

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 15747 - L2 Version 1
Chandra X-Ray Center

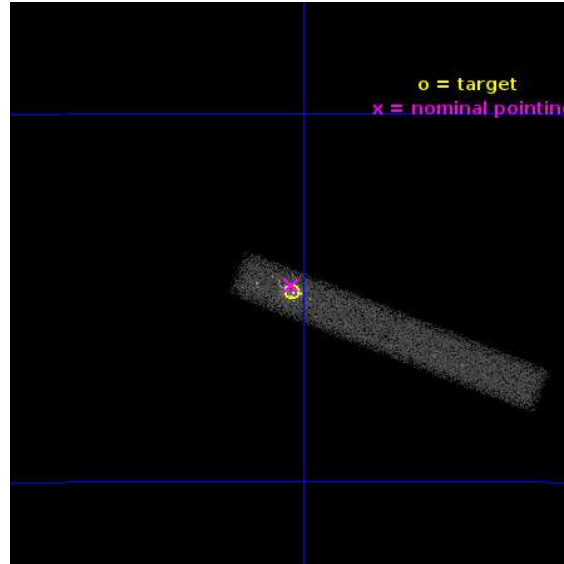
L2 Processing Date : Sep 10 2014

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1 Front

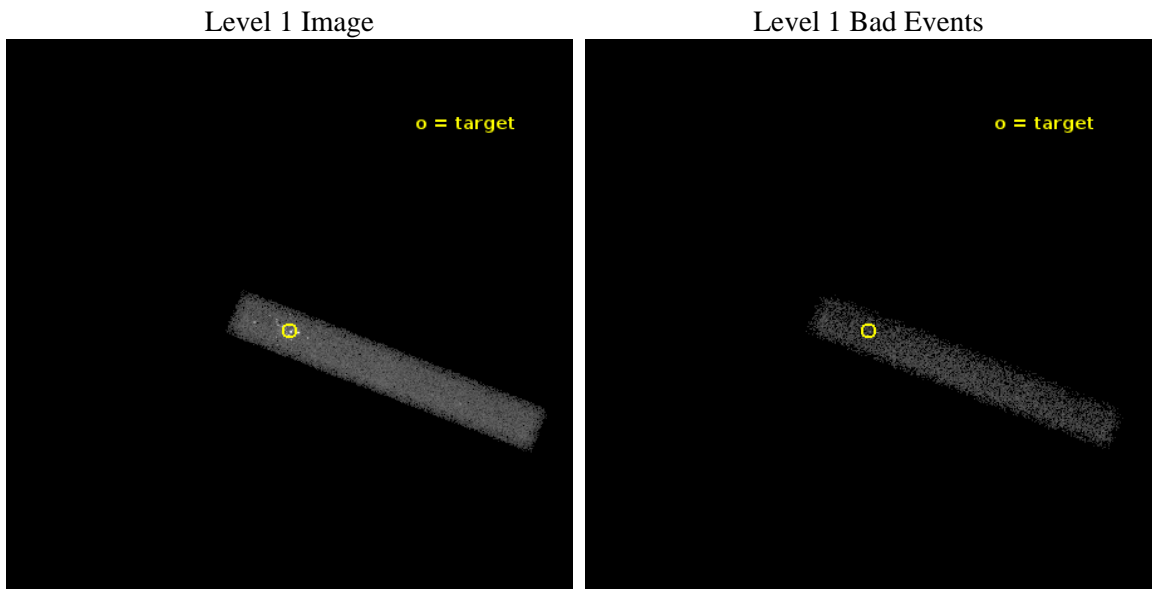
seq_num	401545	Sequence number
obs_id	15747	Observation id
title	A DEEP SUBARRAY EXPOSURE OF X7 IN 47 TUC: TOWARDS CONSTRAINING NEUTRON STAR STRUCTURE	Proposal title
observer	DR. SLAVKO BOGDANOV	Principal investigator
object	47 Tuc	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	6.014558	Observer's specified target RA [deg]
dec_targ	-72.081094	Observer's specified target Dec [deg]
ra_nom	6.0165315705029	Nominal RA [deg]
dec_nom	-72.07804514042	Nominal Dec [deg]
roll_nom	22.158498442512	Nominal Roll [deg]
revision	1	Processing version of data
ontime	55168.715395093	Sum of GTIs [s]
livetime	50035.112819783	Livetime [s]
ontime7	55168.715395093	Sum of GTIs [s]
l2events	38417	Number of level 2 events



2 OBI

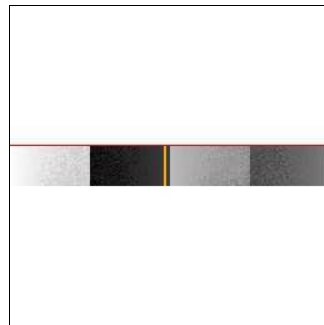
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	55100.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	55168.715395093	Sum of GTIs [s]
caldbver	4.6.3	 	ontime7	55168.715395093	Sum of GTIs [s]
date	2014-09-10T16:55:39	Date and time of file creation	l1events	64719	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	64719
rejected events	25248
rejected %	39%

	ccd 7
grade 0 events	7406
	11%
grade 1 events	79
	0%
grade 2 events	8869
	13%
grade 3 events	4928
	7%
grade 4 events	4786
	7%
grade 5 events	5262
	8%
grade 6 events	13483
	20%
grade 7 events	19906
	30%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	5.962707	6.016531570502934	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-72.099928	-72.0780451404204	Subarray start row	449	449
[deg] Pointing Roll	21.950665	22.15849844251182	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	526679309.184000	526678444.29541			
Observation start date	2014-09-09T19:47:22	2014-09-09T19:34:04			
[s] Observation end time (MET)	526734409.184000	526735880.68609			
Observation end date	2014-09-10T11:05:42	2014-09-10T11:31:20			
Read mode	TIMED	TIMED			

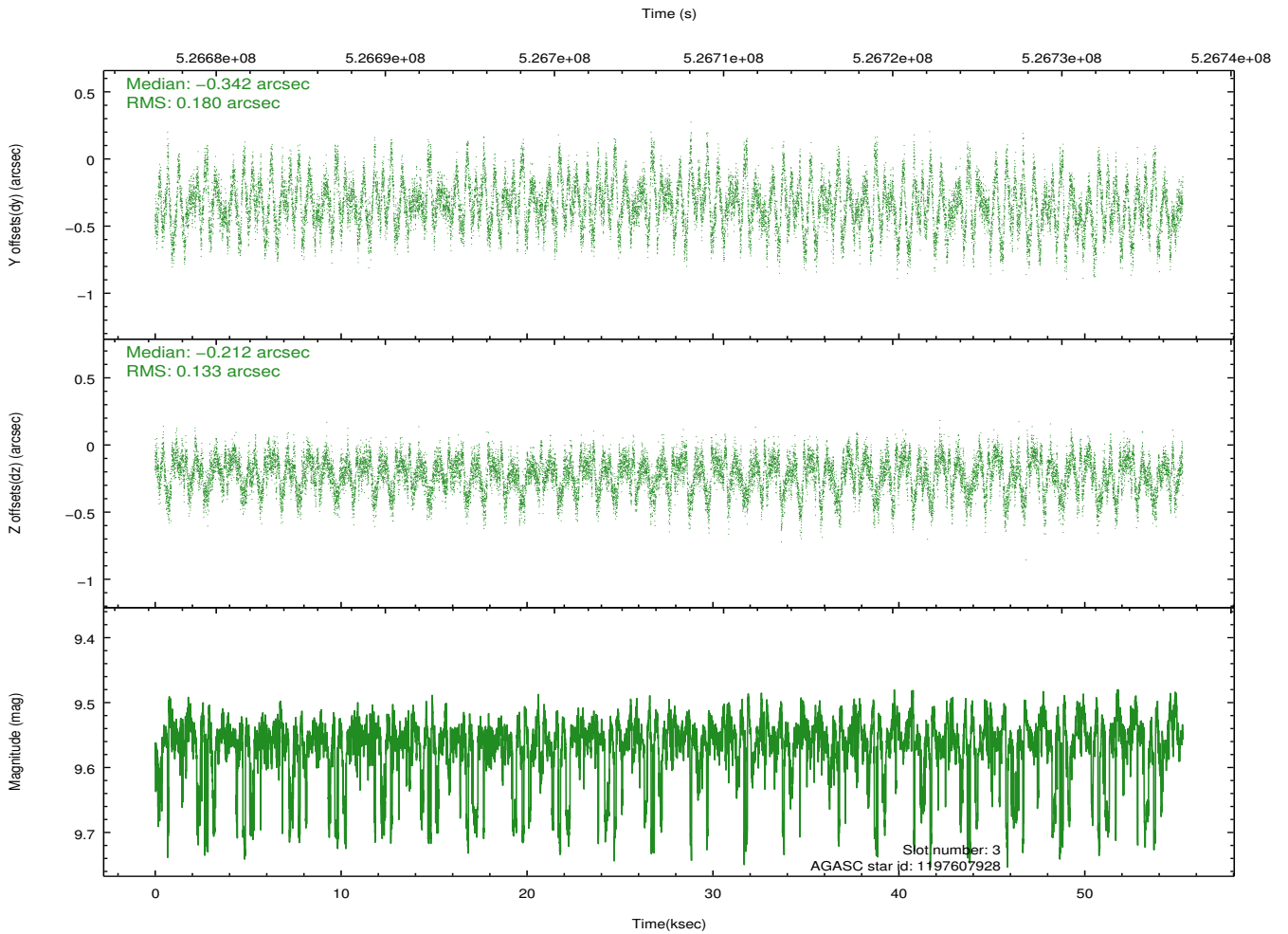
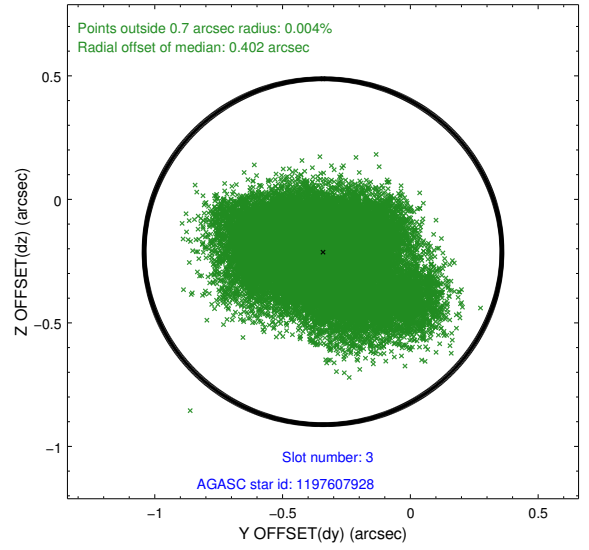
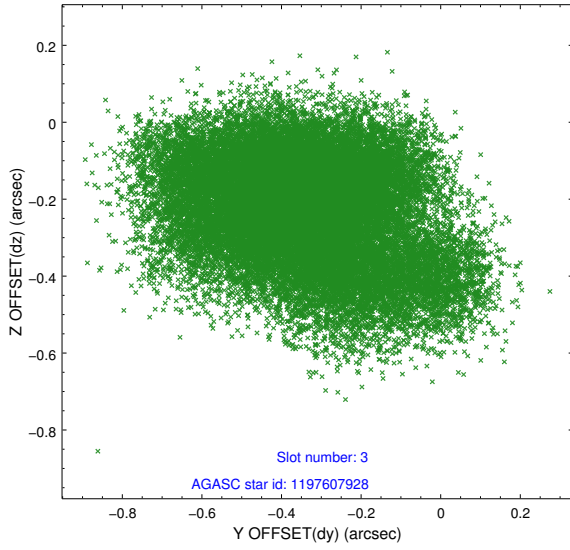
2.3 Aspect

Slot Statistics

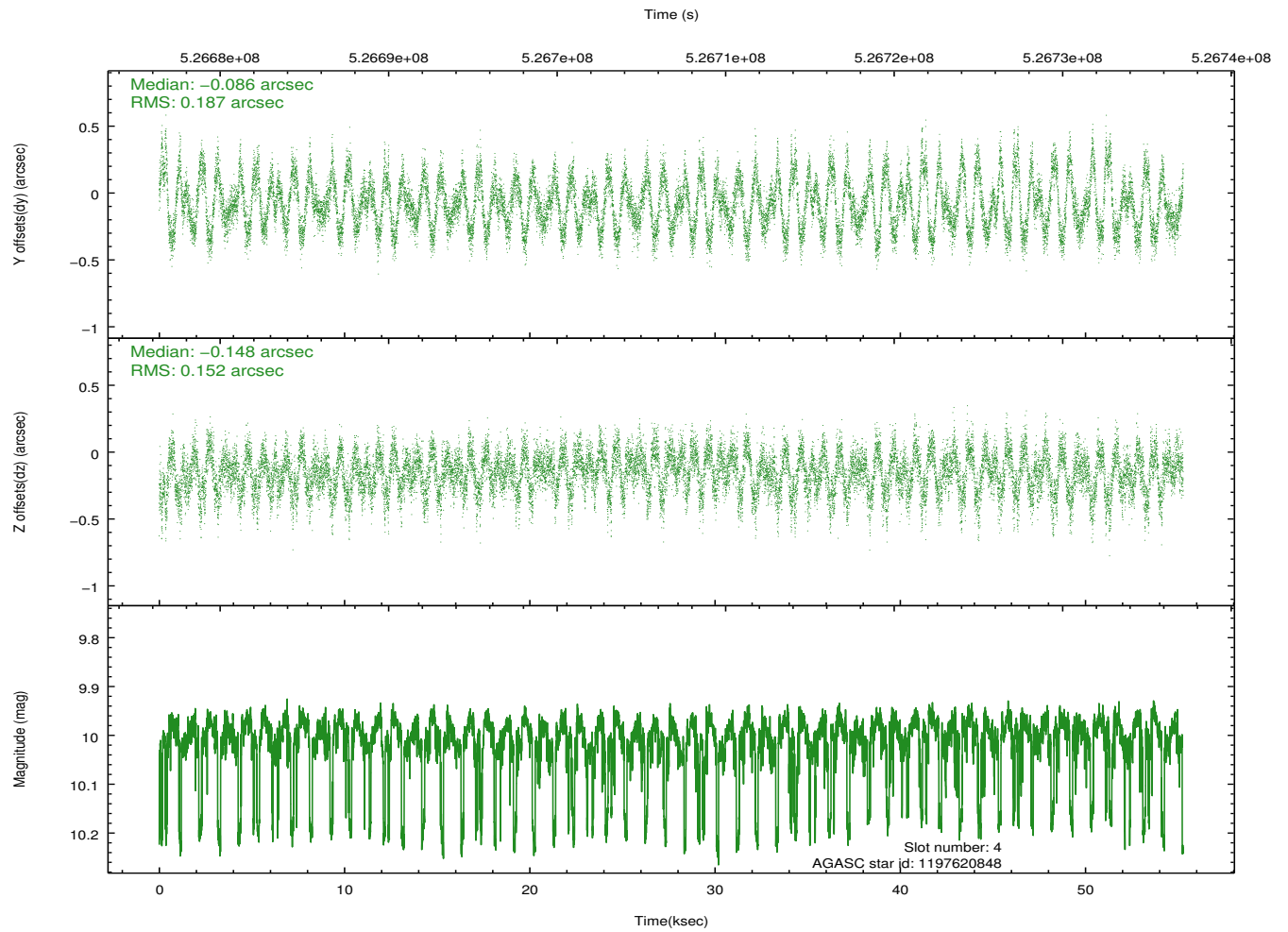
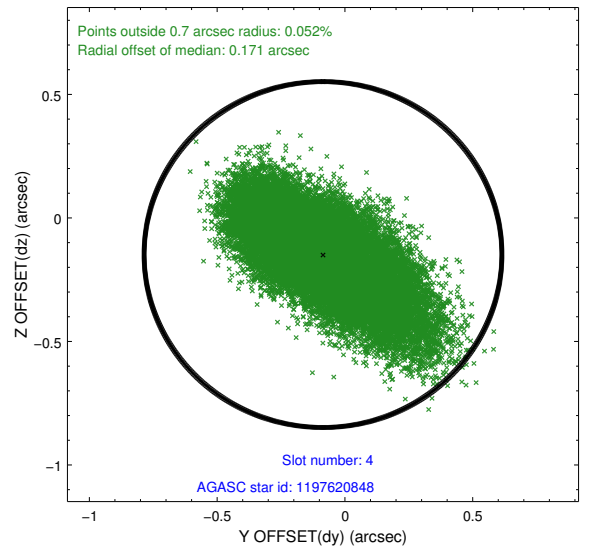
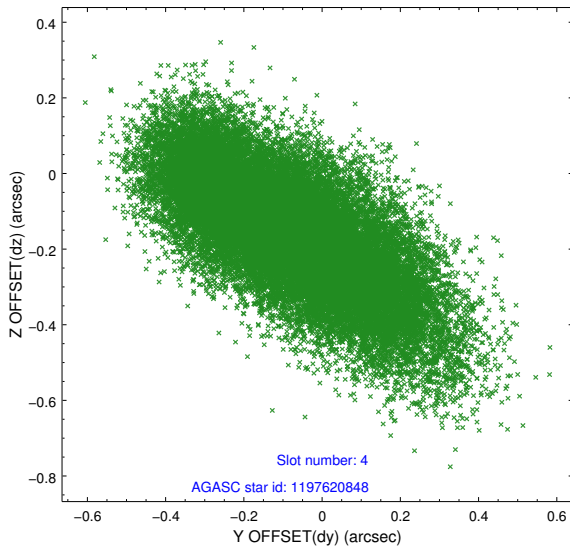
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.97	13483	-0.223	-0.132	0.011	0.027	0.000000	0.000000	-779.73	-1742.42
1	FID	ACIS-S-4	7.07	13483	0.264	0.128	0.015	0.025	0.000000	0.000000	2134.13	166.24
2	FID	ACIS-S-6	7.20	13479	-0.071	0.012	0.016	0.026	0.000000	0.000000	382.46	803.55
3	GUIDE	1197607928	9.56	26946	-0.342	-0.212	0.238	0.396	7.837743	-72.165759	1816.60	-1021.60
4	GUIDE	1197620848	10.00	26940	-0.086	-0.148	0.257	0.422	3.913465	-71.739620	-1674.18	2031.20
5	GUIDE	1197998392	9.72	26932	0.098	0.223	0.303	0.434	6.367452	-72.761261	-489.85	-2370.08
6	GUIDE	1198000776	9.83	26892	0.317	0.225	0.241	0.367	4.972441	-72.805451	-1929.80	-1969.43
7	GUIDE	1197621088	9.87	26938	0.057	-0.044	0.259	0.421	3.823480	-72.180366	-2307.06	572.50

2.4 Star Slots

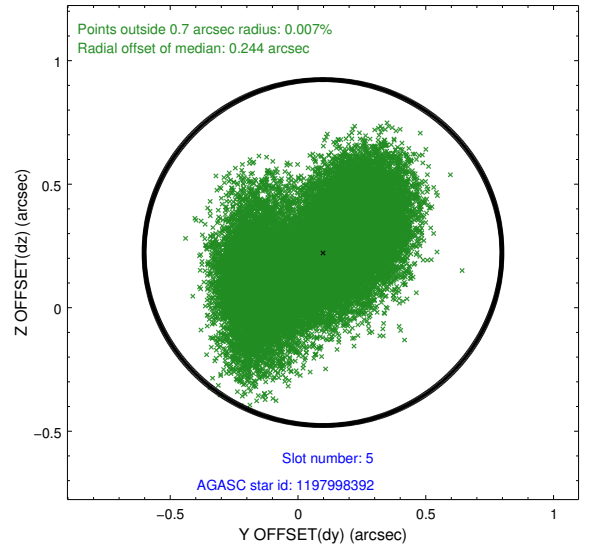
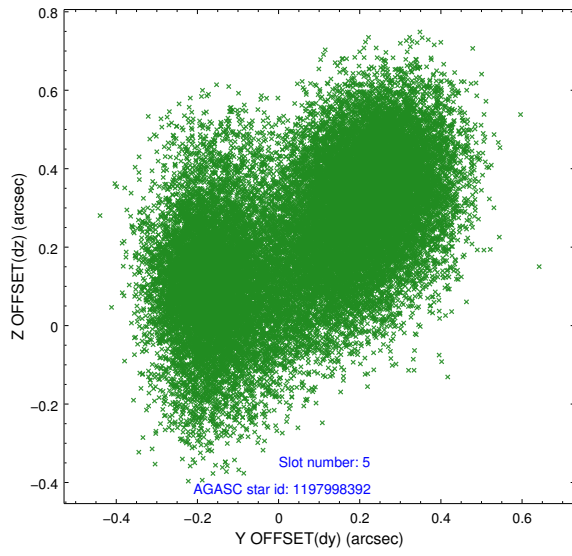
2.4.1 Slot 3



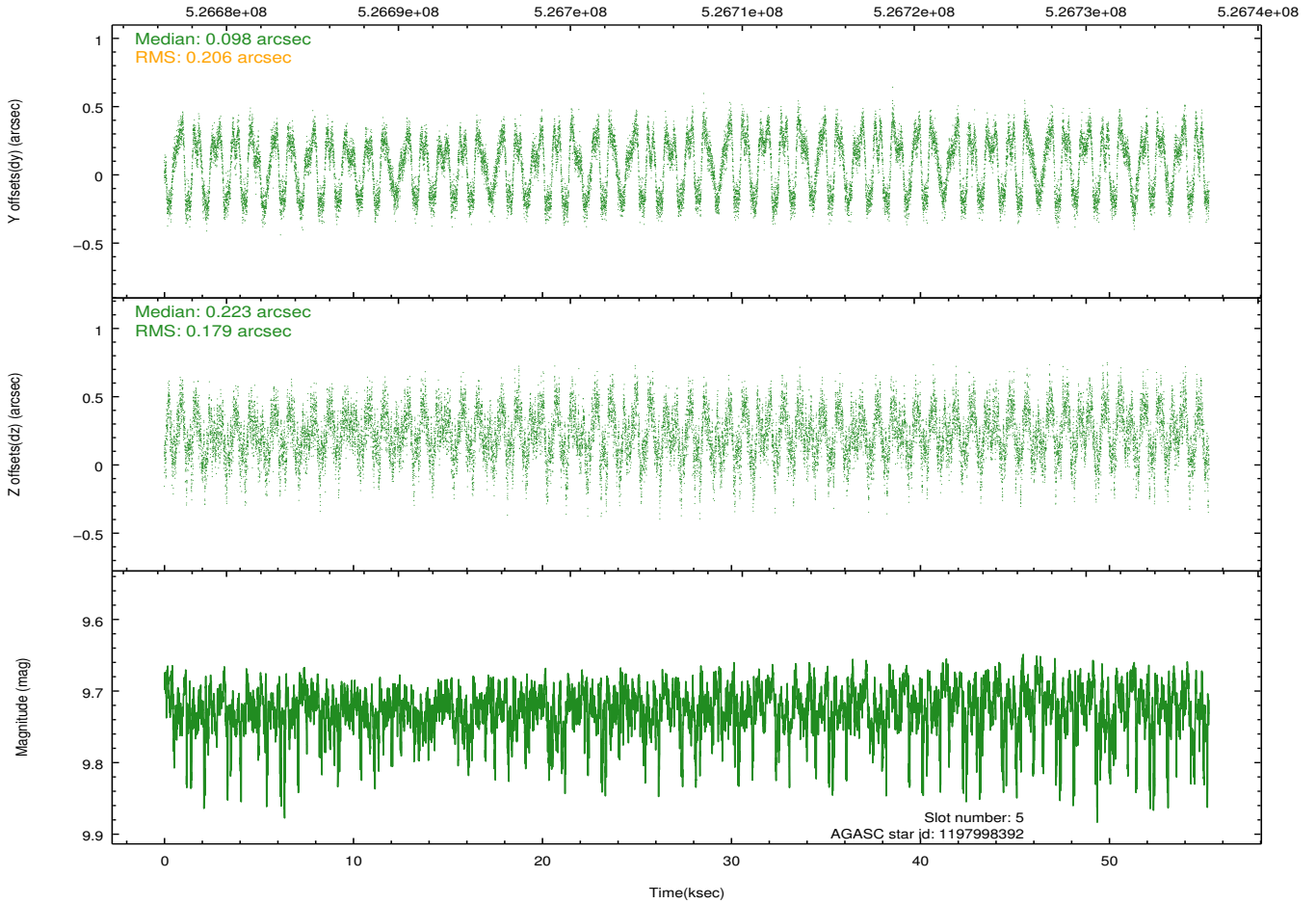
2.4.2 Slot 4



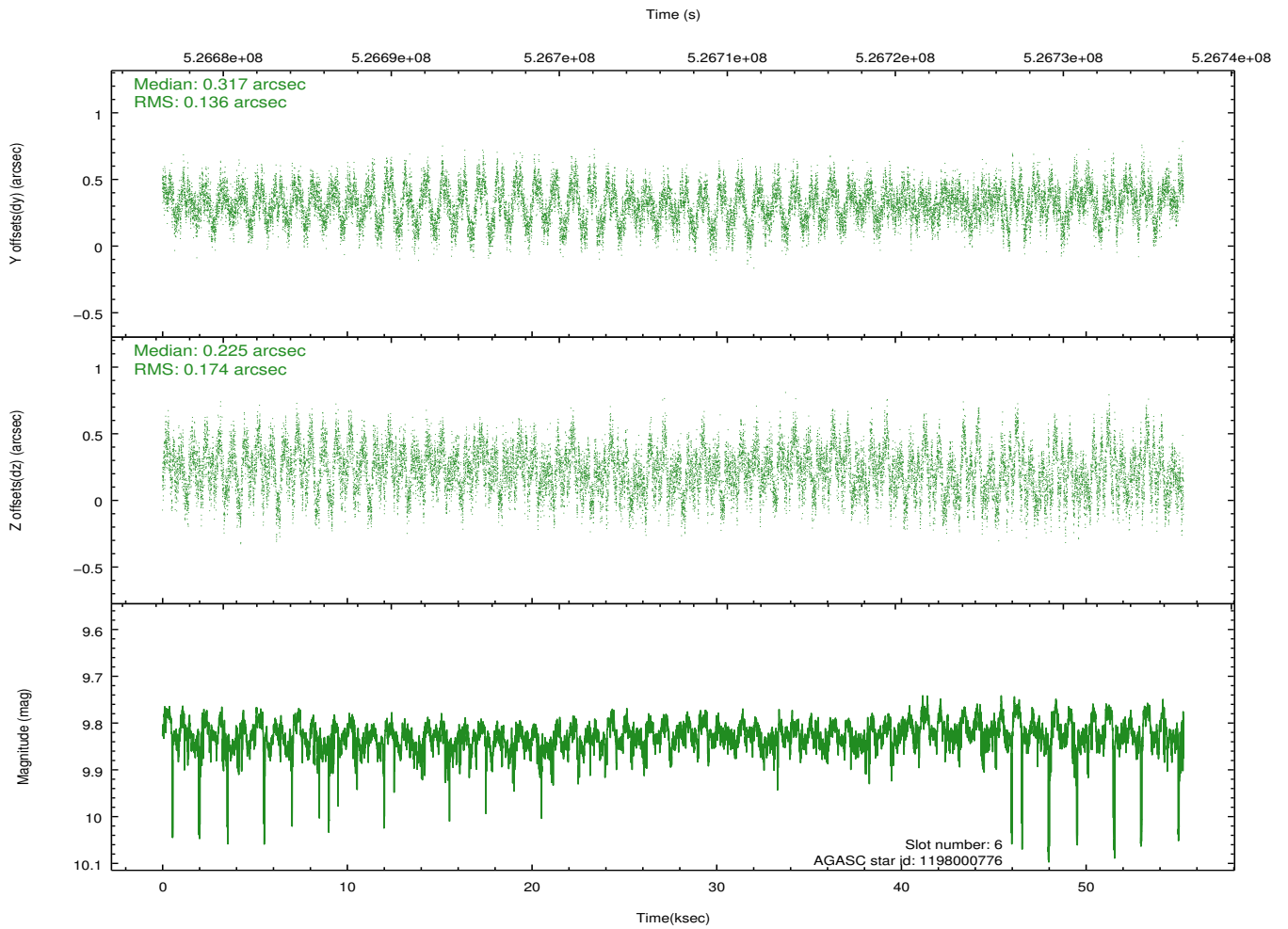
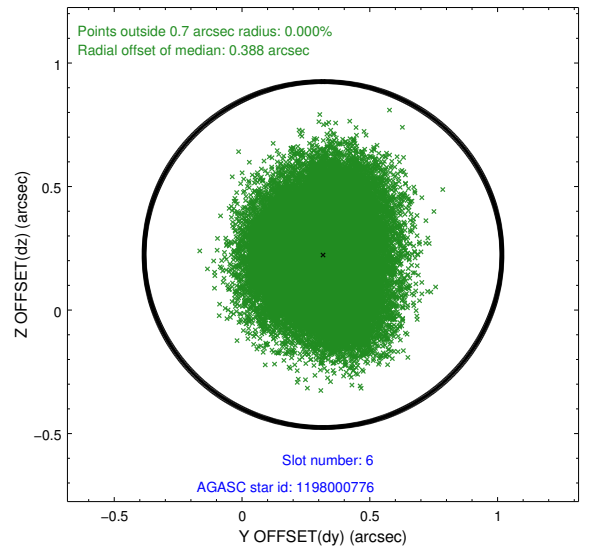
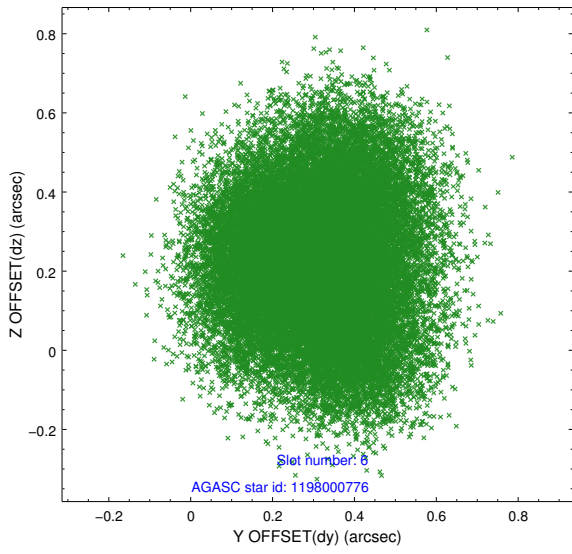
2.4.3 Slot 5



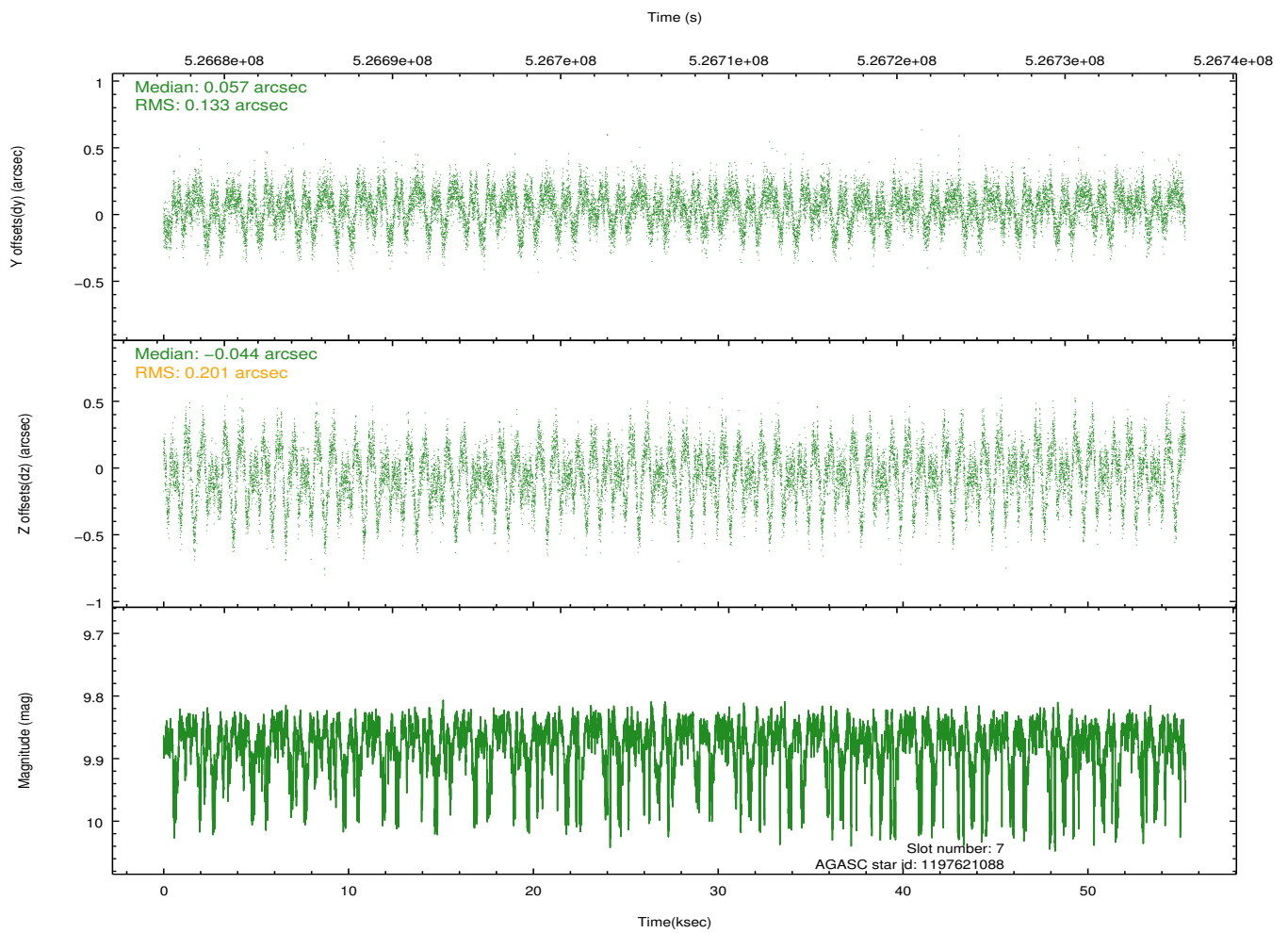
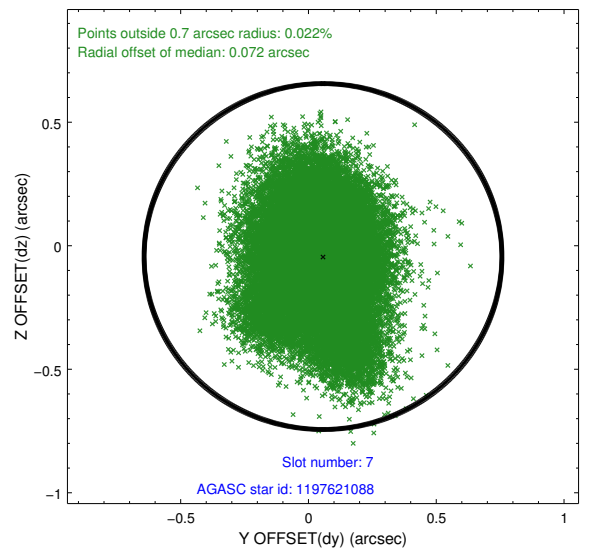
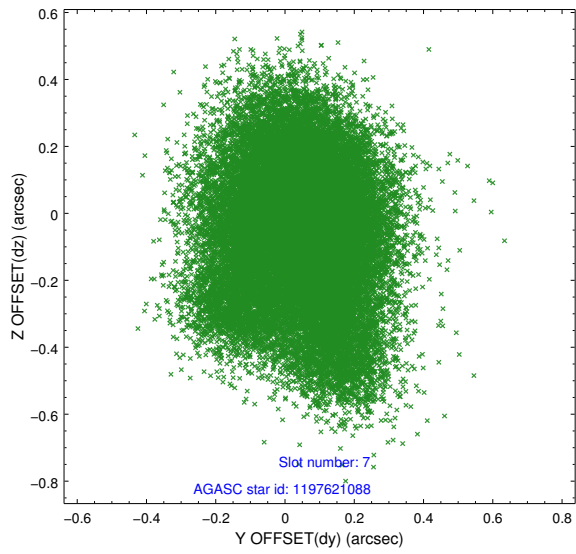
Time (s)



2.4.4 Slot 6

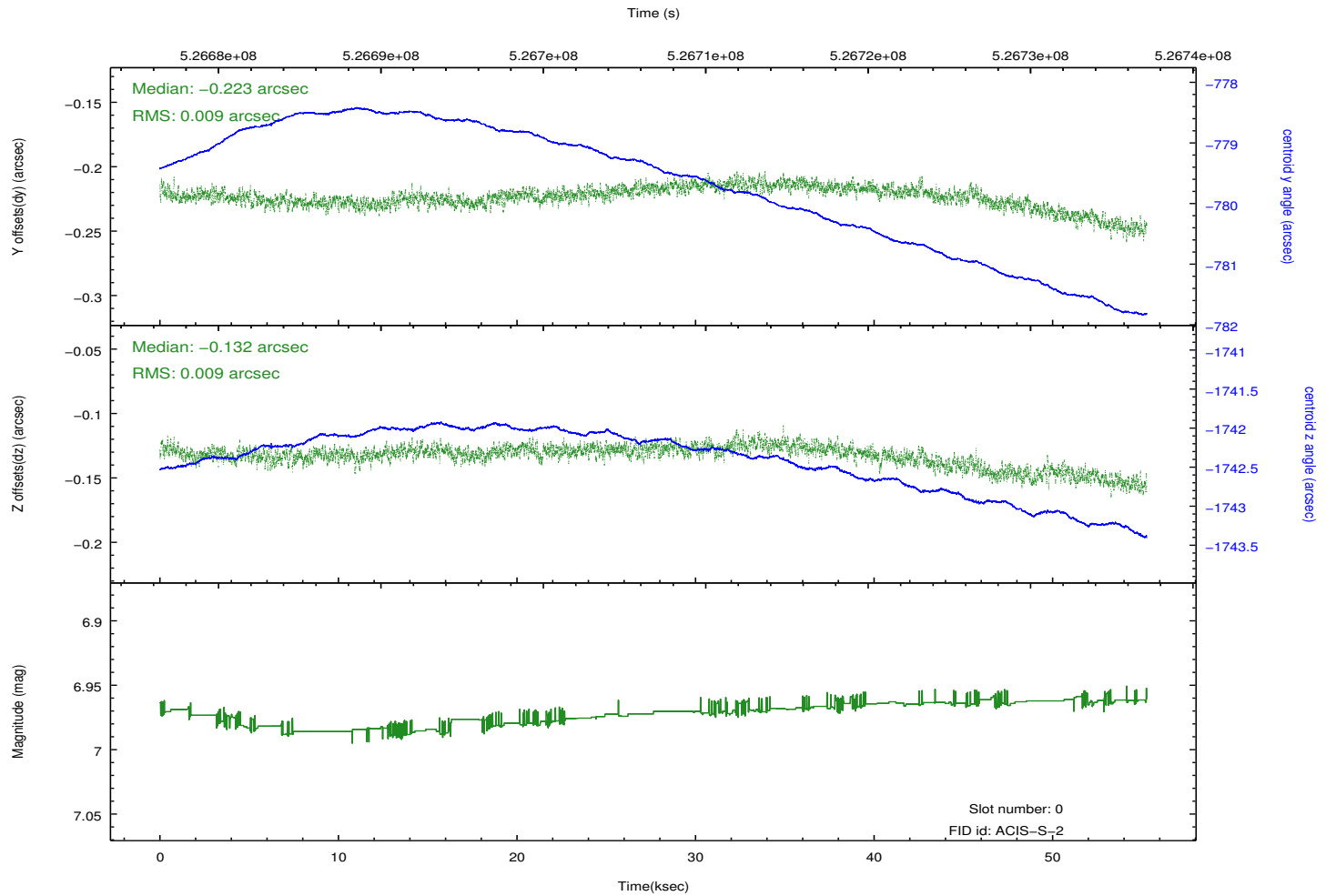
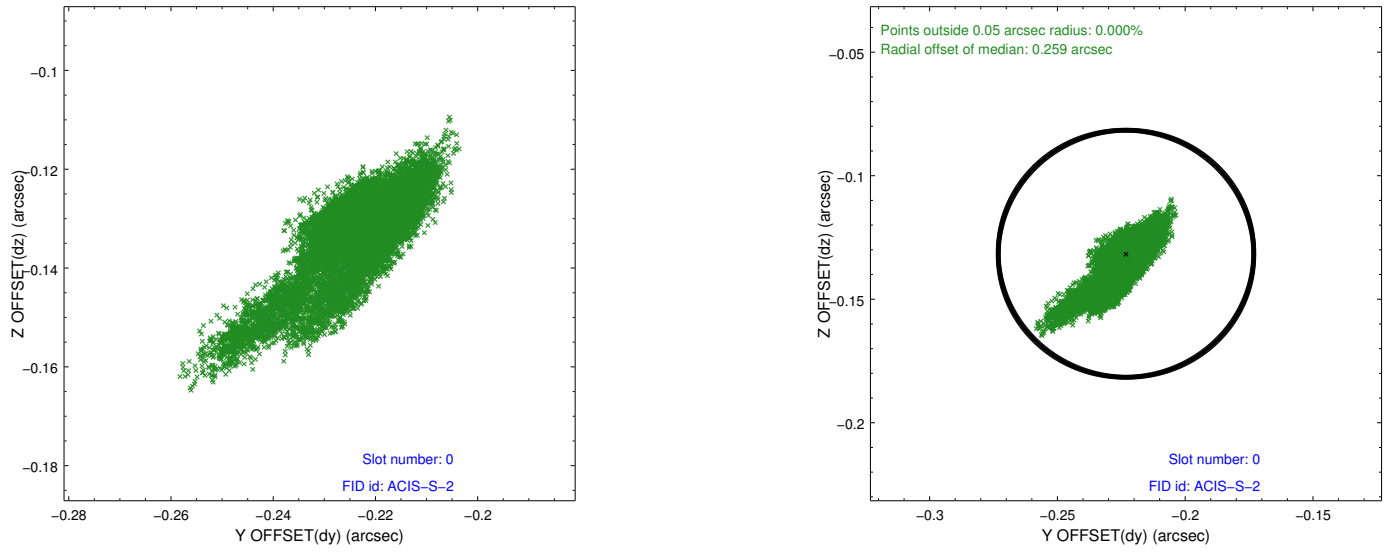


2.4.5 Slot 7

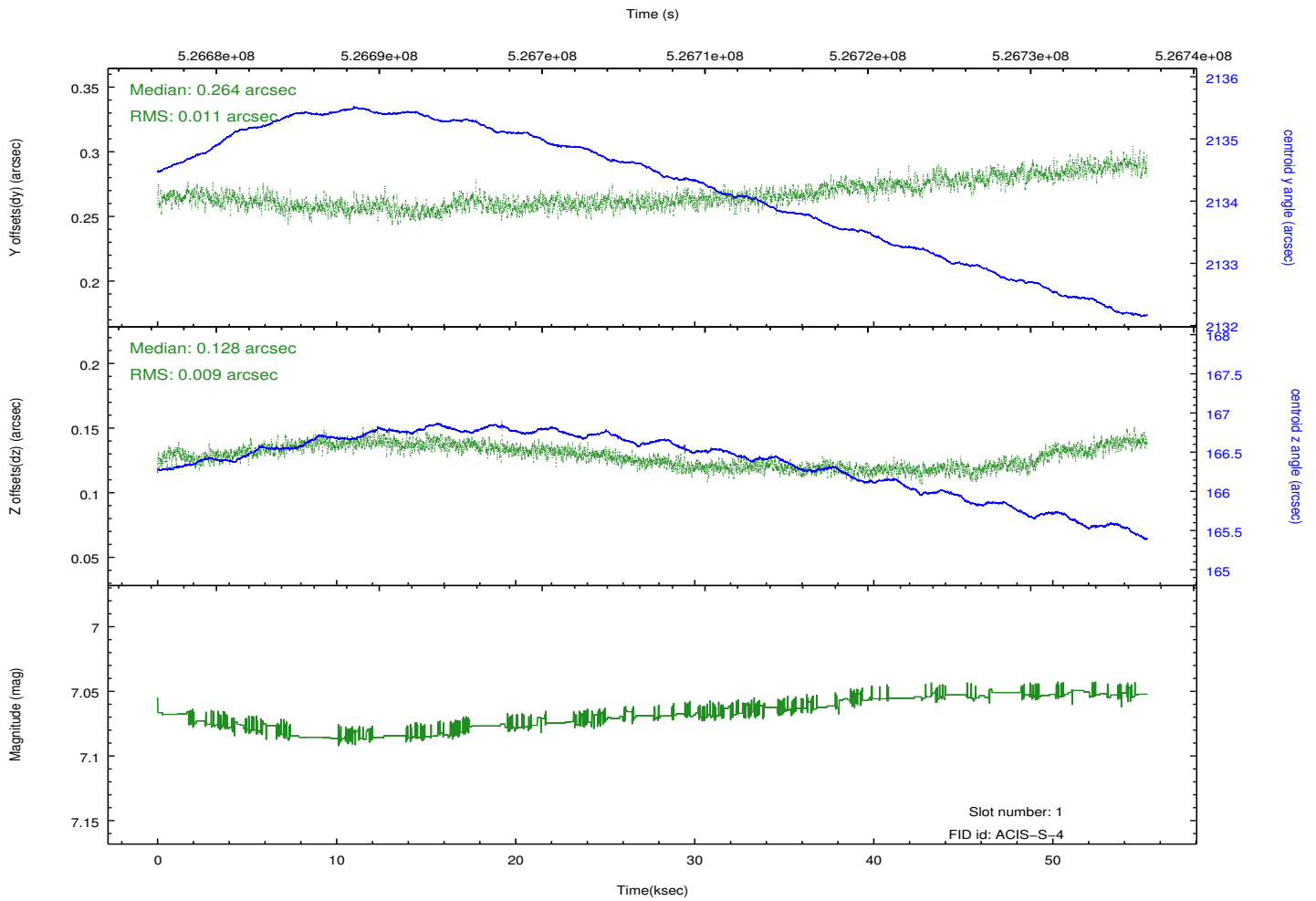
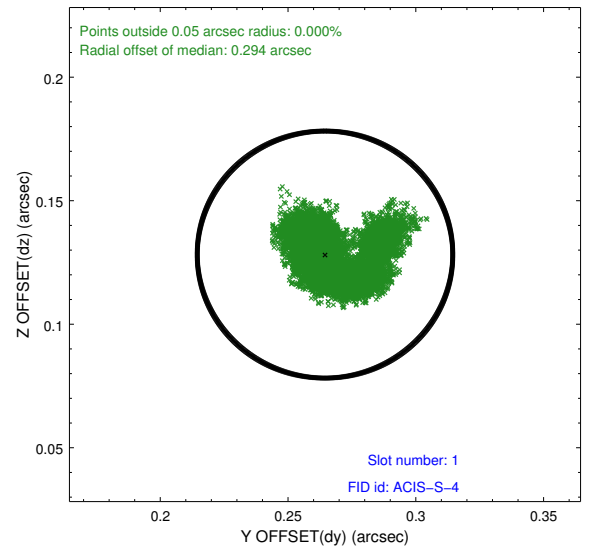
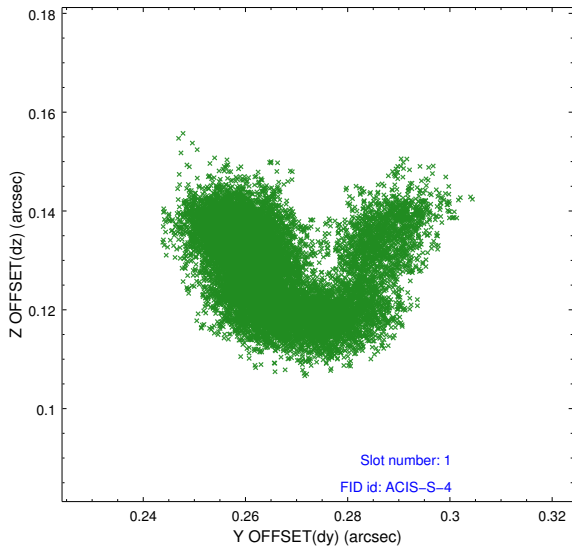


2.5 FID Slots

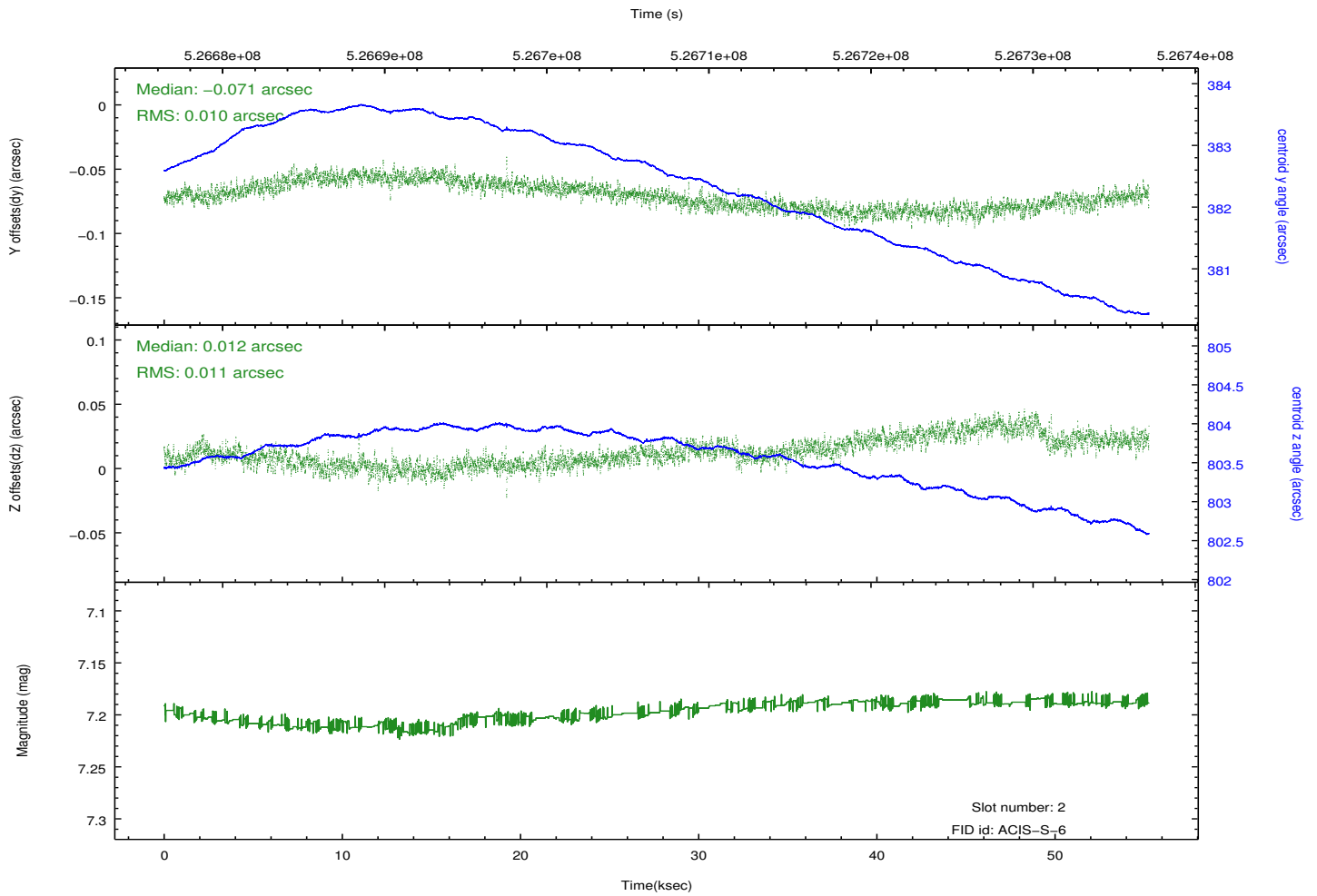
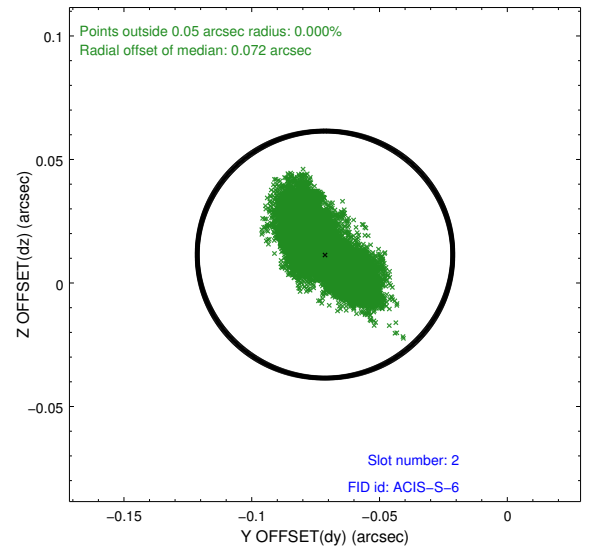
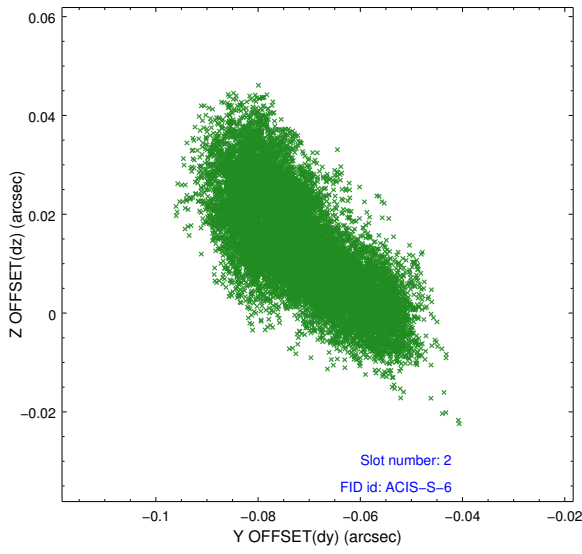
2.5.1 Slot 0



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)	2014.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	55.168715395093

A.2 Comments