

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22027 - L2 Version 1
Chandra X-Ray Center

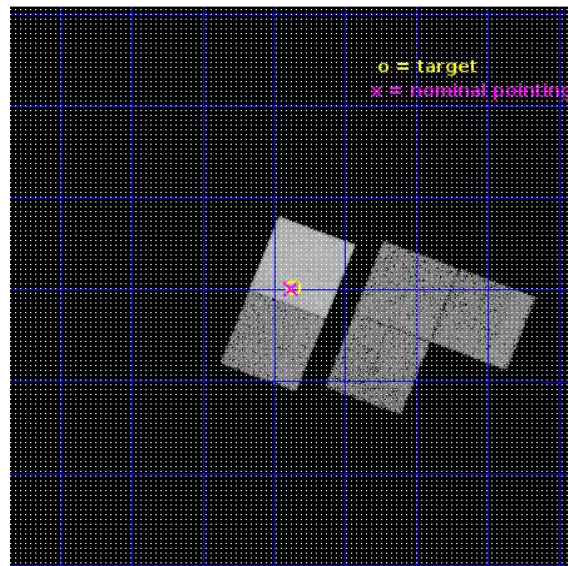
L2 Processing Date : Jan 1 2019

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1 Front

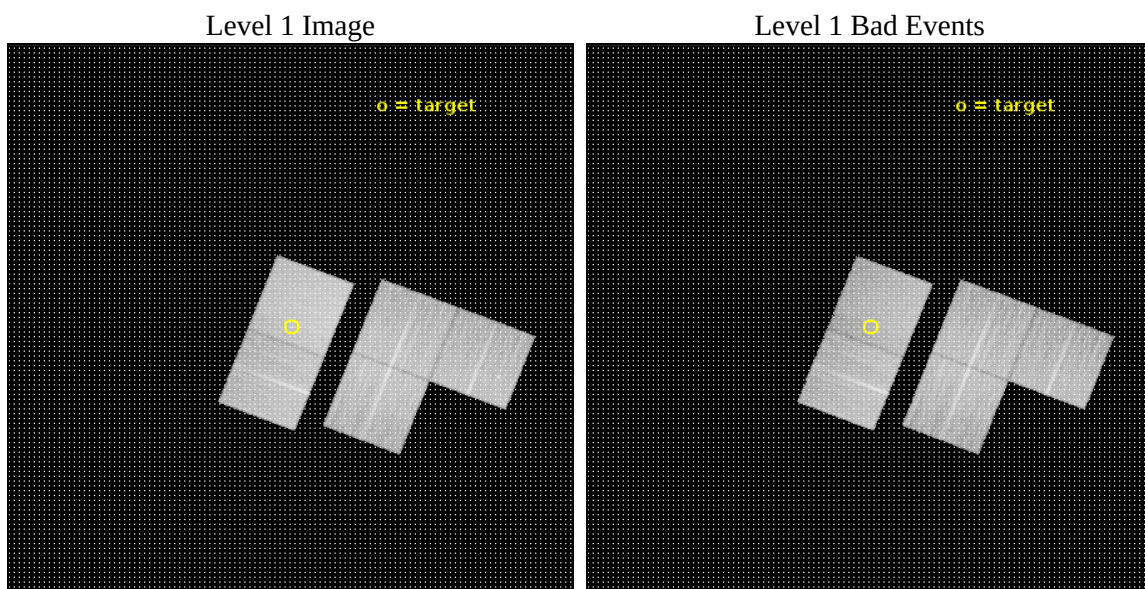
seq_num	703560	Sequence number
obs_id	22027	Observation id
title	Changing-Look Quasars: Radical Changes in Accretion Rate?	Proposal
observer	Paul Green	Principal investigator
object	CLQtooAlt1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	31.590292	Observer's specified target RA [deg]
dec_targ	-6.164639	Observer's specified target Dec [deg]
ra_nom	31.594293976303	Nominal RA [deg]
dec_nom	-6.1651567773631	Nominal Dec [deg]
roll_nom	291.15704132233	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20097.300154686	Sum of GTIs [s]
livetime	19834.714132748	Livetime [s]
ontime1	20097.300154686	Sum of GTIs [s]
ontime2	20097.300154686	Sum of GTIs [s]
ontime3	20097.300154686	Sum of GTIs [s]
ontime6	20097.300154686	Sum of GTIs [s]
ontime7	20097.300154686	Sum of GTIs [s]
l2events	139886	Number of level 2 events



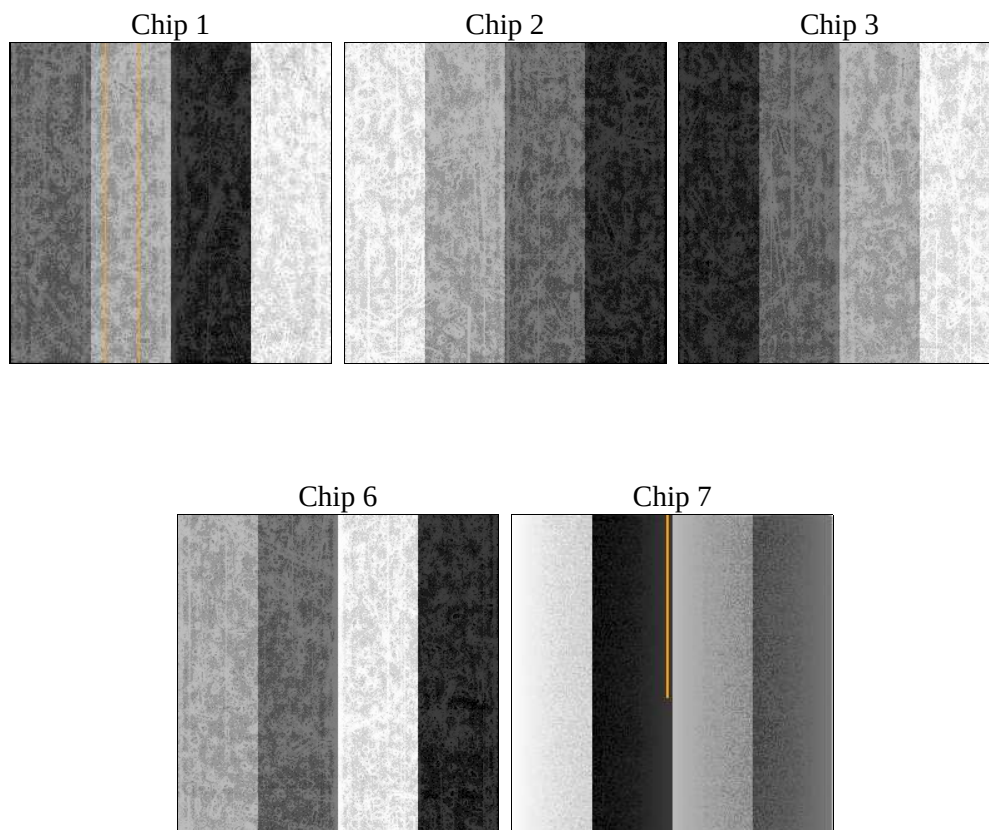
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	20097.300154686	Sum of GTIs [s]
caldsver	4.8.2	 	ontime1	20097.300154686	Sum of GTIs [s]
date	2019-01-01T06:10:13	Date and time of file creation	ontime2	20097.300154686	Sum of GTIs [s]
revision	1	Processing version of data	ontime3	20097.300154686	Sum of GTIs [s]
			ontime6	20097.300154686	Sum of GTIs [s]
			ontime7	20097.300154686	Sum of GTIs [s]
			l1events	810116	Number of level 1 events

2.1.4 Events

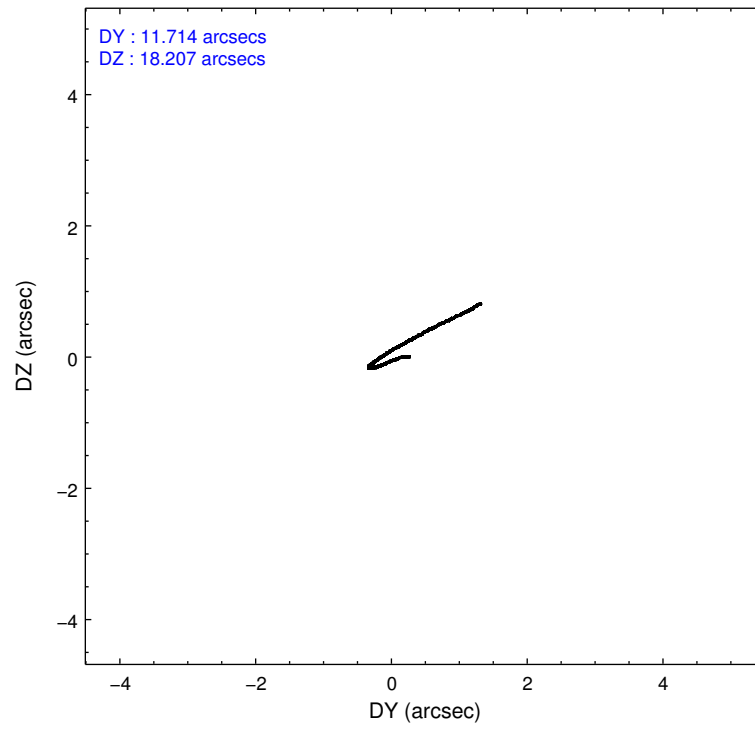
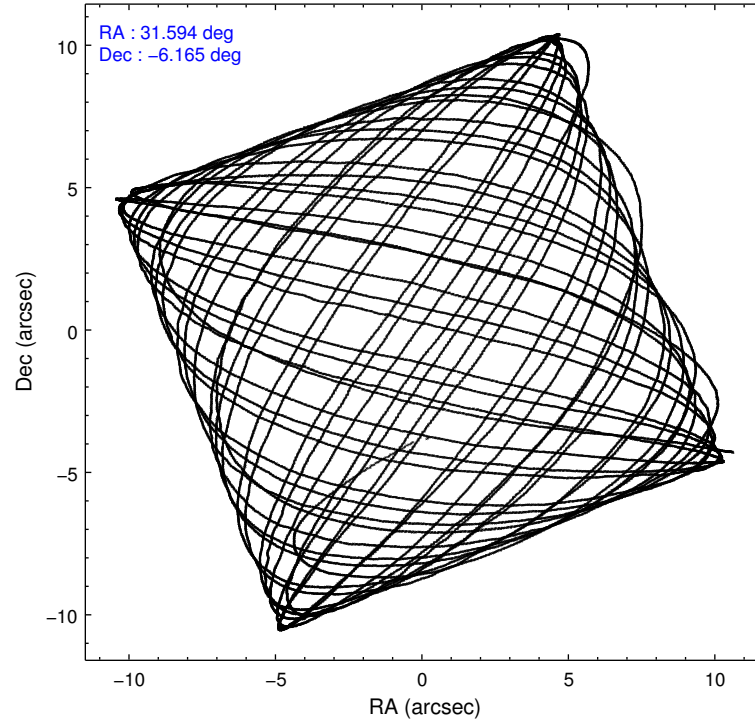
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	143727	157012	149192	162127	198058
rejected events	125058	141160	133714	144817	113012
rejected %	87%	89%	89%	89%	57%

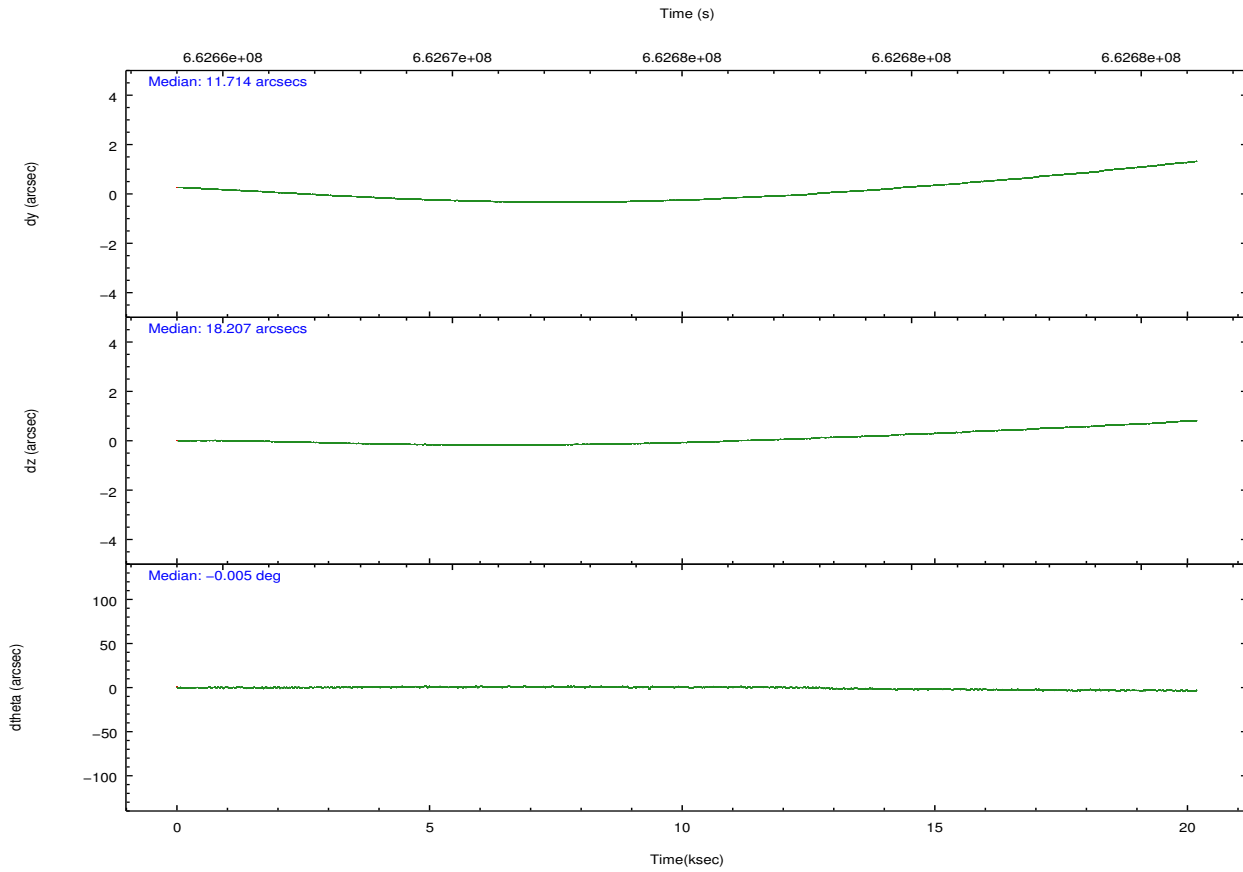
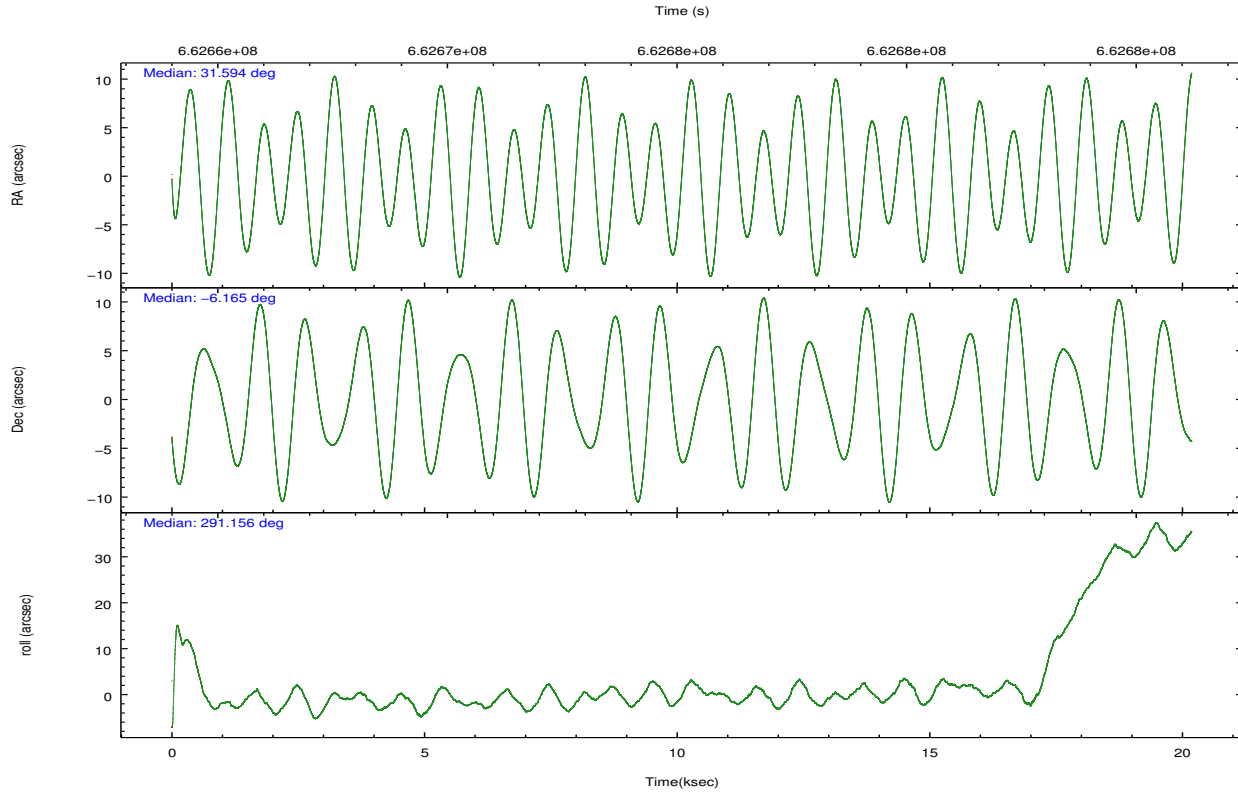
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	6297	5550	5319	5552	6951
	4%	3%	3%	3%	3%
grade 1 events	68	84	76	86	306
	0%	0%	0%	0%	0%
grade 2 events	4844	3915	3530	4209	18325
	3%	2%	2%	2%	9%
grade 3 events	1649	1671	1697	1628	6568
	1%	1%	1%	1%	3%
grade 4 events	1640	1587	1634	1610	6434
	1%	1%	1%	0%	3%
grade 5 events	6322	5855	7119	7138	19010
	4%	3%	4%	4%	9%
grade 6 events	4241	3132	3299	4313	46780
	2%	1%	2%	2%	23%
grade 7 events	118666	135218	126518	137591	93684
	82%	86%	84%	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-12367	ACIS-12367	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	O1	Y
[deg] Pointing RA	31.572571	31.59429397630274	CCD I2 on	Y	Y
[deg] Pointing Dec	-6.148211	-6.165156777363085	CCD I3 on	Y	Y
[deg] Pointing Roll	290.998101	291.1570413223251	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	662665196.184000	662664073.89823	CCD S5 on	N	N
Observation start date	2018-12-31T17:38:47	2018-12-31T17:21:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	662685196.184000	662685900.76203	On-chip summing requested	N	N
Observation end date	2018-12-31T23:12:07	2018-12-31T23:25:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



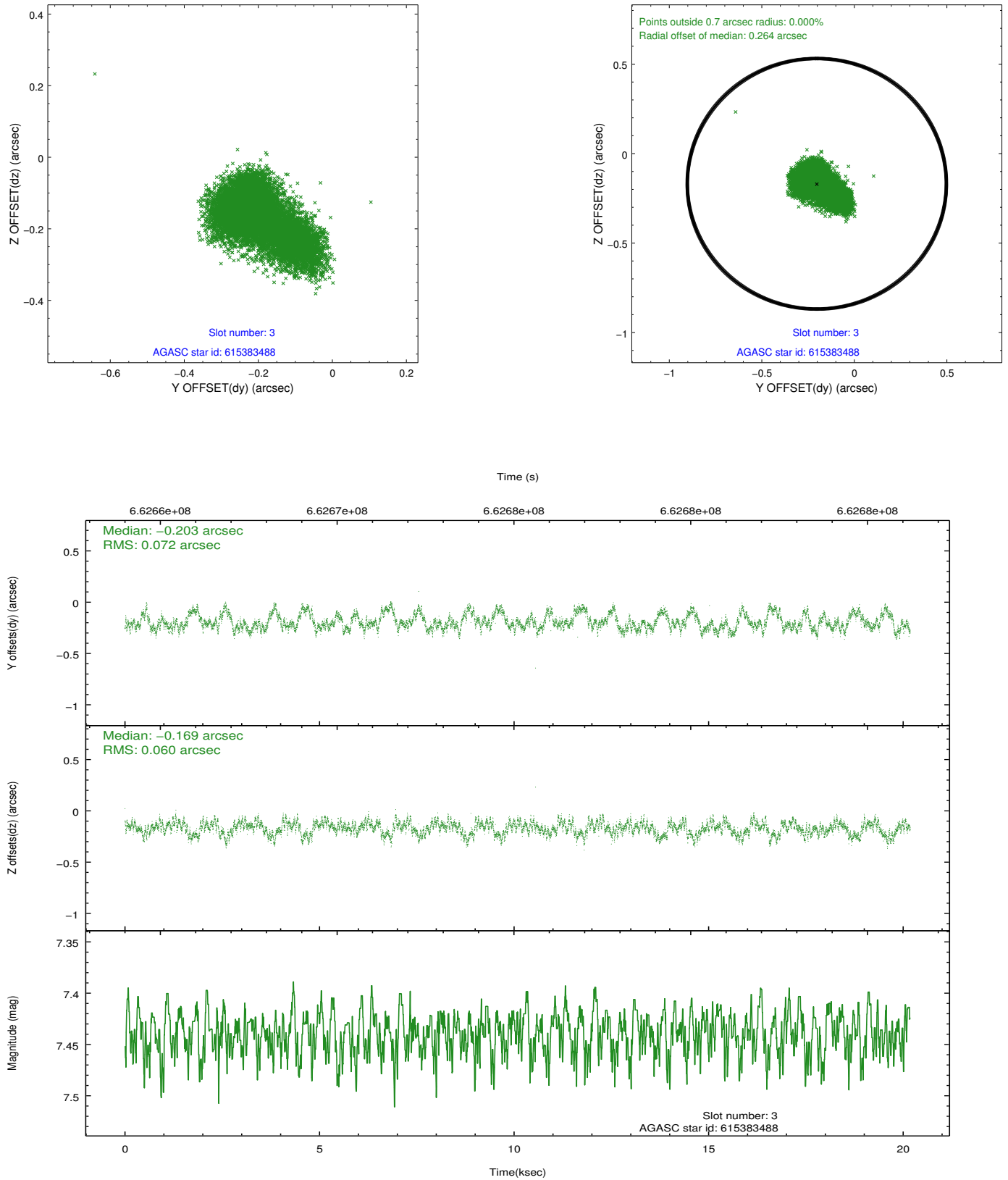


Slot Statistics

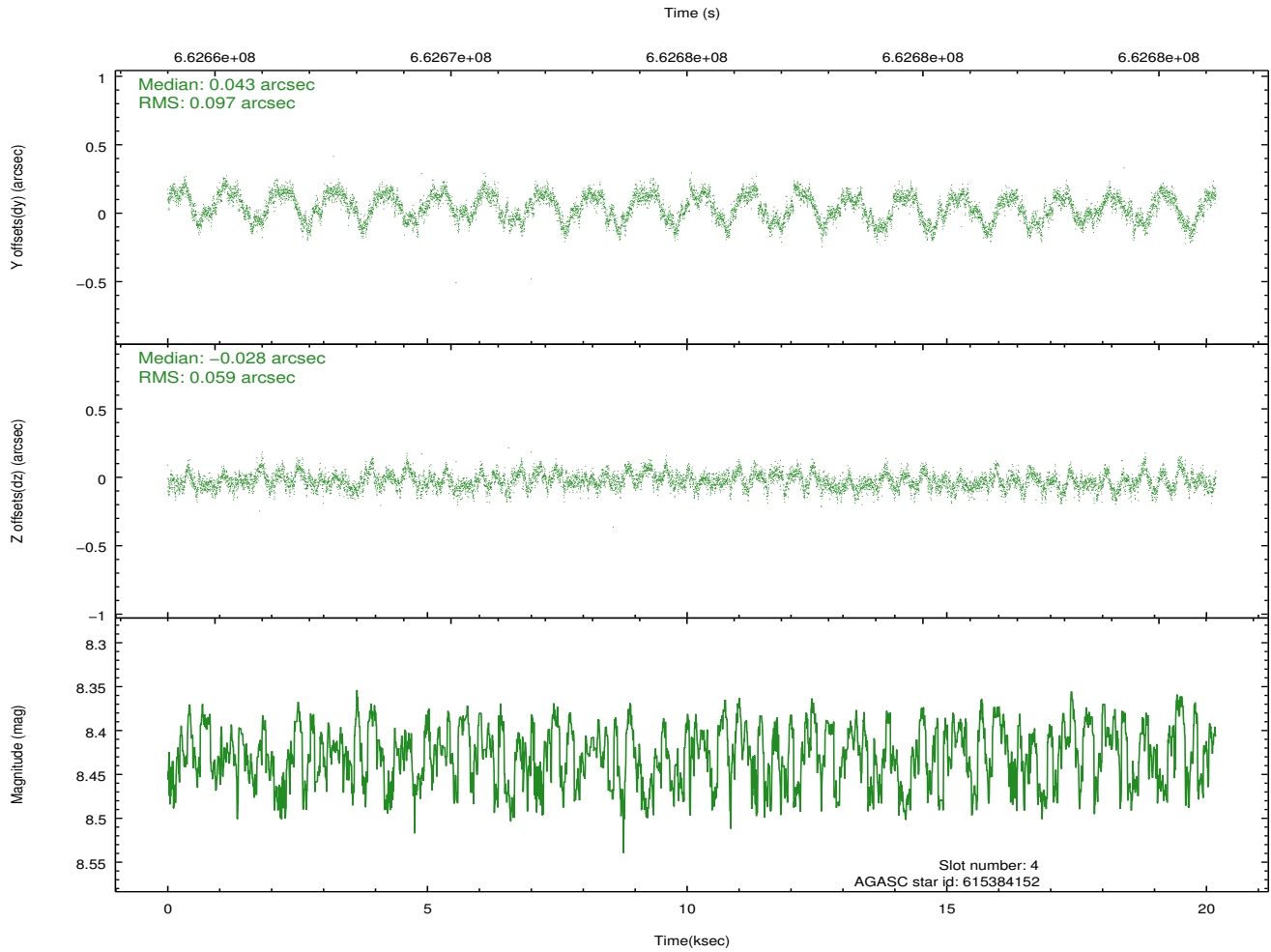
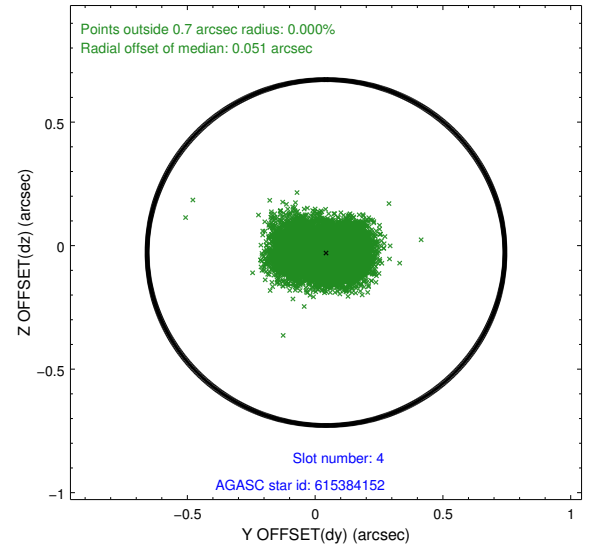
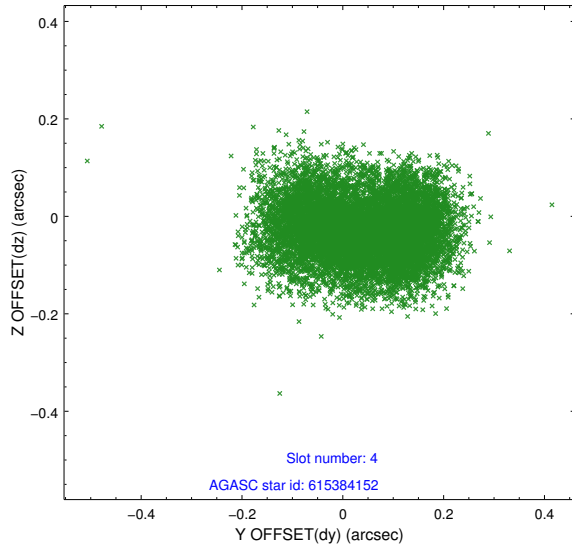
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.05	4923	1.000	-0.261	-0.195	0.009	0.016	0.000000	0.000000	-764.95	-1739
1	FID		ACIS-S-4	7.17	4922	1.000	0.697	0.178	0.012	0.042	0.000000	0.000000	2149.16	168
2	FID		ACIS-S-5	7.15	4923	1.000	-0.470	0.026	0.013	0.041	0.000000	0.000000	-1817.82	162
3	GUIDE	used	615383488	7.44	9845	1.000	-0.203	-0.169	0.099	0.169	32.110315	-6.469610	1770.59	1380
4	GUIDE	used	615384152	8.43	9838	1.000	0.043	-0.028	0.124	0.187	31.875647	-6.364033	1114.53	734
5	GUIDE	used	615387648	7.55	9844	1.000	-0.027	0.076	0.174	0.243	31.673414	-5.777737	-1115.21	815
6	GUIDE	used	615389936	8.99	9832	1.000	-0.153	-0.209	0.190	0.282	32.078605	-5.743445	-710.09	2214
7	GUIDE	used	615390216	7.64	9840	1.000	0.328	0.332	0.087	0.137	31.061043	-5.710942	-2125.35	-1145

2.4 Star Slots

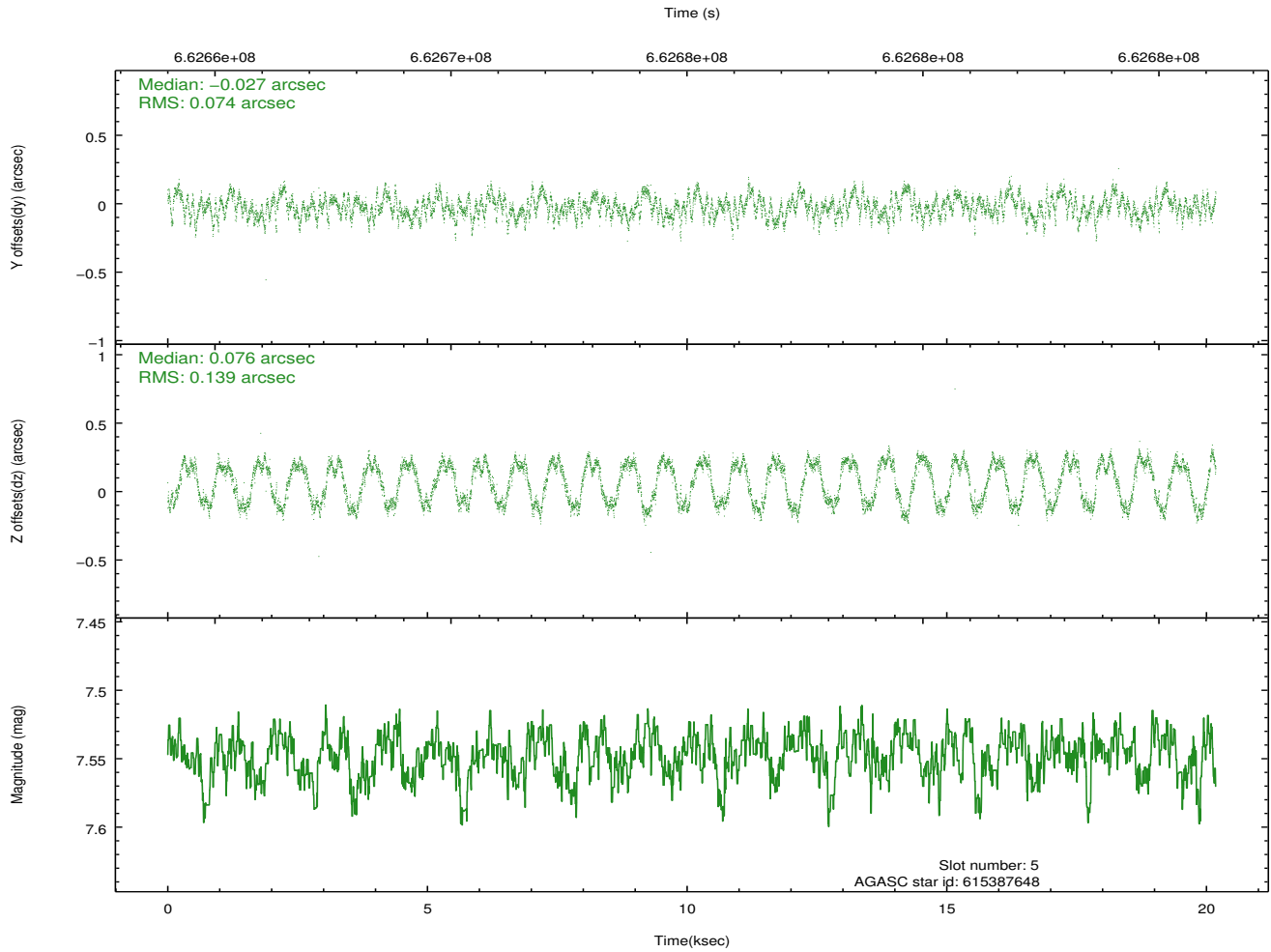
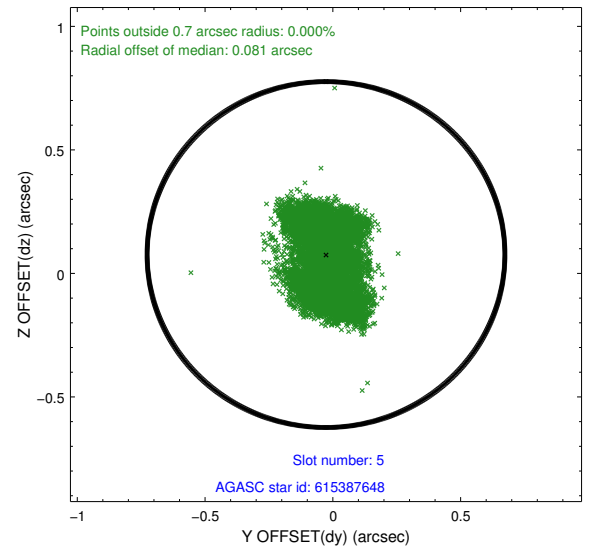
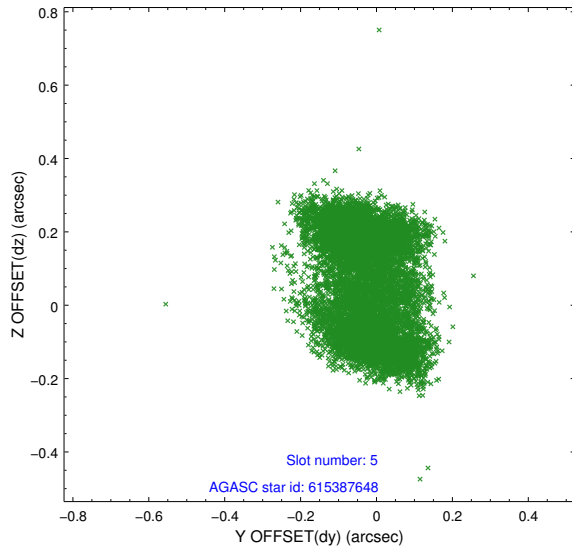
2.4.1 Slot 3



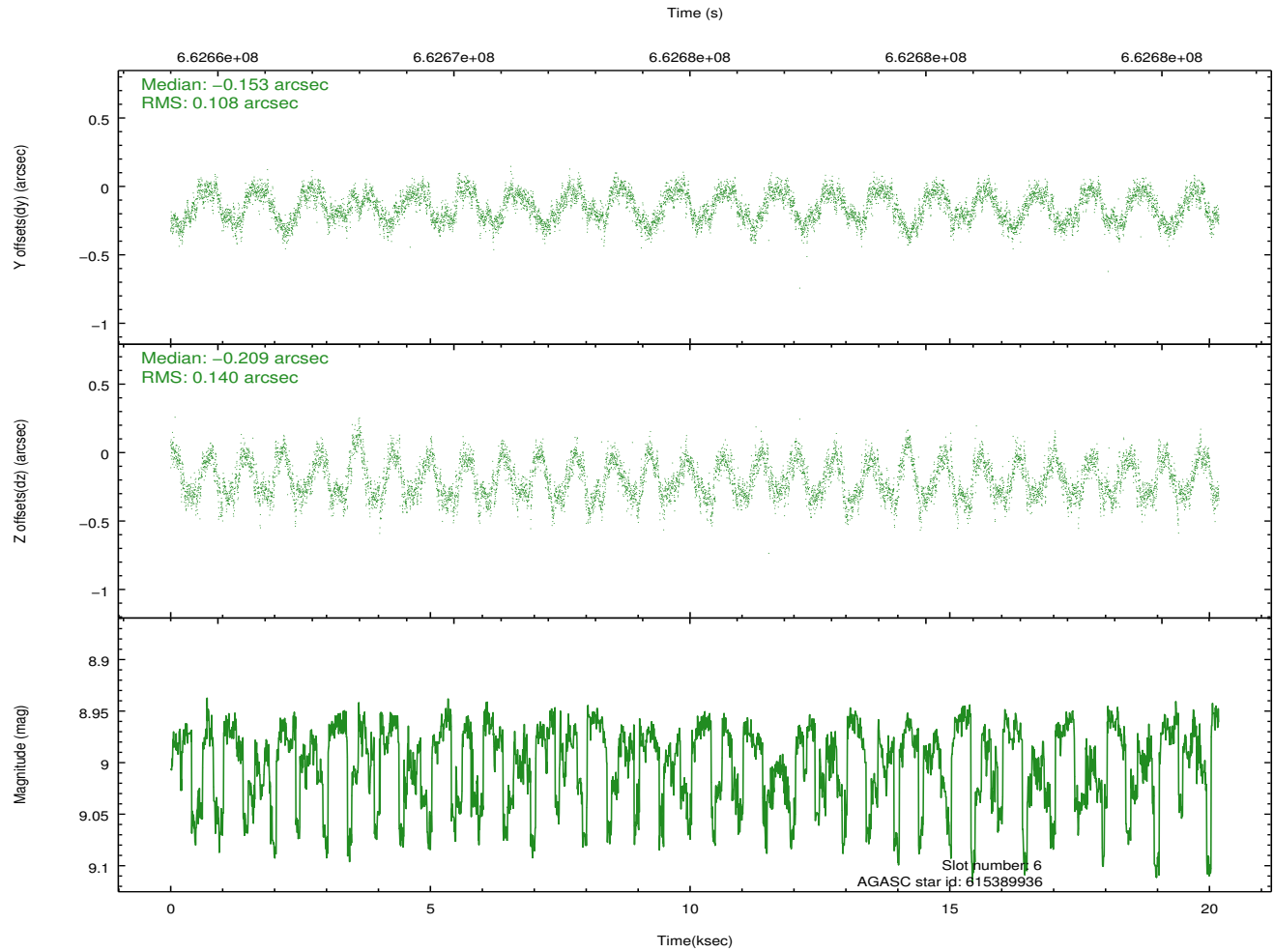
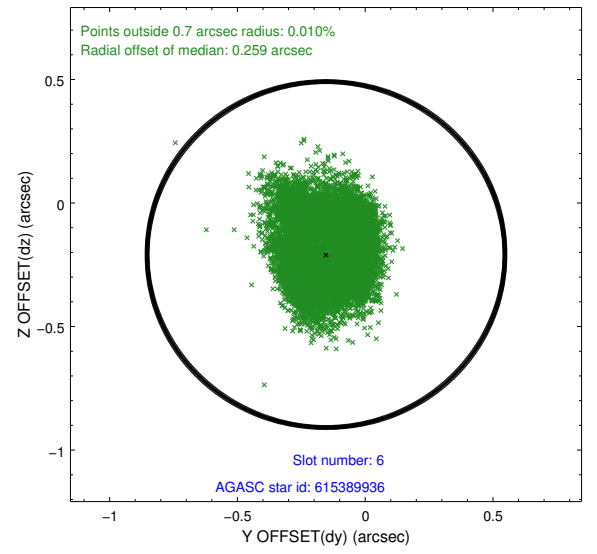
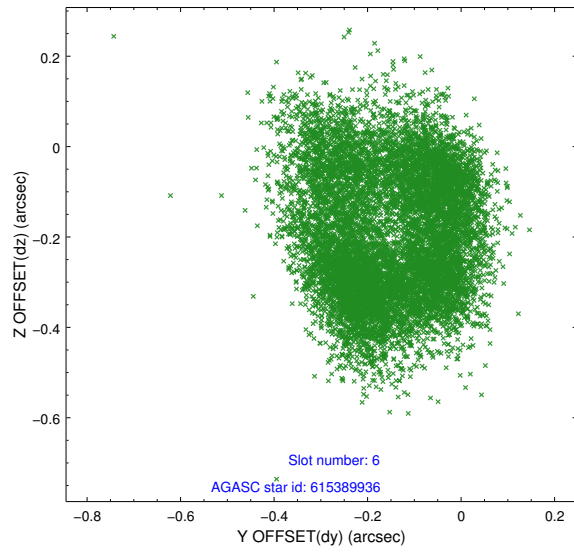
2.4.2 Slot 4



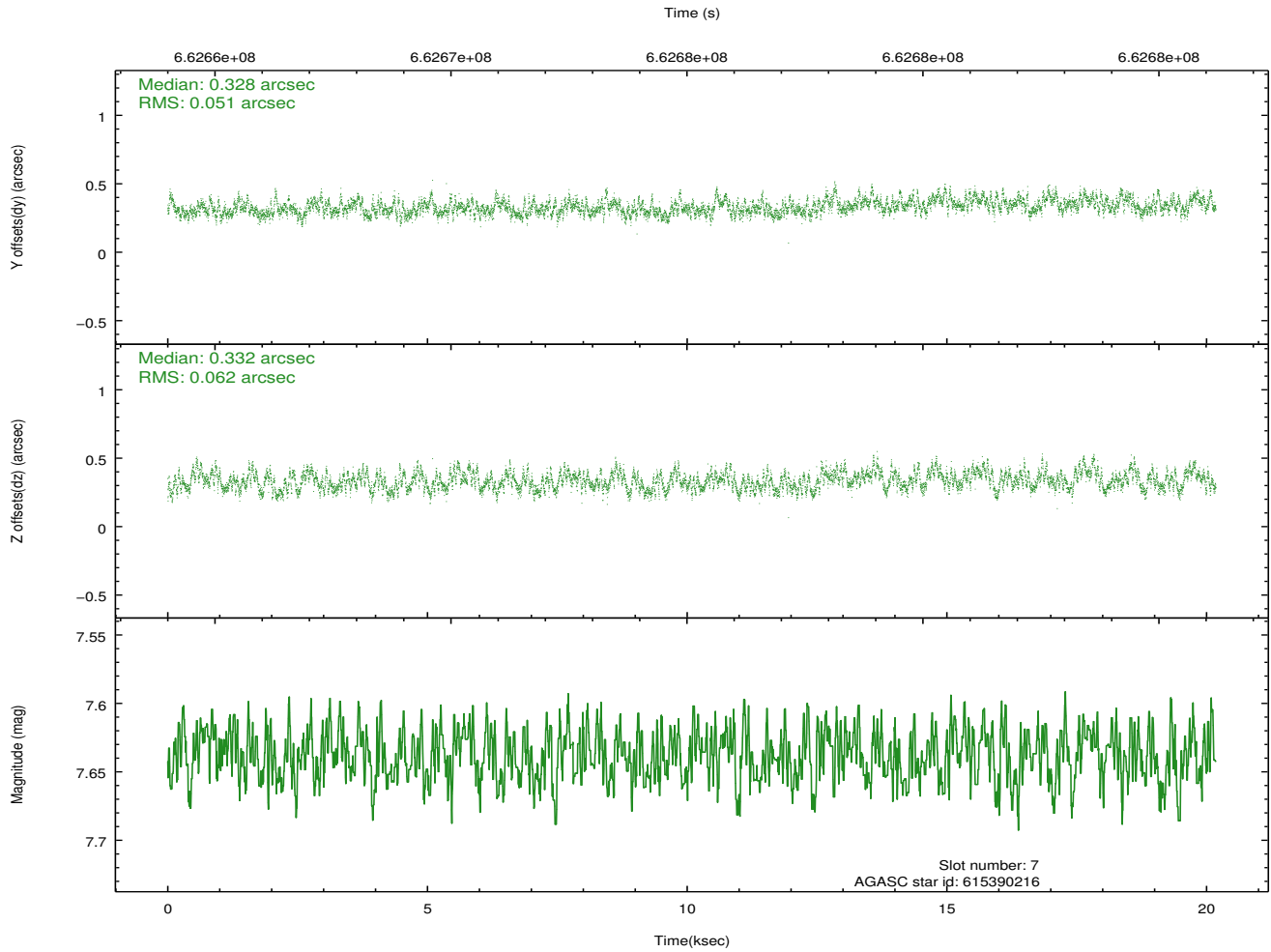
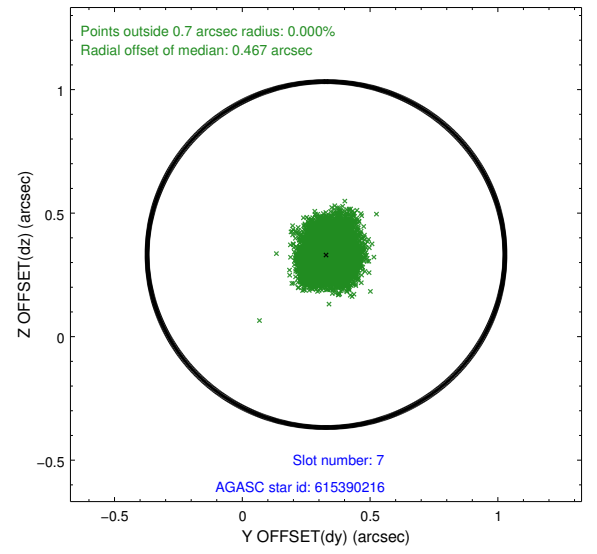
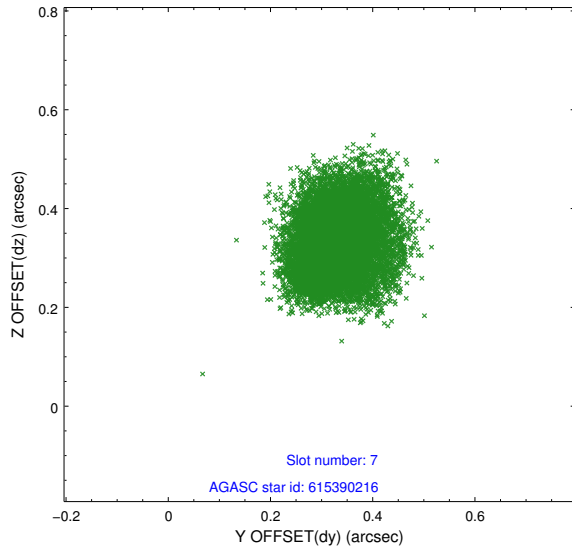
2.4.3 Slot 5



2.4.4 Slot 6

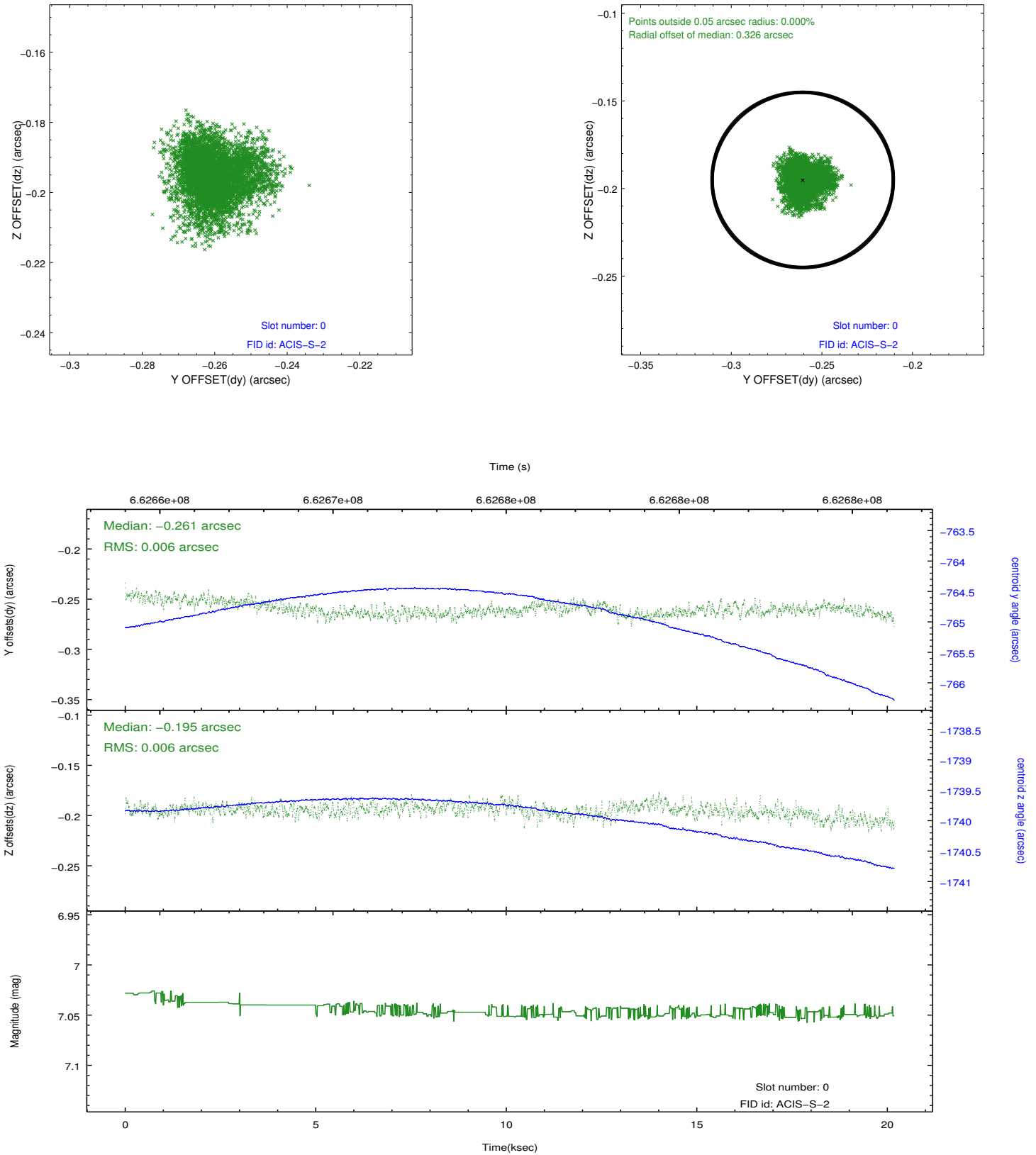


2.4.5 Slot 7

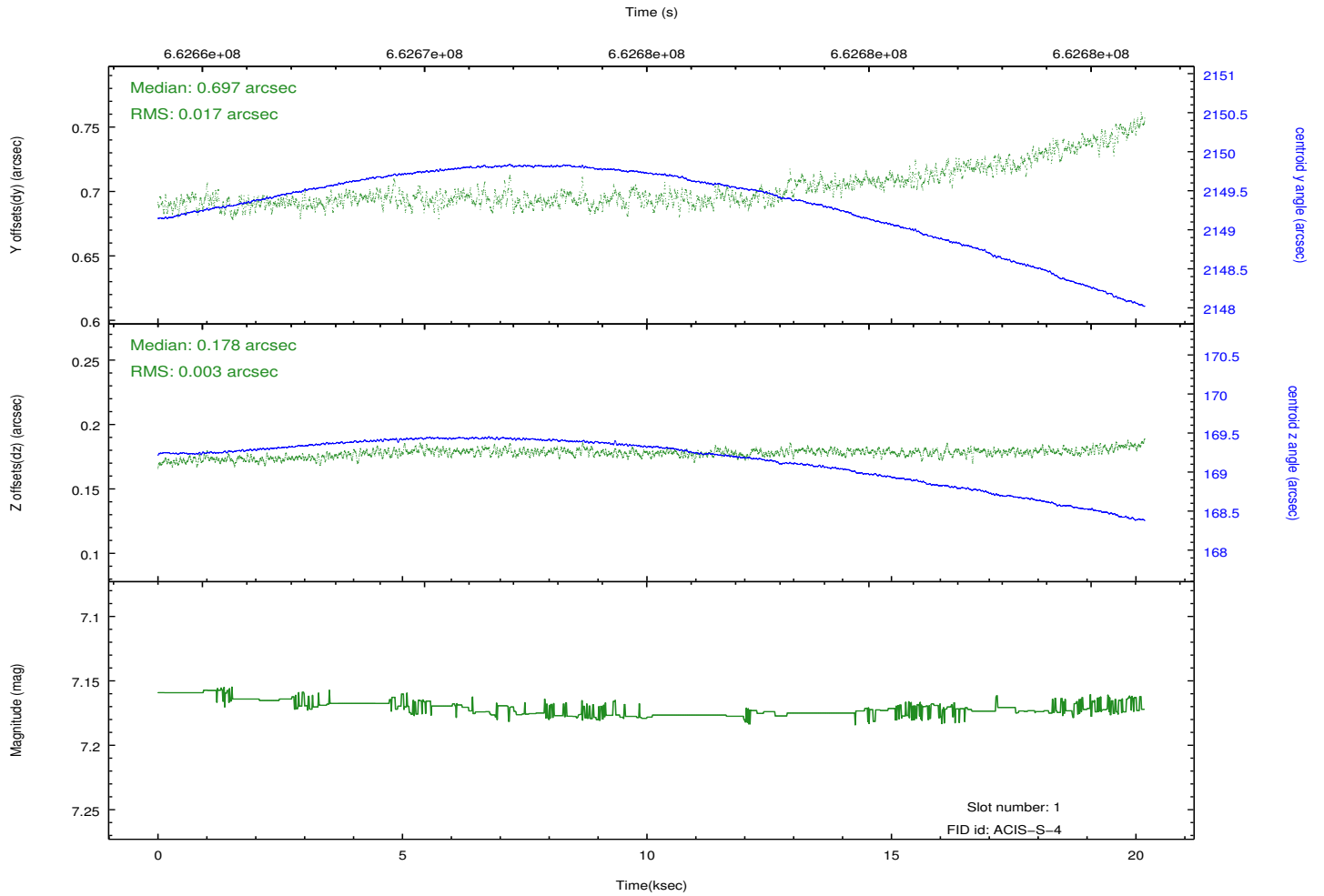
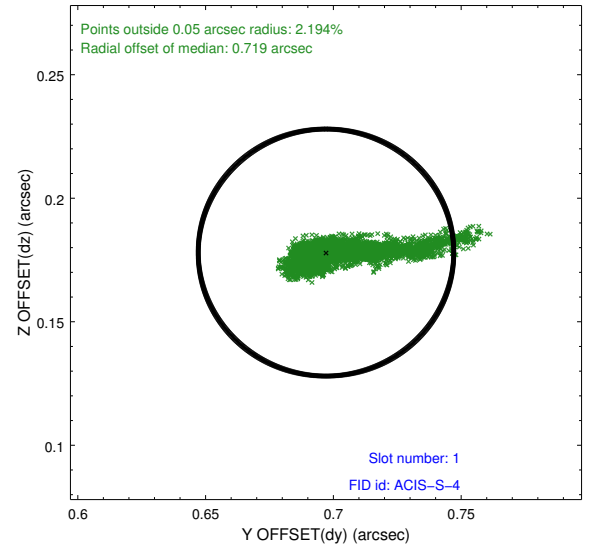
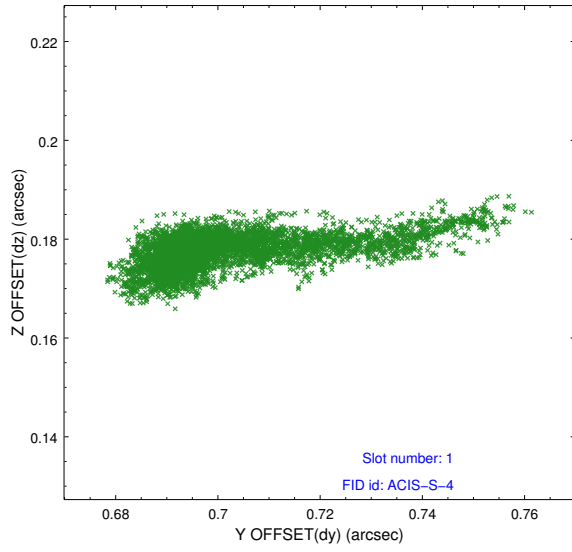


2.5 FID Slots

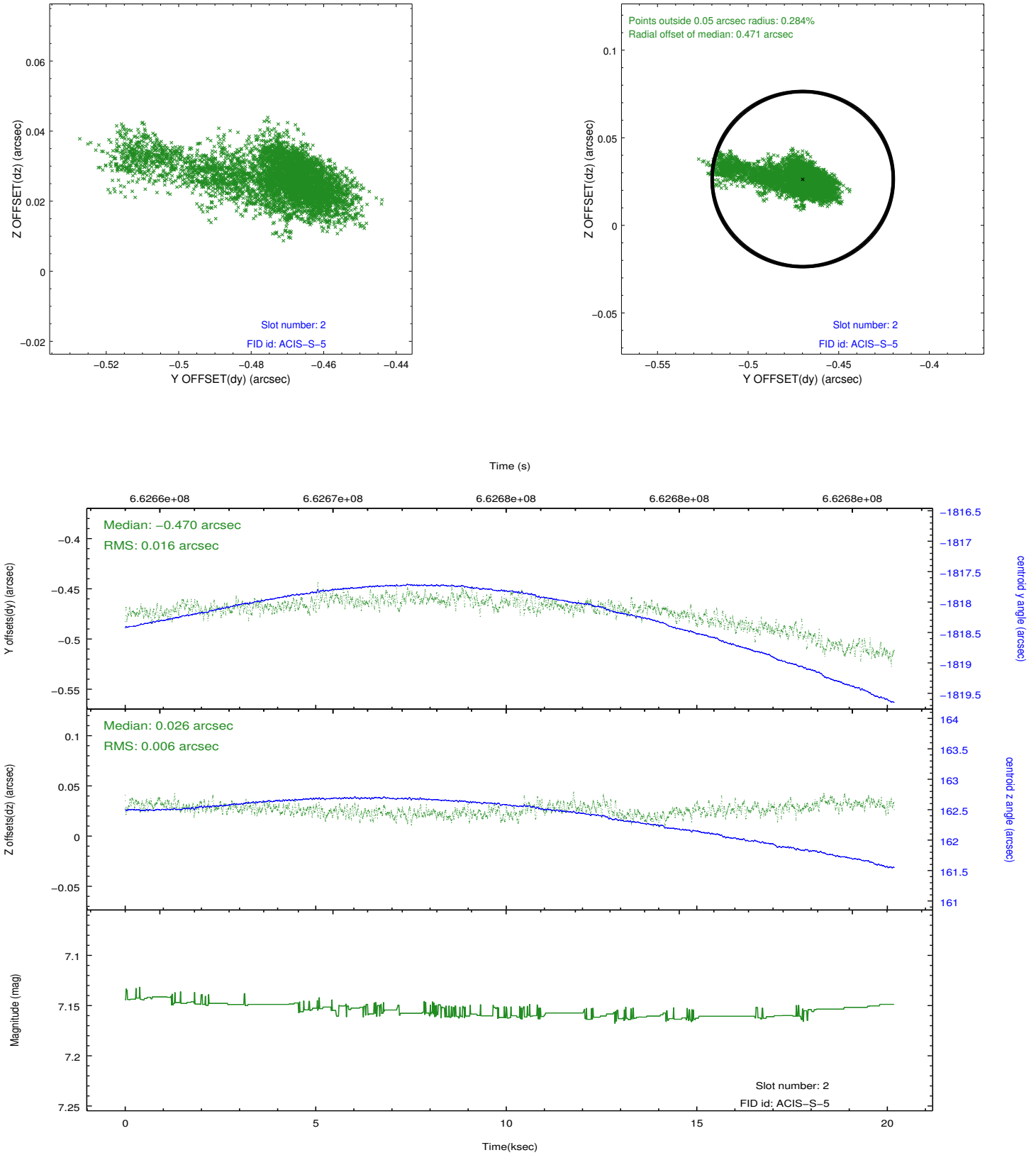
2.5.1 Slot 0



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)	2019.01.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.097300154686

A.2 Comments