

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1781 - L2 Version 5
Chandra X-Ray Center

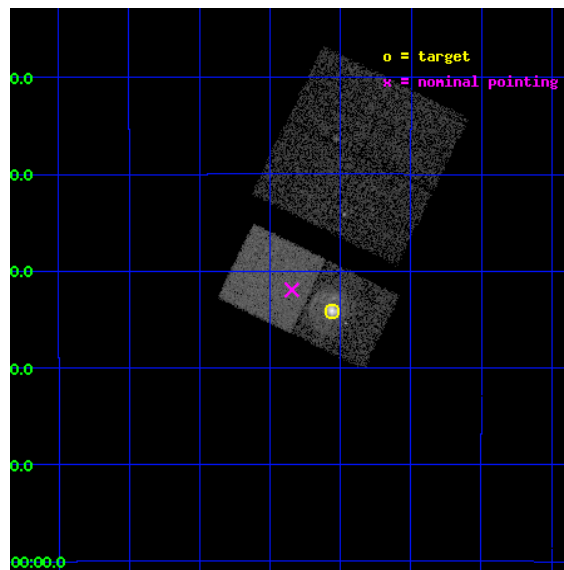
L2 Processing Date : Aug 30 2012

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1 Front

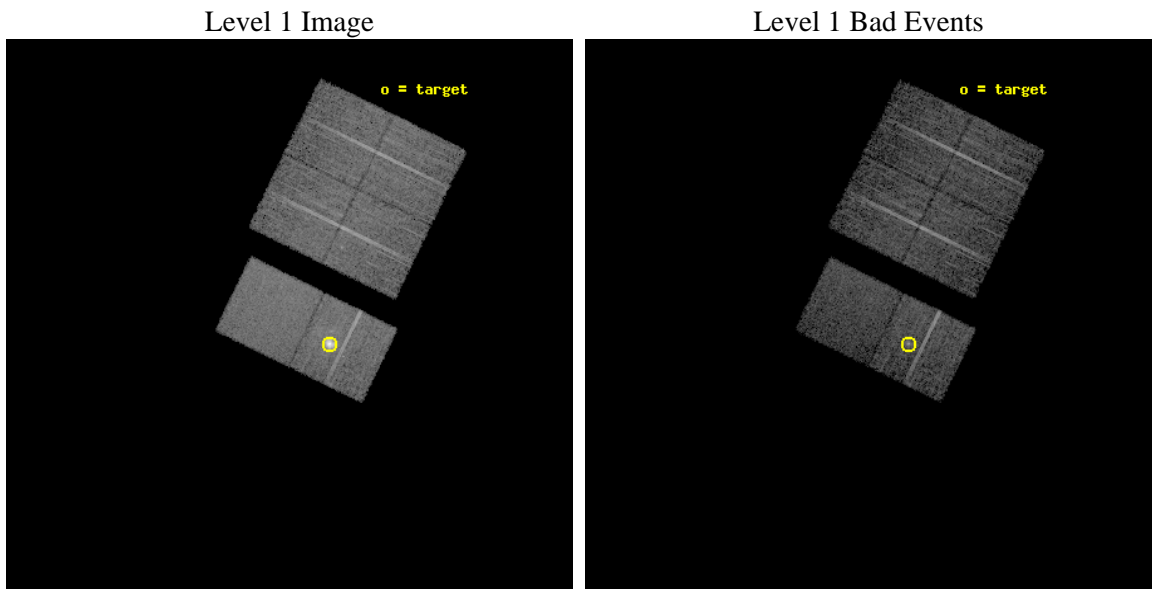
seq_num	590207	Sequence number
obs_id	1781	Observation id
title	HRC RESPONSE TO CONTINUUM SOURCE.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-0.9 [Chip S2, T=110, Offsets=5,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.389583	Observer's specified target RA [deg]
dec_targ	-10.568528	Observer's specified target Dec [deg]
ra_nom	278.46121307673	Nominal RA [deg]
dec_nom	-10.53243263397	Nominal Dec [deg]
roll_nom	206.01693070185	Nominal Roll [deg]
revision	5	Processing version of data
ontime	7318.4000068009	Sum of GTIs [s]
livetime	7225.7300193033	Livetime [s]
ontime0	7318.4000068009	Sum of GTIs [s]
ontime1	7318.4000068009	Sum of GTIs [s]
ontime2	7318.4000068009	Sum of GTIs [s]
ontime3	7318.4000068009	Sum of GTIs [s]
ontime6	7318.4000068009	Sum of GTIs [s]
ontime7	7318.4000068009	Sum of GTIs [s]
l2events	65590	Number of level 2 events



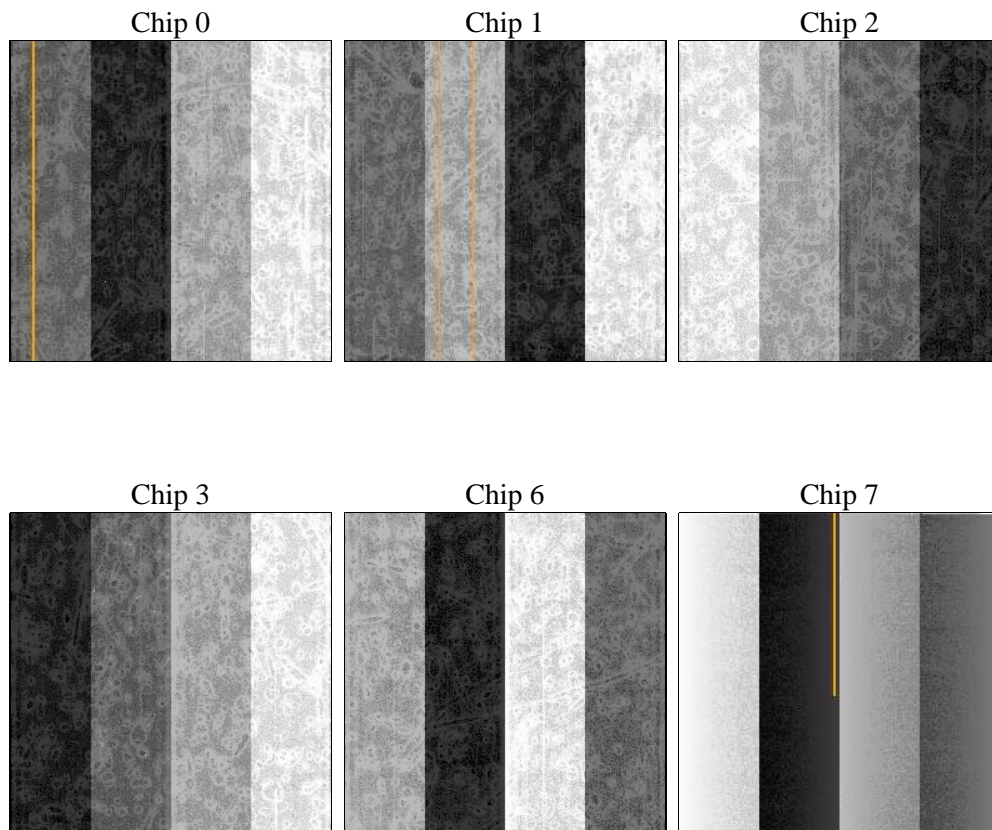
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7560.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7318.4000068009	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime0	7318.4000068009	Sum of GTIs [s]
date	2012-08-30T03:40:01	Date and time of file creation	ontime1	7318.4000068009	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	7318.4000068009	Sum of GTIs [s]
			ontime3	7318.4000068009	Sum of GTIs [s]
			ontime6	7318.4000068009	Sum of GTIs [s]
			ontime7	7318.4000068009	Sum of GTIs [s]
			l1events	331490	Number of level 1 events

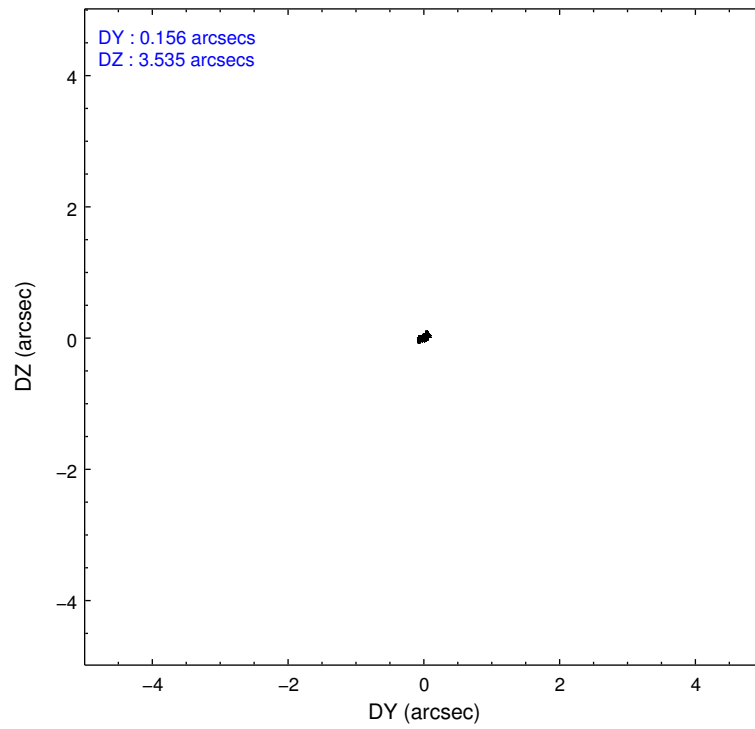
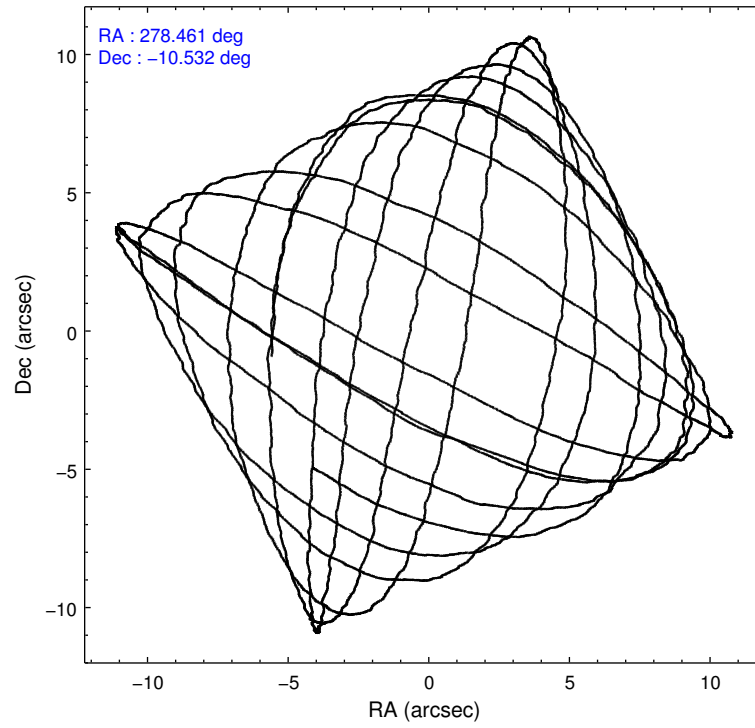
2.1.4 Events

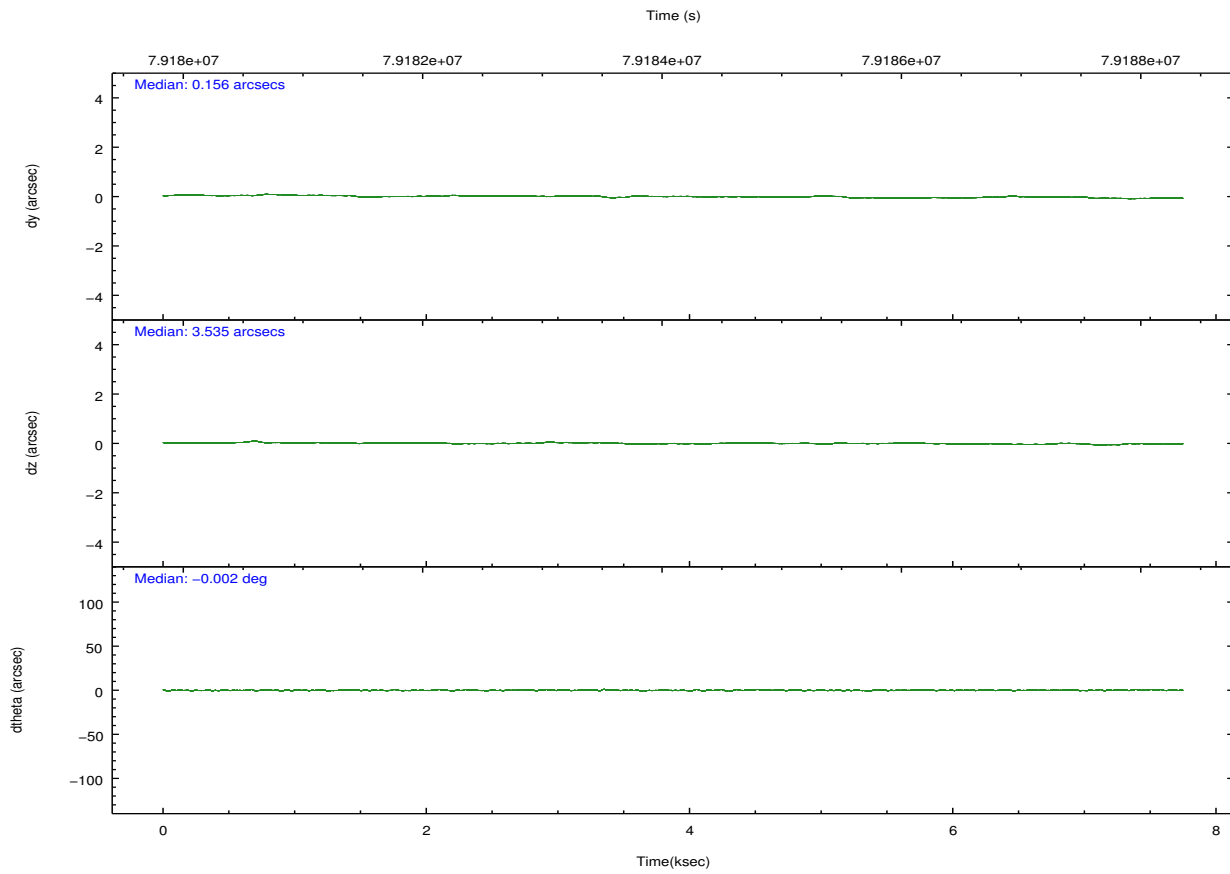
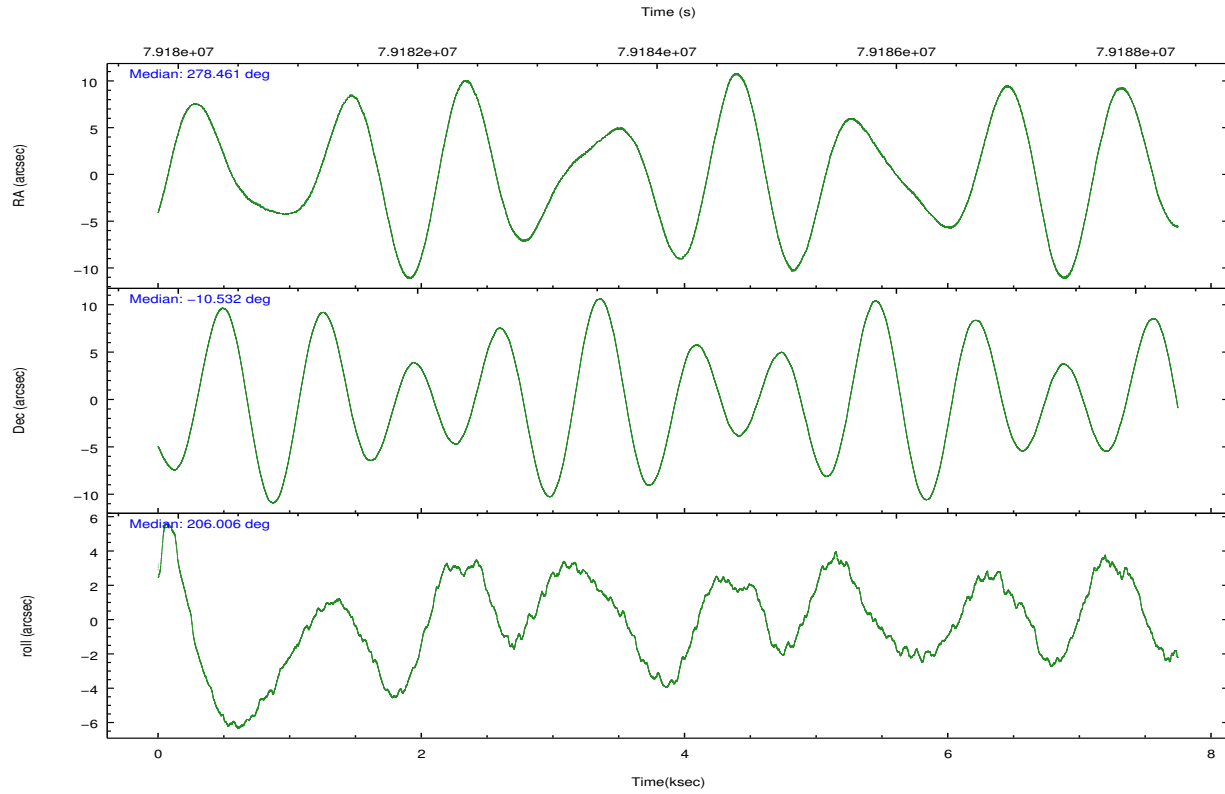
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	51224	46183	50627	50596	75113	57747	grade 0 events	1397	1328	1260	1135	11354	1371
rejected events	45722	40665	45279	45404	47490	35657		2%	2%	2%	2%	15%	2%
rejected %	89%	88%	89%	89%	63%	61%	grade 1 events	10	9	6	3	77	22
								0%	0%	0%	0%	0%	0%
							grade 2 events	2077	2027	2279	2146	11321	4764
								4%	4%	4%	4%	15%	8%
							grade 3 events	398	415	288	327	875	1424
								0%	0%	0%	0%	1%	2%
							grade 4 events	363	372	307	301	865	1236
								0%	0%	0%	0%	1%	2%
							grade 5 events	1089	1084	881	1032	1308	3558
								2%	2%	1%	2%	1%	6%
							grade 6 events	1272	1382	1222	1286	3232	13309
								2%	2%	2%	2%	4%	23%
							grade 7 events	44618	39566	44384	44366	46081	32063
								87%	85%	87%	87%	61%	55%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	278.476606	278.4612130767251	Subarray requested	NONE	NONE
[deg] Pointing Dec	-10.509650	-10.53243263396973	Alternating exposures requested	N	N
[deg] Pointing Roll	205.863107	206.0169307018546	[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	-189.459123	-189.4561722878476			
[mm] SIM translation stage offset	-0.6734	-0.6763502951602334			
[s] Observation start time (MET)	79180406.184000	79180029.86637799			
Observation start date	2000-07-05T10:32:22	2000-07-05T10:27:09			
[s] Observation end time (MET)	79187966.184000	79188099.69167601			
Observation end date	2000-07-05T12:38:22	2000-07-05T12:41:39			
Read mode	TIMED	TIMED			

2.3 Aspect



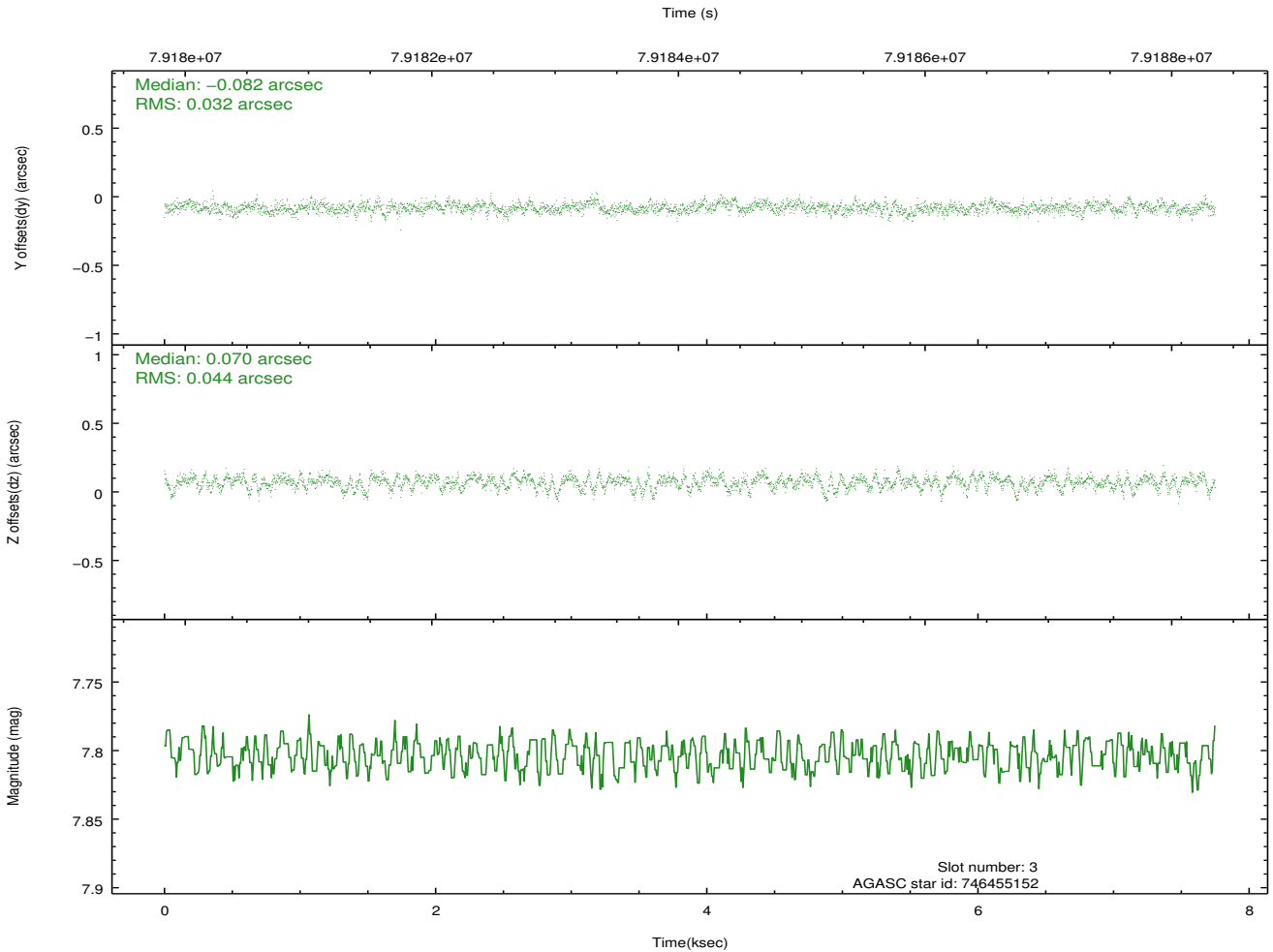
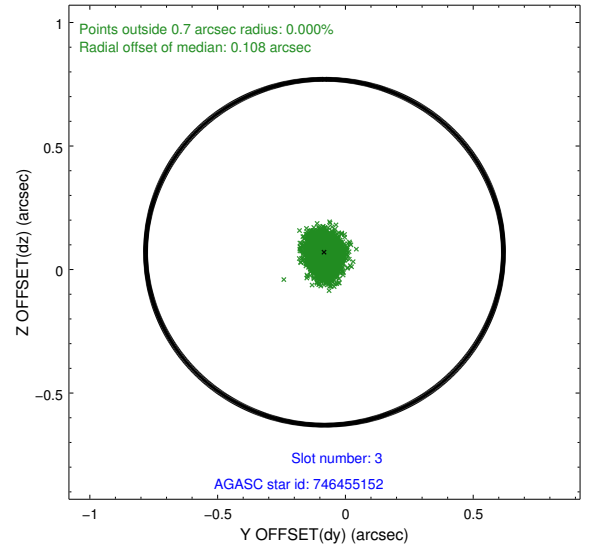
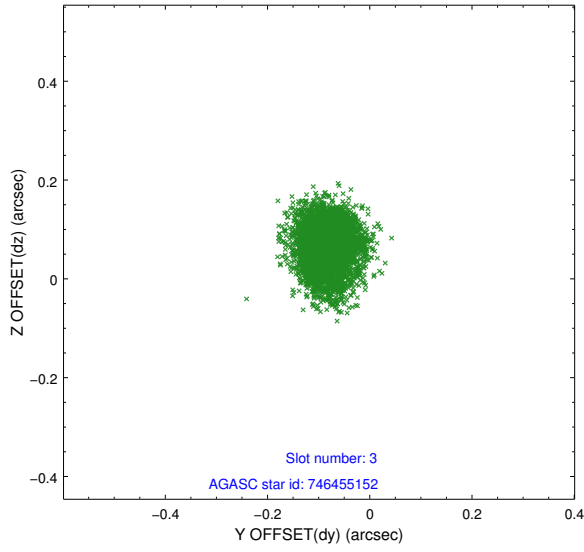


Slot Statistics

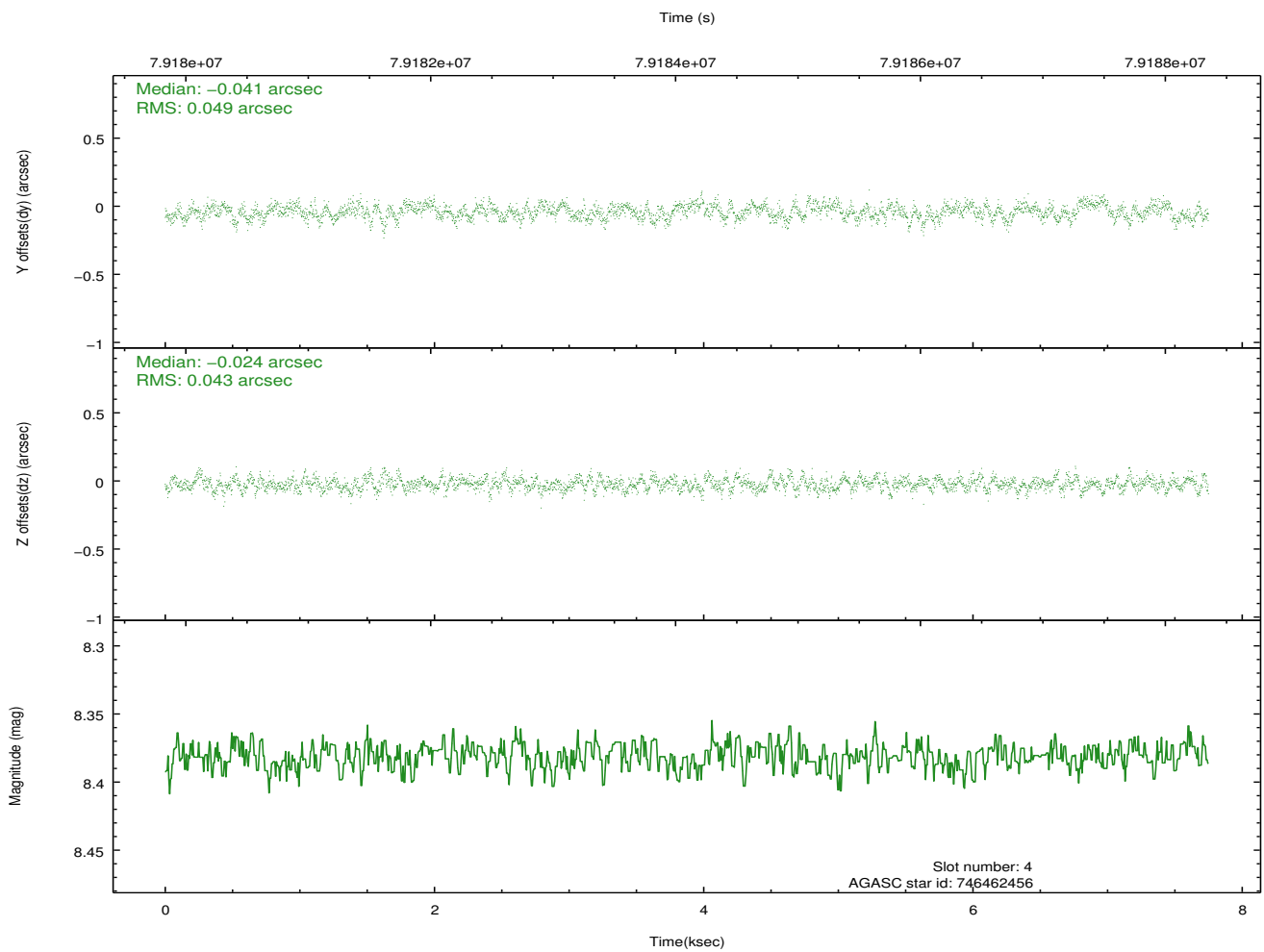
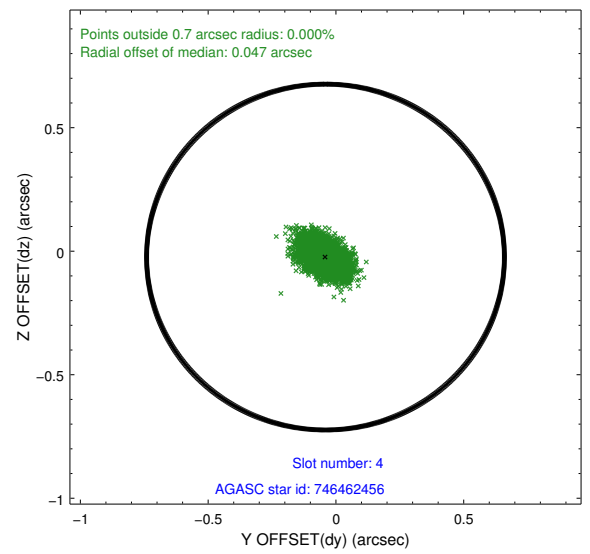
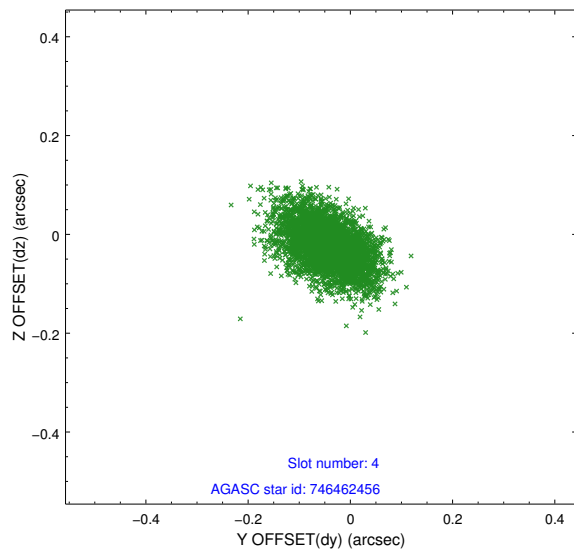
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	1890	-0.037	-0.088	0.007	0.012	0.000000	0.000000	60.44	-1867.85
1	FID	ACIS-S-4	7.20	1889	0.058	0.062	0.006	0.010	0.000000	0.000000	2160.77	168.96
2	FID	ACIS-S-5	7.24	1888	-0.050	0.036	0.006	0.011	0.000000	0.000000	-1804.62	163.62
3	GUIDE	746455152	7.80	3777	-0.082	0.070	0.057	0.095	278.447893	-9.976732	-744.93	-1770.34
4	GUIDE	746462456	8.38	3781	-0.041	-0.024	0.069	0.114	278.652171	-10.530173	-527.02	337.68
5	GUIDE	746462392	8.55	3781	-0.120	-0.072	0.078	0.131	279.038421	-10.890715	-1188.58	2102.87
6	GUIDE	746455112	8.93	3780	0.210	-0.040	0.064	0.107	278.266531	-10.703234	972.71	304.37
7	GUIDE	746460328	9.81	3775	0.025	0.068	0.100	0.166	278.603974	-9.898096	-1366.08	-1783.55

2.4 Star Slots

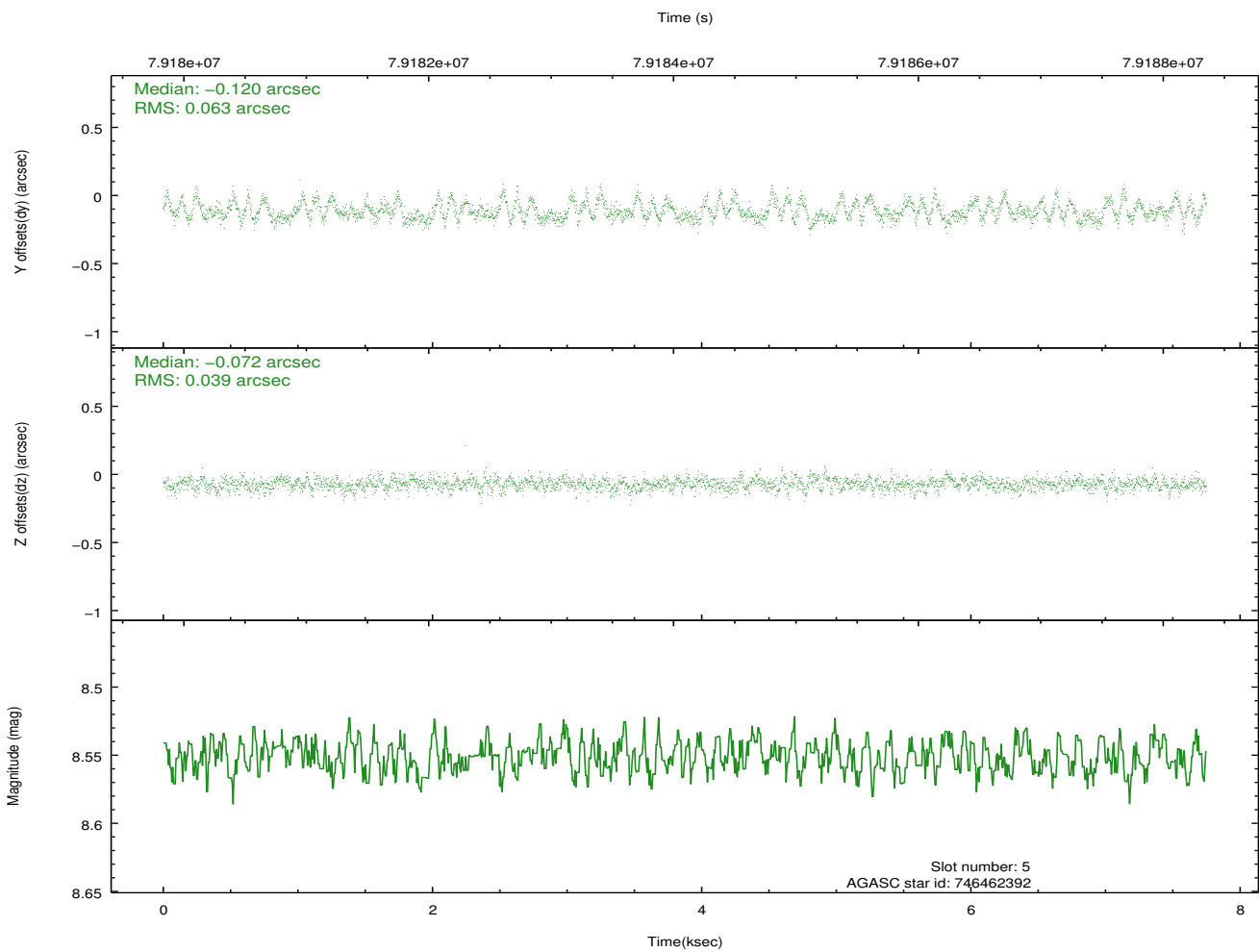
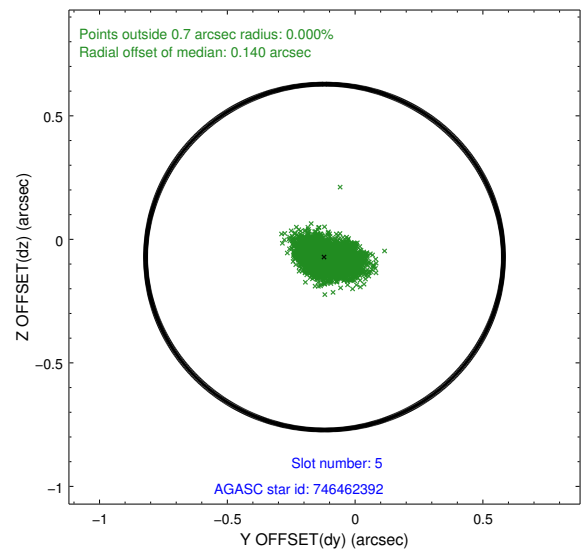
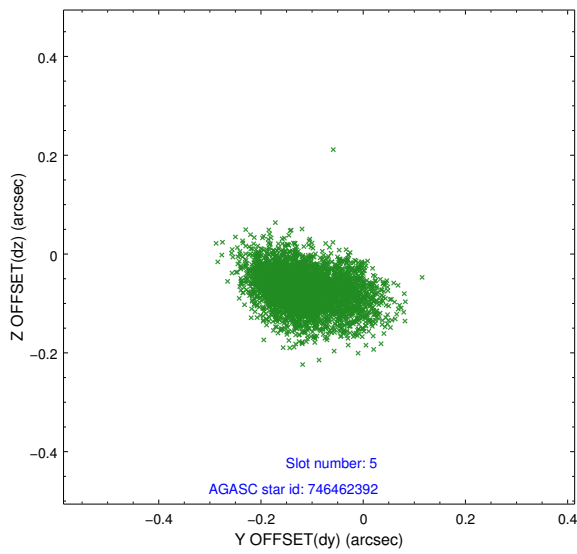
2.4.1 Slot 3



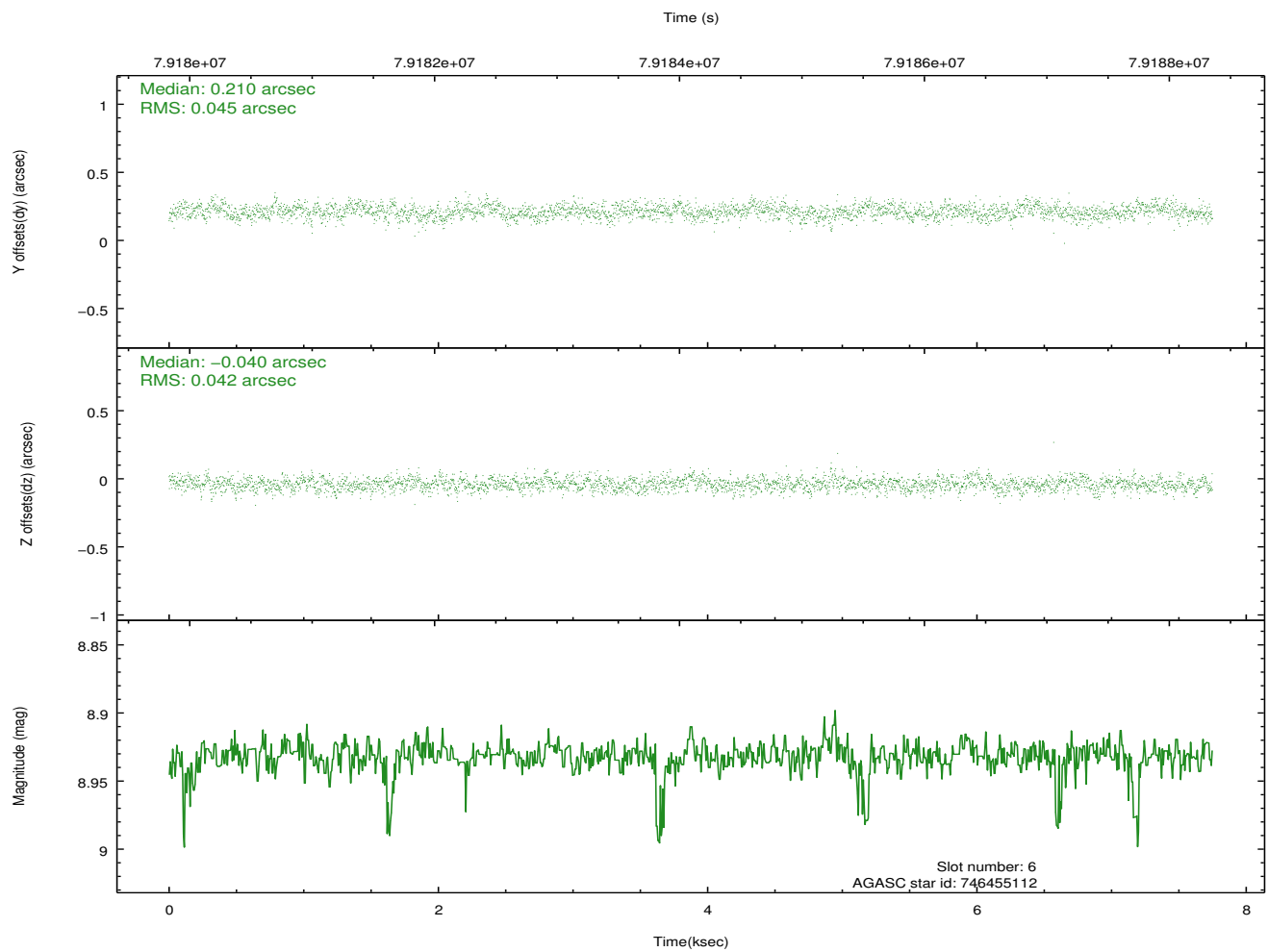
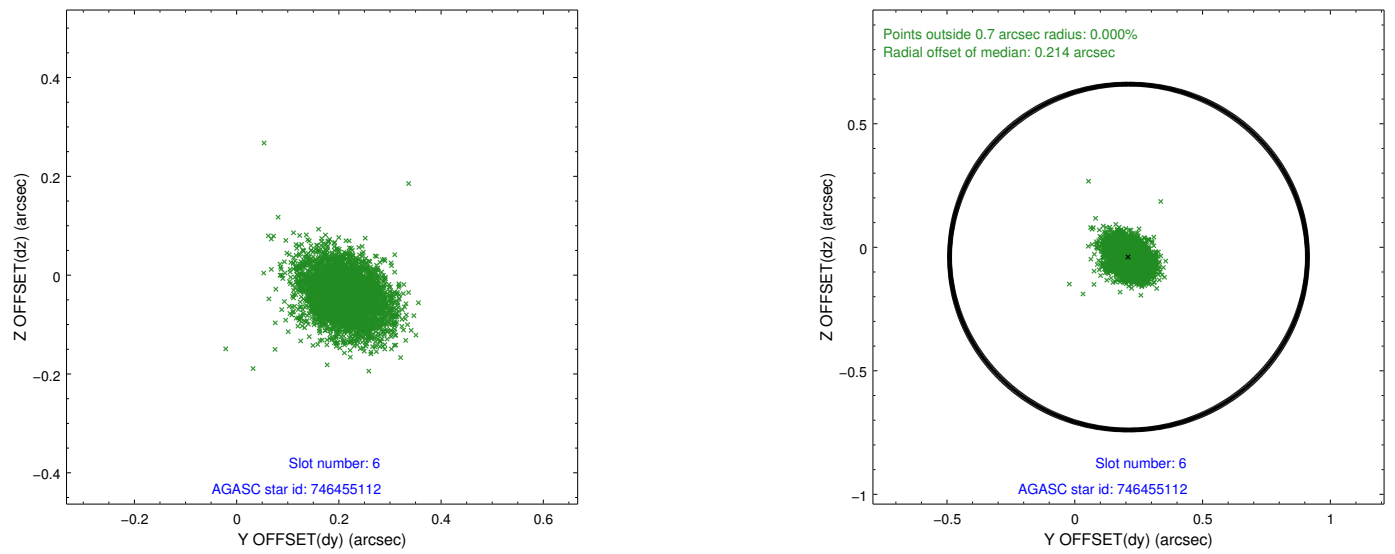
2.4.2 Slot 4



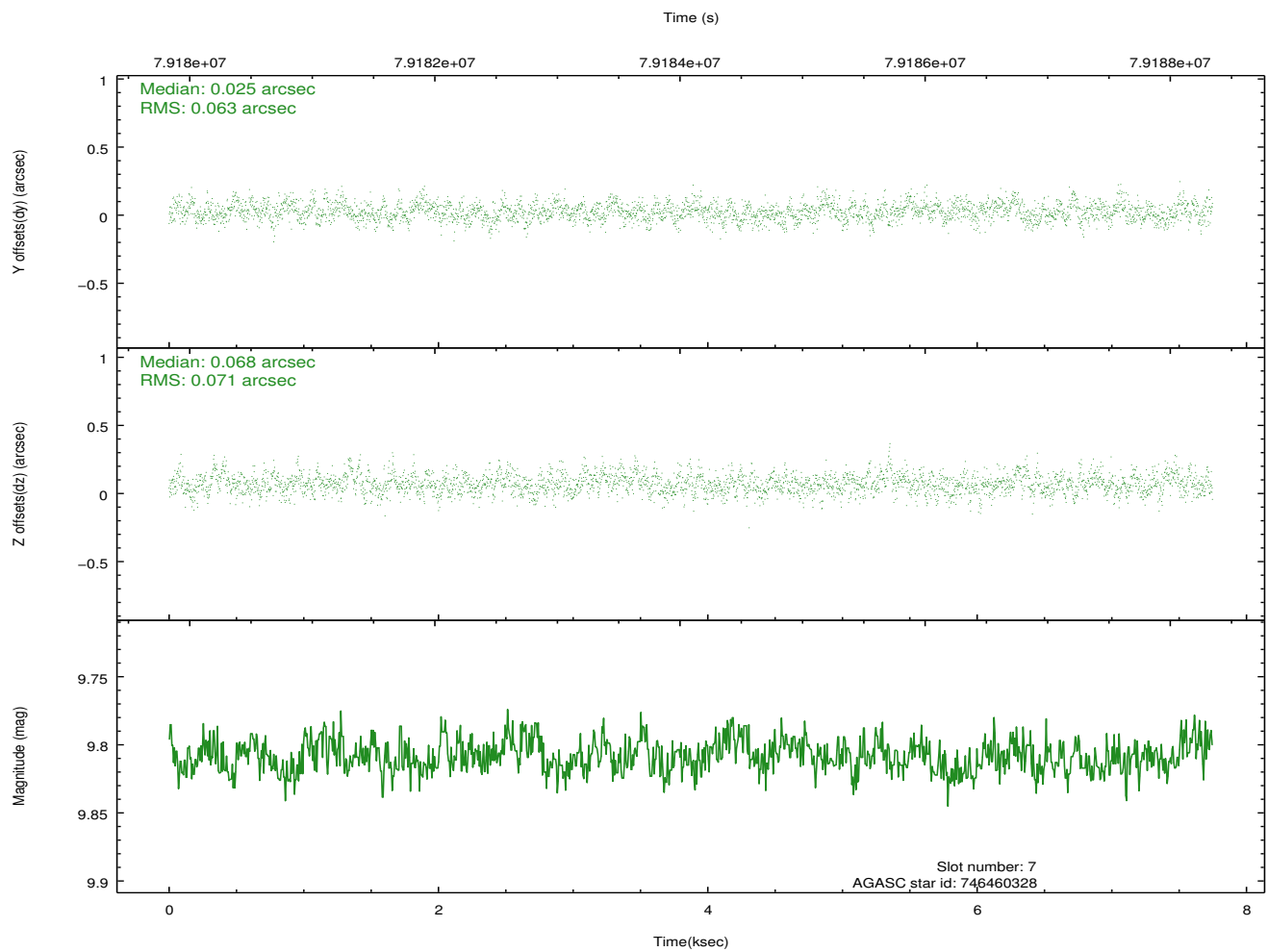
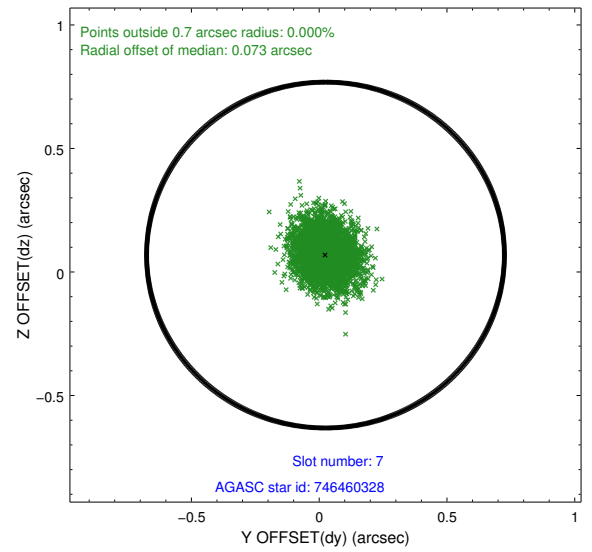
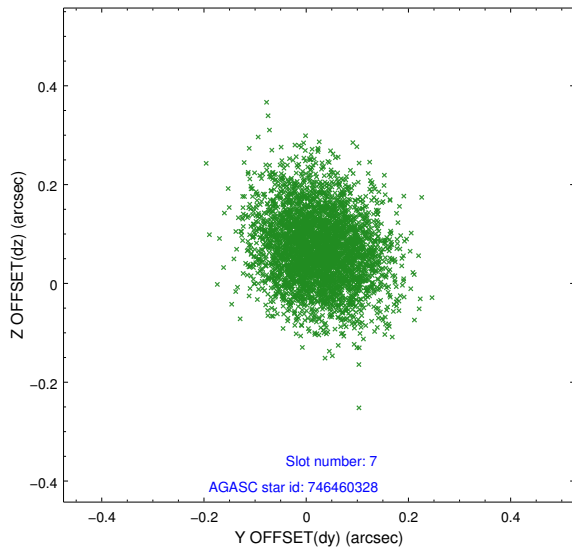
2.4.3 Slot 5



2.4.4 Slot 6

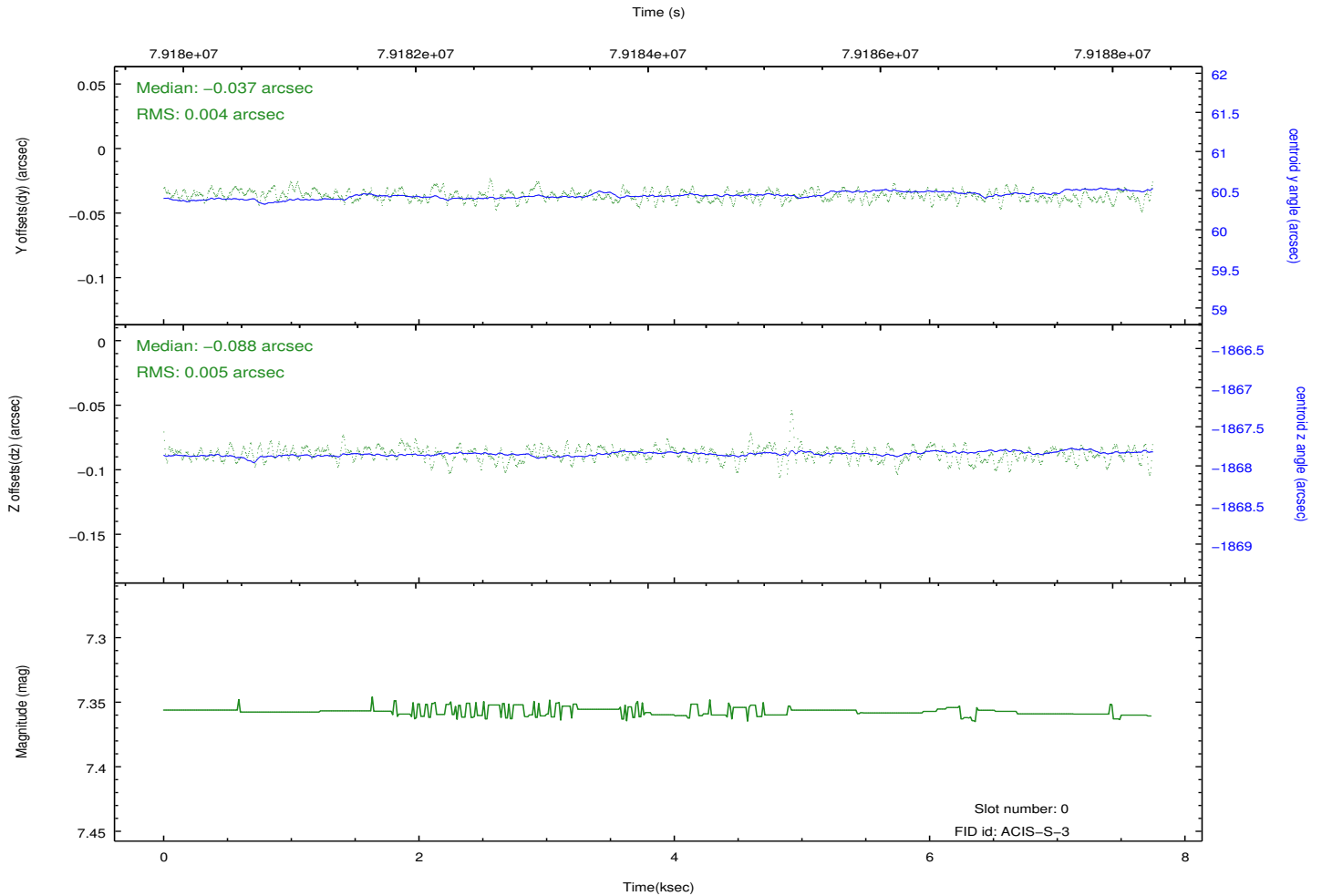
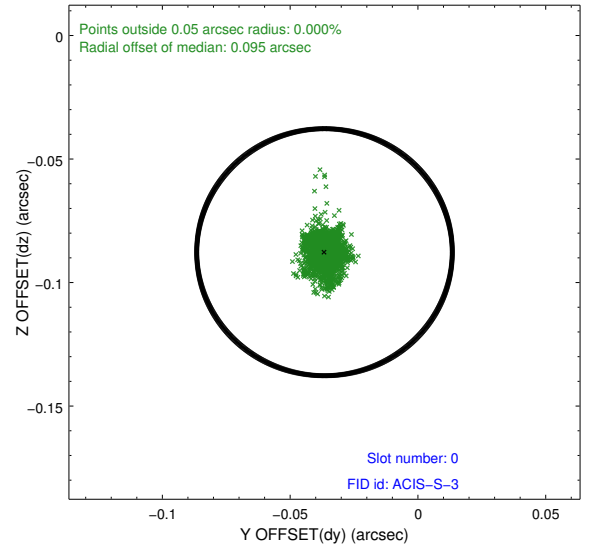
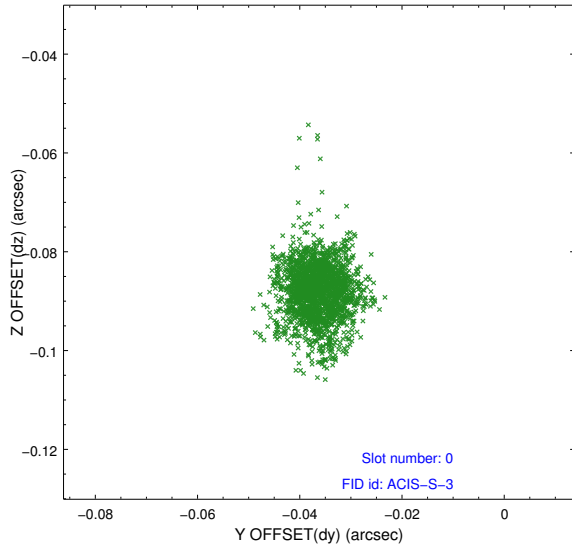


2.4.5 Slot 7

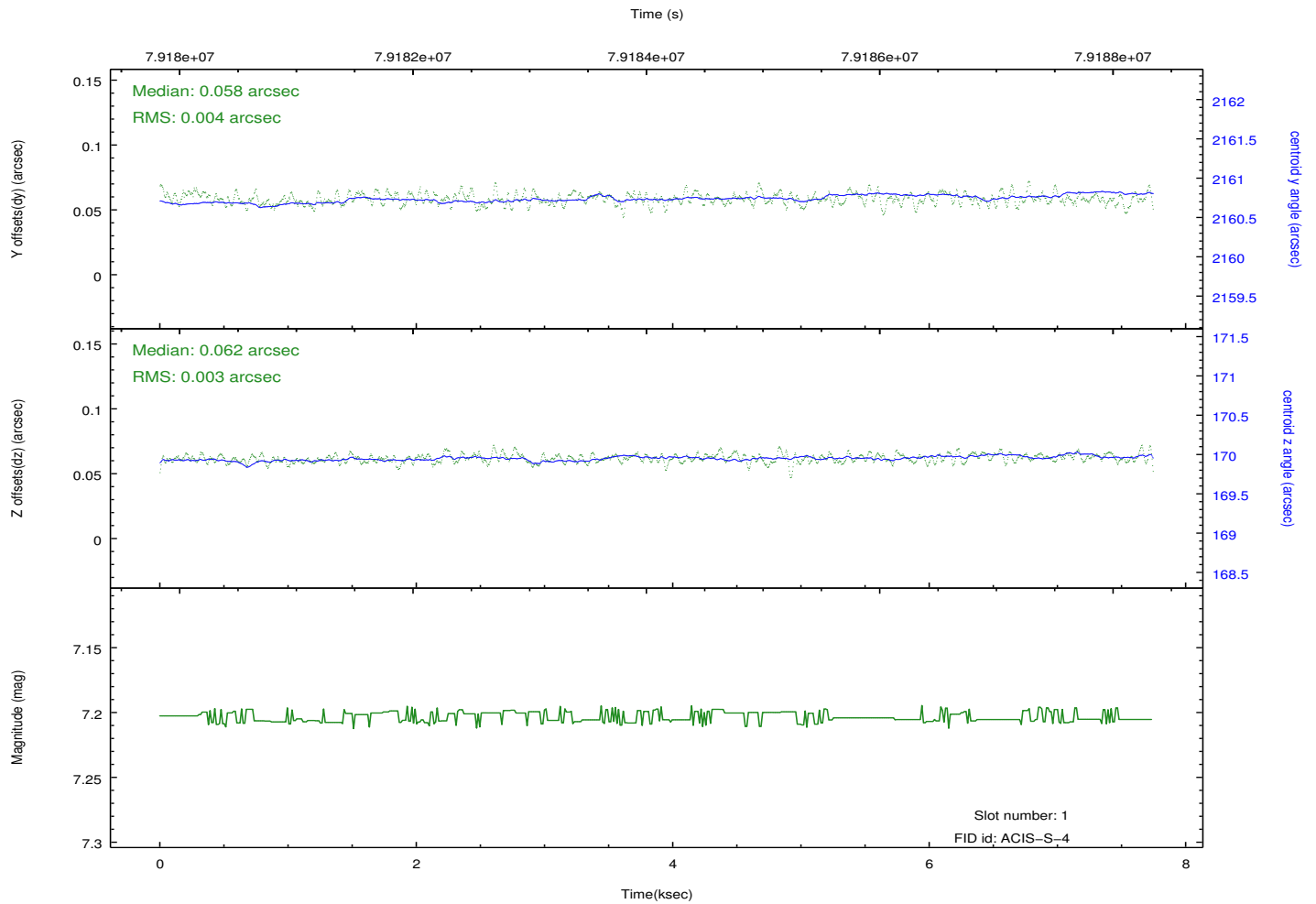
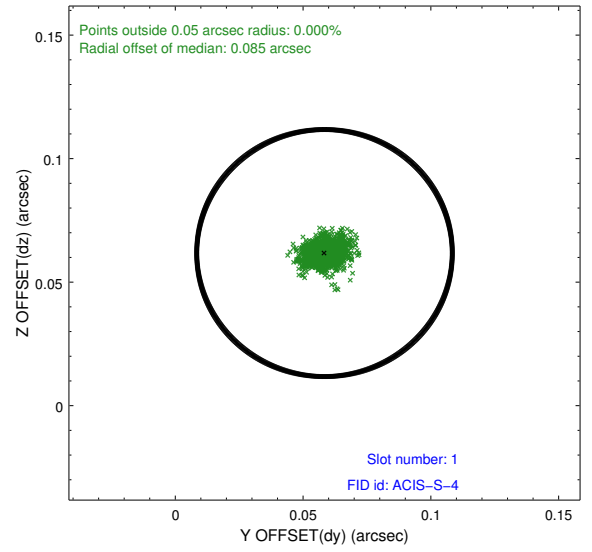
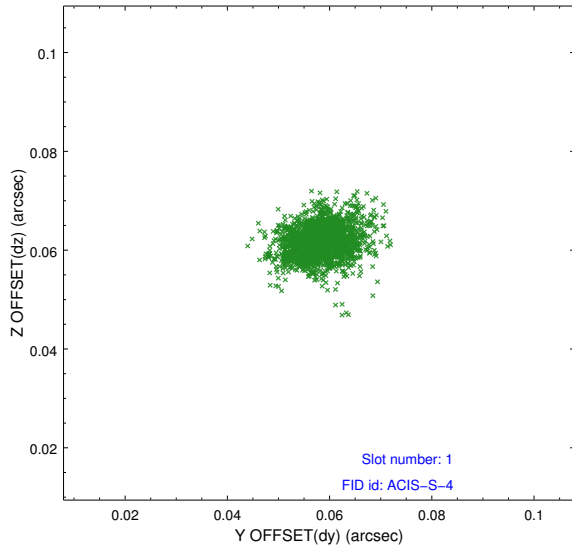


2.5 FID Slots

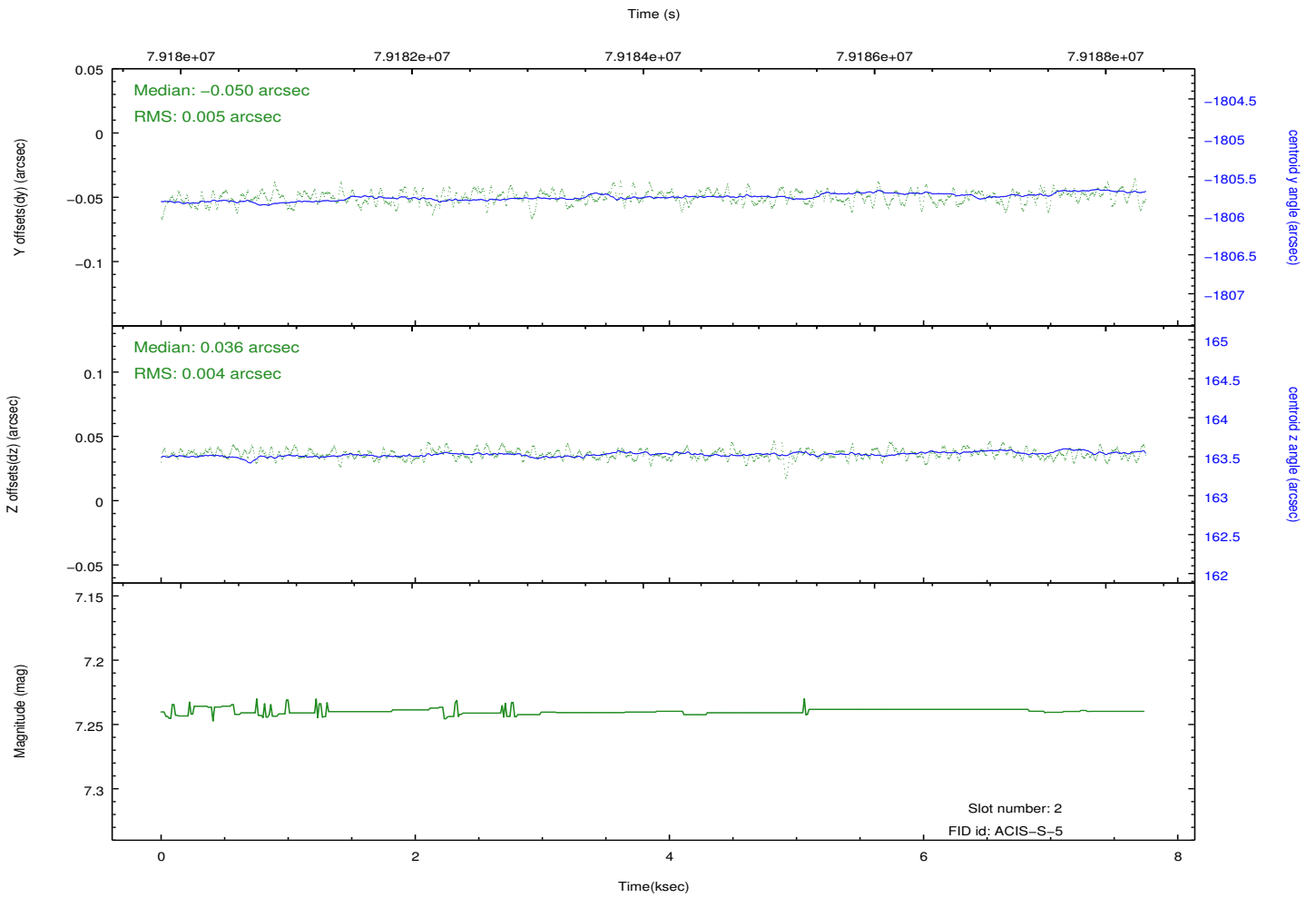
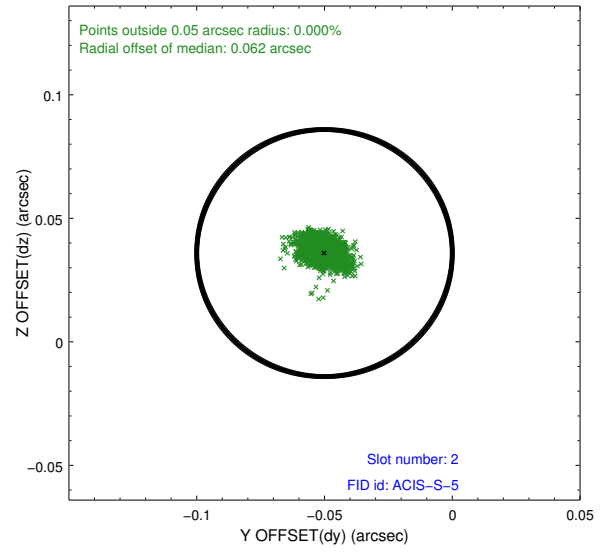
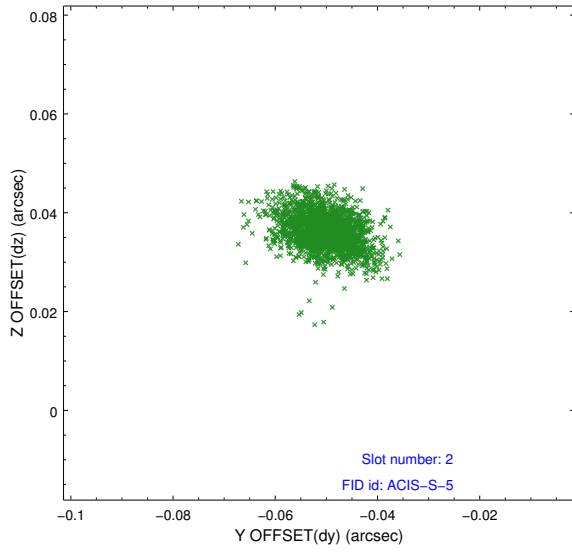
2.5.1 Slot 0



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)	2012.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.324

A.2 Comments

The focal-plane temperature was set to a temperature of about -109.2 C during this observation and others in the interval from September 17, 1999 to January 29, 2000. The current reprocessing of the data applies no charge-transfer inefficiency (CTI) adjustment to the data because the ACIS CTI adjustment has not been calibrated at this temperature. The CTI adjustment is calibrated for data taken from January 30, 2000 to the present, when the focal-plane temperature is set to -119.7 C. However, if the observation includes one or both back-illuminated CCDs ACIS-S1 and ACIS-S3, then a time-dependent gain adjustment is applied to the data for these CCDs. The ACIS spectral response calibration is less accurate at temperatures of about -109.2 C than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (i.e. fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response (e.g. those interested in imaging or timing analyses) should not notice an effect.