

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 3489 - L2 Version 001
Chandra X-Ray Center

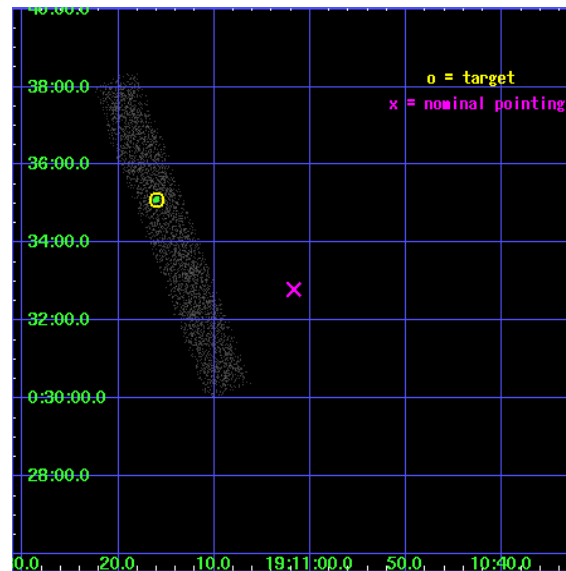
L2 Processing Date : Sep 28 2006

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
3	Point Sources	17
A	Summary	18
A.1	Status	18
A.2	Comments	18

1 Front

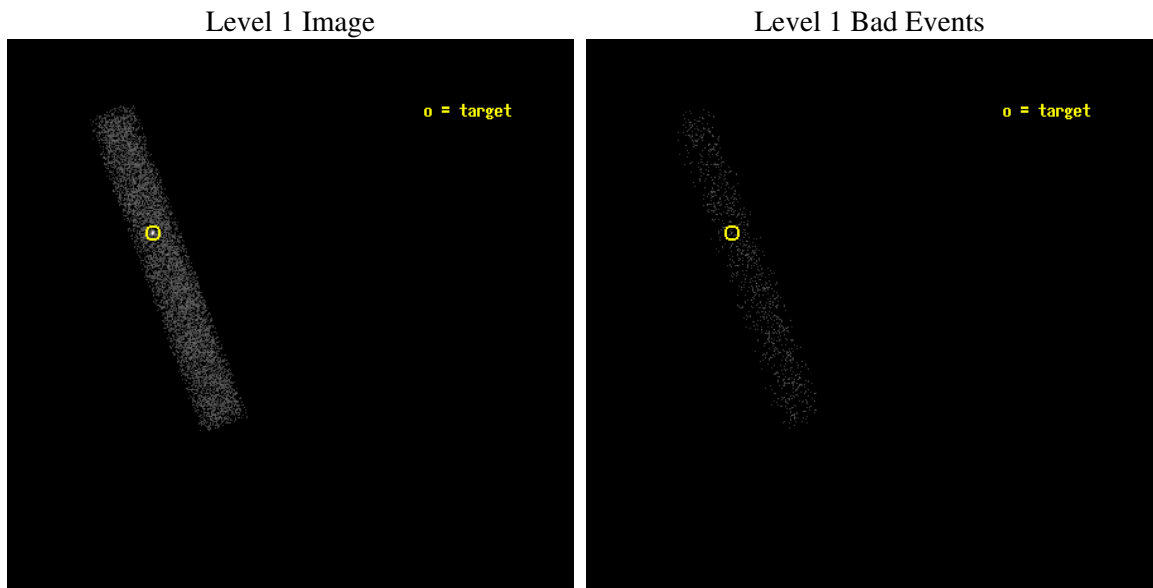
seq_num	400255
obs_id	3489
title	VARIABLE THERMAL EMISSION AND FEATURE FROM AQL X-1 IN QUIESCENCE
observer	Prof. Robert Rutledge
object	AQL X-1
dtcycle	0
cycle	P
ra_targ	287.816667
dec_targ	0.585
ra_nom	287.75714333758
dec_nom	0.54662206671222
roll_nom	249.55450523875
revision	2
ontime	7858.4001170993
livetime	7127.1541058401
ontime7	7858.4001170993
l2events	4729



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldbver	3.2.3
date	2006-09-28T16:29:14
revision	2

sched_exp_time	7000.000000
ontime	7859.2476339936
ontime7	7859.2476339936
l1events	9951

2.1.4 Events

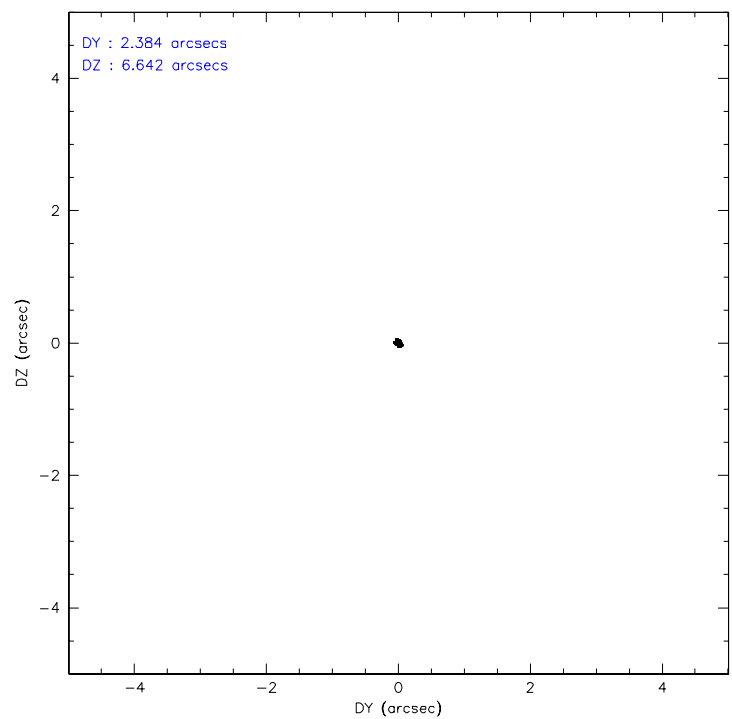
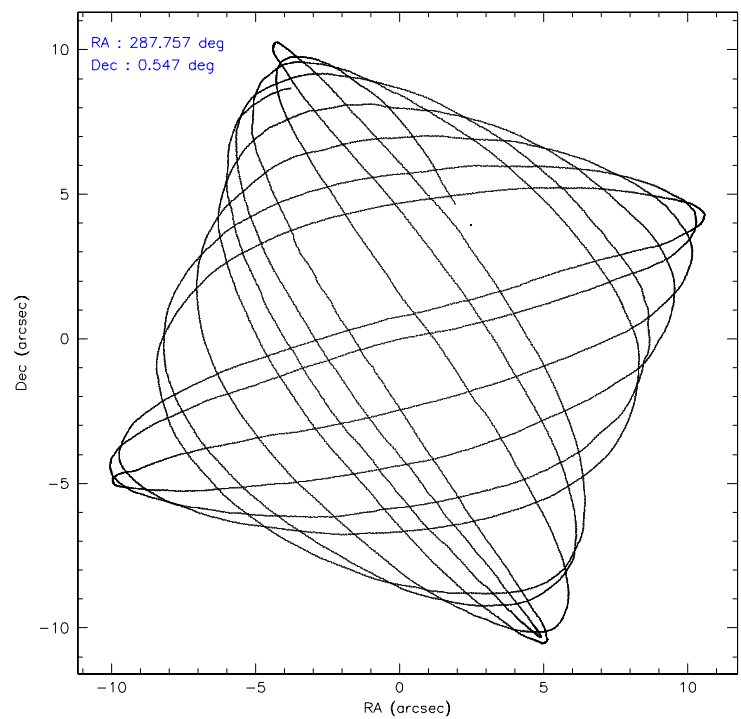
	ccd 7
level 1 events	9951
rejected events	5096
rejected %	51%

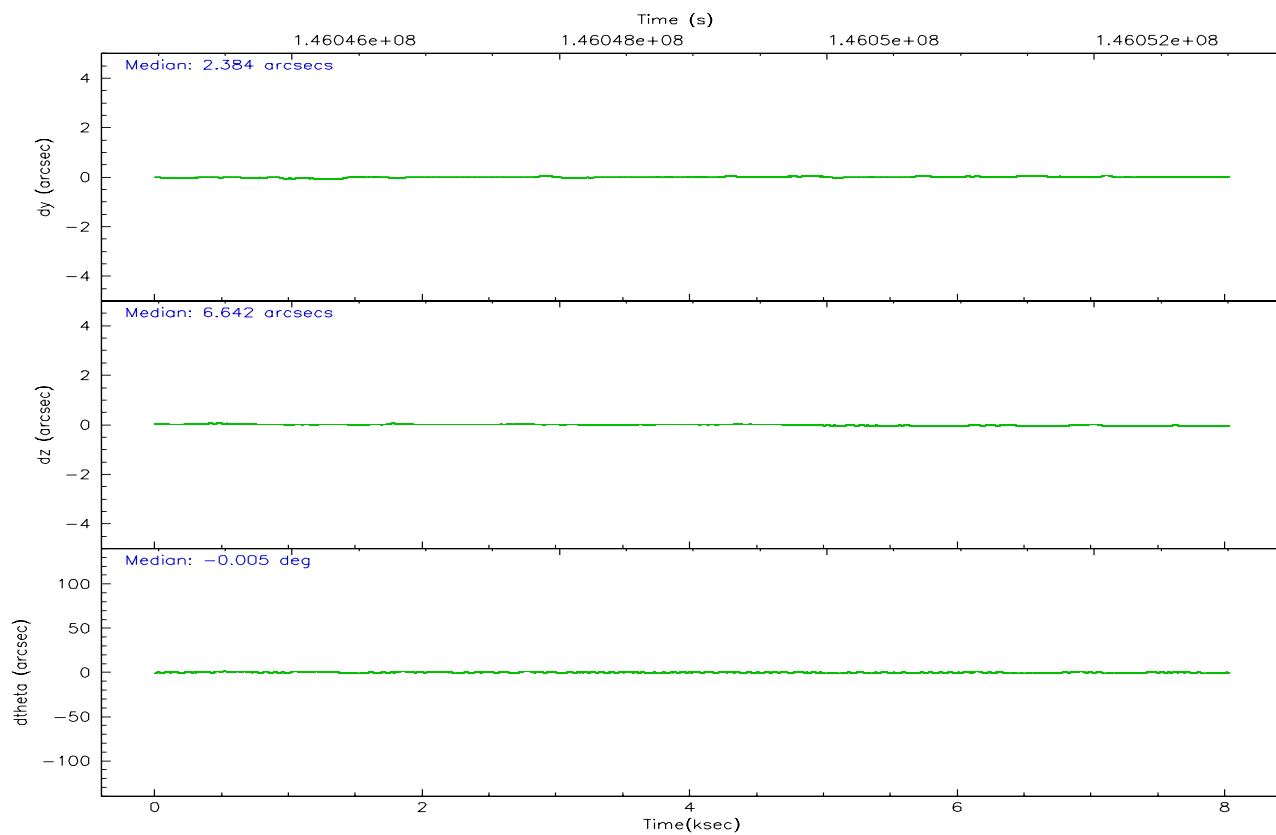
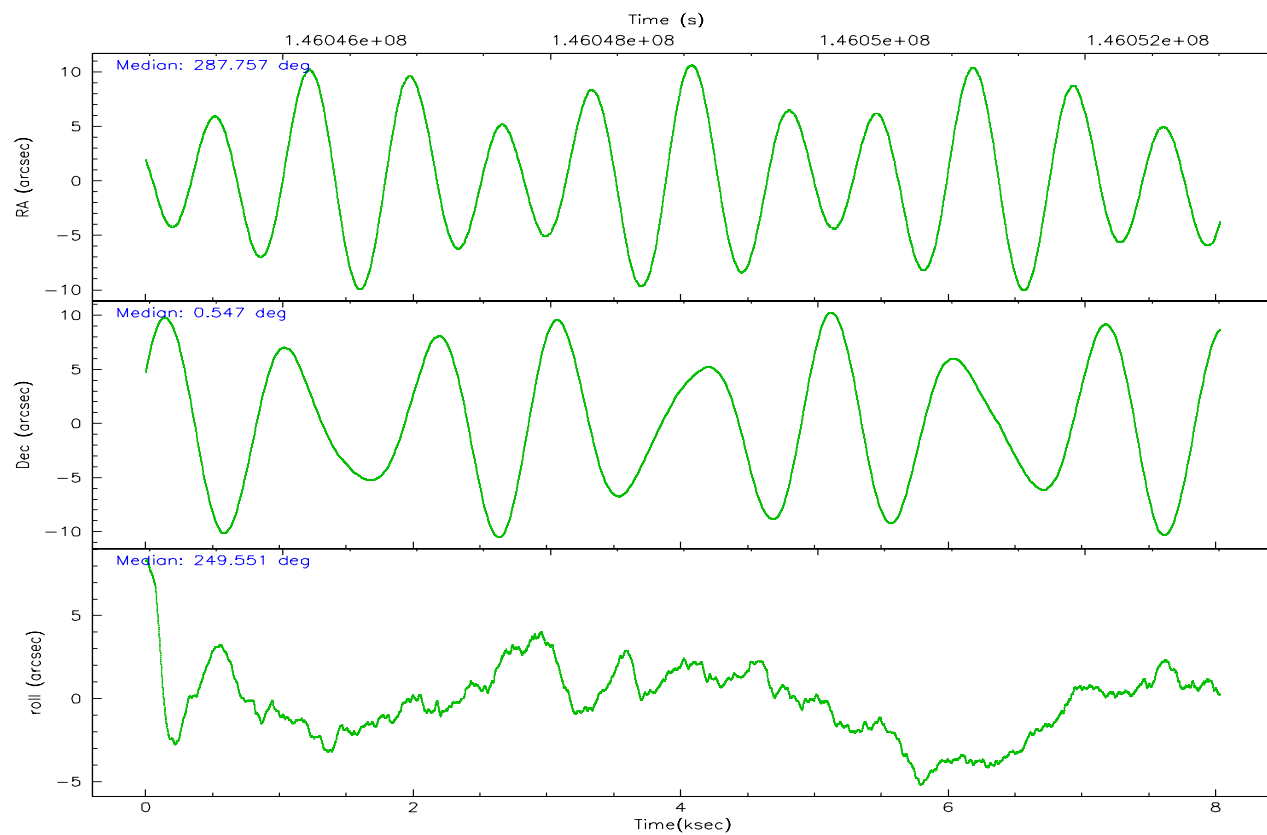
	ccd 7
grade 0 events	524
	5%
grade 1 events	6
	0%
grade 2 events	984
	9%
grade 3 events	557
	5%
grade 4 events	524
	5%
grade 5 events	666
	6%
grade 6 events	2266
	22%
grade 7 events	4424
	44%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	287.752298	287.7571433375797	Subarray requested	CUSTOM	1/8
Pointing Dec	0.573405	0.5466220667122231	Subarray start row	150	150
Pointing Roll	249.397920	249.554505238745	Subarray row count	128	128
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	0.4
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	146046010.184000	146044628.80564			
Observation start date	2002-08-18T08:19:06	2002-08-18T07:57:08			
Observation end time	146053010.184000	146053762.06852			
Observation end date	2002-08-18T10:15:46	2002-08-18T10:29:22			
Read mode	TIMED	TIMED			

2.3 Aspect



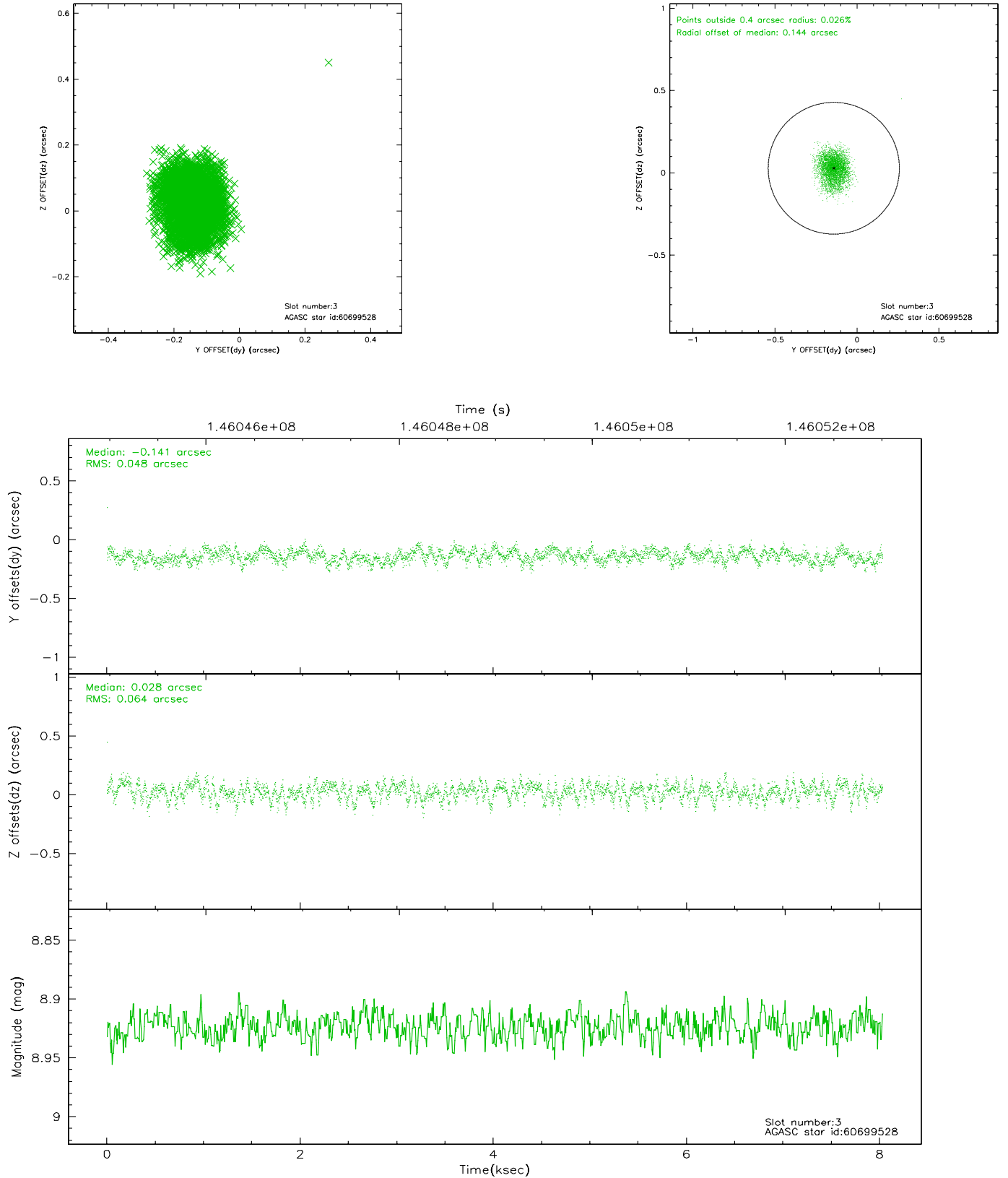


Slot Statistics

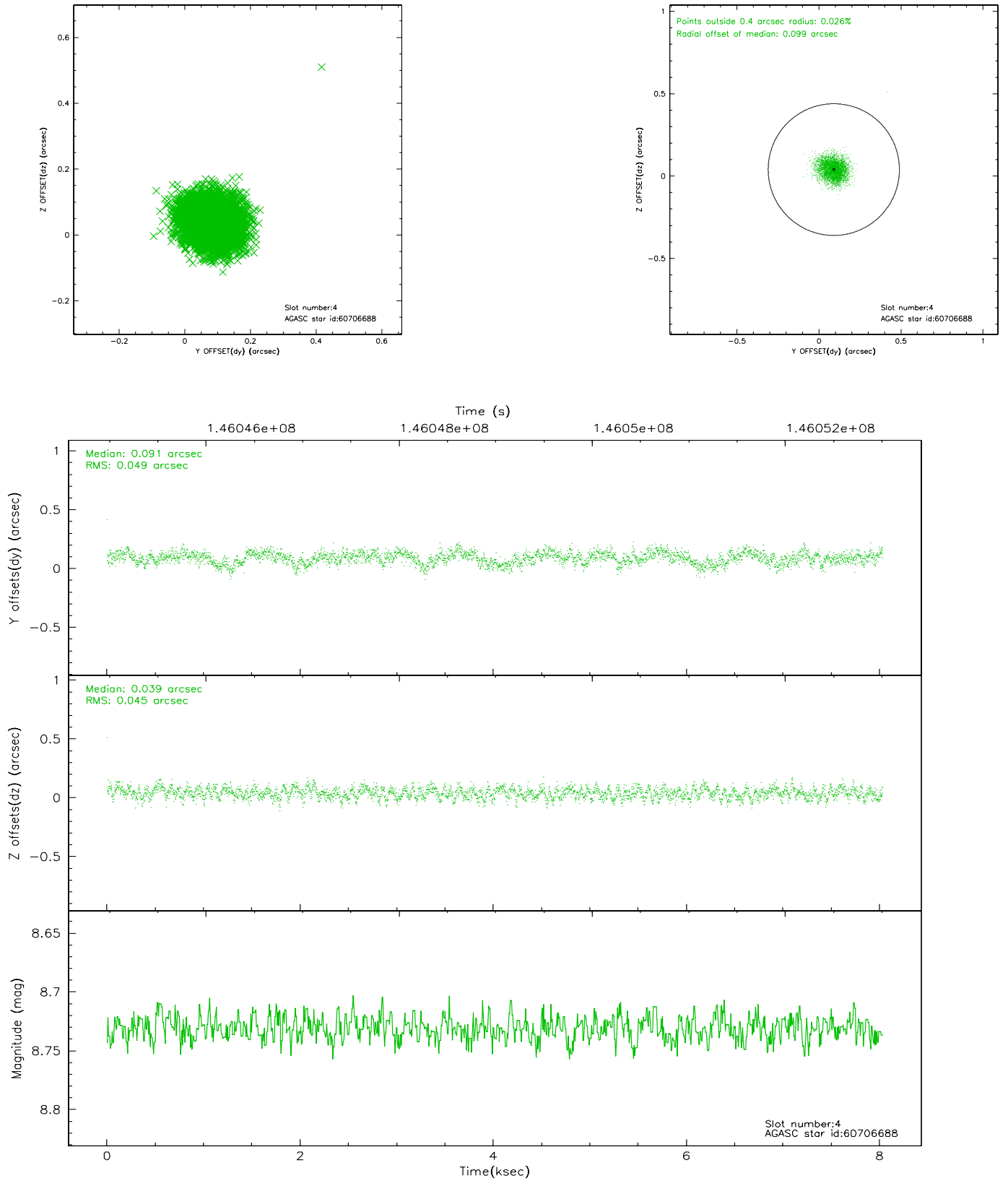
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1959	-0.021	0.032	0.007	0.012	0.000000	0.000000	-755.01	-1727.77
1	FID	ACIS-S-4	7.20	1958	-0.068	0.001	0.005	0.009	0.000000	0.000000	2157.88	179.99
2	FID	ACIS-S-5	7.24	1960	0.057	-0.024	0.006	0.010	0.000000	0.000000	-1806.90	174.39
3	GUIDE	60699528	8.92	3918	-0.141	0.028	0.086	0.137	287.344521	1.231468	-1701.13	-2207.80
4	GUIDE	60706688	8.73	3918	0.091	0.039	0.070	0.113	287.637938	0.689635	-247.05	-533.32
5	GUIDE	60698176	8.85	3917	-0.116	-0.047	0.081	0.128	287.425571	1.234708	-1814.35	-1938.97
6	GUIDE	60705928	9.01	3914	0.004	-0.063	0.077	0.123	287.833535	0.715711	-582.82	92.65
7	GUIDE	60710592	9.41	3909	0.164	0.045	0.092	0.155	287.035703	0.265770	1944.60	-2025.13

2.4 Star Slots

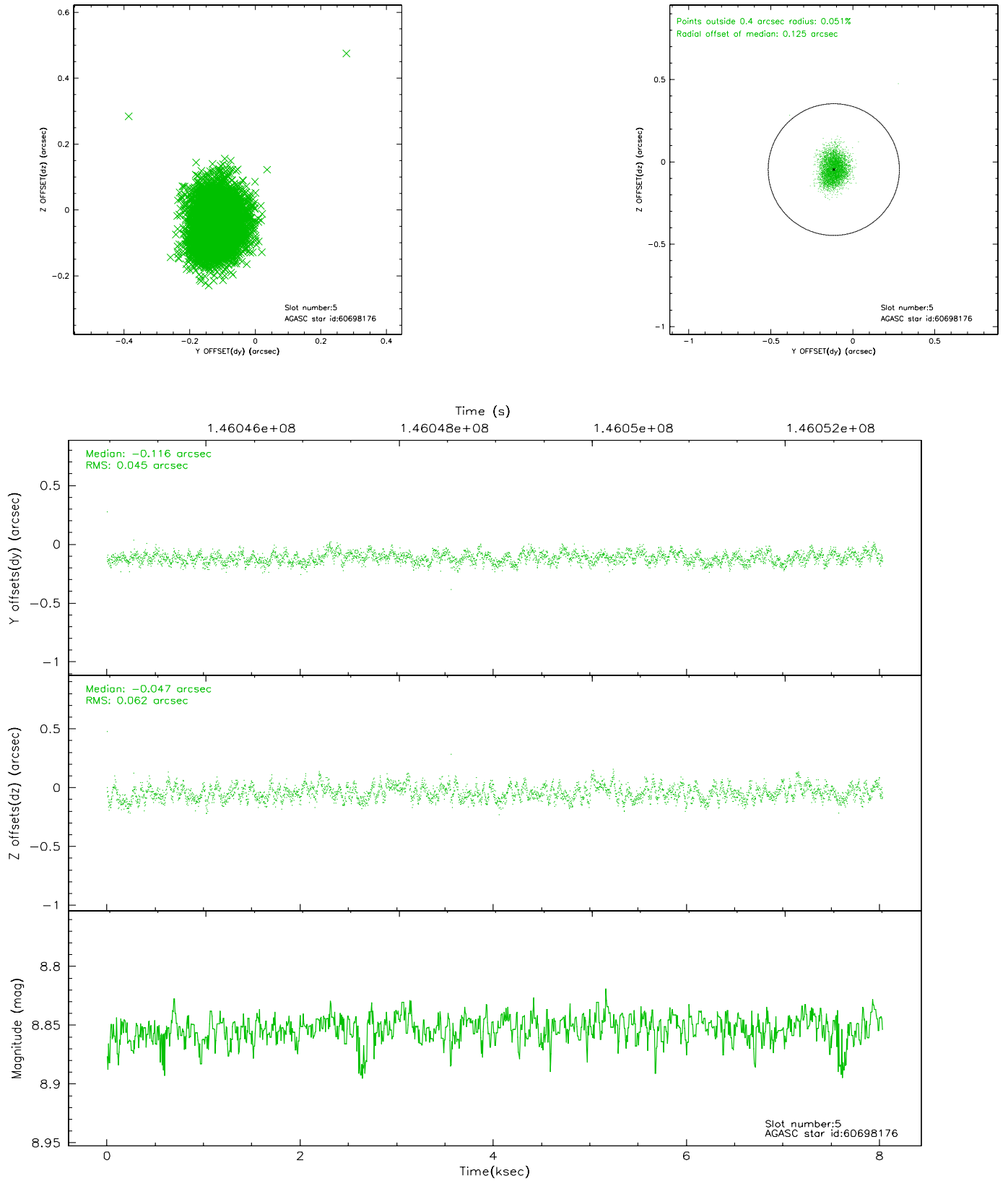
2.4.1 Slot 3



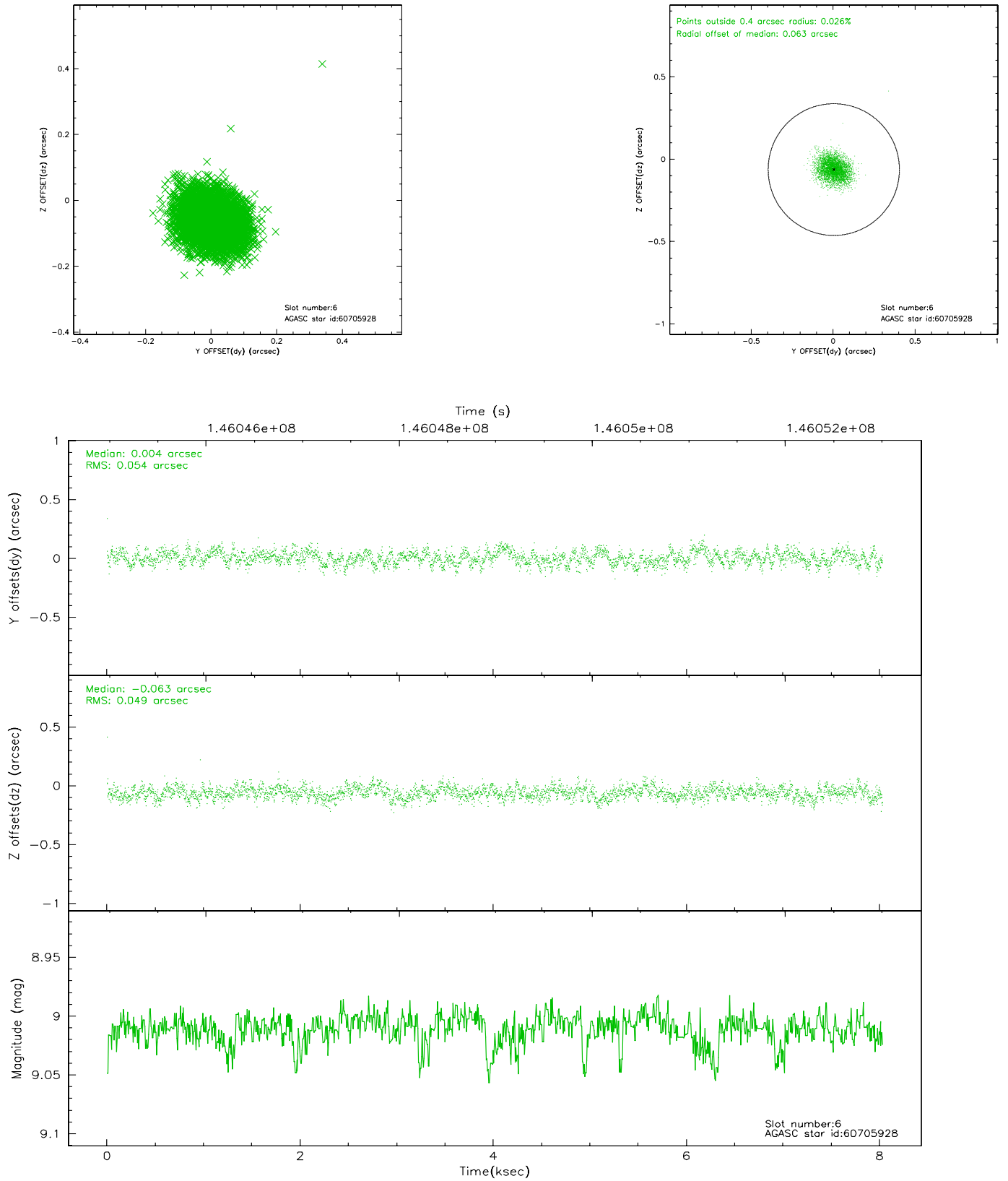
2.4.2 Slot 4



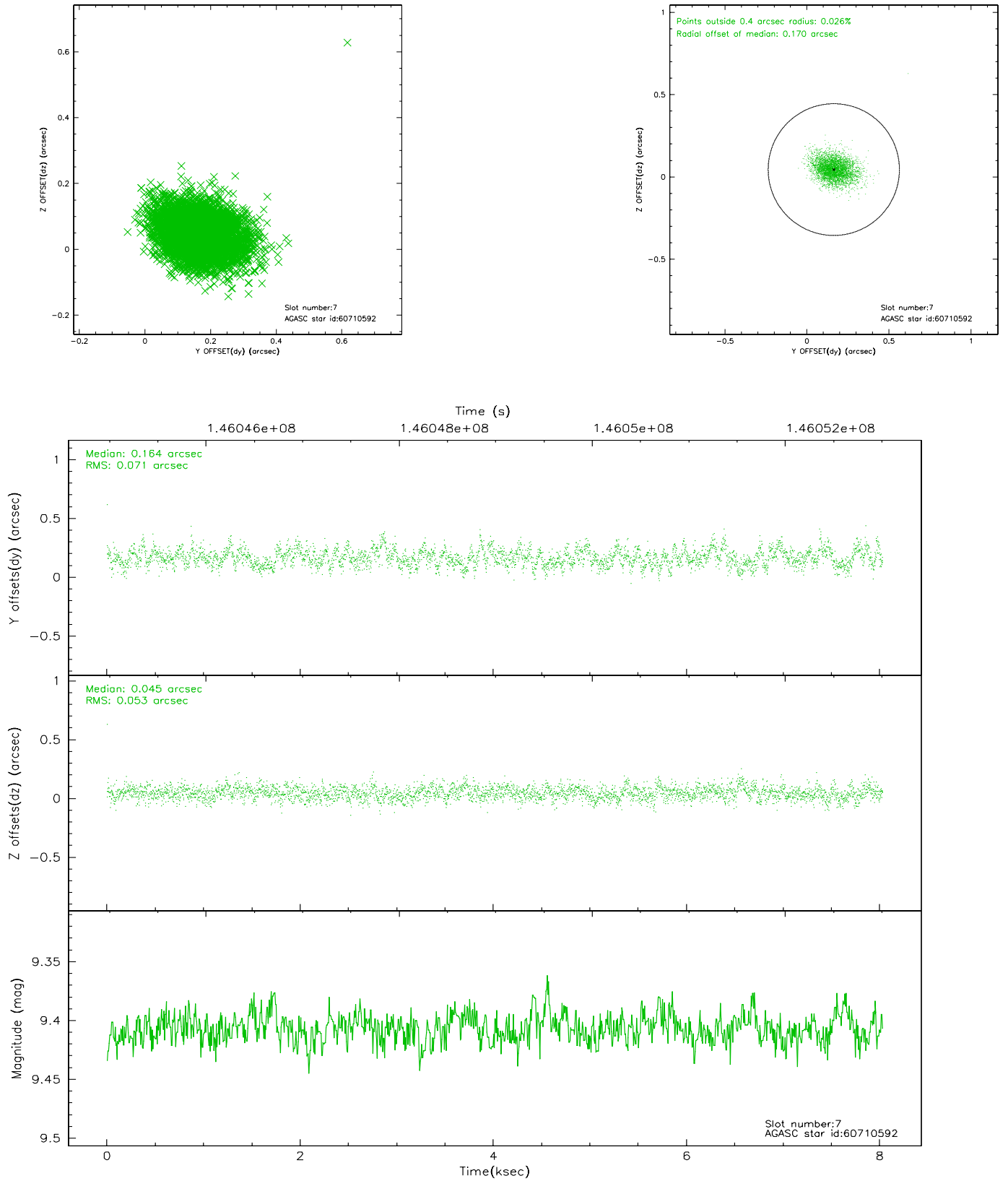
2.4.3 Slot 5



2.4.4 Slot 6

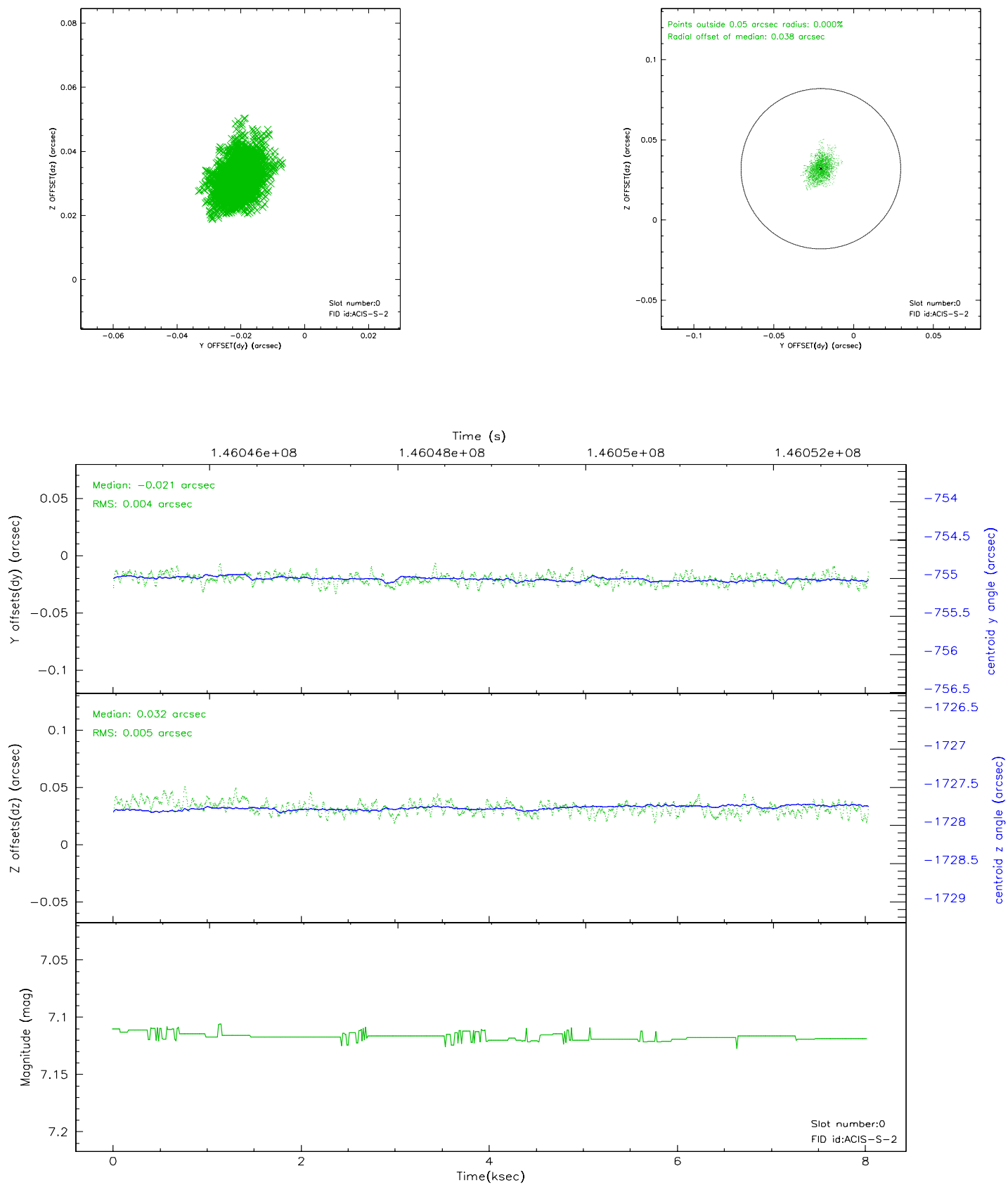


2.4.5 Slot 7

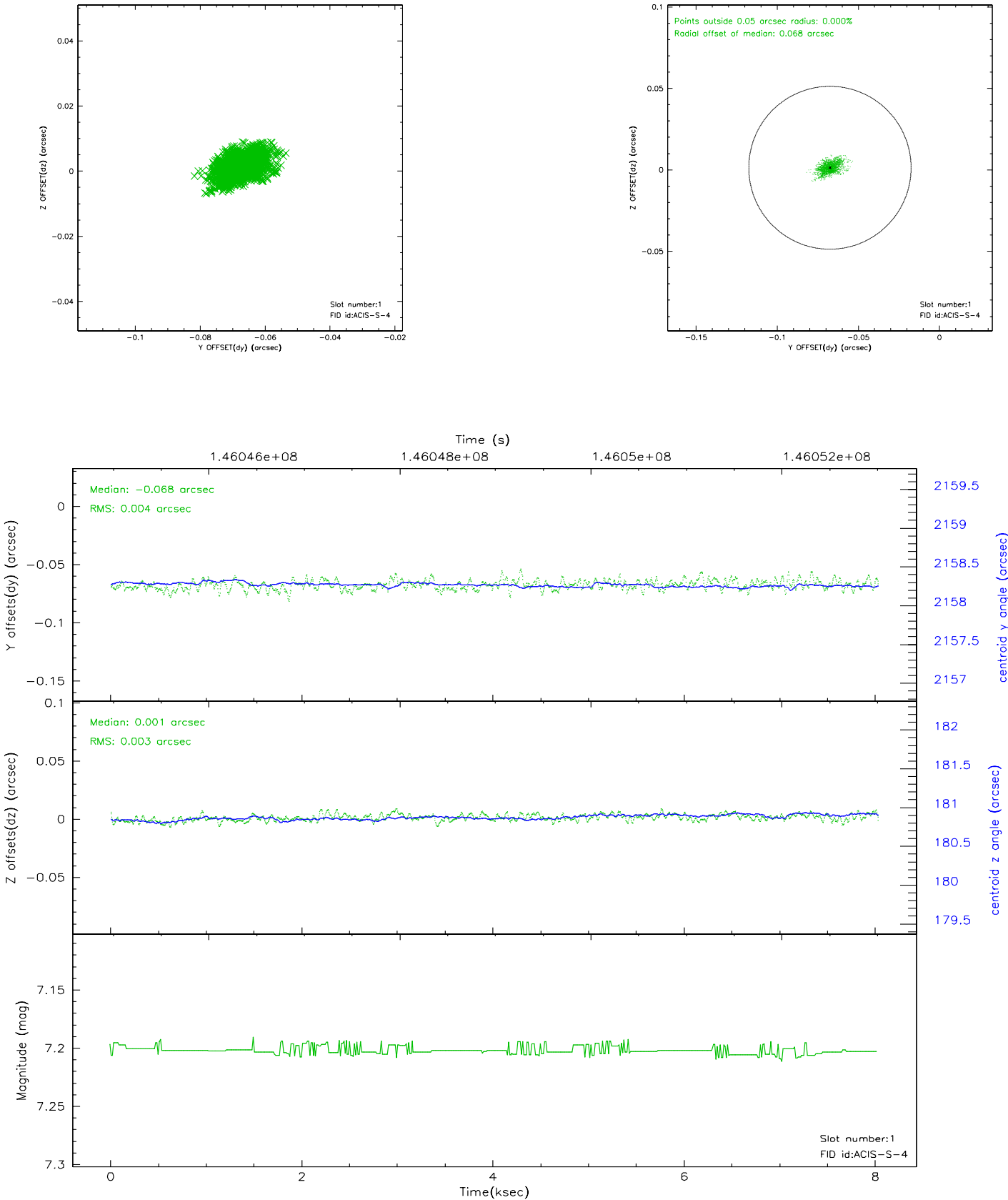


2.5 FID Slots

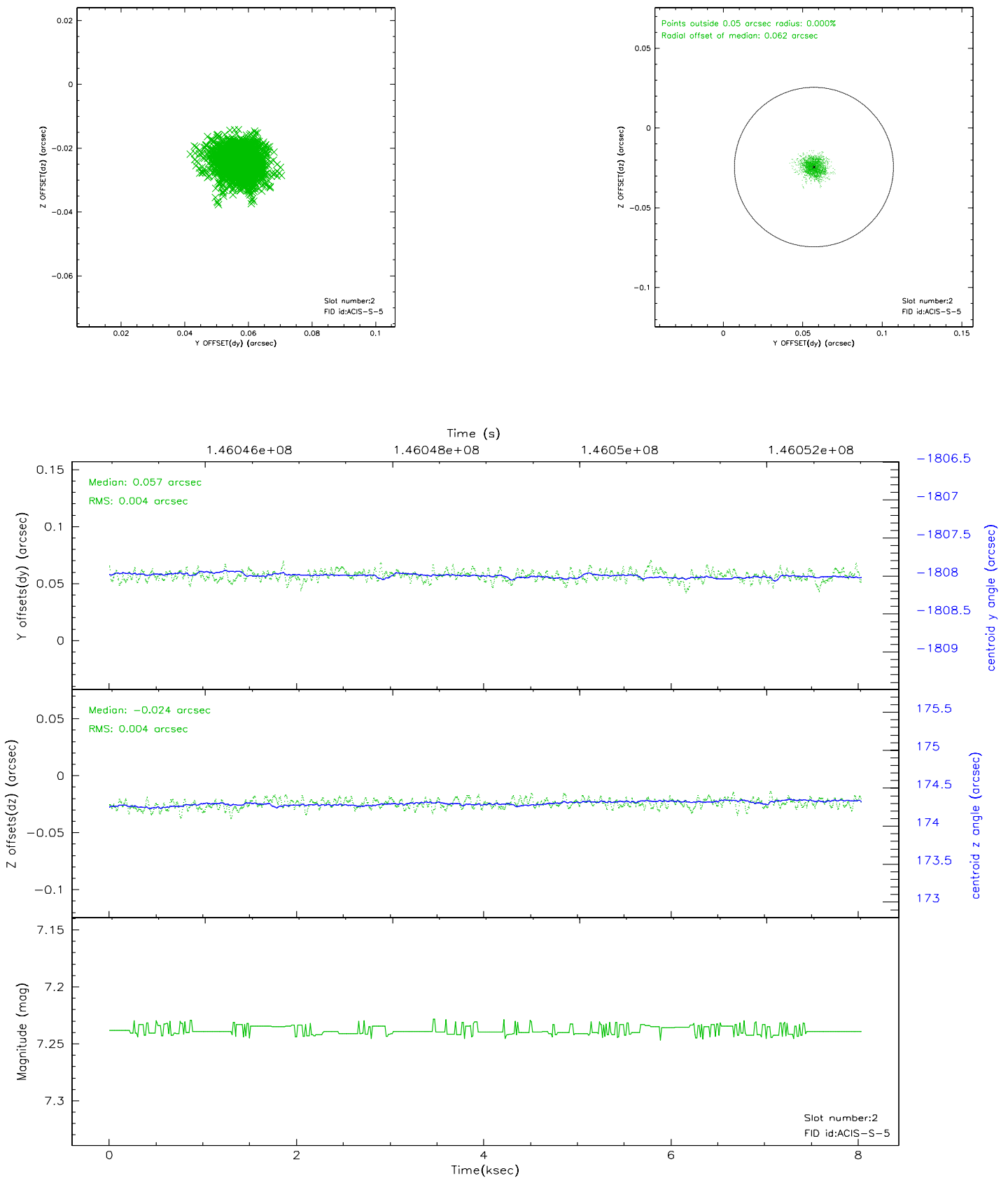
2.5.1 Slot 0



2.5.2 Slot 1

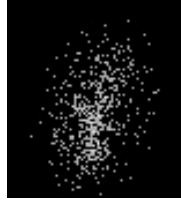


2.5.3 Slot 2



3 Point Sources

4.25 arcmin



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.858

A.2 Comments

Monitor constraint met.

Focal plane temperature is warmer than -118.7 C degrees during the first six ksec 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.