

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 4670 - L2 Version 3
Chandra X-Ray Center

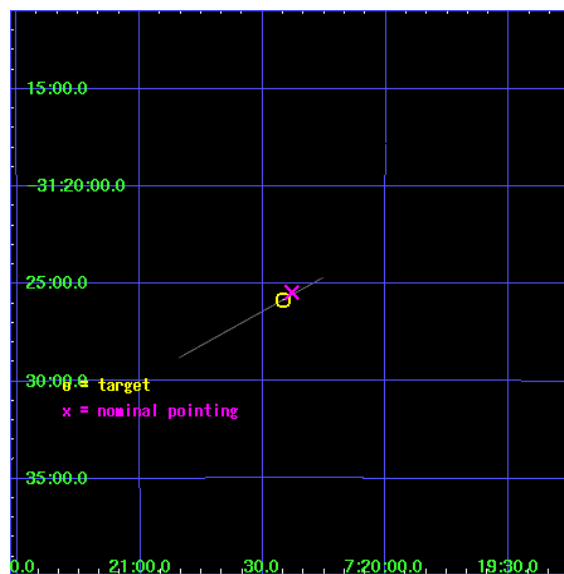
L2 Processing Date : Apr 11 2008

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

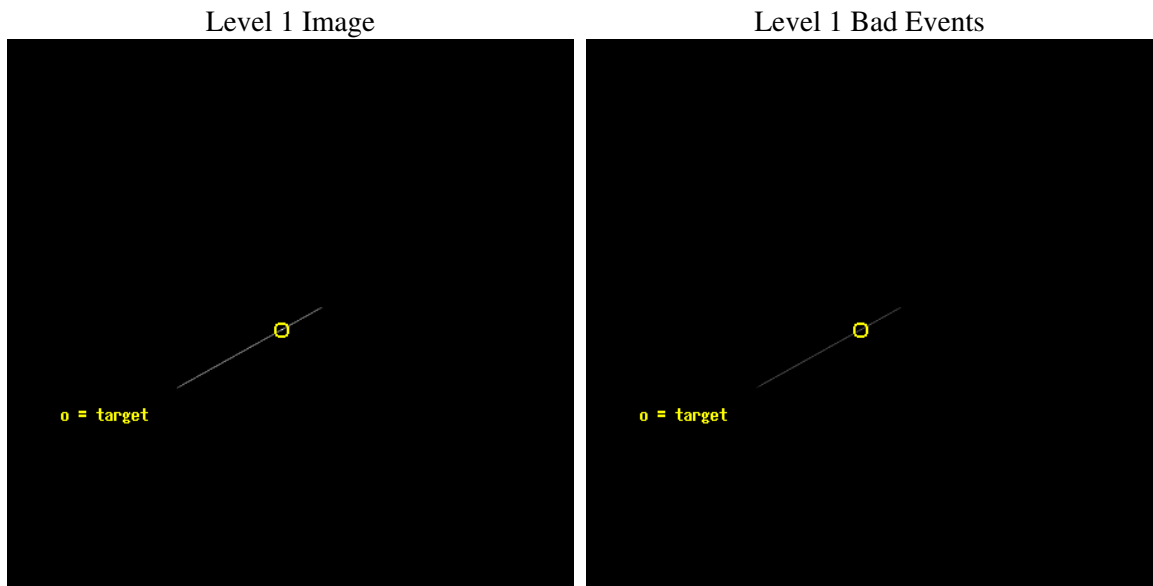
seq_num	500489
obs_id	4670
title	Timing the Enigmatic Nearby Neutron Star RX J0720.4-3125
observer	Dr David Kaplan
object	RX J0720.4-3125
ra_targ	110.104167
dec_targ	-31.430444
ra_nom	110.09542192293
dec_nom	-31.424361167908
roll_nom	151.21958472891
revision	3
ontime	10130.25
livetime	10090.678710938
ontime7	10130.25
l2events	54658



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	2
ascdsver	7.6.11.6
caldsver	3.4.4
date	2008-04-11T20:29:47
revision	3

sched_exp_time	10000.000000
ontime	10130.25
ontime7	10130.25
l1events	69259

2.1.4 Events

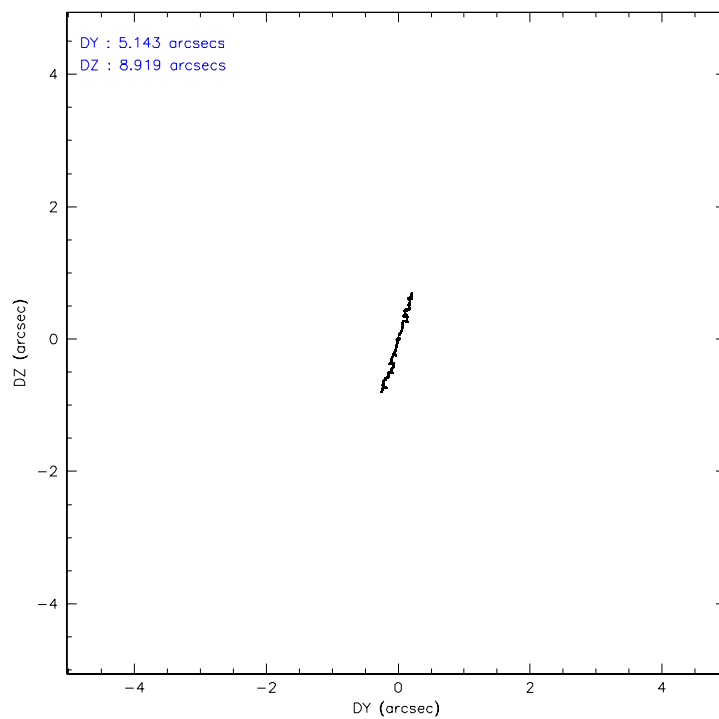
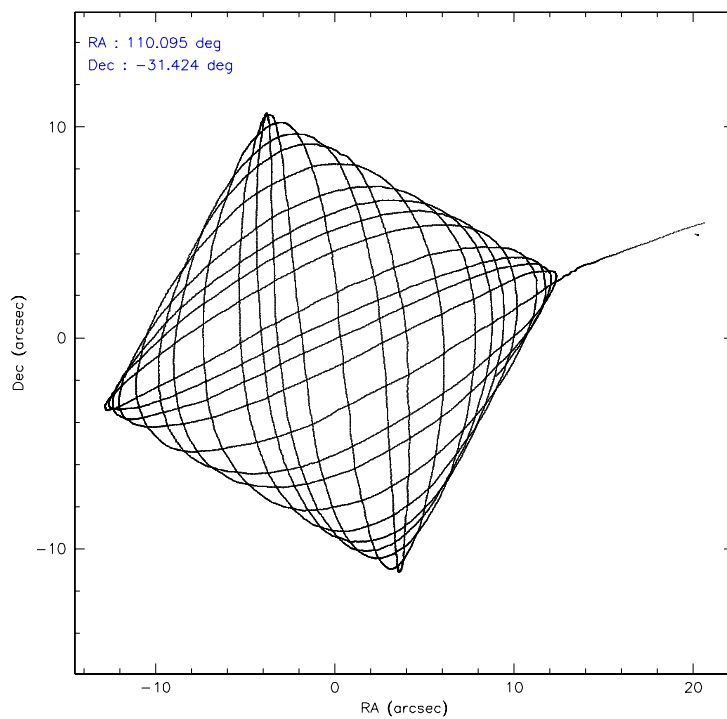
	ccd 7
level 1 events	69259
rejected events	12879
rejected %	18%

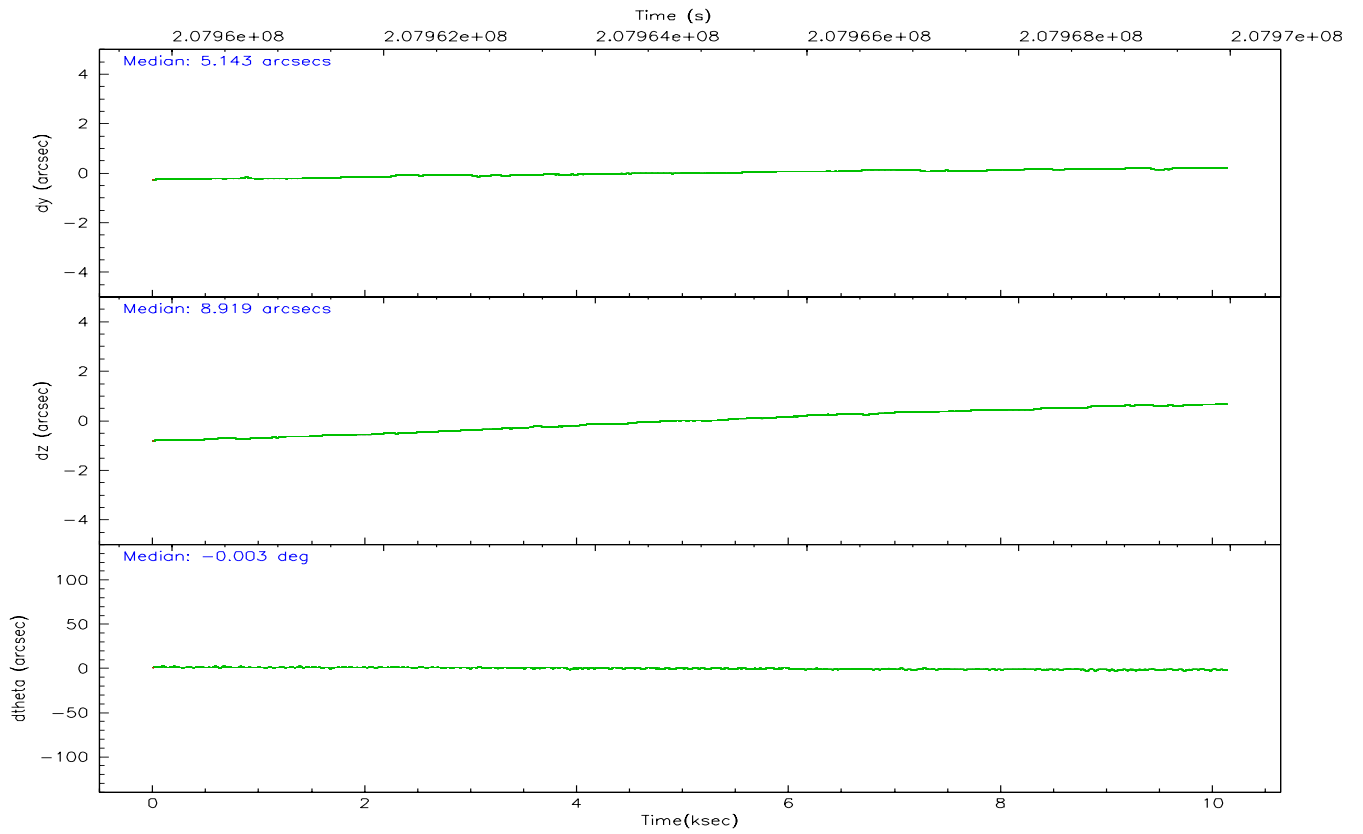
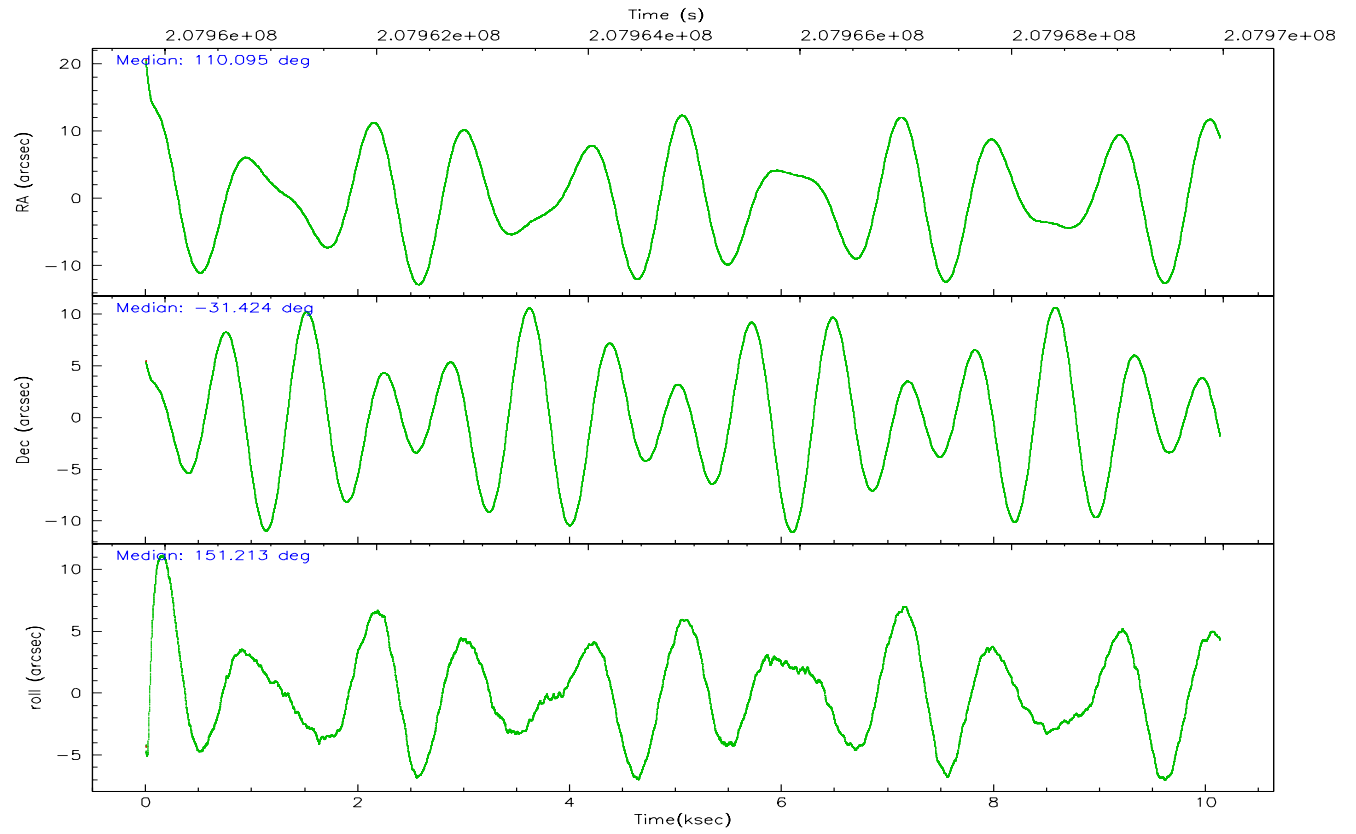
	ccd 7
grade 0 events	15064
	21%
grade 1 events	168
	0%
grade 2 events	13956
	20%
grade 3 events	4699
	6%
grade 4 events	4641
	6%
grade 5 events	8677
	12%
grade 6 events	22054
	31%
grade 7 events	0
	0%

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	CC33_FAINT	CC33_FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	110.127237	110.0954219229255	Alternating exposures requested	N	N
Pointing Dec	-31.423417	-31.42436116790789	Primary exposure time	0.000000	0
Pointing Roll	151.079569	151.2195847289065			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	207959963.184000	207958788.34412			
Observation start date	2004-08-03T22:38:19	2004-08-03T22:19:48			
Observation end time	207969963.184000	207970834.14465			
Observation end date	2004-08-04T01:24:59	2004-08-04T01:40:34			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



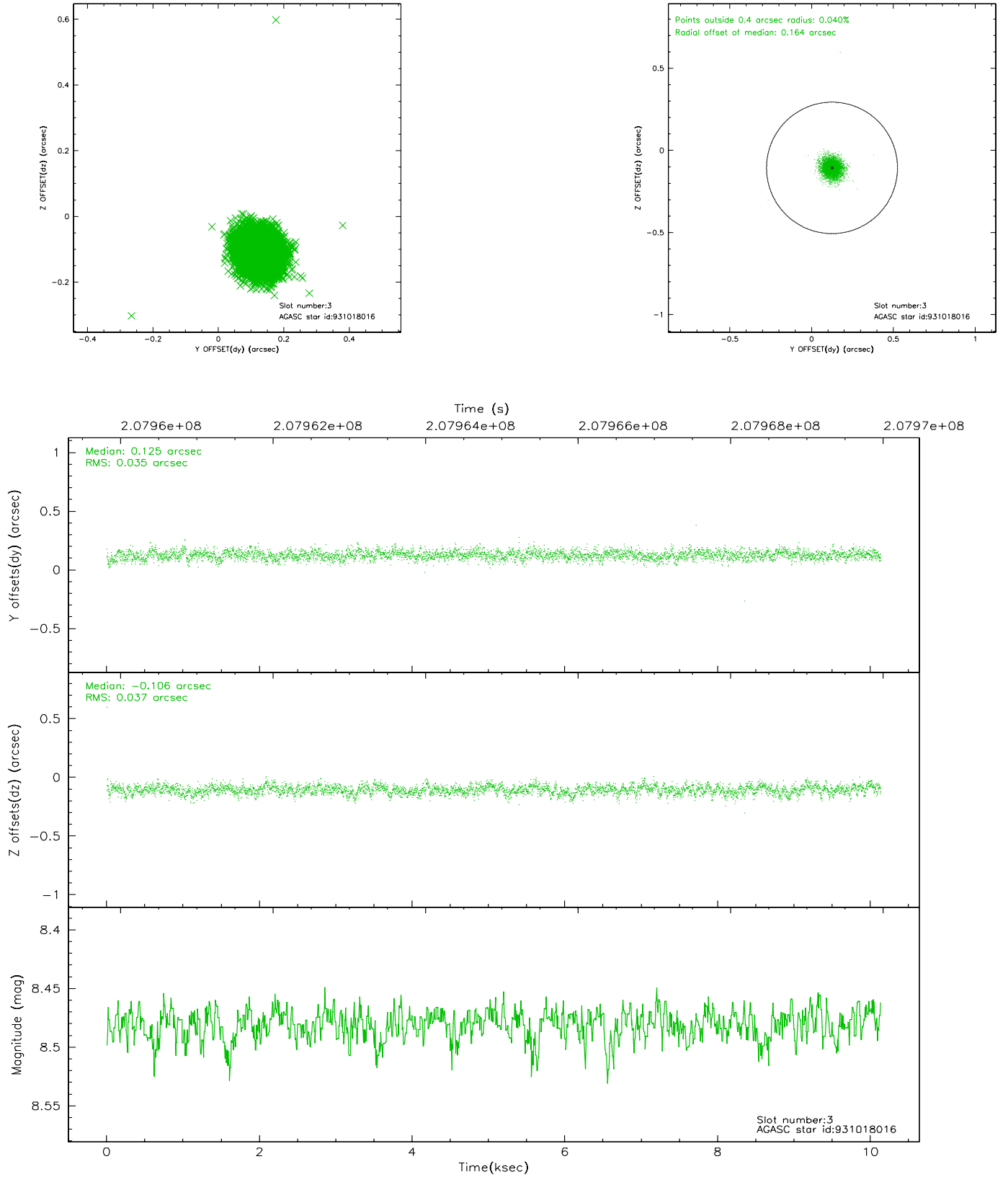


Slot Statistics

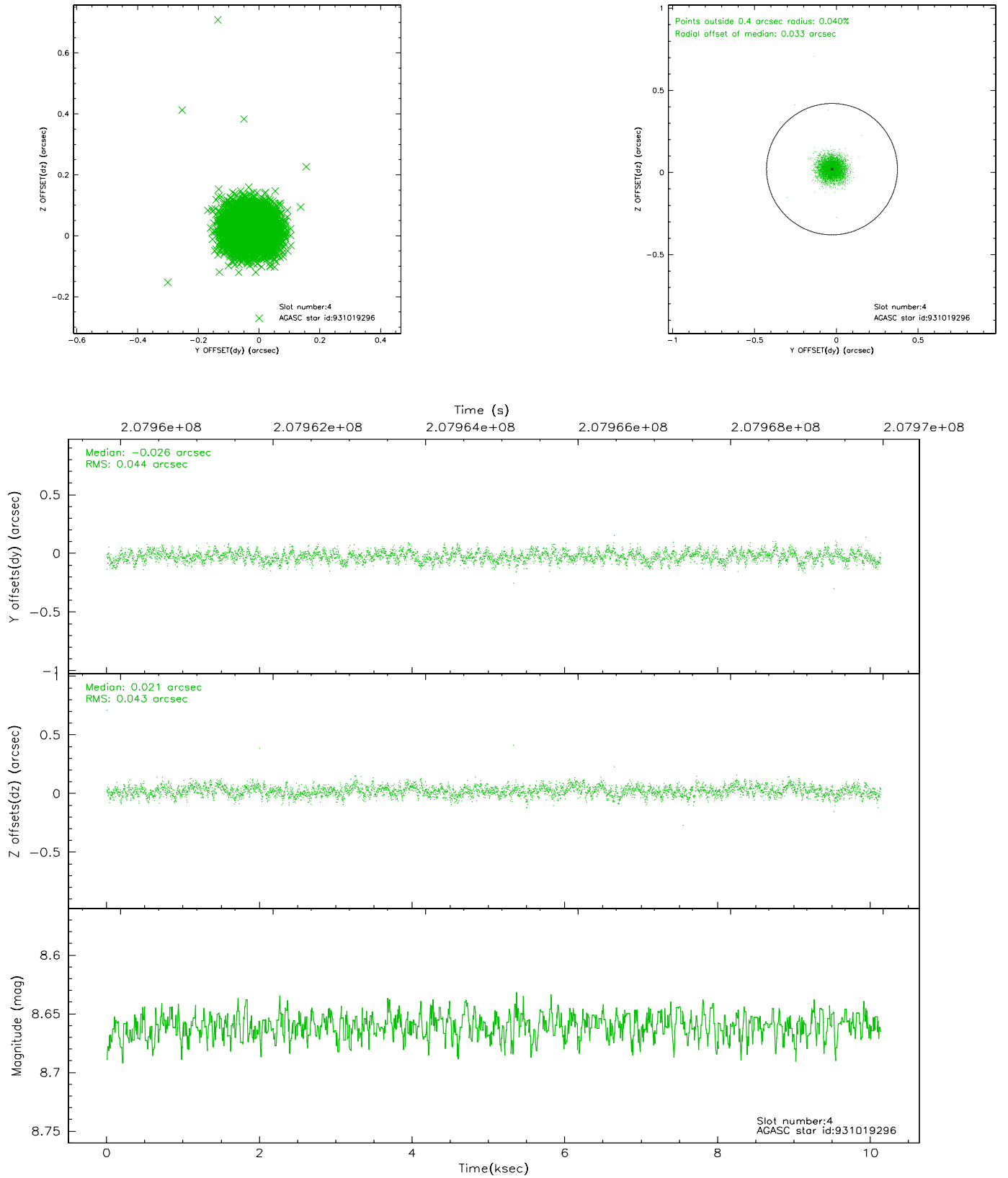
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	2473	-0.071	-0.039	0.011	0.019	0.000000	0.000000	-757.93	-1730.09
1	FID	ACIS-S-4	7.20	2473	0.036	0.051	0.008	0.014	0.000000	0.000000	2155.24	177.91
2	FID	ACIS-S-6	7.35	2473	0.007	-0.006	0.009	0.015	0.000000	0.000000	404.83	815.87
3	GUIDE	931018016	8.48	4944	0.125	-0.106	0.052	0.087	109.684535	-31.226562	1534.62	41.50
4	GUIDE	931019296	8.66	4942	-0.026	0.021	0.064	0.103	109.471771	-31.694370	1283.07	1830.72
5	GUIDE	931160352	8.63	4943	0.016	0.109	0.064	0.104	110.268138	-30.864891	591.98	-1969.55
6	GUIDE	931163512	8.44	4945	-0.035	0.048	0.076	0.117	110.894384	-31.299941	-1854.04	-1523.44
7	GUIDE	931022960	8.94	4942	-0.083	-0.073	0.090	0.140	109.733092	-31.864448	285.49	1974.27

2.4 Star Slots

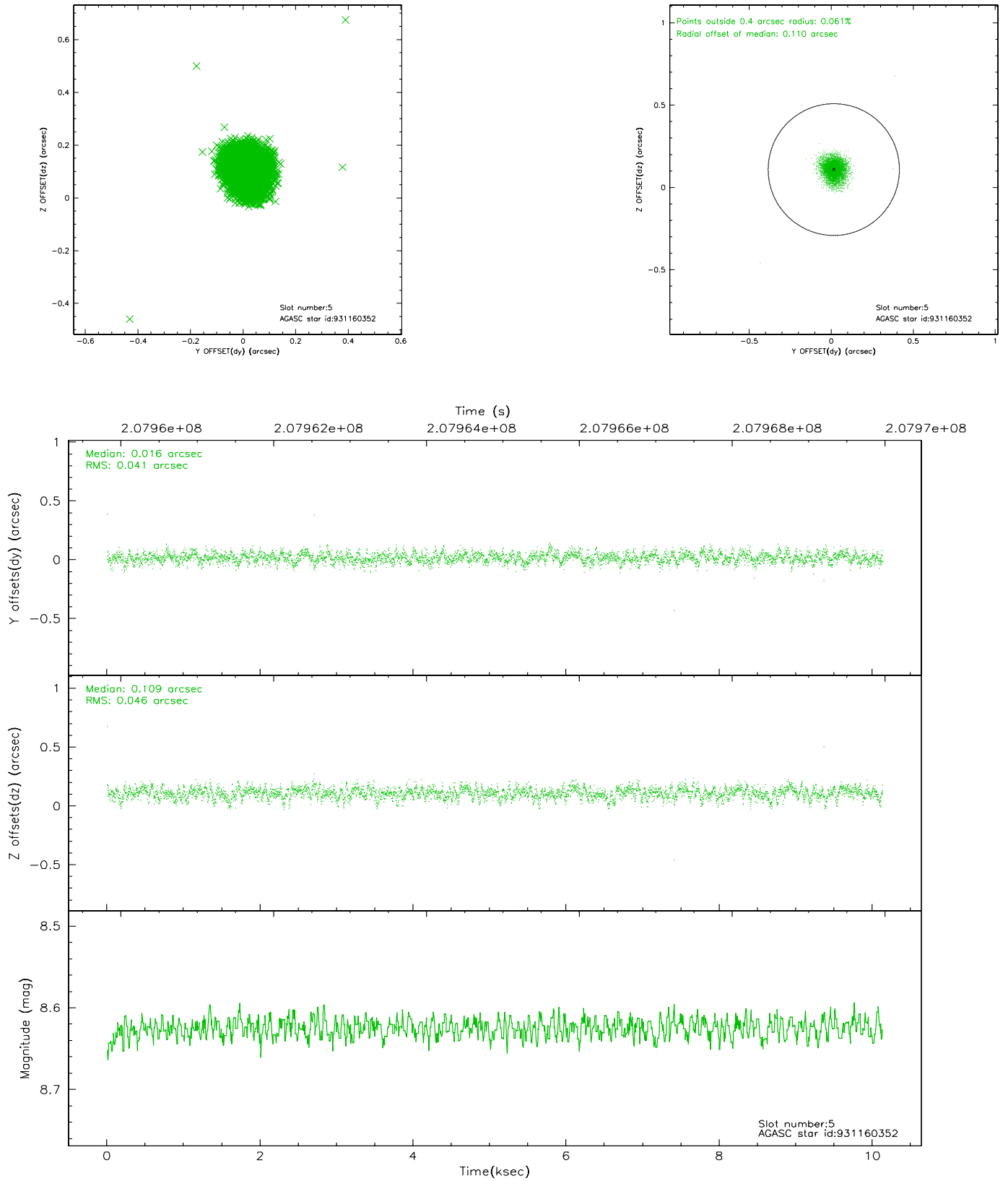
2.4.1 Slot 3



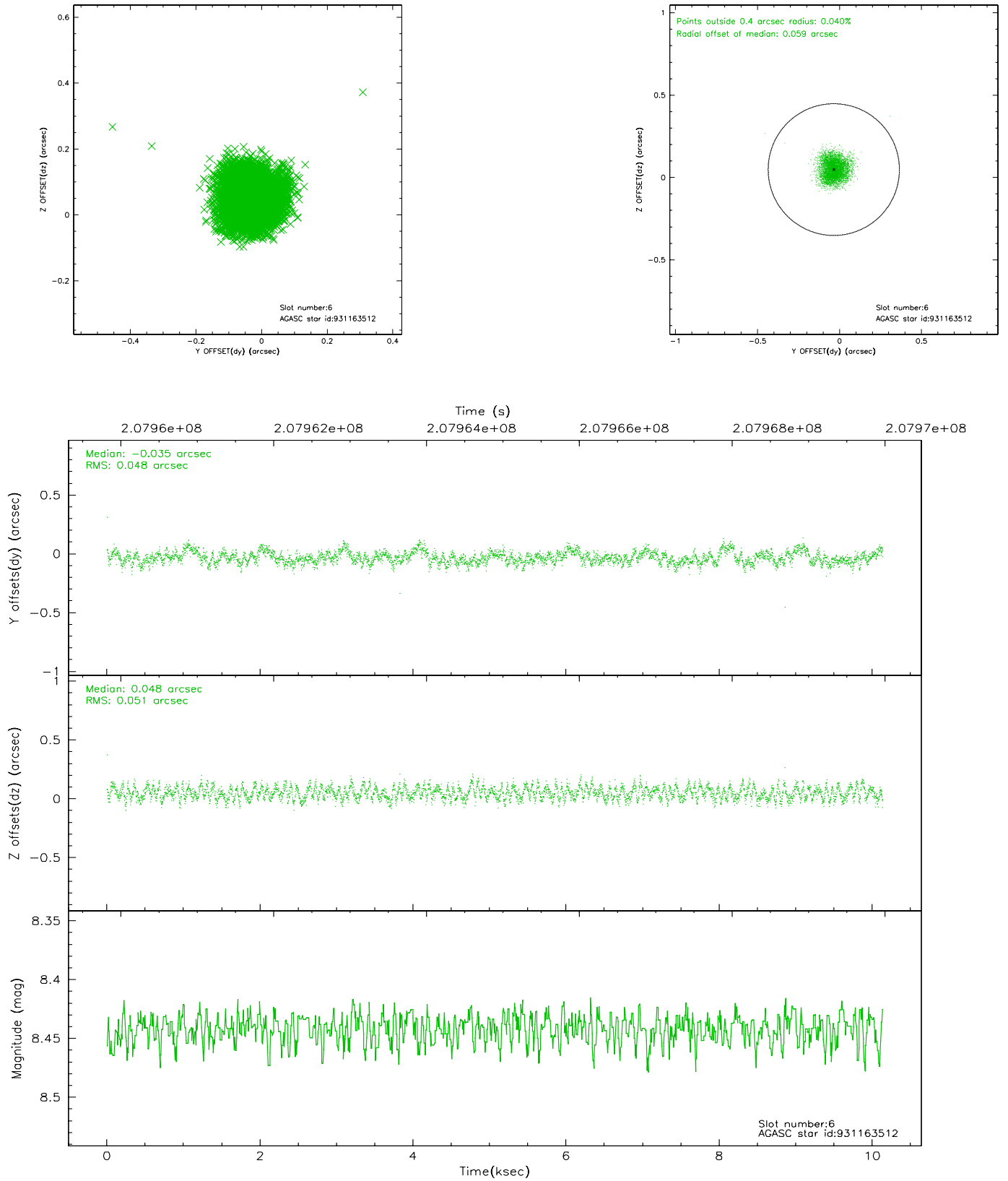
2.4.2 Slot 4



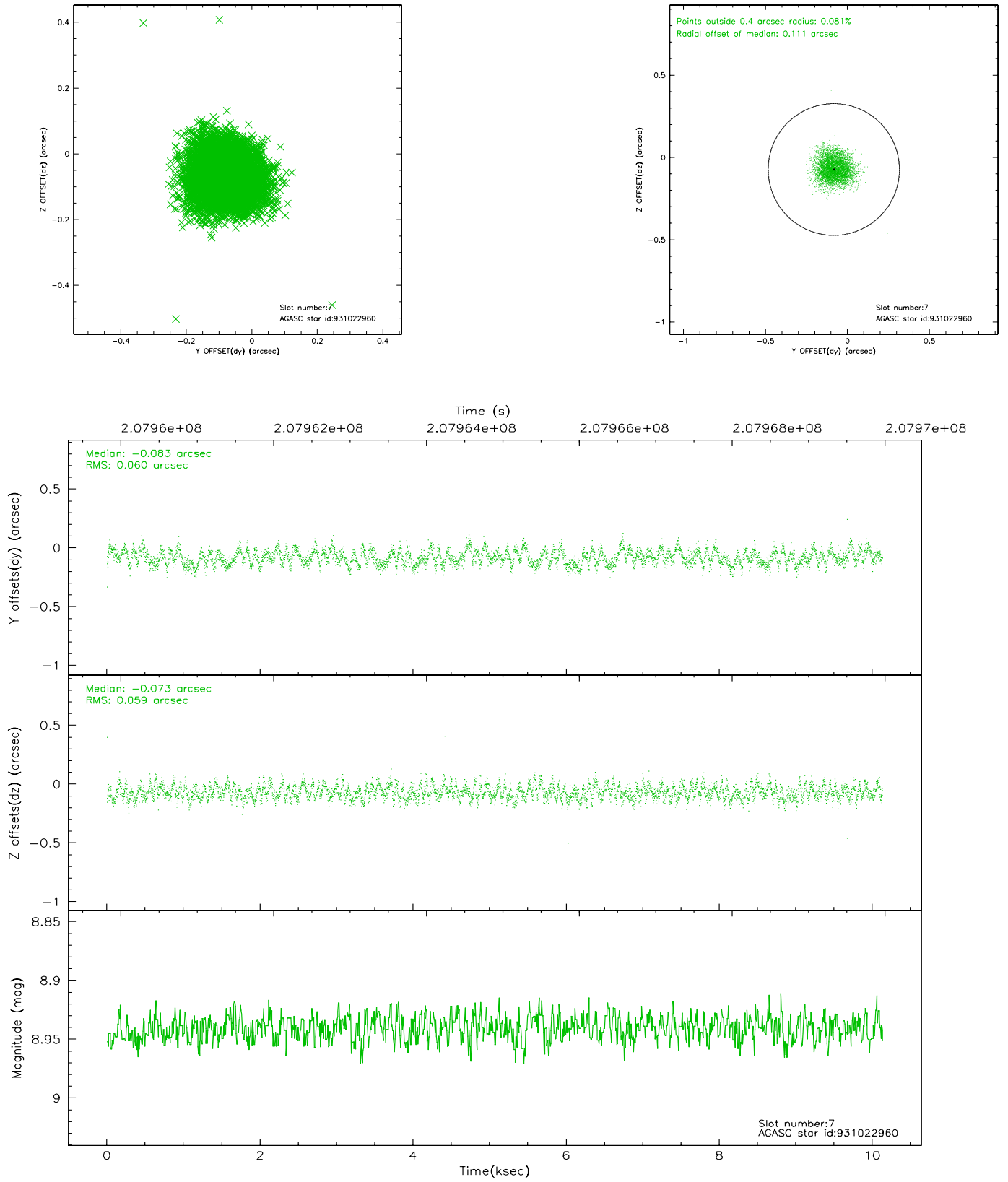
2.4.3 Slot 5



2.4.4 Slot 6

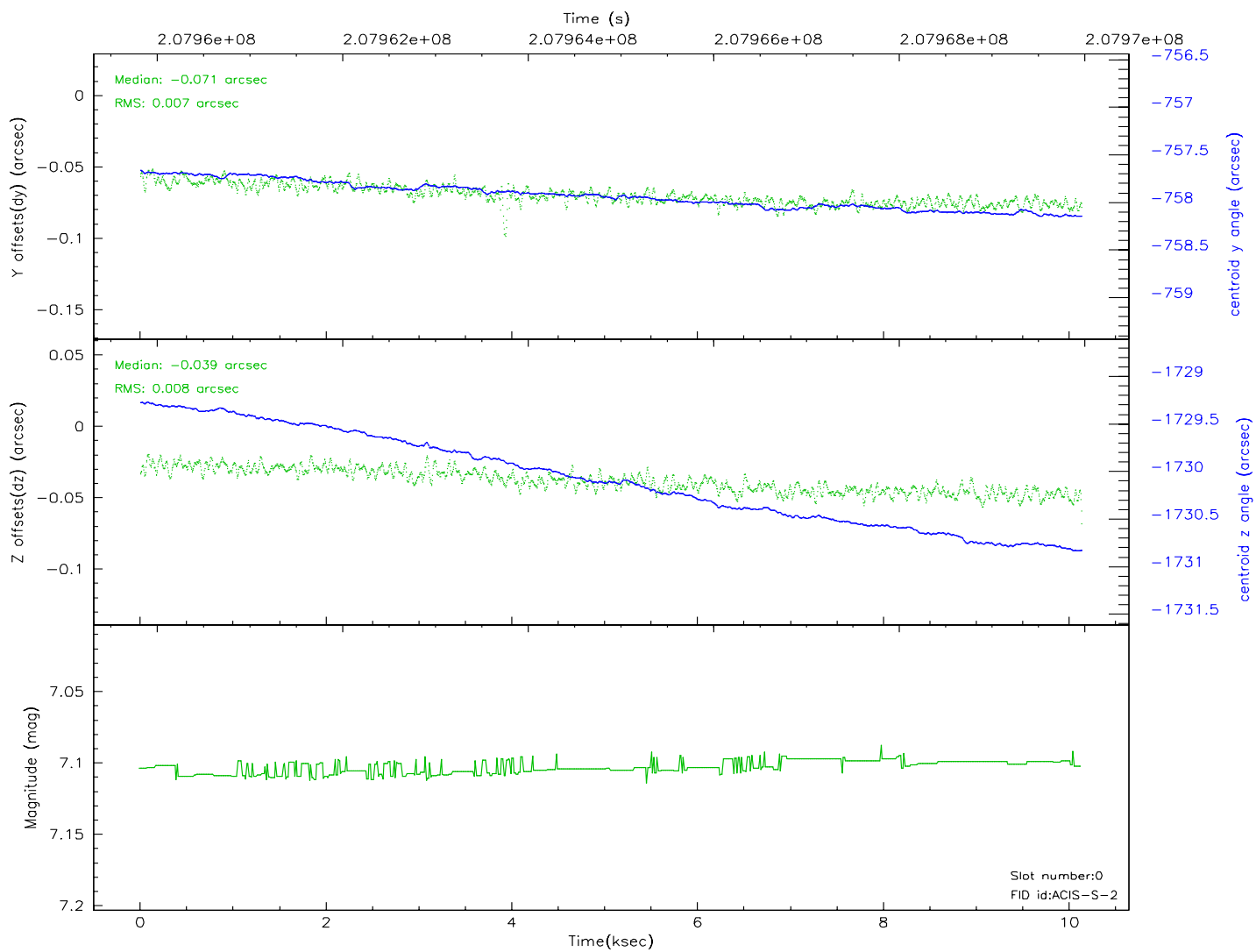
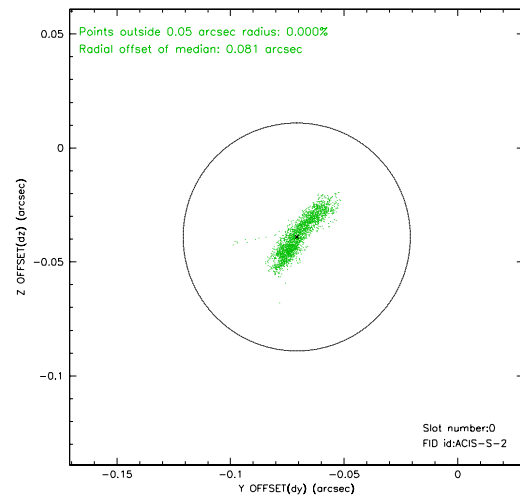
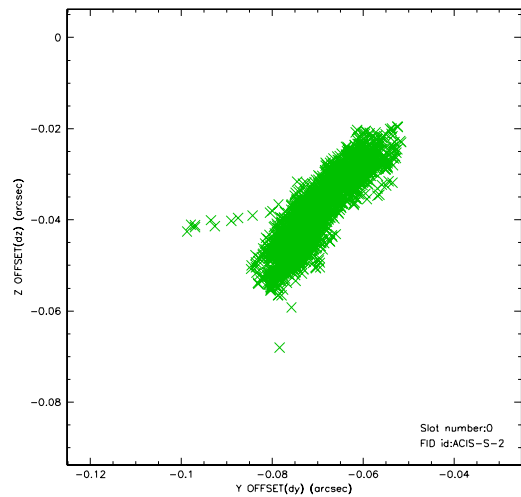


2.4.5 Slot 7

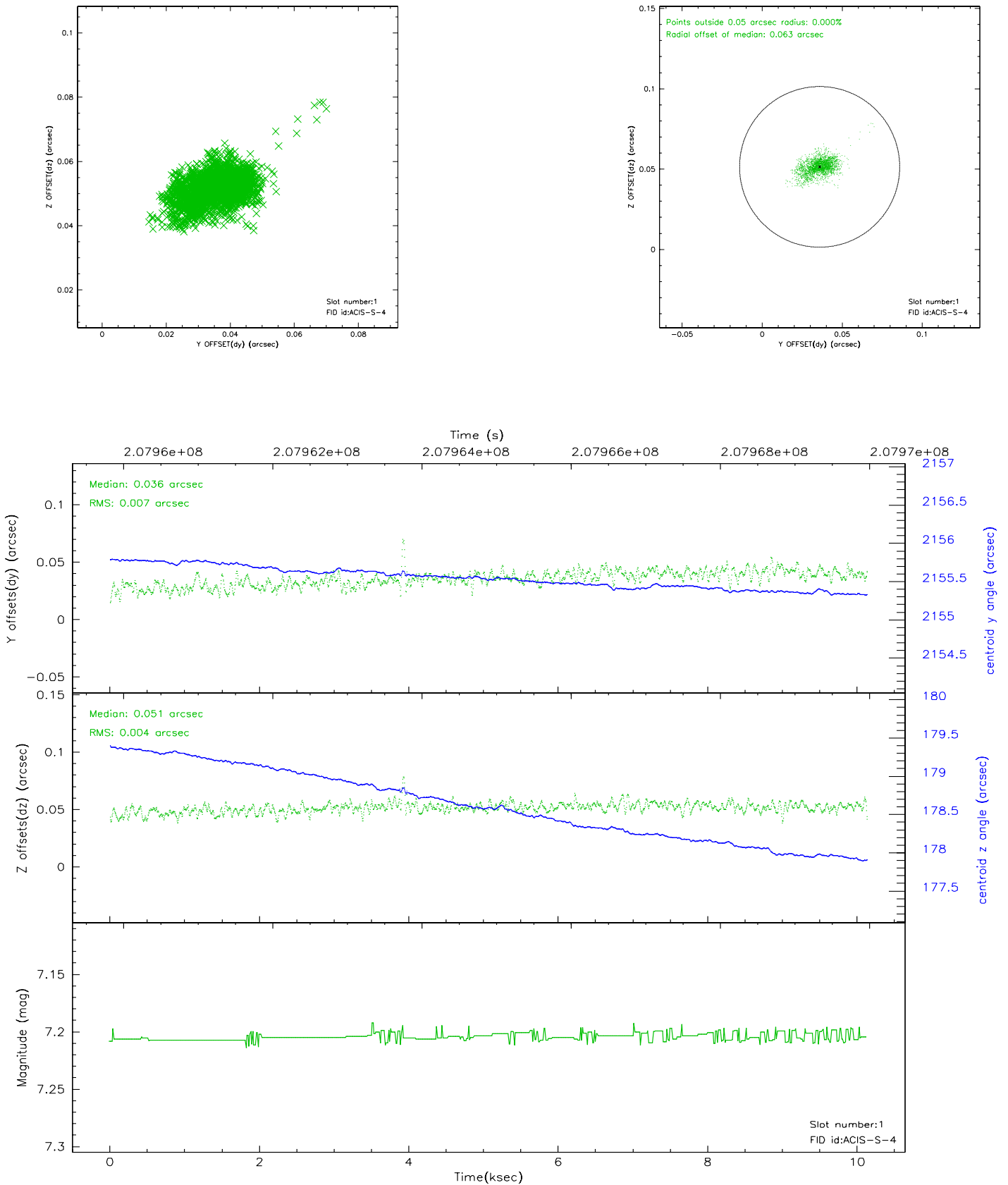


2.5 FID Slots

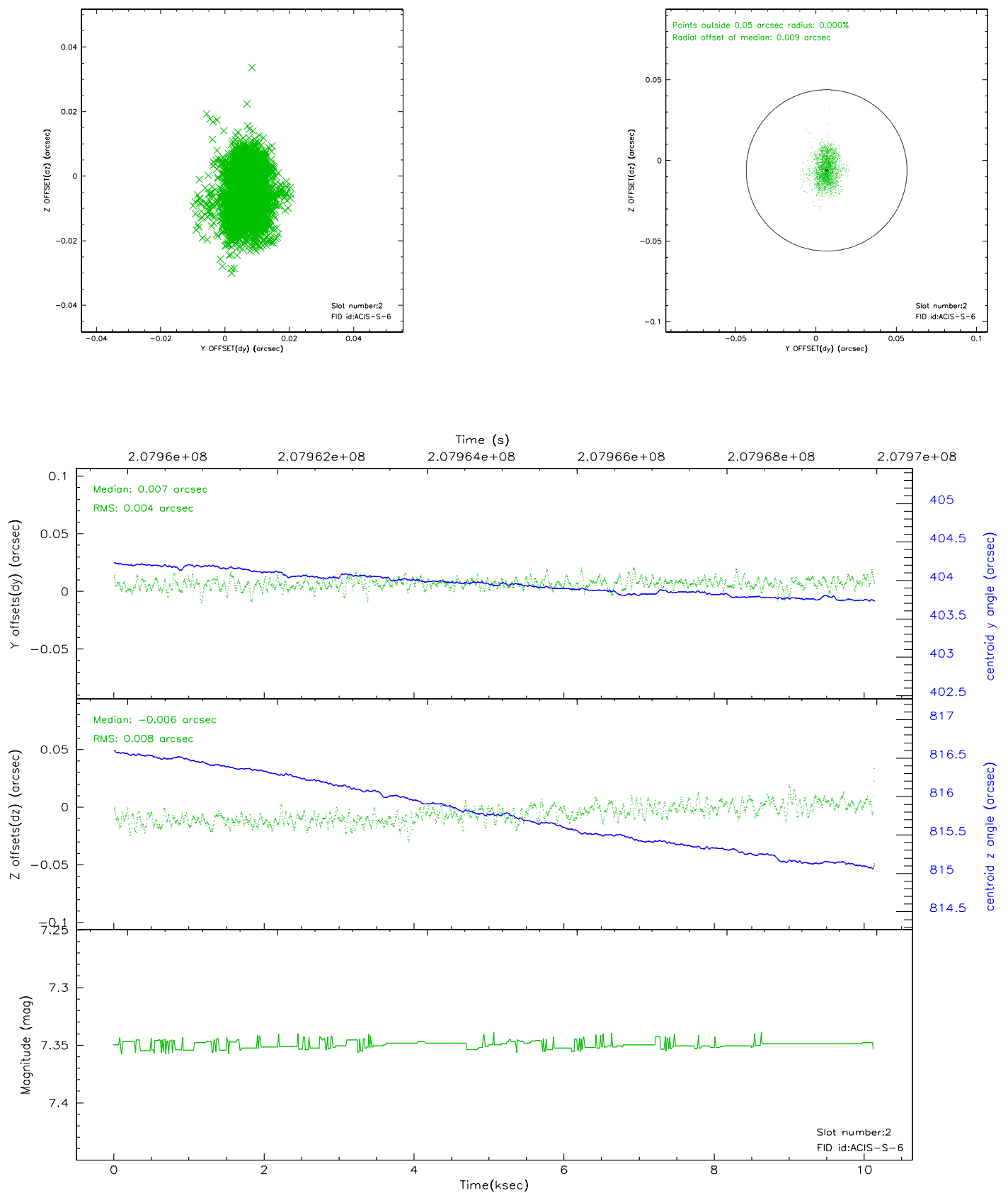
2.5.1 Slot 0



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)	2008.04.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.133

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminated chips are not affected at the focal plane temperatures recorded for this observation. Users whose science objectives depend on the most accurate spectral response (i.e.: 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.