

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21562 - L2 Version 1
Chandra X-Ray Center

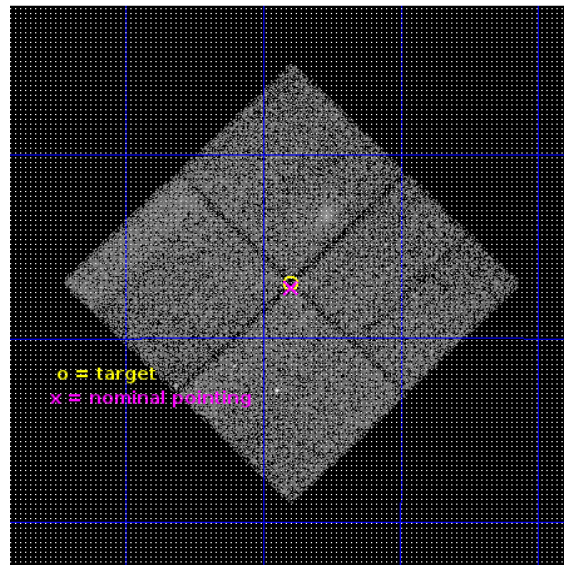
L2 Processing Date : Jun 14 2019

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1 Front

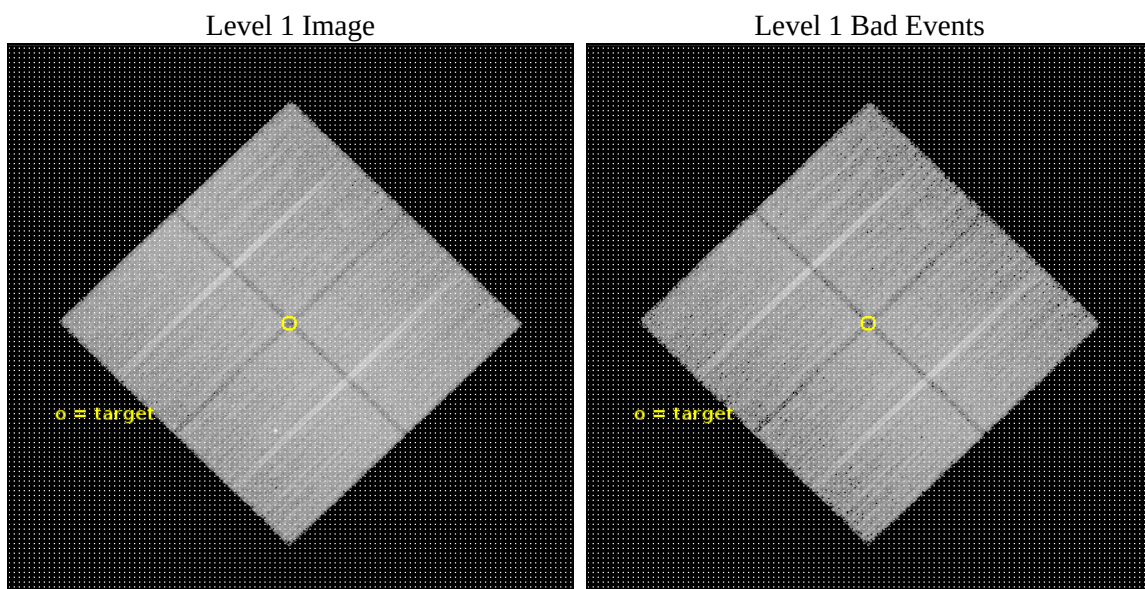
seq_num	801840	Sequence number
obs_id	21562	Observation id
title	Characterizing the most X-ray luminous galaxy clusters at z=0.5-1	
observer	Harald Ebeling	Principal investigator
object	eMACSJ0256-16PAIR	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	44.225	Observer's specified target RA [deg]
dec_targ	-16.45	Observer's specified target Dec [deg]
ra_nom	44.224255849279	Nominal RA [deg]
dec_nom	-16.454130927485	Nominal Dec [deg]
roll_nom	135.20847612493	Nominal Roll [deg]
revision	1	Processing version of data
ontime	33075.613866568	Sum of GTIs [s]
livetime	32643.456621488	Livetime [s]
ontime0	33075.572826743	Sum of GTIs [s]
ontime1	33075.613866568	Sum of GTIs [s]
ontime2	33063.09102571	Sum of GTIs [s]
ontime3	33075.69593668	Sum of GTIs [s]
l2events	98370	Number of level 2 events



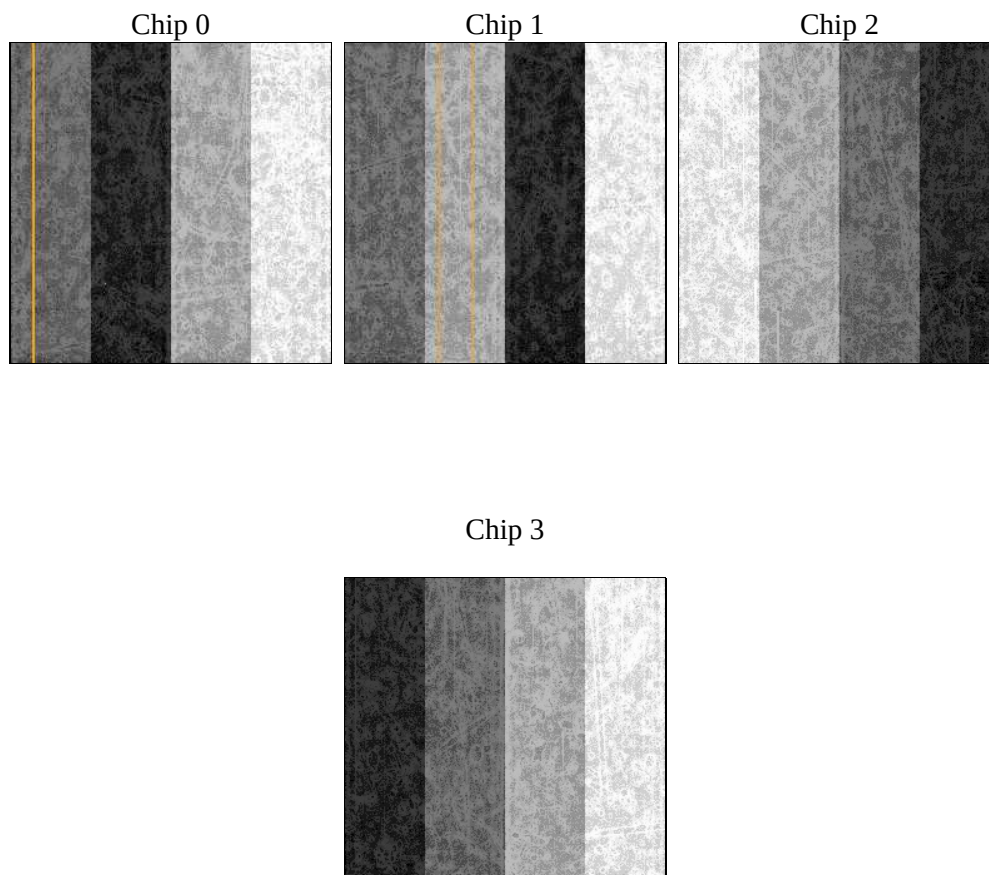
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	33075.613866568	Sum of GTIs [s]
caldsver	4.8.3	 	ontime0	33075.572826743	Sum of GTIs [s]
date	2019-06-14T05:25:42	Date and time of file creation	ontime1	33075.613866568	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	33063.09102571	Sum of GTIs [s]
			ontime3	33075.69593668	Sum of GTIs [s]
			l1events	942431	Number of level 1 events

2.1.4 Events

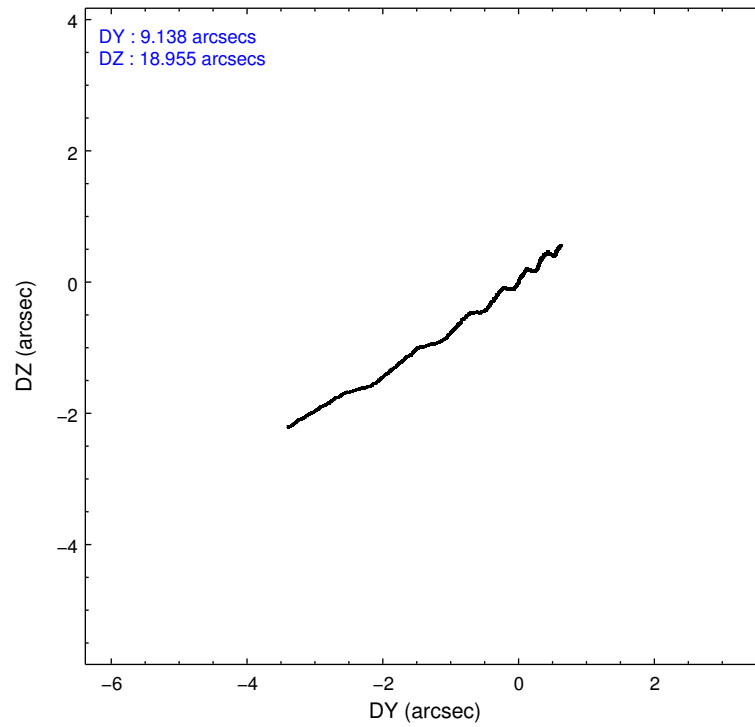
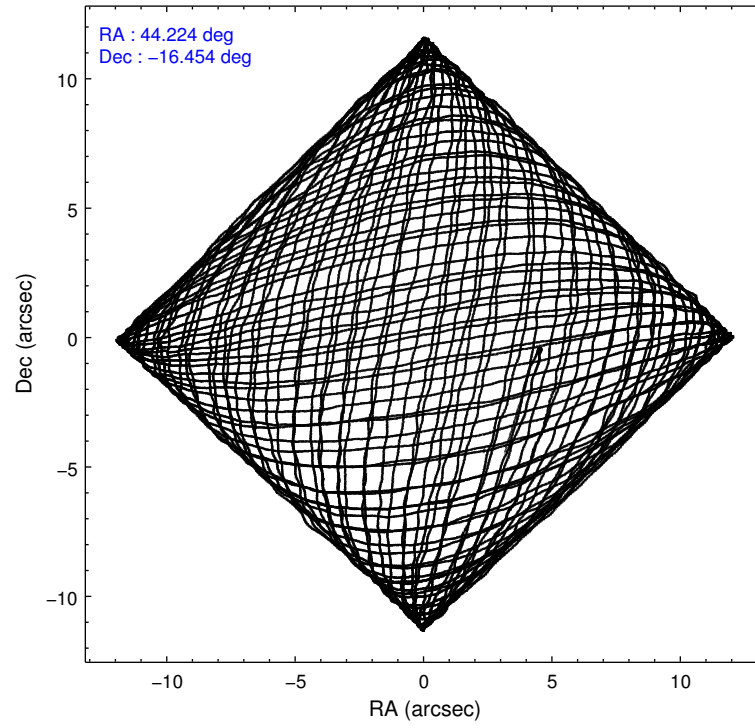
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	224196	228595	245048	244592
rejected events	194993	196677	216677	215867
rejected %	86%	86%	88%	88%

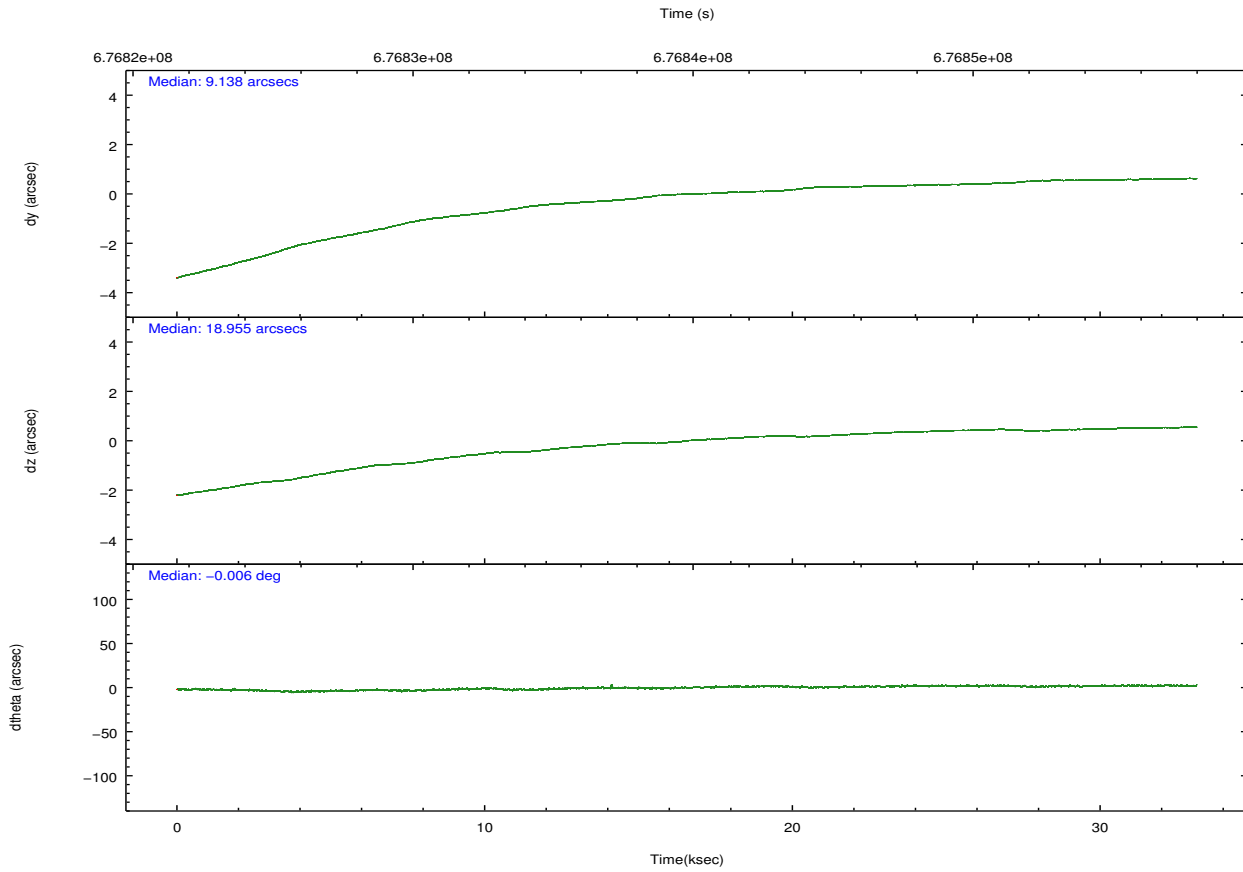
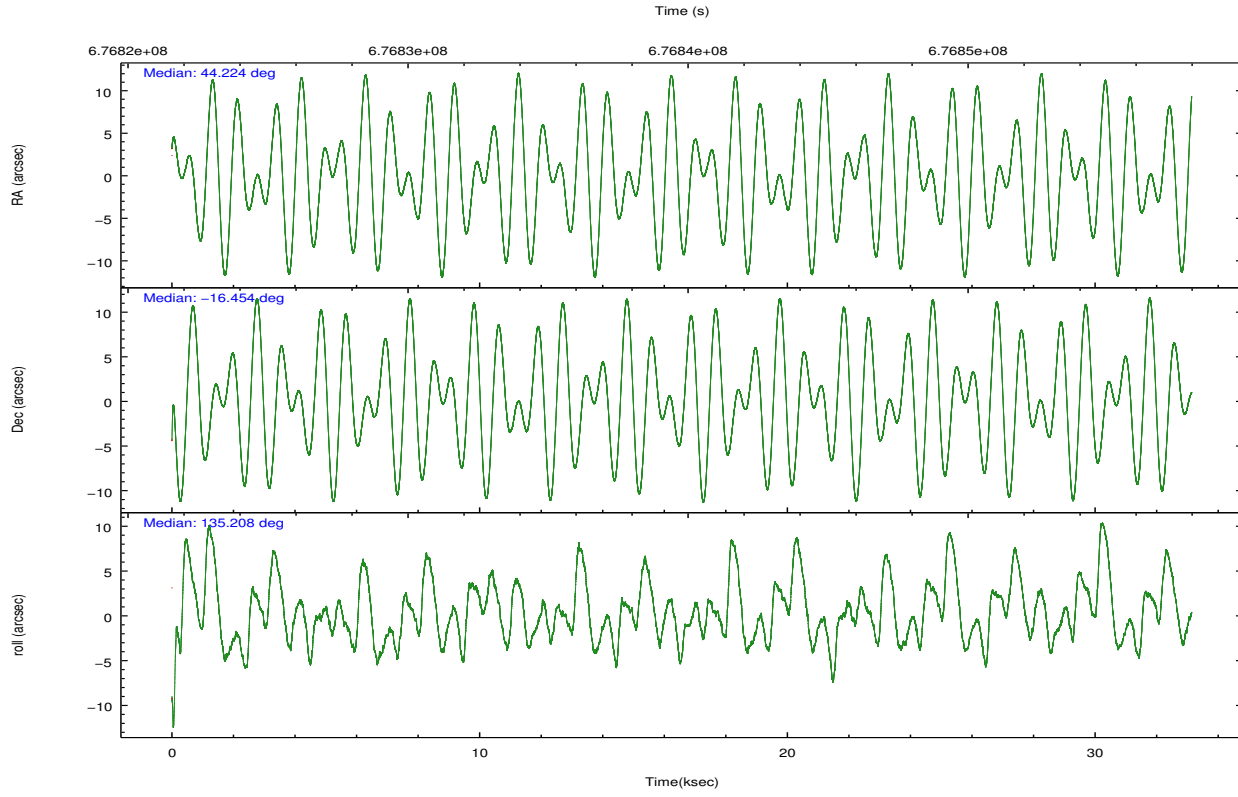
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	10197	10971	9961	11237
	4%	4%	4%	4%
grade 1 events	135	119	166	150
	0%	0%	0%	0%
grade 2 events	7451	8287	7287	6169
	3%	3%	2%	2%
grade 3 events	2898	2949	2702	2811
	1%	1%	1%	1%
grade 4 events	2688	2911	2789	2861
	1%	1%	1%	1%
grade 5 events	11074	11518	10279	12104
	4%	5%	4%	4%
grade 6 events	5975	6808	5638	5653
	2%	2%	2%	2%
grade 7 events	183778	185032	206226	203607
	81%	80%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	44.252108	44.22425584927873	Subarray requested	NONE	NONE
[deg] Pointing Dec	-16.461067	-16.45413092748472	Alternating exposures requested	N	N
[deg] Pointing Roll	135.007676	135.2084761249349	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-235.192463	-235.1965962538271			
[mm] SIM translation stage offset	1.6	1.604143250897408			
[s] Observation start time (MET)	676823342.184000	676821760.65774			
Observation start date	2019-06-13T14:27:53	2019-06-13T14:02:40			
[s] Observation end time (MET)	676856342.184000	676857366.08488			
Observation end date	2019-06-13T23:37:53	2019-06-13T23:56:06			
Read mode	TIMED	TIMED			

2.3 Aspect



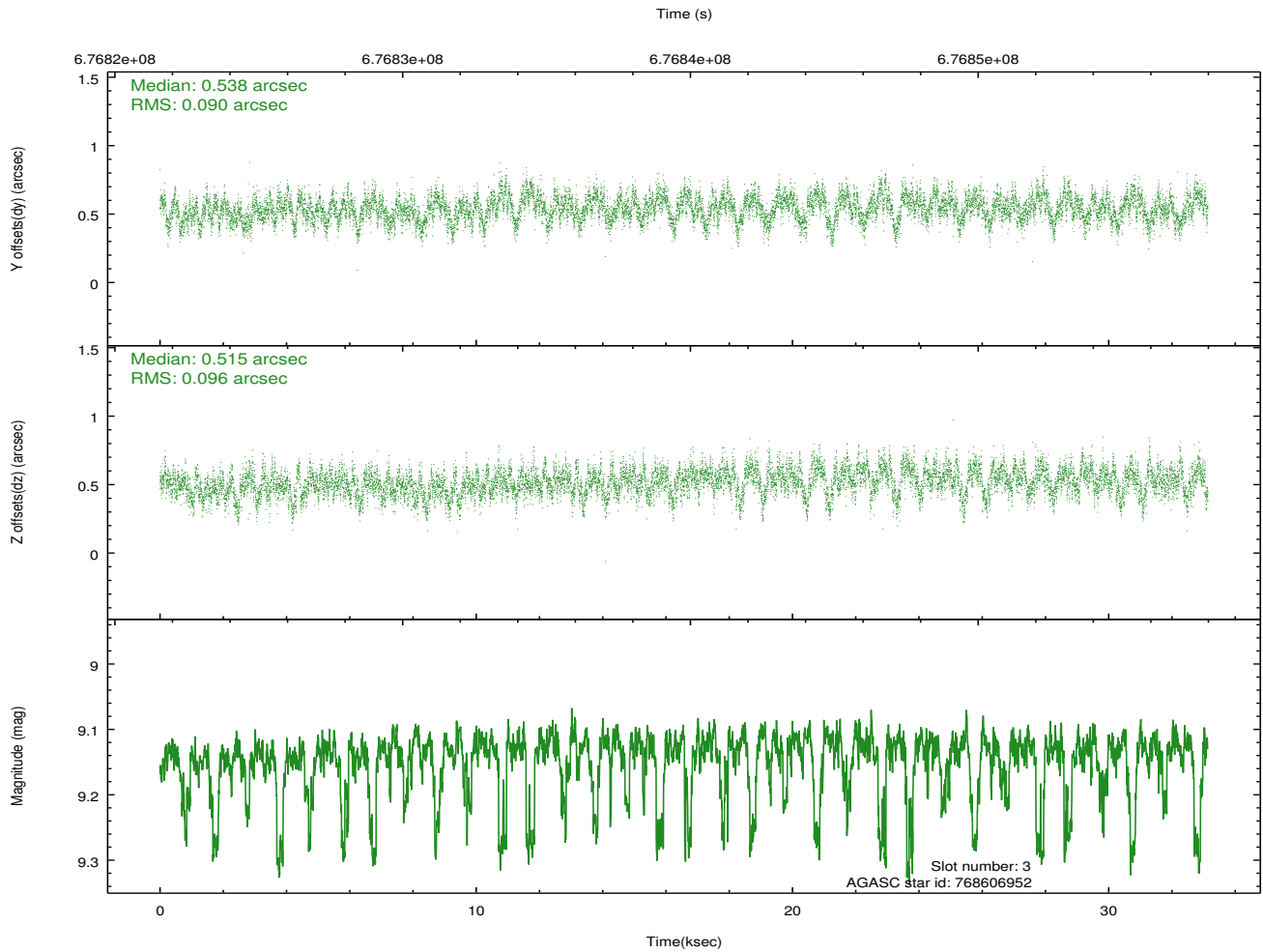
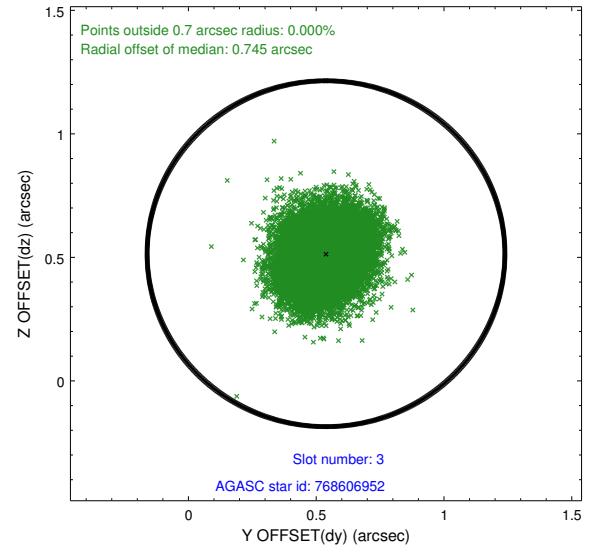
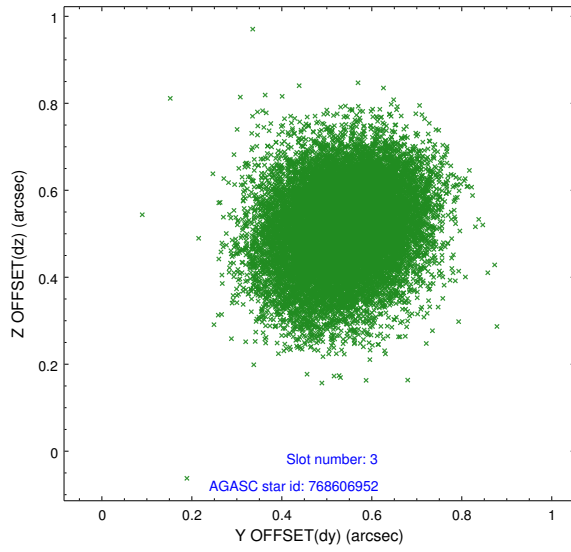


Slot Statistics

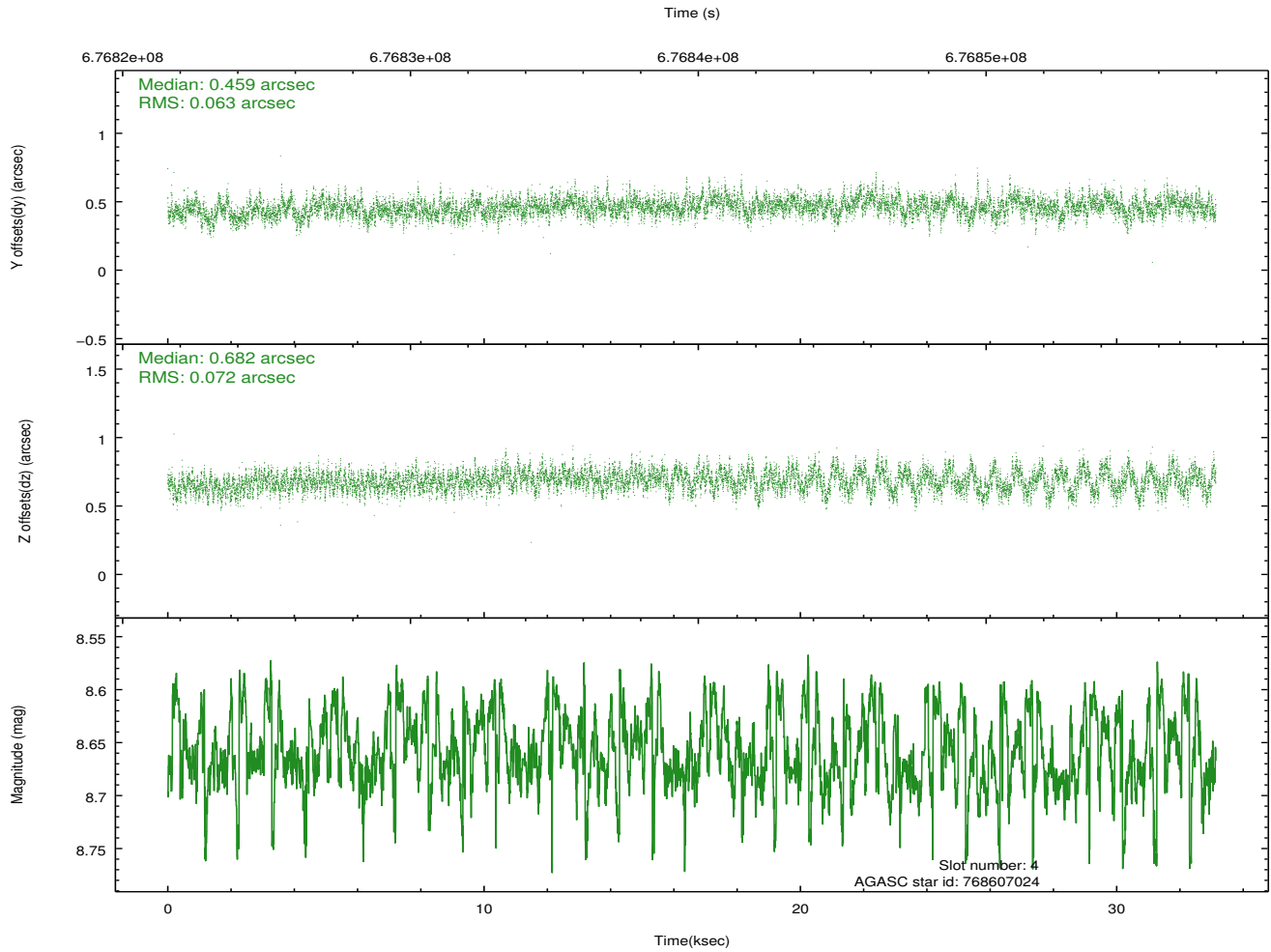
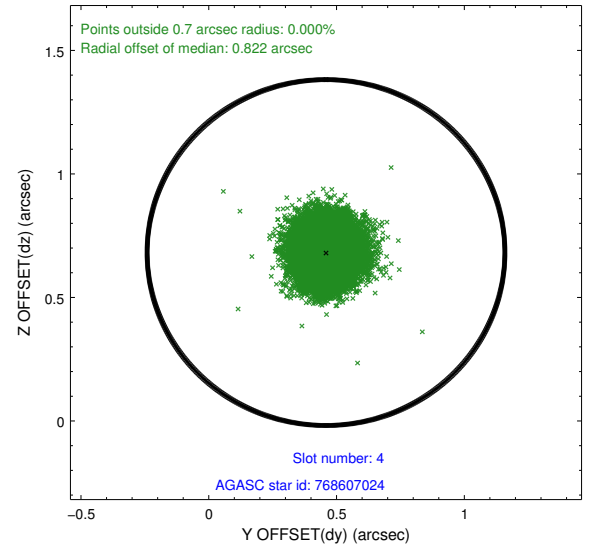
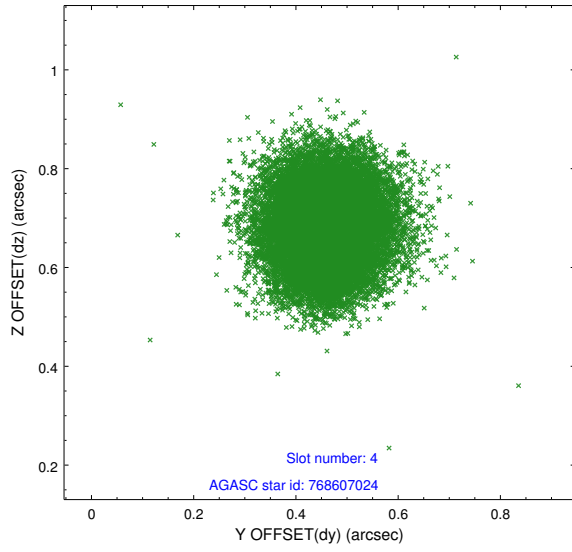
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.11	8082	1.000	0.067	-0.071	0.028	0.082	0.000000	0.000000	931.11	-809
1	FID		ACIS-I-5	7.07	8083	1.000	-0.374	0.017	0.018	0.032	0.000000	0.000000	-1817.54	1088
2	FID		ACIS-I-6	7.06	8082	1.000	0.215	0.123	0.017	0.082	0.000000	0.000000	396.57	1732
3	GUIDE	used	768606952	9.14	16150	1.000	0.538	0.515	0.140	0.227	44.989907	-16.698683	-2406.10	-1189
4	GUIDE	used	768607024	8.66	16152	1.000	0.459	0.682	0.103	0.163	44.925453	-16.725697	-2317.67	-964
5	GUIDE	used	768608104	9.35	16136	1.000	-0.669	-0.628	0.138	0.219	43.635473	-16.791597	658.59	2345
6	GUIDE	used	768609016	8.58	16158	1.000	-0.180	-0.528	0.089	0.147	43.988649	-16.974151	-664.89	1948
7	GUIDE	used	768611992	8.02	16153	1.000	-0.154	-0.038	0.081	0.137	43.977266	-16.059365	1694.32	-349

2.4 Star Slots

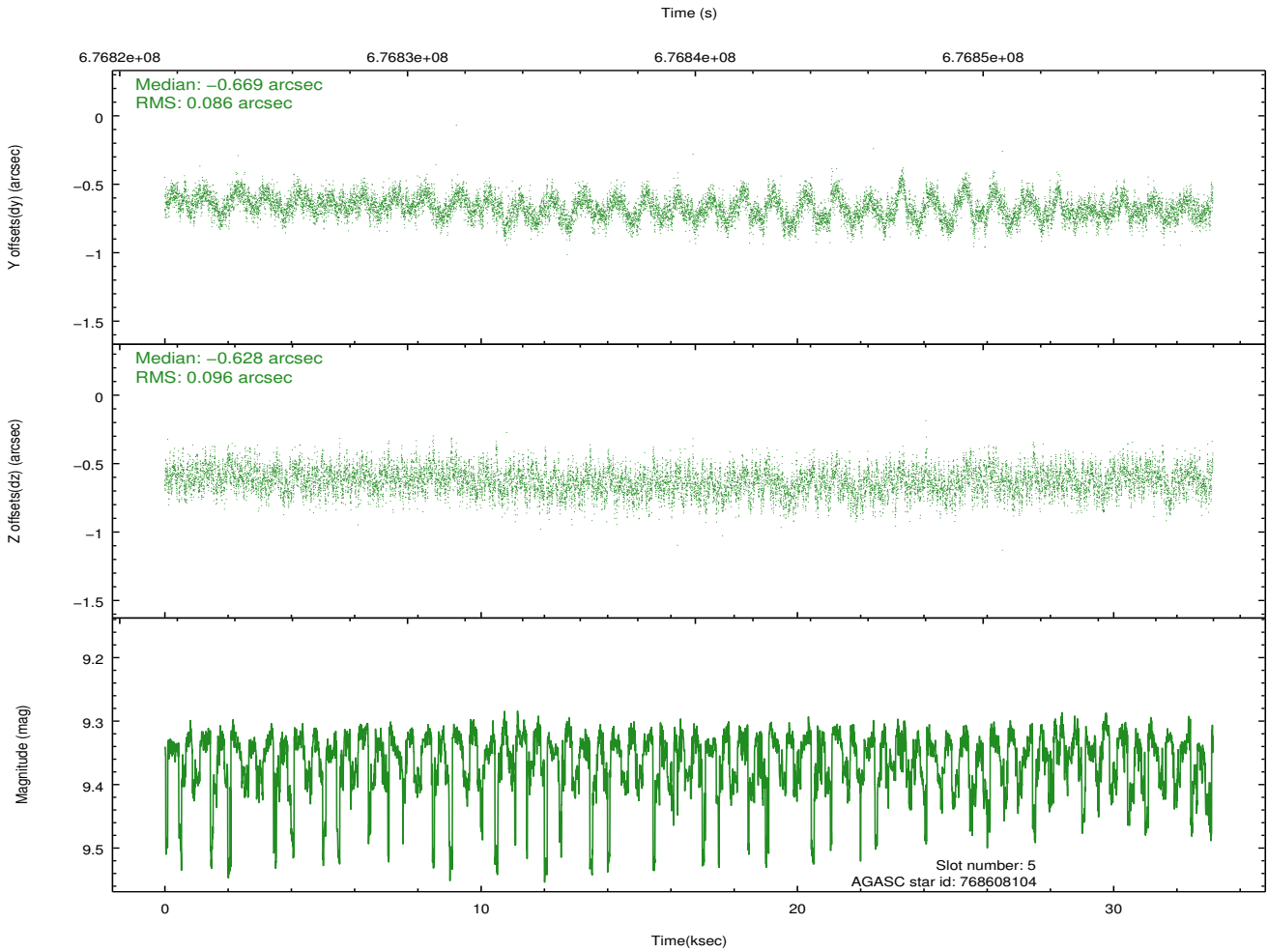
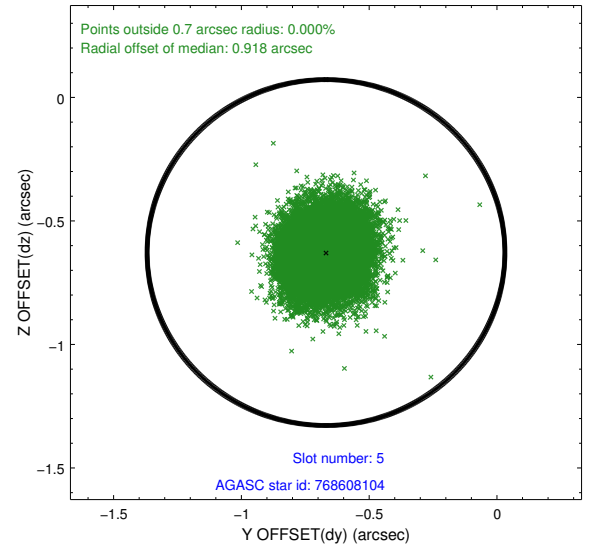
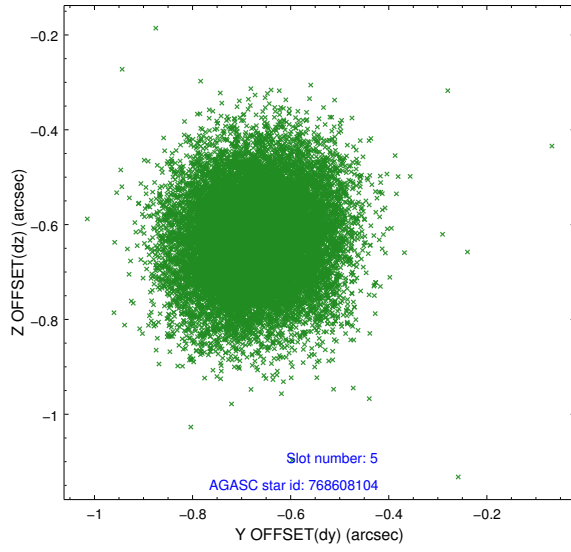
2.4.1 Slot 3



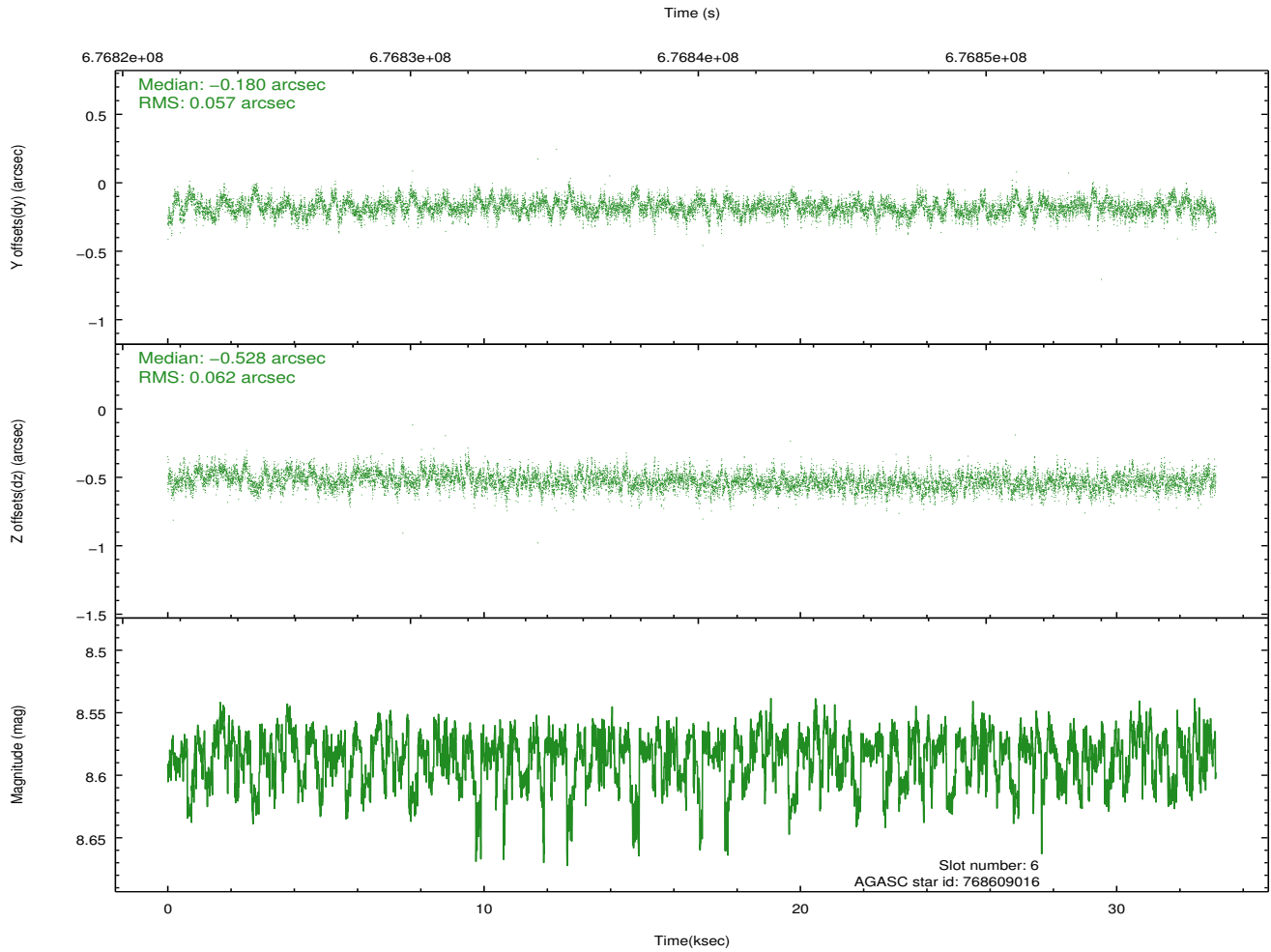
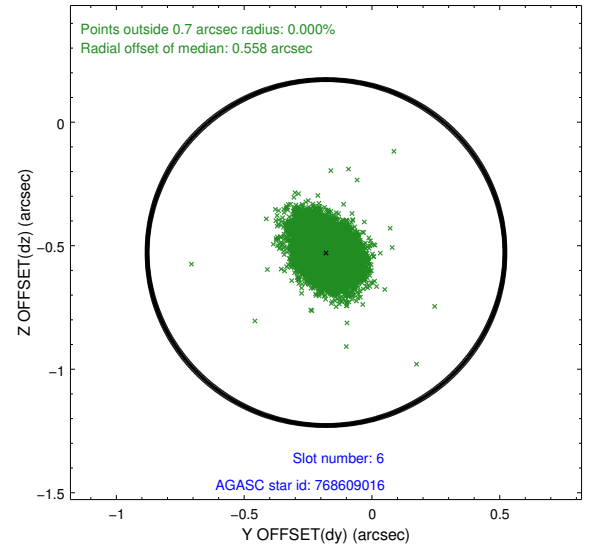
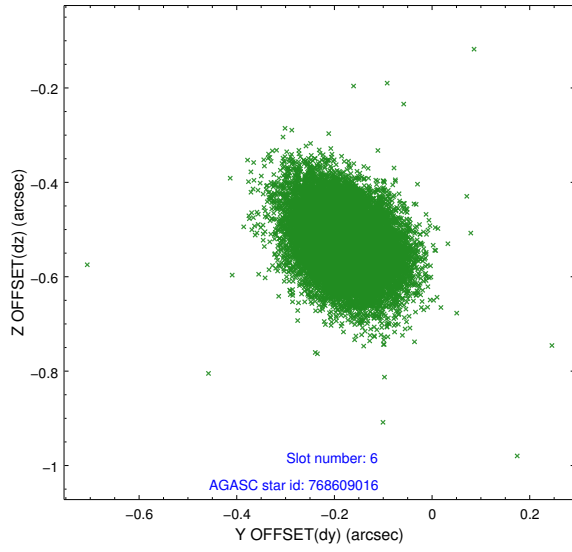
2.4.2 Slot 4



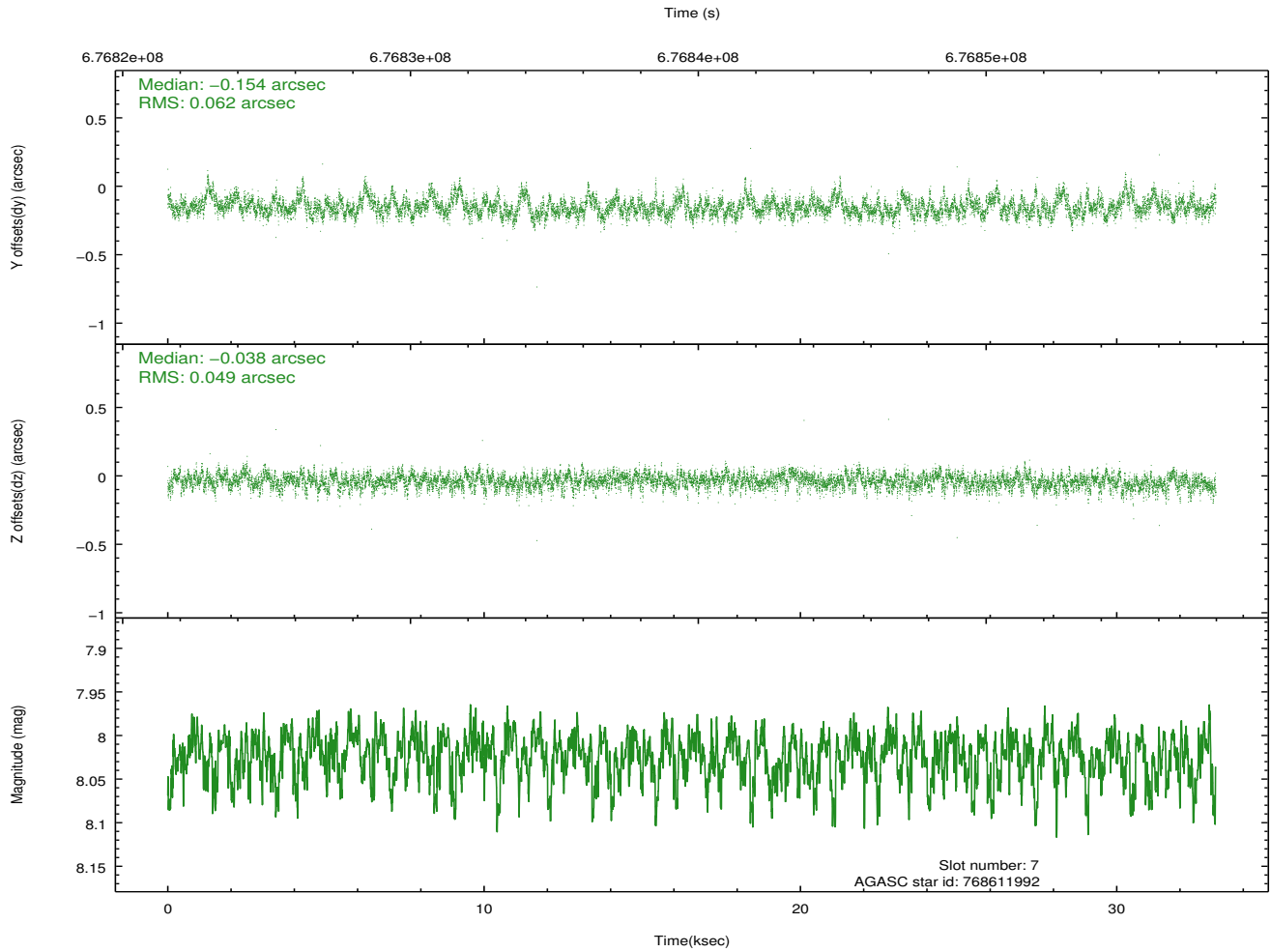
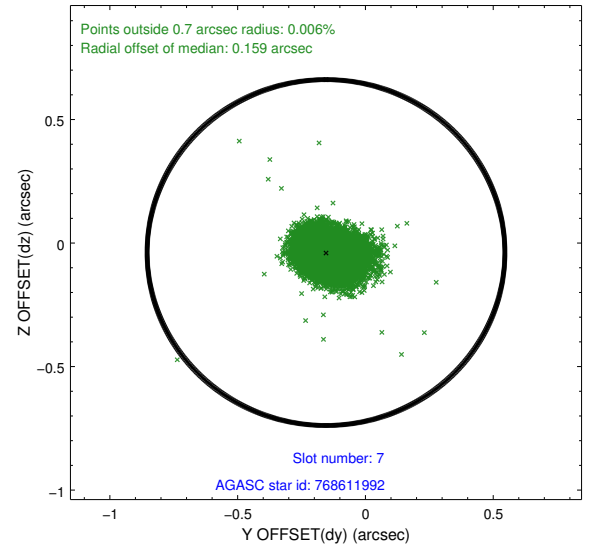
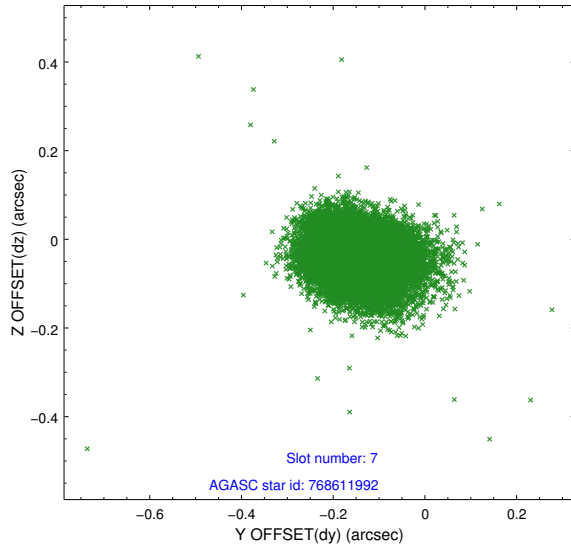
2.4.3 Slot 5



2.4.4 Slot 6

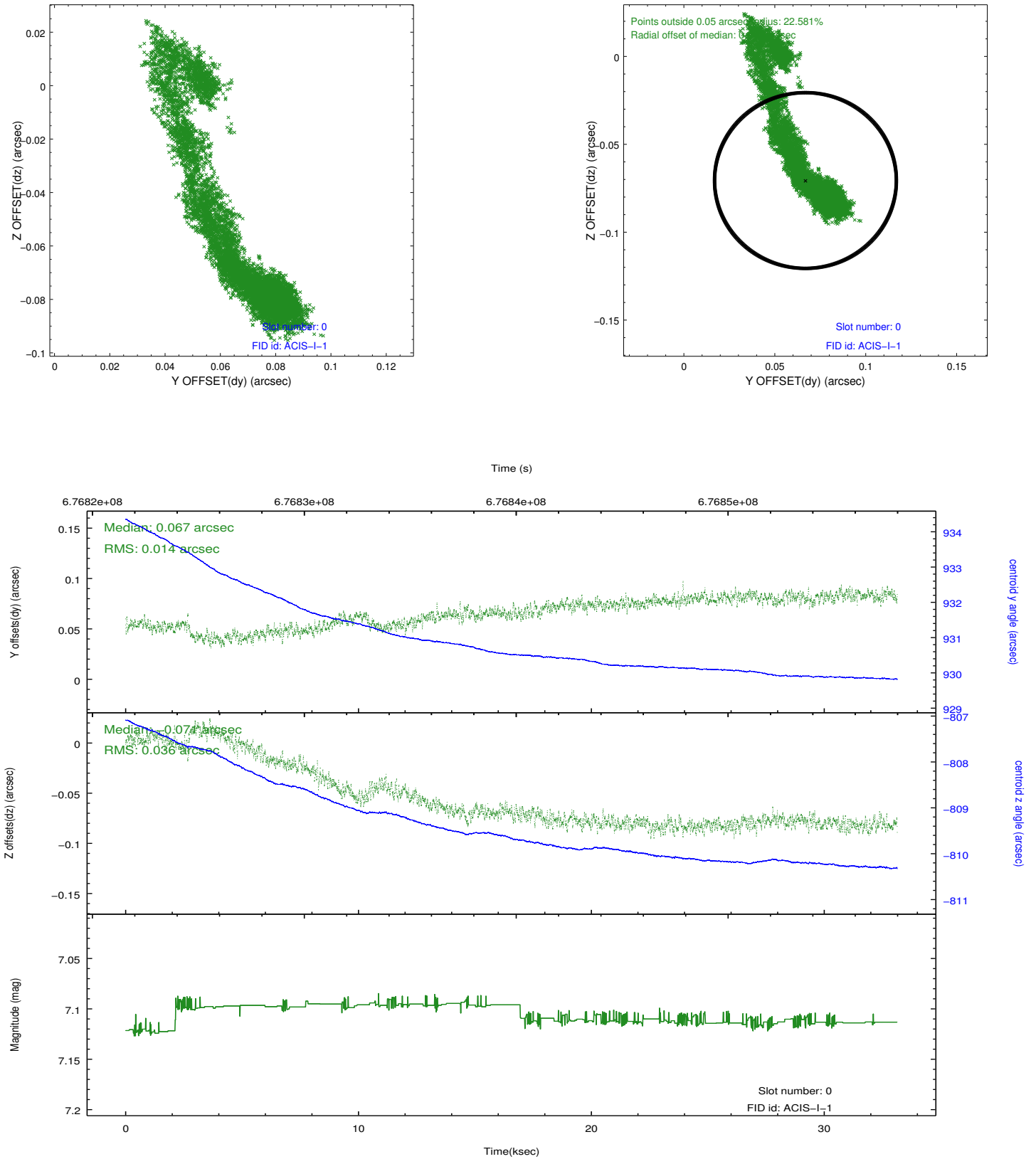


2.4.5 Slot 7

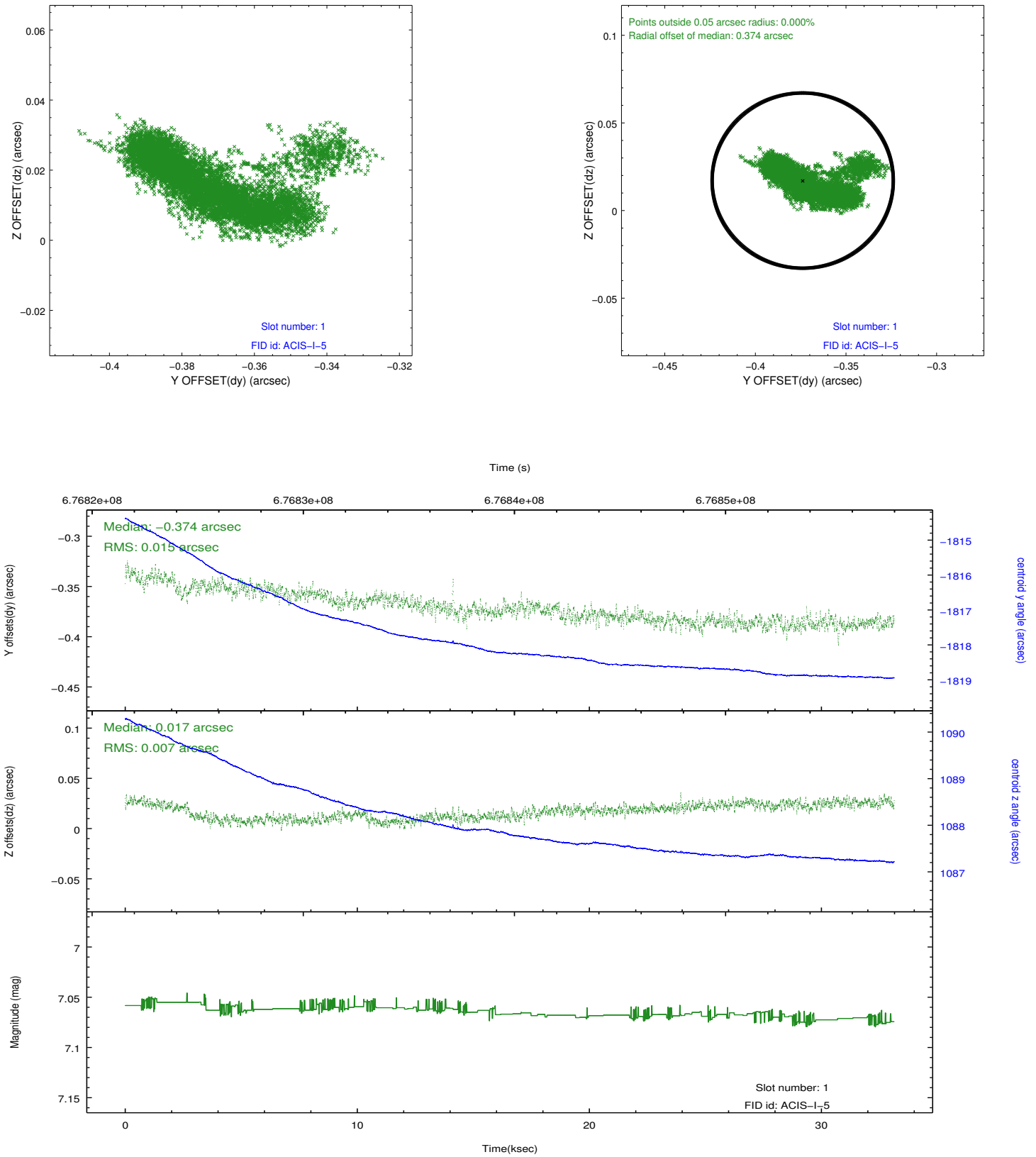


2.5 FID Slots

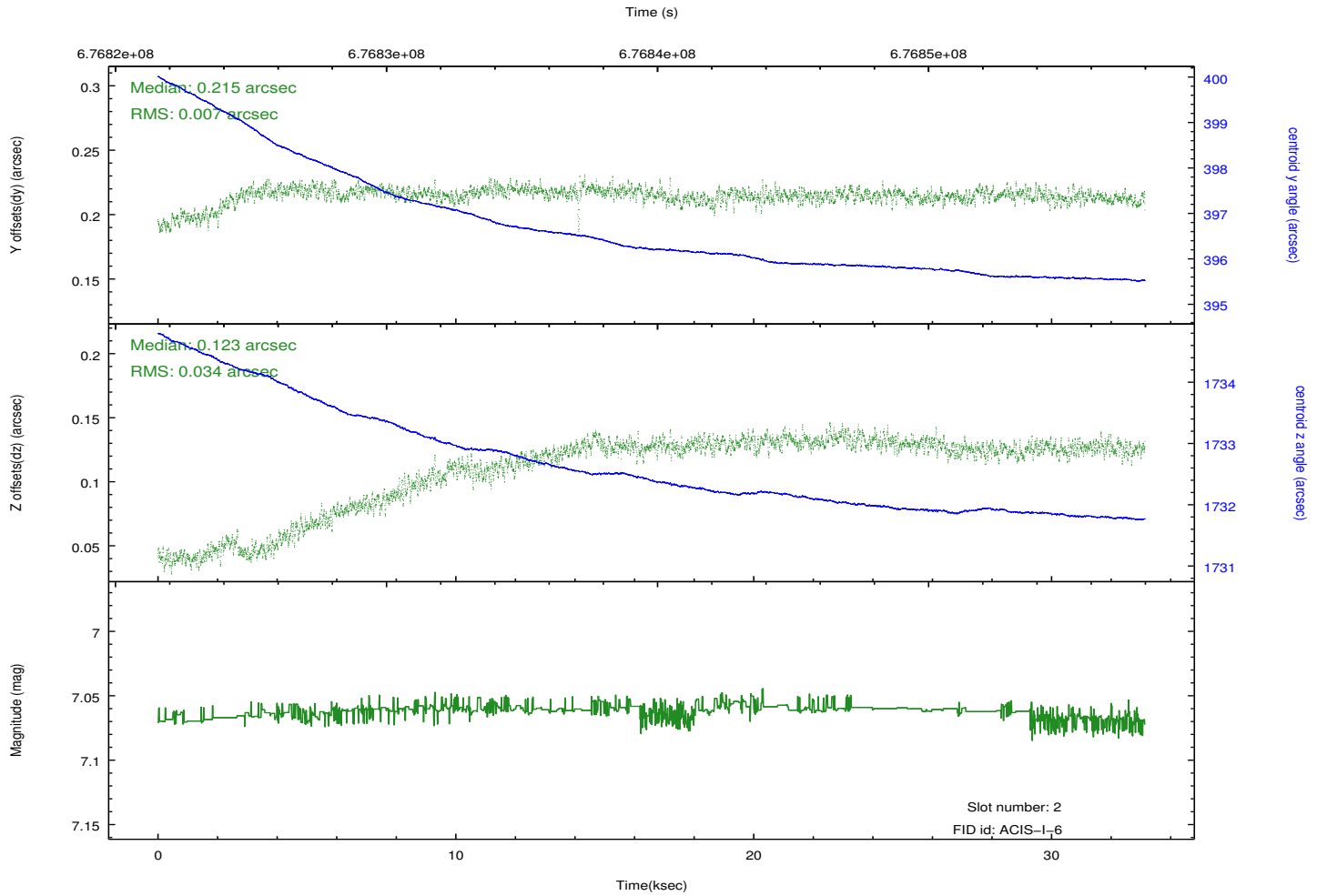
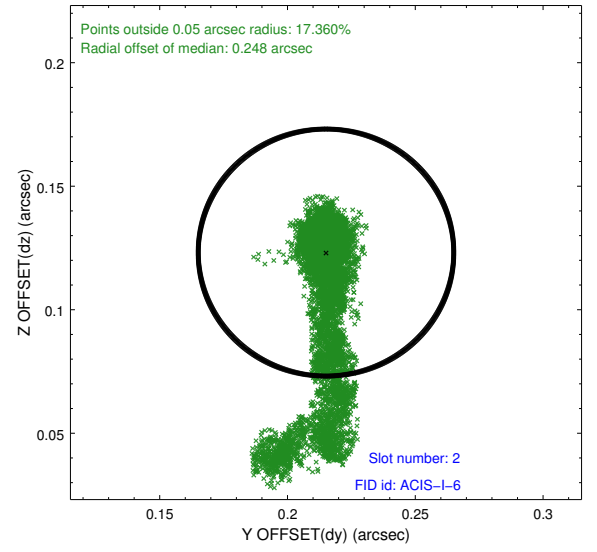
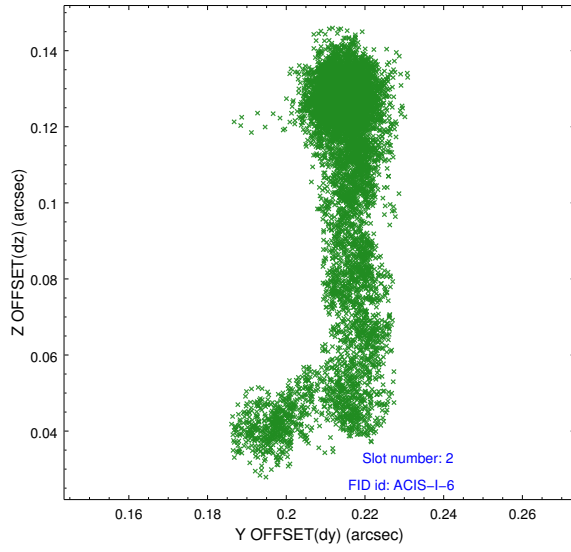
2.5.1 Slot 0



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)	2019.06.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.075613866568

A.2 Comments