

V&V Reference Report

L2 ASCDS Version : 10.0.1

Observation 14944 - L2 Version 2
Chandra X-Ray Center

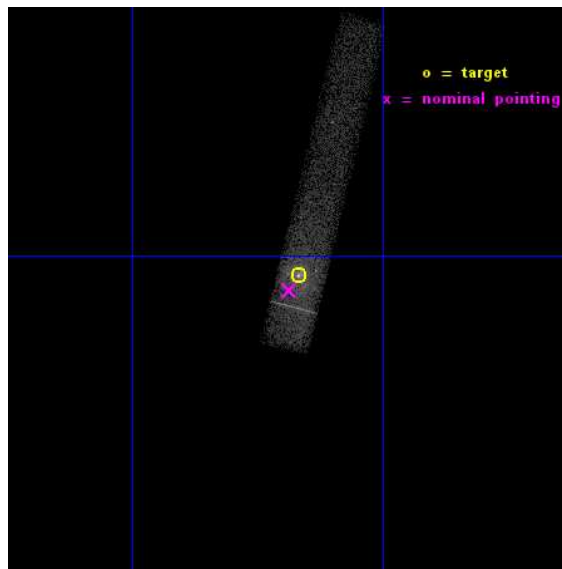
L2 Processing Date : Dec 6 2014

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1 Front

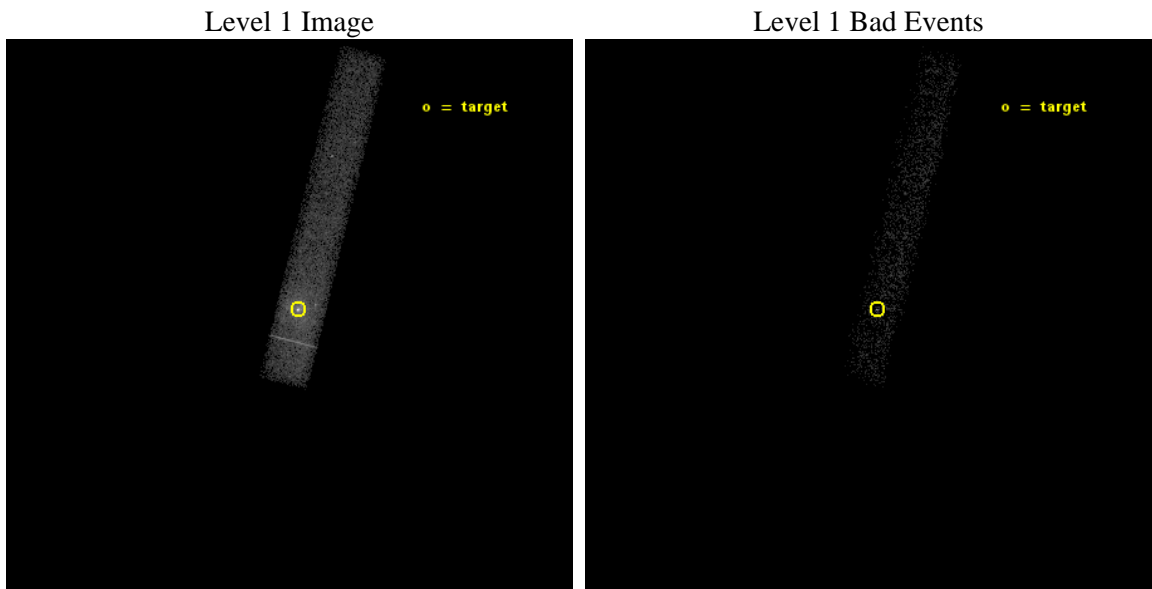
seq_num	601074	Sequence number
obs_id	14944	Observation id
title	Monitoring the Tidal Disruption of a Gas Cloud Approaching Sgr A*	
observer	Dr. Frederick Baganoff	Principal investigator
object	Sgr A*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007806	Observer's specified target Dec [deg]
ra_nom	266.42154194702	Nominal RA [deg]
dec_nom	-29.014431406067	Nominal Dec [deg]
roll_nom	284.15900796665	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20070.398803711	Sum of GTIs [s]
liveltime	18202.792312453	Livetime [s]
ontime7	20070.398803711	Sum of GTIs [s]
l2events	27569	Number of level 2 events



2 OBI

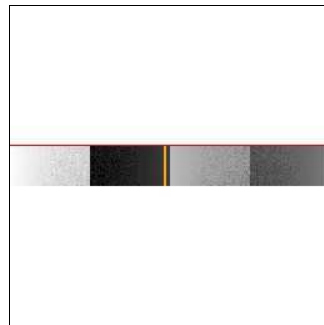
2.1 OBI

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	10.3.1	Processing system revision	ontime	20070.398803711	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	20070.398803711	Sum of GTIs [s]
date	2014-12-06T22:10:52	Date and time of file creation	l1events	37742	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

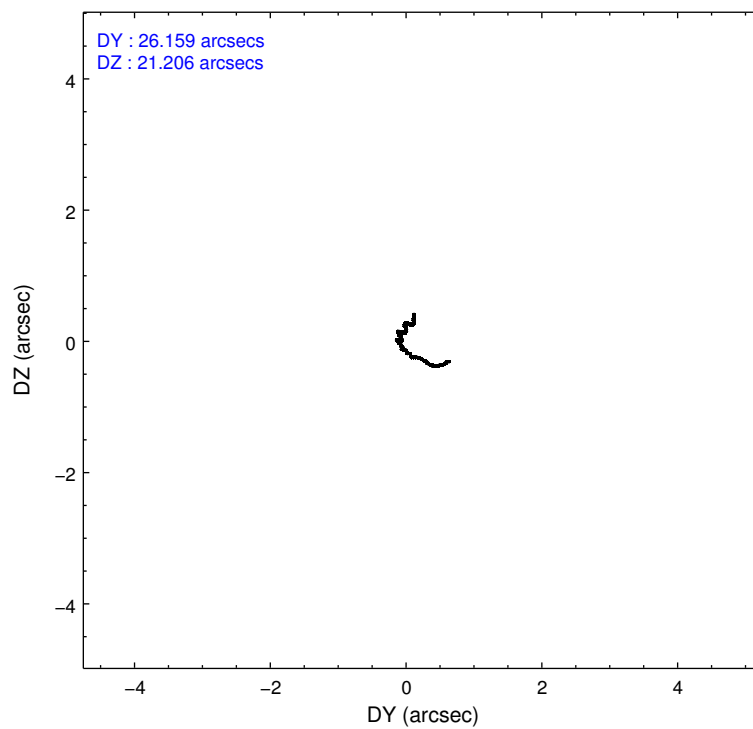
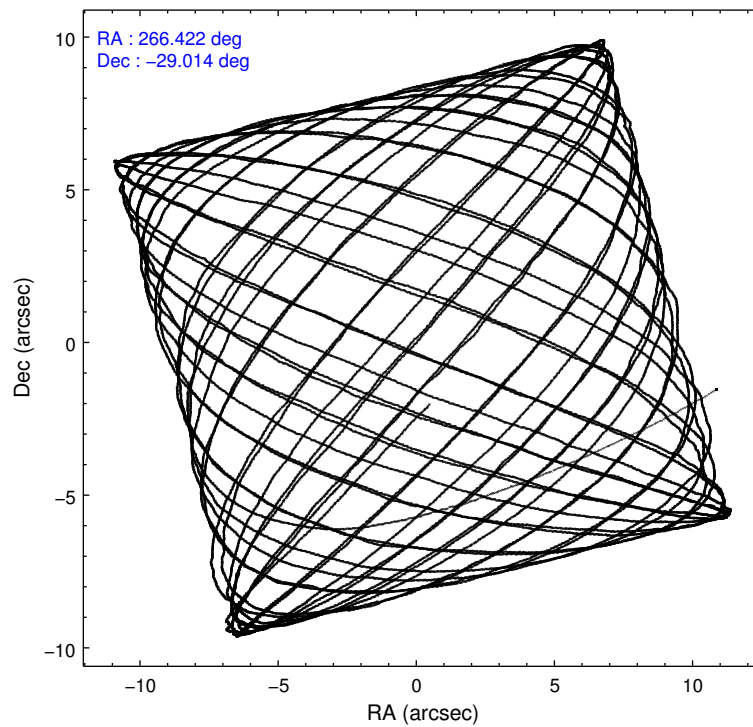
	ccd 7
level 1 events	37742
rejected events	9696
rejected %	25%

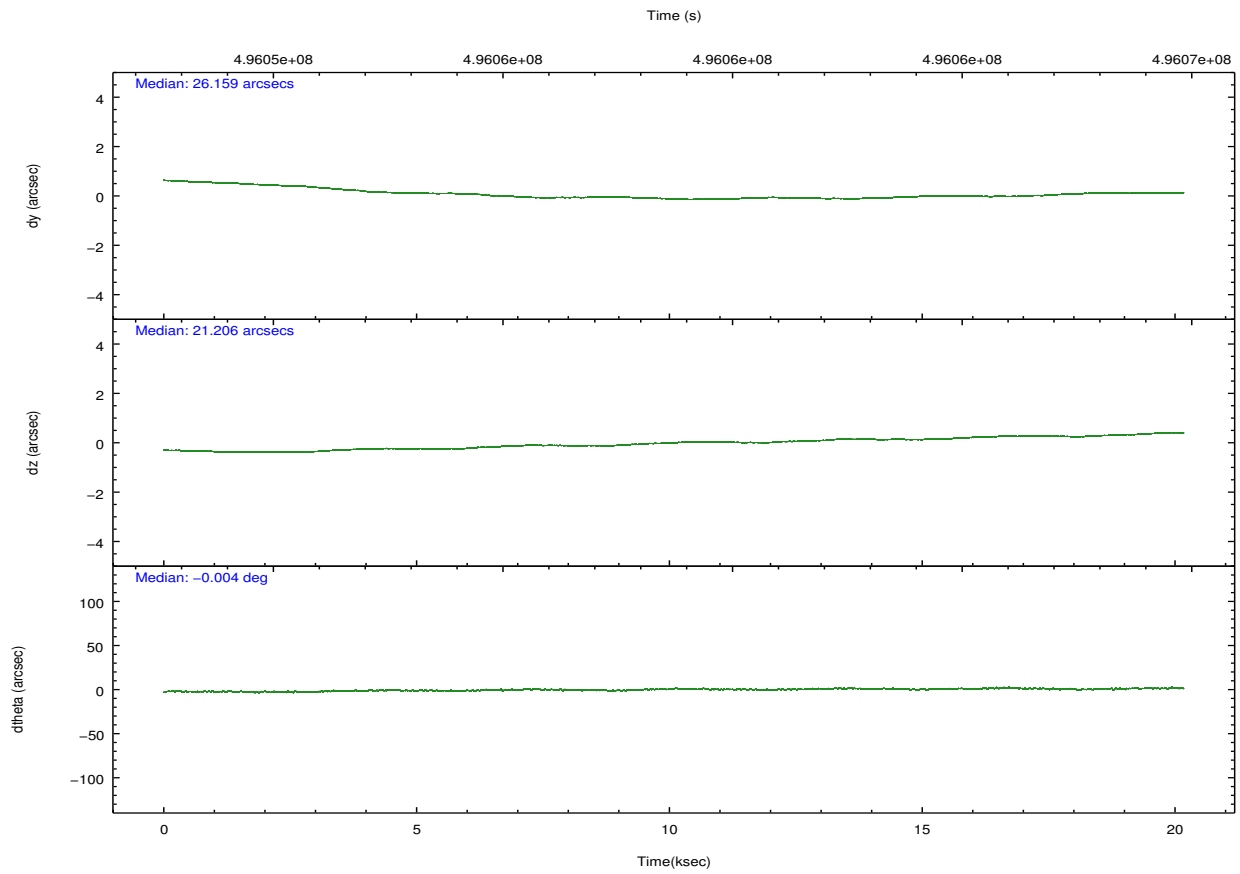
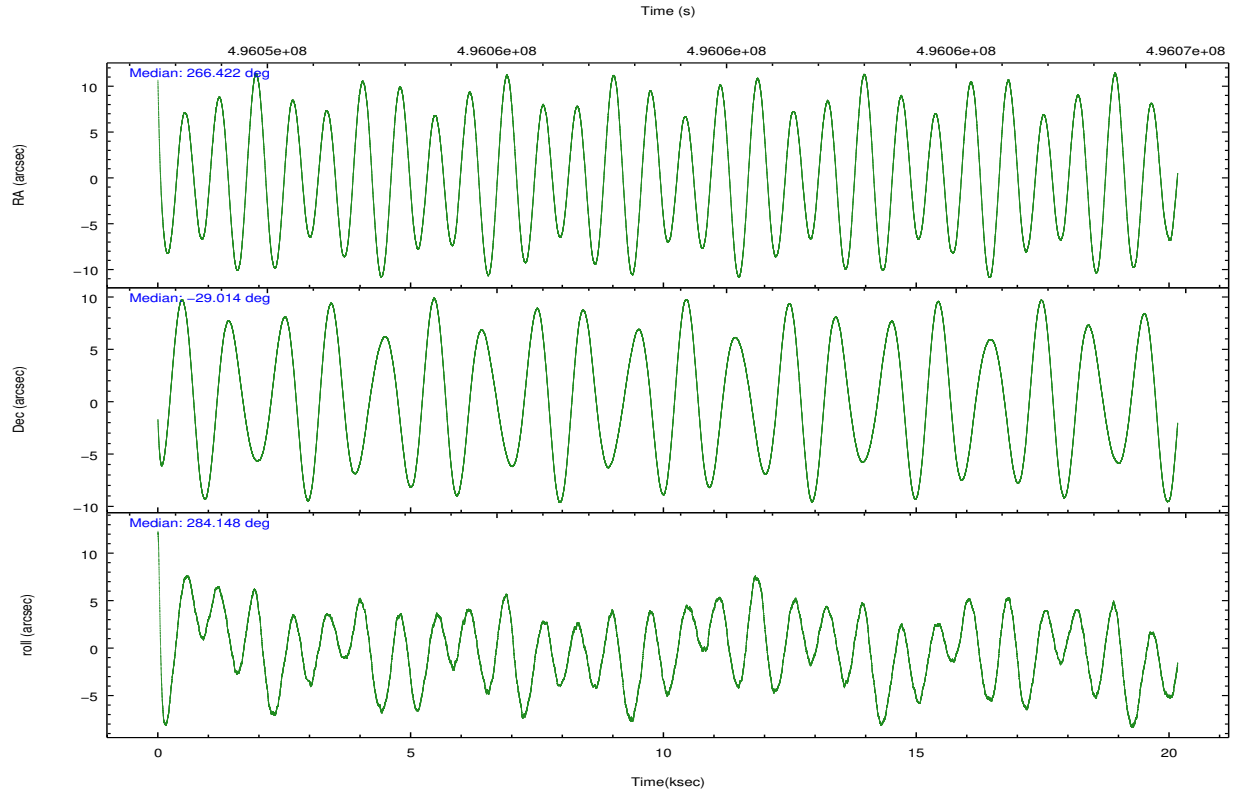
	ccd 7
grade 0 events	4641
	12%
grade 1 events	36
	0%
grade 2 events	6209
	16%
grade 3 events	3197
	8%
grade 4 events	3092
	8%
grade 5 events	2026
	5%
grade 6 events	10907
	28%
grade 7 events	7634
	20%

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	266.399480	266.4215419470237	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-28.995060	-29.0144314060673	Subarray start row	449	449
[deg] Pointing Roll	283.991673	284.1590079666515	Subarray row count	128	128
[s] Window start time (MET)	495590467.184000	495590467.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	496454467.184000	496454467.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	496048811.184000	496047776.69539			
Observation start date	2013-09-20T07:19:04	2013-09-20T07:02:56			
[s] Observation end time (MET)	496068811.184000	496070290.30912			
Observation end date	2013-09-20T12:52:24	2013-09-20T13:18:10			
Read mode	TIMED	TIMED			

2.3 Aspect





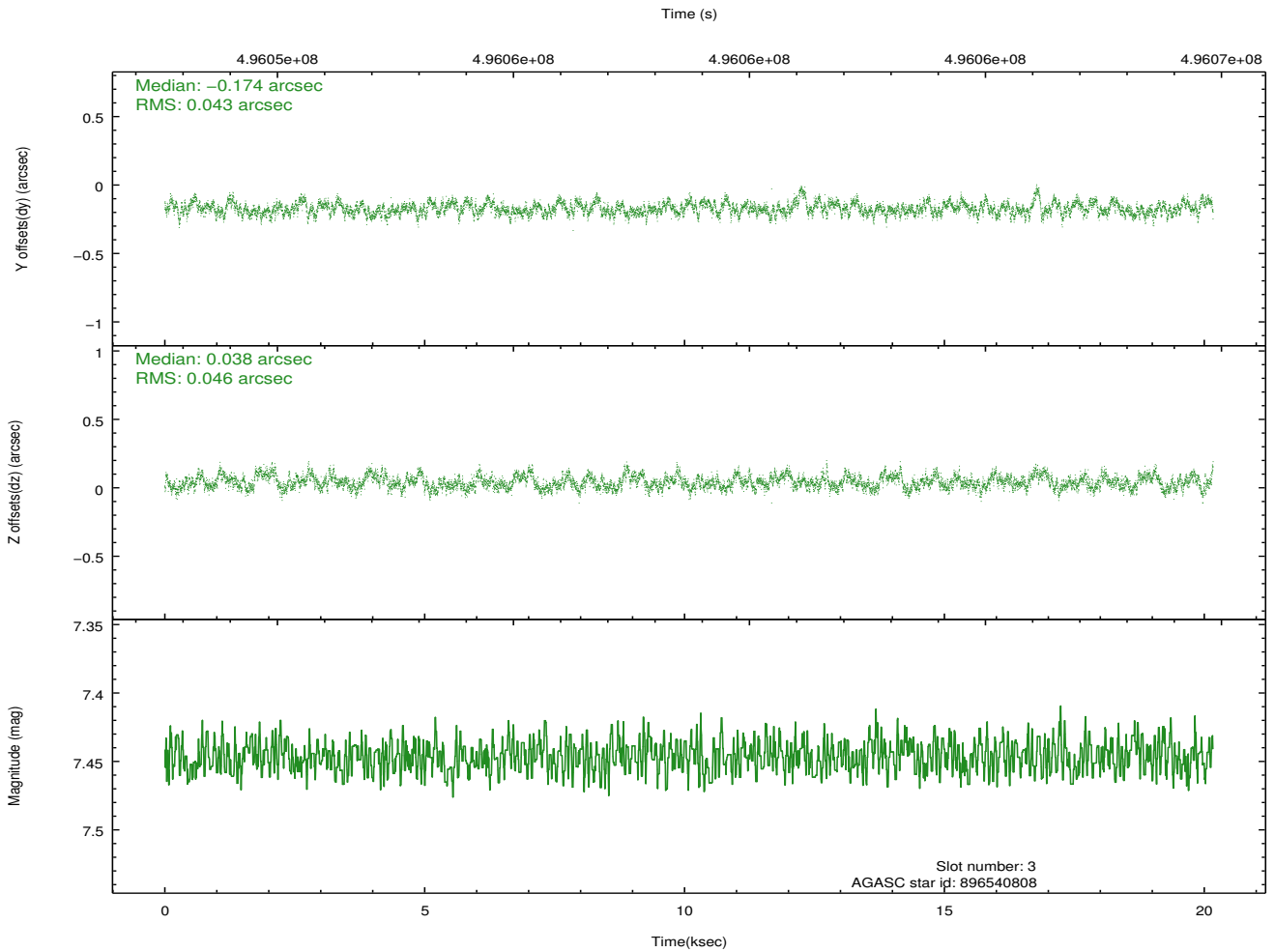
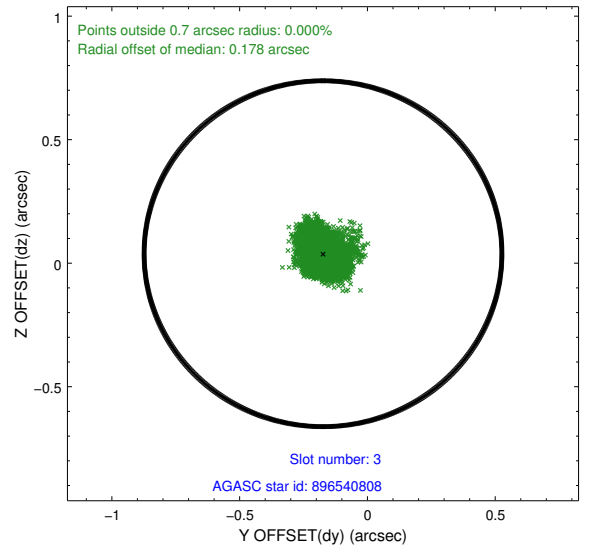
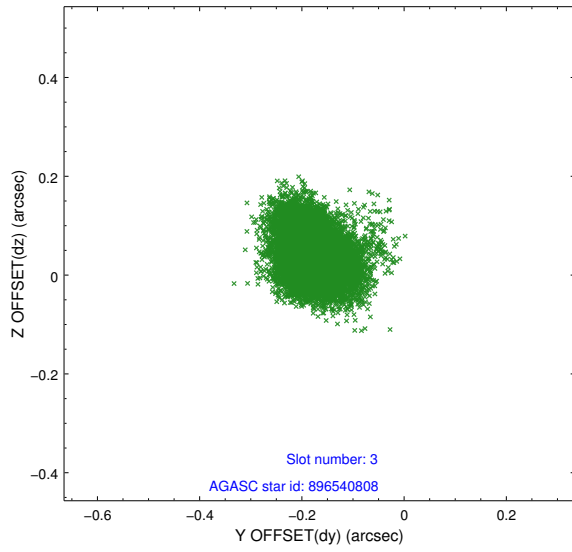
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	4920	-0.180	-0.020	0.012	0.019	0.000000	0.000000	-779.68	-1742.75
1	FID		ACIS-S-4	7.06	4920	0.344	0.092	0.013	0.028	0.000000	0.000000	2134.02	165.67
2	FID		ACIS-S-5	7.08	4920	-0.197	-0.063	0.011	0.023	0.000000	0.000000	-1832.32	159.37
3	GUIDE	used	896540808	7.45	9839	-0.174	0.038	0.066	0.108	265.985401	-29.308604	783.74	-1534.41
4	GUIDE	used	896541360	7.71	9837	-0.084	-0.413	0.075	0.126	266.684478	-29.453744	1819.64	467.36
5	GUIDE	used	896541576	8.20	9838	-0.049	0.020	0.079	0.130	267.051055	-28.762912	-308.19	2196.13
6	GUIDE	used	896403520	8.98	9664	0.477	0.281	0.105	0.173	265.626481	-28.748780	-1441.26	-2154.57
7	GUIDE	used	896538840	8.91	9779	-0.166	0.081	0.108	0.173	266.920426	-28.466925	-1441.86	2058.34

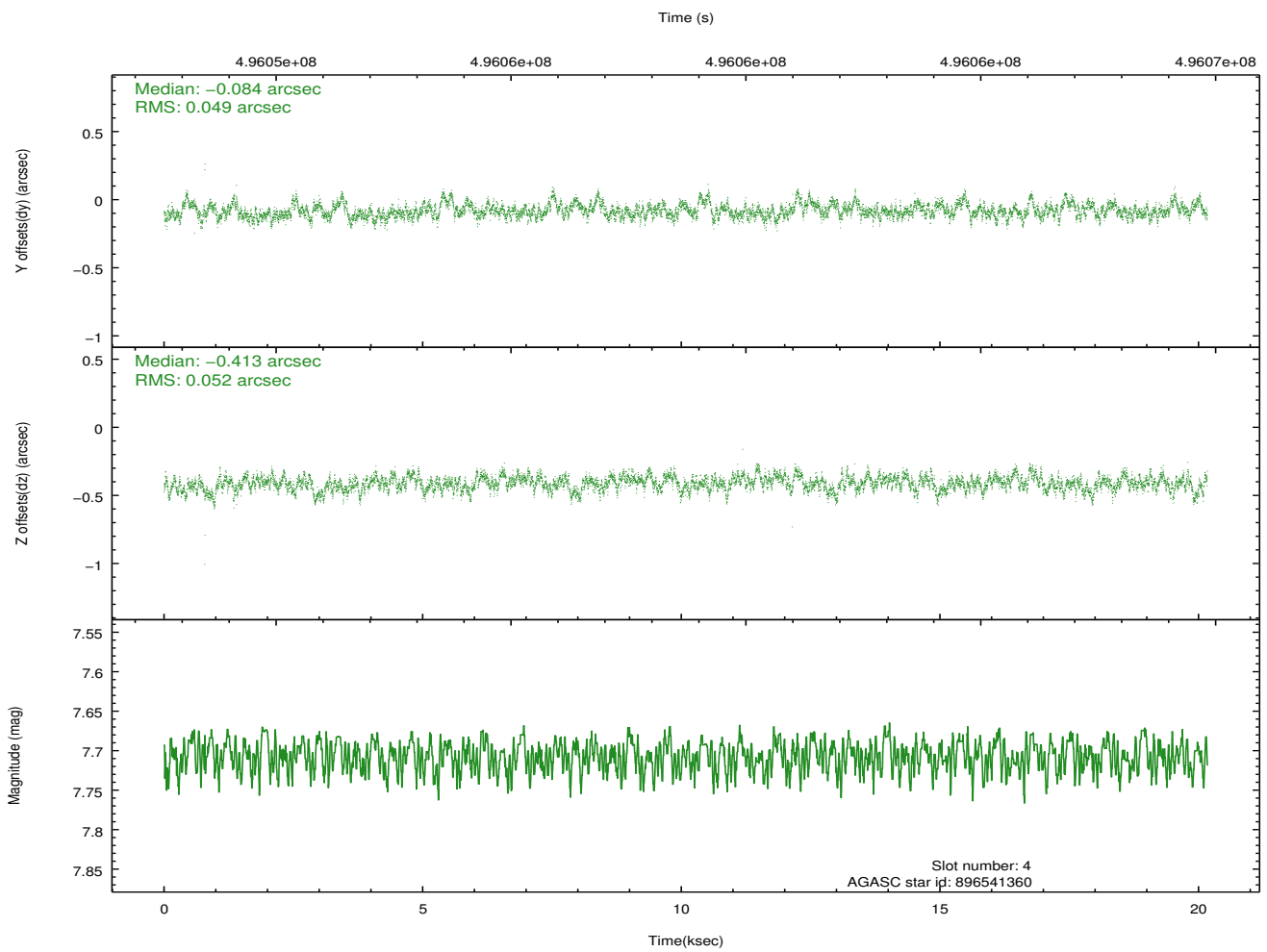
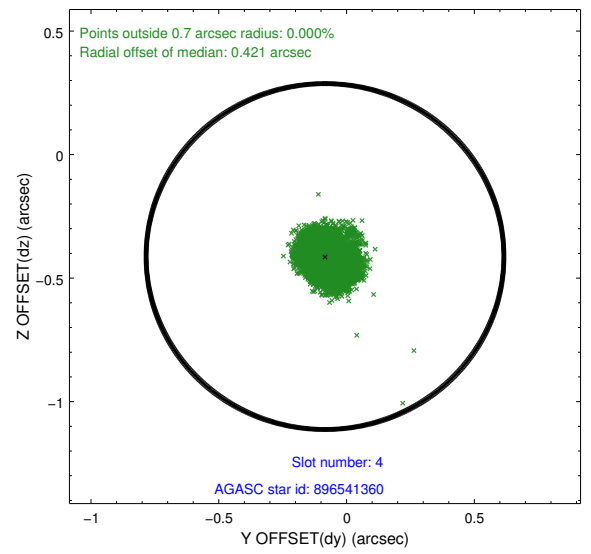
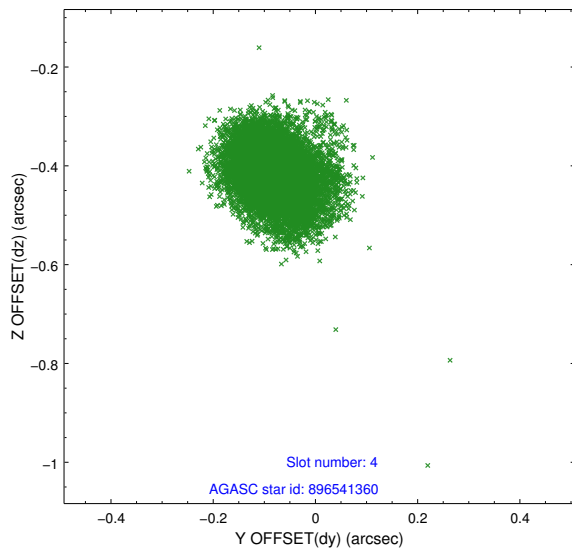
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2.4 Star Slots

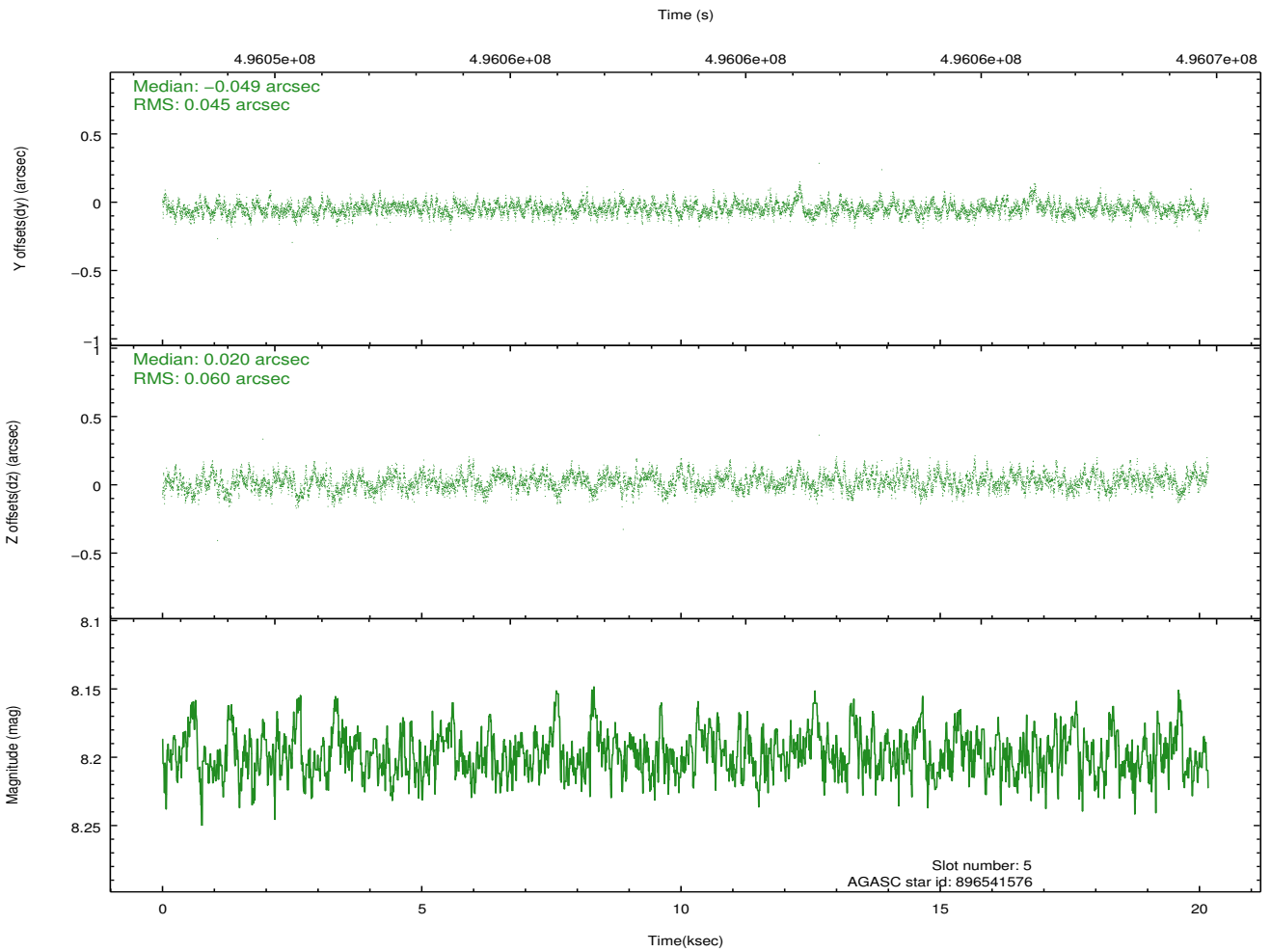
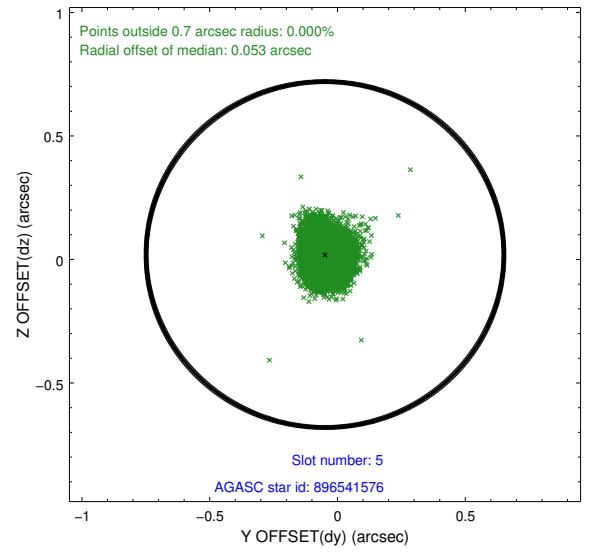
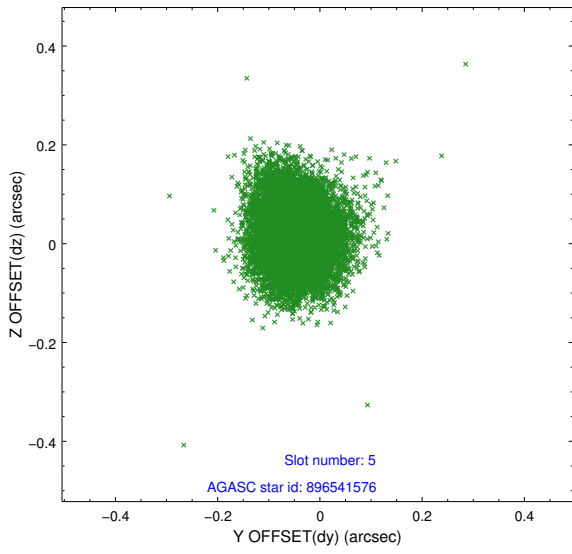
2.4.1 Slot 3



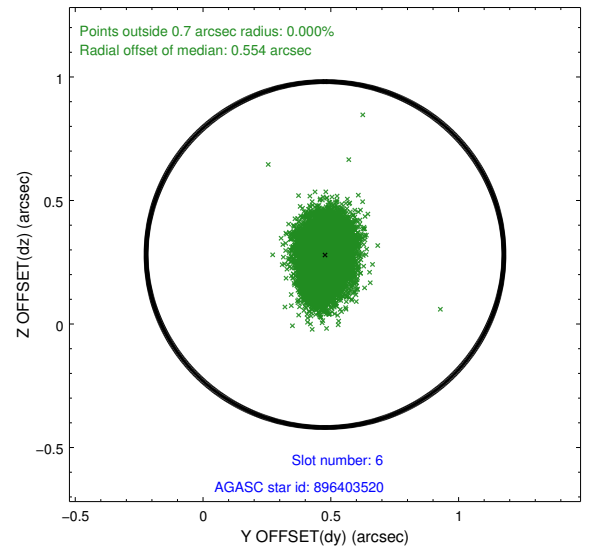
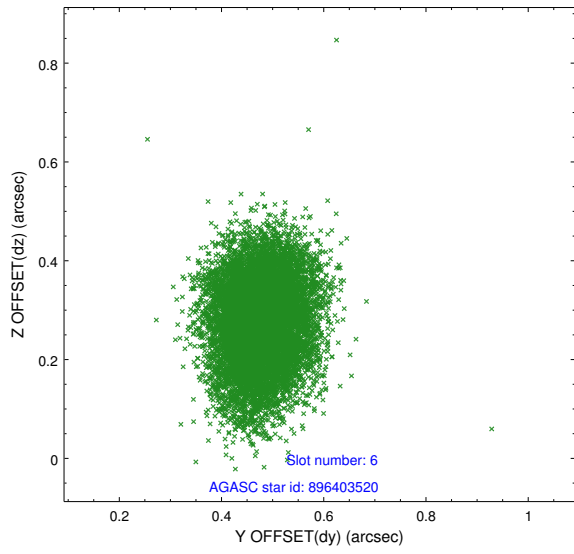
2.4.2 Slot 4



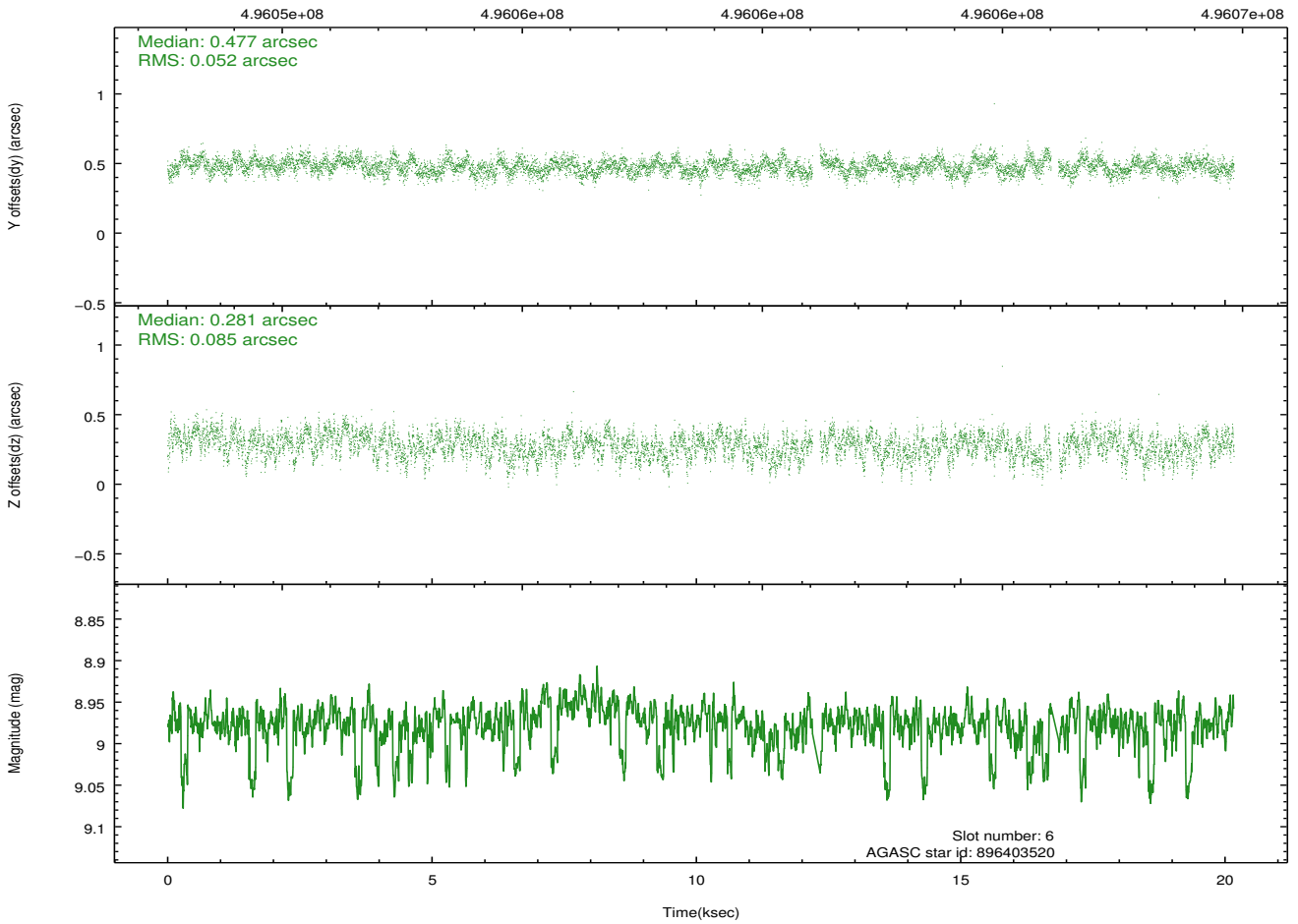
2.4.3 Slot 5



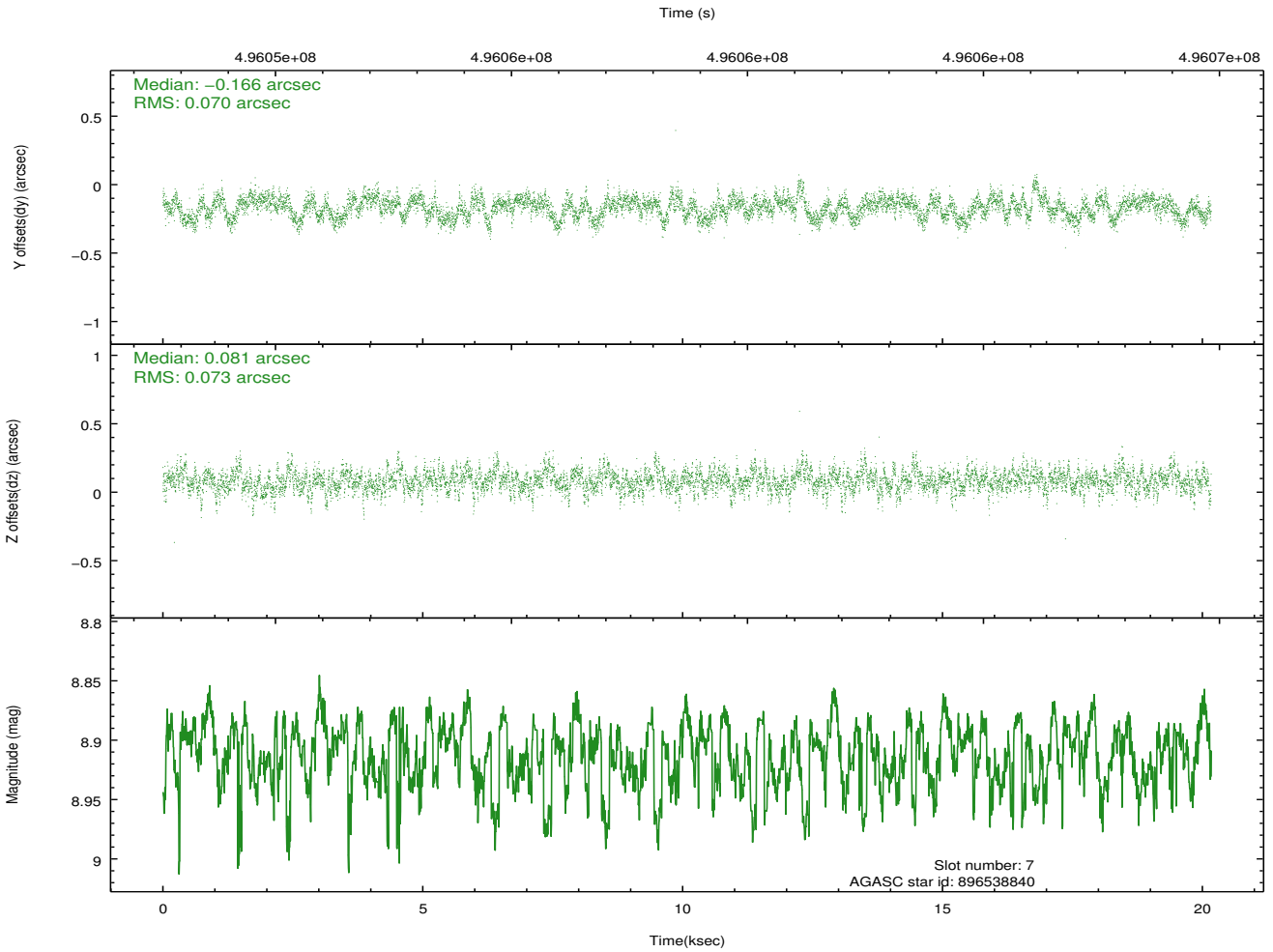
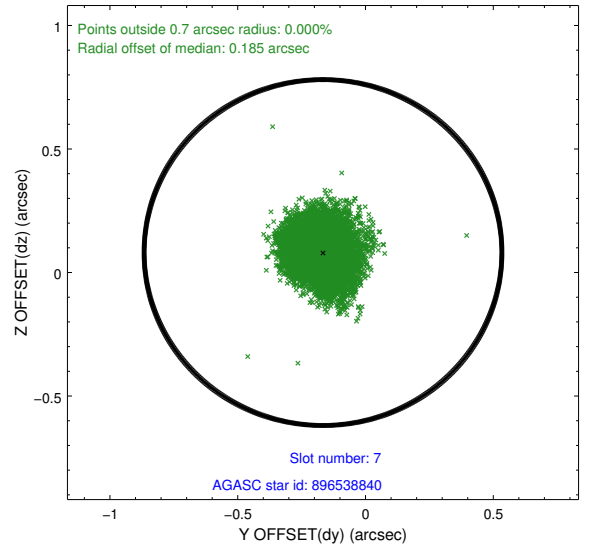
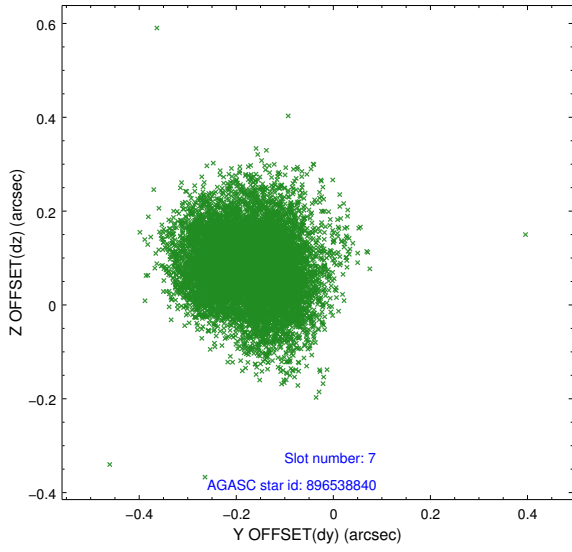
2.4.4 Slot 6



Time (s)

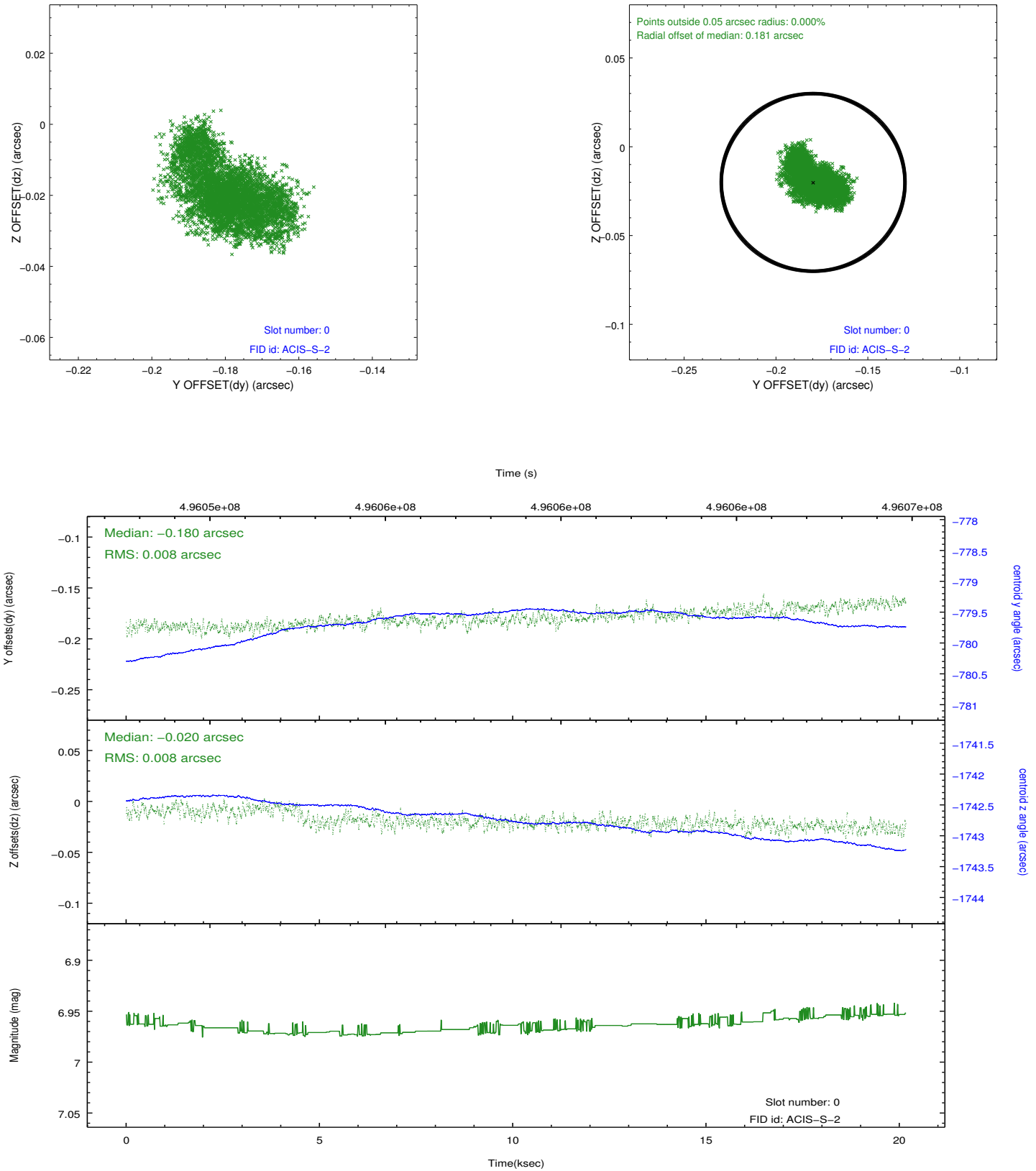


2.4.5 Slot 7

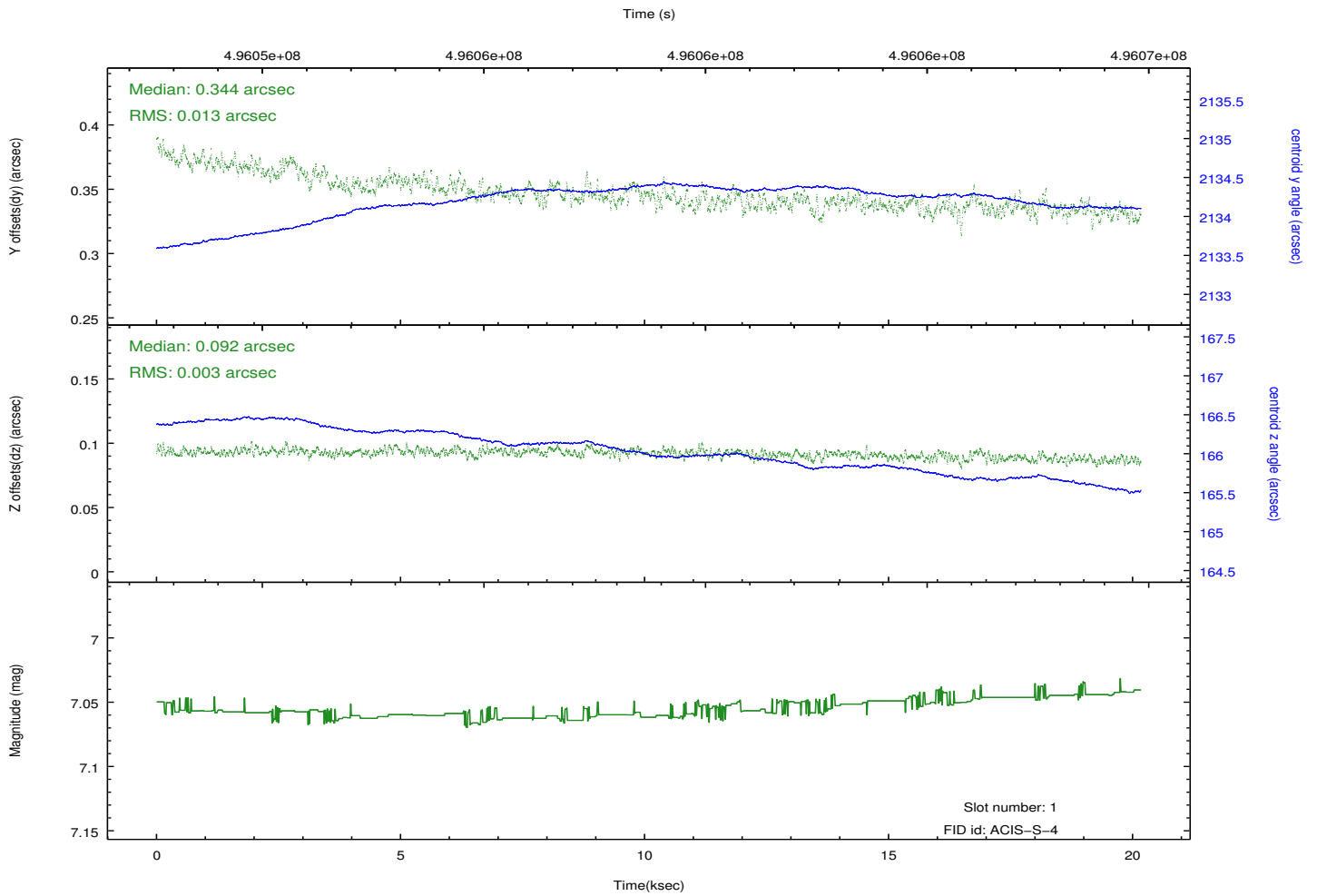
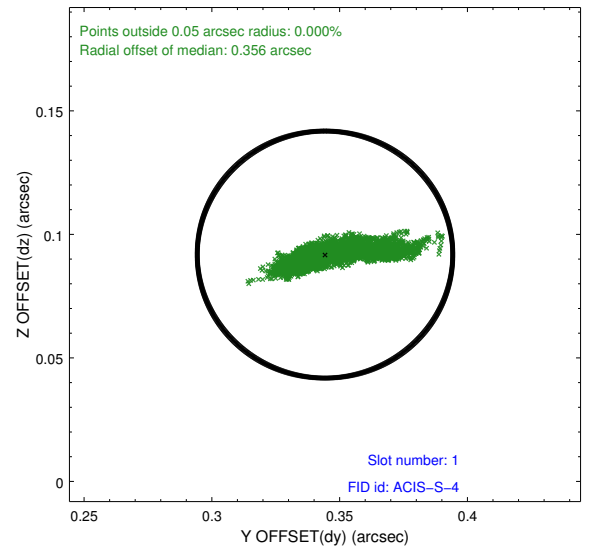
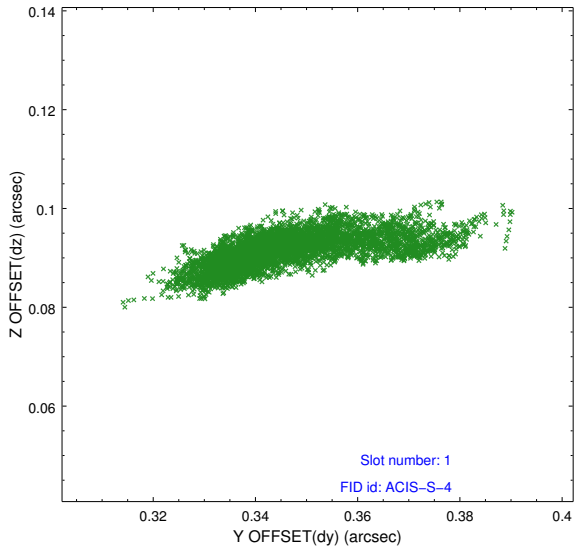


2.5 FID Slots

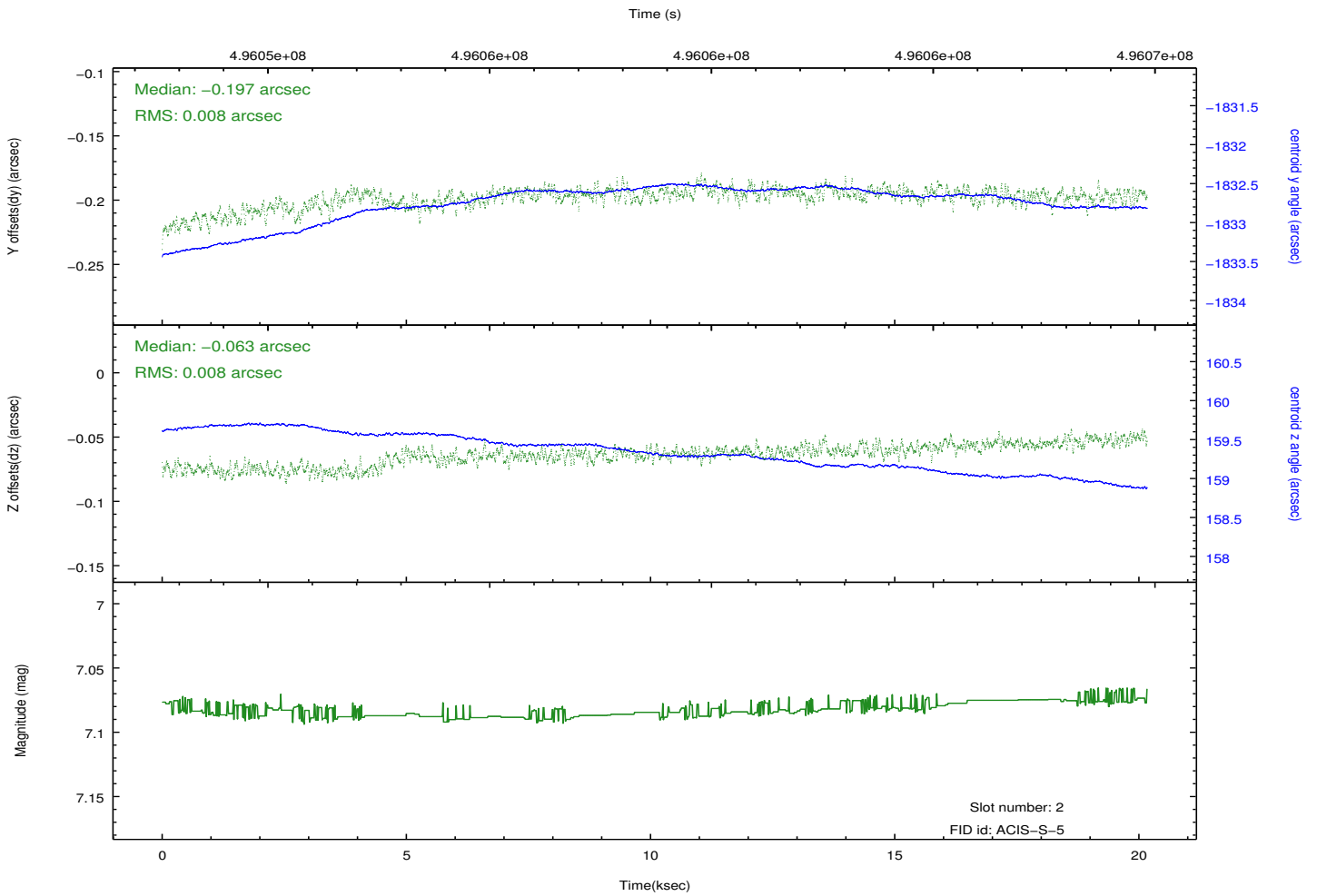
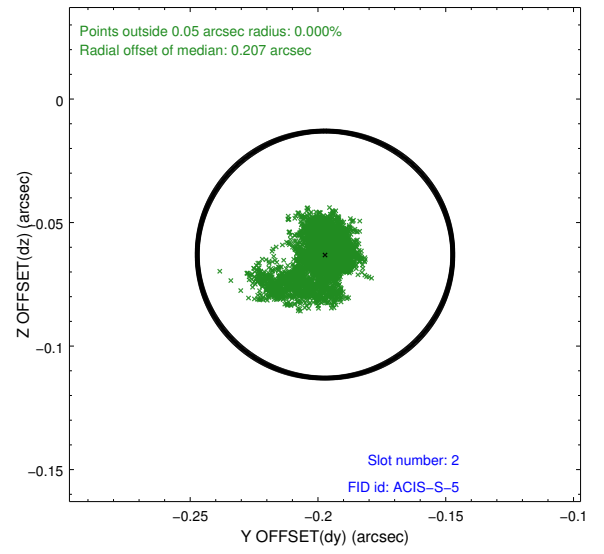
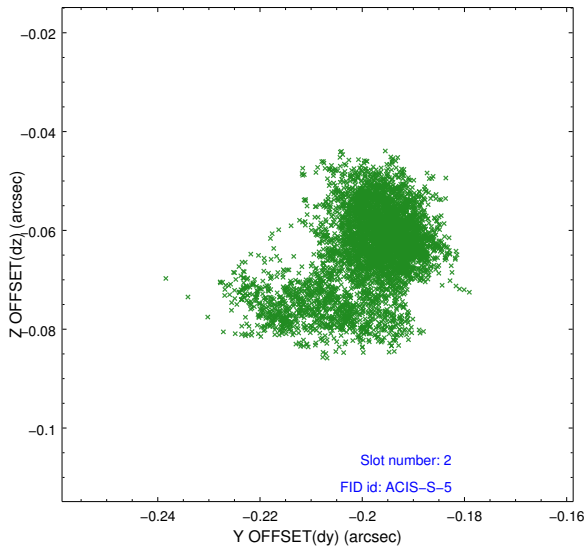
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.070398803711

A.2 Comments

Window preference met.

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.