

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7331 - L2 Version 2
Chandra X-Ray Center

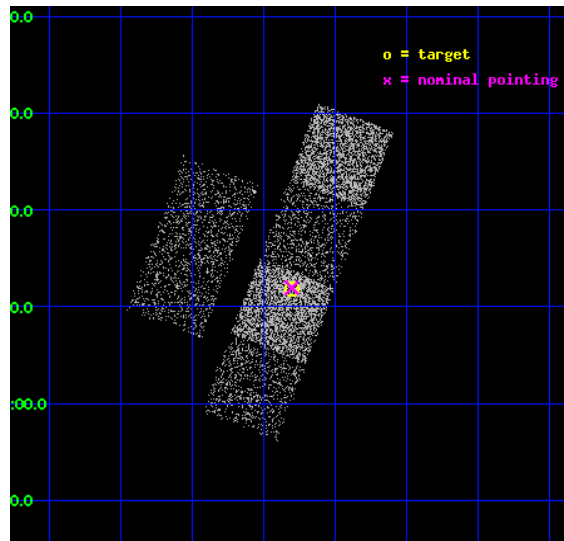
L2 Processing Date : Apr 2 2012

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

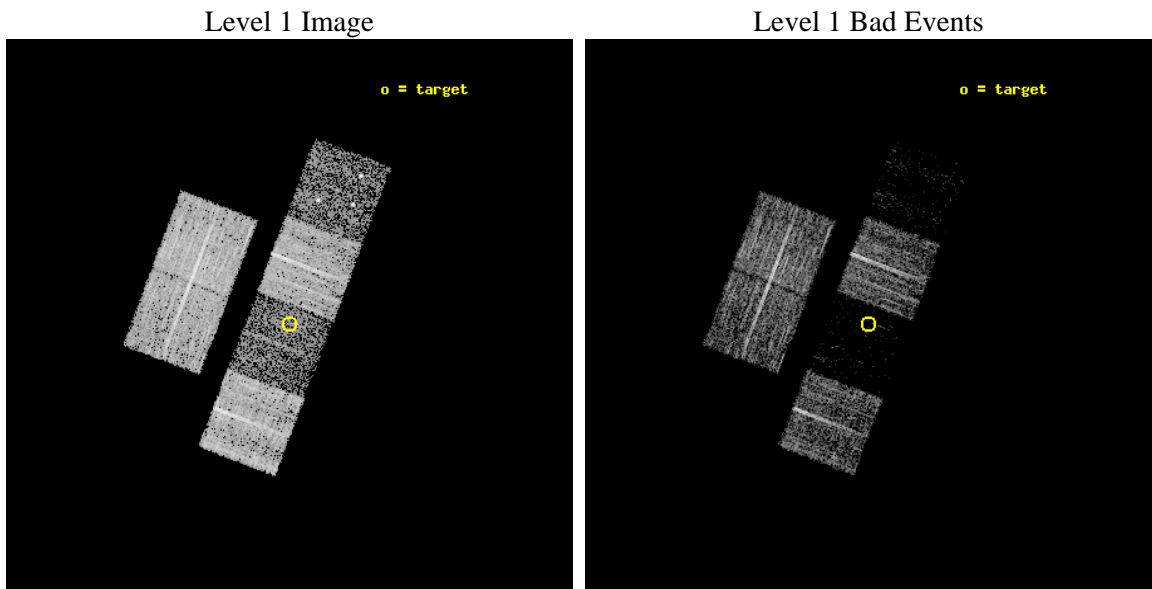
seq_num	100064	Sequence number
obs_id	7331	Observation id
title	An Extremely Close Encounter with the Disintegrating Comet 73P/SW3	
observer	Dr. Scott Wolk	Principal investigator
object	73P-B/Schwassmann-Wachmann 3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	359.574808	Observer's specified target RA [deg]
dec_targ	5.197527	Observer's specified target Dec [deg]
ra_nom	359.57591055968	Nominal RA [deg]
dec_nom	5.1993776452619	Nominal Dec [deg]
roll_nom	110.8514393042	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4185.5999844074	Sum of GTIs [s]
livetime	4132.5993971391	Livetime [s]
ontime2	4182.3590041101	Sum of GTIs [s]
ontime3	4185.5999844074	Sum of GTIs [s]
ontime5	4185.5999844074	Sum of GTIs [s]
ontime6	4185.5999844074	Sum of GTIs [s]
ontime7	4185.5999844074	Sum of GTIs [s]
ontime8	4185.5999844074	Sum of GTIs [s]
l2events	10461	Number of level 2 events



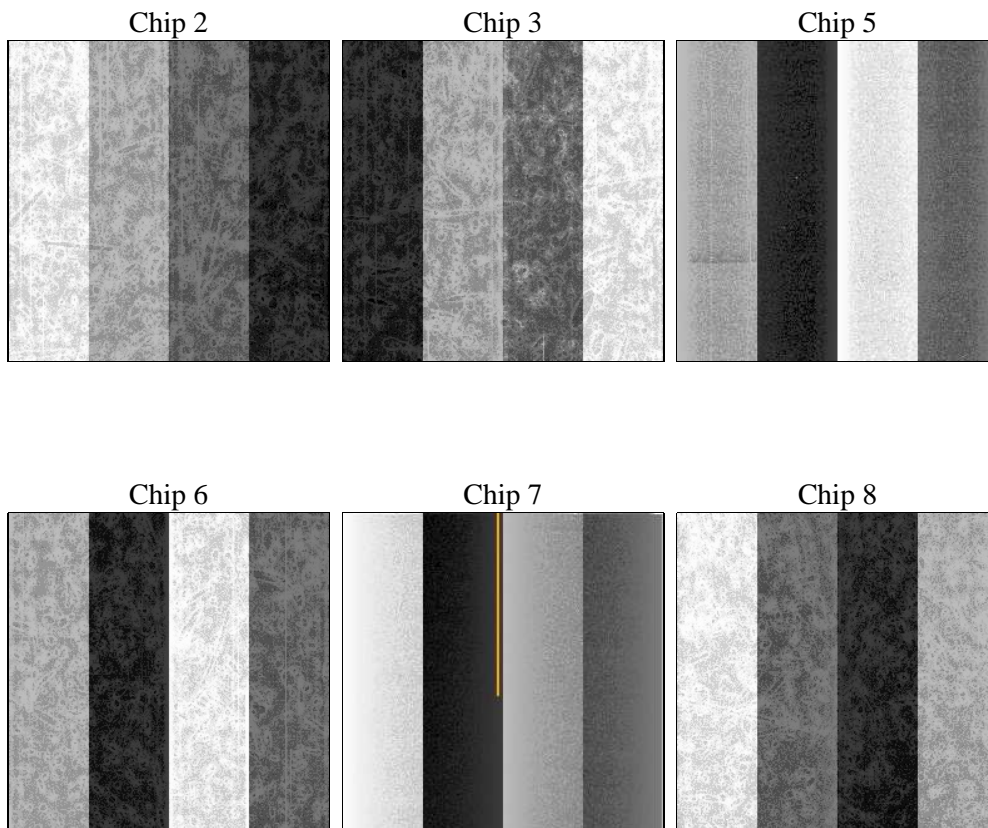
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	4185.5999844074	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	4182.3590041101	Sum of GTIs [s]
date	2012-04-02T03:14:06	Date and time of file creation	ontime3	4185.5999844074	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4185.5999844074	Sum of GTIs [s]
			ontime6	4185.5999844074	Sum of GTIs [s]
			ontime7	4185.5999844074	Sum of GTIs [s]
			ontime8	4185.5999844074	Sum of GTIs [s]
			l1events	116338	Number of level 1 events

2.1.4 Events

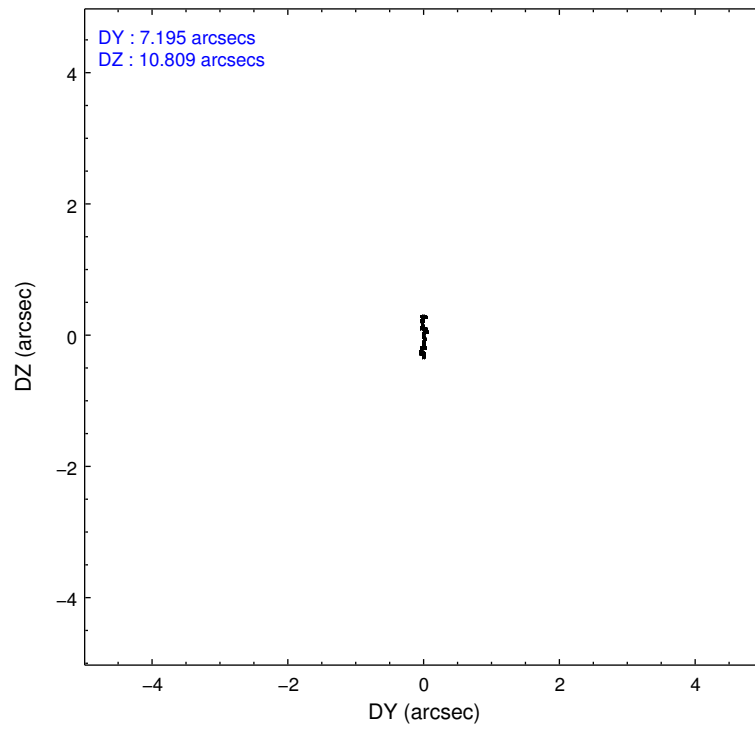
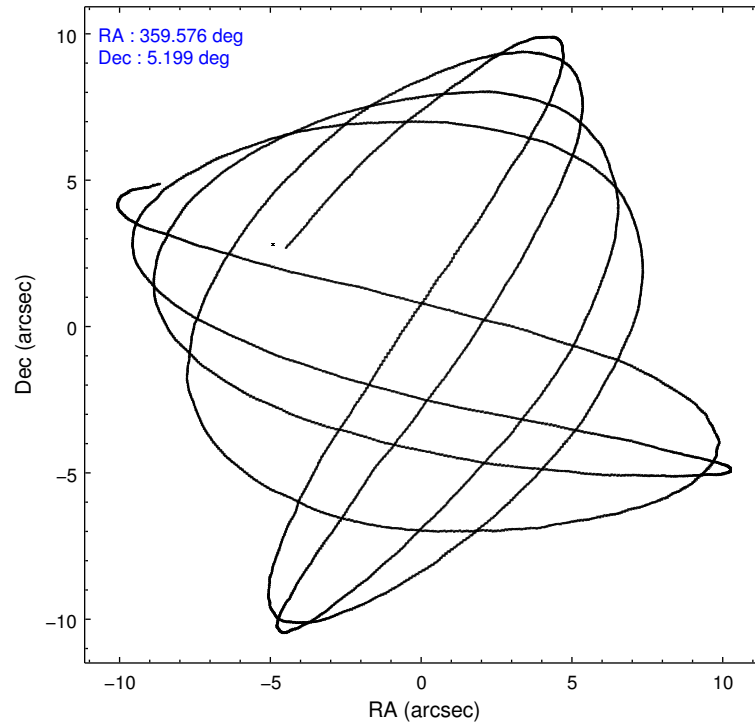
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	29994	23351	6103	24043	5113	27734
rejected events	28579	22307	1804	22761	1162	21151
rejected %	95%	95%	29%	94%	22%	76%

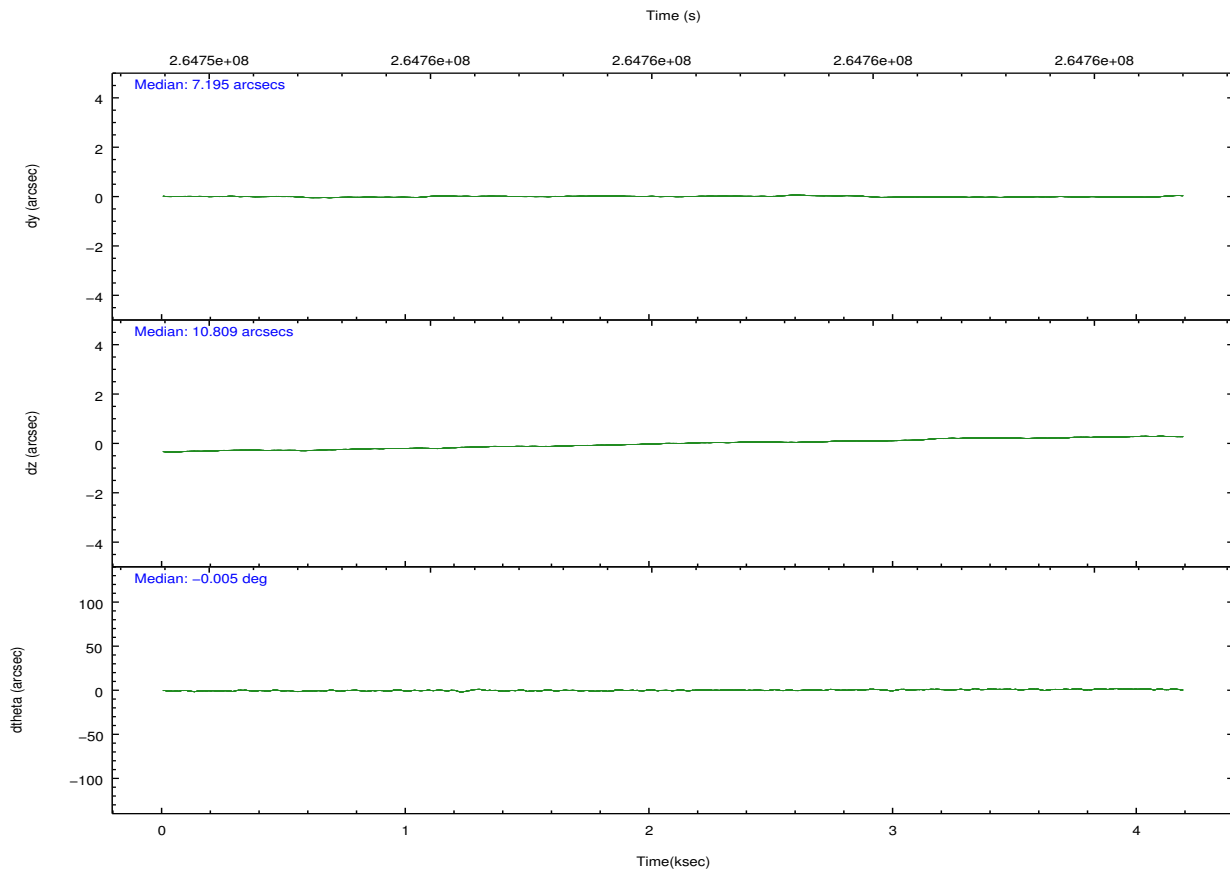
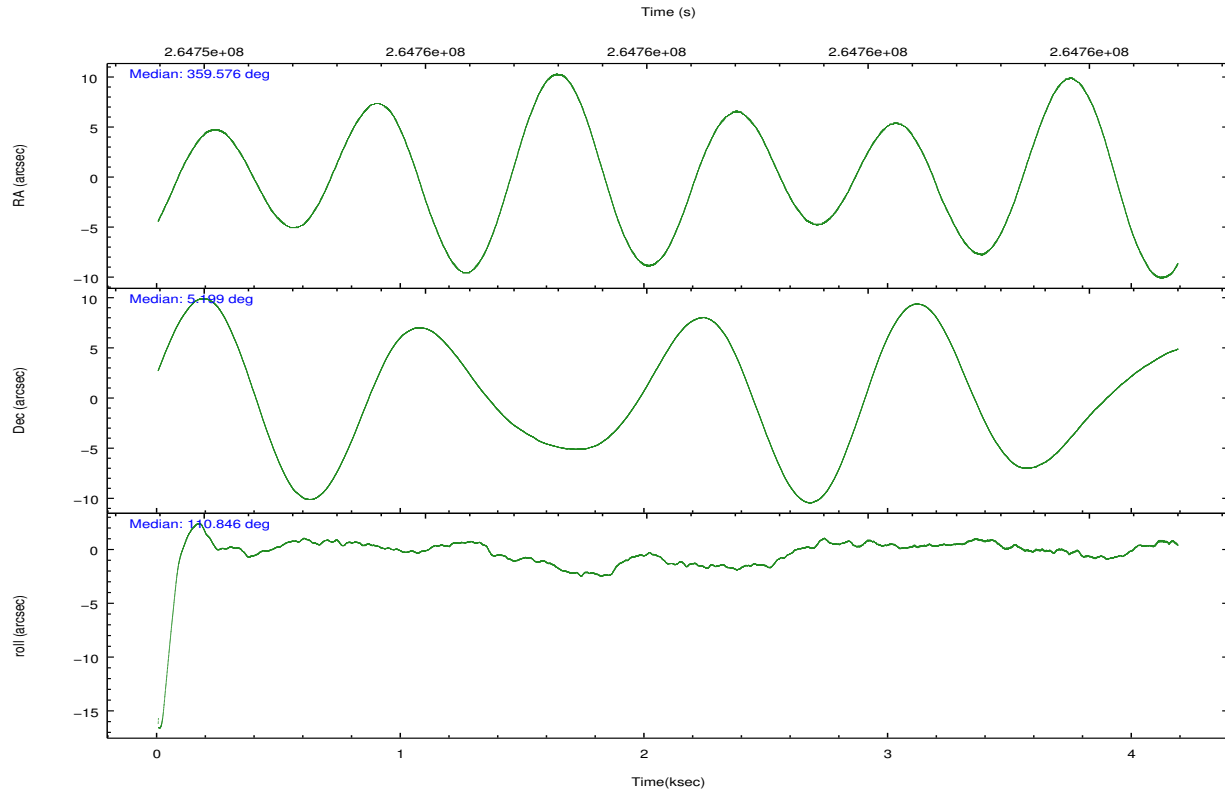
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	685	547	1676	711	1484	2050
	2%	2%	27%	2%	29%	7%
grade 1 events	10	3	33	8	21	22
	0%	0%	0%	0%	0%	0%
grade 2 events	354	165	1555	249	1173	1628
	1%	0%	25%	1%	22%	5%
grade 3 events	168	164	382	159	479	792
	0%	0%	6%	0%	9%	2%
grade 4 events	181	145	417	146	455	709
	0%	0%	6%	0%	8%	2%
grade 5 events	54	37	300	32	151	166
	0%	0%	4%	0%	2%	0%
grade 6 events	141	101	617	120	647	1865
	0%	0%	10%	0%	12%	6%
grade 7 events	28401	22189	1123	22618	703	20502
	94%	95%	18%	94%	13%	73%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	359.597373	359.5759105596825	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.182377	5.199377645261857	Alternating exposures requested	N	N
[deg] Pointing Roll	110.692874	110.851439304204	[s] Primary exposure time	0.000000	3.2
[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)	264754192.184000	264753815.95015			
Observation start date	2006-05-23T06:48:47	2006-05-23T06:43:35			
[s] Observation end time (MET)	264758192.184000	264758325.95036			
Observation end date	2006-05-23T07:55:27	2006-05-23T07:58:45			
Read mode	TIMED	TIMED			

2.3 Aspect



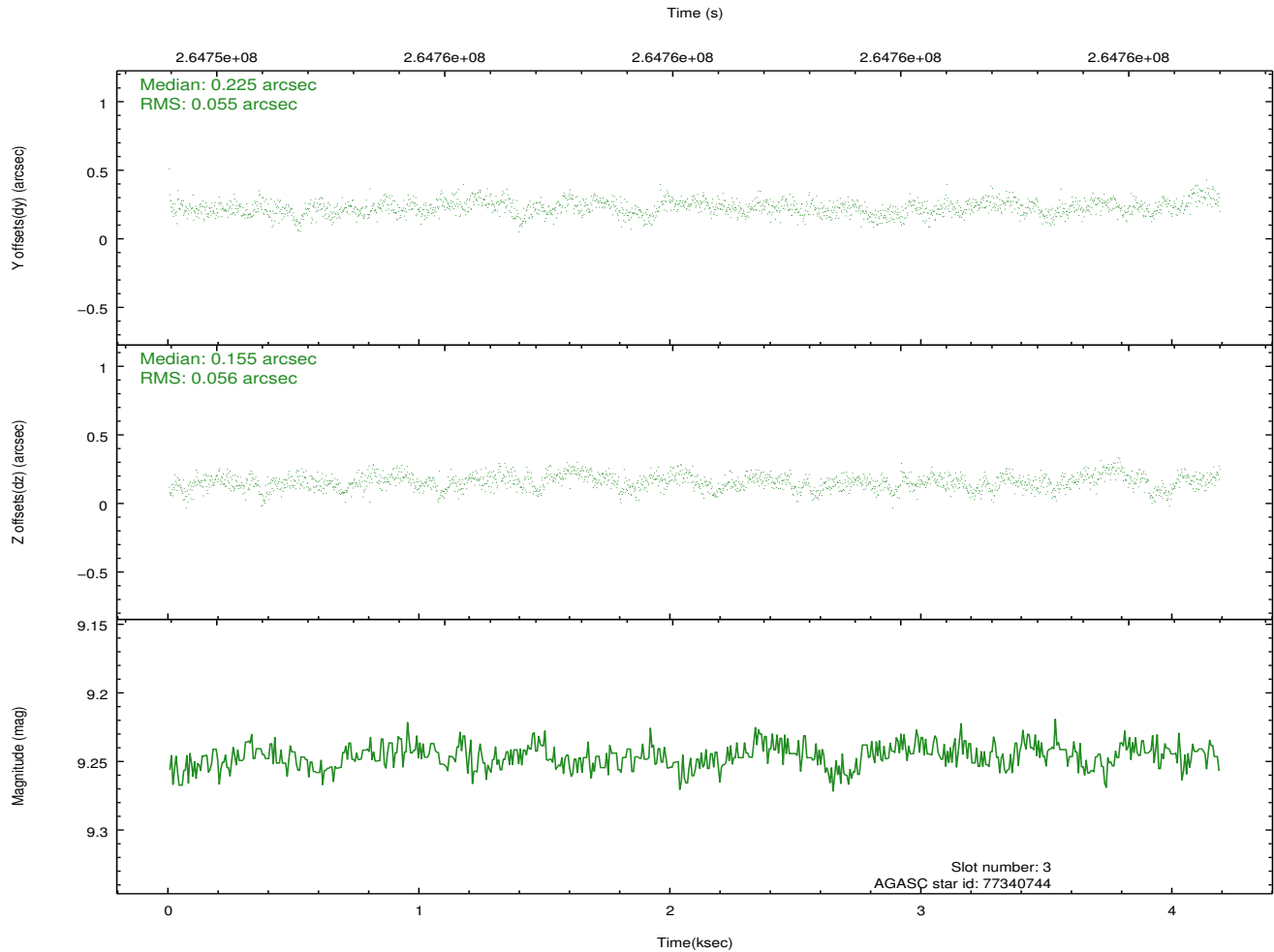
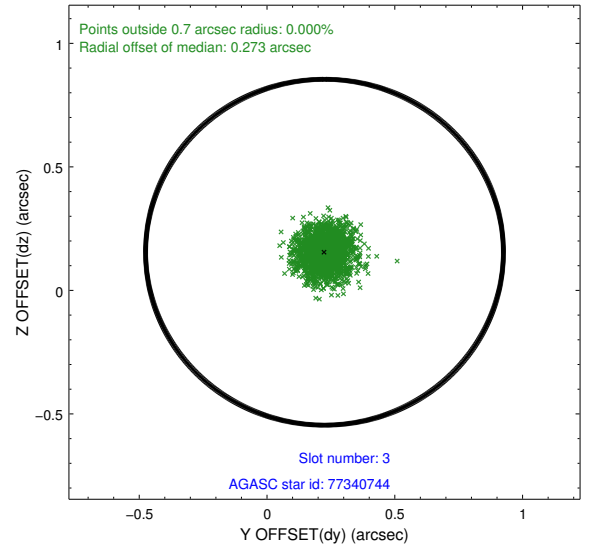
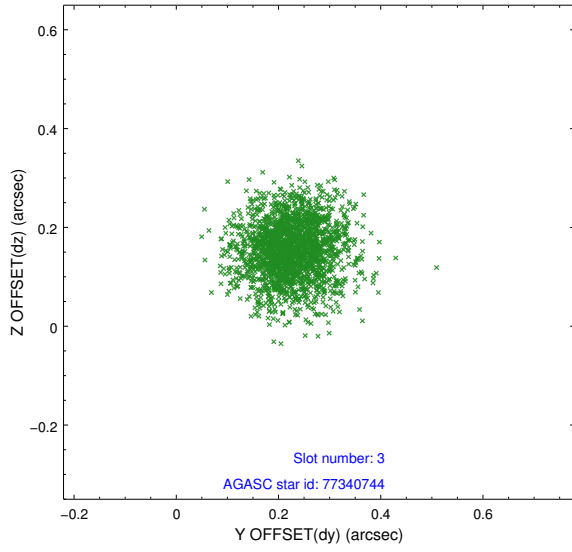


Slot Statistics

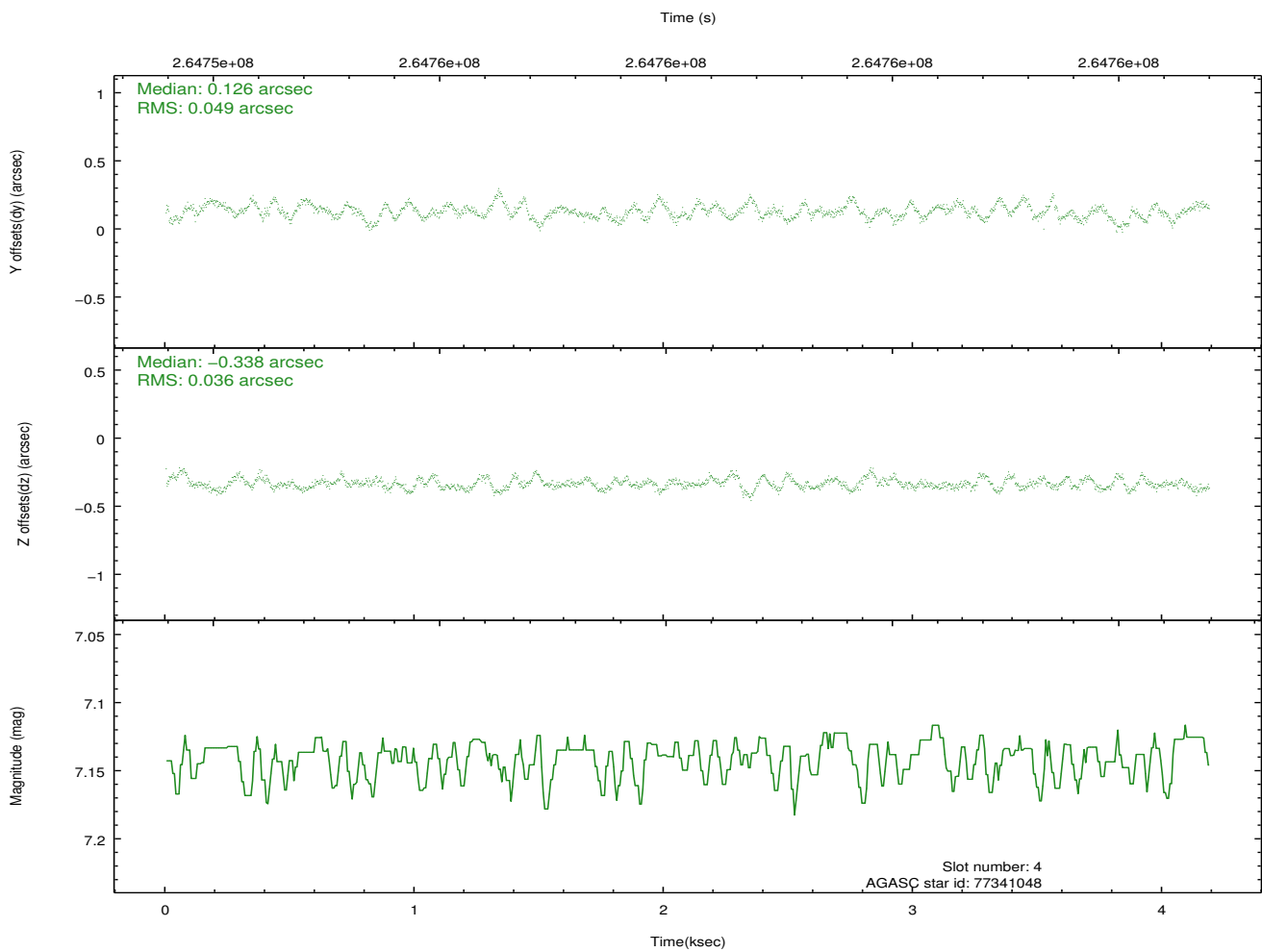
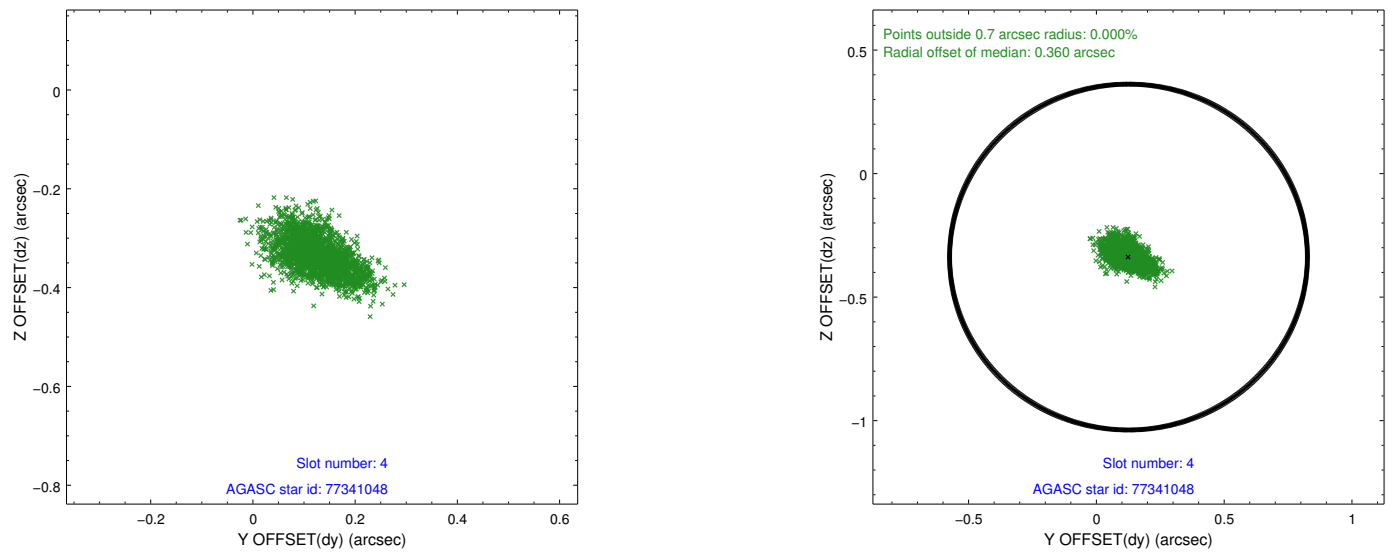
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1021	0.042	-0.077	0.012	0.018	0.000000	0.000000	936.13	-1727.76
1	FID	ACIS-S-5	7.24	1021	-0.071	0.022	0.007	0.010	0.000000	0.000000	-1812.15	168.37
2	FID	ACIS-S-6	7.37	1021	0.008	0.067	0.011	0.017	0.000000	0.000000	400.05	814.04
3	GUIDE	77340744	9.25	2041	0.225	0.155	0.083	0.137	359.949603	4.749030	-1905.51	-630.57
4	GUIDE	77341048	7.14	2041	0.126	-0.338	0.062	0.110	359.197162	4.725123	-1033.34	1923.92
5	GUIDE	77735784	7.53	2043	-0.209	0.240	0.083	0.146	359.976109	5.956552	2127.67	-2252.16
6	GUIDE	77737864	9.39	2041	-0.071	0.099	0.094	0.162	359.593574	5.648848	1576.64	-581.19
7	GUIDE	77738096	8.77	2031	-0.082	-0.167	0.063	0.102	359.448323	5.404347	936.88	217.25

2.4 Star Slots

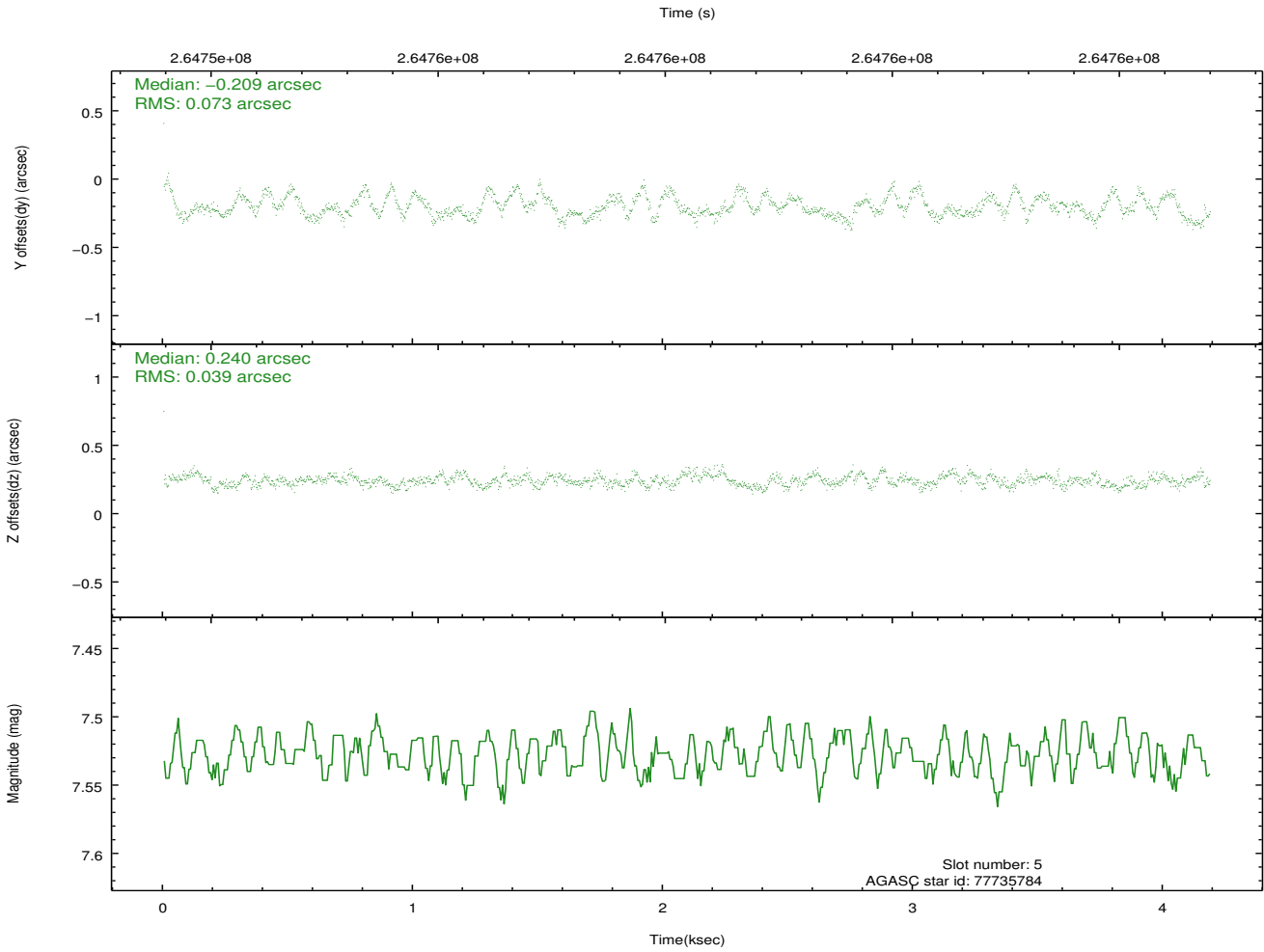
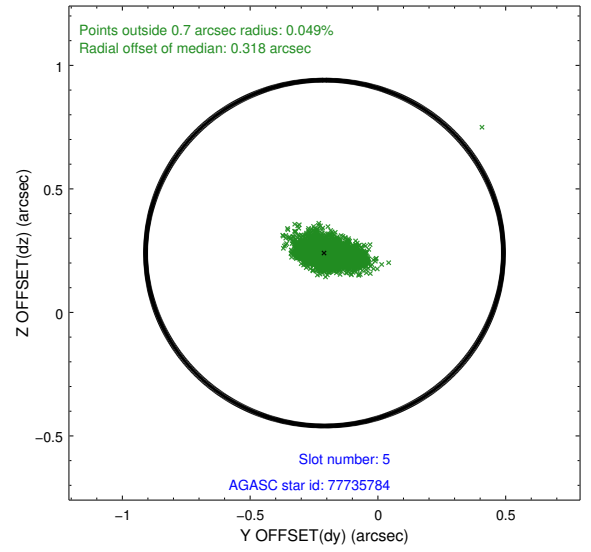
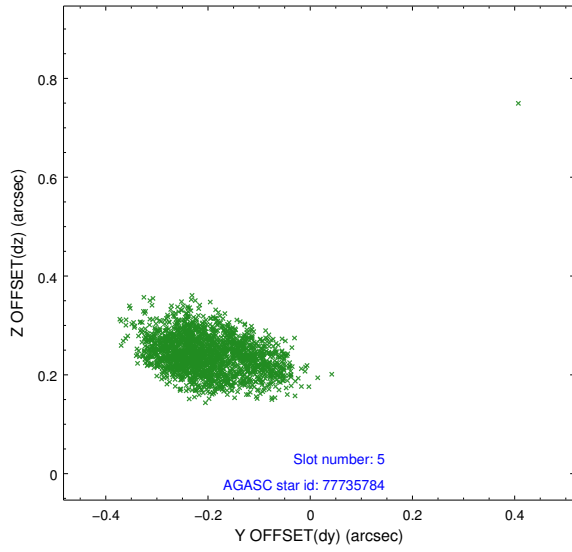
2.4.1 Slot 3



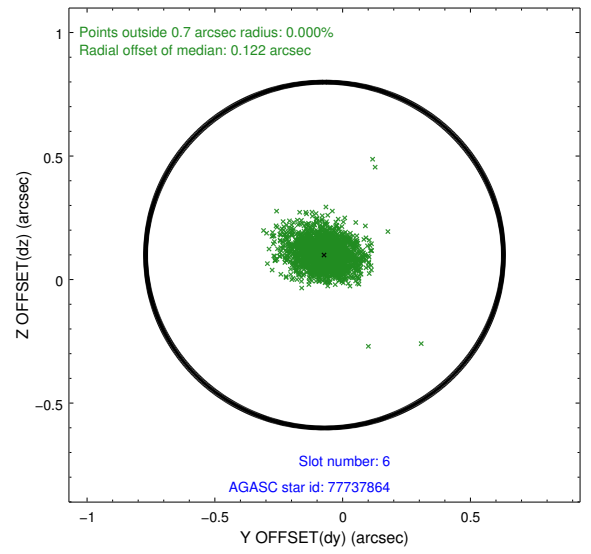
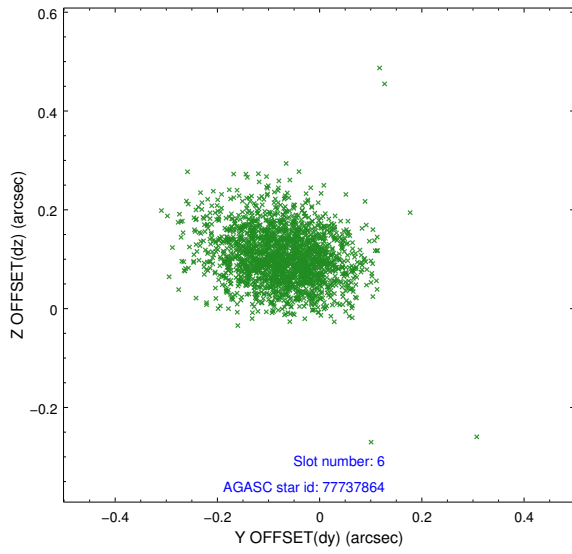
2.4.2 Slot 4



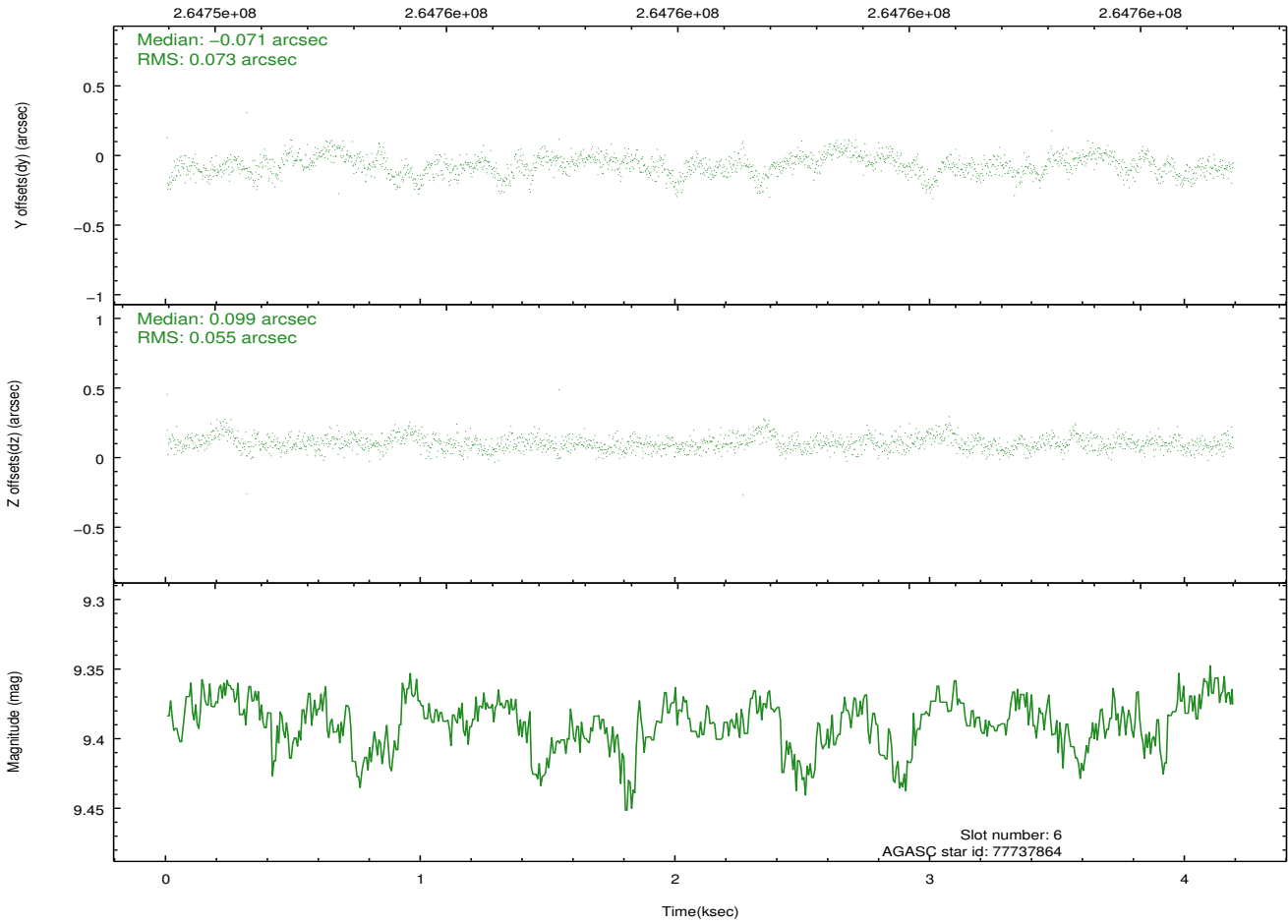
2.4.3 Slot 5



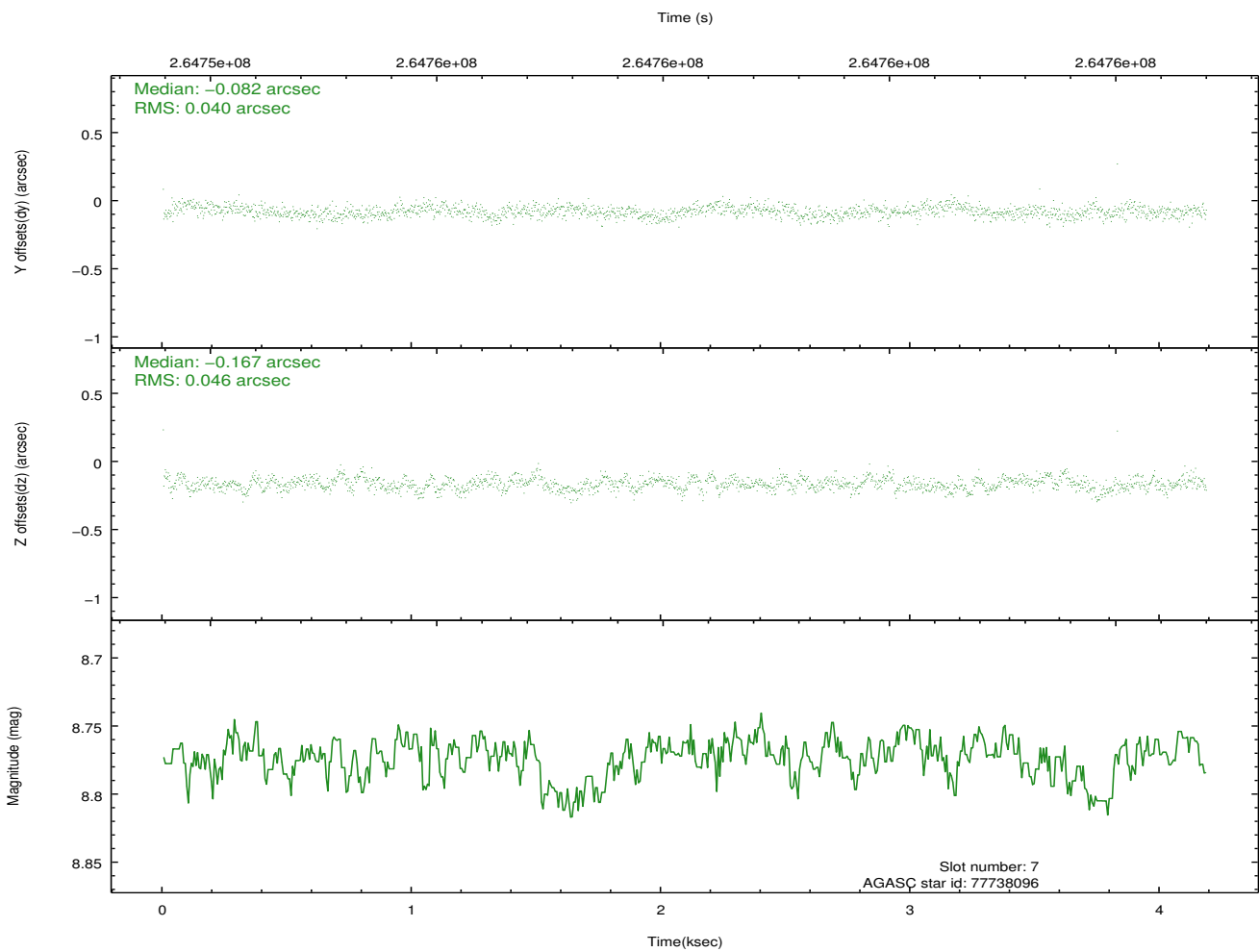
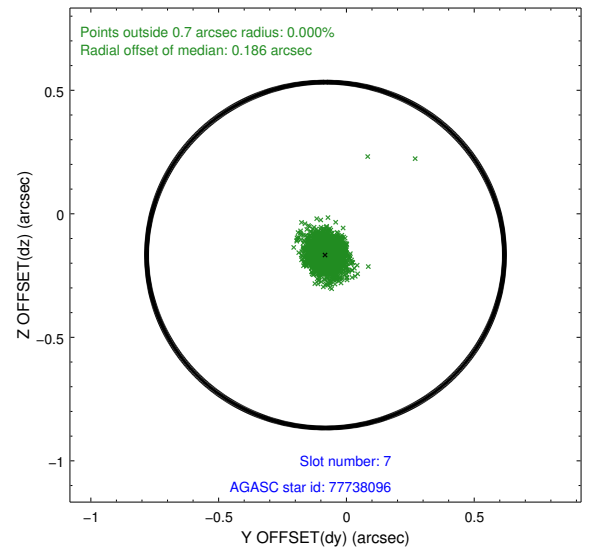
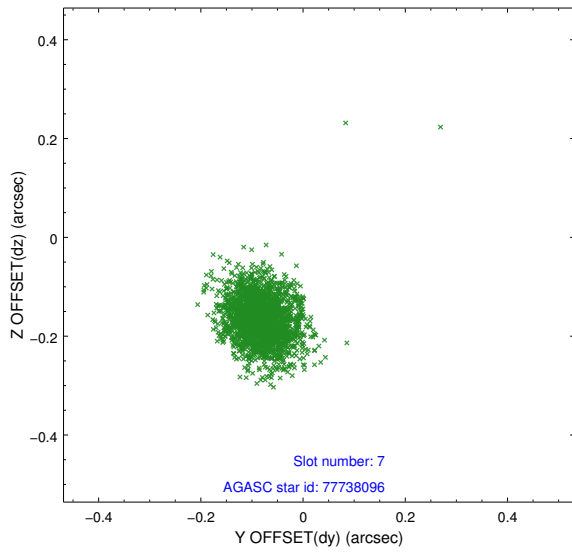
2.4.4 Slot 6



Time (s)

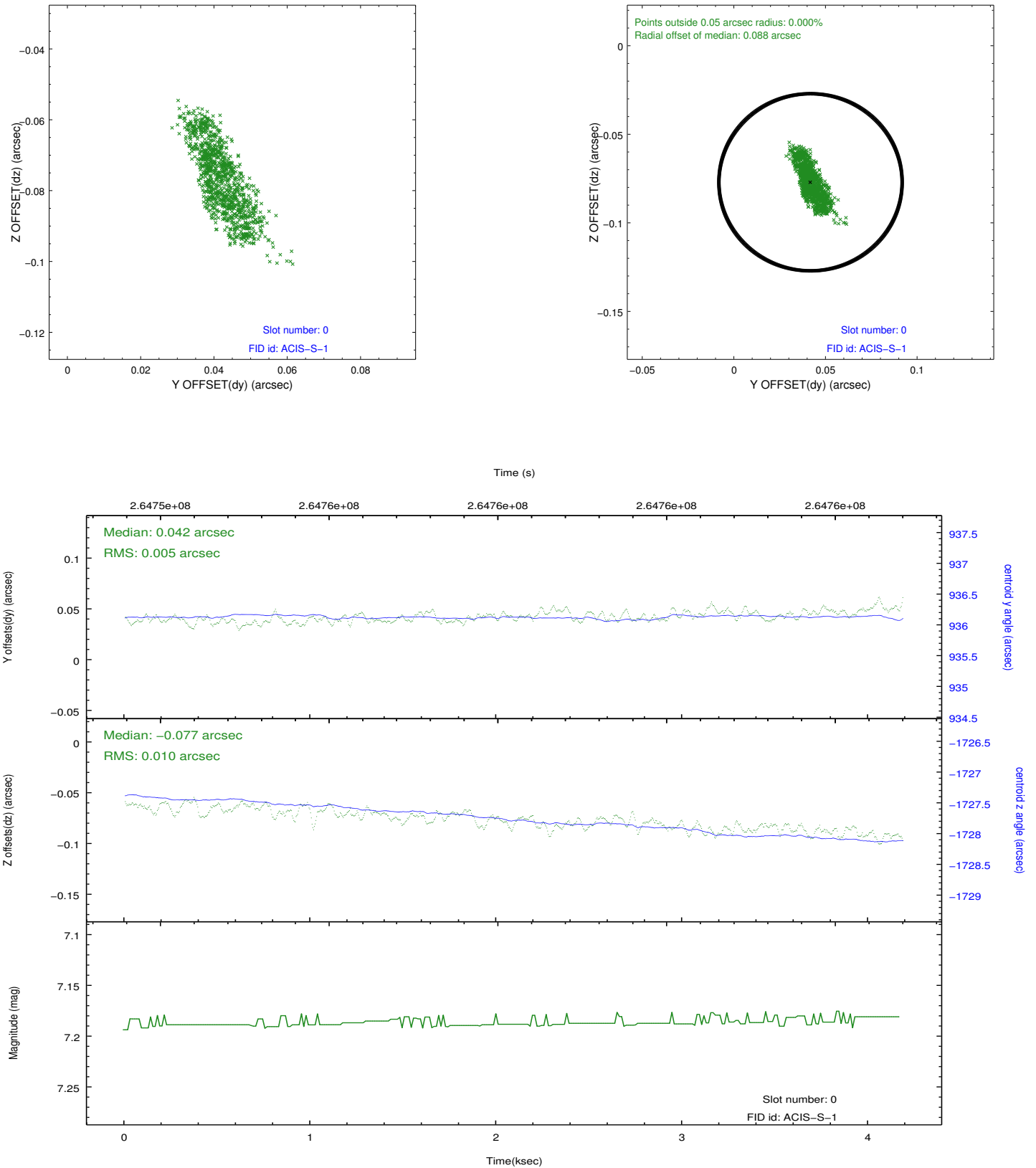


2.4.5 Slot 7

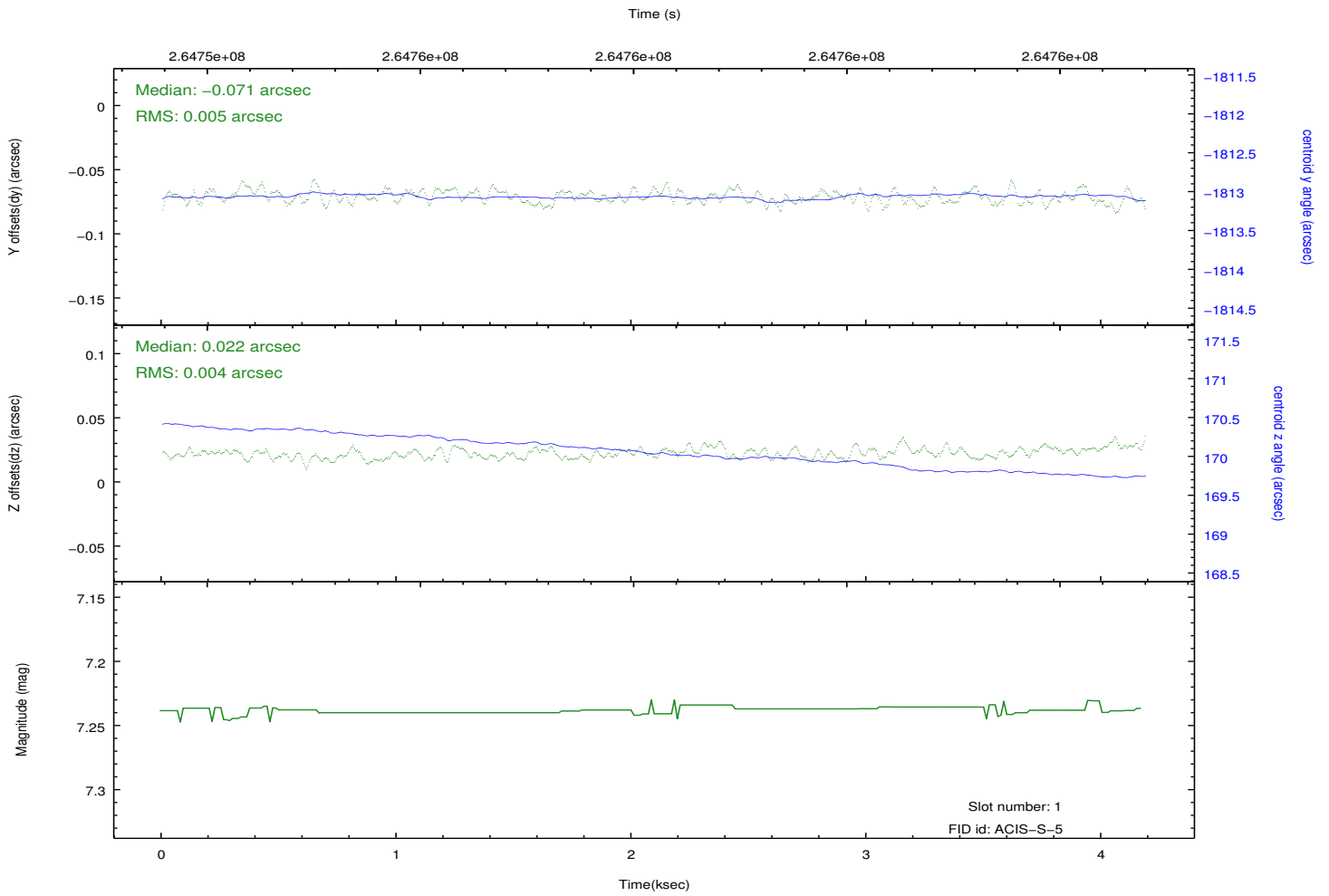
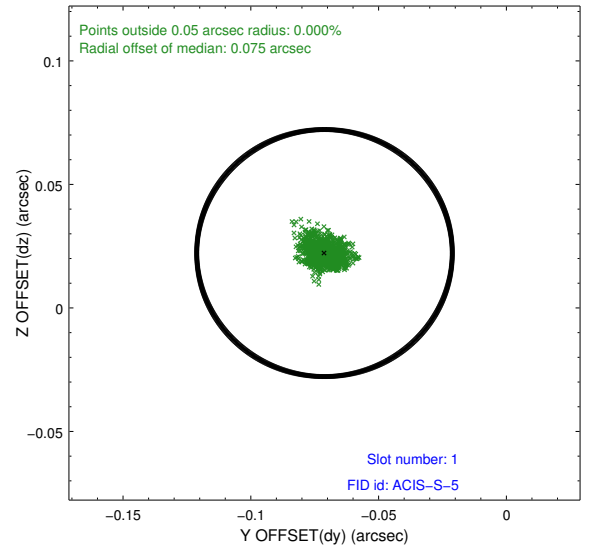
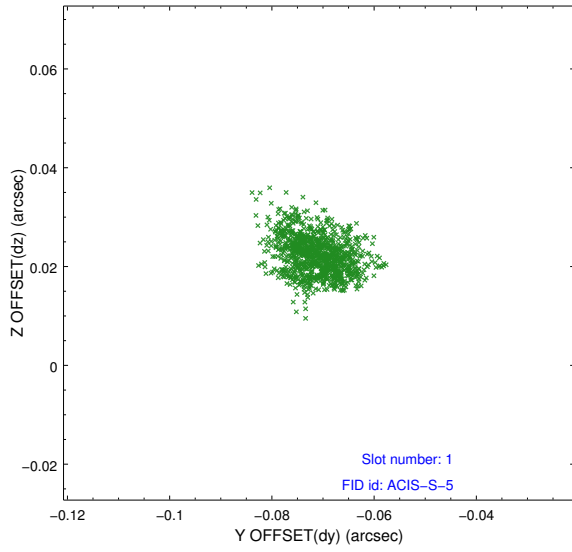


2.5 FID Slots

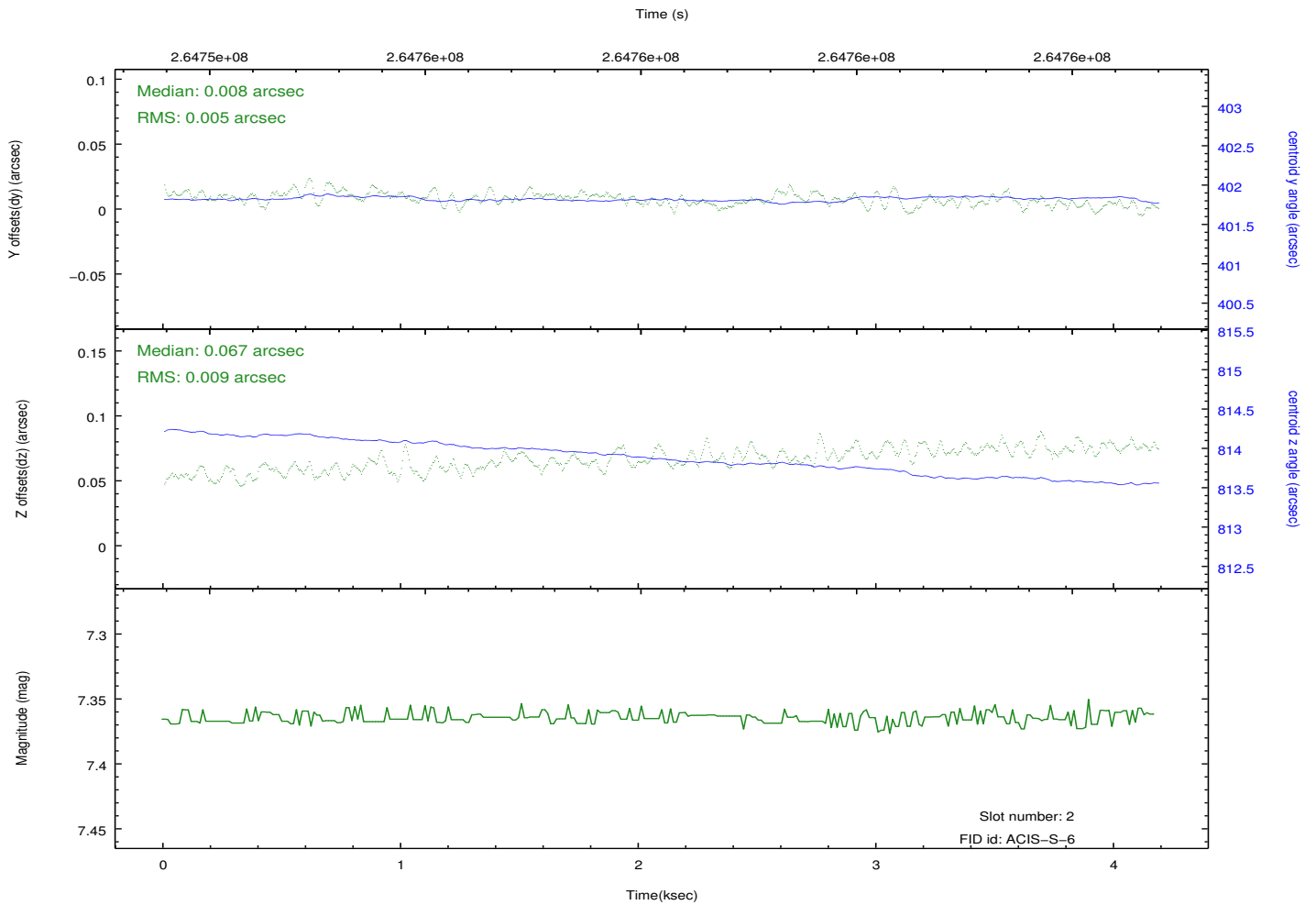
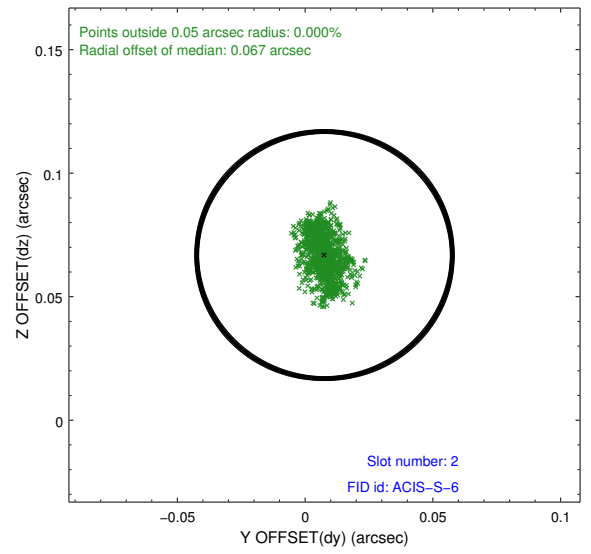
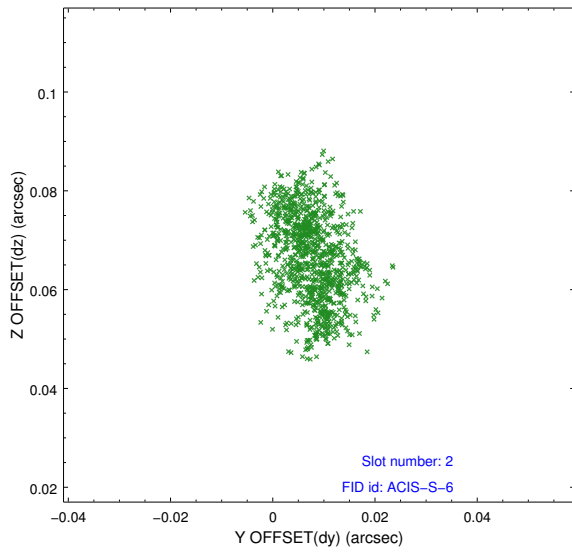
2.5.1 Slot 0



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)	2012.04.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.18559998

A.2 Comments