

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1028 - L2 Version 4
Chandra X-Ray Center

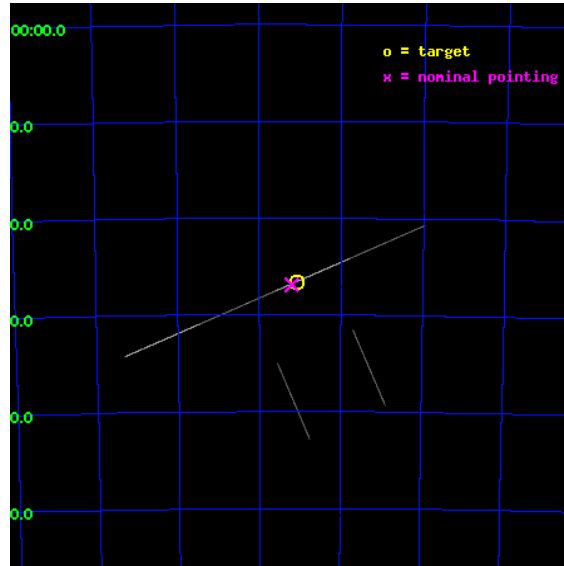
L2 Processing Date : Sep 3 2012

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1 Front

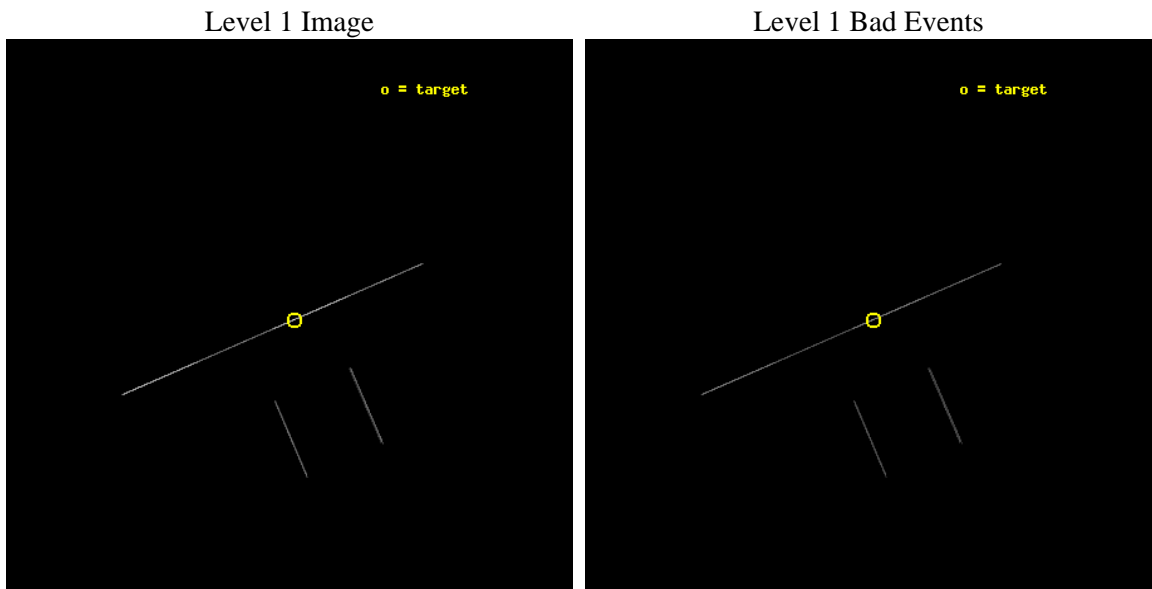
seq_num	400106	Sequence number
obs_id	1028	Observation id
title	HIGH RESOLUTION UV/X-RAY SPECTROSCOPY OF SMC X-1	Proposal title
observer	Dr. Saeqa Vrtilek	Principal investigator
object	SMC X-1	Source name
ra_targ	19.271667	Observer's specified target RA [deg]
dec_targ	-73.442944	Observer's specified target Dec [deg]
ra_nom	19.300402512587	Nominal RA [deg]
dec_nom	-73.448377304847	Nominal Dec [deg]
roll_nom	336.61286844832	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6325.0	Sum of GTIs [s]
livetime	6300.29296875	Livetime [s]
ontime2	6325.0	Sum of GTIs [s]
ontime3	6325.0	Sum of GTIs [s]
ontime5	6325.0	Sum of GTIs [s]
ontime6	6325.0	Sum of GTIs [s]
ontime7	6325.0	Sum of GTIs [s]
ontime8	6325.0	Sum of GTIs [s]
l2events	172591	Number of level 2 events



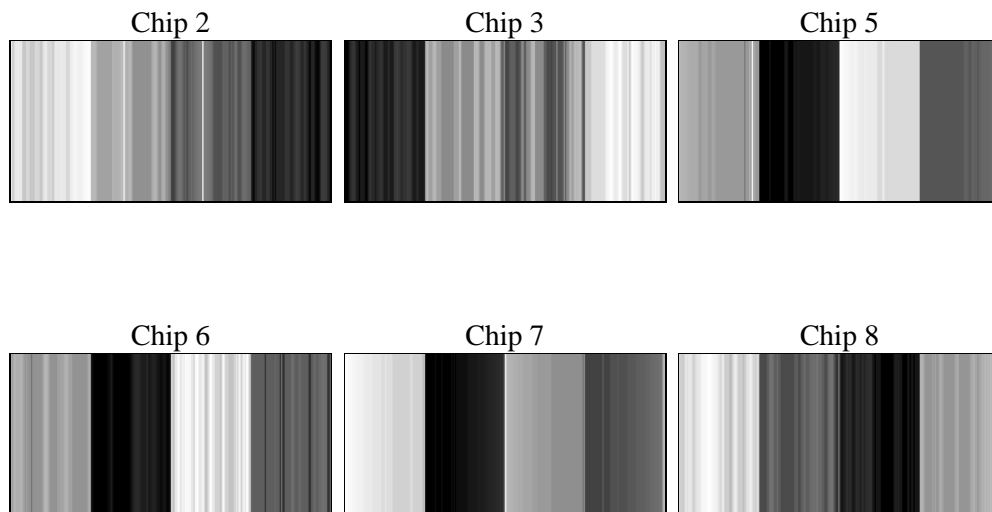
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6325.0	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	6325.0	Sum of GTIs [s]
date	2012-09-03T03:15:17	Date and time of file creation	ontime3	6325.0	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	6325.0	Sum of GTIs [s]
			ontime6	6325.0	Sum of GTIs [s]
			ontime7	6325.0	Sum of GTIs [s]
			ontime8	6325.0	Sum of GTIs [s]
			l1events	223592	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	8255	8419	82320	9862	97697	17039
rejected events	2025	2037	9024	2148	9012	3570
rejected %	24%	24%	10%	21%	9%	20%

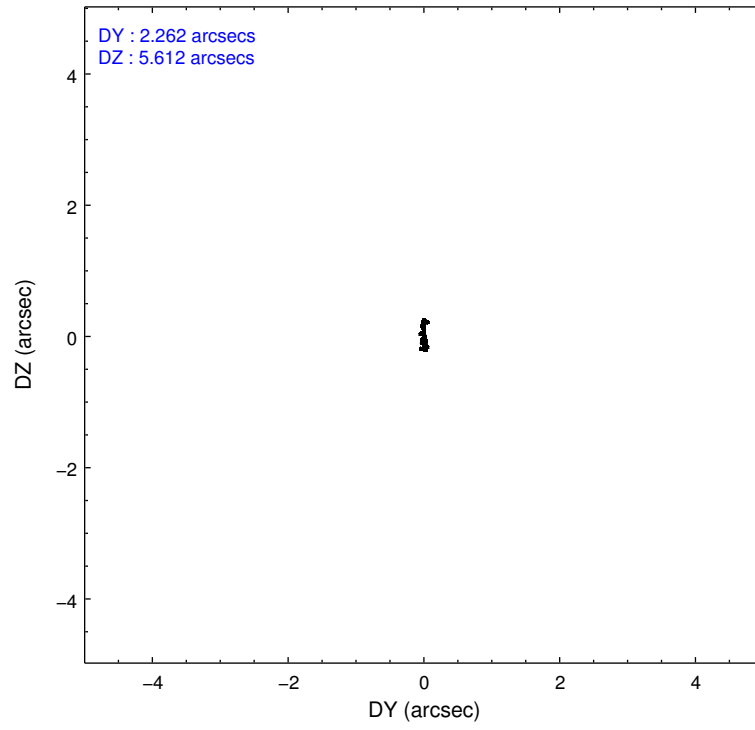
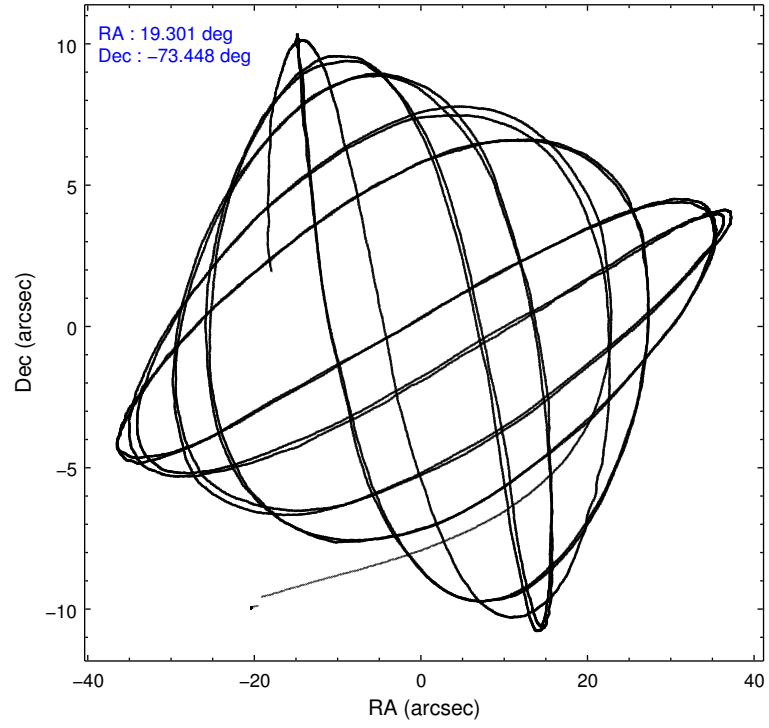
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	997	887	17484	1618	18542	2823
	12%	10%	21%	16%	18%	16%
grade 1 events	28	28	77	29	86	49
	0%	0%	0%	0%	0%	0%
grade 2 events	2541	2610	23562	3020	21554	4650
	30%	31%	28%	30%	22%	27%
grade 3 events	1004	1147	2845	1091	8616	1925
	12%	13%	3%	11%	8%	11%
grade 4 events	1069	1026	2867	1099	8440	1944
	12%	12%	3%	11%	8%	11%
grade 5 events	1265	1292	4250	1411	4984	2062
	15%	15%	5%	14%	5%	12%
grade 6 events	1351	1429	31235	1594	35475	3586
	16%	16%	37%	16%	36%	21%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

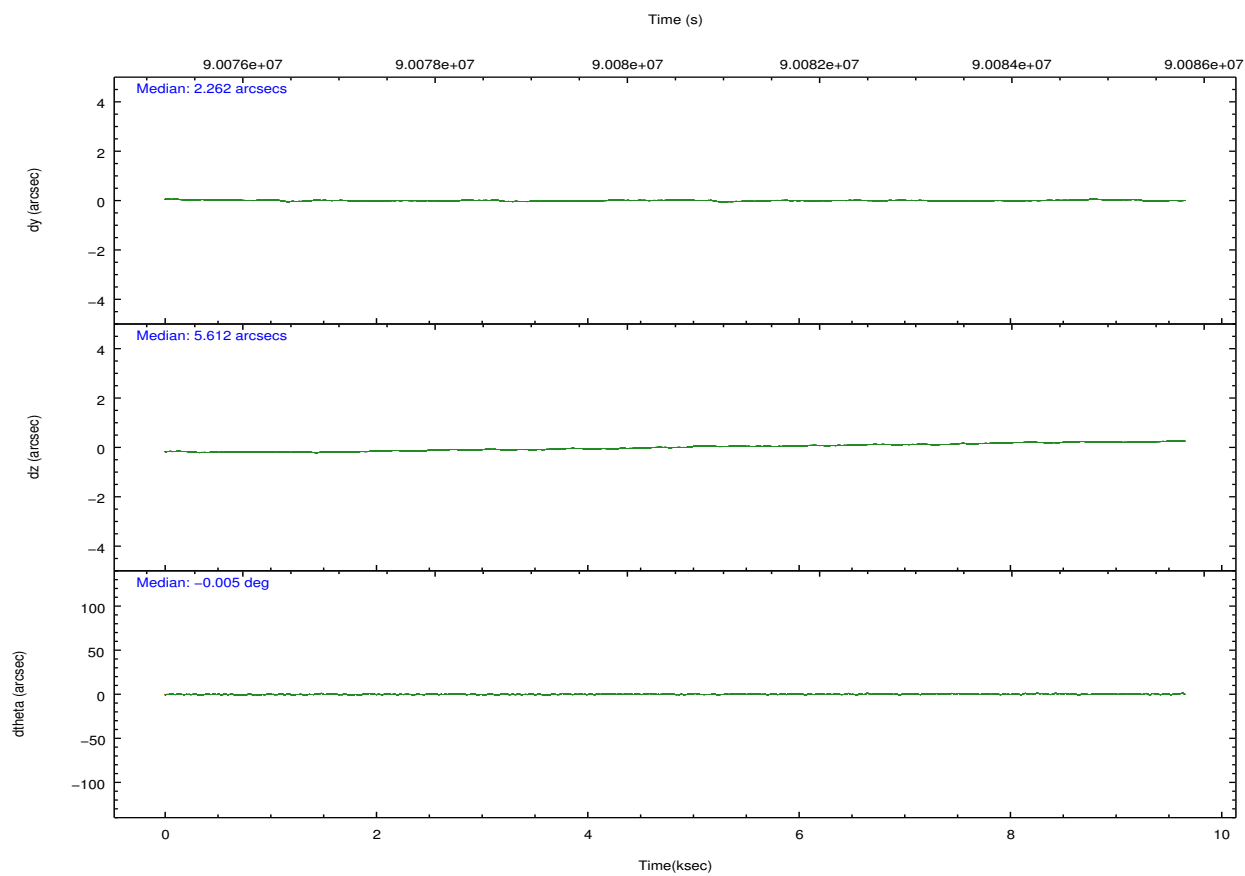
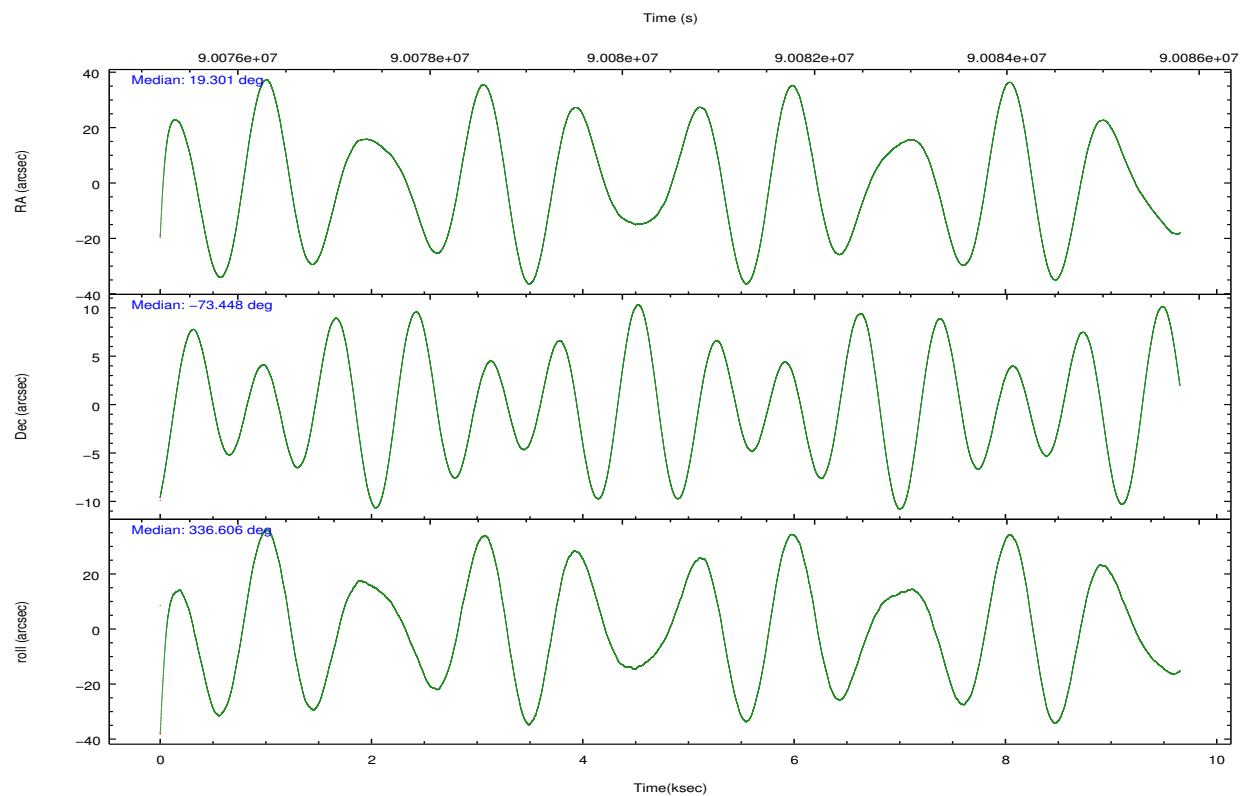
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	CC33_FAINT	CC33_FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	19.205146	19.30040251258722
[deg] Pointing Dec	-73.451745	-73.44837730484717
[deg] Pointing Roll	336.364947	336.6128684483214
[s] Window start time (MET)	90075604.184000	90075604.184000
[s] Window stop time (MET)	90082804.184000	90082804.184000
[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
Phase constraints	Y	Y
[d] Phase period	3.892000	3.892000
[d] Phase epoch (MJD)	50141.466800	50141.466800
Phase start	0.000000	0.000000
Phase end	0.800000	0.800000
Phase start error	0.050000	0.050000
Phase end error	0.050000	0.050000
[s] Observation start time (MET)	90076003.184000	90074977.18732899
Observation start date	2000-11-08T13:05:39	2000-11-08T12:49:37
[s] Observation end time (MET)	90082003.184000	90085817.58774

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0

2.3 Aspect



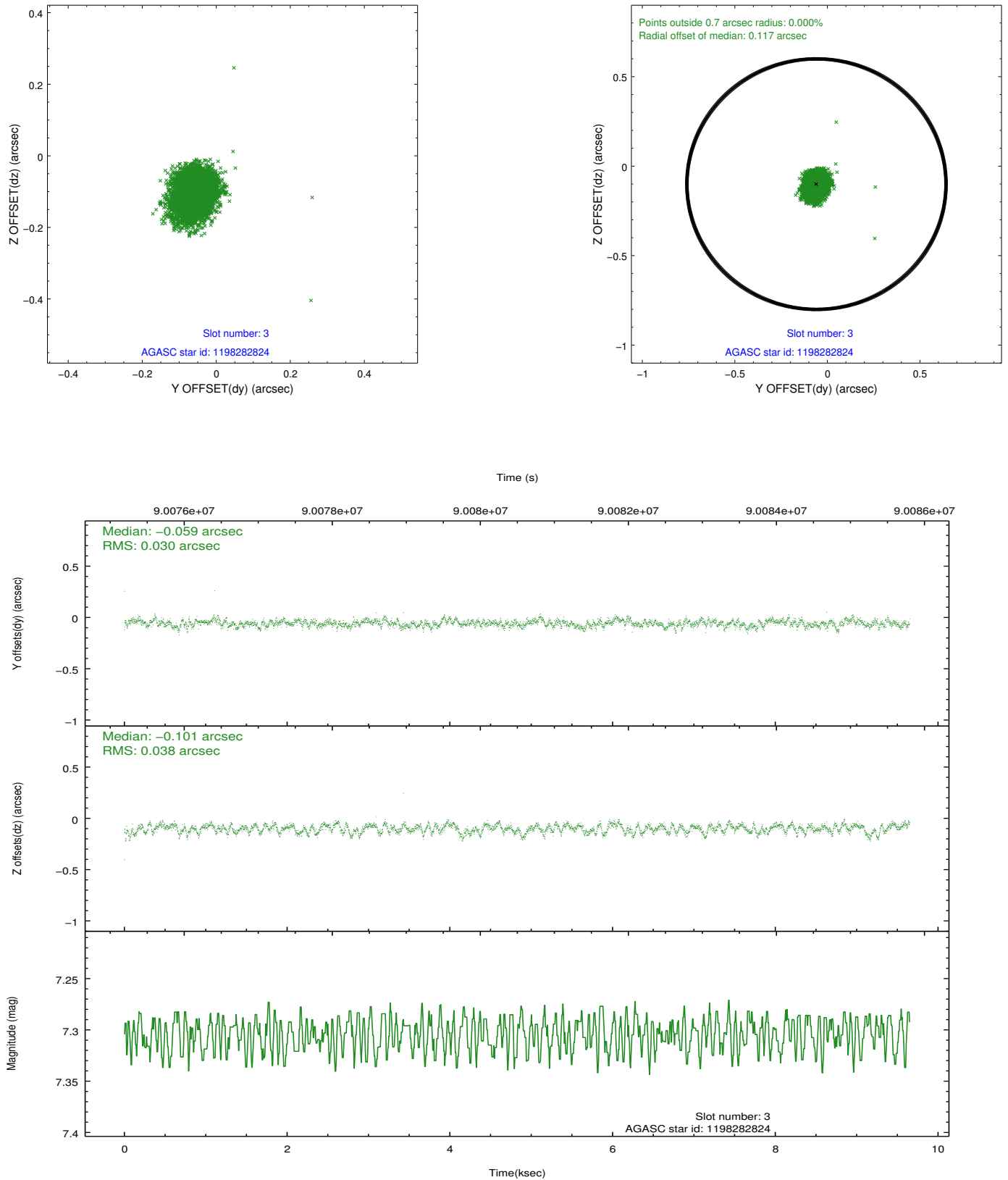


Slot Statistics

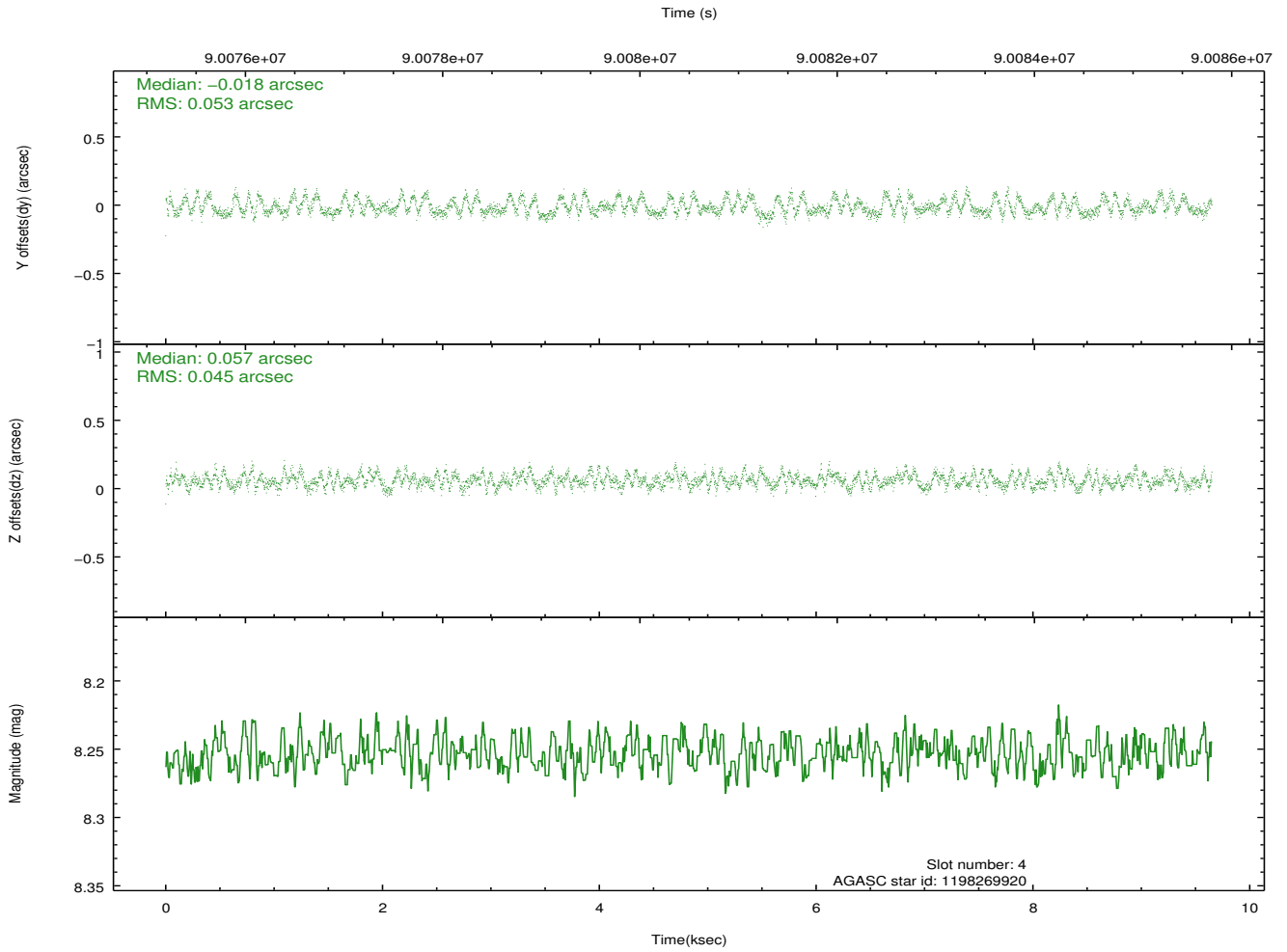
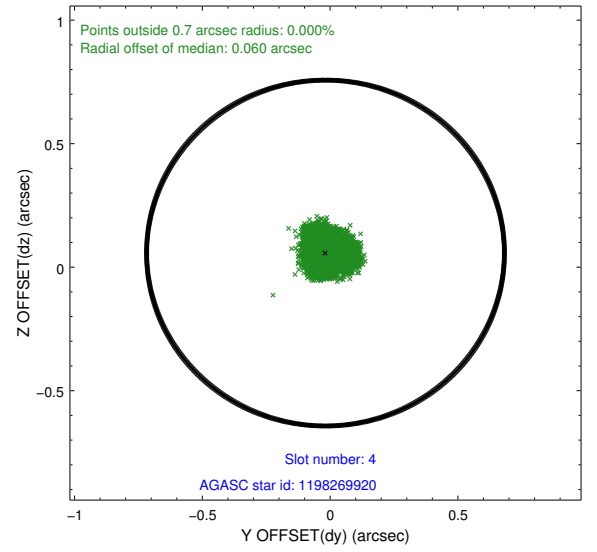
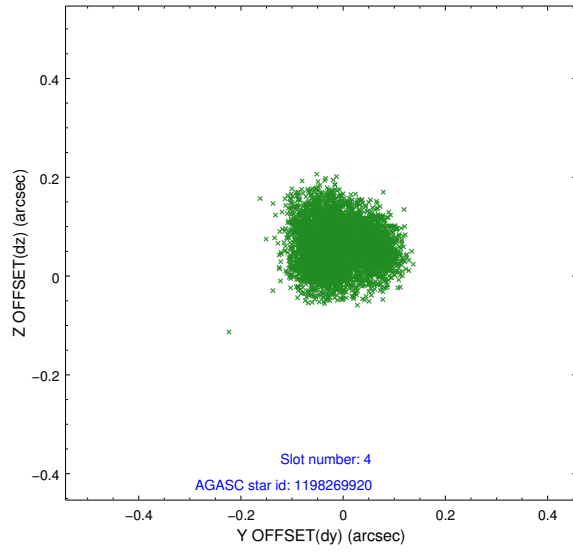
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2355	-0.049	-0.006	0.006	0.010	0.000000	0.000000	-754.90	-1726.77
1	FID	ACIS-S-4	7.20	2354	0.003	0.025	0.005	0.009	0.000000	0.000000	2158.14	181.23
2	FID	ACIS-S-5	7.23	2355	0.015	-0.010	0.006	0.010	0.000000	0.000000	-1807.00	175.42
3	GUIDE	1198282824	7.30	4709	-0.059	-0.101	0.051	0.083	18.044095	-73.907062	-400.10	-1976.92
4	GUIDE	1198269920	8.25	4709	-0.018	0.057	0.077	0.114	20.316466	-73.033728	469.53	1836.06
5	GUIDE	1198276744	8.61	4707	-0.012	-0.043	0.059	0.097	19.489008	-74.153493	1268.51	-2203.00
6	GUIDE	1198283120	9.34	4708	0.013	-0.007	0.078	0.128	18.724531	-73.257934	-735.94	436.60
7	GUIDE	1198268712	8.54	4704	0.065	0.096	0.056	0.091	21.961983	-73.269598	2379.02	1685.62

2.4 Star Slots

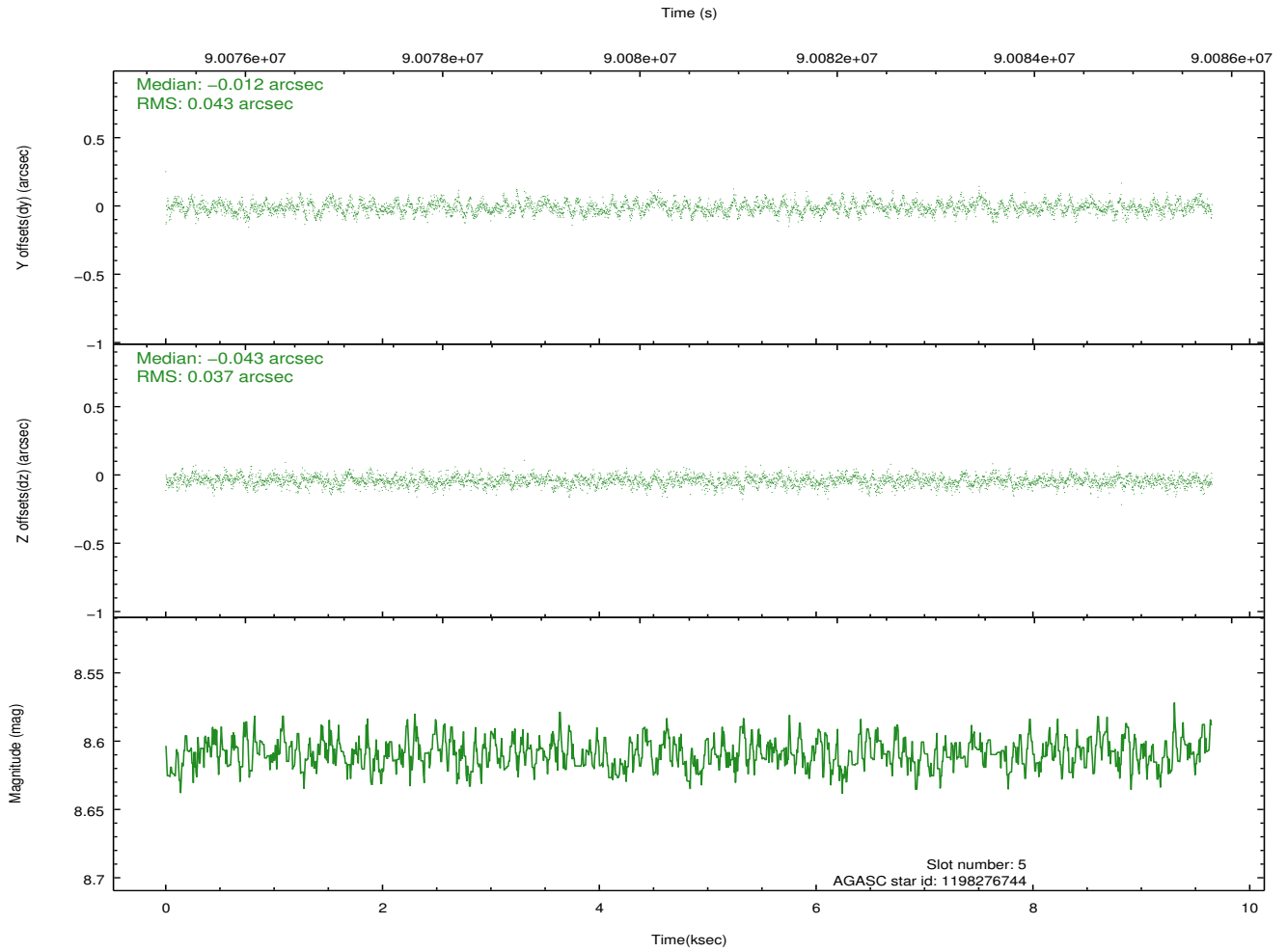
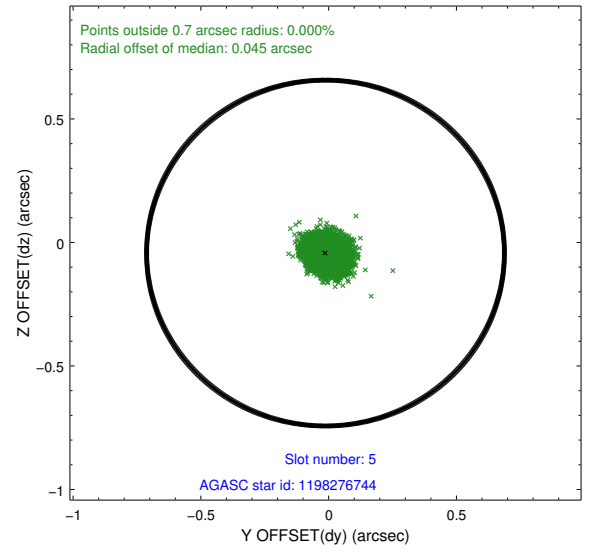
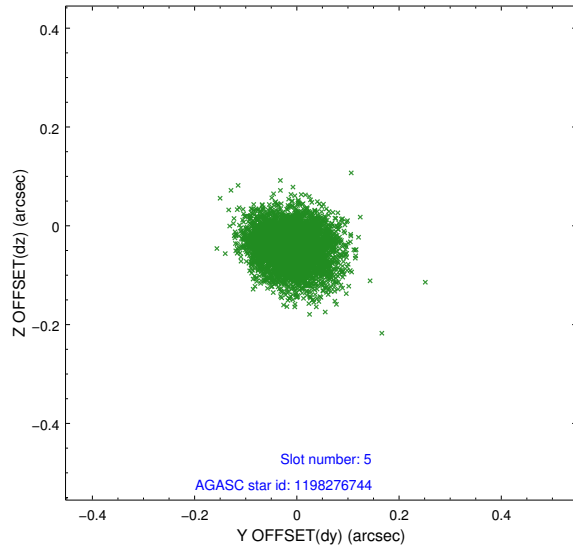
2.4.1 Slot 3



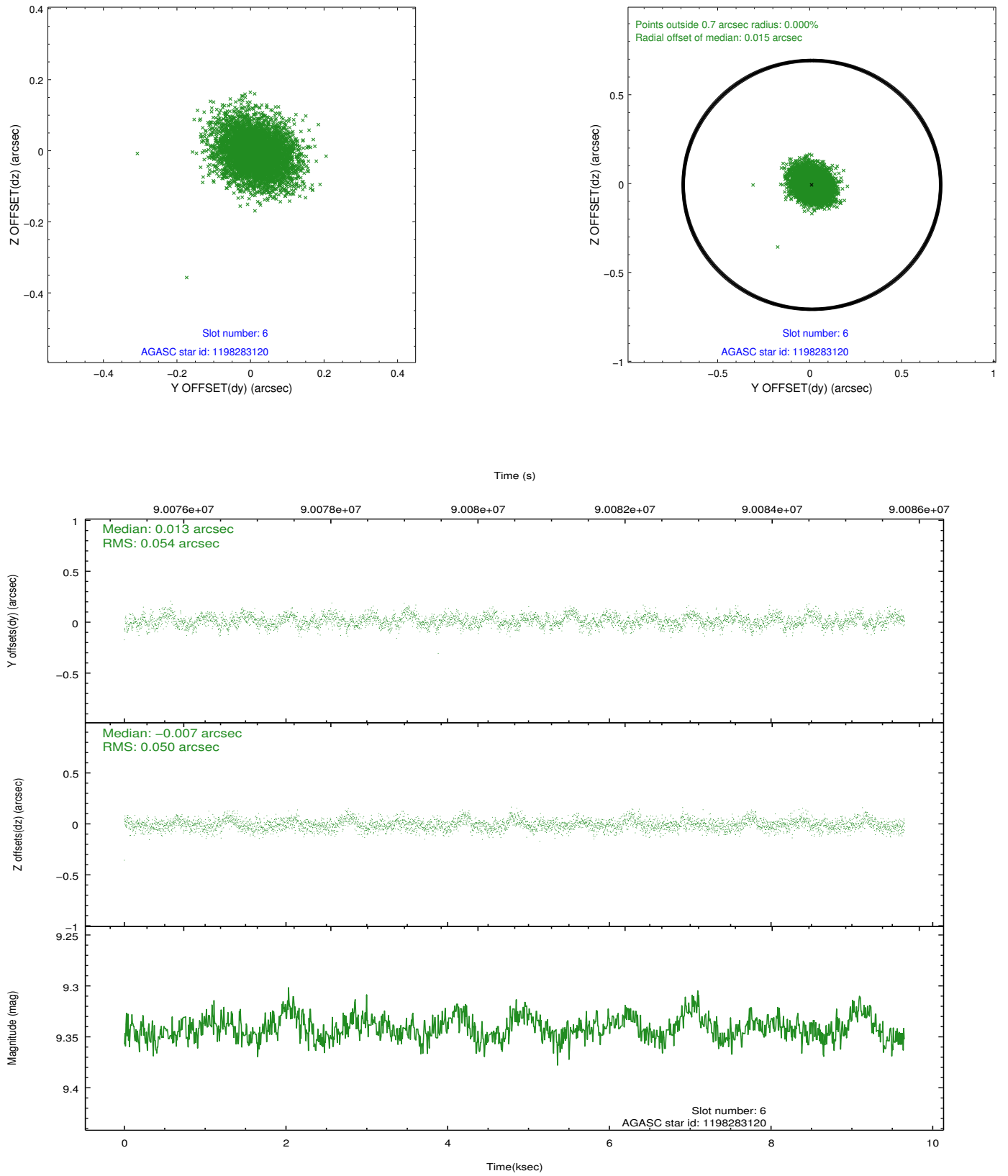
2.4.2 Slot 4



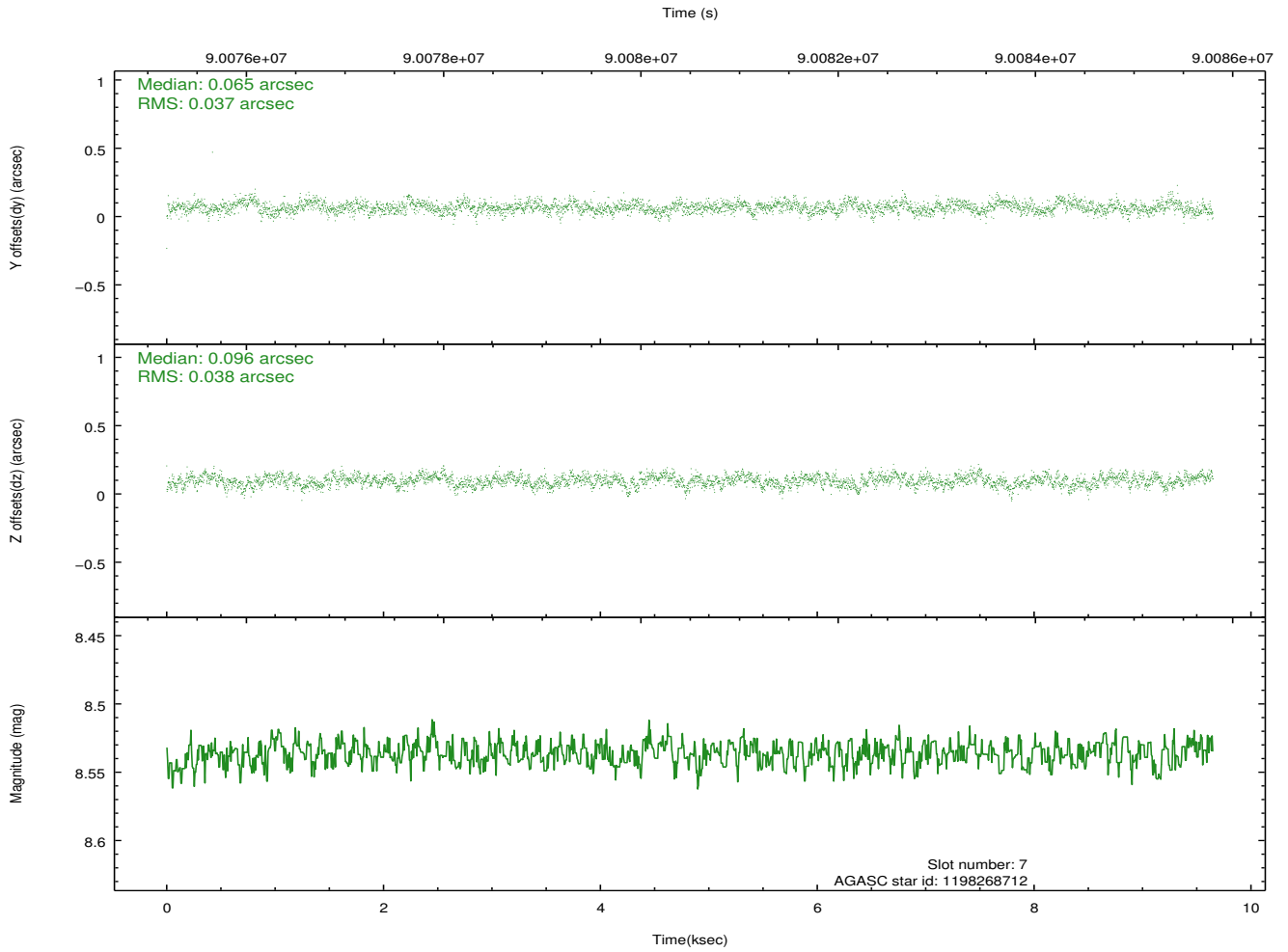
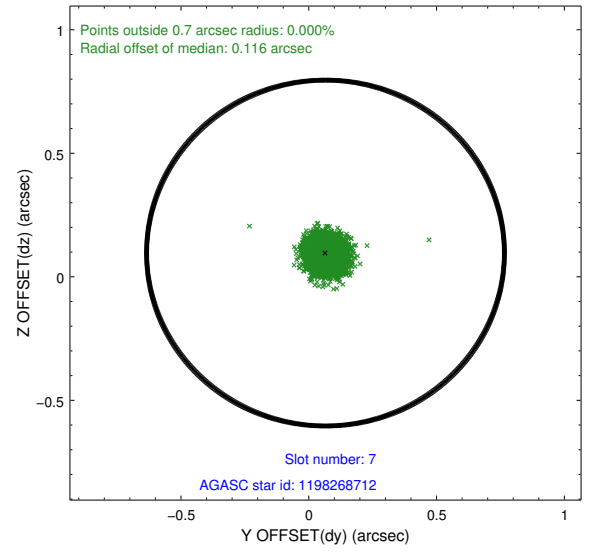
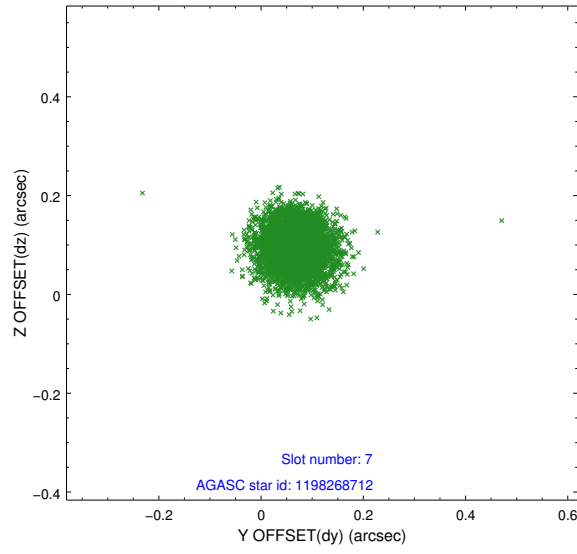
2.4.3 Slot 5



2.4.4 Slot 6

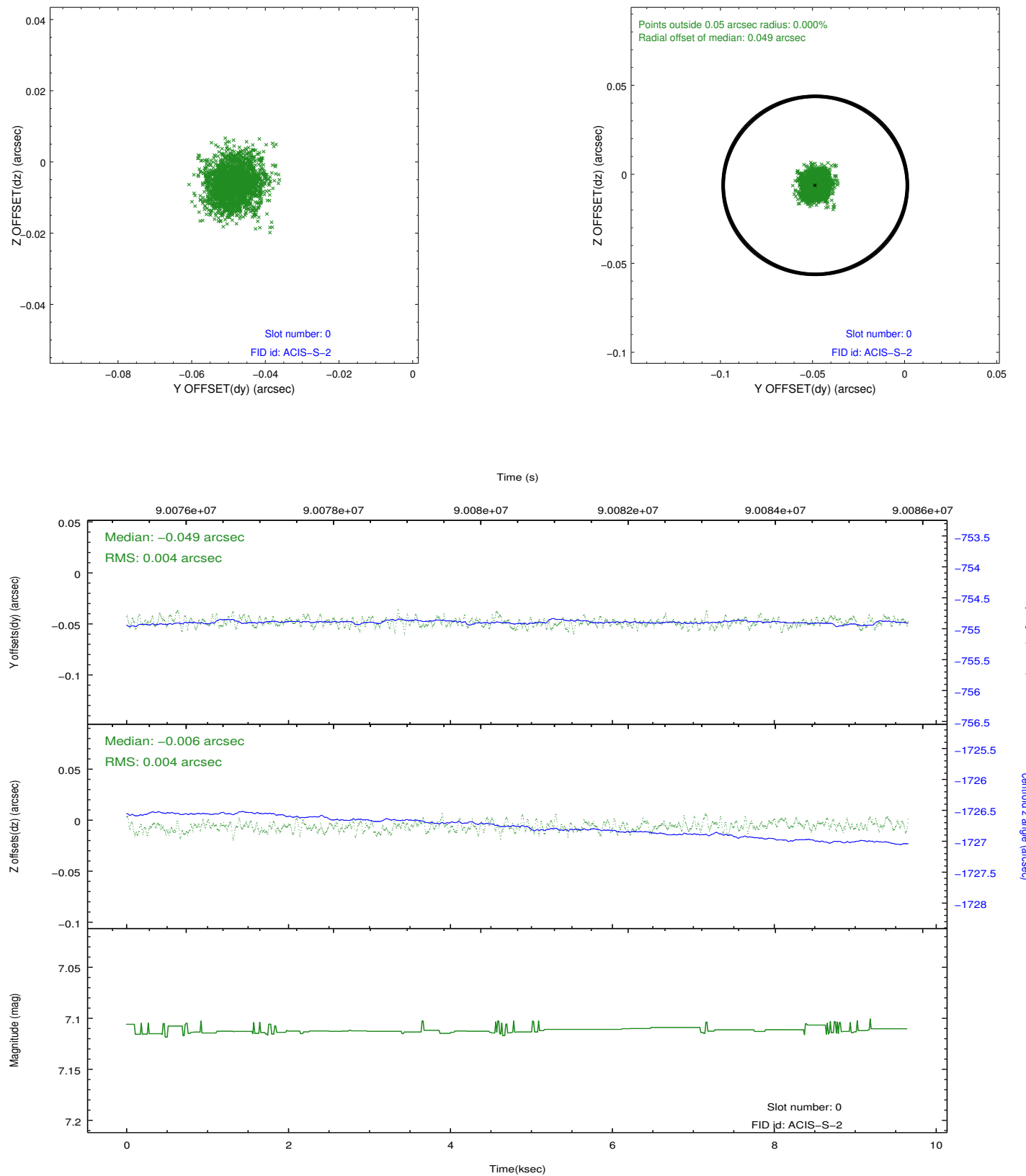


2.4.5 Slot 7

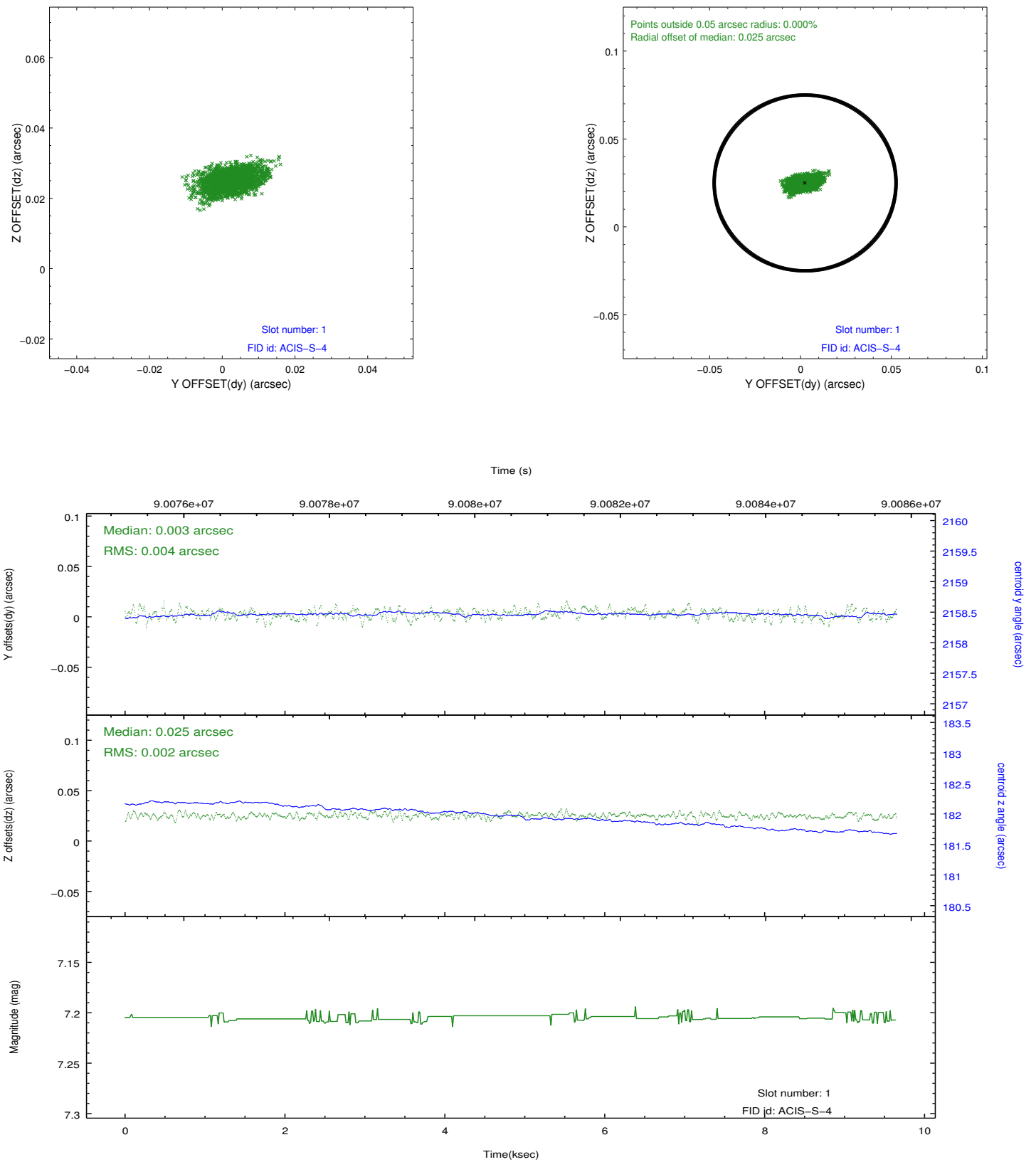


2.5 FID Slots

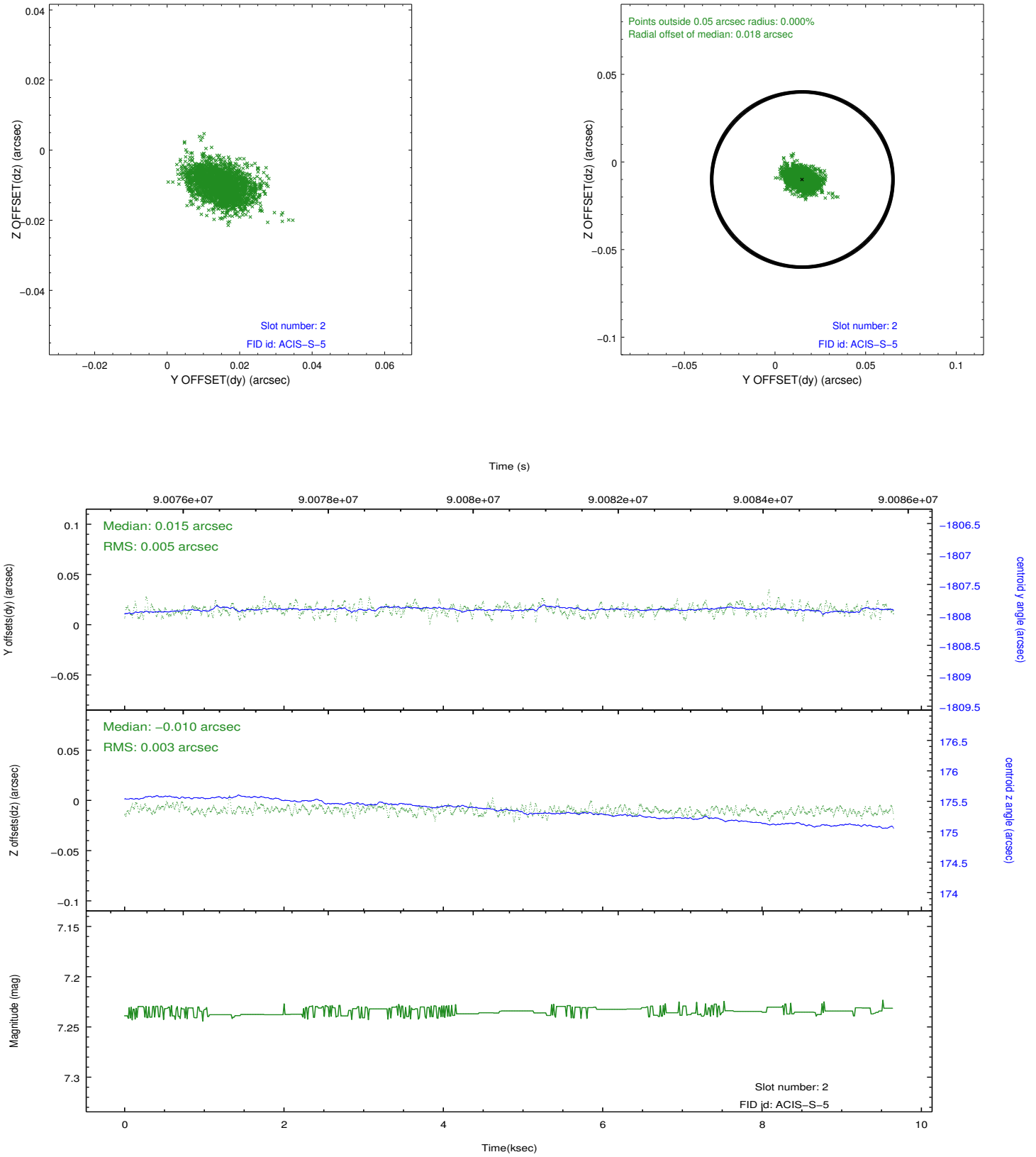
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.328

A.2 Comments

phase, window constraints: OK.