

V&V Reference Report

L2 ASCDS Version : 10

Observation 14812 - L2 Version 2
Chandra X-Ray Center

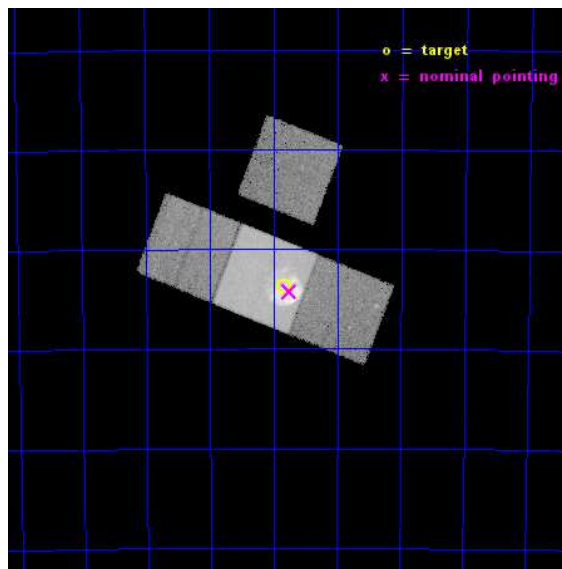
L2 Processing Date : Dec 6 2014

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

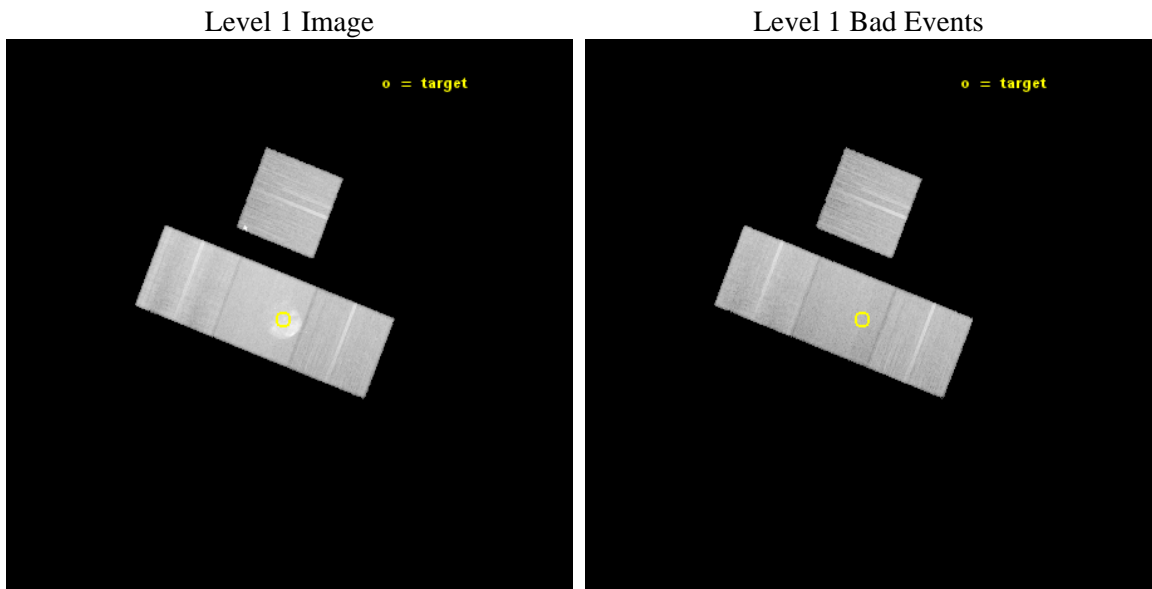
seq_num	501940	Sequence number
obs_id	14812	Observation id
title	Chandra Imaging of a New, Young, Stratified SNR	Proposal title
observer	Dr. Jon Miller	Principal investigator
object	Swift J132150.9-633350	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	200.462083	Observer's specified target RA [deg]
dec_targ	-63.563889	Observer's specified target Dec [deg]
ra_nom	200.43811370549	Nominal RA [deg]
dec_nom	-63.570770509921	Nominal Dec [deg]
roll_nom	201.38430820292	Nominal Roll [deg]
revision	2	Processing version of data
ontime	47789.600367546	Sum of GTIs [s]
livetime	47165.194056552	Livetime [s]
ontime3	47780.177426577	Sum of GTIs [s]
ontime6	47786.459397137	Sum of GTIs [s]
ontime7	47789.600367546	Sum of GTIs [s]
ontime8	47786.459407151	Sum of GTIs [s]
l2events	290017	Number of level 2 events



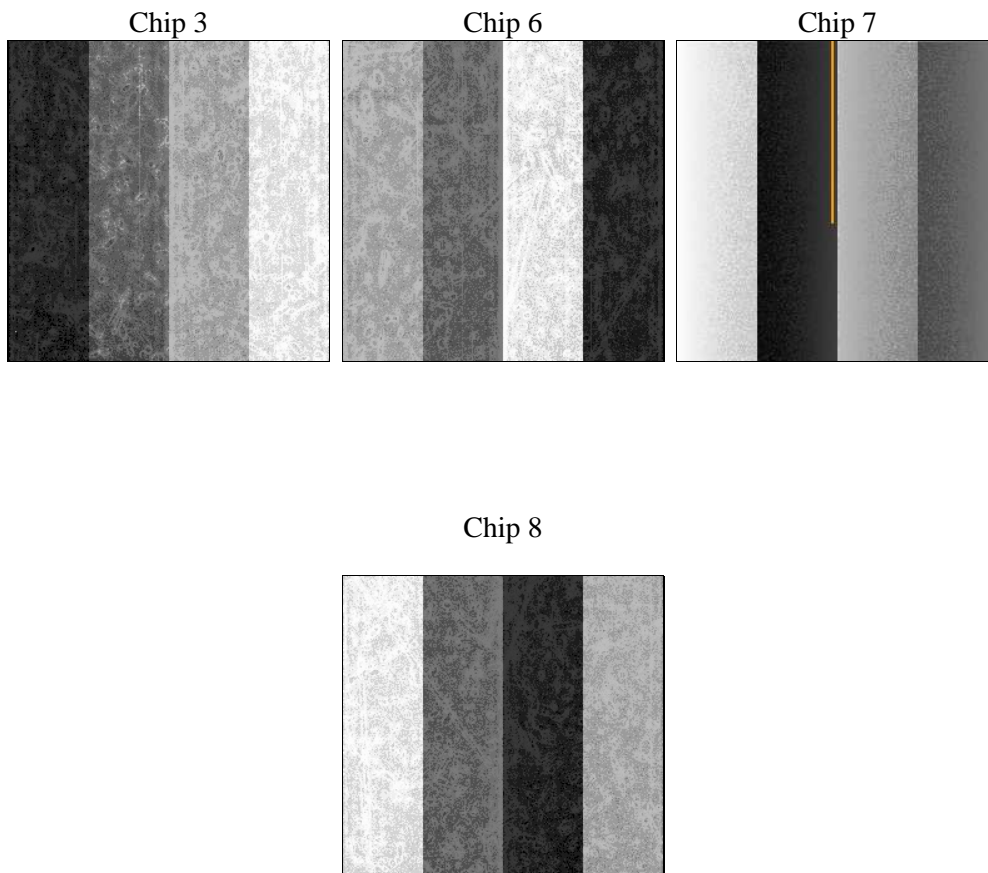
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47716.534000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	47789.600367546	Sum of GTIs [s]
caldbver	4.6.4	 	ontime3	47780.177426577	Sum of GTIs [s]
date	2014-12-06T22:39:57	Date and time of file creation	ontime6	47786.459397137	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	47789.600367546	Sum of GTIs [s]
			ontime8	47786.459407151	Sum of GTIs [s]
			l1events	1151807	Number of level 1 events

2.1.4 Events

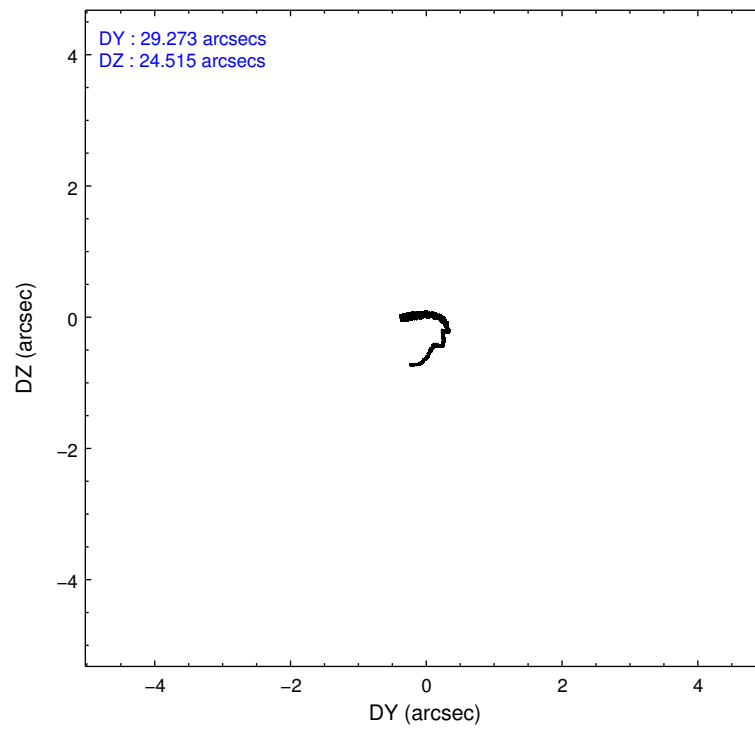
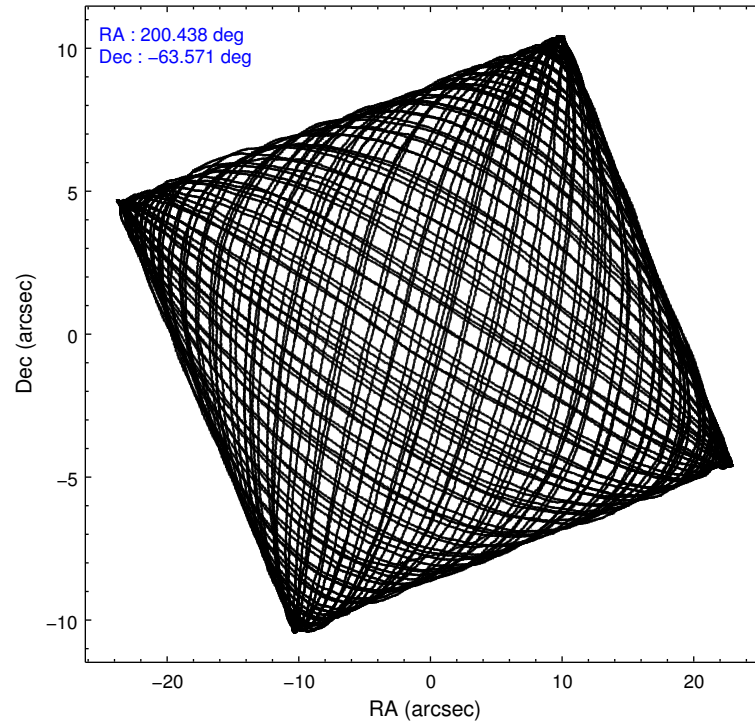
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	225872	237518	379189	309228
rejected events	194204	203985	176256	223404
rejected %	85%	85%	46%	72%

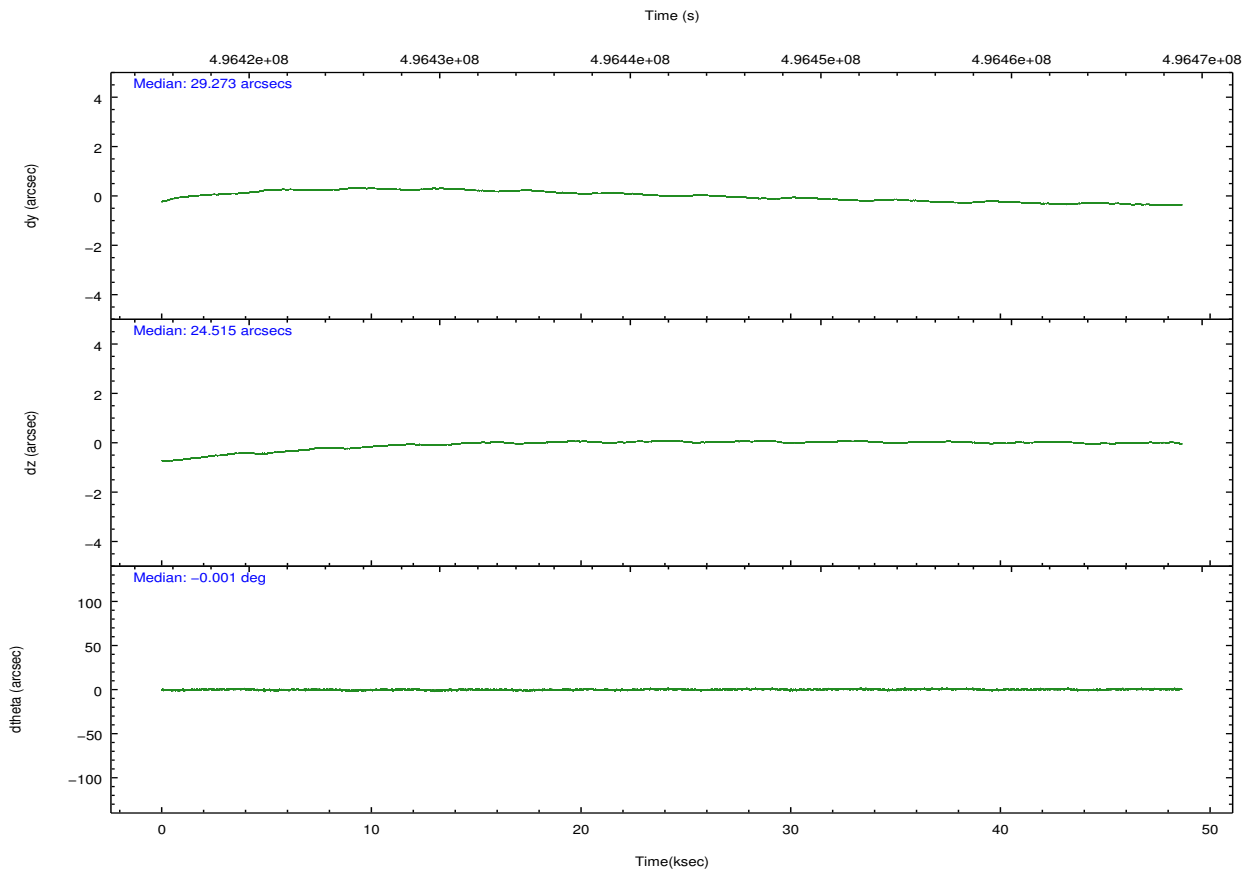
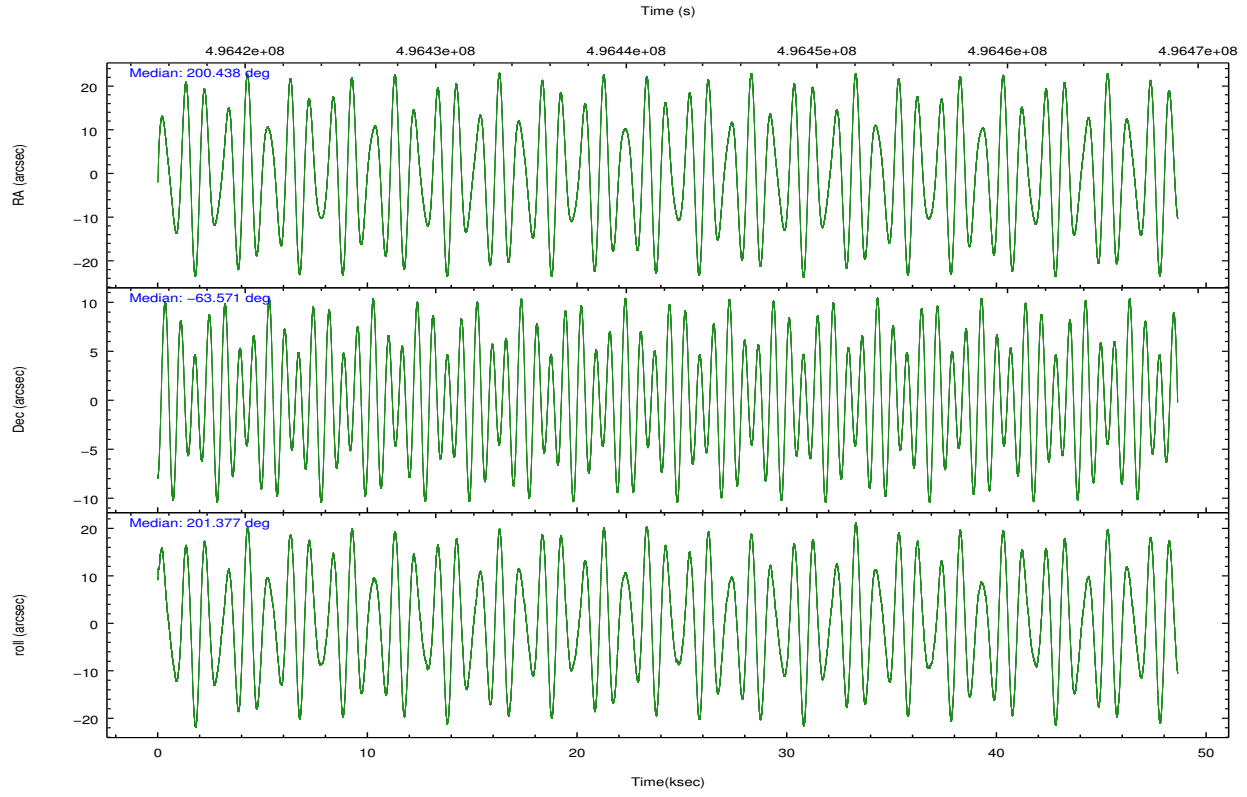
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	14447	13817	29376	27737
	6%	5%	7%	8%
grade 1 events	147	113	383	233
	0%	0%	0%	0%
grade 2 events	6081	6868	46518	19498
	2%	2%	12%	6%
grade 3 events	2752	3060	19468	8357
	1%	1%	5%	2%
grade 4 events	2769	3020	19334	8160
	1%	1%	5%	2%
grade 5 events	12156	12146	32525	17645
	5%	5%	8%	5%
grade 6 events	5624	6773	88269	22085
	2%	2%	23%	7%
grade 7 events	181896	191721	143316	205513
	80%	80%	37%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	200.475727	200.4381137054859	Subarray requested	NONE	NONE
[deg] Pointing Dec	-63.549185	-63.57077050992073	Alternating exposures requested	N	N
[deg] Pointing Roll	201.261357	201.3843082029165	[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)	496418785.184000	496417392.22807			
Observation start date	2013-09-24T14:05:18	2013-09-24T13:43:12			
[s] Observation end time (MET)	496466502.184000	496466727.53079			
Observation end date	2013-09-25T03:20:35	2013-09-25T03:25:27			
Read mode	TIMED	TIMED			

2.3 Aspect





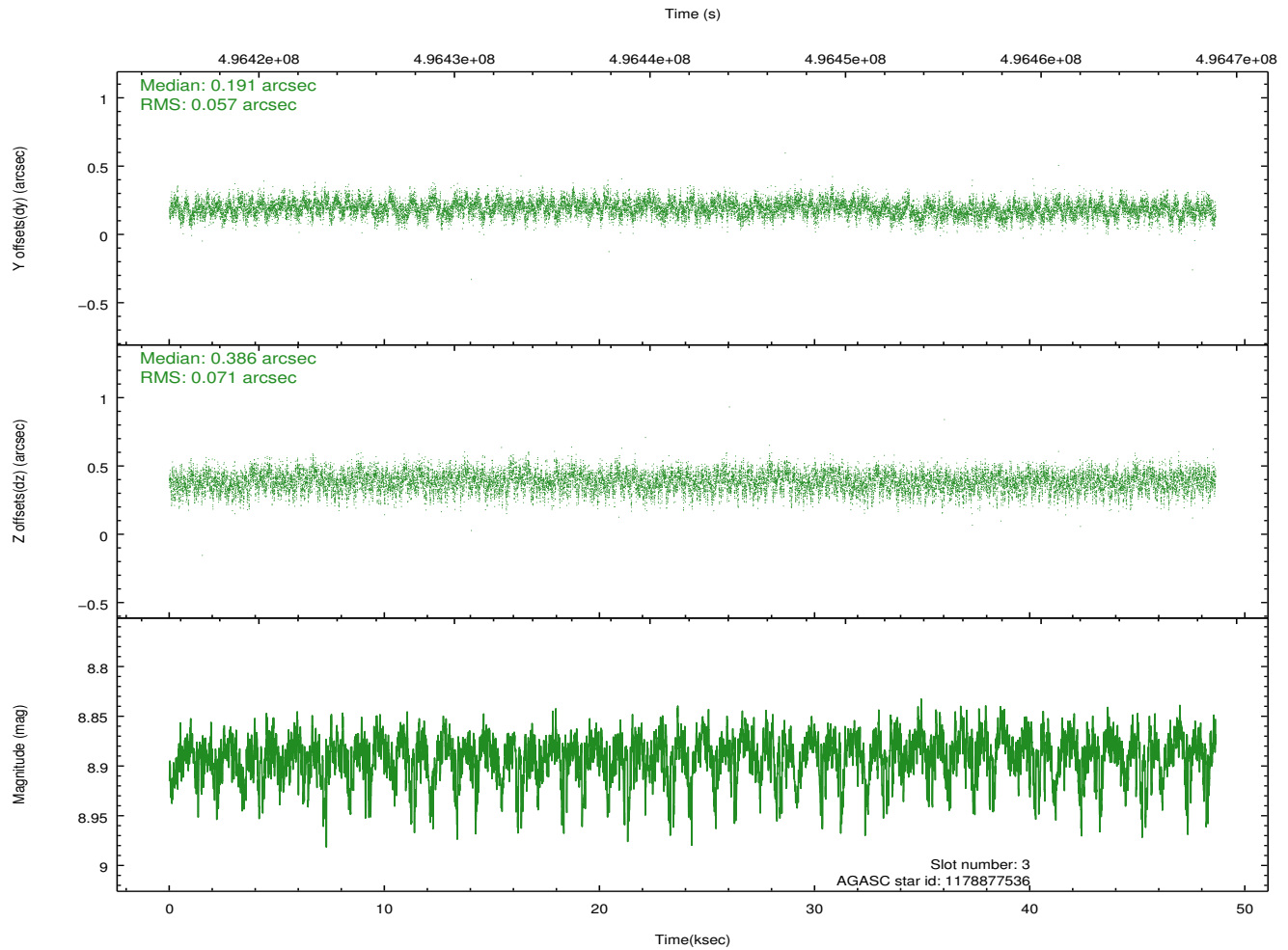
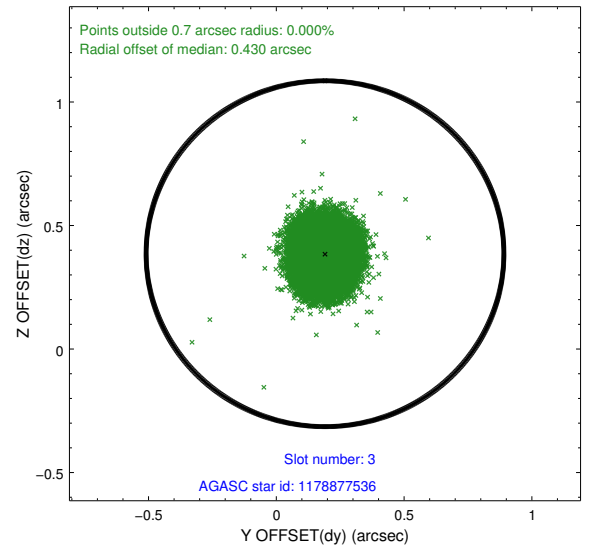
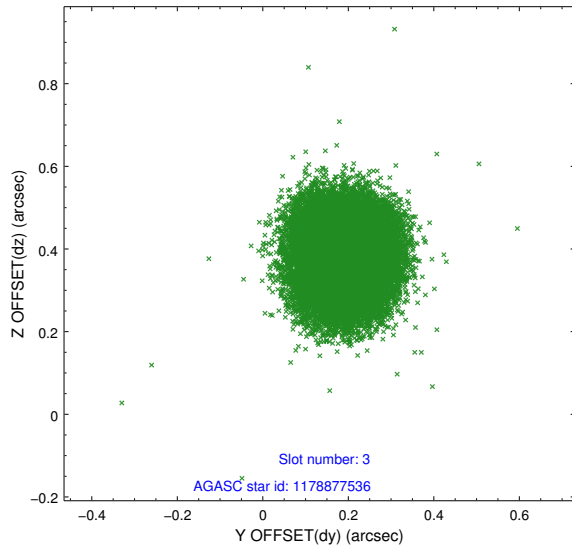
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.94	11863	-0.242	-0.130	0.007	0.012	0.000000	0.000000	-782.94	-1746.16
1	FID		ACIS-S-4	7.02	11861	0.256	0.161	0.009	0.013	0.000000	0.000000	2130.93	162.49
2	FID		ACIS-S-6	7.16	11862	-0.042	-0.025	0.011	0.018	0.000000	0.000000	379.34	799.77
3	GUIDE	used	1178877536	8.89	23539	0.191	0.386	0.097	0.154	201.267945	-63.175844	-1683.14	-778.03
4	GUIDE	used	1178894744	8.34	23659	-0.074	-0.073	0.077	0.124	199.118379	-63.508602	1986.99	-904.53
5	GUIDE	used	1179387912	9.14	23702	-0.094	-0.292	0.227	0.318	201.002477	-64.071984	-88.86	2057.76
6	GUIDE	used	1179522696	7.54	23725	-0.110	0.017	0.092	0.152	202.272572	-63.874033	-2215.69	2160.11
7	GUIDE	used	1178883656	8.95	23626	0.134	-0.030	0.185	0.285	198.806277	-63.113695	1978.11	-2412.92

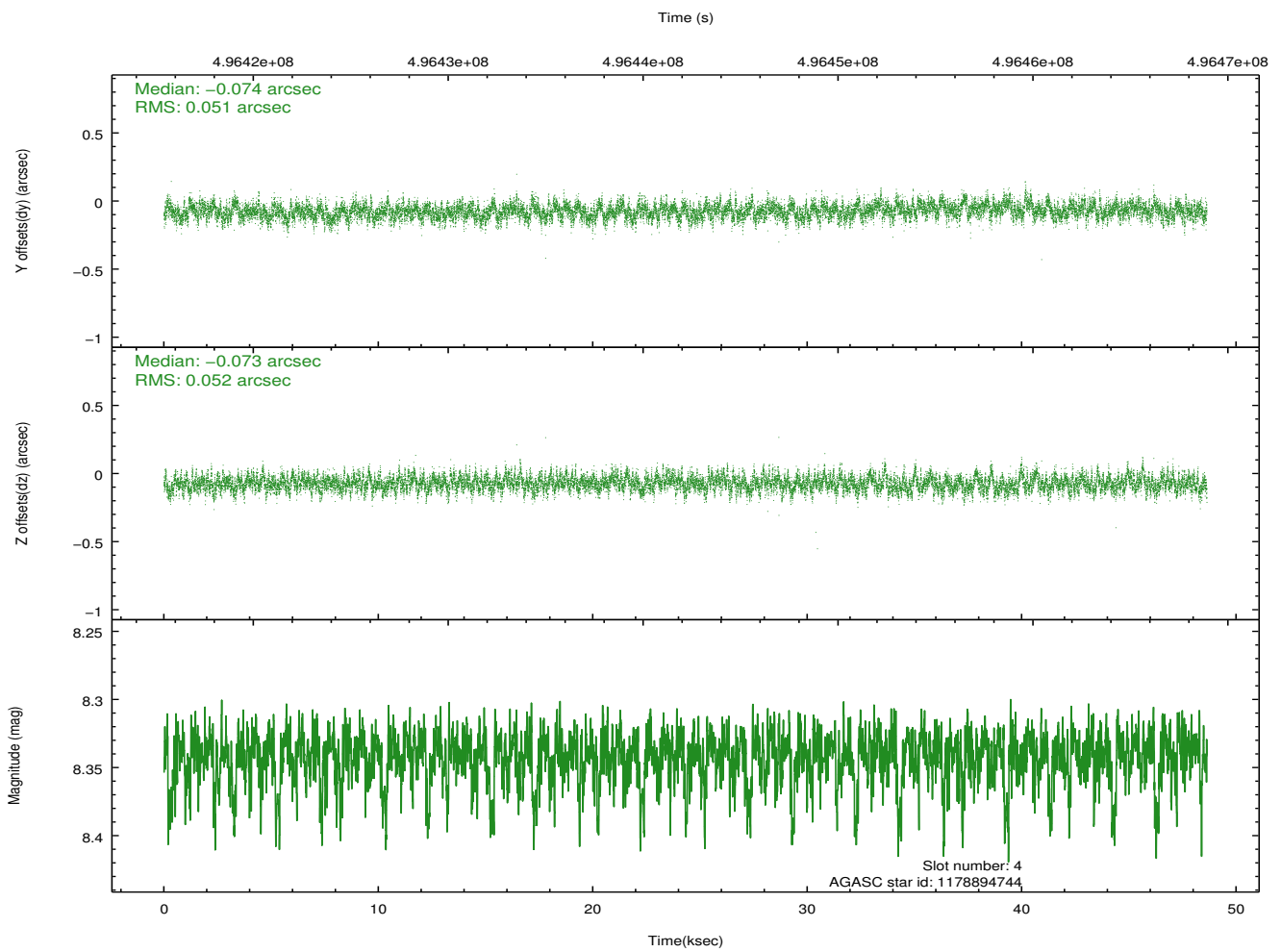
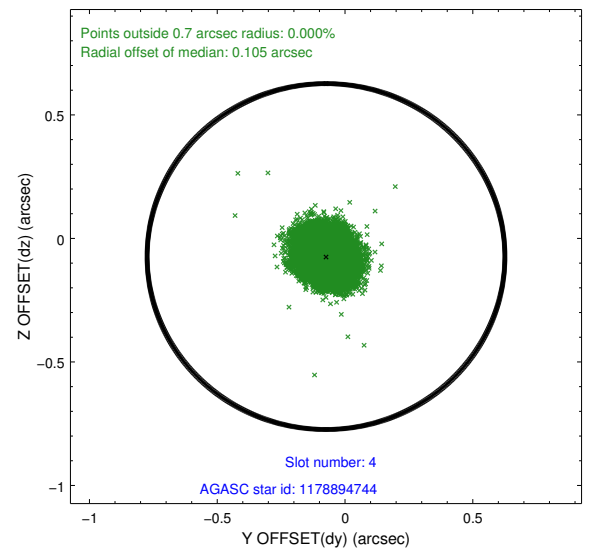
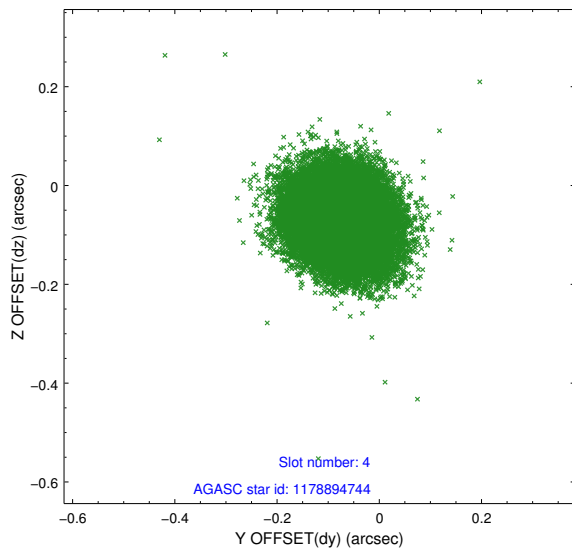
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2.4 Star Slots

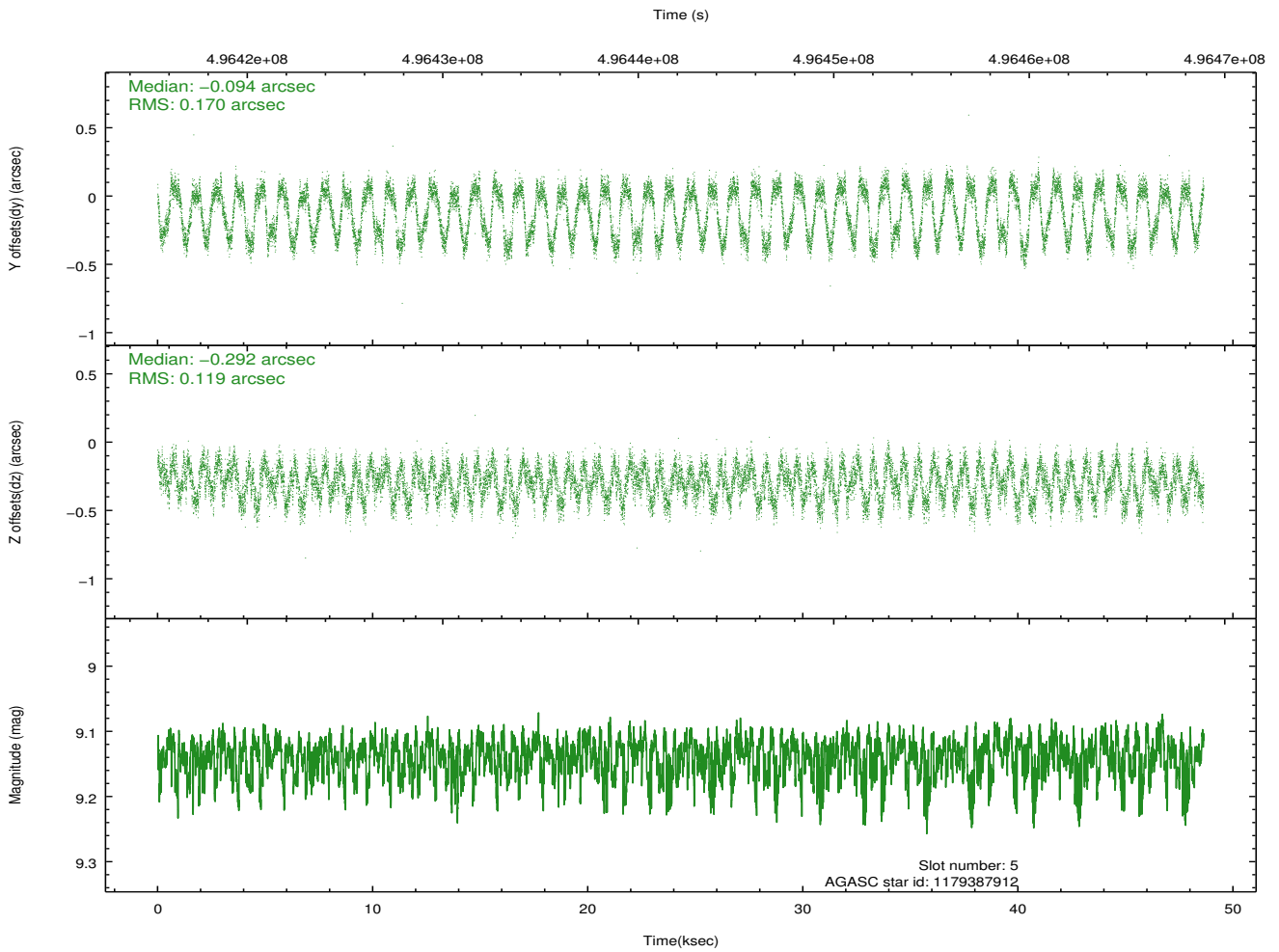
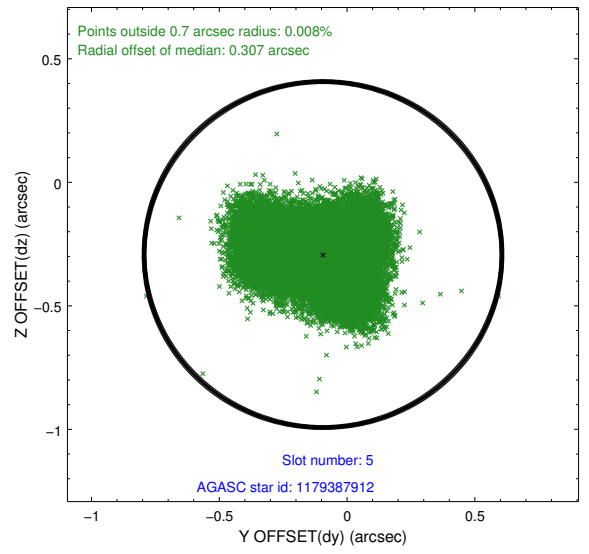
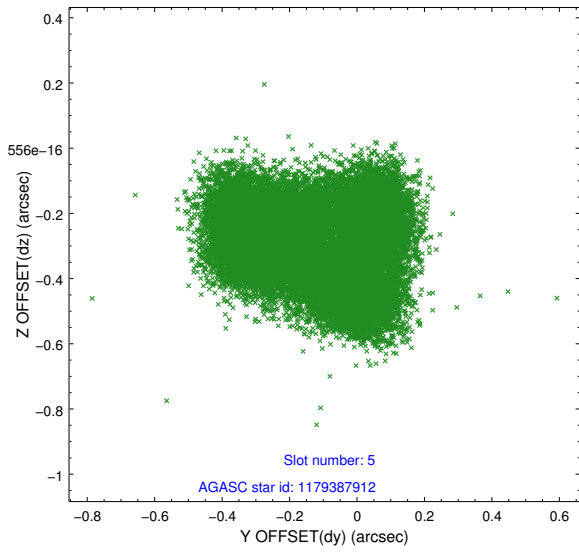
2.4.1 Slot 3



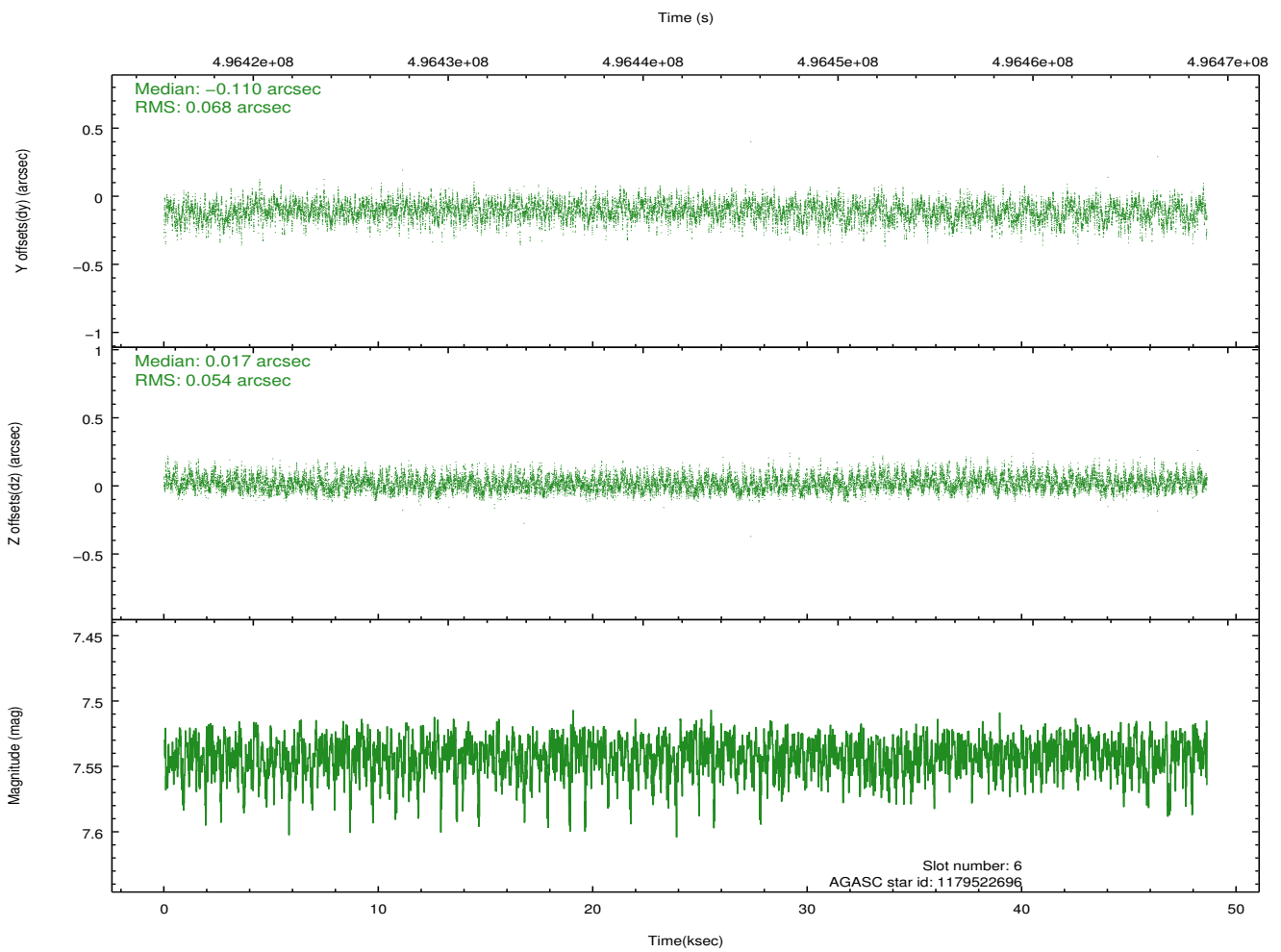
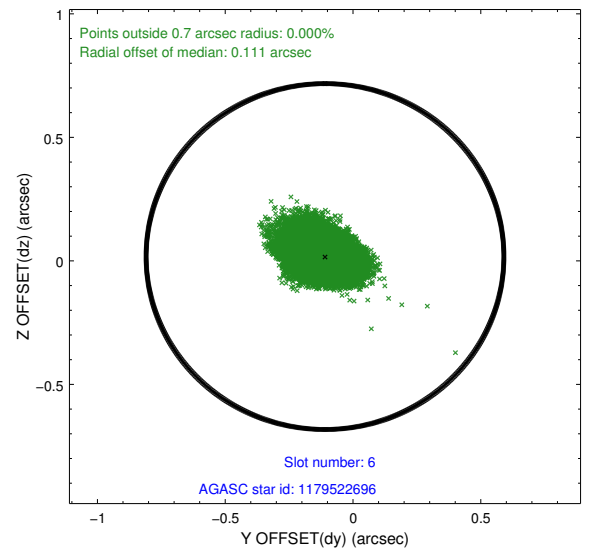
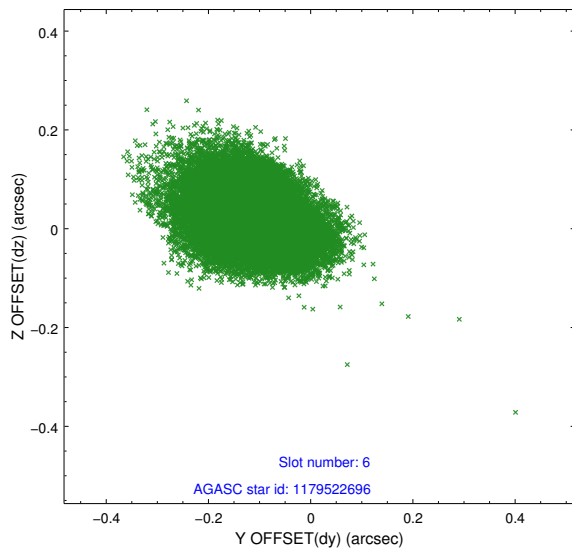
2.4.2 Slot 4



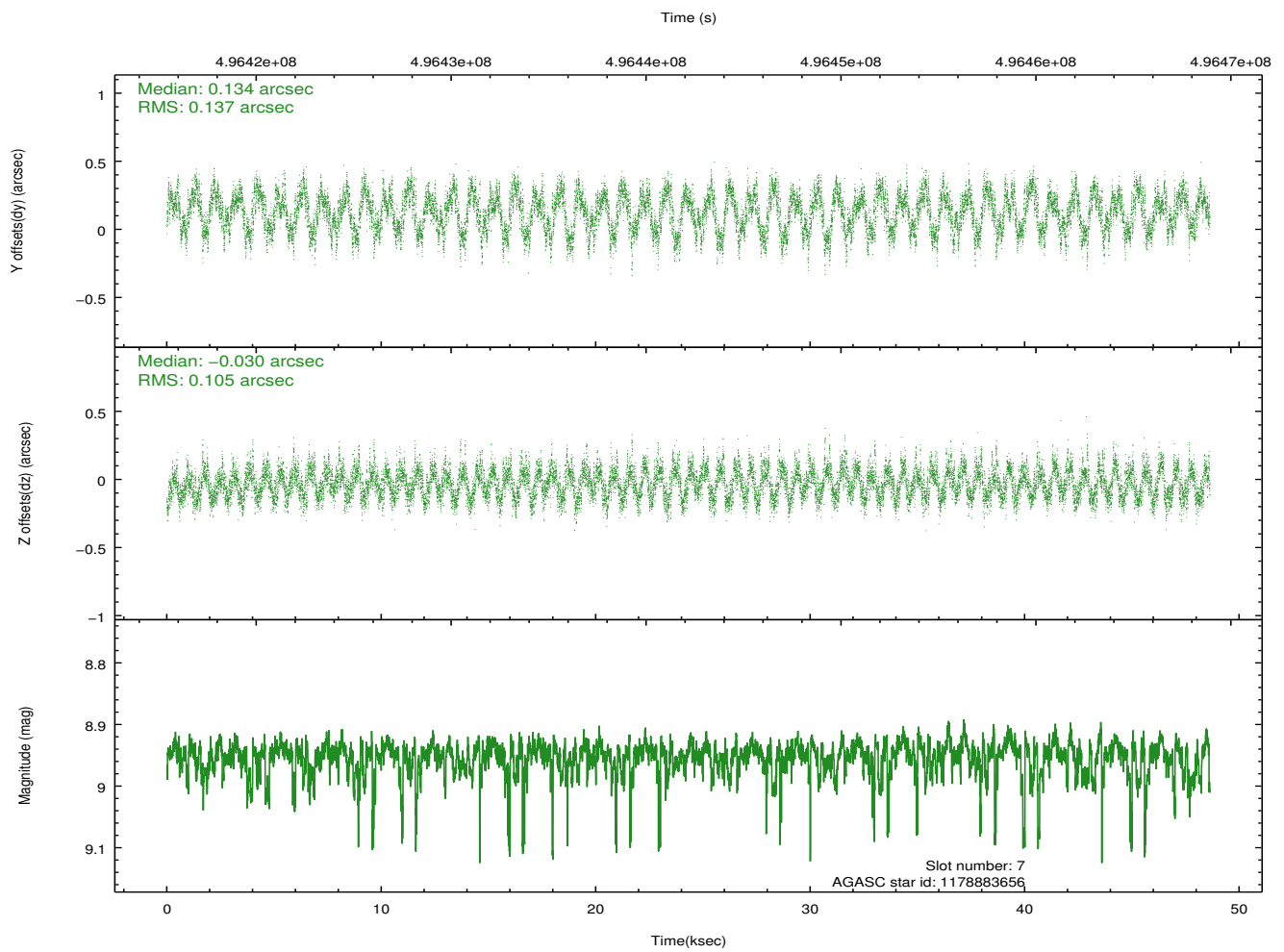
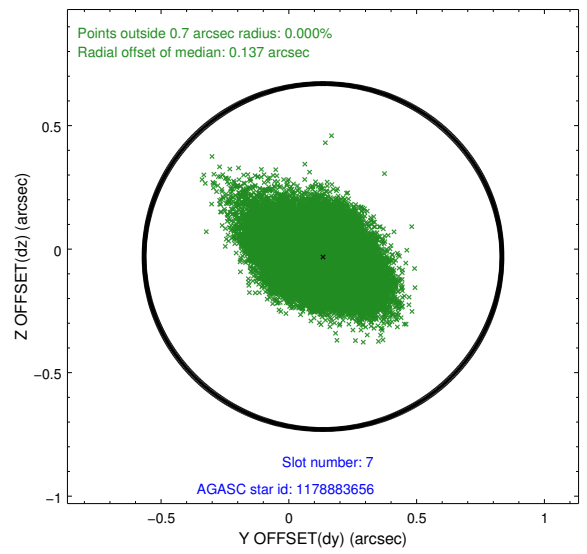
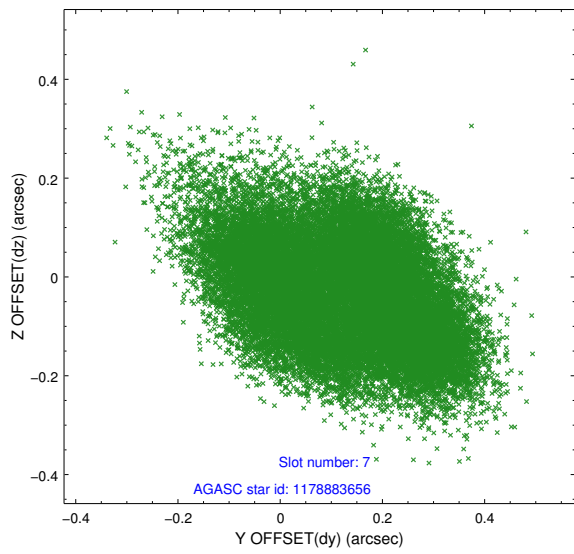
2.4.3 Slot 5



2.4.4 Slot 6

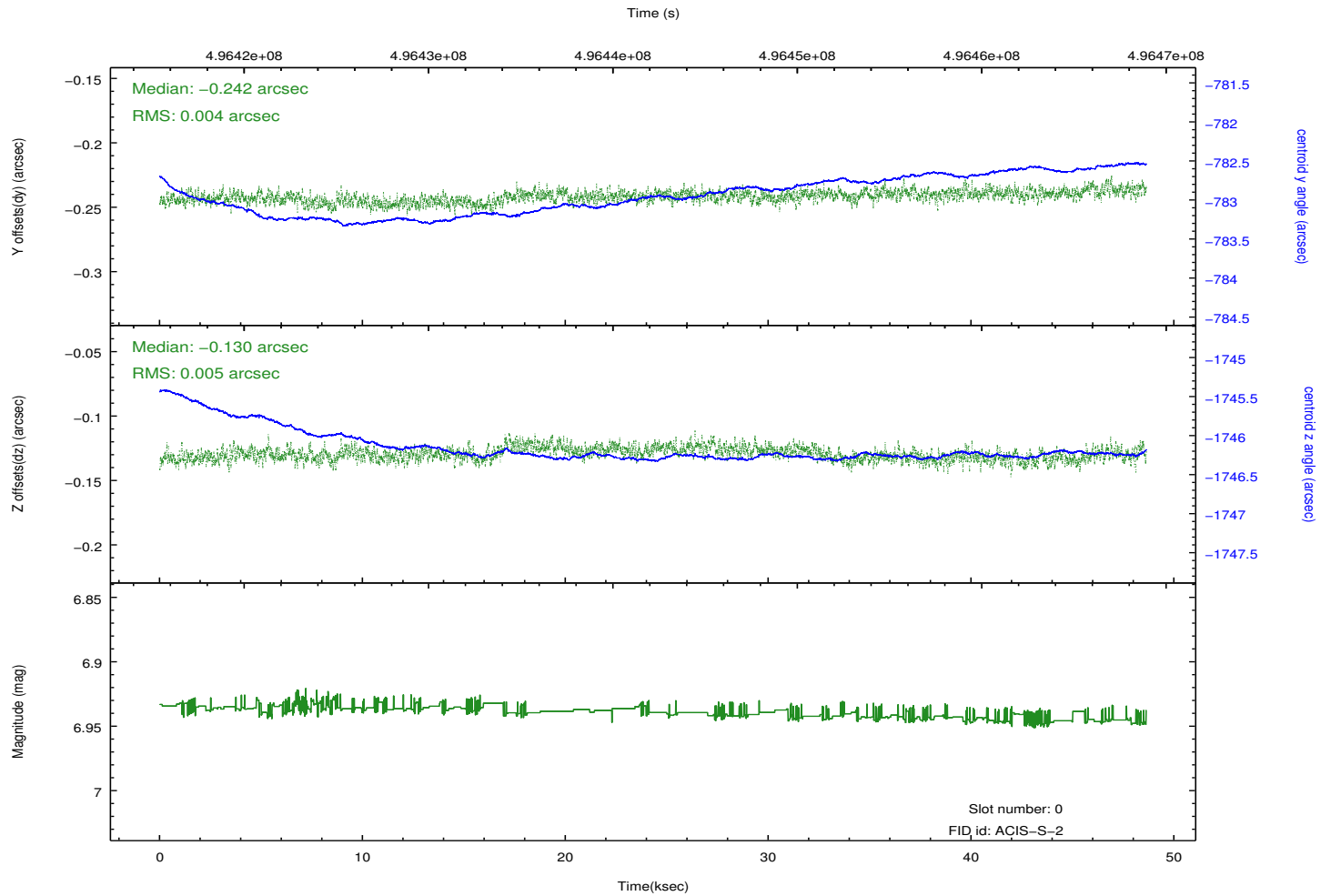
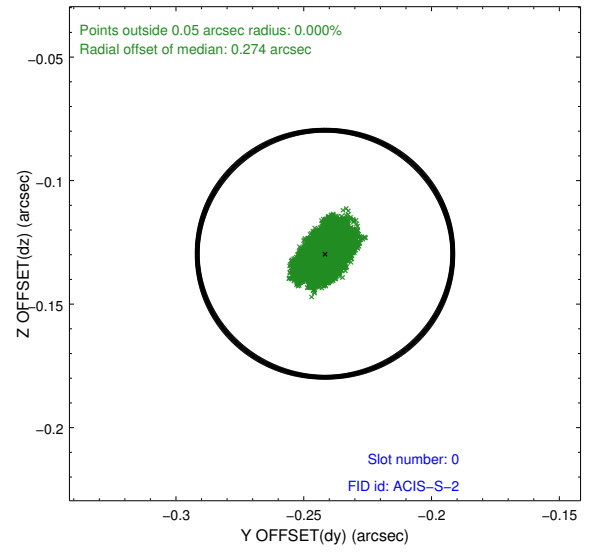
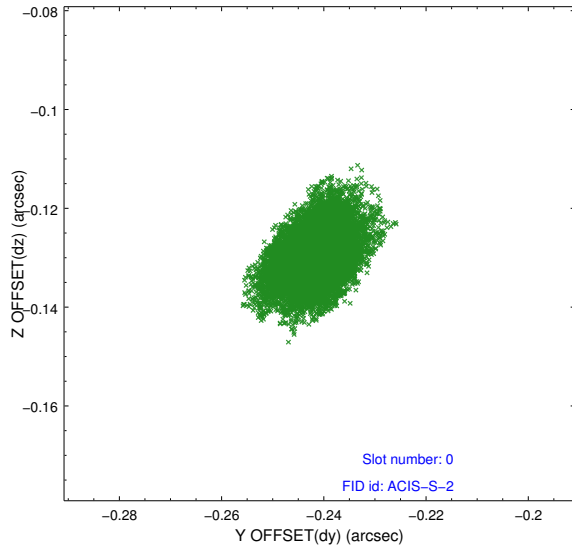


2.4.5 Slot 7

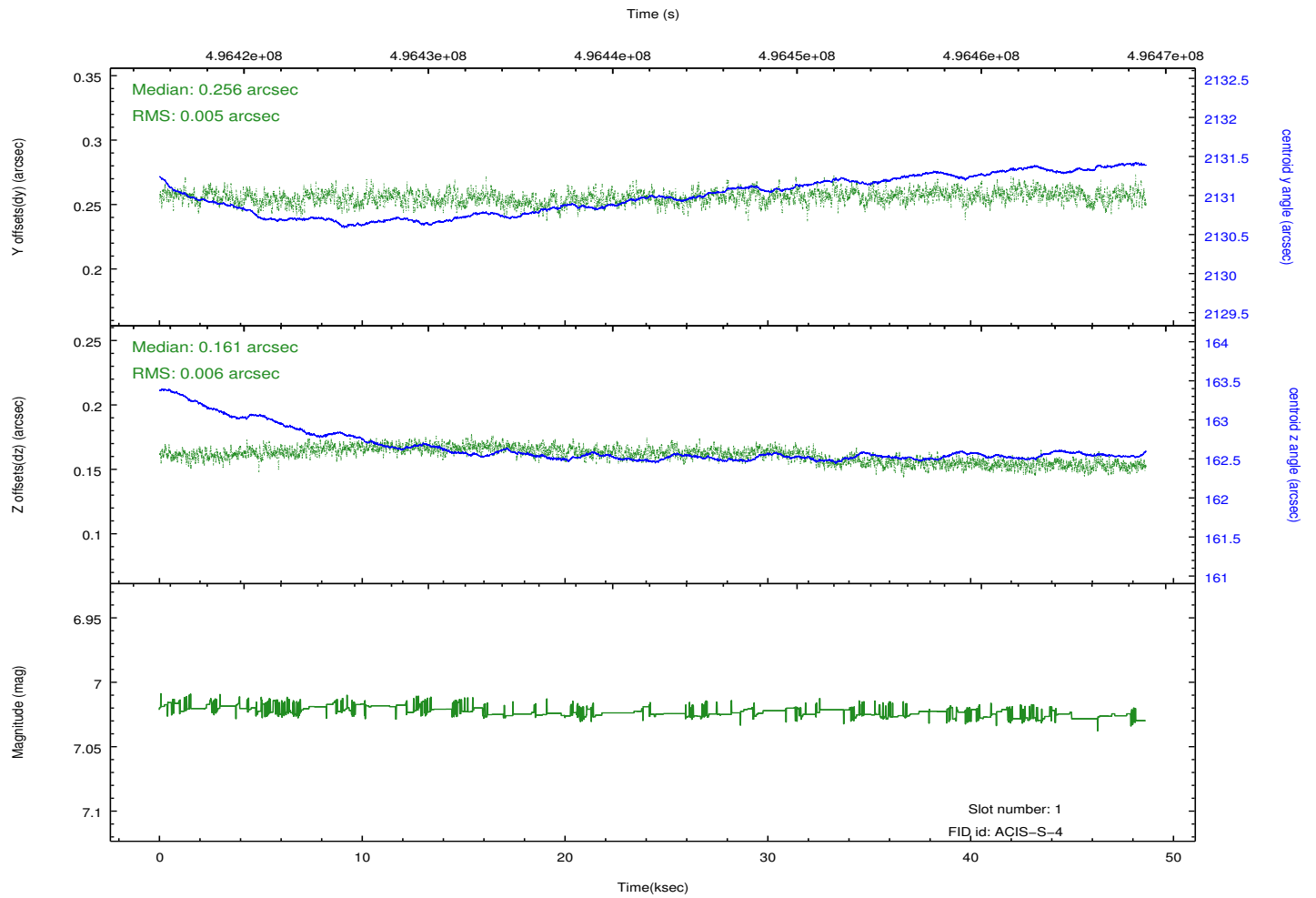
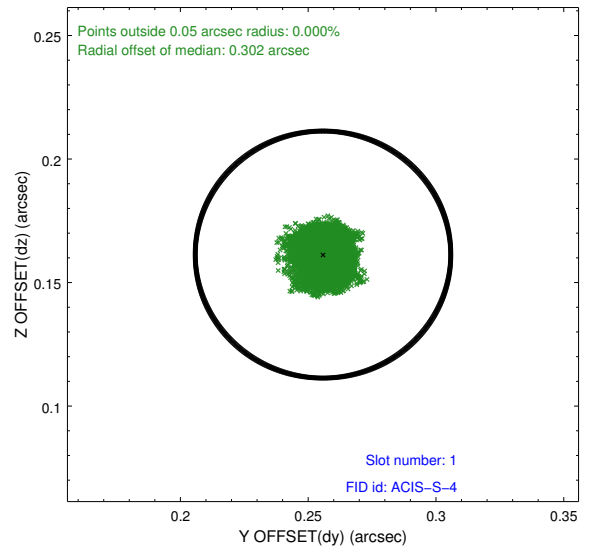
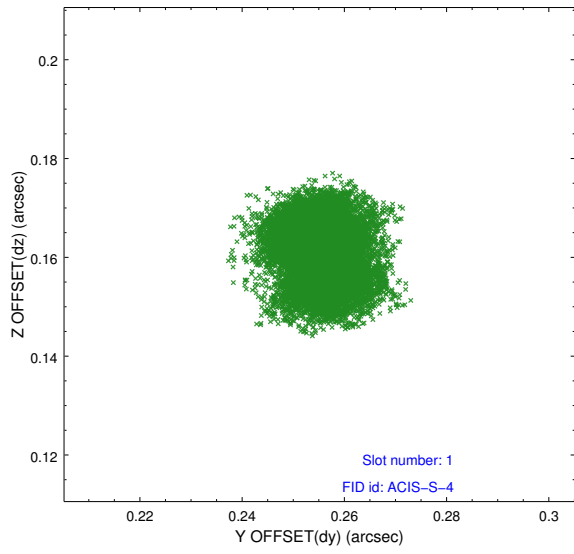


2.5 FID Slots

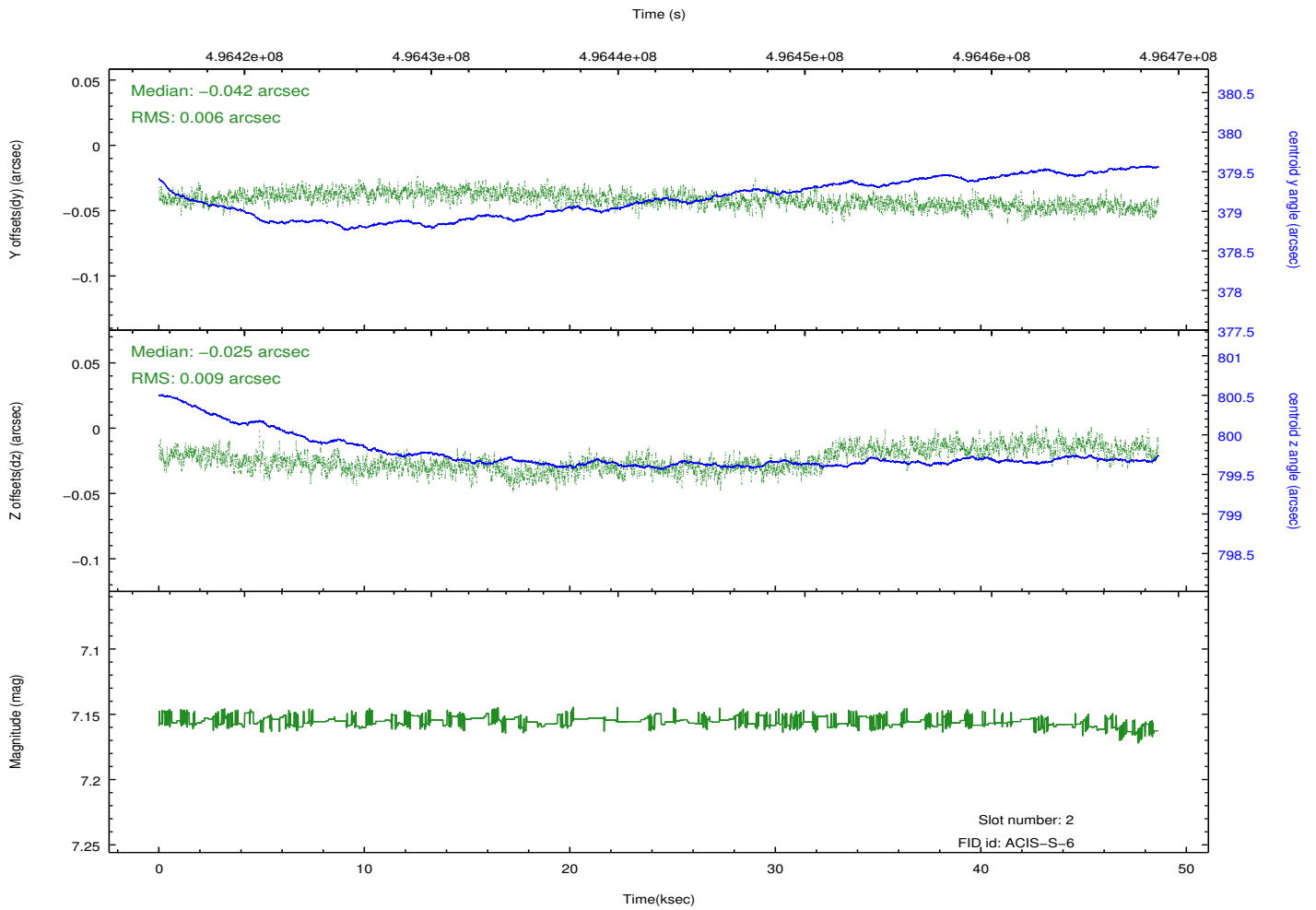
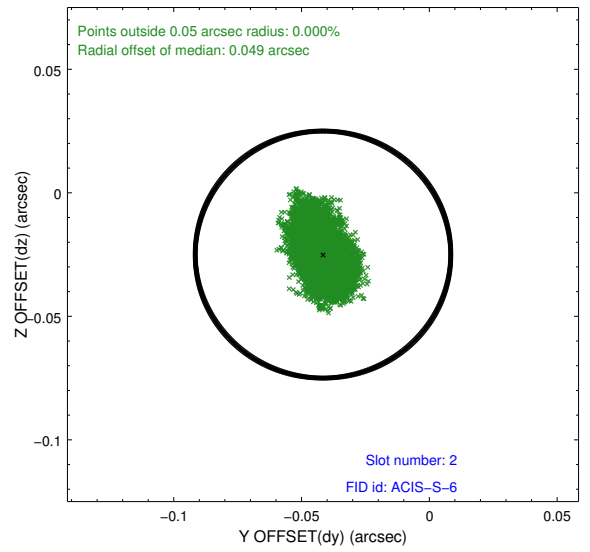
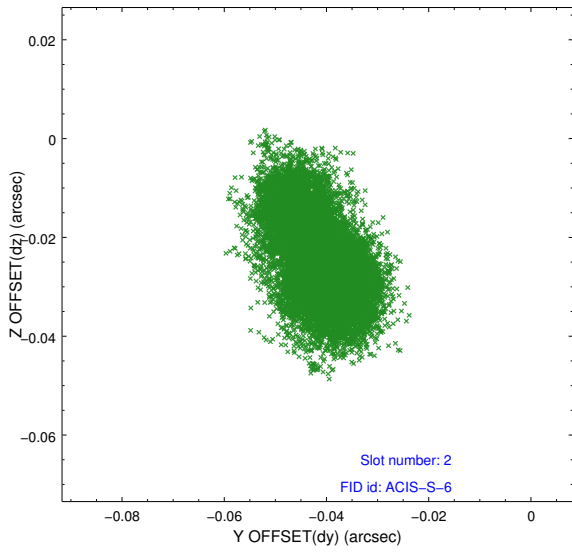
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.789600367546

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.