

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21284 - L2 Version 1
Chandra X-Ray Center

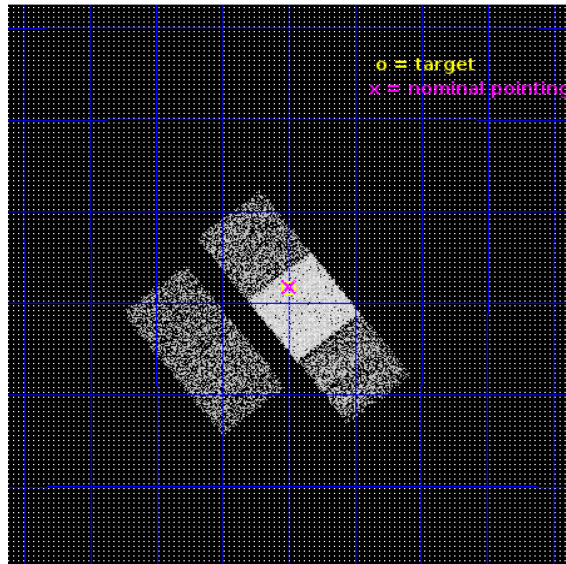
L2 Processing Date : Nov 20 2018

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1 Front

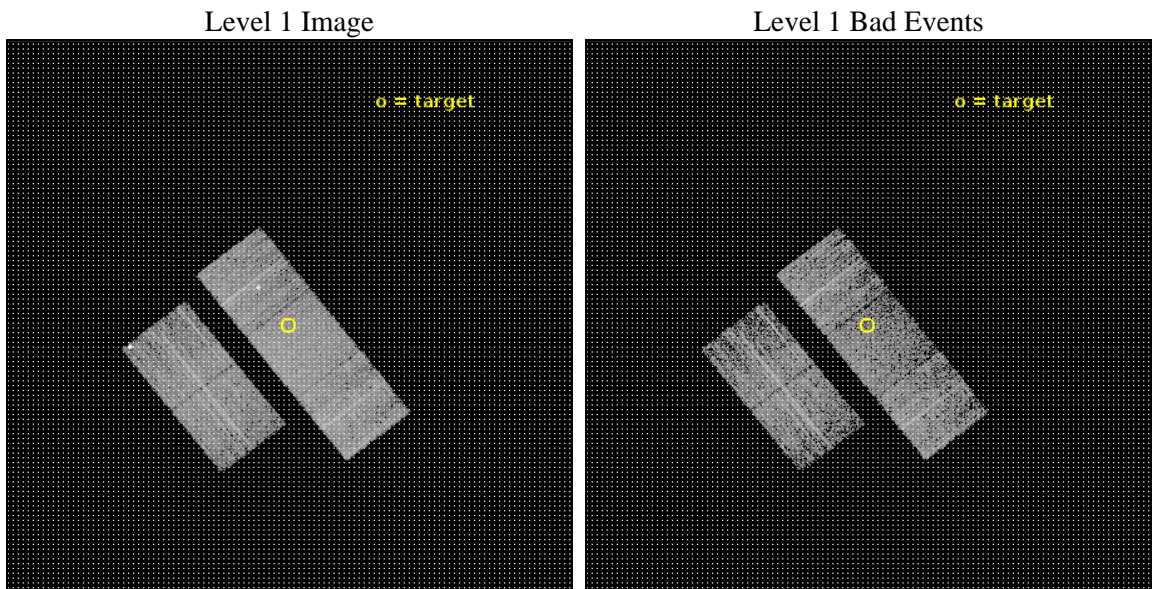
seq_num	503057	Sequence number
obs_id	21284	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J0656-2228	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	104.125833	Observer's specified target RA [deg]
dec_targ	-22.47375	Observer's specified target Dec [deg]
ra_nom	104.1238183354	Nominal RA [deg]
dec_nom	-22.470922954526	Nominal Dec [deg]
roll_nom	52.028965599464	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3551.3333902359	Sum of GTIs [s]
livetime	3504.9326050389	Livetime [s]
ontime2	3551.1692302227	Sum of GTIs [s]
ontime3	3551.2513102293	Sum of GTIs [s]
ontime6	3551.2923502922	Sum of GTIs [s]
ontime7	3551.3333902359	Sum of GTIs [s]
ontime8	3551.2102702856	Sum of GTIs [s]
l2events	24667	Number of level 2 events



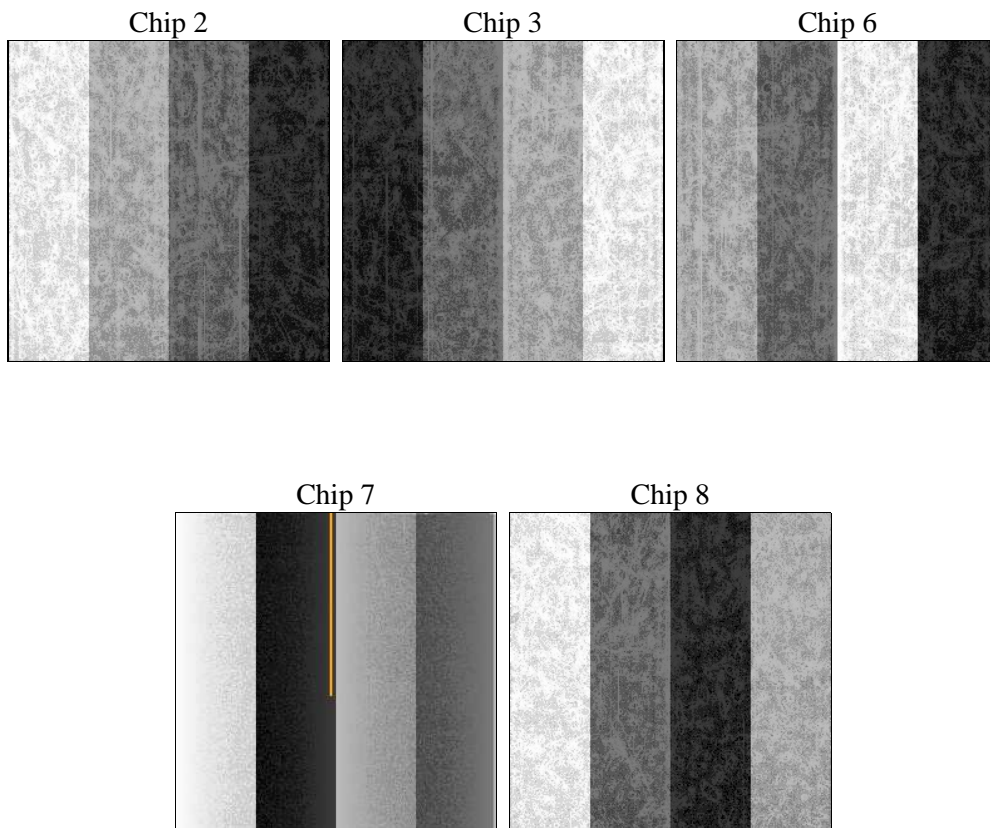
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	3551.3333902359	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime2	3551.1692302227	Sum of GTIs [s]
date	2018-11-21T02:19:07	Date and time of file creation	ontime3	3551.2513102293	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3551.2923502922	Sum of GTIs [s]
			ontime7	3551.3333902359	Sum of GTIs [s]
			ontime8	3551.2102702856	Sum of GTIs [s]
			l1events	158108	Number of level 1 events

2.1.4 Events

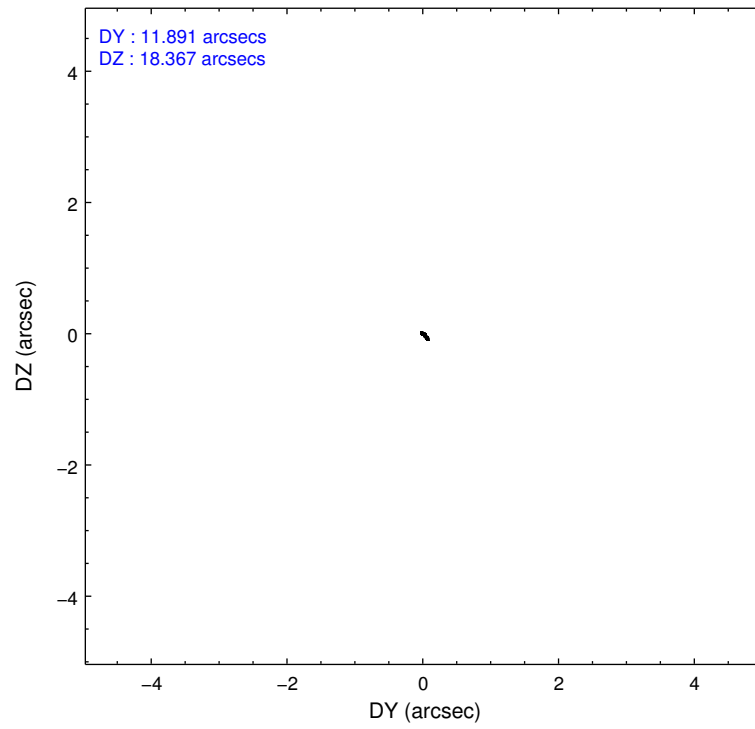
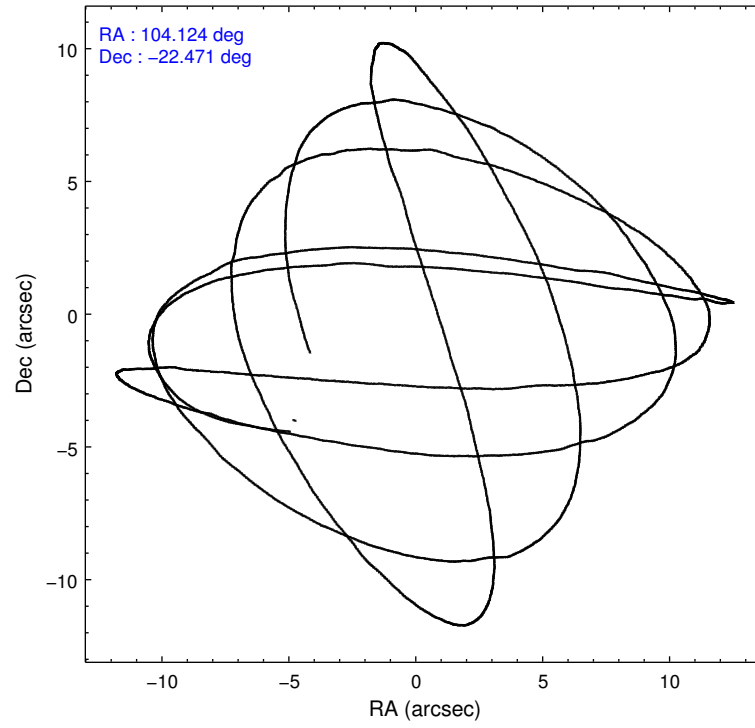
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	28744	27641	30643	34885	36195
rejected events	23841	24959	26520	20094	27481
rejected %	82%	90%	86%	57%	75%

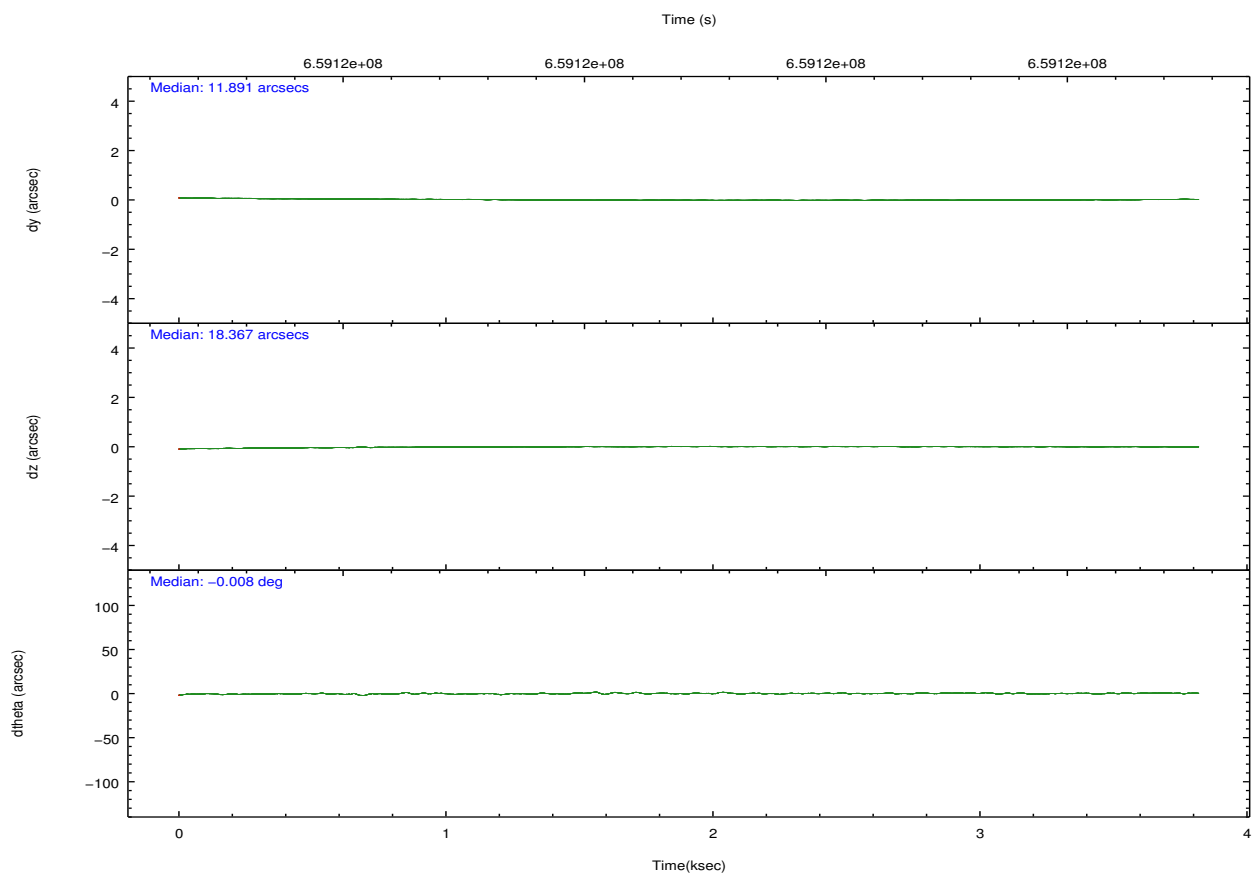
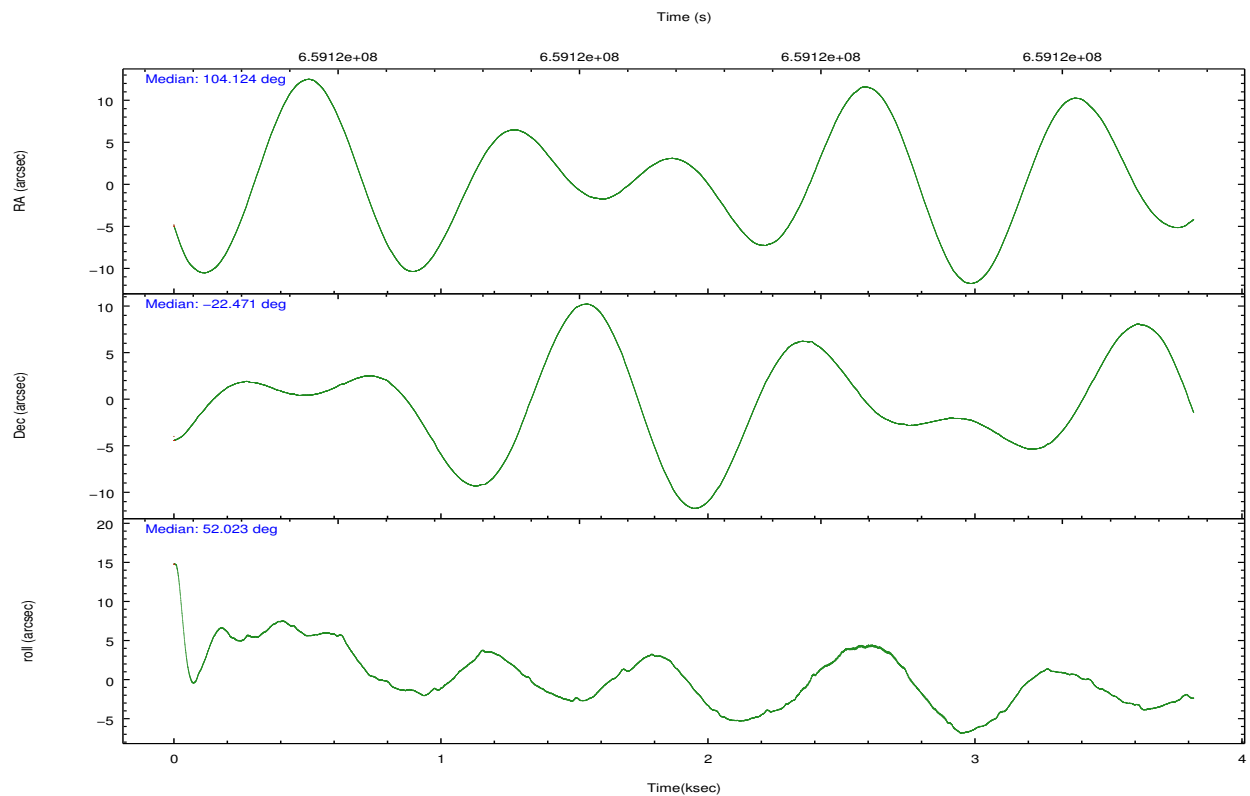
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3100	844	1866	1218	2495
	10%	3%	6%	3%	6%
grade 1 events	22	17	23	51	29
	0%	0%	0%	0%	0%
grade 2 events	624	619	904	3077	2163
	2%	2%	2%	8%	5%
grade 3 events	270	318	271	1107	905
	0%	1%	0%	3%	2%
grade 4 events	302	282	252	1157	865
	1%	1%	0%	3%	2%
grade 5 events	967	1197	1170	3321	1776
	3%	4%	3%	9%	4%
grade 6 events	610	620	833	8240	2297
	2%	2%	2%	23%	6%
grade 7 events	22849	23744	25324	16714	25665
	79%	85%	82%	47%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	104.120159	104.123818335399	CCD I2 on	O1	Y
[deg] Pointing Dec	-22.498312	-22.47092295452623	CCD I3 on	O2	Y
[deg] Pointing Roll	51.870890	52.0289655994637	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	Y	Y
[s] Observation start time (MET)	659120854.184000	659119789.22446	CCD S5 on	N	N
Observation start date	2018-11-20T17:06:25	2018-11-20T16:49:49	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	659124354.184000	659125151.51228	On-chip summing requested	N	N
Observation end date	2018-11-20T18:04:45	2018-11-20T18:19:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



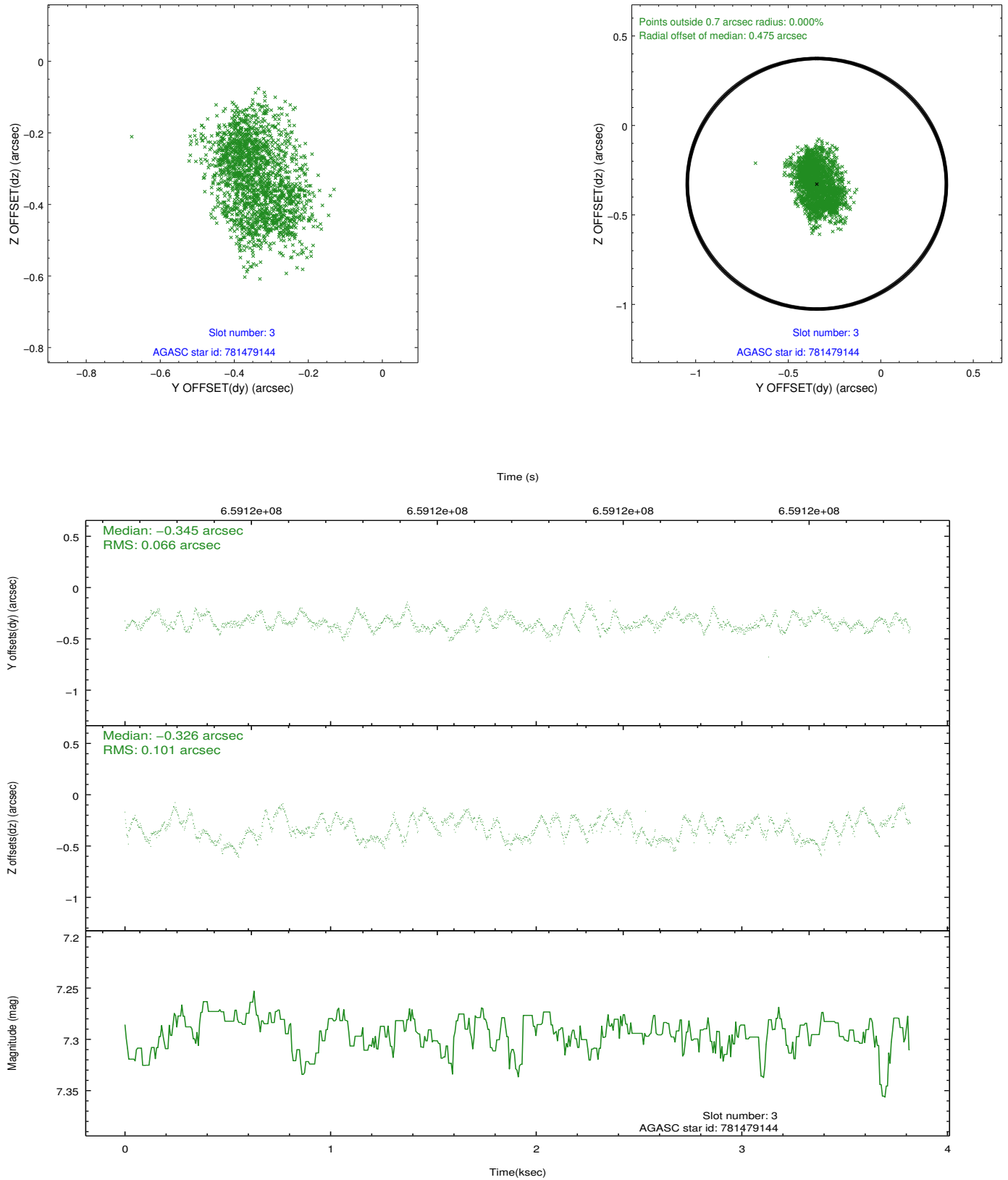


Slot Statistics

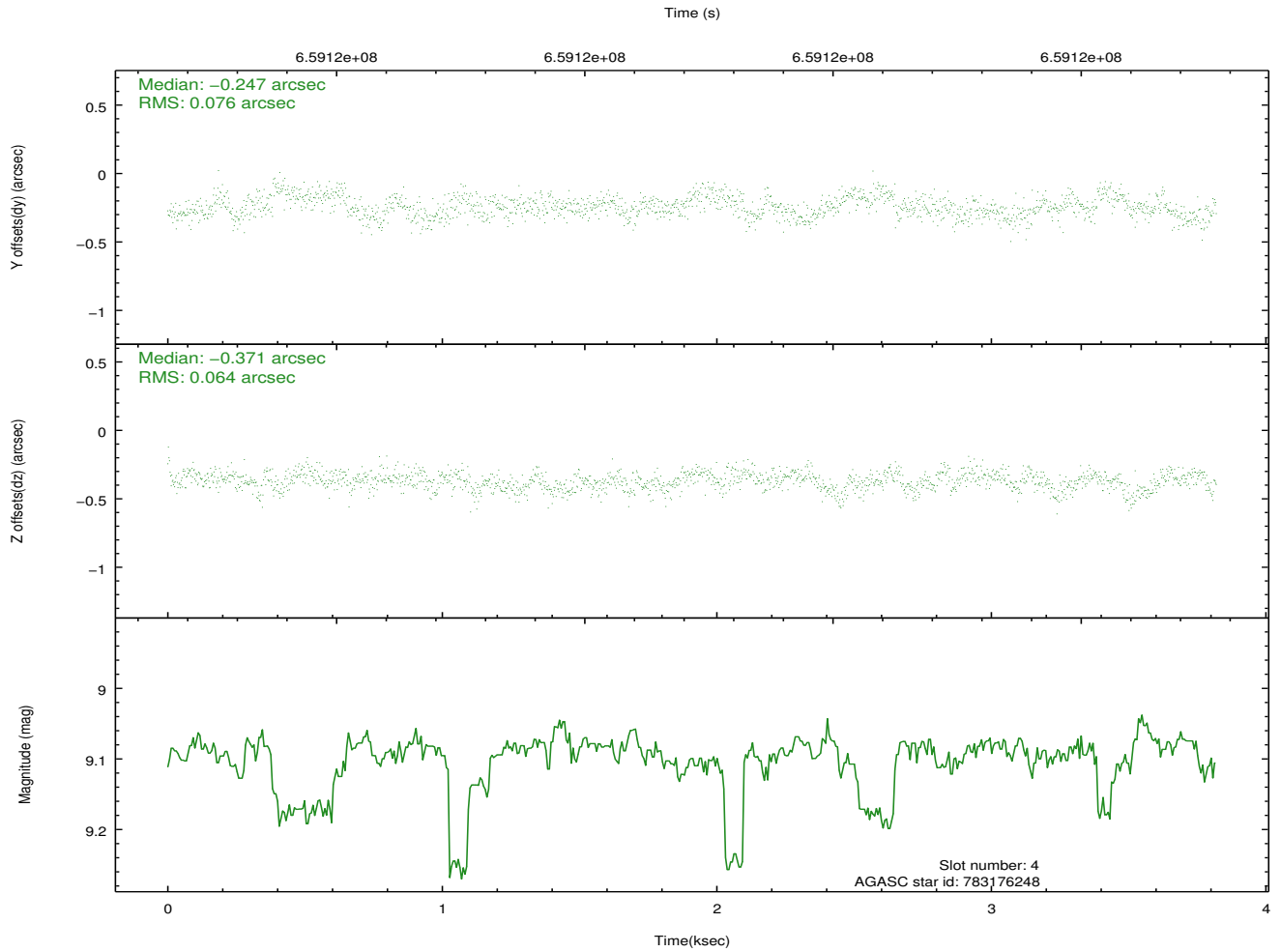
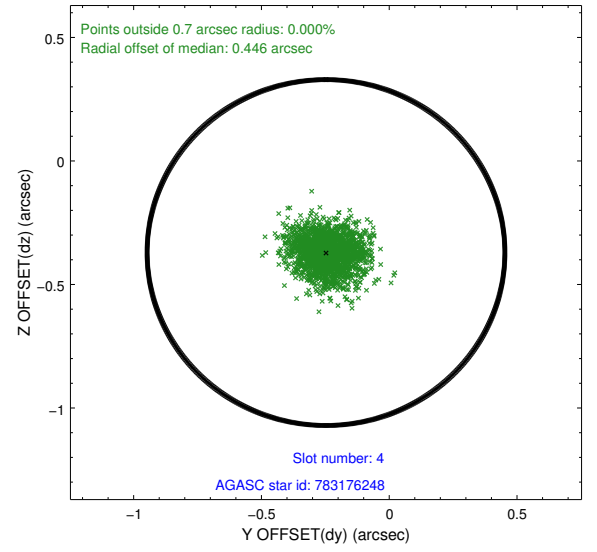
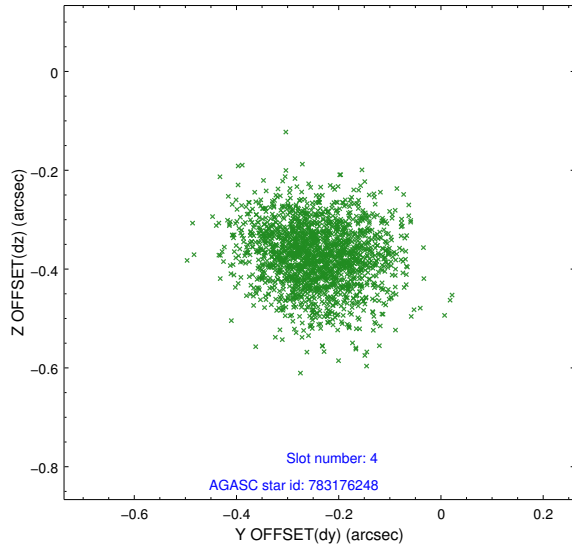
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.22	932	1.000	0.181	-0.052	0.007	0.013	0.000000	0.000000	931.51	-1735
1	FID		ACIS-S-5	7.24	932	1.000	-0.455	0.076	0.007	0.012	0.000000	0.000000	-1817.29	160
2	FID		ACIS-S-6	7.37	932	1.000	0.253	-0.012	0.007	0.012	0.000000	0.000000	395.25	806
3	GUIDE	used	781479144	7.29	1864	1.000	-0.345	-0.326	0.132	0.197	103.887045	-22.037454	823.84	1635
4	GUIDE	used	783176248	9.09	1861	1.000	-0.247	-0.371	0.106	0.172	104.481404	-21.970617	2238.08	223
5	GUIDE	used	783182896	7.19	1864	1.000	-0.007	-0.284	0.117	0.192	104.311530	-22.202870	1231.38	154
6	GUIDE	used	854863120	7.42	1864	1.000	0.458	0.670	0.083	0.135	104.394667	-23.157876	-1306.23	-2181
7	GUIDE	used	854986664	9.08	1862	1.000	0.140	0.331	0.169	0.281	104.843216	-22.516862	1427.27	-1937

2.4 Star Slots

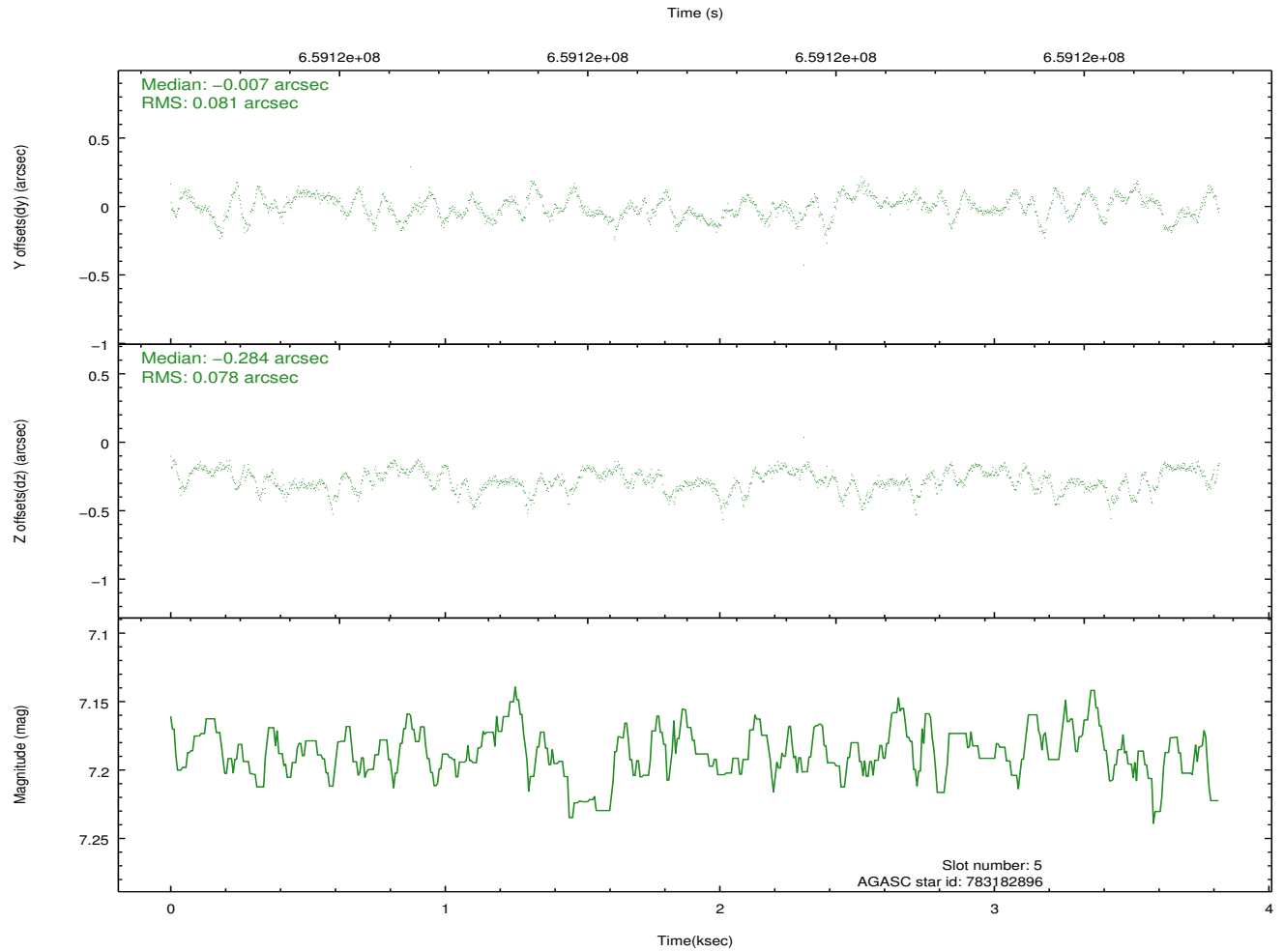
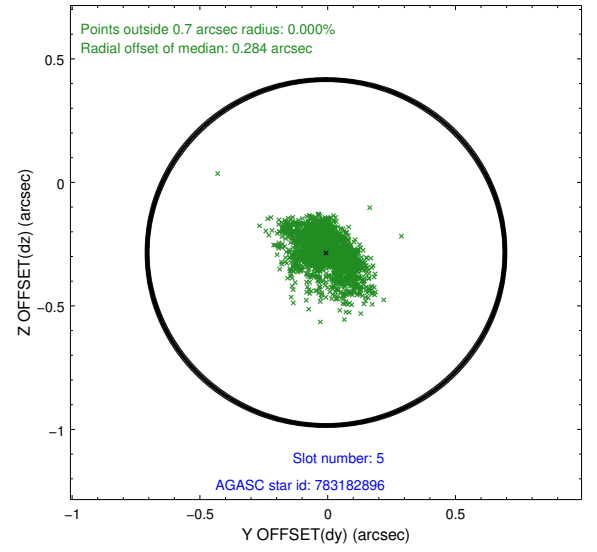
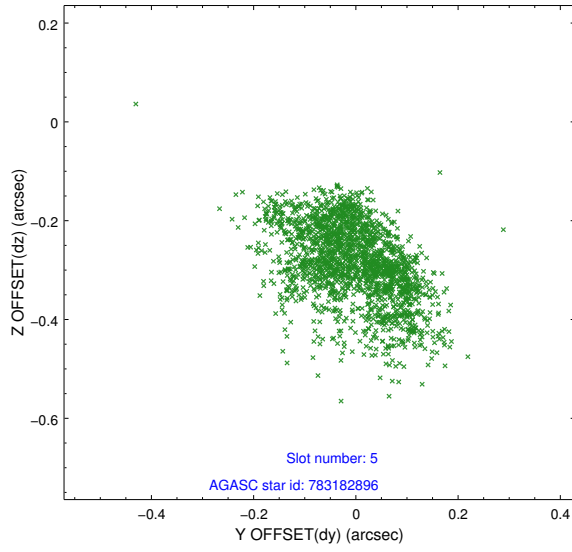
2.4.1 Slot 3



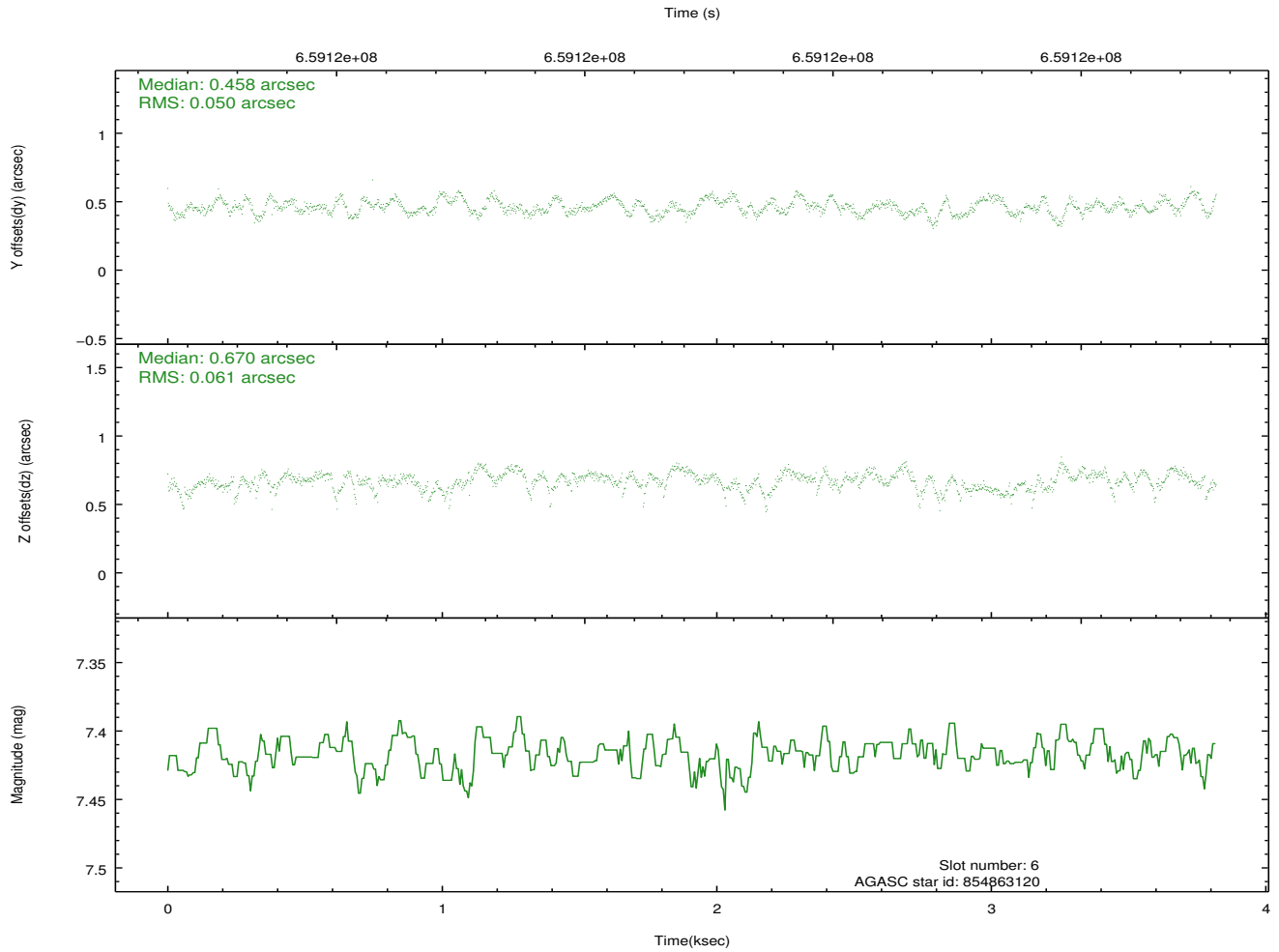
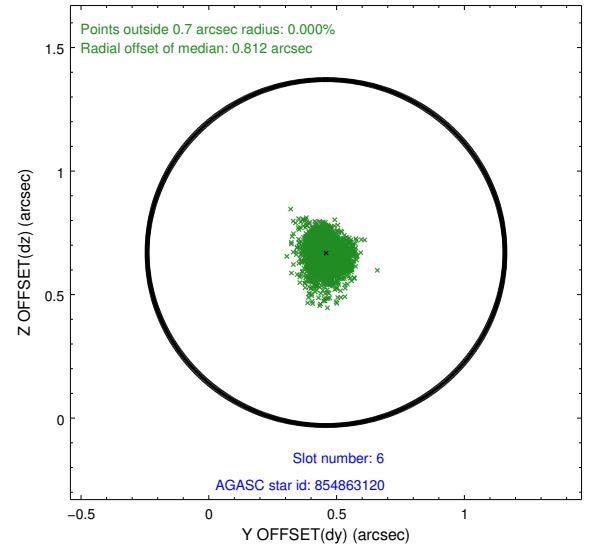
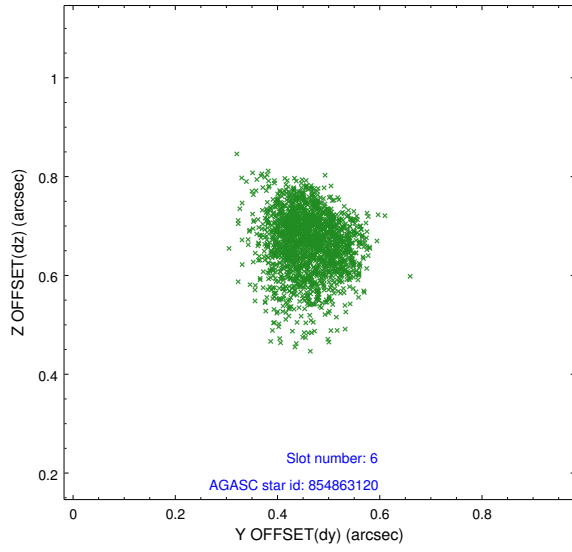
2.4.2 Slot 4



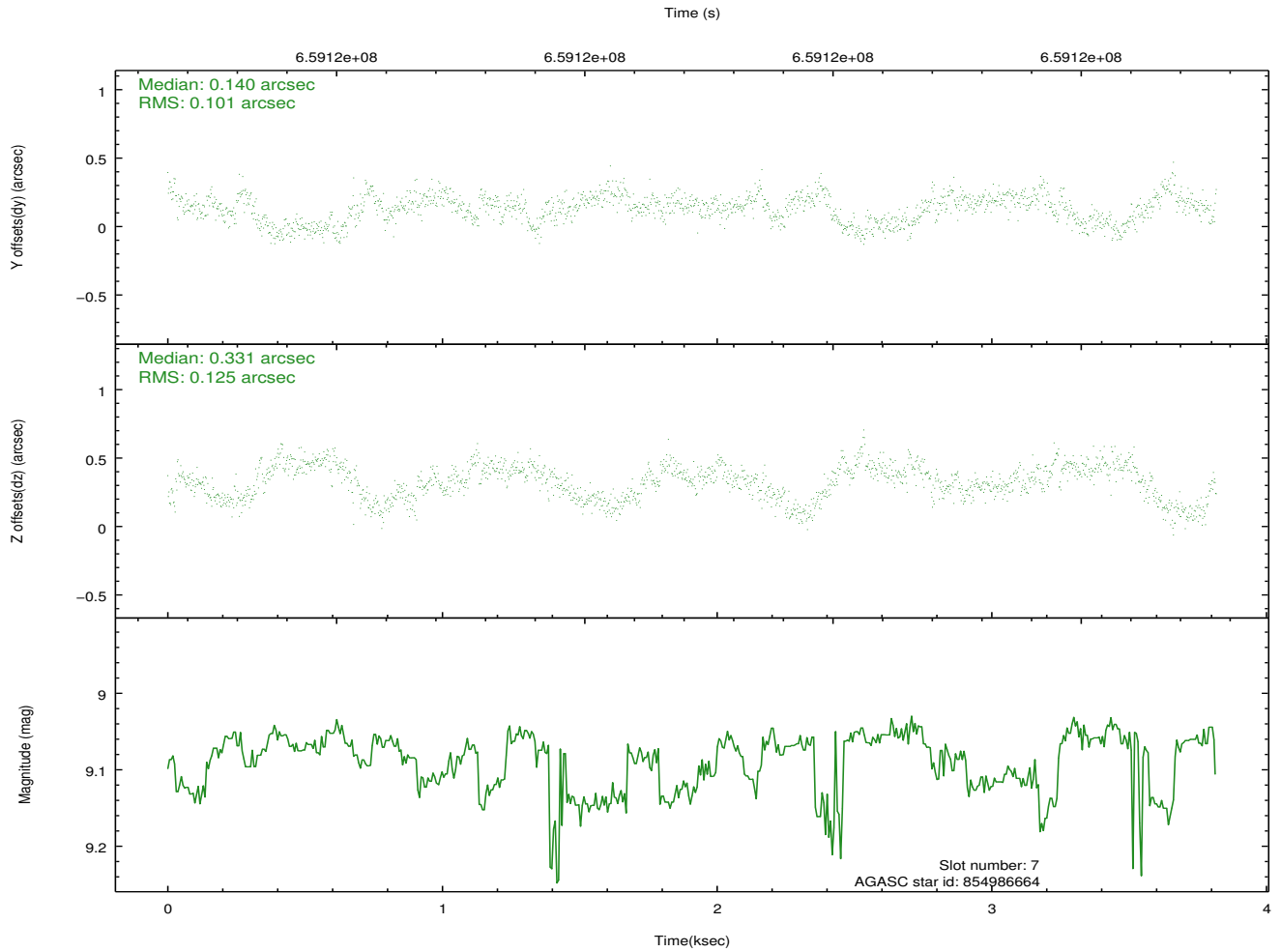
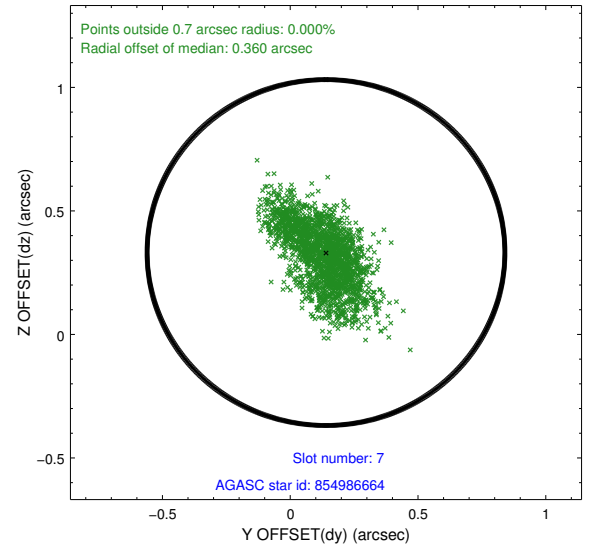
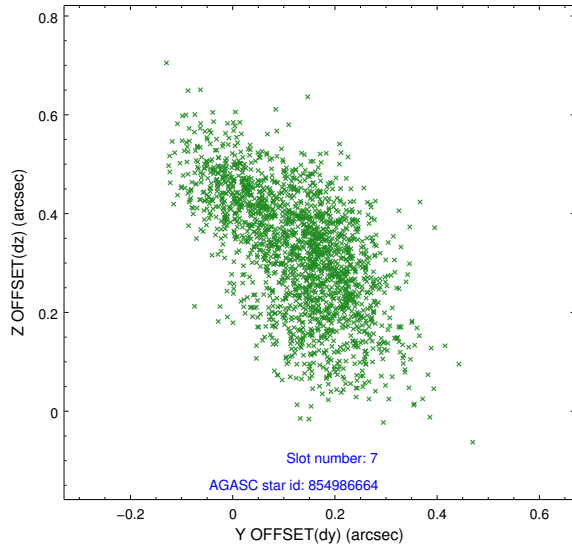
2.4.3 Slot 5



2.4.4 Slot 6

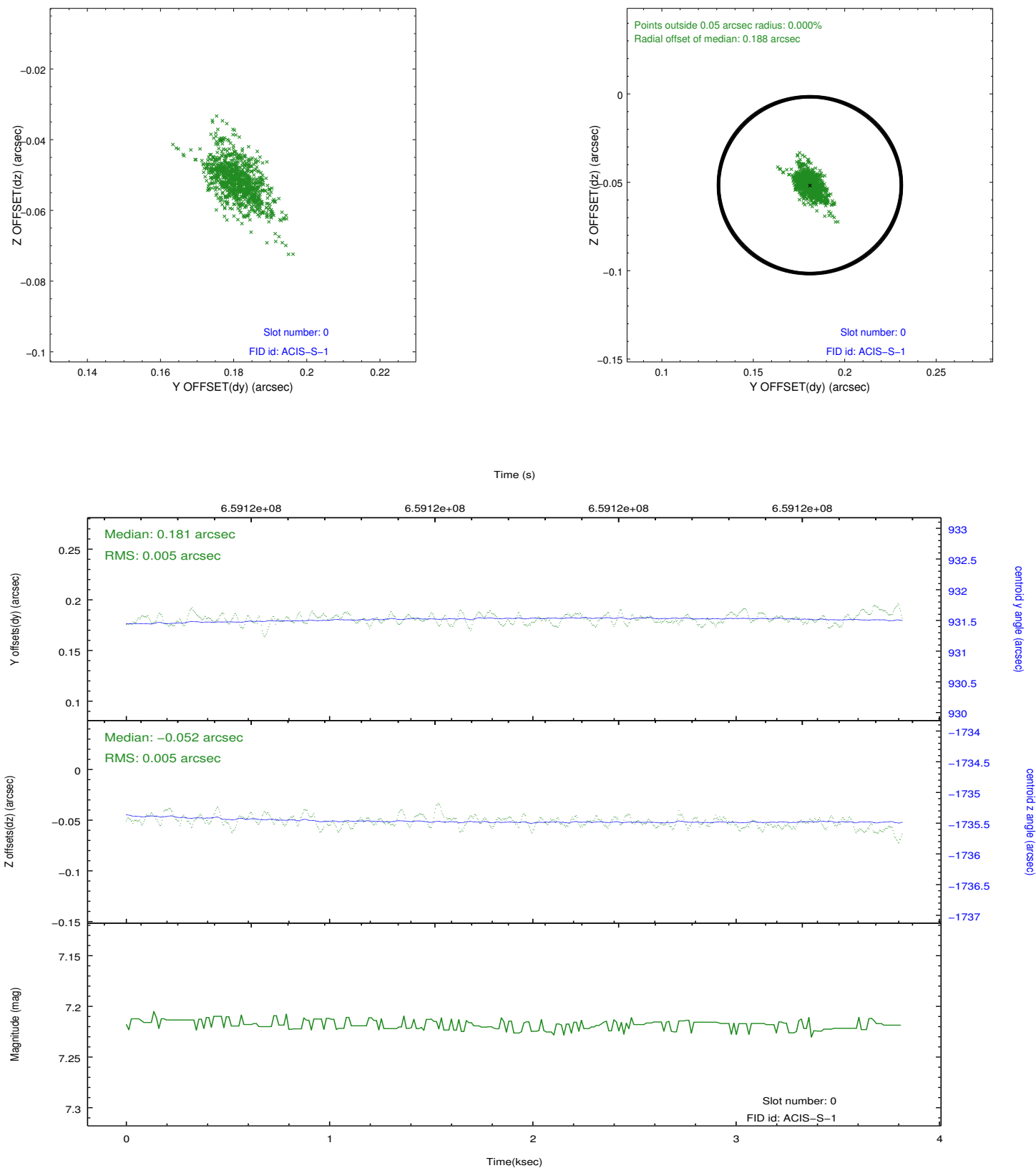


2.4.5 Slot 7

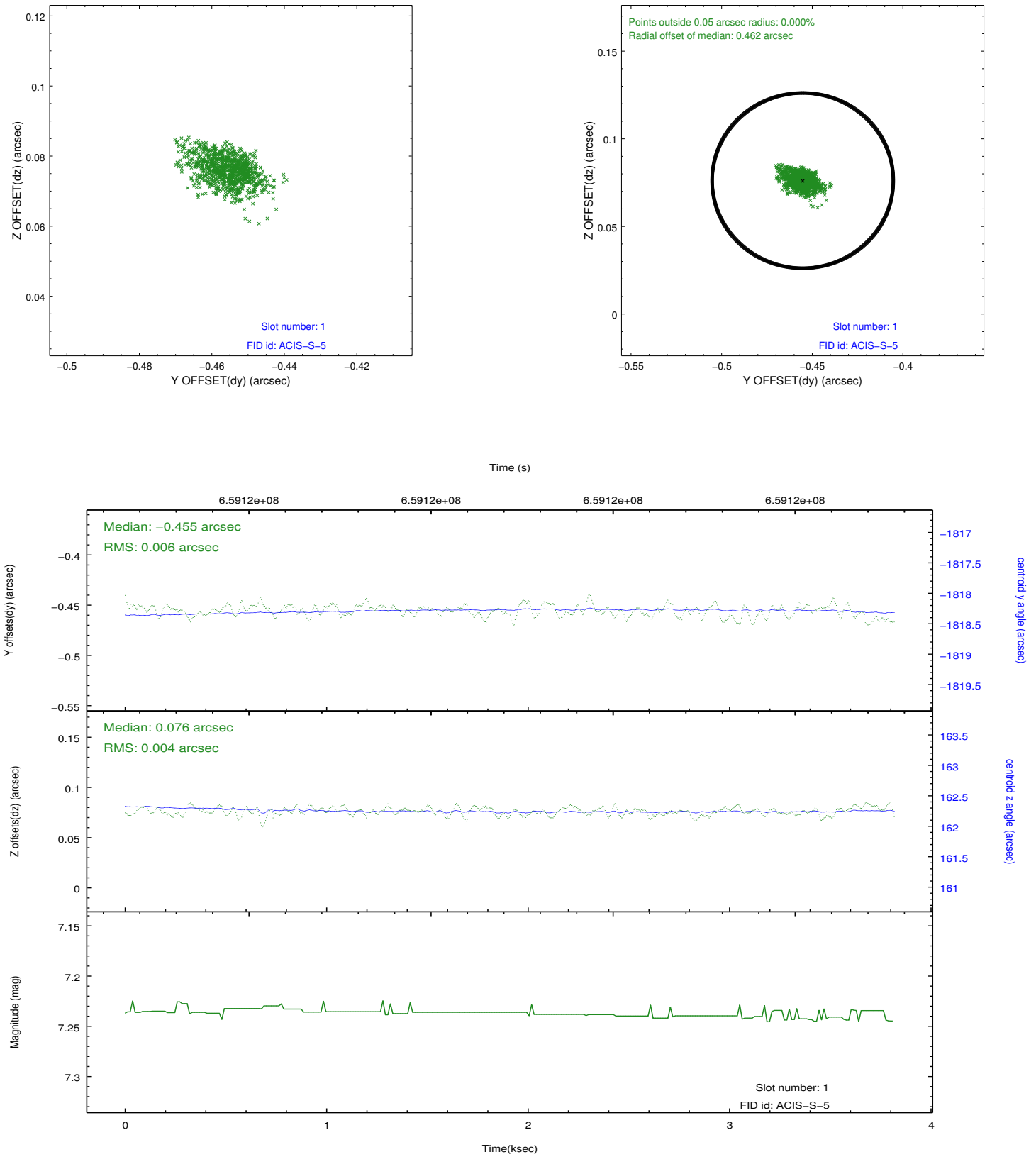


2.5 FID Slots

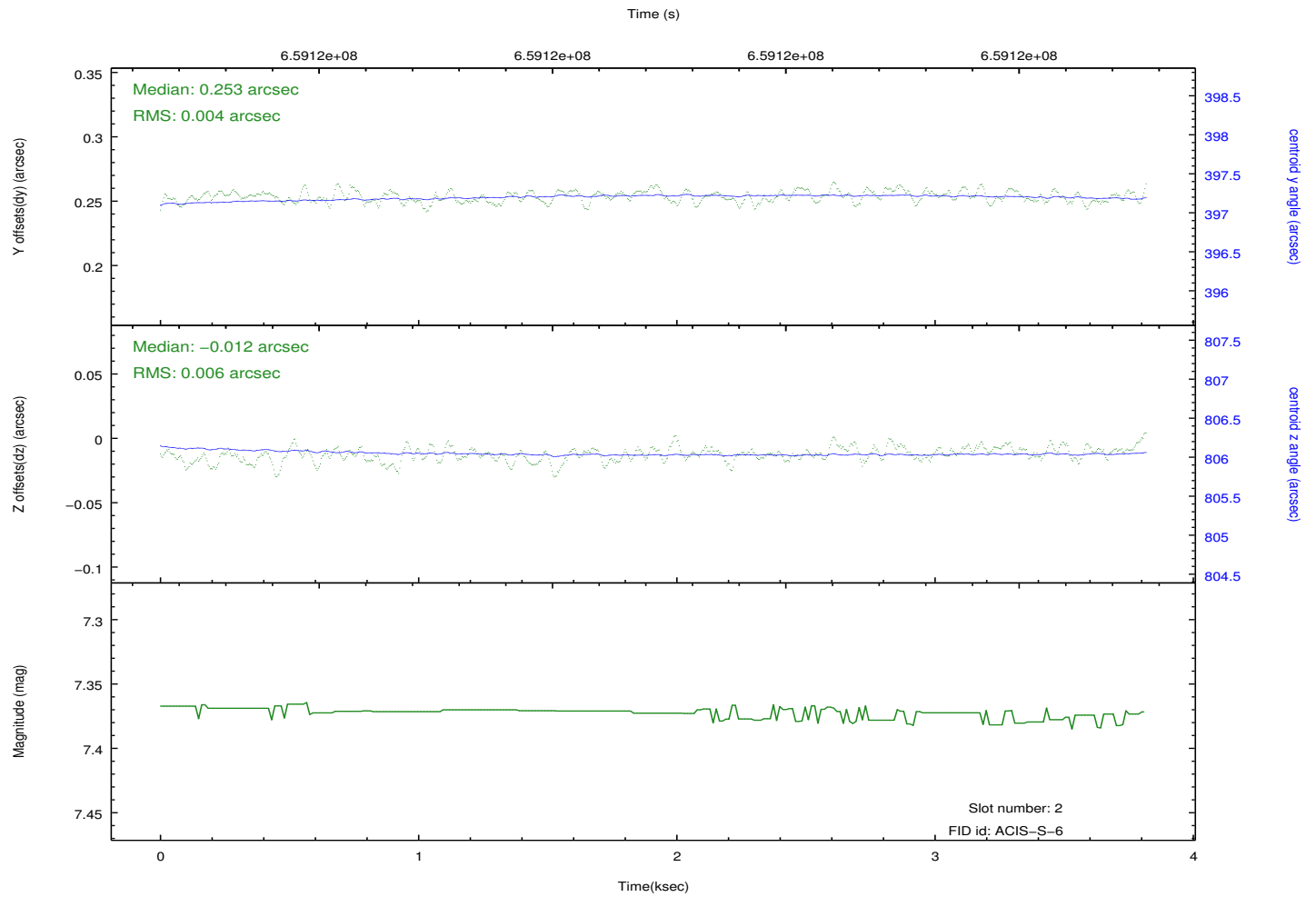
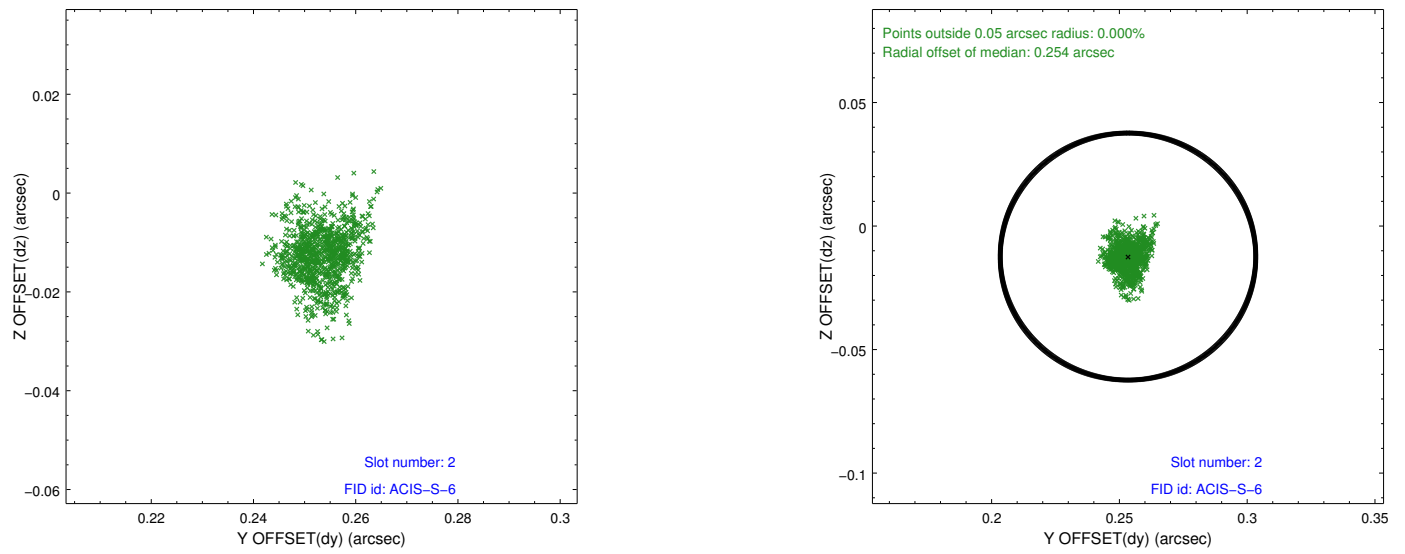
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.11.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5513333902359

A.2 Comments