

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21273 - L2 Version 1
Chandra X-Ray Center

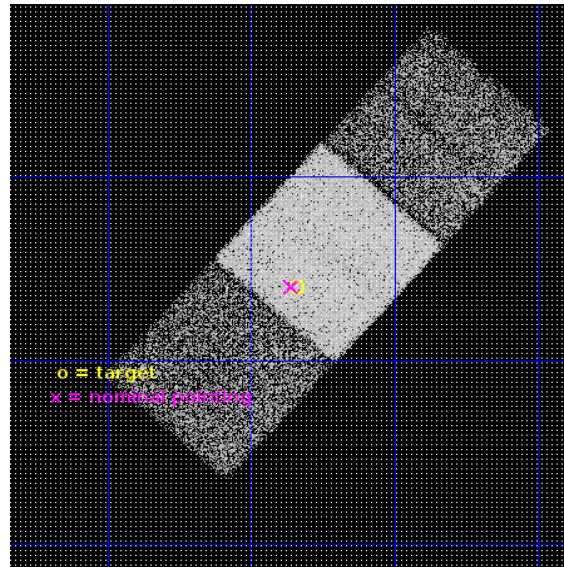
L2 Processing Date : Nov 11 2018

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1 Front

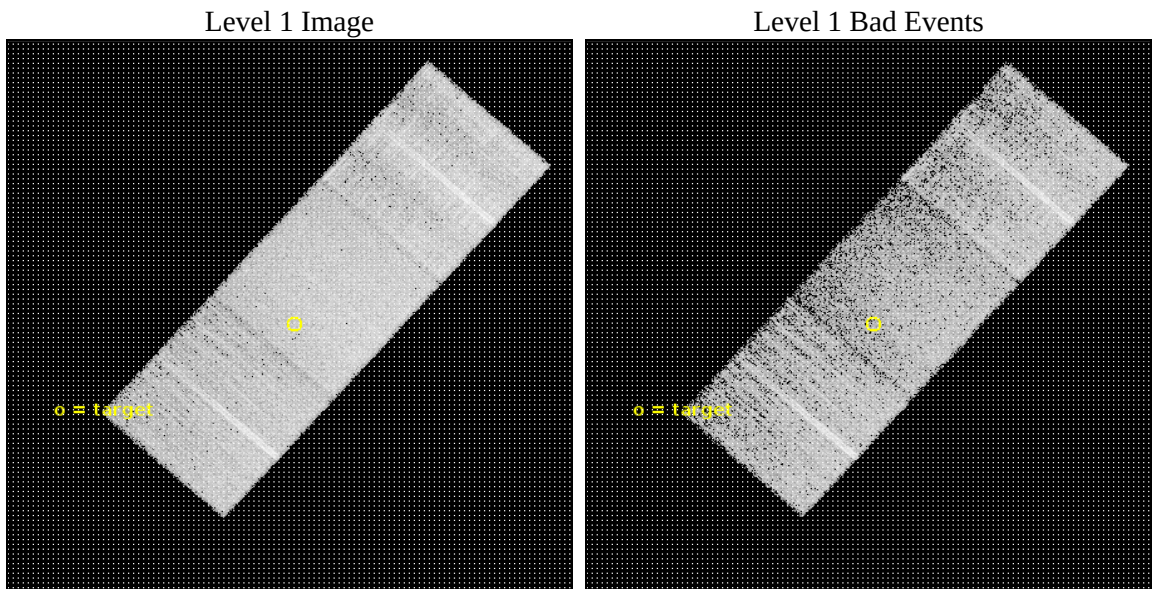
seq_num	300405	Sequence number
obs_id	21273	Observation id
title	Two White Dwarfs with Massive Companions	Proposal title
observer	Mukremin Kilic	Principal investigator
object	J0147	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	26.835417	Observer's specified target RA [deg]
dec_targ	1.232944	Observer's specified target Dec [deg]
ra_nom	26.839865590628	Nominal RA [deg]
dec_nom	1.2336298420067	Nominal Dec [deg]
roll_nom	311.63447615041	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14111.200108647	Sum of GTIs [s]
livetime	13926.826890713	Livetime [s]
ontime6	14108.059018373	Sum of GTIs [s]
ontime7	14111.200108647	Sum of GTIs [s]
ontime8	14108.059018373	Sum of GTIs [s]
l2events	77225	Number of level 2 events



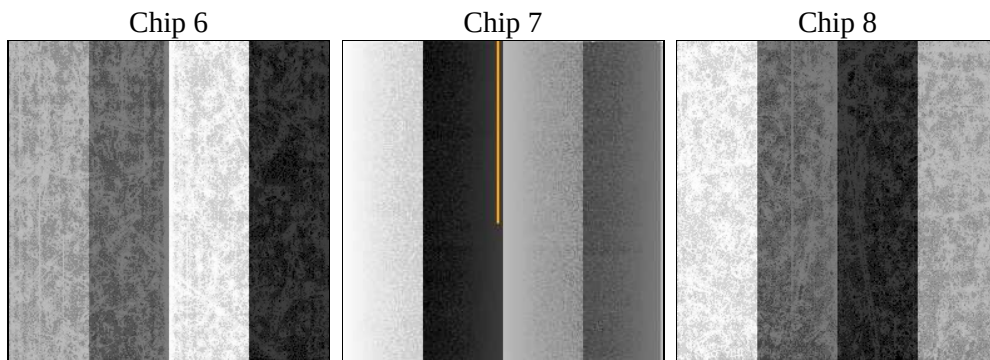
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	14111.200108647	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime6	14108.059018373	Sum of GTIs [s]
date	2018-11-11T22:08:39	Date and time of file creation	ontime7	14111.200108647	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	14108.059018373	Sum of GTIs [s]
			l1events	383015	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	109344	134914	138757
rejected events	97700	77196	105296
rejected %	89%	57%	75%

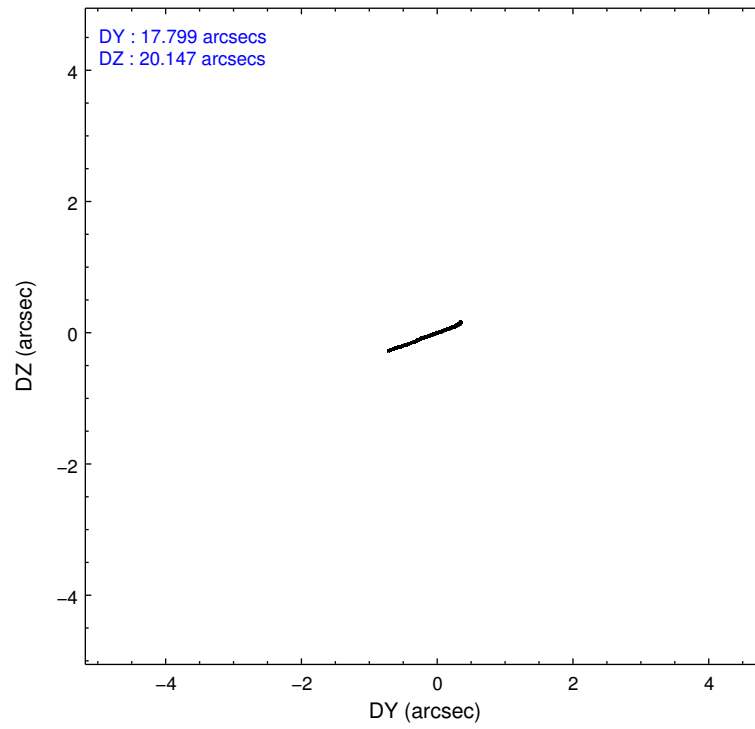
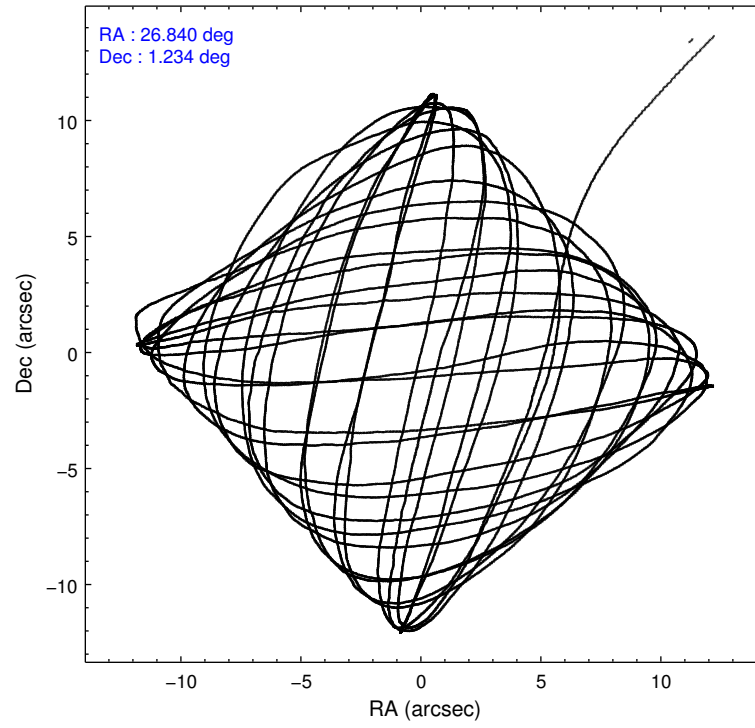
	ccd 6	ccd 7	ccd 8
grade 0 events	3242	4645	8847
	2%	3%	6%
grade 1 events	34	193	99
	0%	0%	0%
grade 2 events	3319	11825	8223
	3%	8%	5%
grade 3 events	948	4522	3437
	0%	3%	2%
grade 4 events	923	4406	3106
	0%	3%	2%
grade 5 events	4183	12979	7040
	3%	9%	5%
grade 6 events	3215	32326	9854
	2%	23%	7%
grade 7 events	93480	64018	98151
	85%	47%	70%

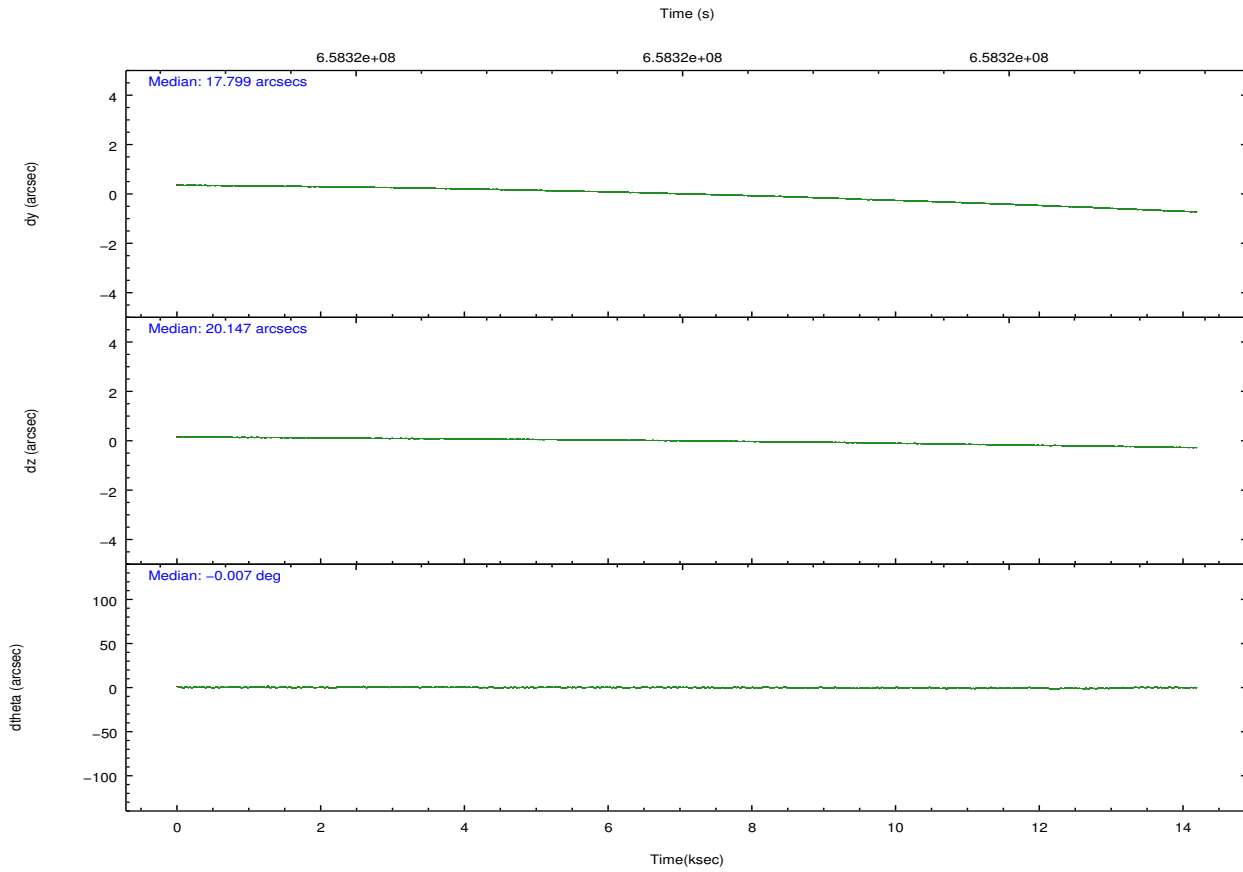
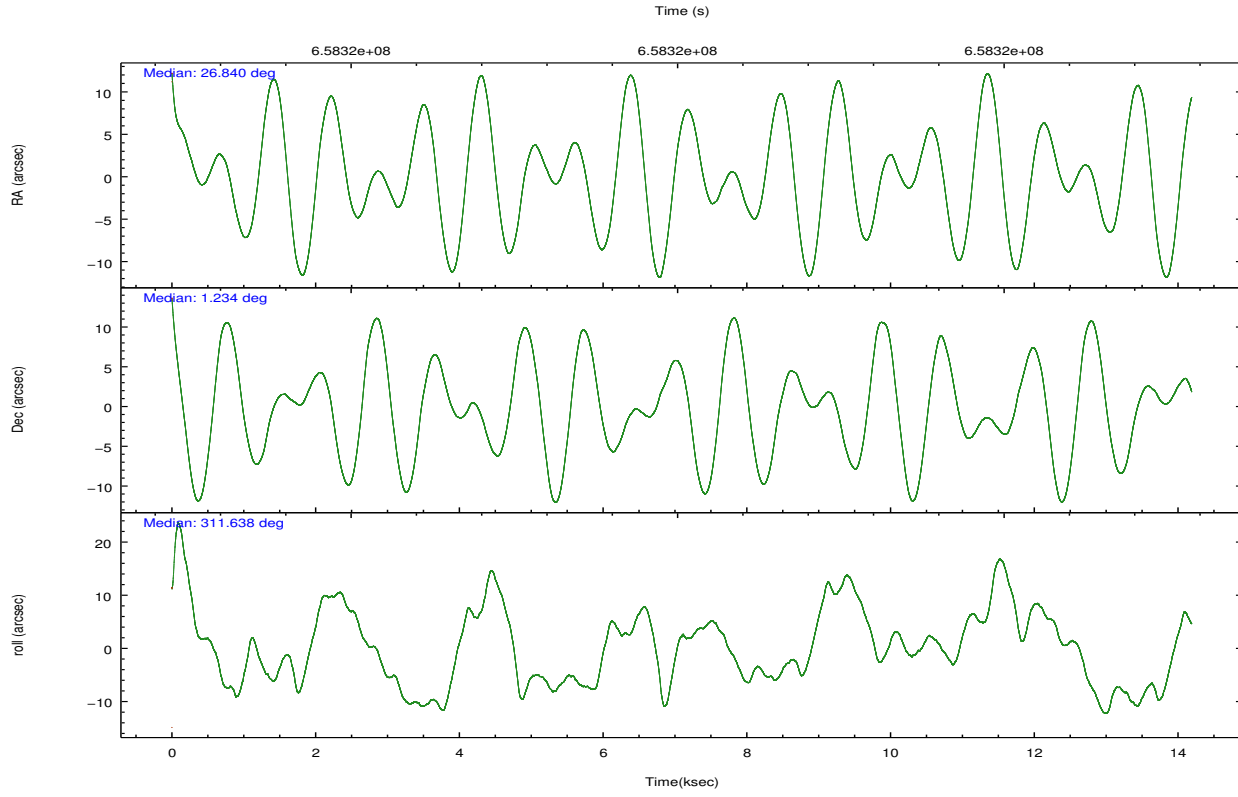
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	26.813682	26.83986559062836
[deg] Pointing Dec	1.241918	1.233629842006676
[deg] Pointing Roll	311.478438	311.6344761504134
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	658313169.184000	658312258.30134
Observation start date	2018-11-11T08:45:00	2018-11-11T08:30:58
[s] Observation end time (MET)	658327169.184000	658328213.4522901
Observation end date	2018-11-11T12:38:20	2018-11-11T12:56:53
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	Y	Y
CCD S5 on	O2	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	3.1

2.3 Aspect



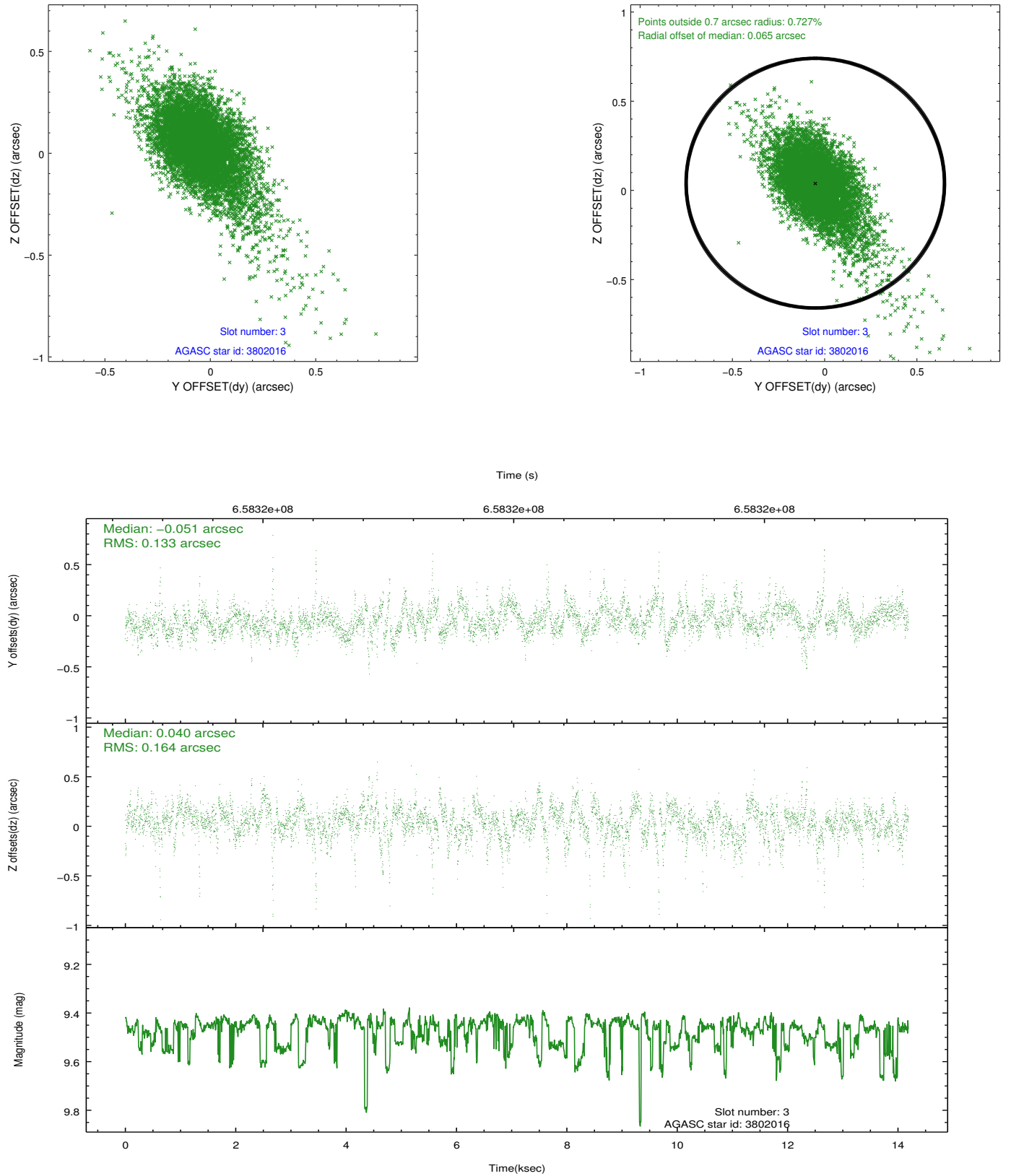


Slot Statistics

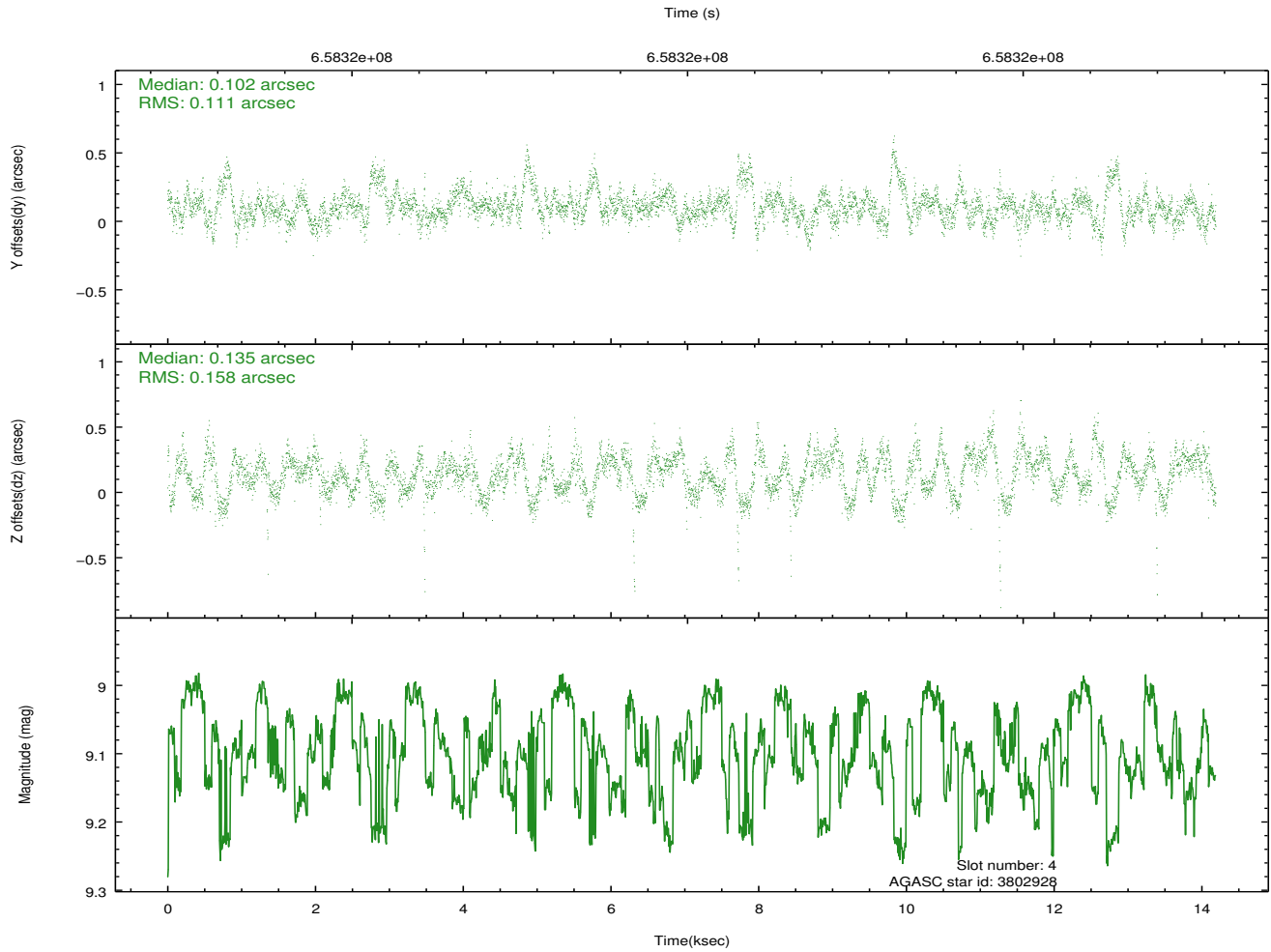
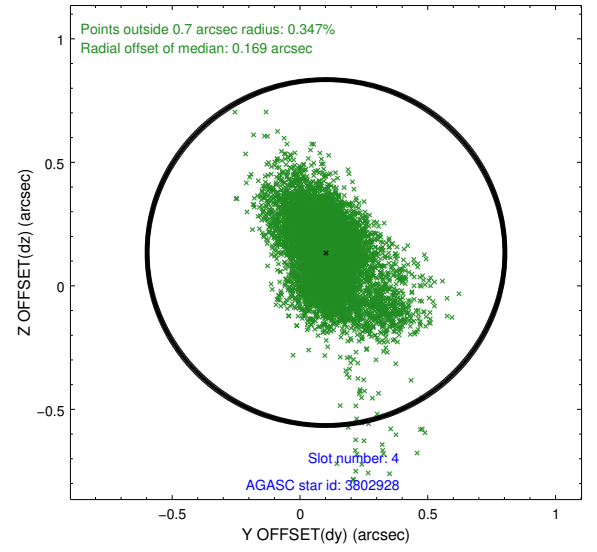
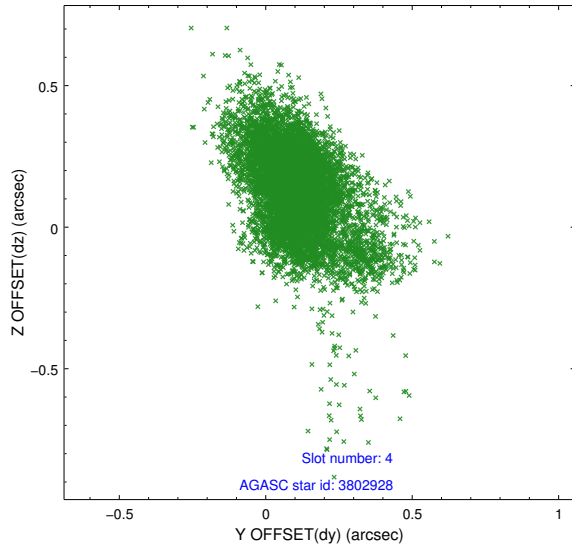
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.12	3462	1.000	-0.376	-0.262	0.012	0.019	0.000000	0.000000	-771.06	-1741
1	FID		ACIS-S-4	7.23	3460	1.000	0.872	0.251	0.009	0.014	0.000000	0.000000	2143.21	166
2	FID		ACIS-S-5	7.21	3462	1.000	-0.528	0.020	0.011	0.023	0.000000	0.000000	-1823.74	160
3	GUIDE	used	3802016	9.46	6876	1.000	-0.051	0.040	0.194	0.389	26.888447	1.995804	-1854.81	1997
4	GUIDE	used	3802928	9.10	6910	1.000	0.102	0.135	0.190	0.349	27.029881	1.508679	-204.29	1218
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
6	GUIDE	used	3803992	9.11	6918	1.000	-0.088	-0.093	0.152	0.267	27.055067	1.891627	-1177.20	2198
7	GUIDE	used	3937856	8.71	6915	1.000	0.008	-0.062	0.134	0.227	27.502239	0.986318	2331.13	1246

2.4 Star Slots

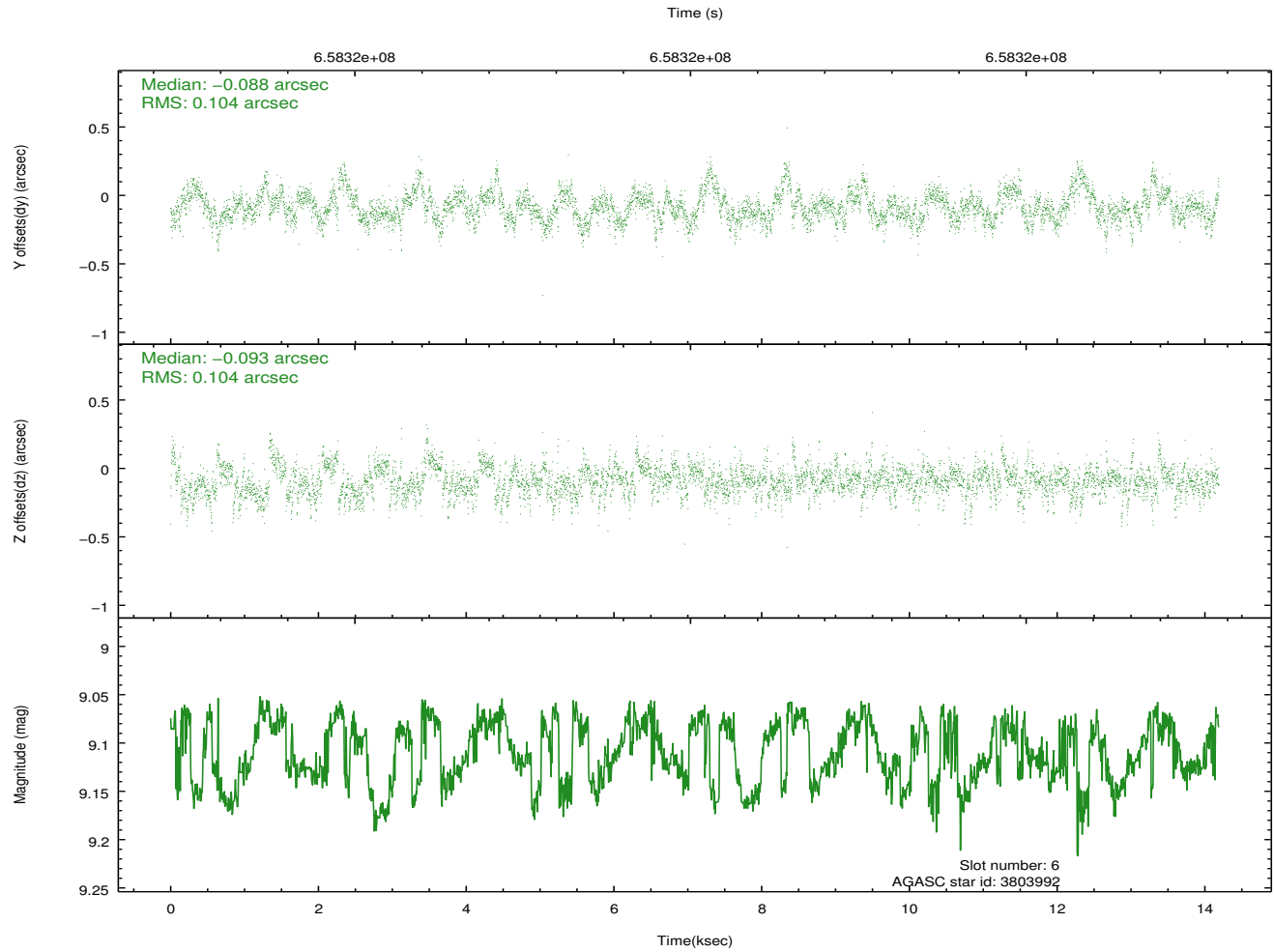
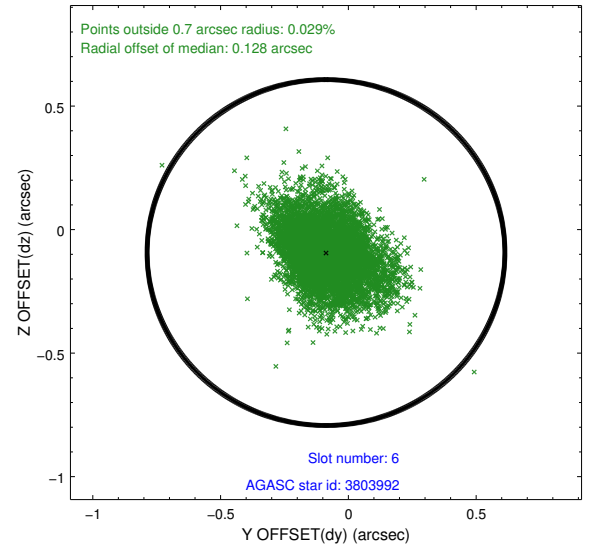
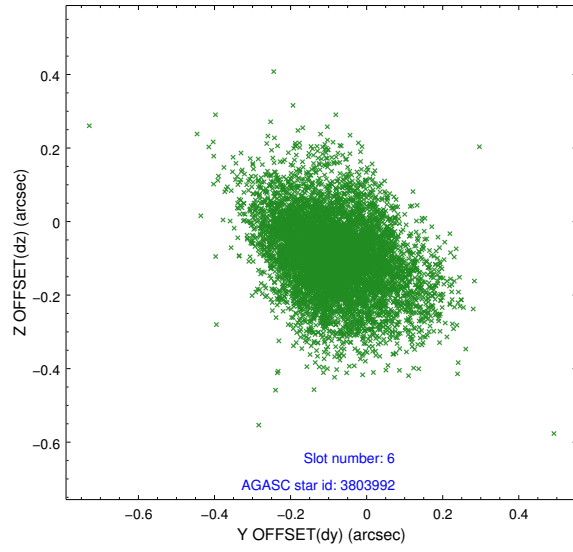
2.4.1 Slot 3



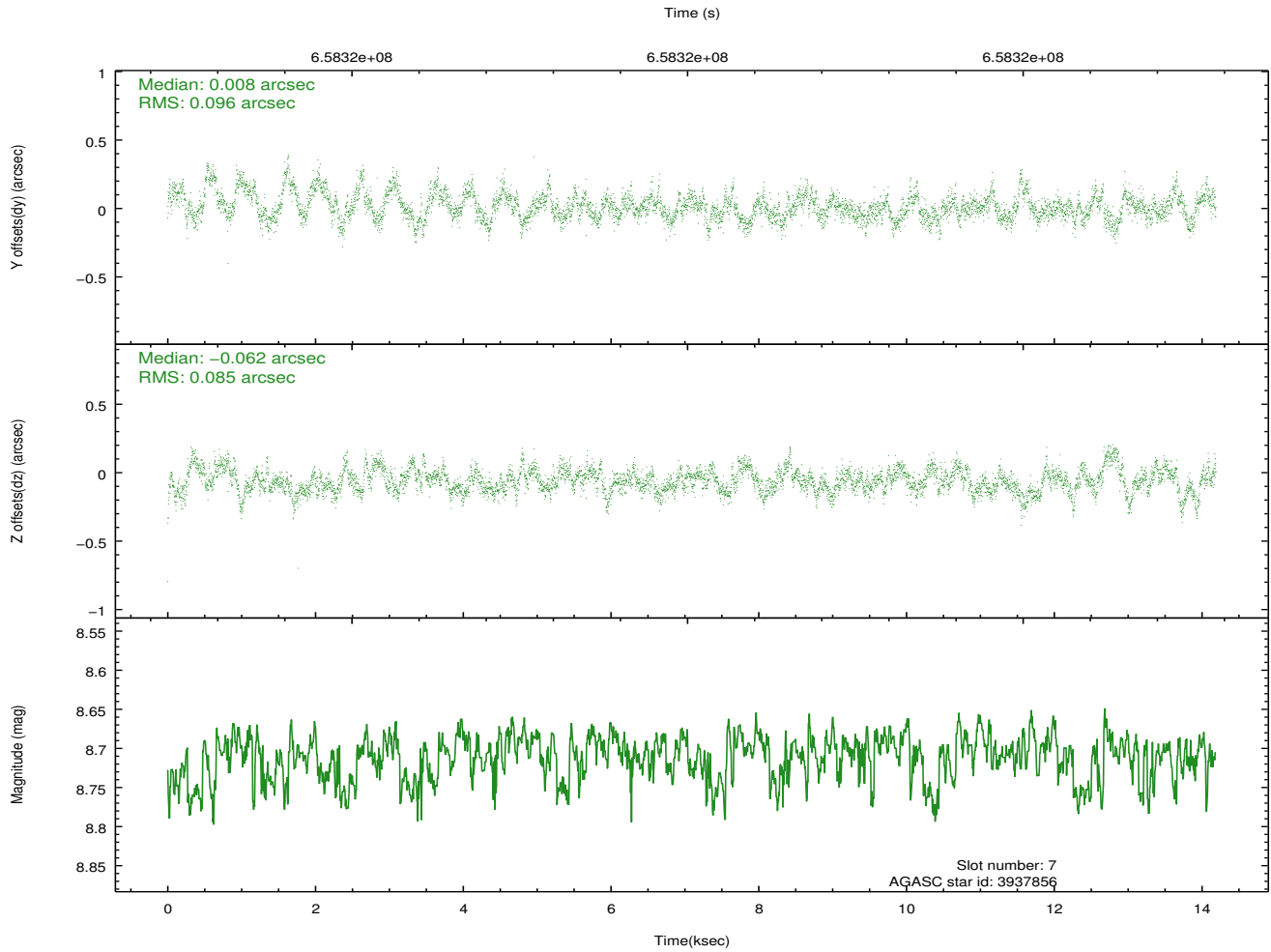
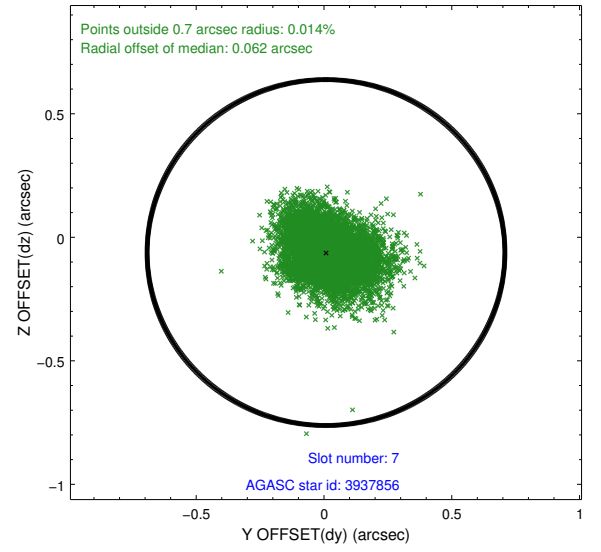
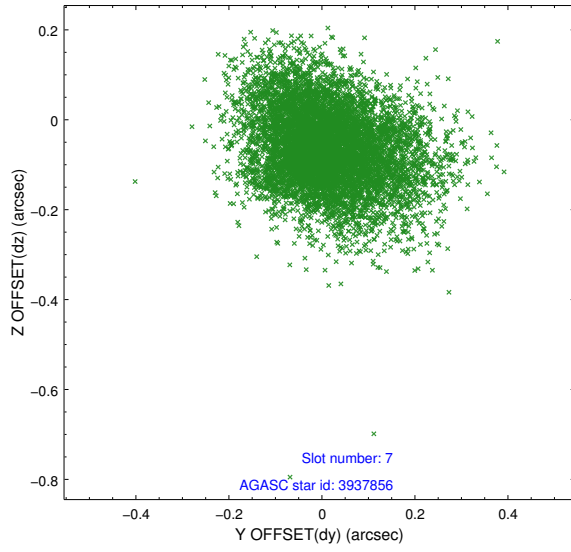
2.4.2 Slot 4



2.4.3 Slot 6

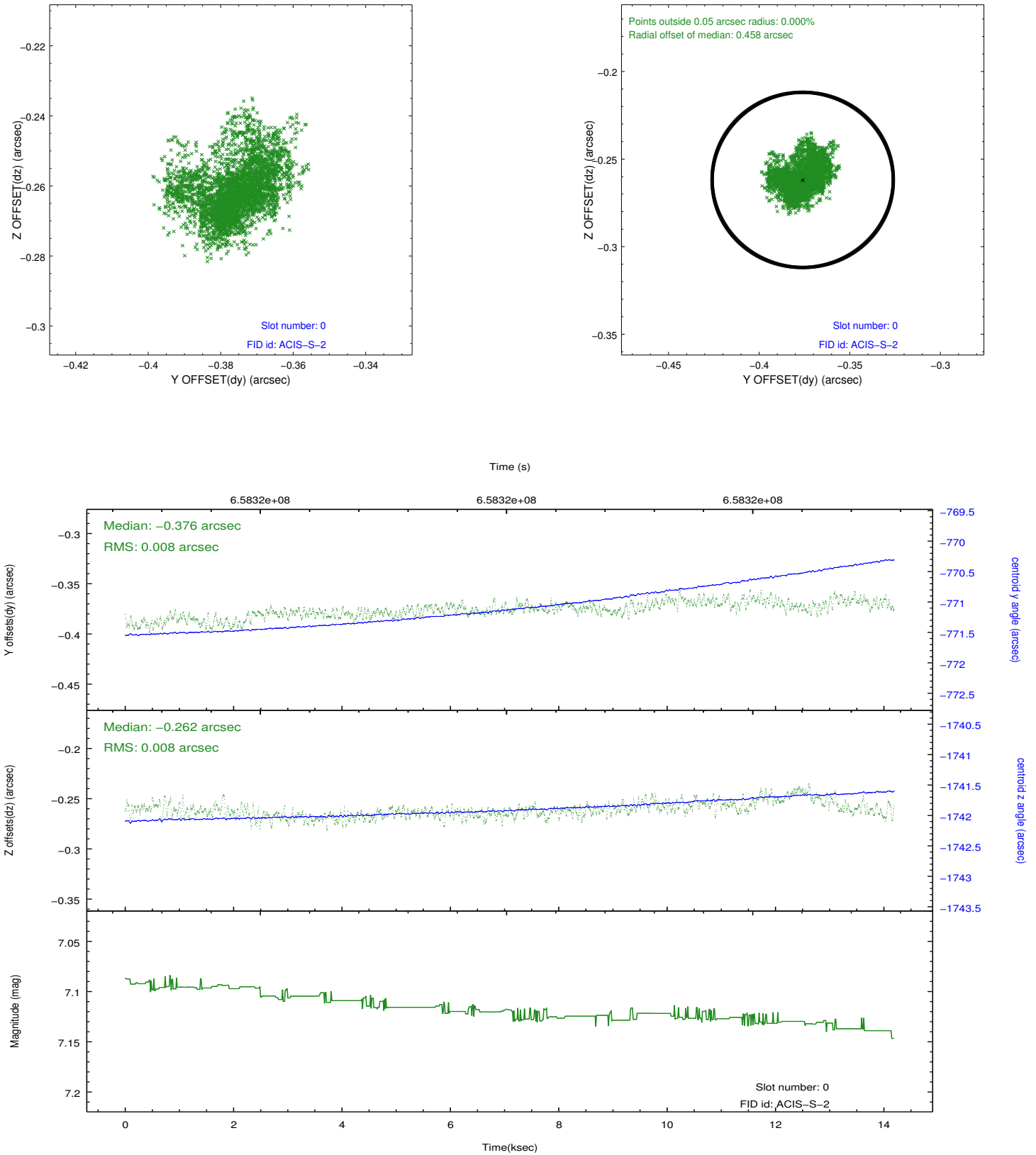


2.4.4 Slot 7

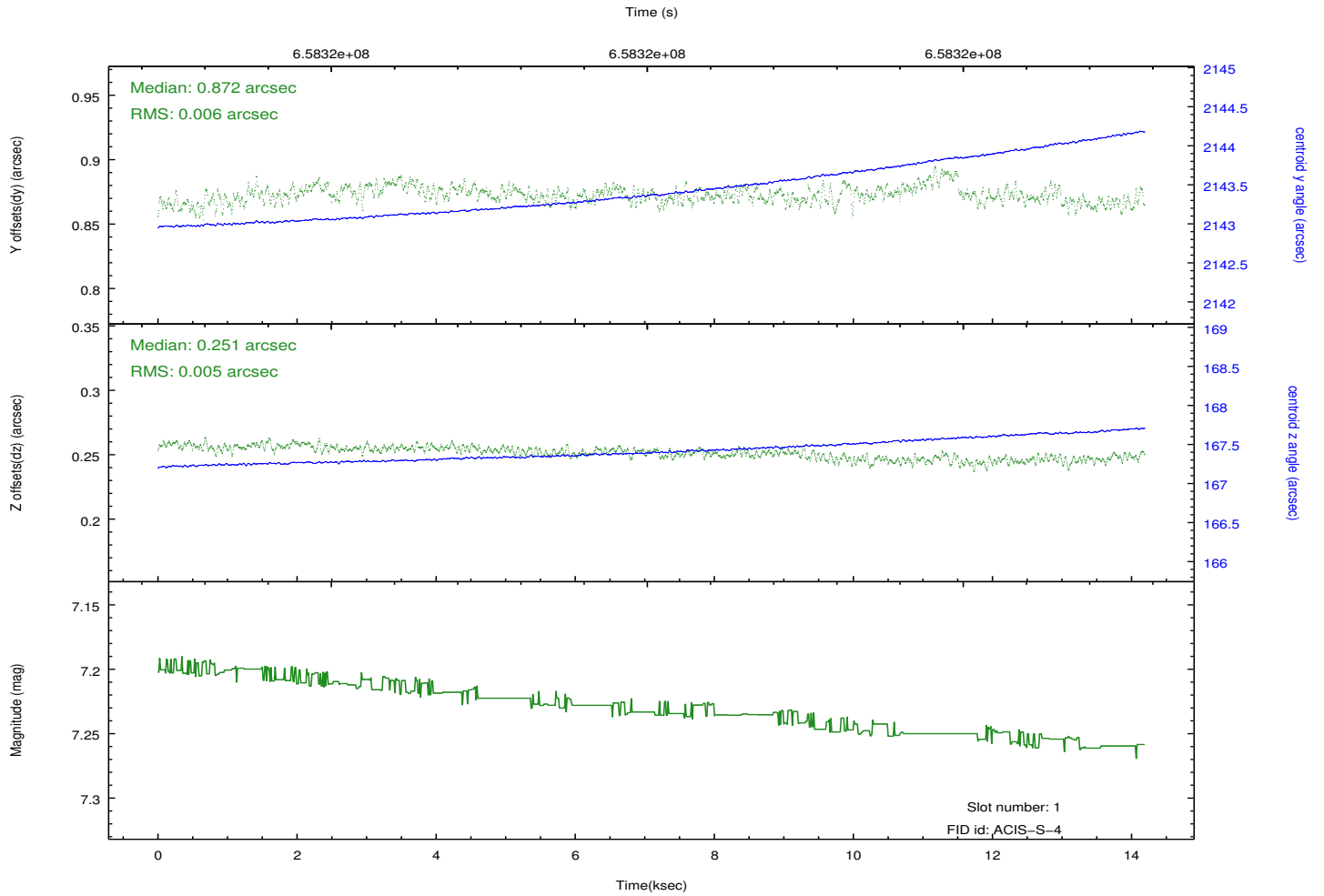
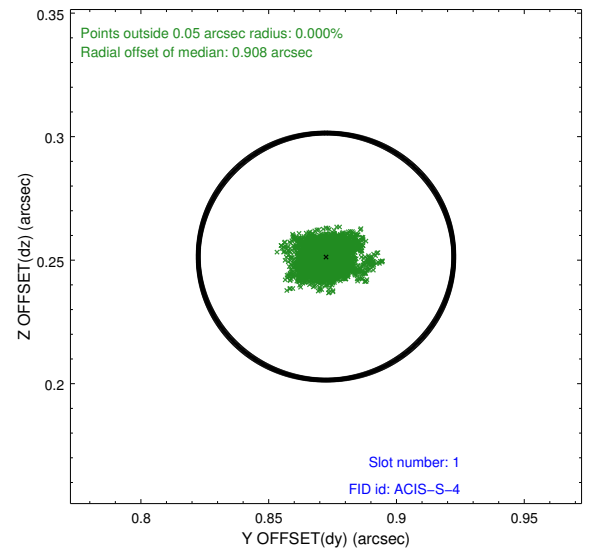
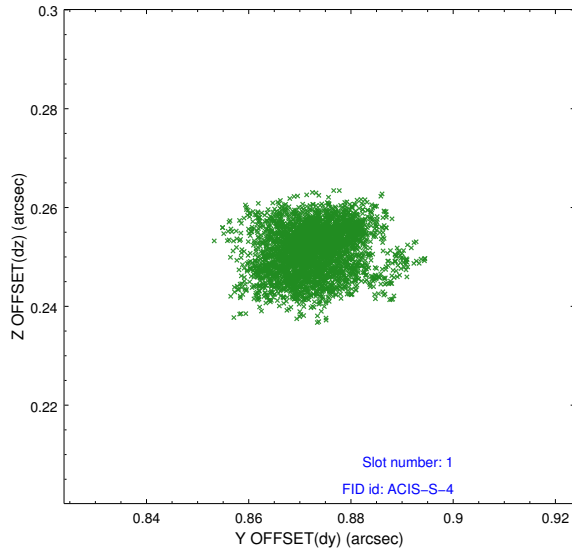


2.5 FID Slots

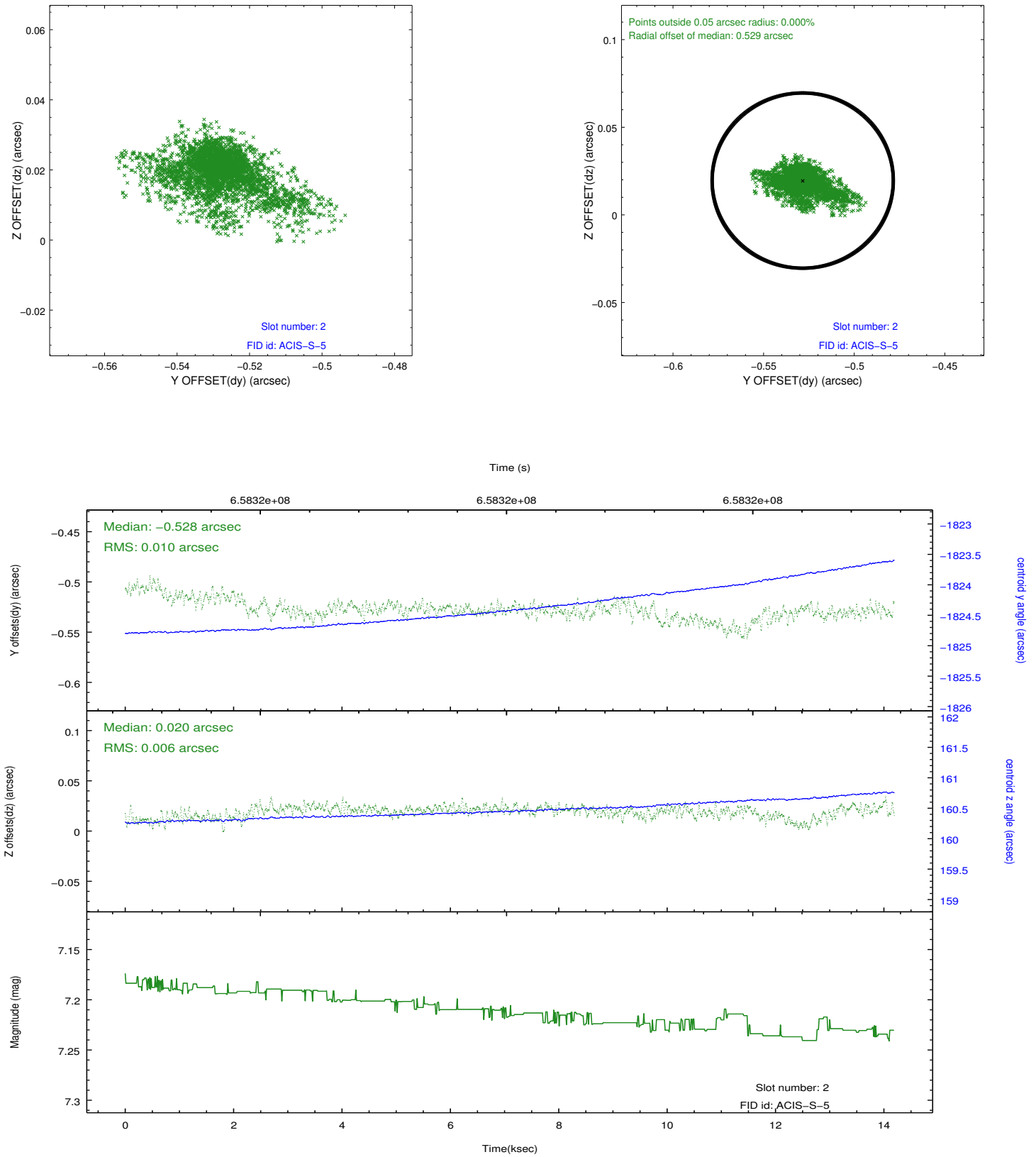
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.11.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.111200108647

A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.