

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19632 - L2 Version 2
Chandra X-Ray Center

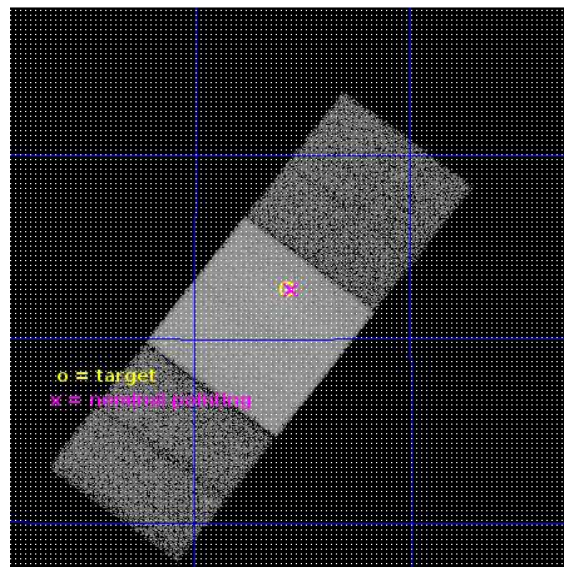
L2 Processing Date : Feb 2 2017

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1 Front

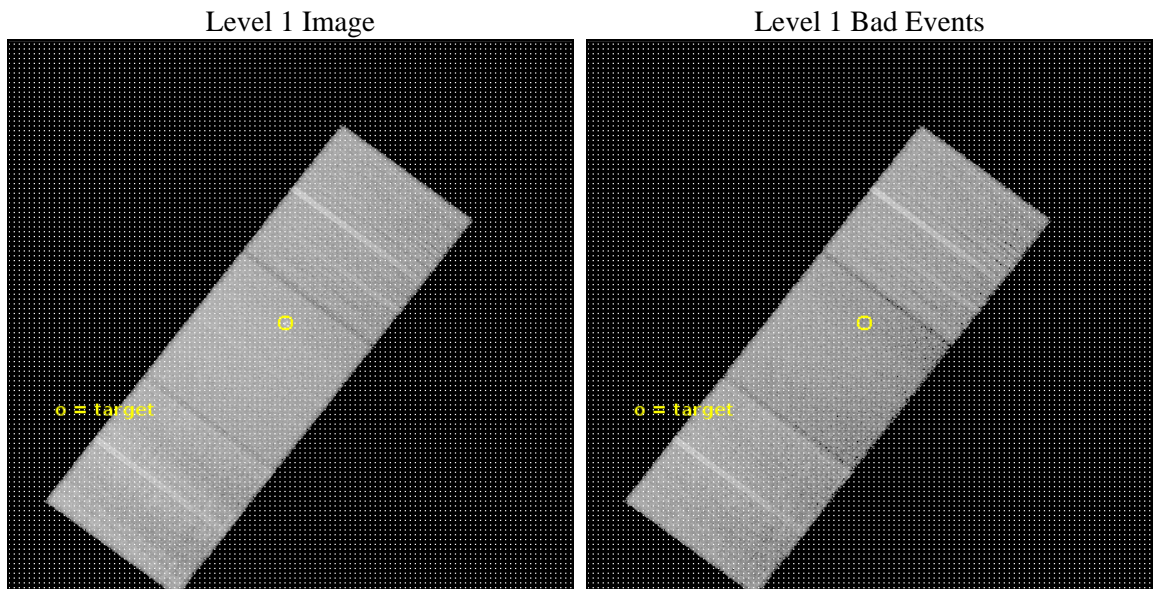
seq_num	703429	Sequence number
obs_id	19632	Observation id
title	MEASURING THE INNERMOST STABLE ORBIT USING MICROLENSING OF THE FE K LINE	Proposal title
observer	George Chartas	Principal investigator
object	SDSS1004+4112	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	151.1425	Observer's specified target RA [deg]
dec_targ	41.212222	Observer's specified target Dec [deg]
ra_nom	151.13797007432	Nominal RA [deg]
dec_nom	41.21151604668	Nominal Dec [deg]
roll_nom	127.07848915702	Nominal Roll [deg]
revision	2	Processing version of data
ontime	40593.823994637	Sum of GTIs [s]
livetime	40063.435799408	Livetime [s]
ontime6	40593.782954693	Sum of GTIs [s]
ontime7	40593.823994637	Sum of GTIs [s]
ontime8	40590.600854516	Sum of GTIs [s]
l2events	210151	Number of level 2 events



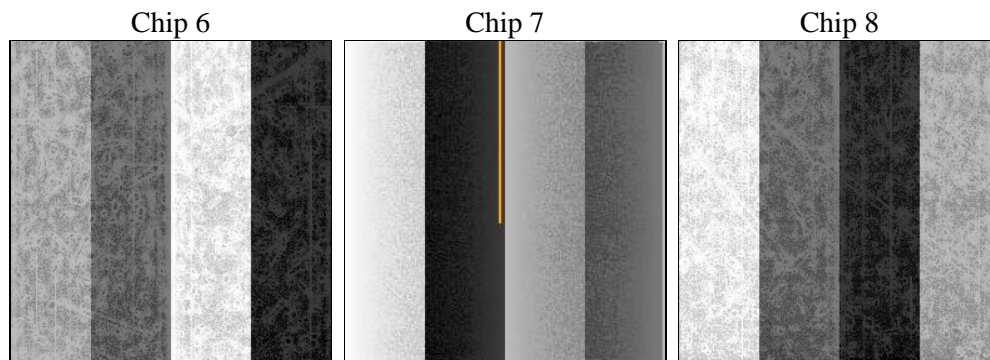
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40486.065000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	40593.823994637	Sum of GTIs [s]
caldsver	4.7.3	 	ontime6	40593.782954693	Sum of GTIs [s]
date	2017-02-02T20:06:06	Date and time of file creation	ontime7	40593.823994637	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	40590.600854516	Sum of GTIs [s]
			l1events	1043283	Number of level 1 events

2.1.4 Events

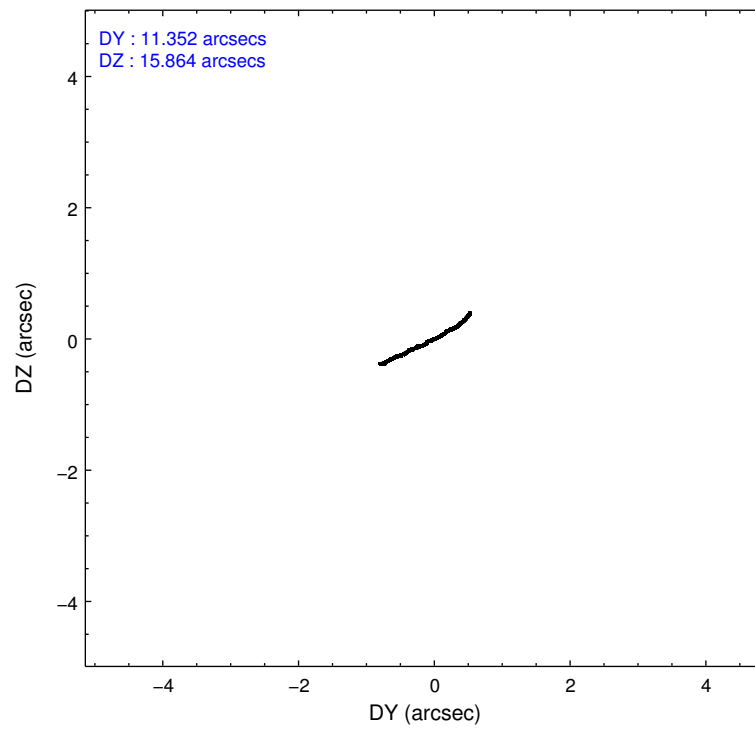
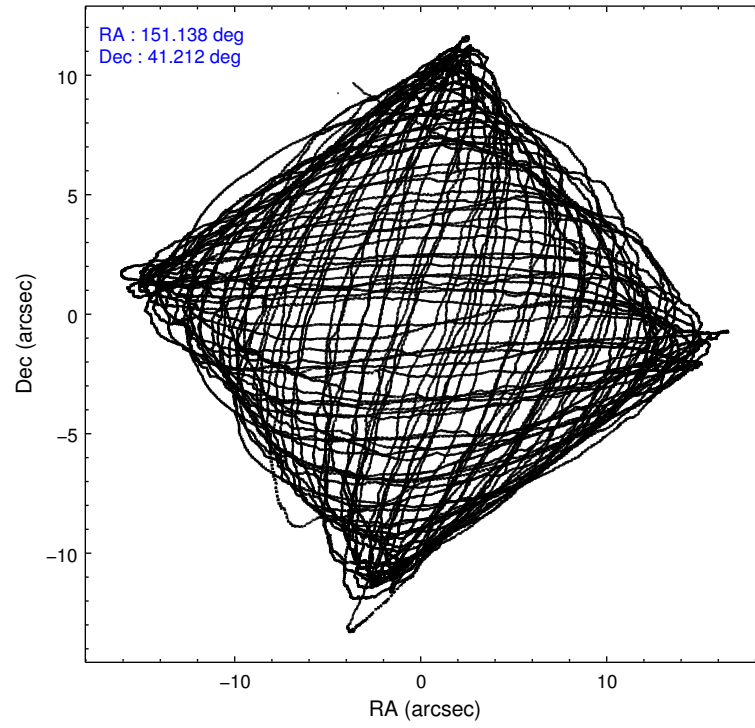
	ccd 6	ccd 7	ccd 8
level 1 events	302954	365900	374429
rejected events	271325	208993	282342
rejected %	89%	57%	75%

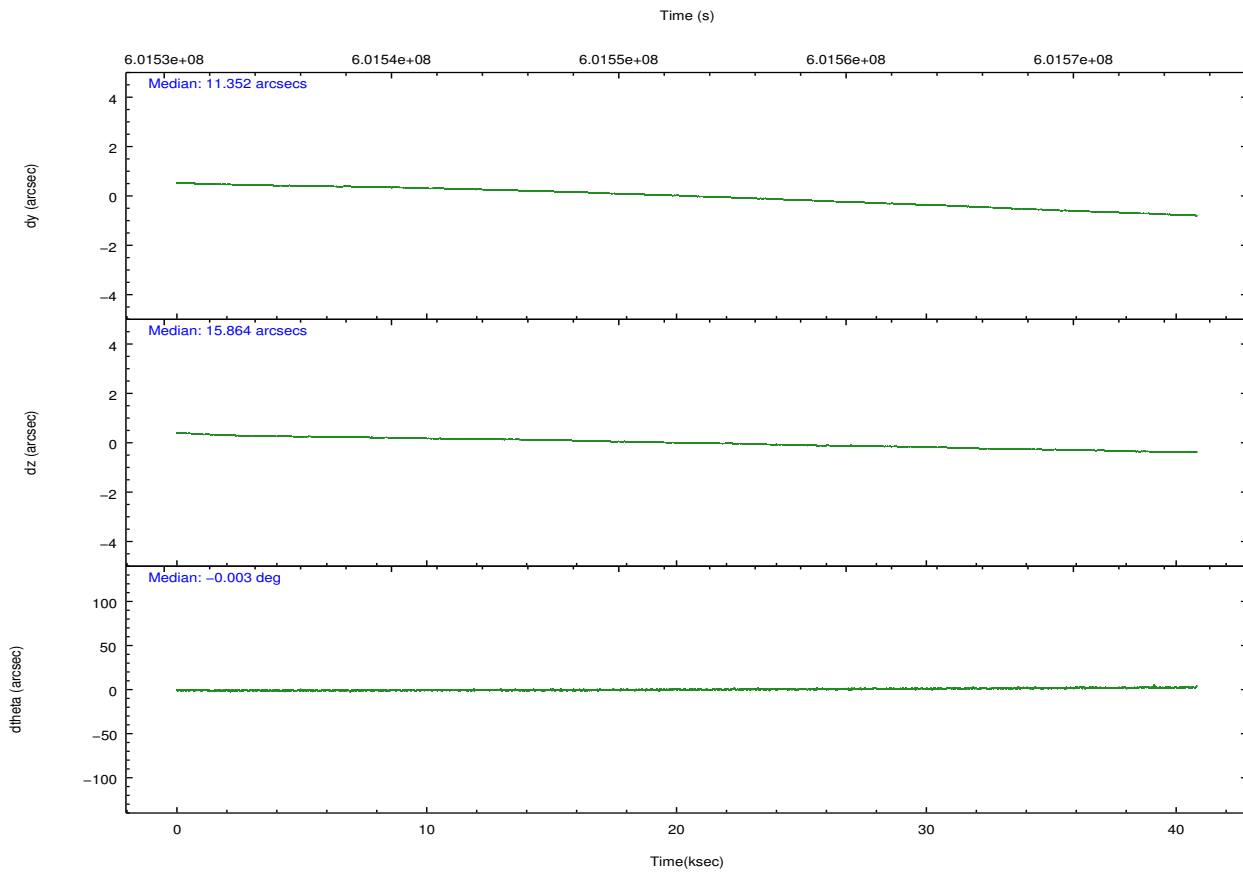
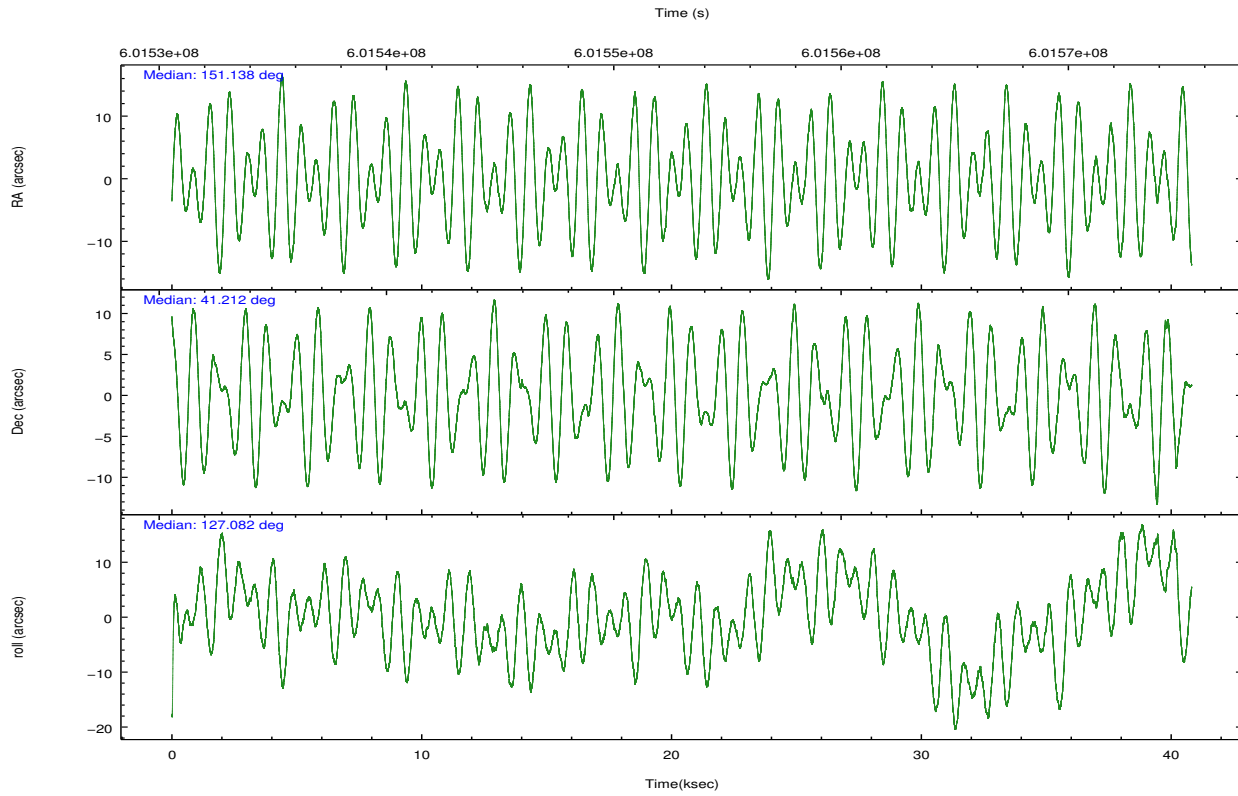
	ccd 6	ccd 7	ccd 8
grade 0 events	9244	12546	25502
	3%	3%	6%
grade 1 events	133	438	271
	0%	0%	0%
grade 2 events	8411	33681	22911
	2%	9%	6%
grade 3 events	2779	11315	9156
	0%	3%	2%
grade 4 events	2738	10989	8610
	0%	3%	2%
grade 5 events	11989	33613	19268
	3%	9%	5%
grade 6 events	8461	88384	25911
	2%	24%	6%
grade 7 events	259199	174934	262800
	85%	47%	70%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	151.171743	151.1379700743227	CCD I2 on	O1	N
[deg] Pointing Dec	41.201169	41.21151604668	CCD I3 on	O2	N
[deg] Pointing Roll	126.899611	127.0784891570246	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	O4	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	O3	Y
[s] Observation start time (MET)	601532910.184000	601531996.02429	CCD S5 on	N	N
Observation start date	2017-01-23T04:27:21	2017-01-23T04:13:16	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	601573396.184000	601573624.3516999	On-chip summing requested	N	N
Observation end date	2017-01-23T15:42:07	2017-01-23T15:47:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



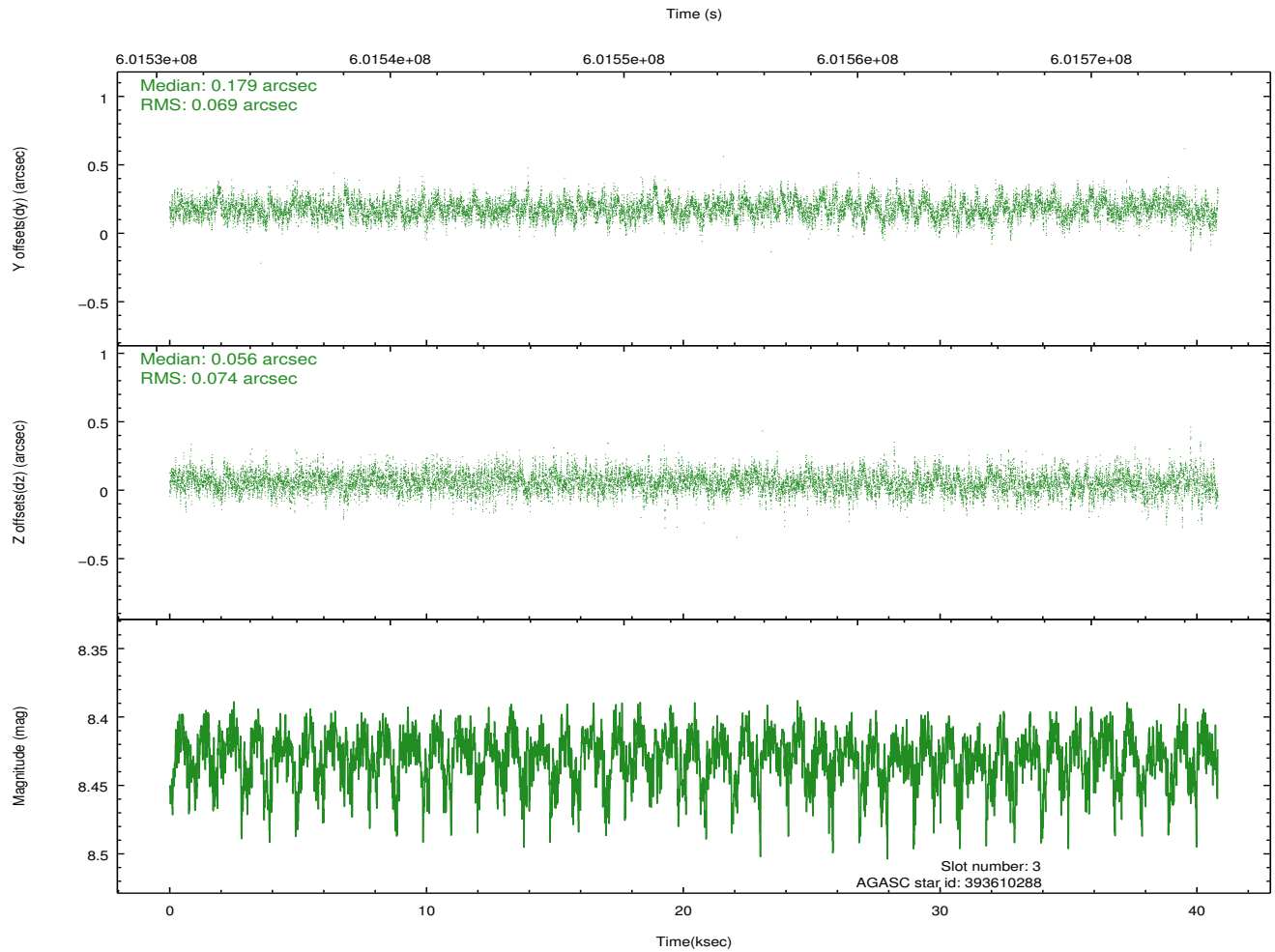
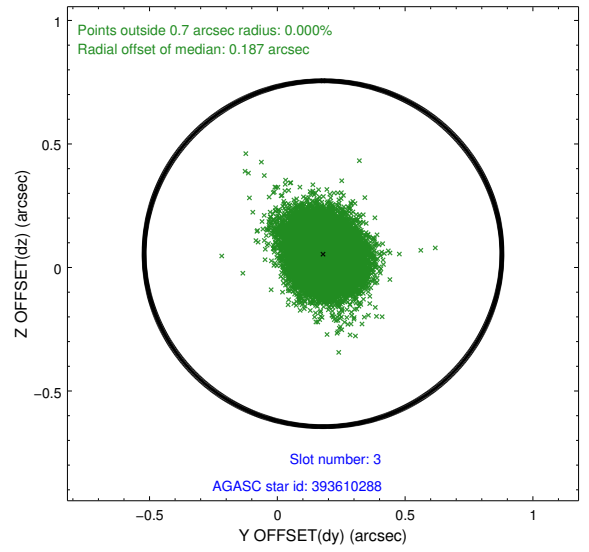
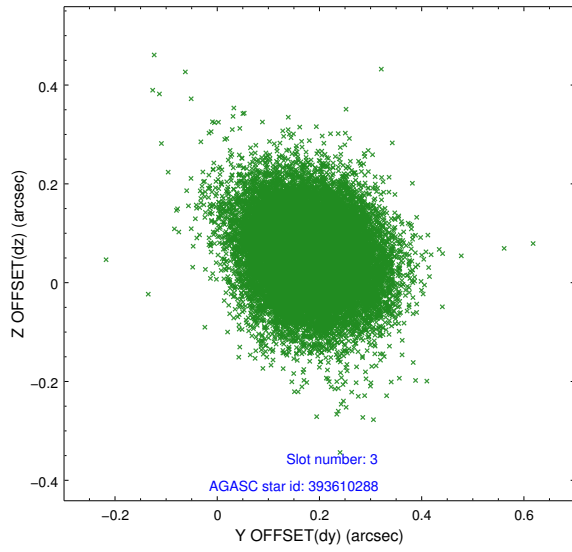


Slot Statistics

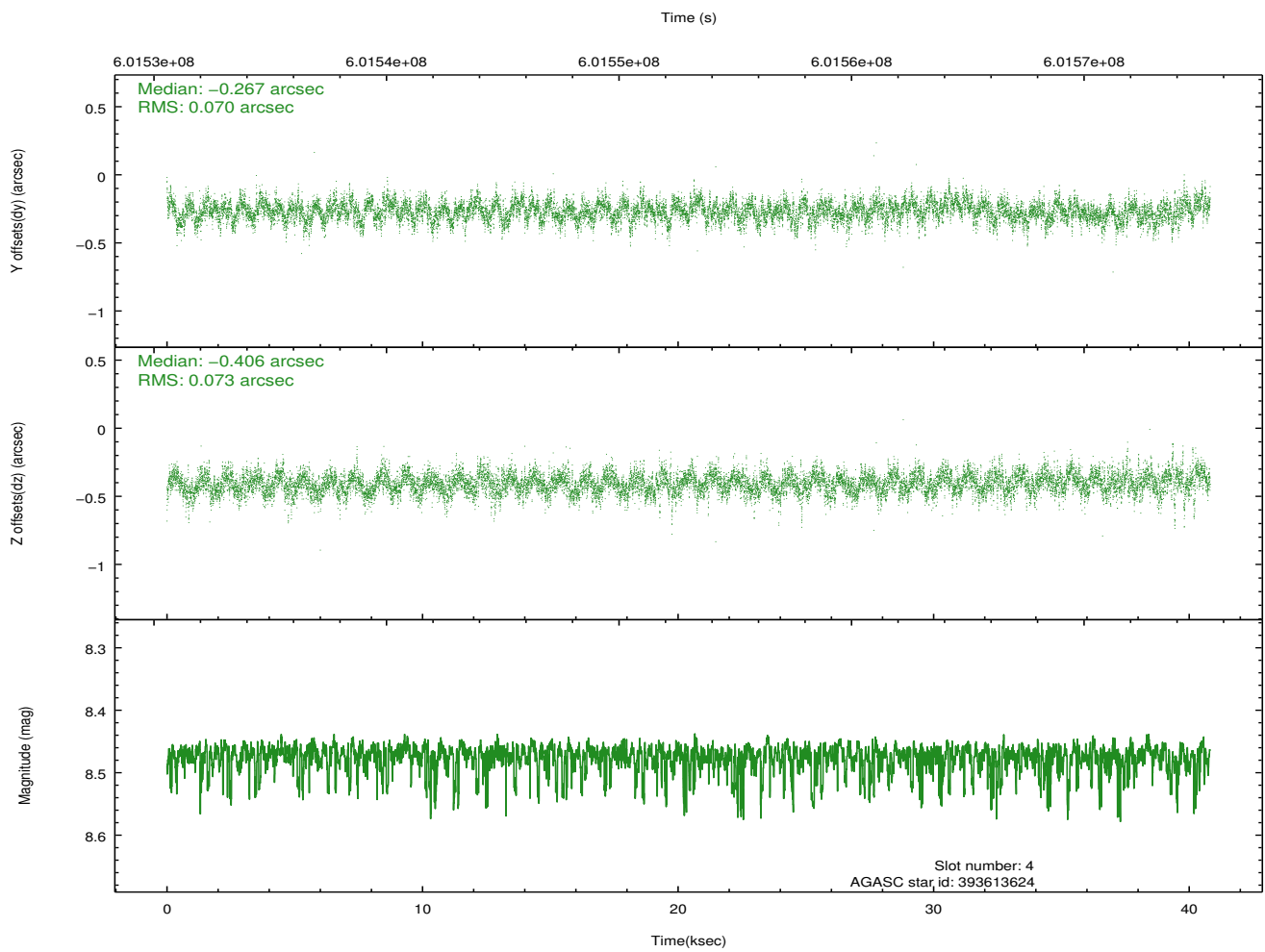
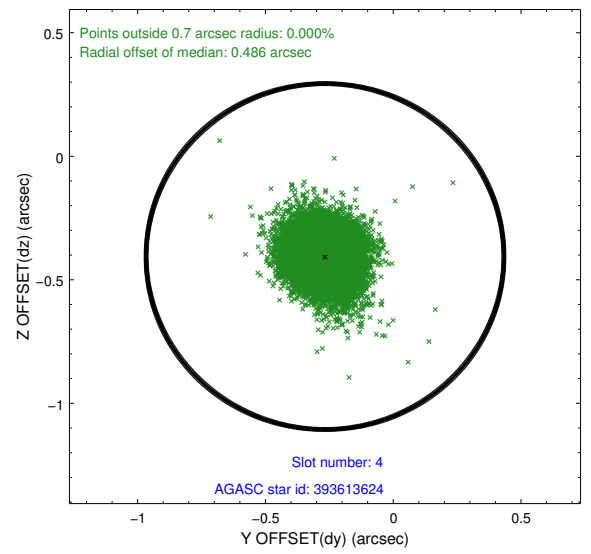
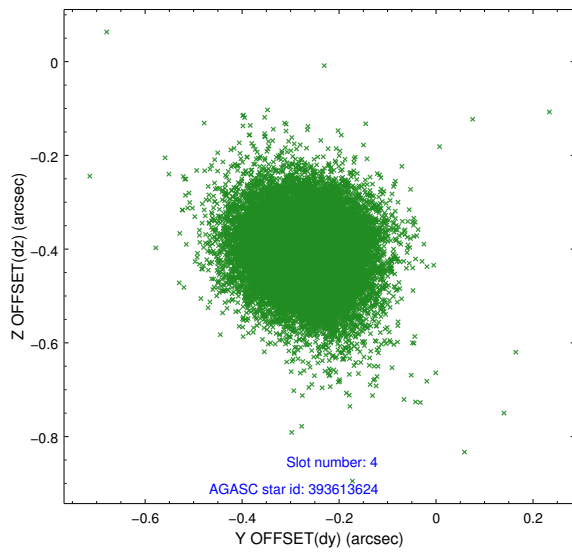
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.17	9956	-0.208	-0.125	0.008	0.016	0.000000	0.000000	-764.40	-1737.37
1	FID		ACIS-S-4	7.30	9956	0.263	0.113	0.012	0.018	0.000000	0.000000	2149.37	171.30
2	FID		ACIS-S-6	7.43	9954	-0.083	0.018	0.015	0.022	0.000000	0.000000	397.76	808.64
3	GUIDE	used	393610288	8.43	19903	0.179	0.056	0.107	0.176	151.538899	41.090404	-914.22	-556.86
4	GUIDE	used	393613624	8.47	19901	-0.267	-0.406	0.107	0.174	151.136661	40.665270	-1485.39	1234.57
5	GUIDE	used	393616408	8.99	19887	-0.097	-0.120	0.125	0.205	150.713966	41.346840	1164.80	672.37
6	GUIDE	used	393616688	8.97	19894	0.216	0.310	0.117	0.191	151.530834	40.712712	-1992.52	271.41
7	GUIDE	used	393616816	8.40	19906	-0.033	0.156	0.104	0.178	151.562975	40.925077	-1431.20	-254.04

2.4 Star Slots

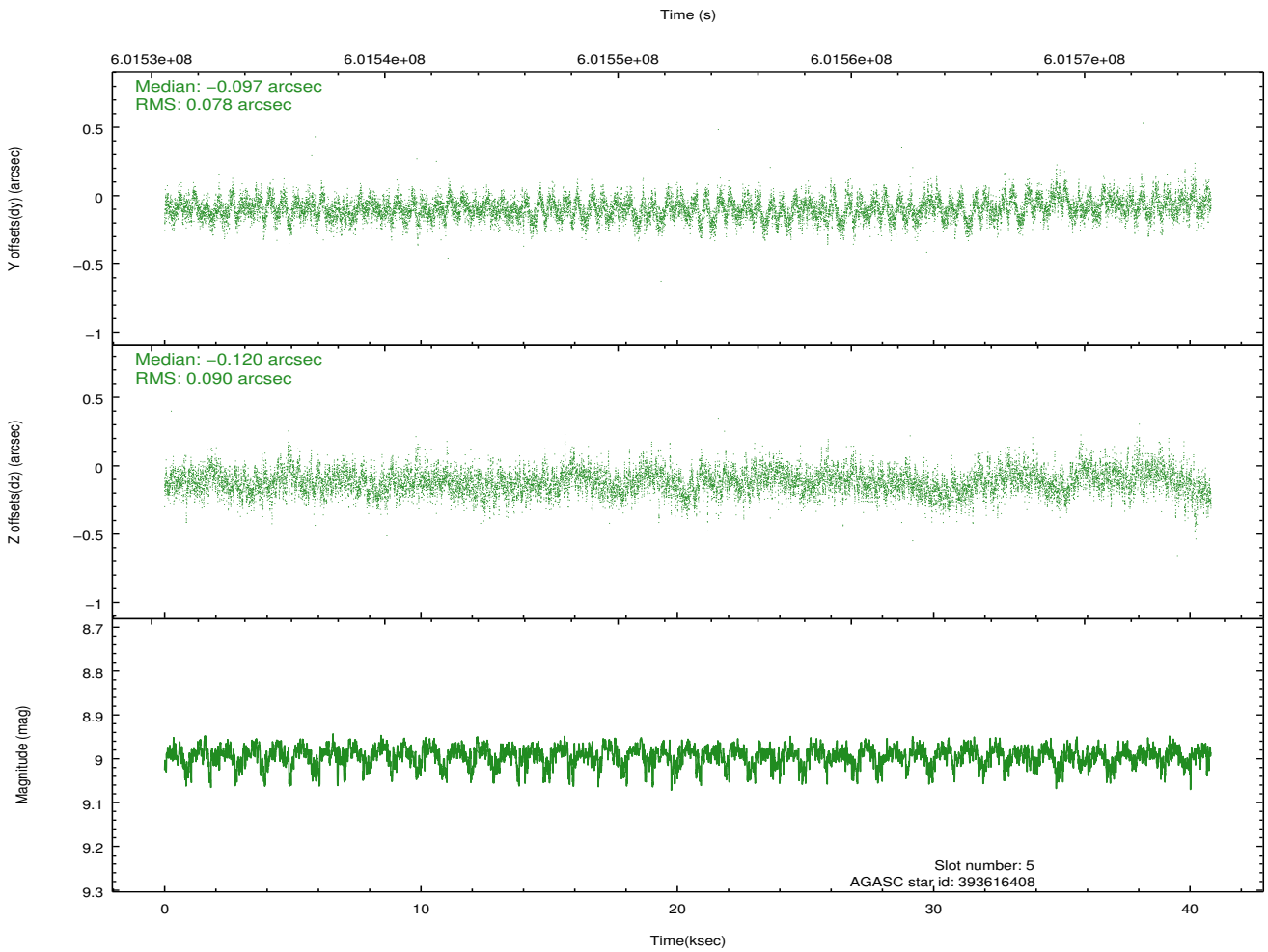
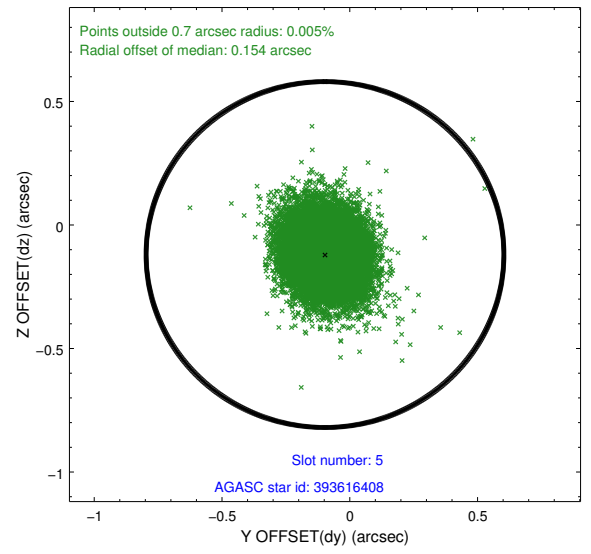
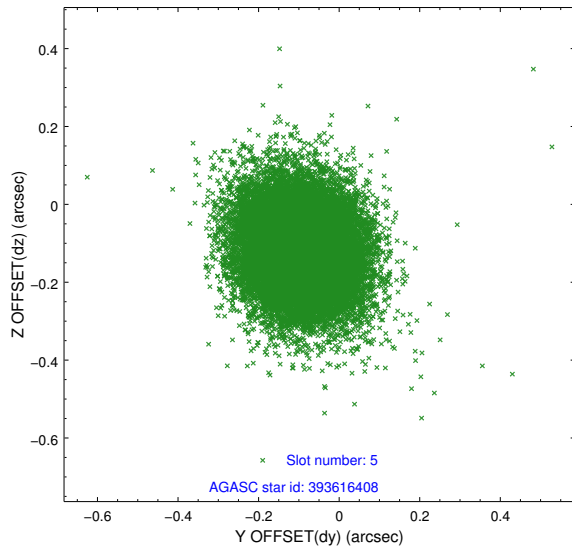
2.4.1 Slot 3



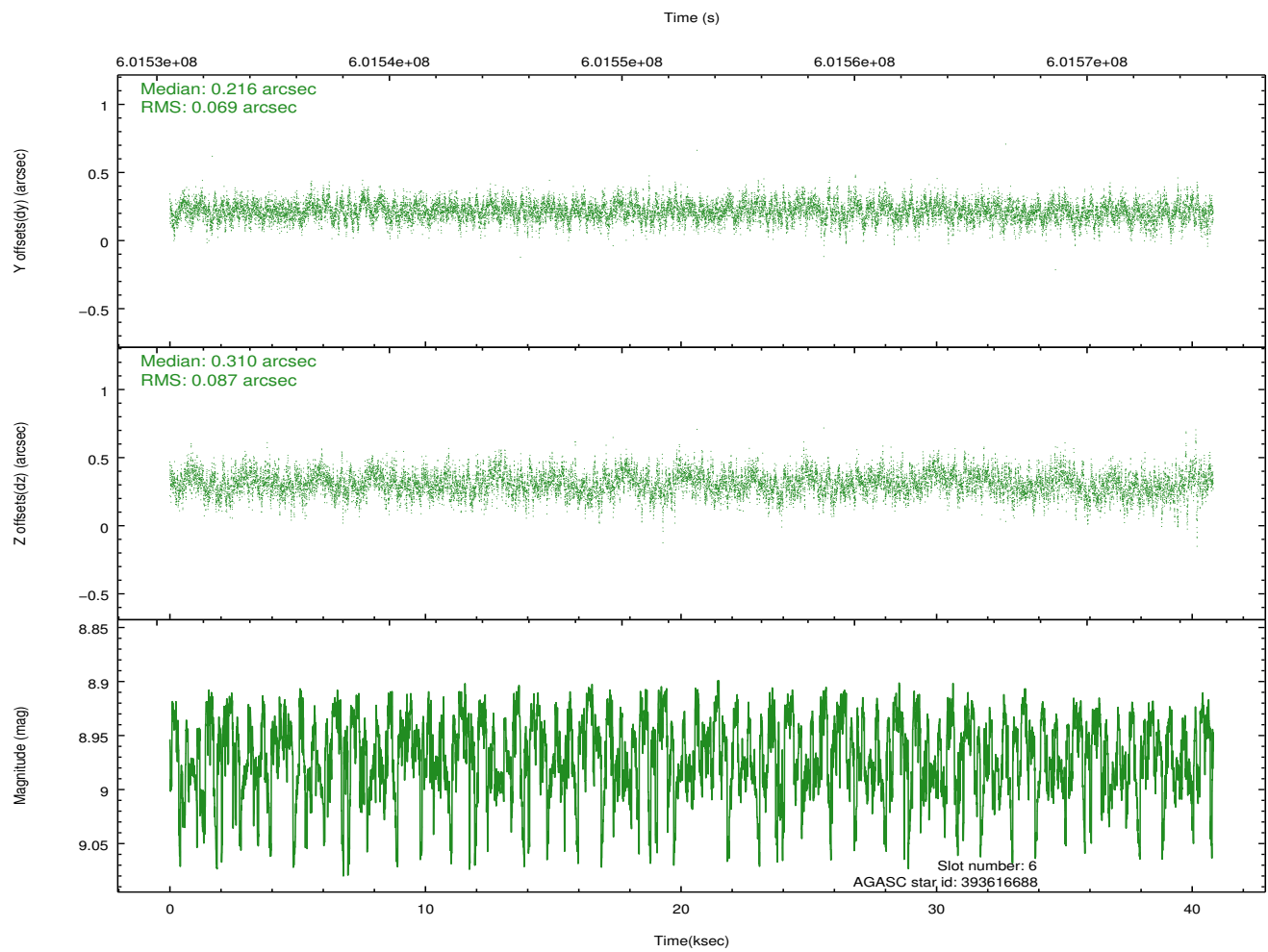
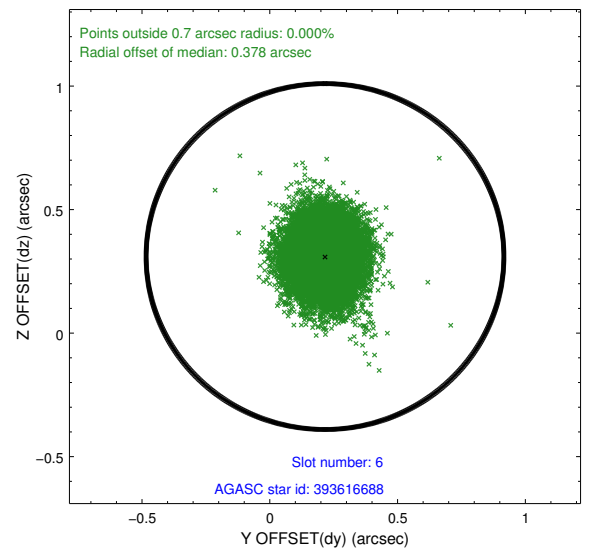
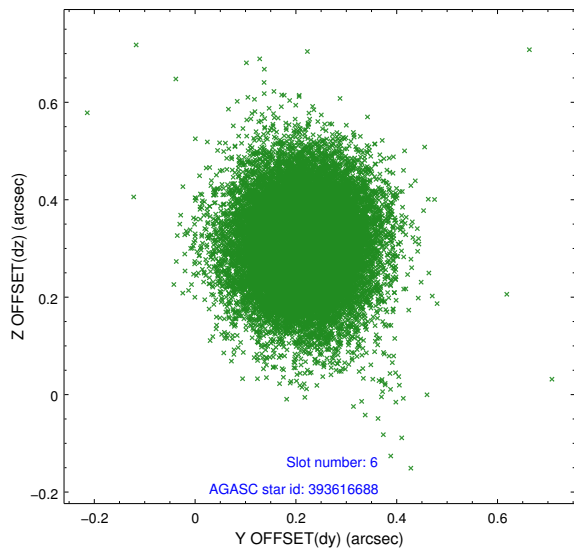
2.4.2 Slot 4



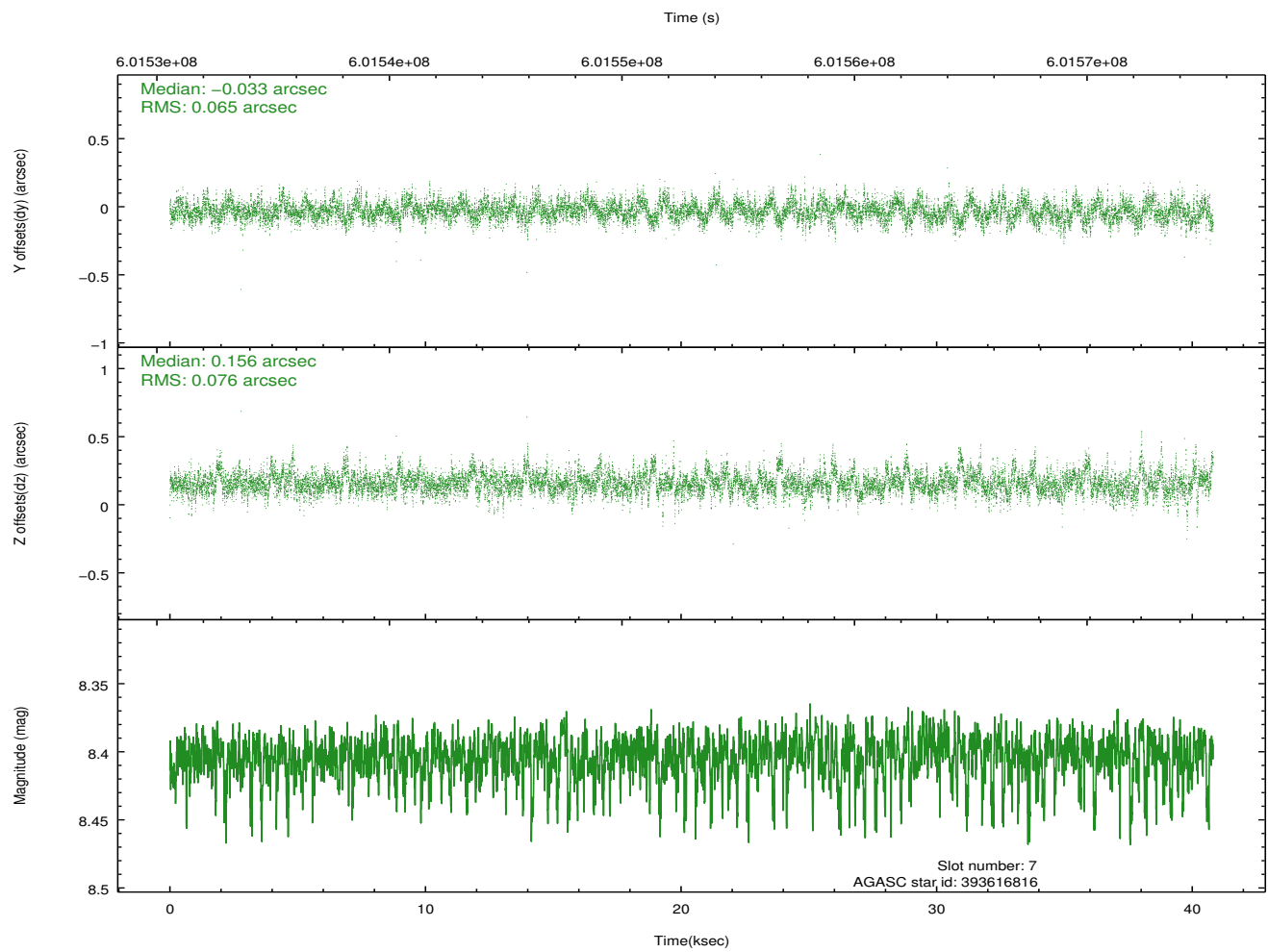
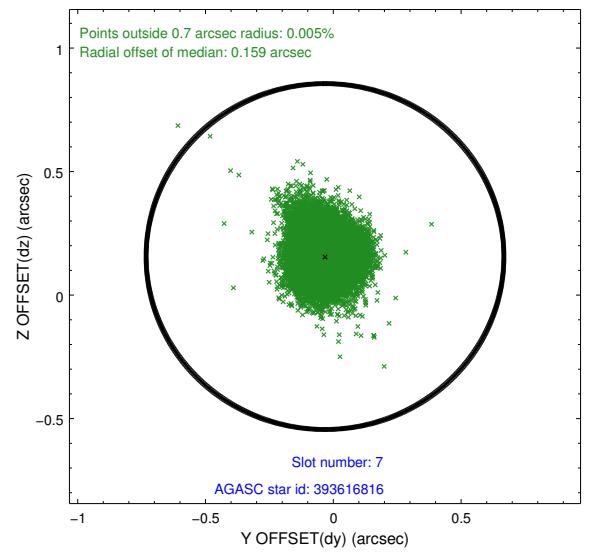
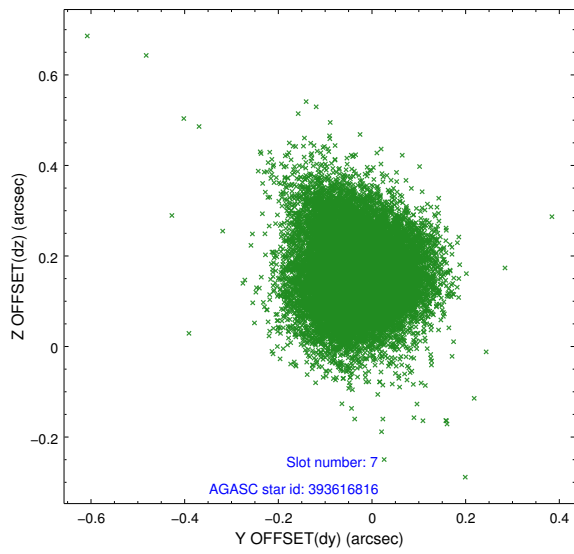
2.4.3 Slot 5



2.4.4 Slot 6

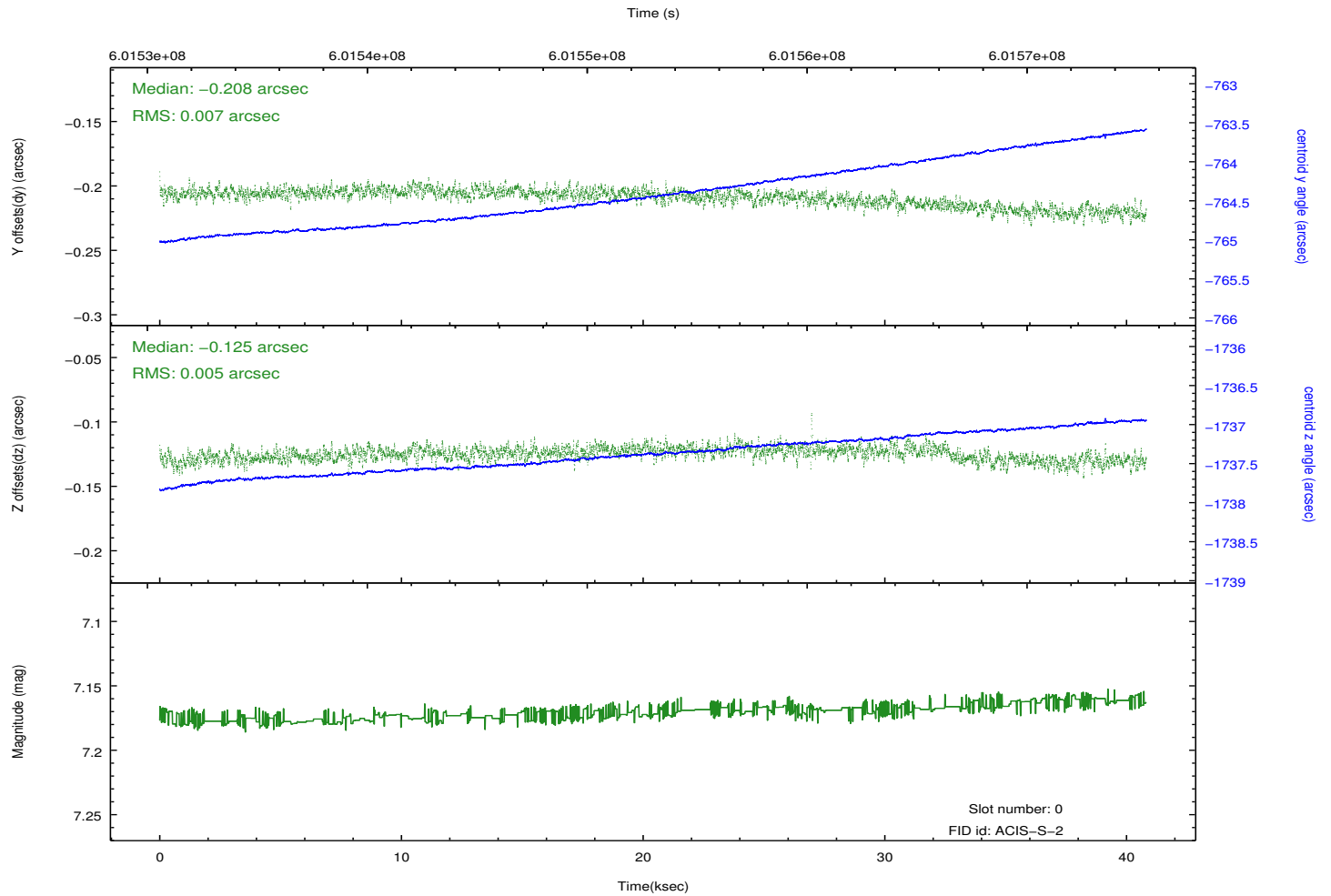
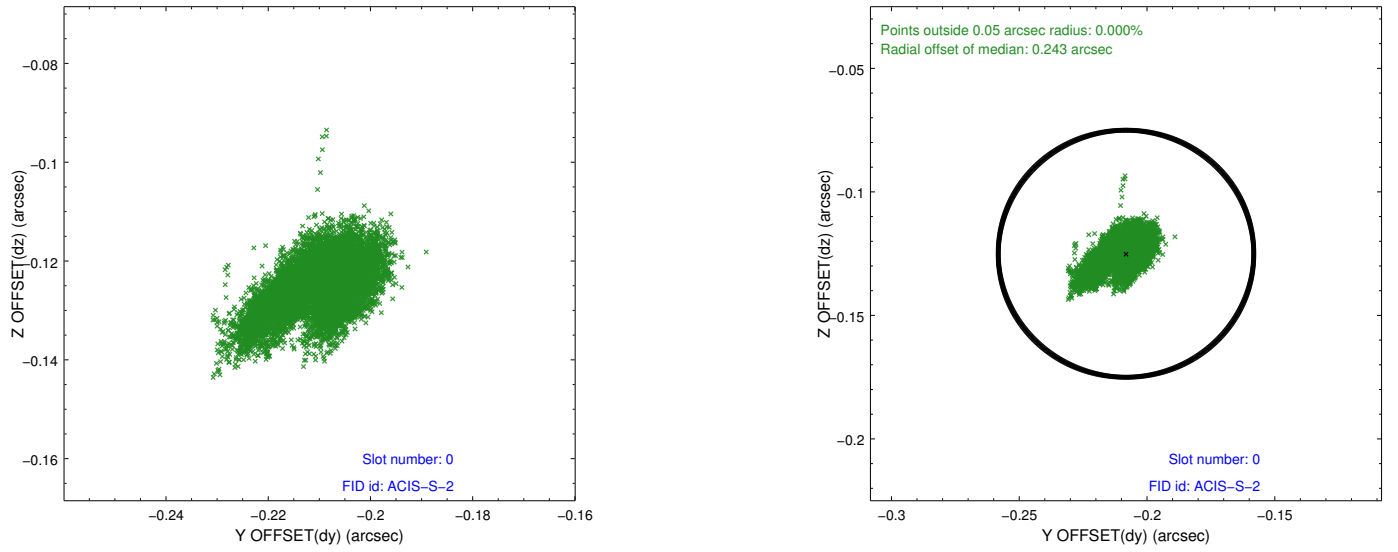


2.4.5 Slot 7

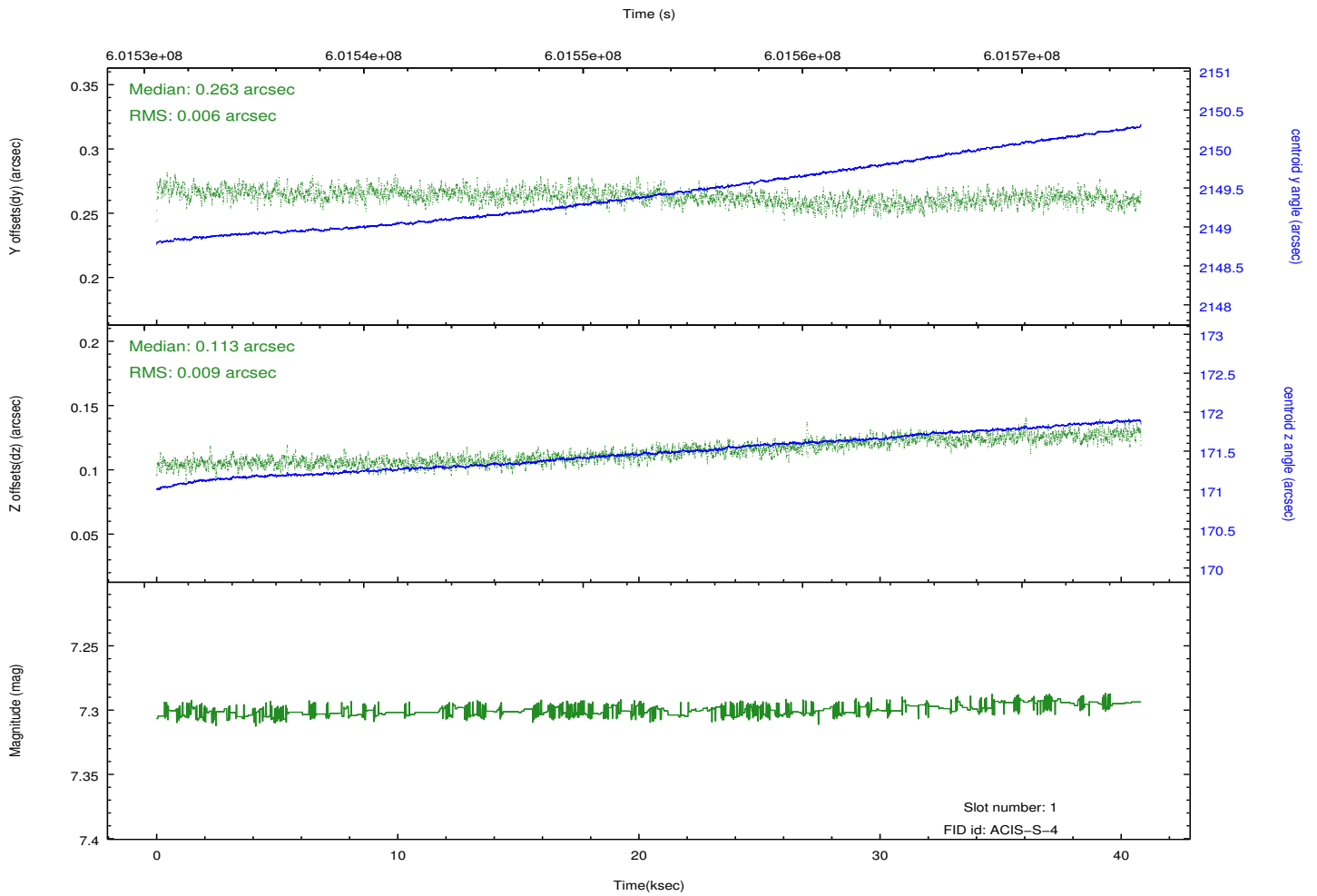
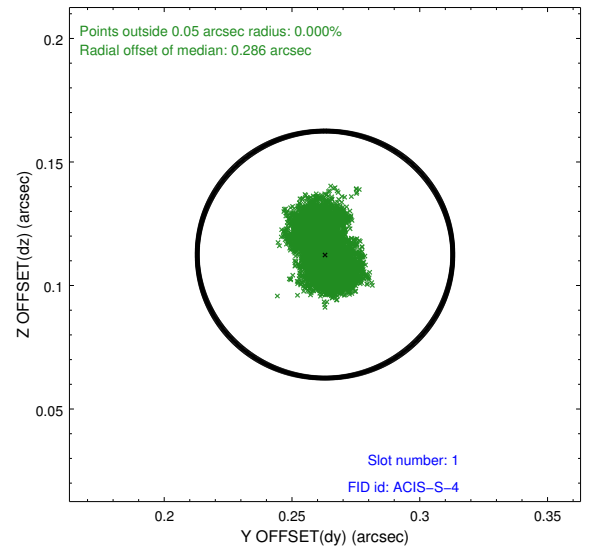
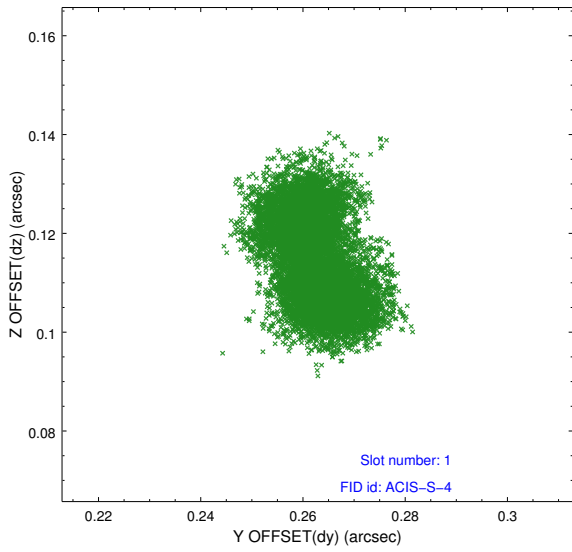


2.5 FID Slots

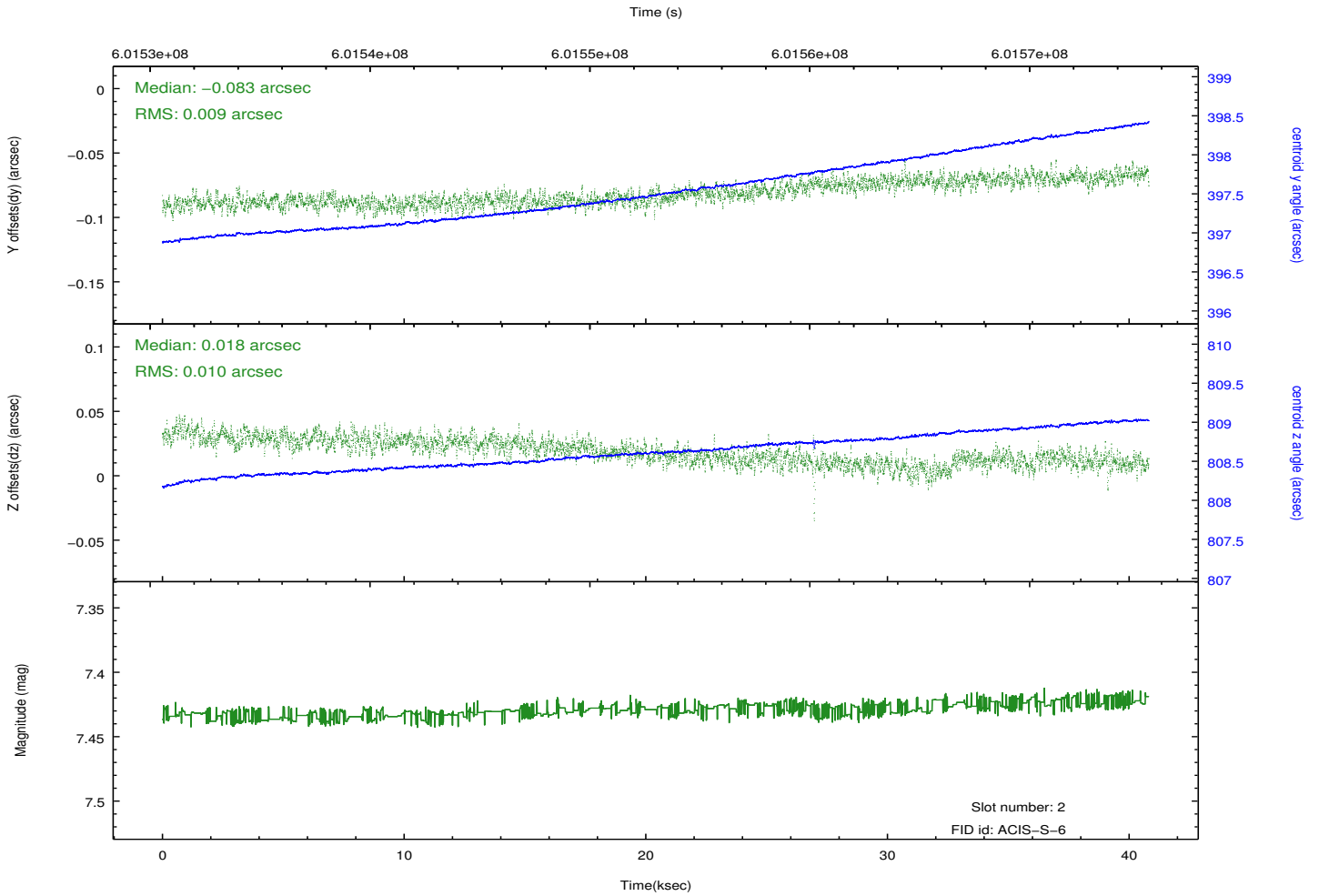
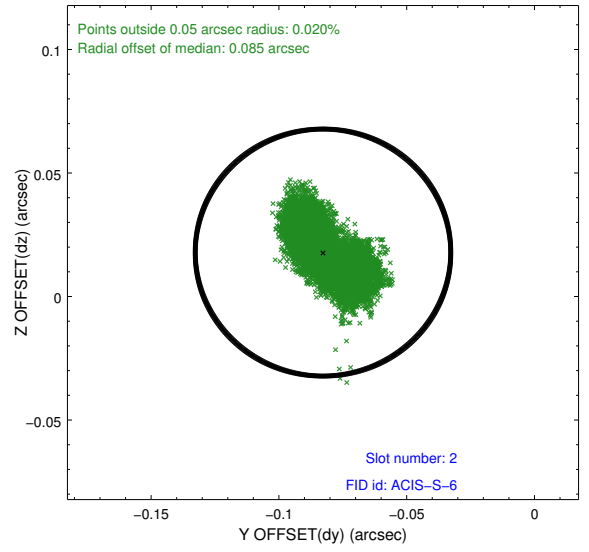
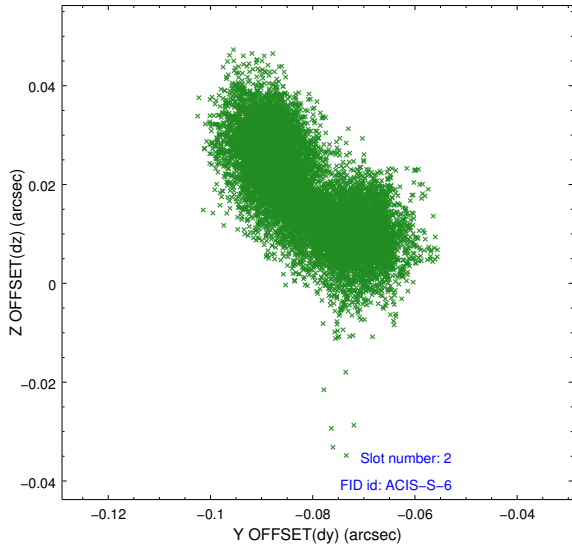
2.5.1 Slot 0



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)	2017.02.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.593823990941

A.2 Comments