

V&V Reference Report

L2 ASCDS Version : 10.8.4

Observation 23132 - L2 Version 1
Chandra X-Ray Center

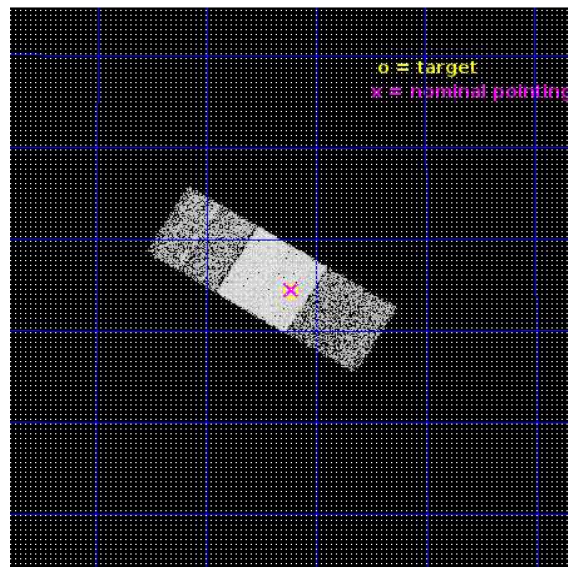
L2 Processing Date : Jun 18 2020

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1 Front

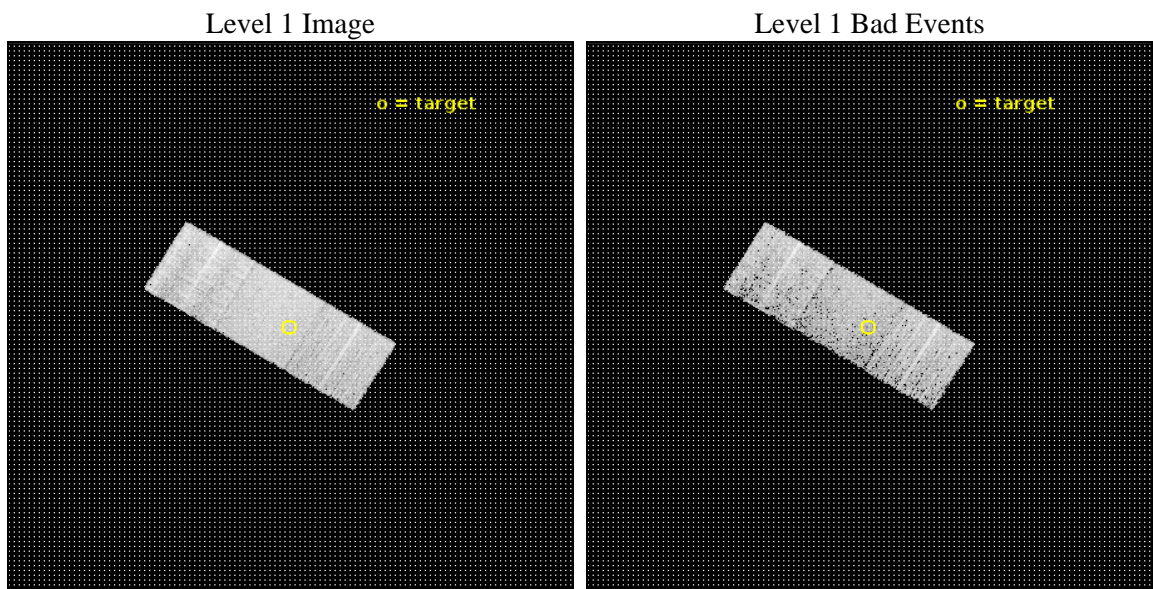
seq_num	704036	Sequence number
obs_id	23132	Observation id
title	Follow-up of a Weak-Line Quasar with Extreme X-ray Variability	Pro
observer	Qingling Ni	Principal investigator
object	SDSSJ1539+3954	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	234.806125	Observer's specified target RA [deg]
dec_targ	39.9065	Observer's specified target Dec [deg]
ra_nom	234.806037446	Nominal RA [deg]
dec_nom	39.9087606333	Nominal Dec [deg]
roll_nom	211.222849744	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5111.2366988659	Sum of GTIs [s]
livetime	5044.4546285575	Livetime [s]
ontime6	5111.1956589222	Sum of GTIs [s]
ontime7	5111.2366988659	Sum of GTIs [s]
ontime8	5111.1546188593	Sum of GTIs [s]
l2events	31195	Number of level 2 events



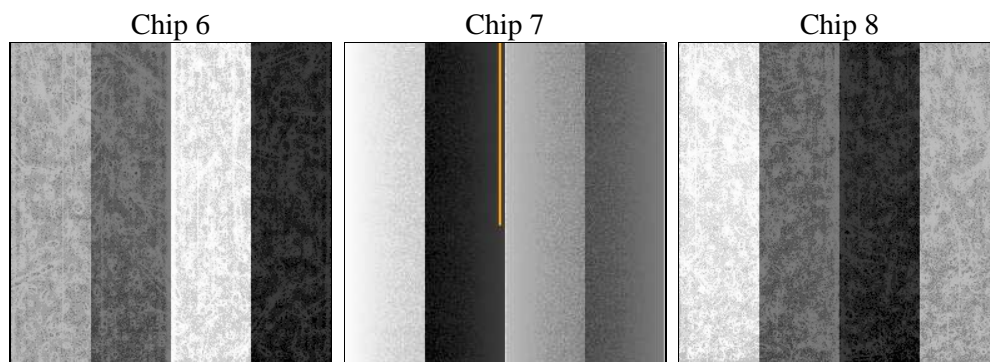
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.4	Processing system revision	ontime	5111.2366988659	Sum of GTIs [s]
caldsver	4.9.1	 	ontime6	5111.1956589222	Sum of GTIs [s]
date	2020-06-18T11:58:58	Date and time of file creation	ontime7	5111.2366988659	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	5111.1546188593	Sum of GTIs [s]
			l1events	143887	Number of level 1 events

2.1.4 Events

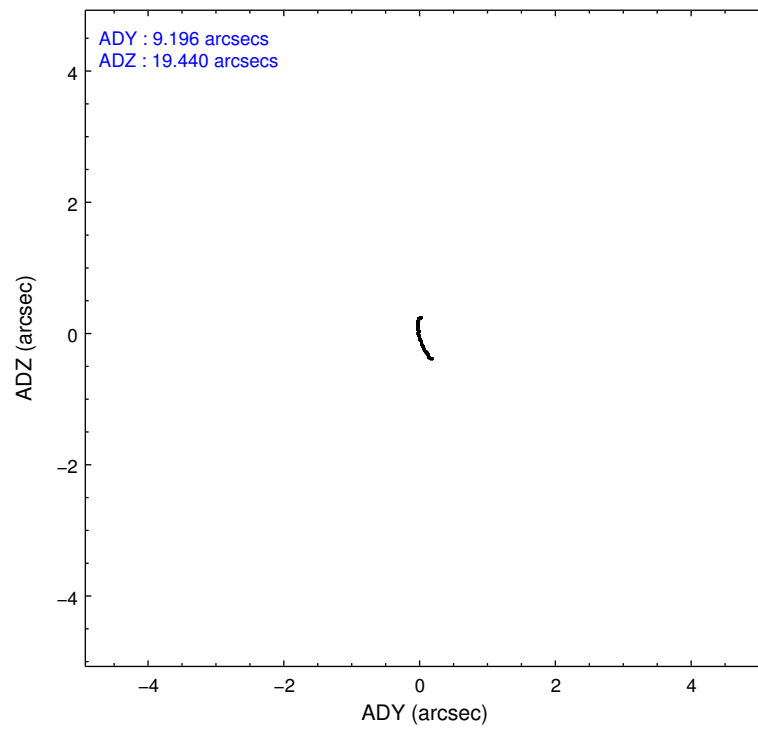
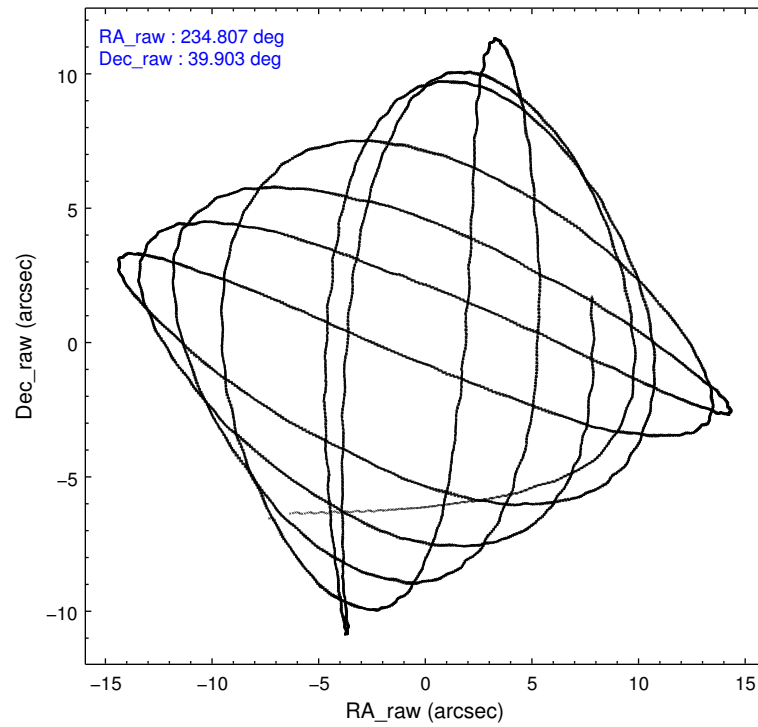
	ccd 6	ccd 7	ccd 8
level 1 events	39748	51398	52741
rejected events	35179	28743	37151
rejected %	88%	55%	70%

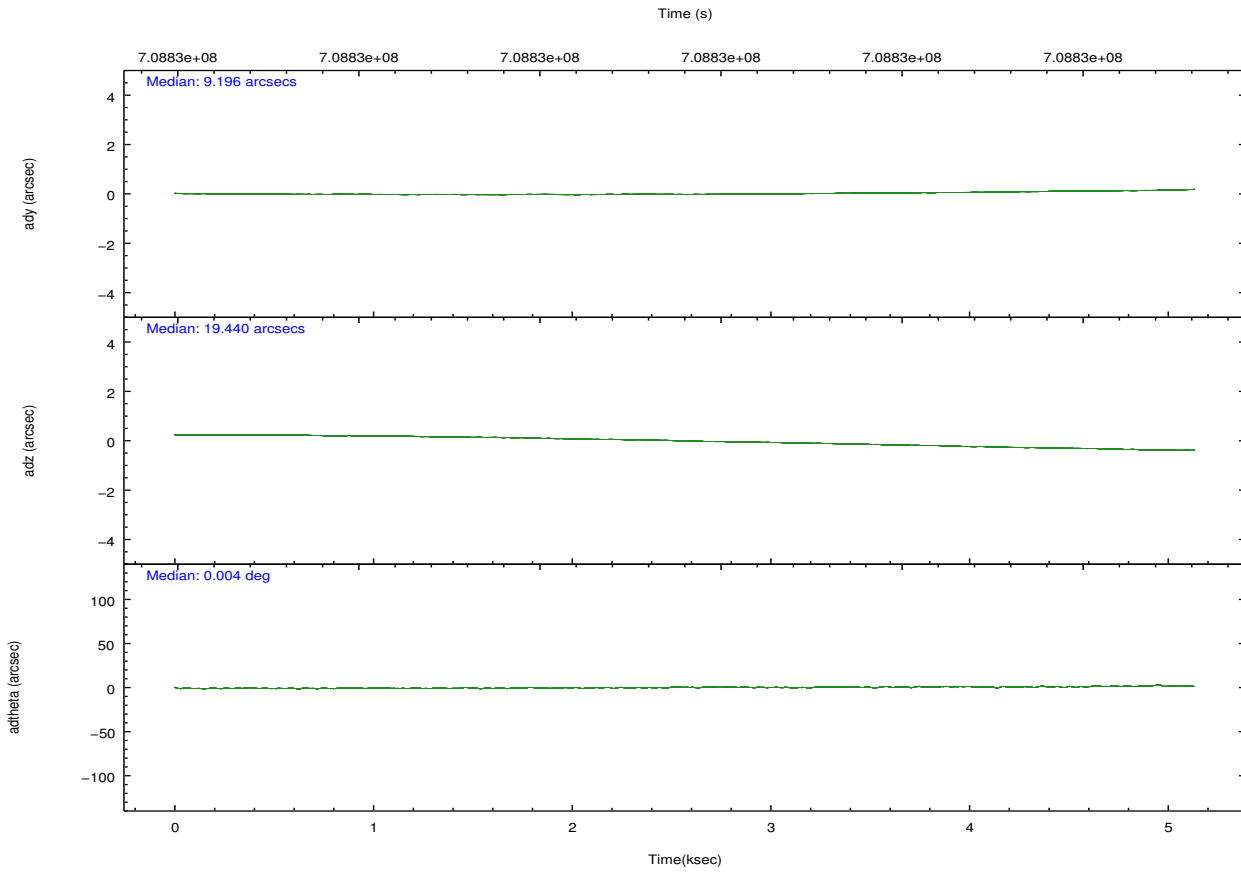
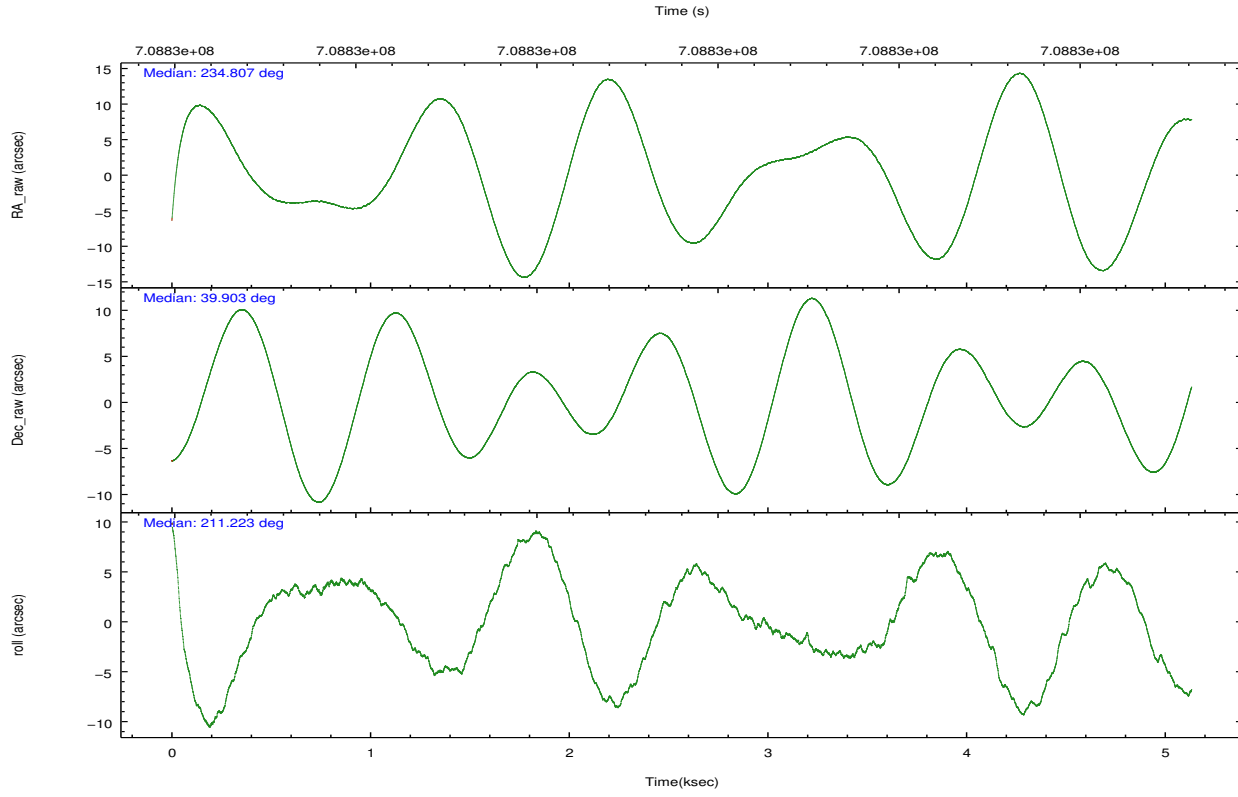
	ccd 6	ccd 7	ccd 8
grade 0 events	1519	1900	4615
	3%	3%	8%
grade 1 events	20	77	51
	0%	0%	0%
grade 2 events	1082	4924	3825
	2%	9%	7%
grade 3 events	442	1695	1450
	1%	3%	2%
grade 4 events	426	1795	1387
	1%	3%	2%
grade 5 events	1938	4975	2782
	4%	9%	5%
grade 6 events	1106	12365	4340
	2%	24%	8%
grade 7 events	33215	23667	34291
	83%	46%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
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	234.823519	234.806037446	CCD I2 on	N	N
[deg] Pointing Dec	39.926859	39.9087606333	CCD I3 on	N	N
[deg] Pointing Roll	211.069411	211.222849744	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	O2	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	O1	Y
[s] Observation start time (MET)	708826368.184000	708825077.01345	CCD S5 on	N	N
Observation start date	2020-06-18T00:11:39	2020-06-17T23:51:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	708831368.184000	708832106.97638	On-chip summing requested	N	N
Observation end date	2020-06-18T01:34:59	2020-06-18T01:48:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



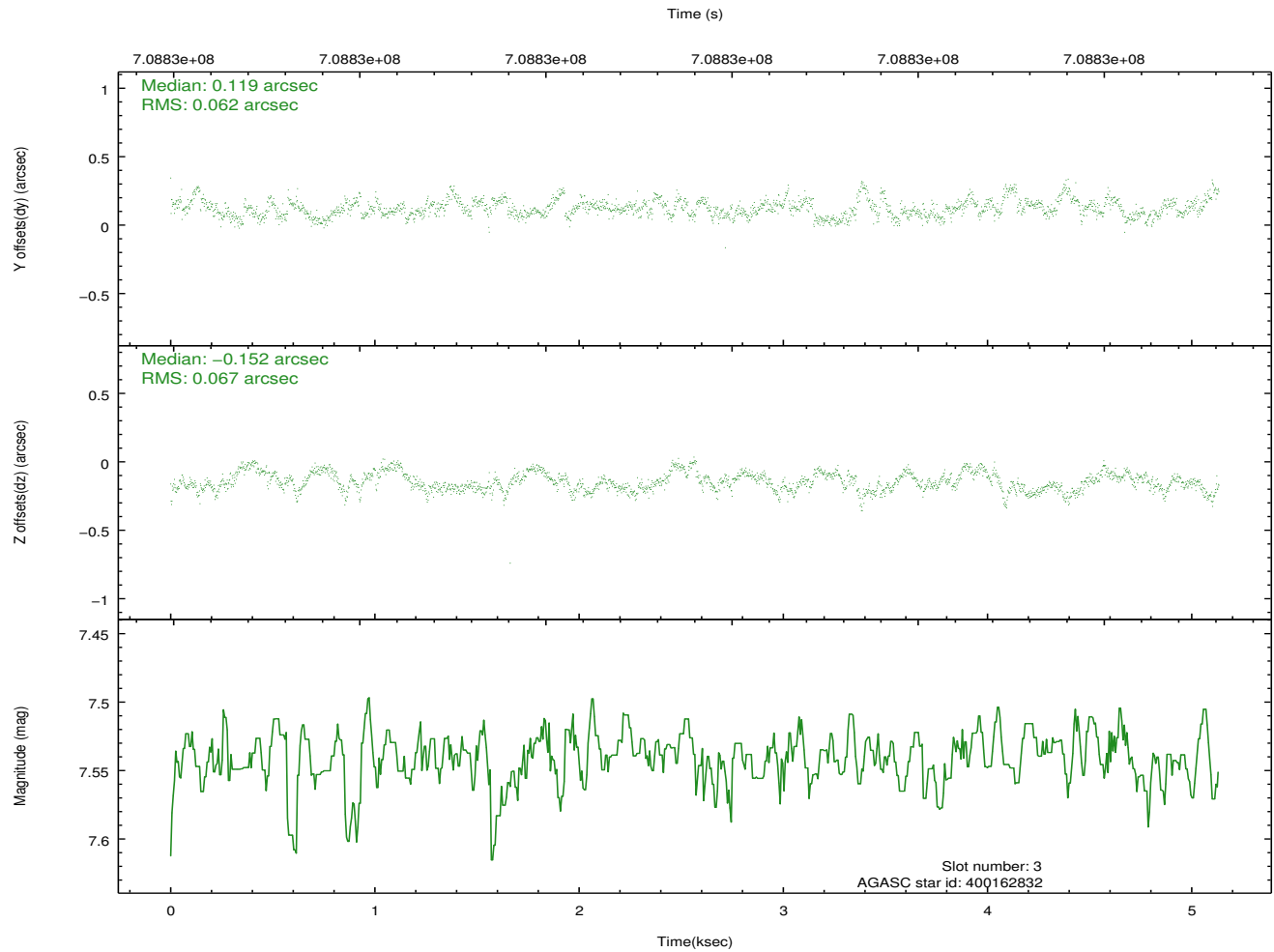
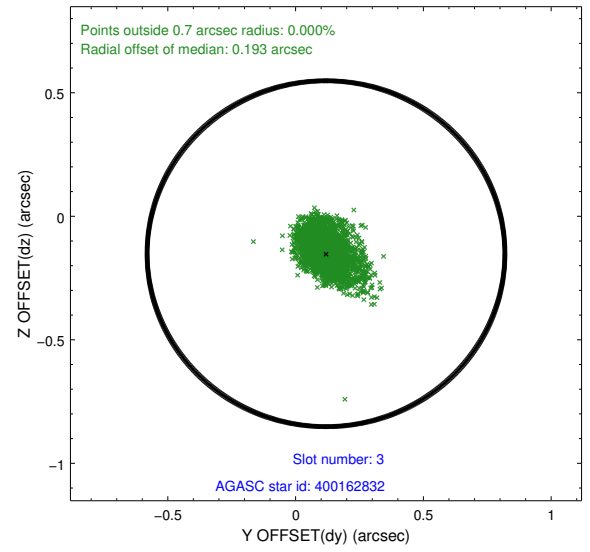
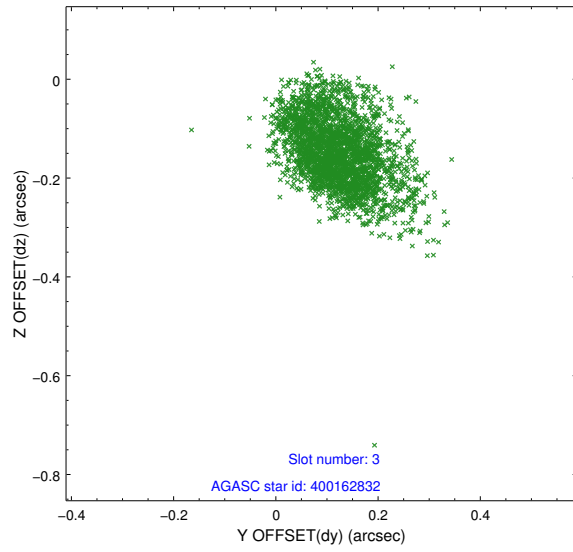


Slot Statistics

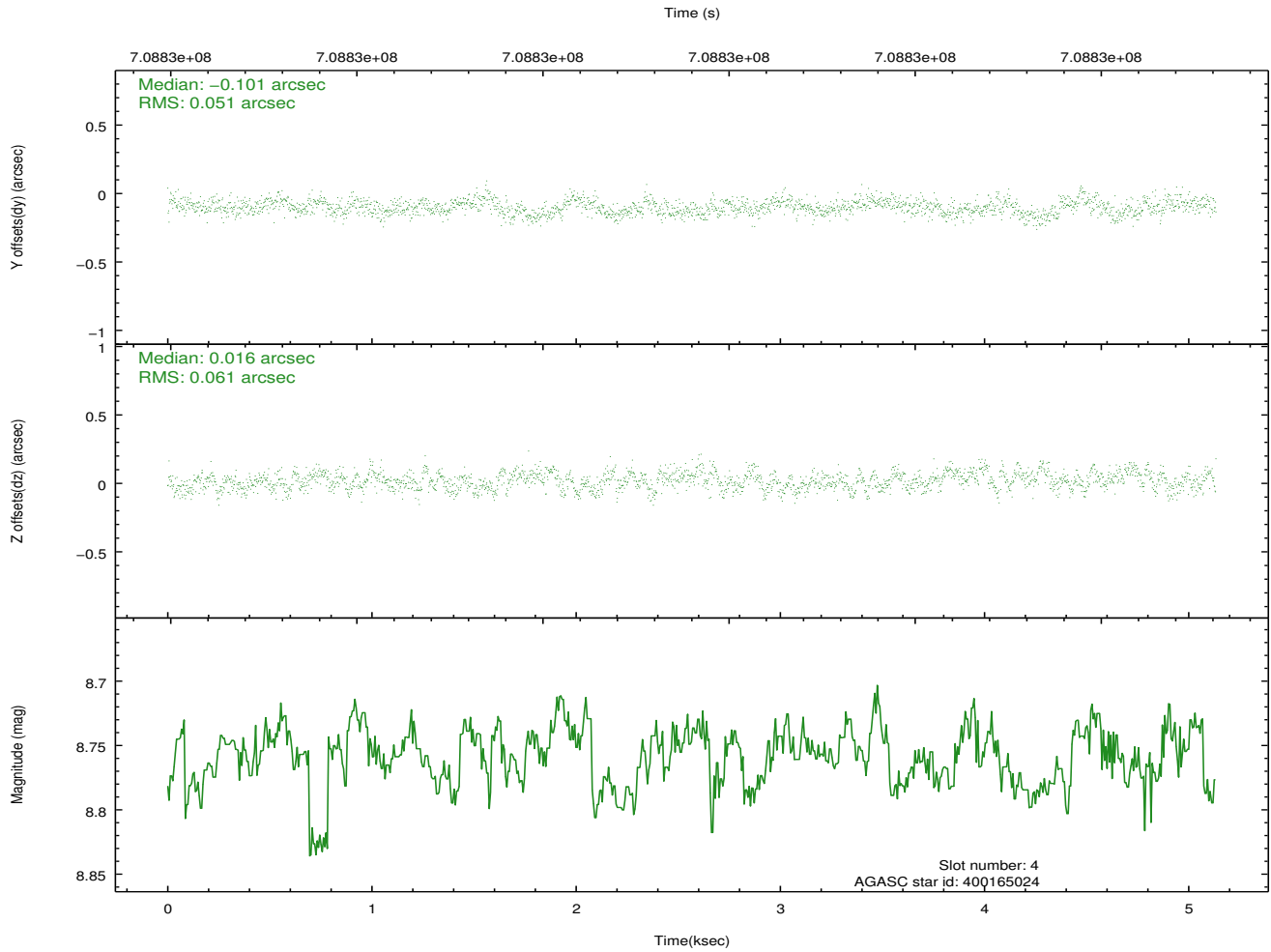
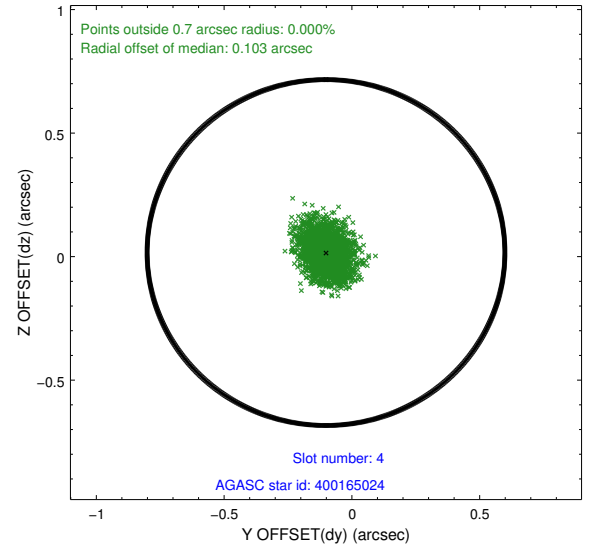
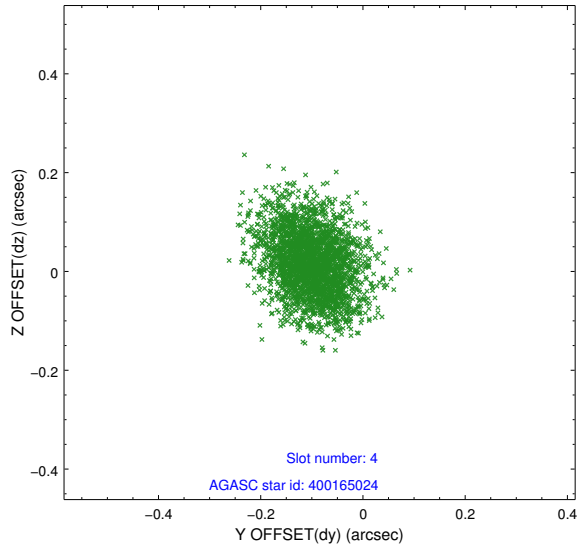
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.92	1253	1.000	0.138	-0.032	0.013	0.023	0.000000	0.000000	-762.15	-1740
1	FID		ACIS-S-4	7.05	1253	1.000	0.103	-0.057	0.006	0.010	0.000000	0.000000	2150.83	165
2	FID		ACIS-S-5	7.04	1253	1.000	-0.272	0.098	0.012	0.021	0.000000	0.000000	-1813.61	161
3	GUIDE	used	400162832	7.54	2504	1.000	0.119	-0.152	0.096	0.157	233.985694	39.831118	2164.15	-914
4	GUIDE	used	400165024	8.76	2504	1.000	-0.101	0.016	0.086	0.137	234.852278	39.422876	868.61	1595
5	GUIDE	used	400568536	8.54	2504	1.000	-0.035	0.078	0.116	0.188	234.227036	40.311987	685.14	-2036
6	GUIDE	used	400570600	8.70	2495	1.000	0.072	-0.072	0.162	0.258	234.006352	40.320917	1185.70	-2380
7	GUIDE	used	400165880	8.36	2504	1.000	-0.056	0.125	0.108	0.183	235.659708	39.516776	-1231.72	2452

2.4 Star Slots

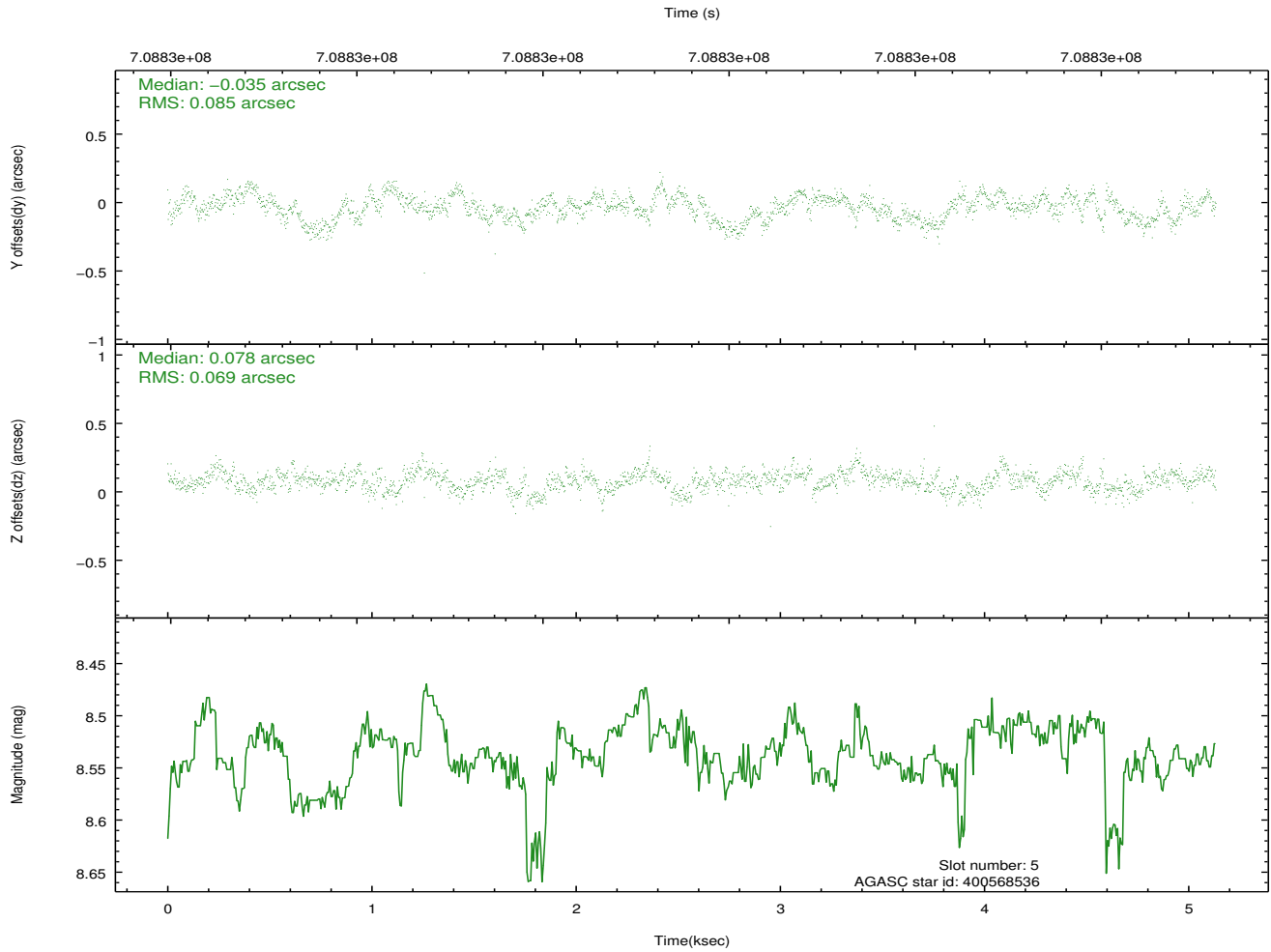
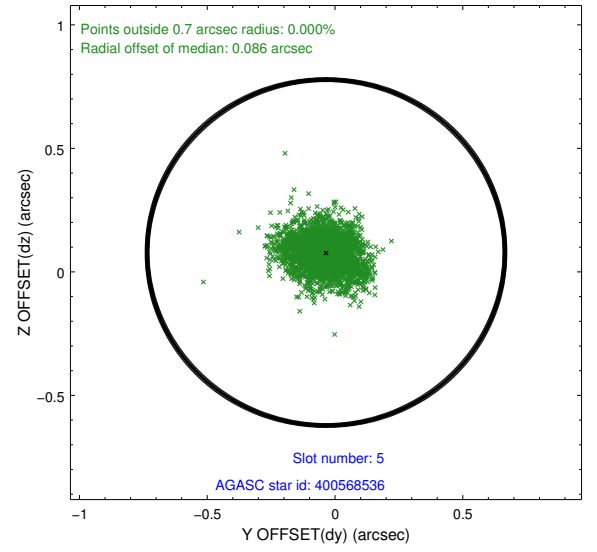
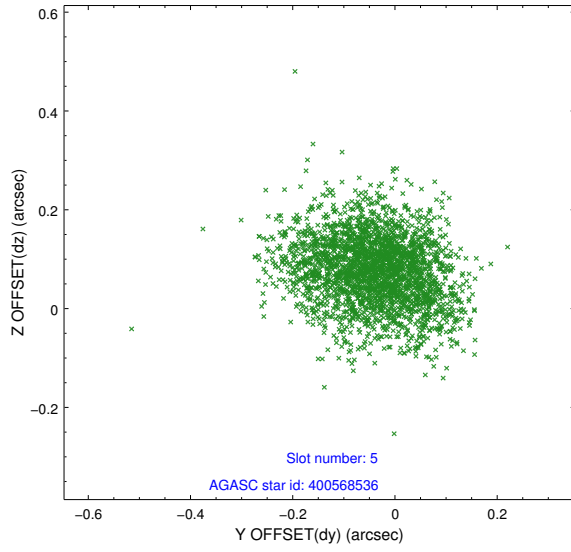
2.4.1 Slot 3



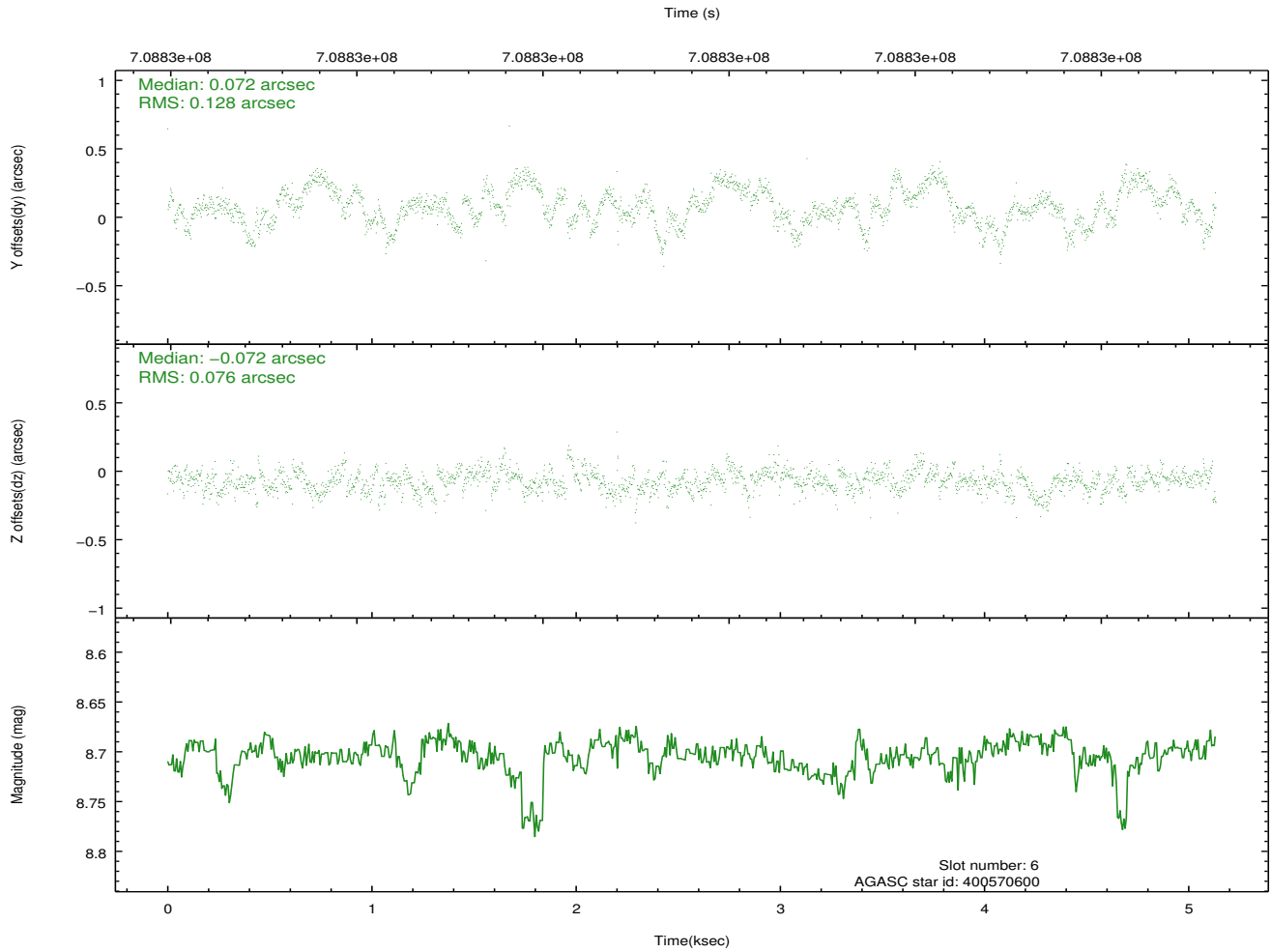
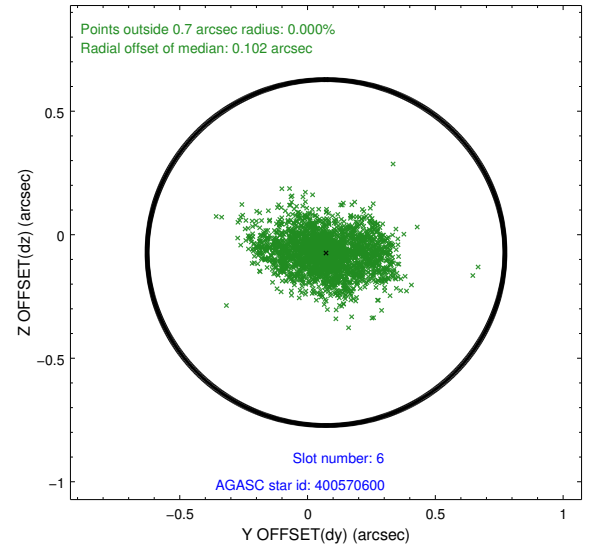
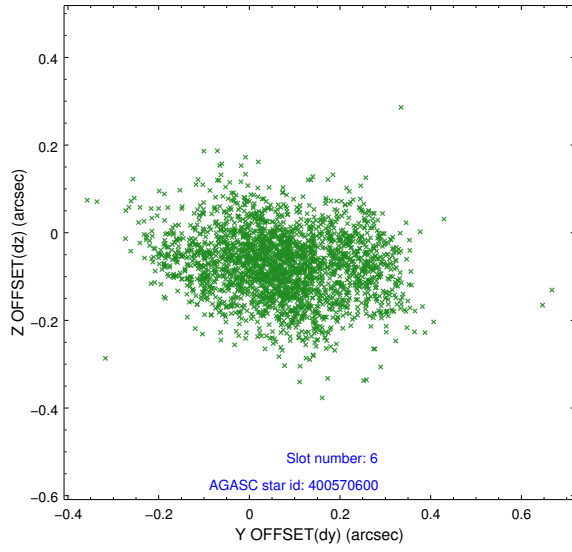
2.4.2 Slot 4



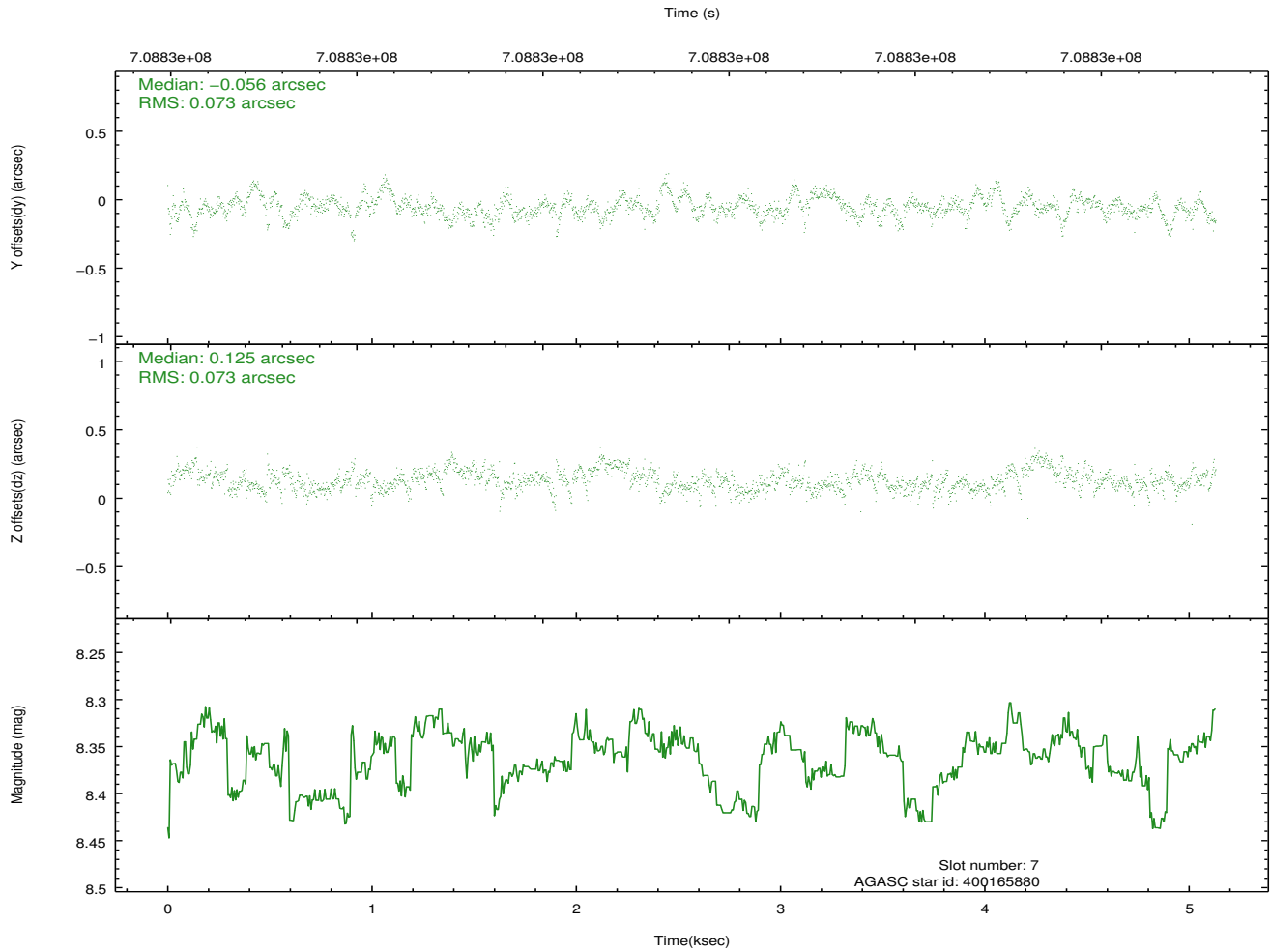
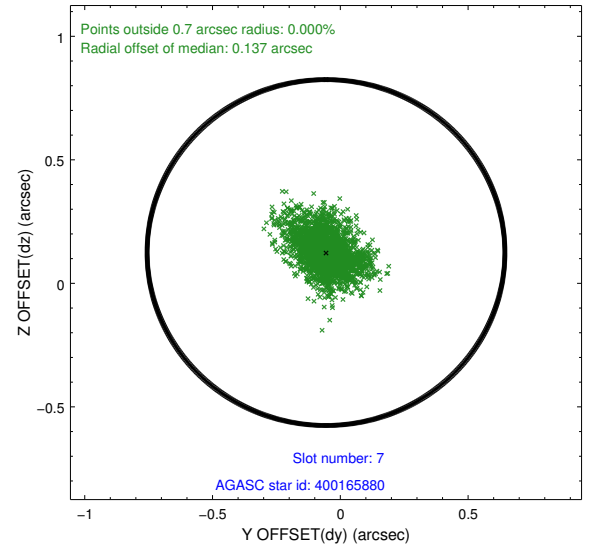
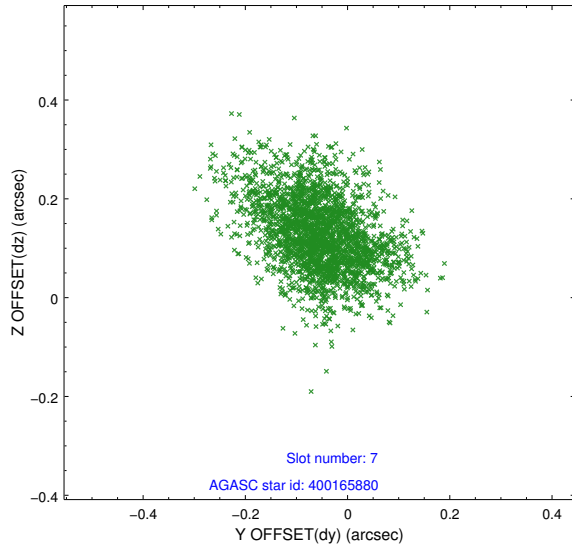
2.4.3 Slot 5



2.4.4 Slot 6

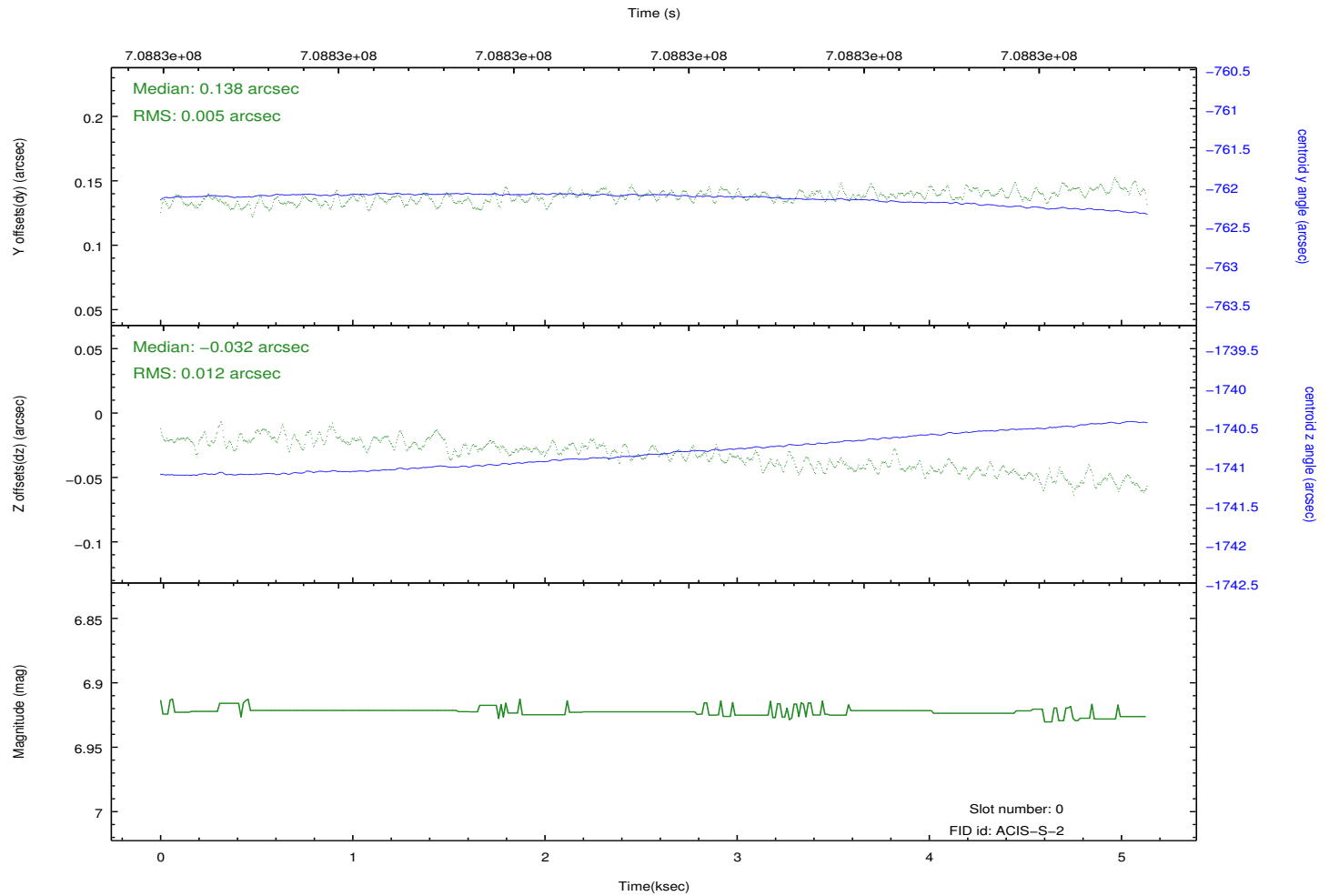
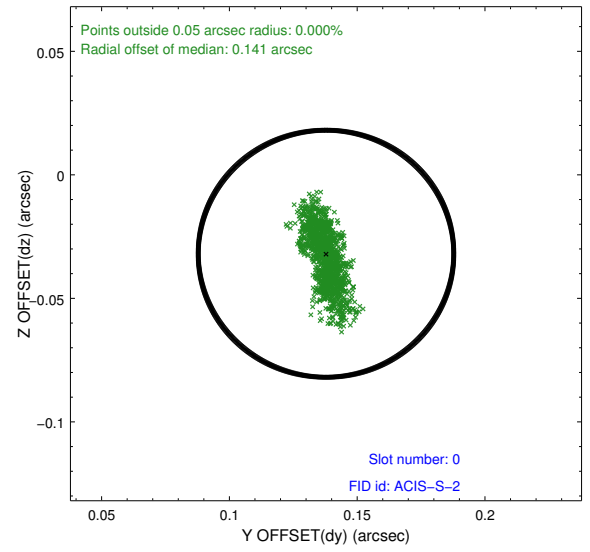
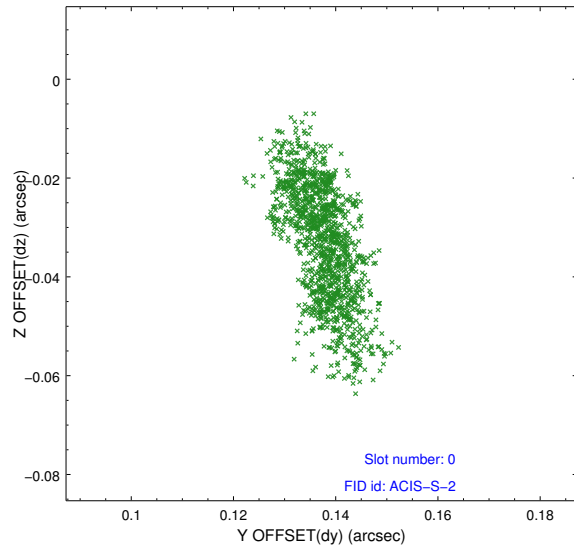


2.4.5 Slot 7

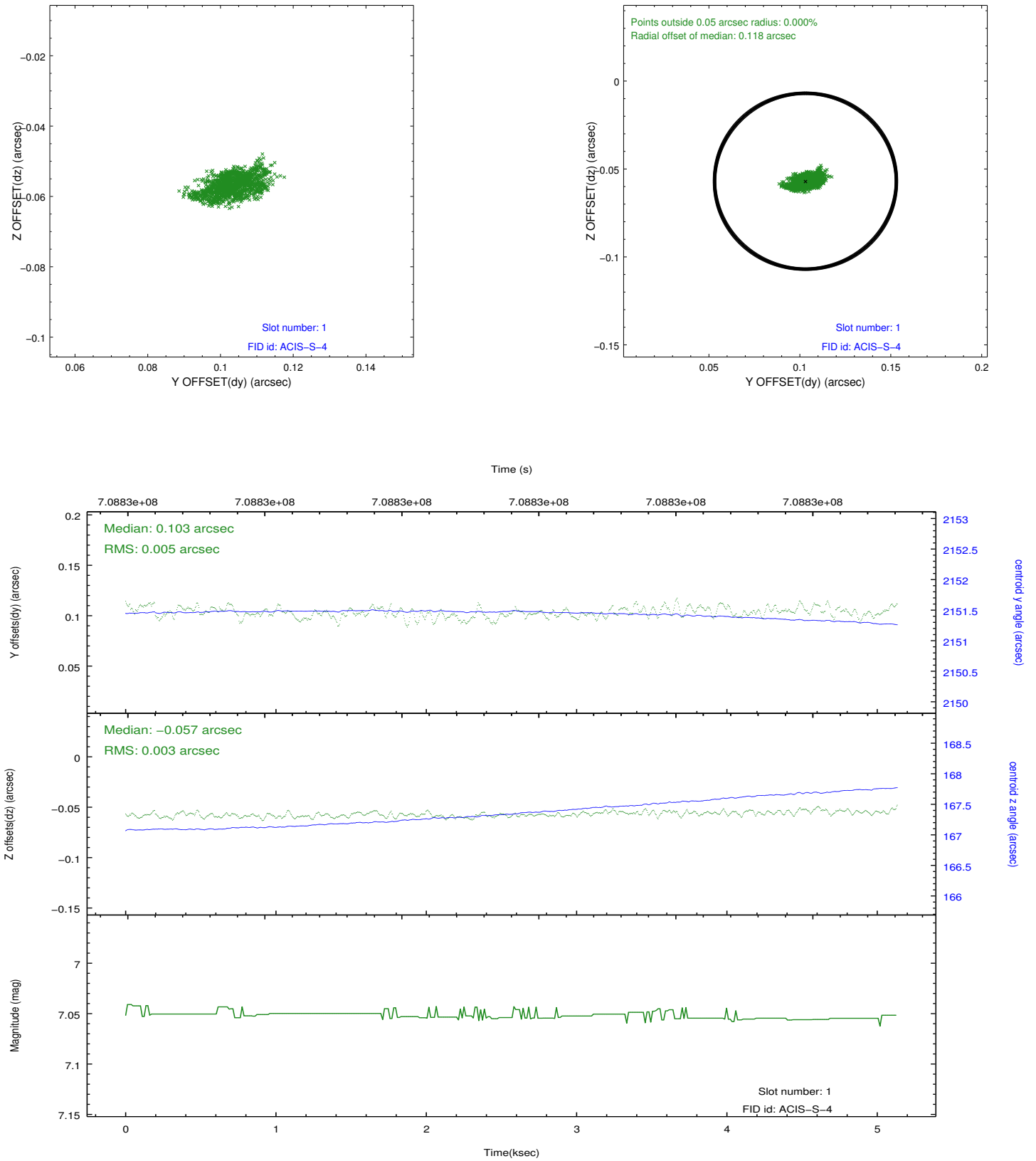


2.5 FID Slots

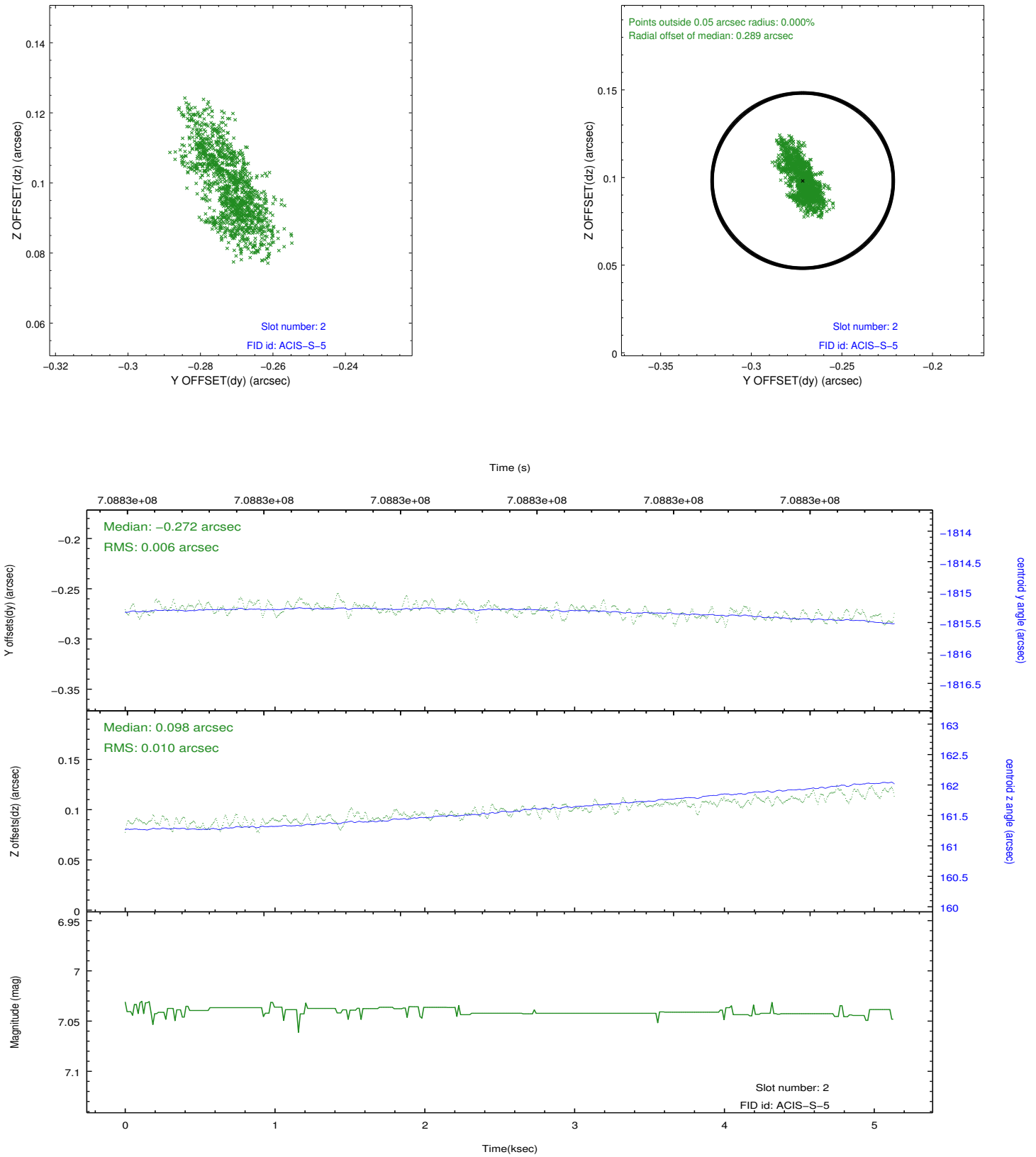
2.5.1 Slot 0



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)	2020.06.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1112366988659

A.2 Comments