

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11256 - L2 Version 2
Chandra X-Ray Center

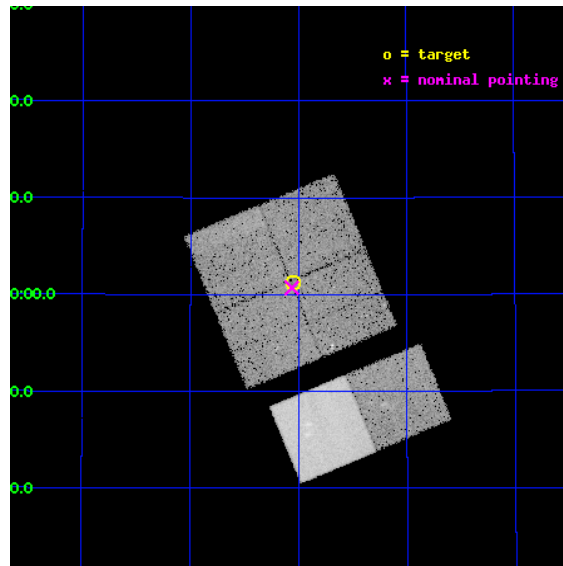
L2 Processing Date : Jun 13 2012

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1 Front

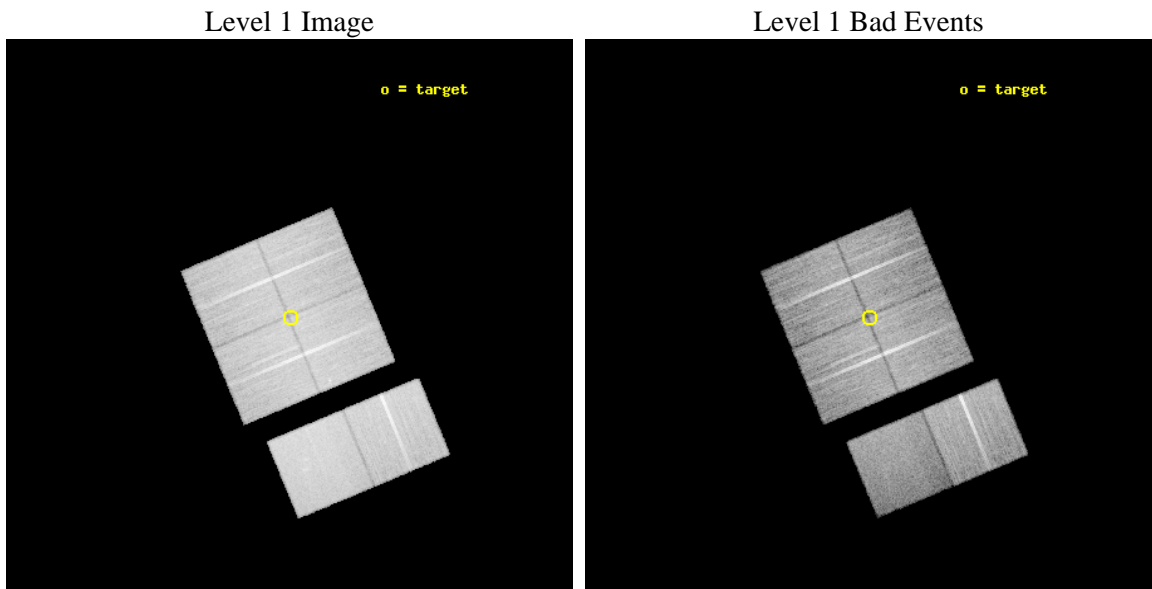
seq_num	600775	Sequence number
obs_id	11256	Observation id
title	Mapping out the hot gas outflow from the M31 bulge	Proposal title
observer	Prof. Q. Daniel Wang	Principal investigator
object	M31 bulge off-field 2	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	11.012917	Observer's specified target RA [deg]
dec_targ	41.021083	Observer's specified target Dec [deg]
ra_nom	11.01529818609	Nominal RA [deg]
dec_nom	41.011684928659	Nominal Dec [deg]
roll_nom	157.37233679919	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20118.399925113	Sum of GTIs [s]
livetime	19863.648631415	Livetime [s]
ontime0	20118.399925113	Sum of GTIs [s]
ontime1	20118.399925113	Sum of GTIs [s]
ontime2	20118.399925113	Sum of GTIs [s]
ontime3	20118.399925113	Sum of GTIs [s]
ontime6	20118.399925113	Sum of GTIs [s]
ontime7	20118.399925113	Sum of GTIs [s]
l2events	163299	Number of level 2 events



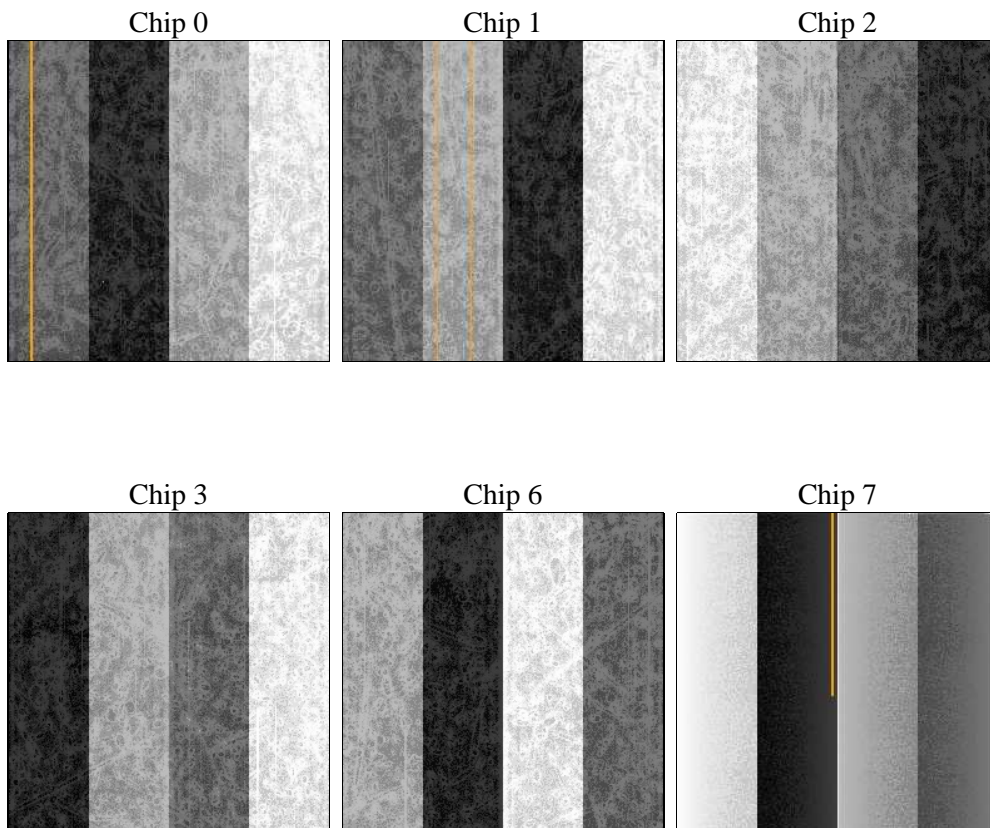
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20118.399925113	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	20118.399925113	Sum of GTIs [s]
date	2012-06-13T19:17:14	Date and time of file creation	ontime1	20118.399925113	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20118.399925113	Sum of GTIs [s]
			ontime3	20118.399925113	Sum of GTIs [s]
			ontime6	20118.399925113	Sum of GTIs [s]
			ontime7	20118.399925113	Sum of GTIs [s]
			l1events	1061401	Number of level 1 events

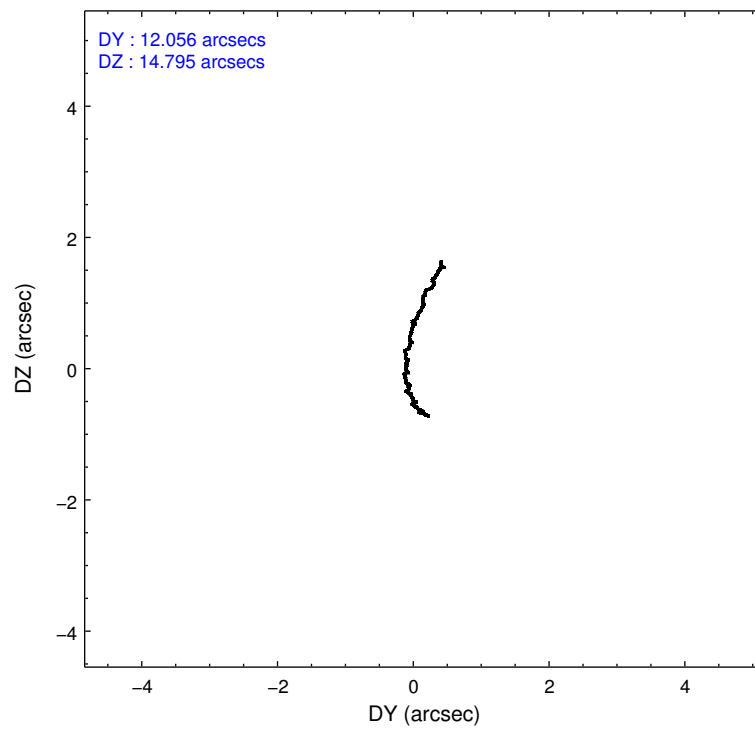
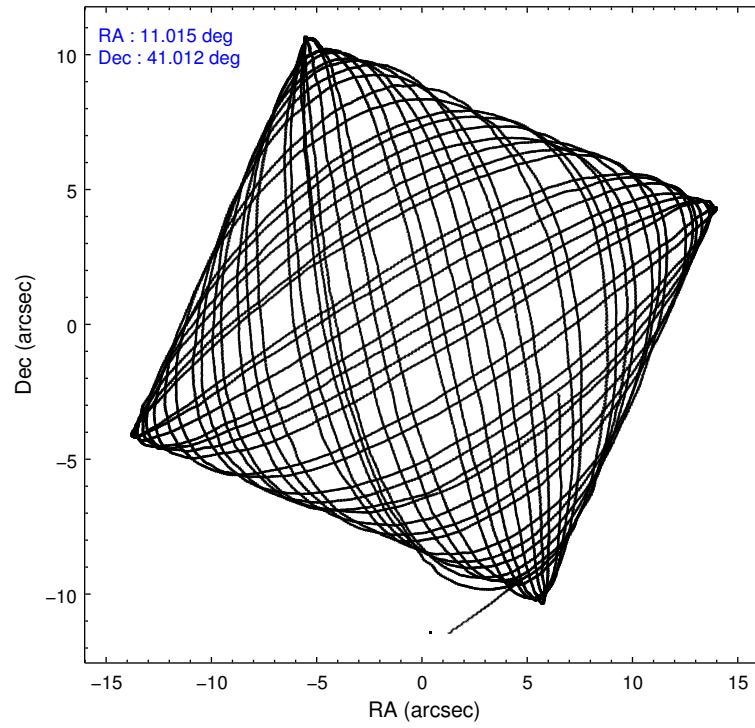
2.1.4 Events

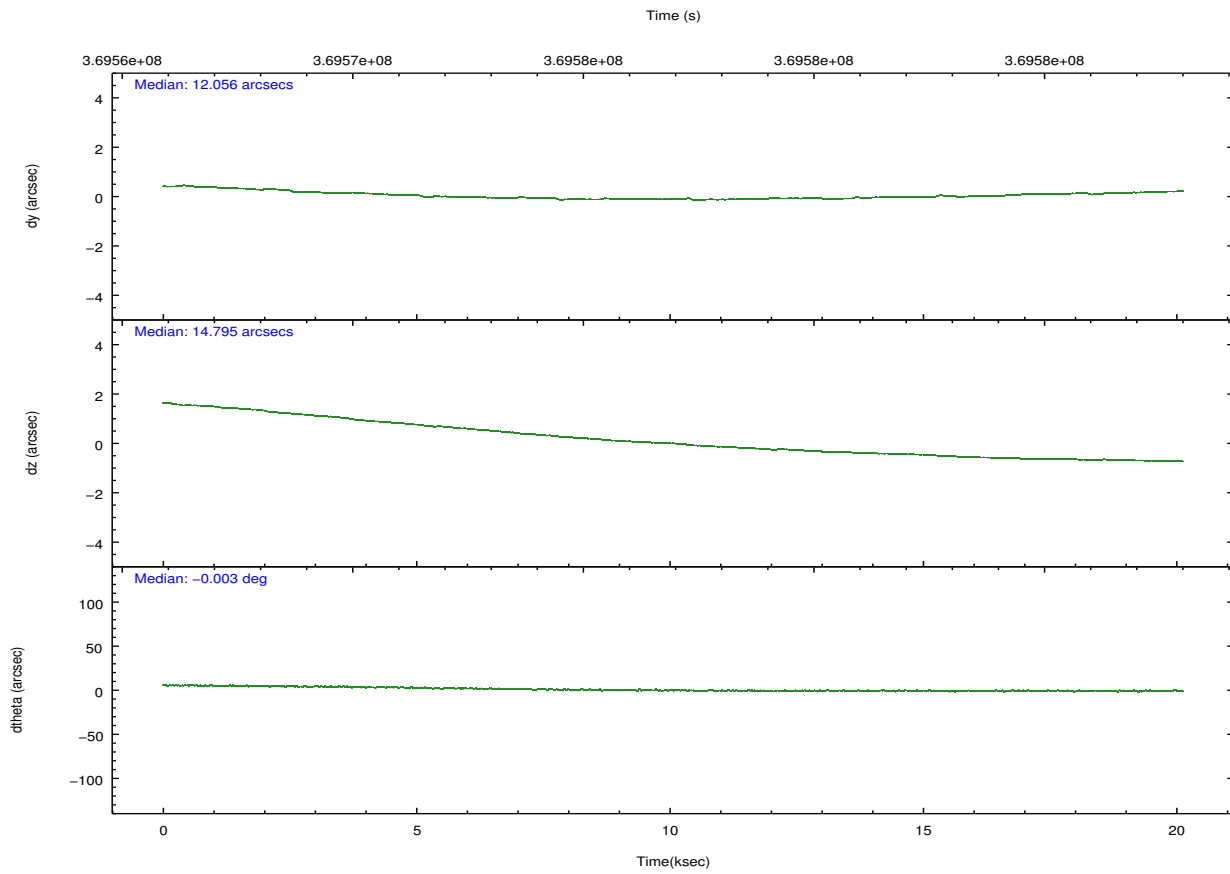
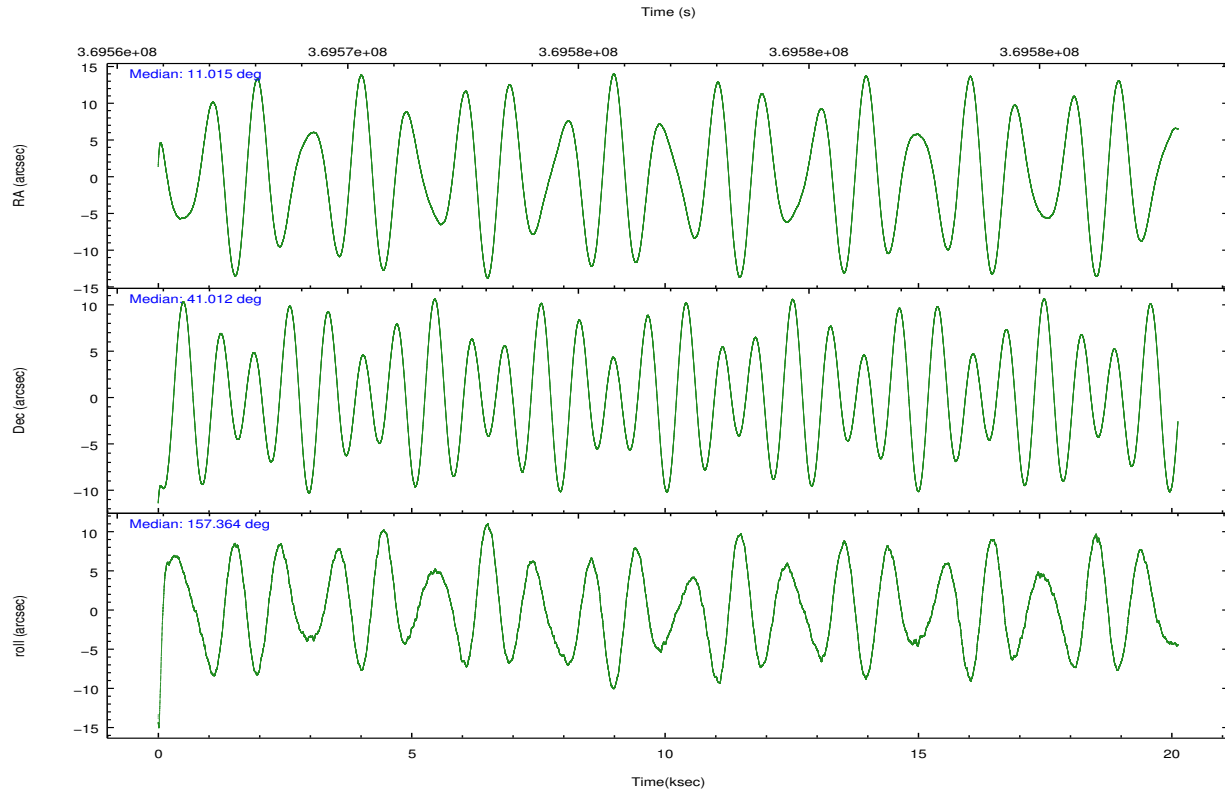
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	159424	163106	180748	172678	182300	203145	grade 0 events	6600	7127	6568	5903	6831	8618
rejected events	141624	143700	163311	156221	163385	112266		4%	4%	3%	3%	3%	4%
rejected %	88%	88%	90%	90%	89%	55%	grade 1 events	96	99	123	114	105	273
								0%	0%	0%	0%	0%	0%
							grade 2 events	4329	4568	4289	3749	4407	19264
								2%	2%	2%	2%	2%	9%
							grade 3 events	1994	2106	1854	1865	2061	8441
								1%	1%	1%	1%	1%	4%
							grade 4 events	1817	2047	1841	1838	1975	8222
								1%	1%	1%	1%	1%	4%
							grade 5 events	6348	6934	6061	7509	7460	21593
								3%	4%	3%	4%	4%	10%
							grade 6 events	3452	3990	3285	3500	4102	48379
								2%	2%	1%	2%	2%	23%
							grade 7 events	134788	136235	156727	148200	155359	88355
								84%	83%	86%	85%	85%	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	11.051419	11.01529818608958	CCD I2 on	Y	Y
[deg] Pointing Dec	41.015350	41.01168492865876	CCD I3 on	Y	Y
[deg] Pointing Roll	157.139950	157.3723367991917	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	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	369567000.184000	369565731.36434	CCD S5 on	N	N
Observation start date	2009-09-17T09:28:54	2009-09-17T09:08:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	369587000.184000	369587493.14043	On-chip summing requested	N	N
Observation end date	2009-09-17T15:02:14	2009-09-17T15:11:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



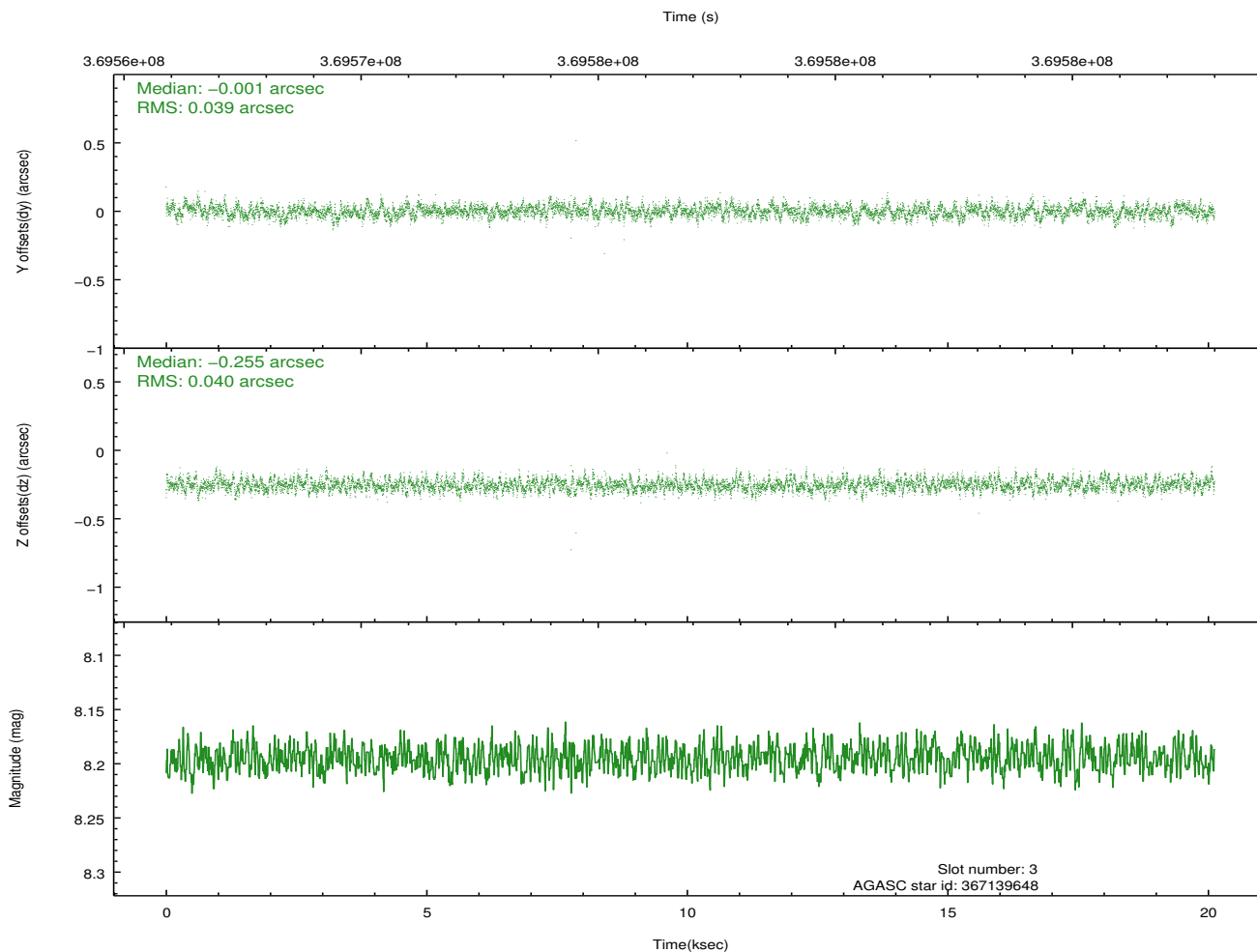
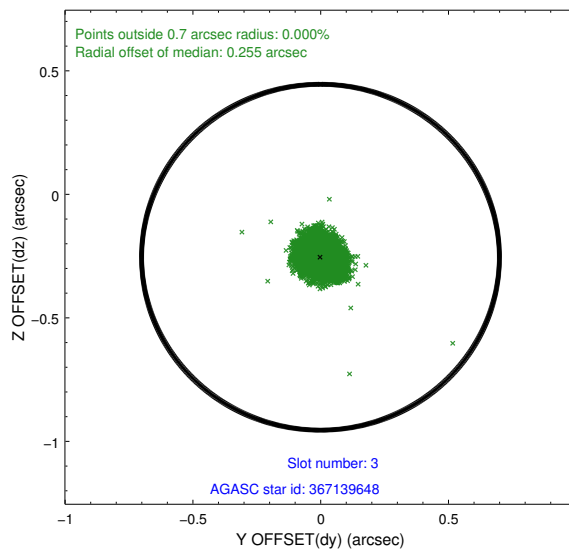
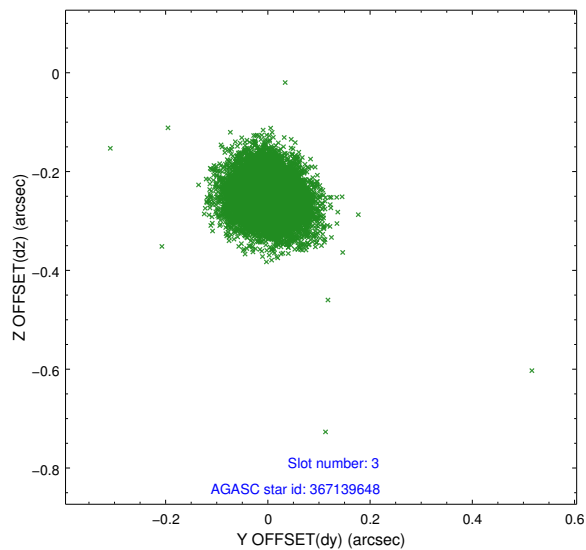


Slot Statistics

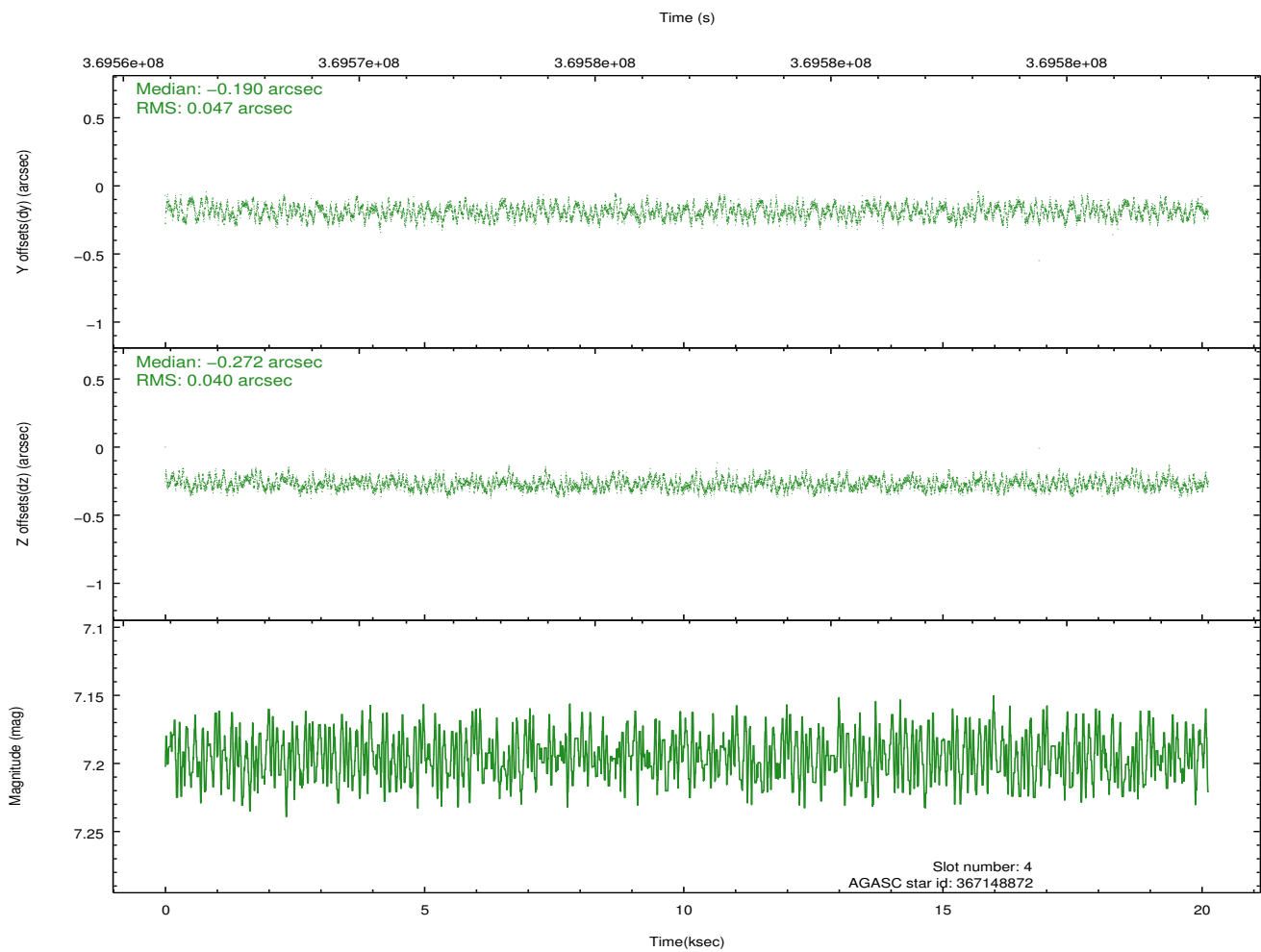
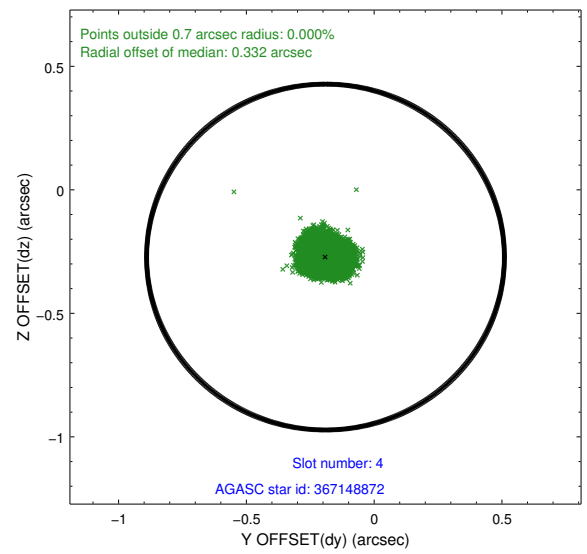
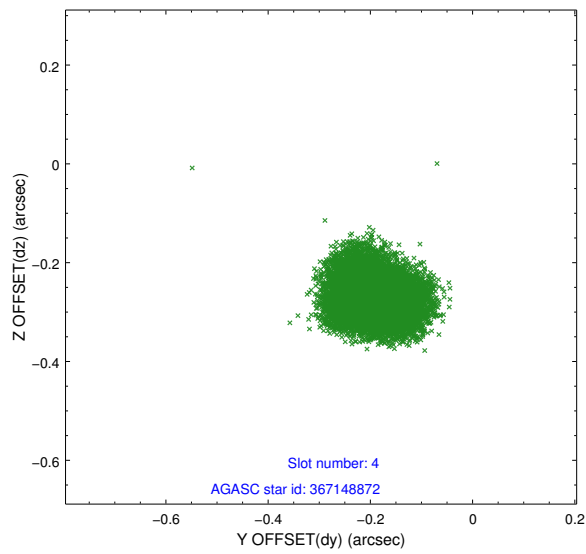
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	4909	0.012	0.011	0.027	0.072	0.000000	0.000000	927.46	-838.55
1	FID	ACIS-I-5	7.00	4909	-0.167	0.032	0.012	0.035	0.000000	0.000000	-1820.75	1058.86
2	FID	ACIS-I-6	7.00	4908	0.062	0.033	0.022	0.034	0.000000	0.000000	392.82	1703.59
3	GUIDE	367139648	8.20	9814	-0.001	-0.255	0.059	0.096	11.021290	40.433909	-737.42	1960.63
4	GUIDE	367148872	7.19	9817	-0.190	-0.272	0.067	0.102	10.505940	40.688258	916.14	1659.97
5	GUIDE	367657272	8.43	9815	0.115	0.149	0.077	0.120	11.834471	41.298907	-1550.50	-1771.99
6	GUIDE	367657368	8.64	9810	0.137	0.263	0.078	0.121	11.928227	41.287266	-1800.11	-1834.56
7	GUIDE	367674552	8.85	9807	-0.055	0.114	0.083	0.134	11.016238	41.570845	864.39	-1805.77

2.4 Star Slots

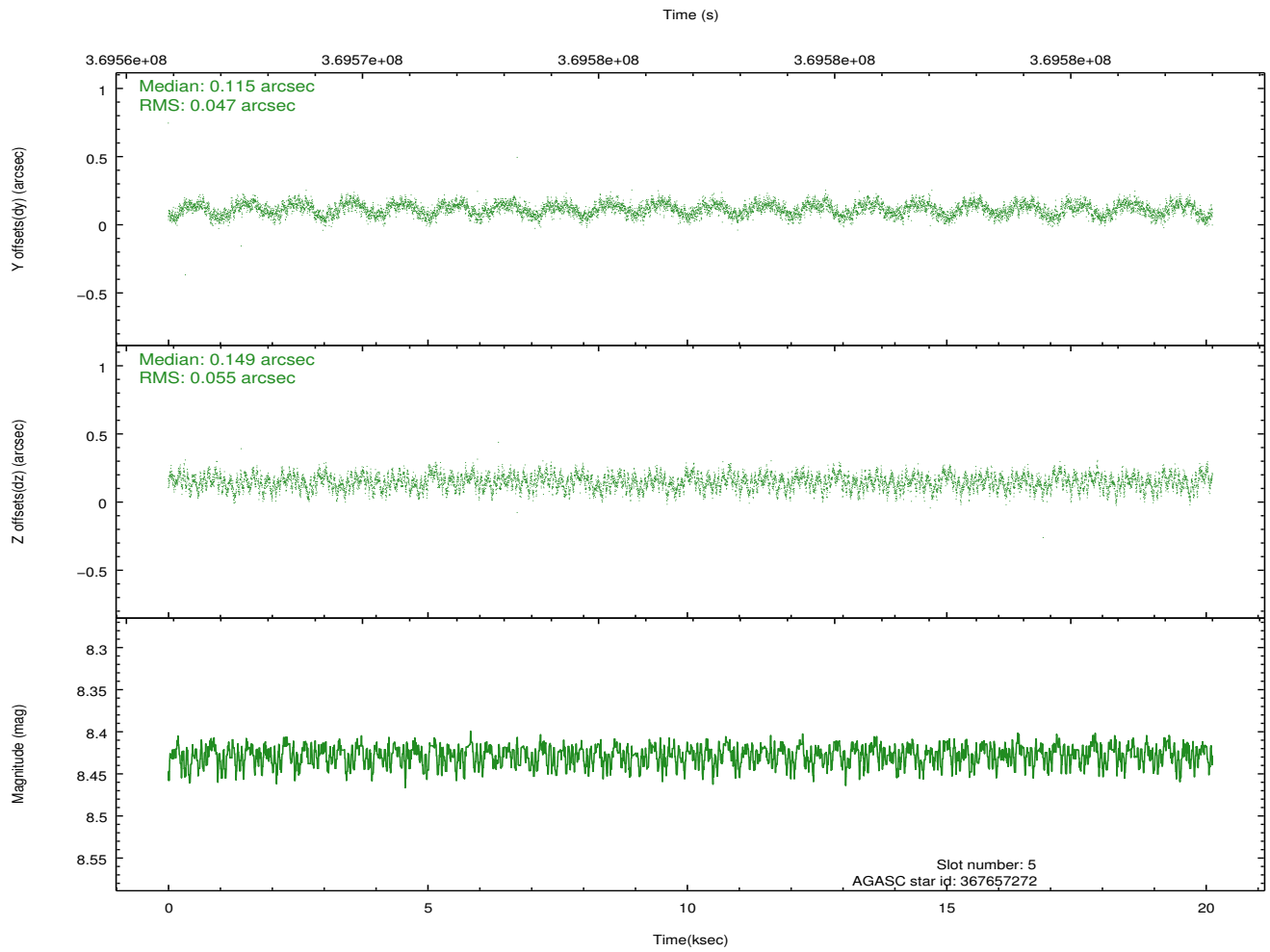
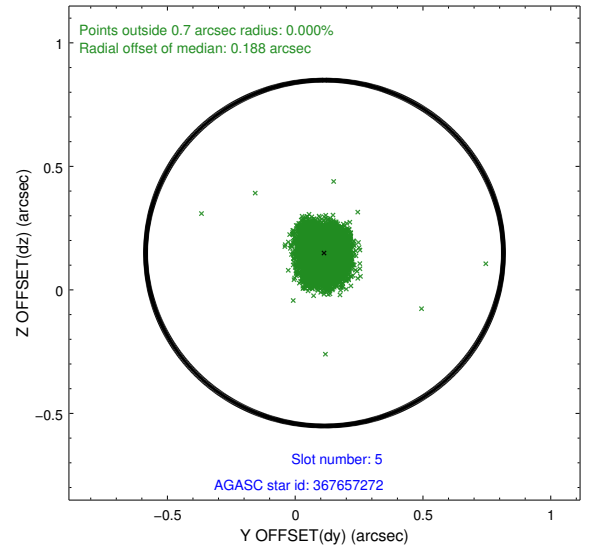
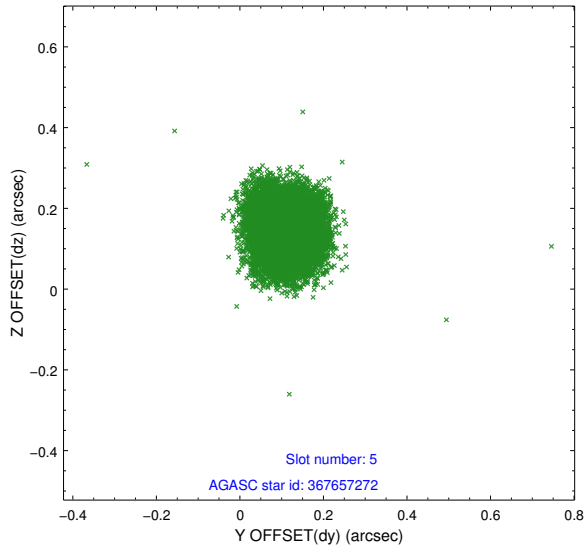
2.4.1 Slot 3



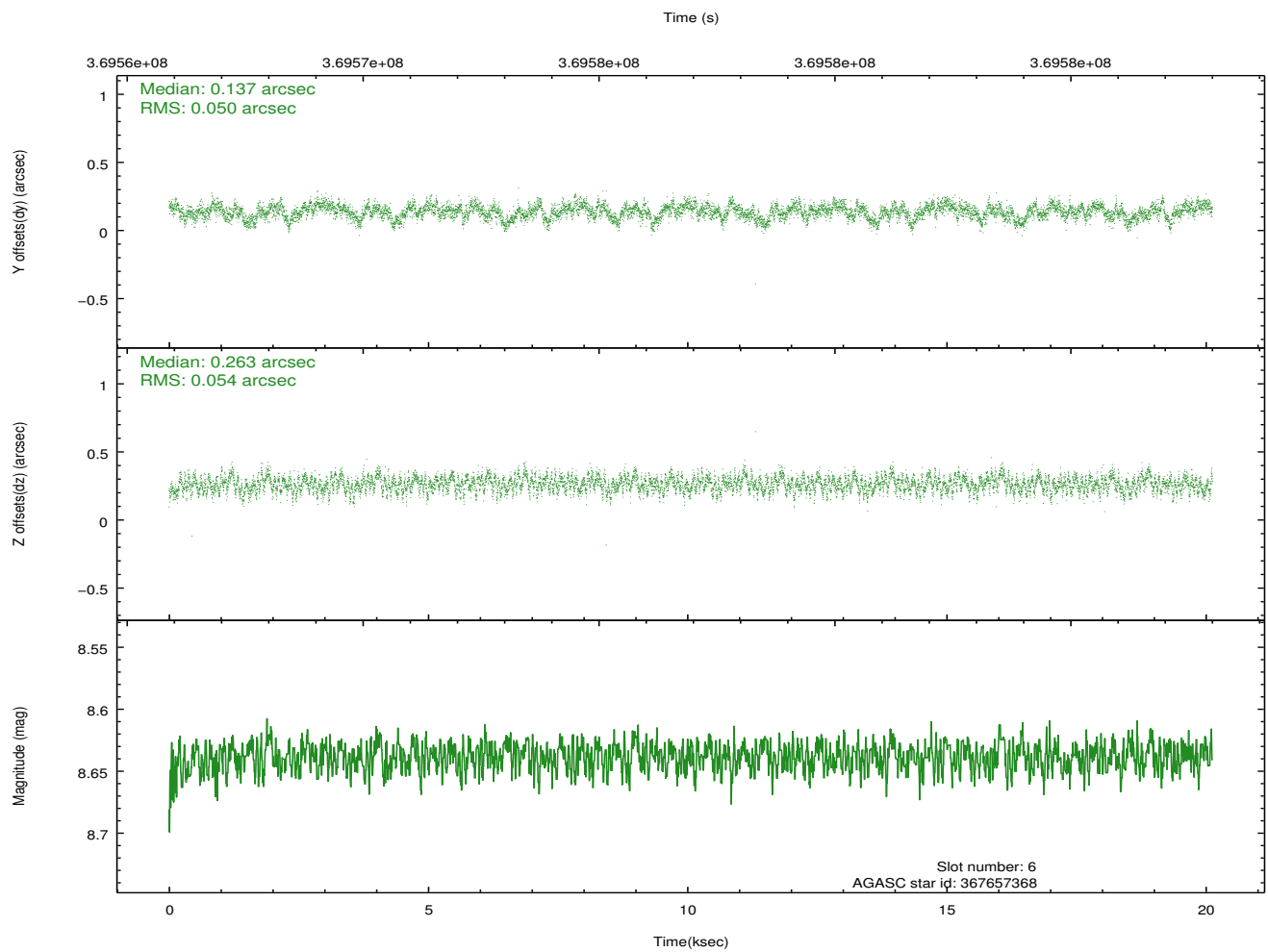
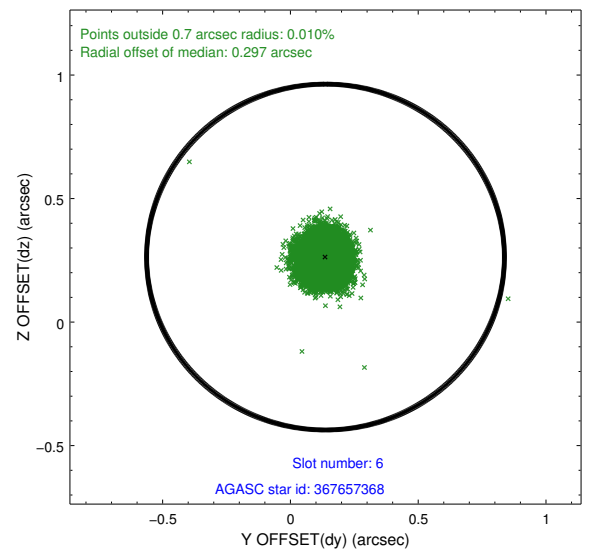
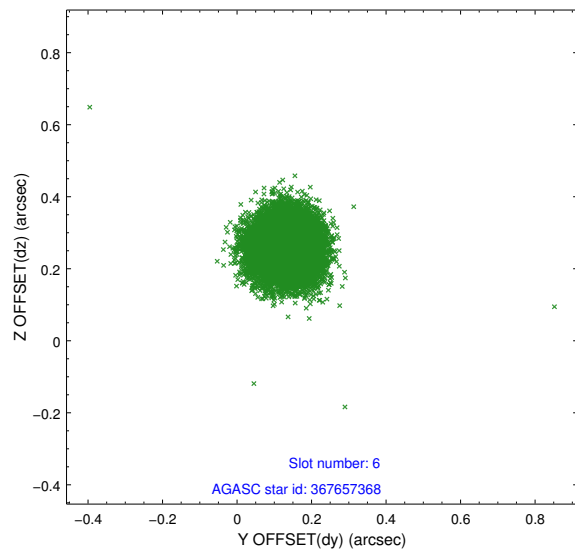
2.4.2 Slot 4



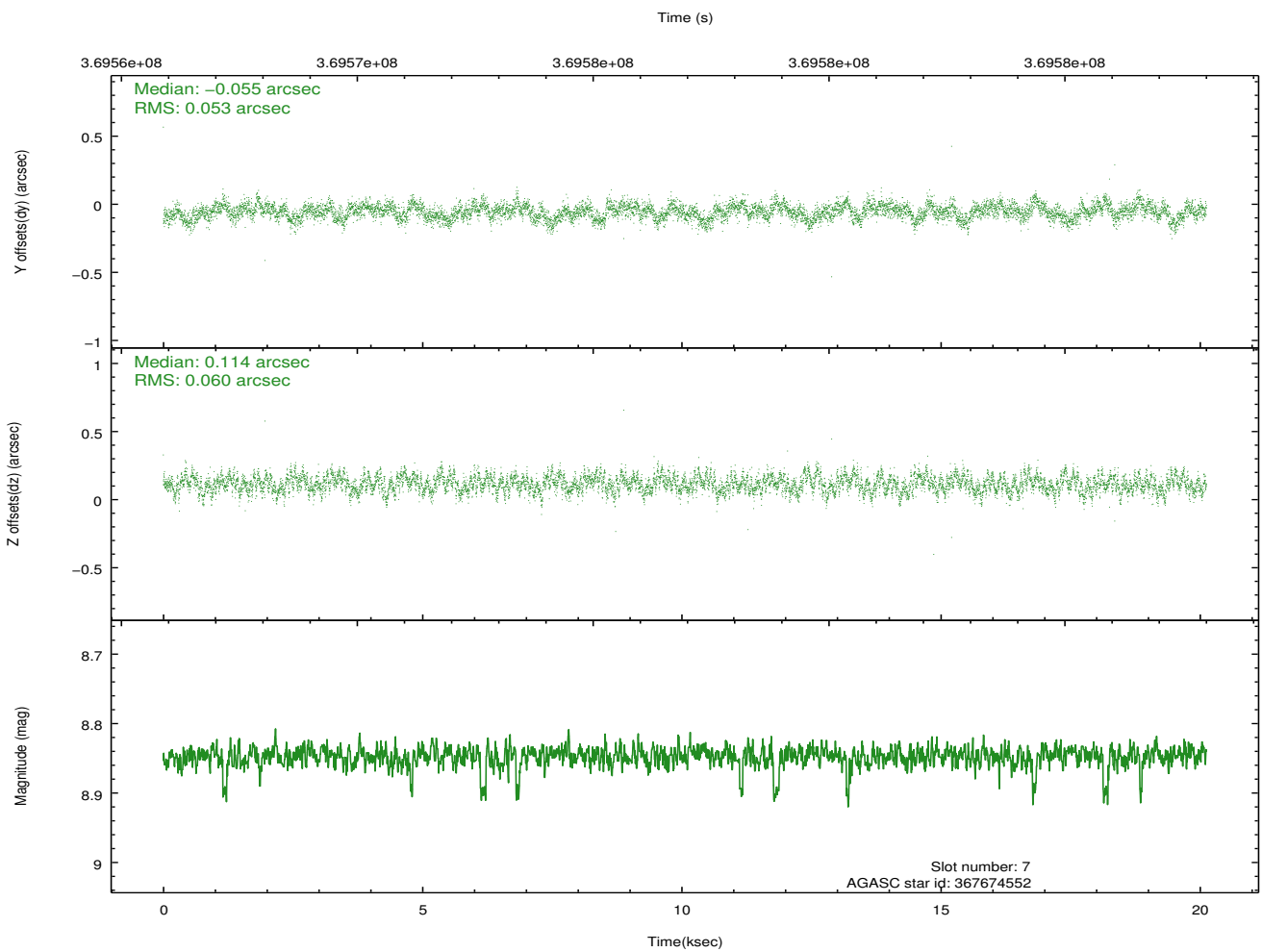
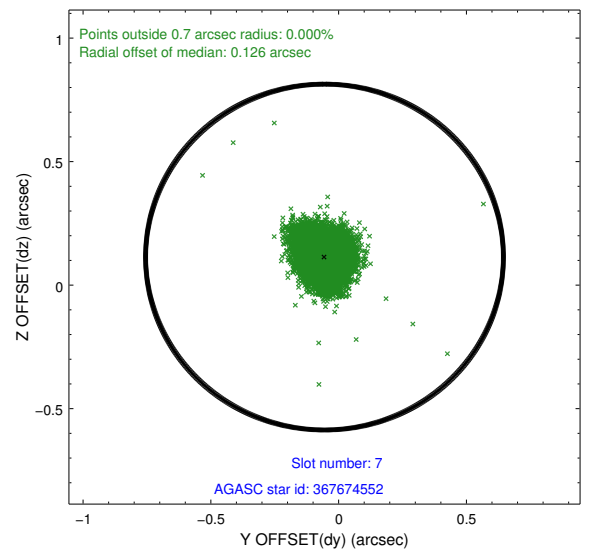
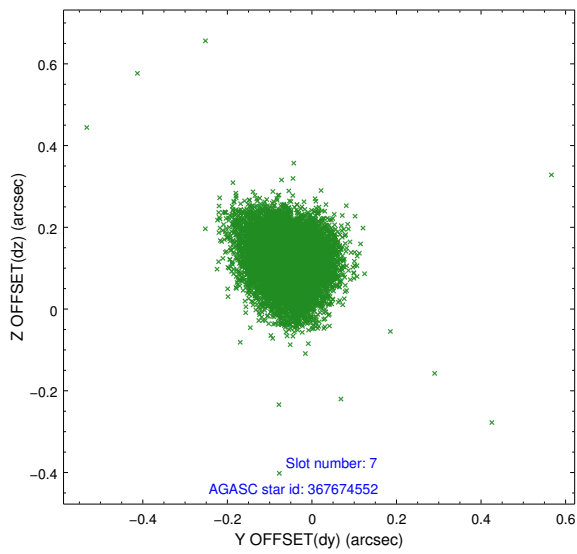
2.4.3 Slot 5



2.4.4 Slot 6

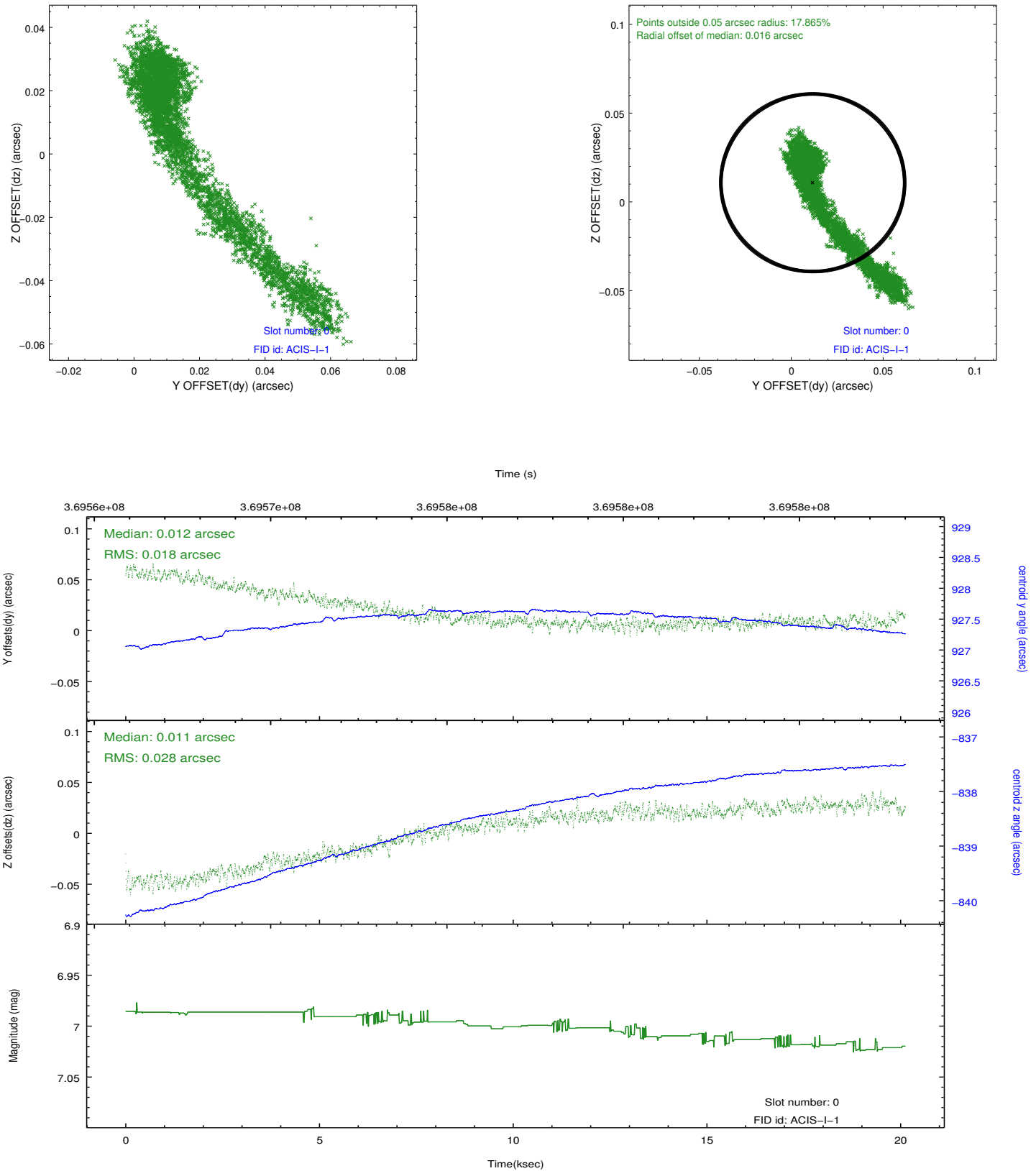


2.4.5 Slot 7

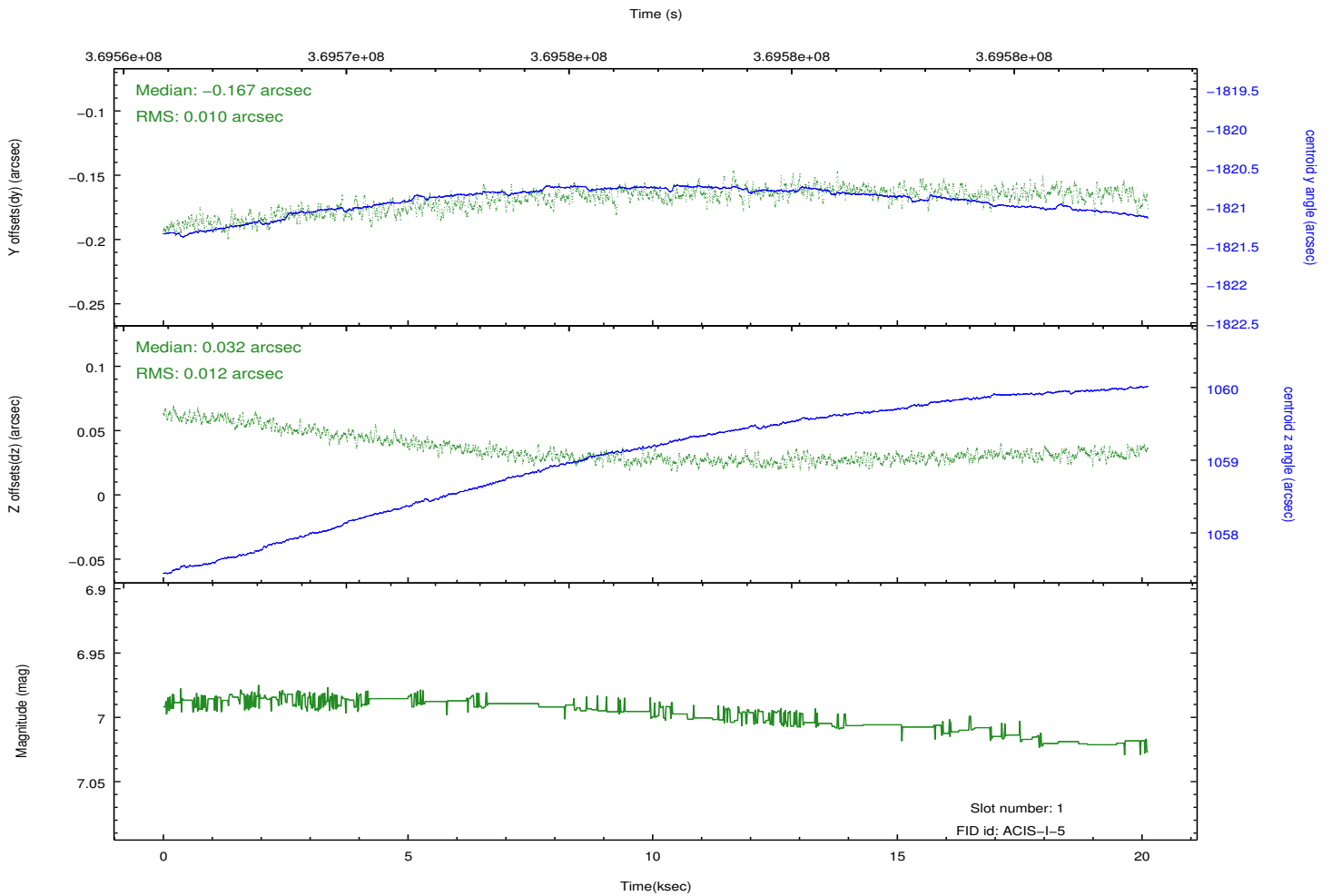
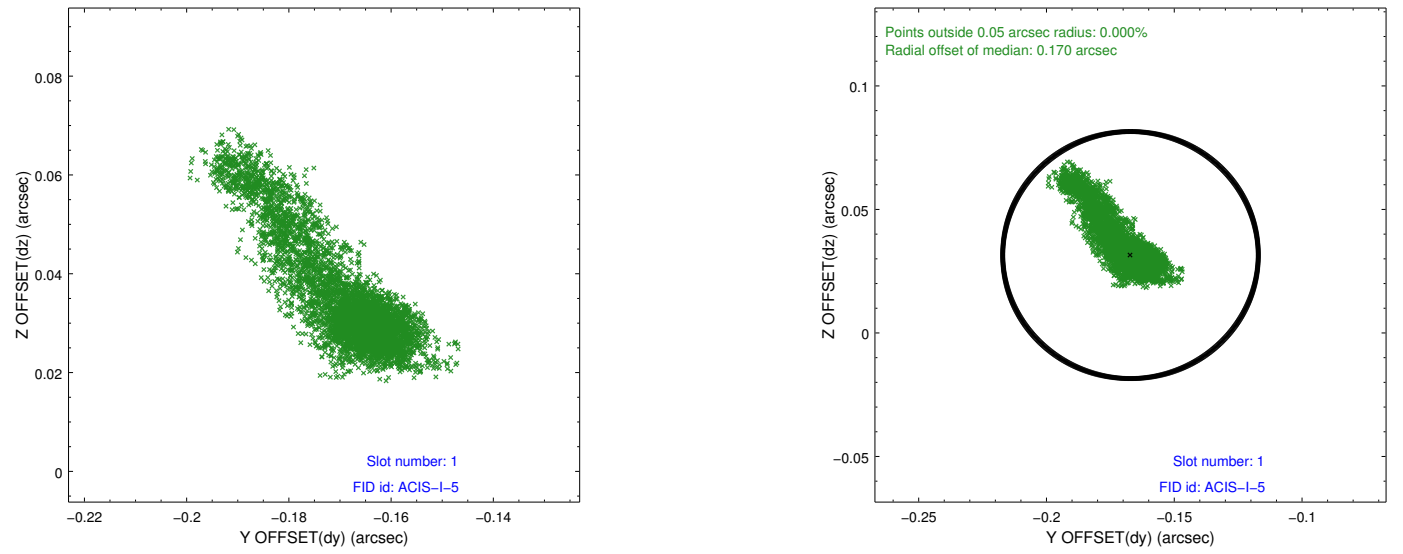


2.5 FID Slots

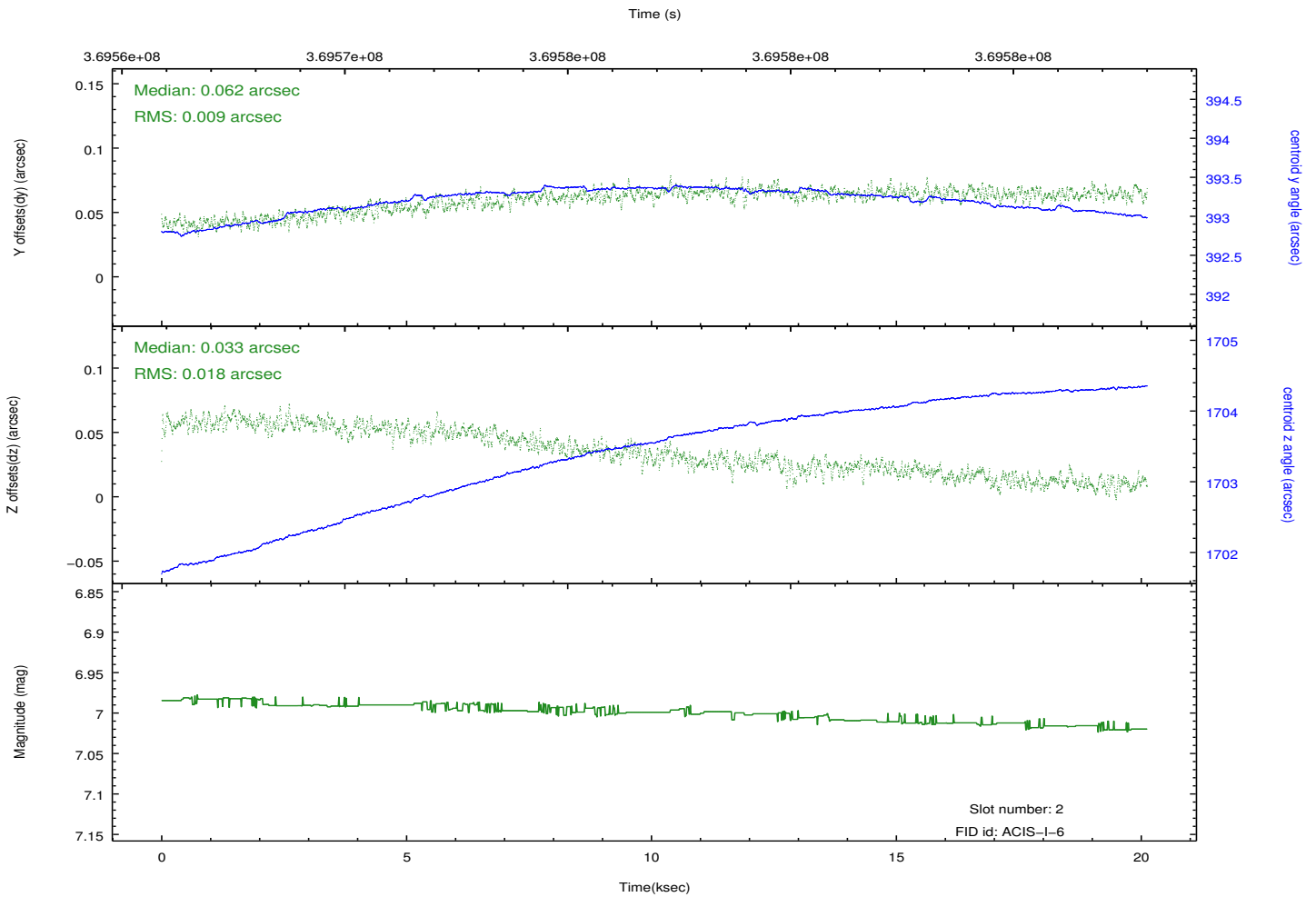
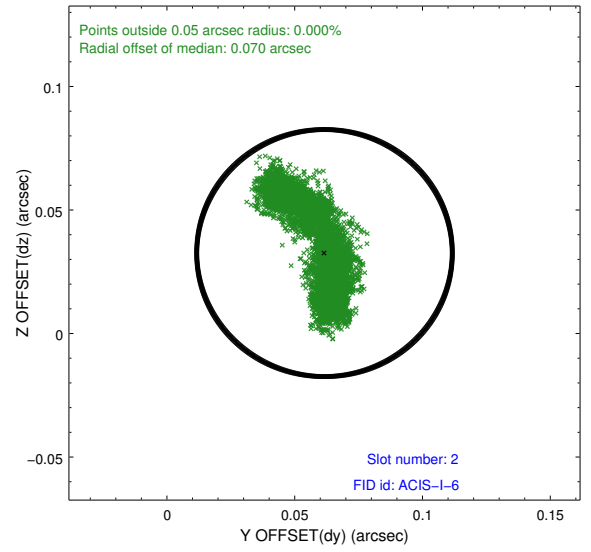
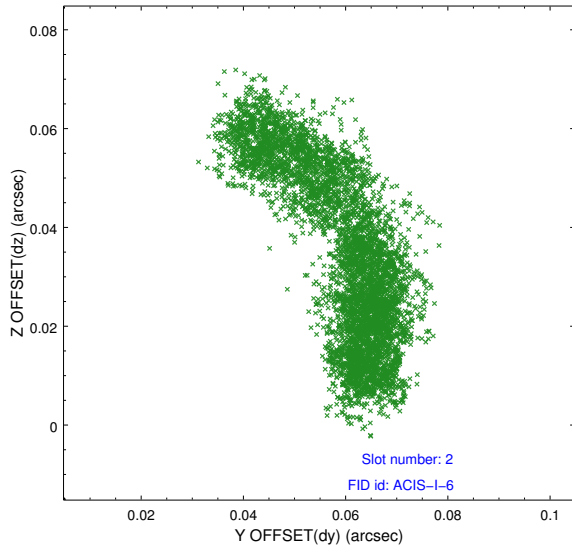
2.5.1 Slot 0



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)	2012.06.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.118399925113

A.2 Comments