

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18223 - L2 Version 1
Chandra X-Ray Center

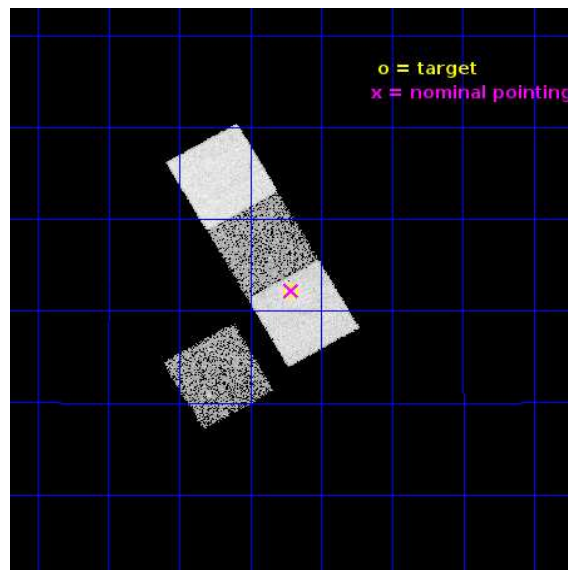
L2 Processing Date : Dec 20 2015

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1 Front

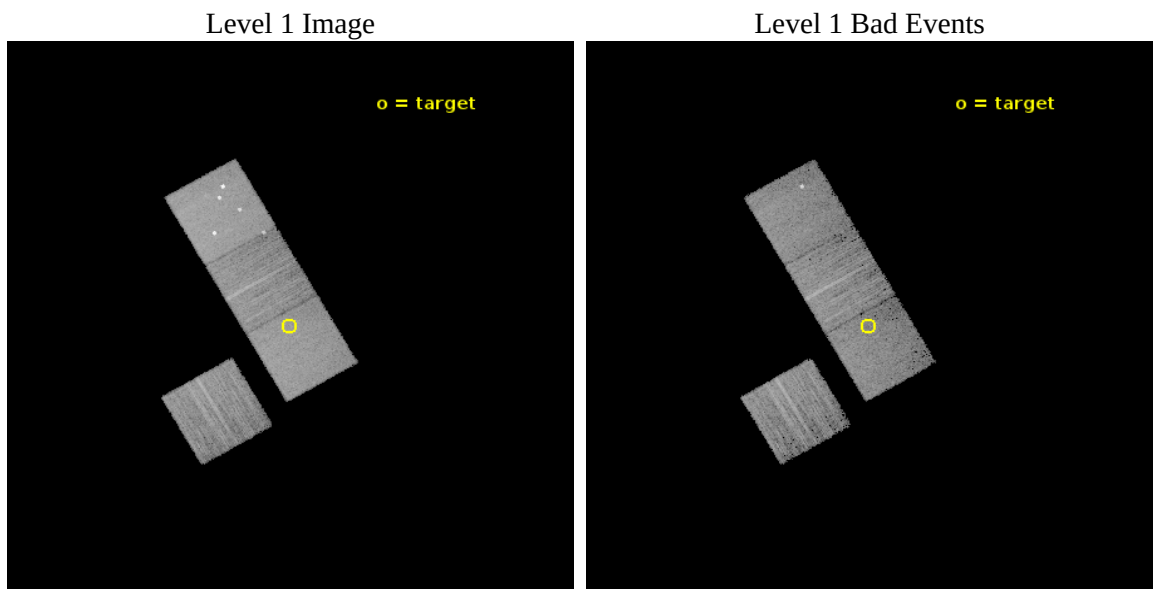
seq_num	801551	Sequence number
obs_id	18223	Observation id
title	Searching for Fossil Group Progenitors Via Strong Gravitational Lensing	Proposal title
observer	Mr. Lucas Johnson	Principal investigator
object	CSWA 11	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	120.054583	Observer's specified target RA [deg]
dec_targ	8.202306	Observer's specified target Dec [deg]
ra_nom	120.05249498401	Nominal RA [deg]
dec_nom	8.2035081346377	Nominal Dec [deg]
roll_nom	60.091077616483	Nominal Roll [deg]
revision	1	Processing version of data
ontime	11060.800085187	Sum of GTIs [s]
livetime	10916.282589231	Livetime [s]
ontime3	11057.658994794	Sum of GTIs [s]
ontime5	11060.800085187	Sum of GTIs [s]
ontime6	11057.658994913	Sum of GTIs [s]
ontime7	11060.800085187	Sum of GTIs [s]
l2events	90195	Number of level 2 events



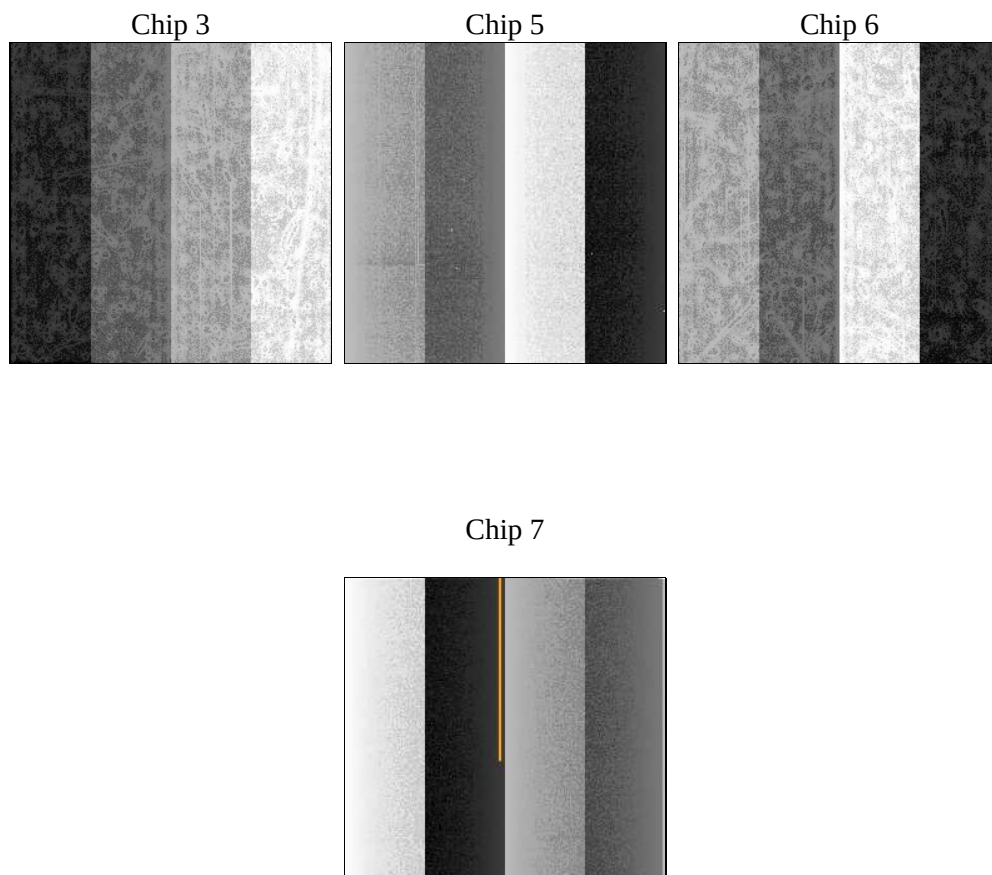
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	11060.800085187	Sum of GTIs [s]
caldsver	4.7.0	 	ontime3	11057.658994794	Sum of GTIs [s]
date	2015-12-20T23:14:37	Date and time of file creation	ontime5	11060.800085187	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	11057.658994913	Sum of GTIs [s]
			ontime7	11060.800085187	Sum of GTIs [s]
			l1events	316920	Number of level 1 events

2.1.4 Events

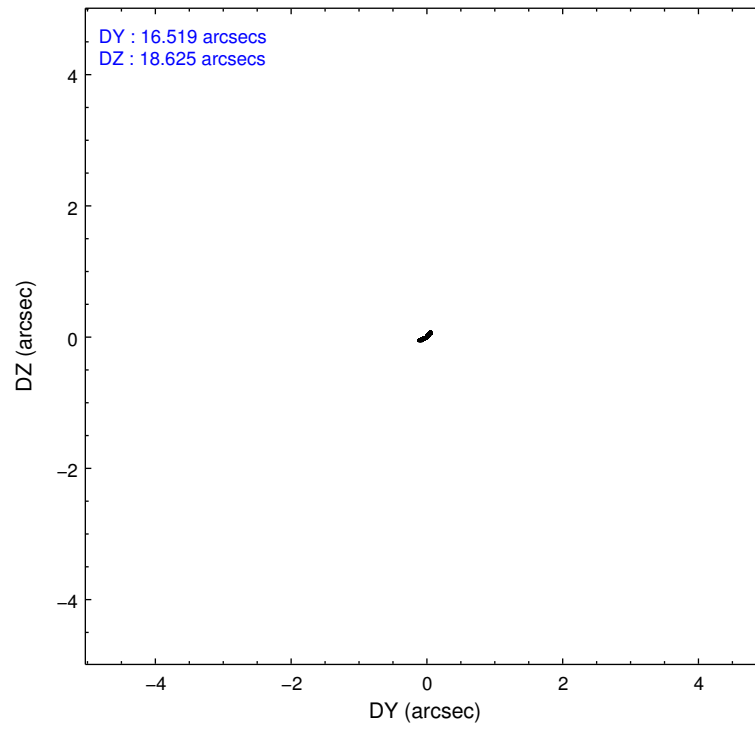
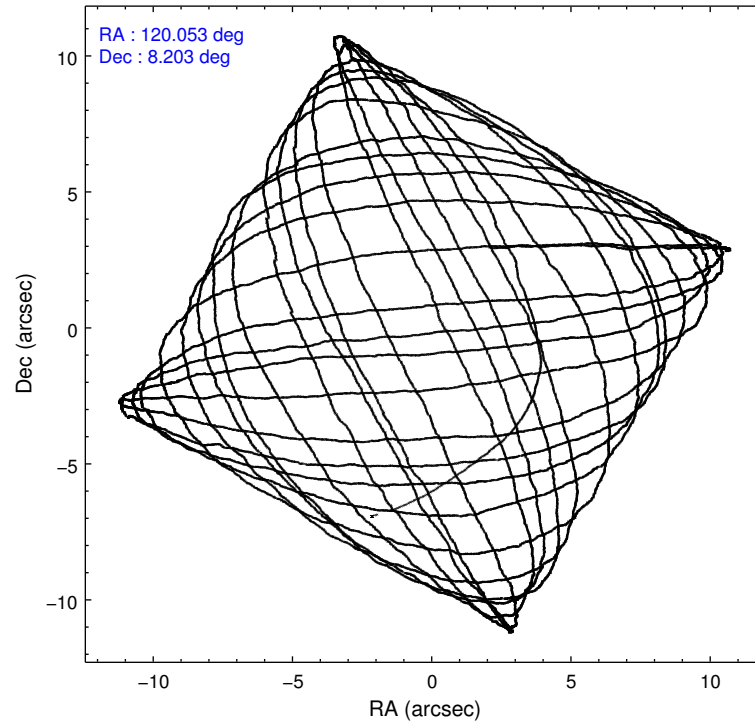
	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	62518	108681	64497	81224
rejected events	56211	52989	57209	46657
rejected %	89%	48%	88%	57%

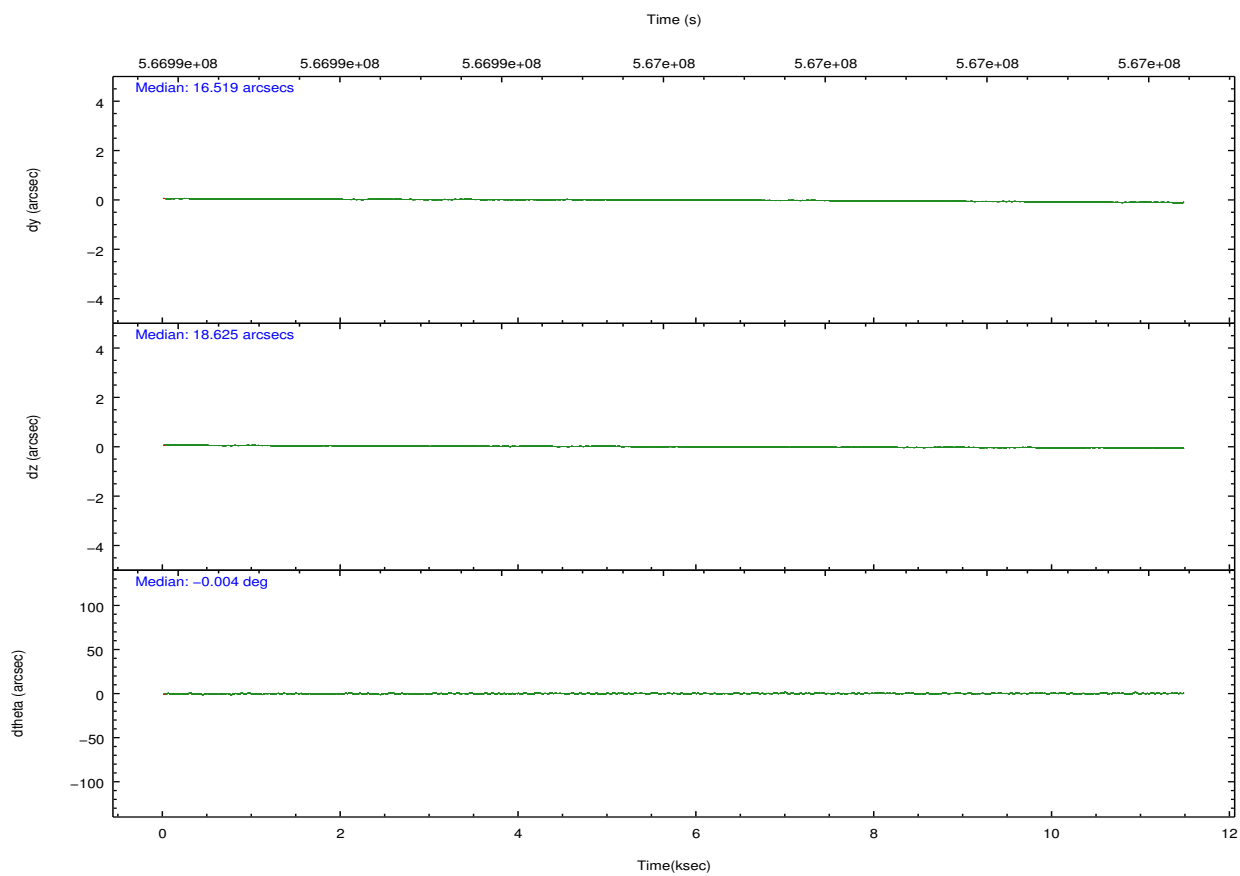
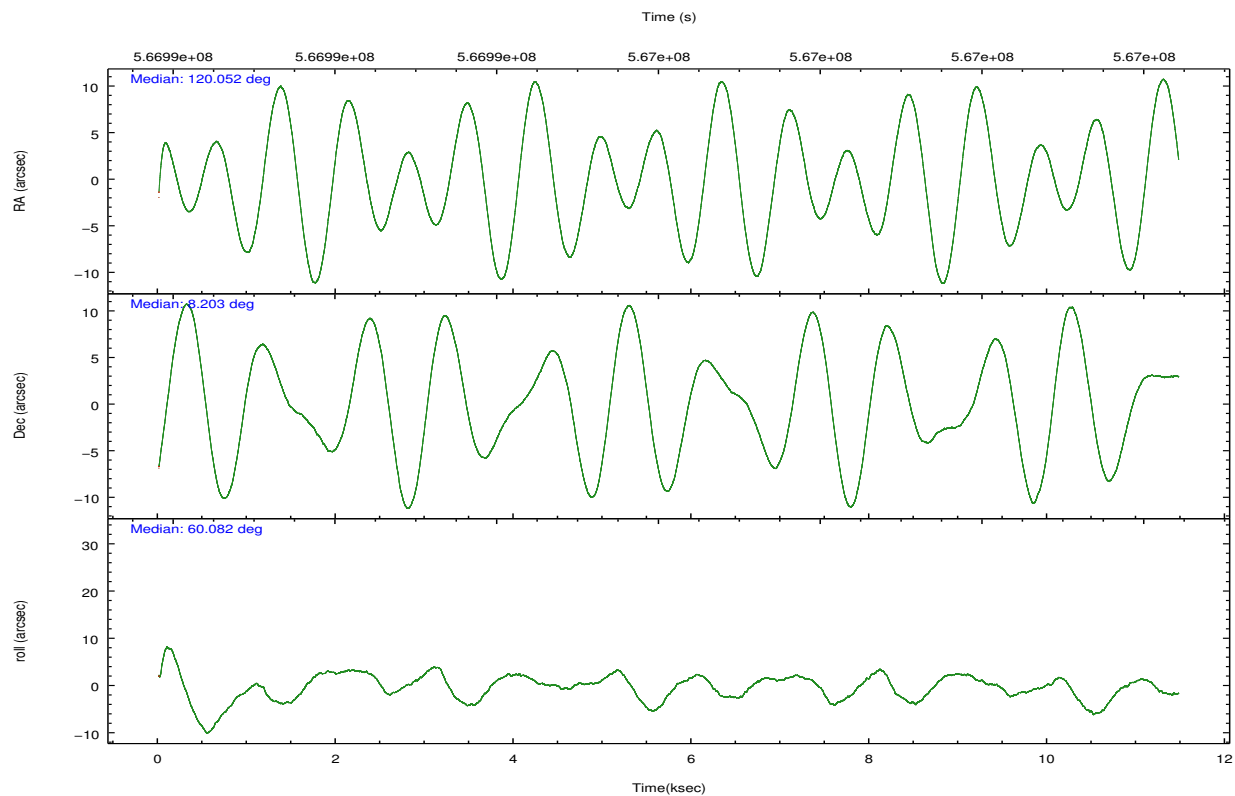
	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2145	10093	2328	2894
	3%	9%	3%	3%
grade 1 events	30	1462	17	91
	0%	1%	0%	0%
grade 2 events	1380	16627	1831	7274
	2%	15%	2%	8%
grade 3 events	670	1503	669	2600
	1%	1%	1%	3%
grade 4 events	651	1358	686	2593
	1%	1%	1%	3%
grade 5 events	2868	6473	2797	7655
	4%	5%	4%	9%
grade 6 events	1462	26125	1777	19214
	2%	24%	2%	23%
grade 7 events	53312	45040	54392	38903
	85%	41%	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3567	ACIS-3567	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	120.052882	120.0524949840084	CCD I2 on	N	N
[deg] Pointing Dec	8.176014	8.203508134637731	CCD I3 on	Y	Y
[deg] Pointing Roll	59.934402	60.09107761648324	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[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	O1	N
[s] Observation start time (MET)	566990886.184000	566989866.69542	CCD S5 on	N	N
Observation start date	2015-12-20T09:26:58	2015-12-20T09:11:06	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	567001886.184000	567002631.02114	On-chip summing requested	N	N
Observation end date	2015-12-20T12:30:18	2015-12-20T12:43:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



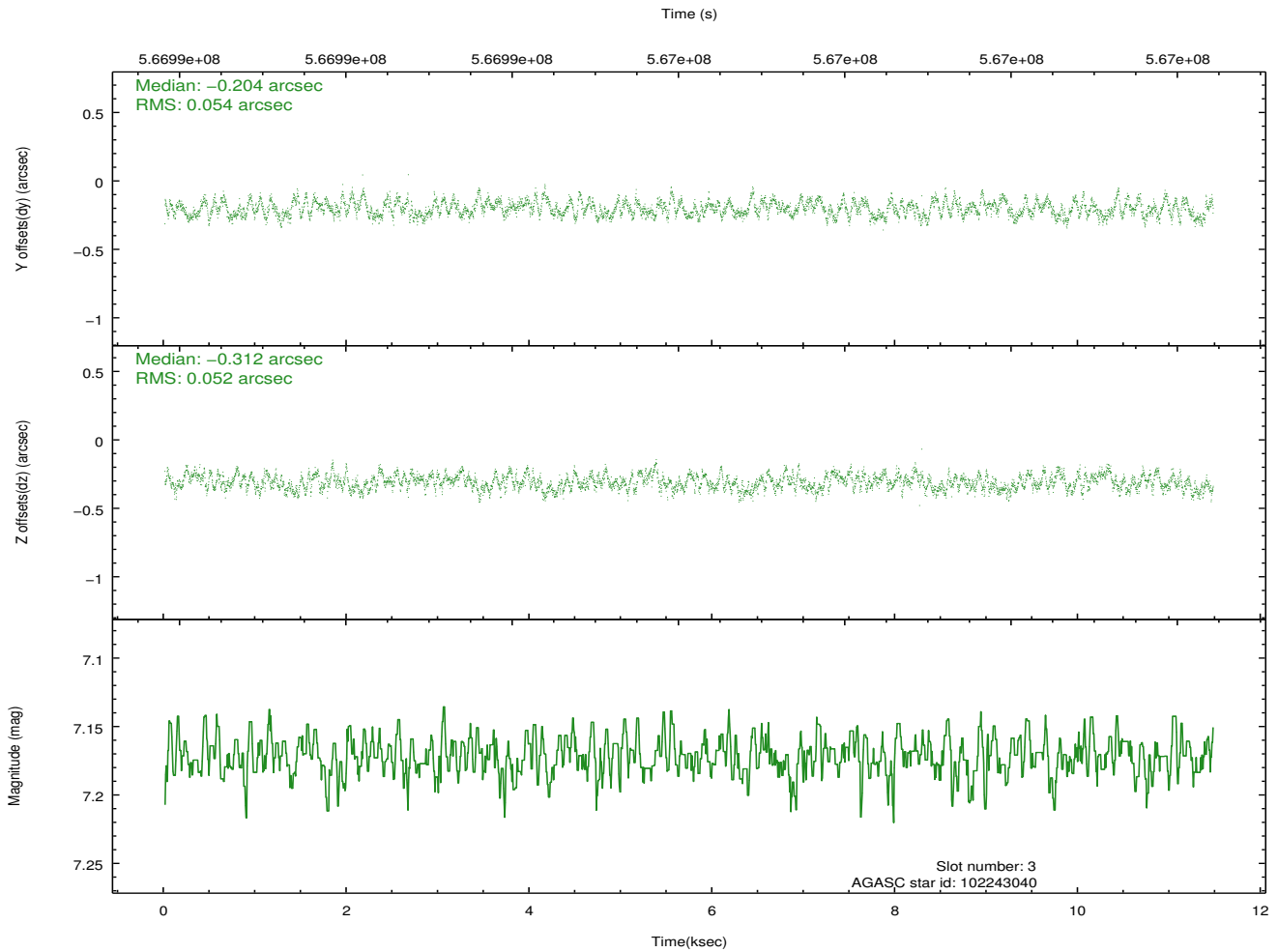
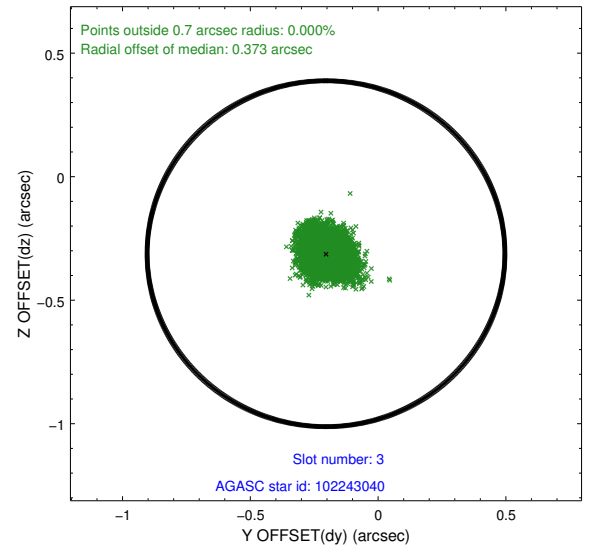
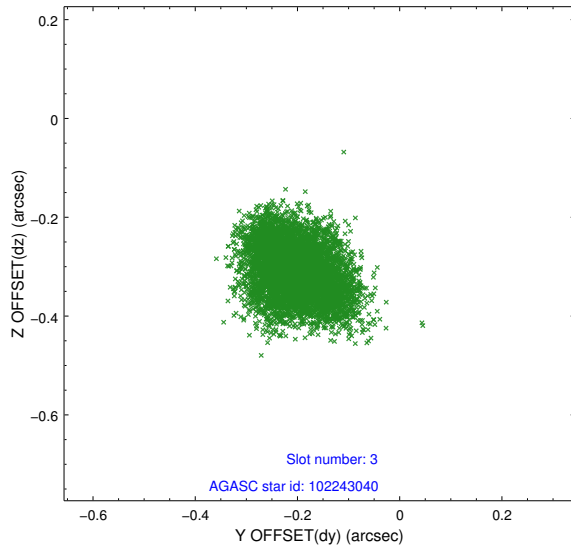


Slot Statistics

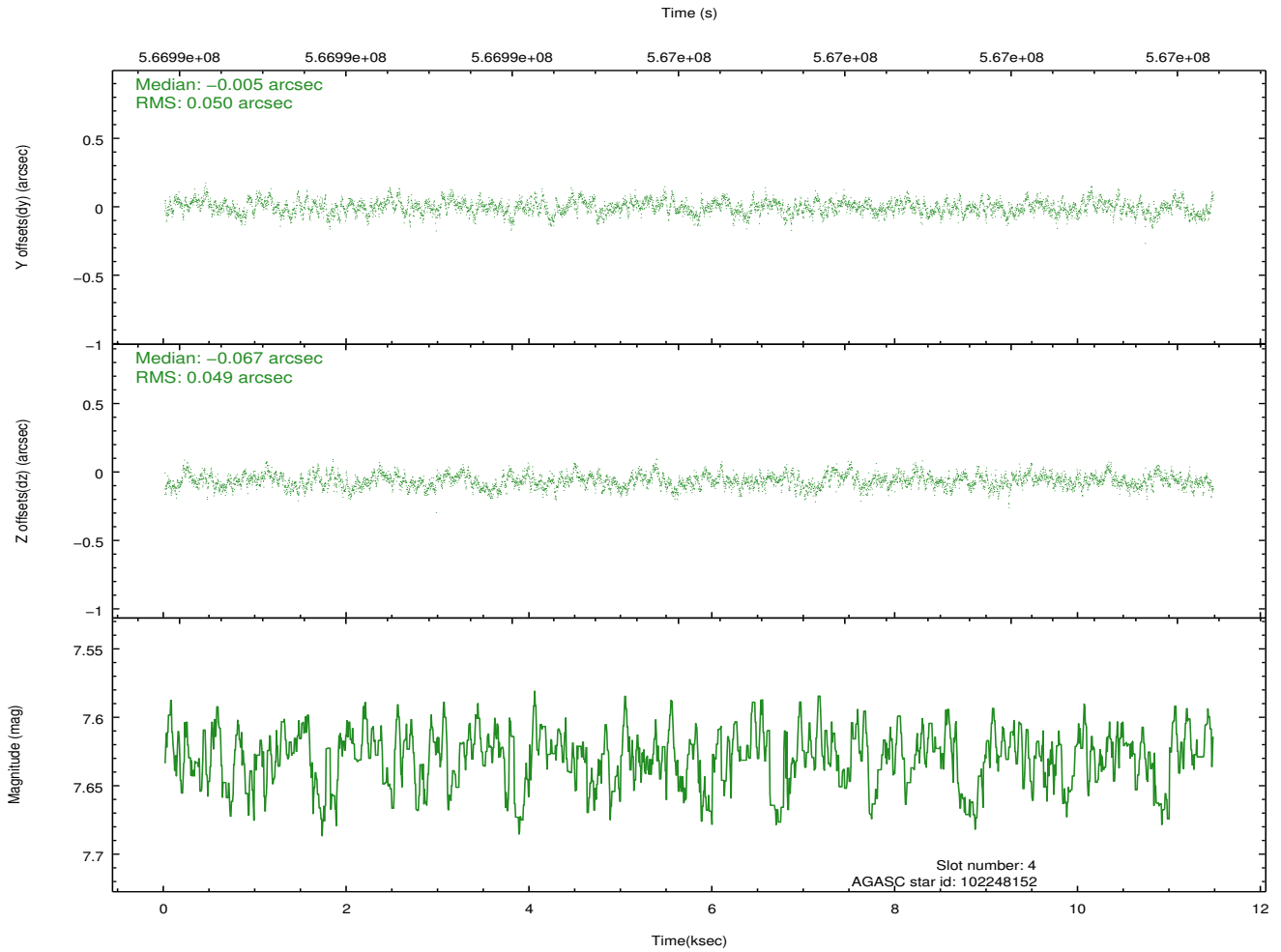
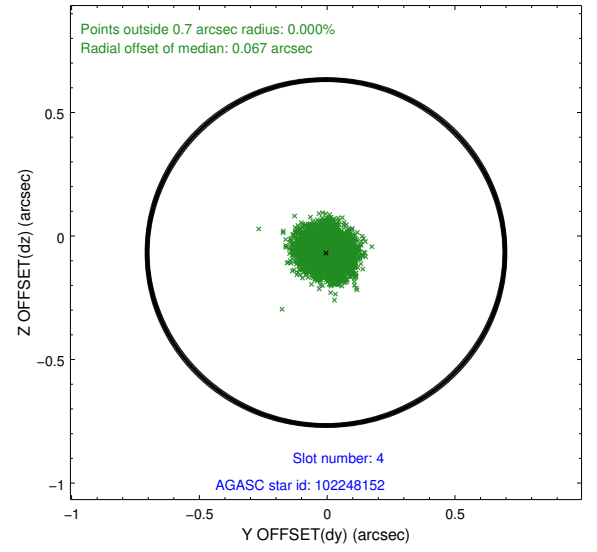
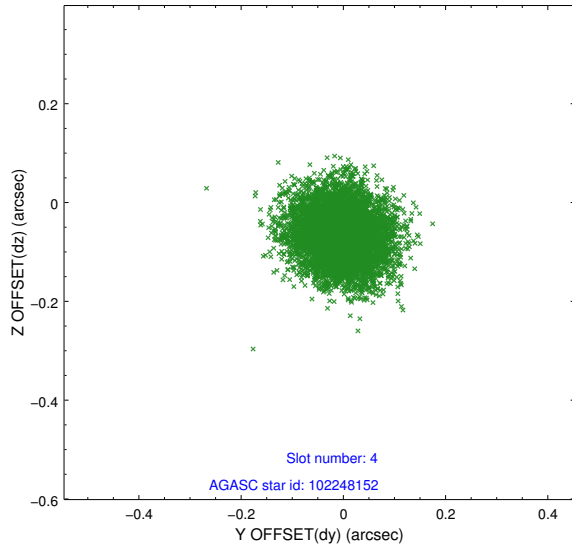
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.15	2798	-0.177	-0.166	0.007	0.012	0.000000	0.000000	-769.69	-1740.27
1	FID		ACIS-S-4	7.25	2797	0.456	0.130	0.006	0.011	0.000000	0.000000	2144.02	168.04
2	FID		ACIS-S-5	7.27	2798	-0.310	0.045	0.007	0.013	0.000000	0.000000	-1822.10	162.14
3	GUIDE	used	102243040	7.17	5595	-0.204	-0.312	0.082	0.126	119.720561	8.453285	271.58	1523.81
4	GUIDE	used	102248152	7.63	5593	-0.005	-0.067	0.076	0.120	120.306297	8.376322	1075.97	-419.18
5	GUIDE	used	102249424	8.63	5587	0.158	-0.001	0.122	0.203	119.320139	7.972128	-1941.93	1894.10
6	GUIDE	used	102250752	8.66	5593	0.035	0.275	0.106	0.177	120.455145	7.793007	-473.84	-1931.55
7	GUIDE	used	102380704	8.95	5592	0.012	0.110	0.137	0.214	120.832718	8.320335	1843.85	-2142.30

2.4 Star Slots

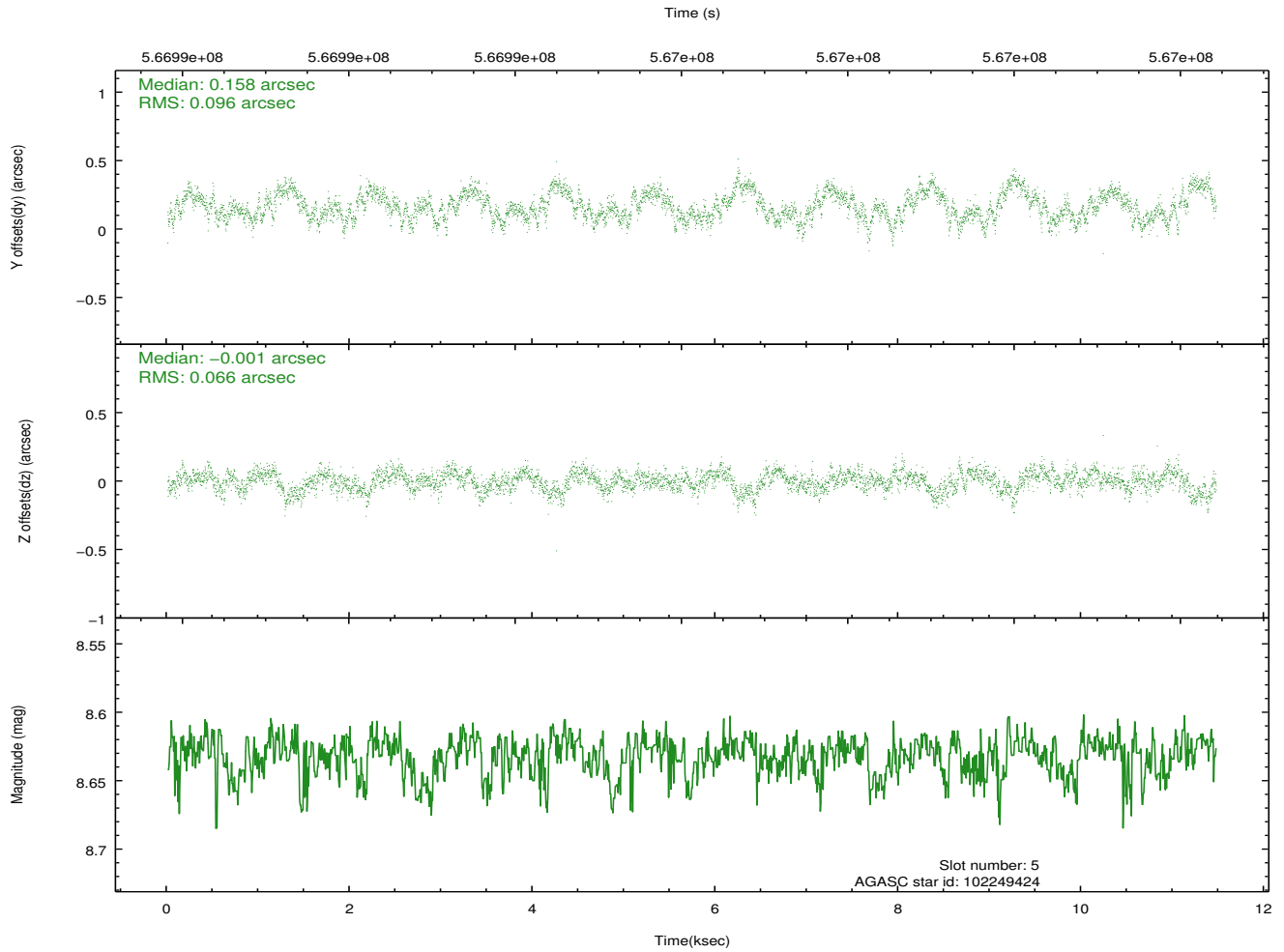
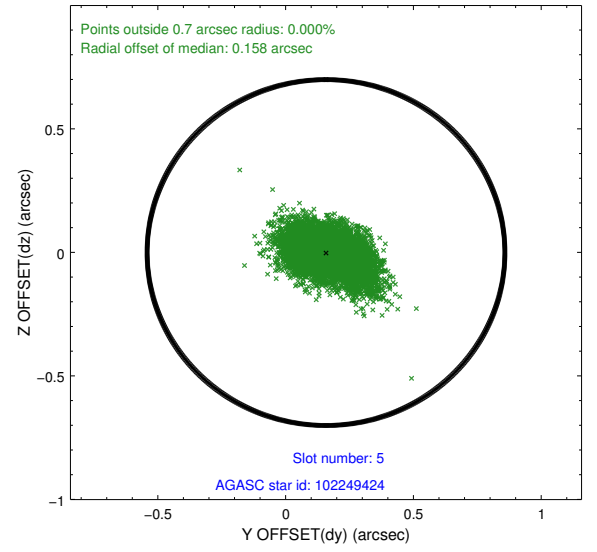
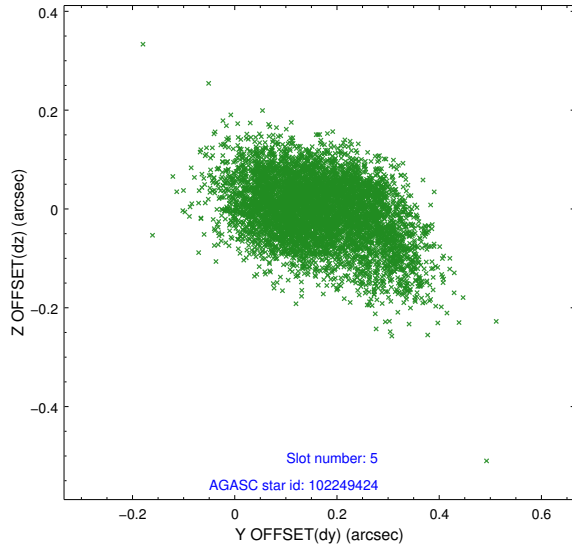
2.4.1 Slot 3



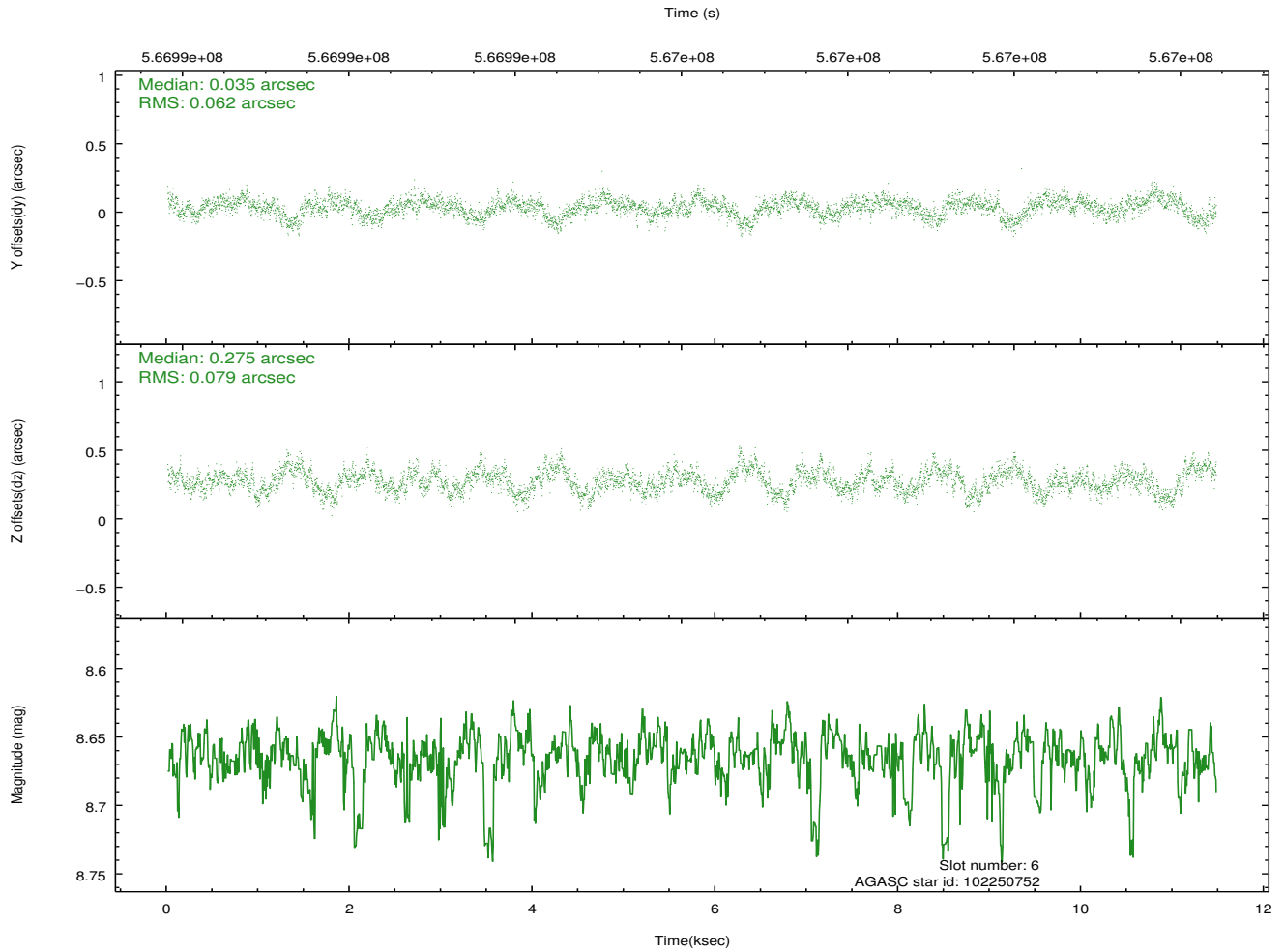
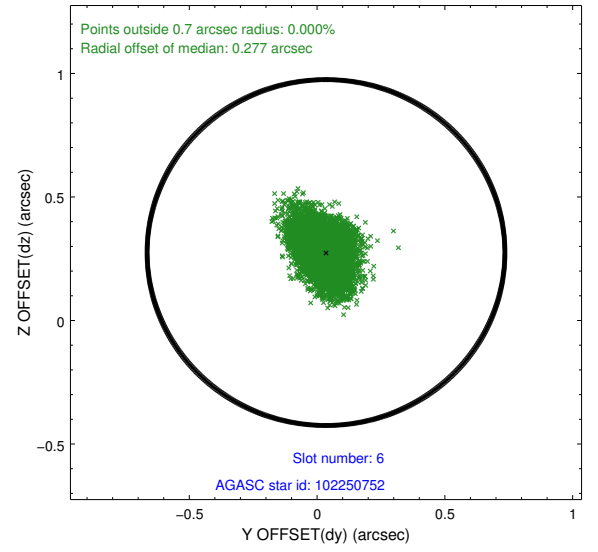
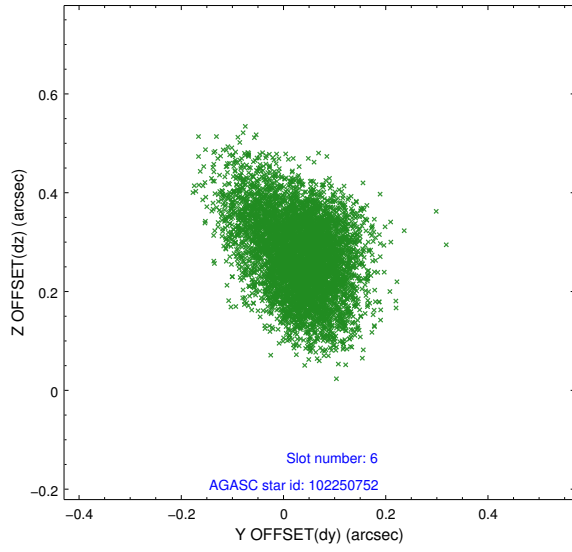
2.4.2 Slot 4



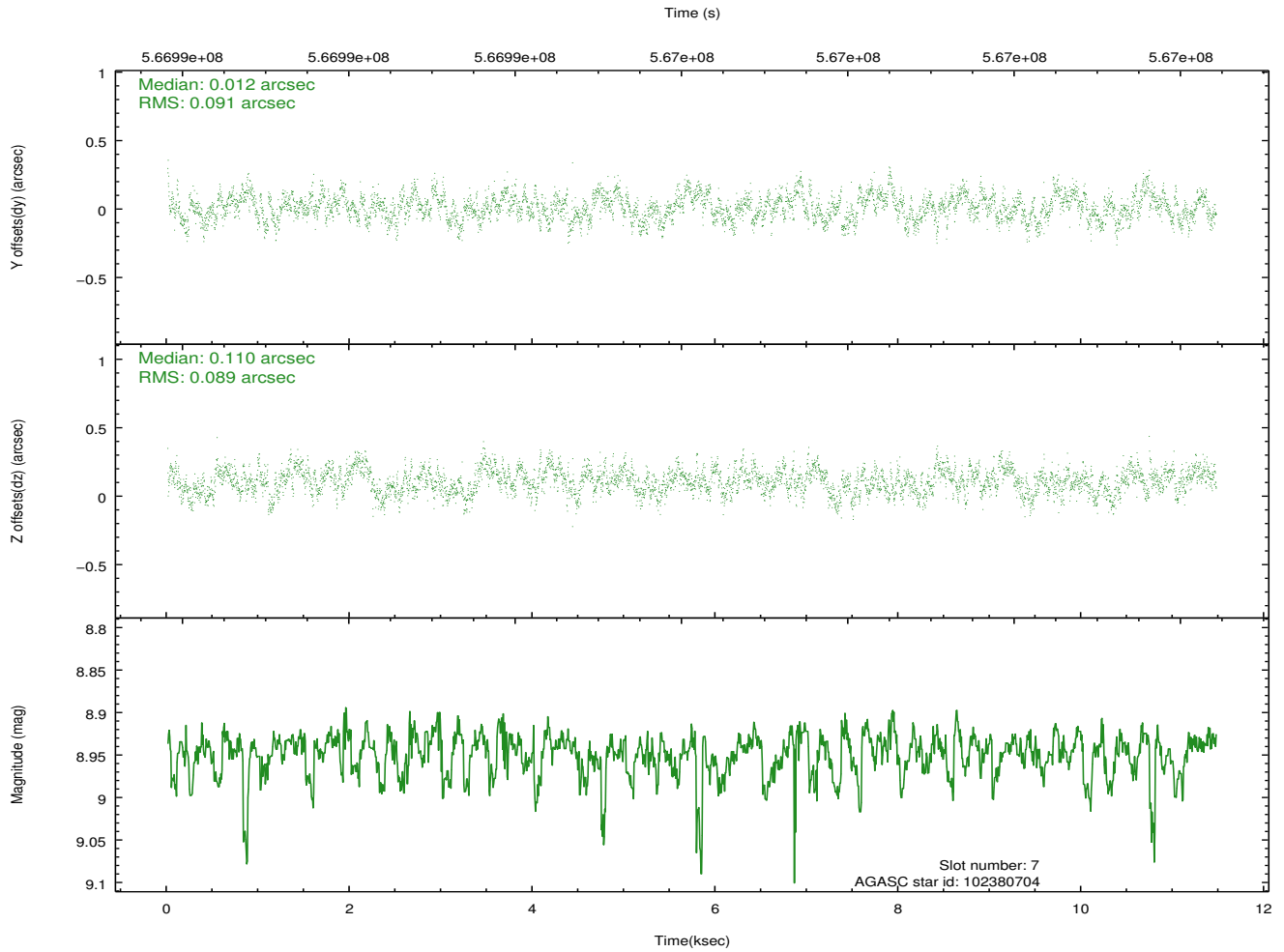
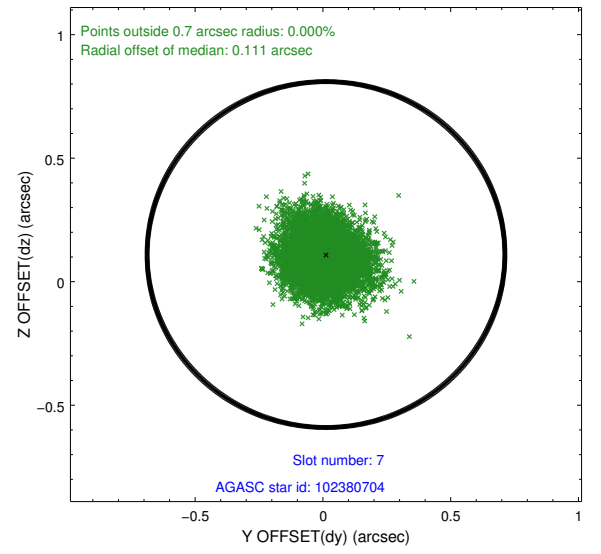
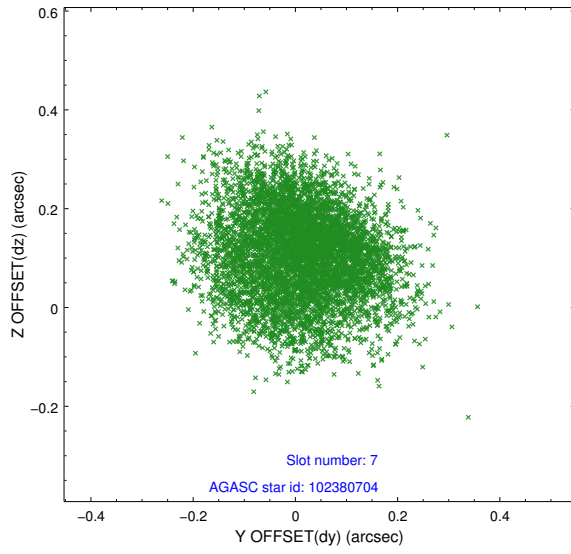
2.4.3 Slot 5



2.4.4 Slot 6

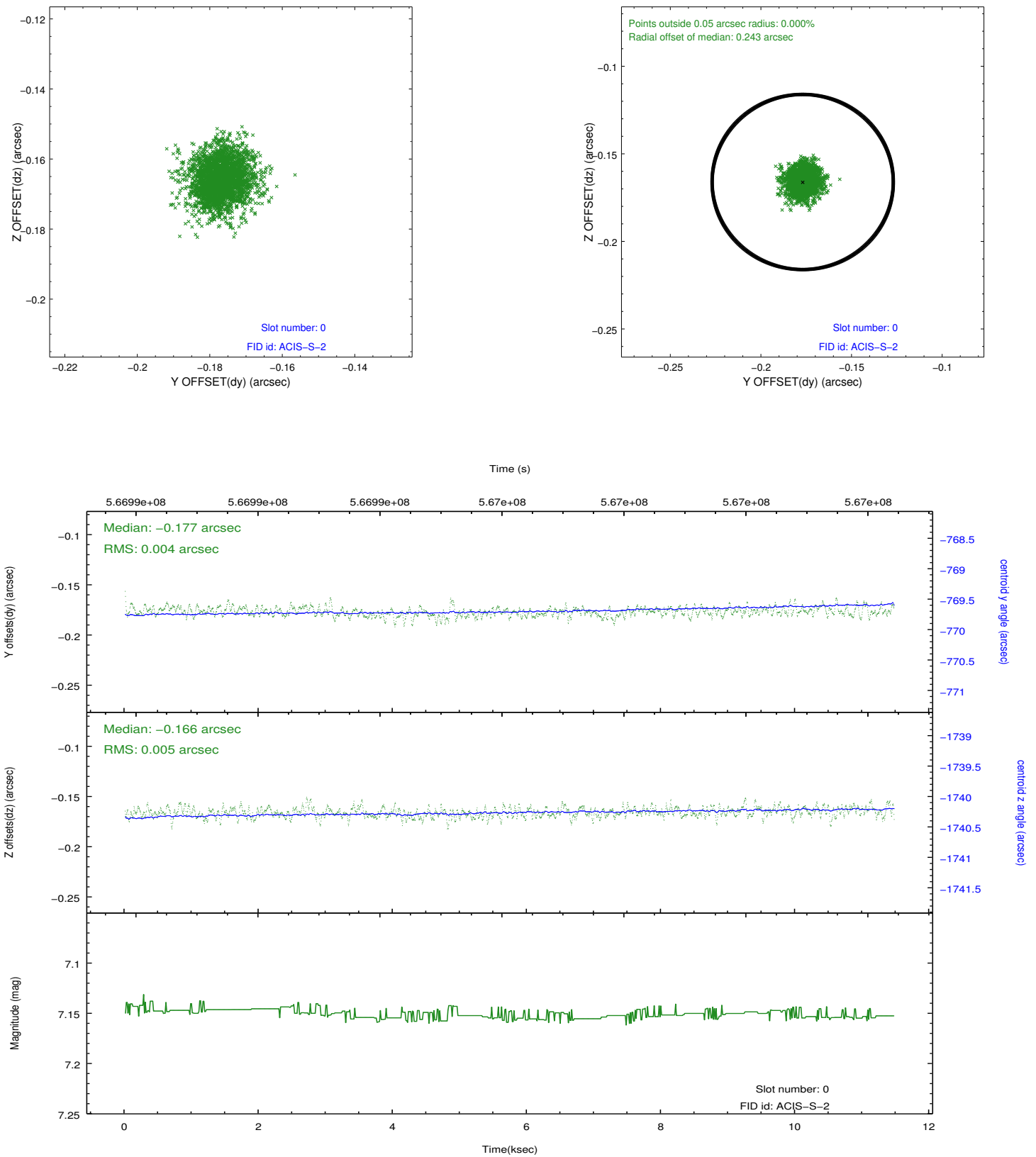


2.4.5 Slot 7

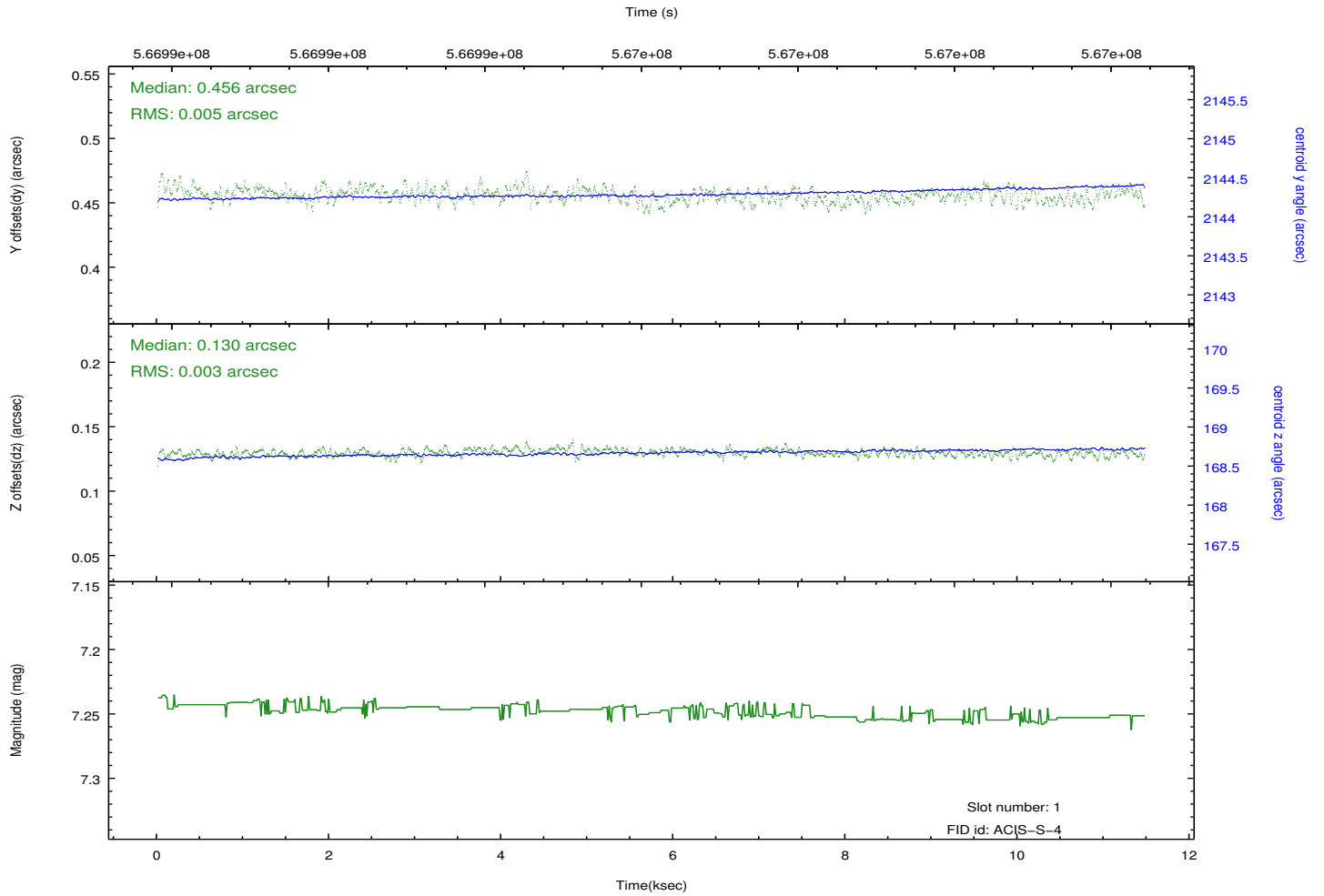
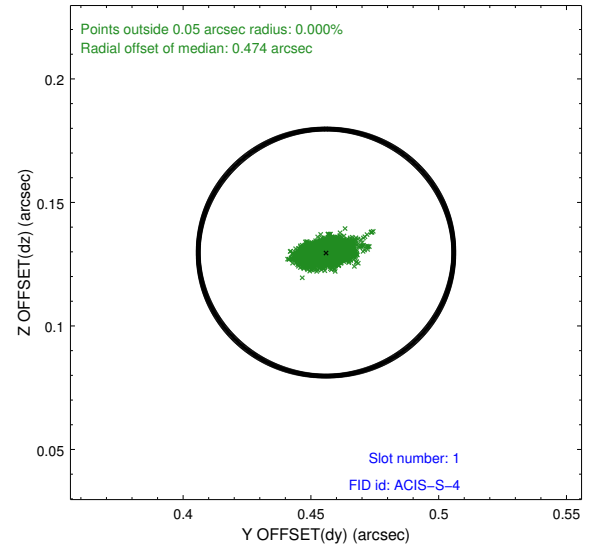
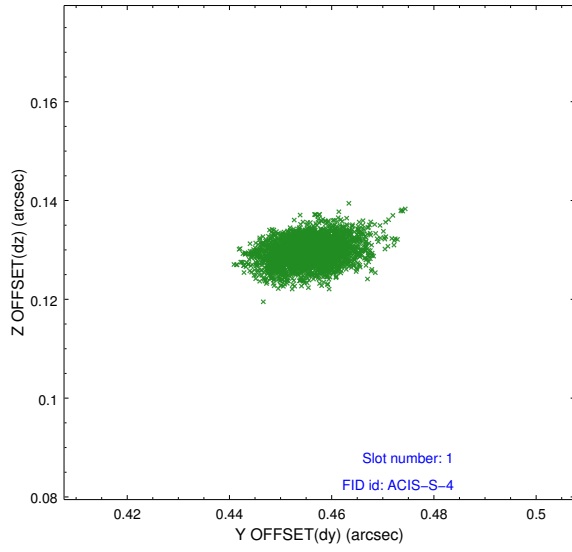


2.5 FID Slots

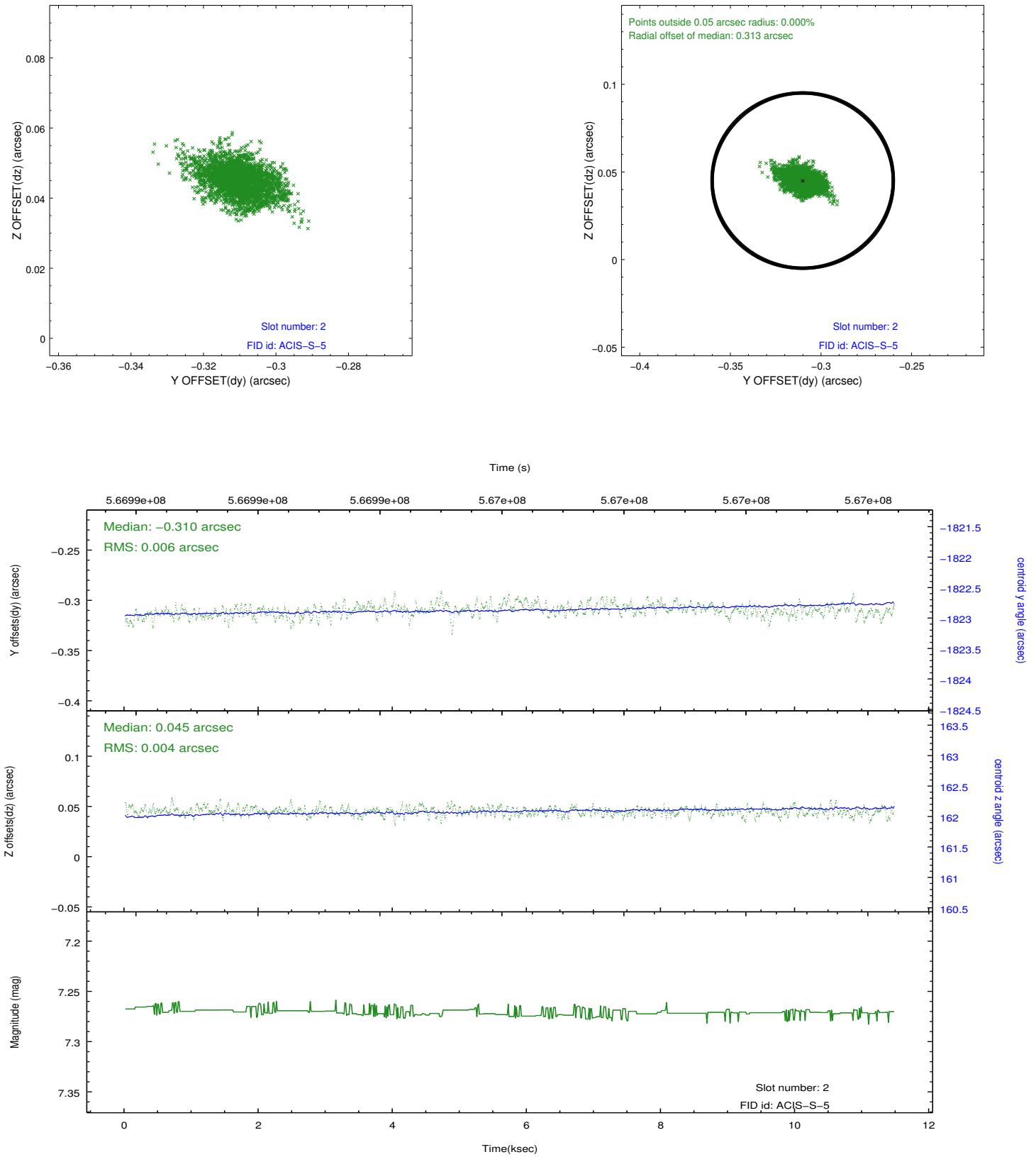
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.060800085187

A.2 Comments

Joint Proposal: HST. Optional chip S4 not used.