

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19437 - L2 Version 1
Chandra X-Ray Center

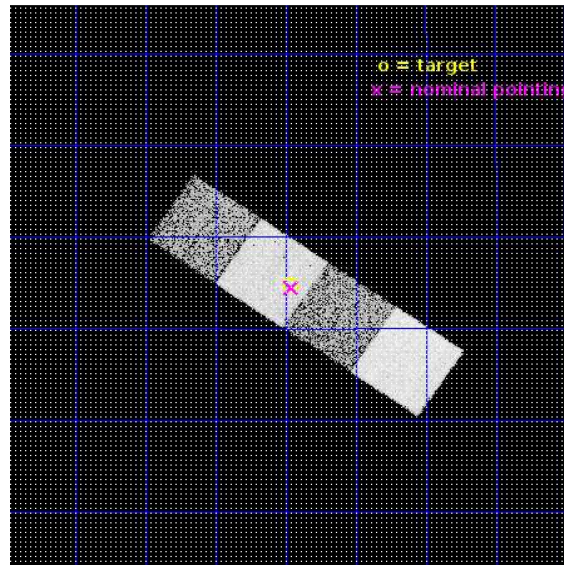
L2 Processing Date : Apr 22 2017

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1 Front

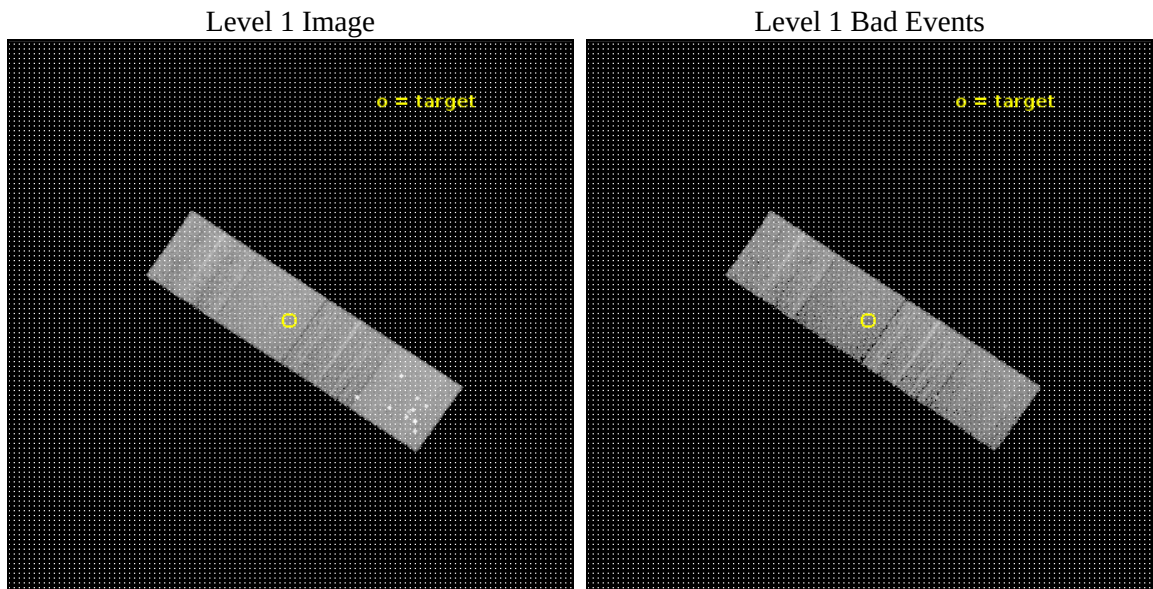
seq_num	601394	Sequence number
obs_id	19437	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4606	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.239583	Observer's specified target RA [deg]
dec_targ	11.912222	Observer's specified target Dec [deg]
ra_nom	190.23956122777	Nominal RA [deg]
dec_nom	11.907722348366	Nominal Dec [deg]
roll_nom	214.15666150119	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7793.4000600576	Sum of GTIs [s]
livetime	7691.5735508553	Livetime [s]
ontime5	7793.4000600576	Sum of GTIs [s]
ontime6	7793.4000600576	Sum of GTIs [s]
ontime7	7793.4000600576	Sum of GTIs [s]
ontime8	7780.8041255474	Sum of GTIs [s]
l2events	79378	Number of level 2 events



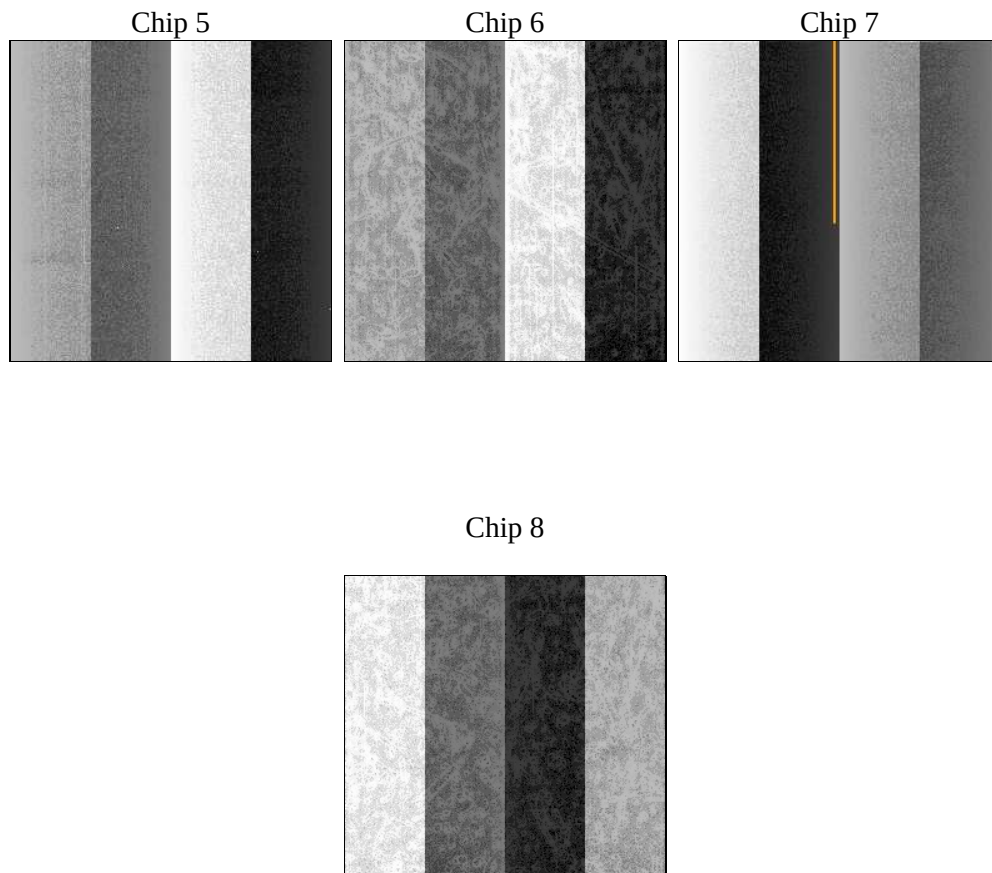
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	7793.4000600576	Sum of GTIs [s]
caldbver	4.7.3	 	ontime5	7793.4000600576	Sum of GTIs [s]
date	2017-04-22T15:41:21	Date and time of file creation	ontime6	7793.4000600576	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	7793.4000600576	Sum of GTIs [s]
			ontime8	7780.8041255474	Sum of GTIs [s]
			l1events	307816	Number of level 1 events

2.1.4 Events

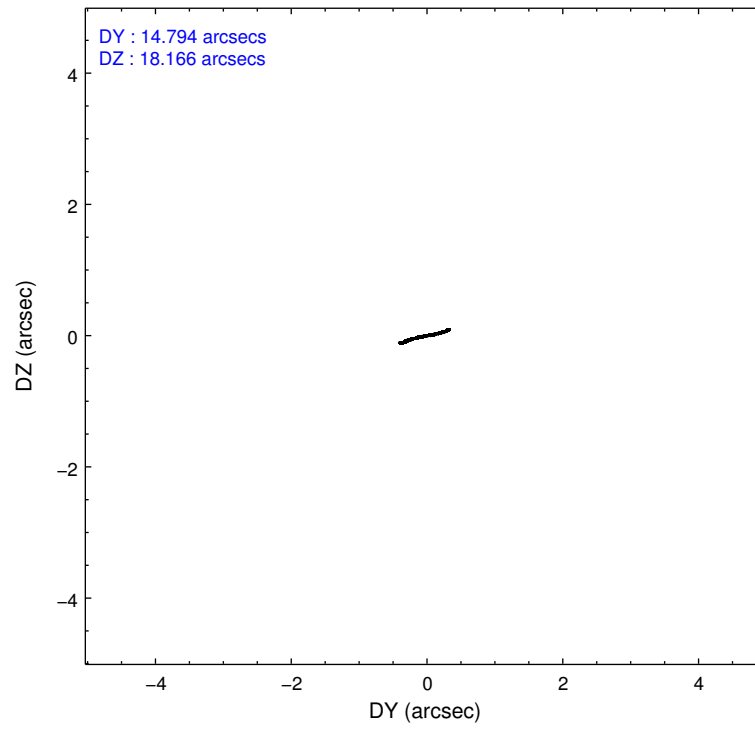
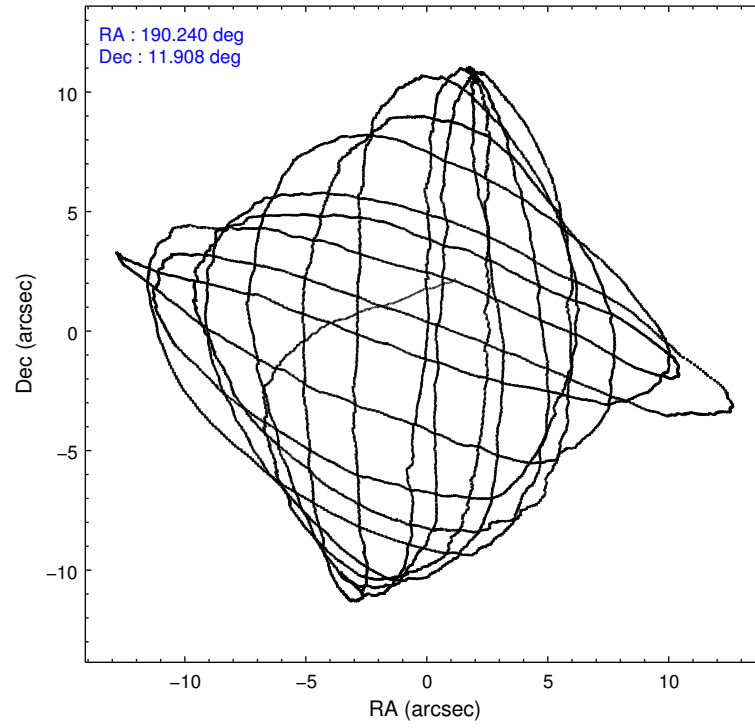
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	106514	57283	69702	74317
rejected events	45407	51178	39757	56283
rejected %	42%	89%	57%	75%

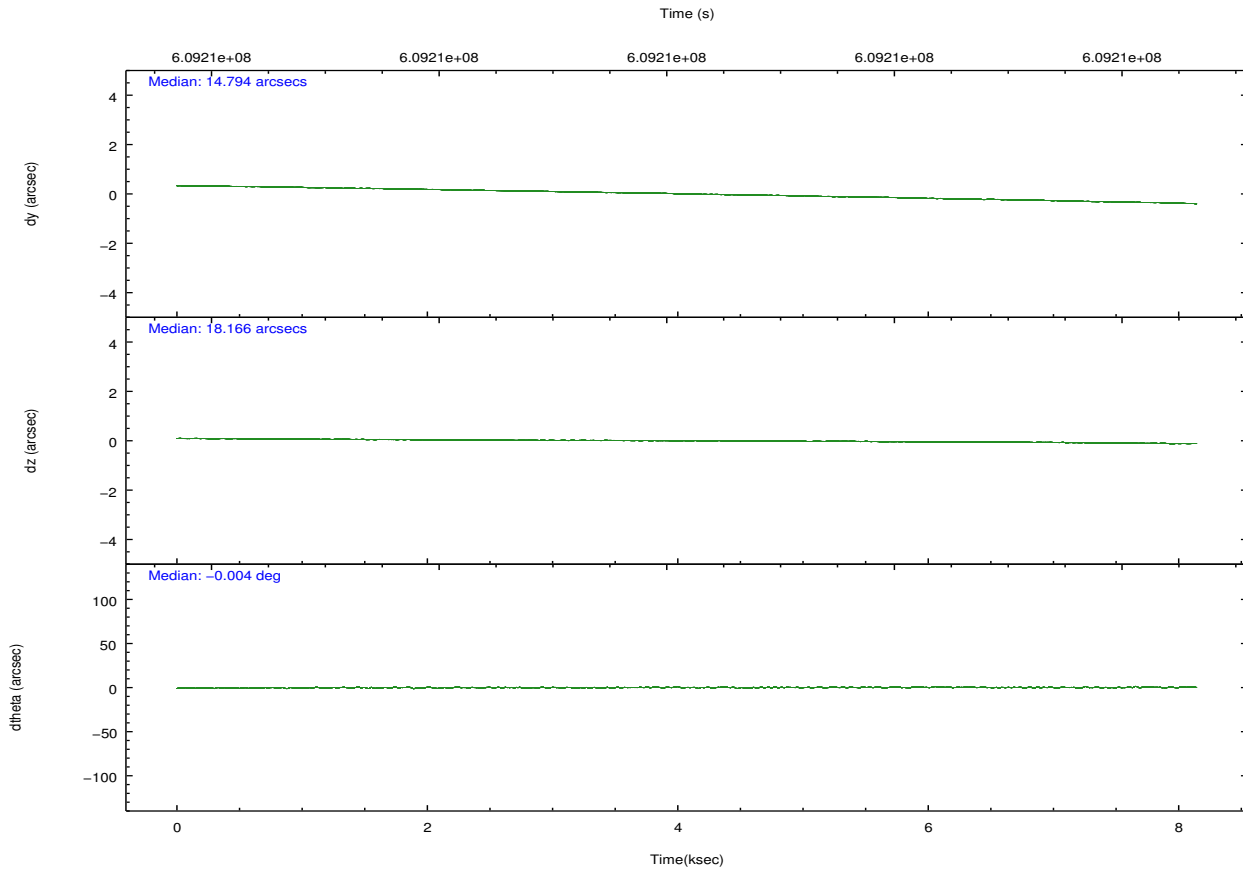
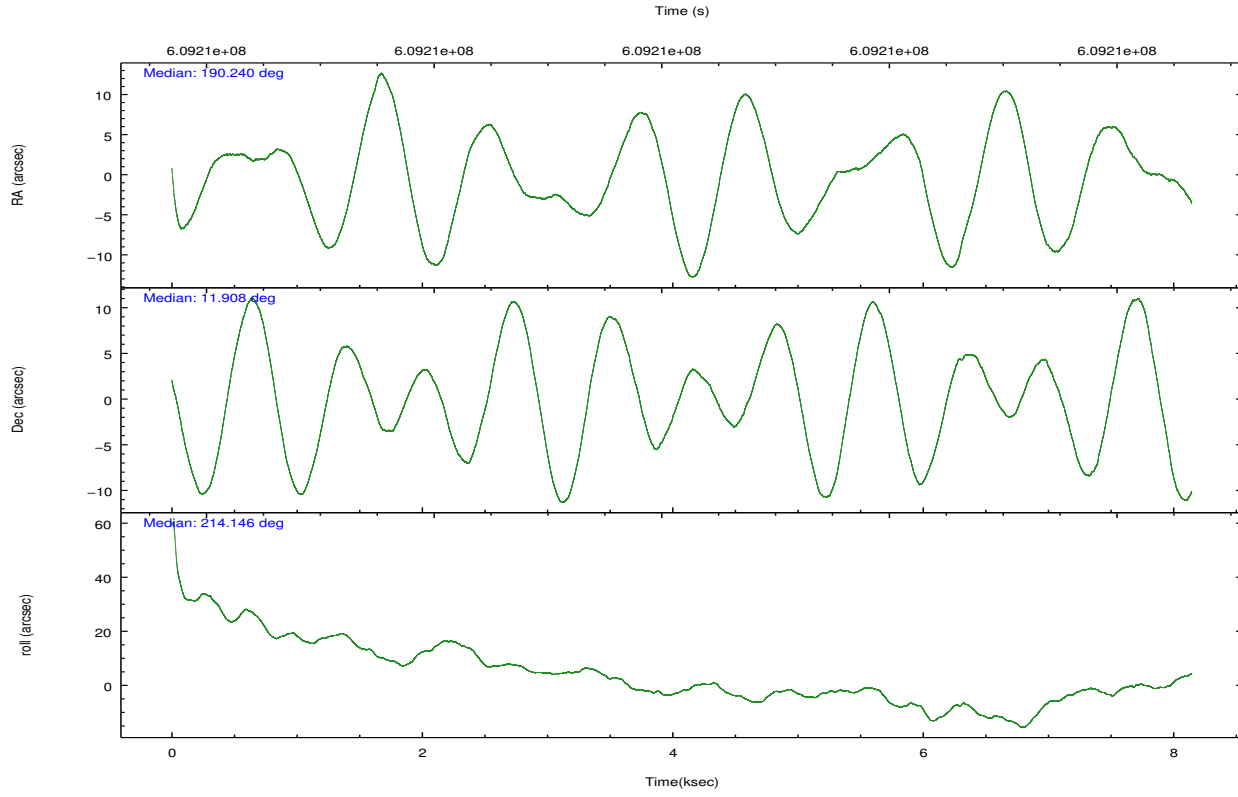
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	17102	1917	2378	5053
	16%	3%	3%	6%
grade 1 events	487	25	78	51
	0%	0%	0%	0%
grade 2 events	15994	1537	6304	4322
	15%	2%	9%	5%
grade 3 events	1831	501	2265	1978
	1%	0%	3%	2%
grade 4 events	2774	566	2139	1735
	2%	0%	3%	2%
grade 5 events	5771	2339	6513	3671
	5%	4%	9%	4%
grade 6 events	23458	1587	16869	4948
	22%	2%	24%	6%
grade 7 events	39097	48811	33156	52559
	36%	85%	47%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	190.251445	190.2395612277702	Subarray requested	NONE	NONE
[deg] Pointing Dec	11.932638	11.90772234836576	Alternating exposures requested	N	N
[deg] Pointing Roll	213.997555	214.1566615011885	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	609206266.184000	609204934.29432			
Observation start date	2017-04-21T23:56:37	2017-04-21T23:35:34			
[s] Observation end time (MET)	609214266.184000	609215338.55742			
Observation end date	2017-04-22T02:09:57	2017-04-22T02:28:58			
Read mode	TIMED	TIMED			

2.3 Aspect



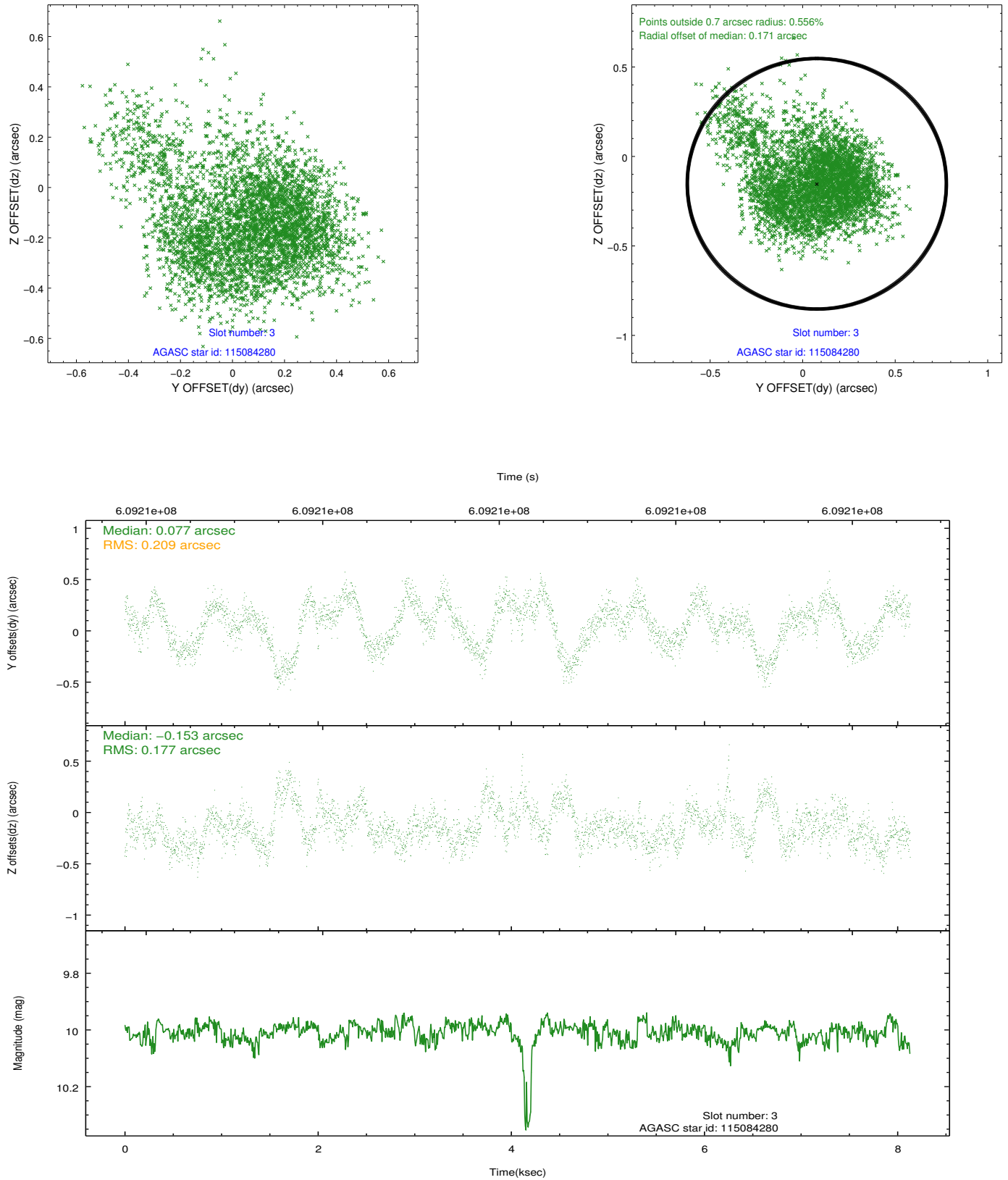


Slot Statistics

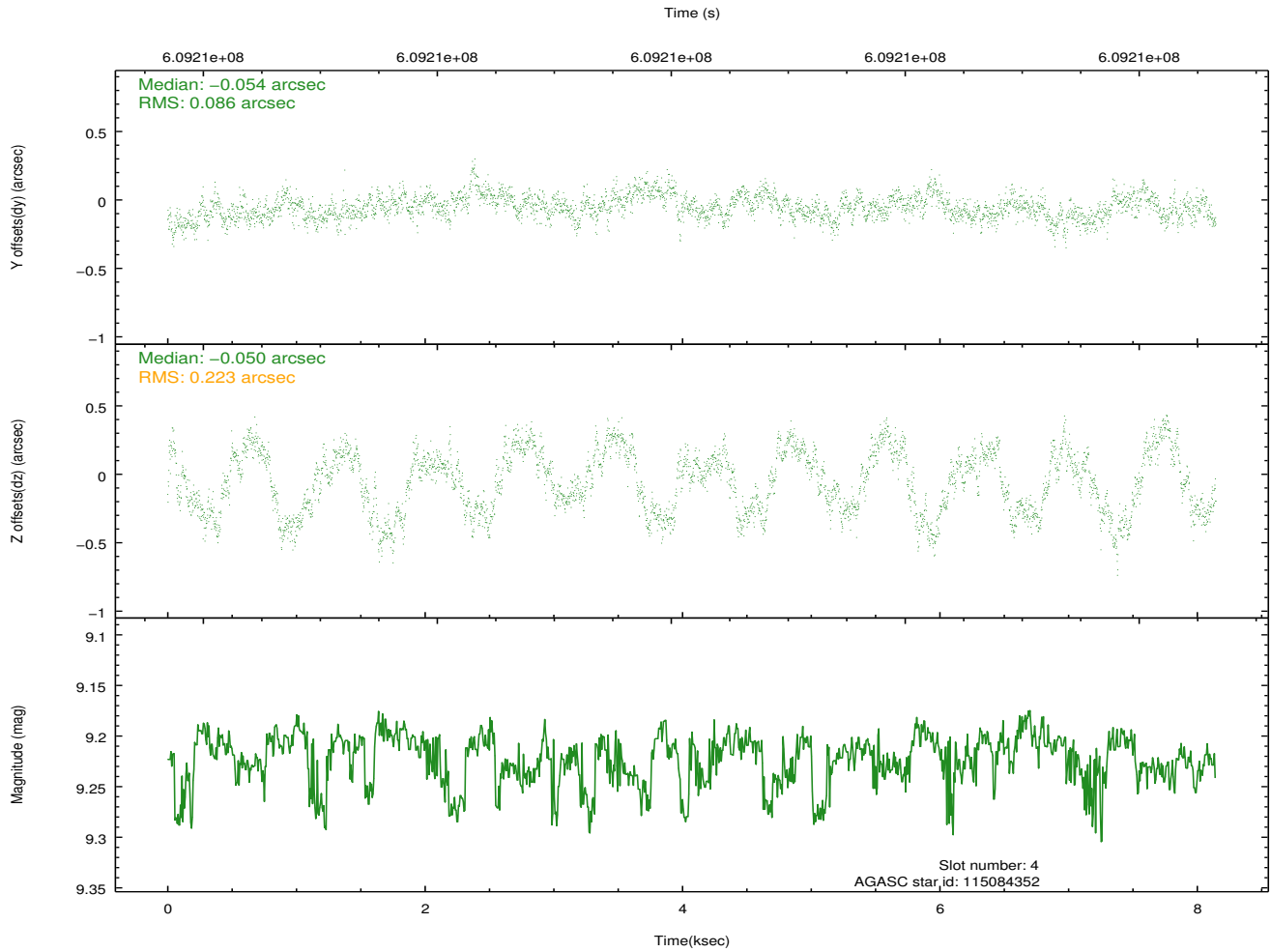
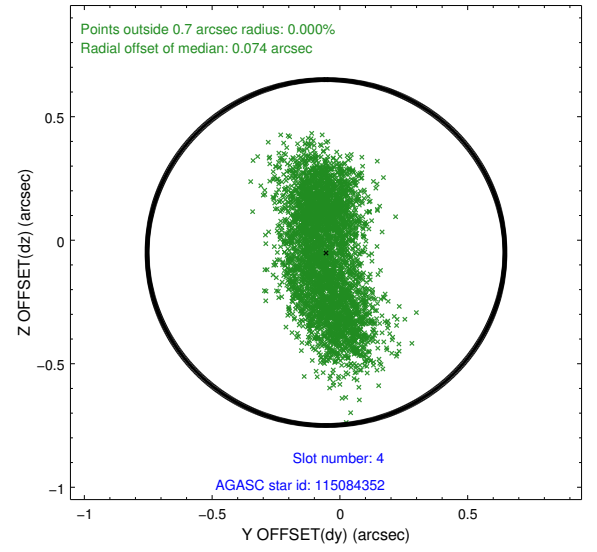
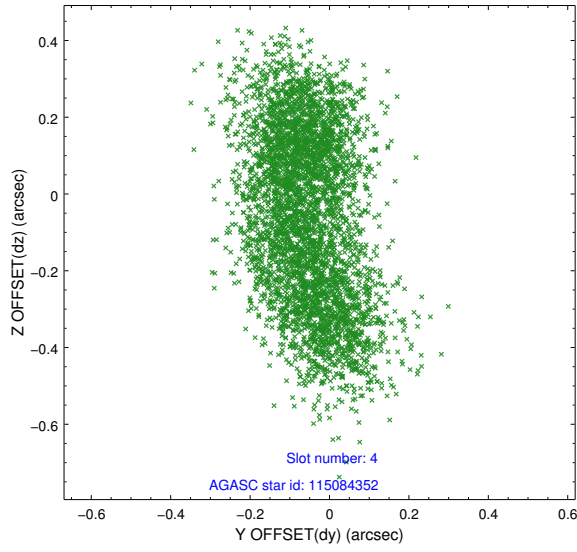
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	1987	-0.199	-0.145	0.010	0.017	0.000000	0.000000	-767.95	-1739.77
1	FID		ACIS-S-4	7.25	1987	0.500	0.134	0.007	0.012	0.000000	0.000000	2145.71	168.27
2	FID		ACIS-S-5	7.23	1987	-0.333	0.019	0.009	0.014	0.000000	0.000000	-1820.05	162.62
3	GUIDE	used	115084280	10.01	3957	0.077	-0.153	0.279	0.499	190.781448	11.930338	-1543.13	1049.57
4	GUIDE	used	115084352	9.22	3973	-0.054	-0.050	0.262	0.406	190.760225	11.783180	-1185.14	1449.13
5	GUIDE	used	115085728	9.94	3965	0.044	0.136	0.279	0.446	190.191864	12.341254	-648.40	-1335.46
6	GUIDE	used	115089400	9.81	3966	0.127	-0.113	0.204	0.318	190.425194	11.760272	-161.60	858.45
7	GUIDE	used	115089520	9.56	3897	-0.155	0.173	0.235	0.389	189.892491	12.217562	473.65	-1556.85

2.4 Star Slots

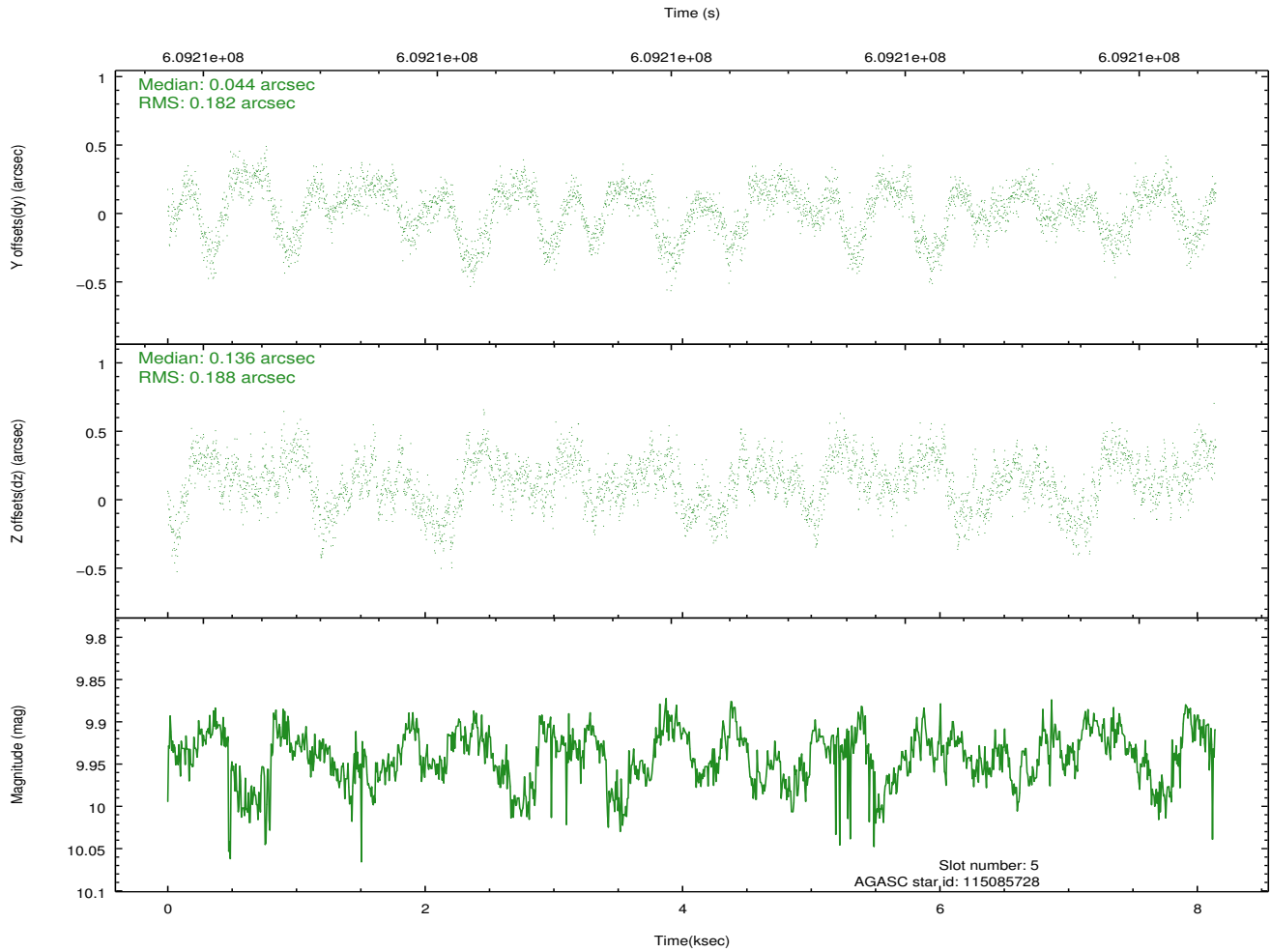
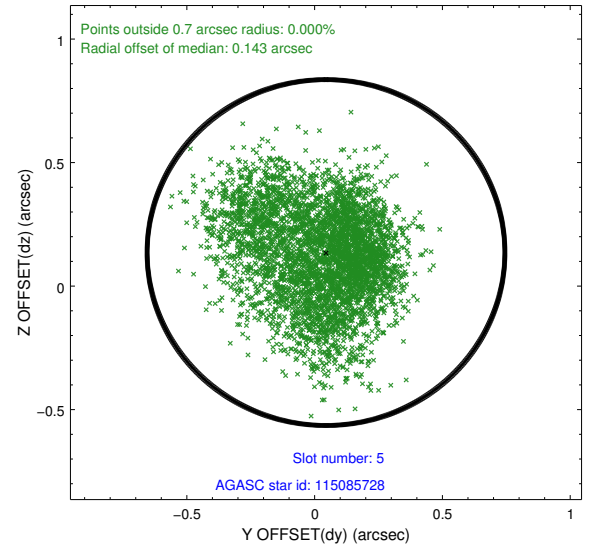
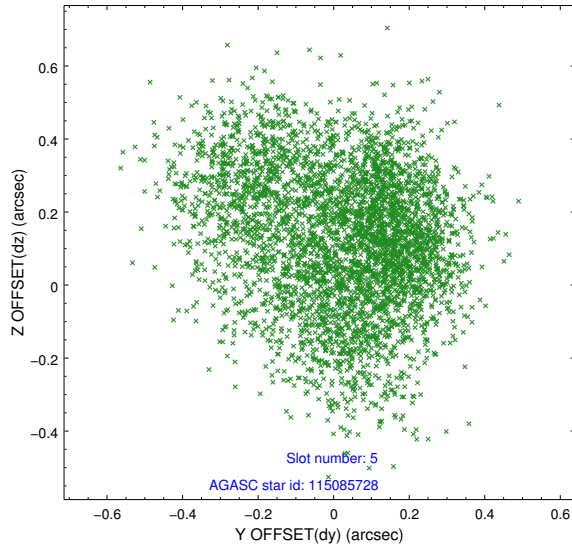
2.4.1 Slot 3



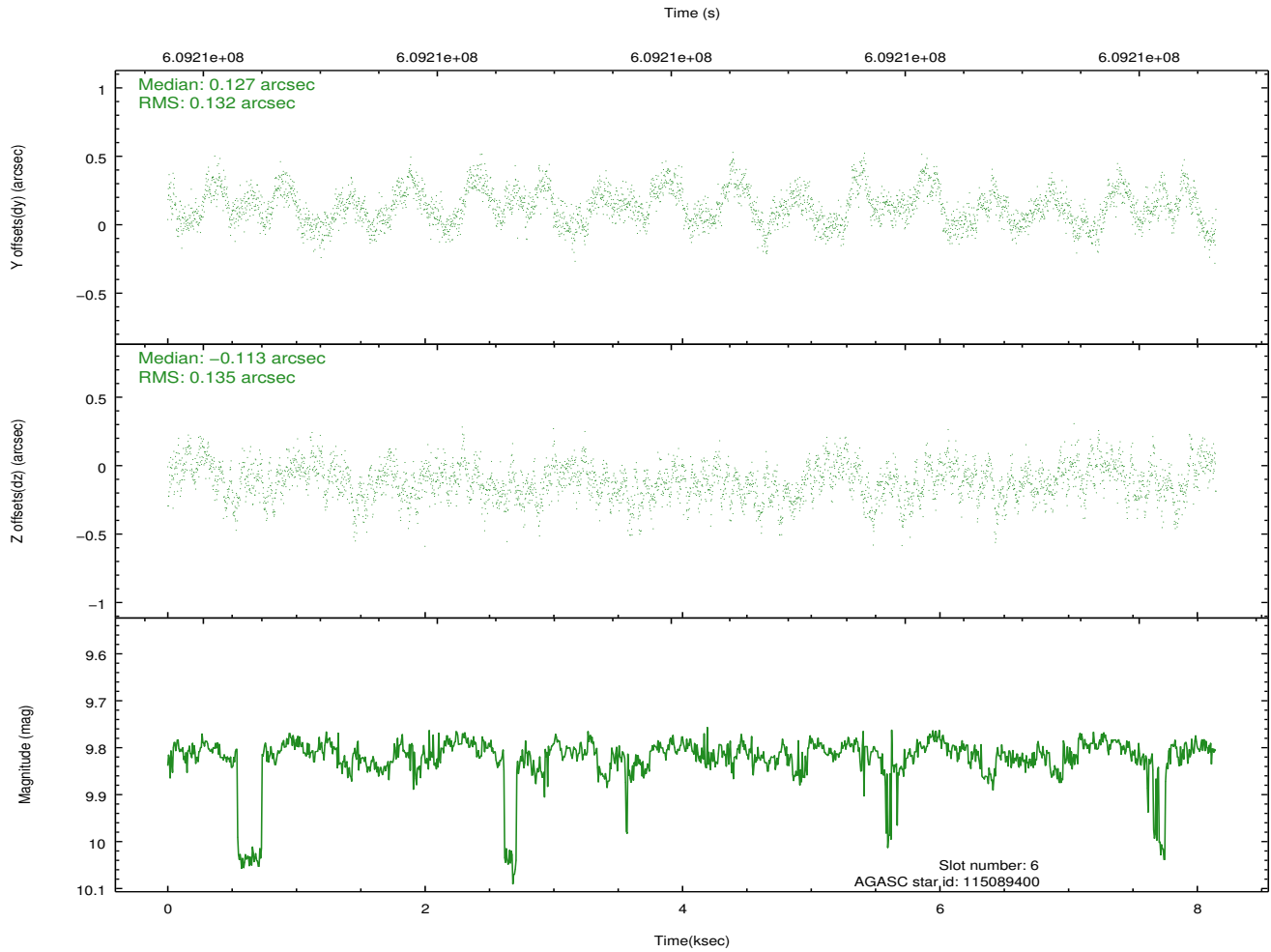
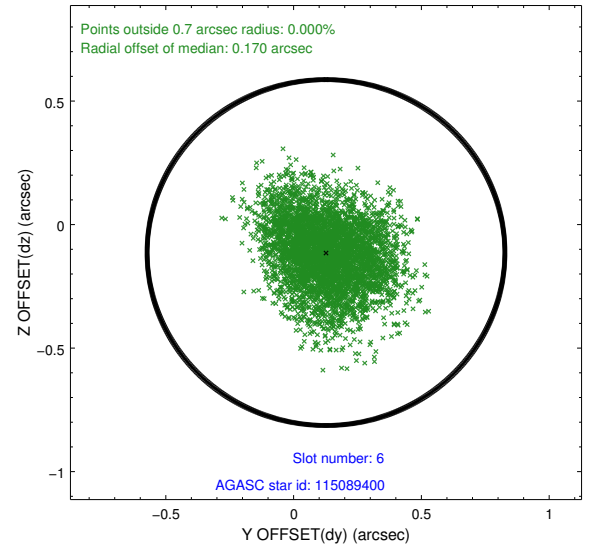
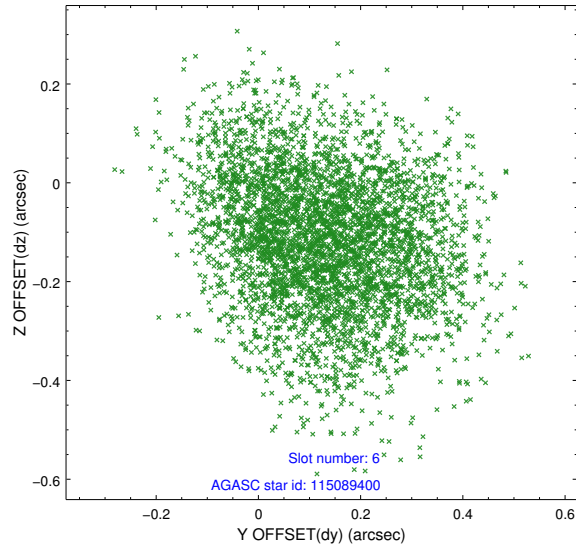
2.4.2 Slot 4



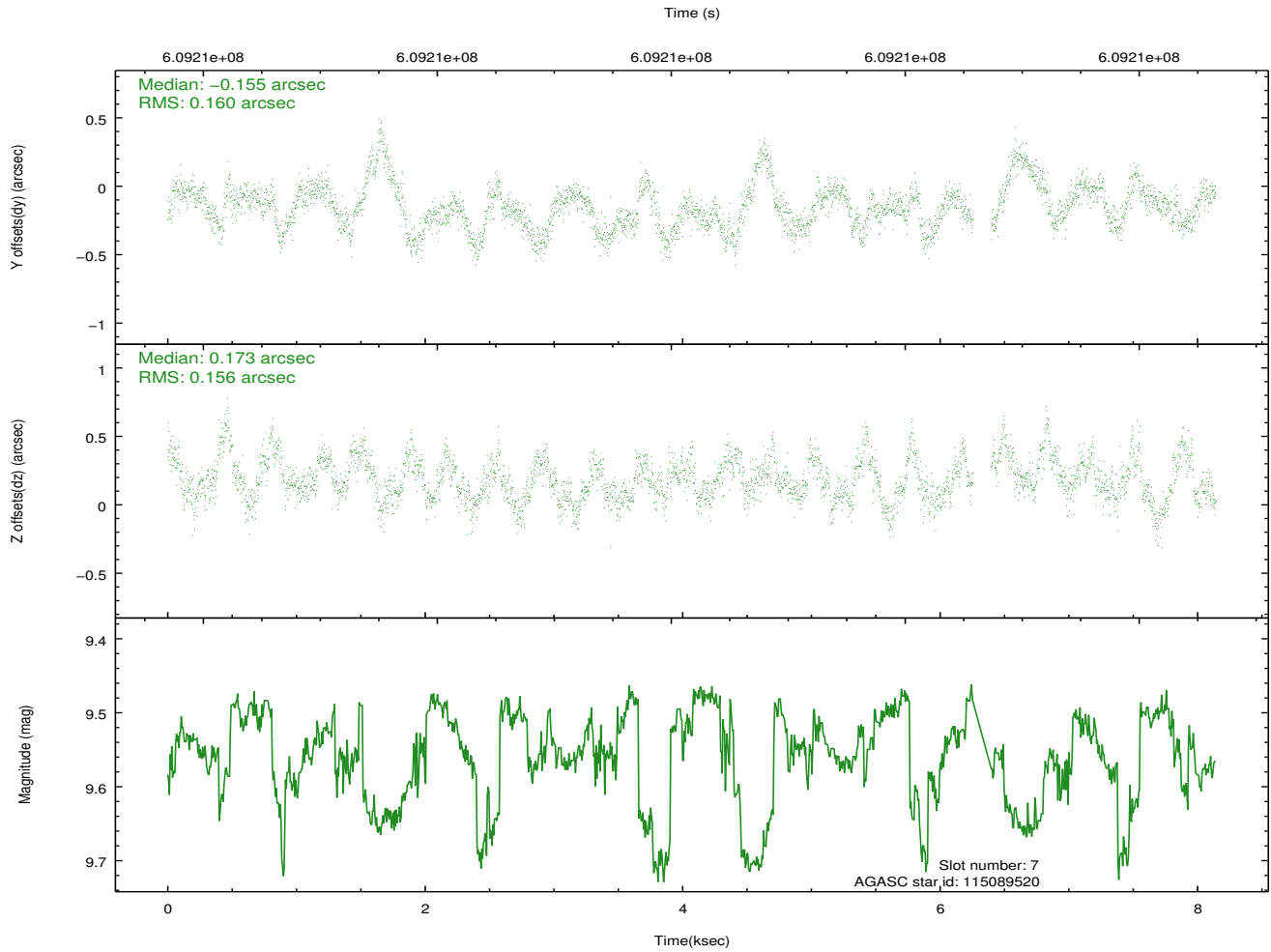
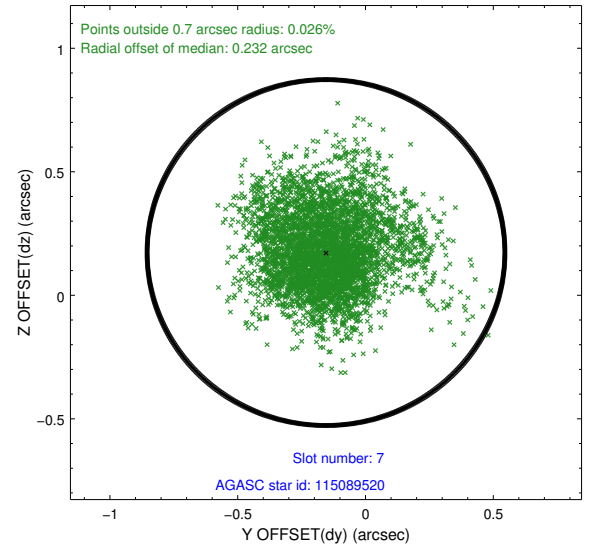
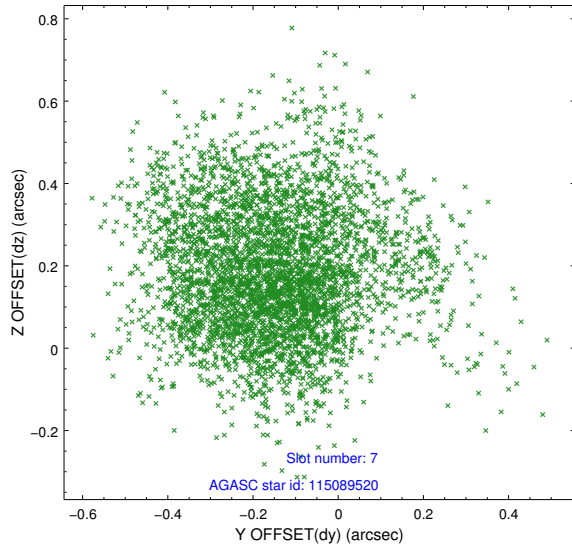
2.4.3 Slot 5



2.4.4 Slot 6

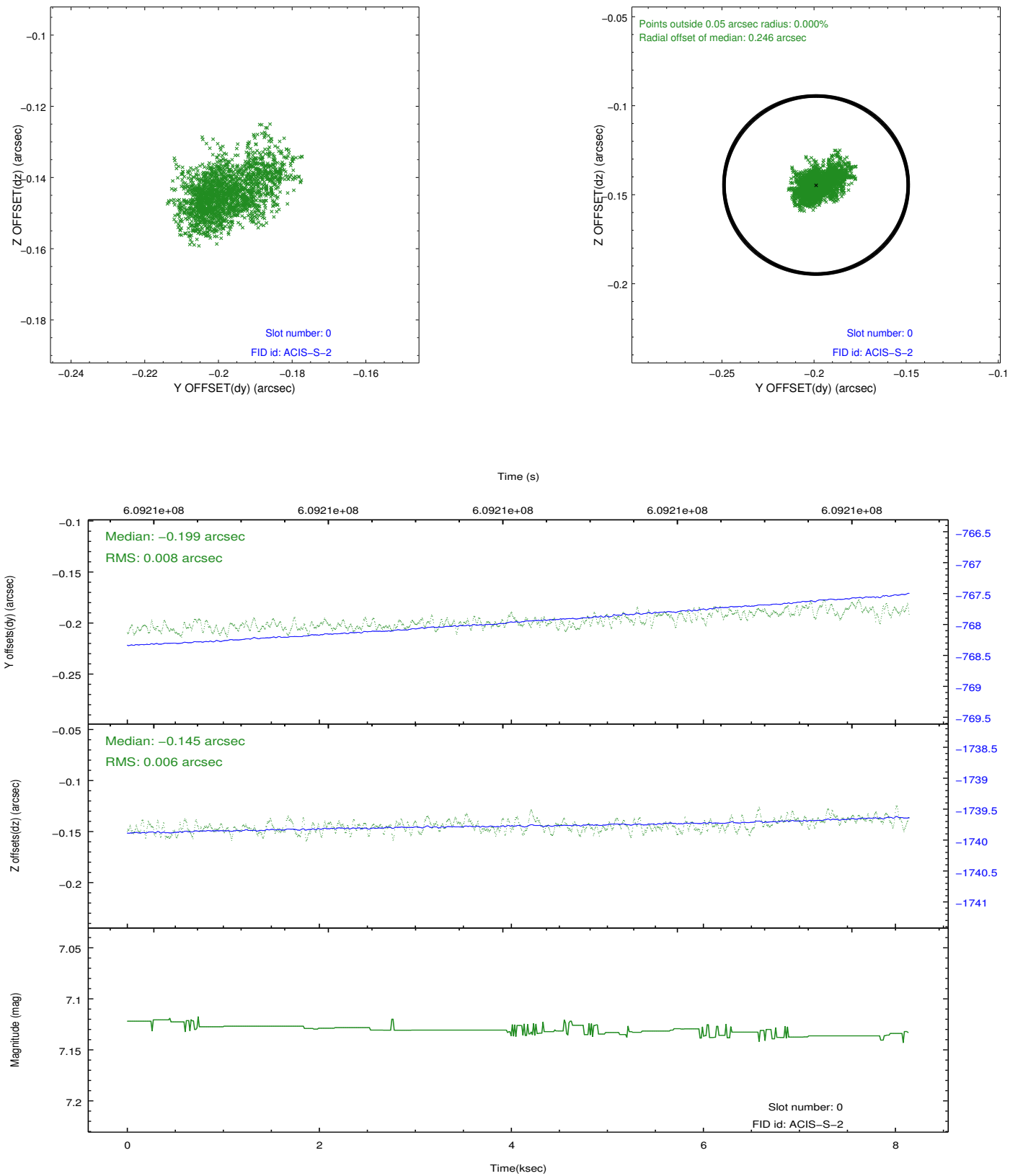


2.4.5 Slot 7

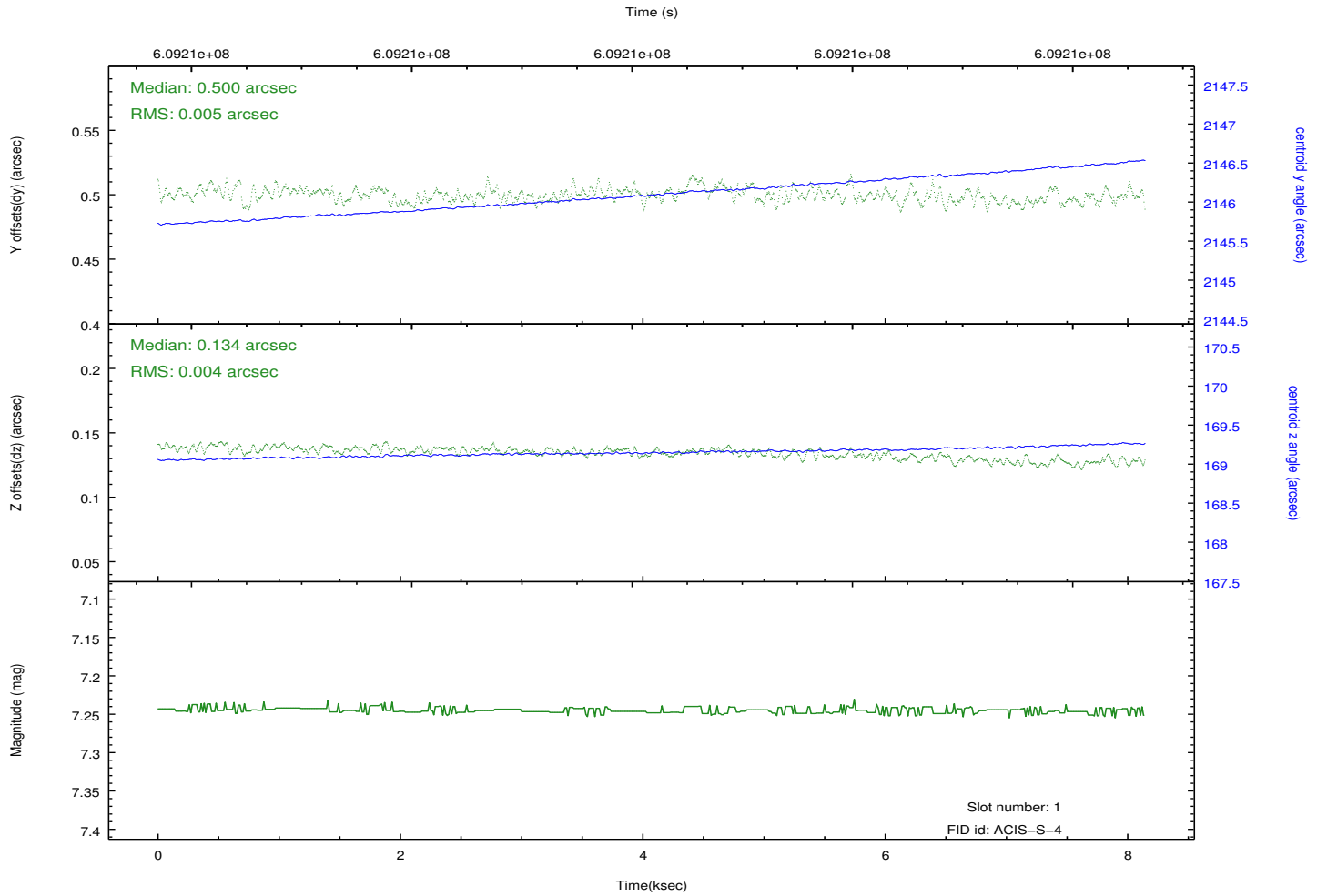
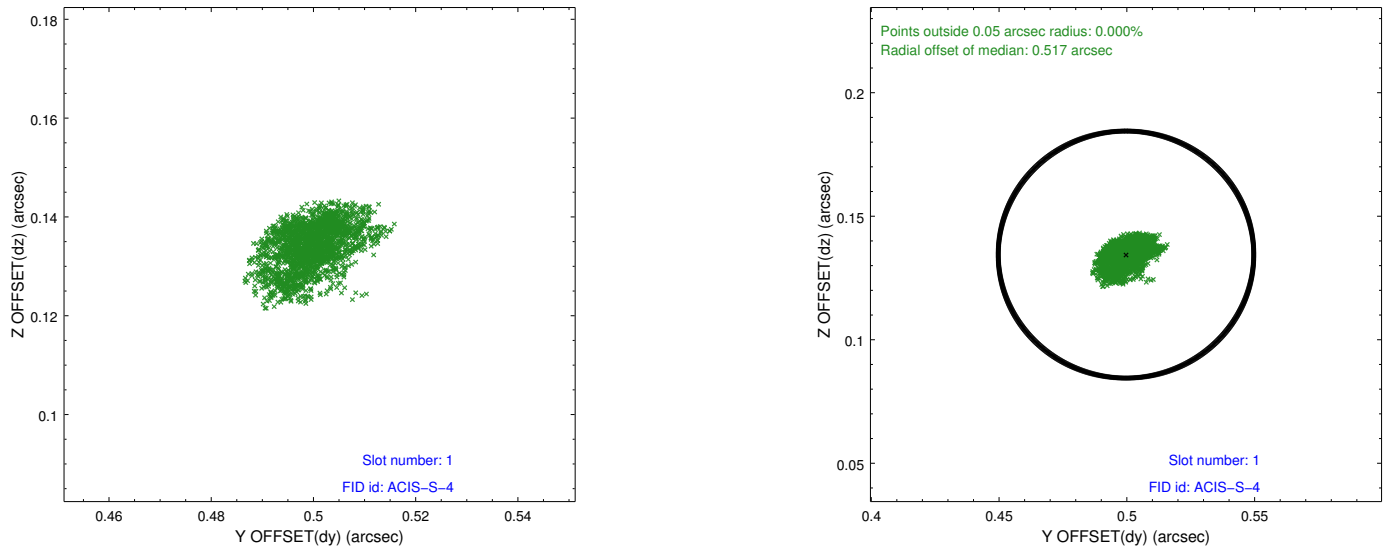


2.5 FID Slots

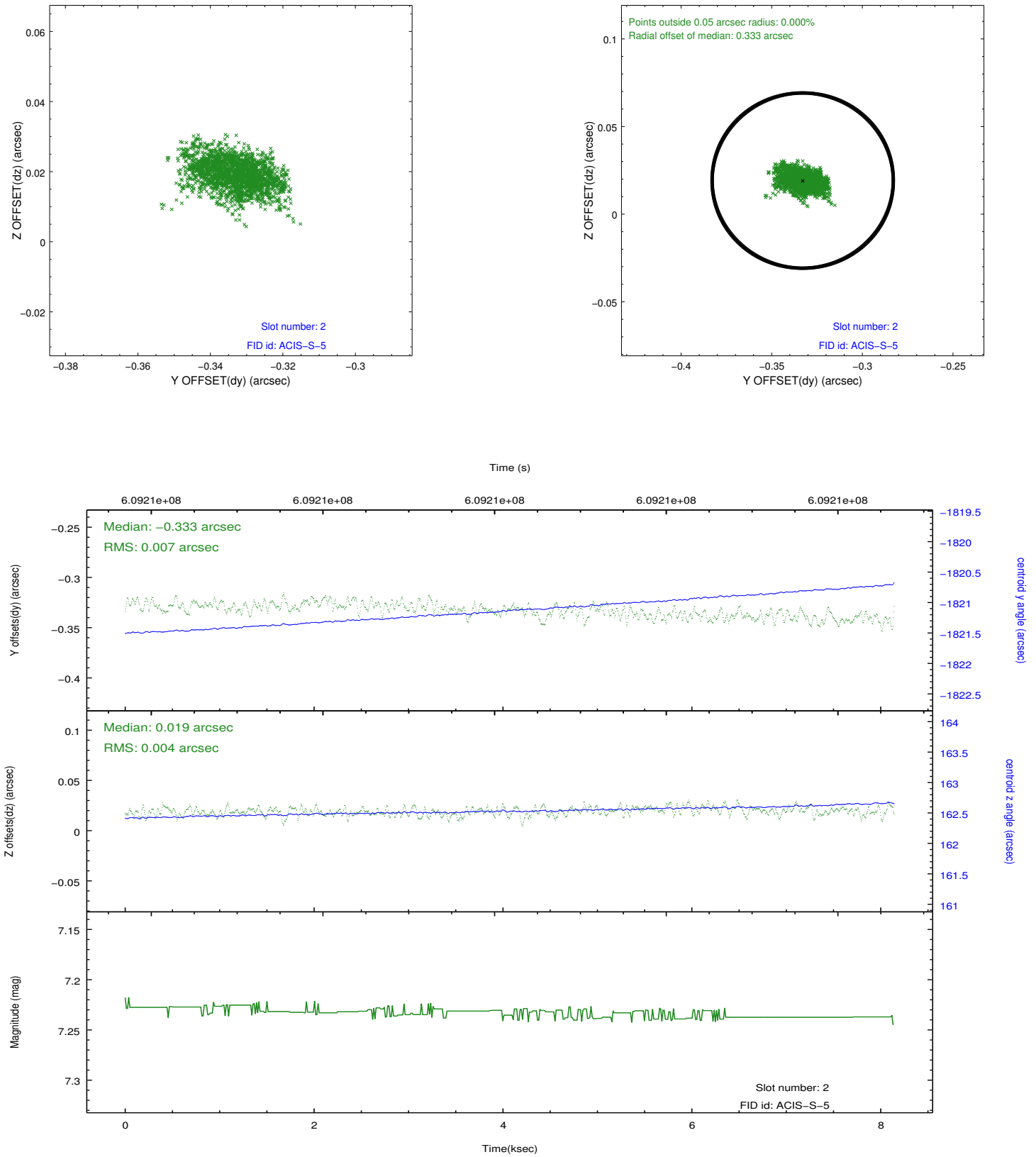
2.5.1 Slot 0



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	7.7934000600576

A.2 Comments