

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21299 - L2 Version 1
Chandra X-Ray Center

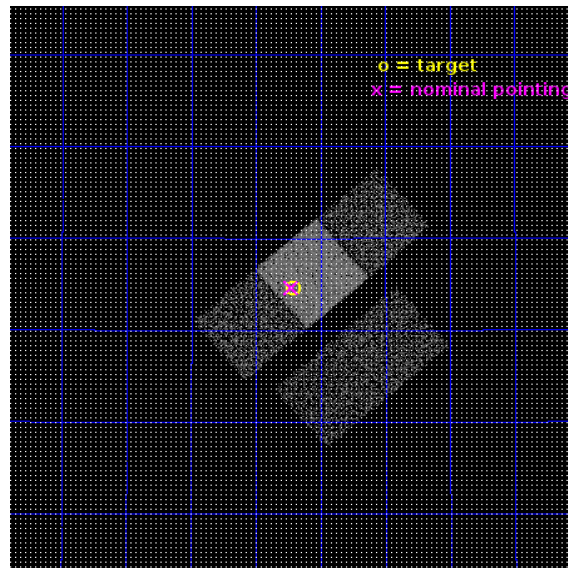
L2 Processing Date : Dec 17 2018

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1 Front

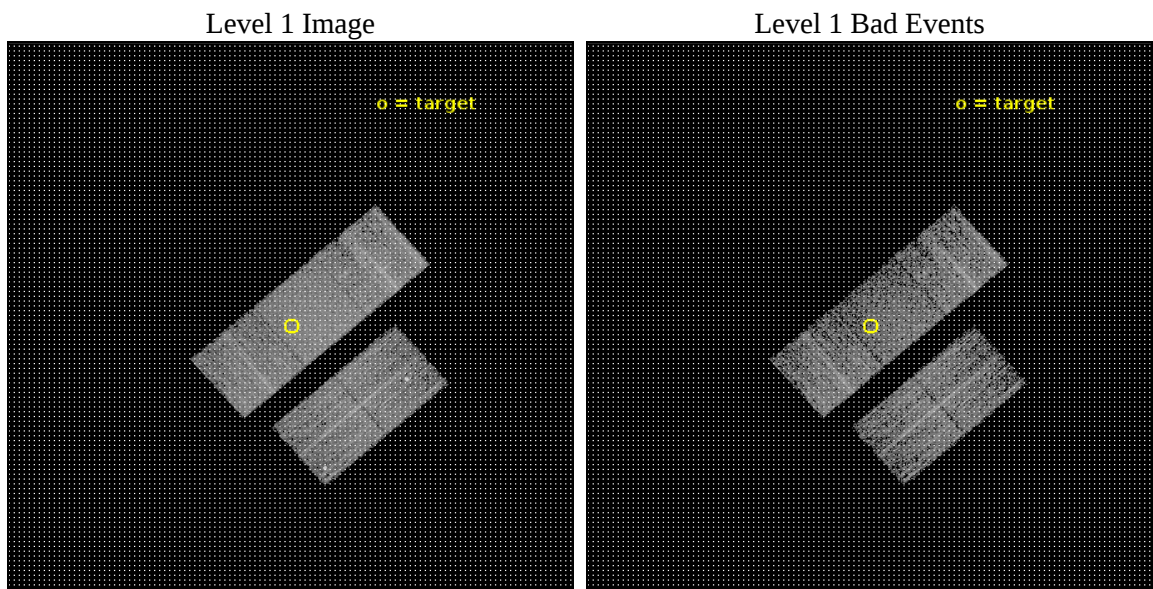
seq_num	503072	Sequence number
obs_id	21299	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J2015+2524	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	303.802917	Observer's specified target RA [deg]
dec_targ	25.408694	Observer's specified target Dec [deg]
ra_nom	303.80644735292	Nominal RA [deg]
dec_nom	25.410383685489	Nominal Dec [deg]
roll_nom	319.1150577683	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3701.4000285864	Sum of GTIs [s]
livetime	3653.0385122818	Livetime [s]
ontime2	3701.4000285864	Sum of GTIs [s]
ontime3	3701.4000285864	Sum of GTIs [s]
ontime6	3701.4000285864	Sum of GTIs [s]
ontime7	3701.4000285864	Sum of GTIs [s]
ontime8	3701.4000285864	Sum of GTIs [s]
l2events	26763	Number of level 2 events



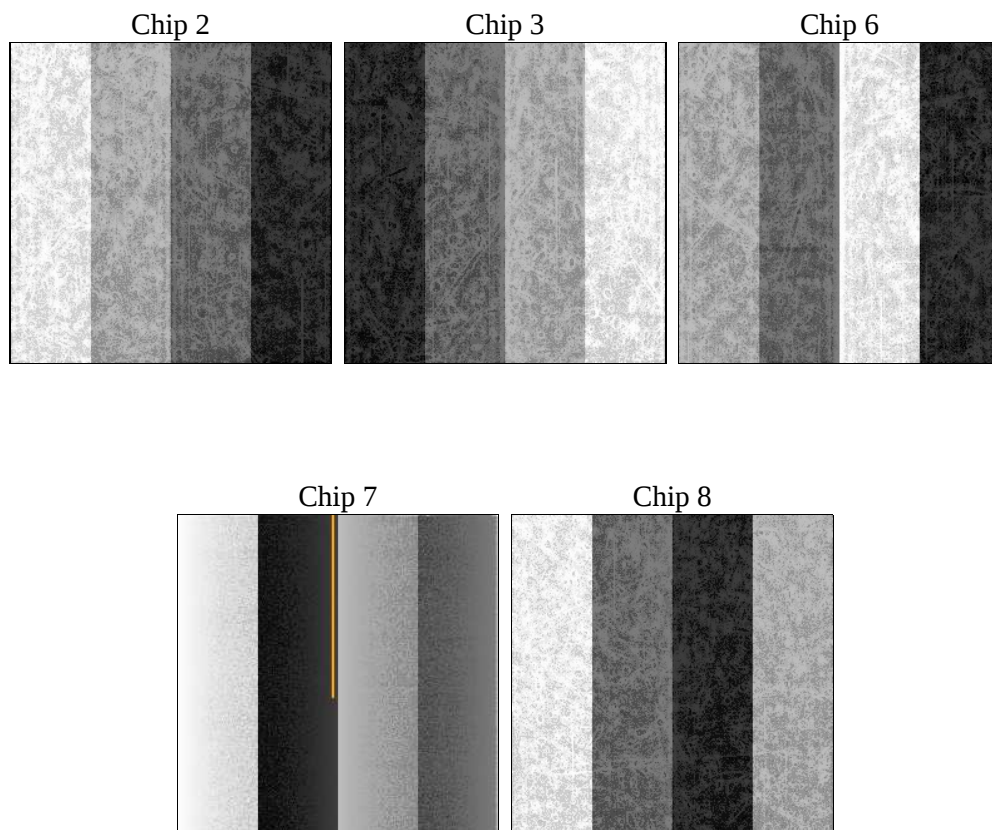
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3651.916000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	3701.4000285864	Sum of GTIs [s]
caldsver	4.8.2	 	ontime2	3701.4000285864	Sum of GTIs [s]
date	2018-12-17T17:02:11	Date and time of file creation	ontime3	3701.4000285864	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3701.4000285864	Sum of GTIs [s]
			ontime7	3701.4000285864	Sum of GTIs [s]
			ontime8	3701.4000285864	Sum of GTIs [s]
			l1events	162526	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	30134	29091	29276	36821	37204
rejected events	26447	25131	26133	20399	28159
rejected %	87%	86%	89%	55%	75%

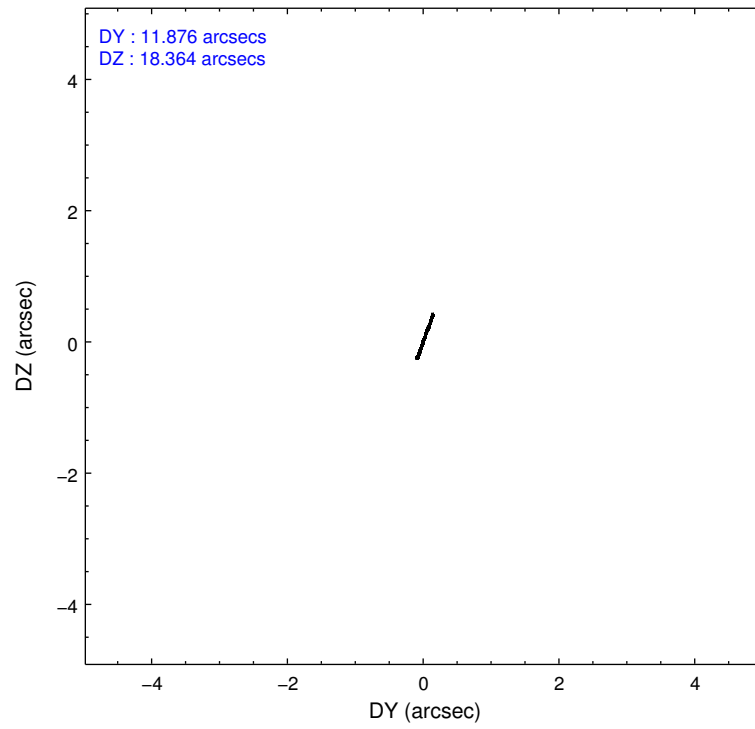
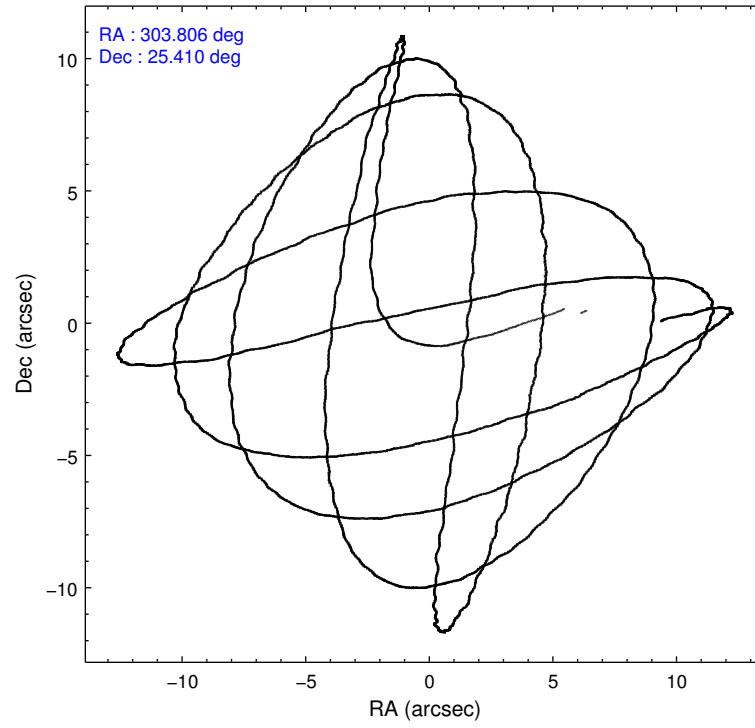
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1856	2077	898	1395	2518
	6%	7%	3%	3%	6%
grade 1 events	16	22	10	64	37
	0%	0%	0%	0%	0%
grade 2 events	680	653	886	3488	2307
	2%	2%	3%	9%	6%
grade 3 events	284	292	266	1323	908
	0%	1%	0%	3%	2%
grade 4 events	293	306	247	1285	828
	0%	1%	0%	3%	2%
grade 5 events	1030	1271	1205	3551	1904
	3%	4%	4%	9%	5%
grade 6 events	577	636	850	8941	2487
	1%	2%	2%	24%	6%
grade 7 events	25398	23834	24914	16774	26215
	84%	81%	85%	45%	70%

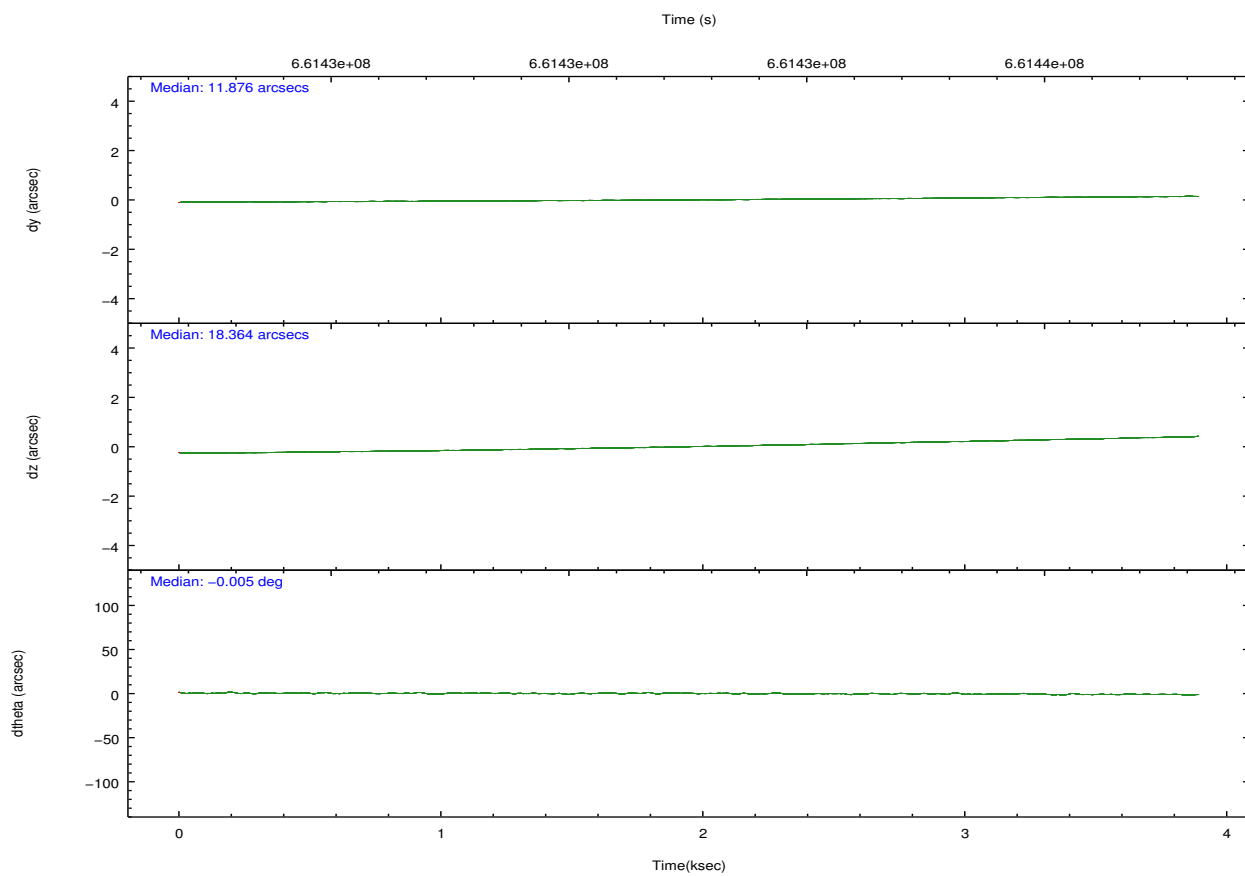
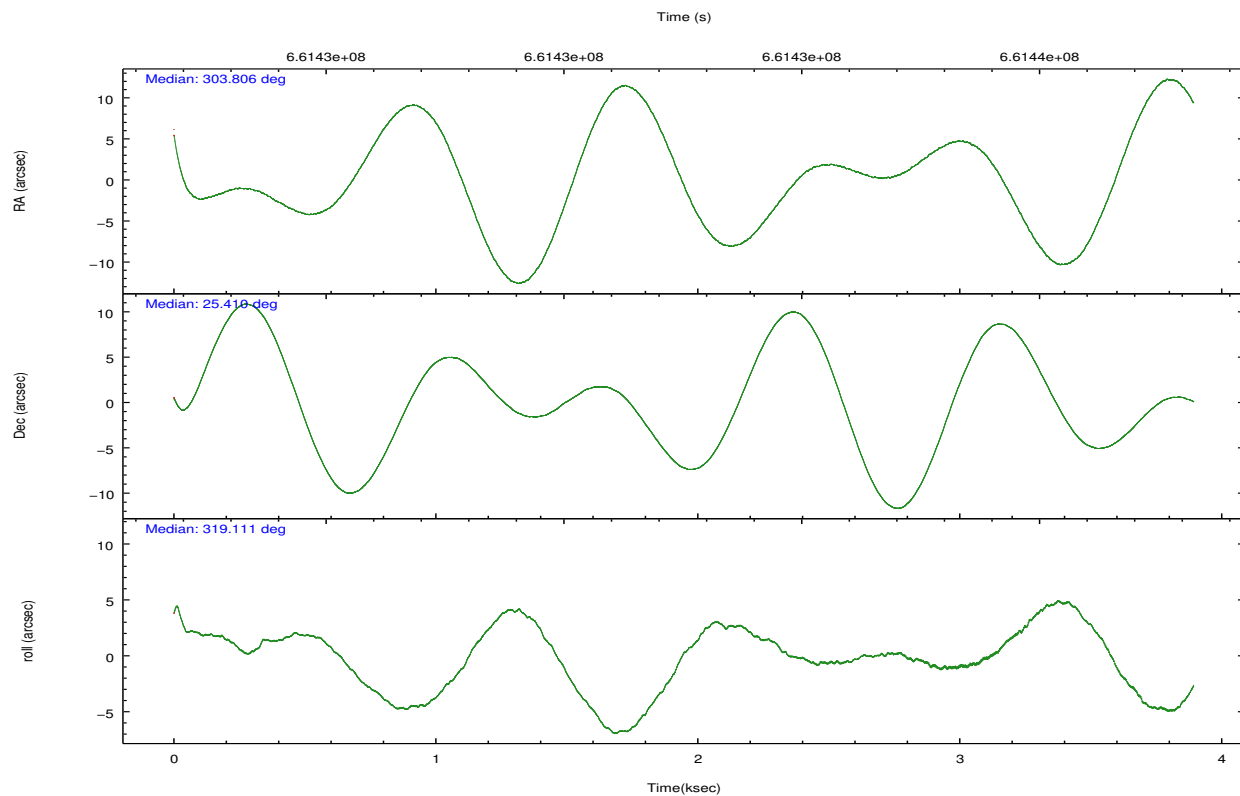
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	303.776475	303.8064473529229
[deg] Pointing Dec	25.415106	25.41038368548895
[deg] Pointing Roll	318.971293	319.1150577682994
[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)	661431803.184000	661430824.5746599
Observation start date	2018-12-17T11:02:14	2018-12-17T10:47:04
[s] Observation end time (MET)	661435455.184000	661436514.35
Observation end date	2018-12-17T12:03:06	2018-12-17T12:21:54
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	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
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



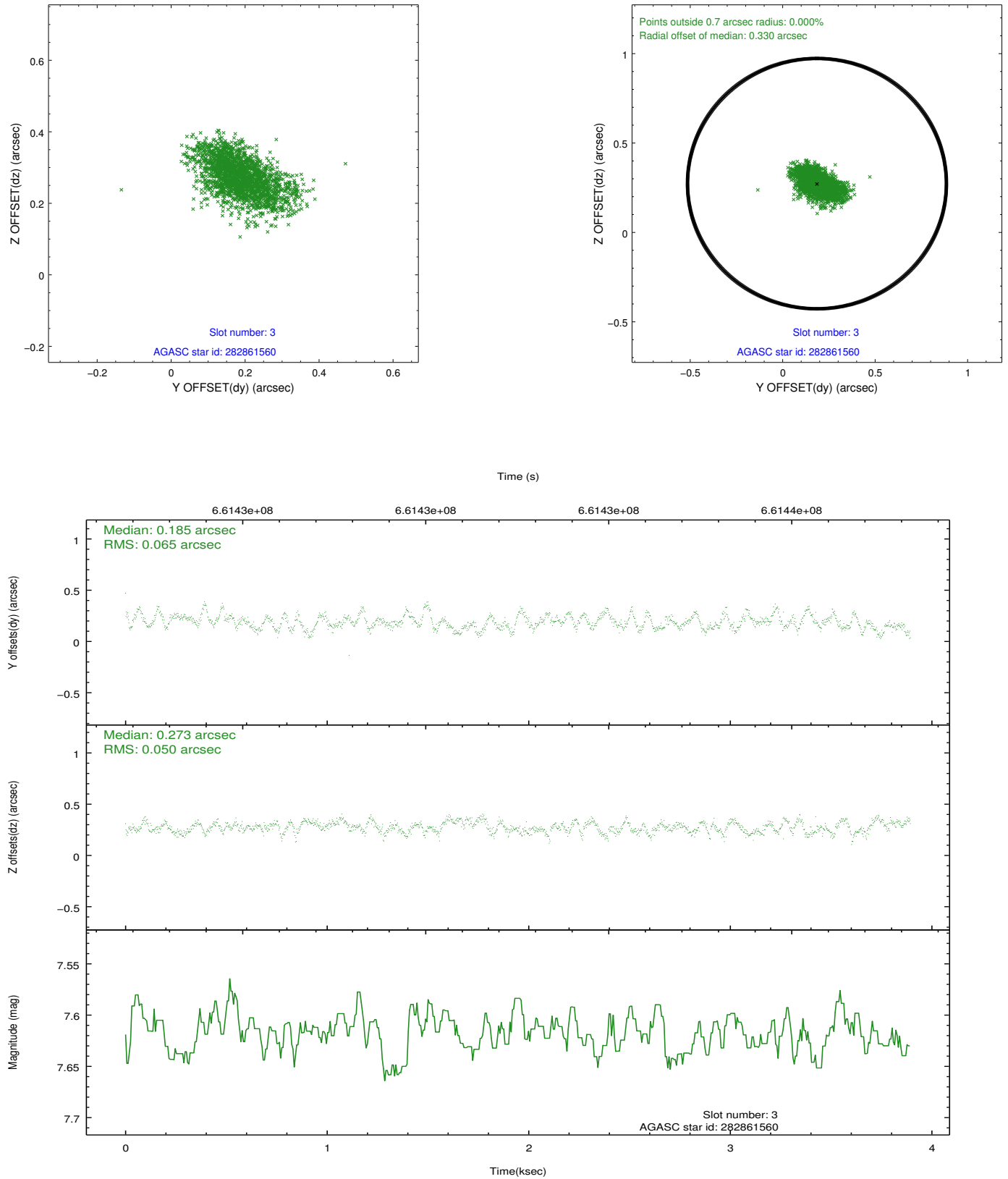


Slot Statistics

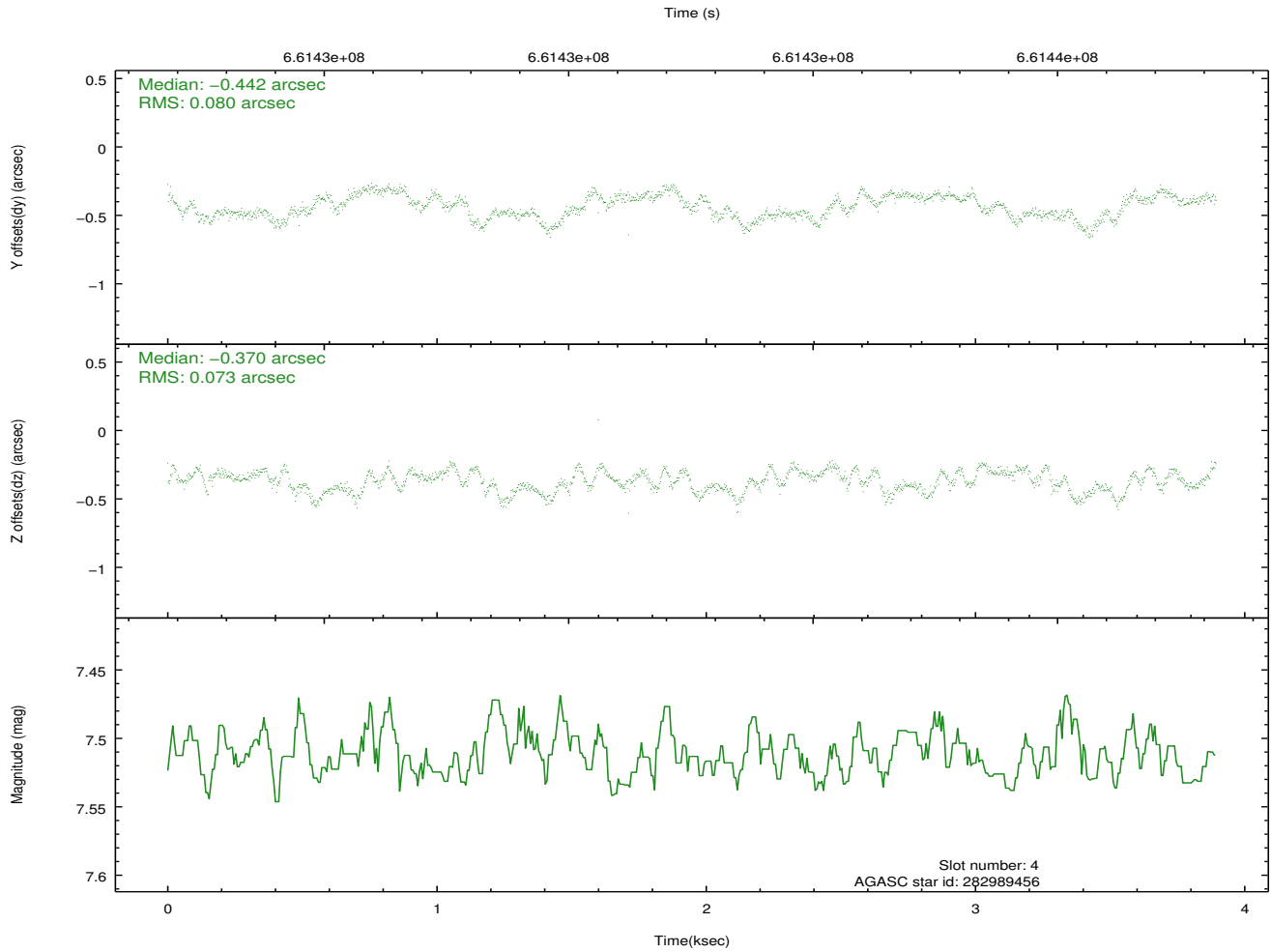
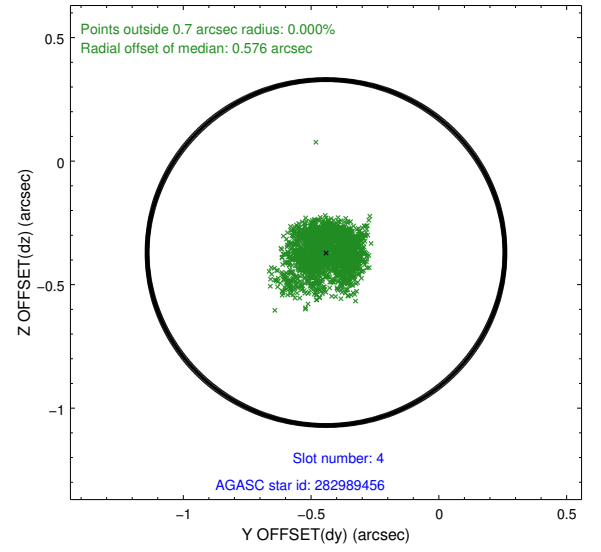
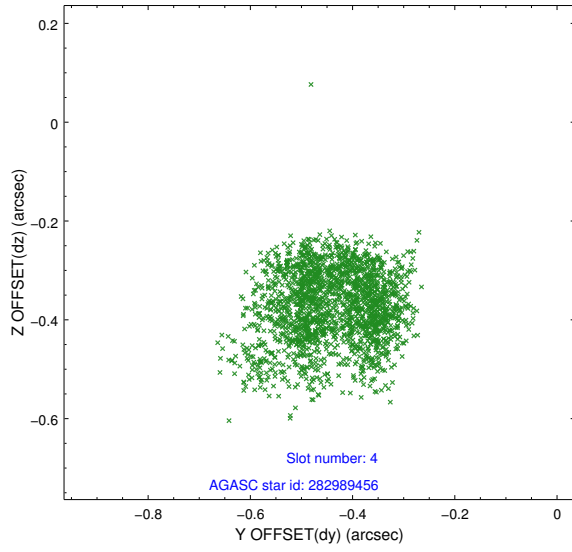
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.15	950	1.000	-0.269	-0.236	0.009	0.016	0.000000	0.000000	-765.00	-1740
1	FID		ACIS-S-4	7.28	949	1.000	0.749	0.192	0.006	0.010	0.000000	0.000000	2148.51	167
2	FID		ACIS-S-5	7.27	950	1.000	-0.511	0.052	0.008	0.015	0.000000	0.000000	-1816.07	162
3	GUIDE	used	282861560	7.62	1899	1.000	0.185	0.273	0.086	0.147	303.138650	25.653433	-2128.32	-705
4	GUIDE	used	282989456	7.51	1900	1.000	-0.442	-0.370	0.117	0.177	304.559780	25.509531	1690.52	1931
5	GUIDE	used	282991008	7.99	1900	1.000	-0.195	-0.208	0.114	0.171	304.114729	25.873716	-257.29	1966
6	GUIDE	used	282994392	7.99	1899	1.000	0.109	-0.060	0.089	0.156	303.769972	25.120273	681.28	-813
7	GUIDE	used	282859592	8.23	1898	1.000	0.335	0.375	0.086	0.144	302.849276	25.453870	-2371.02	-1866

2.4 Star Slots

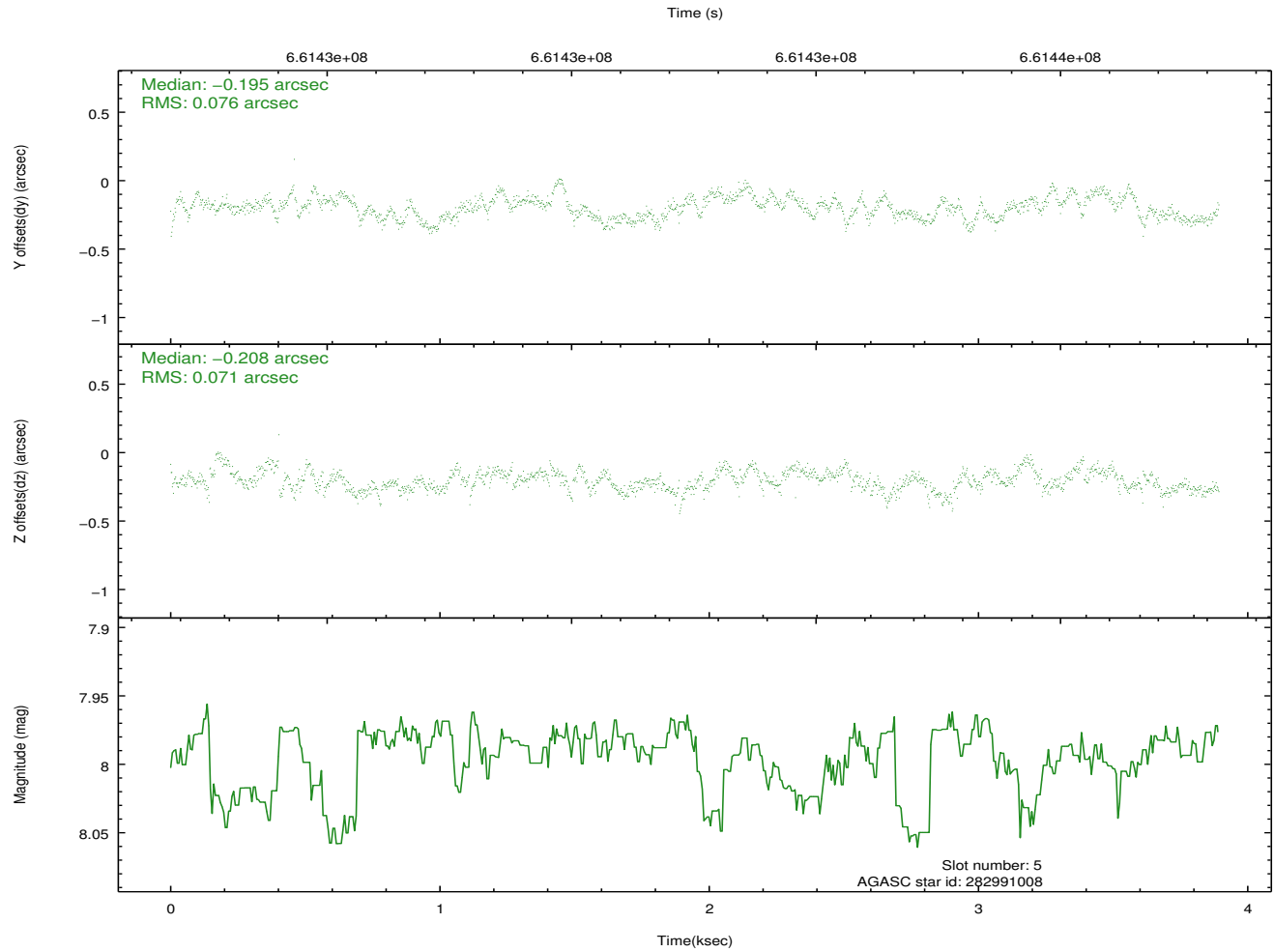
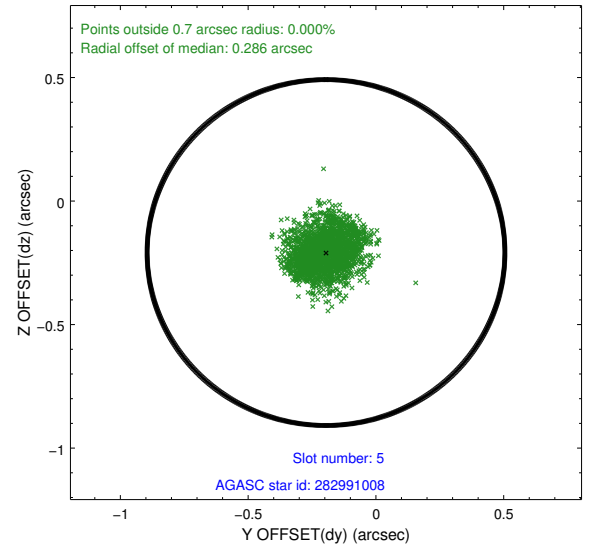
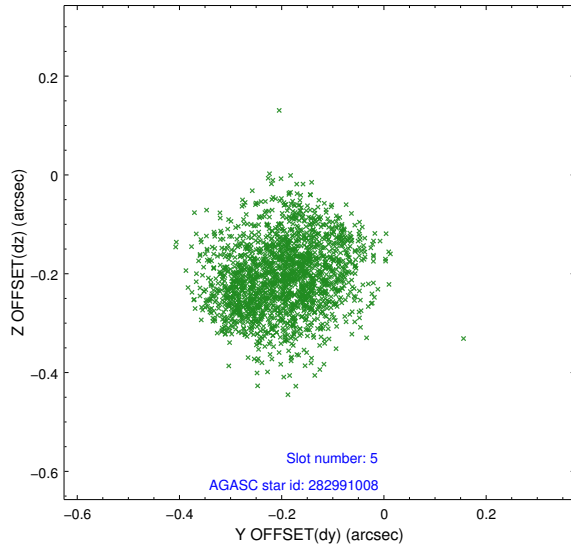
2.4.1 Slot 3



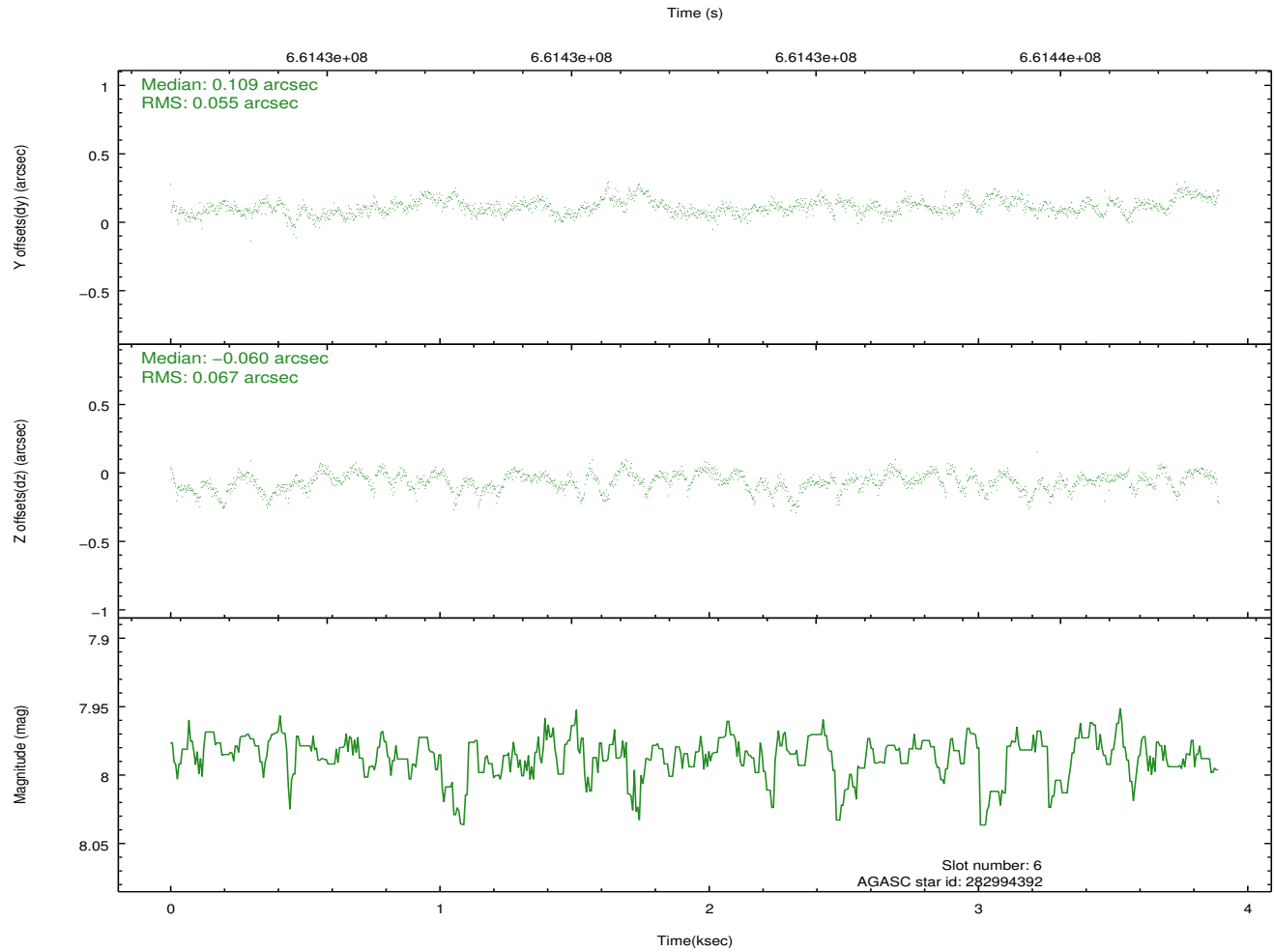
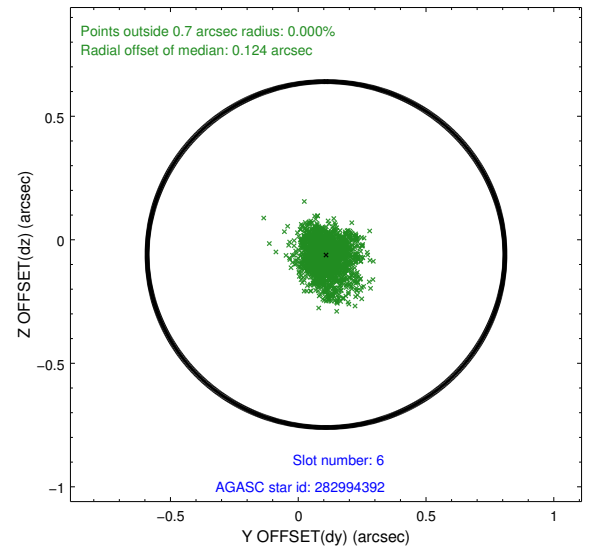
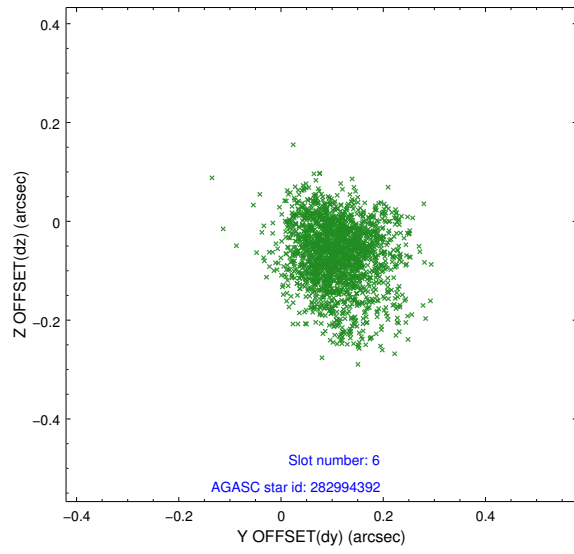
2.4.2 Slot 4



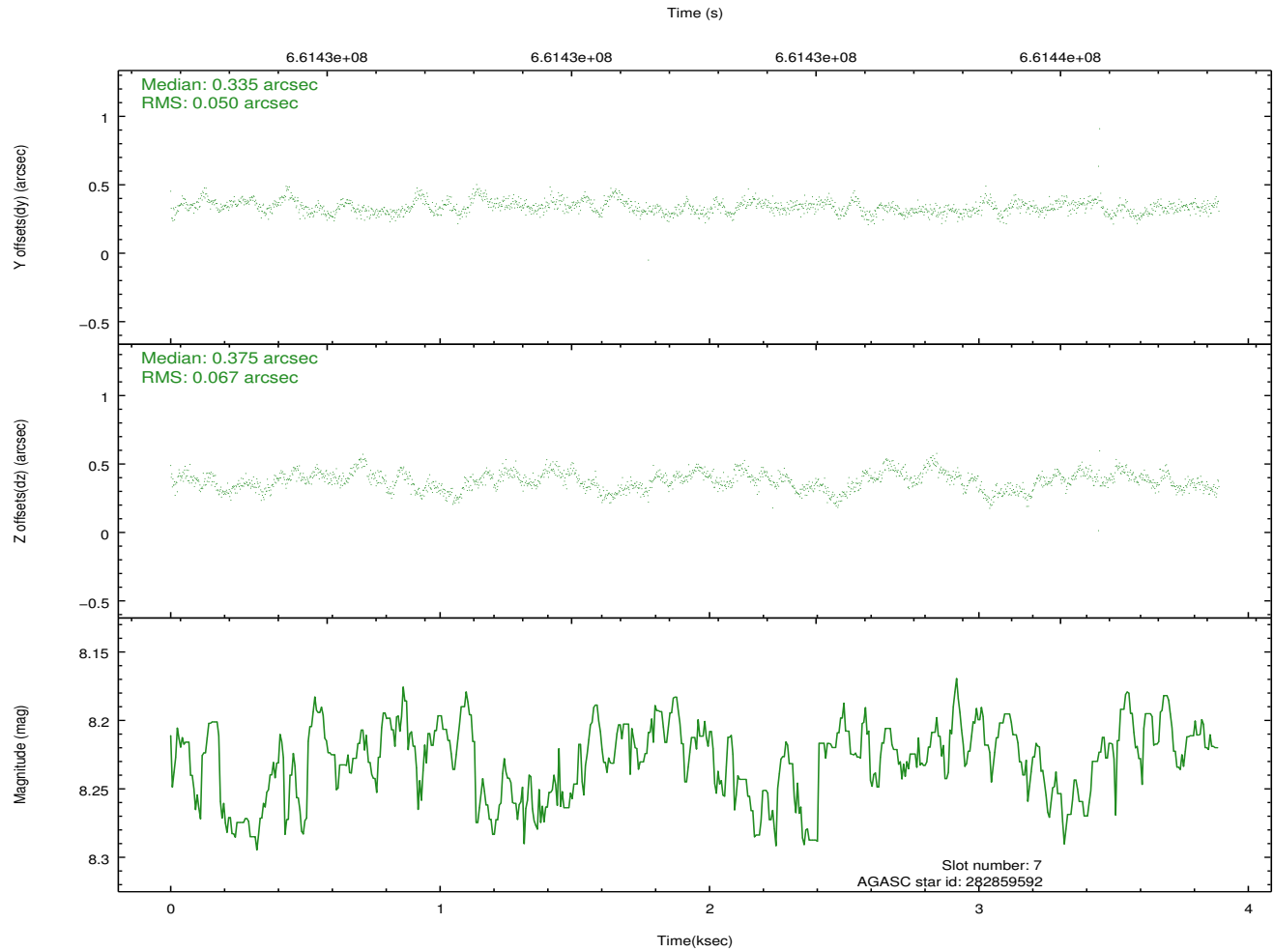
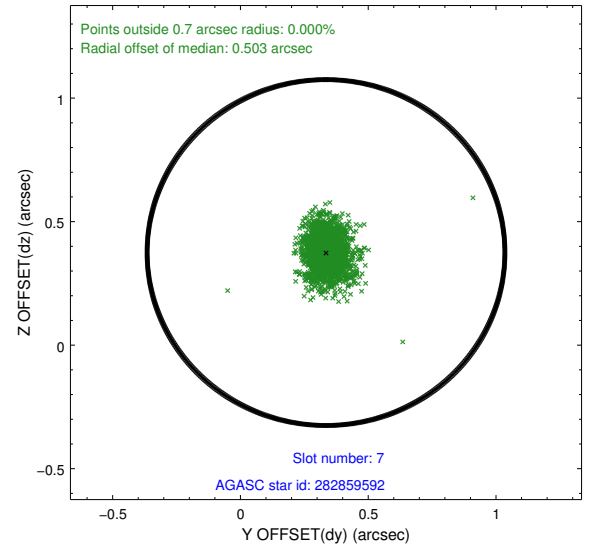
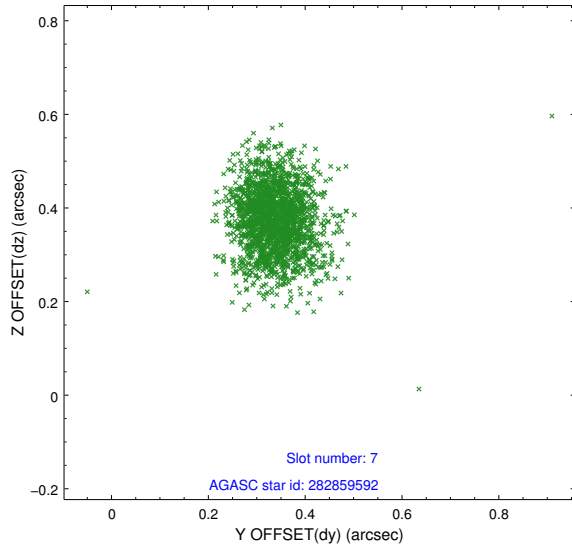
2.4.3 Slot 5



2.4.4 Slot 6

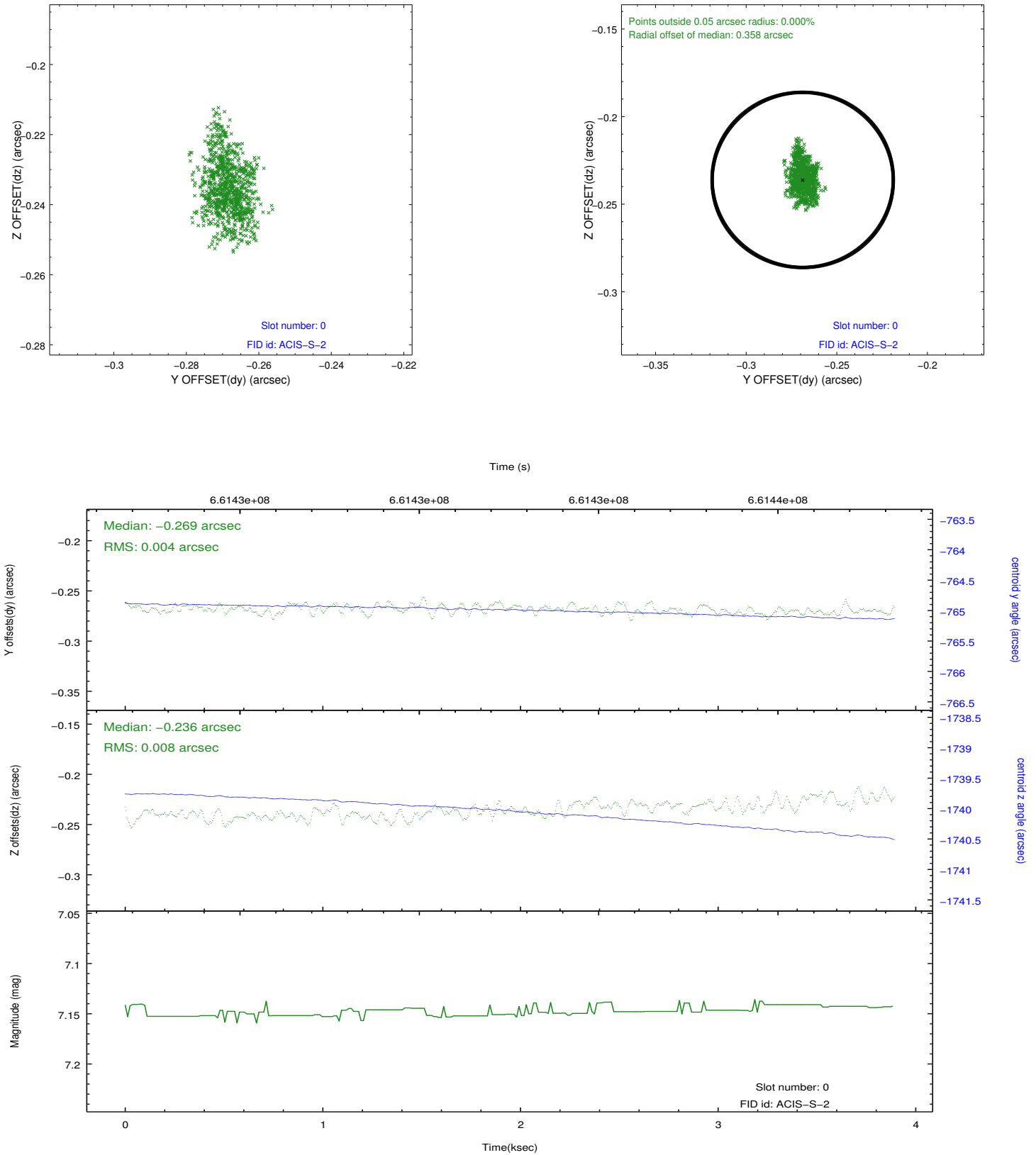


2.4.5 Slot 7

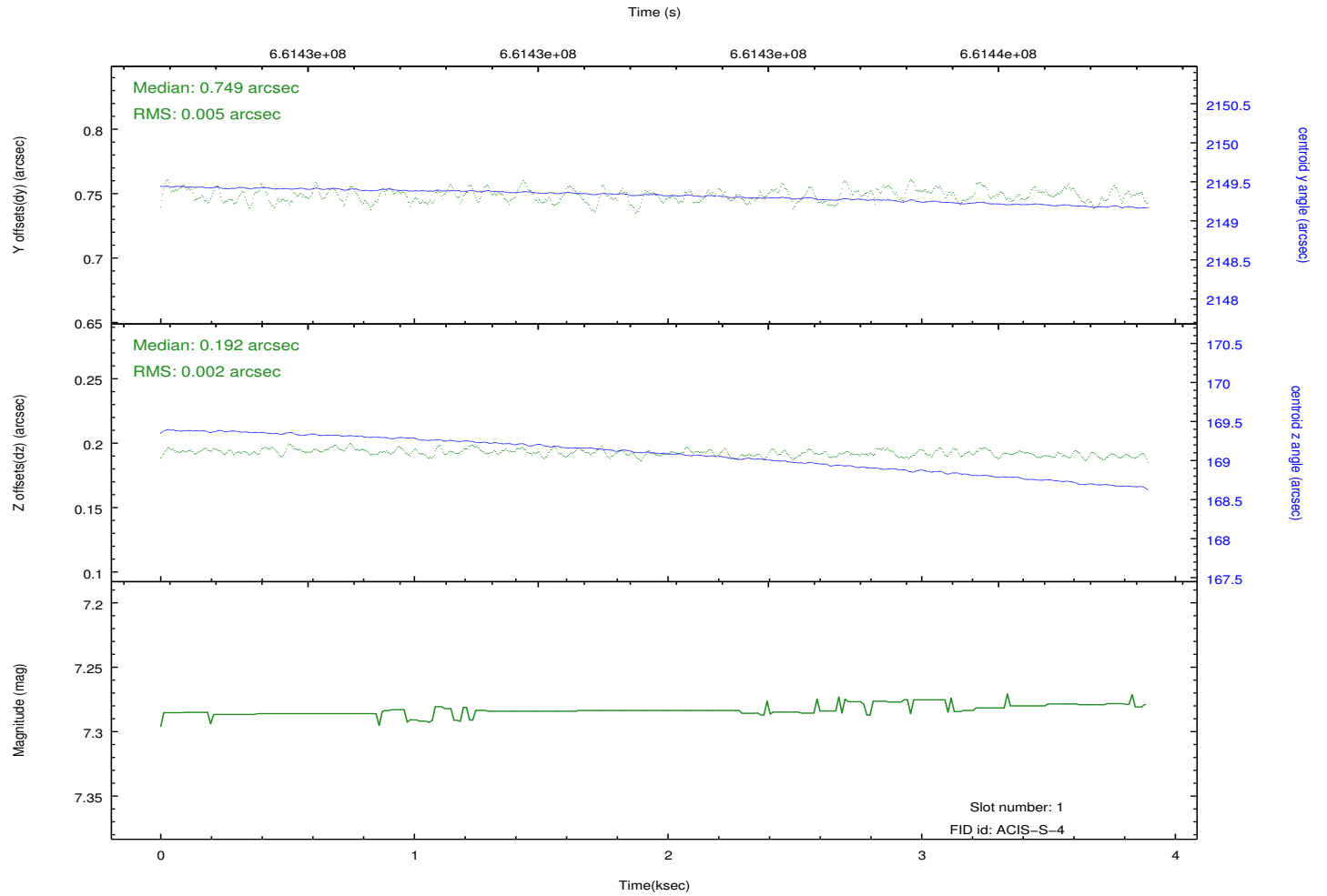
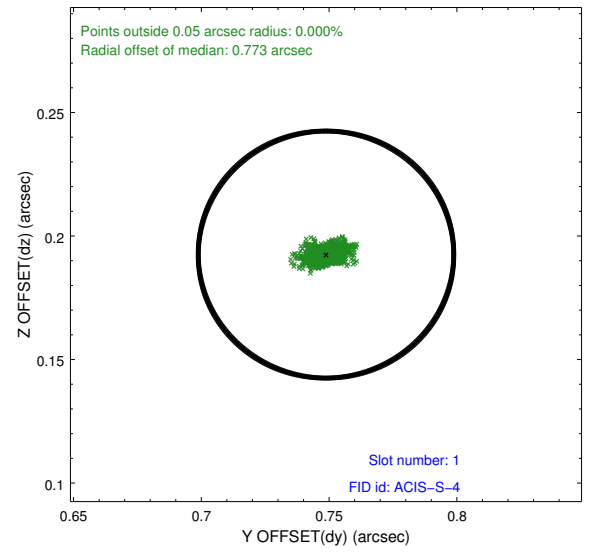
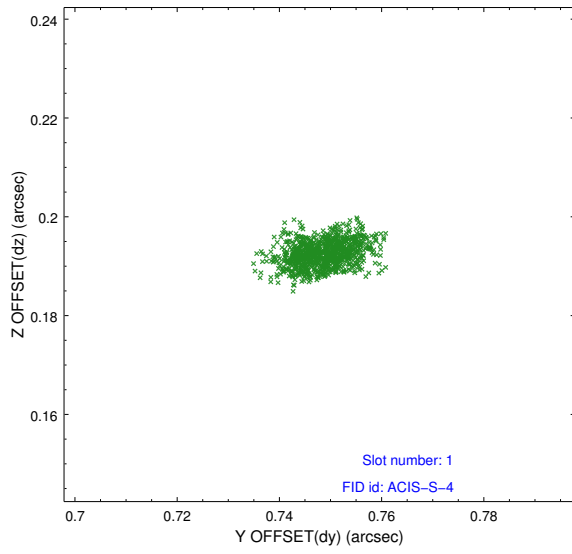


2.5 FID Slots

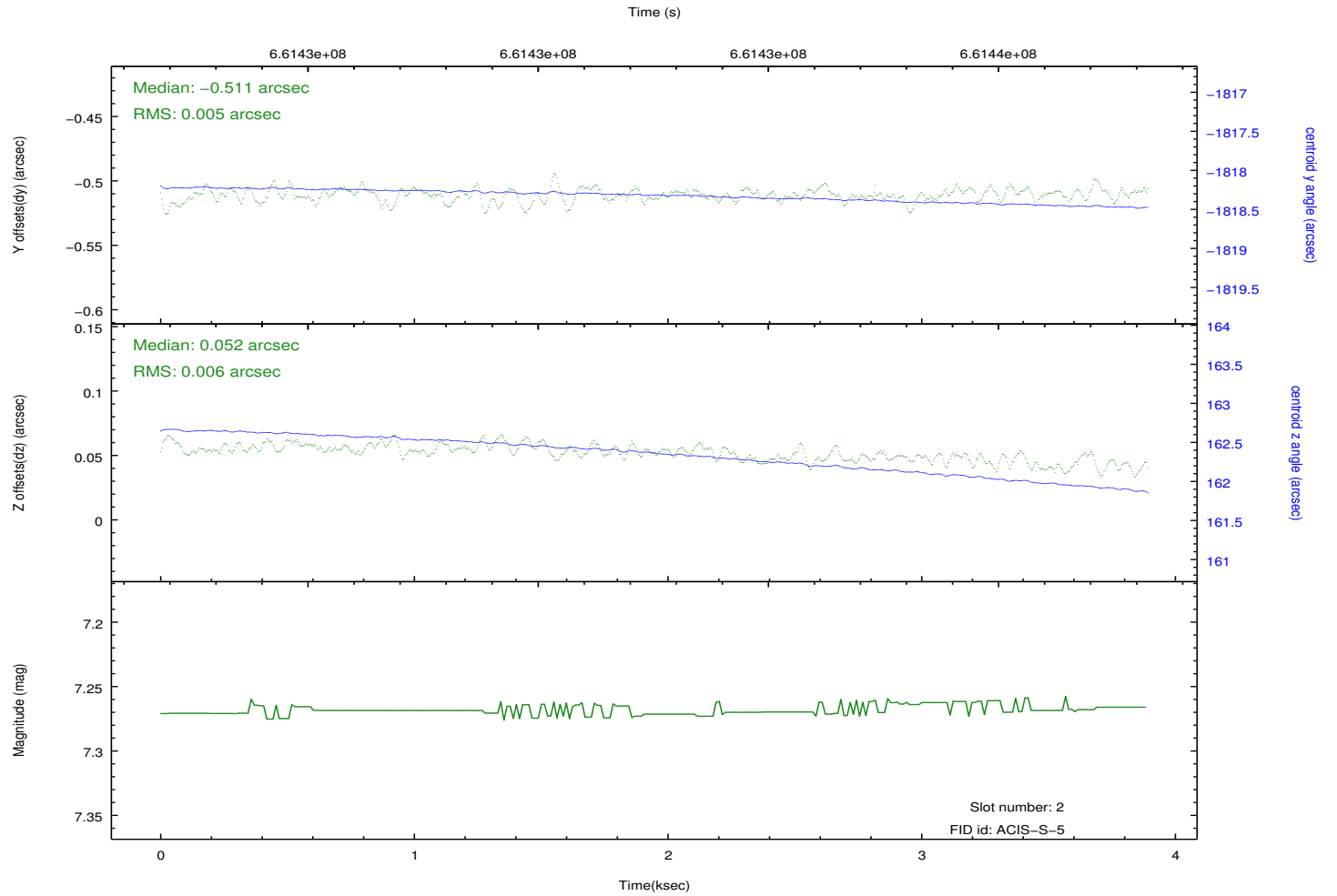
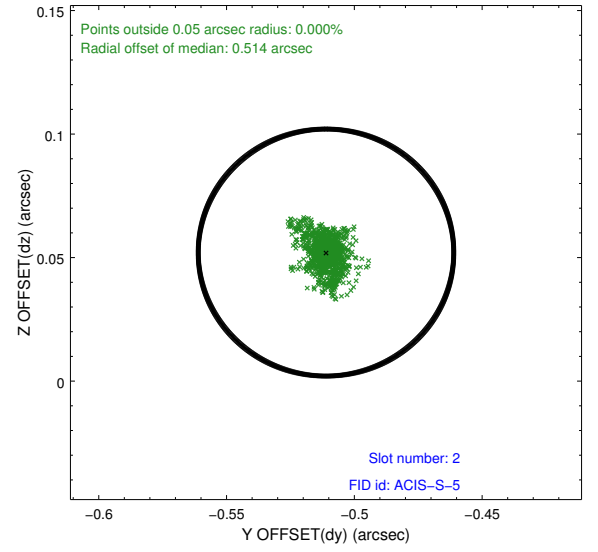
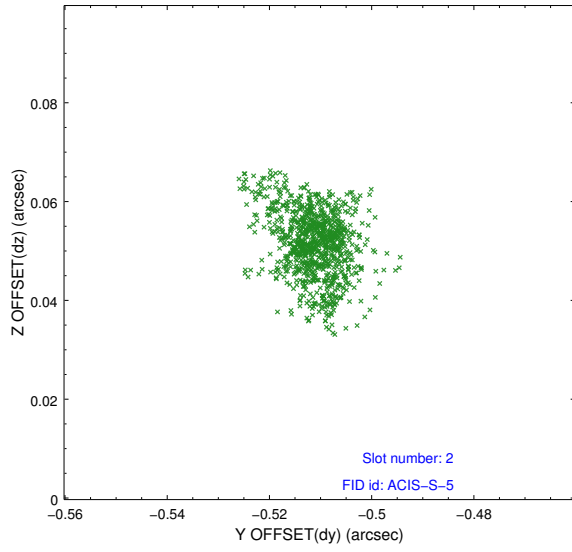
2.5.1 Slot 0



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)	2018.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.7014000285864

A.2 Comments