

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18822 - L2 Version 1
Chandra X-Ray Center

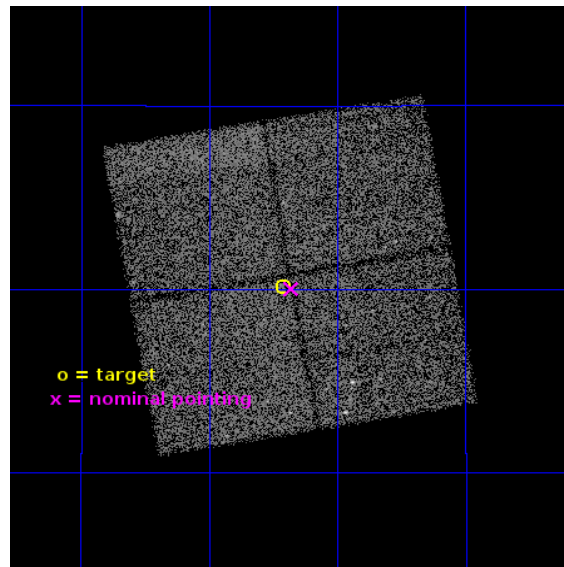
L2 Processing Date : Apr 15 2016

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1 Front

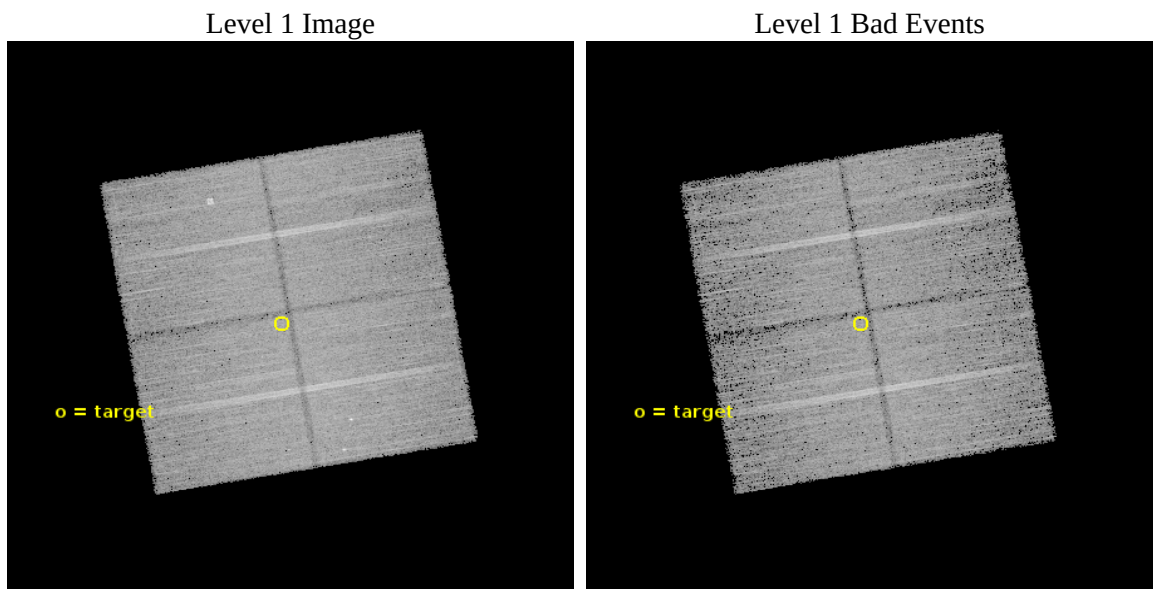
seq_num	801501	Sequence number
obs_id	18822	Observation id
title	Chandra mapping of the cosmic web converging on the virialization region of Abell 1795	Proposal title
observer	Dr Alexey Vikhlinin	Principal investigator
object	Abell 1795 outskirts	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.802742	Observer's specified target RA [deg]
dec_targ	26.668667	Observer's specified target Dec [deg]
ra_nom	207.79475194221	Nominal RA [deg]
dec_nom	26.667214048076	Nominal Dec [deg]
roll_nom	170.21226638919	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29081.10022378	Sum of GTIs [s]
livetime	28701.134240161	Livetime [s]
ontime0	29081.10022378	Sum of GTIs [s]
ontime1	29081.10022378	Sum of GTIs [s]
ontime2	29081.10022378	Sum of GTIs [s]
ontime3	29081.10022378	Sum of GTIs [s]
l2events	64769	Number of level 2 events



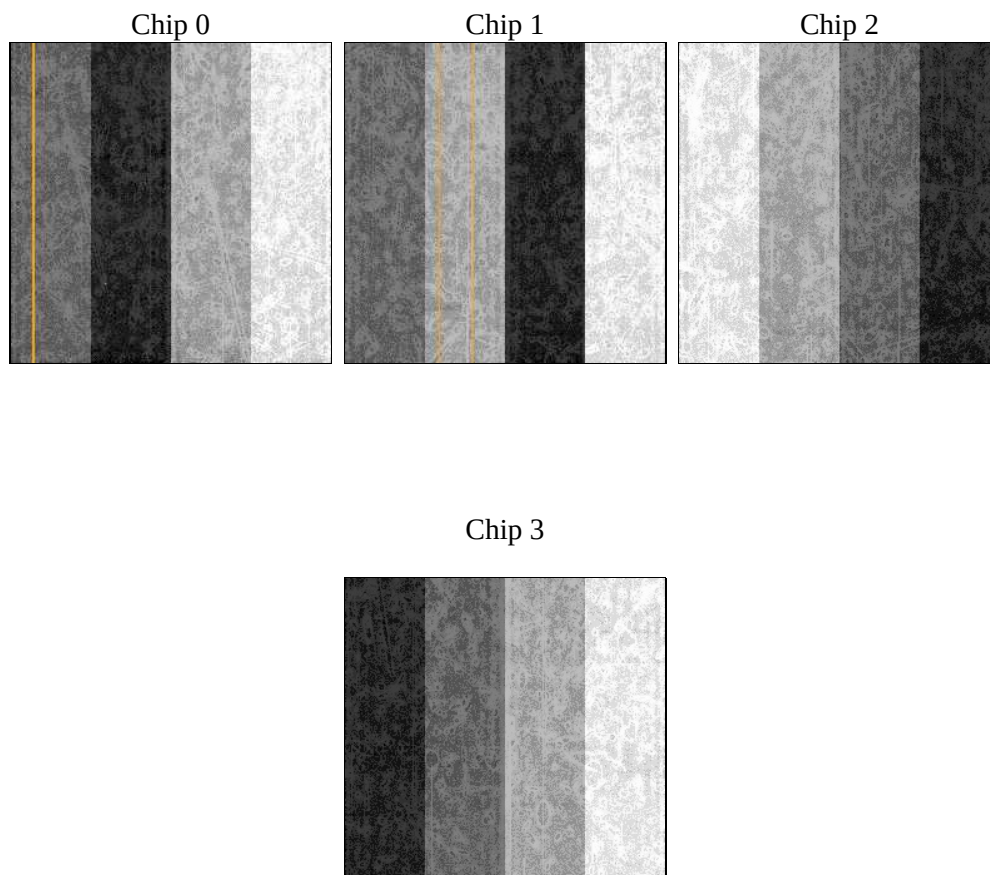
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	29081.10022378	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	29081.10022378	Sum of GTIs [s]
date	2016-04-15T17:19:02	Date and time of file creation	ontime1	29081.10022378	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	29081.10022378	Sum of GTIs [s]
			ontime3	29081.10022378	Sum of GTIs [s]
			l1events	658477	Number of level 1 events

2.1.4 Events

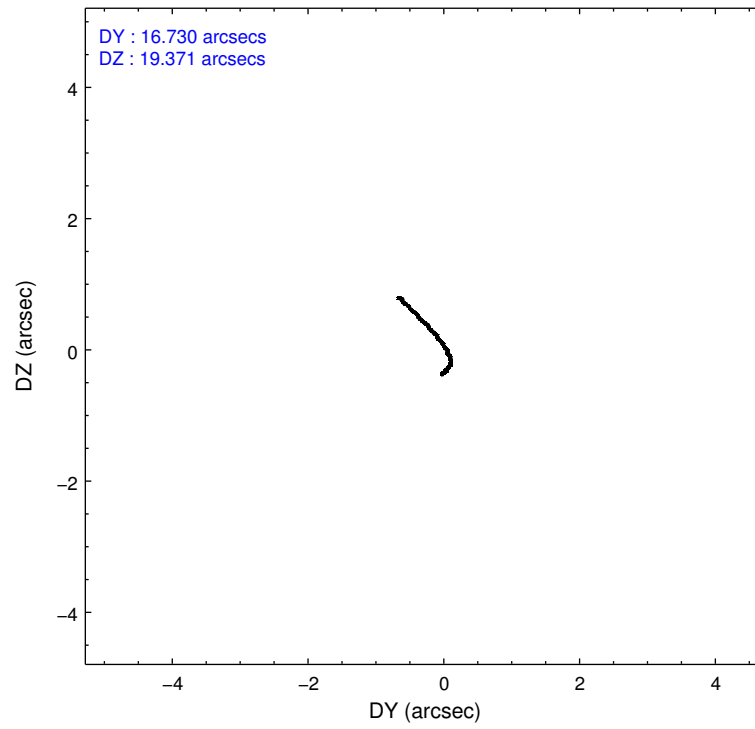
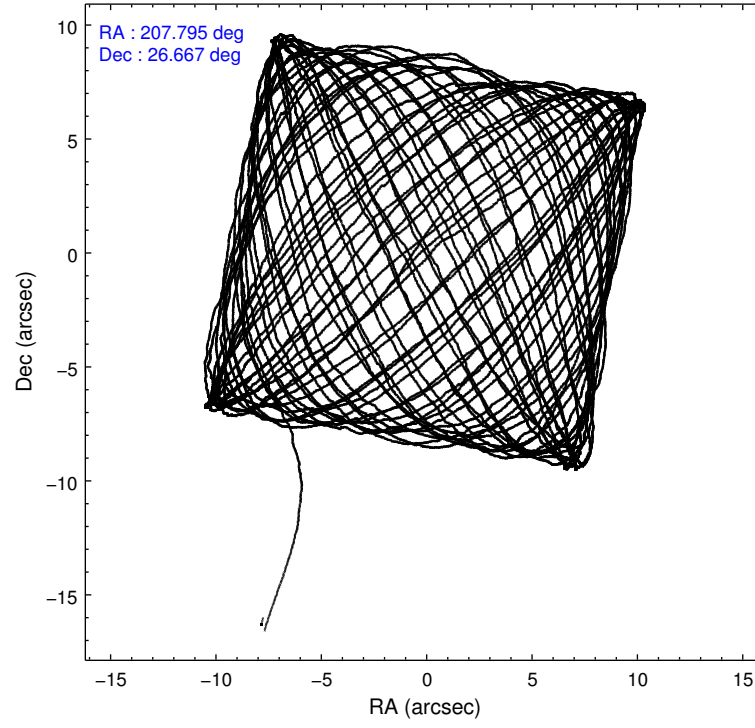
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	156335	161565	174100	166477
rejected events	137065	139318	154876	148225
rejected %	87%	86%	88%	89%

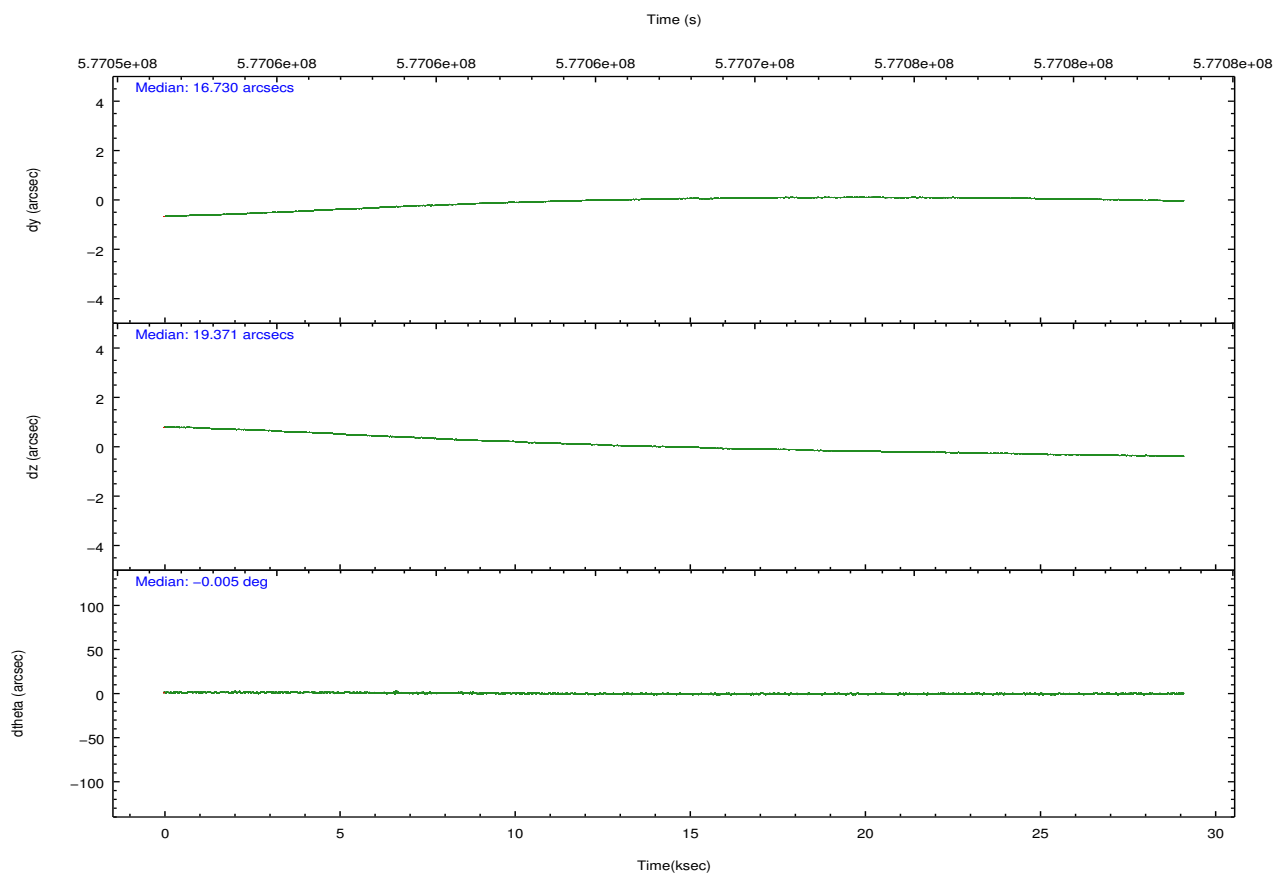
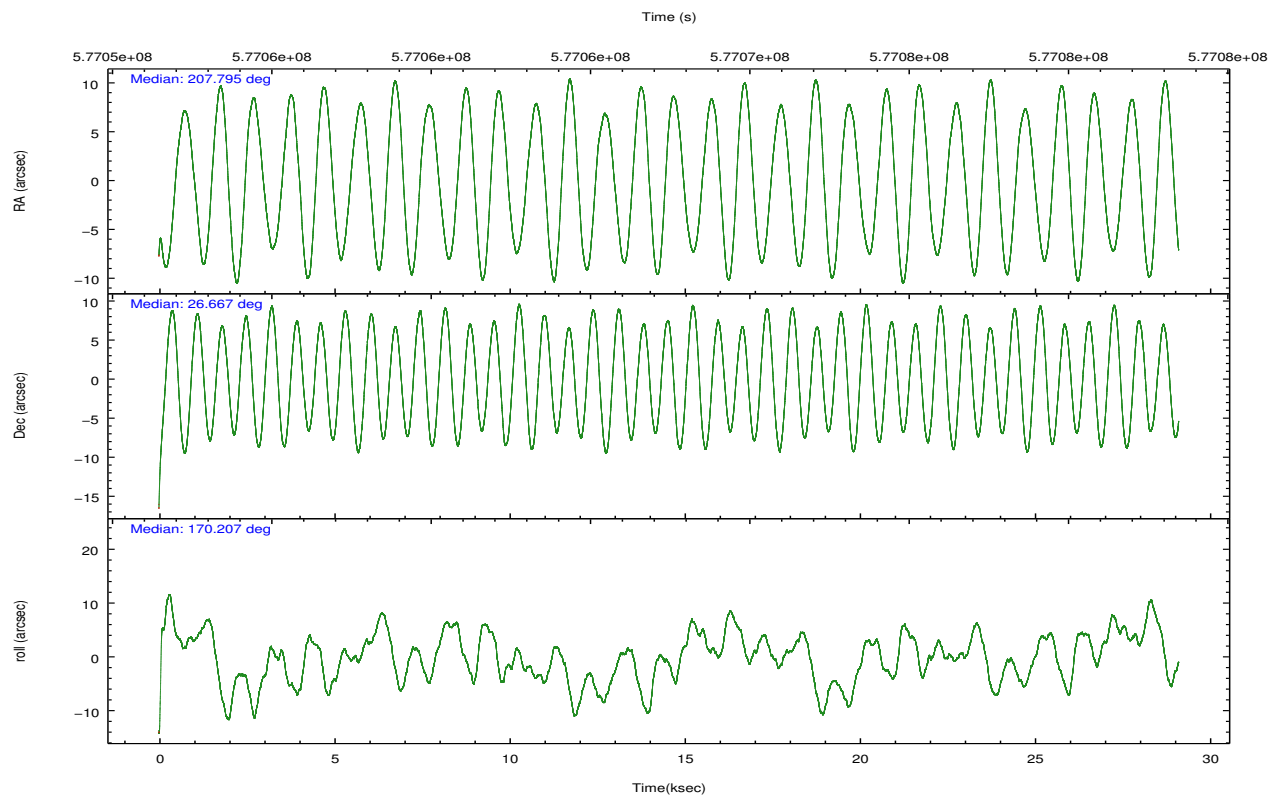
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	6583	8246	7184	6335
	4%	5%	4%	3%
grade 1 events	75	102	102	106
	0%	0%	0%	0%
grade 2 events	4857	5165	4637	4001
	3%	3%	2%	2%
grade 3 events	1990	2018	1897	2014
	1%	1%	1%	1%
grade 4 events	1852	2076	1868	1952
	1%	1%	1%	1%
grade 5 events	7181	8025	6887	8419
	4%	4%	3%	5%
grade 6 events	3994	4743	3644	3952
	2%	2%	2%	2%
grade 7 events	129803	131190	147881	139698
	83%	81%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	207.823707	207.7947519422109	CCD I2 on	Y	Y
[deg] Pointing Dec	26.676854	26.66721404807632	CCD I3 on	Y	Y
[deg] Pointing Roll	169.990589	170.2122663891863	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	577053015.184000	577051991.36621	CCD S5 on	N	N
Observation start date	2016-04-14T20:29:07	2016-04-14T20:13:11	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	577082015.184000	577082231.94294	On-chip summing requested	N	N
Observation end date	2016-04-15T04:32:27	2016-04-15T04:37:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



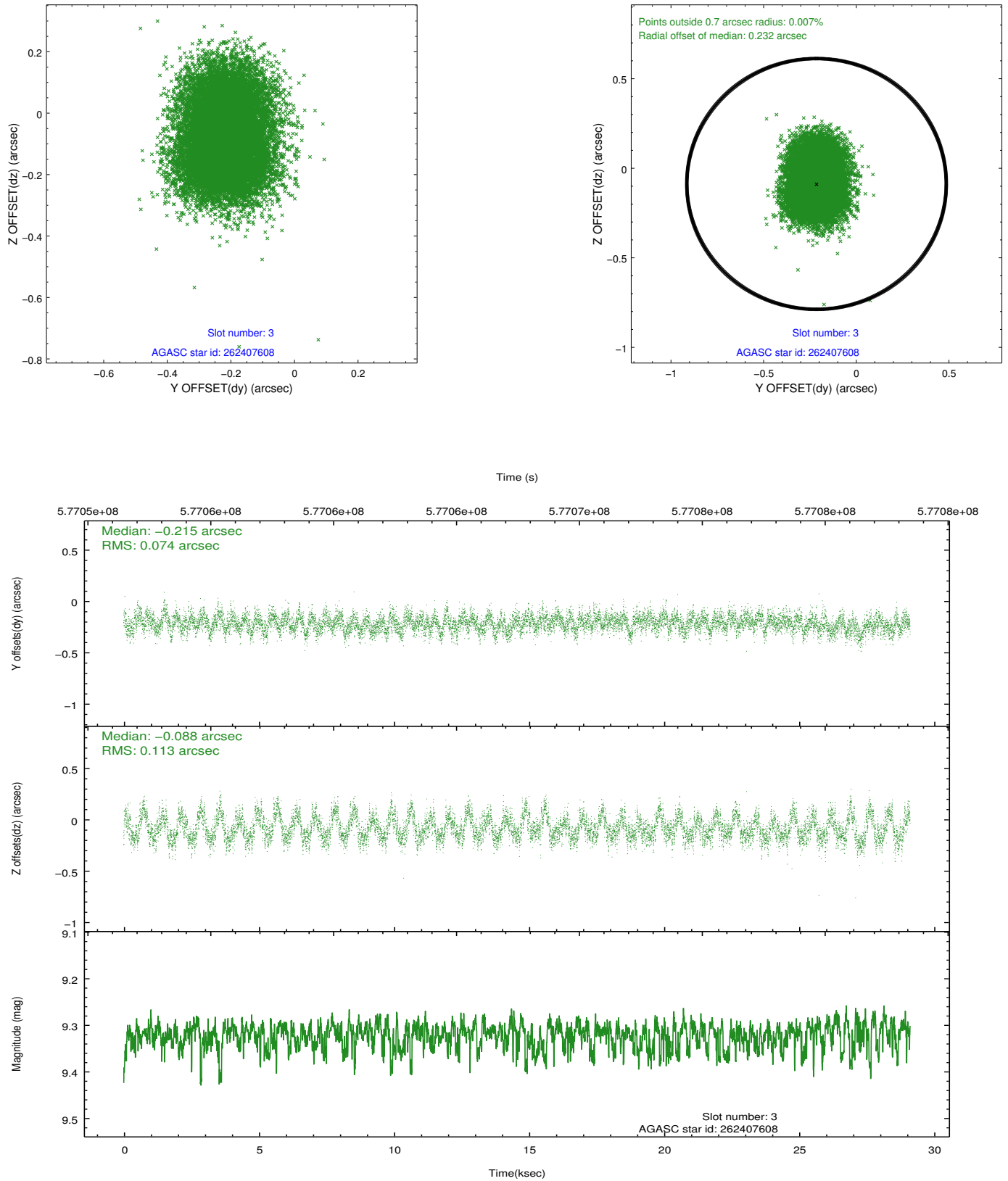


Slot Statistics

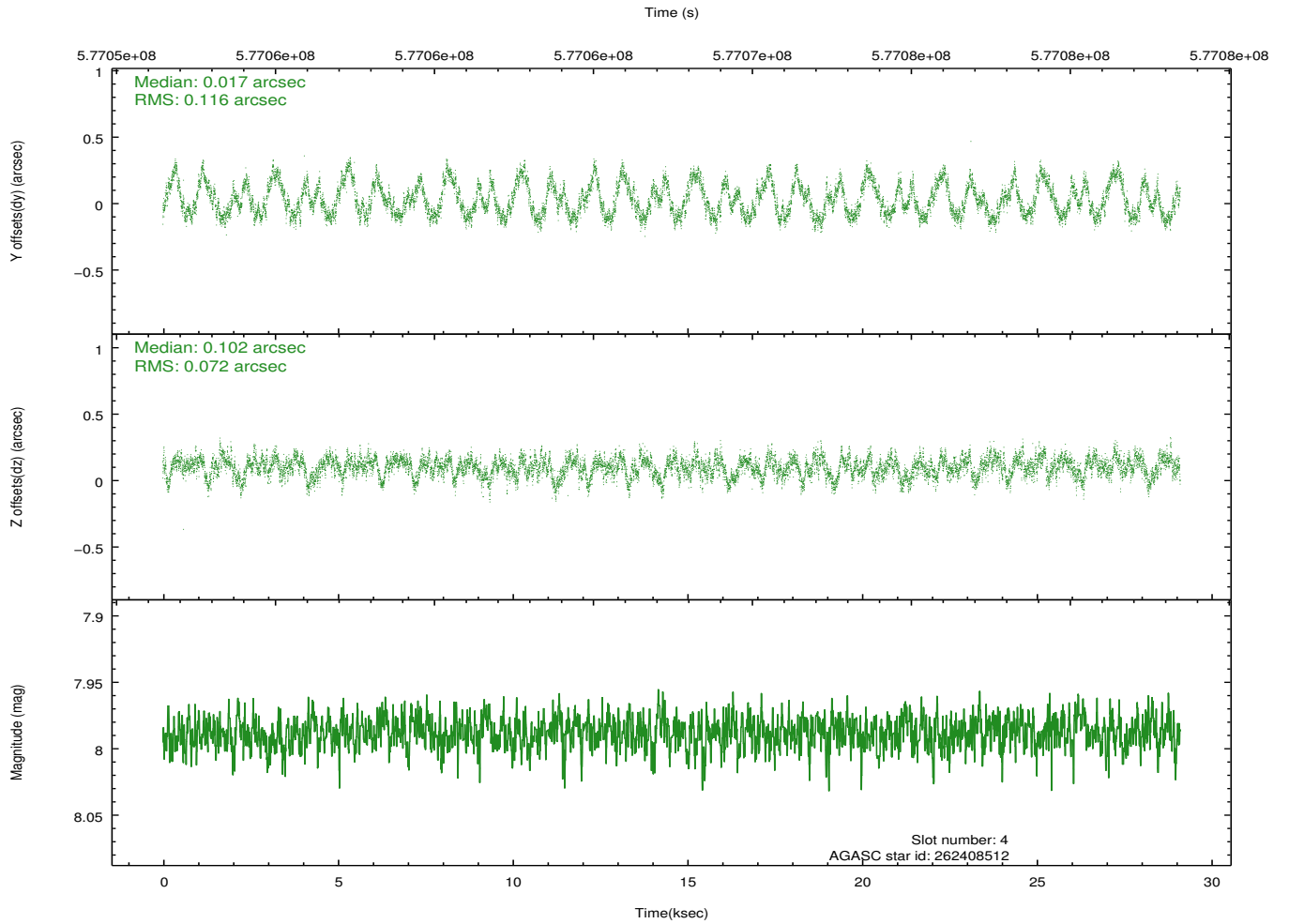
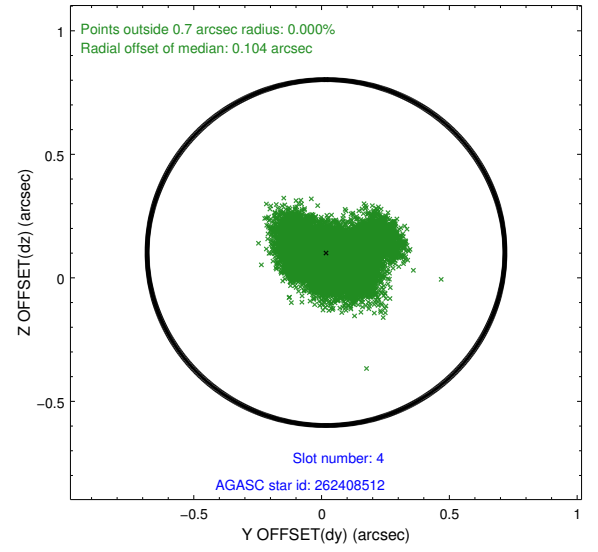
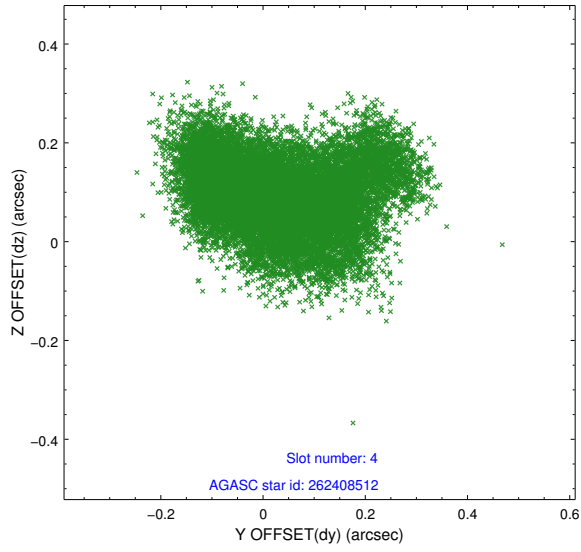
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	7101	0.065	-0.021	0.011	0.020	0.000000	0.000000	922.89	-843.15
1	FID		ACIS-I-5	7.25	7101	-0.368	0.025	0.008	0.018	0.000000	0.000000	-1825.69	1054.22
2	FID		ACIS-I-6	7.26	7102	0.212	0.068	0.012	0.024	0.000000	0.000000	388.38	1698.96
3	GUIDE	used	262407608	9.32	14170	-0.215	-0.088	0.145	0.231	207.378401	26.435507	1262.92	1103.05
4	GUIDE	used	262408512	7.99	14198	0.017	0.102	0.147	0.234	207.800210	27.128796	357.64	-1588.68
5	GUIDE	used	262408936	9.64	14169	0.080	-0.239	0.272	0.473	207.154731	26.726554	2150.49	192.42
6	GUIDE	used	262409648	8.36	14198	0.215	0.305	0.155	0.241	208.329010	27.087208	-1337.46	-1739.86
7	GUIDE	used	262414456	9.28	14189	-0.099	-0.097	0.127	0.214	208.043290	26.129682	-1041.33	1816.10

2.4 Star Slots

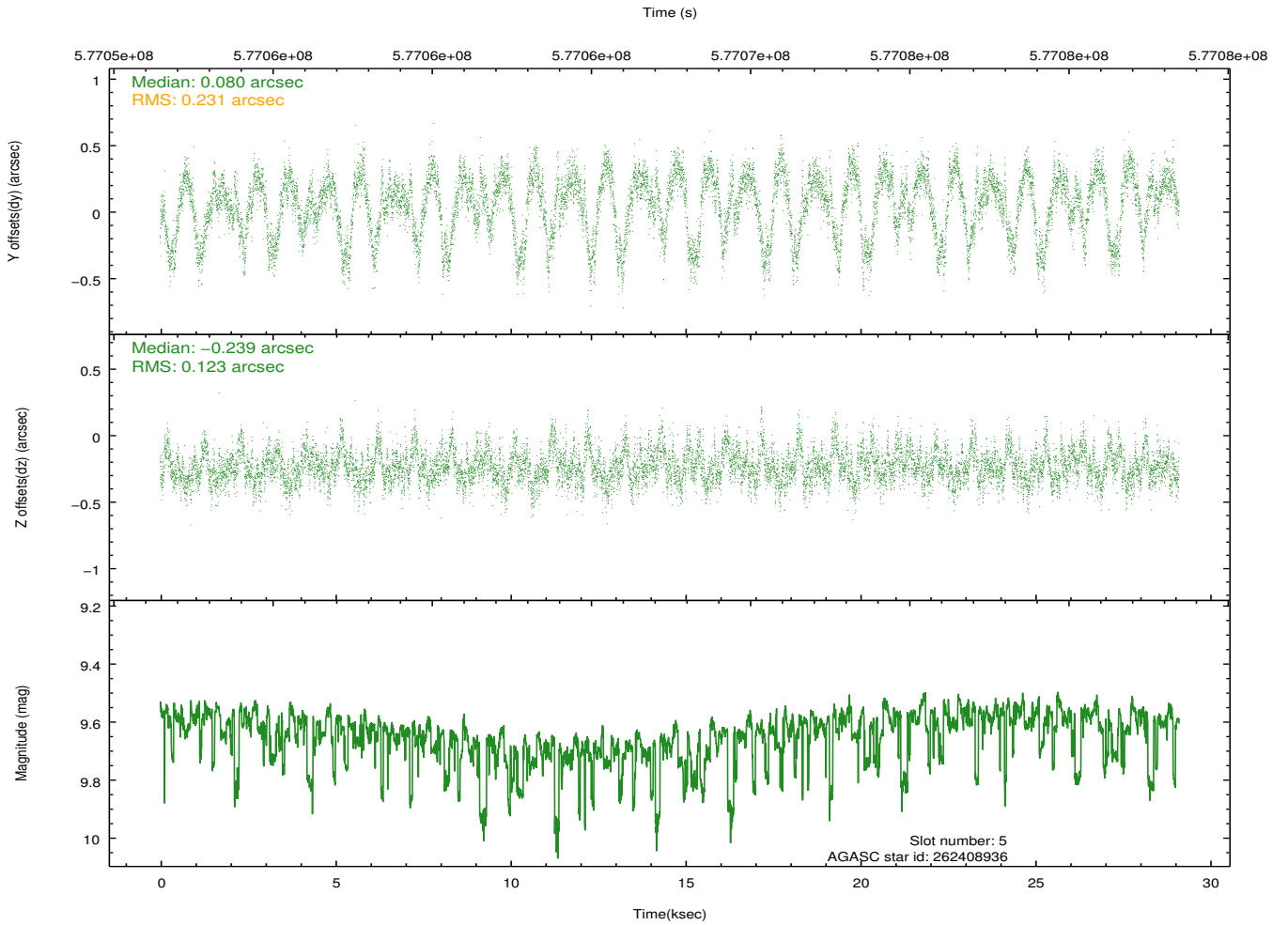
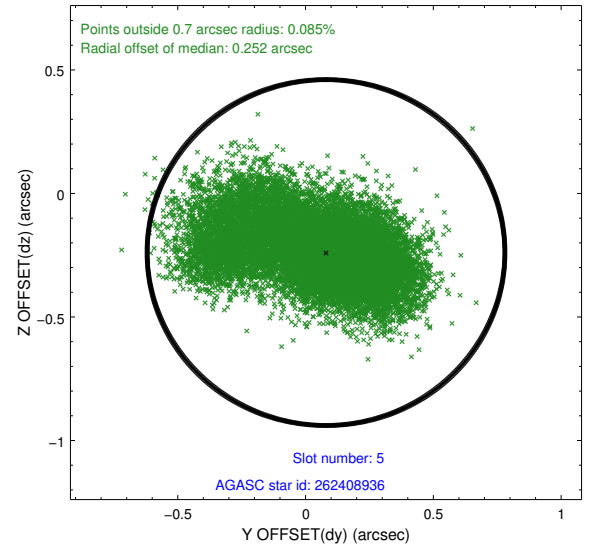
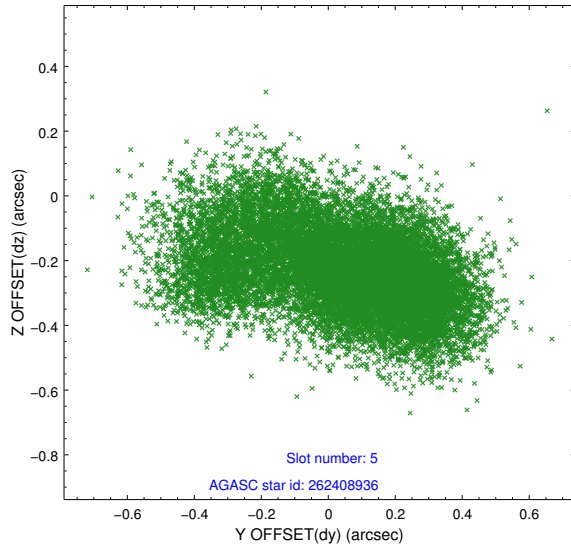
2.4.1 Slot 3



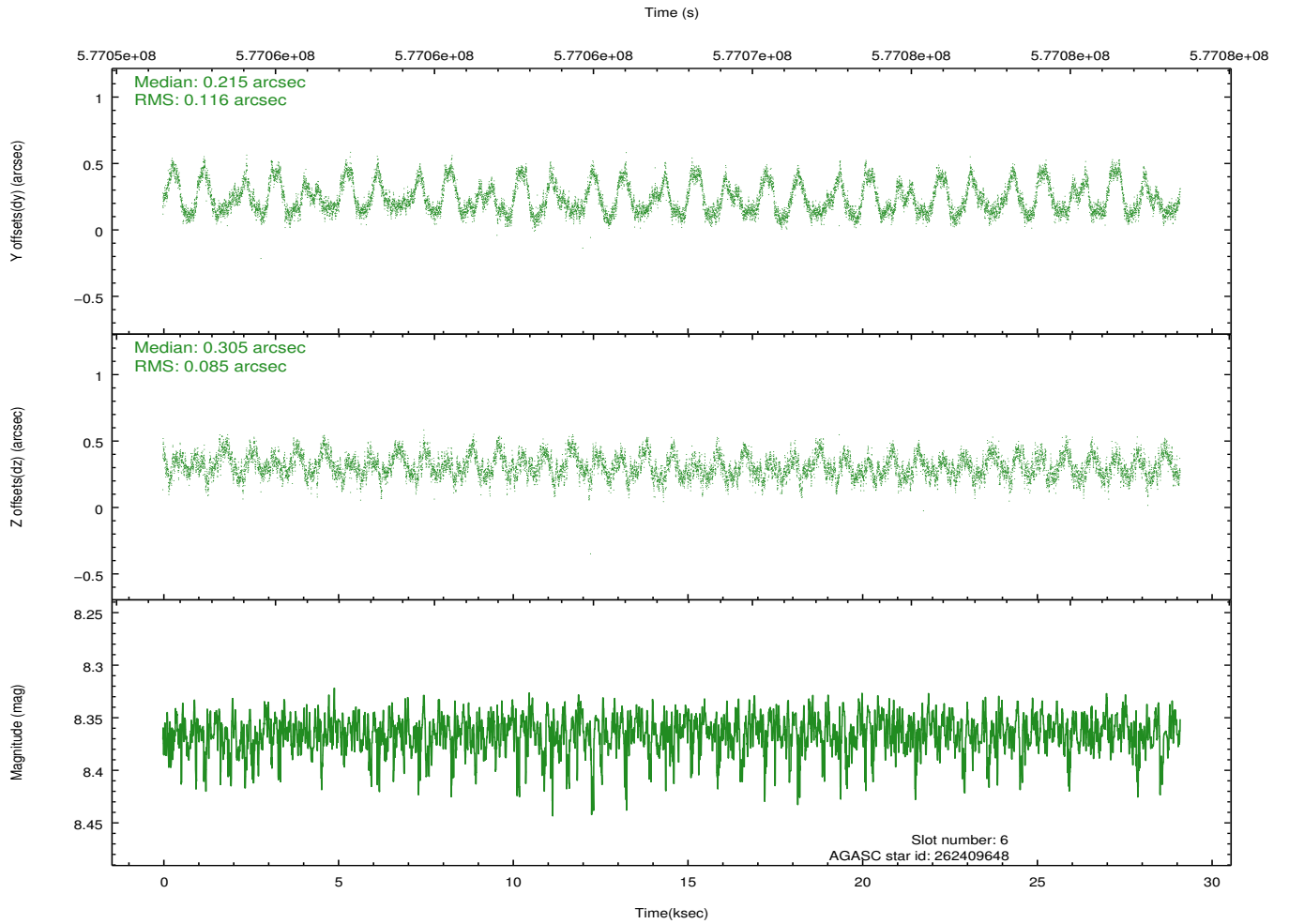
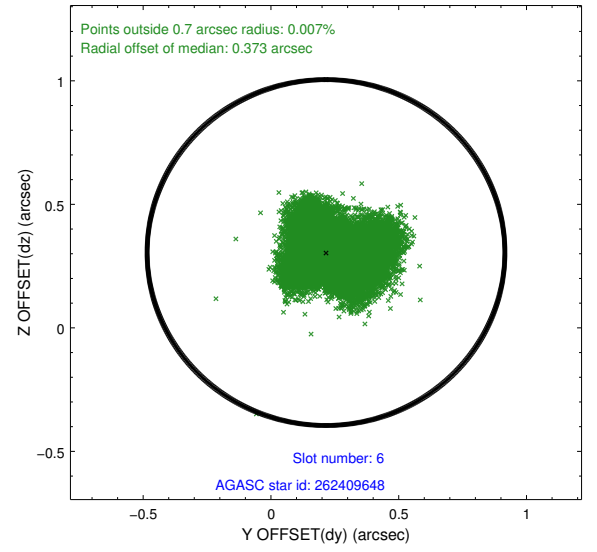
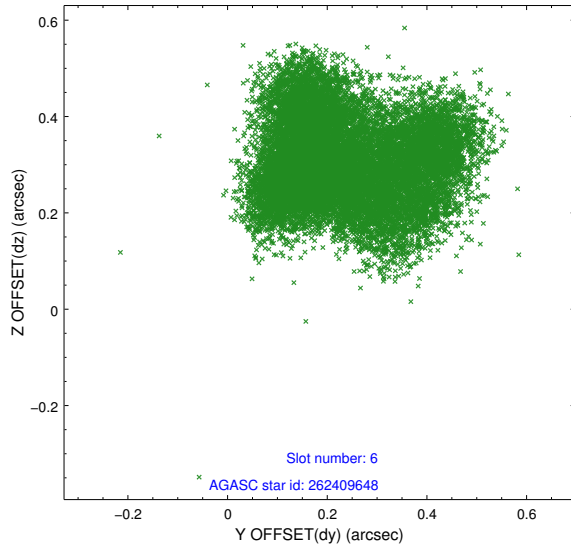
2.4.2 Slot 4



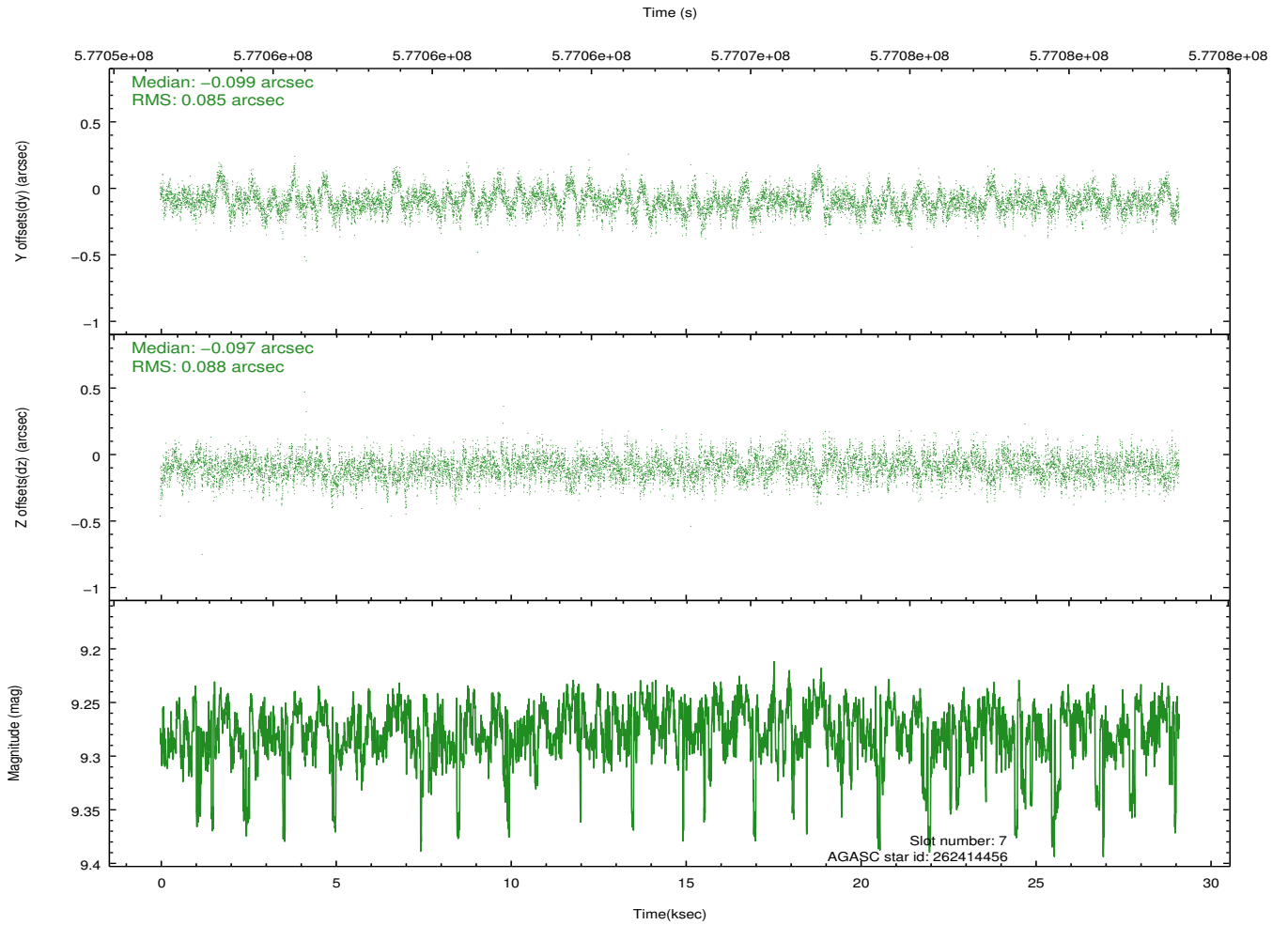
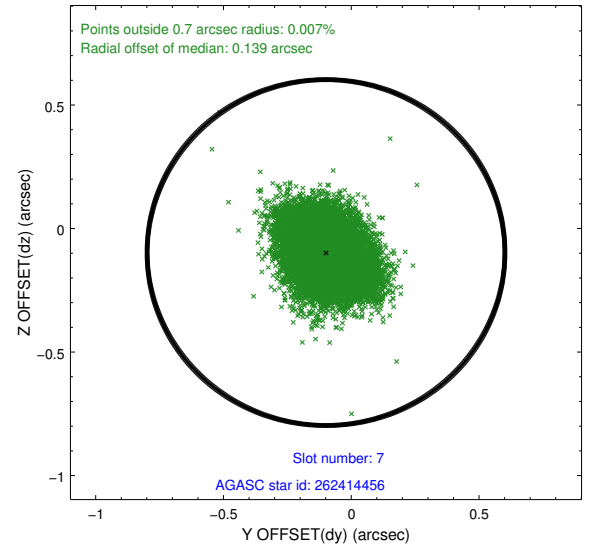
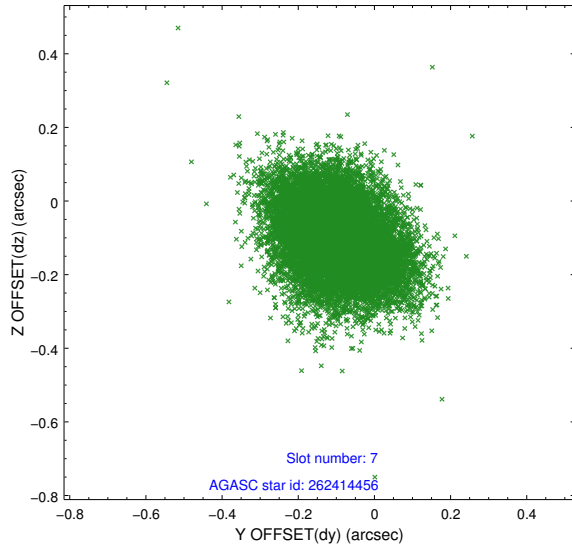
2.4.3 Slot 5



2.4.4 Slot 6

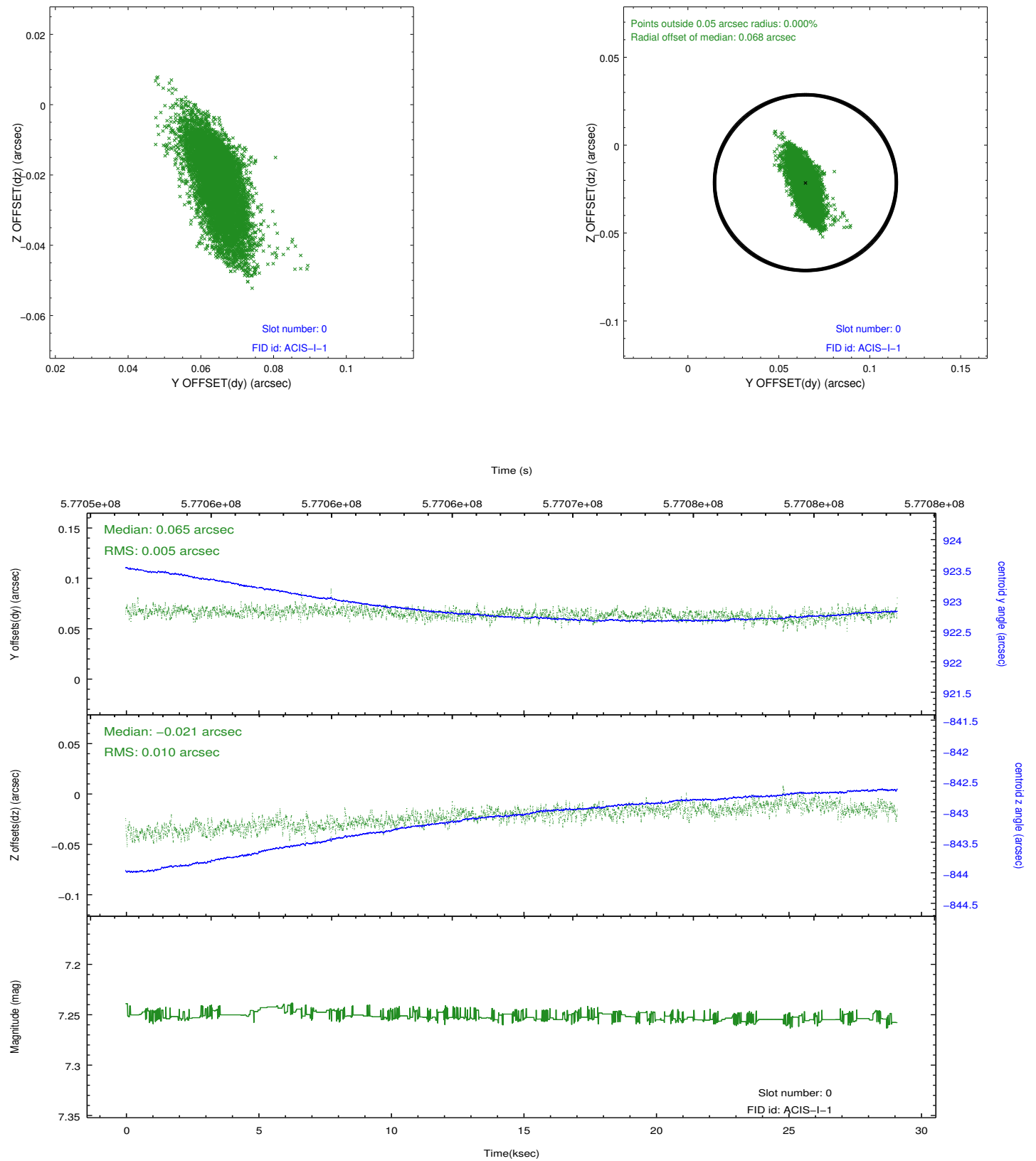


2.4.5 Slot 7

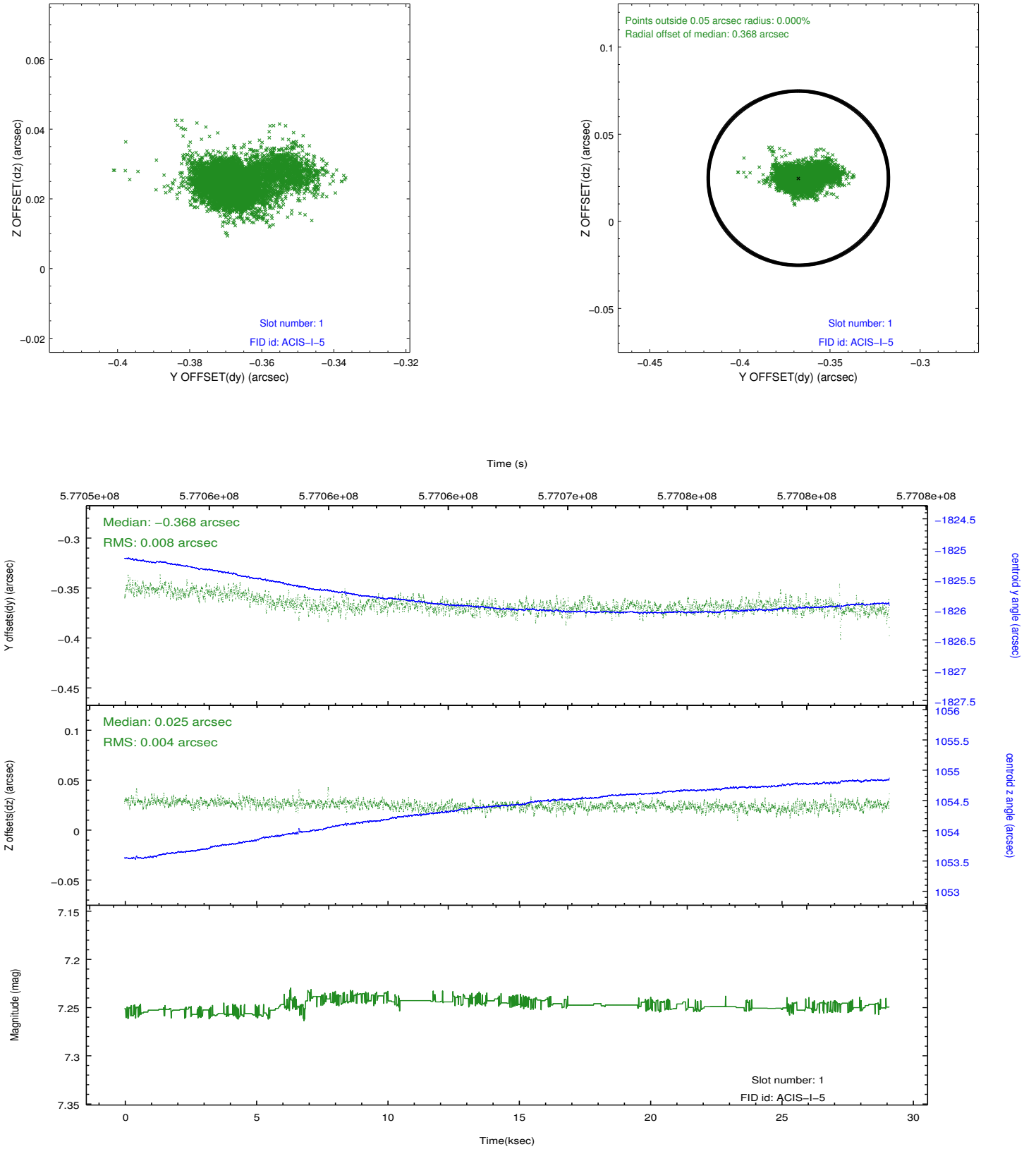


2.5 FID Slots

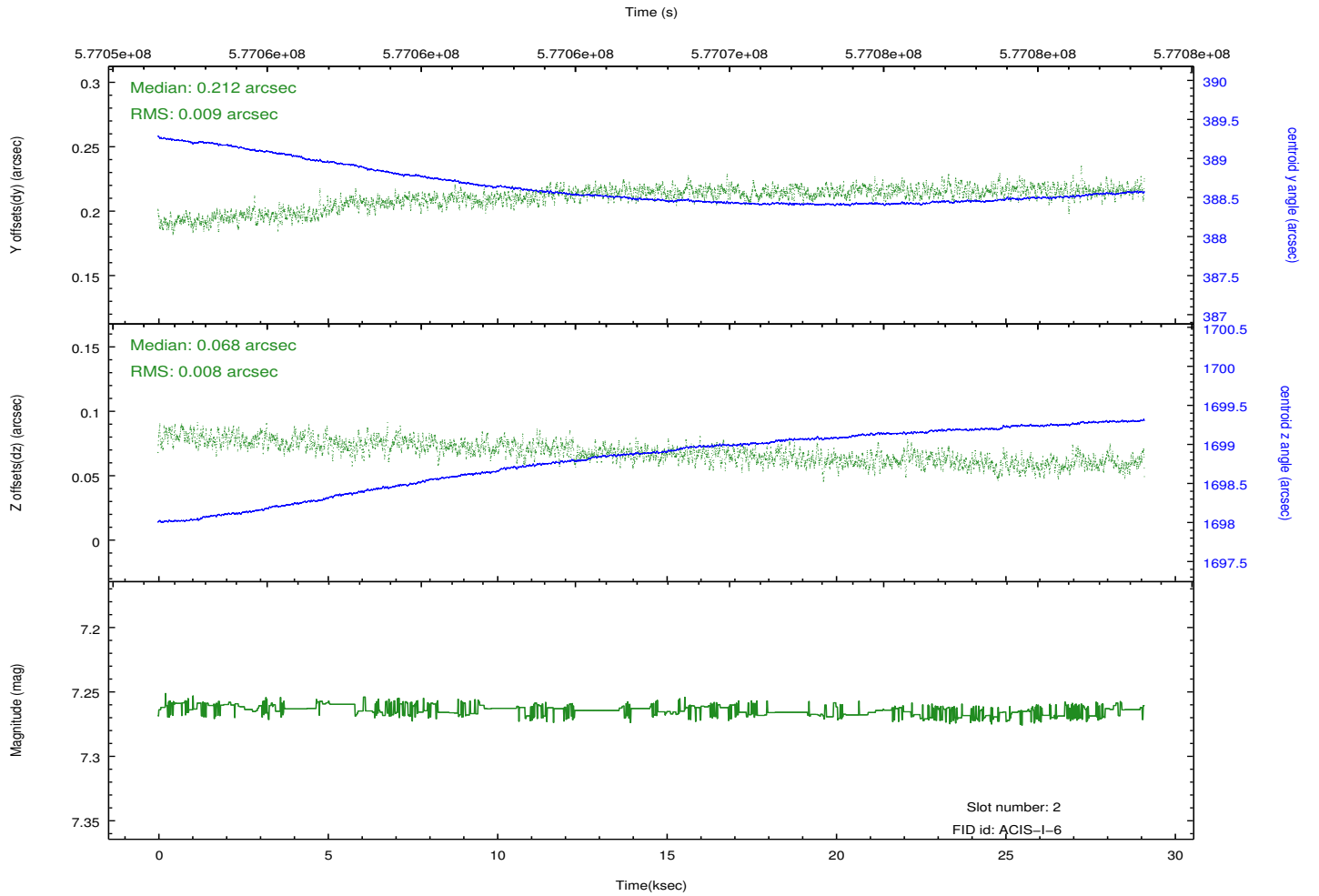
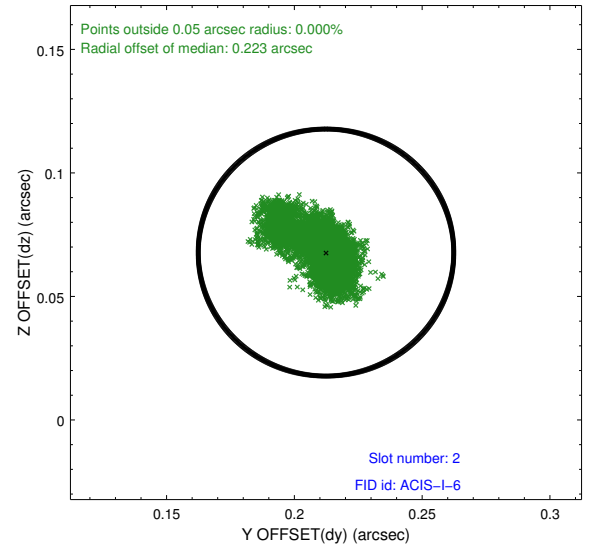
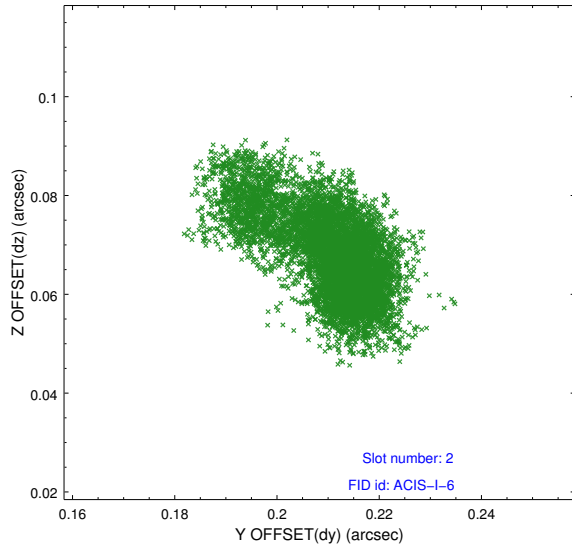
2.5.1 Slot 0



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)	2016.04.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.08110022378

A.2 Comments

Optional chip S2 was dropped.