

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 16086 - L2 Version 2
Chandra X-Ray Center

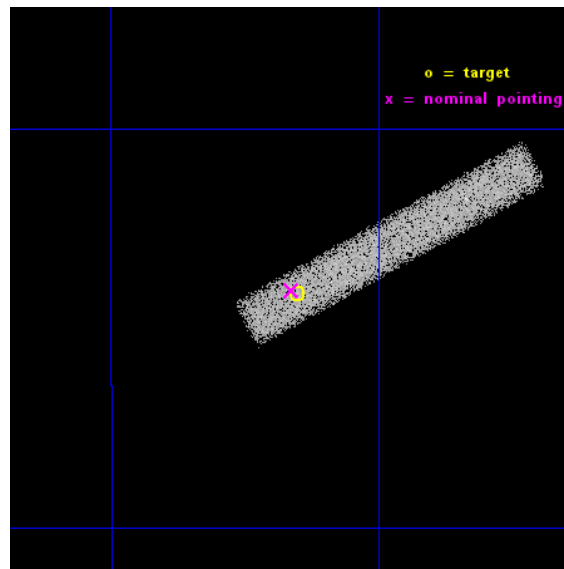
L2 Processing Date : Dec 8 2014

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

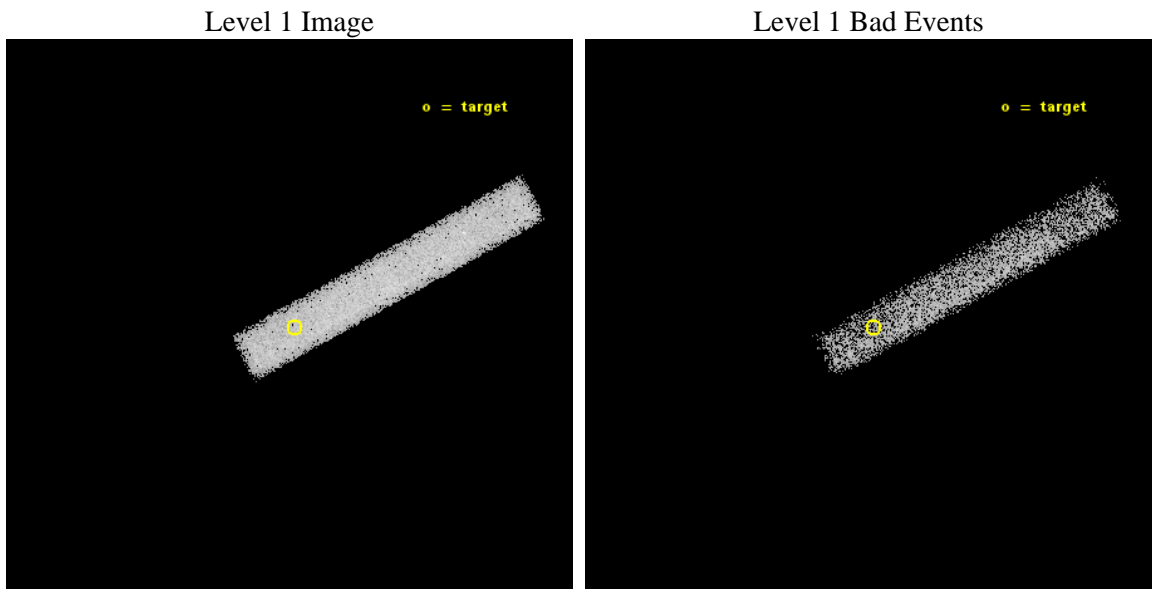
seq_num	702976	Sequence number
obs_id	16086	Observation id
title	The mystery of NGC 1377 -- AGN feedback in a low mass galaxy?	Prop
observer	Anne Lohfink	Principal investigator
object	NGC 1377	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	54.162917	Observer's specified target RA [deg]
dec_targ	-20.90225	Observer's specified target Dec [deg]
ra_nom	54.165745049011	Nominal RA [deg]
dec_nom	-20.900773461261	Nominal Dec [deg]
roll_nom	331.7870159869	Nominal Roll [deg]
revision	2	Processing version of data
ontime	48557.997105718	Sum of GTIs [s]
lifetime	44039.540273642	Lifetime [s]
ontime7	48557.997105718	Sum of GTIs [s]
l2events	19685	Number of level 2 events



2 OBI

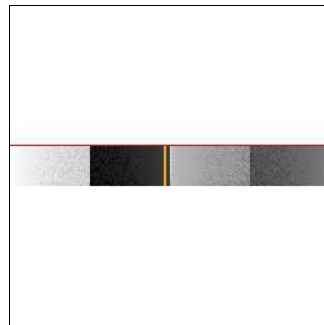
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	48487.650000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	48557.997105718	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	48557.997105718	Sum of GTIs [s]
date	2014-12-08T07:44:57	Date and time of file creation	l1events	41940	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

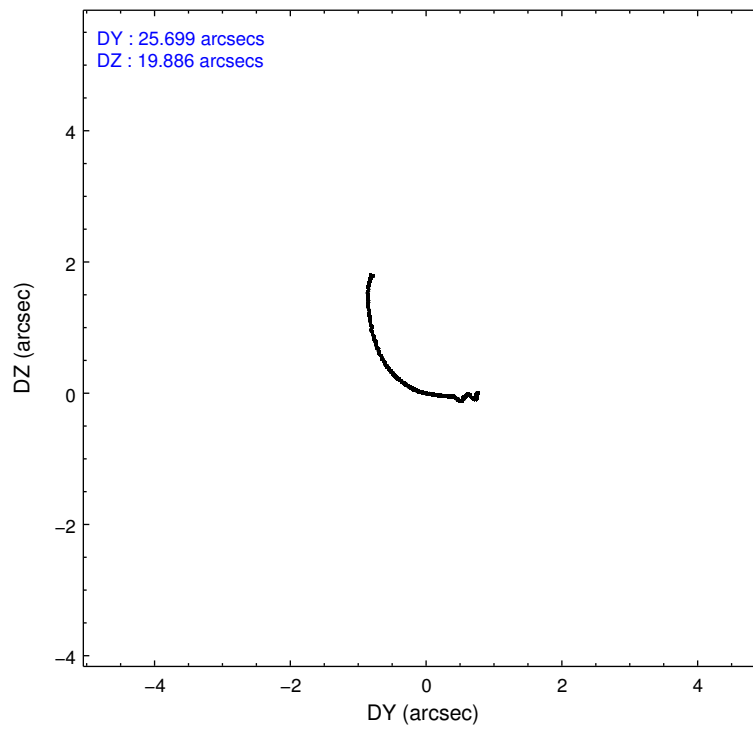
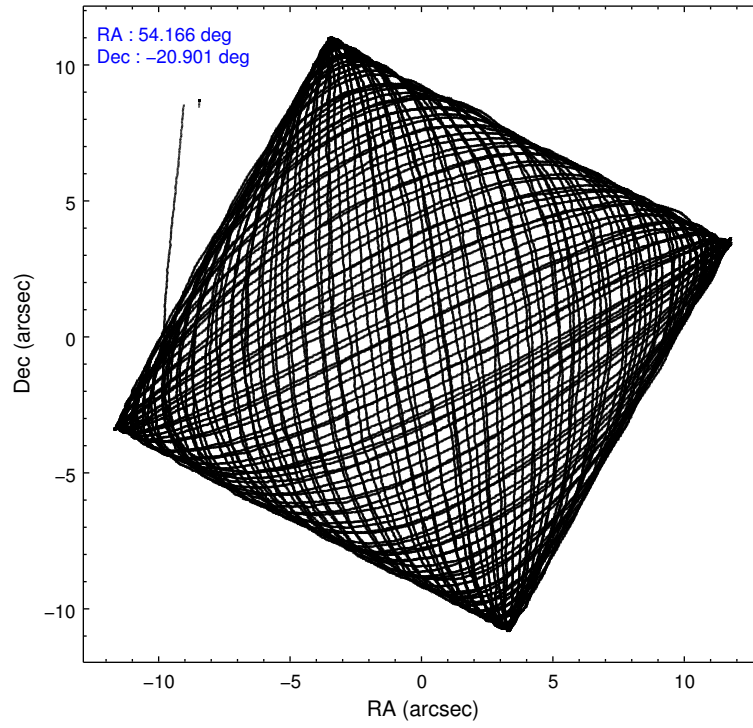
	ccd 7
level 1 events	41940
rejected events	21382
rejected %	50%

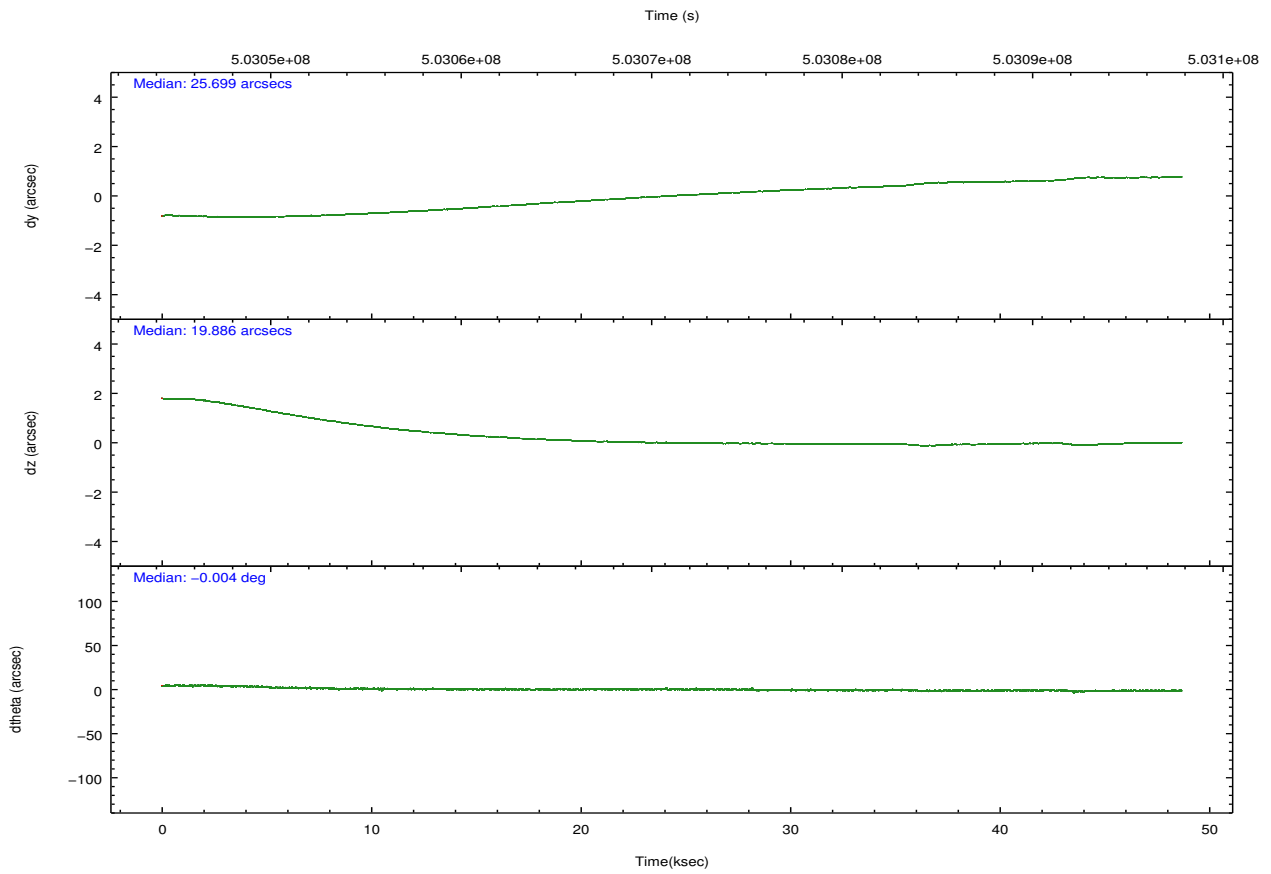
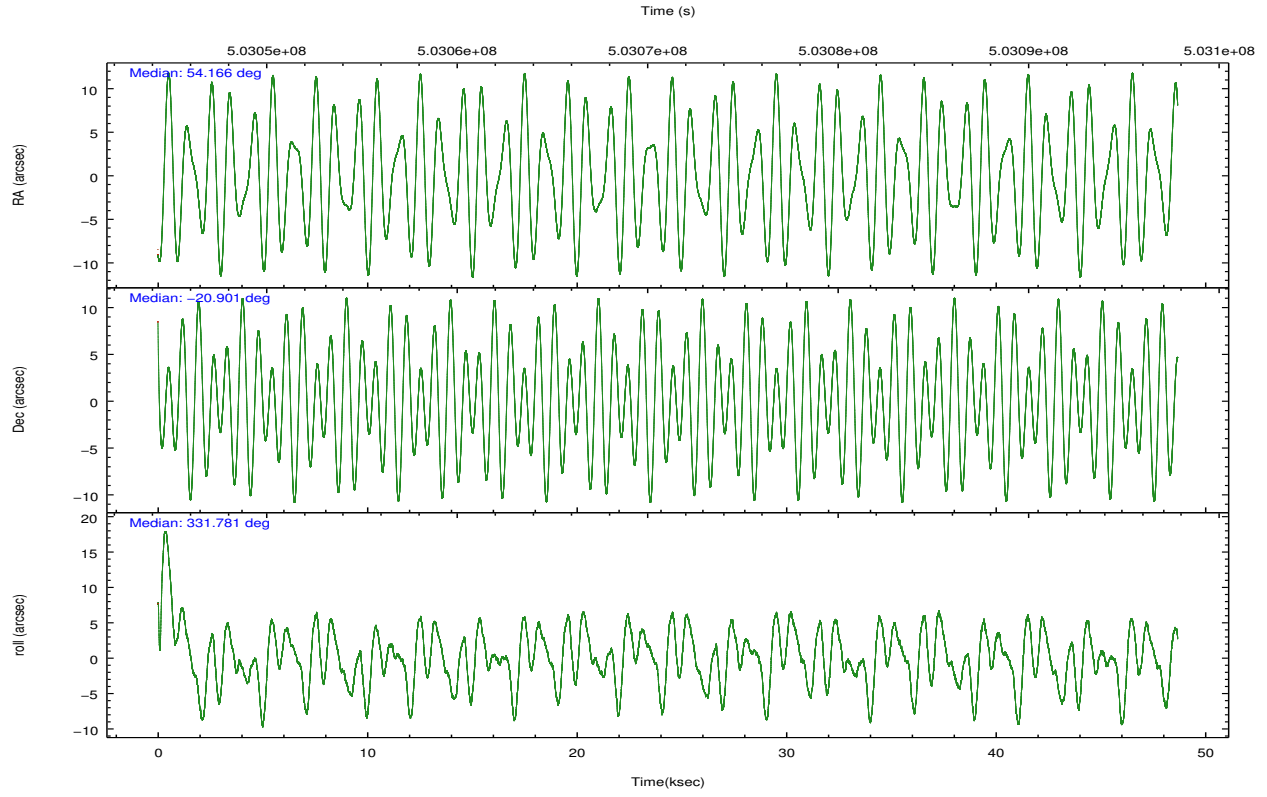
	ccd 7
grade 0 events	2125
	5%
grade 1 events	57
	0%
grade 2 events	3943
	9%
grade 3 events	2728
	6%
grade 4 events	2550
	6%
grade 5 events	4333
	10%
grade 6 events	9212
	21%
grade 7 events	16992
	40%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	54.136503	54.16574504901089	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-20.901991	-20.90077346126102	Subarray start row	449	449
[deg] Pointing Roll	331.619957	331.7870159869009	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	503046895.184000	503045863.10352			
Observation start date	2013-12-10T07:13:48	2013-12-10T06:57:43			
[s] Observation end time (MET)	503095382.184000	503095611.48127			
Observation end date	2013-12-10T20:41:55	2013-12-10T20:46:51			
Read mode	TIMED	TIMED			

2.3 Aspect



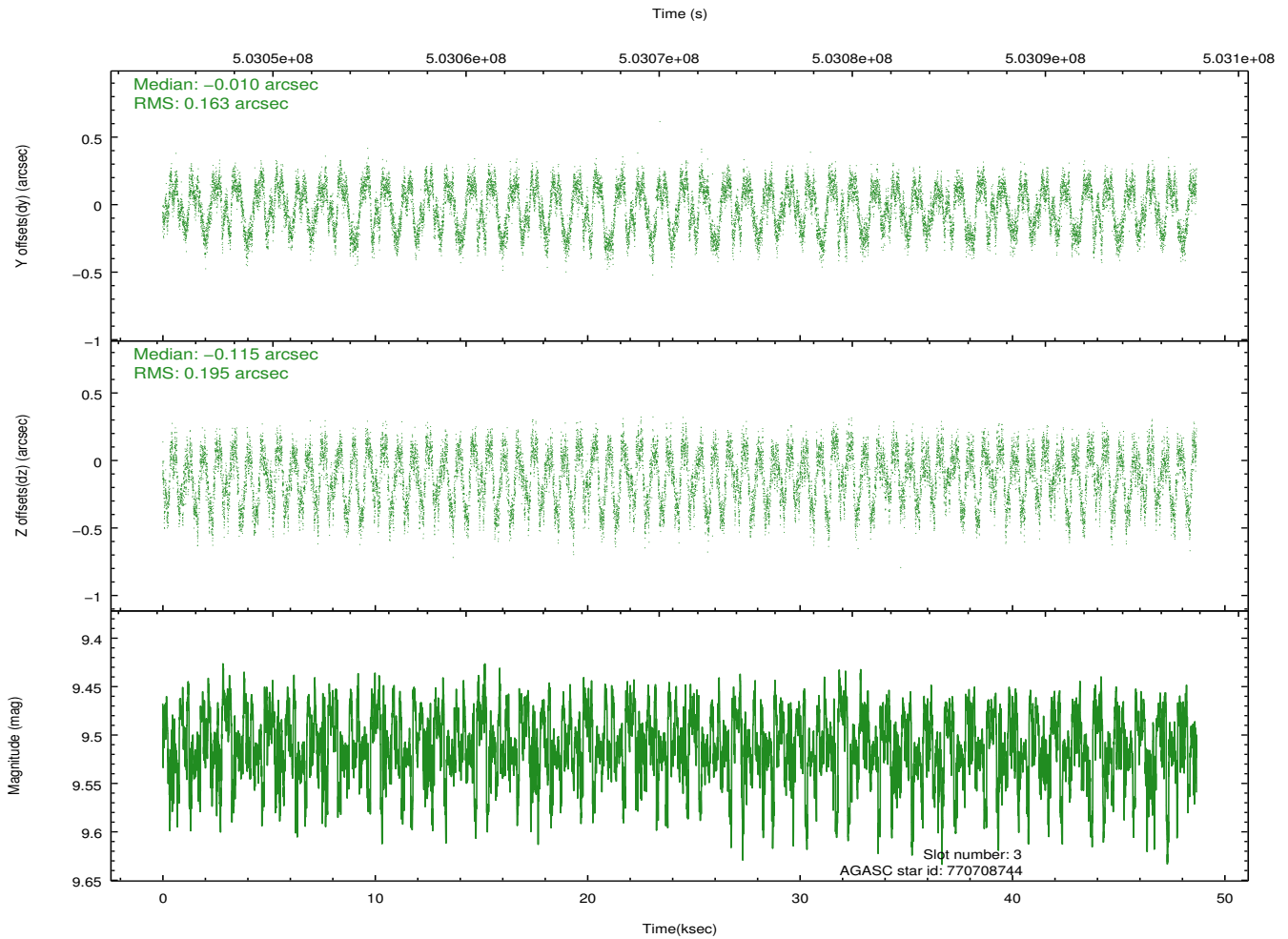
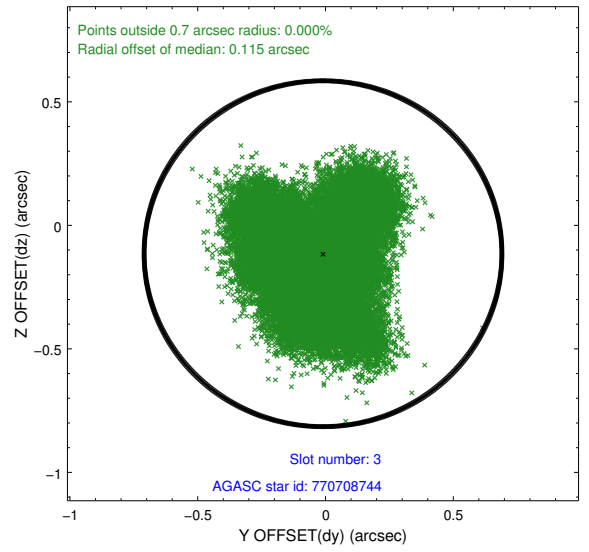
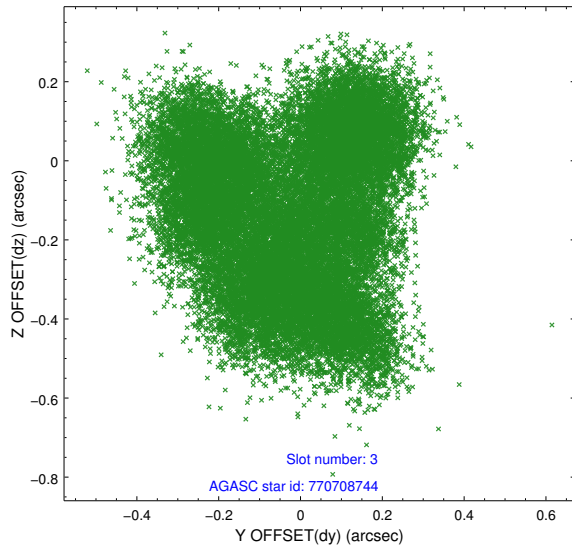


Slot Statistics

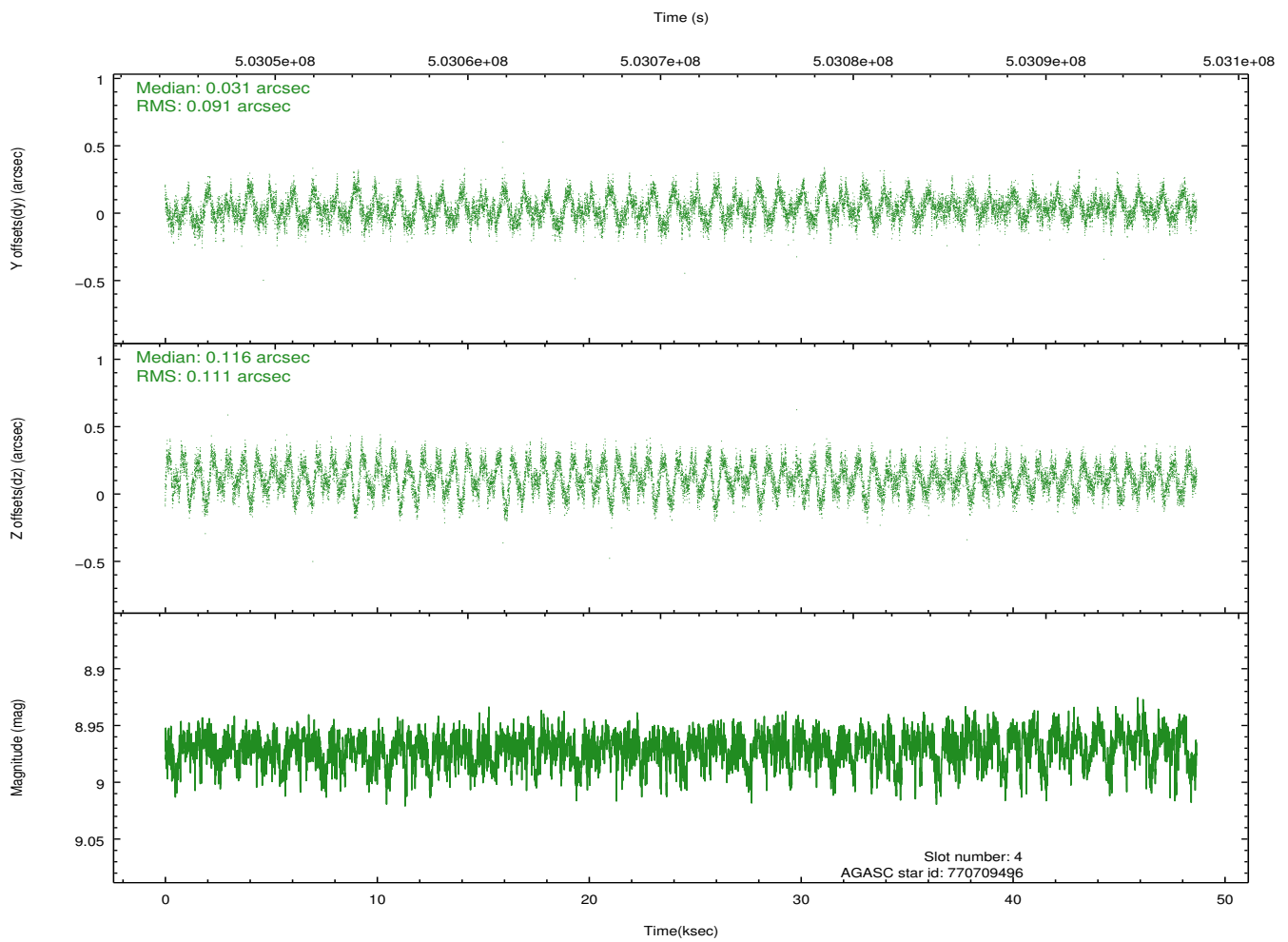
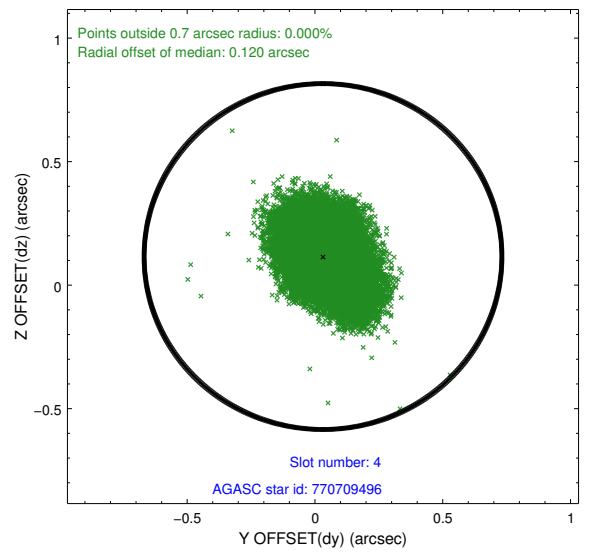
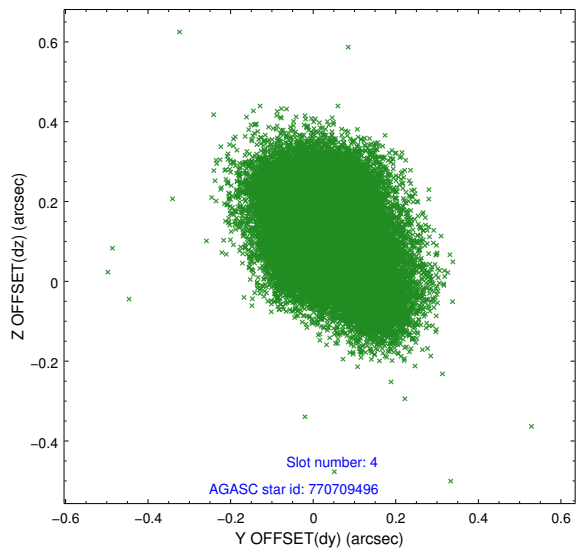
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.98	11873	-0.200	-0.024	0.010	0.031	0.000000	0.000000	-779.10	-1741.69
1	FID		ACIS-S-4	7.07	11873	0.389	0.103	0.012	0.025	0.000000	0.000000	2134.76	166.95
2	FID		ACIS-S-5	7.09	11871	-0.220	-0.070	0.012	0.025	0.000000	0.000000	-1831.99	160.41
3	GUIDE	used	770708744	9.51	23722	-0.010	-0.115	0.280	0.391	54.361194	-20.896620	656.74	376.58
4	GUIDE	used	770709496	8.97	23737	0.031	0.116	0.154	0.243	53.978606	-20.152211	-1751.91	2121.09
5	GUIDE	used	770711784	8.84	23733	-0.162	-0.072	0.144	0.202	54.610970	-20.749967	1146.35	1238.96
6	GUIDE	used	770711840	9.41	23716	0.133	0.189	0.134	0.214	54.678969	-21.315667	2310.63	-447.61
7	GUIDE	used	770712096	9.25	23727	0.025	-0.114	0.102	0.162	54.911369	-20.847197	2203.23	1407.42

2.4 Star Slots

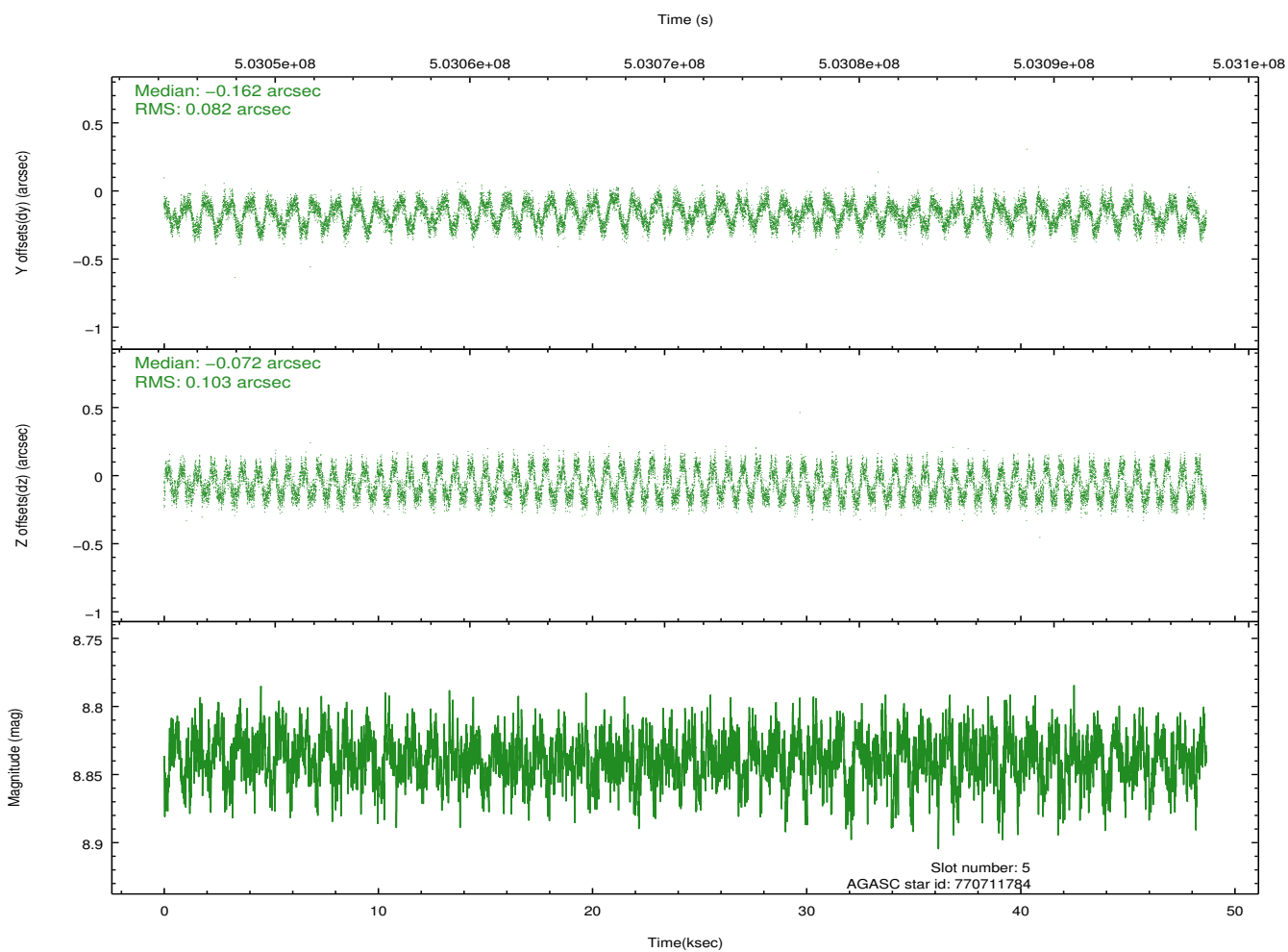
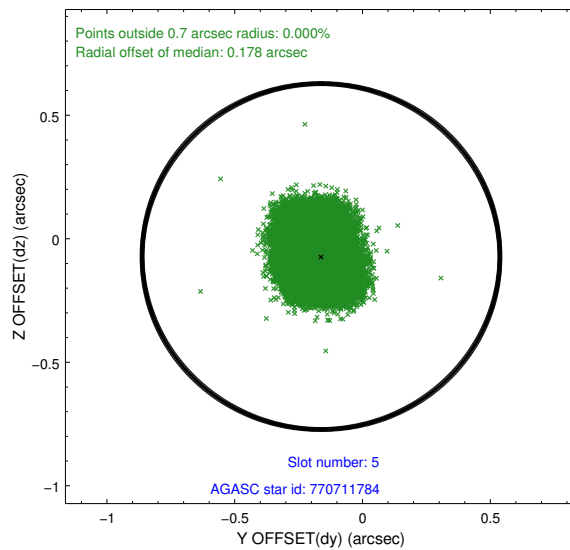
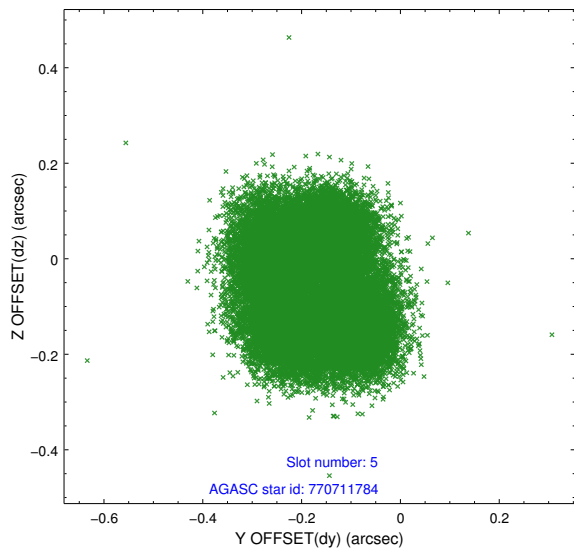
2.4.1 Slot 3



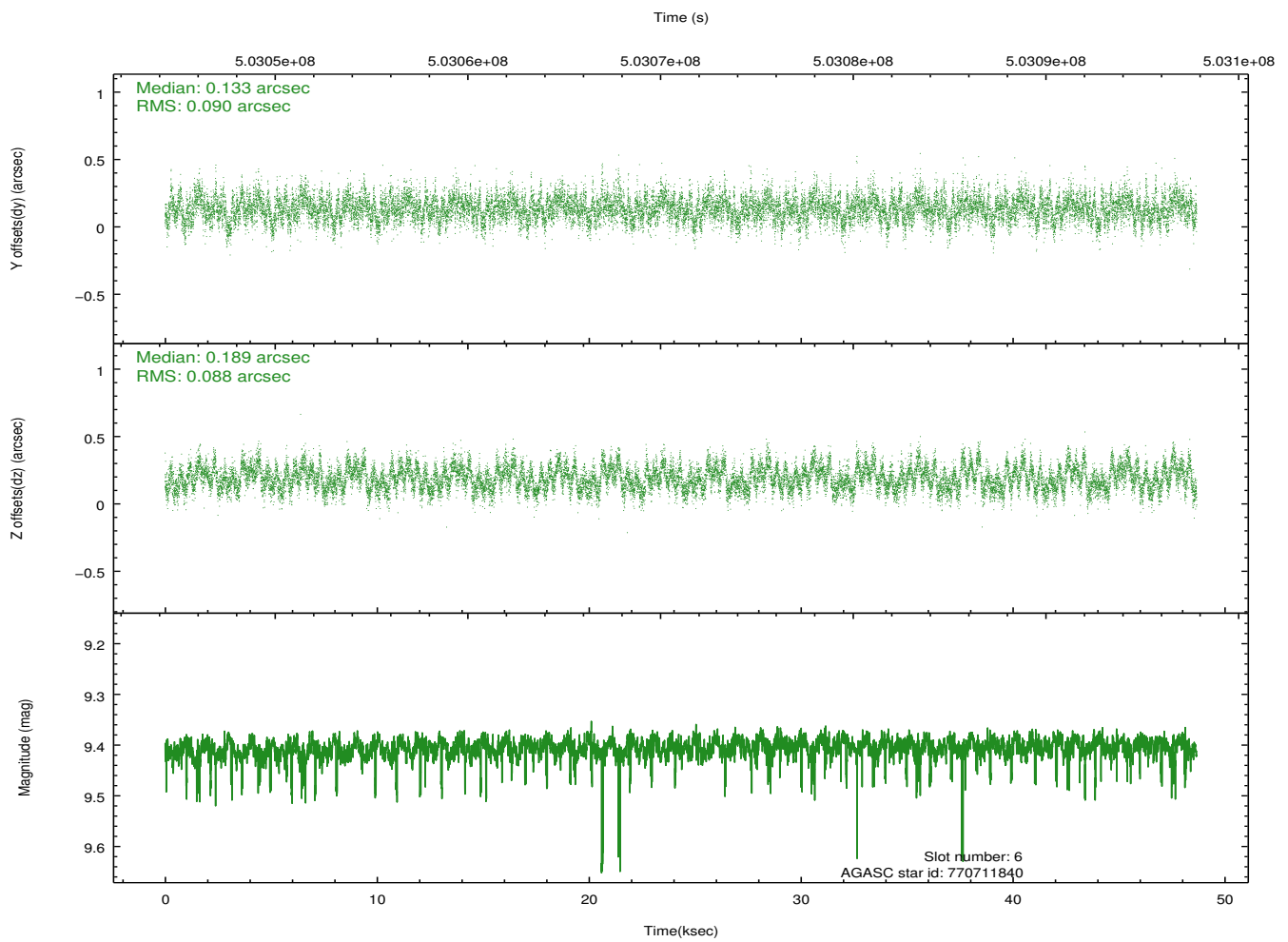
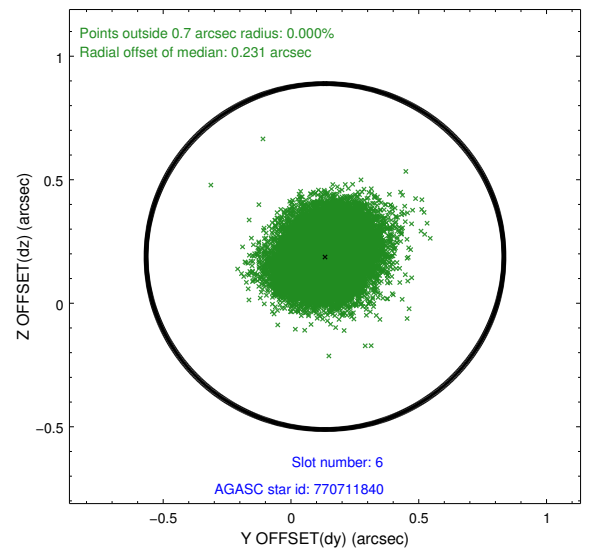
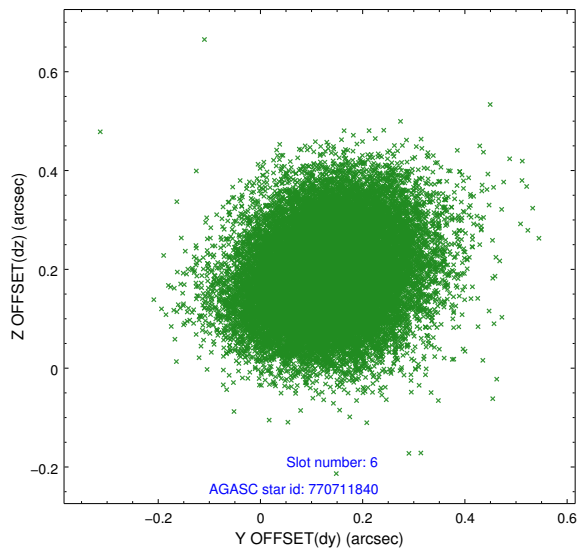
2.4.2 Slot 4



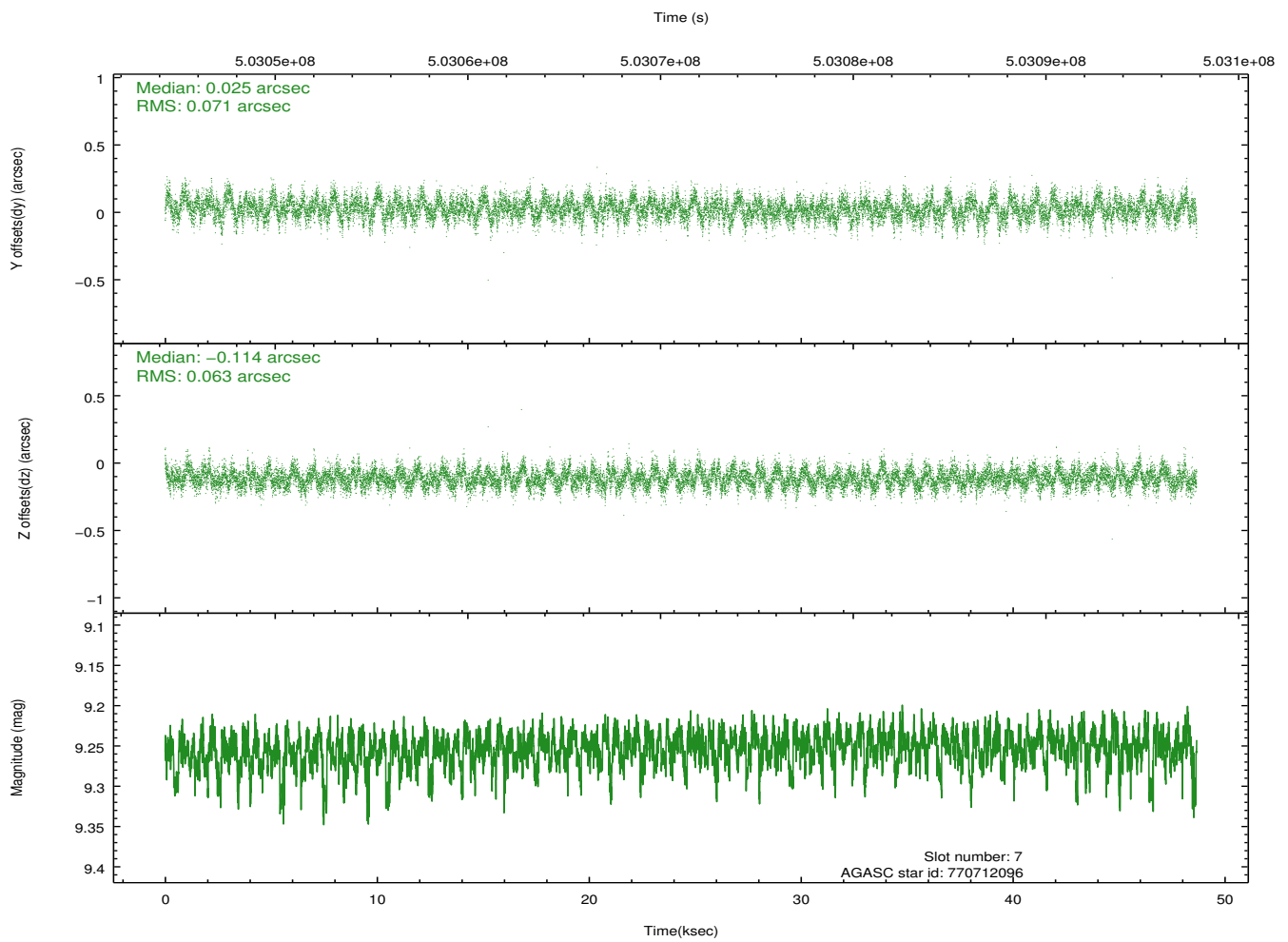
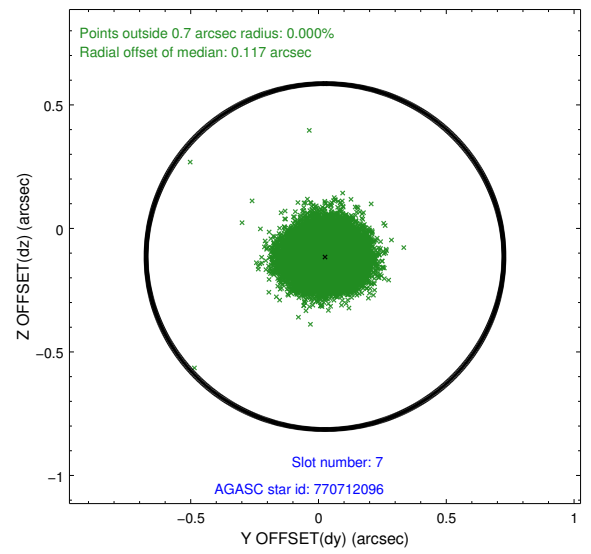
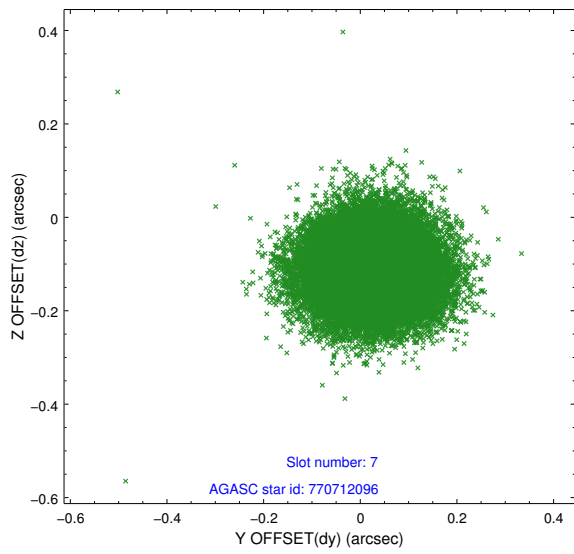
2.4.3 Slot 5



2.4.4 Slot 6

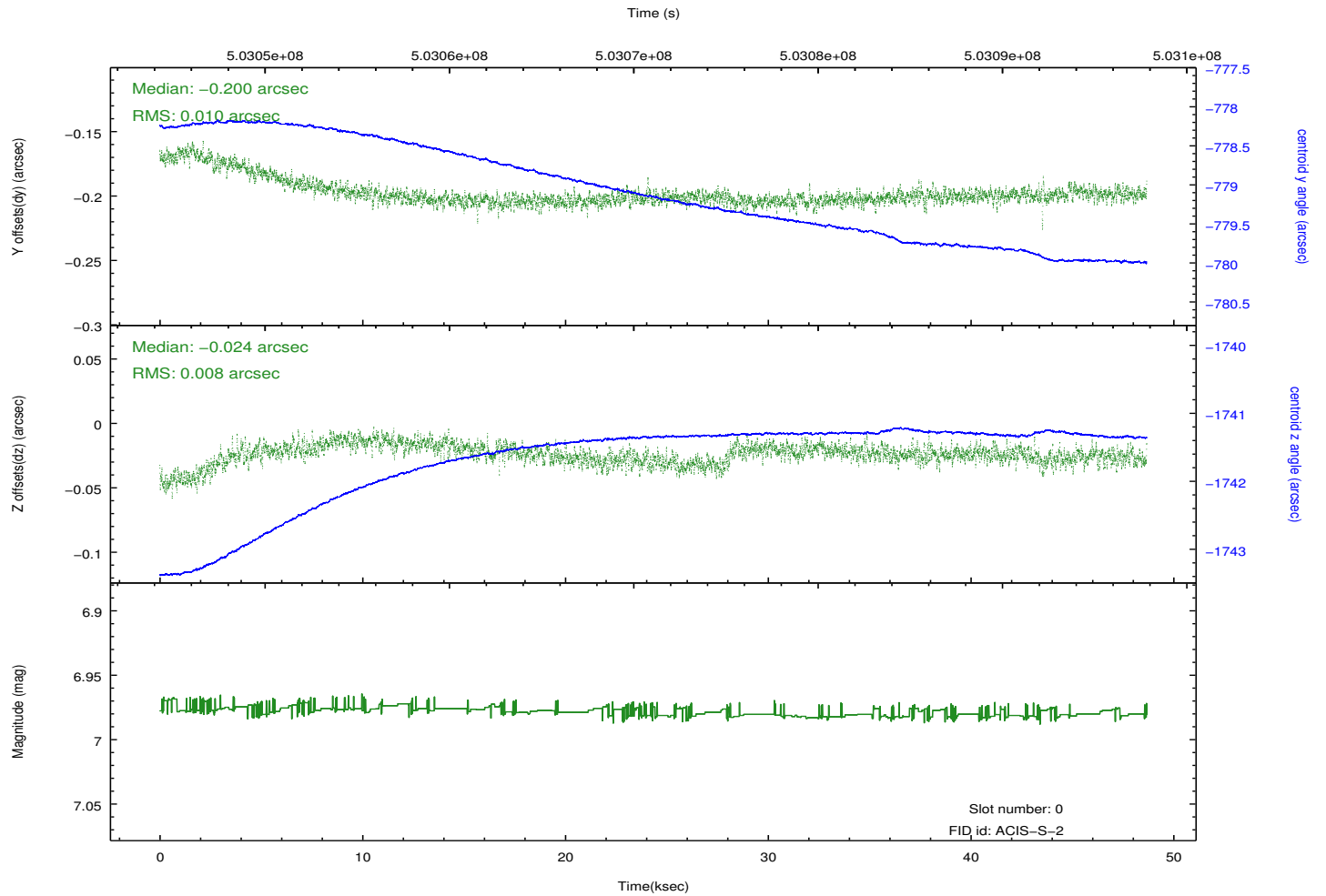
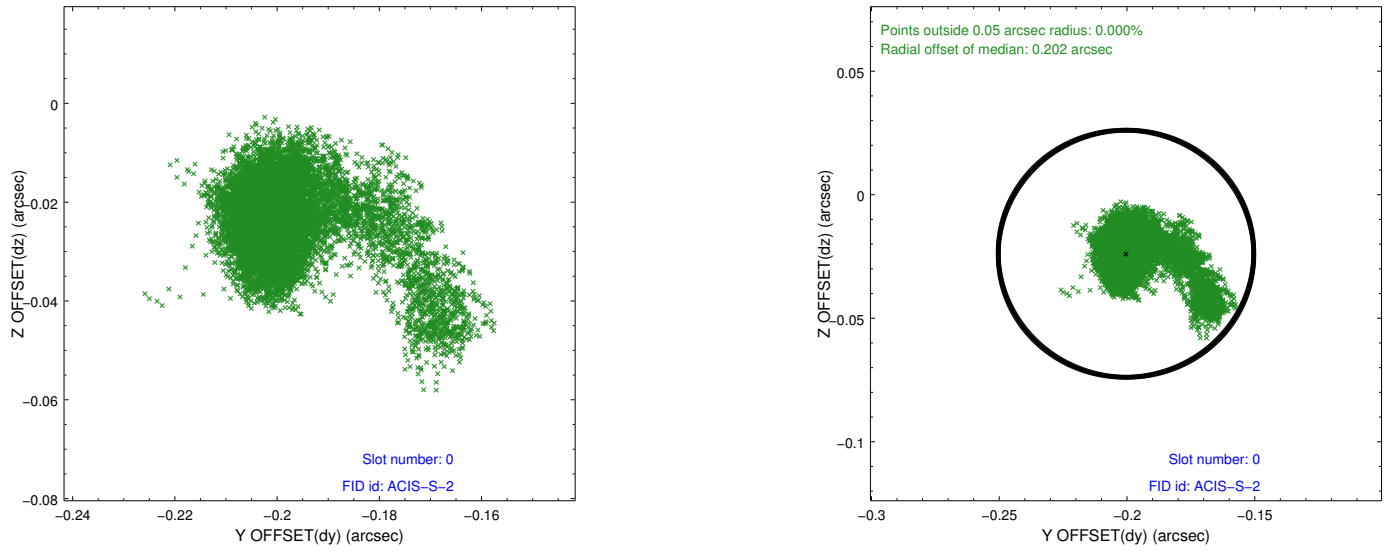


2.4.5 Slot 7

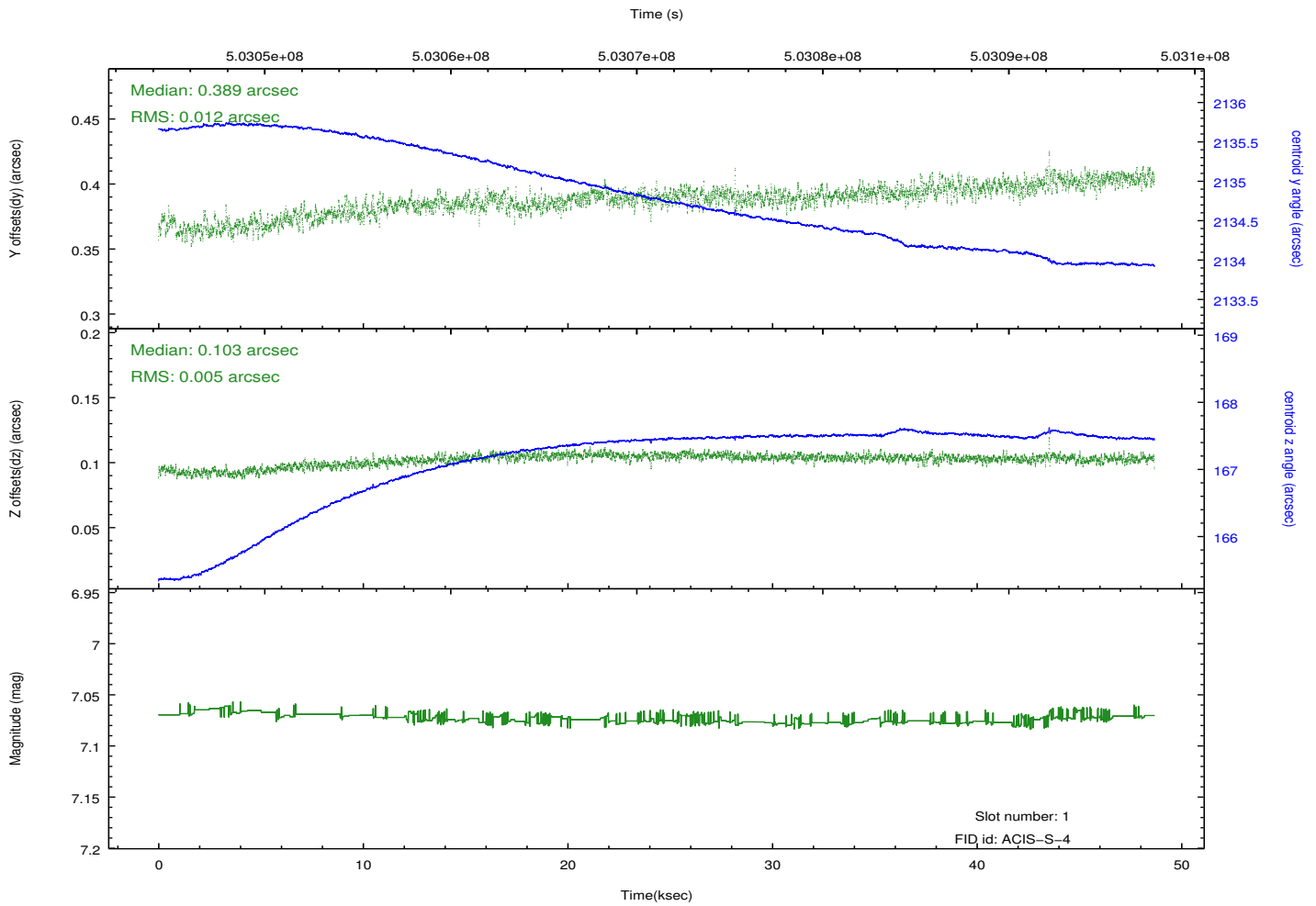
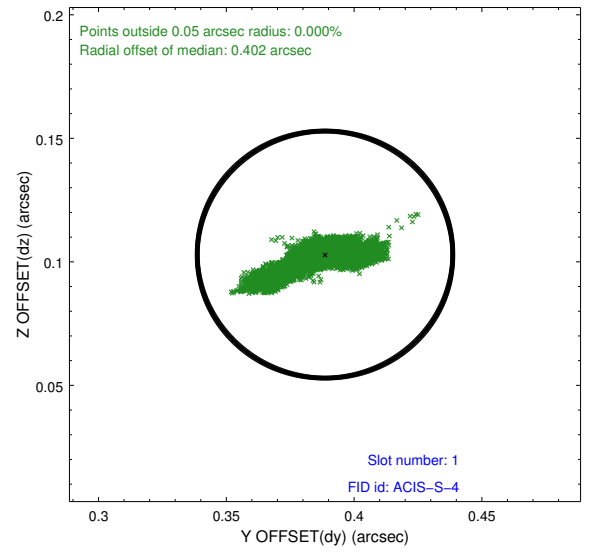
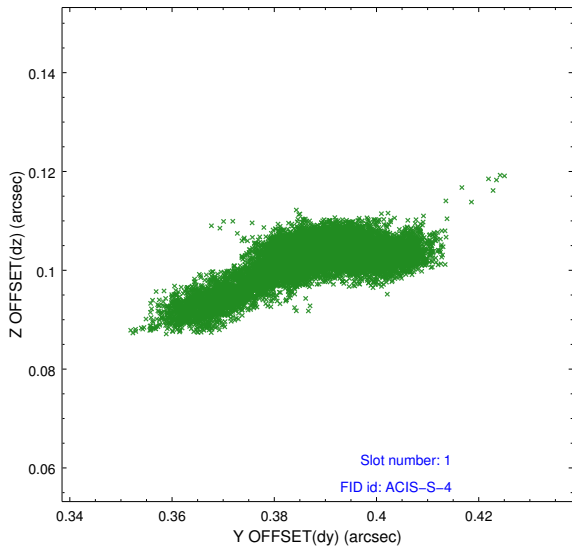


2.5 FID Slots

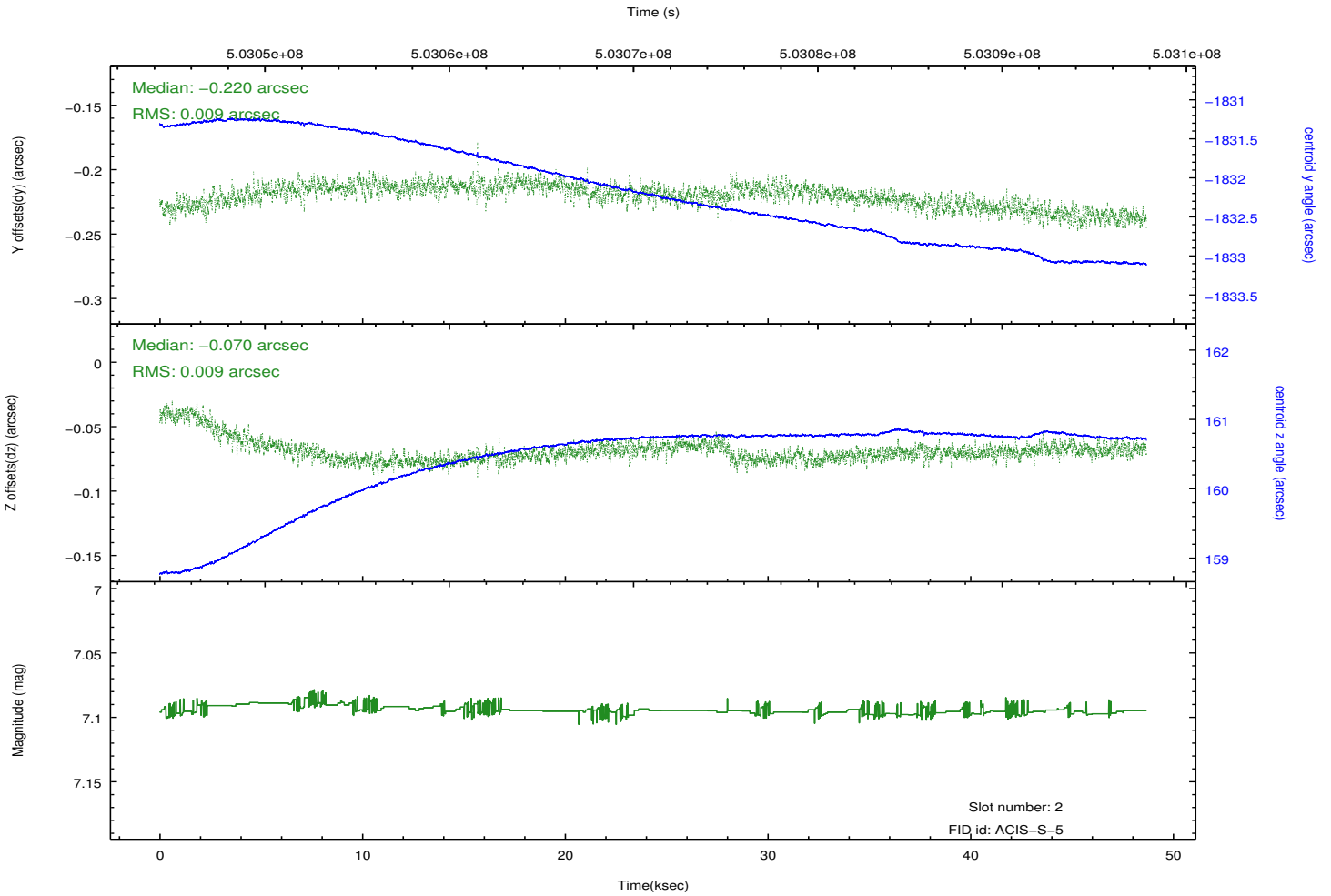
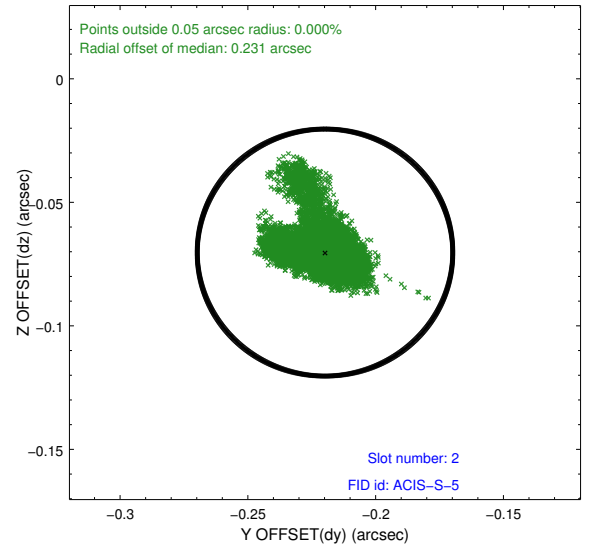
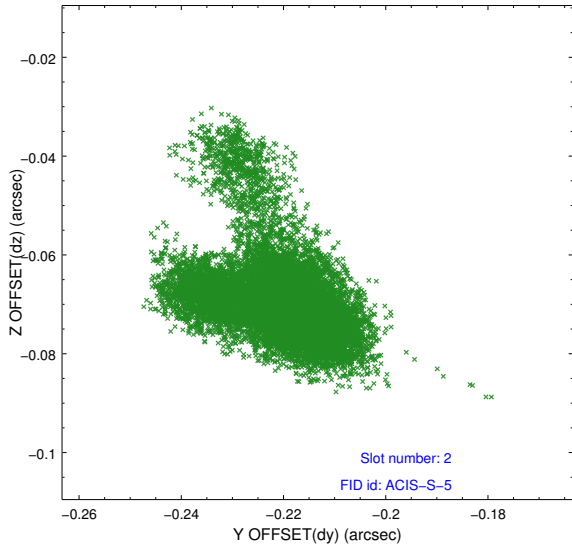
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.557997105718

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.