

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21892 - L2 Version 1
Chandra X-Ray Center

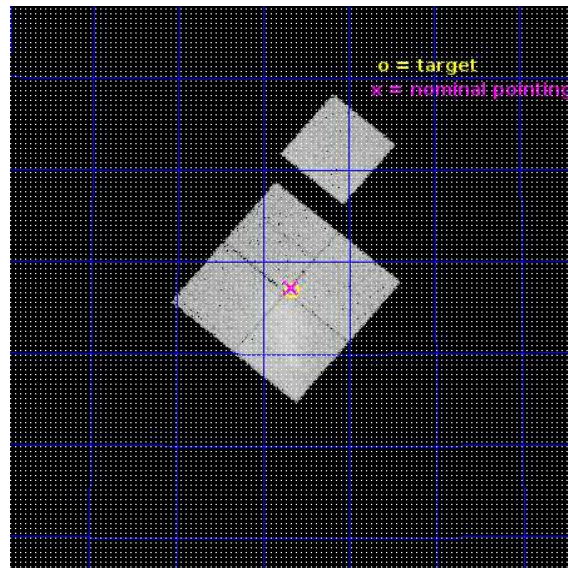
L2 Processing Date : Apr 4 2019

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1 Front

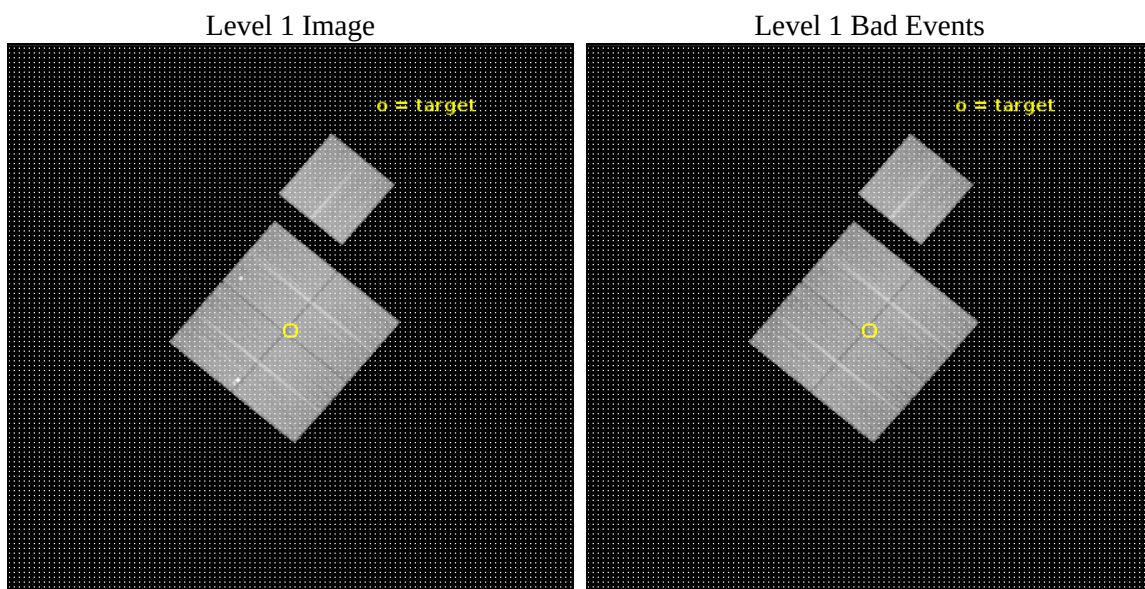
seq_num	801784	Sequence number
obs_id	21892	Observation id
title	A POSSIBLE FIRST DETECTION OF INVERSE COMPTON EMISSION FROM A GALAXY CLUSTER	Proposal title
observer	Maxim Markevitch	Principal investigator
object	CIZA J2242.8+5301	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	340.665	Observer's specified target RA [deg]
dec_targ	53.115	Observer's specified target Dec [deg]
ra_nom	340.66844229684	Nominal RA [deg]
dec_nom	53.12041960784	Nominal Dec [deg]
roll_nom	40.005944383079	Nominal Roll [deg]
revision	1	Processing version of data
ontime	32069.33559227	Sum of GTIs [s]
livetime	31650.326113655	Livetime [s]
ontime0	32062.930482149	Sum of GTIs [s]
ontime1	32069.253512263	Sum of GTIs [s]
ontime2	32063.012591839	Sum of GTIs [s]
ontime3	32069.33559227	Sum of GTIs [s]
ontime6	32066.030432105	Sum of GTIs [s]
l2events	132173	Number of level 2 events



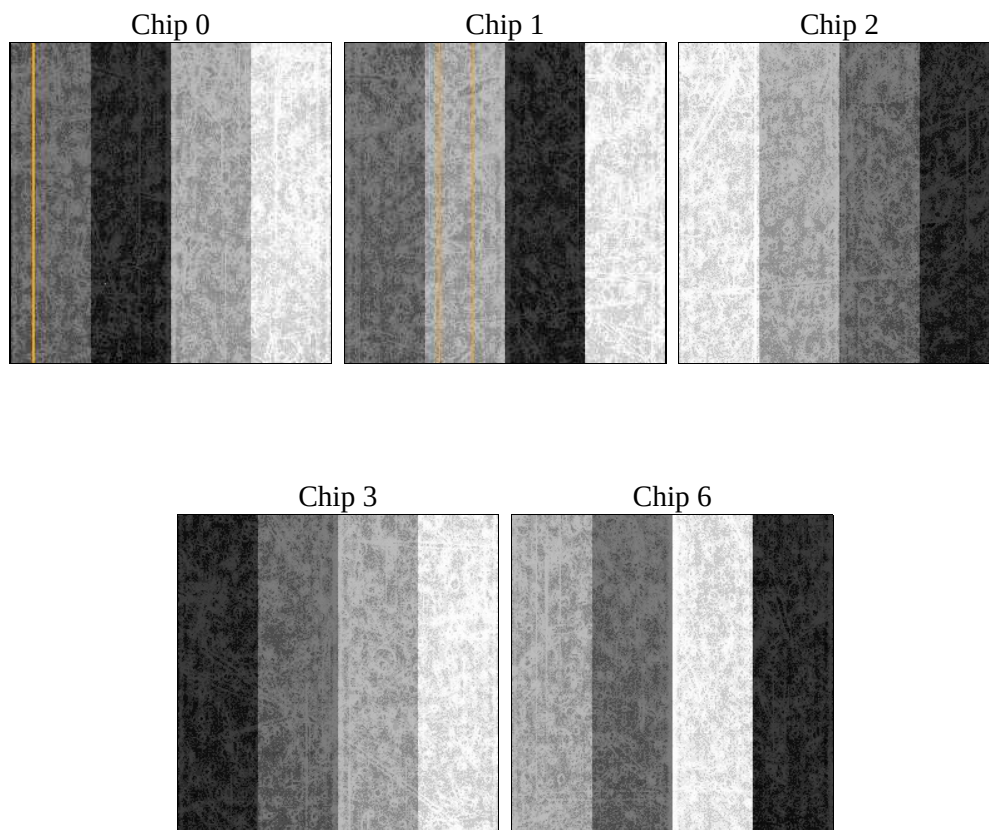
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	32069.33559227	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	32062.930482149	Sum of GTIs [s]
date	2019-04-04T11:39:55	Date and time of file creation	ontime1	32069.253512263	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	32063.012591839	Sum of GTIs [s]
			ontime3	32069.33559227	Sum of GTIs [s]
			ontime6	32066.030432105	Sum of GTIs [s]
			l1events	1245640	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	239372	247672	257659	245396	255541
rejected events	199060	203878	226734	218371	227929
rejected %	83%	82%	87%	88%	89%

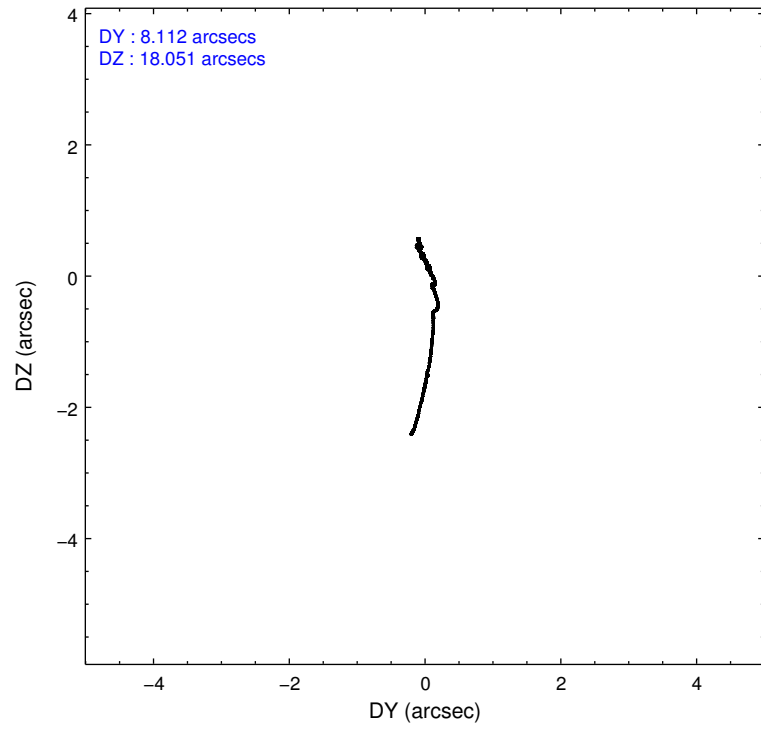
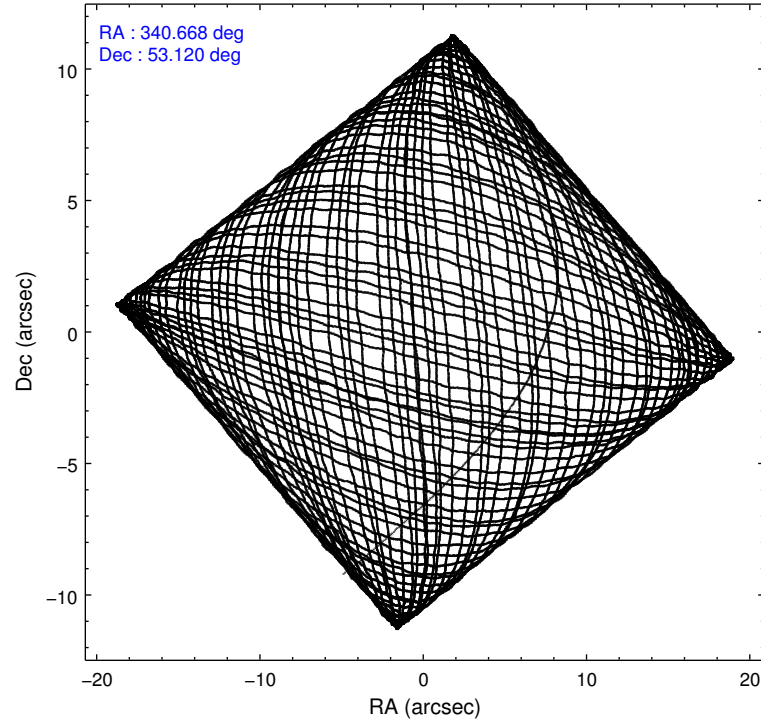
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	21670	20002	13822	10341	8820
	9%	8%	5%	4%	3%
grade 1 events	277	149	192	159	117
	0%	0%	0%	0%	0%
grade 2 events	7475	10108	6561	5818	6781
	3%	4%	2%	2%	2%
grade 3 events	2747	3179	2643	2649	2657
	1%	1%	1%	1%	1%
grade 4 events	2588	3149	2679	2598	2595
	1%	1%	1%	1%	1%
grade 5 events	10275	10584	9501	11645	10999
	4%	4%	3%	4%	4%
grade 6 events	5838	7359	5224	5622	6763
	2%	2%	2%	2%	2%
grade 7 events	188502	193142	217037	206564	216809
	78%	77%	84%	84%	84%

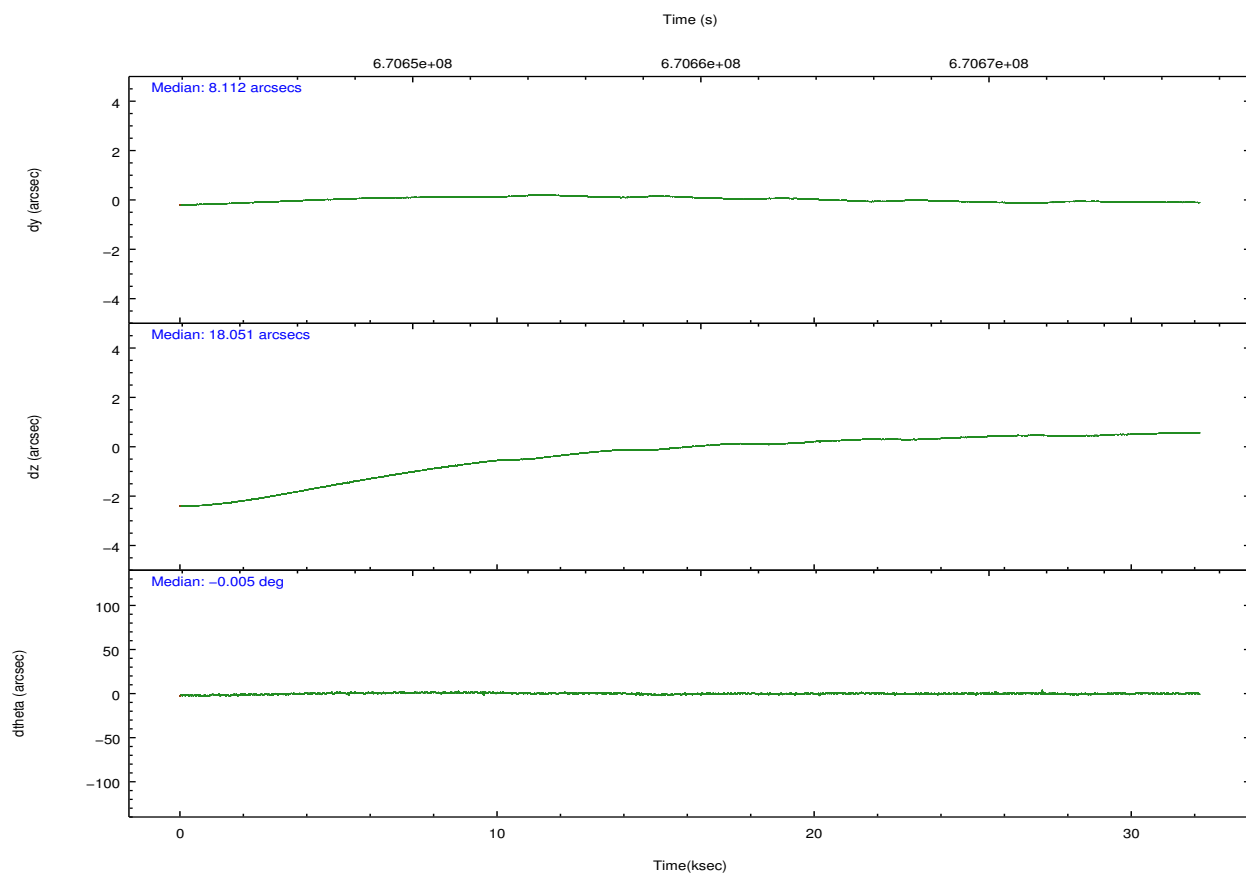
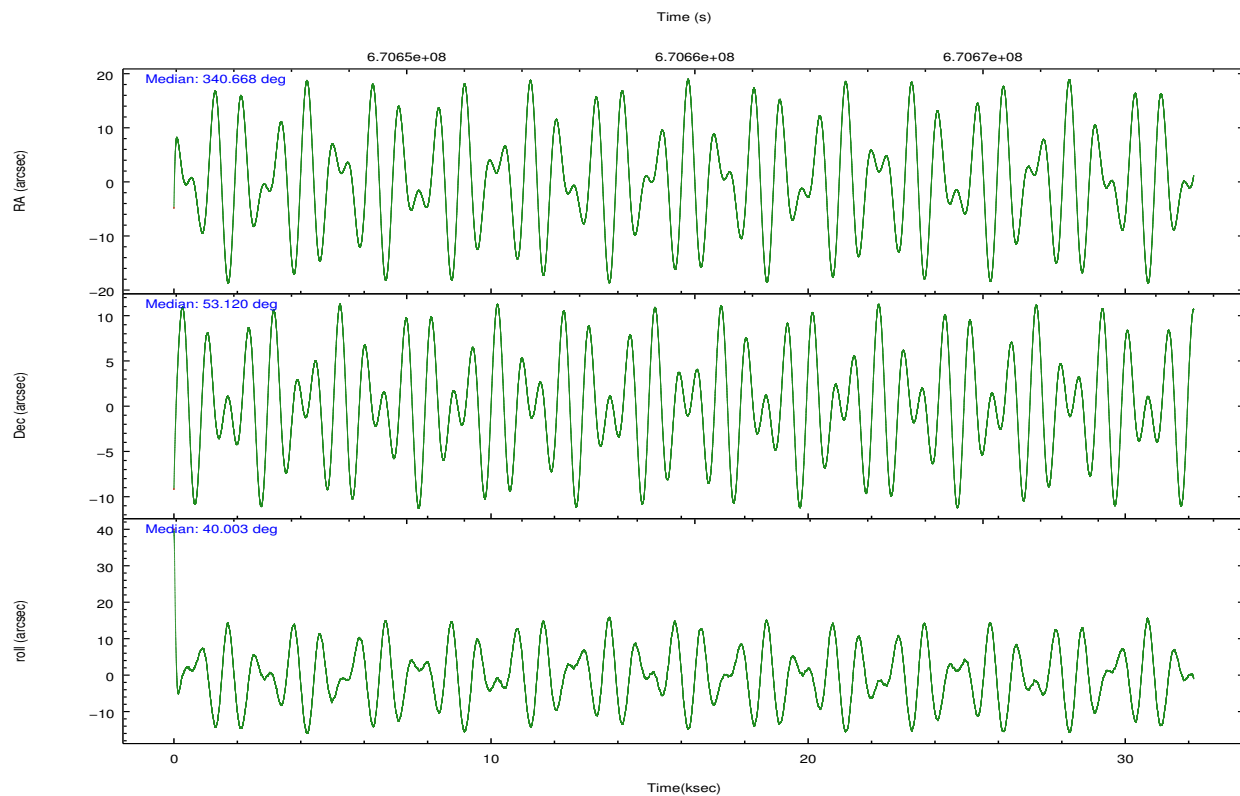
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01236	ACIS-01236
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	340.652881	340.668442296841
[deg] Pointing Dec	53.094443	53.12041960783991
[deg] Pointing Roll	39.809695	40.00594438307878
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	670643694.184000	670642503.7124799
Observation start date	2019-04-03T01:53:45	2019-04-03T01:35:03
[s] Observation end time (MET)	670675694.184000	670676646.97702
Observation end date	2019-04-03T10:47:05	2019-04-03T11:04:06
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	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	N	N
CCD S4 on	N	N
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



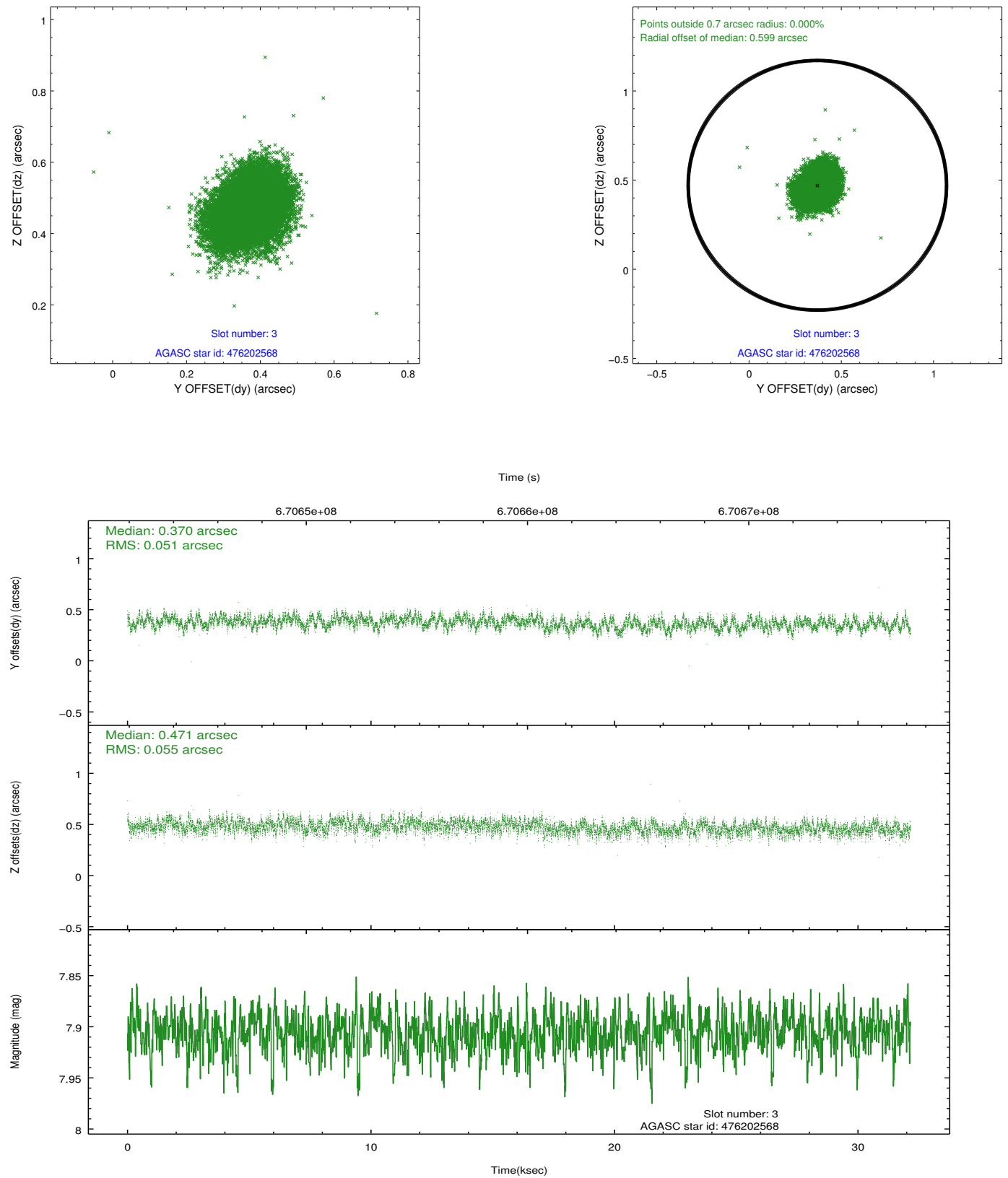


Slot Statistics

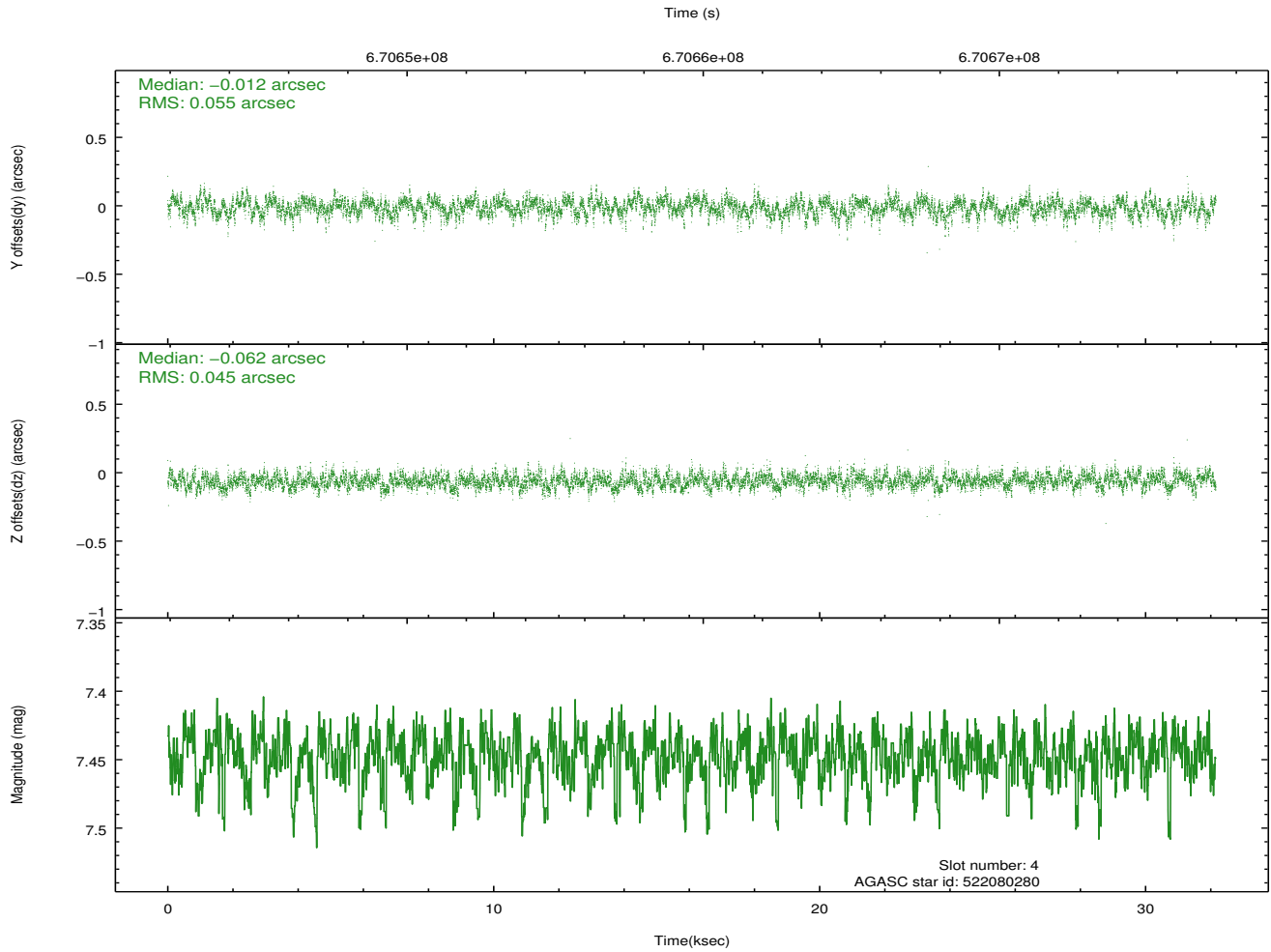
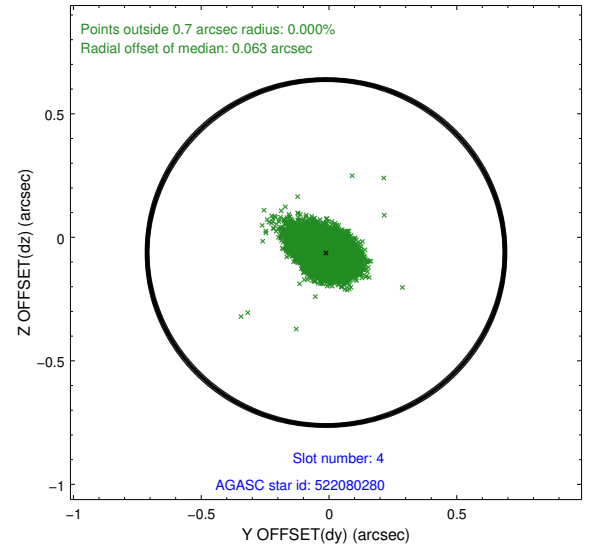
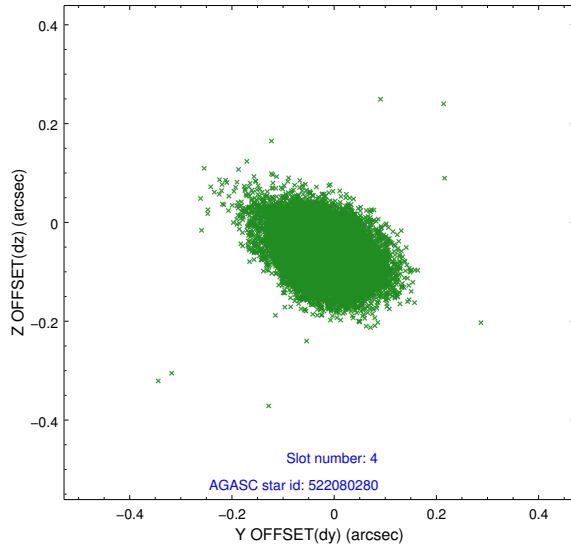
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-3	7.39	7844	1.000	-0.040	0.168	0.045	0.096	0.000000	0.000000	48.95	-974
1	FID		ACIS-I-5	7.17	7843	1.000	-0.356	-0.103	0.013	0.024	0.000000	0.000000	-1817.08	1055
2	FID		ACIS-I-6	7.16	7844	1.000	0.304	0.005	0.036	0.108	0.000000	0.000000	397.22	1700
3	GUIDE	used	476202568	7.90	15683	1.000	0.370	0.471	0.080	0.129	340.606785	52.193627	-2154.11	-2425
4	GUIDE	used	522080280	7.45	15685	1.000	-0.012	-0.062	0.074	0.124	339.665580	52.873813	-2147.12	774
5	GUIDE	used	522191216	6.81	15686	1.000	0.262	0.041	0.082	0.136	341.400345	52.890306	782.45	-1597
6	GUIDE	used	522195816	7.18	15686	1.000	-0.491	-0.451	0.084	0.130	341.124906	53.756426	2299.19	1189
7	GUIDE	used	522202320	6.94	15682	1.000	-0.122	0.005	0.077	0.118	341.199728	53.302639	1386.40	-173

2.4 Star Slots

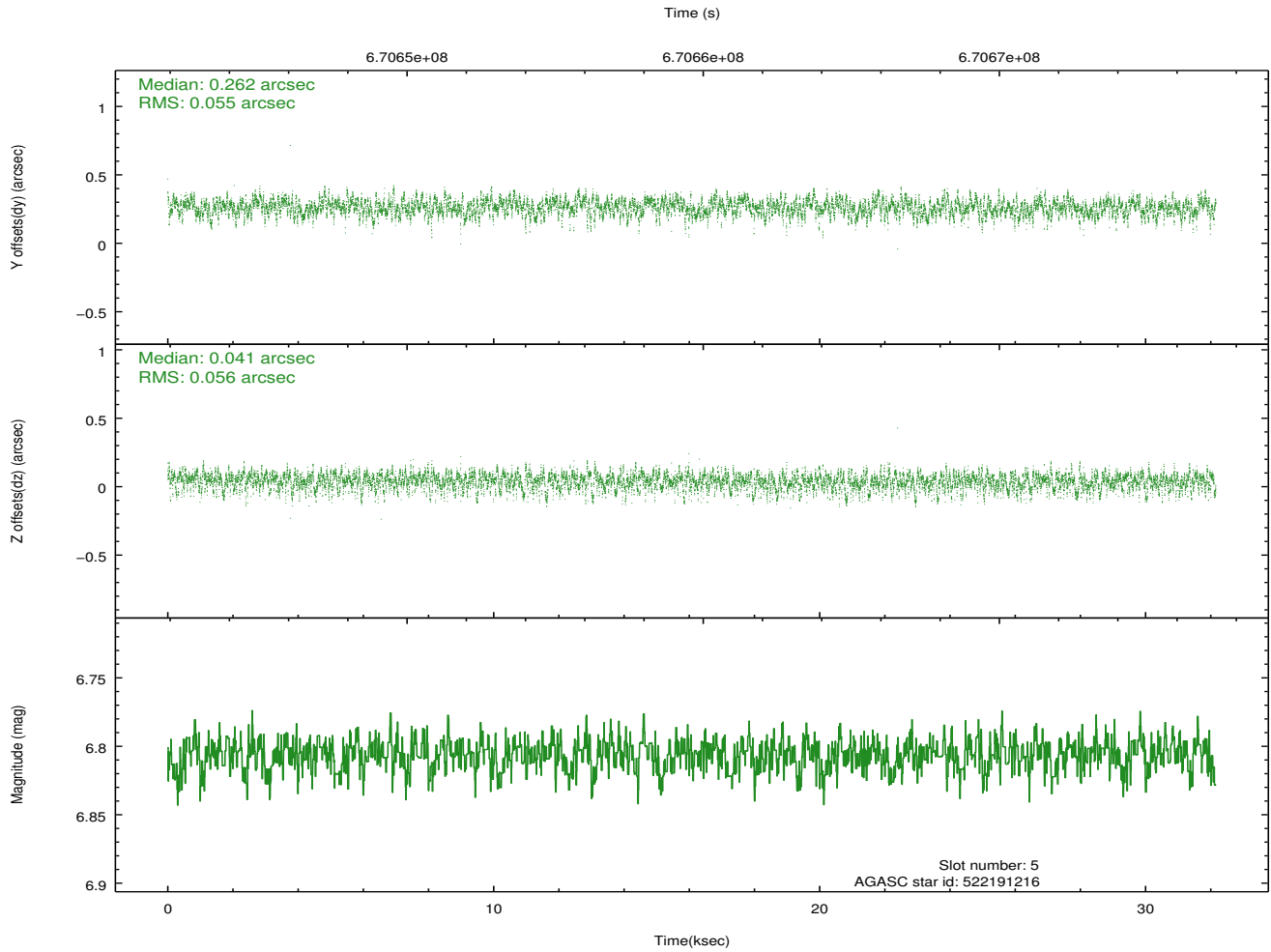
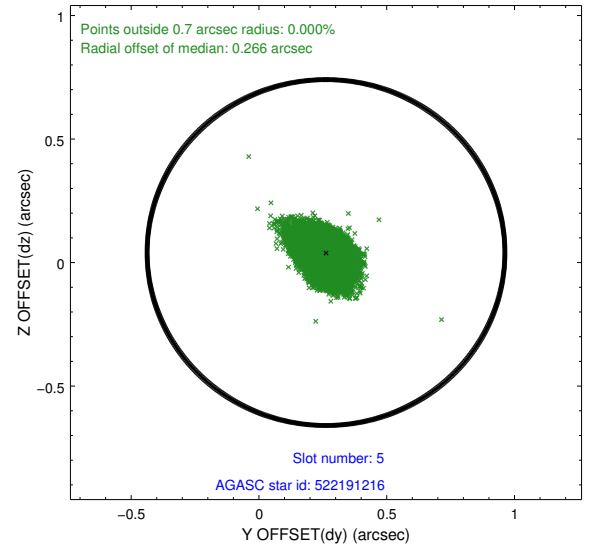
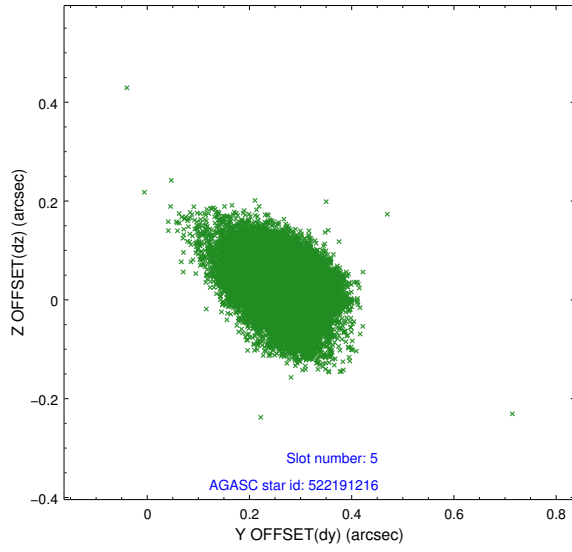
2.4.1 Slot 3



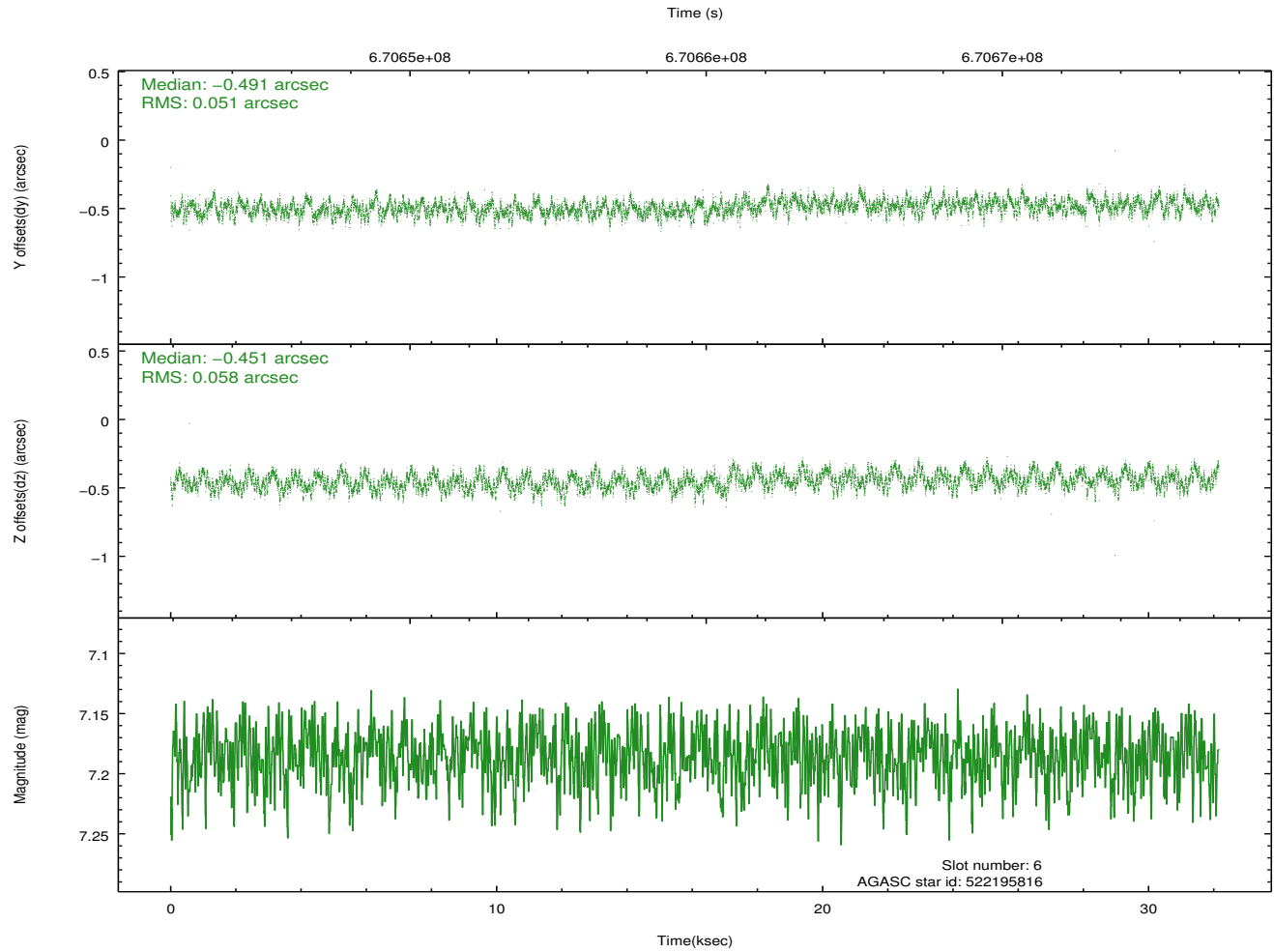
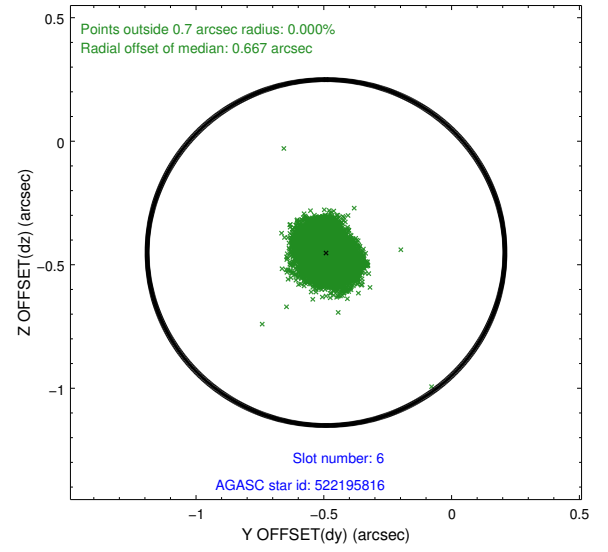
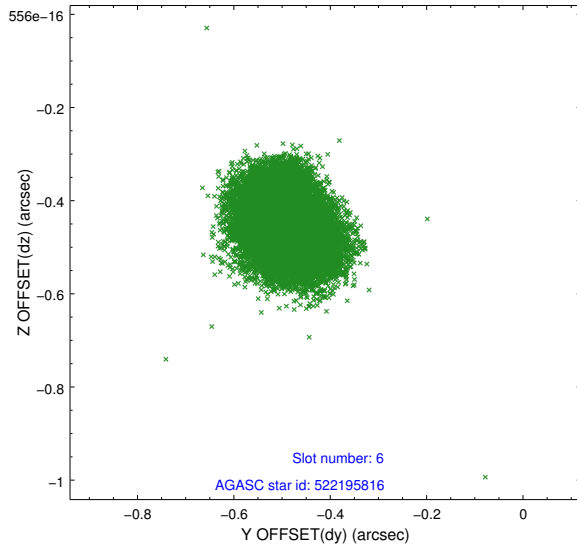
2.4.2 Slot 4



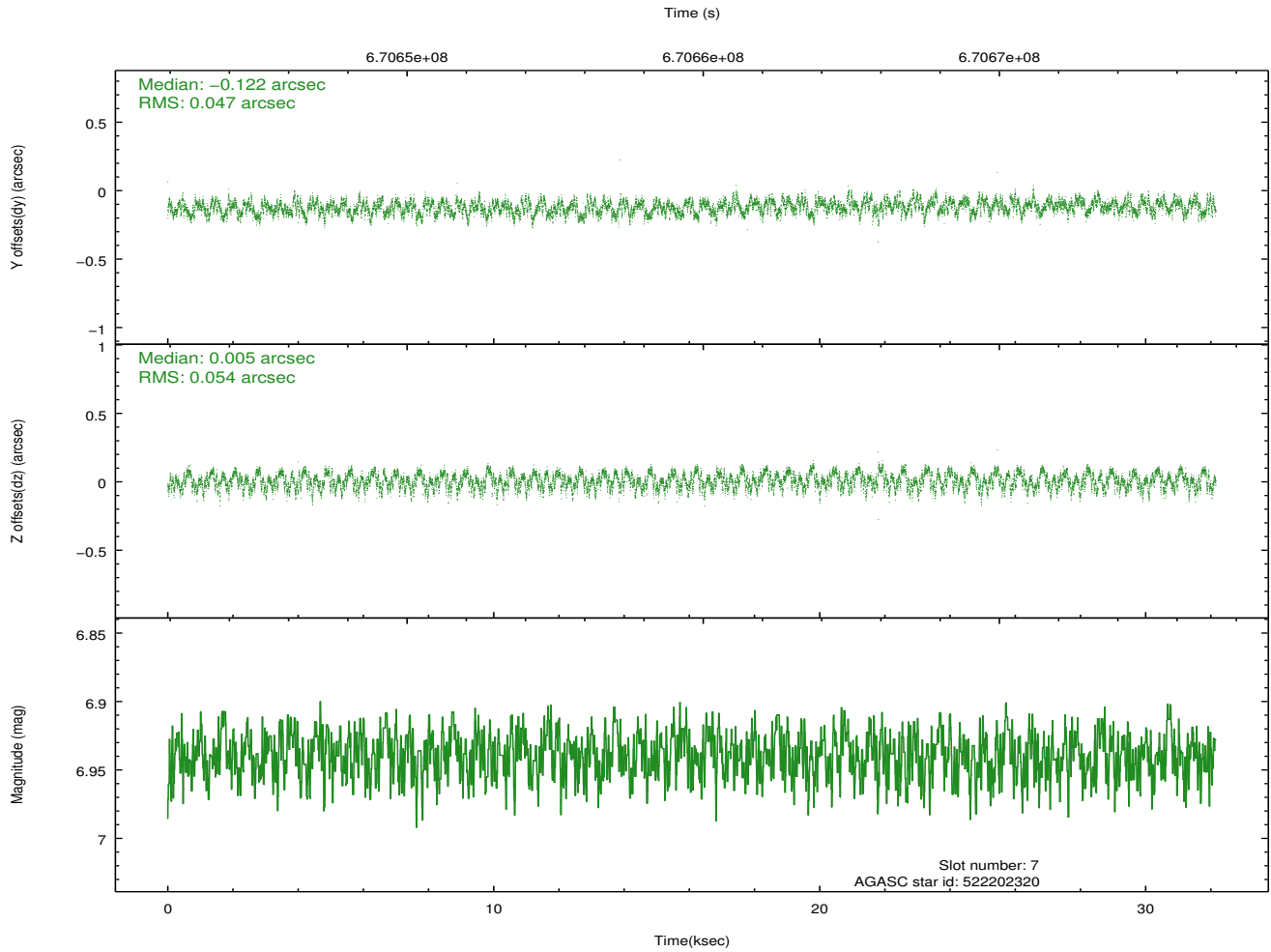
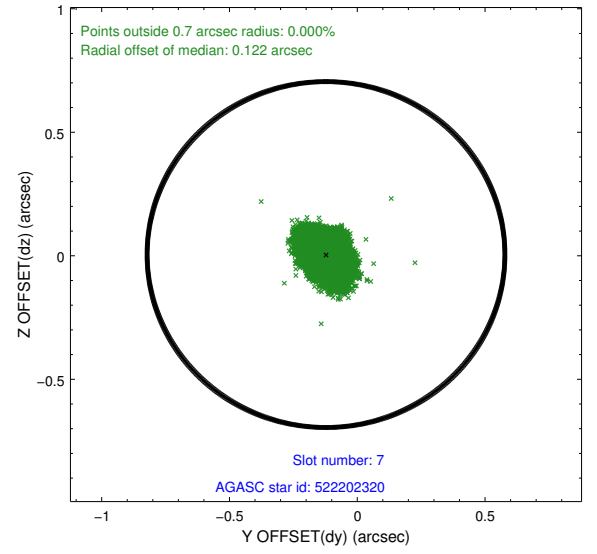
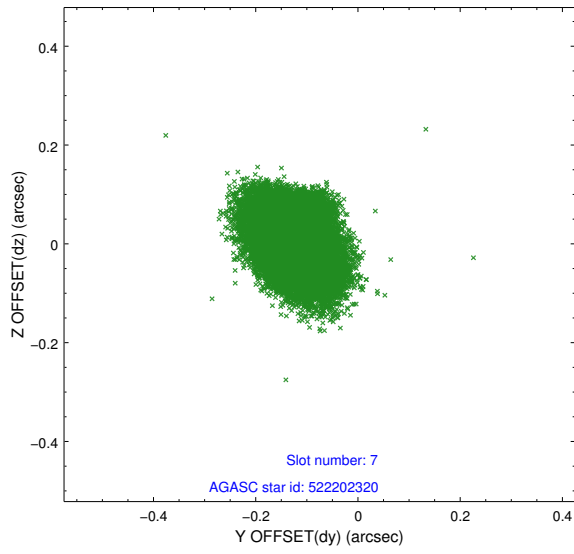
2.4.3 Slot 5



2.4.4 Slot 6

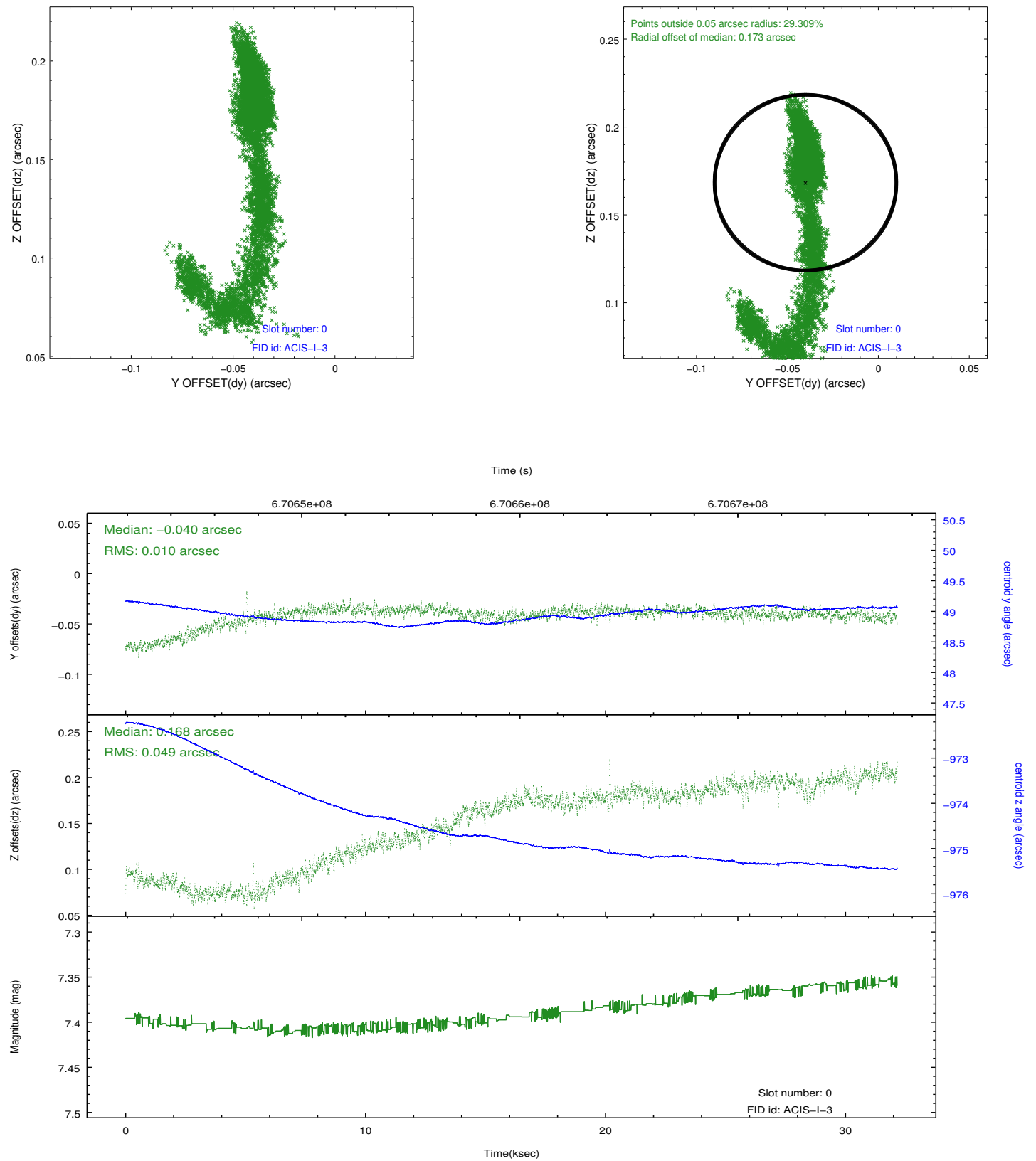


2.4.5 Slot 7

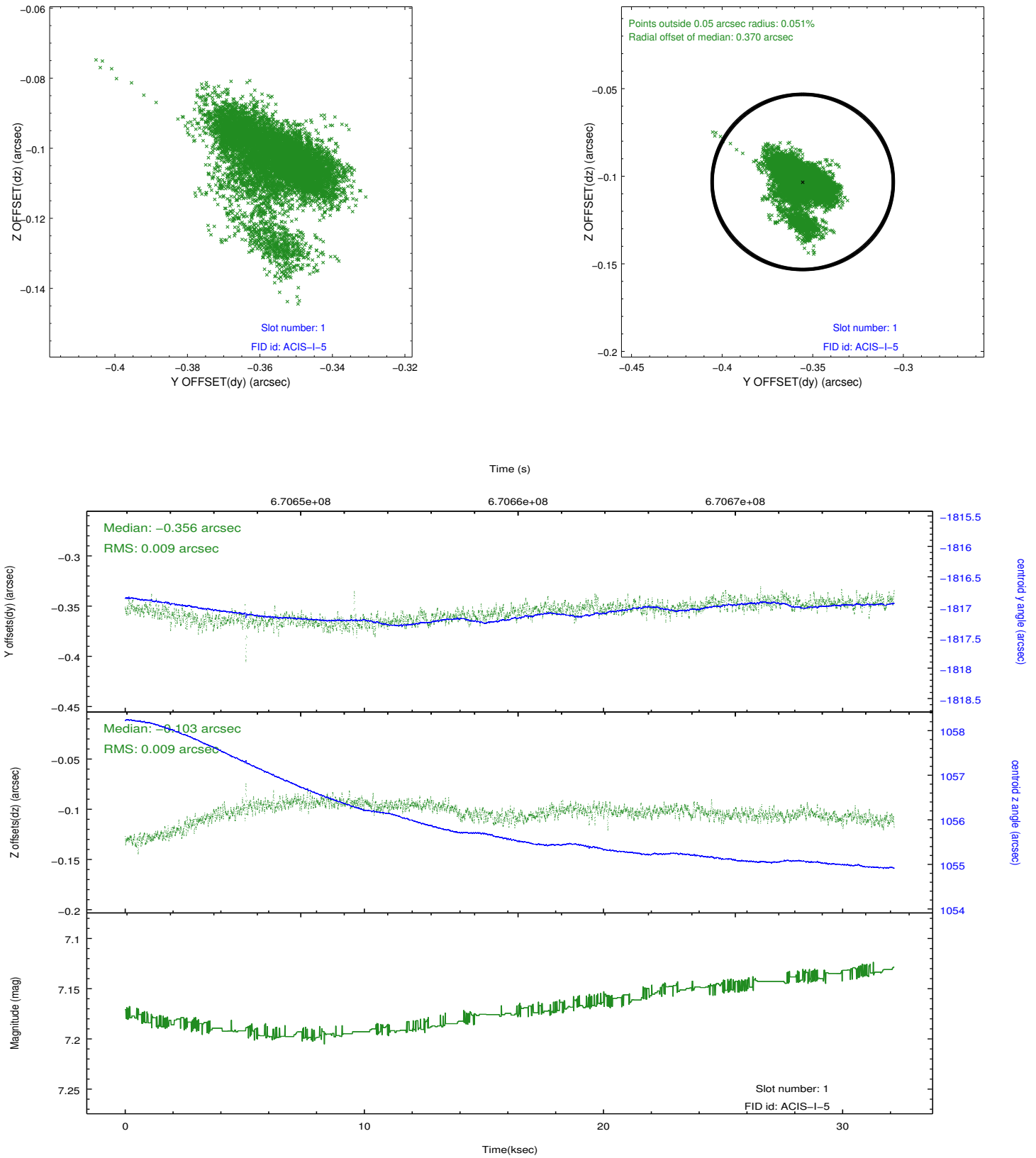


2.5 FID Slots

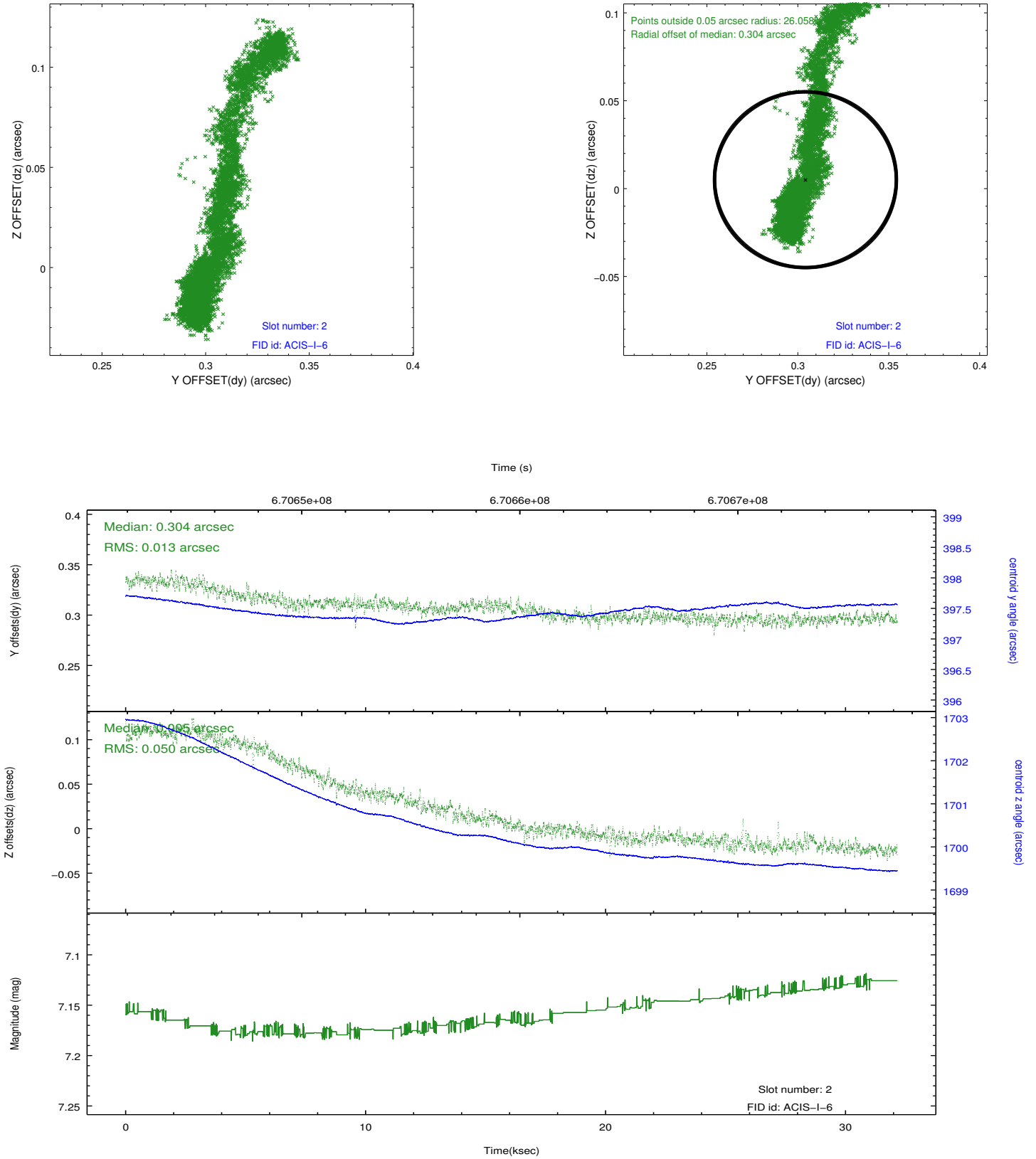
2.5.1 Slot 0



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)	2019.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.06933559227

A.2 Comments