

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5128 - L2 Version 3
Chandra X-Ray Center

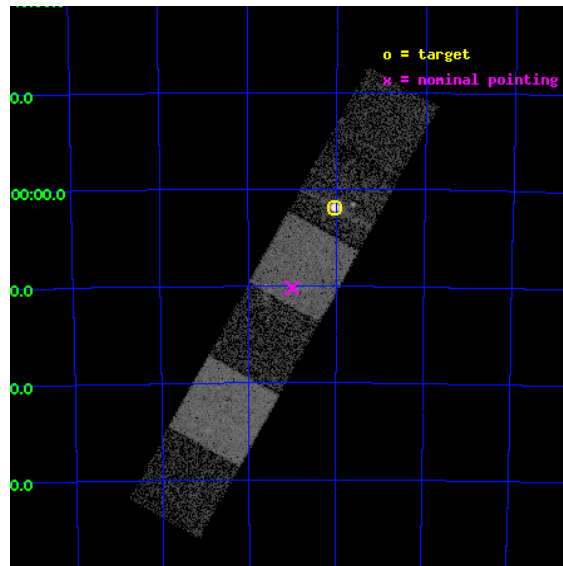
L2 Processing Date : Nov 9 2012

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1 Front

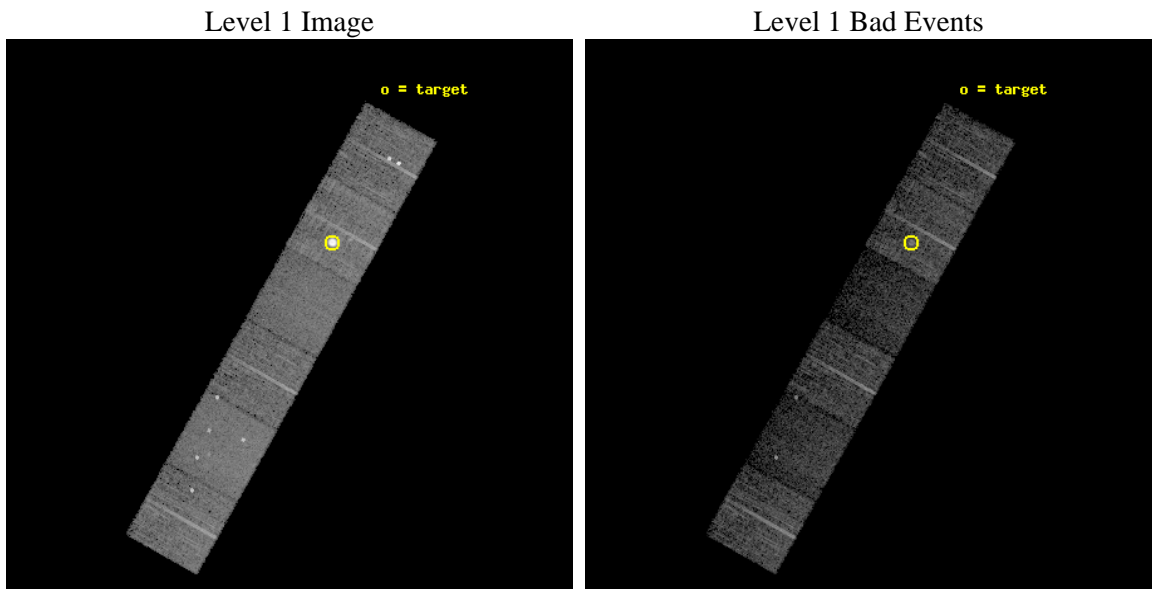
seq_num	590326	Sequence number
obs_id	5128	Observation id
title	AO5A ACIS-S Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S4,-120,-9.15,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.252260529586	Nominal RA [deg]
dec_nom	-72.169802283238	Nominal Dec [deg]
roll_nom	299.2646424333	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8006.3590297997	Sum of GTIs [s]
livetime	7904.9776909137	Livetime [s]
ontime4	8009.5999701619	Sum of GTIs [s]
ontime5	8009.5999701619	Sum of GTIs [s]
ontime6	8009.5999701619	Sum of GTIs [s]
ontime7	8009.5999701619	Sum of GTIs [s]
ontime8	8006.3590297997	Sum of GTIs [s]
ontime9	8009.5999701619	Sum of GTIs [s]
l2events	80636	Number of level 2 events



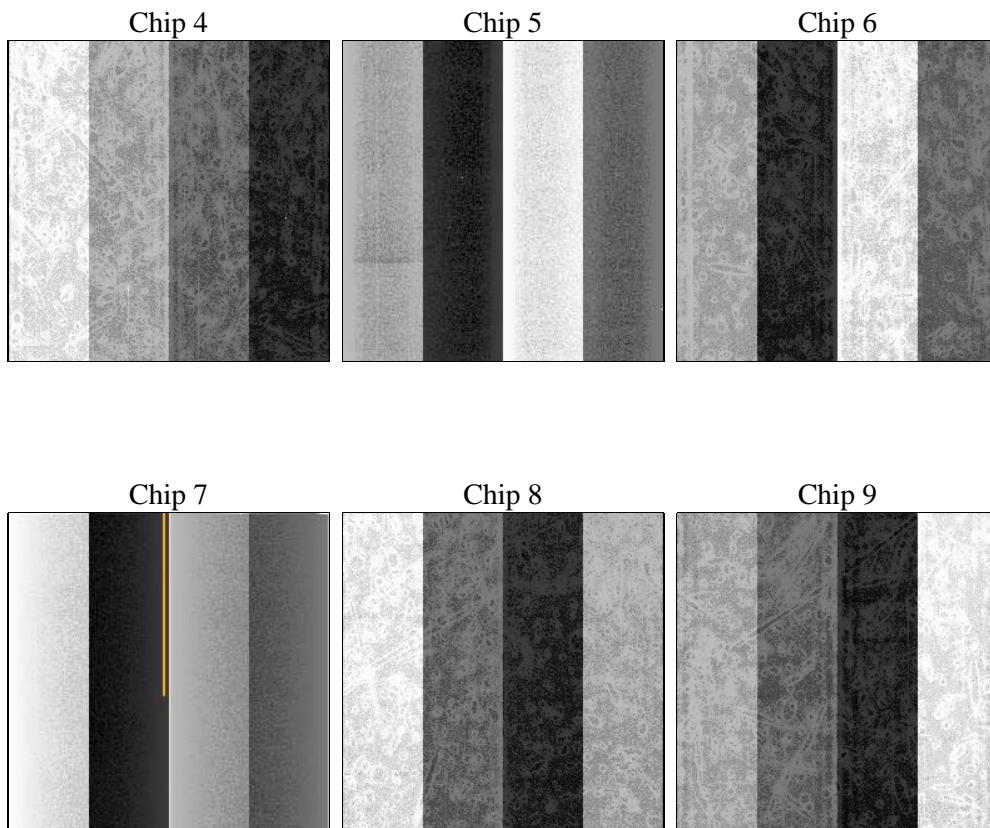
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8250.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8006.3590297997	Sum of GTIs [s]
caldbver	4.5.2	 	ontime4	8009.5999701619	Sum of GTIs [s]
date	2012-11-09T07:44:06	Date and time of file creation	ontime5	8009.5999701619	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	8009.5999701619	Sum of GTIs [s]
			ontime7	8009.5999701619	Sum of GTIs [s]
			ontime8	8006.3590297997	Sum of GTIs [s]
			ontime9	8009.5999701619	Sum of GTIs [s]
			l1events	279360	Number of level 1 events

2.1.4 Events

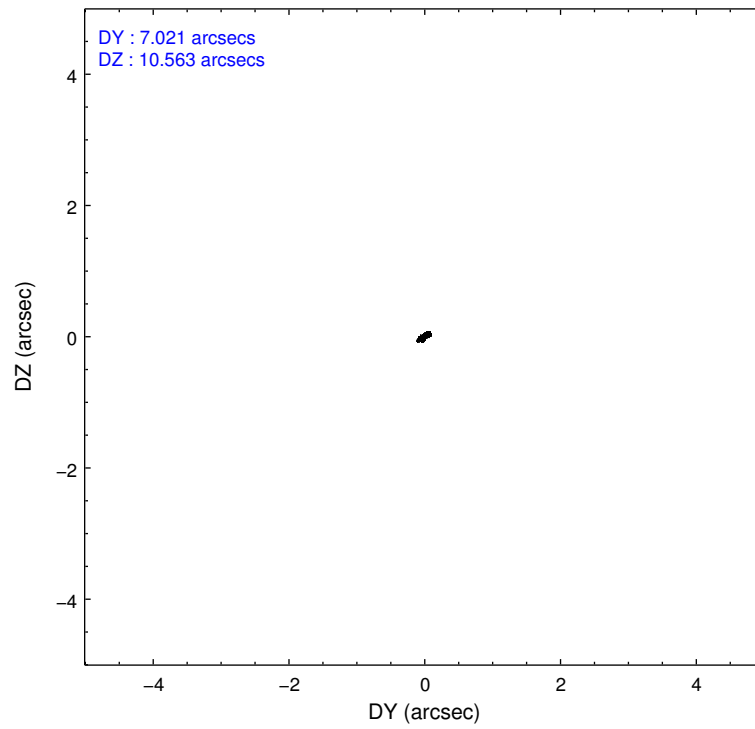
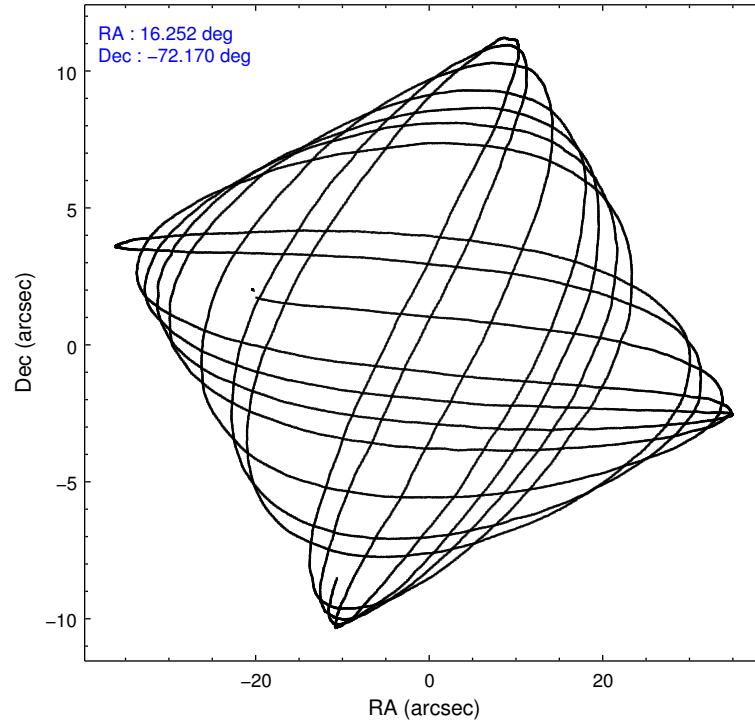
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	43539	48317	35595	36560	73767	41582	grade 0 events	2947	4782	1651	2271	26223	8650
rejected events	38100	21629	31432	17575	37474	30589		6%	9%	4%	6%	35%	20%
rejected %	87%	44%	88%	48%	50%	73%	grade 1 events	35	614	15	34	206	45
								0%	1%	0%	0%	0%	0%
							grade 2 events	1012	7285	810	4057	4124	769
								2%	15%	2%	11%	5%	1%
							grade 3 events	430	1297	487	1868	1487	415
								0%	2%	1%	5%	2%	0%
							grade 4 events	426	1231	412	1833	1407	458
								0%	2%	1%	5%	1%	1%
							grade 5 events	1265	4010	1201	3755	1973	1431
								2%	8%	3%	10%	2%	3%
							grade 6 events	627	12098	805	8963	3100	705
								1%	25%	2%	24%	4%	1%
							grade 7 events	36797	17000	30214	13779	35247	29109
								84%	35%	84%	37%	47%	70%

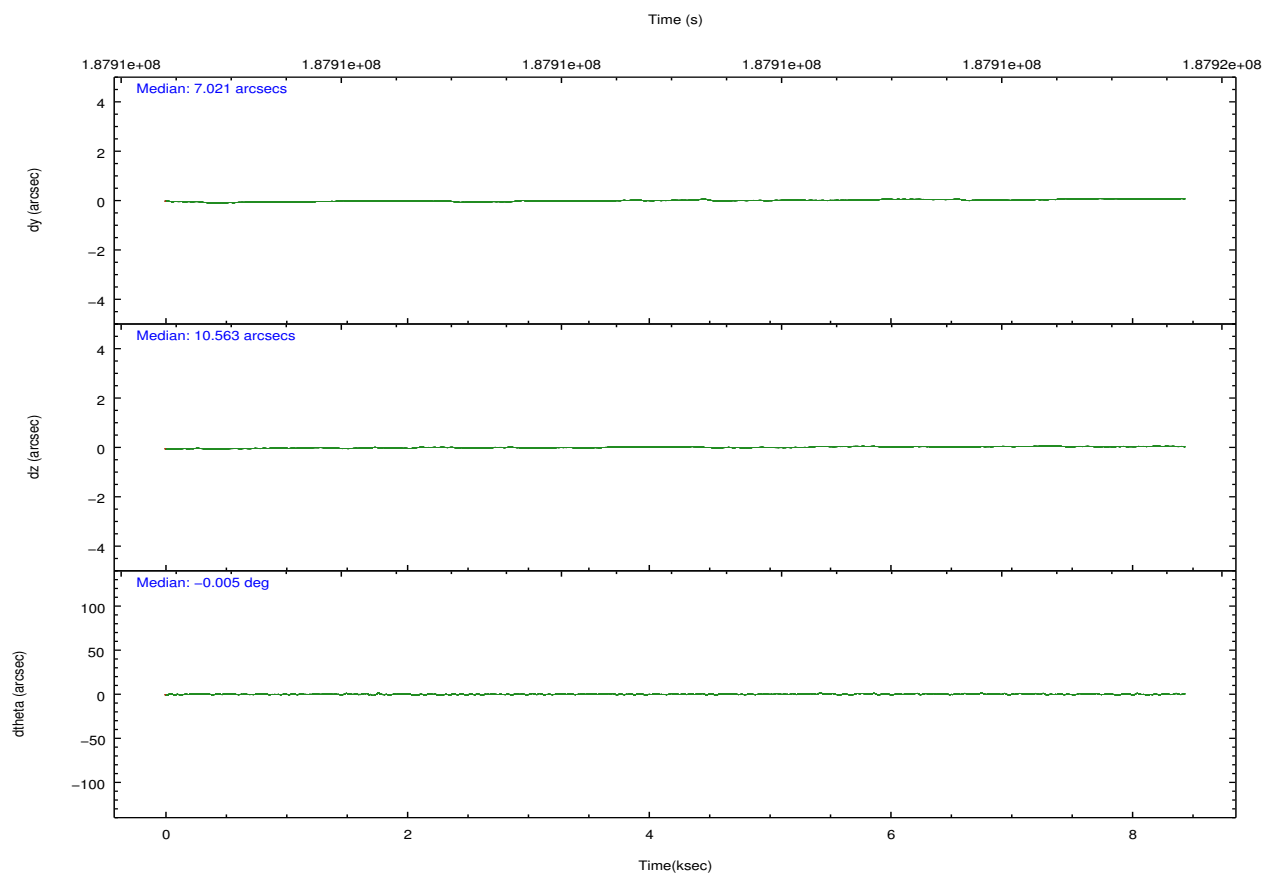
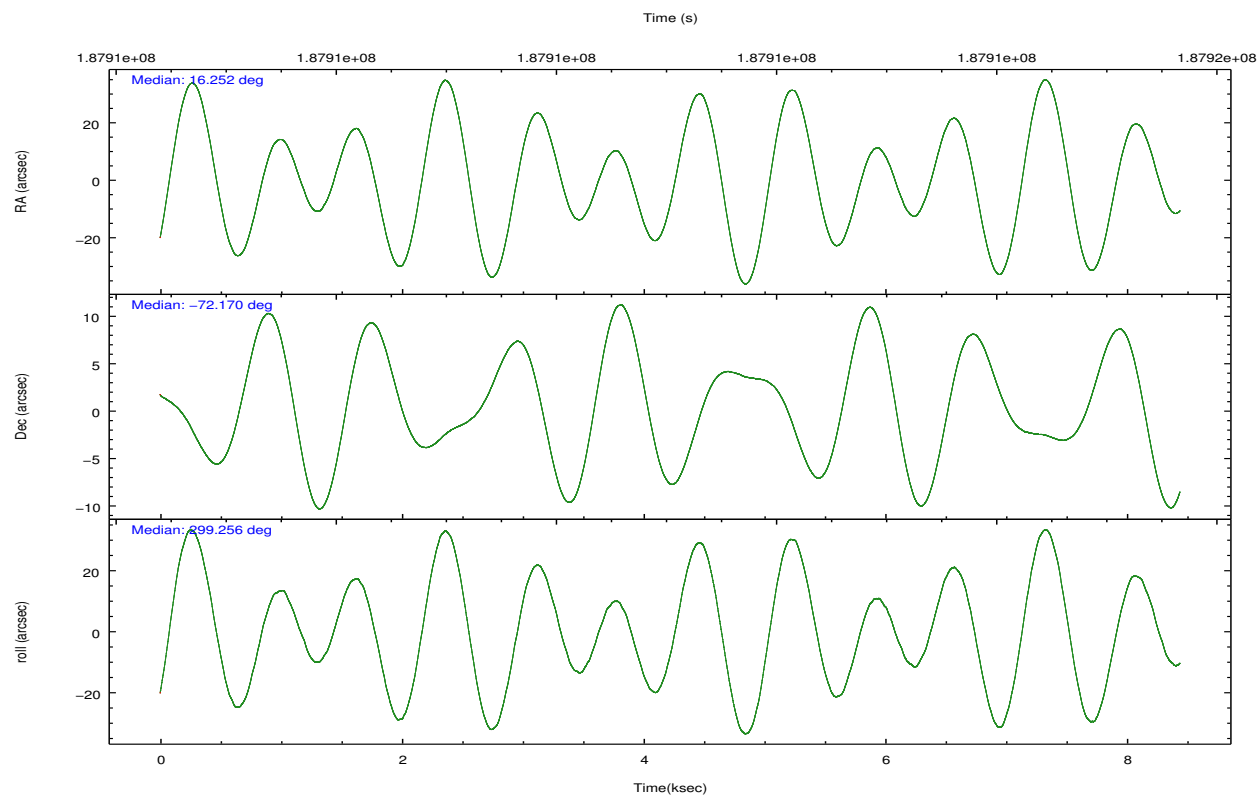
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	16.175119	16.25226052958581
[deg] Pointing Dec	-72.156143	-72.16980228323827
[deg] Pointing Roll	299.034582	299.2646424333013
[s] Window start time (MET)	181353664.184000	181353664.184000
[s] Window stop time (MET)	189216064.184000	189216064.184000
[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)	187906998.184000	187906622.77477
Observation start date	2003-12-15T20:22:14	2003-12-15T20:17:02
[s] Observation end time (MET)	187915248.184000	187915382.93765
Observation end date	2003-12-15T22:39:44	2003-12-15T22:43:02
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



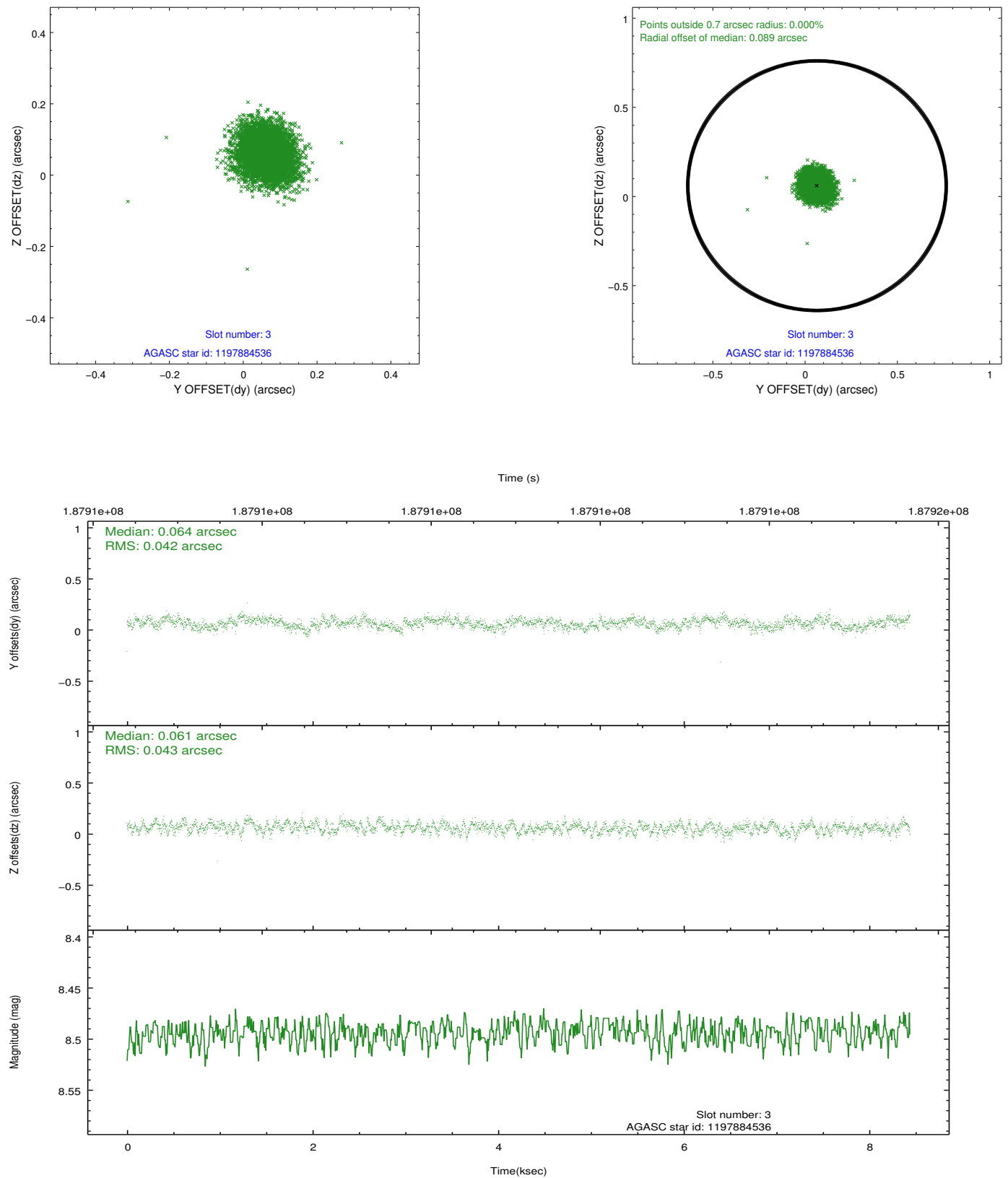


Slot Statistics

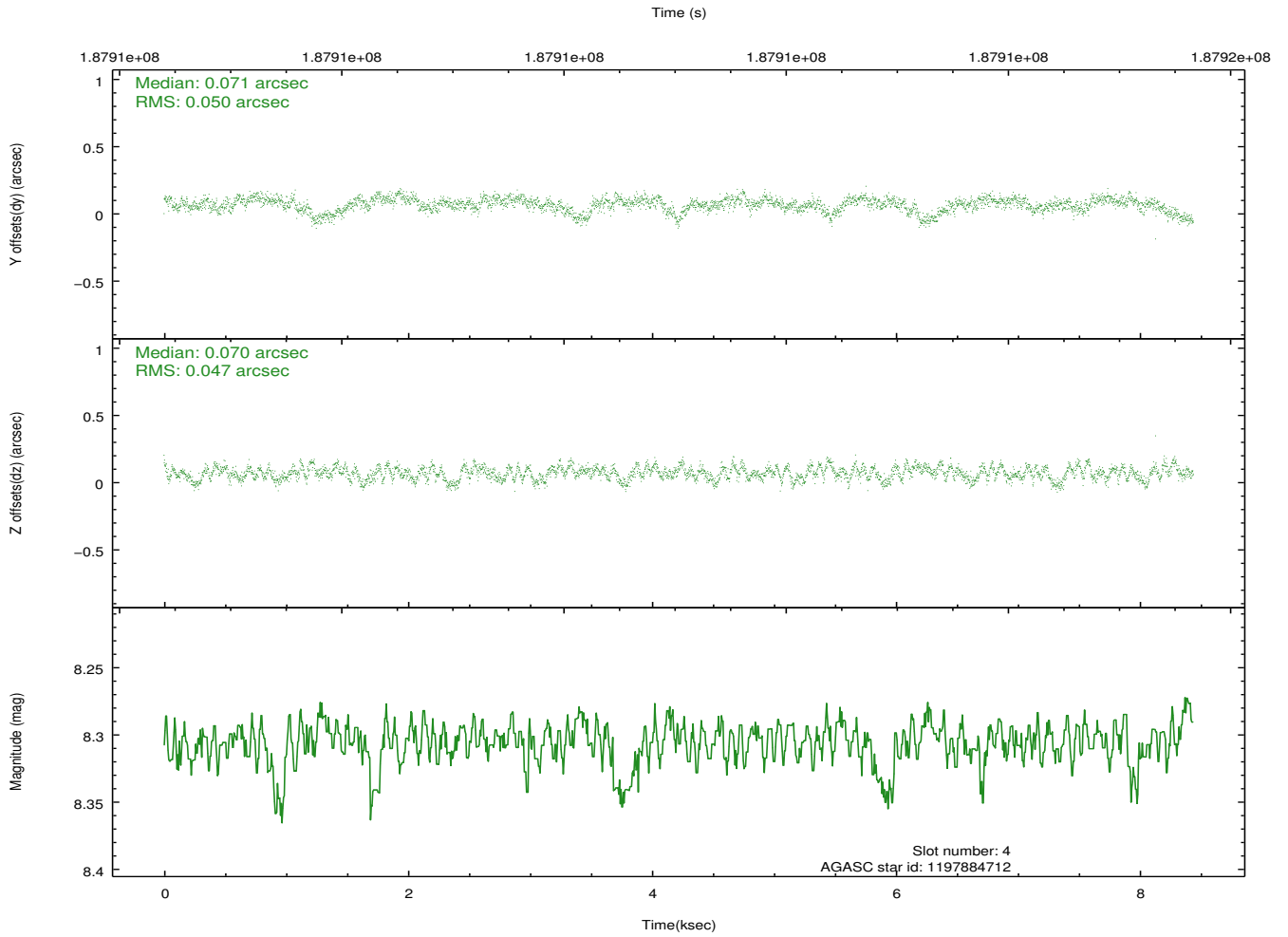
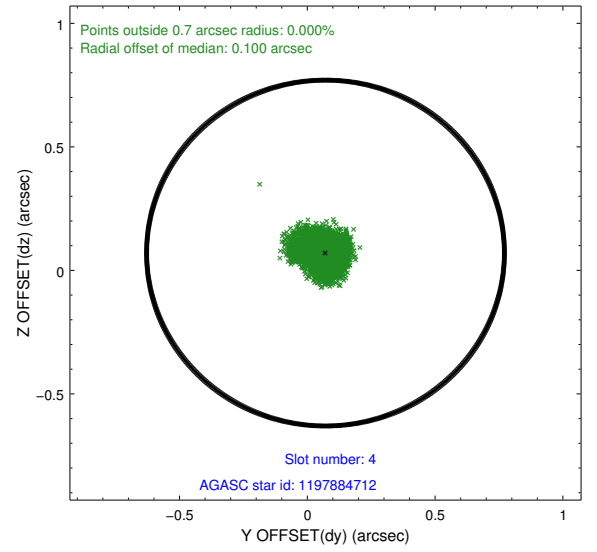
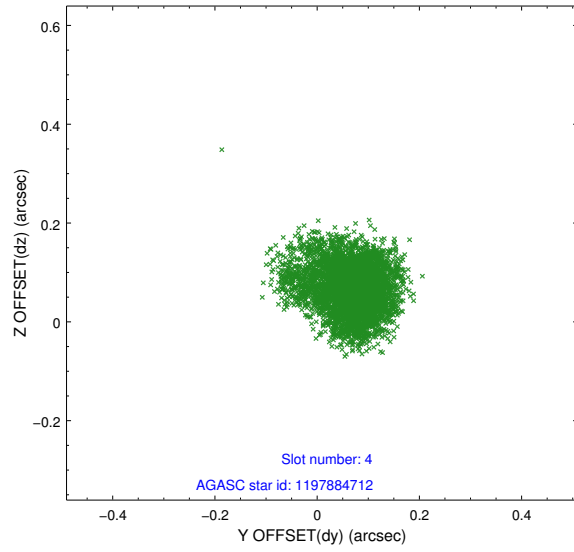
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	2059	0.024	-0.055	0.010	0.017	0.000000	0.000000	936.29	-1727.51
1	FID	ACIS-S-5	7.23	2059	-0.034	0.017	0.012	0.020	0.000000	0.000000	-1812.40	169.45
2	FID	ACIS-S-6	7.34	2059	-0.010	0.049	0.010	0.017	0.000000	0.000000	401.10	814.18
3	GUIDE	1197884536	8.49	4118	0.064	0.061	0.064	0.102	17.160729	-71.835289	-465.29	1523.44
4	GUIDE	1197884712	8.31	4118	0.071	0.070	0.072	0.119	16.087398	-72.252690	257.28	-252.27
5	GUIDE	1197885328	7.23	4118	-0.023	-0.047	0.056	0.088	16.283090	-71.733943	-1269.70	844.46
6	GUIDE	1198189696	7.37	4117	-0.061	-0.021	0.058	0.096	15.223750	-72.697522	1216.74	-1839.90
7	GUIDE	1197750936	7.56	4117	-0.043	-0.063	0.054	0.086	15.387940	-71.549550	-2339.04	272.13

2.4 Star Slots

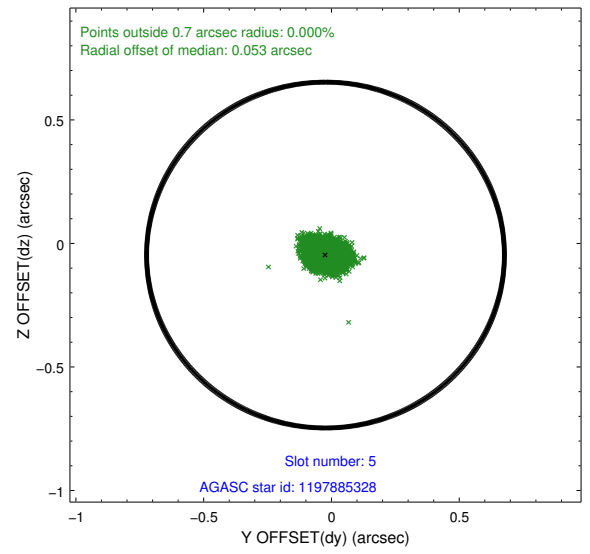
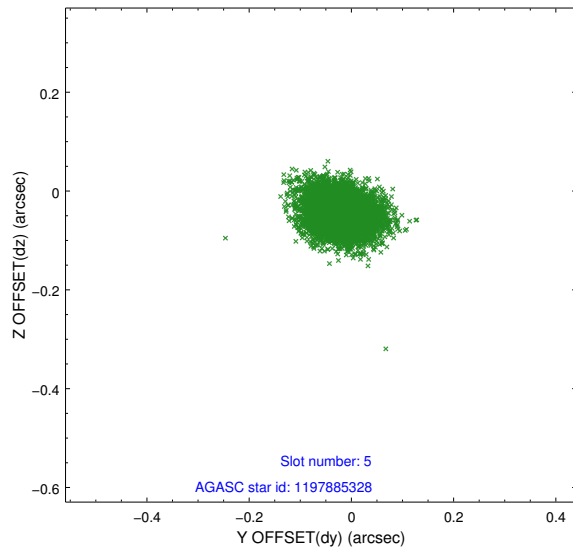
2.4.1 Slot 3



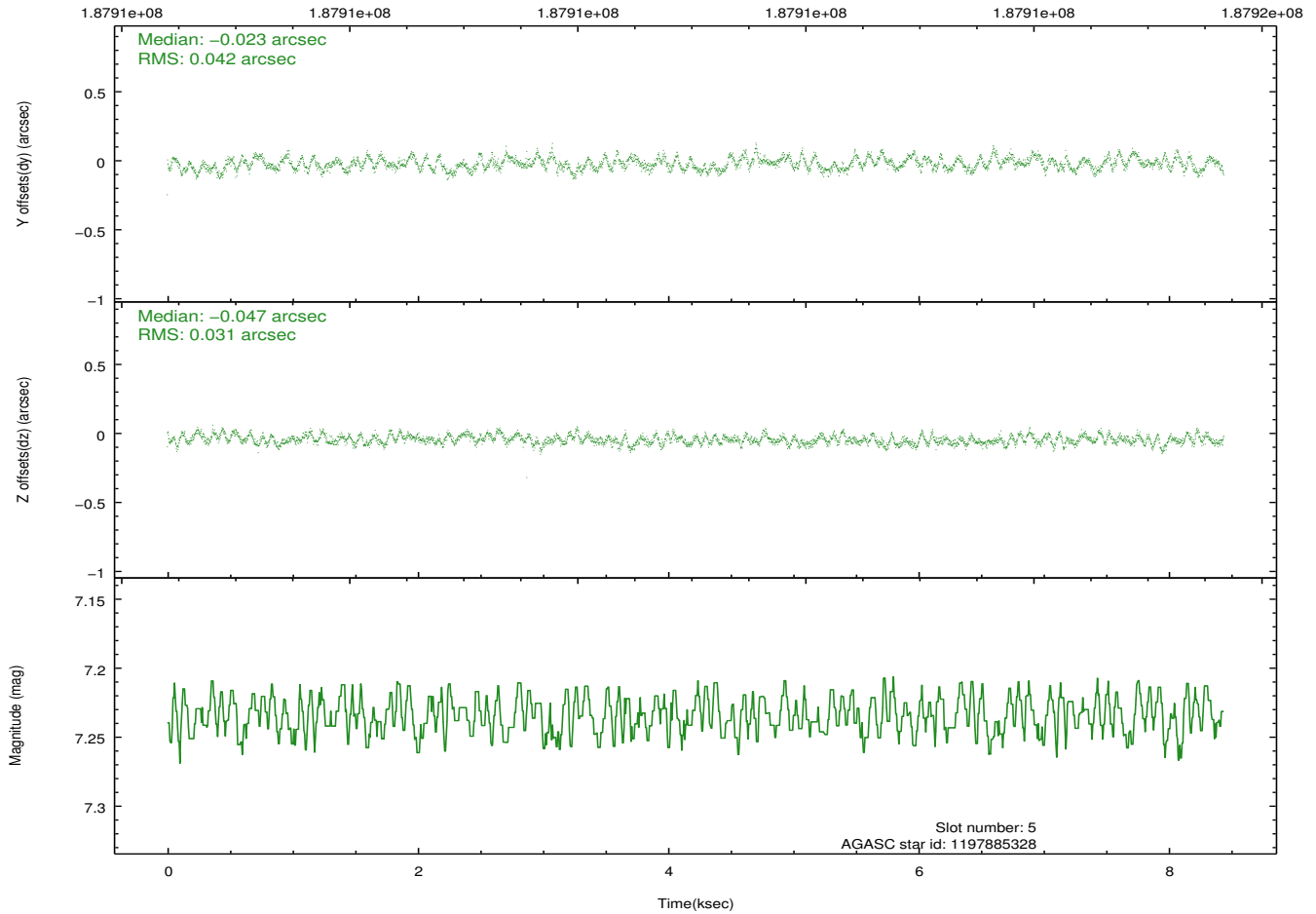
2.4.2 Slot 4



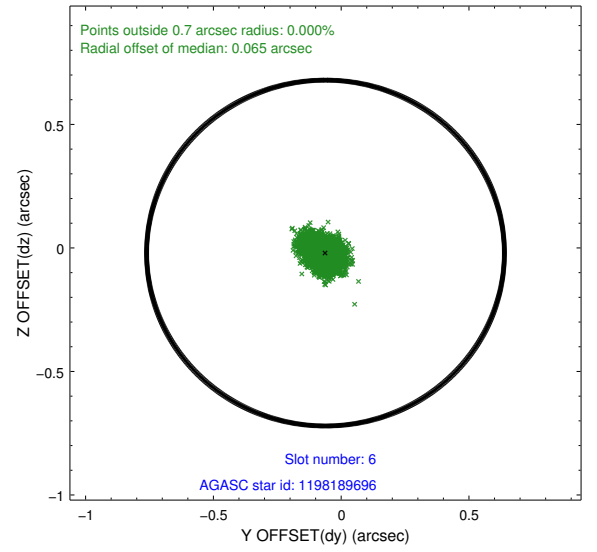
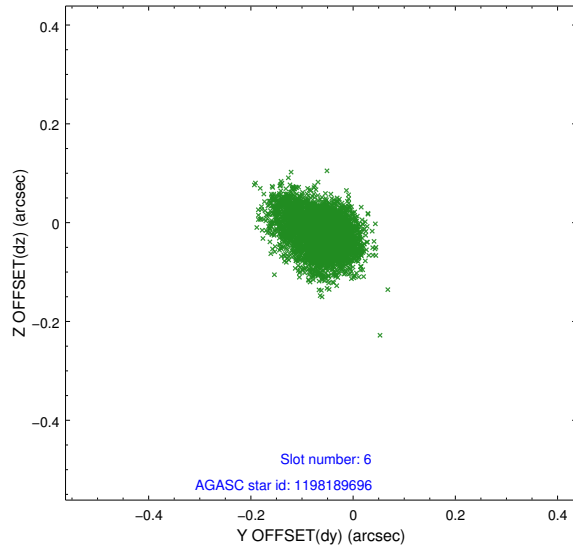
2.4.3 Slot 5



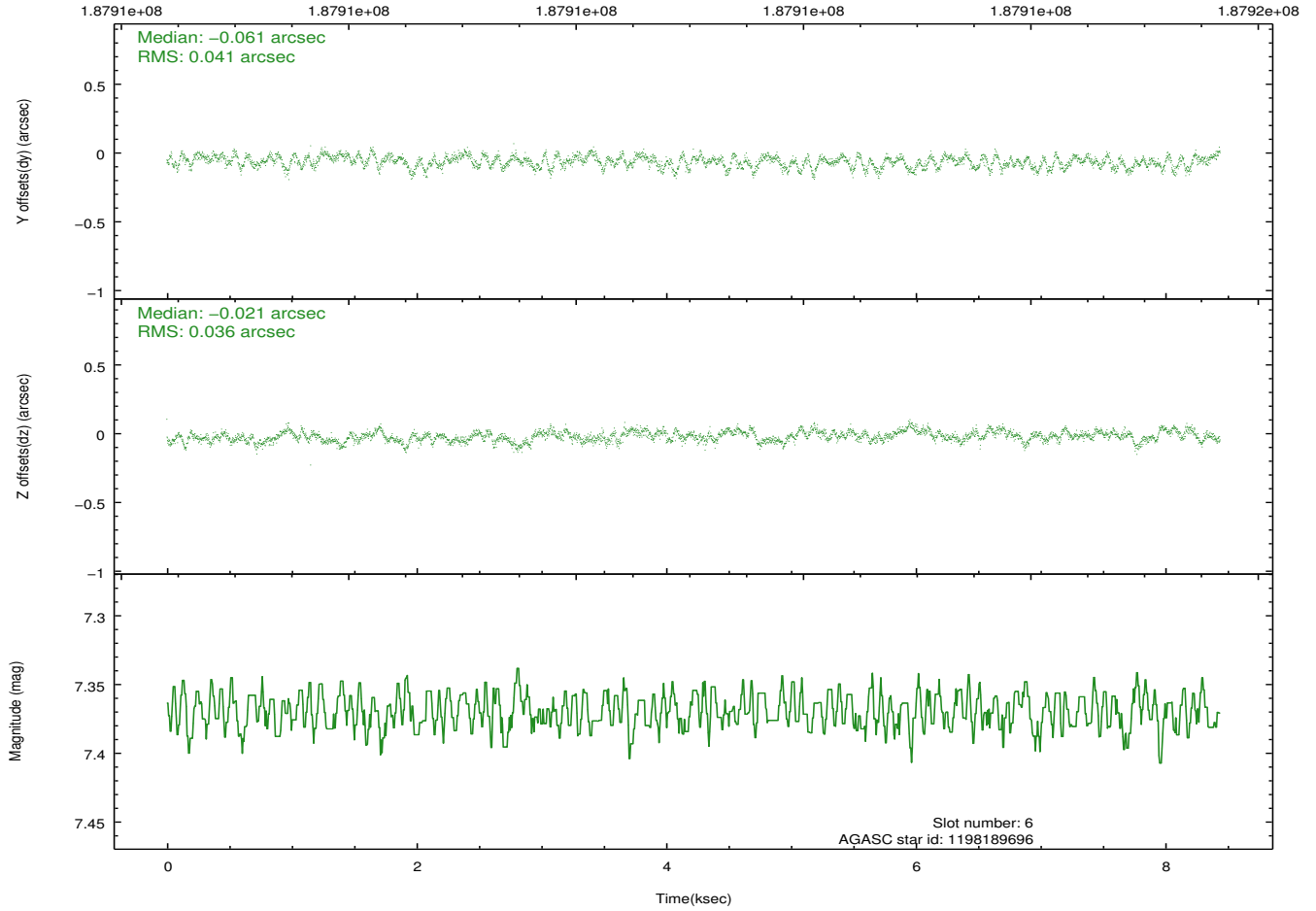
Time (s)



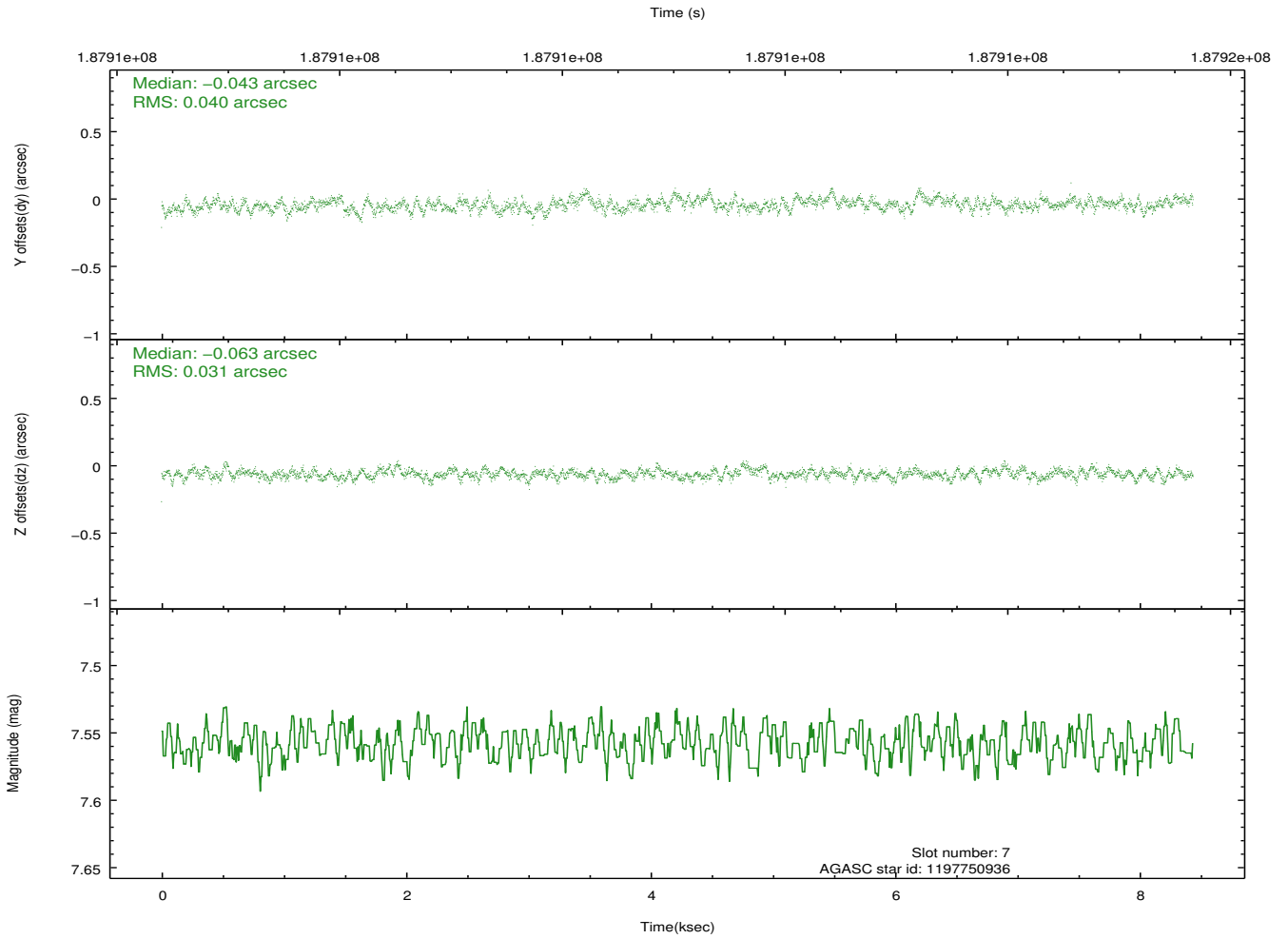
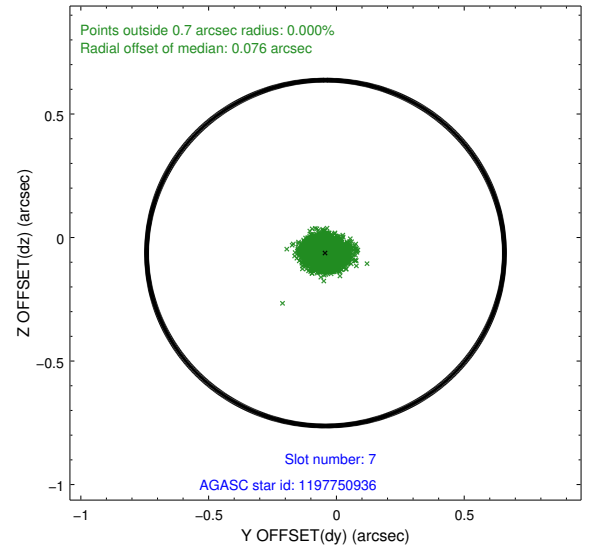
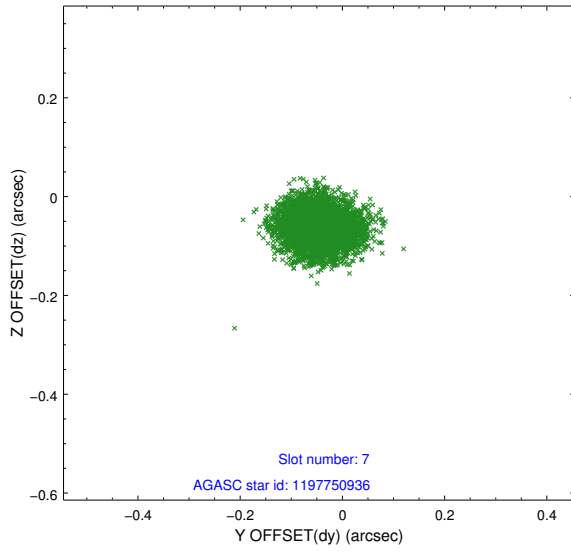
2.4.4 Slot 6



Time (s)

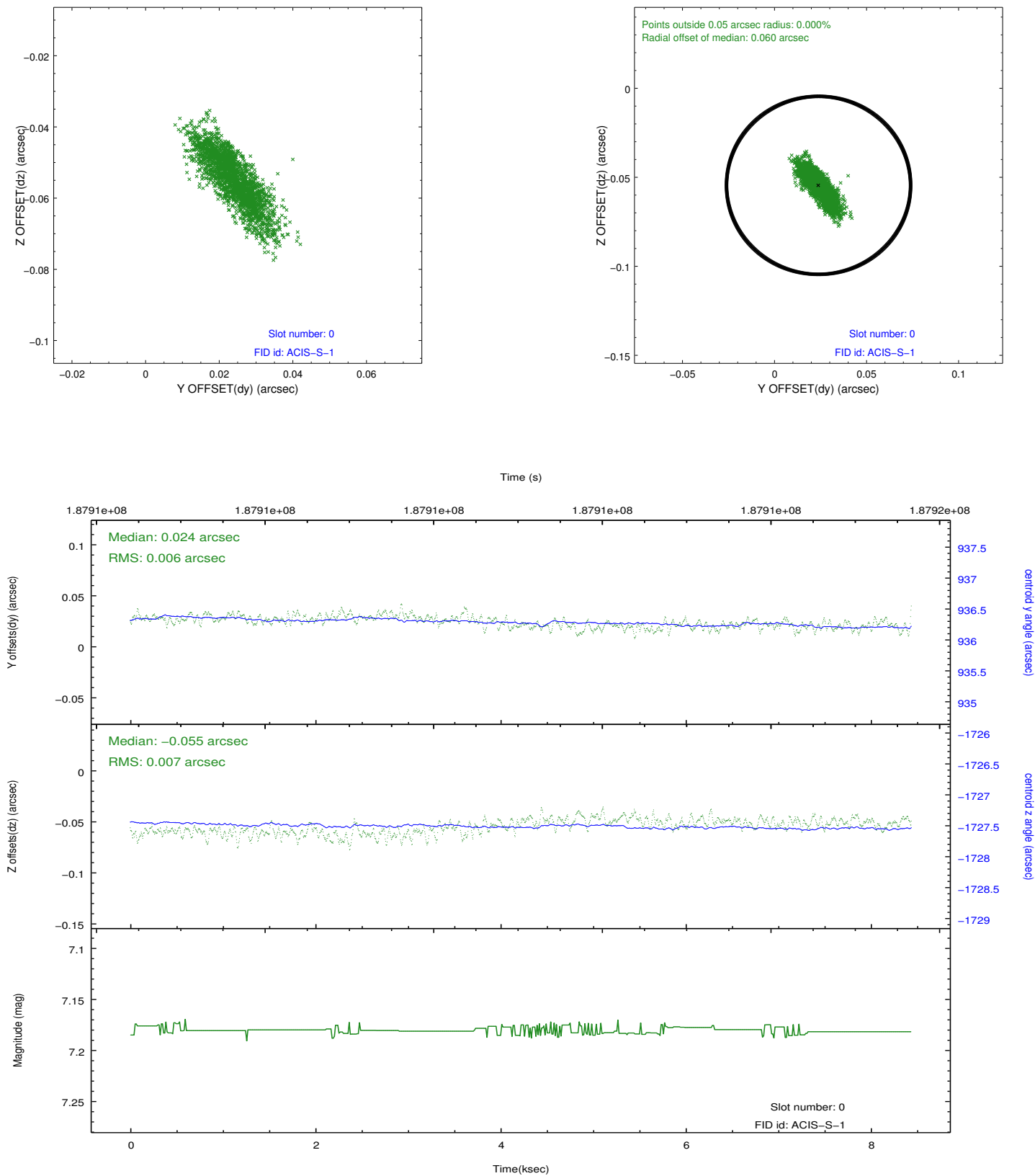


2.4.5 Slot 7

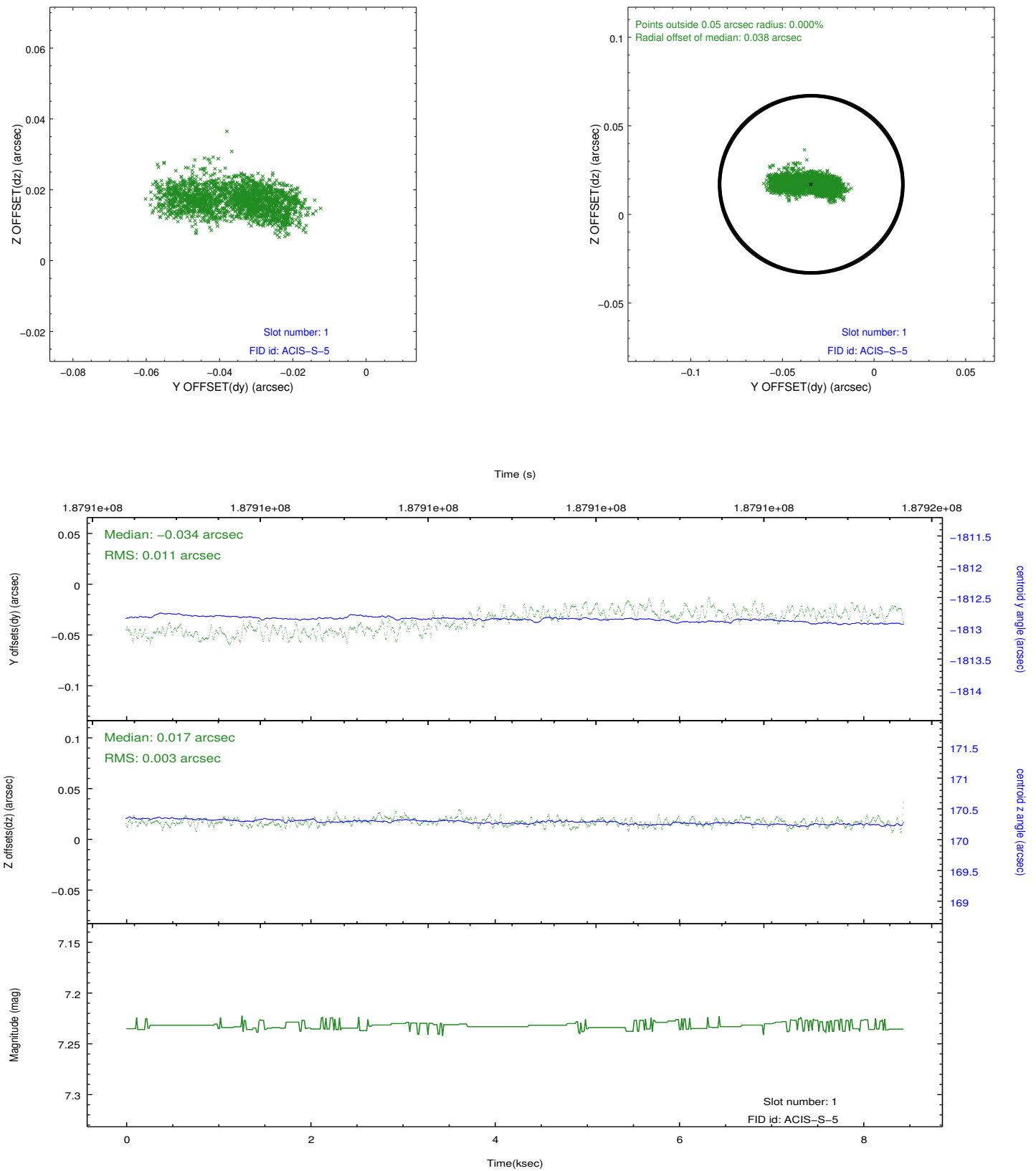


2.5 FID Slots

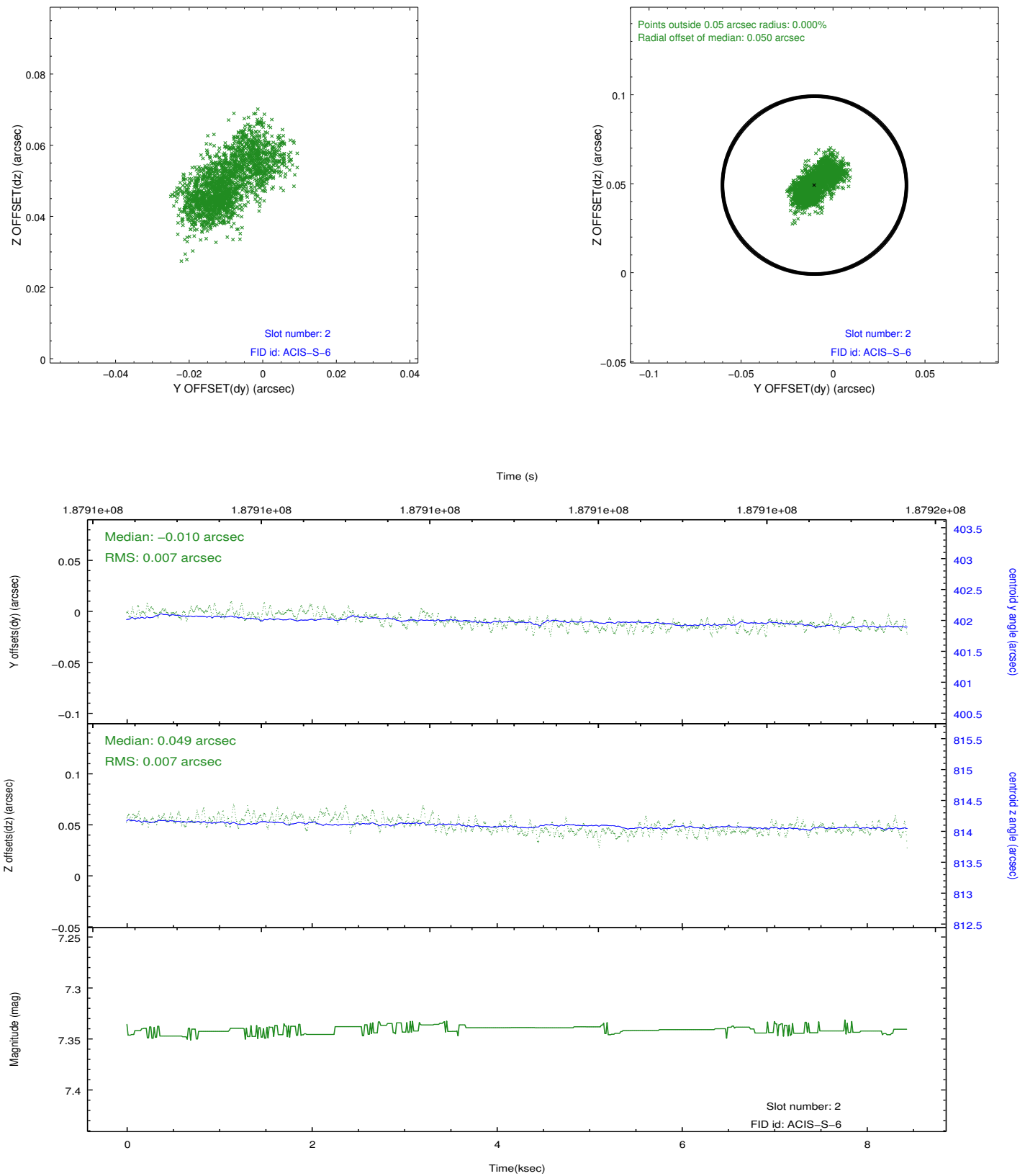
2.5.1 Slot 0



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)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.009

A.2 Comments

Window constraint met.