

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18074 - L2 Version 1
Chandra X-Ray Center

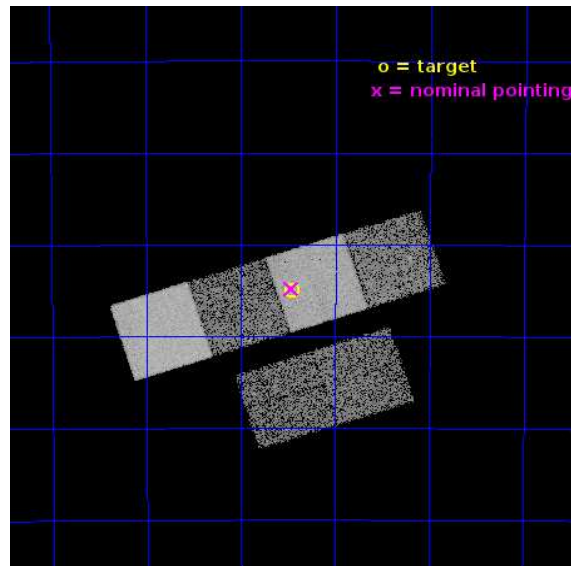
L2 Processing Date : Apr 17 2016

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1 Front

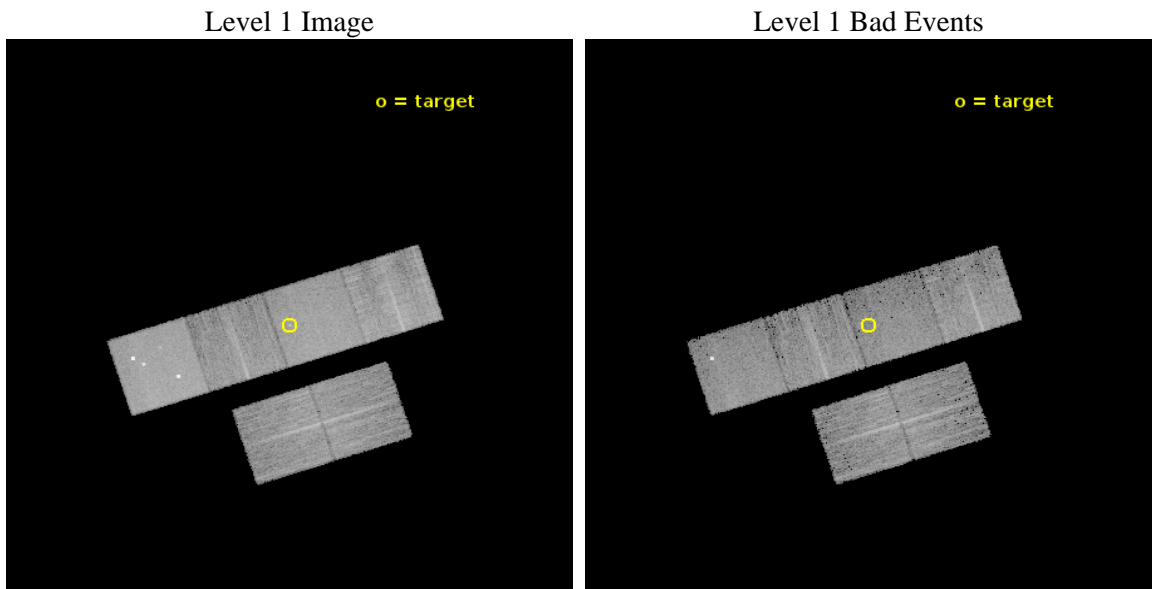
seq_num	901188	Sequence number
obs_id	18074	Observation id
title	Compton-Thick AGN: The Hunt is on	Proposal title
observer	Marco Ajello	Principal investigator
object	NGC 4785	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	193.36375	Observer's specified target RA [deg]
dec_targ	-48.749194	Observer's specified target Dec [deg]
ra_nom	193.3661303371	Nominal RA [deg]
dec_nom	-48.746926486026	Nominal Dec [deg]
roll_nom	342.08894704391	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9947.4800947905	Sum of GTIs [s]
livetime	9821.5191121768	Livetime [s]
ontime2	9947.5211347342	Sum of GTIs [s]
ontime3	9947.356974721	Sum of GTIs [s]
ontime5	9947.4390547276	Sum of GTIs [s]
ontime6	9947.3980147839	Sum of GTIs [s]
ontime7	9947.4800947905	Sum of GTIs [s]
ontime8	9947.3159347773	Sum of GTIs [s]
l2events	101531	Number of level 2 events



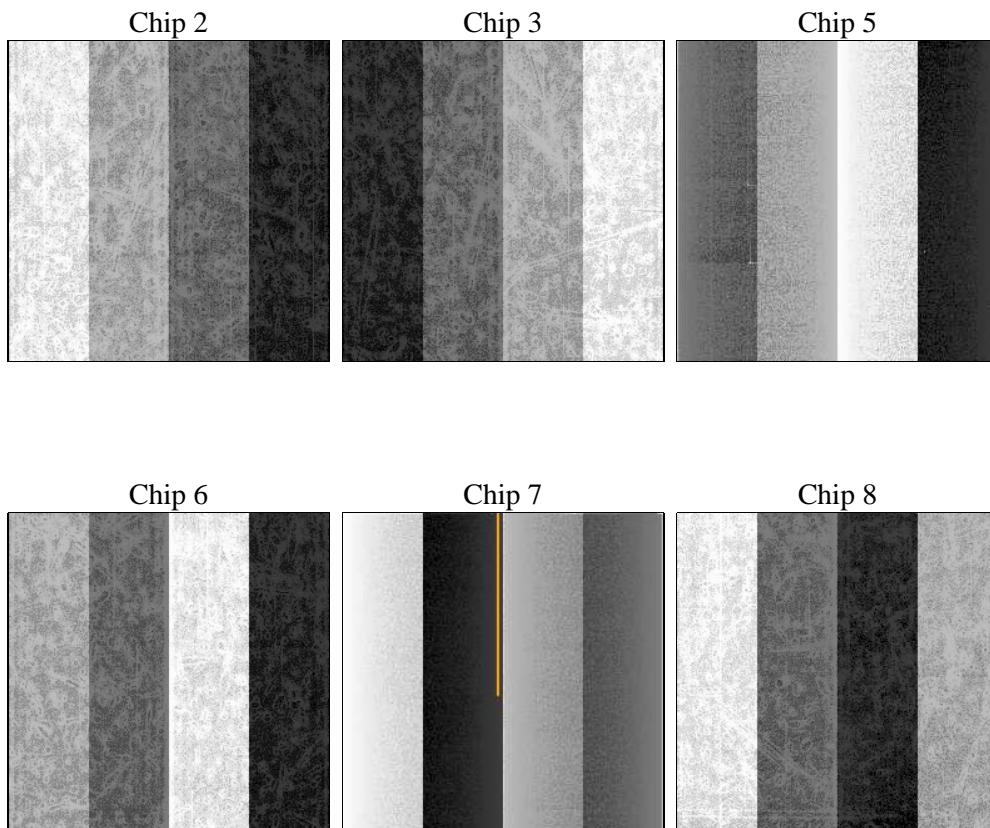
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	9947.4800947905	Sum of GTIs [s]
caldsver	4.7.1	 	ontime2	9947.5211347342	Sum of GTIs [s]
date	2016-04-17T06:29:02	Date and time of file creation	ontime3	9947.356974721	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	9947.4390547276	Sum of GTIs [s]
			ontime6	9947.3980147839	Sum of GTIs [s]
			ontime7	9947.4800947905	Sum of GTIs [s]
			ontime8	9947.3159347773	Sum of GTIs [s]
			l1events	437031	Number of level 1 events

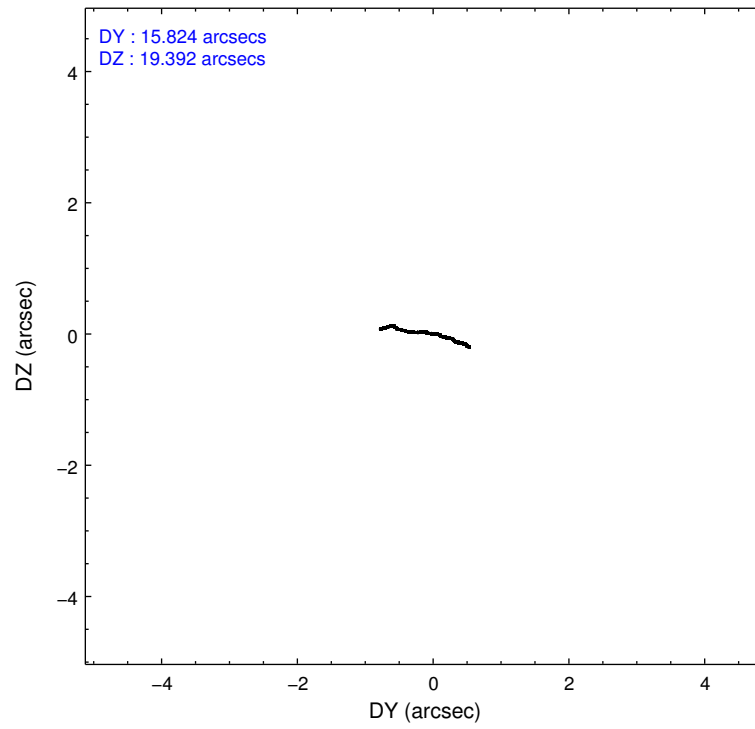
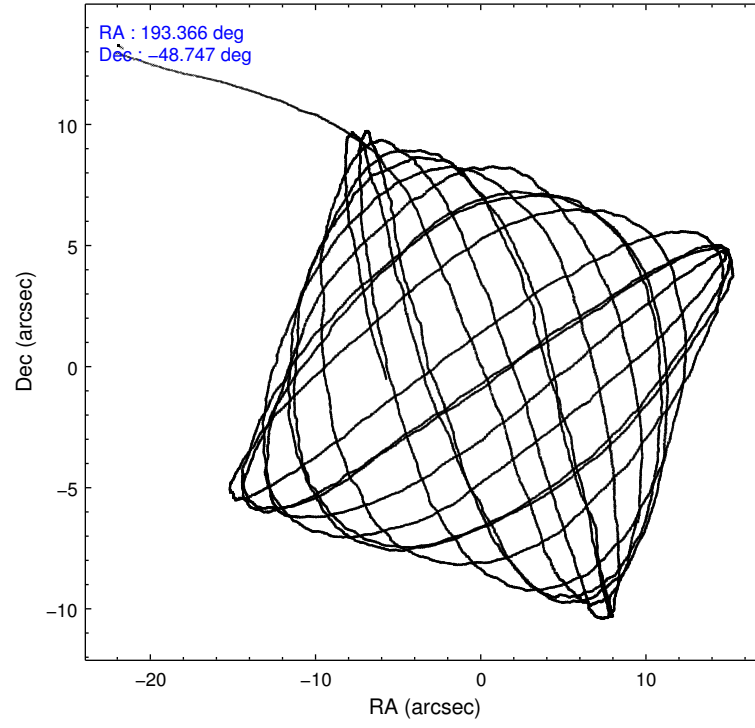
2.1.4 Events

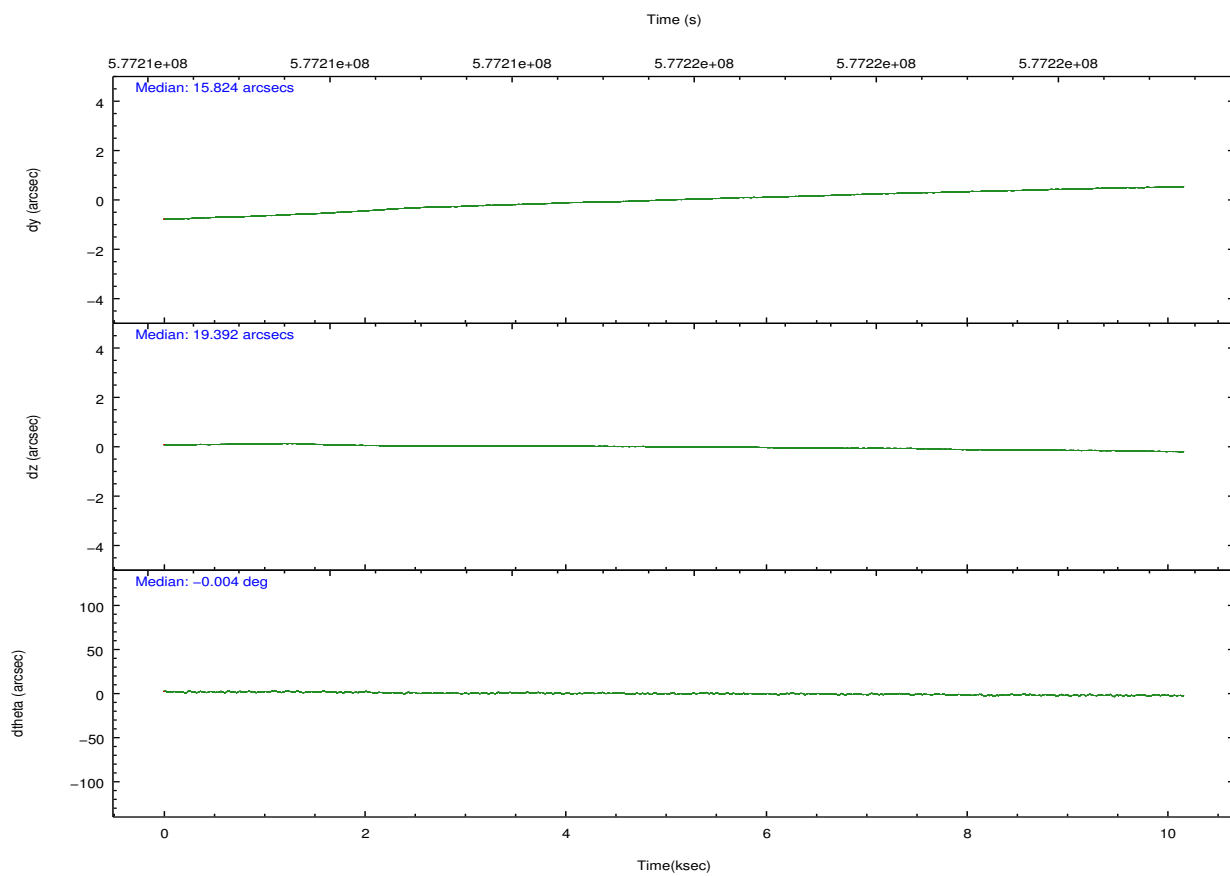
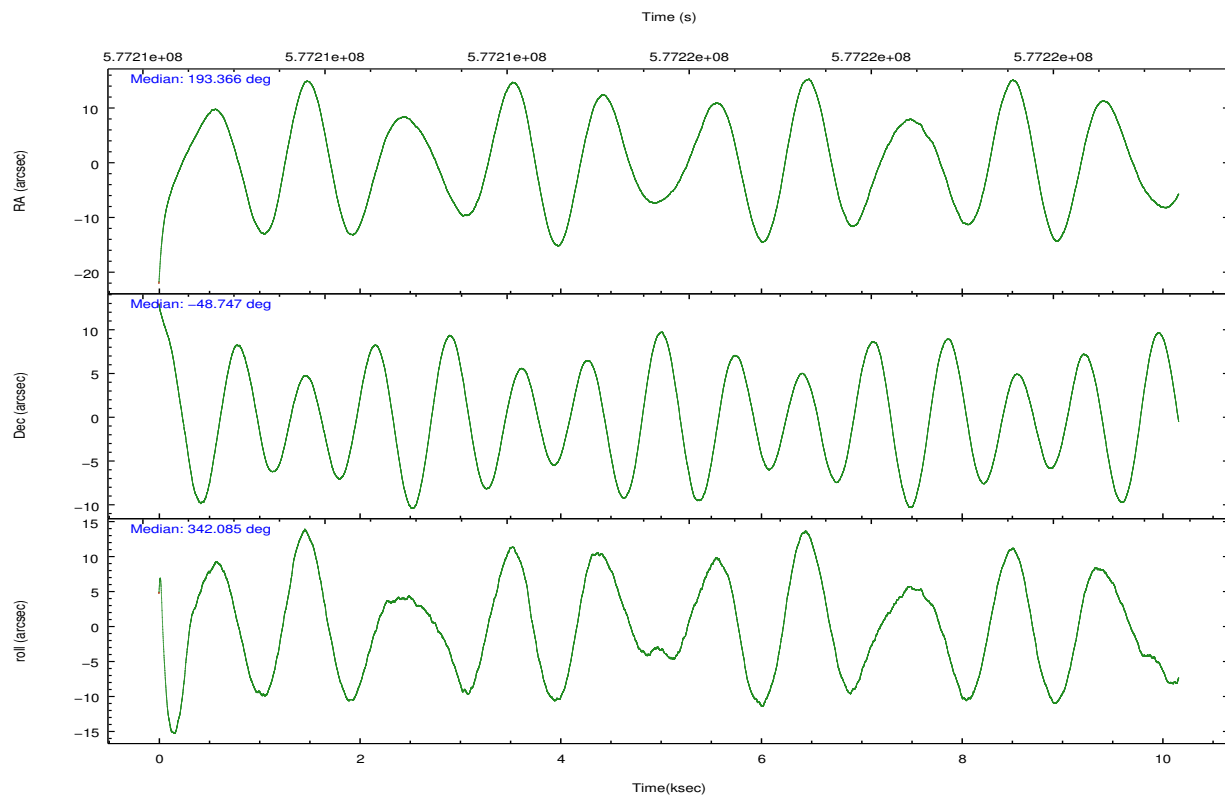
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	60852	58091	100939	59349	78914	78886	grade 0 events	2289	2219	6099	2398	3016	6269
rejected events	54354	51846	51493	52287	44656	57047		3%	3%	6%	4%	3%	7%
rejected %	89%	89%	51%	88%	56%	72%	grade 1 events	40	44	193	18	113	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	1633	1386	15295	1658	7333	5168
								2%	2%	15%	2%	9%	6%
							grade 3 events	643	659	1565	735	2825	2375
								1%	1%	1%	1%	3%	3%
							grade 4 events	667	628	1490	691	2780	2206
								1%	1%	1%	1%	3%	2%
							grade 5 events	2464	2983	7437	2985	8154	4387
								4%	5%	7%	5%	10%	5%
							grade 6 events	1273	1356	25020	1583	18330	5830
								2%	2%	24%	2%	23%	7%
							grade 7 events	51843	48816	43840	49281	36363	52583
								85%	84%	43%	83%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	193.325582	193.3661303371019	CCD I2 on	O4	Y
[deg] Pointing Dec	-48.753080	-48.74692648602561	CCD I3 on	O3	Y
[deg] Pointing Roll	341.901783	342.0889470439146	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	577210846.184000	577209881.35023	CCD S5 on	N	N
Observation start date	2016-04-16T16:19:38	2016-04-16T16:04:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	577220846.184000	577222333.56344	On-chip summing requested	N	N
Observation end date	2016-04-16T19:06:18	2016-04-16T19:32:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



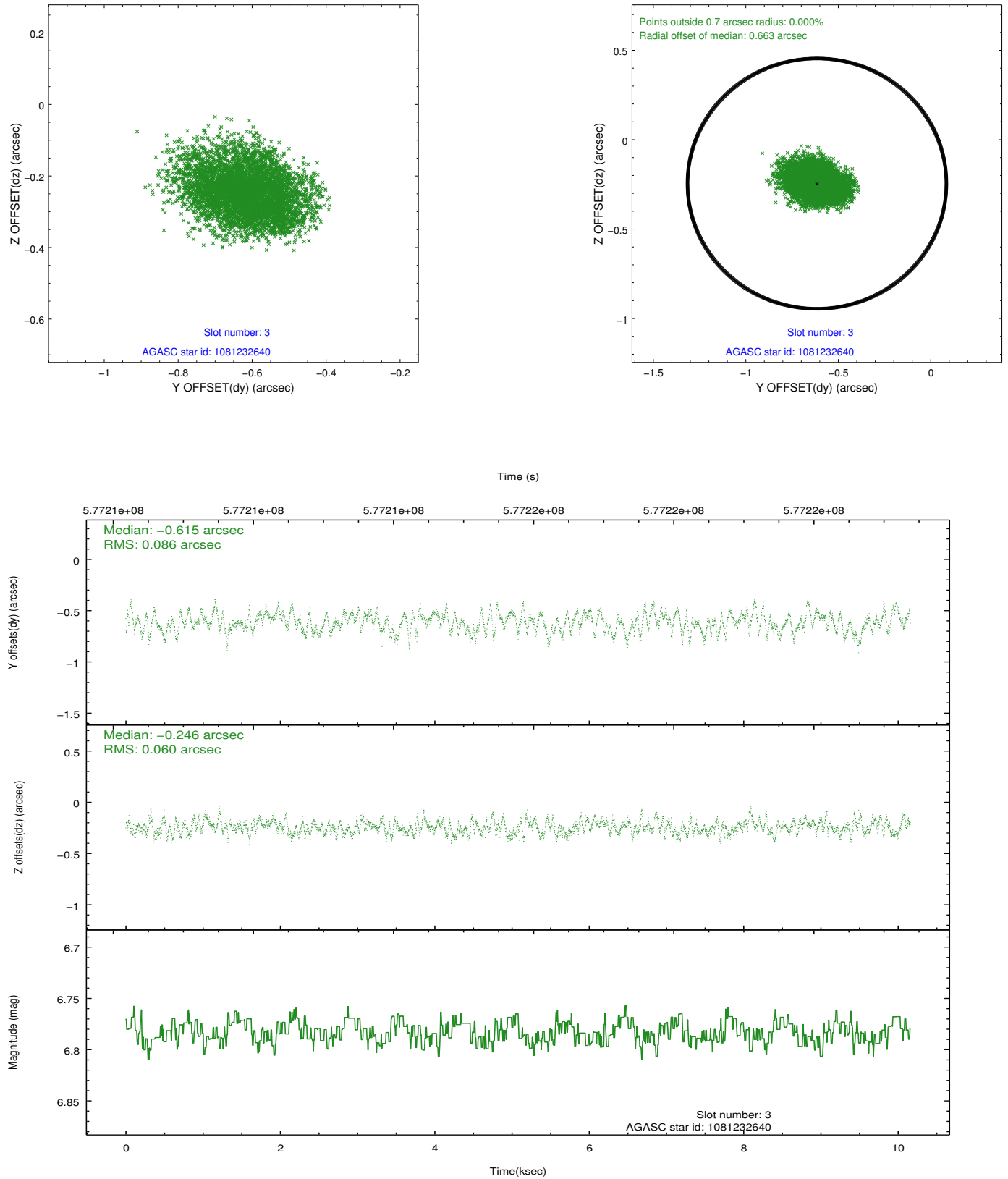


Slot Statistics

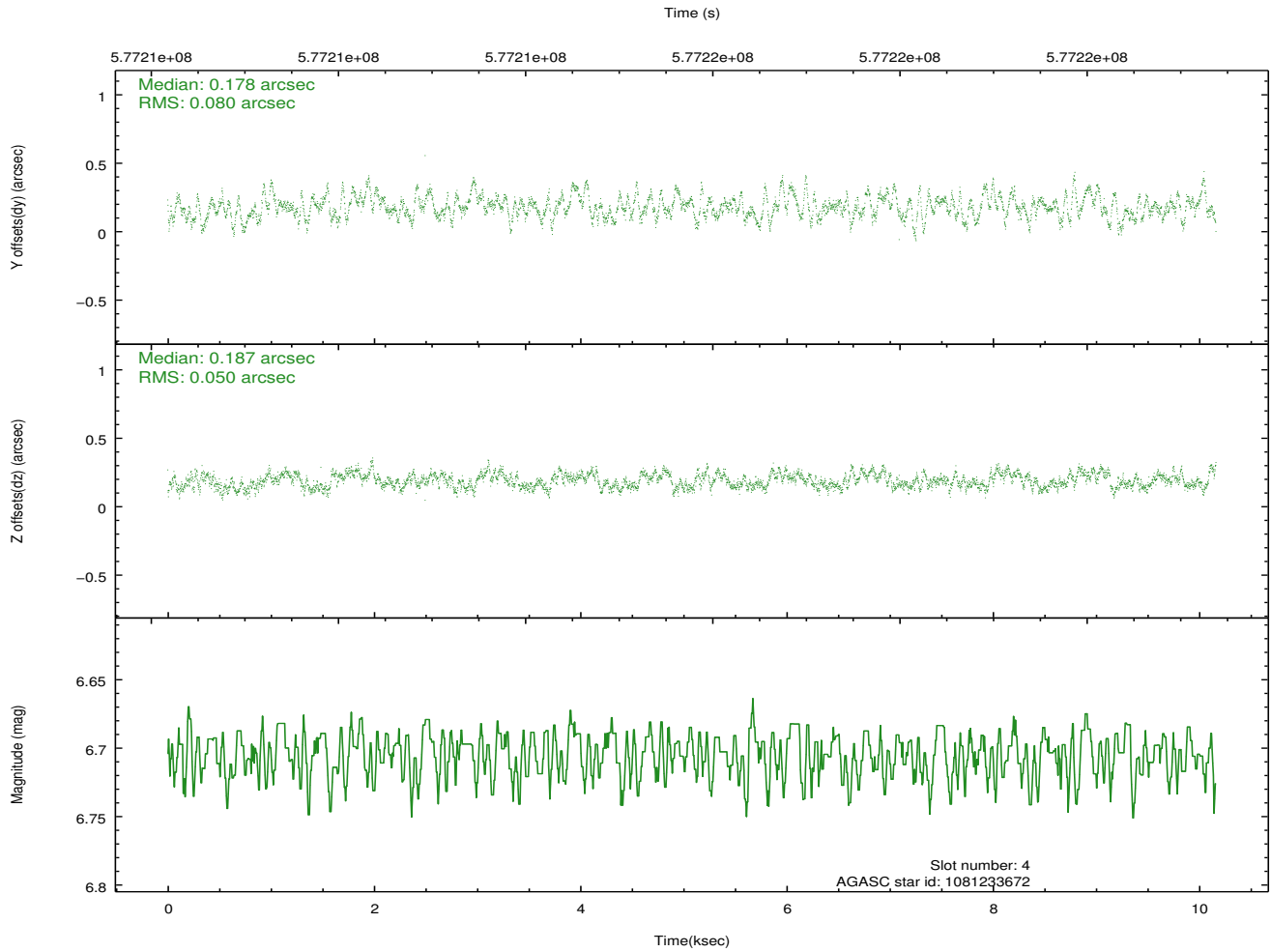
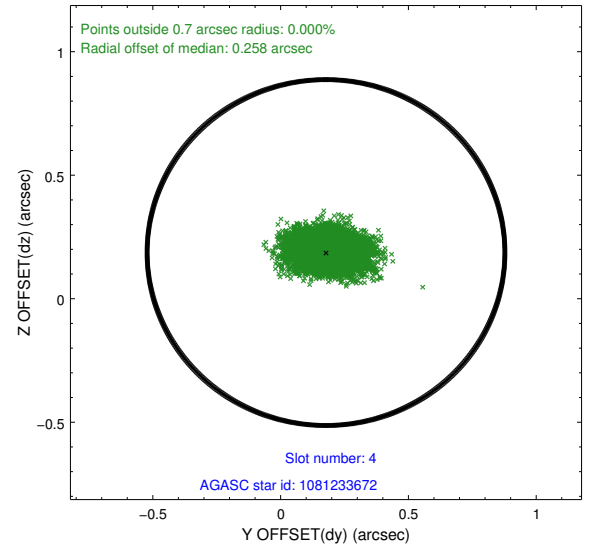
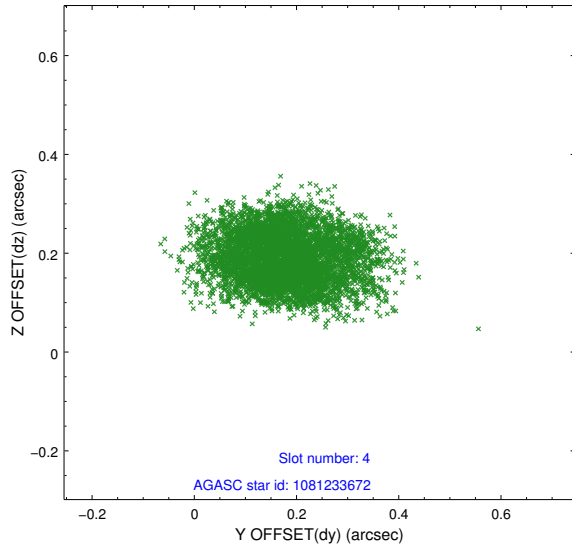
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.20	2479	0.177	0.026	0.009	0.015	0.000000	0.000000	927.40	-1736.44
1	FID		ACIS-S-2	7.11	2479	-0.246	-0.111	0.007	0.011	0.000000	0.000000	-768.64	-1741.63
2	FID		ACIS-S-6	7.36	2479	0.048	0.089	0.009	0.015	0.000000	0.000000	392.74	804.43
3	GUIDE	used	1081232640	6.78	4957	-0.615	-0.246	0.113	0.182	193.022626	-48.094284	-1429.24	2026.27
4	GUIDE	used	1081233672	6.70	4958	0.178	0.187	0.099	0.165	192.581189	-48.459543	-2015.38	444.40
5	GUIDE	used	1081344176	8.89	4957	0.102	-0.150	0.199	0.303	194.150206	-48.309927	1384.32	2119.65
6	GUIDE	used	1081739616	9.00	4952	0.105	0.380	0.092	0.150	192.874670	-48.784112	-980.26	-440.80
7	GUIDE	used	1081877872	8.92	4954	0.244	-0.184	0.154	0.243	194.262434	-48.917631	2294.81	111.85

2.4 Star Slots

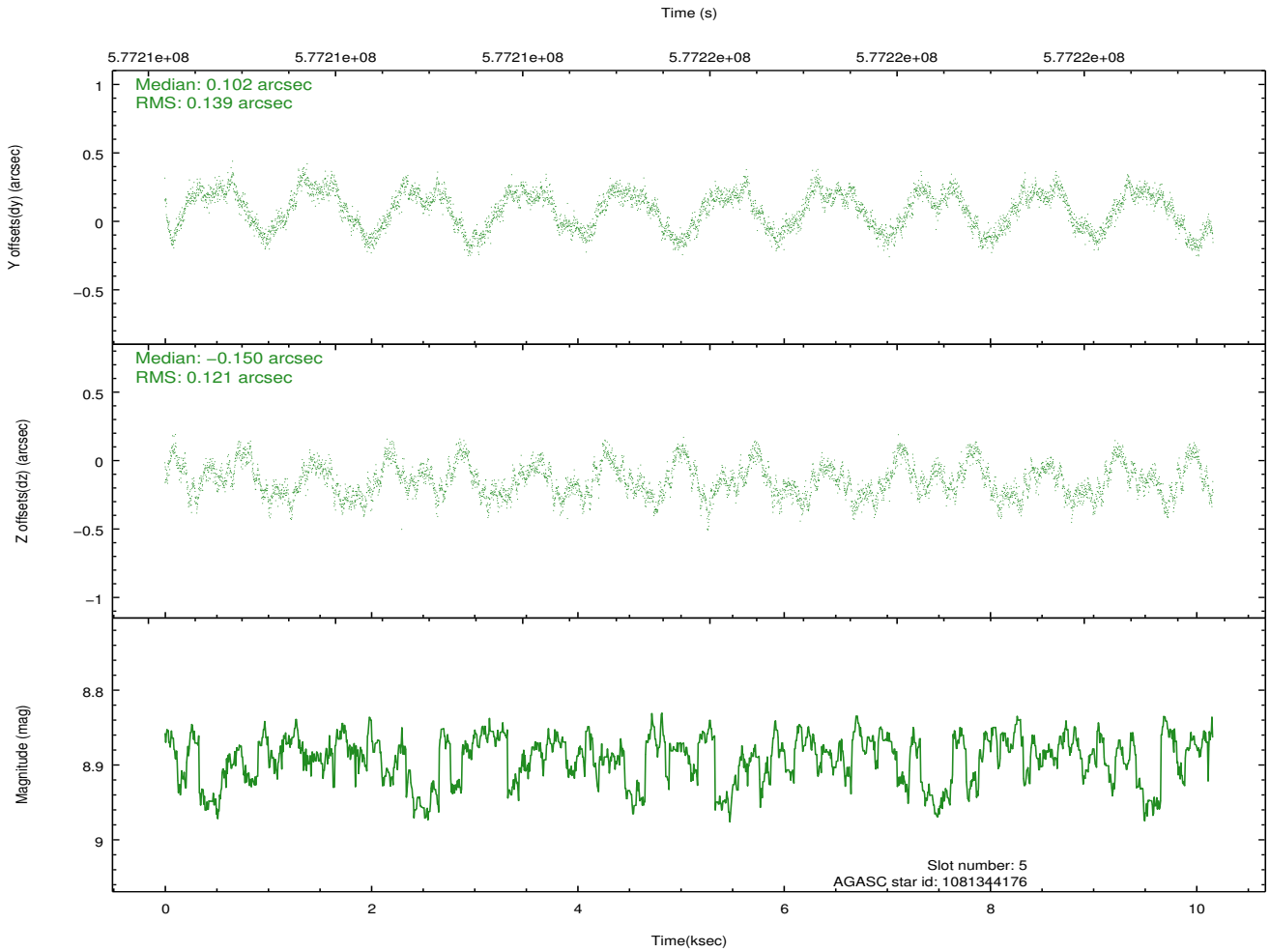
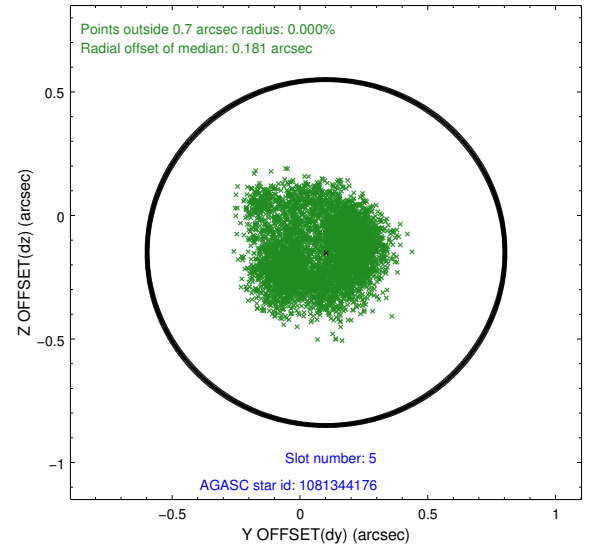
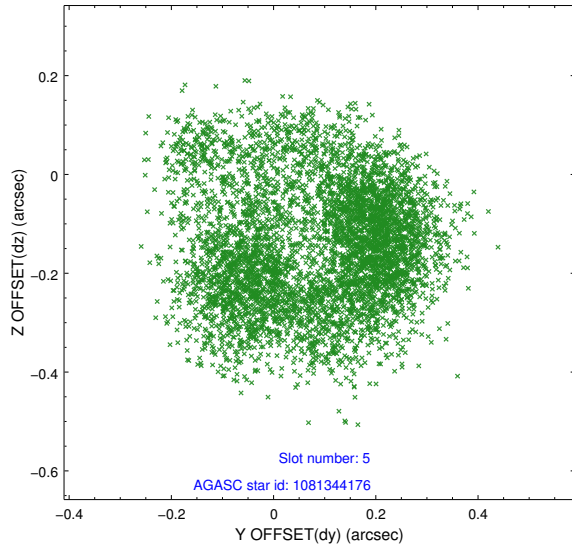
2.4.1 Slot 3



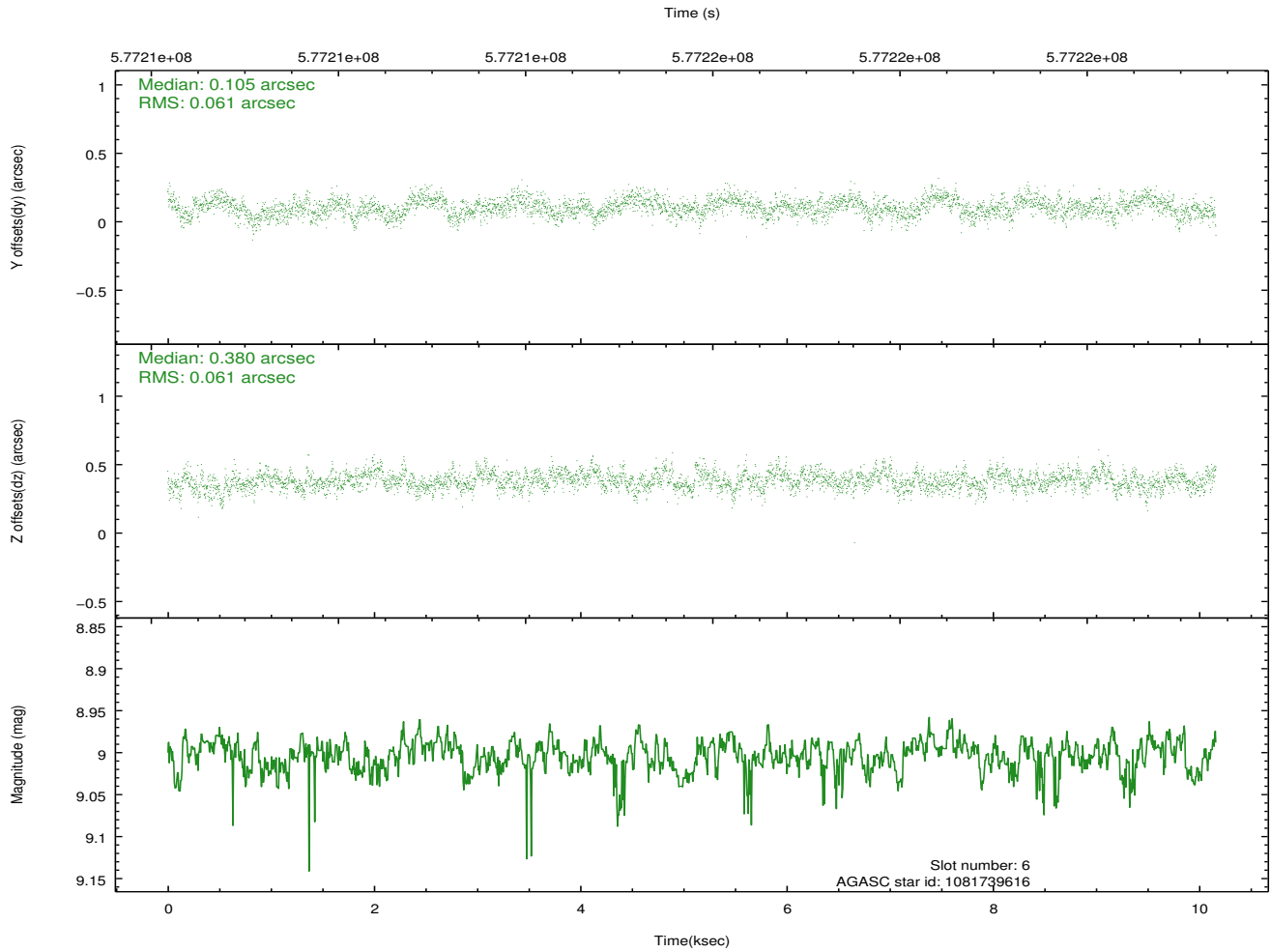
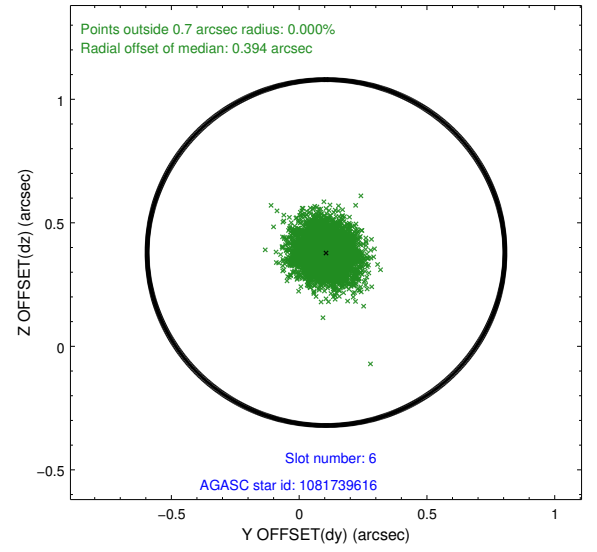
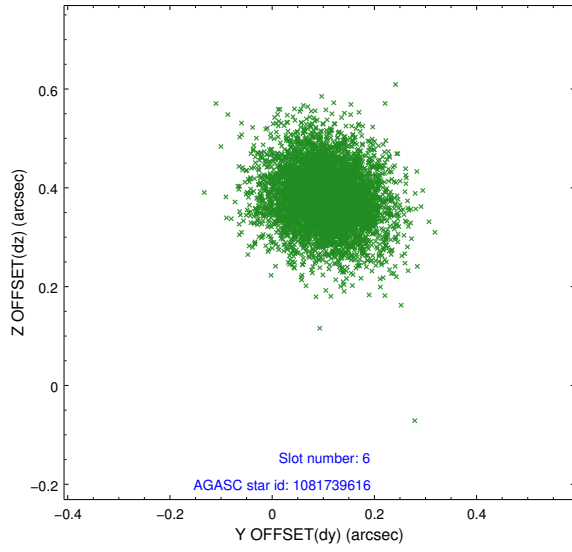
2.4.2 Slot 4



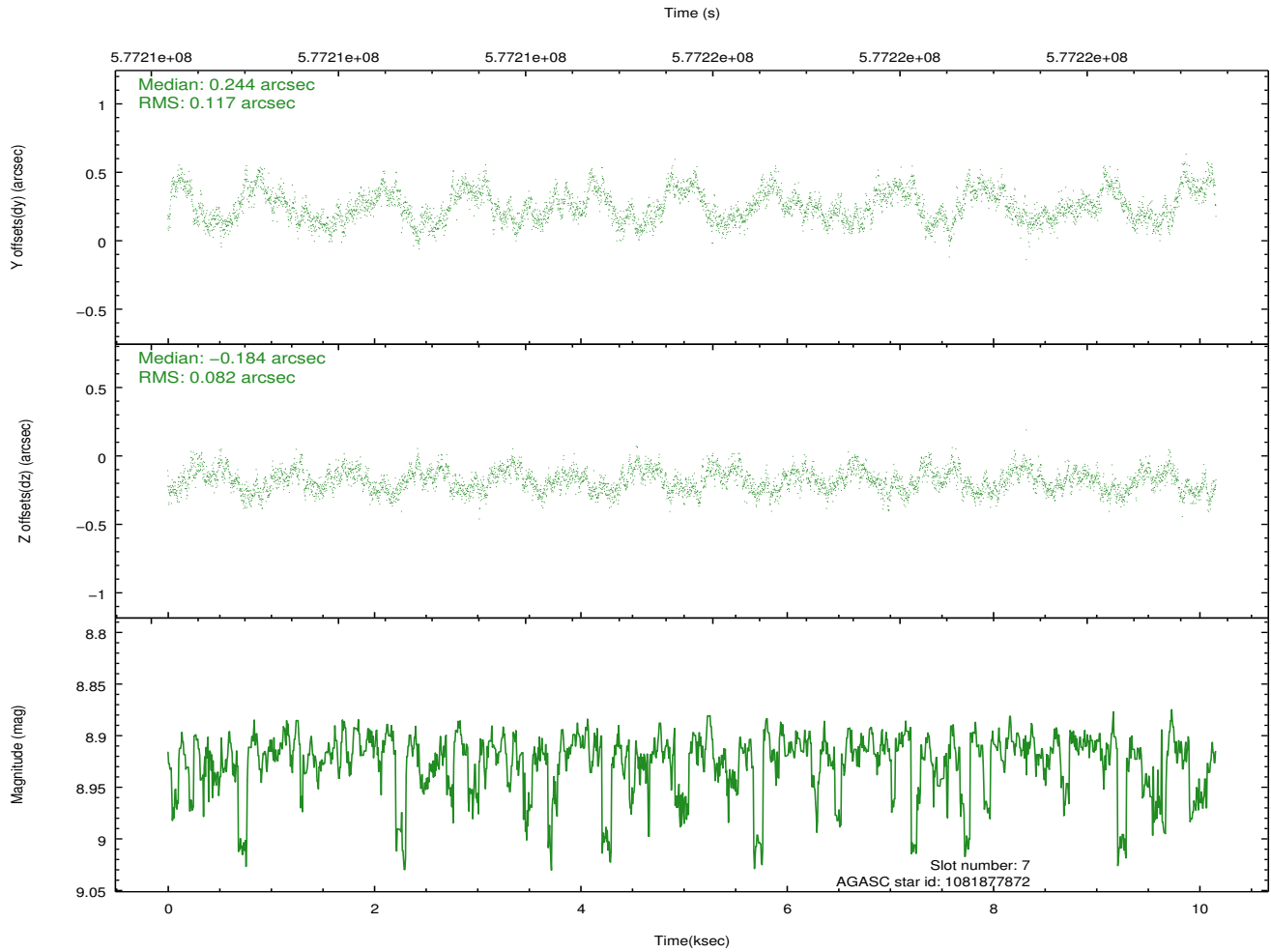
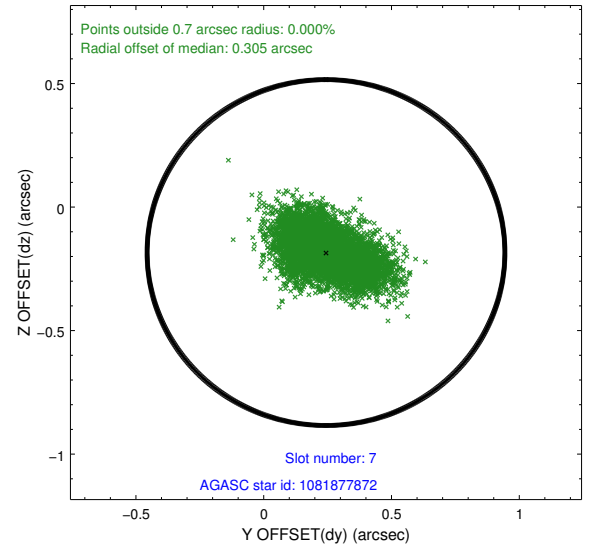
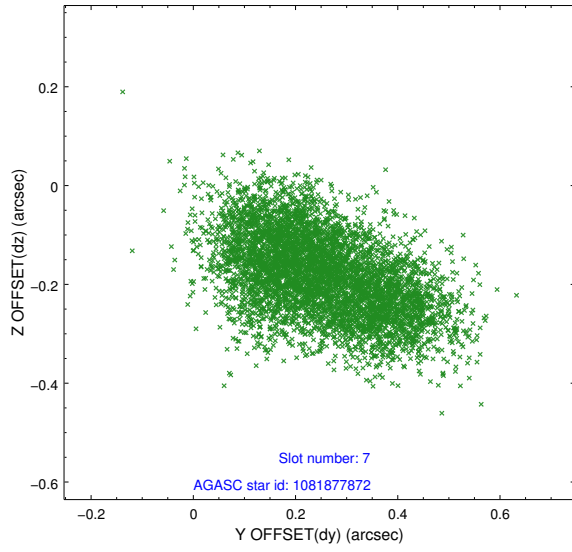
2.4.3 Slot 5



2.4.4 Slot 6

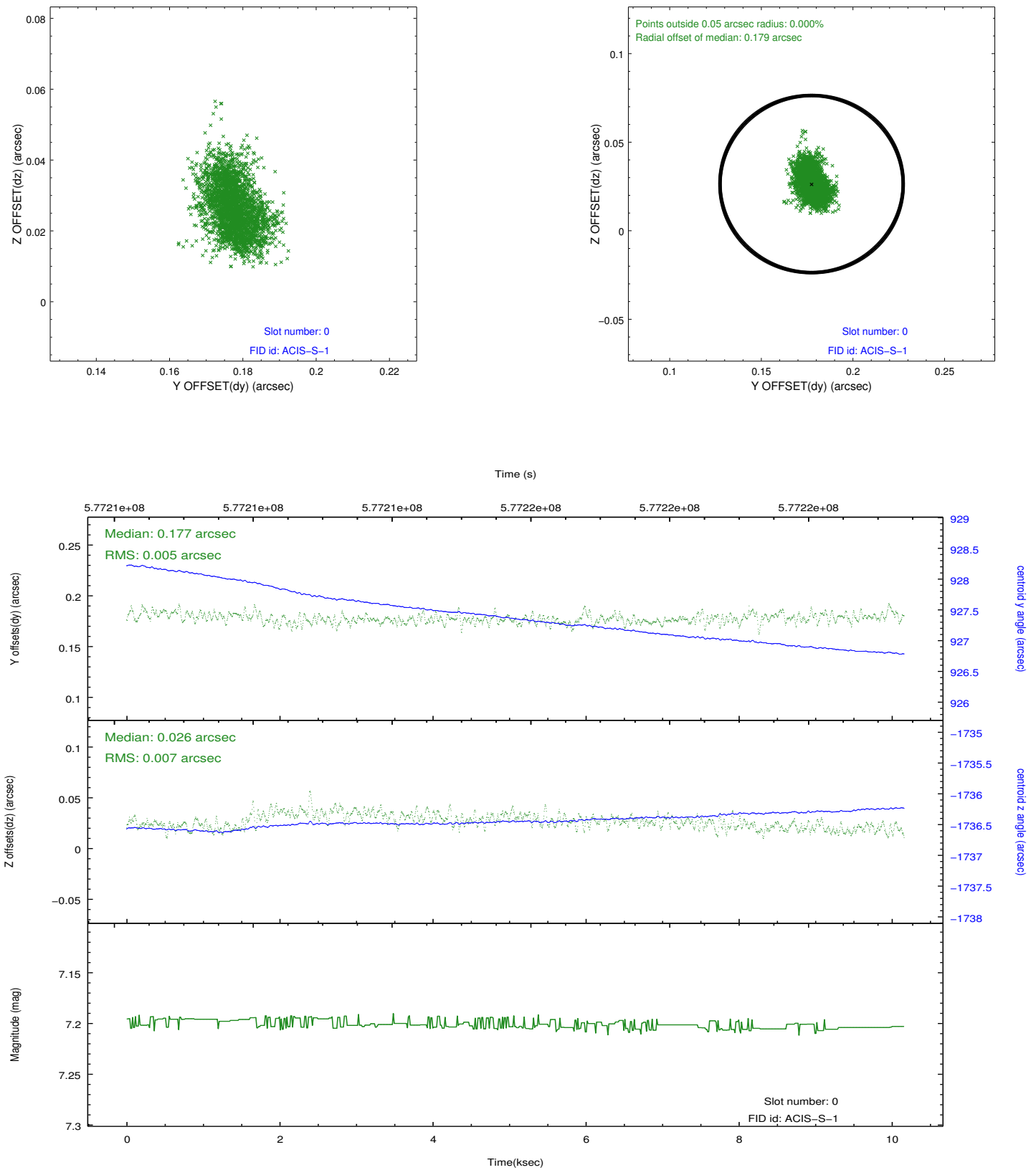


2.4.5 Slot 7

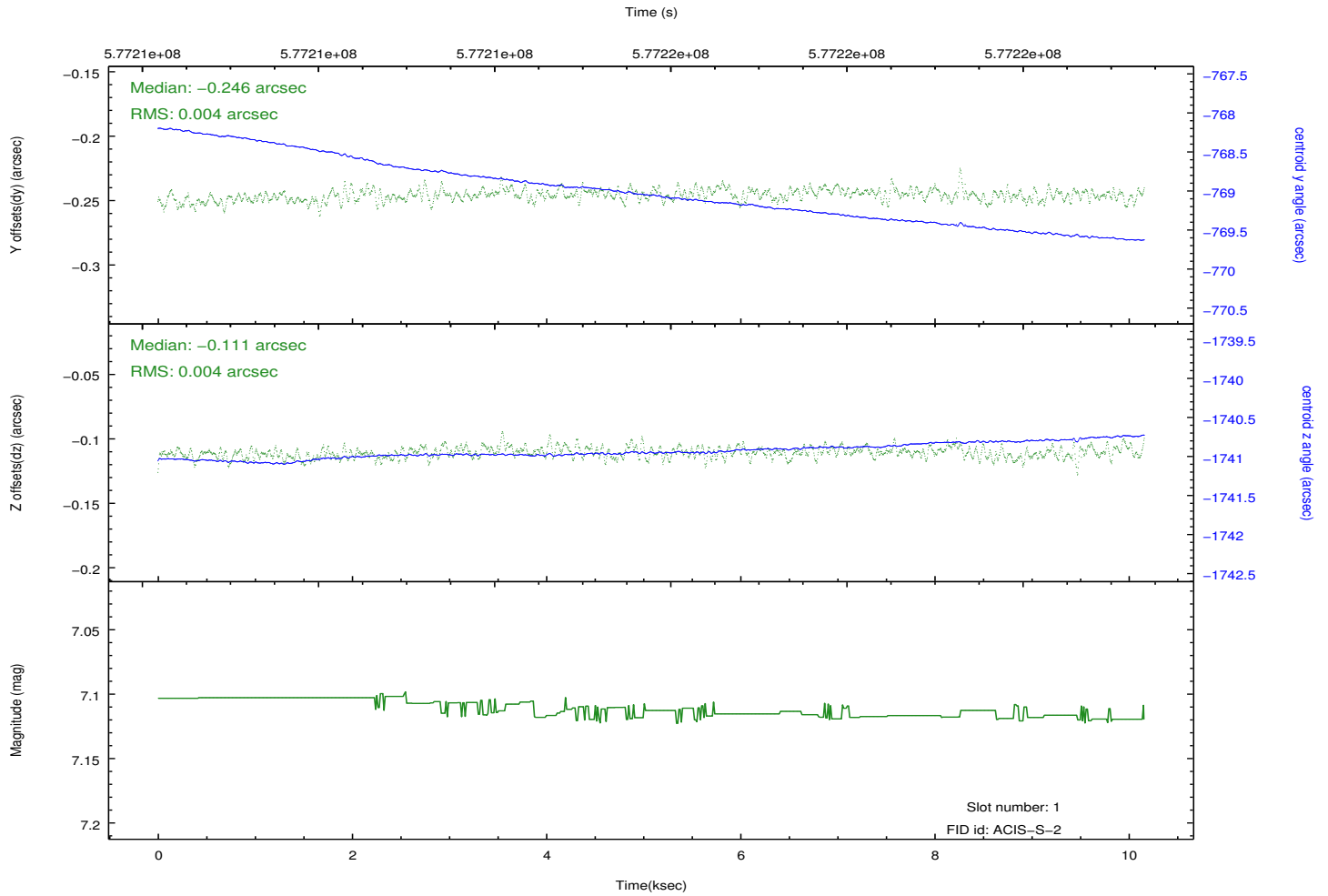
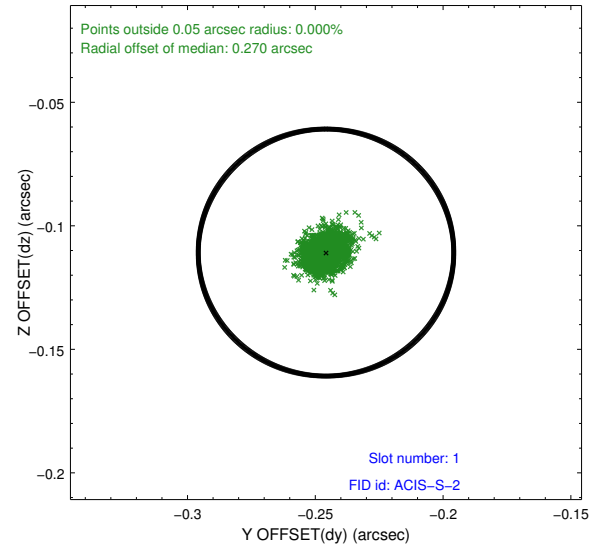
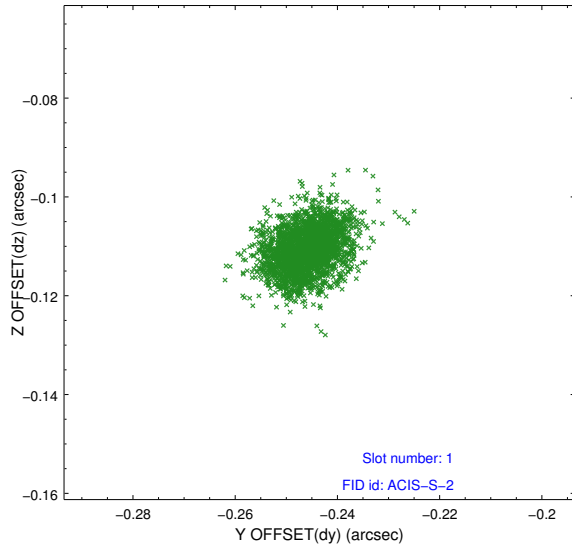


2.5 FID Slots

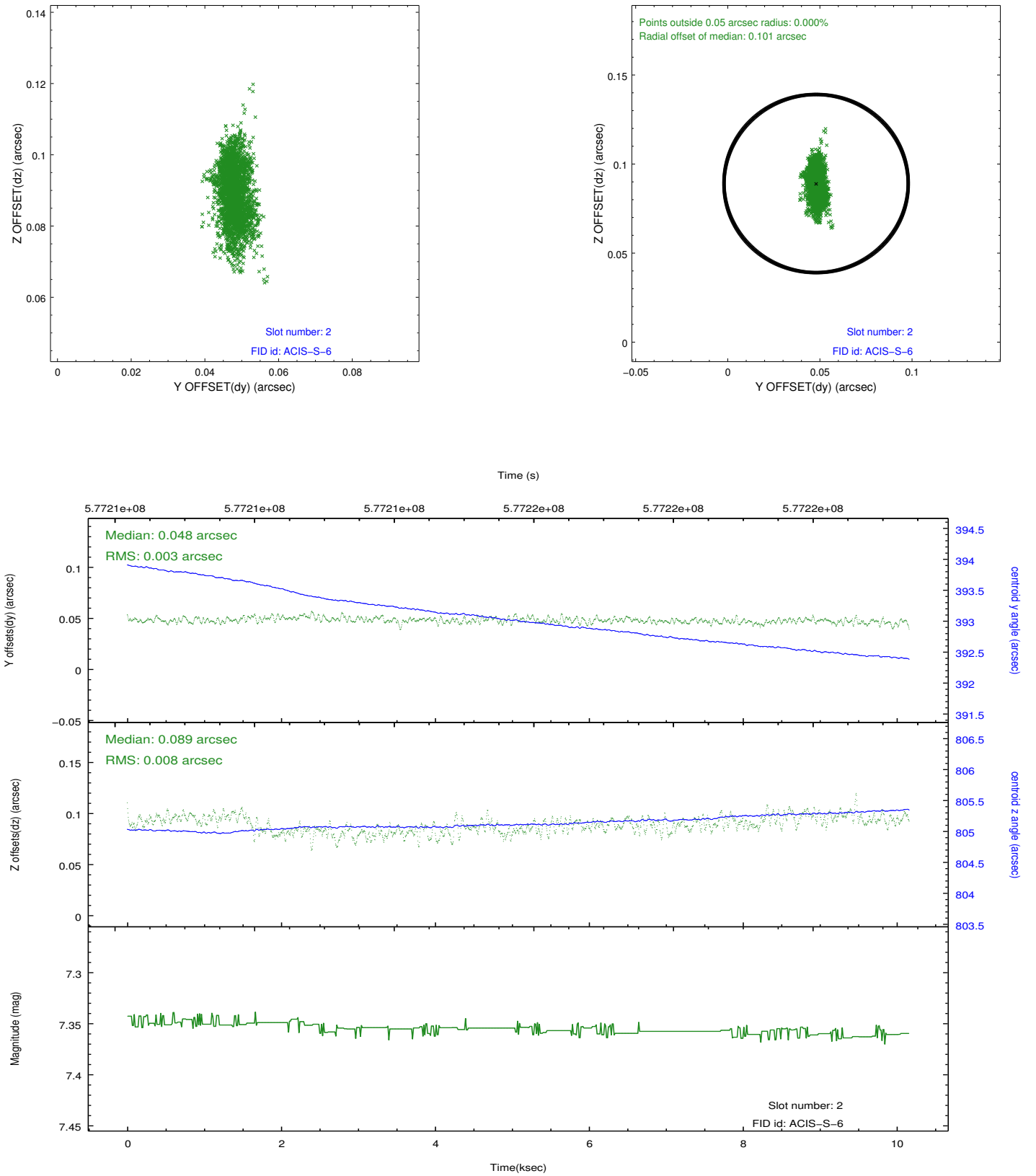
2.5.1 Slot 0



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)	2016.04.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9474800947905

A.2 Comments