

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1027 - L2 Version 4
Chandra X-Ray Center

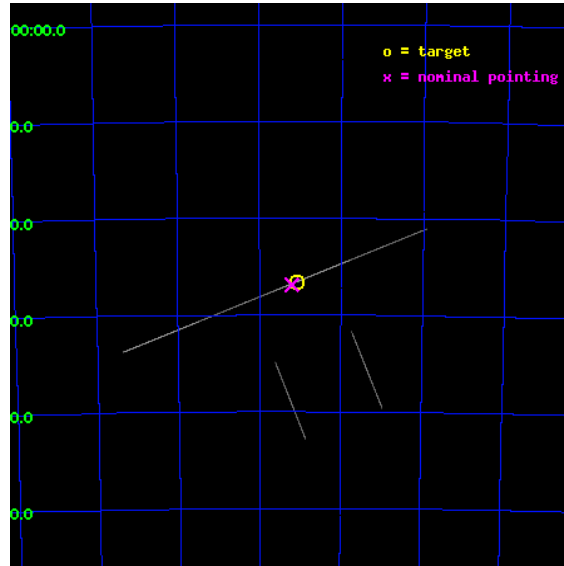
L2 Processing Date : Sep 3 2012

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1 Front

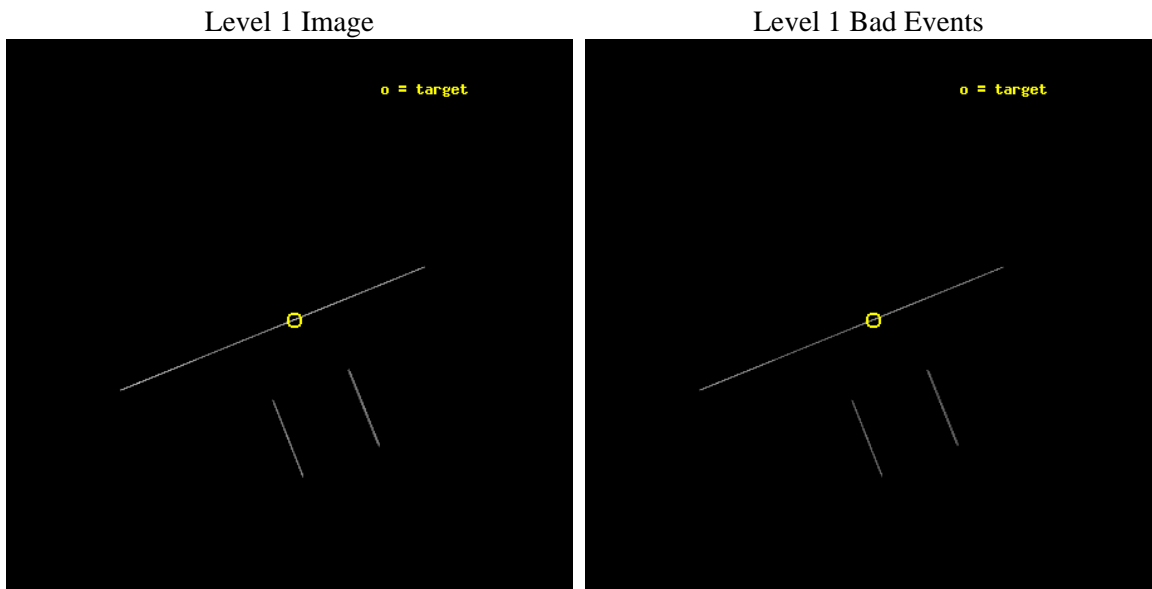
seq_num	400105	Sequence number
obs_id	1027	Observation id
title	HIGH RESOLUTION UV/X-RAY SPECTROSCOPY OF SMC X-1	Proposal title
observer	Dr. Saeqa Vrtilek	Principal investigator
object	SMC X-1	Source name
ra_targ	19.271667	Observer's specified target RA [deg]
dec_targ	-73.442944	Observer's specified target Dec [deg]
ra_nom	19.301034919886	Nominal RA [deg]
dec_nom	-73.448262676642	Nominal Dec [deg]
roll_nom	338.11147896718	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6133.5	Sum of GTIs [s]
livetime	6109.541015625	Livetime [s]
ontime2	6133.5	Sum of GTIs [s]
ontime3	6133.5	Sum of GTIs [s]
ontime5	6133.5	Sum of GTIs [s]
ontime6	6133.5	Sum of GTIs [s]
ontime7	6133.5	Sum of GTIs [s]
ontime8	6133.5	Sum of GTIs [s]
l2events	70815	Number of level 2 events



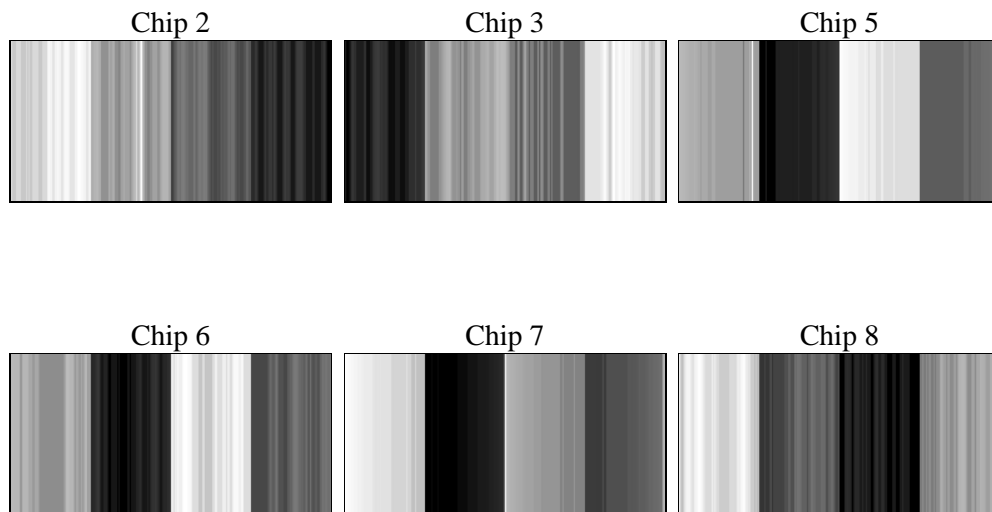
2 OBI

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	6133.5	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	6133.5	Sum of GTIs [s]
date	2012-09-03T02:46:00	Date and time of file creation	ontime3	6133.5	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	6133.5	Sum of GTIs [s]
			ontime6	6133.5	Sum of GTIs [s]
			ontime7	6133.5	Sum of GTIs [s]
			ontime8	6133.5	Sum of GTIs [s]
			l1events	127686	Number of level 1 events

2.1.4 Events

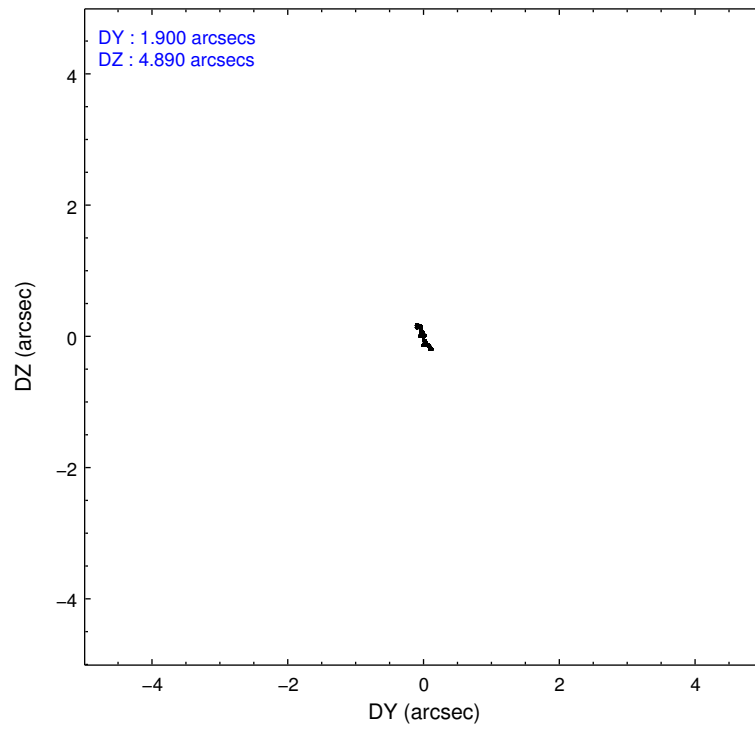
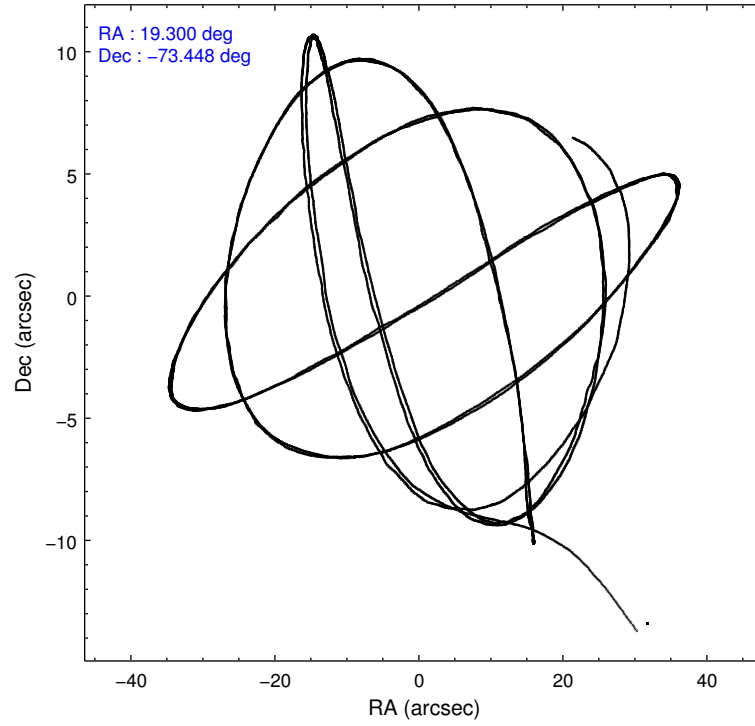
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	8965	9462	39753	10199	41441	17866
rejected events	3313	3474	14087	3650	11138	6368
rejected %	36%	36%	35%	35%	26%	35%

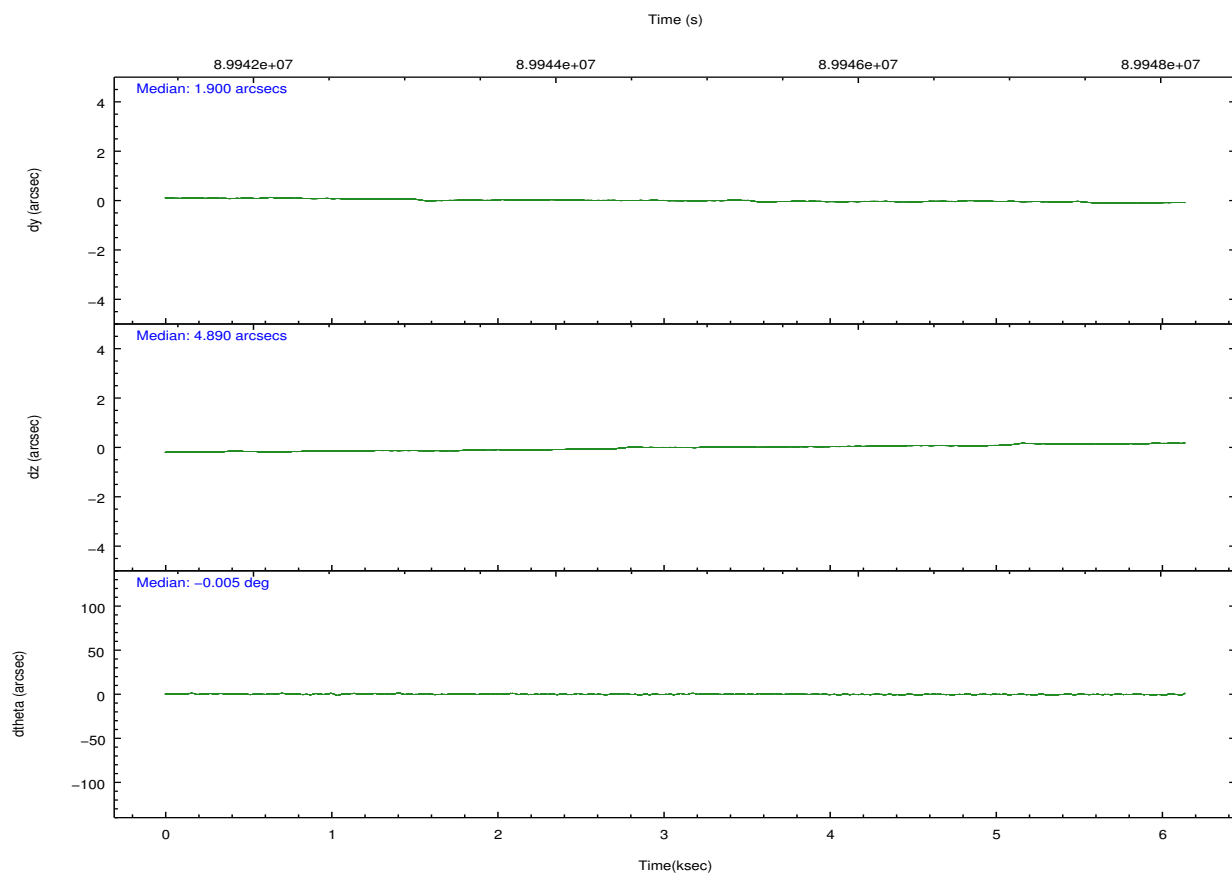
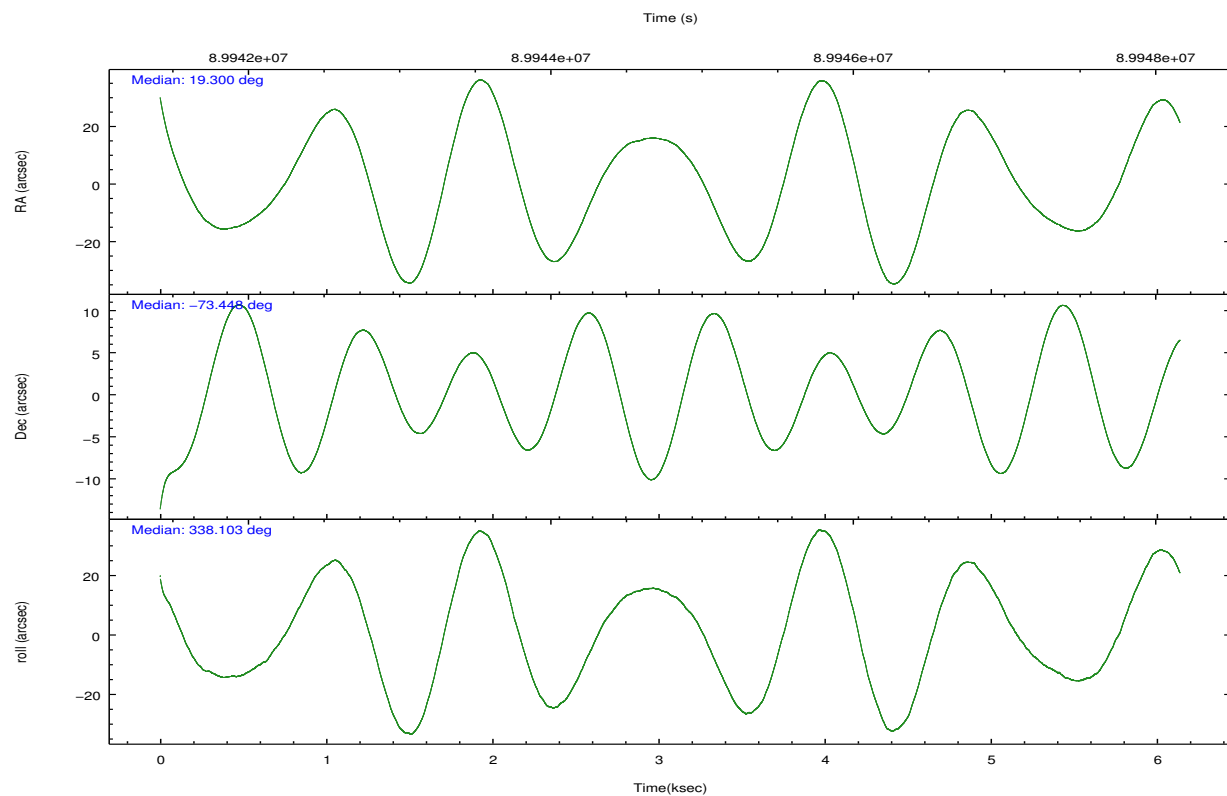
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	979	984	8566	1552	6468	2895
	10%	10%	21%	15%	15%	16%
grade 1 events	21	32	57	38	94	42
	0%	0%	0%	0%	0%	0%
grade 2 events	2614	2797	9694	2844	8868	4555
	29%	29%	24%	27%	21%	25%
grade 3 events	1164	1412	909	1222	3449	1945
	12%	14%	2%	11%	8%	10%
grade 4 events	1224	1157	893	1126	3468	1918
	13%	12%	2%	11%	8%	10%
grade 5 events	1417	1478	3920	1671	4952	2424
	15%	15%	9%	16%	11%	13%
grade 6 events	1546	1602	15714	1746	14142	4087
	17%	16%	39%	17%	34%	22%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	19.205964	19.30103491988598	Subarray requested	NONE	NONE
[deg] Pointing Dec	-73.452234	-73.44826267664179	Alternating exposures requested	N	N
[deg] Pointing Roll	337.863729	338.1114789671772	[s] Primary exposure time	0.000000	0
[s] Window start time (MET)	89941084.184000	89941084.184000			
[s] Window stop time (MET)	89948284.184000	89948284.184000			
[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)	89941856.184000	89939765.332213			
Observation start date	2000-11-06T23:49:52	2000-11-06T23:16:05			
[s] Observation end time (MET)	89947856.184000	89948512.68254399			

2.3 Aspect



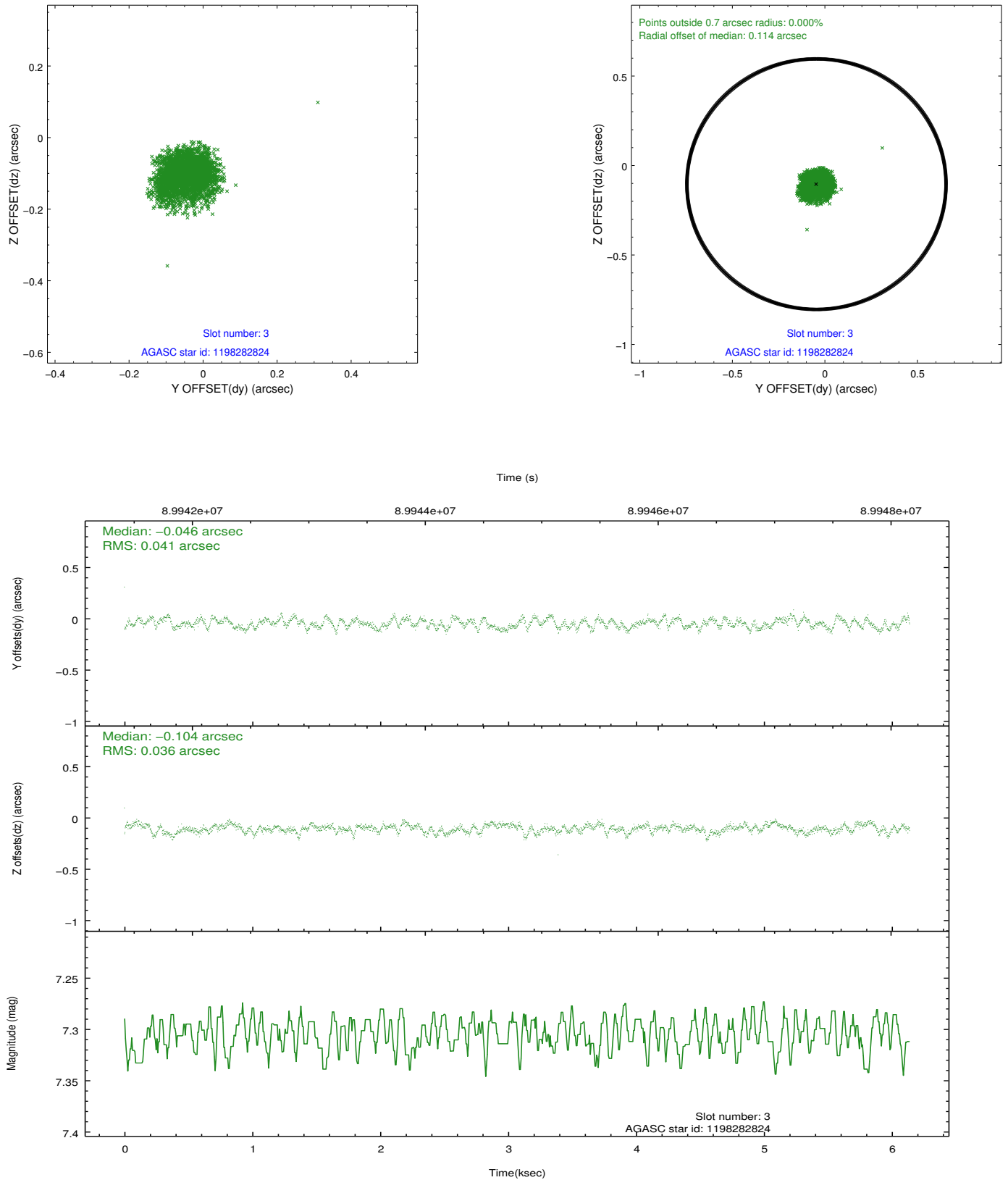


Slot Statistics

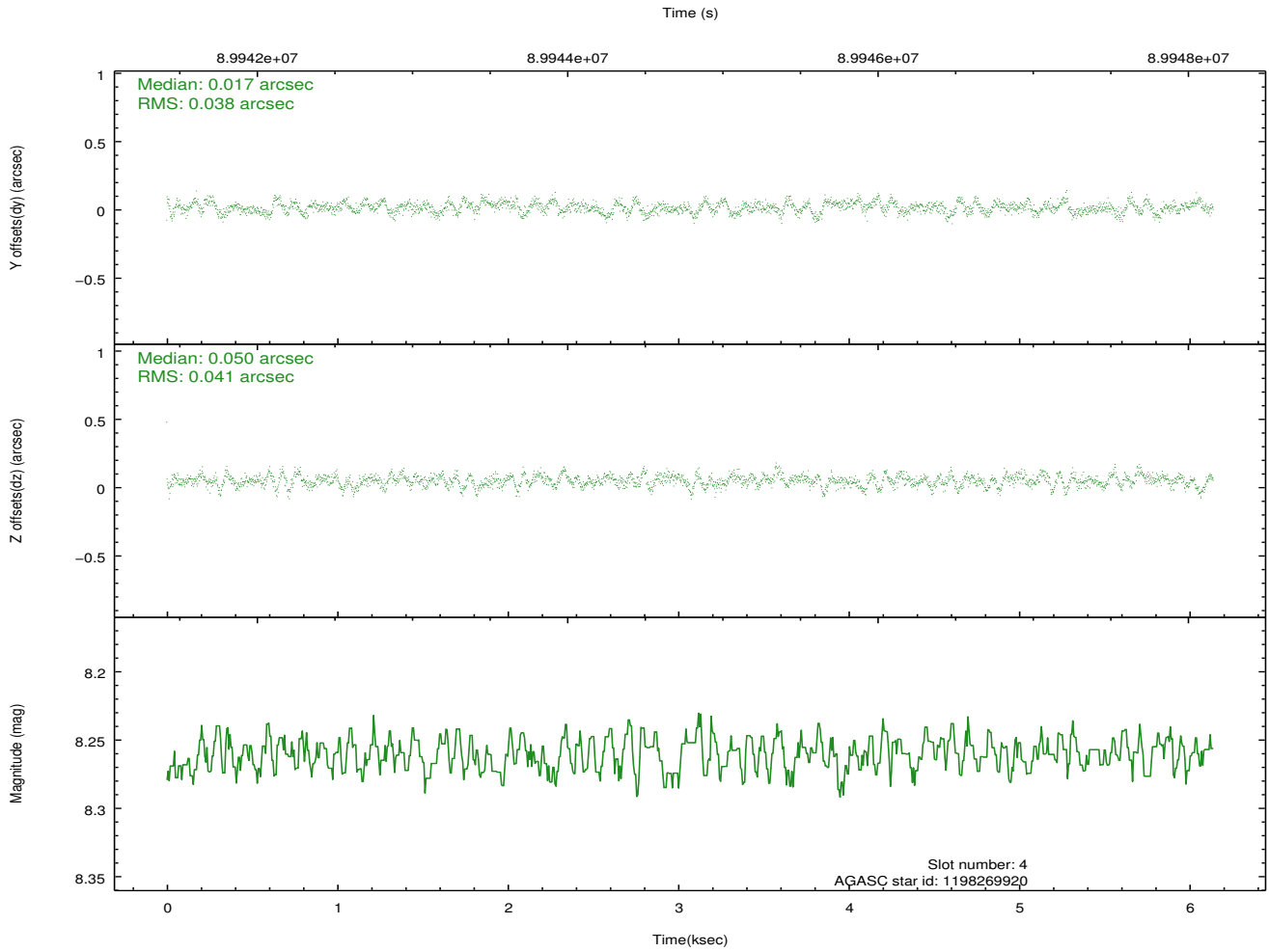
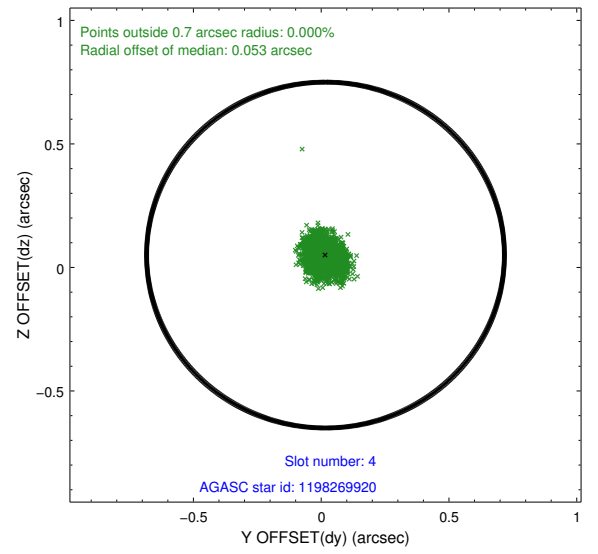
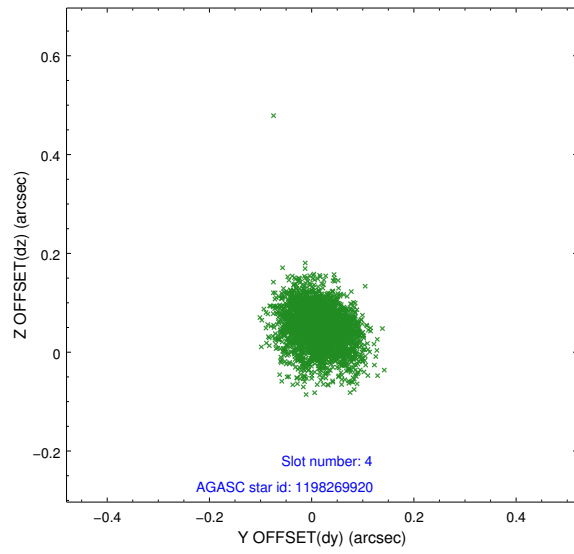
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1498	-0.042	-0.009	0.007	0.011	0.000000	0.000000	-754.53	-1726.00
1	FID	ACIS-S-4	7.20	1498	-0.006	0.023	0.006	0.011	0.000000	0.000000	2158.32	181.56
2	FID	ACIS-S-5	7.24	1498	0.018	-0.005	0.007	0.011	0.000000	0.000000	-1806.10	176.25
3	GUIDE	1198282824	7.30	2996	-0.046	-0.104	0.059	0.092	18.044095	-73.907062	-452.34	-1963.60
4	GUIDE	1198269920	8.26	2996	0.017	0.050	0.059	0.098	20.316466	-73.033728	516.64	1825.09
5	GUIDE	1198276744	8.61	2995	-0.027	-0.008	0.066	0.102	19.489008	-74.153493	1209.83	-2232.96
6	GUIDE	1198283120	9.34	2995	0.046	-0.001	0.081	0.134	18.724531	-73.257934	-724.80	457.61
7	GUIDE	1198268712	8.53	2995	0.012	0.066	0.064	0.106	21.961983	-73.269598	2421.43	1625.07

2.4 Star Slots

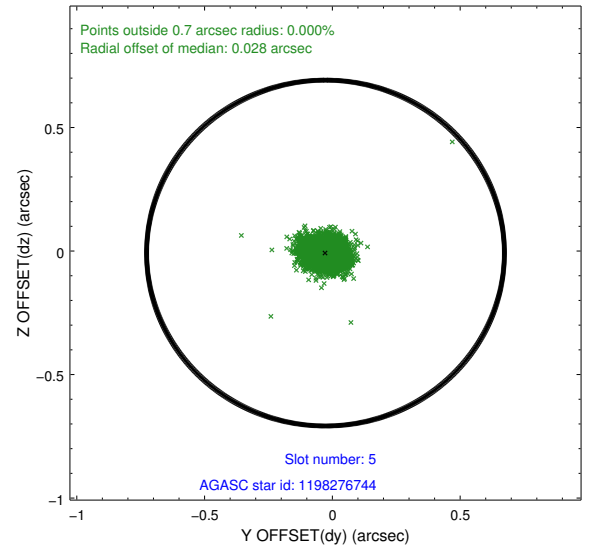
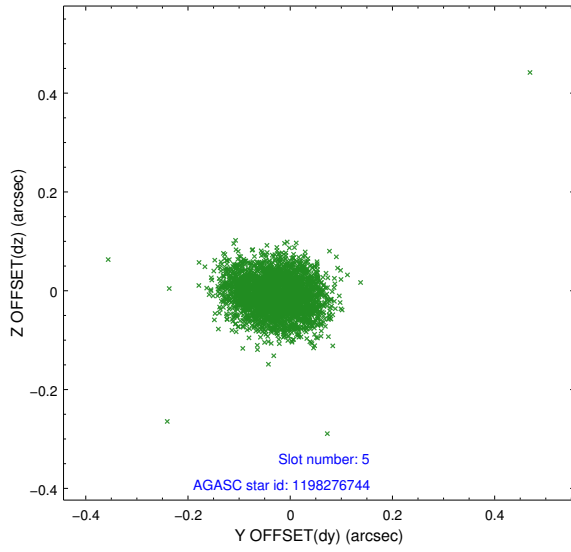
2.4.1 Slot 3



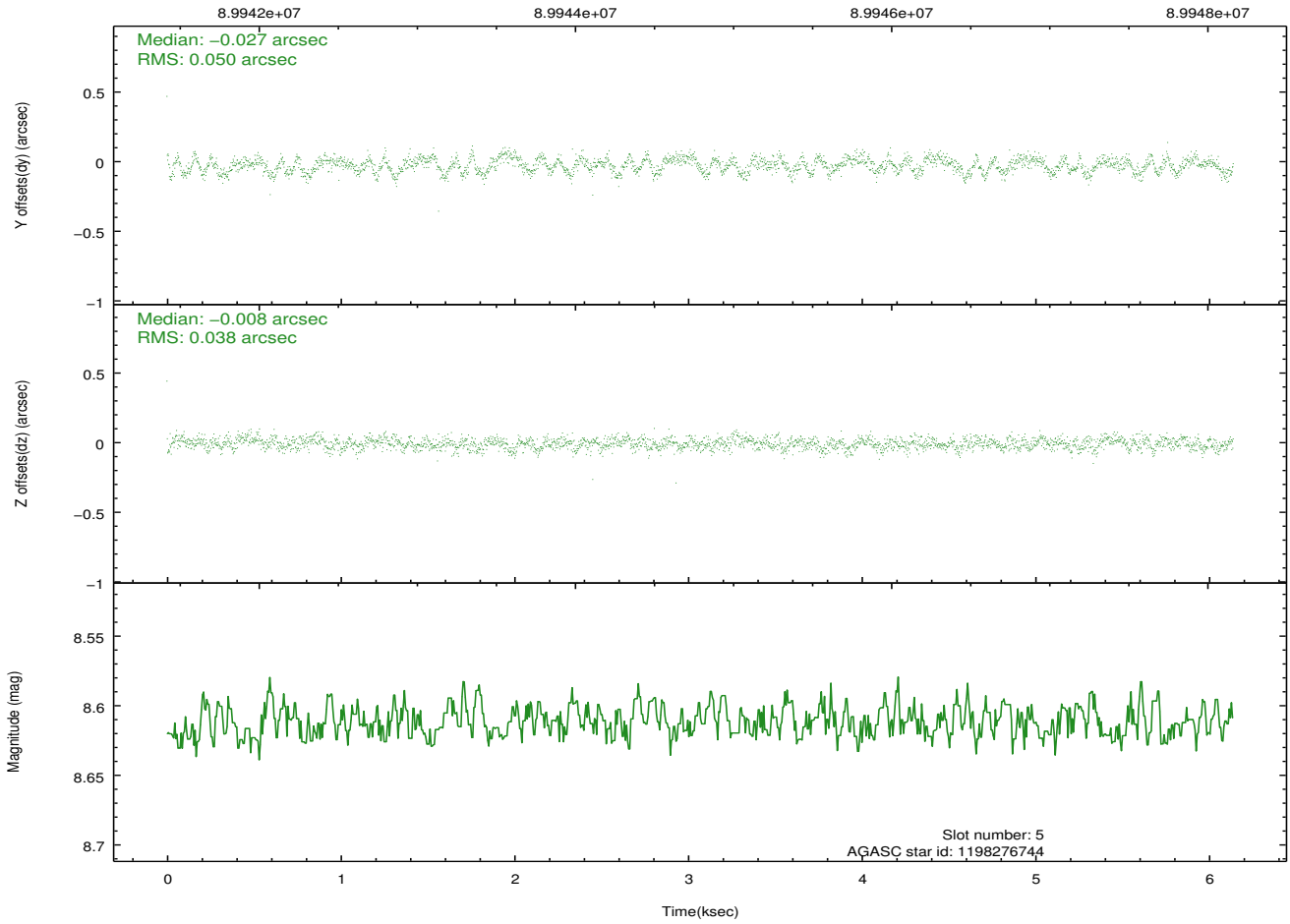
2.4.2 Slot 4



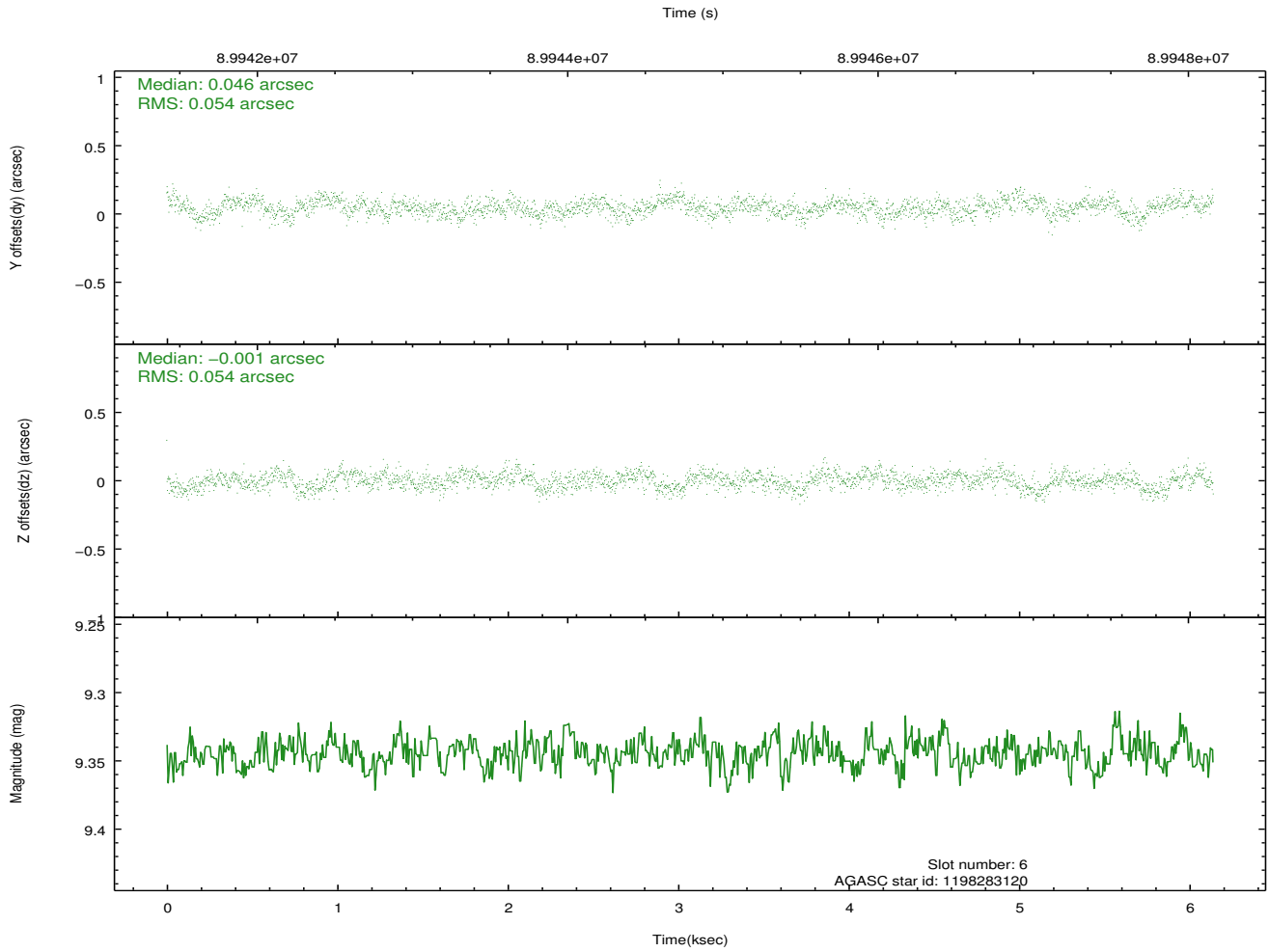
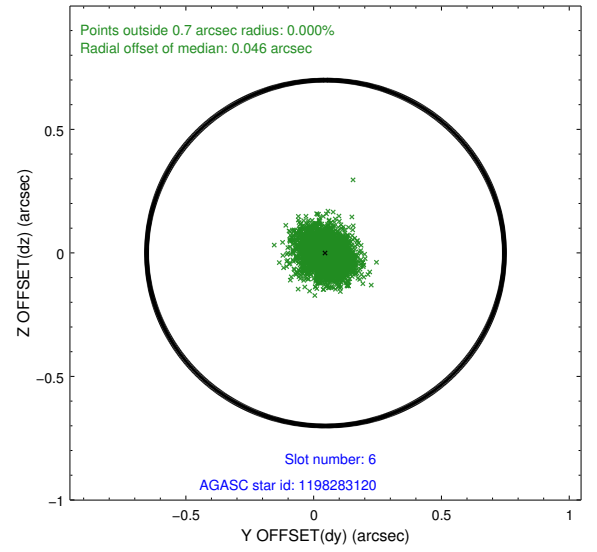
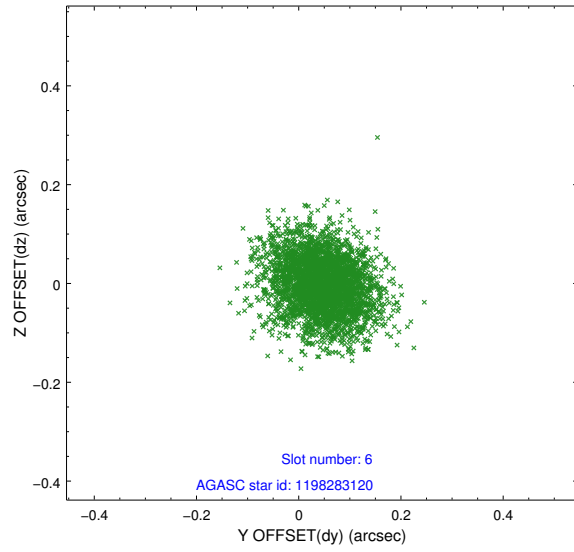
2.4.3 Slot 5



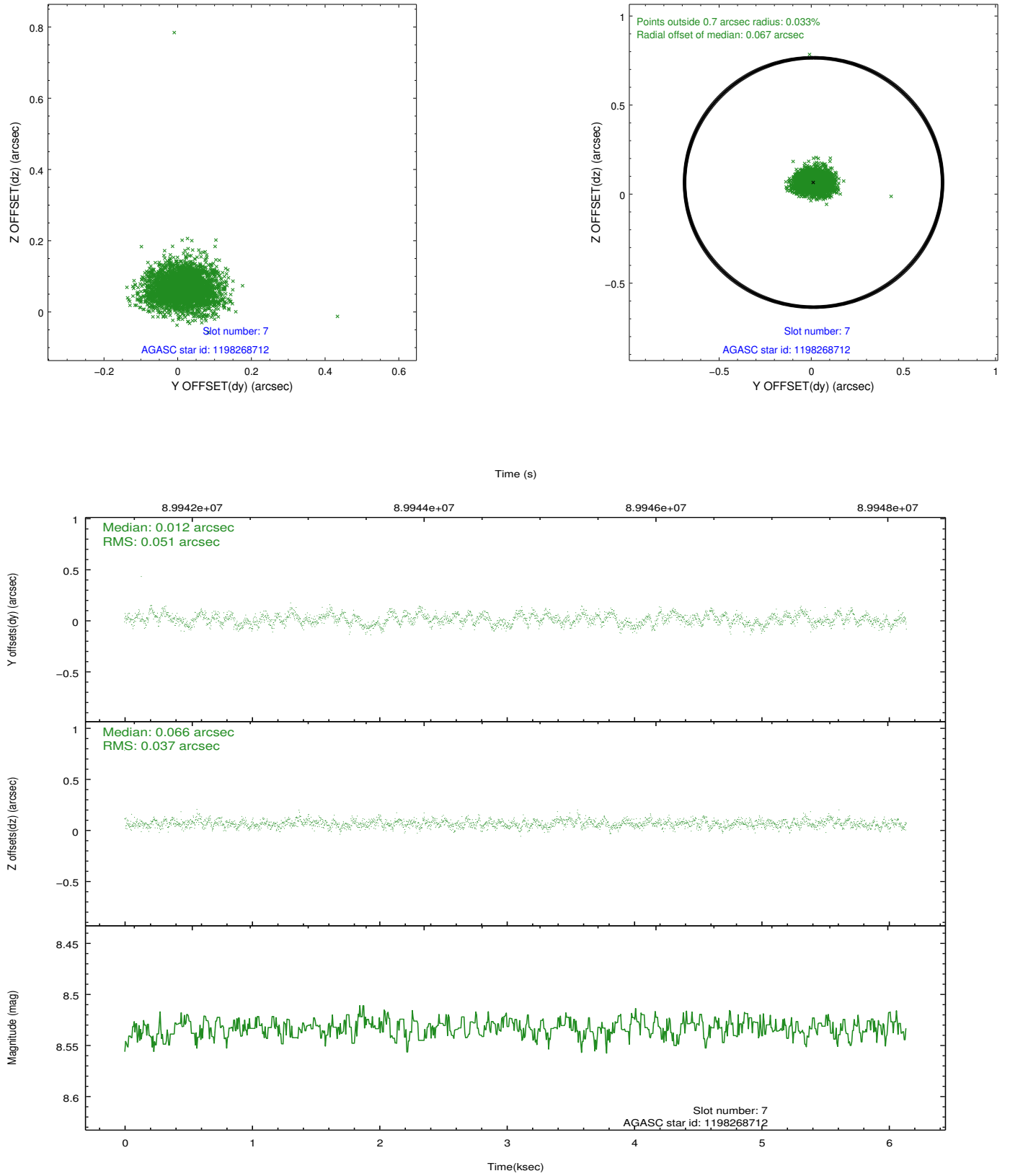
Time (s)



2.4.4 Slot 6

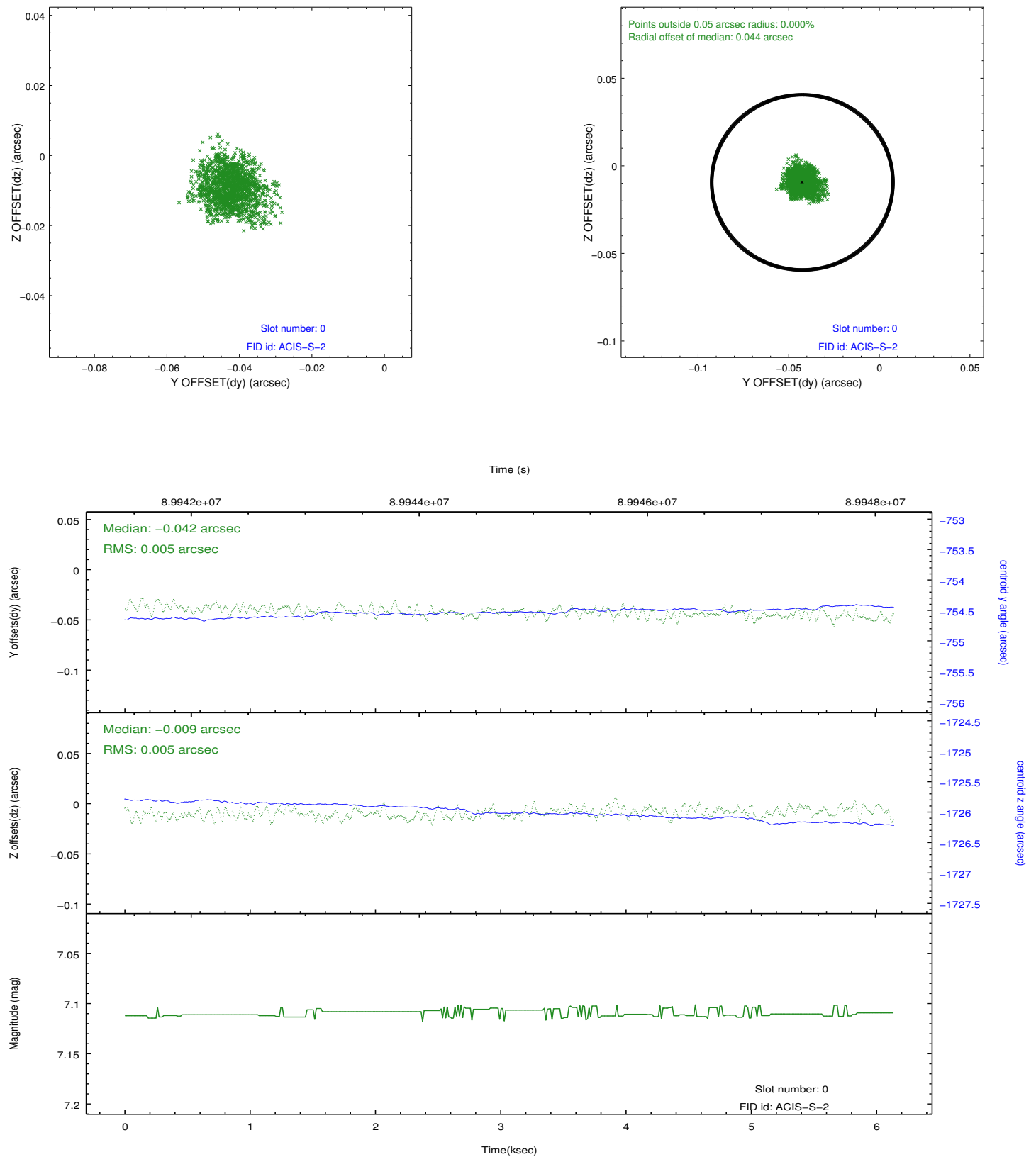


2.4.5 Slot 7

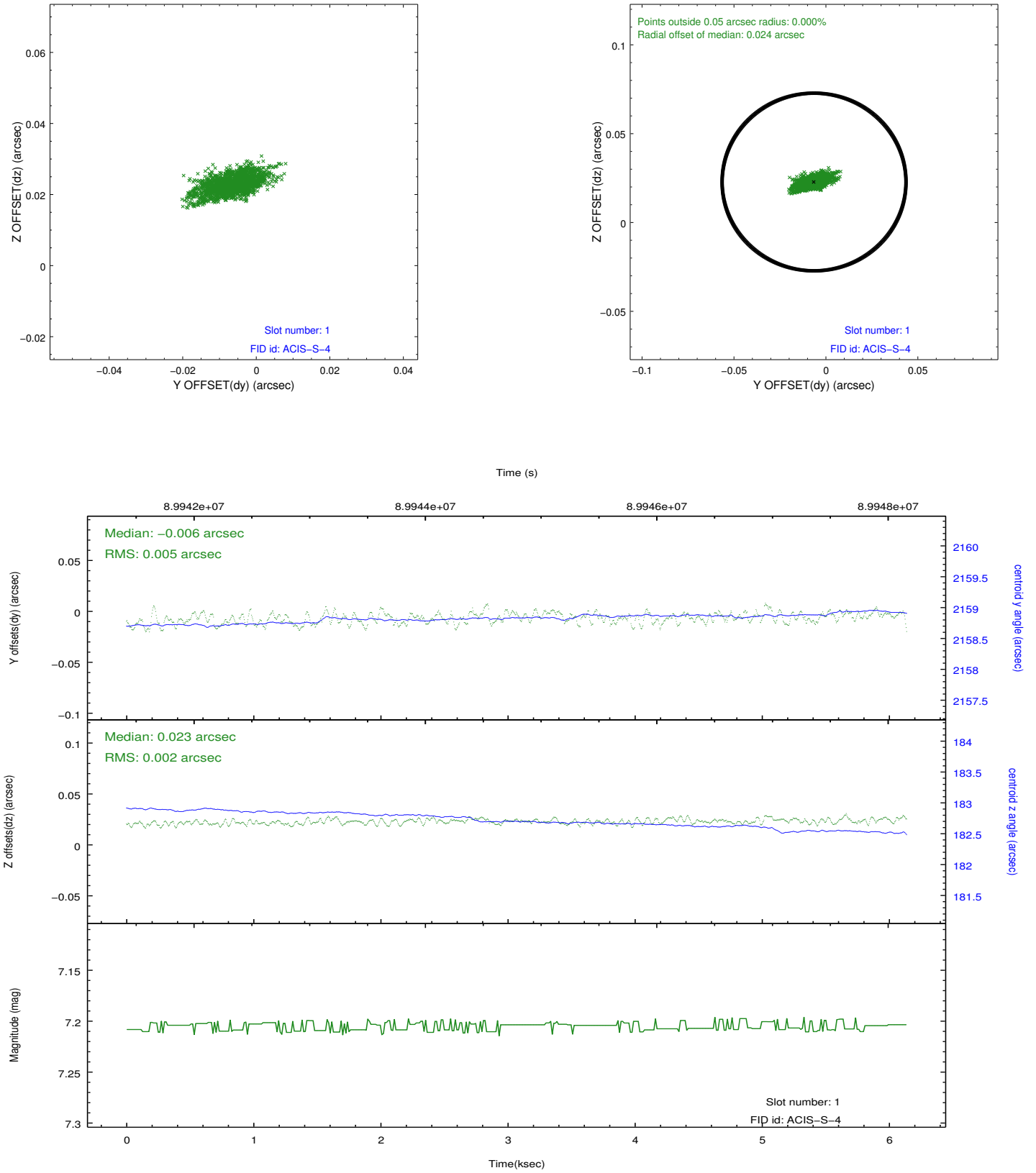


2.5 FID Slots

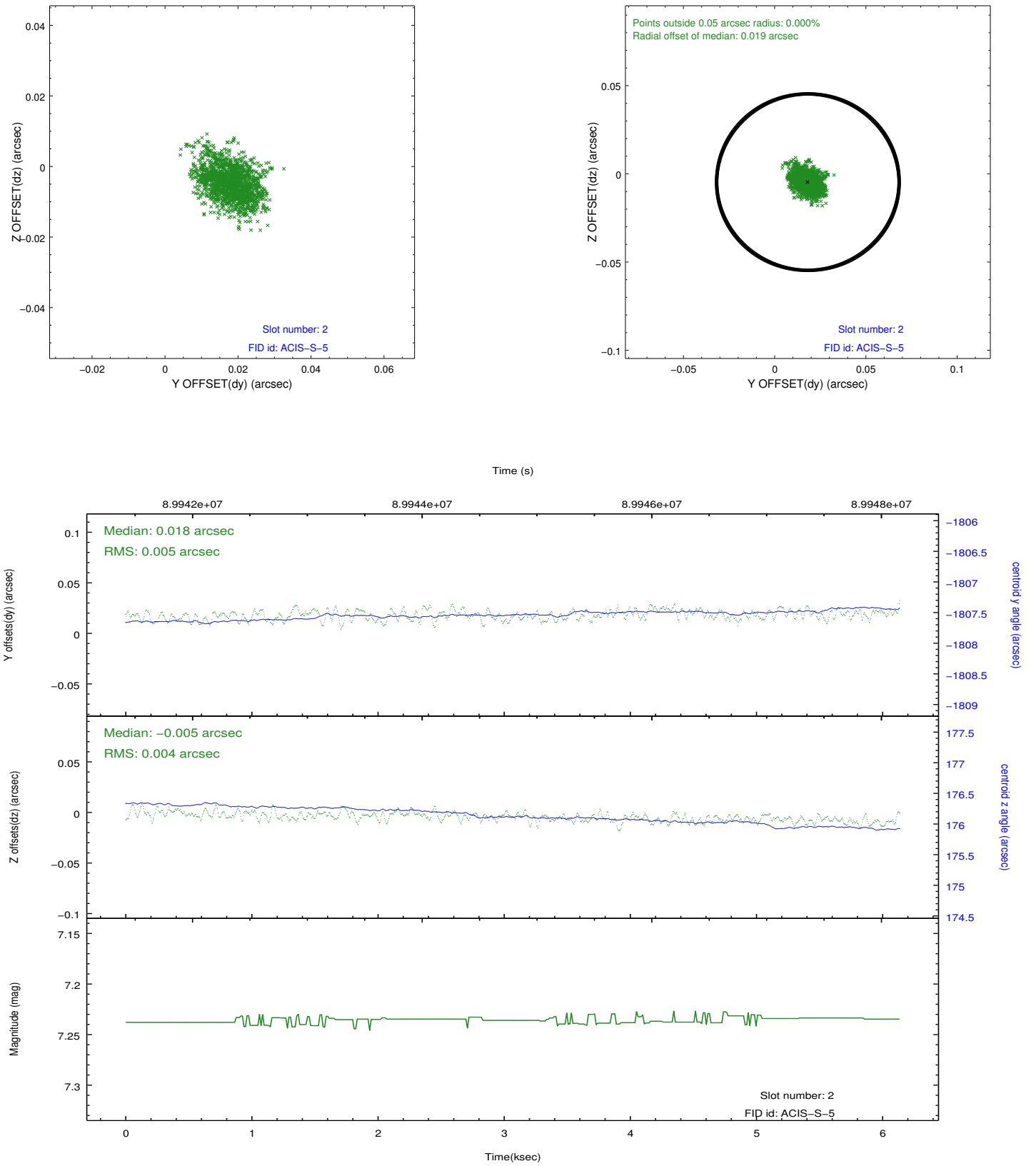
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	6.137

A.2 Comments

window, phase constraints met.