

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16529 - L2 Version 1
Chandra X-Ray Center

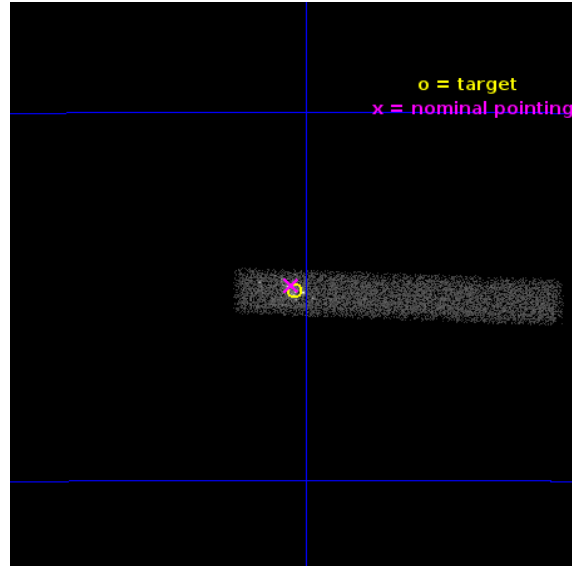
L2 Processing Date : Sep 21 2014

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1 Front

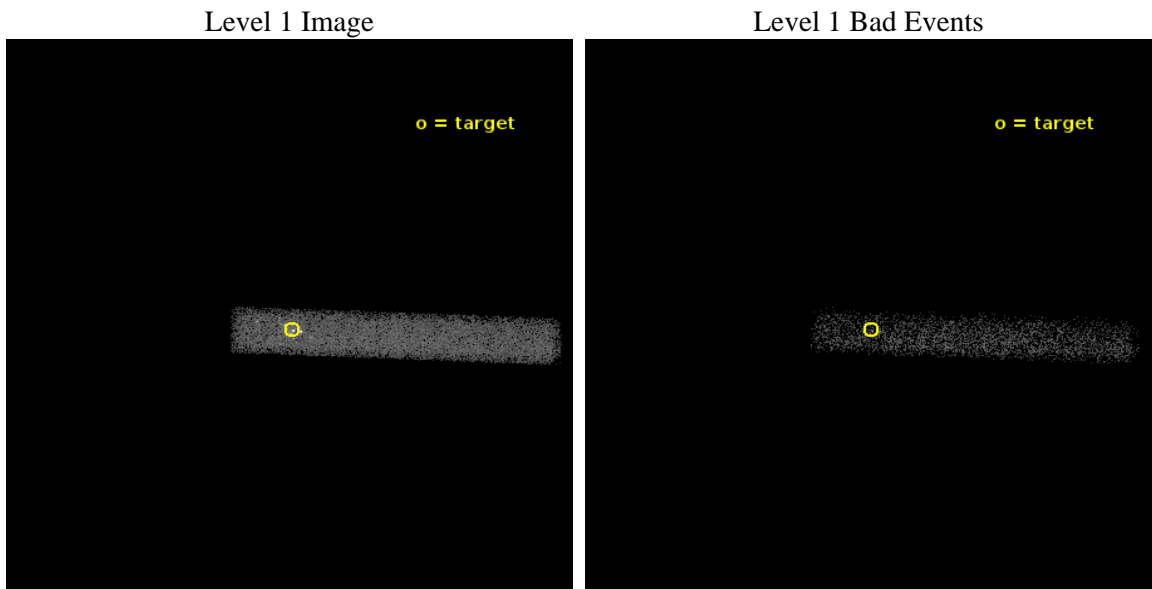
seq_num	401545	Sequence number
obs_id	16529	Observation id
title	A DEEP SUBARRAY EXPOSURE OF X7 IN 47 TUC: TOWARDS CONSTRAINING NEUTRON STAR STRUCTURE	Proposal title
observer	DR. SLAVKO BOGDANOV	Principal investigator
object	47 Tuc	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	6.014558	Observer's specified target RA [deg]
dec_targ	-72.081094	Observer's specified target Dec [deg]
ra_nom	6.0198900649434	Nominal RA [deg]
dec_nom	-72.078446223603	Nominal Dec [deg]
roll_nom	2.1616884447096	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27234.686413825	Sum of GTIs [s]
livetime	24700.42301272	Livetime [s]
ontime7	27234.686413825	Sum of GTIs [s]
l2events	19912	Number of level 2 events



2 OBI

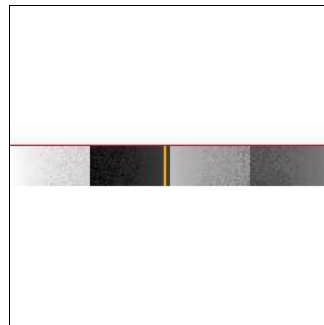
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27165.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	27234.686413825	Sum of GTIs [s]
caldbver	4.6.3	 	ontime7	27234.686413825	Sum of GTIs [s]
date	2014-09-22T02:11:47	Date and time of file creation	l1events	34006	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

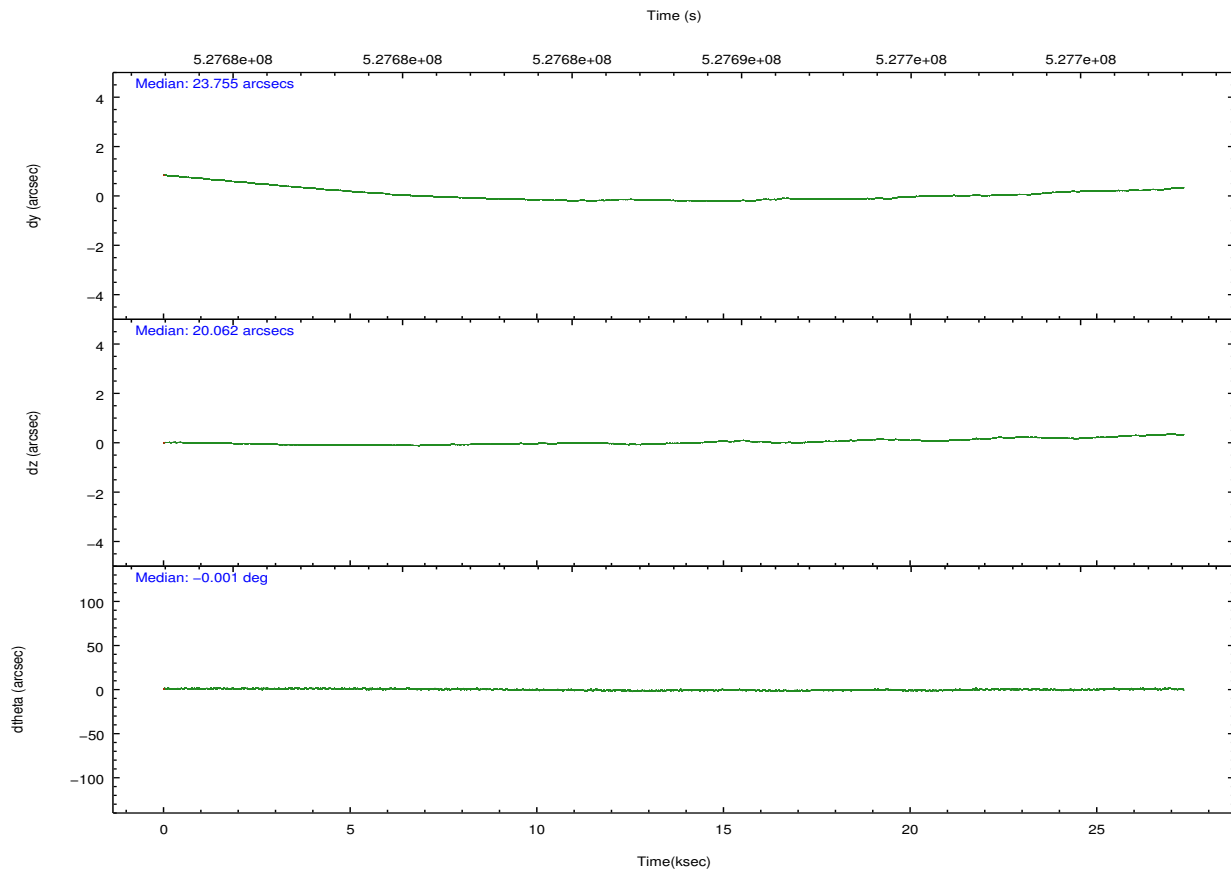
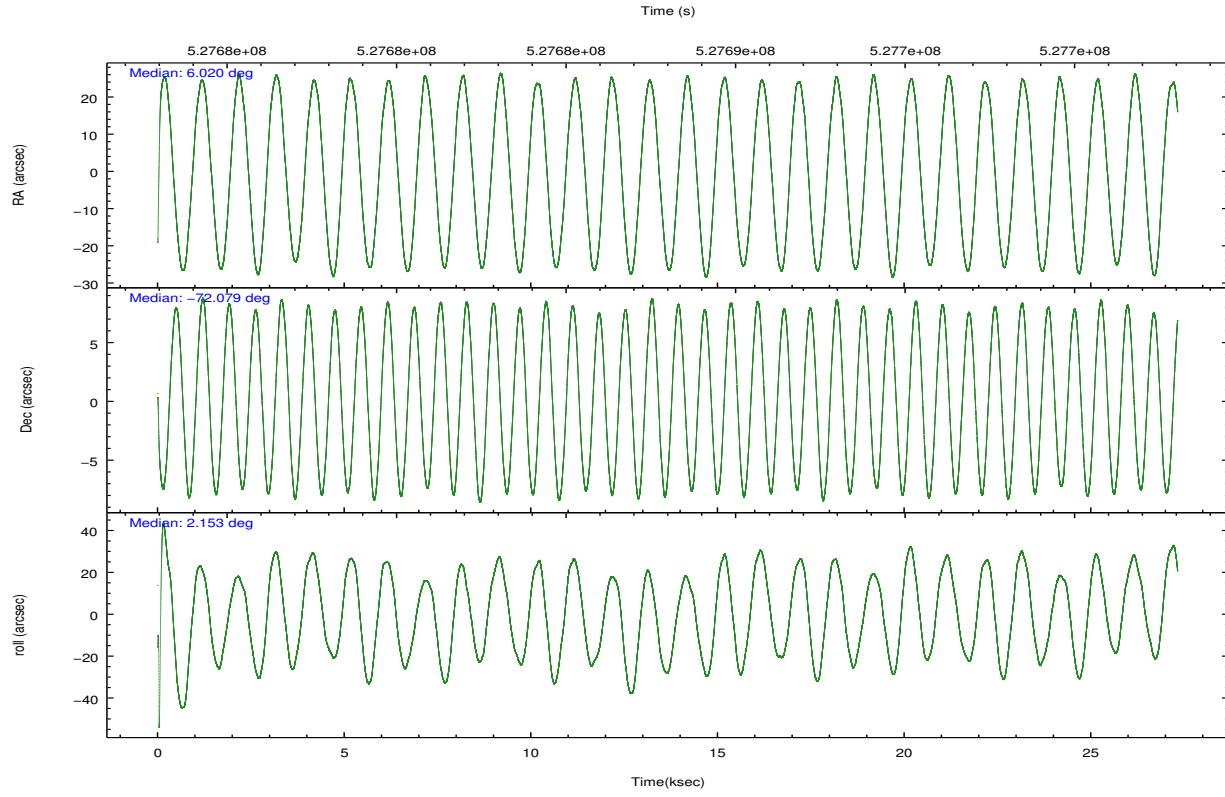
	ccd 7
level 1 events	34006
rejected events	13537
rejected %	39%

	ccd 7
grade 0 events	3928
	11%
grade 1 events	36
	0%
grade 2 events	4511
	13%
grade 3 events	2536
	7%
grade 4 events	2460
	7%
grade 5 events	2722
	8%
grade 6 events	7034
	20%
grade 7 events	10779
	31%

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	5.944899	6.019890064943446	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-72.093331	-72.07844622360275	Subarray start row	449	449
[deg] Pointing Roll	1.933717	2.161688444709602	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)	527674500.184000	527673418.51315			
Observation start date	2014-09-21T08:13:53	2014-09-21T07:56:58			
[s] Observation end time (MET)	527701665.184000	527702866.76478			
Observation end date	2014-09-21T15:46:38	2014-09-21T16:07:46			
Read mode	TIMED	TIMED			

2.3 Aspect

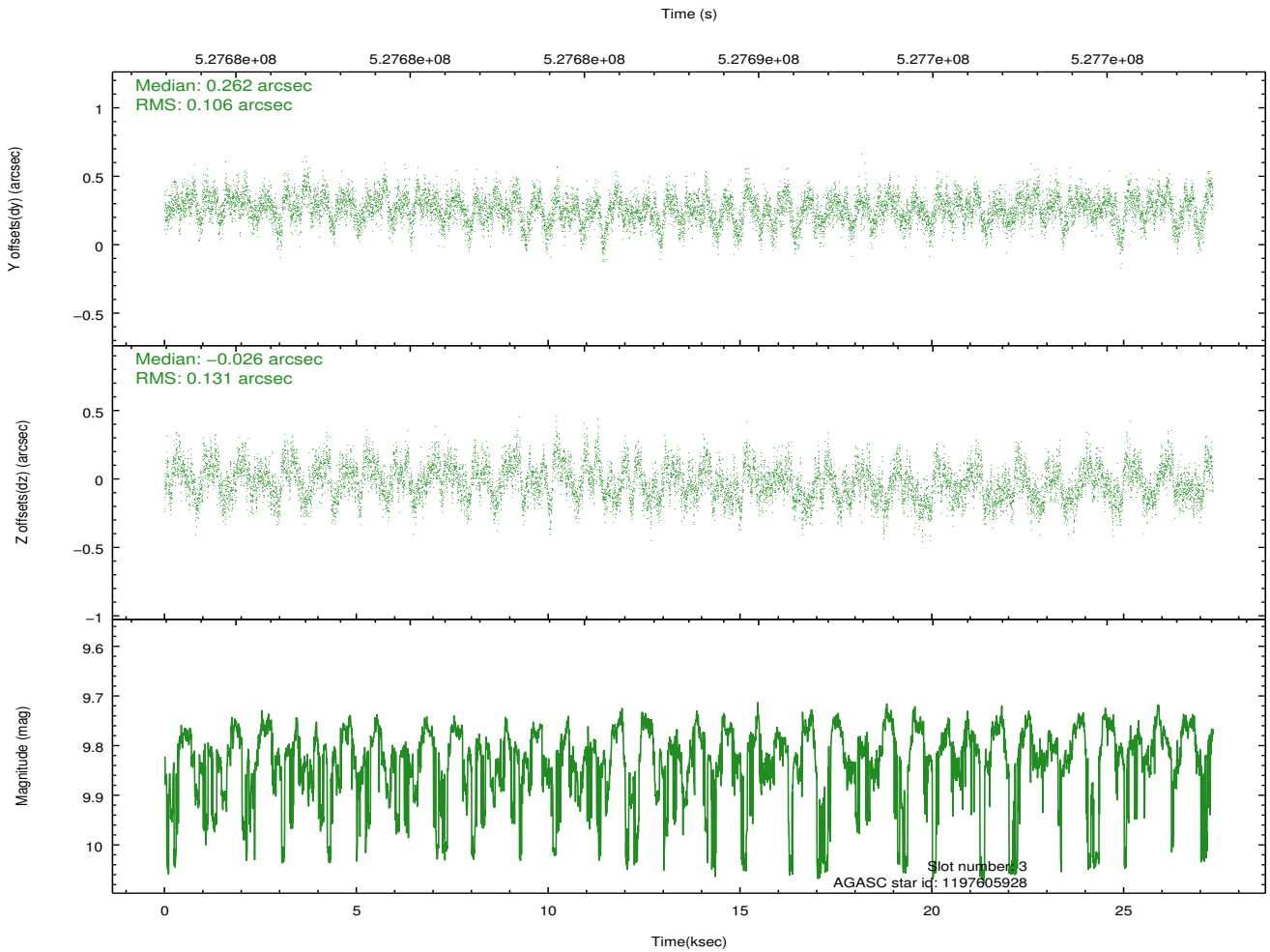
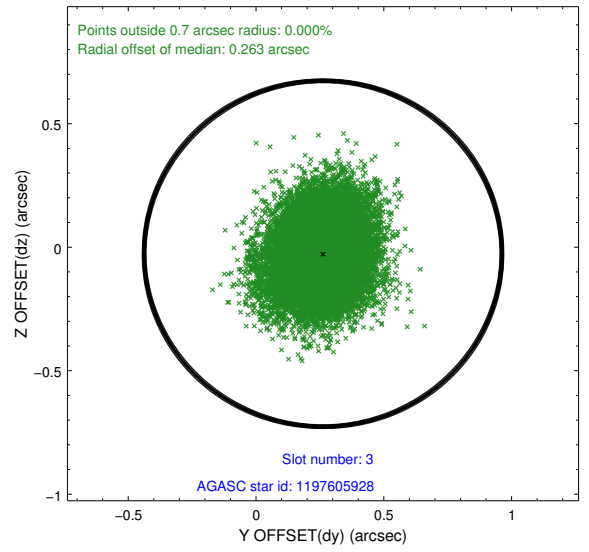
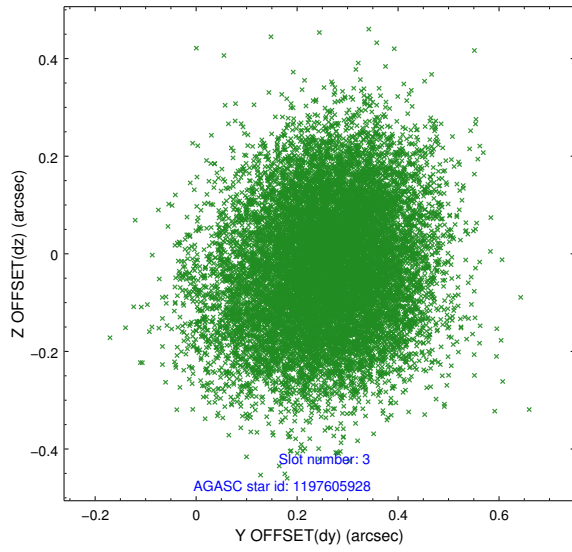


Slot Statistics

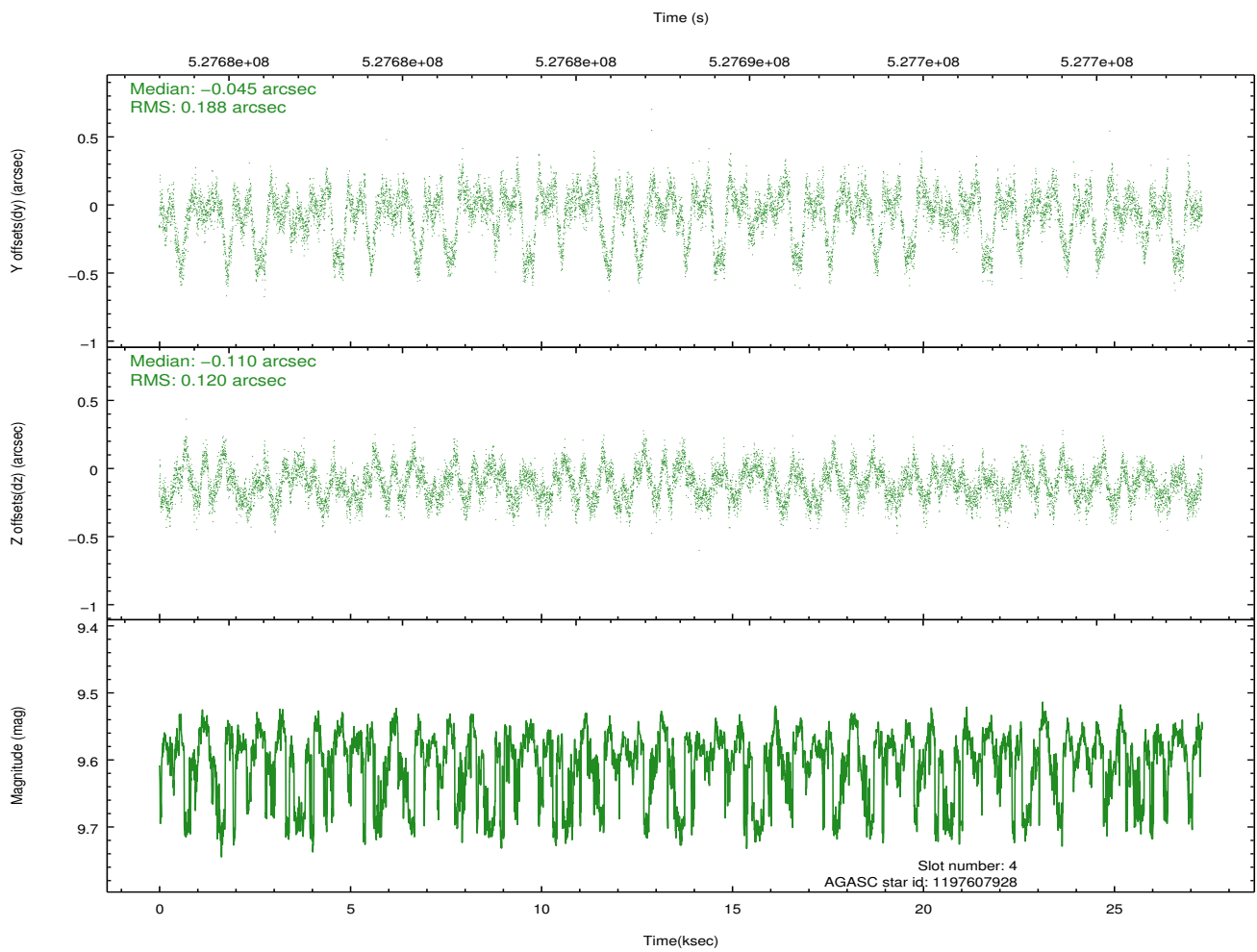
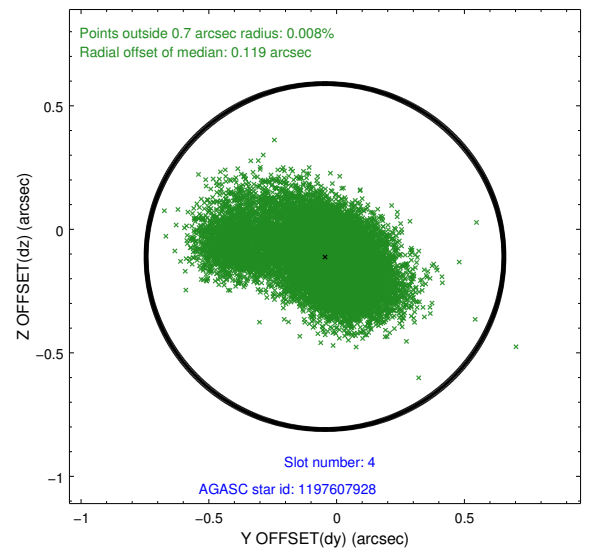
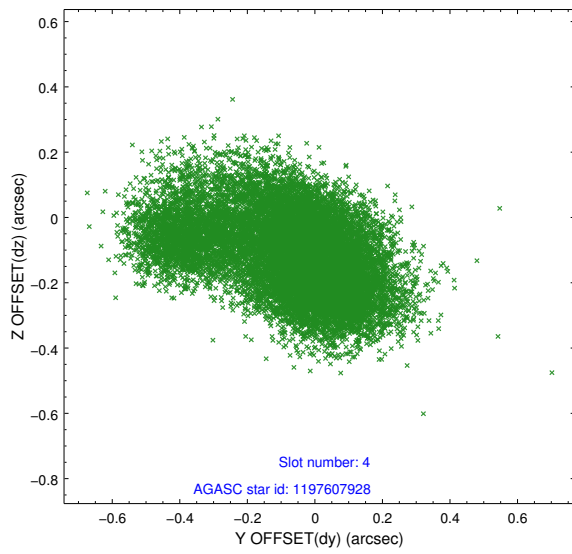
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.02	6663	-0.220	-0.130	0.008	0.015	0.000000	0.000000	-777.34	-1741.71
1	FID	ACIS-S-4	7.12	6664	0.251	0.130	0.010	0.018	0.000000	0.000000	2136.46	166.79
2	FID	ACIS-S-6	7.25	6664	-0.058	0.007	0.010	0.019	0.000000	0.000000	385.06	804.26
3	GUIDE	1197605928	9.82	13294	0.262	-0.026	0.182	0.285	4.361277	-72.423732	-1761.04	-1153.42
4	GUIDE	1197607928	9.59	13306	-0.045	-0.110	0.228	0.409	7.837743	-72.165759	2075.46	-362.97
5	GUIDE	1197620848	9.96	12890	-0.111	-0.214	0.189	0.314	3.913465	-71.739620	-2248.79	1311.59
6	GUIDE	1197621088	9.88	13310	0.048	0.170	0.205	0.345	3.823480	-72.180366	-2344.85	-275.10
7	GUIDE	1197998392	9.78	13279	-0.151	0.122	0.269	0.409	6.367452	-72.761261	369.11	-2419.23

2.4 Star Slots

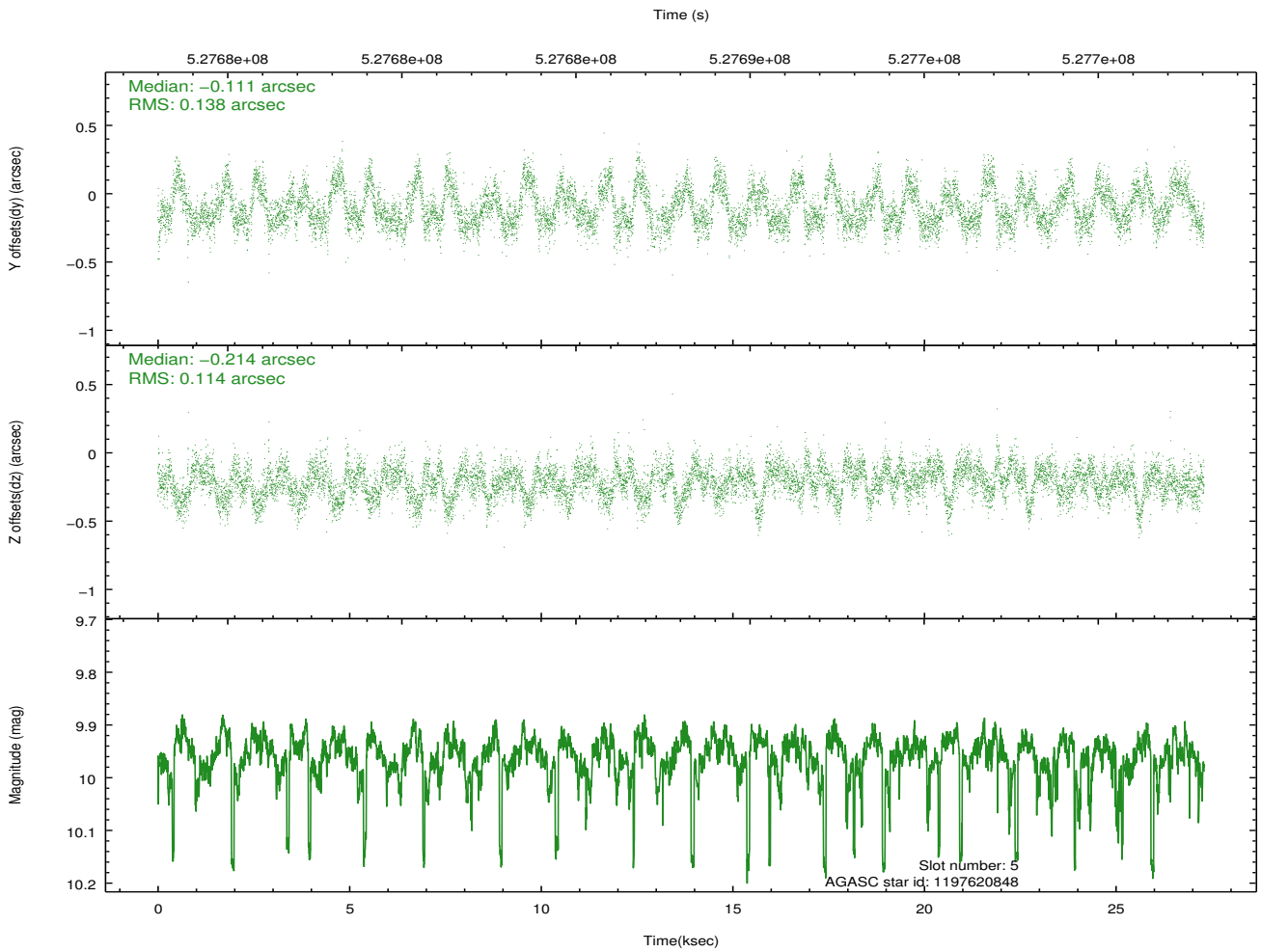
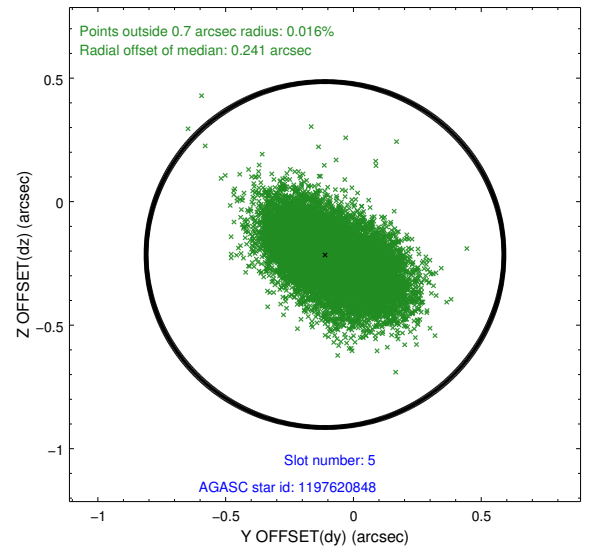
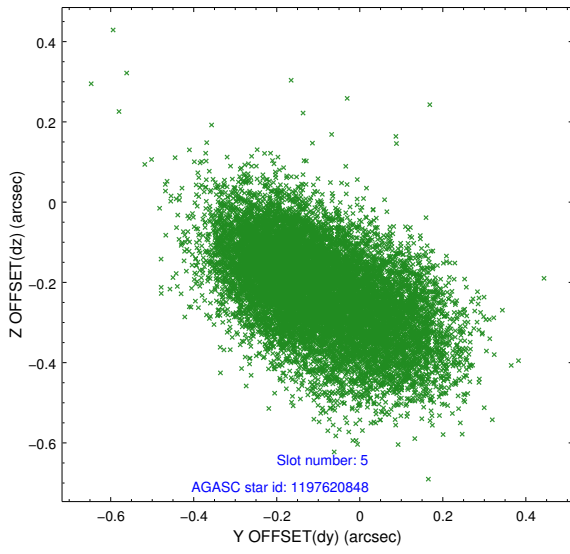
2.4.1 Slot 3



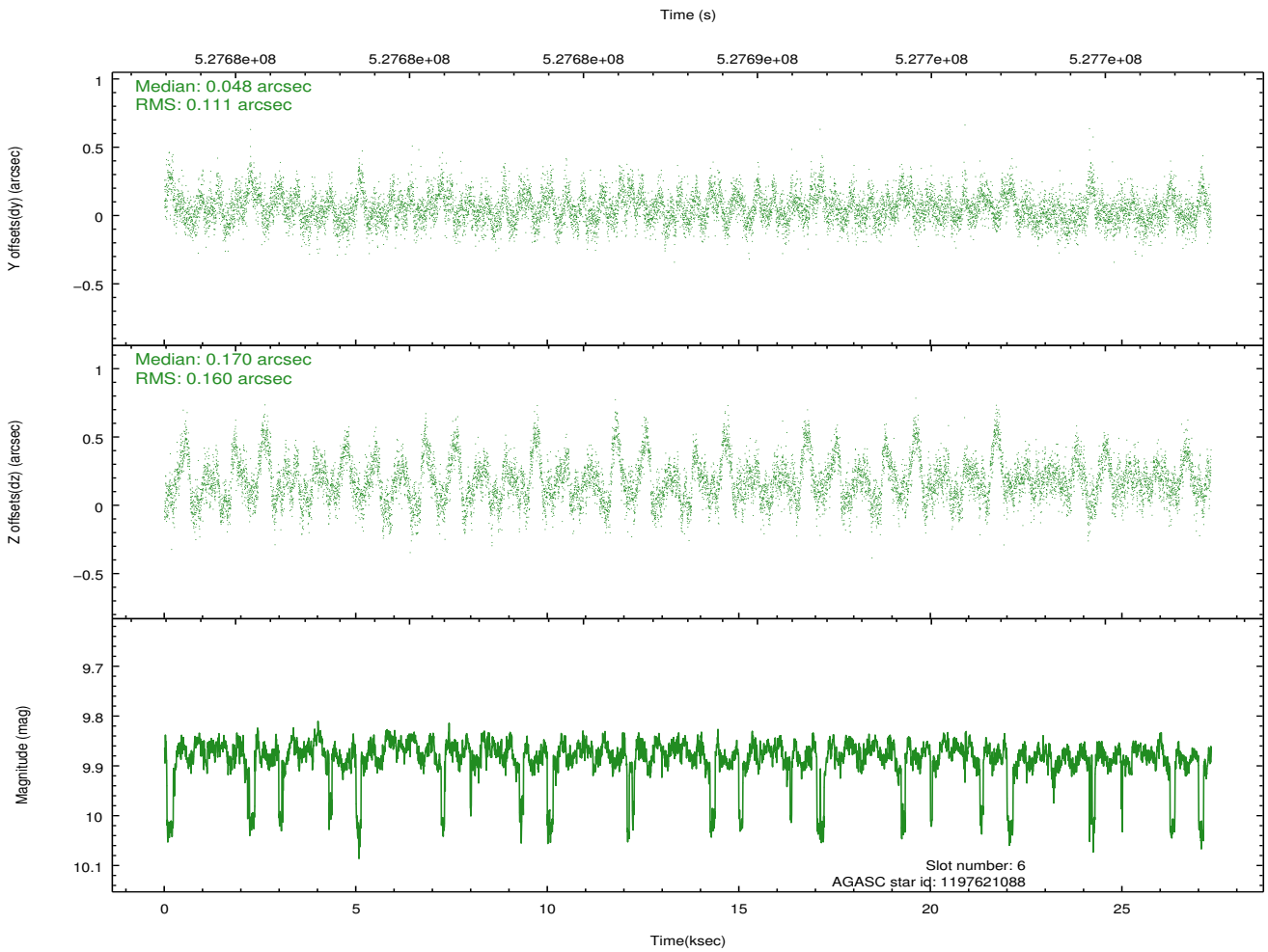
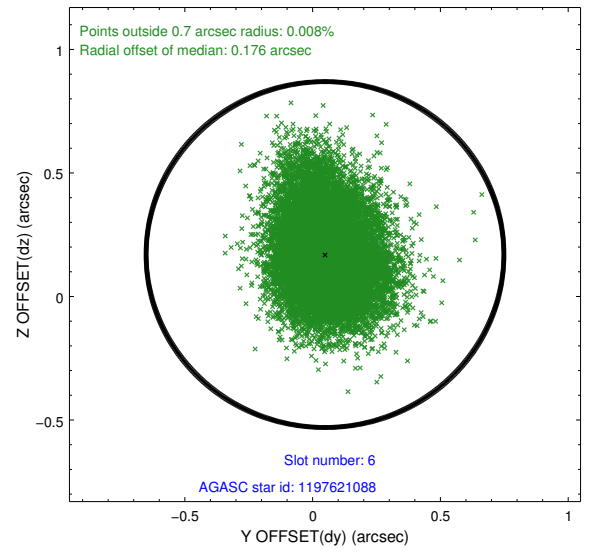
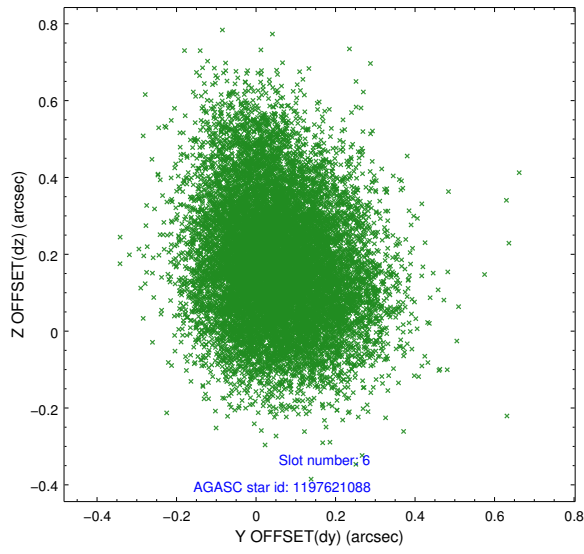
2.4.2 Slot 4



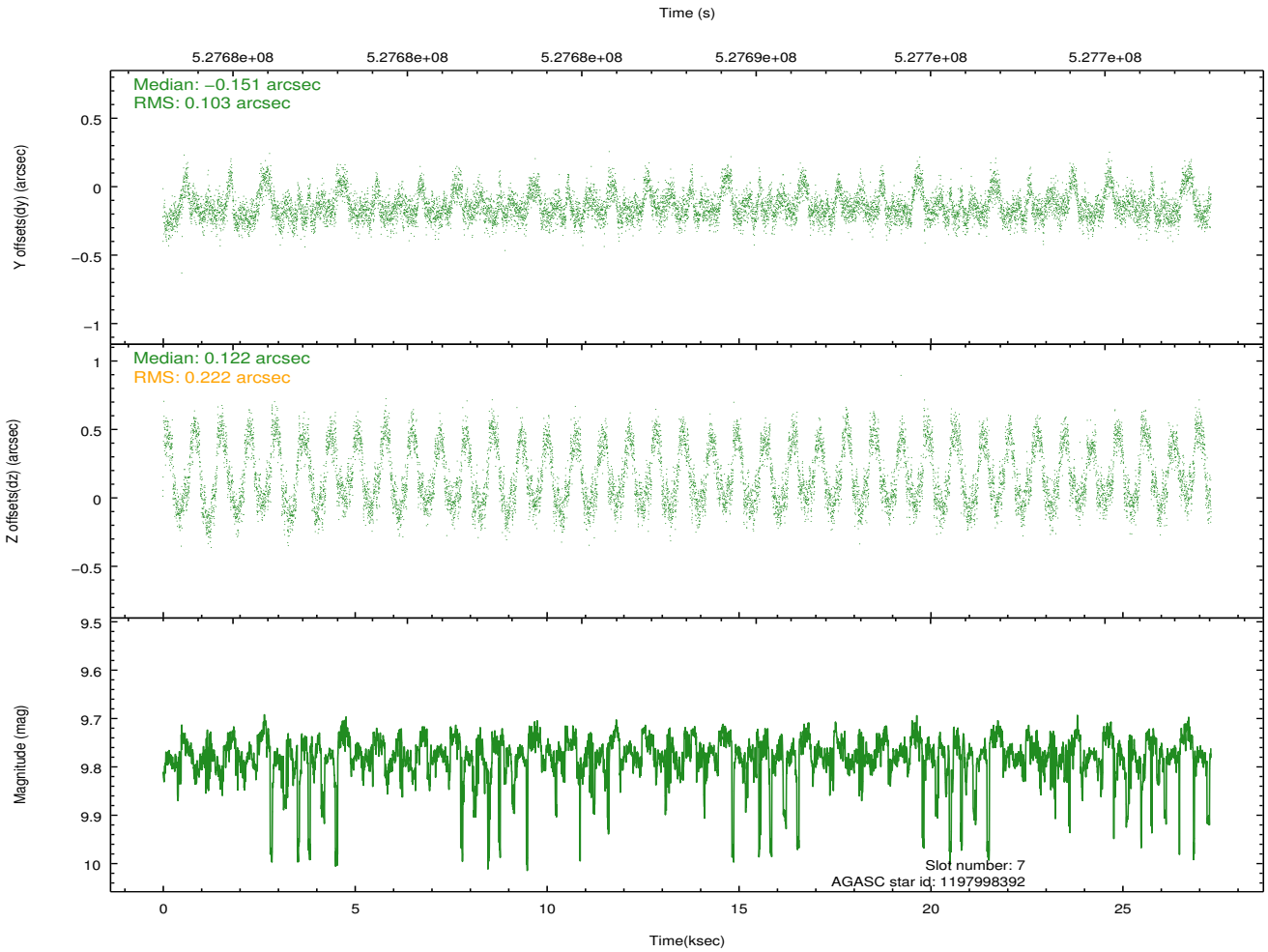
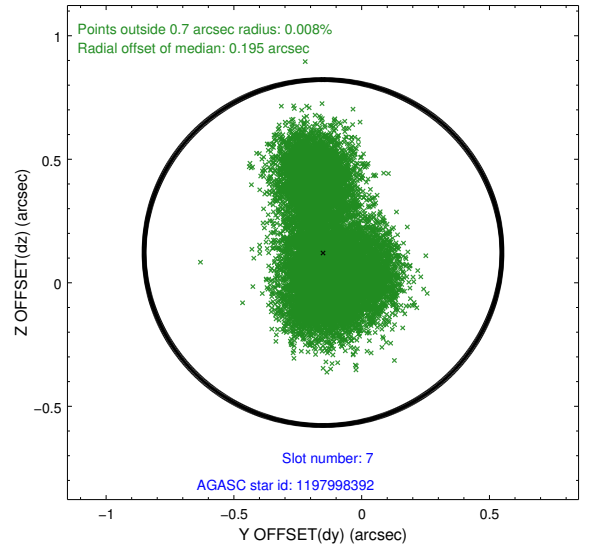
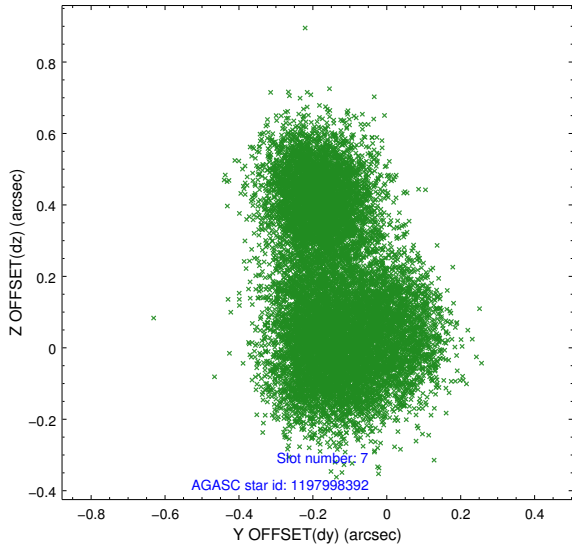
2.4.3 Slot 5



2.4.4 Slot 6

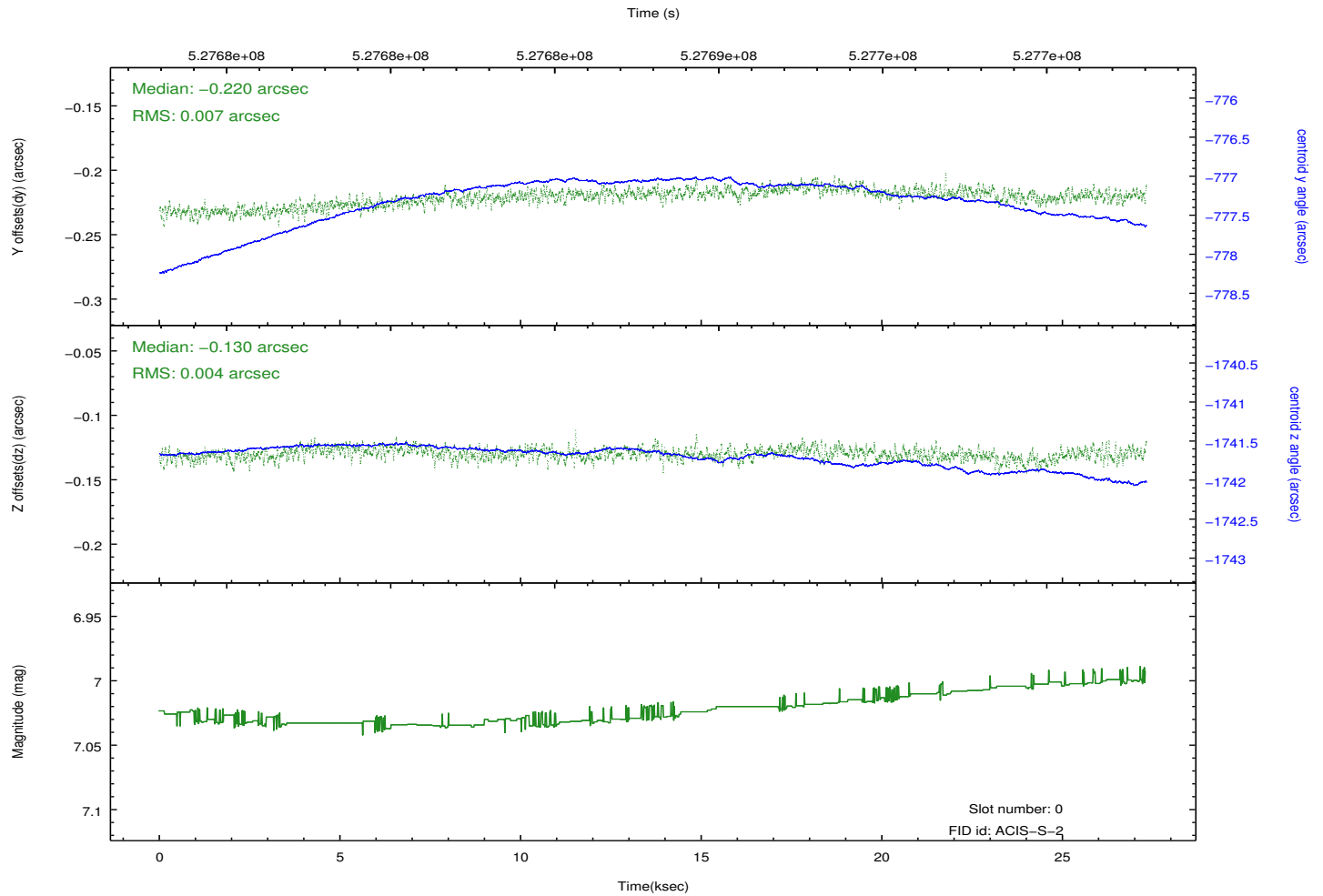
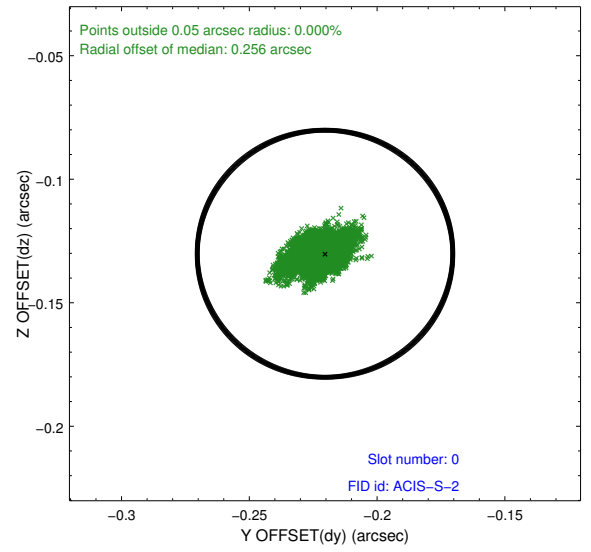
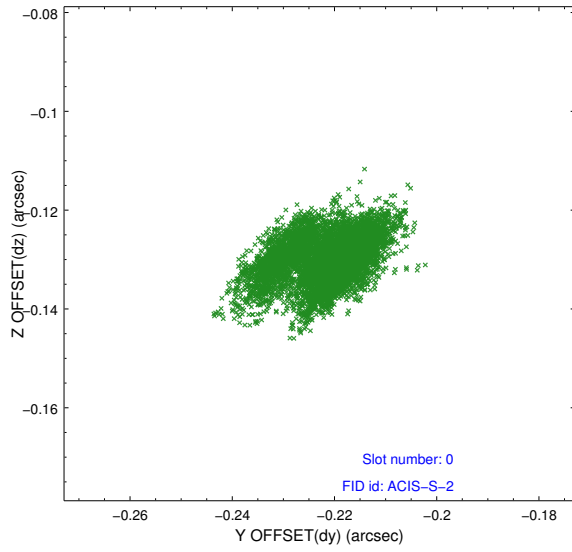


2.4.5 Slot 7

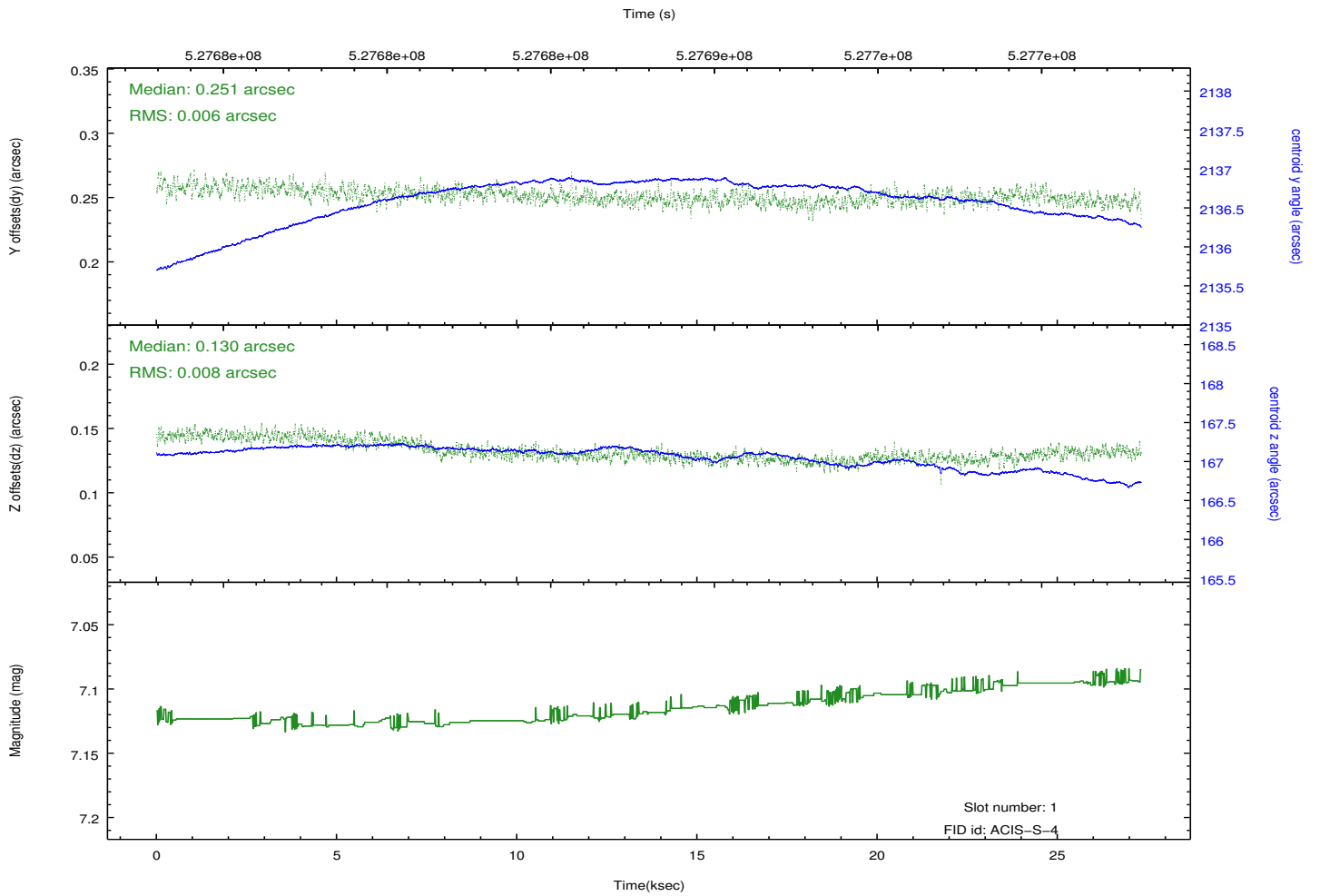
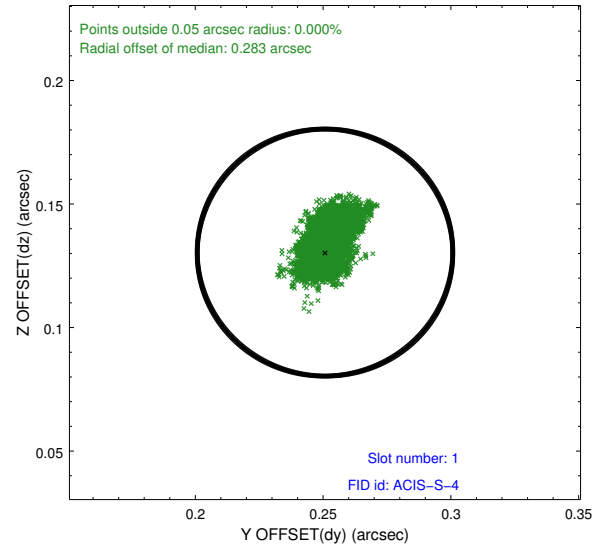
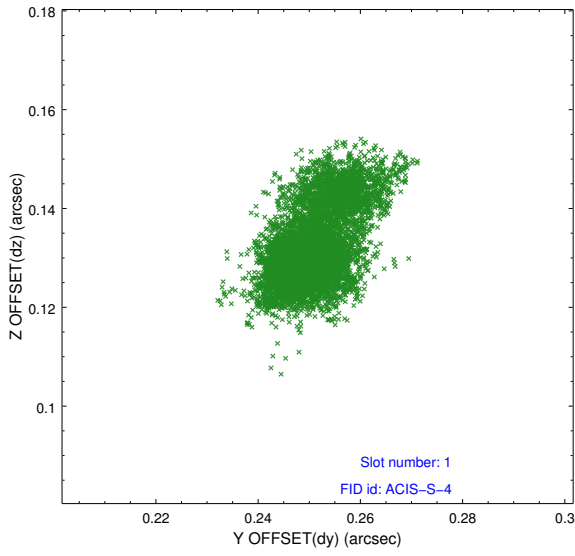


2.5 FID Slots

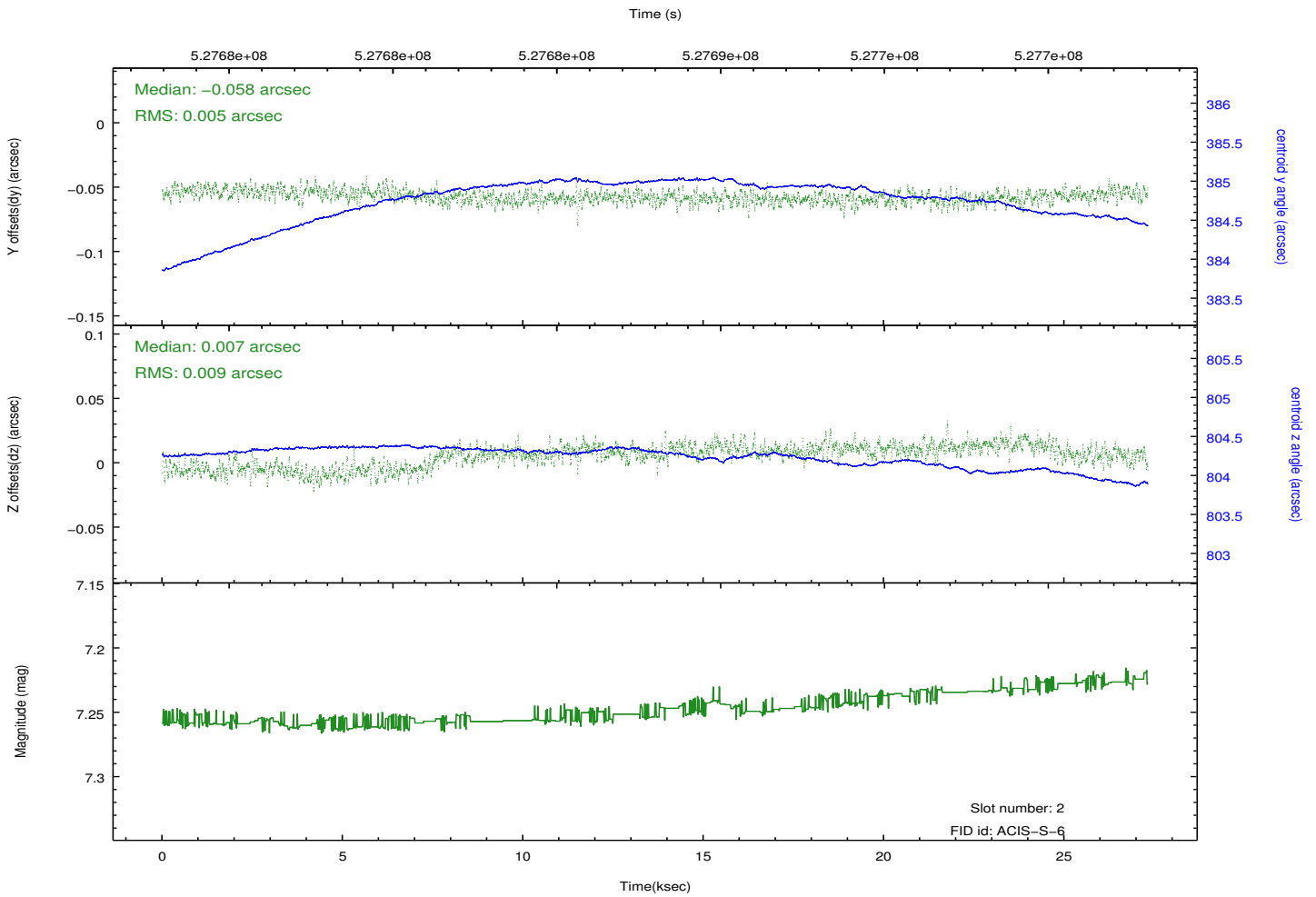
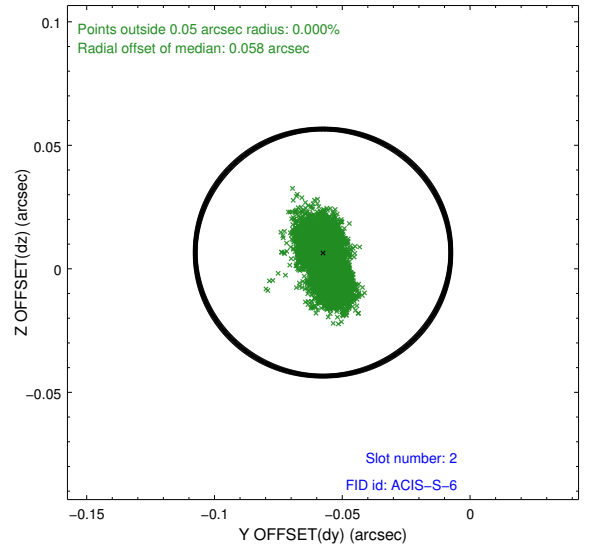
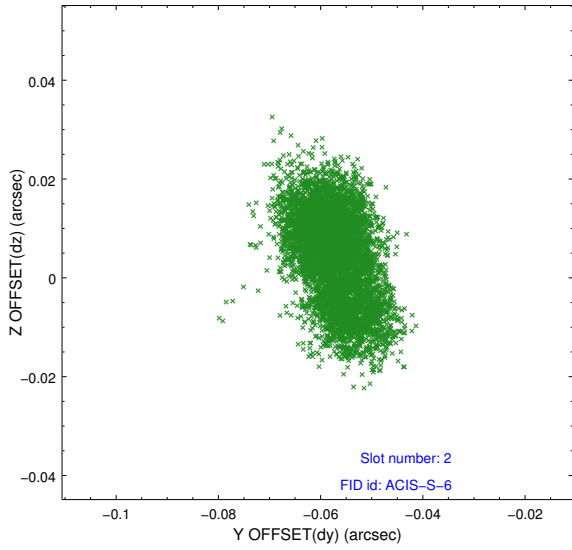
2.5.1 Slot 0



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)	2014.09.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.234686413825

A.2 Comments