

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15472 - L2 Version 2
Chandra X-Ray Center

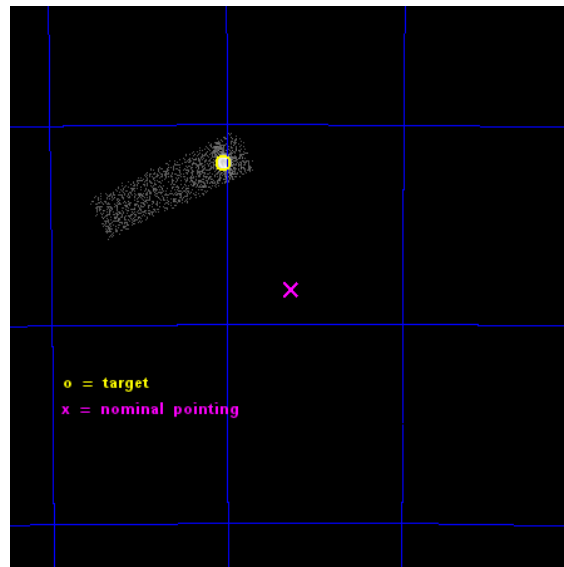
L2 Processing Date : Dec 1 2014

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1 Front

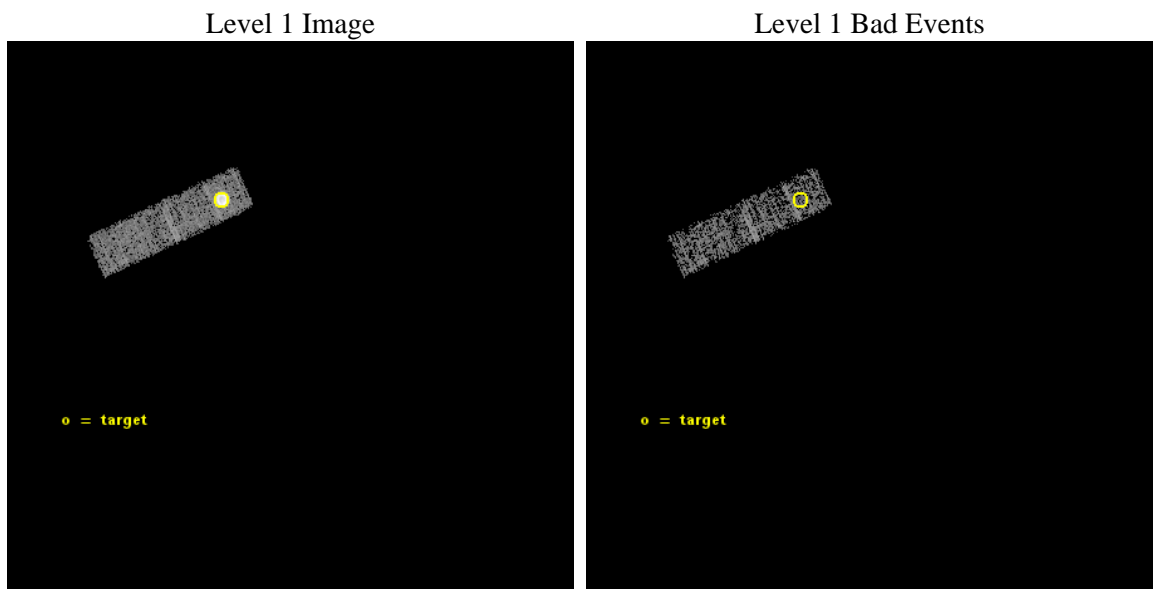
seq_num	590525	Sequence number
obs_id	15472	Observation id
title	AO-14 Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72 I3,-120,-7.0,0.5,0	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.816658208745	Nominal RA [deg]
dec_nom	-72.137887279516	Nominal Dec [deg]
roll_nom	245.524411534	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10064.800150037	Sum of GTIs [s]
livetime	9573.6708361427	Livetime [s]
ontime3	10064.800150037	Sum of GTIs [s]
l2events	18642	Number of level 2 events



2 OBI

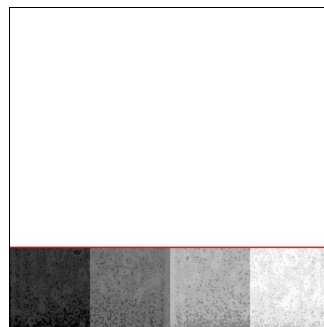
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 3



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10064.800150037	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	10064.800150037	Sum of GTIs [s]
date	2014-12-01T13:39:38	Date and time of file creation	l1events	31637	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

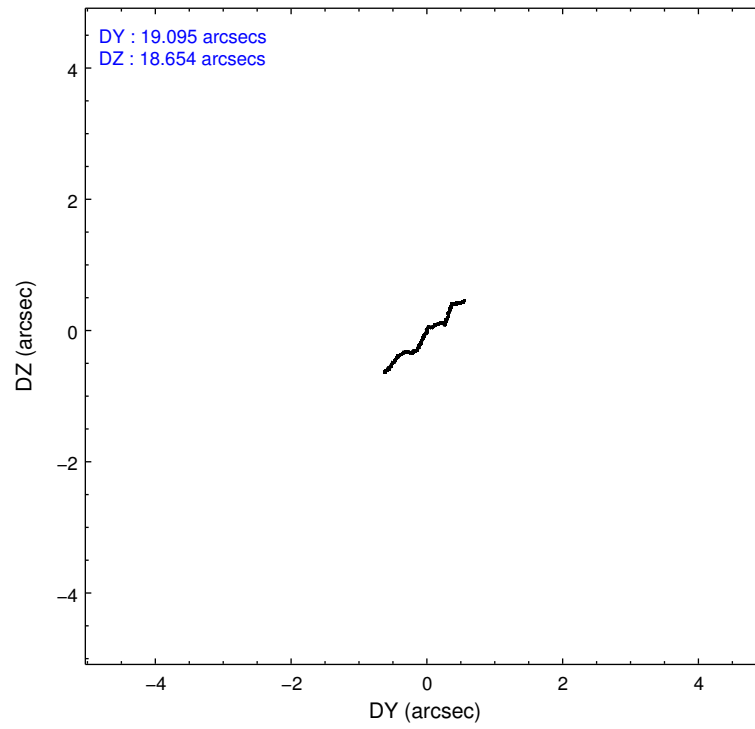
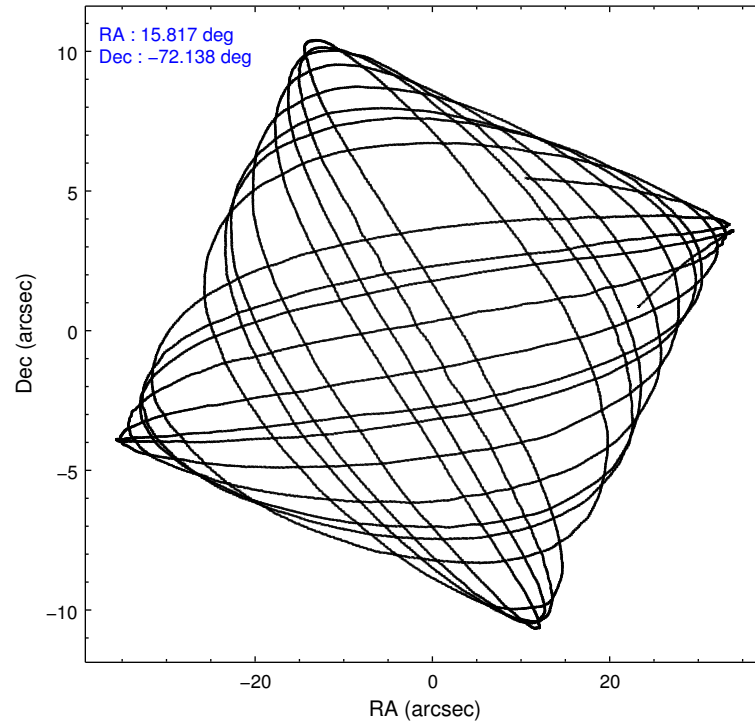
	ccd 3
level 1 events	31637
rejected events	12732
rejected %	40%

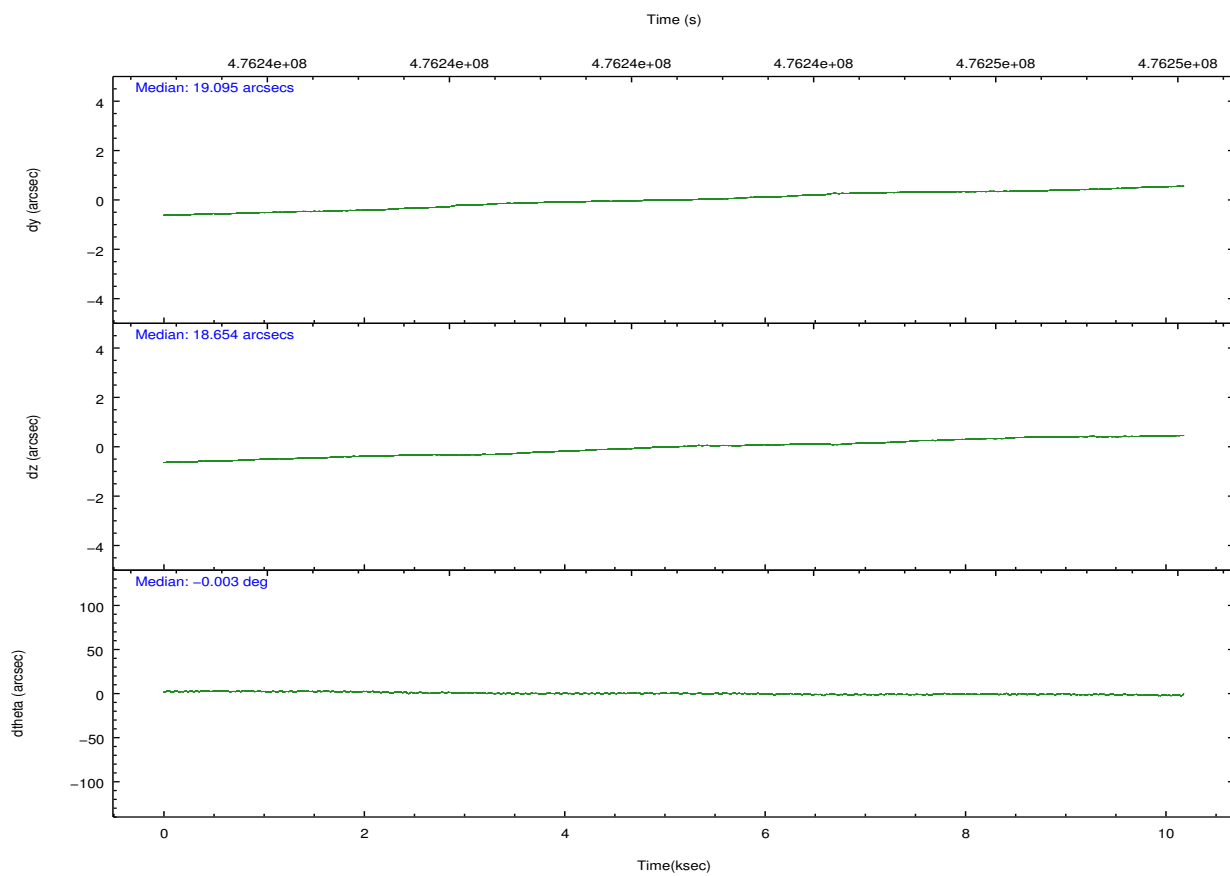
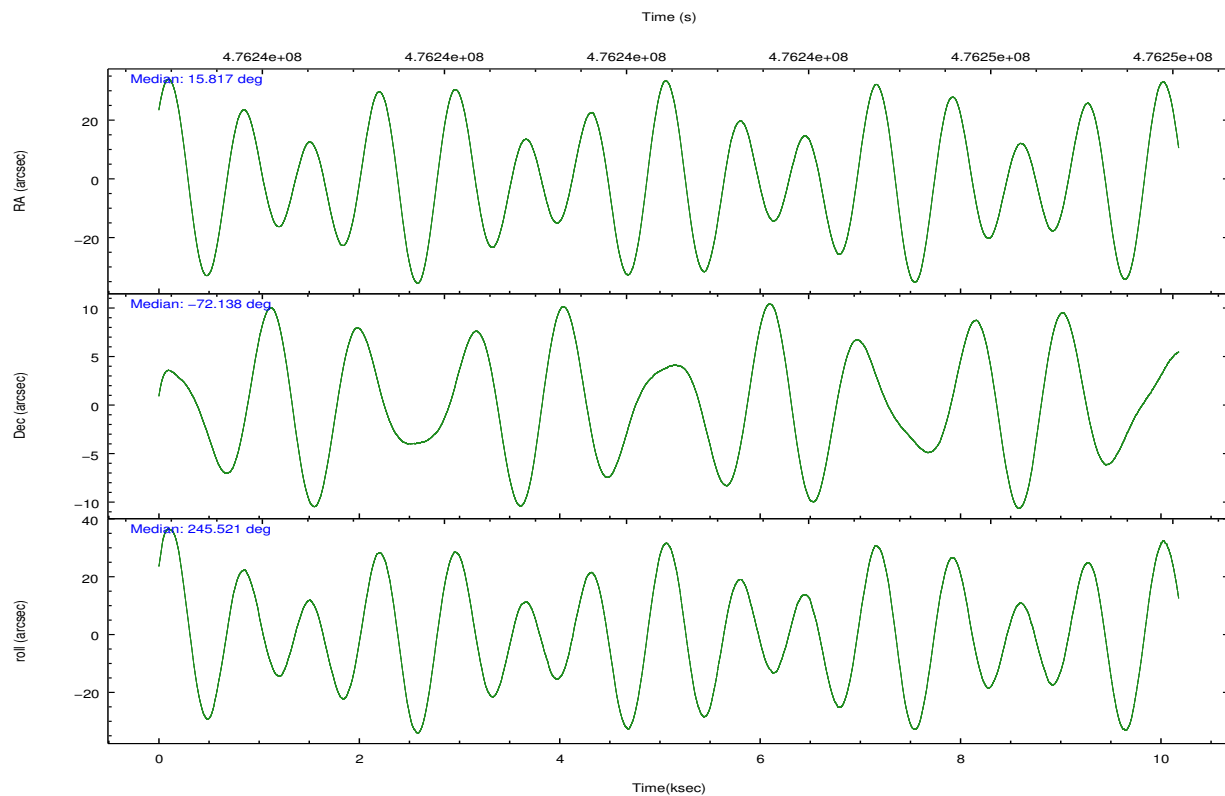
	ccd 3
grade 0 events	15517
	49%
grade 1 events	33
	0%
grade 2 events	1696
	5%
grade 3 events	623
	1%
grade 4 events	601
	1%
grade 5 events	516
	1%
grade 6 events	472
	1%
grade 7 events	12179
	38%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.807496	15.81665820874506	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-72.110539	-72.13788727951635	Subarray start row	1	1
[deg] Pointing Roll	245.307014	245.5244115339994	Subarray row count	256	256
[s] Window start time (MET)	470707267.184000	470707267.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	483667267.184000	483667267.184000	[s] Primary exposure time	0.000000	0.8
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	476237553.184000	476236758.58252			
Observation start date	2013-02-03T00:11:26	2013-02-02T23:59:18			
[s] Observation end time (MET)	476247553.184000	476248215.00814			
Observation end date	2013-02-03T02:58:06	2013-02-03T03:10:15			
Read mode	TIMED	TIMED			

2.3 Aspect



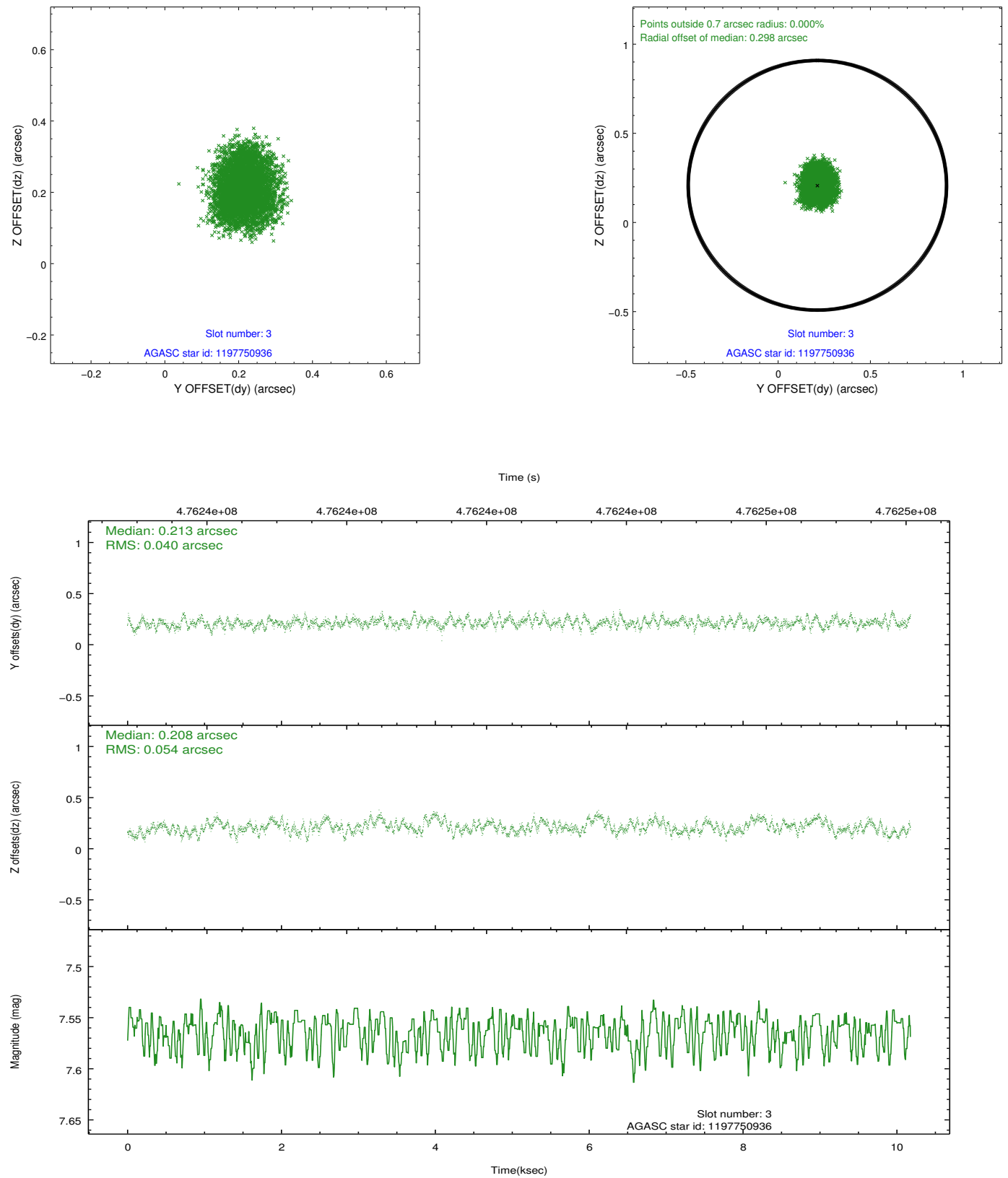


Slot Statistics

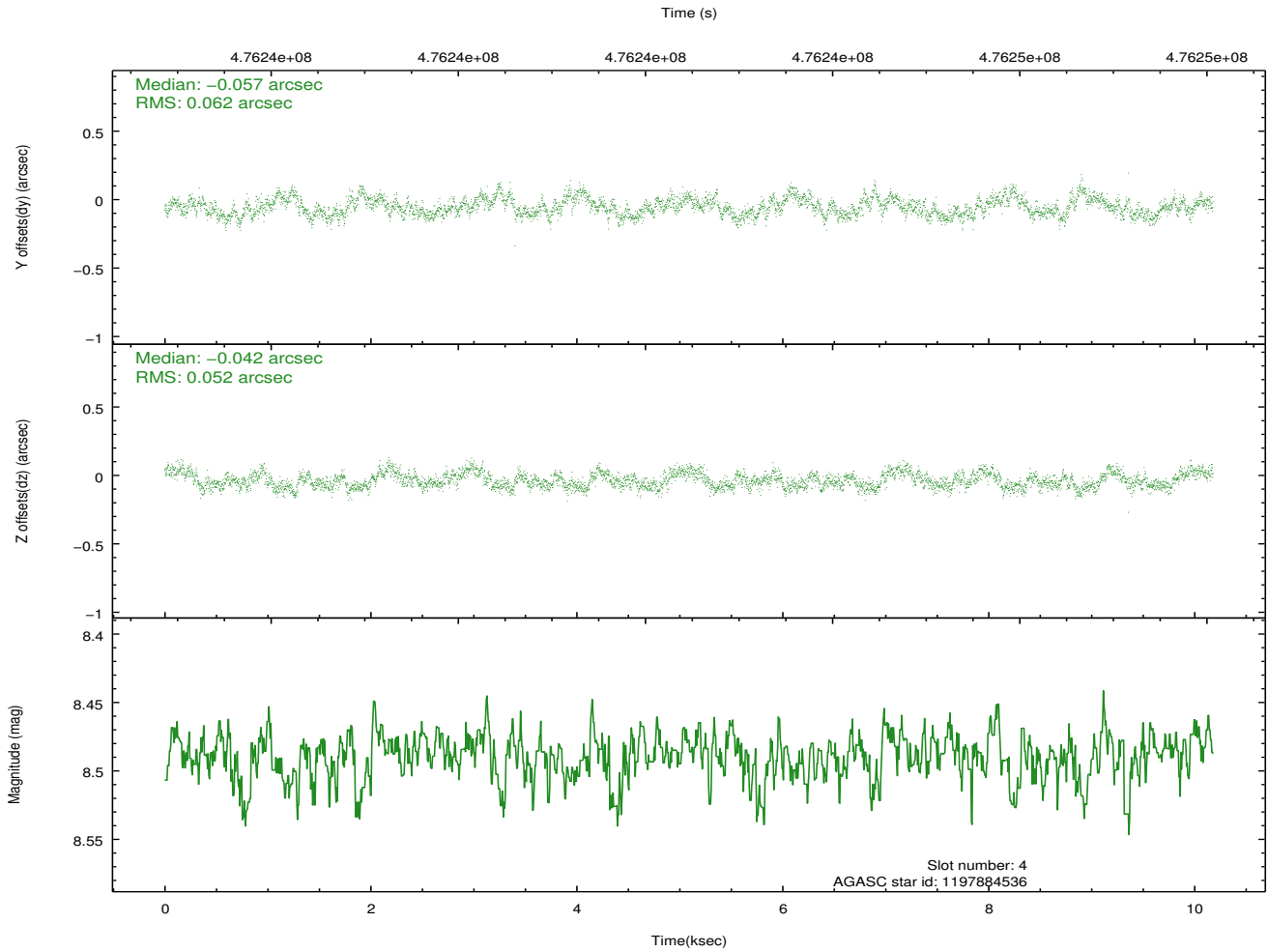
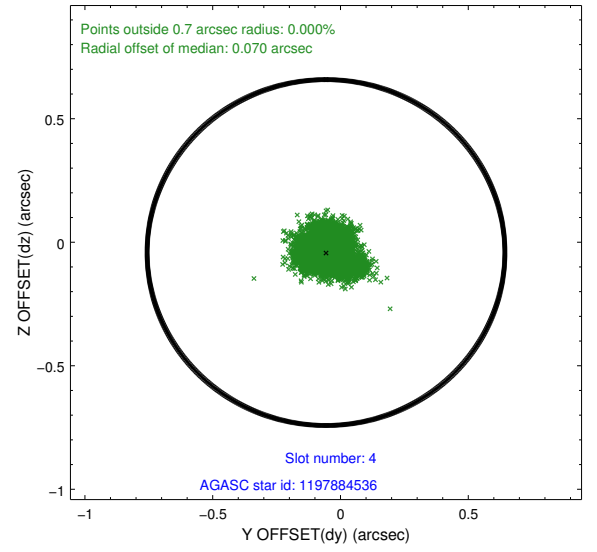
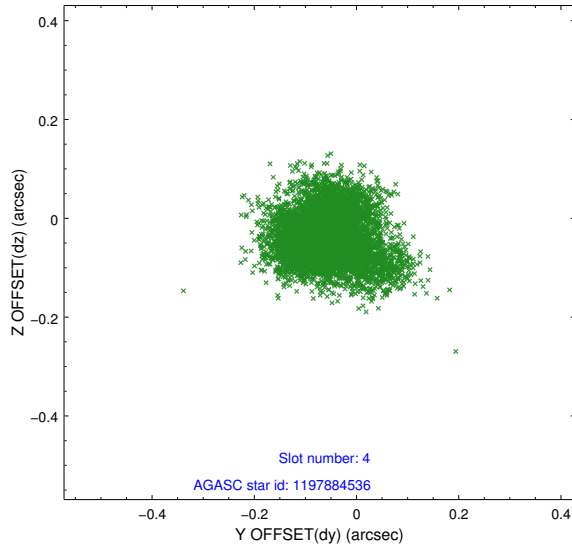
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.06	2483	0.029	0.053	0.011	0.031	0.000000	0.000000	920.30	-842.23
1	FID		ACIS-I-5	7.05	2483	-0.234	0.041	0.011	0.020	0.000000	0.000000	-1827.82	1054.94
2	FID		ACIS-I-6	7.06	2483	0.113	-0.022	0.012	0.018	0.000000	0.000000	385.32	1700.01
3	GUIDE	used	1197750936	7.56	4966	0.213	0.208	0.073	0.116	15.387940	-71.549550	-1632.68	-1276.74
4	GUIDE	used	1197884536	8.49	4963	-0.057	-0.042	0.087	0.137	17.160729	-71.835289	-1519.36	972.65
5	GUIDE	used	1197884712	8.29	4965	-0.025	-0.007	0.065	0.105	16.087398	-72.252690	337.27	493.55
6	GUIDE	used	1197885104	9.35	4953	0.040	-0.124	0.095	0.158	17.845067	-72.189368	-643.55	2172.44
7	GUIDE	used	1198189696	7.37	4965	-0.172	-0.046	0.060	0.099	15.223750	-72.697522	2183.79	317.09

2.4 Star Slots

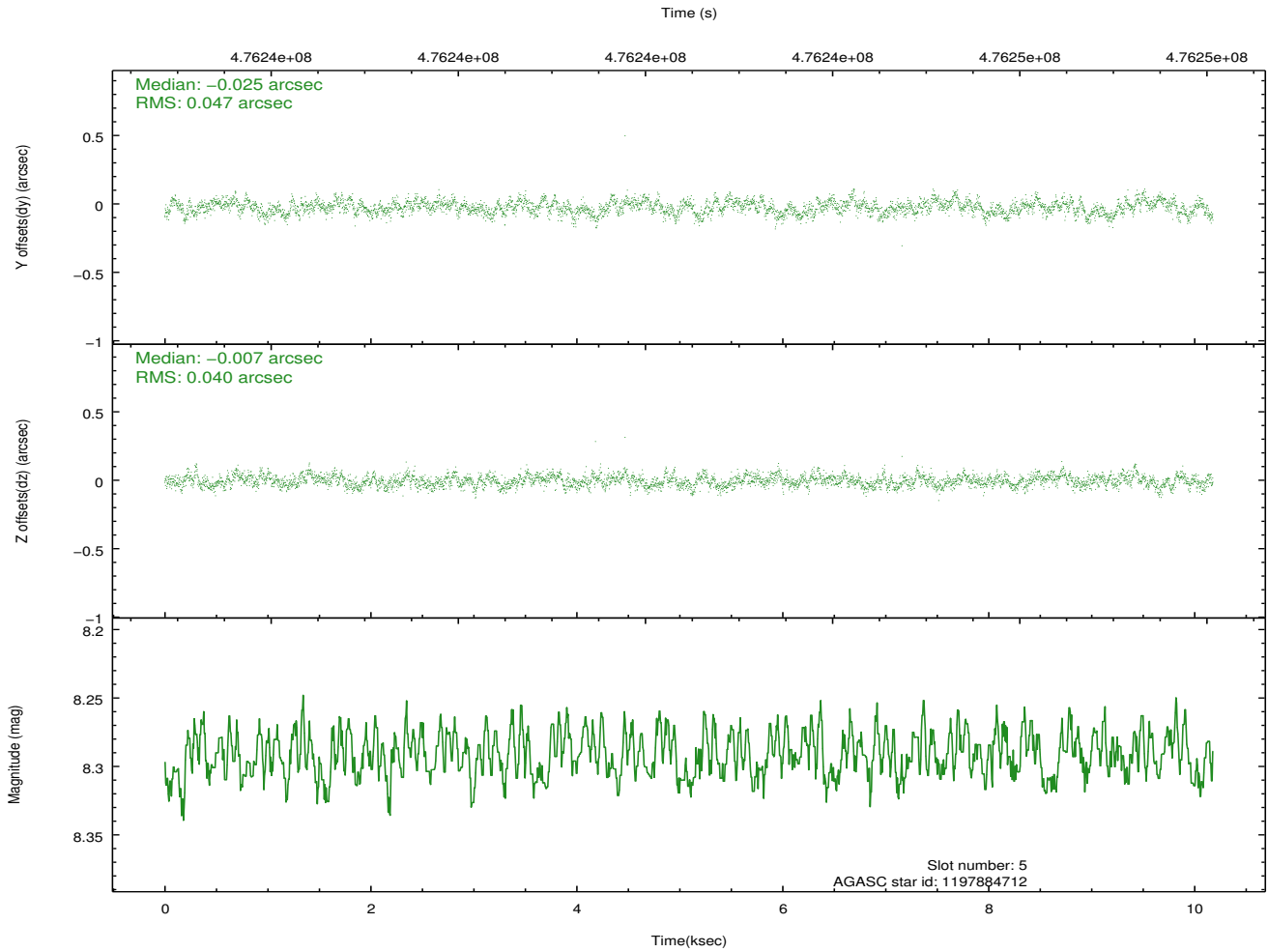
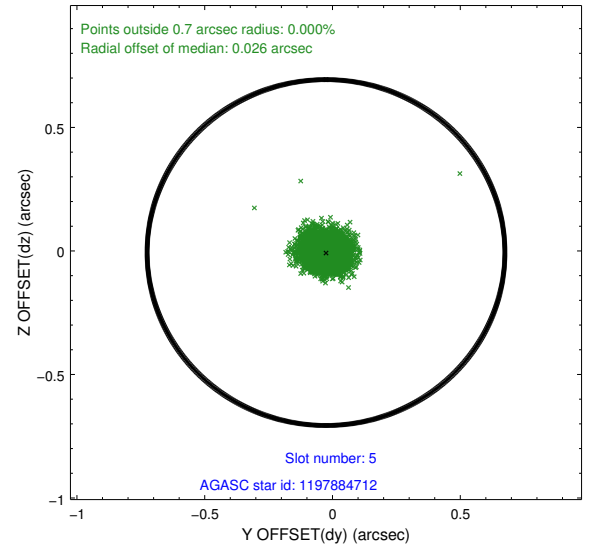
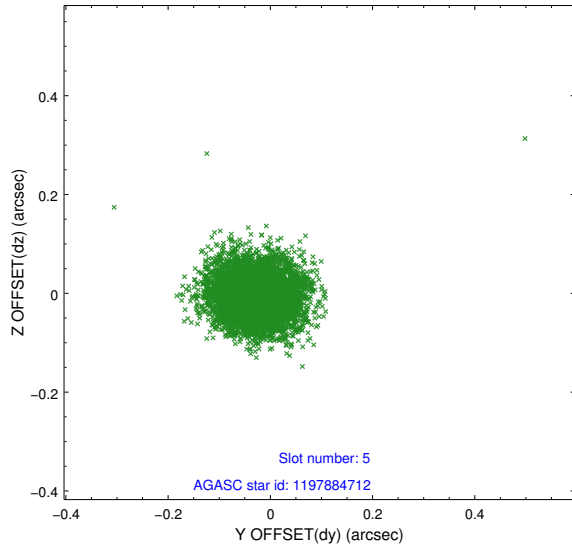
2.4.1 Slot 3



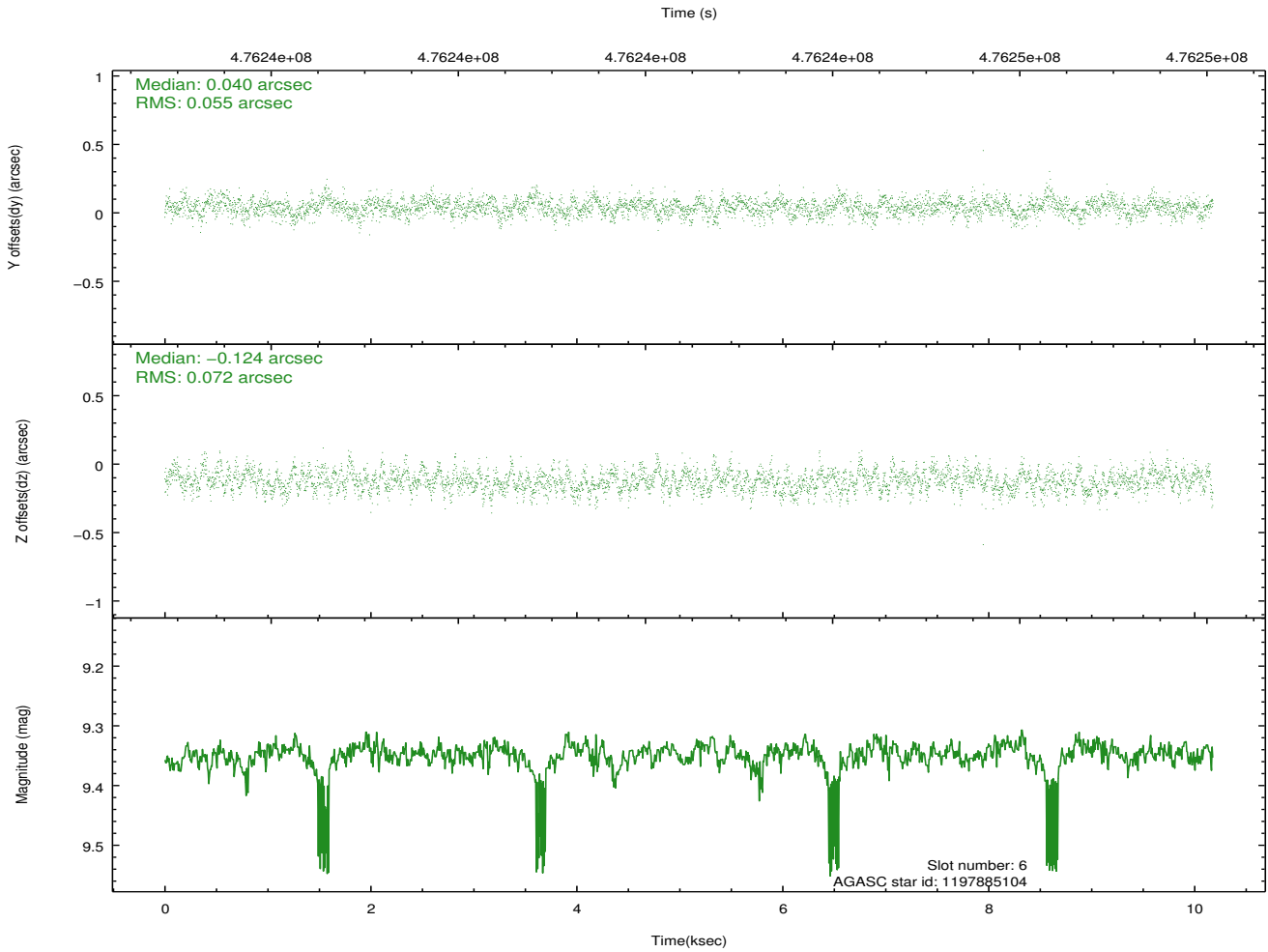
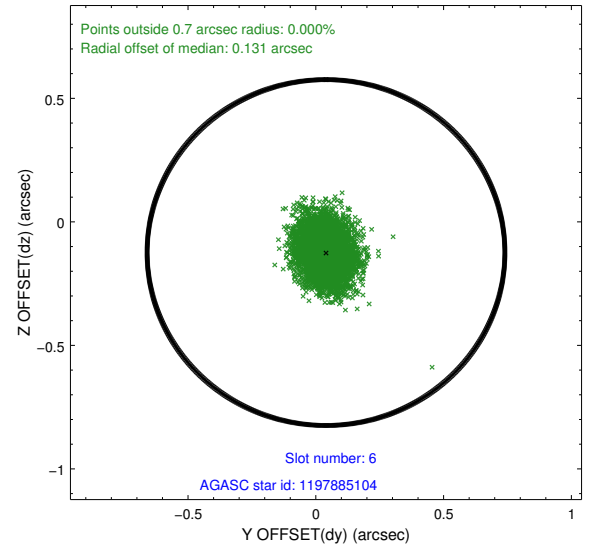
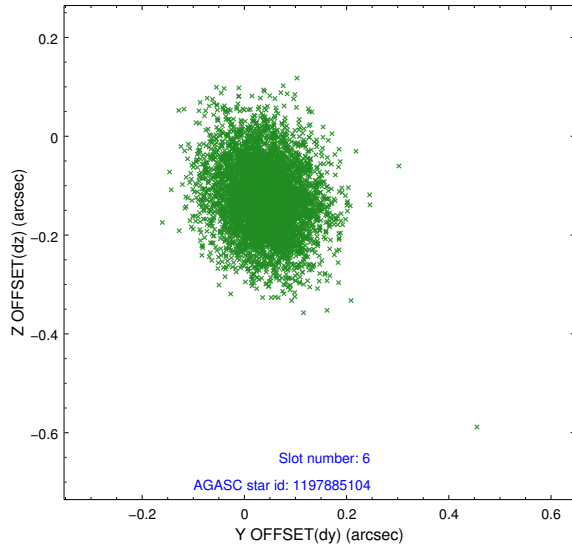
2.4.2 Slot 4



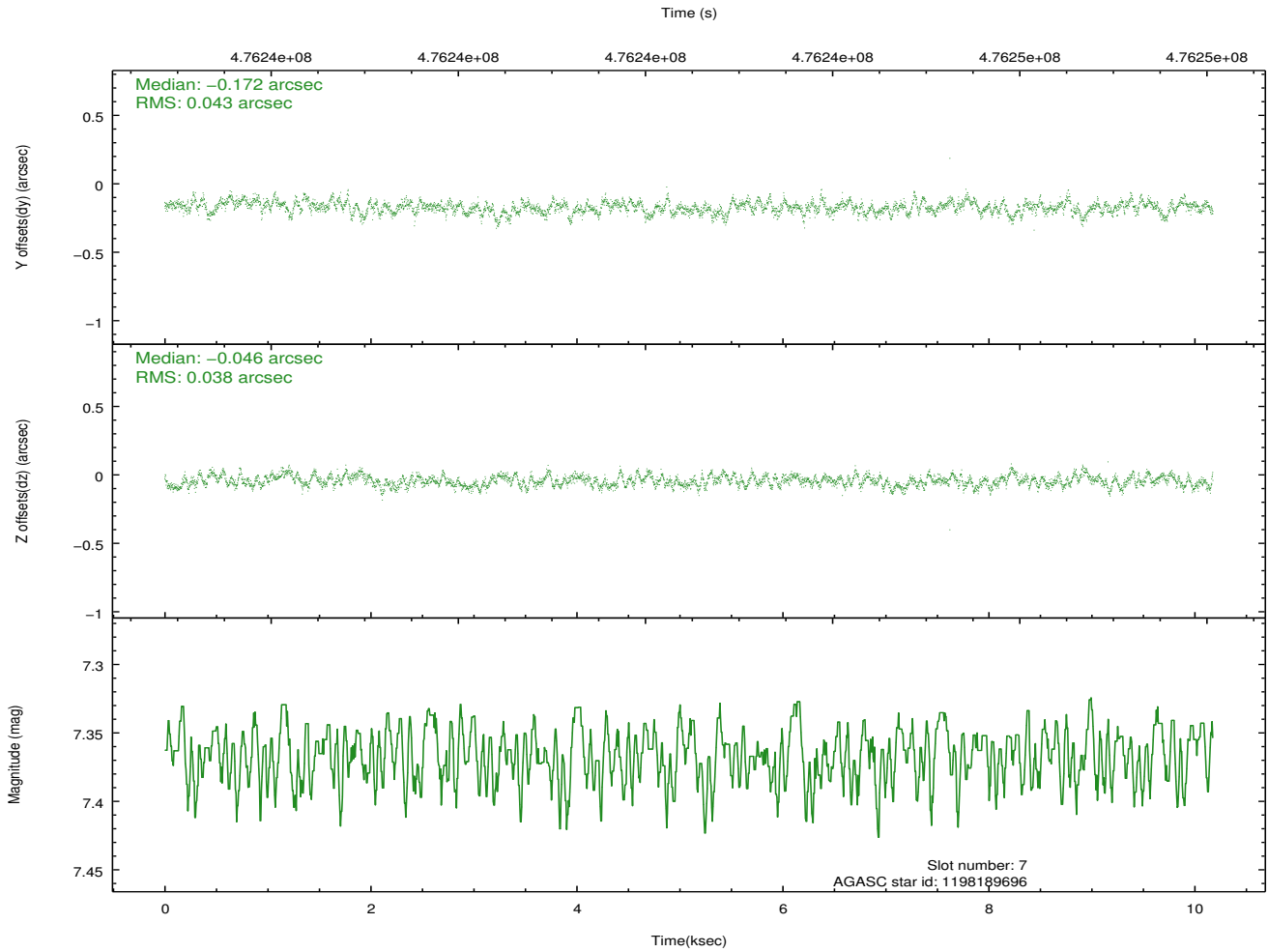
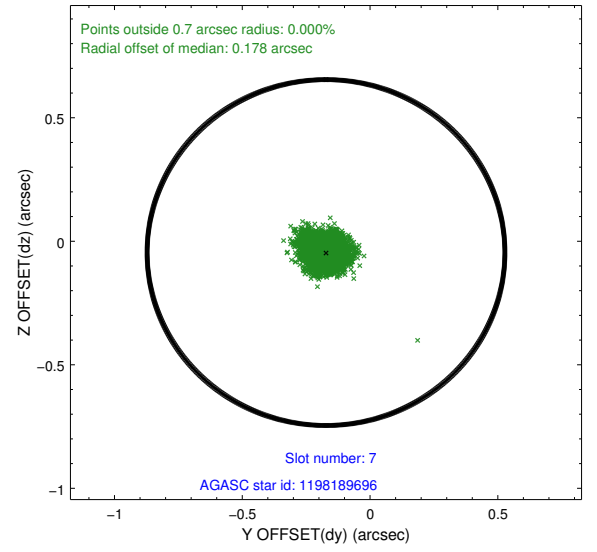
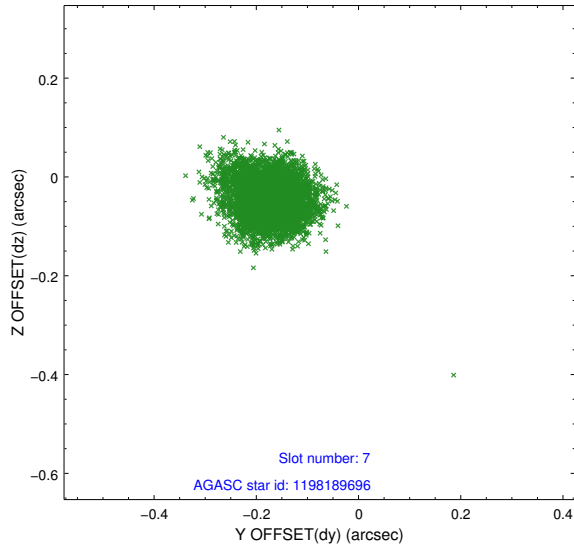
2.4.3 Slot 5



2.4.4 Slot 6

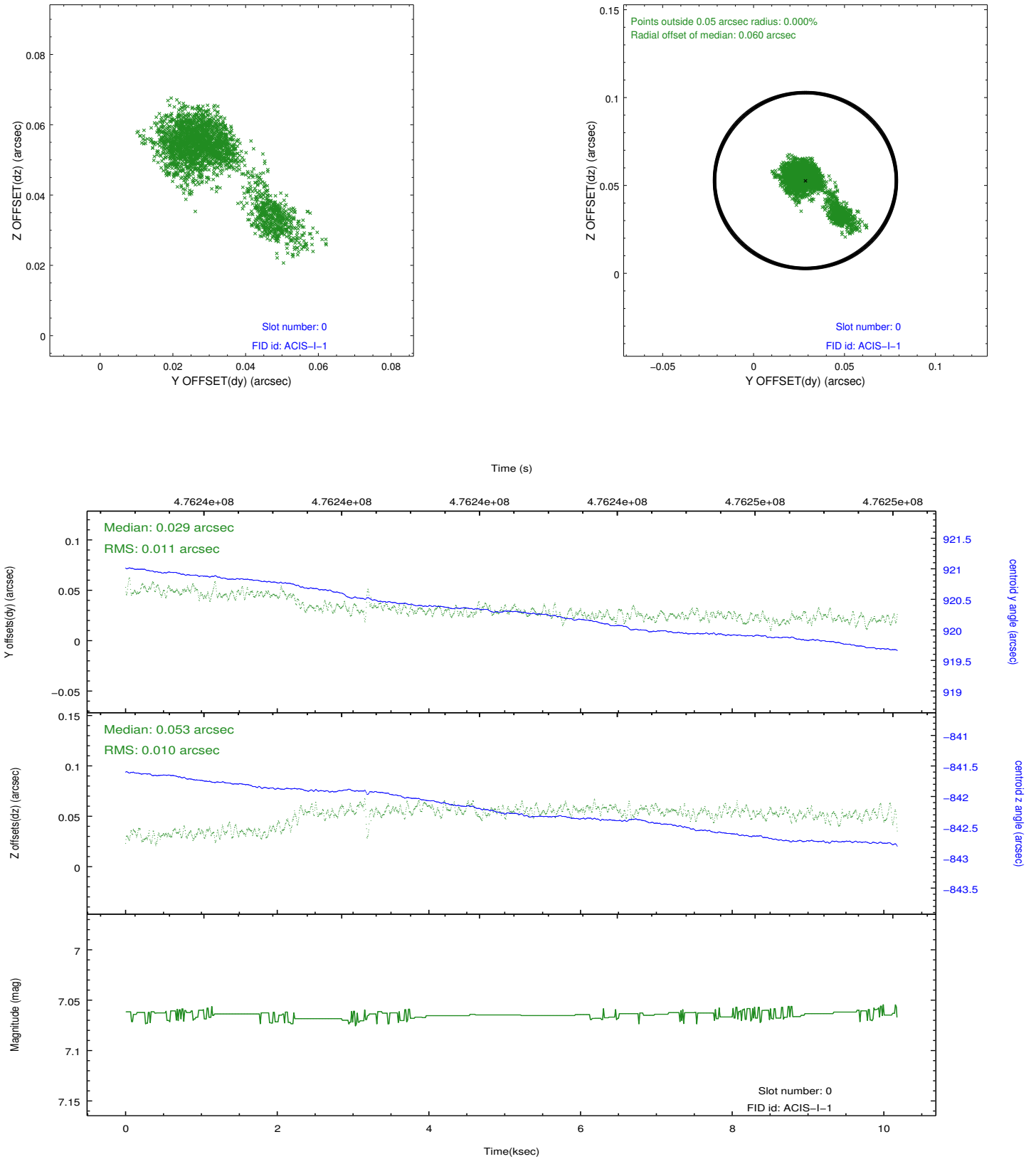


2.4.5 Slot 7

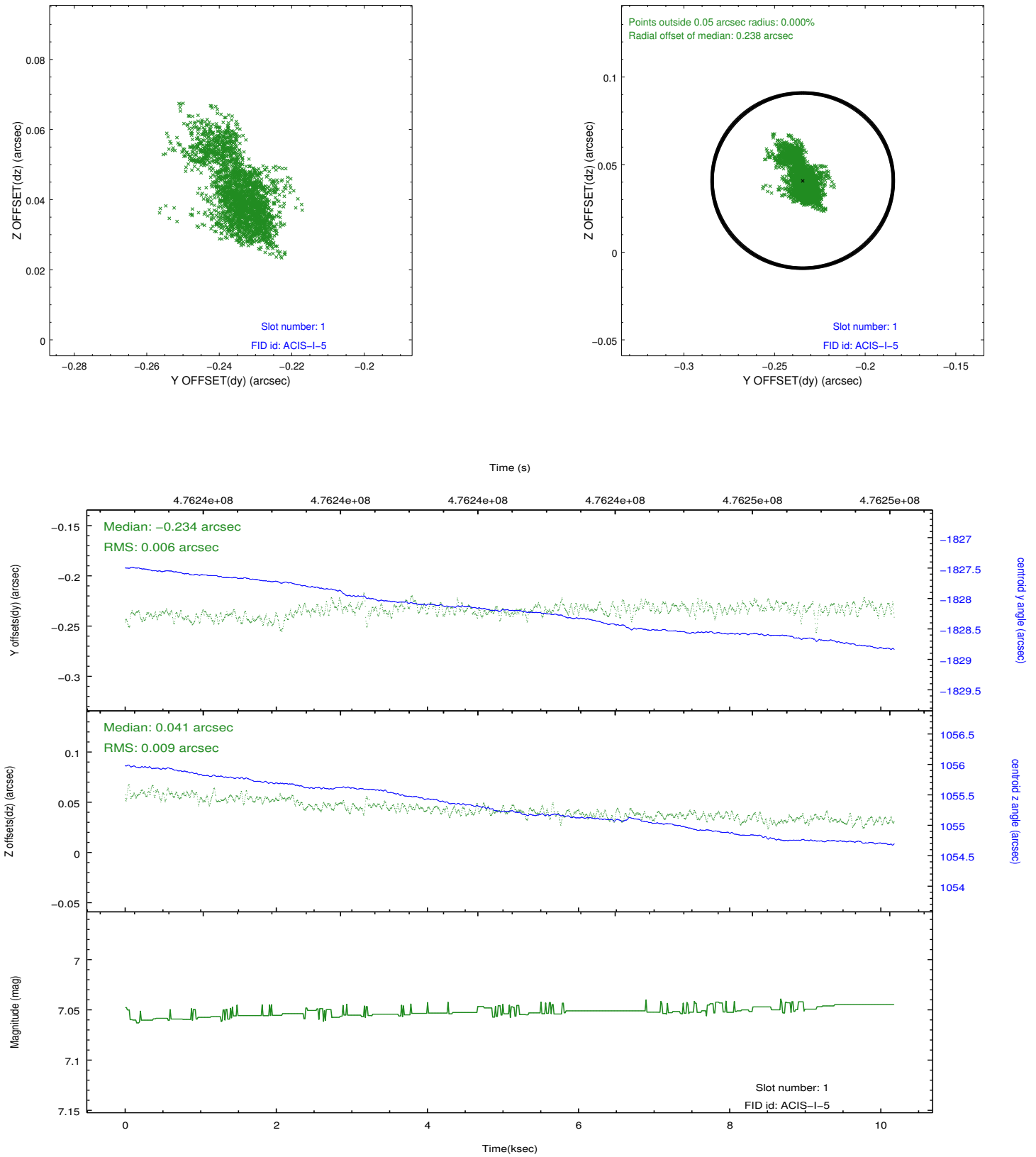


2.5 FID Slots

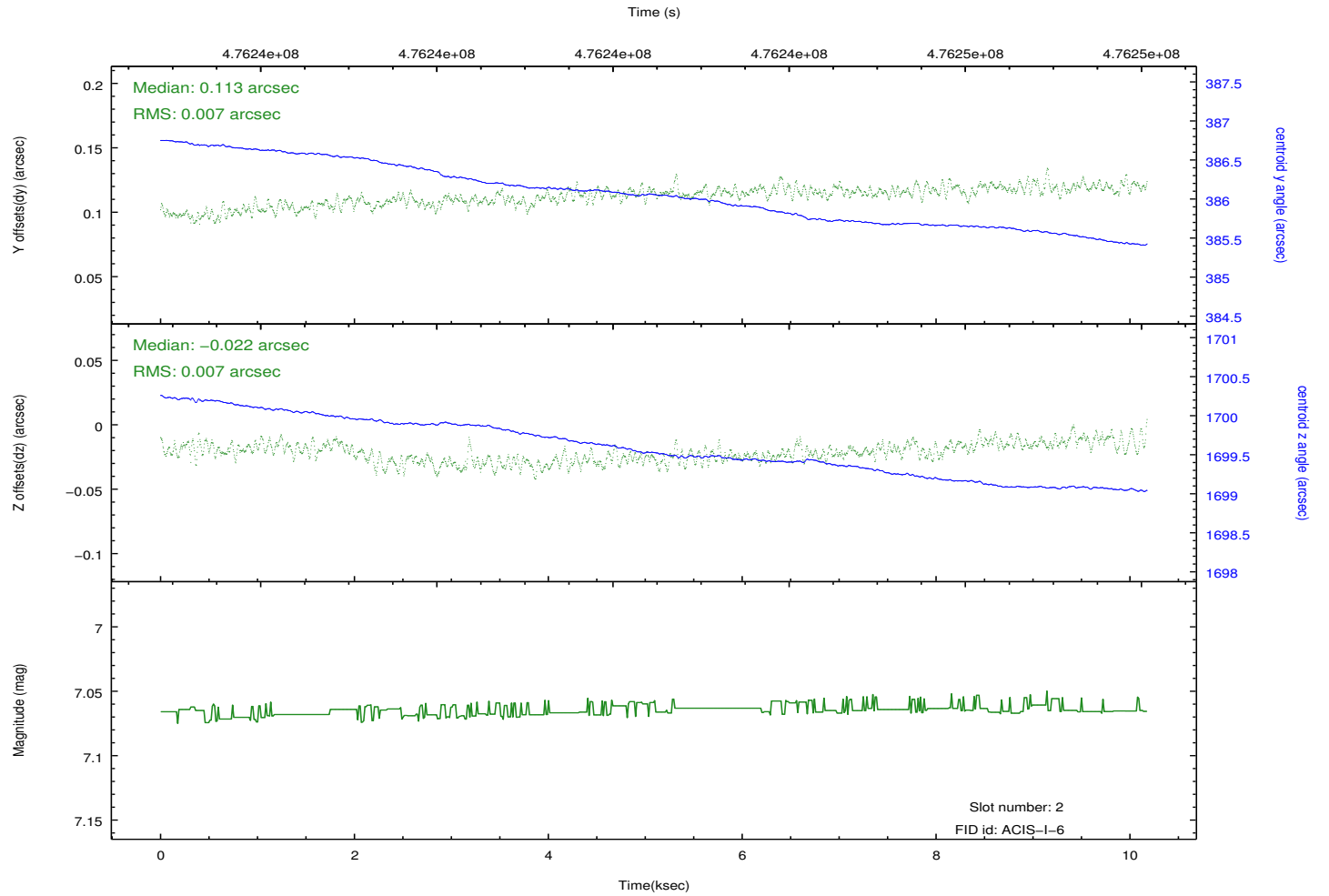
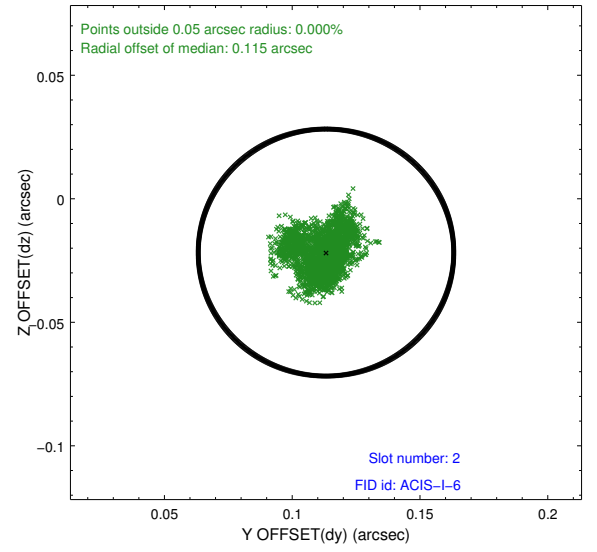
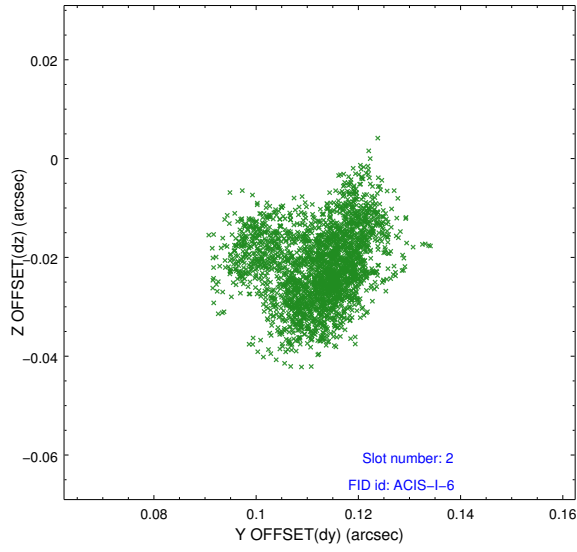
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.064800150037

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.