

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21351 - L2 Version 1
Chandra X-Ray Center

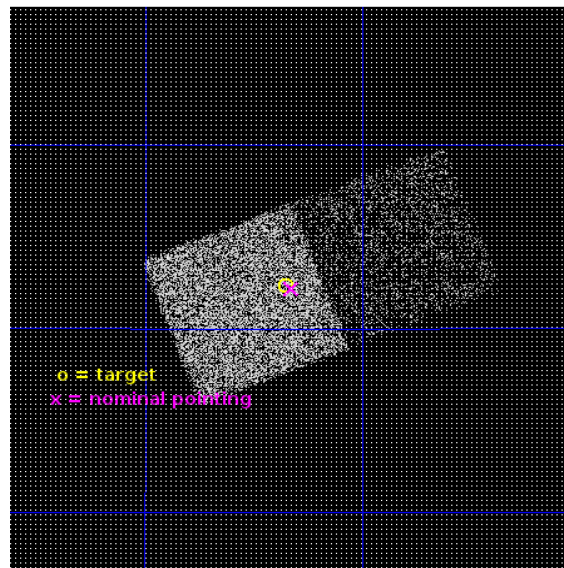
L2 Processing Date : Oct 25 2018

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1 Front

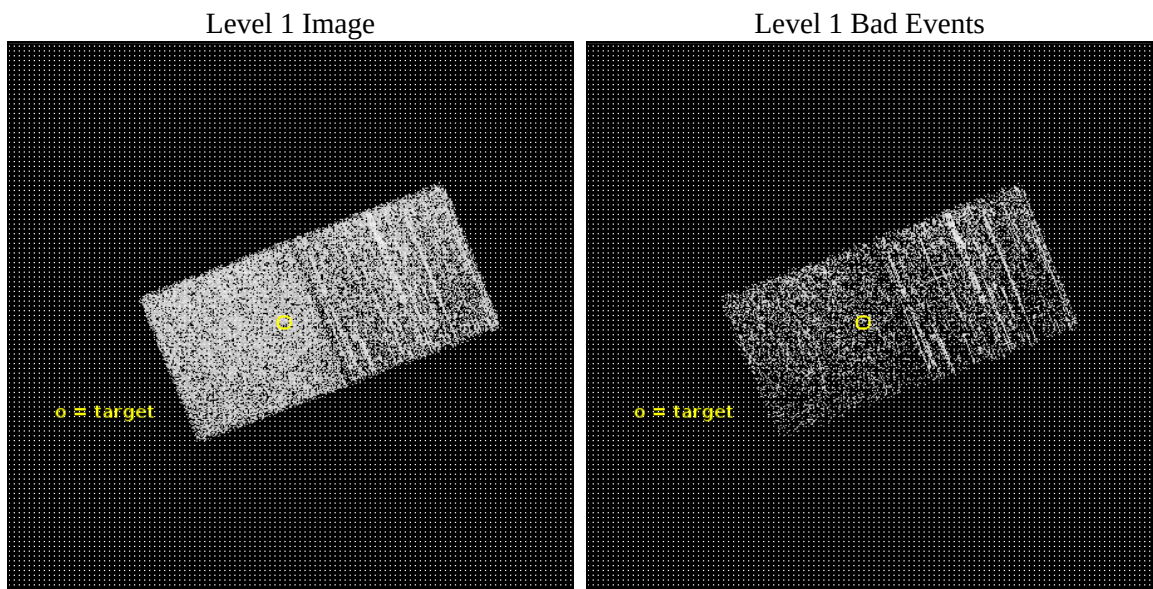
seq_num	503123	Sequence number
obs_id	21351	Observation id
title	Chandra Observations of H-alpha emitting Type I Supernovae	Proposa
observer	David Pooley	Principal investigator
object	SN 1937D	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	39.8375	Observer's specified target RA [deg]
dec_targ	40.872222	Observer's specified target Dec [deg]
ra_nom	39.831417696846	Nominal RA [deg]
dec_nom	40.869467440211	Nominal Dec [deg]
roll_nom	158.337913487	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3081.0	Sum of GTIs [s]
livetime	3039.420724489	Livetime [s]
ontime6	3081.0	Sum of GTIs [s]
ontime7	3081.0	Sum of GTIs [s]
l2events	14941	Number of level 2 events



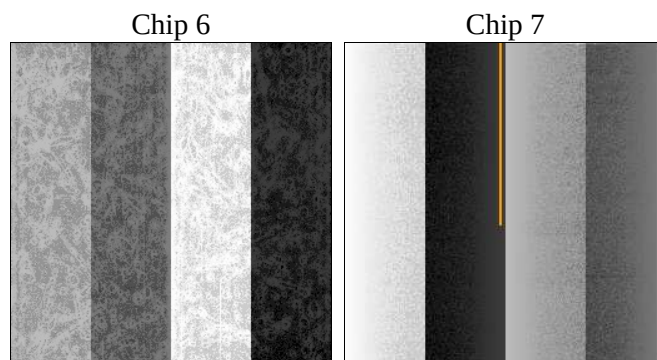
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	3081.0	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime6	3081.0	Sum of GTIs [s]
date	2018-10-25T06:28:20	Date and time of file creation	ontime7	3081.0	Sum of GTIs [s]
revision	1	Processing version of data	l1events	54804	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7
level 1 events	25059	29745
rejected events	22417	16804
rejected %	89%	56%

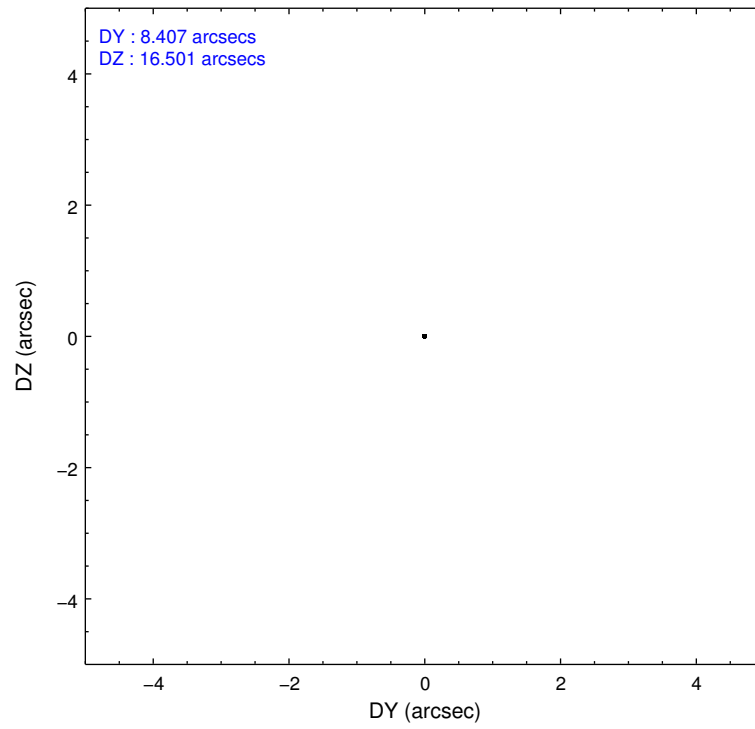
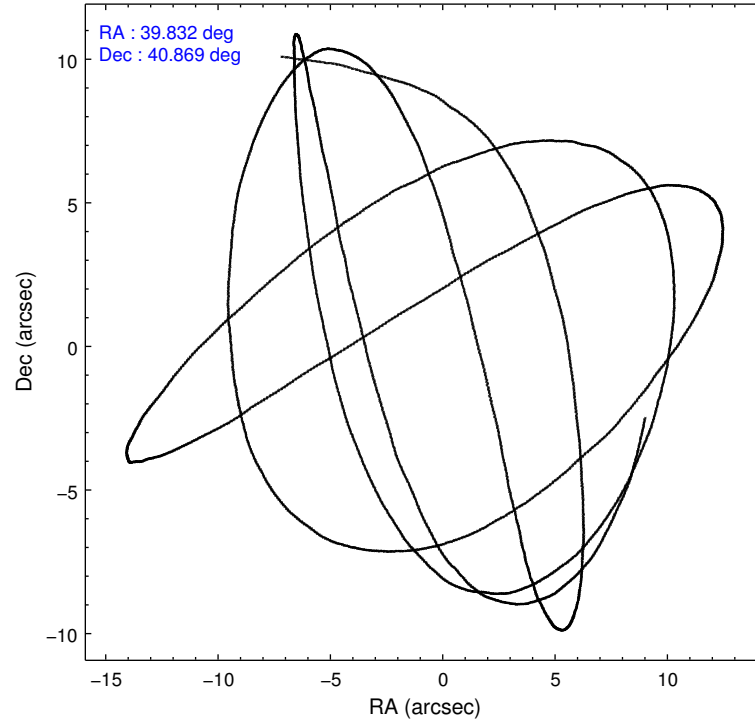
	ccd 6	ccd 7
grade 0 events	778	1105
	3%	3%
grade 1 events	4	30
	0%	0%
grade 2 events	747	2660
	2%	8%
grade 3 events	232	1029
	0%	3%
grade 4 events	228	982
	0%	3%
grade 5 events	952	2845
	3%	9%
grade 6 events	660	7172
	2%	24%
grade 7 events	21458	13922
	85%	46%

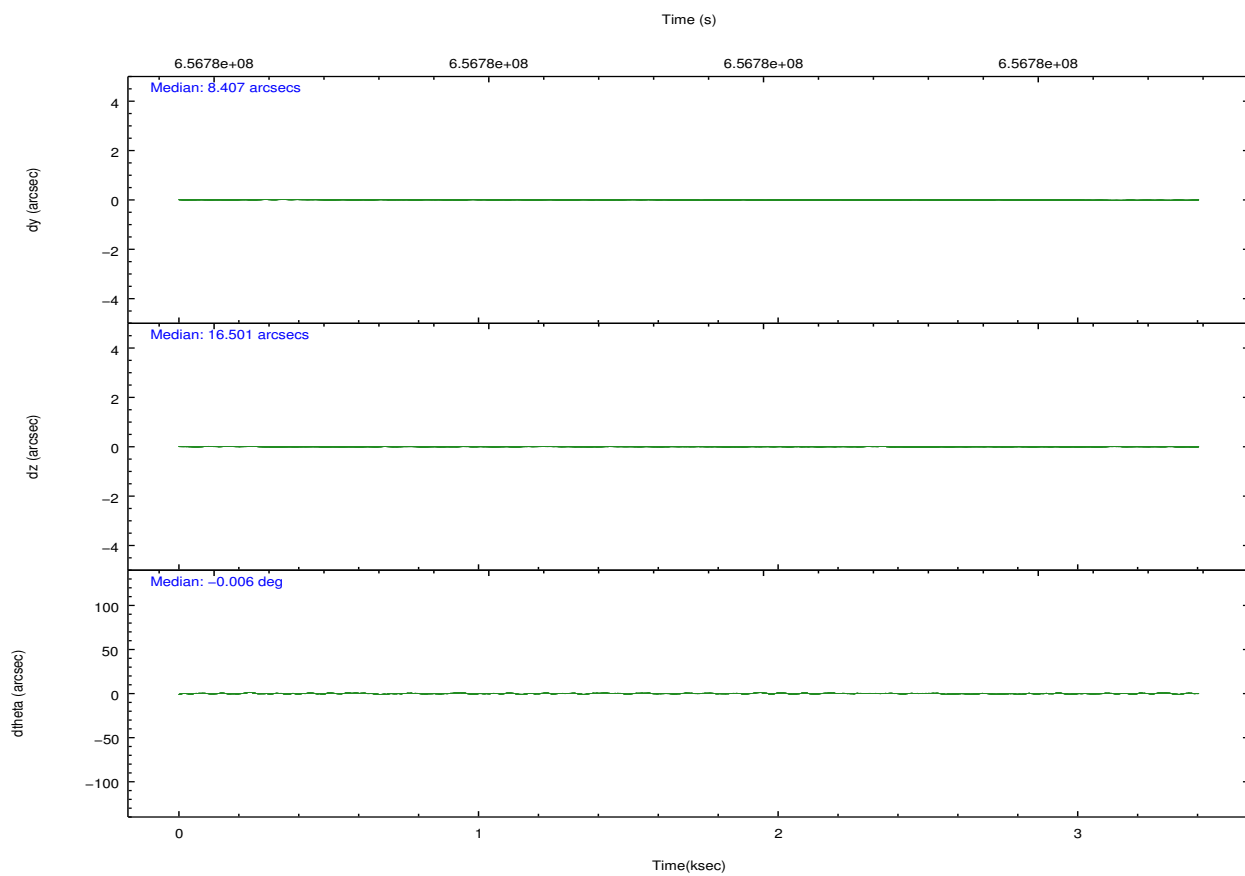
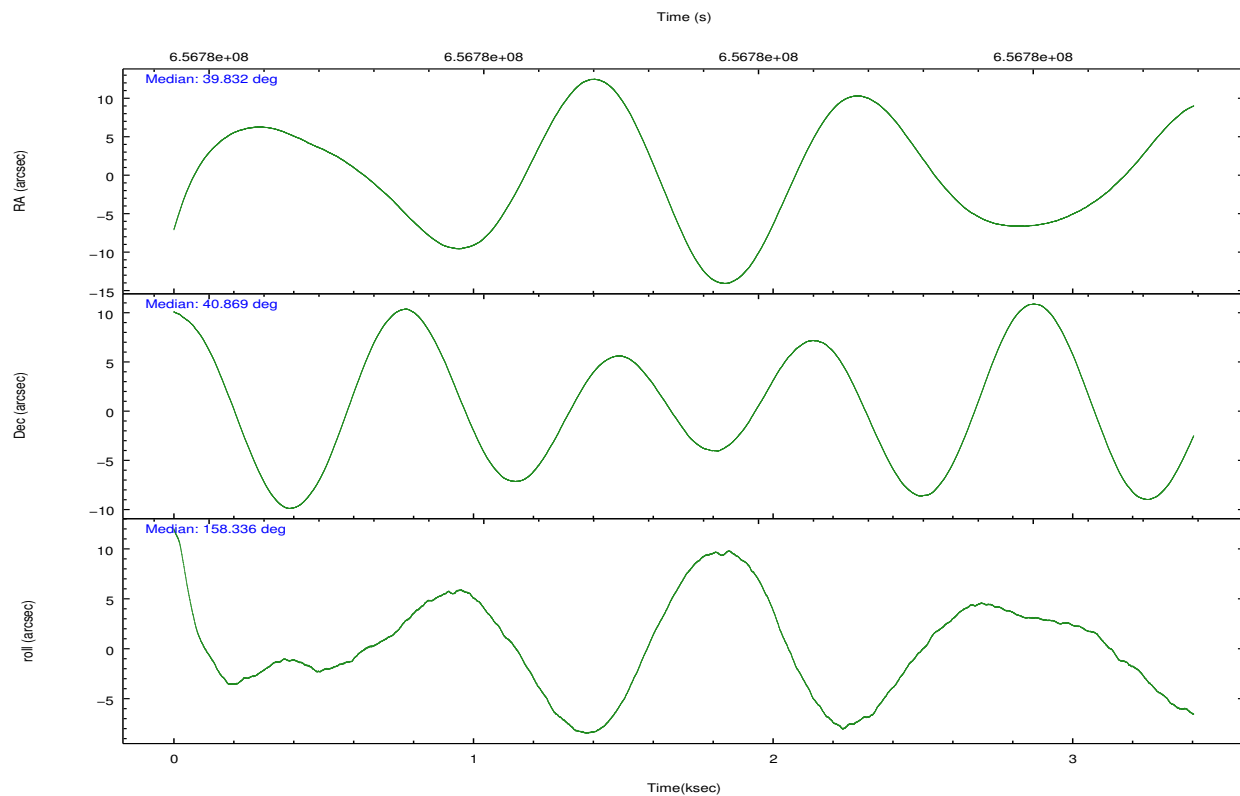
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-67	ACIS-67
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	39.867176	39.83141769684576
[deg] Pointing Dec	40.873923	40.86946744021079
[deg] Pointing Roll	158.157868	158.337913486995
[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)	656776436.184000	656775665.8473901
Observation start date	2018-10-24T13:52:47	2018-10-24T13:41:05
[s] Observation end time (MET)	656779436.184000	656779809.41014
Observation end date	2018-10-24T14:42:47	2018-10-24T14:50:09
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O1	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	O2	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	2	2
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3

2.3 Aspect



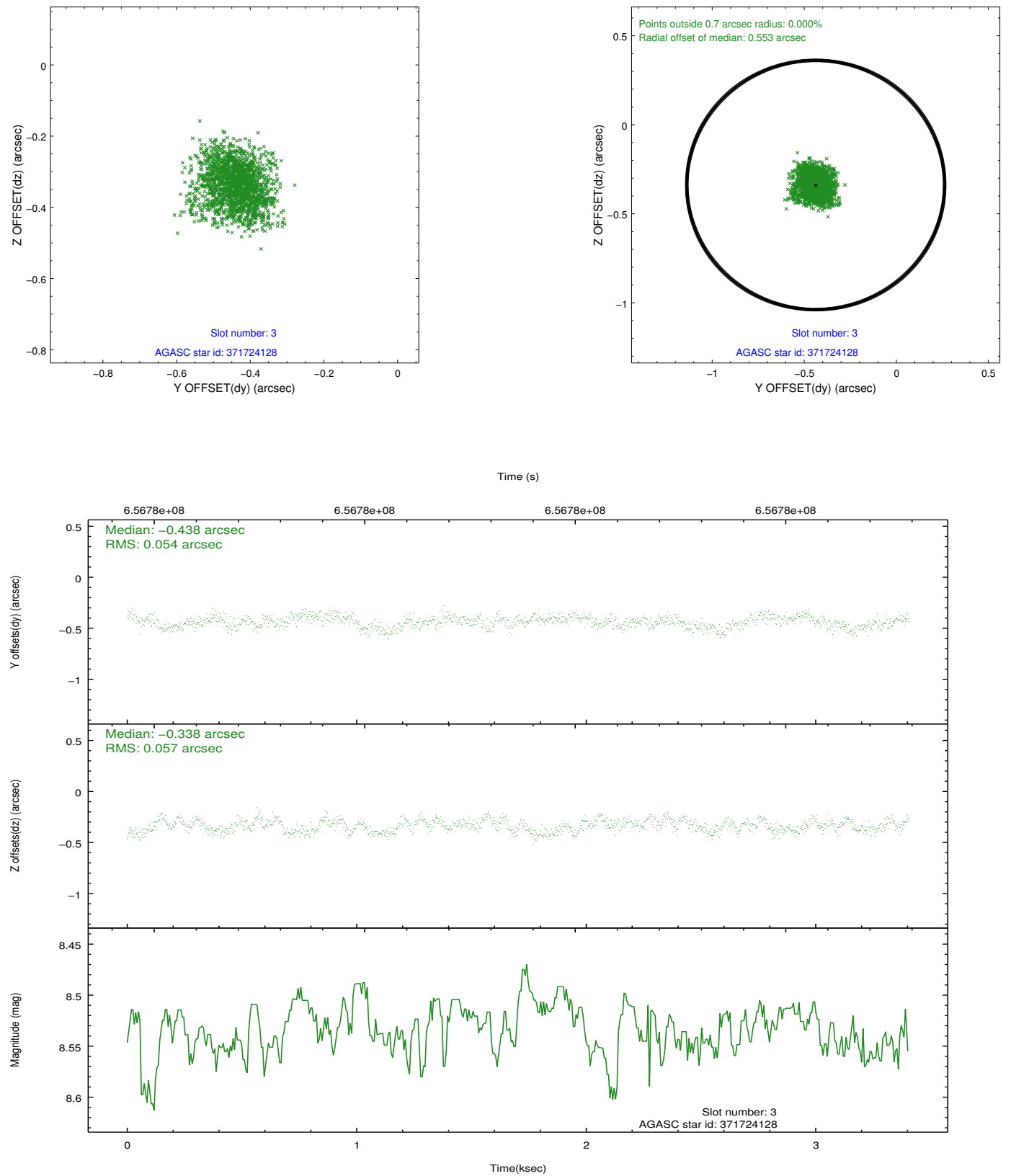


Slot Statistics

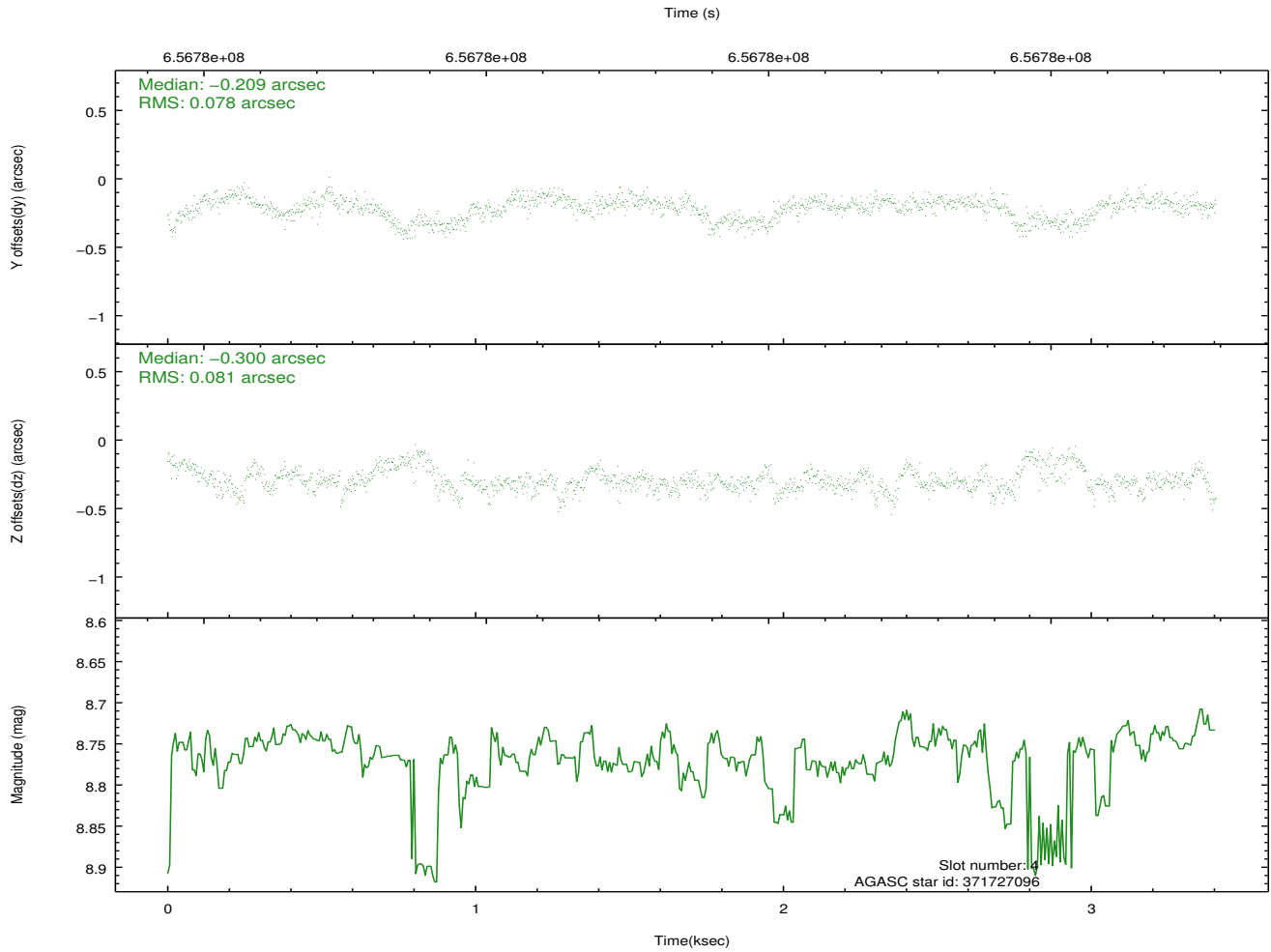
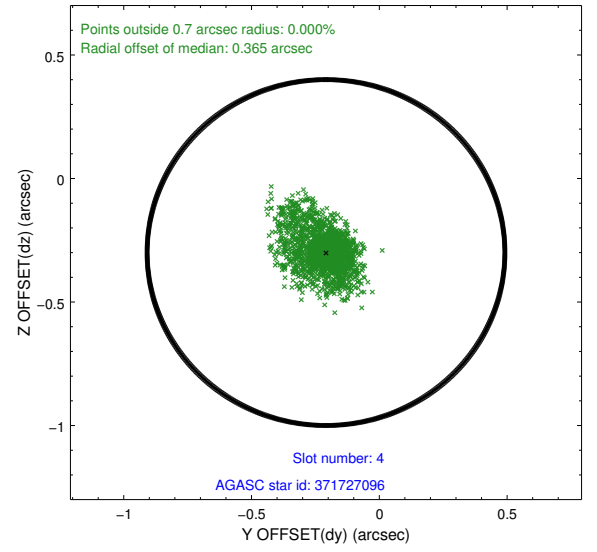
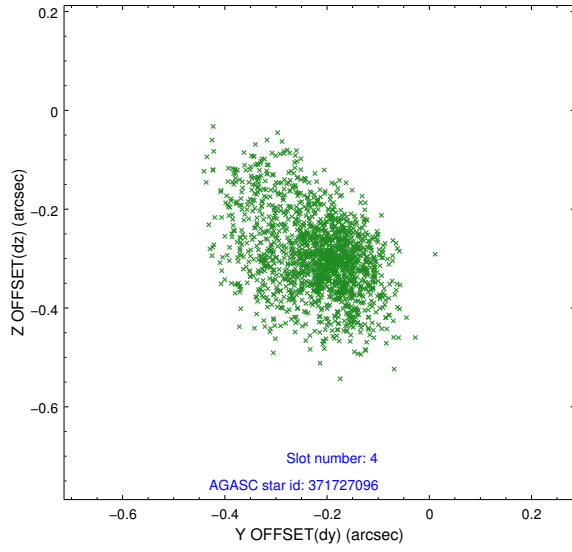
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.14	831	1.000	-0.266	-0.161	0.007	0.012	0.000000	0.000000	-761.40 -1738
1	FID		ACIS-S-4	7.28	831	1.000	0.642	0.172	0.006	0.011	0.000000	0.000000	2151.87 168
2	FID		ACIS-S-5	7.25	831	1.000	-0.407	-0.002	0.007	0.013	0.000000	0.000000	-1812.06 164
3	GUIDE	used	371724128	8.53	1661	1.000	-0.438	-0.338	0.085	0.133	38.988899	40.781344	2102.53 1188
4	GUIDE	used	371727096	8.76	1661	1.000	-0.209	-0.300	0.116	0.209	39.625634	40.473534	79.31 1583
5	GUIDE	used	371730168	8.28	1661	1.000	-0.237	-0.313	0.089	0.143	38.808300	40.596707	2322.10 1987
6	GUIDE	used	373425632	7.37	1659	1.000	0.460	0.551	0.057	0.098	40.862173	41.120084	-2166.83 -1839
7	GUIDE	used	373950960	7.52	1661	1.000	0.443	0.384	0.079	0.125	40.590494	41.292169	-1253.15 -2133

2.4 Star Slots

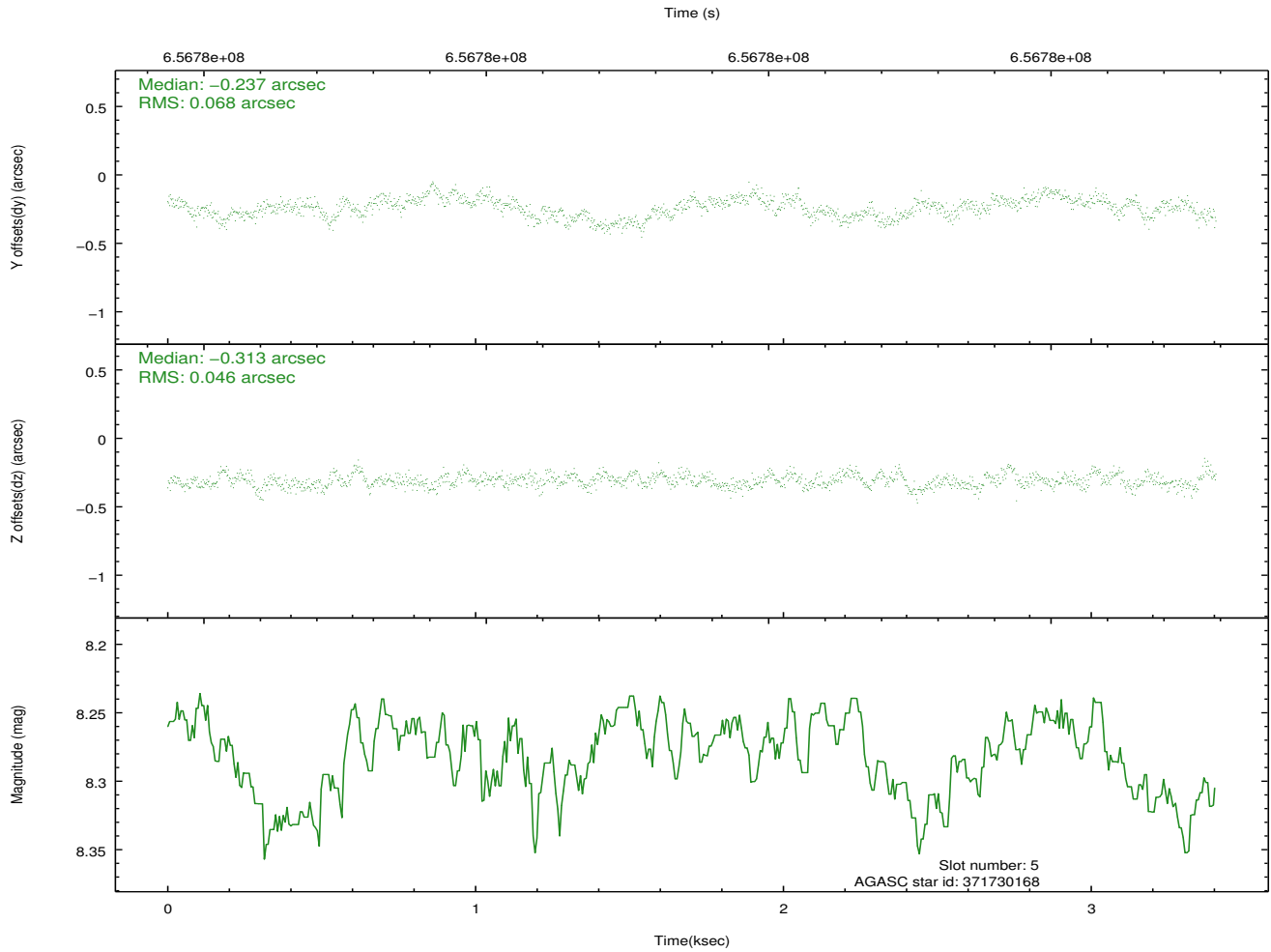
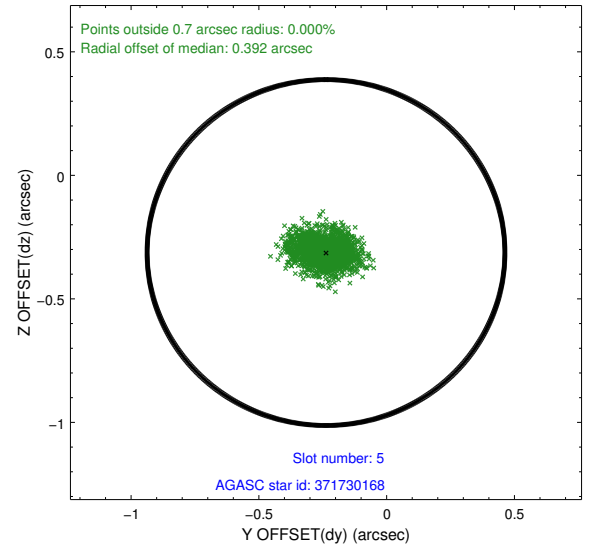
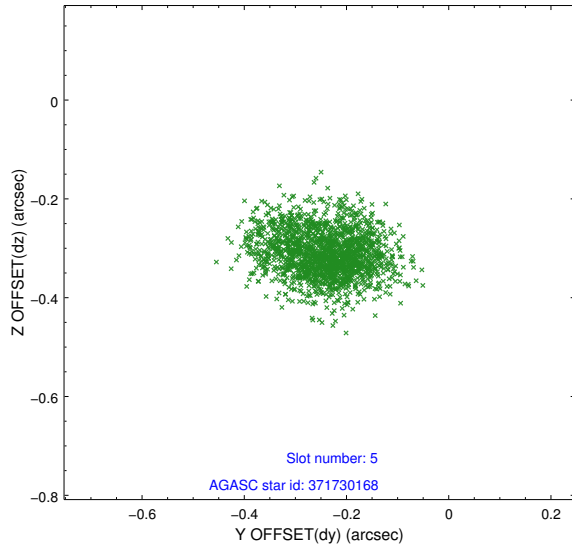
2.4.1 Slot 3



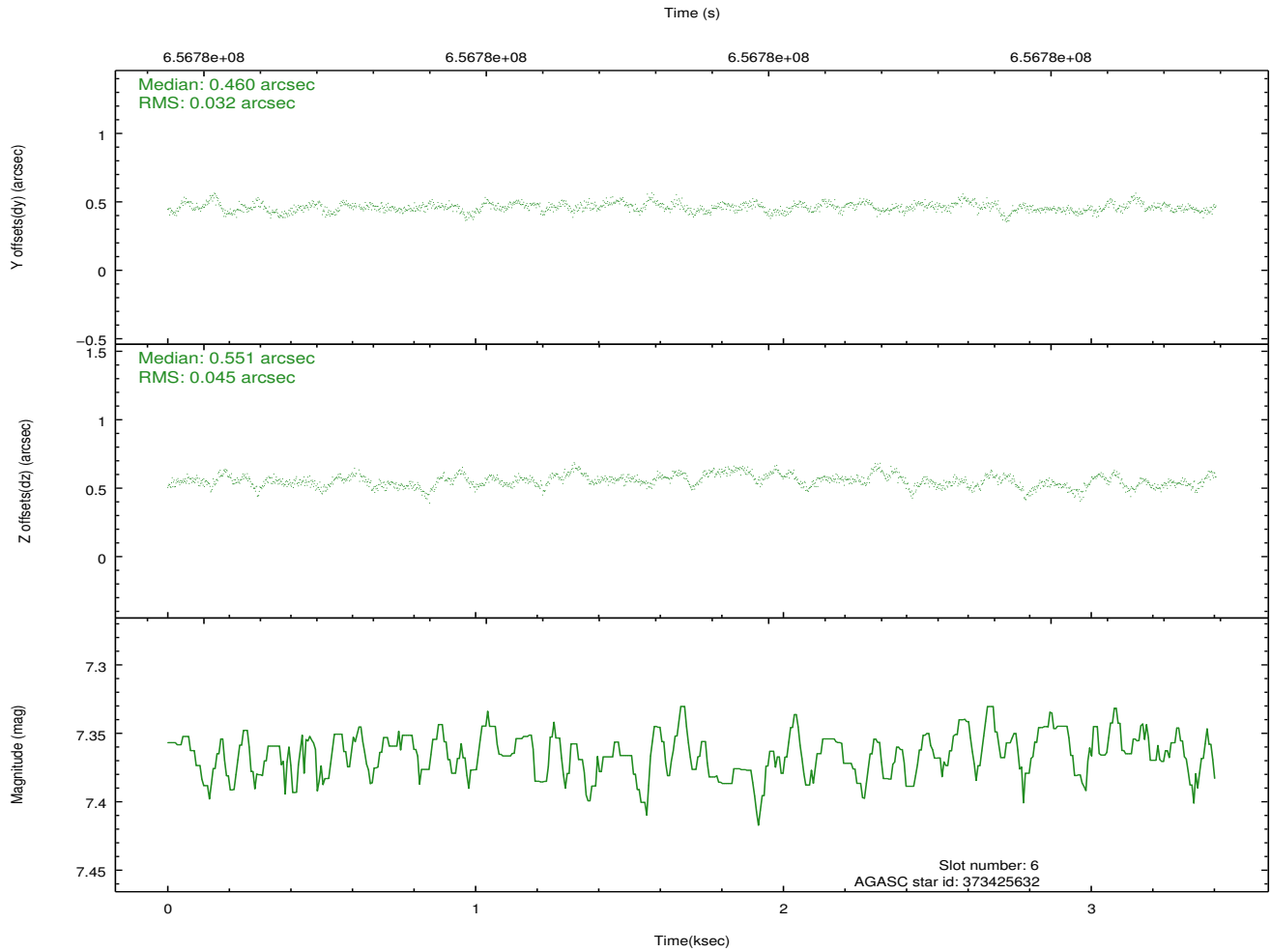
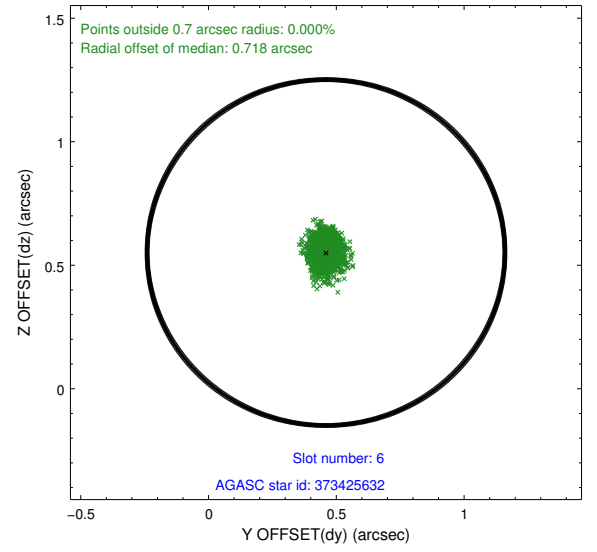
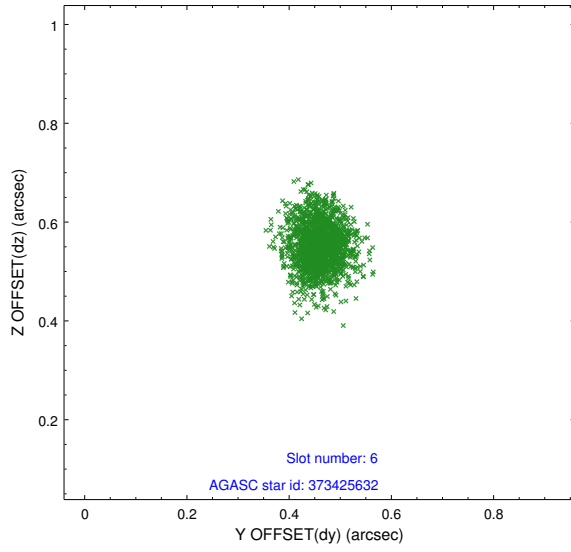
2.4.2 Slot 4



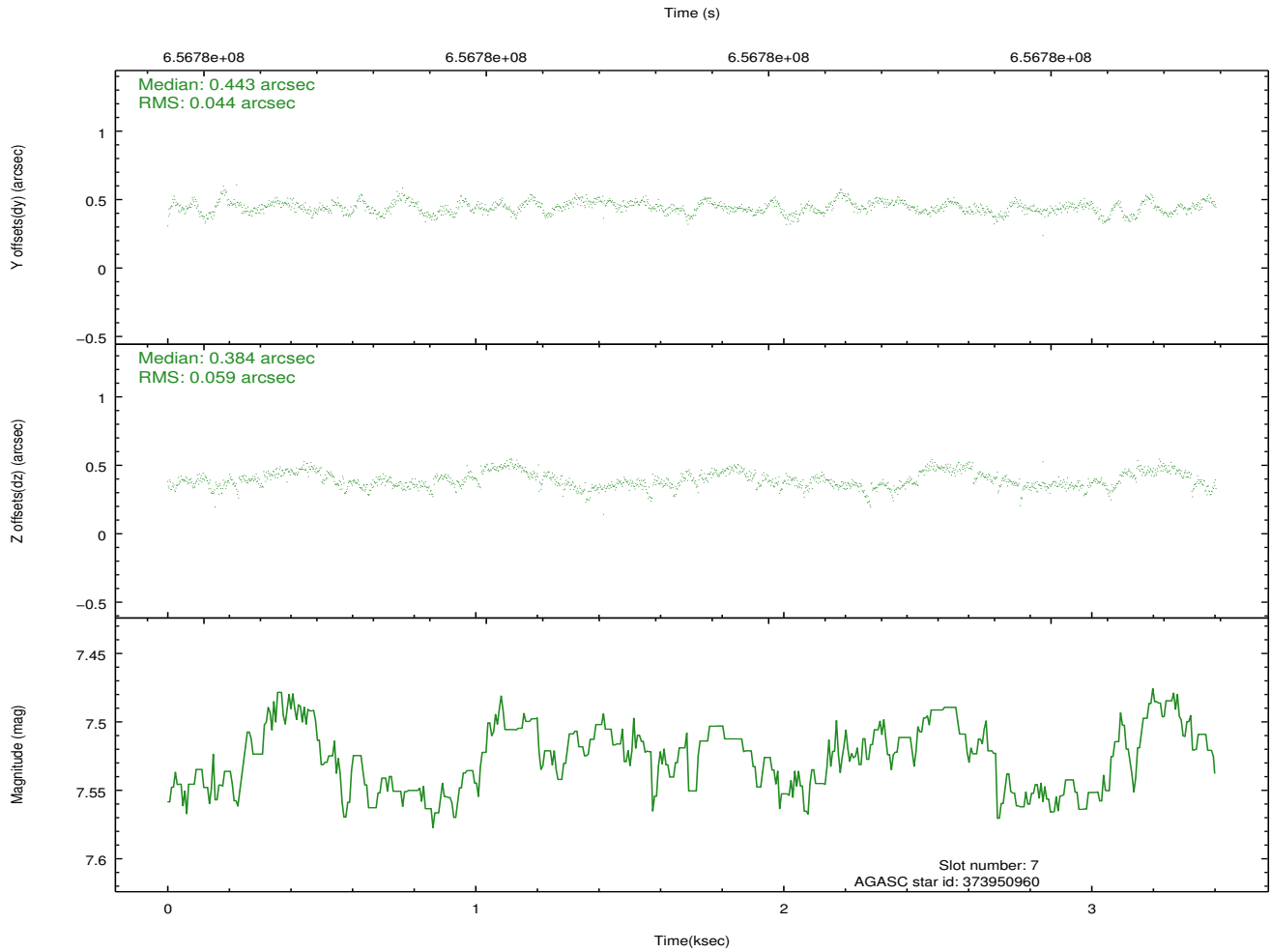
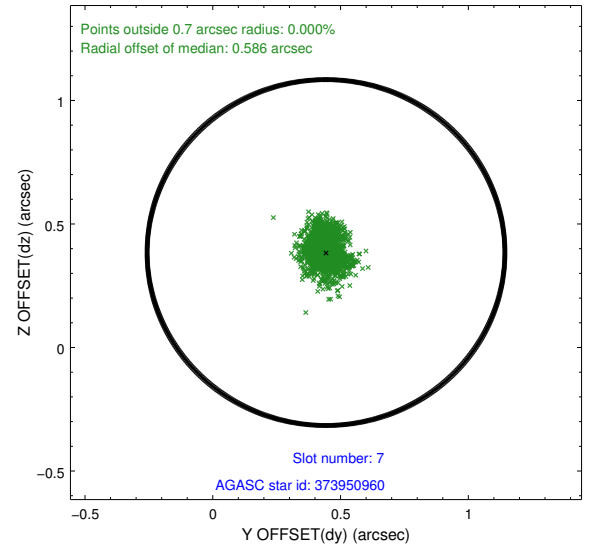
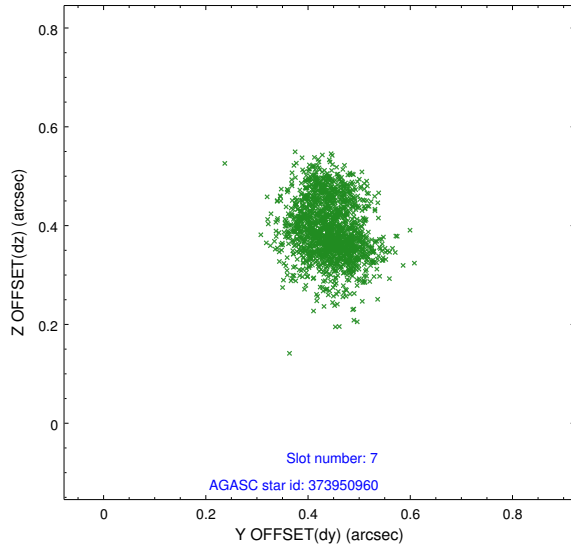
2.4.3 Slot 5



2.4.4 Slot 6

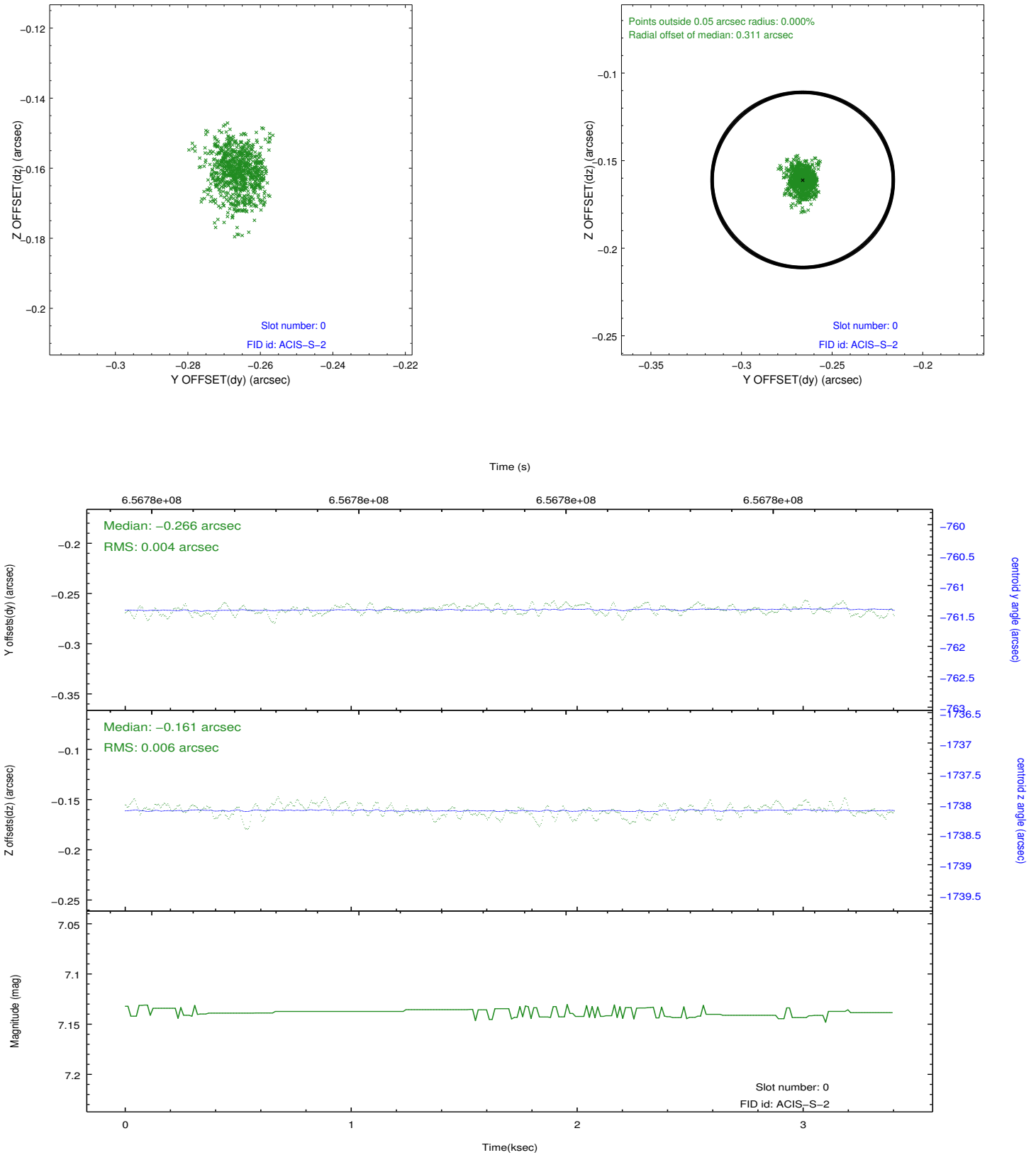


2.4.5 Slot 7

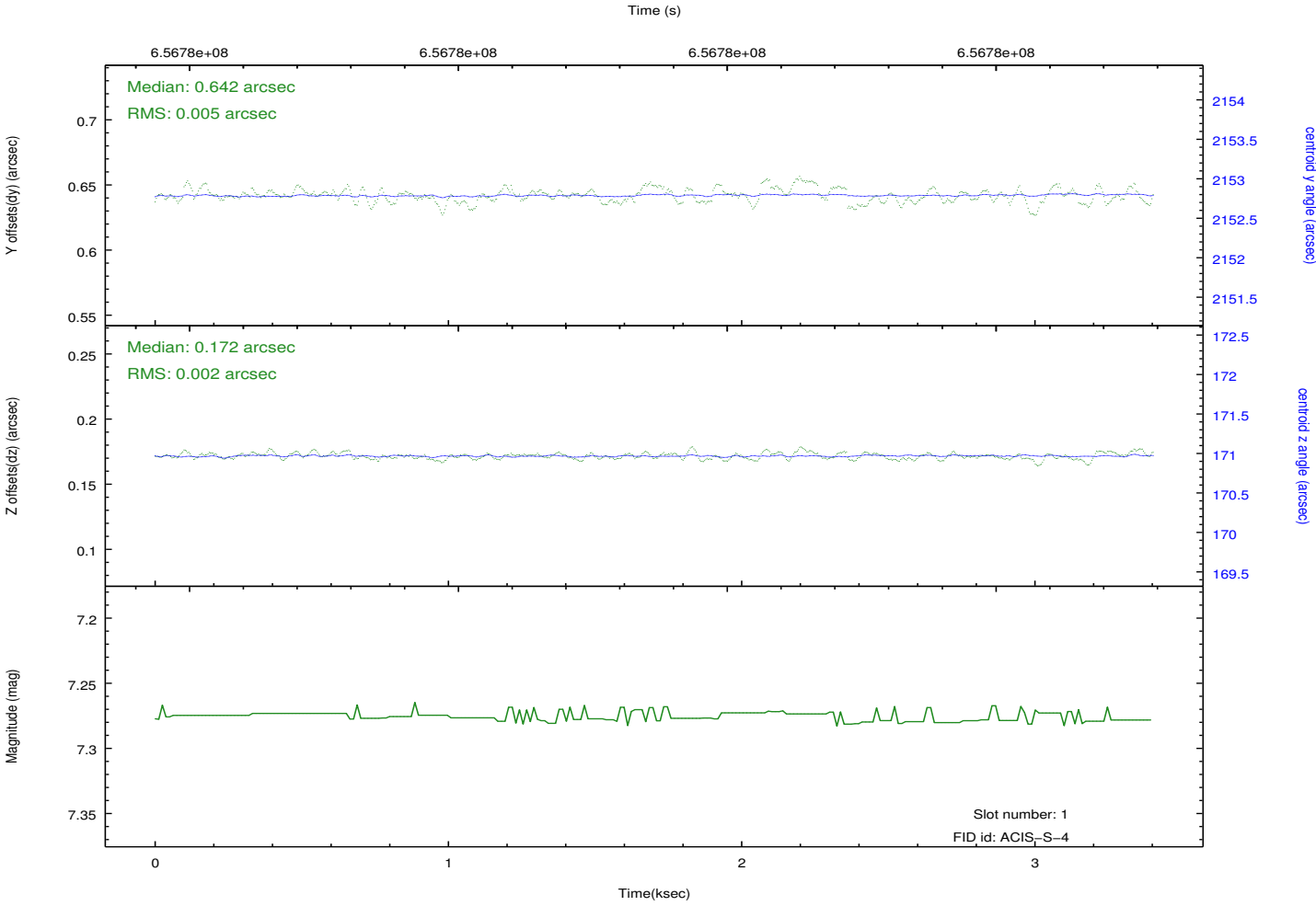
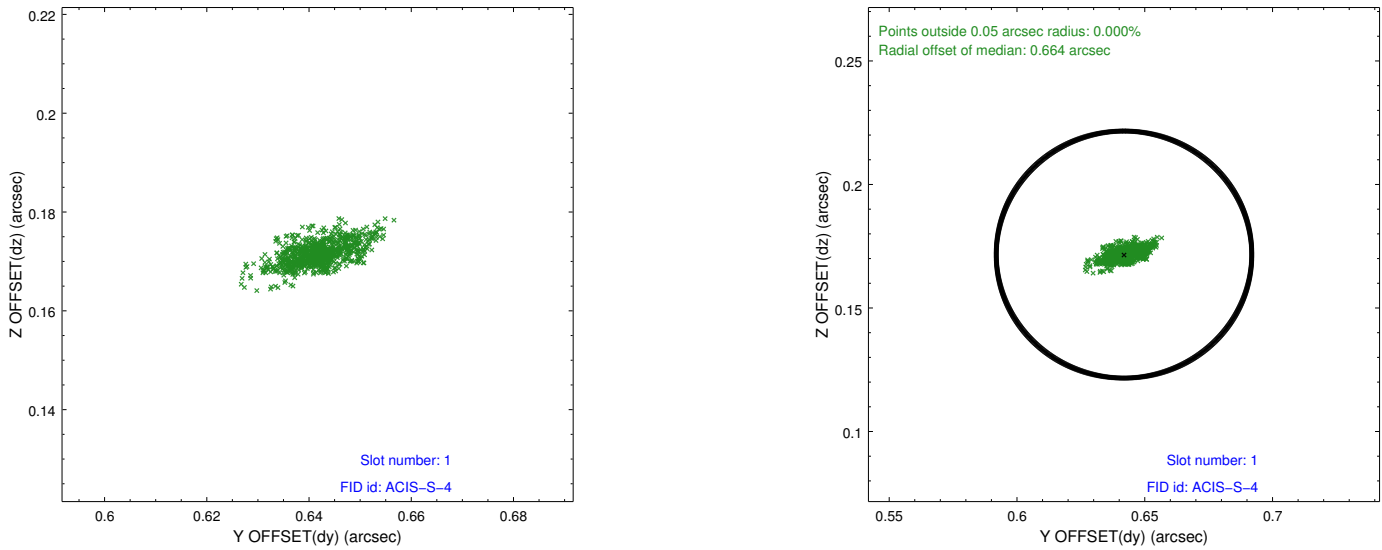


2.5 FID Slots

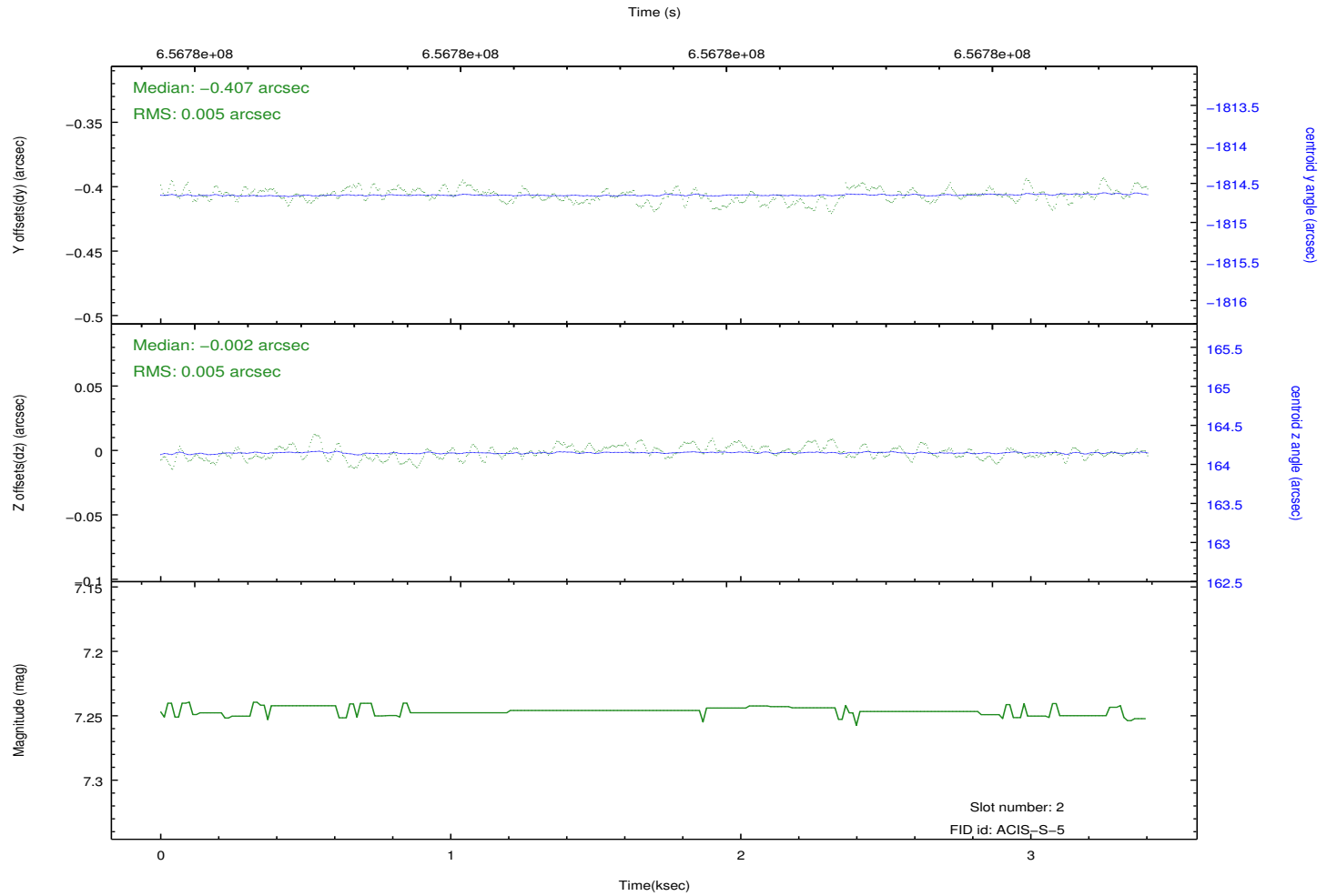
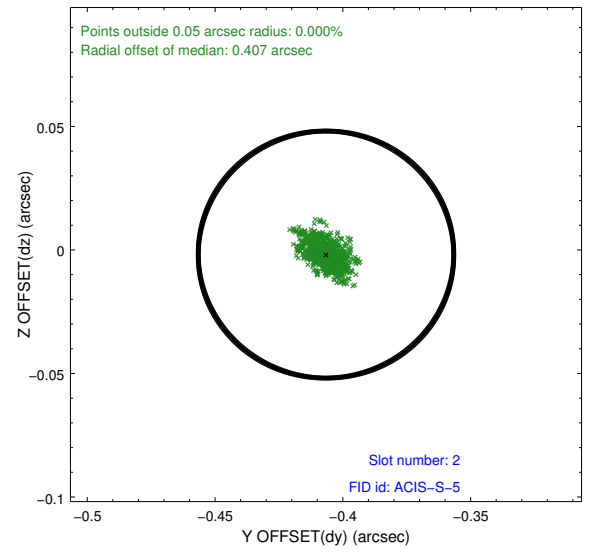
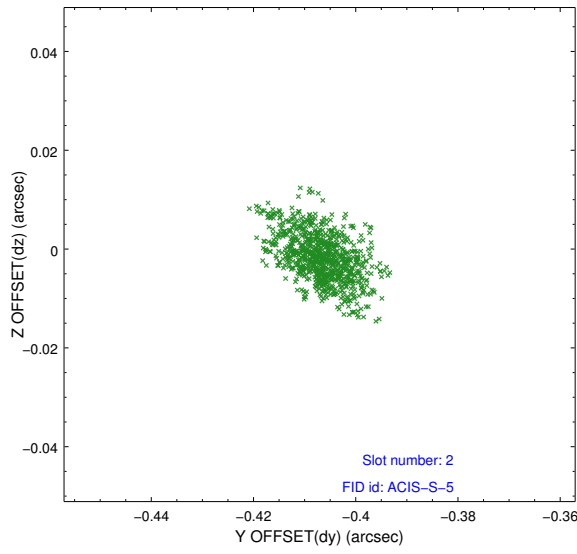
2.5.1 Slot 0



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)	2018.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.081

A.2 Comments

Joint proposal with NRAO.

Two optional chips were dropped.