

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22629 - L2 Version 1
Chandra X-Ray Center

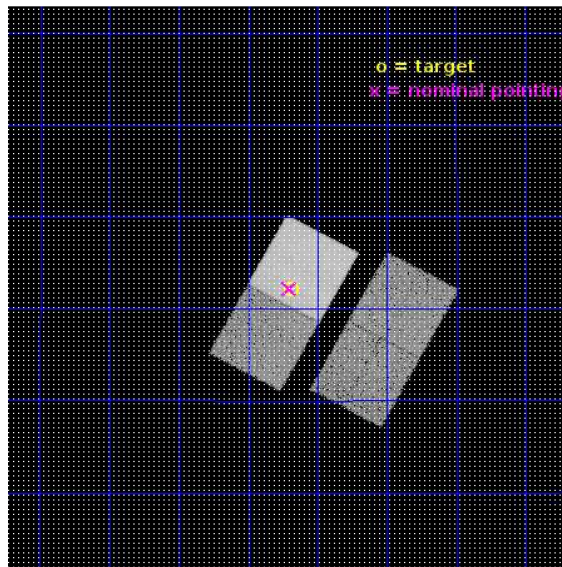
L2 Processing Date : Jan 11 2020

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1 Front

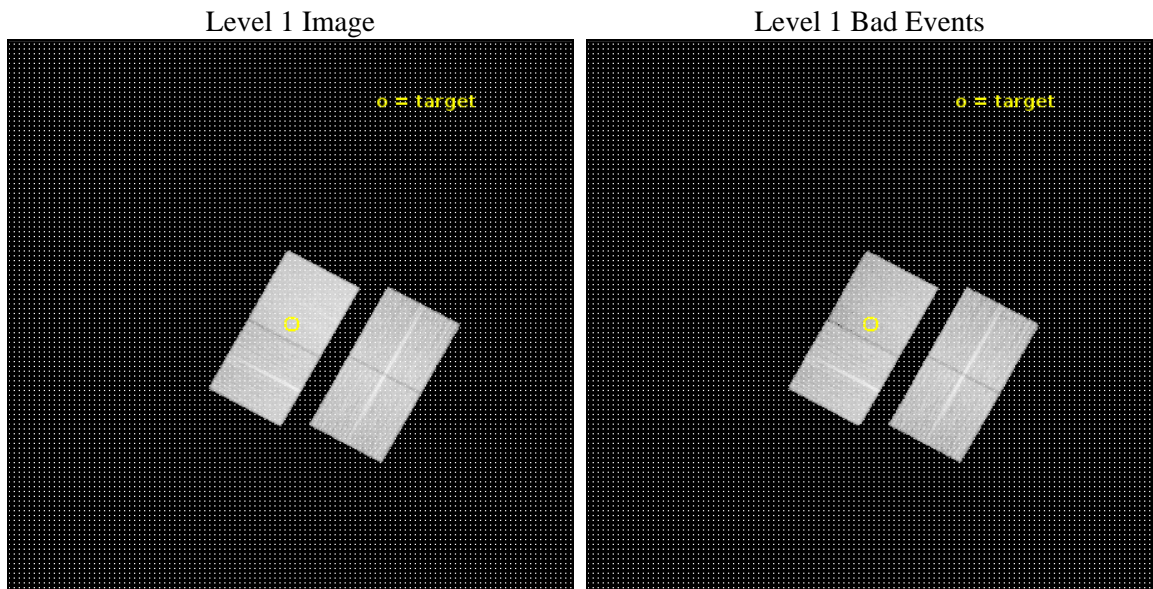
seq_num	704013	Sequence number
obs_id	22629	Observation id
title	XRAYING THE UNKNOWN 3CR EXTRAGALACTIC SKY	Proposal title
observer	Francesco Massaro	Principal investigator
object	3CR 158	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	95.421667	Observer's specified target RA [deg]
dec_targ	14.536528	Observer's specified target Dec [deg]
ra_nom	95.42565943974	Nominal RA [deg]
dec_nom	14.53676186244	Nominal Dec [deg]
roll_nom	298.64509289718	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24067.277455449	Sum of GTIs [s]
livetime	23752.820757422	Livetime [s]
ontime2	24064.013305545	Sum of GTIs [s]
ontime3	24064.054295063	Sum of GTIs [s]
ontime6	24057.81323421	Sum of GTIs [s]
ontime7	24067.277455449	Sum of GTIs [s]
l2events	153290	Number of level 2 events



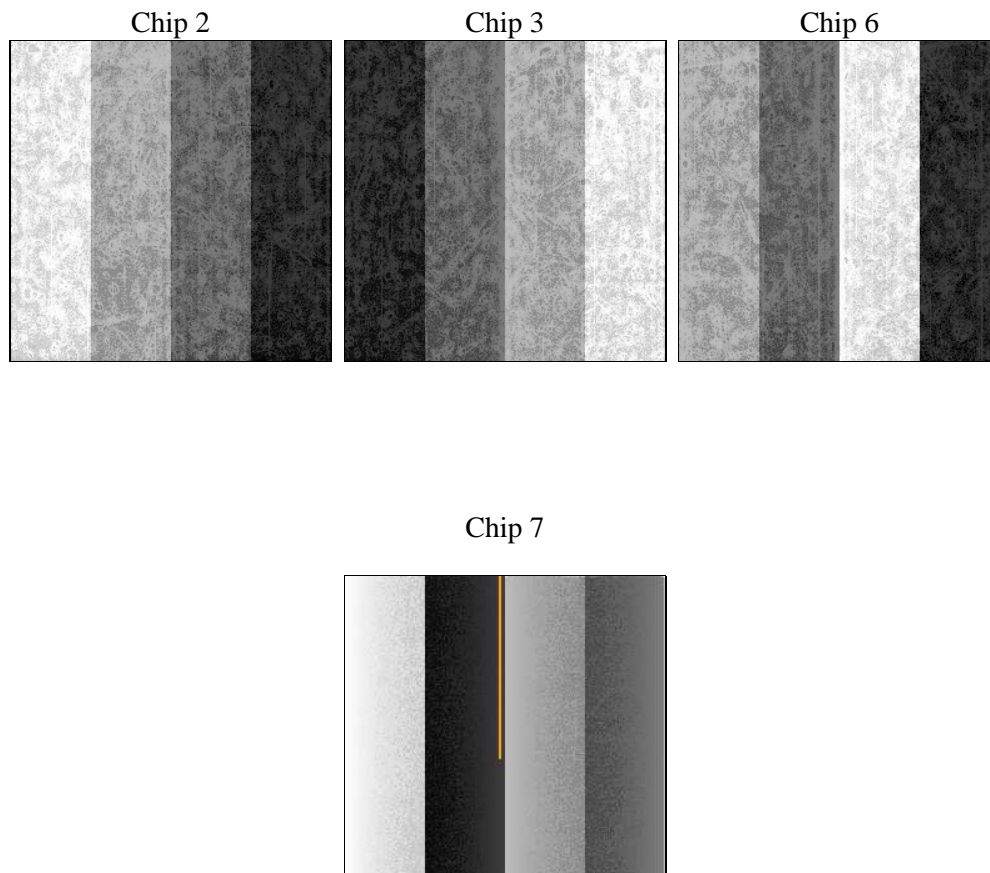
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	24067.277455449	Sum of GTIs [s]
caldbver	4.8.4.2	 	ontime2	24064.013305545	Sum of GTIs [s]
date	2020-01-11T19:00:25	Date and time of file creation	ontime3	24064.054295063	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	24057.81323421	Sum of GTIs [s]
			ontime7	24067.277455449	Sum of GTIs [s]
			l1events	790342	Number of level 1 events

2.1.4 Events

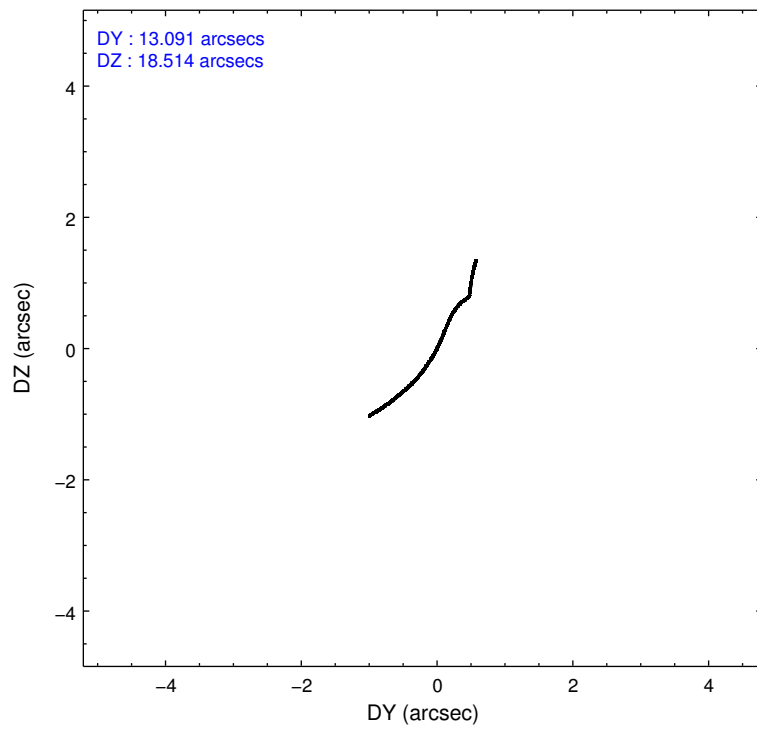
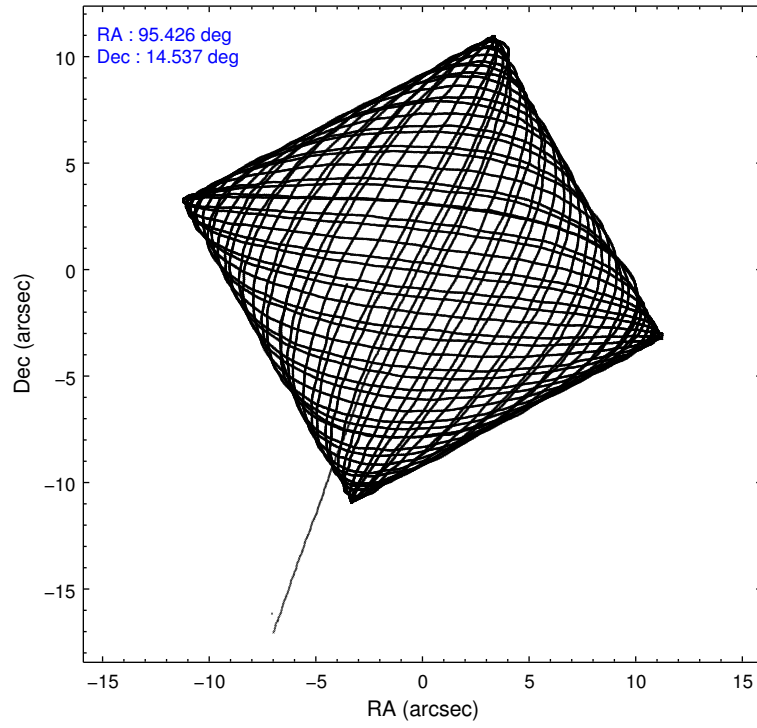
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	180911	177240	191730	240461
rejected events	161559	158154	170582	136462
rejected %	89%	89%	88%	56%

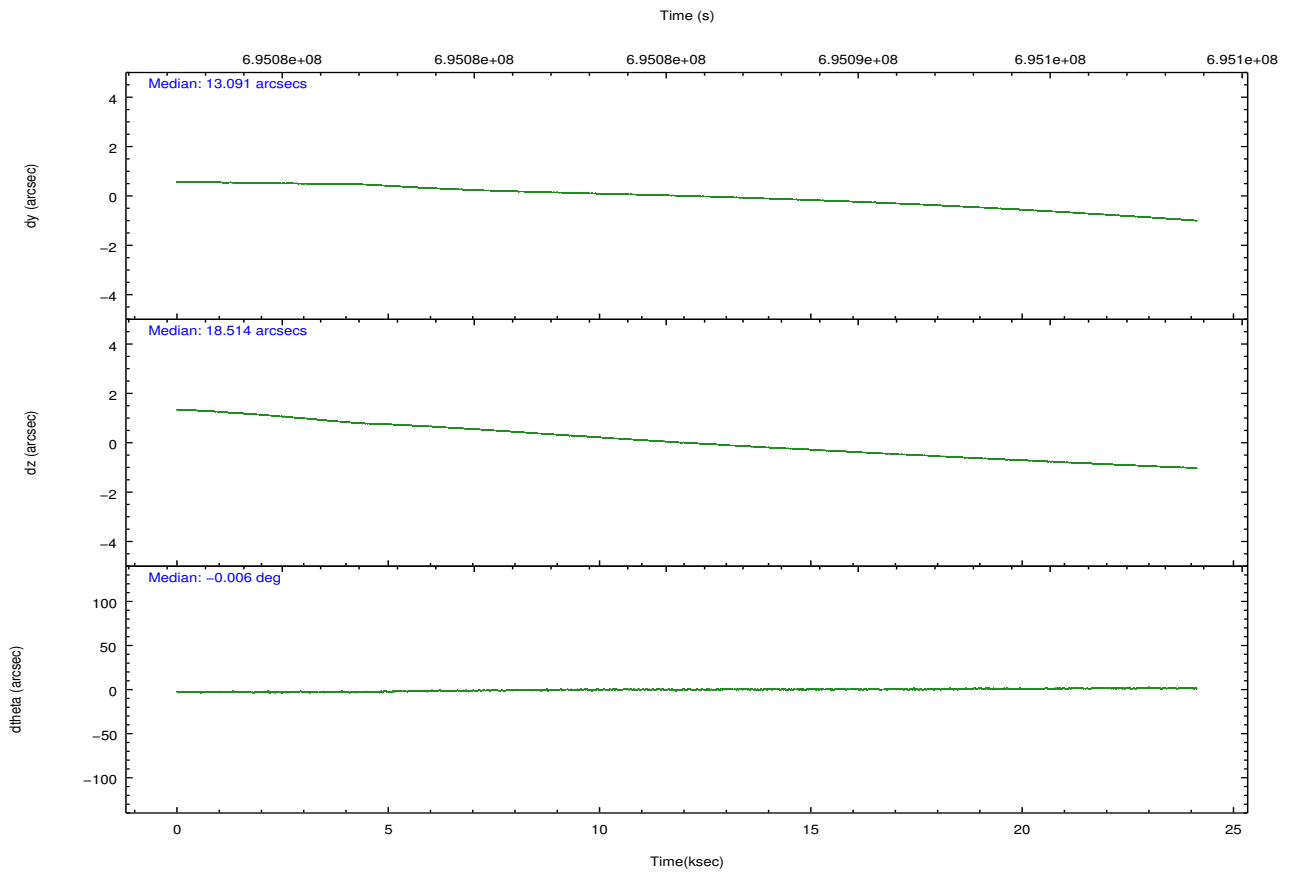
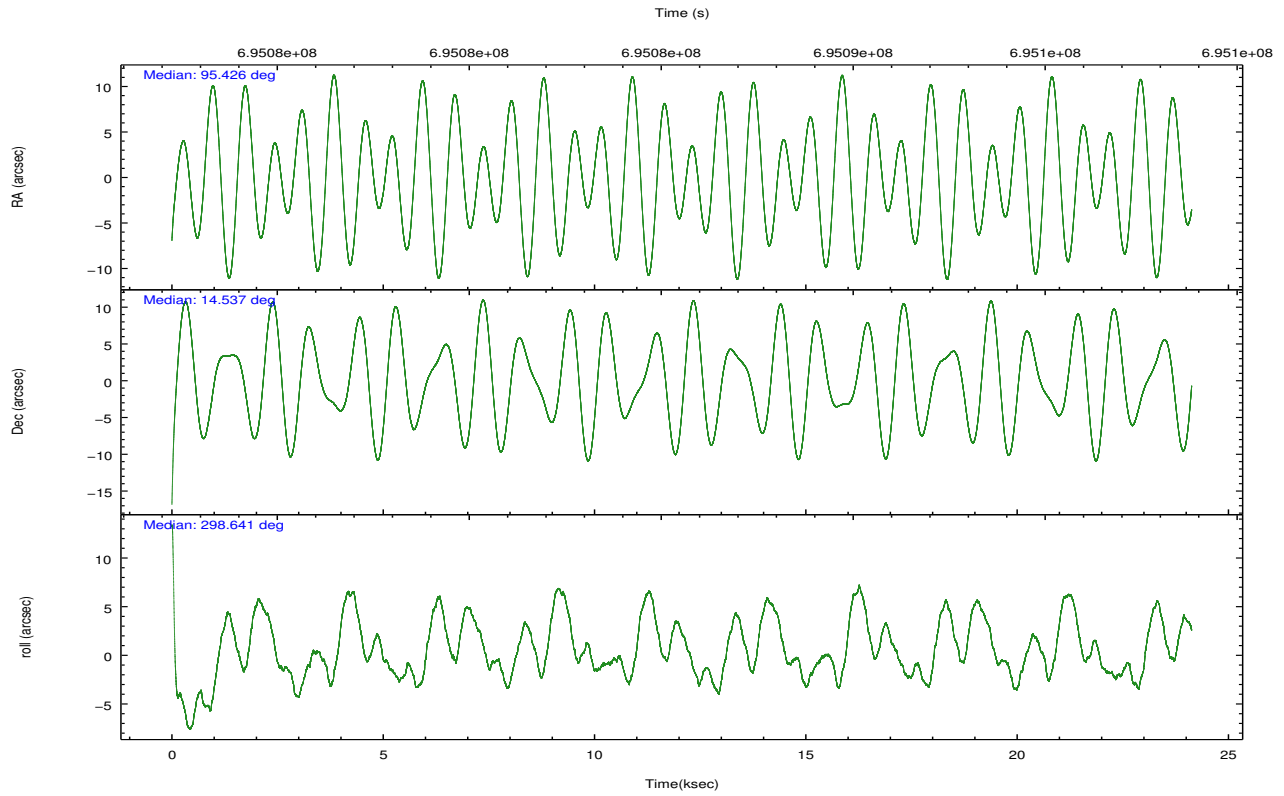
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	6840	6615	6663	8681
	3%	3%	3%	3%
grade 1 events	101	108	100	363
	0%	0%	0%	0%
grade 2 events	4731	4267	5236	22329
	2%	2%	2%	9%
grade 3 events	1899	2008	2034	8095
	1%	1%	1%	3%
grade 4 events	1894	2059	2016	8038
	1%	1%	1%	3%
grade 5 events	7569	8798	8693	23323
	4%	4%	4%	9%
grade 6 events	3992	4145	5207	56874
	2%	2%	2%	23%
grade 7 events	153885	149240	161781	112758
	85%	84%	84%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	95.401252	95.42565943974047	CCD I2 on	O1	Y
[deg] Pointing Dec	14.550729	14.53676186244007	CCD I3 on	O2	Y
[deg] Pointing Roll	298.494583	298.6450928971837	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	N	N
[s] Observation start time (MET)	695073587.184000	695072230.13184	CCD S5 on	N	N
Observation start date	2020-01-10T19:58:38	2020-01-10T19:37:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	695097587.184000	695098188.25841	On-chip summing requested	N	N
Observation end date	2020-01-11T02:38:38	2020-01-11T02:49:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





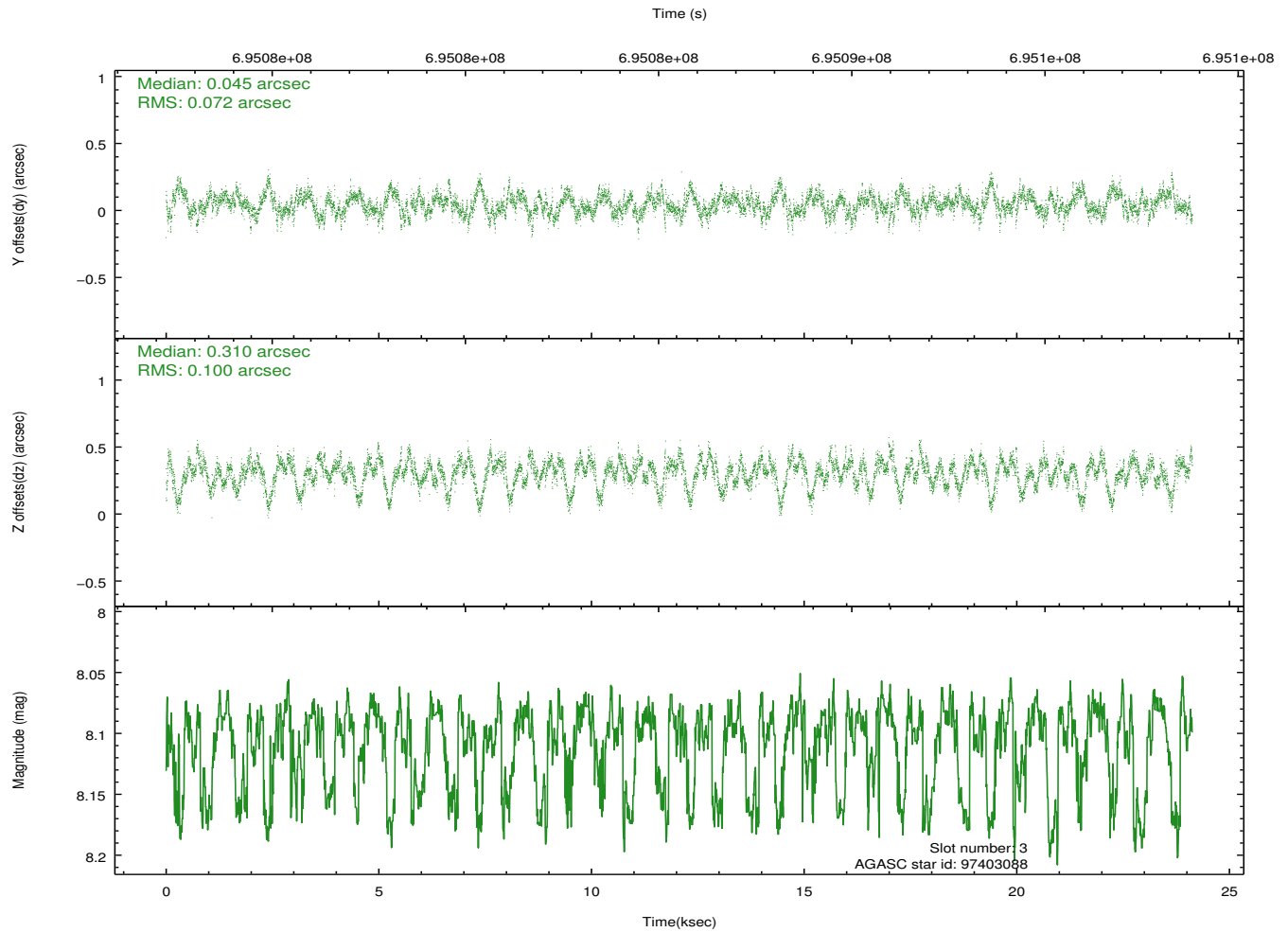
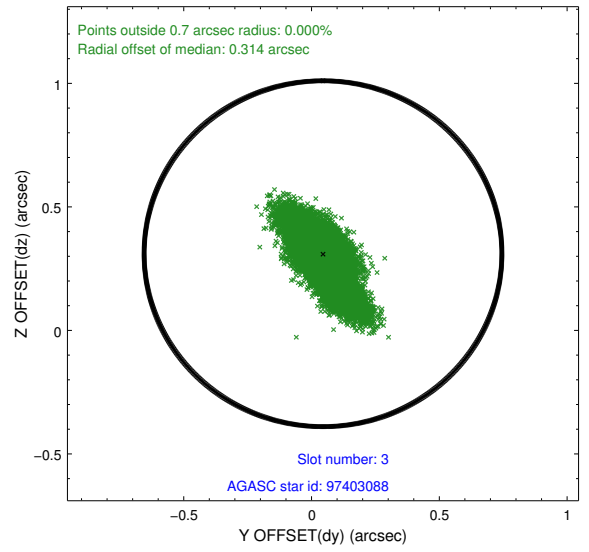
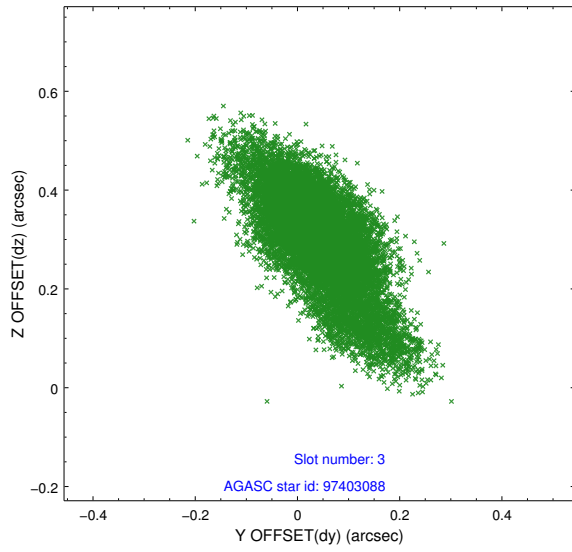
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.02	5886	1.000	-0.243	-0.186	0.022	0.044	0.000000	0.000000	-766.14	-1740
1	FID		ACIS-S-4	7.15	5885	1.000	0.729	0.169	0.025	0.044	0.000000	0.000000	2147.99	168
2	FID		ACIS-S-5	7.12	5886	1.000	-0.513	0.031	0.019	0.037	0.000000	0.000000	-1819.14	162
3	GUIDE	used	97403088	8.10	11759	1.000	0.045	0.310	0.121	0.237	95.268776	13.907892	1813.13	-1510
4	GUIDE	used	97518408	8.64	11762	1.000	-0.064	-0.216	0.118	0.195	95.938117	14.975208	-453.79	2370
5	GUIDE	used	97528048	7.31	11768	1.000	-0.129	-0.377	0.081	0.131	95.887243	14.041696	2418.54	618
6	GUIDE	used	172375672	8.23	11761	1.000	-0.054	-0.144	0.120	0.209	95.852834	15.101784	-996.08	2326
7	GUIDE	used	97394928	7.63	11770	1.000	0.196	0.437	0.115	0.186	95.069189	14.688502	-988.04	-778

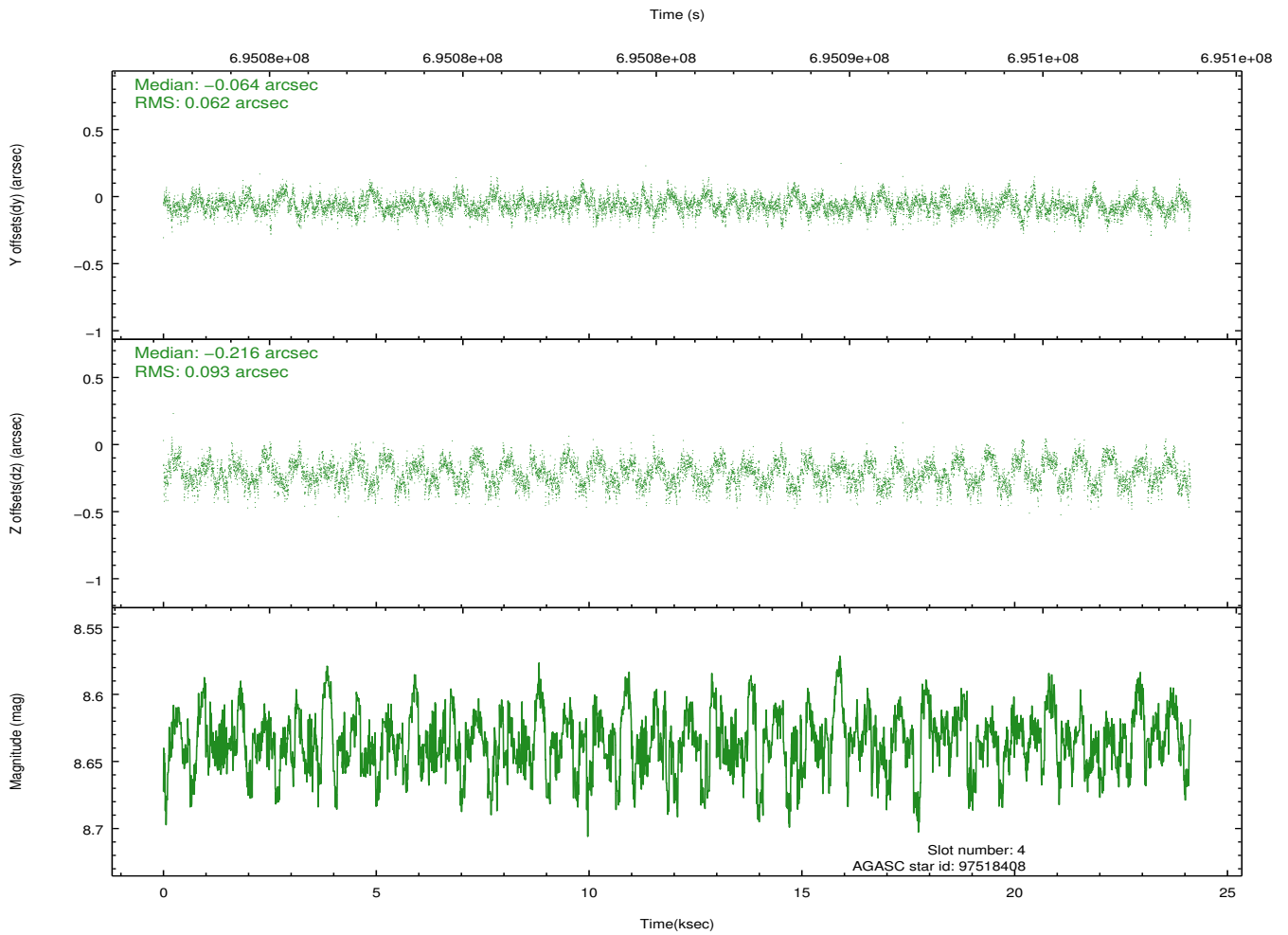
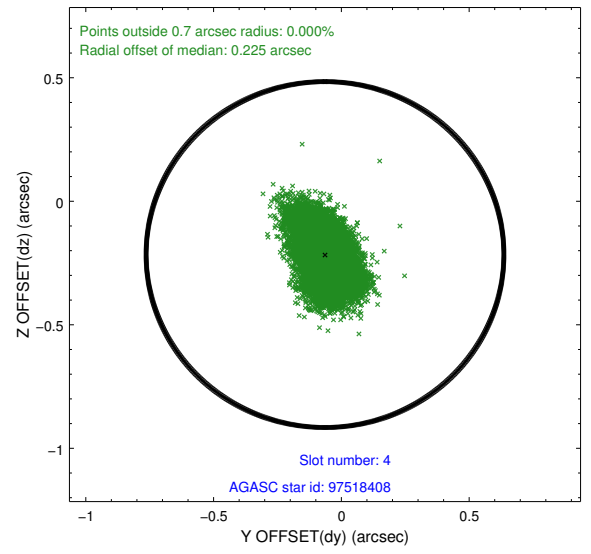
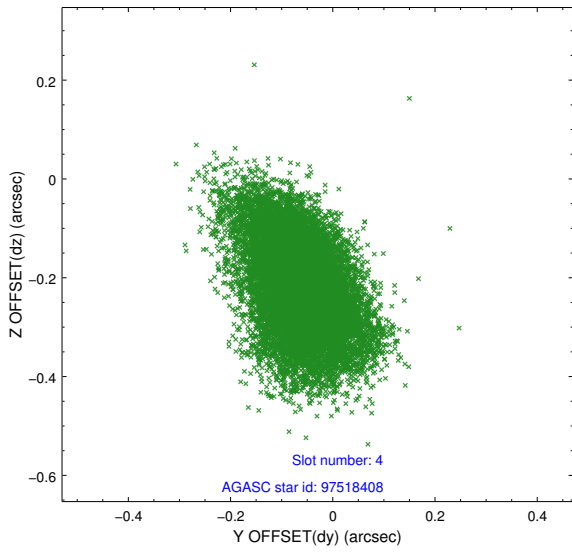
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2.4 Star Slots

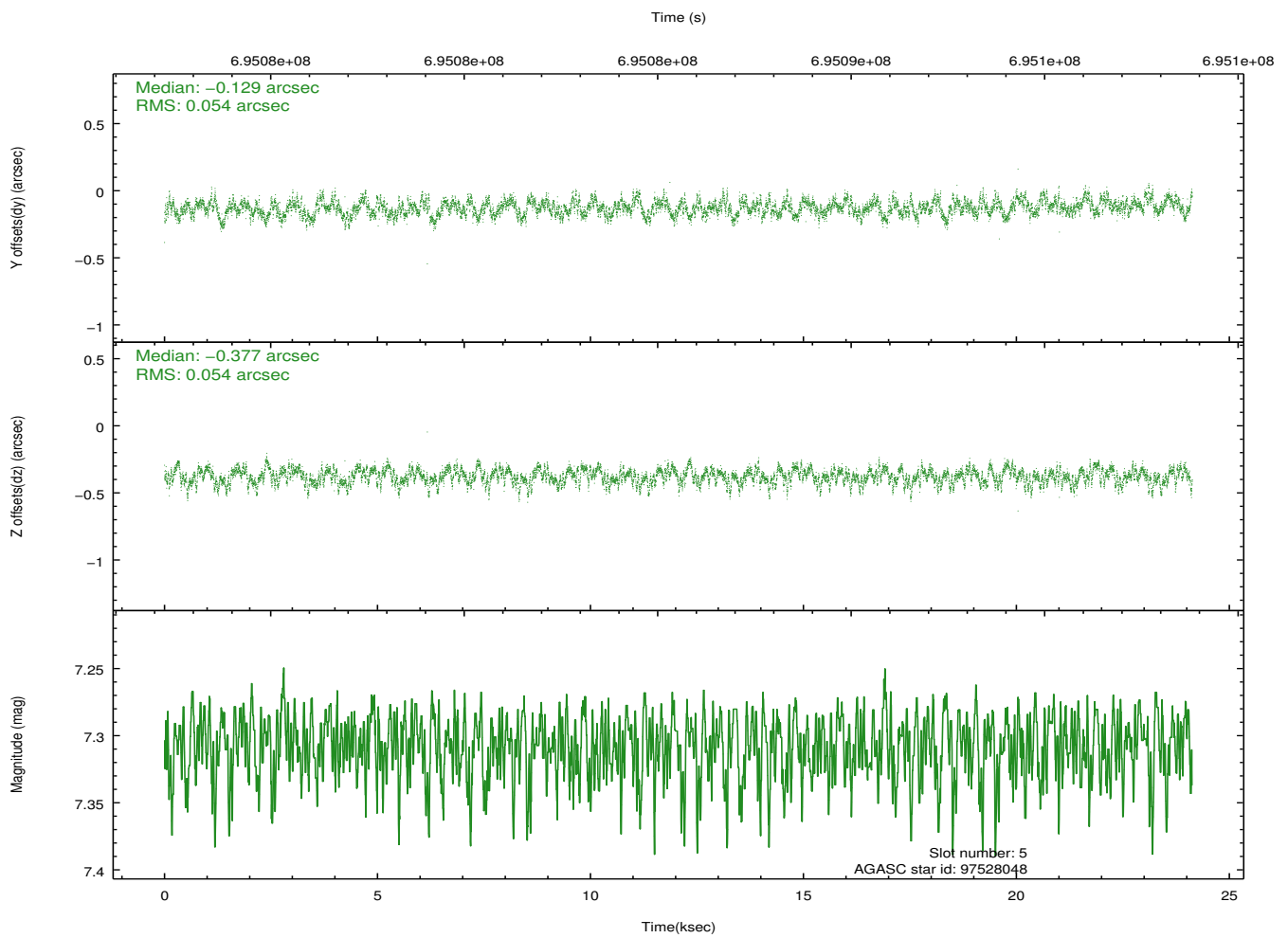
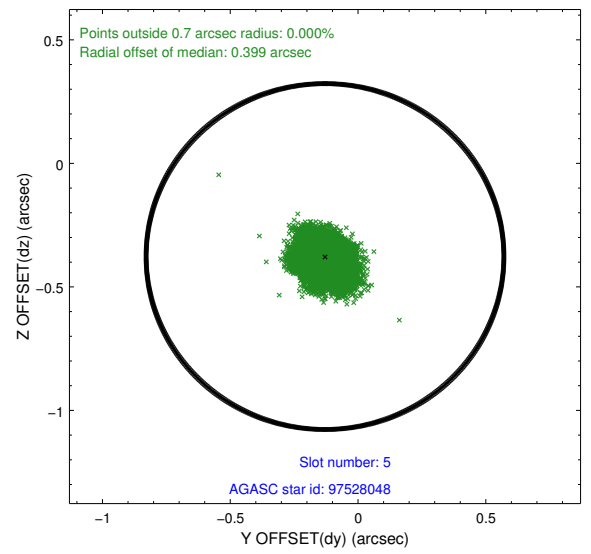
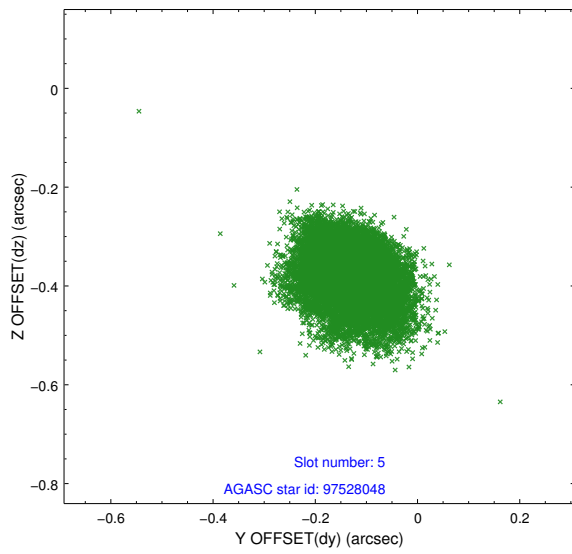
2.4.1 Slot 3



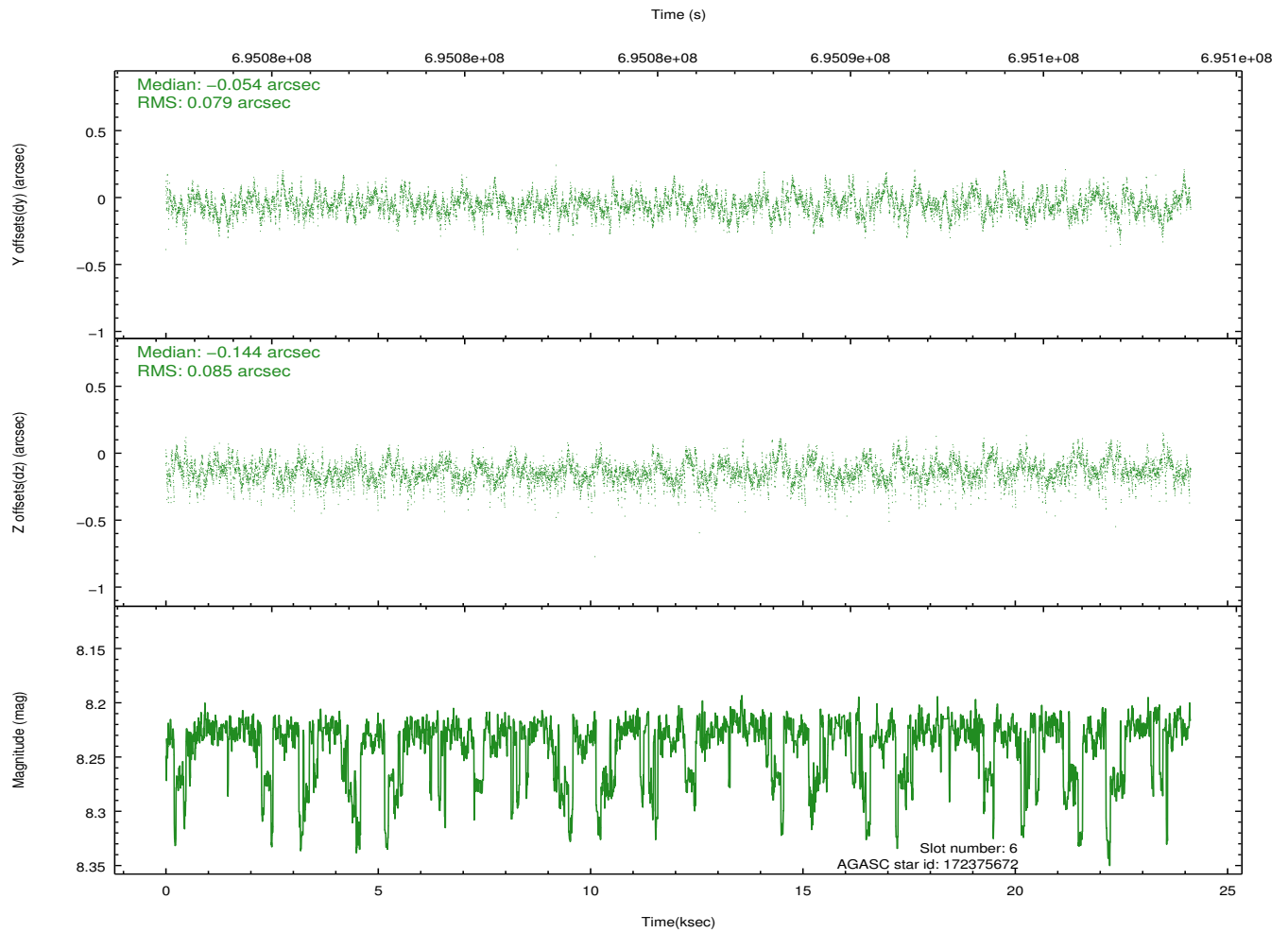
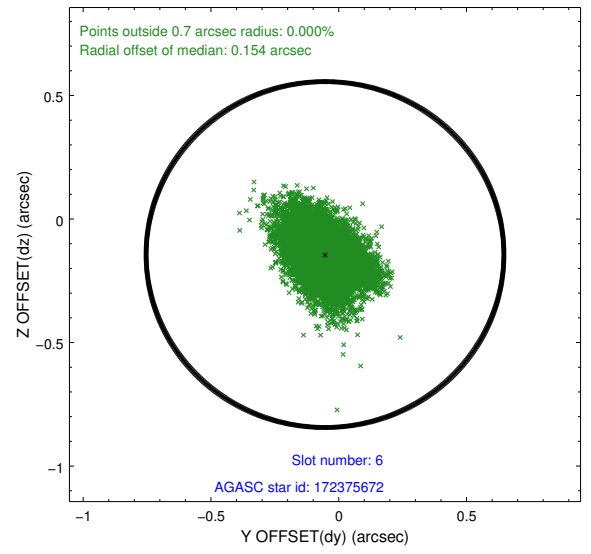
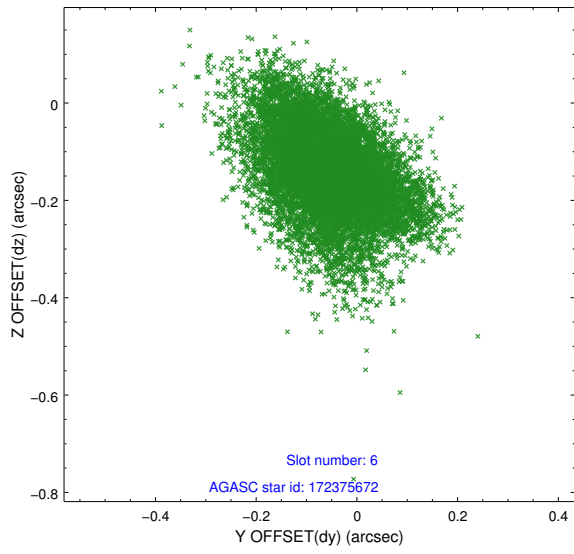
2.4.2 Slot 4



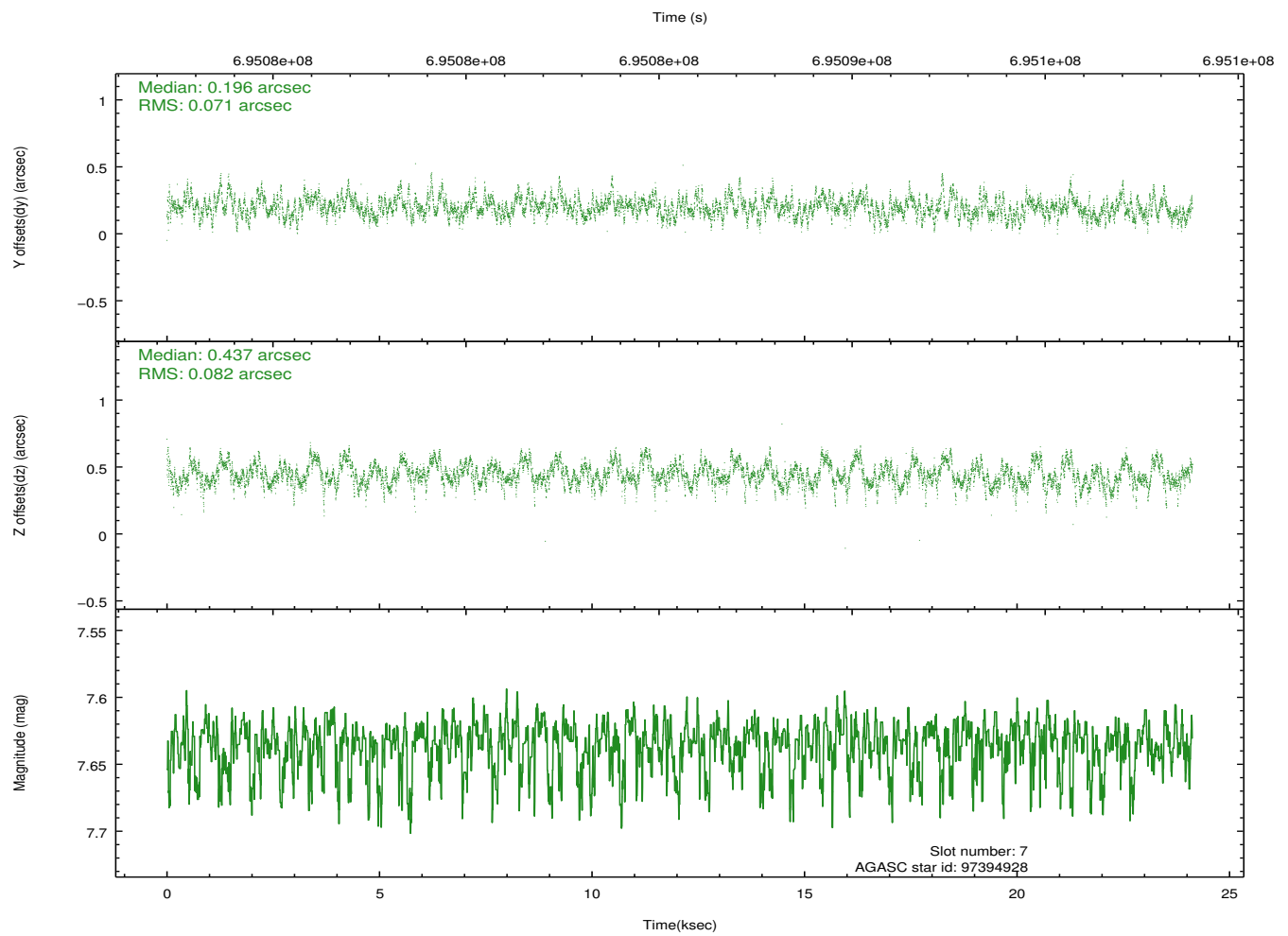
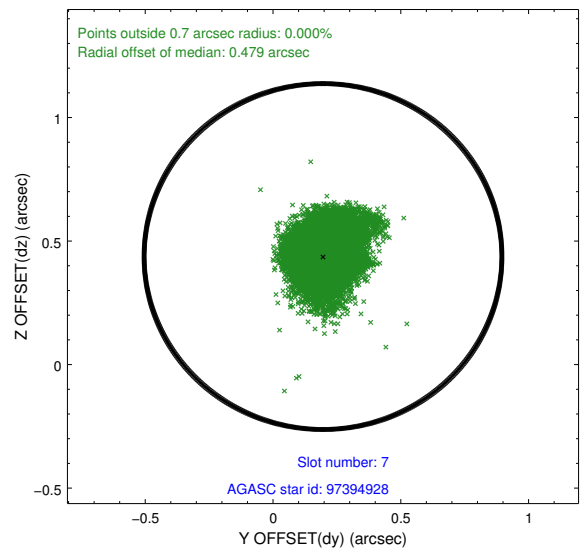
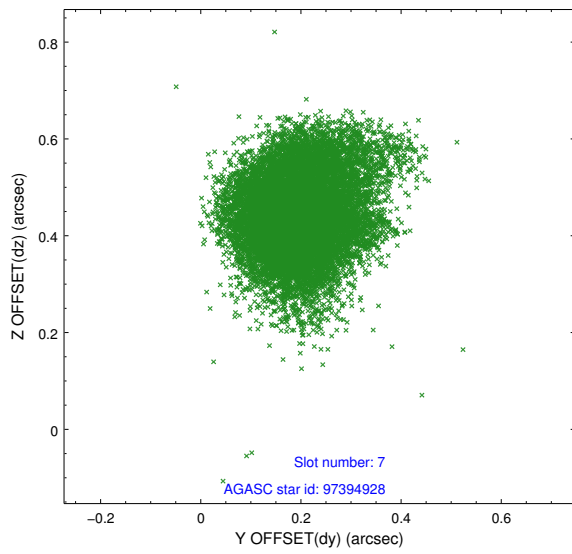
2.4.3 Slot 5



2.4.4 Slot 6

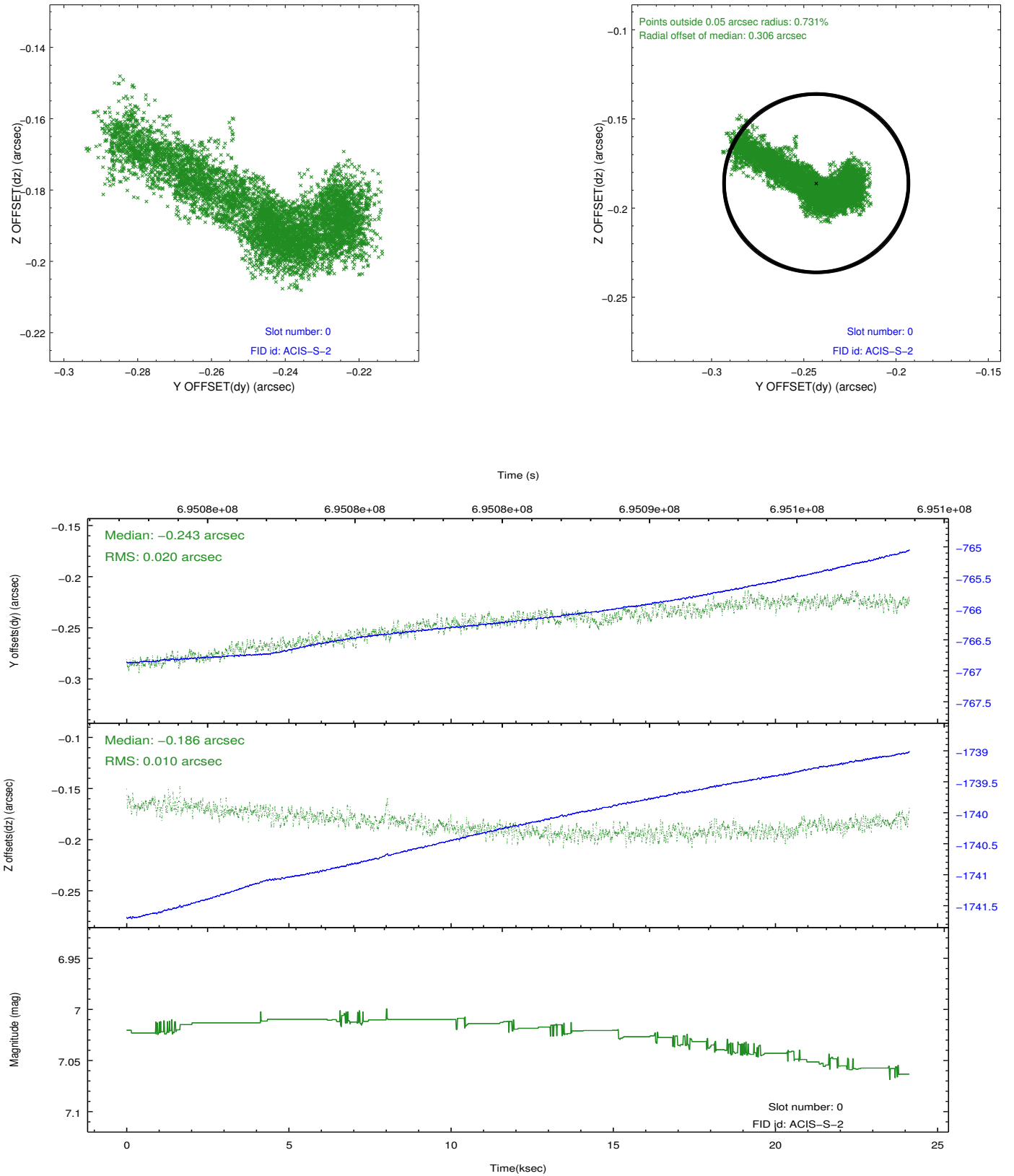


2.4.5 Slot 7

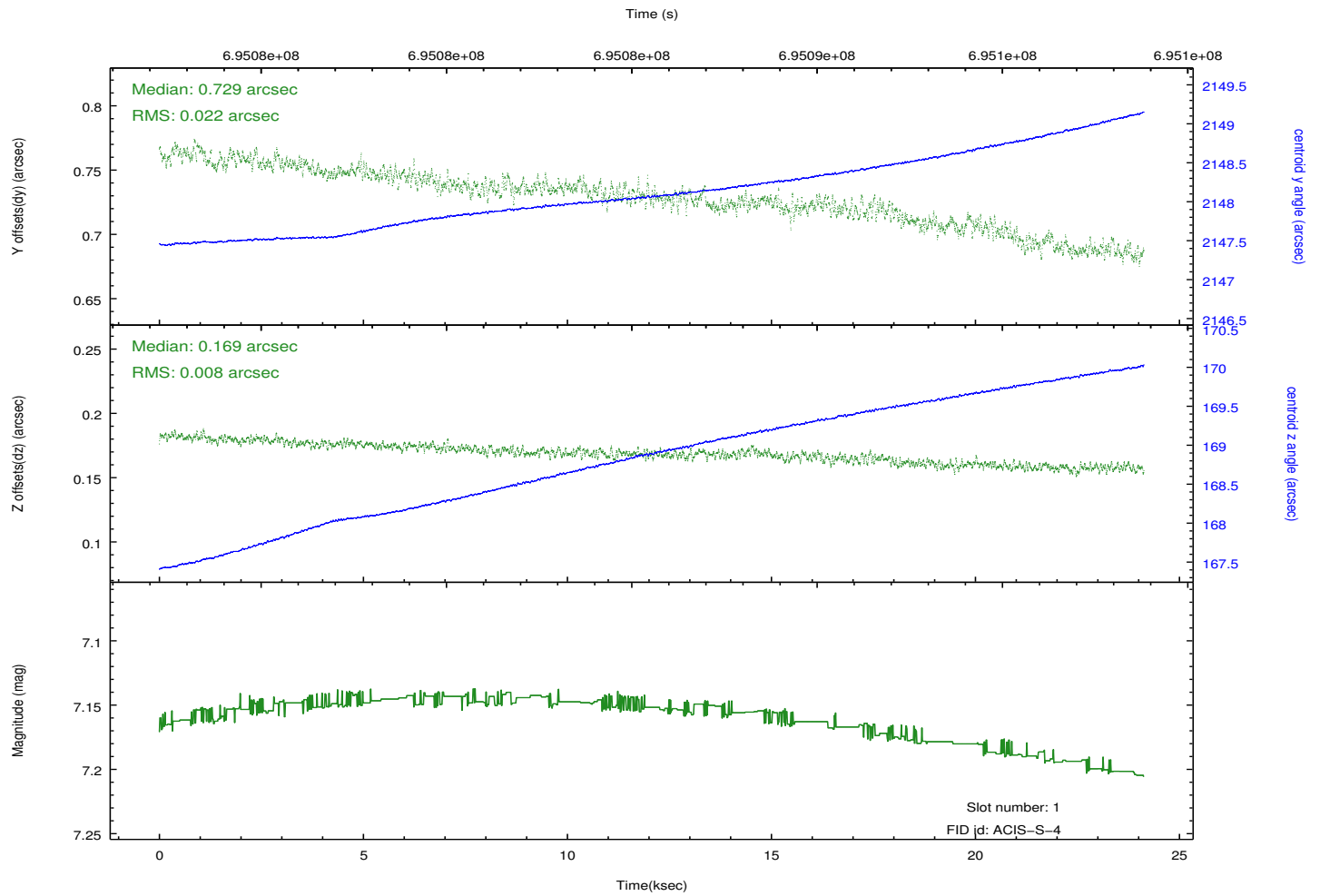
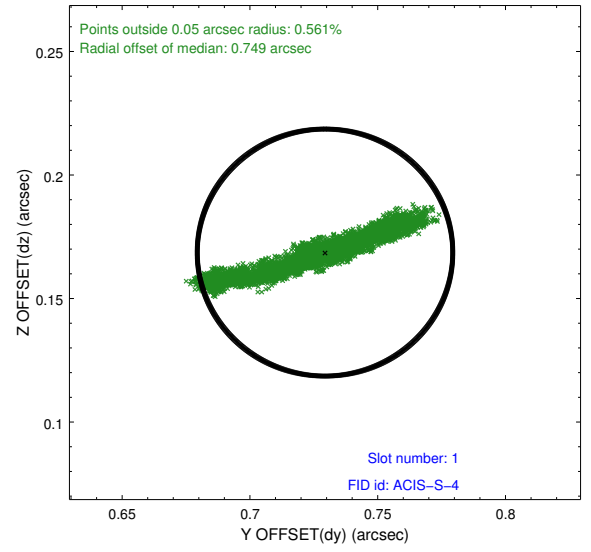
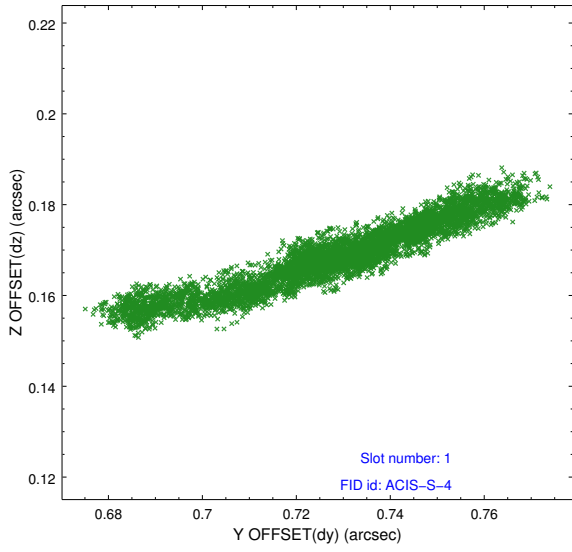


2.5 FID Slots

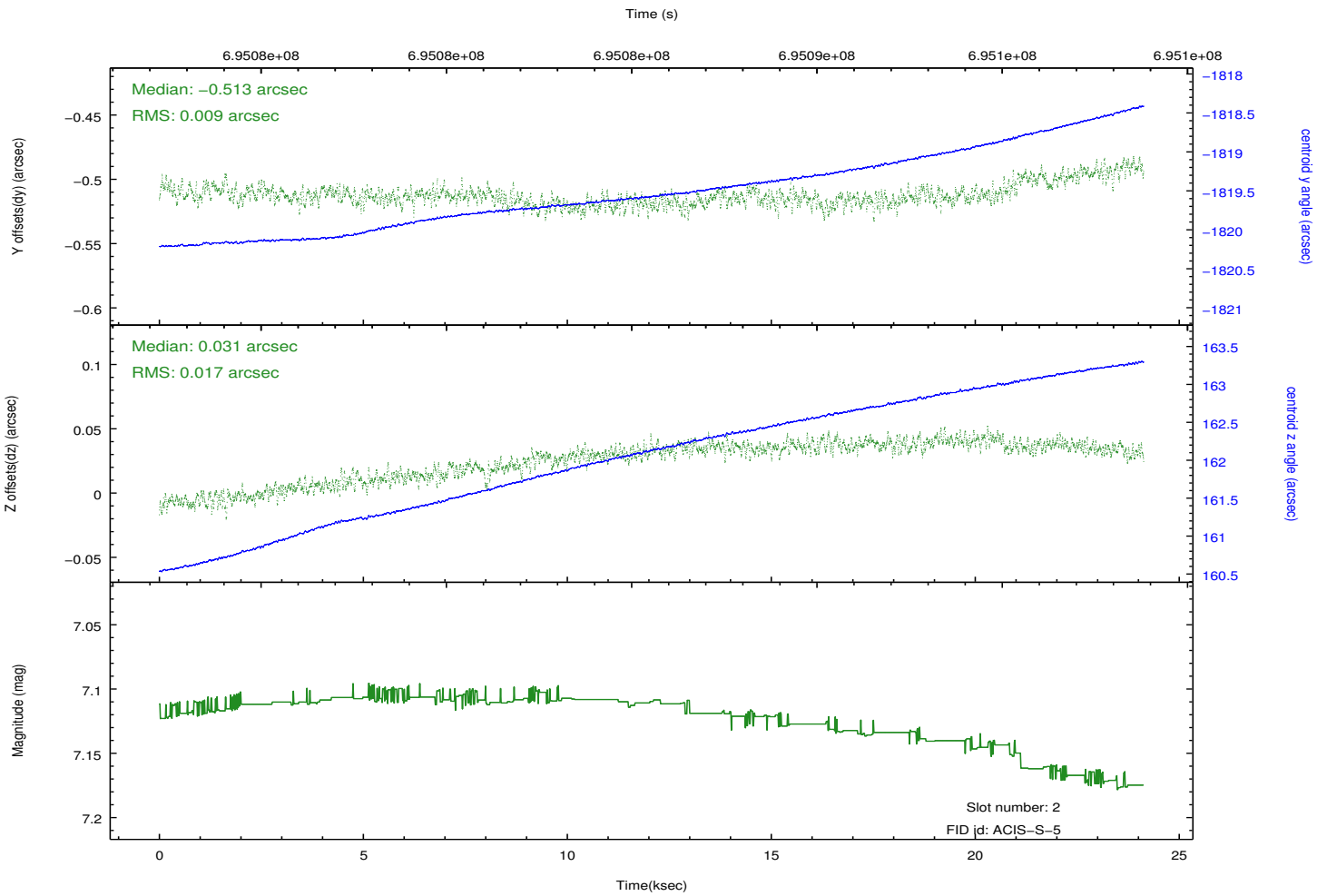
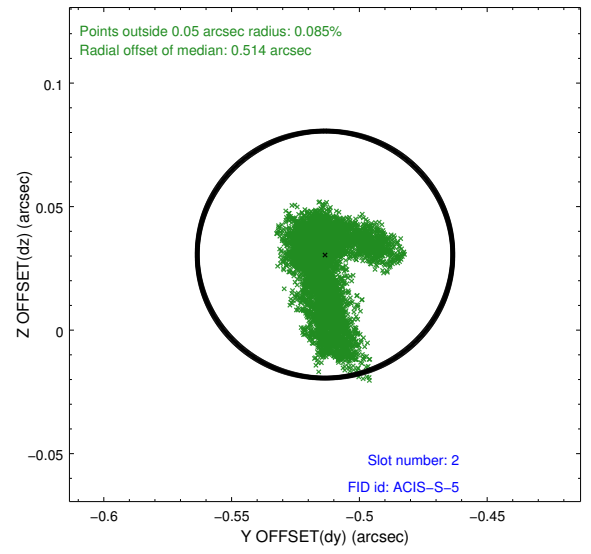
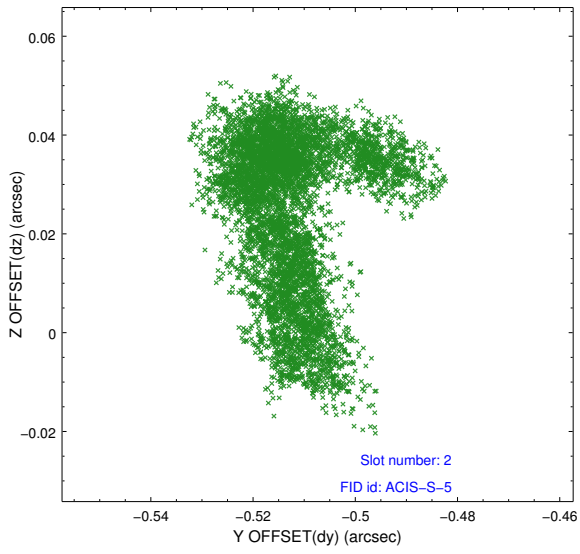
2.5.1 Slot 0



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)	2020.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.067277455449

A.2 Comments