

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7891 - L2 Version 3
Chandra X-Ray Center

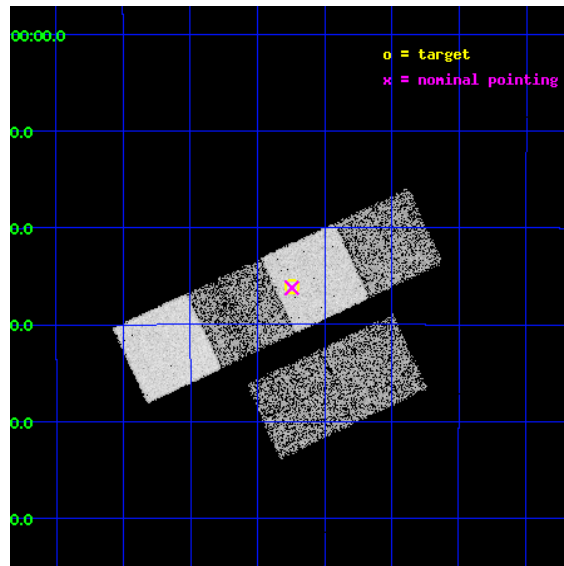
L2 Processing Date : Apr 16 2012

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1 Front

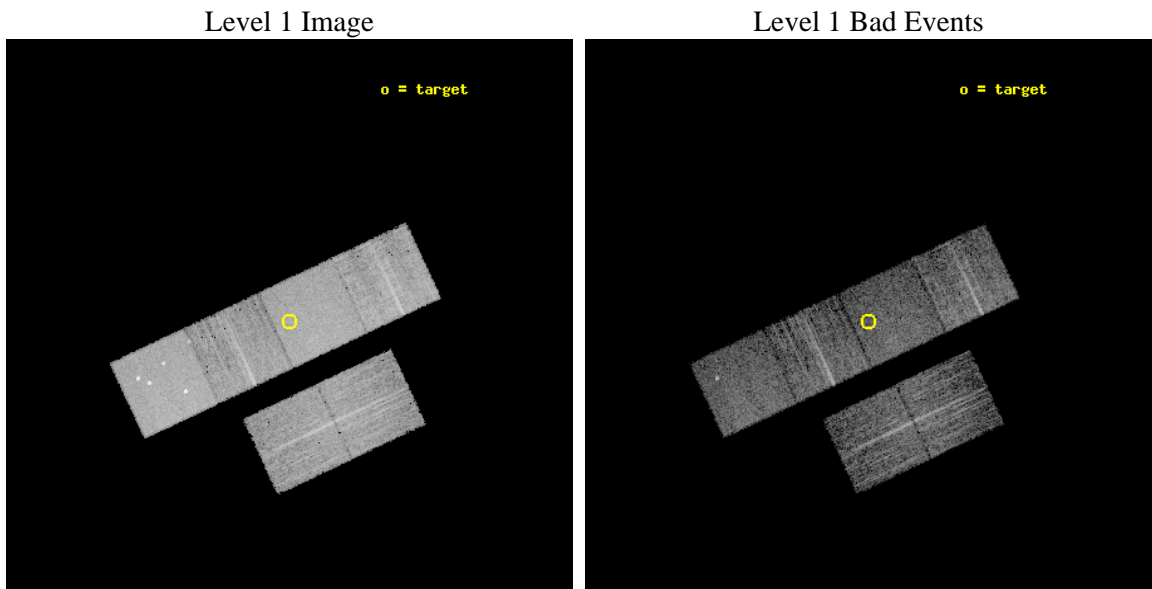
seq_num	701554	Sequence number
obs_id	7891	Observation id
title	Demographics of black holes in the local Universe.	Proposal title
observer	Prof. Smita Mathur	Principal investigator
object	NGC 1640	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	70.560417	Observer's specified target RA [deg]
dec_targ	-20.434778	Observer's specified target Dec [deg]
ra_nom	70.56093103147	Nominal RA [deg]
dec_nom	-20.436832247219	Nominal Dec [deg]
roll_nom	334.81253913543	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5173.566196382	Sum of GTIs [s]
livetime	5108.0553860559	Livetime [s]
ontime2	5173.6072363853	Sum of GTIs [s]
ontime3	5170.2021060586	Sum of GTIs [s]
ontime5	5173.5251563787	Sum of GTIs [s]
ontime6	5173.4841163754	Sum of GTIs [s]
ontime7	5173.566196382	Sum of GTIs [s]
ontime8	5173.4020363688	Sum of GTIs [s]
l2events	73179	Number of level 2 events



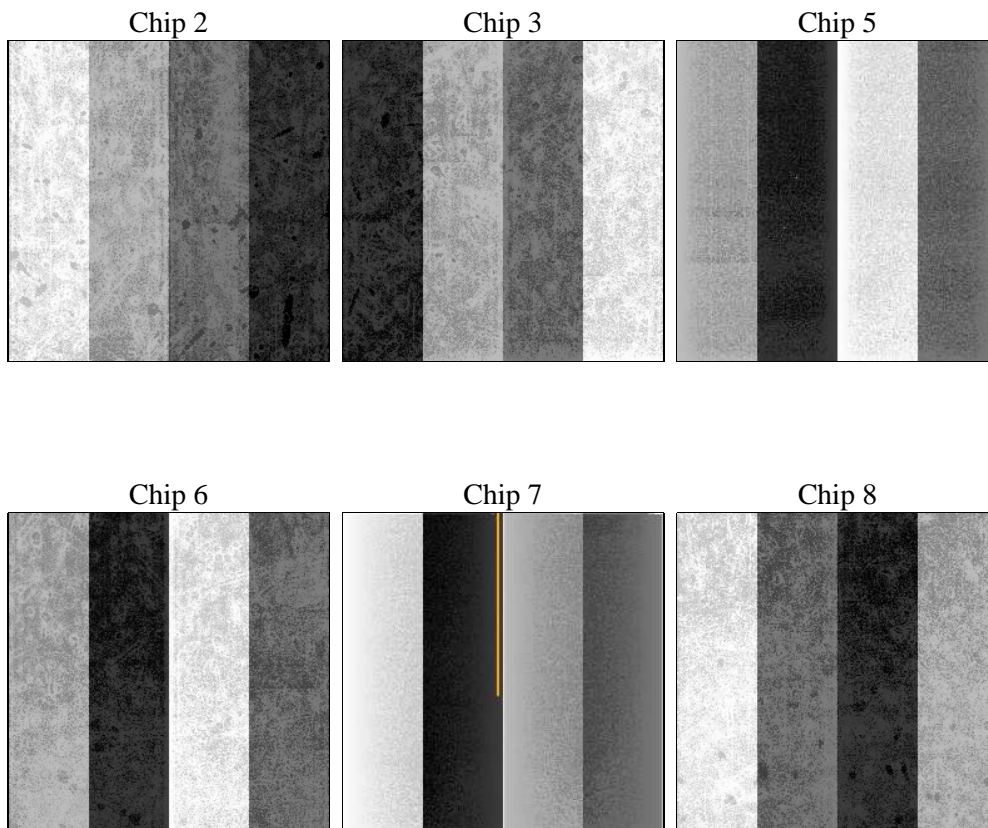
2 OBI

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	8.4.3.1	Processing system revision	ontime	5173.566196382	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5173.6072363853	Sum of GTIs [s]
date	2012-04-16T03:46:26	Date and time of file creation	ontime3	5170.2021060586	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5173.5251563787	Sum of GTIs [s]
			ontime6	5173.4841163754	Sum of GTIs [s]
			ontime7	5173.566196382	Sum of GTIs [s]
			ontime8	5173.4020363688	Sum of GTIs [s]
			l1events	328435	Number of level 1 events

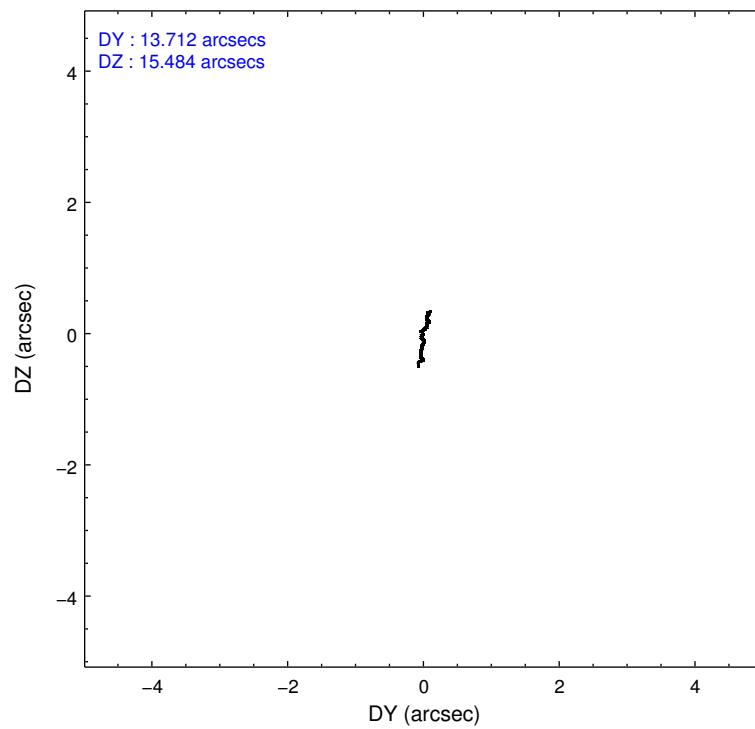
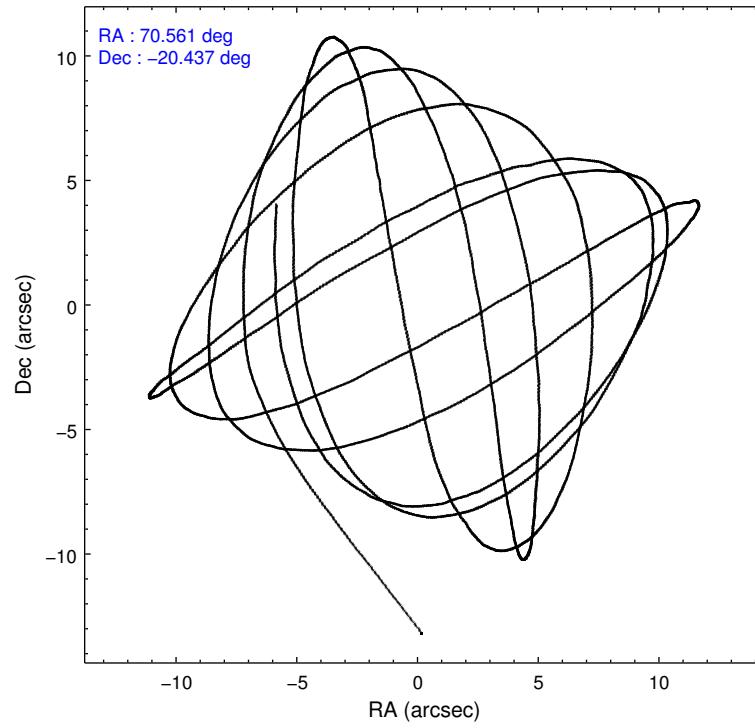
2.1.4 Events

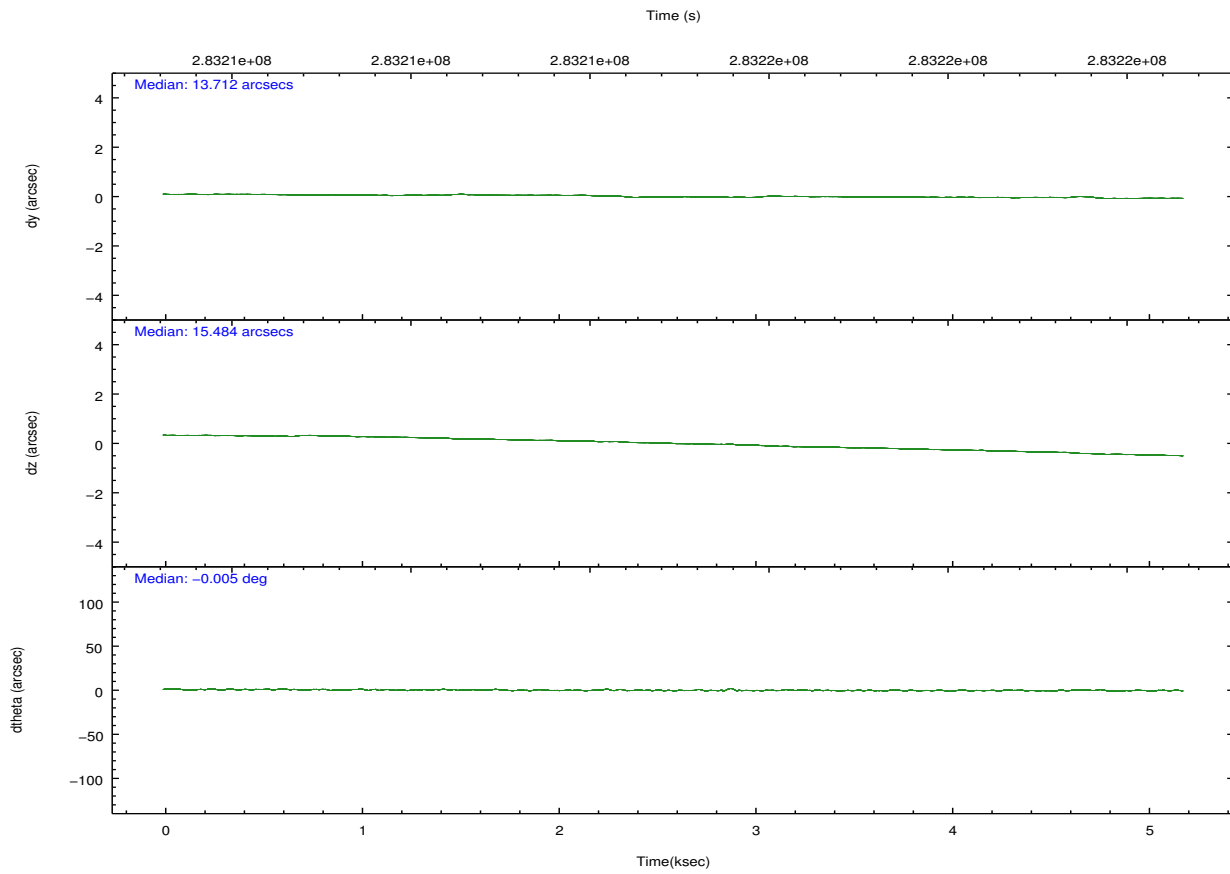
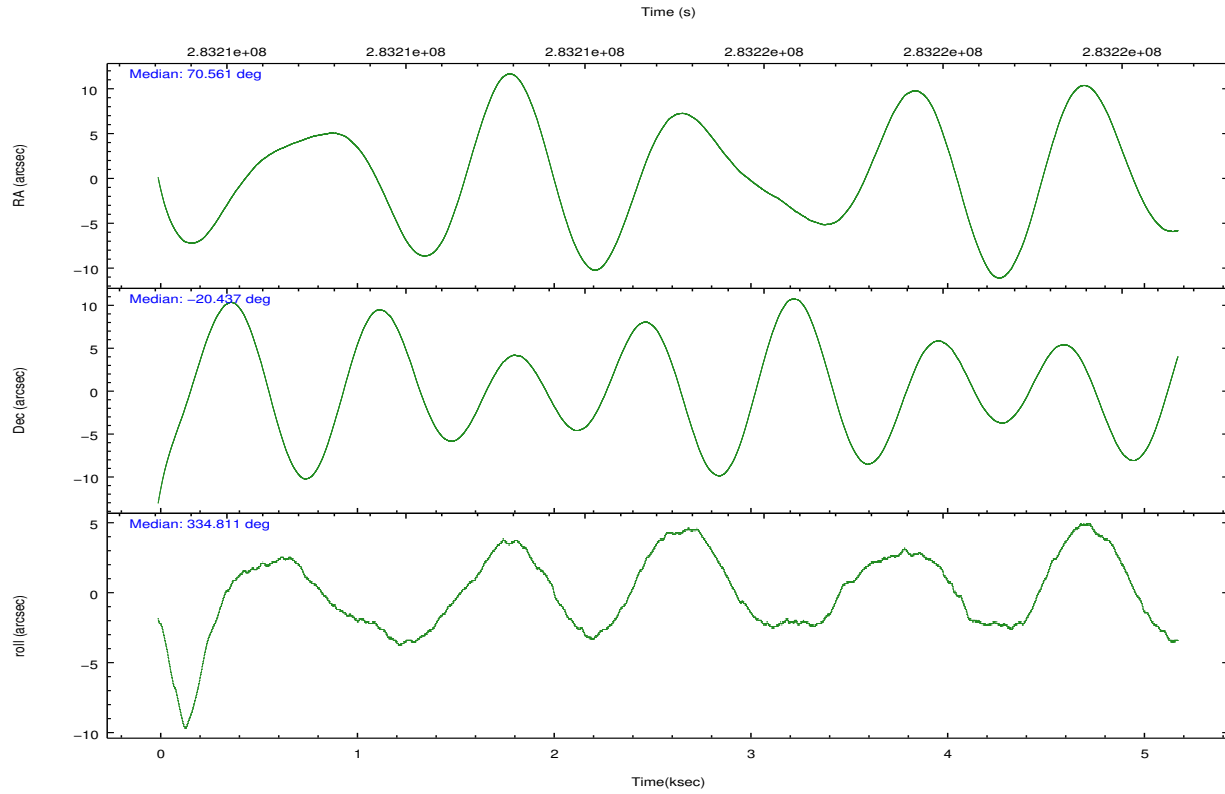
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	44846	44705	72176	46074	61966	58668	grade 0 events	2465	2252	5139	2117	2156	3872
rejected events	39344	39531	38455	40757	36658	45811		5%	5%	7%	4%	3%	6%
rejected %	87%	88%	53%	88%	59%	78%	grade 1 events	26	22	147	23	75	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	1158	1052	9921	1178	5087	3004
								2%	2%	13%	2%	8%	5%
							grade 3 events	512	492	1048	515	2142	1329
								1%	1%	1%	1%	3%	2%
							grade 4 events	498	501	986	429	2105	1212
								1%	1%	1%	0%	3%	2%
							grade 5 events	1809	2072	4832	2046	5795	2802
								4%	4%	6%	4%	9%	4%
							grade 6 events	874	887	16666	1082	13853	3452
								1%	1%	23%	2%	22%	5%
							grade 7 events	37504	37427	33437	38684	30753	42946
								83%	83%	46%	83%	49%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	70.531939	70.56093103147035	Subarray requested	NONE	NONE
[deg] Pointing Dec	-20.439473	-20.43683224721889	Alternating exposures requested	N	N
[deg] Pointing Roll	334.645772	334.8125391354332	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	283212043.184000	283210938.00538			
Observation start date	2006-12-22T21:59:38	2006-12-22T21:42:18			
[s] Observation end time (MET)	283217043.184000	283217611.78069			
Observation end date	2006-12-22T23:22:58	2006-12-22T23:33:31			
Read mode	TIMED	TIMED			

2.3 Aspect





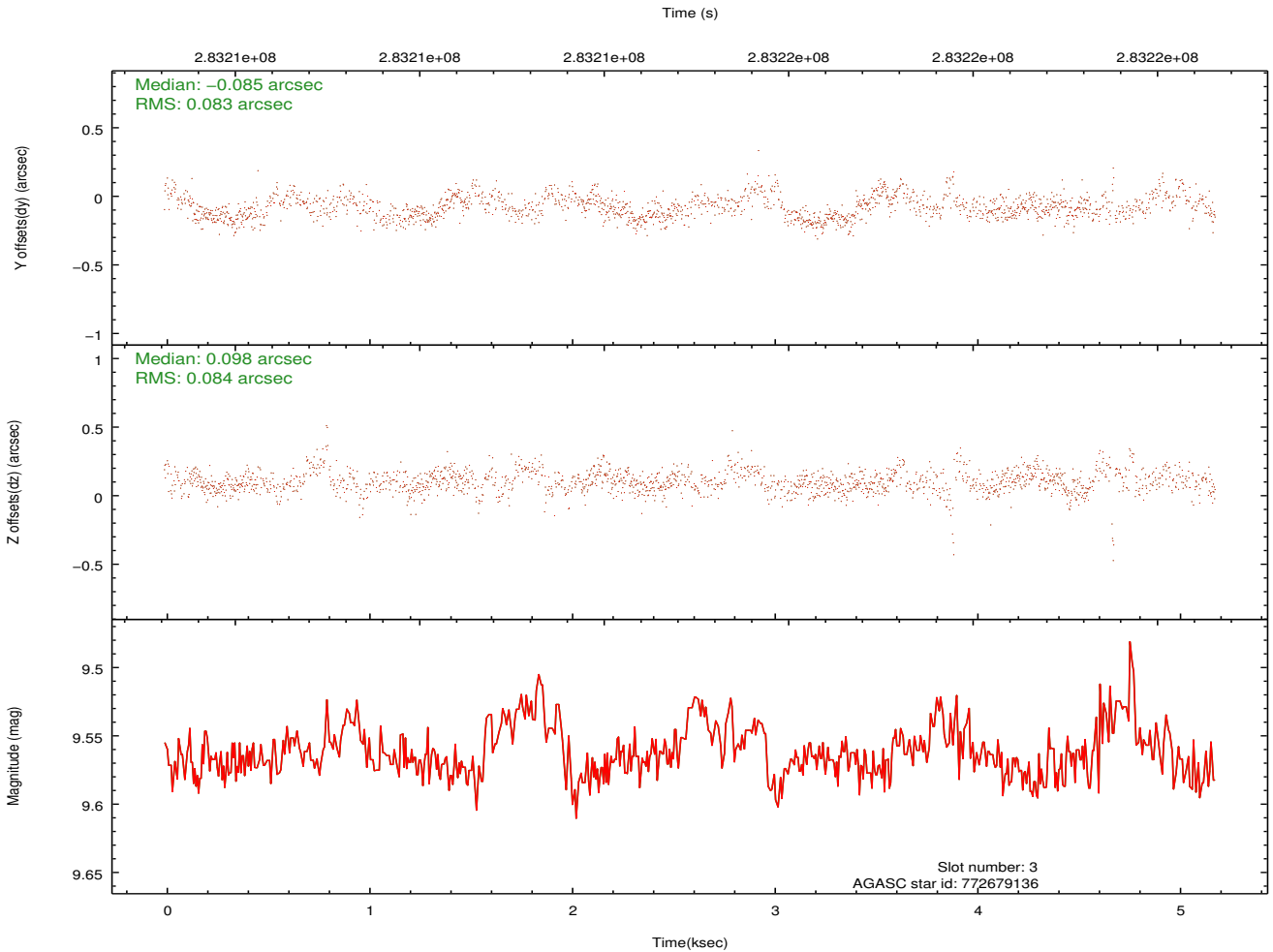
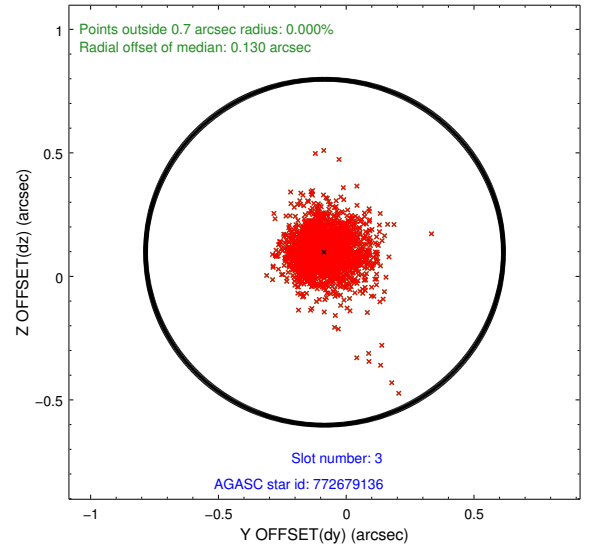
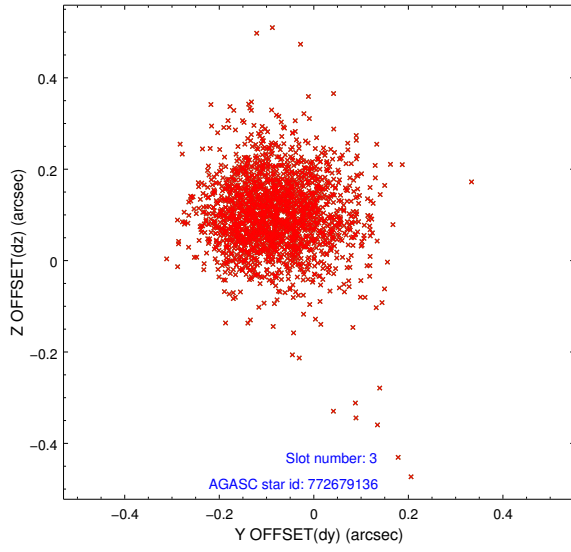
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1265	-0.062	-0.038	0.007	0.011	0.000000	0.000000	-766.70	-1736.85
1	FID	ACIS-S-4	7.20	1265	0.207	0.040	0.006	0.011	0.000000	0.000000	2146.29	170.53
2	FID	ACIS-S-5	7.22	1265	-0.176	0.006	0.007	0.012	0.000000	0.000000	-1818.18	165.45
3	BAD	772679136	9.57	1980	-0.085	0.098	0.120	0.203	70.207311	-19.720001	-2101.56	1868.73
4	GUIDE	773064952	7.35	2528	-0.100	-0.135	0.052	0.086	70.945964	-20.351813	1127.64	882.79
5	GUIDE	773073400	8.64	2529	0.133	0.004	0.102	0.159	70.085379	-20.496088	-1271.81	-830.42
6	GUIDE	773063176	8.66	2529	0.067	-0.018	0.070	0.117	71.193149	-20.014017	1367.09	2338.13
7	GUIDE	773063344	7.46	2529	-0.035	0.069	0.059	0.096	71.231442	-20.273778	1882.02	1547.26

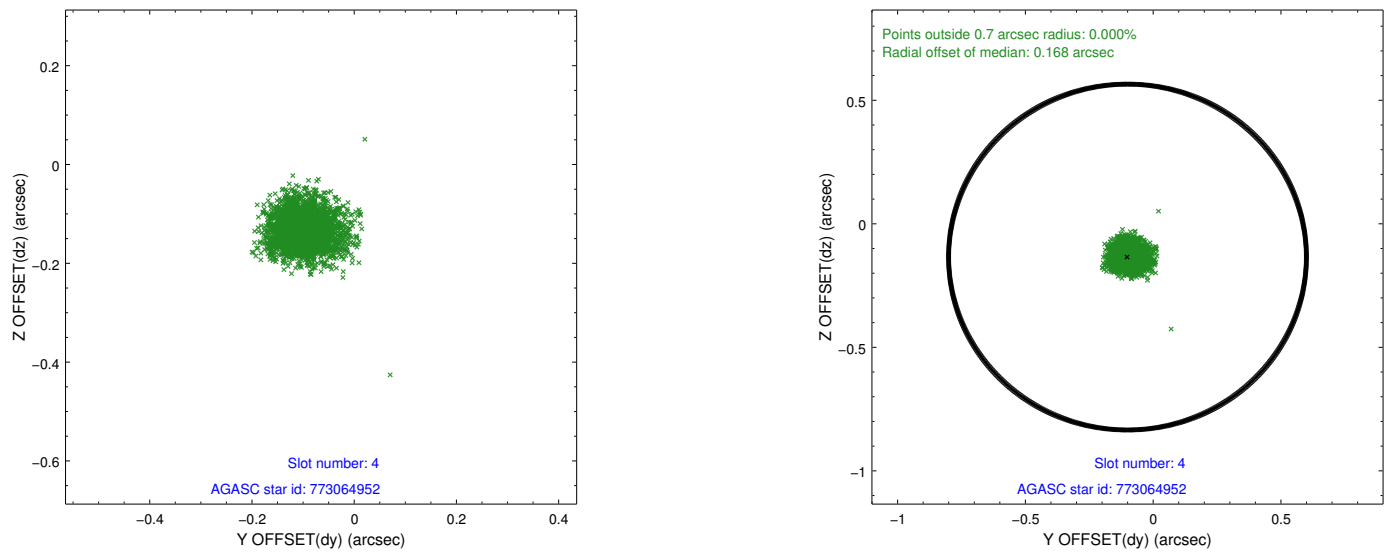
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2.4 Star Slots

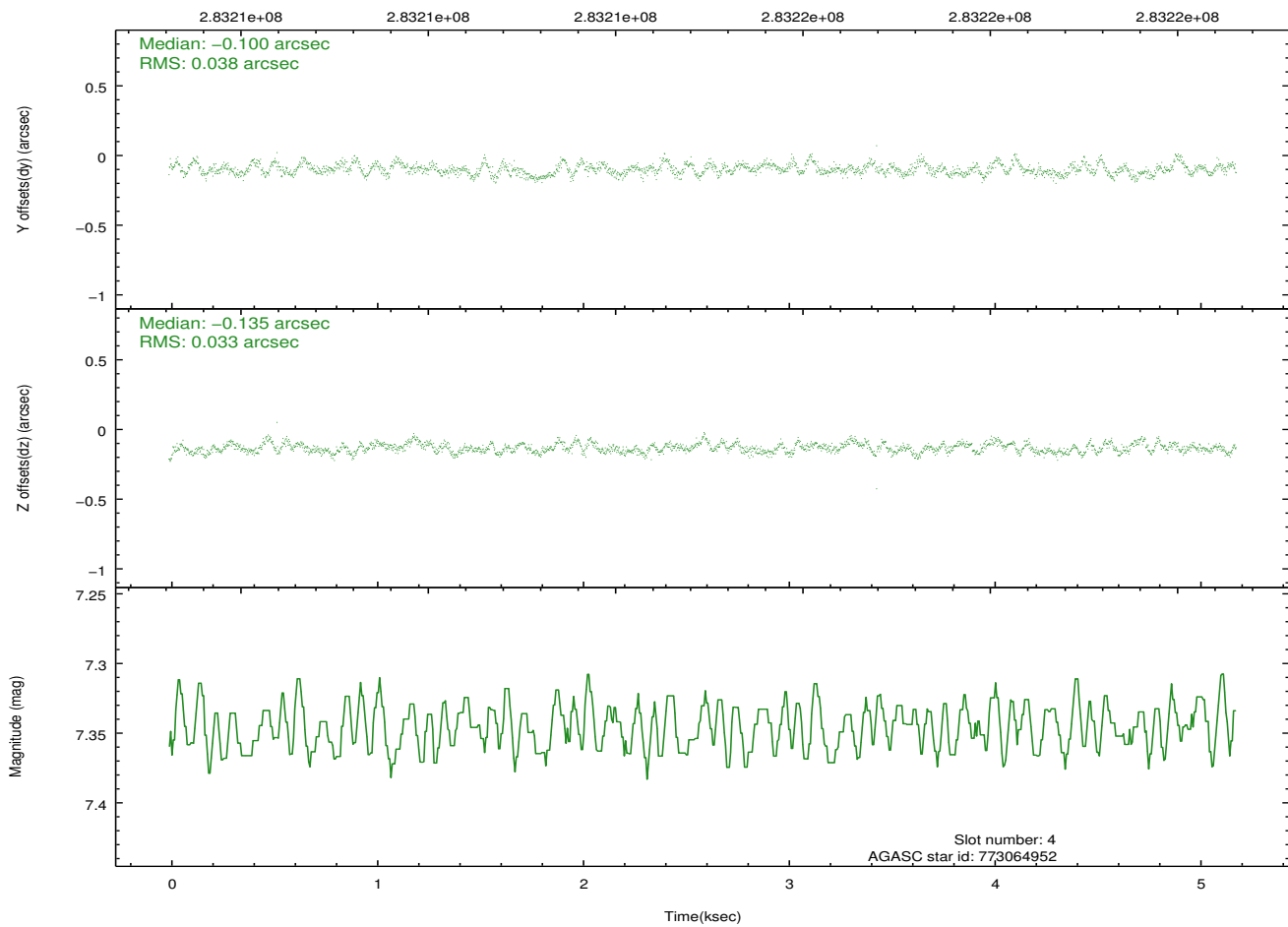
2.4.1 Slot 3



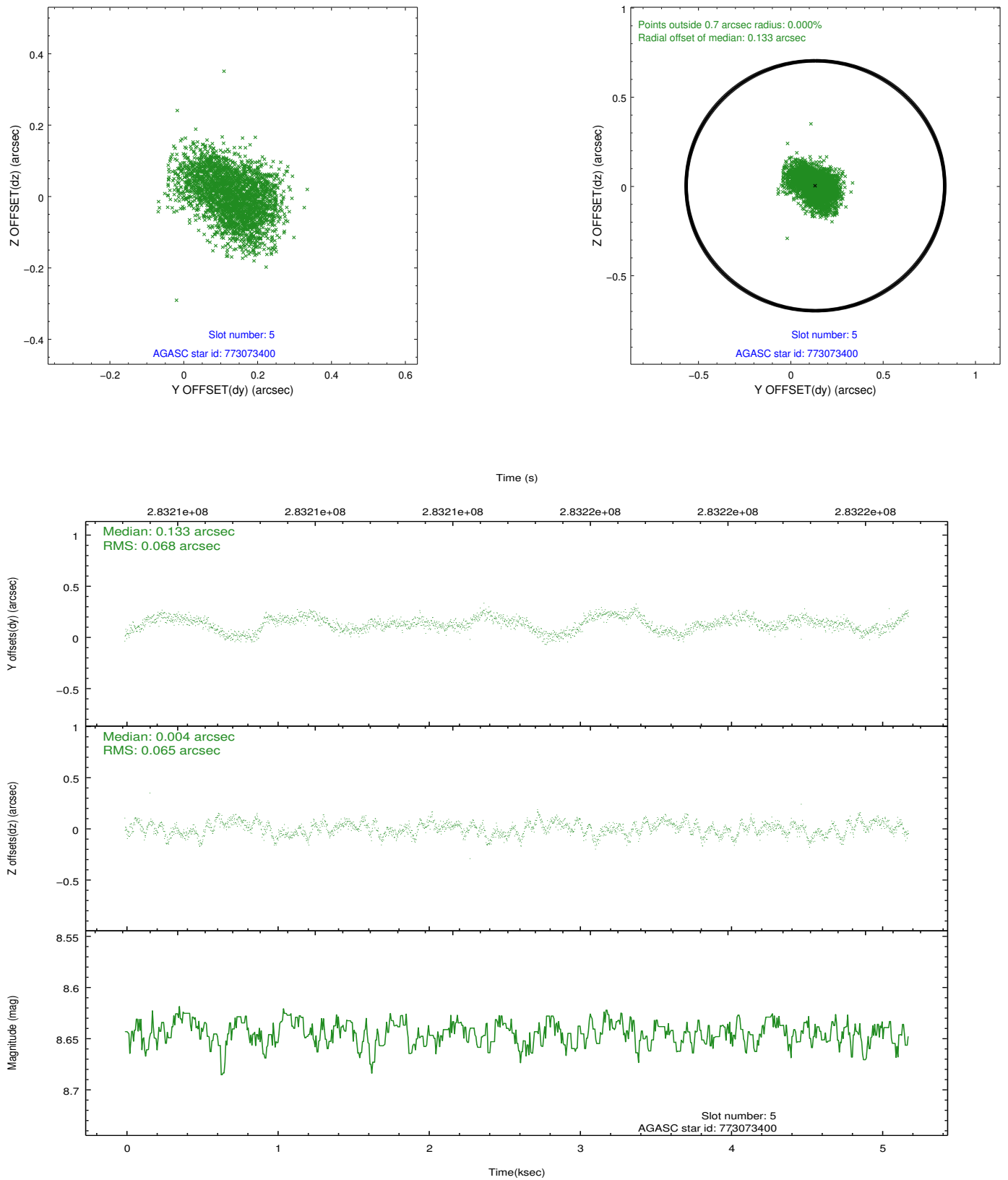
2.4.2 Slot 4



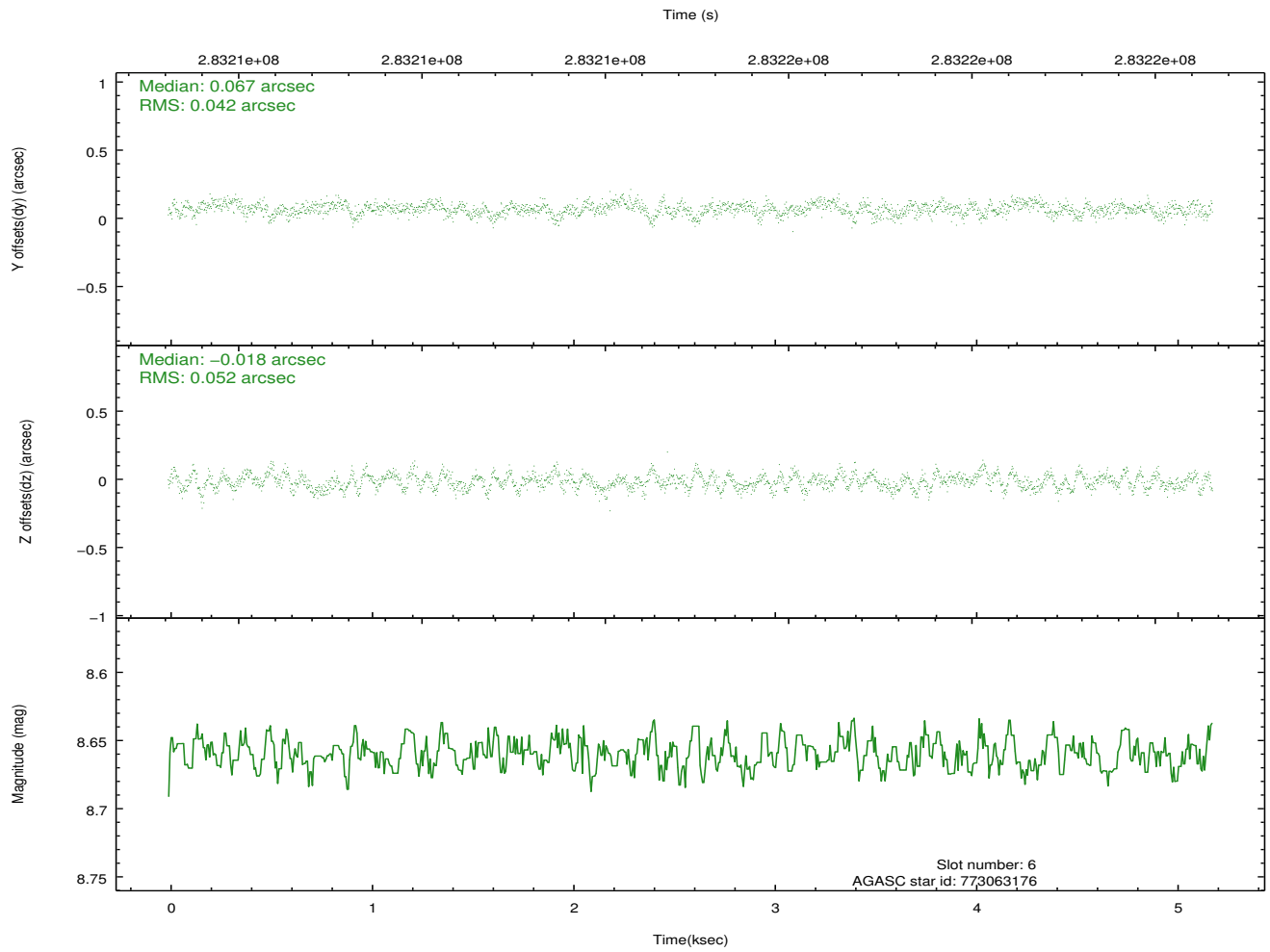
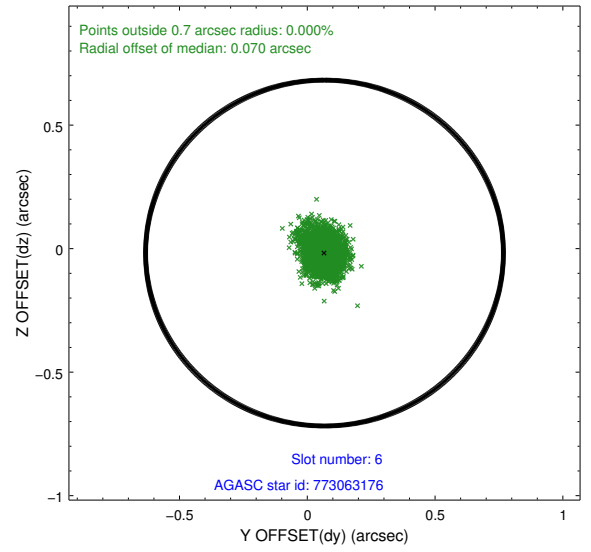
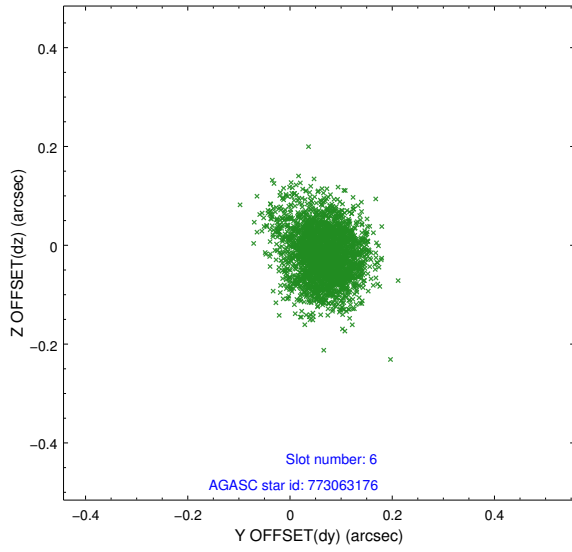
Time (s)



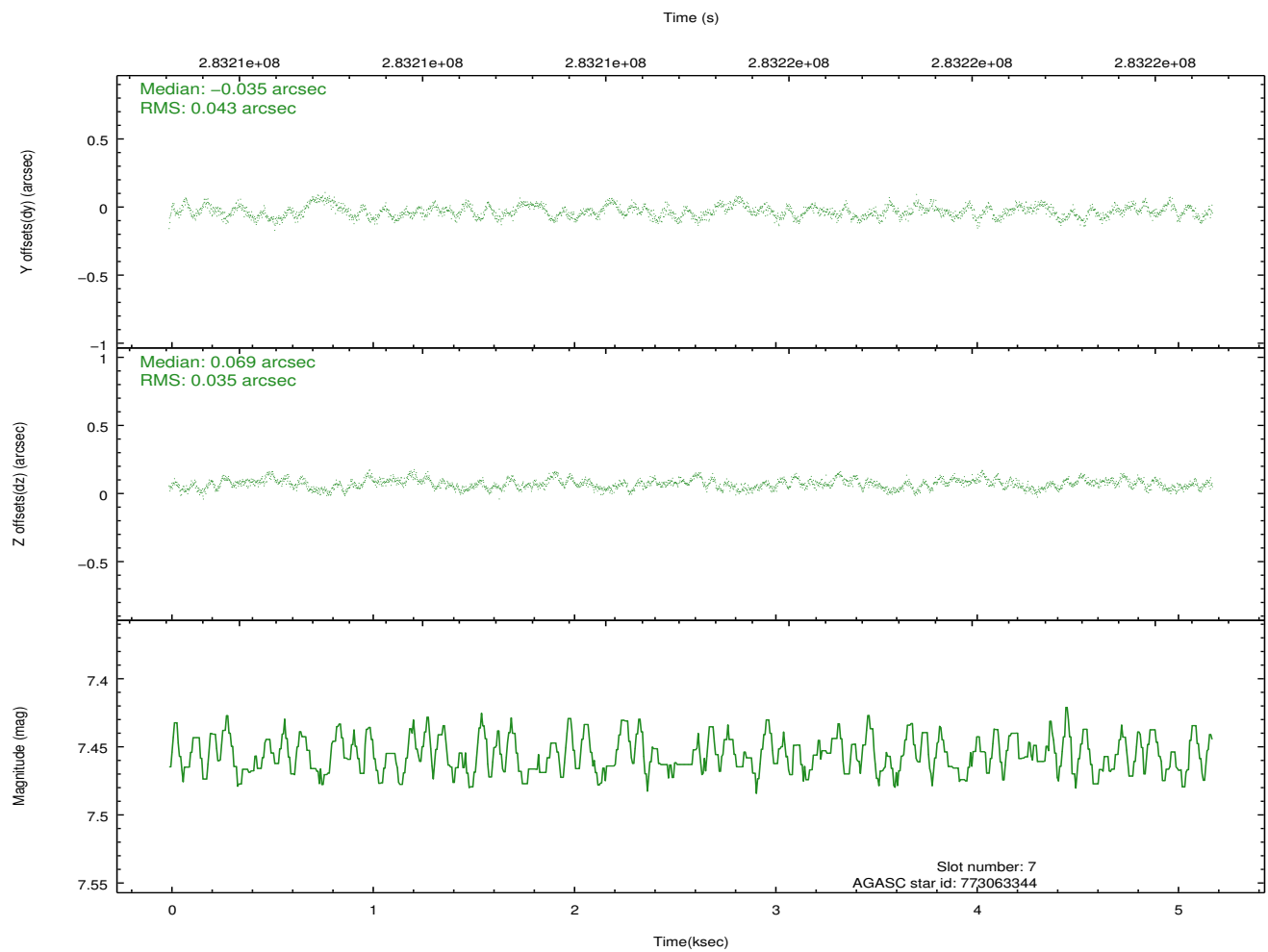
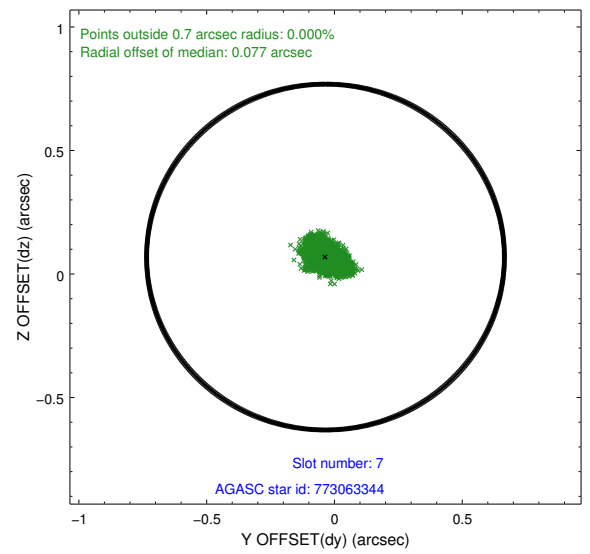
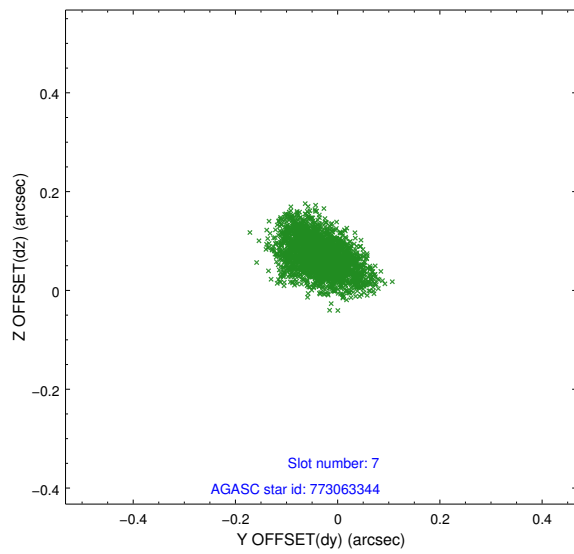
2.4.3 Slot 5



2.4.4 Slot 6

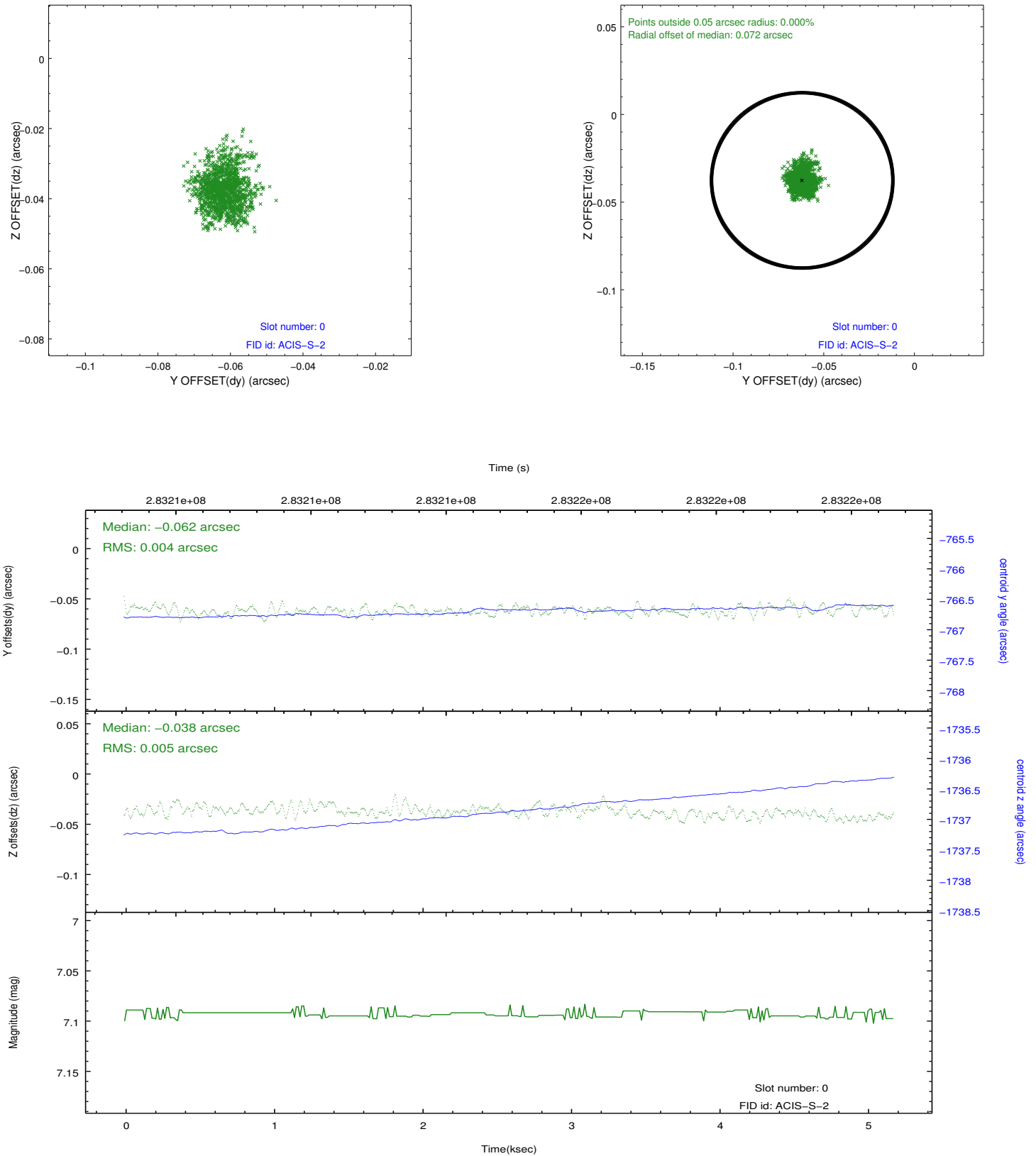


2.4.5 Slot 7

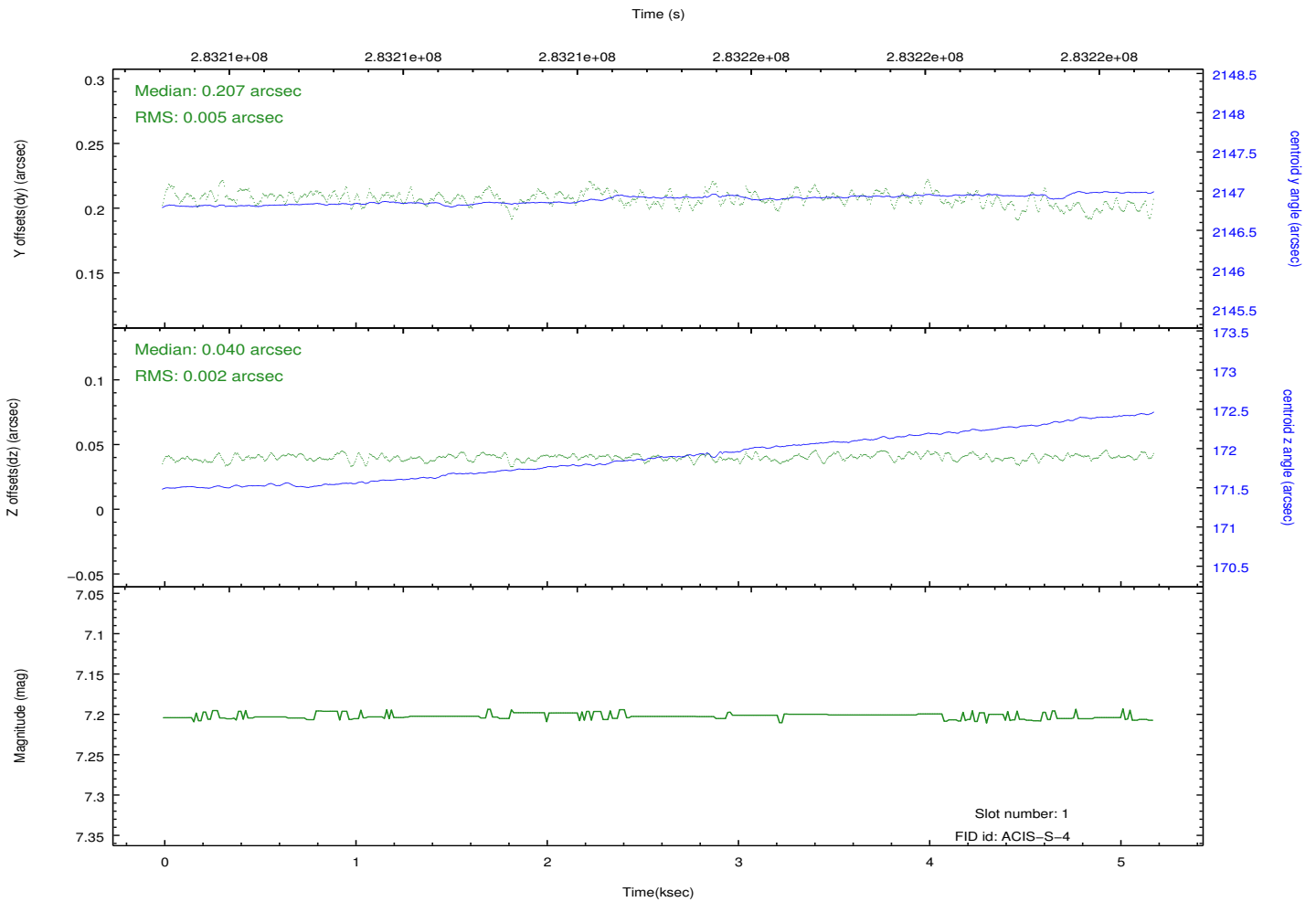
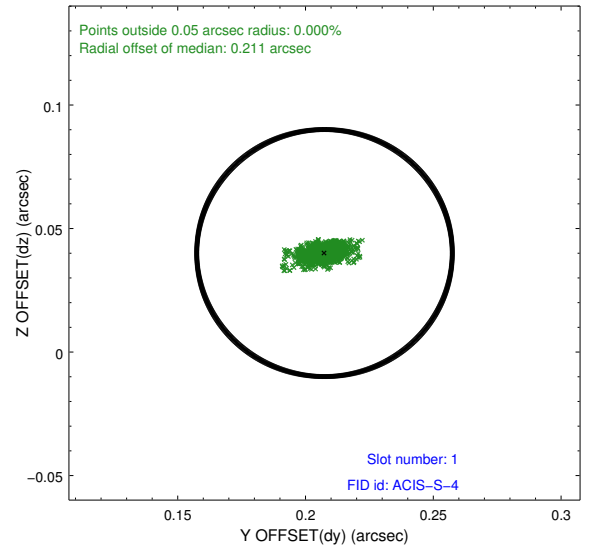
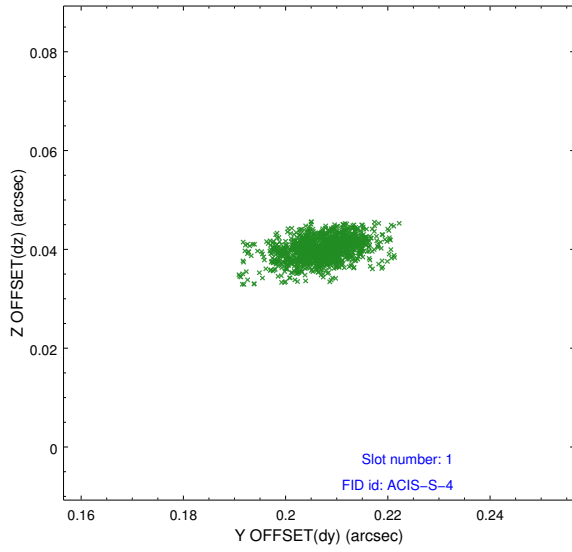


2.5 FID Slots

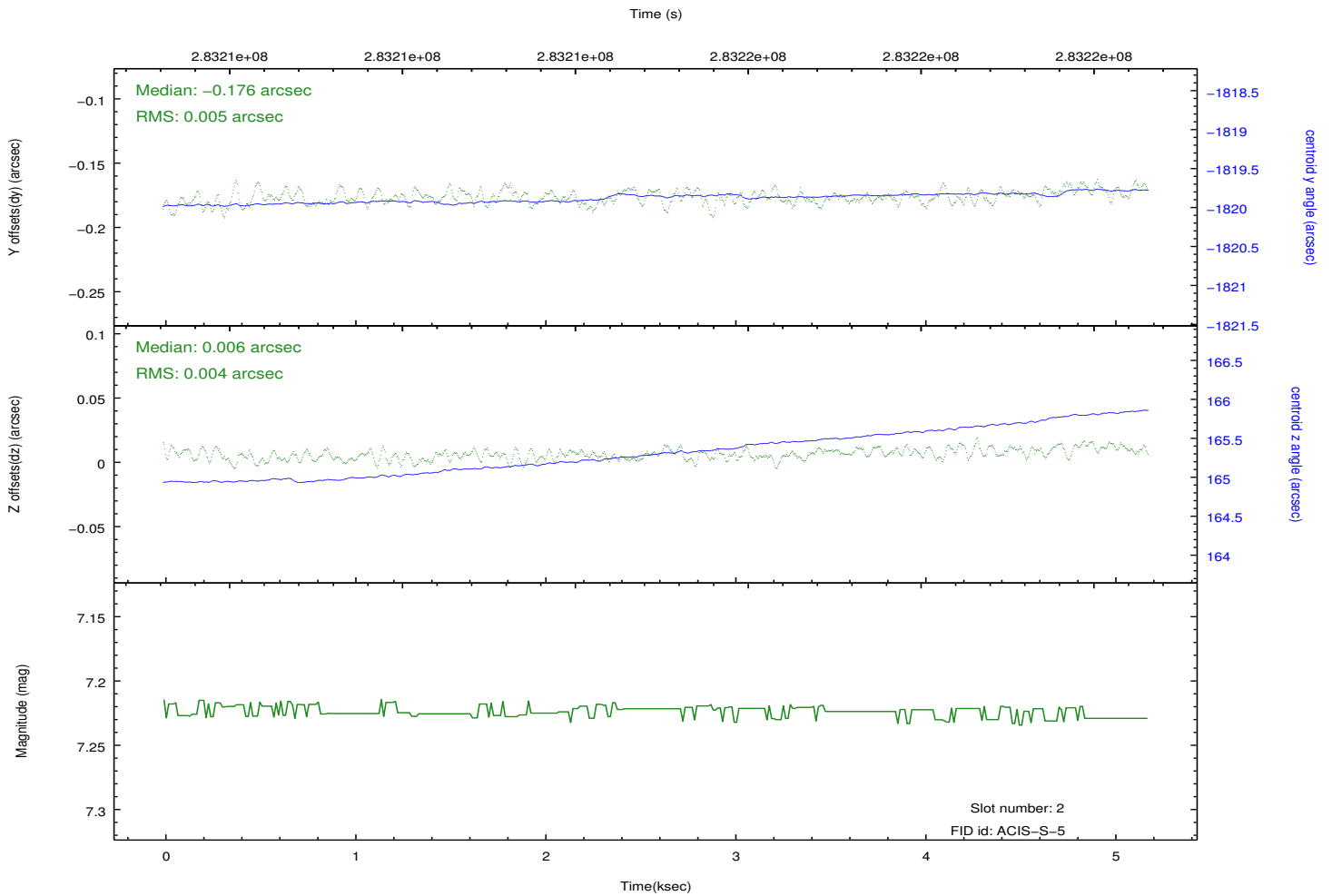
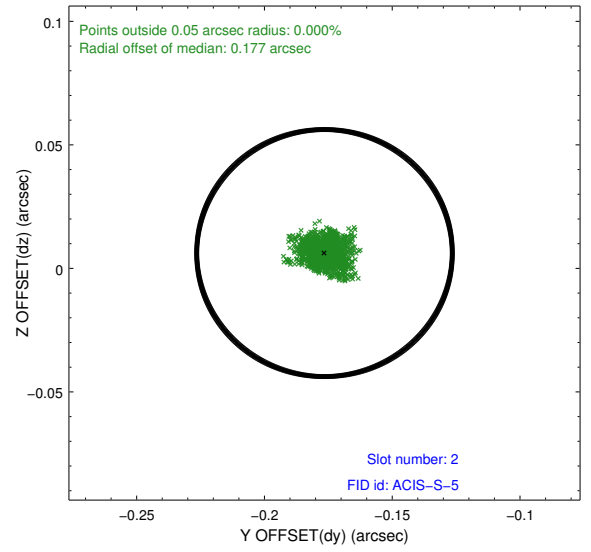
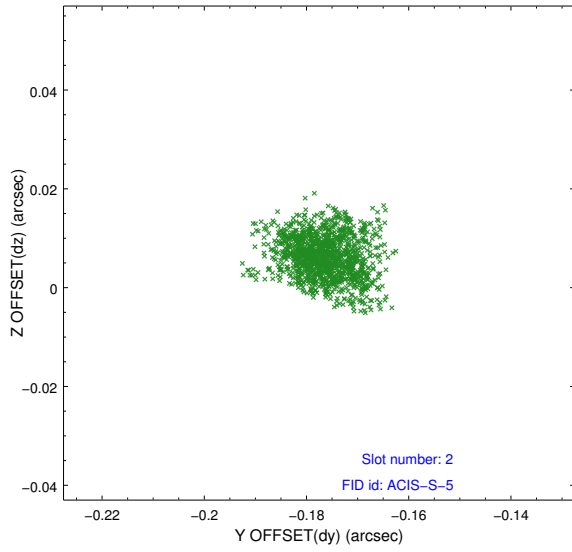
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.04.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.17439998

A.2 Comments