

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1775 - L2 Version 5
Chandra X-Ray Center

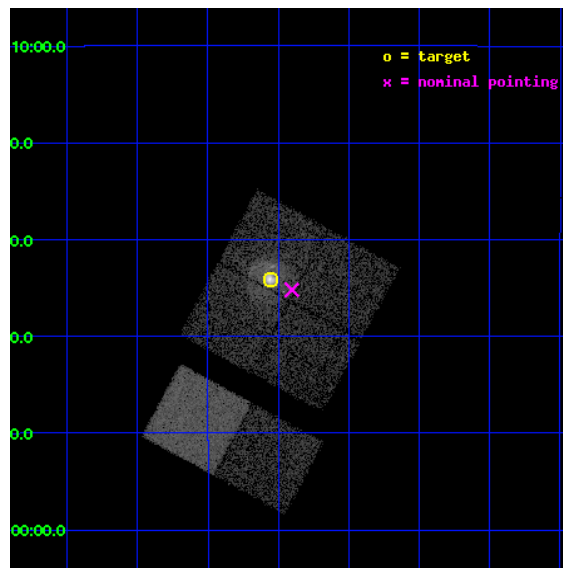
L2 Processing Date : Aug 30 2012

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1 Front

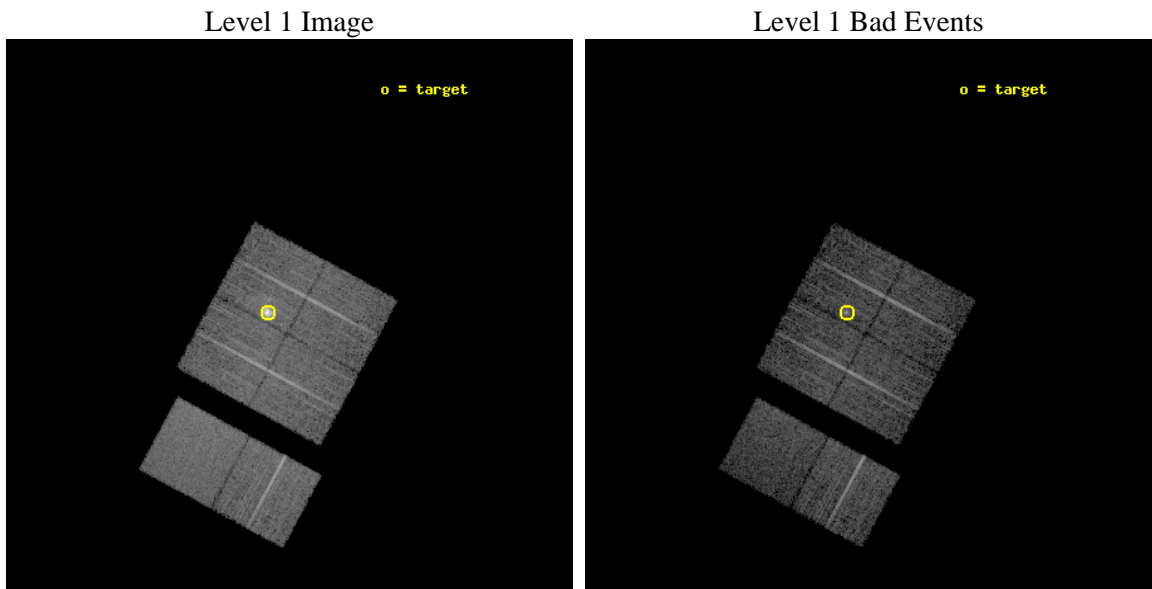
seq_num	590201	Sequence number
obs_id	1775	Observation id
title	HRC RESPONSE TO CONTINUUM SOURCE.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-0.9 [Chip I1, T=110, Offsets=-2,0,-1]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.389583	Observer's specified target RA [deg]
dec_targ	-10.568528	Observer's specified target Dec [deg]
ra_nom	278.35090342396	Nominal RA [deg]
dec_nom	-10.586719662612	Nominal Dec [deg]
roll_nom	208.35155611721	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	64952	Number of level 2 events



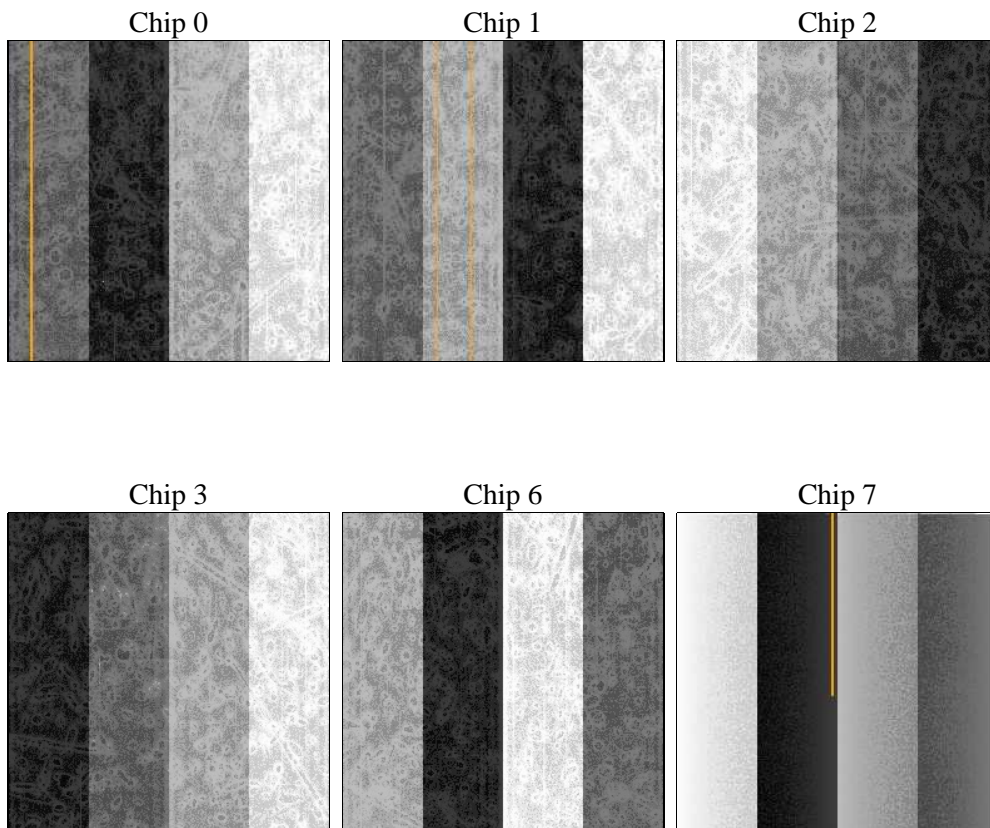
2 OBI

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]
caldsver	4.5.1.1	 	ontime0	7318.4000068009	Sum of GTIs [s]
date	2012-08-30T03:40:42	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	332328	Number of level 1 events

2.1.4 Events

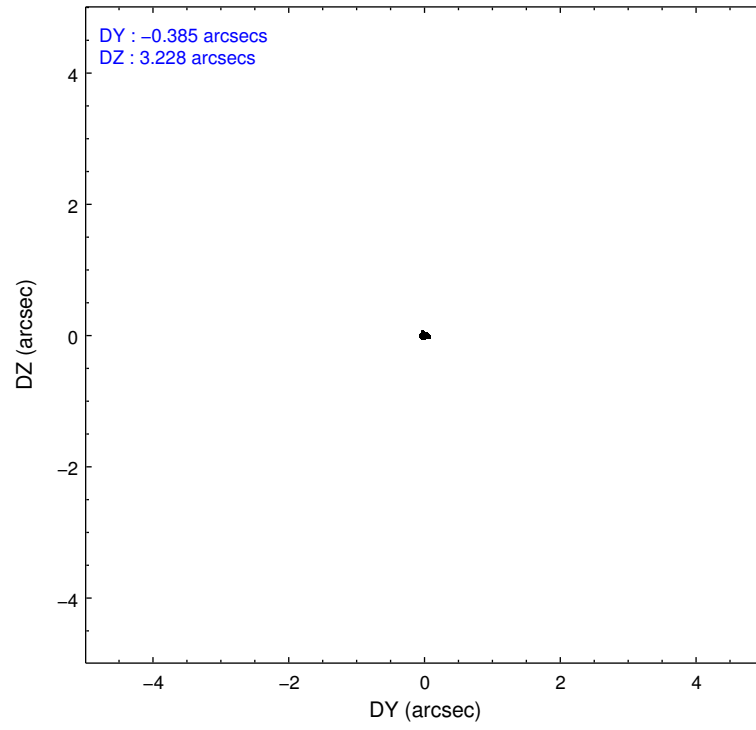
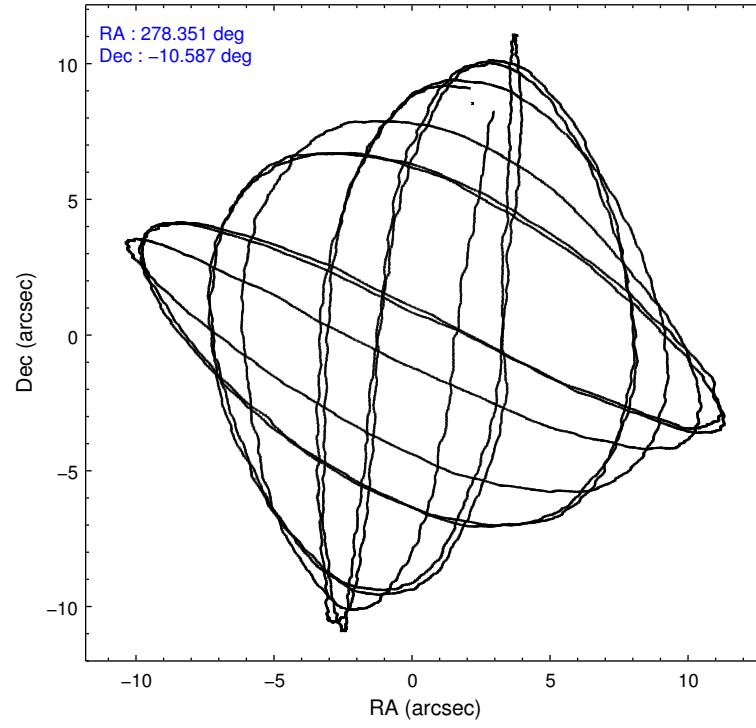
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	46610	69448	51980	53450	54497	56343	grade 0 events	1479	11070	1143	1848	1060	1186
rejected events	40957	42353	46880	46888	49163	35125		3%	15%	2%	3%	1%	2%
rejected %	87%	60%	90%	87%	90%	62%	grade 1 events	15	92	10	14	16	34
								0%	0%	0%	0%	0%	0%
							grade 2 events	2186	10983	2068	2576	2061	4582
								4%	15%	3%	4%	3%	8%
							grade 3 events	376	957	303	358	347	1248
								0%	1%	0%	0%	0%	2%
							grade 4 events	354	904	316	359	316	1183
								0%	1%	0%	0%	0%	2%
							grade 5 events	998	1348	909	1049	1216	3485
								2%	1%	1%	1%	2%	6%
							grade 6 events	1258	3206	1275	1427	1552	13033
								2%	4%	2%	2%	2%	23%
							grade 7 events	39944	40888	45956	45819	47929	31592
								85%	58%	88%	85%	87%	56%

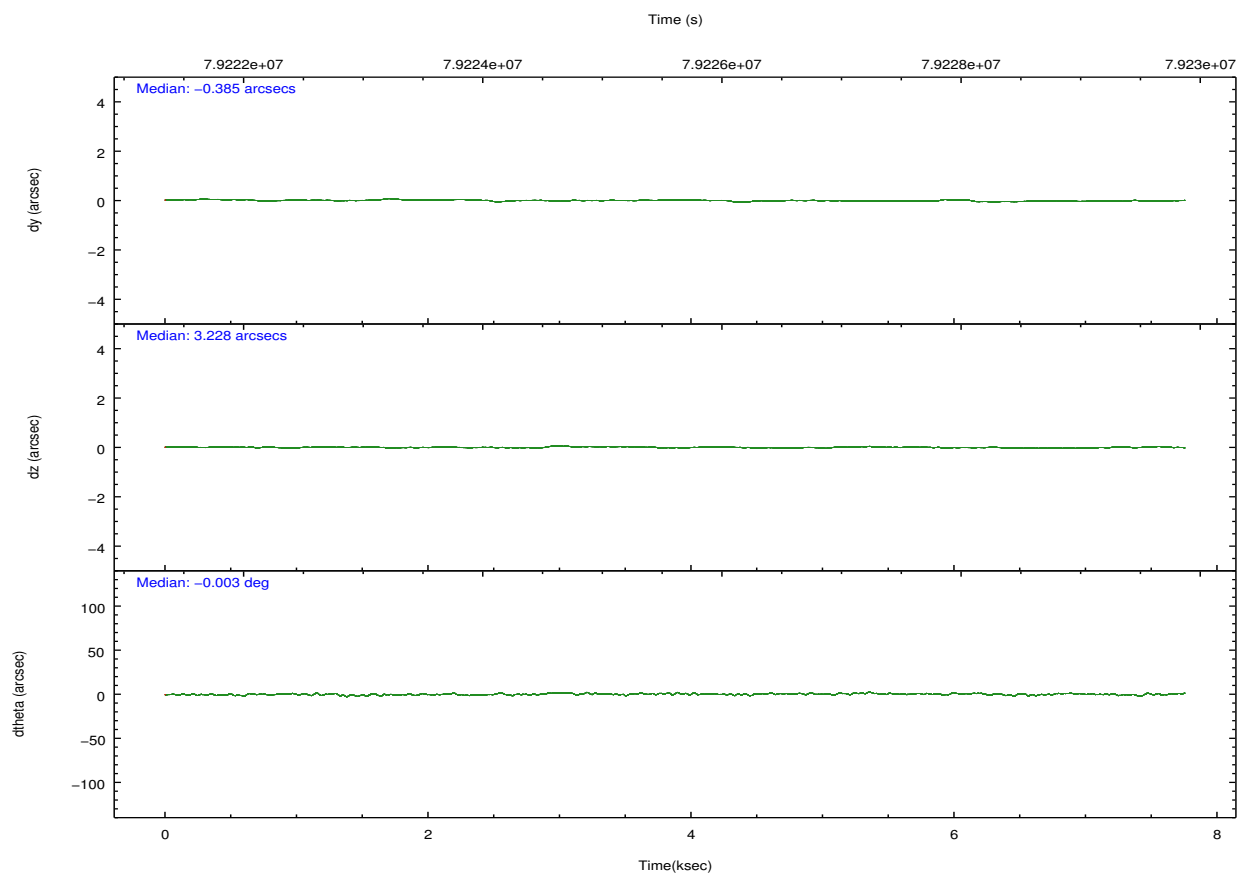
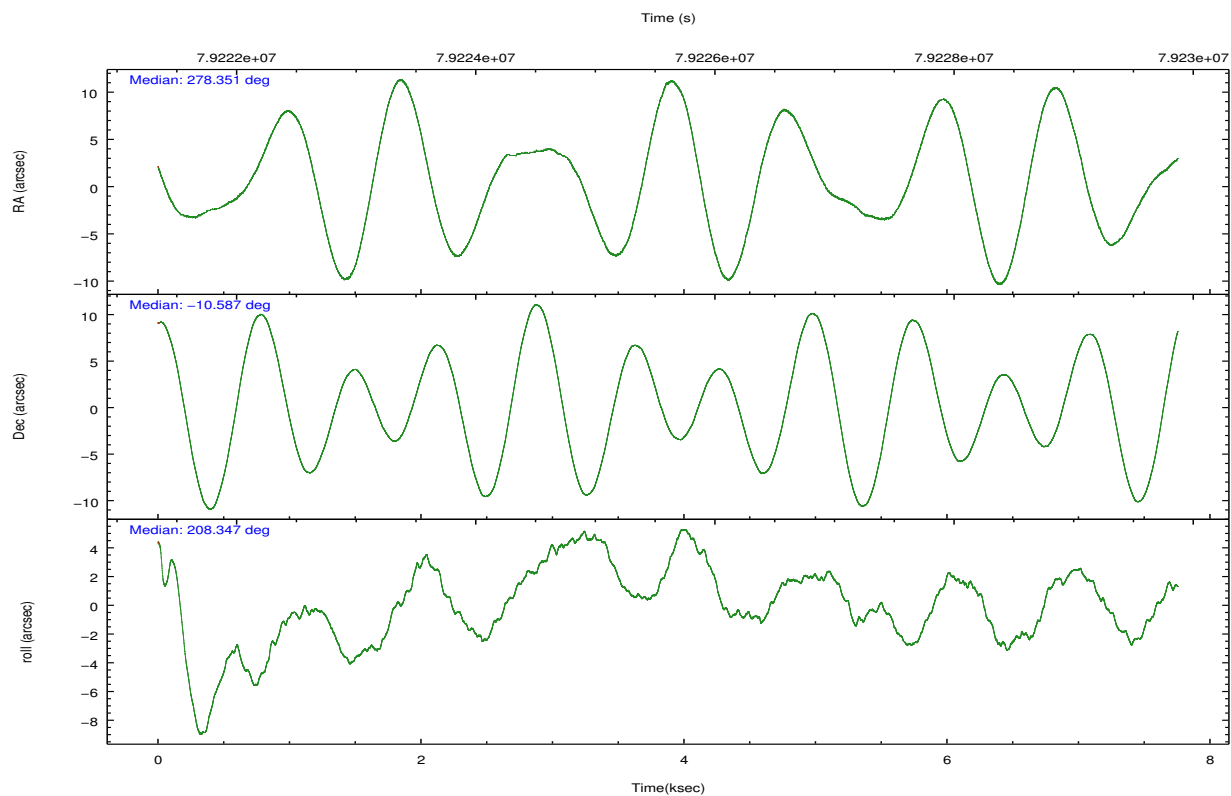
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	278.365774	278.3509034239561
[deg] Pointing Dec	-10.563291	-10.58671966261192
[deg] Pointing Roll	208.145595	208.3515561172132
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-238.277263	-238.2741181829365
[mm] SIM translation stage offset	4.6848	4.681665180006831
[s] Observation start time (MET)	79221926.184000	79221550.055408
Observation start date	2000-07-05T22:04:22	2000-07-05T21:59:10
[s] Observation end time (MET)	79229486.184000	79229619.880706
Observation end date	2000-07-06T00:10:22	2000-07-06T00:13:39
Read mode	TIMED	TIMED

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	3.2

2.3 Aspect



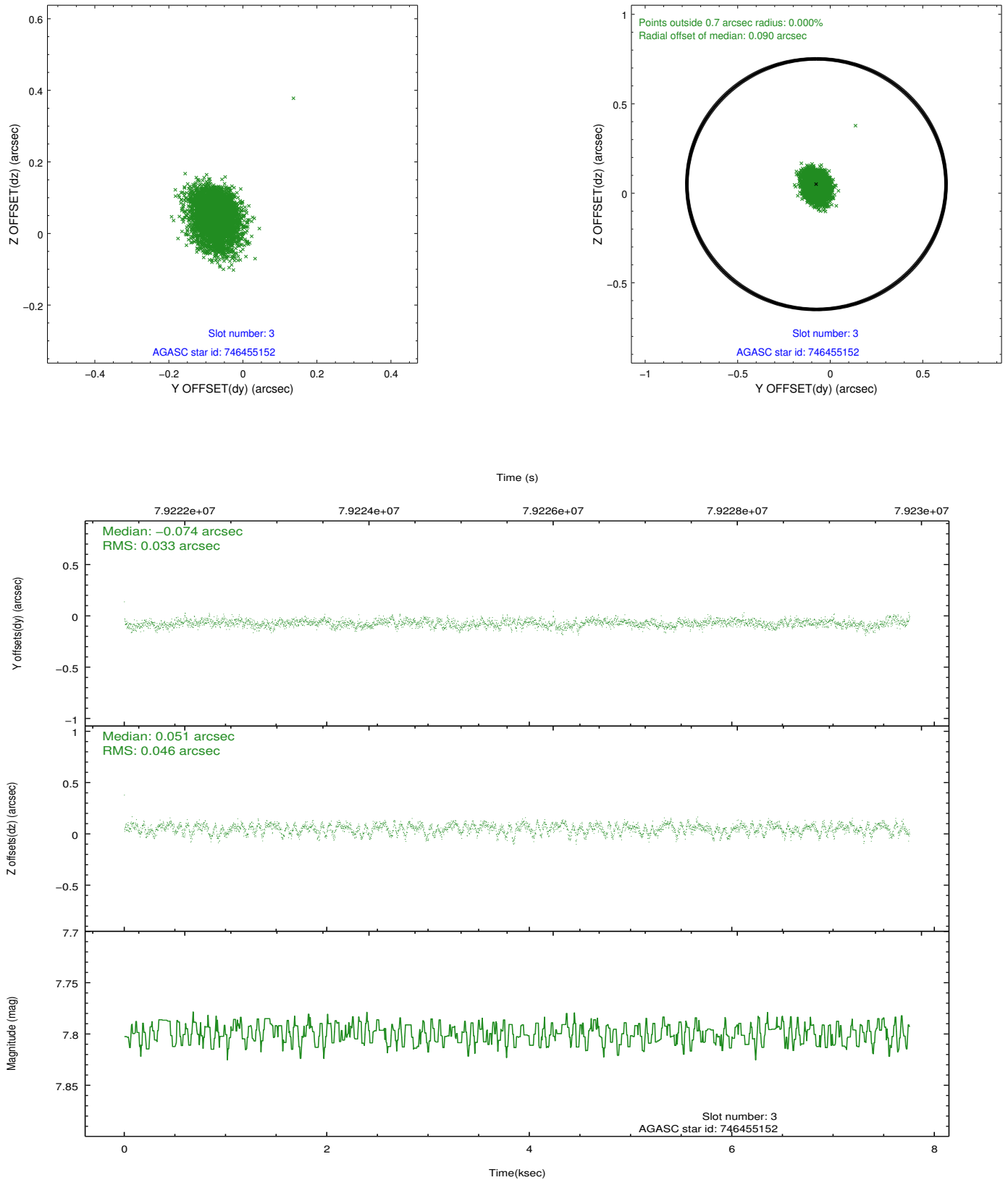


Slot Statistics

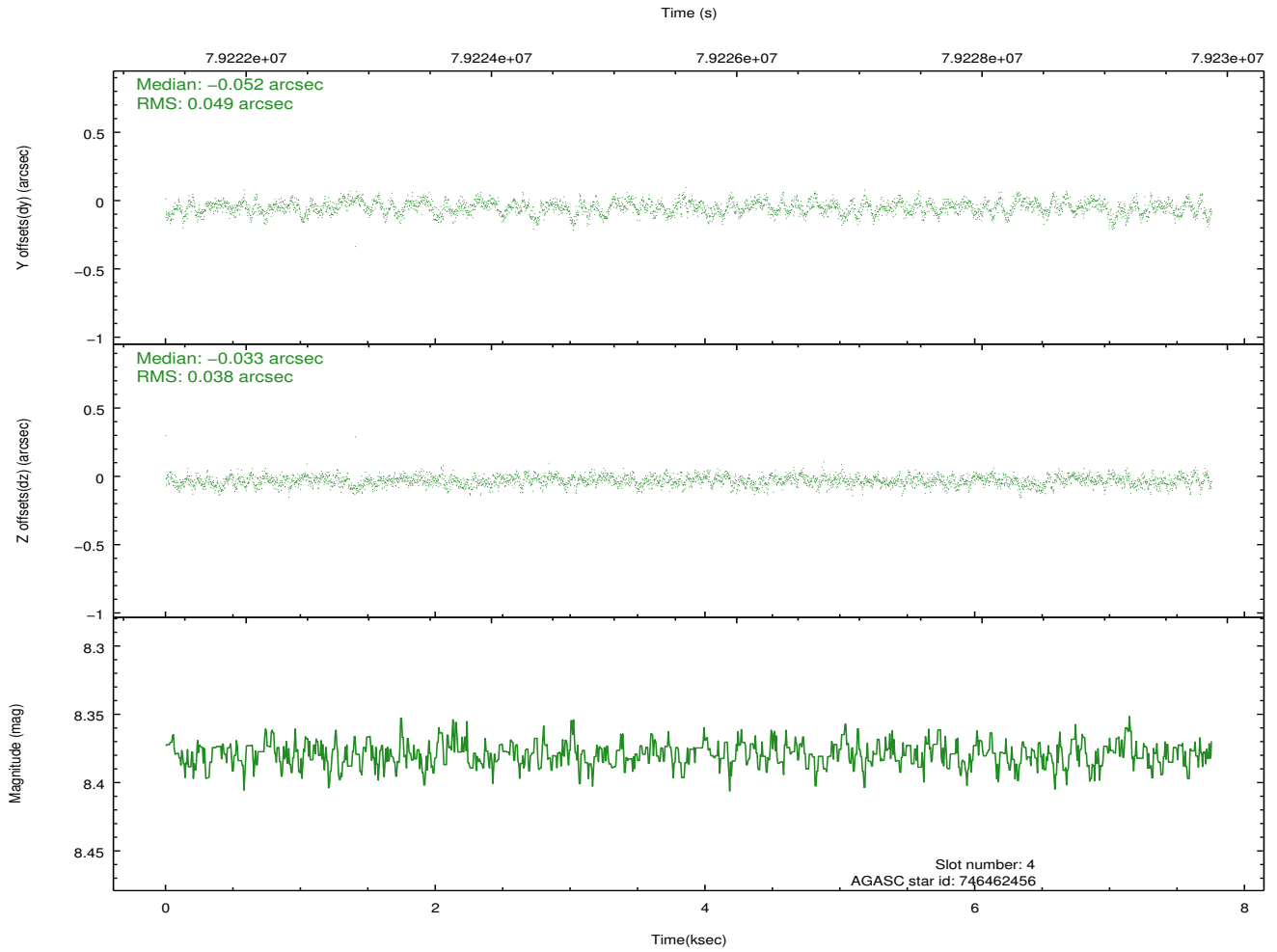
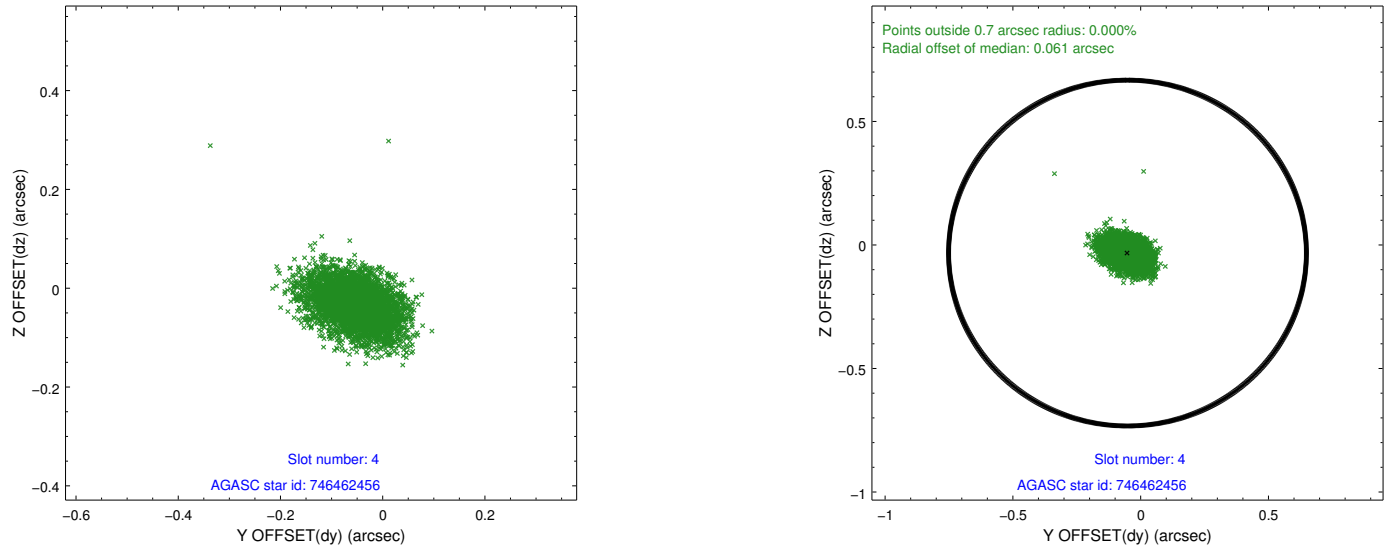
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.16	1891	-0.067	-0.068	0.012	0.022	0.000000	0.000000	-753.62	-737.32
1	FID	ACIS-I-4	7.20	1892	-0.005	0.061	0.009	0.015	0.000000	0.000000	2160.16	1168.75
2	FID	ACIS-I-5	7.23	1892	-0.028	0.075	0.012	0.022	0.000000	0.000000	-1806.74	1167.98
3	GUIDE	746455152	7.80	3783	-0.074	0.051	0.060	0.098	278.447893	-9.976732	-1252.76	-1723.91
4	GUIDE	746462456	8.38	3782	-0.052	-0.033	0.065	0.106	278.652171	-10.530173	-950.23	373.66
5	GUIDE	746455112	8.93	3776	0.207	-0.105	0.070	0.116	278.266531	-10.703234	547.10	279.42
6	GUIDE	746460328	9.81	3780	0.001	0.023	0.091	0.147	278.603974	-9.898096	-1874.09	-1712.12
7	GUIDE	746995400	9.50	3780	-0.082	0.067	0.090	0.143	278.078957	-11.289885	2126.27	1829.76

2.4 Star Slots

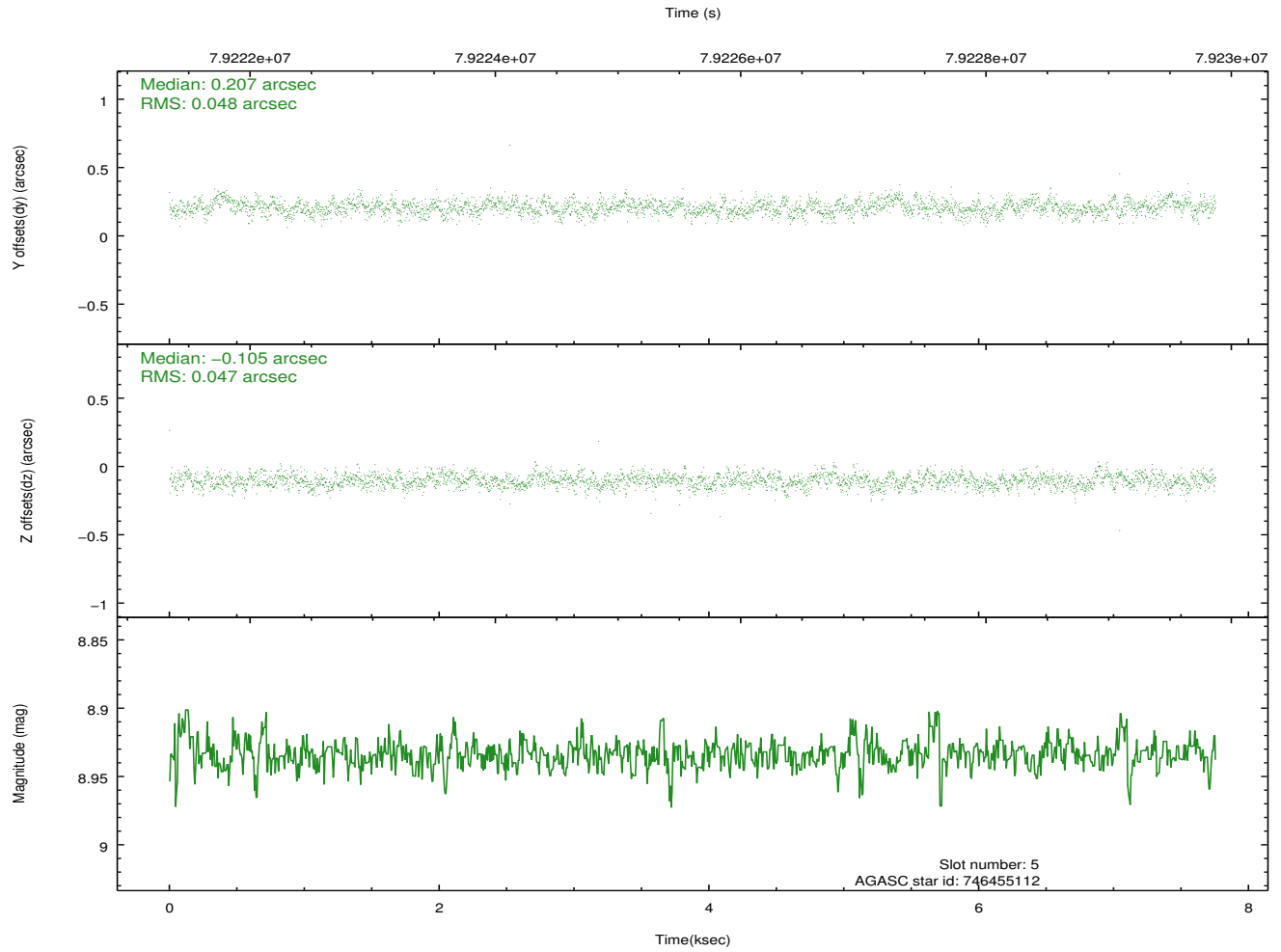
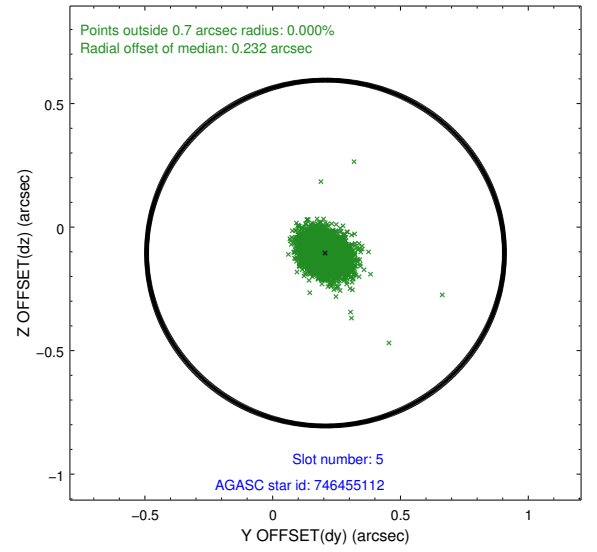
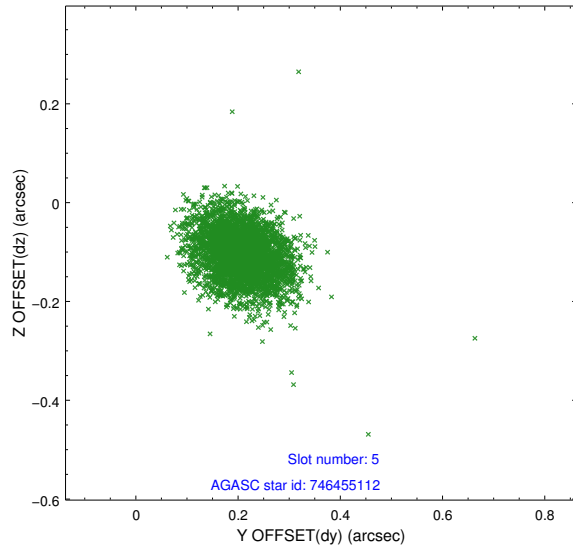
2.4.1 Slot 3



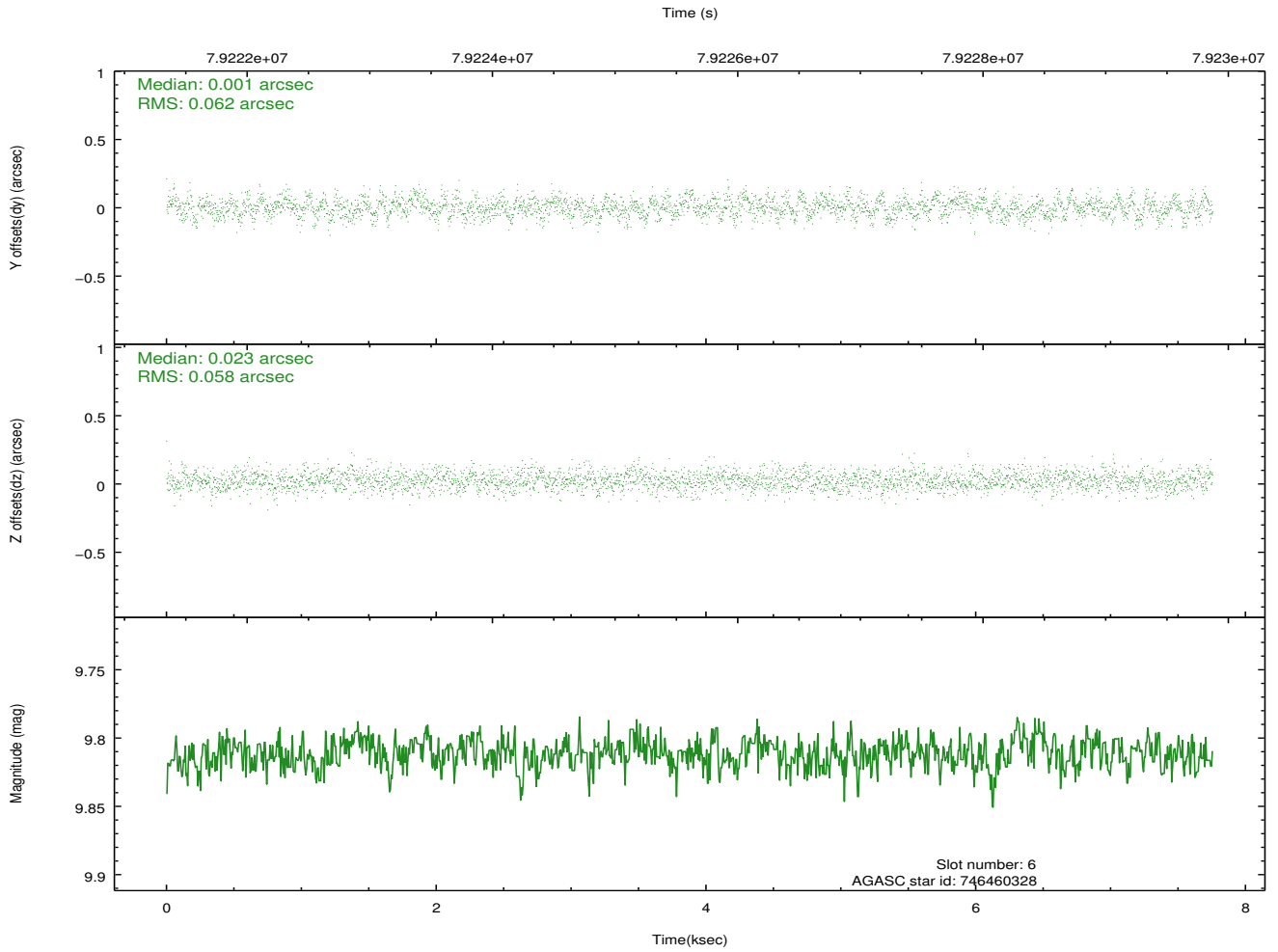
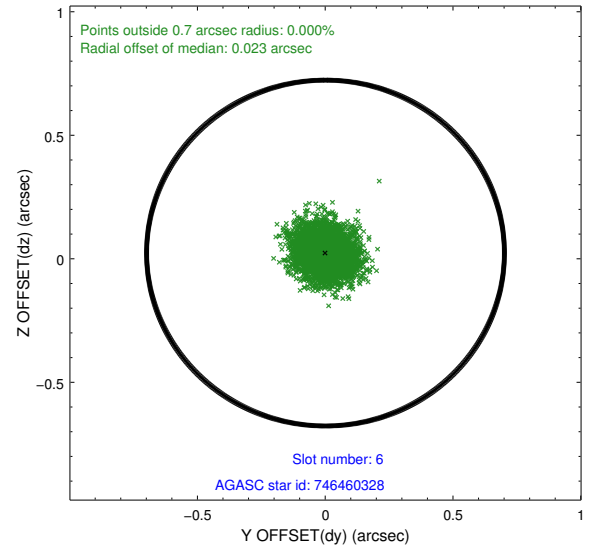
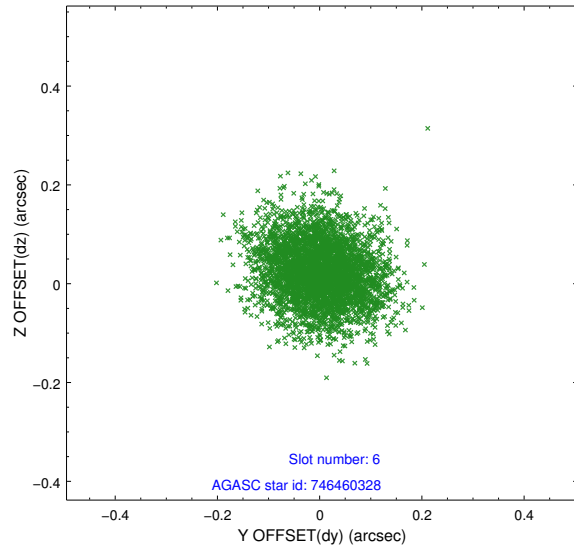
2.4.2 Slot 4



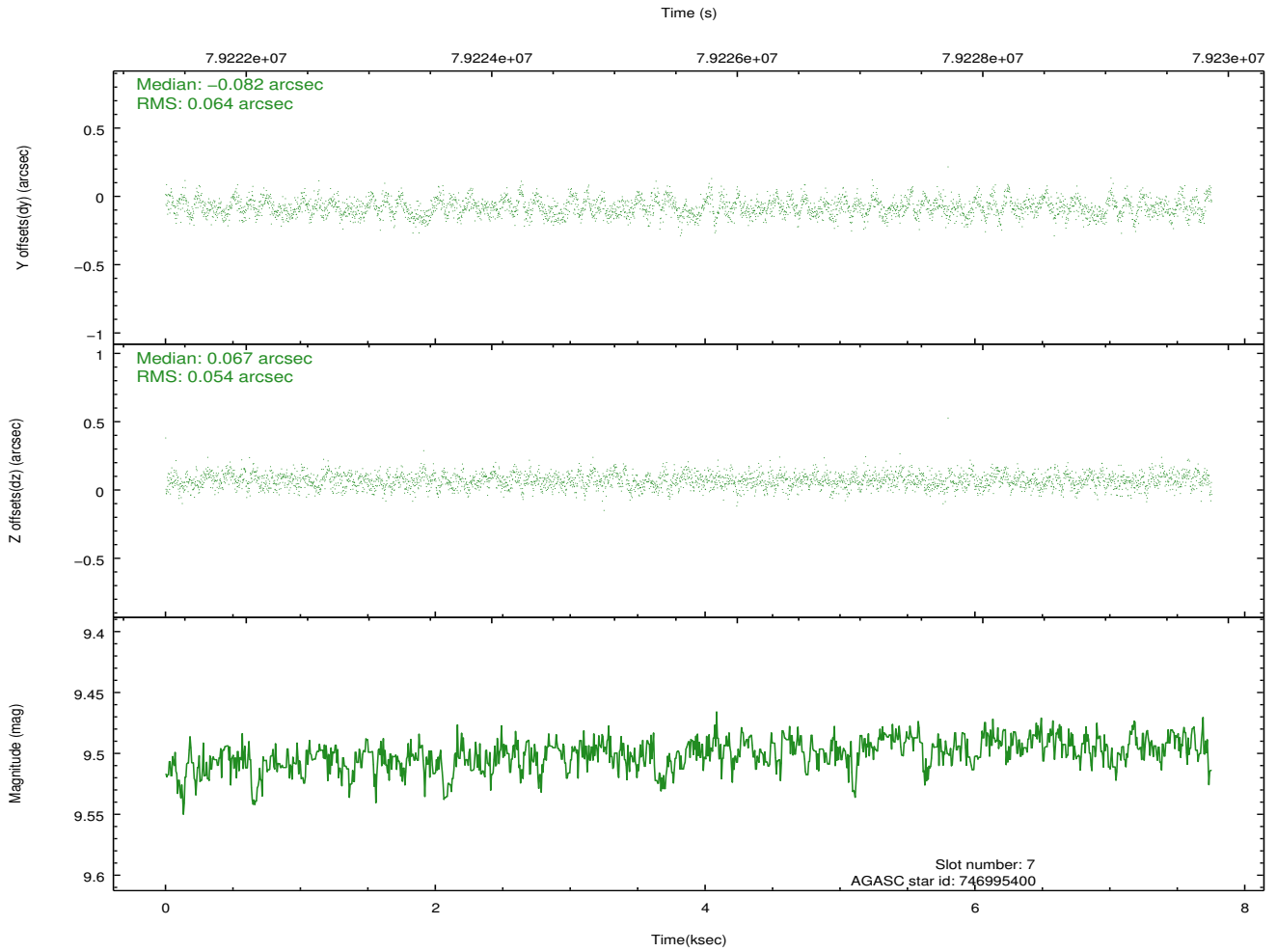
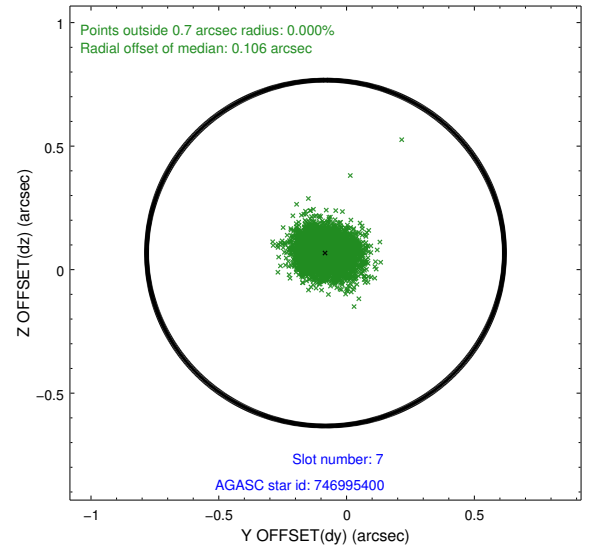
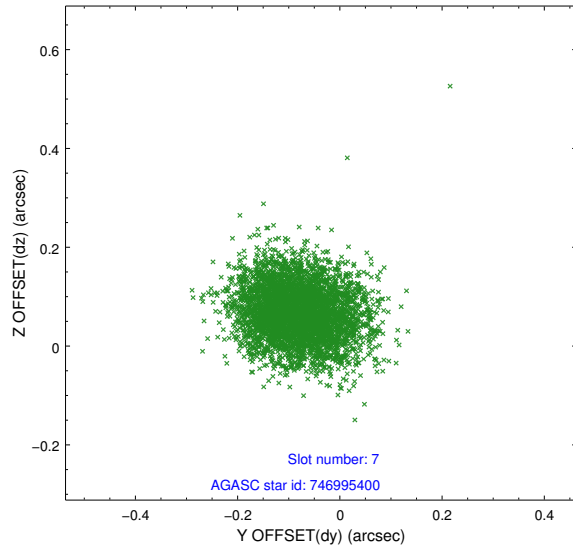
2.4.3 Slot 5



2.4.4 Slot 6

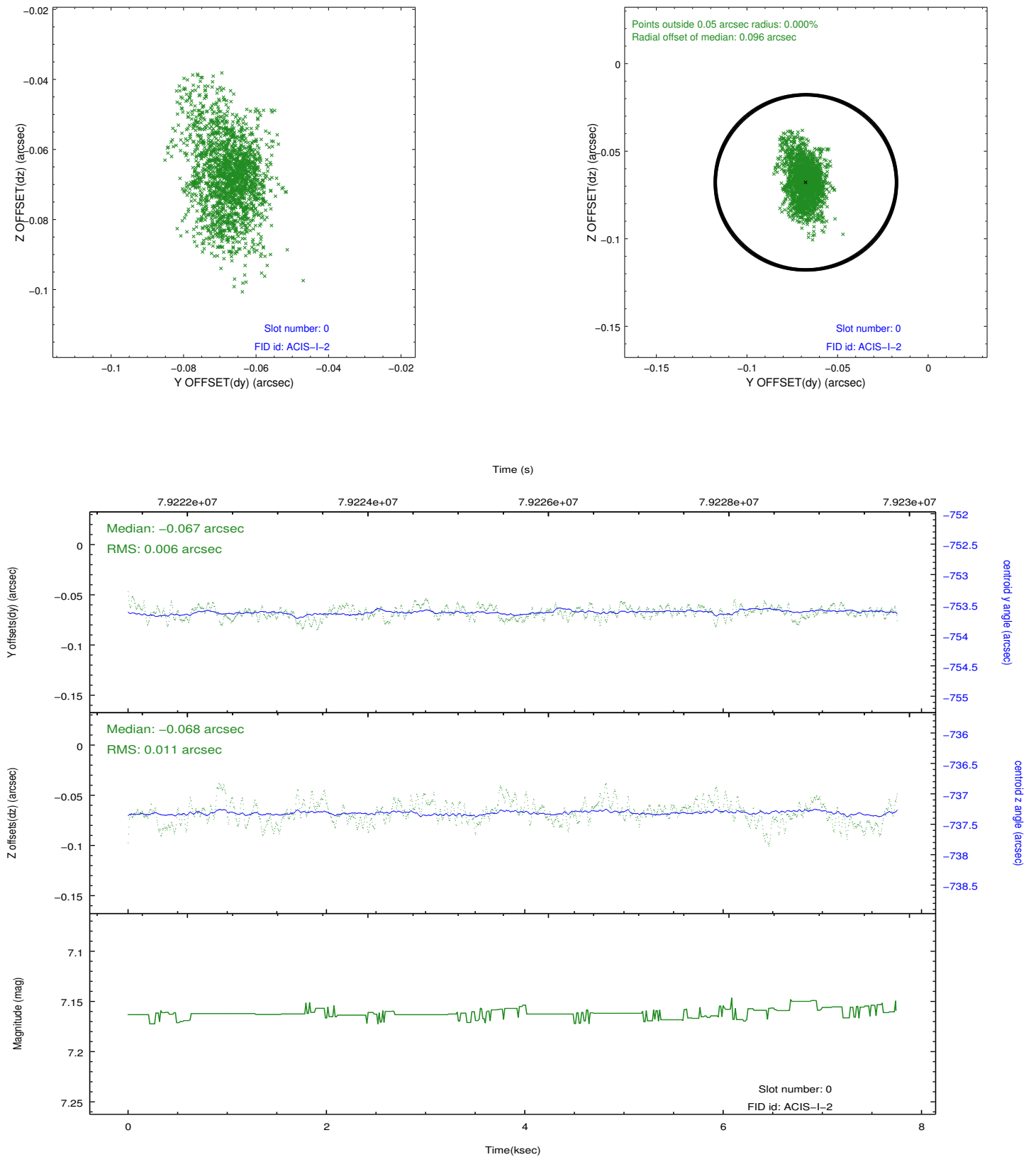


2.4.5 Slot 7

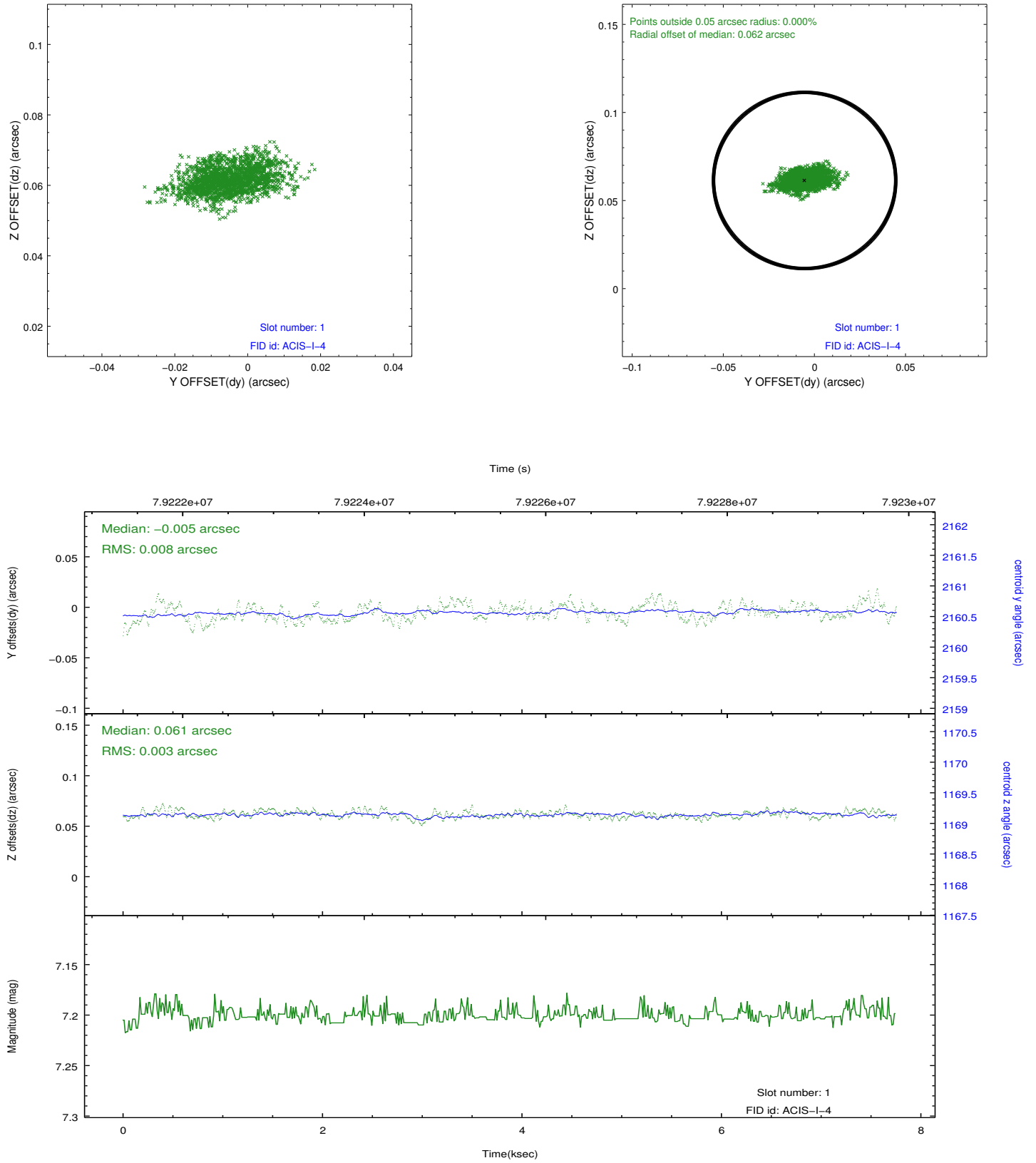


2.5 FID Slots

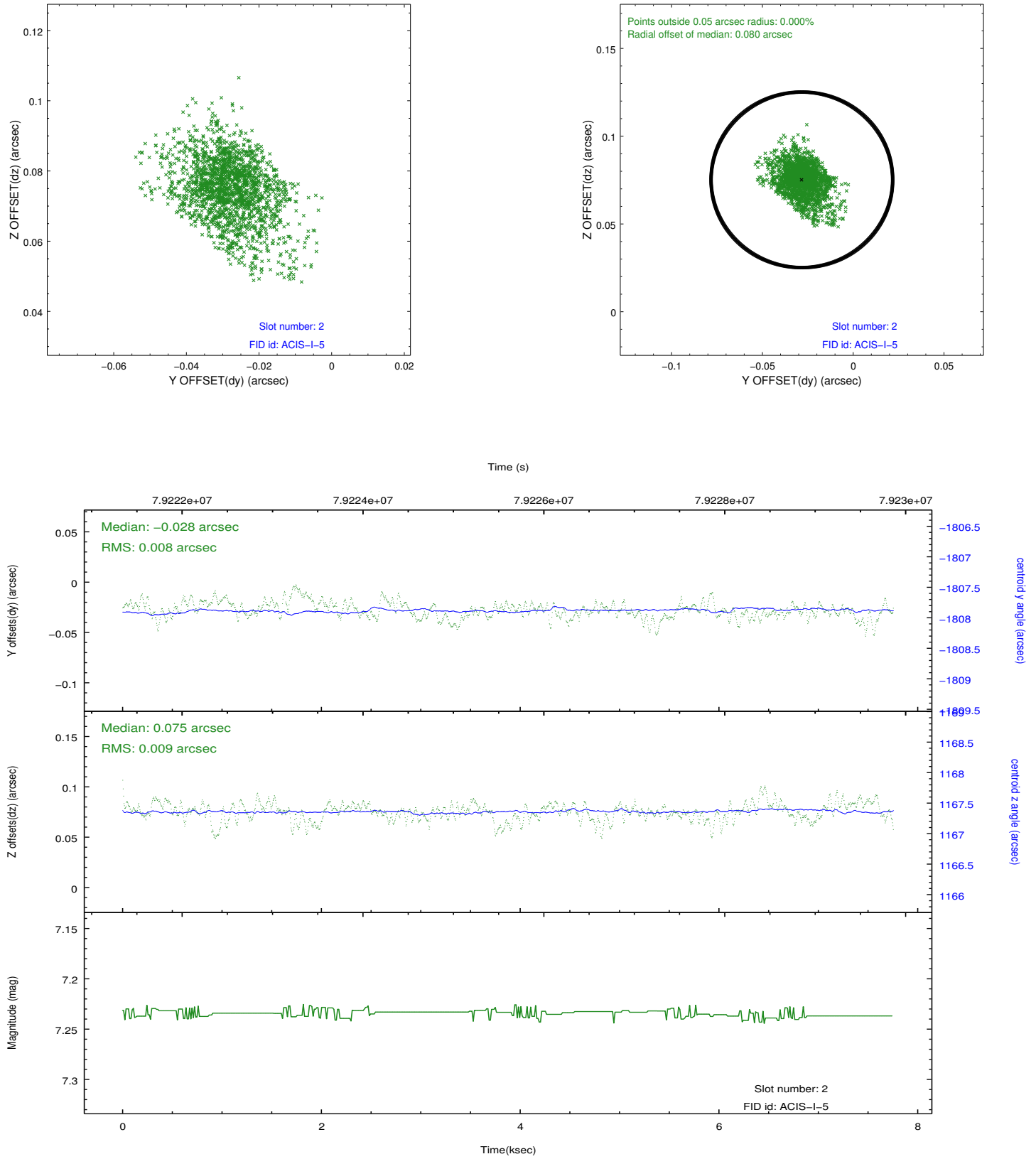
2.5.1 Slot 0



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	7.321

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.