

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22201 - L2 Version 1
Chandra X-Ray Center

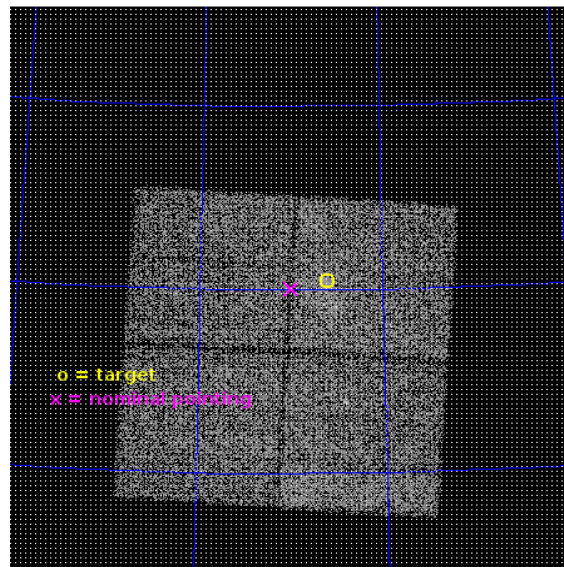
L2 Processing Date : May 3 2019

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1 Front

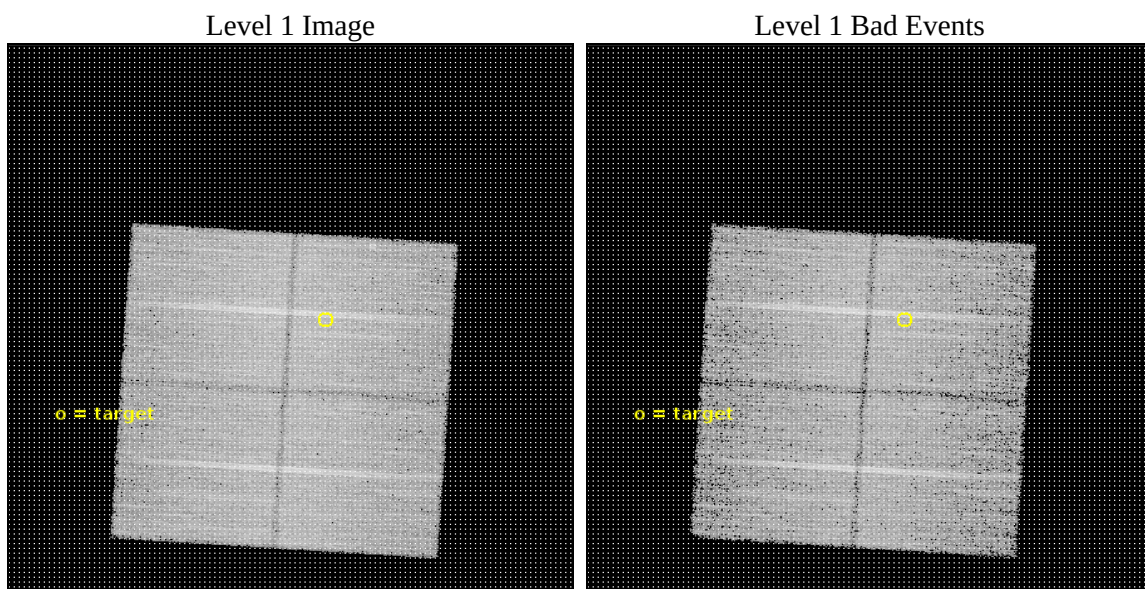
seq_num	801796	Sequence number
obs_id	22201	Observation id
title	Clusters in Formation - The Case of 3C61.1 and A Luminous AGN in a Merging Cluster	Proposal title
observer	Ralph Kraft	Principal investigator
object	X-CLASS 1835 (3C61.1)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	35.75	Observer's specified target RA [deg]
dec_targ	86.341667	Observer's specified target Dec [deg]
ra_nom	36.246646645036	Nominal RA [deg]
dec_nom	86.334628690508	Nominal Dec [deg]
roll_nom	3.7130701655765	Nominal Roll [deg]
revision	1	Processing version of data
ontime	22071.959129572	Sum of GTIs [s]
livetime	21783.572734404	Livetime [s]
ontime0	22075.100169897	Sum of GTIs [s]
ontime1	22071.959179163	Sum of GTIs [s]
ontime2	22075.100169897	Sum of GTIs [s]
ontime3	22071.959129572	Sum of GTIs [s]
l2events	63091	Number of level 2 events



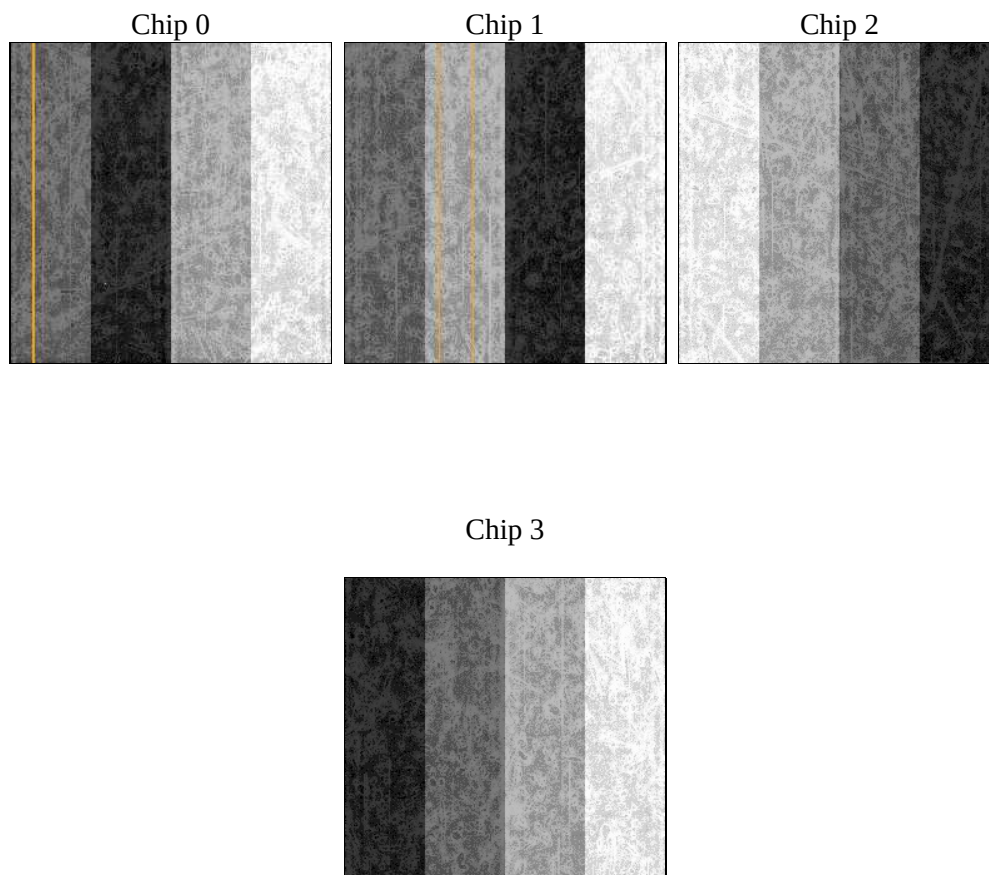
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	22071.959129572	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	22075.100169897	Sum of GTIs [s]
date	2019-05-03T14:12:01	Date and time of file creation	ontime1	22071.959179163	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	22075.100169897	Sum of GTIs [s]
			ontime3	22071.959129572	Sum of GTIs [s]
			l1events	642618	Number of level 1 events

2.1.4 Events

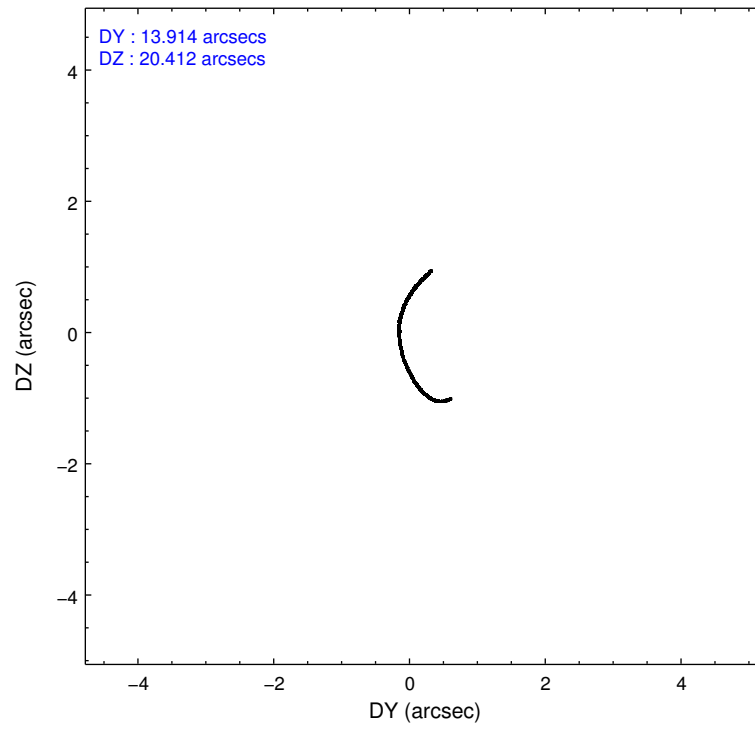
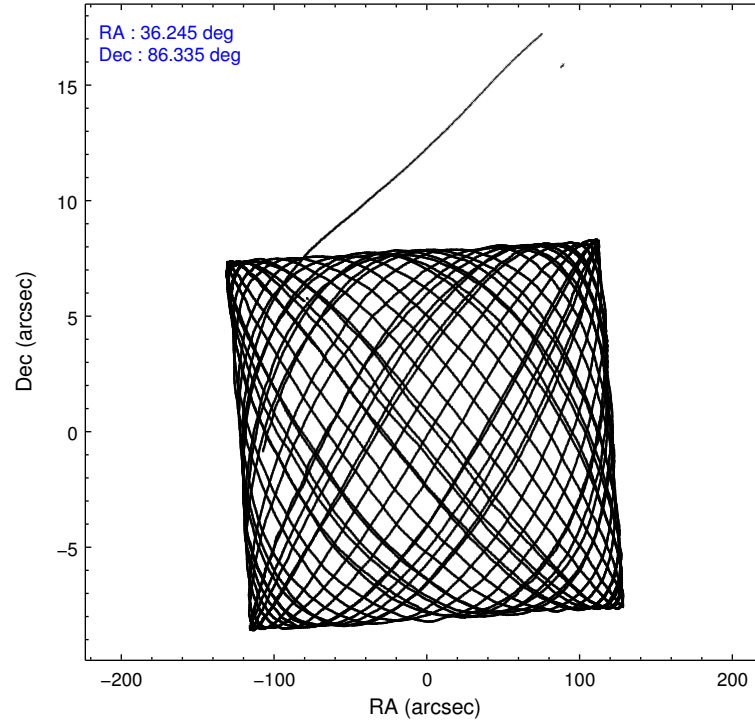
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	150791	156349	173184	162294
rejected events	132292	135974	155291	143600
rejected %	87%	86%	89%	88%

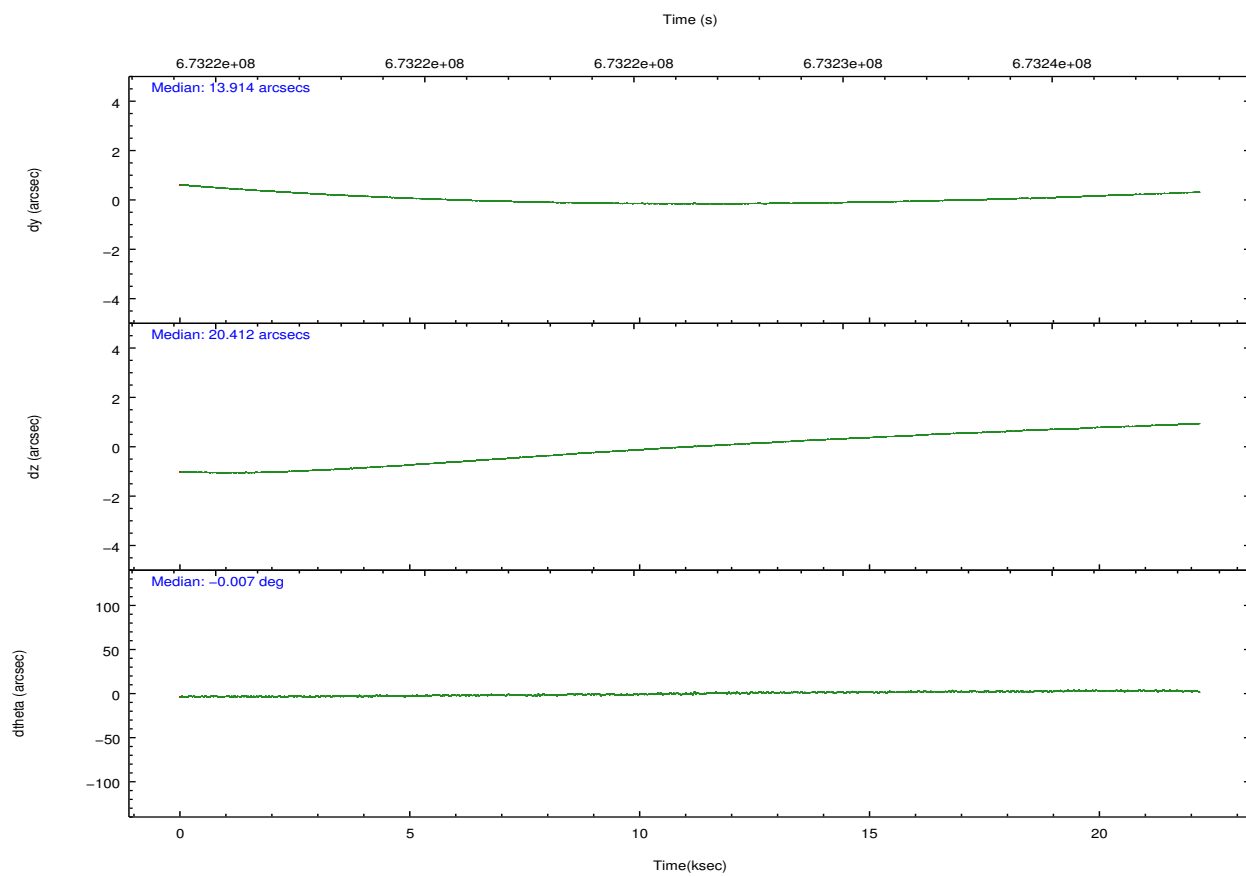
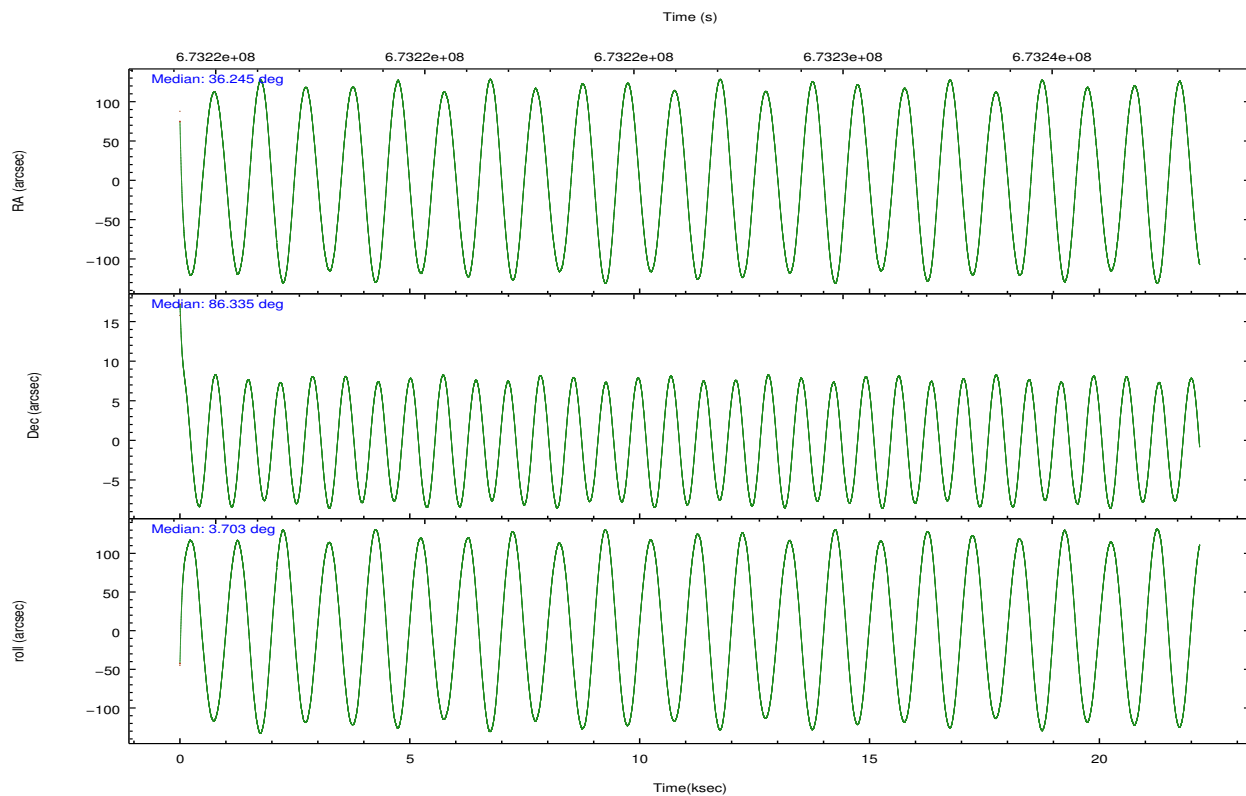
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	6118	6343	6282	7264
	4%	4%	3%	4%
grade 1 events	67	86	96	114
	0%	0%	0%	0%
grade 2 events	4774	5610	4435	3972
	3%	3%	2%	2%
grade 3 events	1899	1845	1820	1849
	1%	1%	1%	1%
grade 4 events	1681	1865	1804	1811
	1%	1%	1%	1%
grade 5 events	6817	7017	6531	7836
	4%	4%	3%	4%
grade 6 events	4033	4715	3556	3804
	2%	3%	2%	2%
grade 7 events	125402	128868	148660	135644
	83%	82%	85%	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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	35.890002	36.24664664503587	CCD I2 on	Y	Y
[deg] Pointing Dec	86.319138	86.33462869050797	CCD I3 on	Y	Y
[deg] Pointing Roll	3.860275	3.713070165576461	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-225.842463	-225.8433433320239	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.749109670905796	CCD S4 on	N	N
[s] Observation start time (MET)	673215446.184000	673214323.679	CCD S5 on	N	N
Observation start date	2019-05-02T20:16:17	2019-05-02T19:58:43	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	673237446.184000	673238603.36795	On-chip summing requested	N	N
Observation end date	2019-05-03T02:22:57	2019-05-03T02:43:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



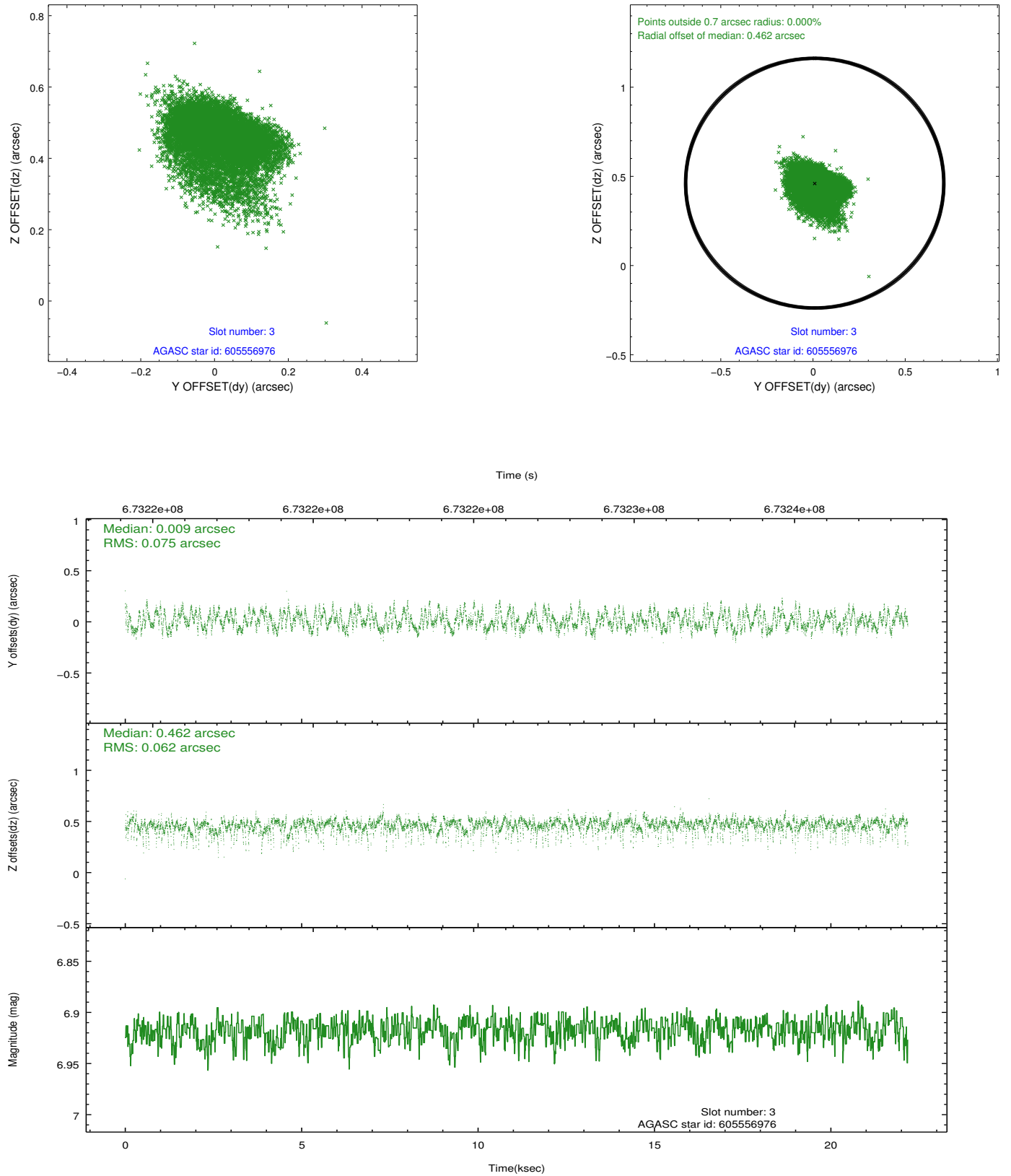


Slot Statistics

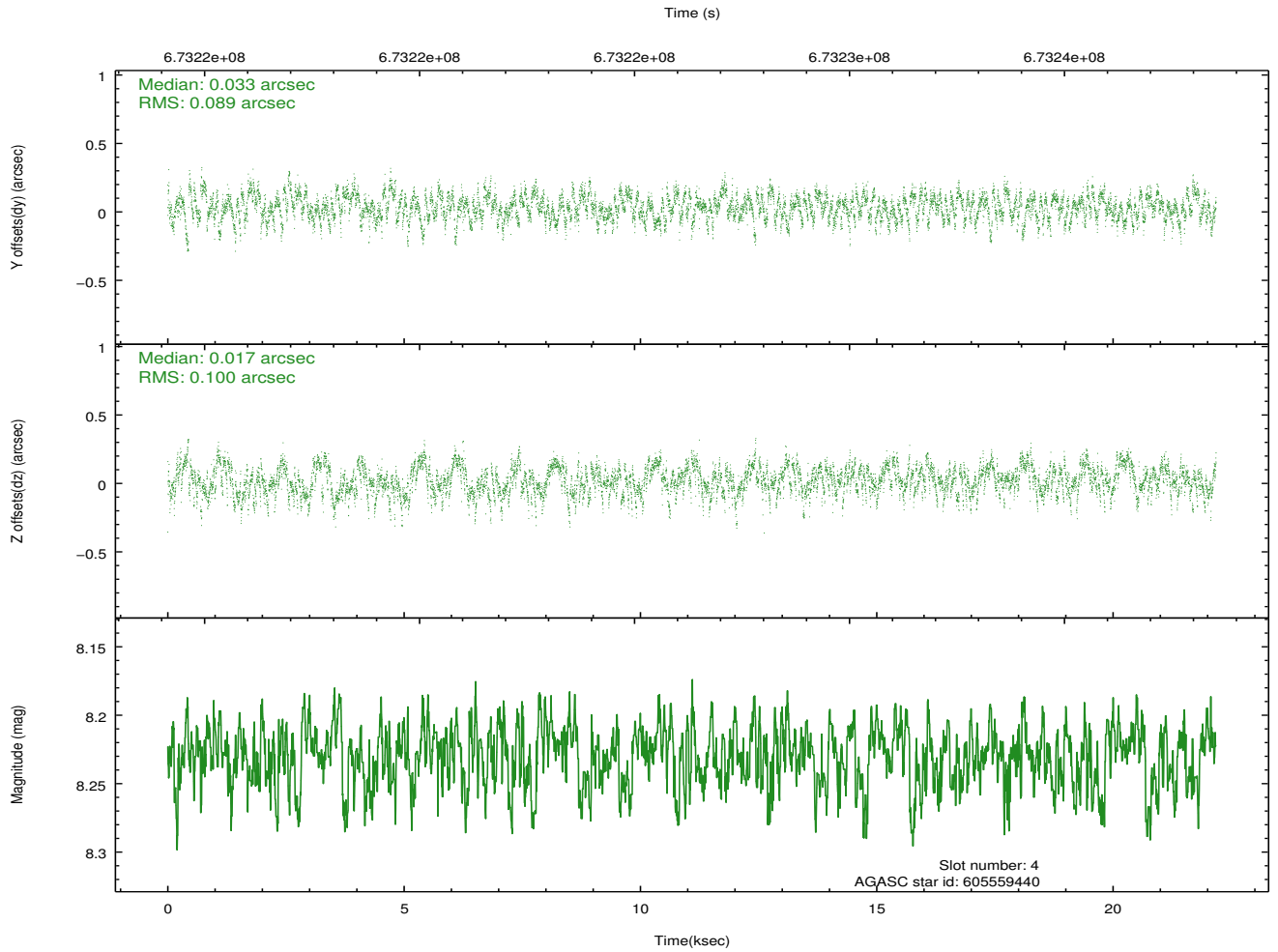
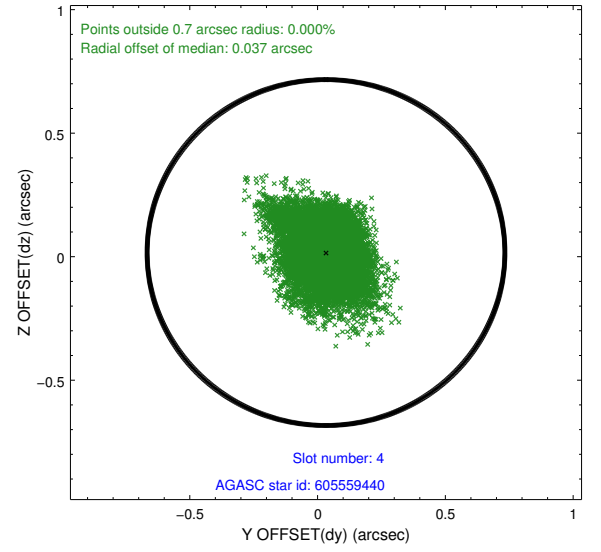
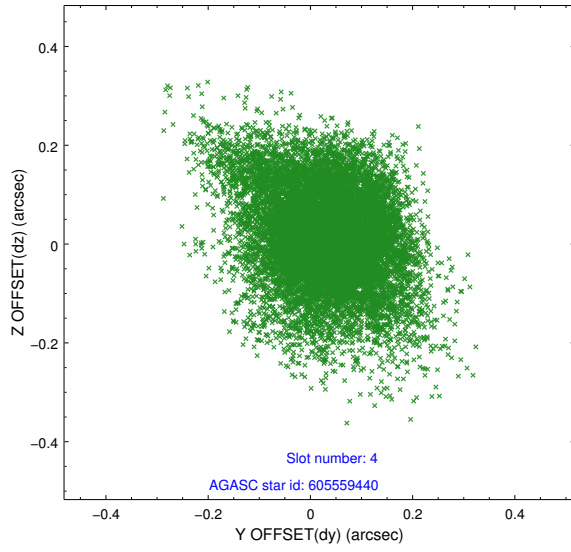
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.20	5410	1.000	0.162	-0.199	0.034	0.070	0.000000	0.000000	925.63	-1003
1	FID		ACIS-I-5	7.23	5410	1.000	-0.559	0.038	0.017	0.022	0.000000	0.000000	-1823.29	894
2	FID		ACIS-I-6	7.25	5411	1.000	0.306	0.227	0.023	0.052	0.000000	0.000000	390.92	1539
3	GUIDE	used	605556976	6.92	10821	1.000	0.009	0.462	0.102	0.170	34.748698	85.736157	-444.93	-2068
4	GUIDE	used	605559440	8.23	10817	1.000	0.033	0.017	0.140	0.234	41.642951	85.799283	1391.75	-1893
5	GUIDE	used	606079672	8.63	10817	1.000	0.002	-0.299	0.109	0.233	35.254825	86.761950	-21.18	1599
6	GUIDE	used	606080224	8.35	10816	1.000	-0.019	-0.316	0.127	0.215	30.895322	86.931799	-806.86	2306
7	GUIDE	used	605950112	9.08	10807	1.000	-0.007	0.128	0.133	0.224	26.075476	86.738629	-1882.58	1812

2.4 Star Slots

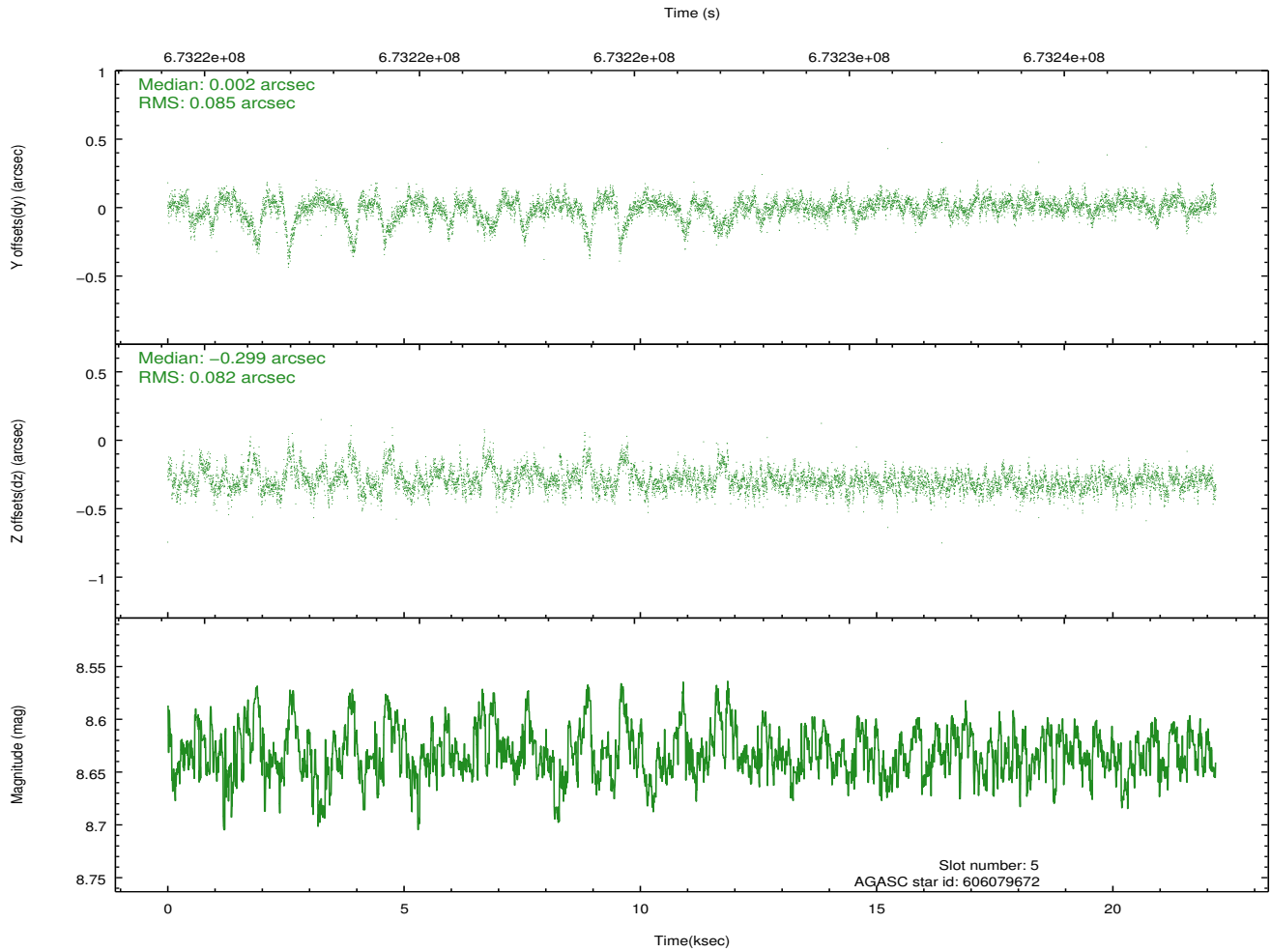
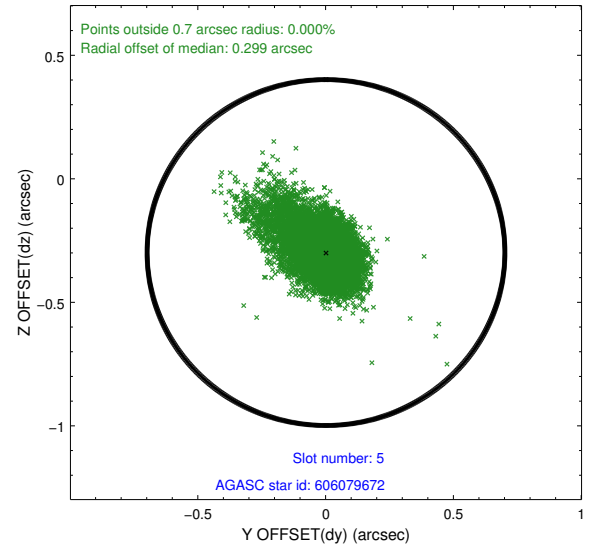
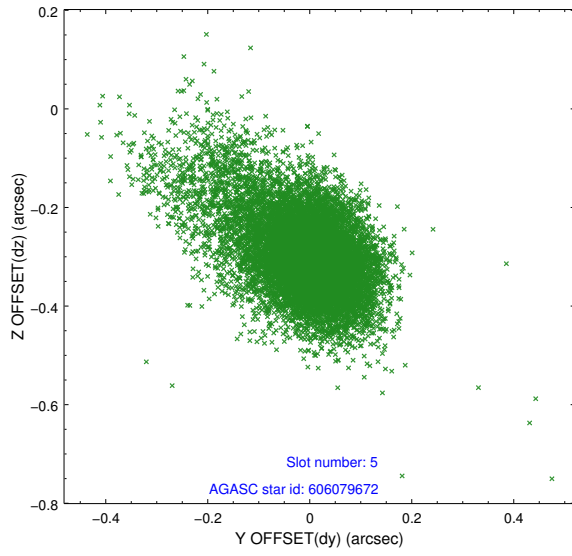
2.4.1 Slot 3



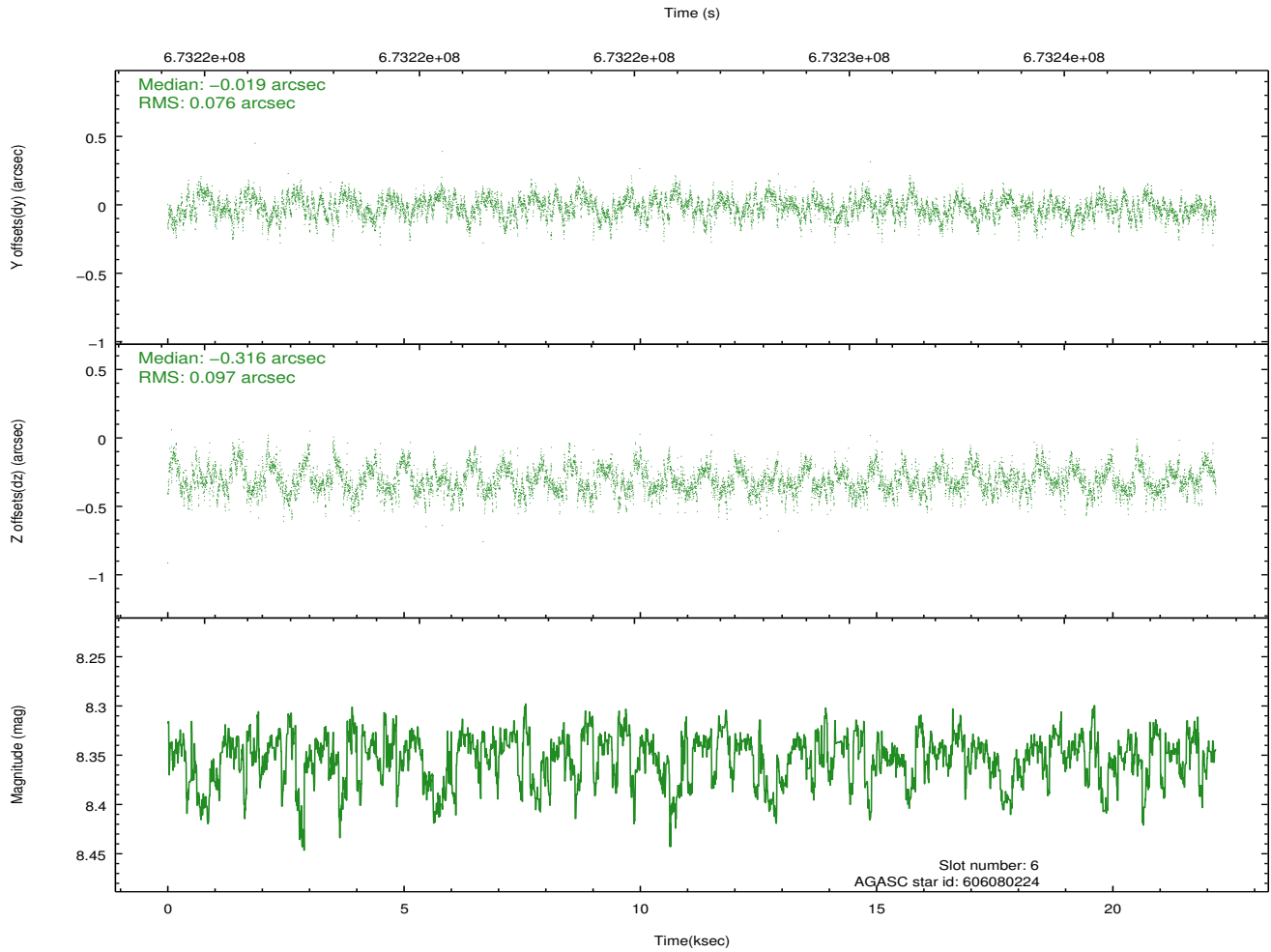
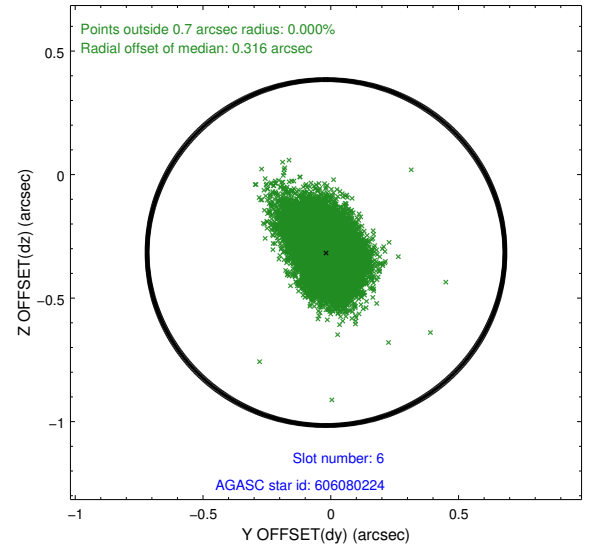
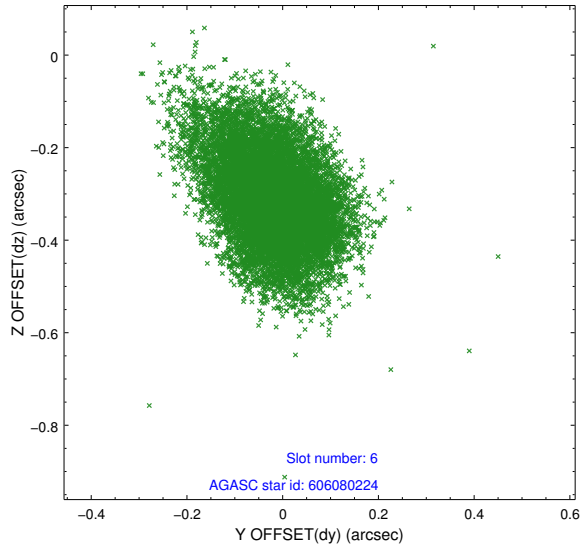
2.4.2 Slot 4



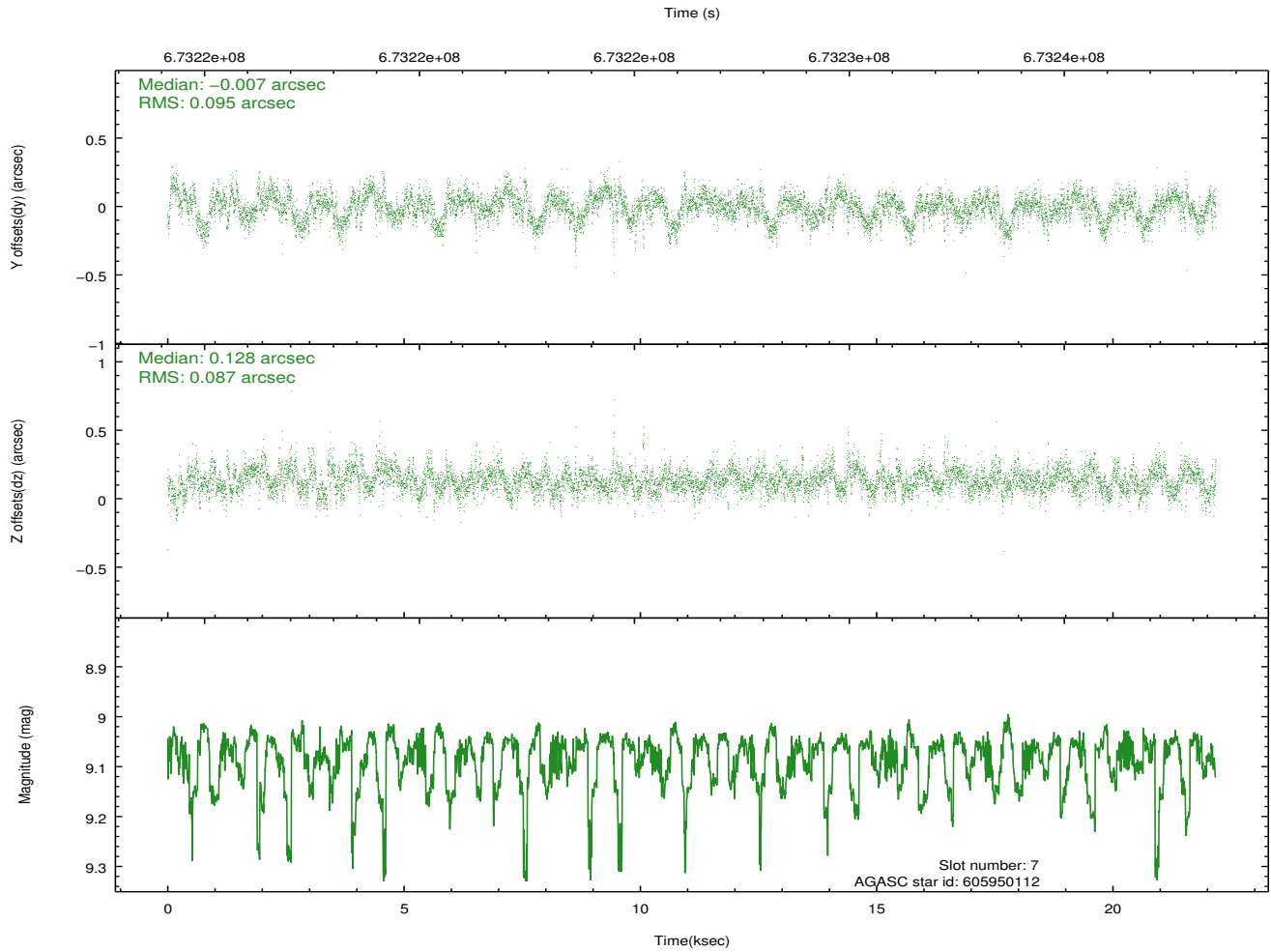
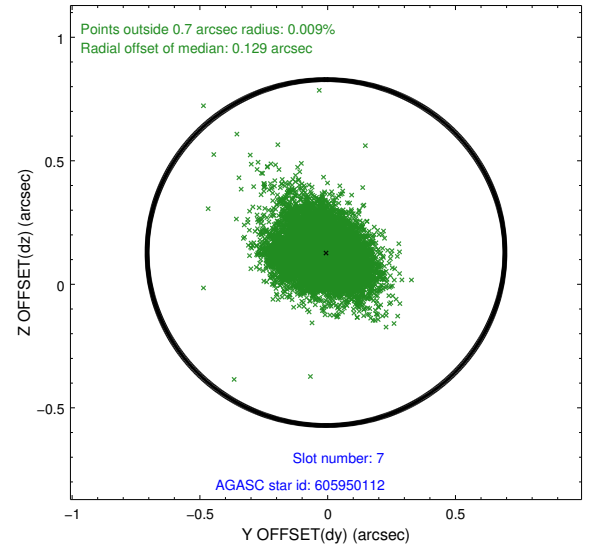
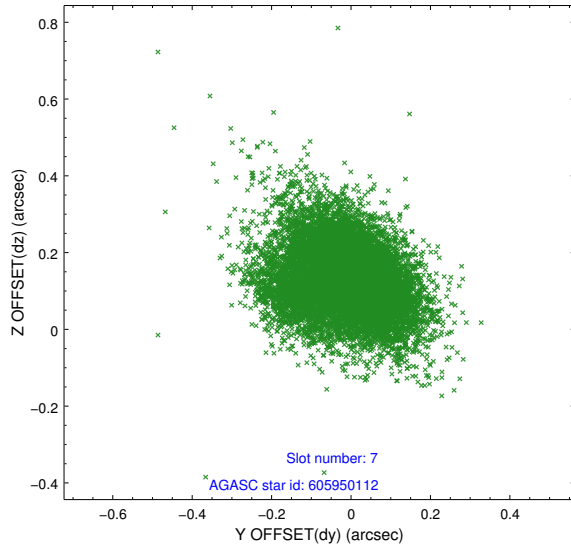
2.4.3 Slot 5



2.4.4 Slot 6

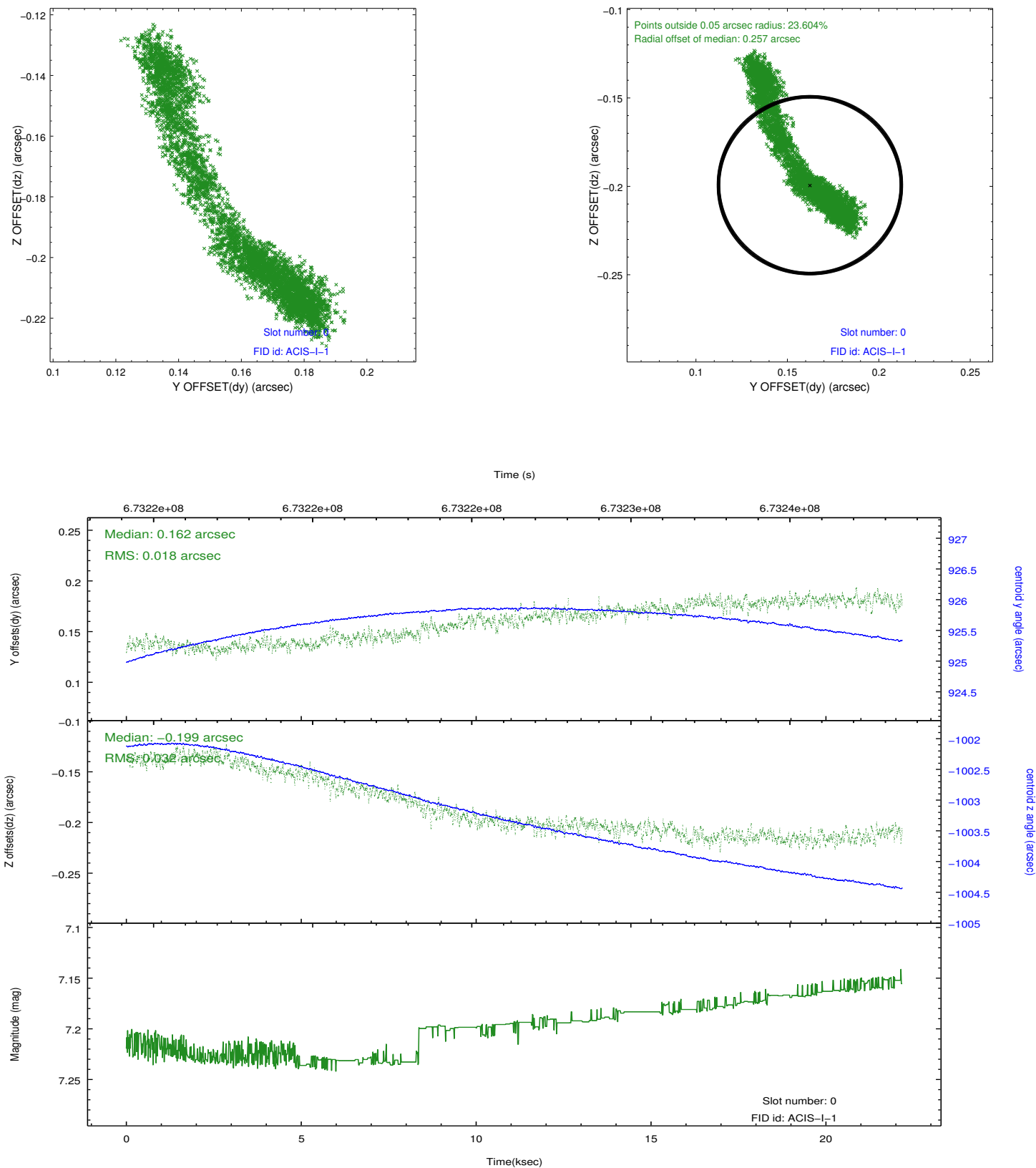


2.4.5 Slot 7

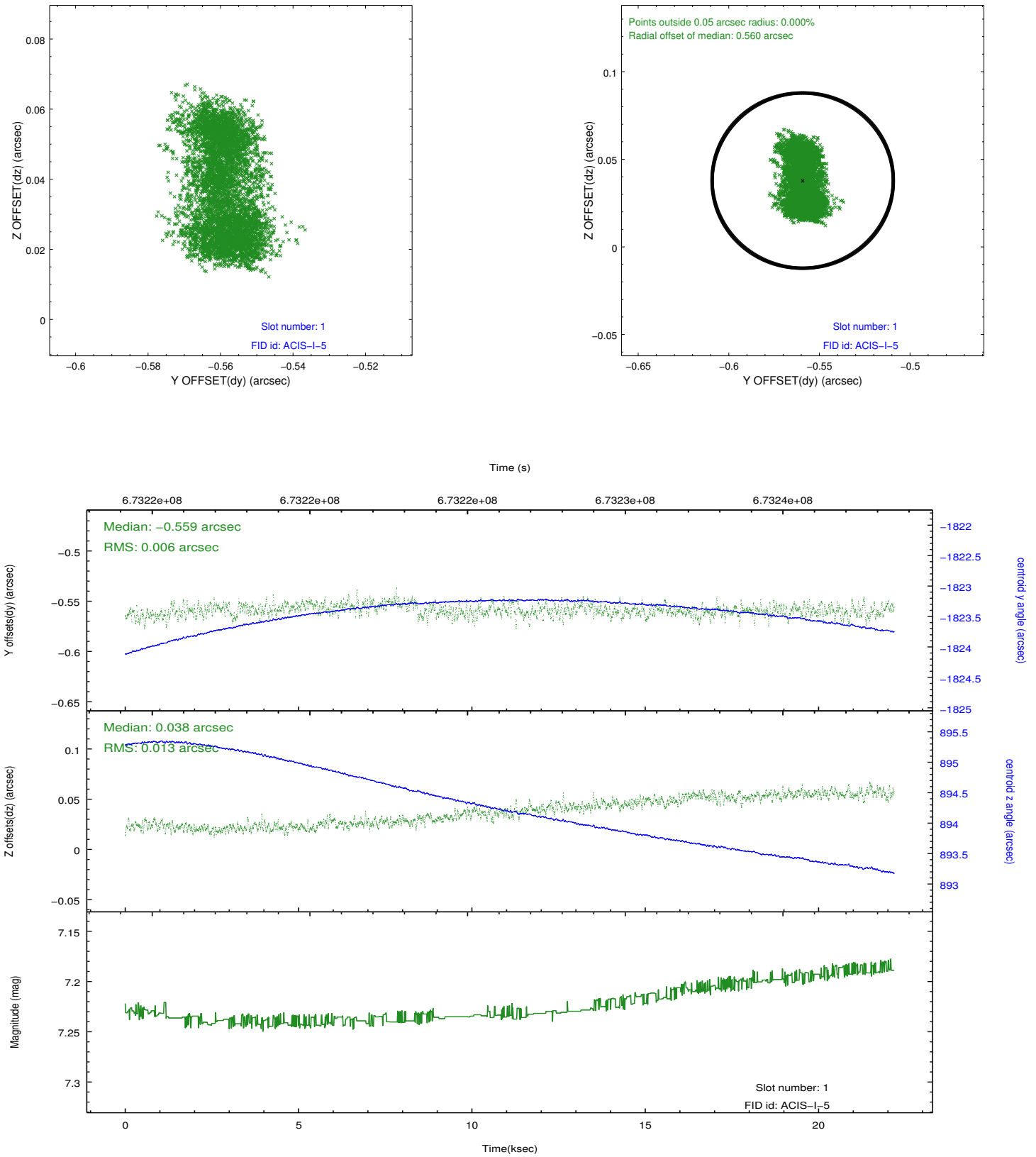


2.5 FID Slots

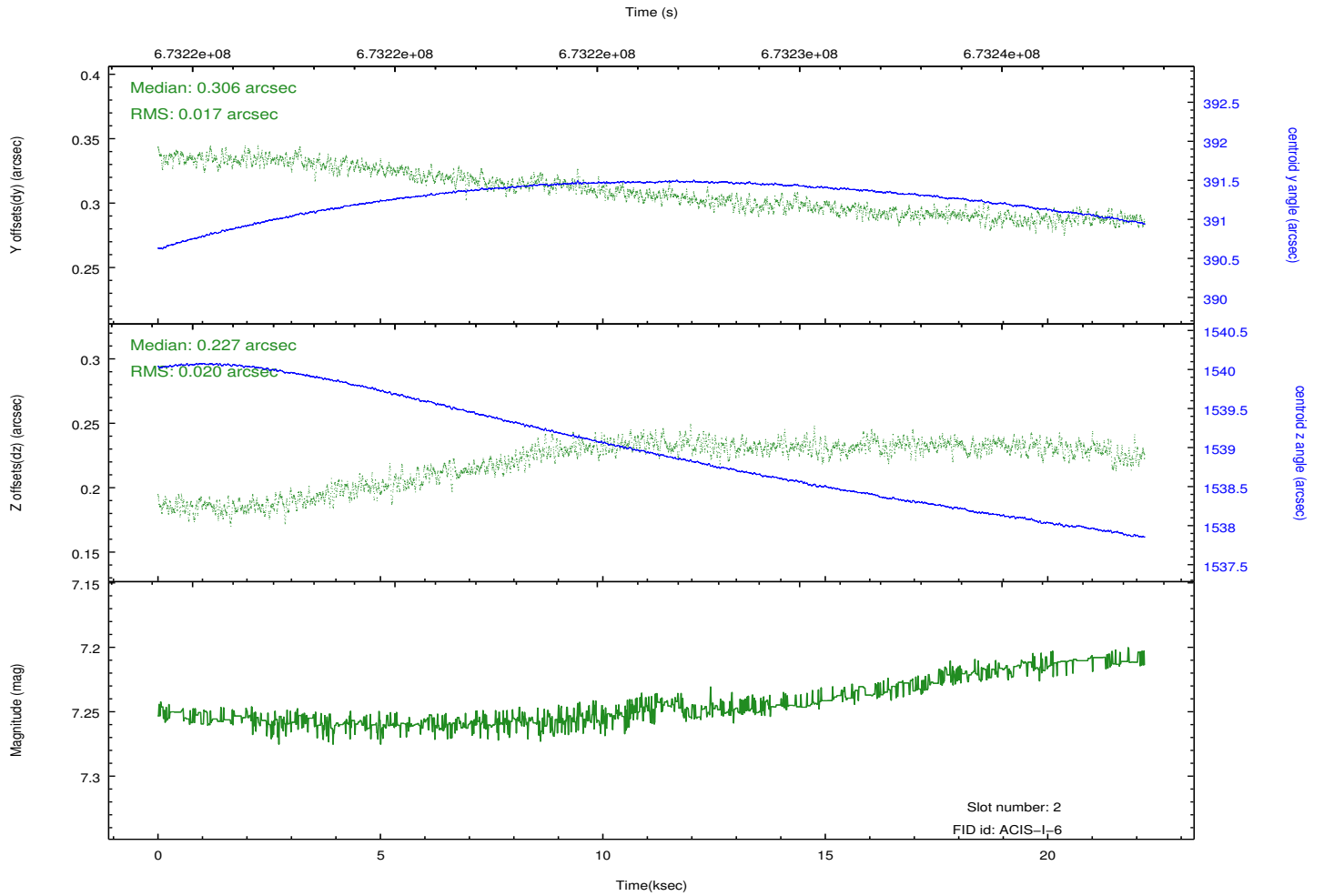
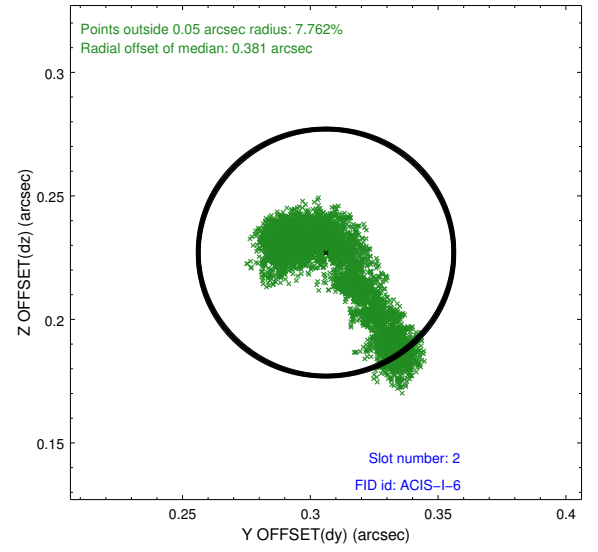
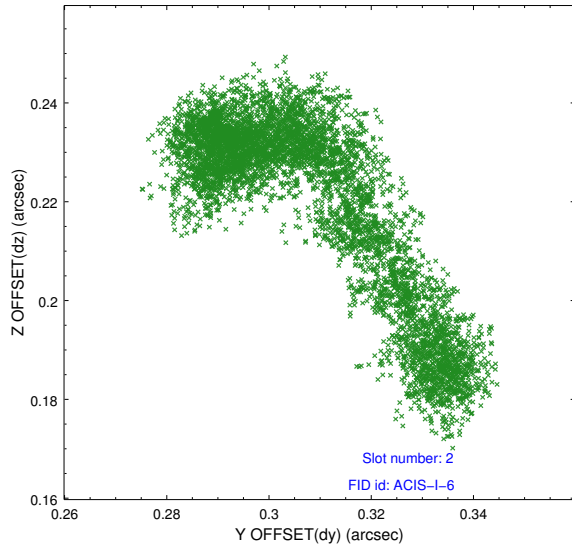
2.5.1 Slot 0



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)	2019.05.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.071959129572

A.2 Comments

One optional chip was dropped.