

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22627 - L2 Version 1
Chandra X-Ray Center

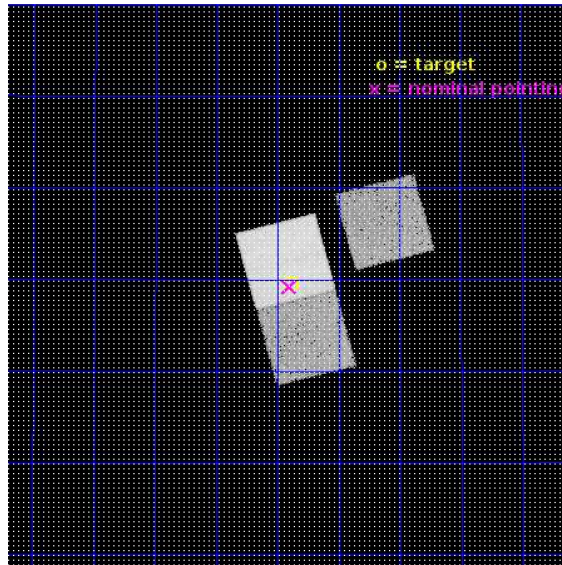
L2 Processing Date : Dec 29 2019

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

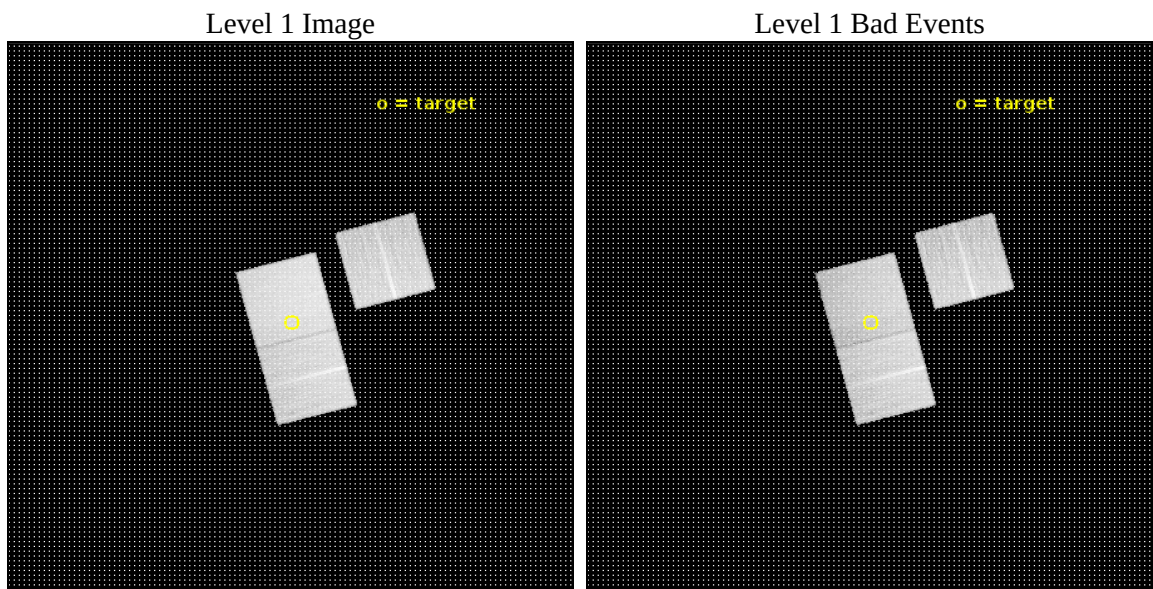
seq_num	704011	Sequence number
obs_id	22627	Observation id
title	XRAYING THE UNKNOWN 3CR EXTRAGALACTIC SKY	Proposal title
observer	Francesco Massaro	Principal investigator
object	3CR 131	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	73.346667	Observer's specified target RA [deg]
dec_targ	31.492611	Observer's specified target Dec [deg]
ra_nom	73.350771191834	Nominal RA [deg]
dec_nom	31.487172707809	Nominal Dec [deg]
roll_nom	255.22187358869	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24114.900185585	Sum of GTIs [s]
livetime	23799.821261529	Livetime [s]
ontime3	24114.840319037	Sum of GTIs [s]
ontime6	24114.8813591	Sum of GTIs [s]
ontime7	24114.900185585	Sum of GTIs [s]
l2events	136085	Number of level 2 events



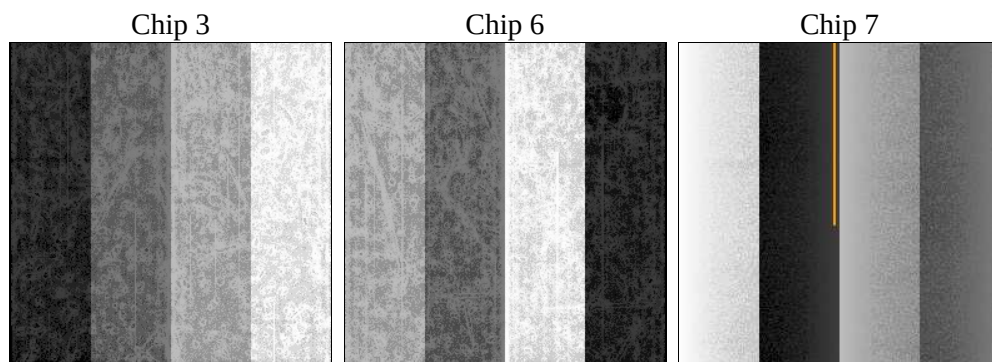
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	24114.900185585	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime3	24114.840319037	Sum of GTIs [s]
date	2019-12-29T22:06:06	Date and time of file creation	ontime6	24114.8813591	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	24114.900185585	Sum of GTIs [s]
			l1events	615584	Number of level 1 events

2.1.4 Events

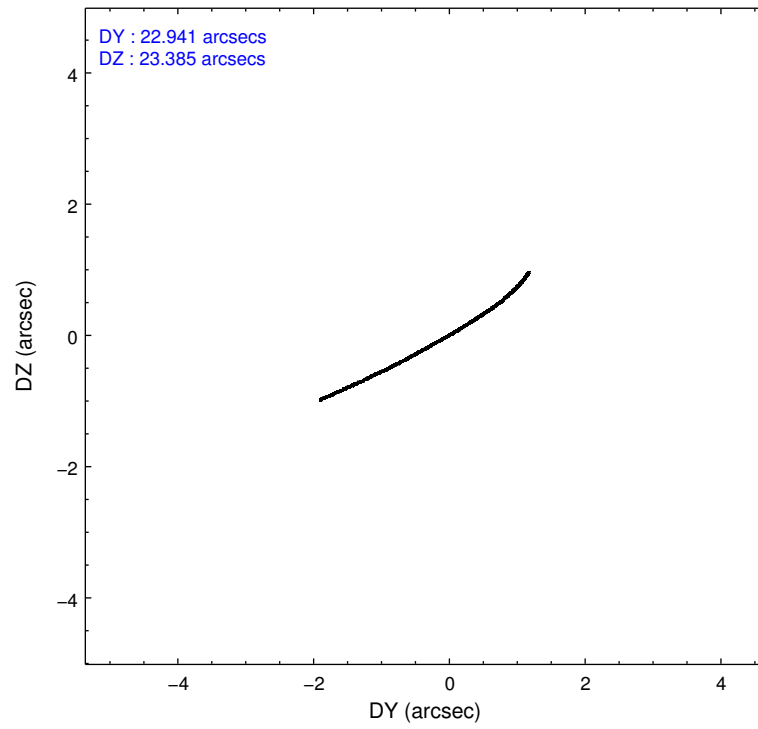
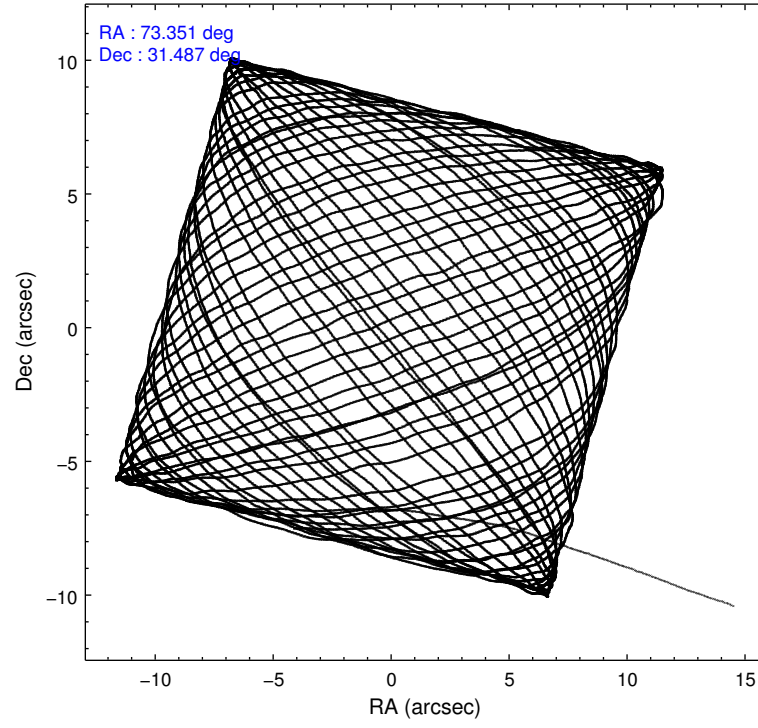
	ccd 3	ccd 6	ccd 7
level 1 events	179375	196814	239395
rejected events	160746	175659	136468
rejected %	89%	89%	57%

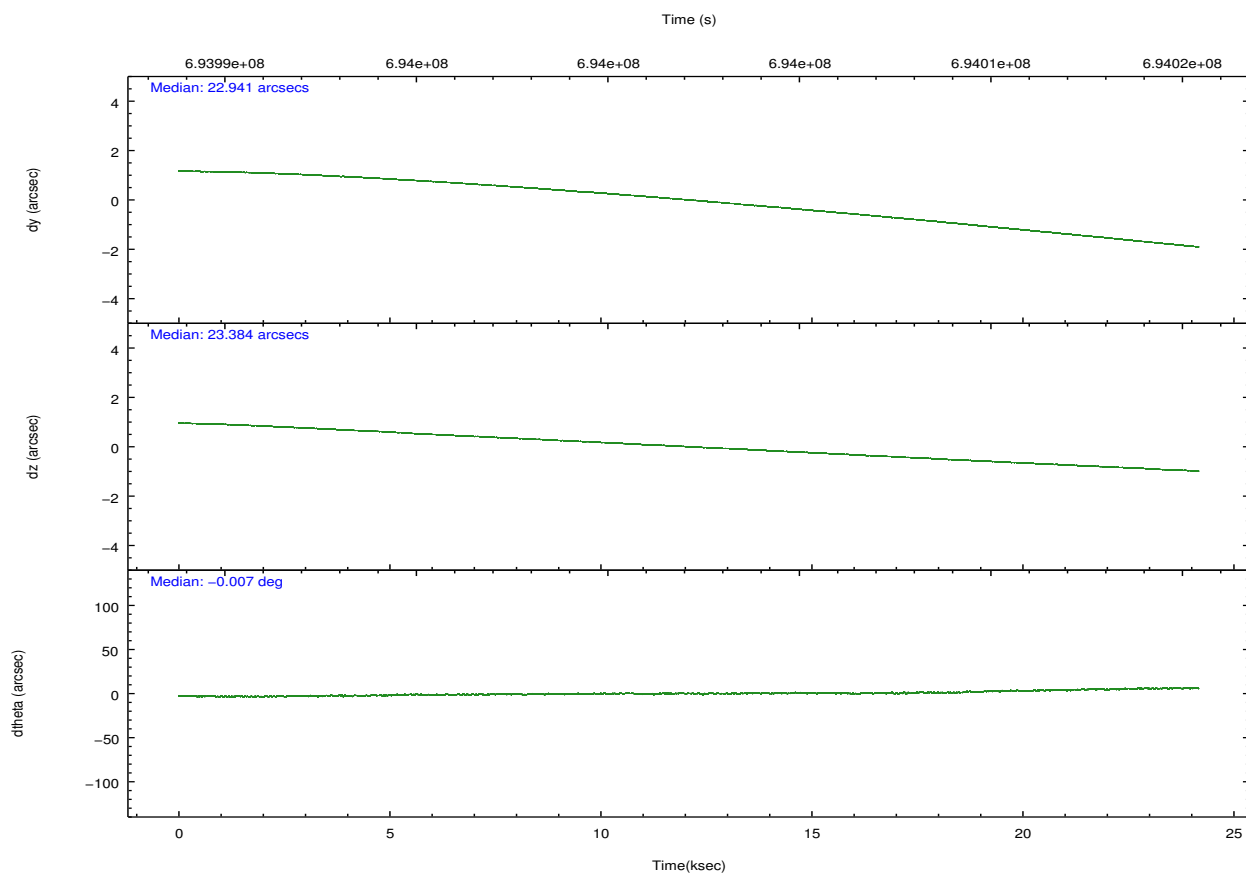
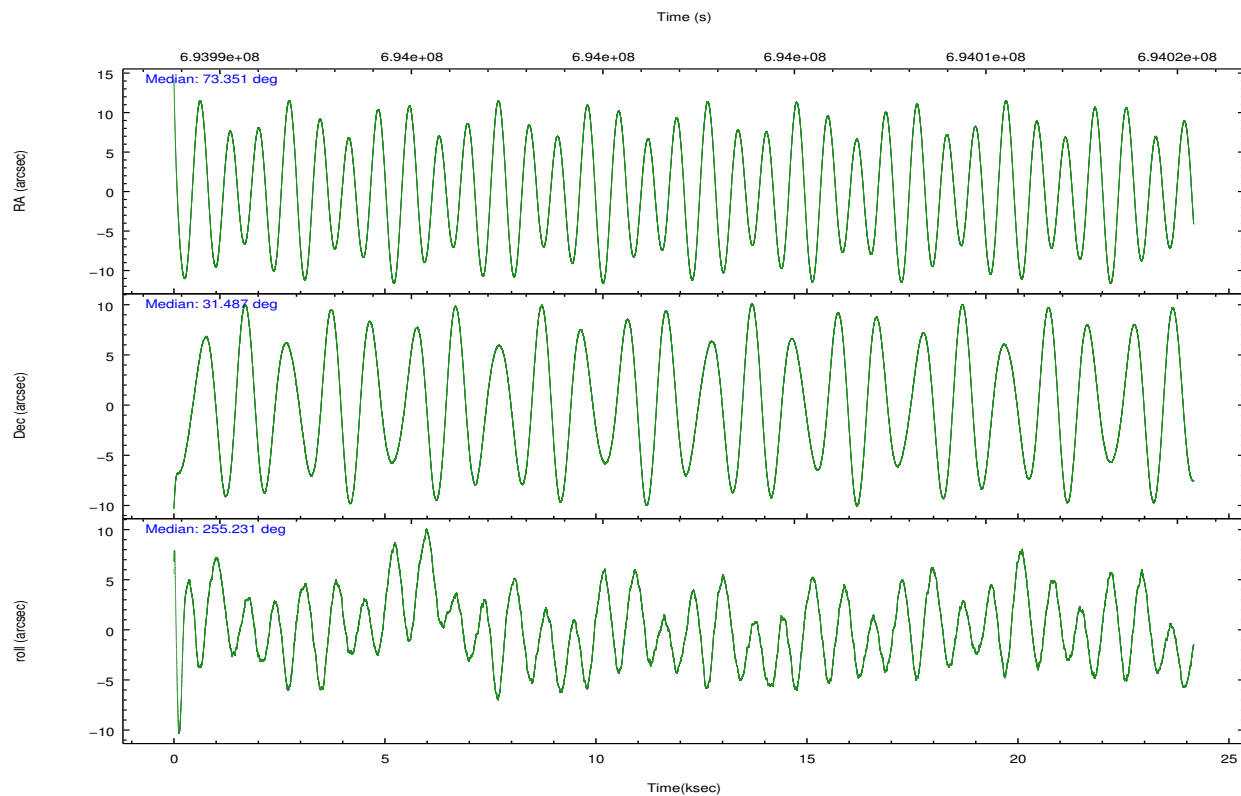
	ccd 3	ccd 6	ccd 7
grade 0 events	6310	6389	8303
	3%	3%	3%
grade 1 events	112	77	338
	0%	0%	0%
grade 2 events	4111	5564	21708
	2%	2%	9%
grade 3 events	2037	1915	7881
	1%	0%	3%
grade 4 events	2006	1879	7664
	1%	0%	3%
grade 5 events	8392	8194	23085
	4%	4%	9%
grade 6 events	4173	5414	57404
	2%	2%	23%
grade 7 events	152234	167382	113012
	84%	85%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-367	ACIS-367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	73.341896	73.35077119183391	CCD I2 on	O1	N
[deg] Pointing Dec	31.513570	31.48717270780913	CCD I3 on	O2	Y
[deg] Pointing Roll	255.069870	255.2218735886949	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	693990184.184000	693989314.49138	CCD S5 on	N	N
Observation start date	2019-12-29T07:01:55	2019-12-29T06:48:34	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	694014184.184000	694015579.09296	On-chip summing requested	N	N
Observation end date	2019-12-29T13:41:55	2019-12-29T14:06:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



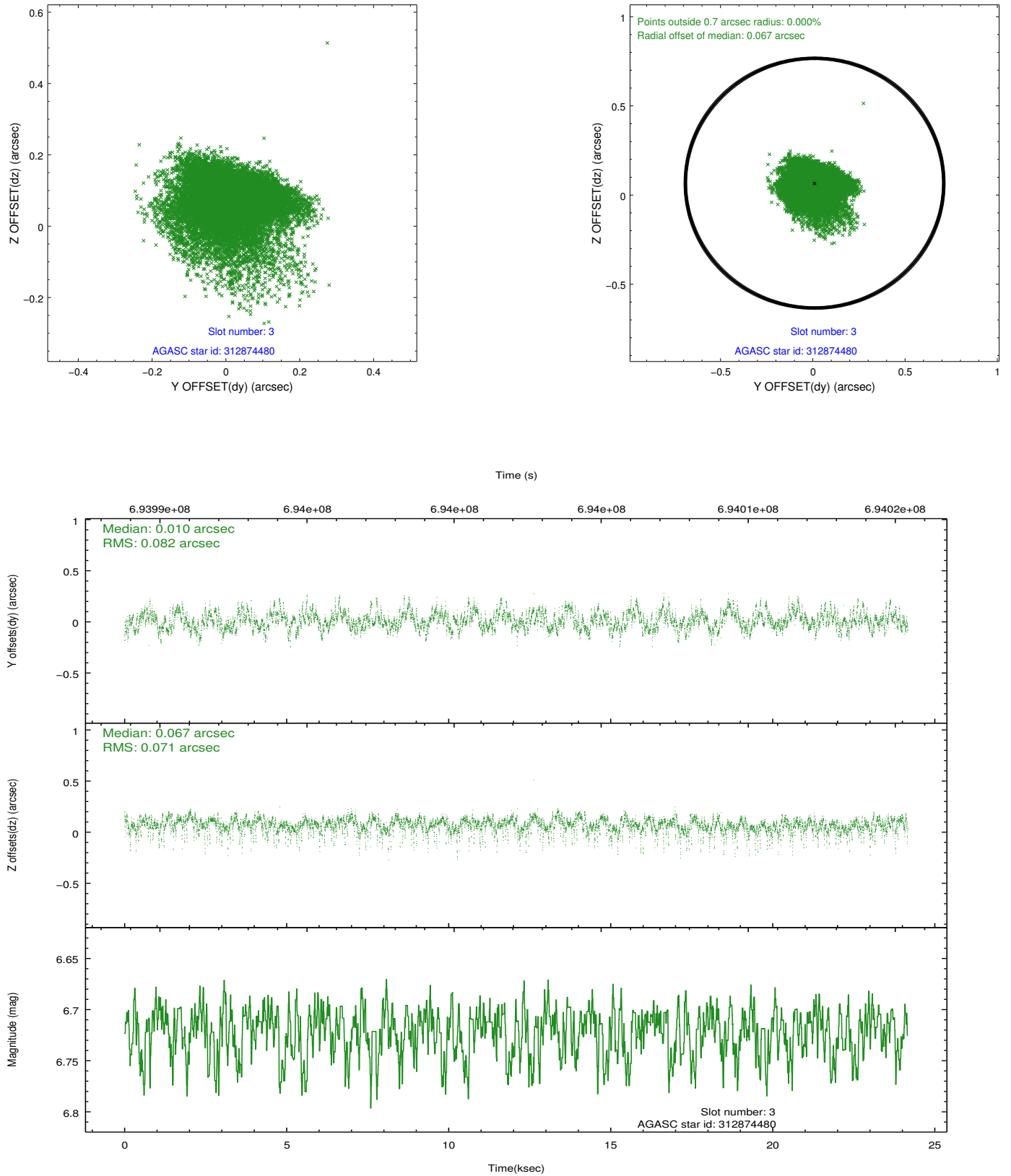


Slot Statistics

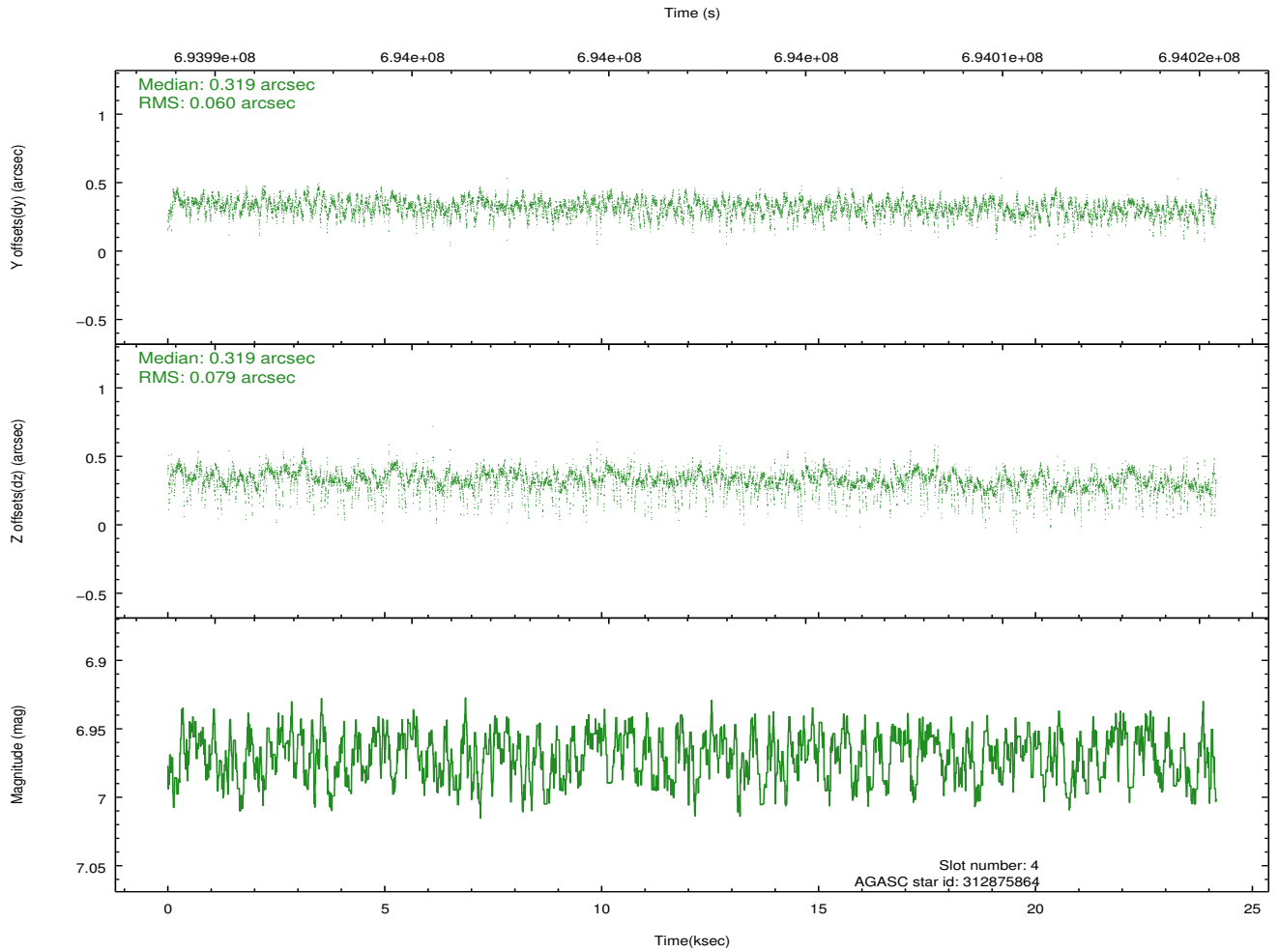
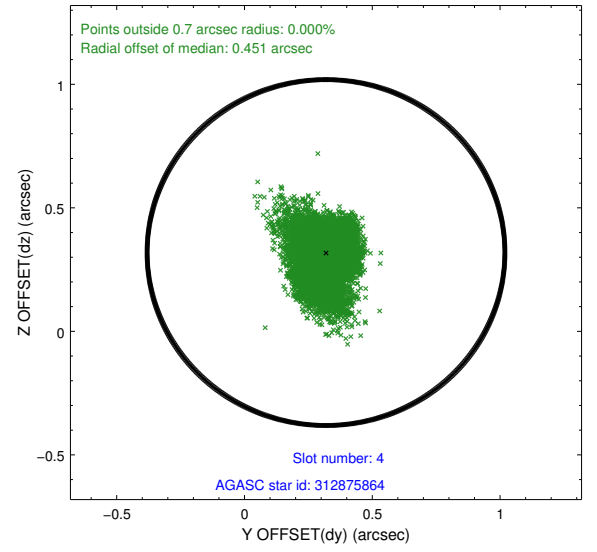
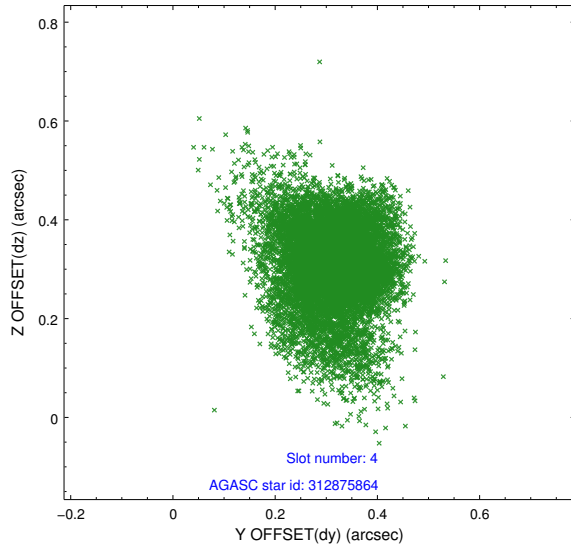
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.13	5893	1.000	-0.390	-0.288	0.044	0.086	0.000000	0.000000	-776.32	-1745
1	FID		ACIS-S-4	7.18	5894	1.000	0.887	0.268	0.039	0.070	0.000000	0.000000	2138.09	163
2	FID		ACIS-S-5	7.18	5895	1.000	-0.526	0.033	0.041	0.074	0.000000	0.000000	-1829.21	157
3	GUIDE	used	312874480	6.72	11789	1.000	0.010	0.067	0.112	0.192	73.043958	31.164172	1453.04	-562
4	GUIDE	used	312875864	6.97	11787	1.000	0.319	0.319	0.098	0.187	72.700405	31.565850	320.45	-1950
5	GUIDE	used	313400024	7.88	11785	1.000	0.294	0.372	0.130	0.215	73.116061	31.986501	-1467.54	-1104
6	GUIDE	used	313400584	7.83	11785	1.000	-0.375	-0.153	0.123	0.197	73.858346	31.958770	-1958.45	1111
7	GUIDE	used	312872256	8.00	11780	1.000	-0.256	-0.570	0.138	0.233	73.250802	30.830210	2449.38	361

2.4 Star Slots

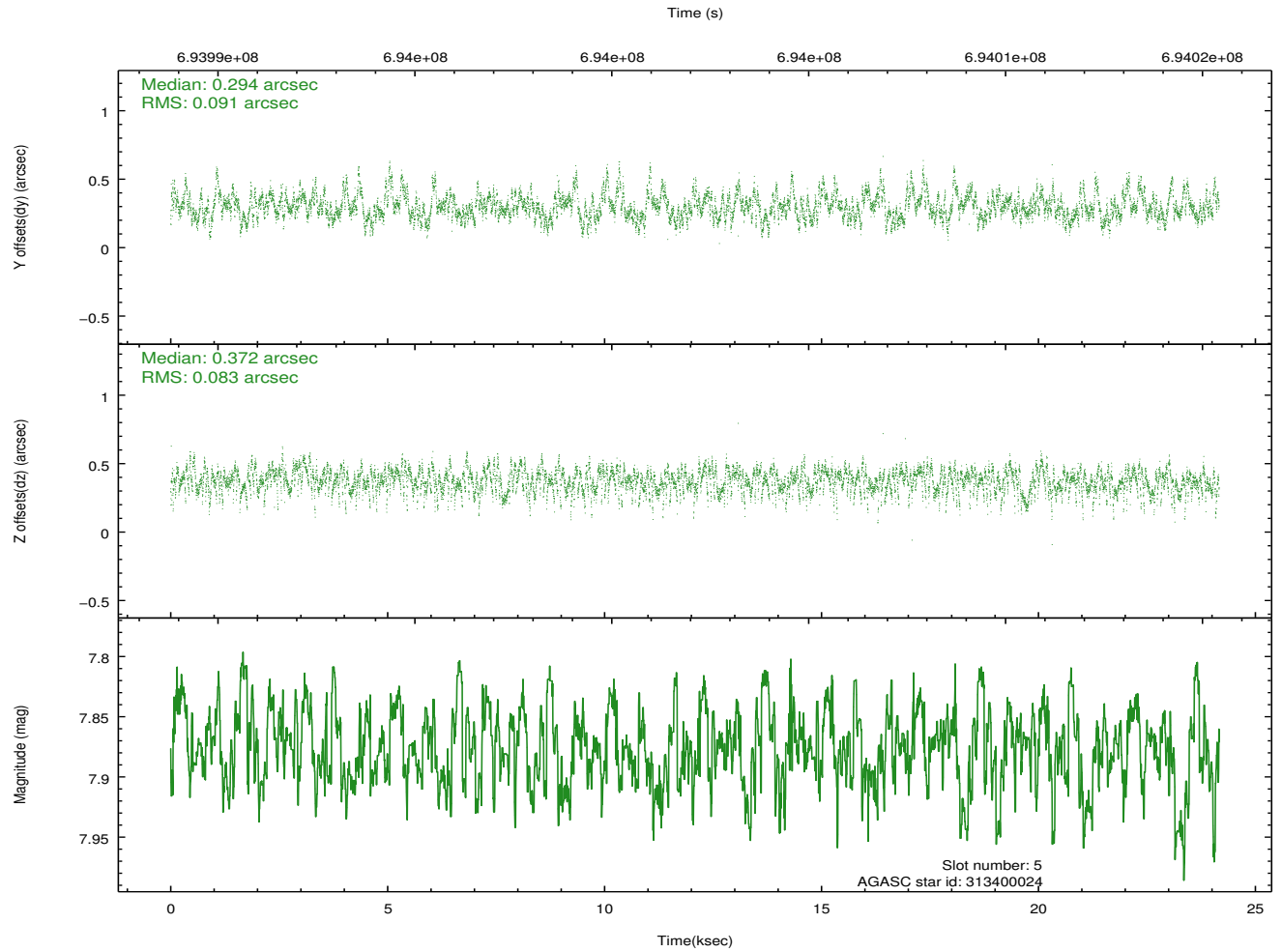
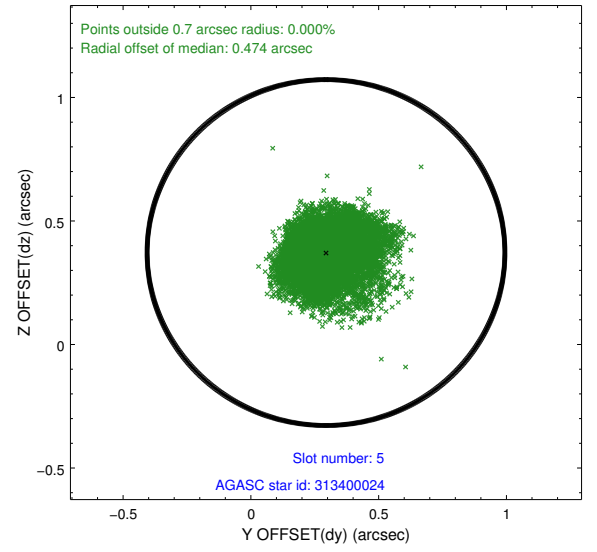
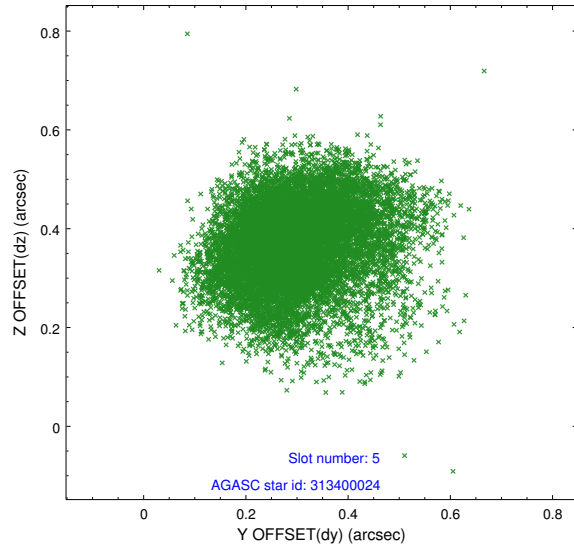
2.4.1 Slot 3



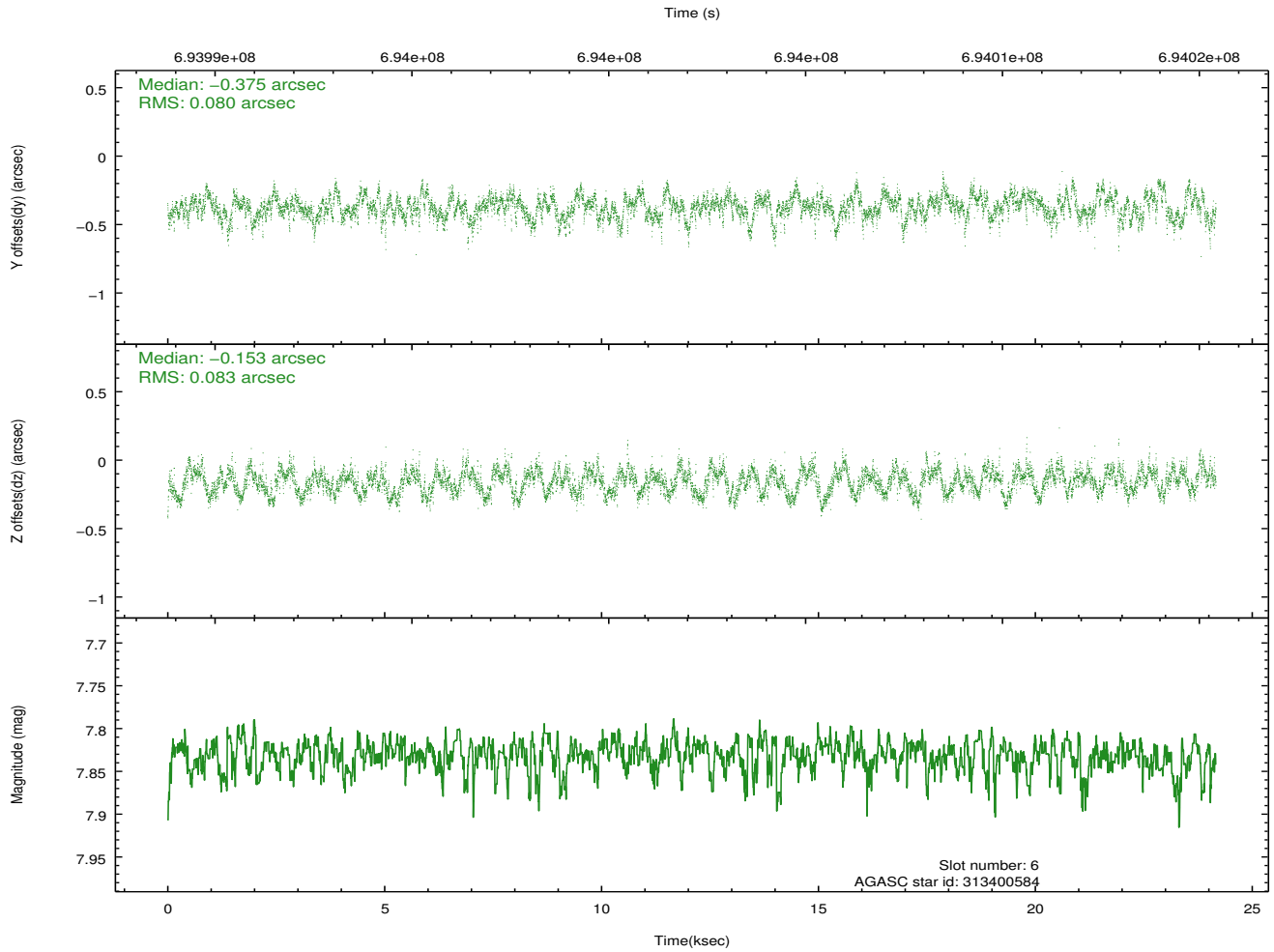
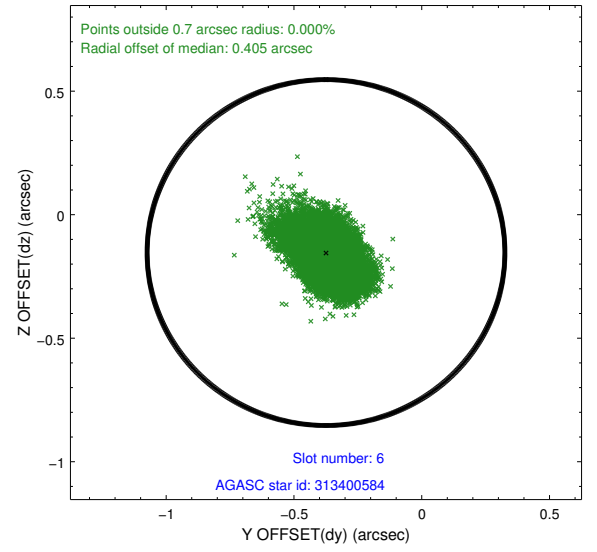
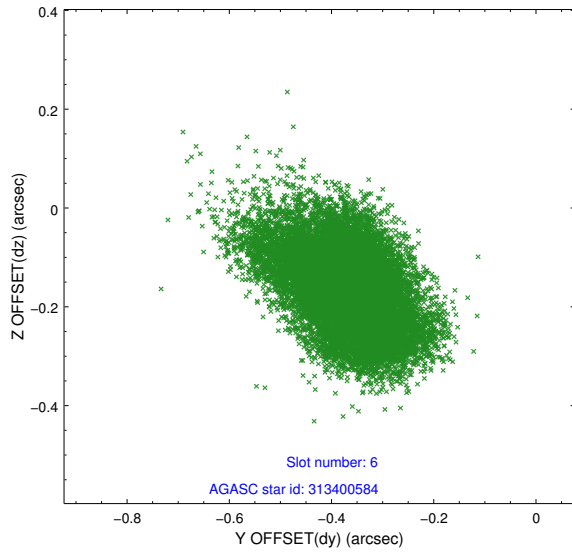
2.4.2 Slot 4



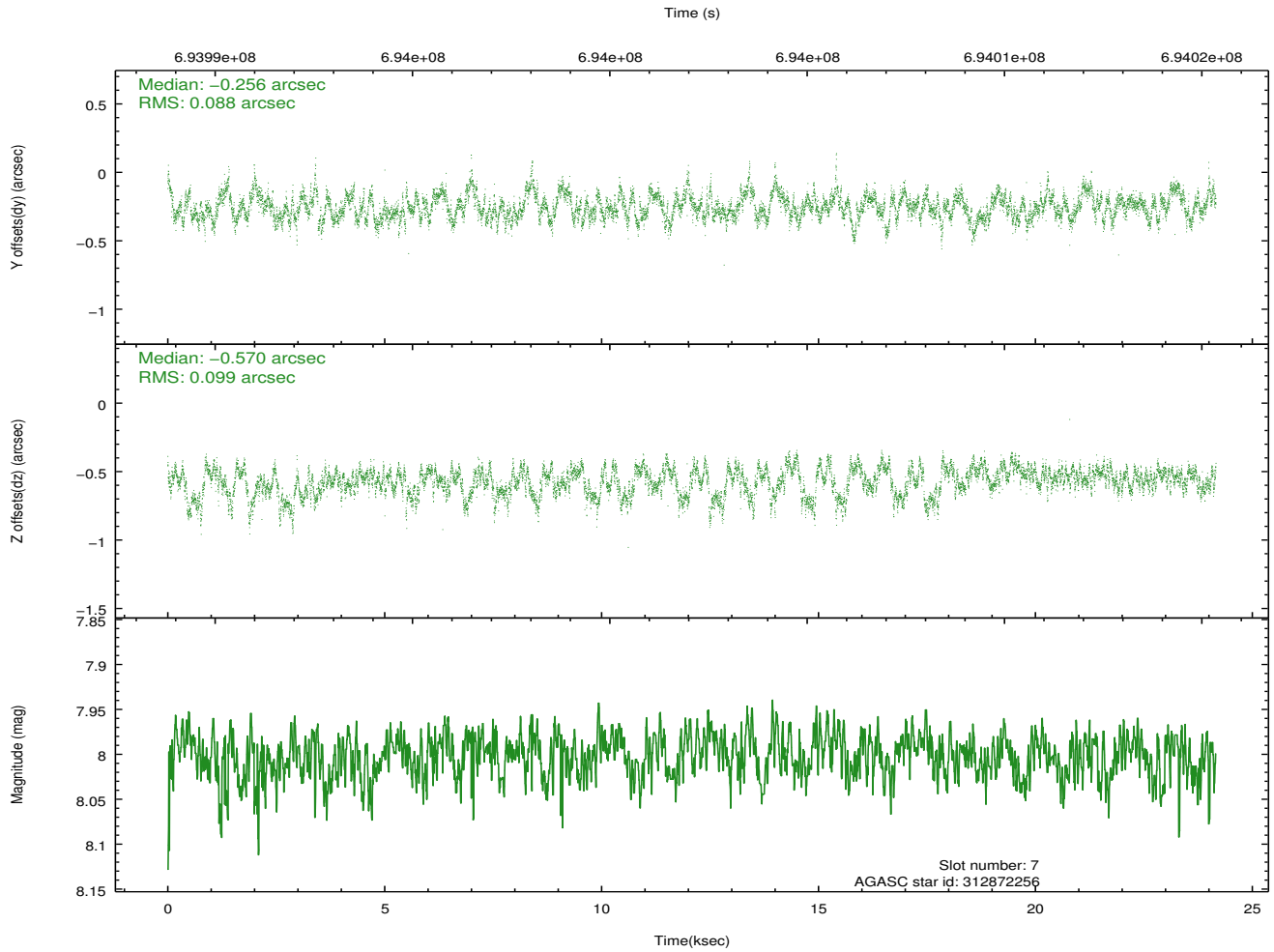
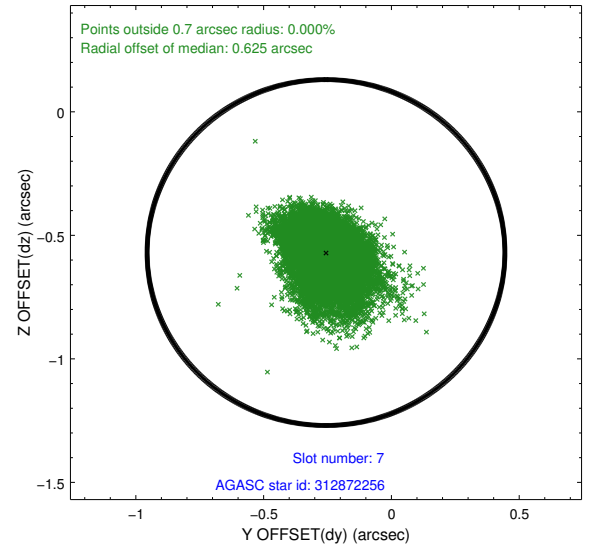
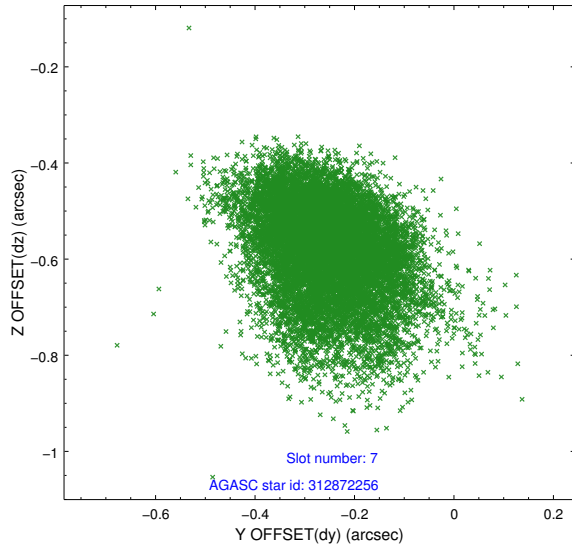
2.4.3 Slot 5



2.4.4 Slot 6

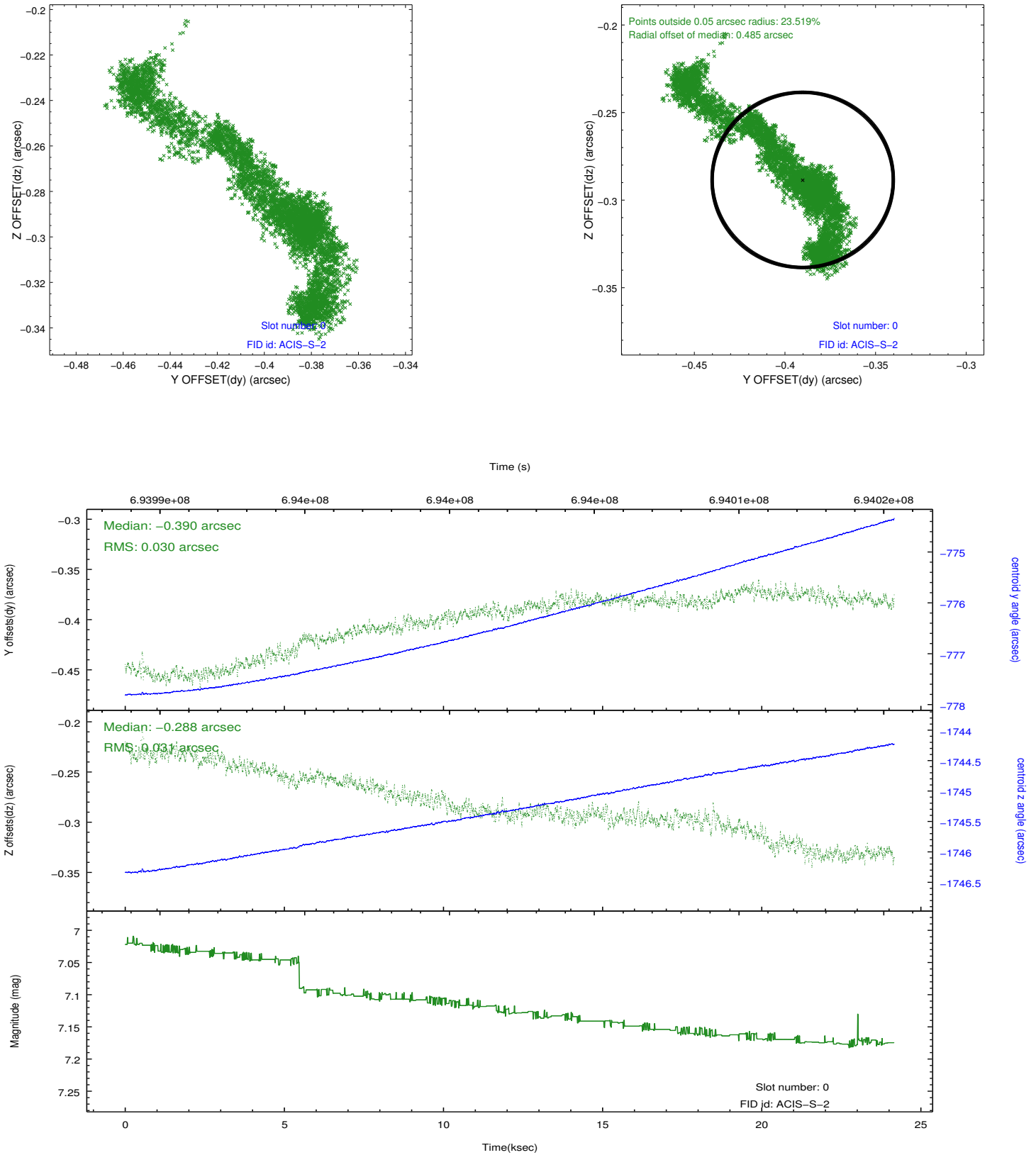


2.4.5 Slot 7

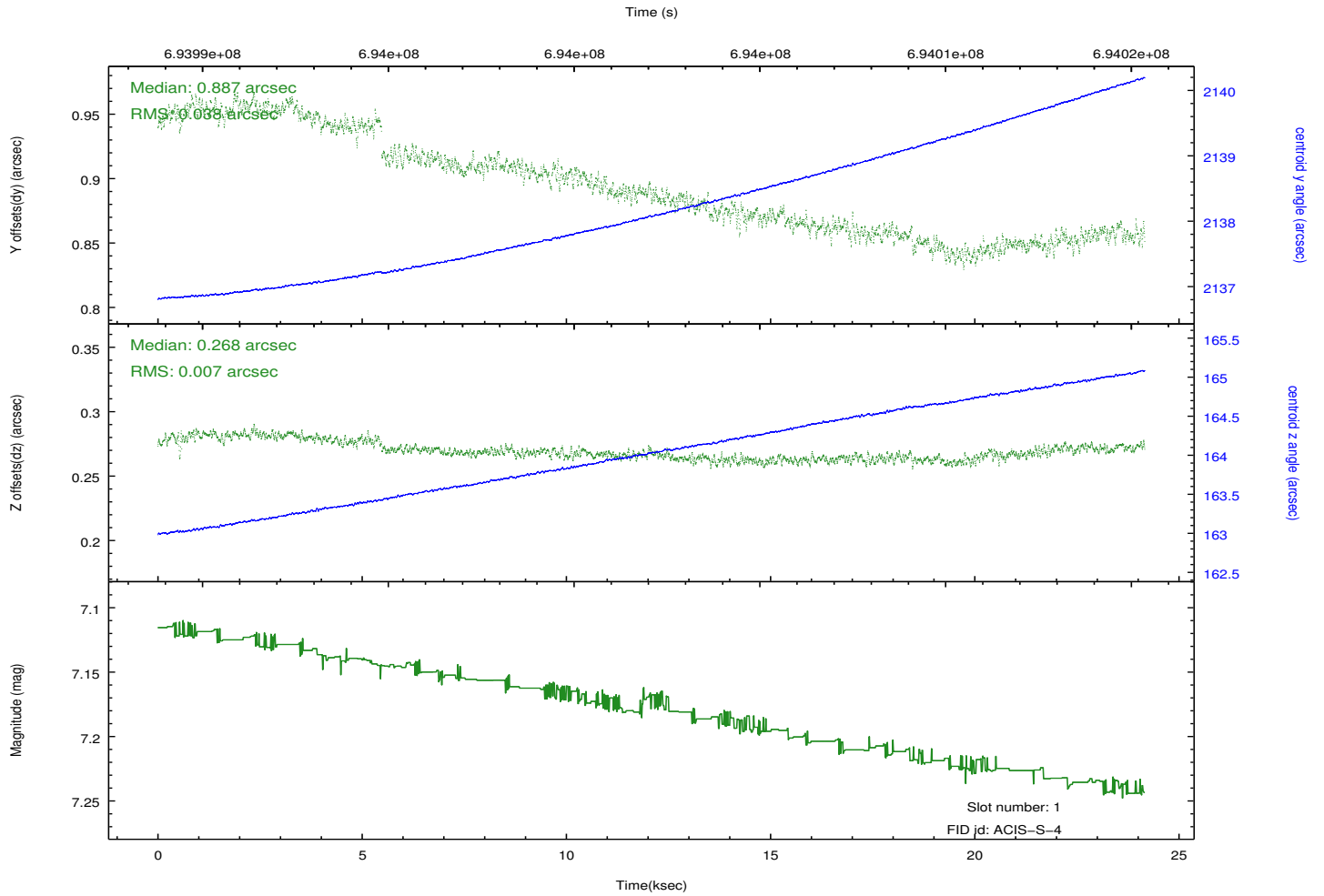
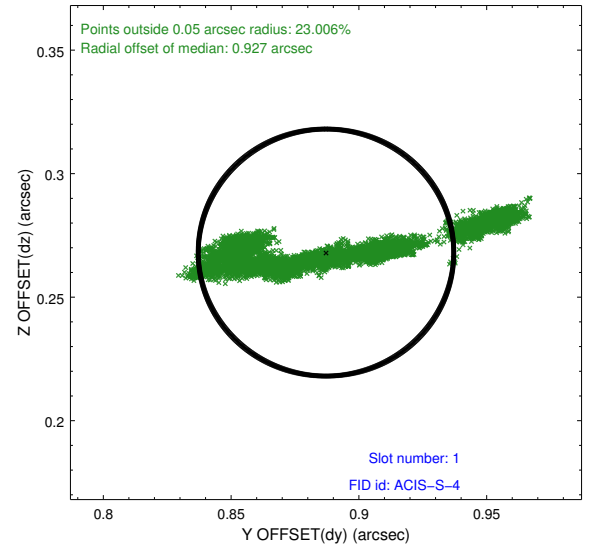
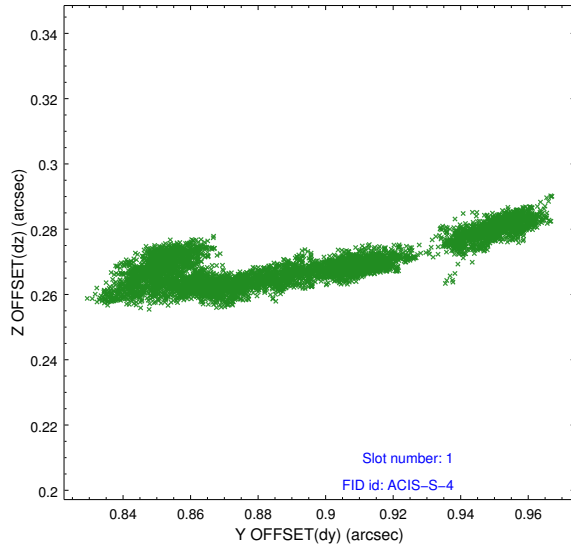


2.5 FID Slots

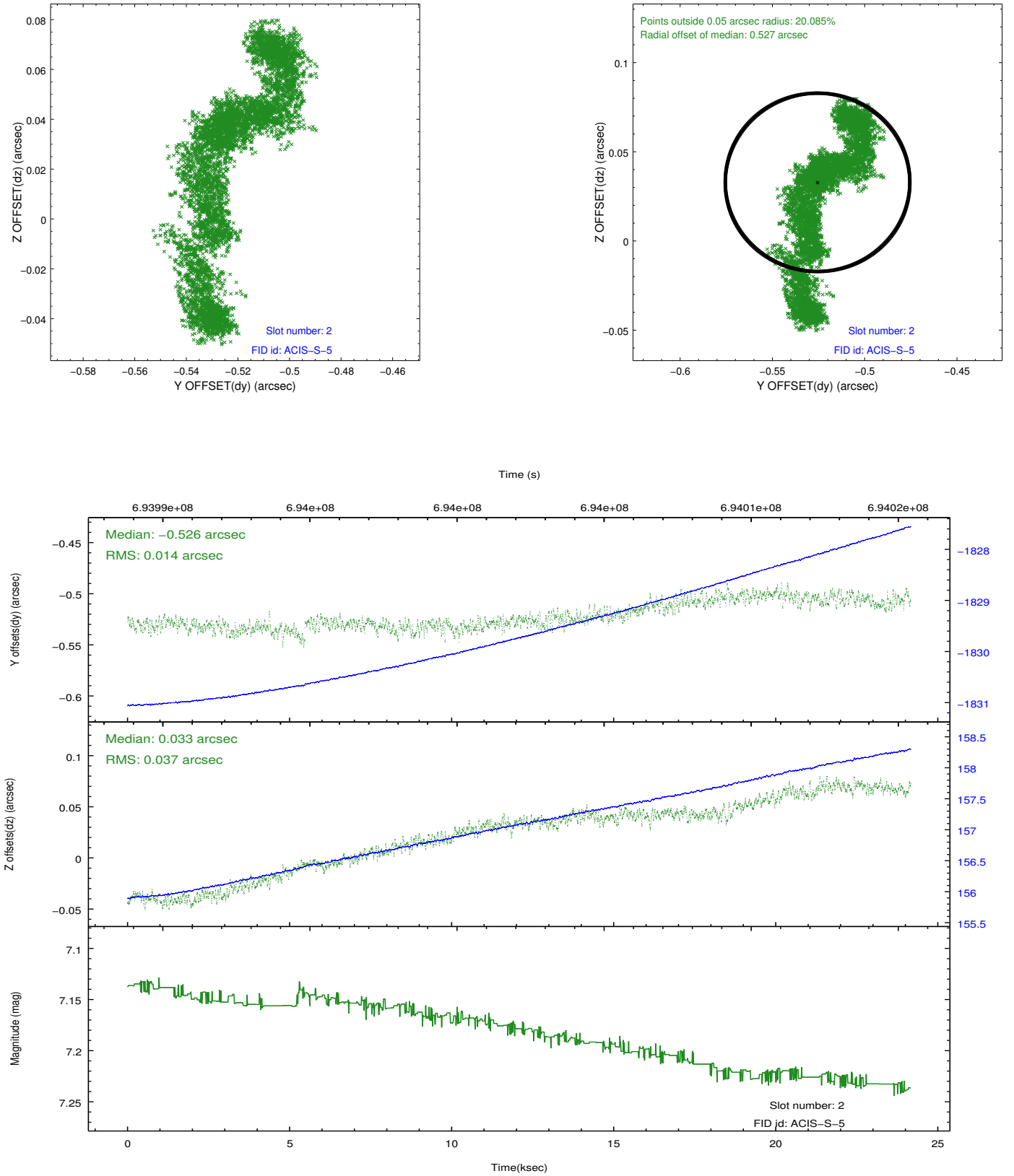
2.5.1 Slot 0



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)	2020.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.114900185585

A.2 Comments

One optional chip was dropped.