

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1538 - L2 Version 3
Chandra X-Ray Center

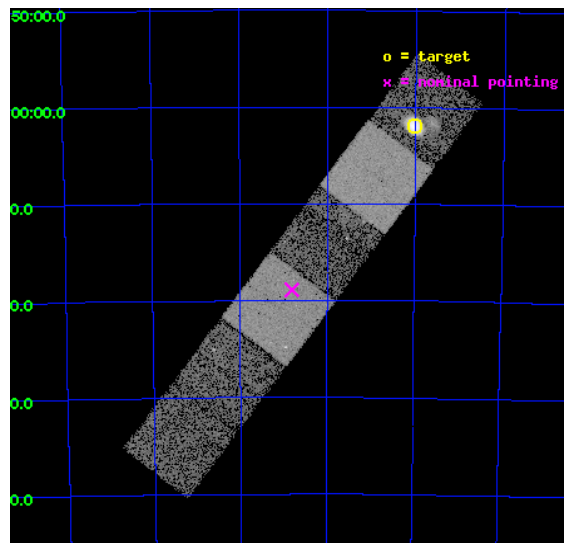
L2 Processing Date : Sep 17 2012

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1 Front

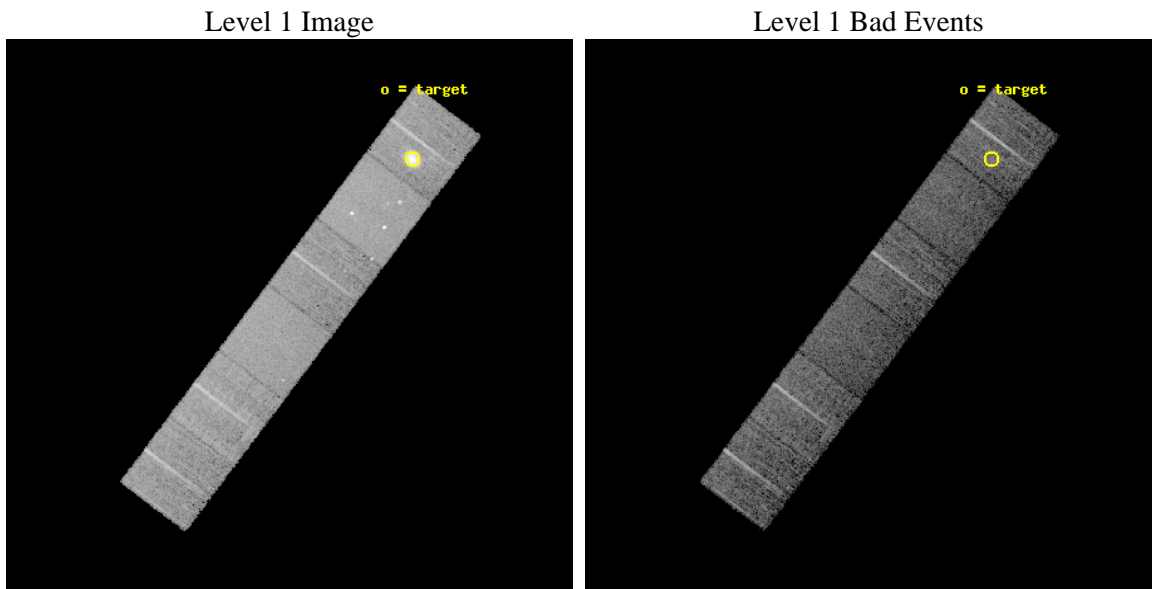
seq_num	590147	Sequence number
obs_id	1538	Observation id
title	ACIS CALIBRATION OBSERVATION OF THE SUPERNOVA REMNANT E0102-72 (JUNE 2001)	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72.3 [Chip S0, T=120, Offsets=21,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.701505687553	Nominal RA [deg]
dec_nom	-72.314793615413	Nominal Dec [deg]
roll_nom	127.02831852813	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7705.6000071615	Sum of GTIs [s]
livetime	7608.0270601155	Livetime [s]
ontime4	7705.6000071615	Sum of GTIs [s]
ontime5	7705.6000071615	Sum of GTIs [s]
ontime6	7705.6000071615	Sum of GTIs [s]
ontime7	7705.6000071615	Sum of GTIs [s]
ontime8	7705.6000071615	Sum of GTIs [s]
ontime9	7705.6000071615	Sum of GTIs [s]
l2events	98296	Number of level 2 events



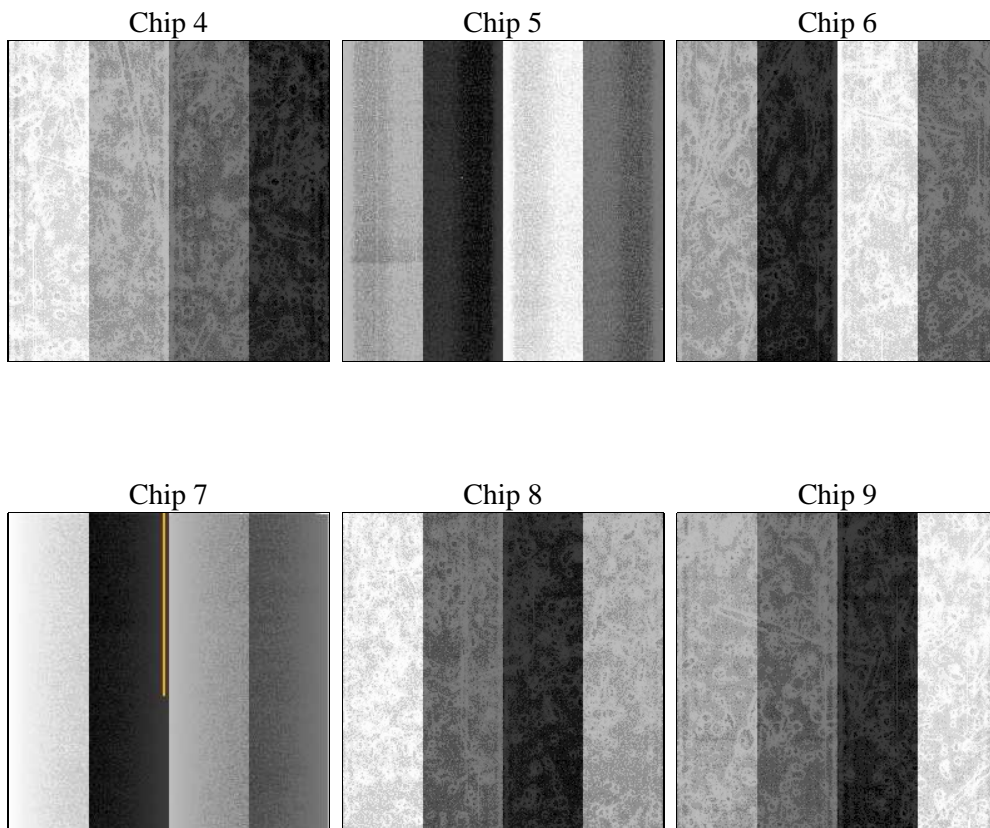
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7755.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7705.6000071615	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime4	7705.6000071615	Sum of GTIs [s]
date	2012-09-17T18:03:38	Date and time of file creation	ontime5	7705.6000071615	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7705.6000071615	Sum of GTIs [s]
			ontime7	7705.6000071615	Sum of GTIs [s]
			ontime8	7705.6000071615	Sum of GTIs [s]
			ontime9	7705.6000071615	Sum of GTIs [s]
			l1events	384066	Number of level 1 events

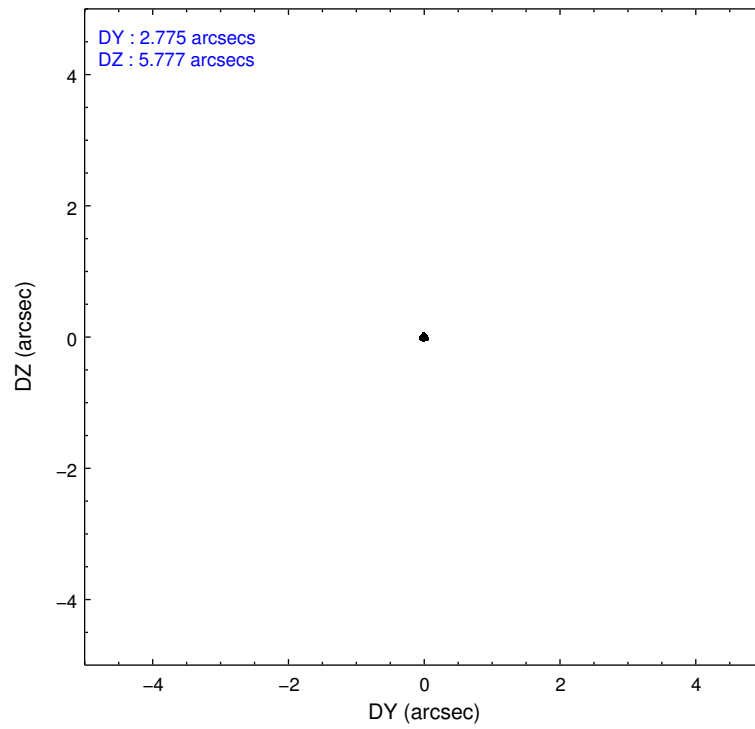
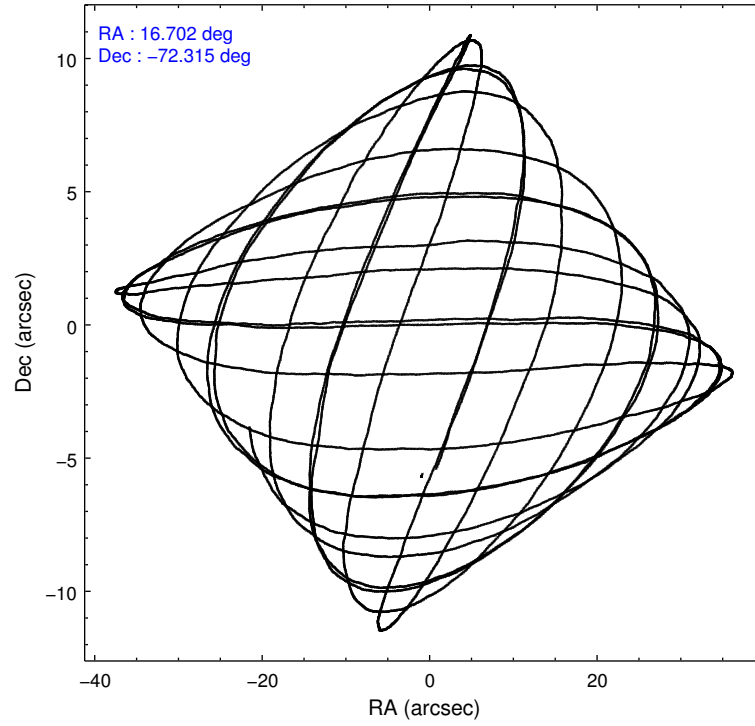
2.1.4 Events

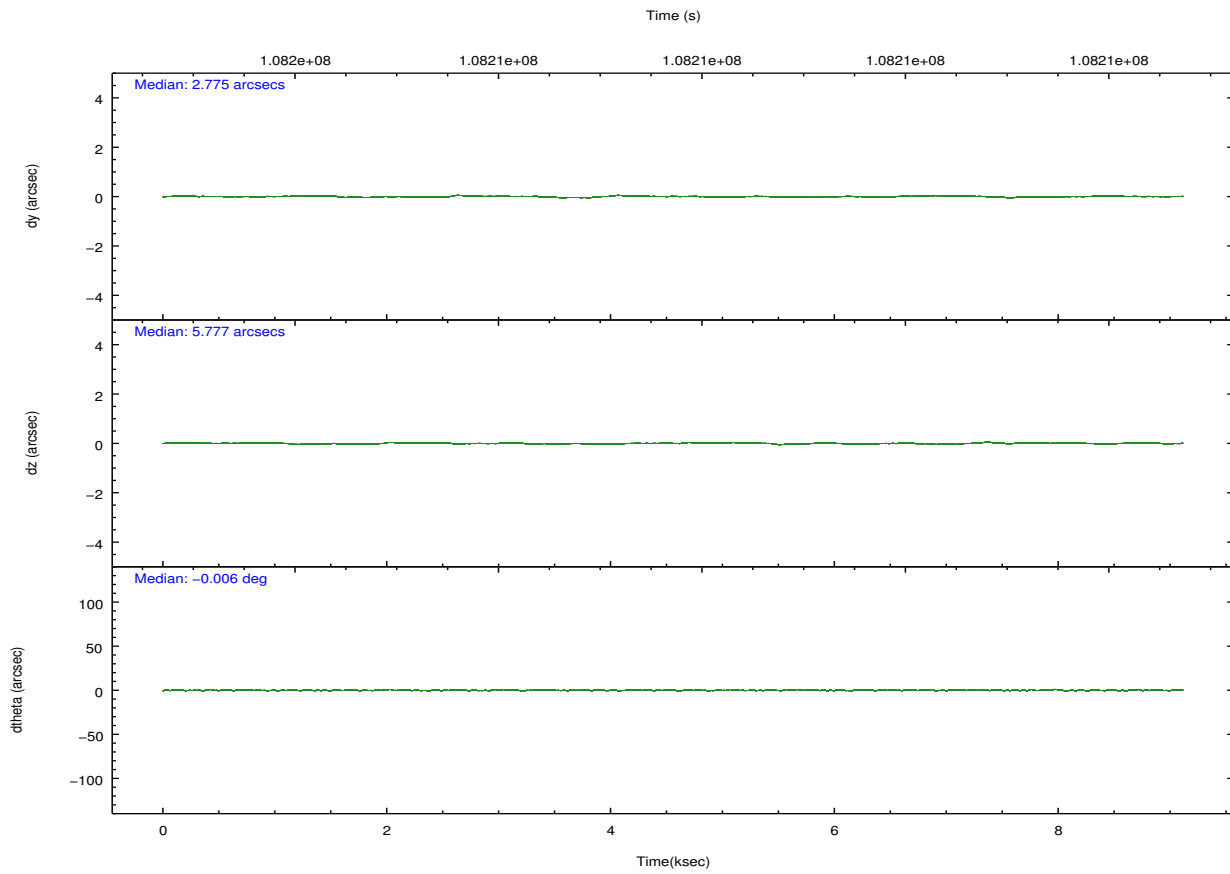
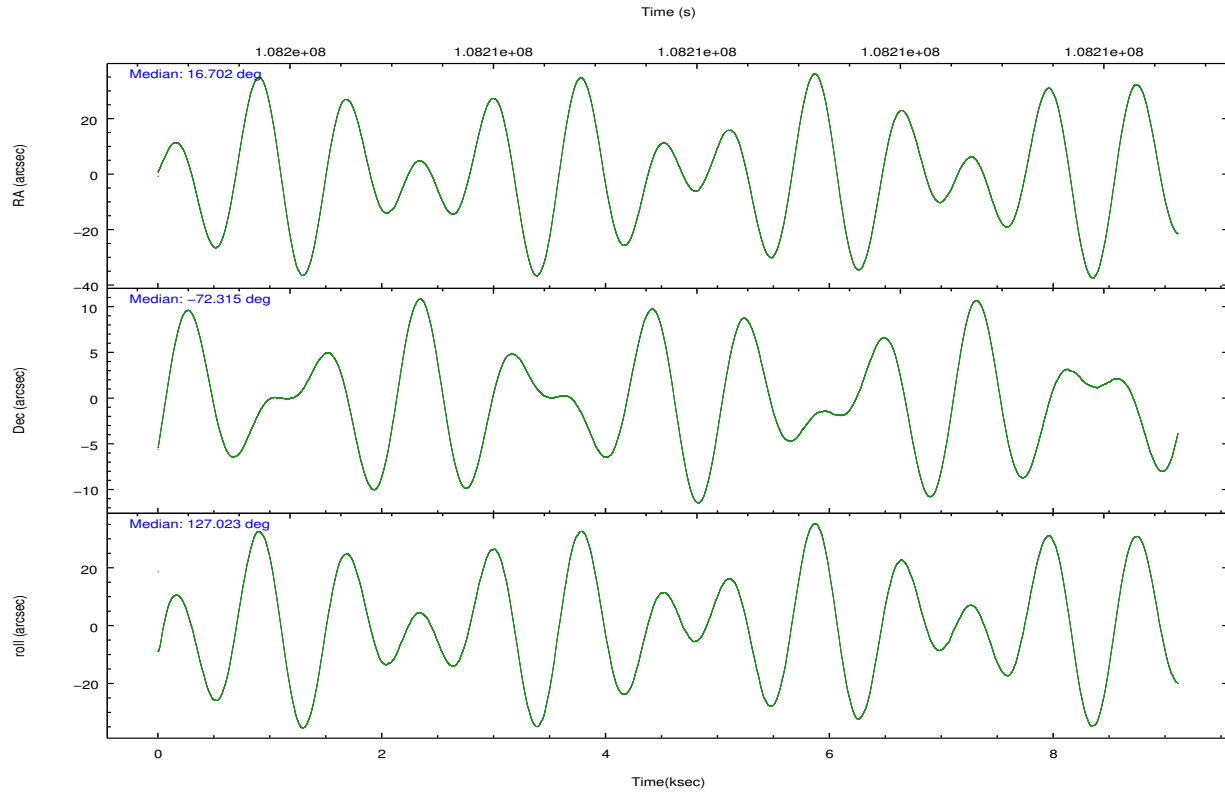
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	76636	75022	50532	64050	66540	51286	grade 0 events	20961	6988	2716	2683	4845	2544
rejected events	49971	38554	44257	37180	51798	45130		27%	9%	5%	4%	7%	4%
rejected %	65%	51%	87%	58%	77%	87%	grade 1 events	111	105	28	50	40	30
								0%	0%	0%	0%	0%	0%
							grade 2 events	2908	9599	1206	5288	3145	1232
								3%	12%	2%	8%	4%	2%
							grade 3 events	820	1546	573	2441	1604	577
								1%	2%	1%	3%	2%	1%
							grade 4 events	839	1428	585	2440	1488	569
								1%	1%	1%	3%	2%	1%
							grade 5 events	1780	5373	2158	6199	2762	2096
								2%	7%	4%	9%	4%	4%
							grade 6 events	1148	16925	1197	14033	3662	1236
								1%	22%	2%	21%	5%	2%
							grade 7 events	48069	33058	42069	30916	48994	43002
								62%	44%	83%	48%	73%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	16.784587	16.70150568755324	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.325164	-72.31479361541304	Alternating exposures requested	N	N
[deg] Pointing Roll	126.950849	127.0283185281336	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	107740864.184000	107740864.184000			
[s] Window stop time (MET)	110246464.184000	110246464.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	108204521.184000	108202974.64861			
Observation start date	2001-06-06T08:47:37	2001-06-06T08:22:54			
[s] Observation end time (MET)	108212276.184000	108212409.77398			
Observation end date	2001-06-06T10:56:52	2001-06-06T11:00:09			
Read mode	TIMED	TIMED			

2.3 Aspect



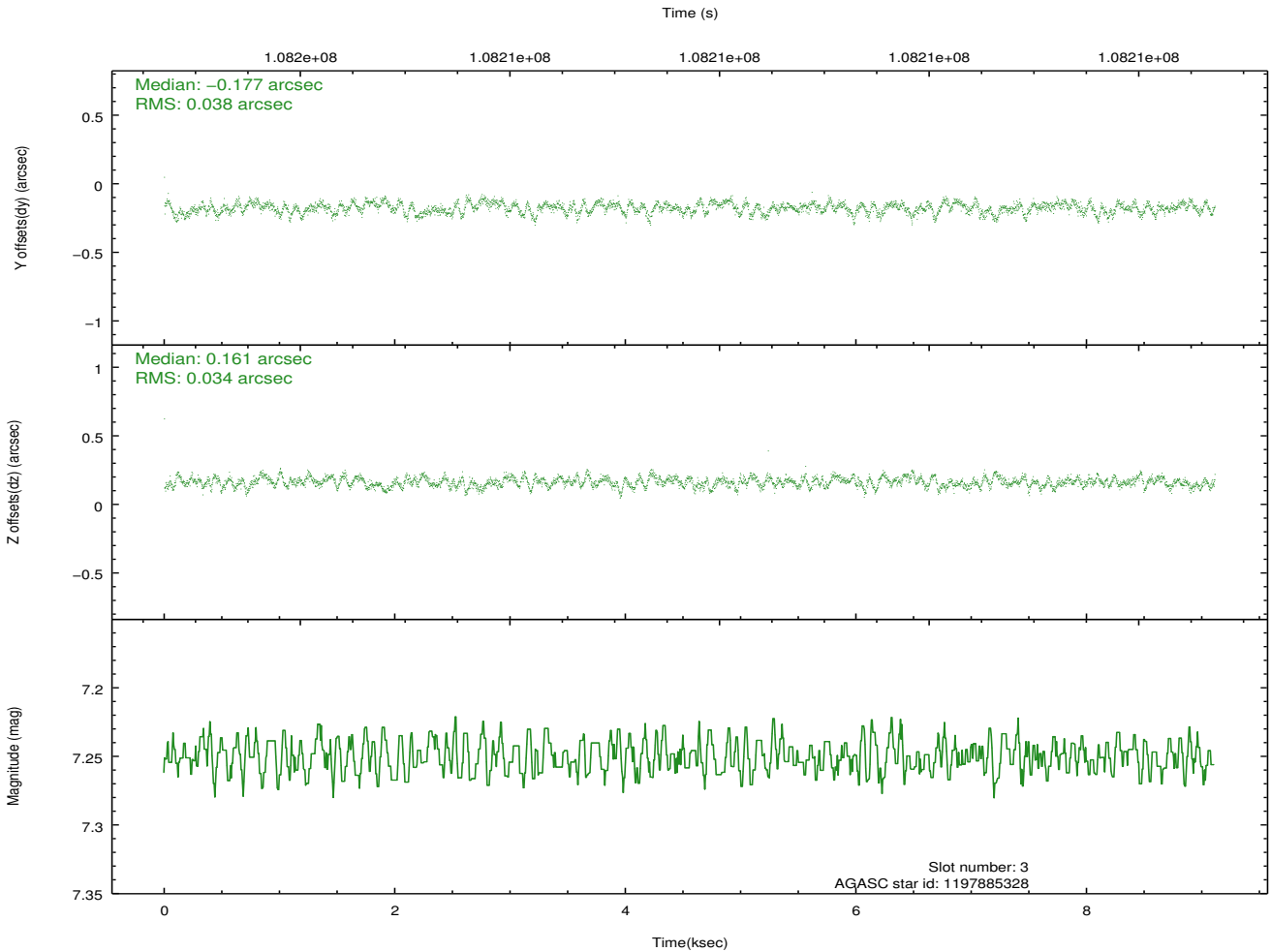
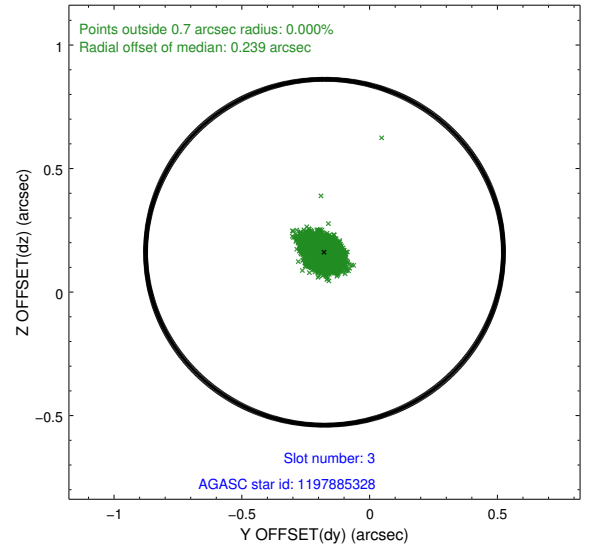
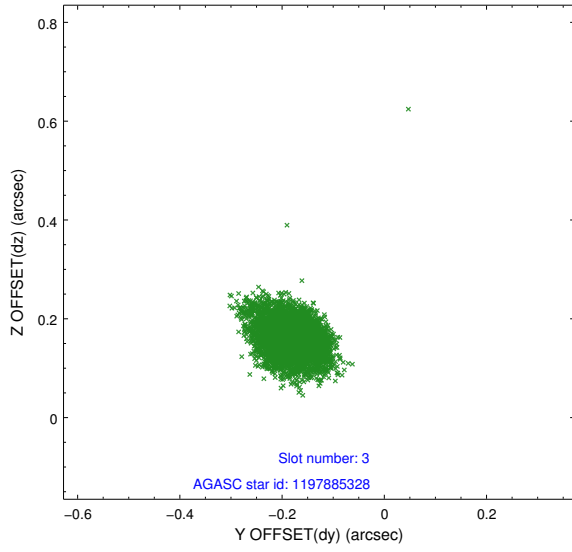


Slot Statistics

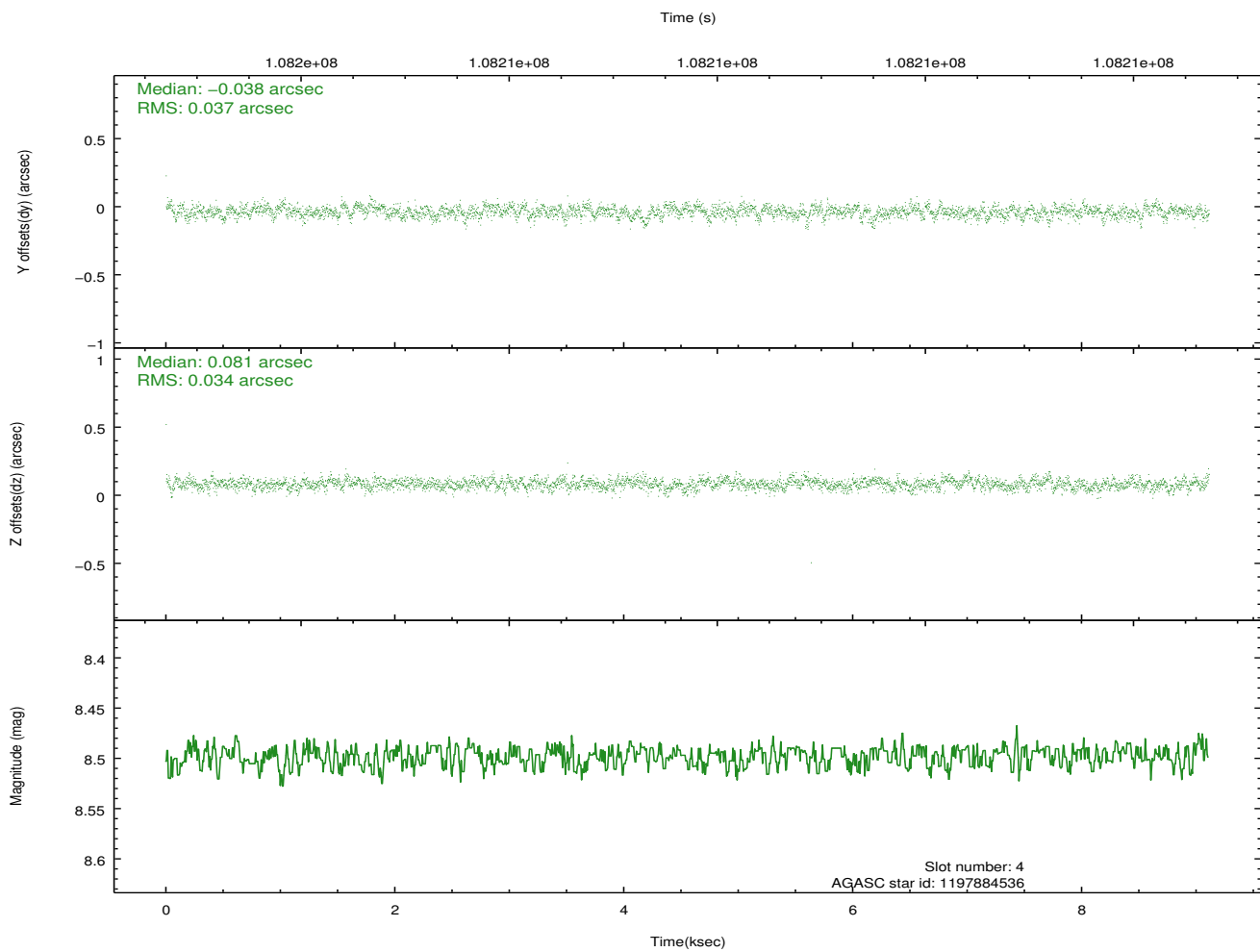
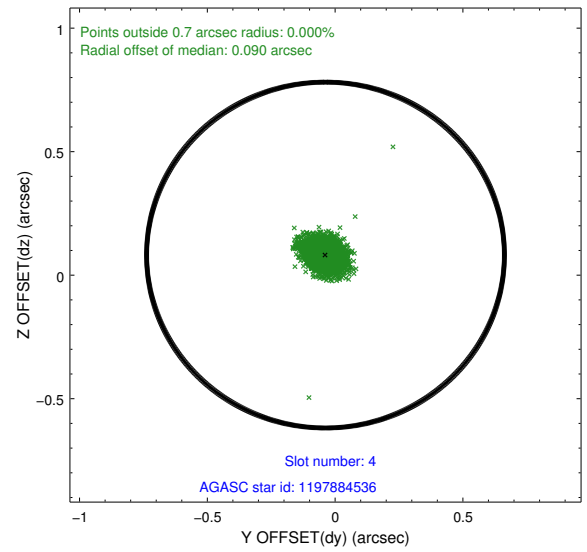
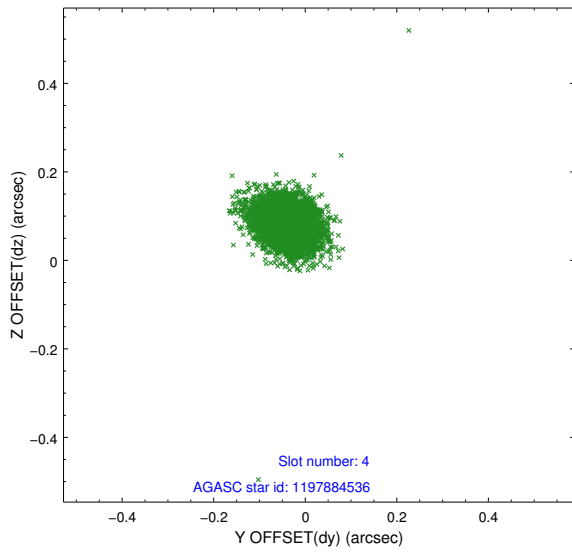
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2223	-0.023	0.012	0.006	0.010	0.000000	0.000000	-755.39	-1726.86
1	FID	ACIS-S-4	7.20	2223	-0.049	0.008	0.005	0.010	0.000000	0.000000	2157.55	181.07
2	FID	ACIS-S-5	7.24	2223	0.041	-0.011	0.006	0.010	0.000000	0.000000	-1807.44	175.30
3	GUIDE	1197885328	7.25	4446	-0.177	0.161	0.053	0.087	16.283090	-71.733943	2039.66	-825.60
4	GUIDE	1197884536	8.50	4444	-0.038	0.081	0.052	0.086	17.160729	-71.835289	1155.70	-1396.65
5	GUIDE	1197884712	8.29	4446	0.016	-0.131	0.063	0.103	16.087398	-72.252690	665.68	456.87
6	GUIDE	1198283128	7.58	4446	-0.028	-0.082	0.042	0.067	17.272580	-72.642428	-1228.81	268.98
7	GUIDE	1198282744	9.00	4441	0.231	-0.031	0.095	0.157	17.028326	-73.013356	-2134.02	1284.67

2.4 Star Slots

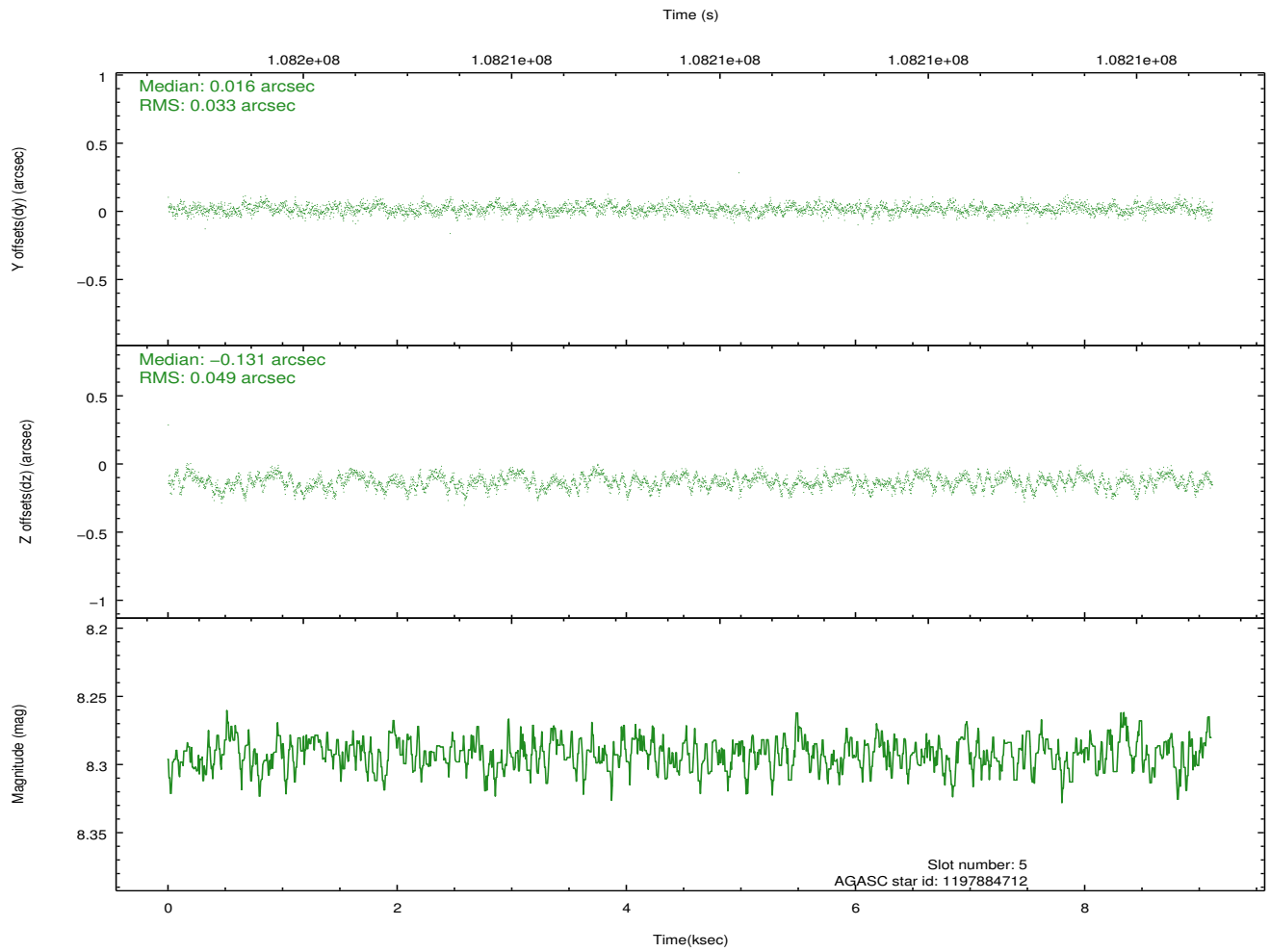
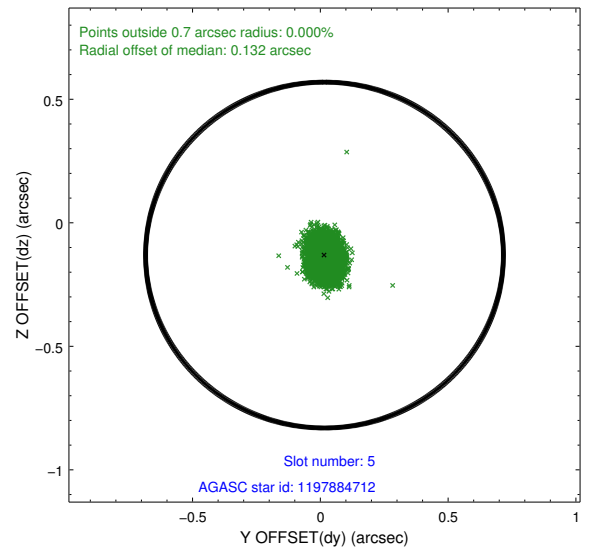
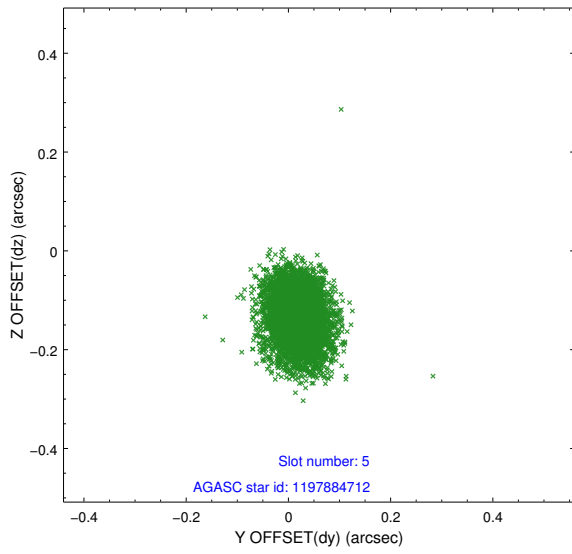
2.4.1 Slot 3



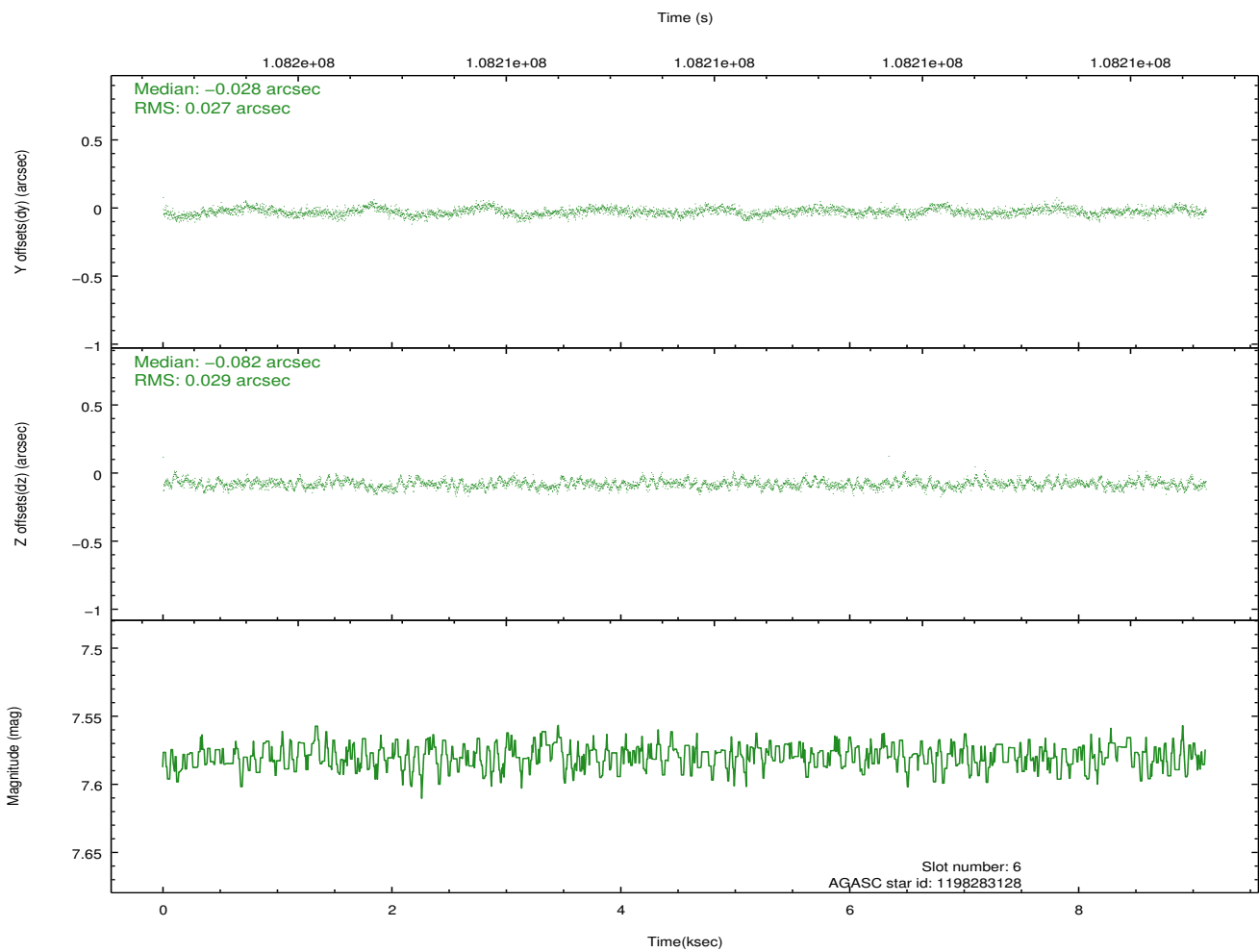
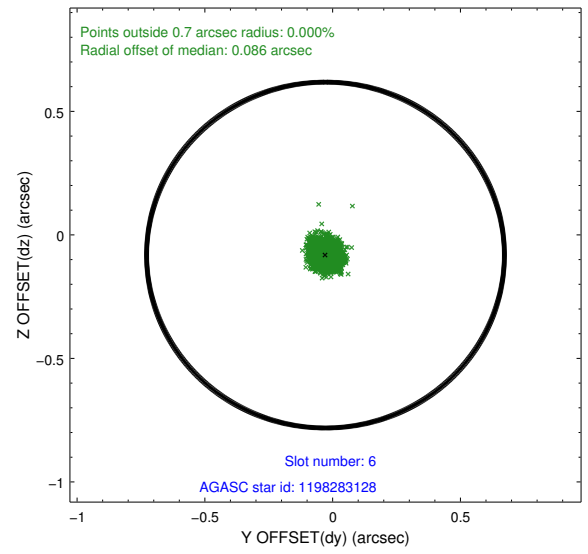
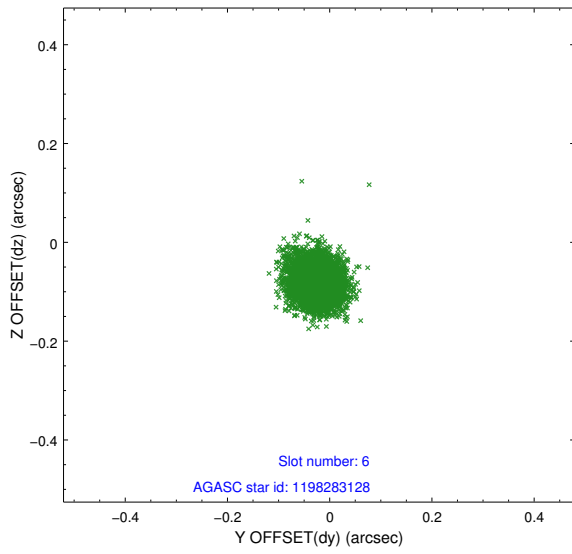
2.4.2 Slot 4



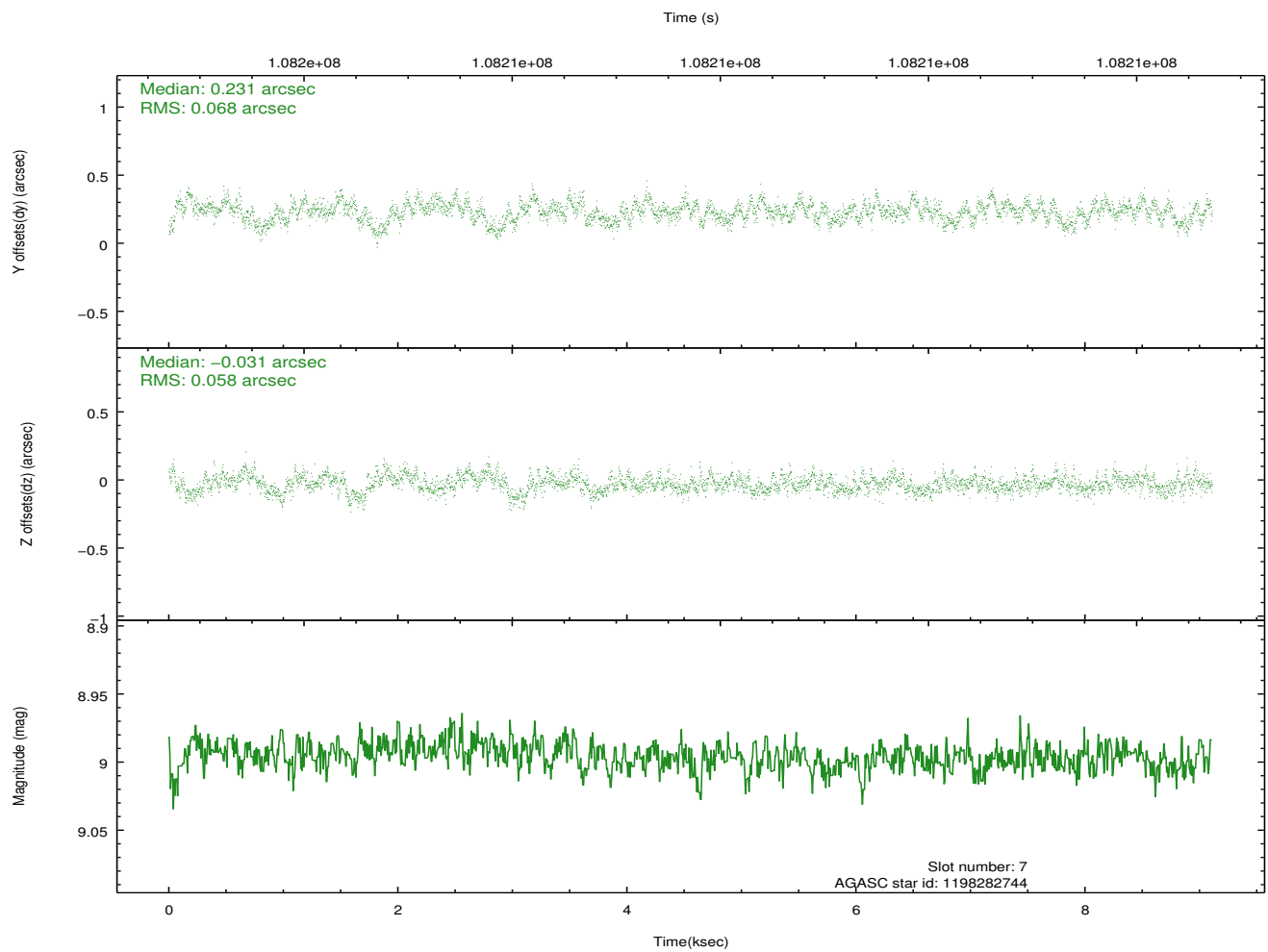
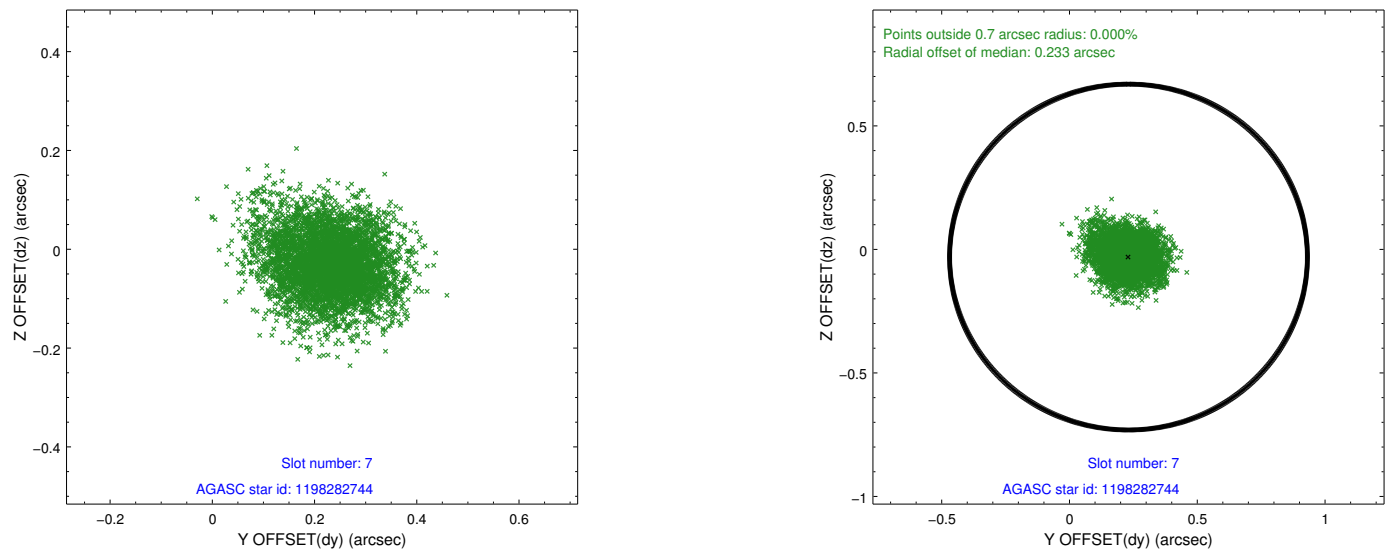
2.4.3 Slot 5



2.4.4 Slot 6

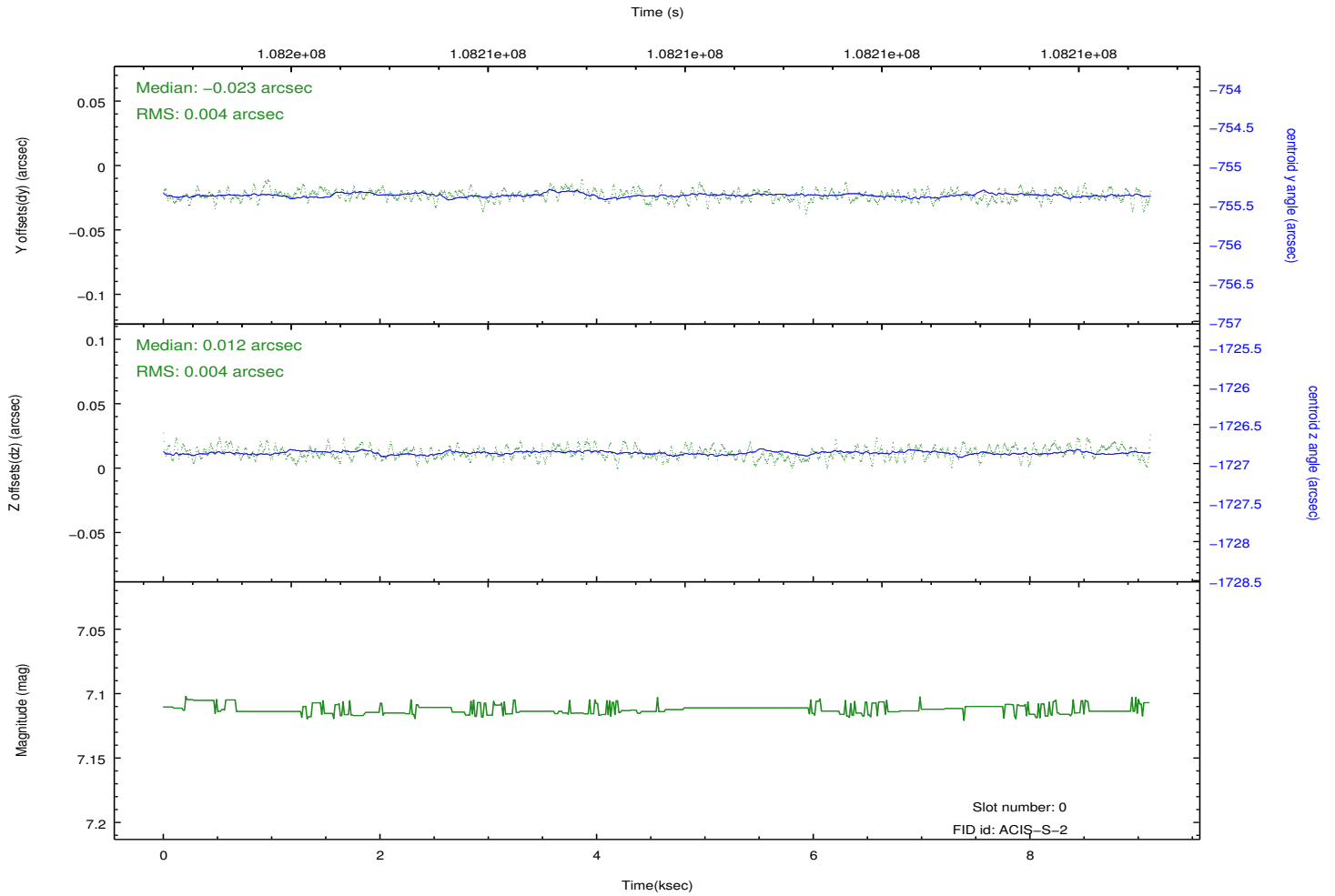
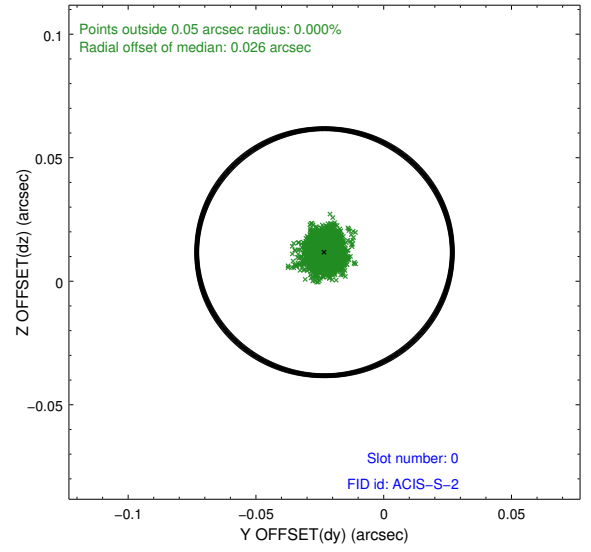
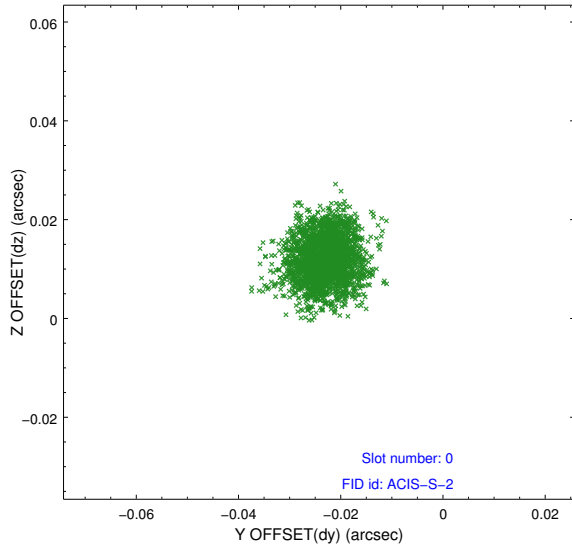


2.4.5 Slot 7

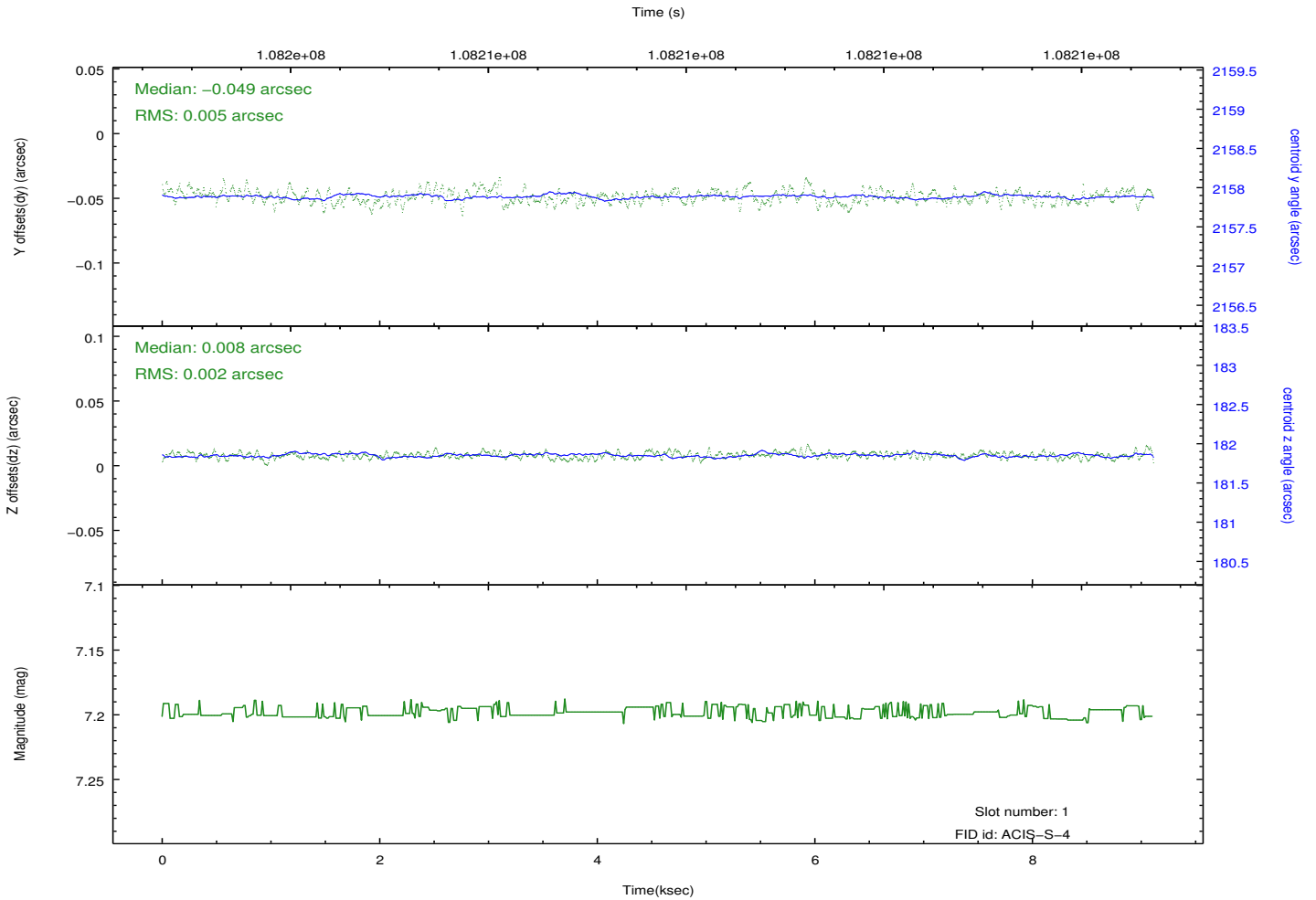
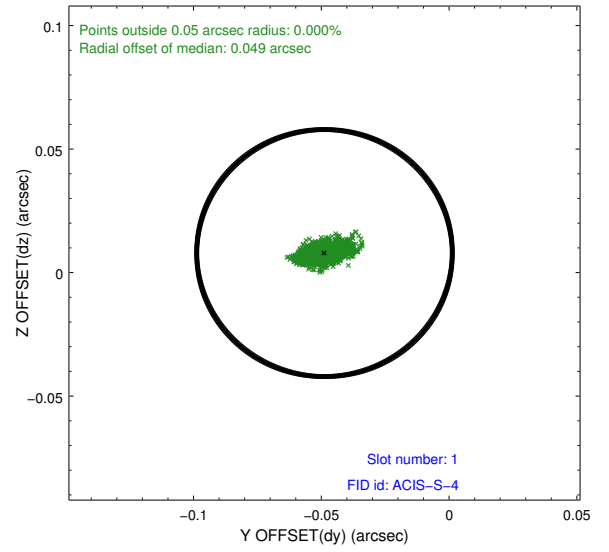
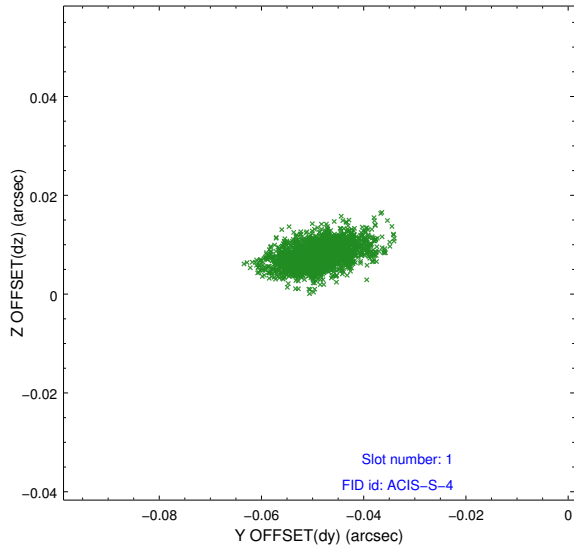


2.5 FID Slots

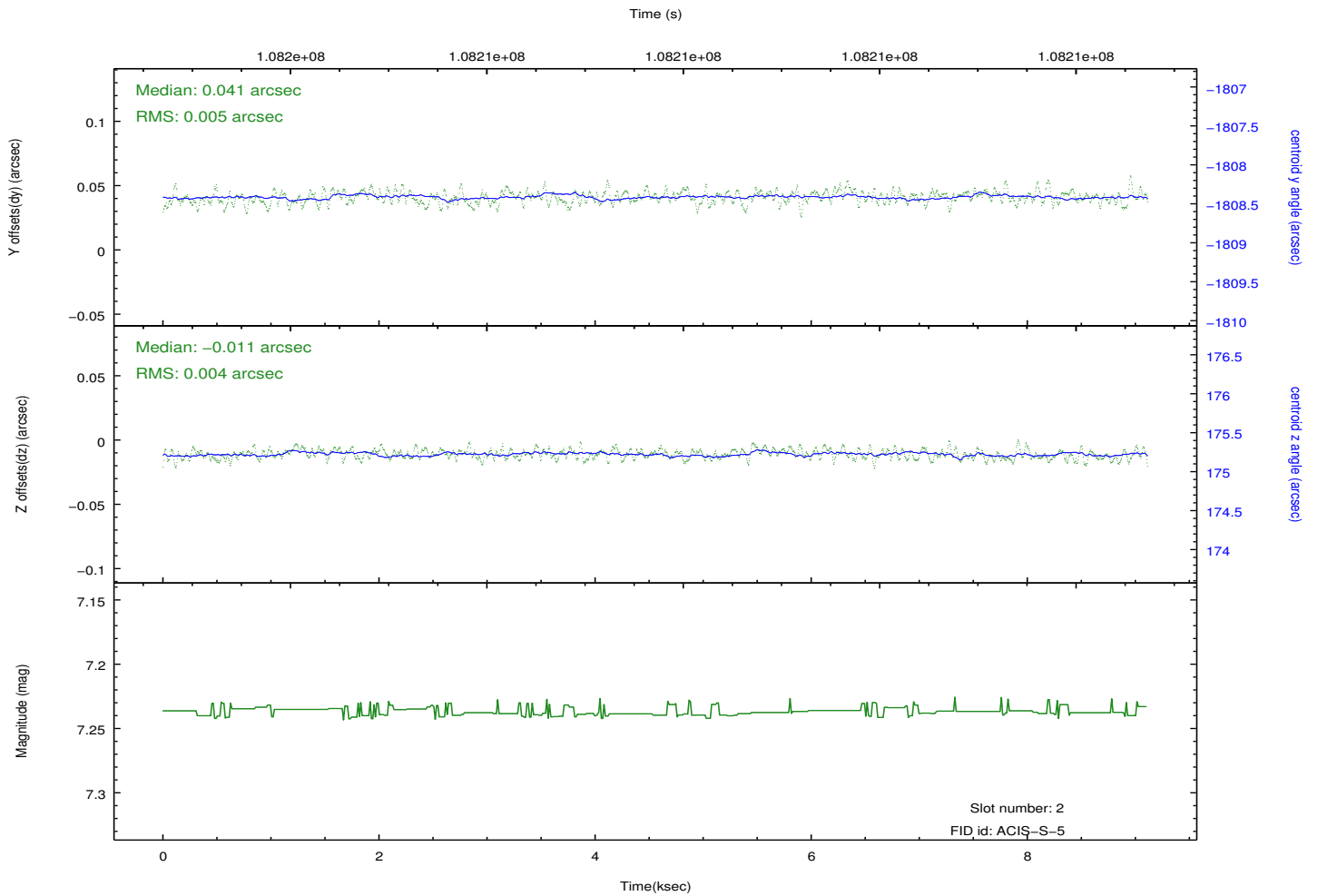
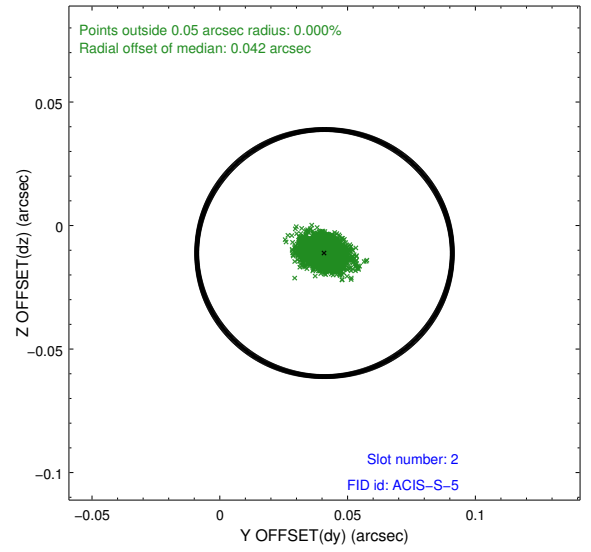
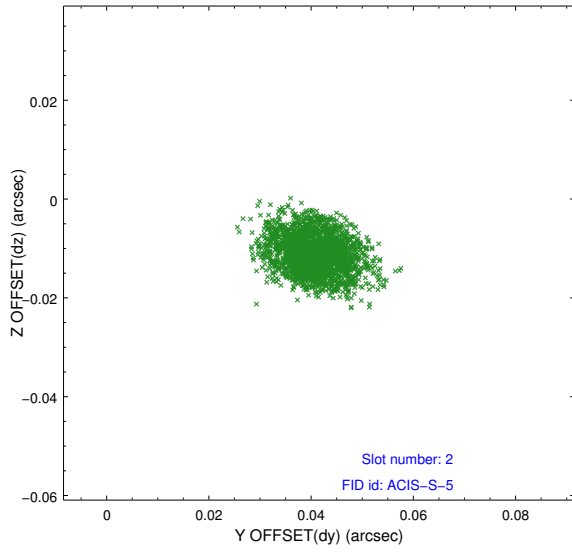
2.5.1 Slot 0



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)	2012.09.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7

A.2 Comments

Window constraint OK.