

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12086 - L2 Version 3
Chandra X-Ray Center

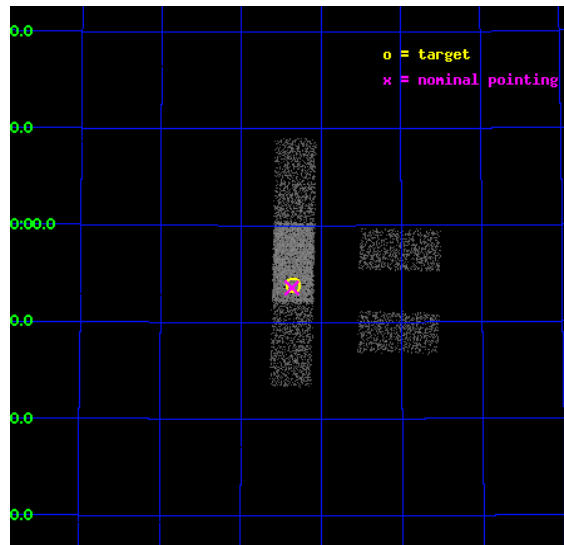
L2 Processing Date : Jun 28 2012

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1 Front

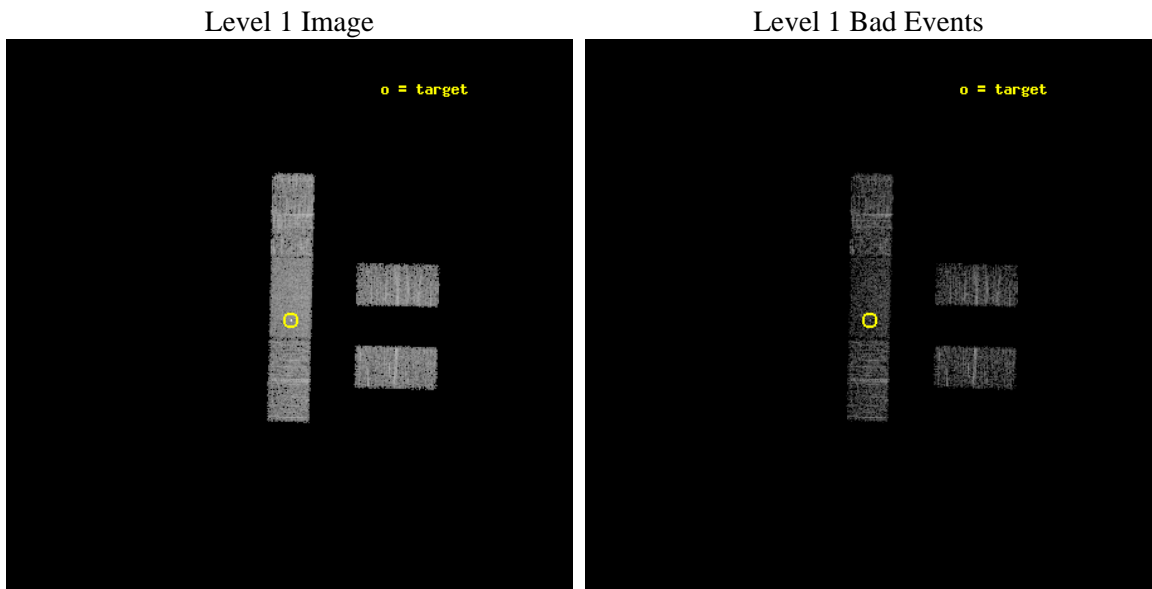
seq_num	702316	Sequence number
obs_id	12086	Observation id
title	Gravitationally lensed quasar Q0957+561AB in outburst	Proposal tit
observer	Dr Luis Goicoechea	Principal investigator
object	Q0957+561	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.336667	Observer's specified target RA [deg]
dec_targ	55.897056	Observer's specified target Dec [deg]
ra_nom	150.34144818037	Nominal RA [deg]
dec_nom	55.89289093701	Nominal Dec [deg]
roll_nom	271.25249083855	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3062.9808601737	Sum of GTIs [s]
livetime	2990.7799144737	Livetime [s]
ontime2	3062.8167001605	Sum of GTIs [s]
ontime3	3062.8987801671	Sum of GTIs [s]
ontime6	3062.9398201704	Sum of GTIs [s]
ontime7	3062.9808601737	Sum of GTIs [s]
ontime8	3062.8577401638	Sum of GTIs [s]
l2events	11825	Number of level 2 events



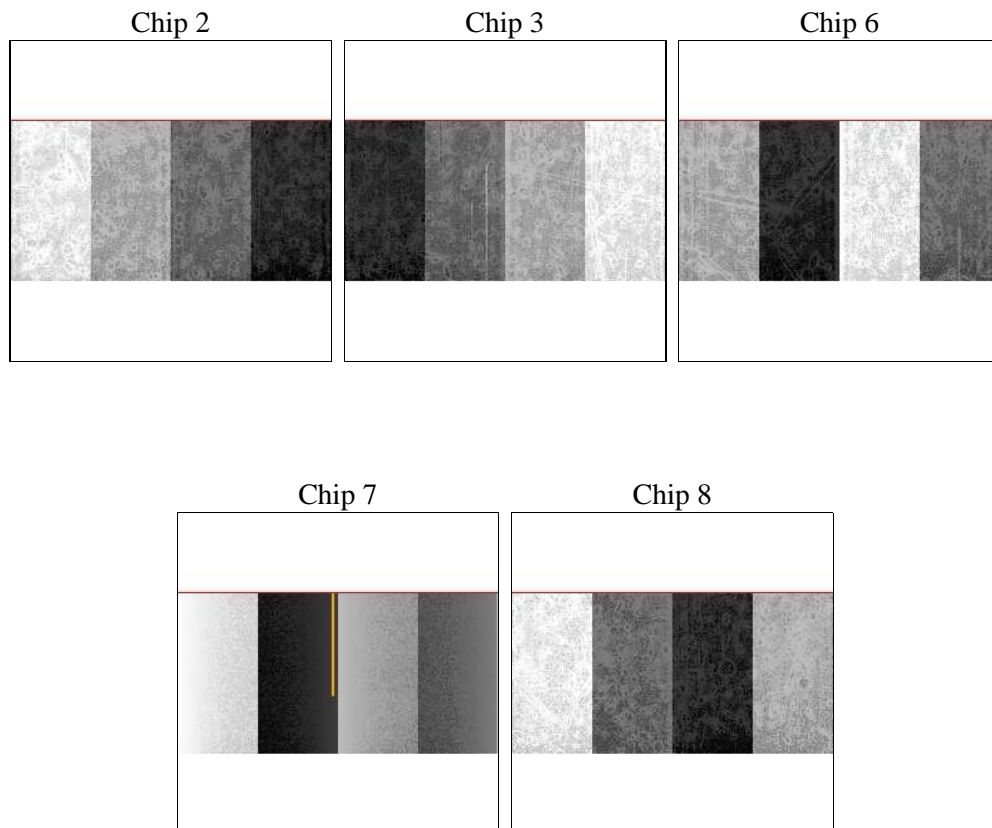
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3062.9808601737	Sum of GTIs [s]
caldsver	4.5.0	 	ontime2	3062.8167001605	Sum of GTIs [s]
date	2012-06-28T21:33:22	Date and time of file creation	ontime3	3062.8987801671	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	3062.9398201704	Sum of GTIs [s]
			ontime7	3062.9808601737	Sum of GTIs [s]
			ontime8	3062.8577401638	Sum of GTIs [s]
			l1events	68621	Number of level 1 events

2.1.4 Events

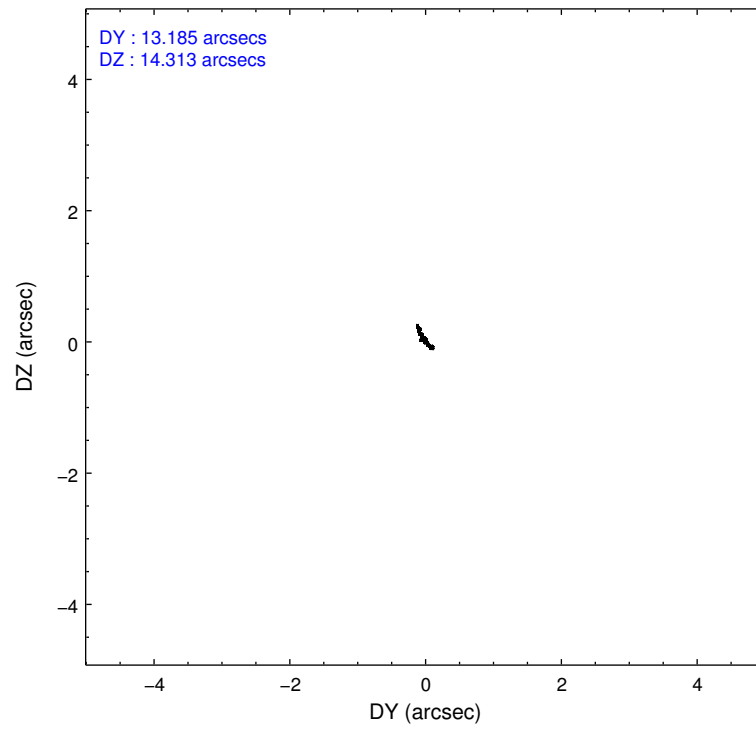
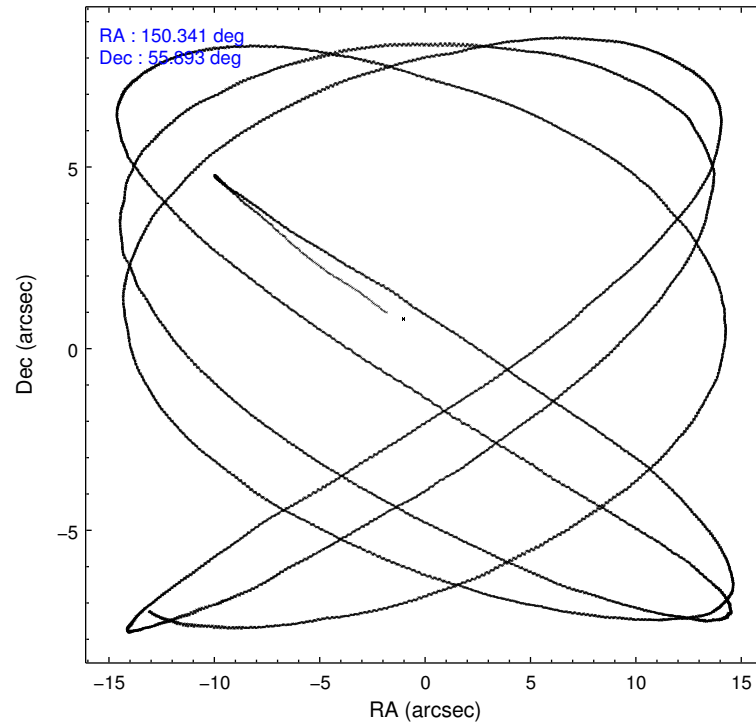
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	12221	12475	12567	15164	16194
rejected events	10877	11246	11181	7821	12337
rejected %	89%	90%	88%	51%	76%

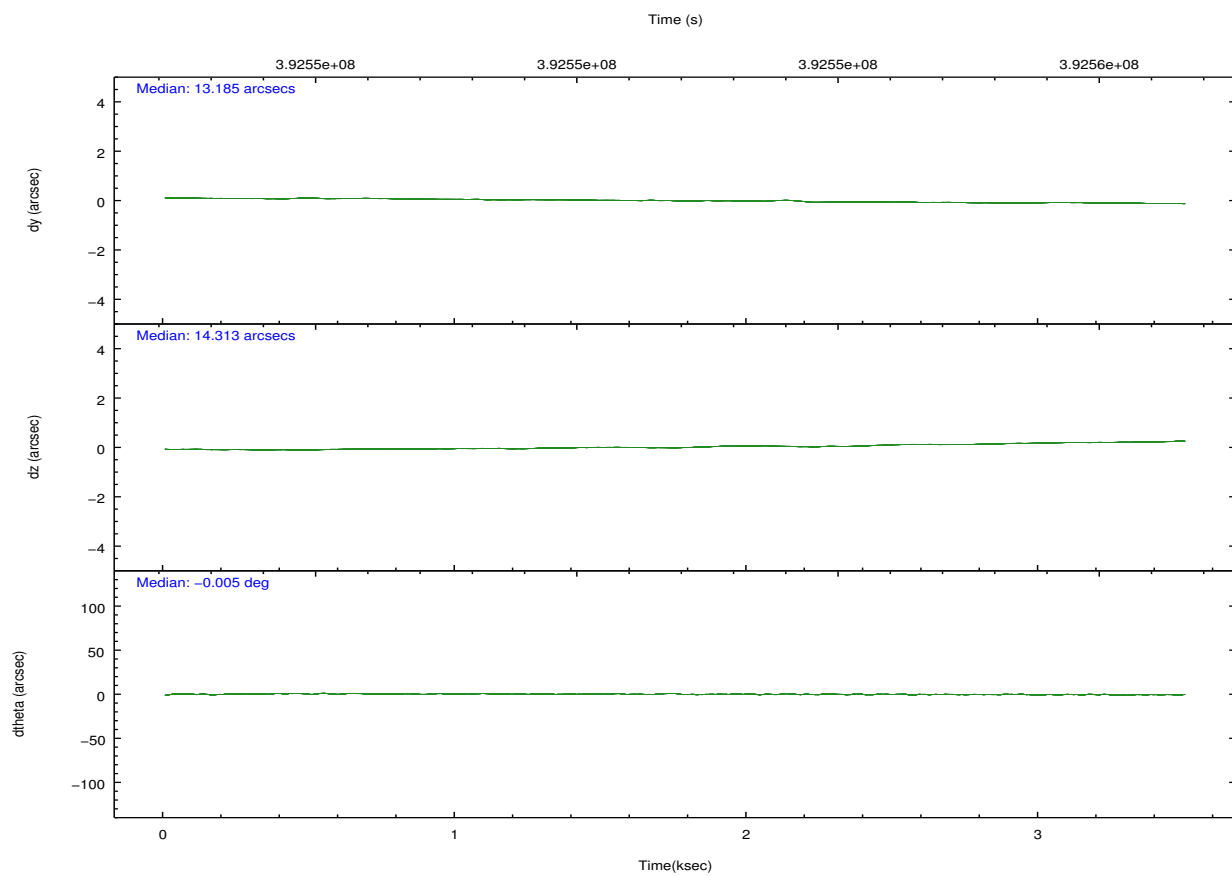
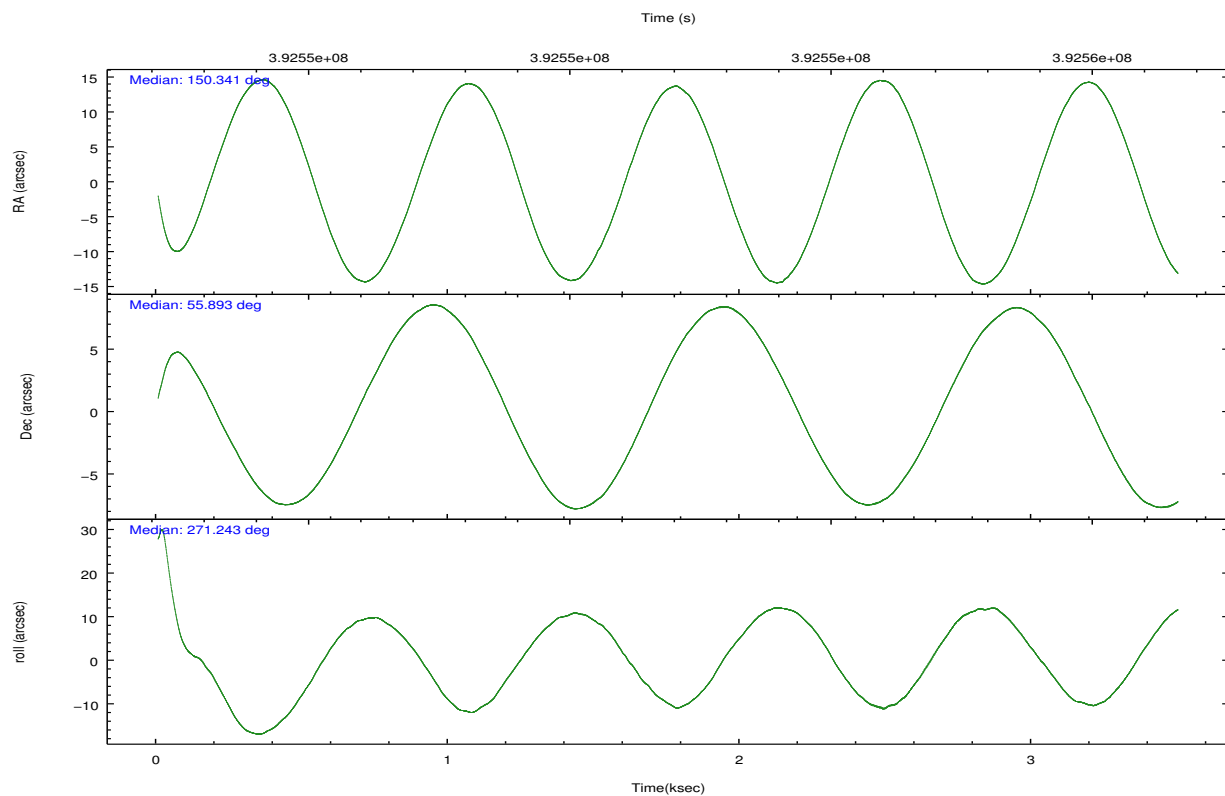
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	446	399	456	887	1088
	3%	3%	3%	5%	6%
grade 1 events	5	5	5	20	11
	0%	0%	0%	0%	0%
grade 2 events	298	262	280	1517	937
	2%	2%	2%	10%	5%
grade 3 events	179	176	198	746	389
	1%	1%	1%	4%	2%
grade 4 events	165	151	144	698	310
	1%	1%	1%	4%	1%
grade 5 events	443	549	516	1499	755
	3%	4%	4%	9%	4%
grade 6 events	258	241	308	3501	1134
	2%	1%	2%	23%	7%
grade 7 events	10427	10692	10660	6296	11570
	85%	85%	84%	41%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	150.315492	150.3414481803694	CCD I2 on	O4	Y
[deg] Pointing Dec	55.916169	55.89289093700984	CCD I3 on	O3	Y
[deg] Pointing Roll	271.117232	271.2524908385524	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O2	Y
[s] Observation start time (MET)	392552122.184000	392550599.0278	CCD S5 on	N	N
Observation start date	2010-06-10T10:14:16	2010-06-10T09:49:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	392555122.184000	392556585.02811	On-chip summing requested	N	N
Observation end date	2010-06-10T11:04:16	2010-06-10T11:29:45	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



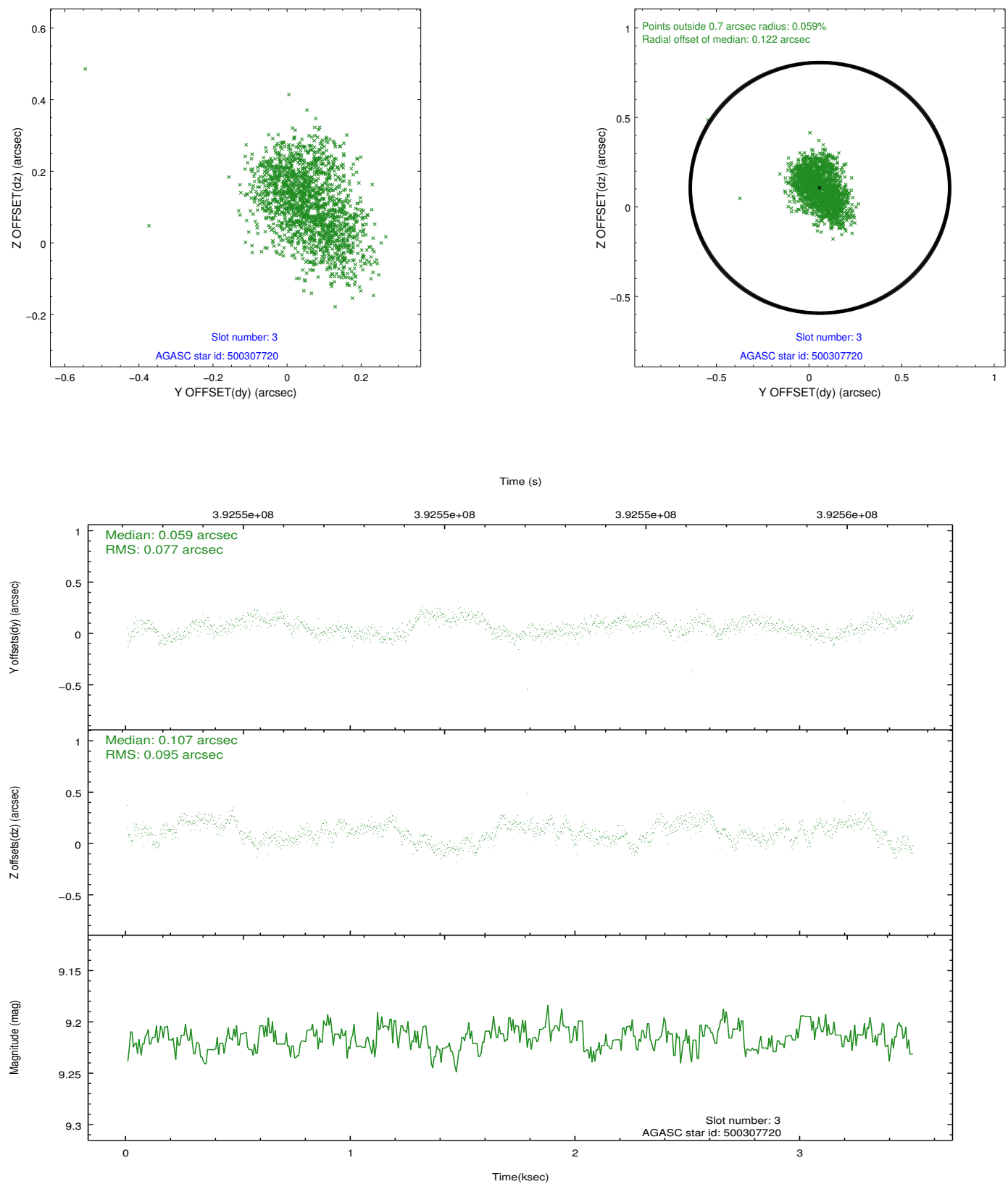


Slot Statistics

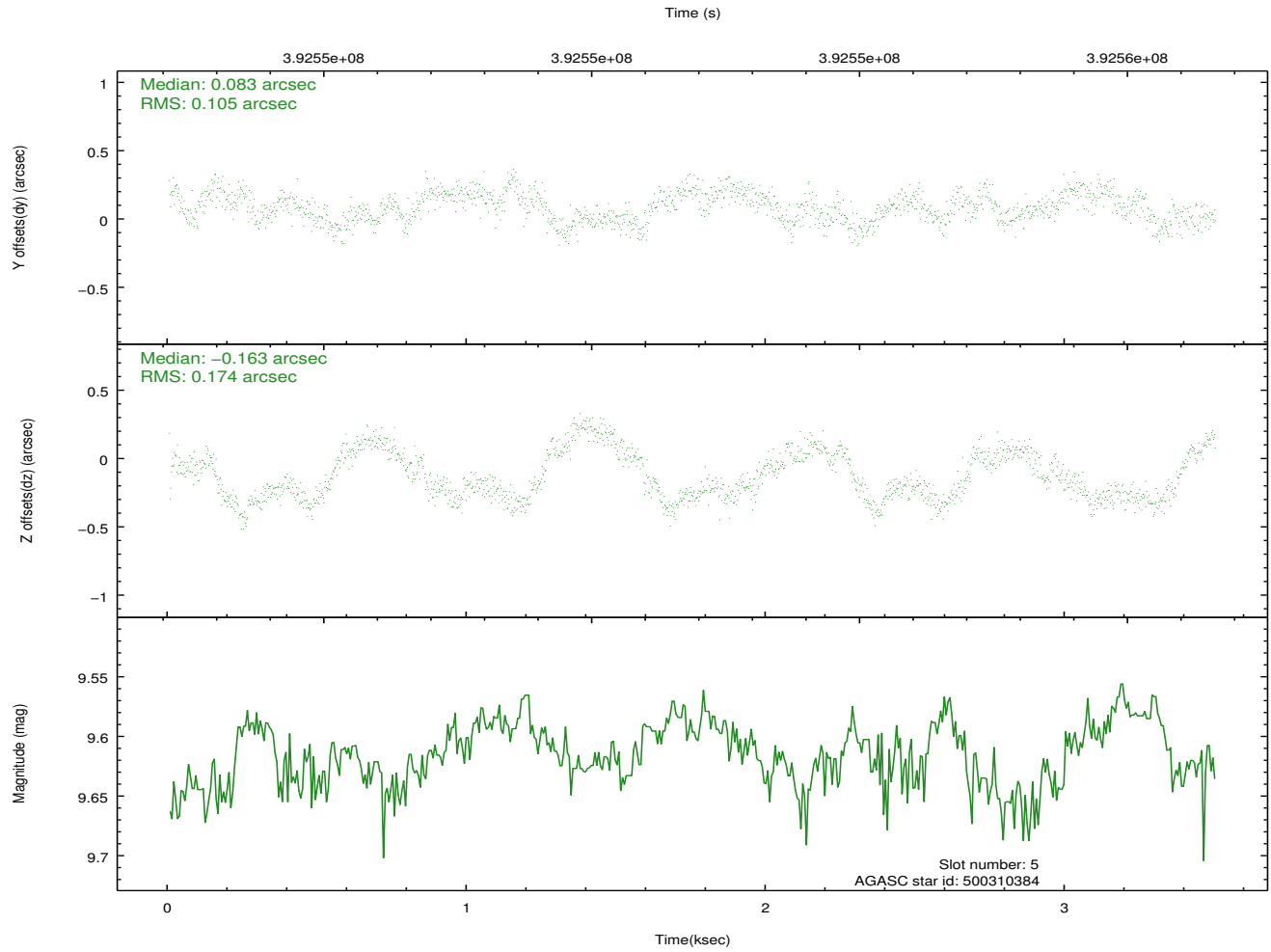
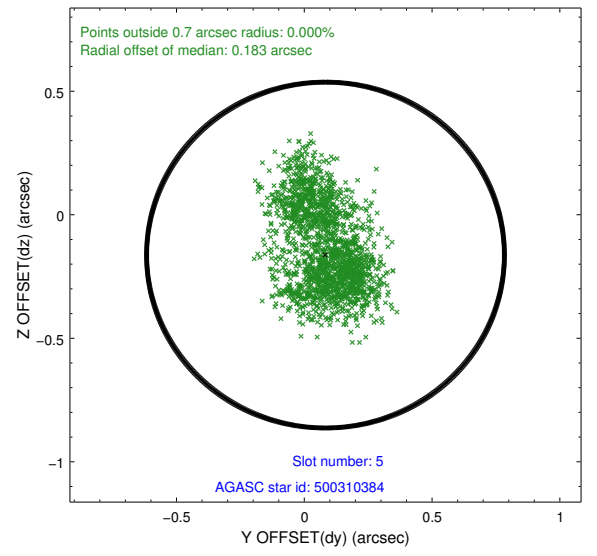
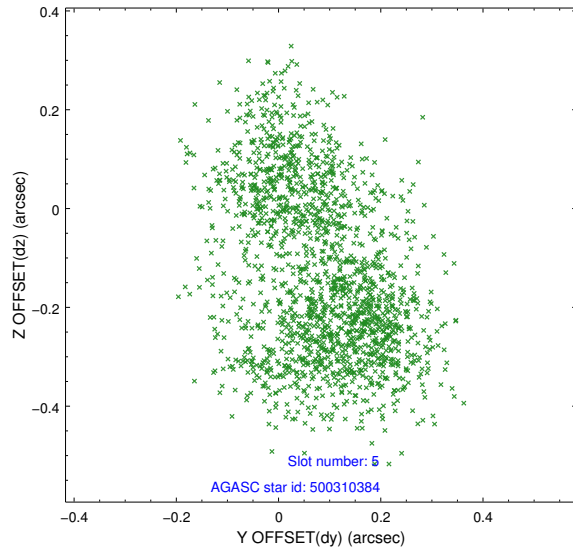
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	853	-0.036	-0.017	0.008	0.013	0.000000	0.000000	-766.12	-1735.73
1	FID	ACIS-S-4	7.01	853	0.140	0.022	0.006	0.012	0.000000	0.000000	2146.49	170.95
2	FID	ACIS-S-5	7.04	853	-0.134	0.004	0.008	0.015	0.000000	0.000000	-1816.76	166.62
3	GUIDE	500307720	9.22	1704	0.059	0.107	0.131	0.203	149.835368	56.109010	-715.96	-949.92
4	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
5	GUIDE	500310384	9.61	1707	0.083	-0.163	0.218	0.347	149.663942	55.314138	2134.61	-1376.95
6	GUIDE	500437816	8.68	1707	-0.139	0.052	0.091	0.138	151.181905	56.134575	-762.13	1752.36
7	GUIDE	500443344	9.42	1702	-0.007	-0.017	0.111	0.171	151.235048	55.451326	1696.62	1846.03

2.4 Star Slots

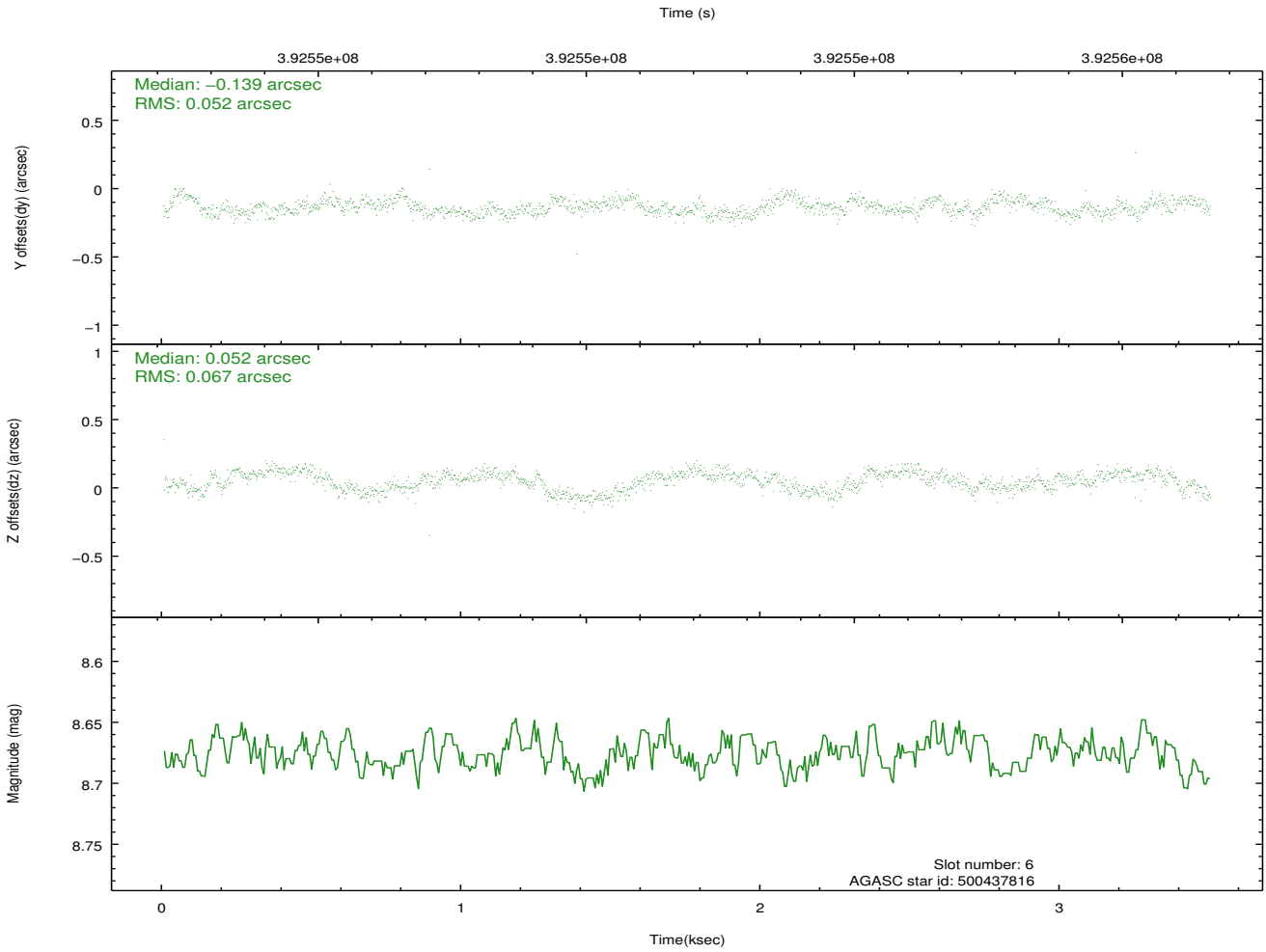
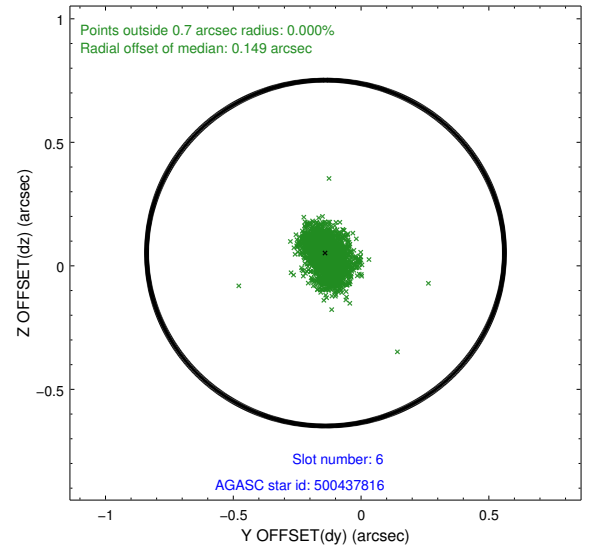
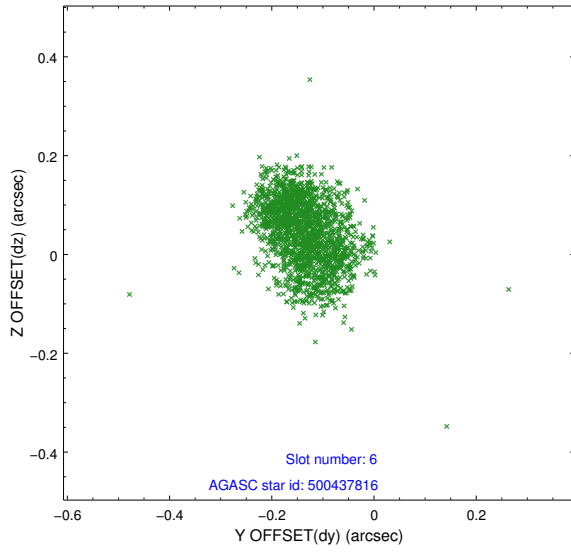
2.4.1 Slot 3



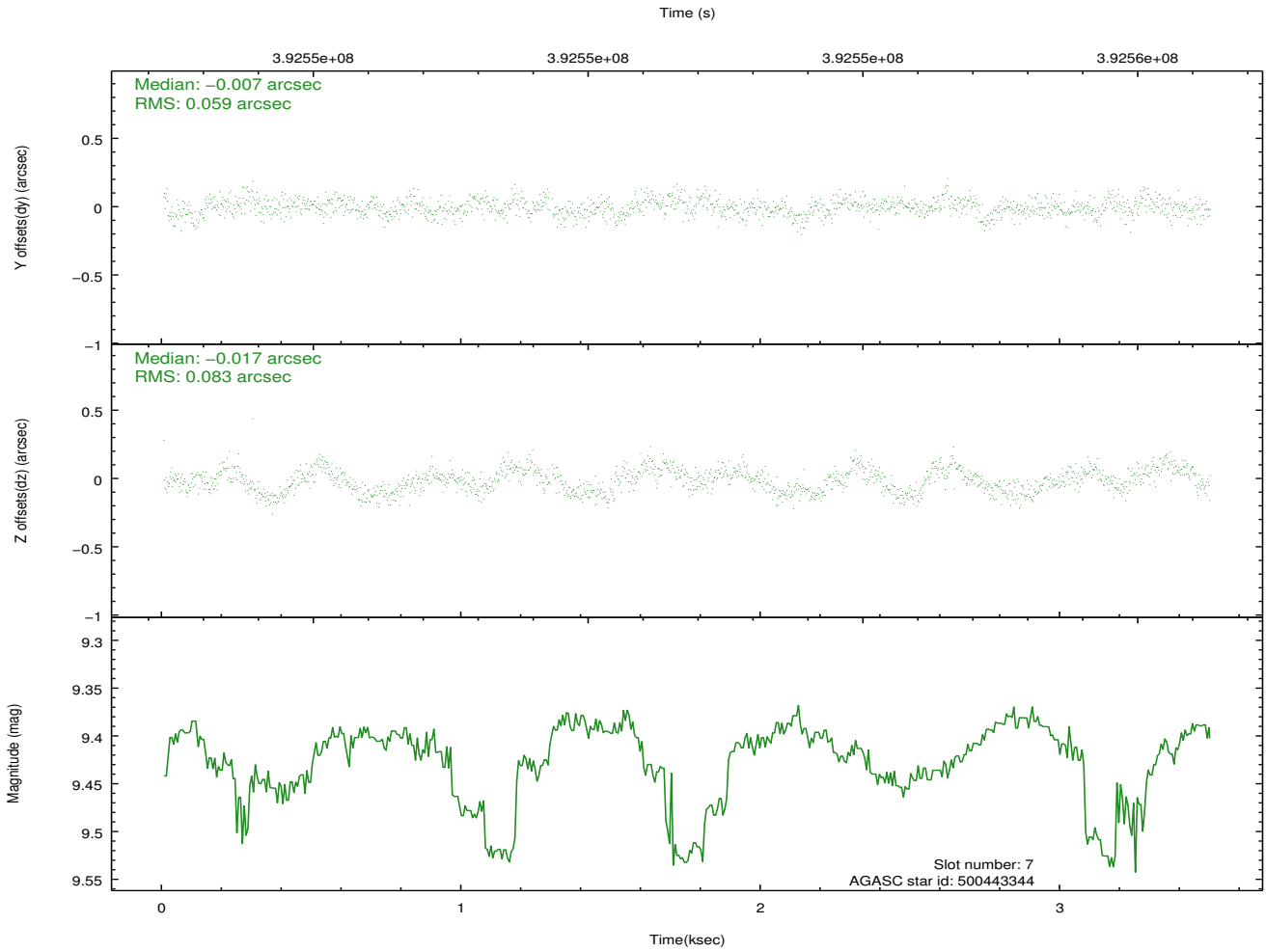
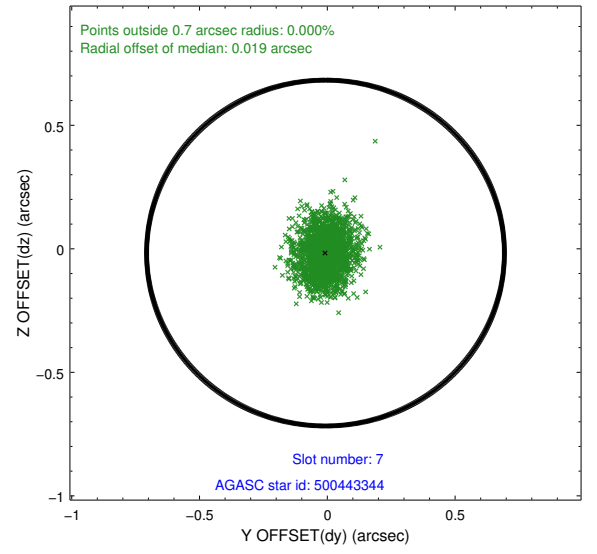
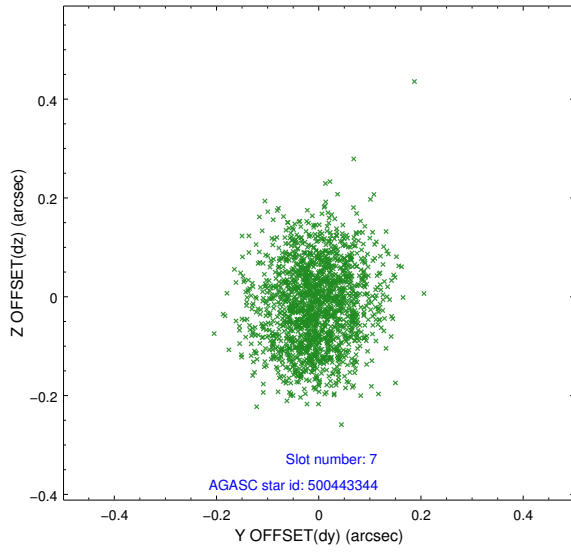
2.4.2 Slot 5



2.4.3 Slot 6

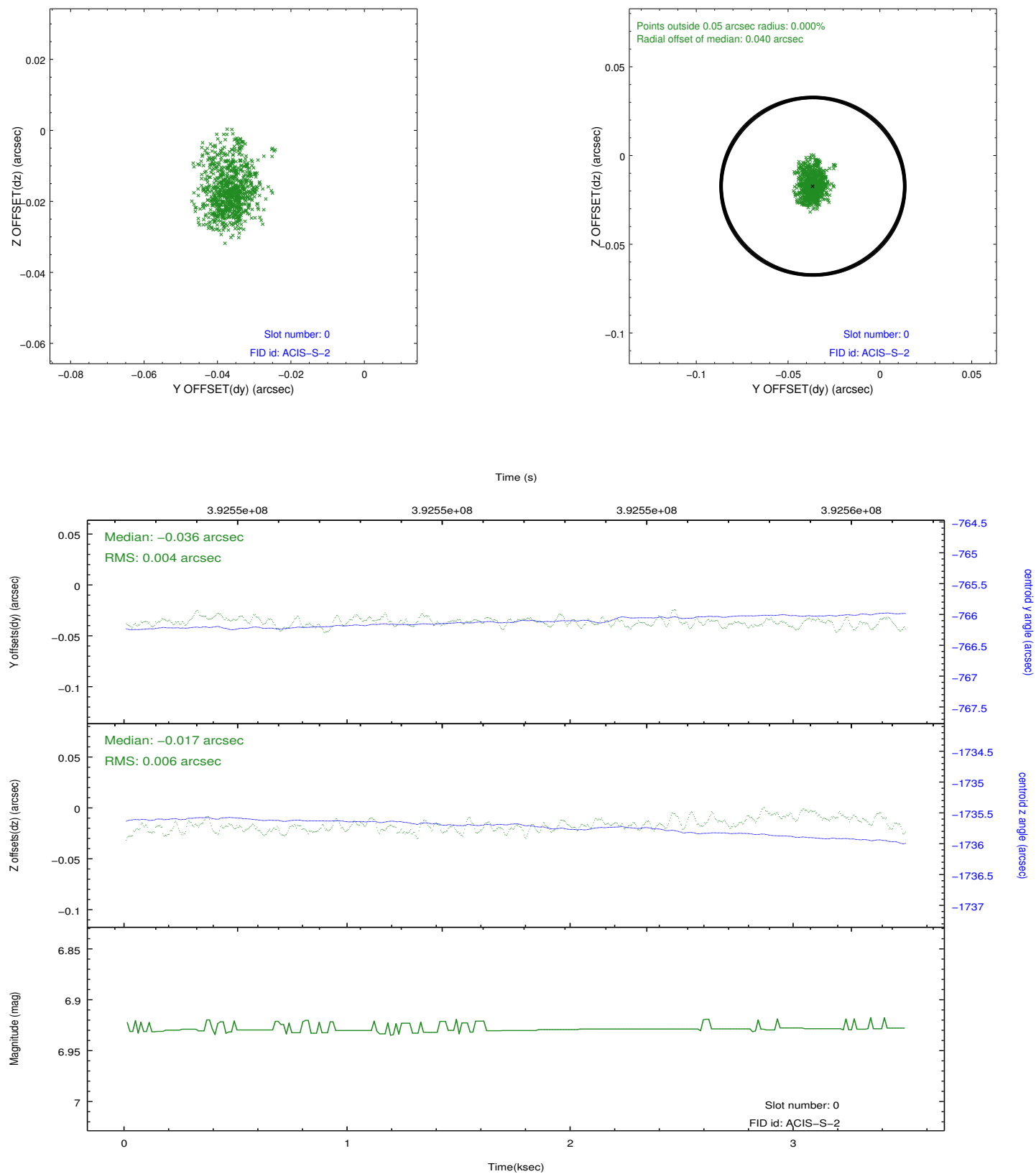


2.4.4 Slot 7

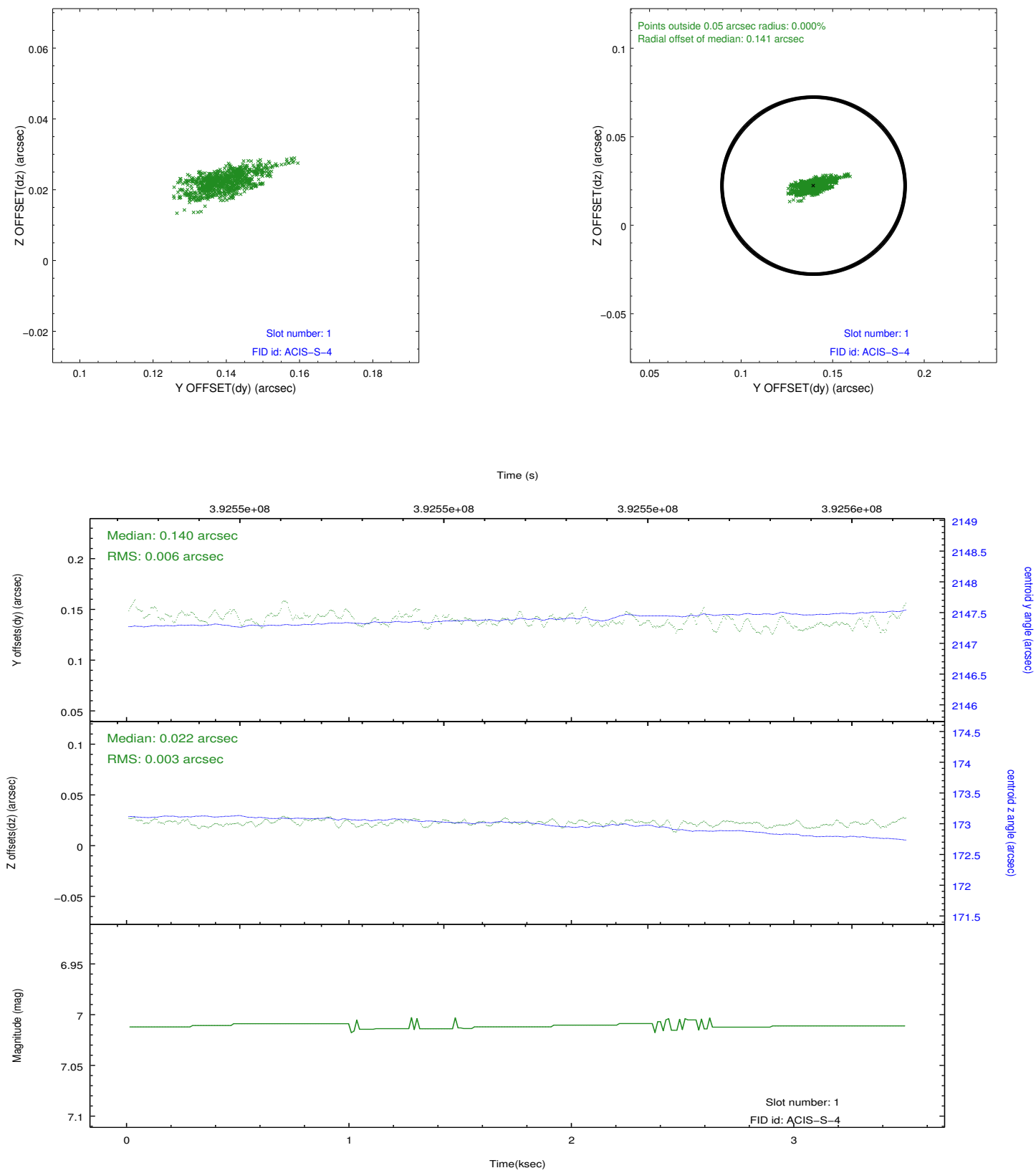


2.5 FID Slots

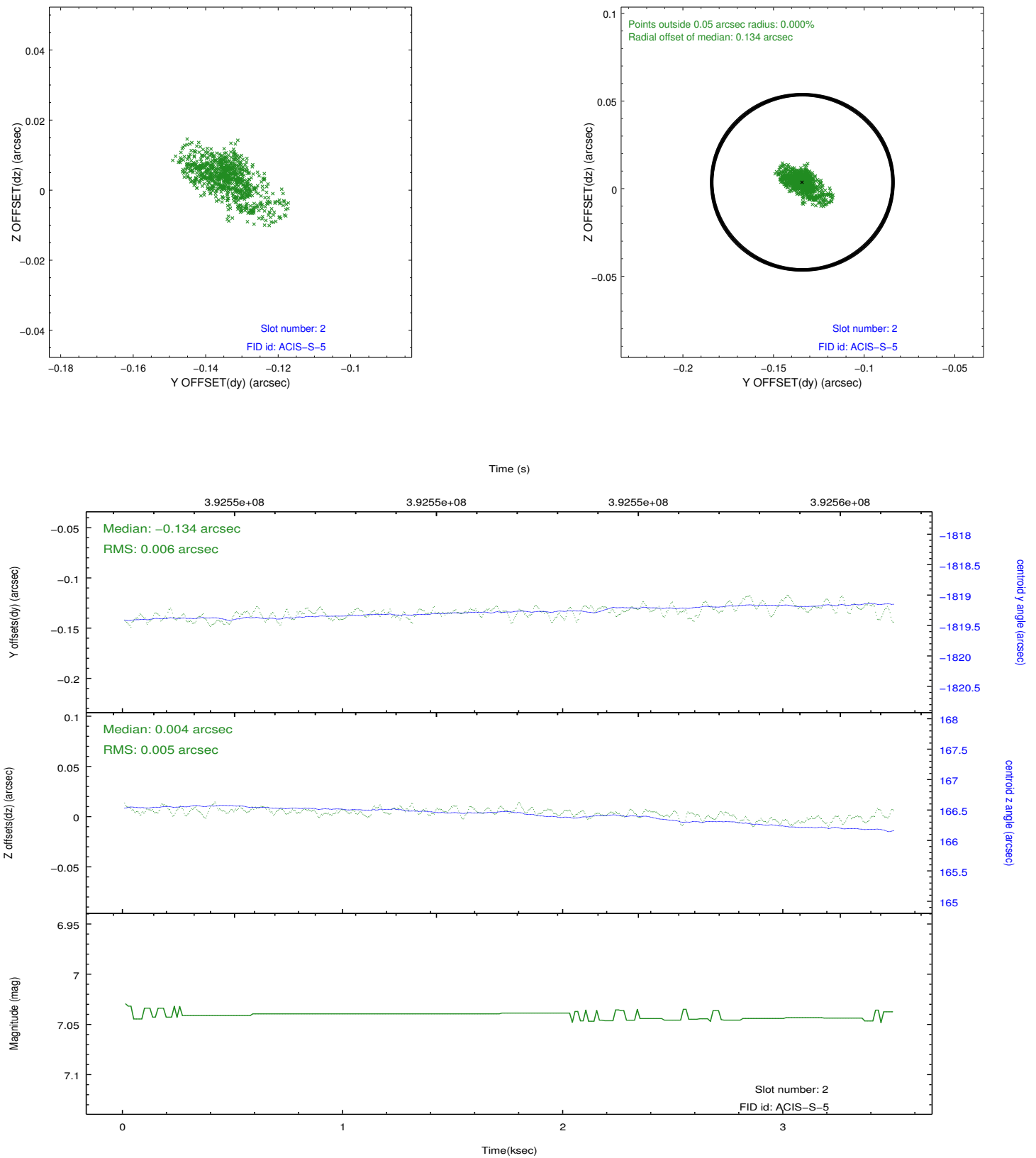
2.5.1 Slot 0



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)	2012.07.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.06298085922

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.