

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7862 - L2 Version 2
Chandra X-Ray Center

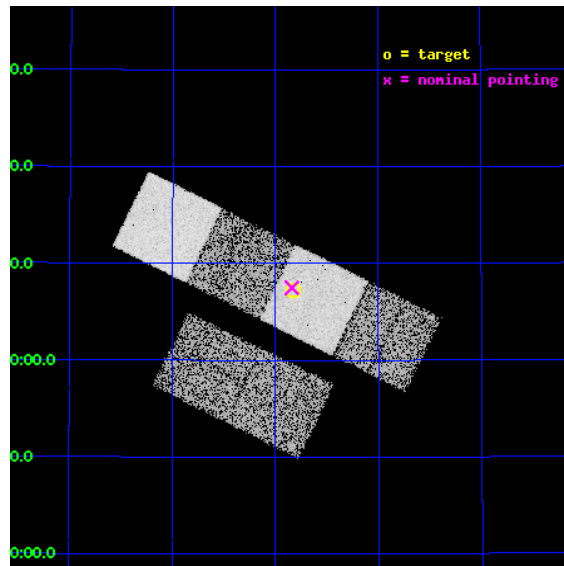
L2 Processing Date : May 2 2012

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1 Front

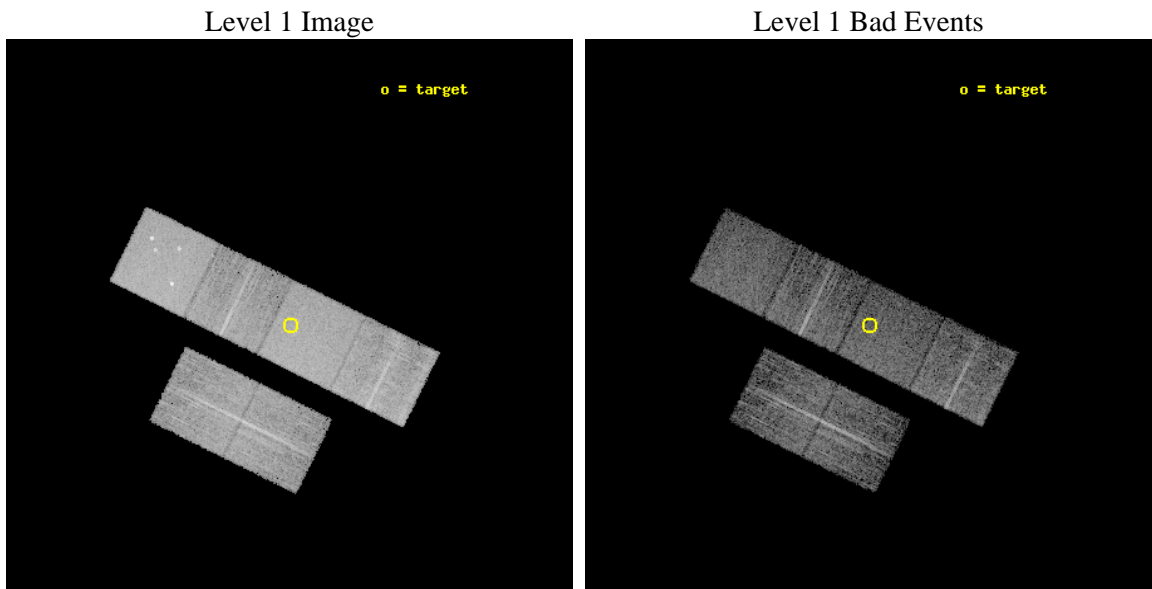
seq_num	701526	Sequence number
obs_id	7862	Observation id
title	Demographics of black holes in the local Universe.	Proposal title
observer	Prof. Smita Mathur	Principal investigator
object	NGC 3938	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	178.20625	Observer's specified target RA [deg]
dec_targ	44.120722	Observer's specified target Dec [deg]
ra_nom	178.20980302586	Nominal RA [deg]
dec_nom	44.124820560031	Nominal Dec [deg]
roll_nom	26.206312422863	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4950.3999816179	Sum of GTIs [s]
livetime	4887.7150362777	Livetime [s]
ontime2	4950.3999816179	Sum of GTIs [s]
ontime3	4950.3999816179	Sum of GTIs [s]
ontime5	4950.3999816179	Sum of GTIs [s]
ontime6	4950.3999816179	Sum of GTIs [s]
ontime7	4950.3999816179	Sum of GTIs [s]
ontime8	4950.3999816179	Sum of GTIs [s]
l2events	79929	Number of level 2 events



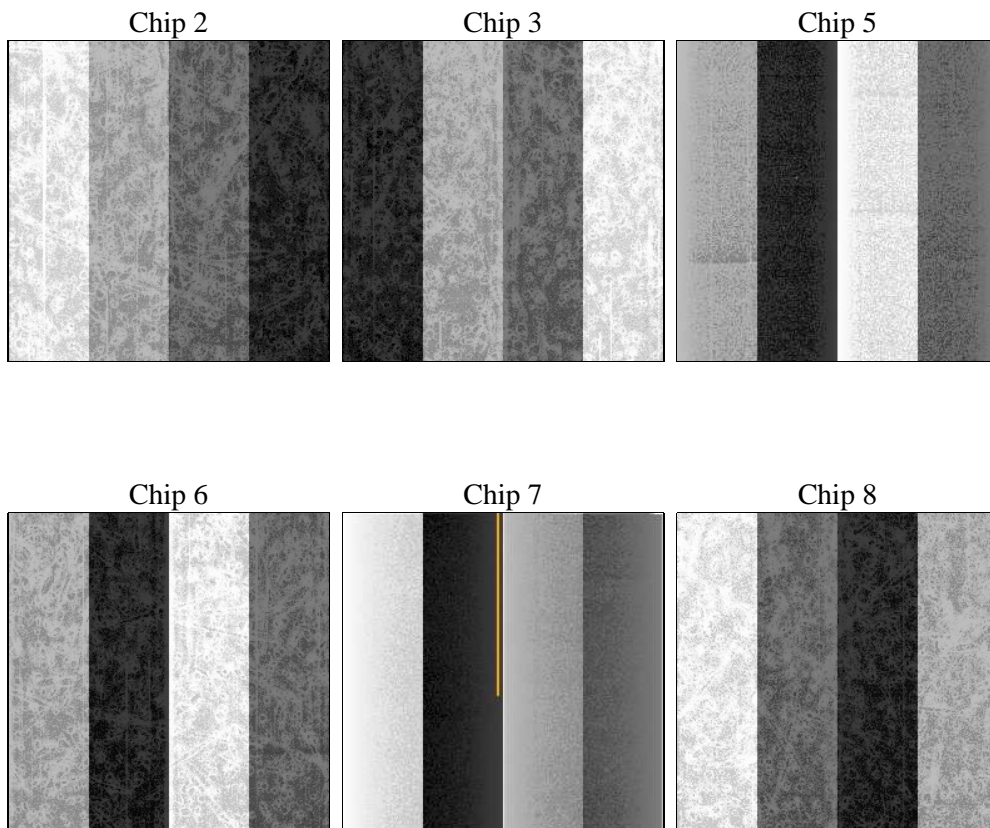
2 OBI

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	8.4.4	Processing system revision	ontime	4950.3999816179	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	4950.3999816179	Sum of GTIs [s]
date	2012-05-02T20:58:14	Date and time of file creation	ontime3	4950.3999816179	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4950.3999816179	Sum of GTIs [s]
			ontime6	4950.3999816179	Sum of GTIs [s]
			ontime7	4950.3999816179	Sum of GTIs [s]
			ontime8	4950.3999816179	Sum of GTIs [s]
			l1events	351450	Number of level 1 events

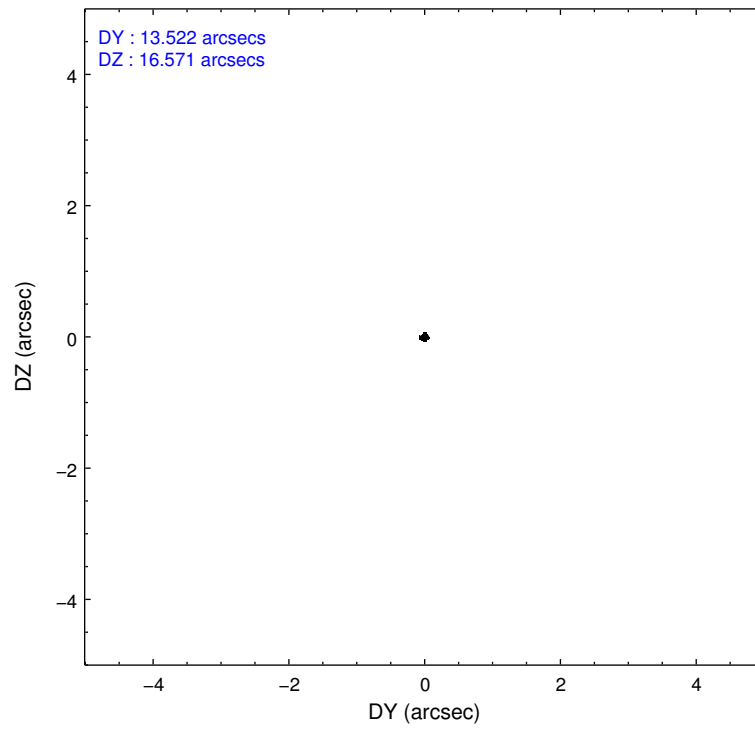
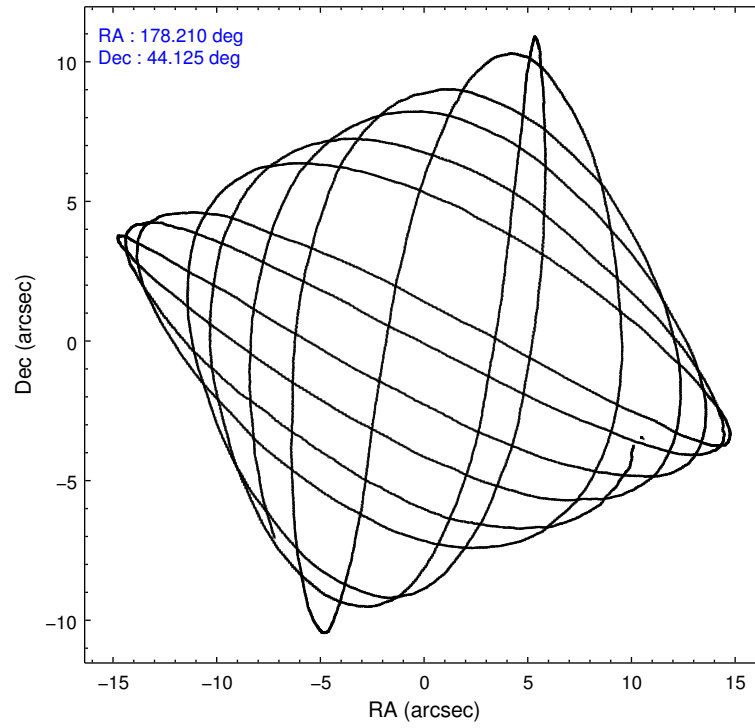
2.1.4 Events

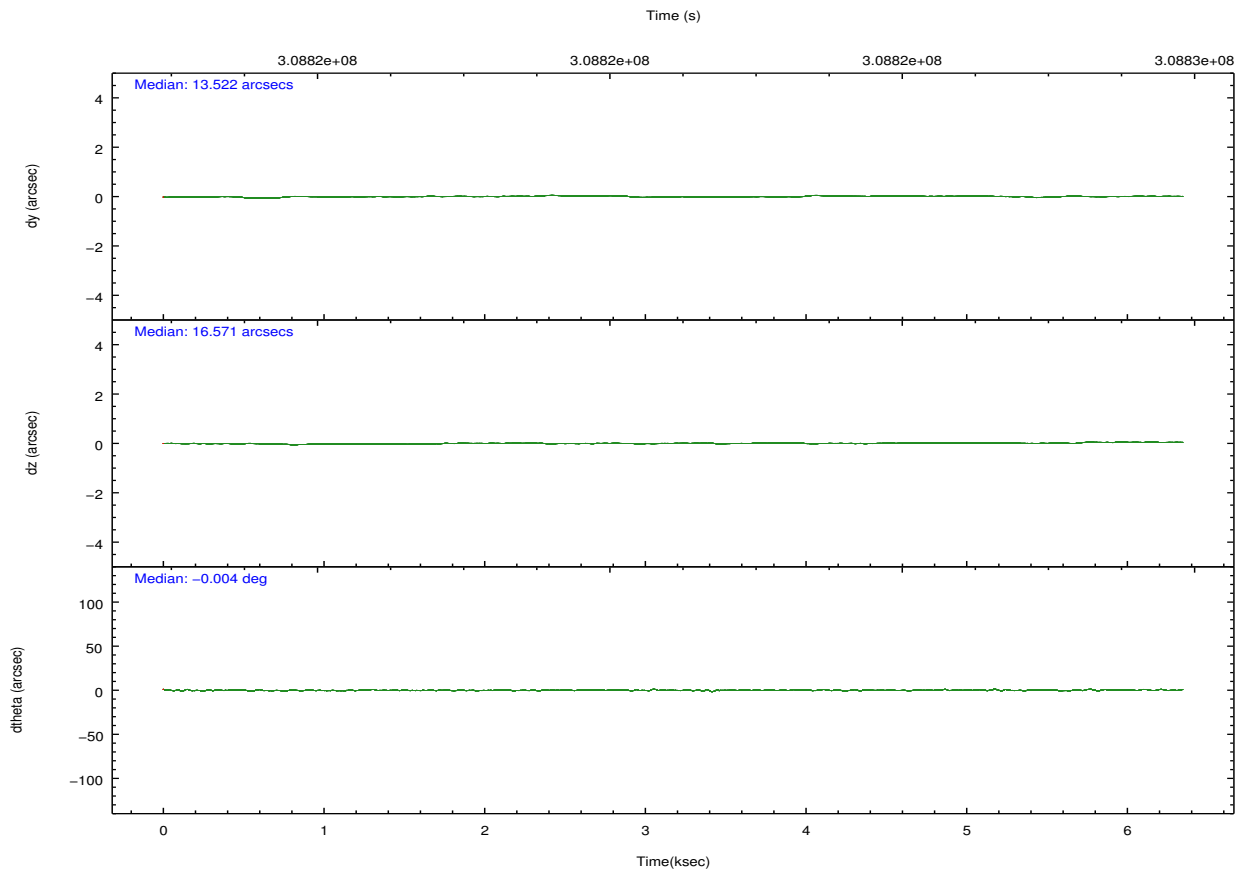
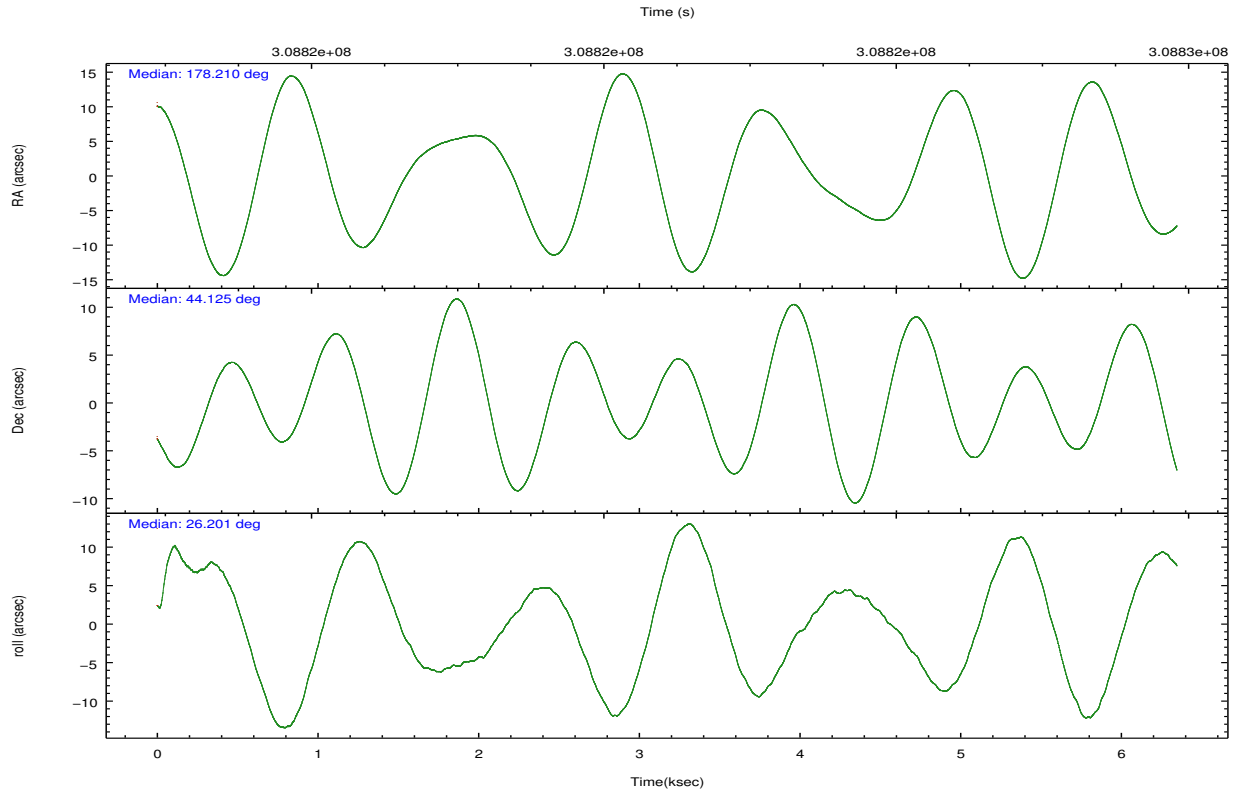
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	49509	47790	76842	48087	66848	62374	grade 0 events	2587	2484	4955	2209	2386	4465
rejected events	43672	42143	40569	42407	39274	48174		5%	5%	6%	4%	3%	7%
rejected %	88%	88%	52%	88%	58%	77%	grade 1 events	32	27	138	30	63	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	1298	1130	10584	1283	5651	3249
								2%	2%	13%	2%	8%	5%
							grade 3 events	500	545	1266	507	2312	1479
								1%	1%	1%	1%	3%	2%
							grade 4 events	537	507	1337	526	2297	1408
								1%	1%	1%	1%	3%	2%
							grade 5 events	1958	2150	5302	2276	6216	3005
								3%	4%	6%	4%	9%	4%
							grade 6 events	918	991	18158	1162	14946	3608
								1%	2%	23%	2%	22%	5%
							grade 7 events	41679	39956	35102	40094	32977	45109
								84%	83%	45%	83%	49%	72%

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	178.189103	178.2098030258579	Subarray requested	NONE	NONE
[deg] Pointing Dec	44.101895	44.12482056003096	Alternating exposures requested	N	N
[deg] Pointing Roll	26.064101	26.20631242286306	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	308820610.184000	308818927.81606			
Observation start date	2007-10-15T07:29:05	2007-10-15T07:02:07			
[s] Observation end time (MET)	308825610.184000	308826545.61643			
Observation end date	2007-10-15T08:52:25	2007-10-15T09:09:05			
Read mode	TIMED	TIMED			

2.3 Aspect



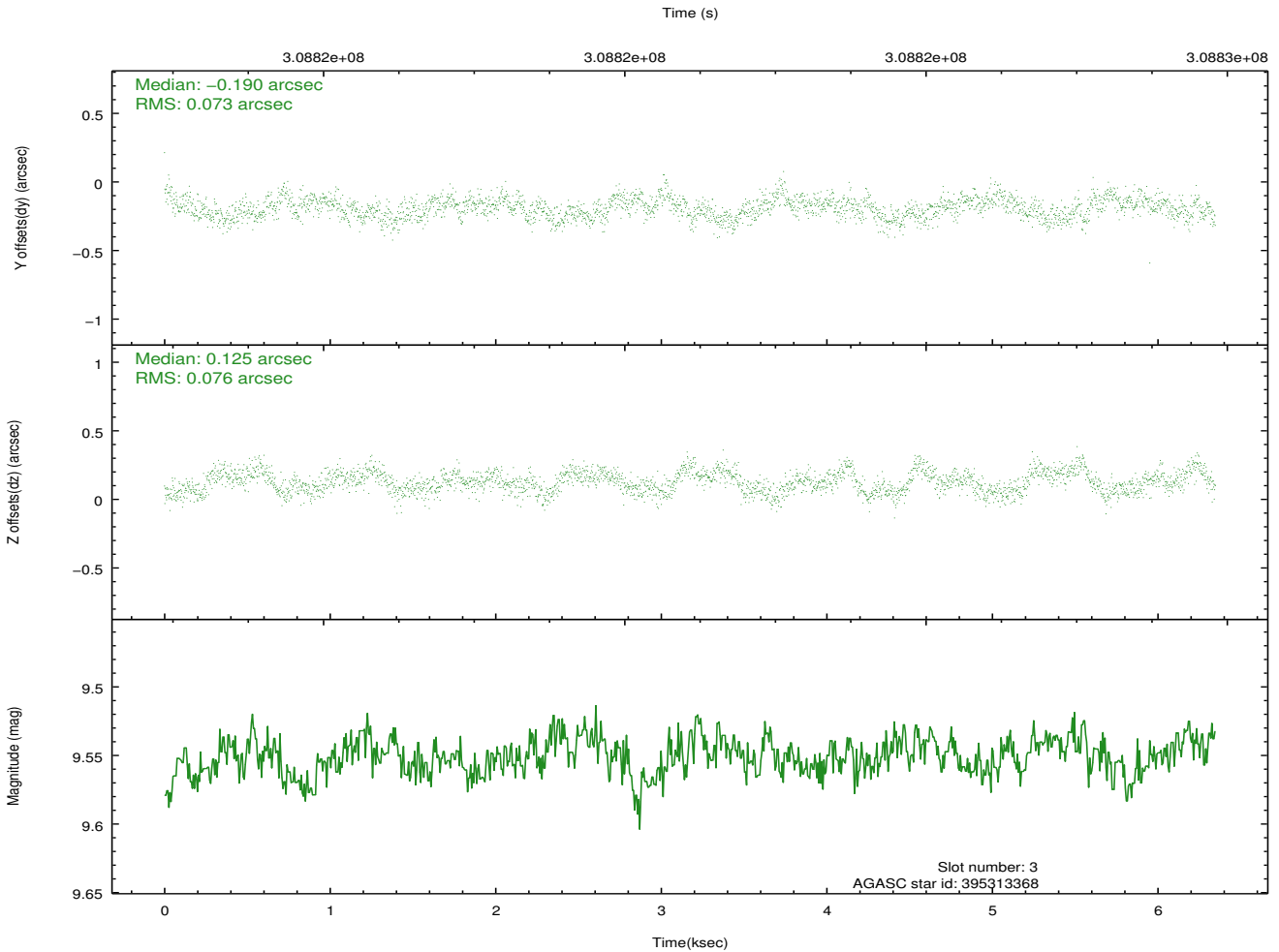
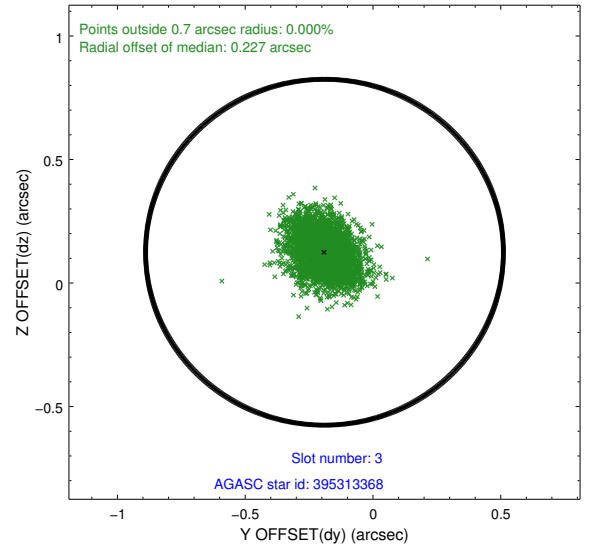
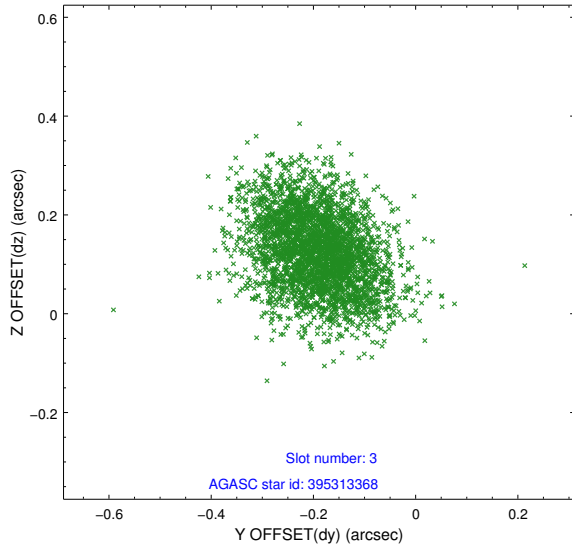


Slot Statistics

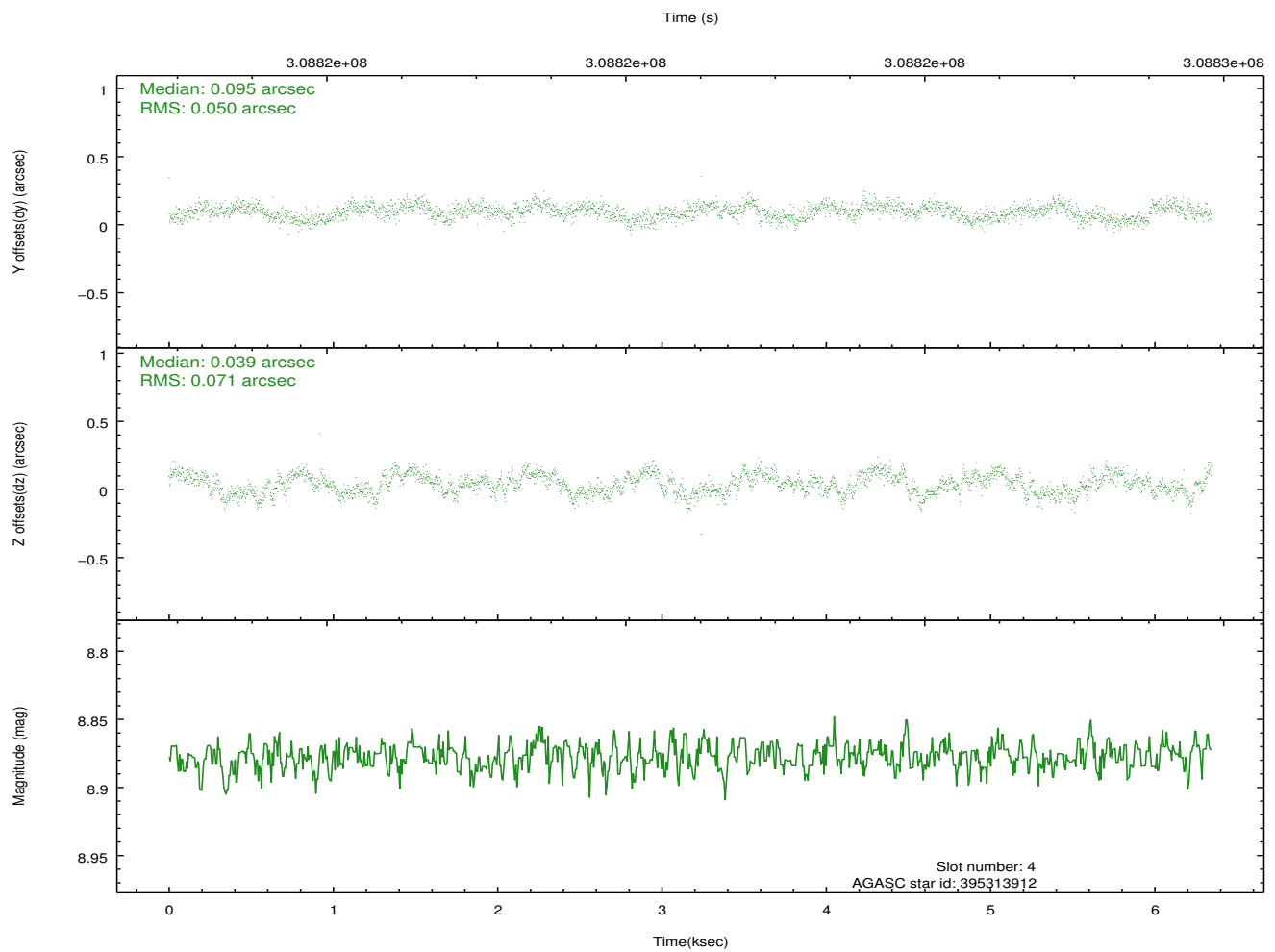
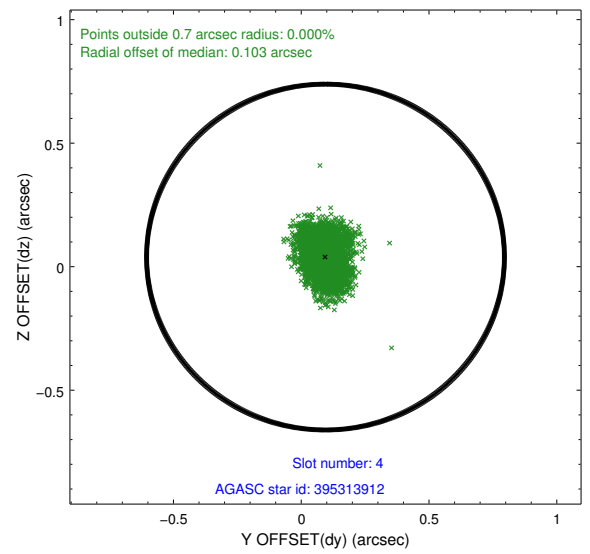
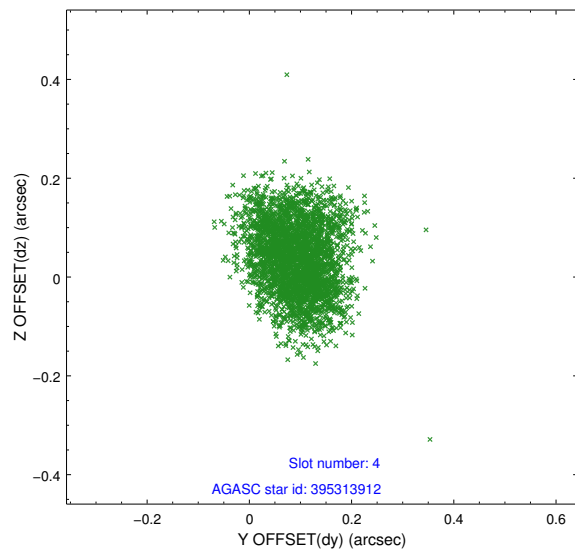
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1549	0.075	-0.085	0.007	0.011	0.000000	0.000000	929.63	-1733.73
1	FID	ACIS-S-4	7.18	1549	0.113	0.027	0.006	0.010	0.000000	0.000000	2147.61	169.57
2	FID	ACIS-S-5	7.22	1549	-0.216	0.070	0.006	0.011	0.000000	0.000000	-1818.32	164.31
3	GUIDE	395313368	9.55	3096	-0.190	0.125	0.112	0.183	178.813385	44.022889	1329.61	-959.64
4	GUIDE	395313912	8.88	3097	0.095	0.039	0.093	0.145	178.075487	44.228225	-62.99	537.27
5	GUIDE	395314656	9.34	3093	0.019	-0.277	0.093	0.149	177.438863	44.537587	-1036.46	2262.53
6	GUIDE	395315296	9.59	3091	0.030	-0.051	0.115	0.195	178.489175	44.734885	1691.17	1712.05
7	GUIDE	395317568	8.97	3095	0.057	0.166	0.088	0.137	178.190375	43.600155	-789.71	-1623.17

2.4 Star Slots

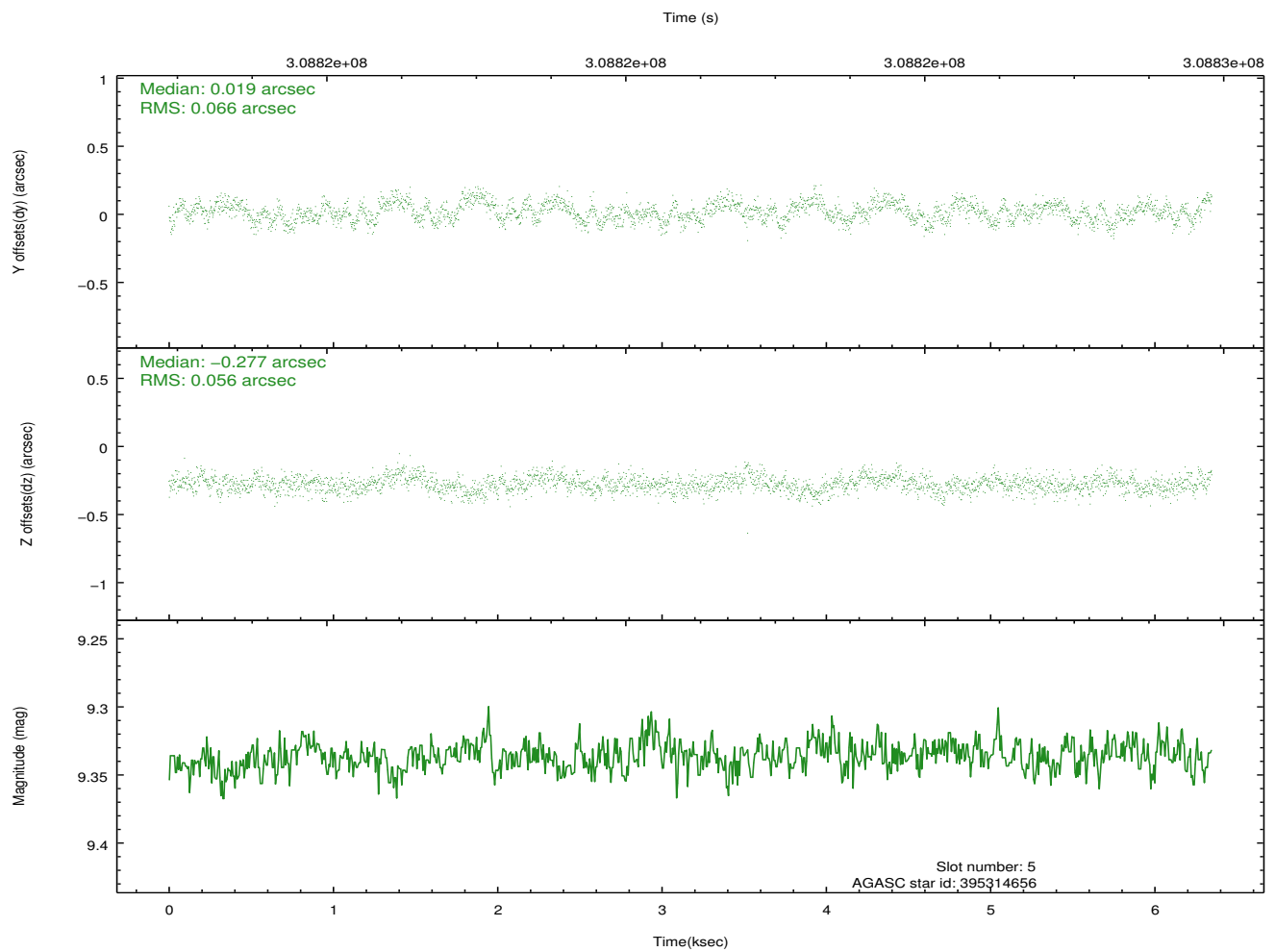
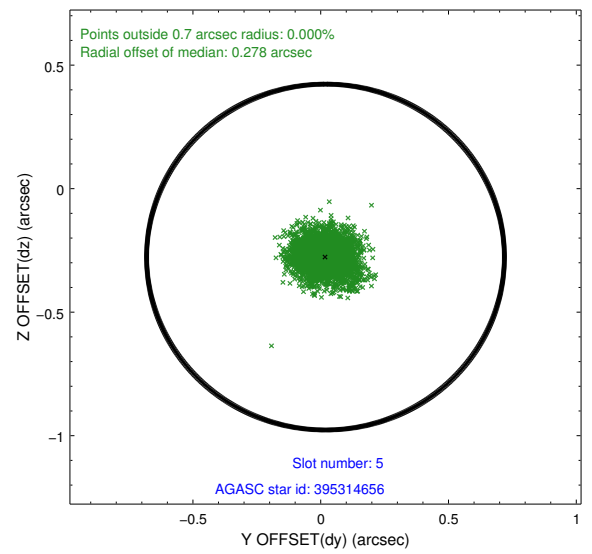
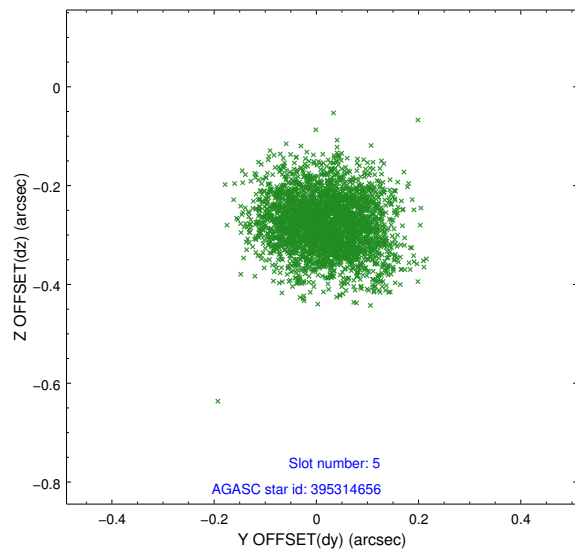
2.4.1 Slot 3



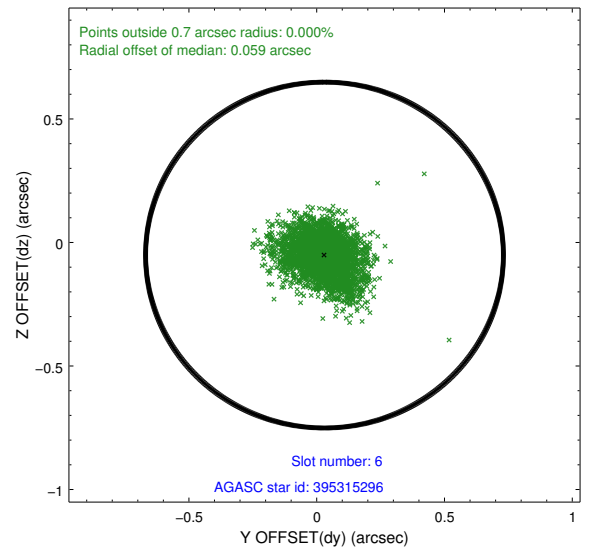
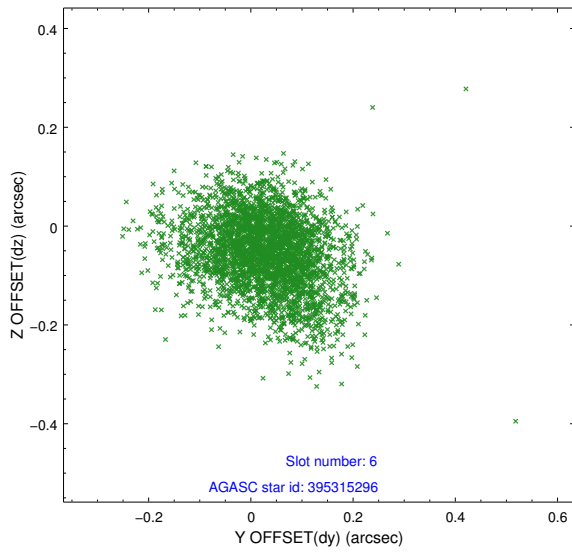
2.4.2 Slot 4



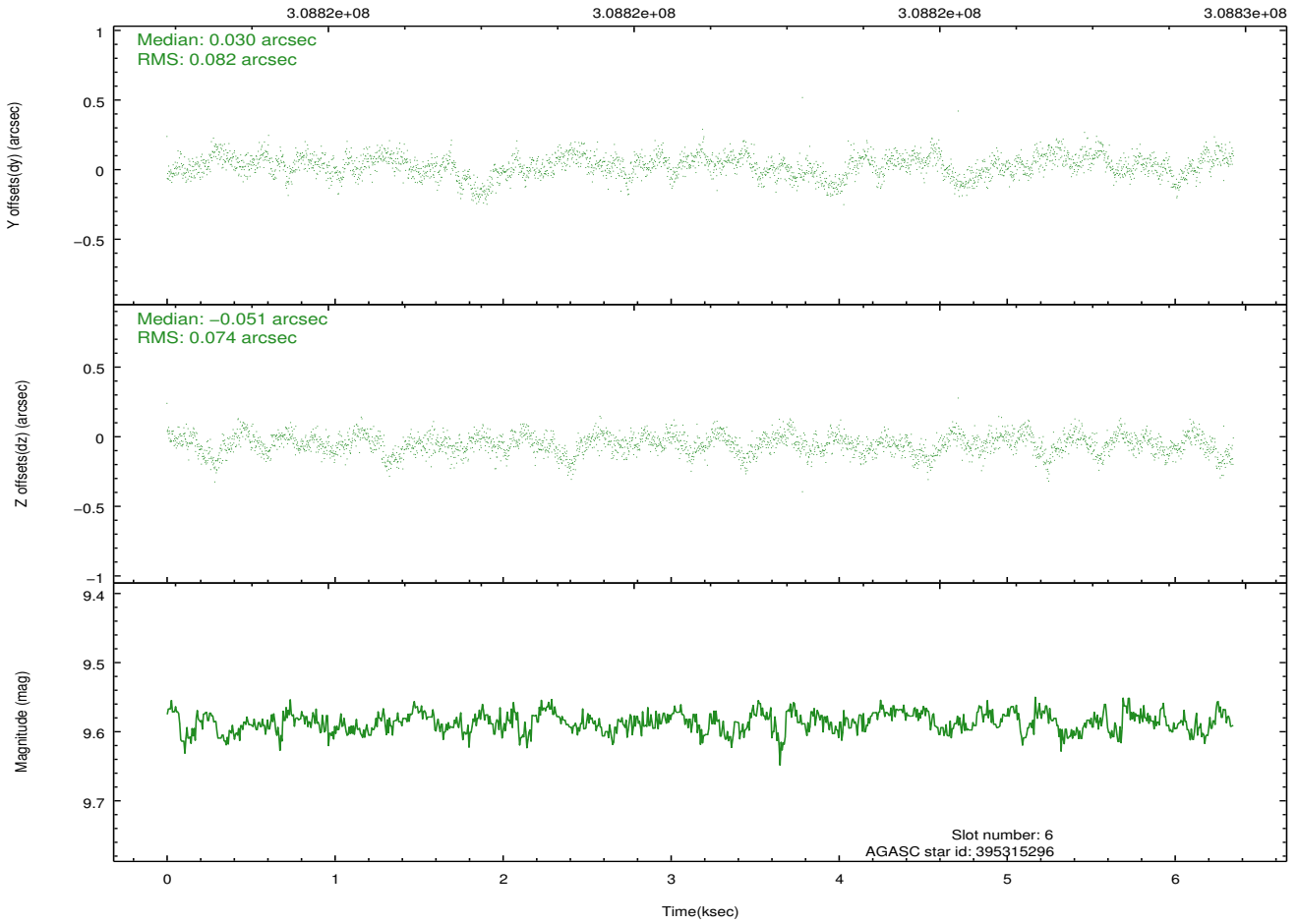
2.4.3 Slot 5



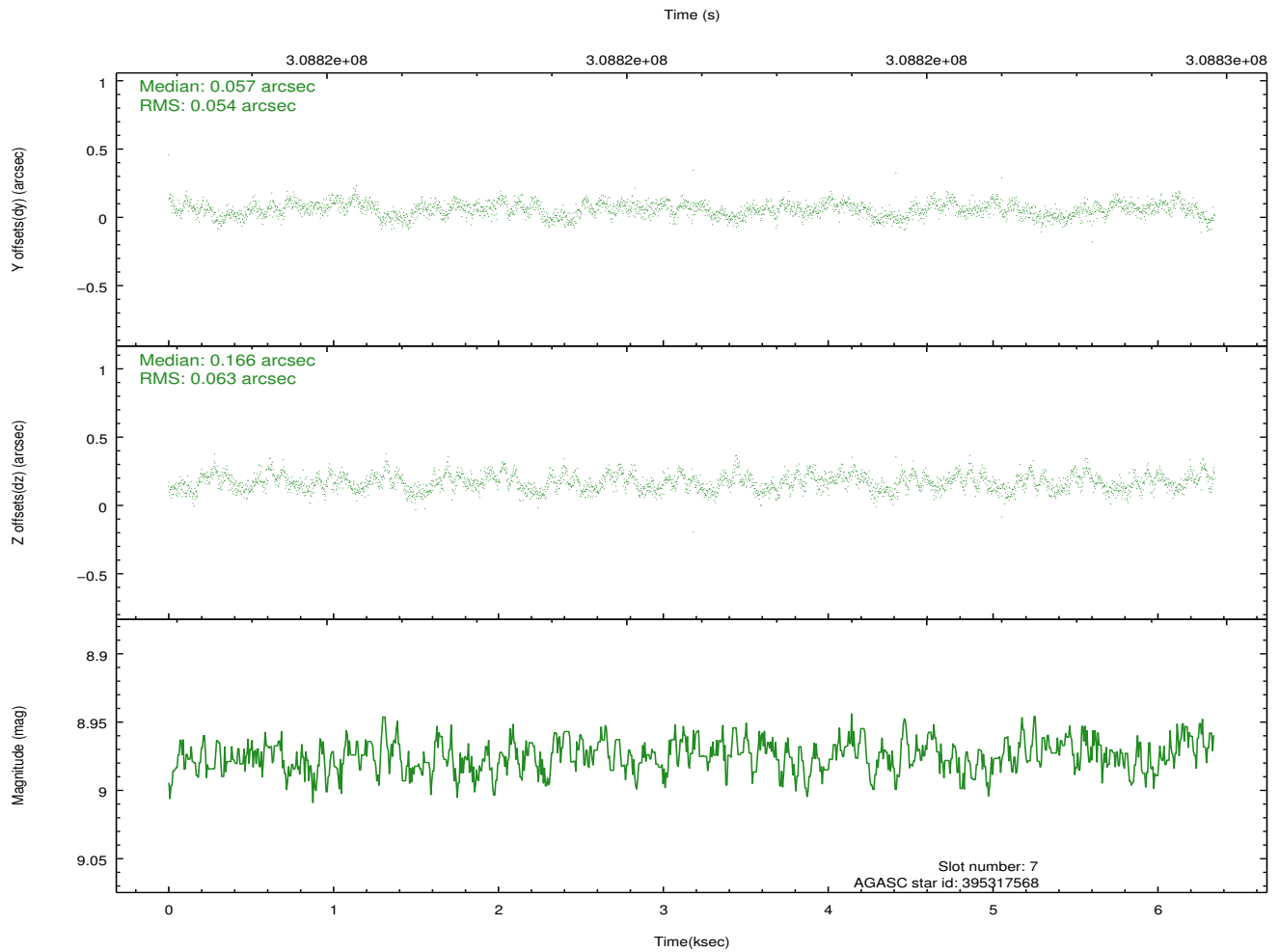
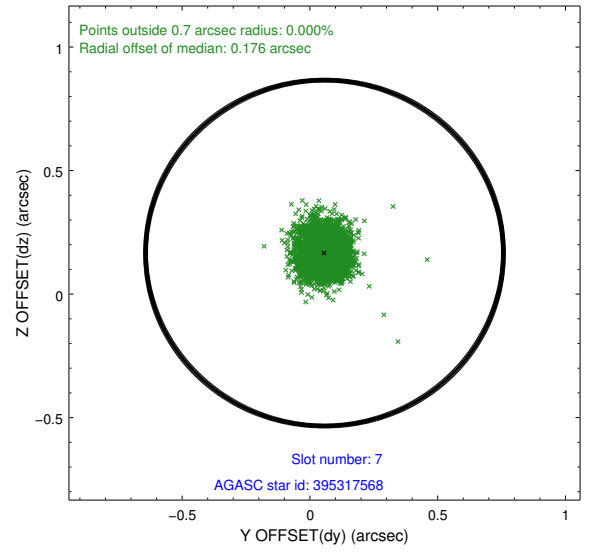
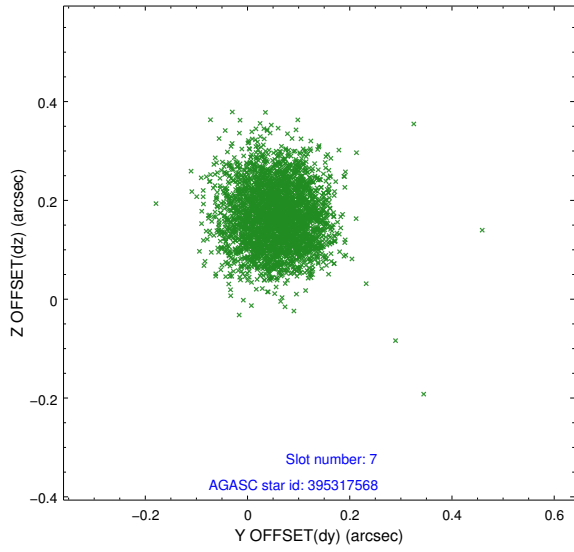
2.4.4 Slot 6



Time (s)

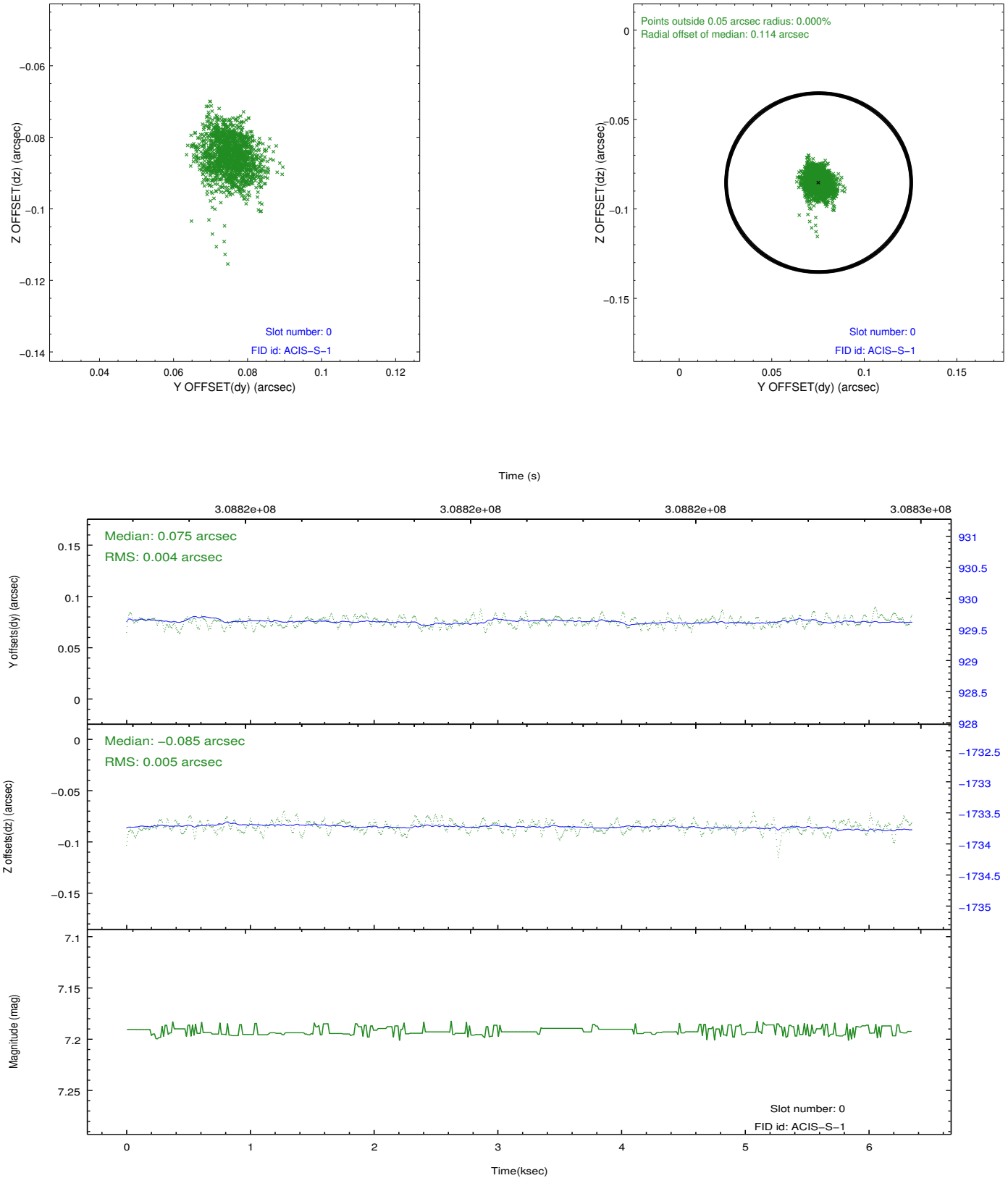


2.4.5 Slot 7

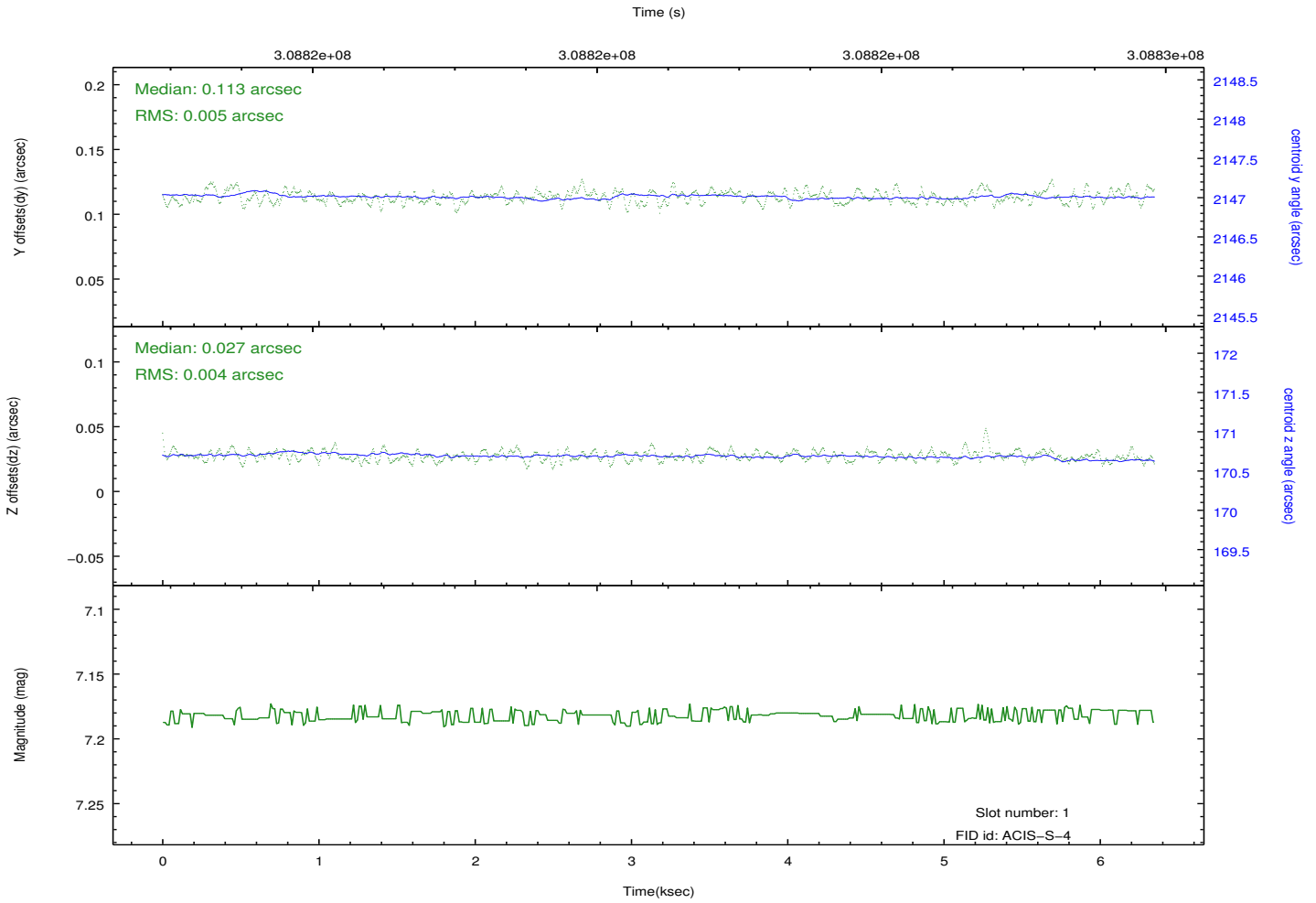
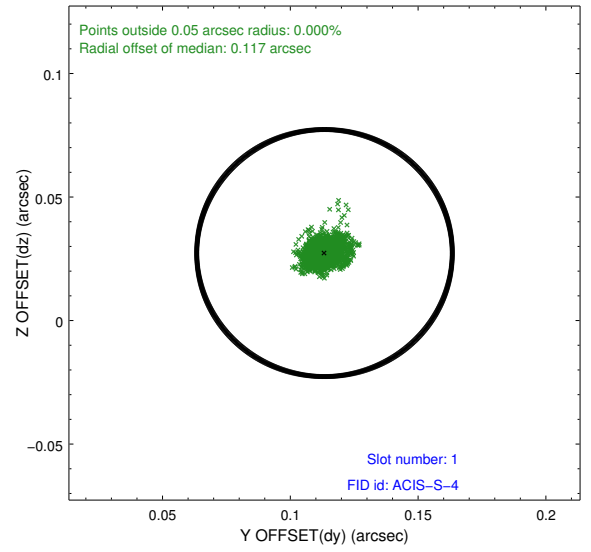
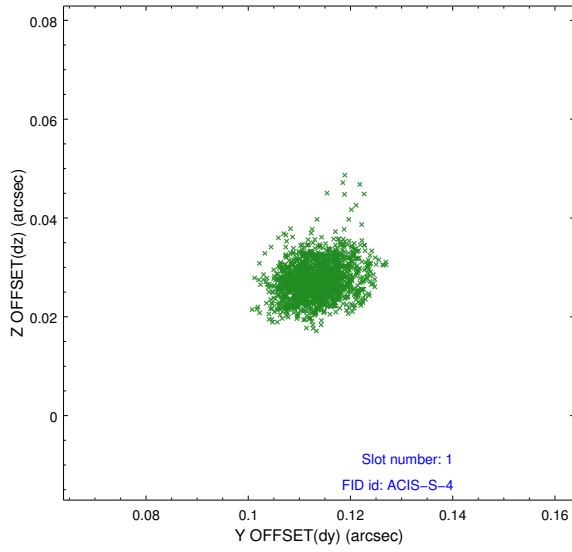


2.5 FID Slots

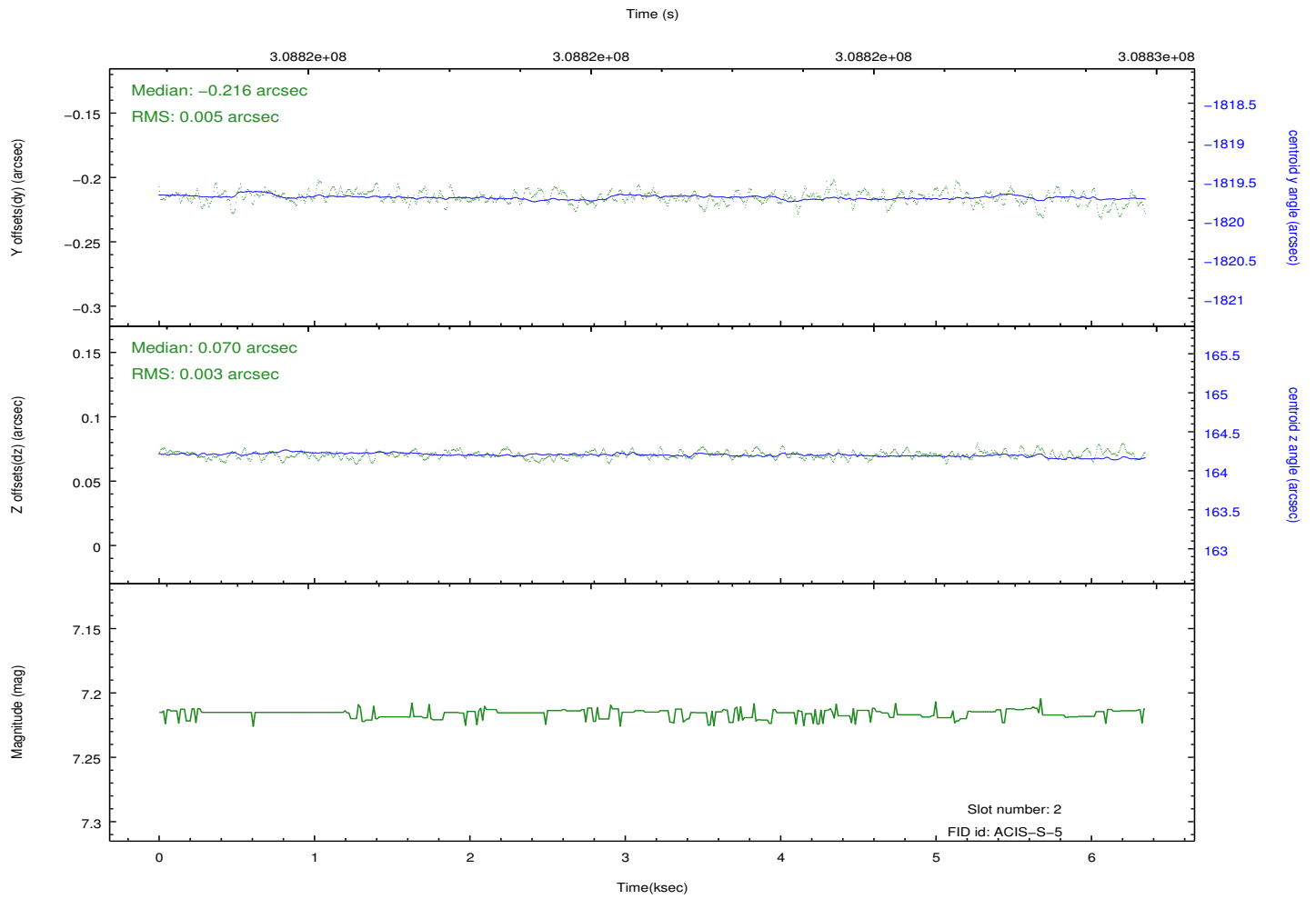
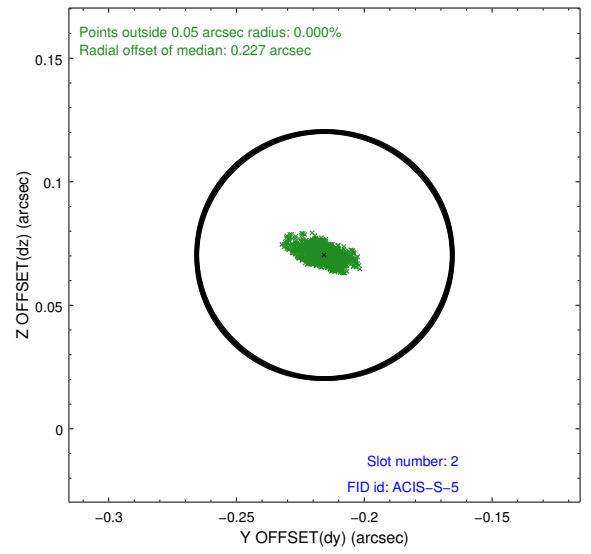
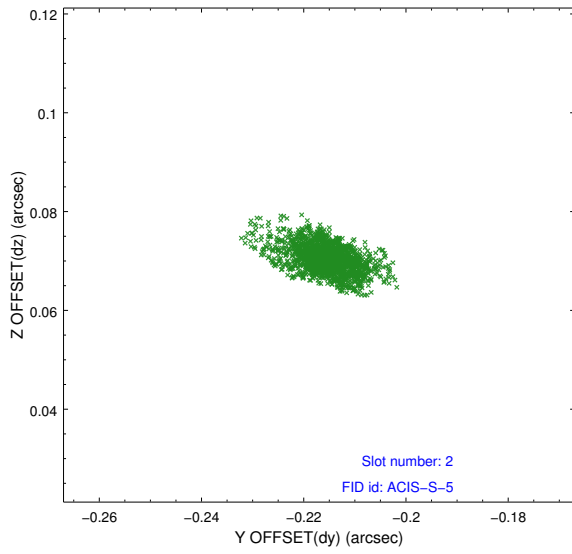
2.5.1 Slot 0



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)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.95039998

A.2 Comments