

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16434 - L2 Version 3
Chandra X-Ray Center

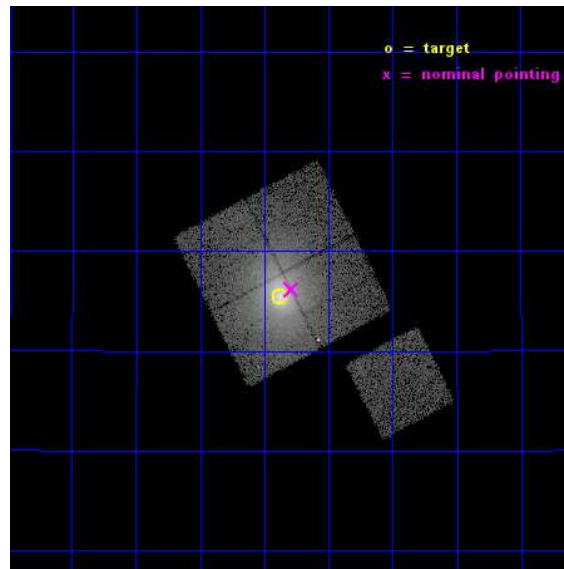
L2 Processing Date : Dec 10 2014

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1 Front

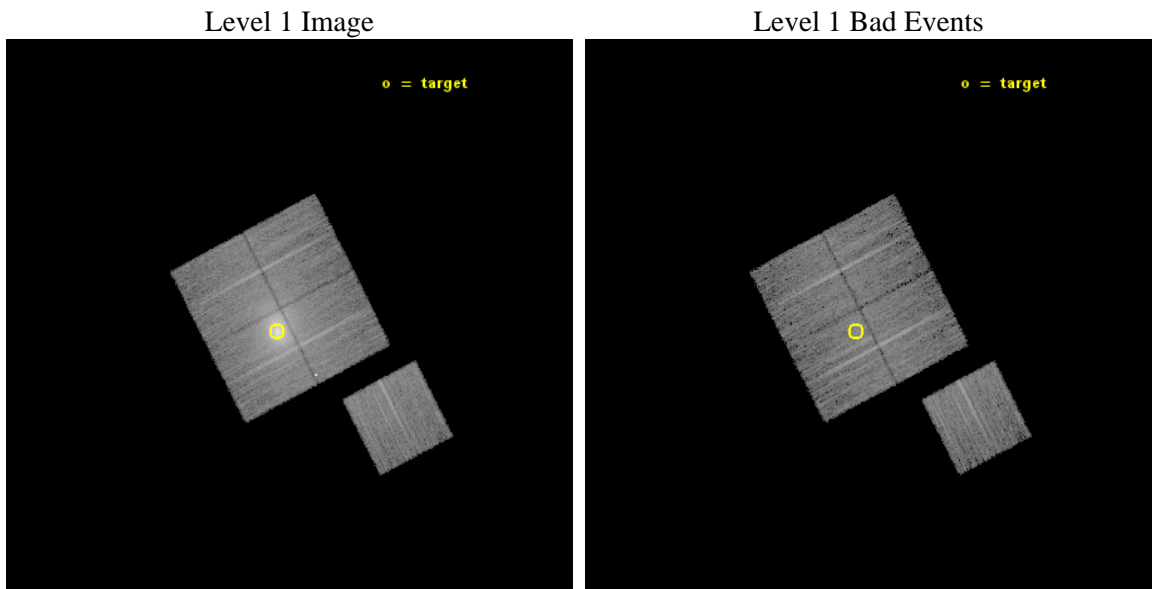
seq_num	890081	Sequence number
obs_id	16434	Observation id
title	AO-15 Calibration Observations of A1795	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.19729172645	Nominal RA [deg]
dec_nom	26.603223409403	Nominal Dec [deg]
roll_nom	152.57451091051	Nominal Roll [deg]
revision	3	Processing version of data
ontime	15083.96927321	Sum of GTIs [s]
livetime	14886.886109998	Livetime [s]
ontime0	15083.8461532	Sum of GTIs [s]
ontime1	15083.887193203	Sum of GTIs [s]
ontime2	15083.928233206	Sum of GTIs [s]
ontime3	15083.96927321	Sum of GTIs [s]
ontime6	15083.805113196	Sum of GTIs [s]
l2events	147273	Number of level 2 events



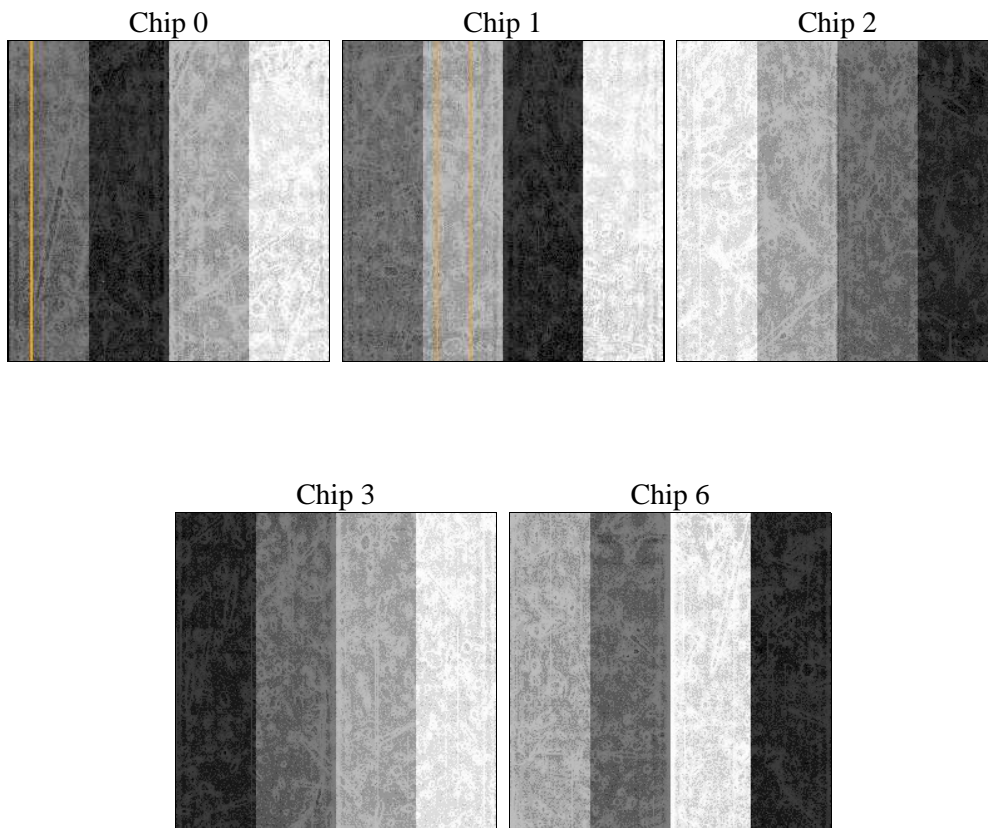
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	15083.96927321	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	15083.8461532	Sum of GTIs [s]
date	2014-12-10T17:57:46	Date and time of file creation	ontime1	15083.887193203	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	15083.928233206	Sum of GTIs [s]
			ontime3	15083.96927321	Sum of GTIs [s]
			ontime6	15083.805113196	Sum of GTIs [s]
			l1events	461917	Number of level 1 events

2.1.4 Events

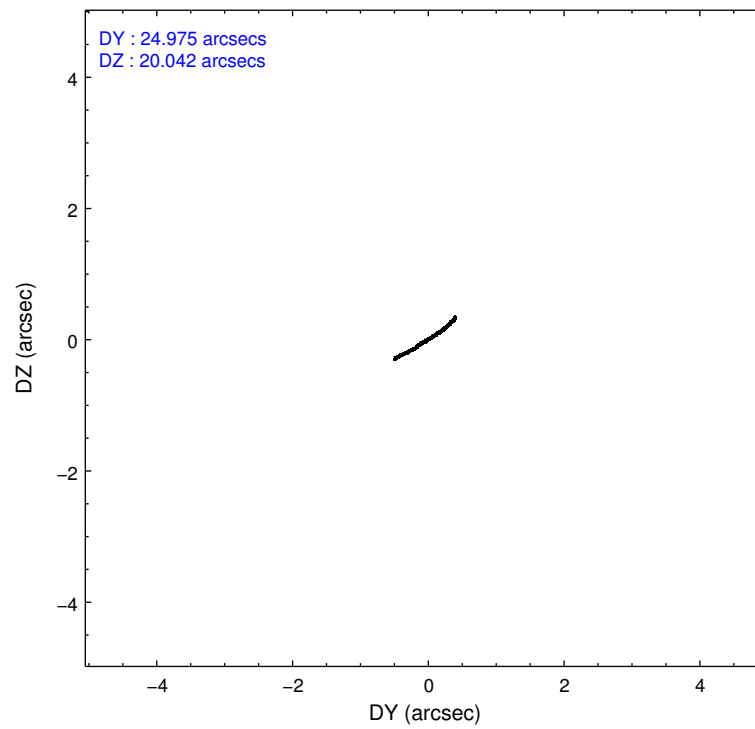
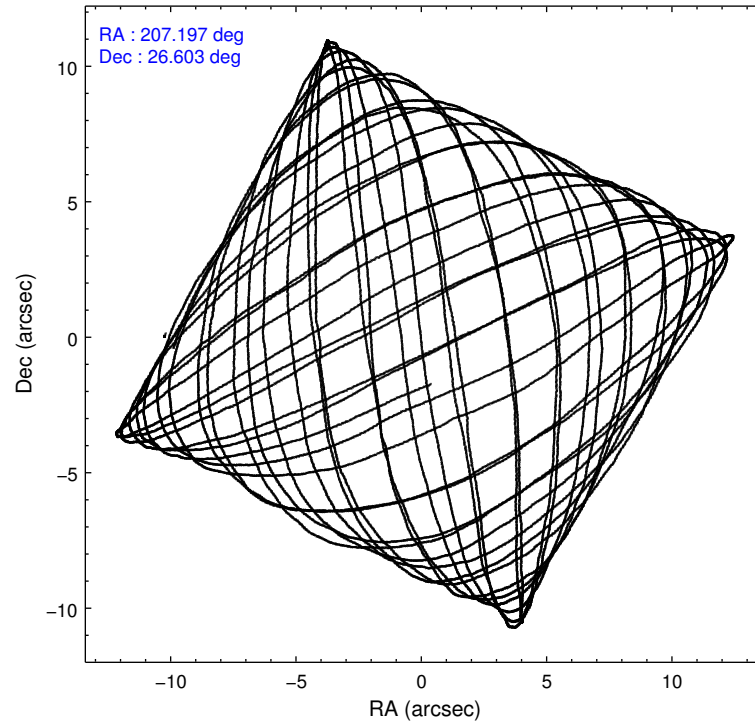
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	72760	80283	88408	149785	70681
rejected events	57499	58682	62842	63569	61703
rejected %	79%	73%	71%	42%	87%

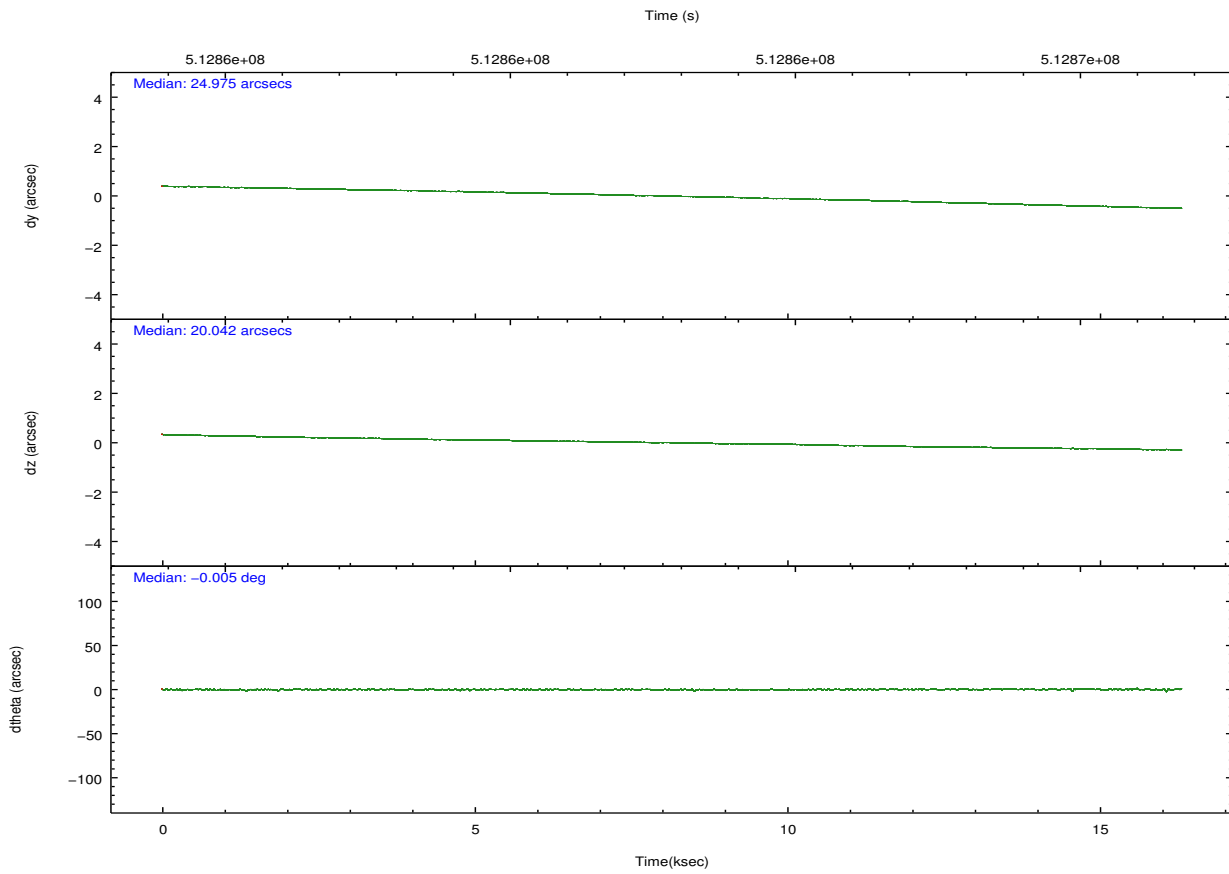
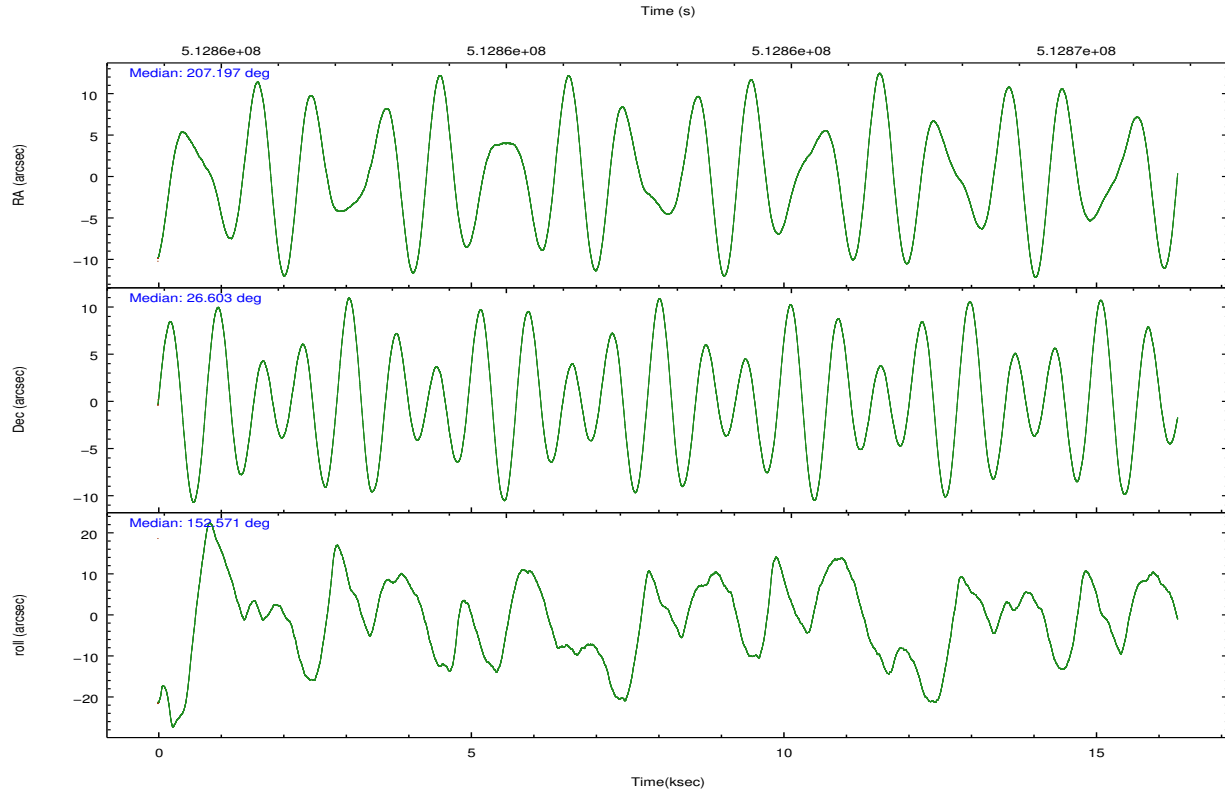
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8409	12996	17099	66834	3145
	11%	16%	19%	44%	4%
grade 1 events	67	64	116	328	33
	0%	0%	0%	0%	0%
grade 2 events	2816	3704	3695	9488	1964
	3%	4%	4%	6%	2%
grade 3 events	1095	1279	1351	3085	916
	1%	1%	1%	2%	1%
grade 4 events	1089	1274	1329	3212	903
	1%	1%	1%	2%	1%
grade 5 events	3612	3846	3291	4142	3808
	4%	4%	3%	2%	5%
grade 6 events	1858	2357	2102	3629	2052
	2%	2%	2%	2%	2%
grade 7 events	53814	54763	59425	59067	57860
	73%	68%	67%	39%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	207.228036	207.1972917264505	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.604559	26.60322340940284	Alternating exposures requested	N	N
[deg] Pointing Roll	152.352055	152.5745109105135	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	512697667.184000	512697667.184000			
[s] Window stop time (MET)	515203267.184000	515203267.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-230.252463	-230.248423740357			
[mm] SIM translation stage offset	-3.34	-3.34402926257269			
[s] Observation start time (MET)	512855987.184000	512854484.29312			
Observation start date	2014-04-02T19:58:40	2014-04-02T19:34:44			
[s] Observation end time (MET)	512870987.184000	512871121.06903			
Observation end date	2014-04-03T00:08:40	2014-04-03T00:12:01			
Read mode	TIMED	TIMED			

2.3 Aspect



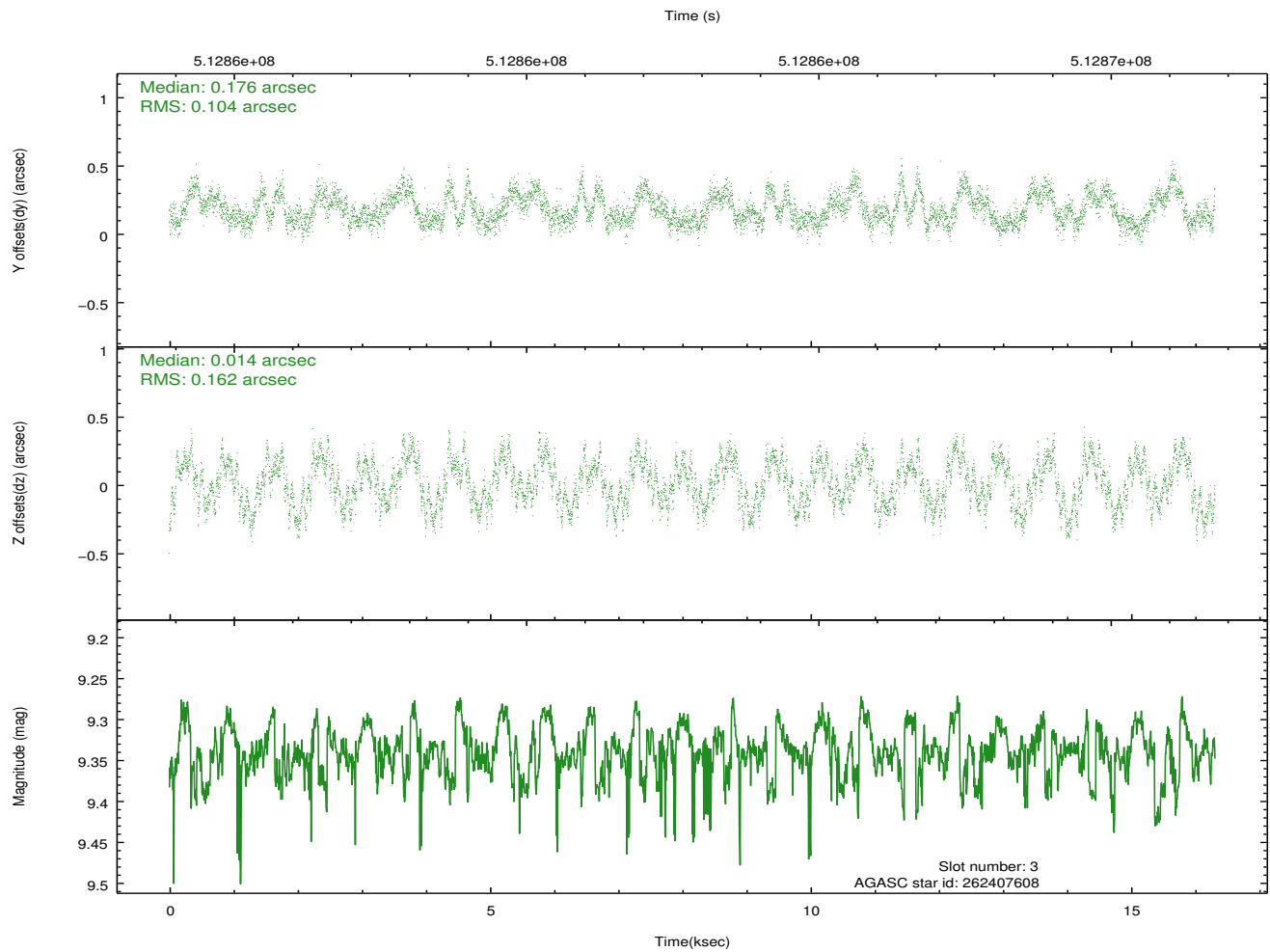
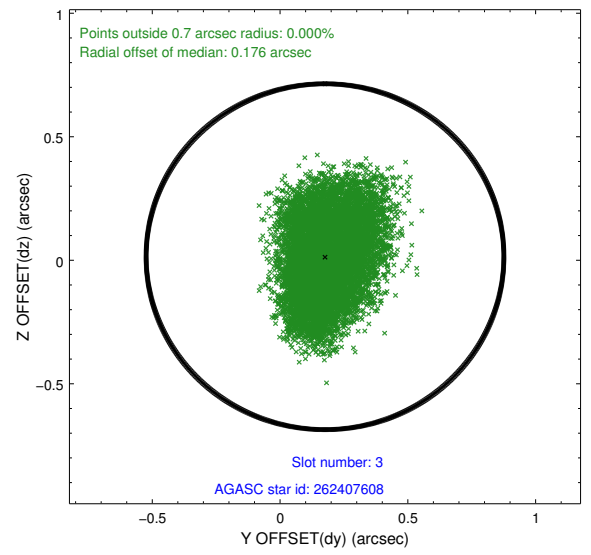
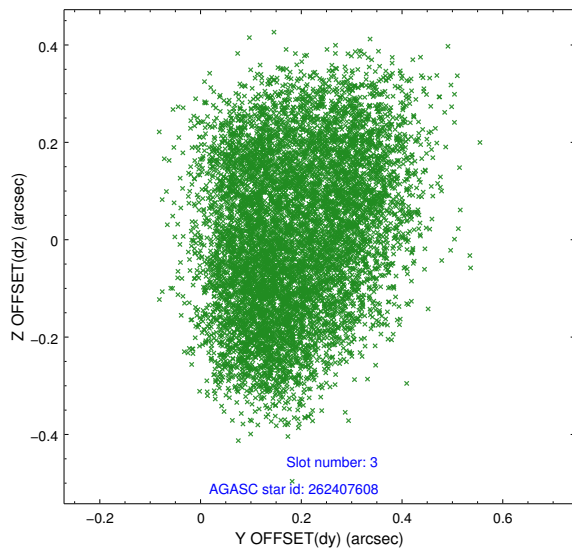


Slot Statistics

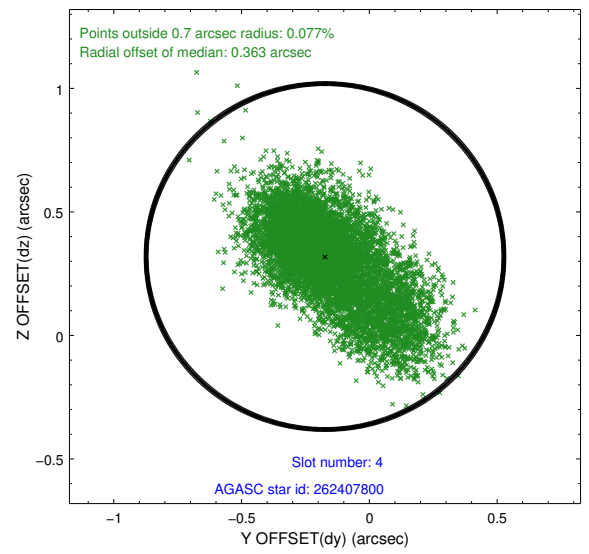
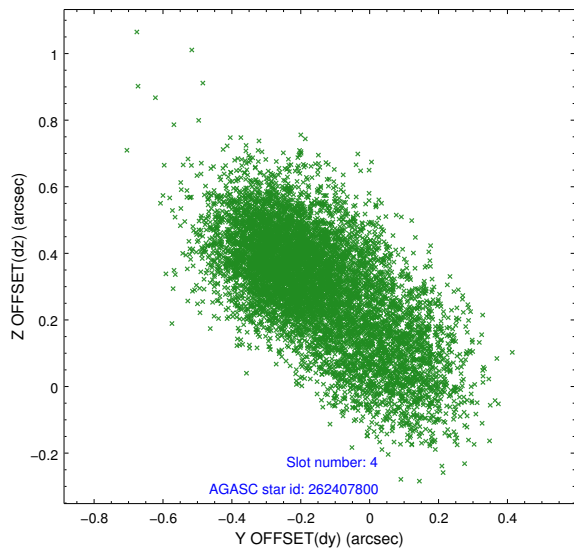
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.10	3979	0.066	-0.013	0.007	0.013	0.000000	0.000000	914.30	-912.32
1	FID		ACIS-I-5	7.09	3976	-0.291	0.051	0.006	0.011	0.000000	0.000000	-1834.14	984.92
2	FID		ACIS-I-6	7.11	3979	0.134	0.033	0.008	0.014	0.000000	0.000000	379.46	1629.84
3	GUIDE	used	262407608	9.34	7946	0.176	0.014	0.212	0.317	207.378401	26.435507	-711.44	314.08
4	GUIDE	used	262407800	10.07	7799	-0.174	0.319	0.247	0.449	207.321181	27.251762	819.43	-2200.16
5	GUIDE	used	262408096	9.31	7947	-0.130	-0.172	0.229	0.314	207.011678	26.515421	469.46	607.00
6	GUIDE	used	262408936	9.63	7951	-0.032	0.102	0.169	0.267	207.154731	26.726554	412.60	-279.25
7	GUIDE	used	262411960	9.66	7951	0.120	-0.245	0.166	0.270	207.327895	25.881727	-1493.76	2154.73

2.4 Star Slots

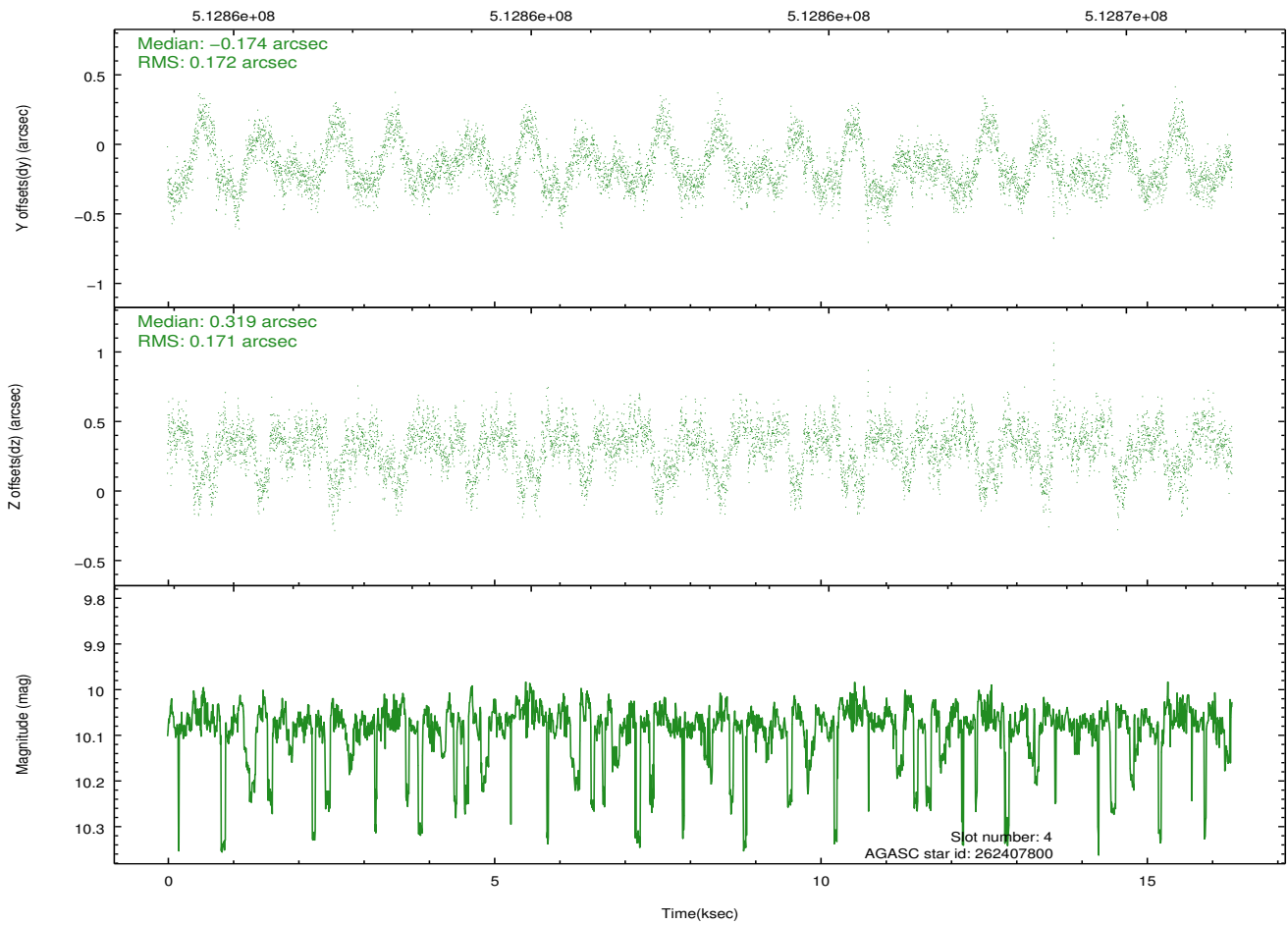
2.4.1 Slot 3



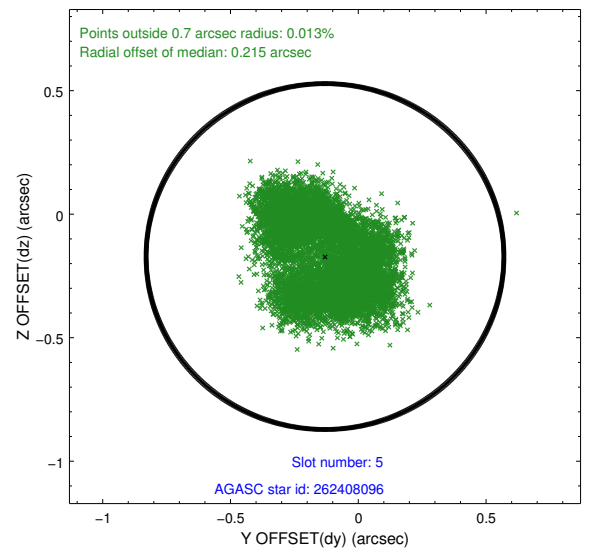
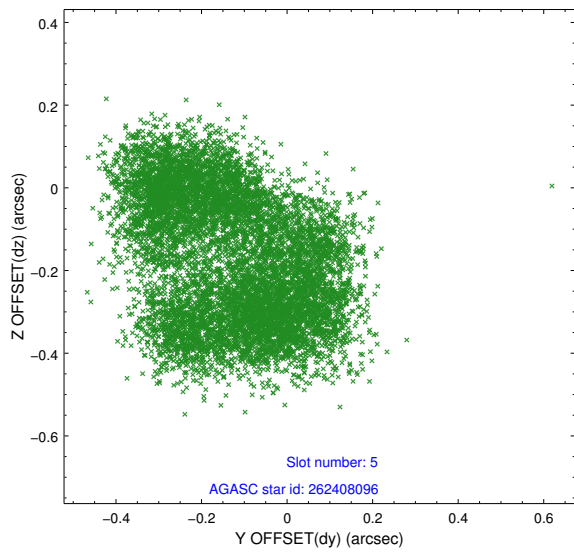
2.4.2 Slot 4



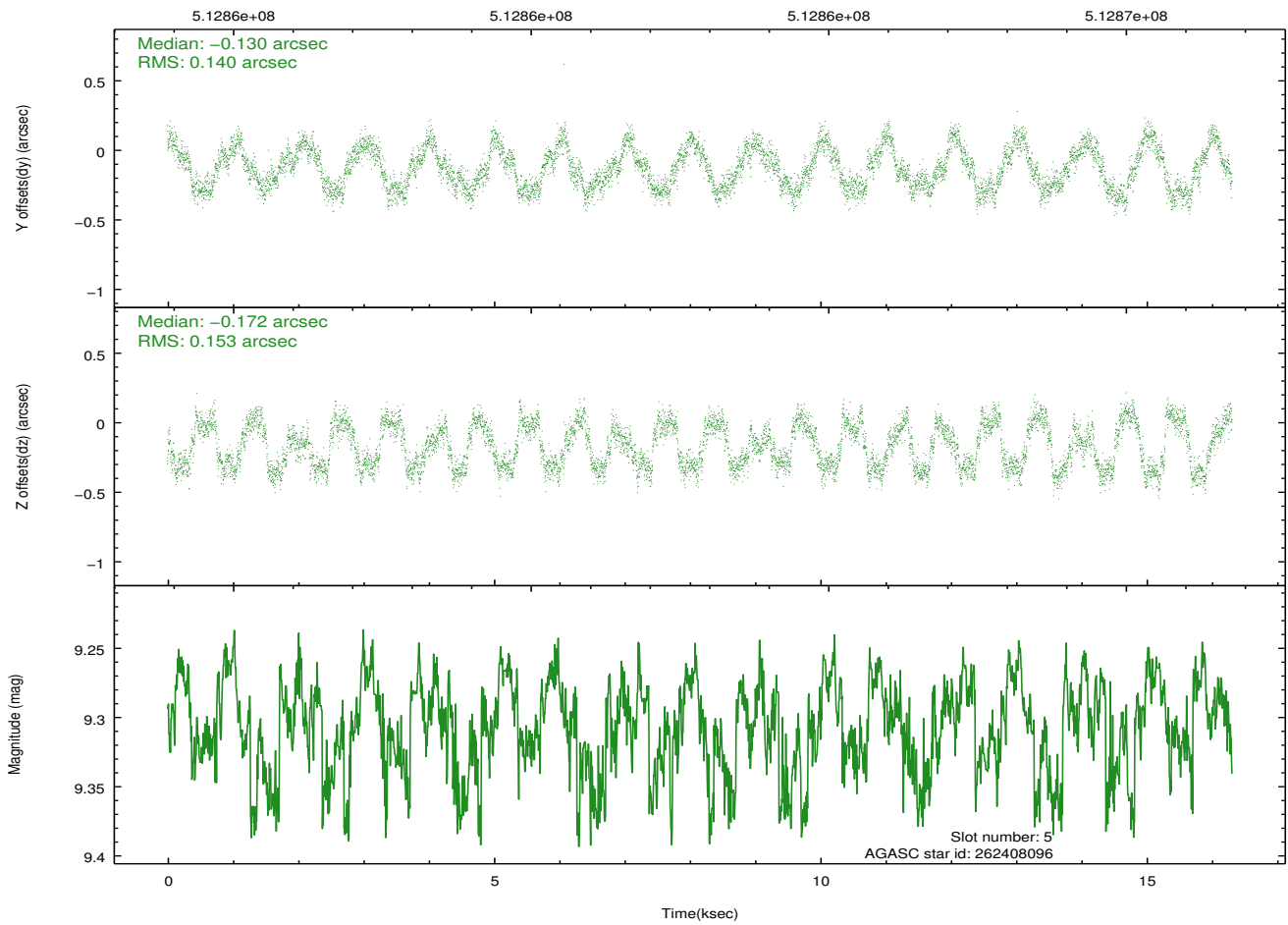
Time (s)



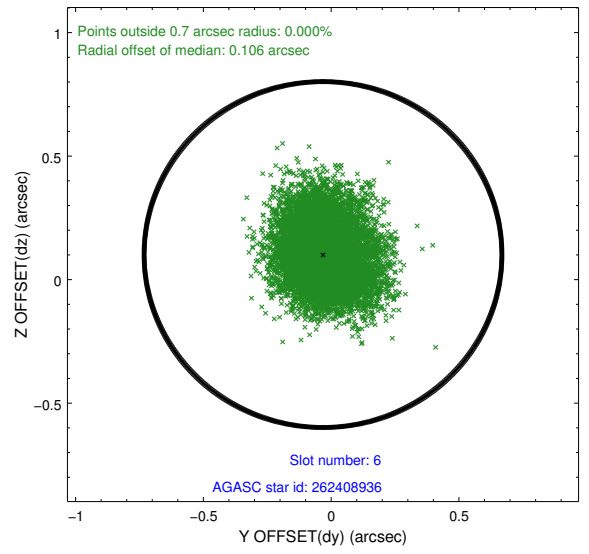
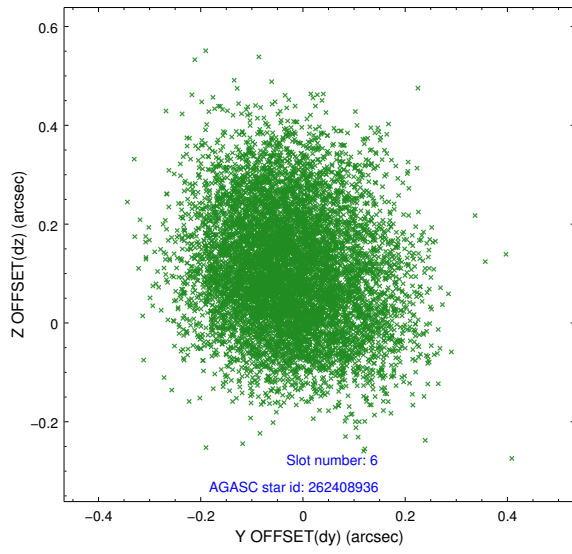
2.4.3 Slot 5



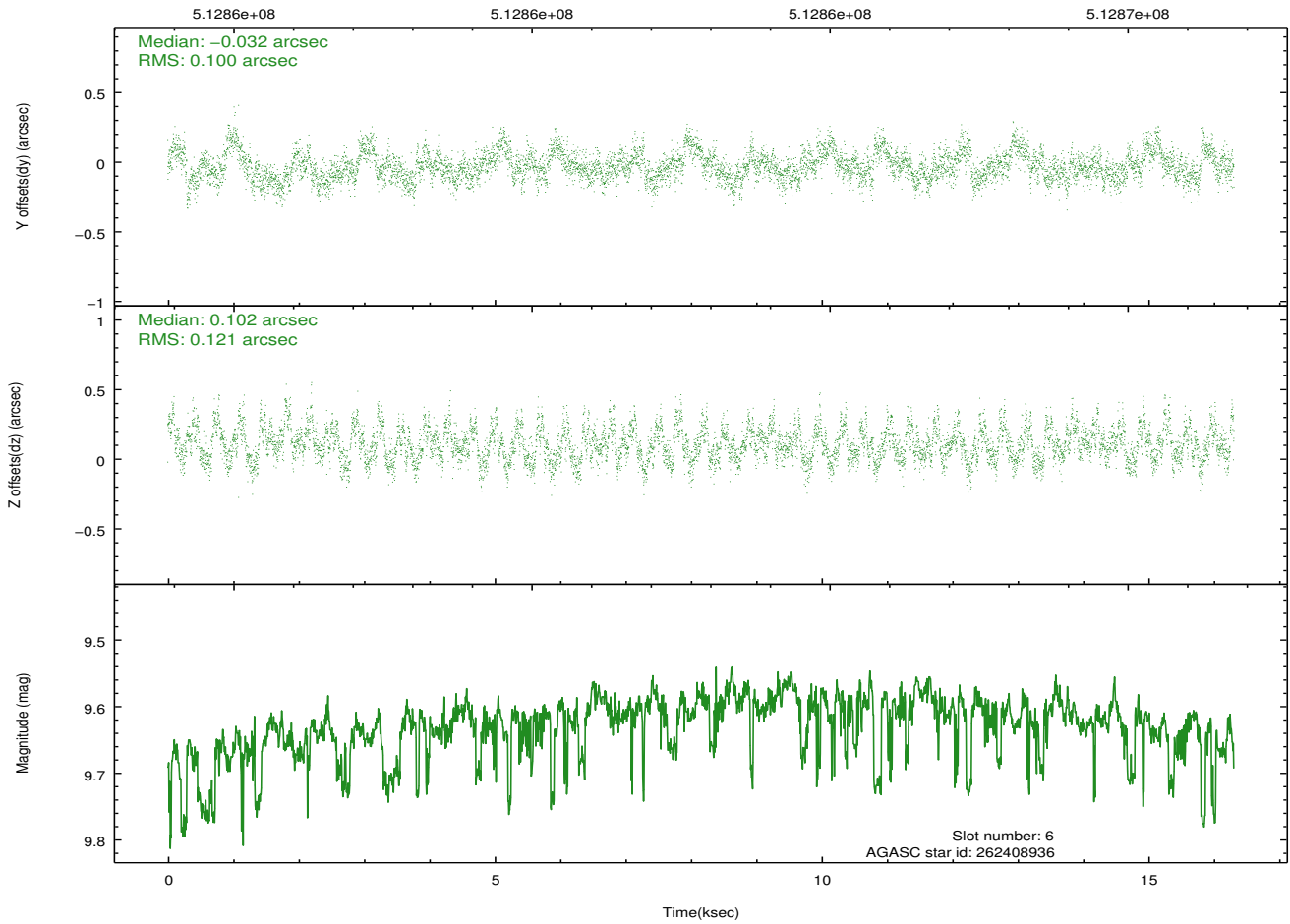
Time (s)



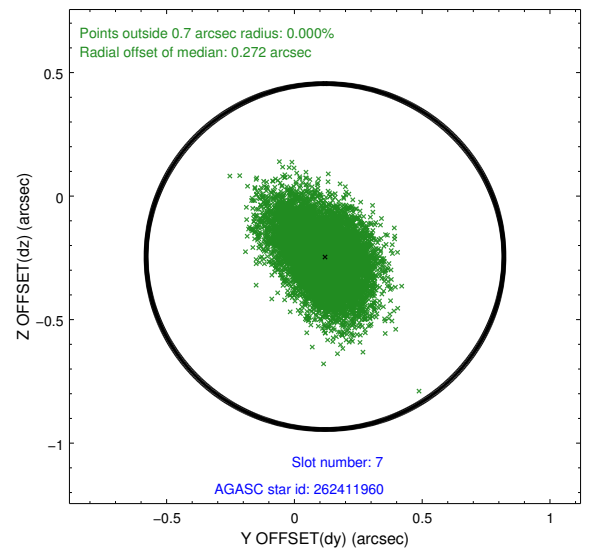
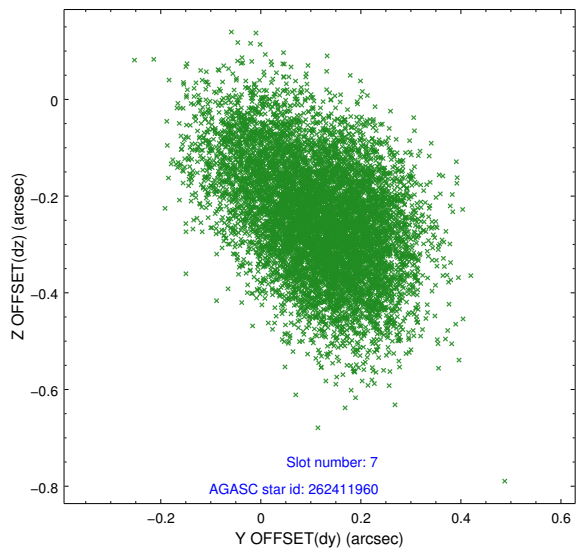
2.4.4 Slot 6



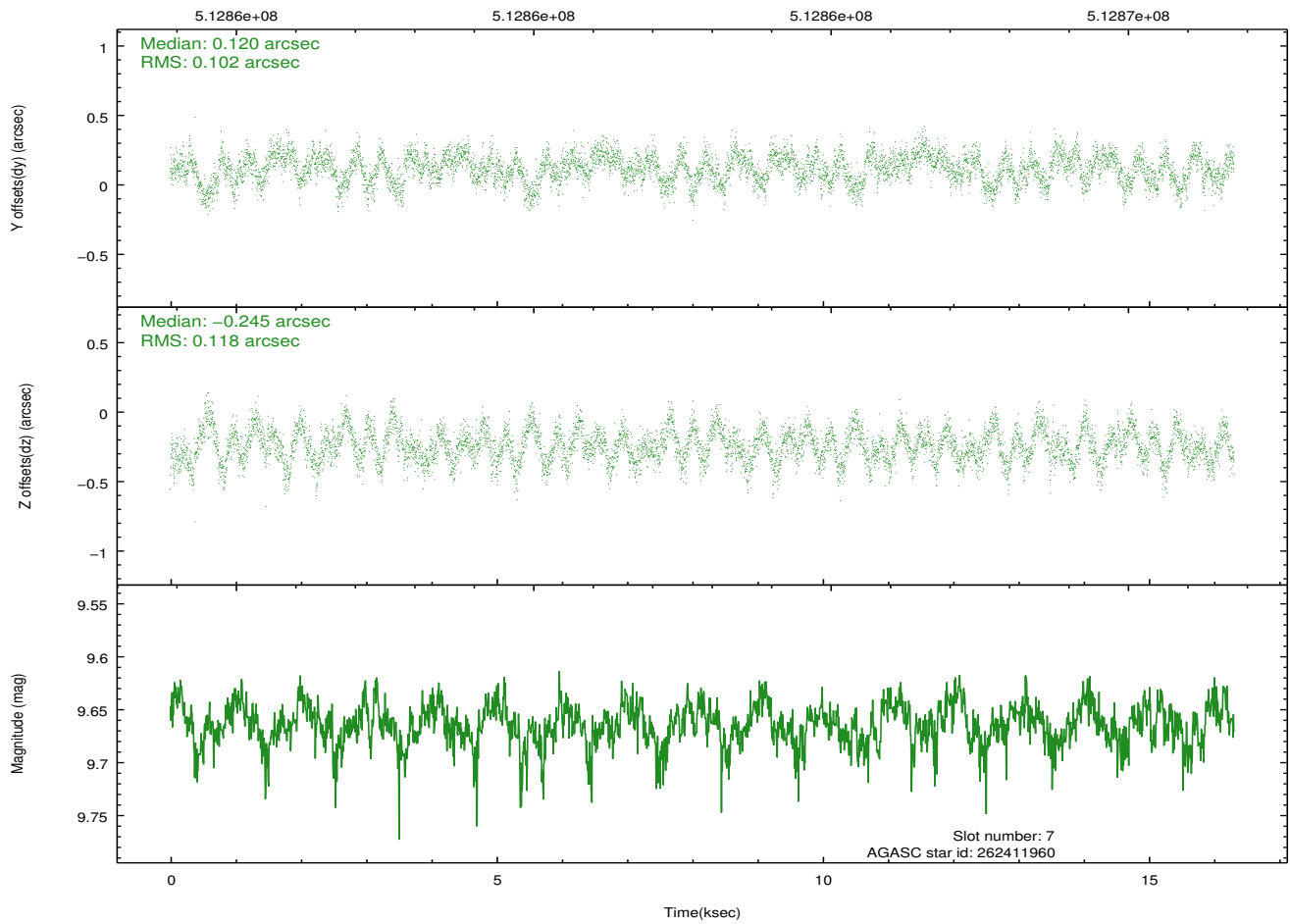
Time (s)



2.4.5 Slot 7

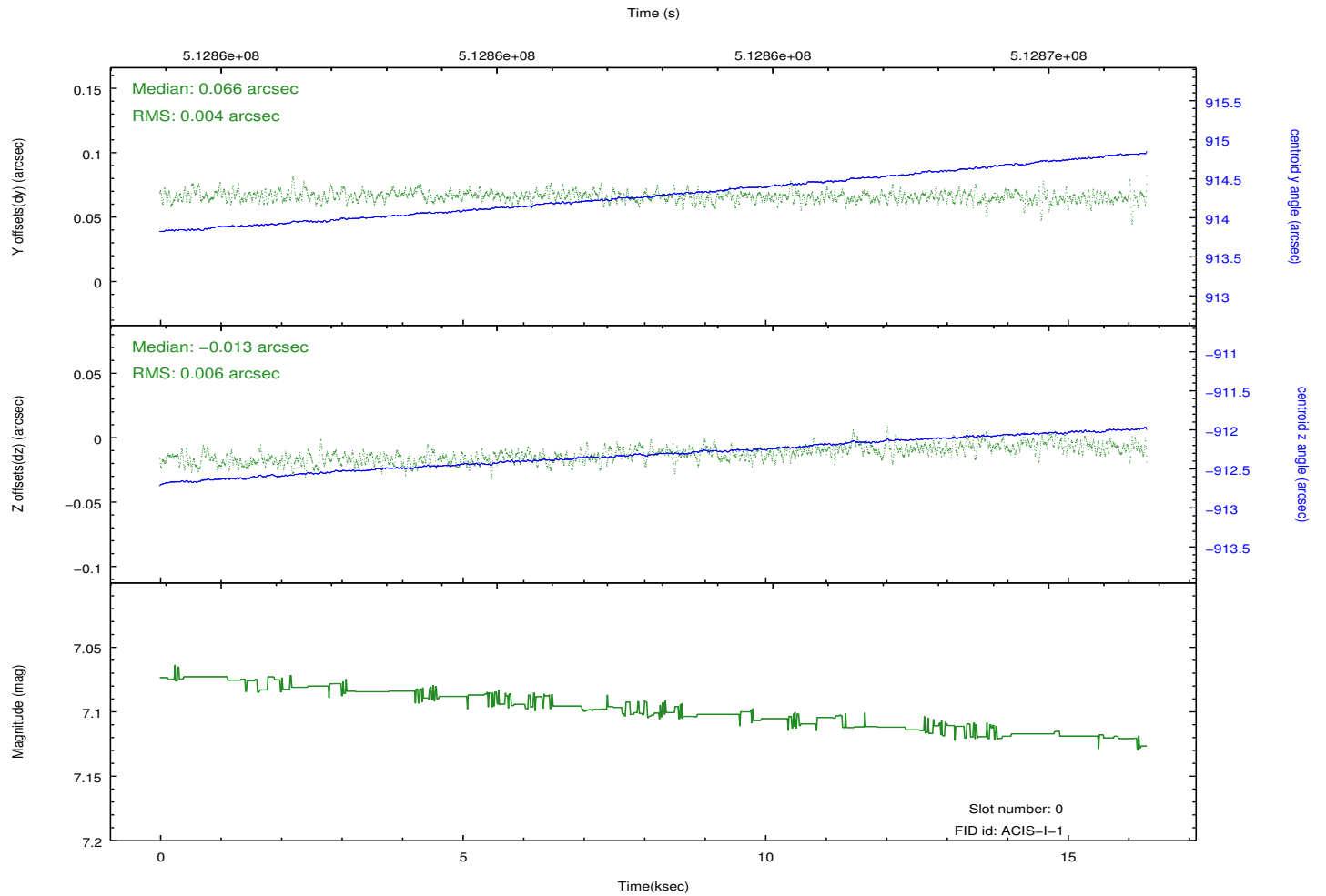
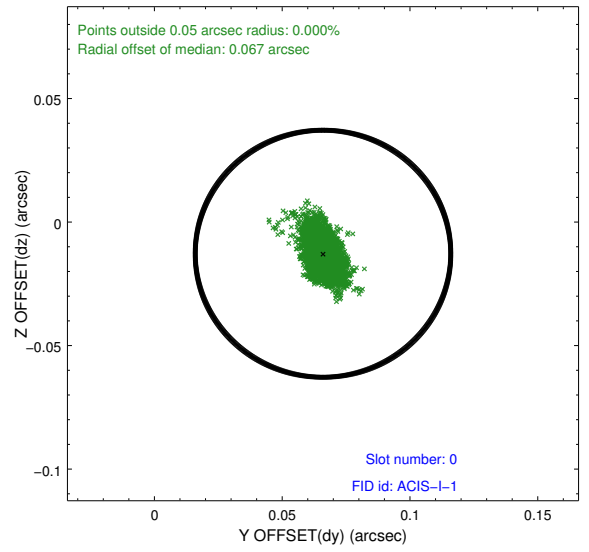
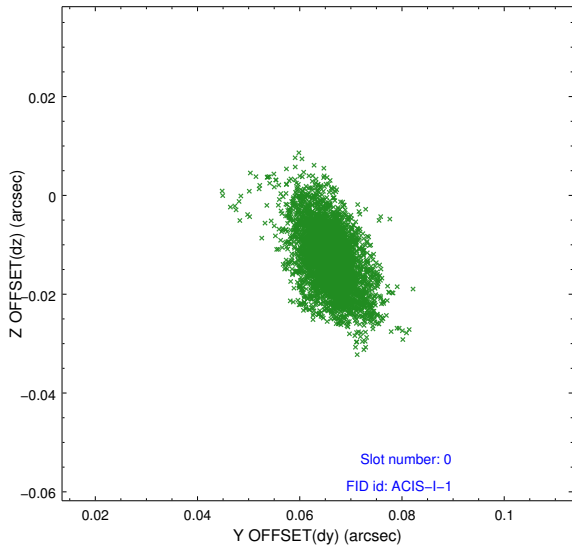


Time (s)

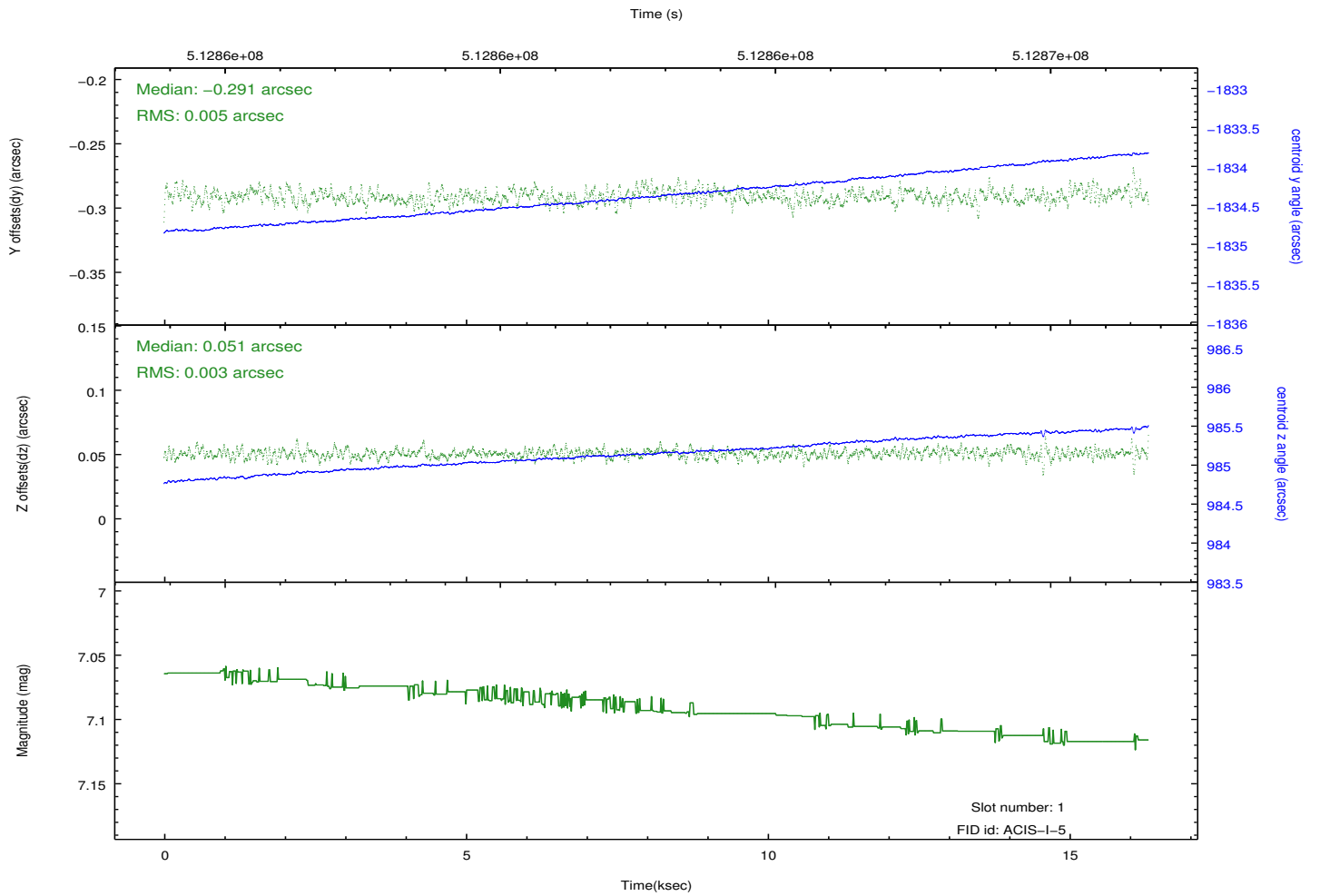
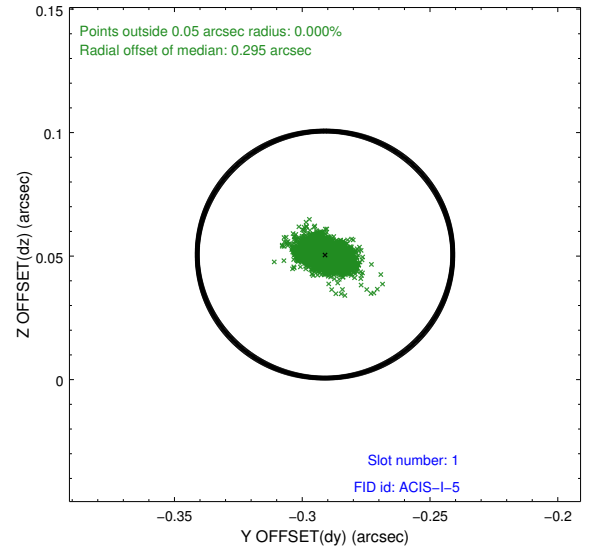
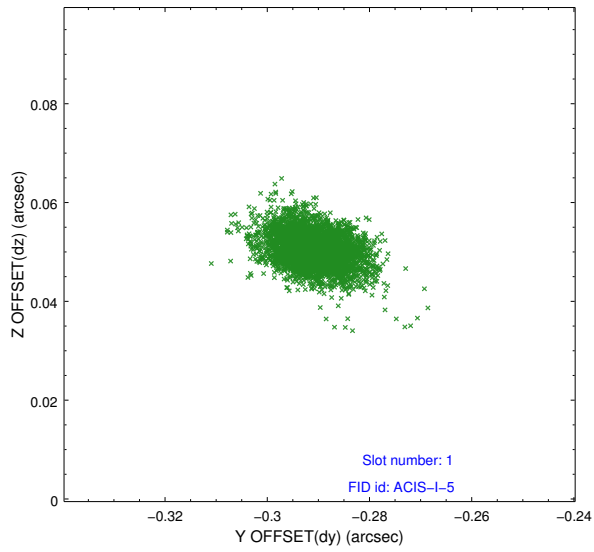


2.5 FID Slots

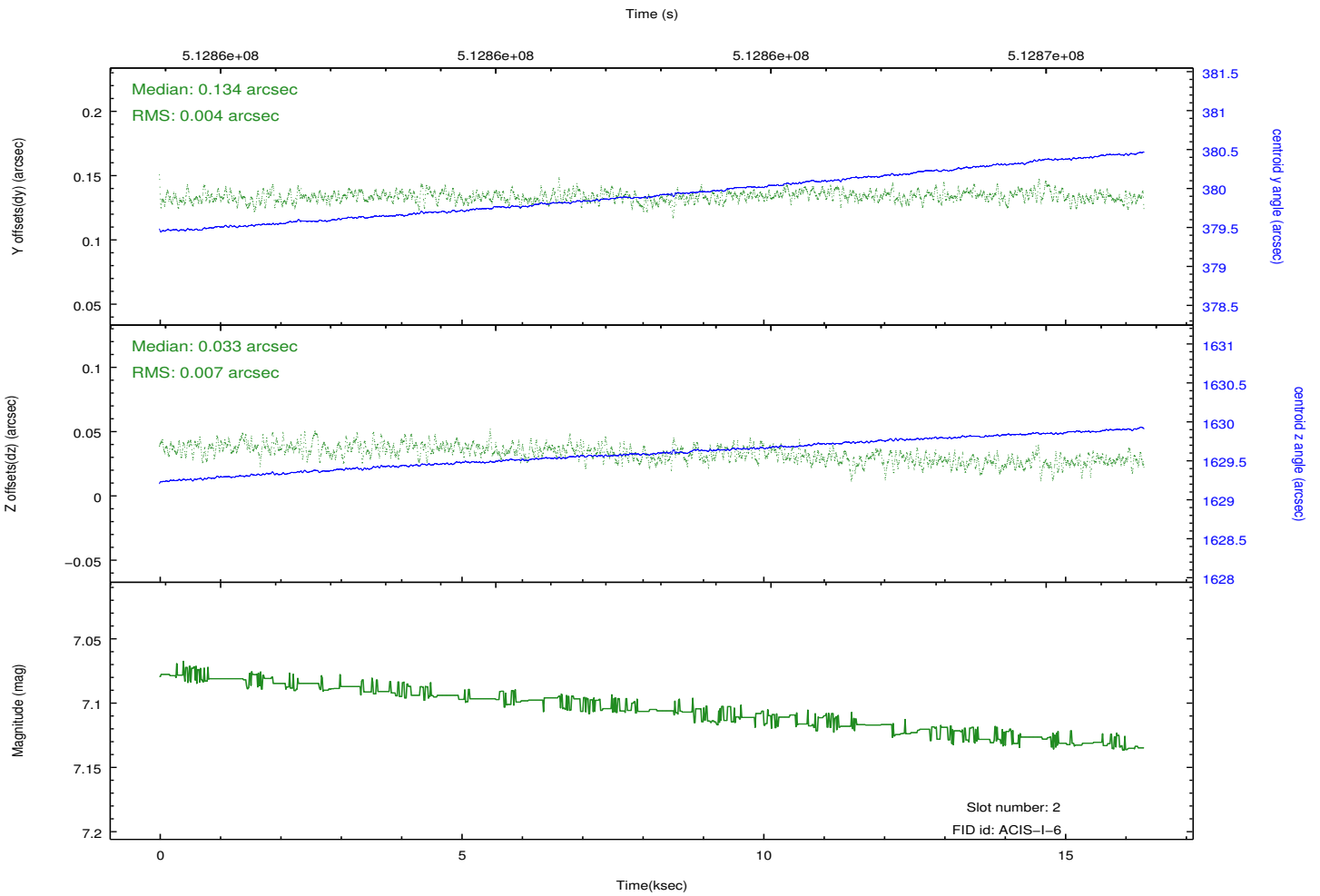
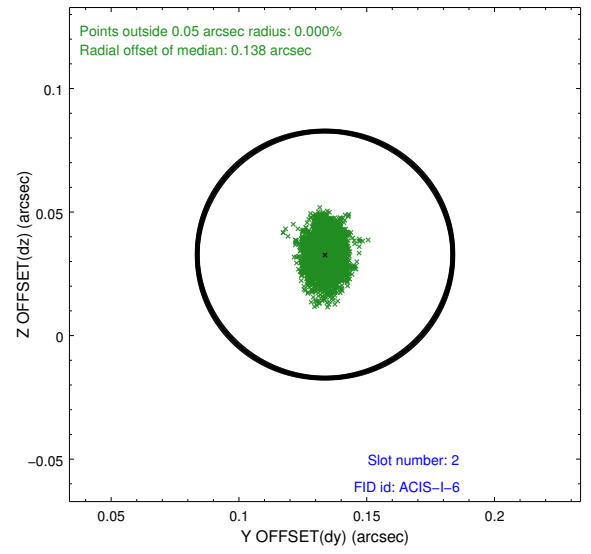
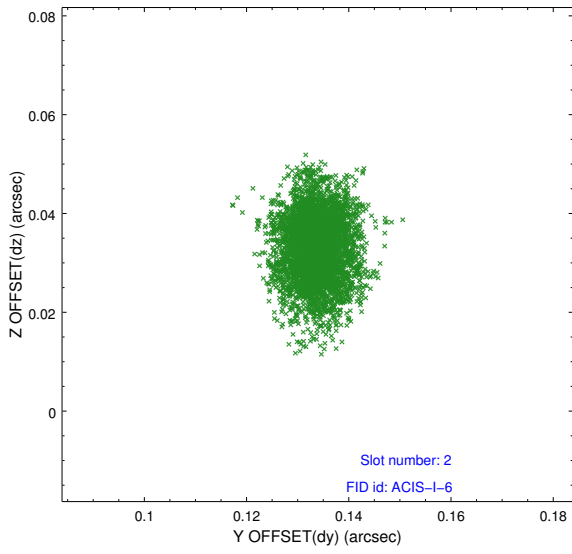
2.5.1 Slot 0



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)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.08396927321

A.2 Comments

Window preference met.

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.