

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 412 - L2 Version 4
Chandra X-Ray Center

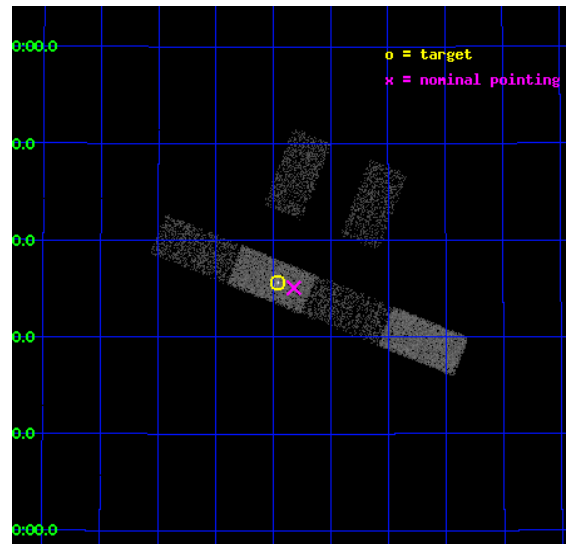
L2 Processing Date : Aug 25 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

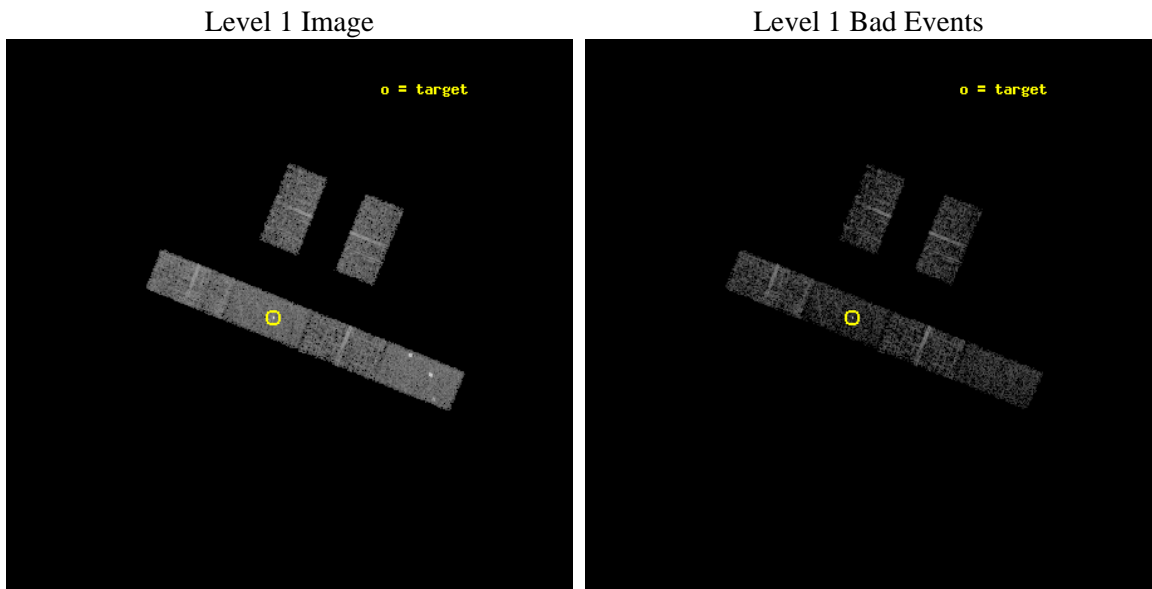
seq_num	700084	Sequence number
obs_id	412	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Professor Gordon Garmire	Principal investigator
object	NGC 5033	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	198.365	Observer's specified target RA [deg]
dec_targ	36.594361	Observer's specified target Dec [deg]
ra_nom	198.32997579786	Nominal RA [deg]
dec_nom	36.585048599956	Nominal Dec [deg]
roll_nom	201.84529064427	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2968.1999951005	Sum of GTIs [s]
livetime	2902.0336283736	Livetime [s]
ontime2	2968.1999951005	Sum of GTIs [s]
ontime3	2968.1999951005	Sum of GTIs [s]
ontime5	2968.1999951005	Sum of GTIs [s]
ontime6	2968.1999951005	Sum of GTIs [s]
ontime7	2968.1999951005	Sum of GTIs [s]
ontime8	2968.1999951005	Sum of GTIs [s]
l2events	17879	Number of level 2 events



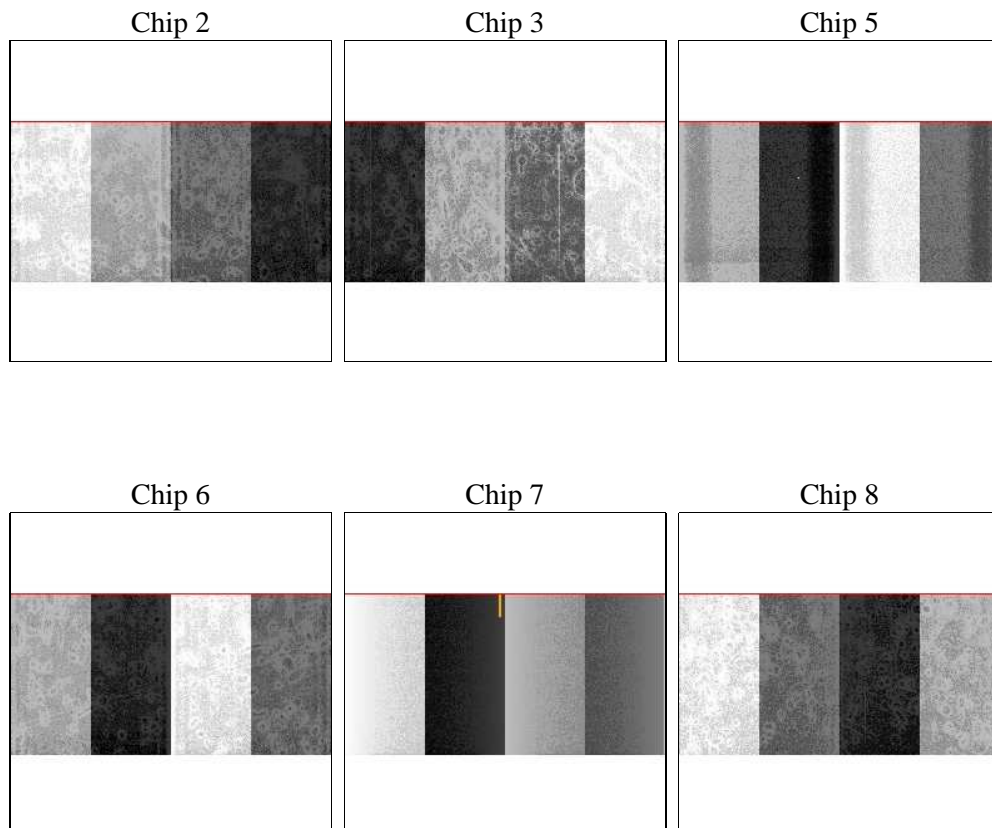
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2979.619000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2968.1999951005	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	2968.1999951005	Sum of GTIs [s]
date	2012-08-25T20:44:35	Date and time of file creation	ontime3	2968.1999951005	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	2968.1999951005	Sum of GTIs [s]
			ontime6	2968.1999951005	Sum of GTIs [s]
			ontime7	2968.1999951005	Sum of GTIs [s]
			ontime8	2968.1999951005	Sum of GTIs [s]
			l1events	85191	Number of level 1 events

2.1.4 Events

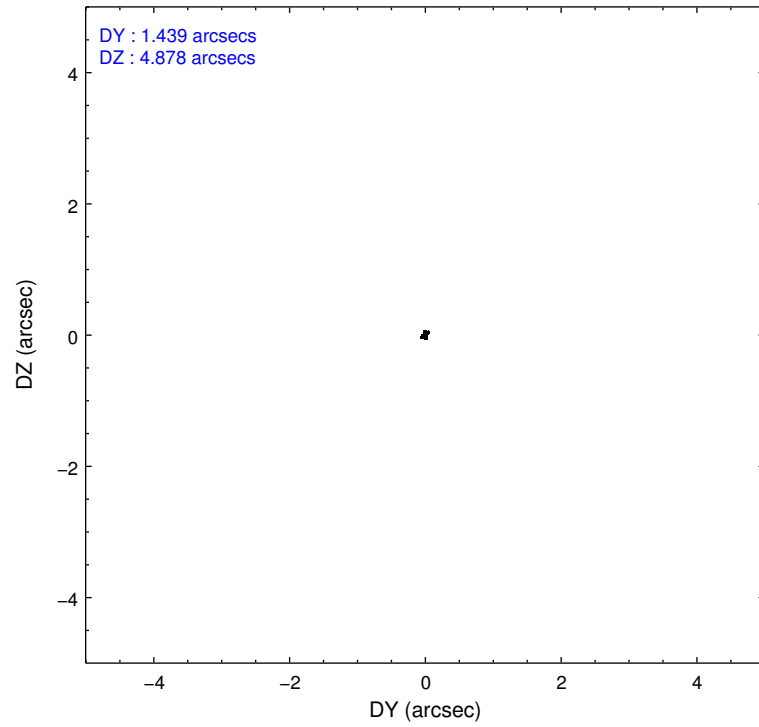
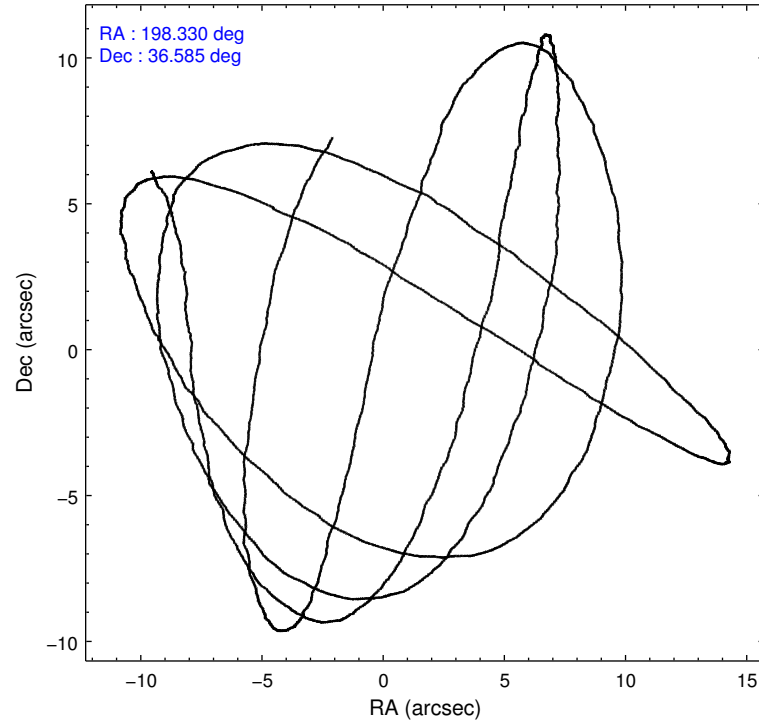
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	11876	11374	17074	12271	15483	17113
rejected events	10607	10090	7749	10977	8113	13856
rejected %	89%	88%	45%	89%	52%	80%

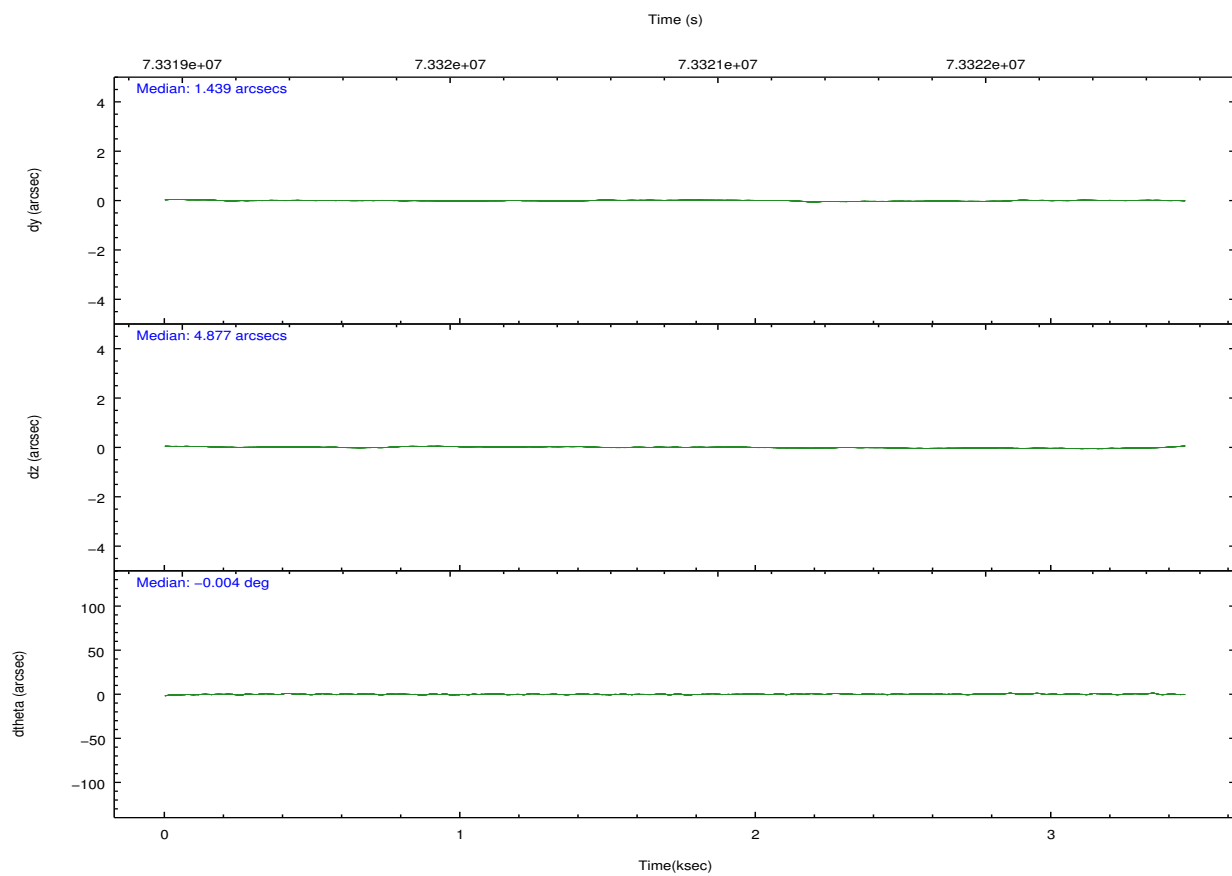
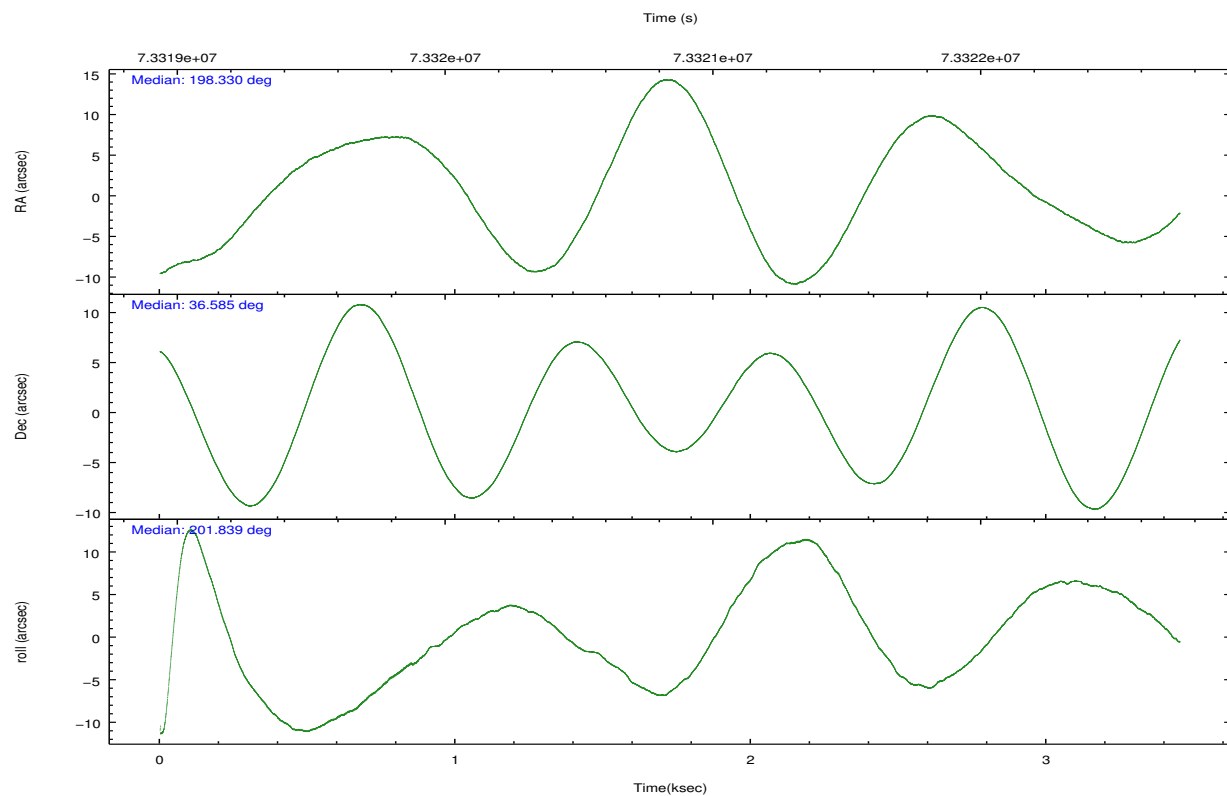
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	487	527	3238	534	1085	1084
	4%	4%	18%	4%	7%	6%
grade 1 events	4	8	18	2	70	12
	0%	0%	0%	0%	0%	0%
grade 2 events	249	233	2042	258	1583	606
	2%	2%	11%	2%	10%	3%
grade 3 events	156	165	391	158	751	435
	1%	1%	2%	1%	4%	2%
grade 4 events	164	144	357	131	747	410
	1%	1%	2%	1%	4%	2%
grade 5 events	362	347	1225	362	1491	525
	3%	3%	7%	2%	9%	3%
grade 6 events	214	216	3312	214	3214	726
	1%	1%	19%	1%	20%	4%
grade 7 events	10240	9734	6491	10612	6542	13315
	86%	85%	38%	86%	42%	77%

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	198.351235	198.3299757978571	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	36.606830	36.58504859995585	Subarray start row	255	255
[deg] Pointing Roll	201.675962	201.8452906442679	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	73319592.184000	73318672.213223			
Observation start date	2000-04-28T14:32:08	2000-04-28T14:17:52			
[s] Observation end time (MET)	73322572.184000	73322881.88837799			
Observation end date	2000-04-28T15:21:48	2000-04-28T15:28:01			
Read mode	TIMED	TIMED			

2.3 Aspect



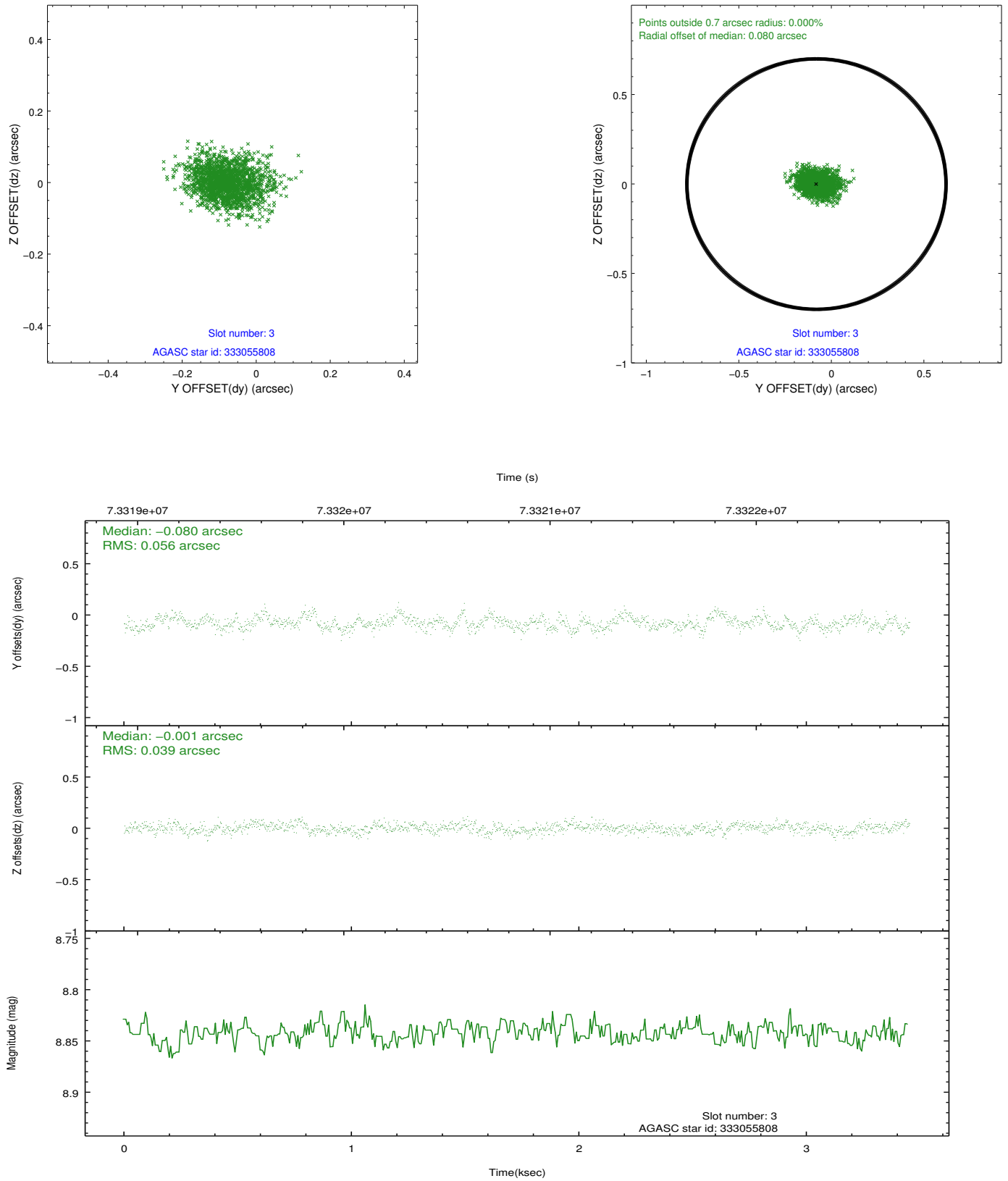


Slot Statistics

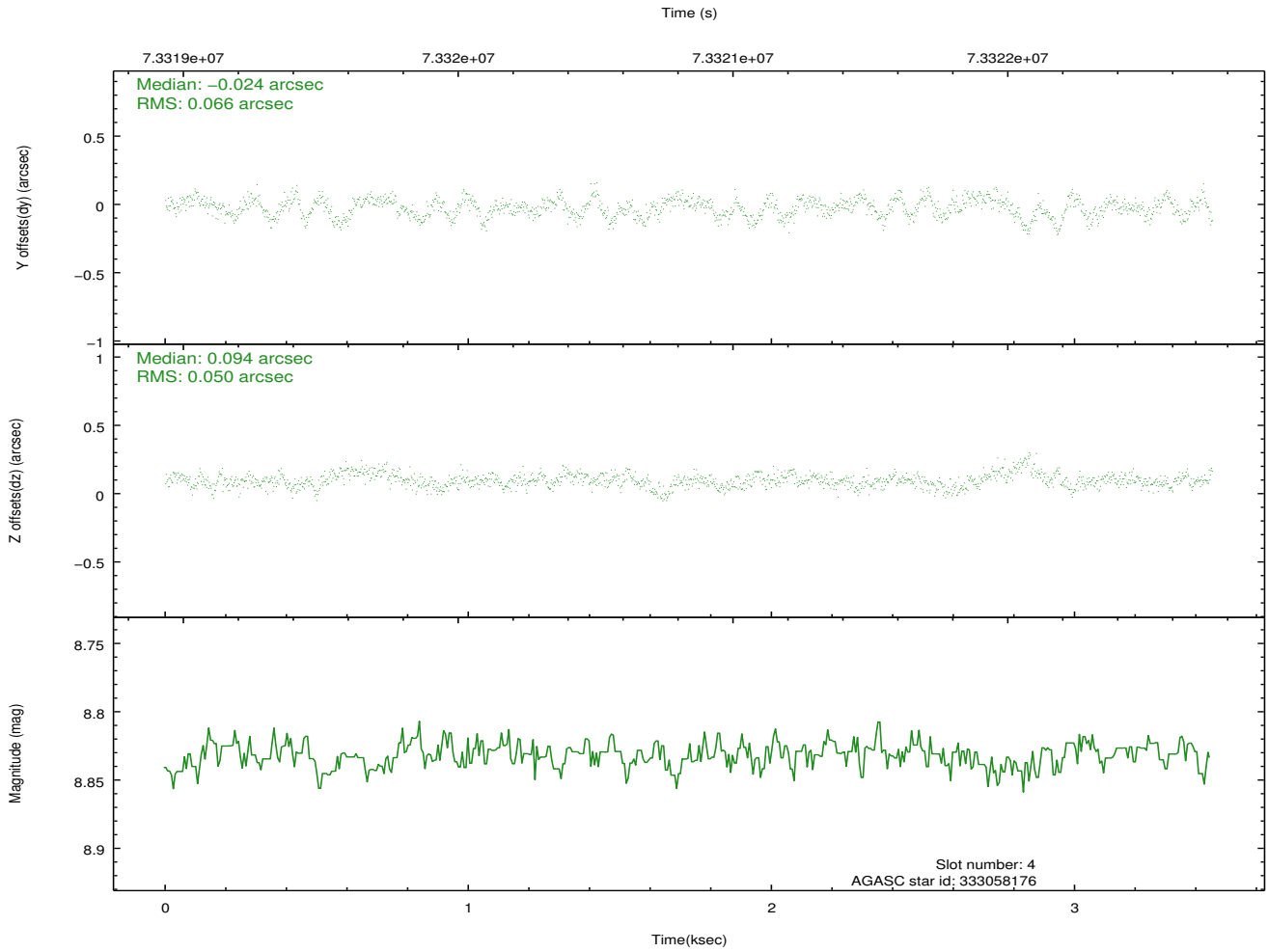
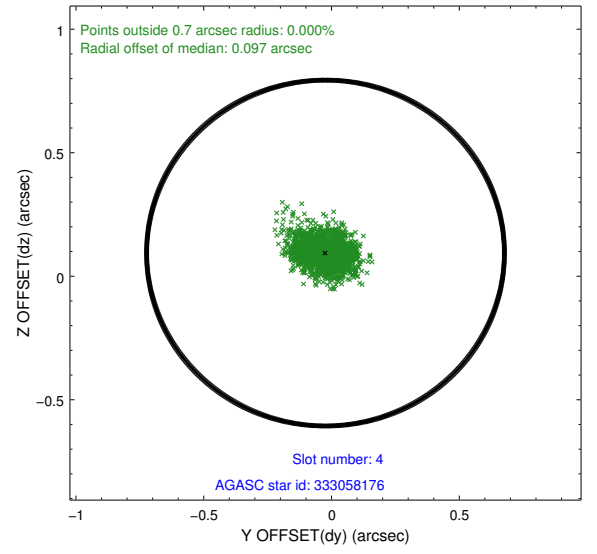
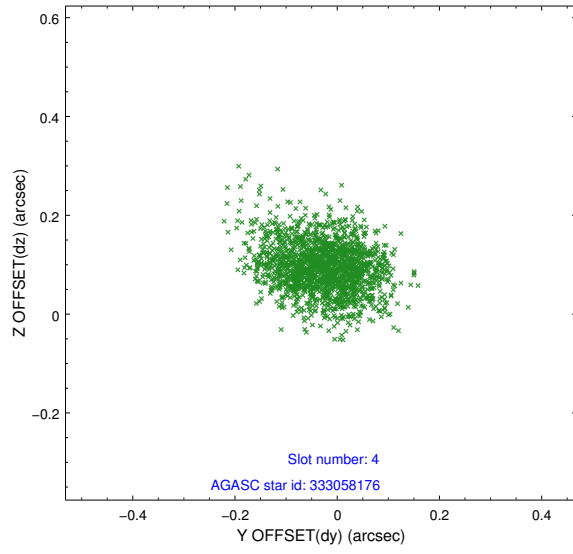
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	842	-0.033	-0.004	0.007	0.011	0.000000	0.000000	-754.07	-1725.99
1	FID	ACIS-S-4	7.21	842	0.006	0.017	0.006	0.011	0.000000	0.000000	2158.42	180.63
2	FID	ACIS-S-5	7.23	842	-0.004	-0.004	0.006	0.010	0.000000	0.000000	-1804.52	176.36
3	GUIDE	333055808	8.84	1685	-0.080	-0.001	0.072	0.121	198.883758	36.599554	-1421.57	588.66
4	GUIDE	333058176	8.83	1685	-0.024	0.094	0.087	0.140	199.176915	36.381304	-1928.12	1629.06
5	GUIDE	332142088	9.55	1682	0.048	-0.054	0.083	0.133	197.774037	36.602770	1553.39	-606.23
6	GUIDE	332143784	9.77	1683	0.067	0.101	0.111	0.179	197.886774	35.938641	2146.93	1732.26
7	GUIDE	333059040	9.81	1682	-0.010	-0.142	0.102	0.167	198.328354	36.958640	-404.54	-1200.51

2.4 Star Slots

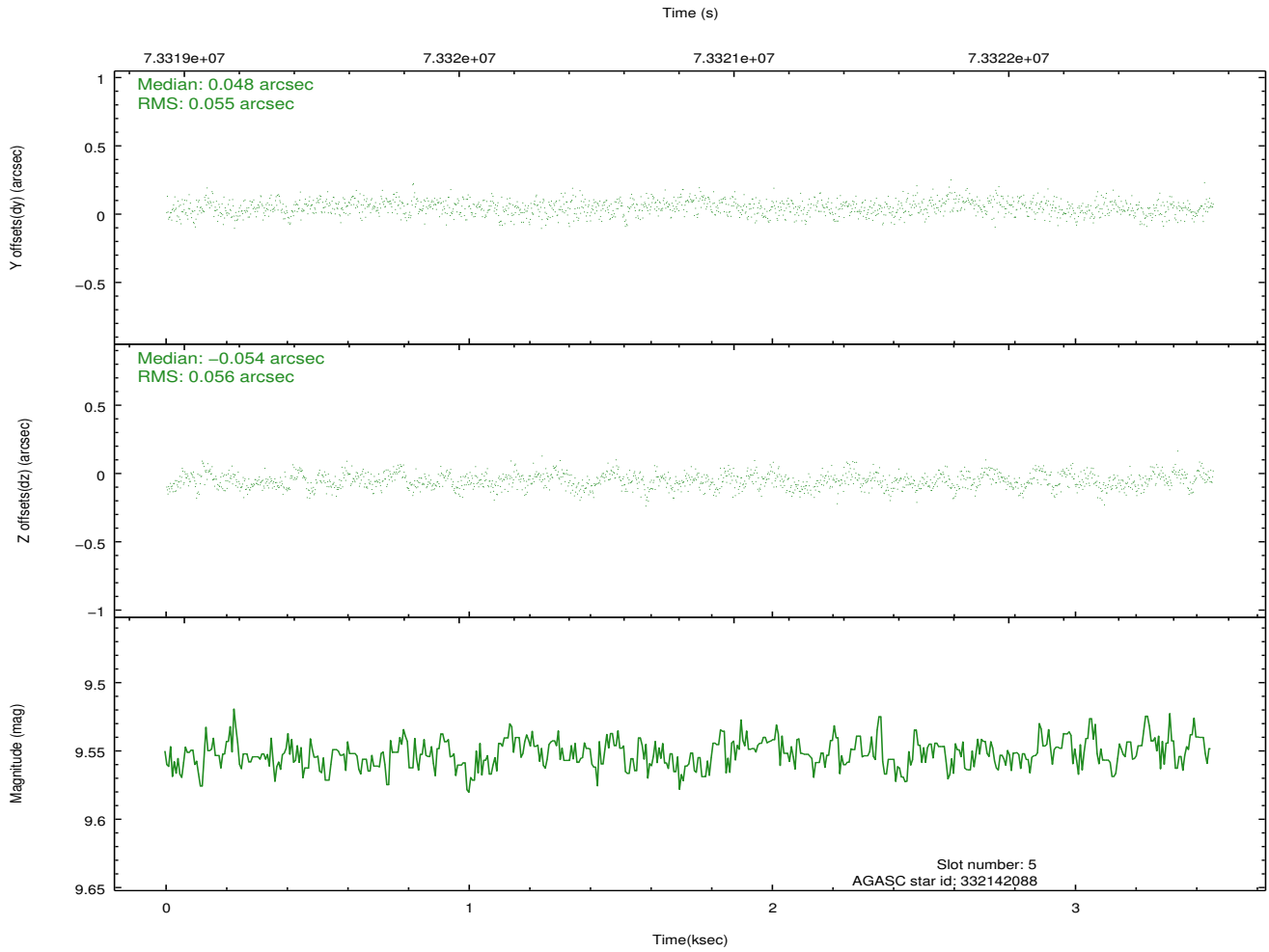
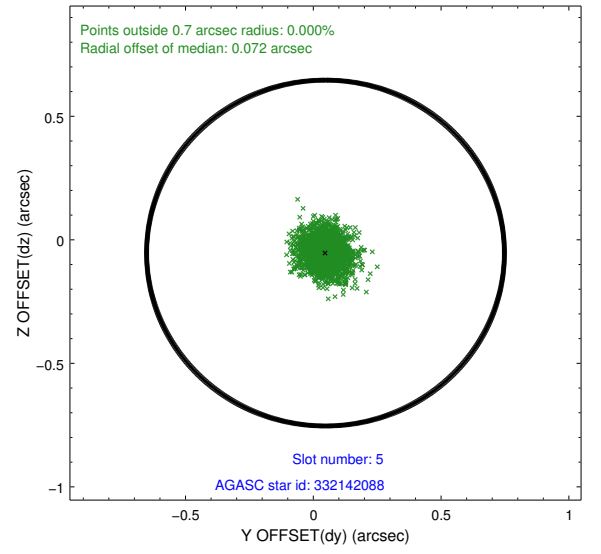
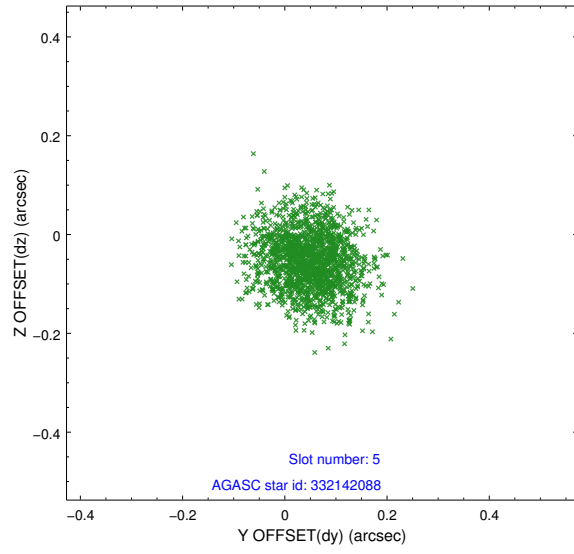
2.4.1 Slot 3



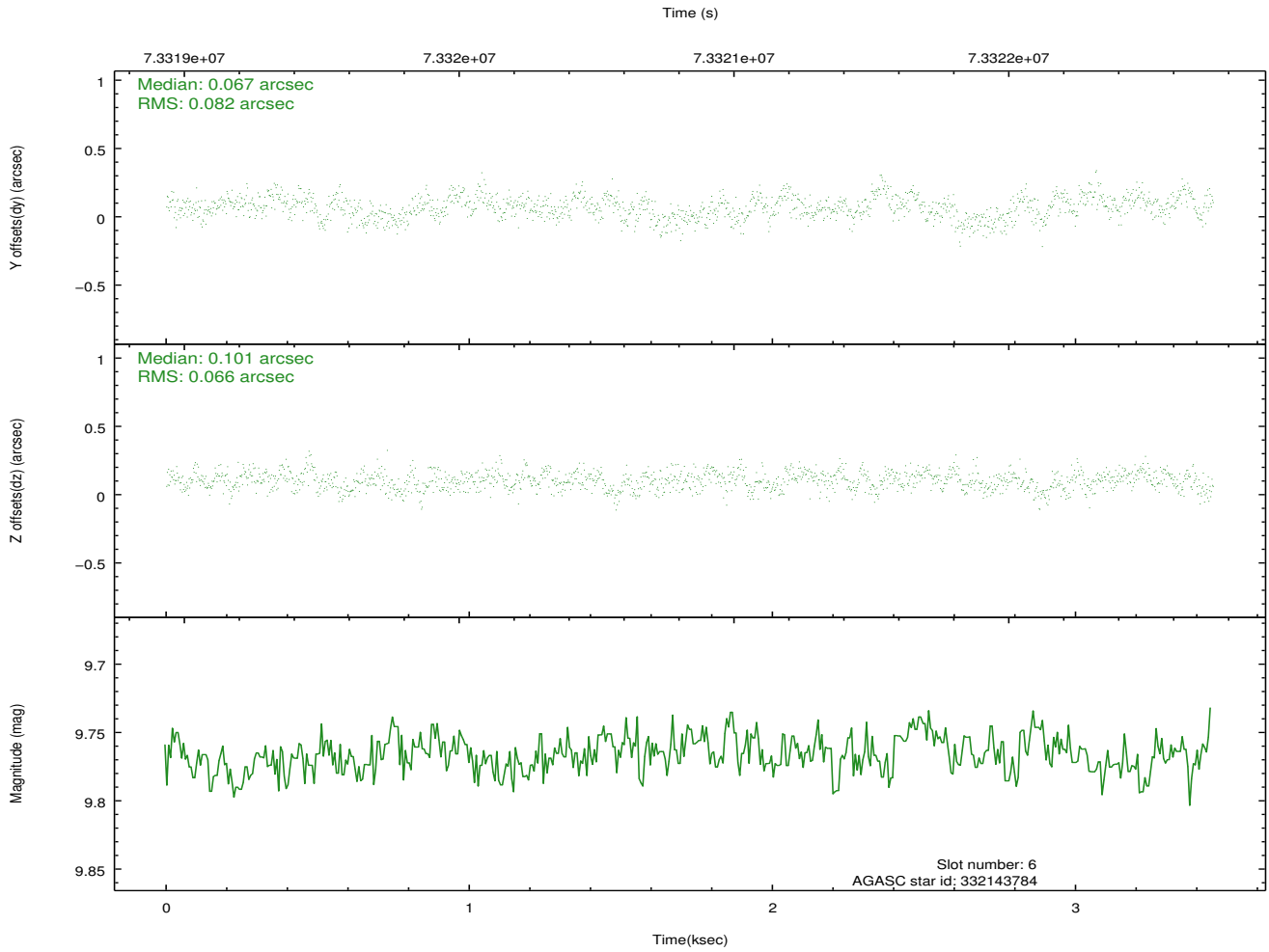
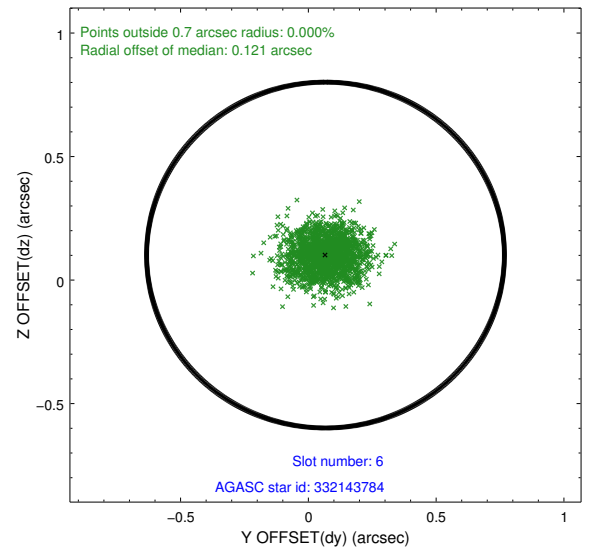
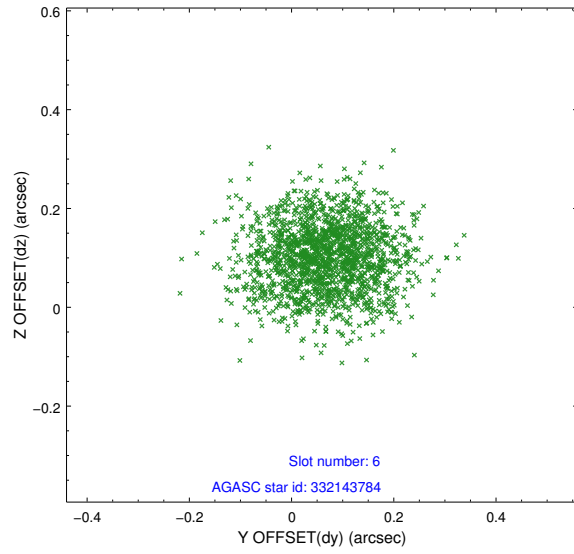
2.4.2 Slot 4



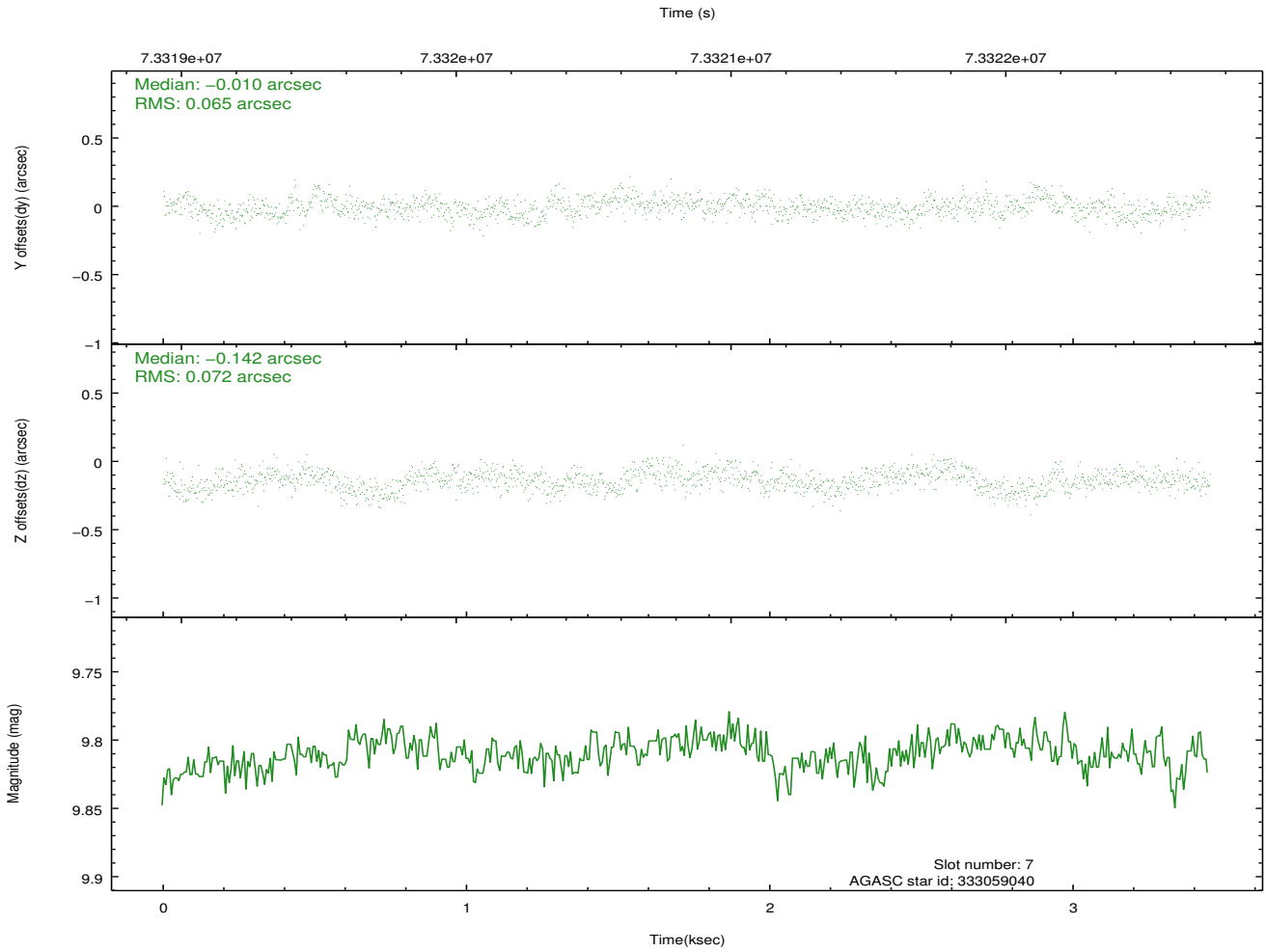
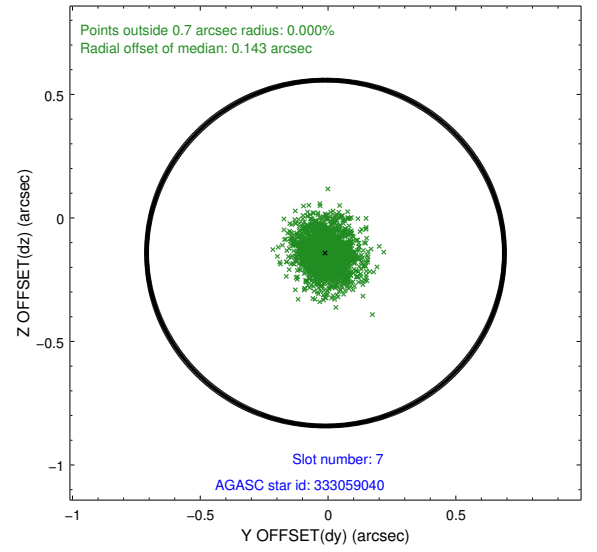
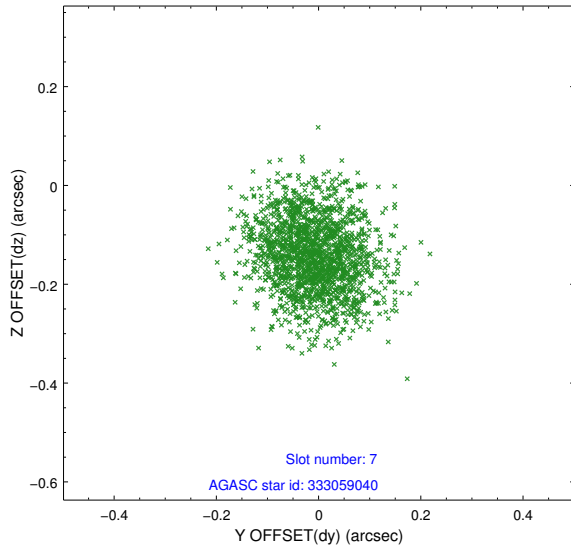
2.4.3 Slot 5



2.4.4 Slot 6

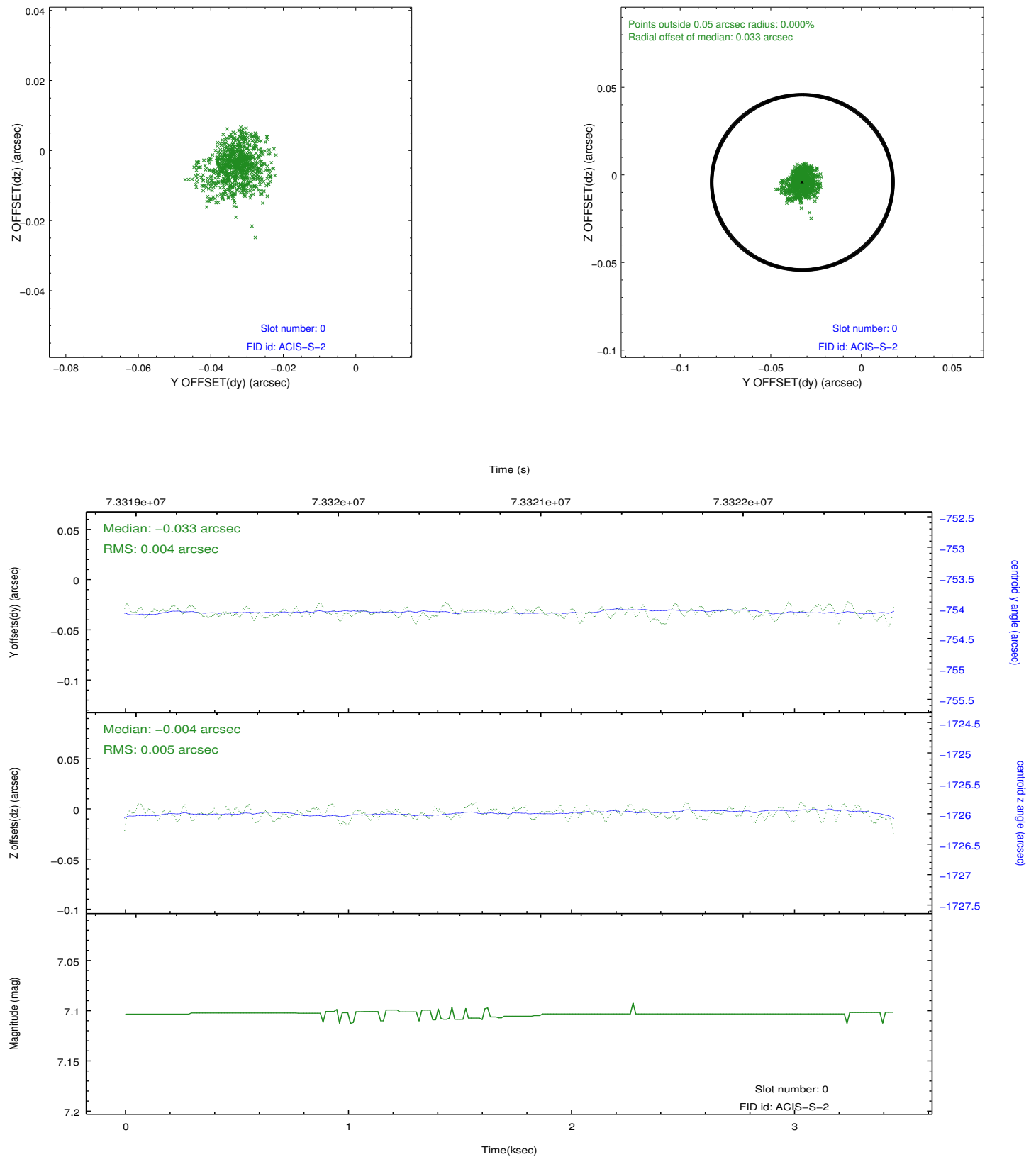


2.4.5 Slot 7

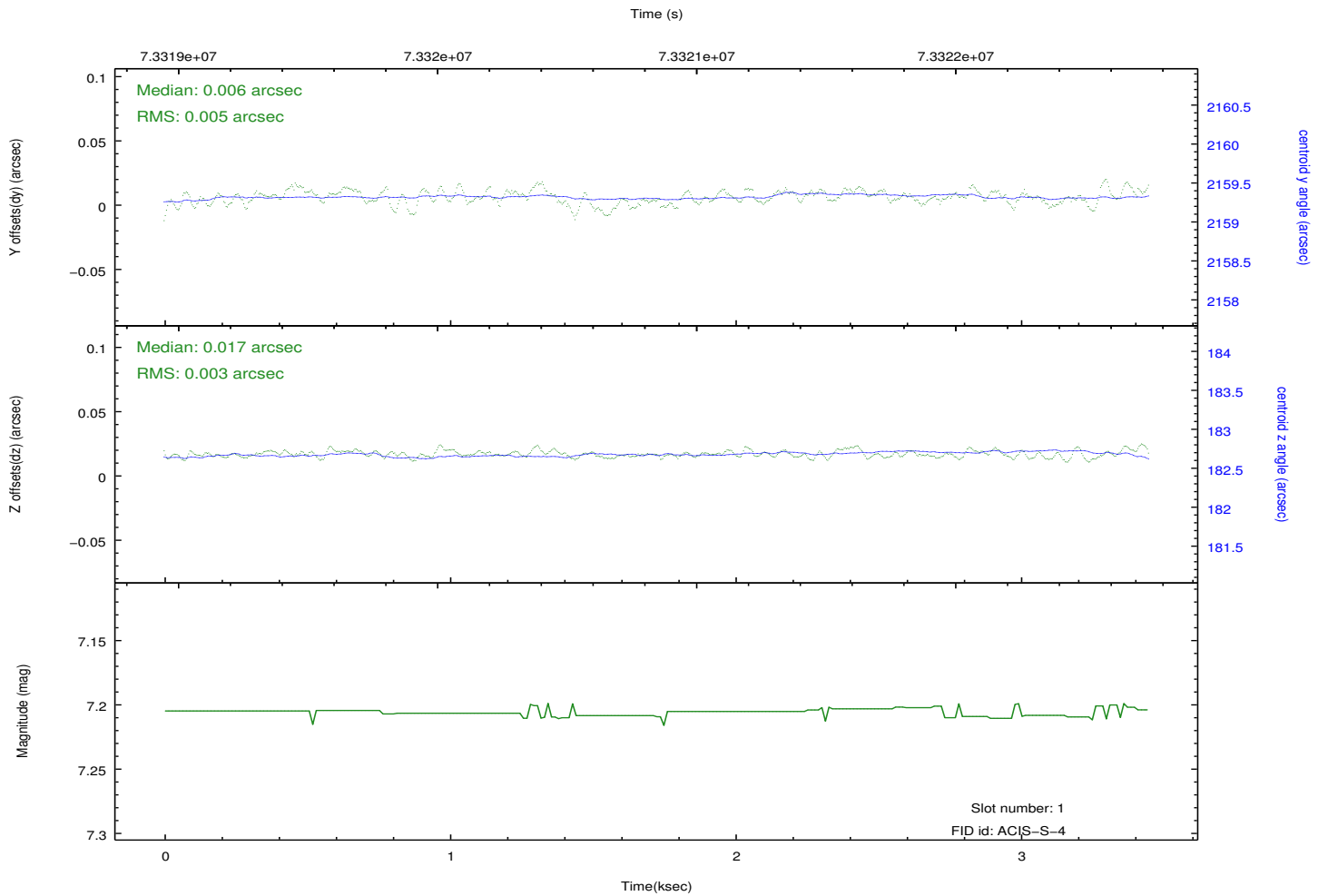
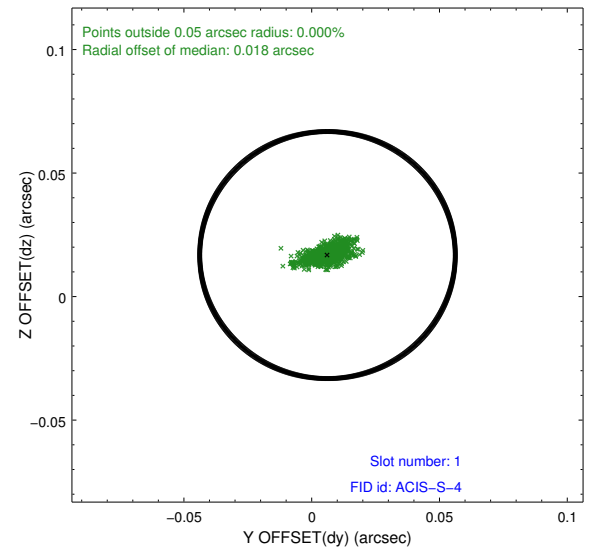
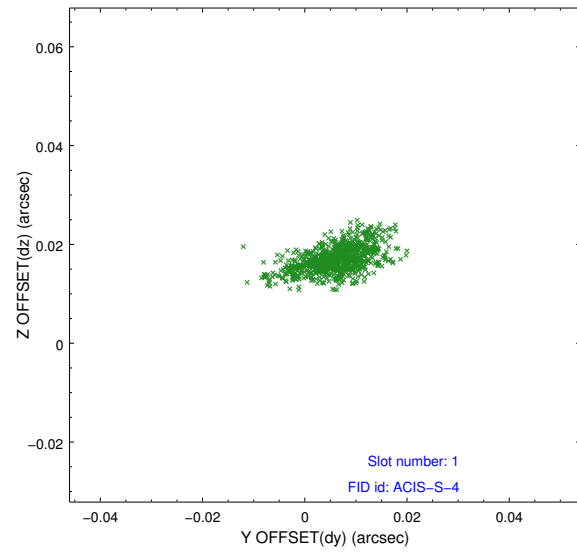


2.5 FID Slots

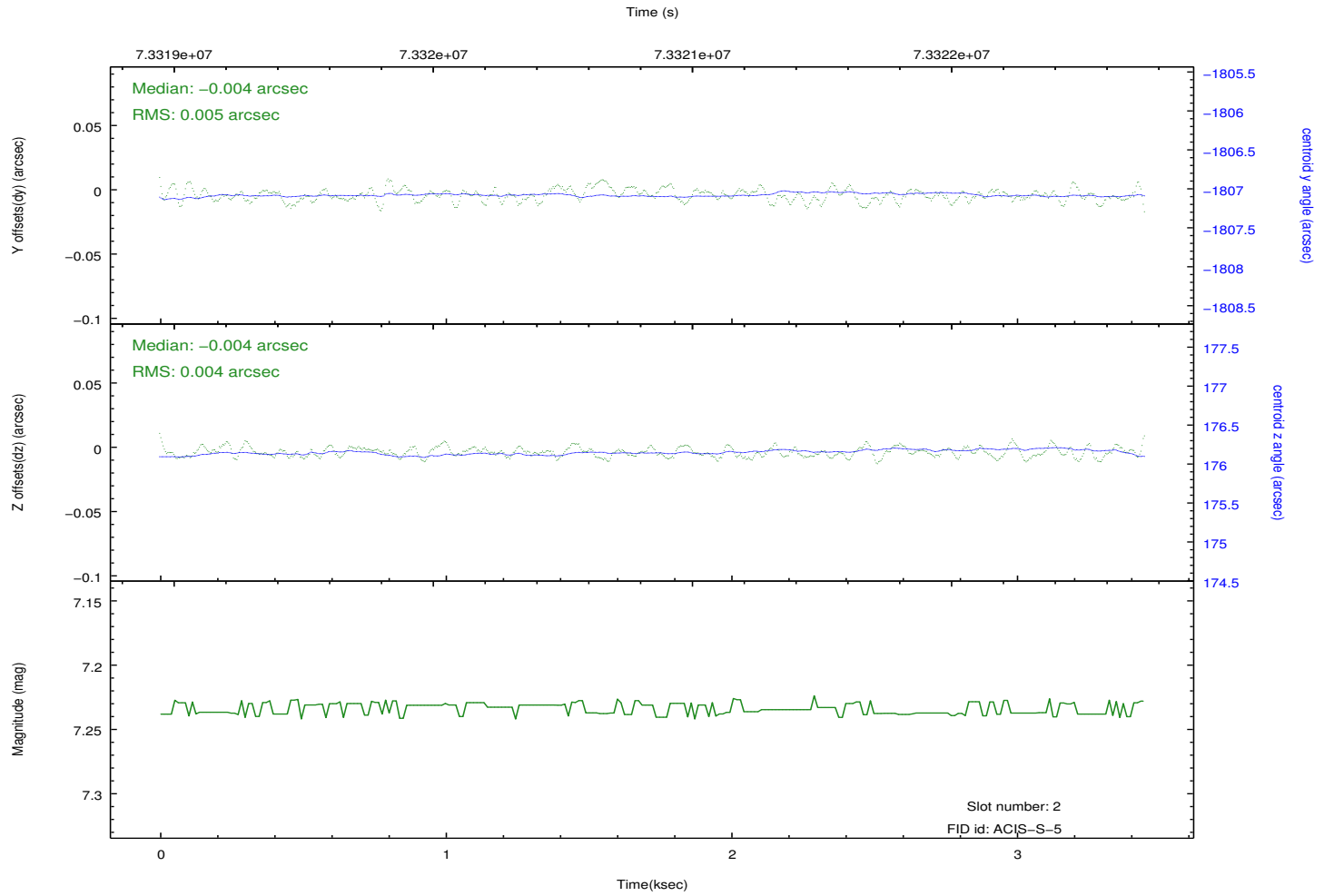
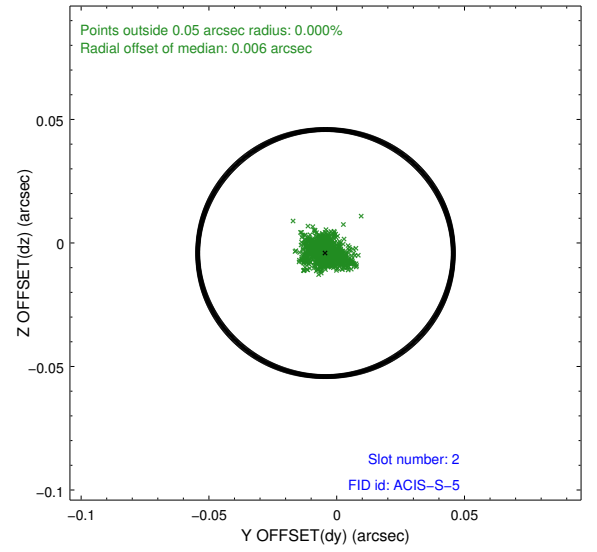
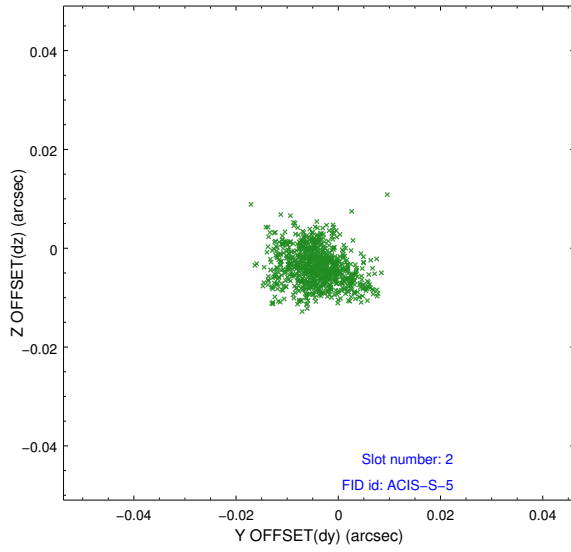
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.97

A.2 Comments