

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14655 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Dec 1 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

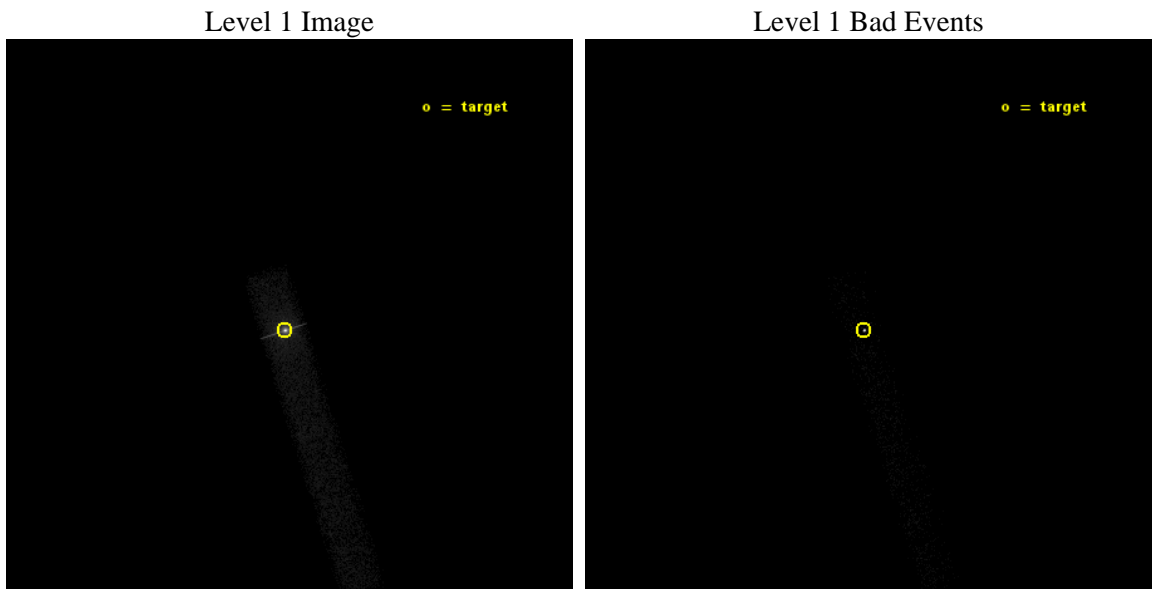
seq_num	401488	Sequence number
obs_id	14655	Observation id
title	Sub-arcsecond Imaging of the Microquasar SS 433	Proposal title
observer	Dr. Mark Reynolds	Principal investigator
object	SS 433	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.956667	Observer's specified target RA [deg]
dec_targ	4.98275	Observer's specified target Dec [deg]
ra_nom	287.95474323978	Nominal RA [deg]
dec_nom	4.9850616814223	Nominal Dec [deg]
roll_nom	72.156800312487	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20069.998803735	Sum of GTIs [s]
livetime	18202.429533589	Livetime [s]
ontime7	20069.998803735	Sum of GTIs [s]
l2events	55406	Number of level 2 events



2 OBI

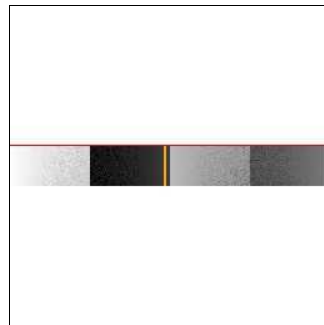
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20069.998803735	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	20069.998803735	Sum of GTIs [s]
date	2014-12-01T13:28:26	Date and time of file creation	l1events	91465	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

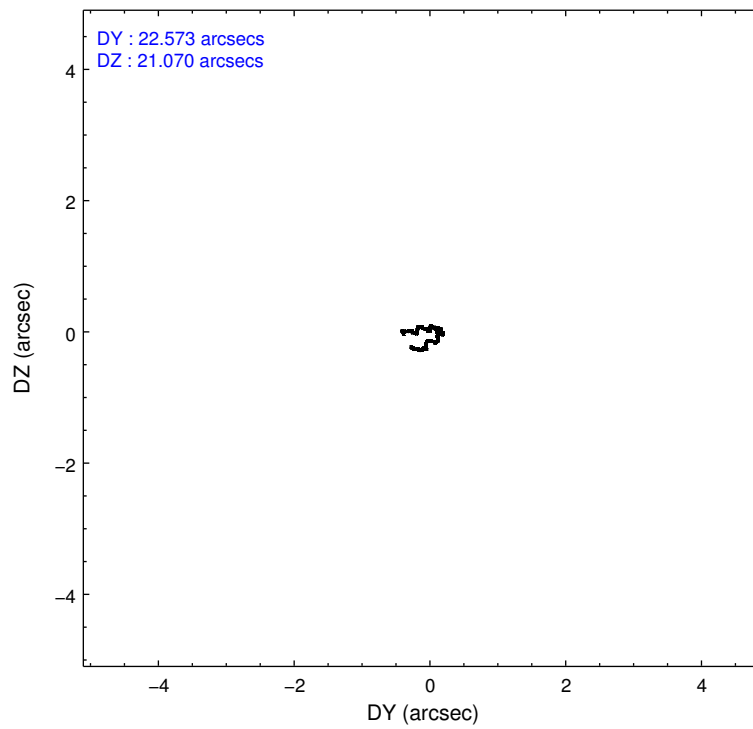
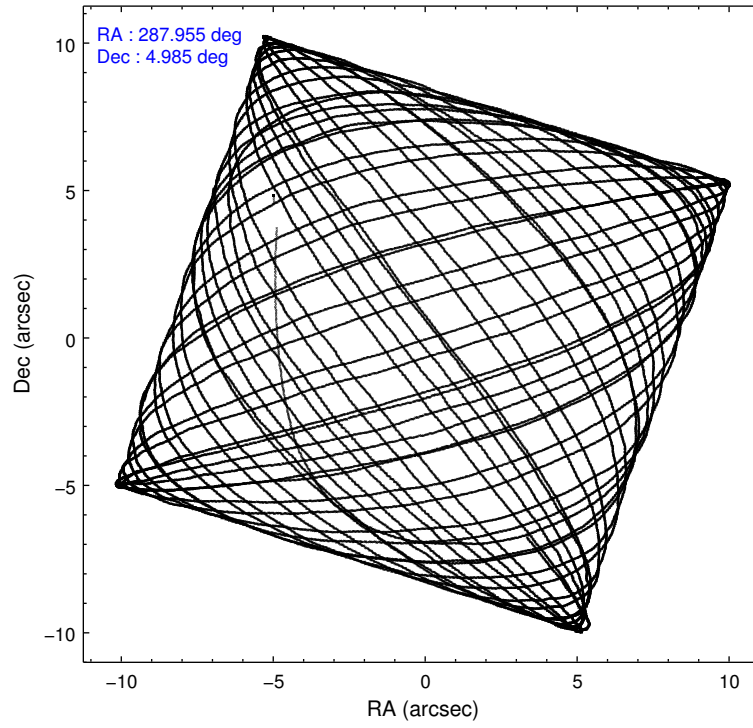
	ccd 7
level 1 events	91465
rejected events	35549
rejected %	38%

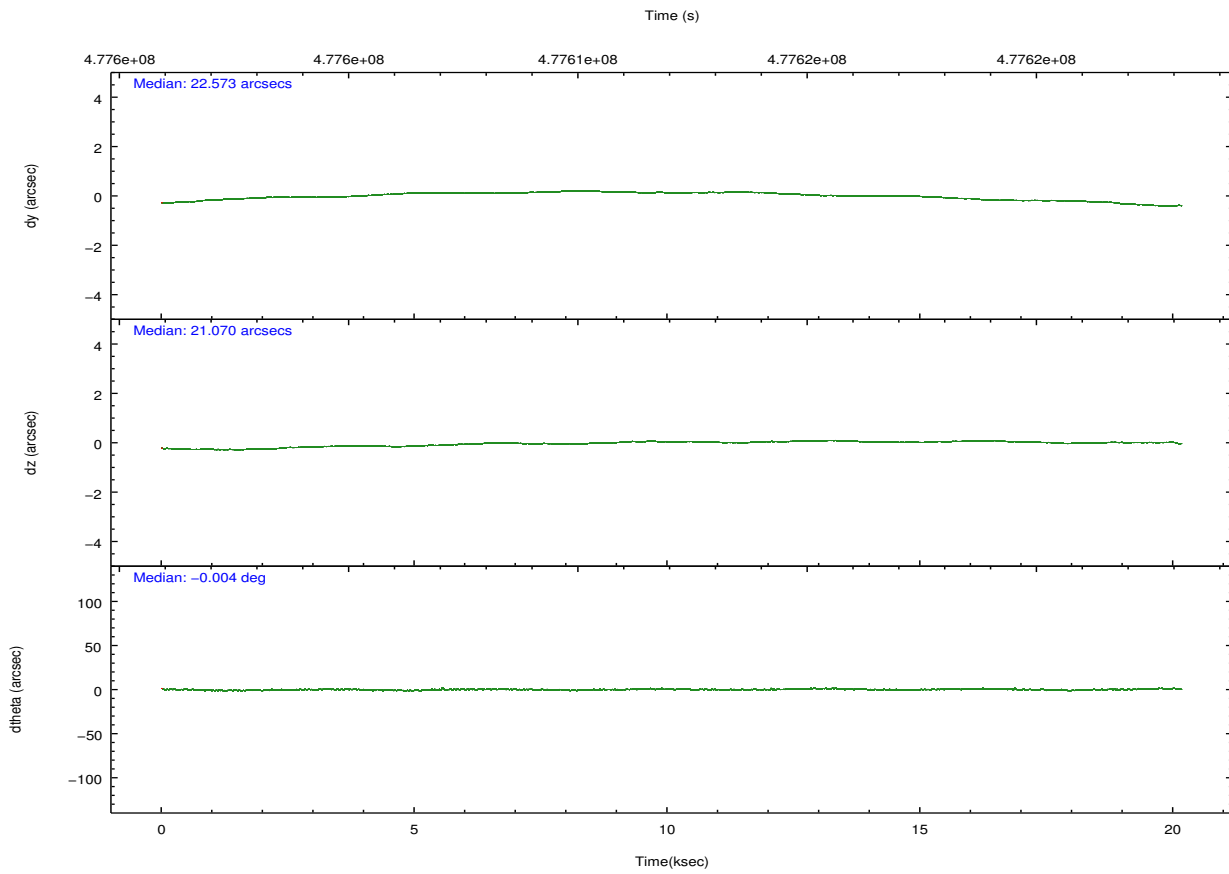
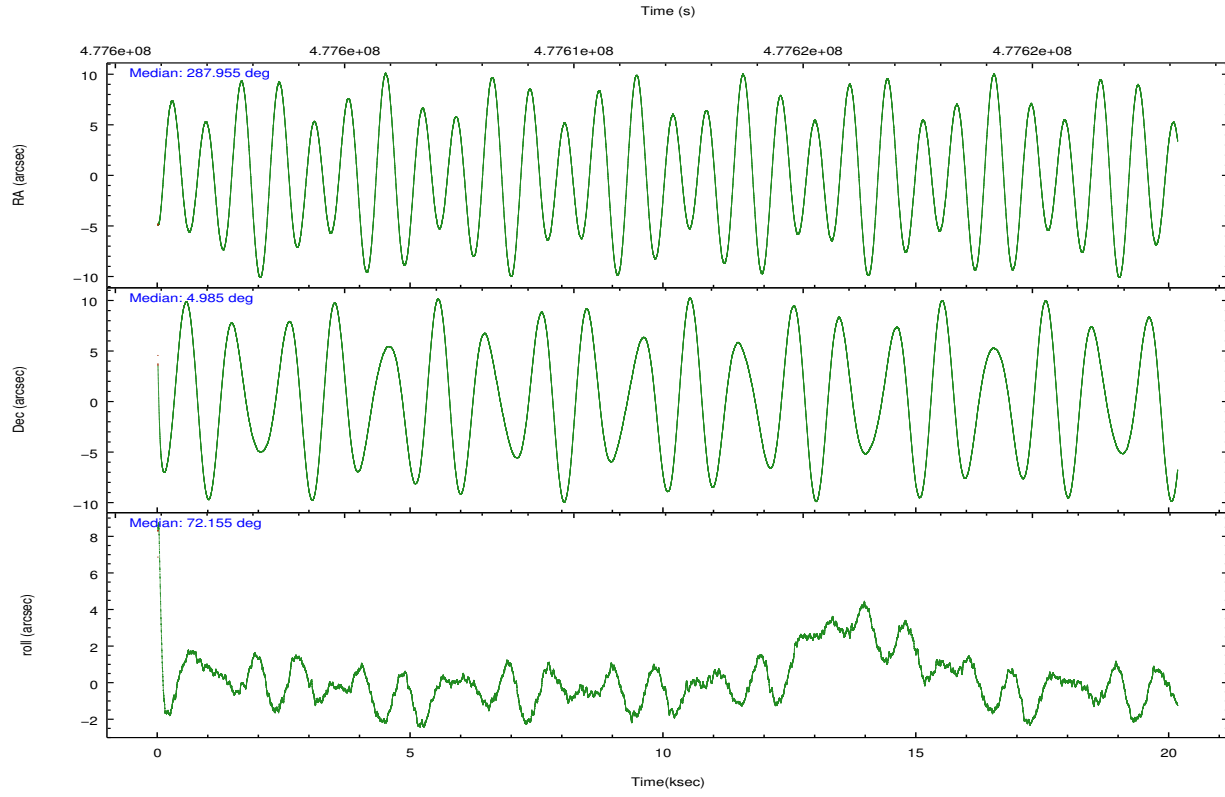
	ccd 7
grade 0 events	7830
	8%
grade 1 events	1115
	1%
grade 2 events	11459
	12%
grade 3 events	5523
	6%
grade 4 events	5482
	5%
grade 5 events	8317
	9%
grade 6 events	25624
	28%
grade 7 events	26115
	28%

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	287.960873	287.9547432397846	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	4.958429	4.98506168142227	Subarray start row	449	449
[deg] Pointing Roll	71.999637	72.15680031248745	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			
Phase constraints	Y	Y			
[d] Phase period	13.082110	13.082110			
[d] Phase epoch (MJD)	55255.964000	55255.964000			
Phase start	0.925000	0.925000			
Phase end	0.075000	0.075000			
Phase start error	0.000000	0.000000			
Phase end error	0.000000	0.000000			
[s] Observation start time (MET)	477602129.184000	477601258.64376			
Observation start date	2013-02-18T19:14:22	2013-02-18T19:00:58			
[s] Observation end time (MET)	477622129.184000	477622725.21992			
Observation end date	2013-02-19T00:47:42	2013-02-19T00:58:45			
Read mode	TIMED	TIMED			

2.3 Aspect





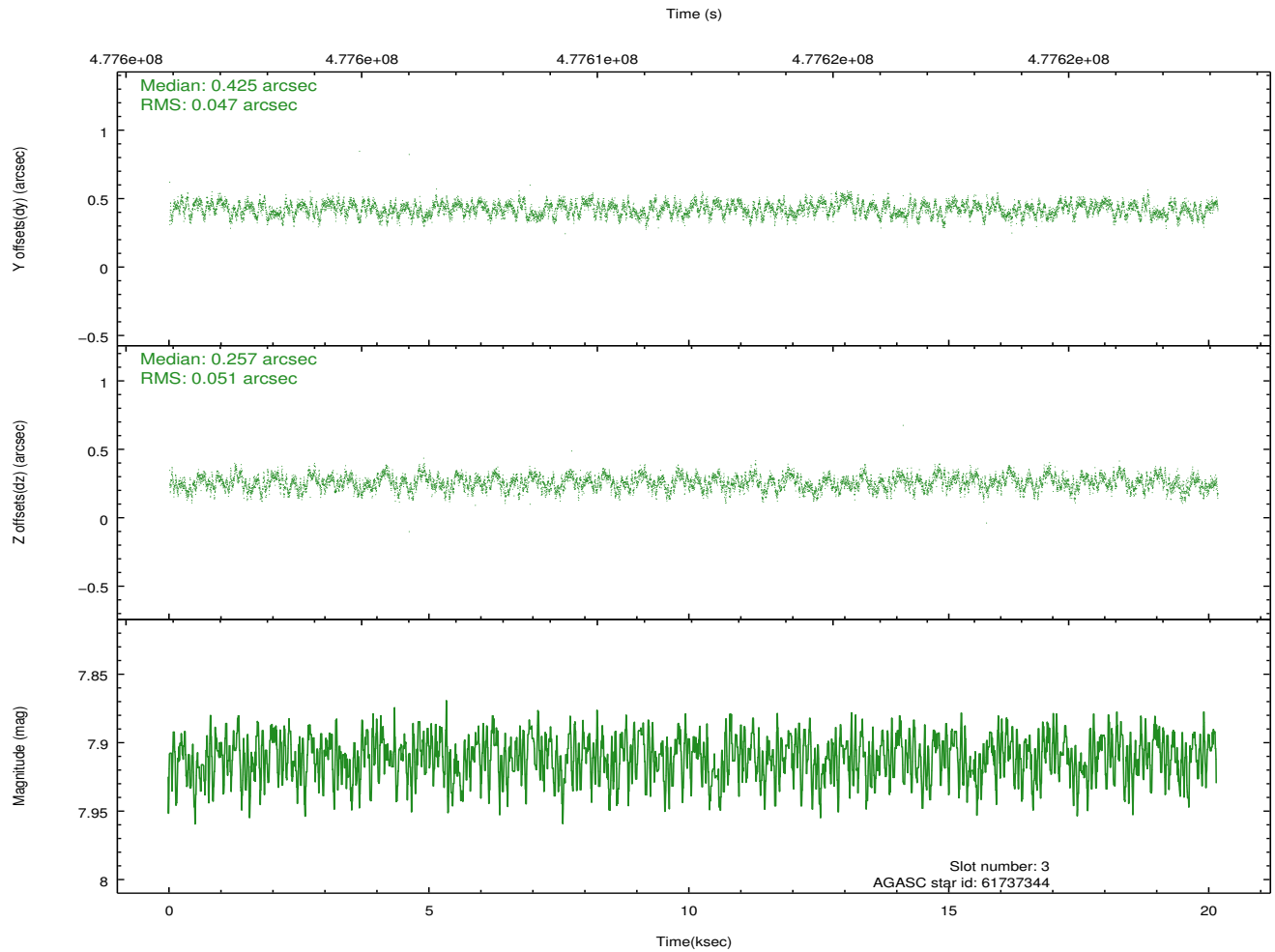
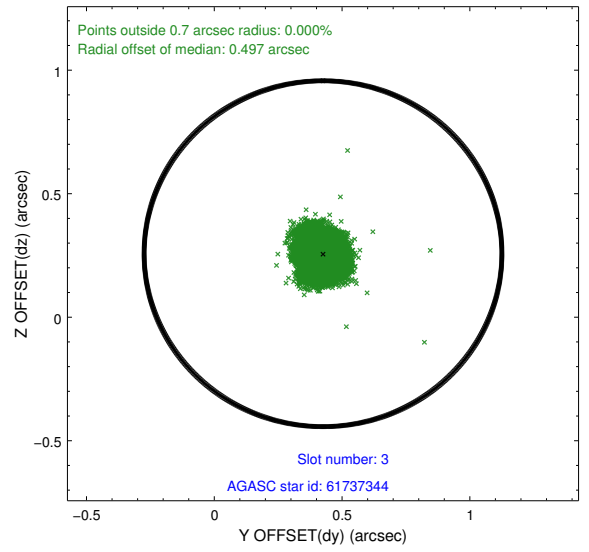
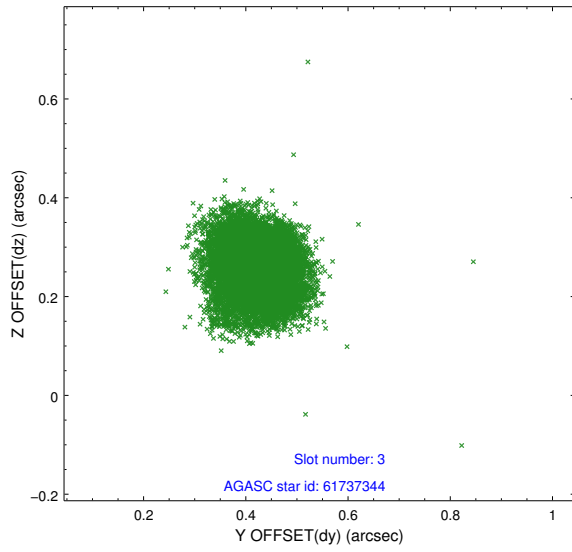
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	4919	-0.098	-0.000	0.008	0.013	0.000000	0.000000	-775.82	-1742.52
1	FID		ACIS-S-4	7.01	4918	0.239	0.047	0.010	0.018	0.000000	0.000000	2137.70	165.82
2	FID		ACIS-S-5	7.04	4919	-0.172	-0.038	0.010	0.018	0.000000	0.000000	-1828.50	159.61
3	GUIDE	used	61737344	7.91	9836	0.425	0.257	0.075	0.117	288.389606	4.264010	-1900.90	-2235.79
4	GUIDE	used	61738240	7.29	9836	0.118	0.165	0.071	0.110	287.996556	4.354861	-2026.65	-793.23
5	GUIDE	used	61741304	7.64	9836	-0.253	-0.297	0.062	0.098	287.957418	5.377327	1430.48	477.46
6	GUIDE	used	61743800	7.47	9836	-0.191	-0.292	0.080	0.131	287.776811	5.274666	879.18	979.36
7	GUIDE	used	61744976	7.61	9833	-0.101	0.166	0.052	0.084	288.430364	5.306675	1713.34	-1212.46

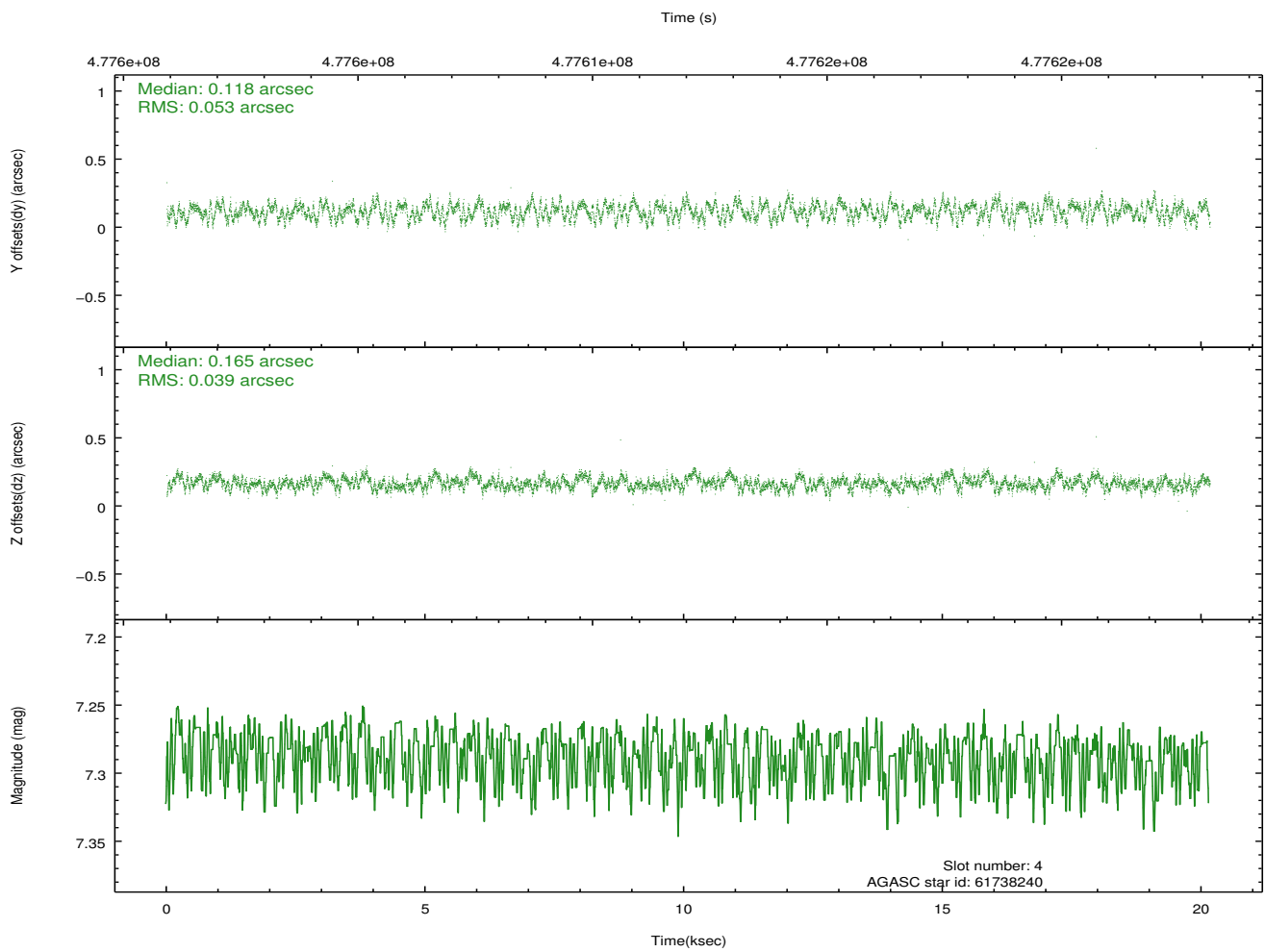
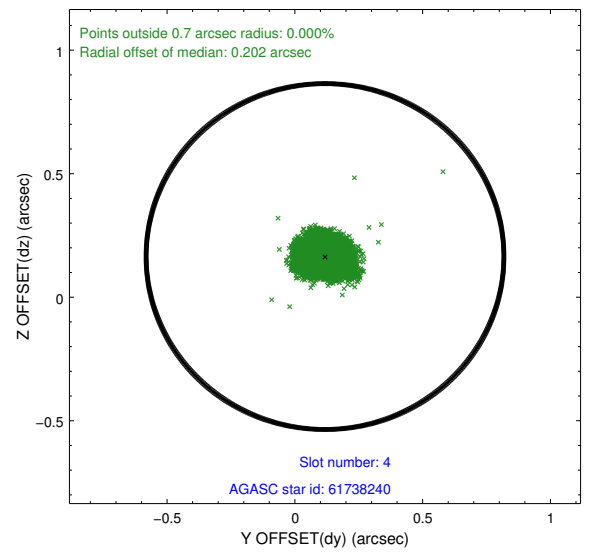
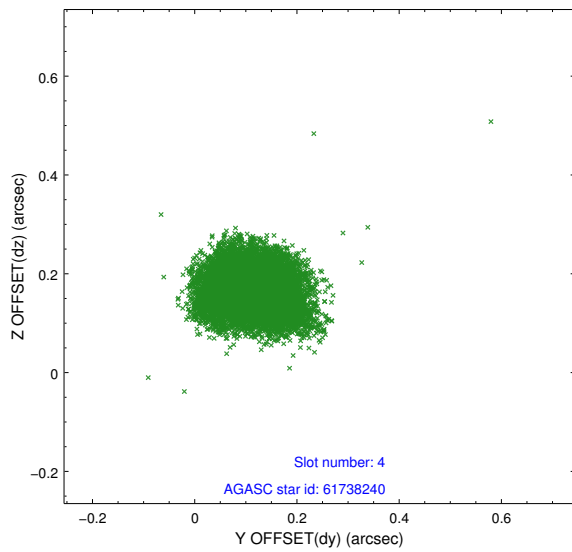
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2.4 Star Slots

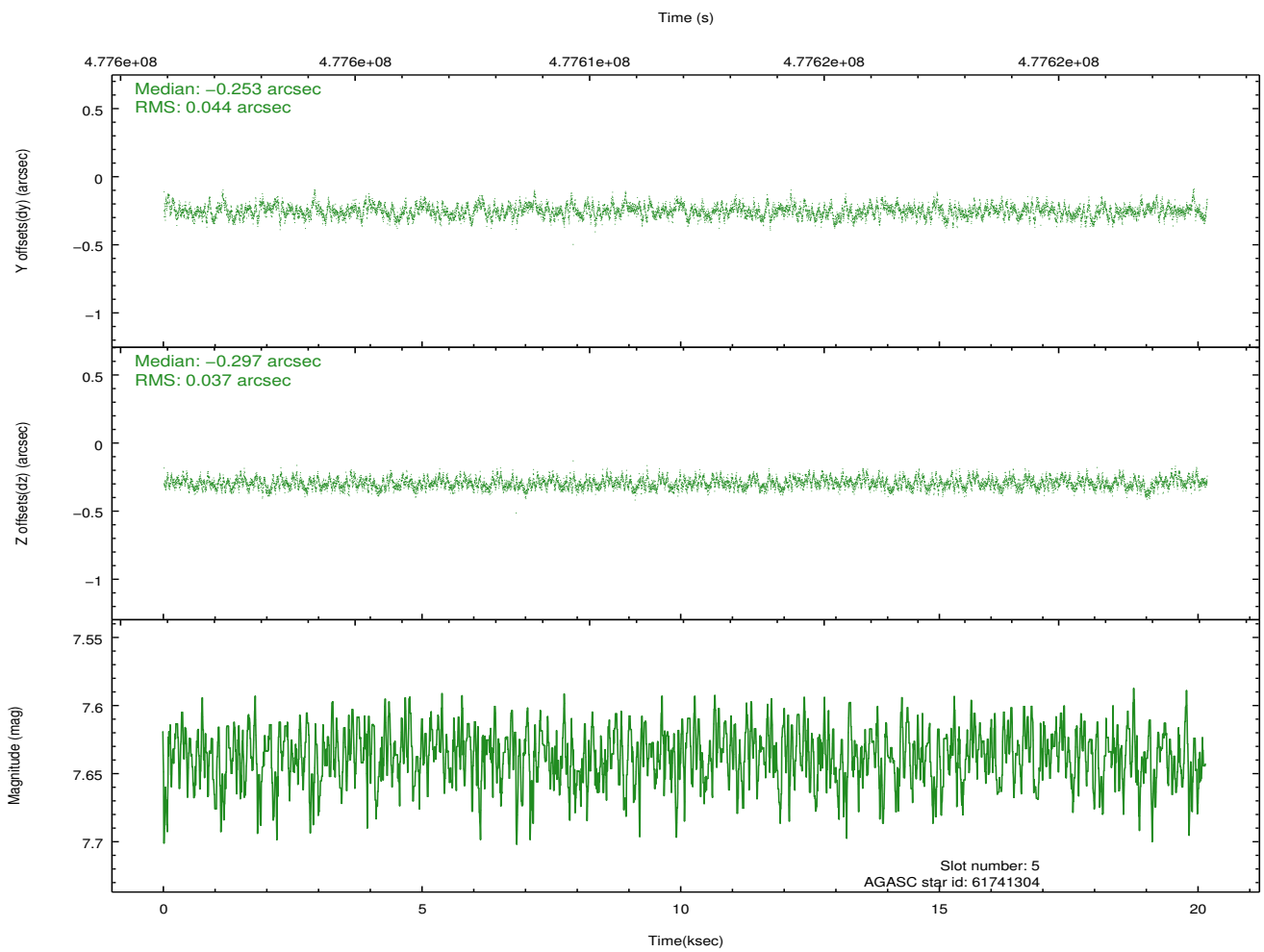
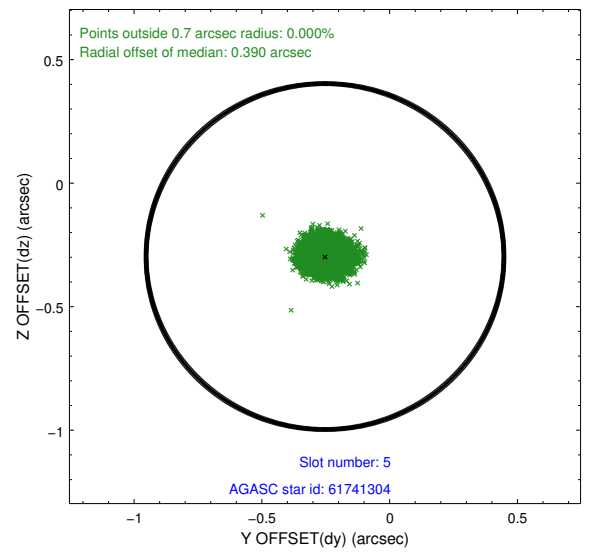
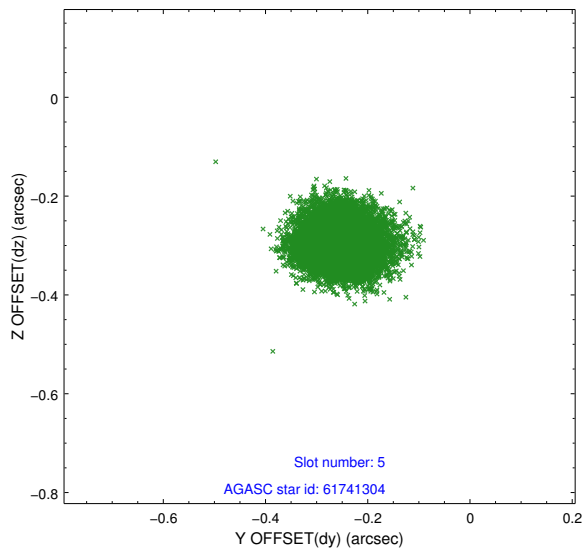
2.4.1 Slot 3



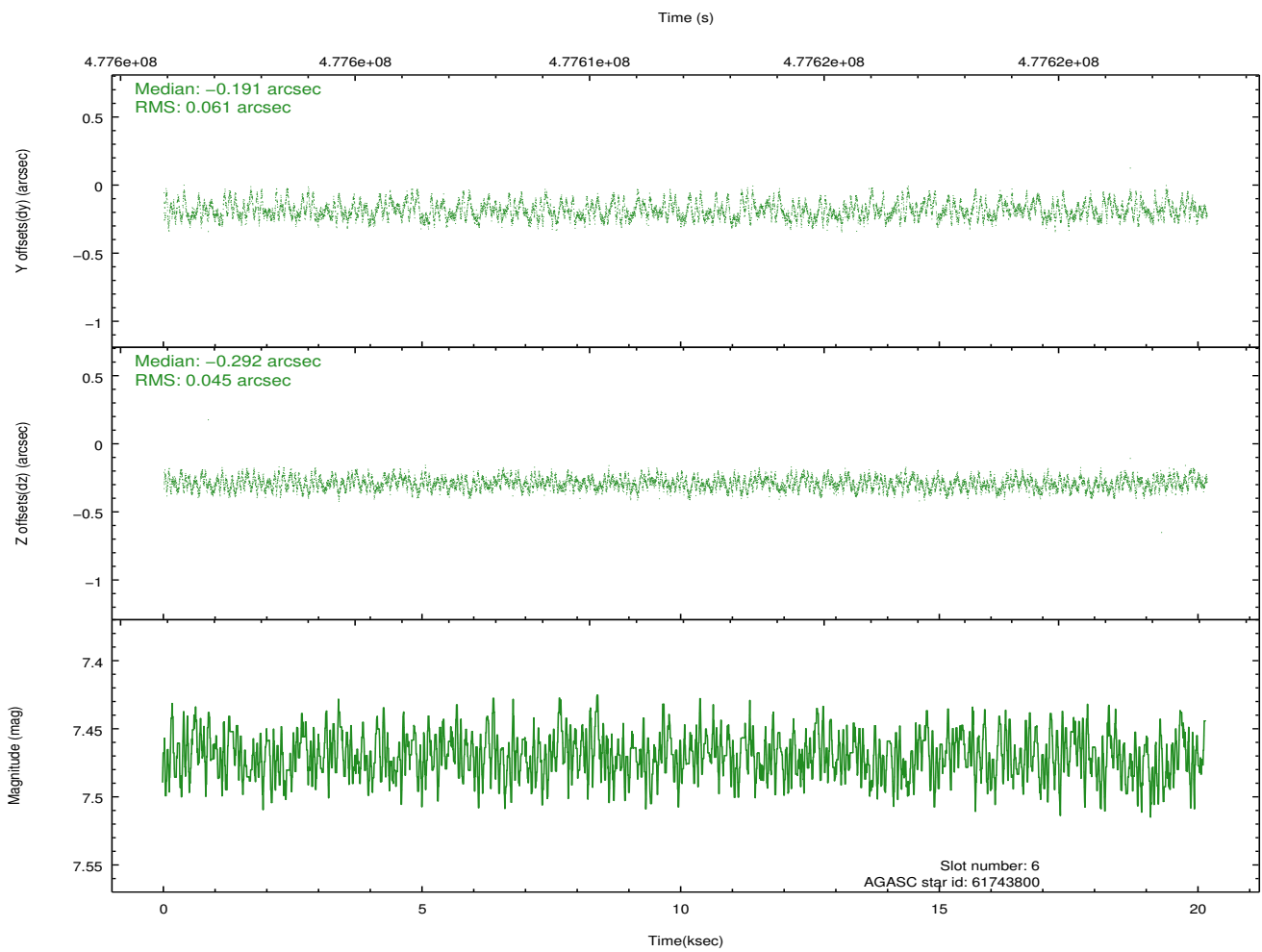
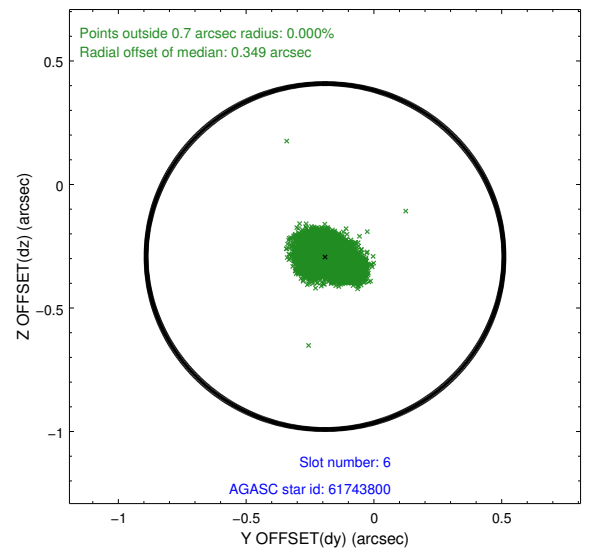
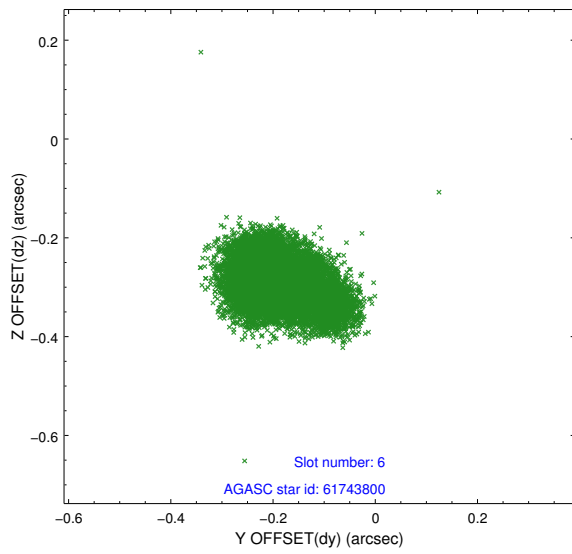
2.4.2 Slot 4



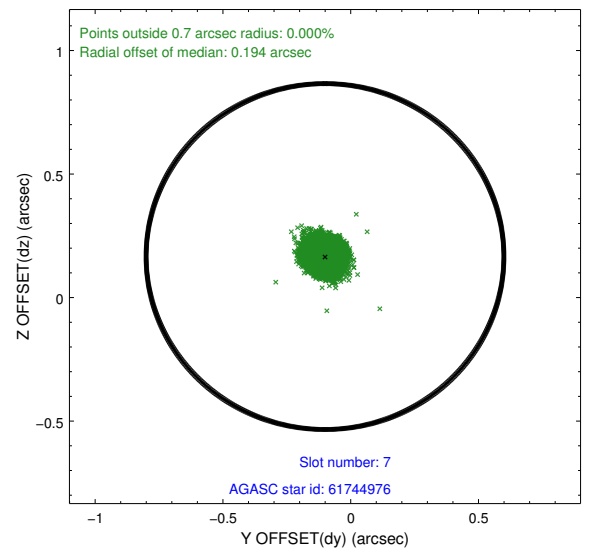
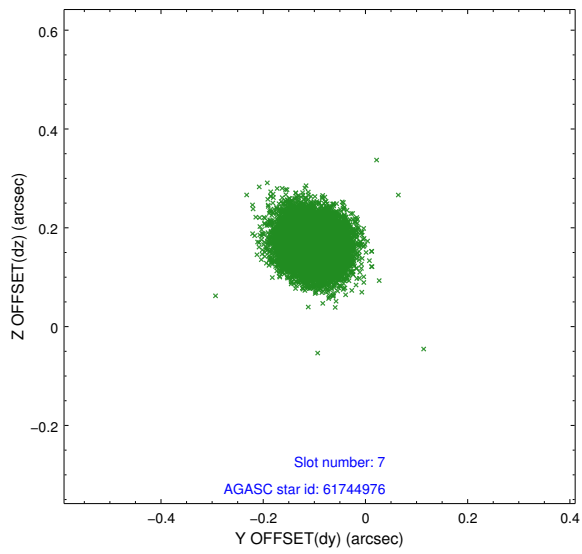
2.4.3 Slot 5



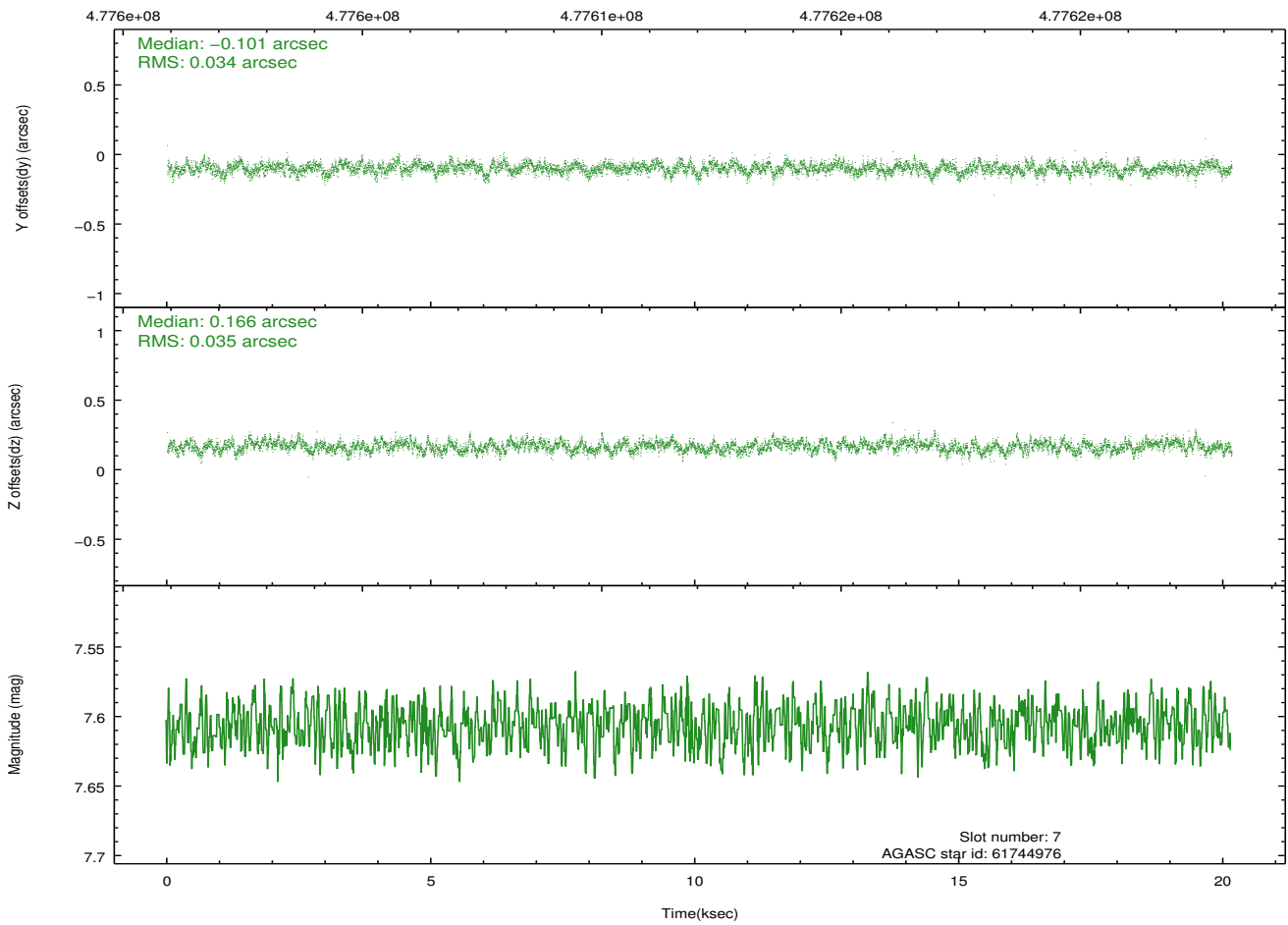
2.4.4 Slot 6



2.4.5 Slot 7

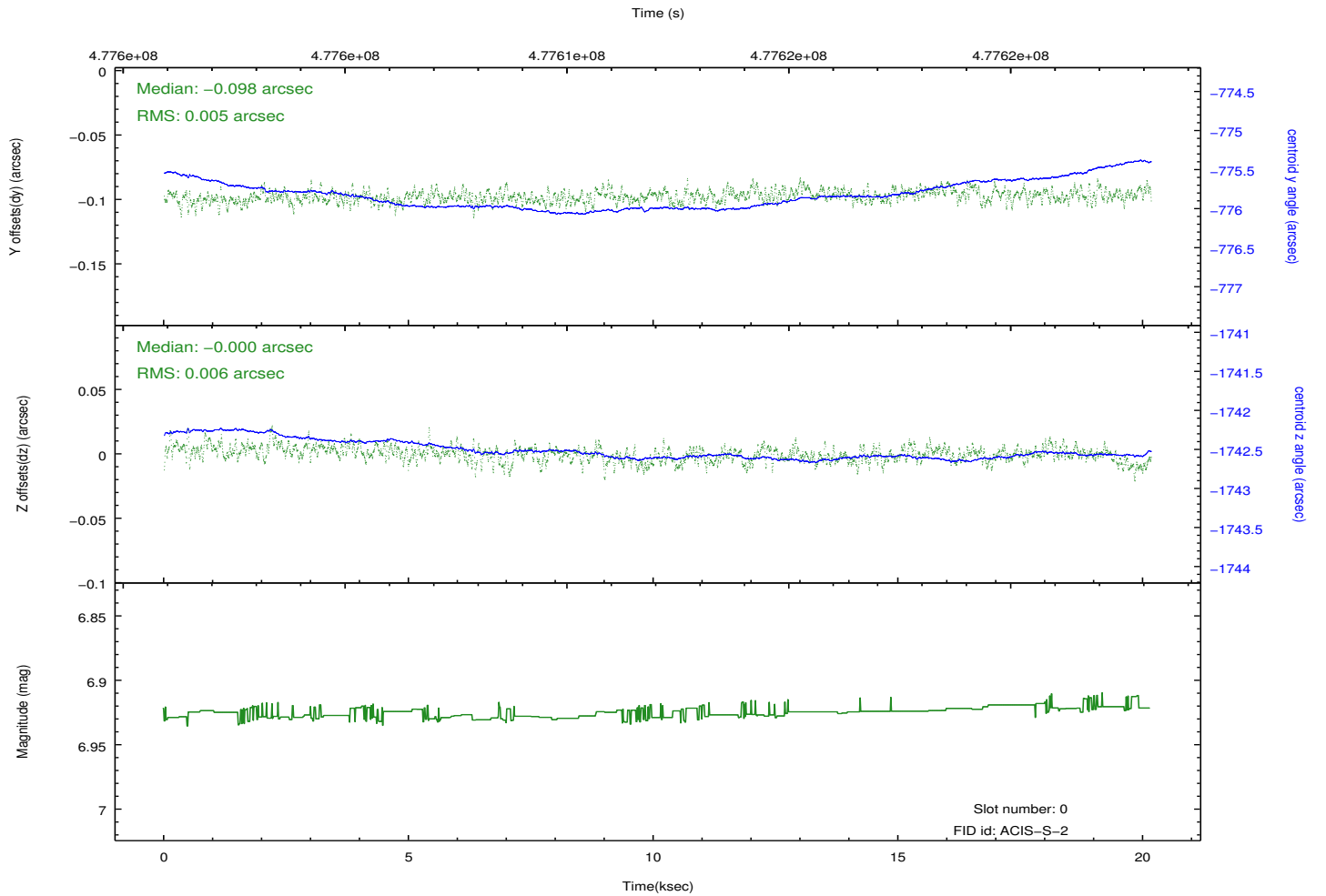
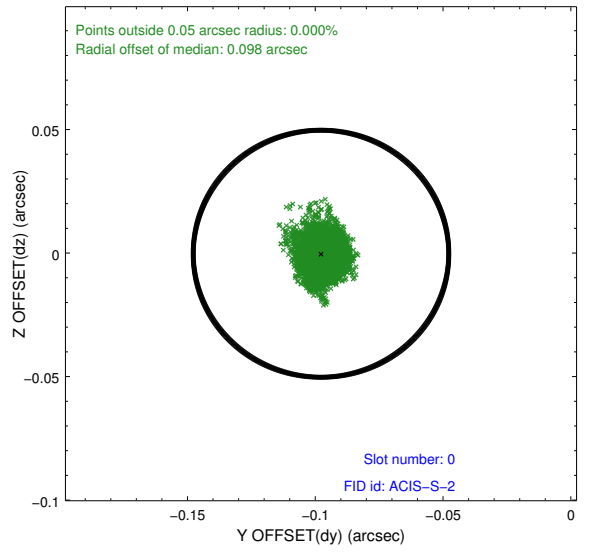
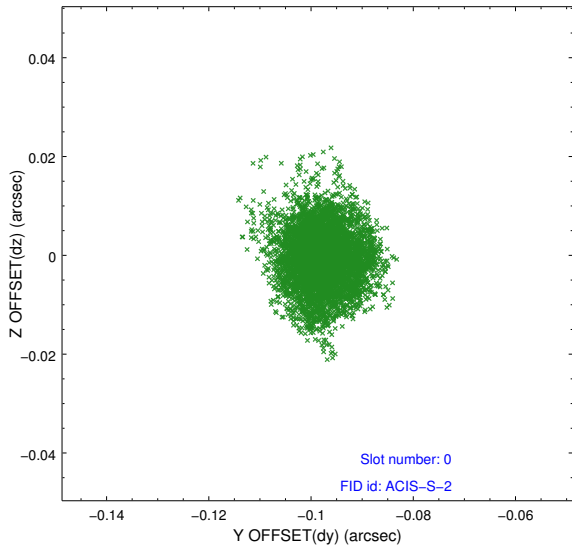


Time (s)

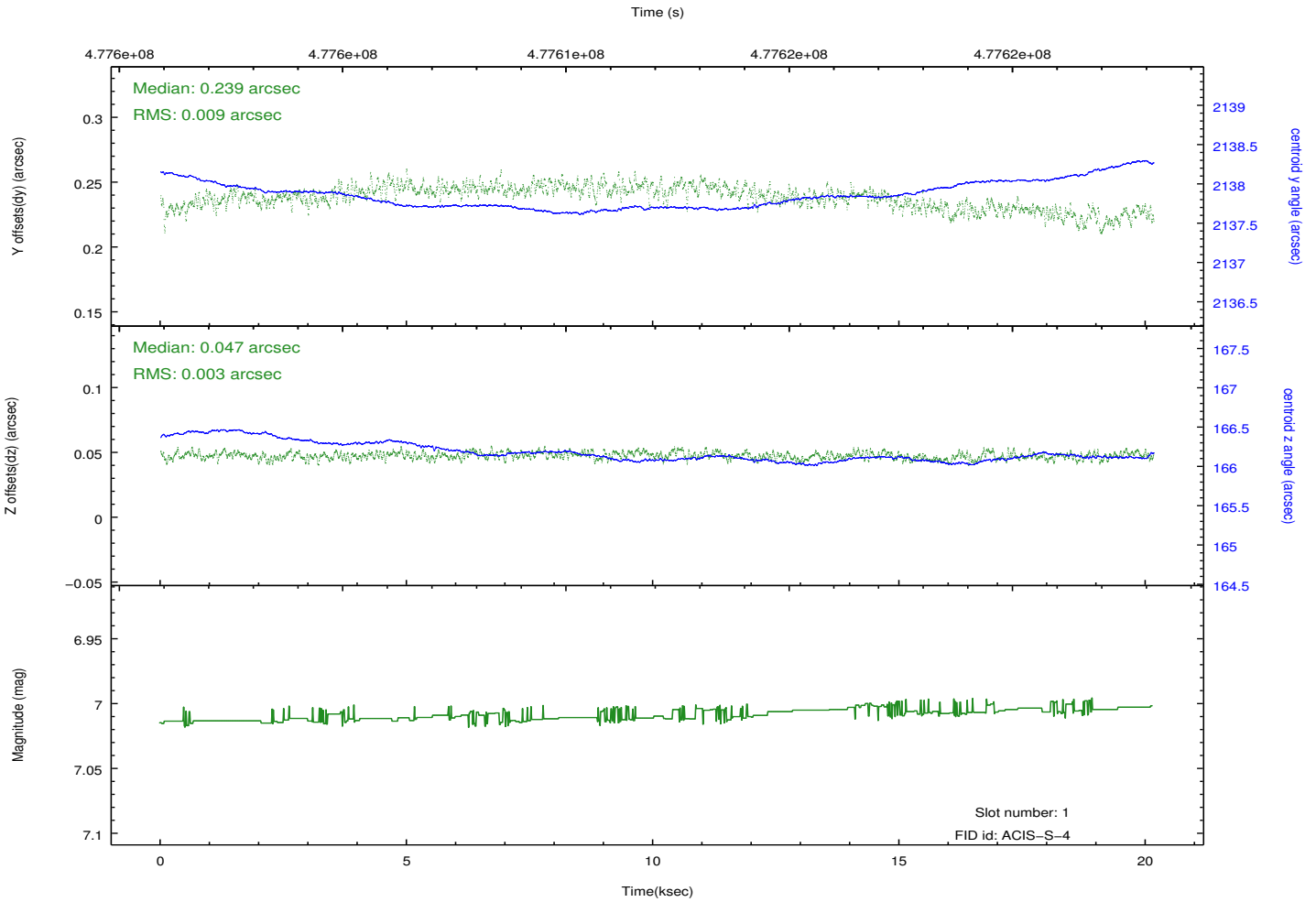
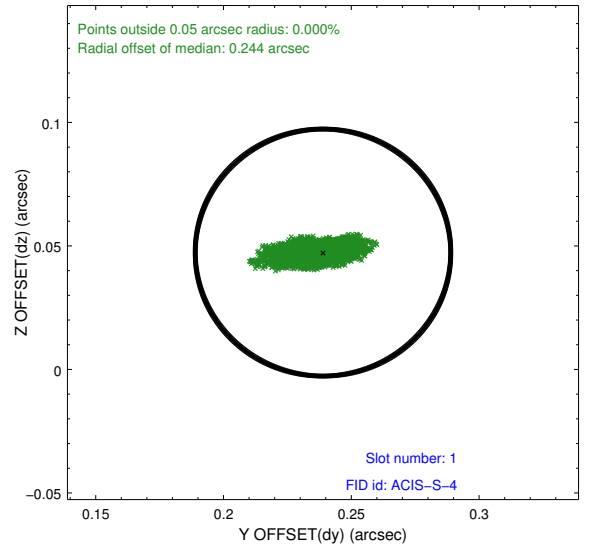
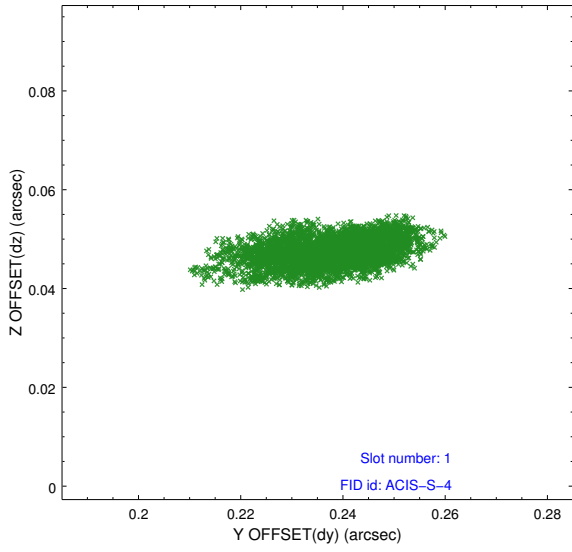


2.5 FID Slots

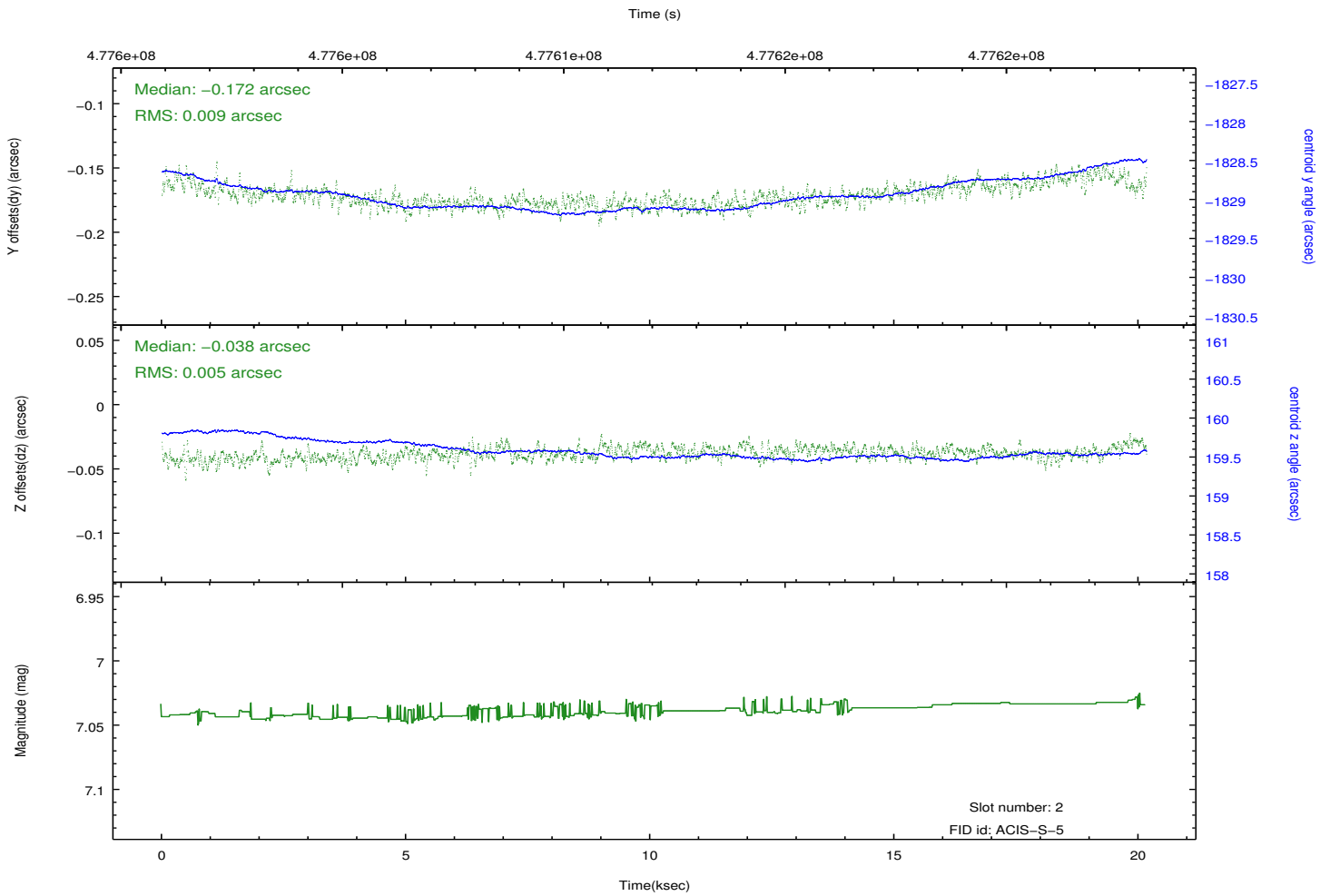
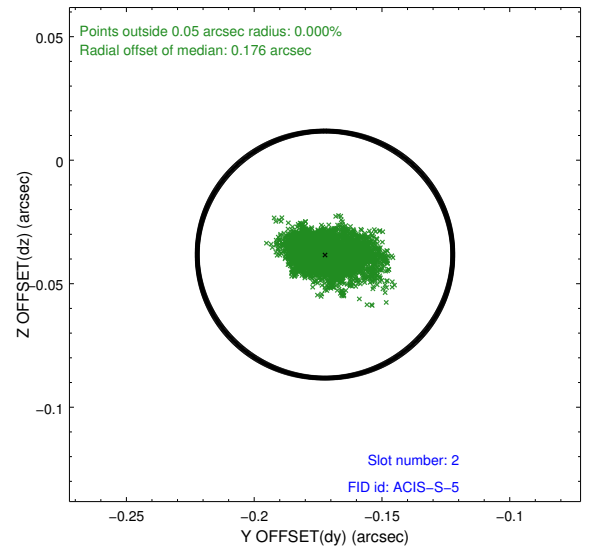
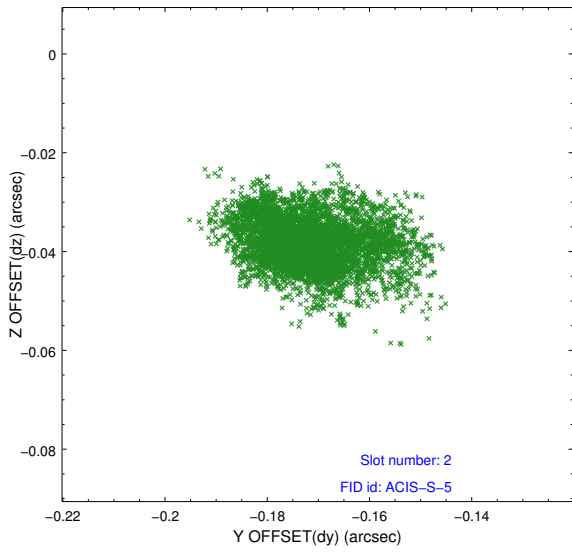
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.069998803735

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.