

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19499 - L2 Version 1
Chandra X-Ray Center

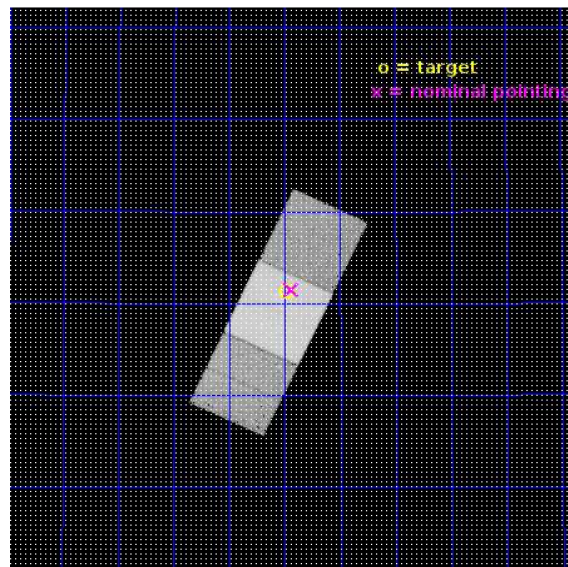
L2 Processing Date : Dec 30 2016

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1 Front

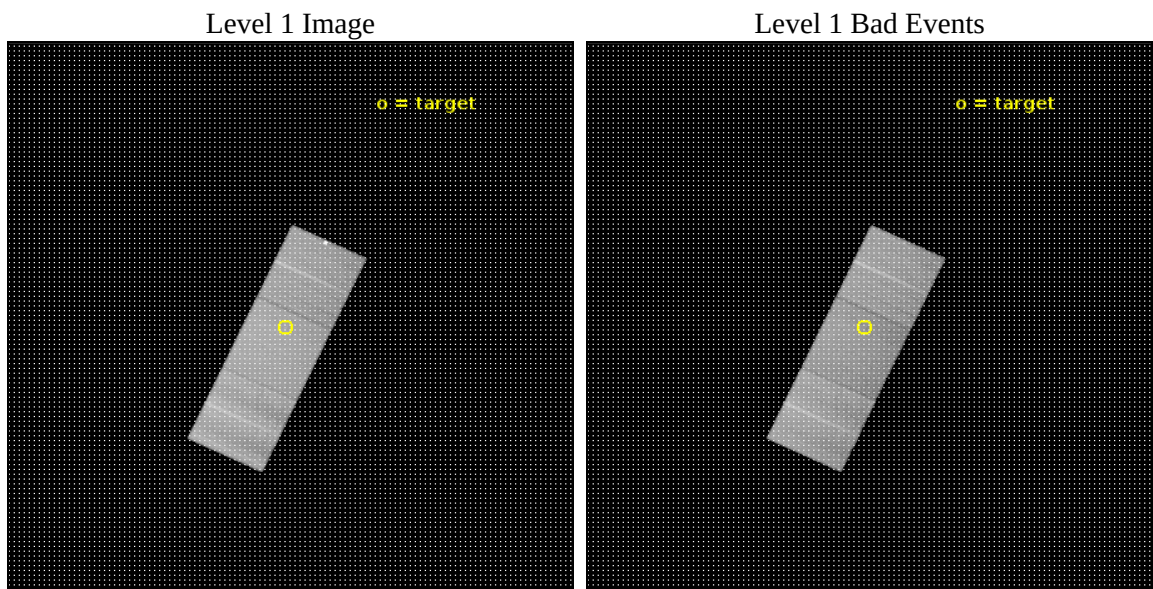
seq_num	703347	Sequence number
obs_id	19499	Observation id
title	A quadruple quasar coincident with a giant Ly-alpha nebula and a protocluster at z=2	Proposal title
observer	Cristian Vignali	Principal investigator
object	SDSSJ084158.47+392121.0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	130.49375	Observer's specified target RA [deg]
dec_targ	39.355833	Observer's specified target Dec [deg]
ra_nom	130.48521413017	Nominal RA [deg]
dec_nom	39.358362354372	Nominal Dec [deg]
roll_nom	115.16204786777	Nominal Roll [deg]
revision	1	Processing version of data
ontime	42113.500324011	Sum of GTIs [s]
livetime	41563.25643877	Livetime [s]
ontime6	42110.359263778	Sum of GTIs [s]
ontime7	42113.500324011	Sum of GTIs [s]
ontime8	42110.359273553	Sum of GTIs [s]
l2events	219373	Number of level 2 events



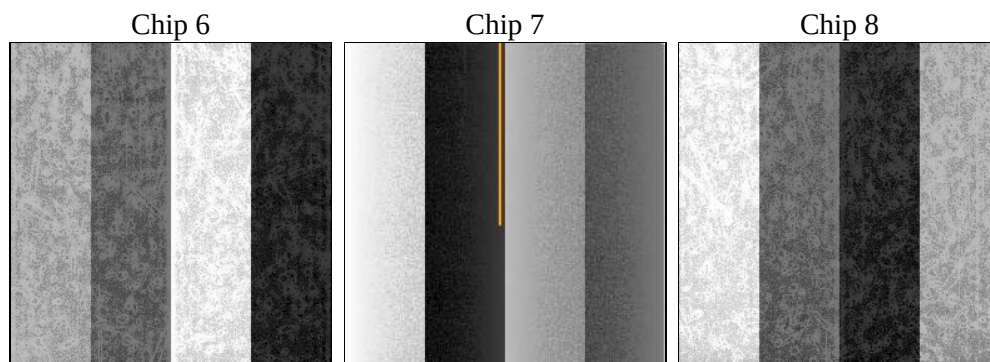
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	42000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	42113.500324011	Sum of GTIs [s]
caldsver	4.7.3	 	ontime6	42110.359263778	Sum of GTIs [s]
date	2016-12-30T11:50:20	Date and time of file creation	ontime7	42113.500324011	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	42110.359273553	Sum of GTIs [s]
			l1events	1053534	Number of level 1 events

2.1.4 Events

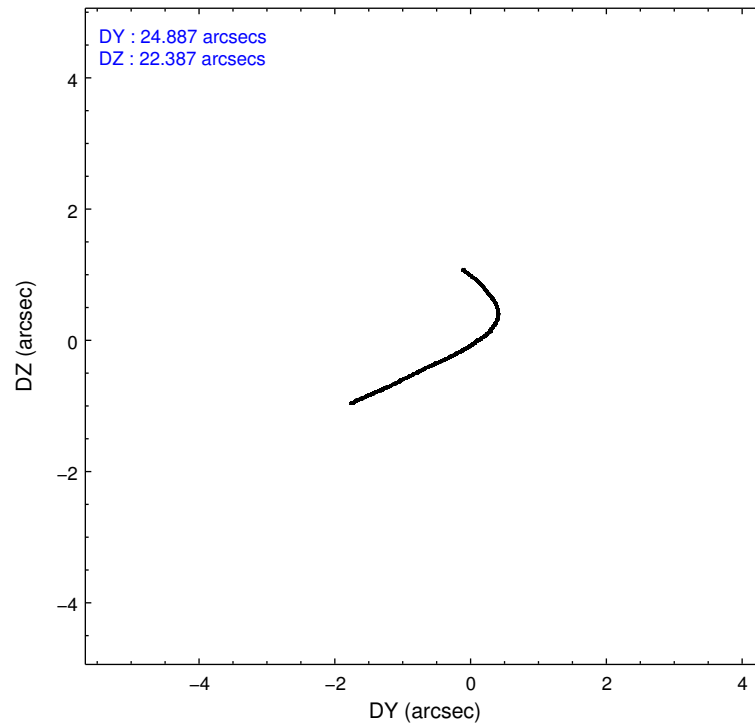
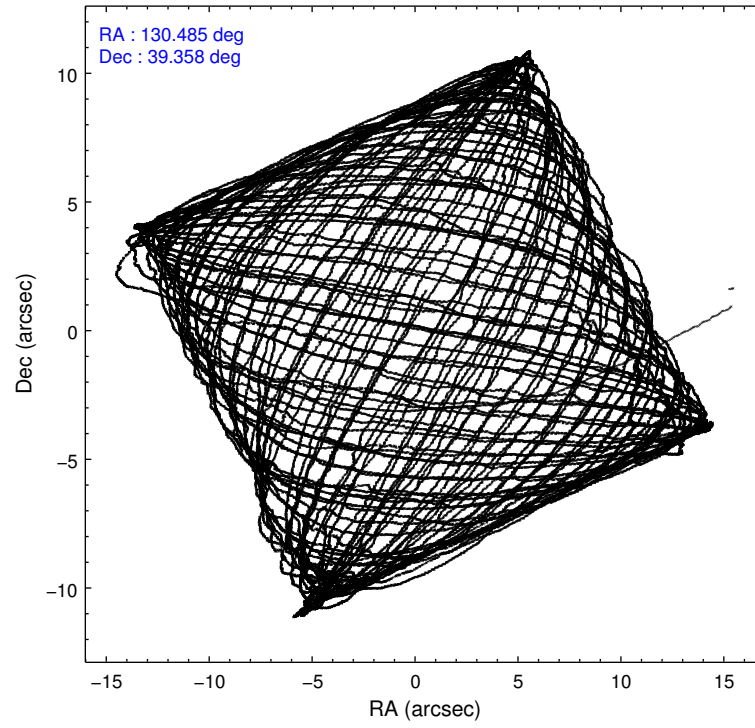
	ccd 6	ccd 7	ccd 8
level 1 events	302187	370834	380513
rejected events	256896	208645	279651
rejected %	85%	56%	73%

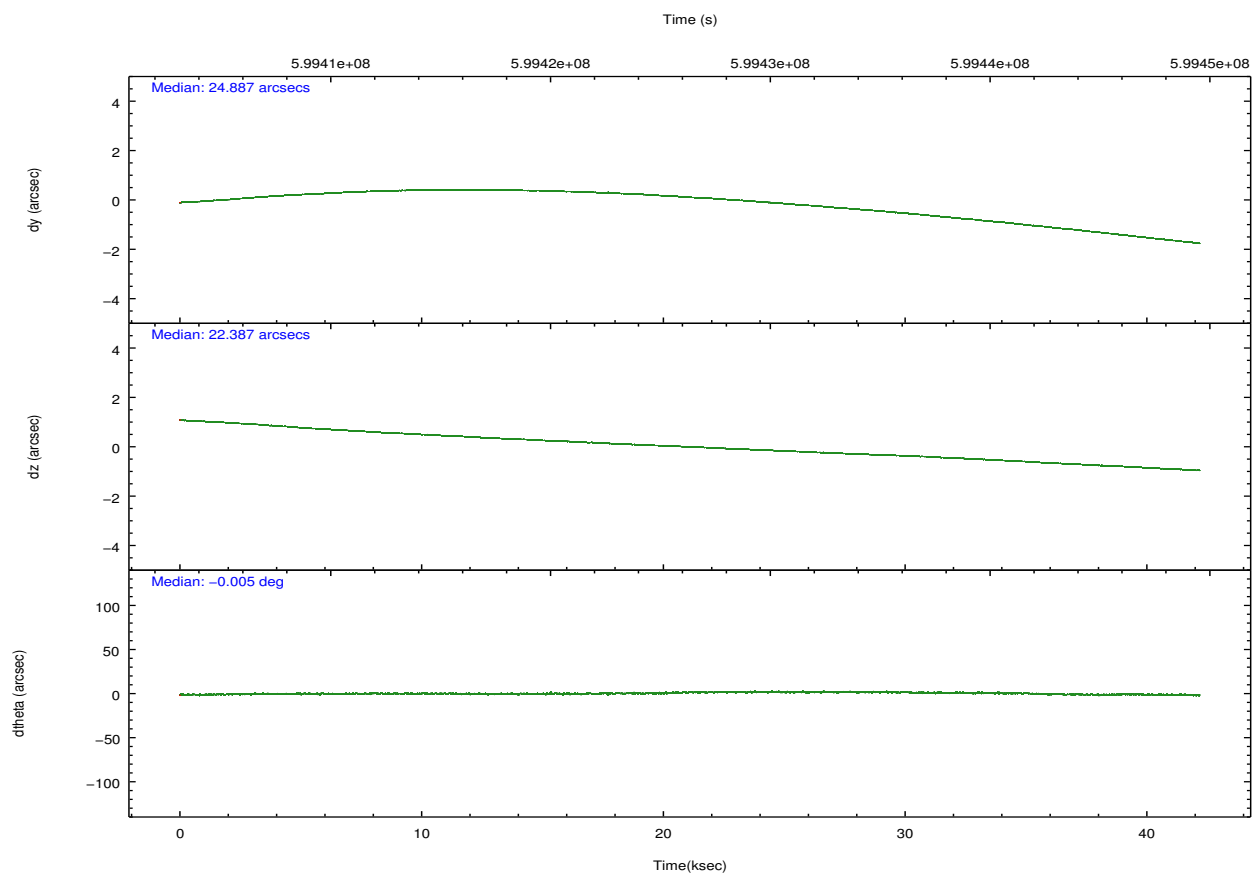
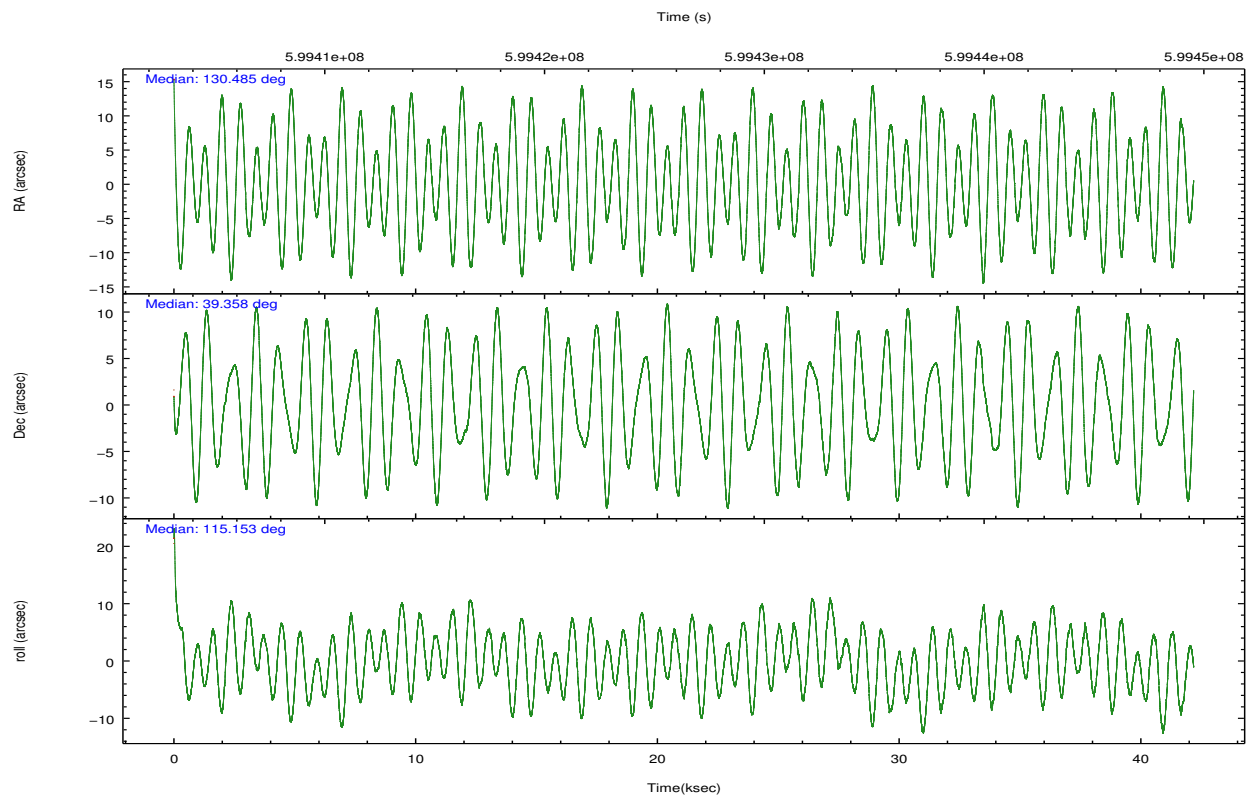
	ccd 6	ccd 7	ccd 8
grade 0 events	23496	13541	27756
	7%	3%	7%
grade 1 events	246	479	285
	0%	0%	0%
grade 2 events	7547	34594	25204
	2%	9%	6%
grade 3 events	3339	13158	10416
	1%	3%	2%
grade 4 events	3283	12771	9884
	1%	3%	2%
grade 5 events	13932	37317	20914
	4%	10%	5%
grade 6 events	7633	88137	27614
	2%	23%	7%
grade 7 events	242711	170837	258440
	80%	46%	67%

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	130.514624	130.4852141301659	CCD I2 on	O2	N
[deg] Pointing Dec	39.342982	39.35836235437162	CCD I3 on	O1	N
[deg] Pointing Roll	114.986763	115.1620478677715	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	Y	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	Y	Y
[s] Observation start time (MET)	599405453.184000	599404365.47615	CCD S5 on	N	N
Observation start date	2016-12-29T13:29:45	2016-12-29T13:12:45	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	599447453.184000	599448603.45371	On-chip summing requested	N	N
Observation end date	2016-12-30T01:09:45	2016-12-30T01:30:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



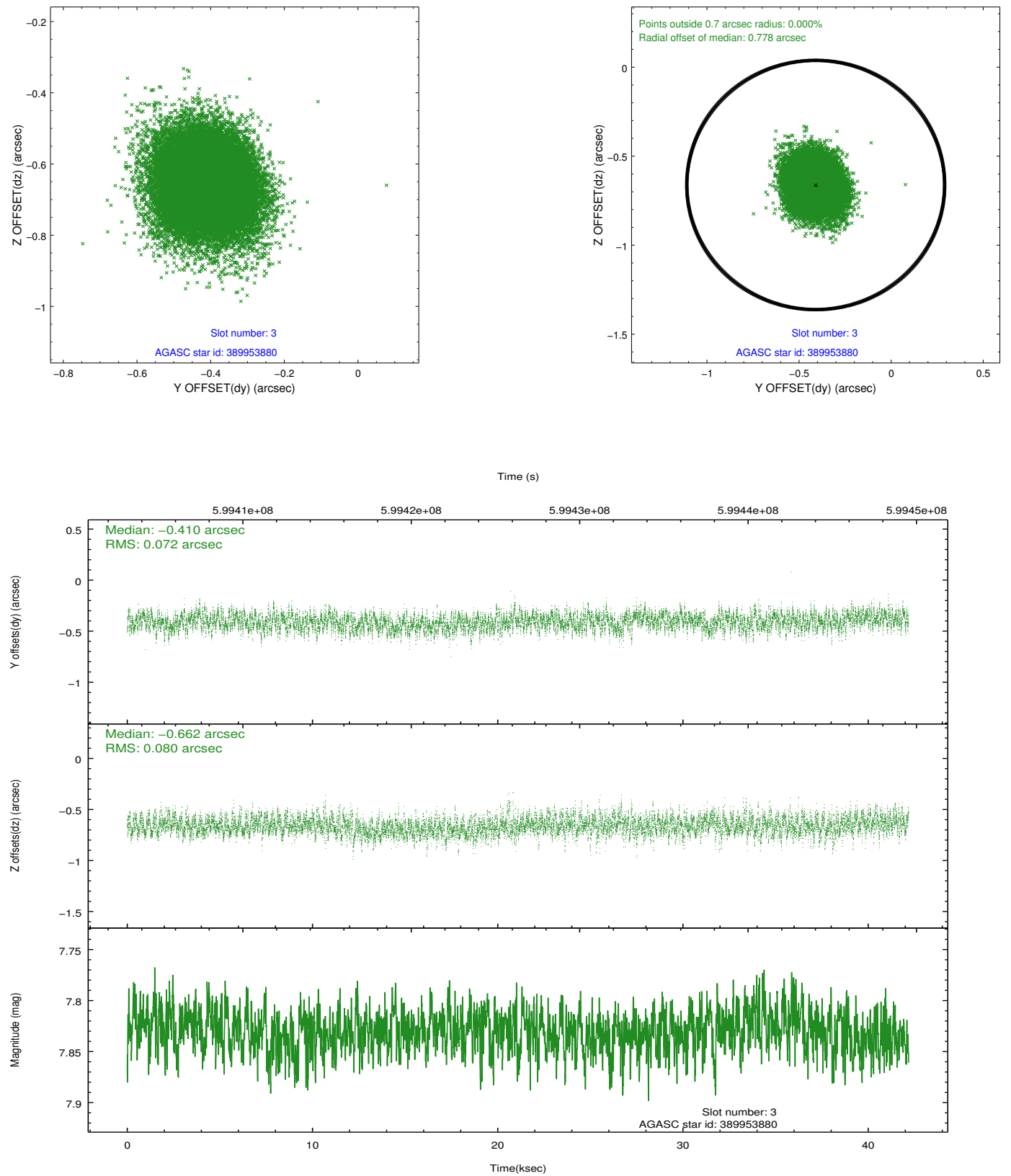


Slot Statistics

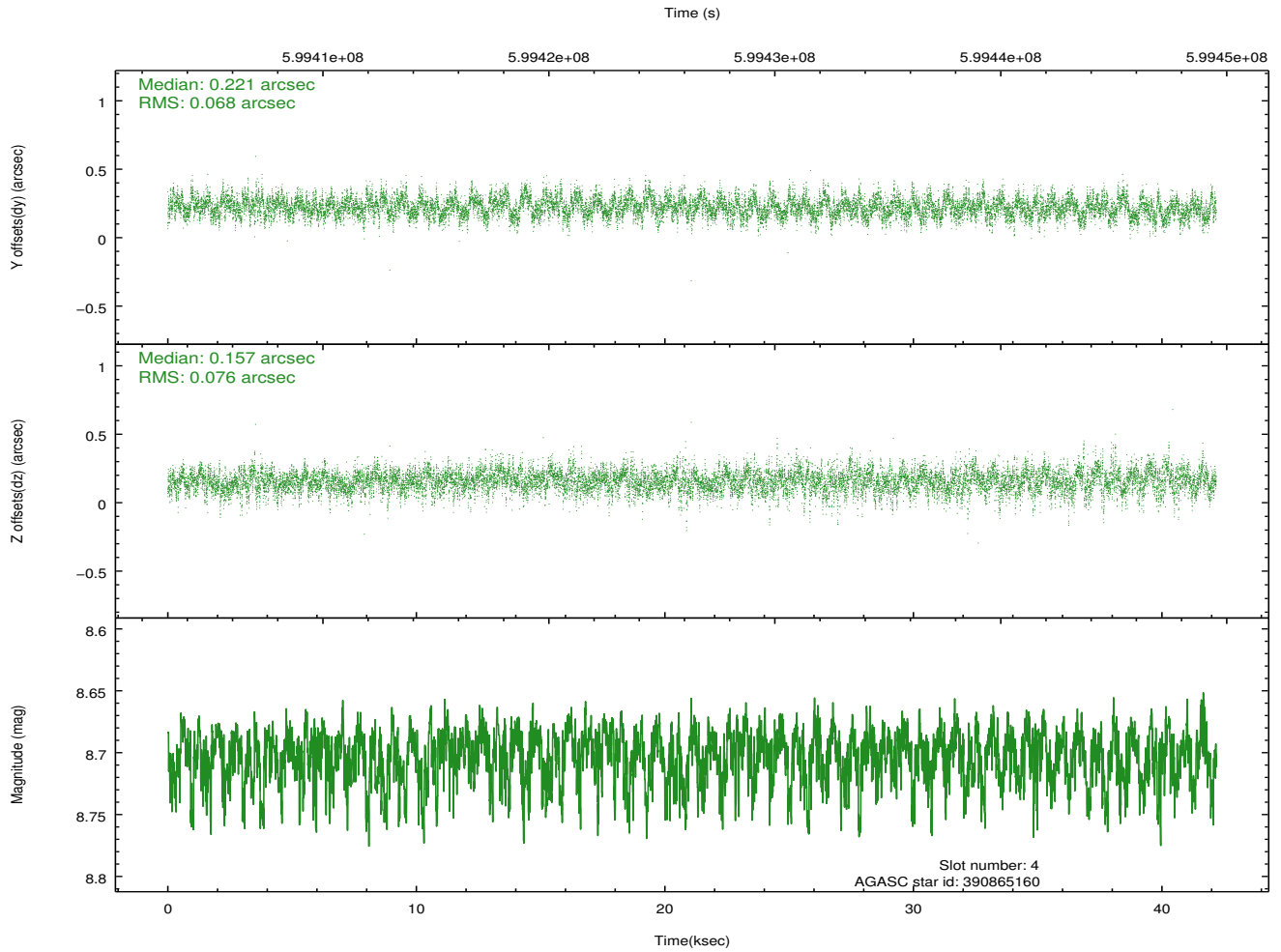
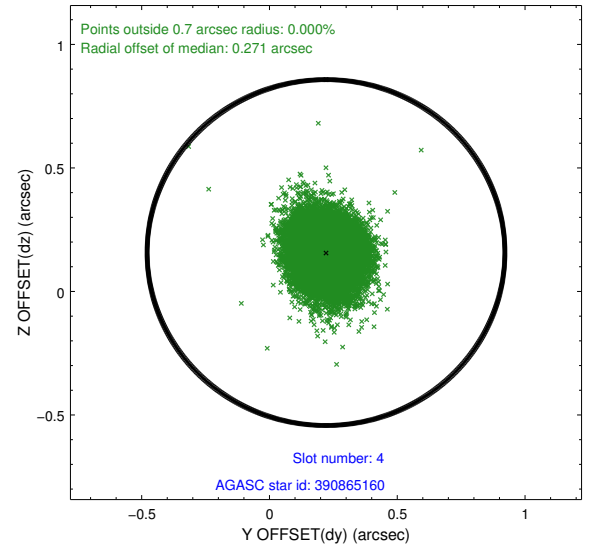
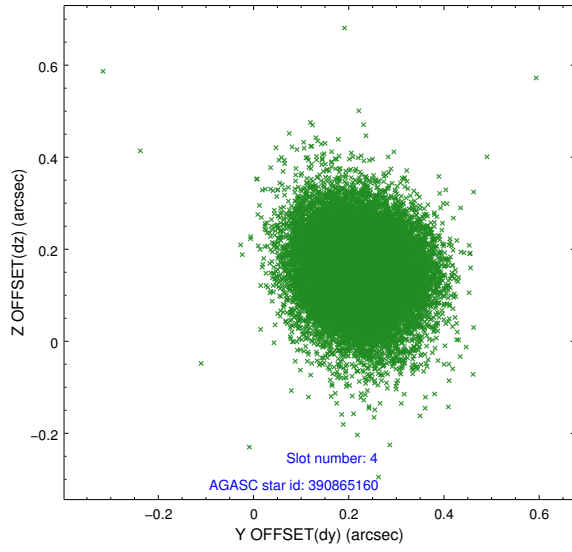
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.98	10288	-0.277	-0.136	0.014	0.039	0.000000	0.000000	-778.14	-1744.12
1	FID		ACIS-S-4	7.09	10289	0.577	0.171	0.012	0.038	0.000000	0.000000	2135.97	164.68
2	FID		ACIS-S-5	7.10	10289	-0.333	-0.024	0.013	0.022	0.000000	0.000000	-1831.05	158.13
3	GUIDE	used	389953880	7.83	20575	-0.410	-0.662	0.114	0.184	129.484084	39.644812	2205.97	2123.34
4	GUIDE	used	390865160	8.70	20565	0.221	0.157	0.107	0.176	130.458997	39.150226	-562.81	434.22
5	GUIDE	used	390866656	8.00	20573	0.038	0.407	0.093	0.164	131.112779	39.862716	1003.18	-2290.28
6	GUIDE	used	390867952	8.91	20556	-0.000	0.209	0.103	0.179	130.507524	39.576875	771.89	-337.43
7	GUIDE	used	390870832	6.63	20578	0.153	-0.107	0.088	0.150	130.673915	39.061455	-1105.93	24.24

2.4 Star Slots

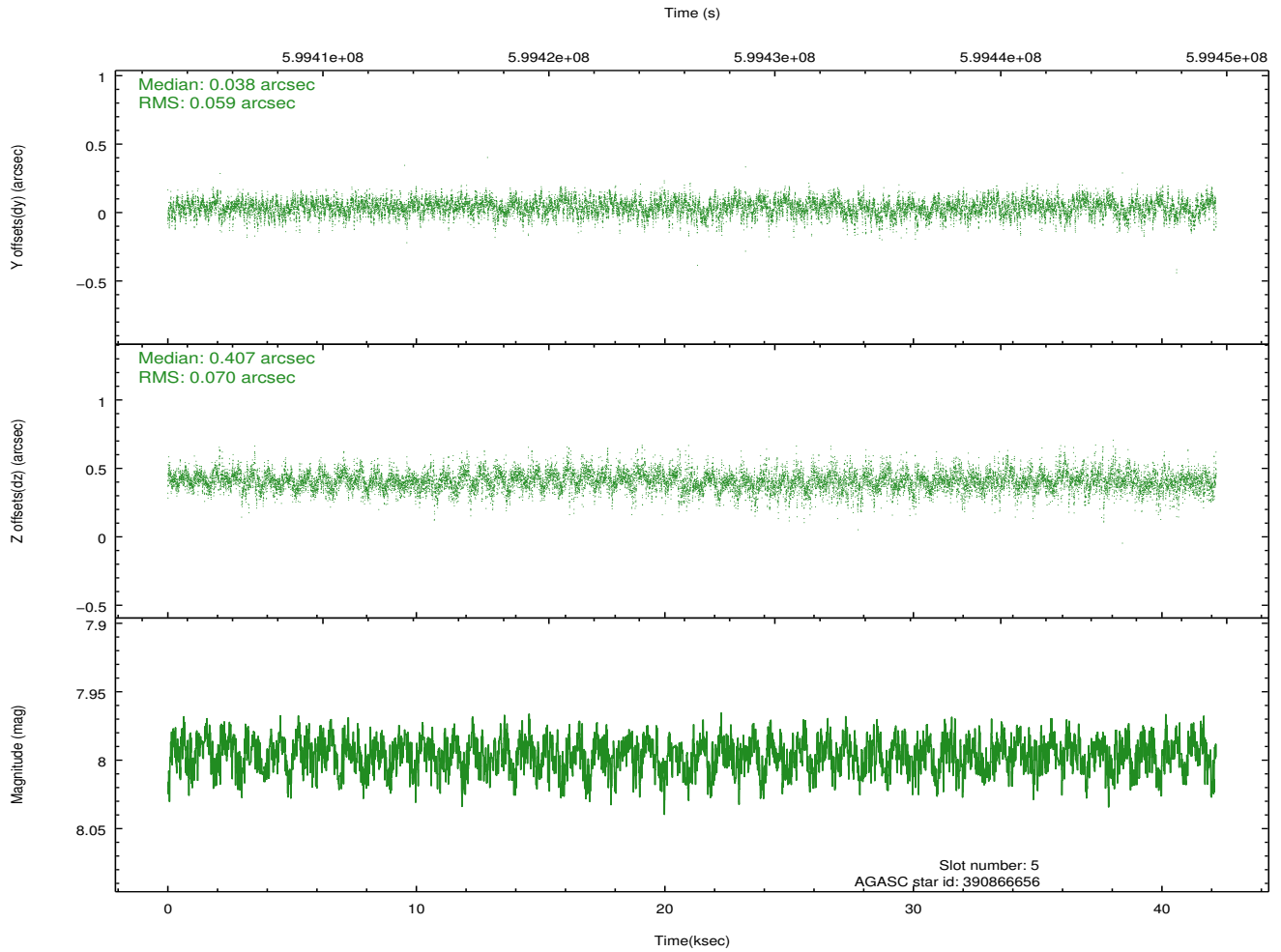
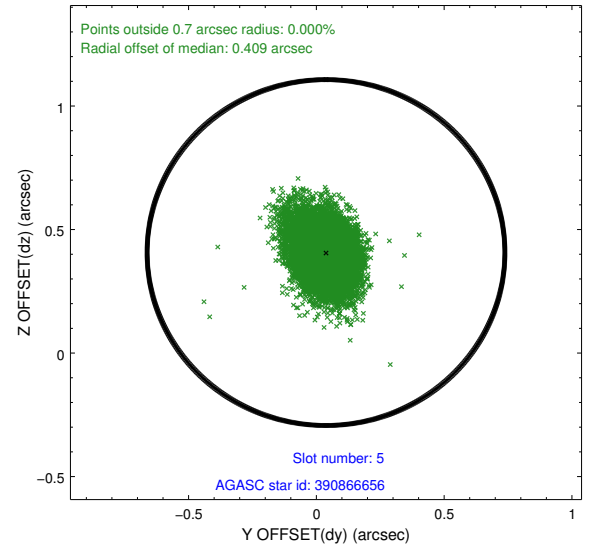
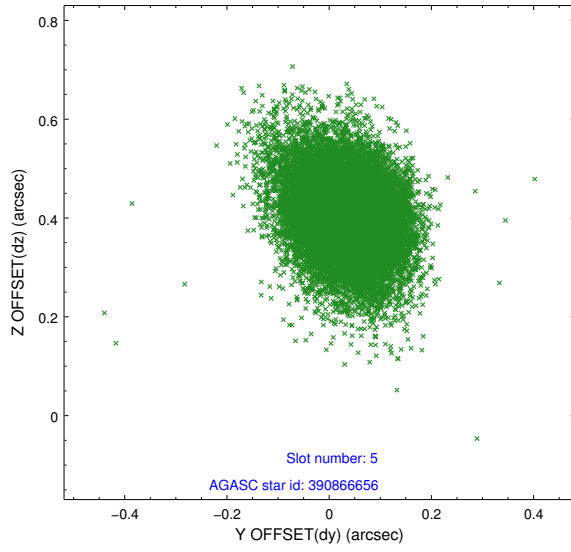
2.4.1 Slot 3



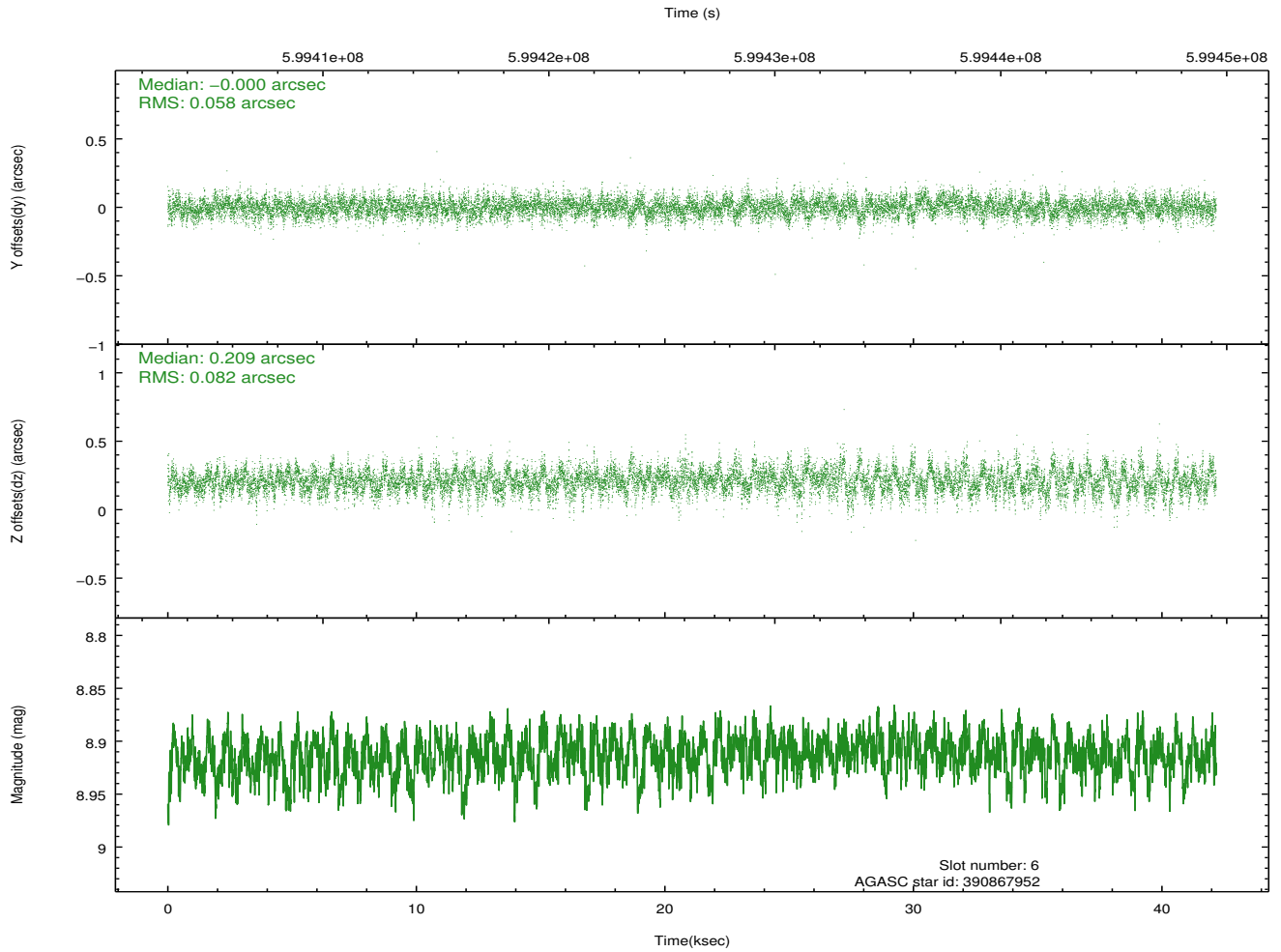
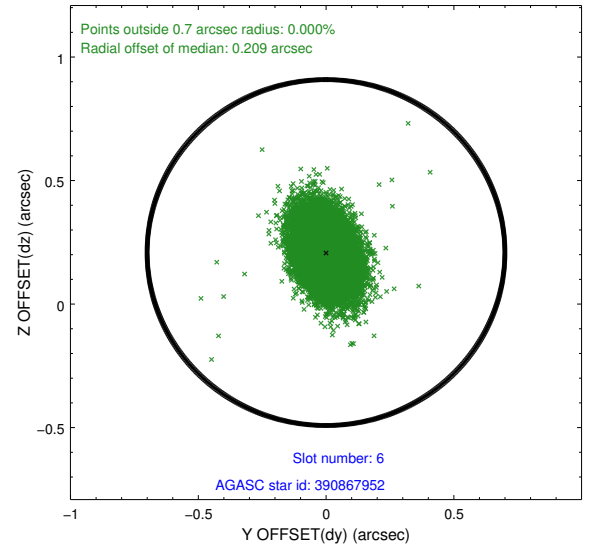
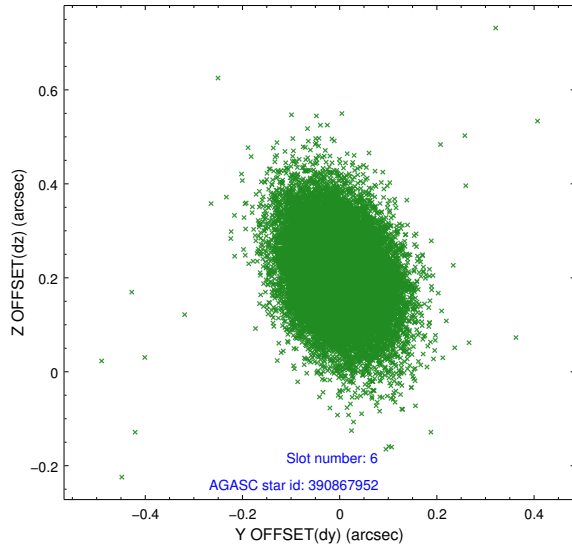
2.4.2 Slot 4



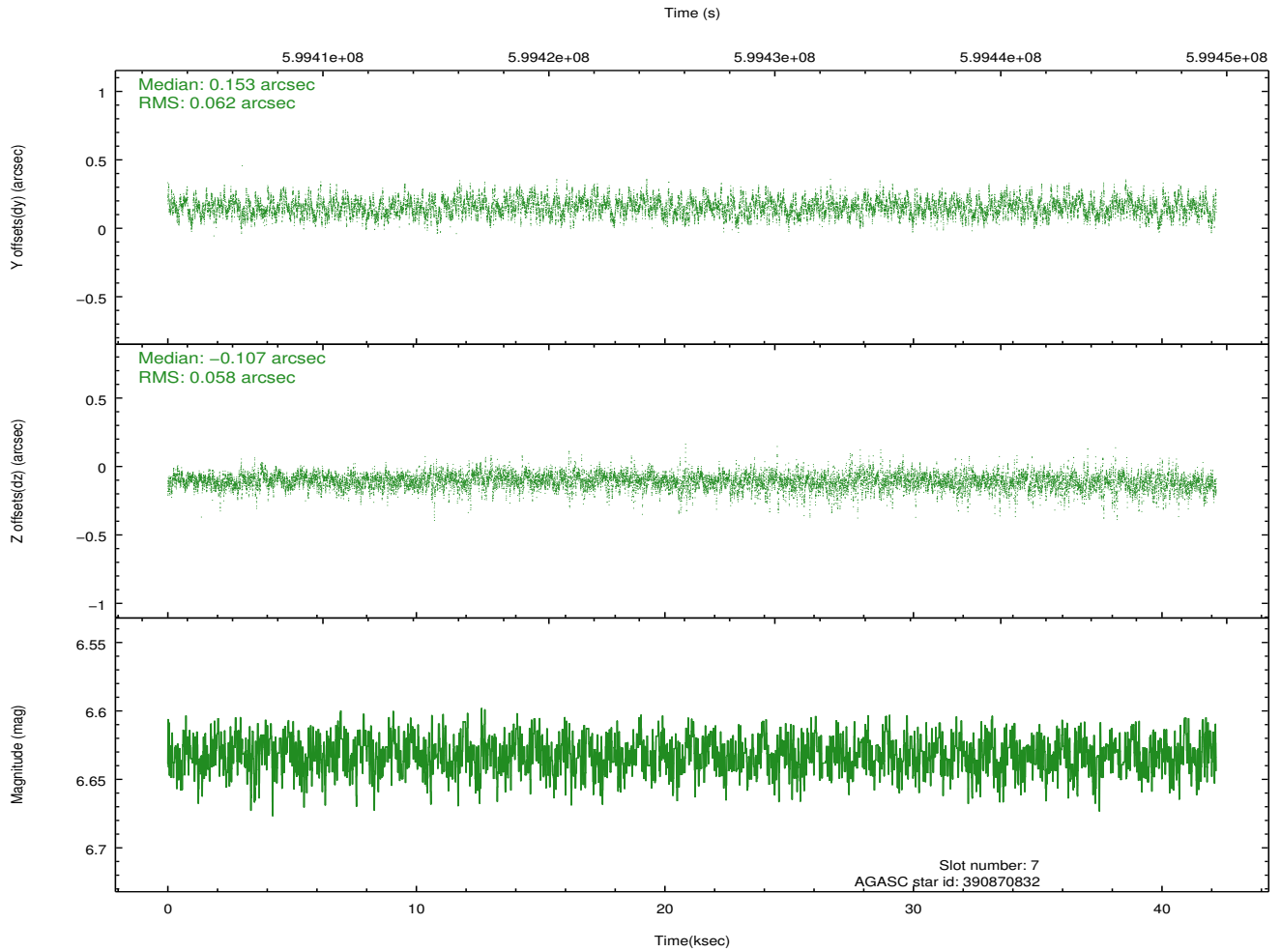
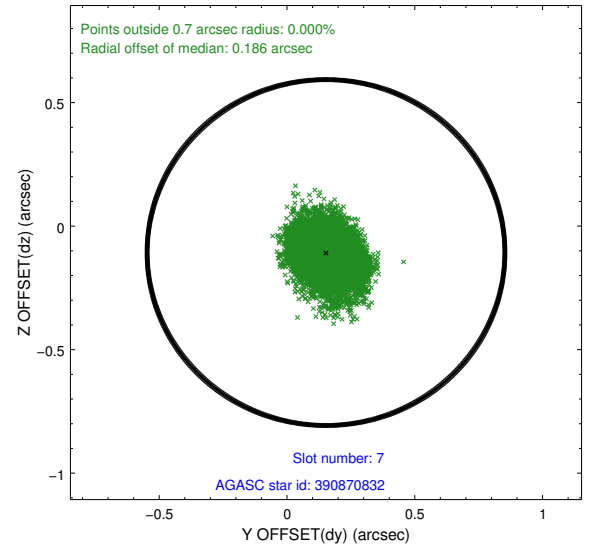
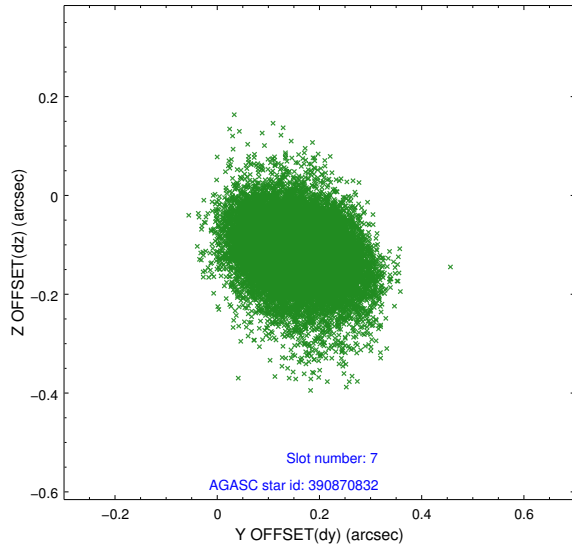
2.4.3 Slot 5



2.4.4 Slot 6

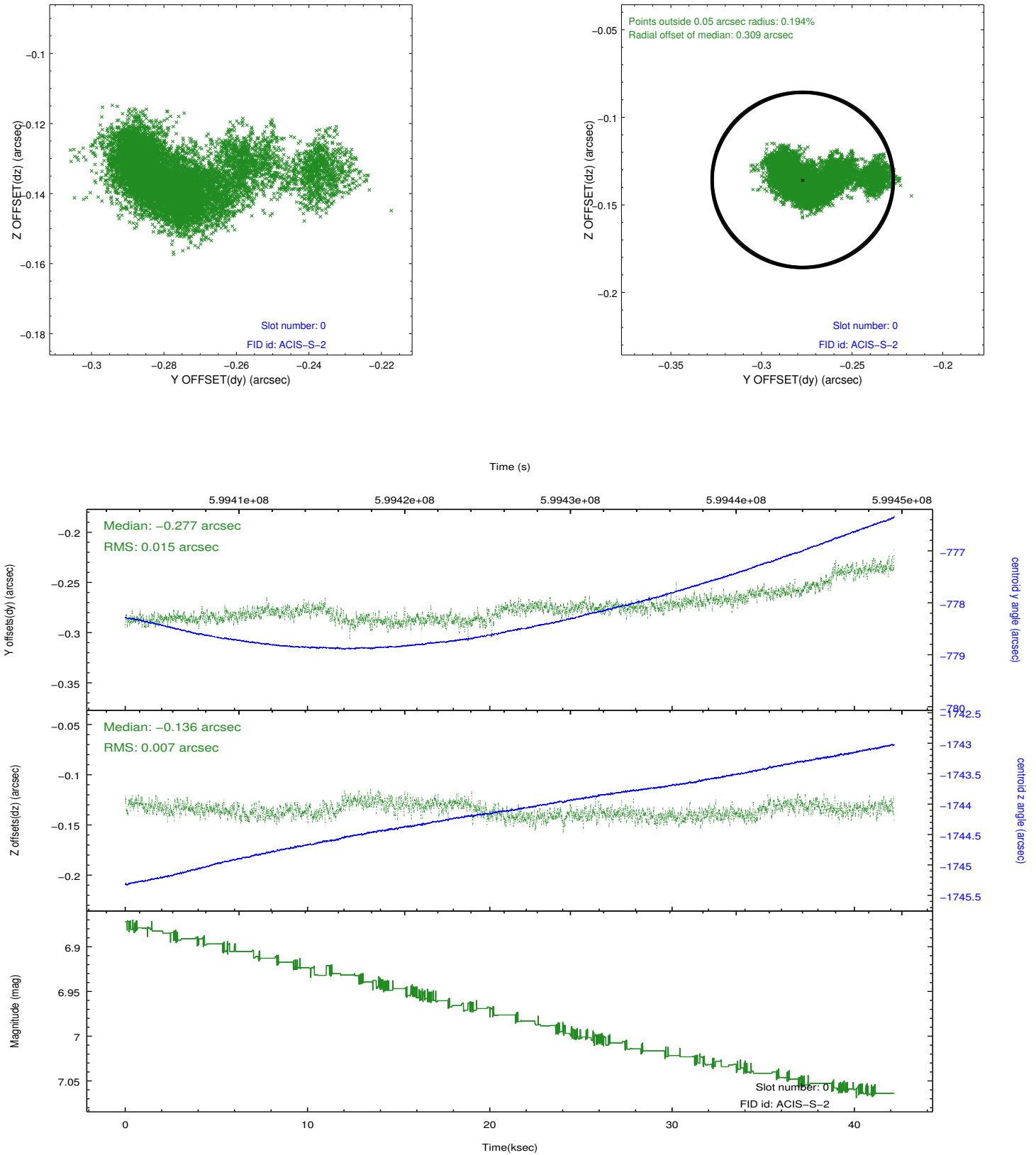


2.4.5 Slot 7

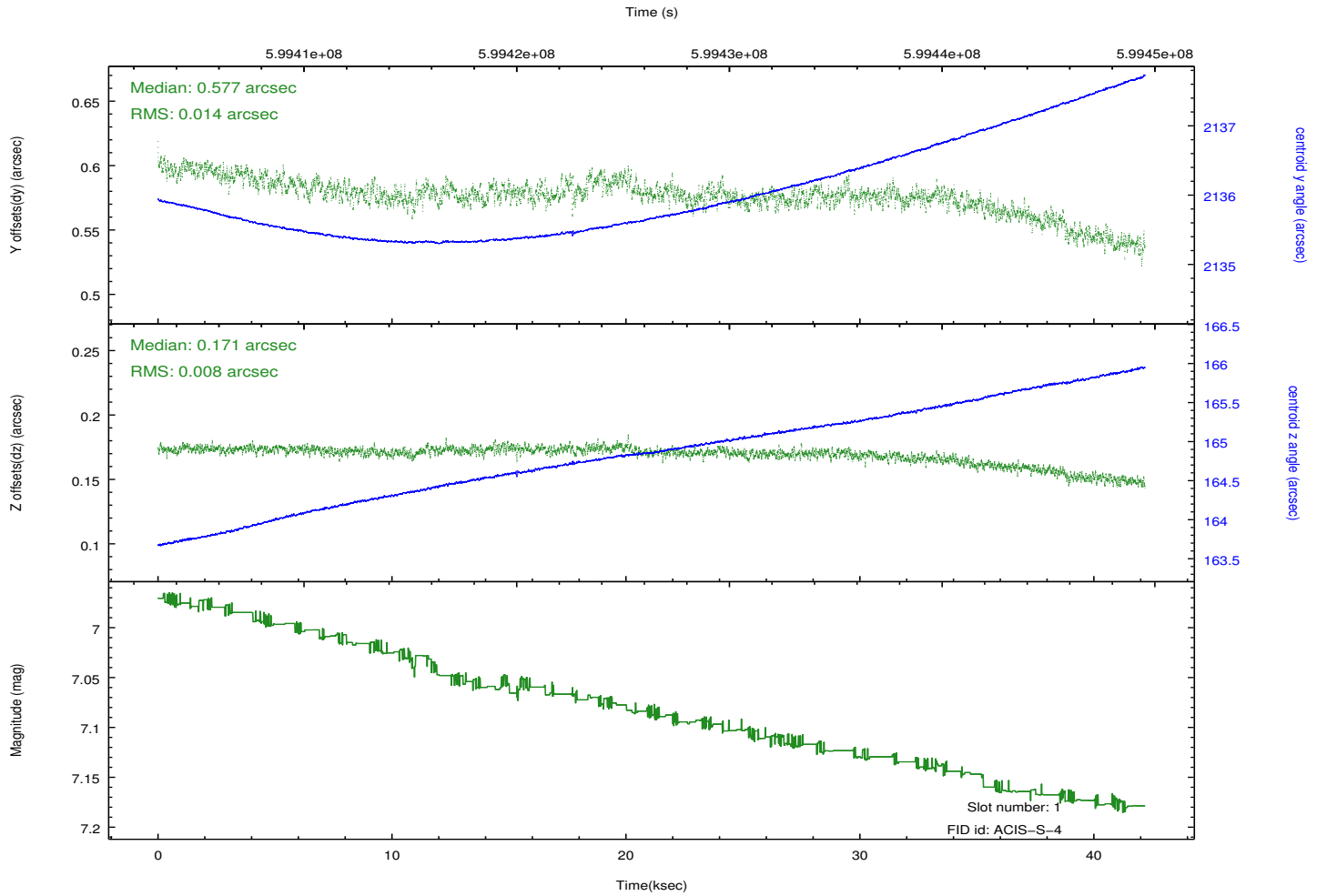
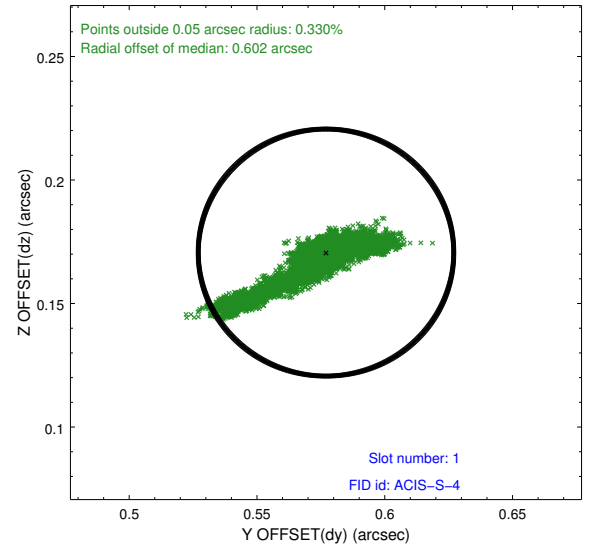
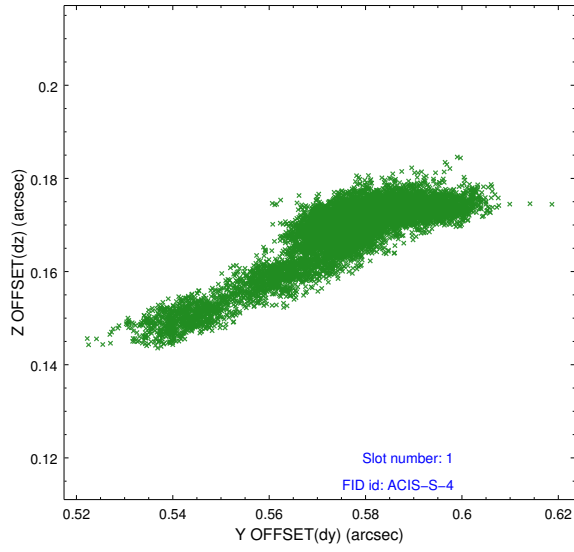


2.5 FID Slots

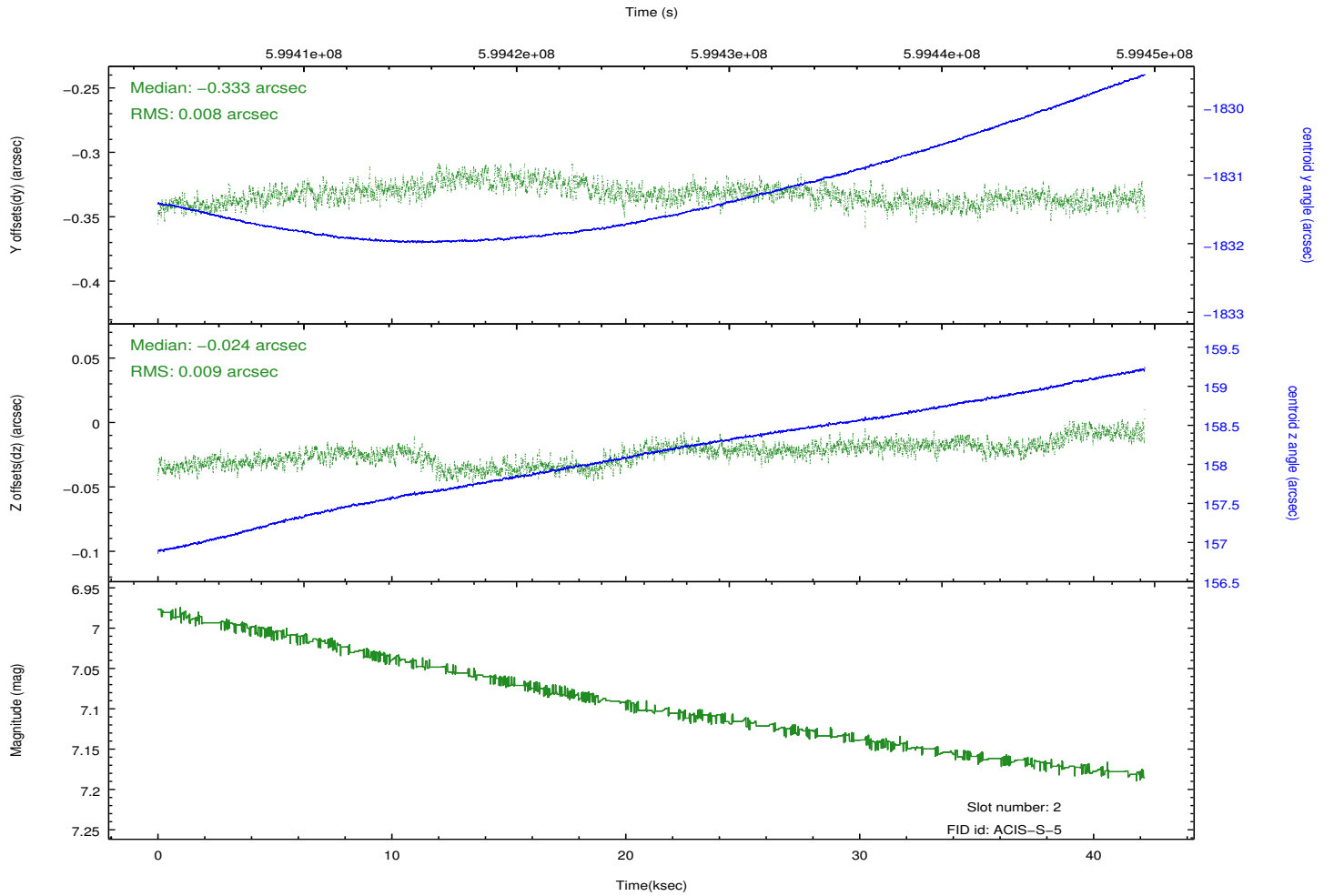
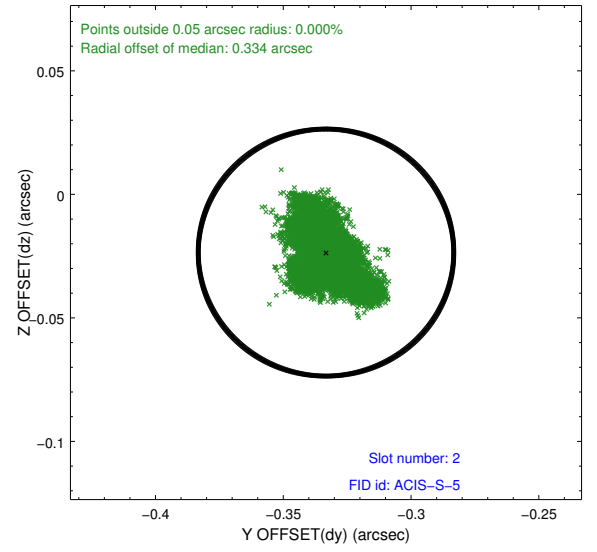
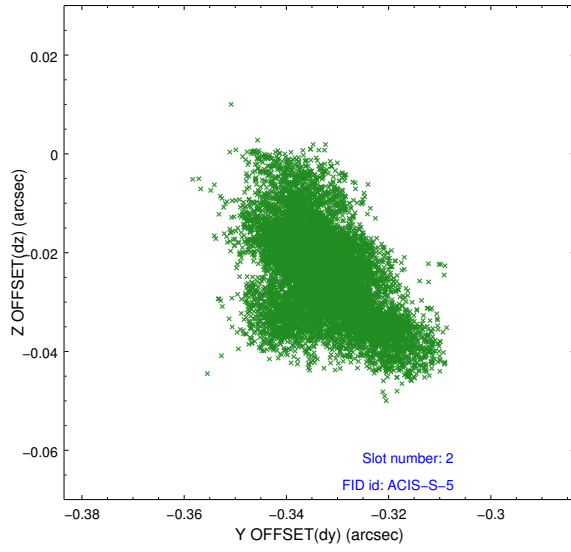
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.12.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.113500324011

A.2 Comments

Two optional chips were dropped.