

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 818 - L2 Version 3

Chandra X-Ray Center

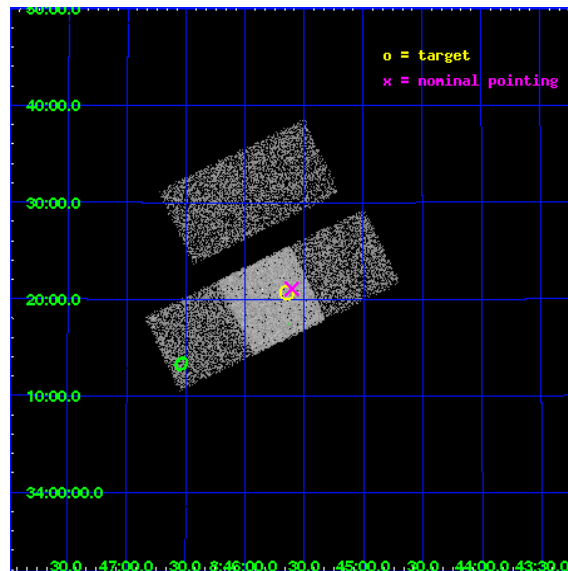
L2 Processing Date : Dec 5 2009

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1 Front

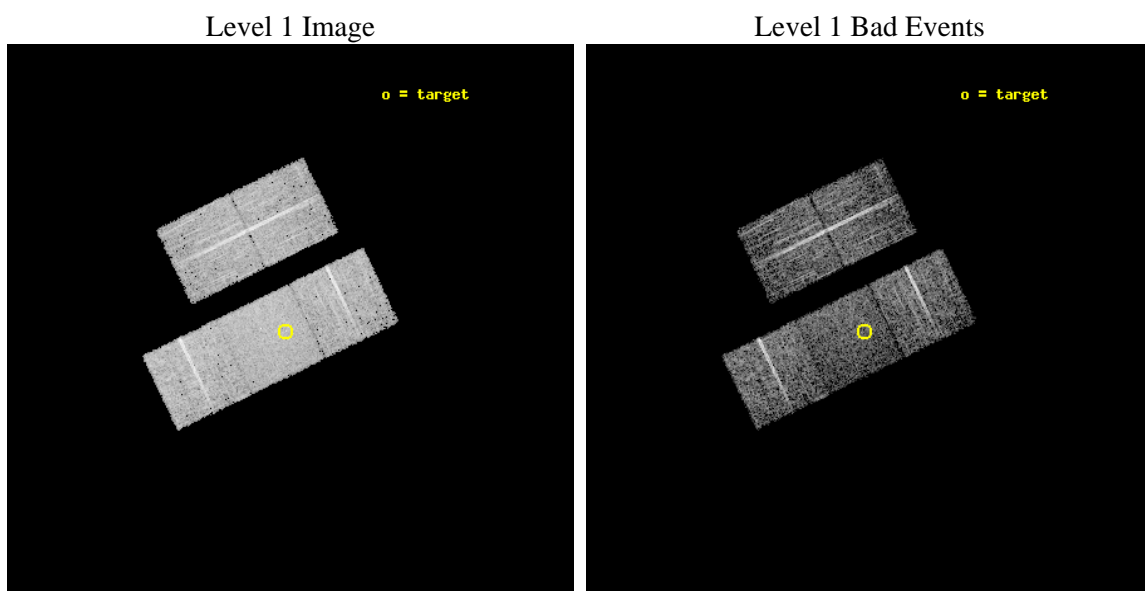
seq_num	700123	Sequence number
obs_id	818	Observation id
title	LIFTING THE SHROUD AROUND BROAD ABSORPTION LINE QSOS: AN AXAF SURVEY	
observer	Dr. Paul Green	Principal investigator
object	Q0842+3431	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	131.4111	Observer's specified target RA
dec_targ	34.3455	Observer's specified target Dec
ra_nom	131.40120727263	Nominal RA
dec_nom	34.351653607556	Nominal Dec
roll_nom	154.10652607304	Nominal Roll
revision	3	Processing version of data
ontime	4214.400003925	Sum of GTIs [s]
livetime	4161.0347334682	Livetime [s]
ontime2	4214.400003925	Sum of GTIs [s]
ontime3	4214.400003925	Sum of GTIs [s]
ontime6	4214.400003925	Sum of GTIs [s]
ontime7	4214.400003925	Sum of GTIs [s]
ontime8	4214.400003925	Sum of GTIs [s]
l2events	28458	Number of level 2 events



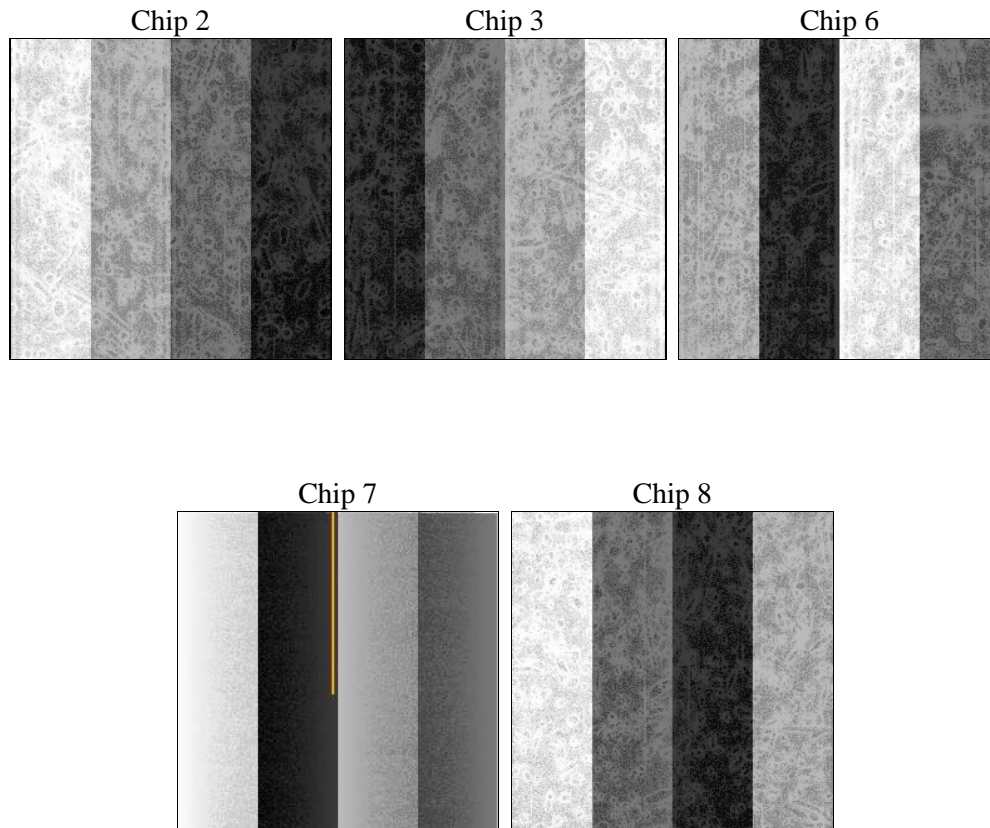
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4800.000000	Scheduled observation exposure time
ascdsver	8.1.2	ASCDS version number	ontime	4214.400003925	Sum of GTIs [s]
caldbver	4.1.4	 	ontime2	4214.400003925	Sum of GTIs [s]
date	2009-12-05T05:44:01	Date and time of file creation	ontime3	4214.400003925	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	4214.400003925	Sum of GTIs [s]
			ontime7	4214.400003925	Sum of GTIs [s]
			ontime8	4214.400003925	Sum of GTIs [s]
			l1events	188509	Number of level 1 events

2.1.4 Events

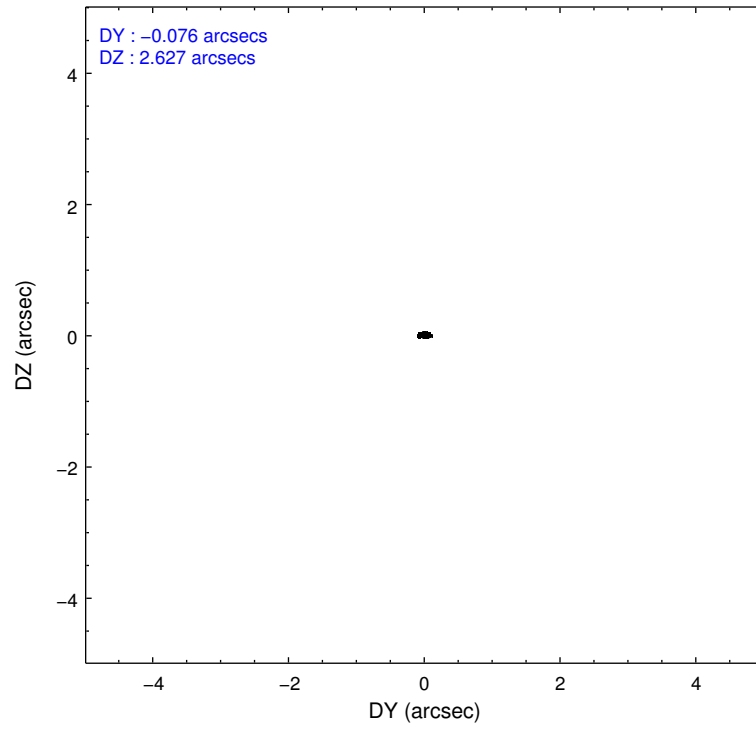
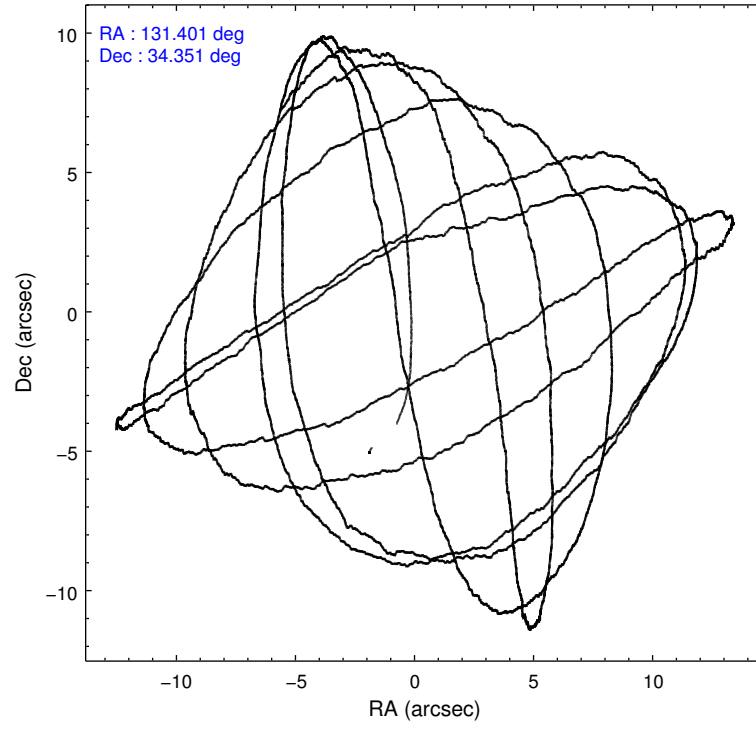
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	35109	35339	36859	39063	42139
rejected events	31776	31838	33053	23731	34691
rejected %	90%	90%	89%	60%	82%

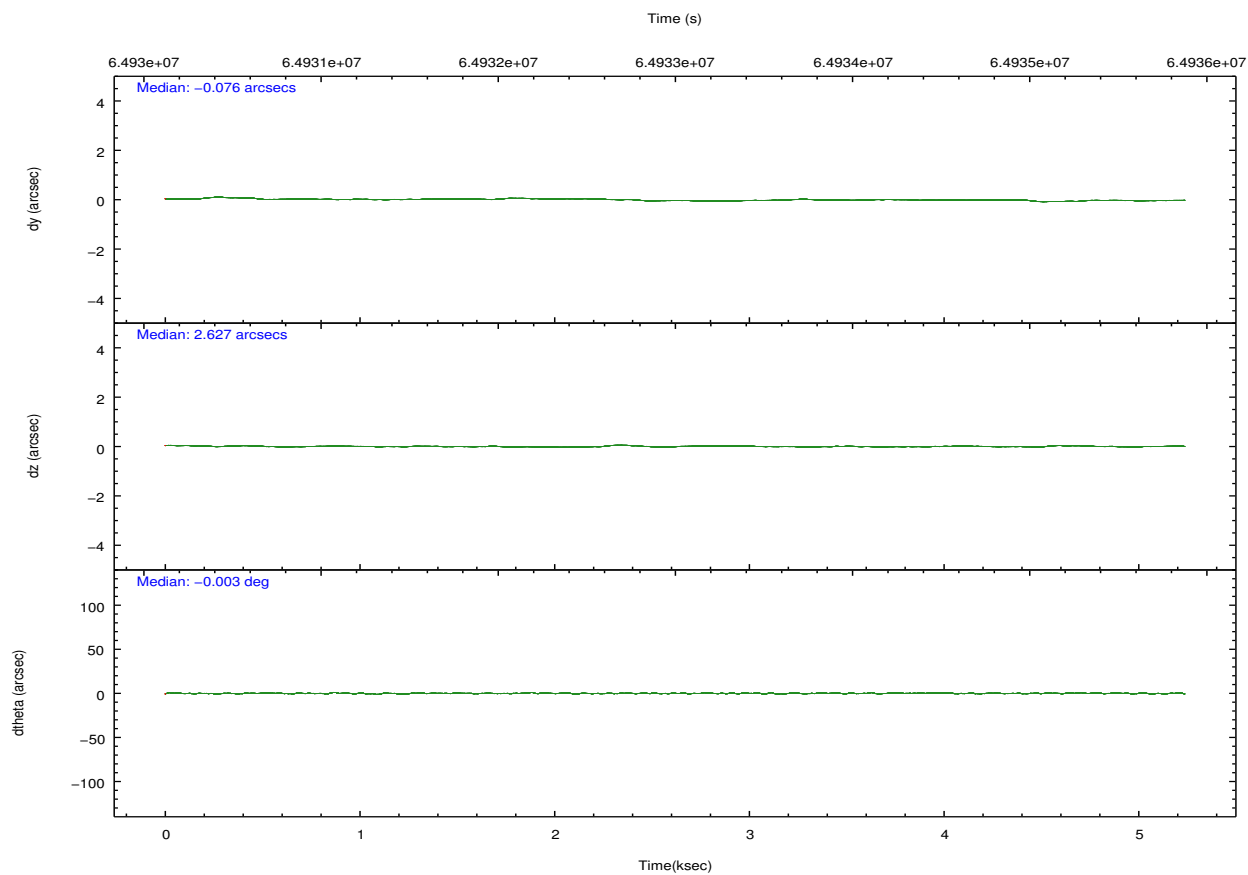
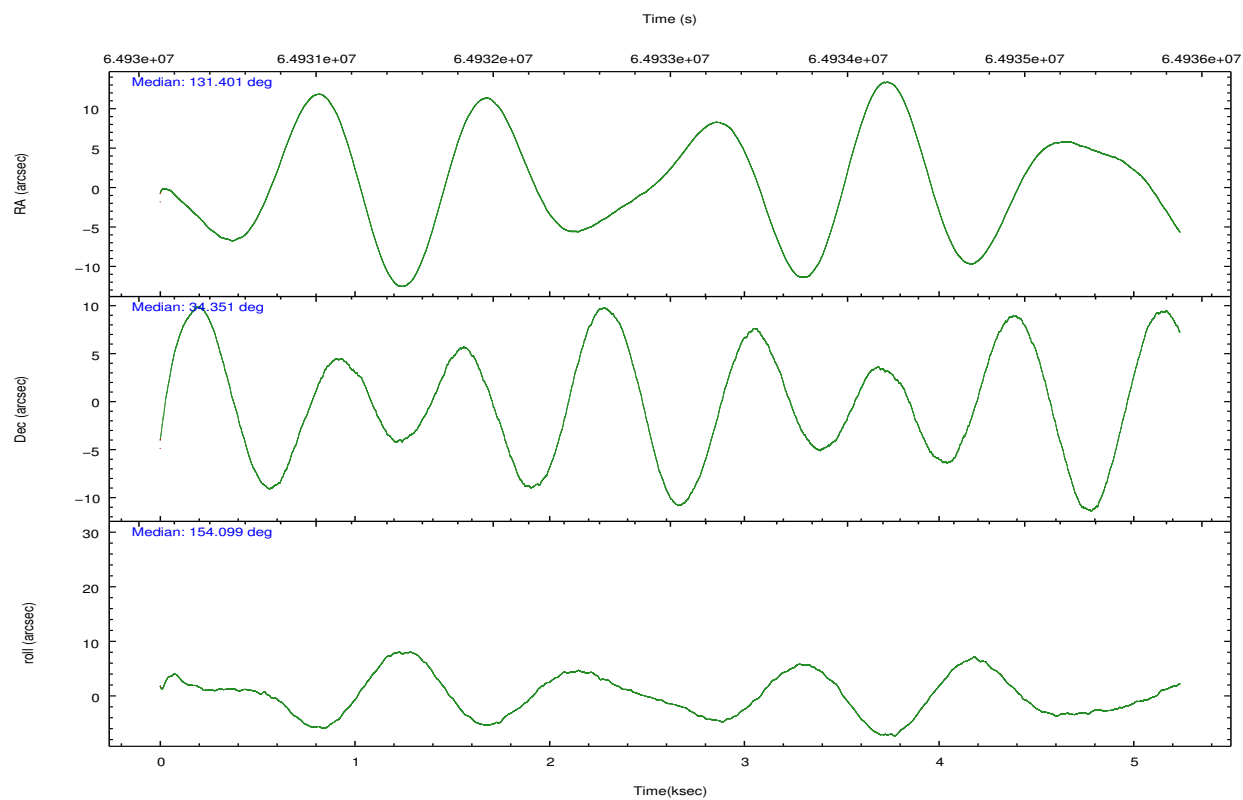
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	721	719	717	1067	1719
	2%	2%	1%	2%	4%
grade 1 events	8	6	8	23	30
	0%	0%	0%	0%	0%
grade 2 events	1407	1552	1632	3204	2481
	4%	4%	4%	8%	5%
grade 3 events	191	212	233	972	599
	0%	0%	0%	2%	1%
grade 4 events	200	206	222	875	572
	0%	0%	0%	2%	1%
grade 5 events	585	644	710	2300	1015
	1%	1%	1%	5%	2%
grade 6 events	817	818	1008	9246	2089
	2%	2%	2%	23%	4%
grade 7 events	31180	31182	32329	21376	33634
	88%	88%	87%	54%	79%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	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
Pointing RA	131.434483	131.4012072726261	Subarray requested	NONE	NONE
Pointing Dec	34.353492	34.35165360755566	Alternating exposures requested	N	N
Pointing Roll	153.931117	154.1065260730405	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	64930817.184000	64930116.952849			
Observation start date	2000-01-22T12:19:13	2000-01-22T12:08:36			
Observation end time	64935617.184000	64937135.640604			
Observation end date	2000-01-22T13:39:13	2000-01-22T14:05:35			
Read mode	TIMED	TIMED			

2.3 Aspect



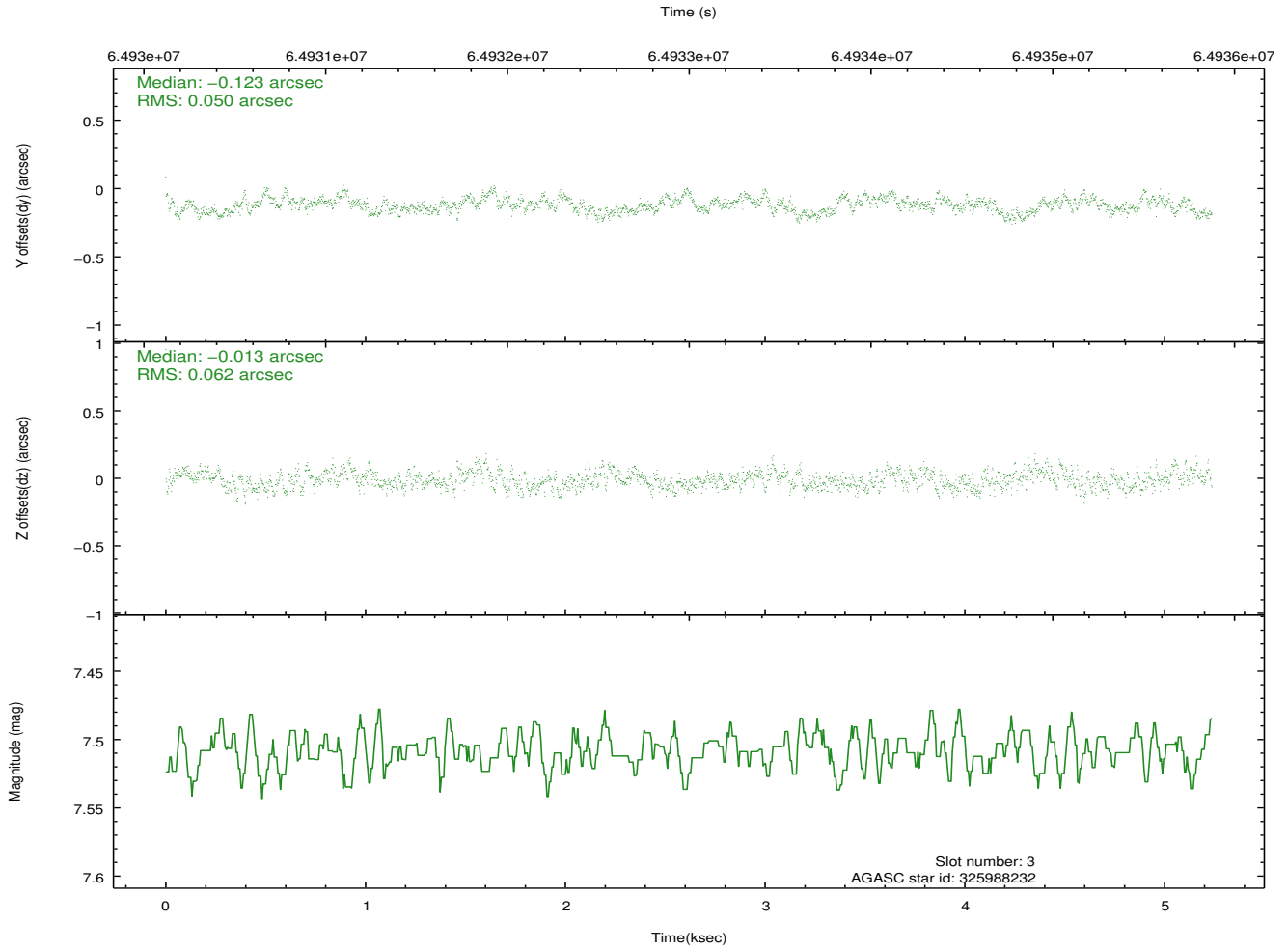
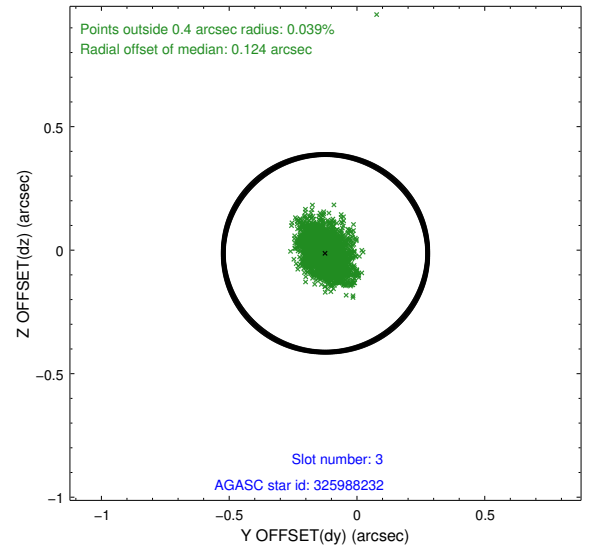
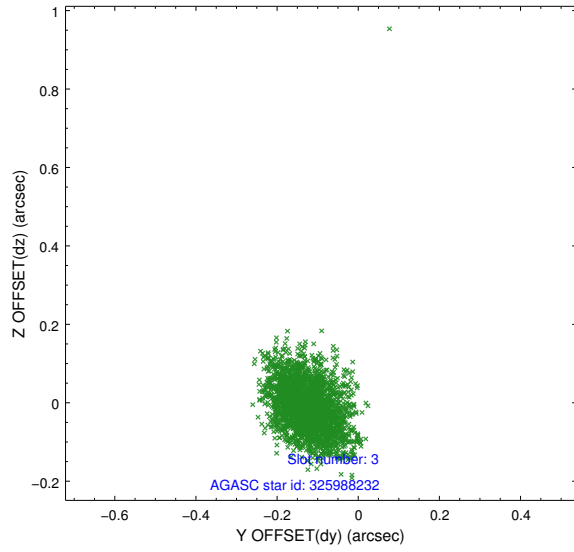


Slot Statistics

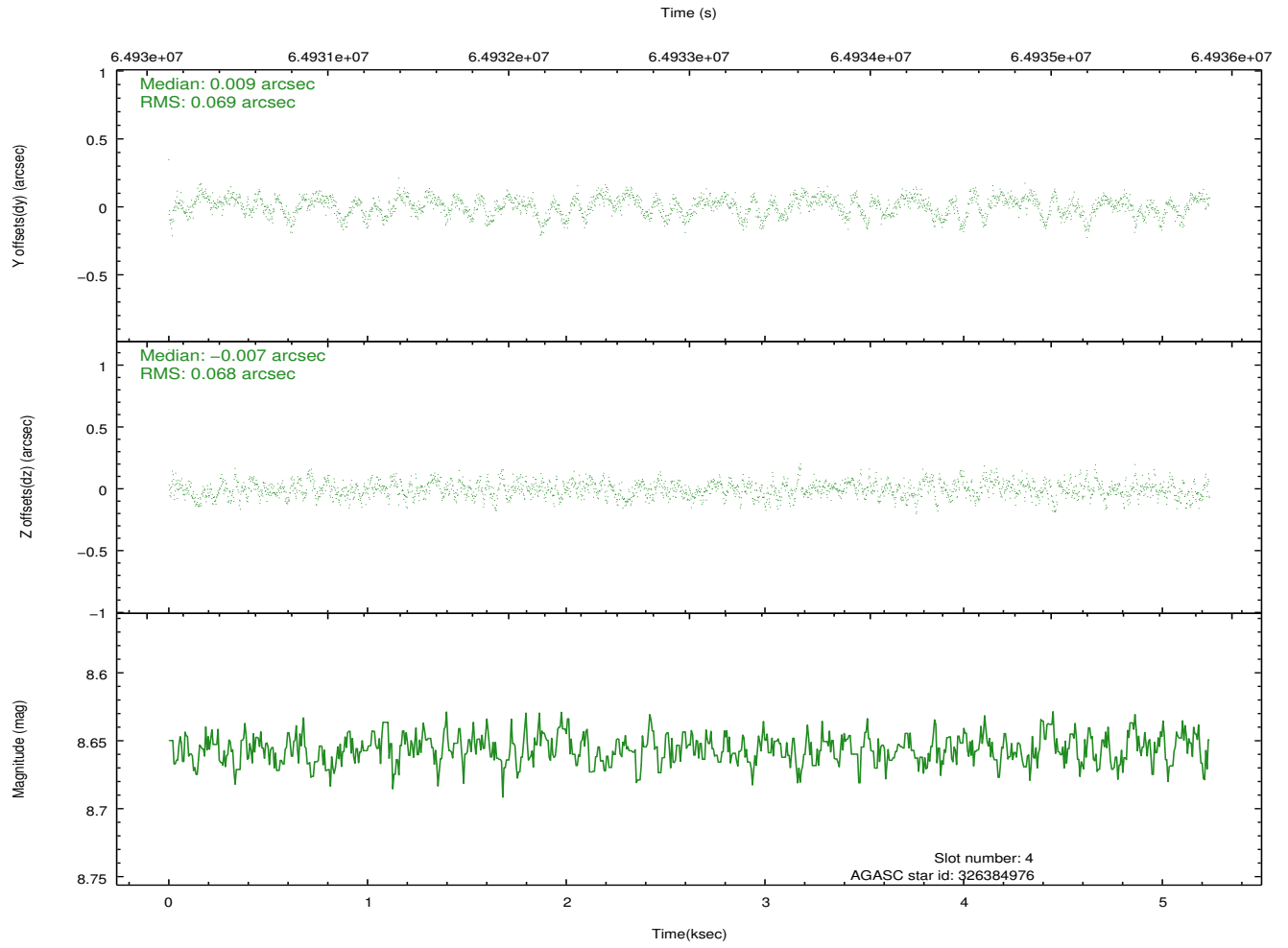
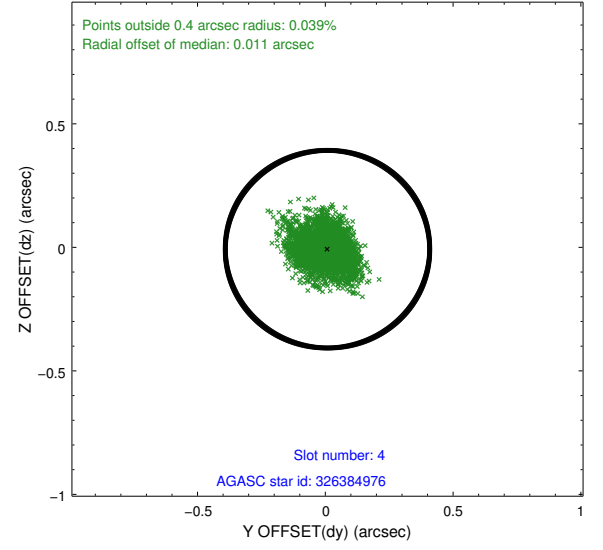
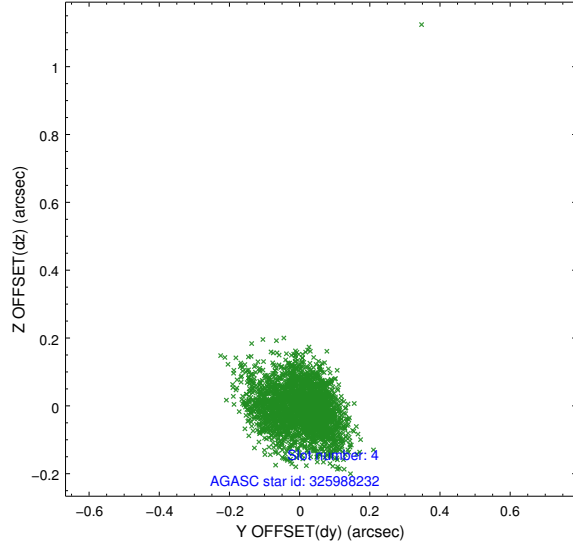
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1278	-0.001	-0.014	0.006	0.011	0.000000	0.000000	-752.53	-1723.67
1	FID	ACIS-S-4	7.21	1278	0.042	0.005	0.005	0.009	0.000000	0.000000	2160.32	183.57
2	FID	ACIS-S-5	7.24	1278	-0.072	0.019	0.006	0.011	0.000000	0.000000	-1803.90	178.67
3	GUIDE	325988232	7.51	2556	-0.123	-0.013	0.082	0.135	130.628414	34.187713	1897.72	1581.66
4	GUIDE	326384976	8.66	2555	0.009	-0.007	0.100	0.160	131.001434	35.037509	2230.90	-1653.65
5	GUIDE	325977352	9.51	2555	-0.006	-0.024	0.099	0.164	131.822479	34.584783	-665.14	-1257.07
6	GUIDE	325978032	9.68	2554	-0.017	-0.035	0.112	0.191	131.625644	34.756593	129.93	-1554.02
7	GUIDE	325984960	9.90	2553	0.146	0.079	0.124	0.203	130.398201	34.074901	2341.77	2243.53

2.4 Star Slots

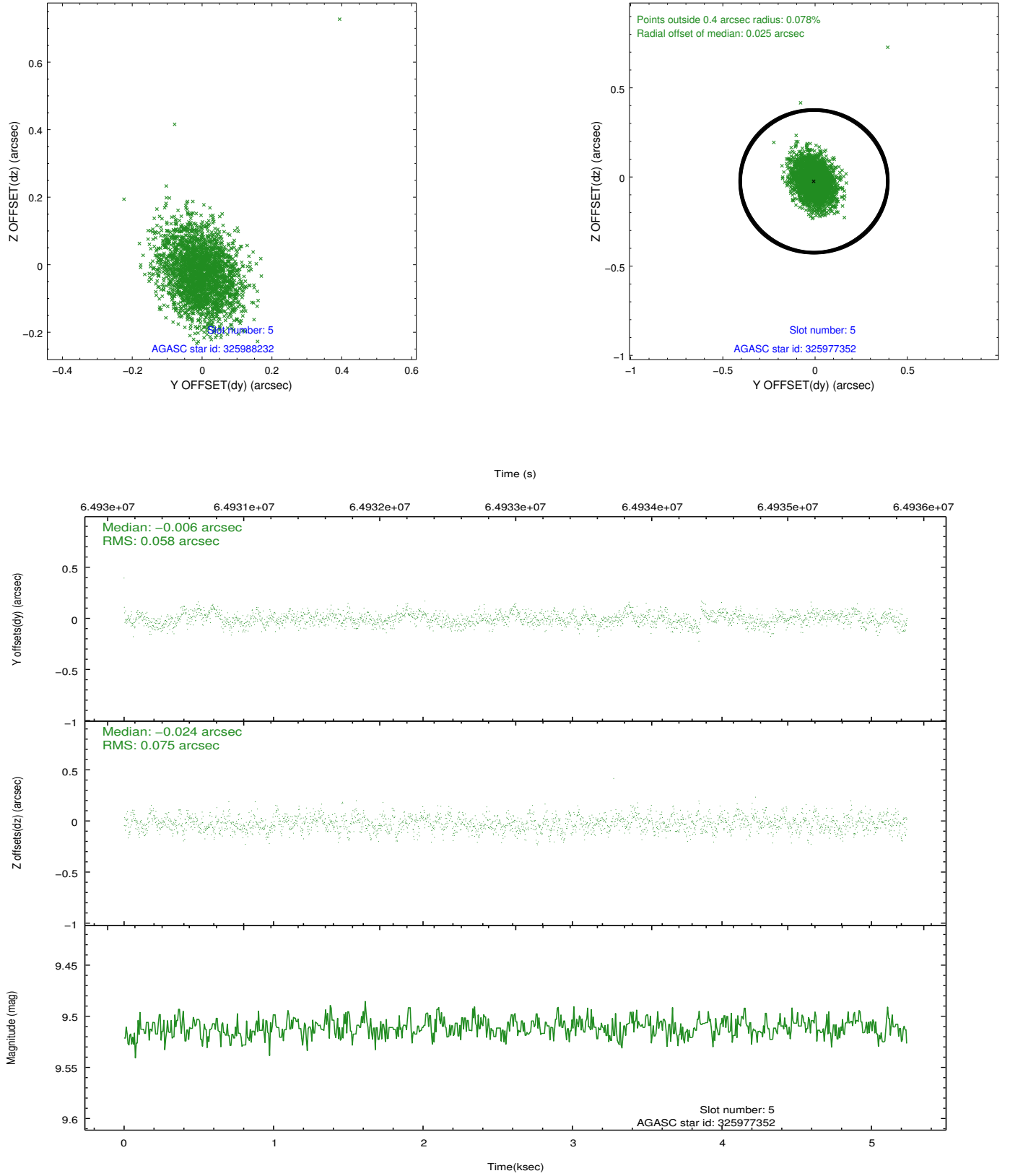
2.4.1 Slot 3



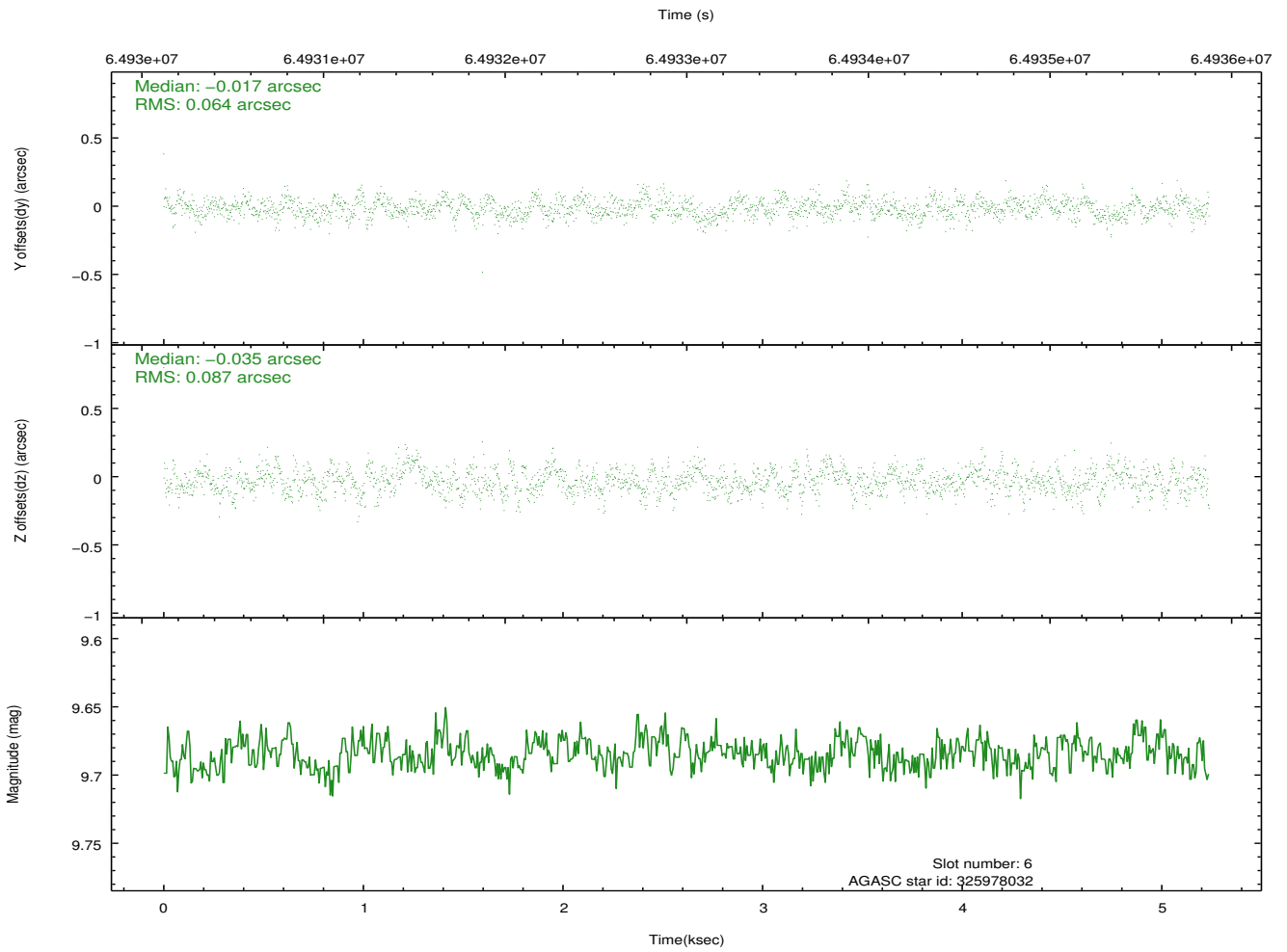
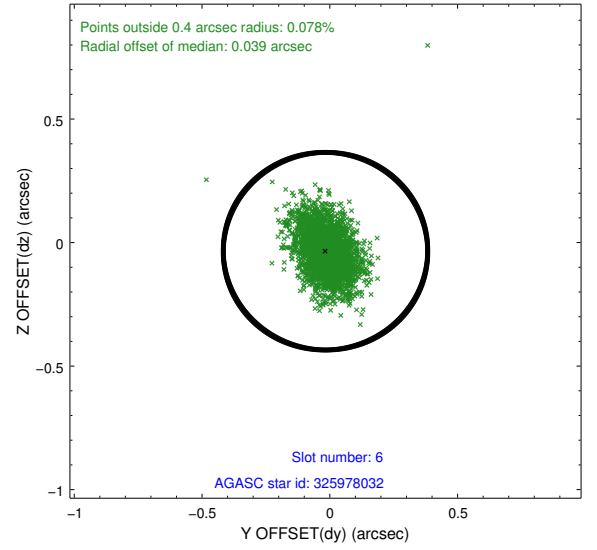
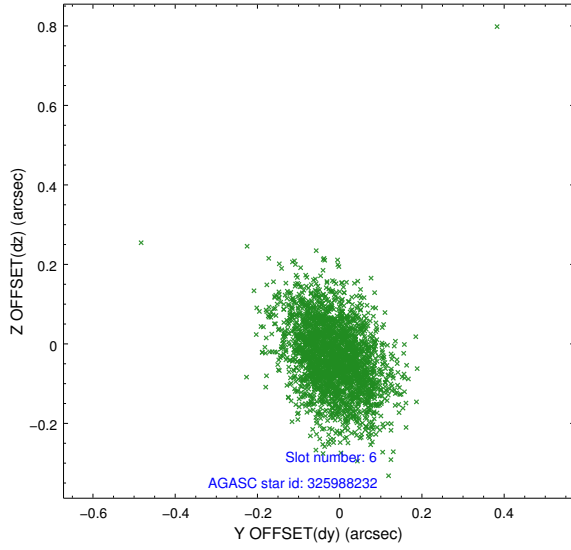
2.4.2 Slot 4



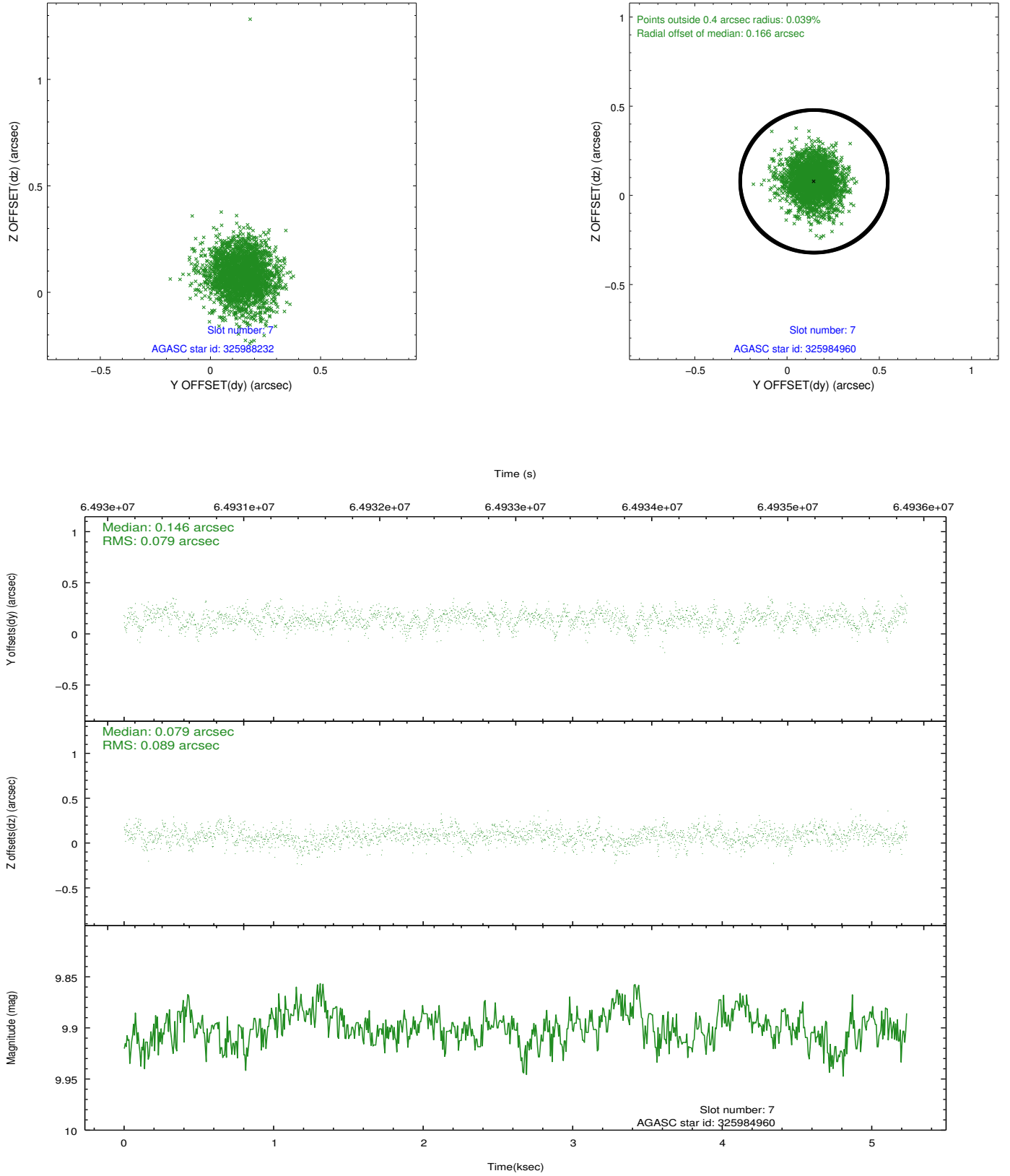
2.4.3 Slot 5



2.4.4 Slot 6

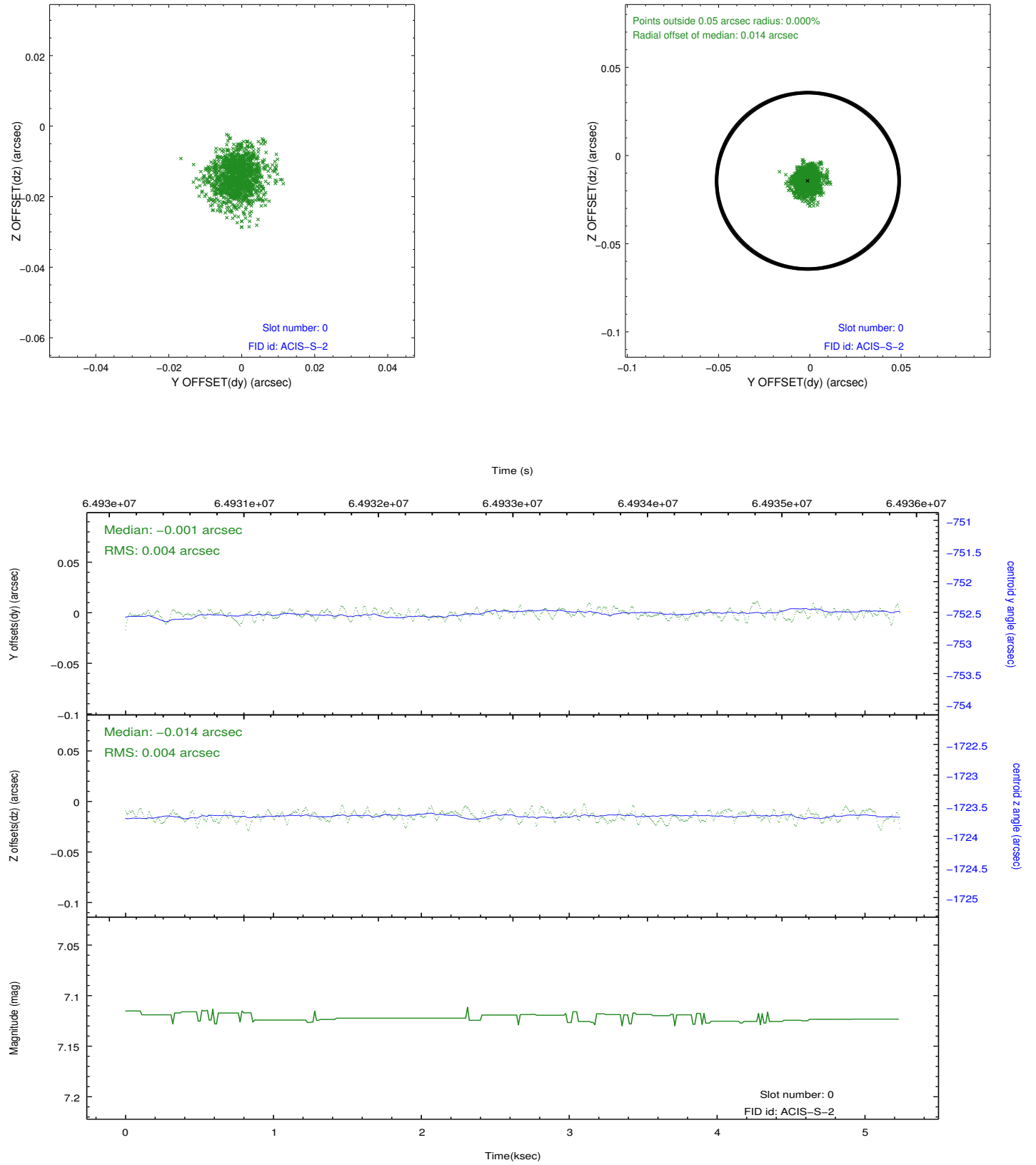


2.4.5 Slot 7

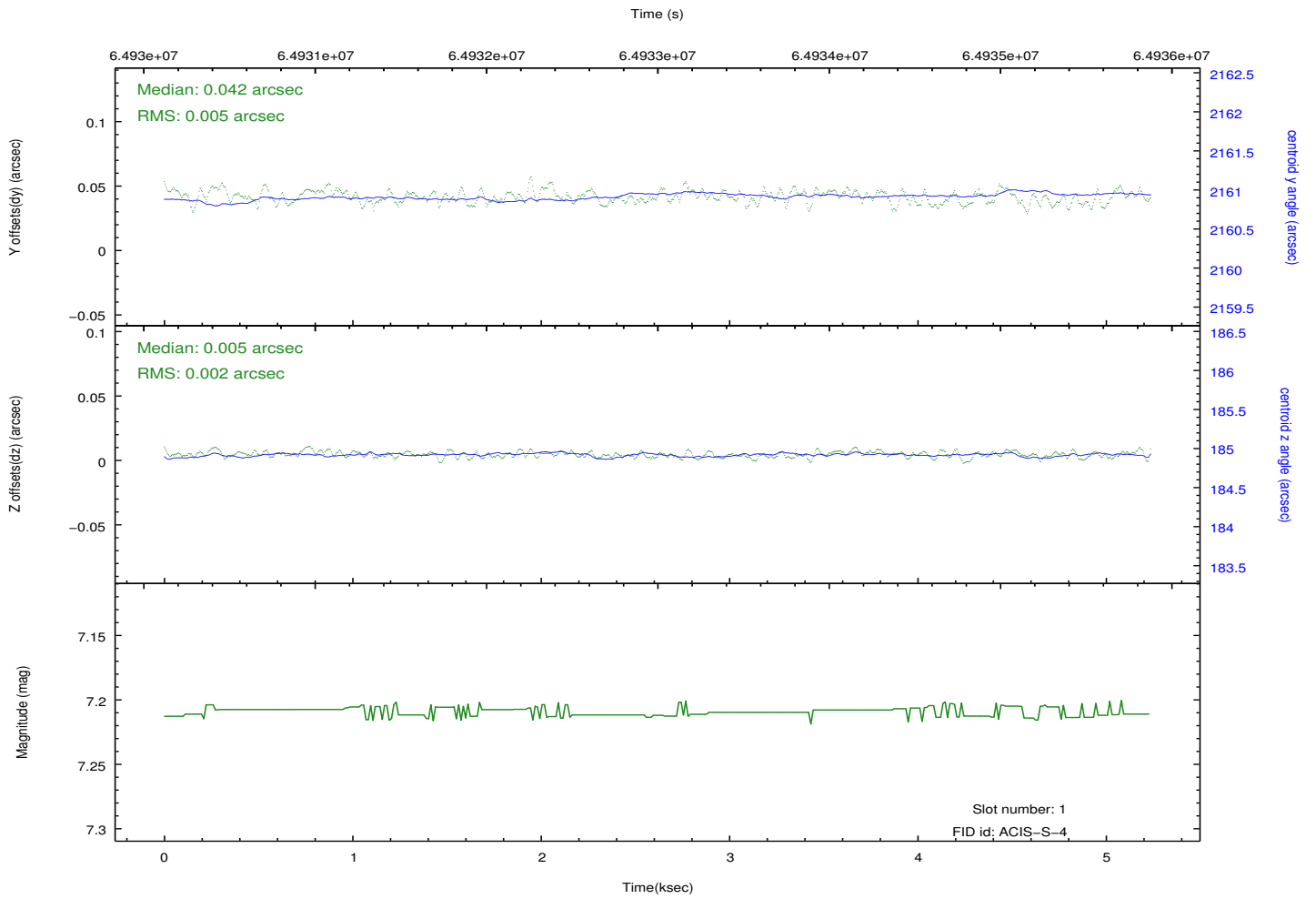
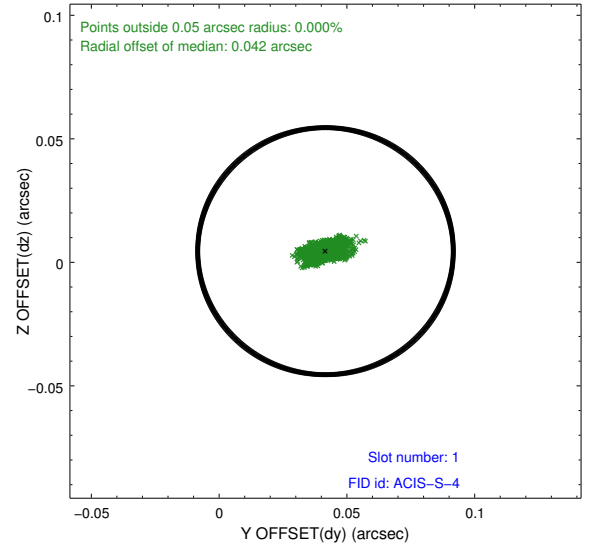
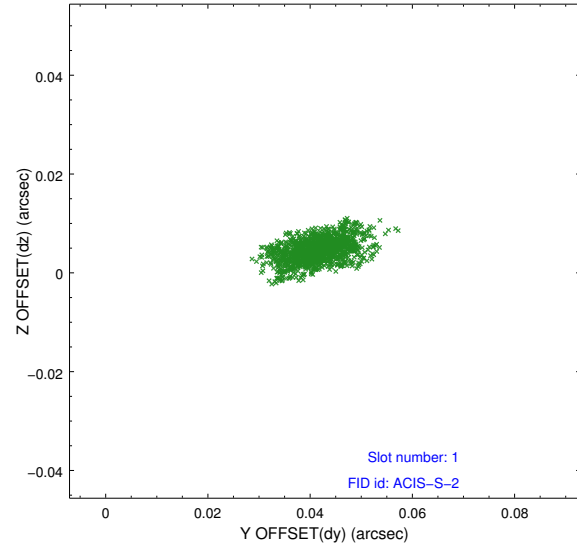


2.5 FID Slots

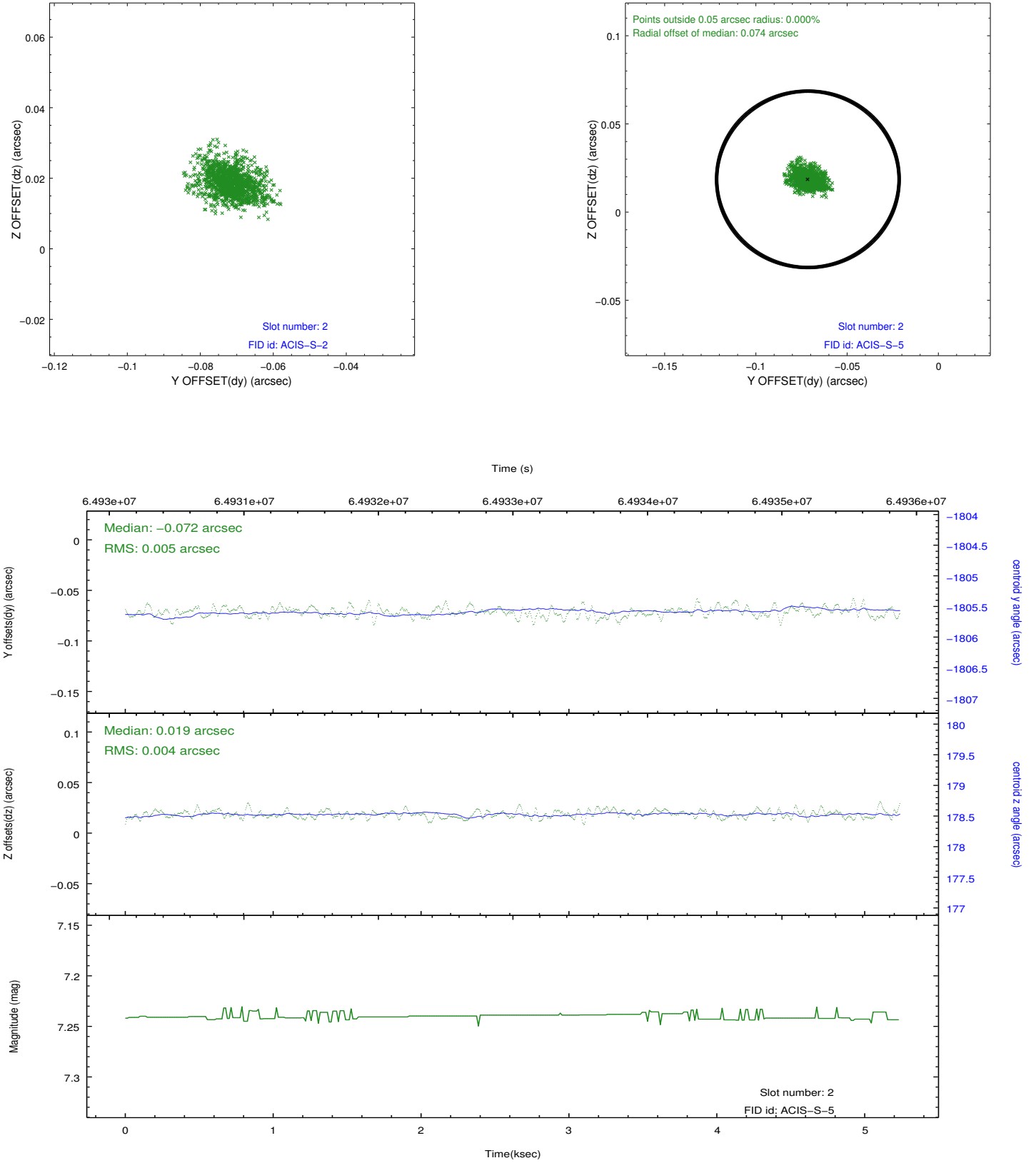
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

3.66 arcmin



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2009.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.217

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is also warmer than -116.7 degrees C for the entire observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.