

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13834 - L2 Version 2
Chandra X-Ray Center

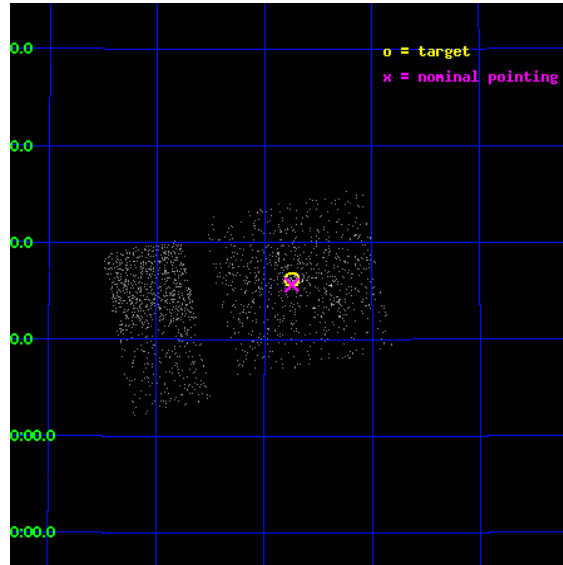
L2 Processing Date : Feb 27 2012

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1 Front

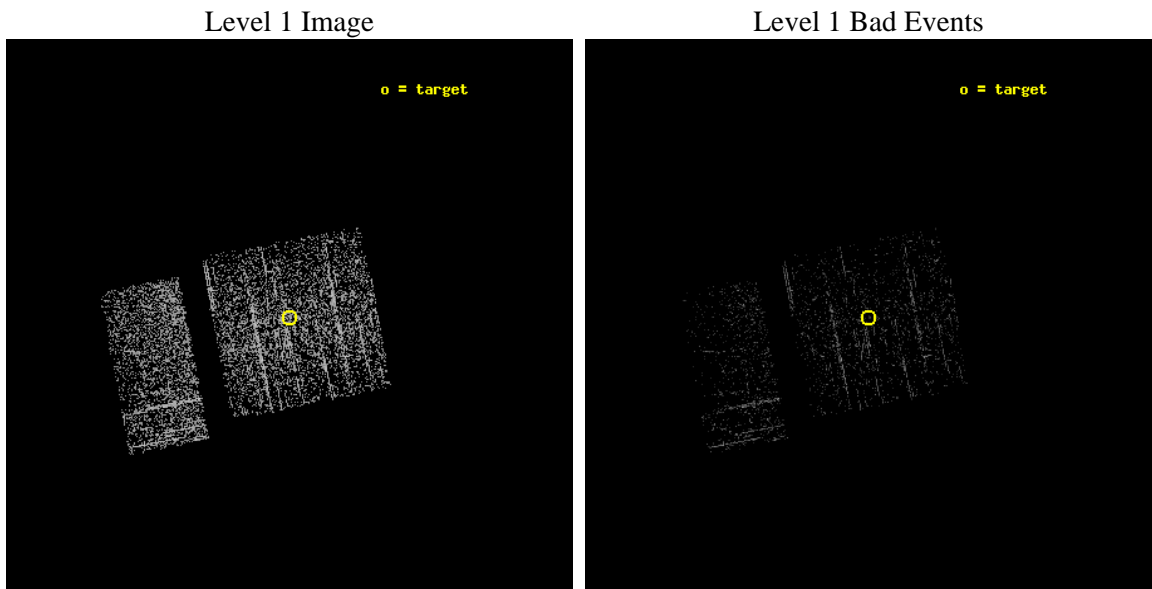
seq_num	601008	Sequence number
obs_id	13834	Observation id
title	Monitoring M31 for BHXNe	Proposal title
observer	Dr Michael Garcia	Principal investigator
object	M31 BHXN	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar]
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.686279834316	Nominal RA [deg]
dec_nom	41.260849196324	Nominal Dec [deg]
roll_nom	259.04385137827	Nominal Roll [deg]
revision	2	Processing version of data
ontime	922.18971759081	Sum of GTIs [s]
livetime	145.17490621575	Livetime [s]
ontime0	922.18971759081	Sum of GTIs [s]
ontime1	922.18971759081	Sum of GTIs [s]
ontime2	922.18971759081	Sum of GTIs [s]
ontime3	922.18971759081	Sum of GTIs [s]
ontime6	922.18971759081	Sum of GTIs [s]
ontime7	922.18971759081	Sum of GTIs [s]
l2events	2109	Number of level 2 events



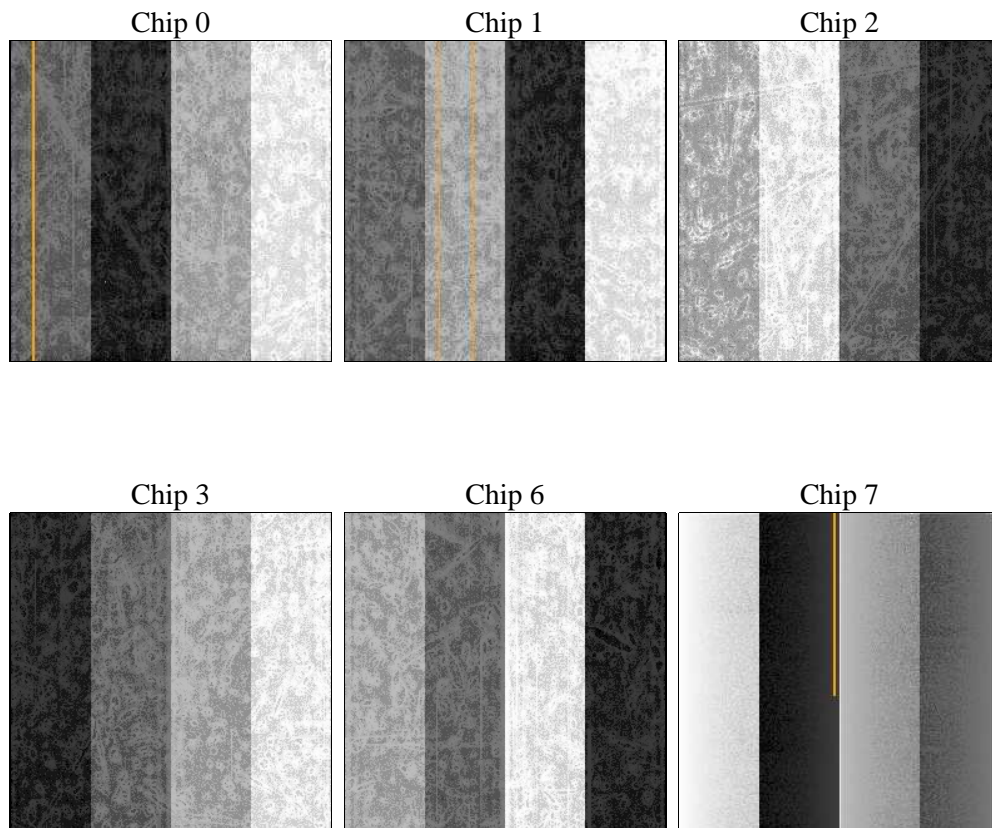
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	922.18971759081	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	922.18971759081	Sum of GTIs [s]
date	2012-02-27T11:57:09	Date and time of file creation	ontime1	922.18971759081	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	922.18971759081	Sum of GTIs [s]
			ontime3	922.18971759081	Sum of GTIs [s]
			ontime6	922.18971759081	Sum of GTIs [s]
			ontime7	922.18971759081	Sum of GTIs [s]
			l1events	16500	Number of level 1 events

2.1.4 Events

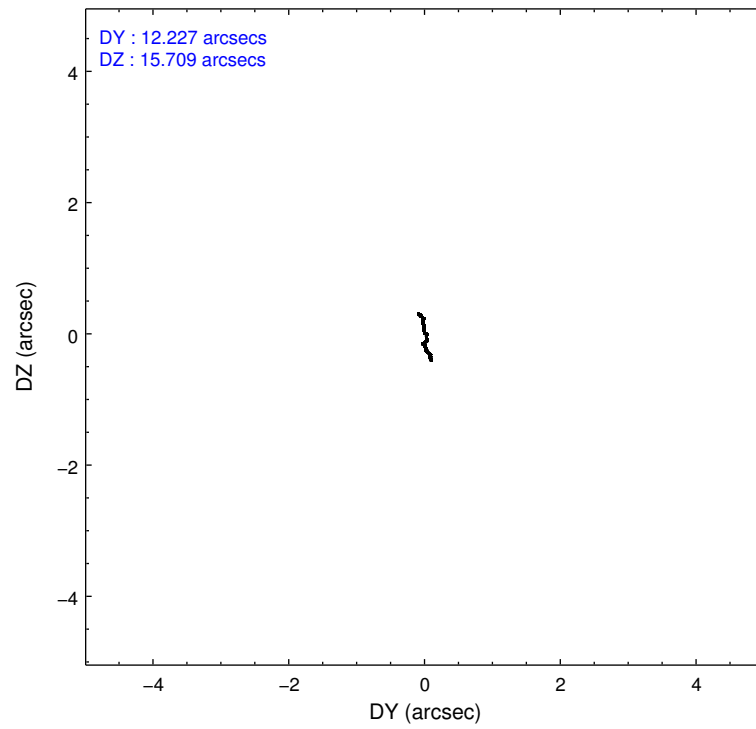
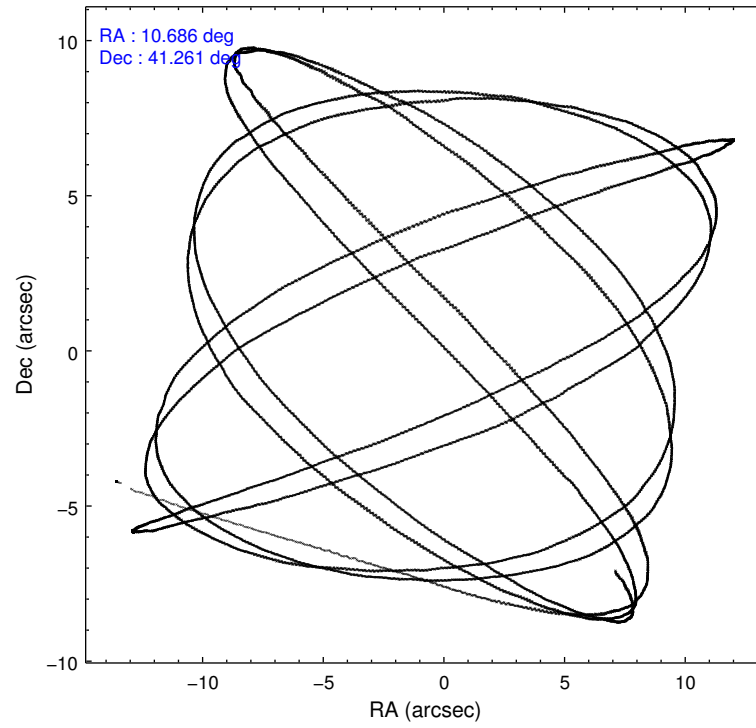
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	2734	2400	2968	2710	3024	2664
rejected events	2418	2017	2718	2310	2775	1875
rejected %	88%	84%	91%	85%	91%	70%

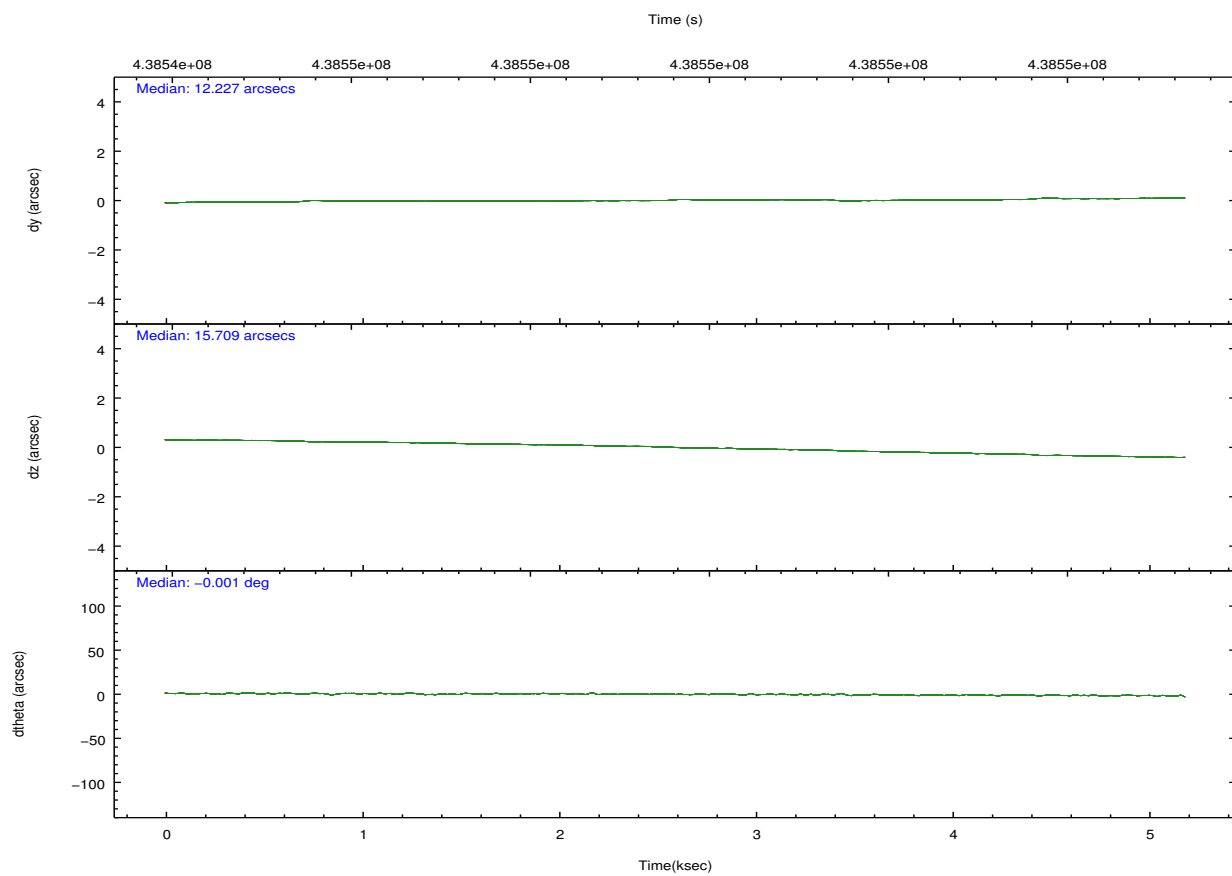
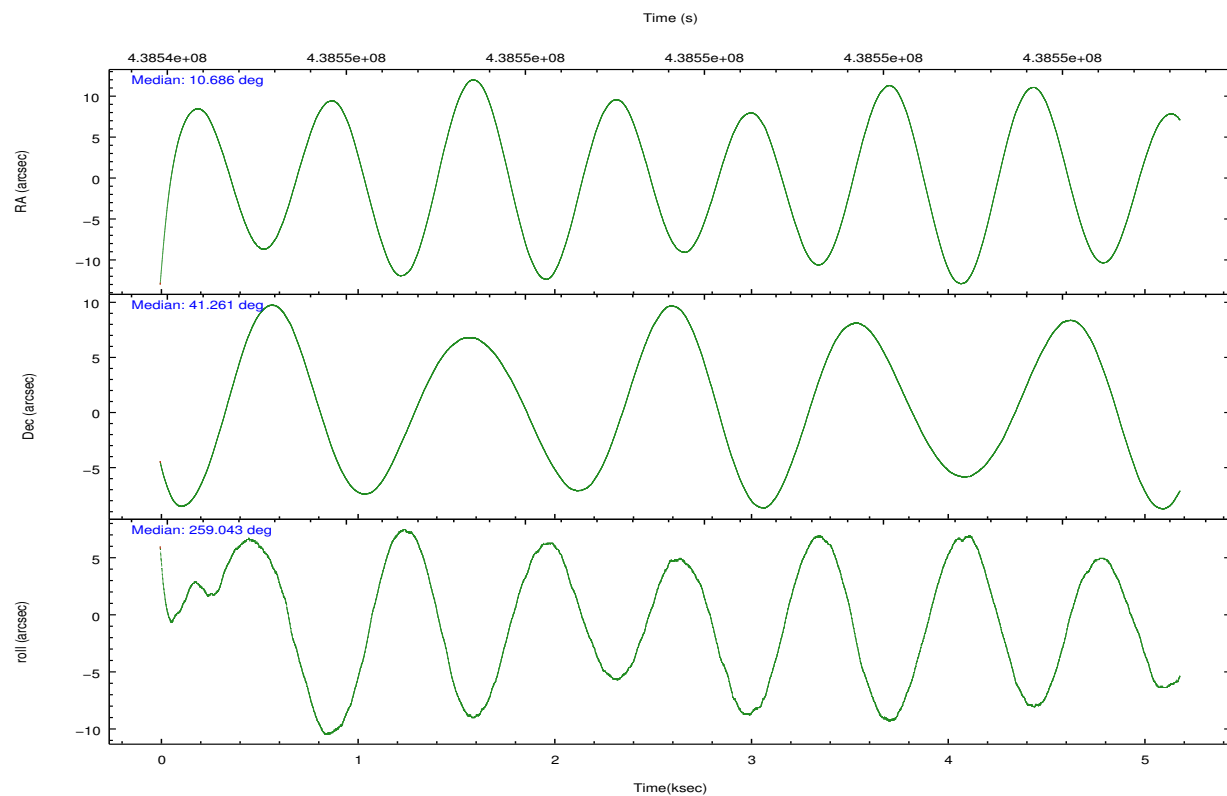
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	121	173	100	202	62	73
	4%	7%	3%	7%	2%	2%
grade 1 events	1	2	0	0	2	2
	0%	0%	0%	0%	0%	0%
grade 2 events	77	75	58	73	61	159
	2%	3%	1%	2%	2%	5%
grade 3 events	43	40	32	29	27	62
	1%	1%	1%	1%	0%	2%
grade 4 events	28	34	27	34	28	90
	1%	1%	0%	1%	0%	3%
grade 5 events	100	96	102	111	126	257
	3%	4%	3%	4%	4%	9%
grade 6 events	49	67	38	71	72	412
	1%	2%	1%	2%	2%	15%
grade 7 events	2315	1913	2611	2190	2646	1609
	84%	79%	87%	80%	87%	60%

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	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	10.674101	10.68627983431634	CCD I2 on	Y	Y
[deg] Pointing Dec	41.286900	41.26084919632389	CCD I3 on	Y	Y
[deg] Pointing Roll	258.843215	259.043851378267	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	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	438545394.184000	438544080.00097	CCD S5 on	N	N
Observation start date	2011-11-24T18:08:48	2011-11-24T17:48:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	438550394.184000	438551347.76385	On-chip summing requested	N	N
Observation end date	2011-11-24T19:32:08	2011-11-24T19:49:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	Y	Y
			[s] Primary exposure time	0.600000	0.6
			[s] Secondary exposure time	0.000000	3.2
			Duty cycle	5	5

2.3 Aspect



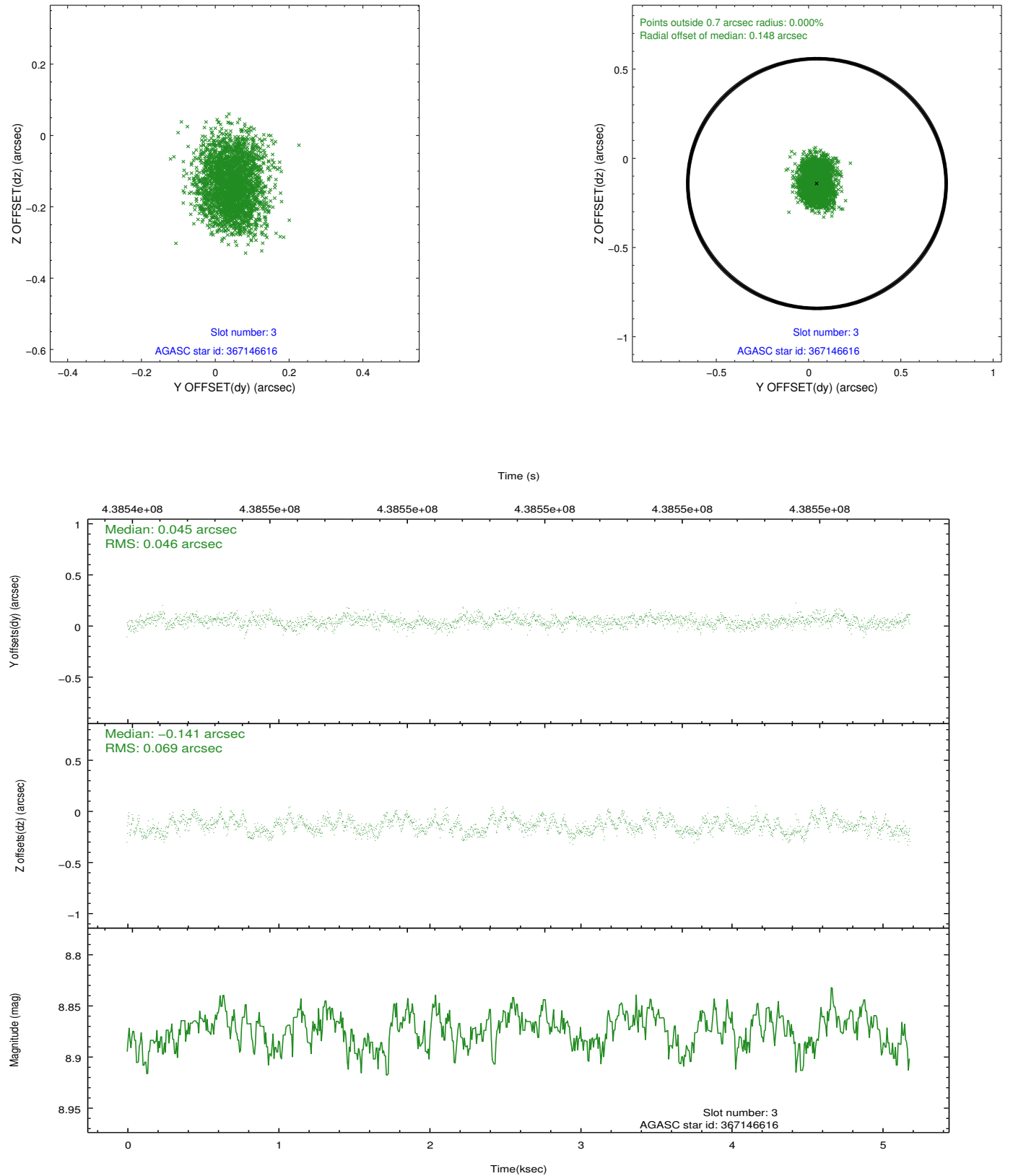


Slot Statistics

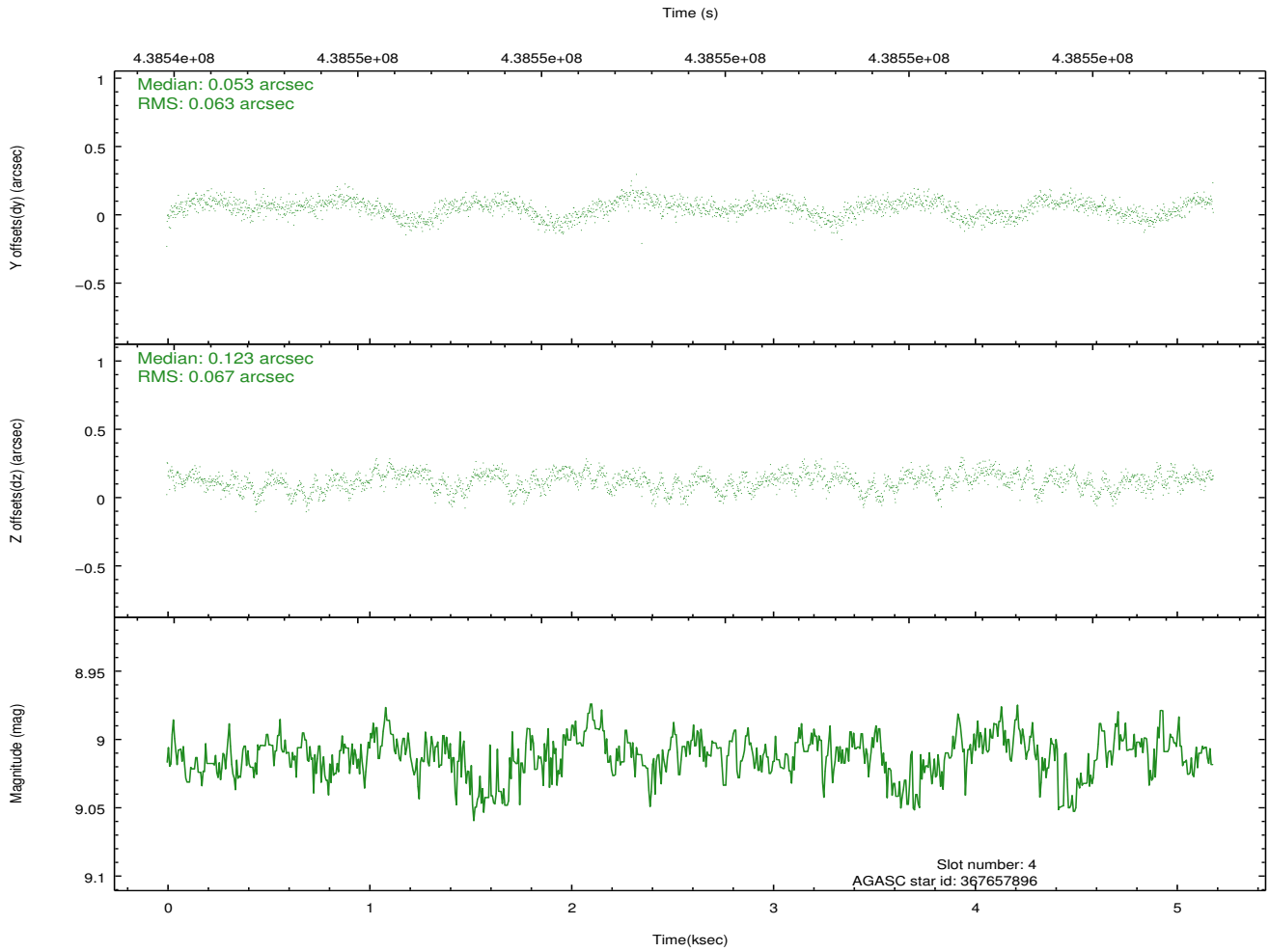
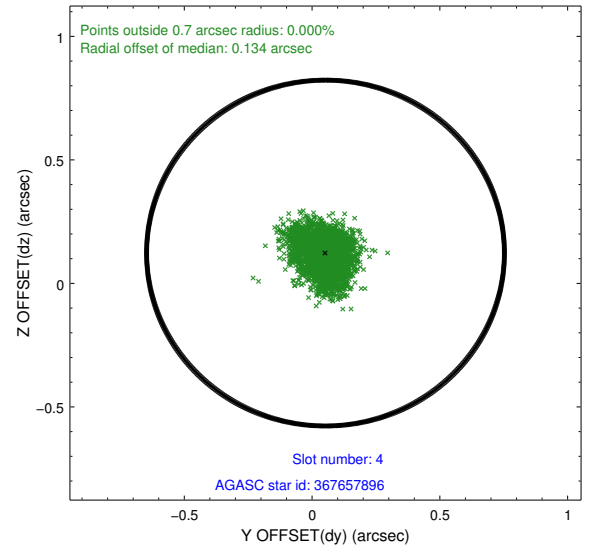
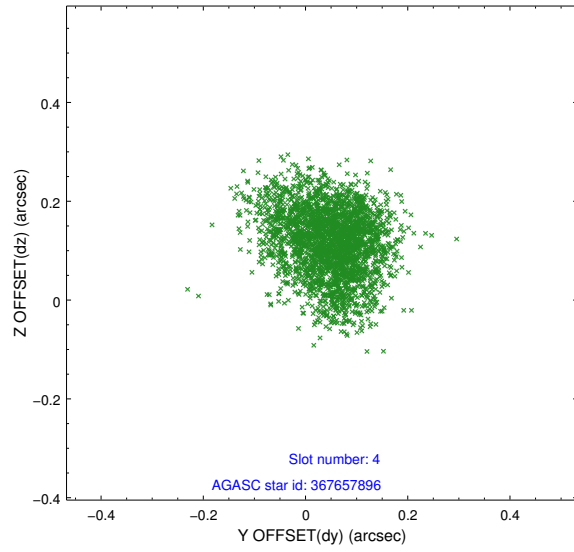
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	1265	0.072	-0.068	0.012	0.020	0.000000	0.000000	927.36	-839.39
1	FID	ACIS-I-5	7.01	1265	-0.209	0.068	0.007	0.012	0.000000	0.000000	-1820.36	1057.67
2	FID	ACIS-I-6	7.01	1265	0.046	0.071	0.009	0.015	0.000000	0.000000	391.63	1703.48
3	GUIDE	367146616	8.87	2530	0.045	-0.141	0.089	0.139	11.418645	41.190163	-57.30	2044.22
4	GUIDE	367657896	9.01	2530	0.053	0.123	0.100	0.160	11.197765	41.313576	-372.61	1370.46
5	GUIDE	367663272	9.28	2526	0.038	0.139	0.110	0.175	10.656279	41.699429	-1447.44	-334.84
6	GUIDE	367674552	8.85	2529	0.089	-0.091	0.082	0.129	11.016238	41.570845	-1183.59	705.58
7	GUIDE	367146304	6.23	2529	-0.216	-0.023	0.077	0.118	11.154952	40.679362	1887.50	1710.76

2.4 Star Slots

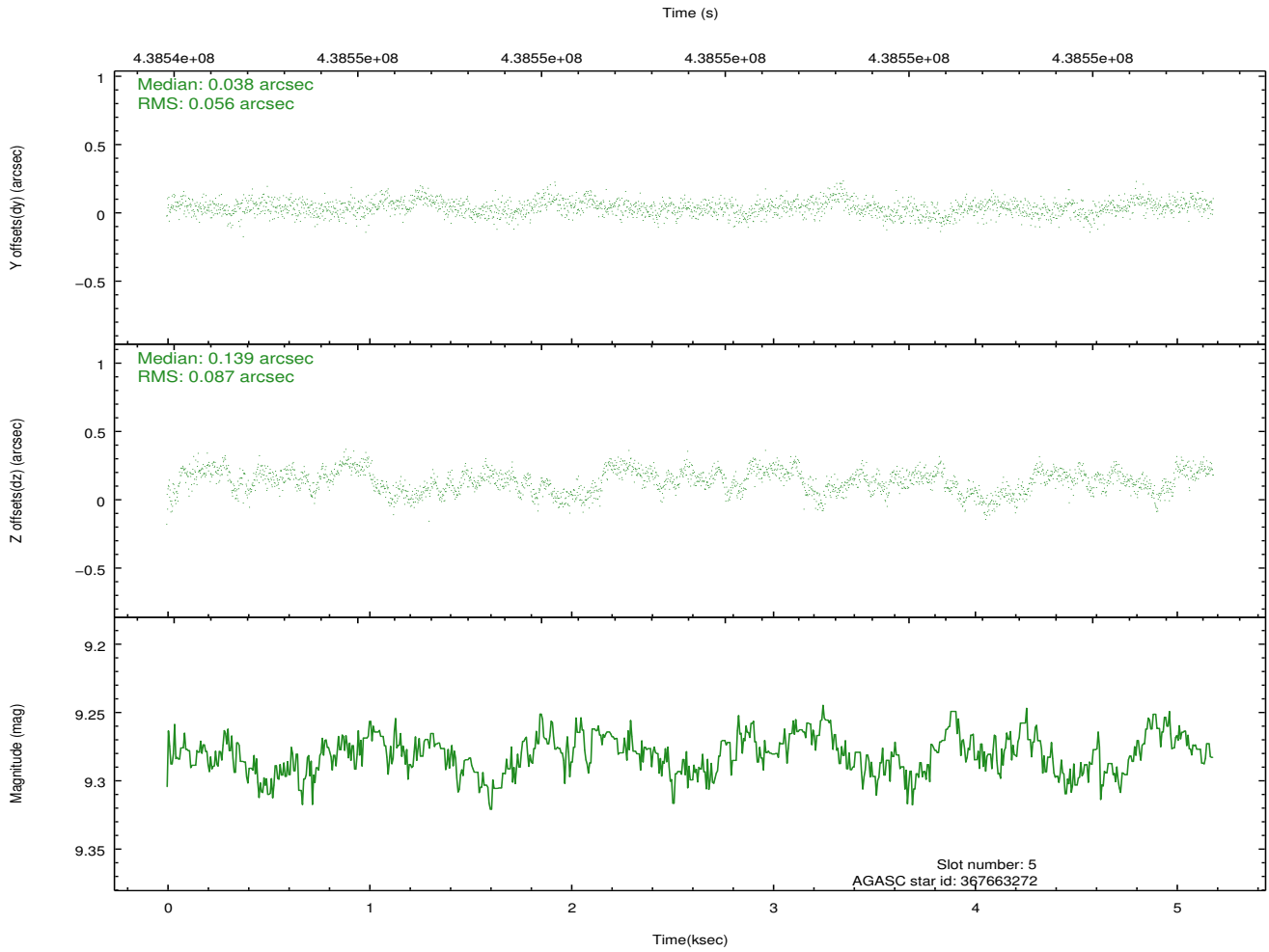
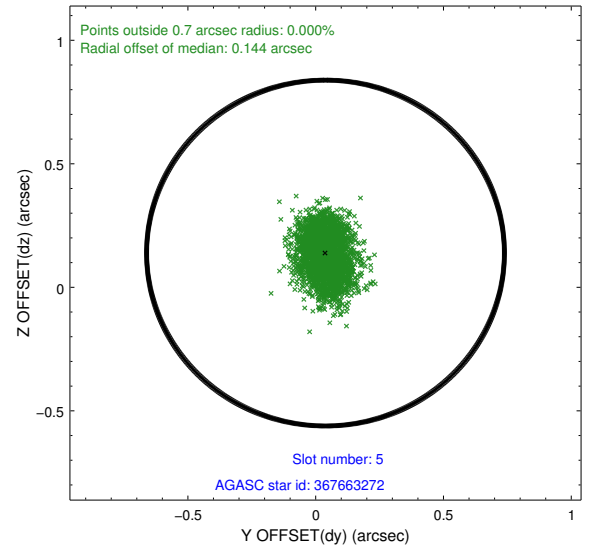
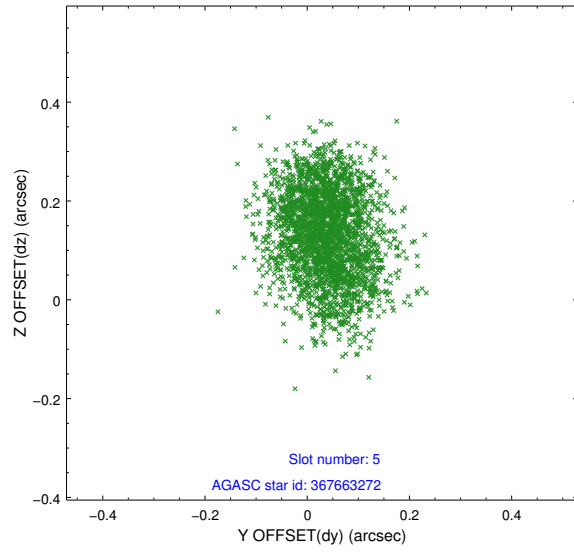
2.4.1 Slot 3



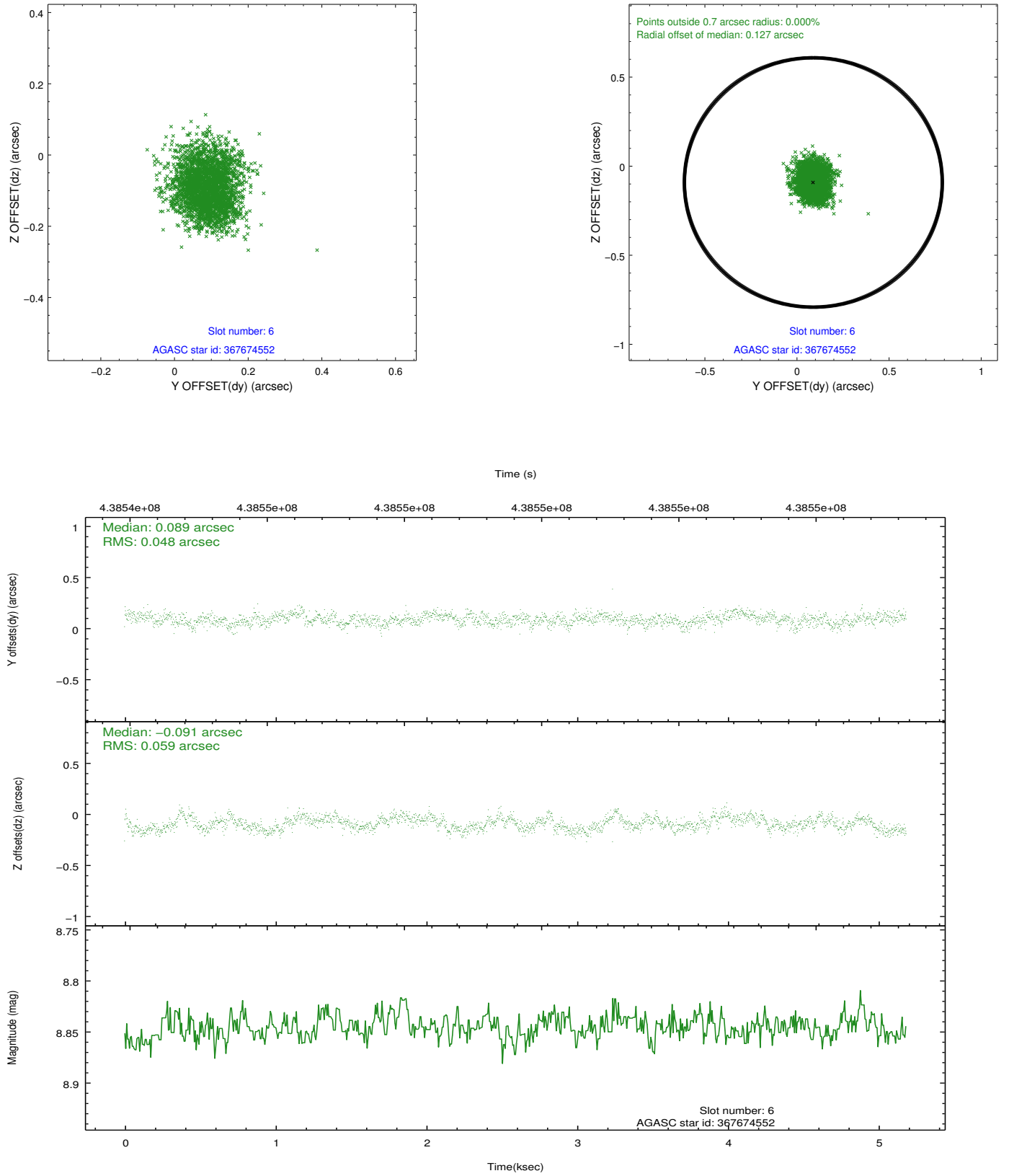
2.4.2 Slot 4



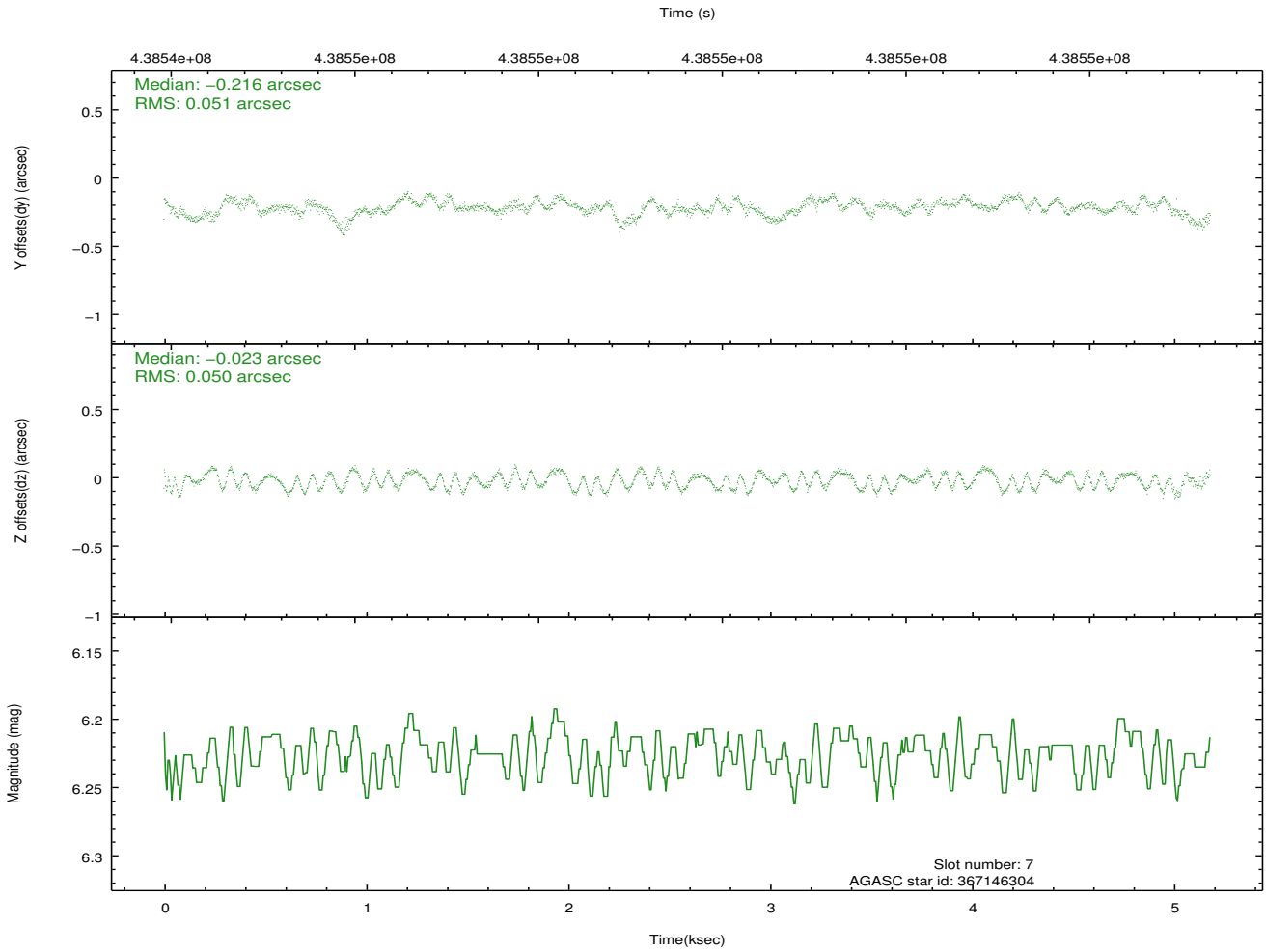
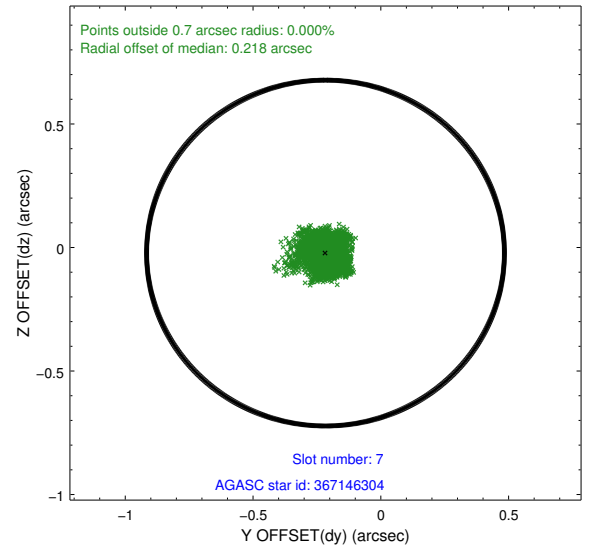
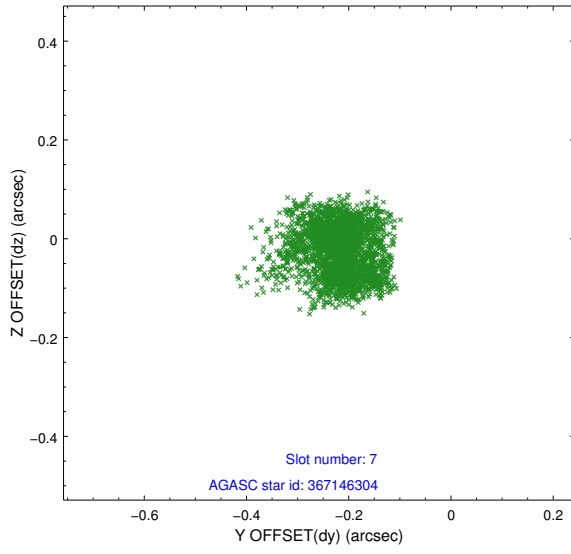
2.4.3 Slot 5



2.4.4 Slot 6

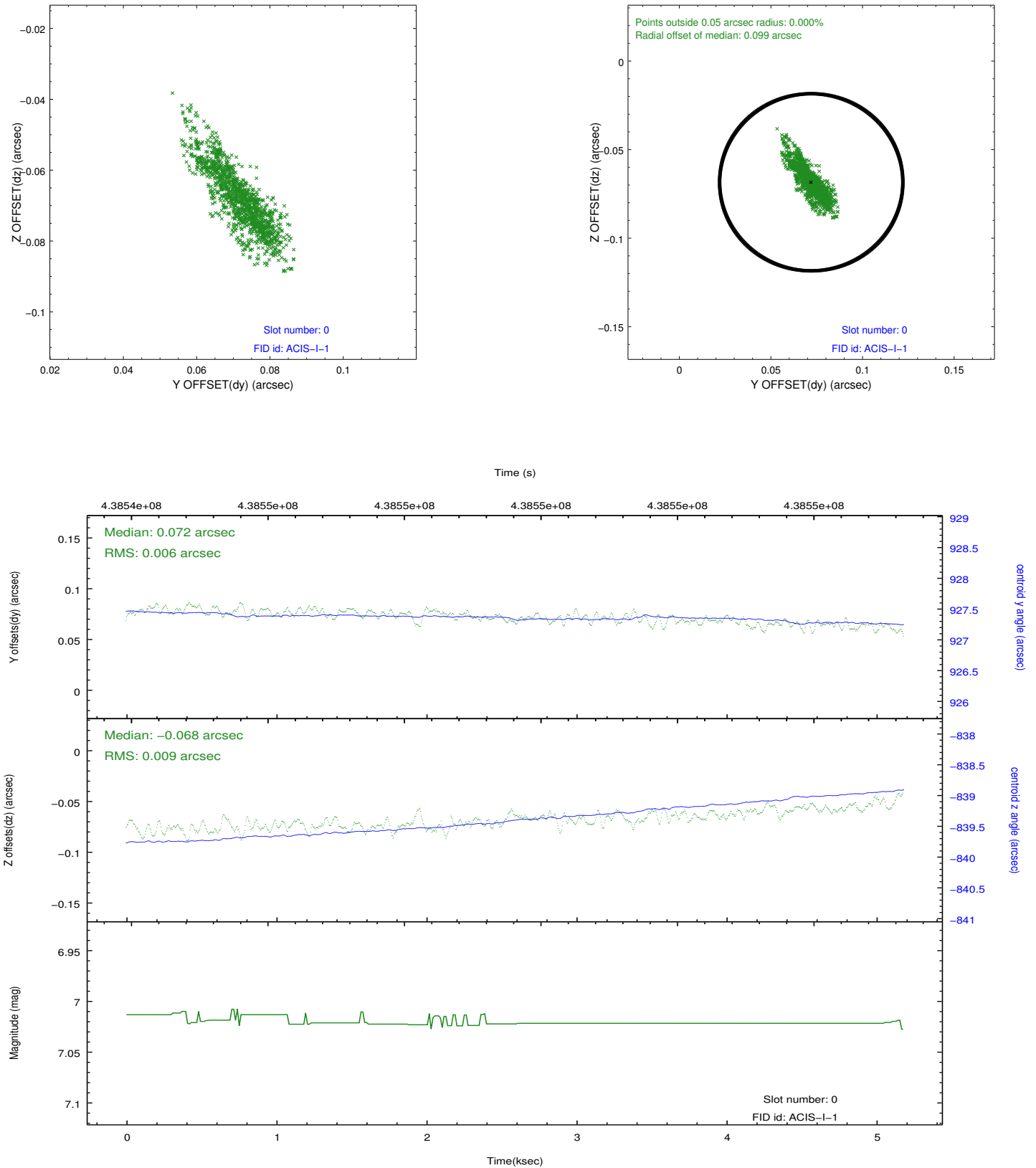


2.4.5 Slot 7

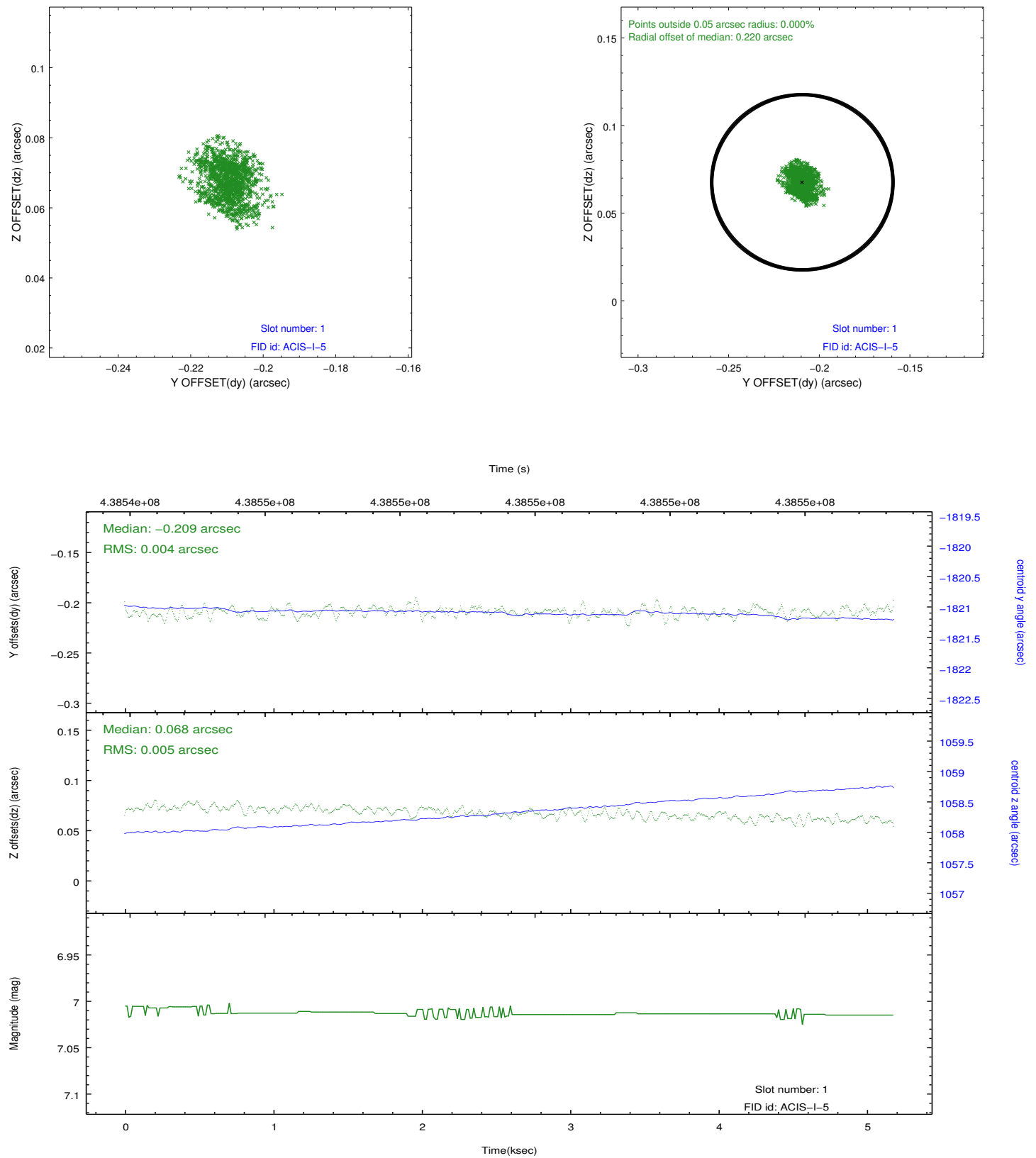


2.5 FID Slots

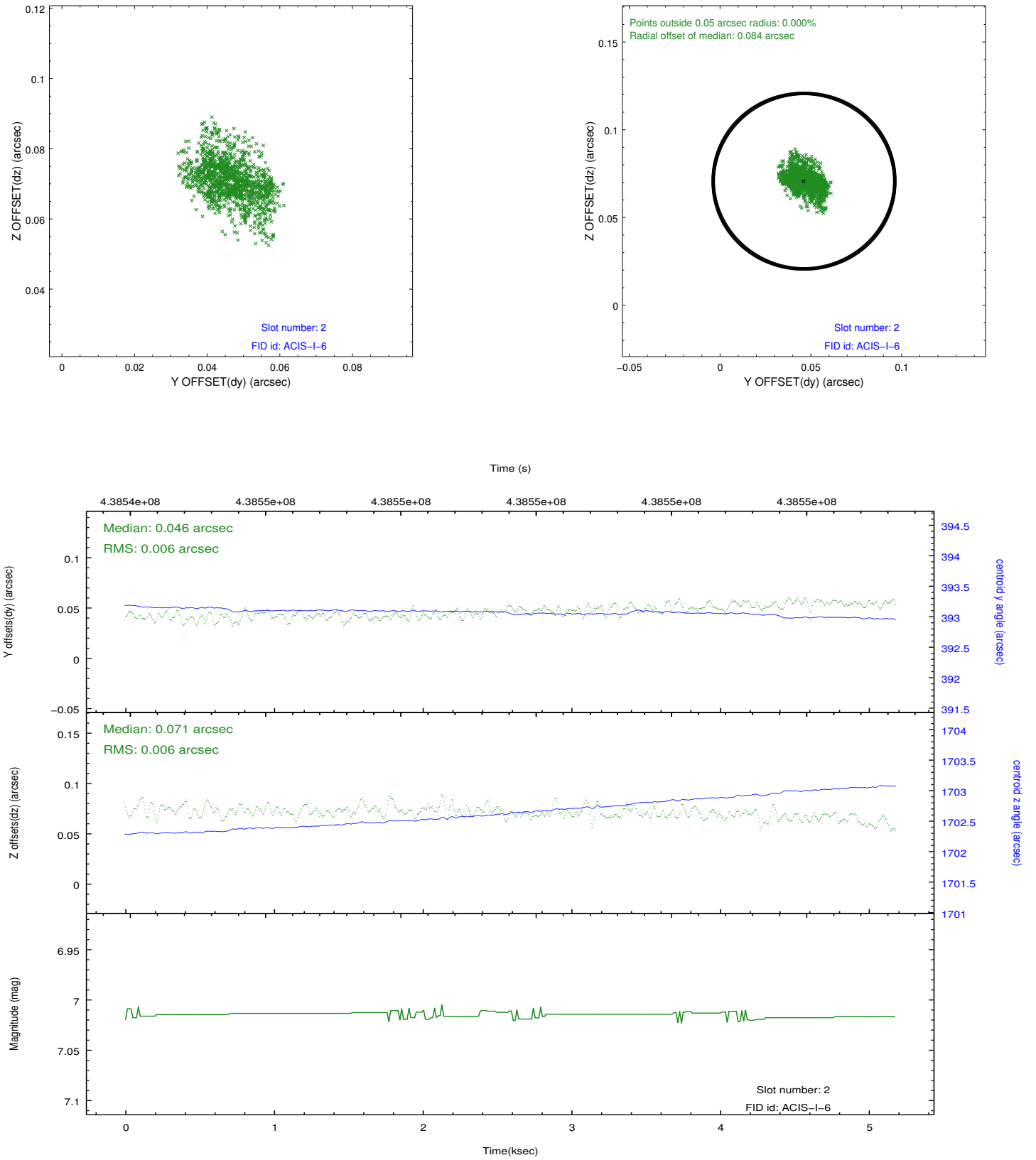
2.5.1 Slot 0



2.5.2 Slot 1



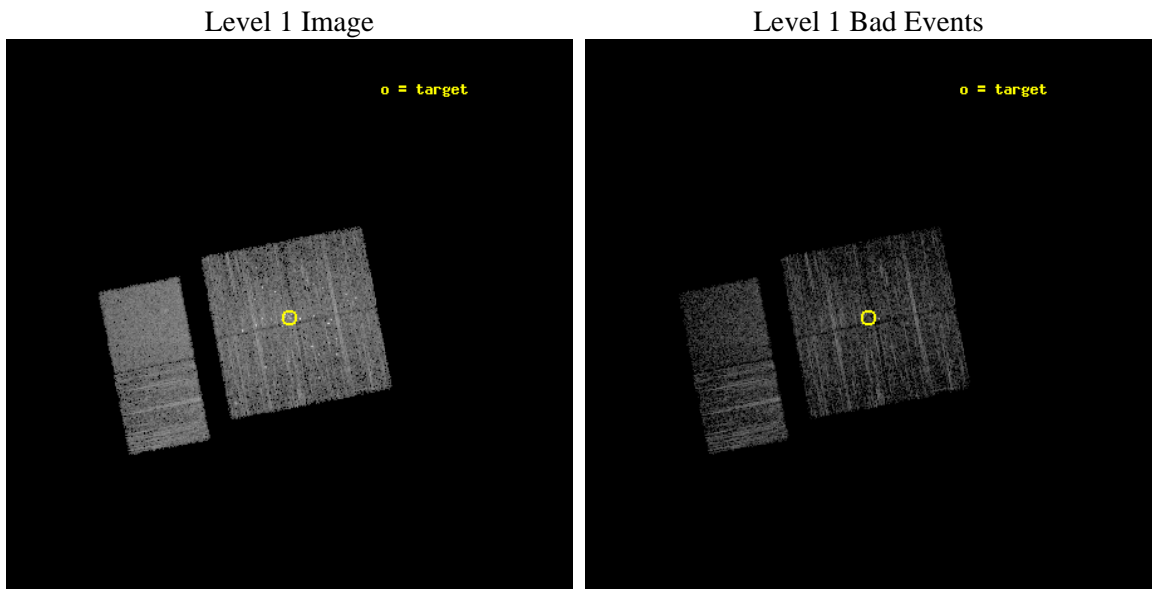
2.5.3 Slot 2



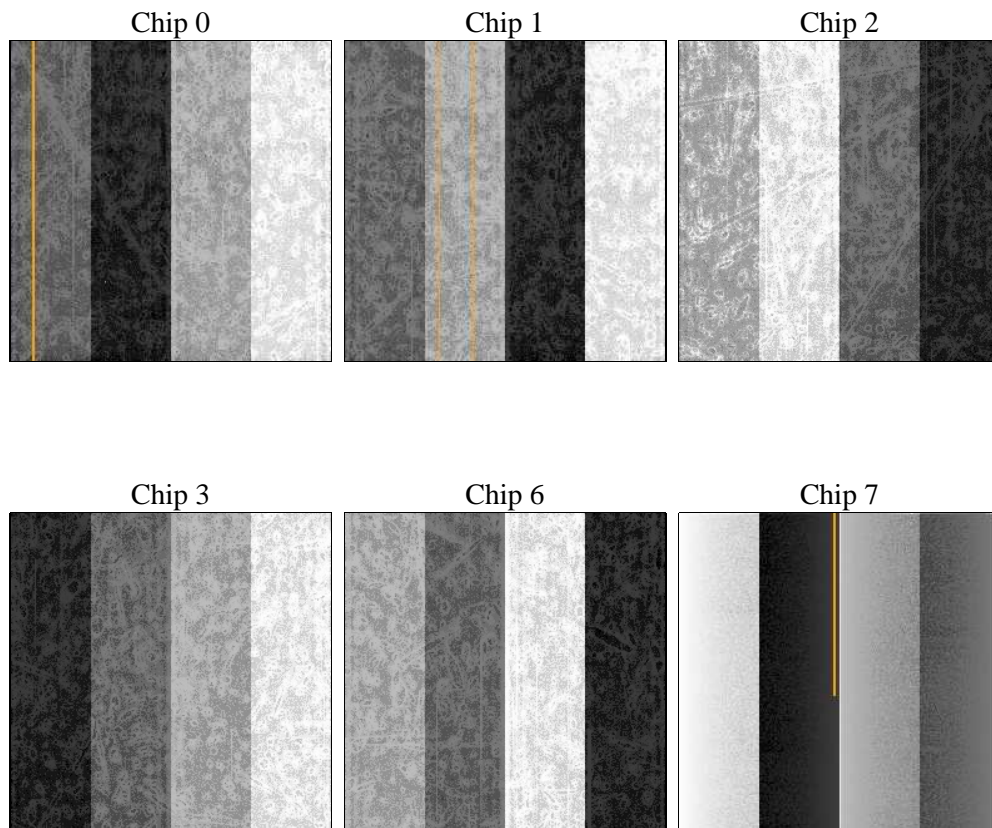
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	3957.6455804706	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	3957.6452517509	Sum of GTIs [s]
date	2012-02-27T11:57:05	Date and time of file creation	ontime1	3957.6454312205	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	3957.6452820897	Sum of GTIs [s]
			ontime3	3957.6455804706	Sum of GTIs [s]
			ontime6	3957.6455407143	Sum of GTIs [s]
			ontime7	3957.6453518271	Sum of GTIs [s]
			l1events	161297	Number of level 1 events

3.1.4 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	24667	24454	25701	28320	26805	31350	grade 0 events	2888	2907	1978	4727	960	1262
rejected events	19550	18887	21707	21011	23950	17533		11%	11%	7%	16%	3%	4%
rejected %	79%	77%	84%	74%	89%	55%	grade 1 events	40	112	29	75	11	41
								0%	0%	0%	0%	0%	0%
							grade 2 events	922	1037	833	1043	621	2832
								3%	4%	3%	3%	2%	9%
							grade 3 events	330	423	317	444	290	1183
								1%	1%	1%	1%	1%	3%
							grade 4 events	353	437	328	436	311	1184
								1%	1%	1%	1%	1%	3%
							grade 5 events	1085	1278	969	1297	1178	3246
								4%	5%	3%	4%	4%	10%
							grade 6 events	632	768	543	668	674	7366
								2%	3%	2%	2%	2%	23%
							grade 7 events	18417	17492	20704	19630	22760	14236
								74%	71%	80%	69%	84%	45%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.87983529806132

A.2 Comments