

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16646 - L2 Version 1
Chandra X-Ray Center

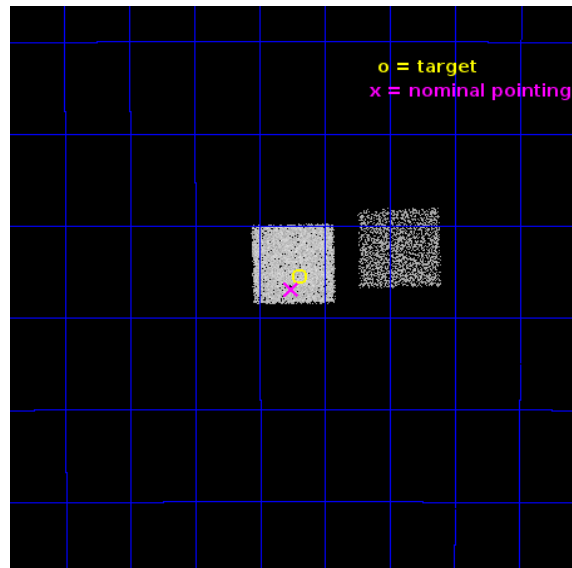
L2 Processing Date : Oct 20 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

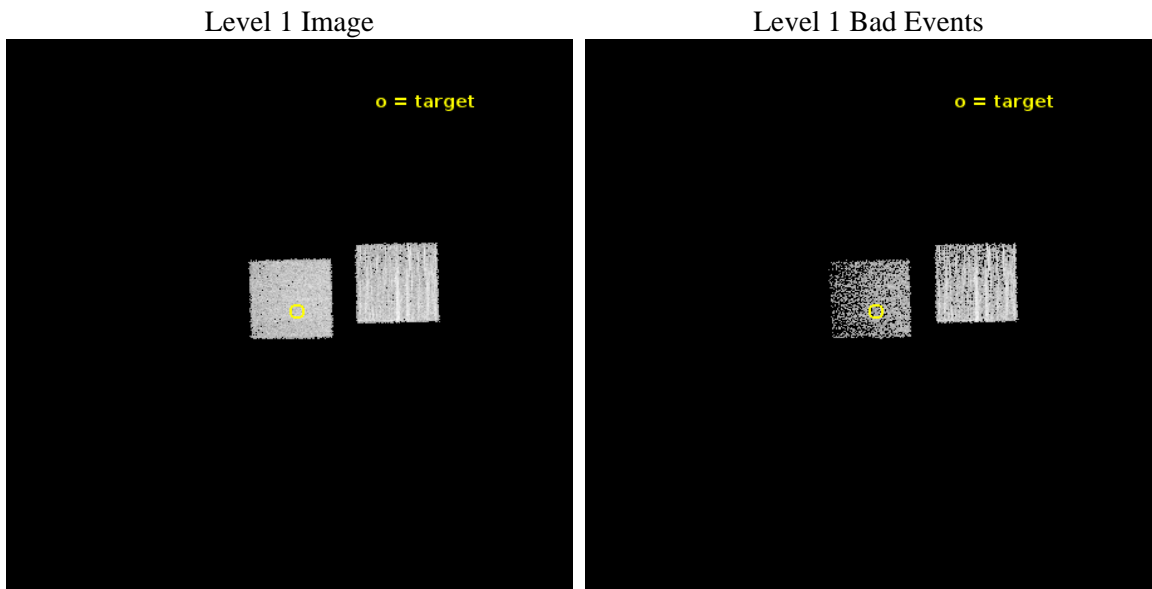
seq_num	100152	Sequence number
obs_id	16646	Observation id
title	Chandra Observations of Comet C/2013 A1 (Siding Spring)'s Encounter With Mars	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	Comet C/2013 A1 Siding Spring	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.4245	Observer's specified target RA [deg]
dec_targ	-24.9248	Observer's specified target Dec [deg]
ra_nom	264.43958991471	Nominal RA [deg]
dec_nom	-24.948746588689	Nominal Dec [deg]
roll_nom	268.88130907544	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7316.2512423396	Sum of GTIs [s]
livetime	7217.5156285412	Livetime [s]
ontime3	7316.2102023363	Sum of GTIs [s]
ontime7	7316.2512423396	Sum of GTIs [s]
l2events	16194	Number of level 2 events



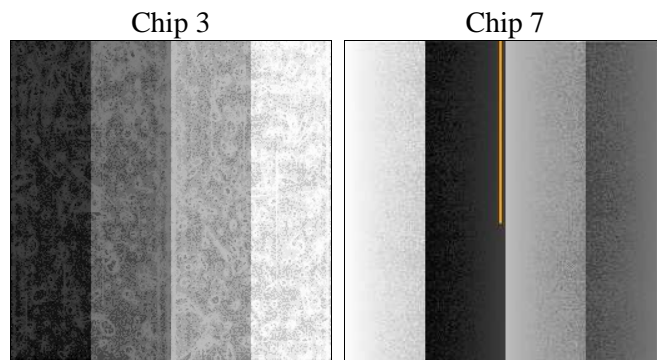
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	7200.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	7316.2512423396	Sum of GTIs [s]
caldbver	4.6.3	 	ontime3	7316.2102023363	Sum of GTIs [s]
date	2014-10-20T04:47:25	Date and time of file creation	ontime7	7316.2512423396	Sum of GTIs [s]
revision	1	Processing version of data	l1events	56486	Number of level 1 events

2.1.4 Events

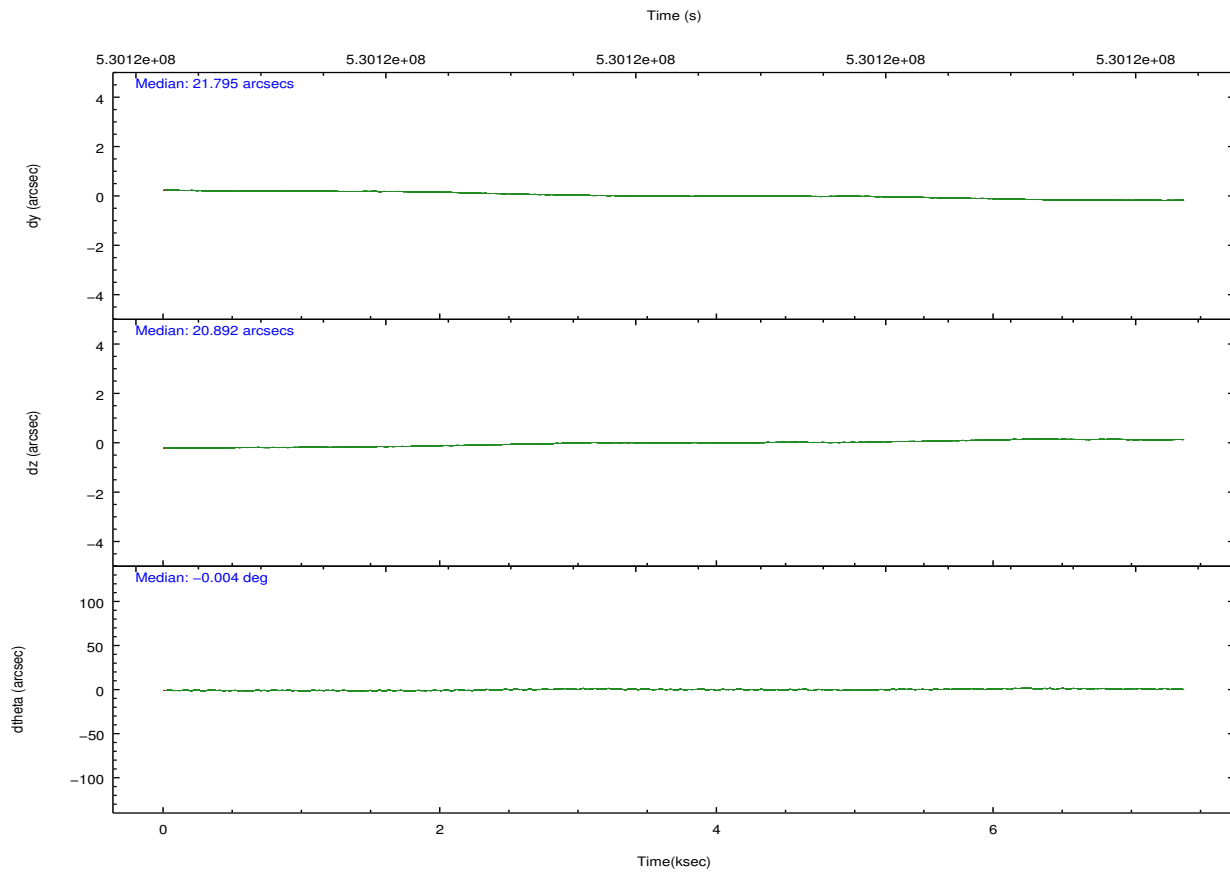
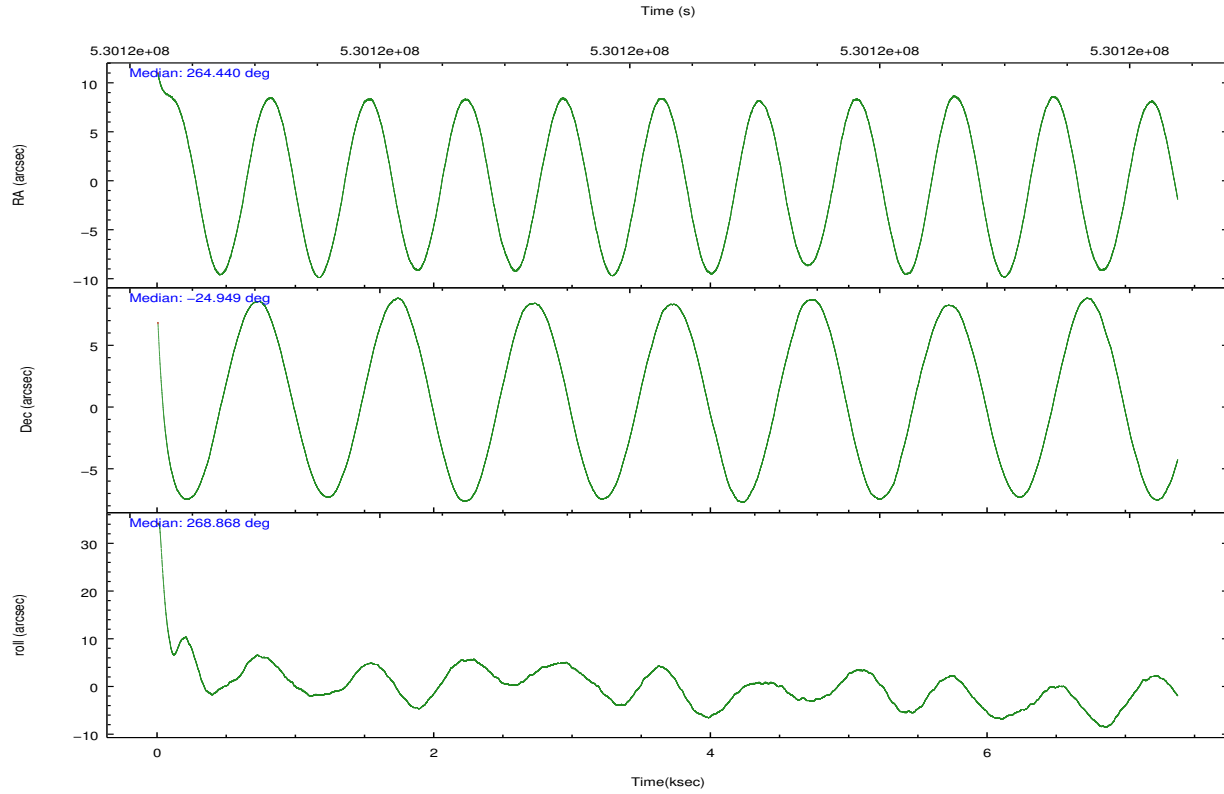
	ccd 3	ccd 7
level 1 events	32008	24478
rejected events	28731	10788
rejected %	89%	44%

	ccd 3	ccd 7
grade 0 events	1457	1832
	4%	7%
grade 1 events	14	54
	0%	0%
grade 2 events	667	3445
	2%	14%
grade 3 events	342	1346
	1%	5%
grade 4 events	328	1313
	1%	5%
grade 5 events	843	2595
	2%	10%
grade 6 events	536	6031
	1%	24%
grade 7 events	27821	7862
	86%	32%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-37	ACIS-37	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	264.424546	264.4395899147113	Subarray requested	NONE	NONE
[deg] Pointing Dec	-24.924816	-24.94874658868935	Alternating exposures requested	N	N
[deg] Pointing Roll	268.718305	268.8813090754433	[s] Primary exposure time	0.000000	3
[s] Window start time (MET)	530109067.184000	530109067.184000			
[s] Window stop time (MET)	530188267.184000	530188267.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	530116786.184000	530115771.22384			
Observation start date	2014-10-19T14:38:39	2014-10-19T14:22:51			
[s] Observation end time (MET)	530123986.184000	530124119.8493			
Observation end date	2014-10-19T16:38:39	2014-10-19T16:41:59			
Read mode	TIMED	TIMED			

2.3 Aspect

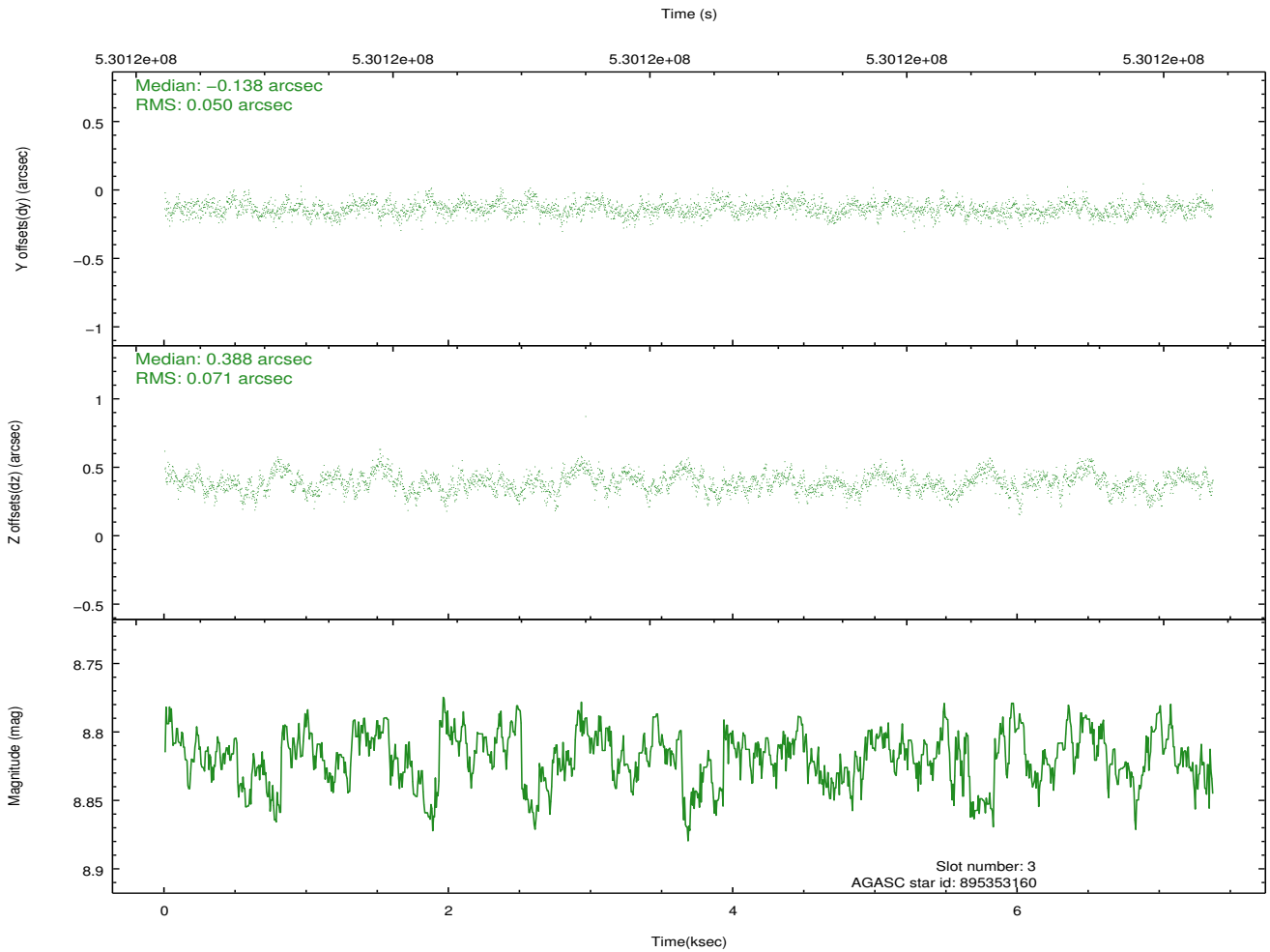
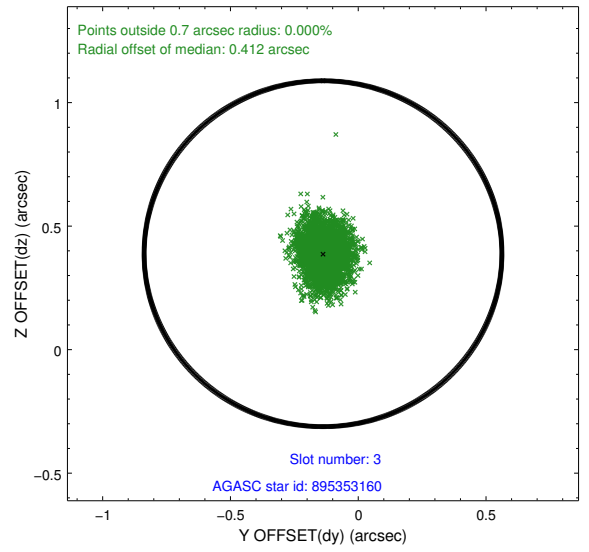
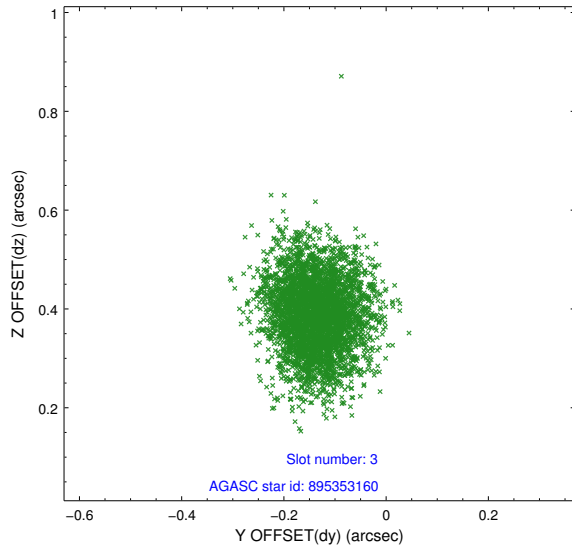


Slot Statistics

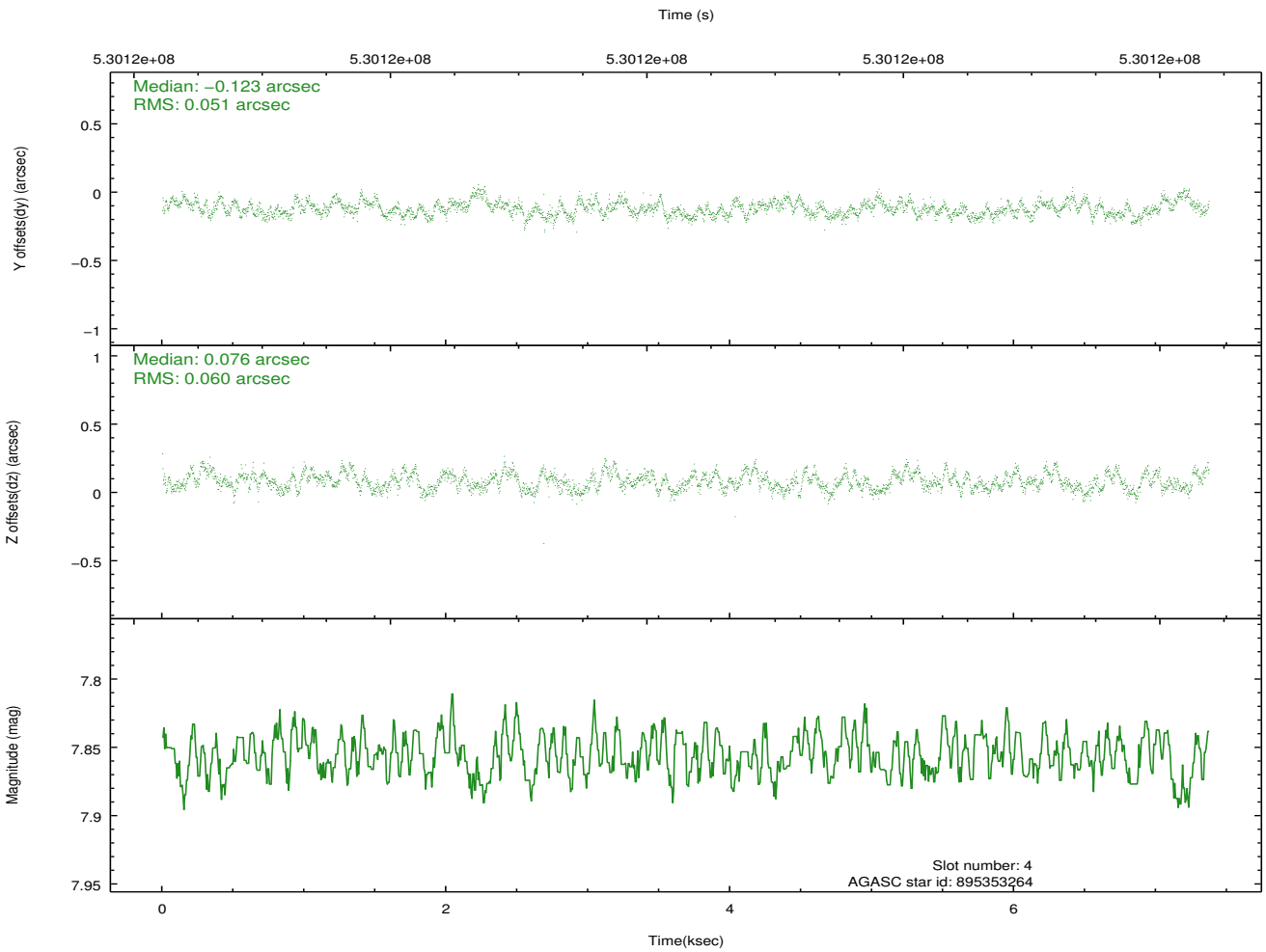
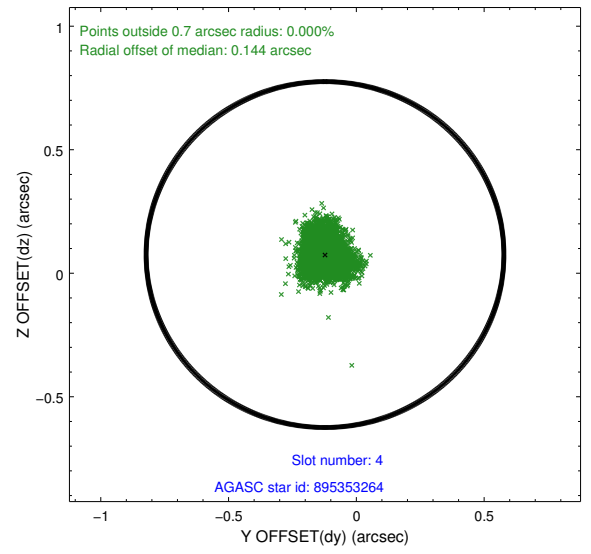
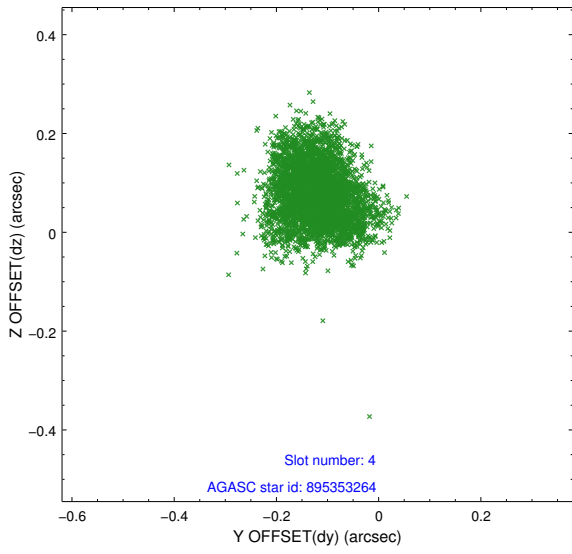
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.98	1799	-0.124	-0.009	0.009	0.015	0.000000	0.000000	-775.09	-1742.42
1	FID	ACIS-S-4	7.07	1799	0.254	0.062	0.007	0.014	0.000000	0.000000	2138.20	165.34
2	FID	ACIS-S-5	7.09	1798	-0.161	-0.044	0.010	0.016	0.000000	0.000000	-1826.99	159.77
3	GUIDE	895353160	8.82	3597	-0.138	0.388	0.092	0.152	264.317198	-24.593240	-1185.94	-376.91
4	GUIDE	895353264	7.86	3594	-0.123	0.076	0.085	0.132	263.891704	-24.628320	-1023.38	-1768.20
5	GUIDE	895353504	8.79	3593	-0.015	-0.362	0.082	0.132	264.451518	-24.713614	-762.20	70.36
6	GUIDE	895353520	8.74	3594	0.327	0.133	0.076	0.125	263.803092	-24.654210	-923.05	-2054.34
7	GUIDE	895354312	8.52	3596	-0.046	-0.239	0.119	0.176	264.478418	-24.965830	143.59	178.50

2.4 Star Slots

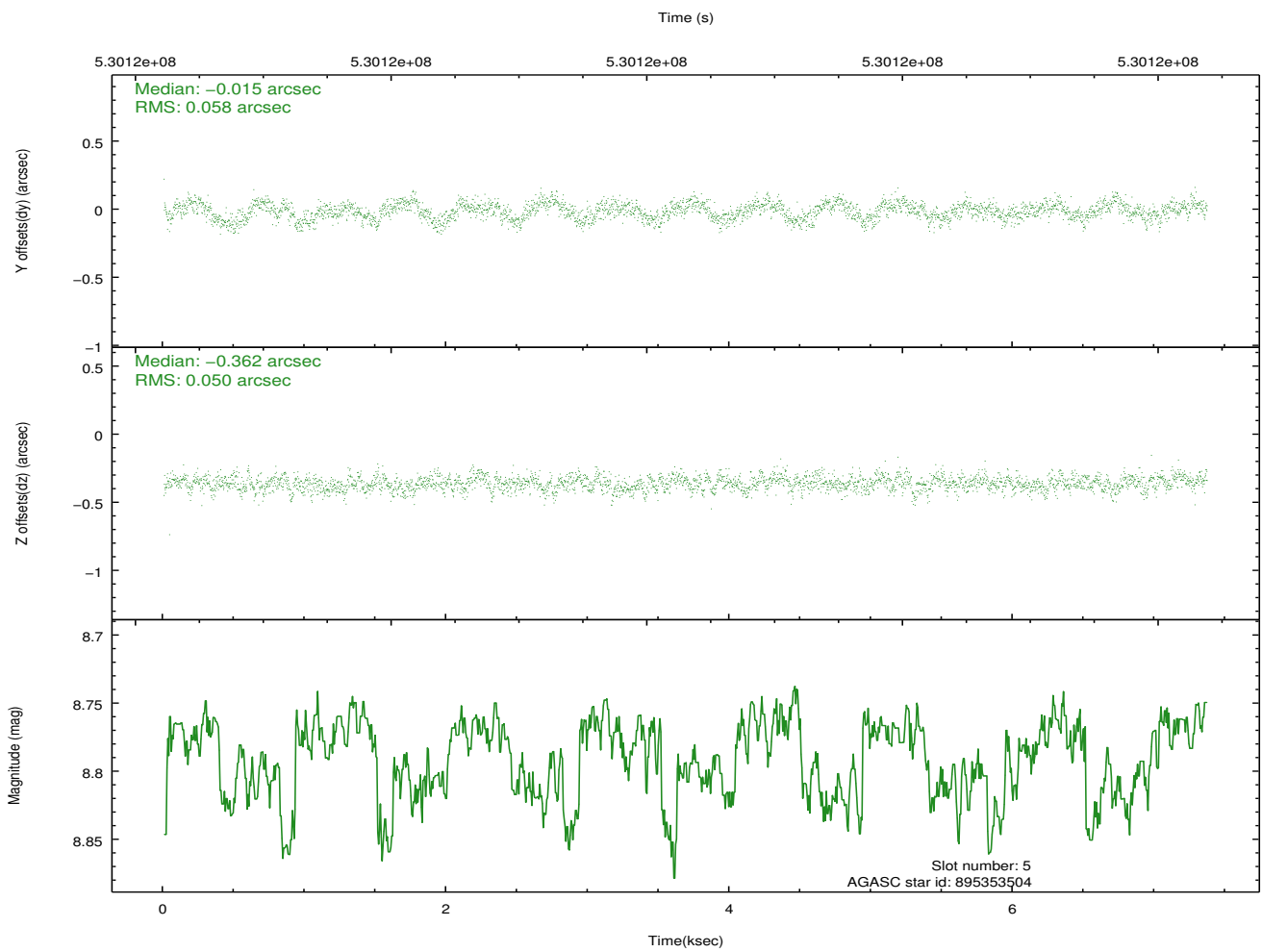
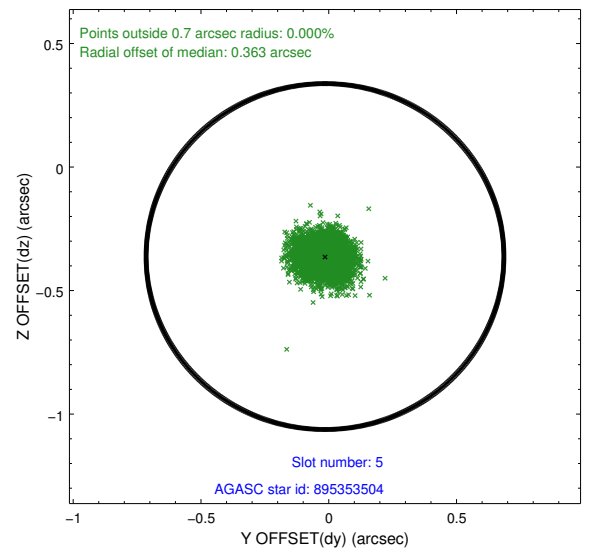
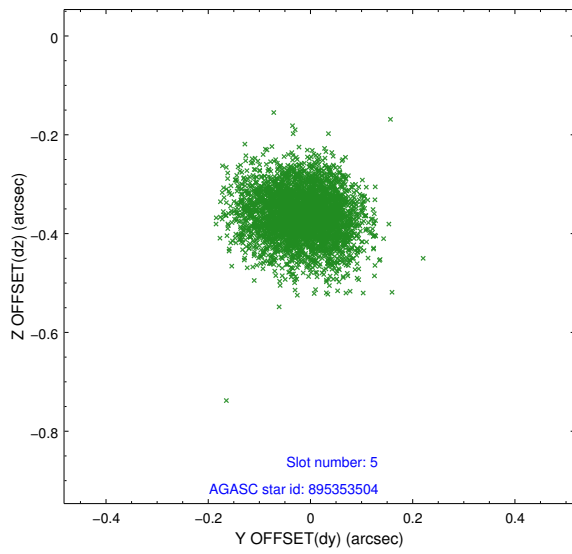
2.4.1 Slot 3



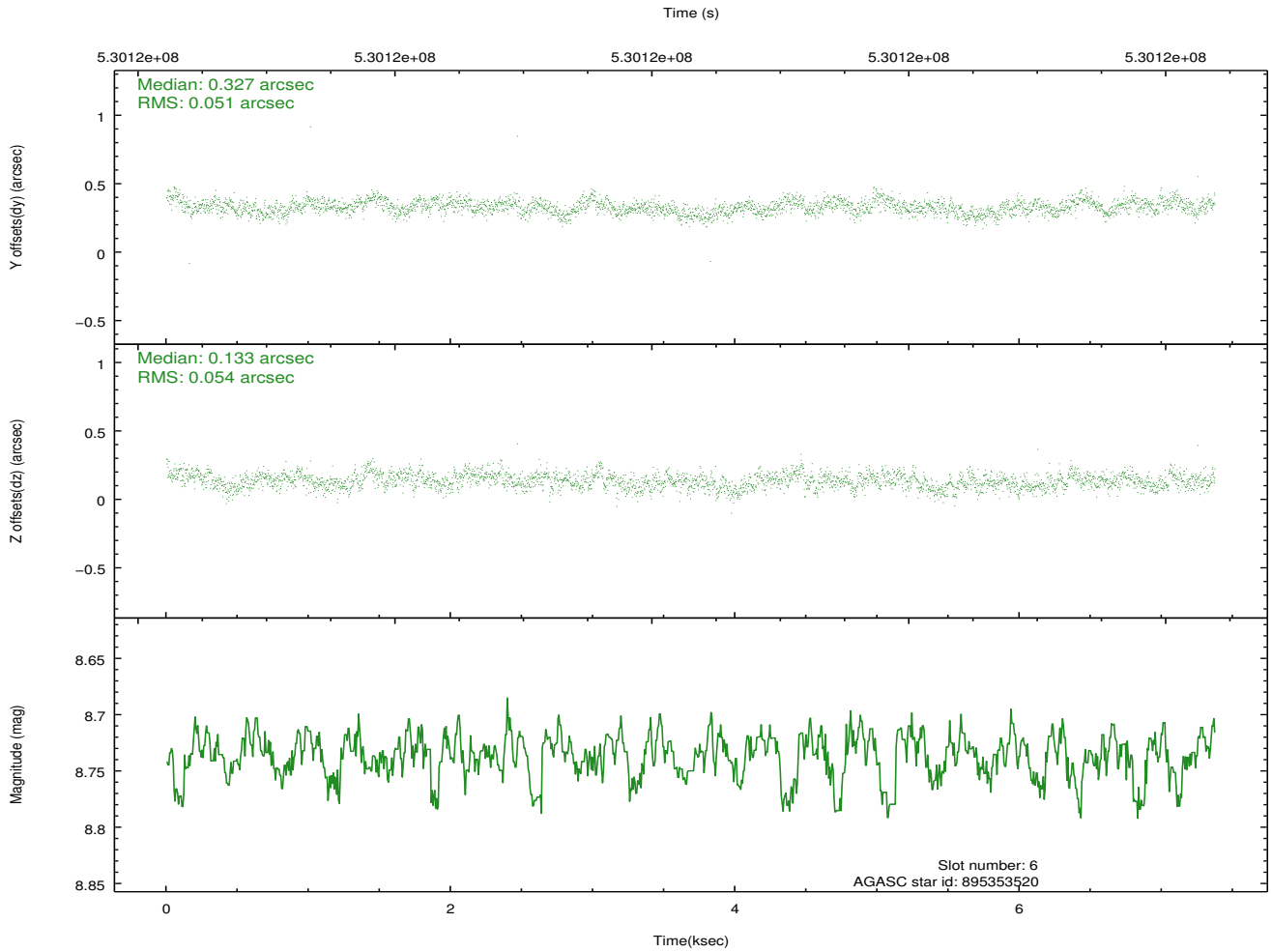
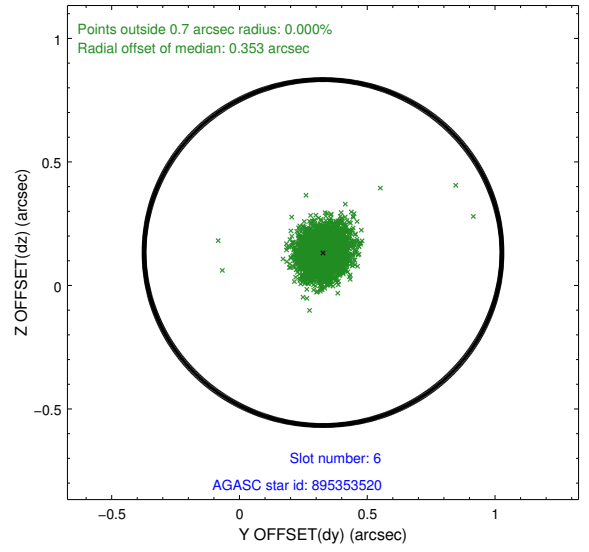
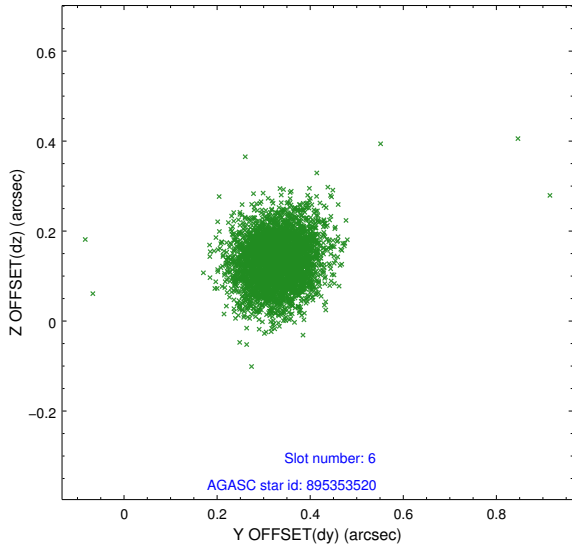
2.4.2 Slot 4



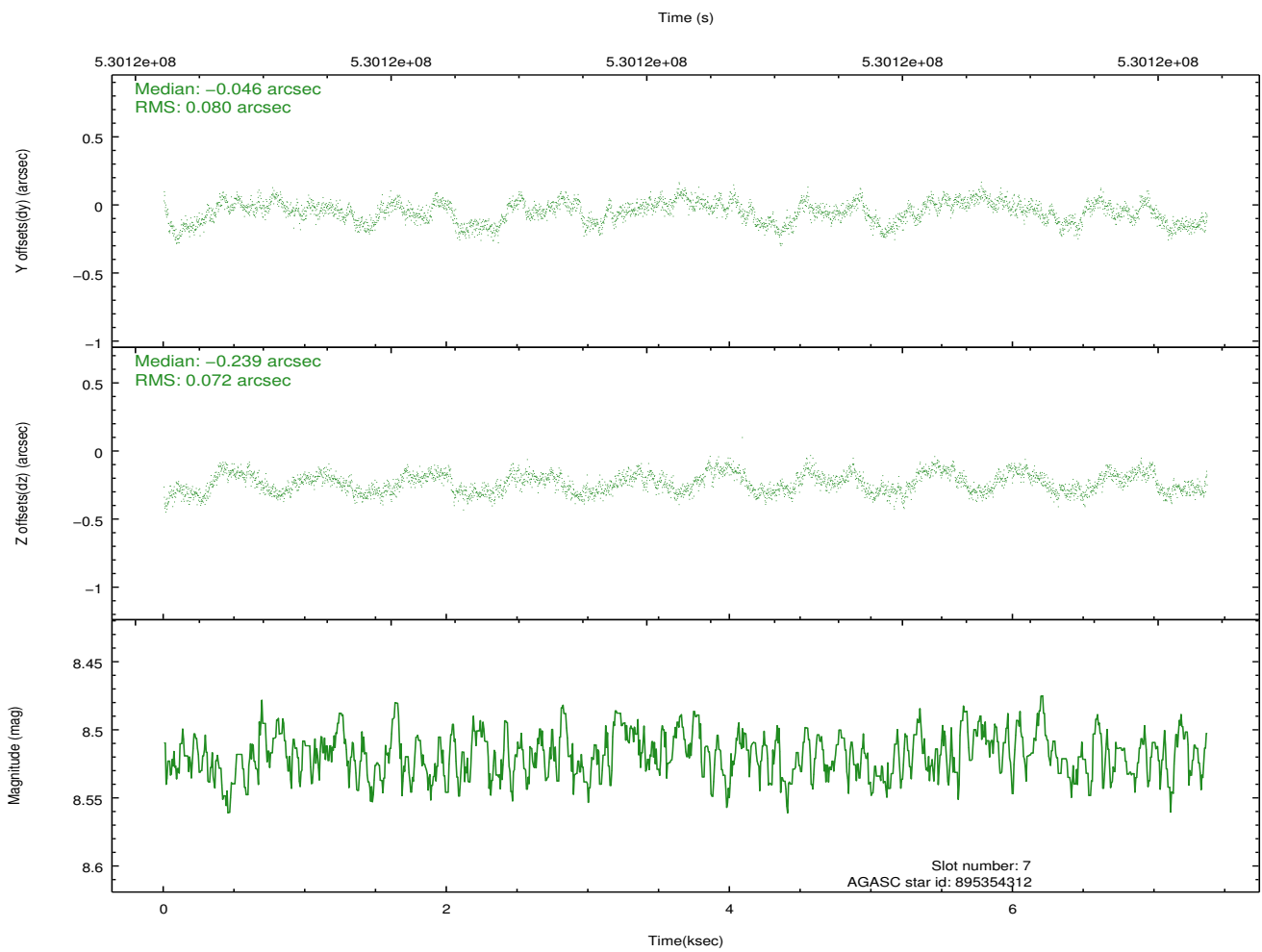
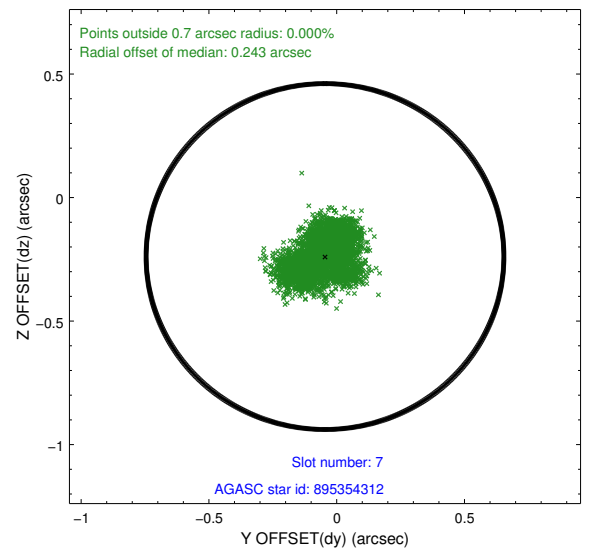
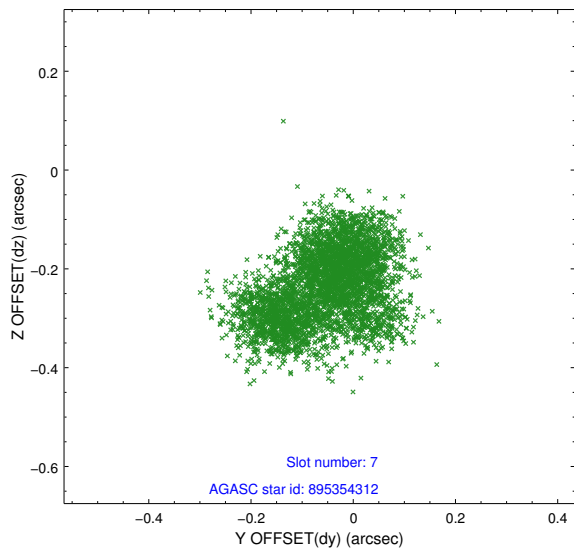
2.4.3 Slot 5



2.4.4 Slot 6

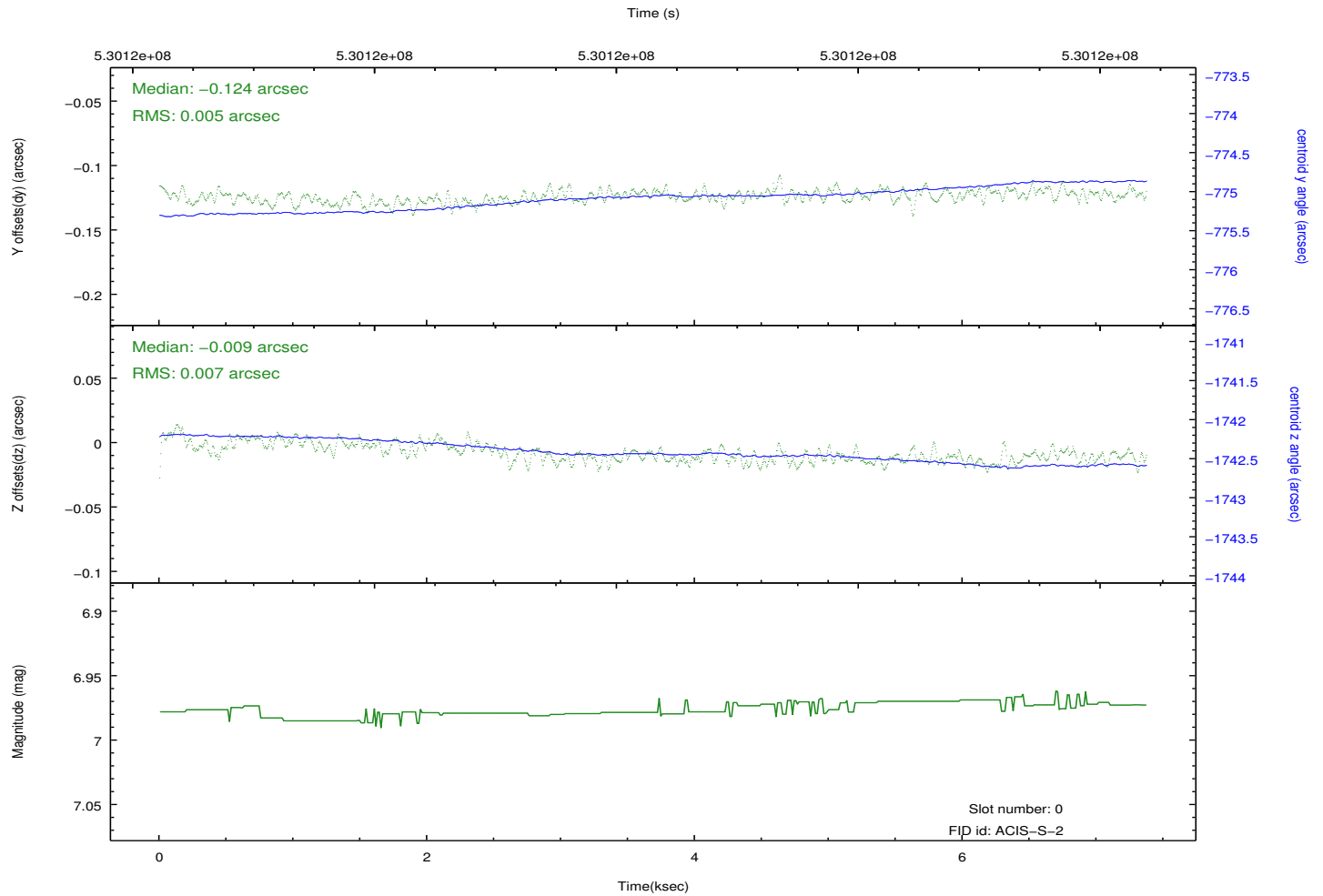
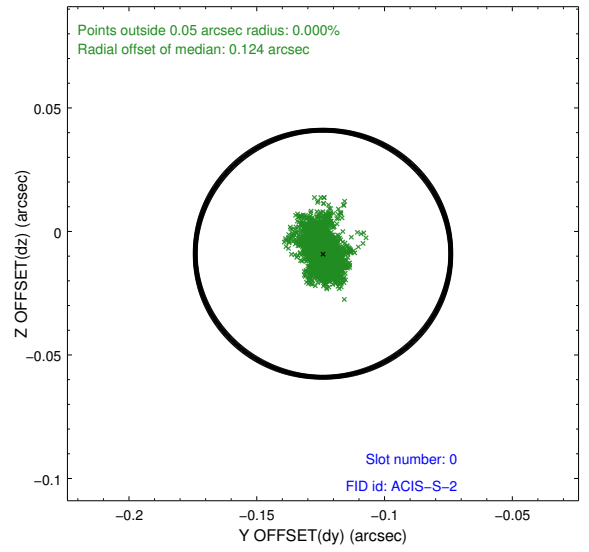
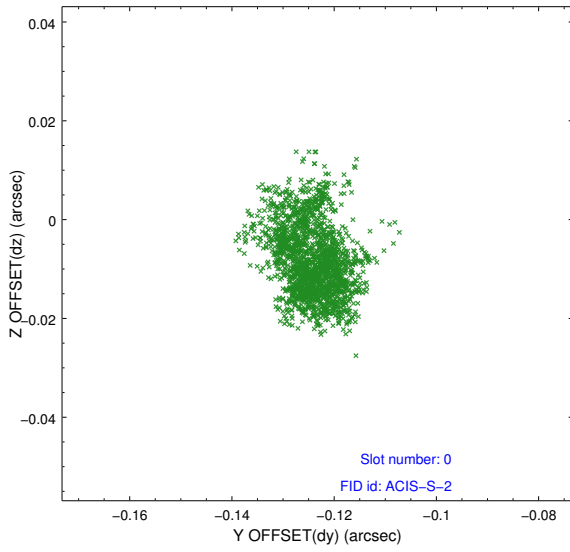


2.4.5 Slot 7

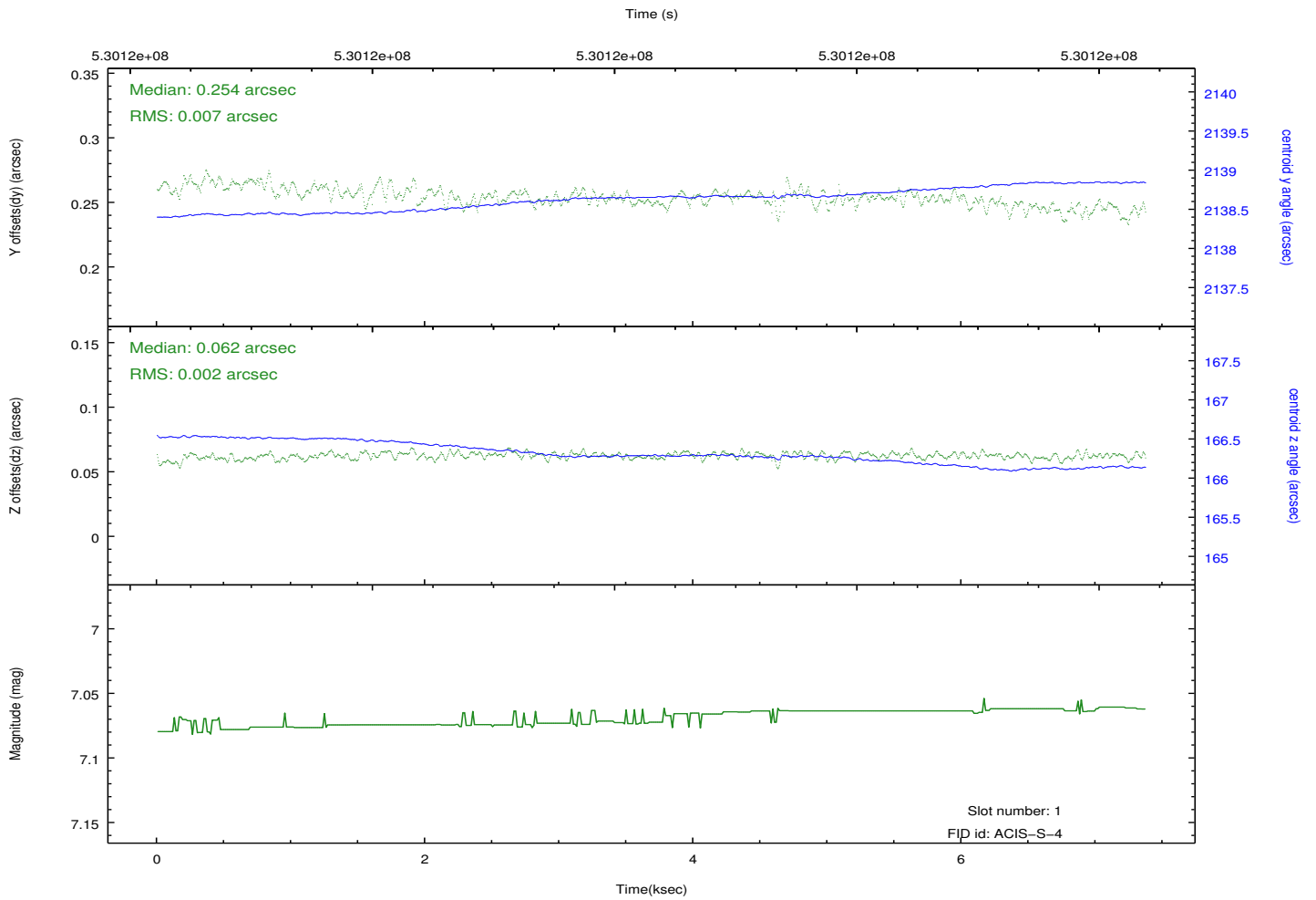
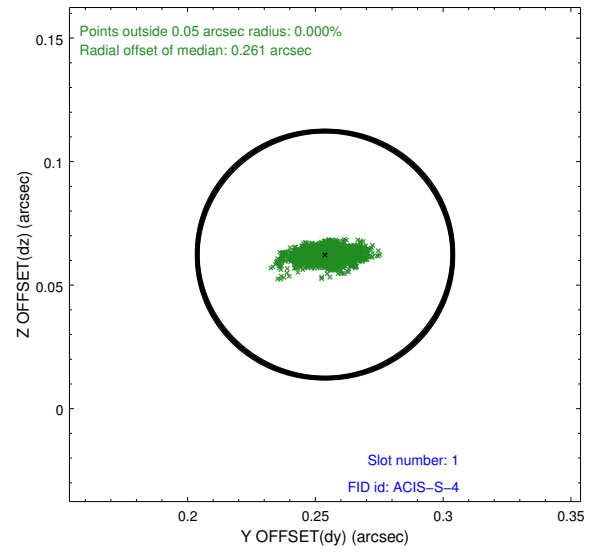
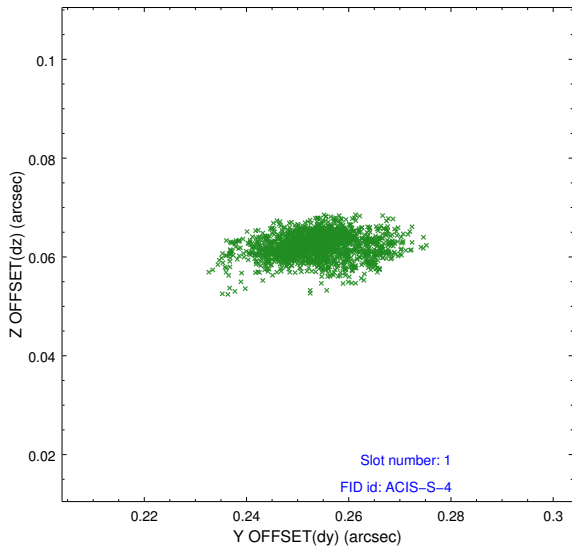


2.5 FID Slots

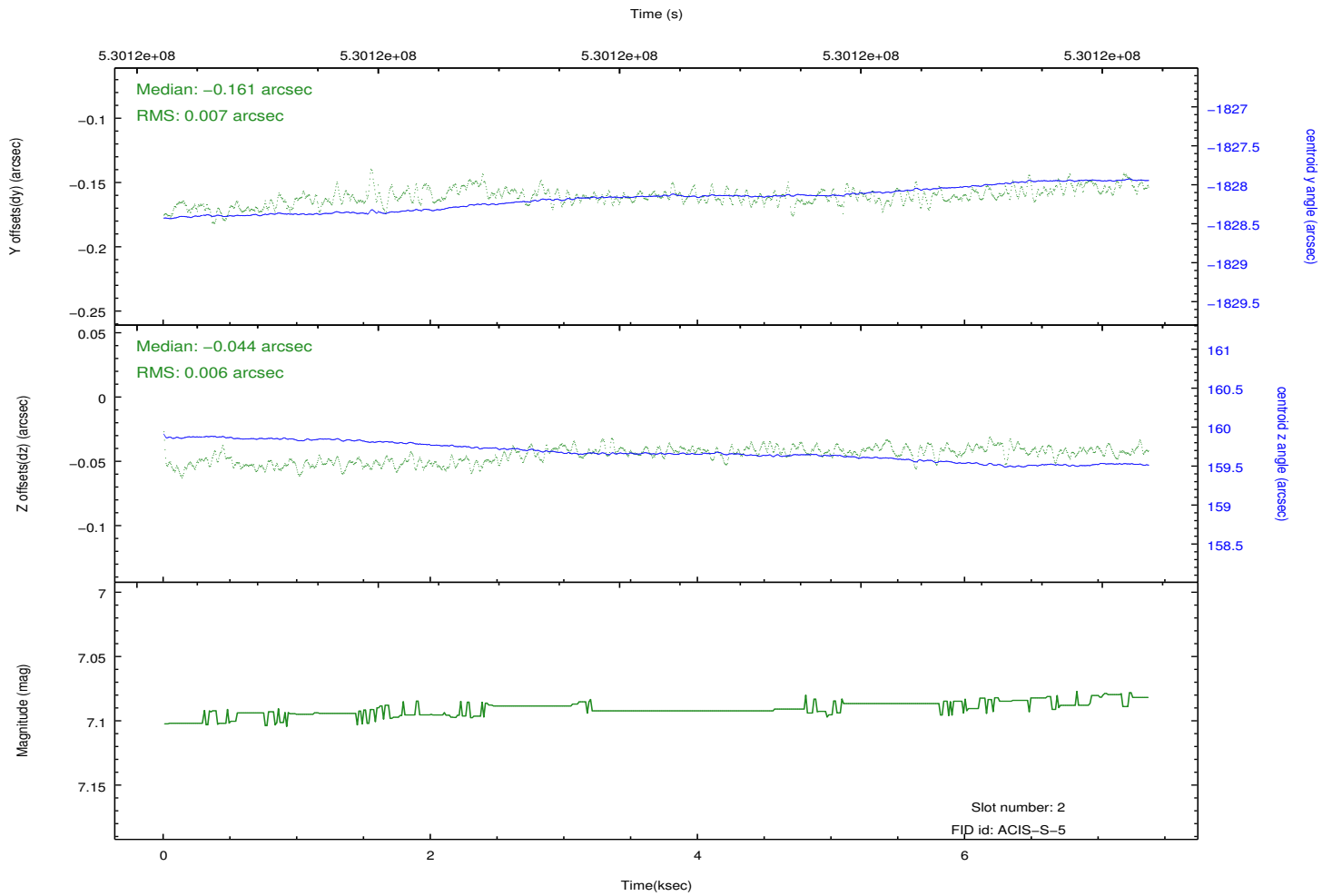
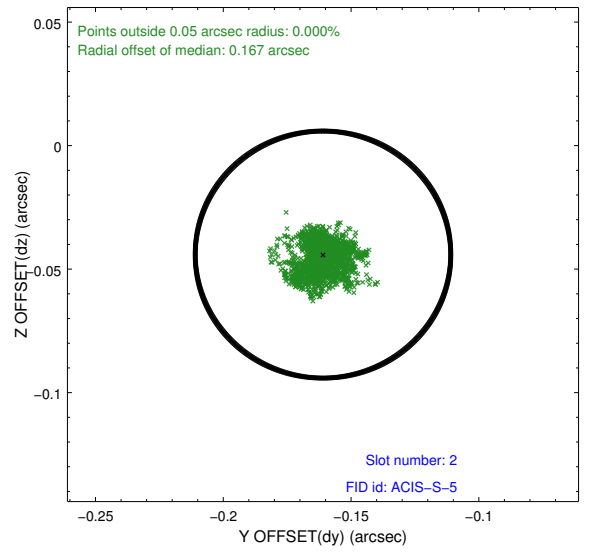
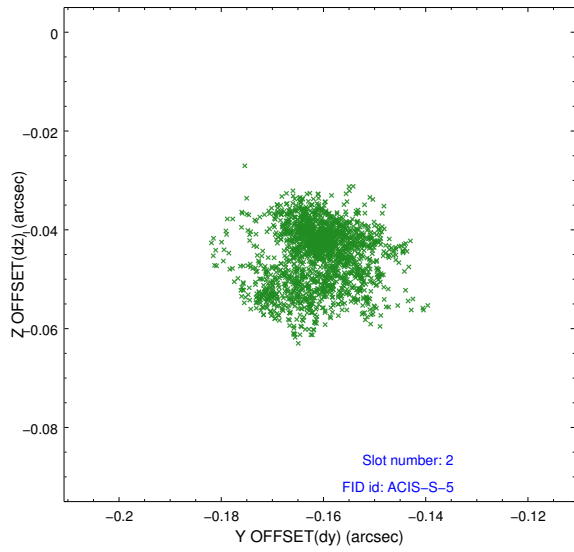
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.10.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.3162512423396

A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.