

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 4370 - L2 Version 001
Chandra X-Ray Center

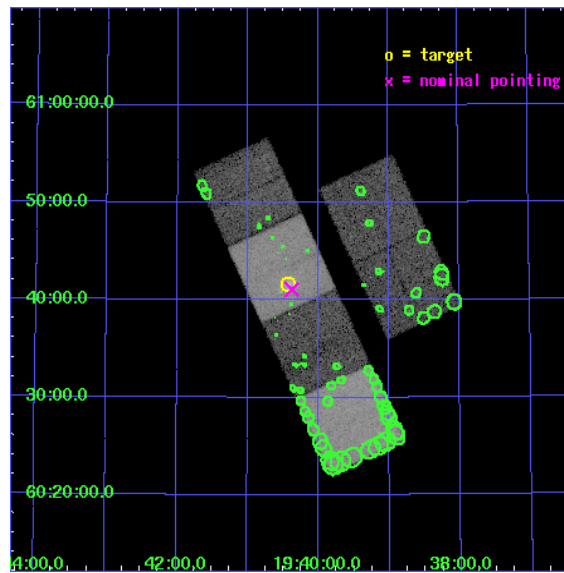
L2 Processing Date : Oct 4 2006

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

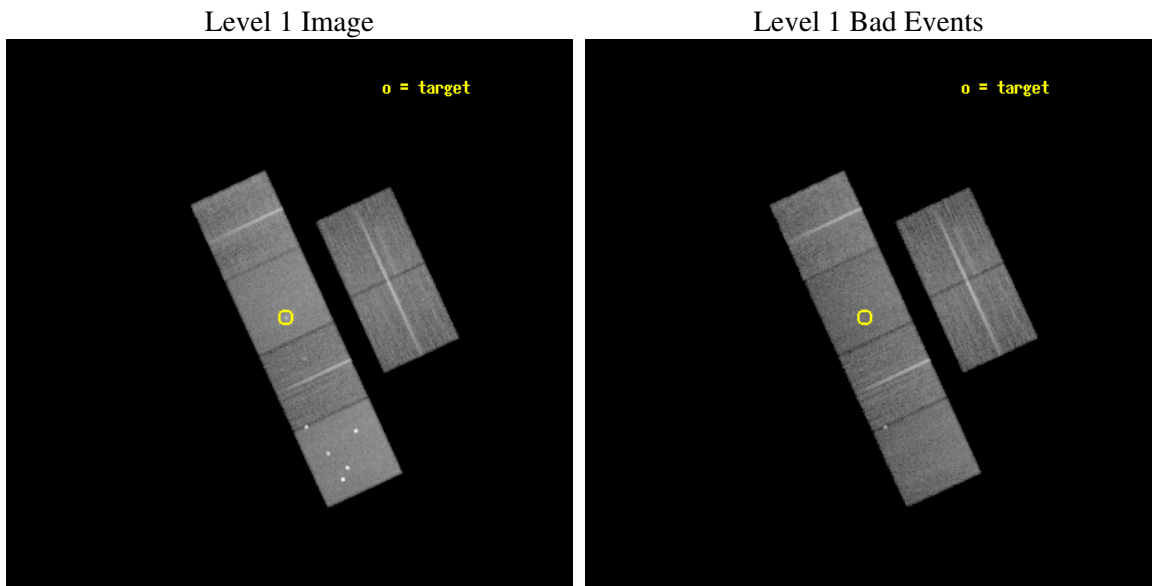
seq_num	700522
obs_id	4370
title	ACIS-S IMAGING-SPECTROSCOPY OF THREE INTERMEDIATE FRI/FRII RADIO GALAXIES
observer	Prof. Christopher Reynolds
object	3C401
dtcycle	0
cycle	P
ra_targ	295.104583
dec_targ	60.693056
ra_nom	295.09328873019
dec_nom	60.685113762356
roll_nom	245.26648340199
revision	2
ontime	25171.19990623
livetime	24852.46701674
ontime2	25171.19990623
ontime3	25171.19990623
ontime5	25167.958935946
ontime6	25171.19990623
ontime7	25171.19990623
ontime8	25171.19990623
l2events	236044



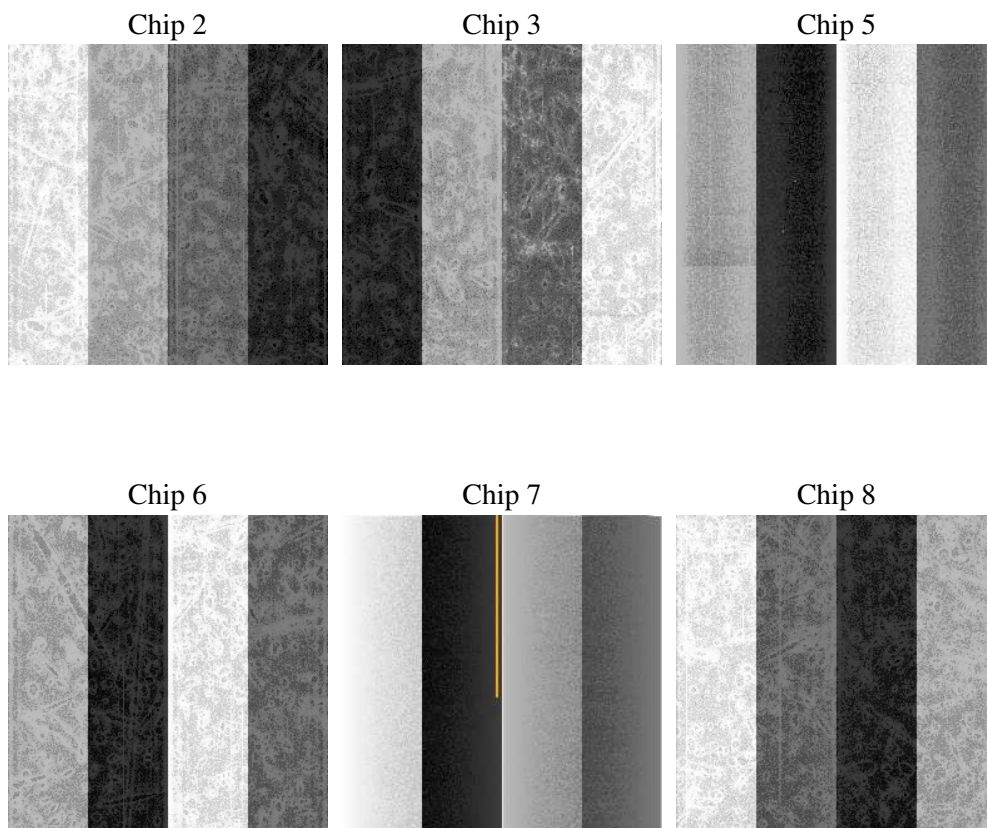
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-10-04T15:28:38
revision	2

sched_exp_time	25000.000000
ontime	25179.334932059
ontime2	25179.334902167
ontime3	25179.334932059
ontime5	25176.093961775
ontime6	25179.334902167
ontime7	25179.334932059
ontime8	25179.334902167
l1events	1117302

2.1.4 Events

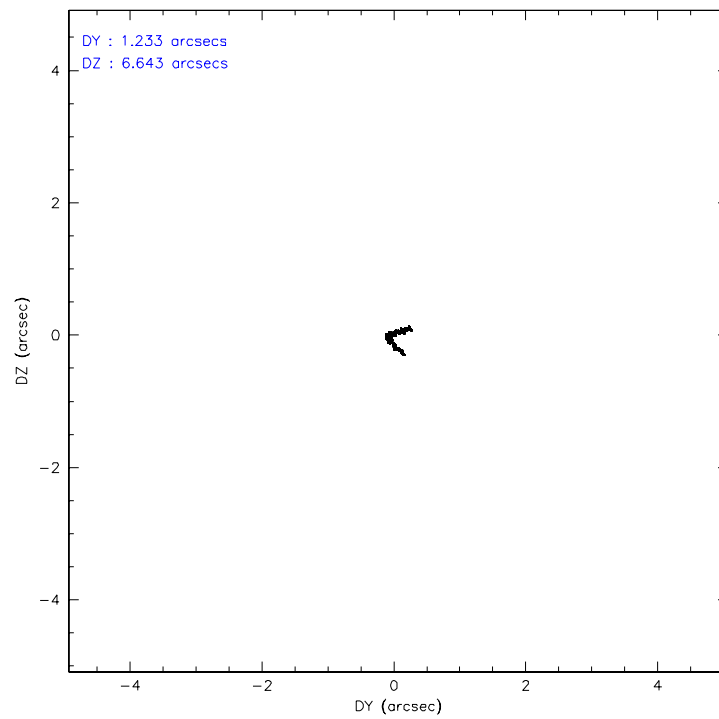
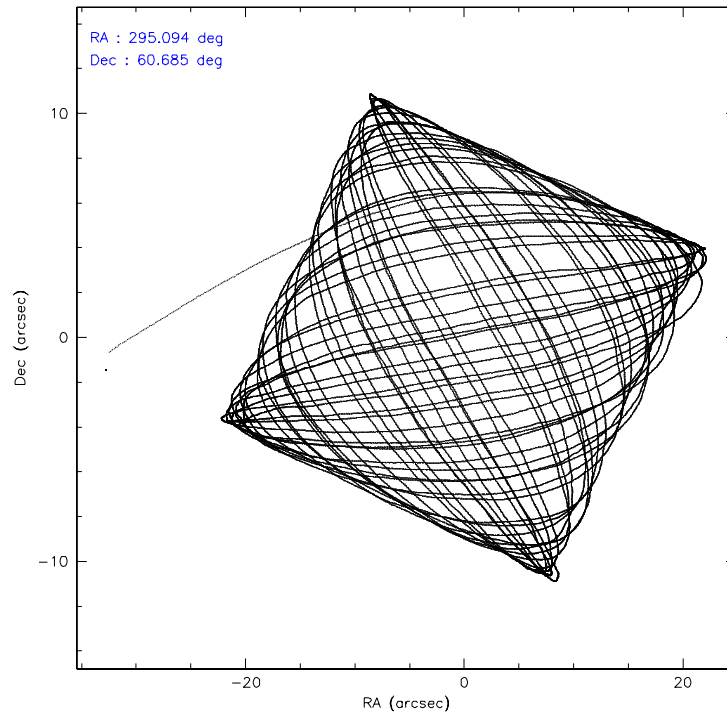
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	161362	151490	241297	158410	209131	195612
rejected events	143492	133850	126878	139829	127465	156849
rejected %	88%	88%	52%	88%	60%	80%

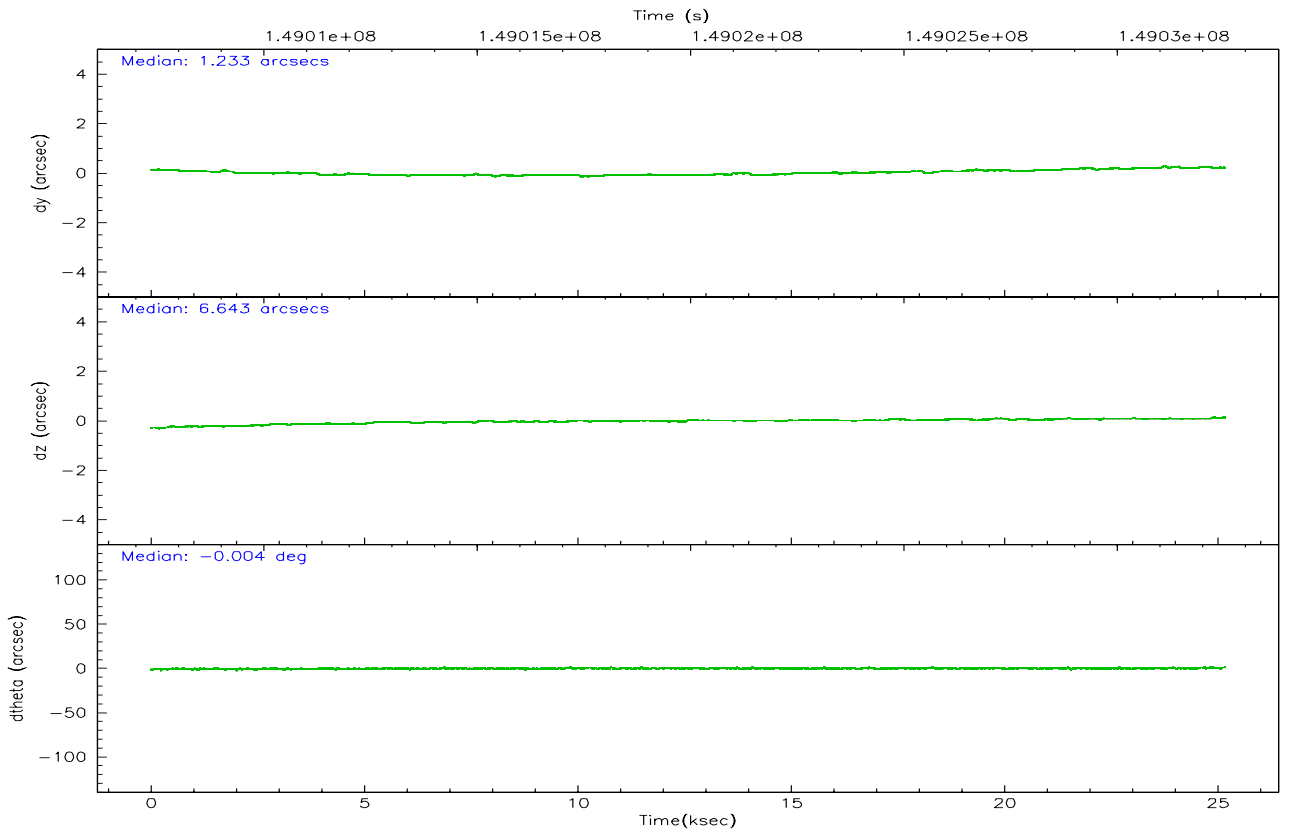
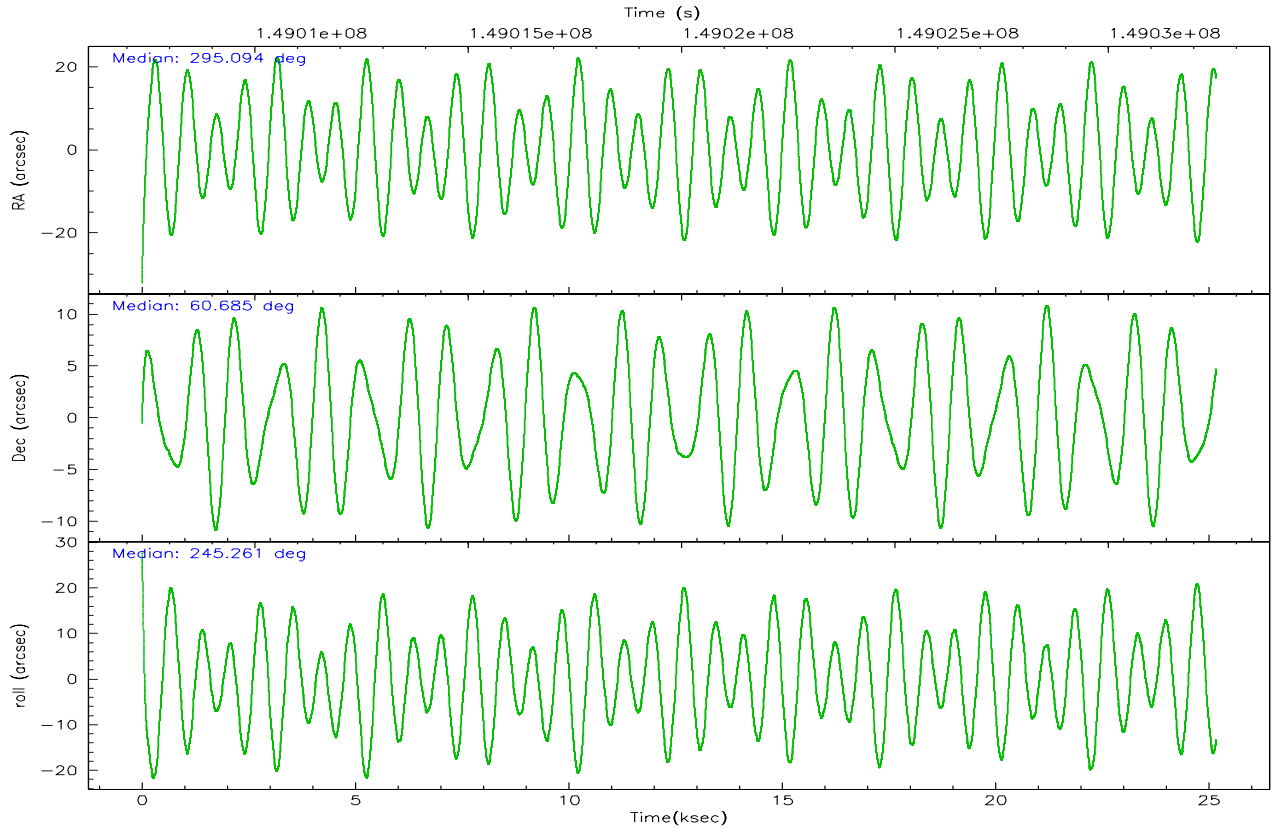
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7848	7732	19312	7467	5939	12324
	4%	5%	8%	4%	2%	6%
grade 1 events	101	87	629	80	115	107
	0%	0%	0%	0%	0%	0%
grade 2 events	3528	3323	34227	3770	20073	8358
	2%	2%	14%	2%	9%	4%
grade 3 events	1752	1691	2264	1895	4360	4075
	1%	1%	0%	1%	2%	2%
grade 4 events	1748	1782	2083	1810	4332	3794
	1%	1%	0%	1%	2%	1%
grade 5 events	5889	6333	10835	6741	13373	9066
	3%	4%	4%	4%	6%	4%
grade 6 events	2997	3113	56562	3644	46985	10218
	1%	2%	23%	2%	22%	5%
grade 7 events	137499	127429	115385	133003	113954	147670
	85%	84%	47%	83%	54%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	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	295.087436	295.0932887301864	Subarray requested	NONE	NONE
Pointing Dec	60.712207	60.68511376235565	Alternating exposures requested	N	N
Pointing Roll	245.114952	245.2664834019945	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	149007529.184000	149006461.75293			
Observation start date	2002-09-21T14:57:45	2002-09-21T14:41:01			
Observation end time	149032529.184000	149033142.50403			
Observation end date	2002-09-21T21:54:25	2002-09-21T22:05:42			
Read mode	TIMED	TIMED			

2.3 Aspect



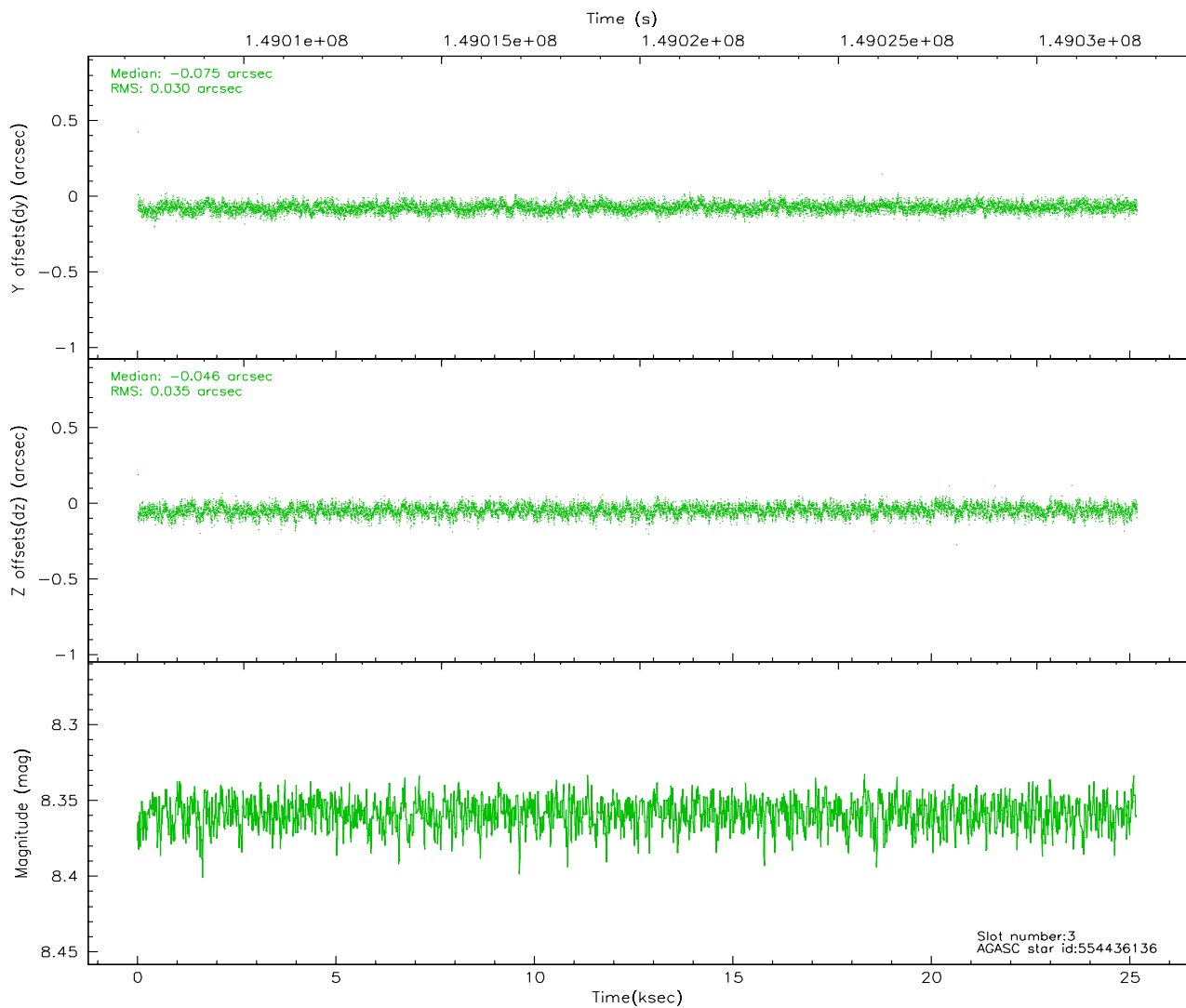
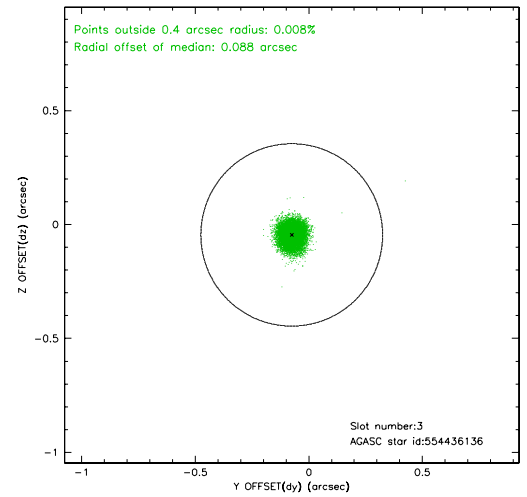
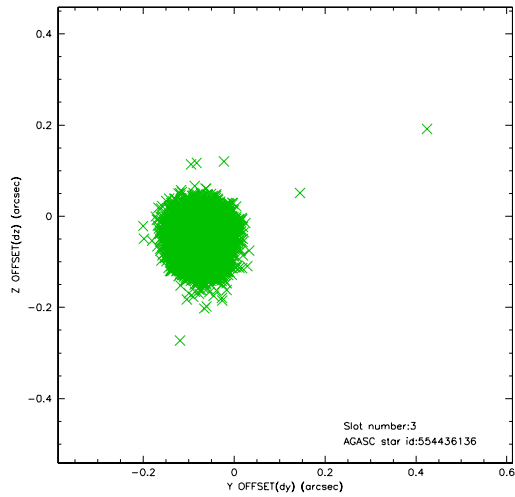


Slot Statistics

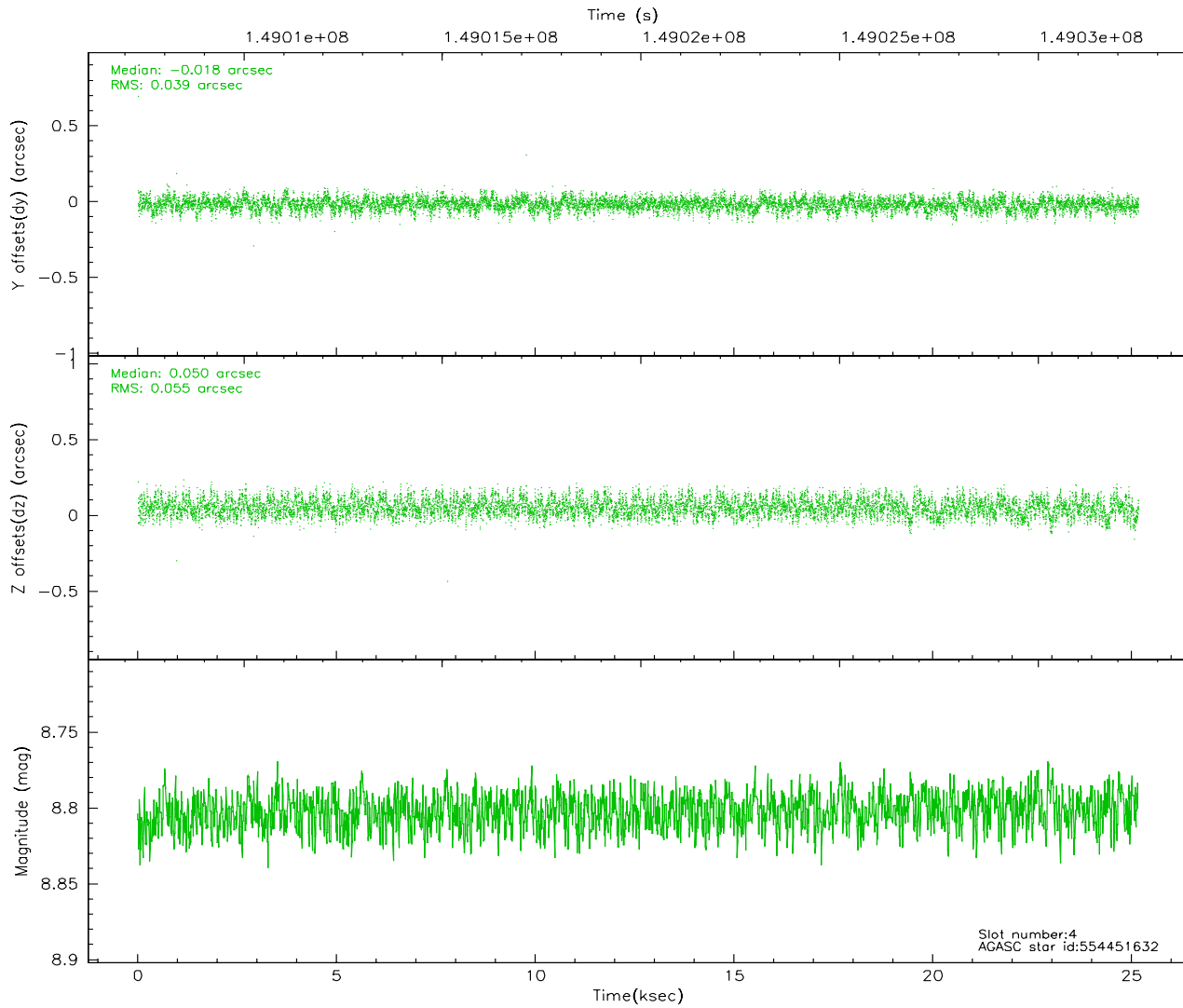
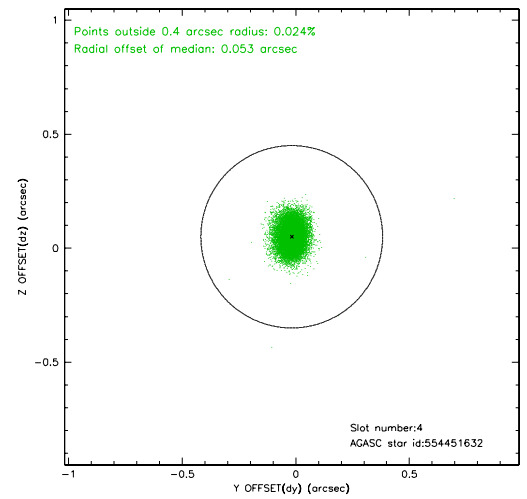
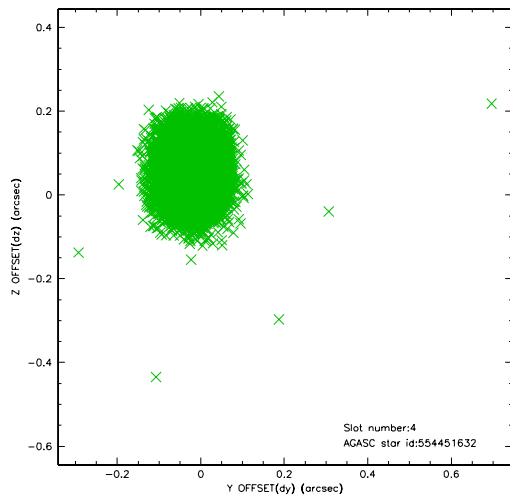
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	6140	0.009	0.042	0.008	0.013	0.000000	0.000000	-753.84	-1727.74
1	FID	ACIS-S-3	7.36	6141	-0.042	-0.080	0.008	0.013	0.000000	0.000000	59.19	-1857.20
2	FID	ACIS-S-4	7.20	6140	0.006	0.041	0.005	0.009	0.000000	0.000000	2159.51	180.61
3	GUIDE	554436136	8.36	12279	-0.075	-0.046	0.049	0.078	295.312888	60.232943	1396.02	1091.44
4	GUIDE	554451632	8.80	12278	-0.018	0.050	0.072	0.116	294.210908	61.288730	-1252.65	-2252.67
5	GUIDE	554448992	8.67	12279	-0.020	0.002	0.059	0.096	295.034810	61.081791	-1167.31	-643.21
6	GUIDE	554446792	8.82	12282	0.037	-0.033	0.077	0.125	295.560016	60.563175	133.21	982.99
7	GUIDE	554448584	9.49	12260	0.076	0.026	0.096	0.152	293.991372	60.316559	2100.86	-1179.67

2.4 Star Slots

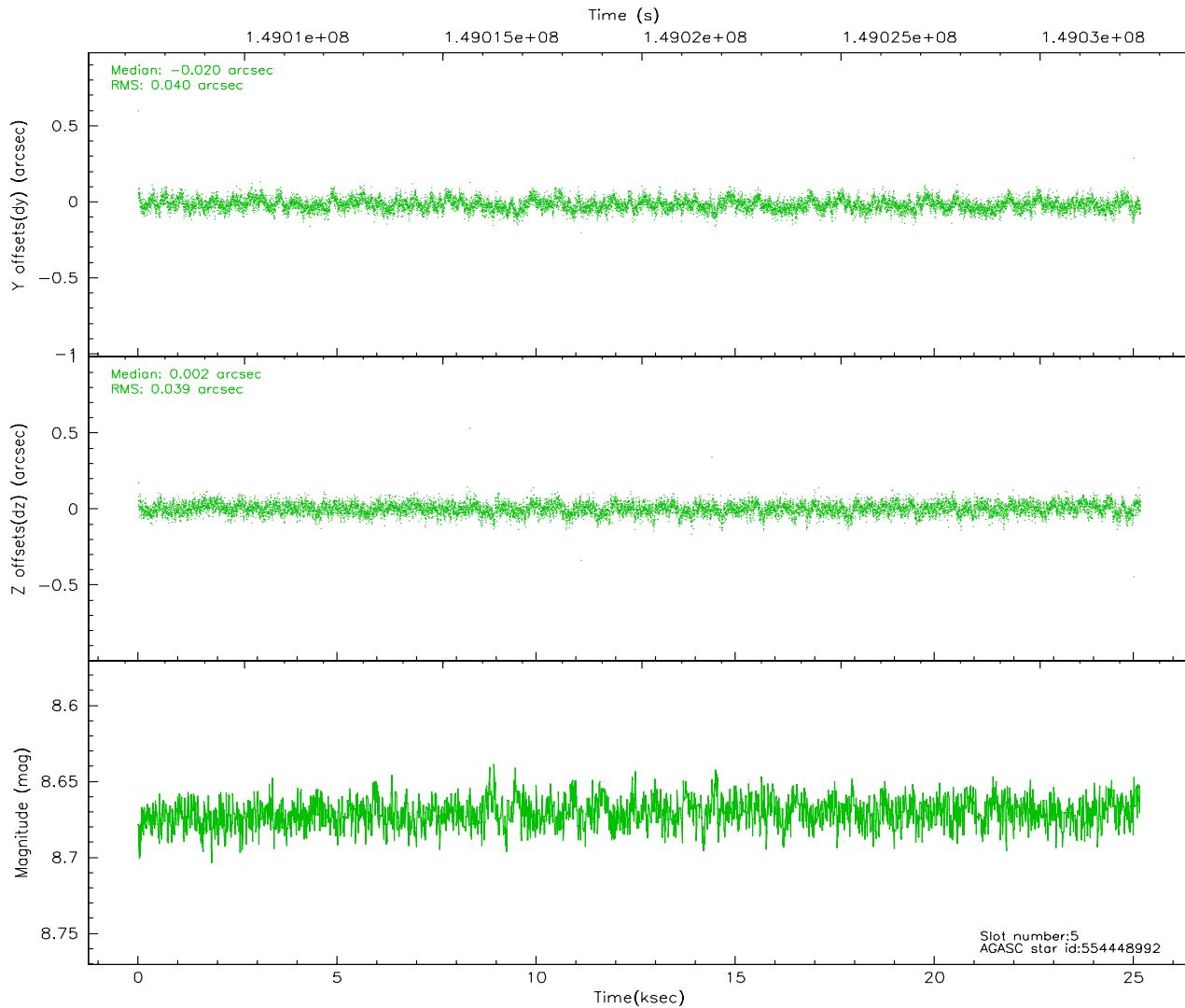
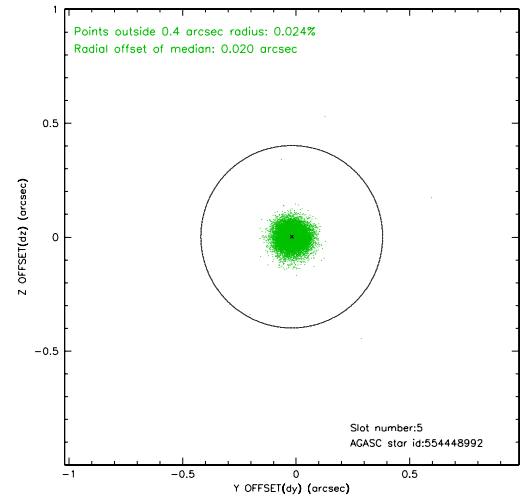
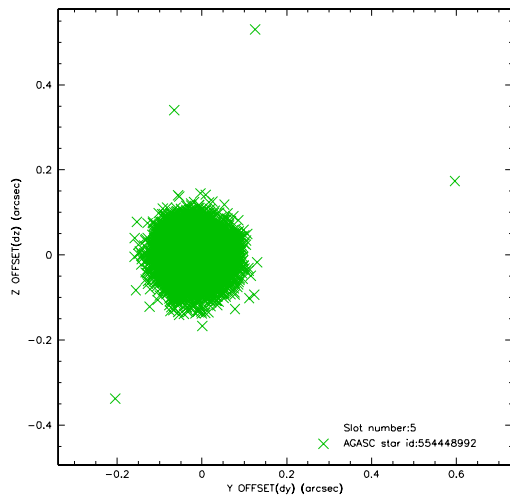
2.4.1 Slot 3



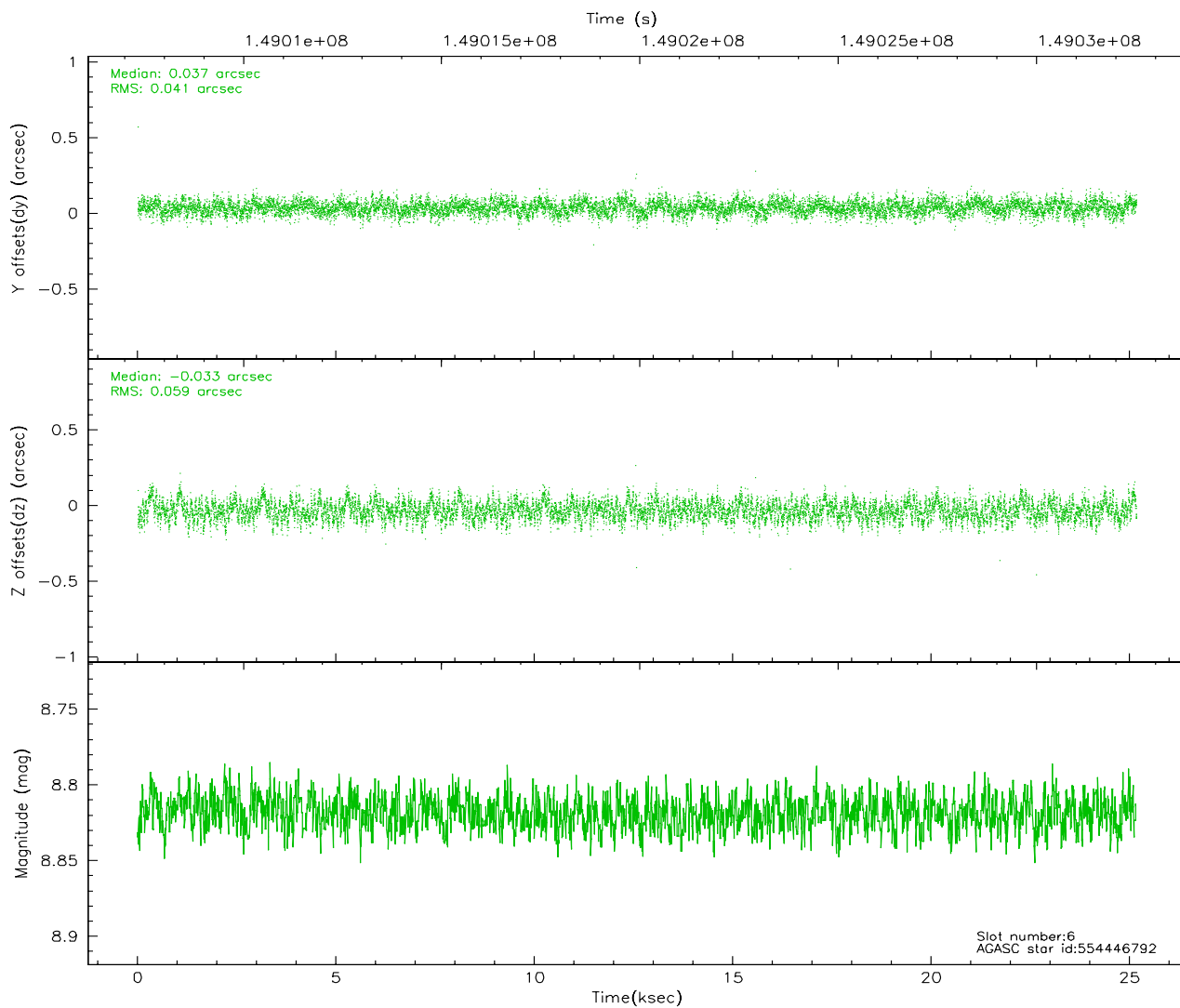
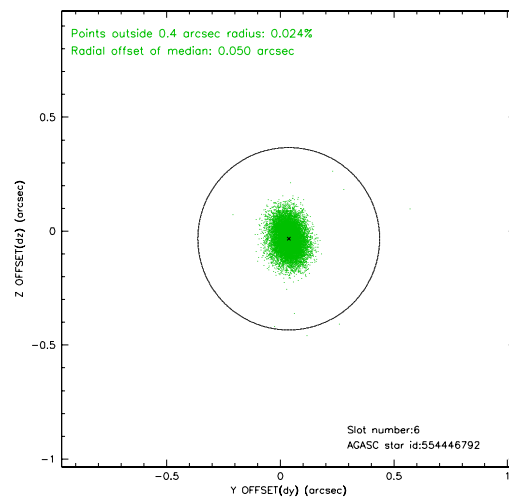
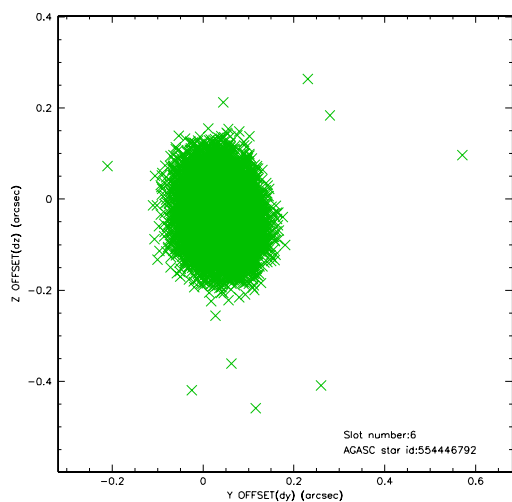
2.4.2 Slot 4



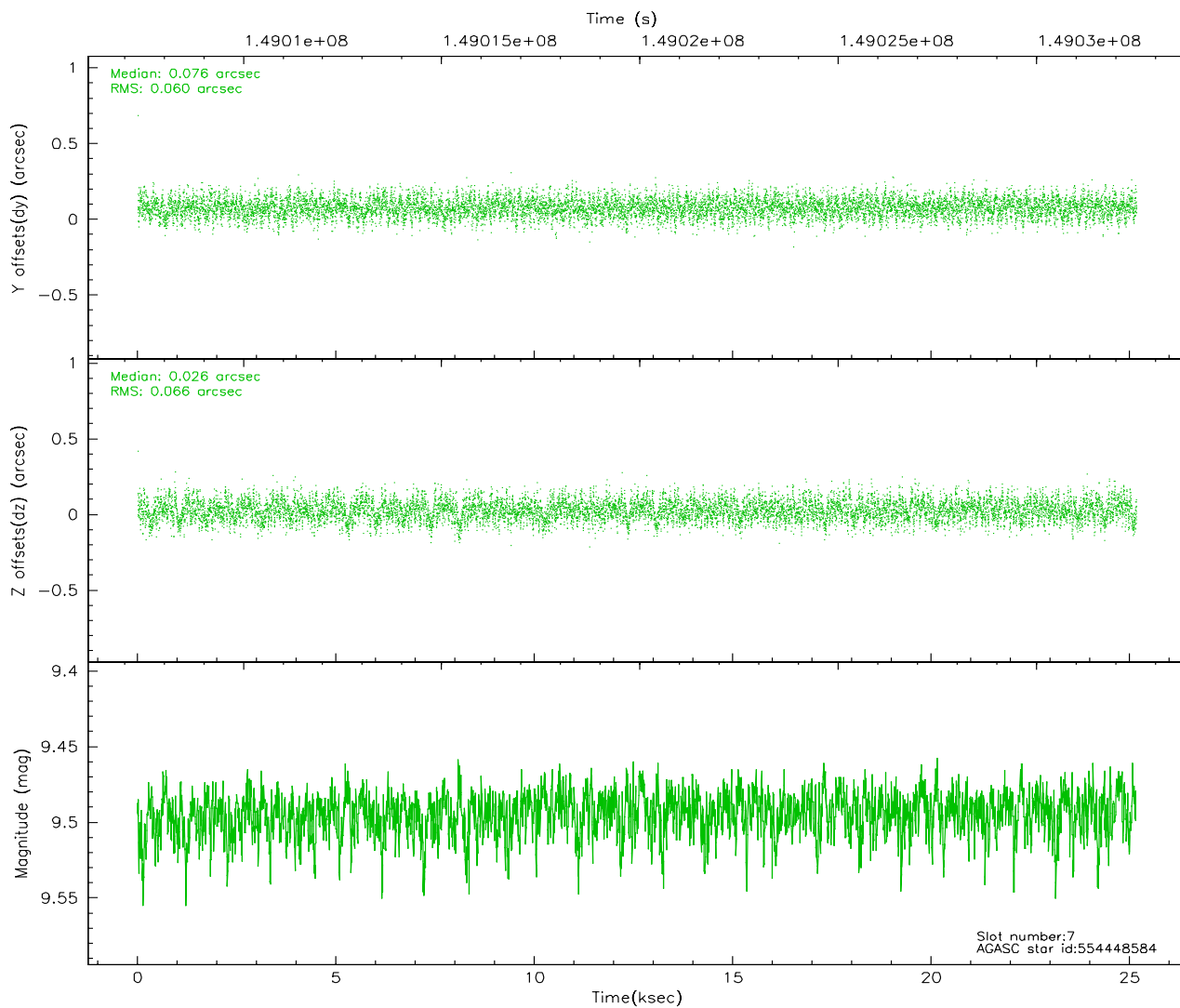
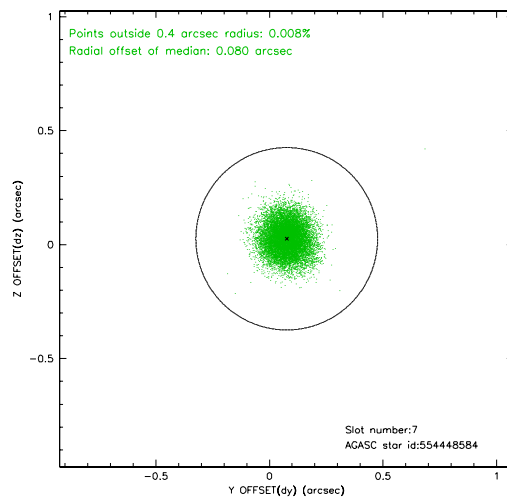
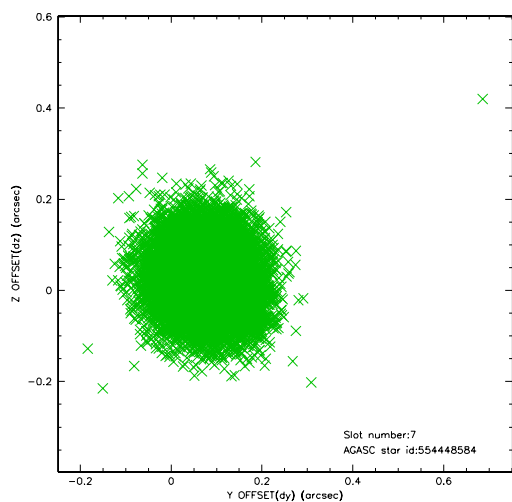
2.4.3 Slot 5



2.4.4 Slot 6

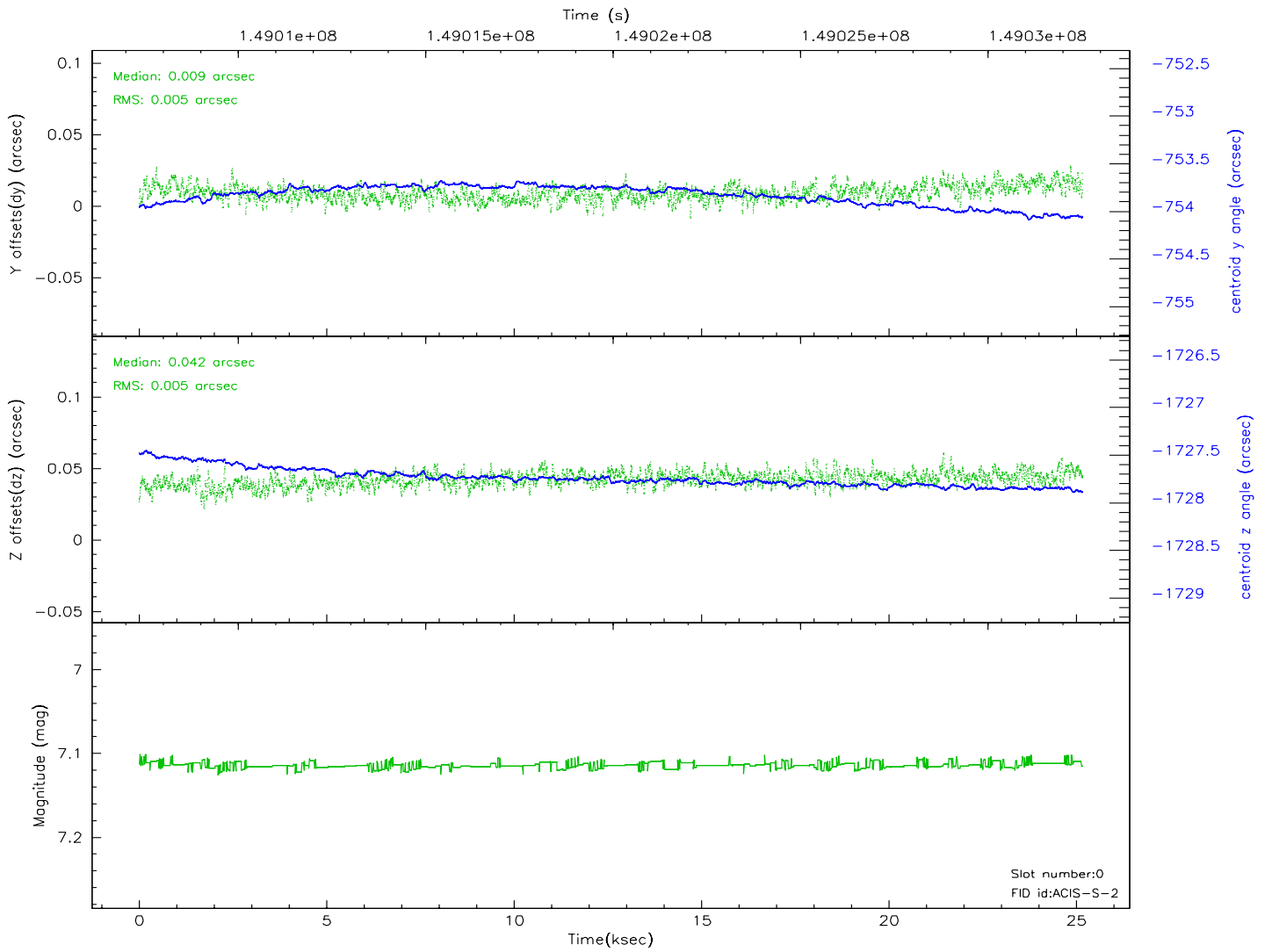
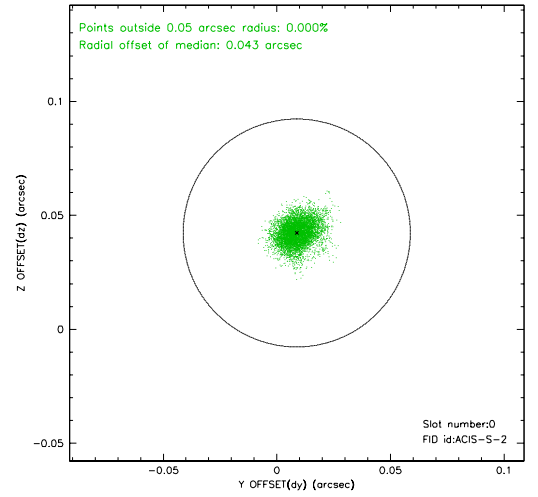
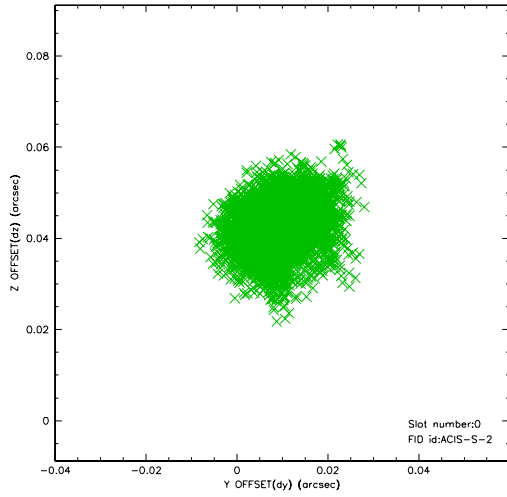


2.4.5 Slot 7

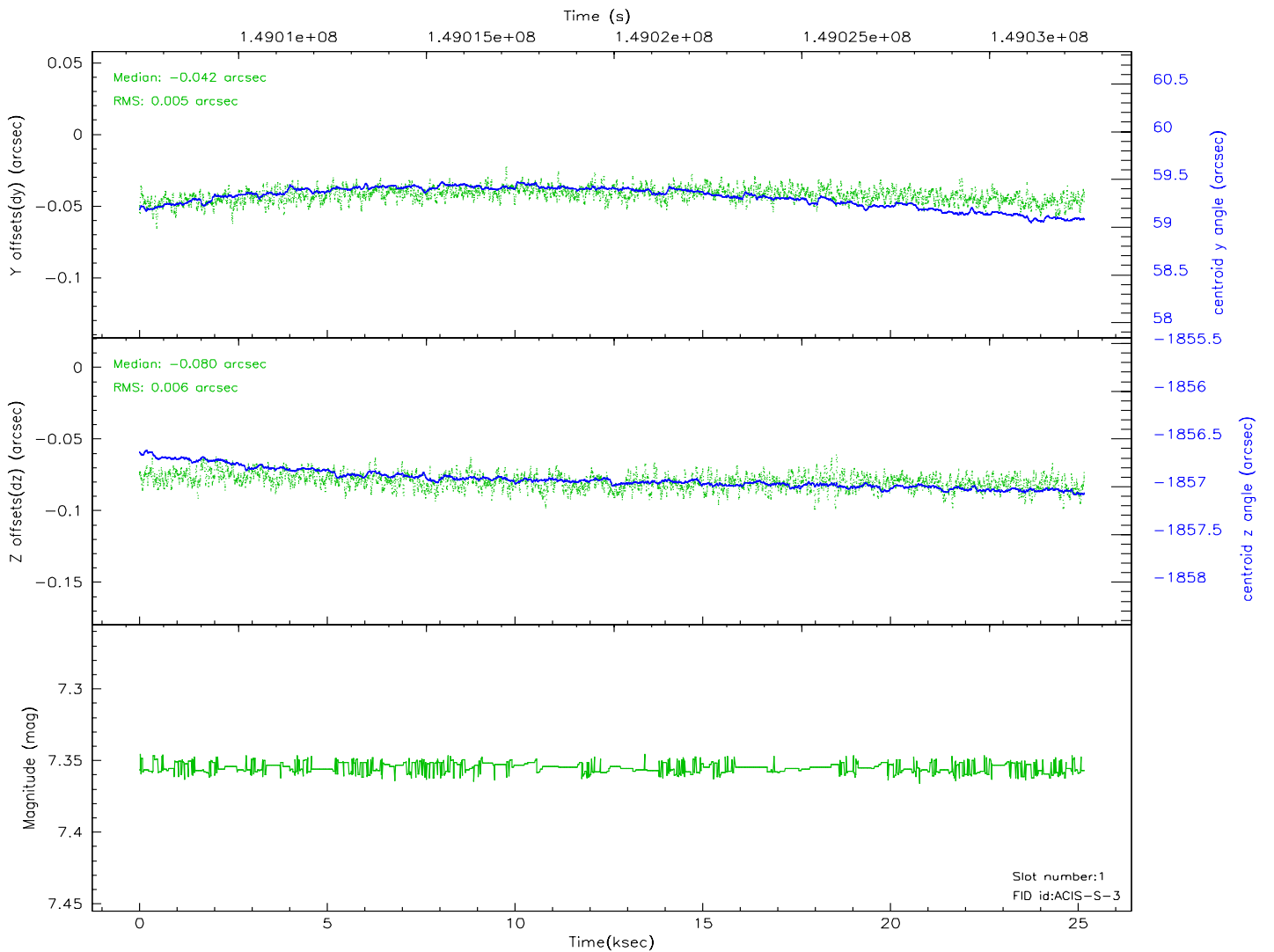
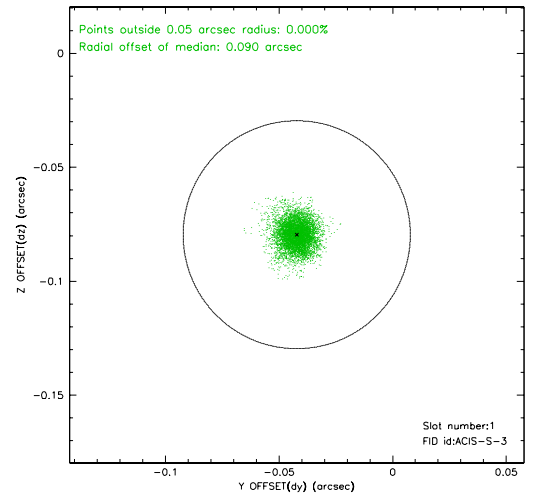
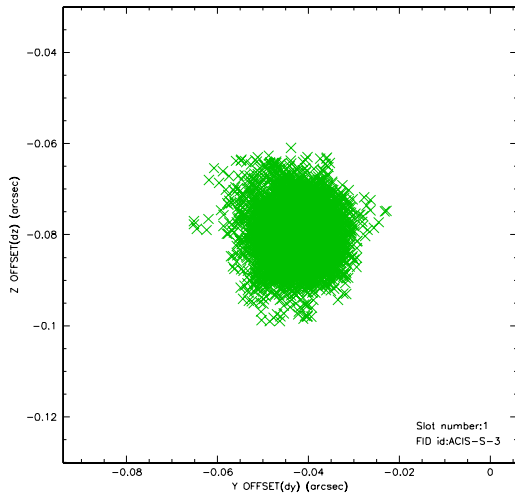


2.5 FID Slots

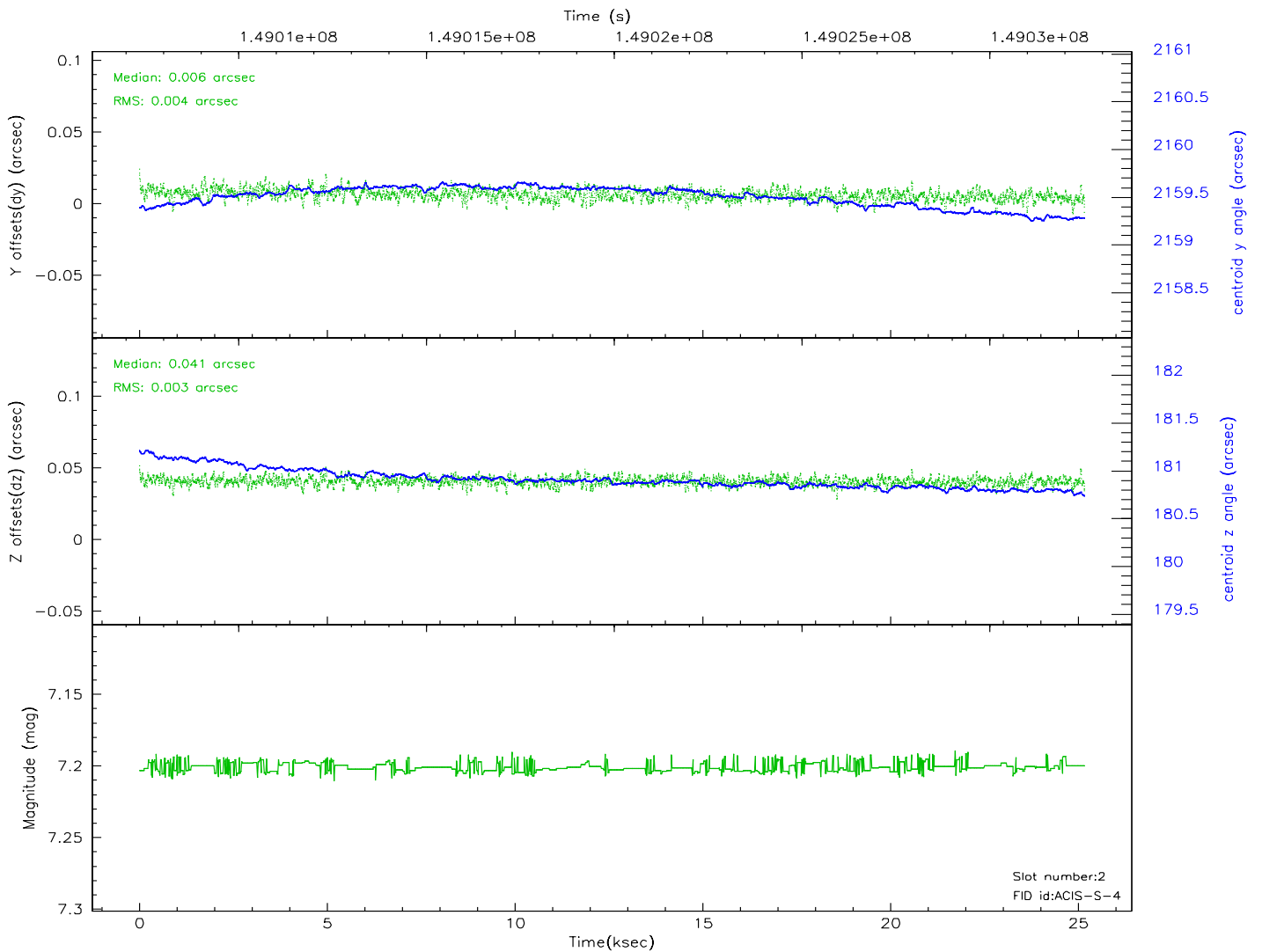
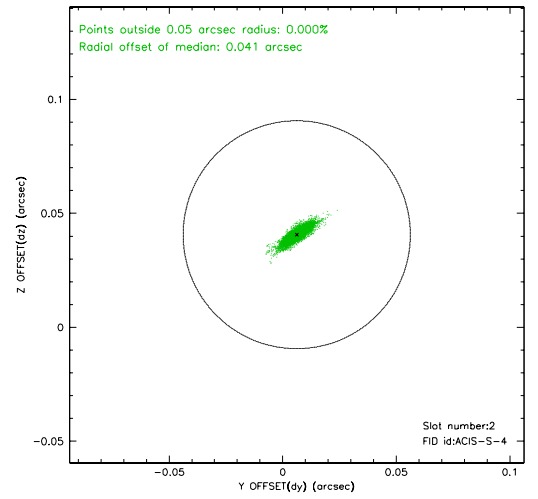
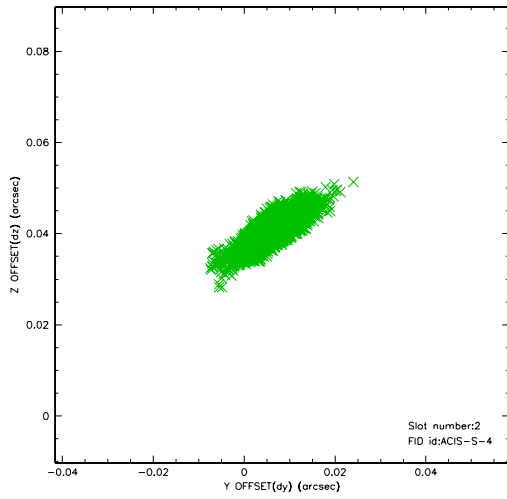
2.5.1 Slot 0



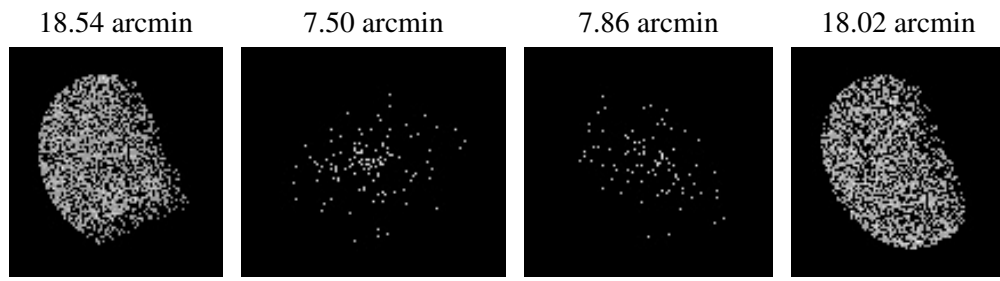
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.171

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the first 19 ksec of this 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.