

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 2783 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jan 11 2007

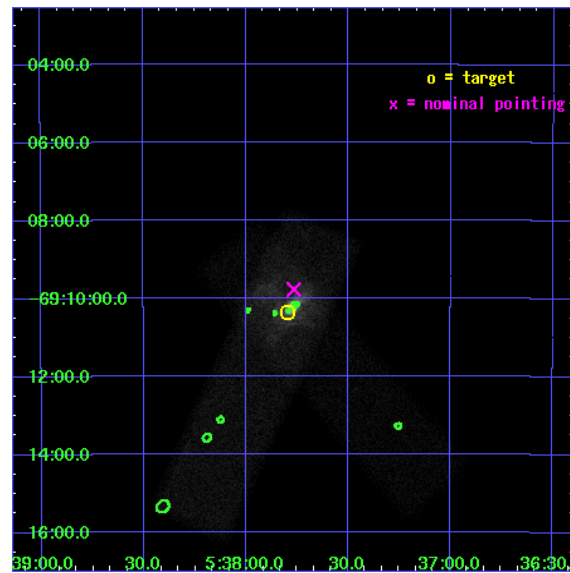
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1 Front

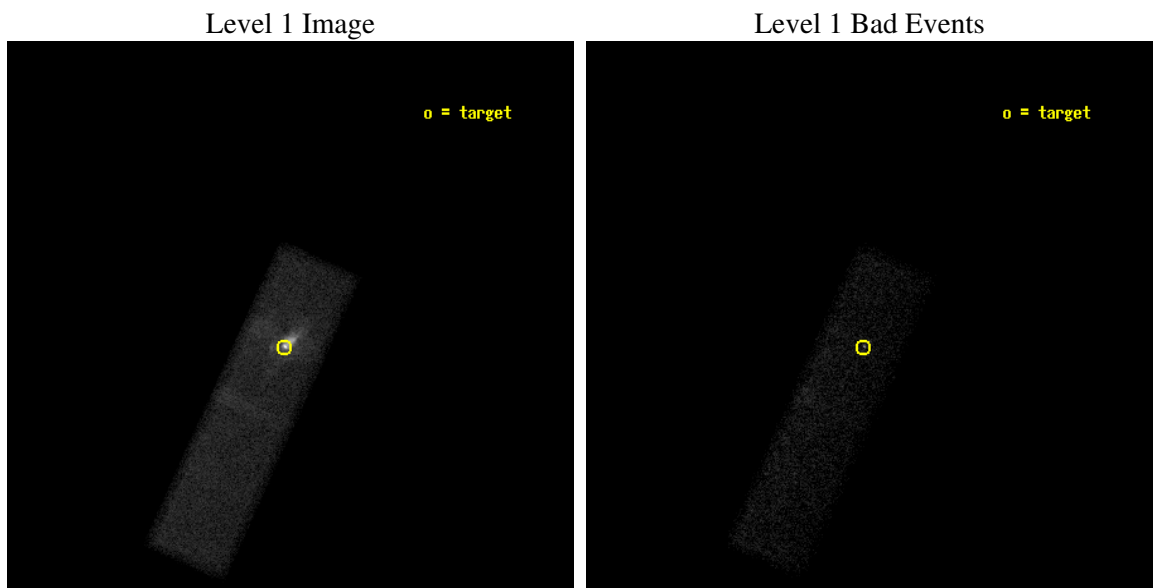
seq_num	500233
obs_id	2783
title	X-RAY SPECTROSCOPY OF SNR N157B, ITS PULSAR AND WIND NEBULA
observer	Prof. Q. Daniel Wang
object	SNR N157B
dtcycle	0
cycle	P
ra_targ	84.448333
dec_targ	-69.172222
ra_nom	84.441546178846
dec_nom	-69.162838921161
roll_nom	114.60434548046
revision	4
ontime	50654.995654613
livetime	48183.197616868
ontime7	50654.995654613
l2events	129934



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1
ascdsver	7.6.10
caldbver	3.3.0
date	2007-01-11T22:44:18
revision	2

sched_exp_time	45000.000000
ontime	29933.436365902
ontime7	29933.436365902
l1events	130729

2.1.4 Events

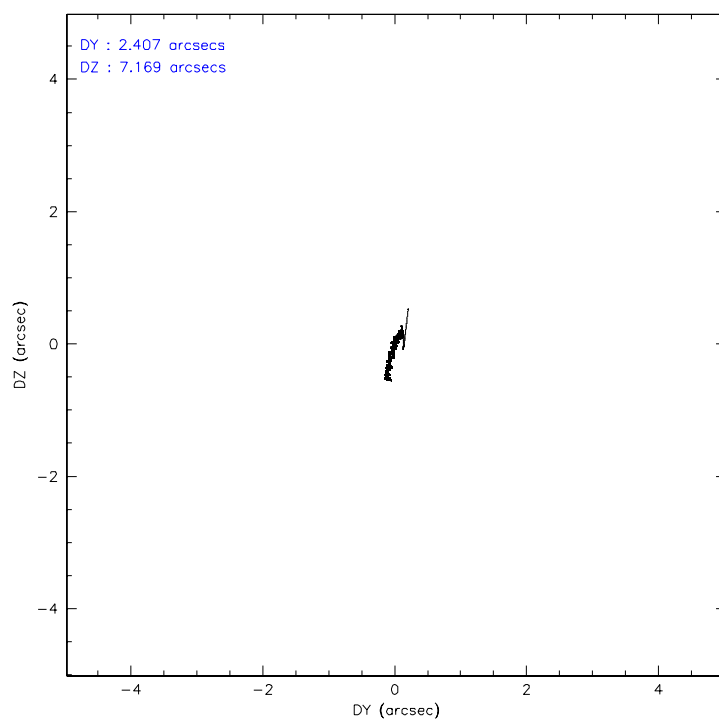
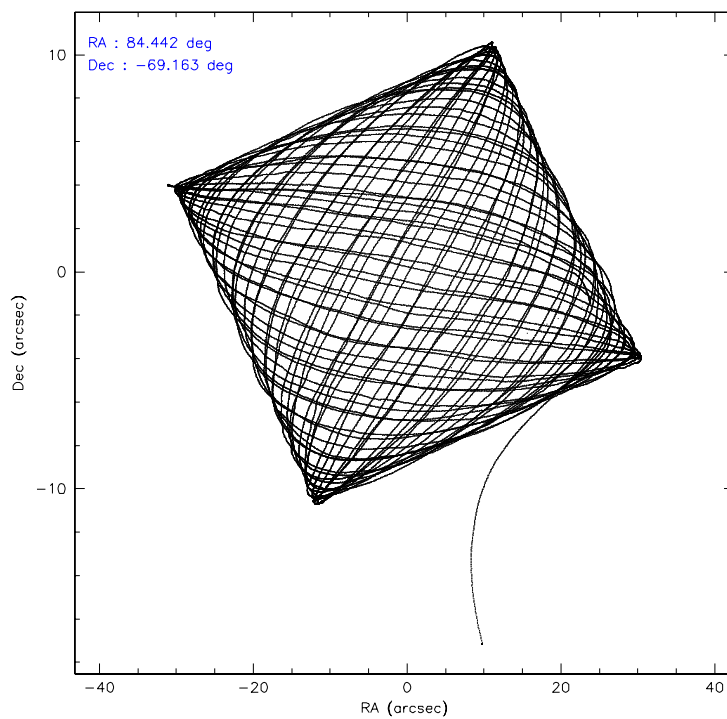
	ccd 7
level 1 events	130729
rejected events	45977
rejected %	35%

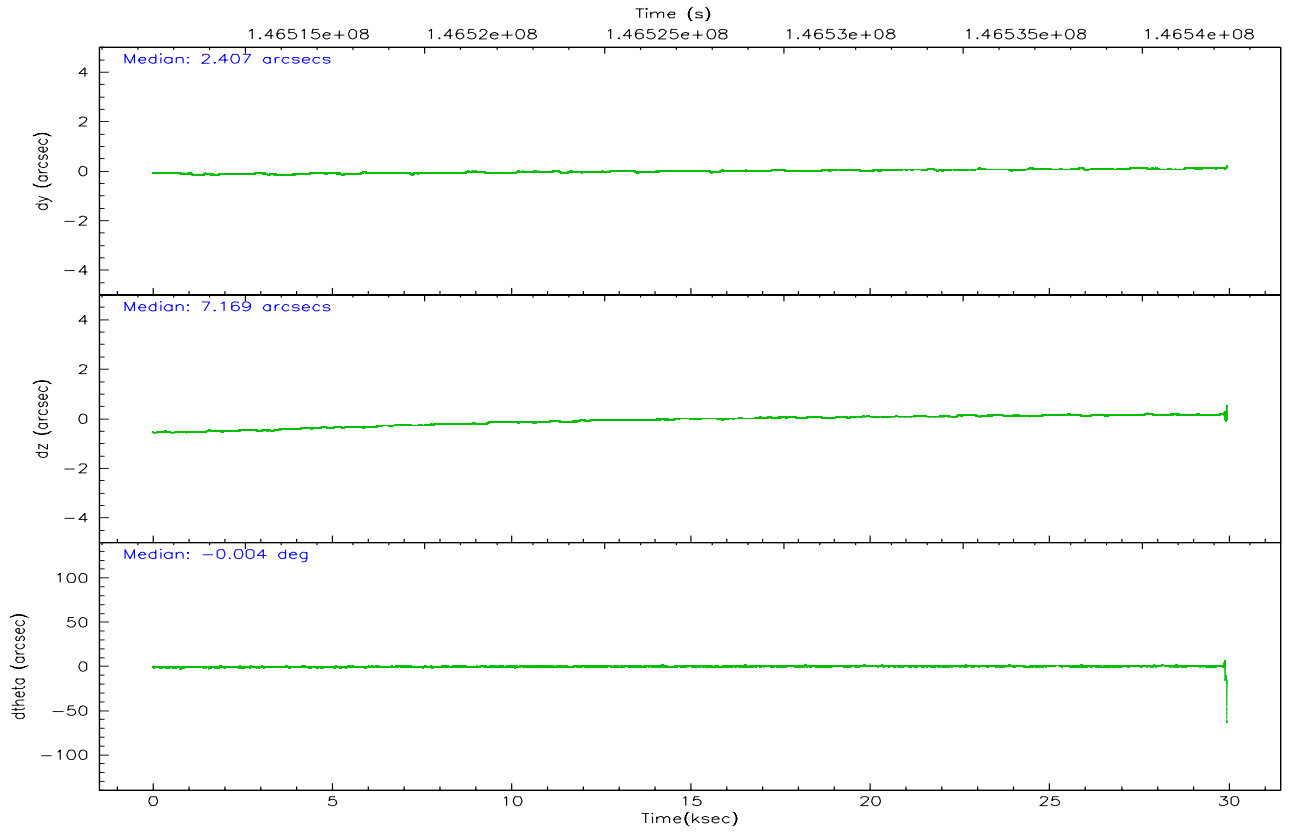
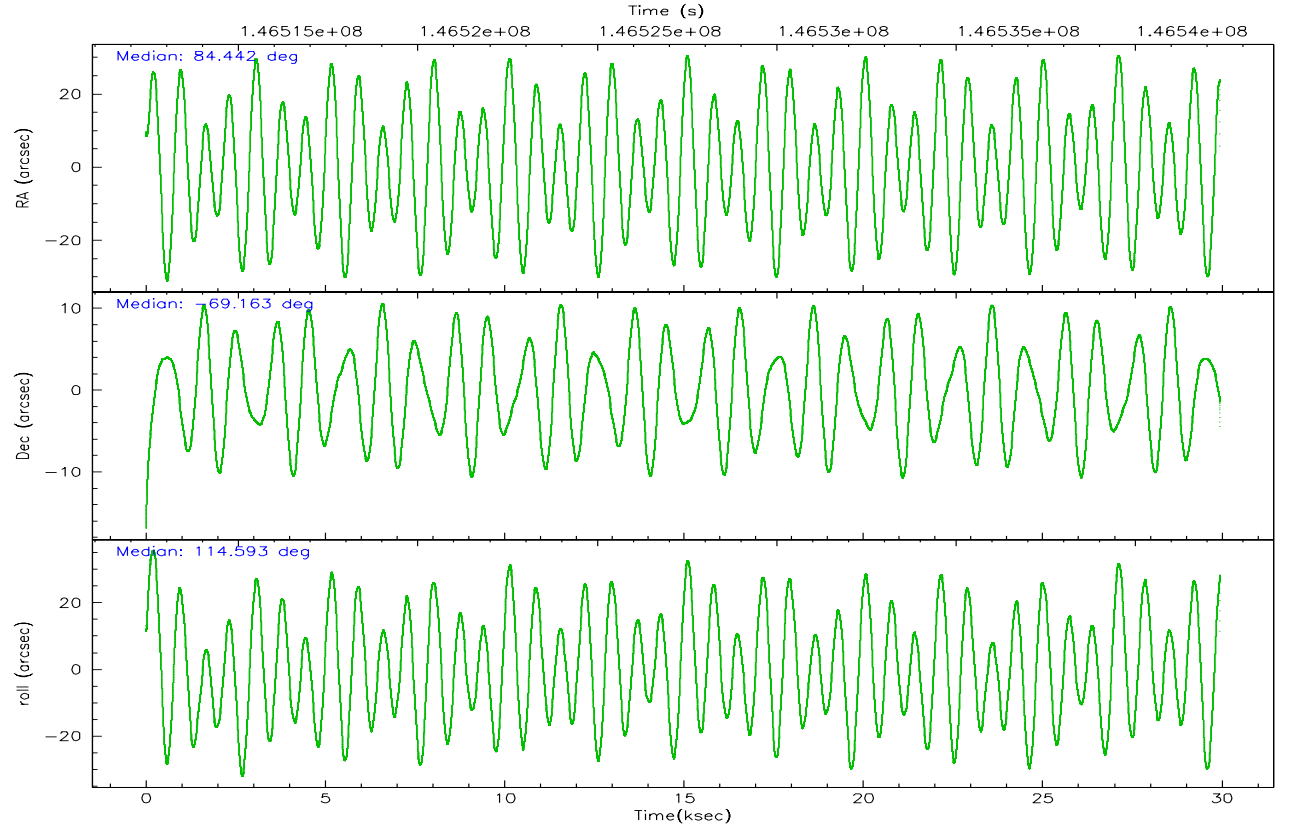
	ccd 7
grade 0 events	16513
	12%
grade 1 events	458
	0%
grade 2 events	20839
	15%
grade 3 events	10435
	7%
grade 4 events	10030
	7%
grade 5 events	7830
	5%
grade 6 events	28614
	21%
grade 7 events	36010
	27%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	84.504572	84.44154617884645	Subarray requested	1/4	1/4
Pointing Dec	-69.178321	-69.16283892116107	Subarray start row	0	385
Pointing Roll	114.506624	114.6043454804598	Subarray row count	1024	256
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	0.8
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	146512583.184000	146511491.2124			
Observation start date	2002-08-23T17:55:19	2002-08-23T17:38:11			
Observation end time	146557583.184000	146542386.76367			
Observation end date	2002-08-24T06:25:19	2002-08-24T02:13:06			
Read mode	TIMED	TIMED			

2.3 Aspect



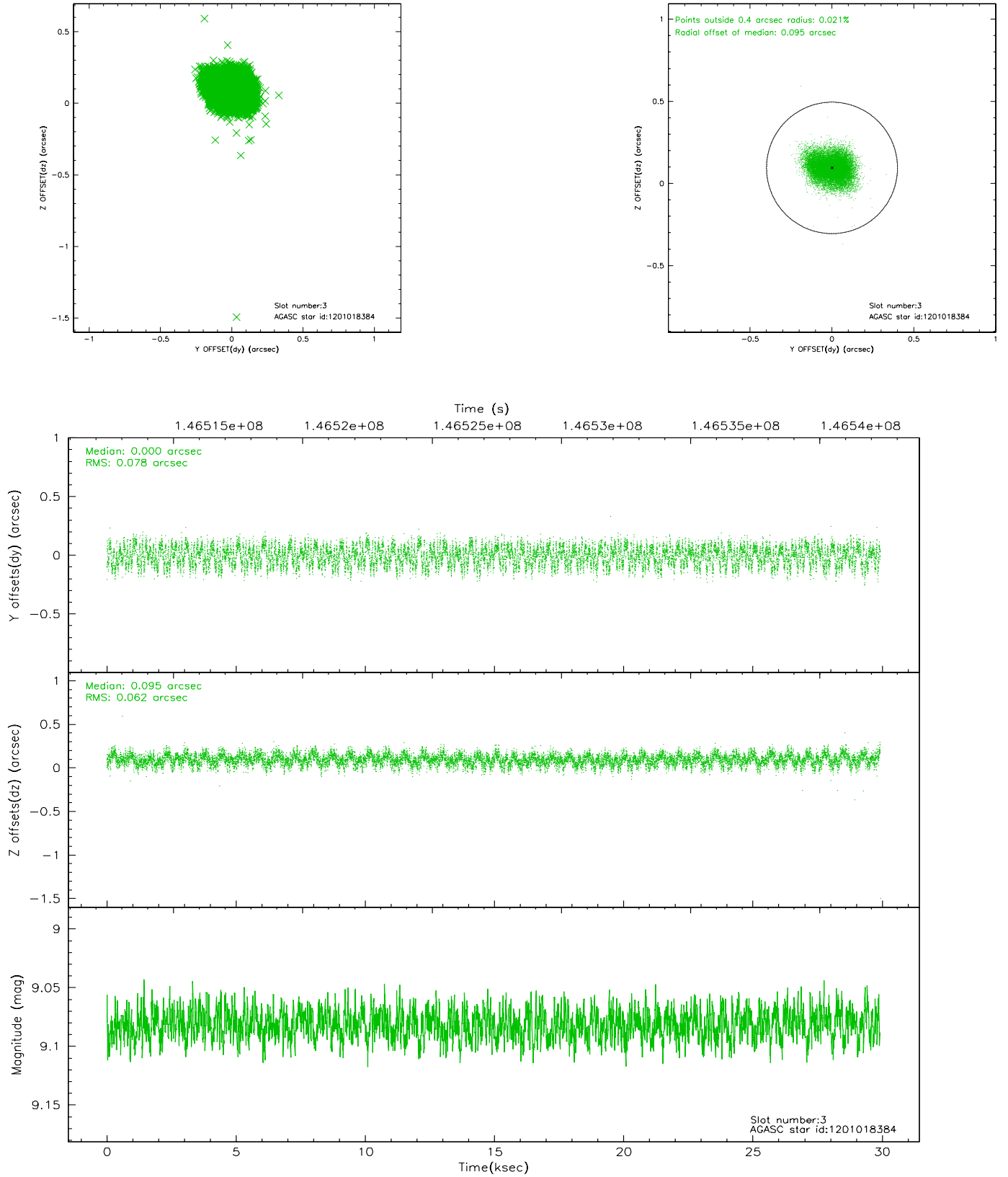


Slot Statistics

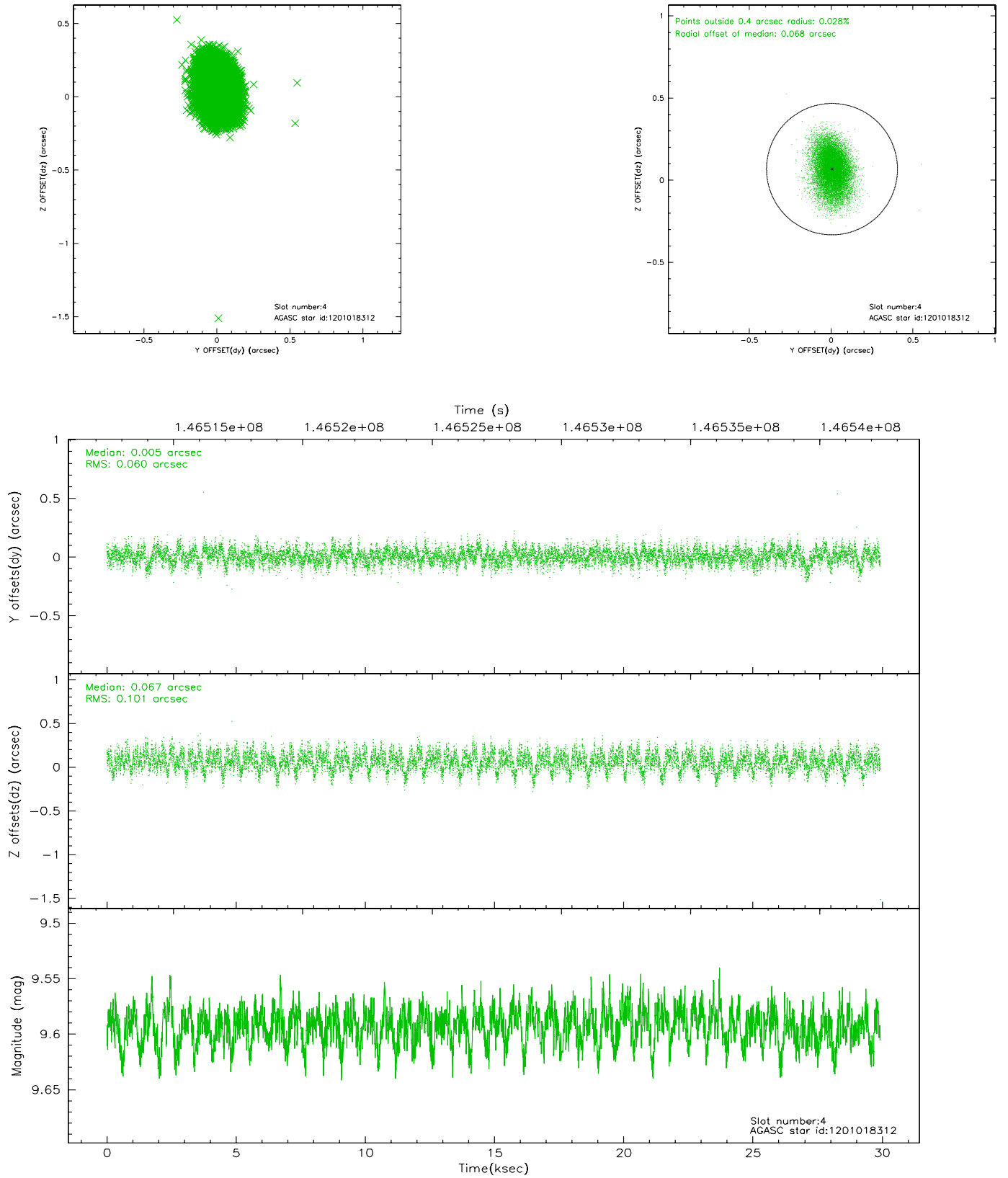
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	7301	0.019	0.027	0.007	0.013	0.000000	0.000000	-755.00	-1728.18
1	FID	ACIS-S-4	7.20	7289	-0.038	-0.008	0.006	0.010	0.000000	0.000000	2158.18	180.20
2	FID	ACIS-S-6	7.35	7291	-0.009	-0.012	0.008	0.014	0.000000	0.000000	407.04	817.67
3	GUIDE	1201018384	9.08	14567	0.000	0.095	0.108	0.163	85.801362	-68.593260	1193.43	-2415.56
4	GUIDE	1201018312	9.59	14390	0.005	0.067	0.122	0.207	86.298231	-69.115627	-779.86	-2173.34
5	GUIDE	1200883536	9.88	14549	-0.055	-0.088	0.129	0.209	83.119228	-69.218429	583.38	1678.81
6	GUIDE	1201406992	9.26	14579	0.041	-0.045	0.103	0.162	83.682859	-69.471866	-538.26	1385.82
7	GUIDE	1200887248	9.67	14512	0.014	-0.019	0.126	0.204	82.362845	-68.868028	2124.27	2086.80

2.4 Star Slots

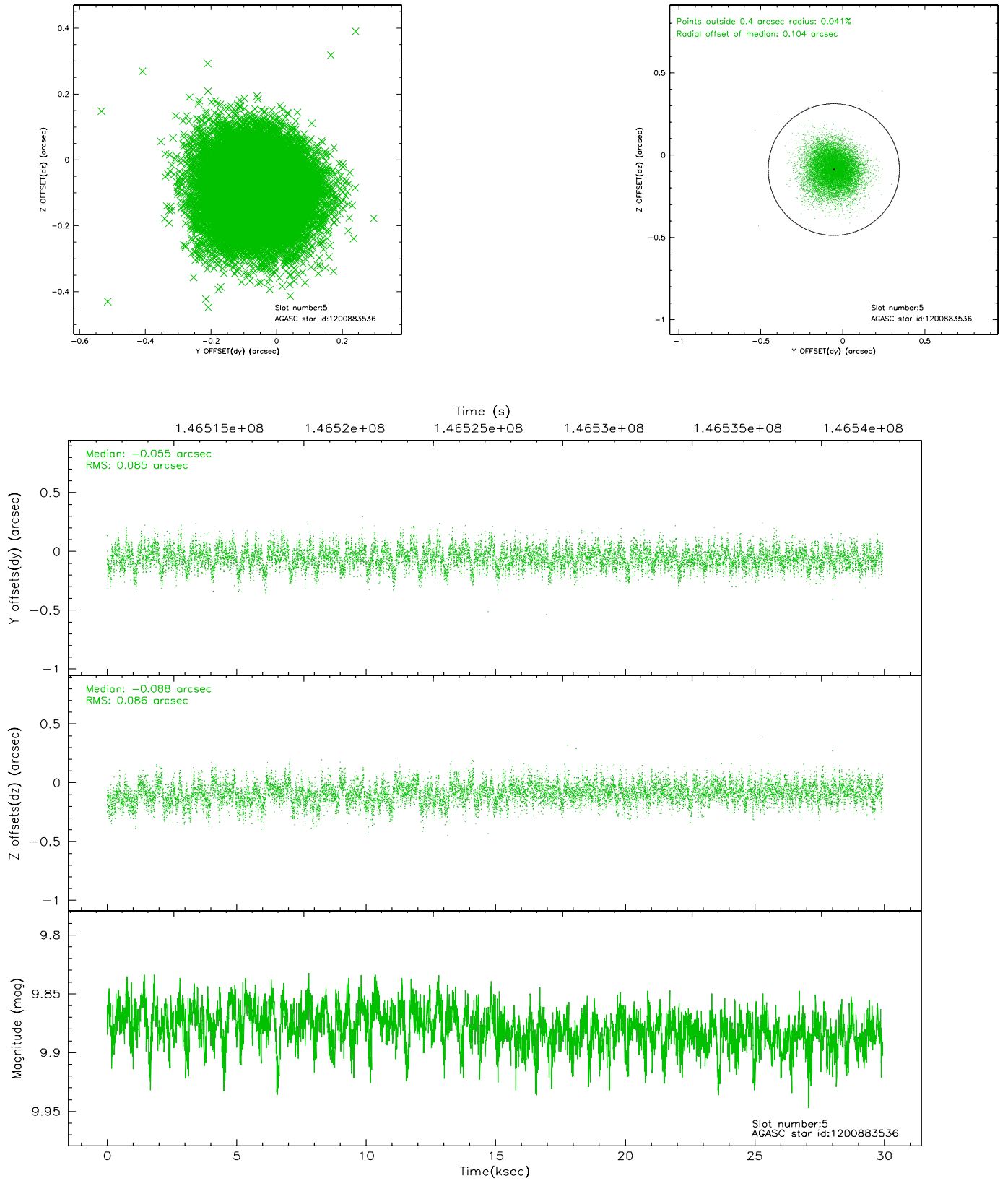
2.4.1 Slot 3



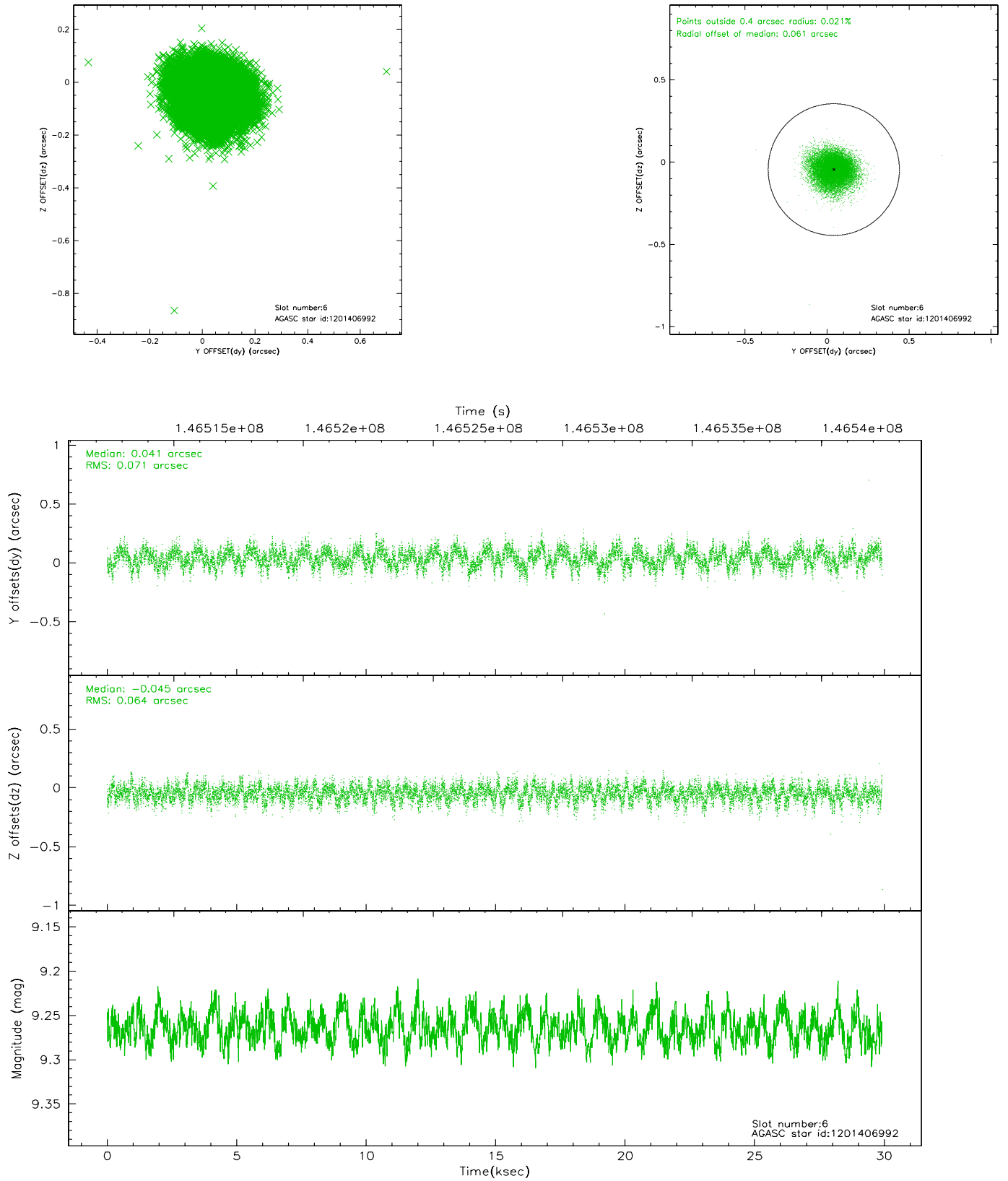
2.4.2 Slot 4



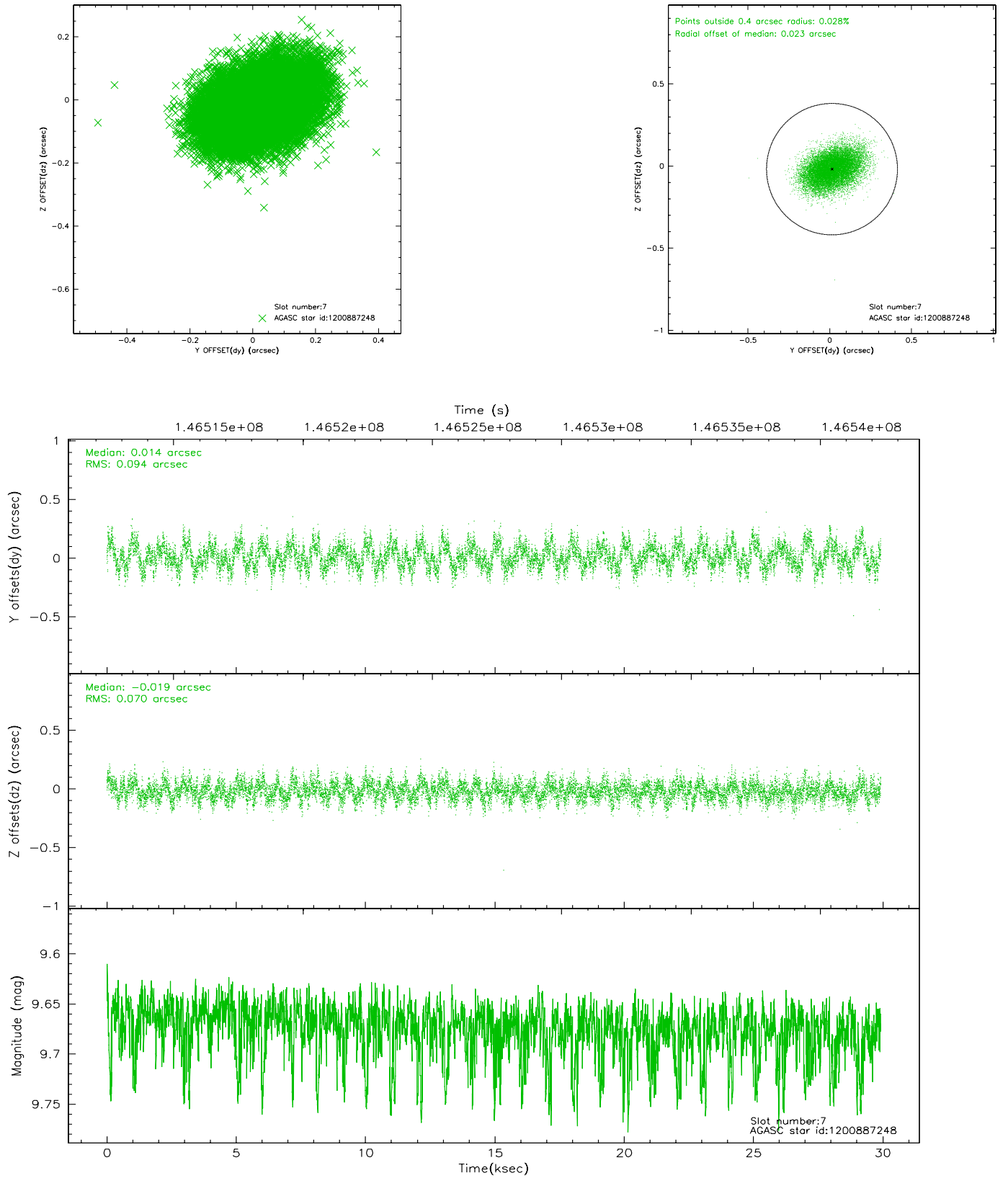
2.4.3 Slot 5



2.4.4 Slot 6

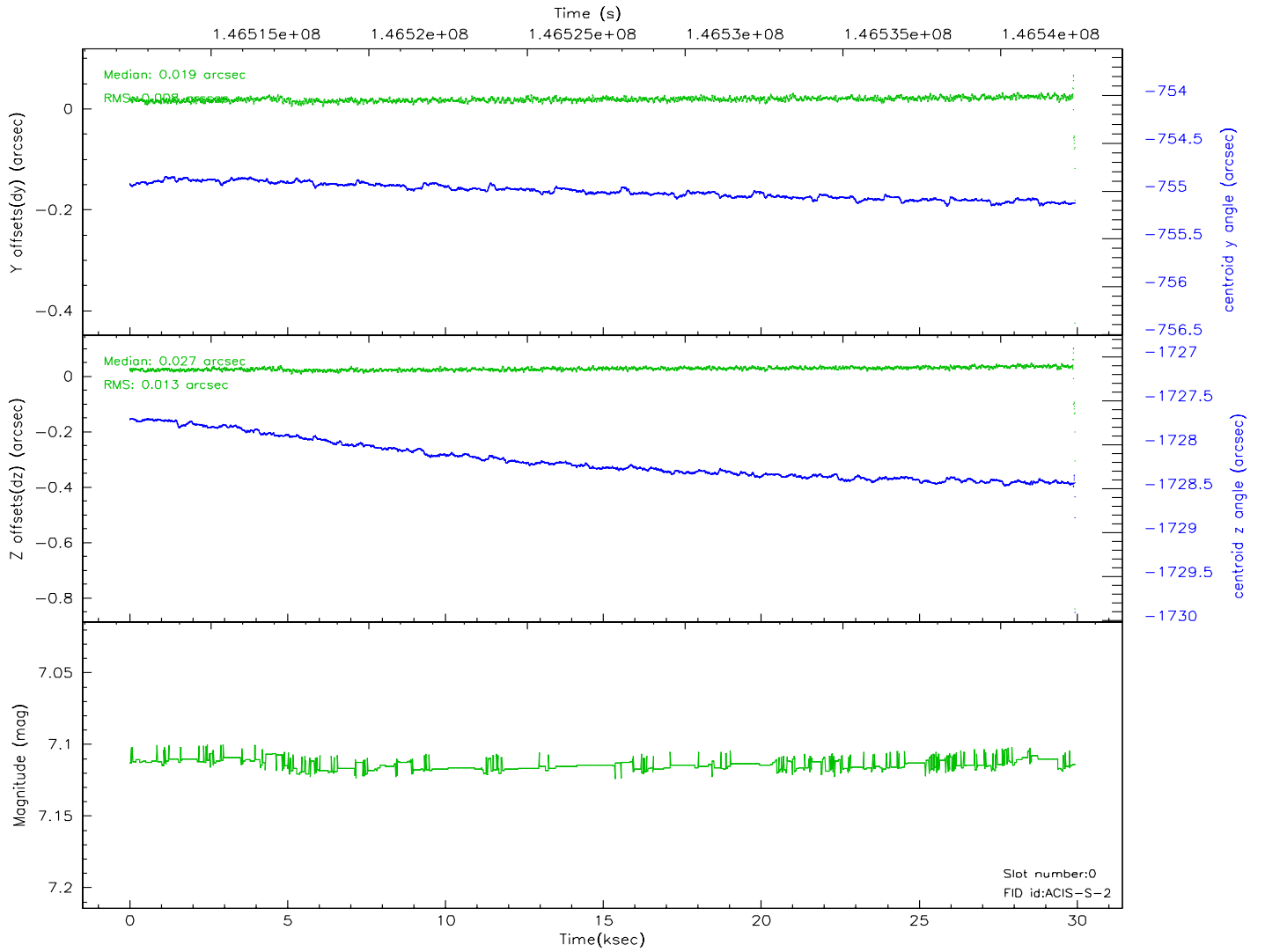
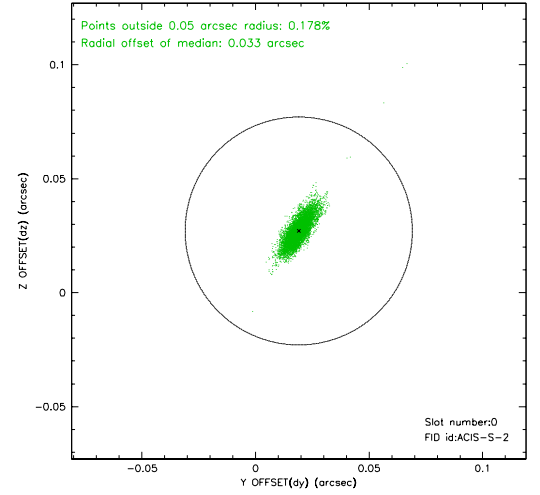
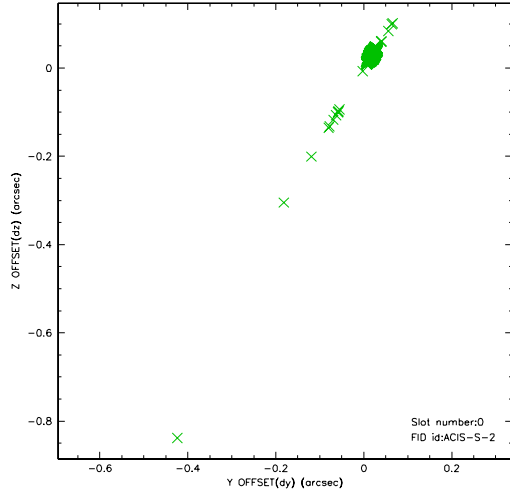


2.4.5 Slot 7

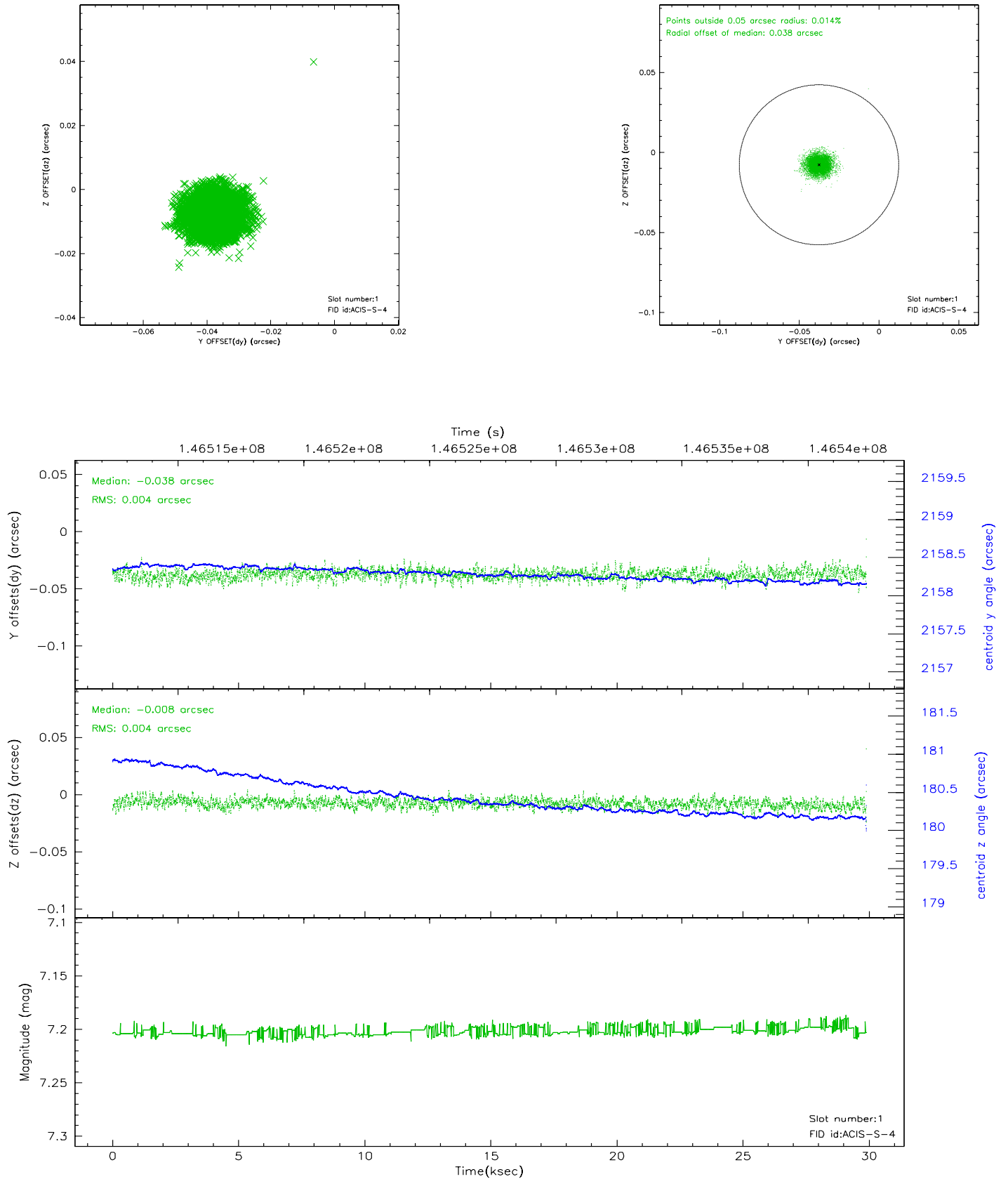


2.5 FID Slots

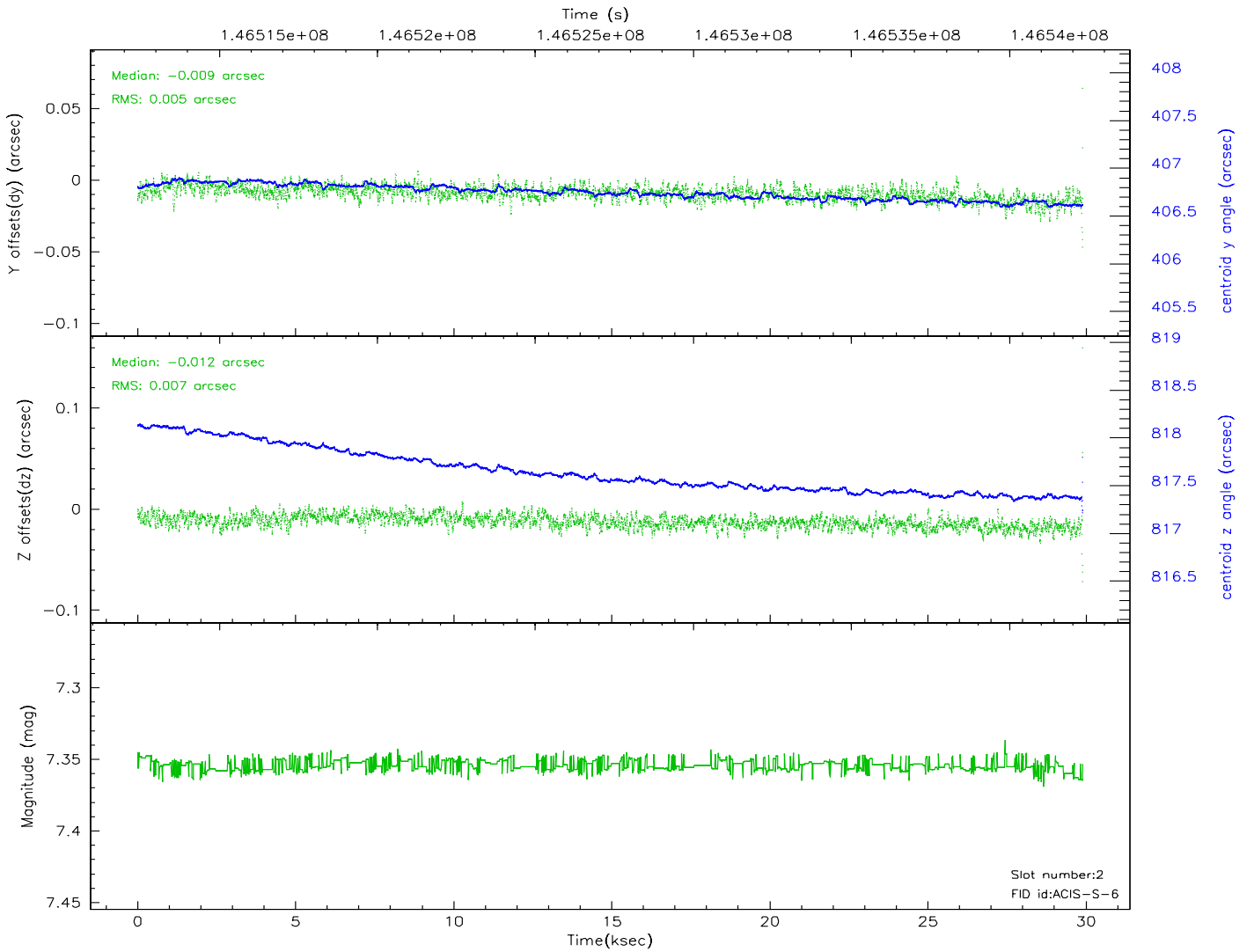
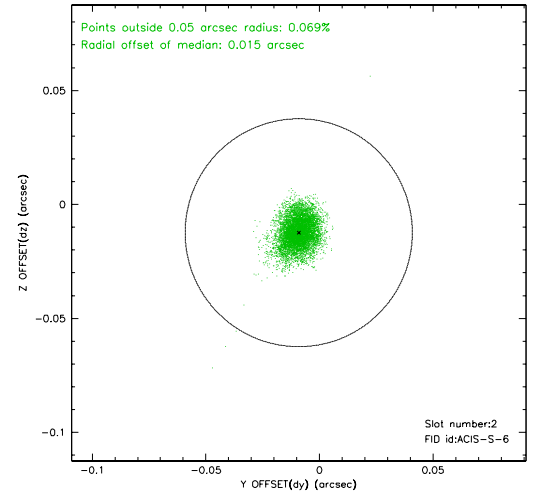
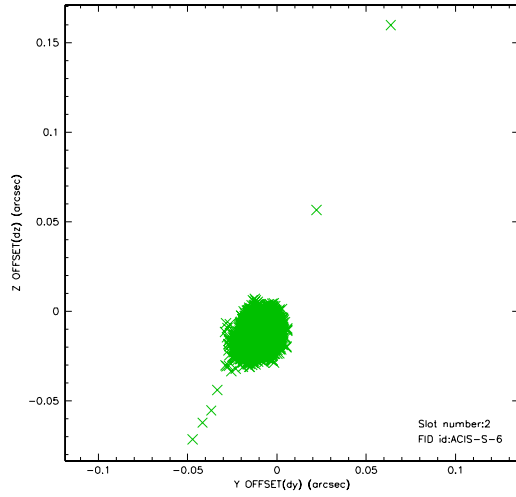
2.5.1 Slot 0



2.5.2 Slot 1



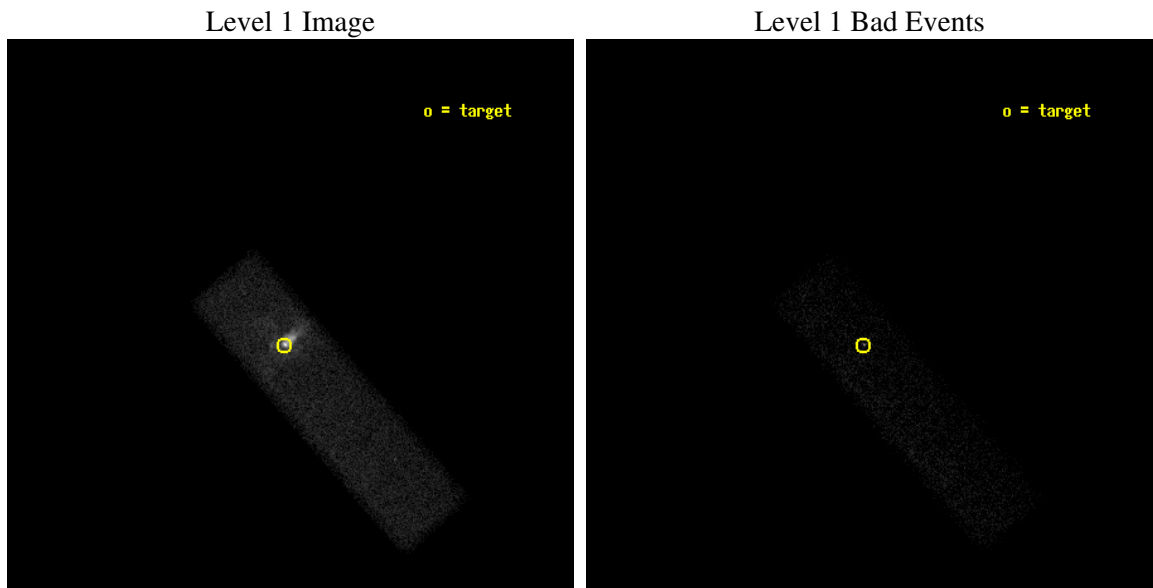
2.5.3 Slot 2



3 OBI

3.1 OBI

3.1.1 Images



3.1.2 Bias

Chip 7



3.1.3 Parameters

obi_num	3
ascdsver	7.6.10
caldsver	3.3.0
date	2007-01-11T21:56:02
revision	3

sched_exp_time	20100.000000
ontime	20721.55928871
ontime7	20721.55928871
l1events	74019

3.1.4 Events

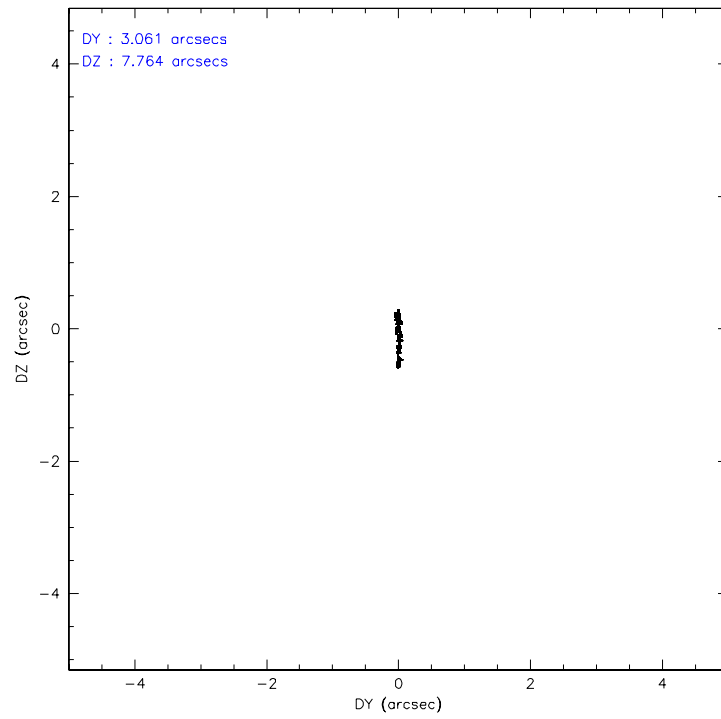
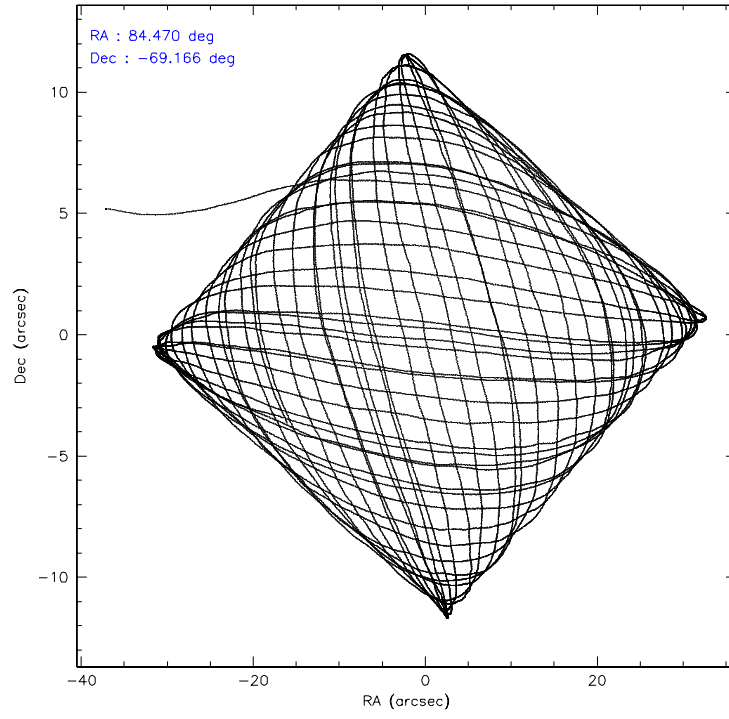
	ccd 7
level 1 events	74019
rejected events	25242
rejected %	34%

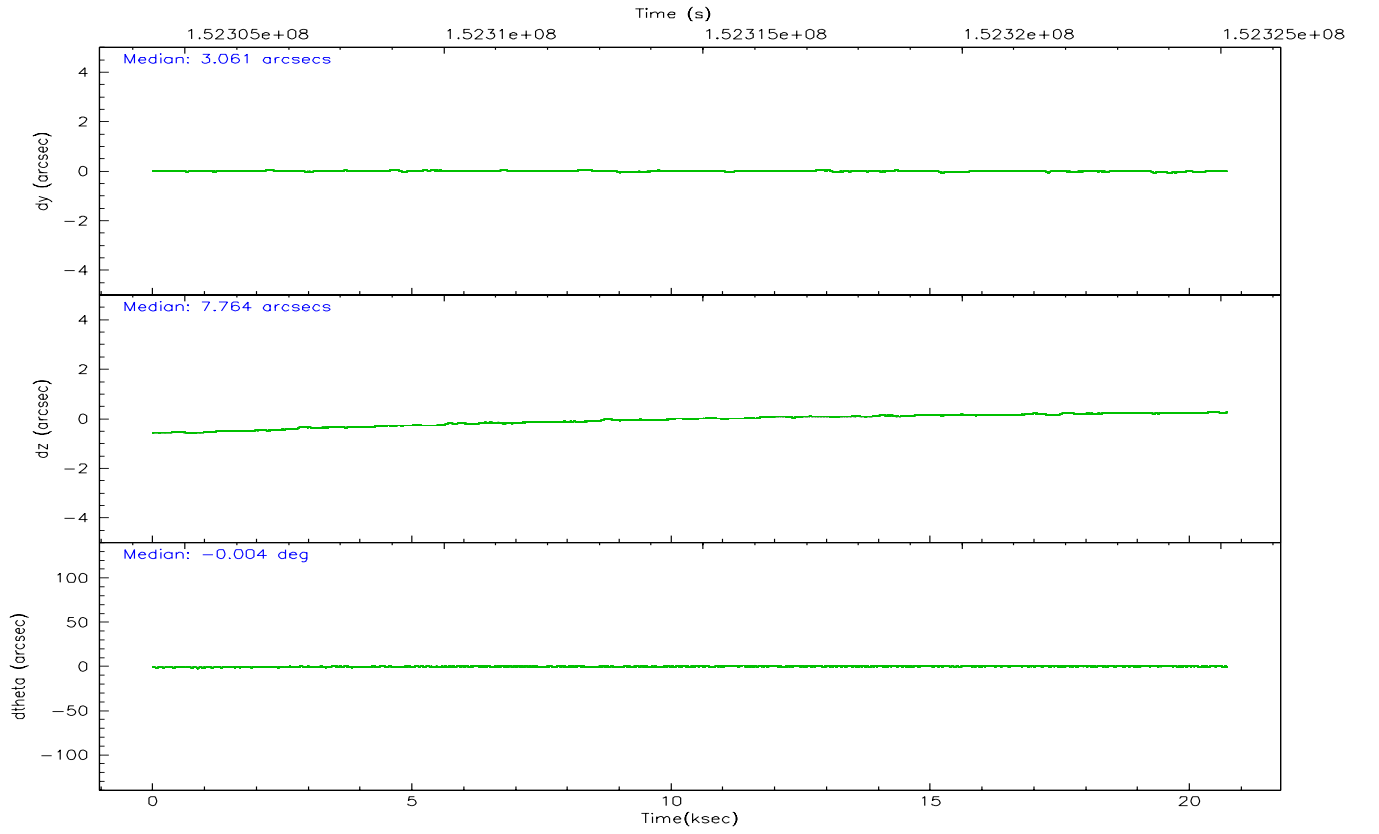
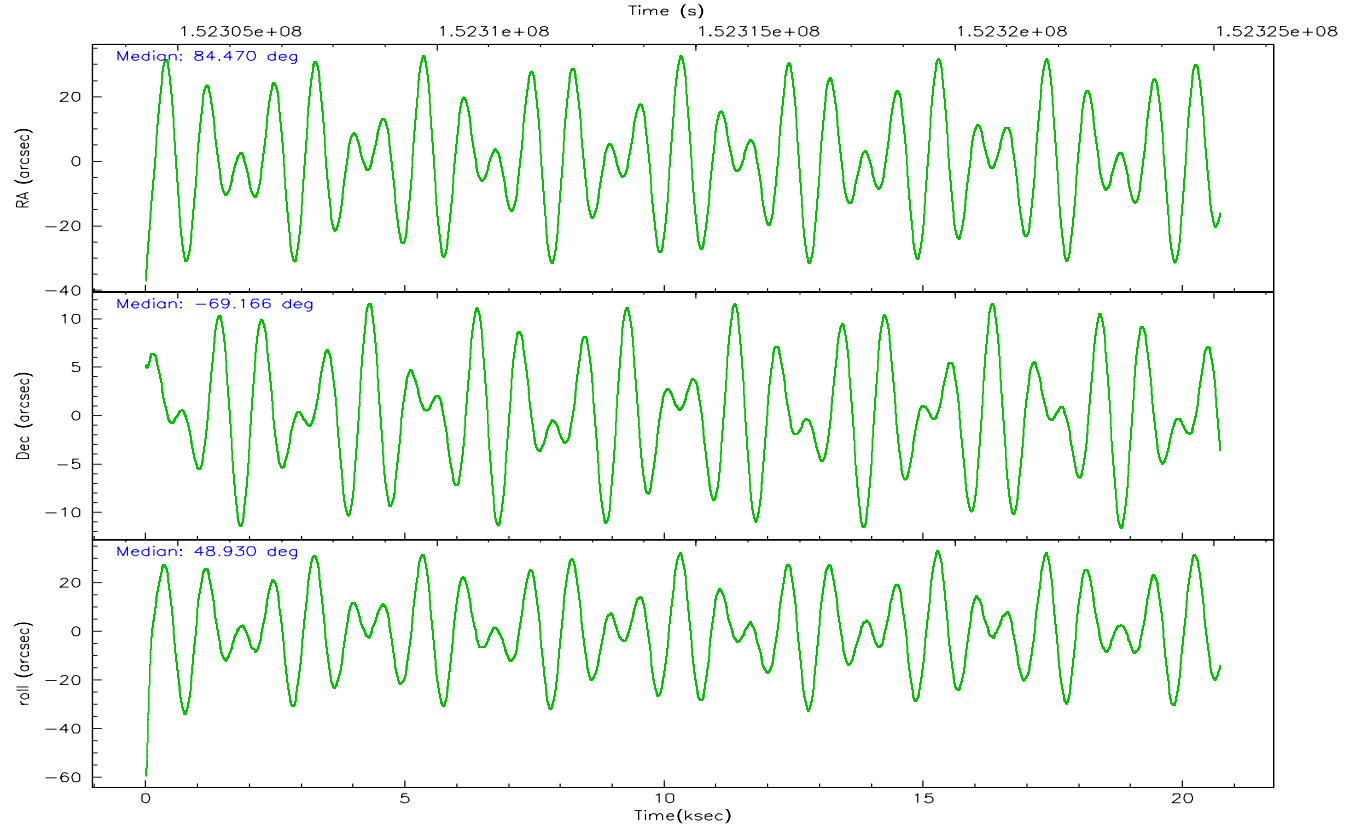
	ccd 7
grade 0 events	10076
	13%
grade 1 events	79
	0%
grade 2 events	11541
	15%
grade 3 events	5634
	7%
grade 4 events	5493
	7%
grade 5 events	4522
	6%
grade 6 events	16470
	22%
grade 7 events	20204
	27%

3.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	84.455836	84.46955866541914	Subarray requested	1/4	1/4
Pointing Dec	-69.192953	-69.16612433753988	Subarray start row	0	385
Pointing Roll	48.762896	48.93232991515467	Subarray row count	1024	256
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	0.8
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	152305015.184000	152303833.58963			
Observation start date	2002-10-29T18:55:51	2002-10-29T18:37:13			
Observation end time	152325115.184000	152325946.94055			
Observation end date	2002-10-30T00:30:51	2002-10-30T00:45:46			
Read mode	TIMED	TIMED			

3.3 Aspect



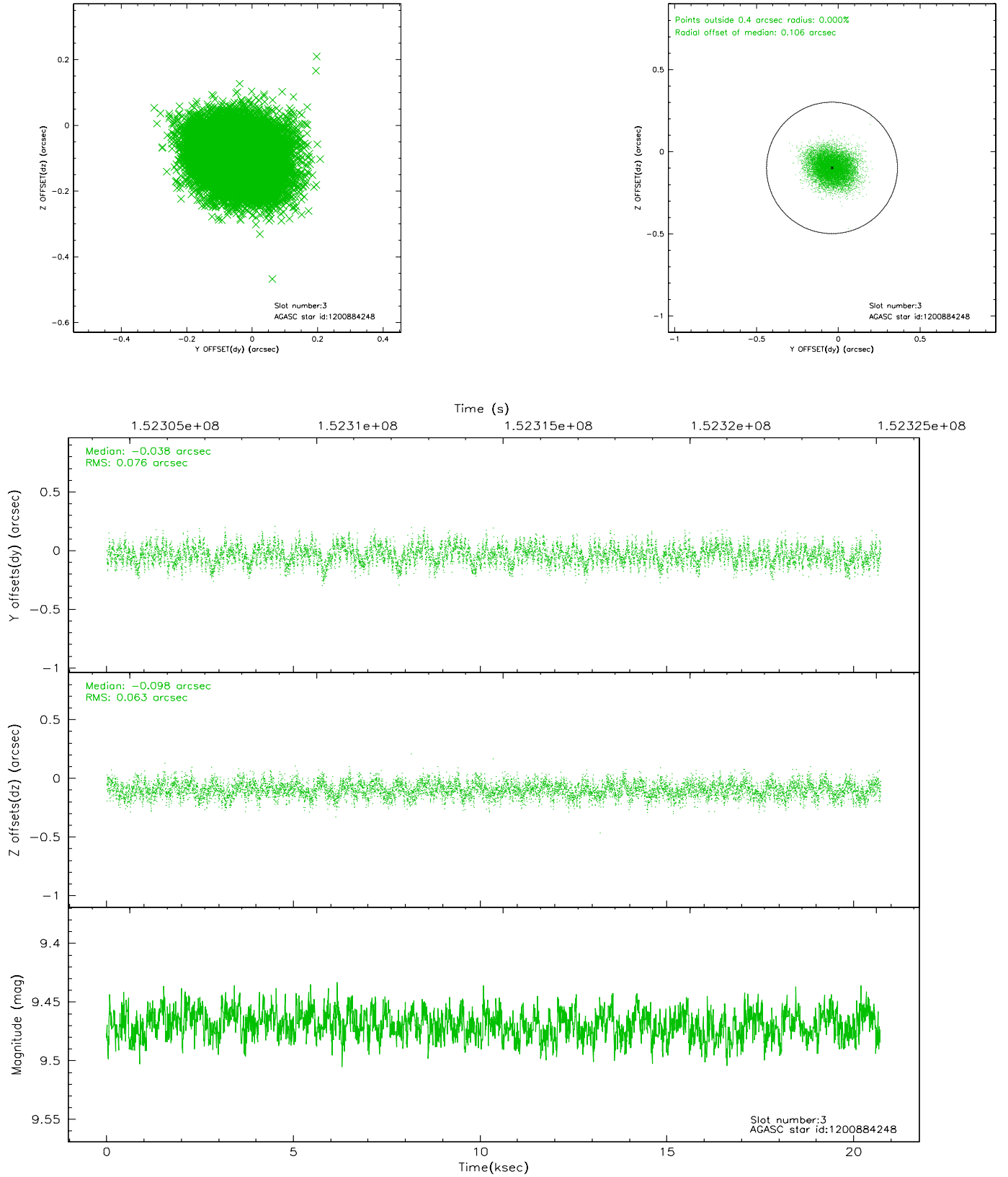


Slot Statistics

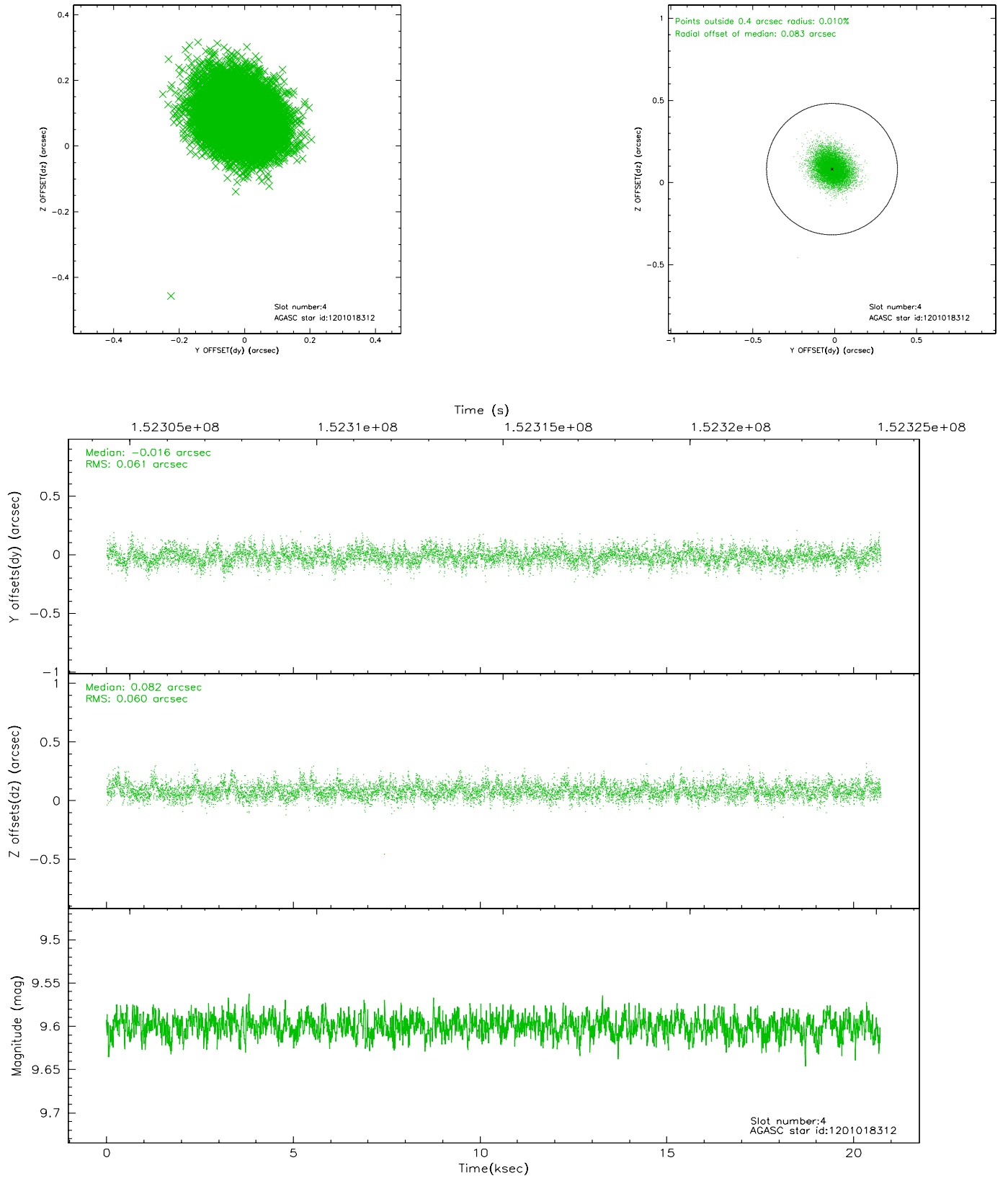
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	7301	0.019	0.027	0.007	0.013	0.000000	0.000000	-755.00	-1728.18
1	FID	ACIS-S-4	7.20	7289	-0.038	-0.008	0.006	0.010	0.000000	0.000000	2158.18	180.20
2	FID	ACIS-S-6	7.35	7291	-0.009	-0.012	0.008	0.014	0.000000	0.000000	407.04	817.67
3	GUIDE	1201018384	9.08	14567	0.000	0.095	0.108	0.163	85.801362	-68.593260	1193.43	-2415.56
4	GUIDE	1201018312	9.59	14390	0.005	0.067	0.122	0.207	86.298231	-69.115627	-779.86	-2173.34
5	GUIDE	1200883536	9.88	14549	-0.055	-0.088	0.129	0.209	83.119228	-69.218429	583.38	1678.81
6	GUIDE	1201406992	9.26	14579	0.041	-0.045	0.103	0.162	83.682859	-69.471866	-538.26	1385.82
7	GUIDE	1200887248	9.67	14512	0.014	-0.019	0.126	0.204	82.362845	-68.868028	2124.27	2086.80

3.4 Star Slots

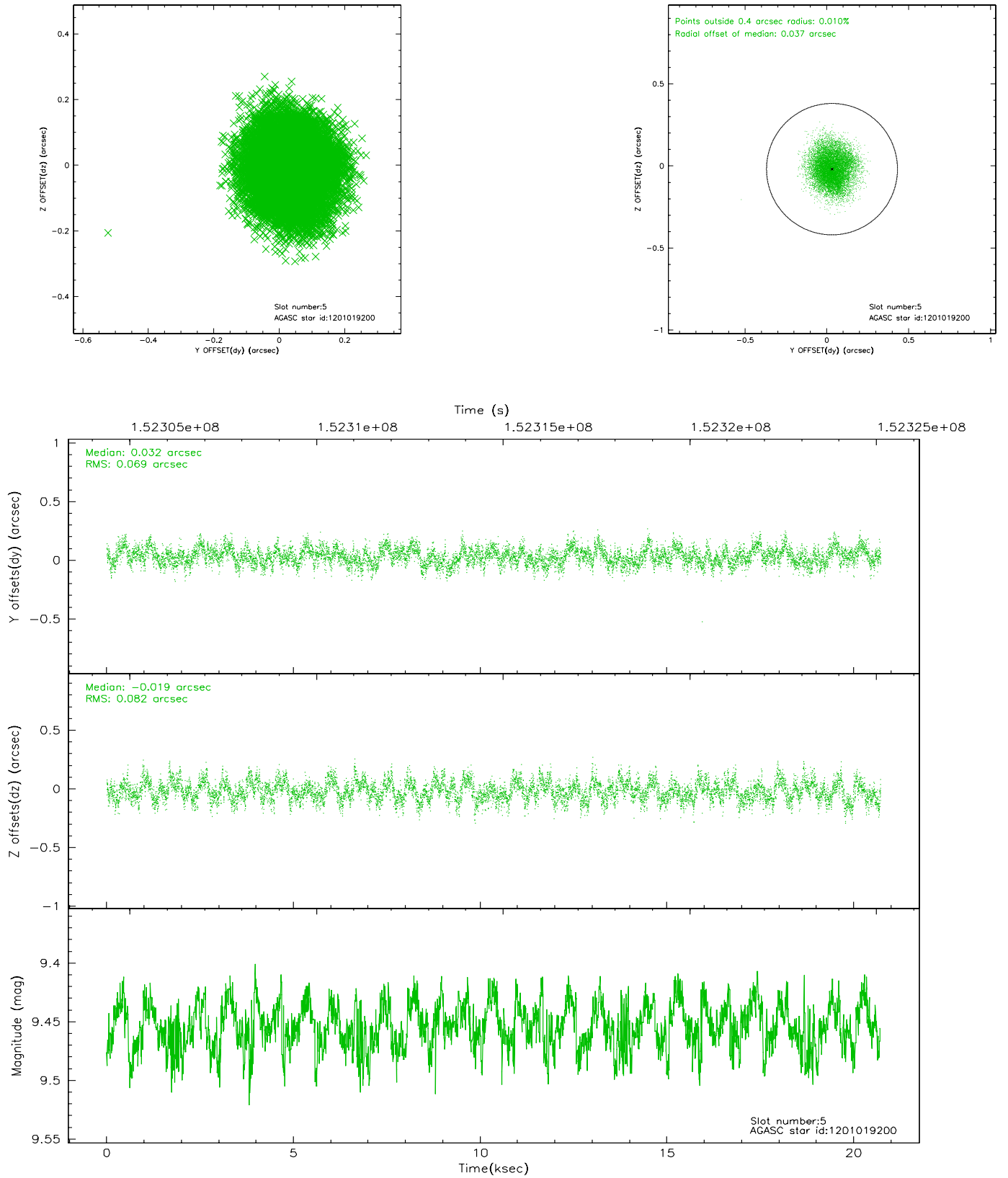
3.4.1 Slot 3



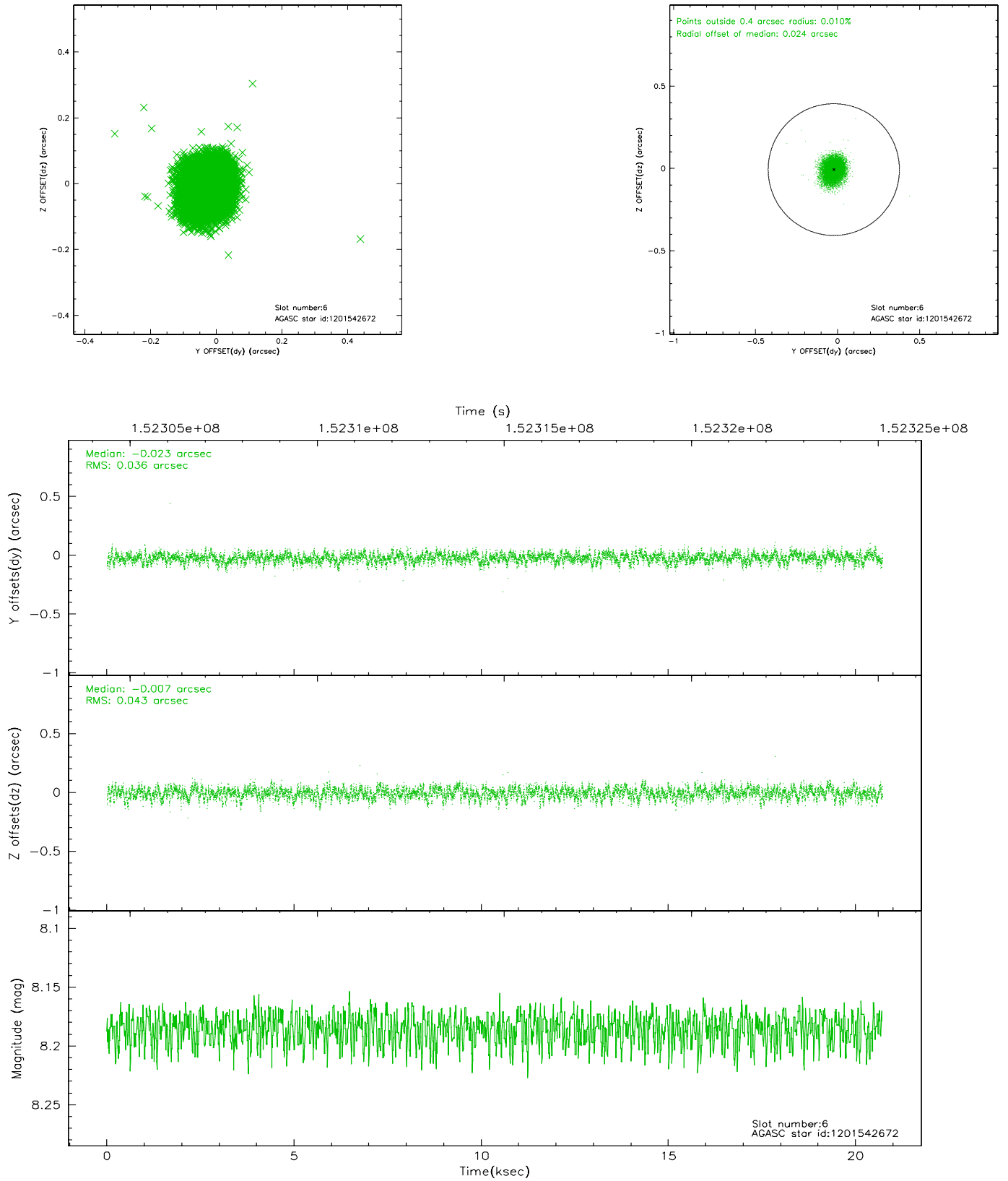
3.4.2 Slot 4



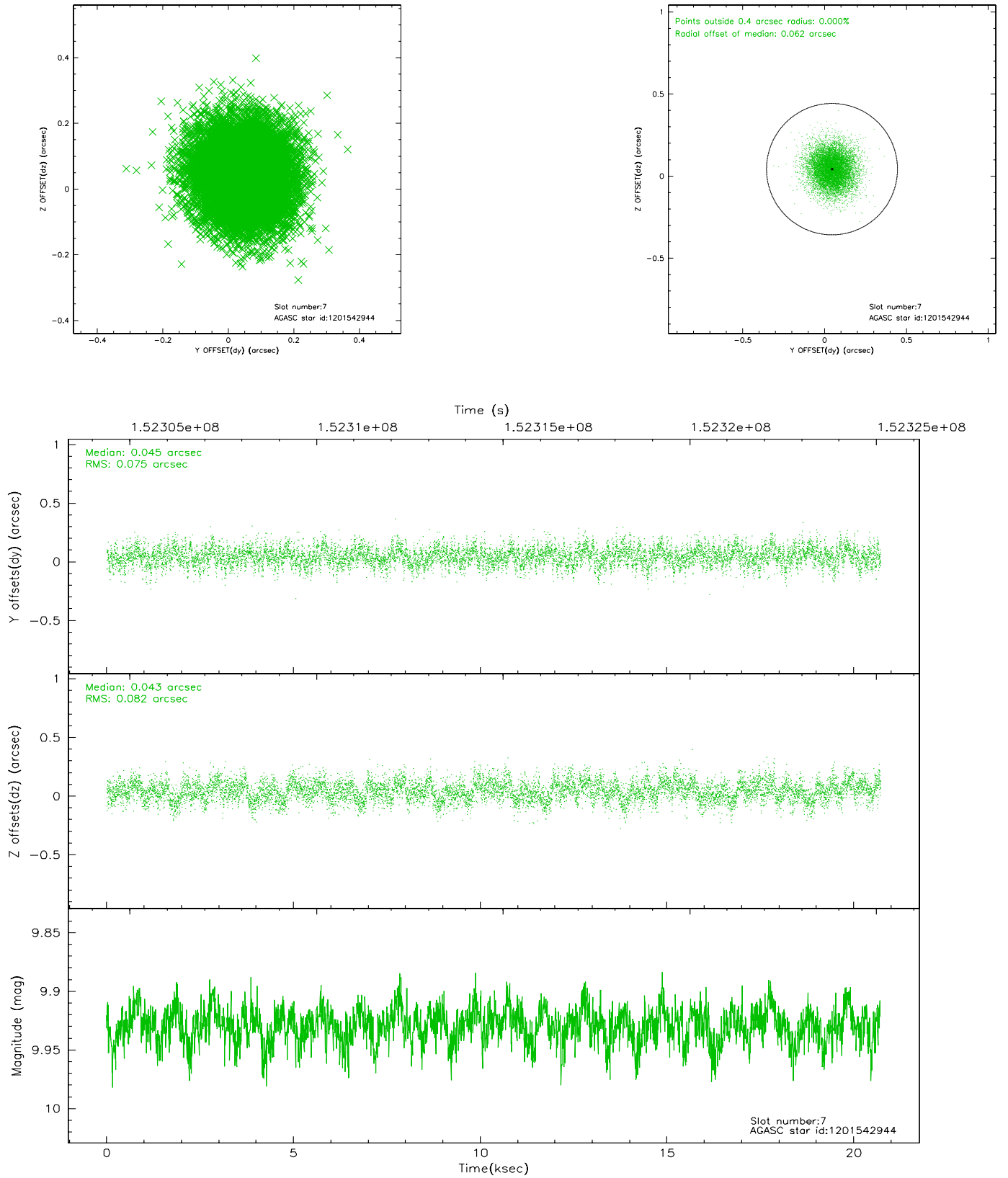
3.4.3 Slot 5



3.4.4 Slot 6

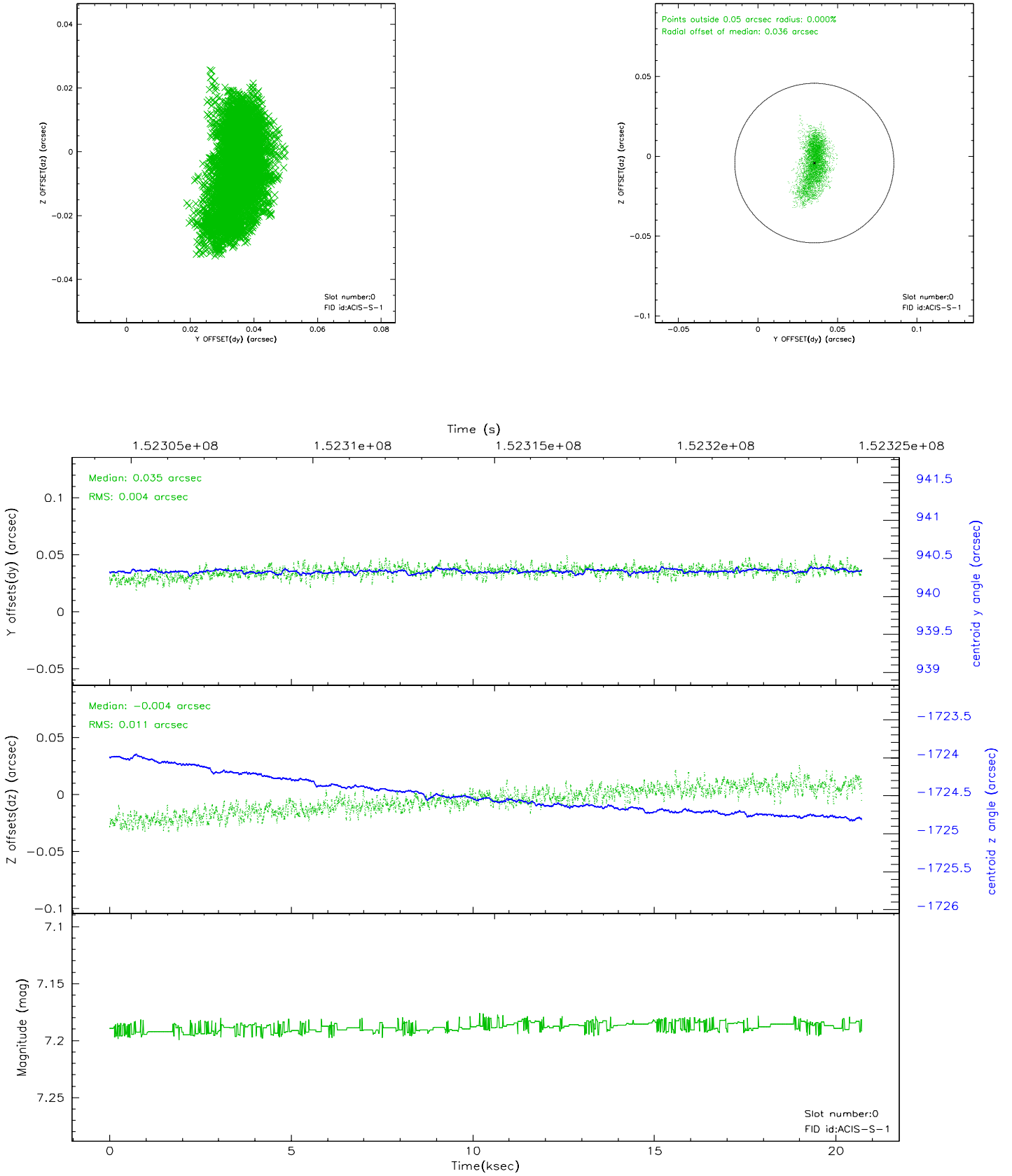


3.4.5 Slot 7

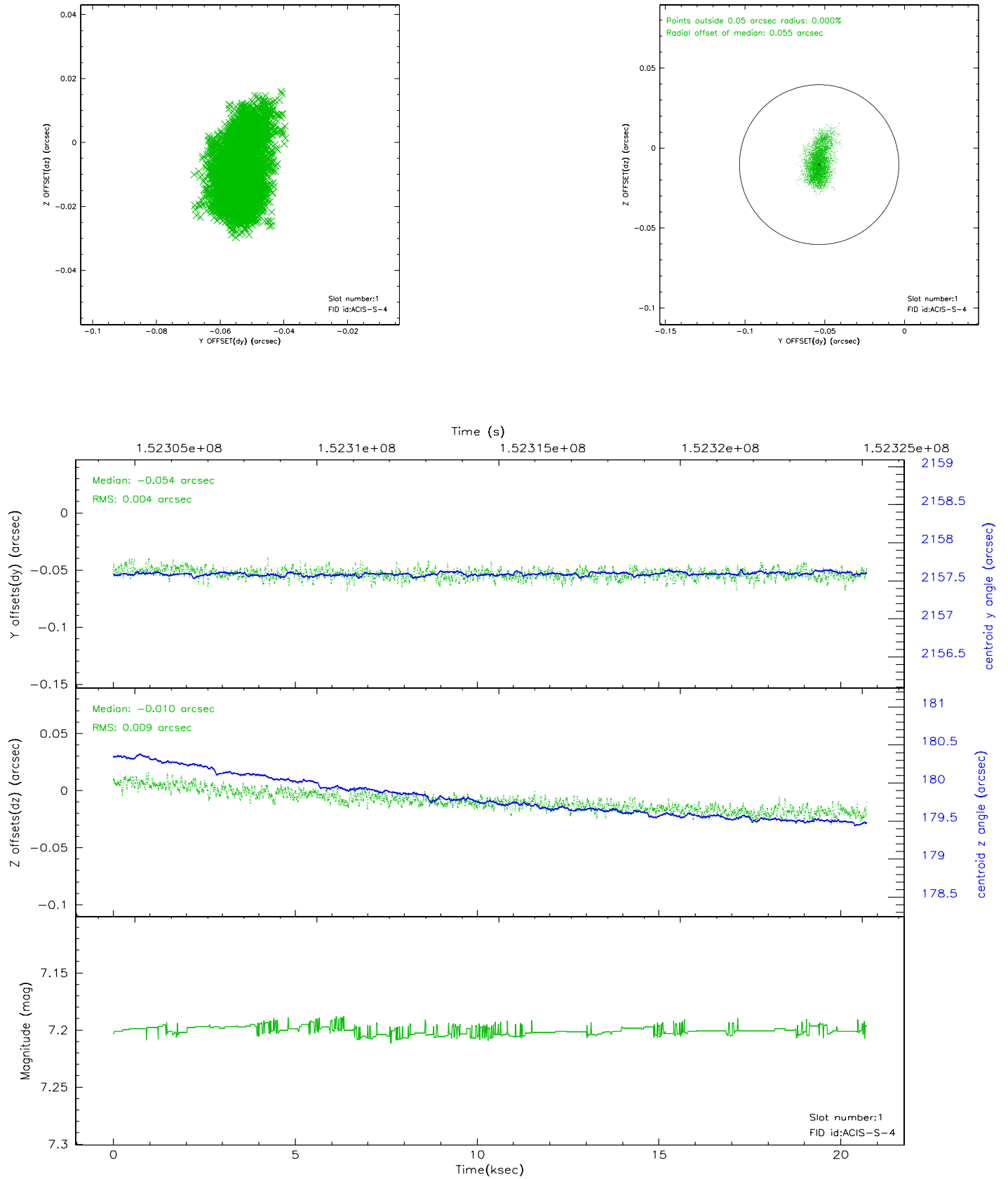


3.5 FID Slots

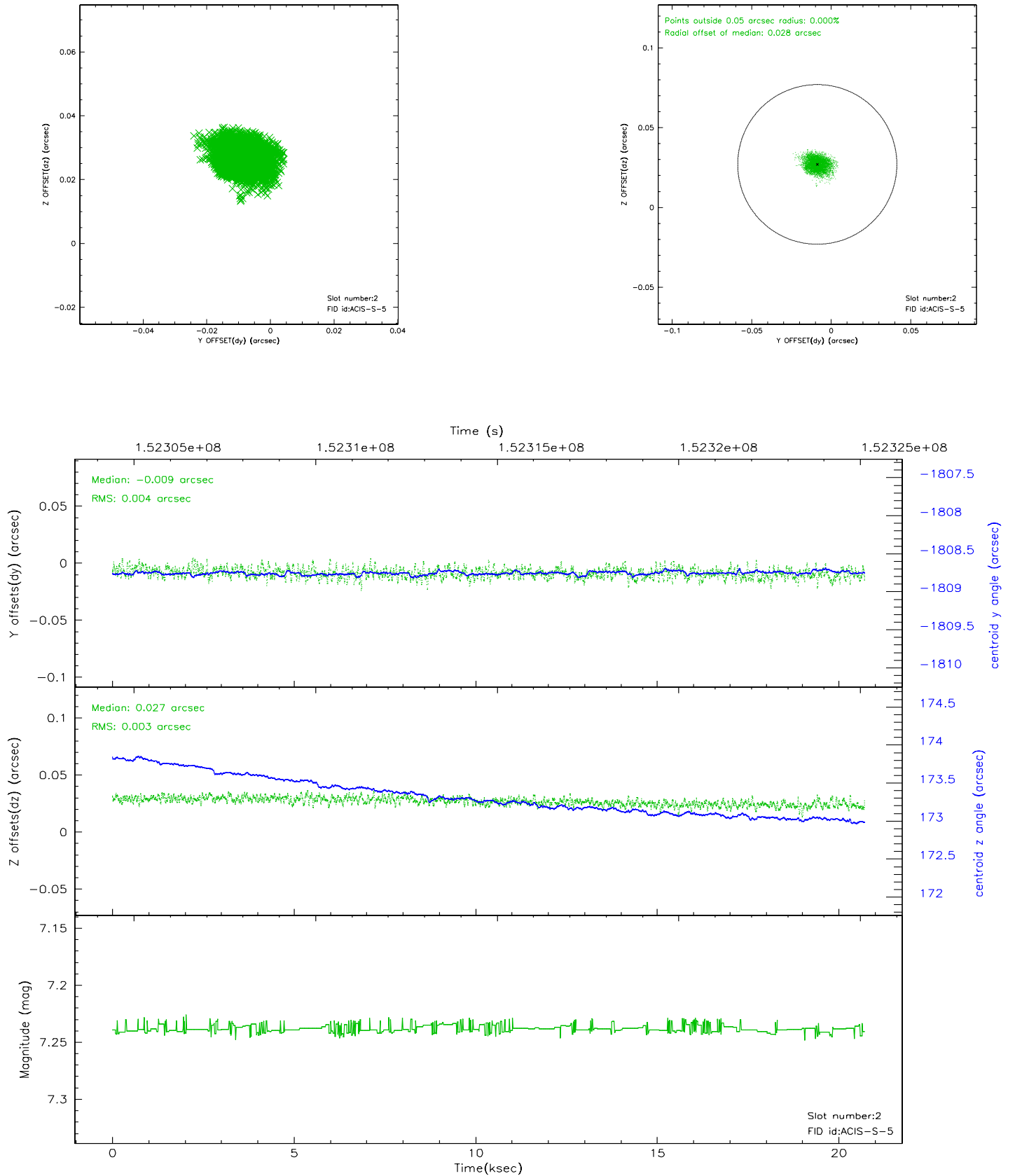
3.5.1 Slot 0



3.5.2 Slot 1



3.5.3 Slot 2



4 Point Sources

4.45 arcmin



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.01.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.622

A.2 Comments

OBI 1 was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 236:02:11:29 UT.