

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21469 - L2 Version 1
Chandra X-Ray Center

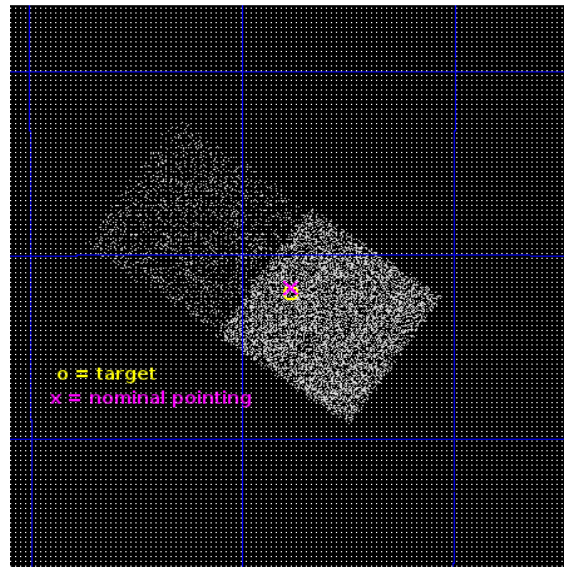
L2 Processing Date : Oct 25 2018

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1 Front

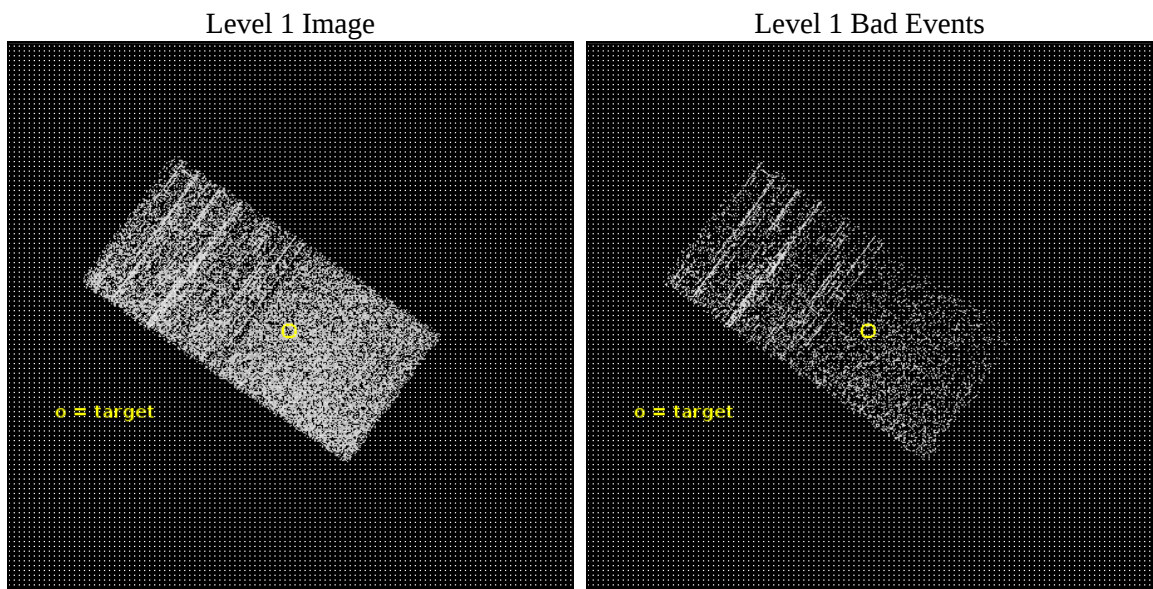
seq_num	703765	Sequence number
obs_id	21469	Observation id
title	RUNAWAY TIDAL CAPTURE IN NUCLEAR STAR CLUSTERS AS A FORMATION PATHWAY FOR MASSIVE BLACK HOLES	Proposal title
observer	Vivienne Baldassare	Principal investigator
object	NGC 1487	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	58.942083	Observer's specified target RA [deg]
dec_targ	-42.368	Observer's specified target Dec [deg]
ra_nom	58.941727148319	Nominal RA [deg]
dec_nom	-42.363160397959	Nominal Dec [deg]
roll_nom	34.978684321983	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2079.0	Sum of GTIs [s]
livetime	2050.9430984137	Livetime [s]
ontime6	2079.0	Sum of GTIs [s]
ontime7	2079.0	Sum of GTIs [s]
l2events	9786	Number of level 2 events



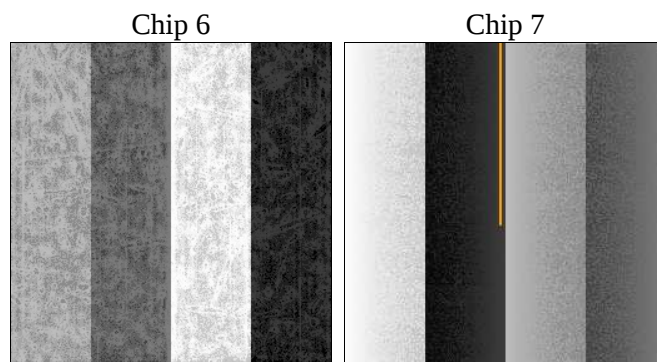
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	2079.0	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime6	2079.0	Sum of GTIs [s]
date	2018-10-25T05:06:41	Date and time of file creation	ontime7	2079.0	Sum of GTIs [s]
revision	1	Processing version of data	l1events	36878	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7
level 1 events	17101	19777
rejected events	15397	11262
rejected %	90%	56%

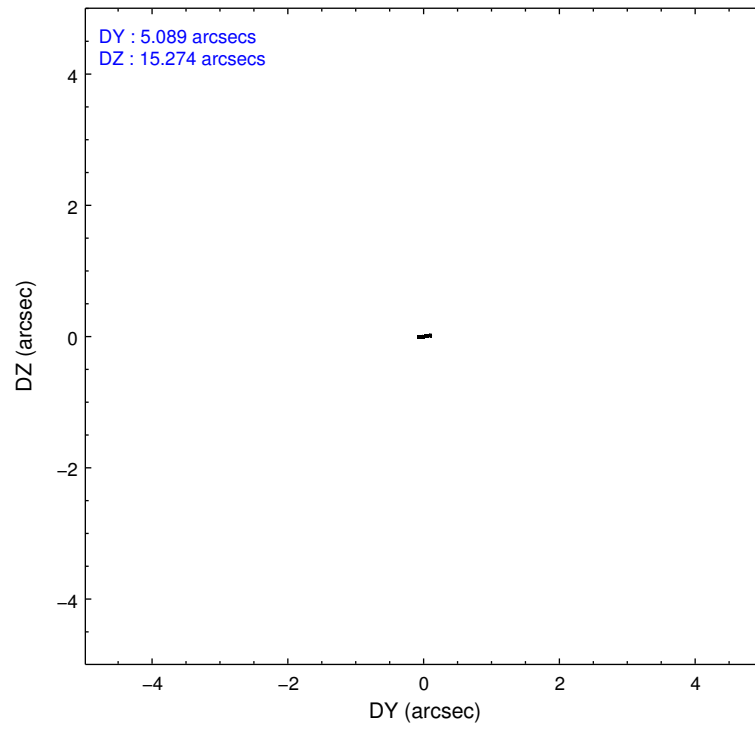
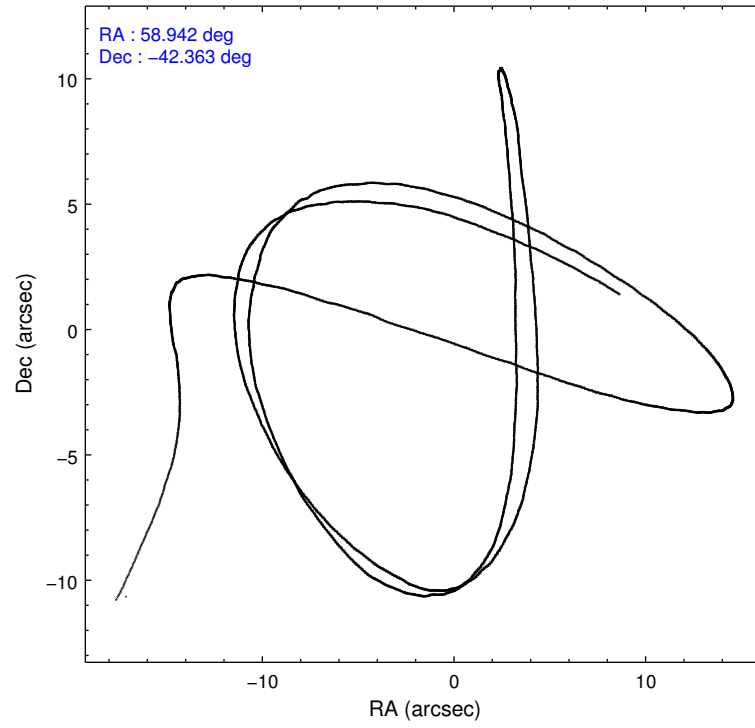
	ccd 6	ccd 7
grade 0 events	505	726
	2%	3%
grade 1 events	8	32
	0%	0%
grade 2 events	459	1835
	2%	9%
grade 3 events	145	696
	0%	3%
grade 4 events	153	640
	0%	3%
grade 5 events	670	1935
	3%	9%
grade 6 events	447	4641
	2%	23%
grade 7 events	14714	9272
	86%	46%

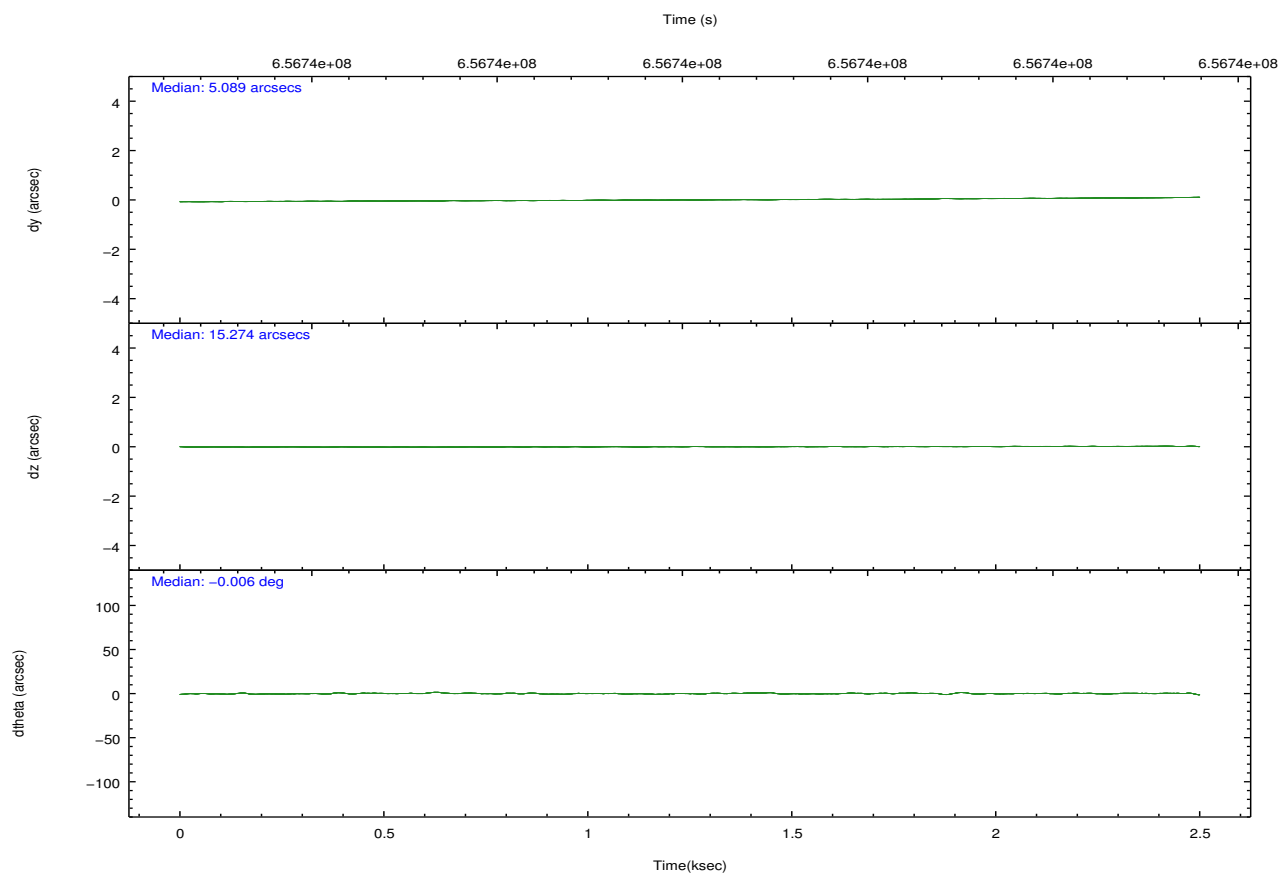
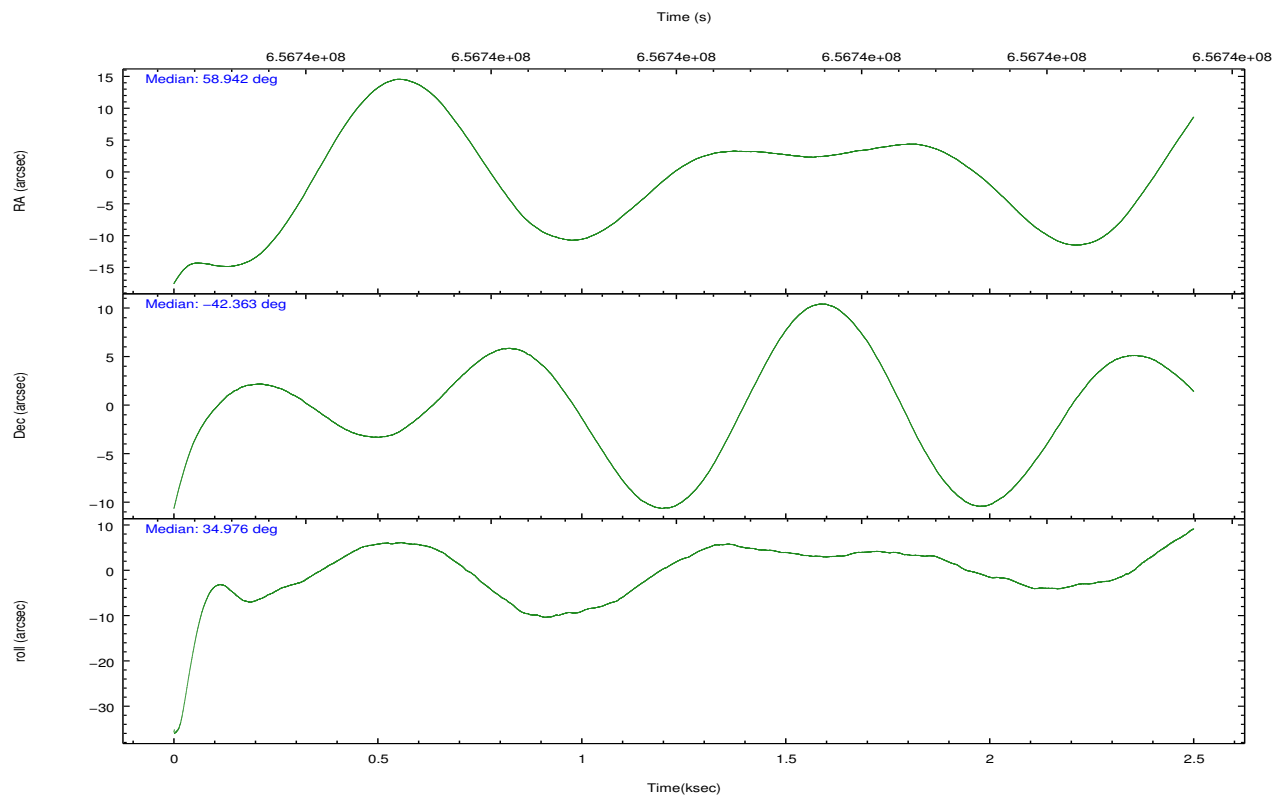
2.2 Compared Parameters

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	58.926869	58.94172714831861
[deg] Pointing Dec	-42.388256	-42.3631603979595
[deg] Pointing Roll	34.812224	34.97868432198287
[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)	656742788.184000	656741882.8703901
Observation start date	2018-10-24T04:31:59	2018-10-24T04:18:02
[s] Observation end time (MET)	656744788.184000	656745225.3955801
Observation end date	2018-10-24T05:05:19	2018-10-24T05:13:45
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	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	O1	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
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



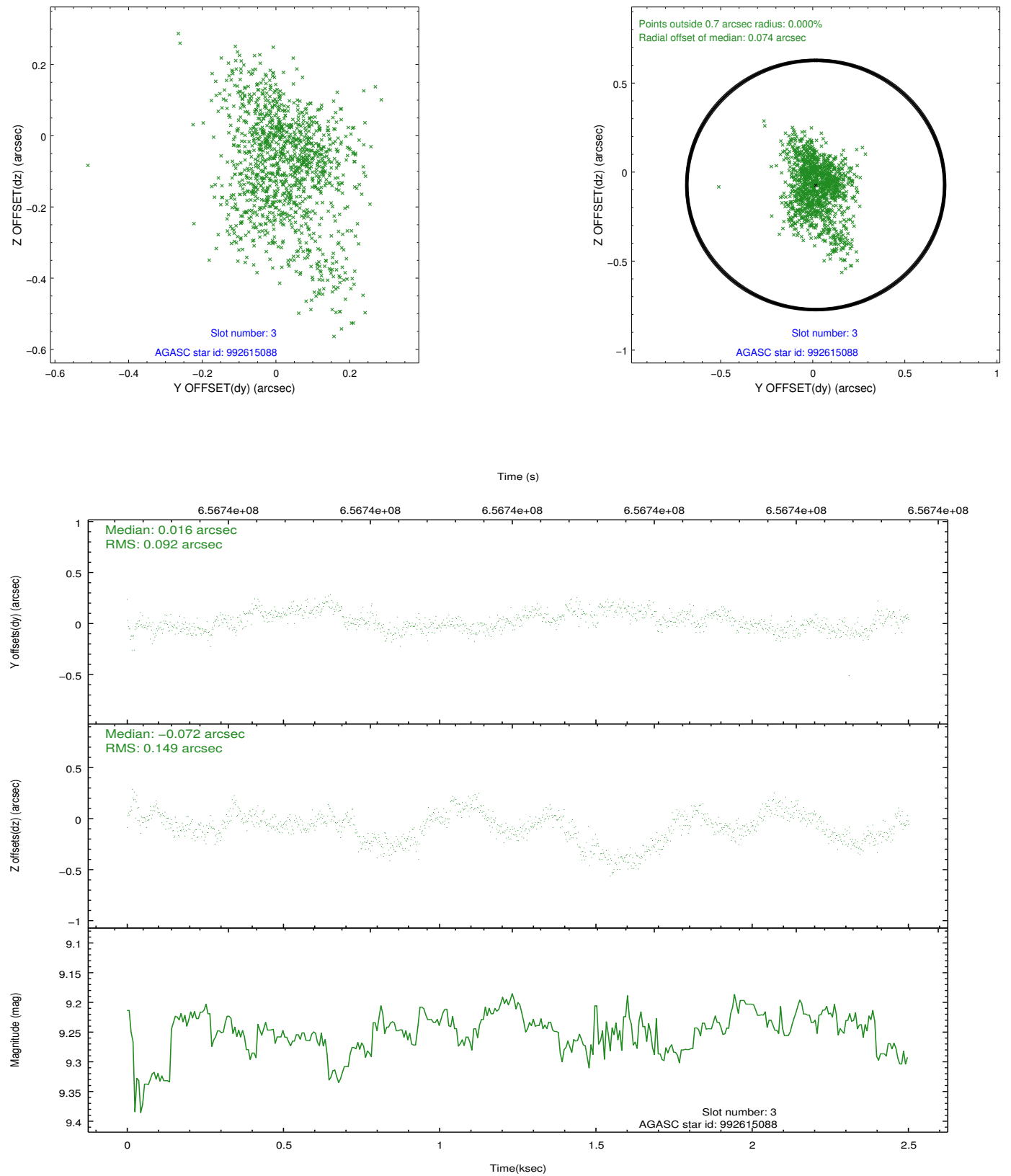


Slot Statistics

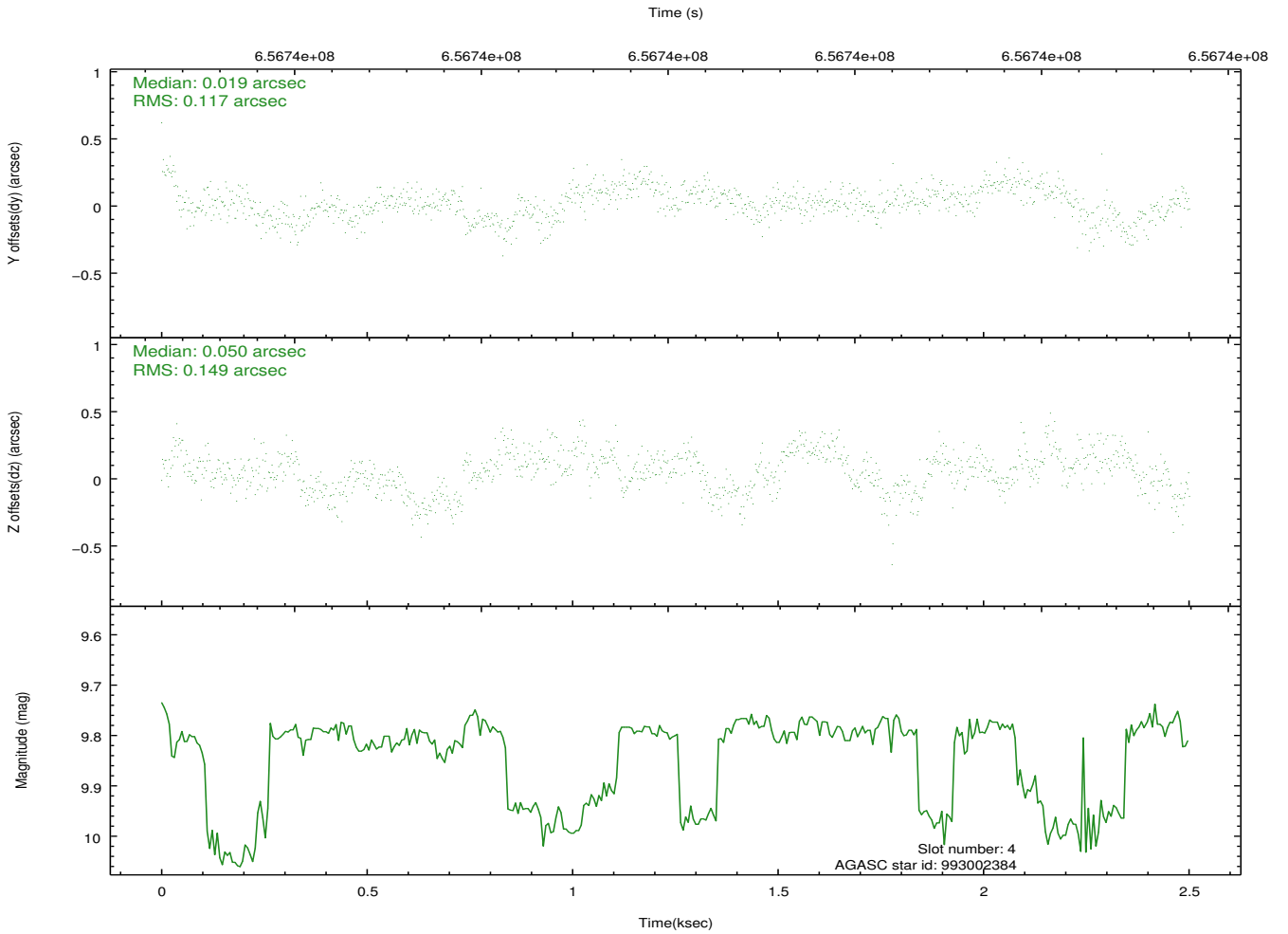
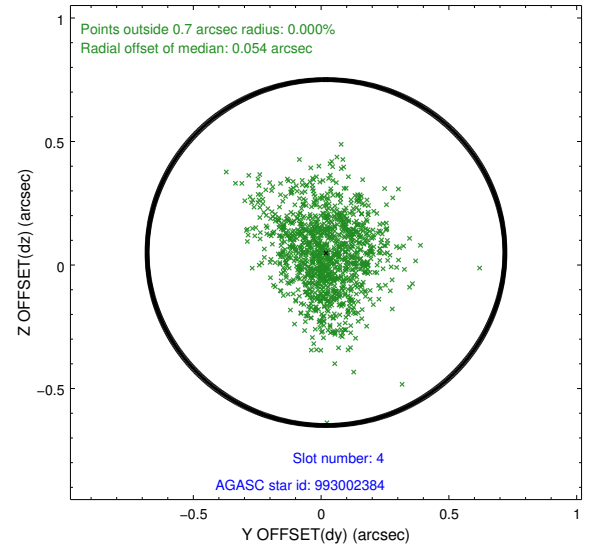
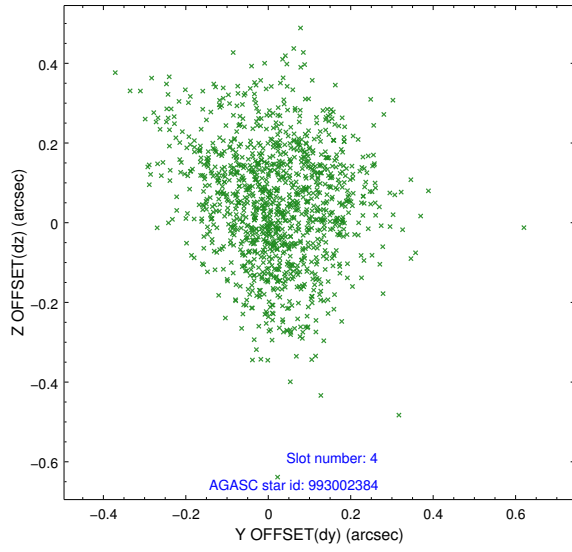
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		7.12	610	1.000	-0.299	-0.118	0.008	0.012	0.000000	0.000000	-758.03	-1736
1	FID		7.25	610	1.000	0.588	0.175	0.005	0.010	0.000000	0.000000	2154.90	169
2	FID		7.24	610	1.000	-0.319	-0.050	0.007	0.012	0.000000	0.000000	-1807.63	165
3	GUIDE	used	9.25	1215	1.000	0.016	-0.072	0.175	0.324	59.301700	-42.493307	602.19	-881
4	GUIDE	used	9.81	1218	1.000	0.019	0.050	0.196	0.332	59.636901	-42.816648	656.36	-2344
5	GUIDE	used	9.70	1219	1.000	-0.224	0.003	0.194	0.291	59.172927	-42.507065	293.18	-727
6	GUIDE	used	7.31	1221	1.000	0.199	0.114	0.094	0.156	59.064419	-43.115886	-1197.29	-2358
7	GUIDE	used	7.03	1220	1.000	-0.023	-0.089	0.134	0.228	60.007681	-42.390141	2345.85	-1663

2.4 Star Slots

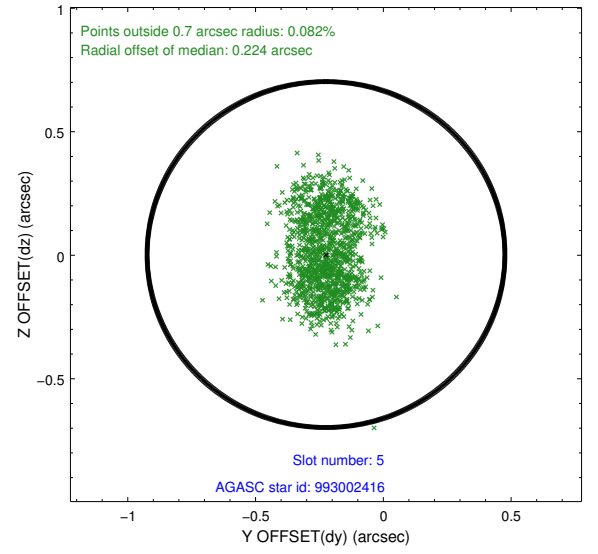
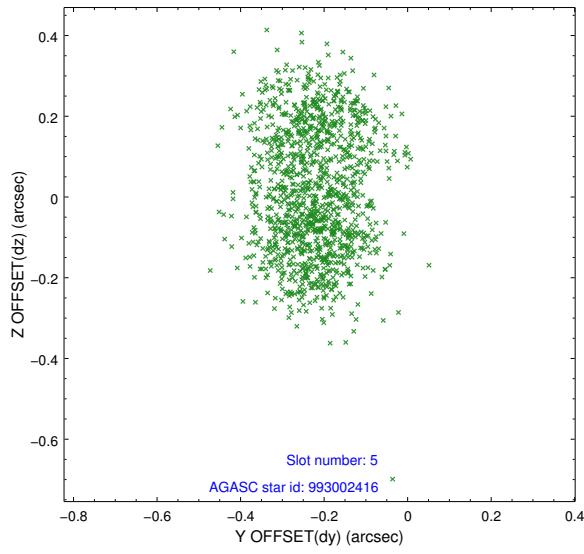
2.4.1 Slot 3



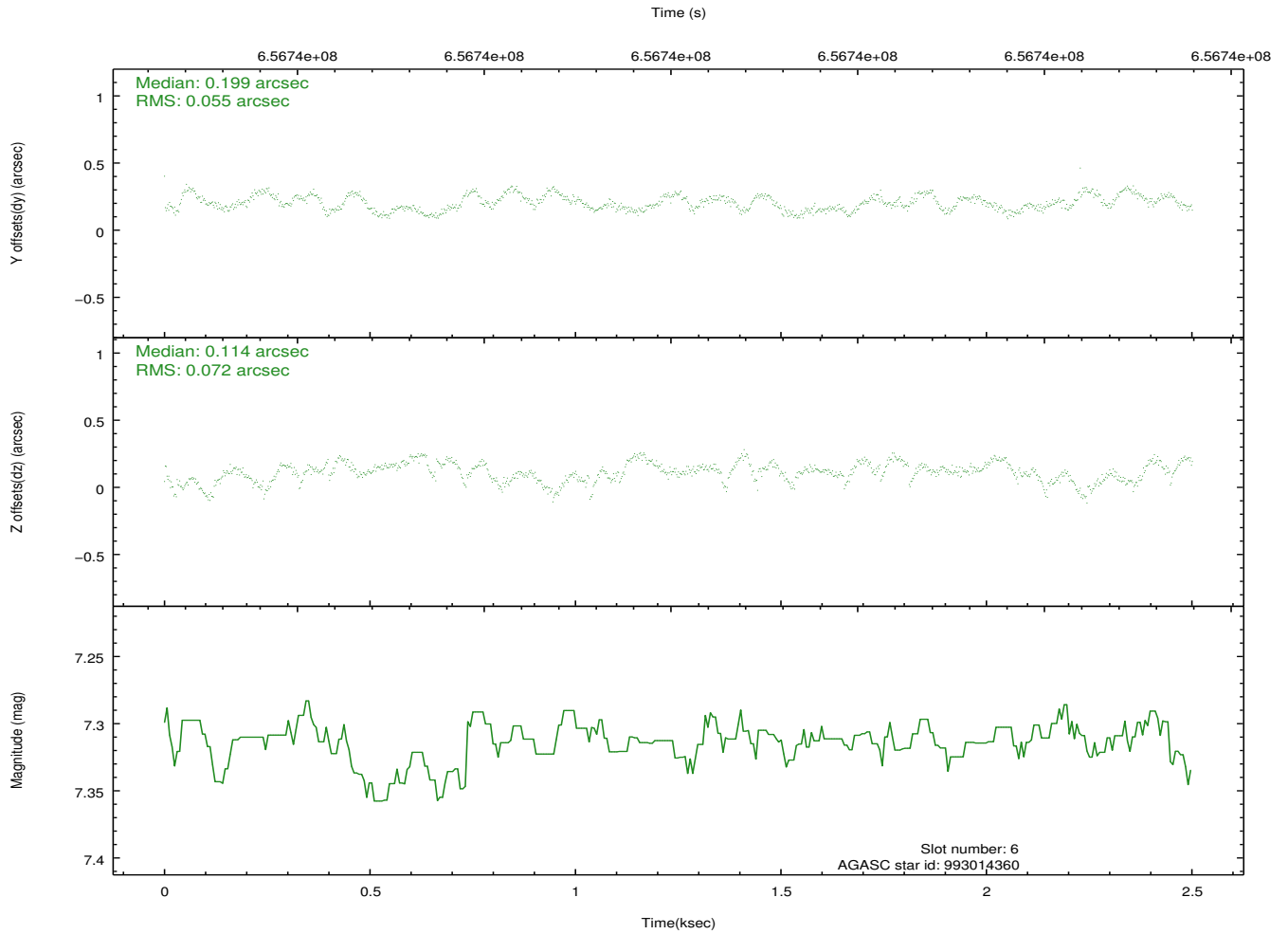
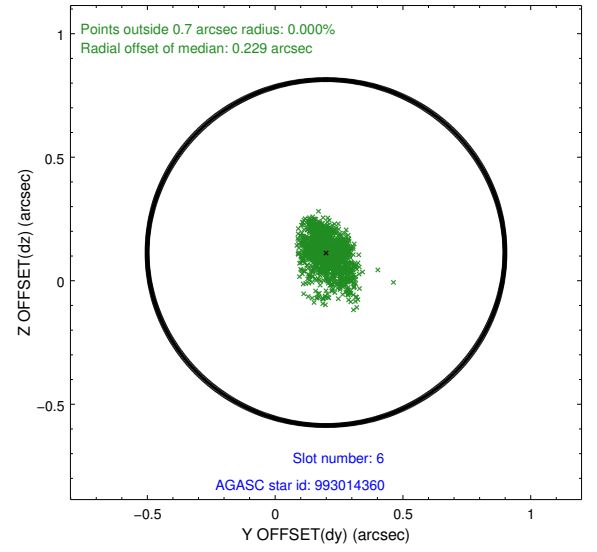
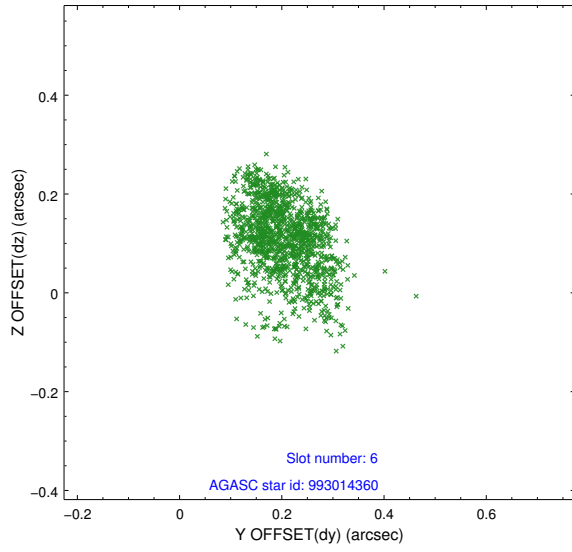
2.4.2 Slot 4



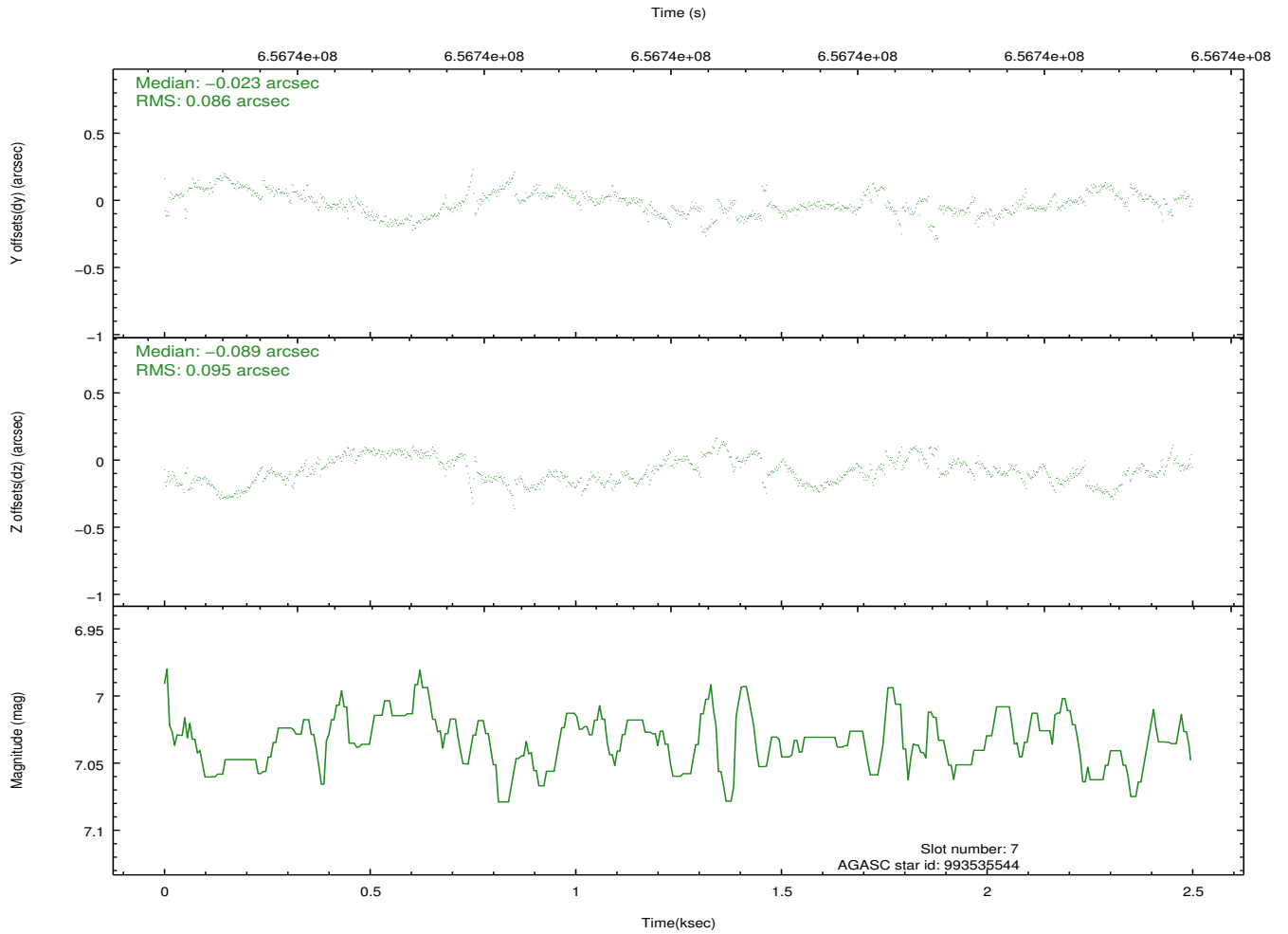
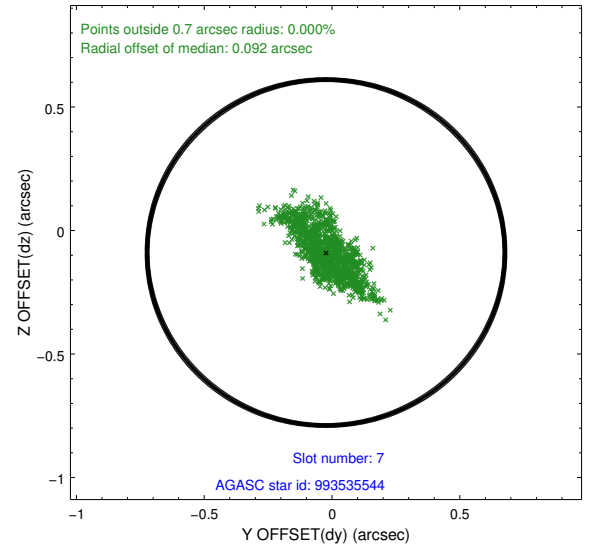
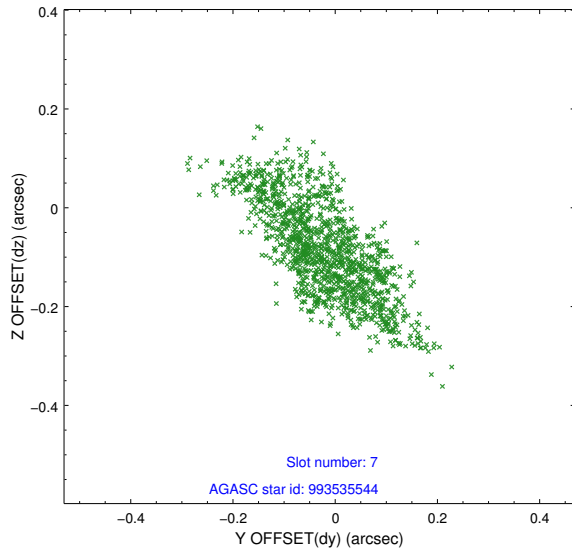
2.4.3 Slot 5



2.4.4 Slot 6

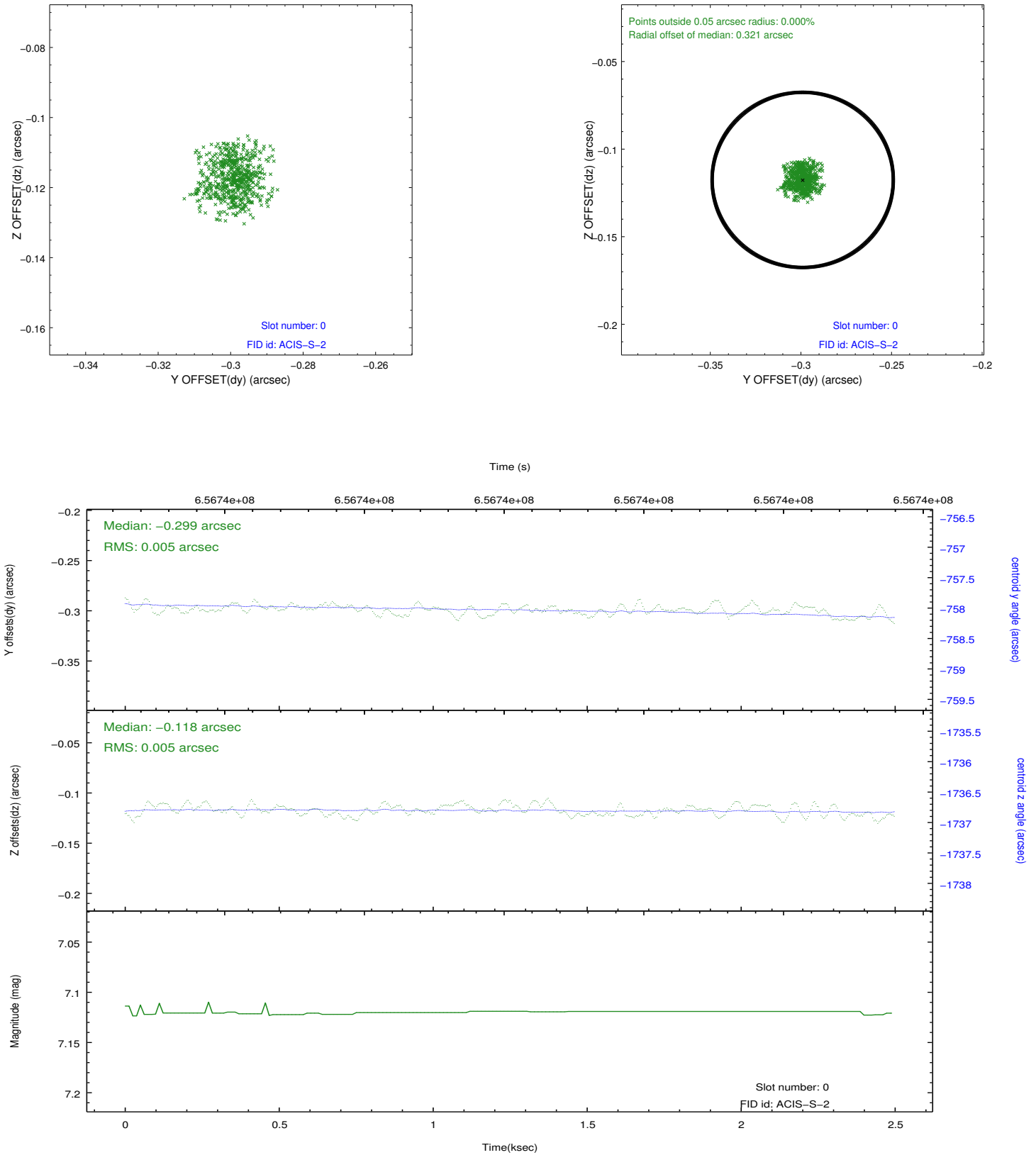


2.4.5 Slot 7

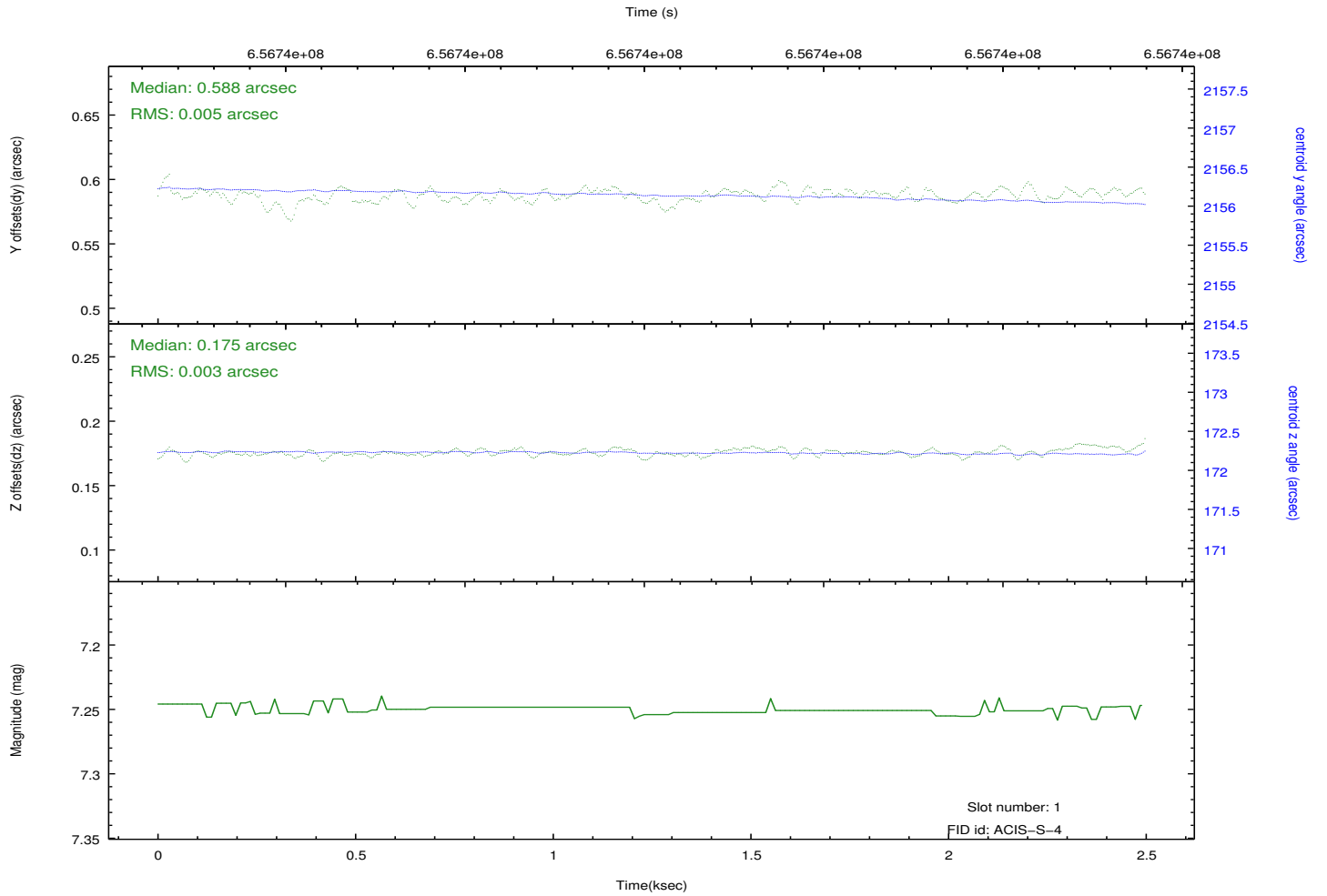
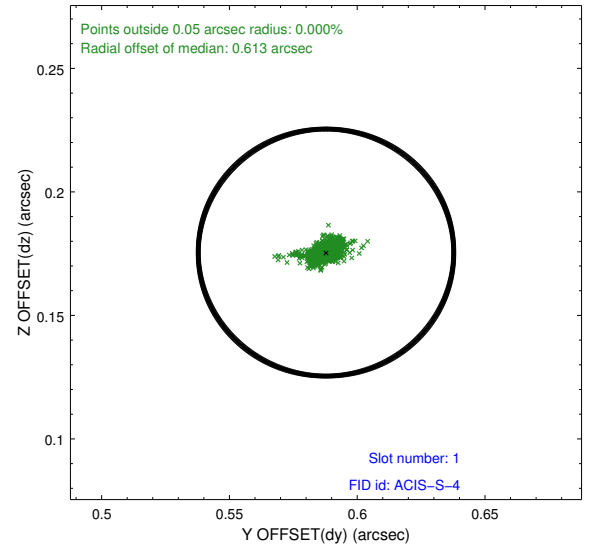
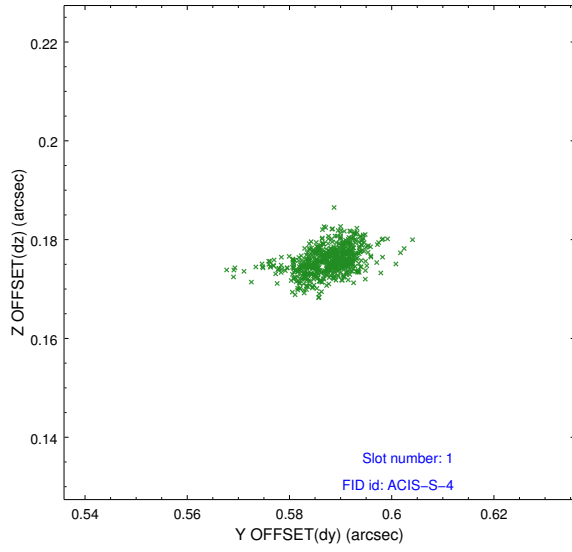


2.5 FID Slots

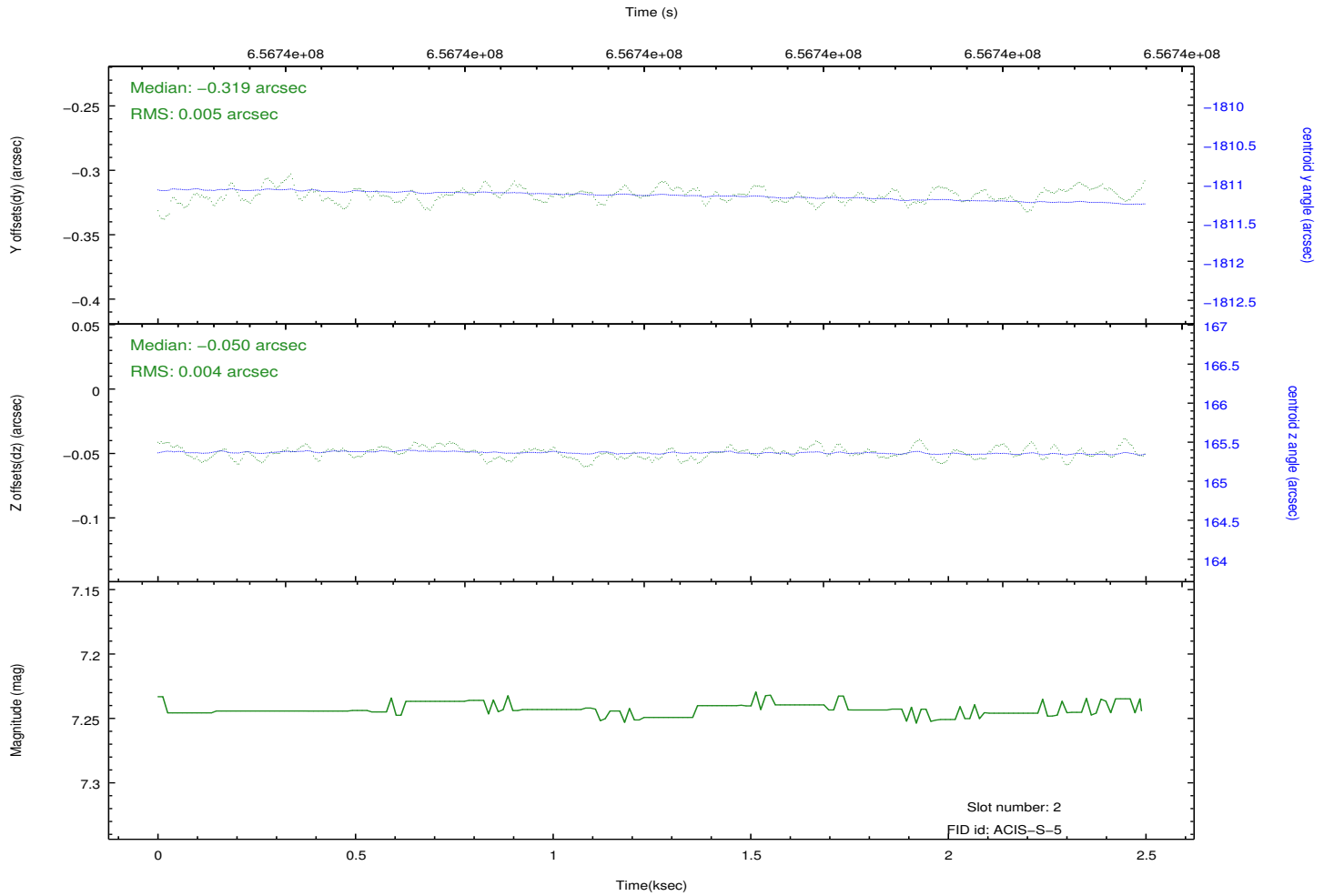
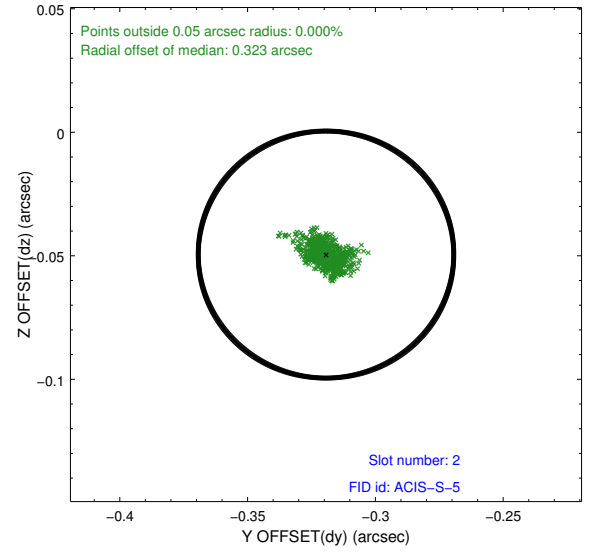
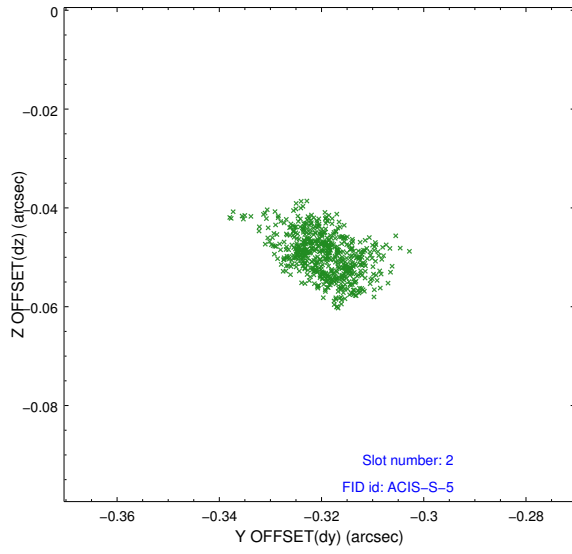
2.5.1 Slot 0



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	2.079

A.2 Comments

One optional chip was dropped.