

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19877 - L2 Version 1
Chandra X-Ray Center

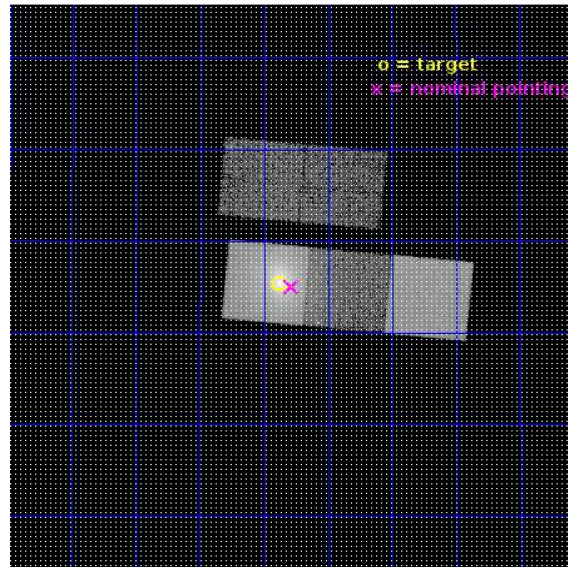
L2 Processing Date : Apr 23 2017

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1 Front

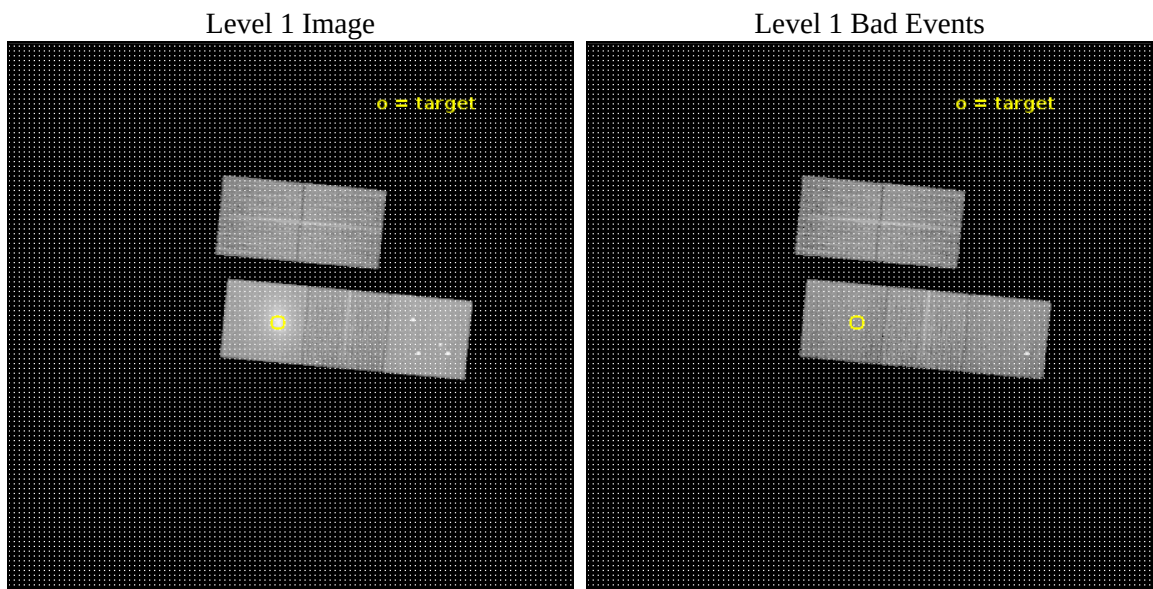
seq_num	890142	Sequence number
obs_id	19877	Observation id
title	AO-18 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.19647662005	Nominal RA [deg]
dec_nom	26.584235304872	Nominal Dec [deg]
roll_nom	185.46048969319	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15055.754384398	Sum of GTIs [s]
livetime	14859.039869481	Livetime [s]
ontime2	15052.44918406	Sum of GTIs [s]
ontime3	15055.631264448	Sum of GTIs [s]
ontime5	15055.713344455	Sum of GTIs [s]
ontime6	15055.672304392	Sum of GTIs [s]
ontime7	15055.754384398	Sum of GTIs [s]
l2events	279835	Number of level 2 events



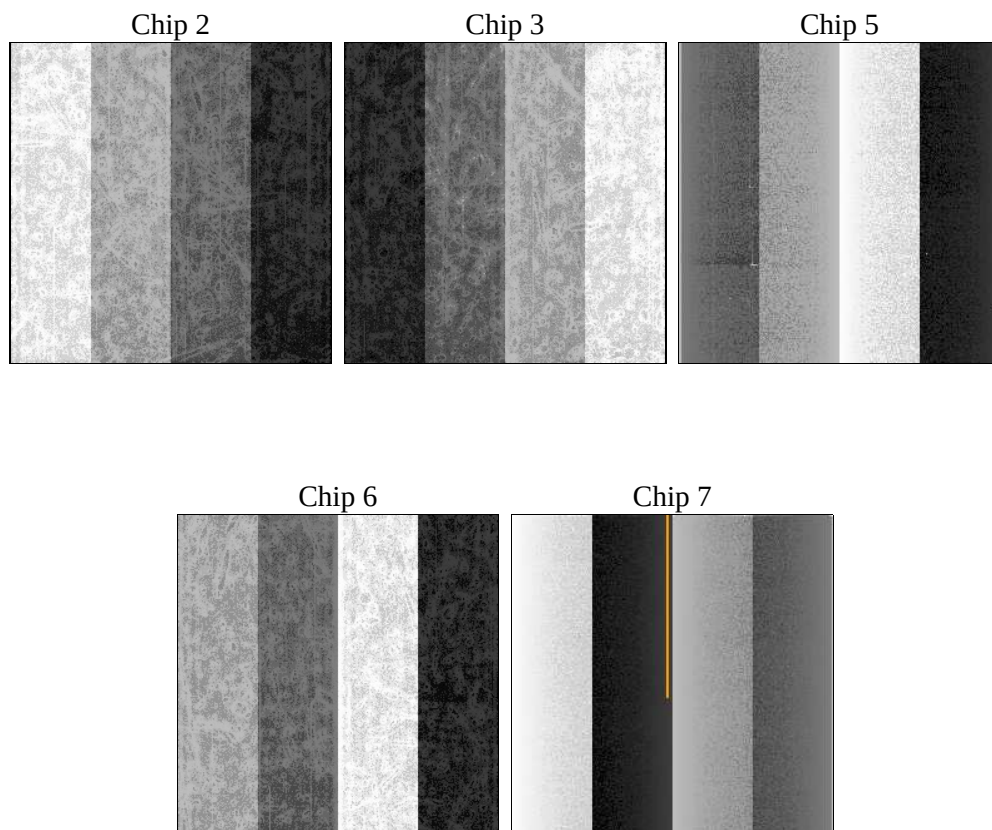
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	15055.754384398	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	15052.44918406	Sum of GTIs [s]
date	2017-04-23T13:39:38	Date and time of file creation	ontime3	15055.631264448	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	15055.713344455	Sum of GTIs [s]
			ontime6	15055.672304392	Sum of GTIs [s]
			ontime7	15055.754384398	Sum of GTIs [s]
			l1events	736272	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	101204	98588	177585	113196	245699
rejected events	89525	86598	88193	94077	76647
rejected %	88%	87%	49%	83%	31%

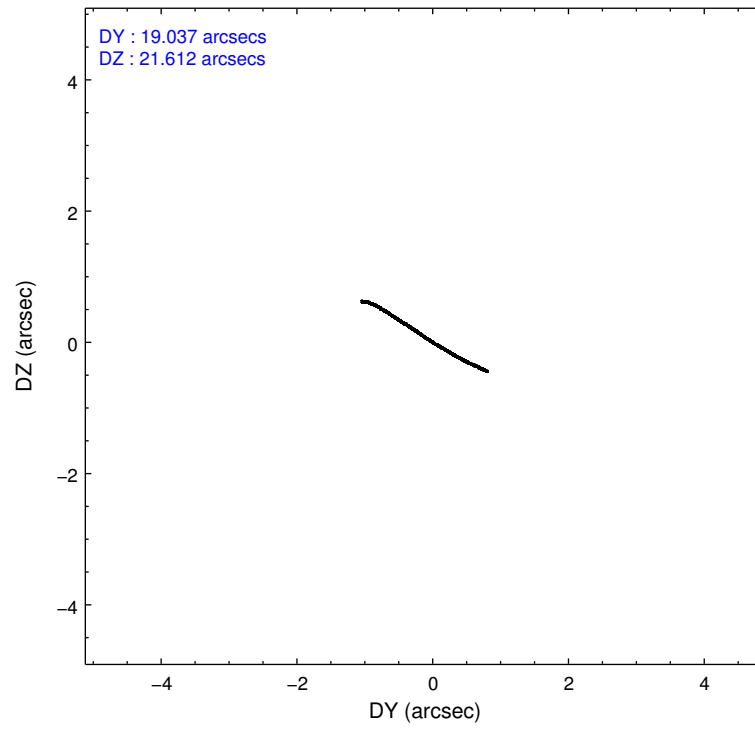
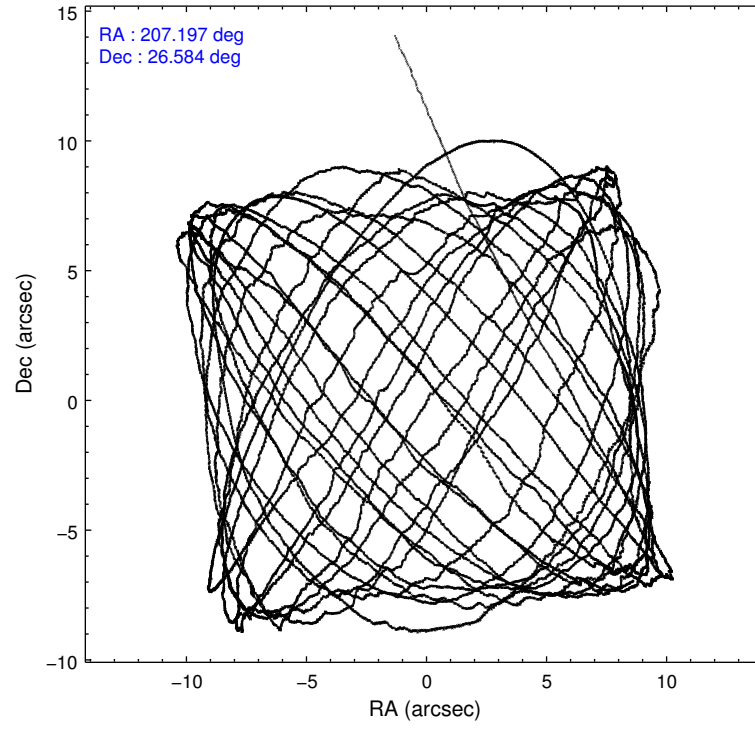
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4619	4938	14798	9613	35688
	4%	5%	8%	8%	14%
grade 1 events	54	60	350	89	242
	0%	0%	0%	0%	0%
grade 2 events	2724	2381	26604	3684	42003
	2%	2%	14%	3%	17%
grade 3 events	1124	1206	2645	1486	17313
	1%	1%	1%	1%	7%
grade 4 events	1155	1202	2568	1458	16844
	1%	1%	1%	1%	6%
grade 5 events	3875	4805	12171	4876	14109
	3%	4%	6%	4%	5%
grade 6 events	2064	2273	42823	2889	57281
	2%	2%	24%	2%	23%
grade 7 events	85589	81723	75626	89101	62219
	84%	82%	42%	78%	25%

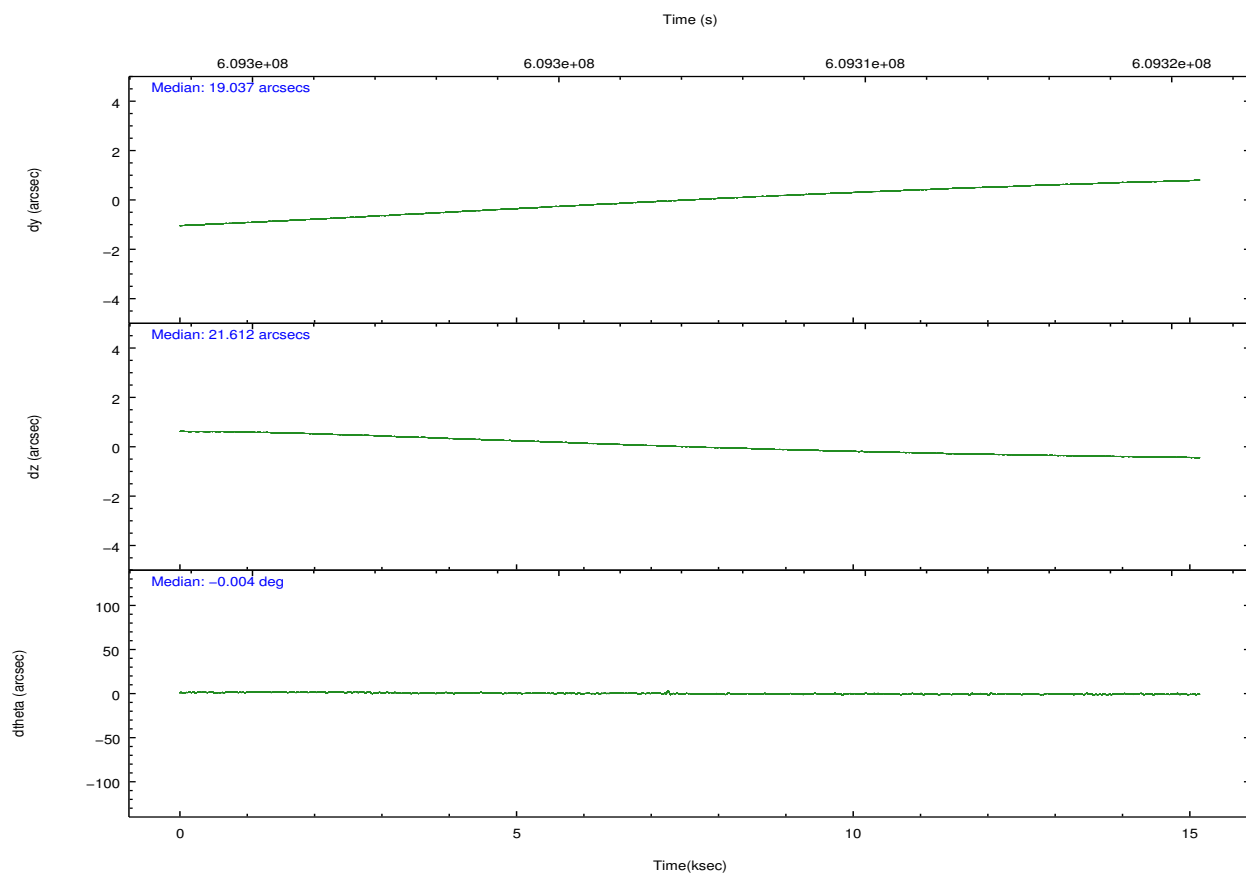
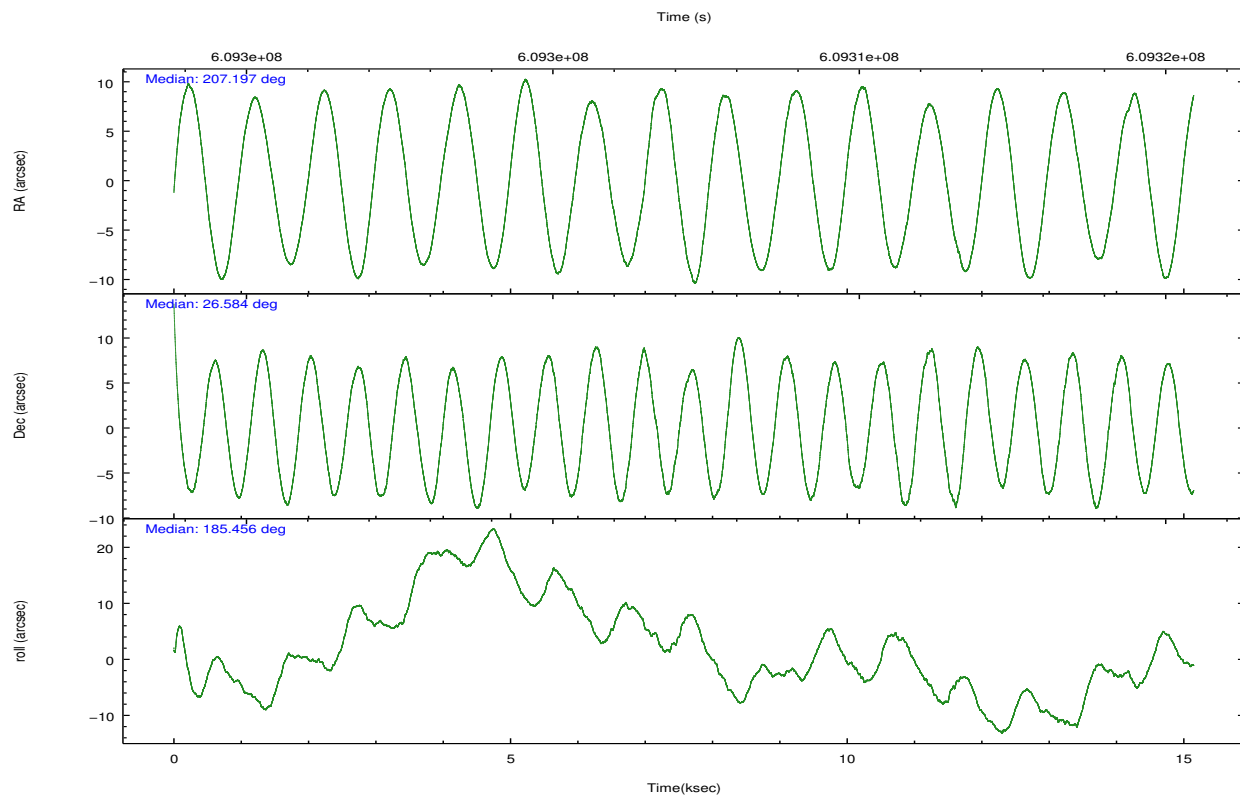
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	207.221222	207.1964766200485
[deg] Pointing Dec	26.600458	26.58423530487155
[deg] Pointing Roll	185.292804	185.4604896931867
[s] Window start time (MET)	607392069.184000	607392069.184000
[s] Window stop time (MET)	609897669.184000	609897669.184000
[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)	609299702.184000	609298571.12476
Observation start date	2017-04-23T01:53:53	2017-04-23T01:36:11
[s] Observation end time (MET)	609314702.184000	609316061.2132699
Observation end date	2017-04-23T06:03:53	2017-04-23T06:27:41
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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



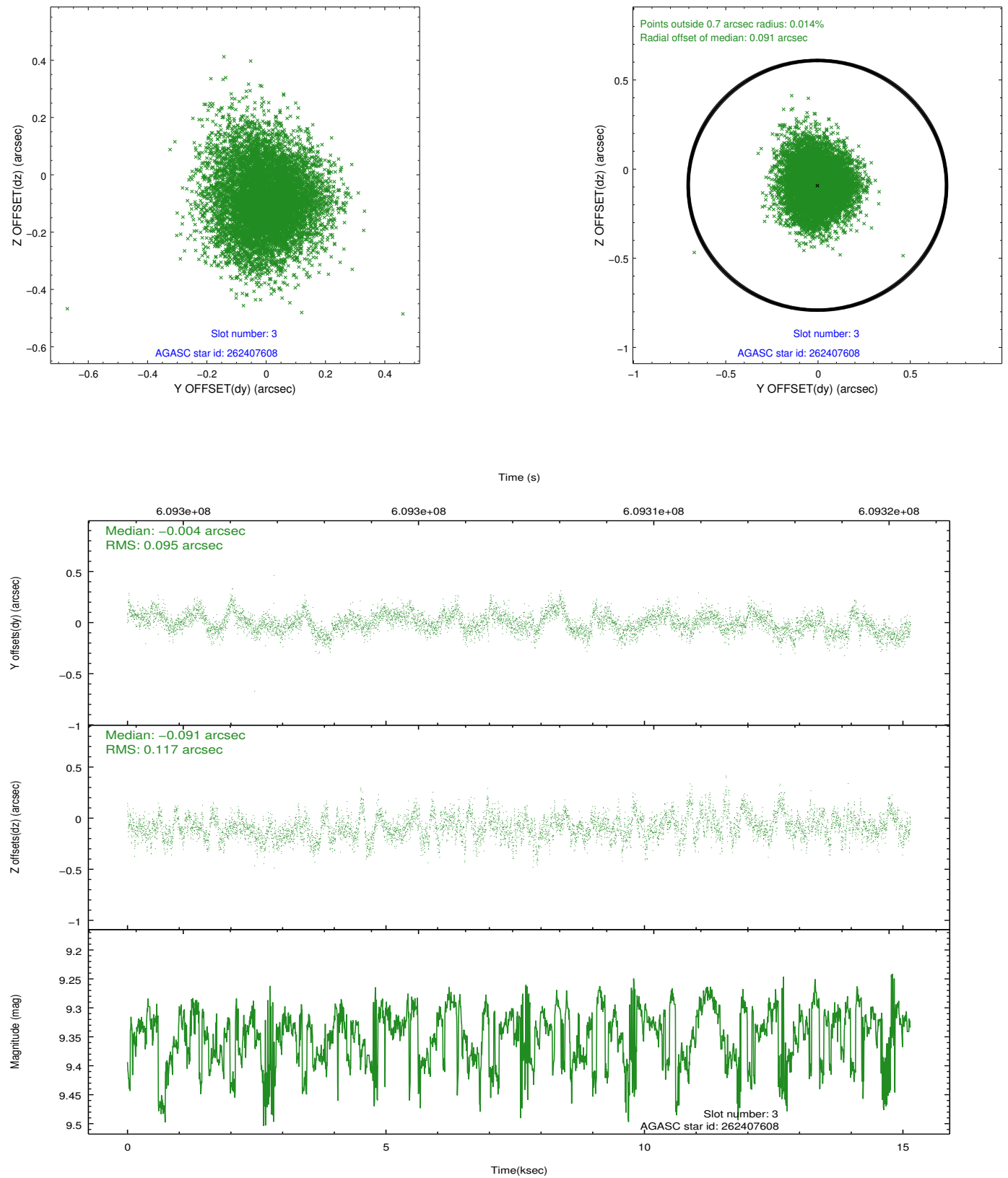


Slot Statistics

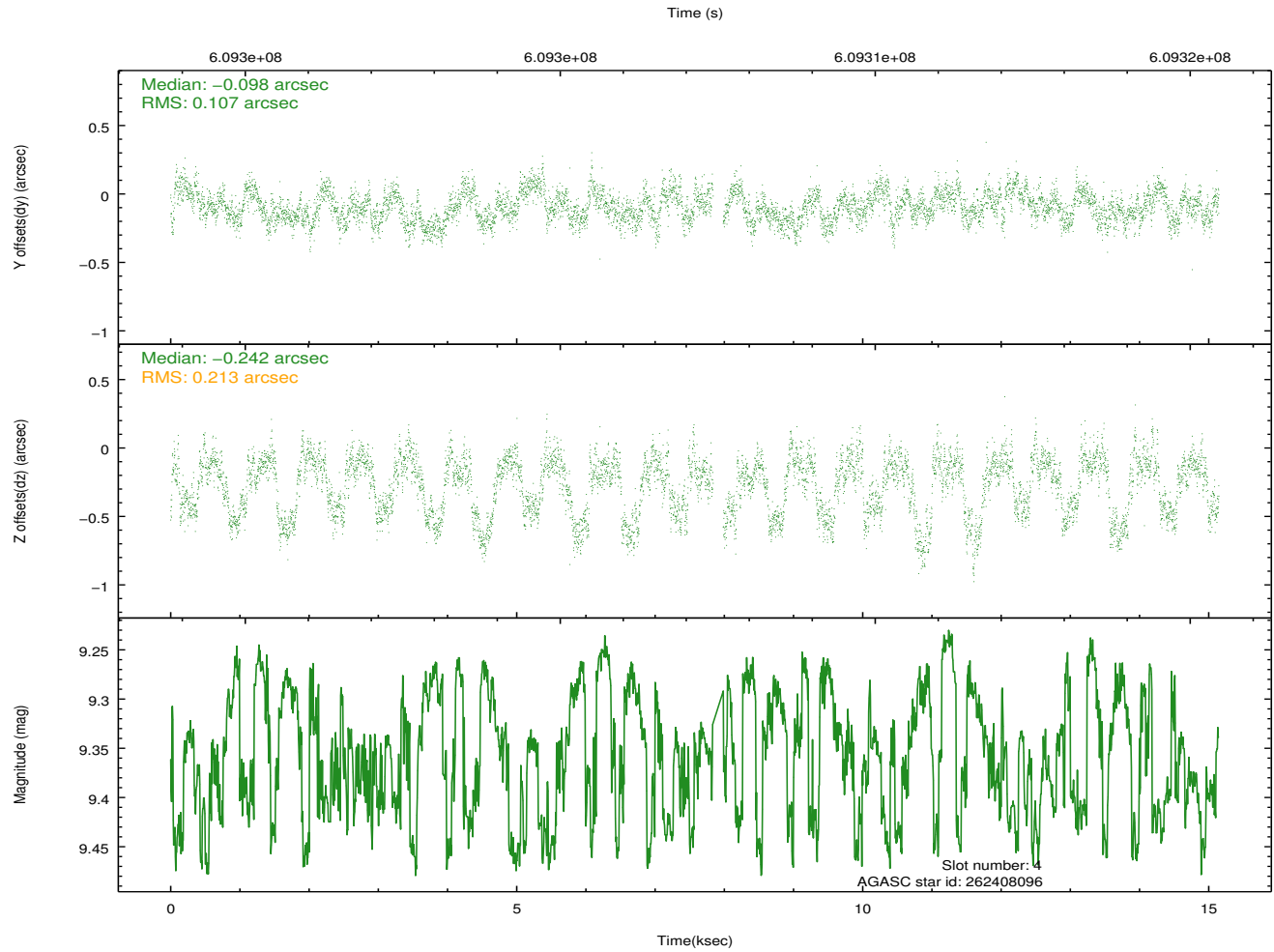
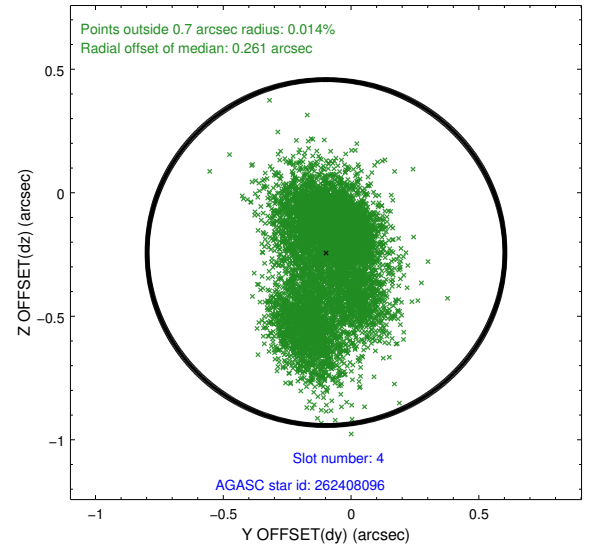
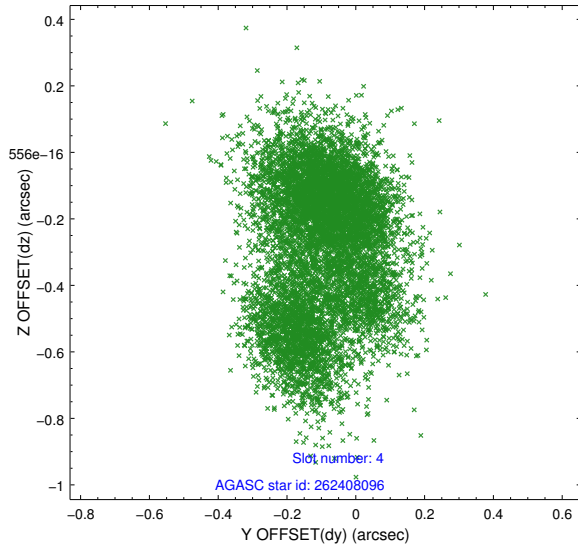
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	3695	-0.236	-0.142	0.022	0.041	0.000000	0.000000	-772.30	-1743.31
1	FID		ACIS-S-4	7.12	3695	0.532	0.151	0.019	0.046	0.000000	0.000000	2141.59	165.16
2	FID		ACIS-S-5	7.12	3695	-0.324	-0.003	0.014	0.027	0.000000	0.000000	-1824.86	159.01
3	GUIDE	used	262407608	9.34	7376	-0.004	-0.091	0.160	0.257	207.378401	26.435507	-449.45	637.86
4	GUIDE	used	262408096	9.36	7308	-0.098	-0.242	0.252	0.414	207.011678	26.515421	701.35	241.73
5	GUIDE	used	262408512	7.97	7389	0.108	0.233	0.135	0.218	207.800210	27.128796	-2022.11	-1726.80
6	GUIDE	used	262408936	9.68	7382	-0.222	0.127	0.237	0.367	207.154731	26.726554	170.84	-471.49
7	GUIDE	used	262409552	8.16	7387	0.219	-0.013	0.215	0.351	206.584269	27.192805	1835.03	-2316.17

2.4 Star Slots

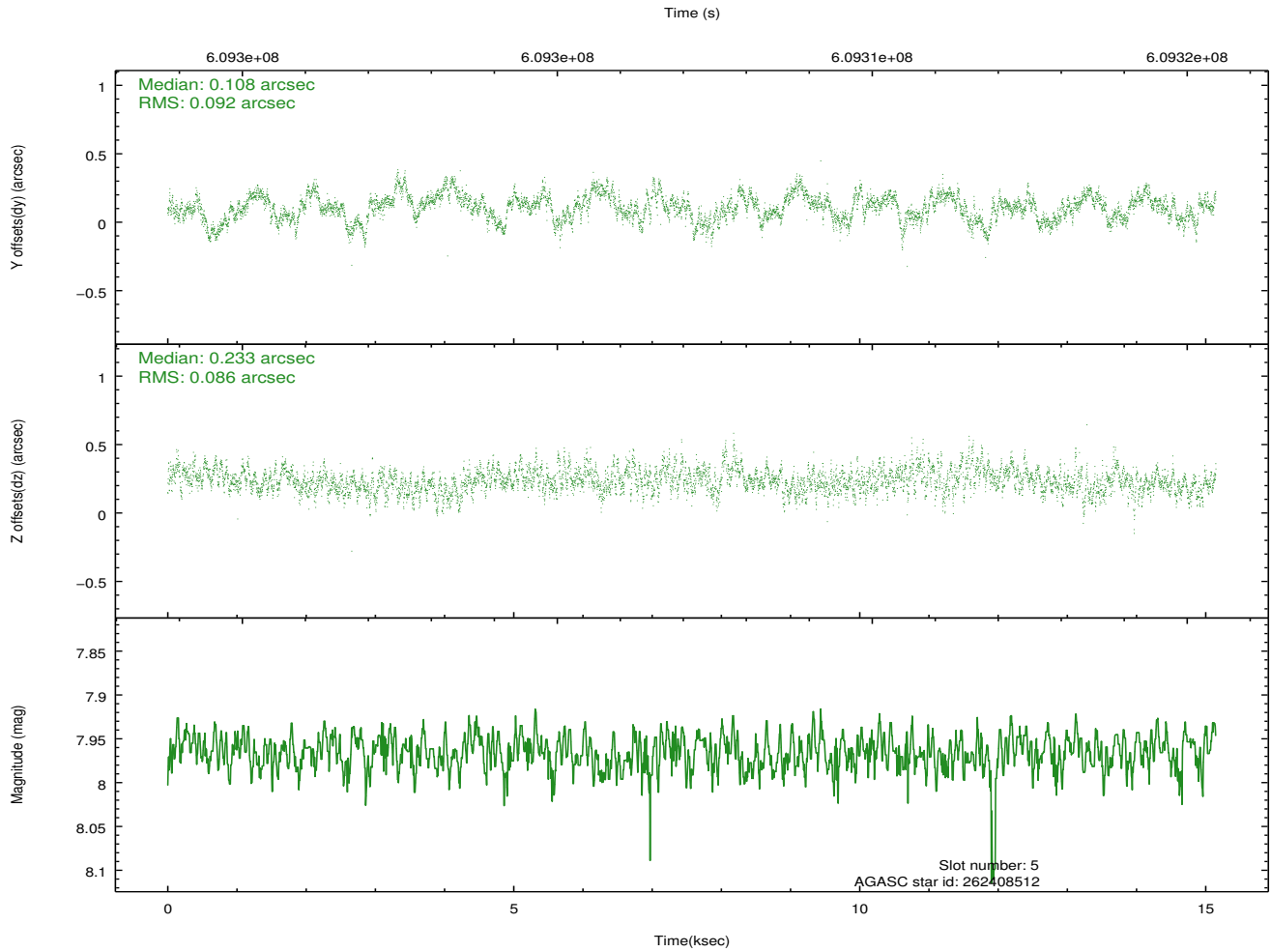
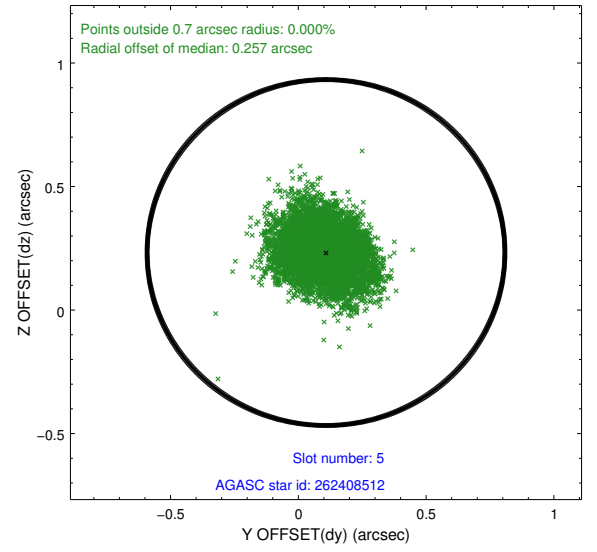
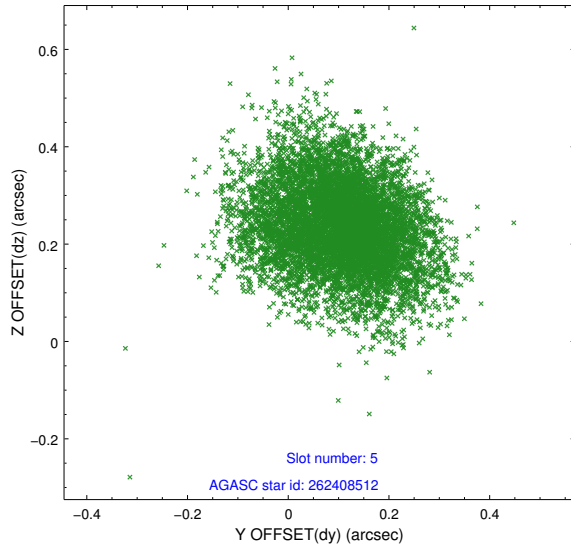
2.4.1 Slot 3



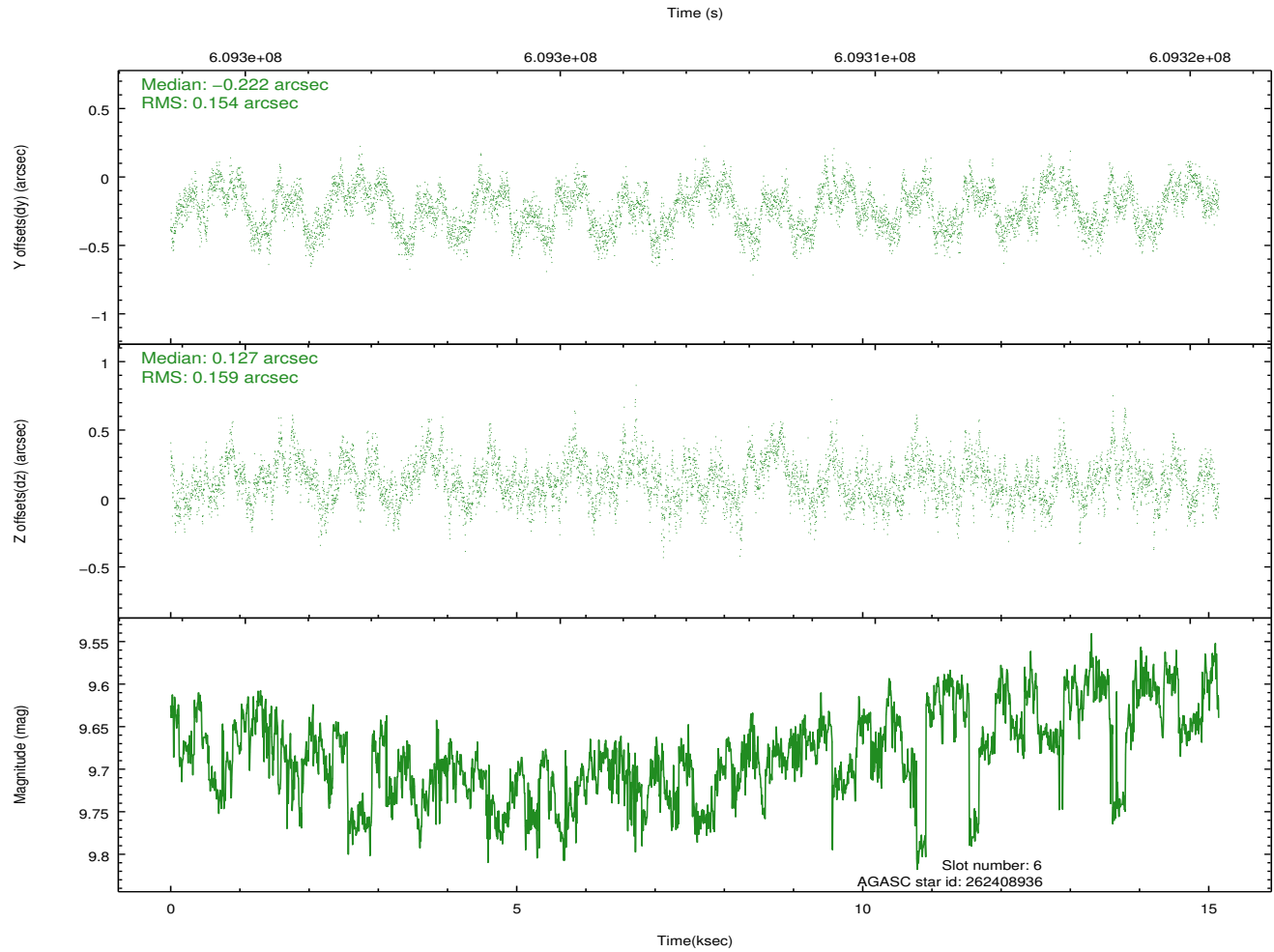
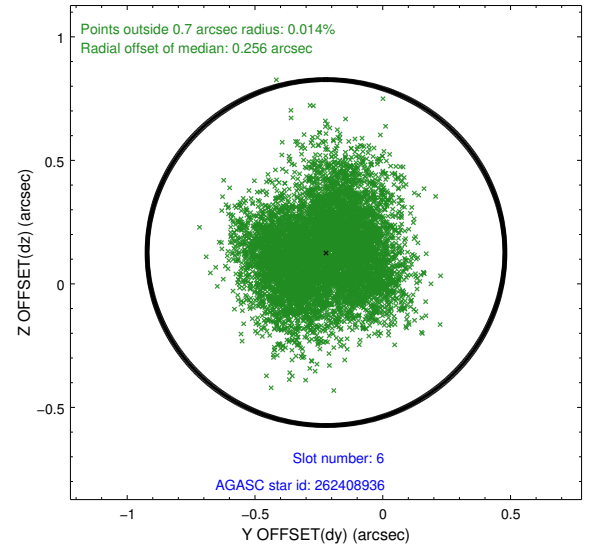
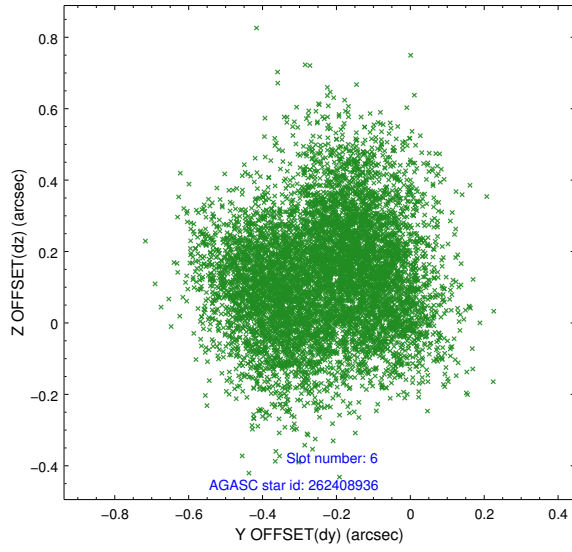
2.4.2 Slot 4



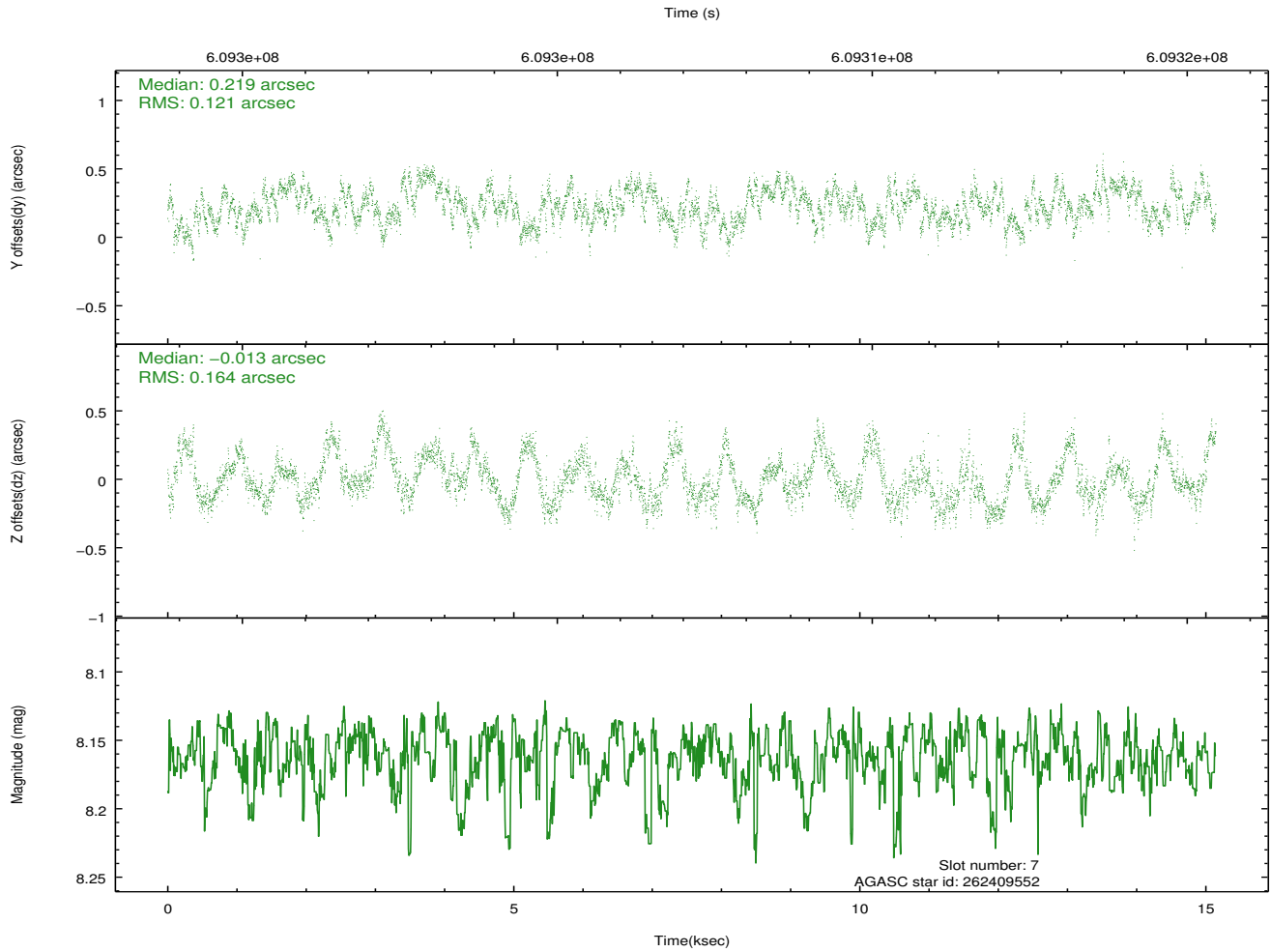
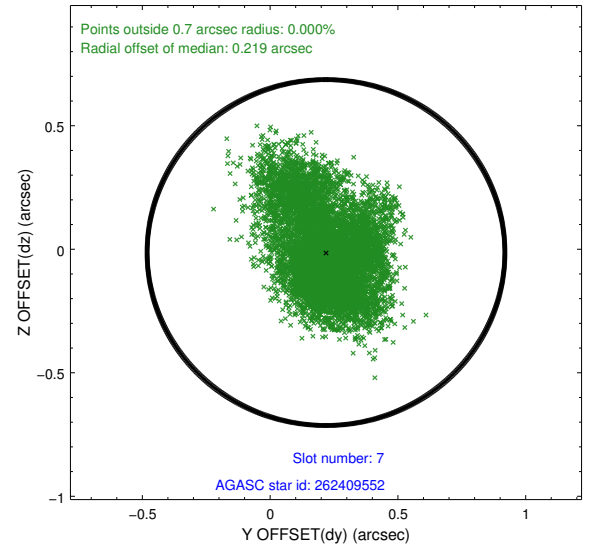
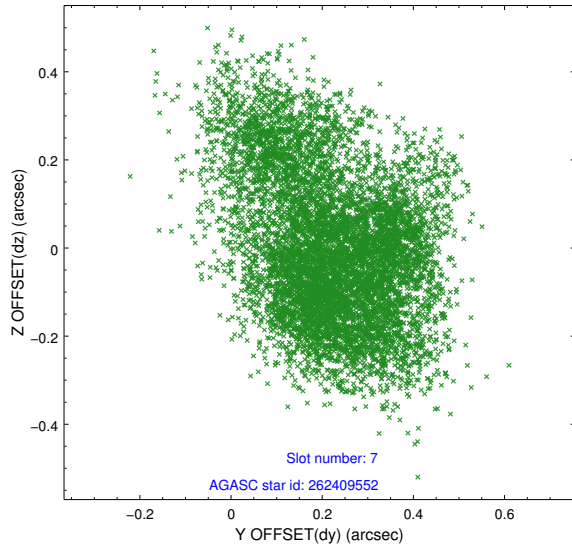
2.4.3 Slot 5



2.4.4 Slot 6

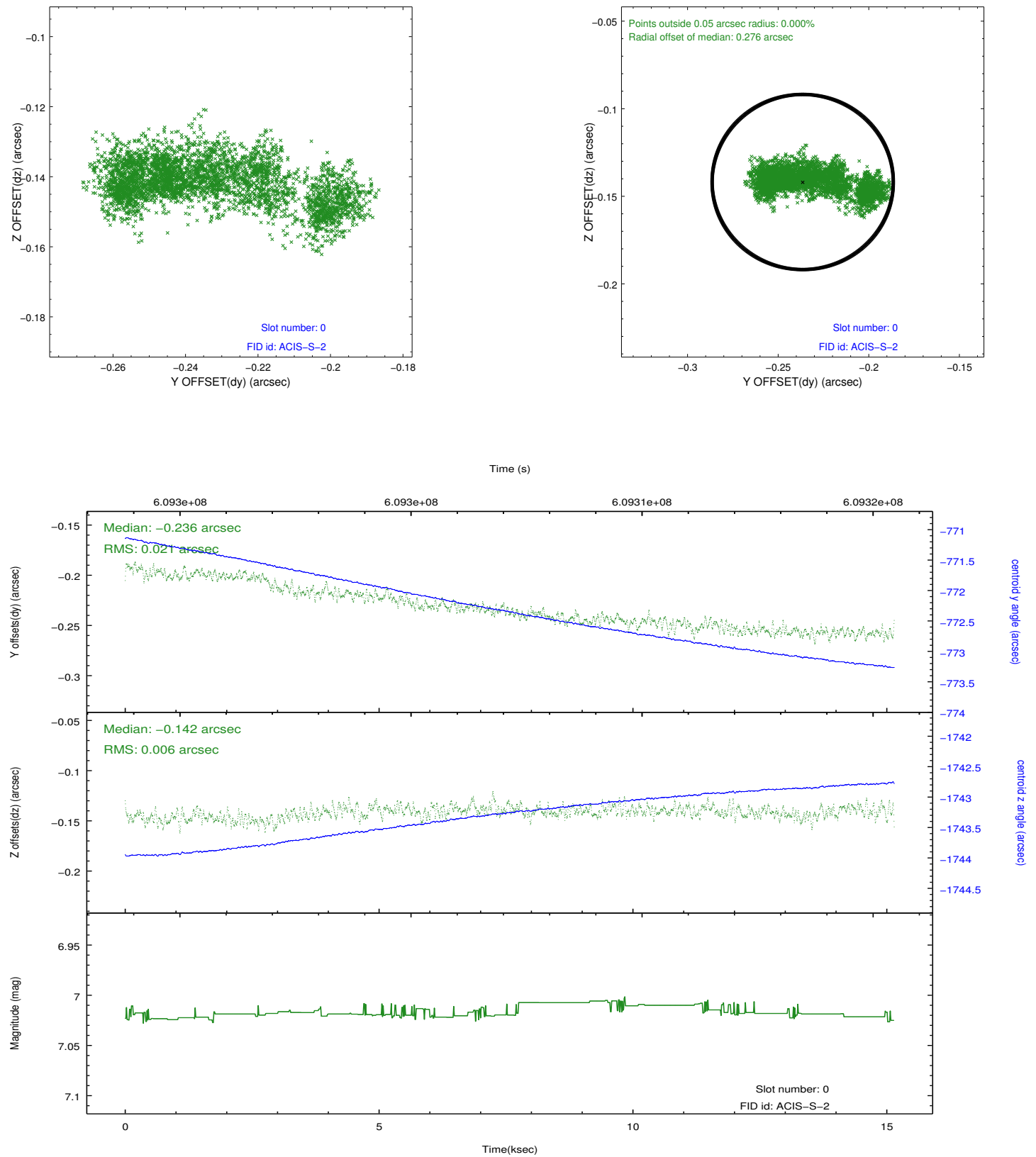


2.4.5 Slot 7

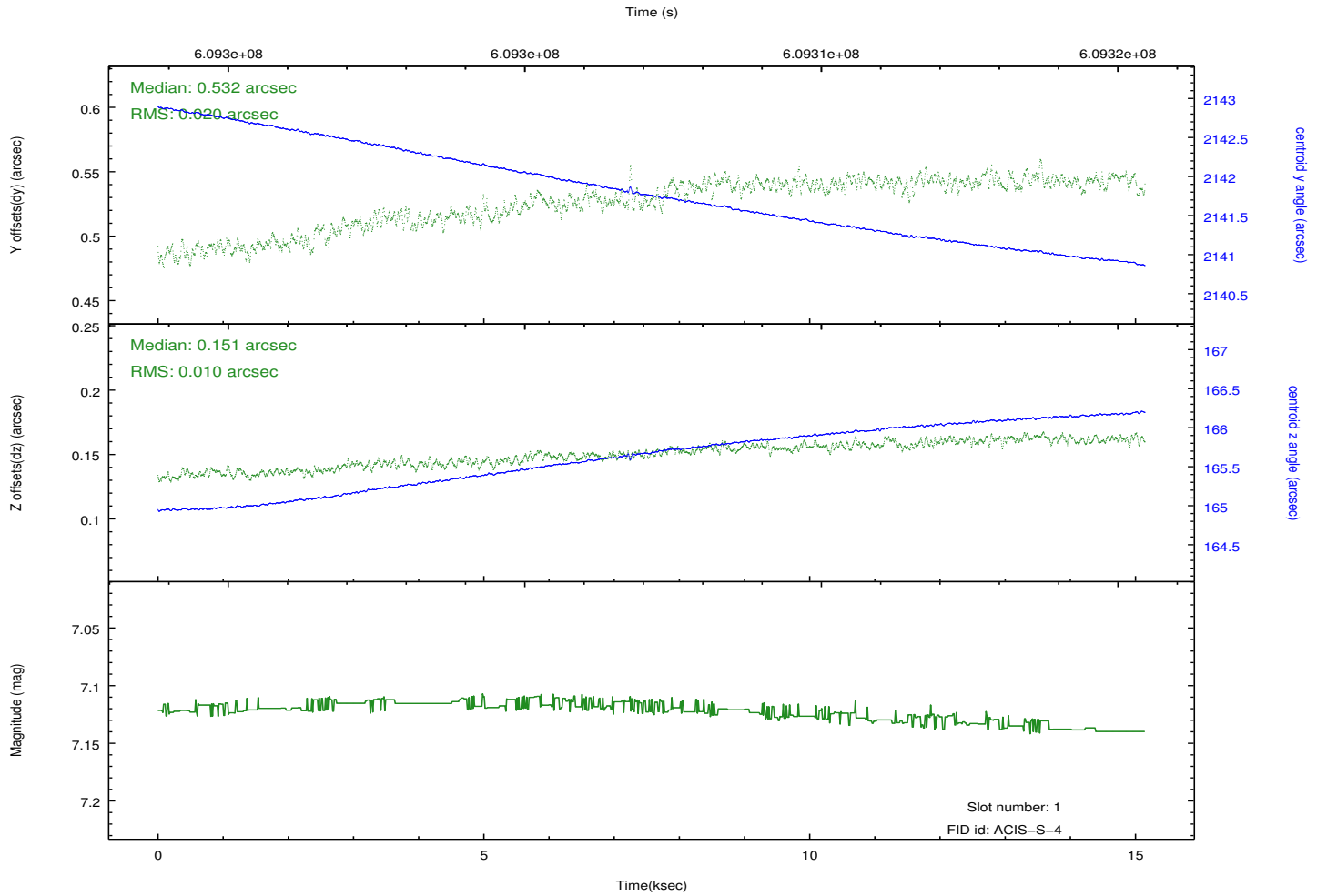
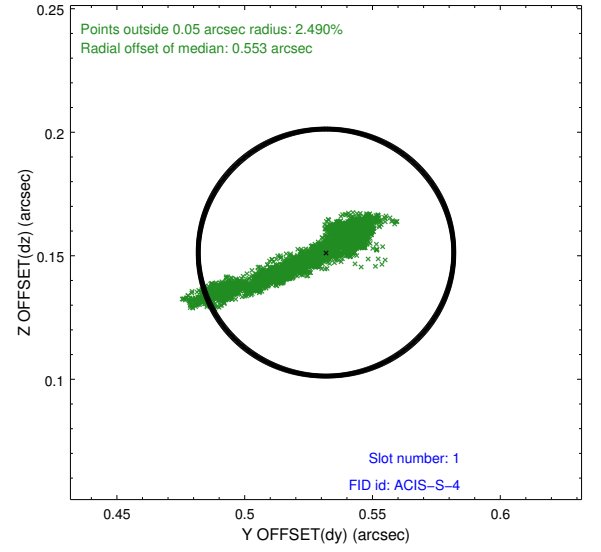
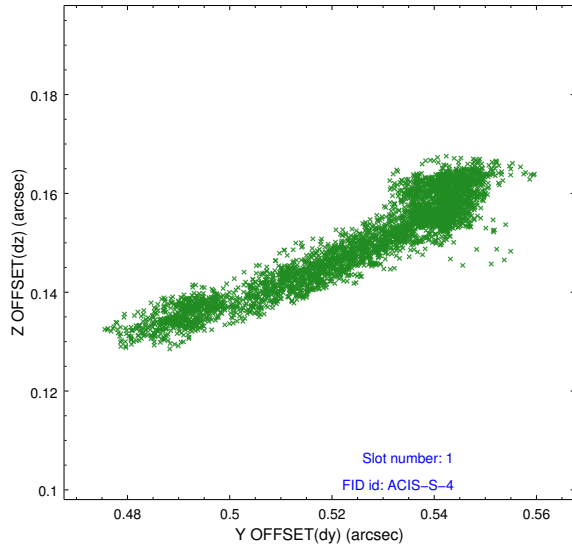


2.5 FID Slots

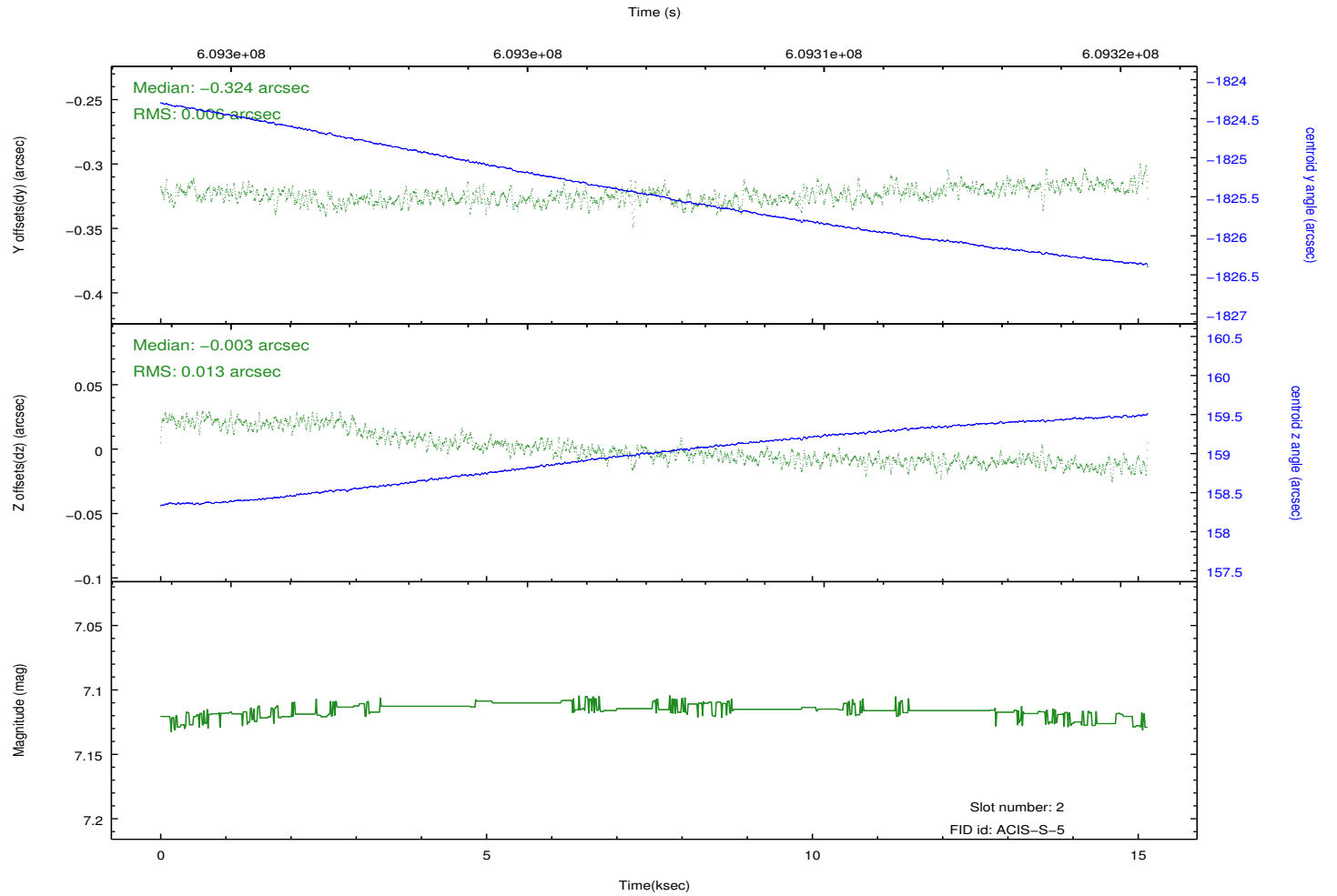
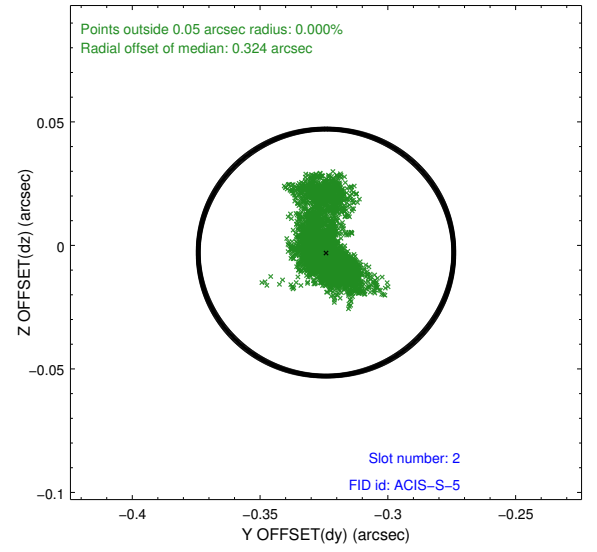
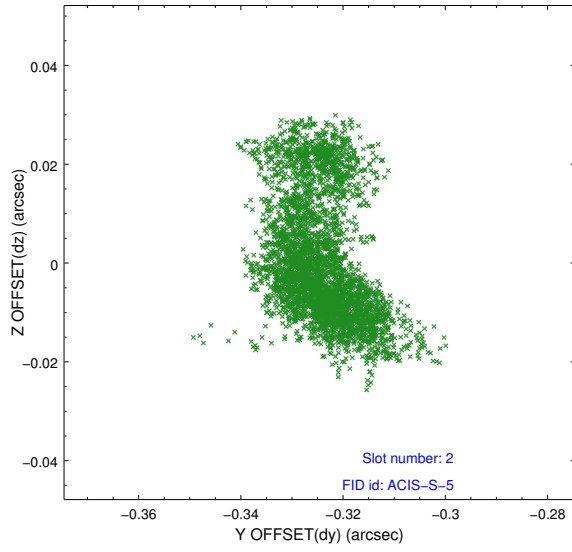
2.5.1 Slot 0



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)	2017.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.055754384398

A.2 Comments

Window preference met.