

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 6090 - L2 Version 002
Chandra X-Ray Center

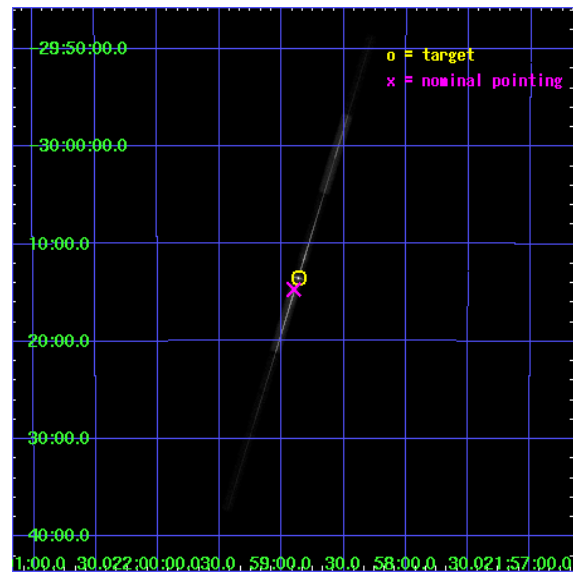
L2 Processing Date : Mar 8 2006

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1 Front

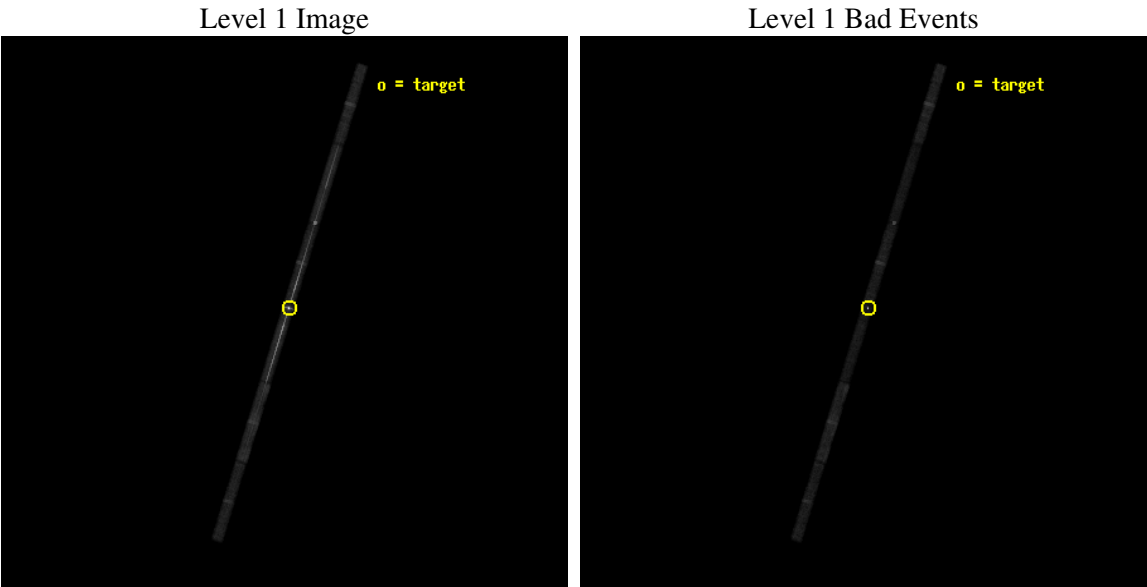
seq_num	790099
obs_id	6090
title	AO6 Calibration Observations of PKS2155-304
observer	Dr. CXC Calibration
object	PKS2155-304
dtcycle	0
cycle	P
ra_targ	329.716667
dec_targ	-30.225556
ra_nom	329.72565168741
dec_nom	-30.24514475271
roll_nom	107.21590121561
revision	2
ontime	29140.299503744
livetime	27526.462340252
ontime4	29140.299503744
ontime5	29140.299503744
ontime6	29140.299503744
ontime7	29140.299503744
ontime8	29140.299503744
ontime9	29140.299503744
l2events	210594



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 4

Chip 5

Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-08T10:22:01
revision	2

sched_exp_time	29000.000000
ontime	30738.008701056
ontime4	30738.008701056
ontime5	30738.749741048
ontime6	30738.749741048
ontime7	30738.008701056
ontime8	30738.749741048
ontime9	30738.749741048
l1events	448486

2.1.4 Events

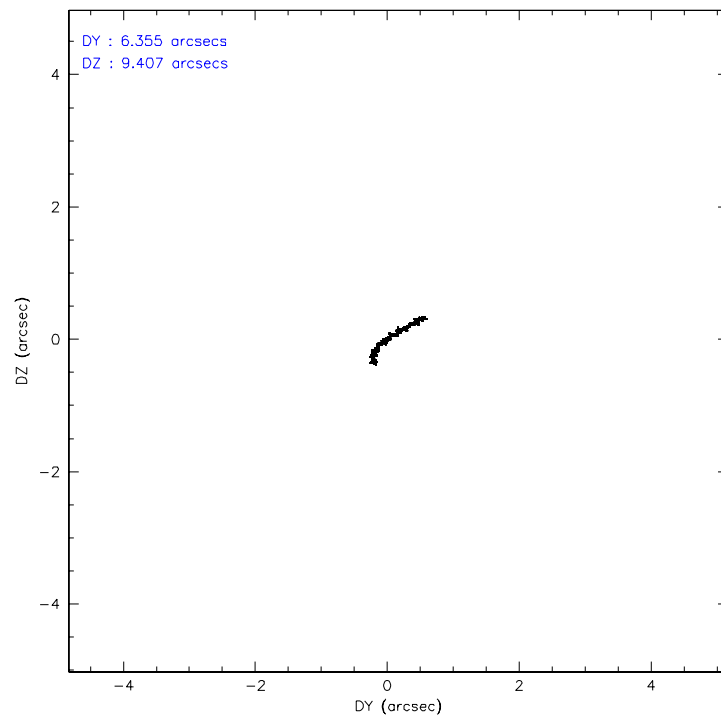
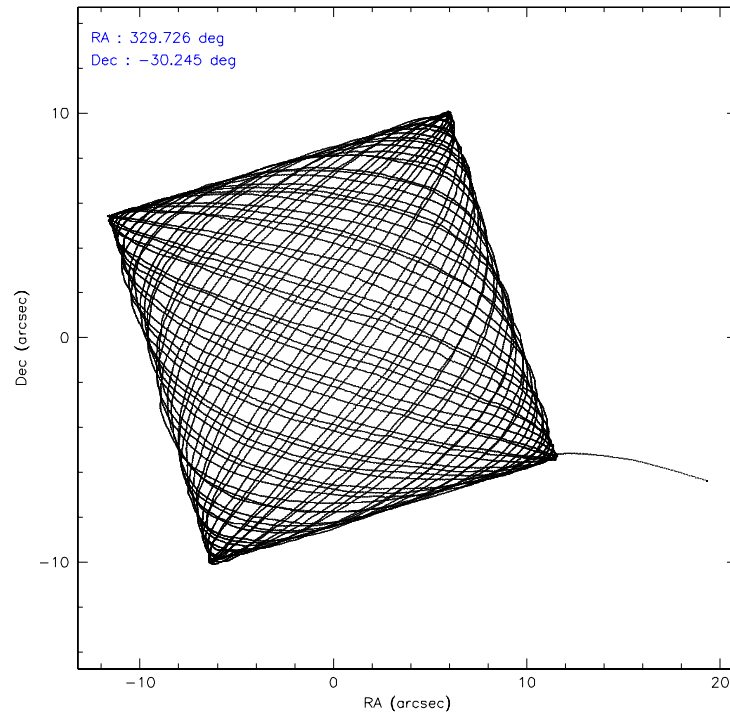
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	45298	67947	79088	163985	56247	35921
rejected events	39342	29035	33699	44691	42752	30430
rejected %	86%	42%	42%	27%	76%	84%

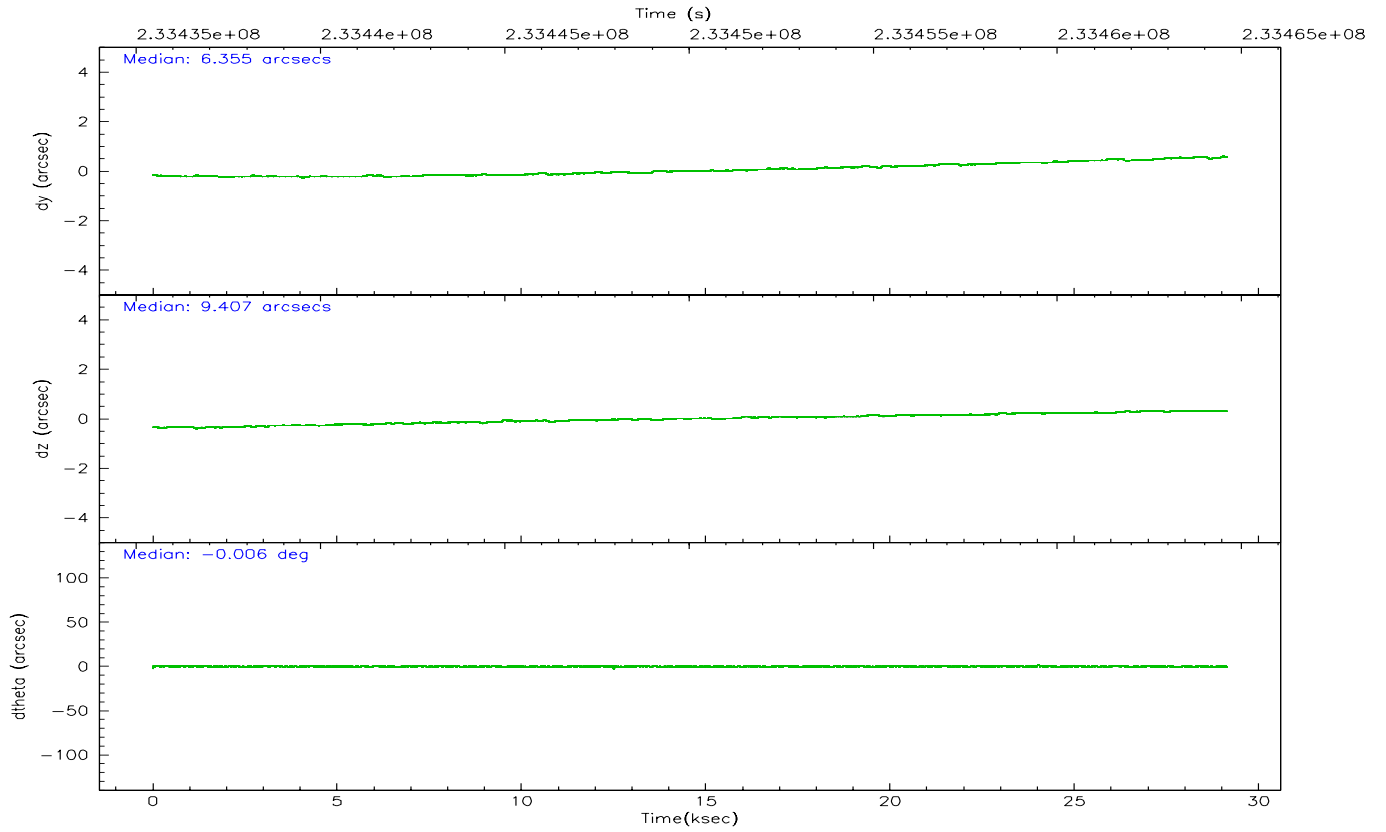
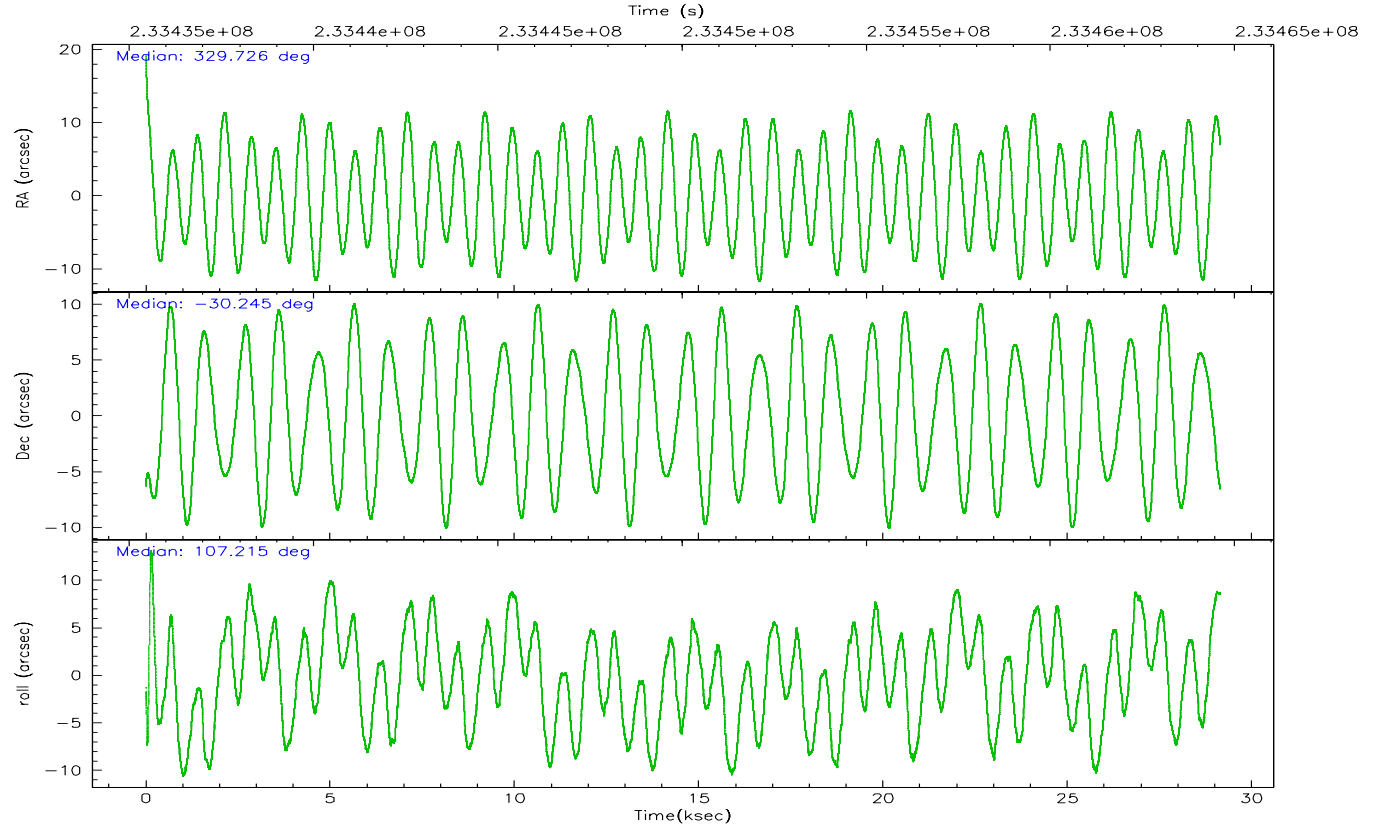
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2923	14340	35959	29879	6050	2715
	6%	21%	45%	18%	10%	7%
grade 1 events	7	1320	94	1385	24	11
	0%	1%	0%	0%	0%	0%
grade 2 events	1032	8820	4635	30048	2219	845
	2%	12%	5%	18%	3%	2%
grade 3 events	761	2264	1890	12991	1393	690
	1%	3%	2%	7%	2%	1%
grade 4 events	708	2843	1836	12665	1319	728
	1%	4%	2%	7%	2%	2%
grade 5 events	1205	4132	1232	9015	1732	1313
	2%	6%	1%	5%	3%	3%
grade 6 events	795	12885	1504	35063	3034	742
	1%	18%	1%	21%	5%	2%
grade 7 events	37867	21343	31938	32939	40476	28877
	83%	31%	40%	20%	71%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	1/8
Pointing RA	329.749062	329.7256516874117	Subarray start row	113	113
Pointing Dec	-30.263341	-30.24514475270978	Subarray row count	128	128
Pointing Roll	107.071084	107.2159012156066	Alternating exposures requested	N	N
Window start time	226022464.184000	226022464.184000	Primary exposure time	0.000000	0.7
Window stop time	239155264.184000	239155264.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.132523	-182.139514760308			
SIM translation stage offset (mm)	-8	-7.993007822699838			
Observation start time	233435603.184000	233433865.81662			
Observation start date	2005-05-25T19:12:19	2005-05-25T18:44:25			
Observation end time	233464603.184000	233466445.95561			
Observation end date	2005-05-26T03:15:39	2005-05-26T03:47:25			
Read mode	TIMED	TIMED			

2.3 Aspect



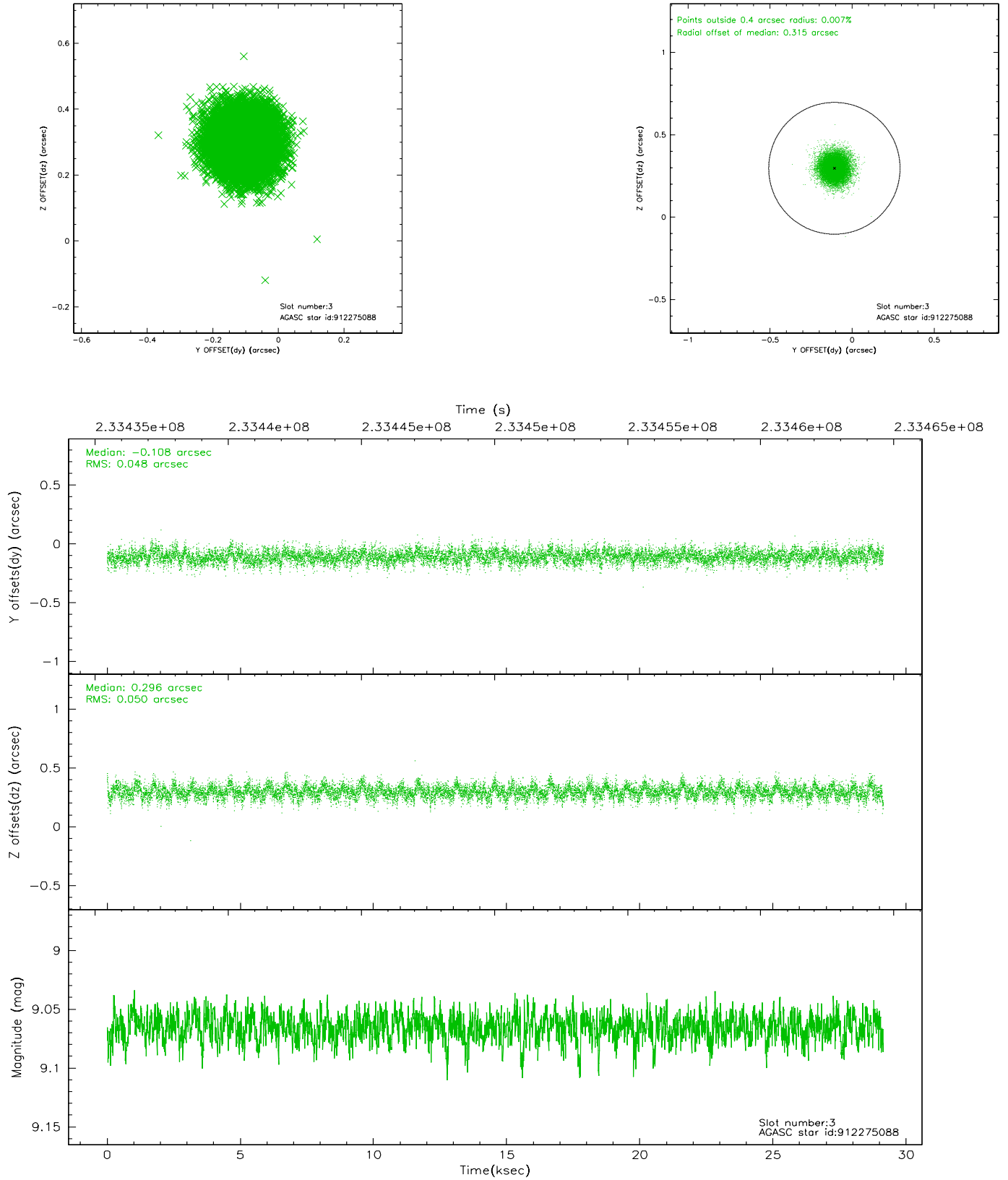


Slot Statistics

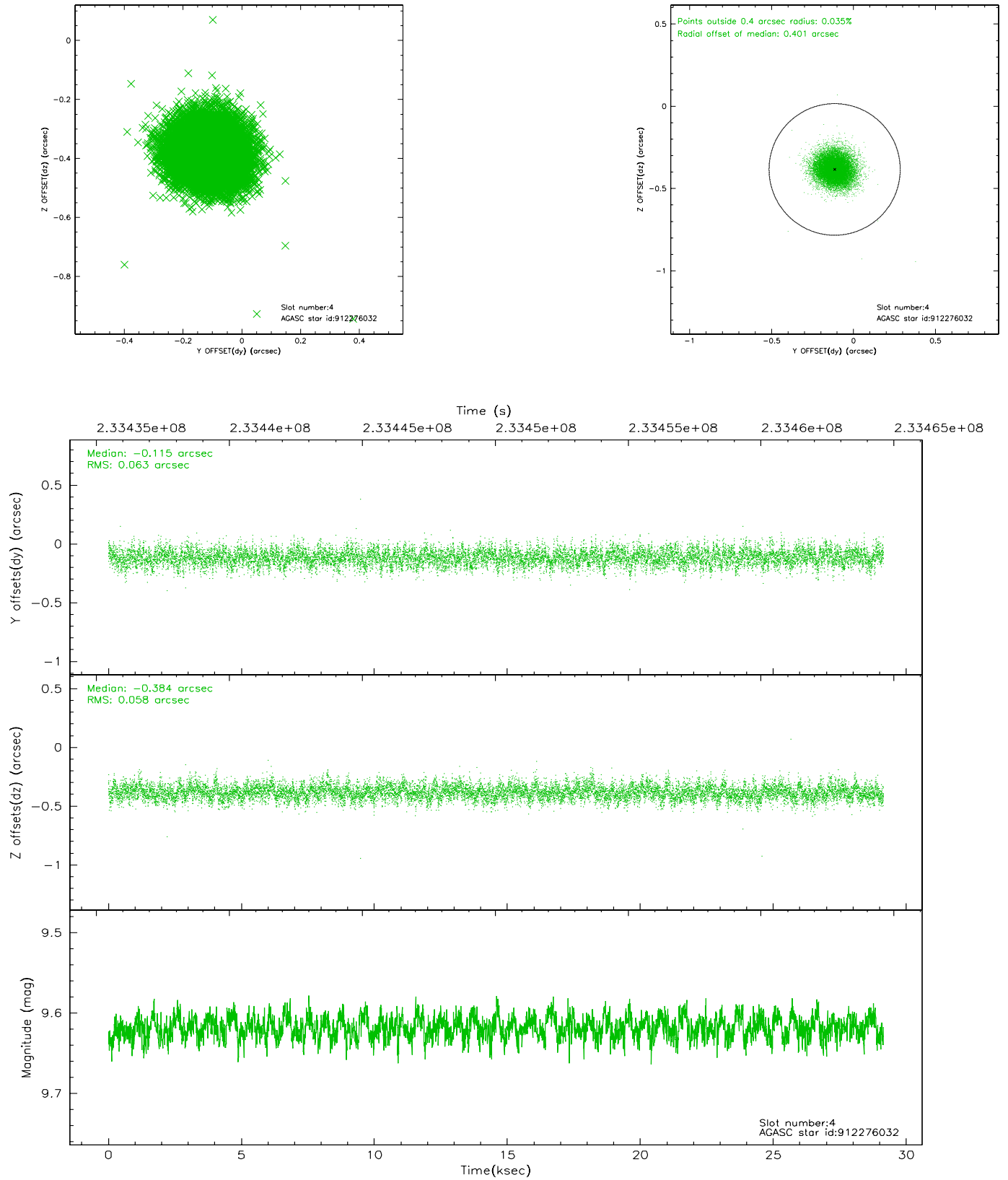
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	7108	0.002	0.132	0.011	0.016	0.000000	0.000000	937.48	-1890.79
1	FID	ACIS-S-5	7.23	7107	-0.077	0.025	0.012	0.019	0.000000	0.000000	-1811.56	6.53
2	FID	ACIS-S-6	7.41	7107	0.053	-0.146	0.014	0.023	0.000000	0.000000	402.99	650.42
3	GUIDE	912275088	9.07	14213	-0.108	0.296	0.074	0.121	329.619228	-29.738698	1924.63	-165.97
4	GUIDE	912276032	9.62	14208	-0.115	-0.384	0.091	0.147	329.395967	-29.803466	1905.10	568.70
5	GUIDE	981468128	9.35	14208	0.289	0.197	0.092	0.159	329.756350	-30.158334	355.34	-132.39
6	GUIDE	981469488	9.59	14206	-0.150	-0.051	0.111	0.175	329.261199	-30.045155	1194.22	1223.78
7	GUIDE	981478152	9.39	14203	0.085	-0.059	0.100	0.161	329.415589	-30.057192	1013.47	776.03

2.4 Star Slots

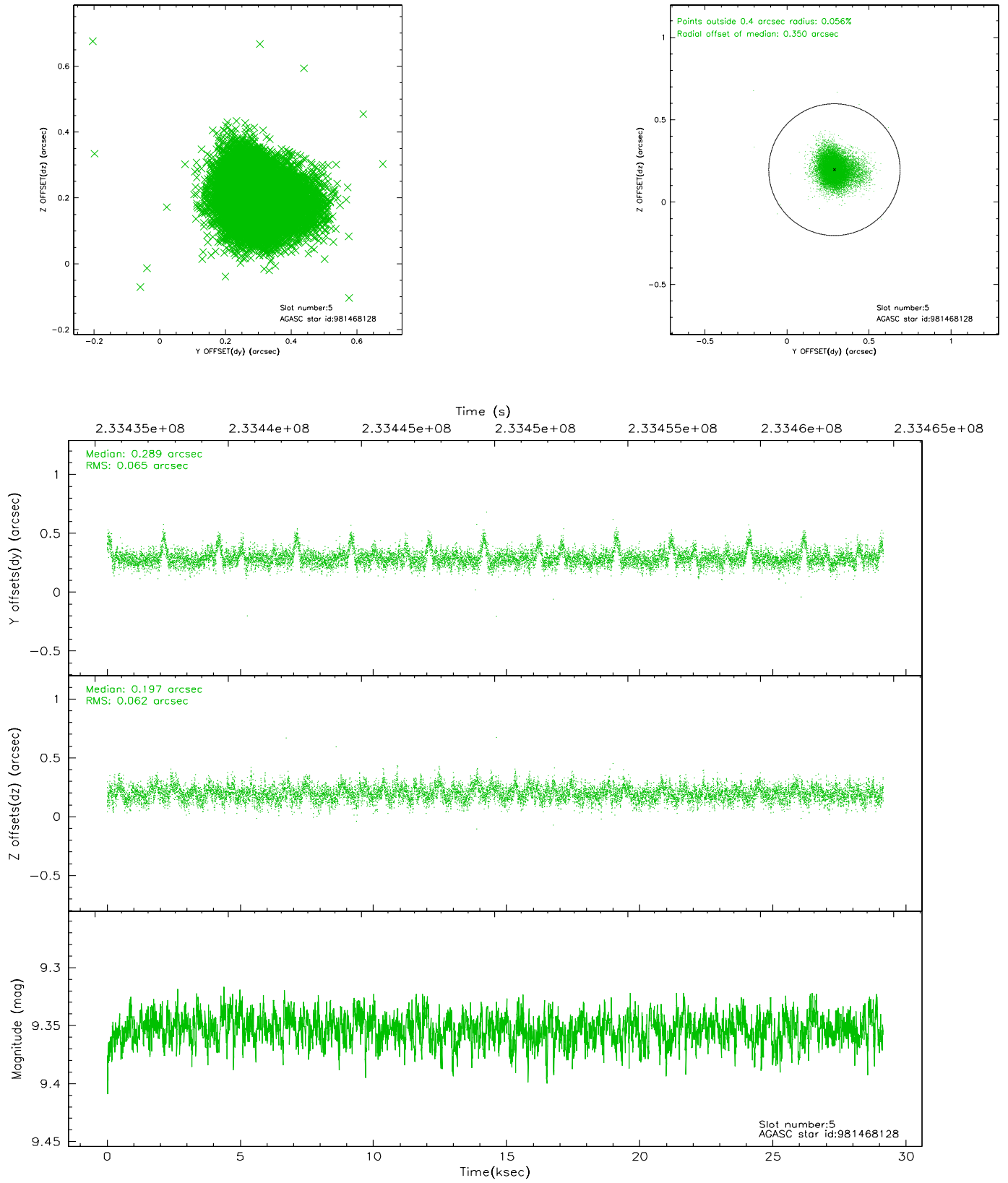
2.4.1 Slot 3



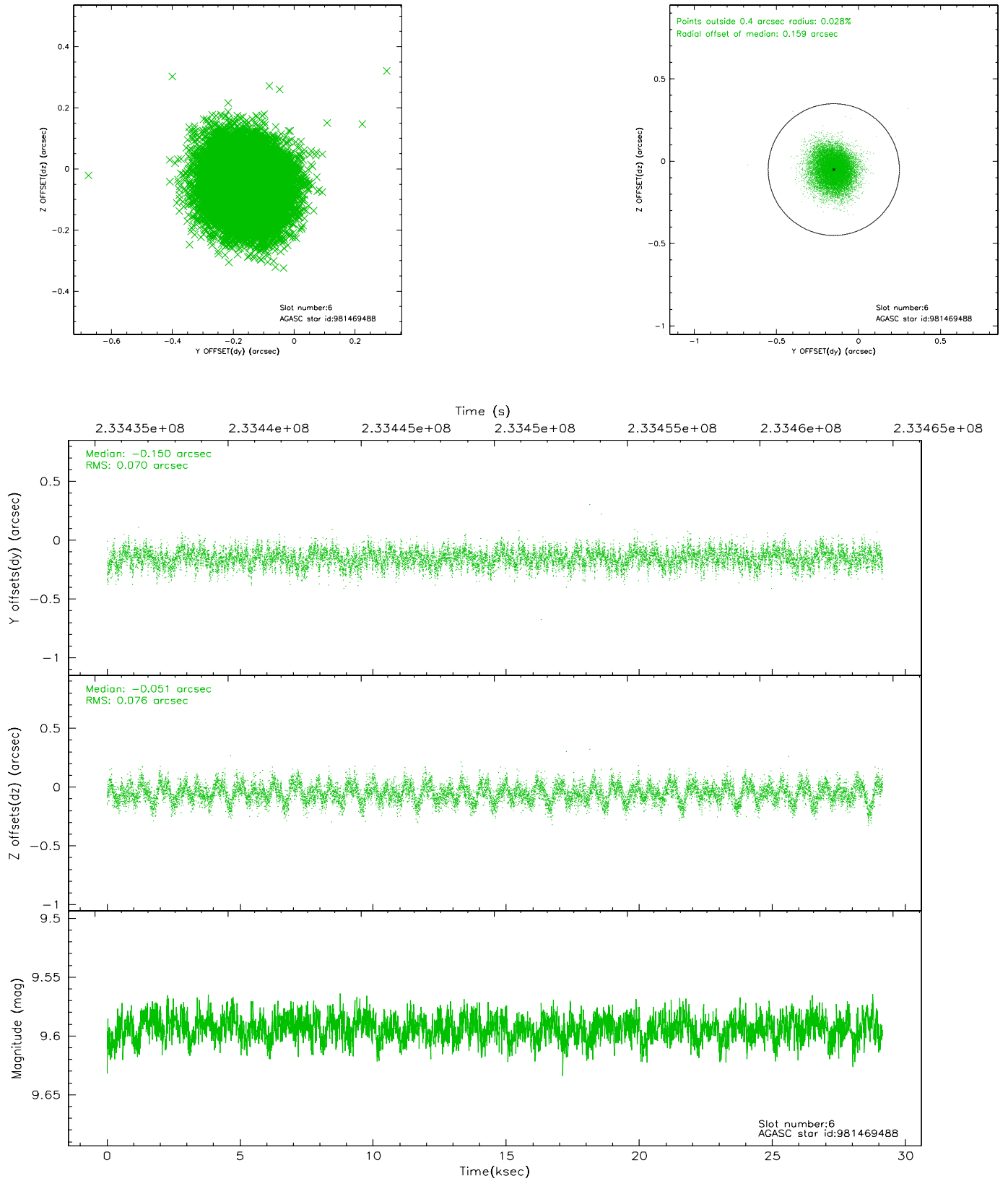
2.4.2 Slot 4



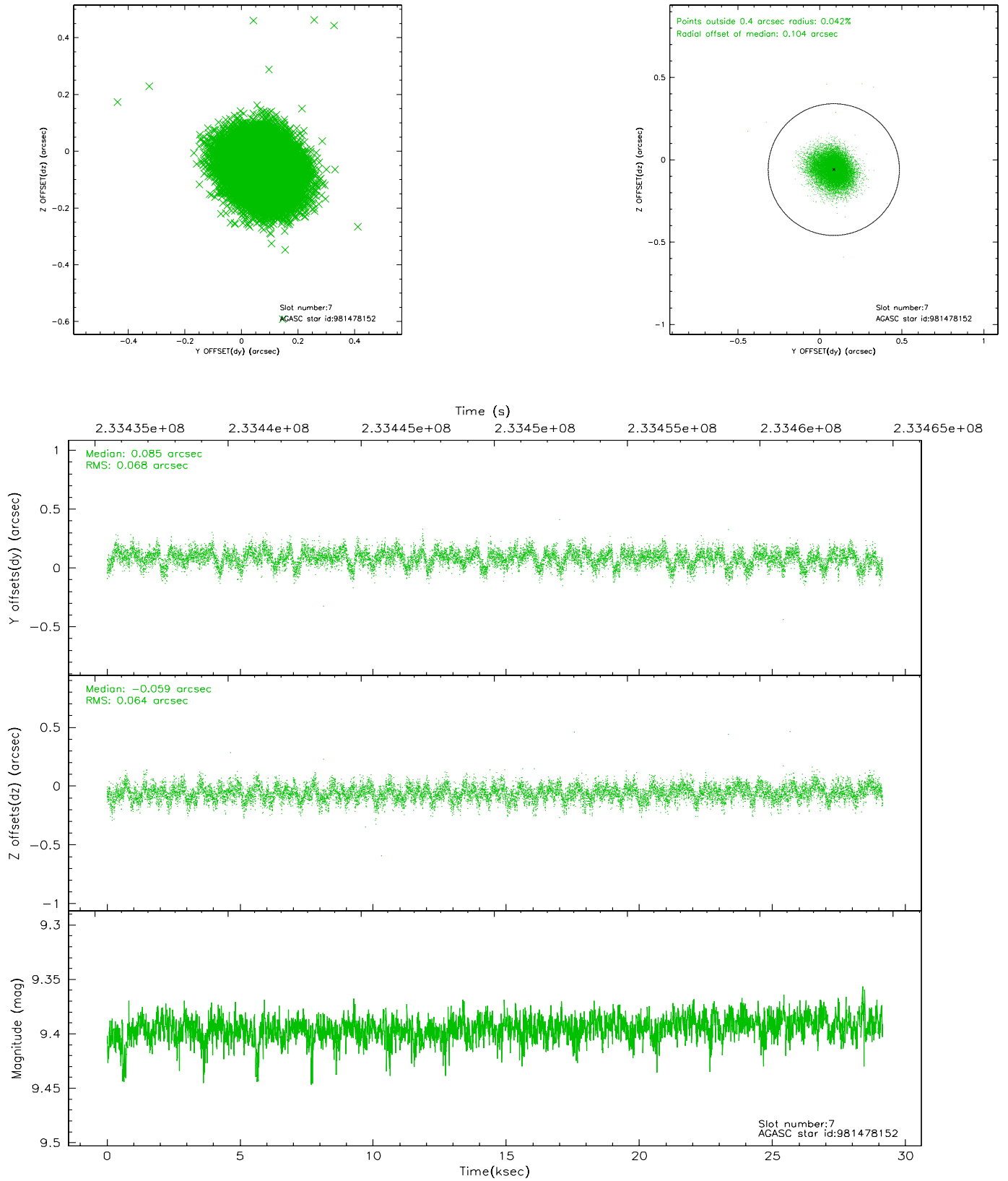
2.4.3 Slot 5



2.4.4 Slot 6

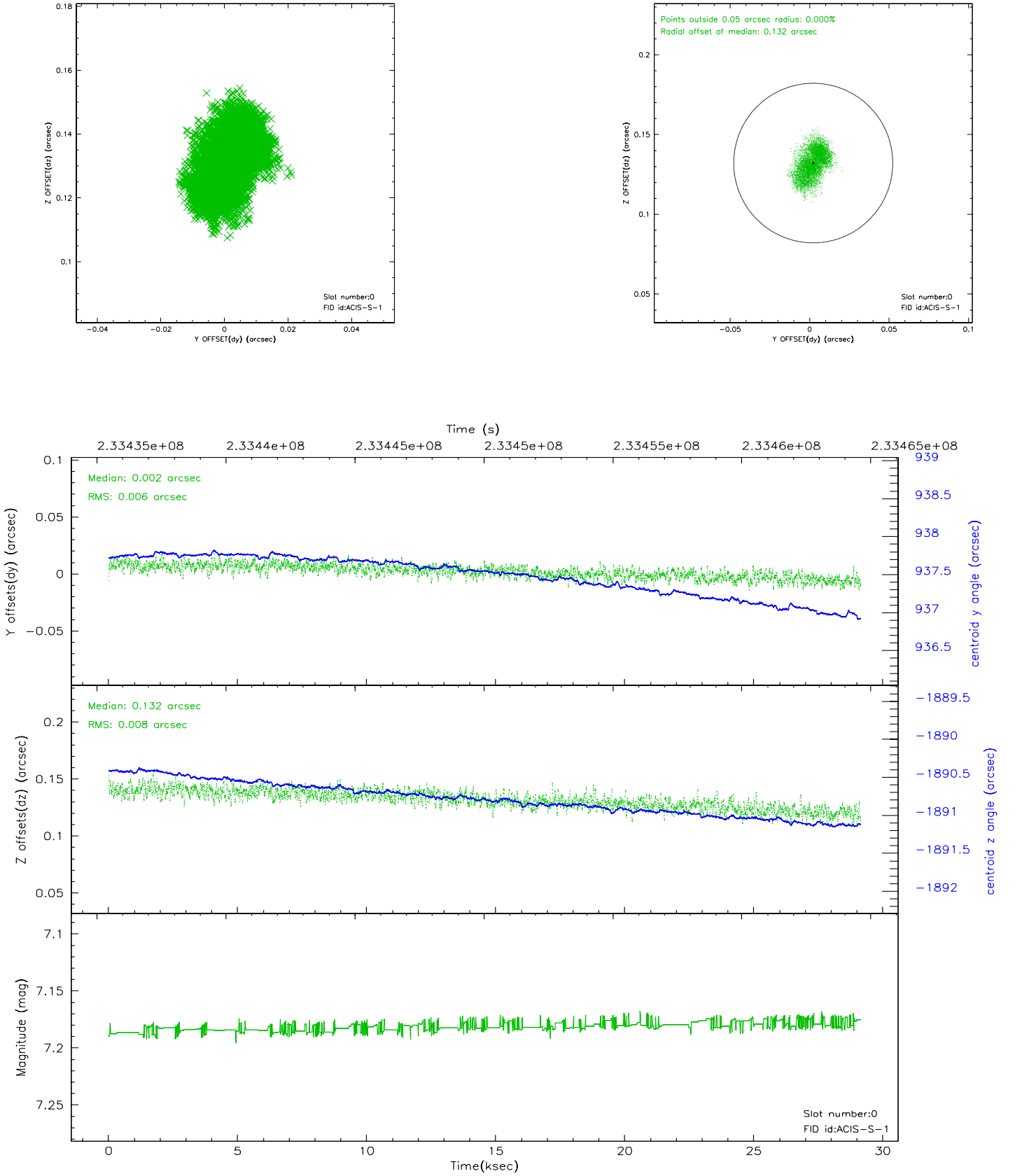


2.4.5 Slot 7

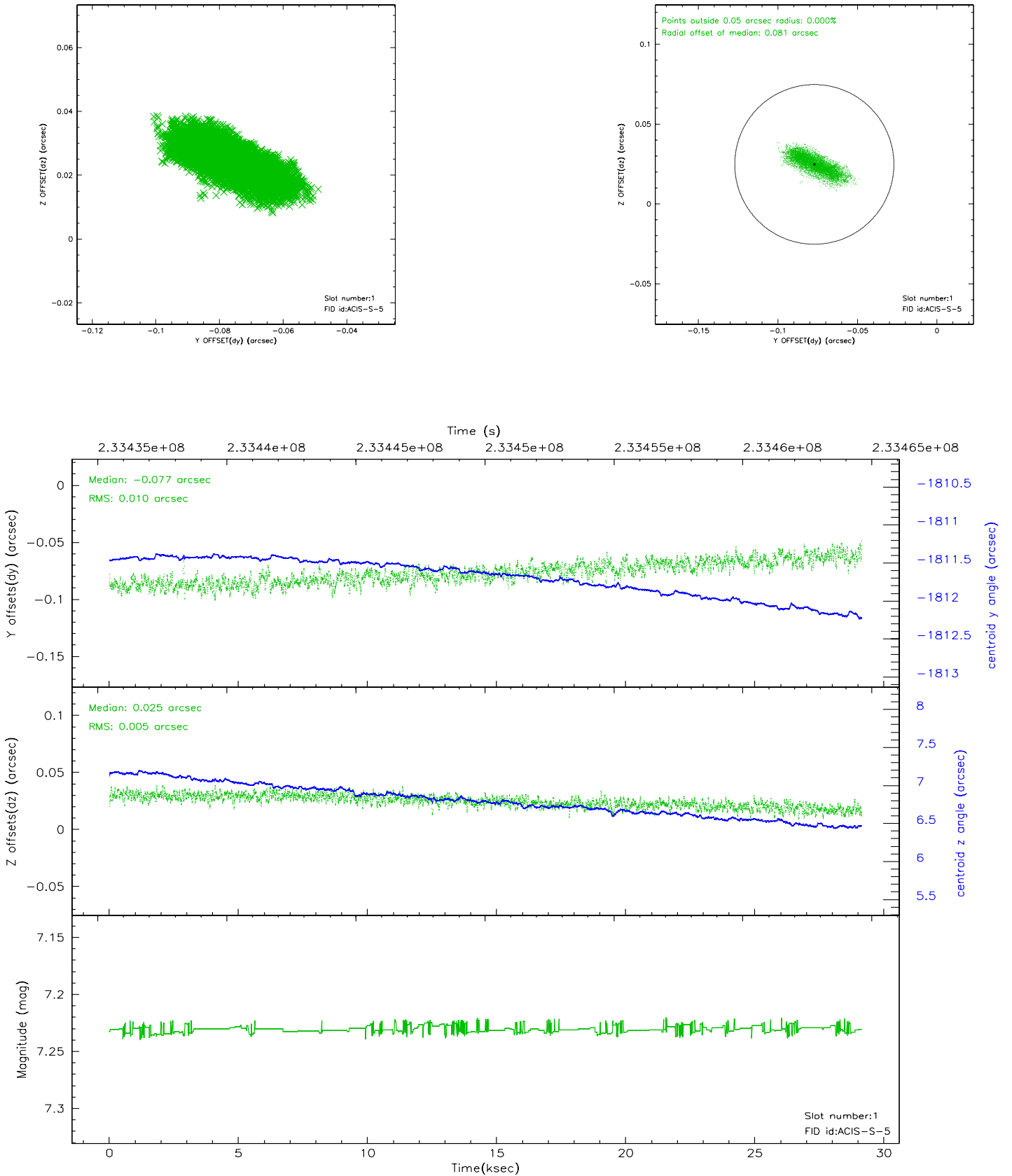


2.5 FID Slots

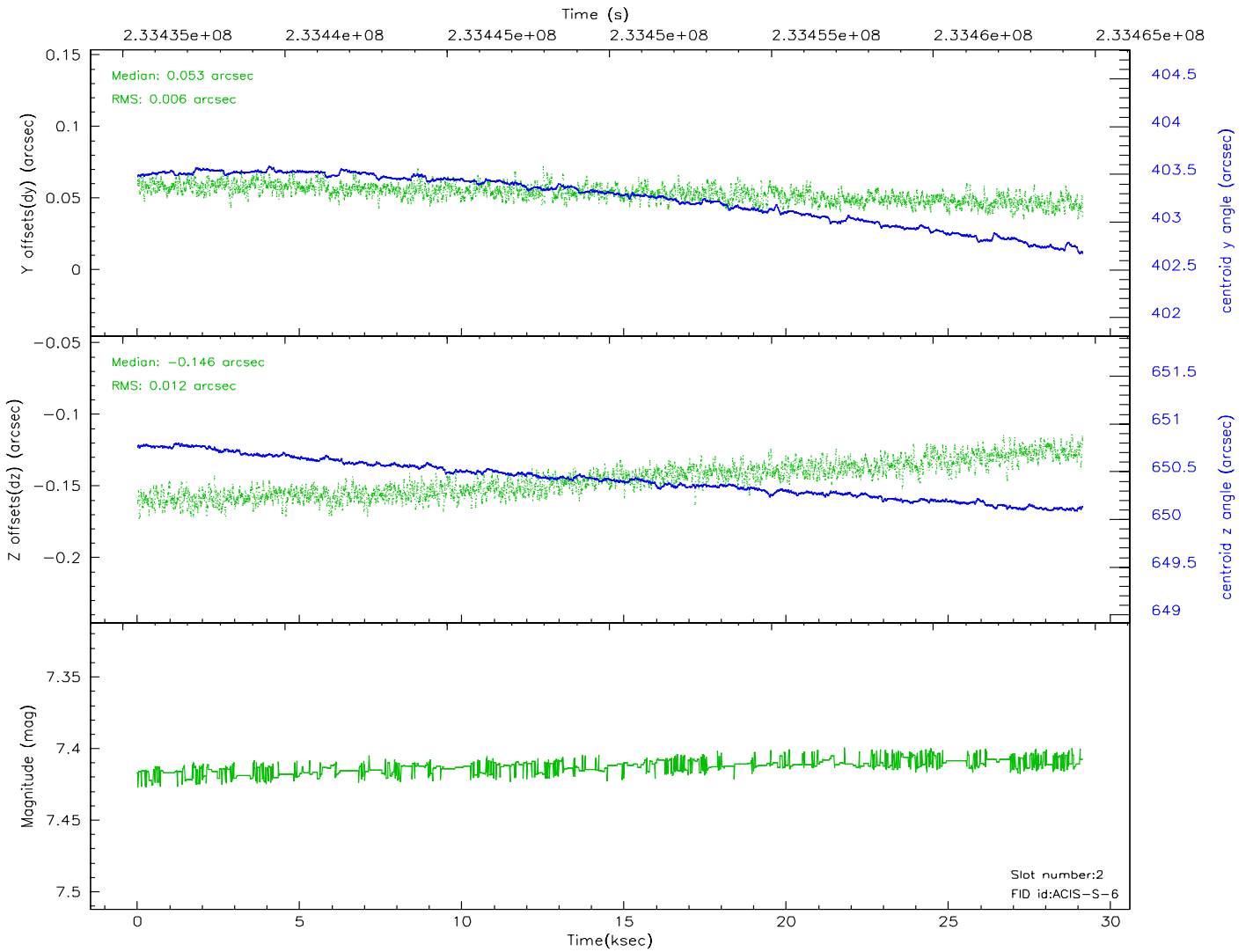
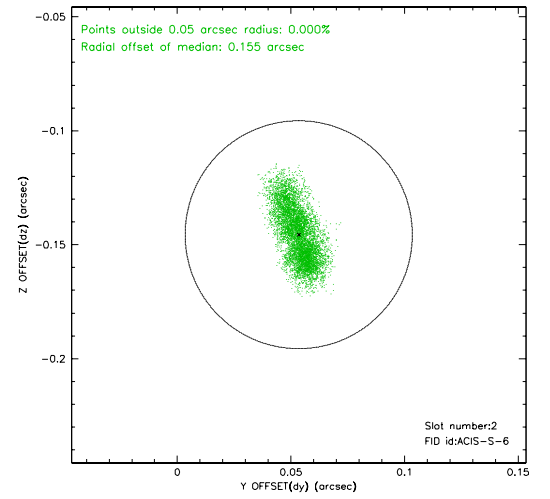
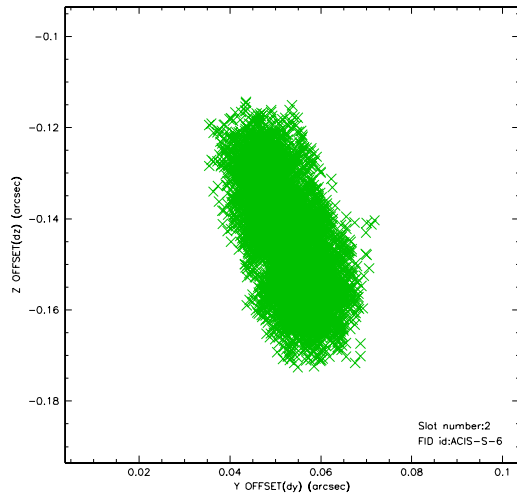
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

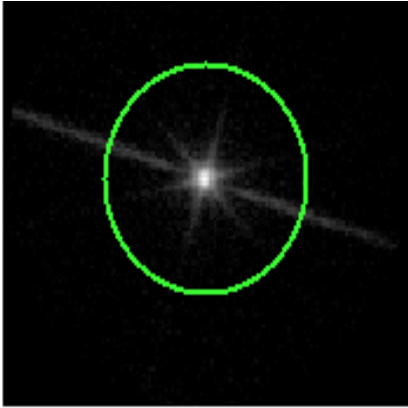


3 Gratings

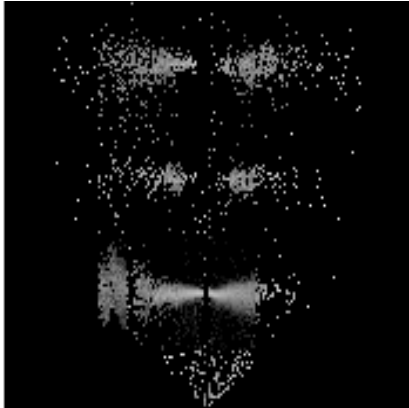
3.1 LETG Arm



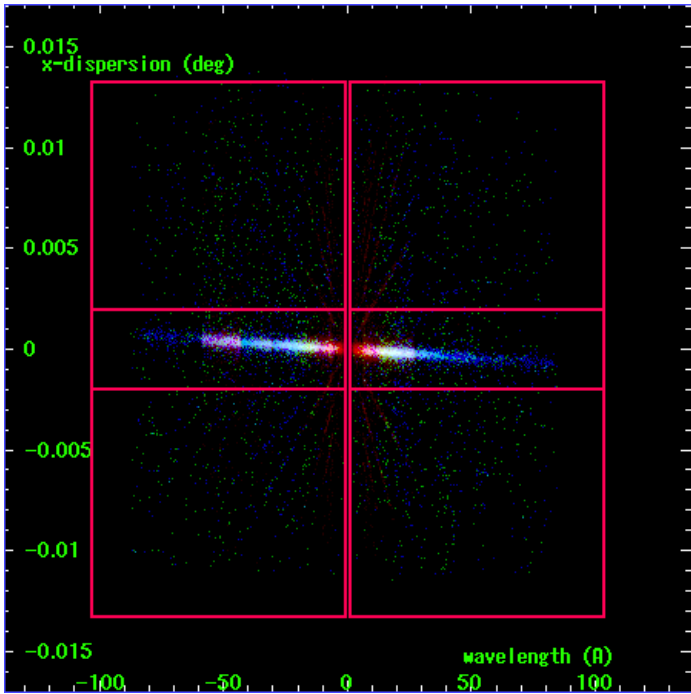
LETG Order Sort 123



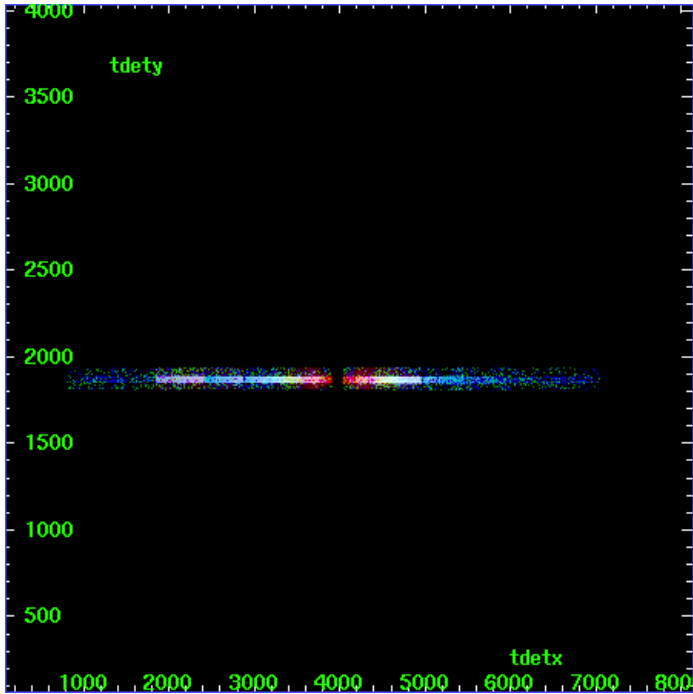
LETG Zero Order



LETG Order Sort ALL

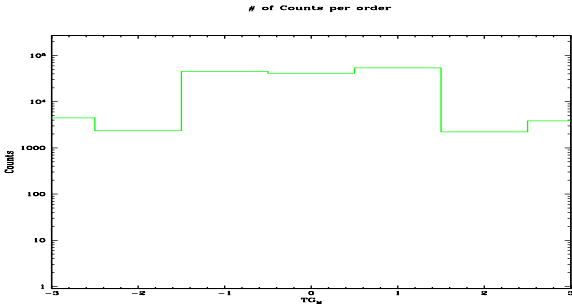


Spot Image LETG

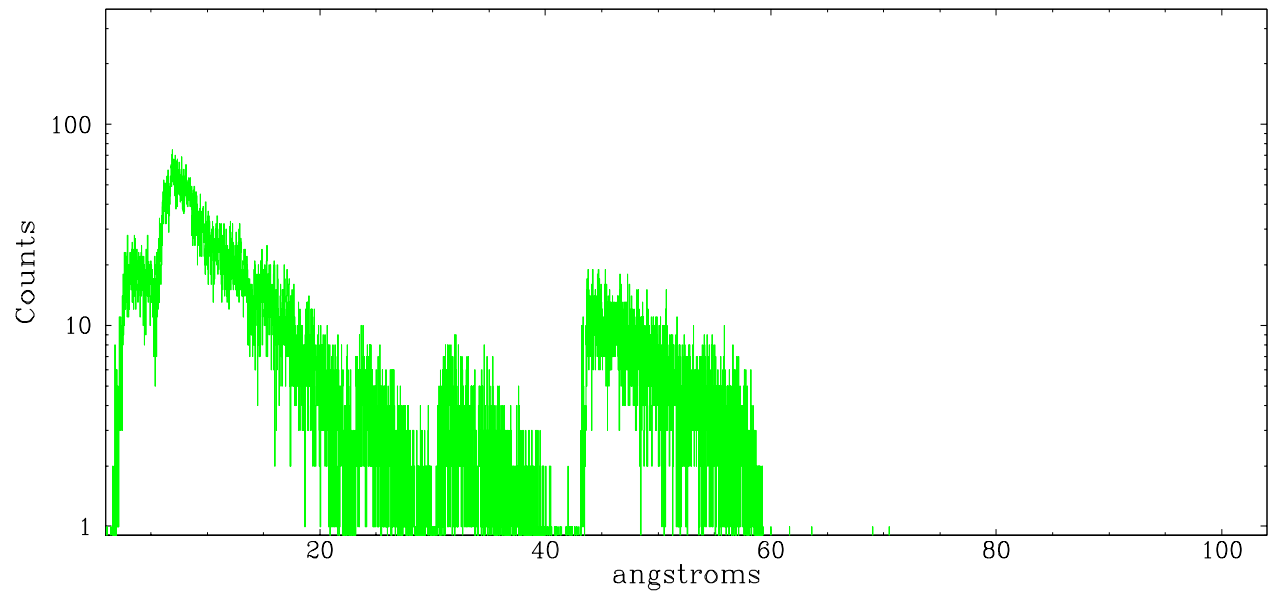


Full Detector LETG

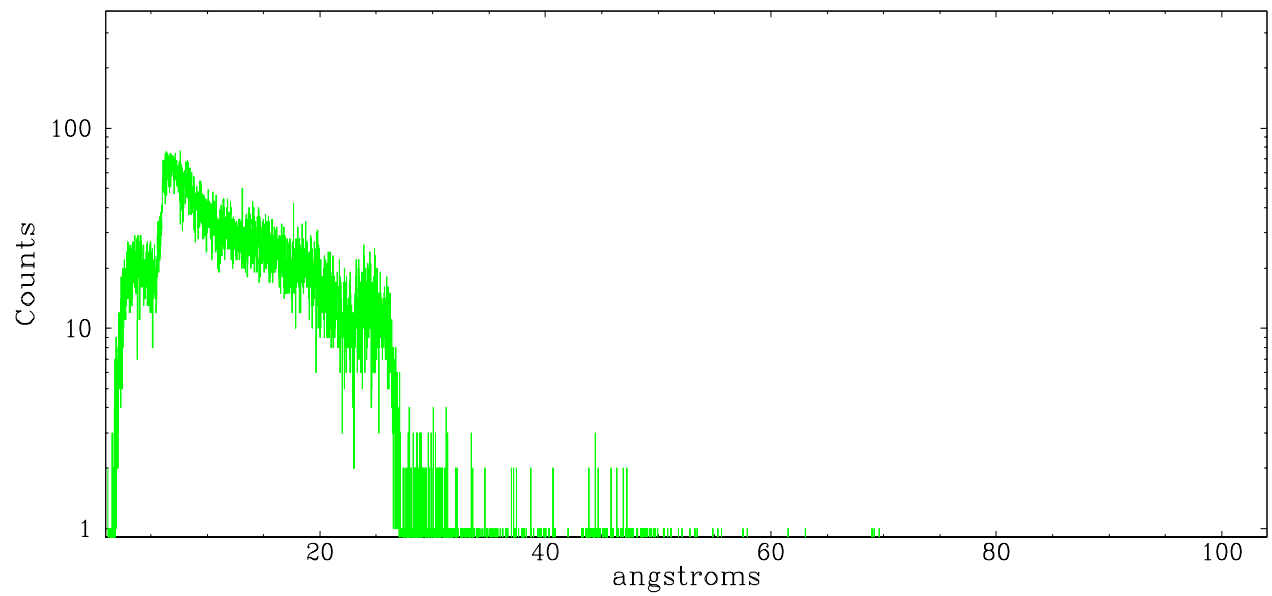
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	4454	2351	45362	41256	53779	2225	3861



leg order -1



leg order +1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.03.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.14029

A.2 Comments

Window constraint satisfied.