

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19925 - L2 Version 1
Chandra X-Ray Center

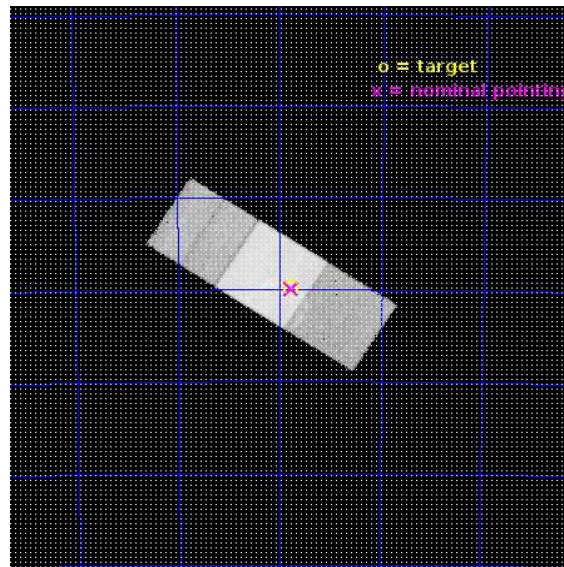
L2 Processing Date : May 13 2017

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1 Front

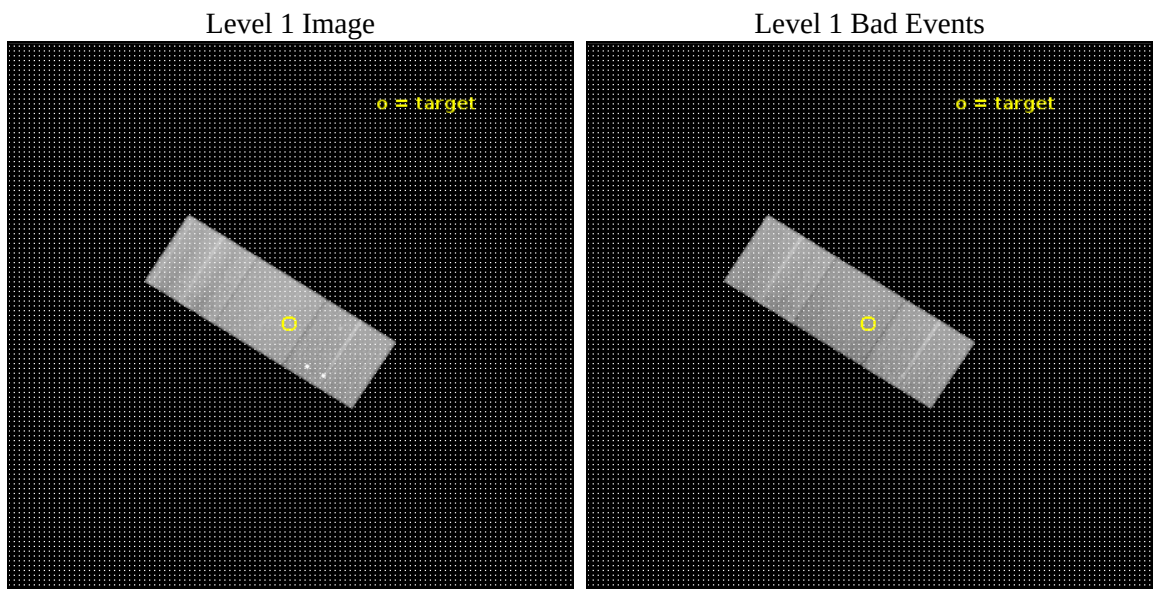
seq_num	502523	Sequence number
obs_id	19925	Observation id
title	The origin of gamma-ray emission from 30 Dor C: The first TeV superbubble	Proposal title
observer	Dr Patrick Kavanagh	Principal investigator
object	30 Dor C	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.94375	Observer's specified target RA [deg]
dec_targ	-69.161111	Observer's specified target Dec [deg]
ra_nom	83.942846121245	Nominal RA [deg]
dec_nom	-69.165400840743	Nominal Dec [deg]
roll_nom	212.61971997839	Nominal Roll [deg]
revision	1	Processing version of data
ontime	41109.100316286	Sum of GTIs [s]
livetime	40571.979656574	Livetime [s]
ontime6	41109.100316286	Sum of GTIs [s]
ontime7	41109.100316286	Sum of GTIs [s]
ontime8	41090.254364967	Sum of GTIs [s]
l2events	247331	Number of level 2 events



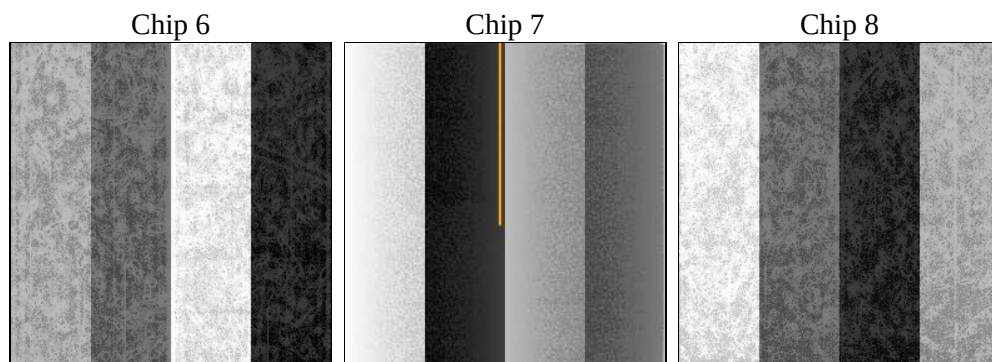
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	41109.100316286	Sum of GTIs [s]
caldbver	4.7.4	 	ontime6	41109.100316286	Sum of GTIs [s]
date	2017-05-13T14:47:48	Date and time of file creation	ontime7	41109.100316286	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	41090.254364967	Sum of GTIs [s]
			l1events	1125902	Number of level 1 events

2.1.4 Events

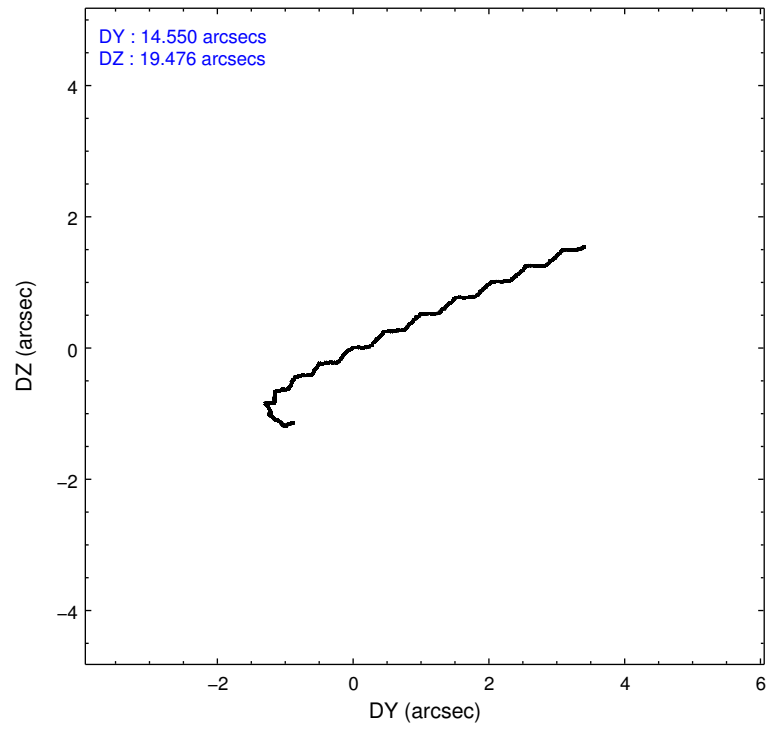
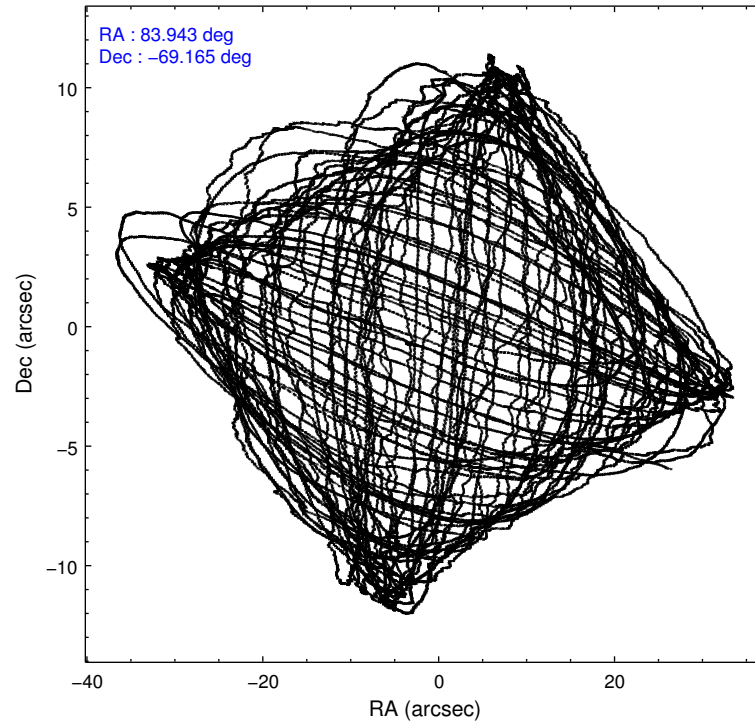
	ccd 6	ccd 7	ccd 8
level 1 events	330369	389715	405818
rejected events	267448	211045	289505
rejected %	80%	54%	71%

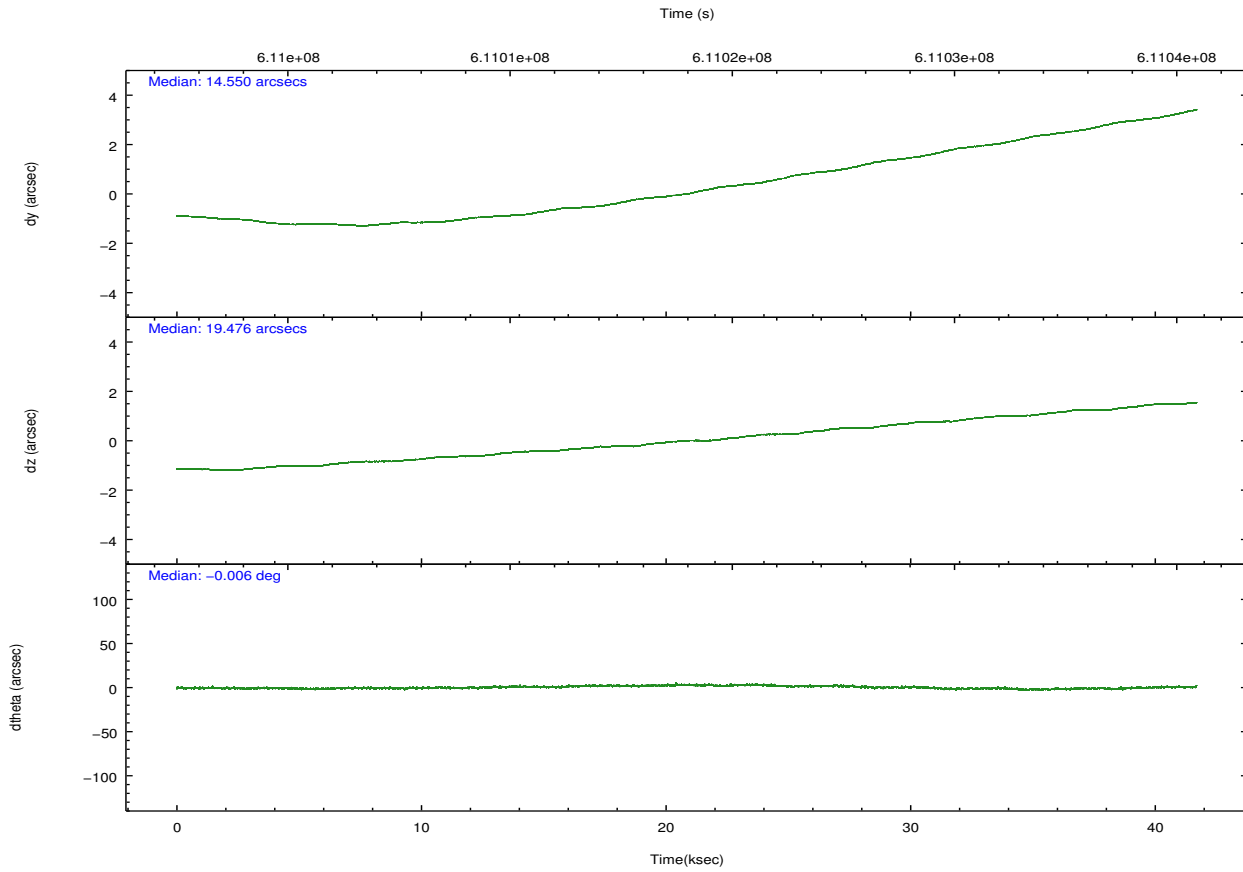
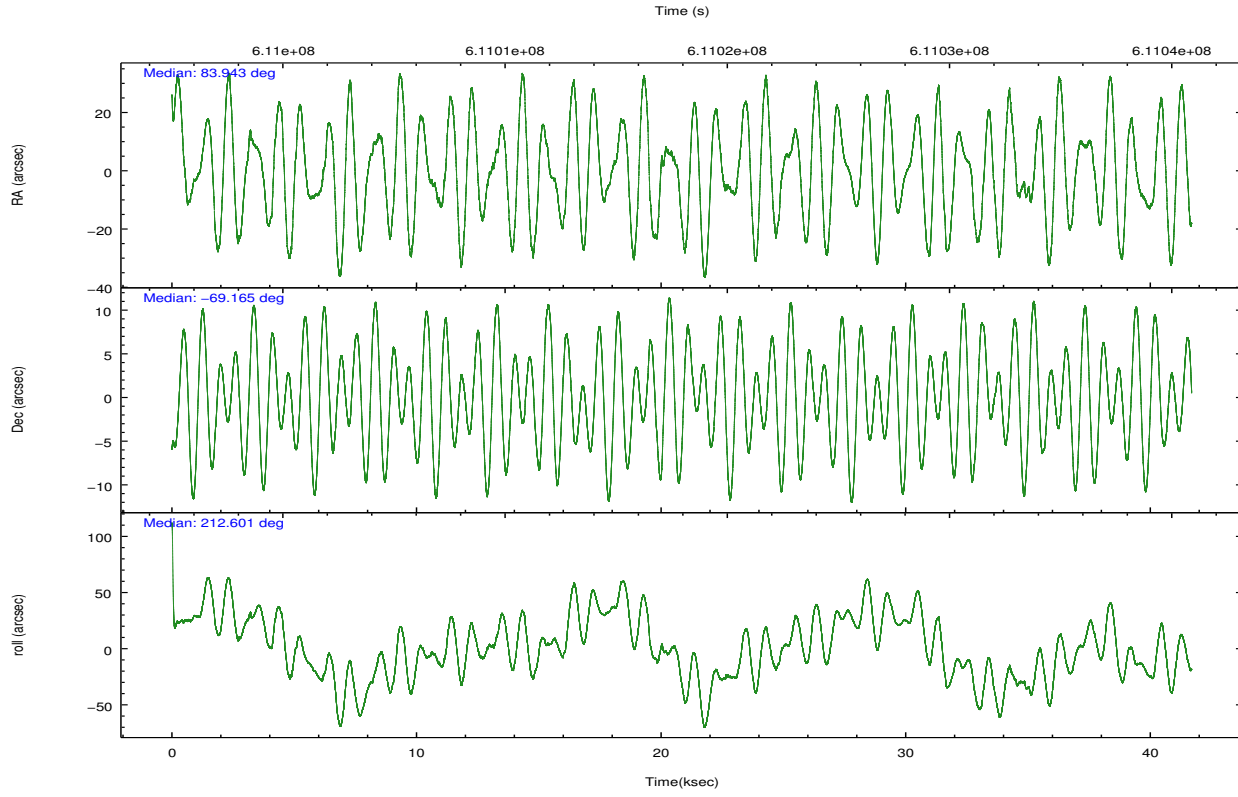
	ccd 6	ccd 7	ccd 8
grade 0 events	14327	17448	37994
	4%	4%	9%
grade 1 events	157	537	336
	0%	0%	0%
grade 2 events	33458	38857	26809
	10%	9%	6%
grade 3 events	3591	14845	11540
	1%	3%	2%
grade 4 events	3468	14860	10825
	1%	3%	2%
grade 5 events	14604	38172	21317
	4%	9%	5%
grade 6 events	8084	92696	29158
	2%	23%	7%
grade 7 events	252680	172300	267839
	76%	44%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	83.977335	83.94284612124522	Subarray requested	NONE	NONE
[deg] Pointing Dec	-69.140862	-69.16540084074285	Alternating exposures requested	N	N
[deg] Pointing Roll	212.495299	212.6197199783932	[s] Primary exposure time	0.000000	3.1
[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)	610997809.184000	610996189.03592			
Observation start date	2017-05-12T17:35:40	2017-05-12T17:09:49			
[s] Observation end time (MET)	611038809.184000	611039765.88845			
Observation end date	2017-05-13T04:59:00	2017-05-13T05:16:05			
Read mode	TIMED	TIMED			

2.3 Aspect



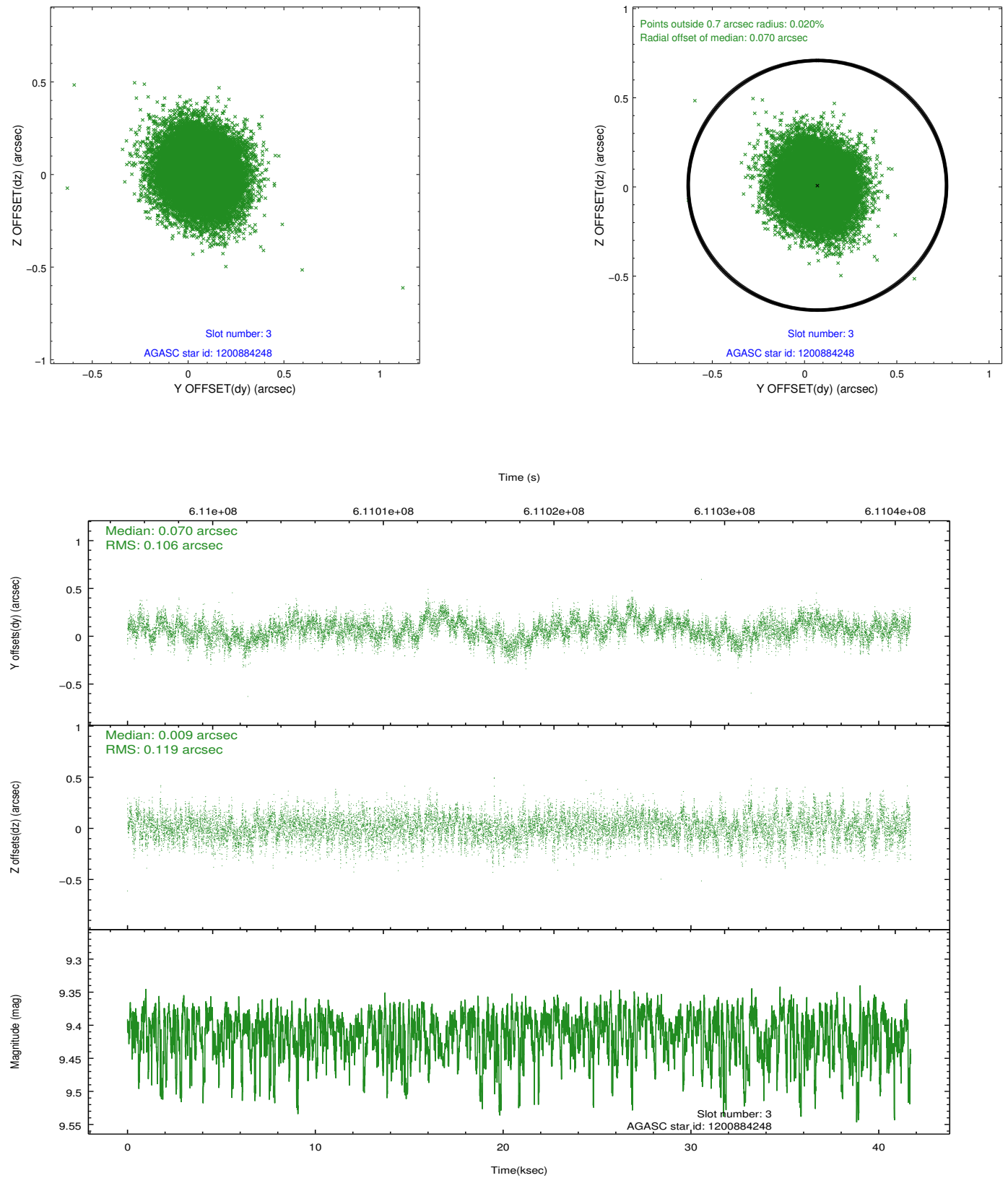


Slot Statistics

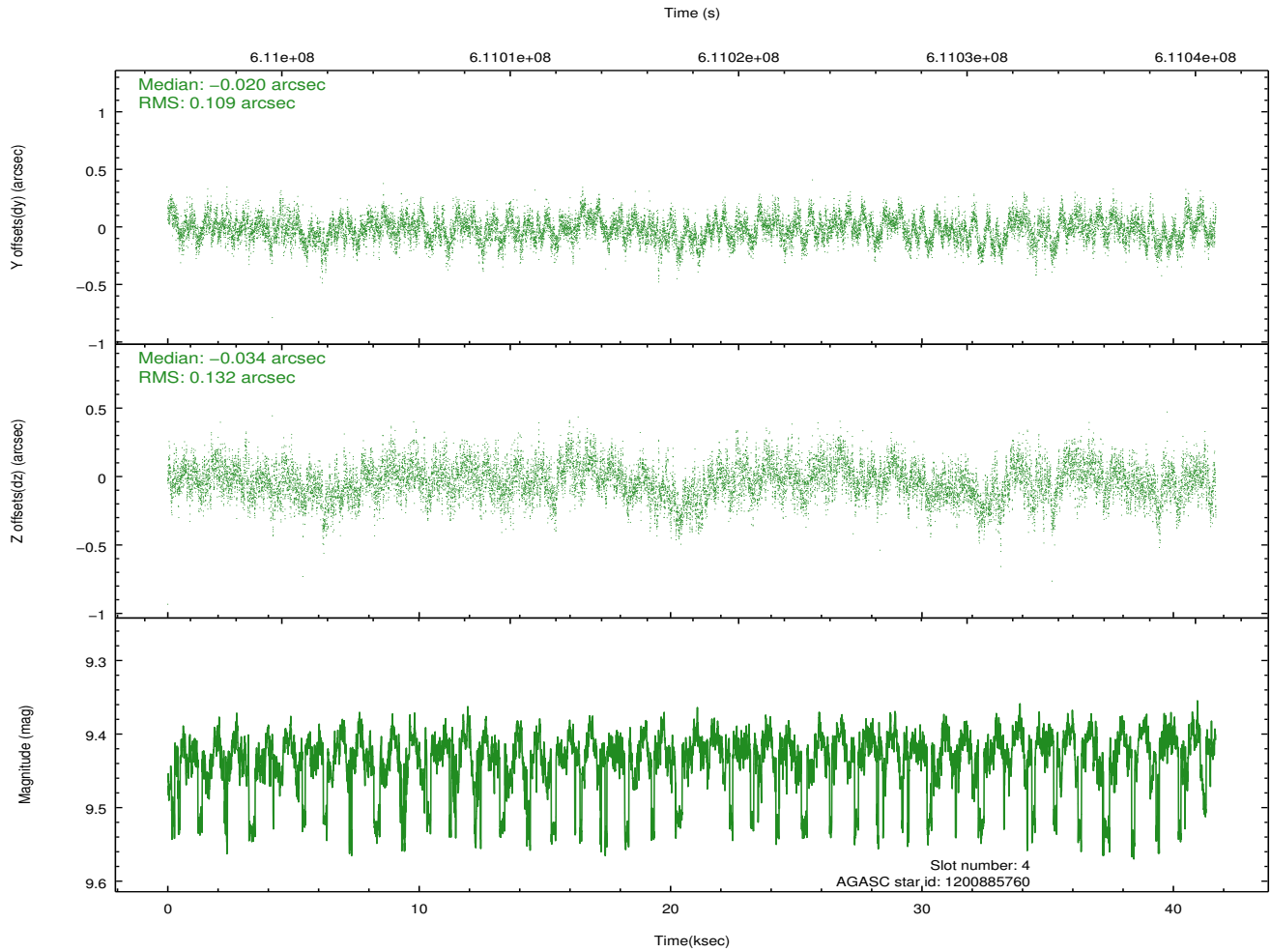
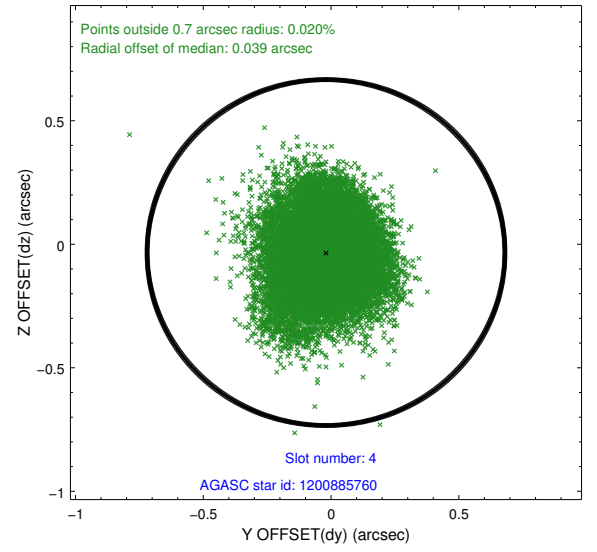
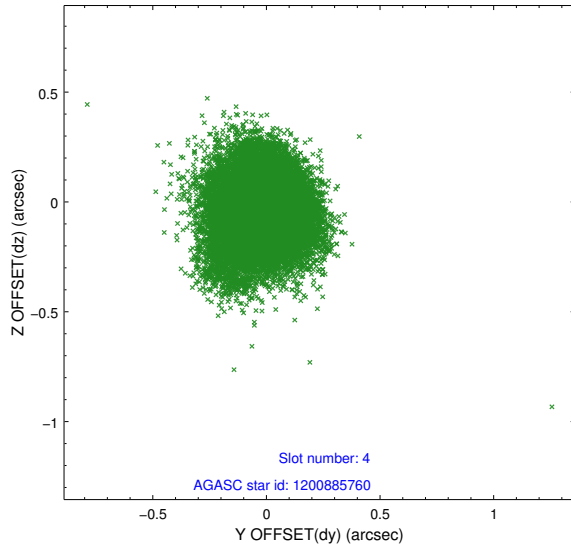
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.07	10166	-0.076	-0.030	0.055	0.080	0.000000	0.000000	928.05	-1736.68
1	FID		ACIS-S-4	7.09	10169	0.194	0.058	0.027	0.045	0.000000	0.000000	2145.70	167.57
2	FID		ACIS-S-6	7.23	10169	-0.138	-0.016	0.032	0.074	0.000000	0.000000	393.90	804.86
3	GUIDE	used	1200884248	9.41	20310	0.070	0.009	0.170	0.276	83.880915	-68.565170	-1005.88	-1815.87
4	GUIDE	used	1200885760	9.43	20316	-0.020	-0.034	0.180	0.299	83.723637	-68.777667	-422.43	-1279.23
5	GUIDE	used	1201019200	9.41	20306	0.002	0.007	0.187	0.297	84.213591	-68.777384	-961.60	-937.53
6	GUIDE	used	1201019672	6.81	20339	-0.137	0.196	0.123	0.213	85.312192	-68.770187	-2173.97	-174.74
7	GUIDE	used	1201020040	8.55	20325	0.071	-0.177	0.137	0.233	85.379163	-68.879396	-2027.78	200.21

2.4 Star Slots

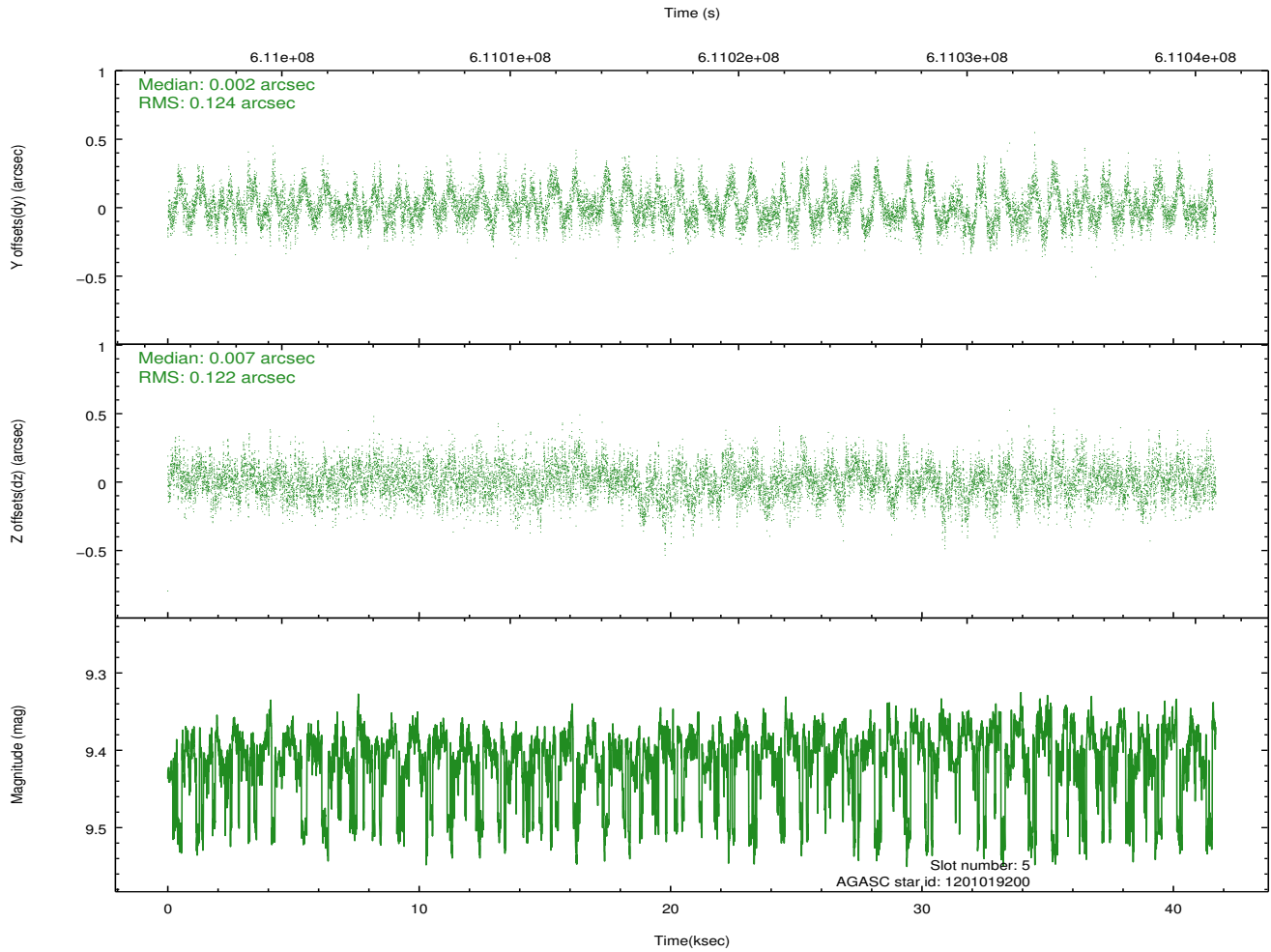
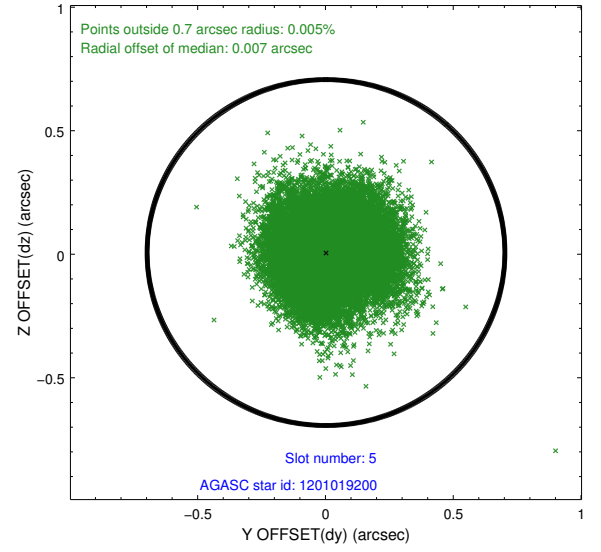
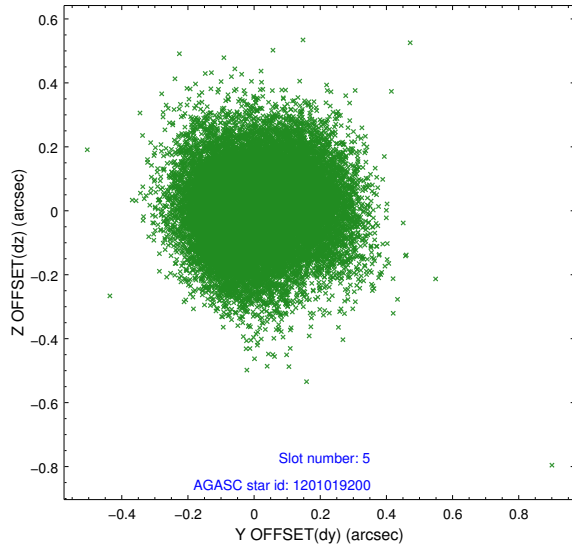
2.4.1 Slot 3



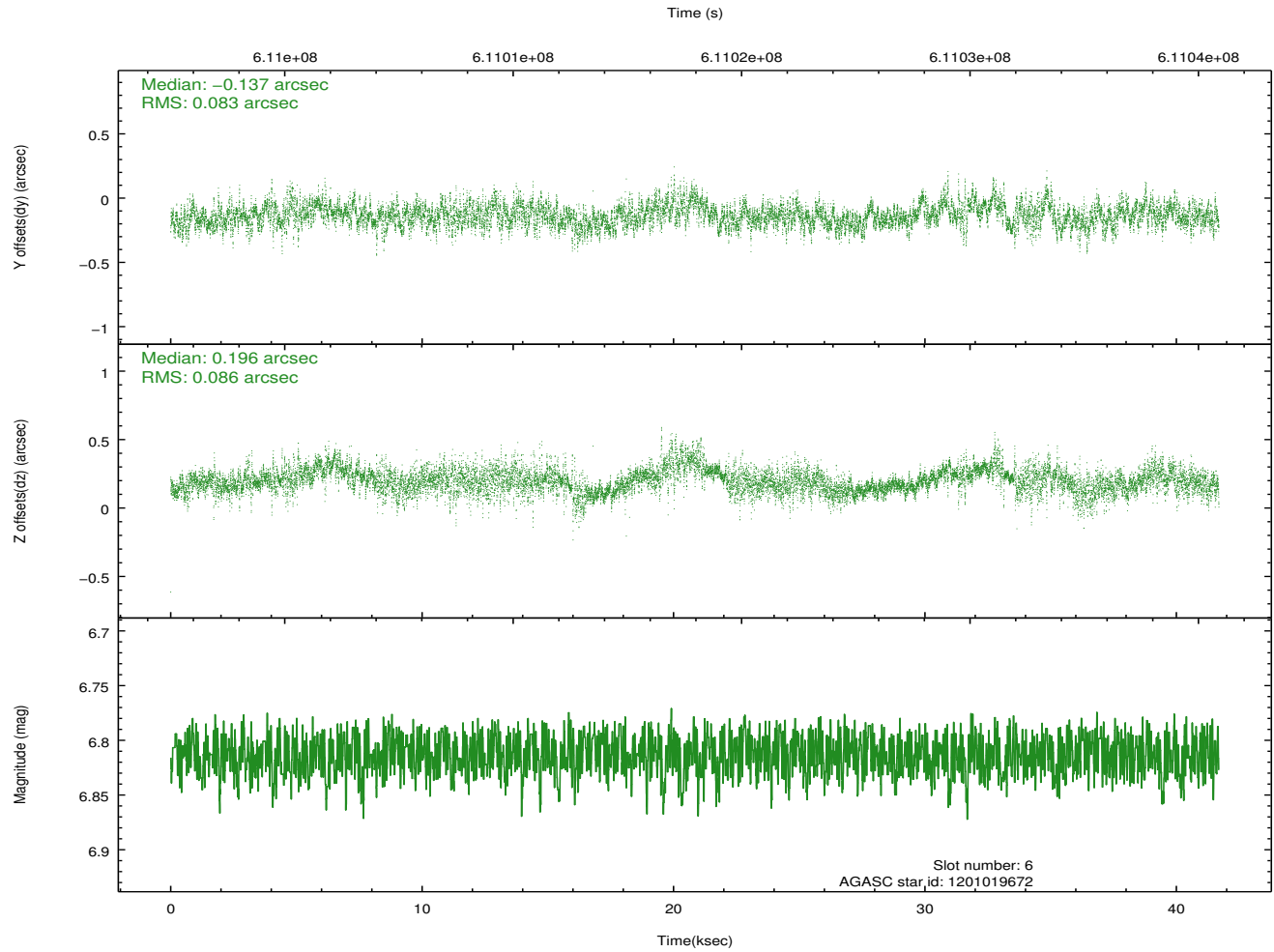
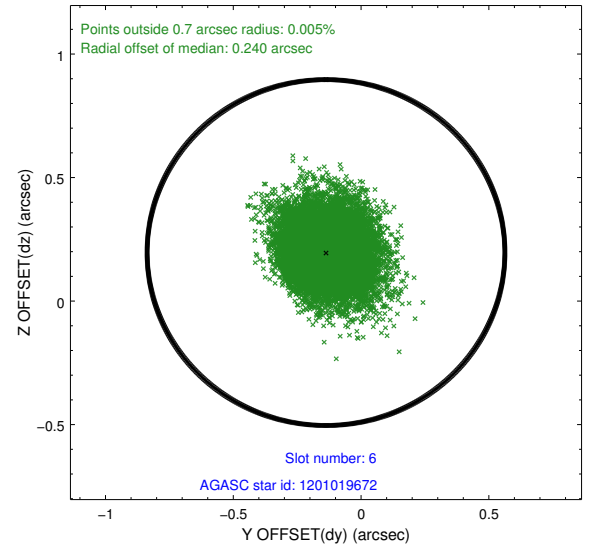
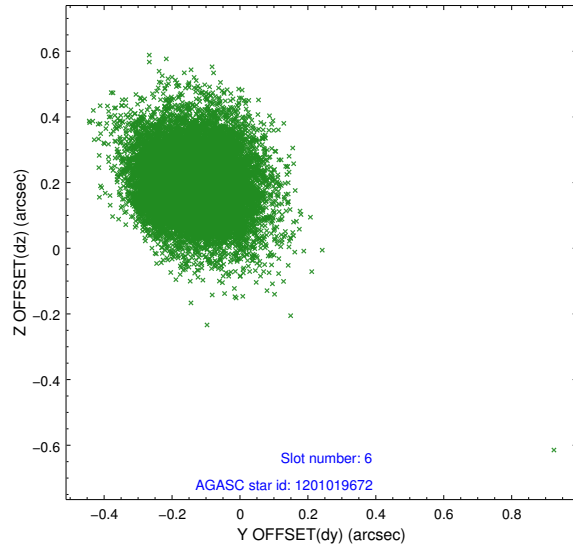
2.4.2 Slot 4



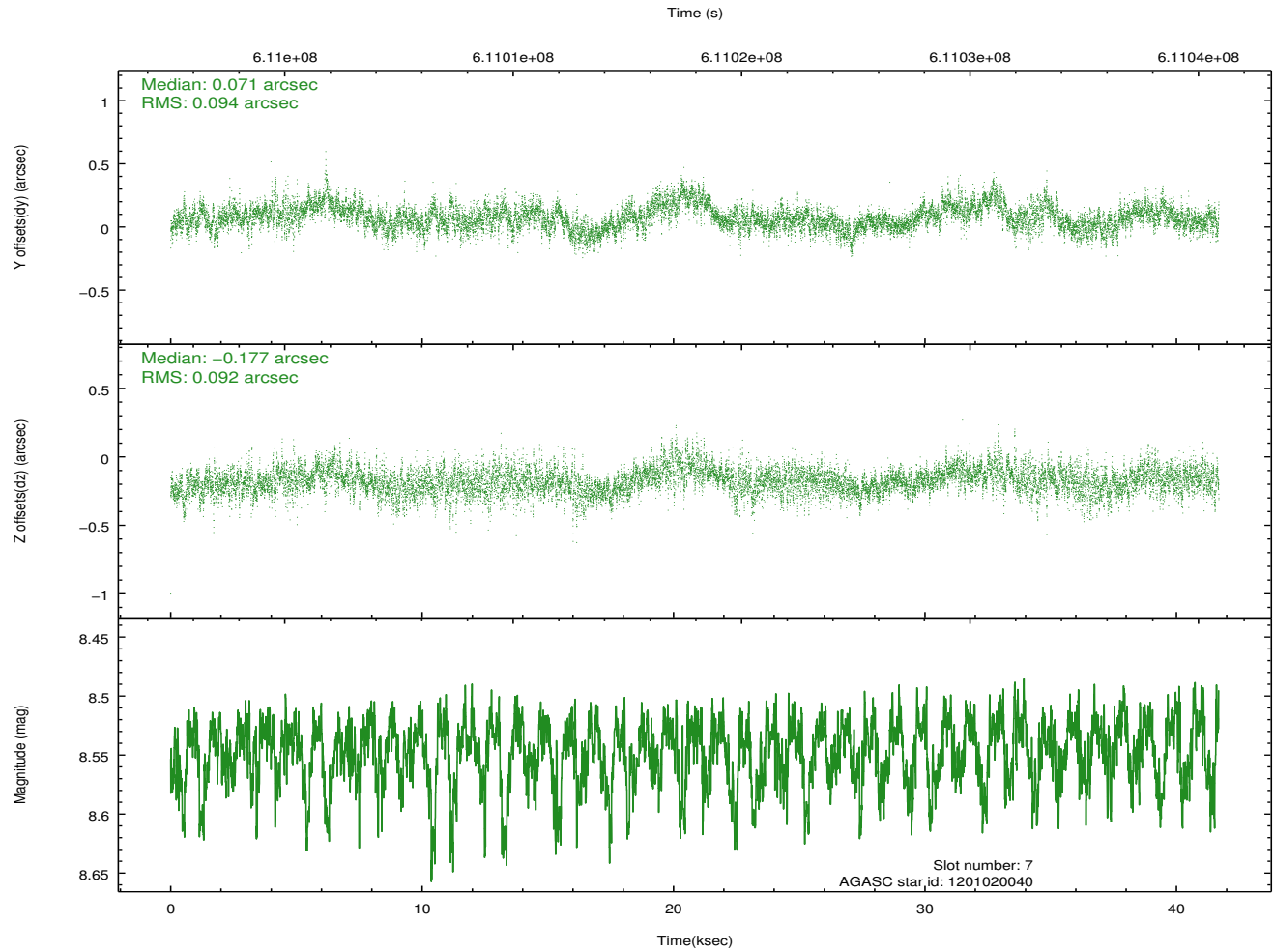
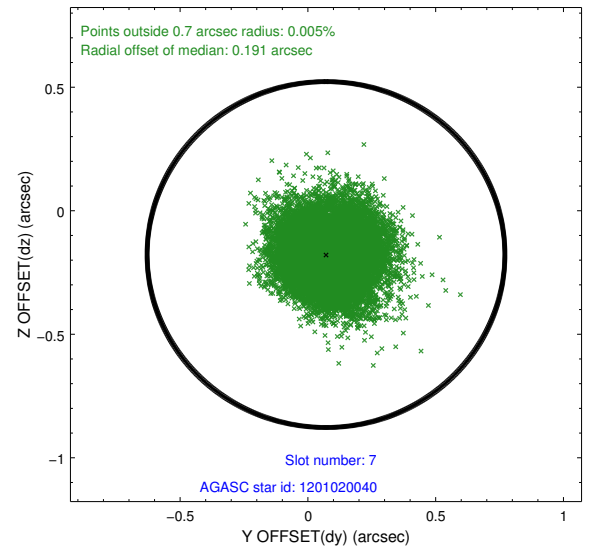
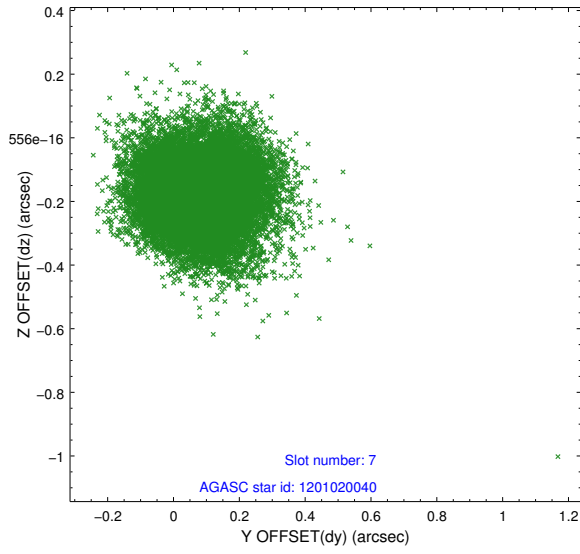
2.4.3 Slot 5



2.4.4 Slot 6

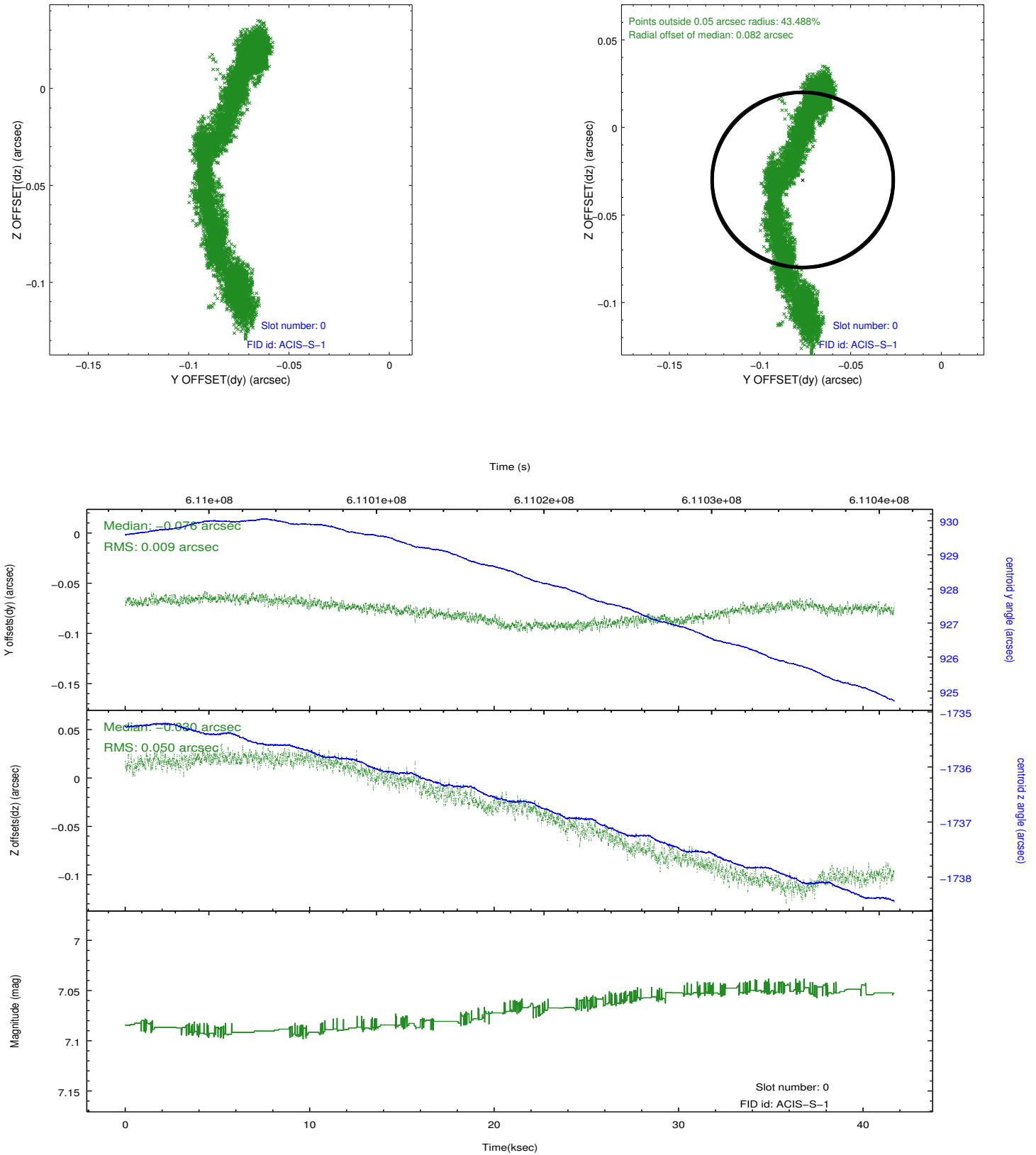


2.4.5 Slot 7

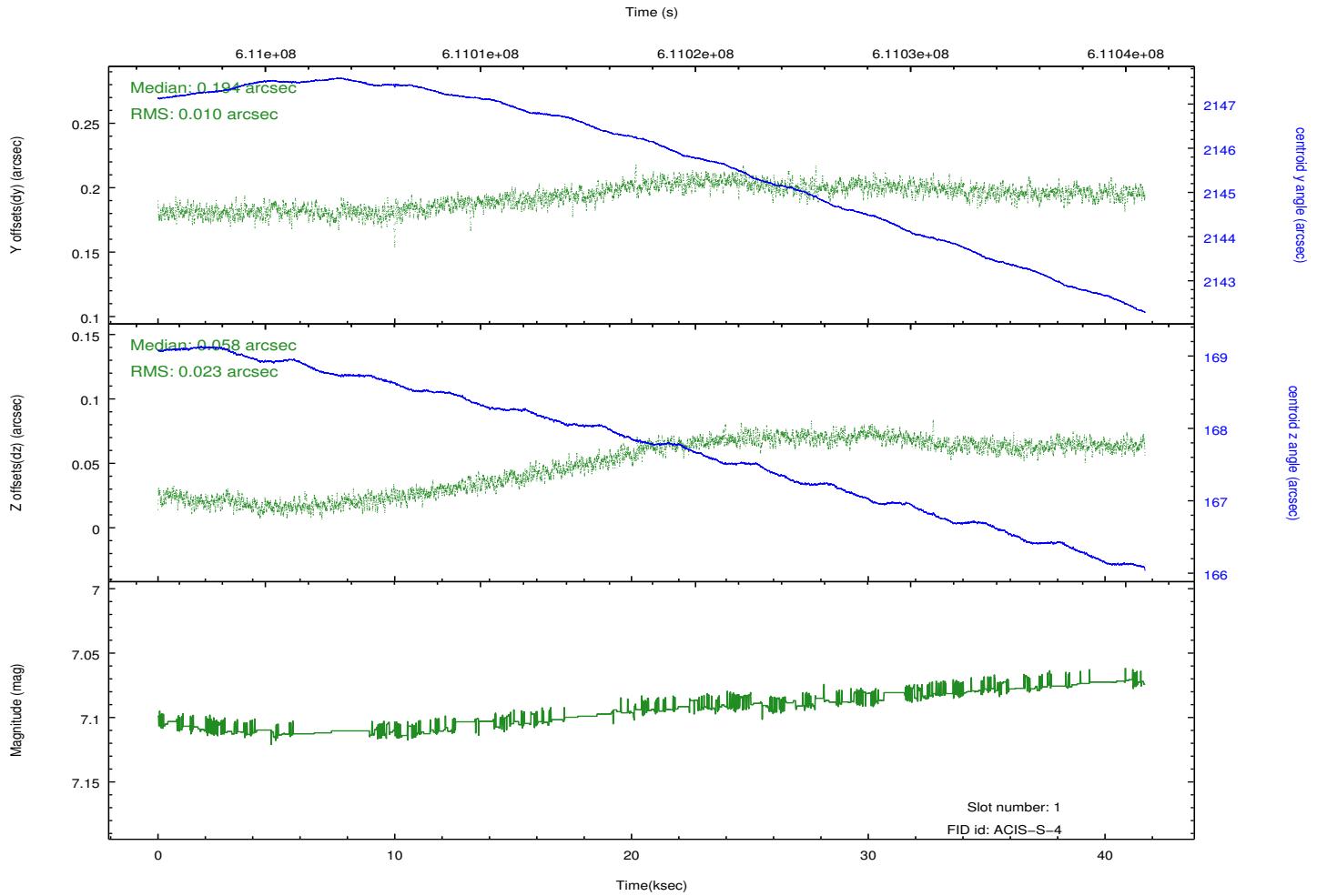
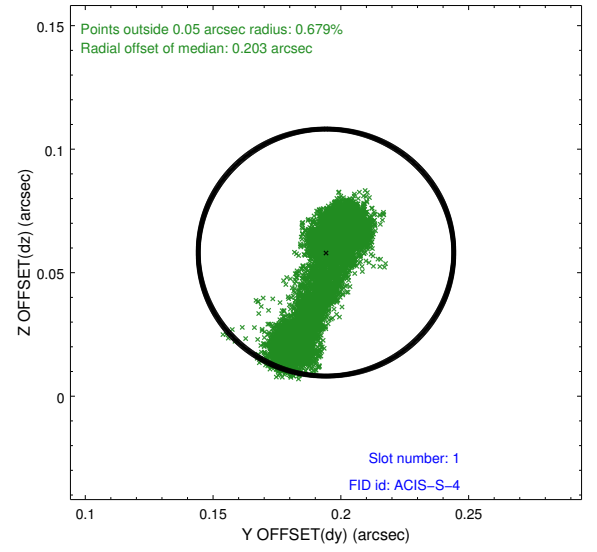
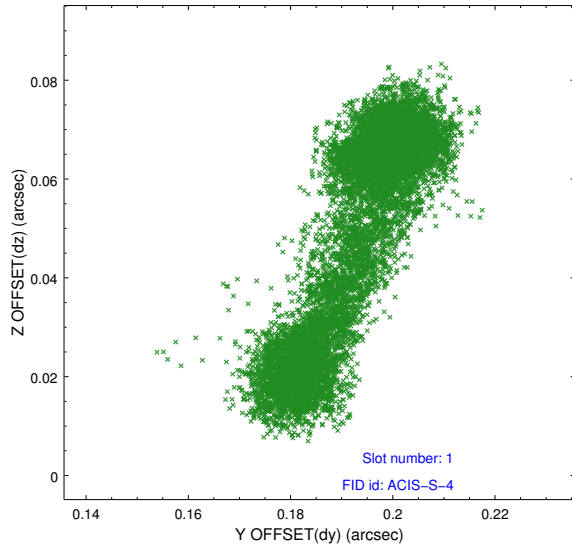


2.5 FID Slots

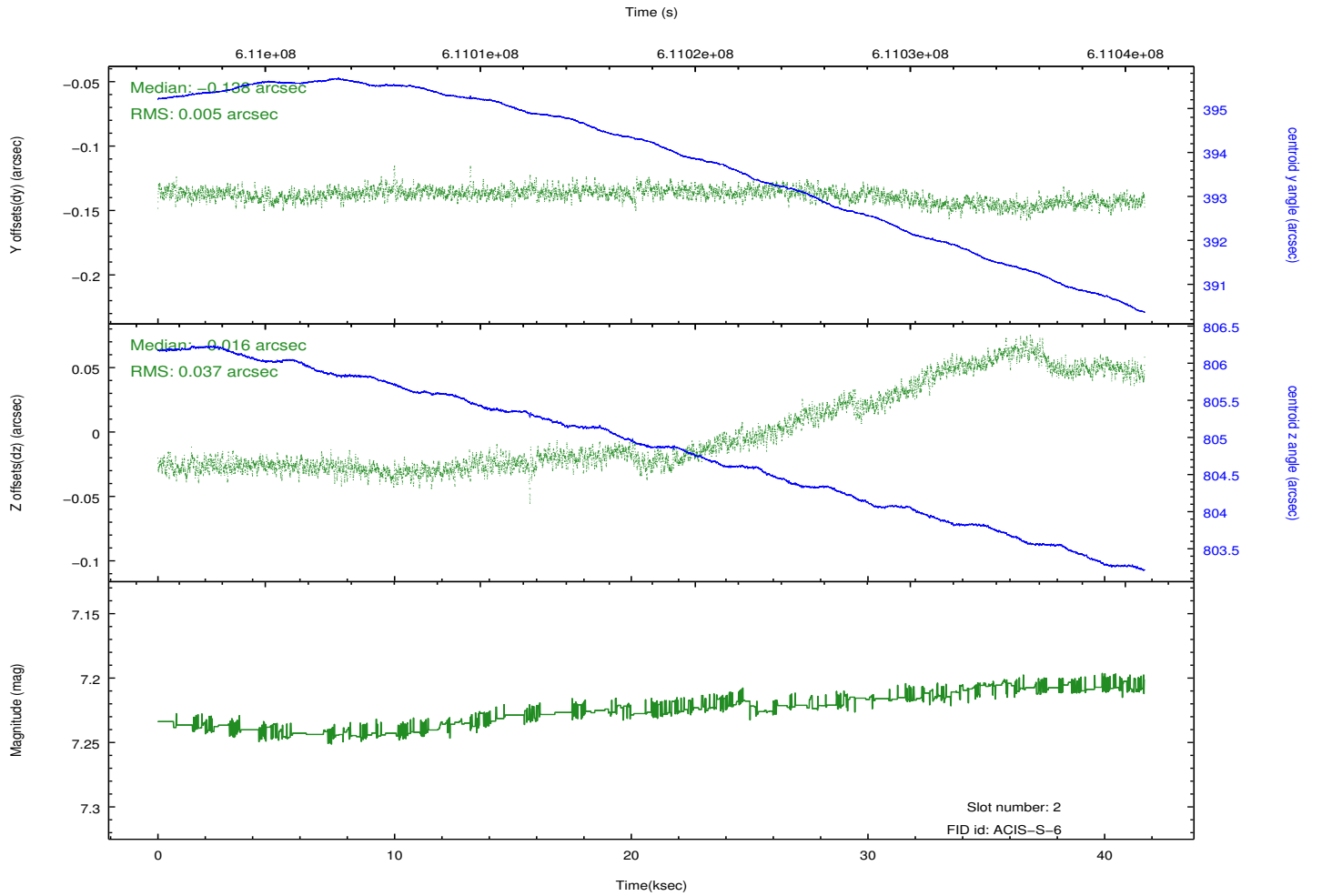
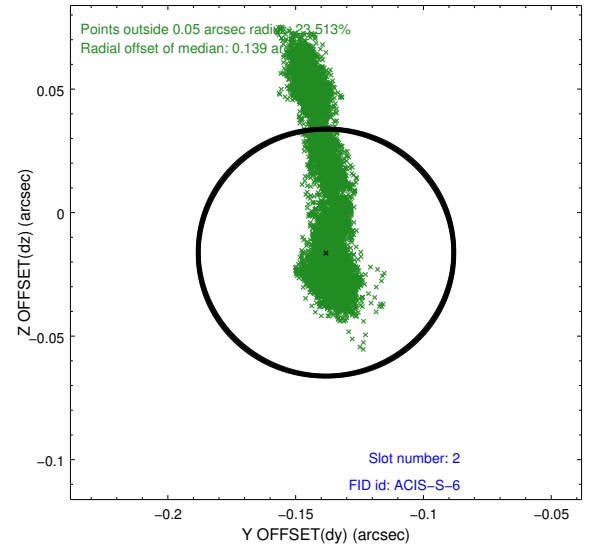
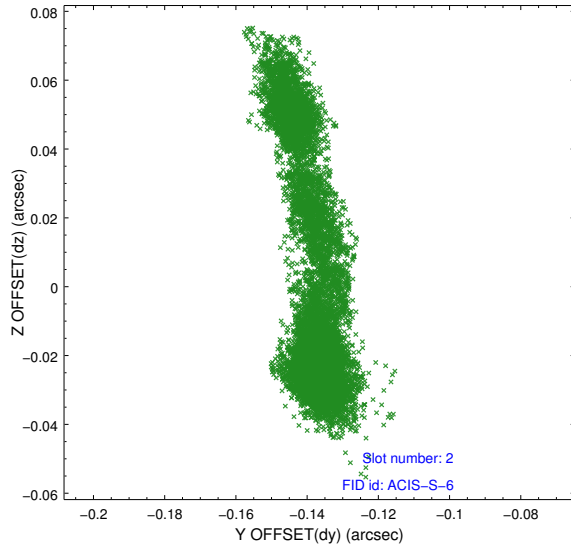
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.05.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.109100316286

A.2 Comments