

V&V Reference Report

L2 ASCDS Version : 7.6.11

Observation 906 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Jul 13 2007

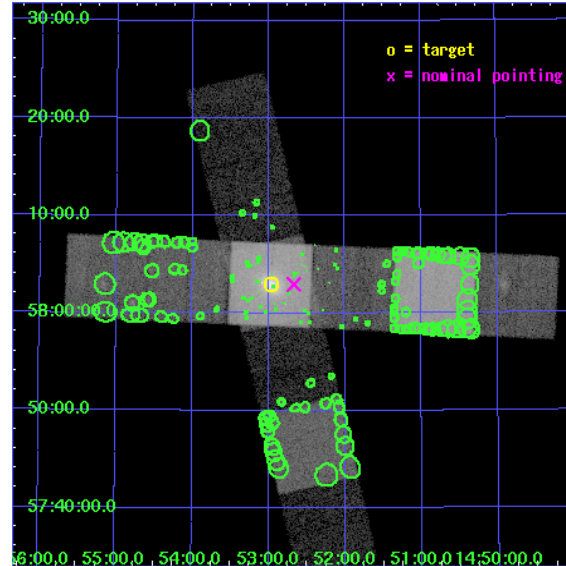
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1 Front

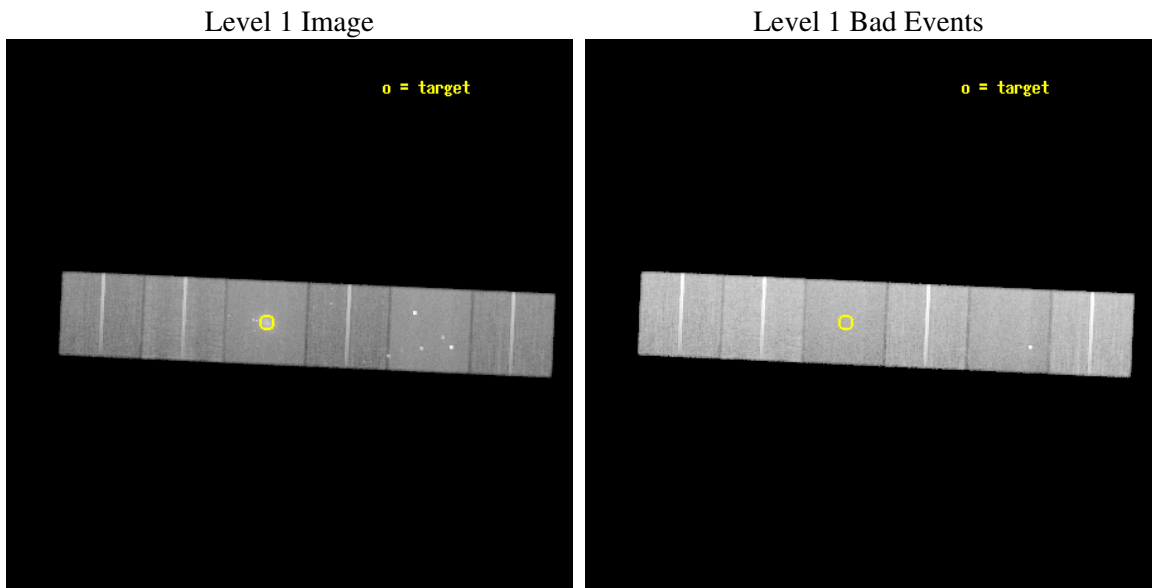
seq_num	800082
obs_id	906
title	GALAXY CLUSTERS AS COSMOLOGICAL PROBES: DEEP X-RAY AND S-Z EFFECT IMAGING OF A1995 AND A611
observer	DR MARSHALL JOY
object	ABELL 1995
dtcycle	0
cycle	P
ra_targ	223.239583
dec_targ	58.048667
ra_nom	223.167189
dec_nom	58.049324
roll_nom	182.567302
revision	5
ontime	58228.315786362
livetime	57490.993790992
ontime4	58046.80553101
ontime5	58231.515676677
ontime6	58066.251691252
ontime7	58228.315786362
ontime8	58043.564670473
ontime9	58050.070244119
l2events	607051



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-29T20:49:43
revision	4

sched_exp_time	48000.000000
ontime	46145.115775108
ontime4	45963.605519757
ontime5	46148.315665424
ontime6	45983.051679999
ontime7	46145.115775108
ontime8	45960.36465922
ontime9	45966.870232865
l1events	2218959

2.1.3 Events

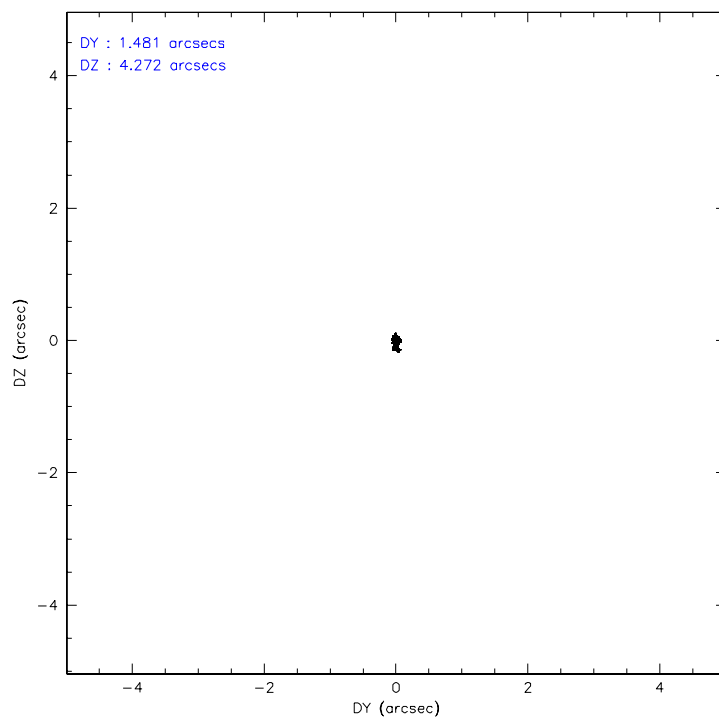
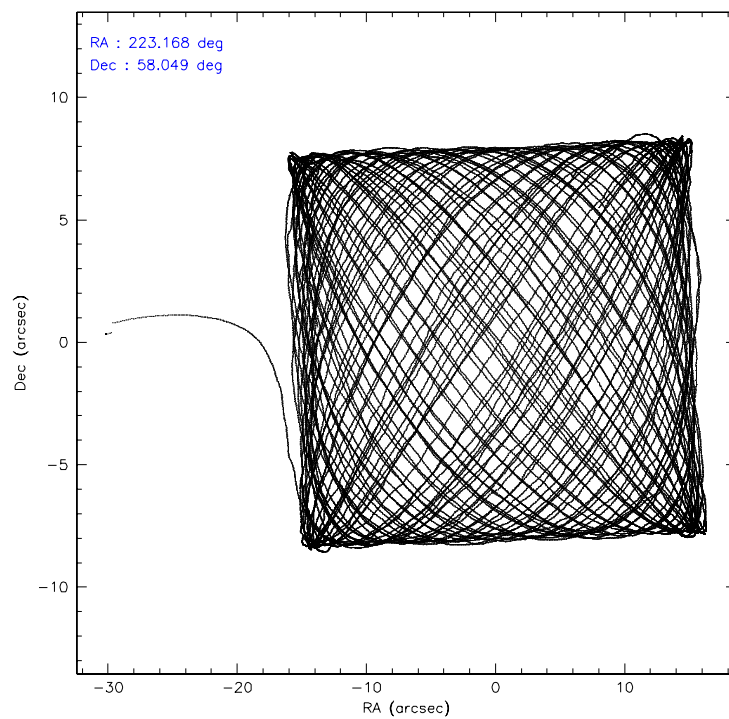
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	355923	425950	318546	409254	395567	313719
rejected events	319195	221903	283078	215728	319899	277455
rejected %	89%	52%	88%	52%	80%	88%

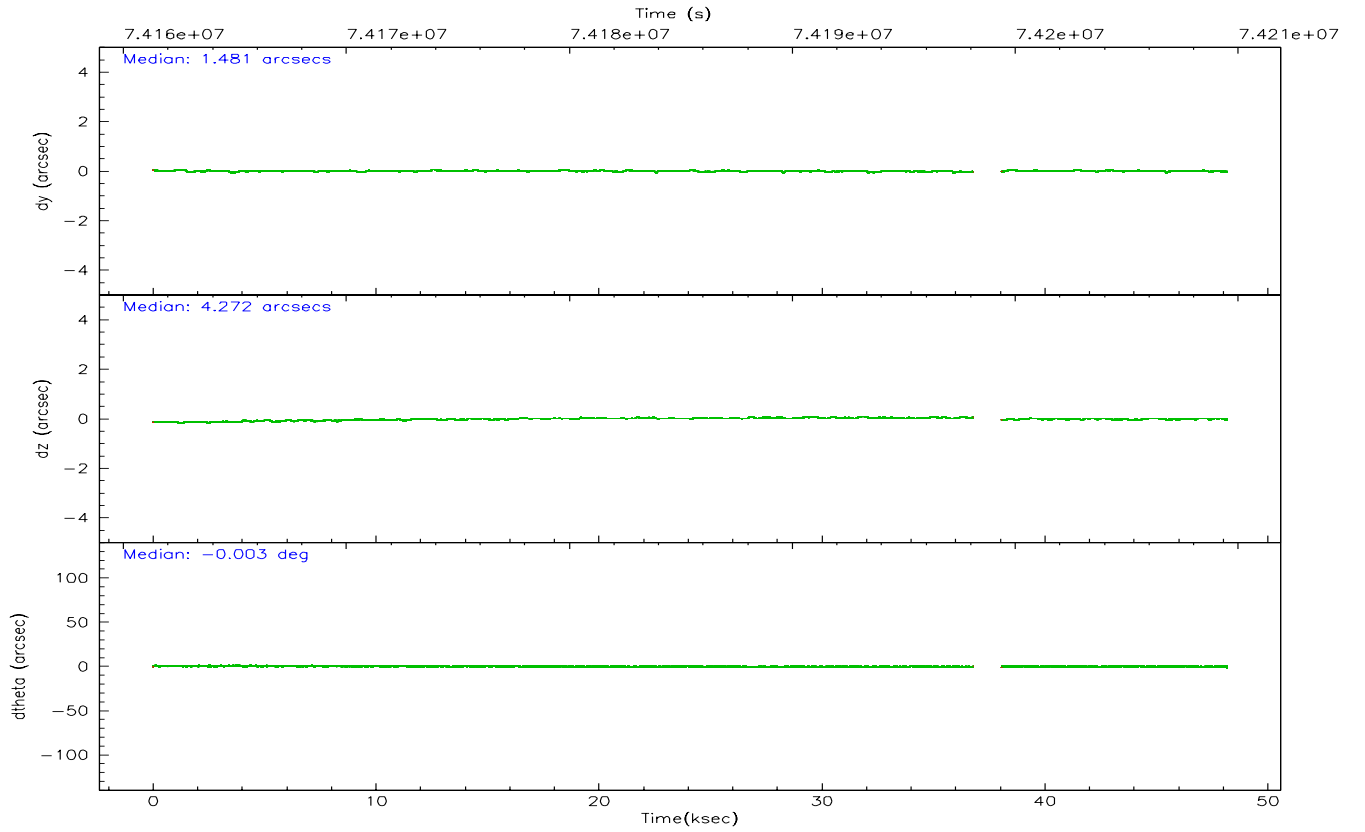
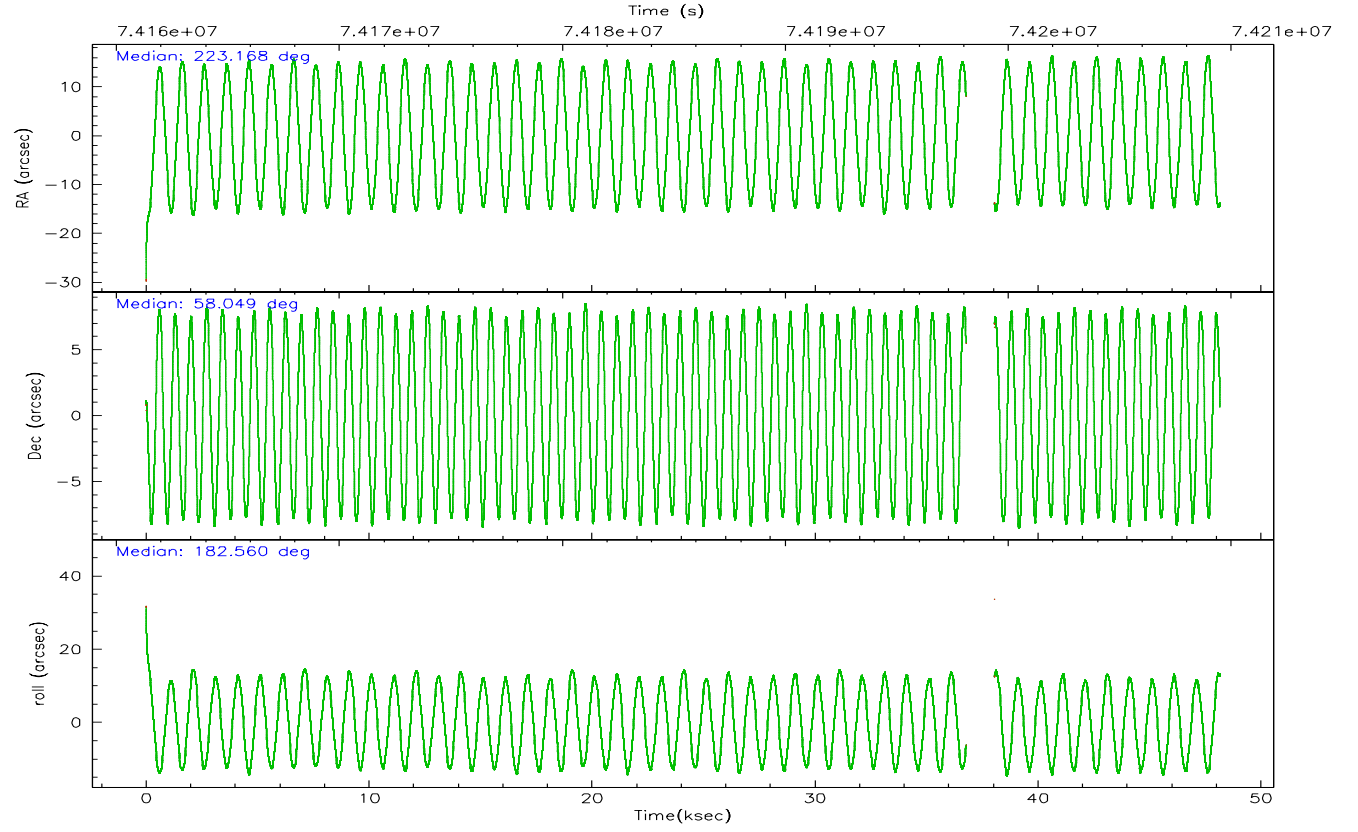
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	15734	30511	15285	28871	24389	15720
	4%	7%	4%	7%	6%	5%
grade 1 events	149	450	153	355	232	132
	0%	0%	0%	0%	0%	0%
grade 2 events	8413	58273	6796	40039	15839	7023
	2%	13%	2%	9%	4%	2%
grade 3 events	3381	9115	3501	18508	8389	3567
	0%	2%	1%	4%	2%	1%
grade 4 events	3379	8708	3444	18392	7811	3442
	0%	2%	1%	4%	1%	1%
grade 5 events	10128	33216	11764	35797	14755	11966
	2%	7%	3%	8%	3%	3%
grade 6 events	5852	98034	6475	88151	19332	6548
	1%	23%	2%	21%	4%	2%
grade 7 events	308887	187643	271128	179141	304820	265321
	86%	44%	85%	43%	77%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	223.239583	223.1683018649624	Alternating exposures requested	N	N
Pointing Dec	58.048667	58.04891611831999	Primary exposure time	0.000000	0.000000
Pointing Roll	182.372705	182.5663572590362			
SIM focus pos (mm)	-0.684267	-0.684267			
SIM defocus (mm)	0	0			
SIM translation stage pos (mm)	-190.132523	-190.132523			
SIM translation stage offset (mm)	0	0			
Observation start time	74161323.71887073	74161323.71887073			
Observation start date	2000-05-08T08:23:50	2000-05-08T08:22:03			
Observation end time	74209504.87064095	74209504.87064095			
Observation end date	2000-05-08T21:43:50	2000-05-08T21:45:04			
Read mode	TIMED	TIMED			

2.3 Aspect



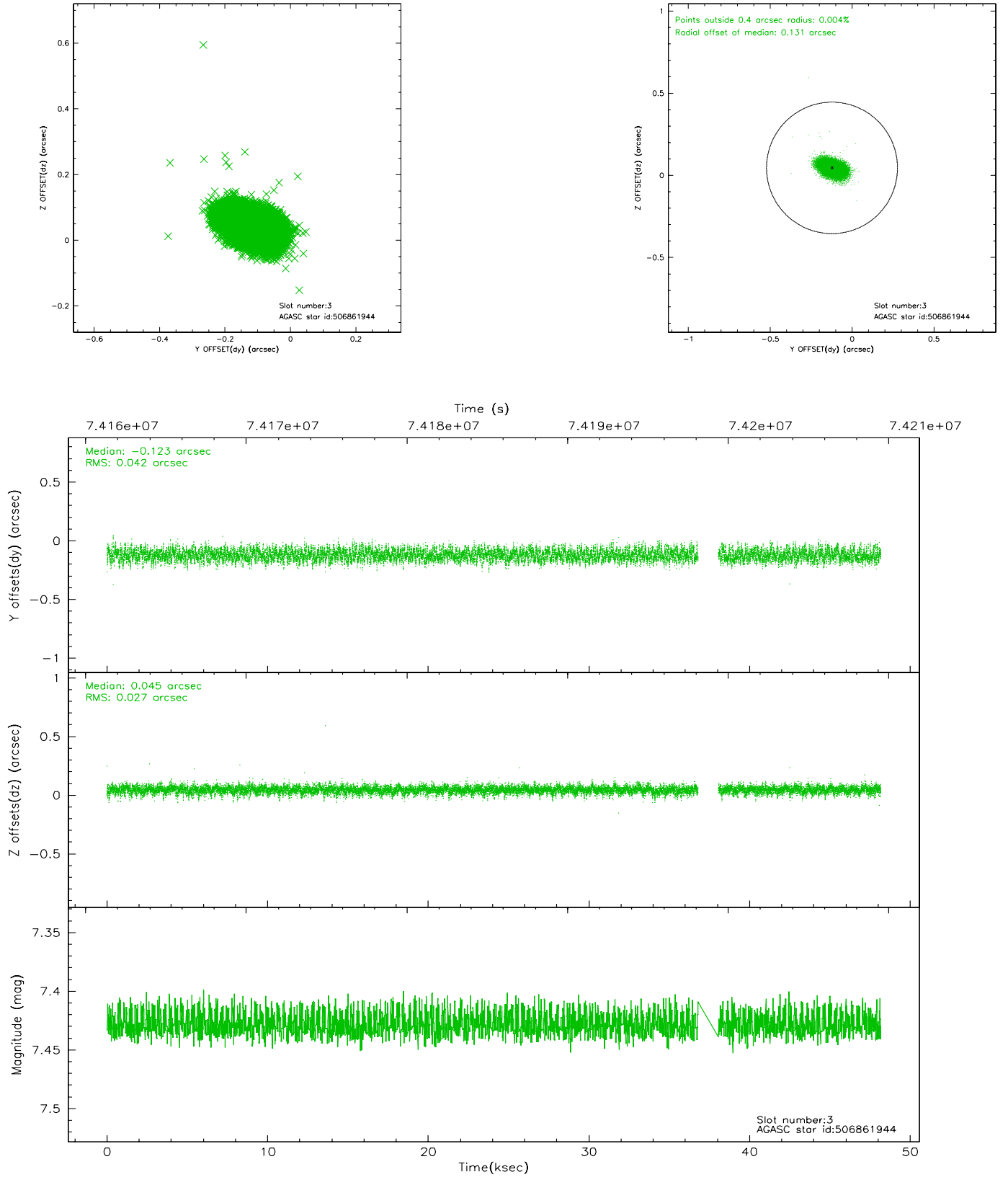


Slot Statistics

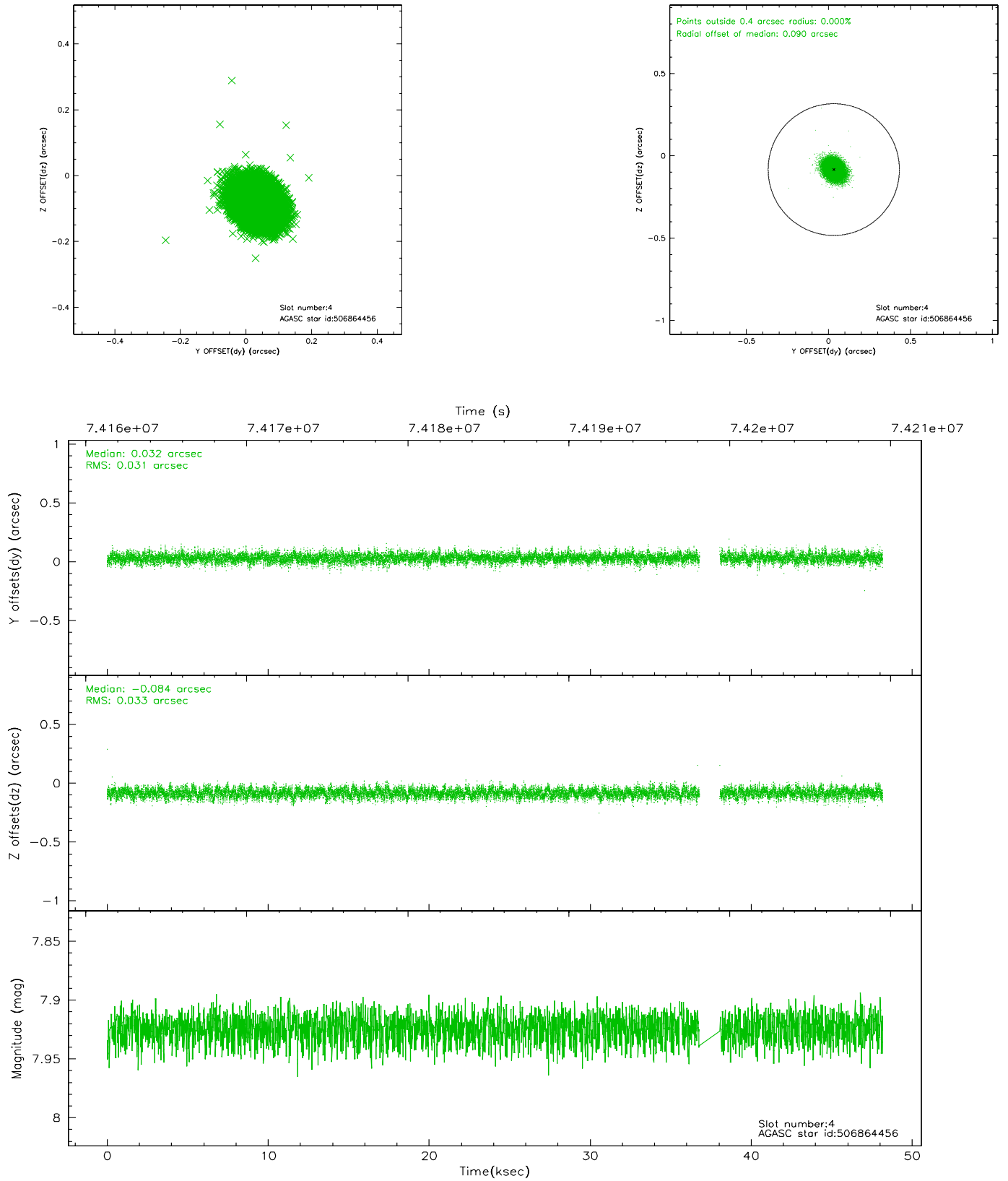
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	11438	-0.009	0.009	0.007	0.011	0.000000	0.000000	-754.11	-1725.33
1	FID	ACIS-S-4	7.21	11438	-0.044	0.002	0.005	0.009	0.000000	0.000000	2159.16	183.12
2	FID	ACIS-S-5	7.24	11438	0.022	-0.002	0.006	0.010	0.000000	0.000000	-1806.91	176.82
3	GUIDE	506861944	7.43	22874	-0.123	0.045	0.052	0.089	224.335957	57.649138	-2102.35	1562.76
4	GUIDE	506864456	7.92	22874	0.032	-0.084	0.048	0.078	222.497108	57.914314	1387.88	473.72
5	GUIDE	506866824	8.53	22869	-0.018	0.041	0.060	0.097	223.367760	58.198161	-315.06	-471.65
6	GUIDE	506866648	8.93	22866	0.091	0.042	0.059	0.098	222.617544	58.105639	1123.53	-202.42
7	GUIDE	506865200	9.53	22854	0.016	-0.042	0.075	0.123	222.823047	58.395128	684.04	-1224.51

2.4 Star Slots

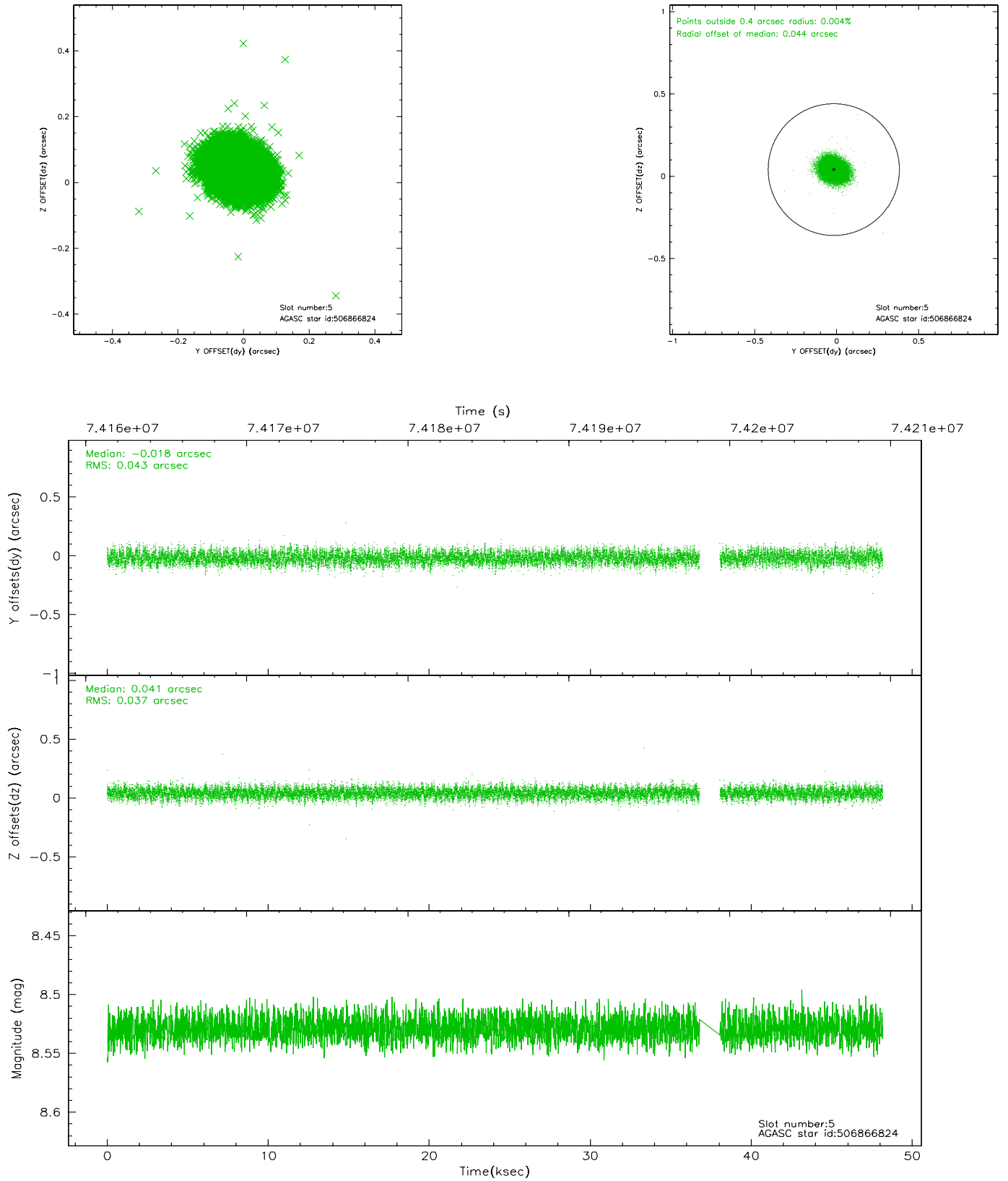
2.4.1 Slot 3



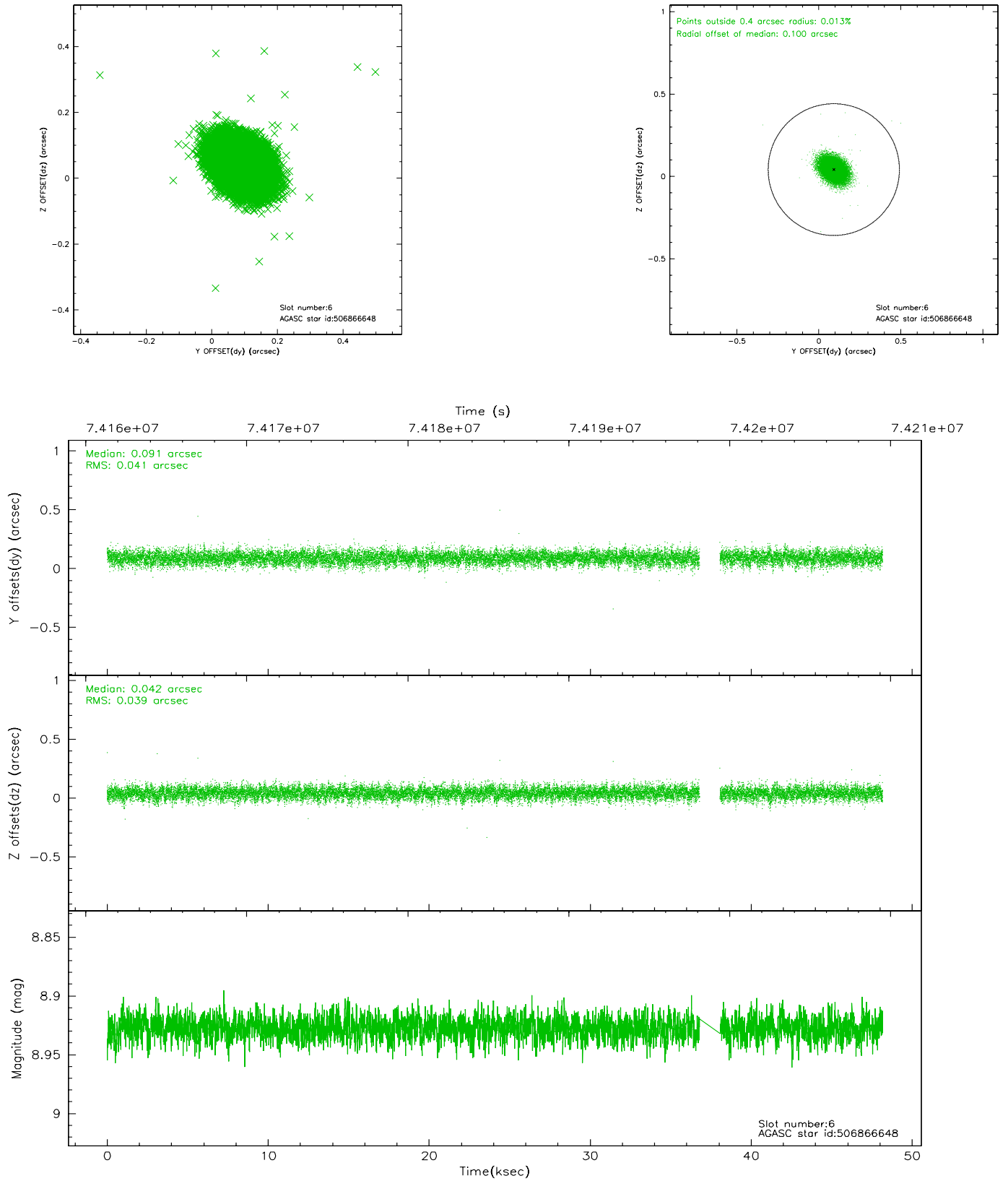
2.4.2 Slot 4



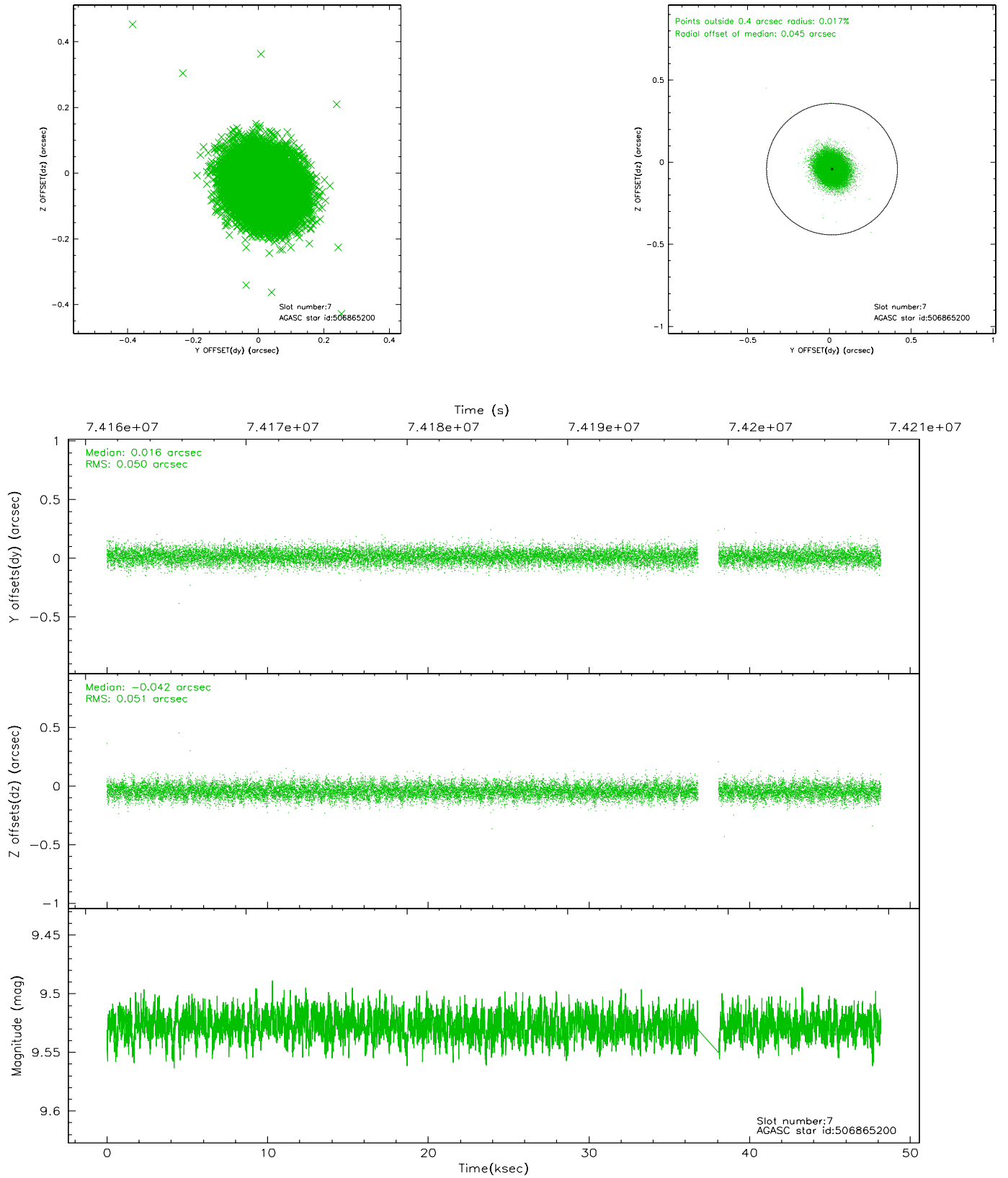
2.4.3 Slot 5



2.4.4 Slot 6

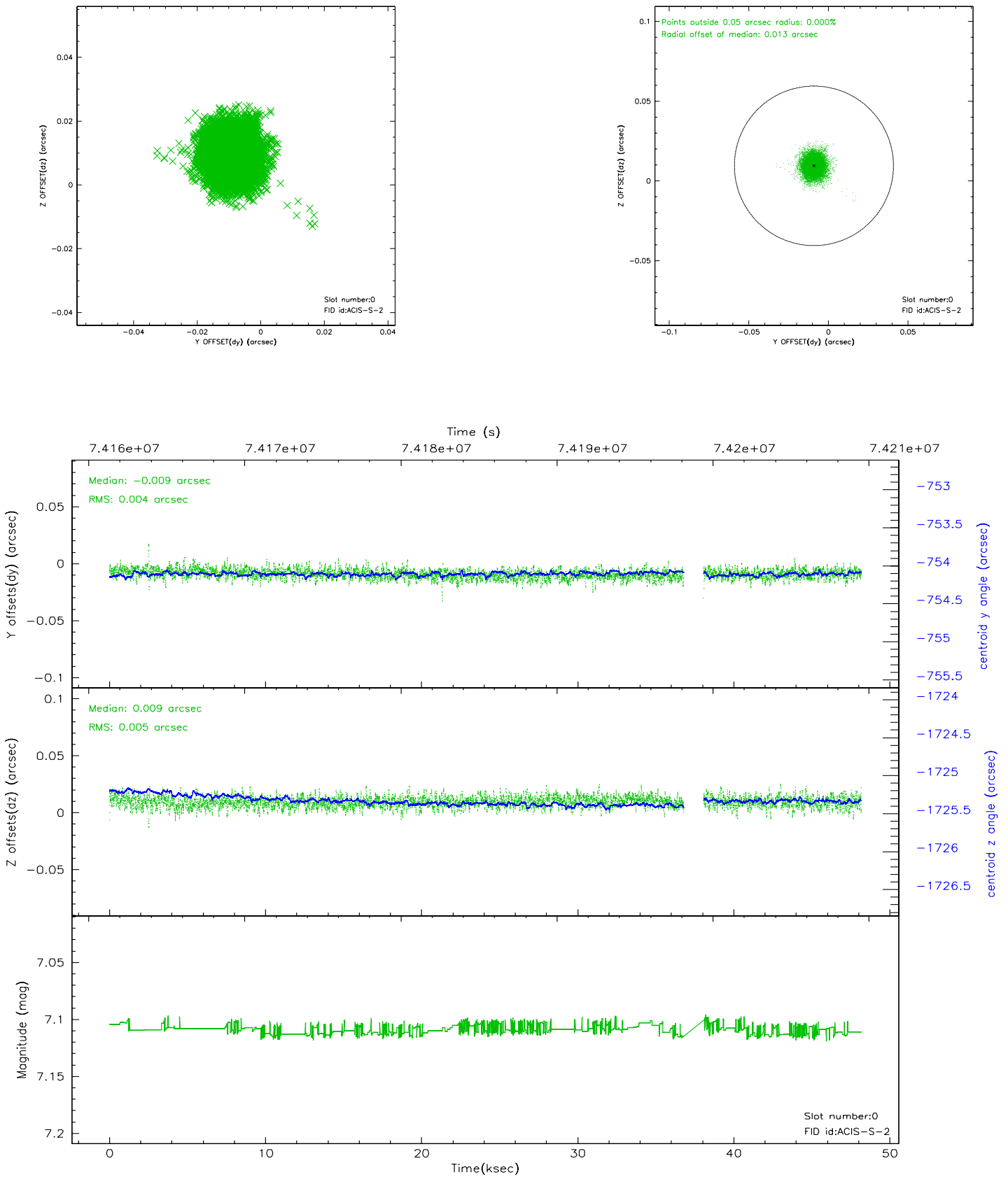


2.4.5 Slot 7

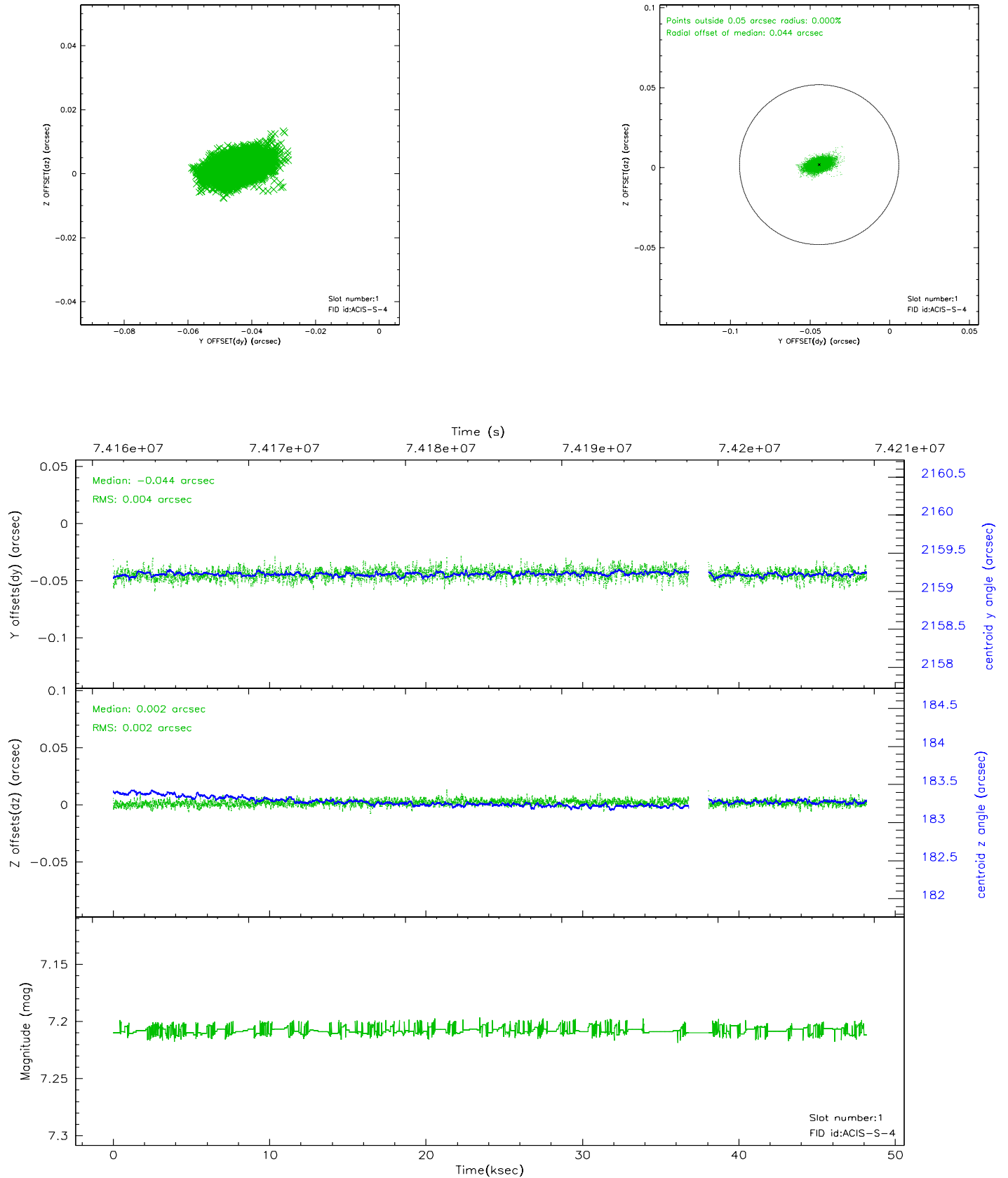


2.5 FID Slots

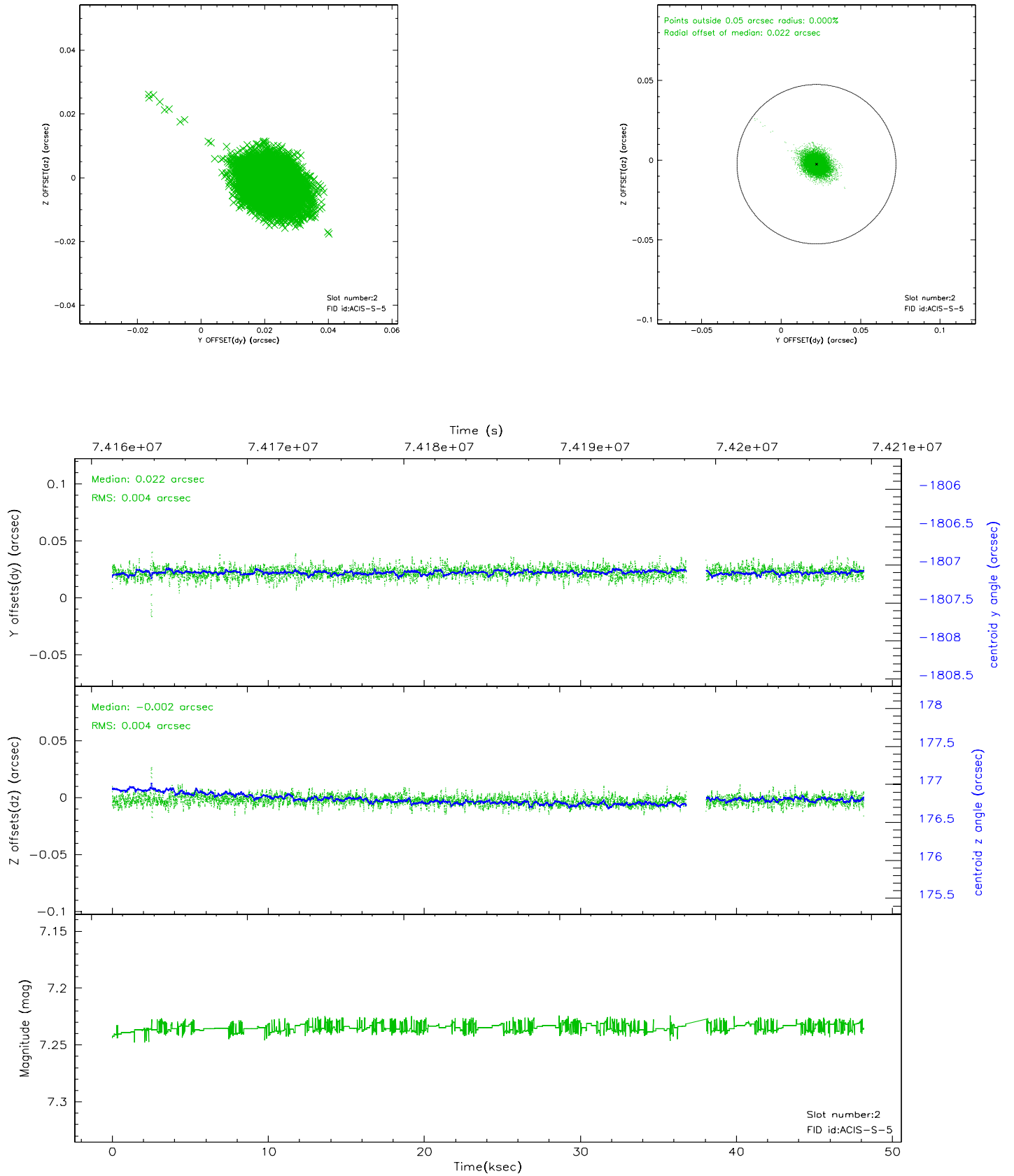
2.5.1 Slot 0



2.5.2 Slot 1



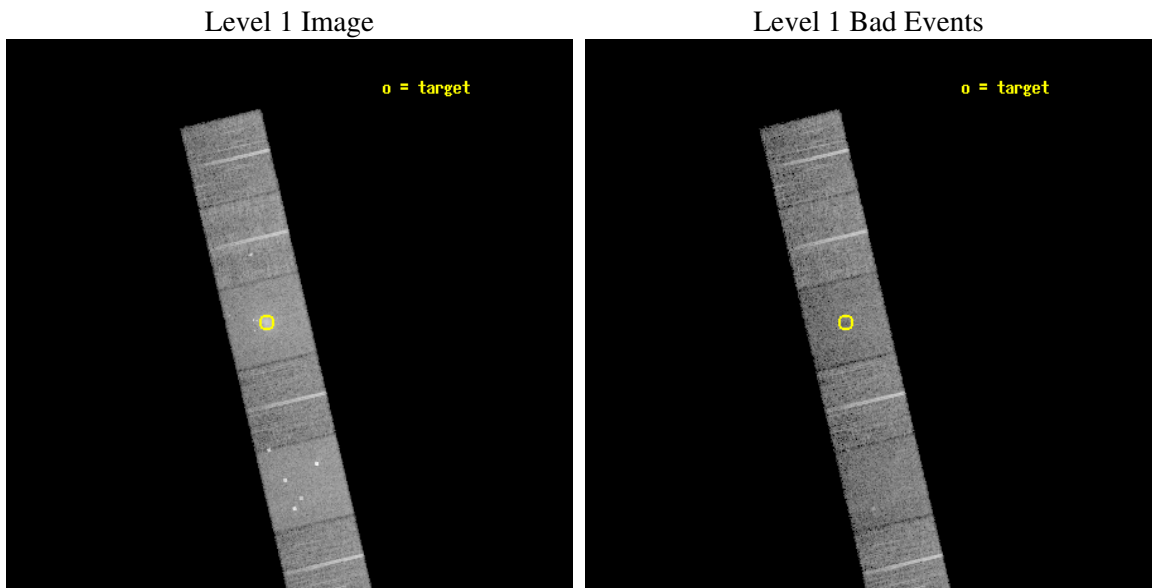
2.5.3 Slot 2



3 OBI

3.1 OBI

3.1.1 Images



3.1.2 Parameters

obi_num	2
ascdsver	7.6.11
caldbver	3.4.0
date	2007-07-13T17:11:32
revision	4

sched_exp_time	12000.000000
ontime	12083.200011253
ontime4	12083.200011253
ontime5	12083.200011253
ontime6	12083.200011253
ontime7	12083.200011253
ontime8	12083.200011253
ontime9	12083.200011253
l1events	489967

3.1.3 Events

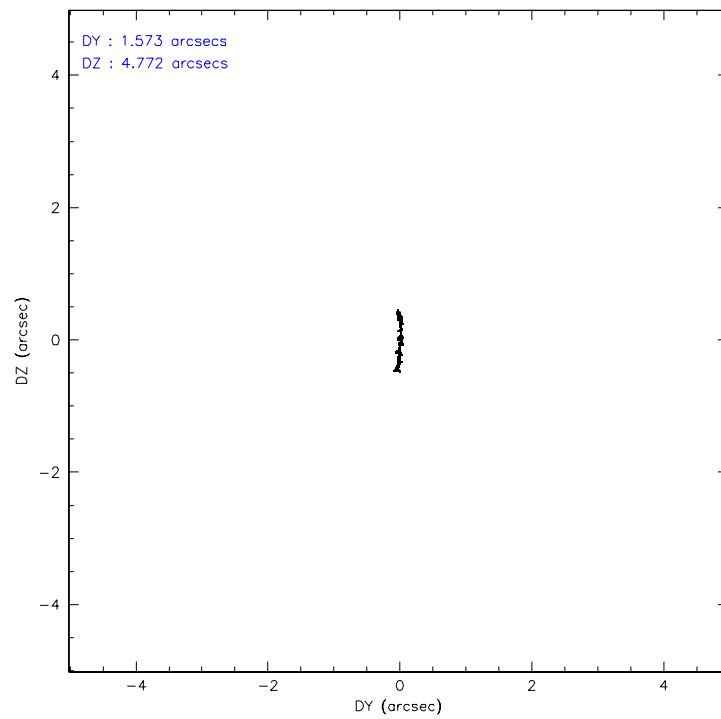
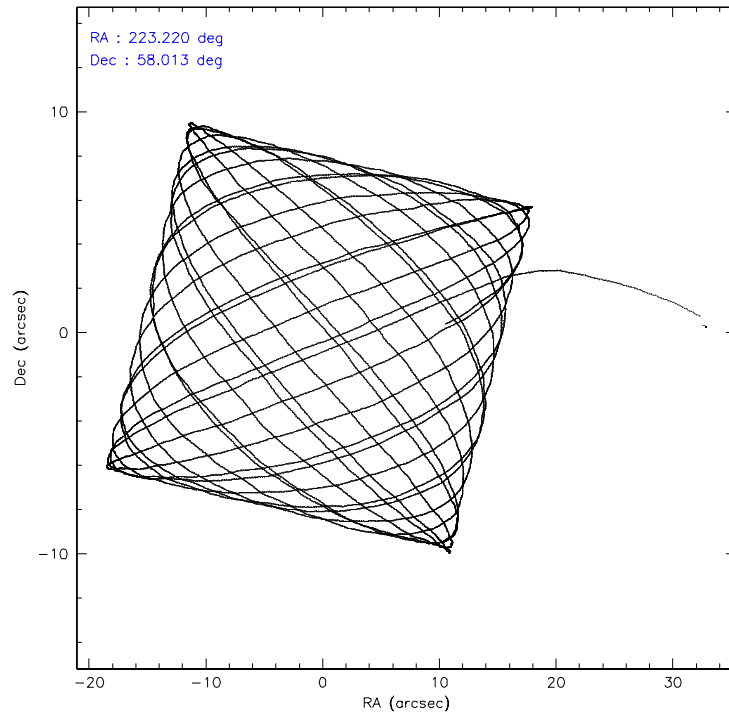
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	76271	96135	70204	92287	87051	68019
rejected events	68100	50033	62288	48393	68932	60263
rejected %	89%	52%	88%	52%	79%	88%

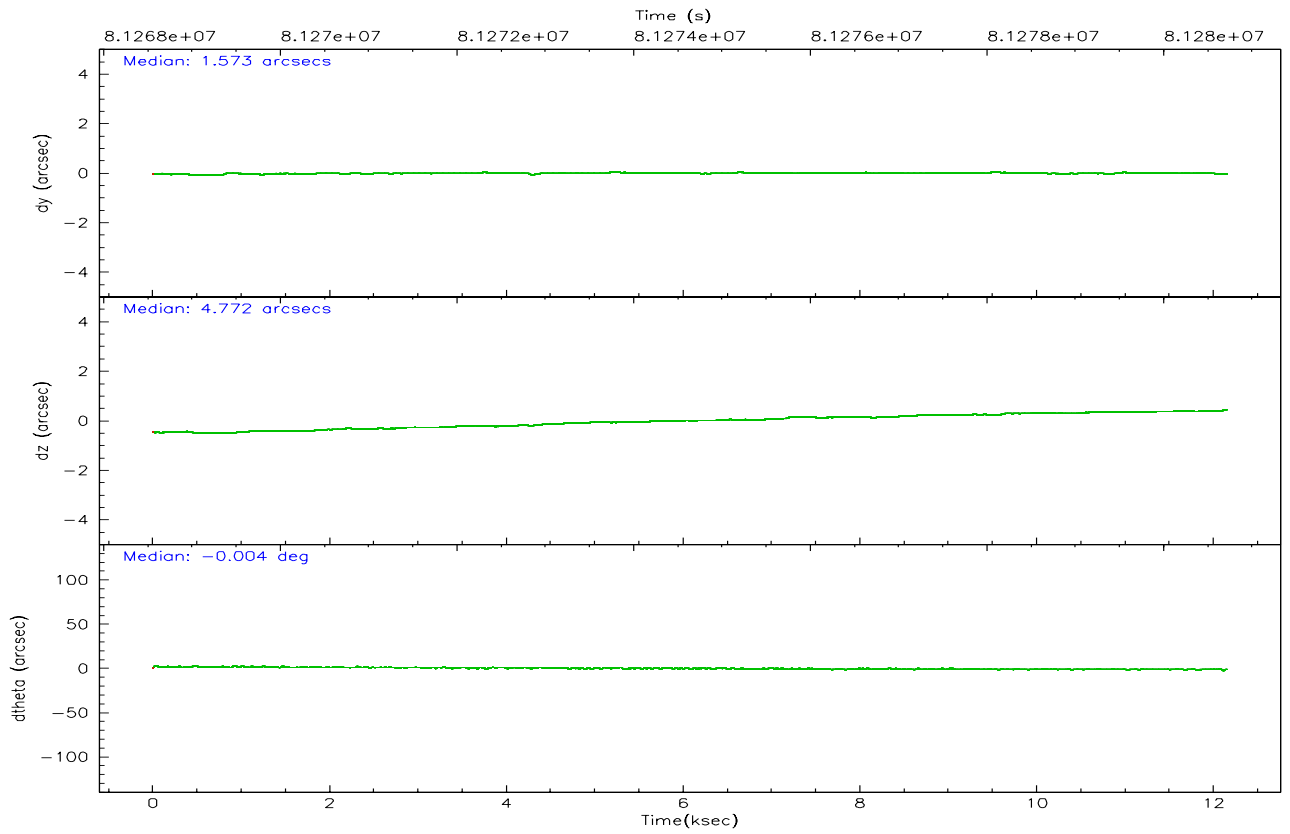
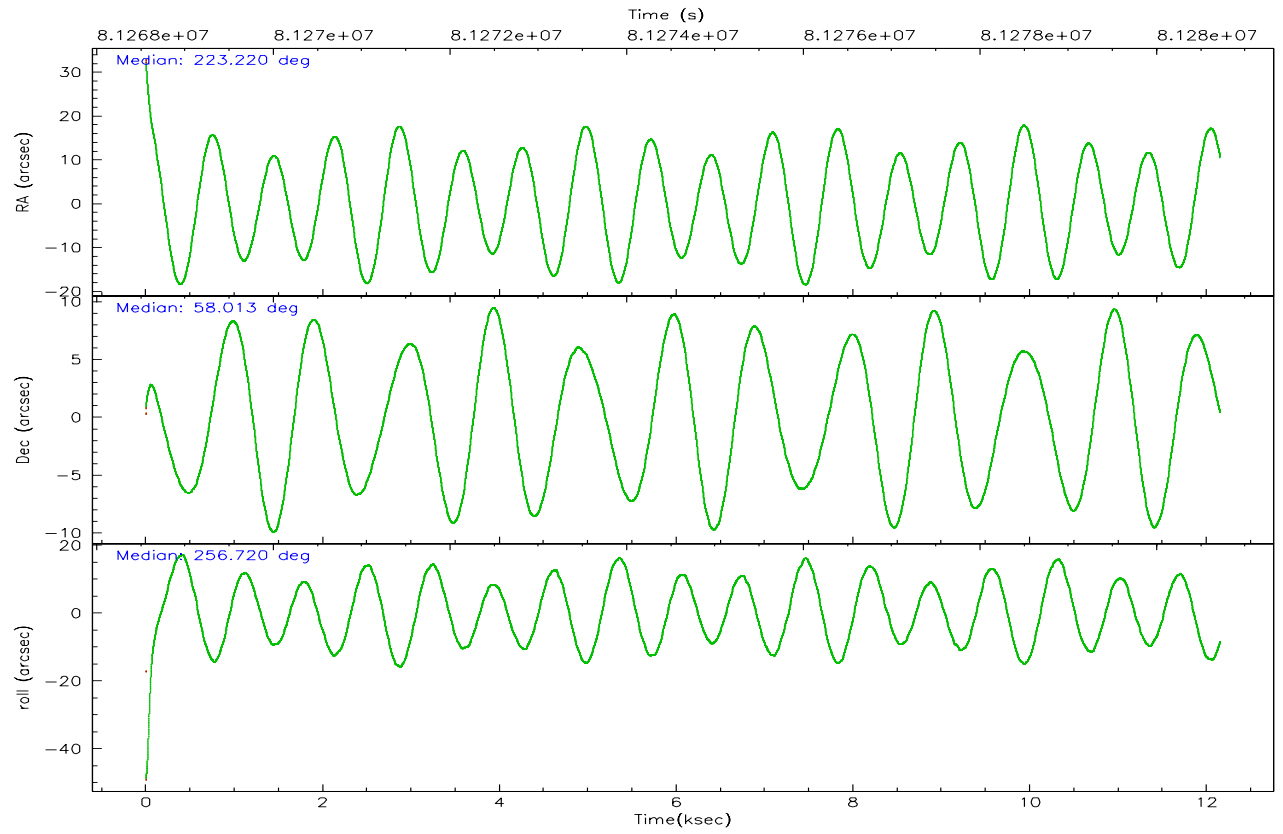
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	3392	8073	3327	6795	6036	3173
	4%	8%	4%	7%	6%	4%
grade 1 events	33	265	23	63	39	26
	0%	0%	0%	0%	0%	0%
grade 2 events	1943	12361	1553	9111	3656	1533
	2%	12%	2%	9%	4%	2%
grade 3 events	769	1834	797	4121	2000	813
	1%	1%	1%	4%	2%	1%
grade 4 events	692	1869	759	4276	1863	768
	0%	1%	1%	4%	2%	1%
grade 5 events	2364	7040	2683	8231	3459	2828
	3%	7%	3%	8%	3%	4%
grade 6 events	1381	21991	1482	19605	4573	1475
	1%	22%	2%	21%	5%	2%
grade 7 events	65697	42702	59580	40085	65425	57403
	86%	44%	84%	43%	75%	84%

3.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	223.239583	223.2198449962731	Alternating exposures requested	N	N
Pointing Dec	58.048667	58.01249923881709	Primary exposure time	0.000000	3.2
Pointing Roll	256.579223	256.7229298704886			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	81268716.184000	81267685.881189			
Observation start date	2000-07-29T14:37:32	2000-07-29T14:21:25			
Observation end time	81280716.184000	81281443.431701			
Observation end date	2000-07-29T17:57:32	2000-07-29T18:10:43			
Read mode	TIMED	TIMED			

3.3 Aspect



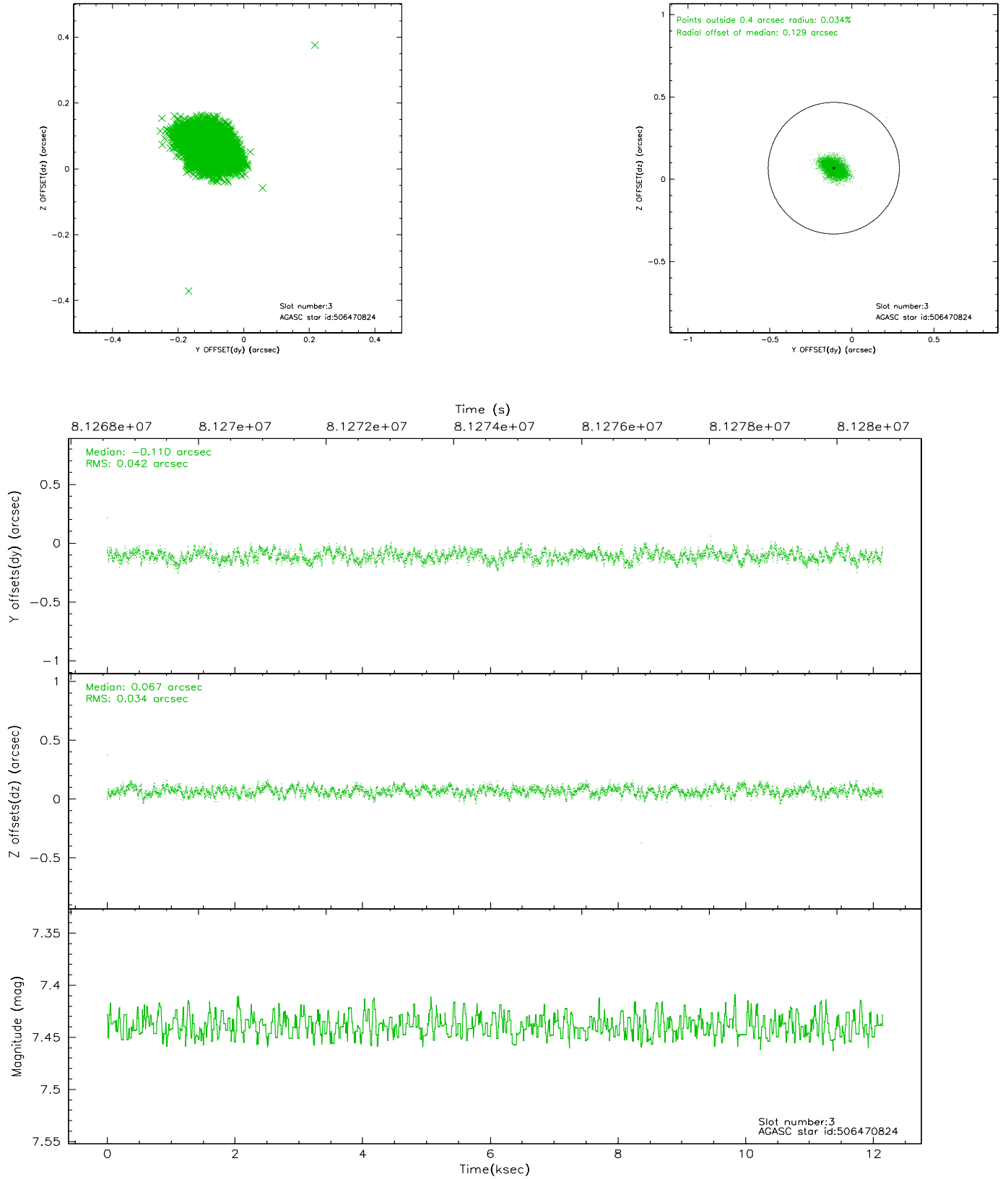


Slot Statistics

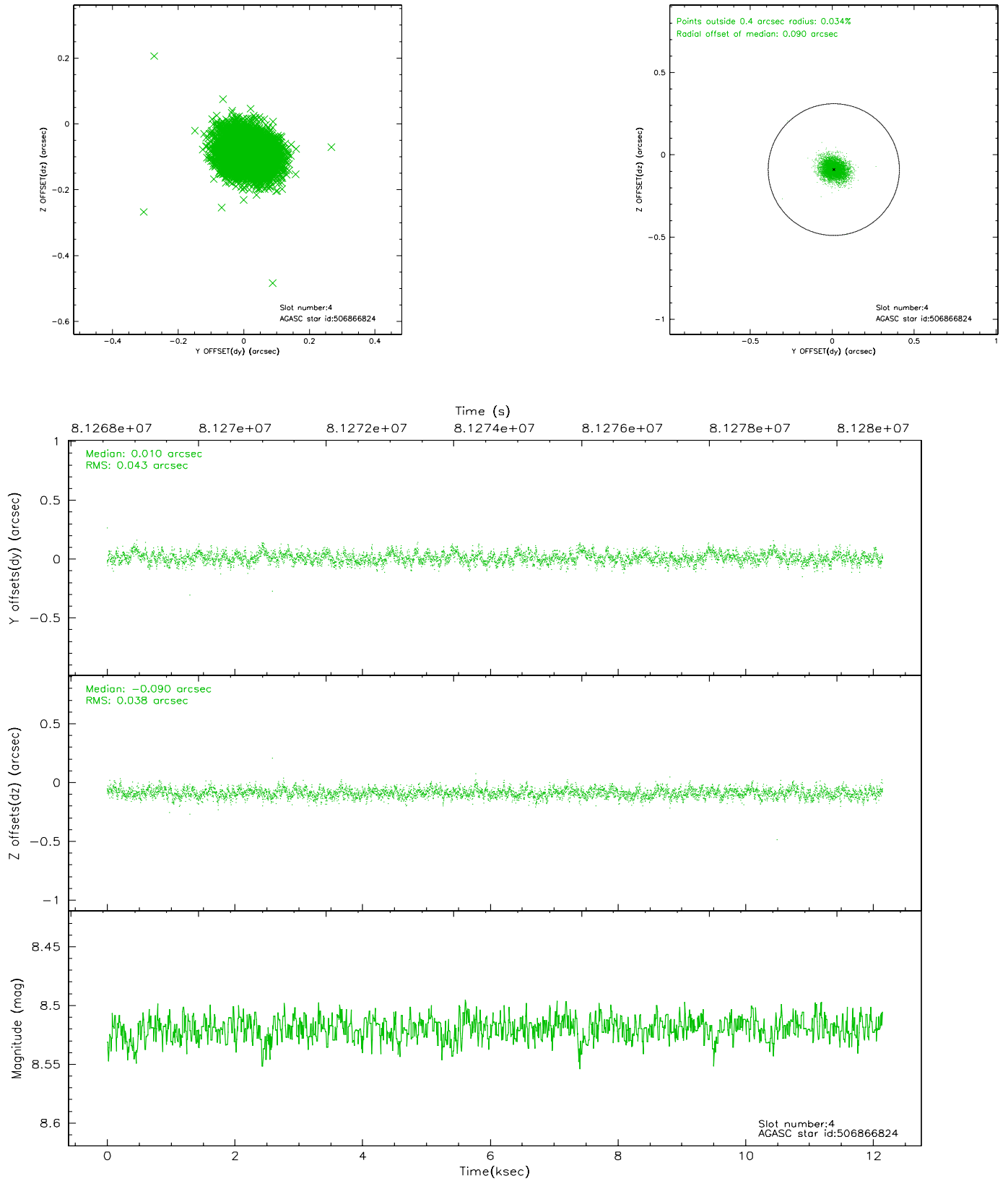
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	11438	-0.009	0.009	0.007	0.011	0.000000	0.000000	-754.11	-1725.33
1	FID	ACIS-S-4	7.21	11438	-0.044	0.002	0.005	0.009	0.000000	0.000000	2159.16	183.12
2	FID	ACIS-S-5	7.24	11438	0.022	-0.002	0.006	0.010	0.000000	0.000000	-1806.91	176.82
3	GUIDE	506861944	7.43	22874	-0.123	0.045	0.052	0.089	224.335957	57.649138	-2102.35	1562.76
4	GUIDE	506864456	7.92	22874	0.032	-0.084	0.048	0.078	222.497108	57.914314	1387.88	473.72
5	GUIDE	506866824	8.53	22869	-0.018	0.041	0.060	0.097	223.367760	58.198161	-315.06	-471.65
6	GUIDE	506866648	8.93	22866	0.091	0.042	0.059	0.098	222.617544	58.105639	1123.53	-202.42
7	GUIDE	506865200	9.53	22854	0.016	-0.042	0.075	0.123	222.823047	58.395128	684.04	-1224.51

3.4 Star Slots

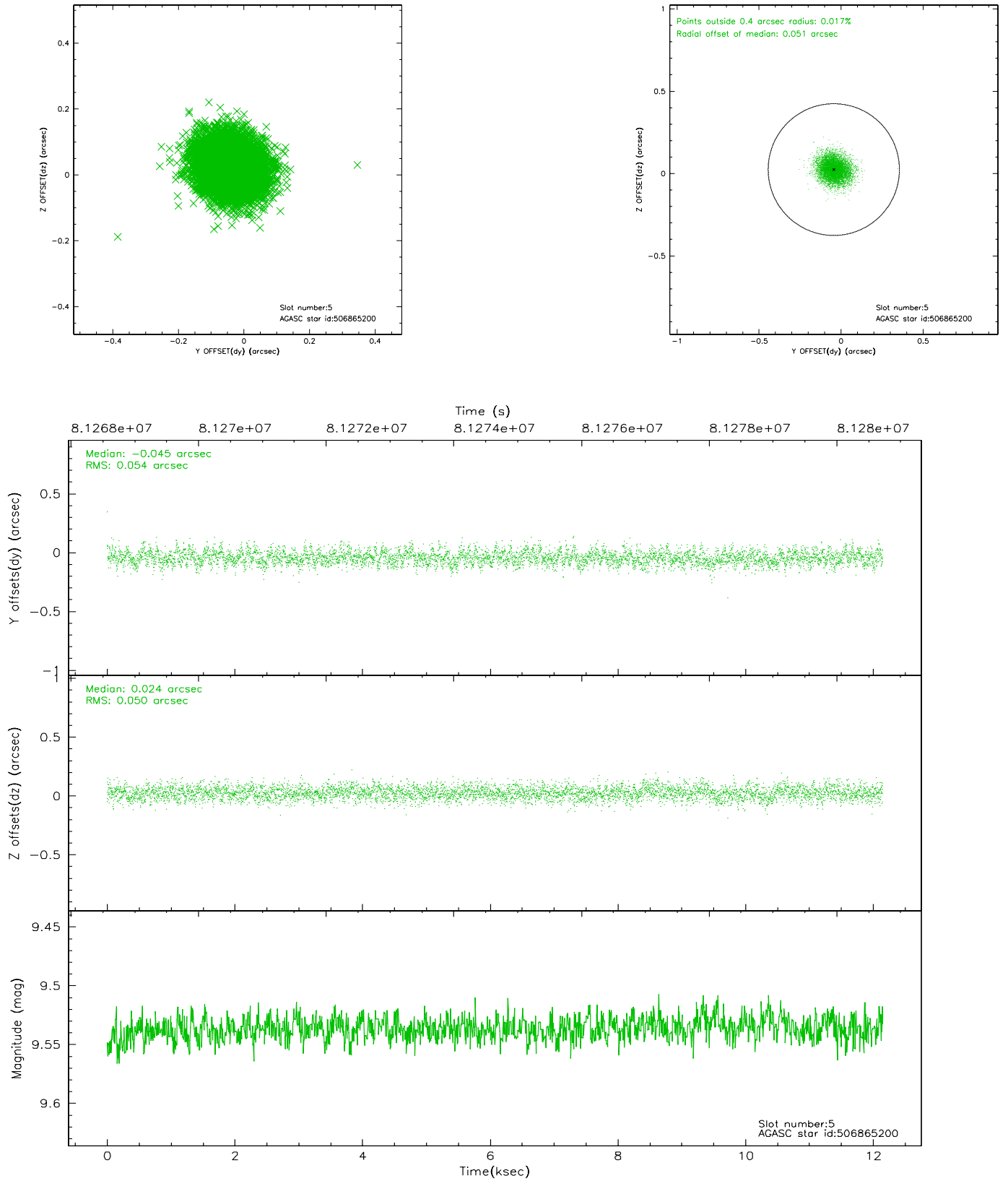
3.4.1 Slot 3



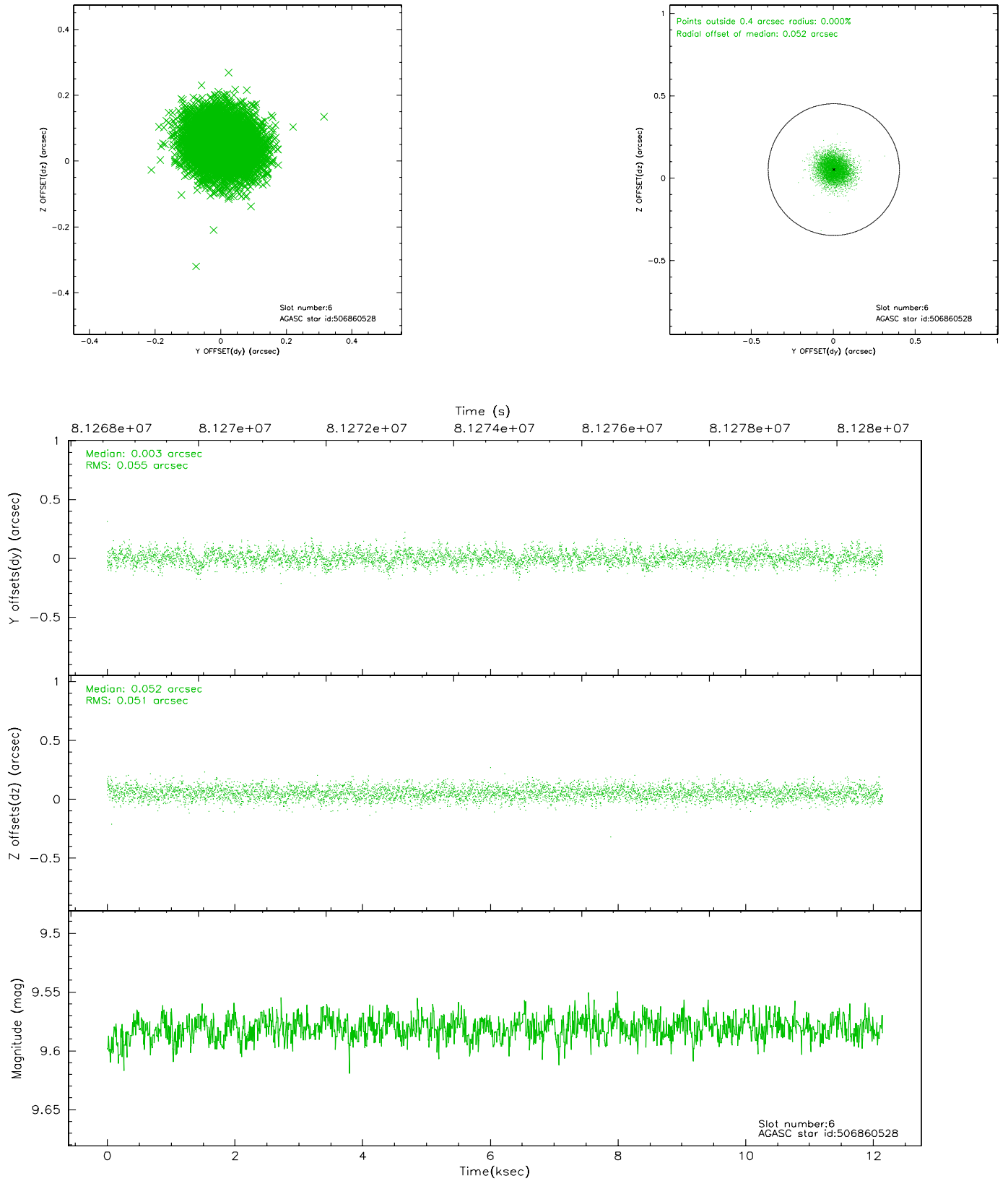
3.4.2 Slot 4



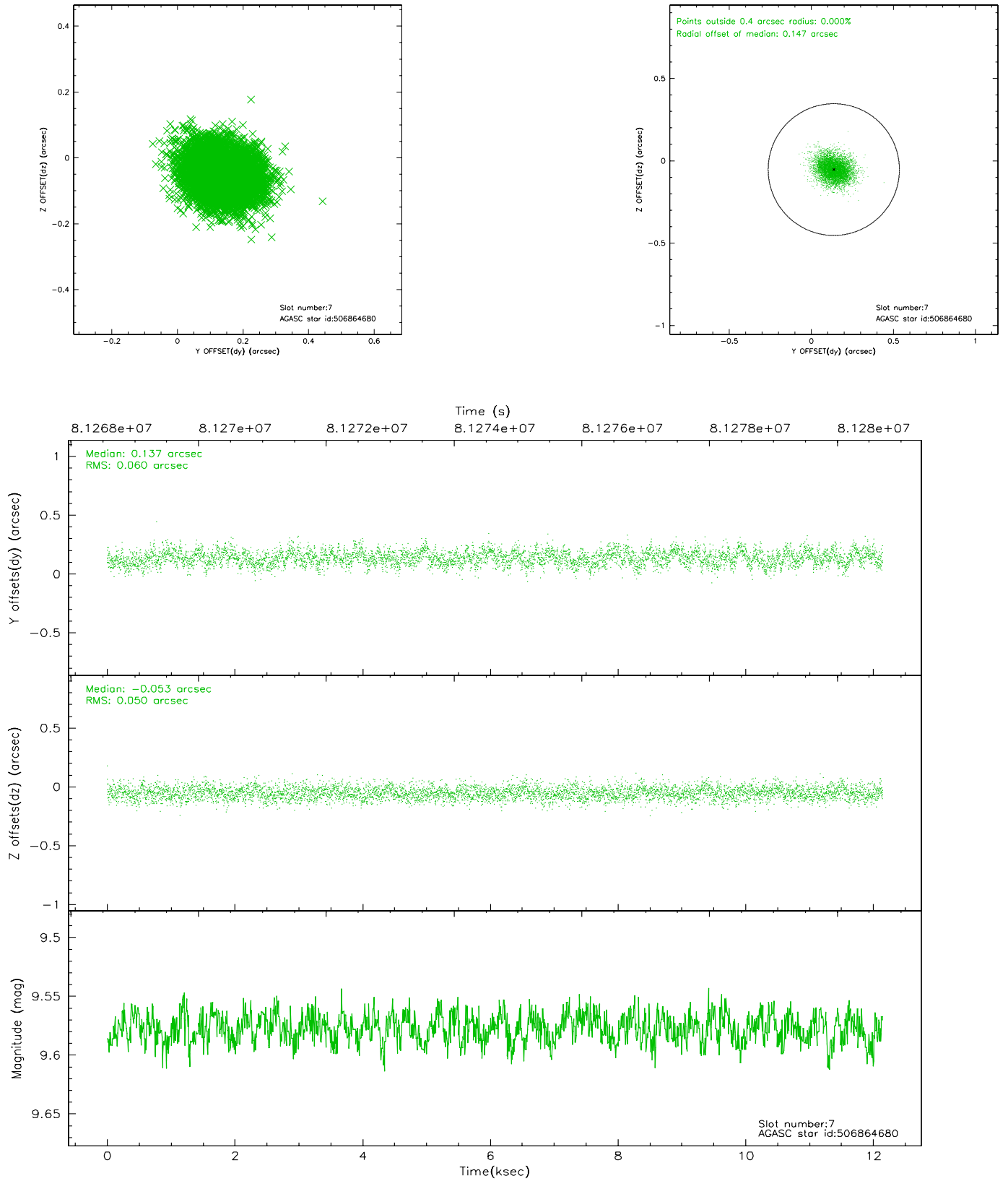
3.4.3 Slot 5



3.4.4 Slot 6

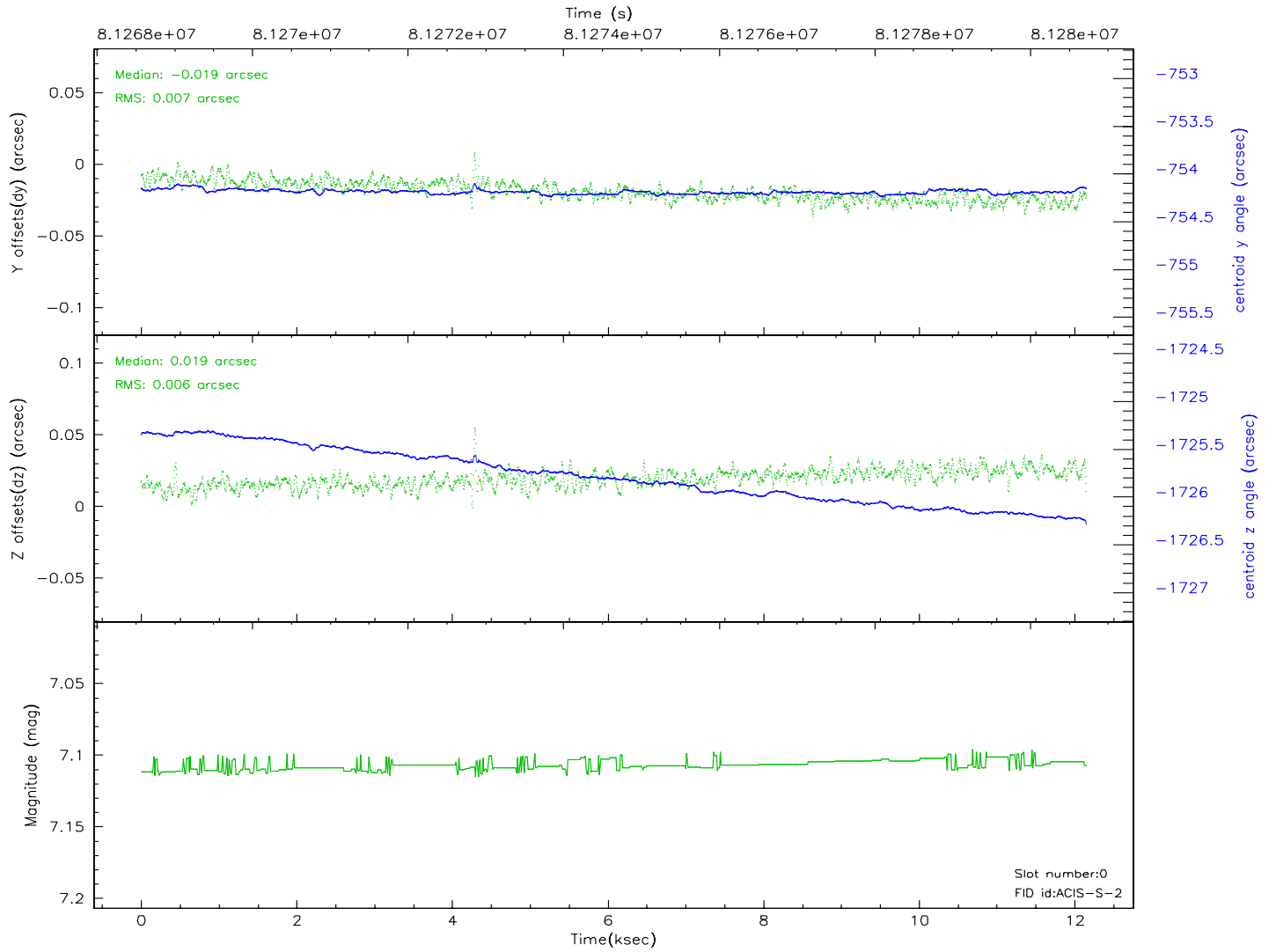
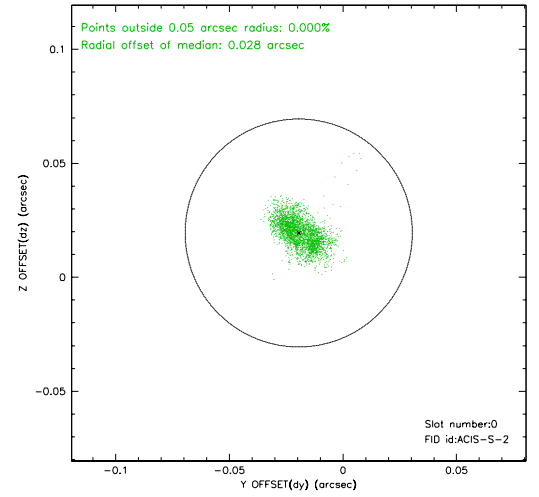
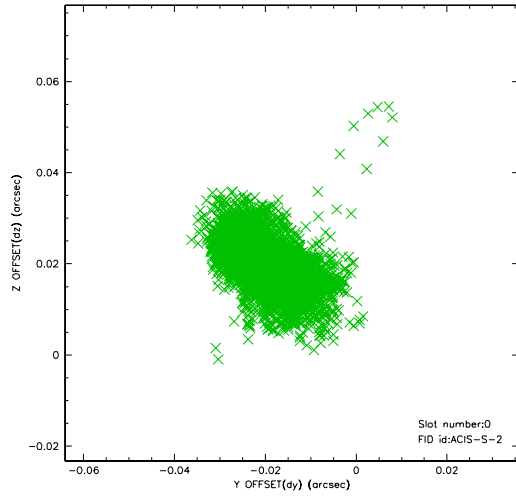


3.4.5 Slot 7

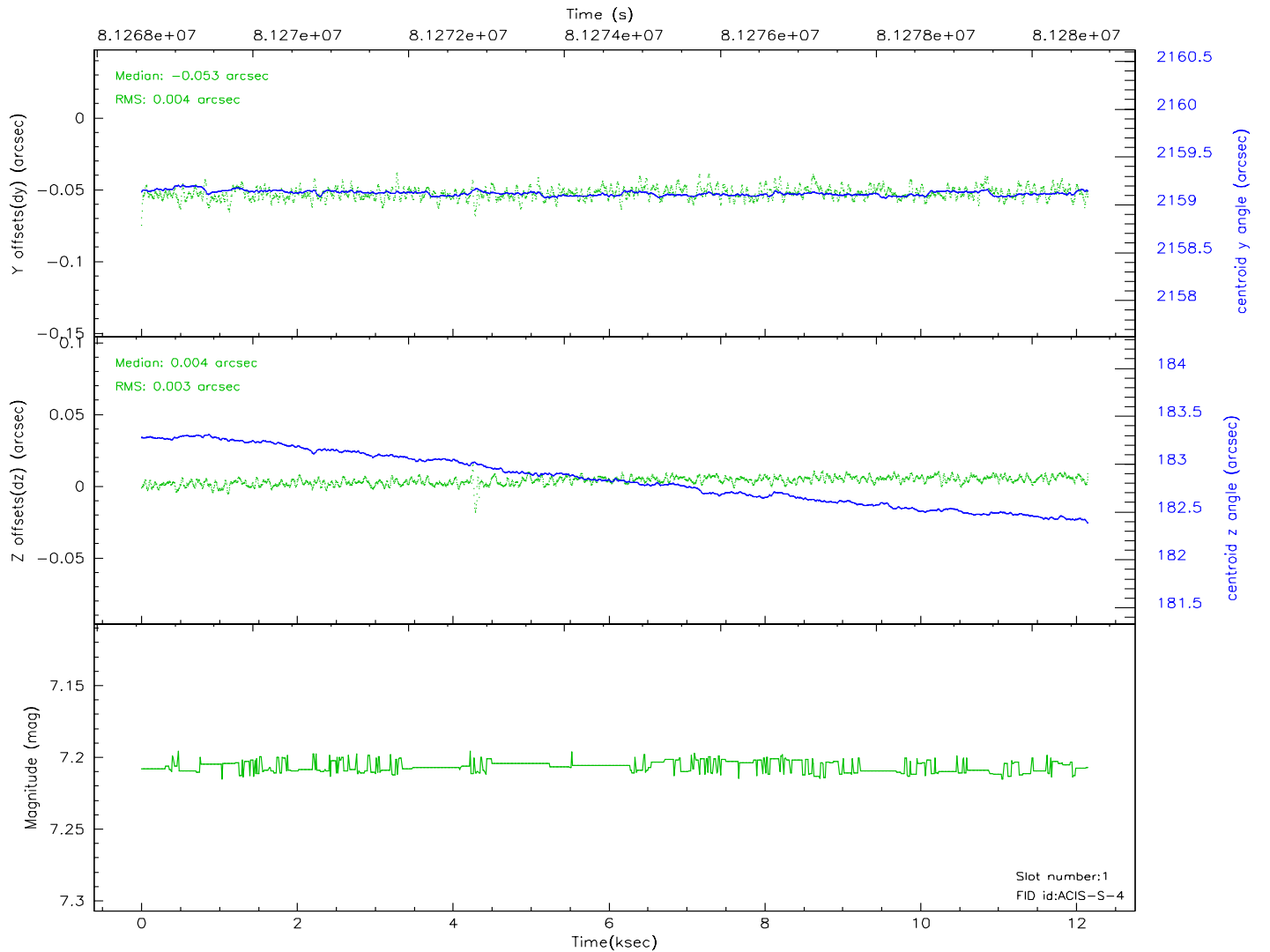
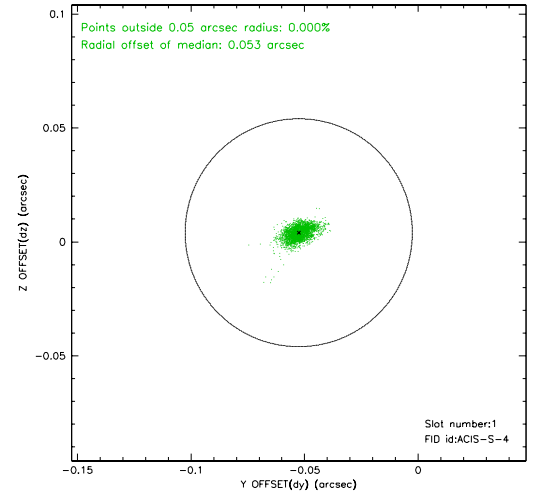
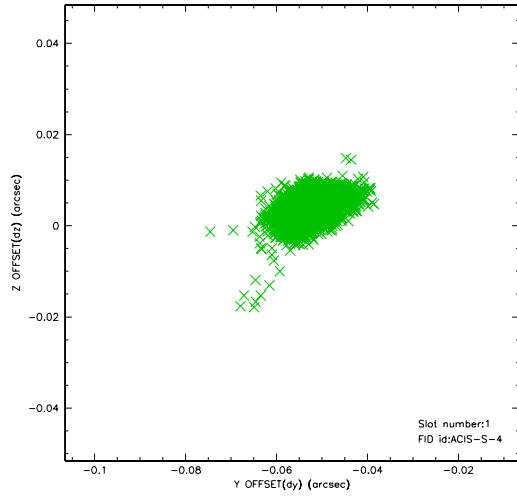


3.5 FID Slots

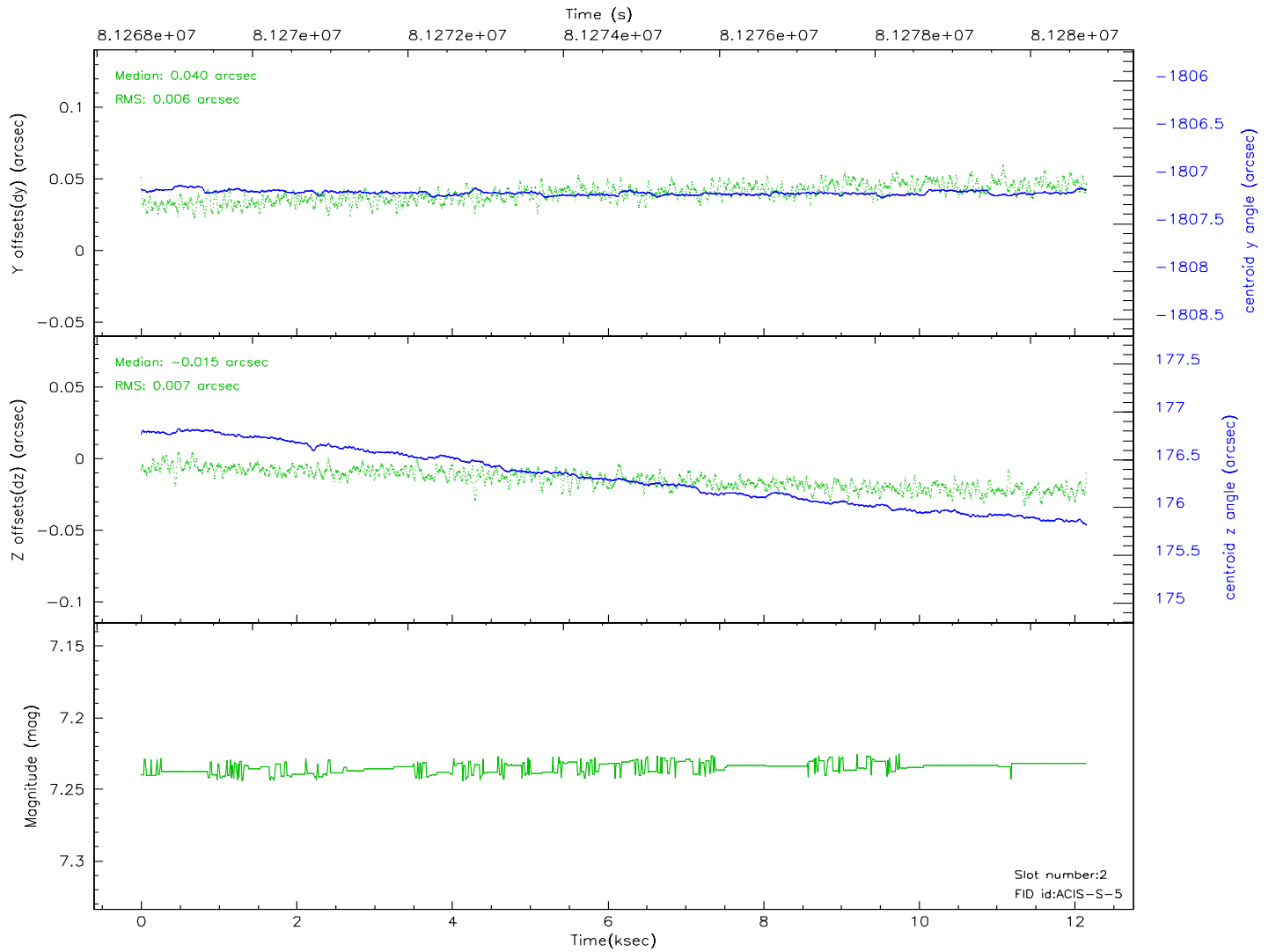
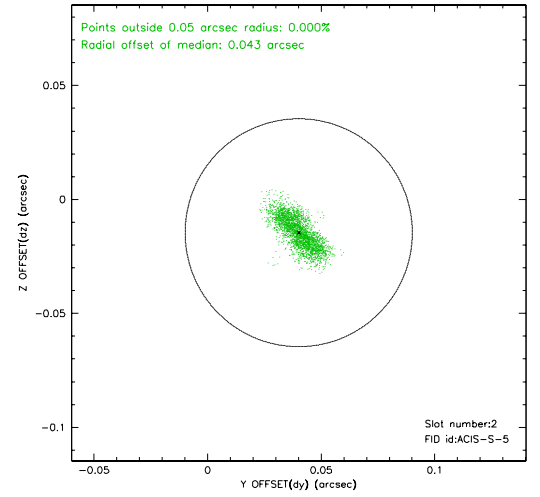
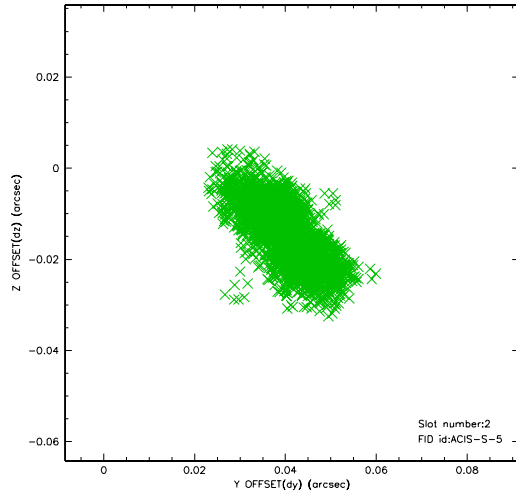
3.5.1 Slot 0



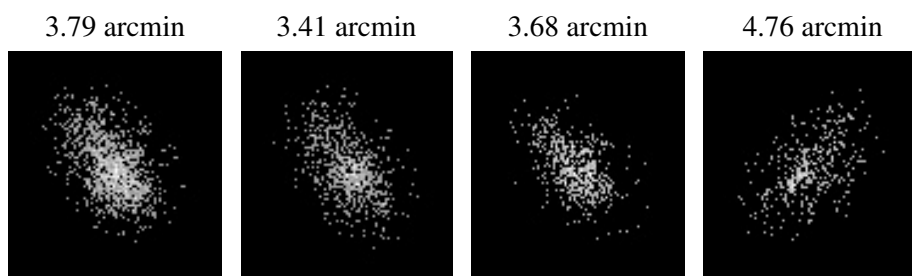
3.5.2 Slot 1



3.5.3 Slot 2



4 Point Sources



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.07.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	58.234

A.2 Comments