

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 15723 - L2 Version 1
Chandra X-Ray Center

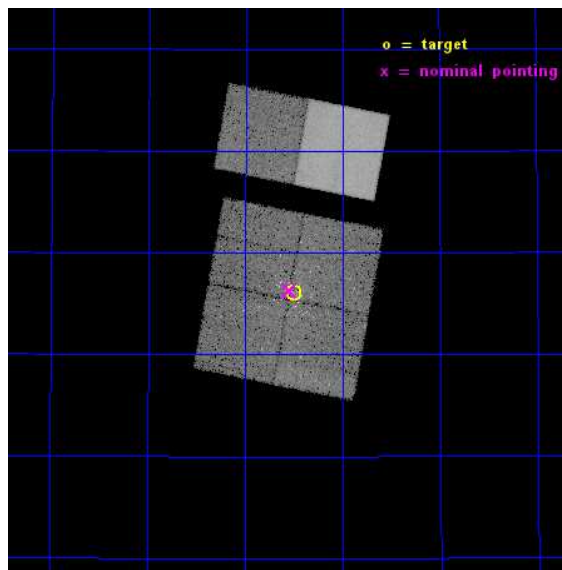
L2 Processing Date : Feb 25 2015

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1 Front

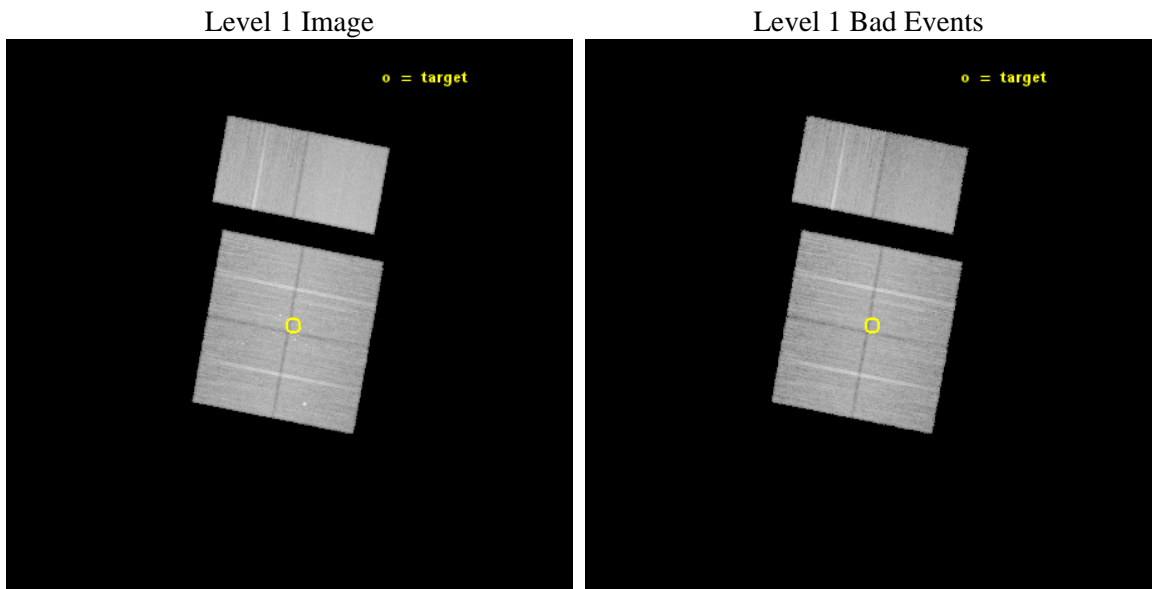
seq_num	200936	Sequence number
obs_id	15723	Observation id
title	Investigating Star-Formation in the Filaments and Bubble of IC 5146	
observer	Michael Kuhn	Principal investigator
object	IC 5146	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	328.37625	Observer's specified target RA [deg]
dec_targ	47.267667	Observer's specified target Dec [deg]
ra_nom	328.38689899769	Nominal RA [deg]
dec_nom	47.271530076813	Nominal Dec [deg]
roll_nom	10.770809990282	Nominal Roll [deg]
revision	1	Processing version of data
ontime	37945.559565067	Sum of GTIs [s]
livetime	37465.070041782	Livetime [s]
ontime0	37948.800565481	Sum of GTIs [s]
ontime1	37945.559585094	Sum of GTIs [s]
ontime2	37945.559585214	Sum of GTIs [s]
ontime3	37945.559565067	Sum of GTIs [s]
ontime6	37948.800565481	Sum of GTIs [s]
ontime7	37948.800565481	Sum of GTIs [s]
l2events	200942	Number of level 2 events



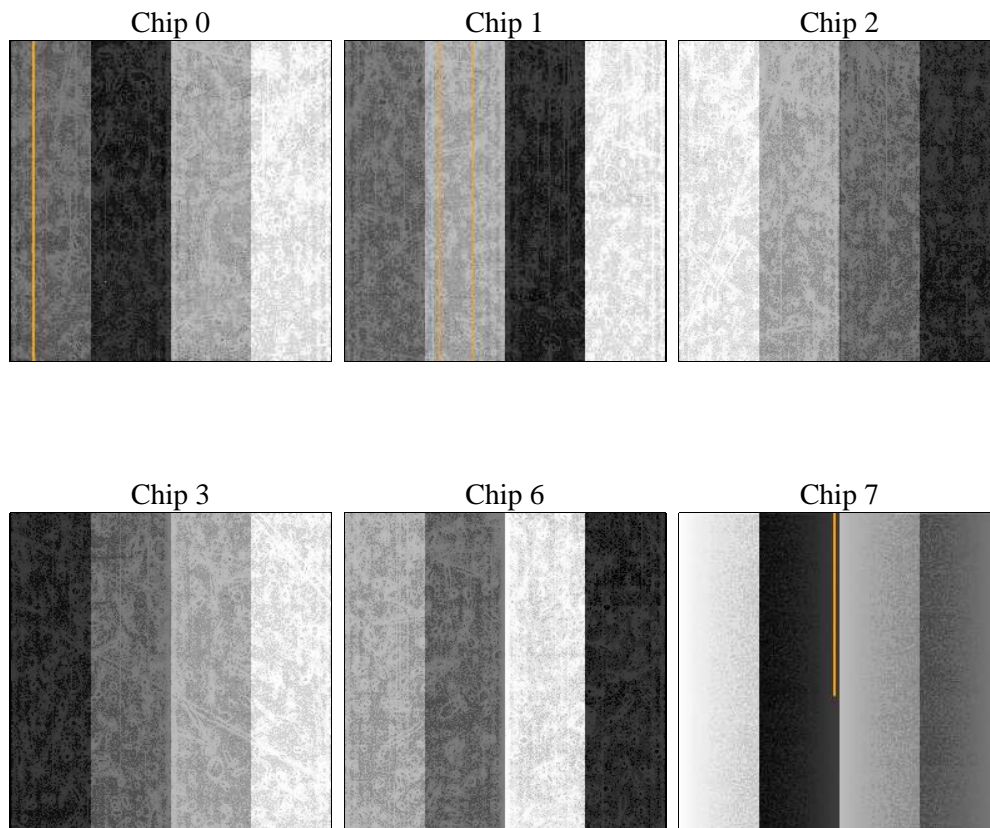
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	37945.559565067	Sum of GTIs [s]
caldbver	4.6.7	 	ontime0	37948.800565481	Sum of GTIs [s]
date	2015-02-25T14:46:55	Date and time of file creation	ontime1	37945.559585094	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	37945.559585214	Sum of GTIs [s]
			ontime3	37945.559565067	Sum of GTIs [s]
			ontime6	37948.800565481	Sum of GTIs [s]
			ontime7	37948.800565481	Sum of GTIs [s]
			l1events	1134911	Number of level 1 events

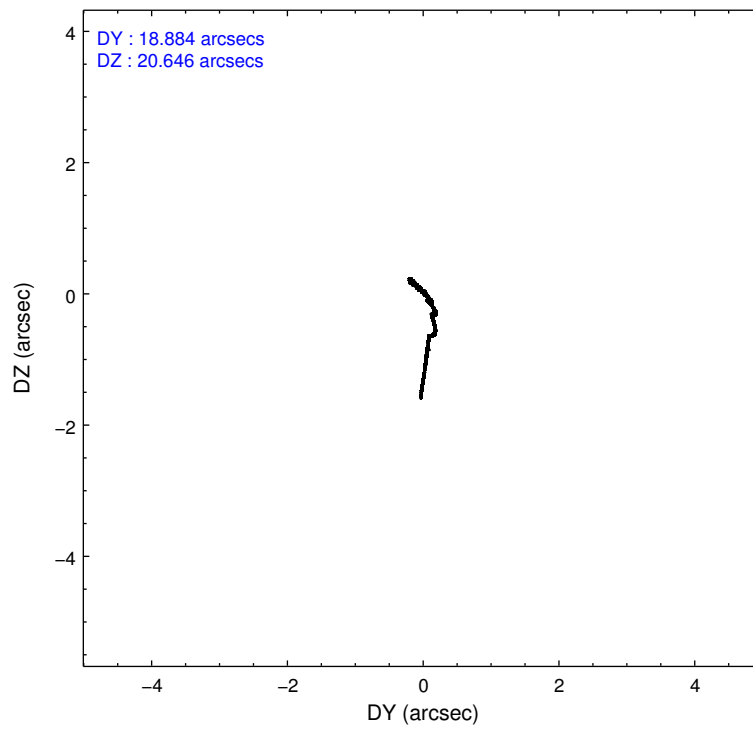
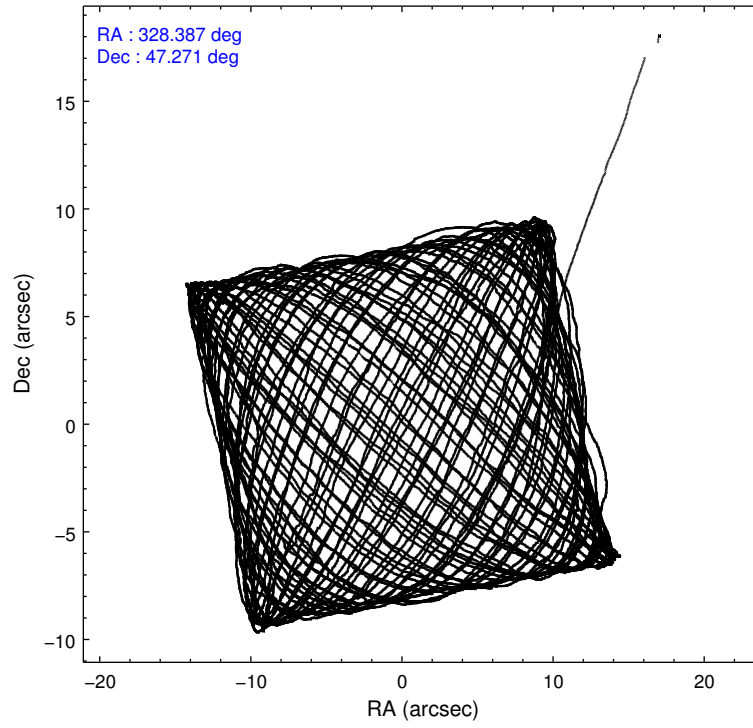
2.1.4 Events

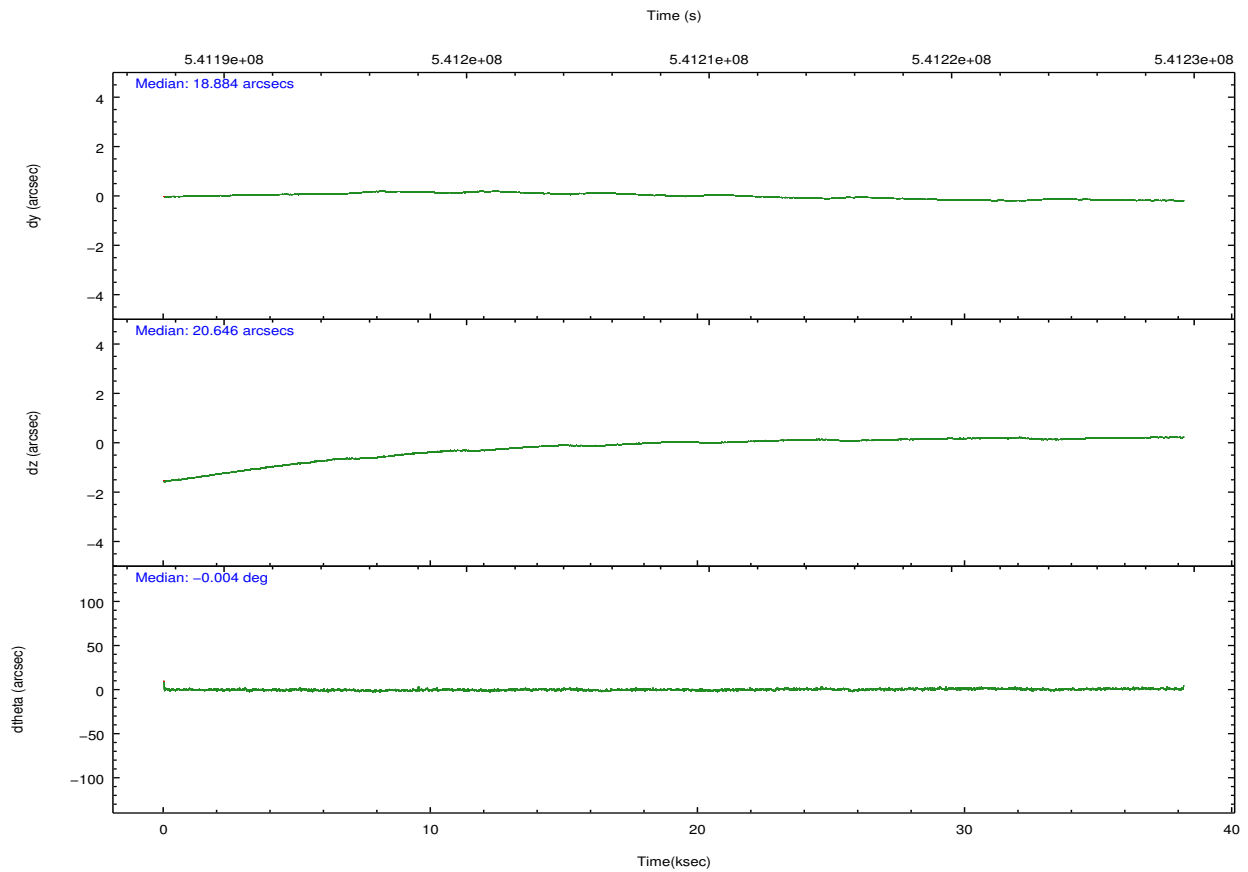
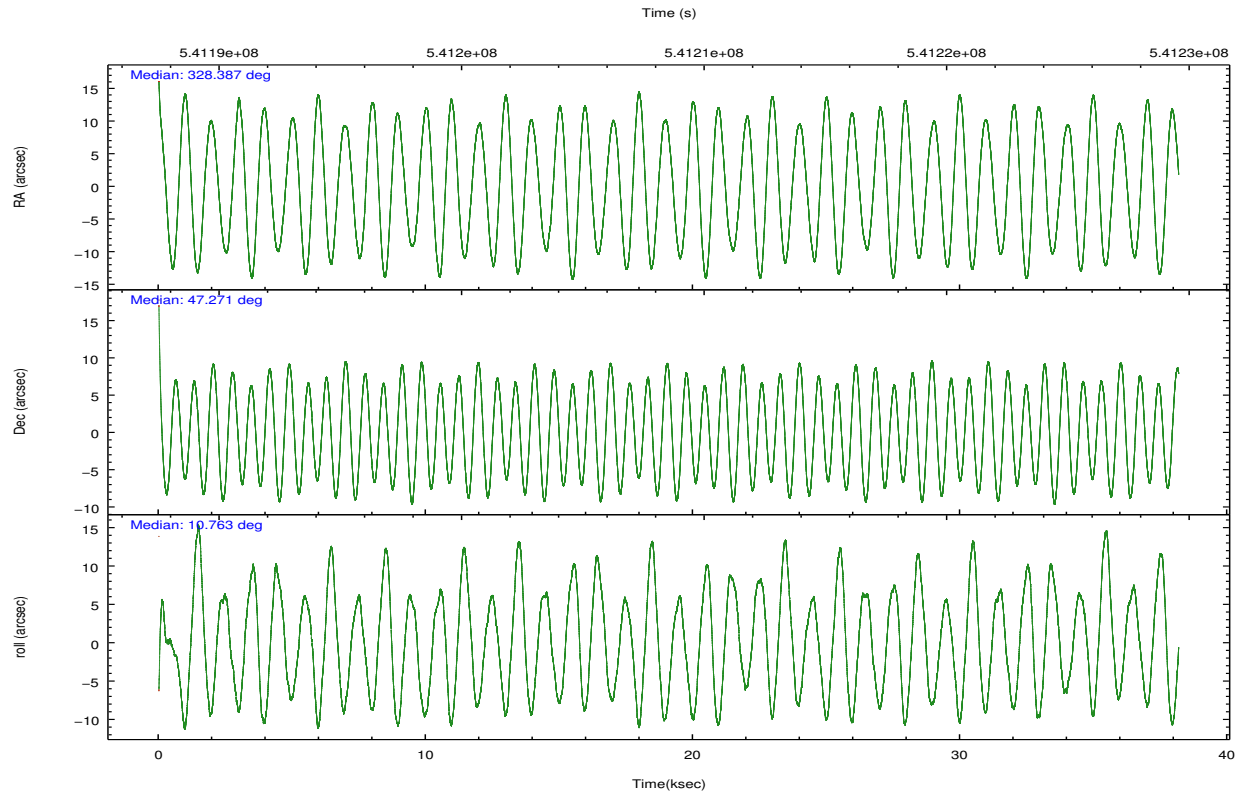
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	163283	173792	185823	178146	189394	244473	grade 0 events	7779	10722	8634	8643	7330	9303
rejected events	141002	147111	163528	155873	167239	137951		4%	6%	4%	4%	3%	3%
rejected %	86%	84%	88%	87%	88%	56%	grade 1 events	86	117	114	118	80	331
								0%	0%	0%	0%	0%	0%
							grade 2 events	5607	6095	5409	4763	5145	22000
								3%	3%	2%	2%	2%	8%
							grade 3 events	2300	2347	2059	2263	2226	9028
								1%	1%	1%	1%	1%	3%
							grade 4 events	2184	2355	2137	2258	2234	8963
								1%	1%	1%	1%	1%	3%
							grade 5 events	8345	8846	7682	9655	9873	25425
								5%	5%	4%	5%	5%	10%
							grade 6 events	4411	5167	4058	4353	5225	57250
								2%	2%	2%	2%	2%	23%
							grade 7 events	132571	138143	155730	146093	157281	112173
								81%	79%	83%	82%	83%	45%

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	328.356193	328.386898997691	CCD I2 on	Y	Y
[deg] Pointing Dec	47.253424	47.27153007681267	CCD I3 on	Y	Y
[deg] Pointing Roll	10.584679	10.77080999028204	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	541189644.184000	541188417.36616	CCD S5 on	N	N
Observation start date	2015-02-24T18:26:17	2015-02-24T18:06:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	541227644.184000	541229157.01846	On-chip summing requested	N	N
Observation end date	2015-02-25T04:59:37	2015-02-25T05:25:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



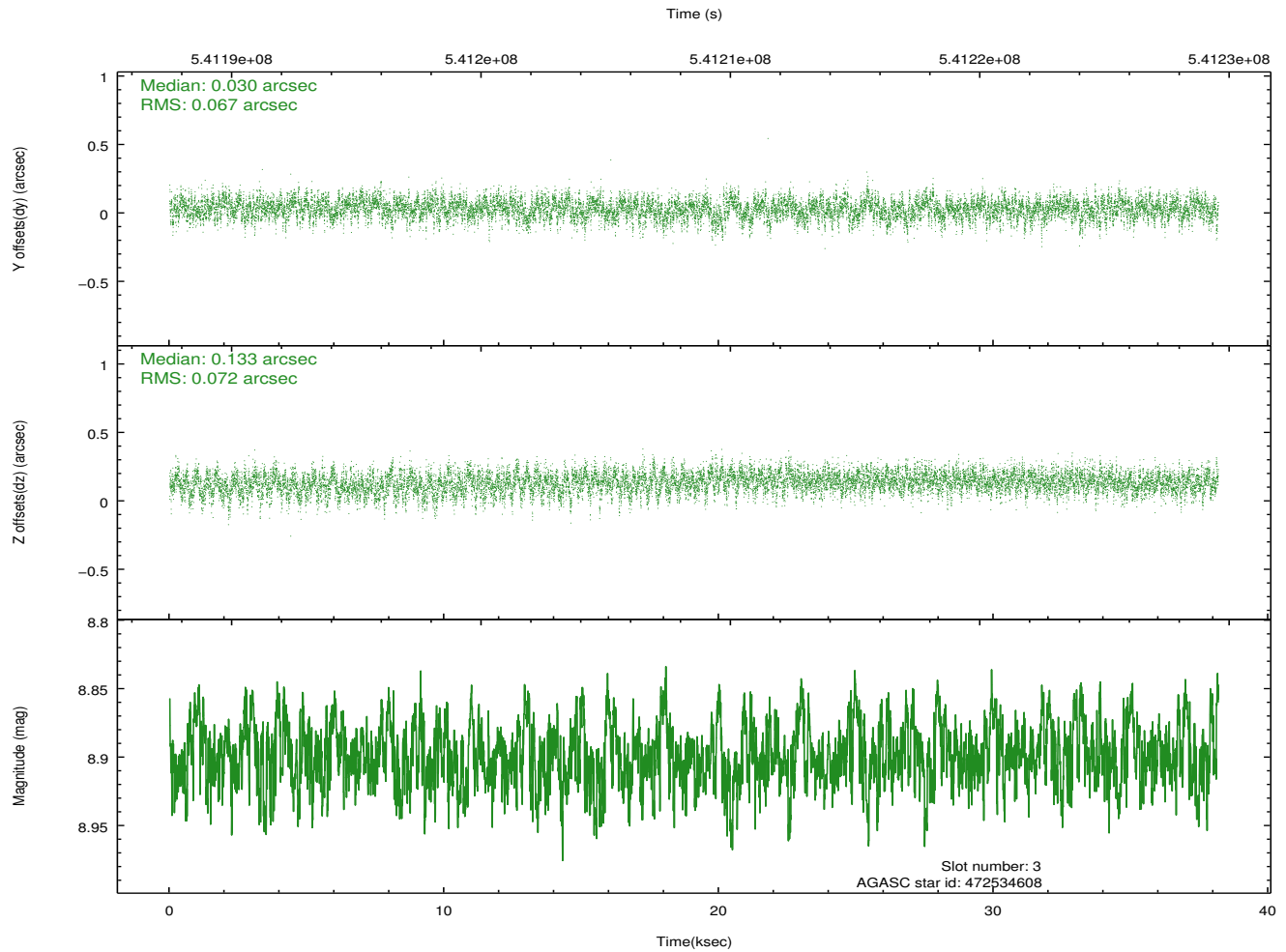
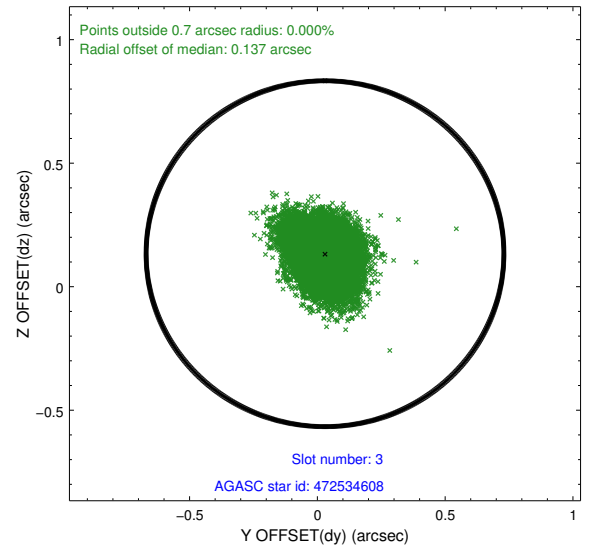
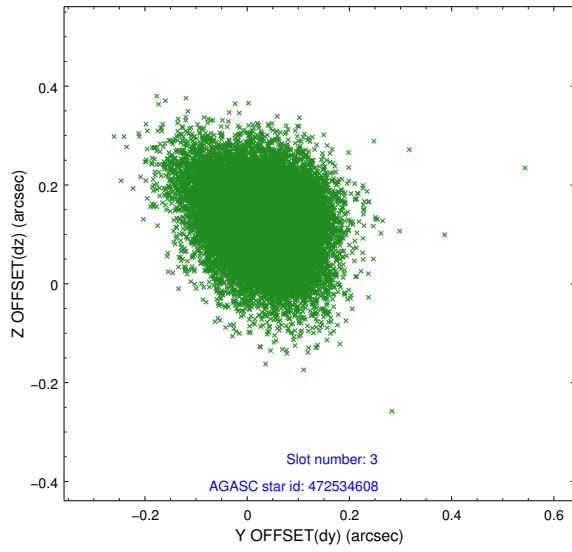


Slot Statistics

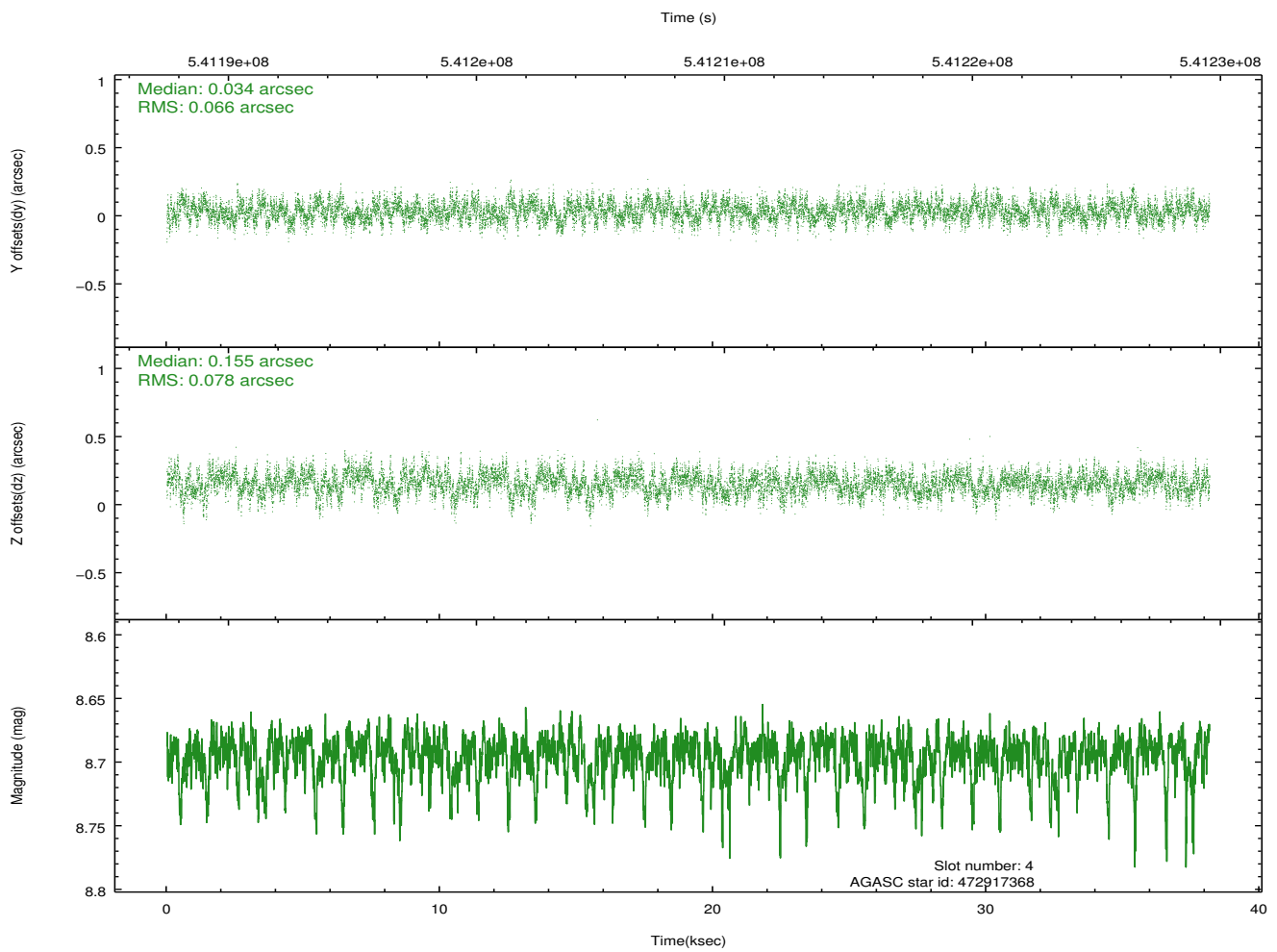
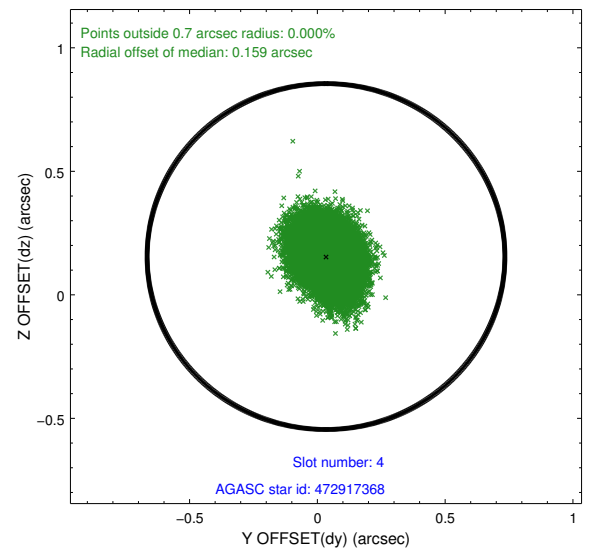
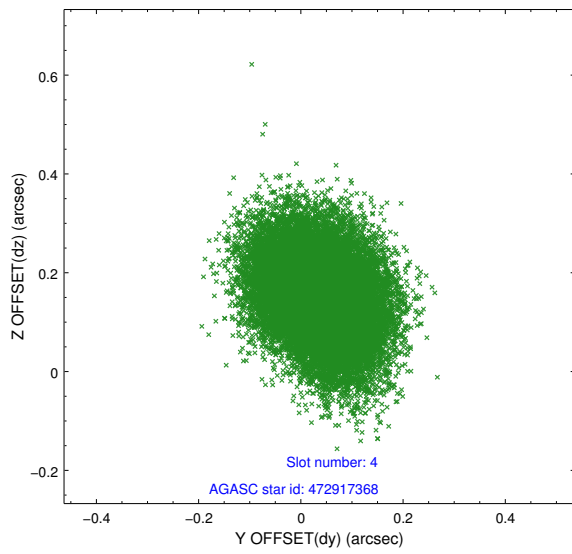
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.04	9310	-0.136	-0.065	0.011	0.019	0.000000	0.000000	-773.80	-850.63
1	FID		ACIS-I-4	7.05	9311	0.337	0.094	0.010	0.022	0.000000	0.000000	2140.66	1055.78
2	FID		ACIS-I-5	7.11	9312	-0.301	0.039	0.012	0.027	0.000000	0.000000	-1827.83	1053.48
3	GUIDE	used	472534608	8.90	18618	0.030	0.133	0.104	0.173	329.093788	46.693777	1422.50	-2306.19
4	GUIDE	used	472917368	8.70	18615	0.034	0.155	0.110	0.175	327.923434	47.137070	-1117.57	-214.10
5	GUIDE	used	472919944	7.49	18617	-0.153	0.043	0.095	0.146	328.566193	47.001346	340.04	-986.29
6	GUIDE	used	472920272	8.10	18619	-0.147	-0.266	0.090	0.144	328.801263	47.450533	1196.45	501.42
7	GUIDE	used	472535032	8.02	18620	0.229	-0.055	0.127	0.197	329.463997	46.864444	2427.68	-1857.95

2.4 Star Slots

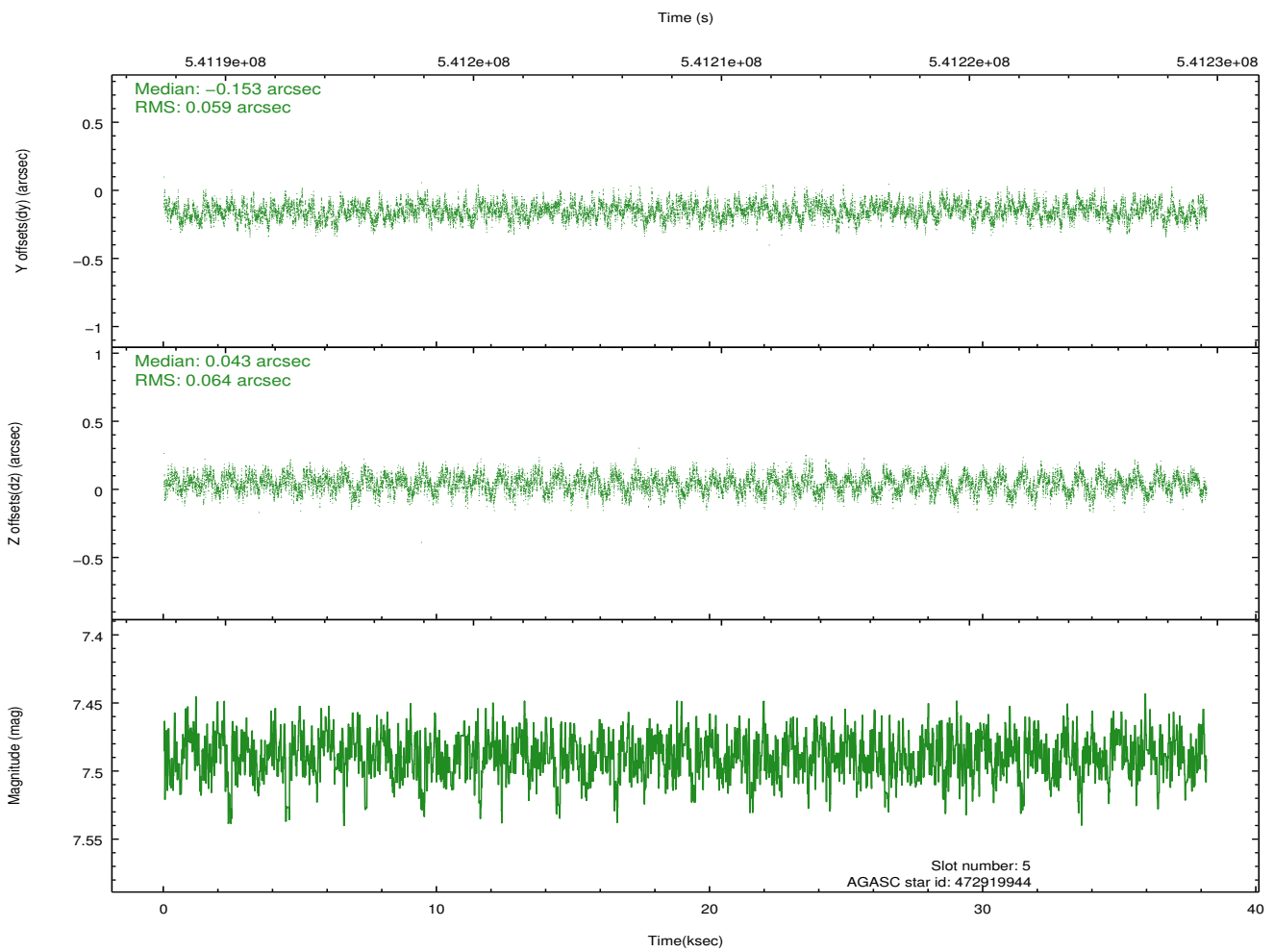
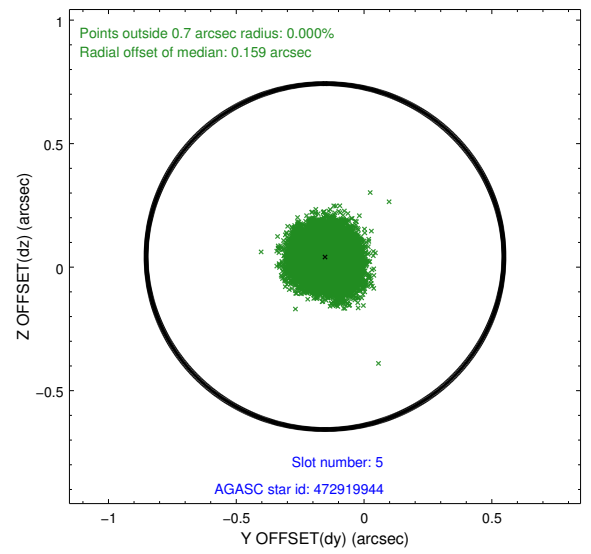
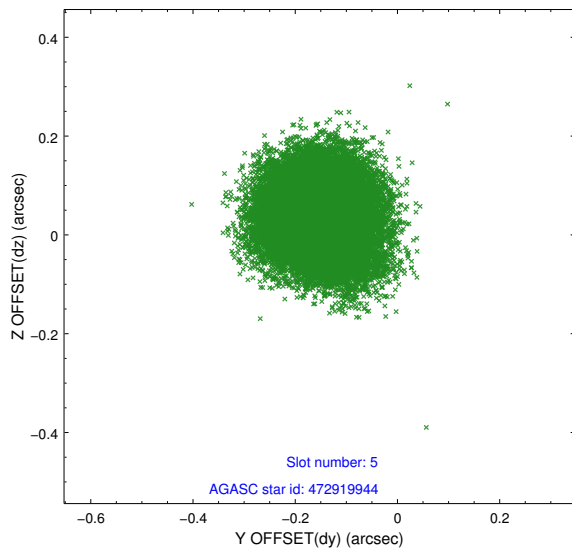
2.4.1 Slot 3



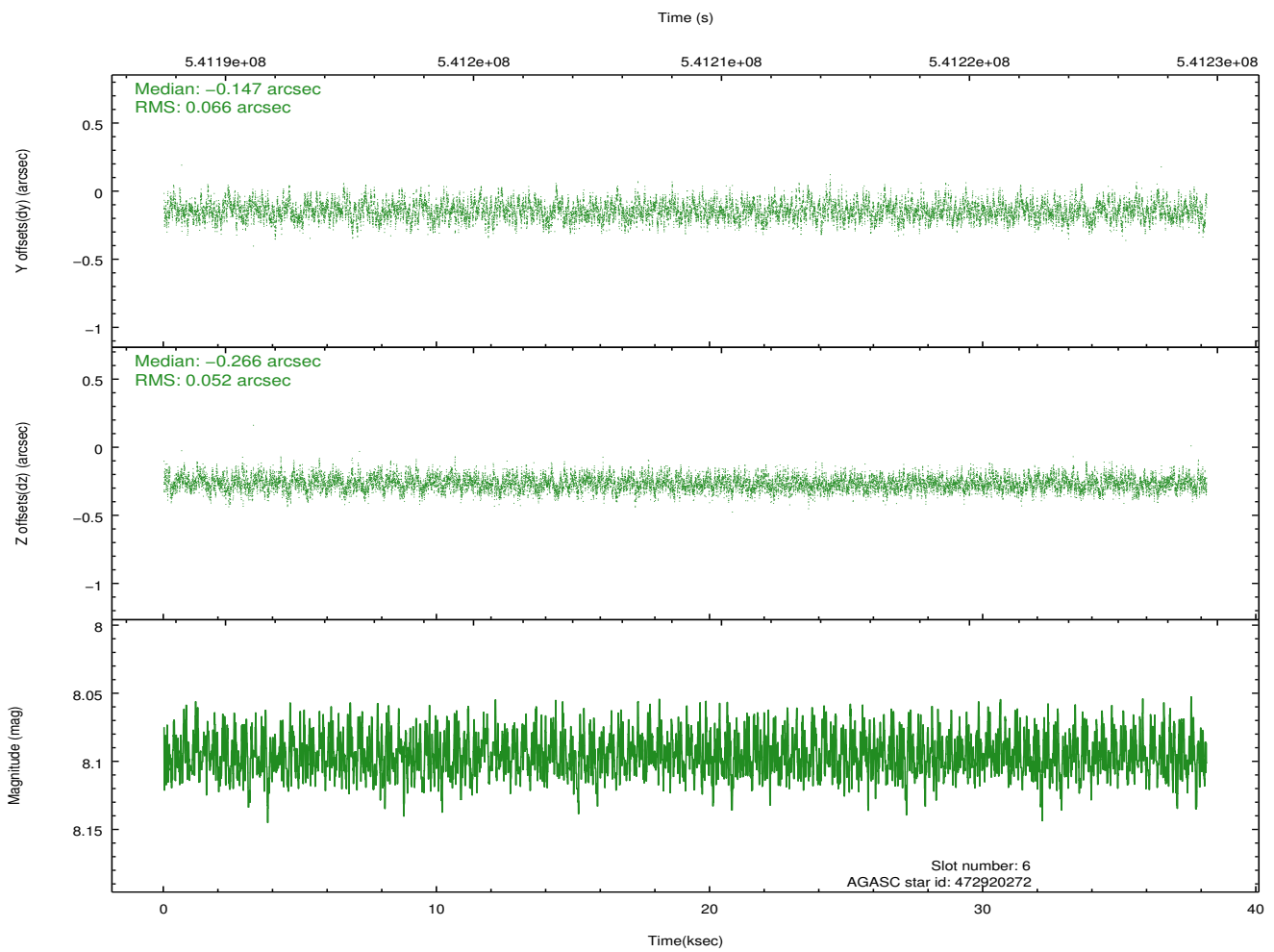
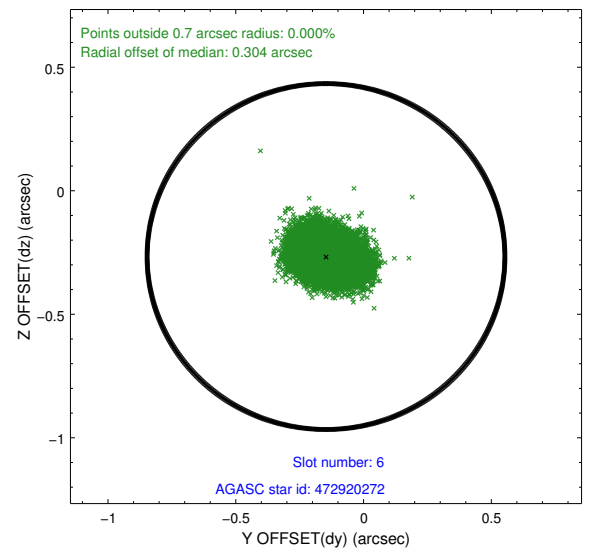
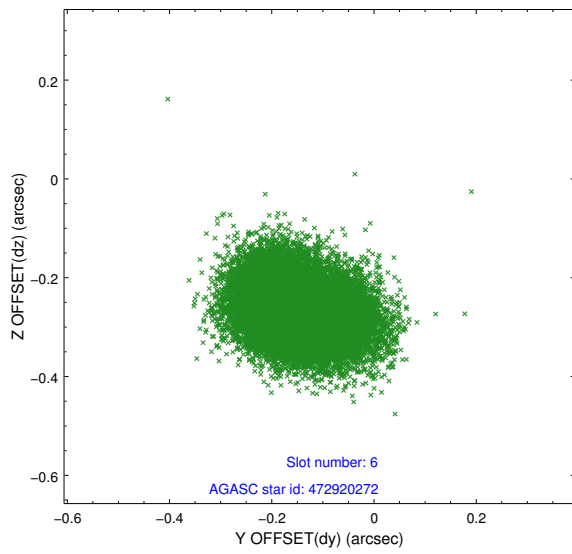
2.4.2 Slot 4



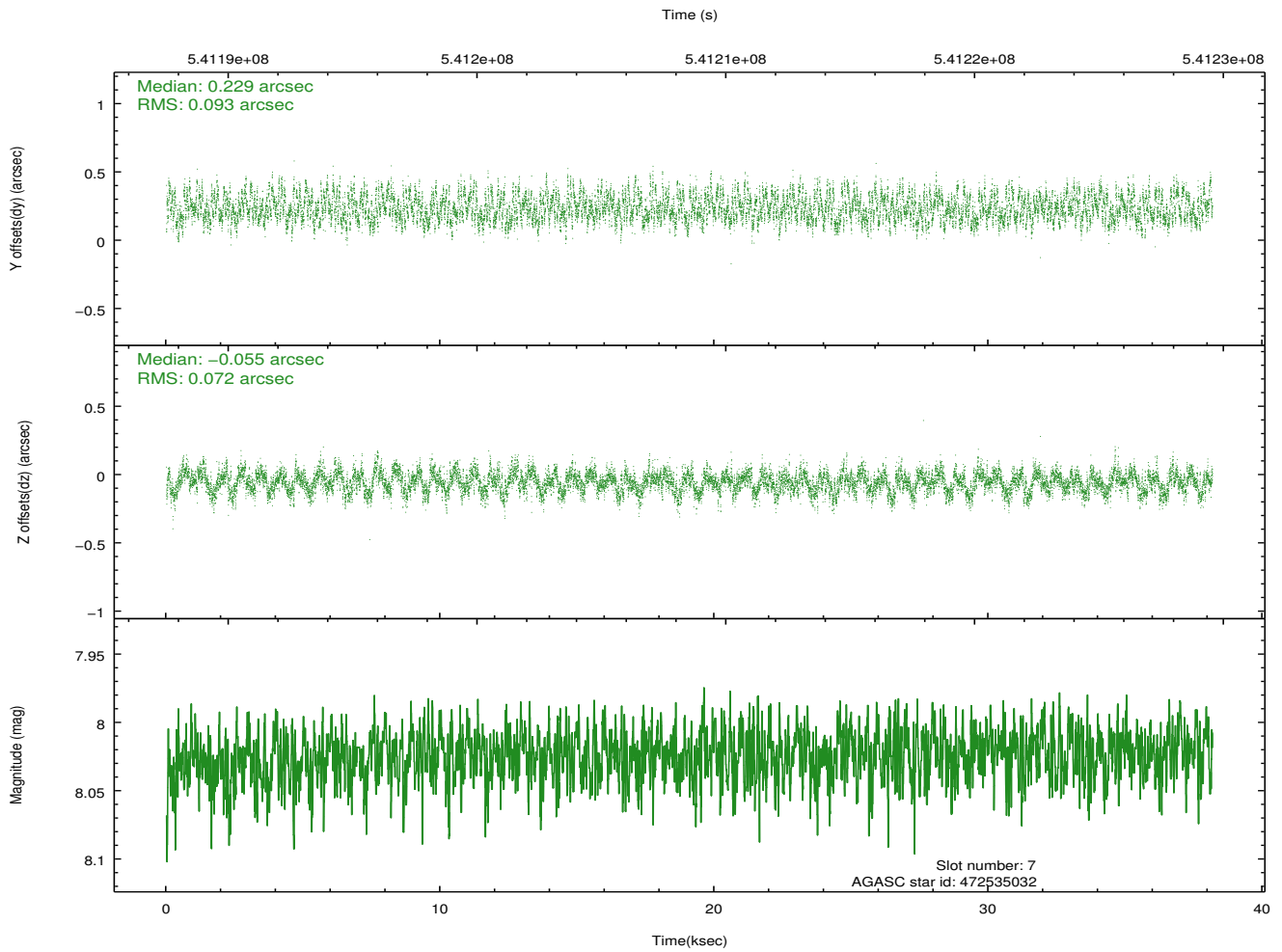
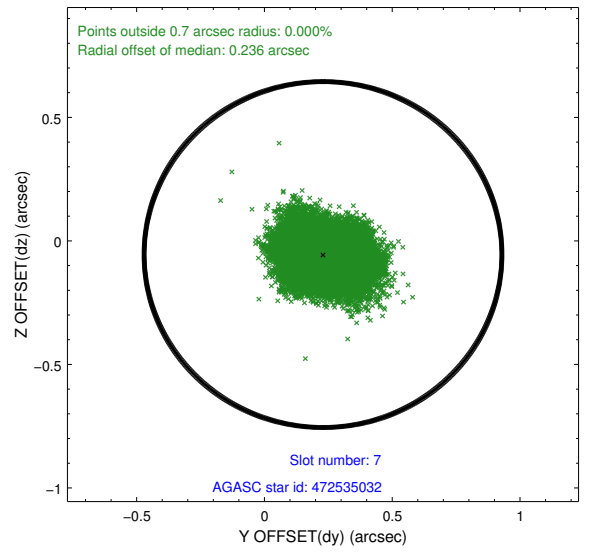
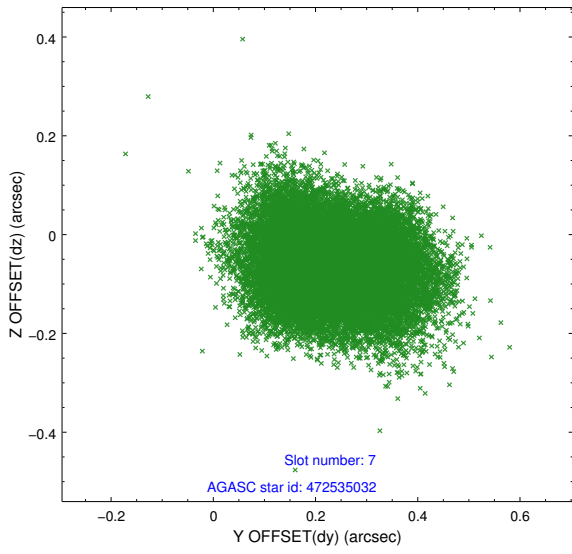
2.4.3 Slot 5



2.4.4 Slot 6

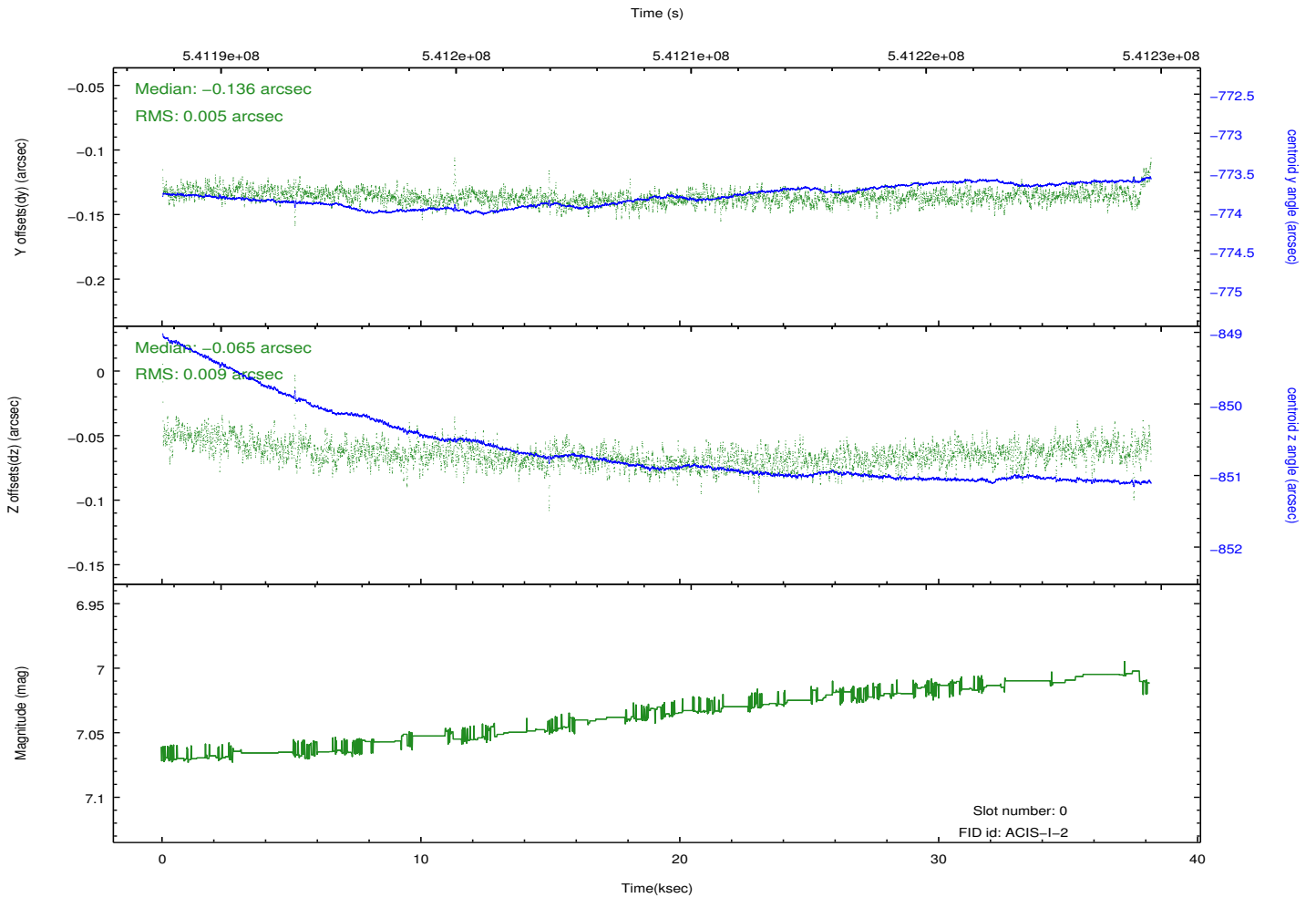
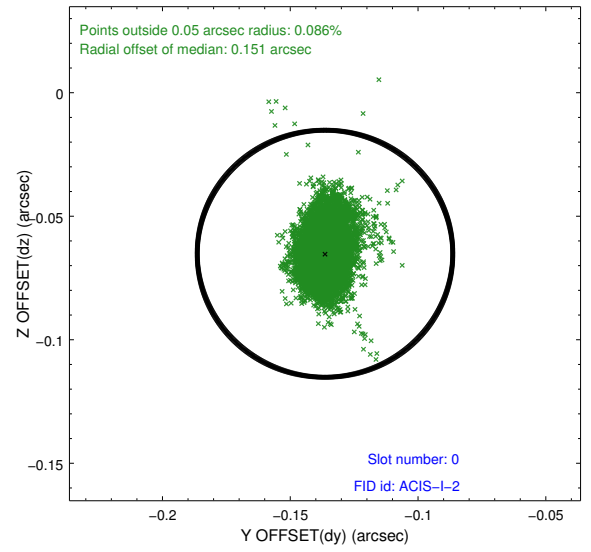
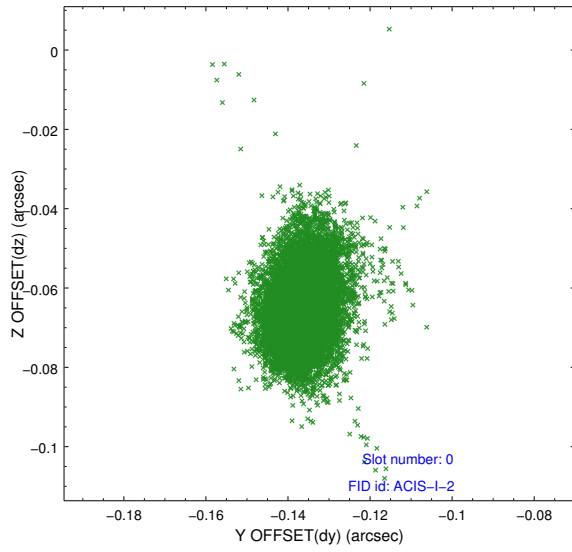


2.4.5 Slot 7

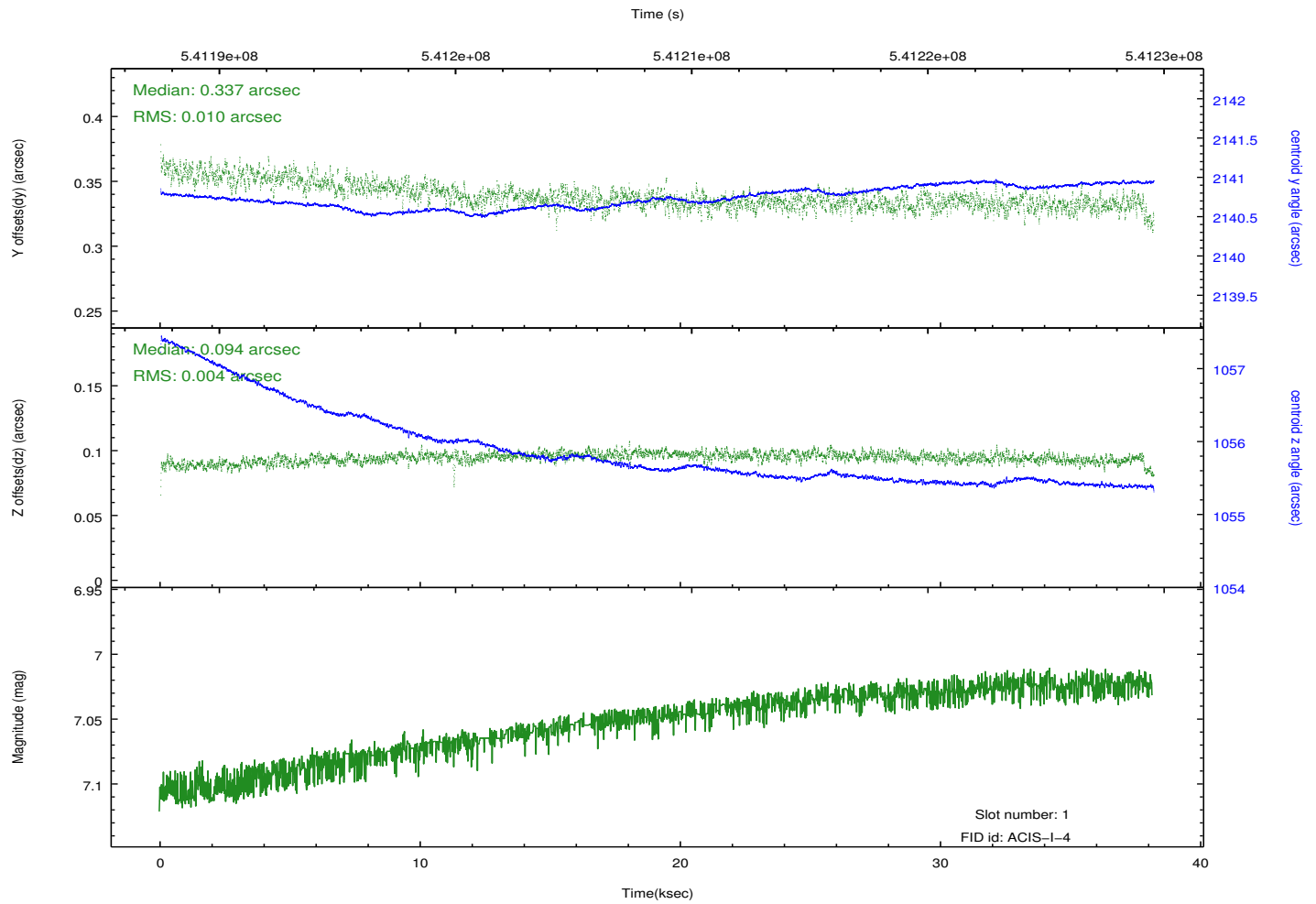
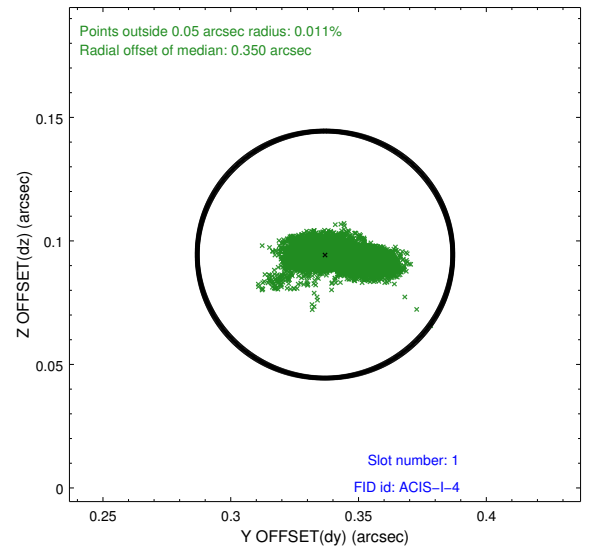
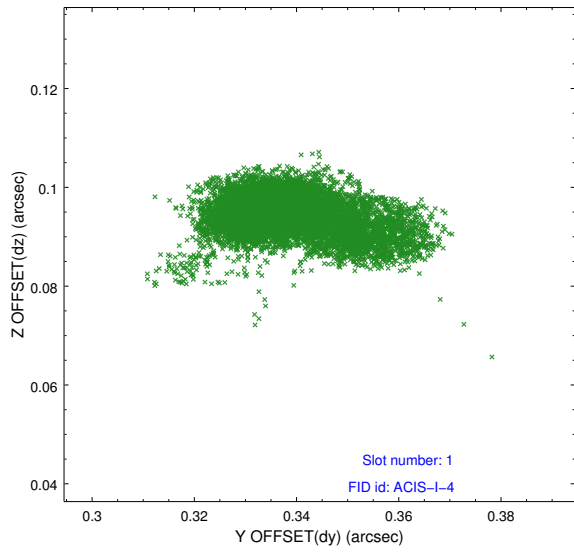


2.5 FID Slots

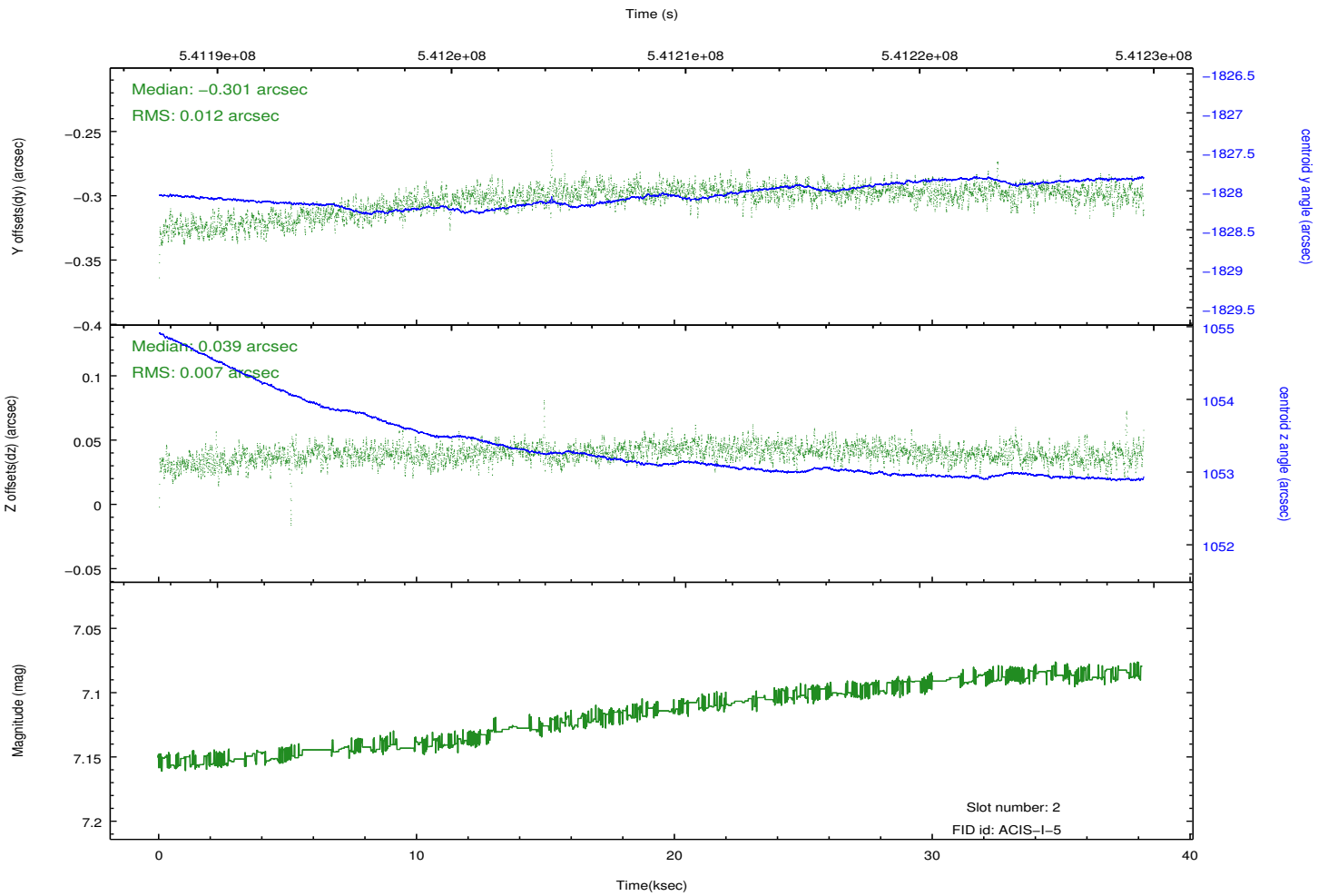
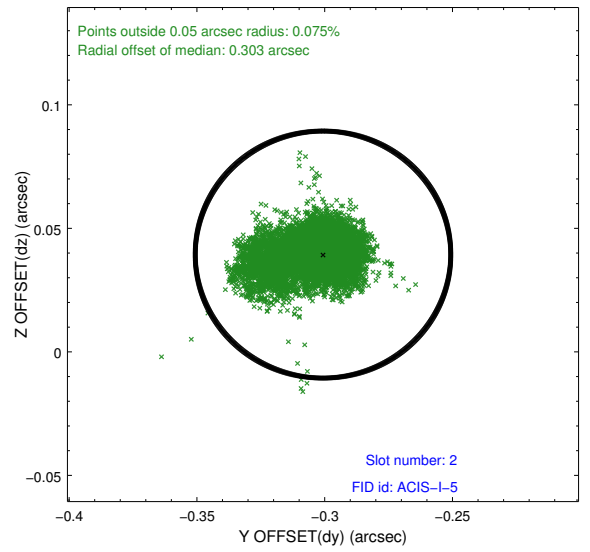
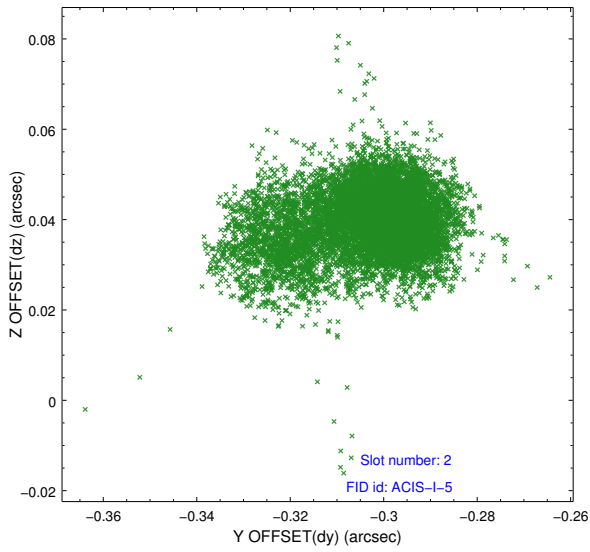
2.5.1 Slot 0



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)	2015.02.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.945559565067

A.2 Comments