

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4637 - L2 Version 4
Chandra X-Ray Center

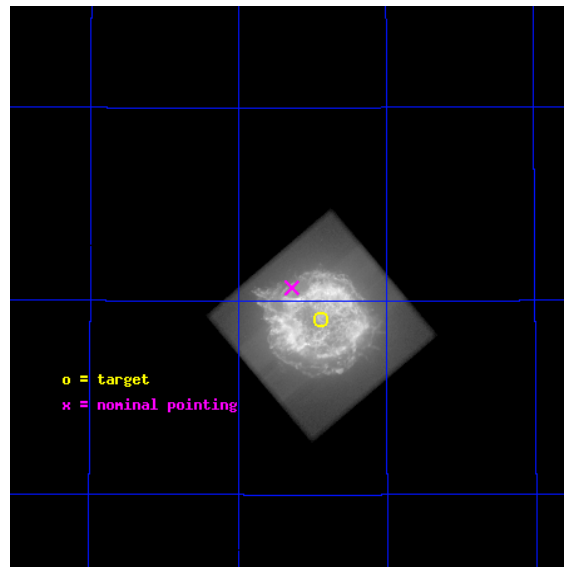
L2 Processing Date : Dec 12 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	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

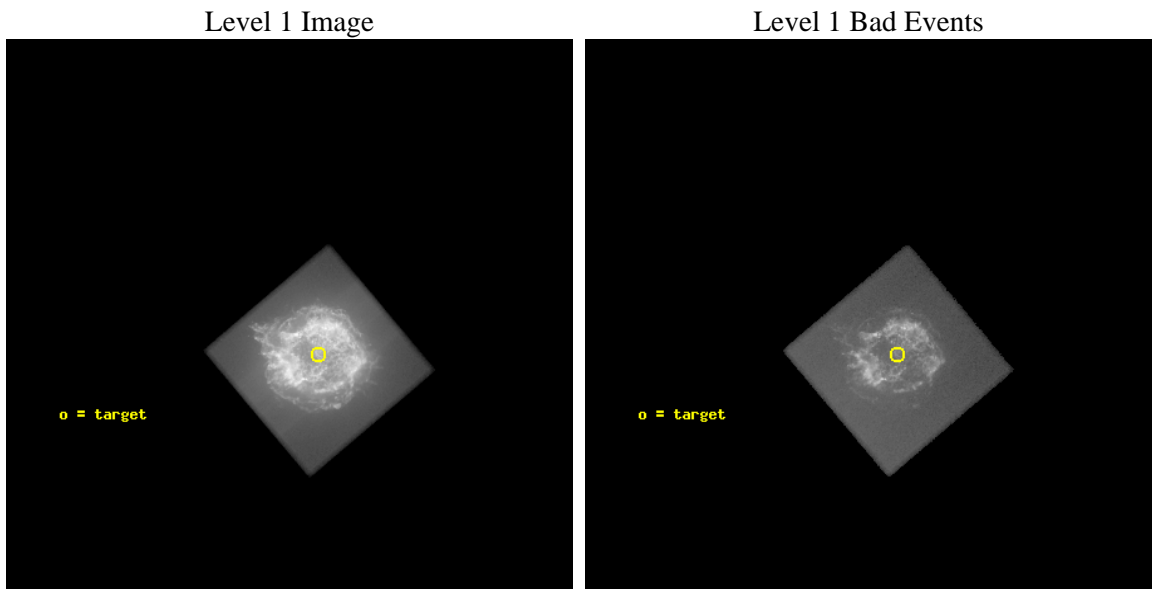
seq_num	500459	Sequence number
obs_id	4637	Observation id
title	The Cassiopeia A Explosion: Getting at the Core Issues	Proposal ti
observer	Dr Una Hwang	Principal investigator
object	Cassiopeia A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.86125	Observer's specified target RA [deg]
dec_targ	58.8175	Observer's specified target Dec [deg]
ra_nom	350.90993357523	Nominal RA [deg]
dec_nom	58.844877720048	Nominal Dec [deg]
roll_nom	49.767793397975	Nominal Roll [deg]
revision	4	Processing version of data
ontime	165732.0	Sum of GTIs [s]
livetime	163495.38315839	Livetime [s]
ontime7	165732.0	Sum of GTIs [s]
l2events	49084031	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	165579.539000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	165732.0	Sum of GTIs [s]
caldsver	4.5.4	 	ontime7	165732.0	Sum of GTIs [s]
date	2012-12-09T00:17:03	Date and time of file creation	l1events	52647935	Number of level 1 events
revision	4	Processing version of data			

2.1.3 Events

	ccd 7
level 1 events	52647935
rejected events	3076259
rejected %	5%

	ccd 7
grade 0 events	10938944
	20%
grade 1 events	195571
	0%
grade 2 events	14490603
	27%
grade 3 events	5318471
	10%
grade 4 events	5230226
	9%
grade 5 events	927445
	1%
grade 6 events	13646669
	25%
grade 7 events	1900006
	3%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	350.901823	350.9099335752343	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.818026	58.84487772004824	Alternating exposures requested	N	N
[deg] Pointing Roll	49.618278	49.76779339797502	[s] Primary exposure time	0.000000	3
[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)	199046738.184000	199045437.66214			
Observation start date	2004-04-22T18:44:34	2004-04-22T18:23:57			
[s] Observation end time (MET)	199212317.184000	199212632.08201			
Observation end date	2004-04-24T16:44:13	2004-04-24T16:50:32			
Read mode	TIMED	TIMED			

2.3 Aspect

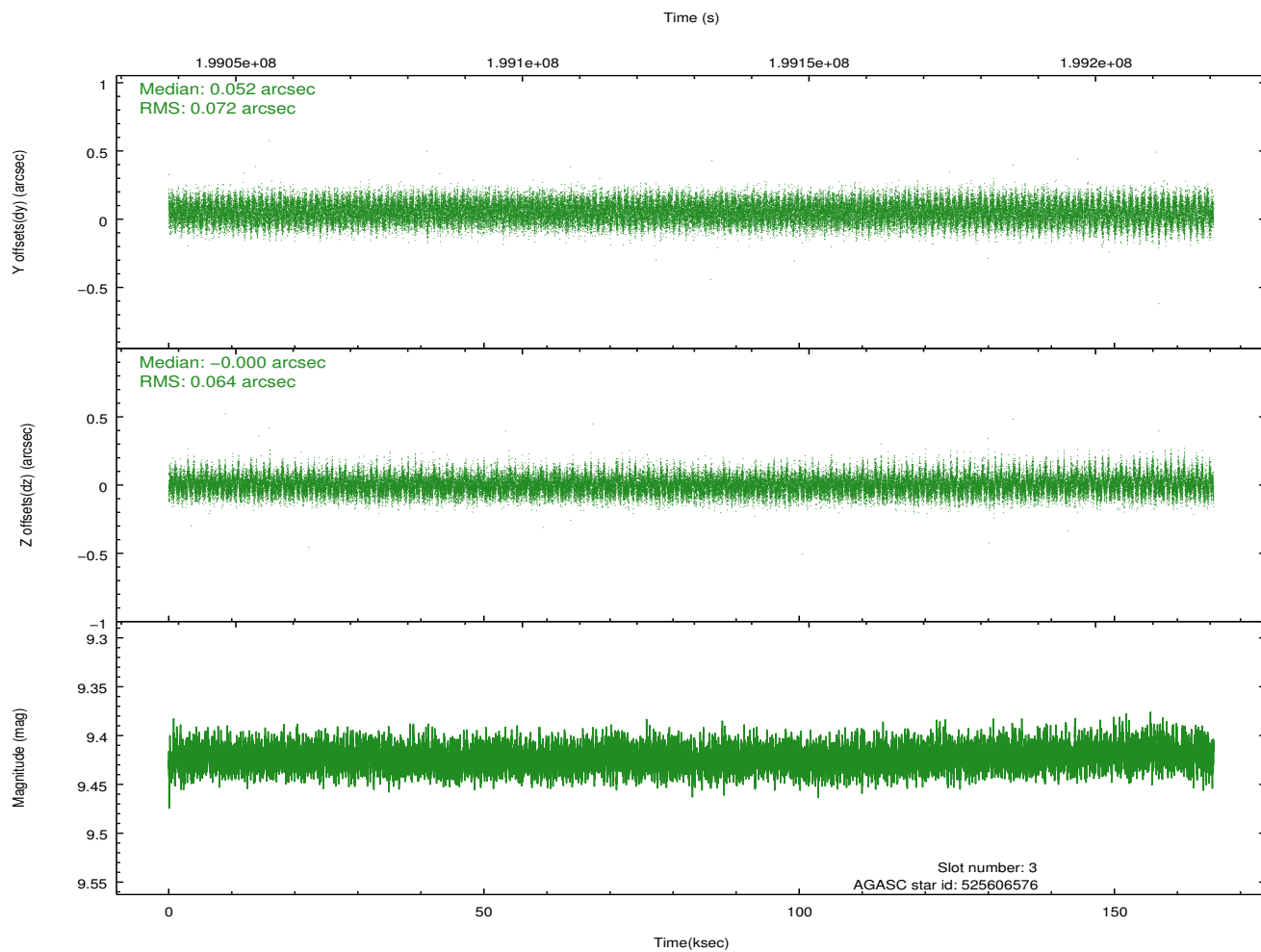
Slot Statistics

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	40421	-0.002	-0.073	0.009	0.023	0.000000	0.000000	937.20	-1728.30
1	FID	ACIS-S-4	7.20	40419	0.045	0.056	0.009	0.024	0.000000	0.000000	2154.62	176.09
2	FID	ACIS-S-5	7.23	40420	-0.070	0.029	0.008	0.018	0.000000	0.000000	-1811.86	169.57
3	GUIDE	525606576	9.42	80788	0.052	-0.000	0.102	0.166	349.543555	58.678895	-2008.71	1628.41
4	GUIDE	525731480	9.51	80642	-0.135	0.045	0.080	0.131	351.647209	58.687294	551.13	-1361.76
5	GUIDE	525732232	9.11	80808	0.073	0.041	0.074	0.127	351.669550	58.757012	768.12	-1229.26
6	GUIDE	525732488	8.41	80830	-0.032	-0.083	0.062	0.098	350.087090	58.516915	-1810.76	470.51
7	GUIDE	525736400	9.07	80812	0.041	-0.007	0.069	0.111	350.974563	59.175145	1066.49	731.19

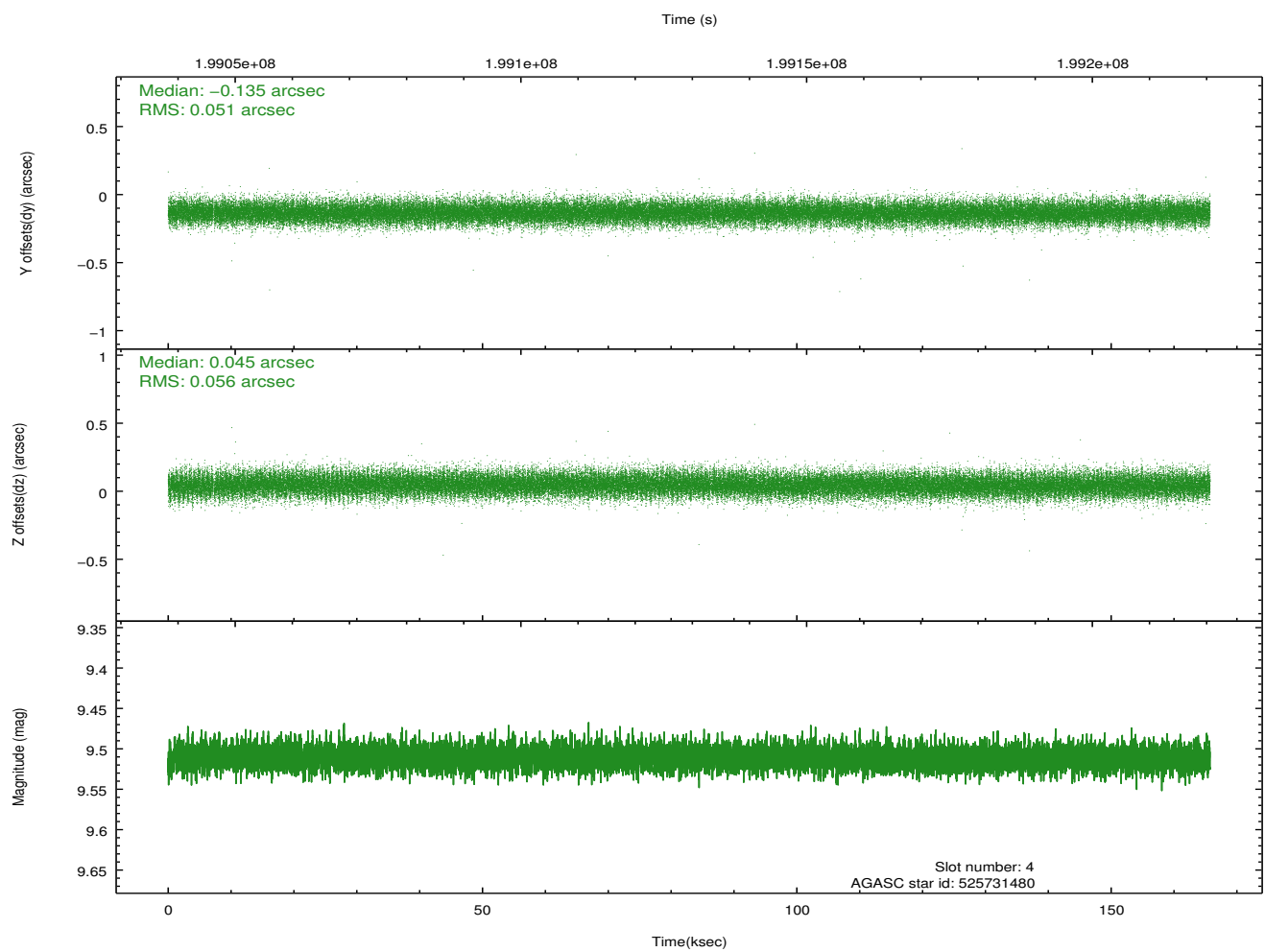
∞

2.4 Star Slots

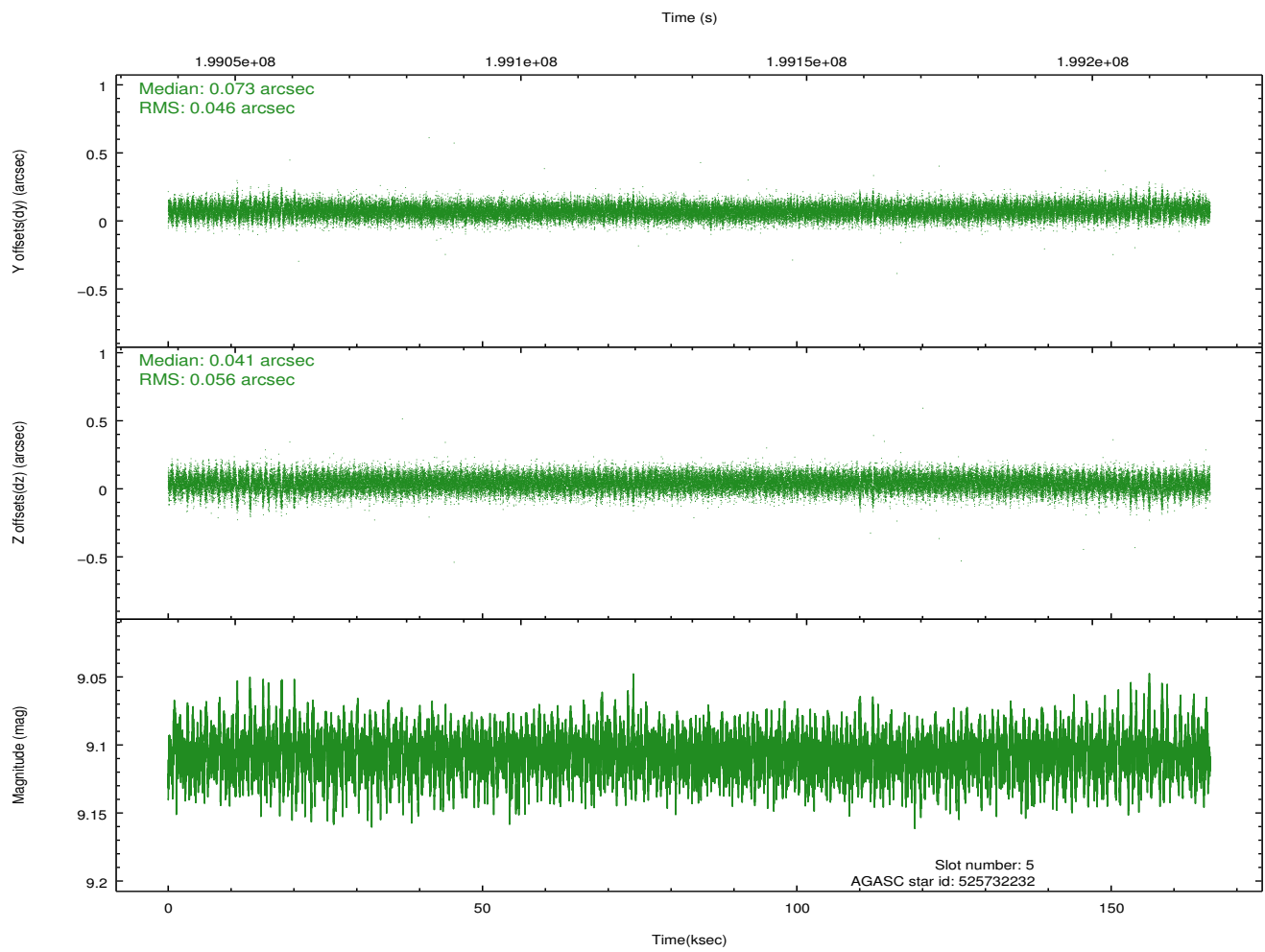
2.4.1 Slot 3



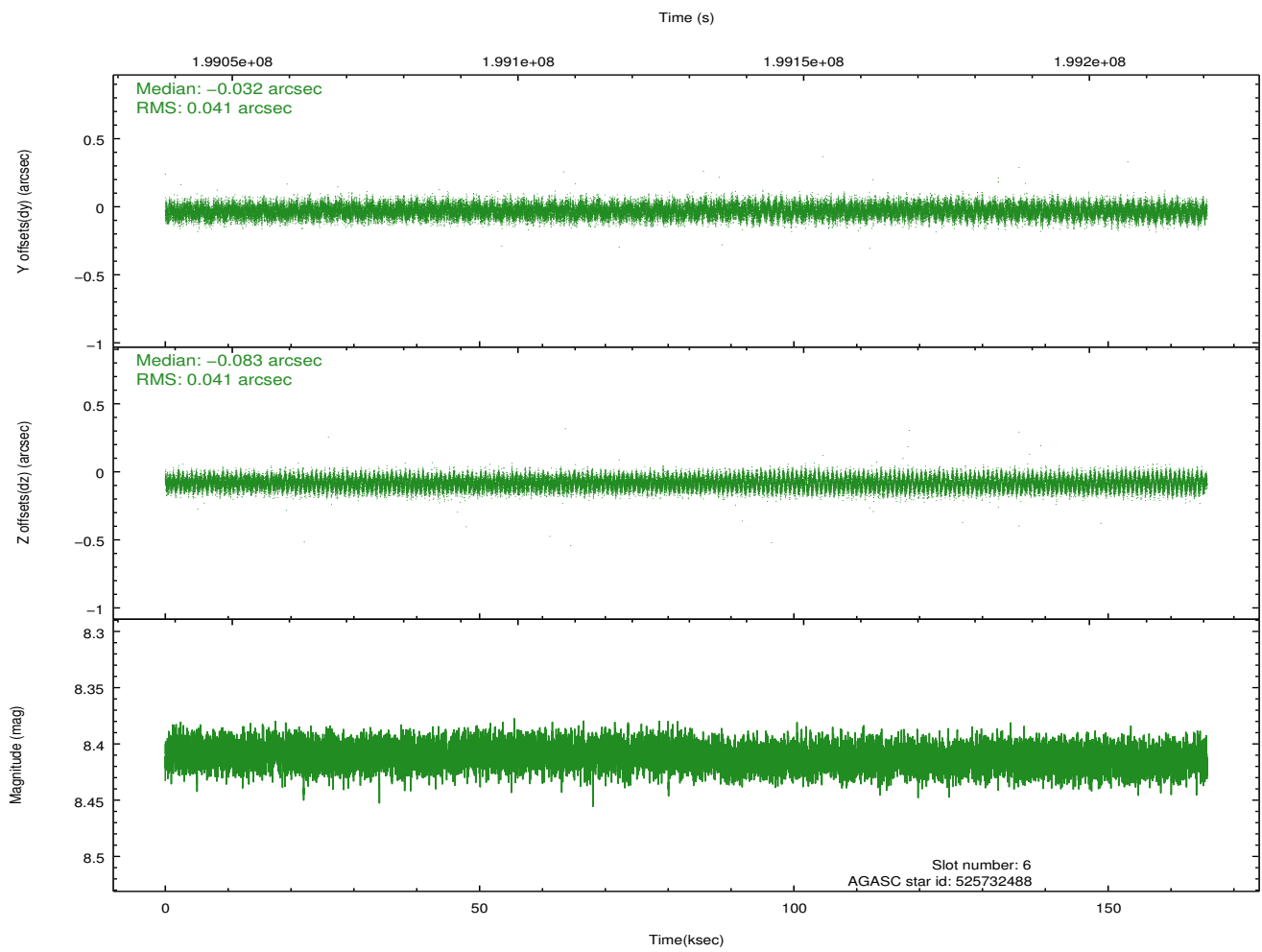
2.4.2 Slot 4



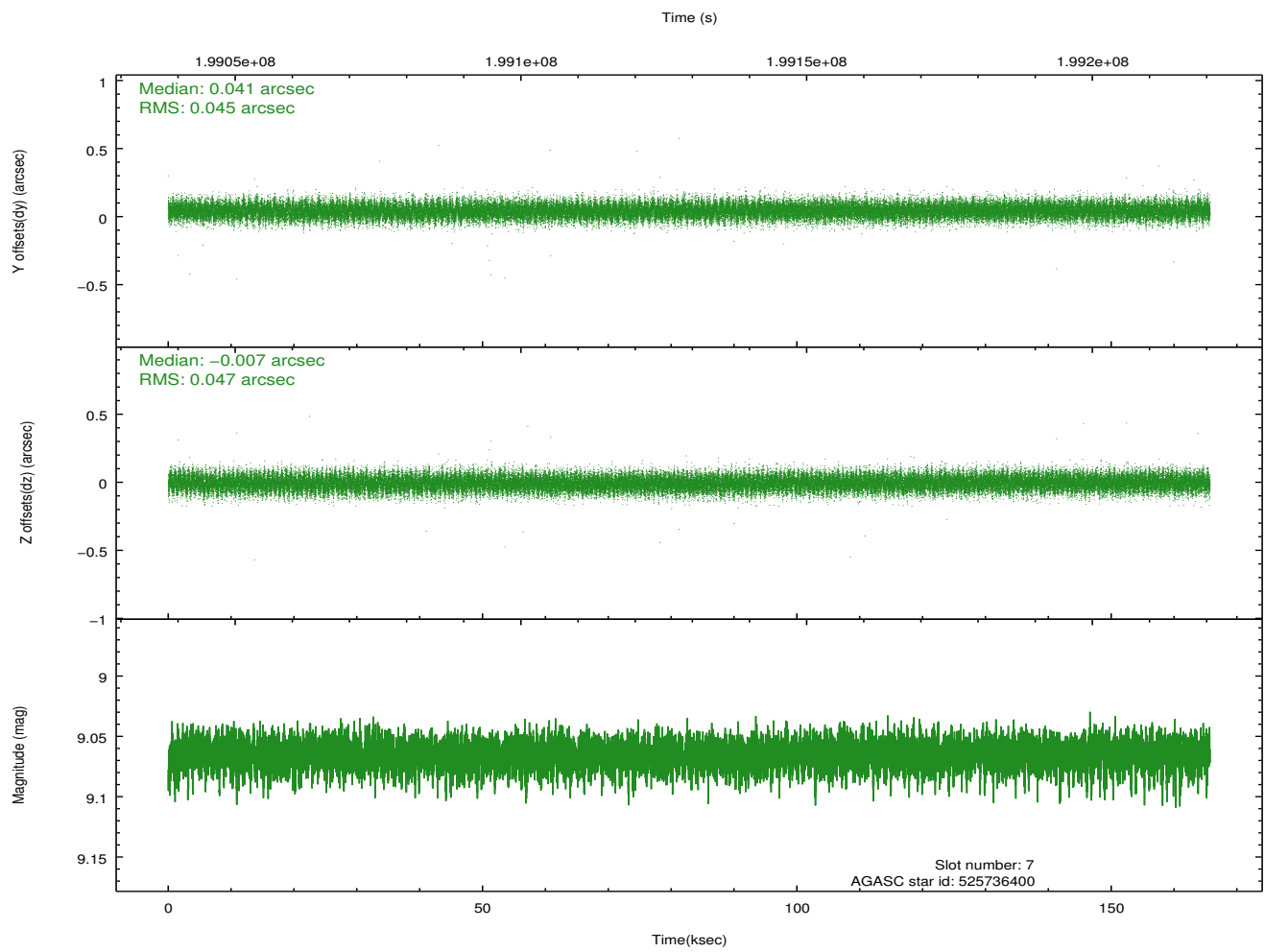
2.4.3 Slot 5



2.4.4 Slot 6

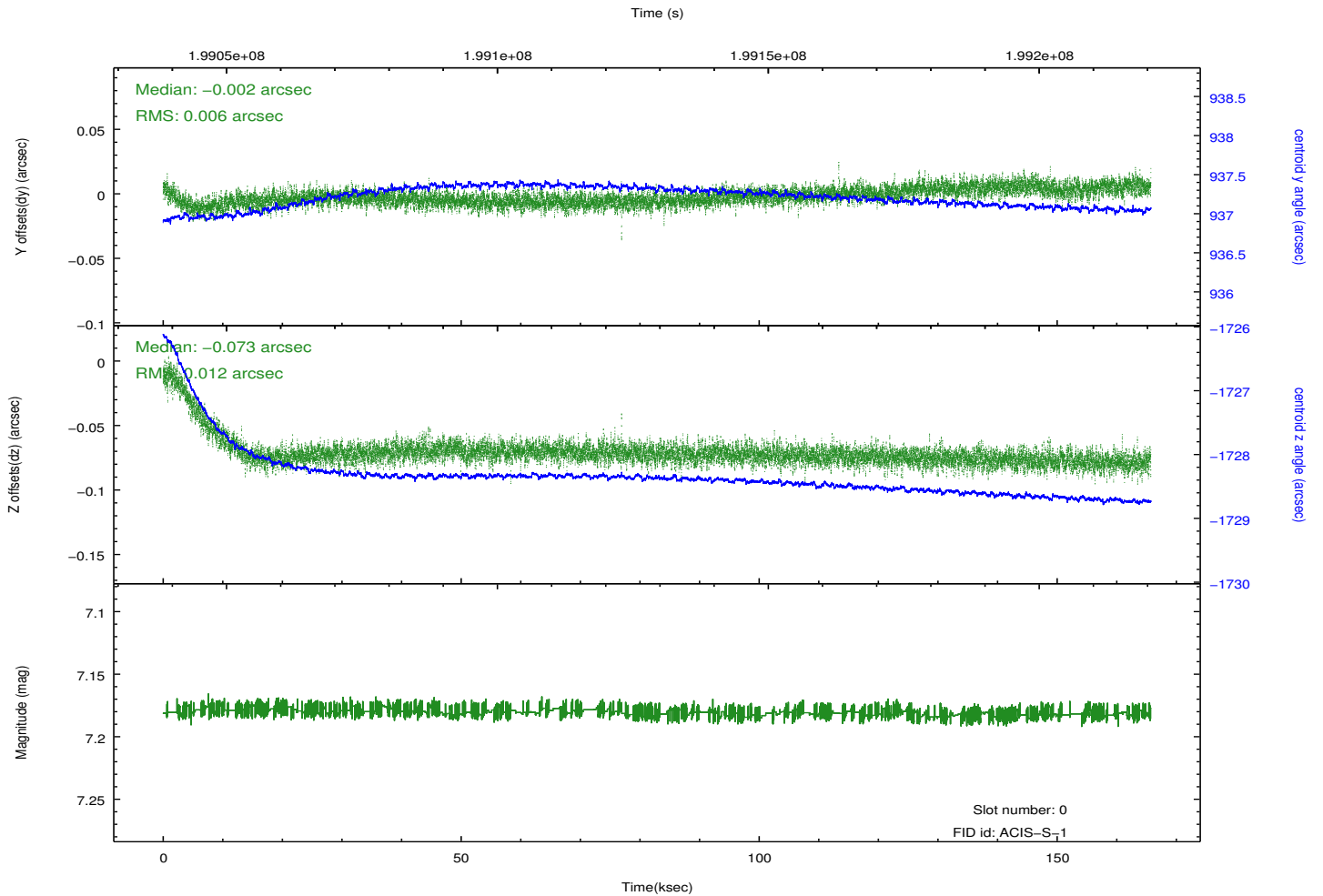
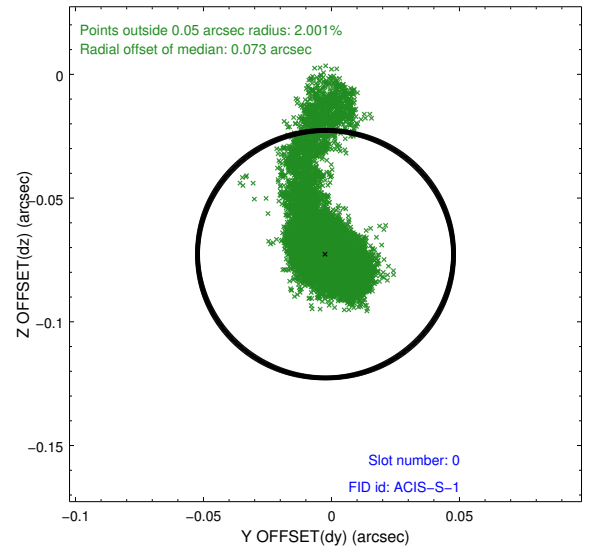
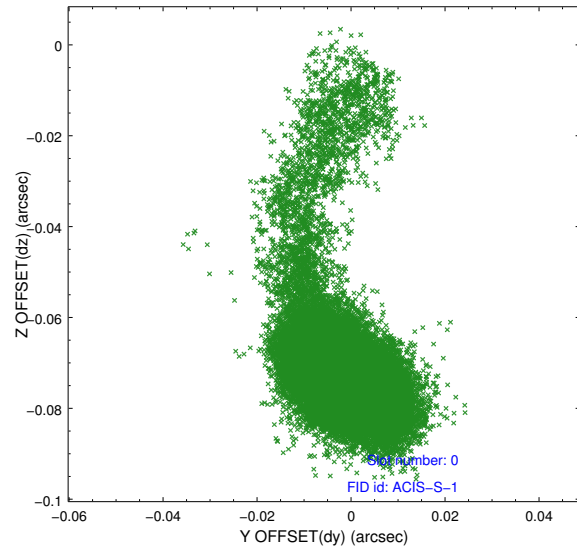


2.4.5 Slot 7

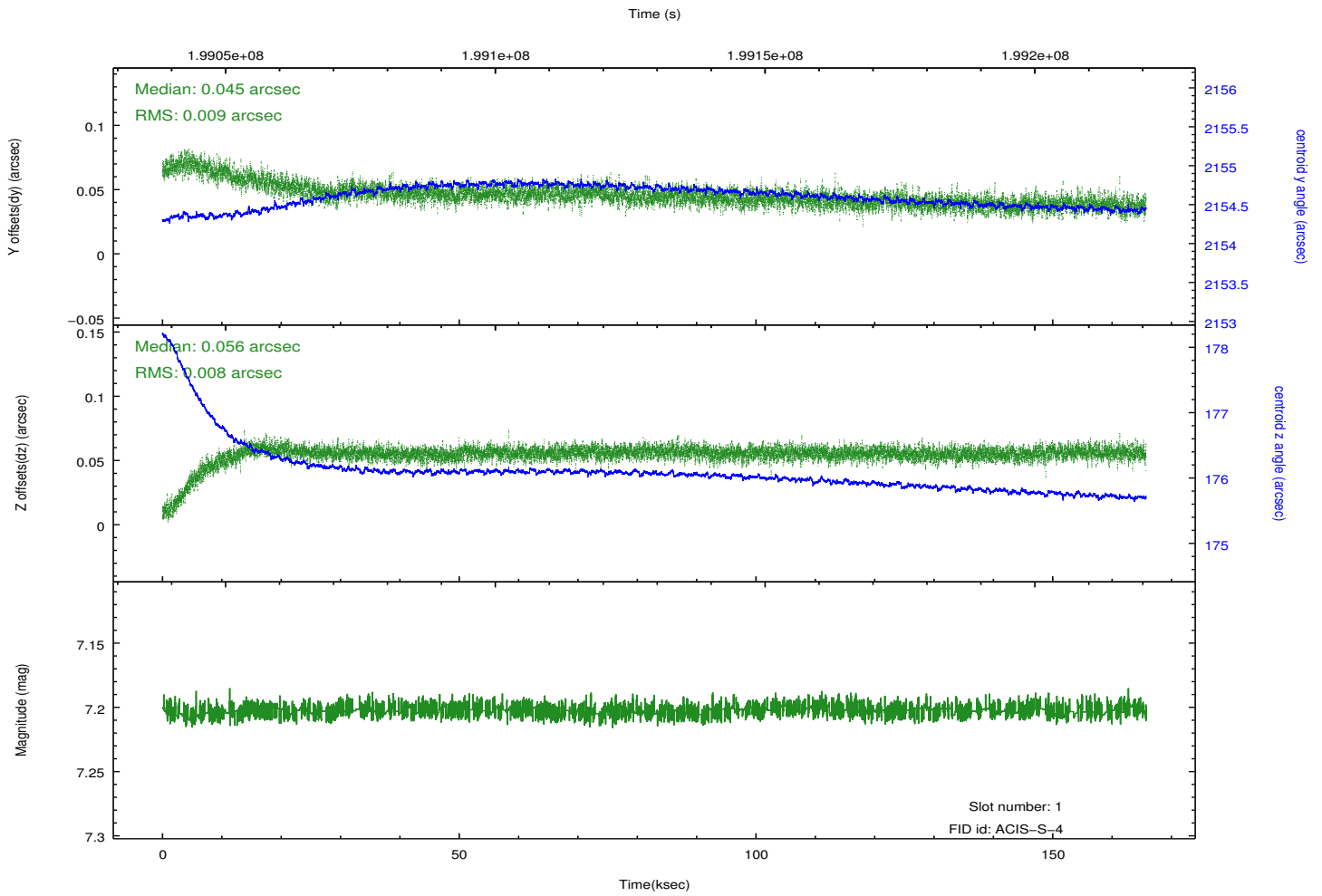
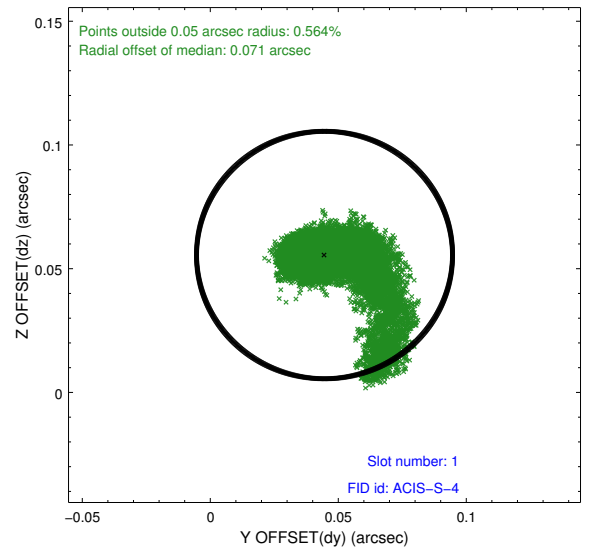
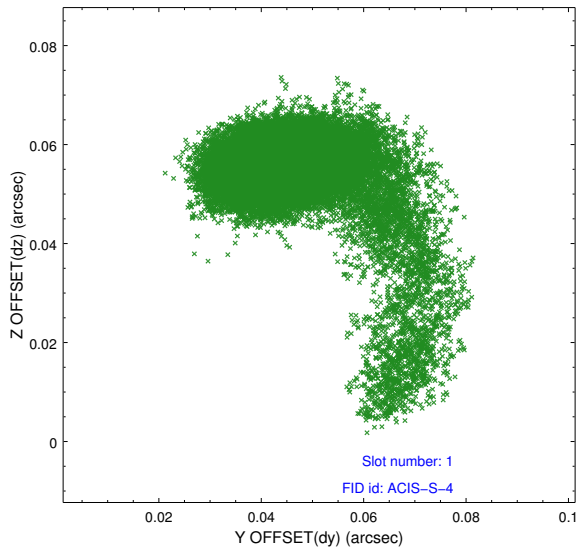


2.5 FID Slots

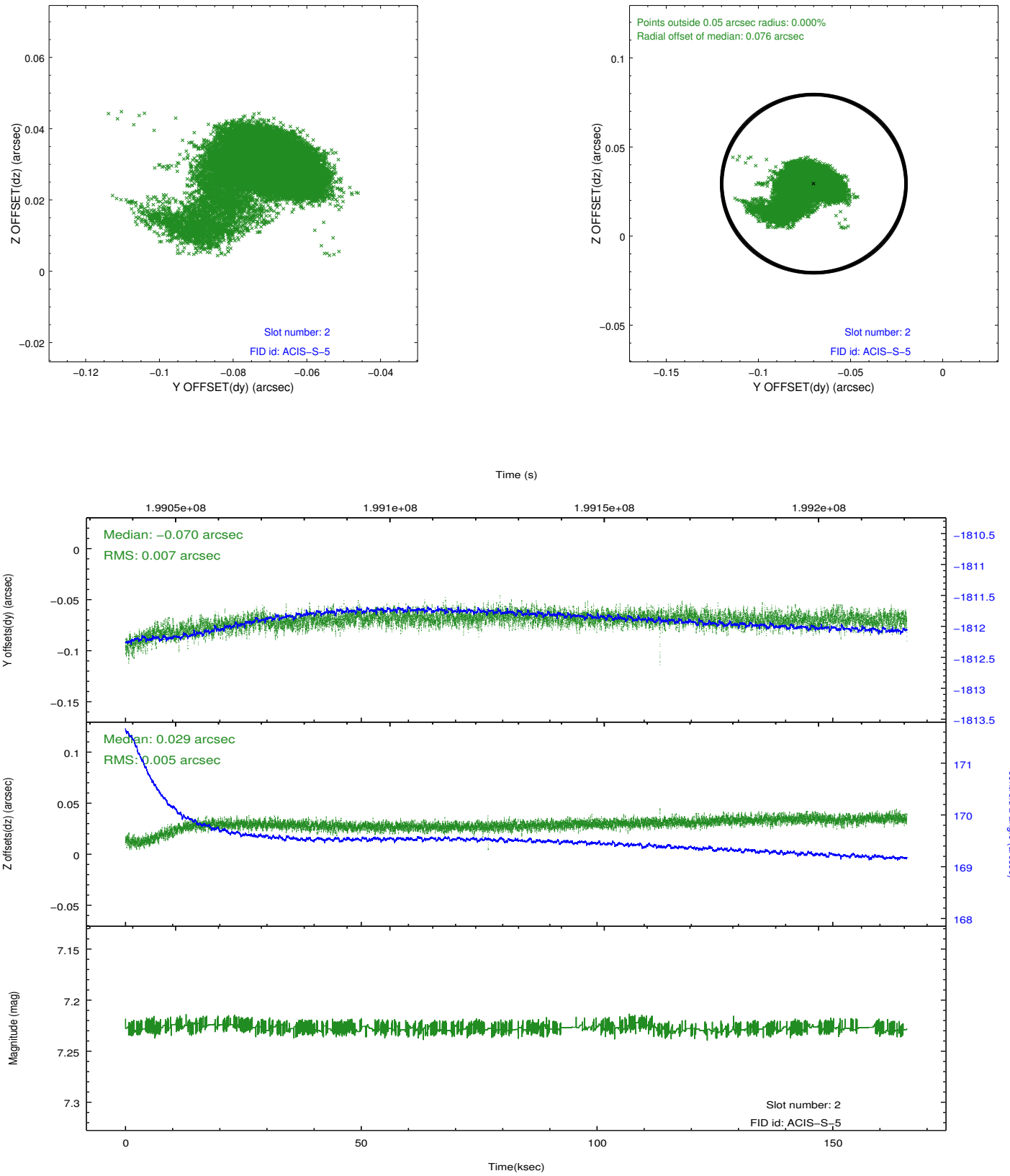
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	165.66

A.2 Comments

Single value telemetry corruption in fourth quaternion in
pcadf199060338N001_3_eng0.fits (original file name in AP).

Corrupted value replaced manually.

===pcadf199060338N005_3_eng0.fits corrupted value=====

Row=5225===== Column=AOATTQT4===== Value=-0.19539724659262

=====corrected to Value=0.80460278391547