

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13590 - L2 Version 2
Chandra X-Ray Center

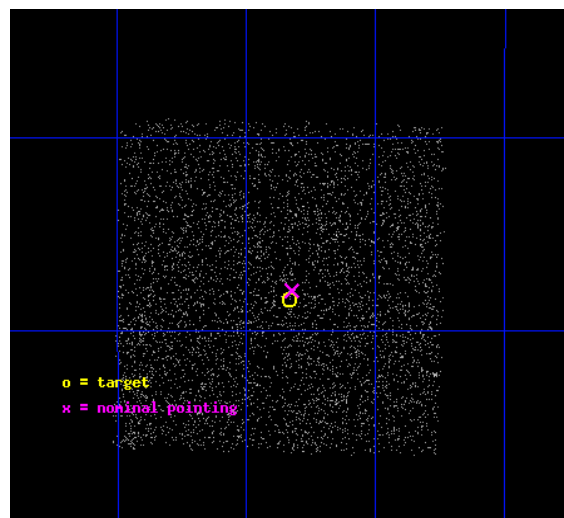
L2 Processing Date : Feb 16 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

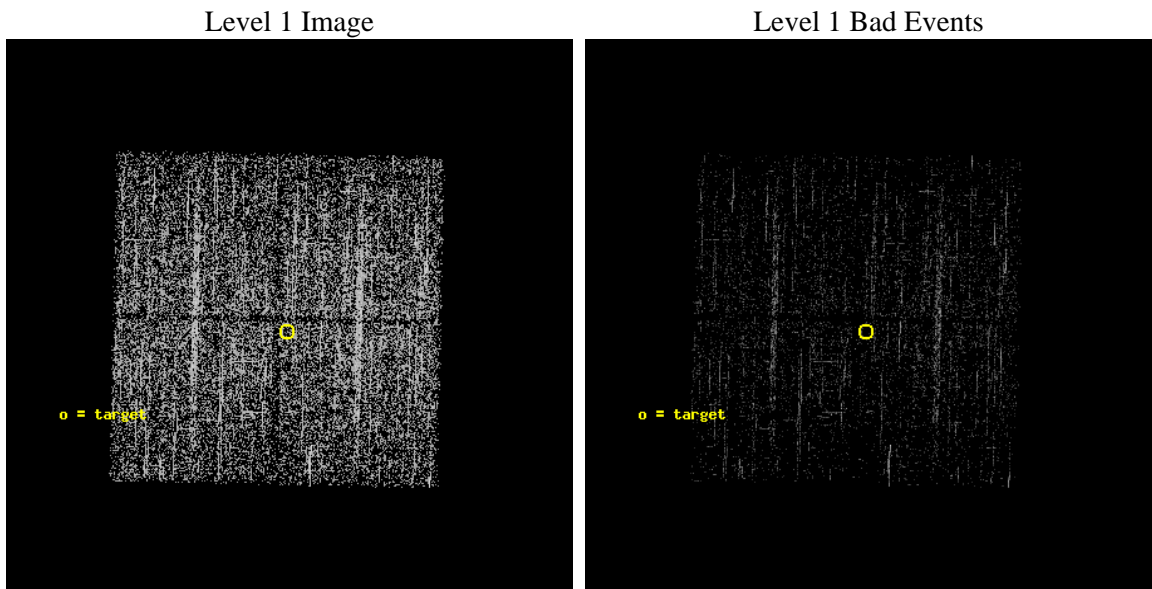
seq_num	401366	Sequence number
obs_id	13590	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.833999	Observer's specified target RA [deg]
dec_targ	-25.806362	Observer's specified target Dec [deg]
ra_nom	266.83111903319	Nominal RA [deg]
dec_nom	-25.798757883985	Nominal Dec [deg]
roll_nom	91.216328531307	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2088.4122428894	Sum of GTIs [s]
livetime	2061.1255994693	Livetime [s]
ontime0	2088.2891228795	Sum of GTIs [s]
ontime1	2088.3301628828	Sum of GTIs [s]
ontime2	2088.3712028861	Sum of GTIs [s]
ontime3	2088.4122428894	Sum of GTIs [s]
l2events	5743	Number of level 2 events



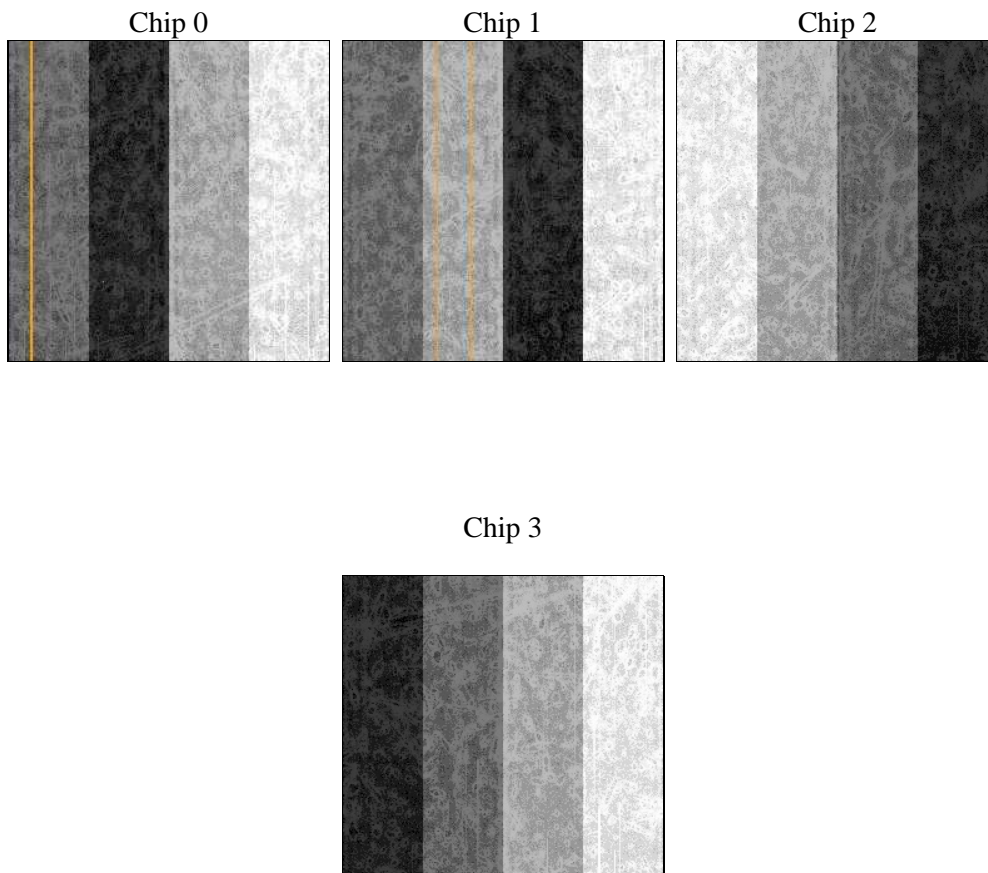
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	2088.4122428894	Sum of GTIs [s]
caldsver	4.4.7	 	ontime0	2088.2891228795	Sum of GTIs [s]
date	2012-02-16T04:33:38	Date and time of file creation	ontime1	2088.3301628828	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2088.3712028861	Sum of GTIs [s]
			ontime3	2088.4122428894	Sum of GTIs [s]
			l1events	48329	Number of level 1 events

2.1.4 Events

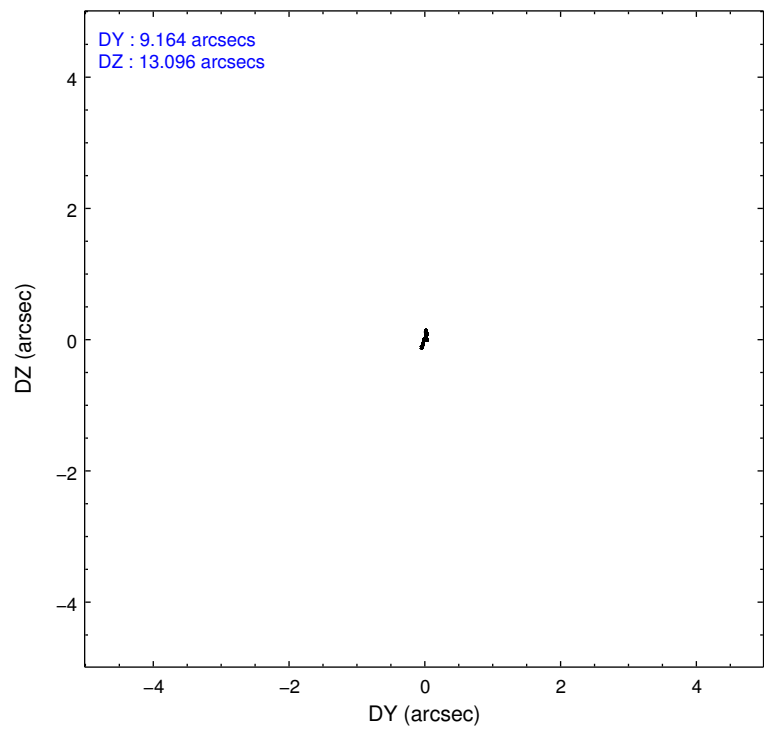
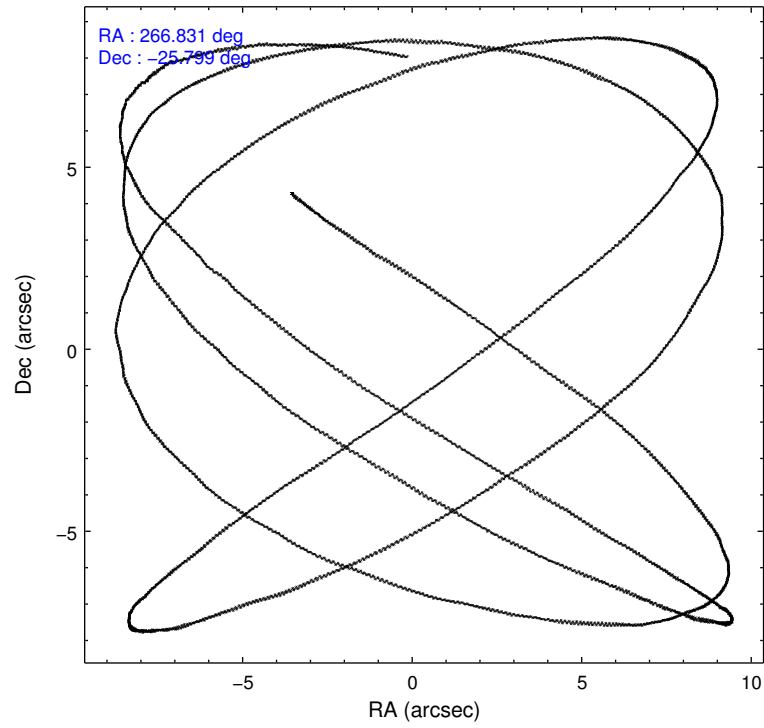
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	11485	11947	12883	12014
rejected events	9897	10140	11234	10352
rejected %	86%	84%	87%	86%

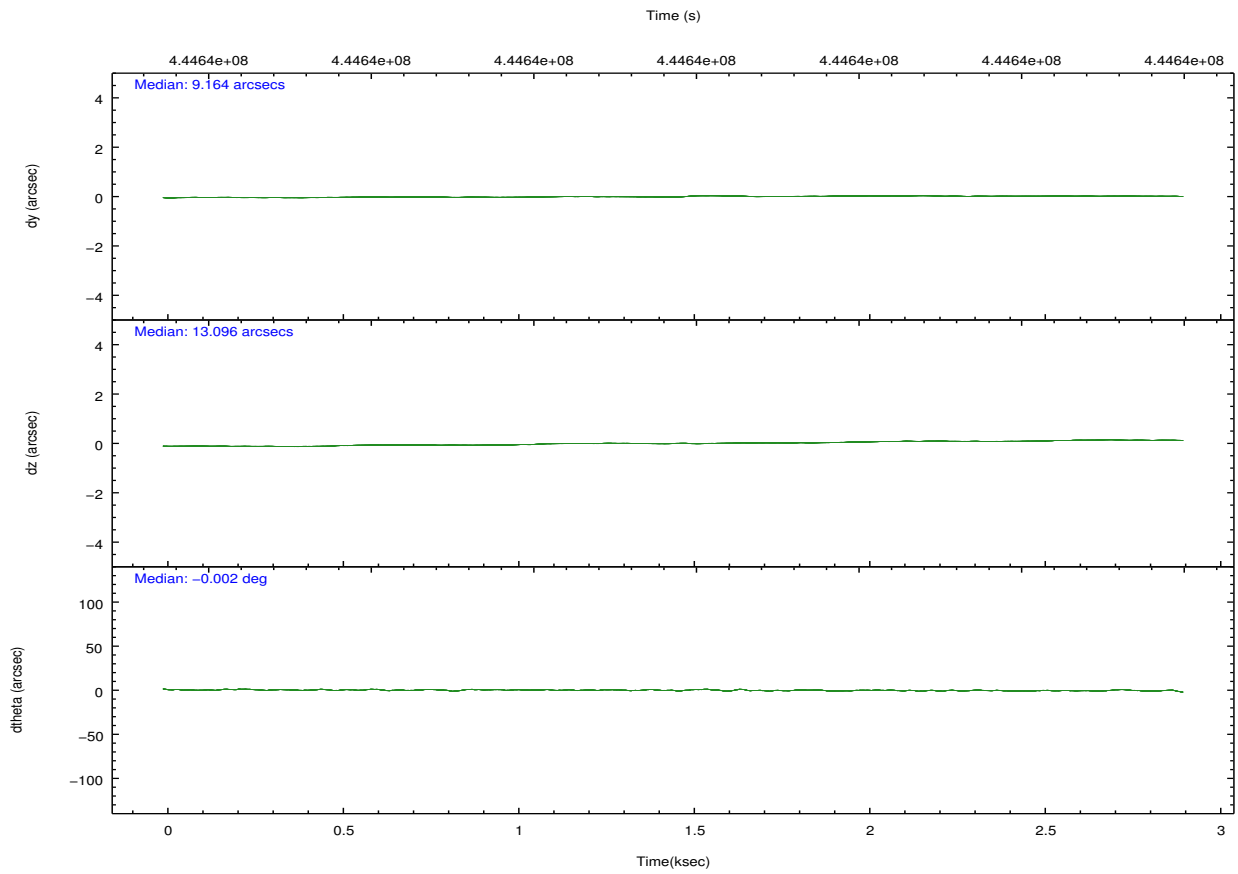
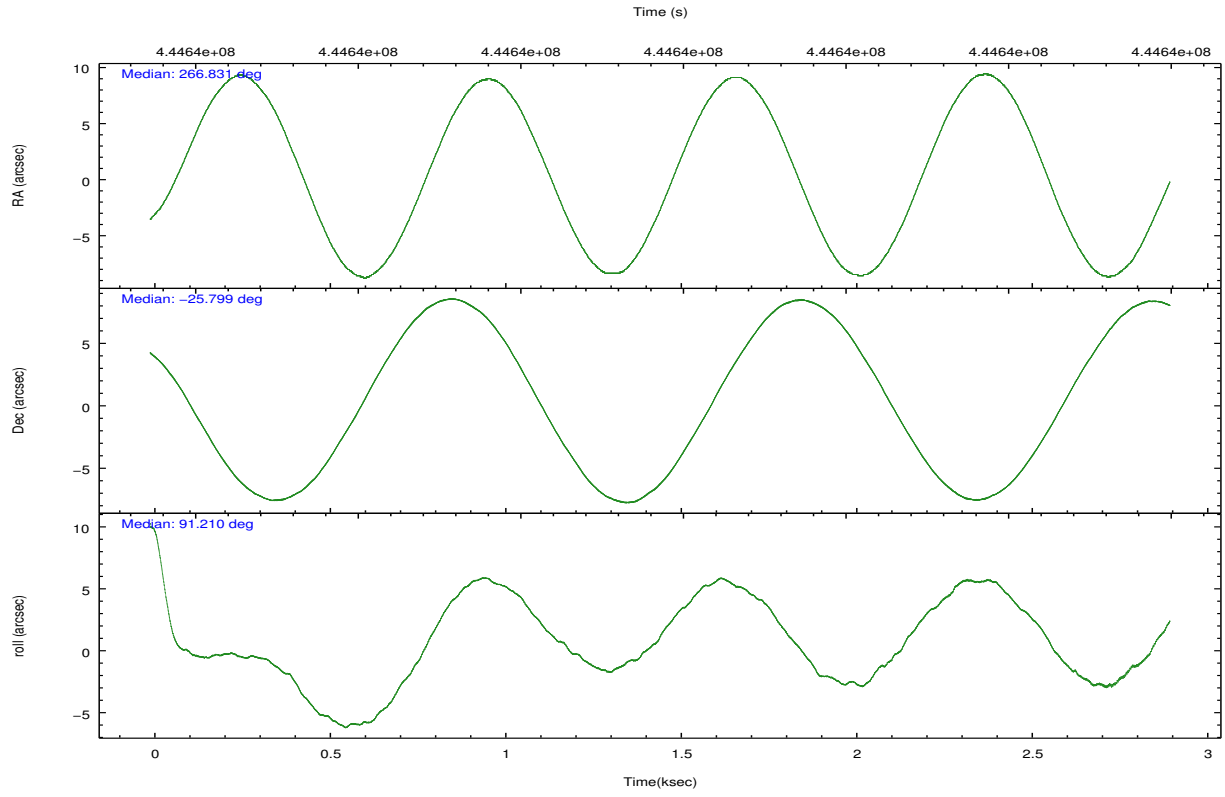
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	605	702	719	745
	5%	5%	5%	6%
grade 1 events	4	11	7	5
	0%	0%	0%	0%
grade 2 events	375	409	340	324
	3%	3%	2%	2%
grade 3 events	157	160	146	151
	1%	1%	1%	1%
grade 4 events	148	163	174	140
	1%	1%	1%	1%
grade 5 events	545	547	528	609
	4%	4%	4%	5%
grade 6 events	305	381	273	304
	2%	3%	2%	2%
grade 7 events	9346	9574	10696	9736
	81%	80%	83%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	266.847088	266.8311190331856	Subarray requested	NONE	NONE
[deg] Pointing Dec	-25.822158	-25.79875788398503	Alternating exposures requested	N	N
[deg] Pointing Roll	91.014597	91.21632853130703	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	444640381.184000	444639140.32287			
Observation start date	2012-02-03T07:11:55	2012-02-03T06:52:20			
[s] Observation end time (MET)	444642381.184000	444642692.97306			
Observation end date	2012-02-03T07:45:15	2012-02-03T07:51:32			
Read mode	TIMED	TIMED			

2.3 Aspect



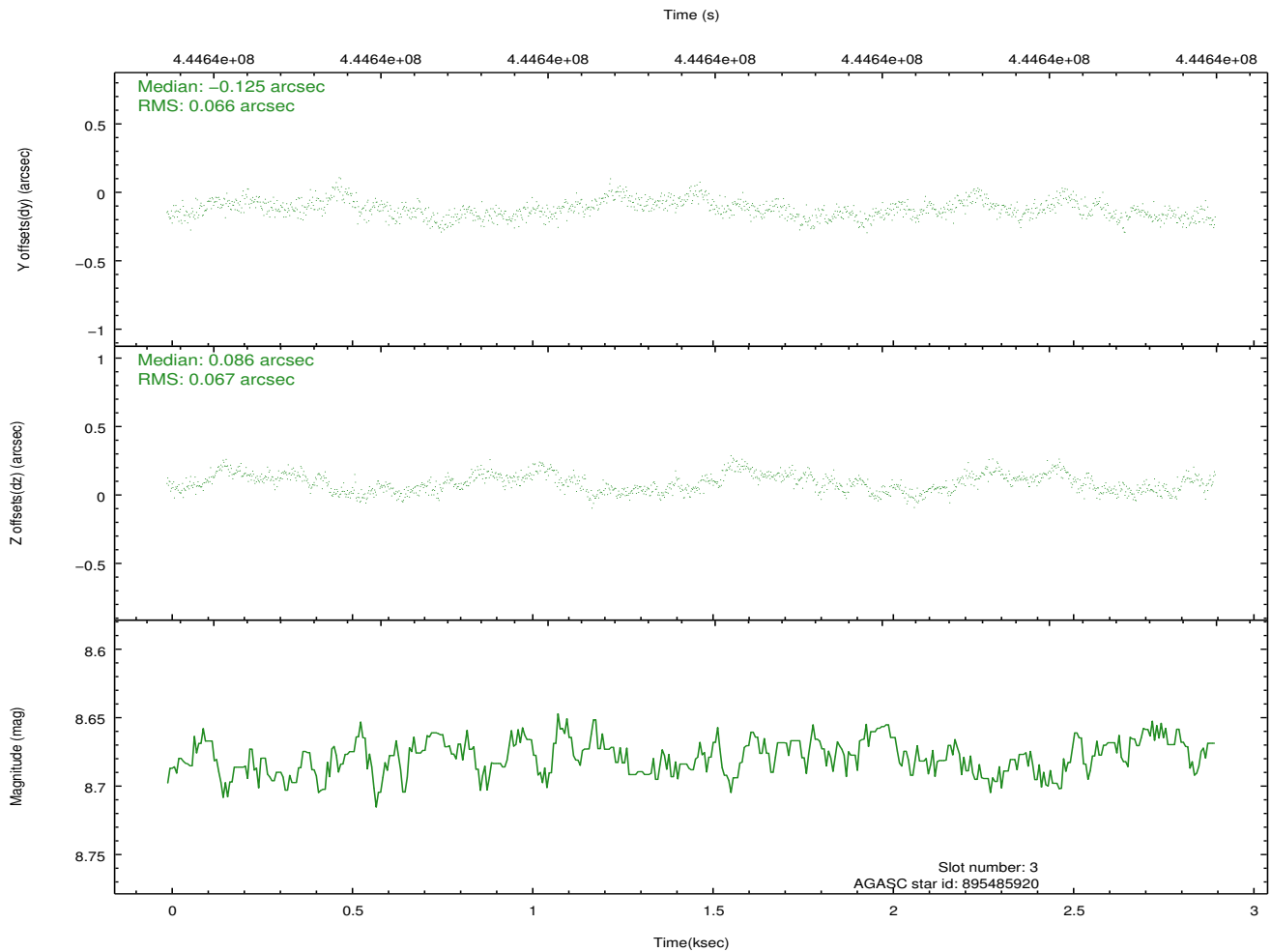
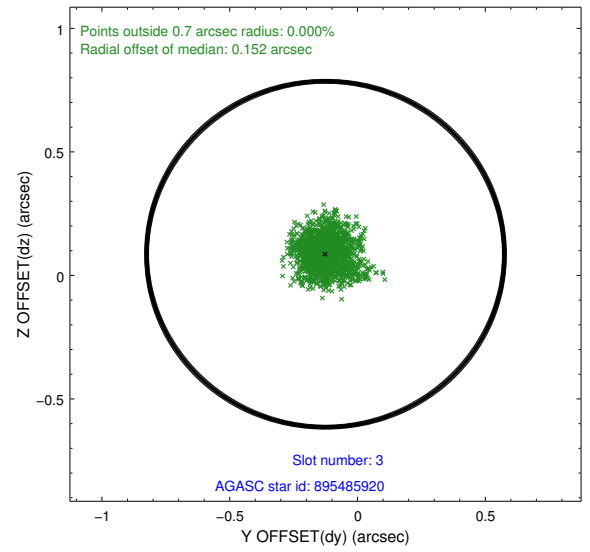
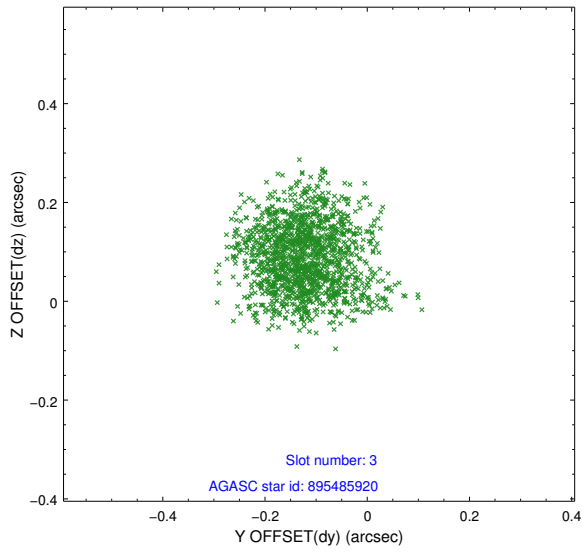


Slot Statistics

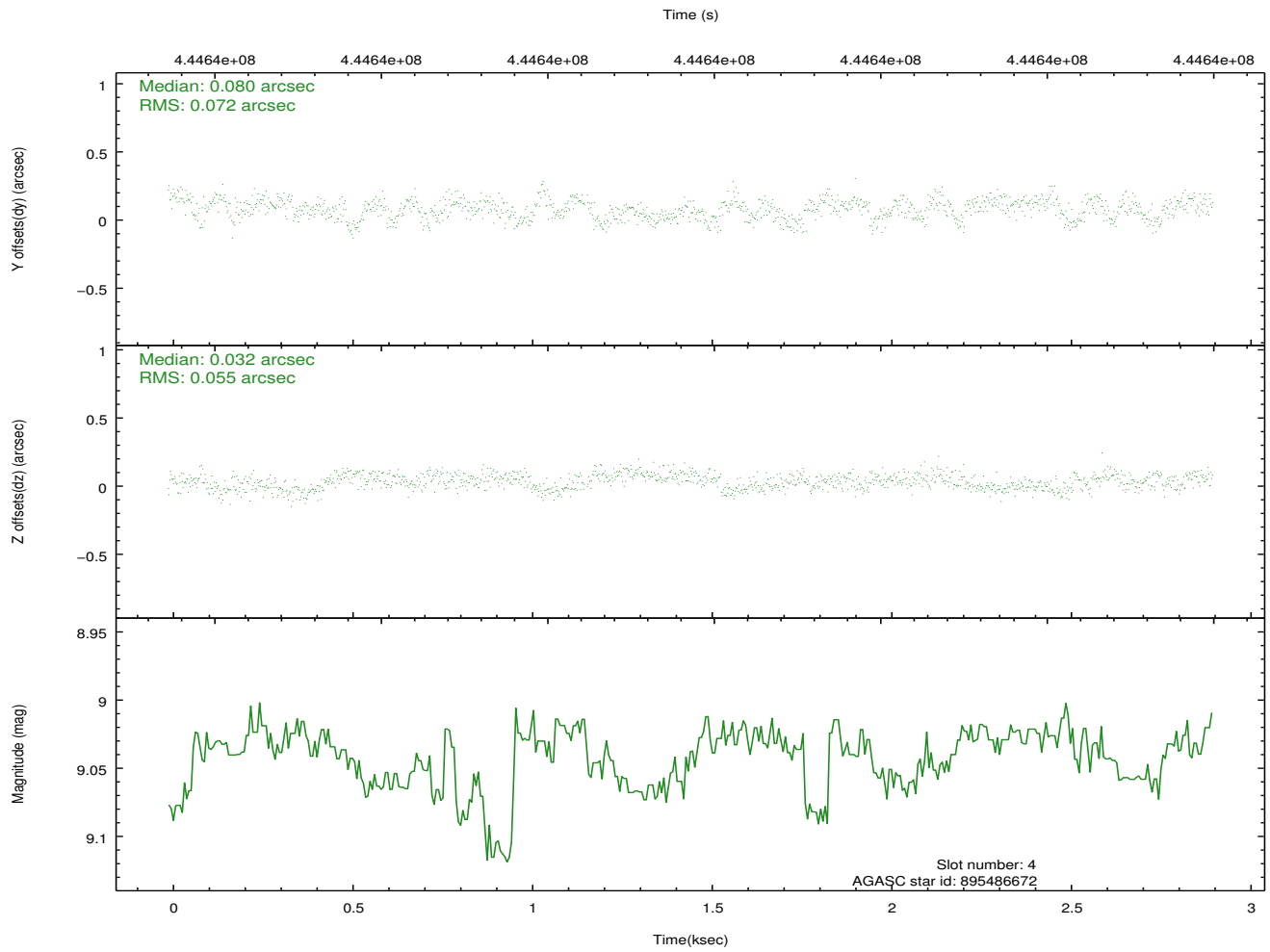
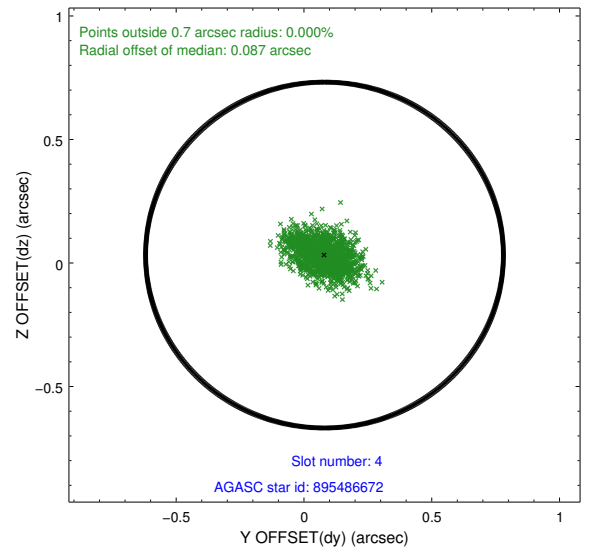
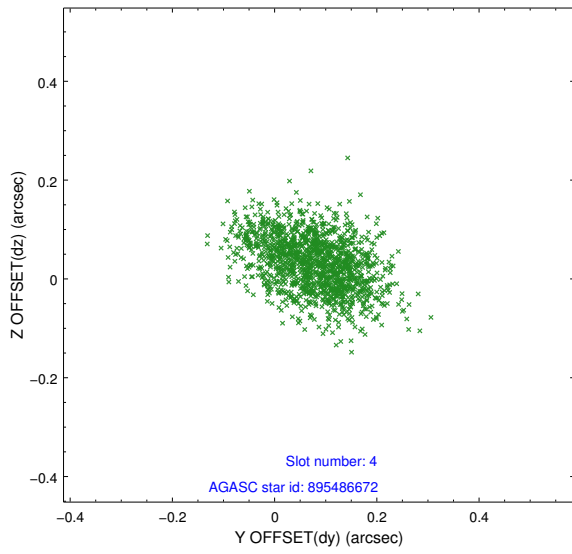
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.10	709	0.094	-0.034	0.006	0.013	0.000000	0.000000	930.55	-836.69
1	FID	ACIS-I-5	7.08	709	-0.227	0.096	0.006	0.010	0.000000	0.000000	-1816.65	1059.84
2	FID	ACIS-I-6	7.09	709	0.041	0.009	0.007	0.011	0.000000	0.000000	393.66	1706.75
3	GUIDE	895485920	8.68	1419	-0.125	0.086	0.101	0.159	266.932426	-25.188840	2274.97	-318.16
4	GUIDE	895486672	9.04	1416	0.080	0.032	0.095	0.156	267.522168	-25.216127	2138.84	-2236.82
5	GUIDE	895489704	8.75	1419	-0.104	-0.215	0.089	0.139	266.328076	-25.361339	1686.13	1656.90
6	GUIDE	895489896	7.58	1419	-0.028	-0.146	0.067	0.107	266.605795	-26.200300	-1346.47	804.17
7	GUIDE	896009584	9.25	1408	0.178	0.243	0.098	0.159	266.891313	-26.347528	-1893.82	-108.68

2.4 Star Slots

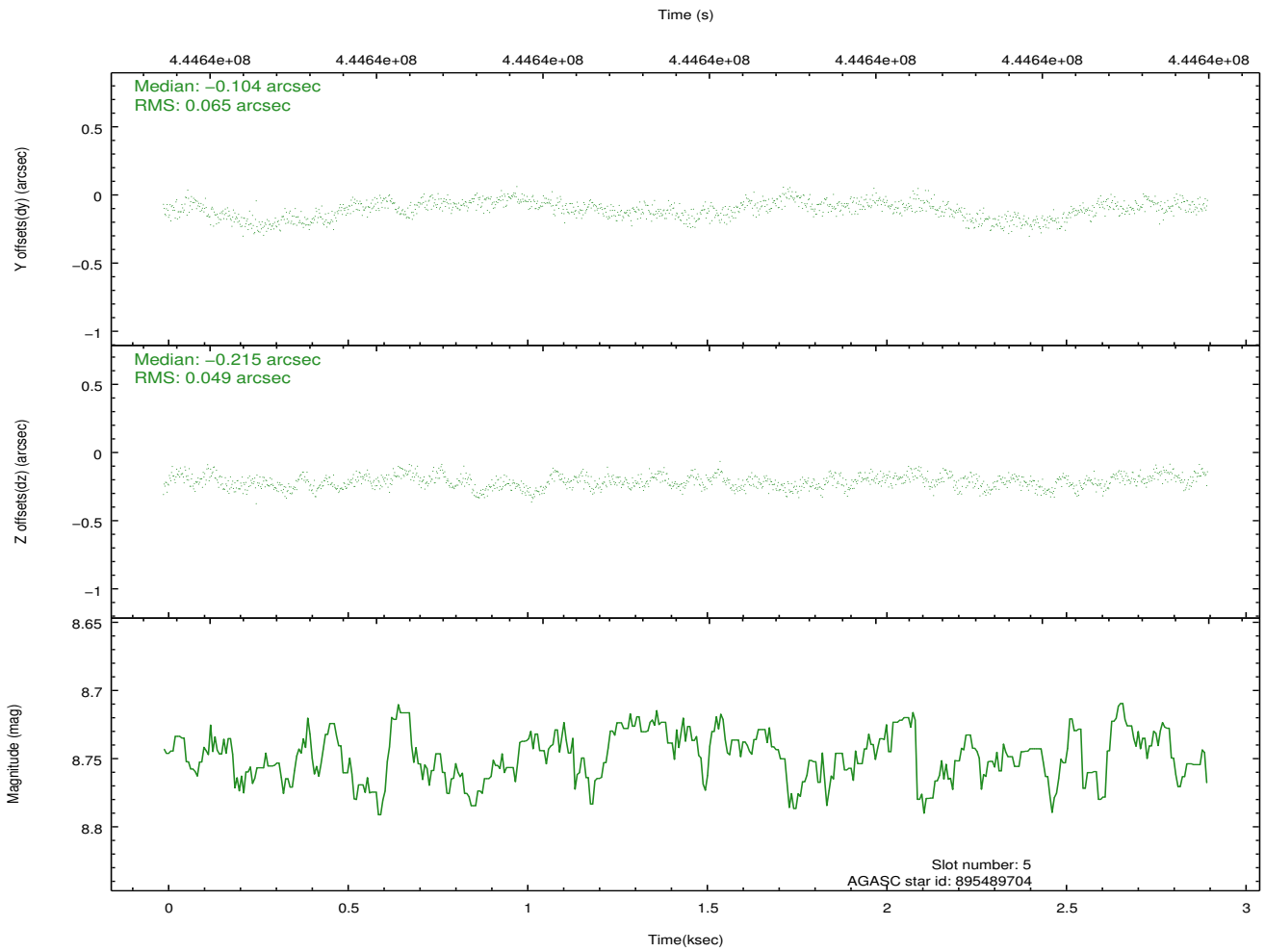
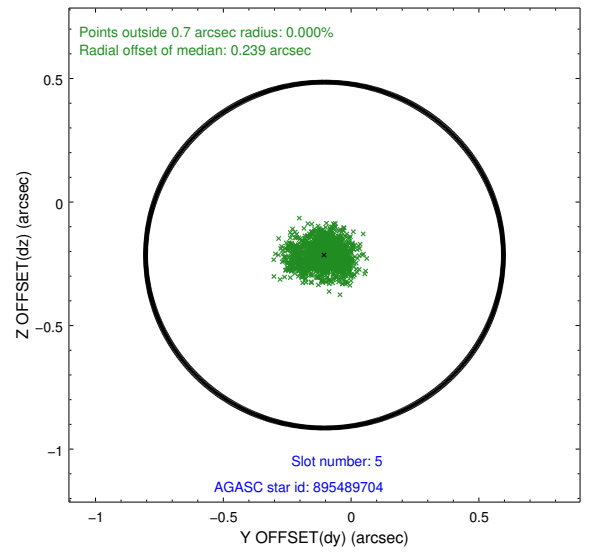
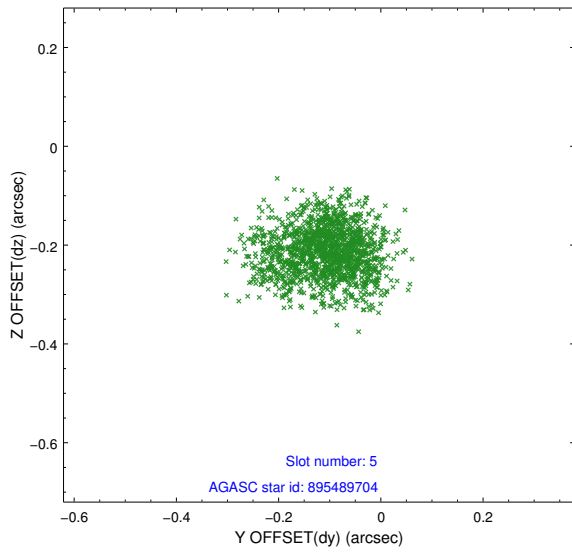
2.4.1 Slot 3



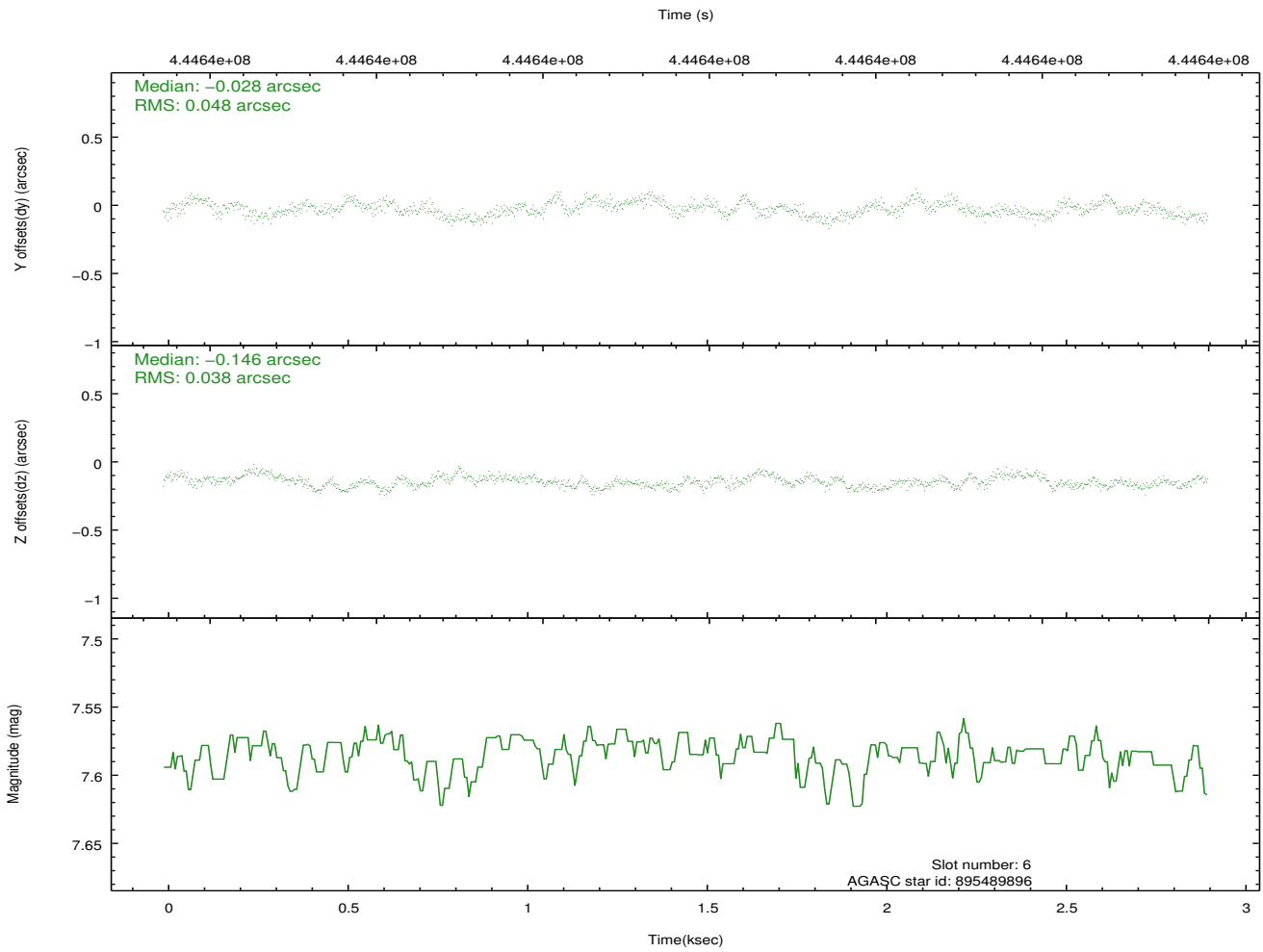
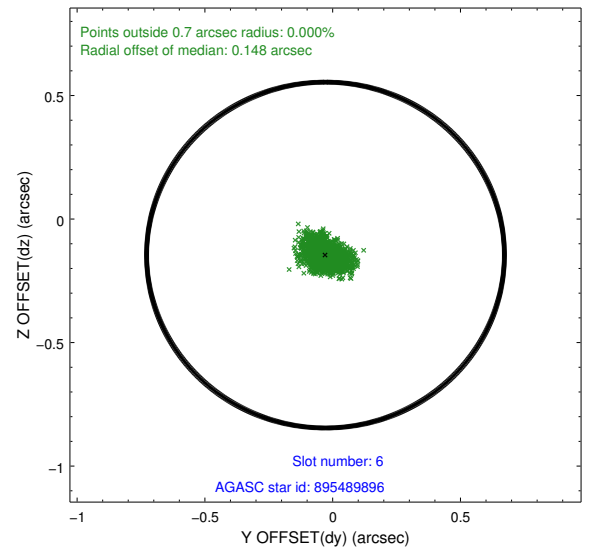
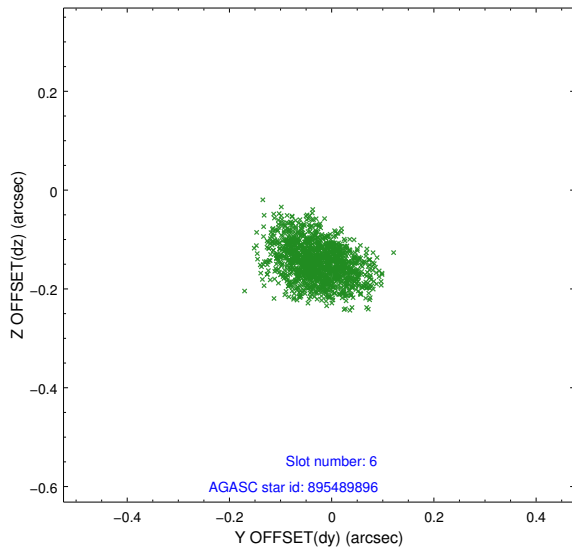
2.4.2 Slot 4



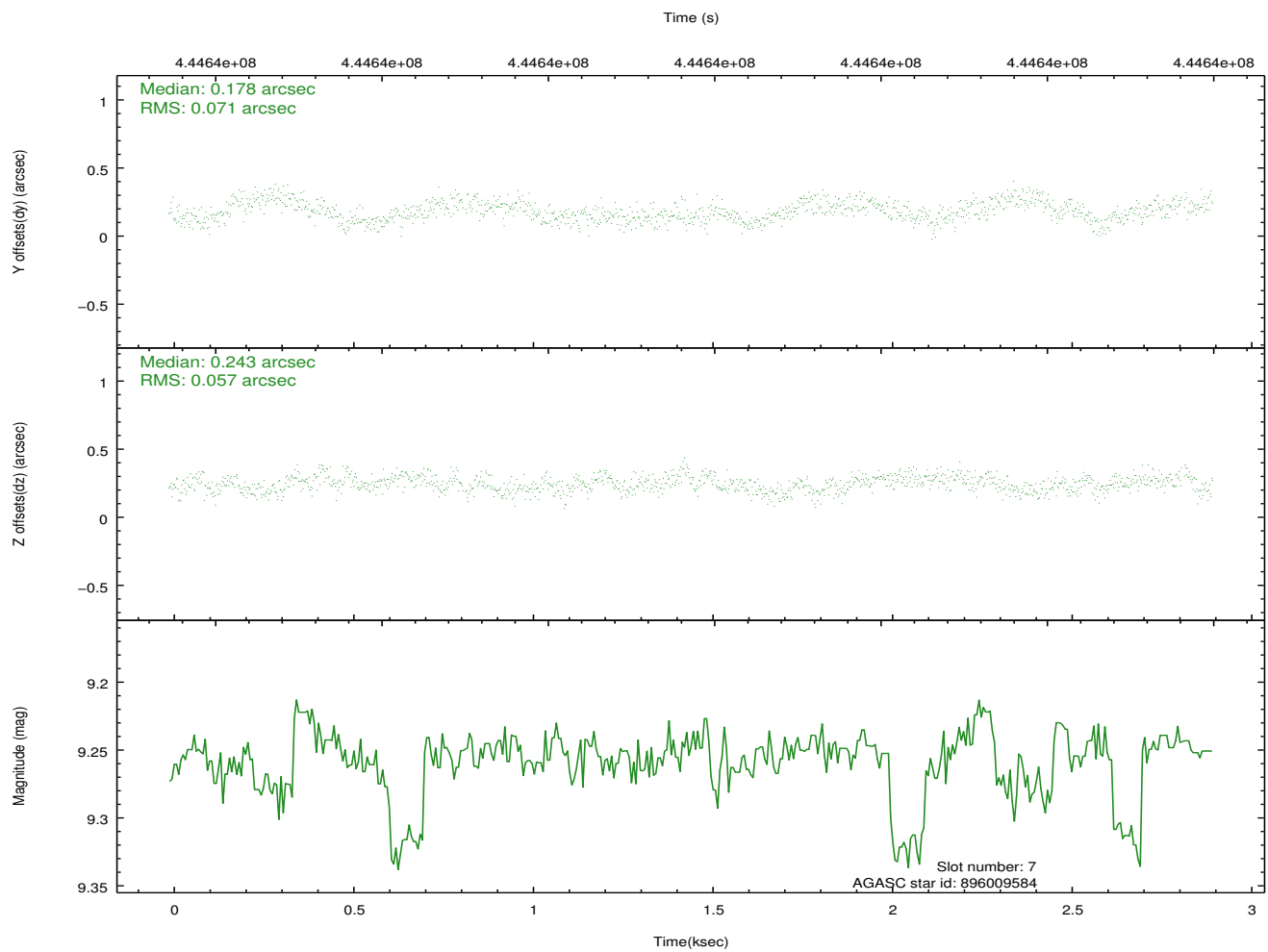
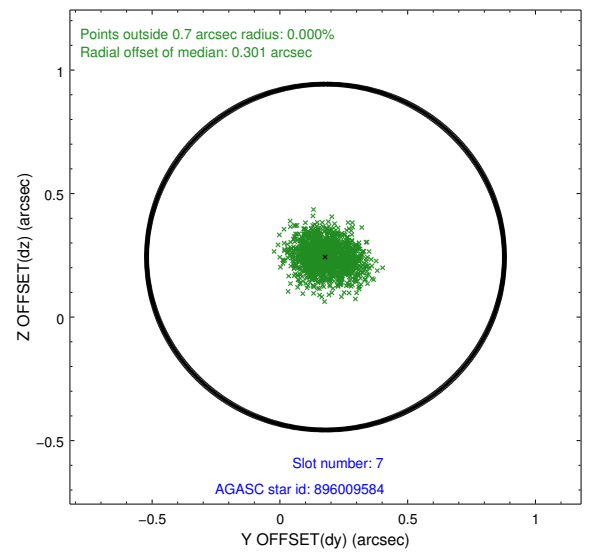
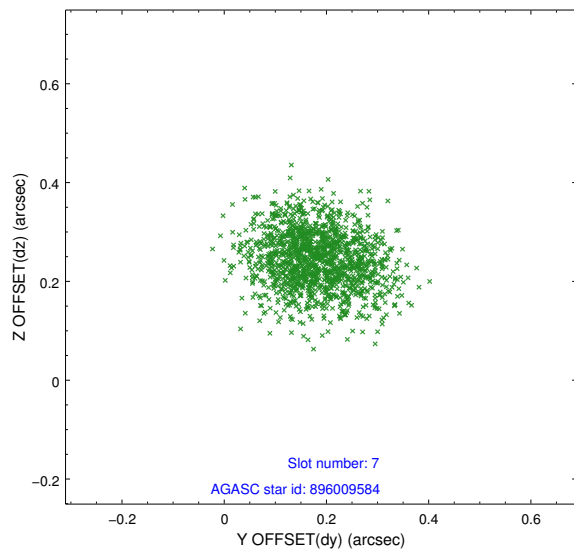
2.4.3 Slot 5



2.4.4 Slot 6

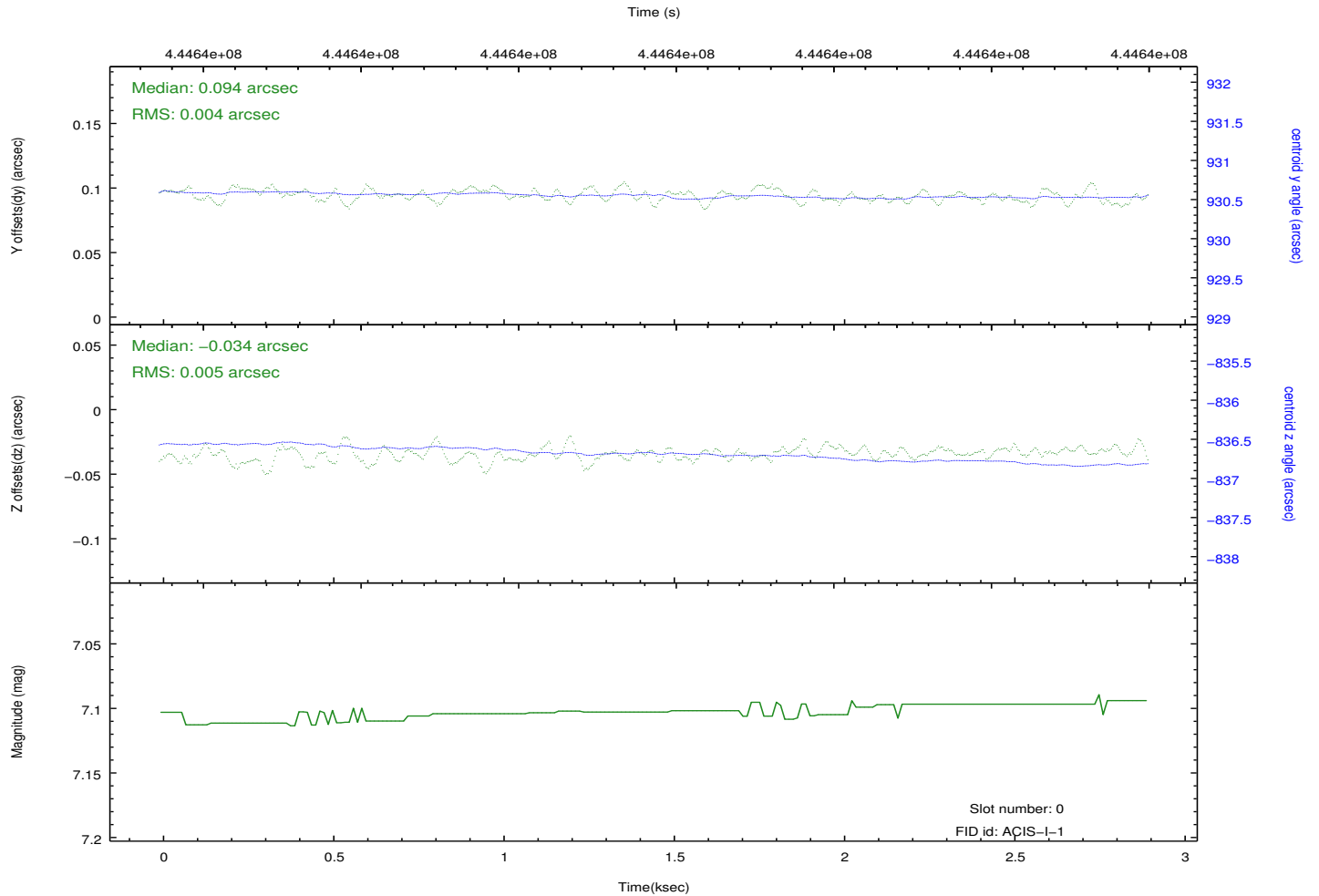
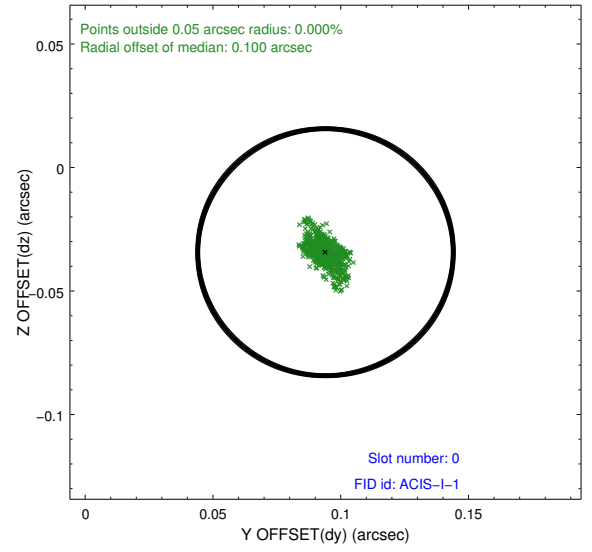
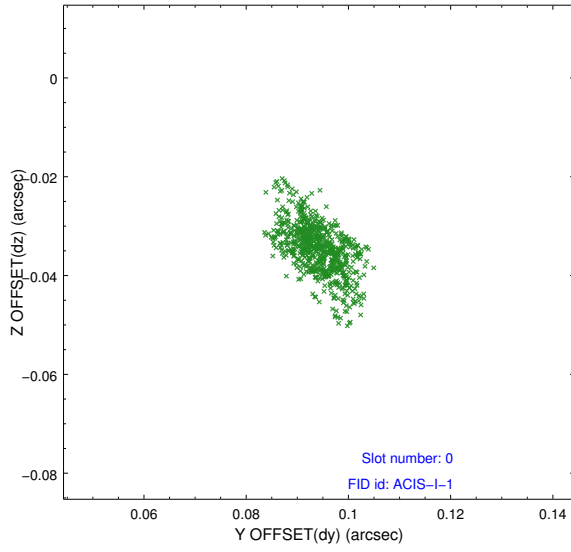


2.4.5 Slot 7

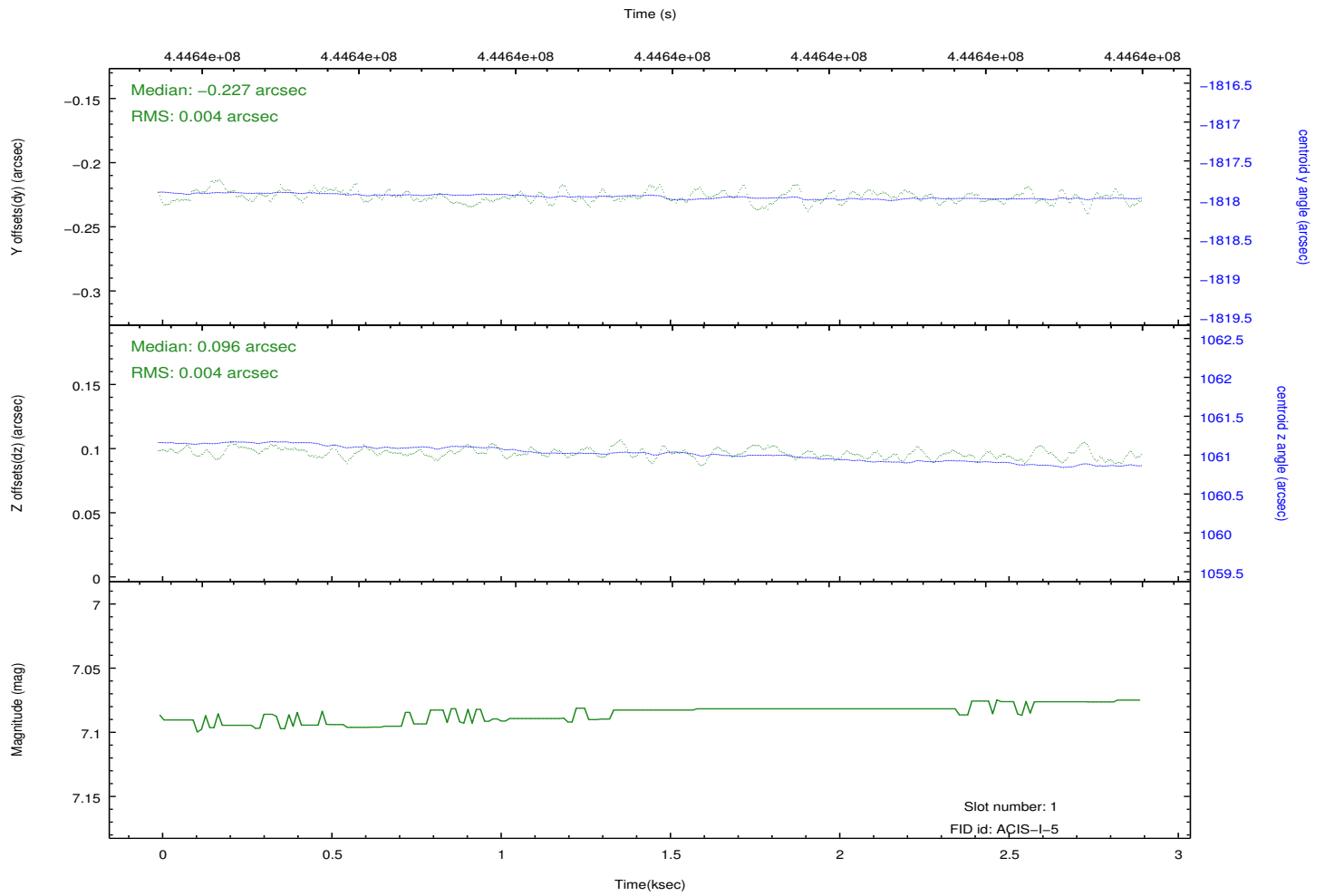
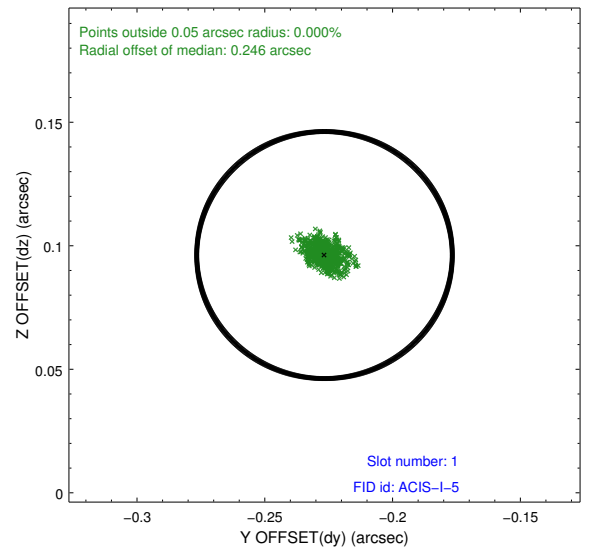
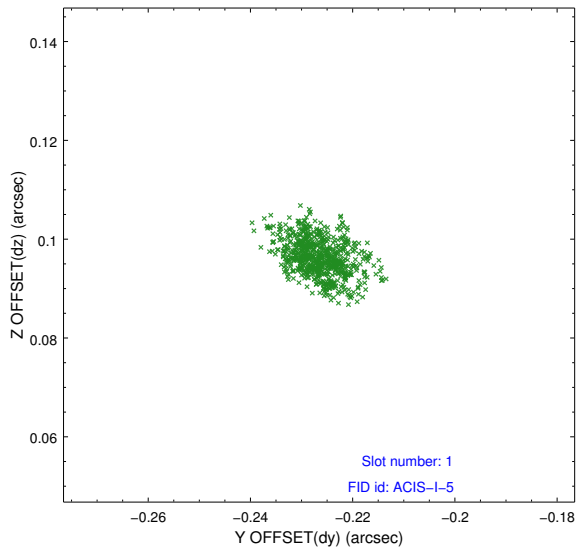


2.5 FID Slots

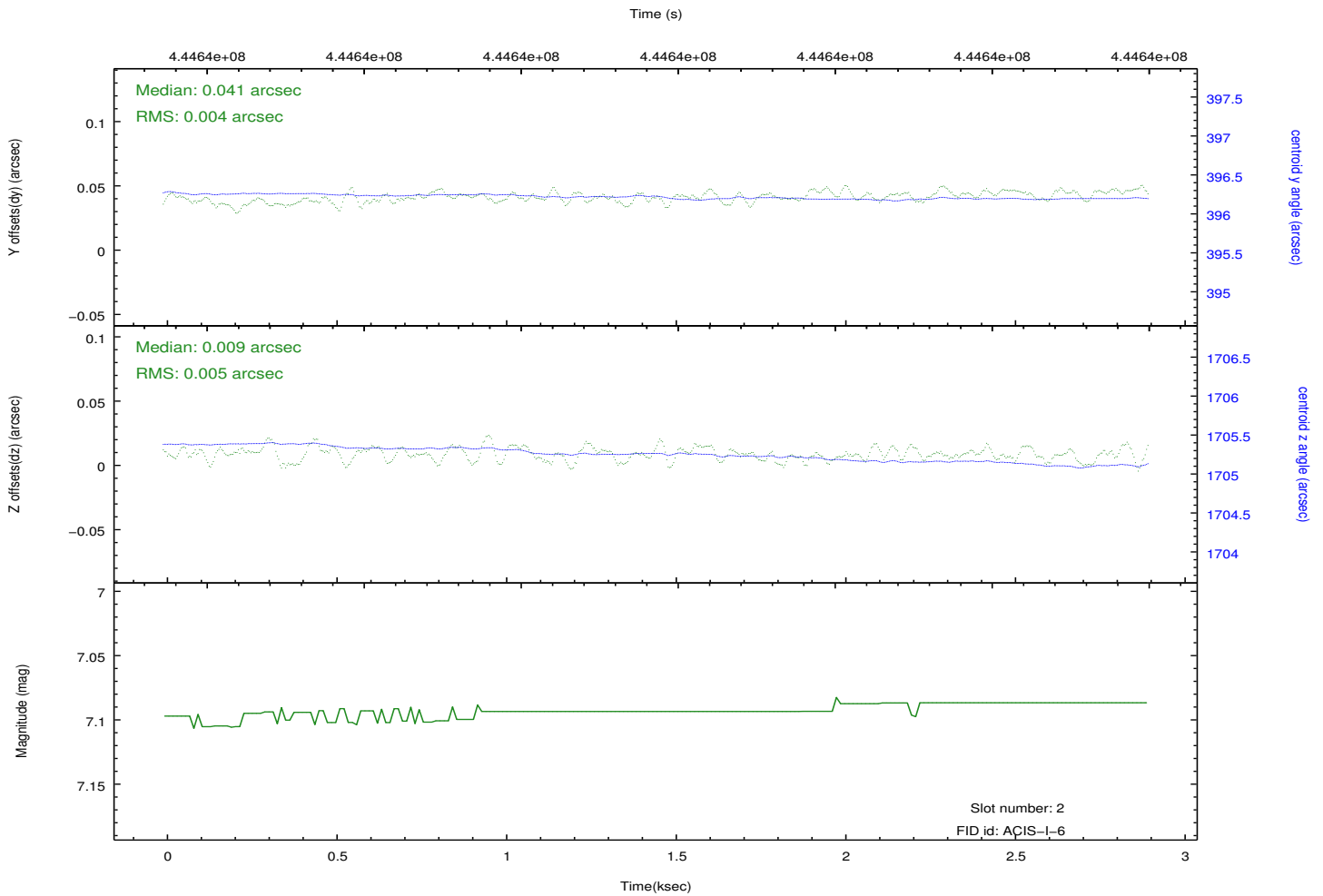
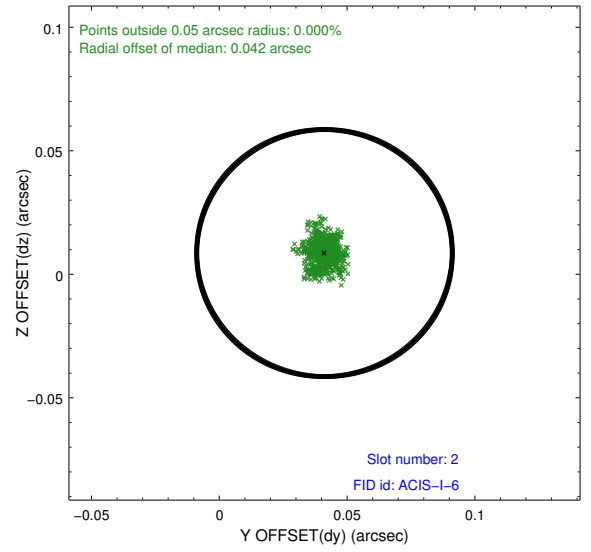
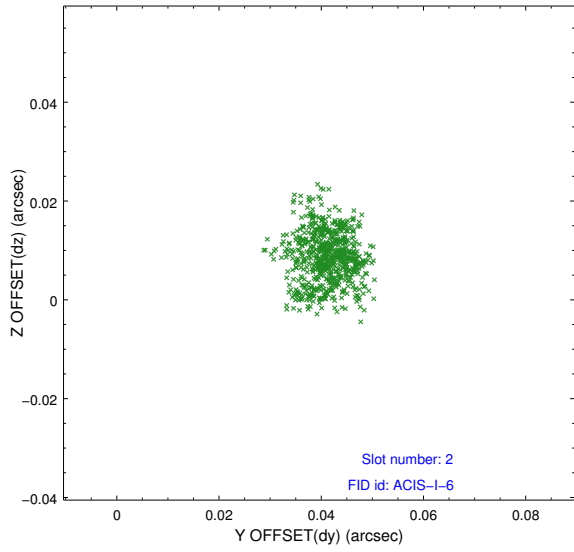
2.5.1 Slot 0



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)	2012.02.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0884122428894

A.2 Comments

A spatial region of the original bias map for CCD = 3 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(266.74437, -25.93830), (266.74725, -25.93826), (266.74550, -25.86138), (266.74268, -25.86401)

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Joint Proposal: NOAO