

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1644 - L2 Version 3
Chandra X-Ray Center

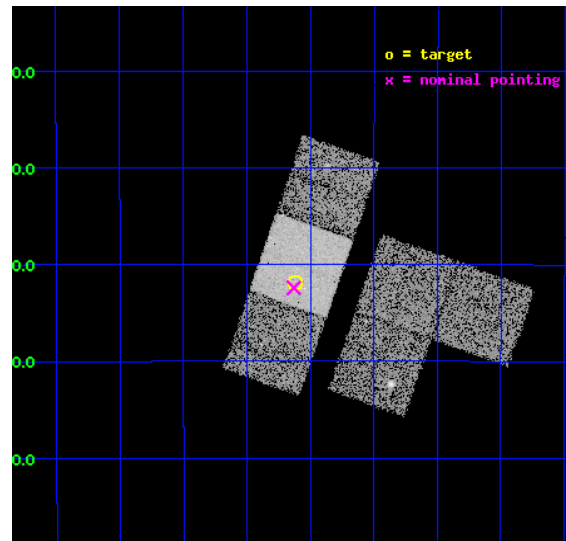
L2 Processing Date : Sep 3 2012

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1 Front

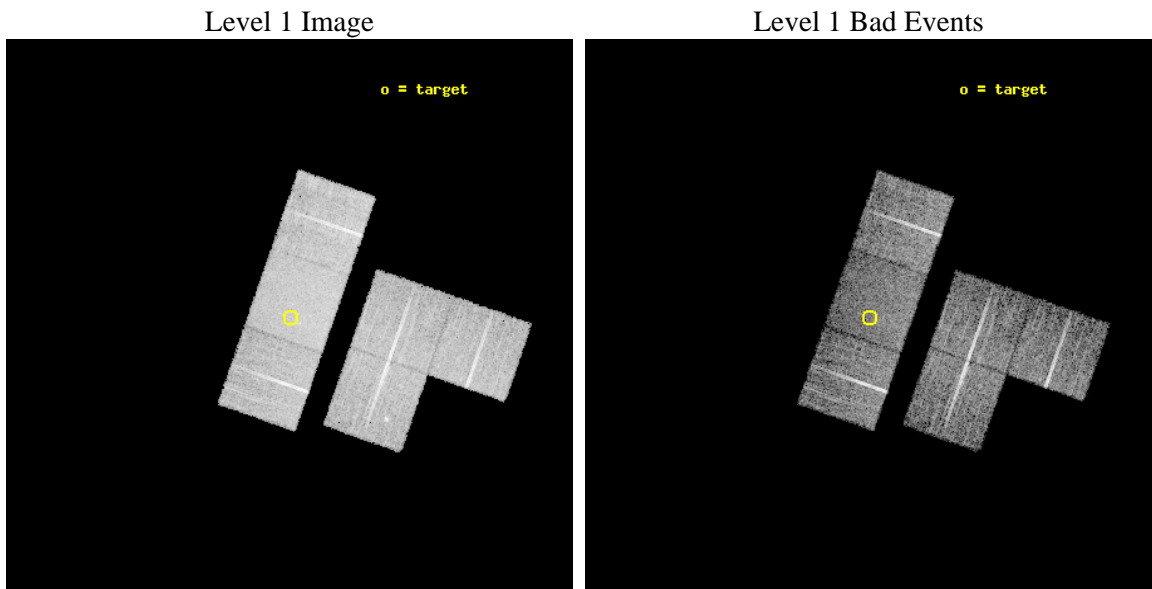
seq_num	700260	Sequence number
obs_id	1644	Observation id
title	CHANDRA OBSERVATIONS OF GRAVITATIONALLY LENSED QUASARS WITH INTRINSIC ABSORPTION	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	HE2149-2745	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	328.030833	Observer's specified target RA [deg]
dec_targ	-27.530556	Observer's specified target Dec [deg]
ra_nom	328.03257200912	Nominal RA [deg]
dec_nom	-27.540321769609	Nominal Dec [deg]
roll_nom	289.24874625284	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9798.2359900773	Sum of GTIs [s]
livetime	9674.1648261815	Livetime [s]
ontime1	9798.2770300806	Sum of GTIs [s]
ontime2	9798.071830079	Sum of GTIs [s]
ontime3	9794.9129199237	Sum of GTIs [s]
ontime6	9798.194950074	Sum of GTIs [s]
ontime7	9798.2359900773	Sum of GTIs [s]
ontime8	9798.1128700823	Sum of GTIs [s]
l2events	62467	Number of level 2 events



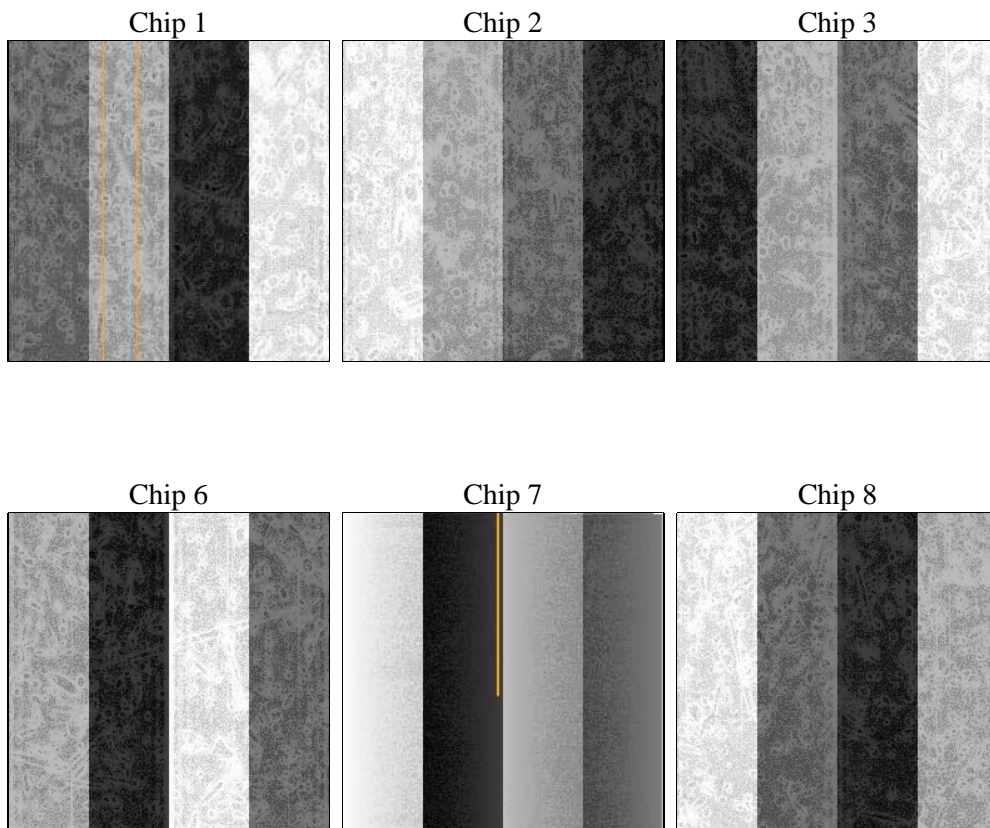
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9845.912000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9798.2359900773	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime1	9798.2770300806	Sum of GTIs [s]
date	2012-09-03T16:13:45	Date and time of file creation	ontime2	9798.071830079	Sum of GTIs [s]
revision	3	Processing version of data	ontime3	9794.9129199237	Sum of GTIs [s]
			ontime6	9798.194950074	Sum of GTIs [s]
			ontime7	9798.2359900773	Sum of GTIs [s]
			ontime8	9798.1128700823	Sum of GTIs [s]
			l1events	374919	Number of level 1 events

2.1.4 Events

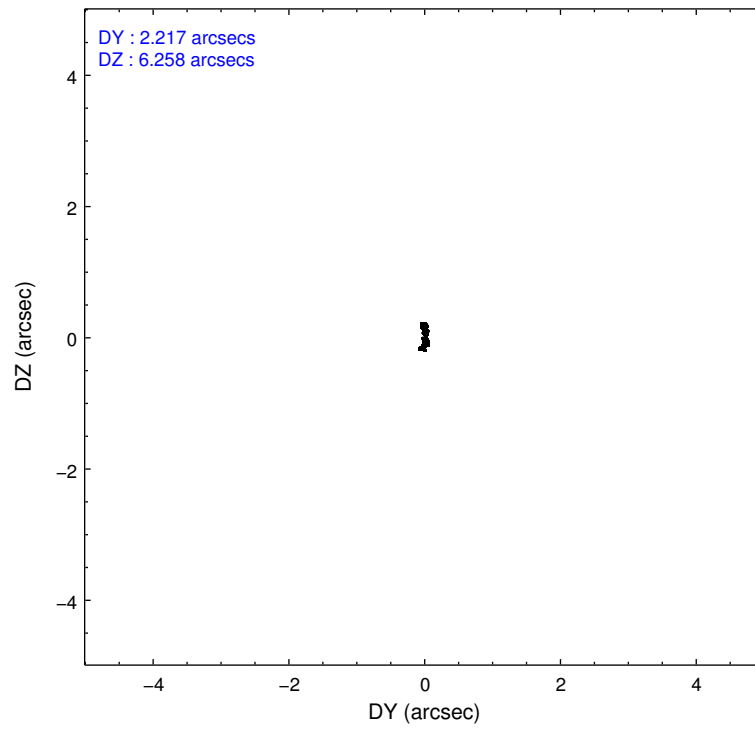
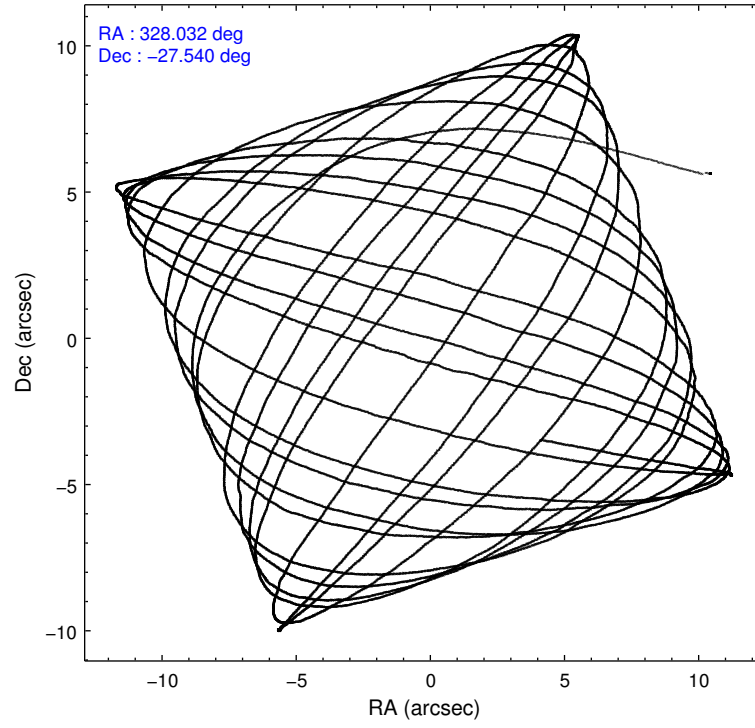
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	54596	56810	56477	58992	75084	72960	grade 0 events	2840	3441	2951	2846	3452	5148
rejected events	47632	49535	49811	52004	42529	57744		5%	6%	5%	4%	4%	7%
rejected %	87%	87%	88%	88%	56%	79%	grade 1 events	24	24	27	20	67	40
								0%	0%	0%	0%	0%	0%
							grade 2 events	1404	1445	1291	1442	6267	3026
								2%	2%	2%	2%	8%	4%
							grade 3 events	696	662	603	670	3144	1766
								1%	1%	1%	1%	4%	2%
							grade 4 events	723	623	630	610	2965	1560
								1%	1%	1%	1%	3%	2%
							grade 5 events	2236	1891	2229	2515	7018	3060
								4%	3%	3%	4%	9%	4%
							grade 6 events	1304	1109	1199	1427	16743	3746
								2%	1%	2%	2%	22%	5%
							grade 7 events	45369	47615	47547	49462	35428	54614
								83%	83%	84%	83%	47%	74%

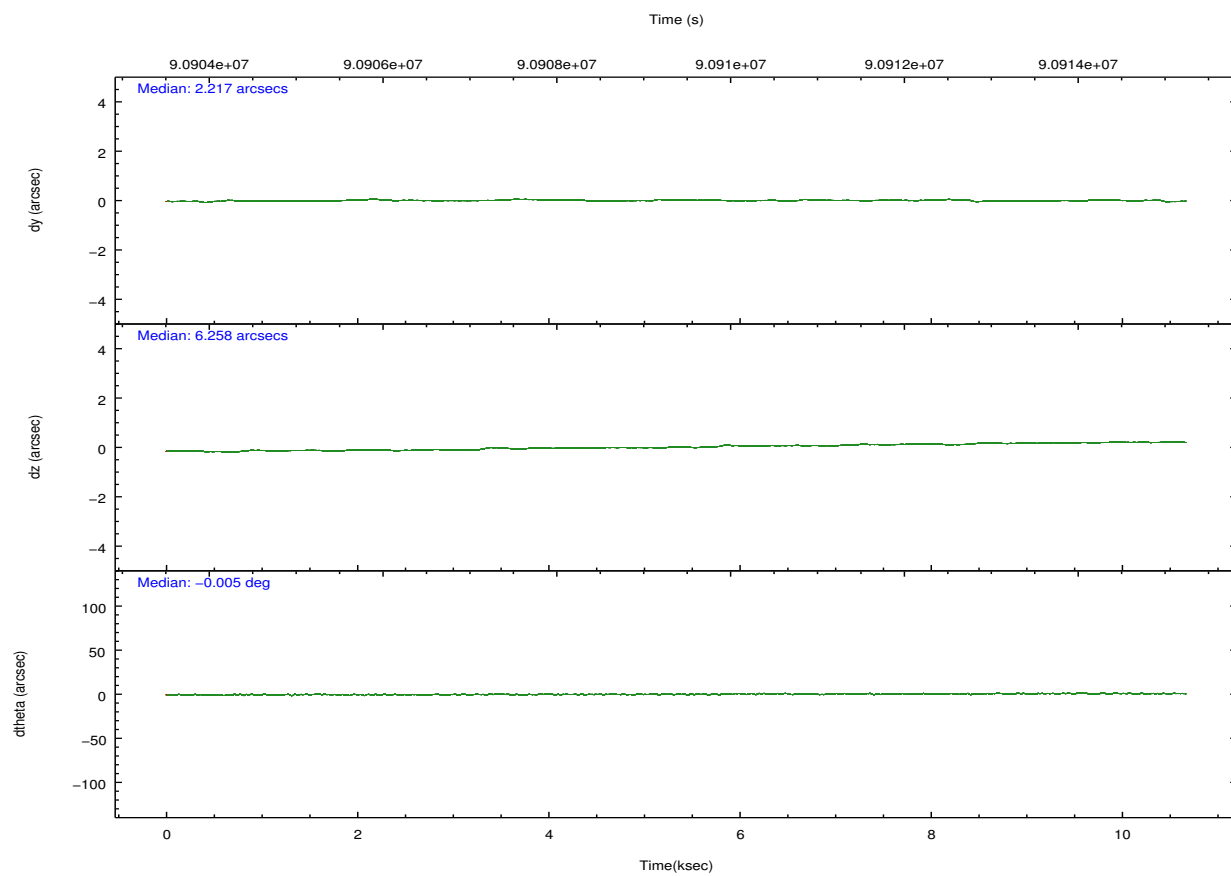
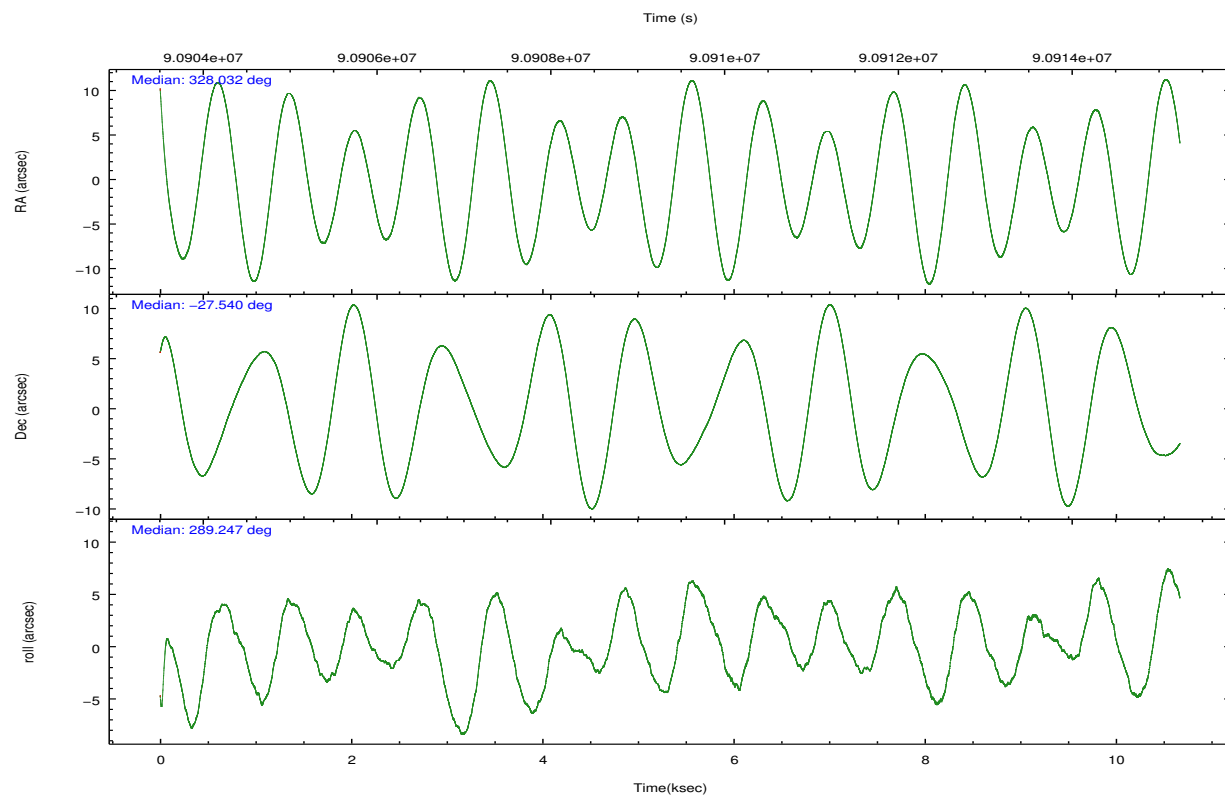
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-123678	ACIS-123678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	328.009034	328.0325720091197
[deg] Pointing Dec	-27.522609	-27.54032176960941
[deg] Pointing Roll	289.081254	289.2487462528354
[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)	90904859.184000	90903582.09386399
Observation start date	2000-11-18T03:19:55	2000-11-18T02:59:42
[s] Observation end time (MET)	90914705.184000	90915019.55680101
Observation end date	2000-11-18T06:04:01	2000-11-18T06:10:19
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



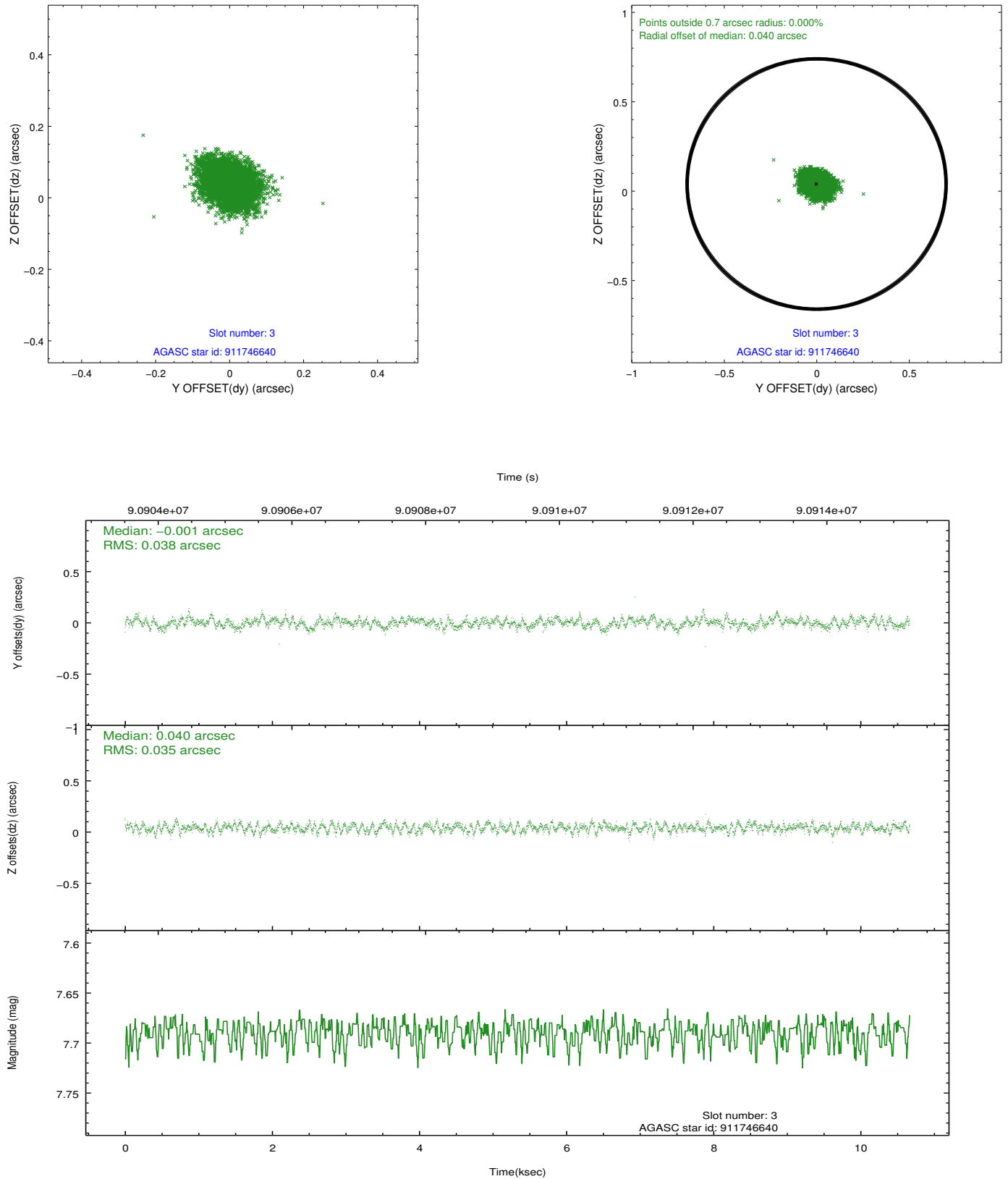


Slot Statistics

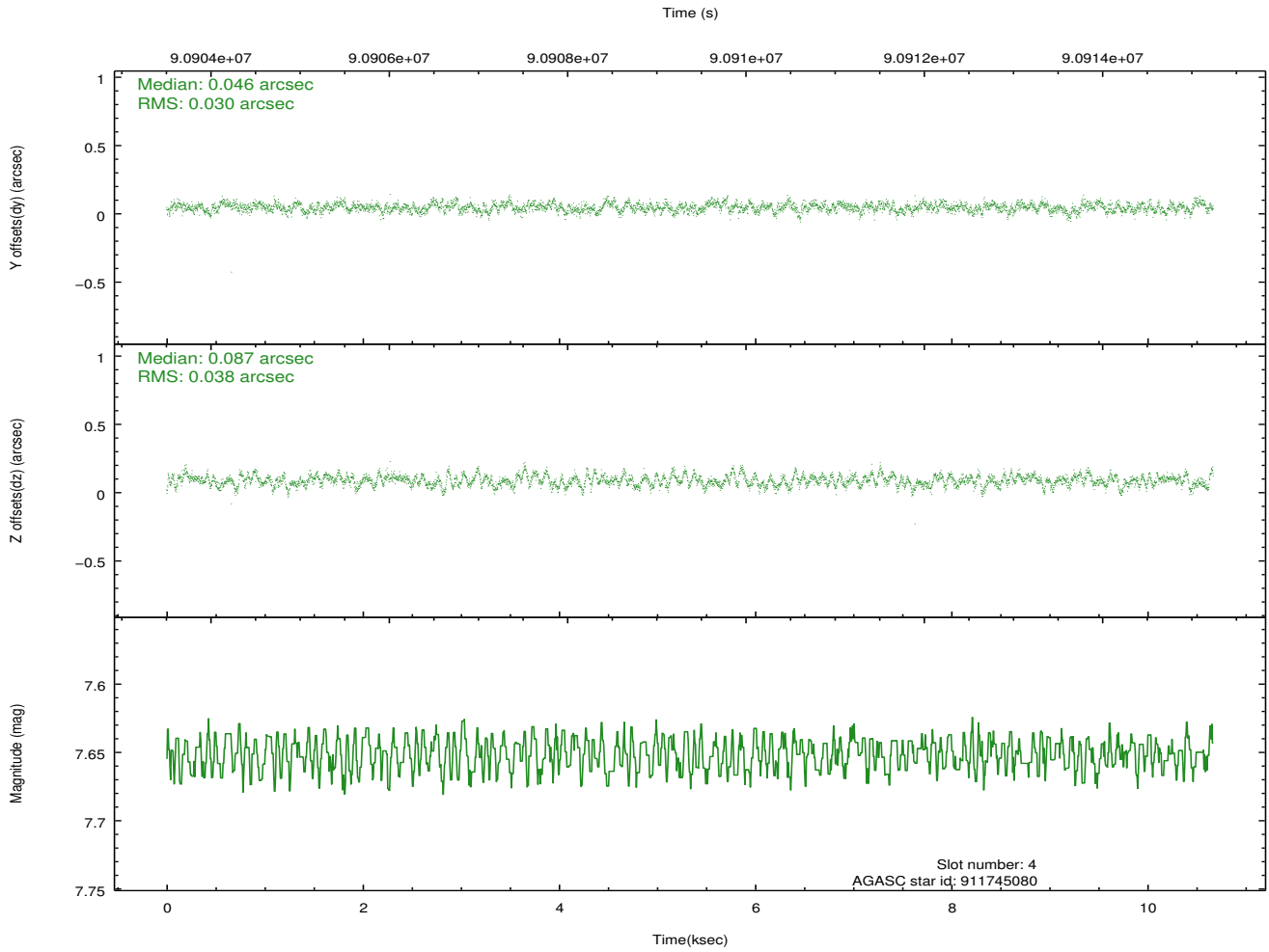
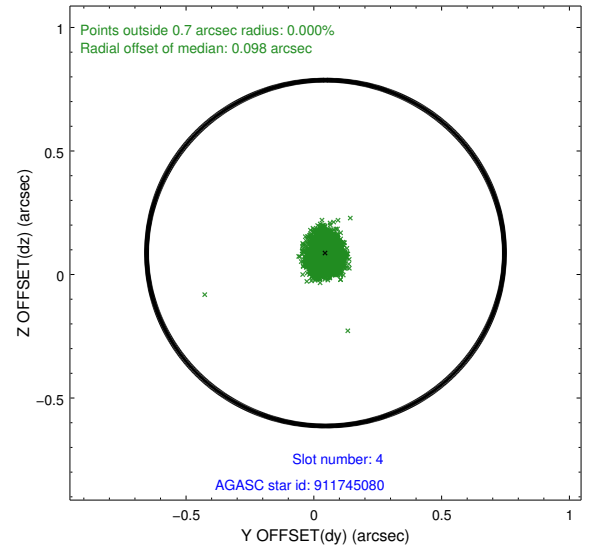
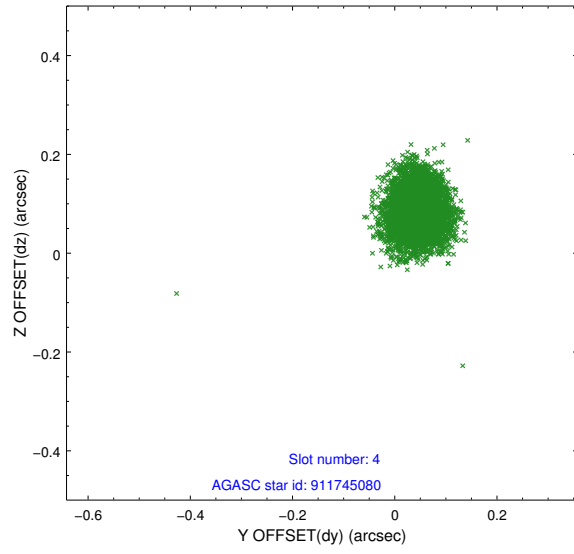
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2603	-0.038	0.002	0.007	0.012	0.000000	0.000000	-754.86	-1727.43
1	FID	ACIS-S-4	7.21	2603	-0.011	0.018	0.006	0.011	0.000000	0.000000	2158.21	180.60
2	FID	ACIS-S-5	7.24	2603	0.017	-0.011	0.007	0.011	0.000000	0.000000	-1807.03	174.75
3	GUIDE	911746640	7.69	5205	-0.001	0.040	0.054	0.089	328.120982	-27.315217	-586.98	583.02
4	GUIDE	911745080	7.65	5205	0.046	0.087	0.051	0.084	327.881685	-27.399142	-551.55	-238.64
5	GUIDE	911745704	8.45	5198	-0.059	0.083	0.056	0.089	328.153775	-27.104100	-1270.75	931.40
6	GUIDE	911739752	8.79	5202	-0.322	-0.203	0.072	0.113	327.086125	-27.144025	-2243.36	-2351.72
7	GUIDE	912135304	9.51	5197	0.335	-0.004	0.117	0.192	327.849640	-28.255842	2331.07	-1340.57

2.4 Star Slots

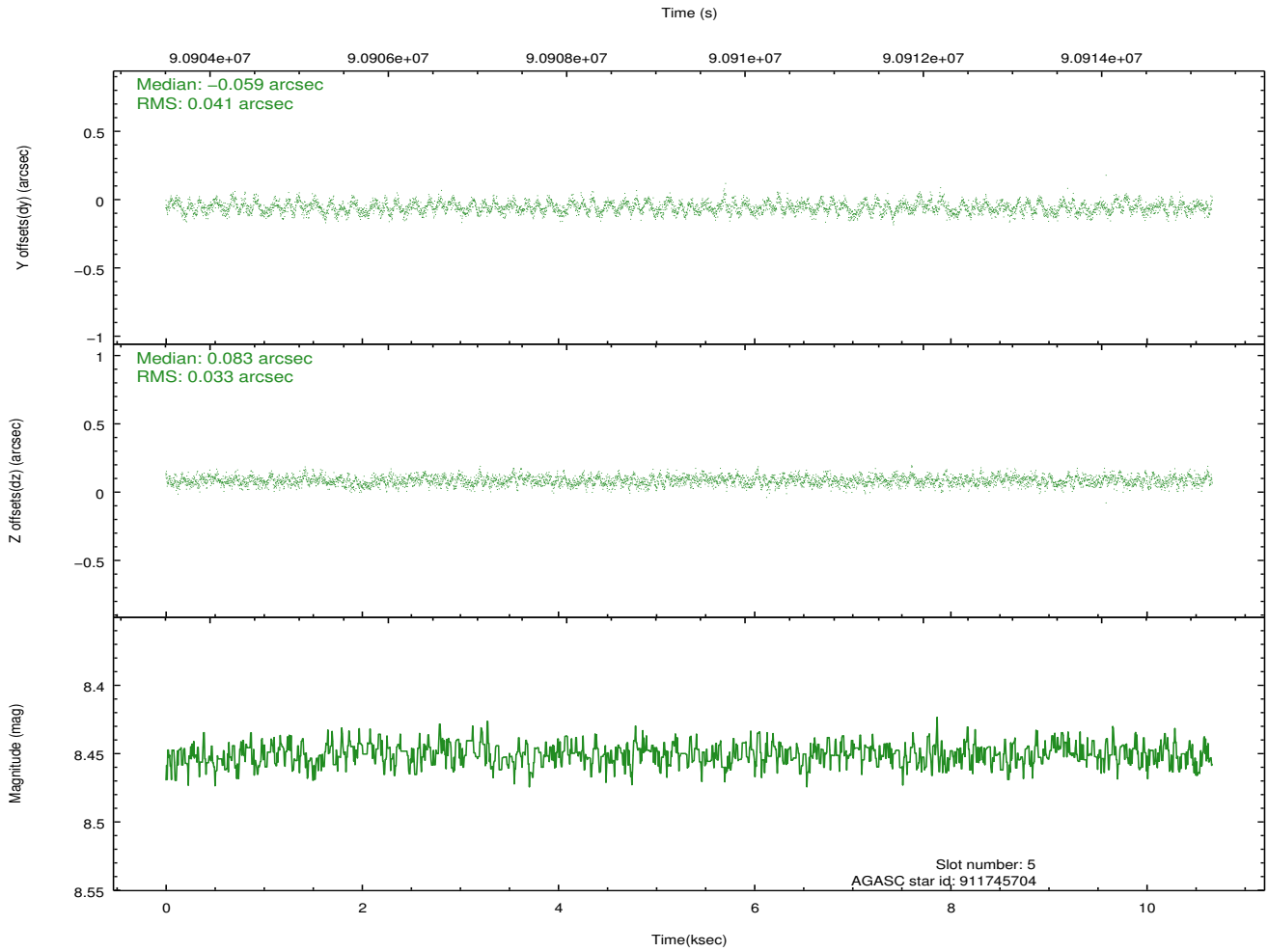
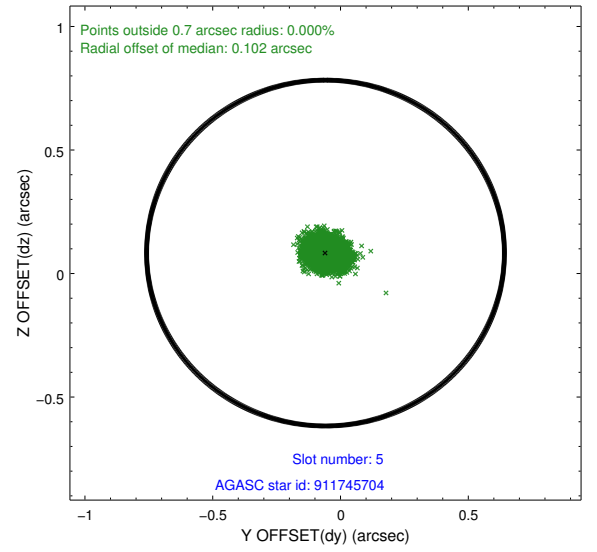
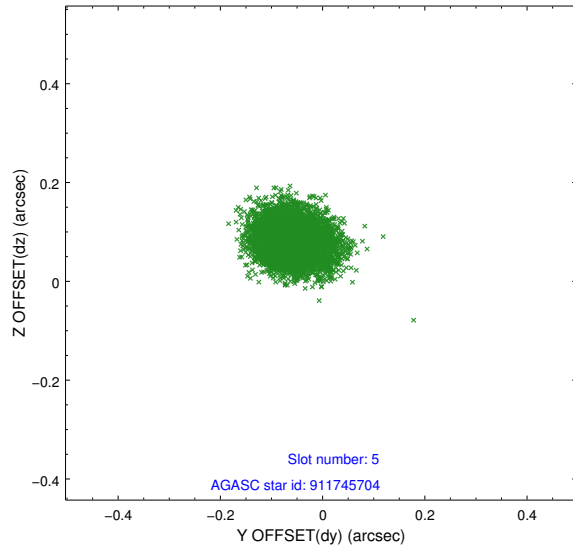
2.4.1 Slot 3



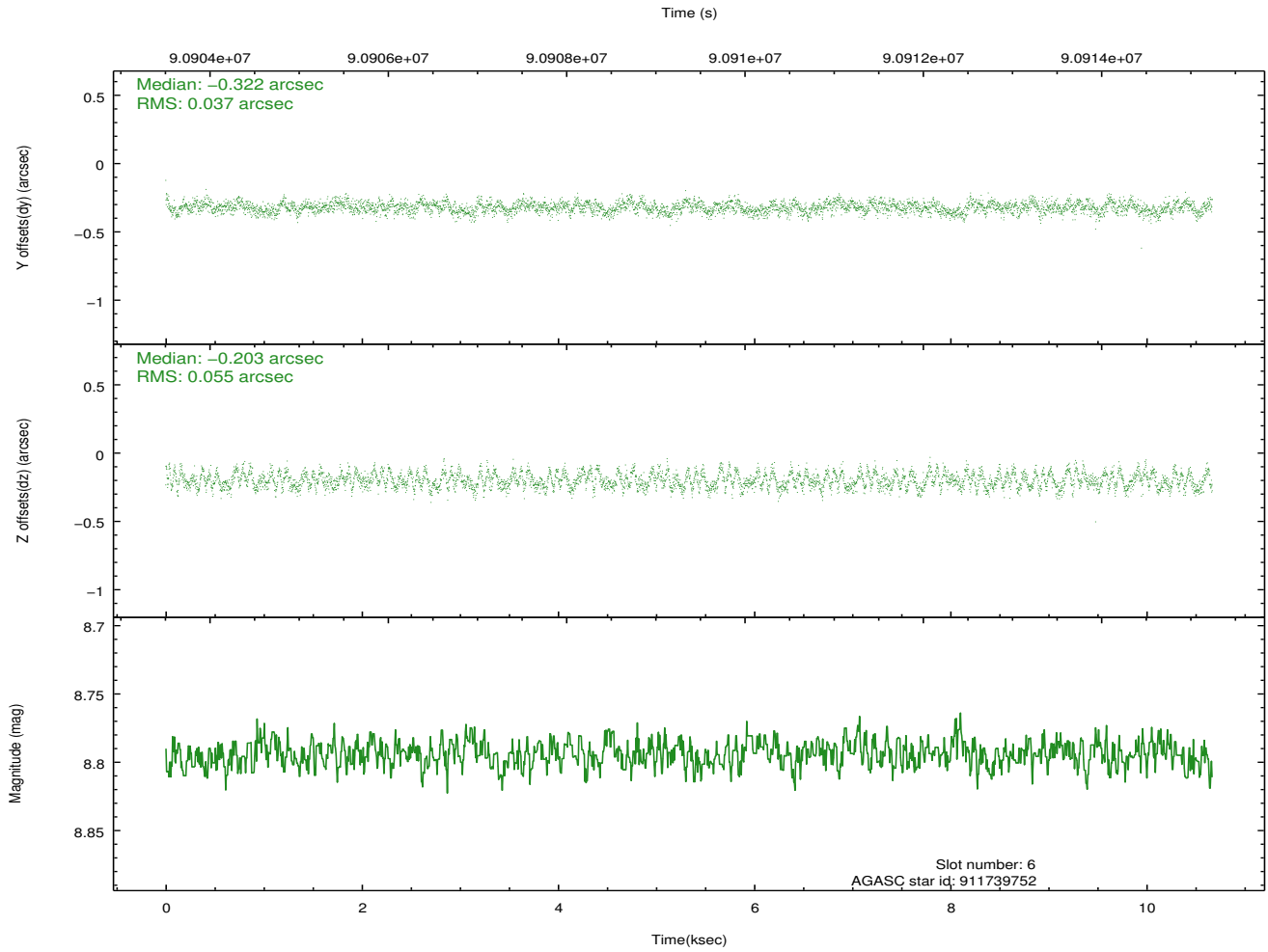
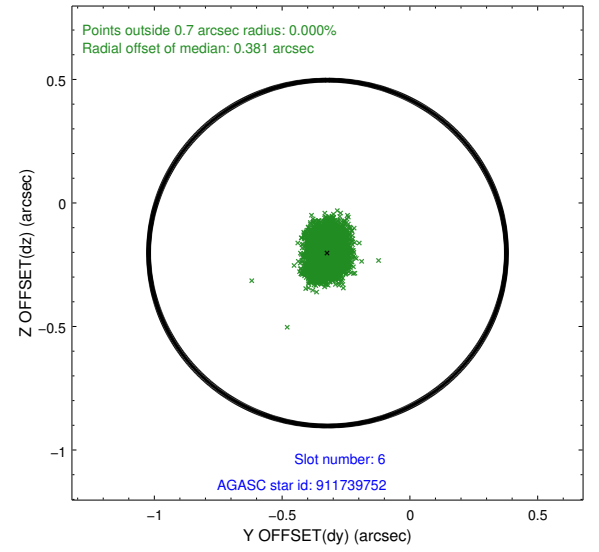
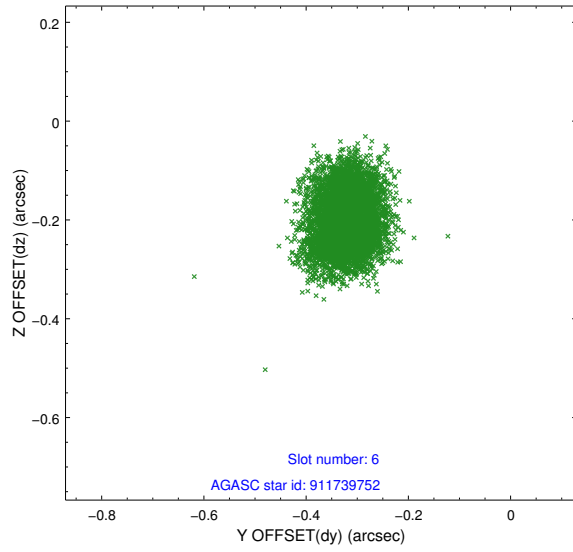
2.4.2 Slot 4



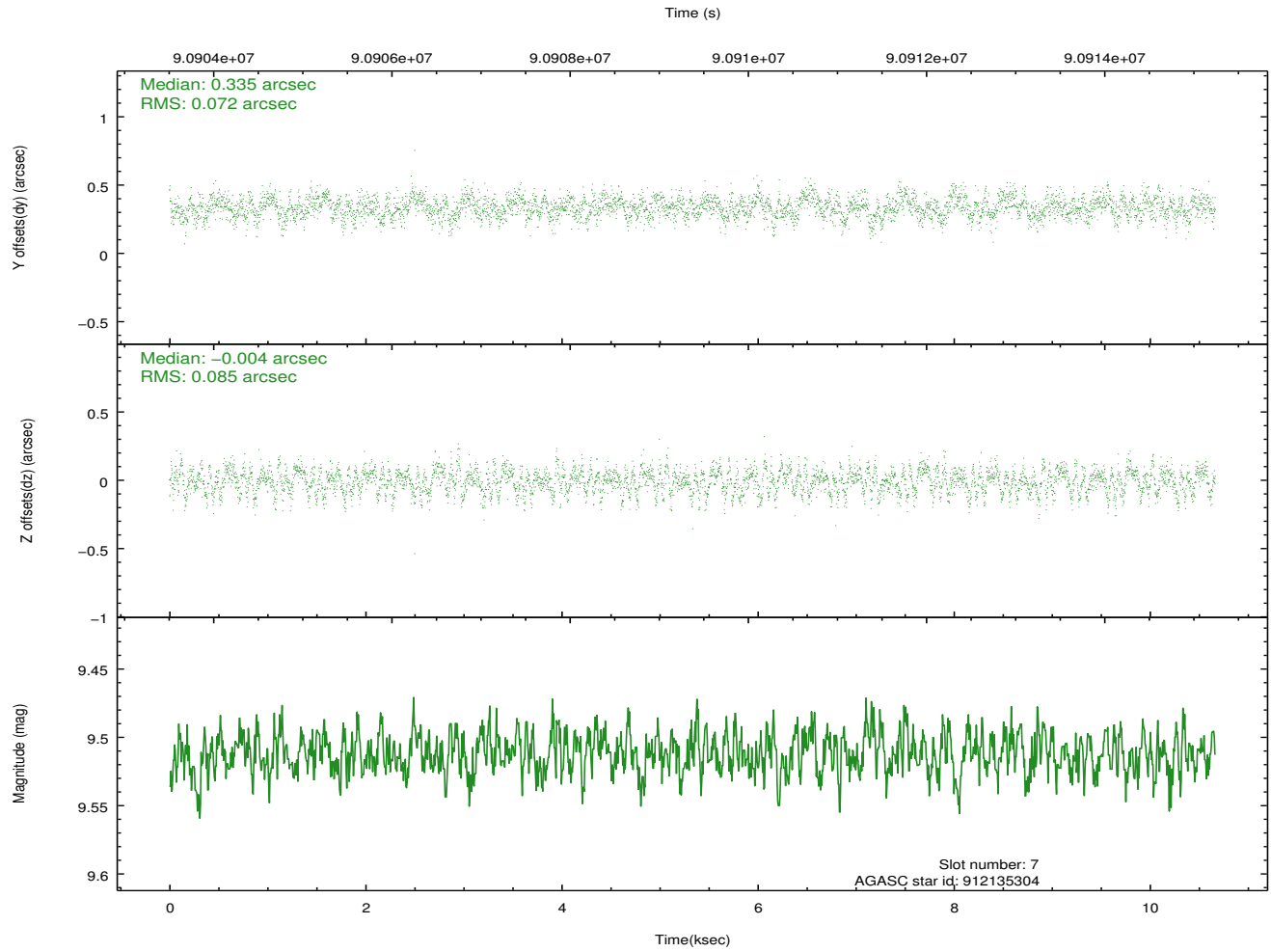
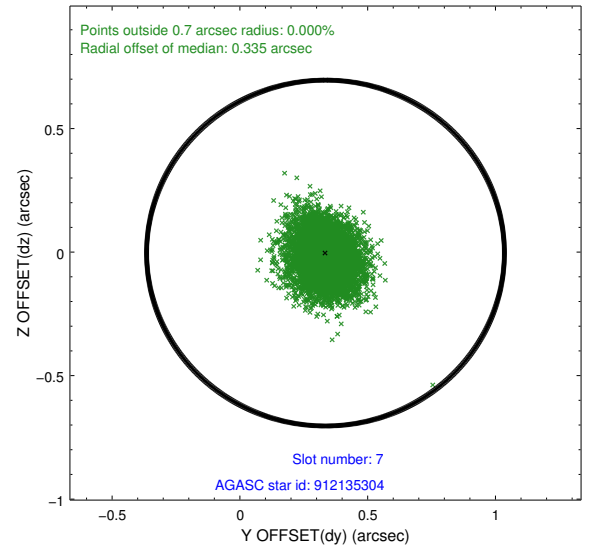
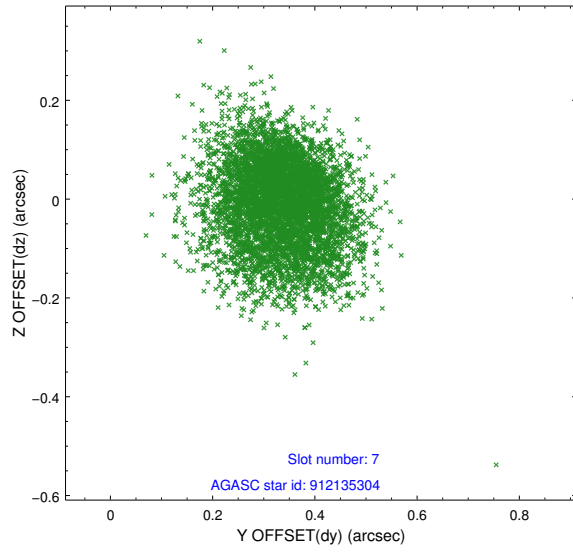
2.4.3 Slot 5



2.4.4 Slot 6

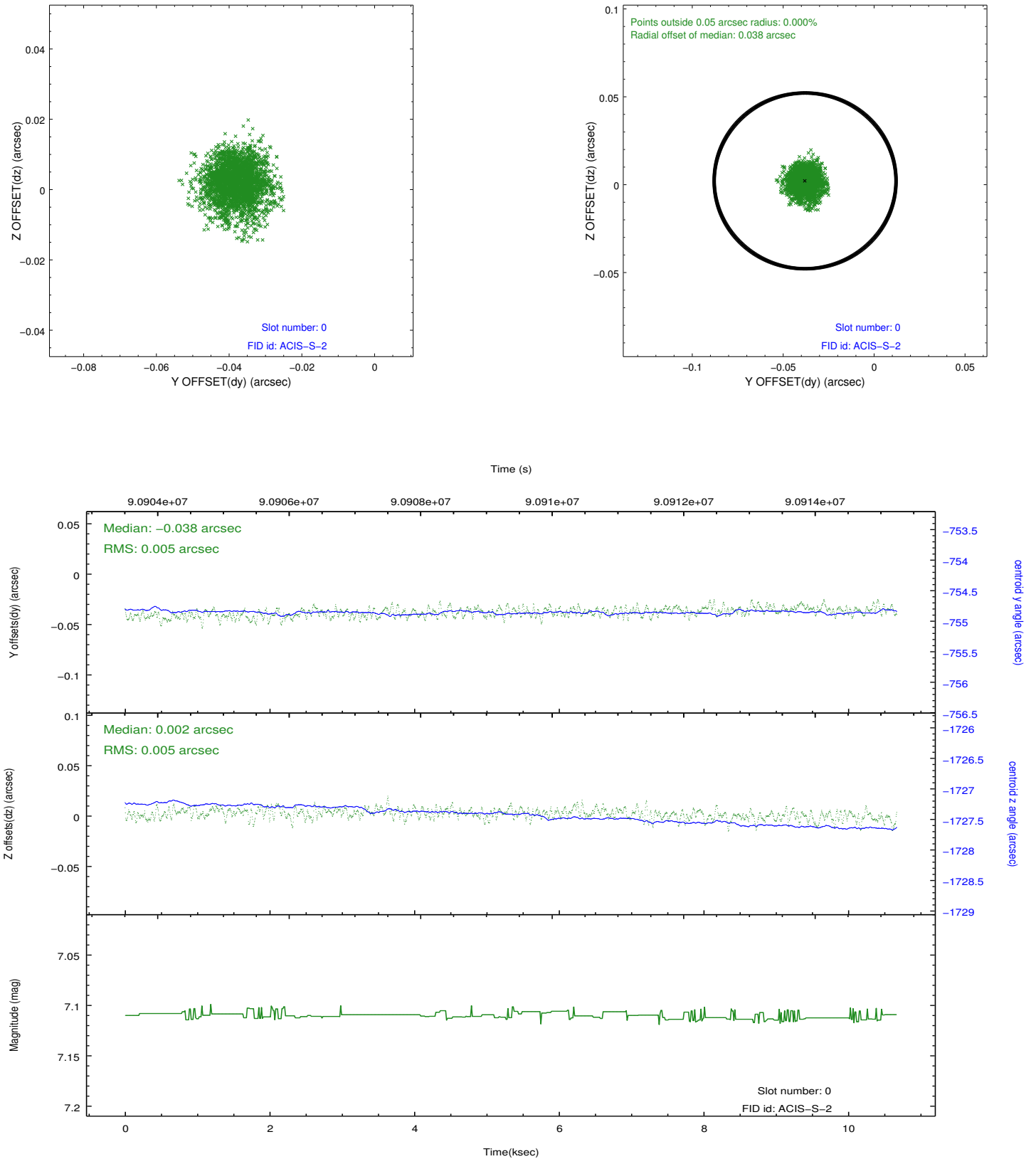


2.4.5 Slot 7

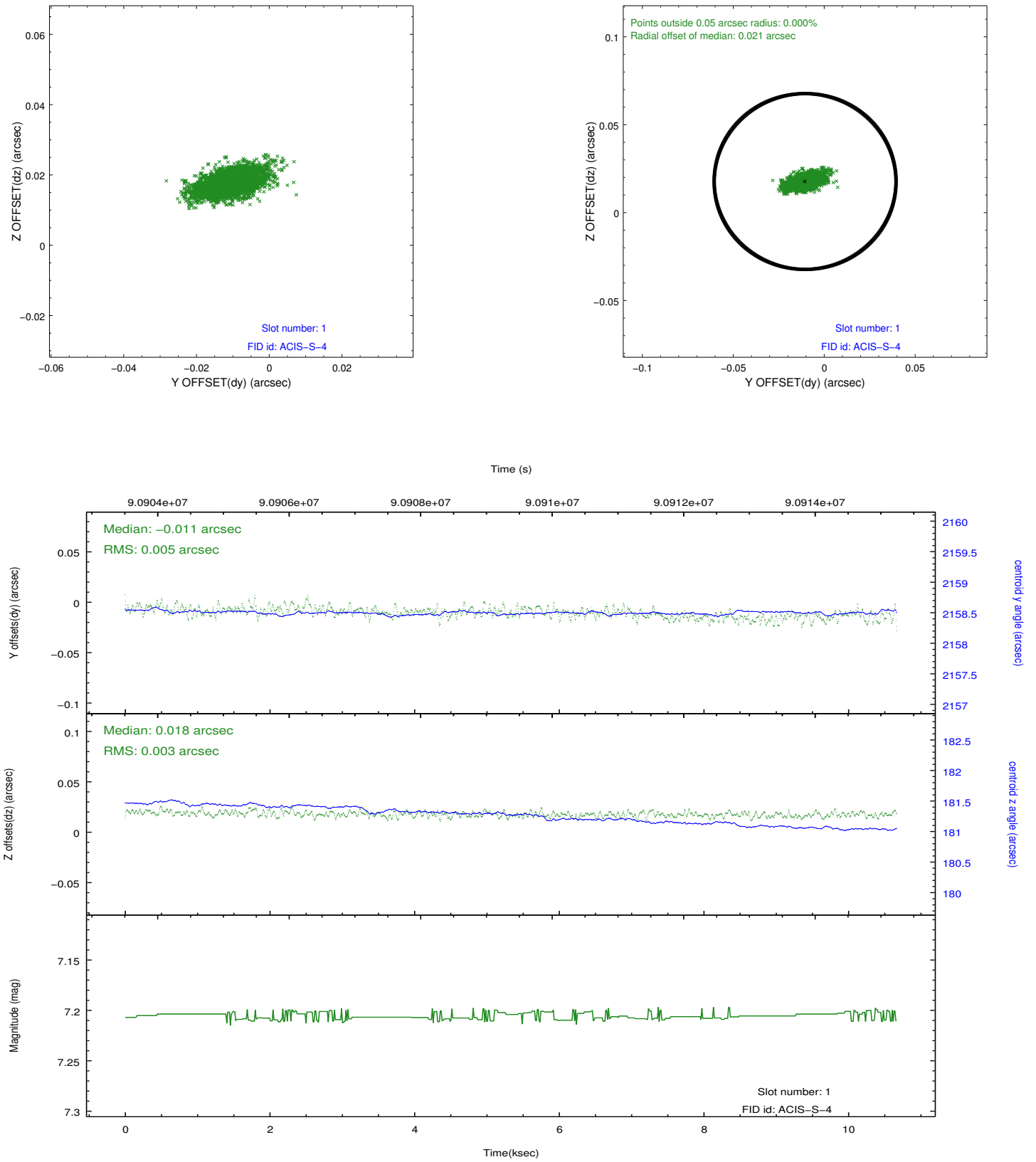


2.5 FID Slots

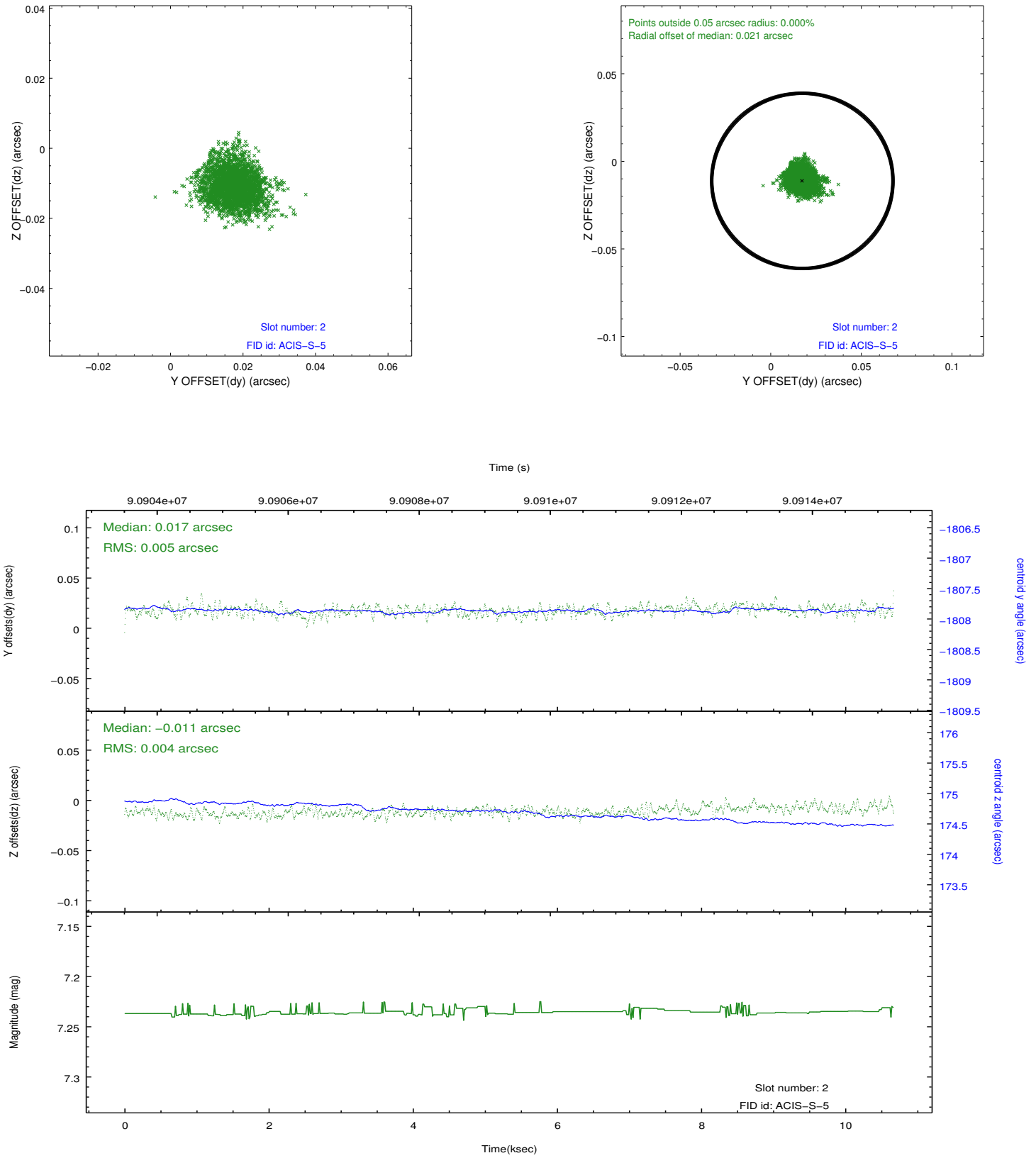
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.798

A.2 Comments