

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7865 - L2 Version 3
Chandra X-Ray Center

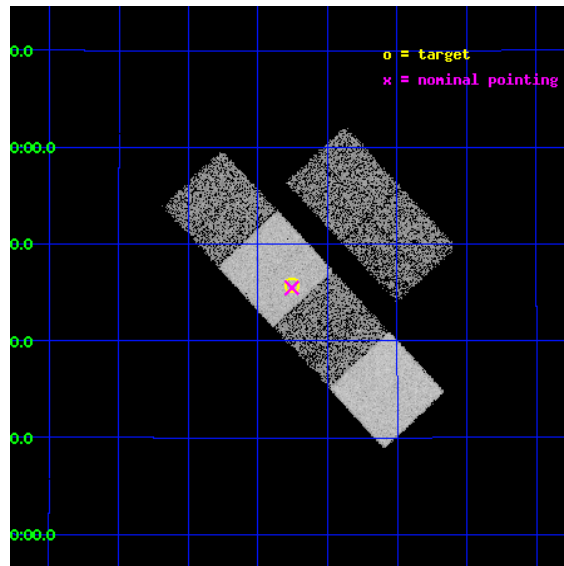
L2 Processing Date : Apr 24 2012

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1 Front

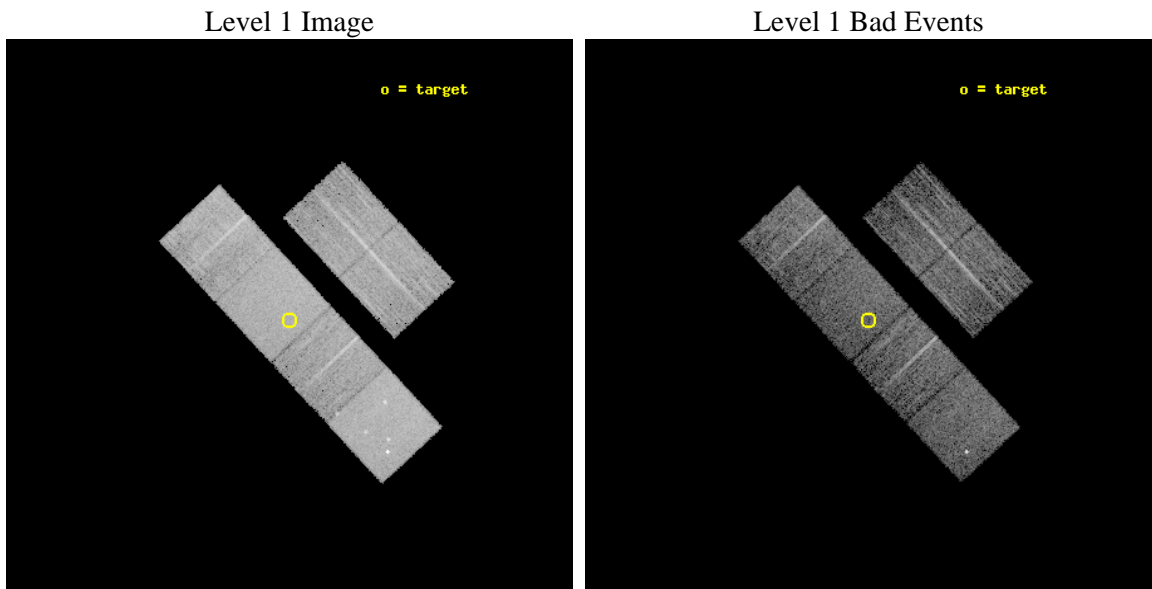
seq_num	701529	Sequence number
obs_id	7865	Observation id
title	Demographics of black holes in the local Universe.	Proposal title
observer	Prof. Smita Mathur	Principal investigator
object	NGC 4689	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	191.94	Observer's specified target RA [deg]
dec_targ	13.762806	Observer's specified target Dec [deg]
ra_nom	191.93905084529	Nominal RA [deg]
dec_nom	13.758078884776	Nominal Dec [deg]
roll_nom	227.06040371811	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4950.3999816179	Sum of GTIs [s]
livetime	4887.7150362777	Livetime [s]
ontime2	4947.1589813232	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	77807	Number of level 2 events



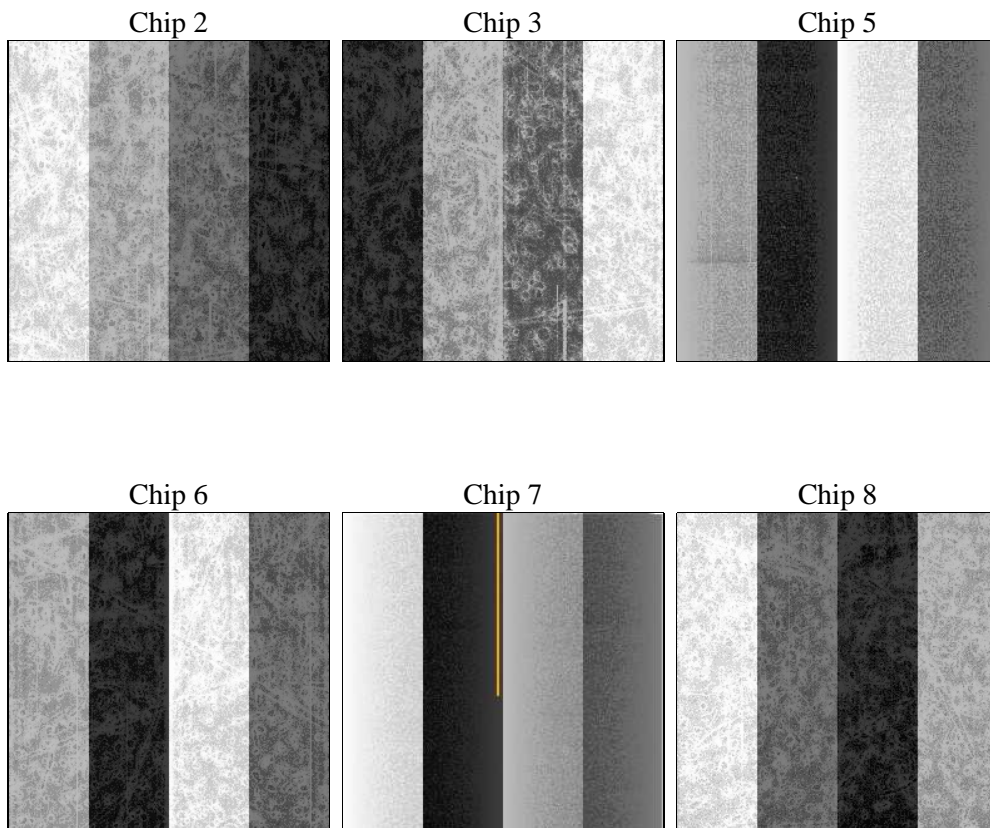
2 OBI

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]
caldsver	4.4.9	 	ontime2	4947.1589813232	Sum of GTIs [s]
date	2012-04-24T09:22:41	Date and time of file creation	ontime3	4950.3999816179	Sum of GTIs [s]
revision	3	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	348133	Number of level 1 events

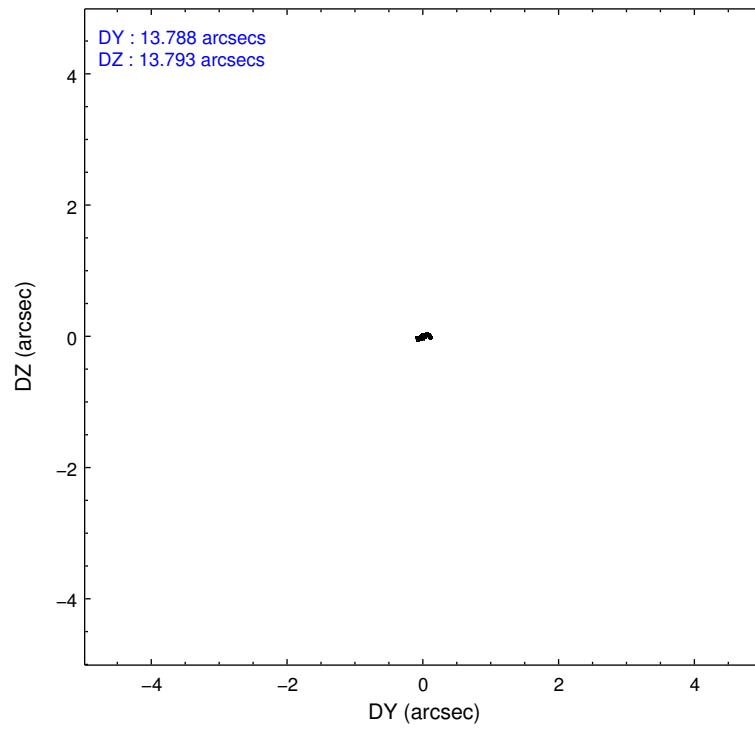
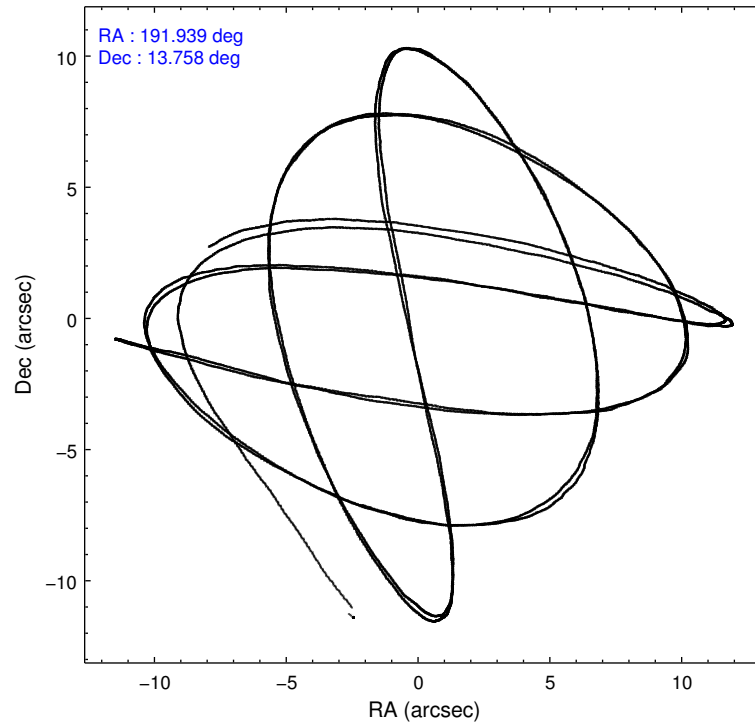
2.1.4 Events

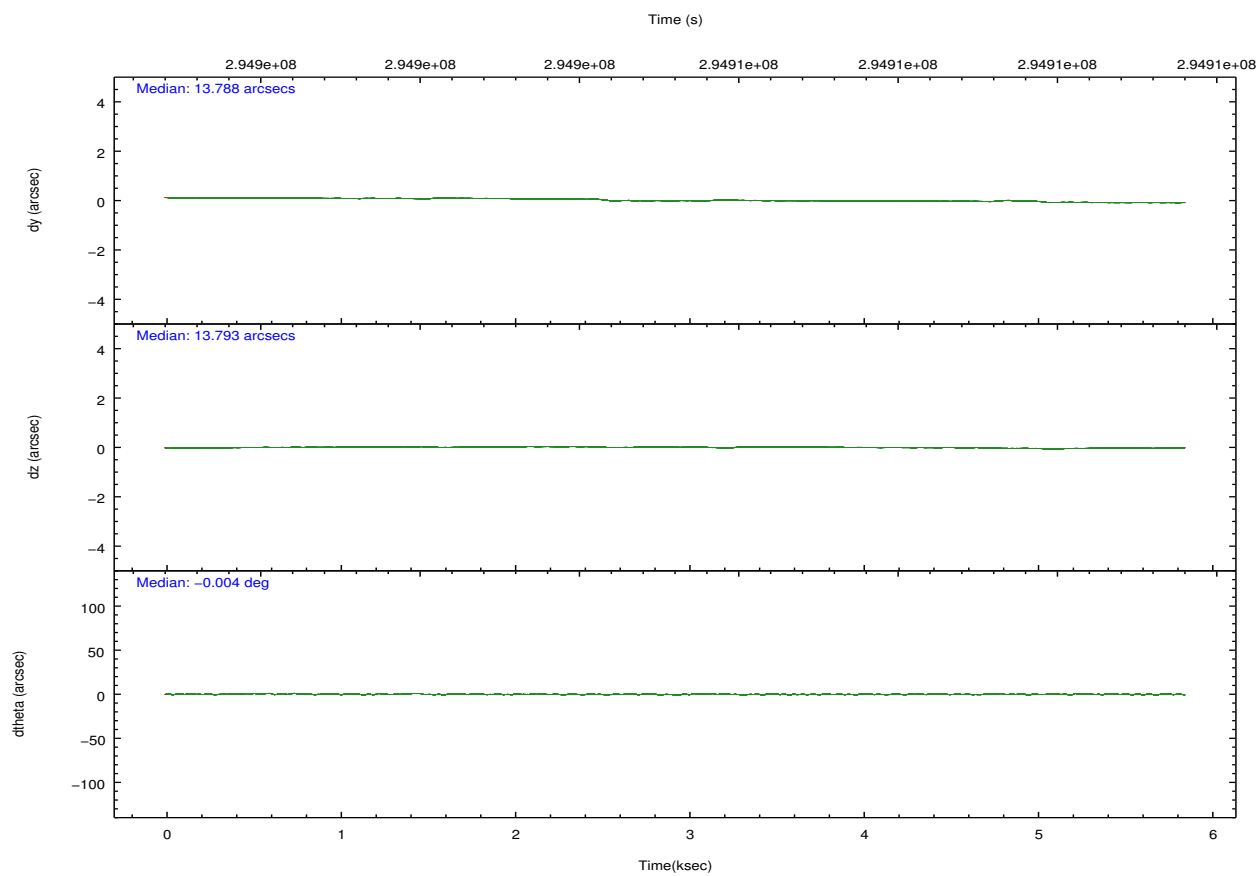
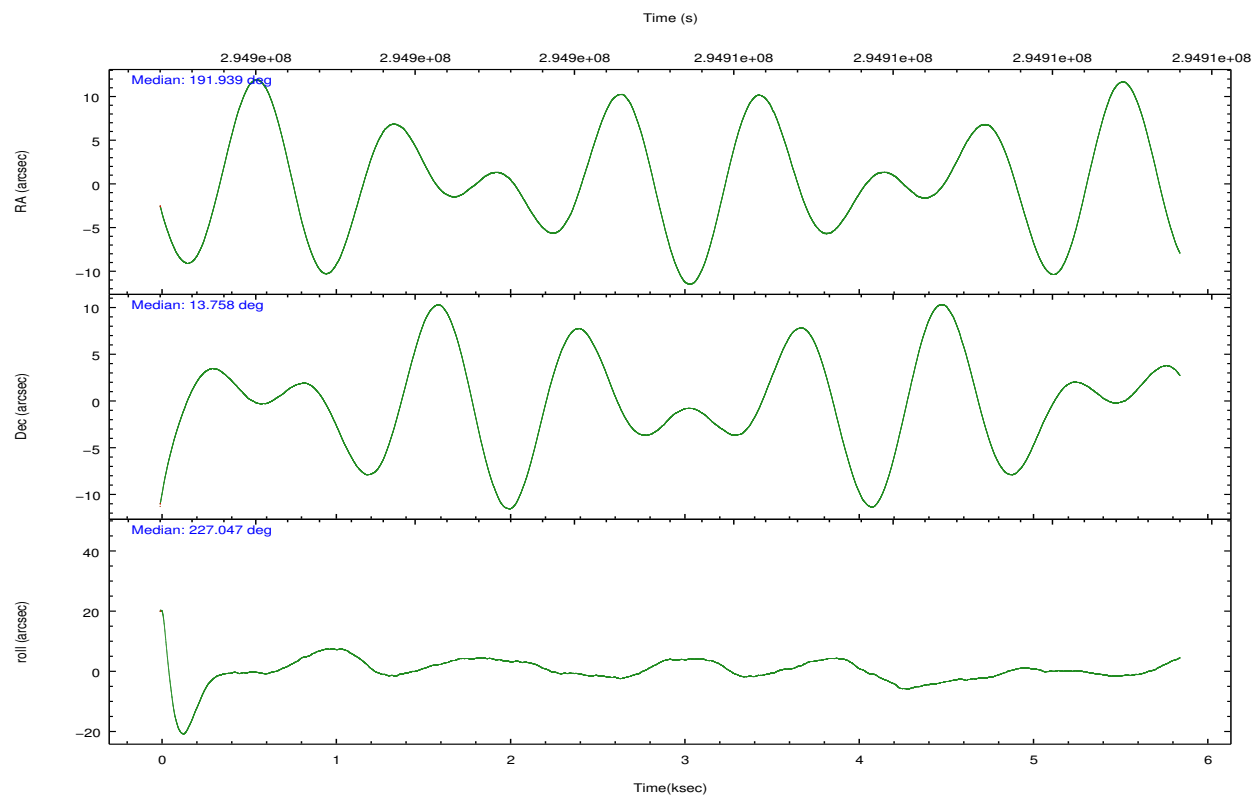
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51504	46494	74235	47369	65752	62779	grade 0 events	2373	2329	3359	2202	2356	4171
rejected events	45912	41011	40327	41628	38808	48612		4%	5%	4%	4%	3%	6%
rejected %	89%	88%	54%	87%	59%	77%	grade 1 events	16	39	135	26	69	53
								0%	0%	0%	0%	0%	0%
							grade 2 events	1201	1094	10260	1263	5411	3267
								2%	2%	13%	2%	8%	5%
							grade 3 events	548	581	1277	547	2251	1497
								1%	1%	1%	1%	3%	2%
							grade 4 events	529	527	1143	580	2308	1329
								1%	1%	1%	1%	3%	2%
							grade 5 events	1853	2167	5603	2194	6279	3005
								3%	4%	7%	4%	9%	4%
							grade 6 events	944	953	17885	1153	14636	3905
								1%	2%	24%	2%	22%	6%
							grade 7 events	44040	38804	34573	39404	32442	45552
								85%	83%	46%	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	191.944948	191.9390508452906	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.784780	13.75807888477614	Alternating exposures requested	N	N
[deg] Pointing Roll	226.902275	227.0604037181051	[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)	294903528.184000	294902236.16109			
Observation start date	2007-05-07T05:37:43	2007-05-07T05:17:16			
[s] Observation end time (MET)	294908528.184000	294908697.2489			
Observation end date	2007-05-07T07:01:03	2007-05-07T07:04:57			
Read mode	TIMED	TIMED			

2.3 Aspect



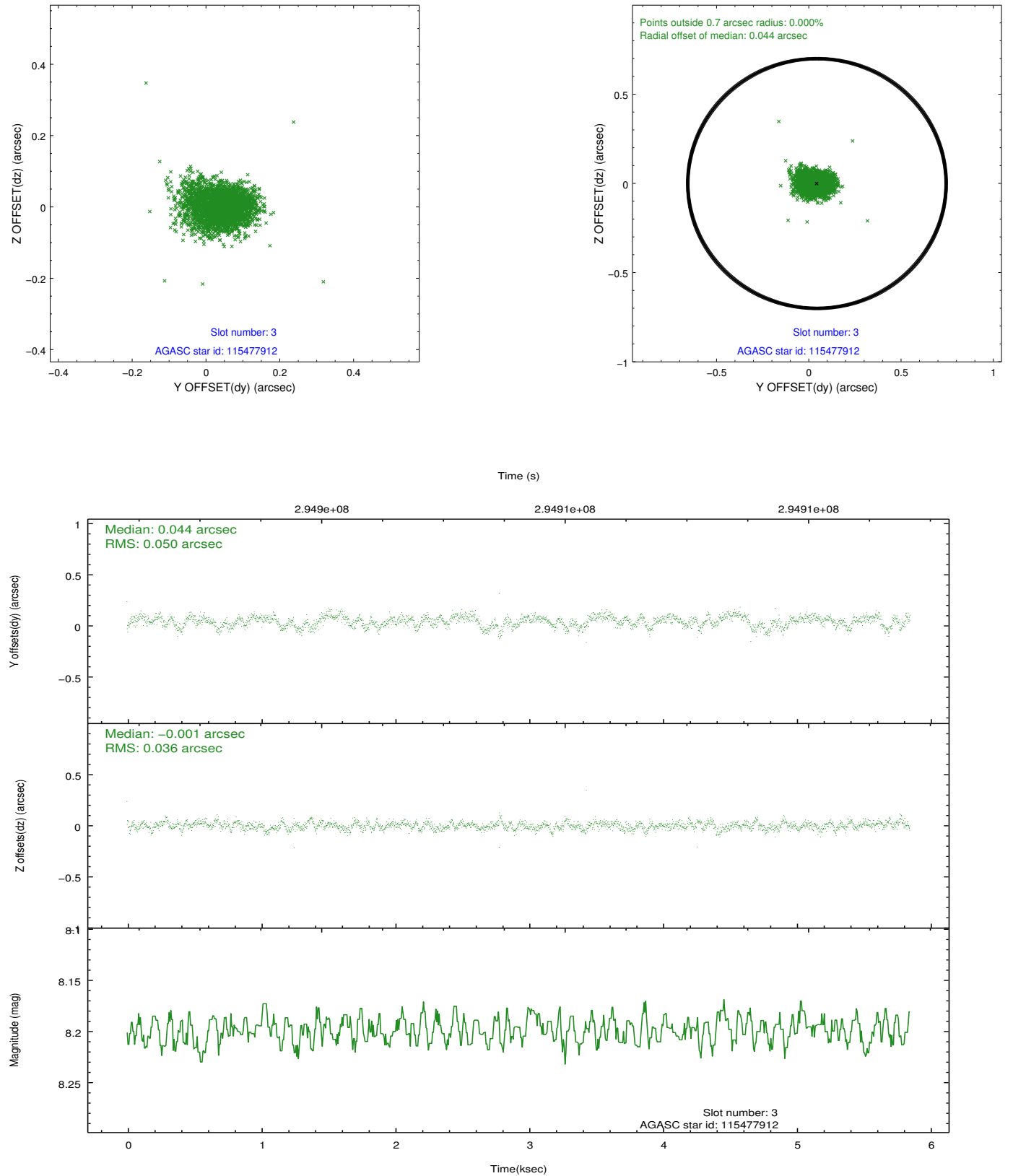


Slot Statistics

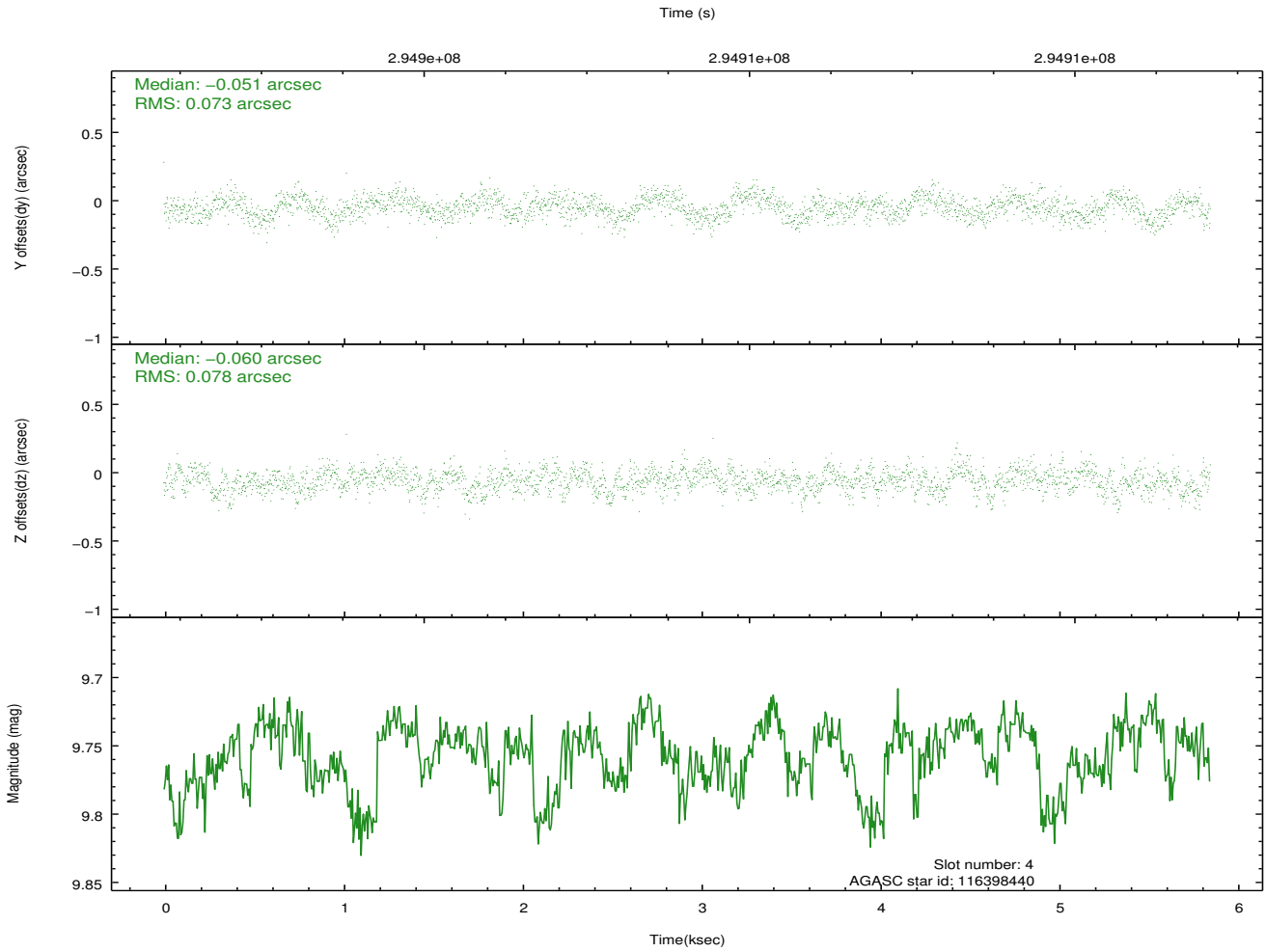
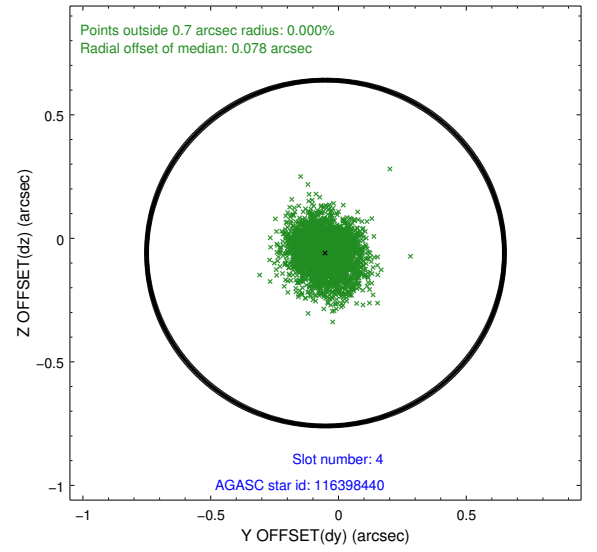
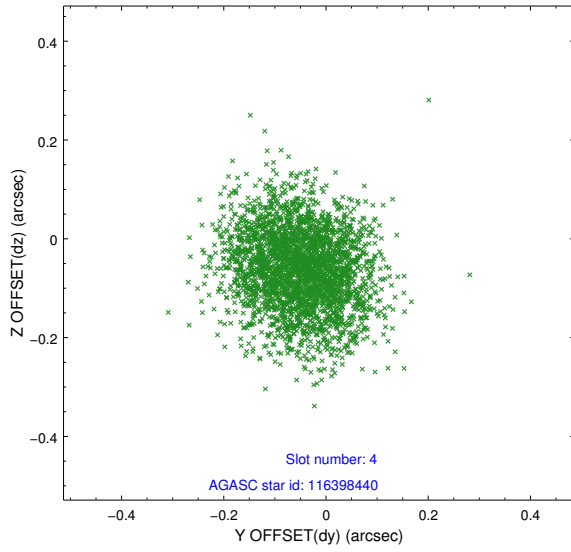
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1428	-0.052	-0.061	0.007	0.012	0.000000	0.000000	-766.80	-1735.14
1	FID	ACIS-S-4	7.19	1427	0.195	0.042	0.007	0.011	0.000000	0.000000	2146.26	172.38
2	FID	ACIS-S-5	7.23	1428	-0.173	0.028	0.006	0.011	0.000000	0.000000	-1818.46	167.21
3	GUIDE	115477912	8.20	2855	0.044	-0.001	0.063	0.106	191.480423	13.583124	1640.38	-691.91
4	GUIDE	116398440	9.76	2848	-0.051	-0.060	0.114	0.181	191.679306	13.963467	165.66	-1118.14
5	GUIDE	116398936	7.89	2855	0.043	0.022	0.066	0.105	191.963147	13.423898	905.50	934.13
6	GUIDE	116400912	6.95	2854	-0.014	0.019	0.071	0.115	192.059732	13.553026	335.66	863.58
7	GUIDE	116396600	7.51	2853	-0.019	0.013	0.059	0.093	192.200343	13.323834	600.36	1787.07

2.4 Star Slots

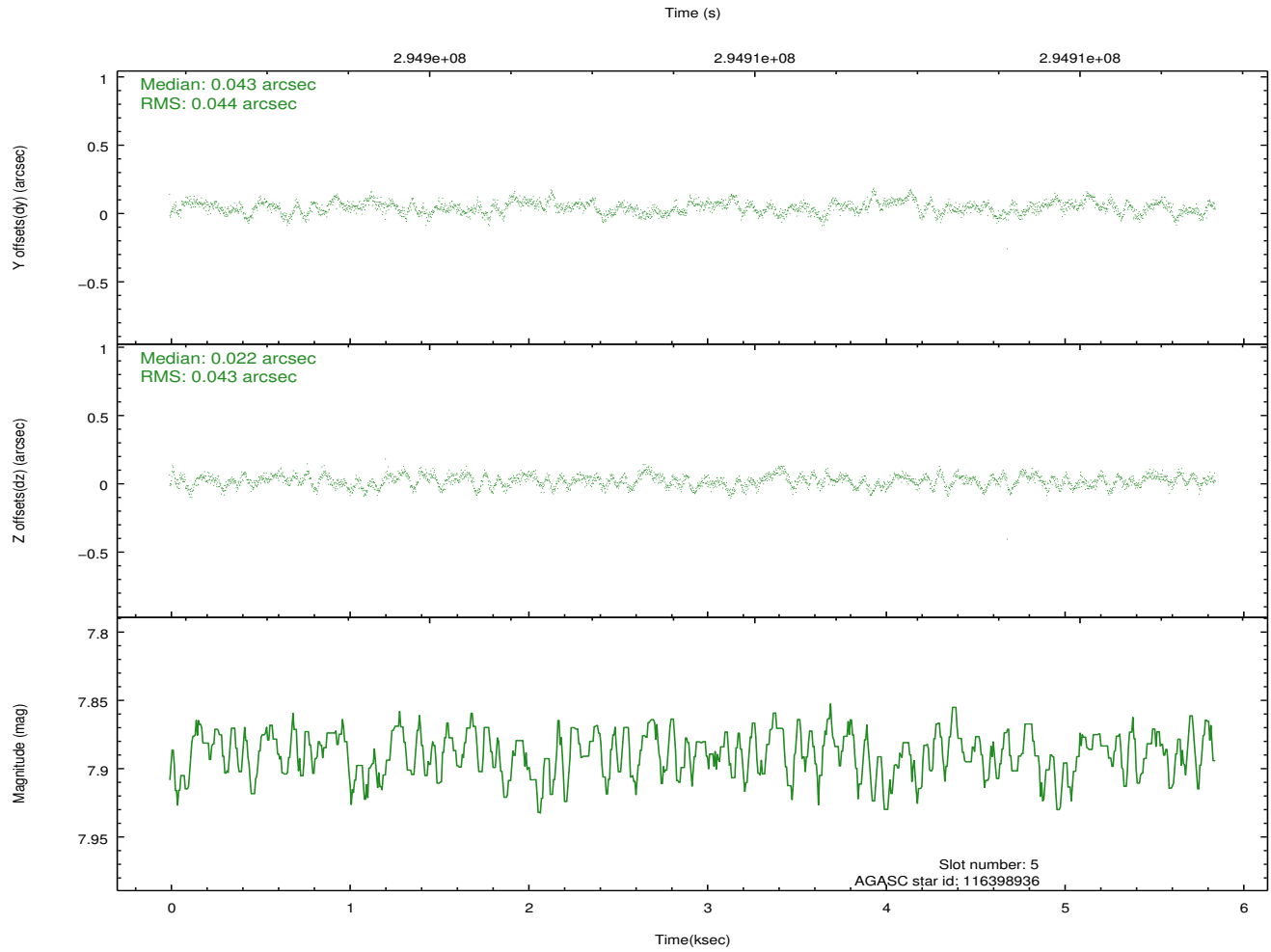
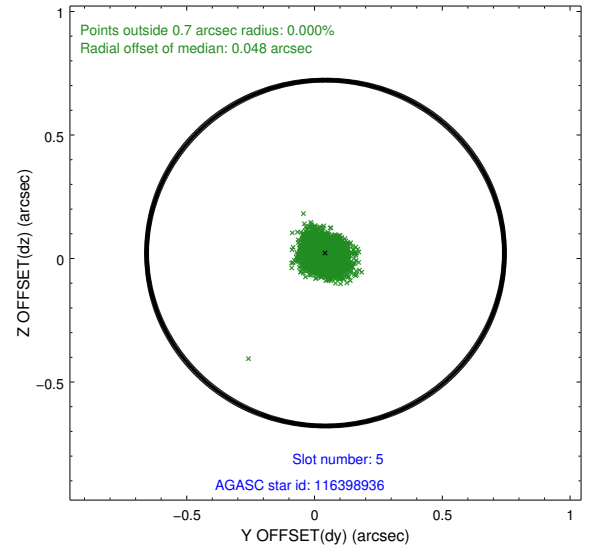
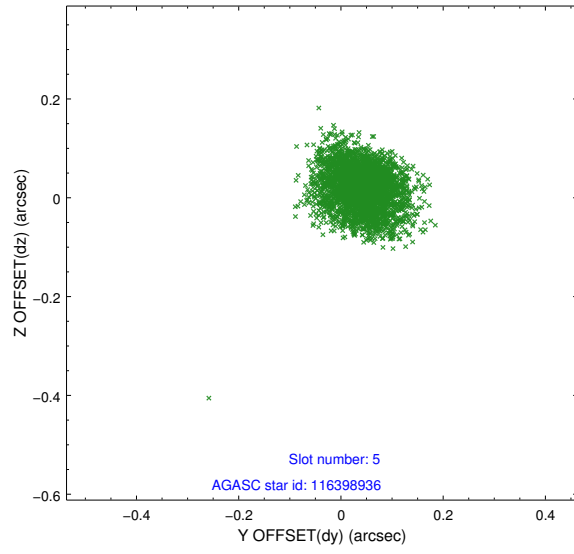
2.4.1 Slot 3



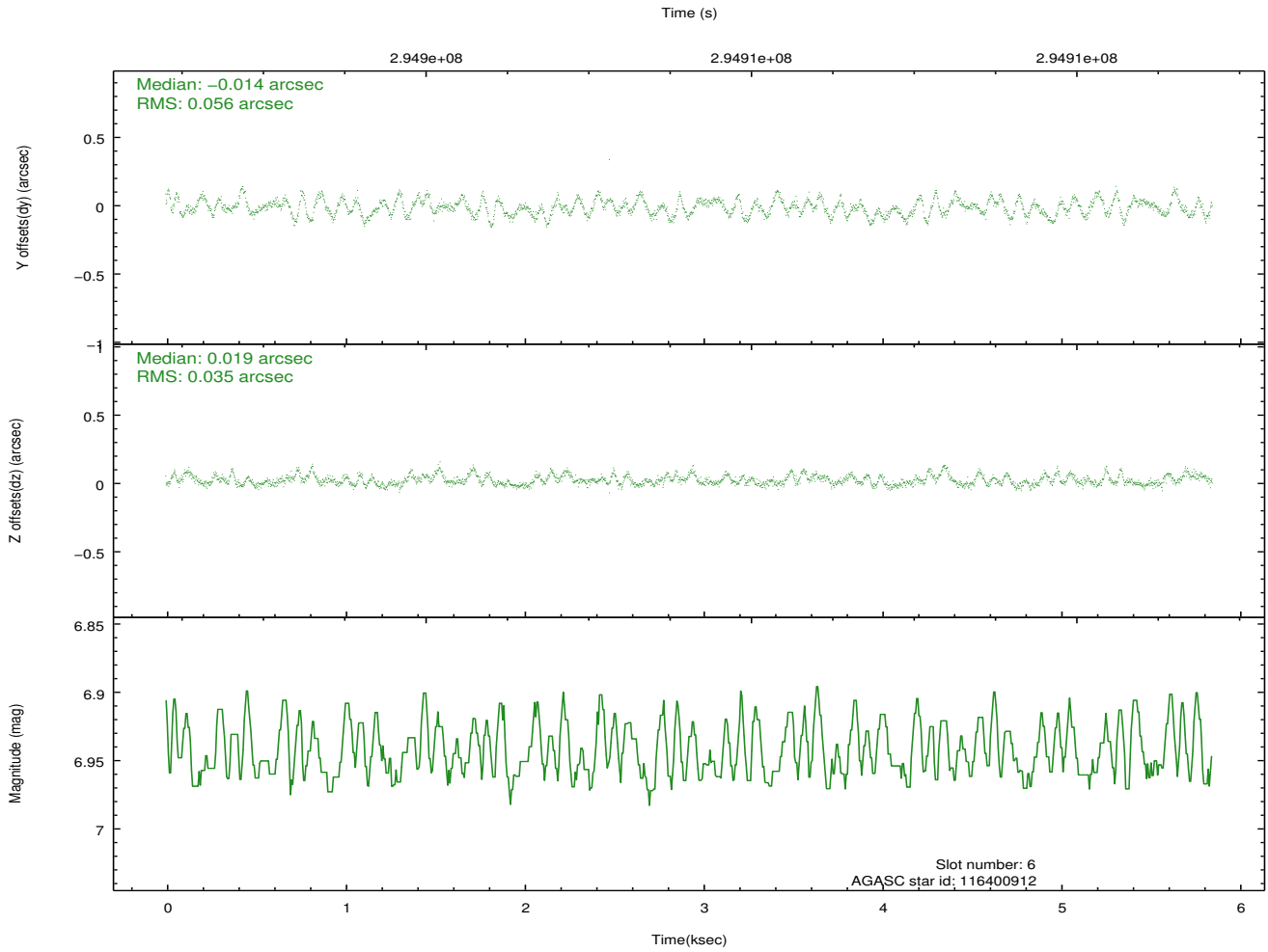
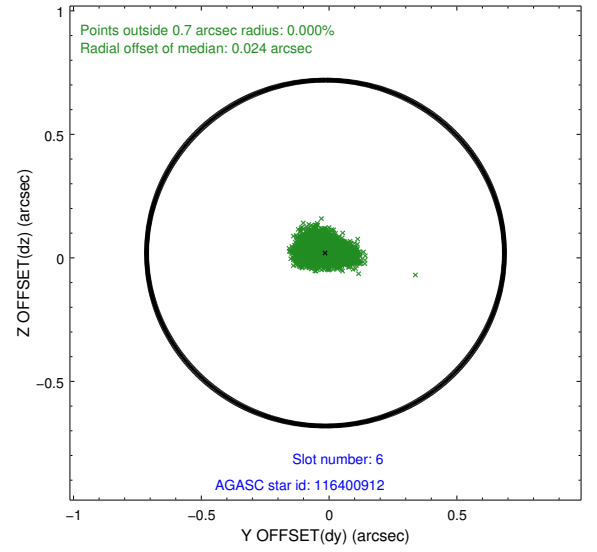
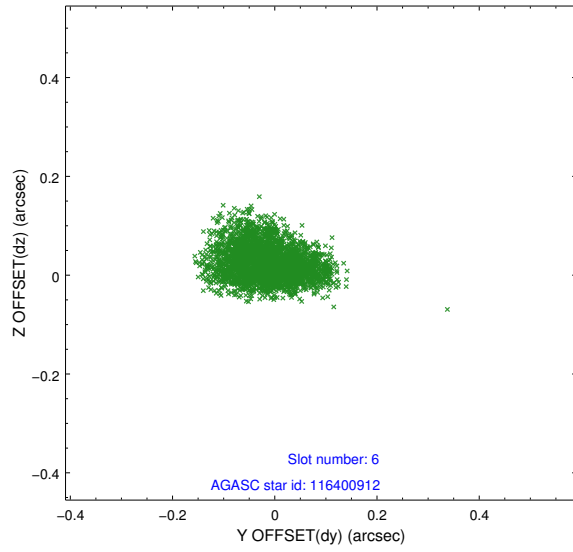
2.4.2 Slot 4



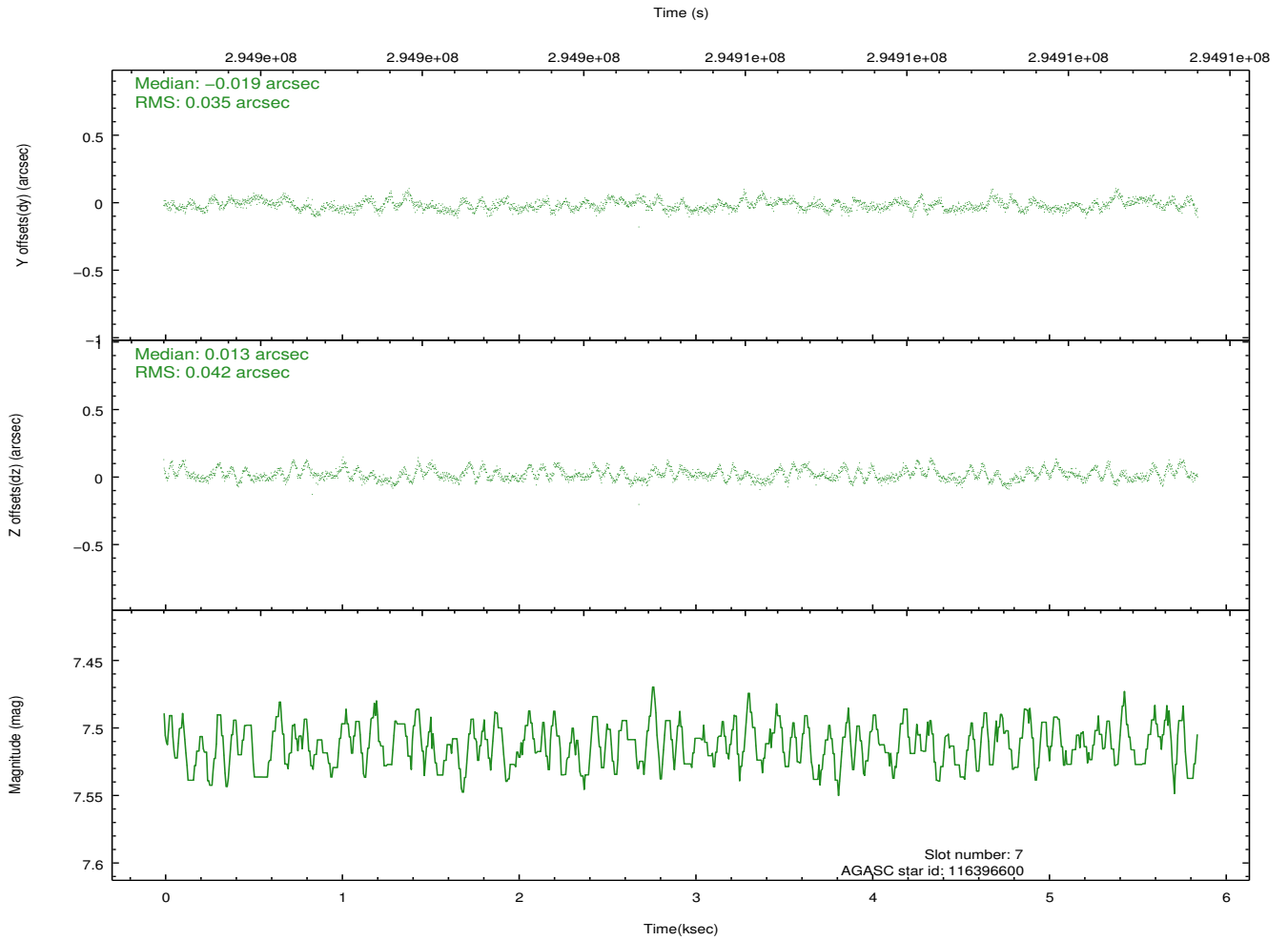
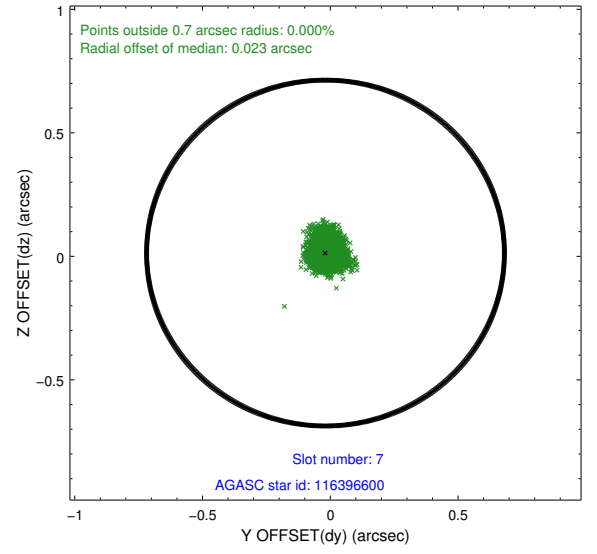
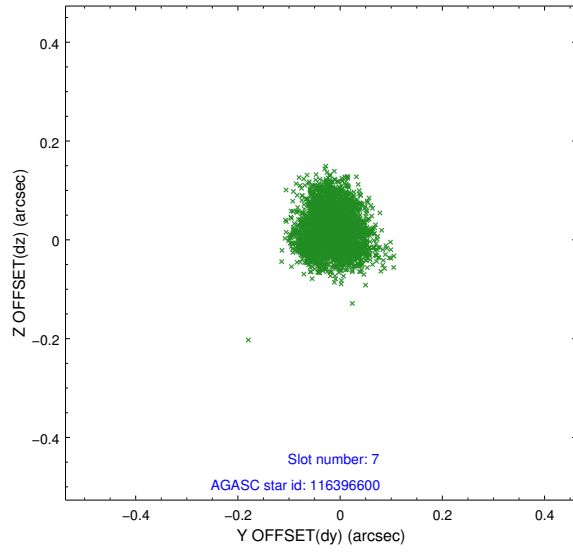
2.4.3 Slot 5



2.4.4 Slot 6

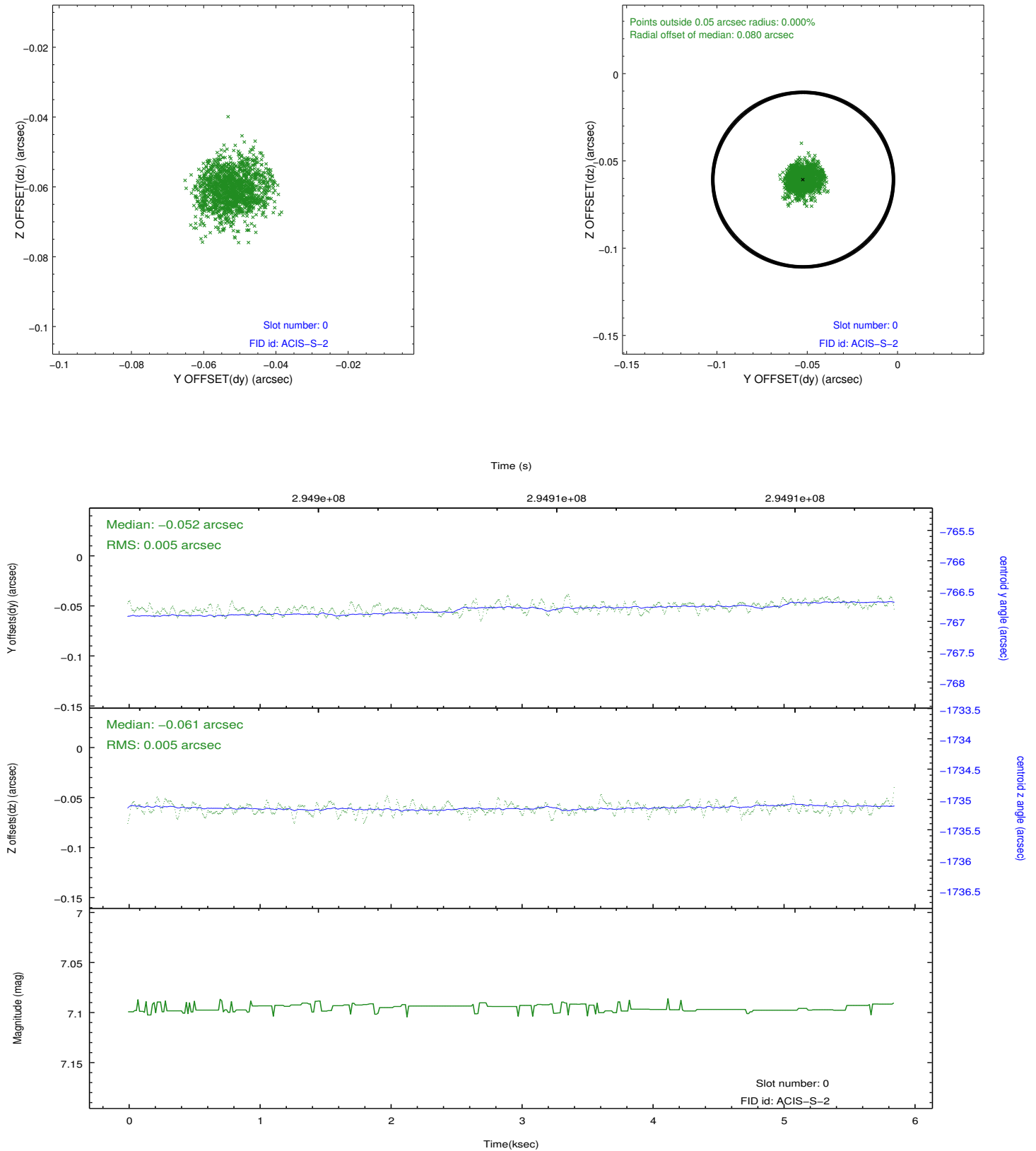


2.4.5 Slot 7

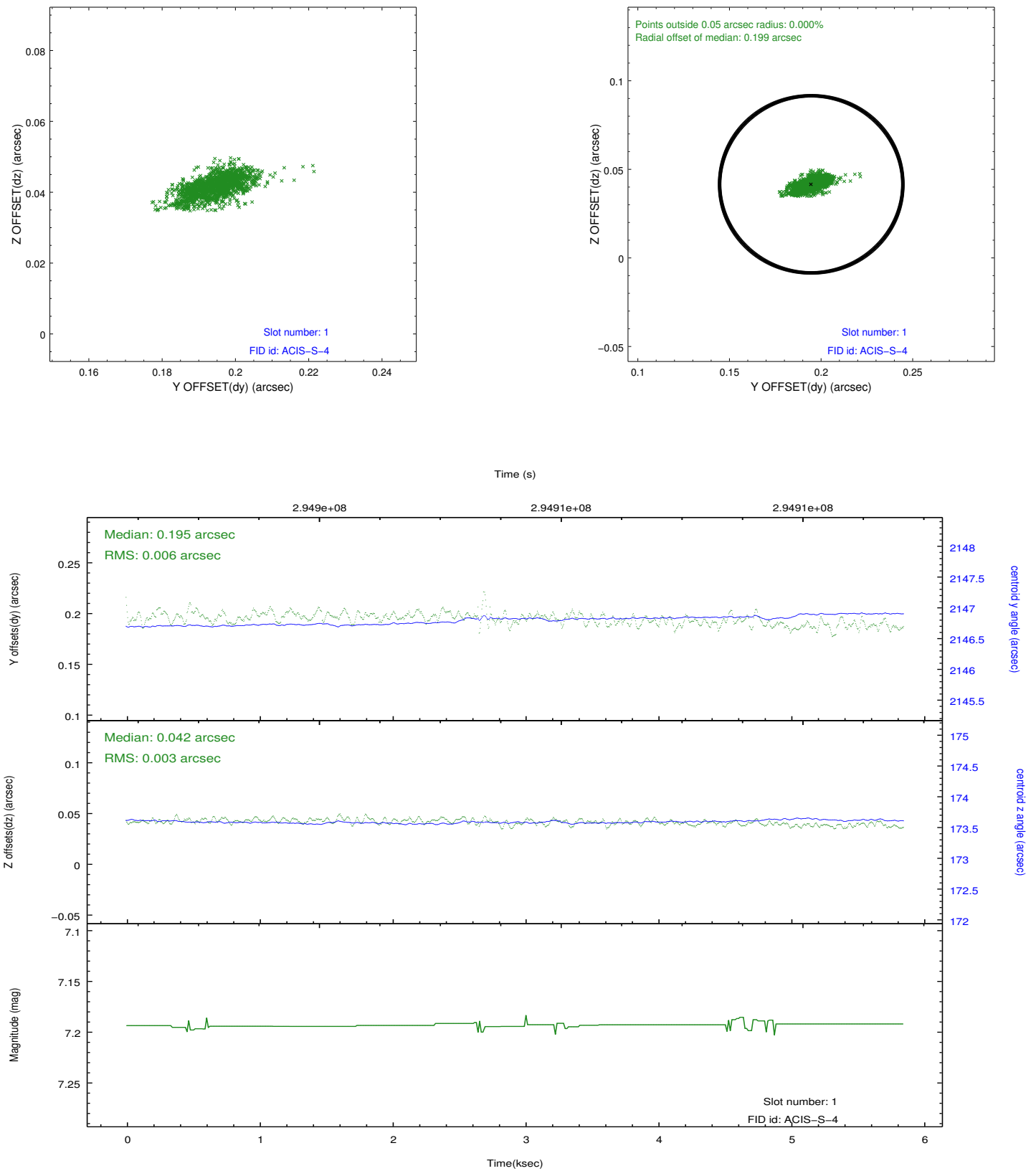


2.5 FID Slots

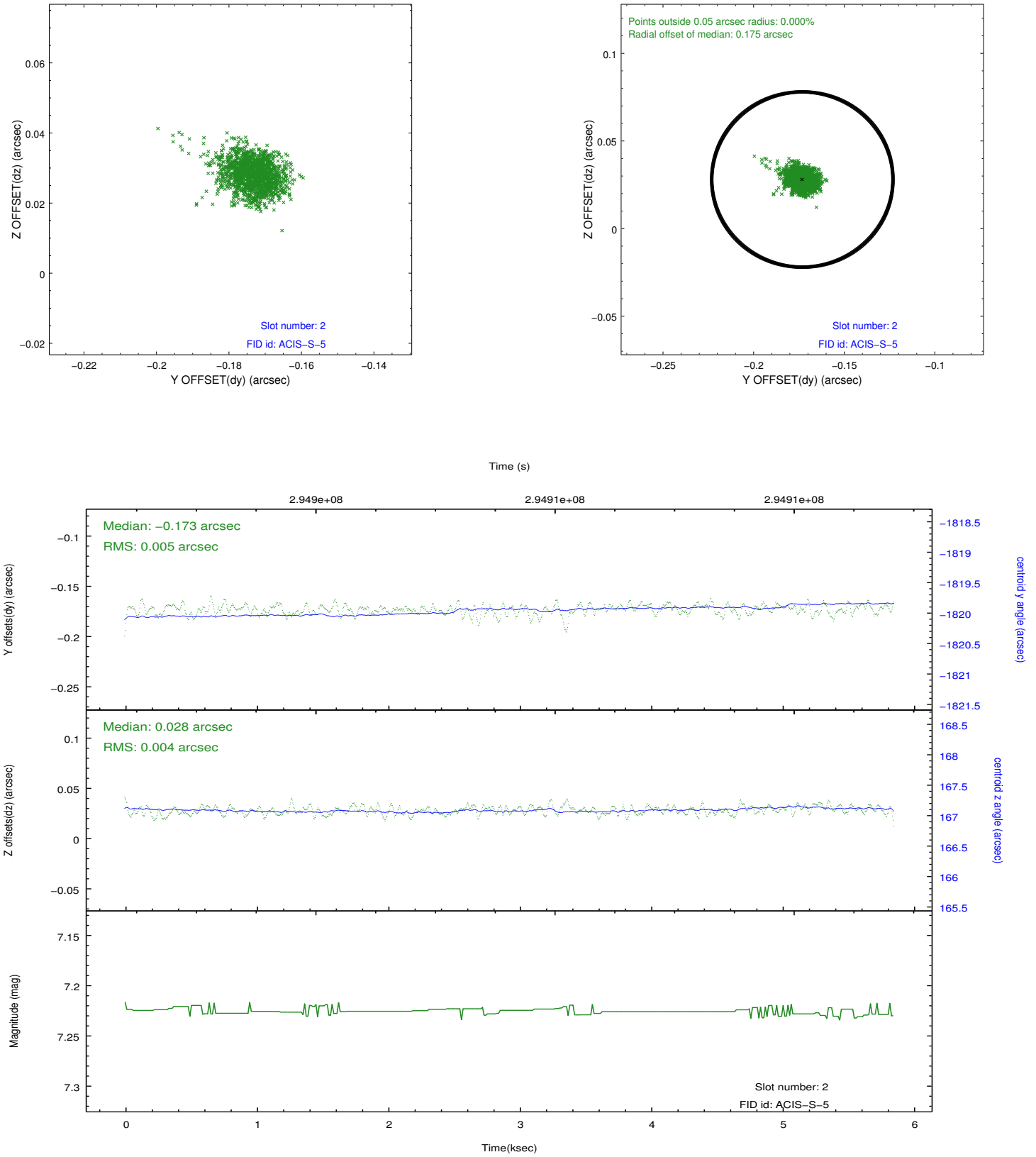
2.5.1 Slot 0



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)	2012.04.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.95039998

A.2 Comments