

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20626 - L2 Version 1
Chandra X-Ray Center

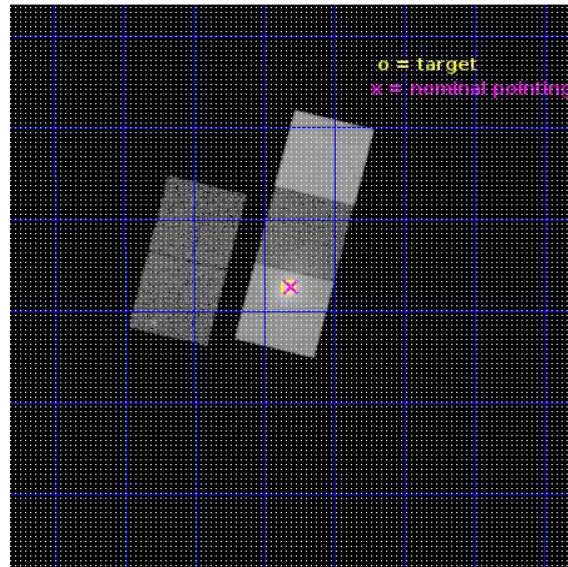
L2 Processing Date : Aug 16 2017

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1 Front

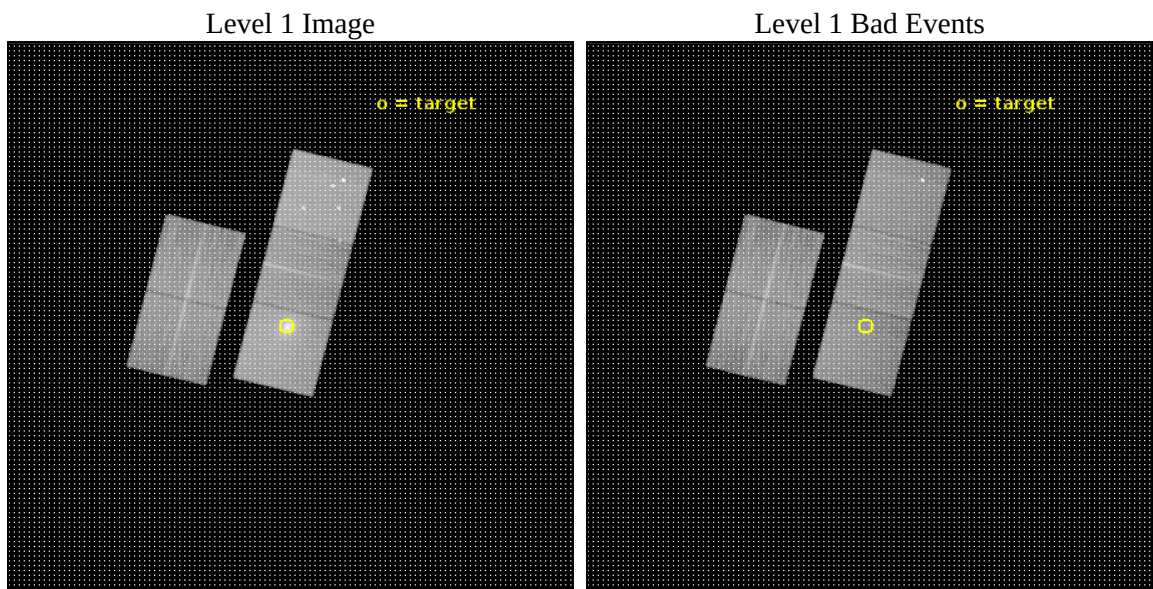
seq_num	801685	Sequence number
obs_id	20626	Observation id
title	The Hot Phase of a Cold Black Hole Fountain: Unifying Chandra with ALMA	Proposal title
observer	Grant Tremblay	Principal investigator
object	Abell 2597	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	351.332208	Observer's specified target RA [deg]
dec_targ	-12.124214	Observer's specified target Dec [deg]
ra_nom	351.32764637611	Nominal RA [deg]
dec_nom	-12.12237049653	Nominal Dec [deg]
roll_nom	104.15569380564	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25056.476187348	Sum of GTIs [s]
livetime	24729.094879651	Livetime [s]
ontime2	25056.312027335	Sum of GTIs [s]
ontime3	25056.353067398	Sum of GTIs [s]
ontime5	25056.435147405	Sum of GTIs [s]
ontime6	25050.112006783	Sum of GTIs [s]
ontime7	25056.476187348	Sum of GTIs [s]
l2events	341753	Number of level 2 events



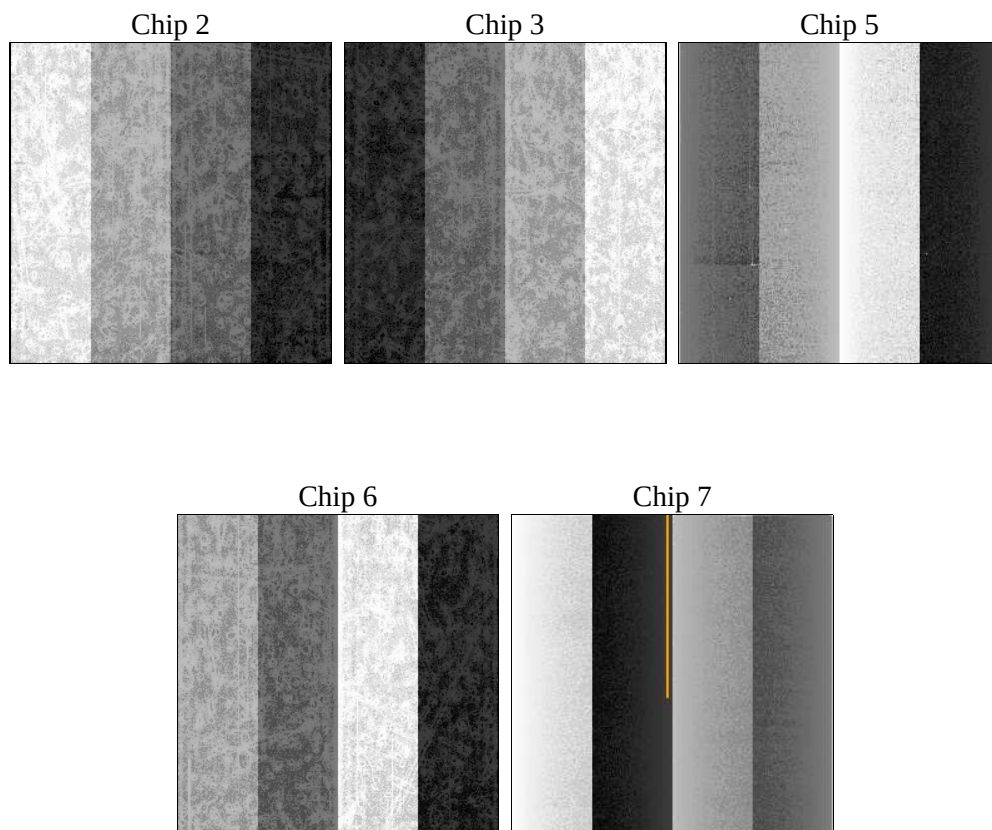
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	25056.476187348	Sum of GTIs [s]
caldsver	4.7.5	 	ontime2	25056.312027335	Sum of GTIs [s]
date	2017-08-16T14:24:13	Date and time of file creation	ontime3	25056.353067398	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	25056.435147405	Sum of GTIs [s]
			ontime6	25050.112006783	Sum of GTIs [s]
			ontime7	25056.476187348	Sum of GTIs [s]
			l1events	1104173	Number of level 1 events

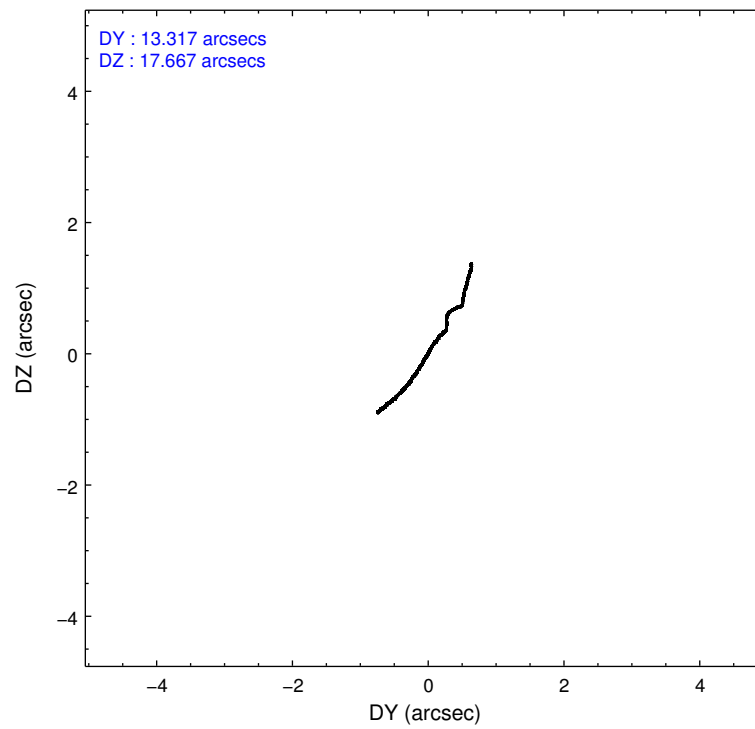
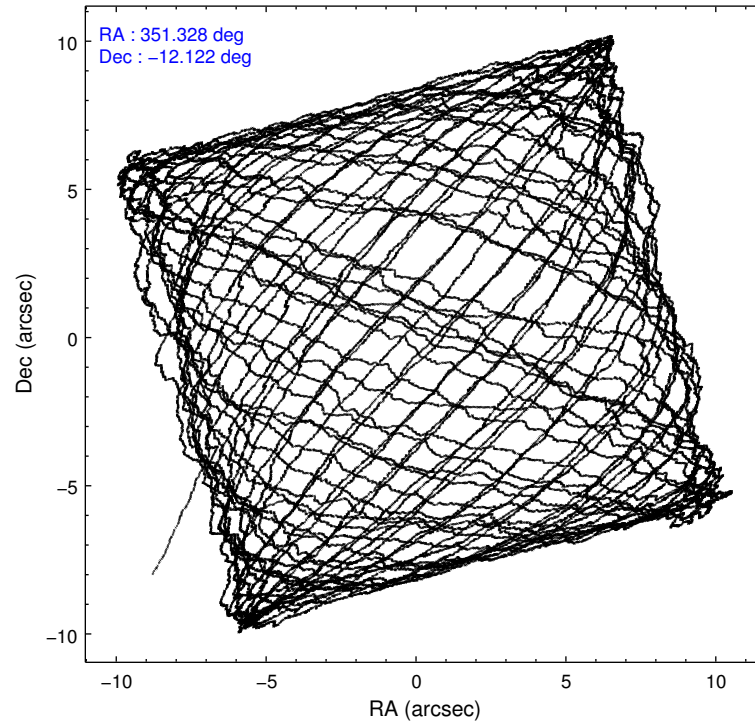
2.1.4 Events

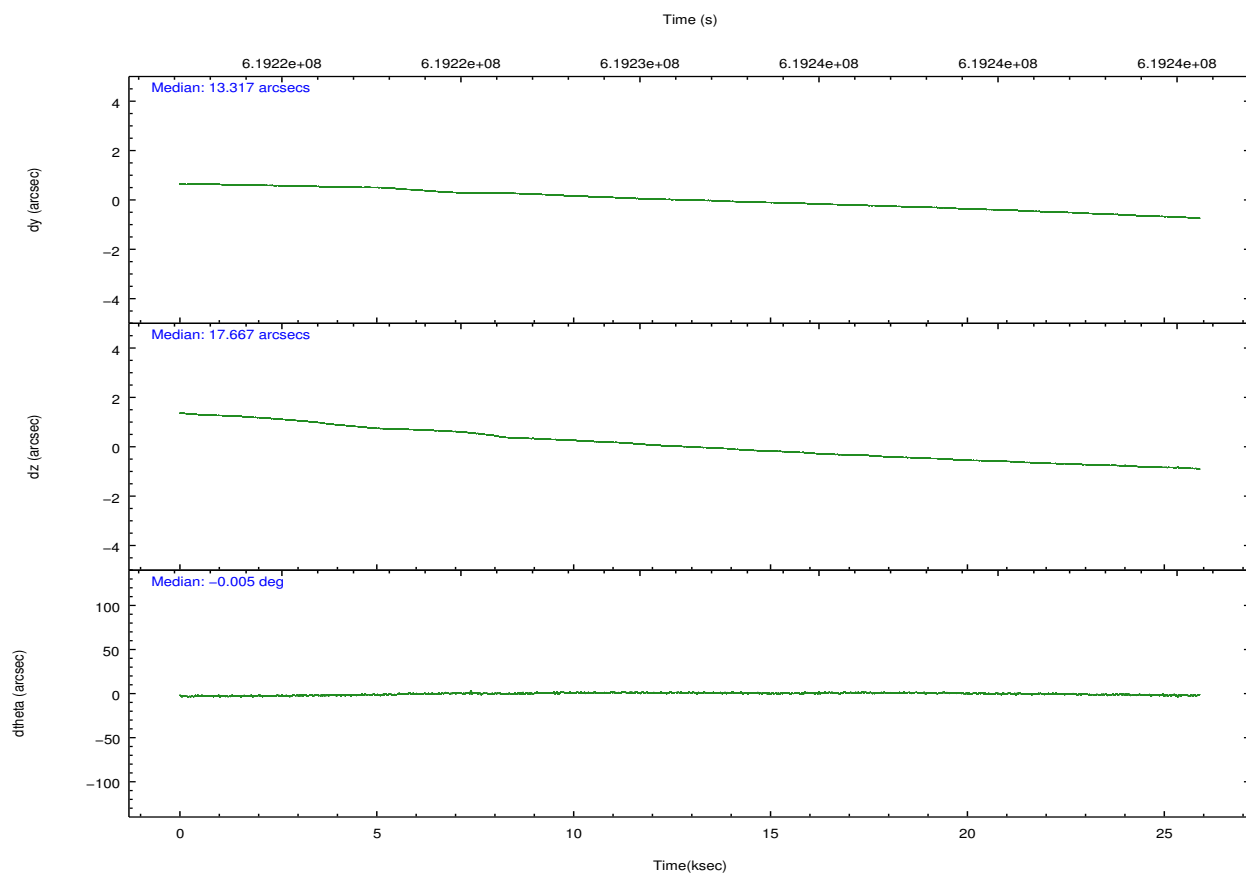
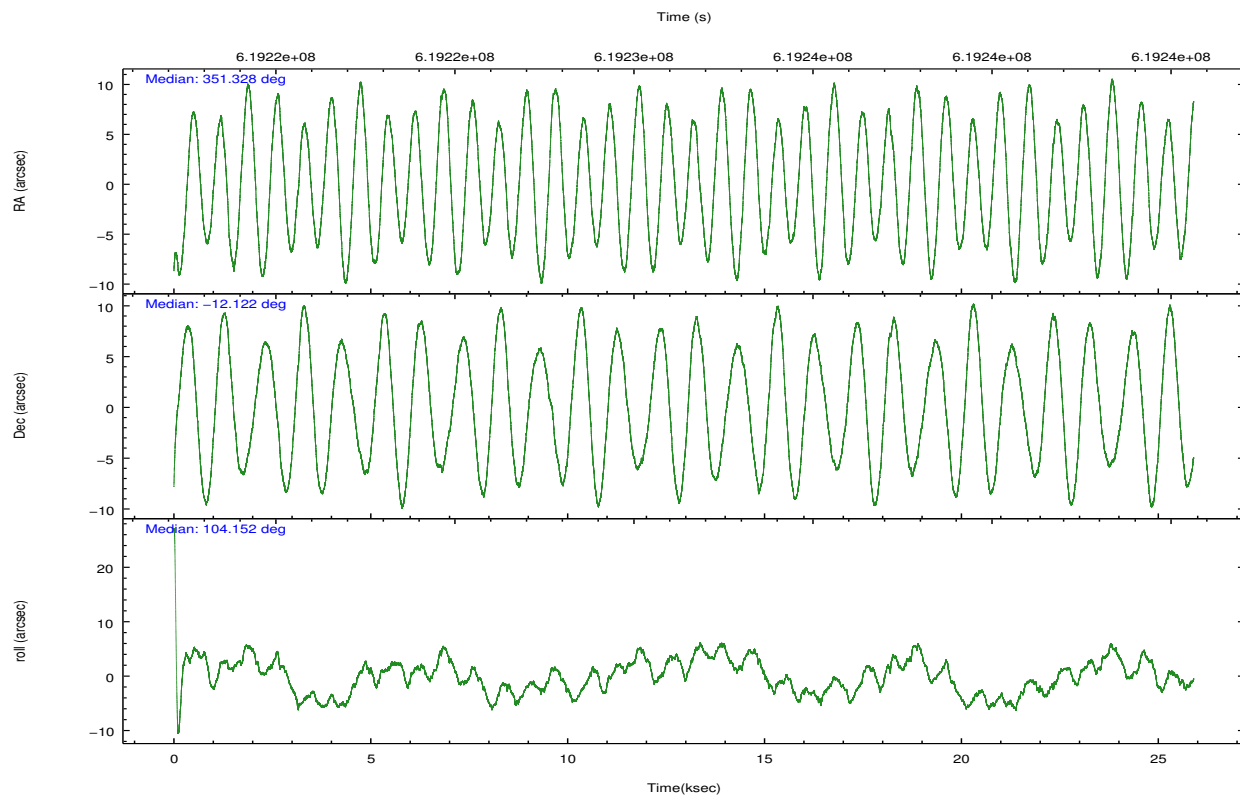
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	169491	163511	297491	181320	292360	grade 0 events	6635	6579	19655	9536	25980
rejected events	150786	145277	151387	157468	128658		3%	4%	6%	5%	8%
rejected %	88%	88%	50%	86%	44%	grade 1 events	99	79	661	90	334
							0%	0%	0%	0%	0%
						grade 2 events	4526	4057	43624	5230	38472
							2%	2%	14%	2%	13%
						grade 3 events	1893	1920	4785	2118	15518
							1%	1%	1%	1%	5%
						grade 4 events	1904	1984	4323	2169	15221
							1%	1%	1%	1%	5%
						grade 5 events	7179	8249	20321	8419	23248
							4%	5%	6%	4%	7%
						grade 6 events	3751	3702	73756	4807	68544
							2%	2%	24%	2%	23%
						grade 7 events	143504	136941	130366	148951	105043
							84%	83%	43%	82%	35%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	351.347488	351.3276463761081	Subarray requested	NONE	NONE
[deg] Pointing Dec	-12.141807	-12.12237049653026	Alternating exposures requested	N	N
[deg] Pointing Roll	104.003215	104.1556938056382	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	619219357.184000	619217240.45253			
Observation start date	2017-08-15T21:21:28	2017-08-15T20:47:20			
[s] Observation end time (MET)	619244357.184000	619245199.89166			
Observation end date	2017-08-16T04:18:08	2017-08-16T04:33:19			
Read mode	TIMED	TIMED			

2.3 Aspect



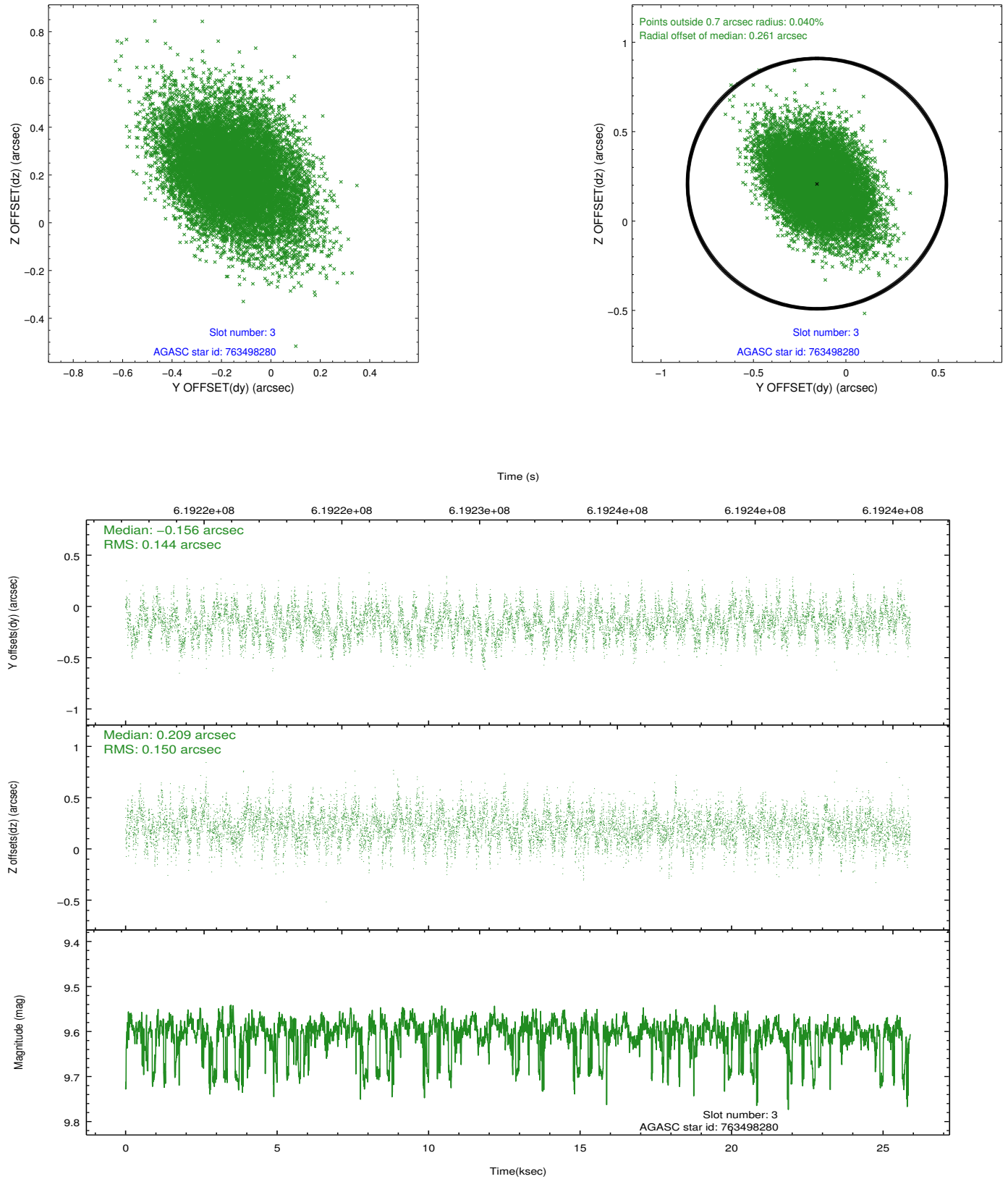


Slot Statistics

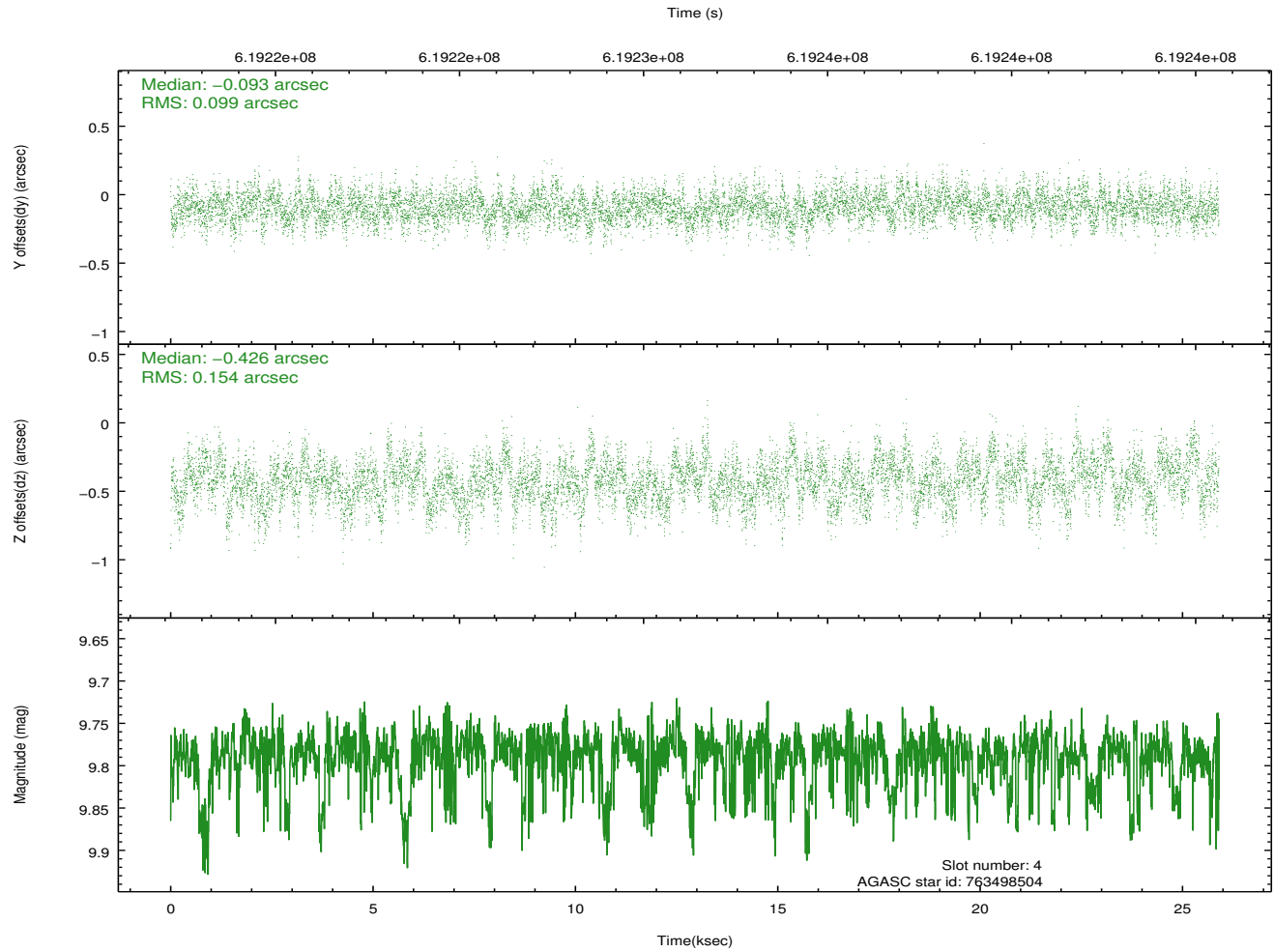
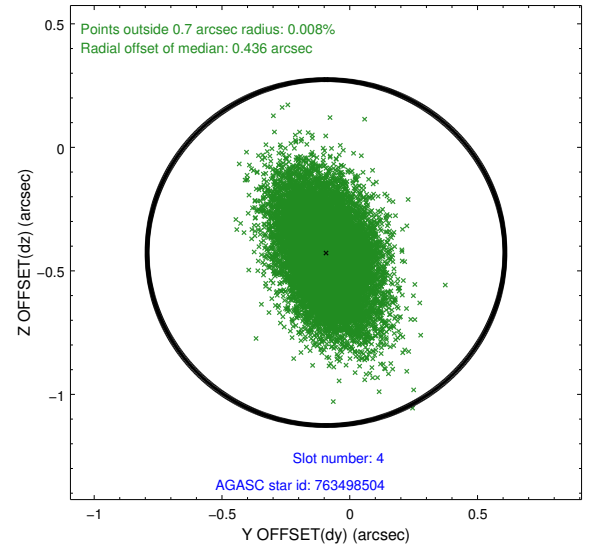
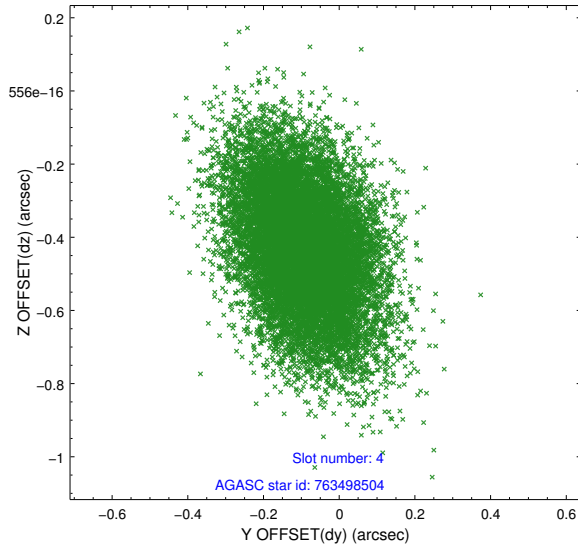
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.09	6316	0.350	0.022	0.015	0.027	0.000000	0.000000	2147.44	169.51
1	FID		ACIS-S-5	7.09	6317	-0.390	0.011	0.026	0.041	0.000000	0.000000	-1819.35	162.92
2	FID		ACIS-S-6	7.23	6317	0.011	-0.020	0.020	0.030	0.000000	0.000000	395.24	806.67
3	GUIDE	used	763498280	9.60	12615	-0.156	0.209	0.219	0.365	351.715548	-11.532836	1812.44	-1789.39
4	GUIDE	used	763498504	9.79	12620	-0.093	-0.426	0.190	0.327	351.252498	-11.852907	1089.93	72.66
5	GUIDE	used	763499608	9.52	12608	0.174	0.218	0.220	0.363	351.830271	-12.196099	-601.55	-1600.16
6	GUIDE	used	763500112	6.19	12635	-0.020	0.351	0.120	0.212	352.030274	-12.212329	-830.26	-2268.38
7	GUIDE	used	763888952	8.96	12610	0.096	-0.346	0.138	0.246	351.077405	-12.782990	-2010.47	1477.79

2.4 Star Slots

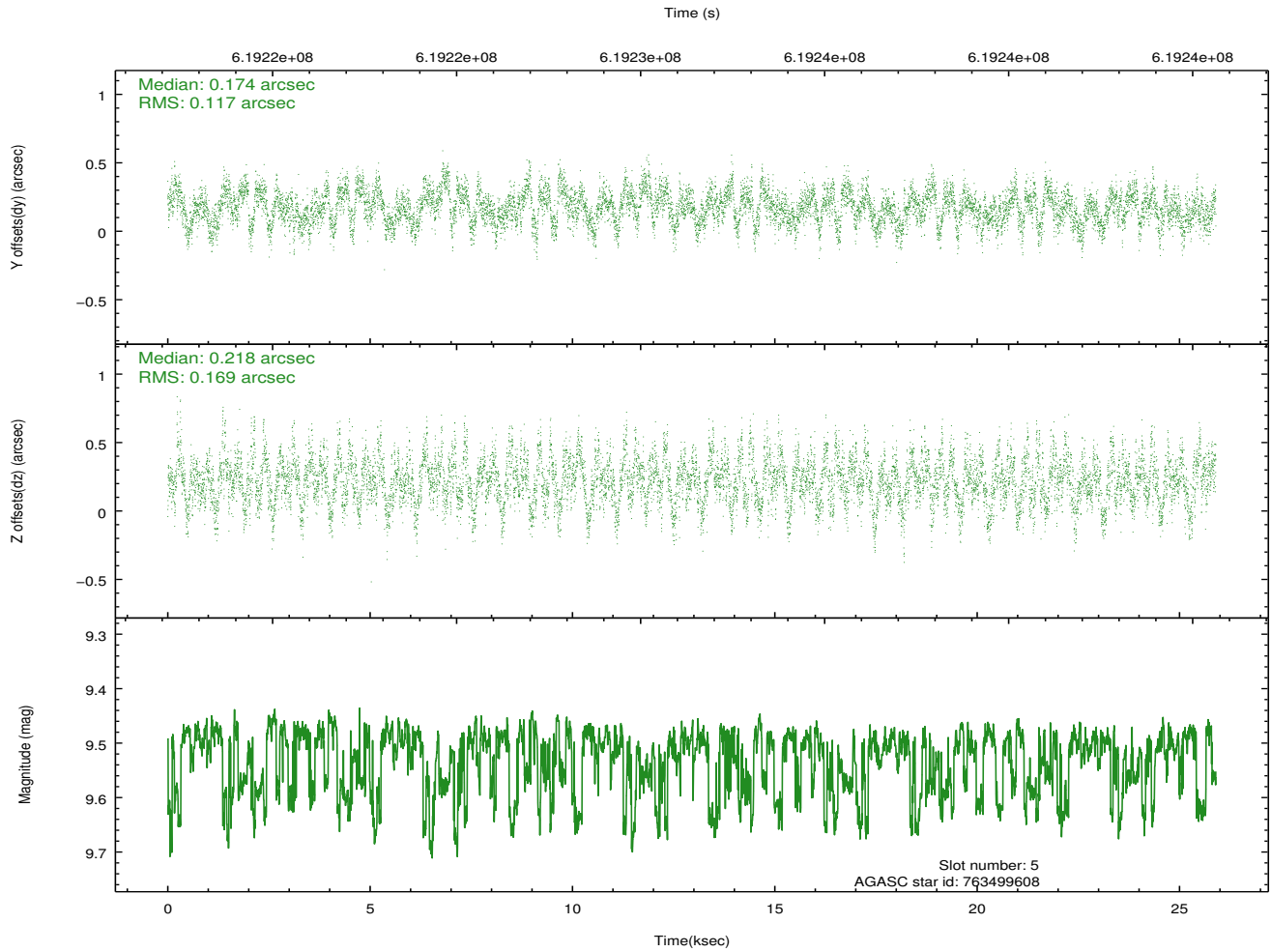
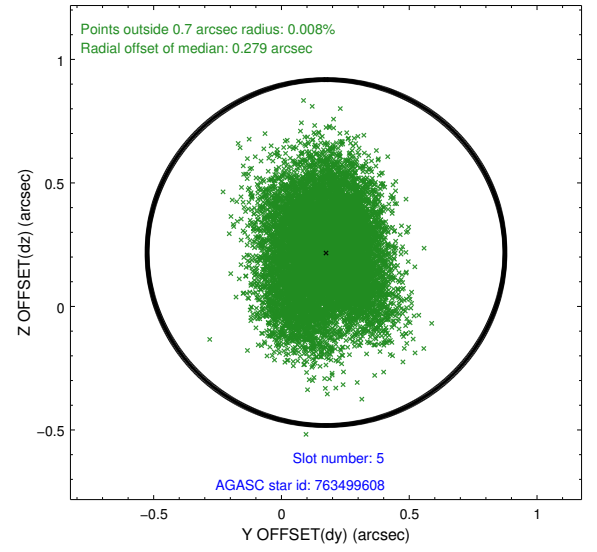
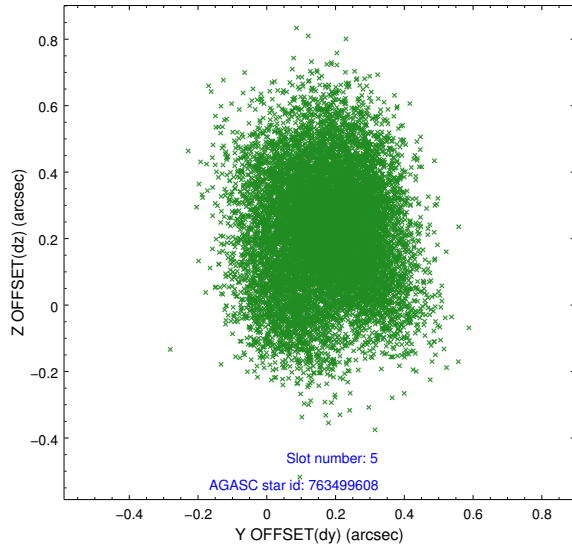
2.4.1 Slot 3



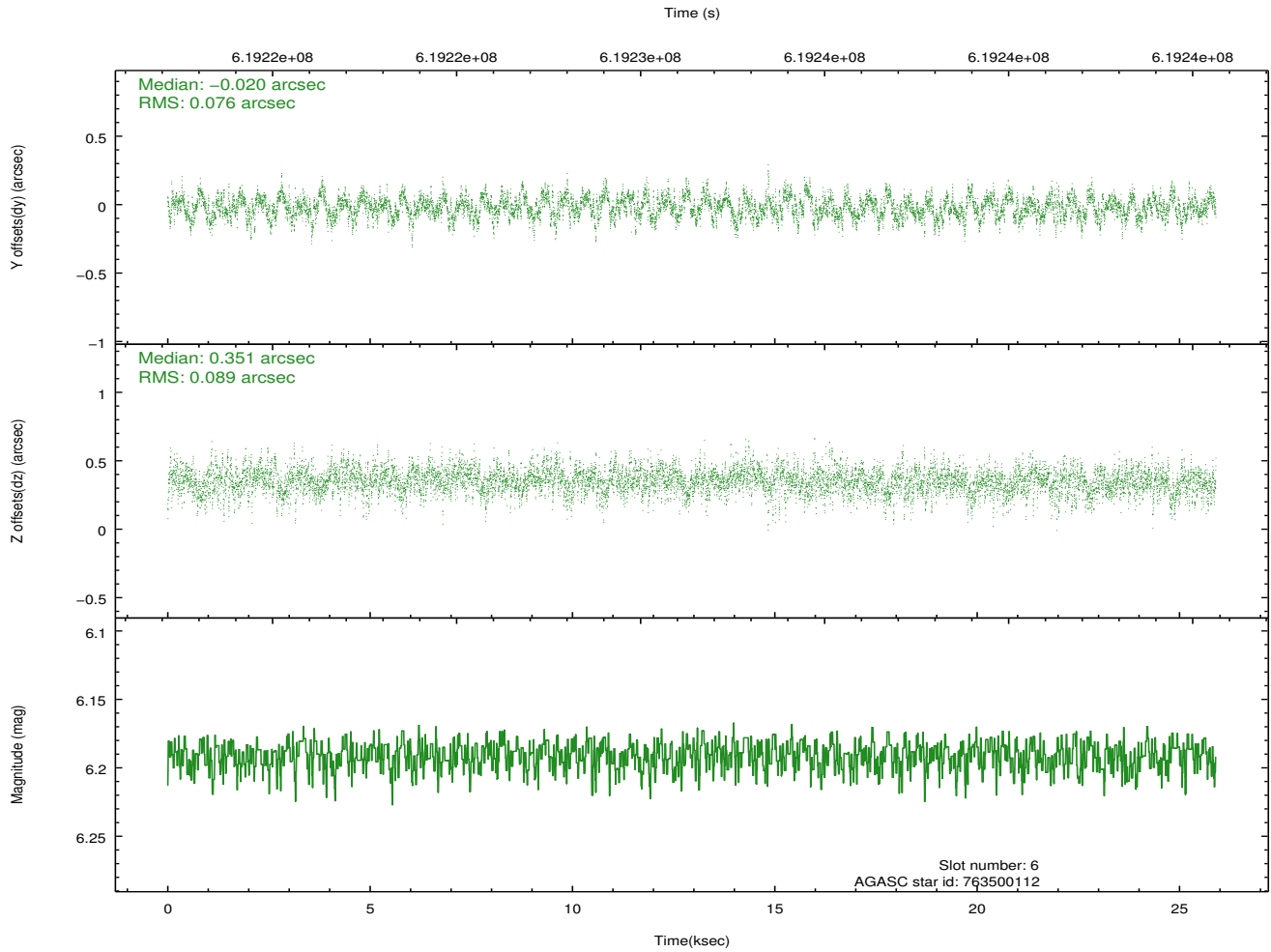
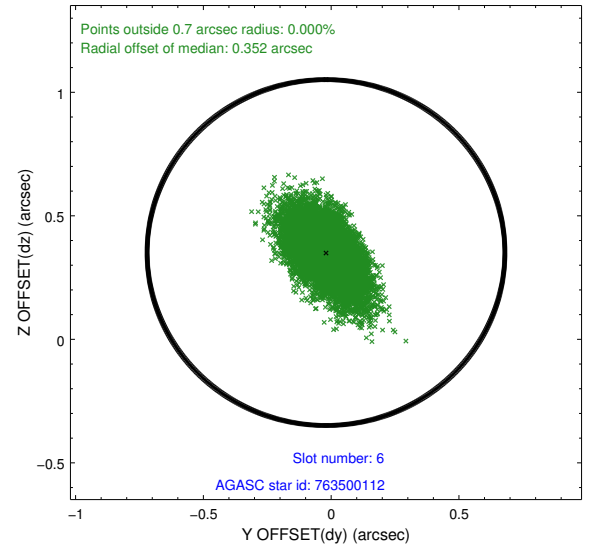
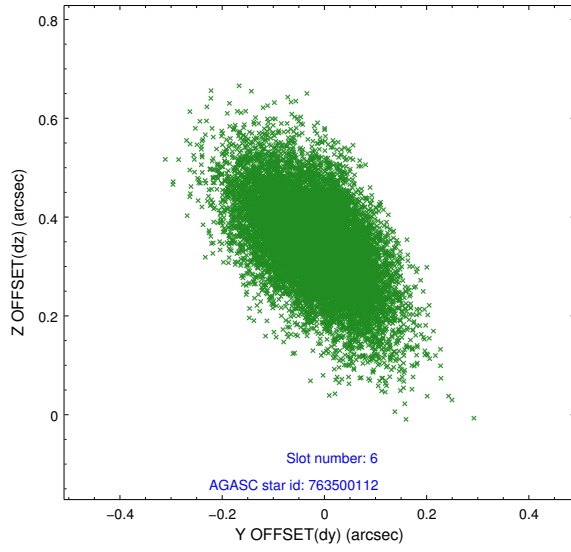
2.4.2 Slot 4



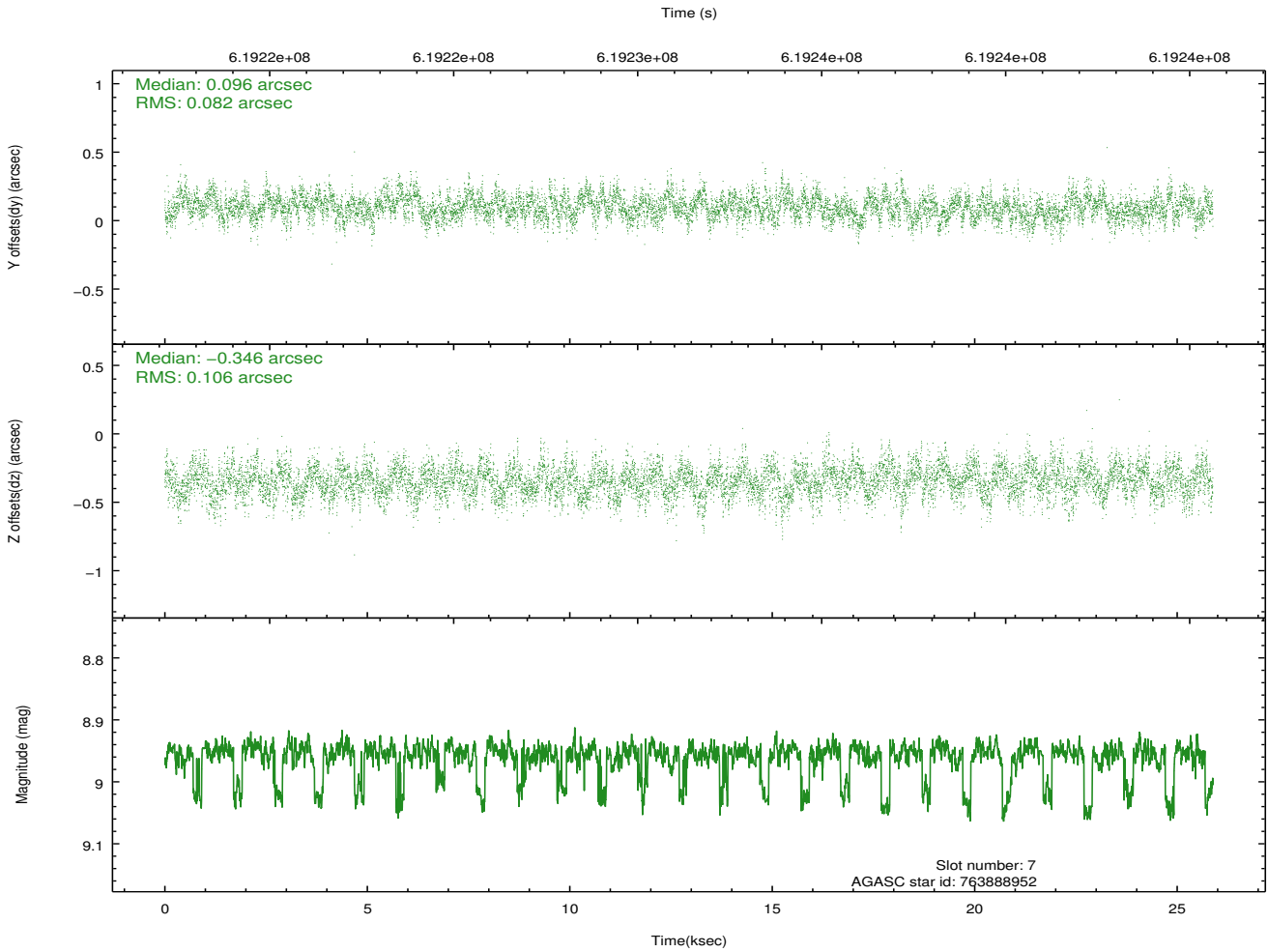
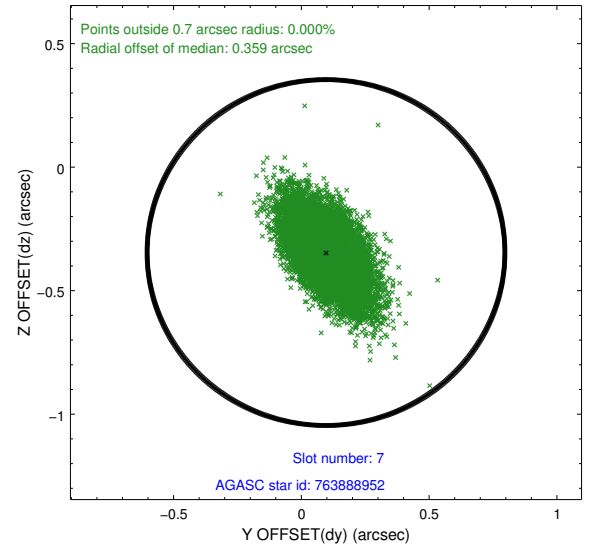
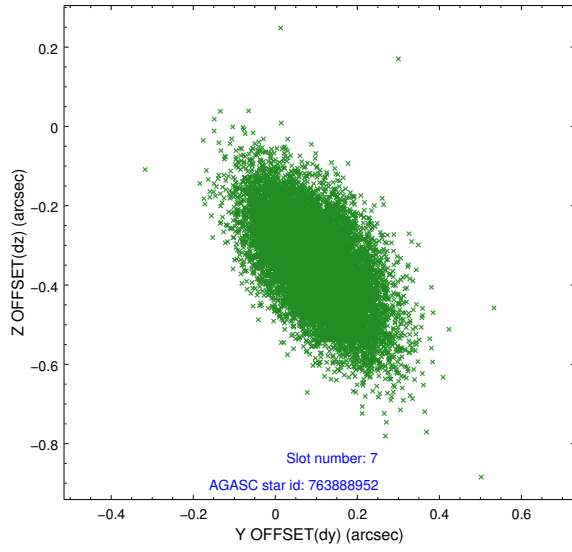
2.4.3 Slot 5



2.4.4 Slot 6

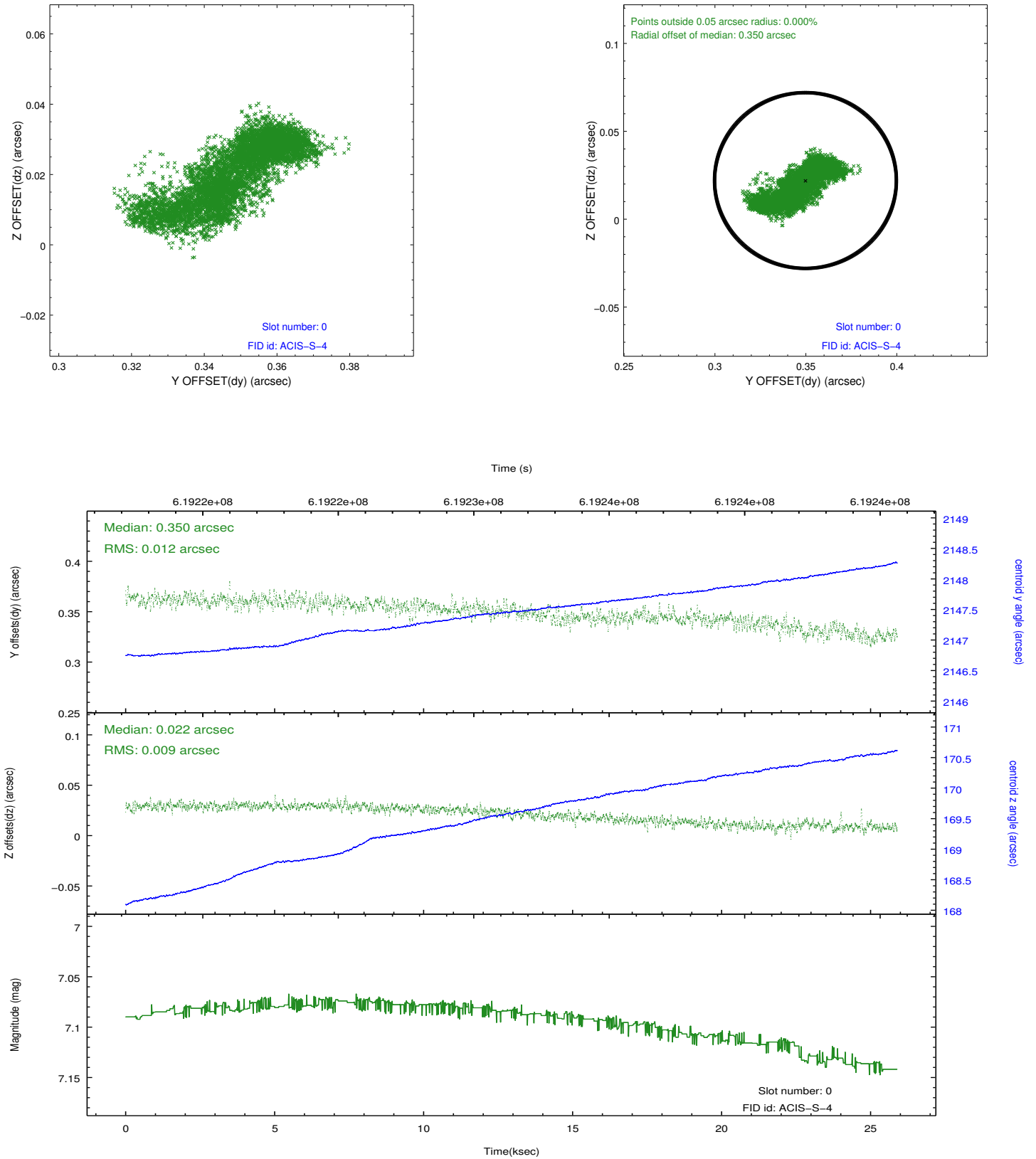


2.4.5 Slot 7

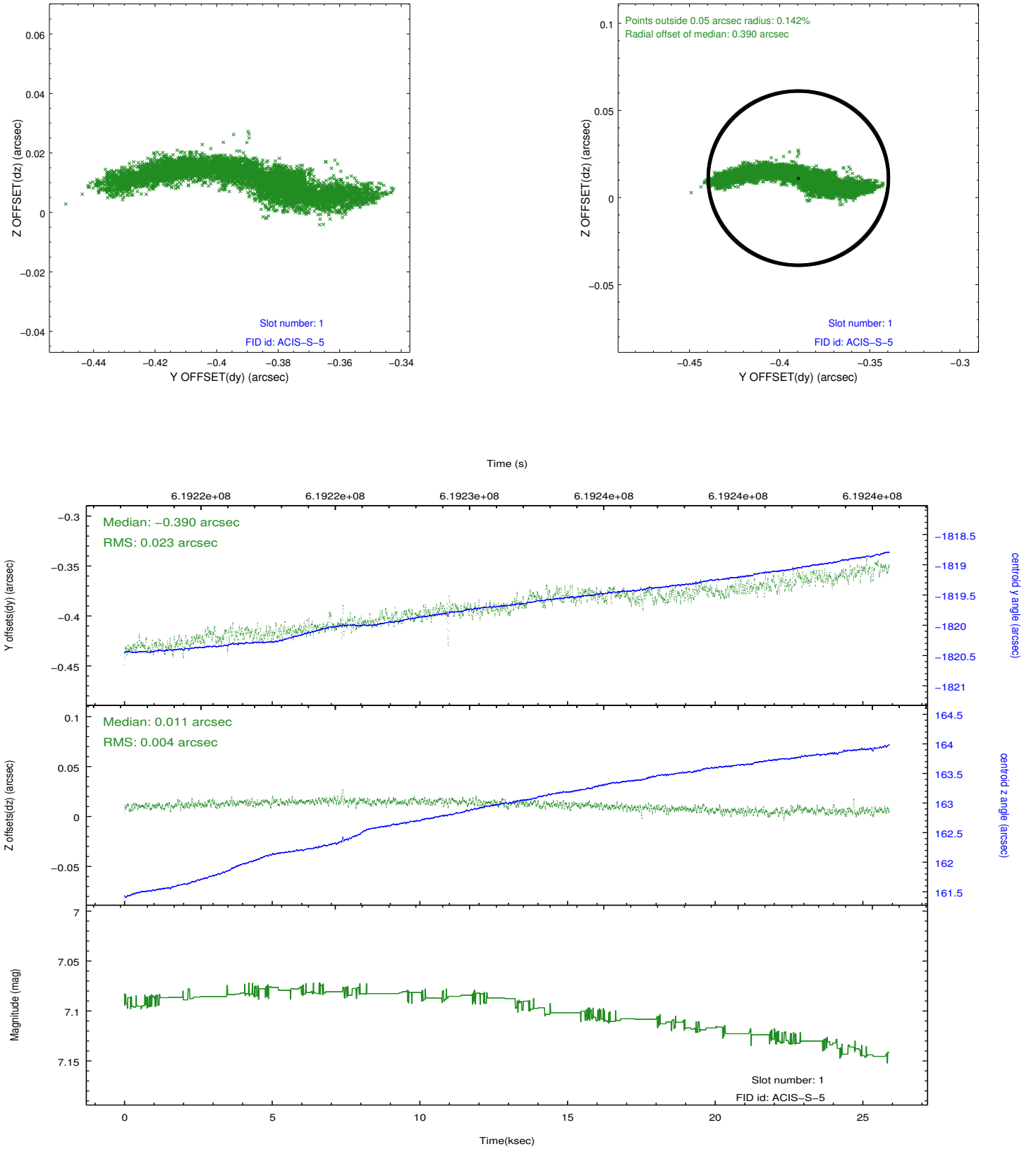


2.5 FID Slots

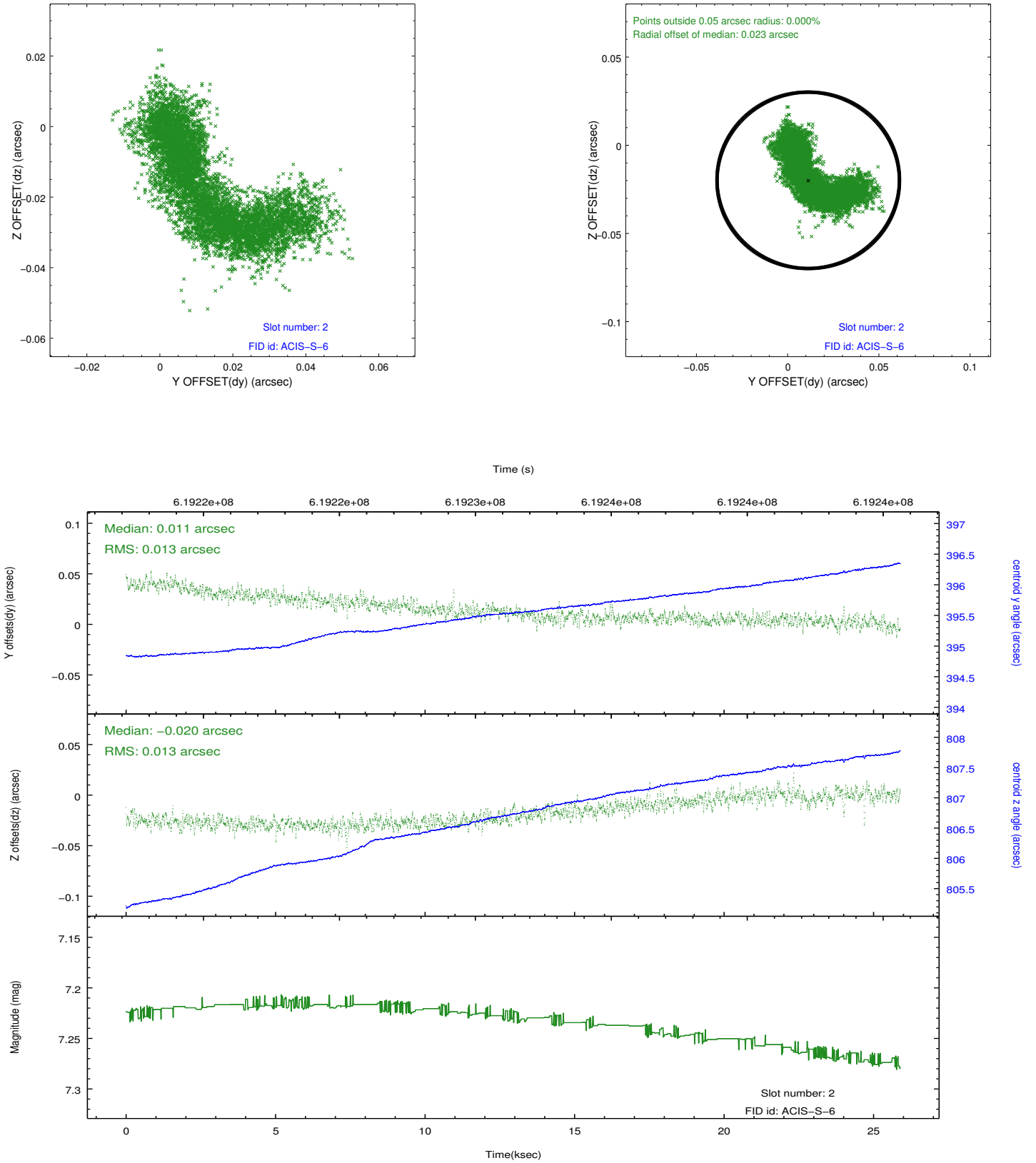
2.5.1 Slot 0



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)	2017.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.056476187348

A.2 Comments