

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17126 - L2 Version 2
Chandra X-Ray Center

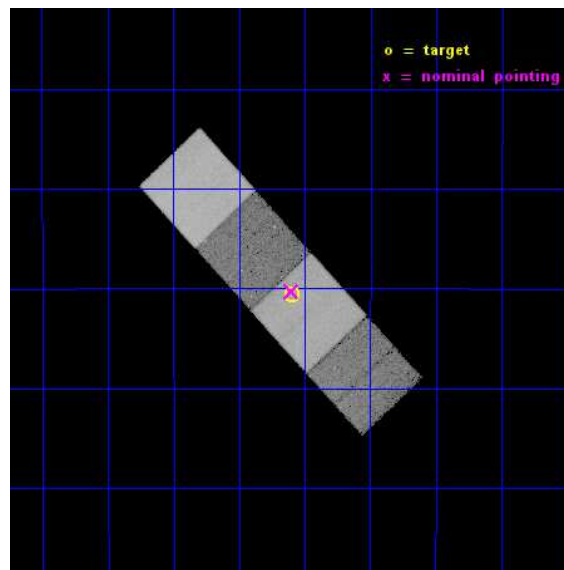
L2 Processing Date : Mar 11 2015

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 6	11
2.4.4	Slot 7	12
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

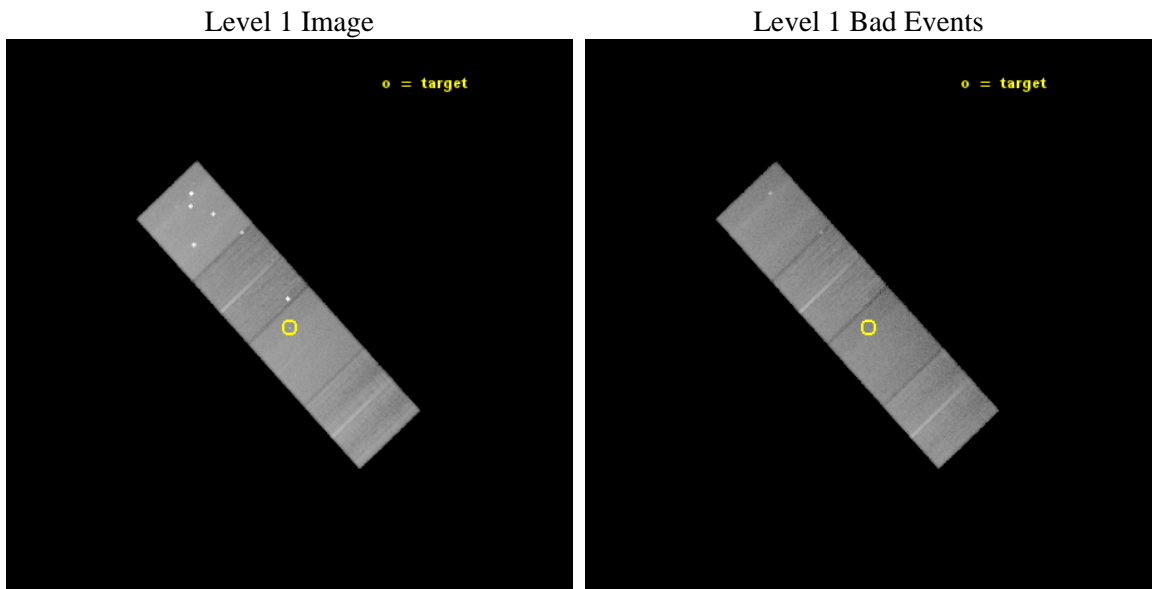
seq_num	703125	Sequence number
obs_id	17126	Observation id
title	The Curious Case of NGC 4968	Proposal title
observer	Dr Stephanie LaMassa	Principal investigator
object	NGC 4968	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	196.775	Observer's specified target RA [deg]
dec_targ	-23.676944	Observer's specified target Dec [deg]
ra_nom	196.77540498922	Nominal RA [deg]
dec_nom	-23.671517757404	Nominal Dec [deg]
roll_nom	47.066094435494	Nominal Roll [deg]
revision	2	Processing version of data
ontime	50061.900385141	Sum of GTIs [s]
livetime	49407.804801575	Livetime [s]
ontime5	50061.900385141	Sum of GTIs [s]
ontime6	50061.900385141	Sum of GTIs [s]
ontime7	50061.900385141	Sum of GTIs [s]
ontime8	50061.900385141	Sum of GTIs [s]
l2events	374984	Number of level 2 events



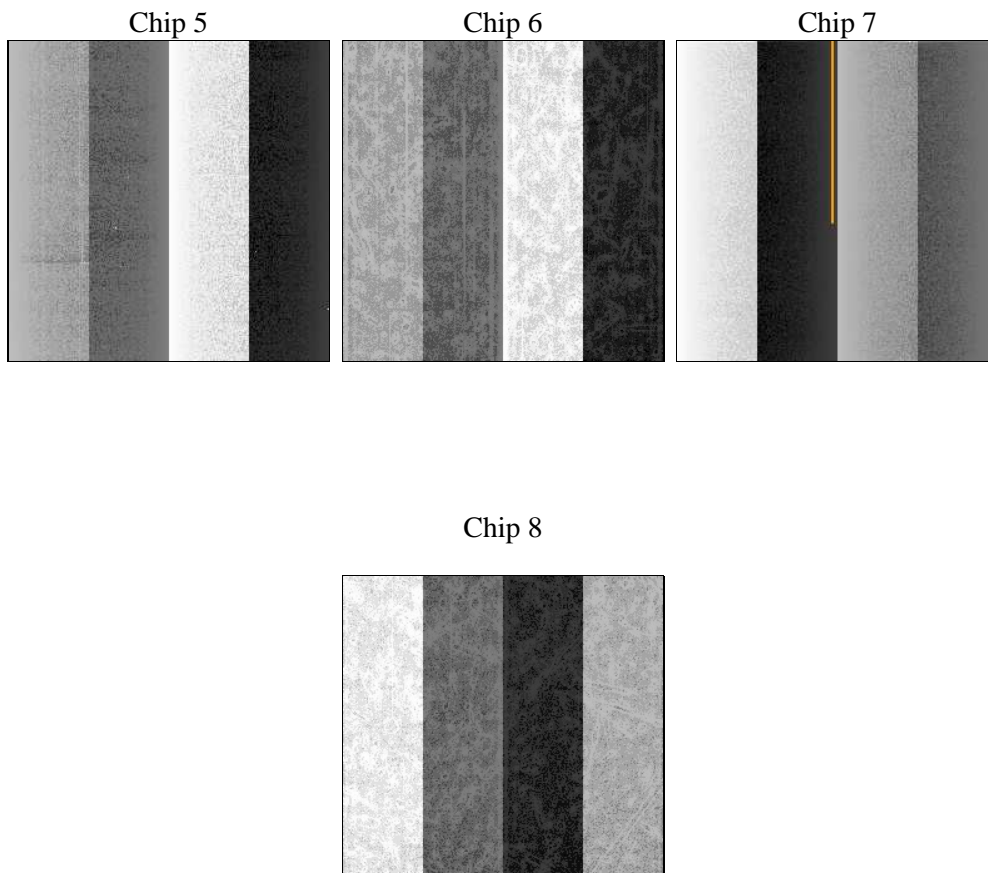
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	50000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	50061.900385141	Sum of GTIs [s]
caldsver	4.6.7	 	ontime5	50061.900385141	Sum of GTIs [s]
date	2015-03-12T01:56:34	Date and time of file creation	ontime6	50061.900385141	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	50061.900385141	Sum of GTIs [s]
			ontime8	50061.900385141	Sum of GTIs [s]
			l1events	1391840	Number of level 1 events

2.1.4 Events

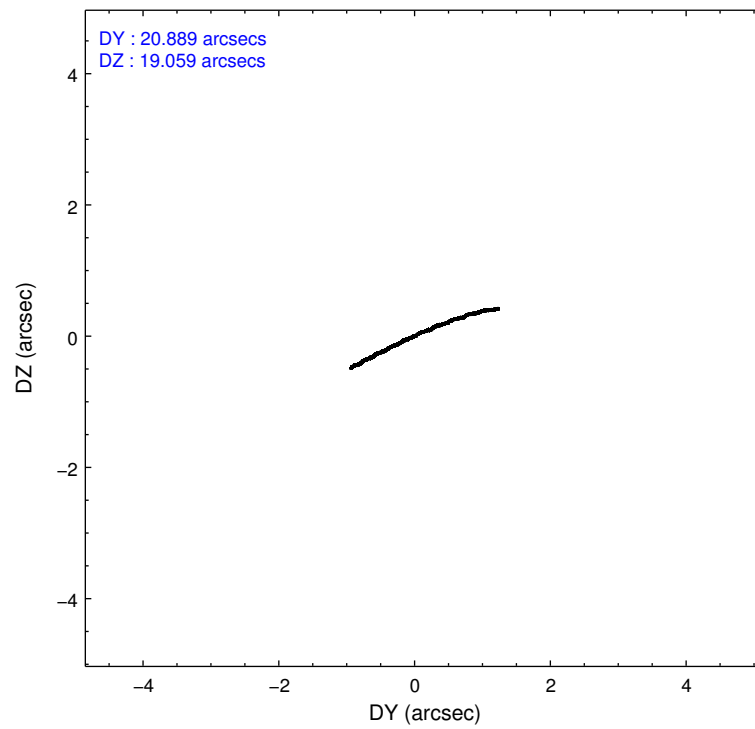
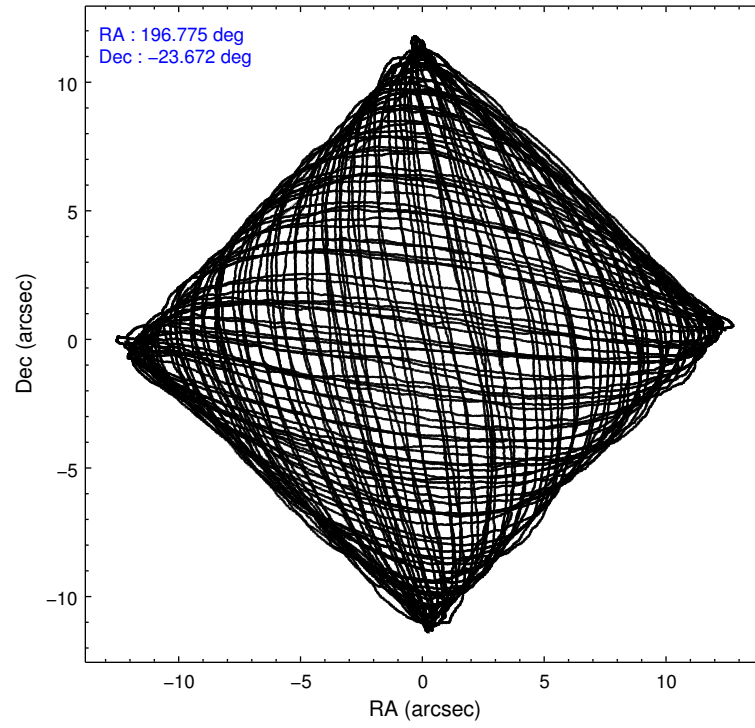
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	454327	274089	333306	330118
rejected events	212868	228150	191898	243421
rejected %	46%	83%	57%	73%

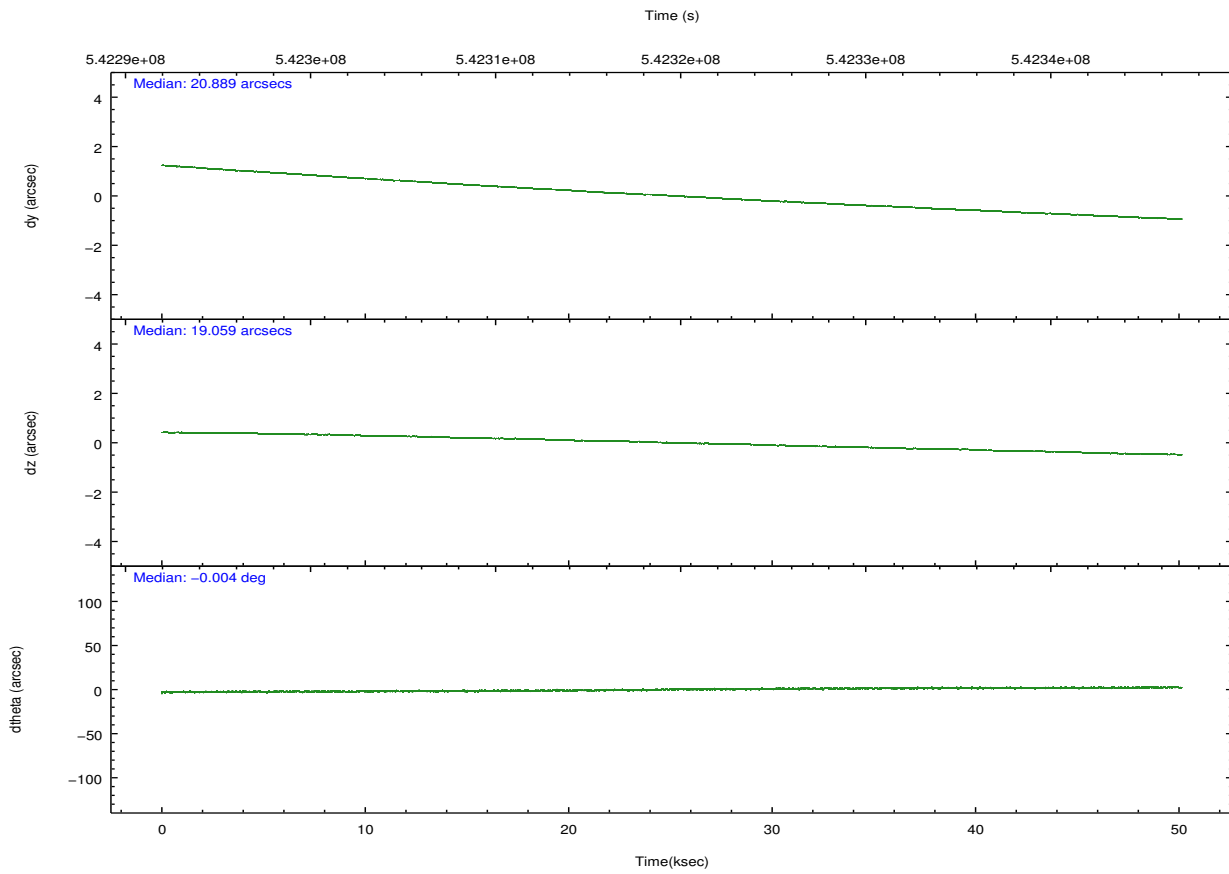
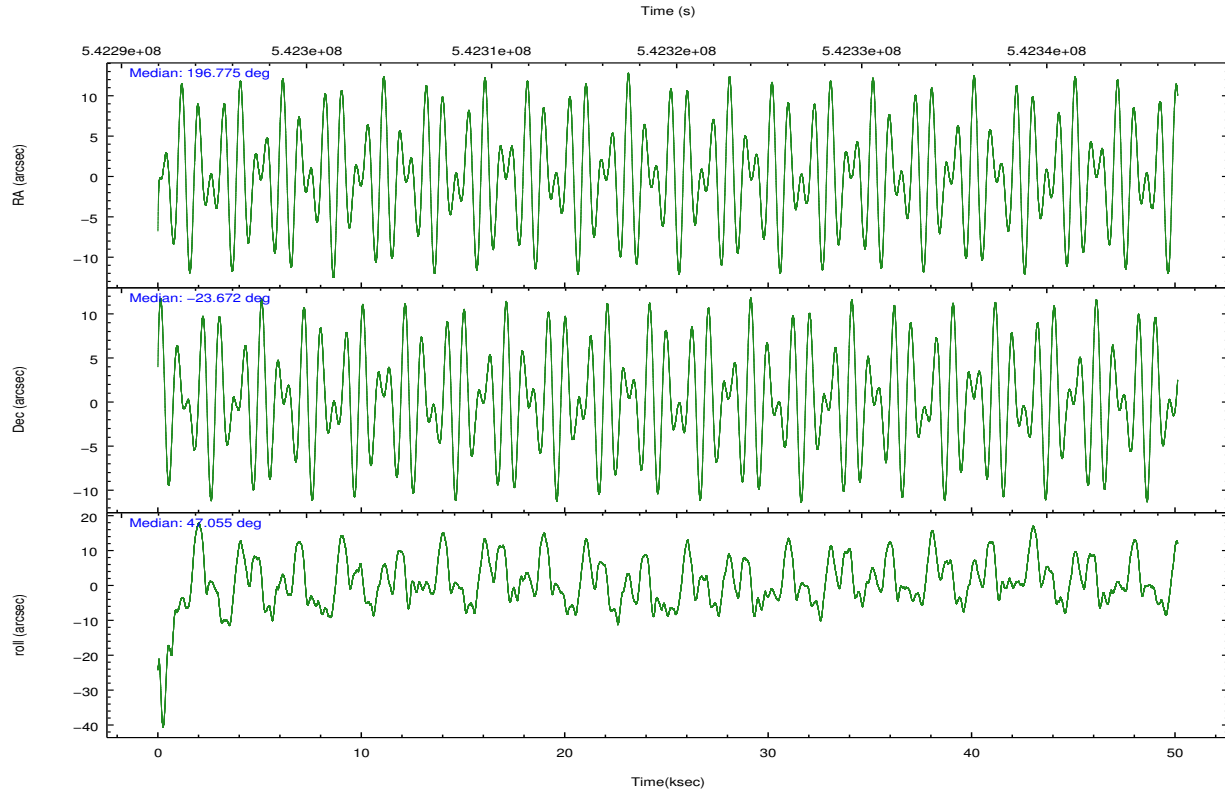
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	56792	25627	11670	24752
	12%	9%	3%	7%
grade 1 events	1975	141	389	260
	0%	0%	0%	0%
grade 2 events	66216	6946	29426	20096
	14%	2%	8%	6%
grade 3 events	5858	2912	10985	9609
	1%	1%	3%	2%
grade 4 events	5685	2879	10651	9177
	1%	1%	3%	2%
grade 5 events	26677	12235	32023	18283
	5%	4%	9%	5%
grade 6 events	106959	7585	78698	23072
	23%	2%	23%	6%
grade 7 events	184165	215764	159464	224869
	40%	78%	47%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	196.769086	196.7754049892223	Subarray requested	NONE	NONE
[deg] Pointing Dec	-23.698352	-23.67151775740372	Alternating exposures requested	N	N
[deg] Pointing Roll	46.906928	47.06609443549421	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	542294596.184000	542293396.128			
Observation start date	2015-03-09T13:22:09	2015-03-09T13:03:16			
[s] Observation end time (MET)	542344596.184000	542344814.74338			
Observation end date	2015-03-10T03:15:29	2015-03-10T03:20:14			
Read mode	TIMED	TIMED			

2.3 Aspect





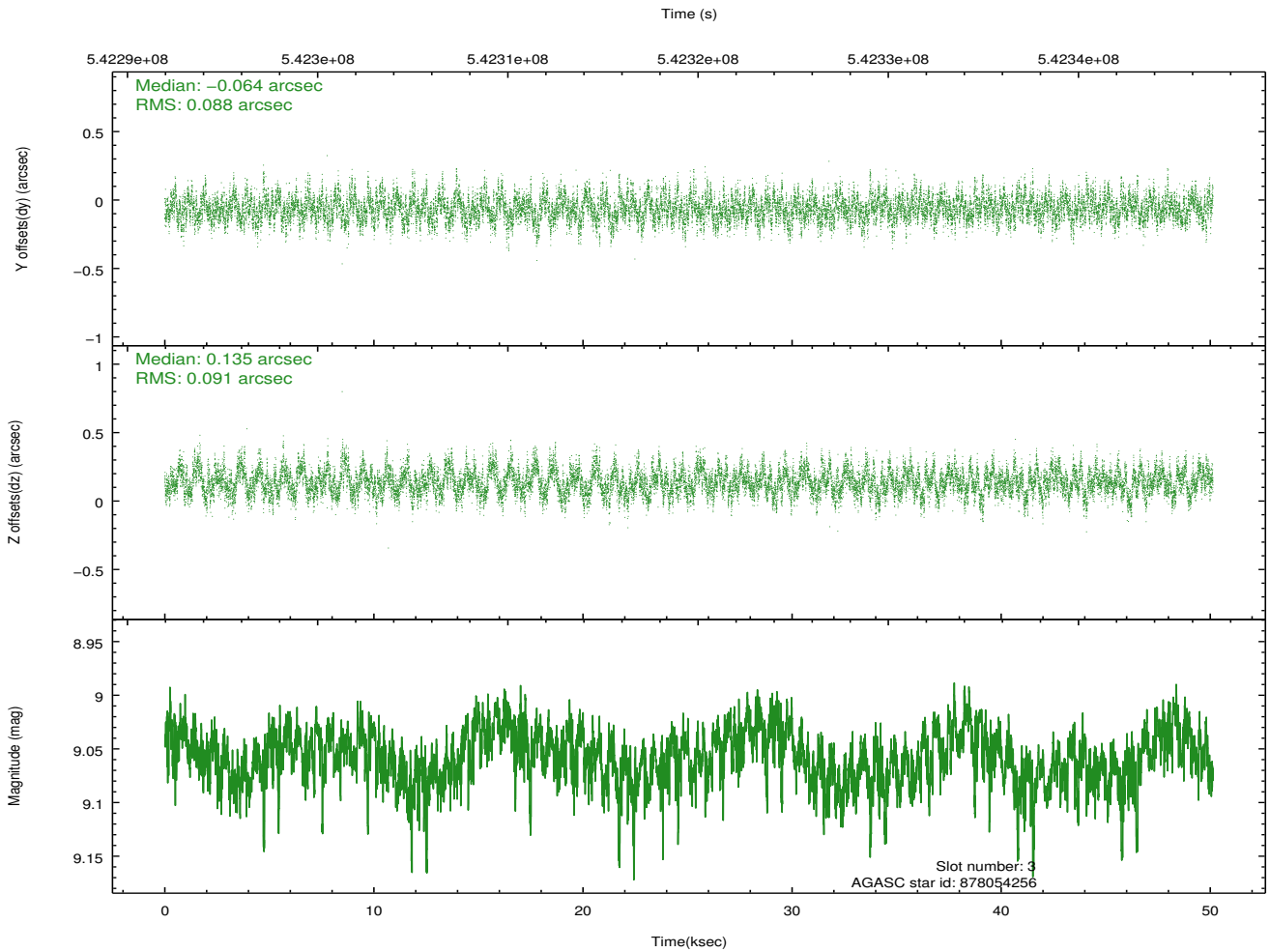
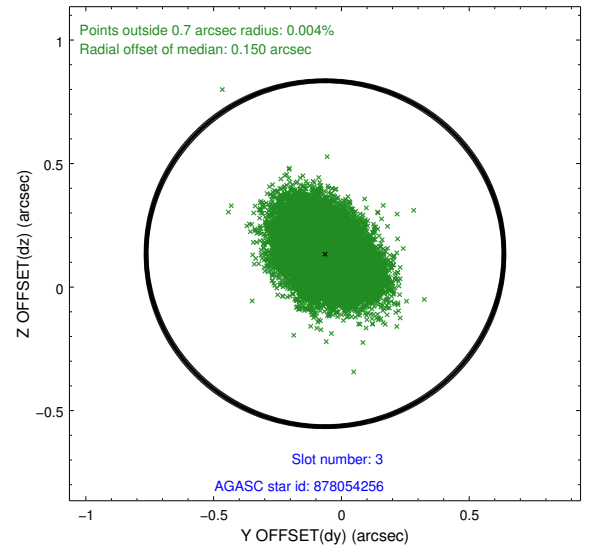
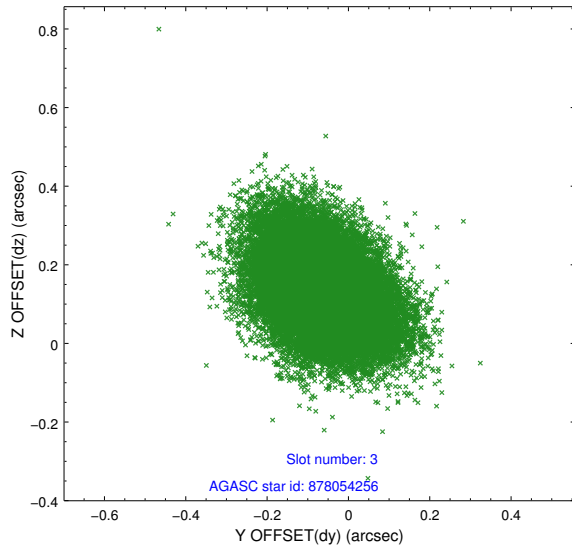
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	12227	-0.163	-0.110	0.013	0.020	0.000000	0.000000	-774.24	-1740.65
1	FID		ACIS-S-4	7.20	12227	0.392	0.108	0.011	0.016	0.000000	0.000000	2139.61	168.06
2	FID		ACIS-S-5	7.21	12227	-0.260	0.010	0.014	0.021	0.000000	0.000000	-1827.20	161.63
3	GUIDE	used	878054256	9.06	24436	-0.064	0.135	0.134	0.221	197.136417	-23.679353	876.73	-838.72
4	GUIDE	used	878054864	8.19	24442	-0.003	-0.011	0.174	0.304	197.588589	-23.624647	2035.57	-1797.49
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
6	GUIDE	used	878056592	8.76	24440	-0.110	0.161	0.111	0.185	197.586702	-23.861101	1405.89	-2370.05
7	GUIDE	used	877927728	9.67	24059	0.162	-0.276	0.201	0.316	195.960480	-23.522727	-1367.46	2375.35

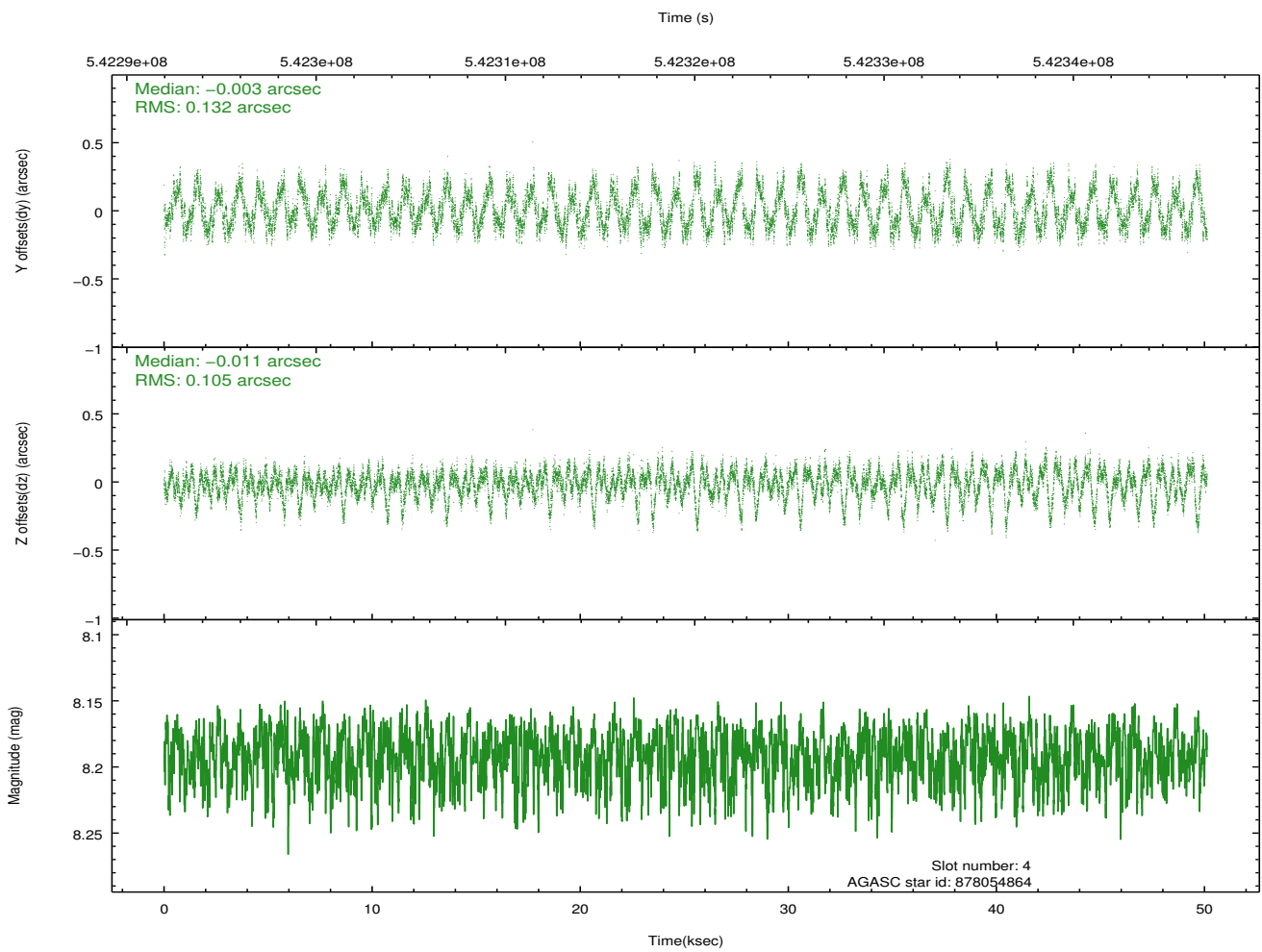
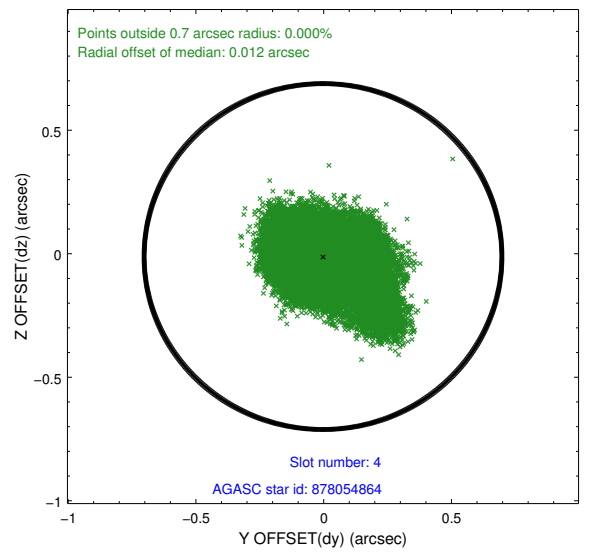
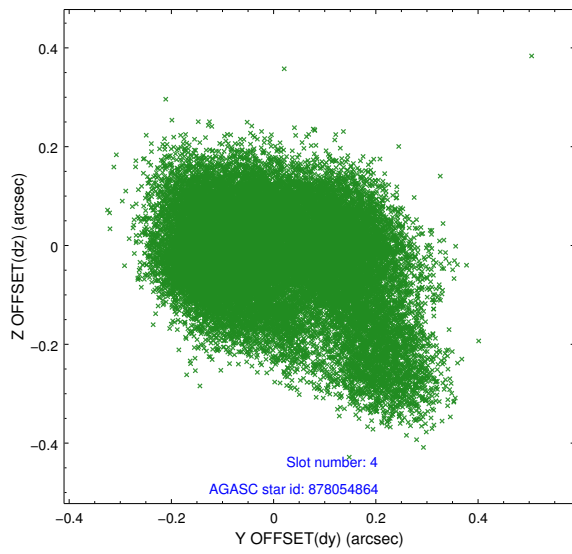
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2.4 Star Slots

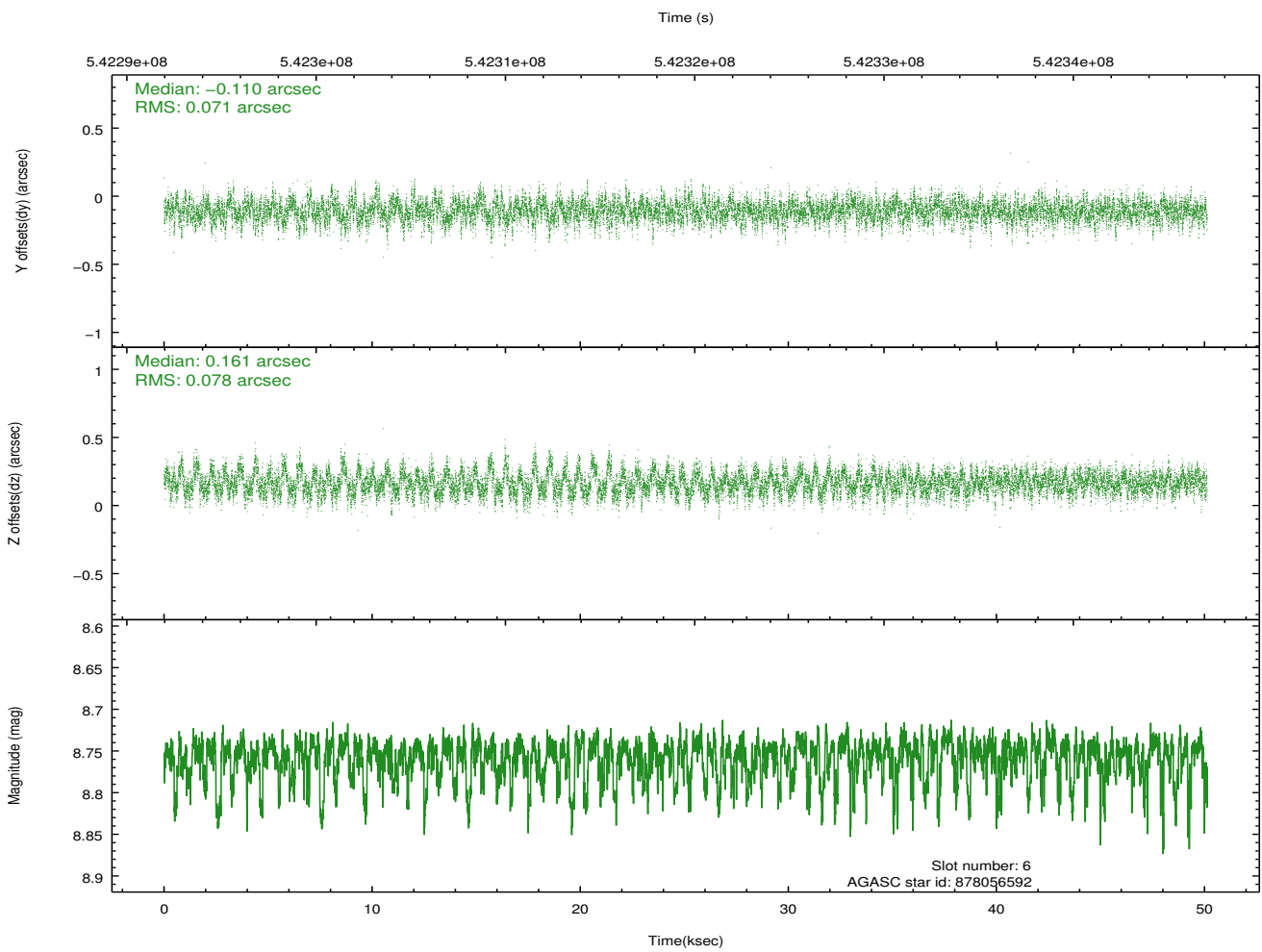
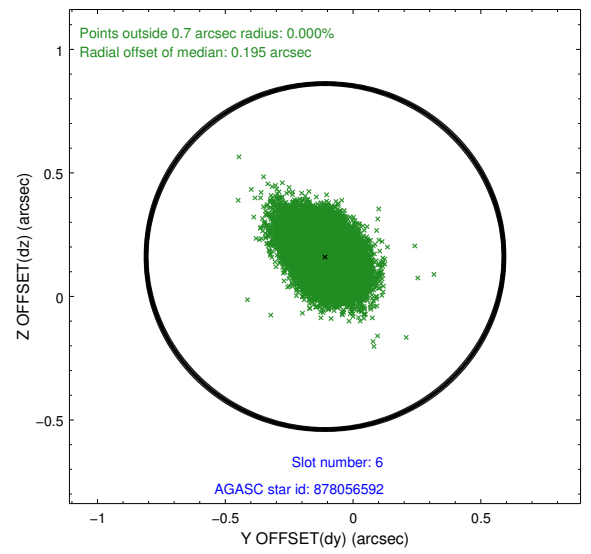
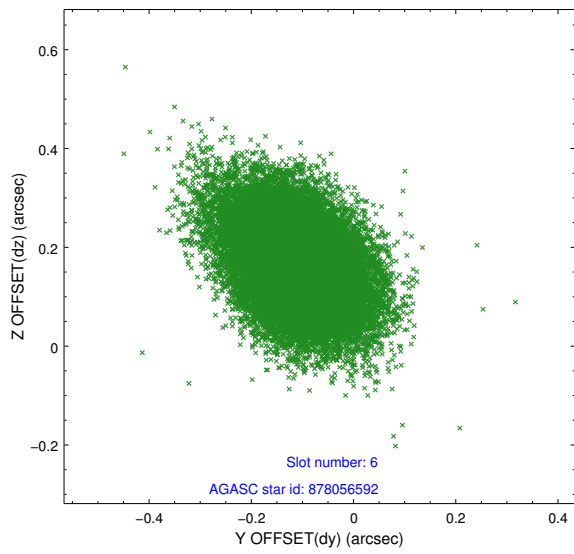
2.4.1 Slot 3



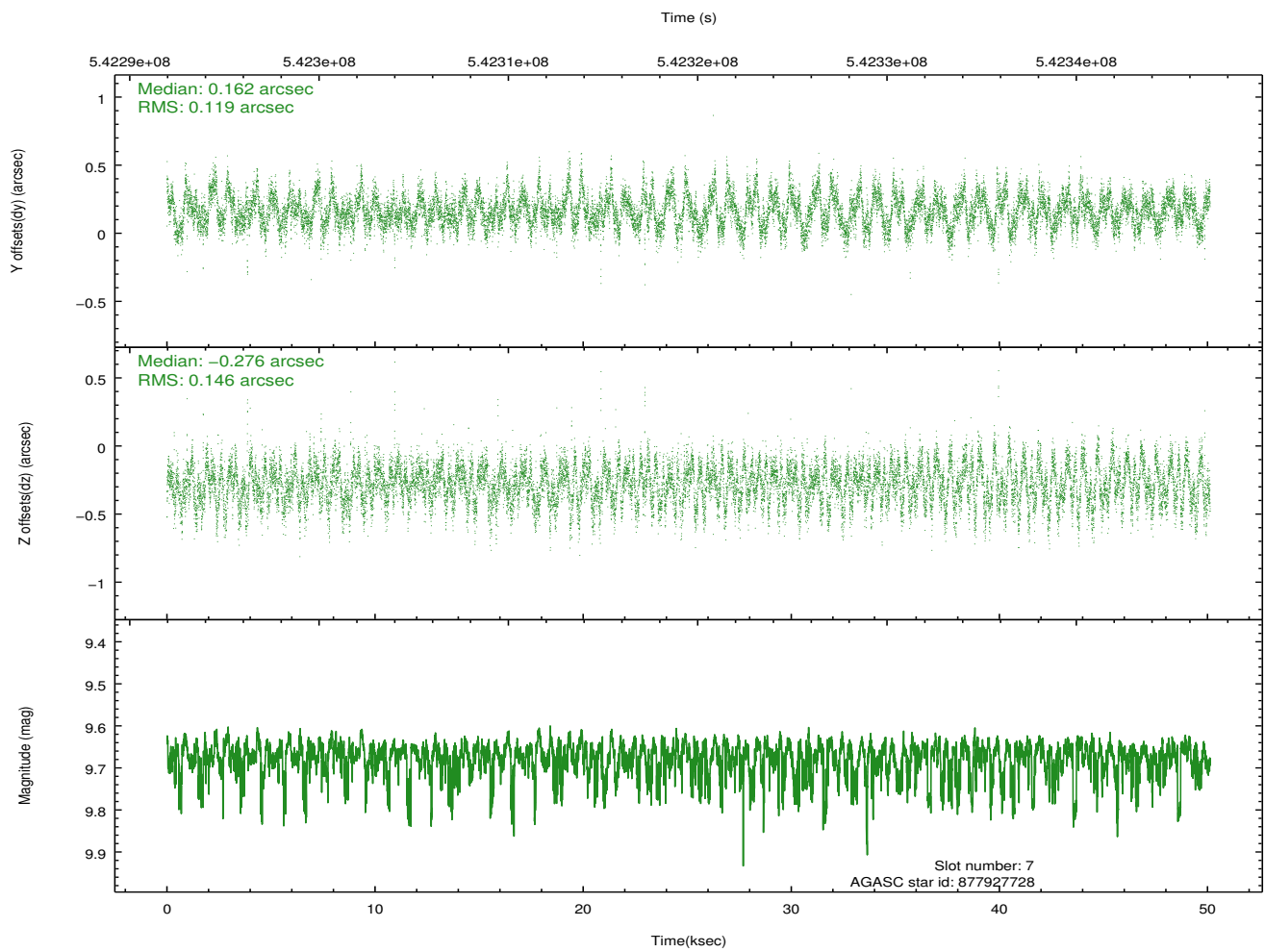
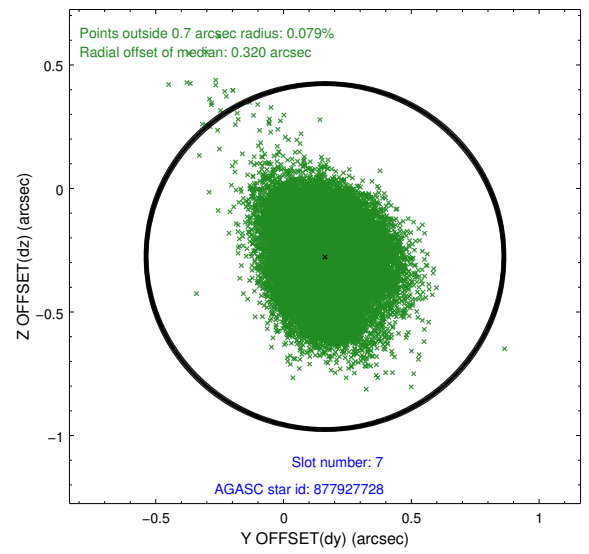
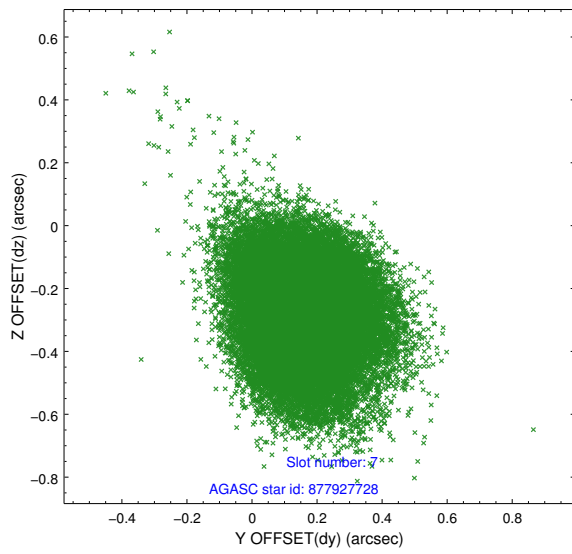
2.4.2 Slot 4



2.4.3 Slot 6

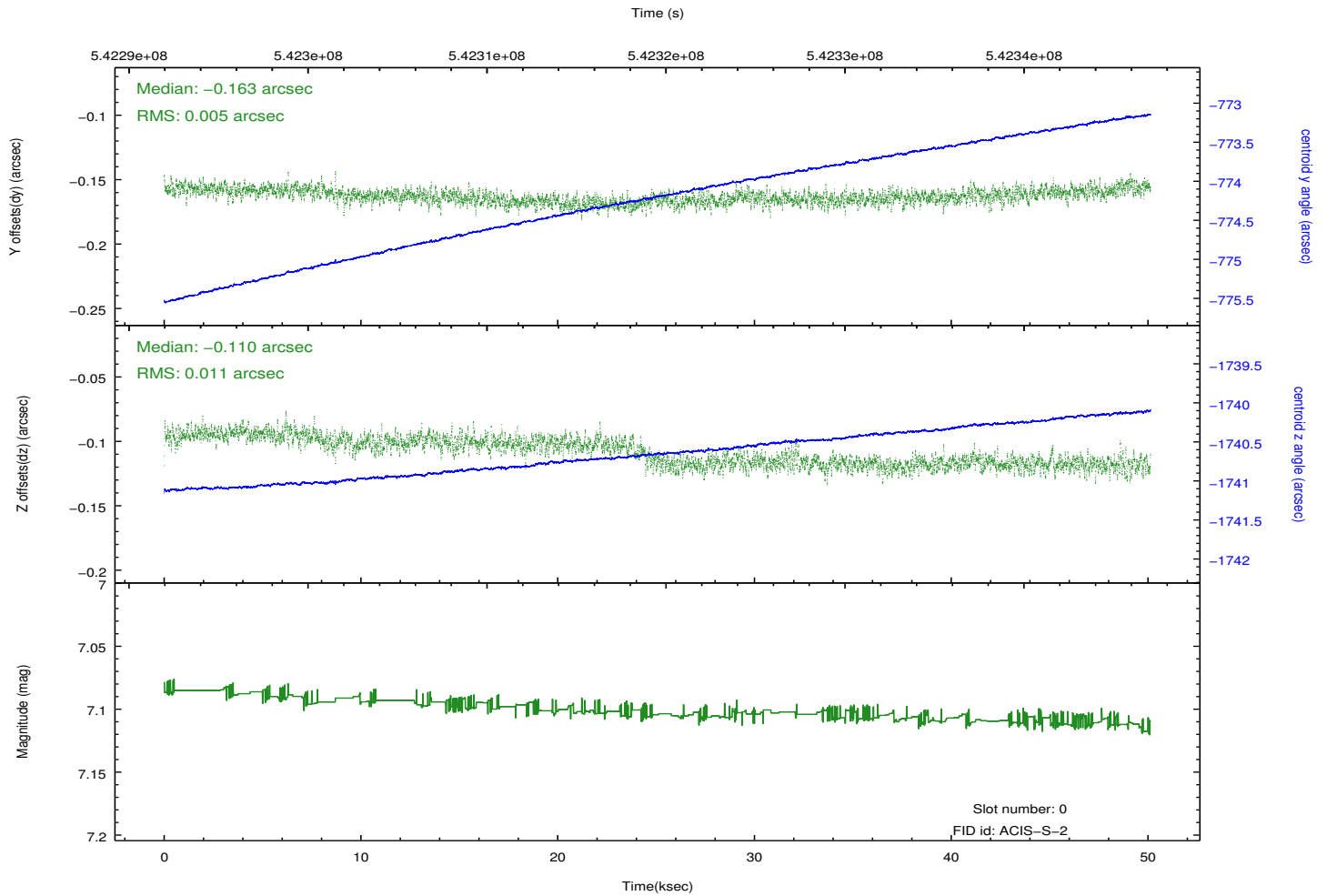
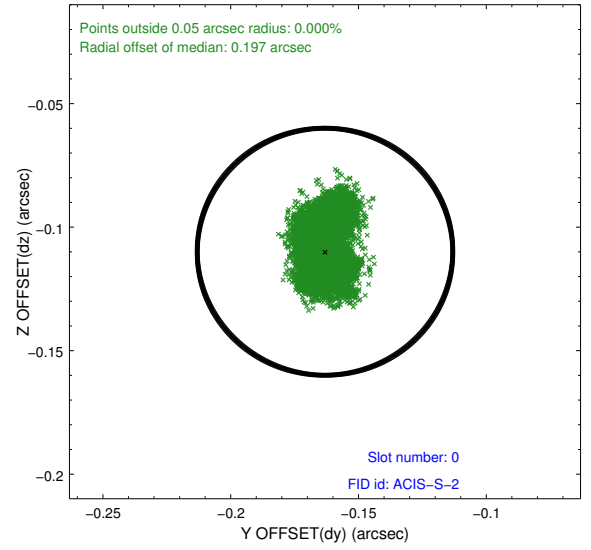
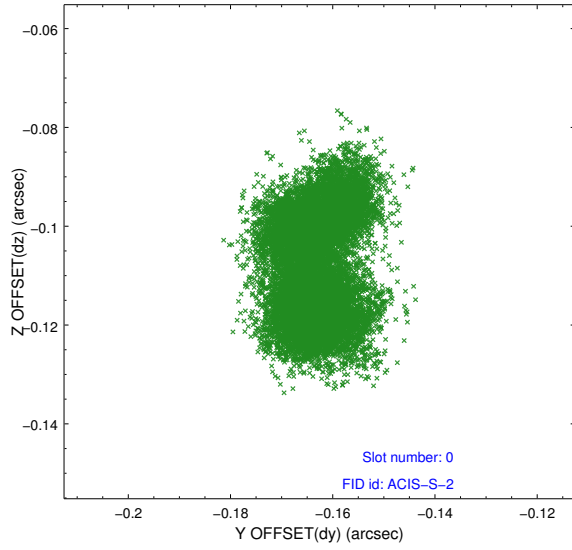


2.4.4 Slot 7

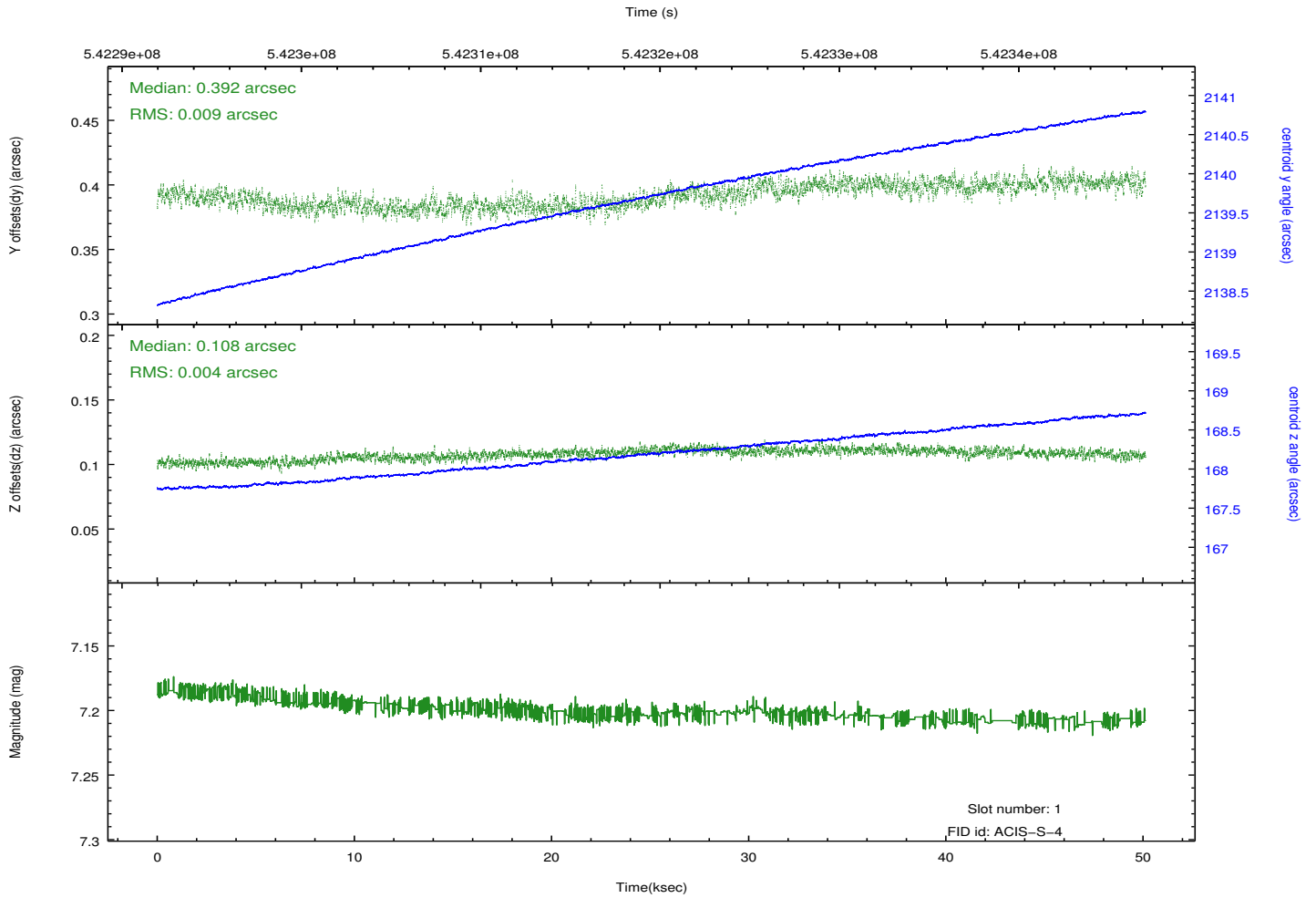
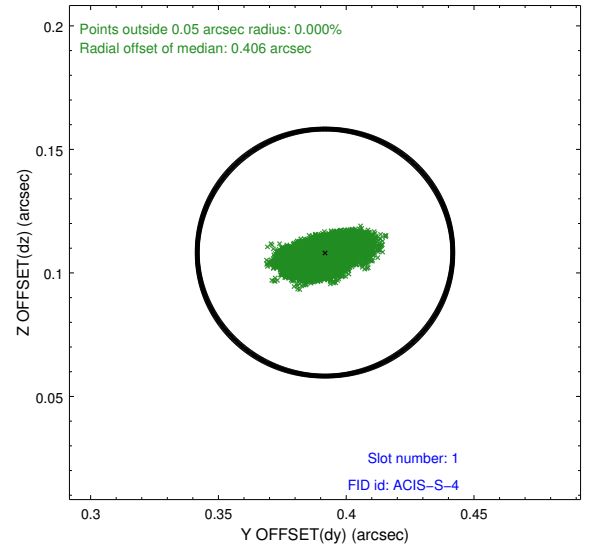
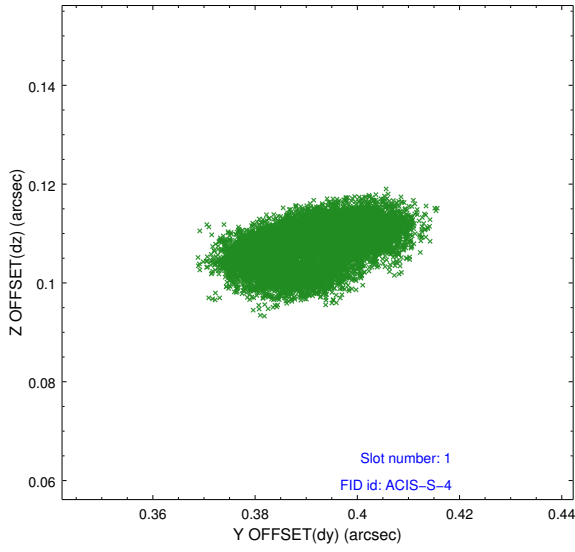


2.5 FID Slots

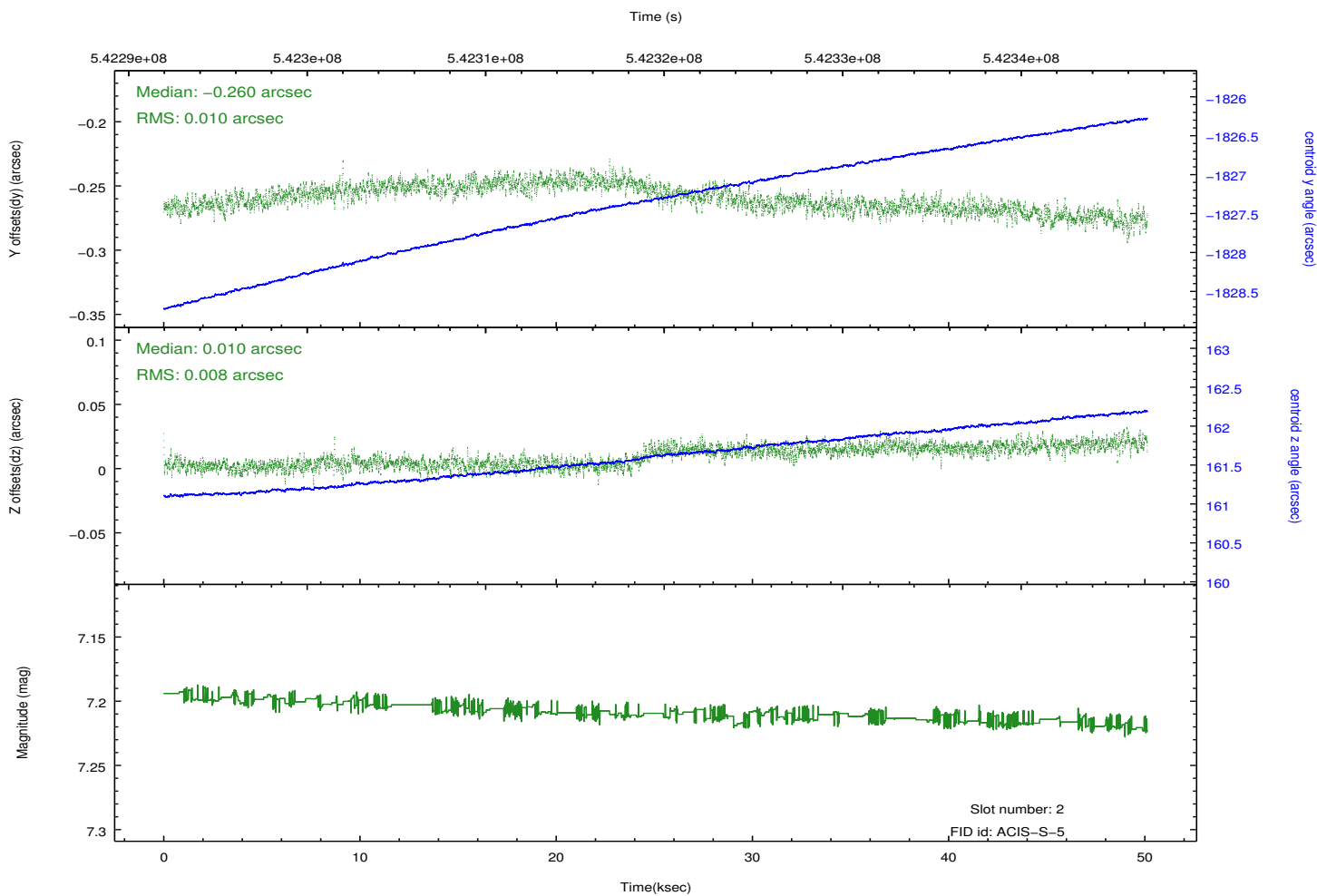
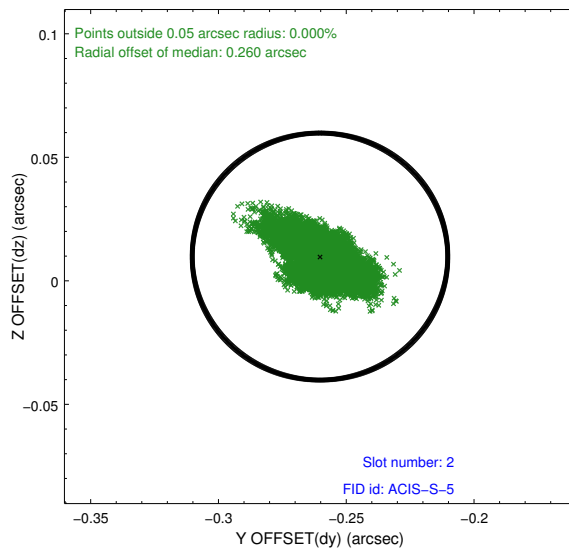
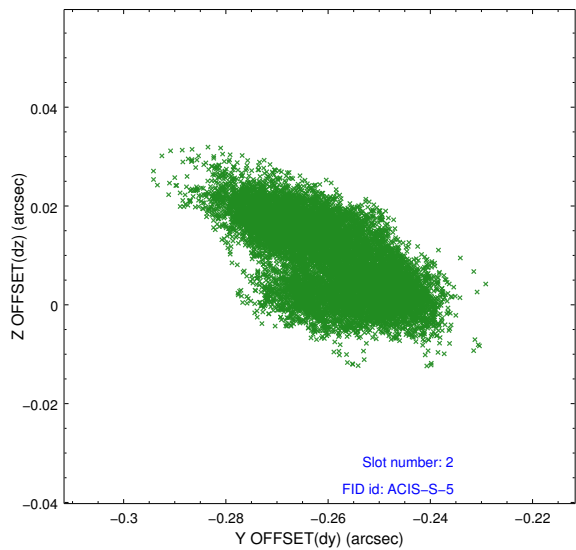
2.5.1 Slot 0



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)	2015.03.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.061900385141

A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.