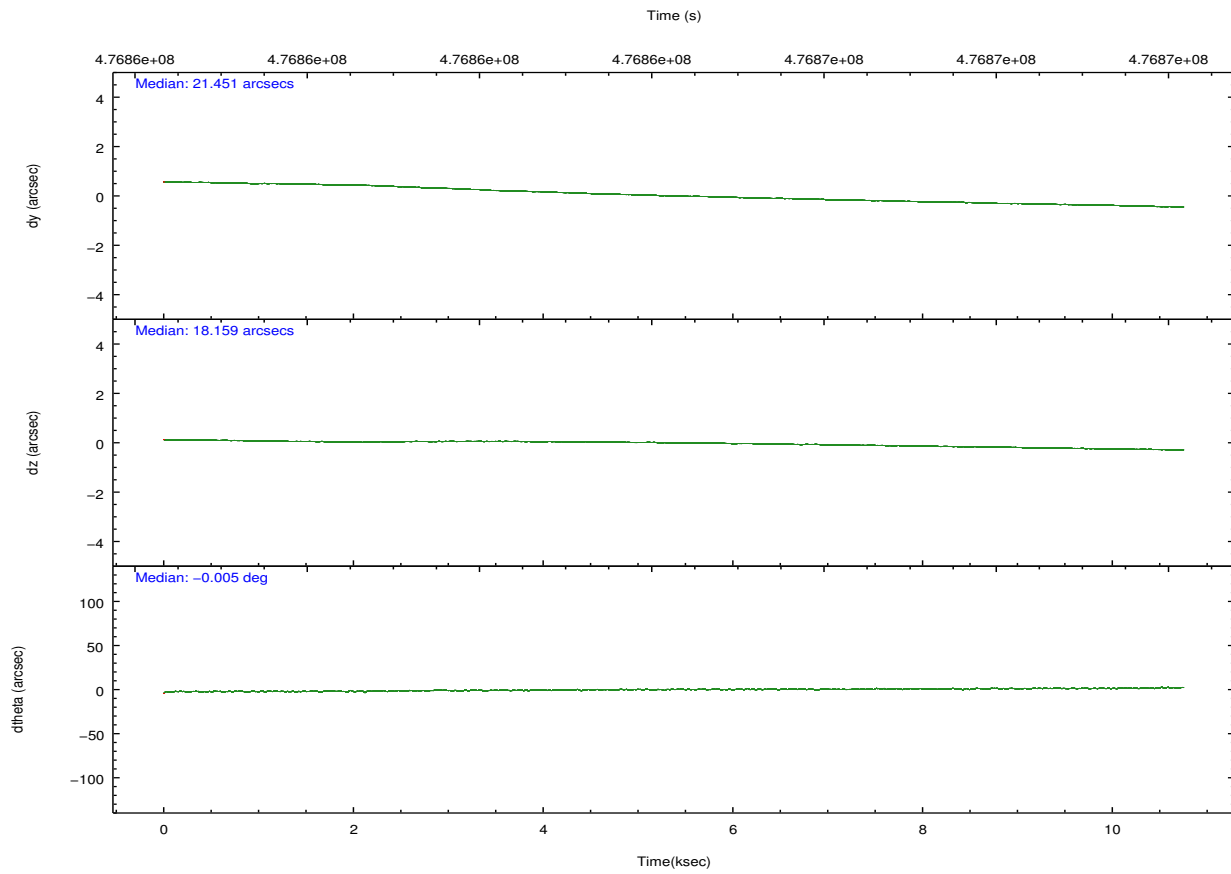
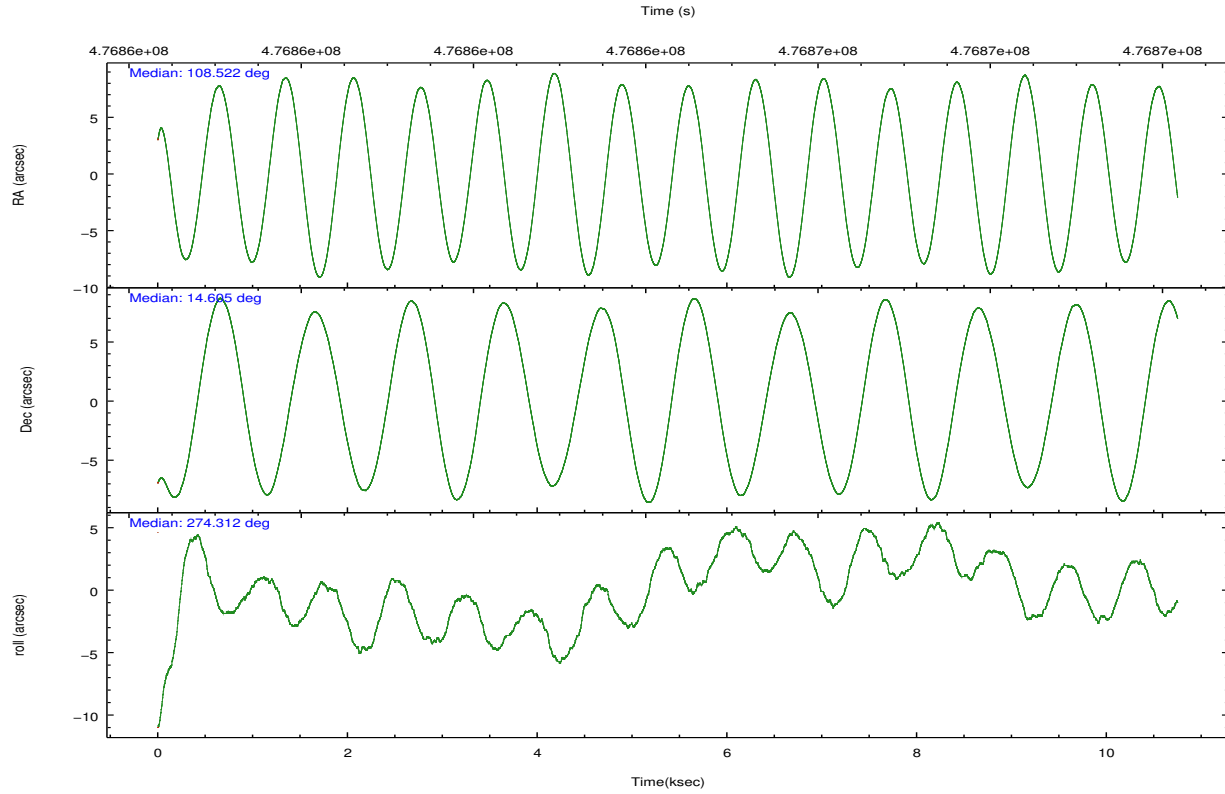
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2057	2425	2832	5960
	3%	4%	3%	7%
grade 1 events	36	29	86	49
	0%	0%	0%	0%
grade 2 events	1381	1495	6815	4366
	2%	2%	9%	5%
grade 3 events	613	710	2715	2446
	1%	1%	3%	3%
grade 4 events	689	600	2506	2294
	1%	1%	3%	3%
grade 5 events	2828	2694	7411	4083
	5%	4%	9%	5%
grade 6 events	1322	1605	17588	5266
	2%	2%	23%	6%
grade 7 events	45413	47420	35382	51329
	83%	83%	46%	67%

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	108.506092	108.5223612728639	CCD I2 on	N	N
[deg] Pointing Dec	14.627054	14.60466777861533	CCD I3 on	O1	Y
[deg] Pointing Roll	274.160705	274.3132343057177	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)	476859632.184000	476858020.34111	CCD S5 on	N	N
Observation start date	2013-02-10T04:59:25	2013-02-10T04:33:40	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	476869632.184000	476870402.34178	On-chip summing requested	N	N
Observation end date	2013-02-10T07:46:05	2013-02-10T08:00:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



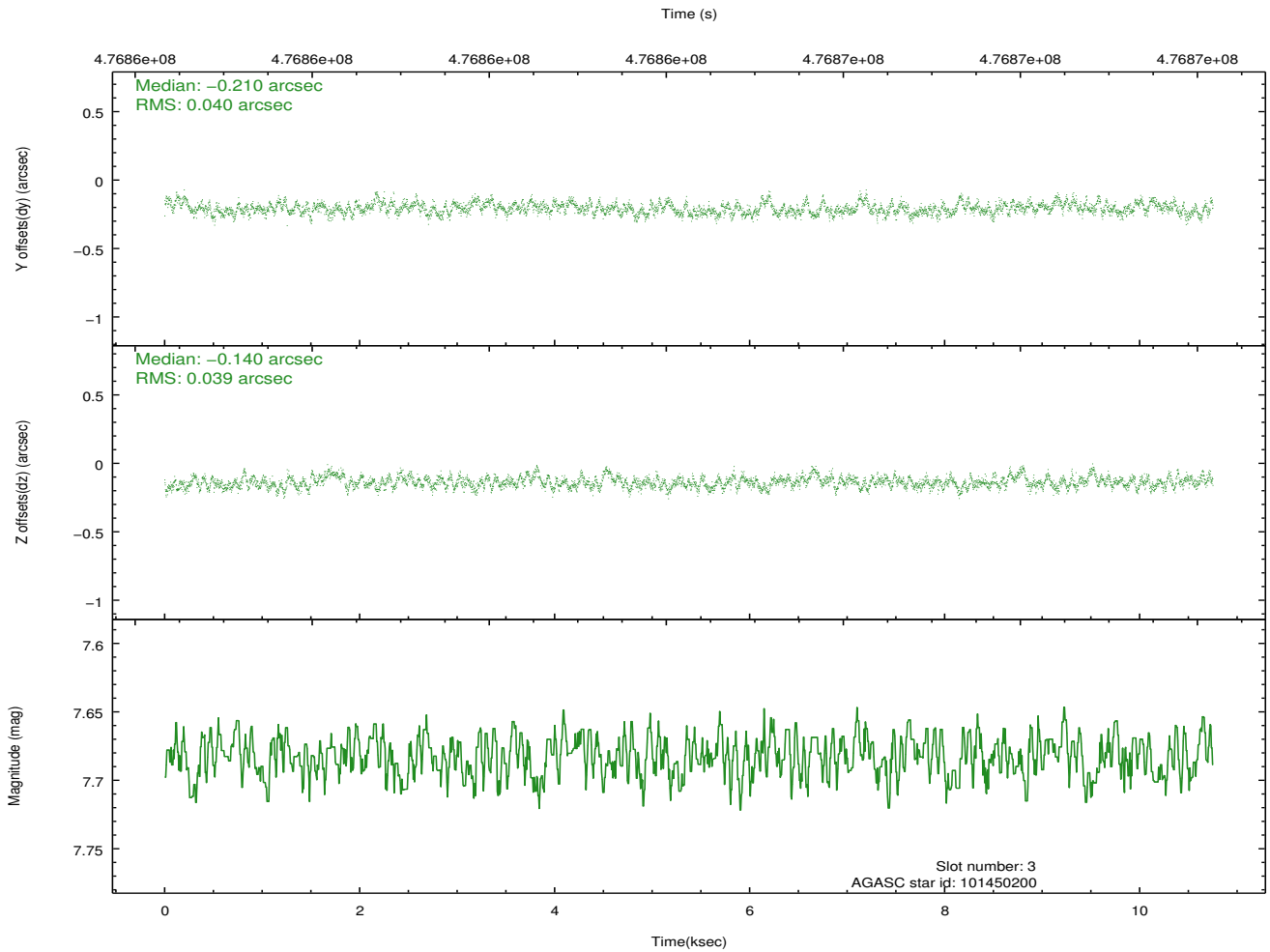
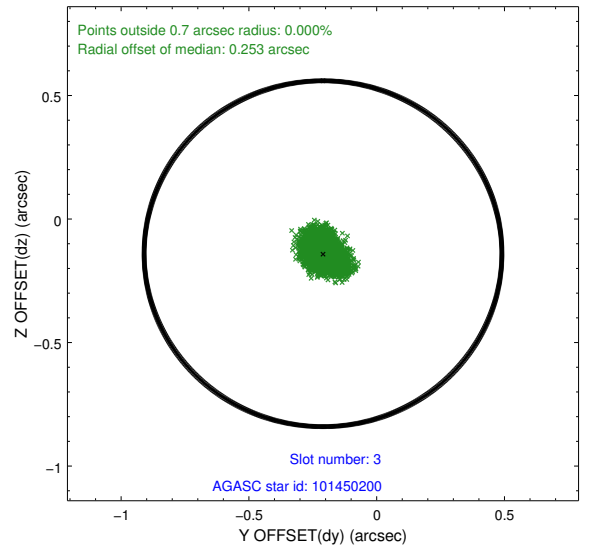
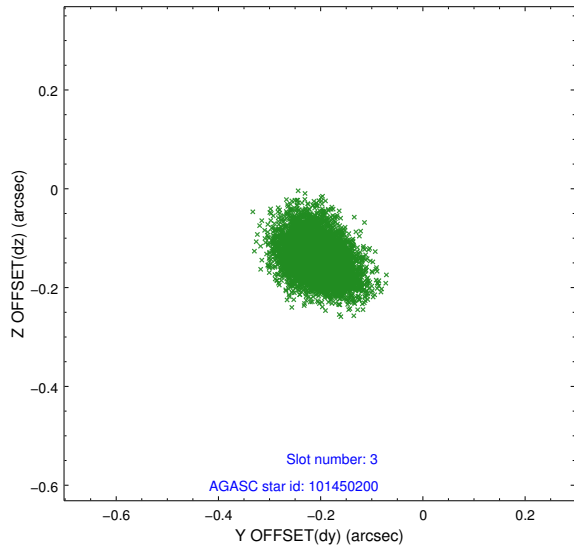


Slot Statistics

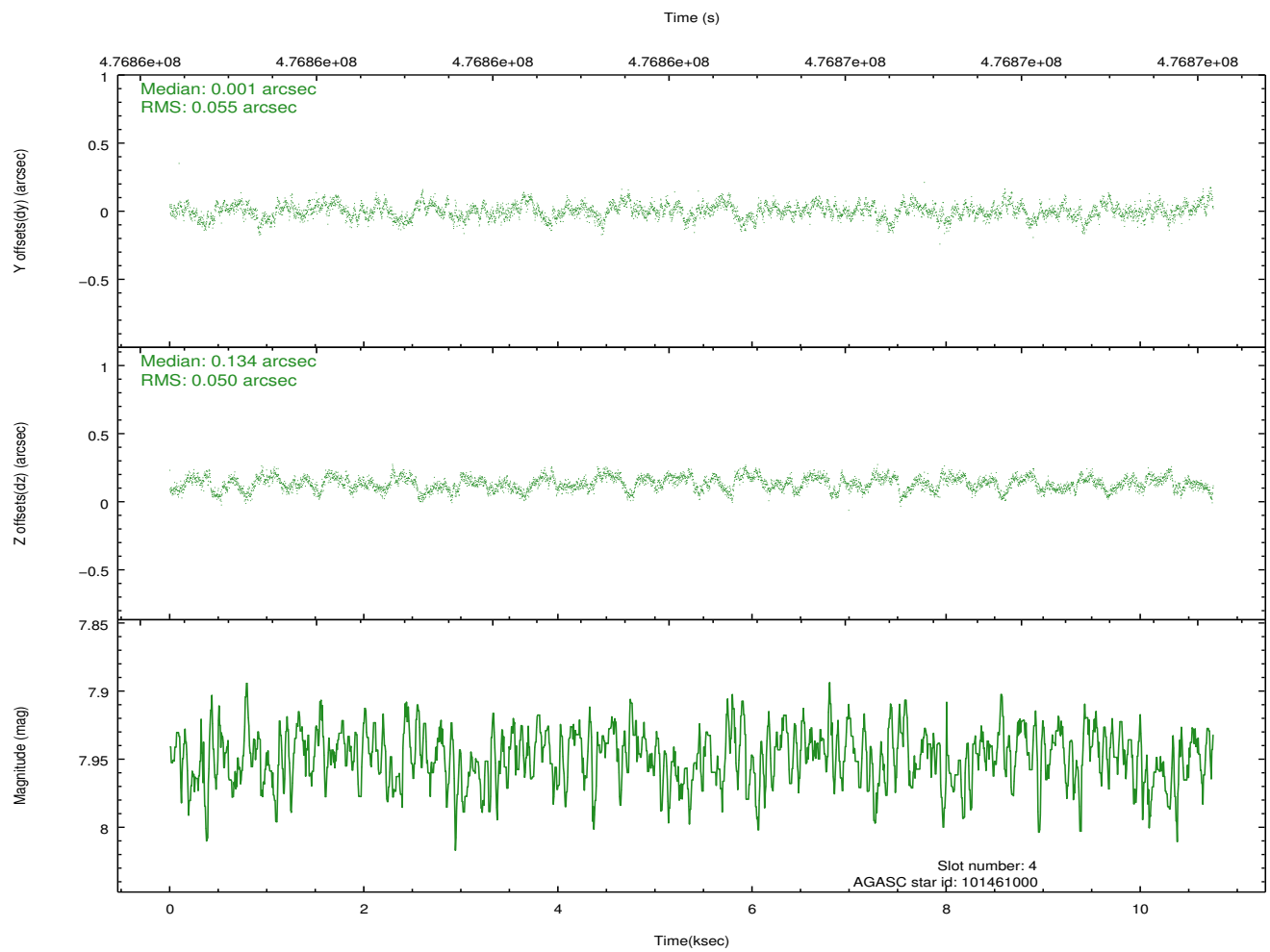
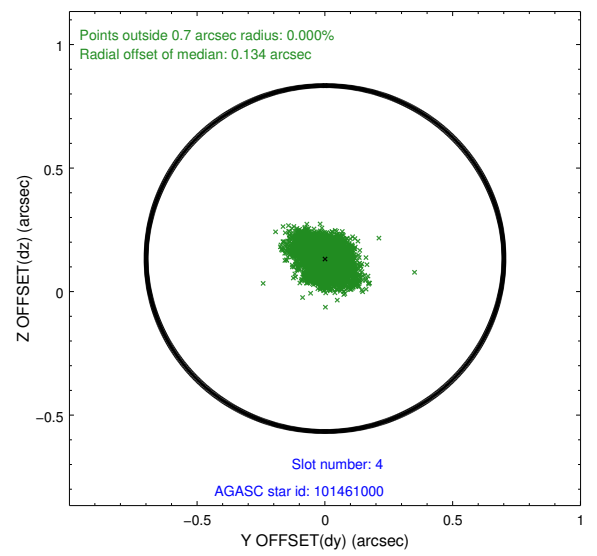
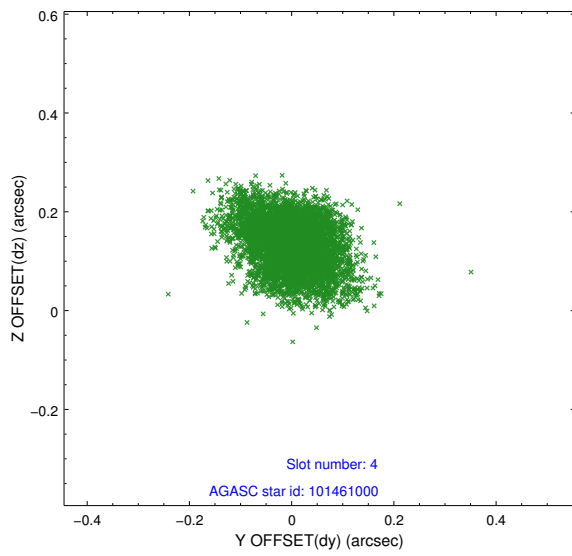
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.09	2623	0.042	0.007	0.011	0.018	0.000000	0.000000	921.42	-1735.21
1	FID		ACIS-S-4	7.09	2623	0.164	-0.021	0.010	0.015	0.000000	0.000000	2139.22	168.42
2	FID		ACIS-S-5	7.12	2623	-0.232	0.026	0.013	0.022	0.000000	0.000000	-1827.10	162.62
3	GUIDE	used	101450200	7.68	5245	-0.210	-0.140	0.059	0.096	108.967649	14.808526	-536.37	1649.57
4	GUIDE	used	101461000	7.95	5244	0.001	0.134	0.078	0.129	108.497821	13.974395	2341.47	-198.63
5	GUIDE	used	101465512	9.24	5239	0.158	-0.194	0.121	0.199	108.736177	14.002946	2299.51	638.56
6	GUIDE	used	176425168	8.31	5240	0.106	0.168	0.073	0.116	108.002585	15.168406	-2071.95	-1603.08
7	GUIDE	used	176427432	8.25	5242	-0.068	0.032	0.085	0.145	108.824921	15.238643	-2116.75	1264.14

2.4 Star Slots

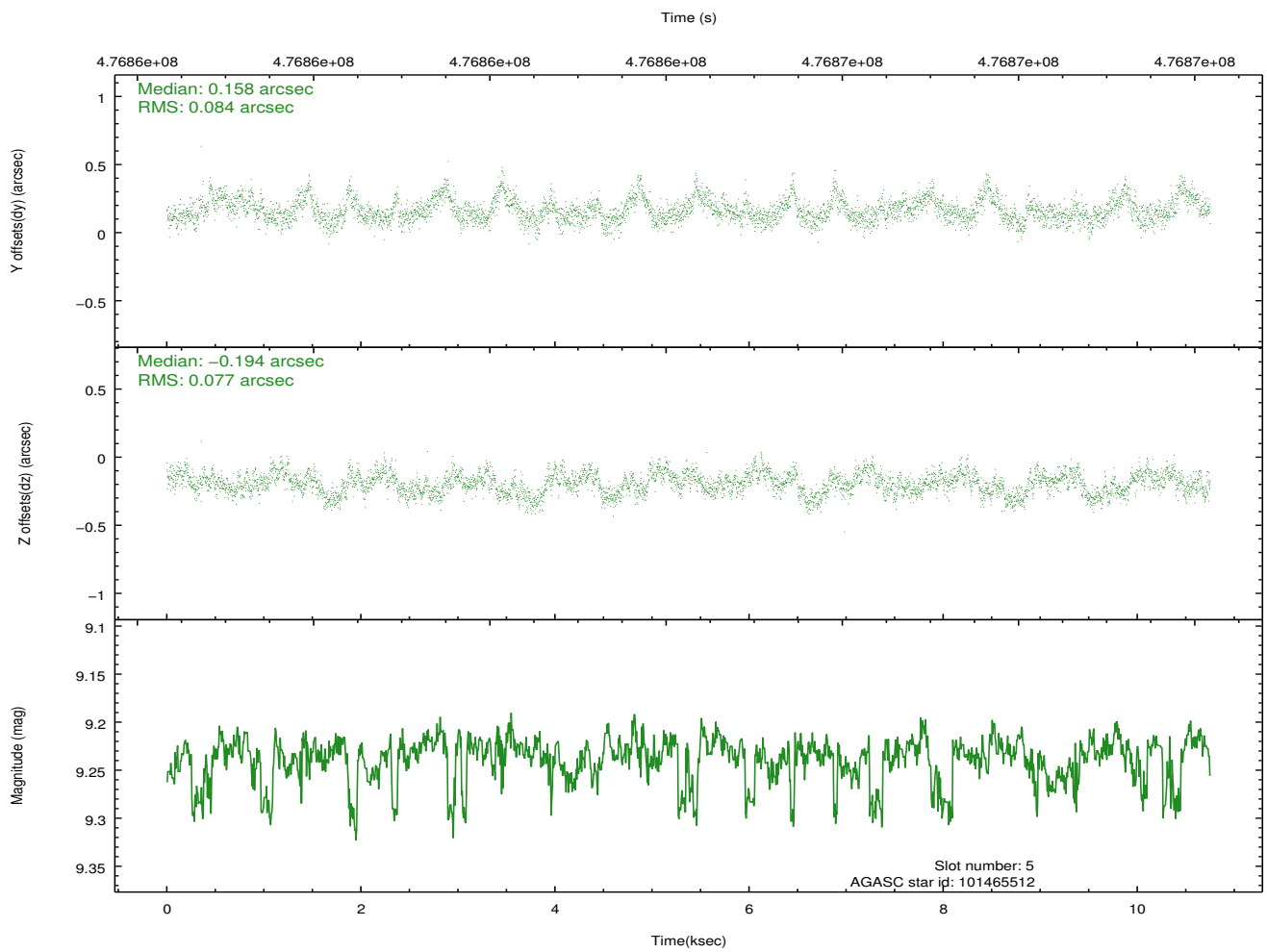
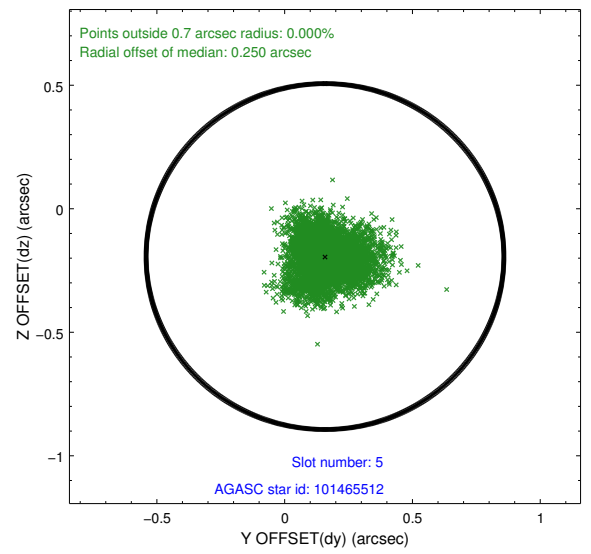
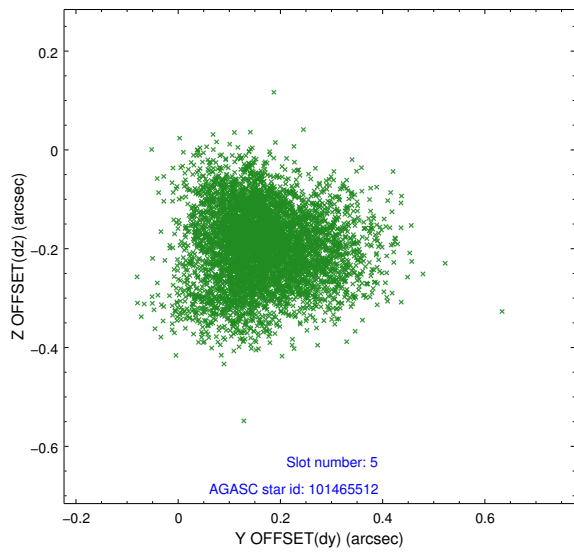
2.4.1 Slot 3



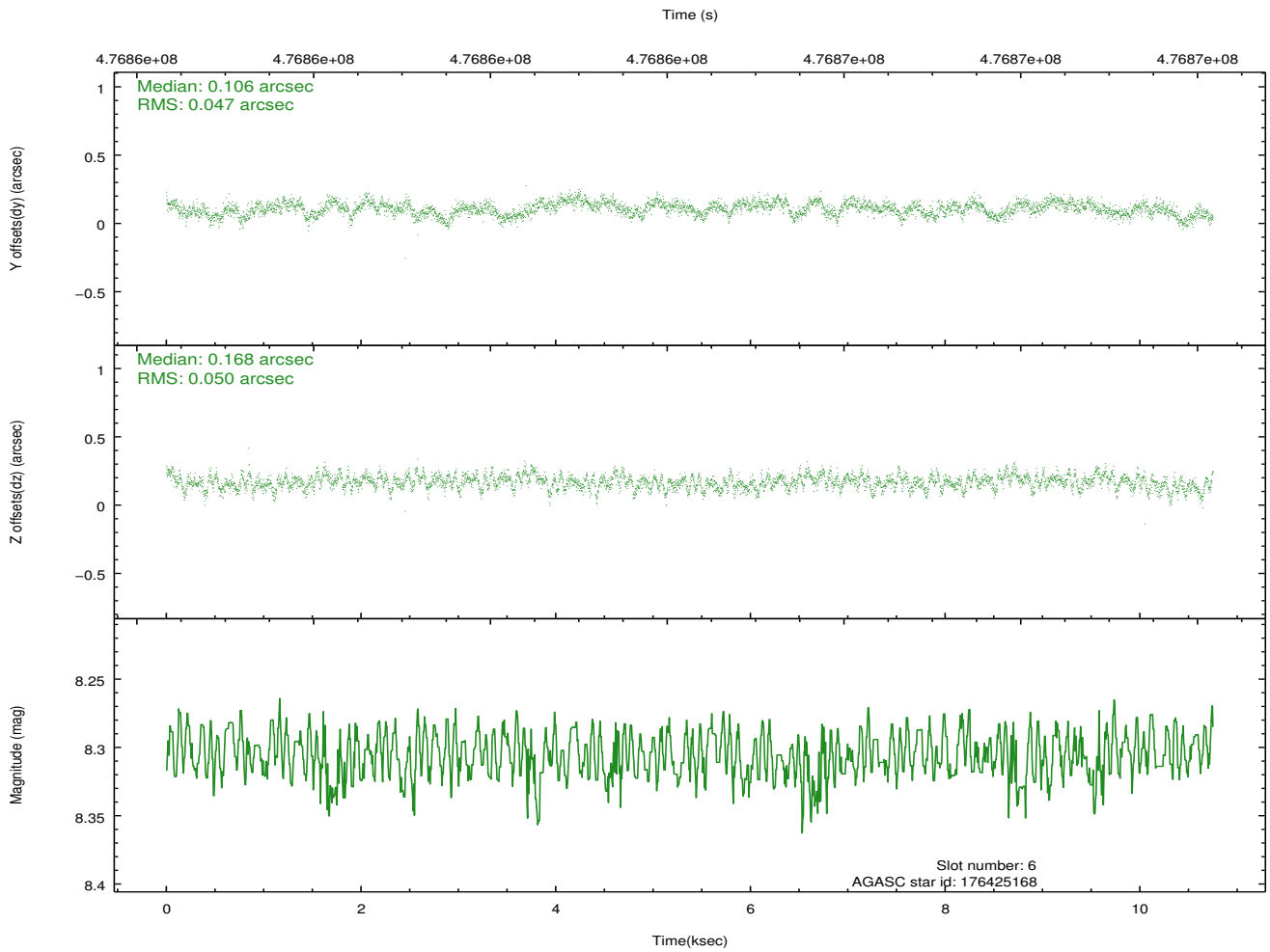
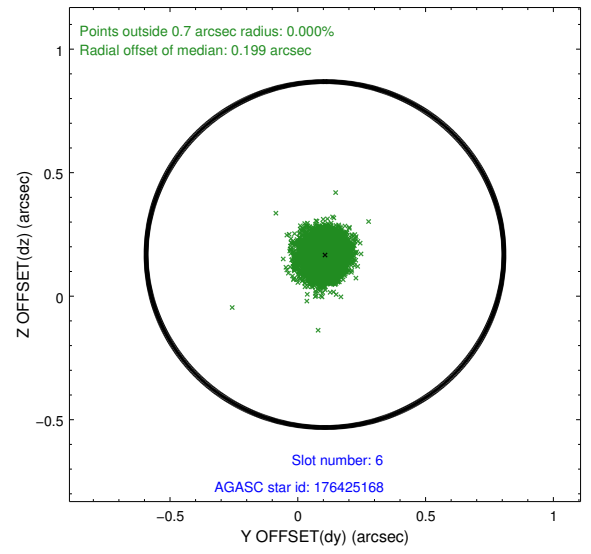
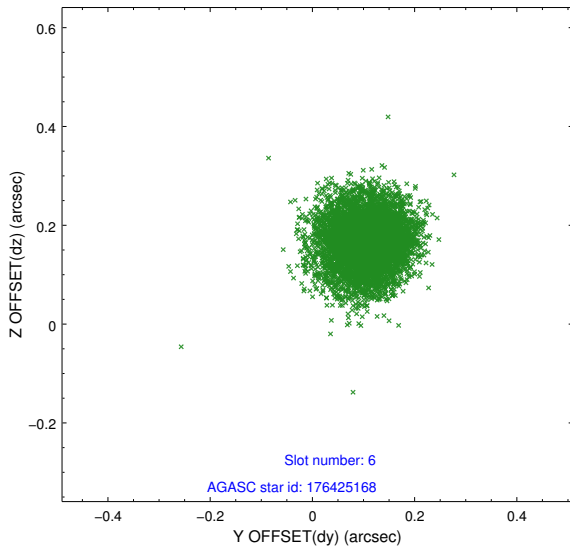
2.4.2 Slot 4



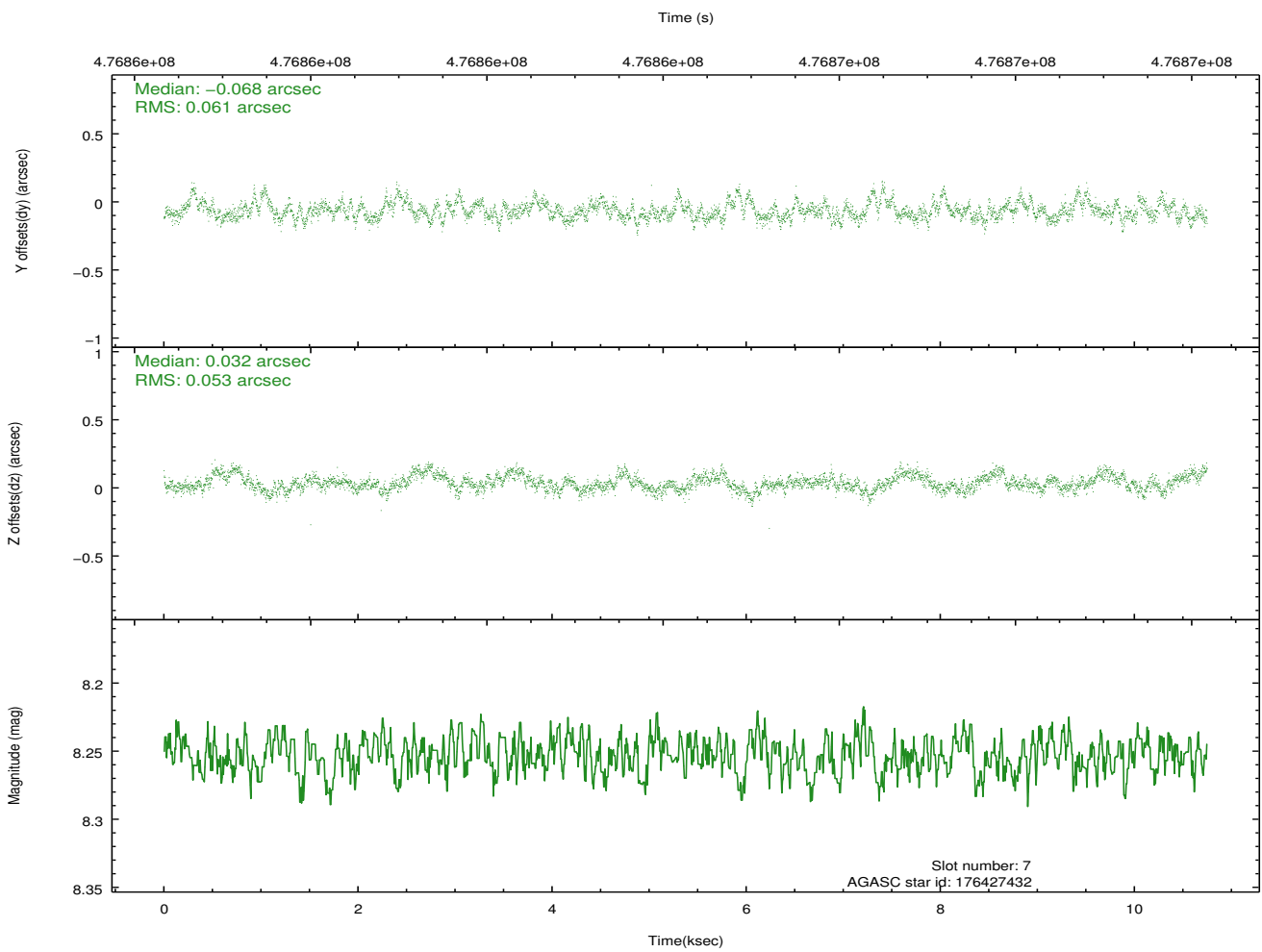
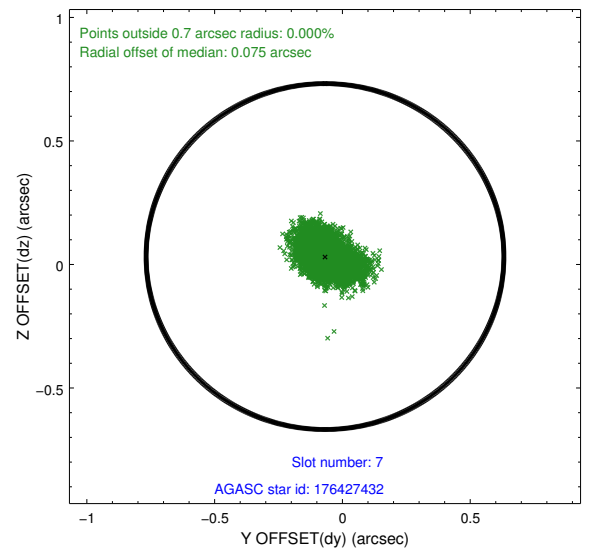
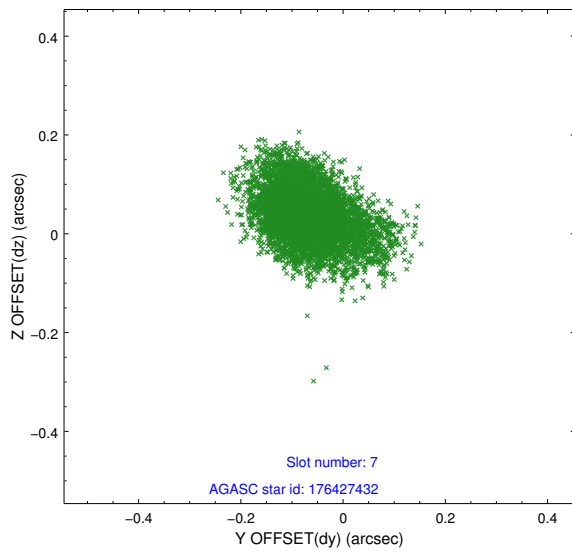
2.4.3 Slot 5



2.4.4 Slot 6

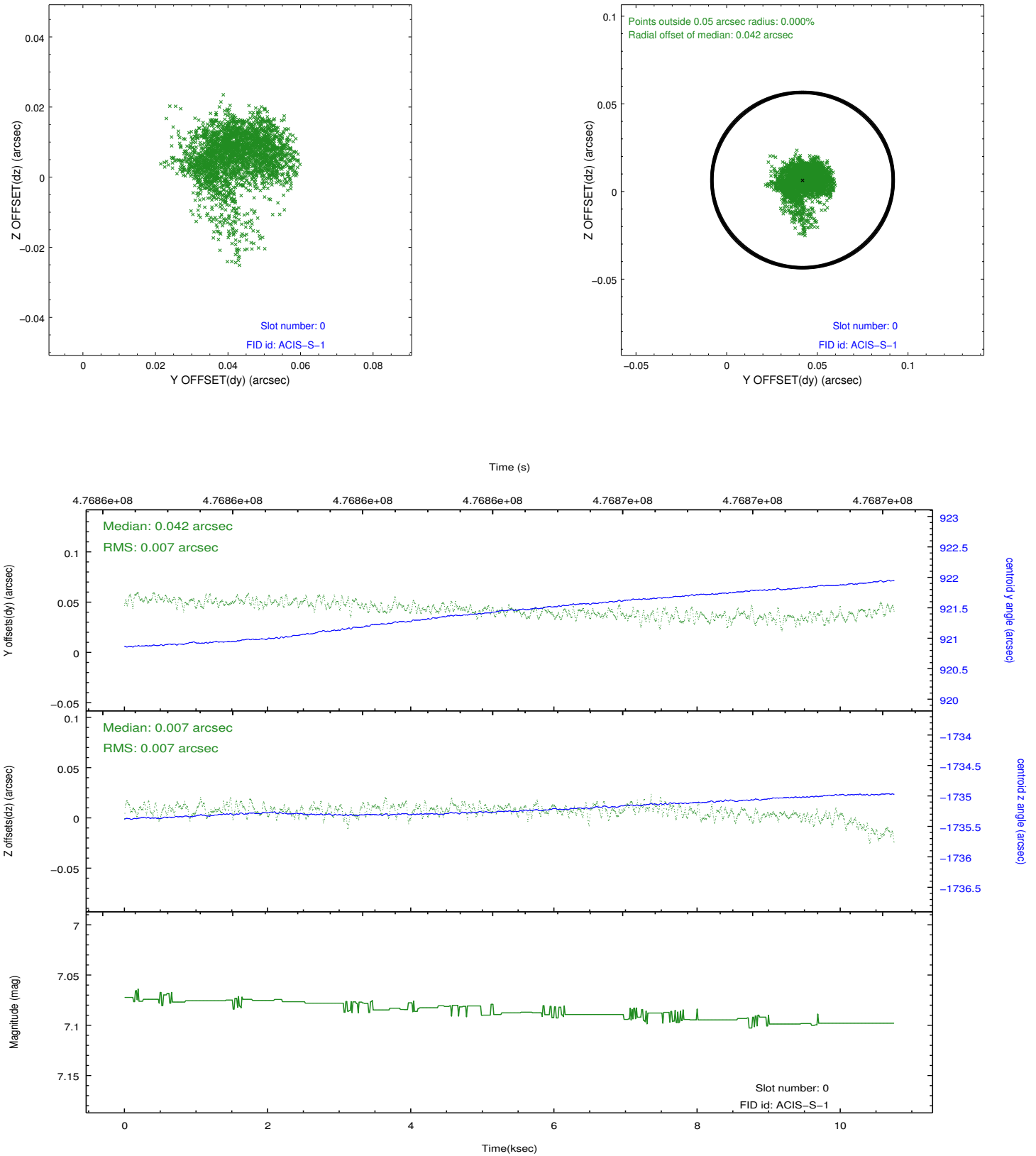


2.4.5 Slot 7

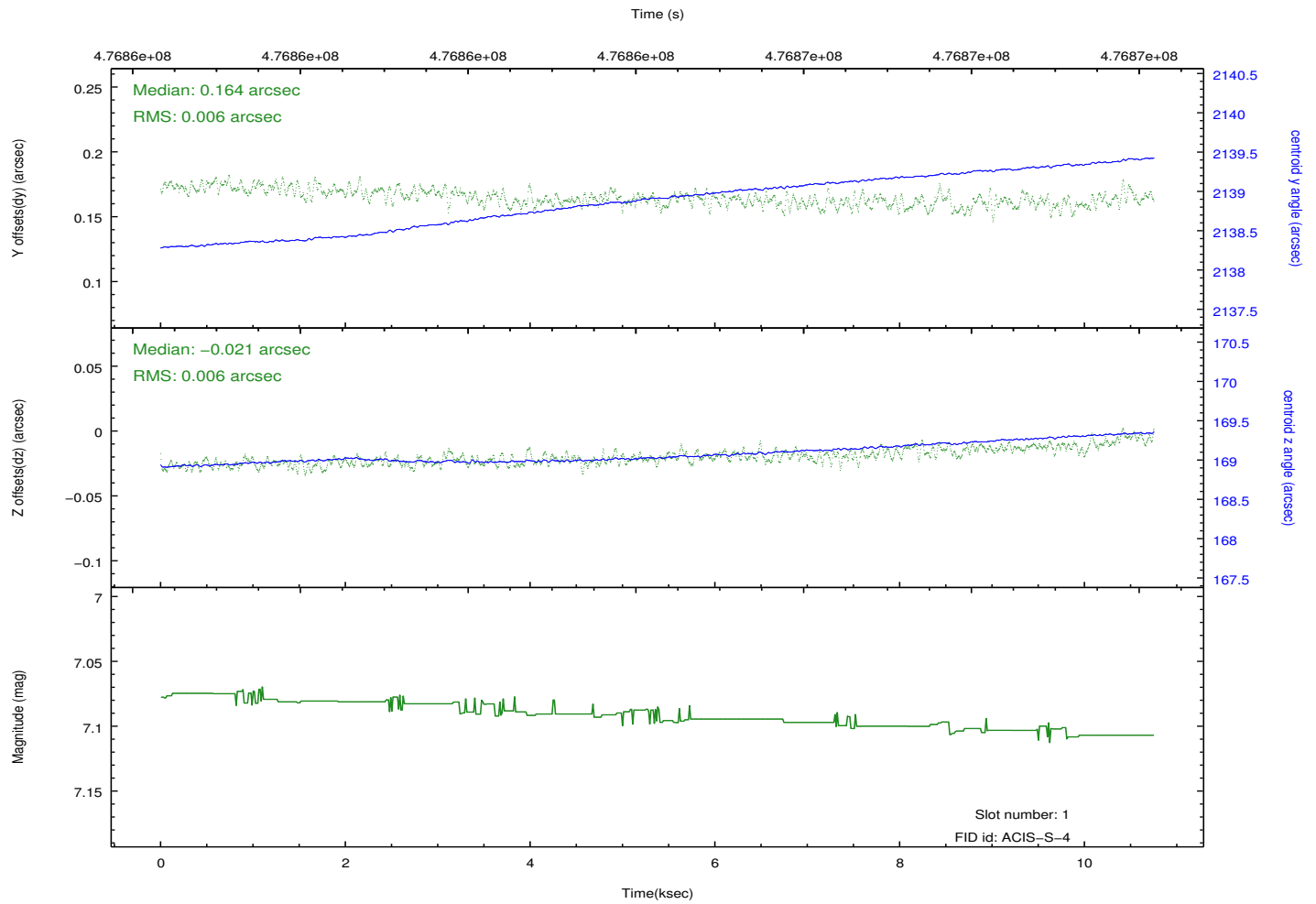
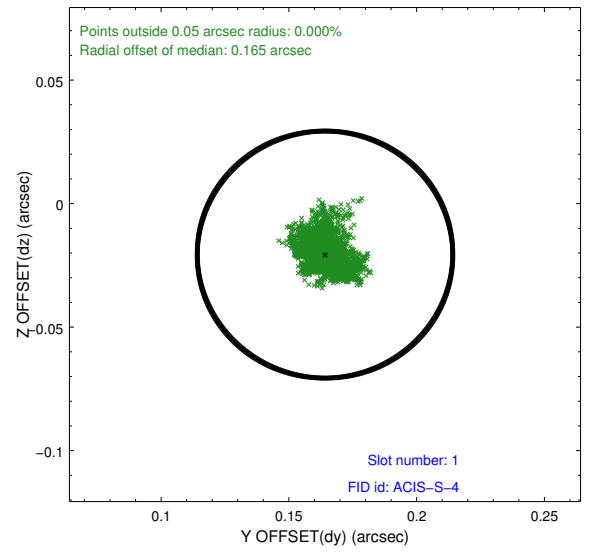
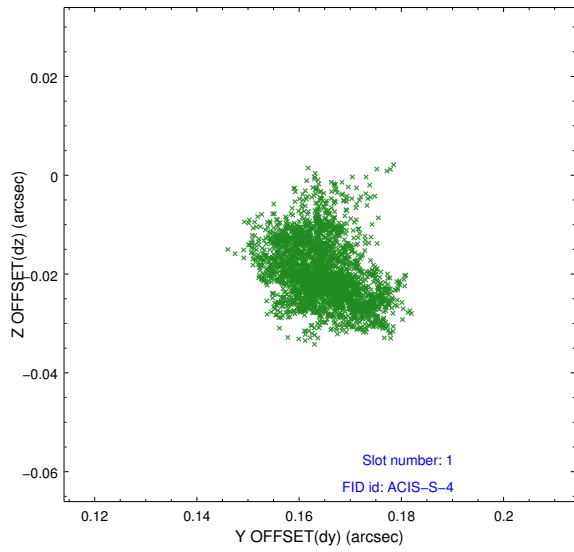


2.5 FID Slots

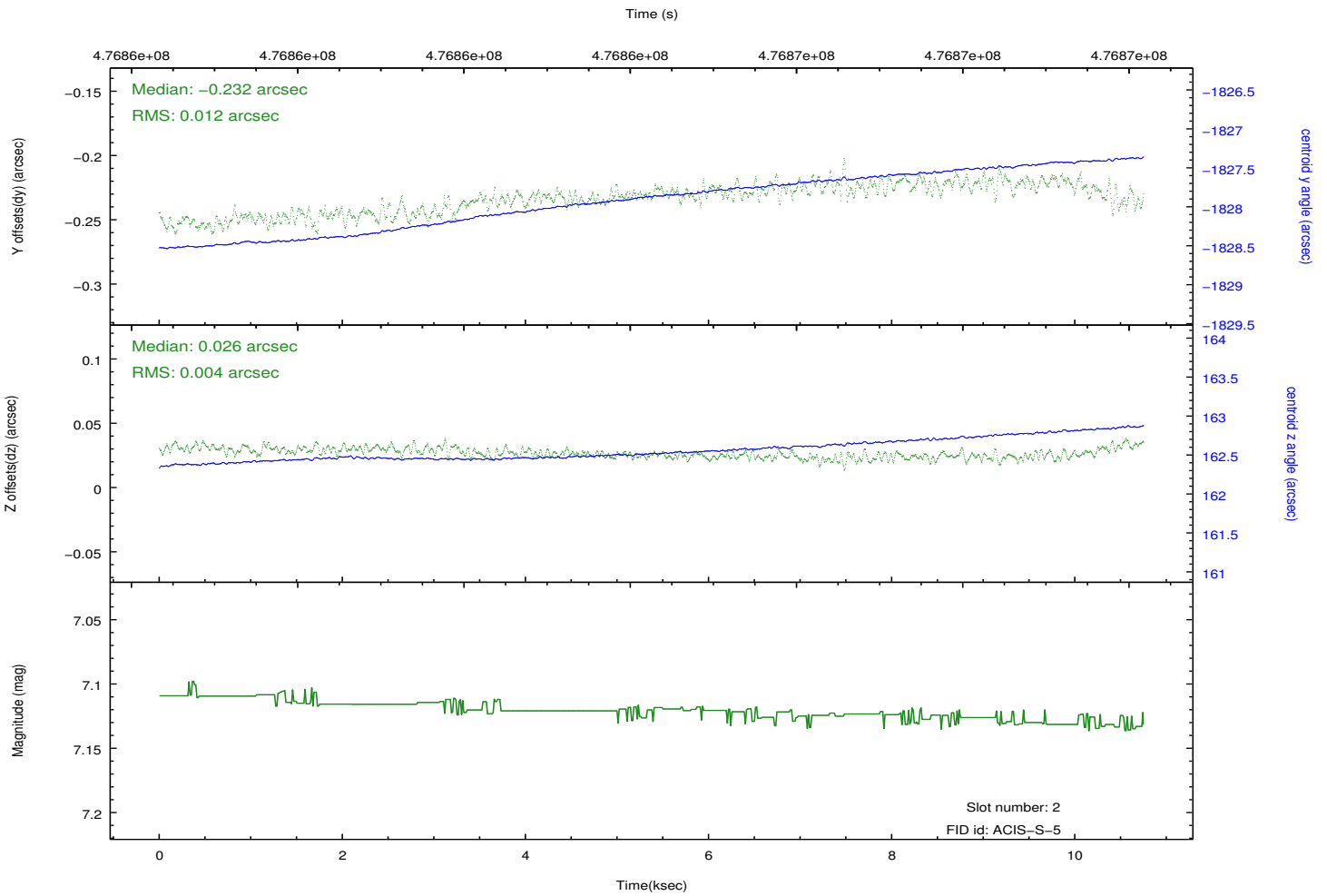
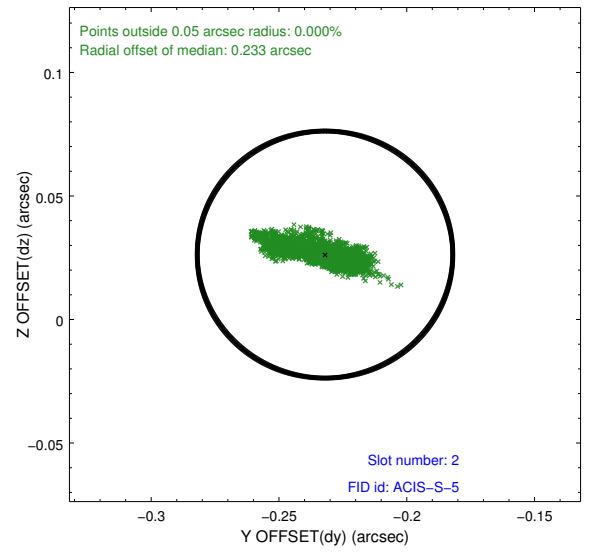
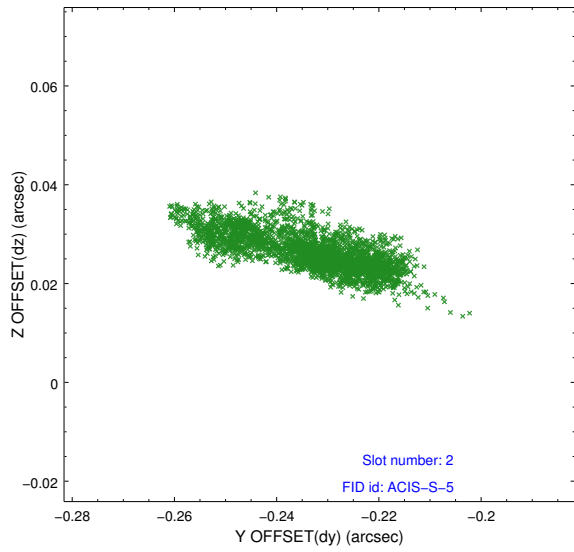
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.07045370543

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.