

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 13833 - L2 Version 2
Chandra X-Ray Center

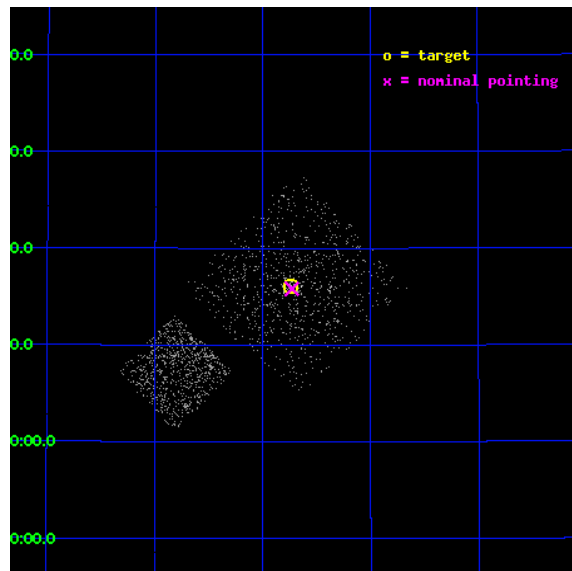
L2 Processing Date : Mar 2 2012

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1 Front

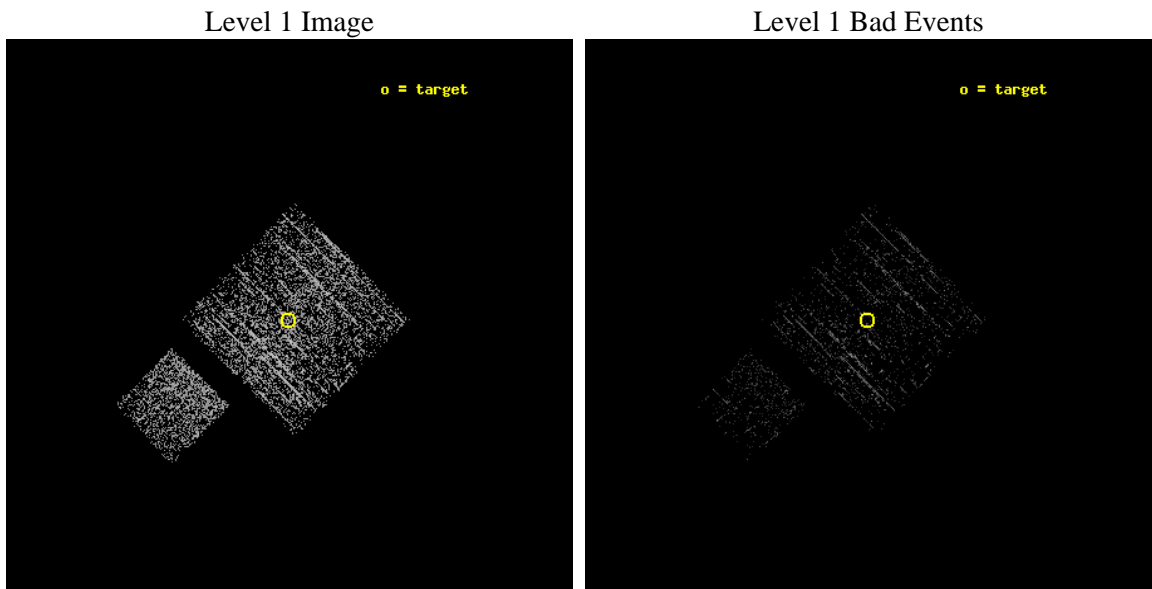
seq_num	601007	Sequence number
obs_id	13833	Observation id
title	Monitoring M31 for BHXNe	Proposal title
observer	Dr Michael Garcia	Principal investigator
object	M31 BHXN	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar]
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.682395010123	Nominal RA [deg]
dec_nom	41.263483597814	Nominal Dec [deg]
roll_nom	224.87108861981	Nominal Roll [deg]
revision	2	Processing version of data
ontime	953.83896881342	Sum of GTIs [s]
livetime	151.79494708243	Livetime [s]
ontime0	953.83896881342	Sum of GTIs [s]
ontime1	953.83896881342	Sum of GTIs [s]
ontime2	953.83896881342	Sum of GTIs [s]
ontime3	953.83896881342	Sum of GTIs [s]
ontime7	953.83896881342	Sum of GTIs [s]
l2events	1922	Number of level 2 events



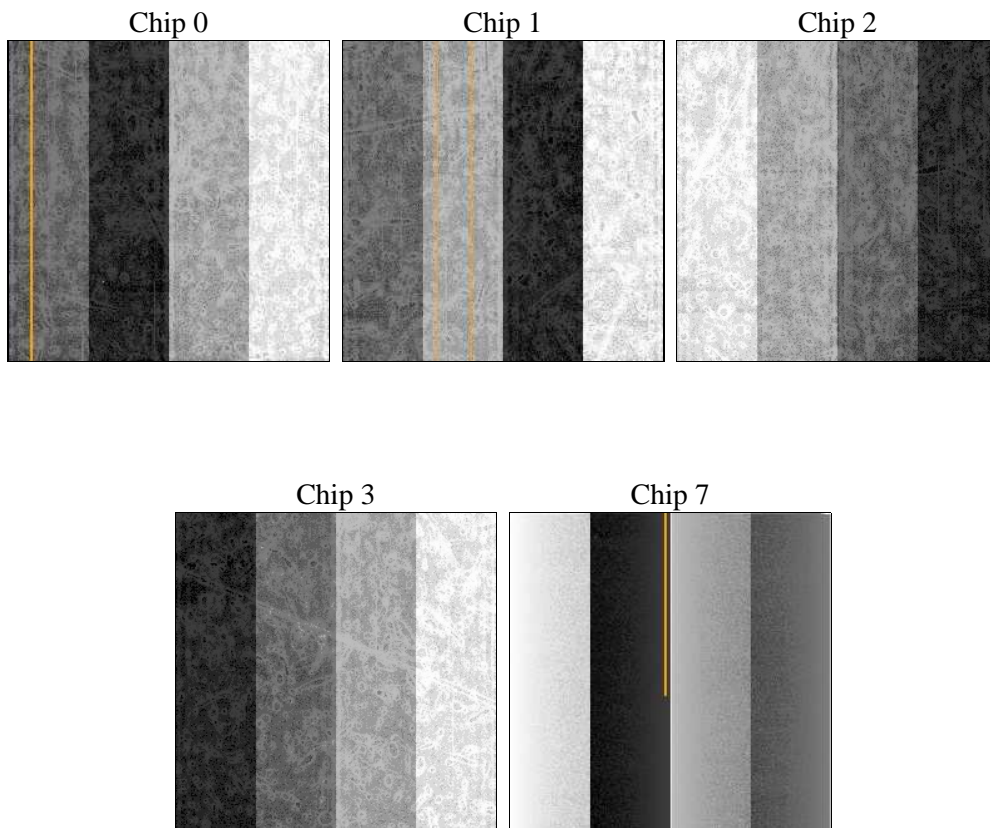
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	953.83896881342	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	953.83896881342	Sum of GTIs [s]
date	2012-03-02T14:19:49	Date and time of file creation	ontime1	953.83896881342	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	953.83896881342	Sum of GTIs [s]
			ontime3	953.83896881342	Sum of GTIs [s]
			ontime7	953.83896881342	Sum of GTIs [s]
			l1events	14296	Number of level 1 events

2.1.4 Events

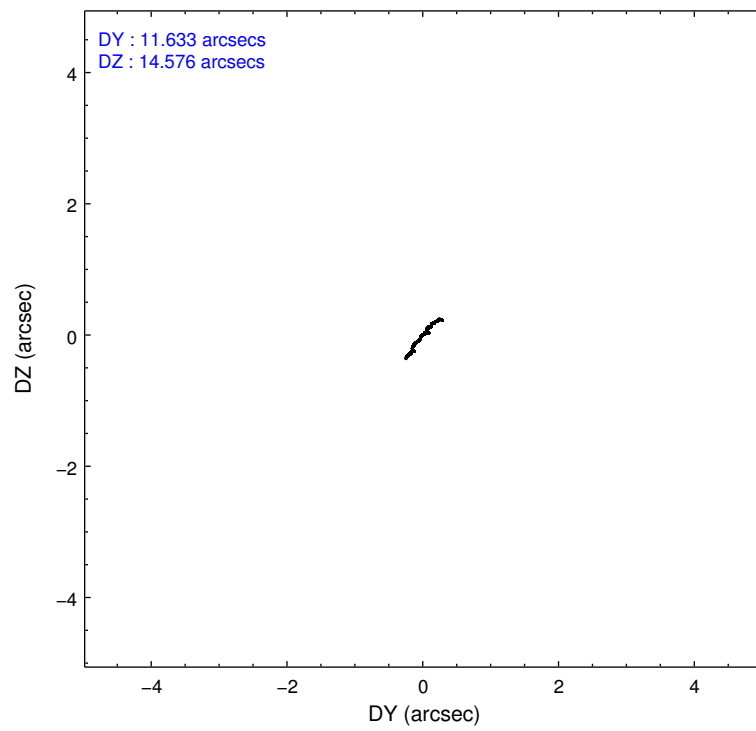
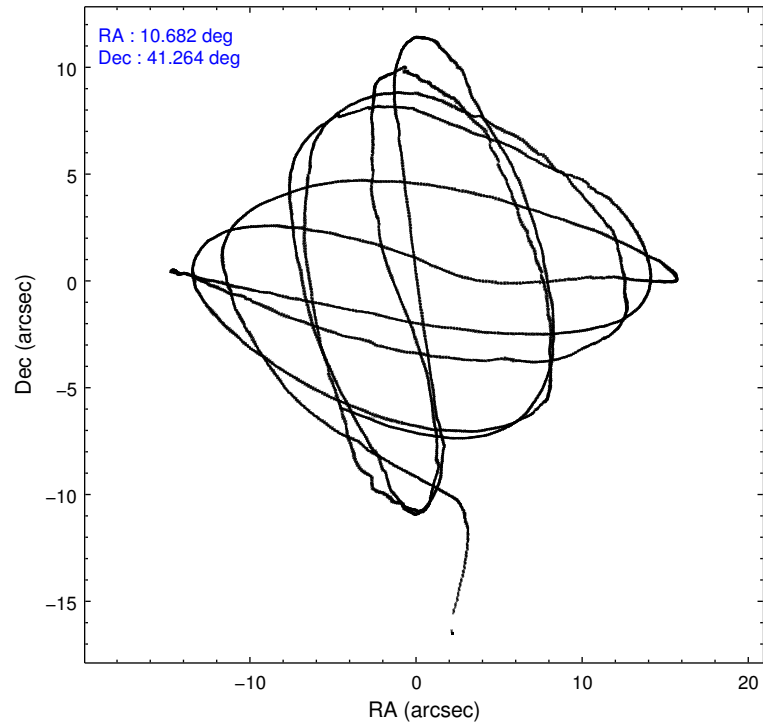
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	2536	2777	3154	2898	2931
rejected events	2157	2480	2855	2521	2093
rejected %	85%	89%	90%	86%	71%

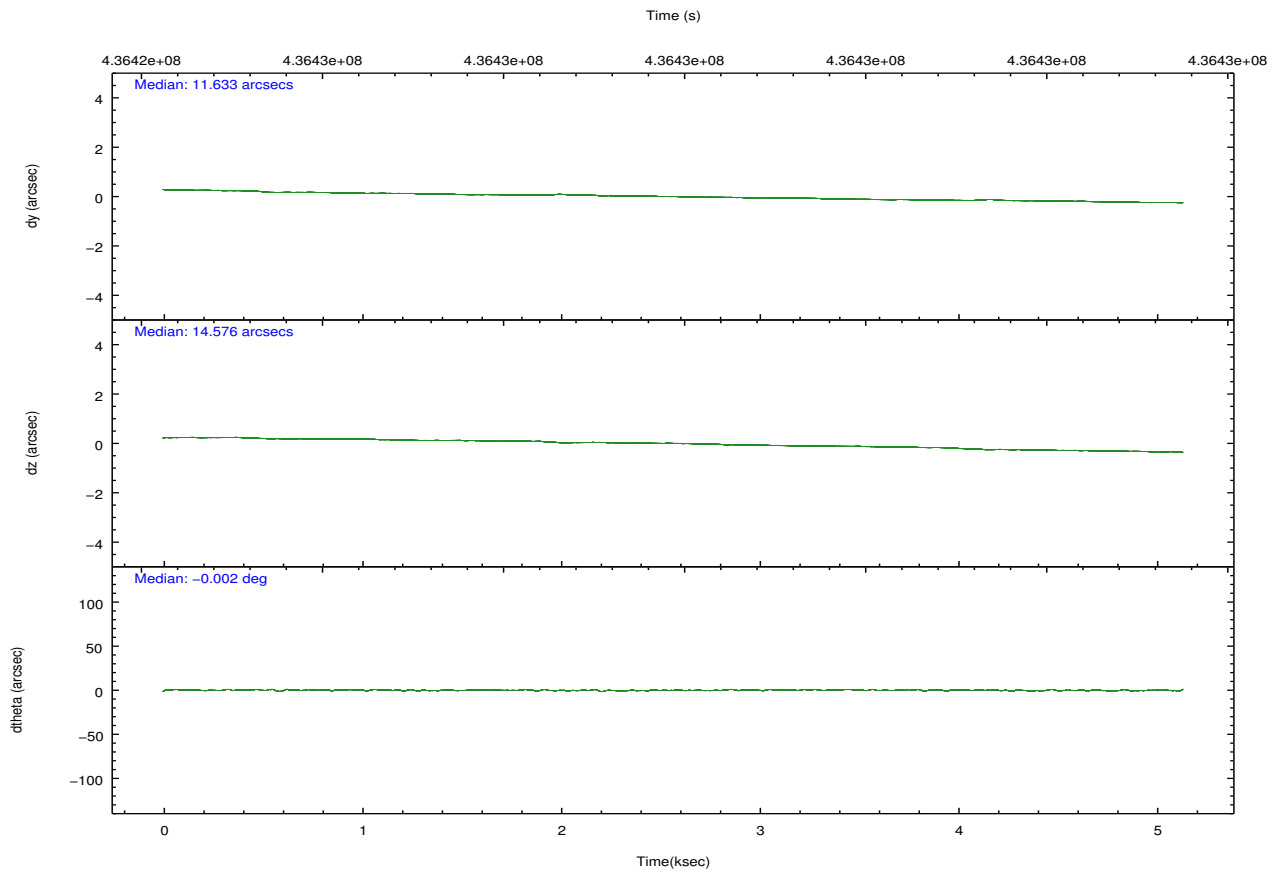
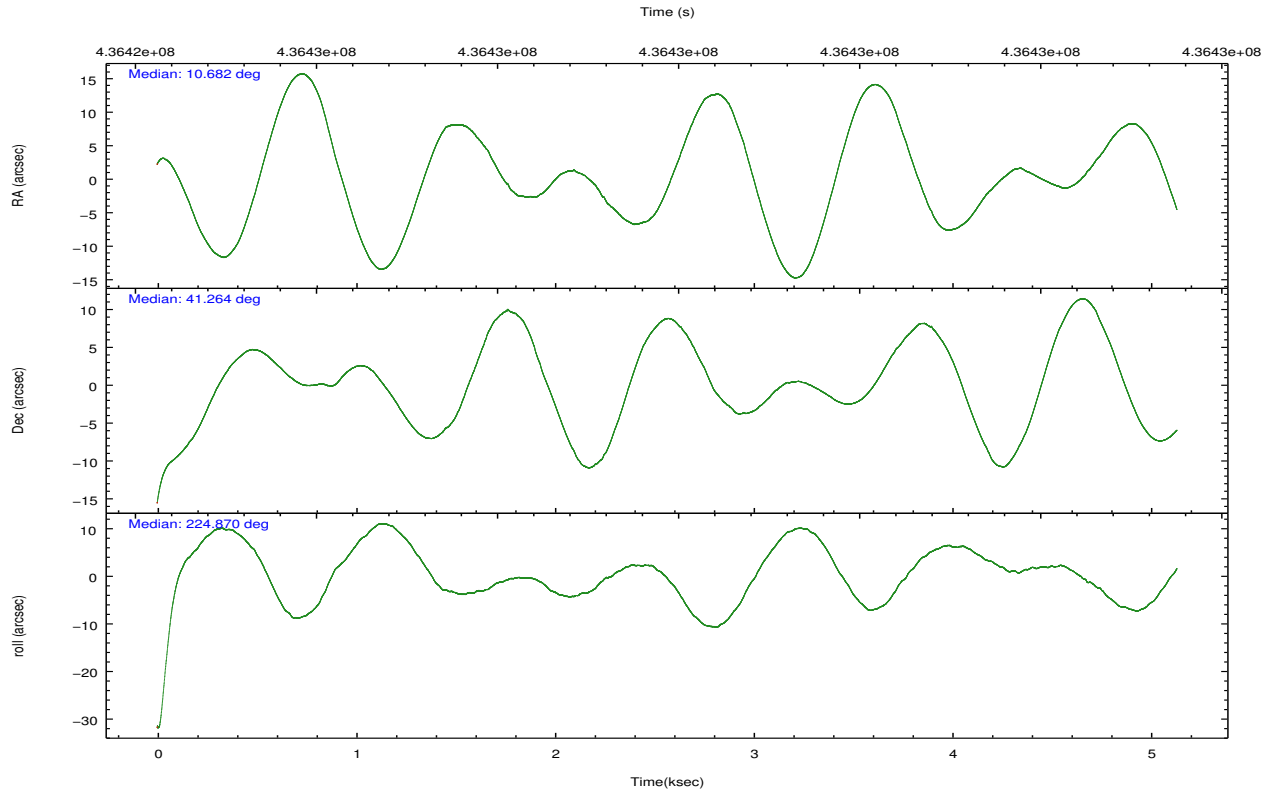
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	168	94	106	169	79
	6%	3%	3%	5%	2%
grade 1 events	2	0	4	1	3
	0%	0%	0%	0%	0%
grade 2 events	81	71	86	88	178
	3%	2%	2%	3%	6%
grade 3 events	36	45	34	33	80
	1%	1%	1%	1%	2%
grade 4 events	41	29	20	39	87
	1%	1%	0%	1%	2%
grade 5 events	101	100	100	95	253
	3%	3%	3%	3%	8%
grade 6 events	58	58	55	49	426
	2%	2%	1%	1%	14%
grade 7 events	2049	2380	2749	2424	1825
	80%	85%	87%	83%	62%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	10.691753	10.6823950101226	CCD I2 on	Y	Y
[deg] Pointing Dec	41.290157	41.26348359781441	CCD I3 on	Y	Y
[deg] Pointing Roll	224.656297	224.8710886198102	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	N
[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)	436425503.184000	436424292.25182	CCD S5 on	N	N
Observation start date	2011-10-31T05:17:17	2011-10-31T04:58:12	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	436430503.184000	436431357.06469	On-chip summing requested	N	N
Observation end date	2011-10-31T06:40:37	2011-10-31T06:55:57	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	3.1
			Duty cycle	5	5

2.3 Aspect



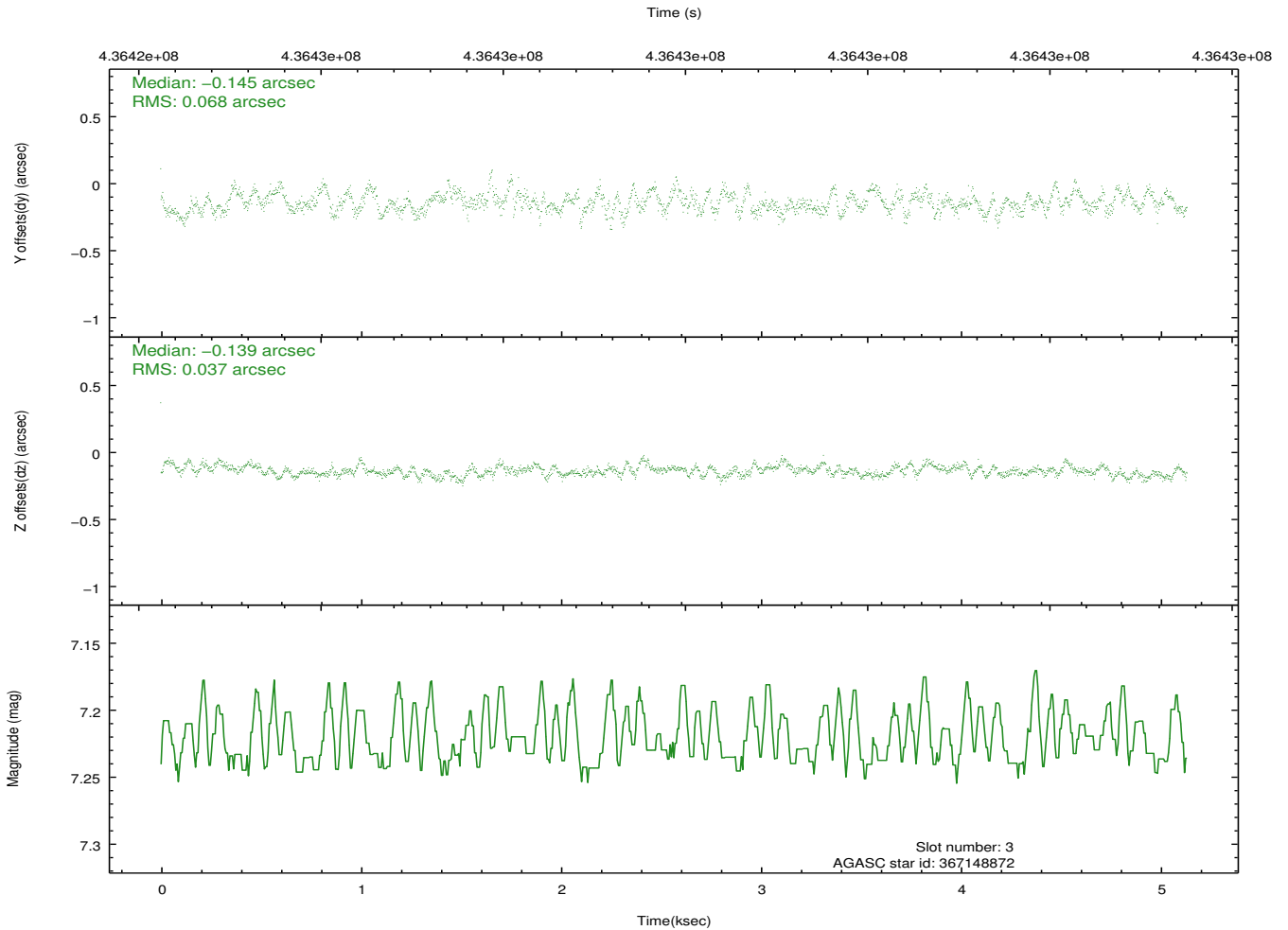
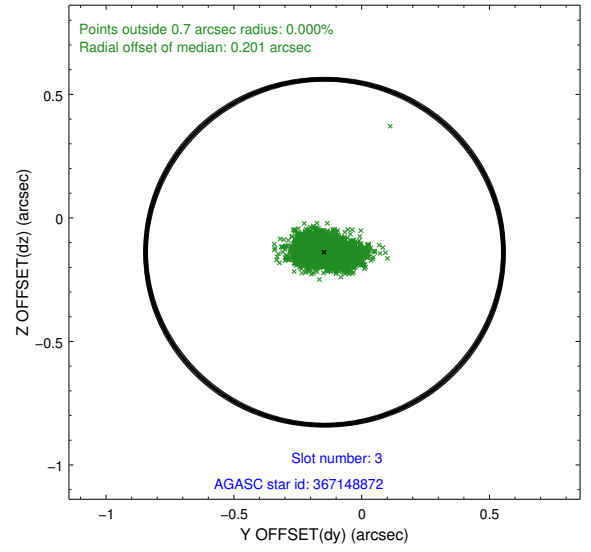
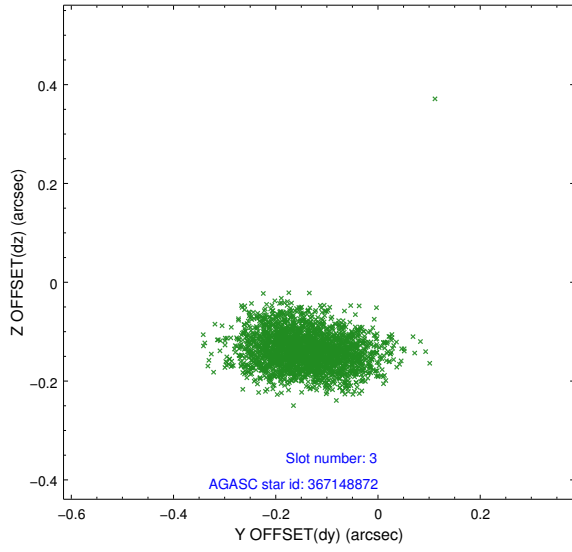


Slot Statistics

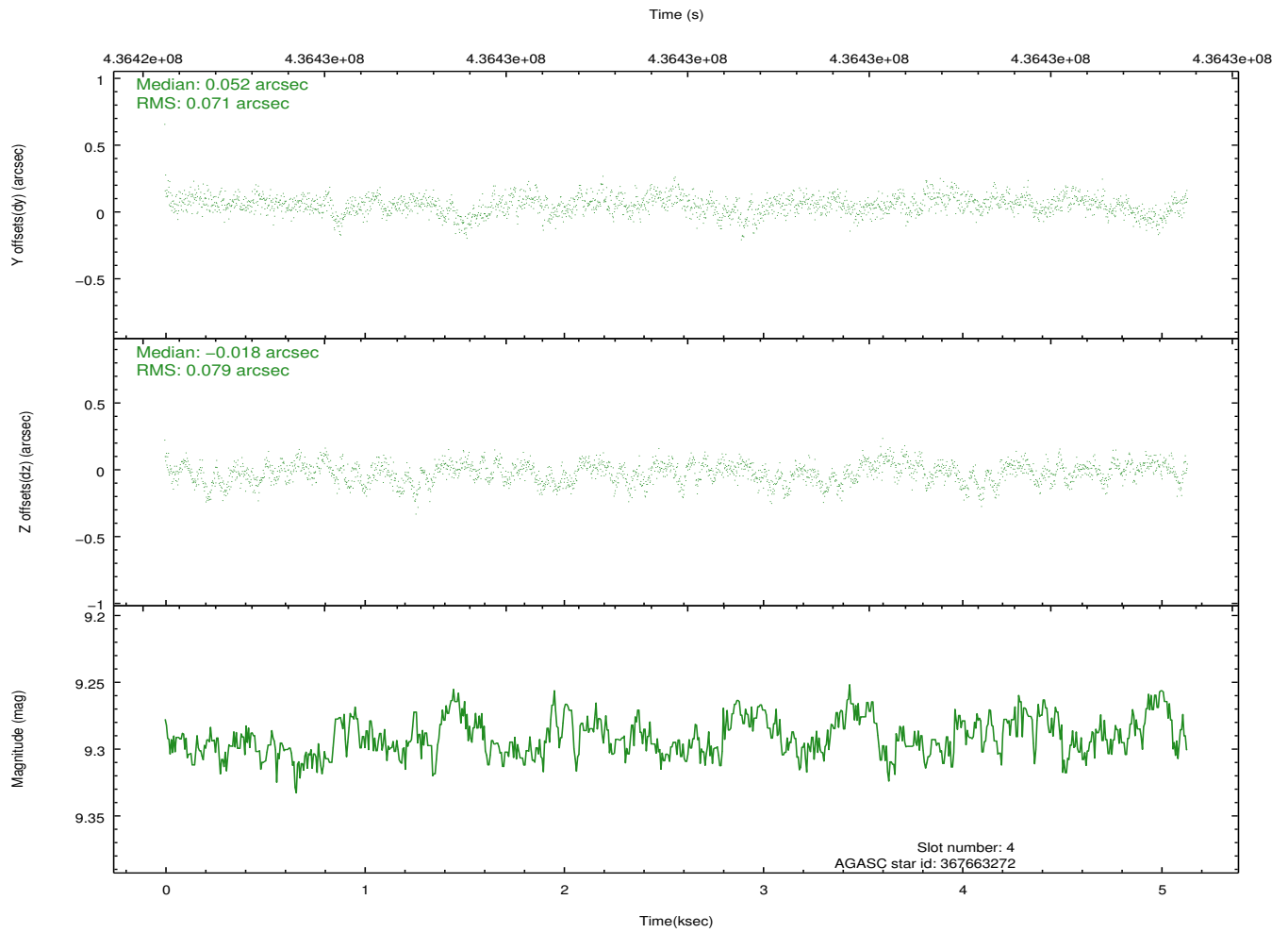
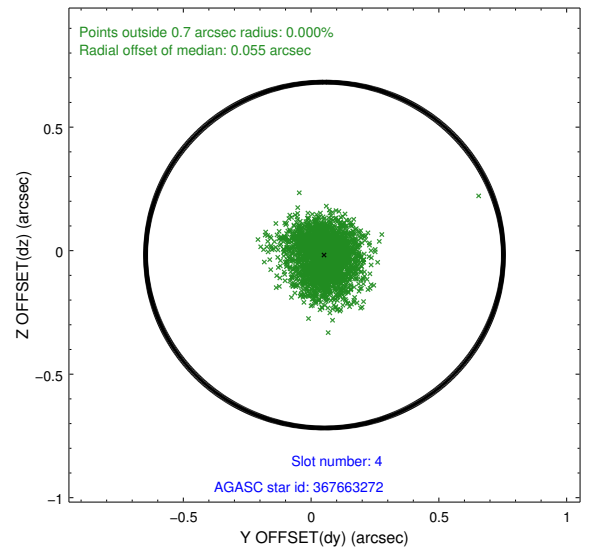
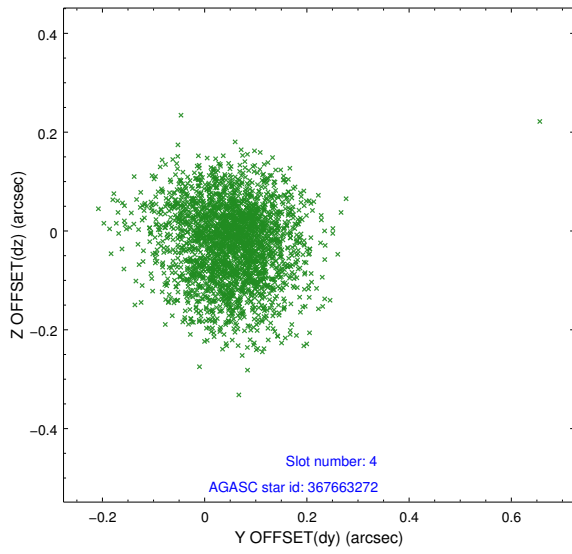
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	1253	0.044	-0.016	0.009	0.017	0.000000	0.000000	927.97	-838.15
1	FID	ACIS-I-5	7.03	1253	-0.210	0.048	0.007	0.011	0.000000	0.000000	-1819.75	1058.79
2	FID	ACIS-I-6	7.04	1253	0.075	0.039	0.011	0.018	0.000000	0.000000	392.24	1704.64
3	GUIDE	367148872	7.22	2504	-0.145	-0.139	0.082	0.135	10.505940	40.688258	1883.72	1184.70
4	GUIDE	367663272	9.29	2503	0.052	-0.018	0.113	0.183	10.656279	41.699429	-966.07	-1115.17
5	GUIDE	367674552	8.86	2504	0.109	0.190	0.093	0.154	11.016238	41.570845	-1333.47	-105.95
6	GUIDE	367657272	8.44	2504	-0.105	-0.070	0.083	0.140	11.834471	41.298907	-2235.74	2135.07
7	GUIDE	367145856	9.26	2504	0.096	0.044	0.136	0.218	10.744946	40.402085	2142.66	2377.46

2.4 Star Slots

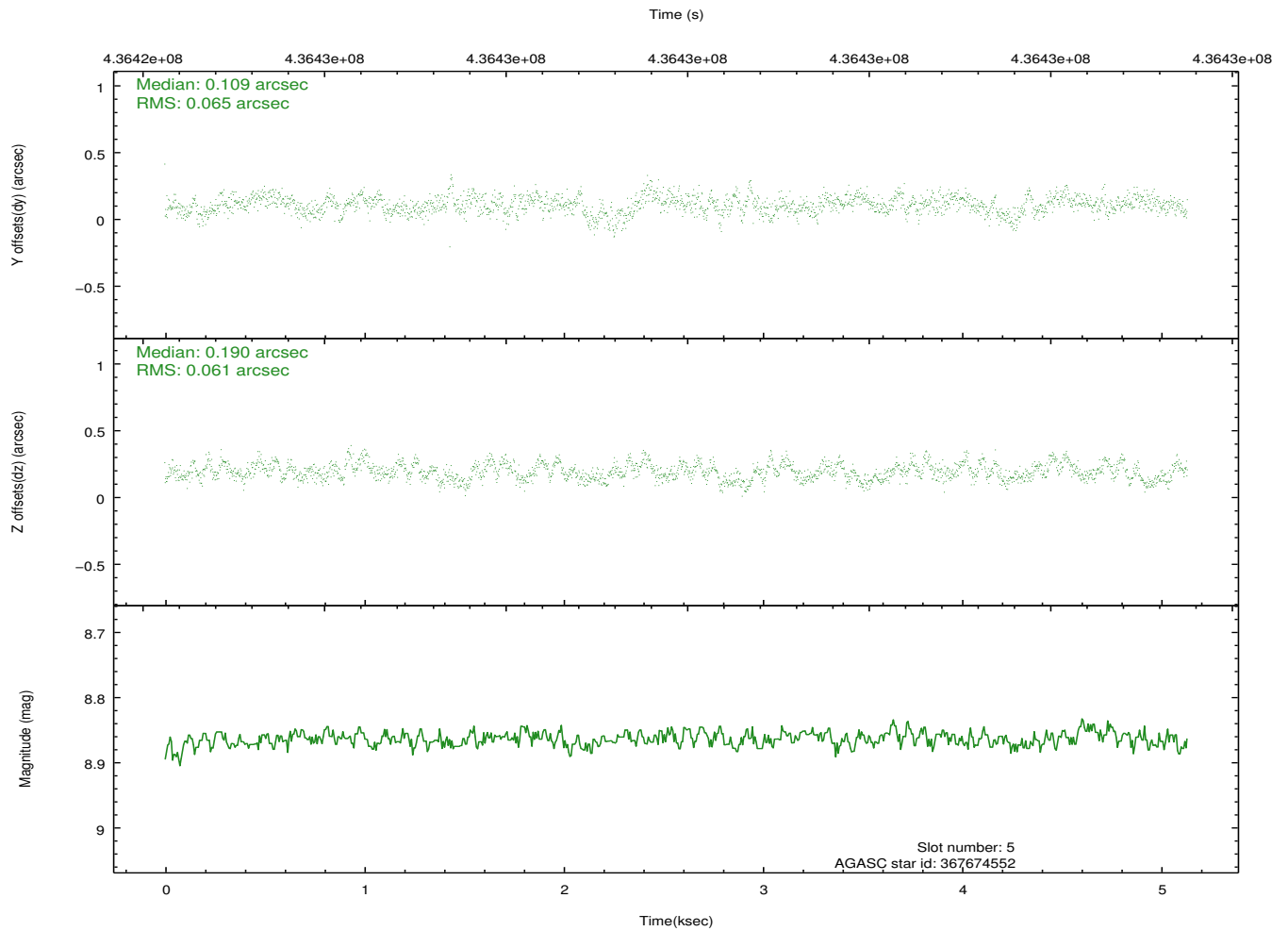
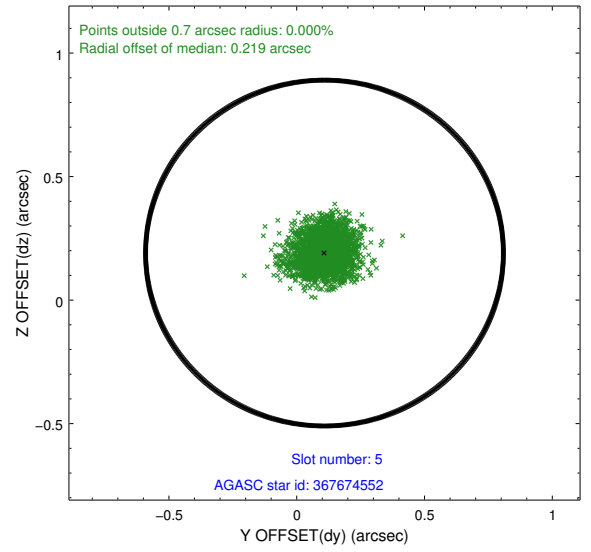
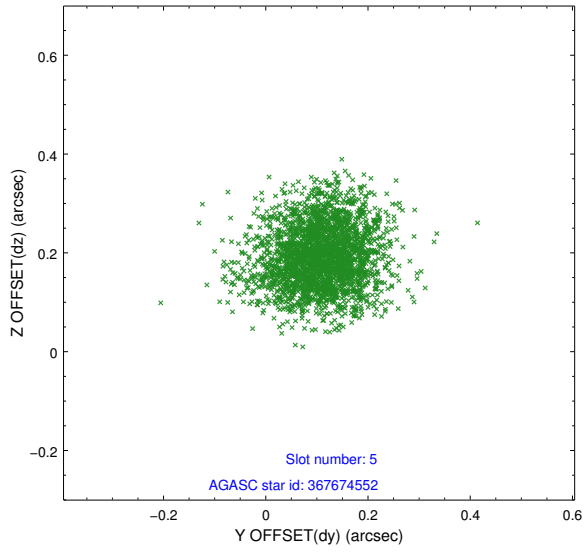
2.4.1 Slot 3



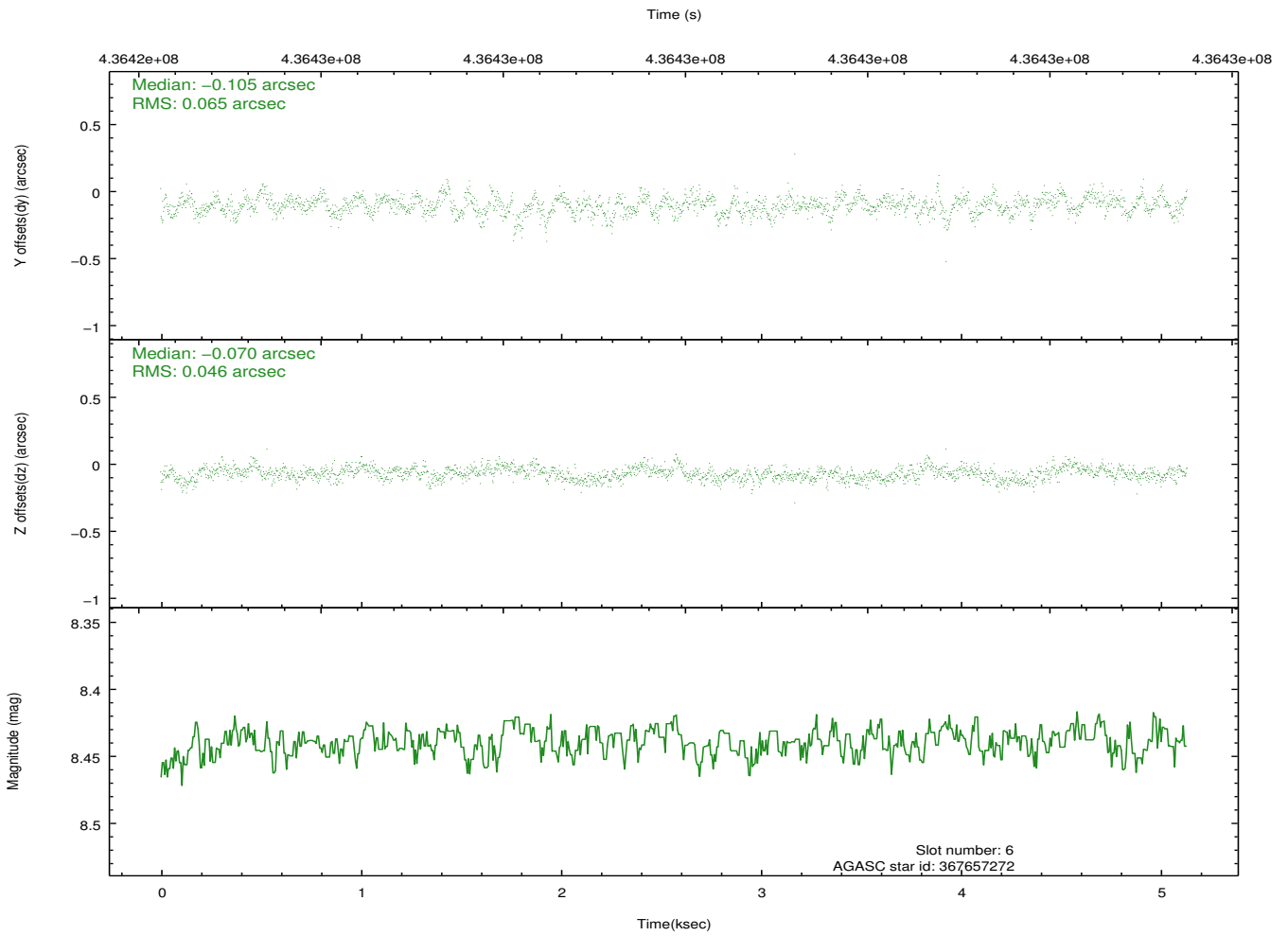
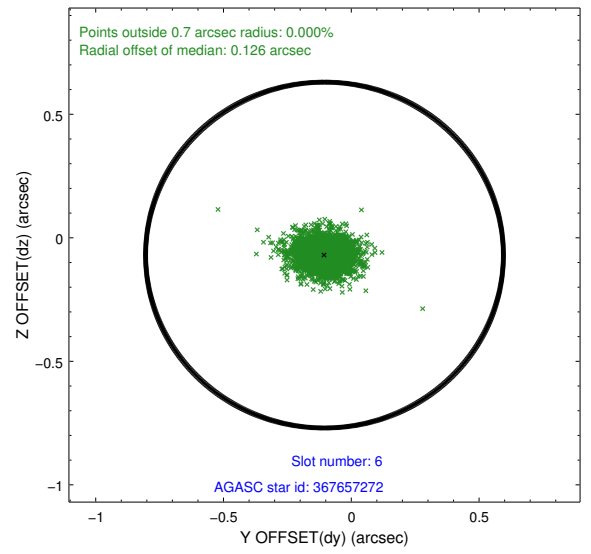
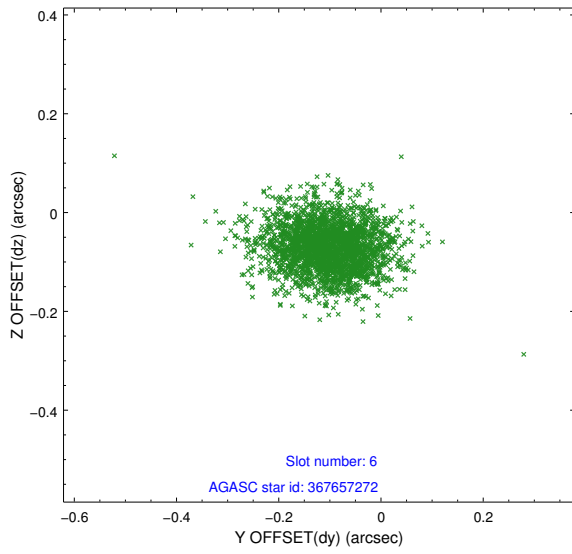
2.4.2 Slot 4



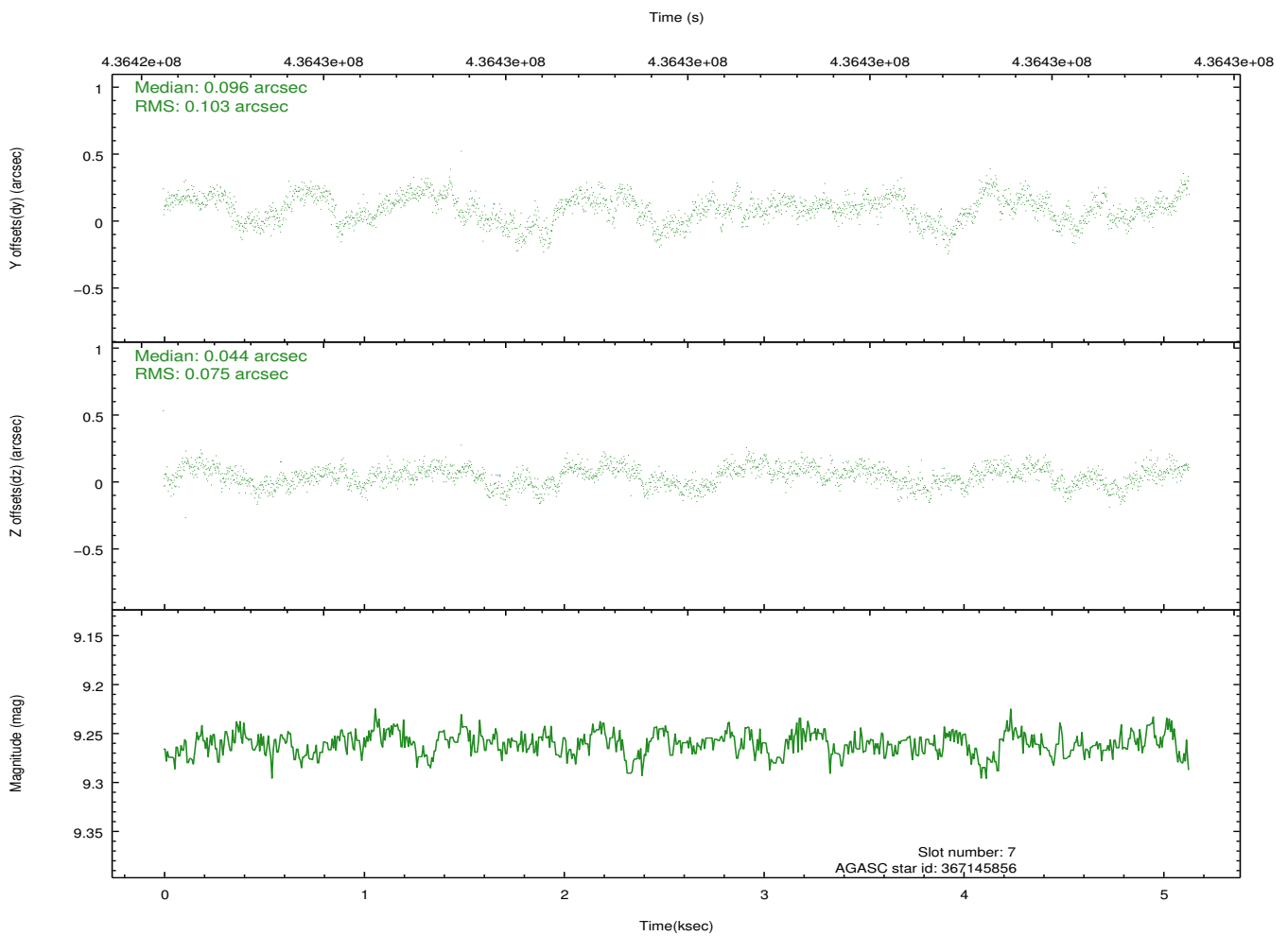
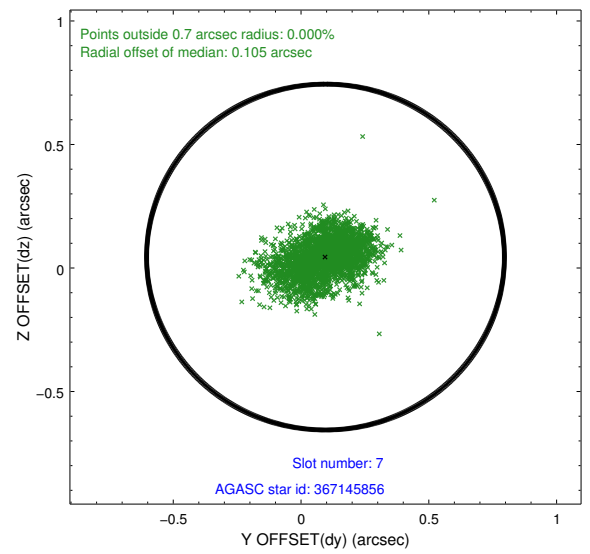
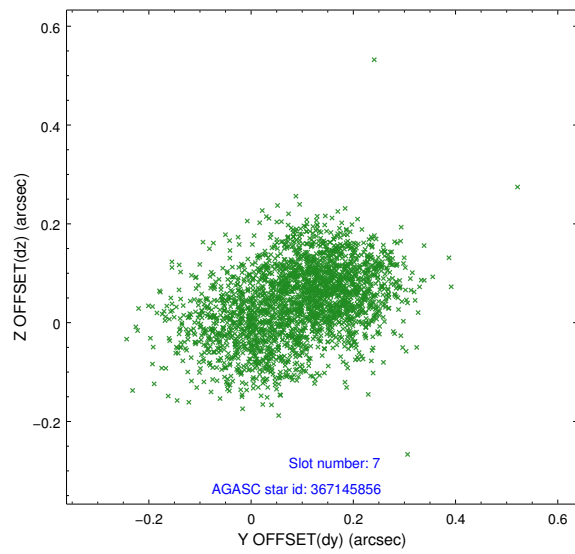
2.4.3 Slot 5



2.4.4 Slot 6

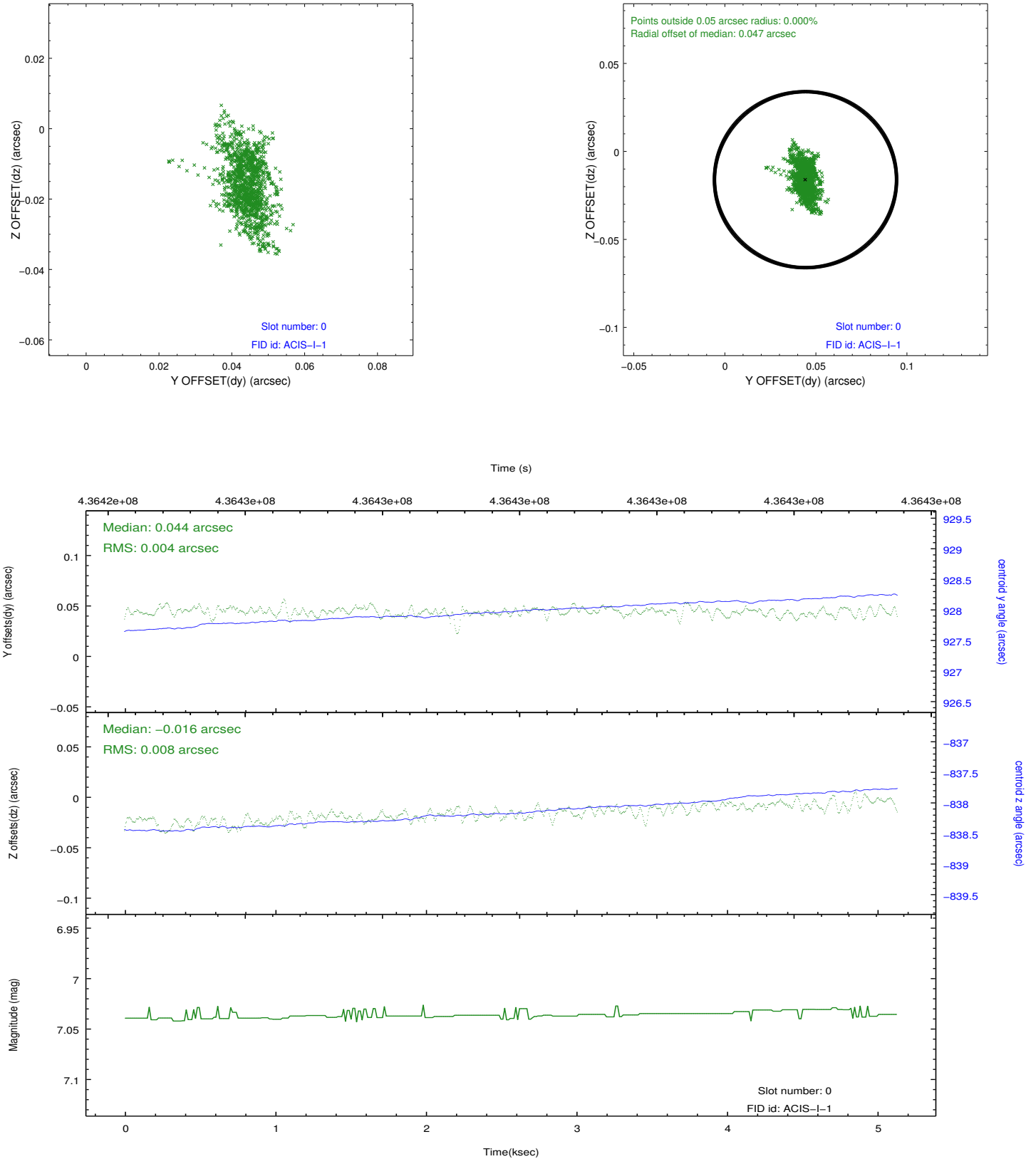


2.4.5 Slot 7

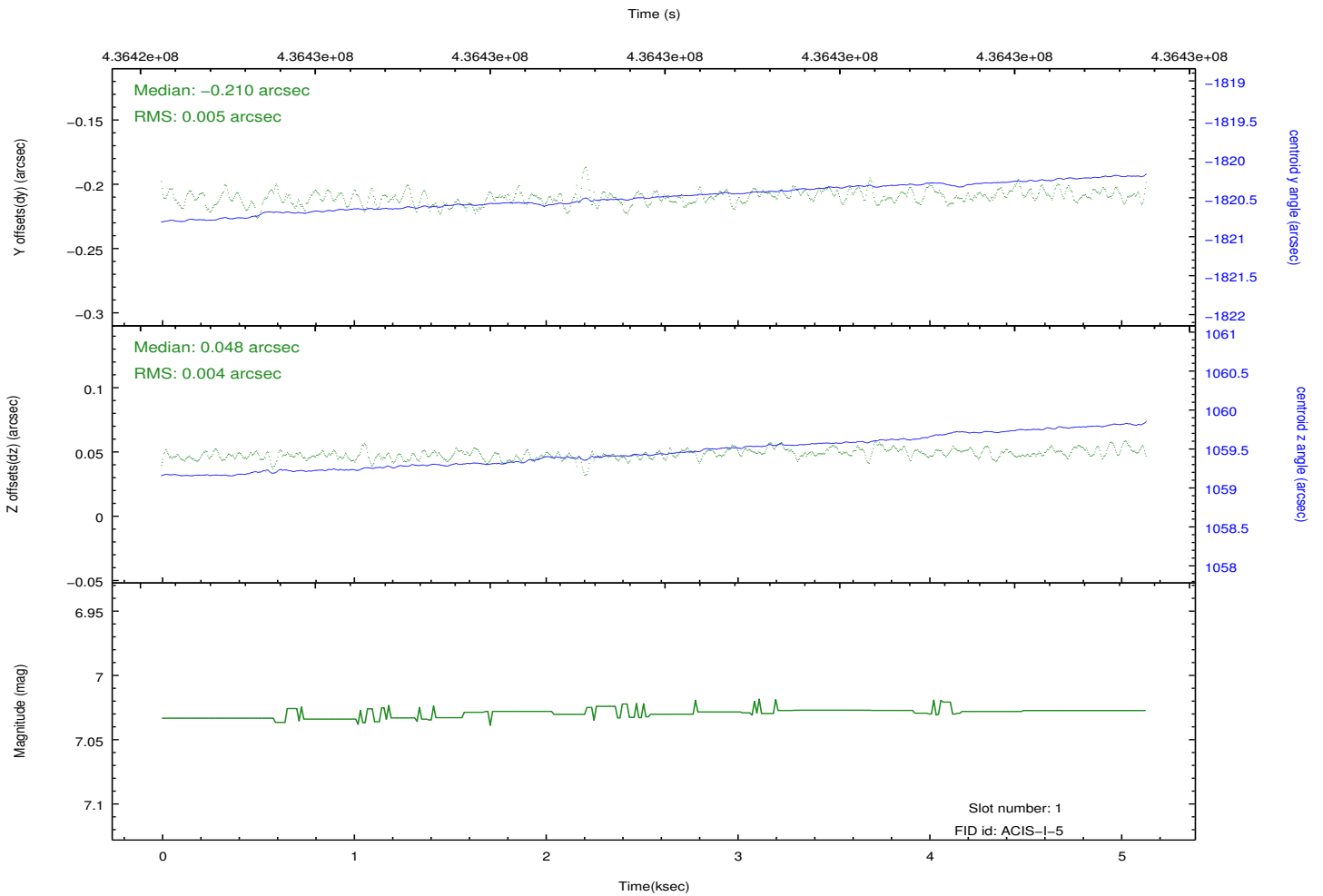
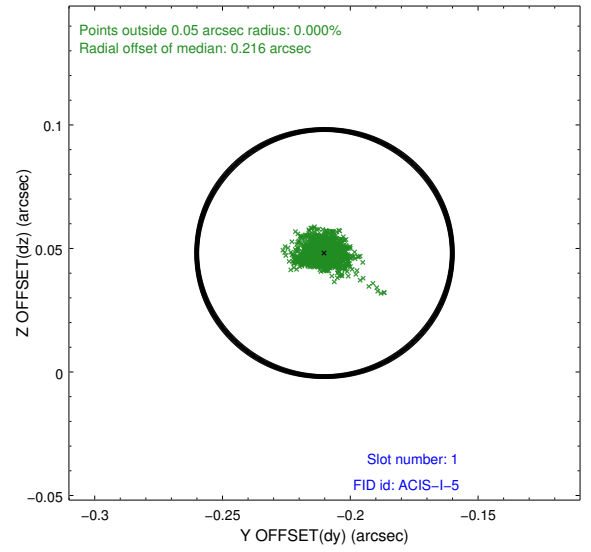
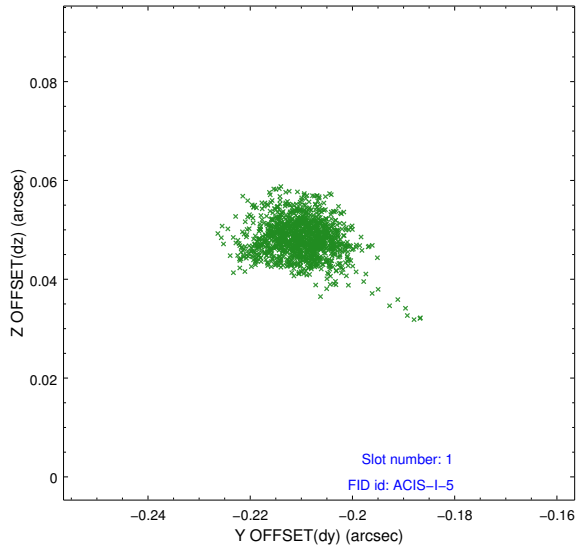


2.5 FID Slots

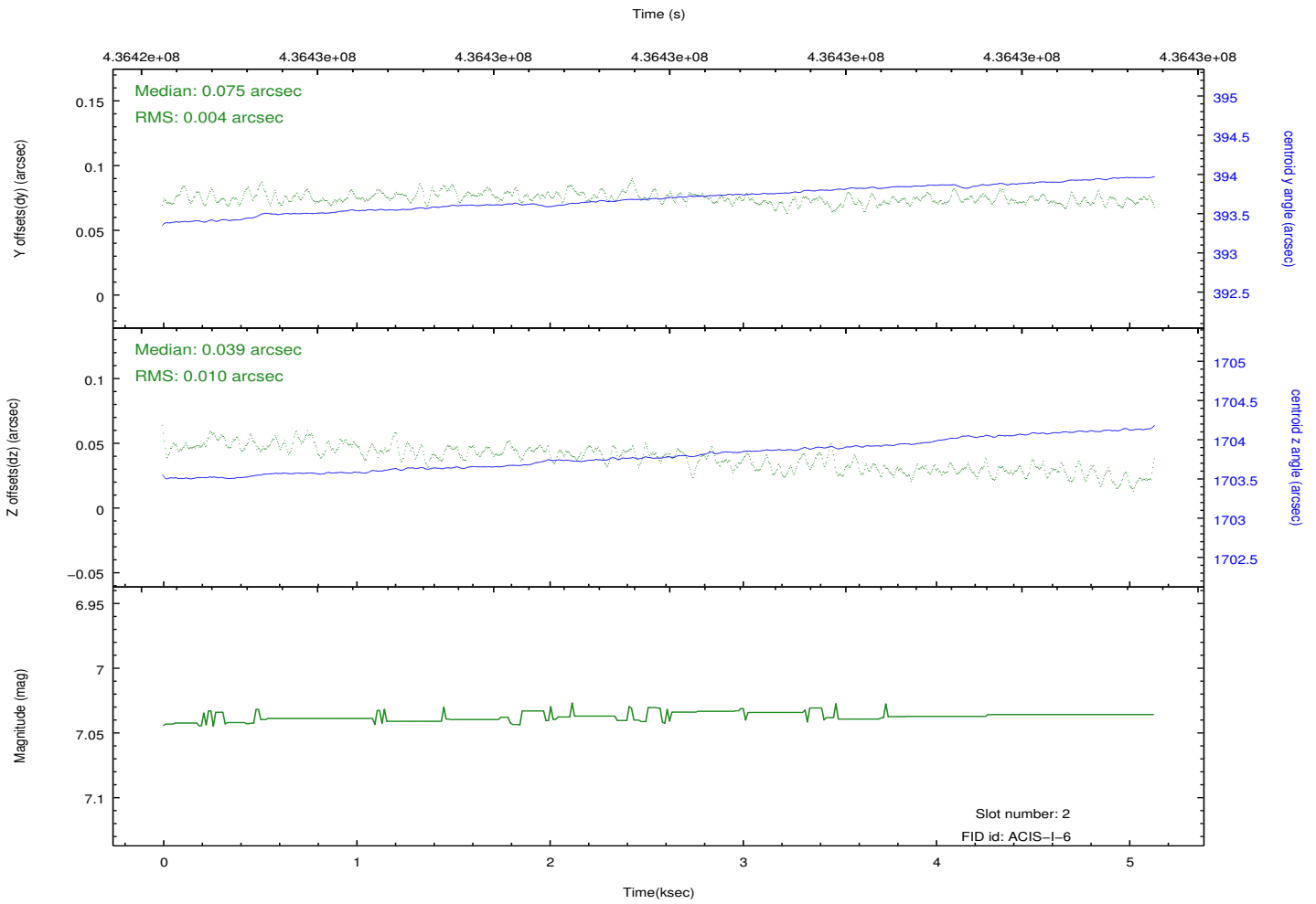
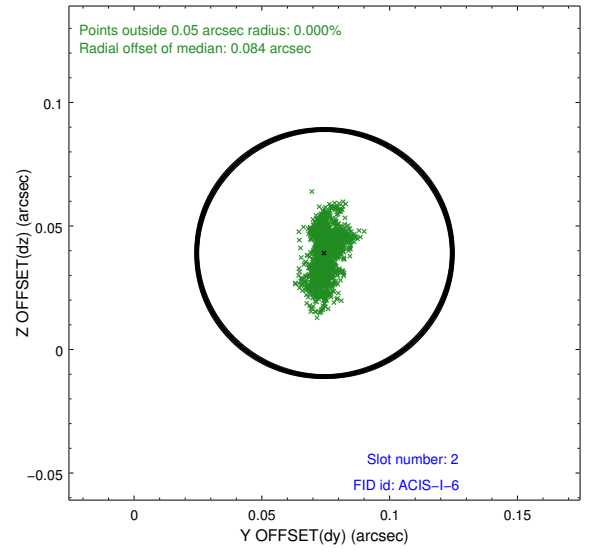
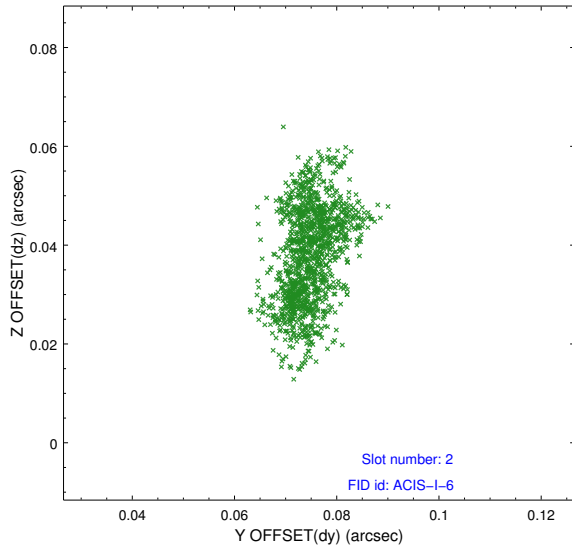
2.5.1 Slot 0



2.5.2 Slot 1



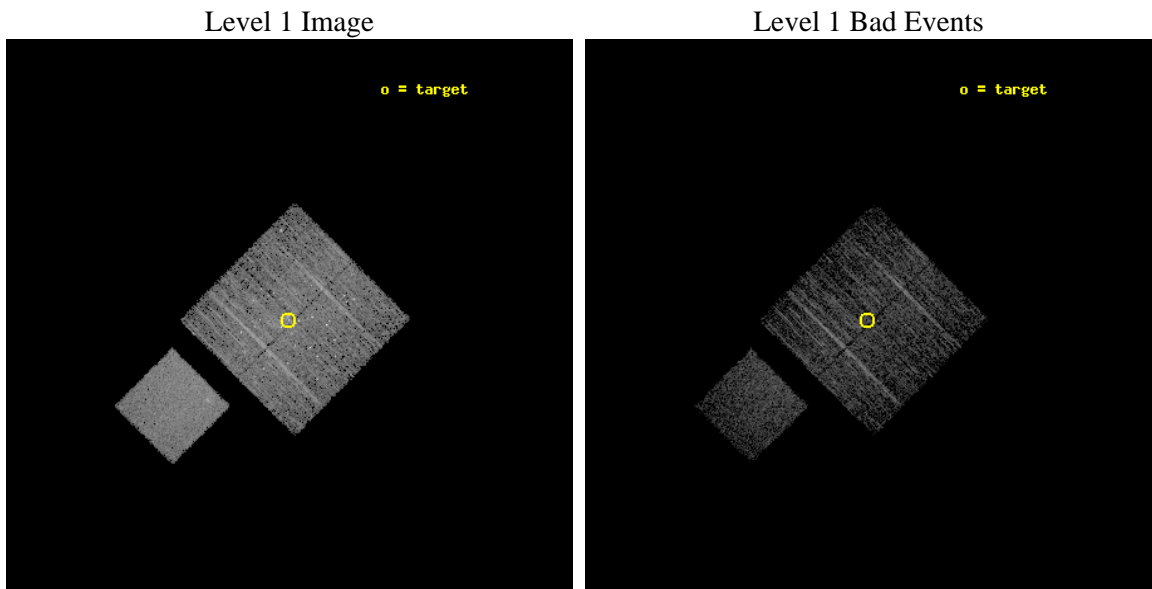
2.5.3 Slot 2



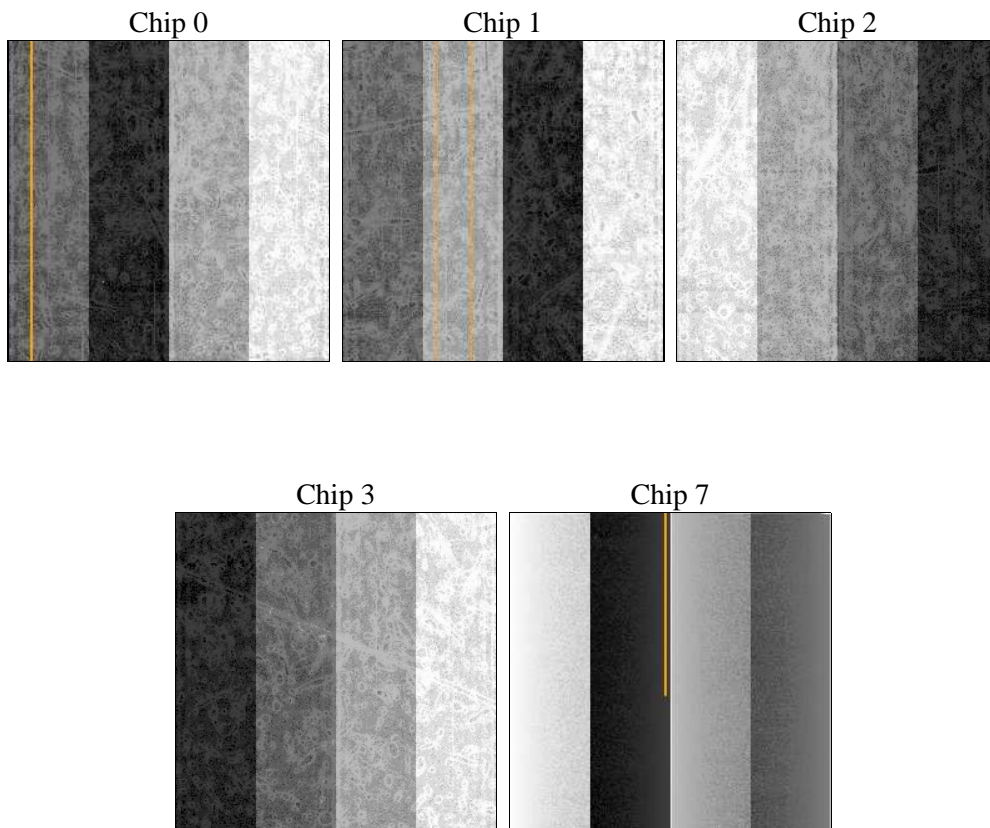
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	4008.4088758826	Sum of GTIs [s]
caldbver	4.4.8	 	ontime0	4008.4089052081	Sum of GTIs [s]
date	2012-03-02T14:20:39	Date and time of file creation	ontime1	4008.4089847207	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4008.408964932	Sum of GTIs [s]
			ontime3	4008.4088758826	Sum of GTIs [s]
			ontime7	4008.4080196023	Sum of GTIs [s]
			l1events	134422	Number of level 1 events

3.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	25041	23983	24313	28661	32424
rejected events	18828	19484	19707	22407	17937
rejected %	75%	81%	81%	78%	55%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	3569	2187	2480	3940	1367
	14%	9%	10%	13%	4%
grade 1 events	107	22	21	38	48
	0%	0%	0%	0%	0%
grade 2 events	1072	906	829	904	2935
	4%	3%	3%	3%	9%
grade 3 events	425	357	358	413	1318
	1%	1%	1%	1%	4%
grade 4 events	420	346	343	414	1284
	1%	1%	1%	1%	3%
grade 5 events	1240	1110	1073	1172	3395
	4%	4%	4%	4%	10%
grade 6 events	738	704	599	584	7588
	2%	2%	2%	2%	23%
grade 7 events	17470	18351	18610	21196	14489
	69%	76%	76%	73%	44%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.96224784469604

A.2 Comments

Joint Proposal: HST