

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 78 - L2 Version 4
Chandra X-Ray Center

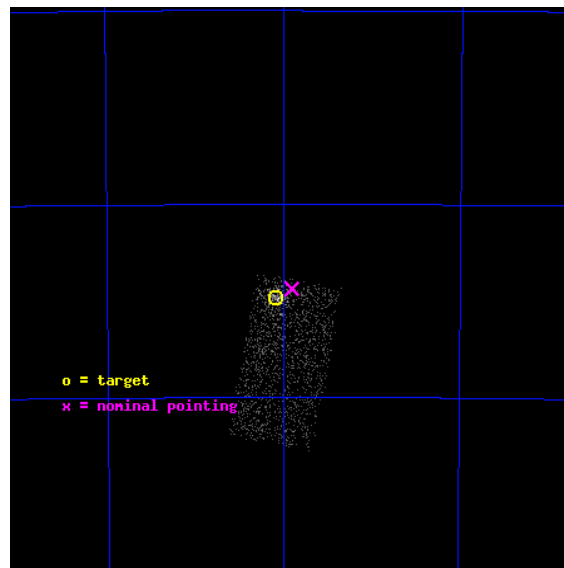
L2 Processing Date : Aug 24 2012

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1 Front

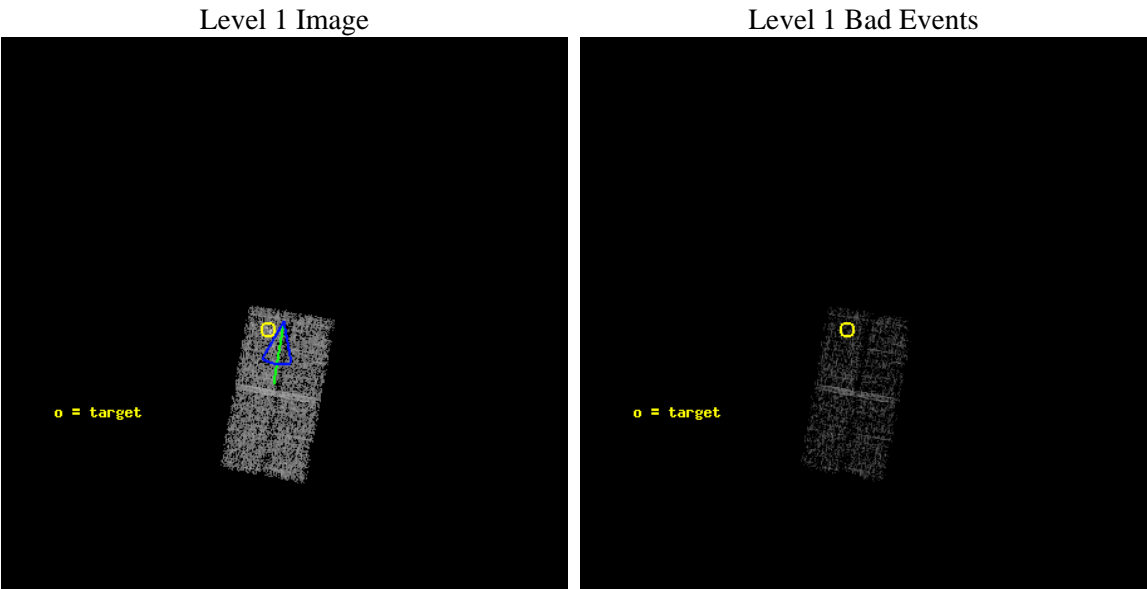
seq_num	300003	Sequence number
obs_id	78	Observation id
title	DIFFUSE X-RAY EMISSION IN GLOBULARS: HOT GAS VS. NON-THERMAL EMISSION IN 47 TUC	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	47 TUC	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	6.0243	Observer's specified target RA [deg]
dec_targ	-72.0809	Observer's specified target Dec [deg]
ra_nom	5.9770421611744	Nominal RA [deg]
dec_nom	-72.072967968183	Nominal Dec [deg]
roll_nom	190.37526240909	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4050.9000268281	Sum of GTIs [s]
livetime	3874.2349147169	Livetime [s]
ontime2	4050.9000268281	Sum of GTIs [s]
ontime3	4050.9000268281	Sum of GTIs [s]
l2events	2776	Number of level 2 events



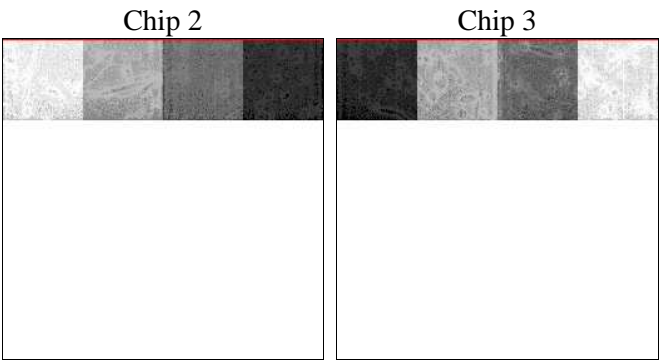
2 OBI

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	8.4.5	Processing system revision	ontime	4050.9000268281	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime2	4050.9000268281	Sum of GTIs [s]
date	2012-08-24T14:12:19	Date and time of file creation	ontime3	4050.9000268281	Sum of GTIs [s]
revision	4	Processing version of data	l1events	21793	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3
level 1 events	10042	11751
rejected events	9032	9525
rejected %	89%	81%

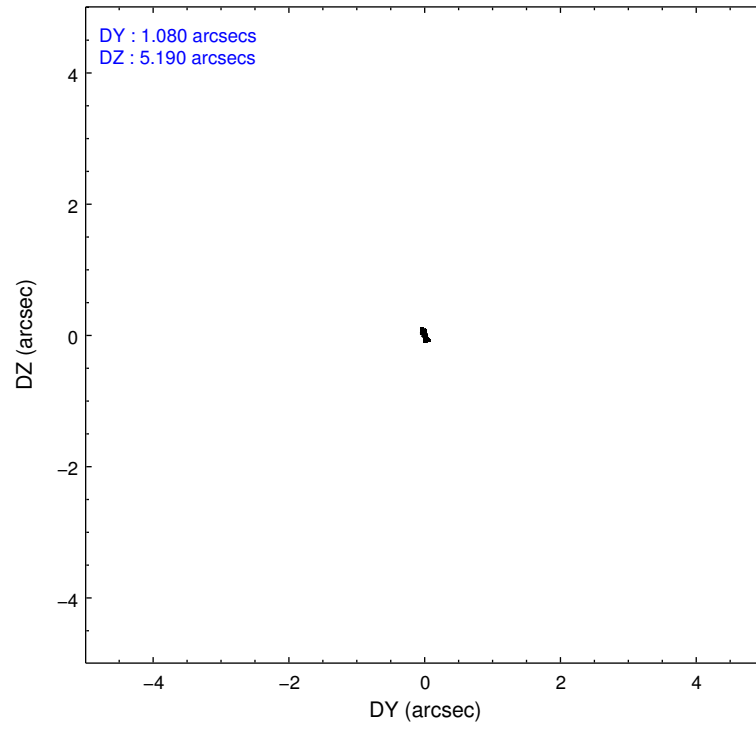
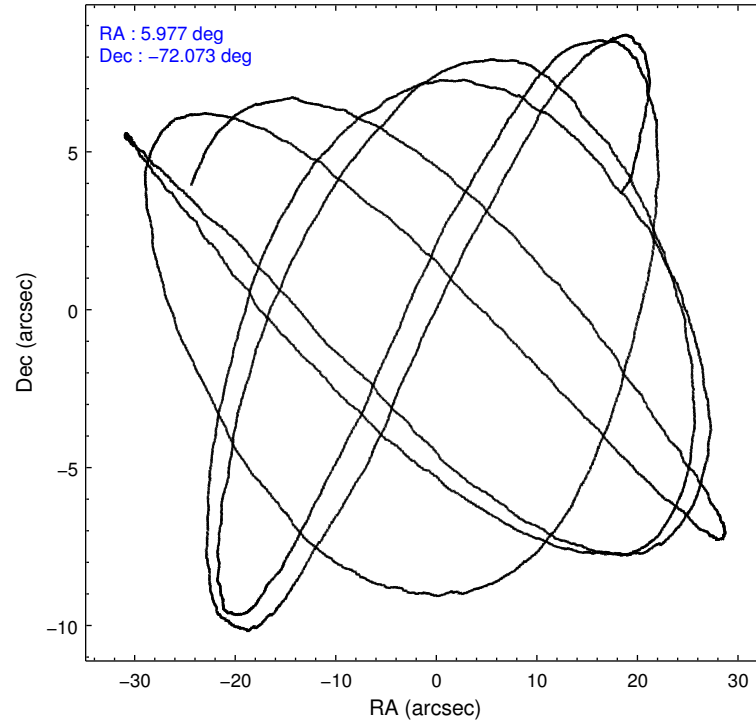
	ccd 2	ccd 3
grade 0 events	366	1463
	3%	12%
grade 1 events	5	18
	0%	0%
grade 2 events	154	245
	1%	2%
grade 3 events	169	192
	1%	1%
grade 4 events	163	152
	1%	1%
grade 5 events	239	251
	2%	2%
grade 6 events	158	174
	1%	1%
grade 7 events	8788	9256
	87%	78%

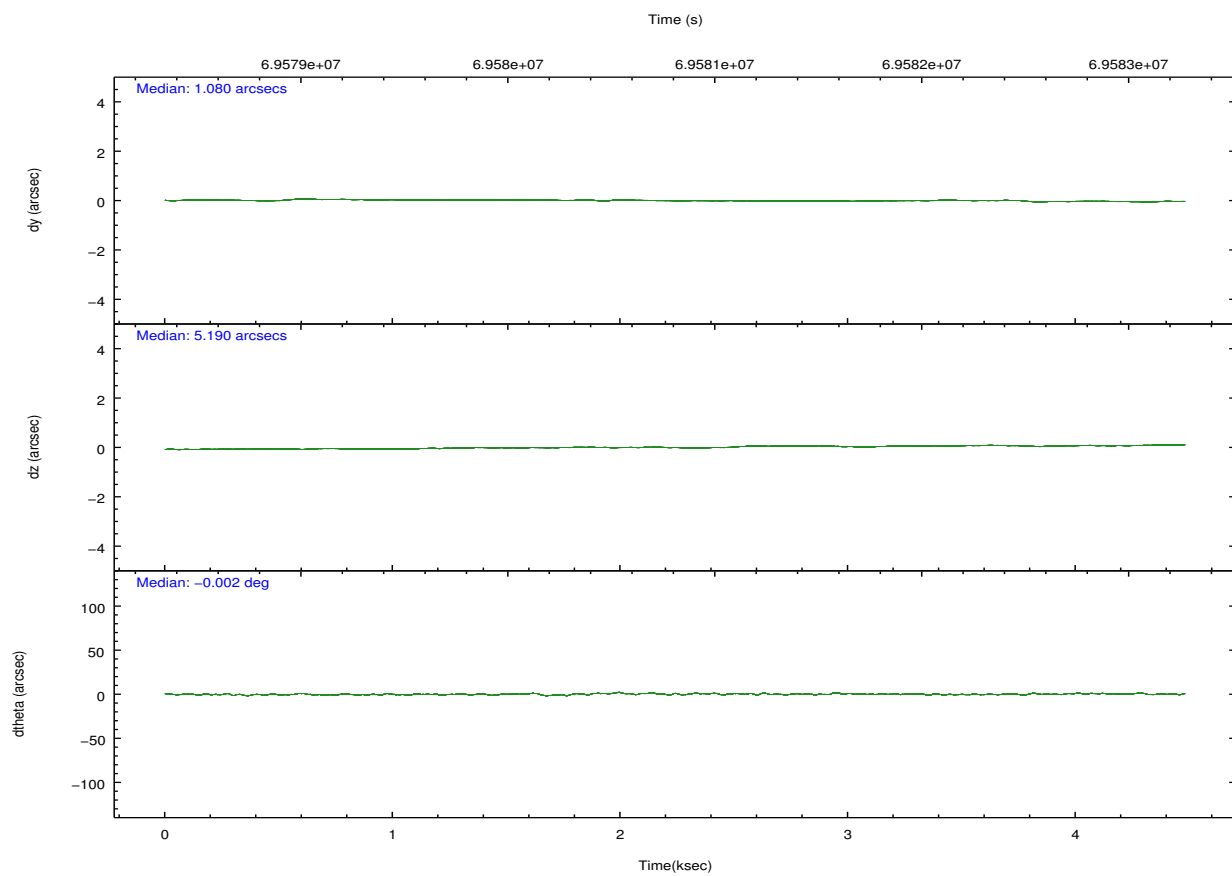
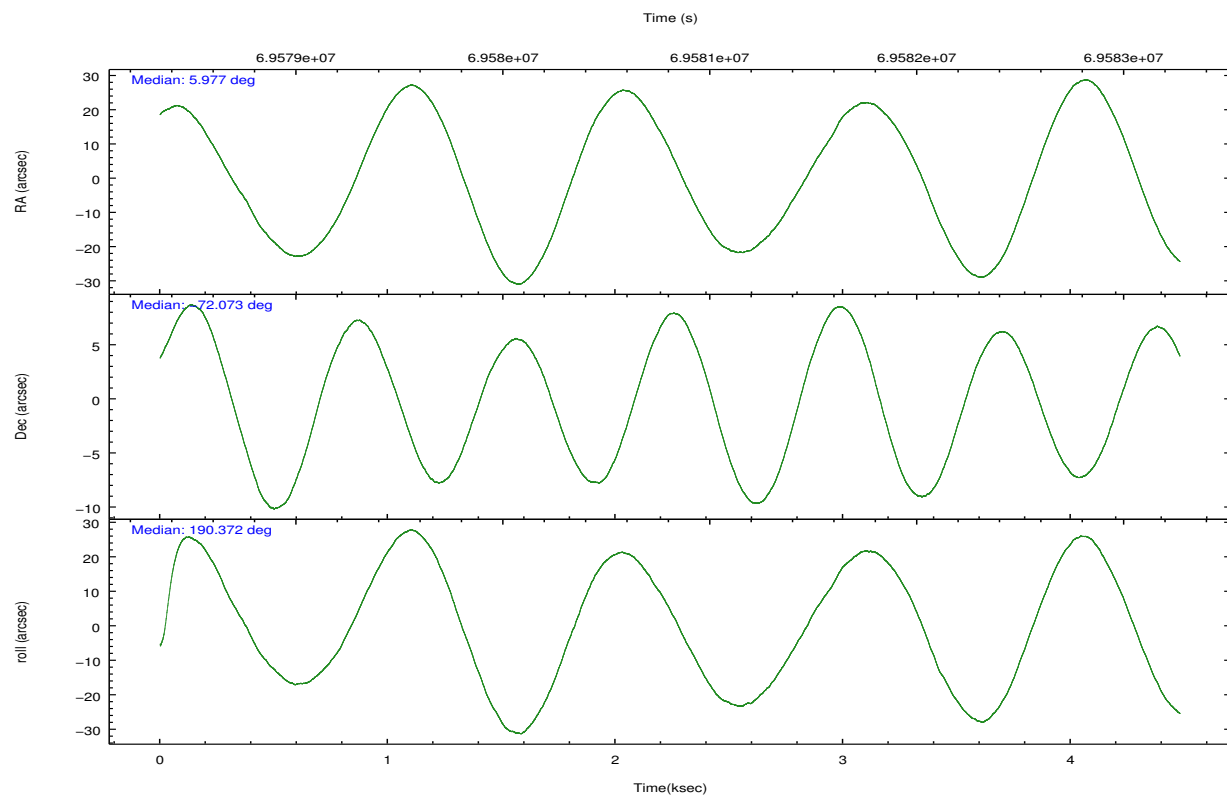
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23	ACIS-23
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	6.045633	5.977042161174444
[deg] Pointing Dec	-72.055332	-72.07296796818288
[deg] Pointing Roll	190.231832	190.3752624090912
[deg] Roll angle	190.000000	190.000000
[deg] Roll tolerance	20.000000	20.000000
Roll constraint allows 180D rotation	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	69579050.184000	69578310.75122599
Observation start date	2000-03-16T07:29:46	2000-03-16T07:18:30
[s] Observation end time (MET)	69583050.184000	69583184.113904
Observation end date	2000-03-16T08:36:26	2000-03-16T08:39:44
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	CUSTOM	1/4
Subarray start row	768	768
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.9

2.3 Aspect



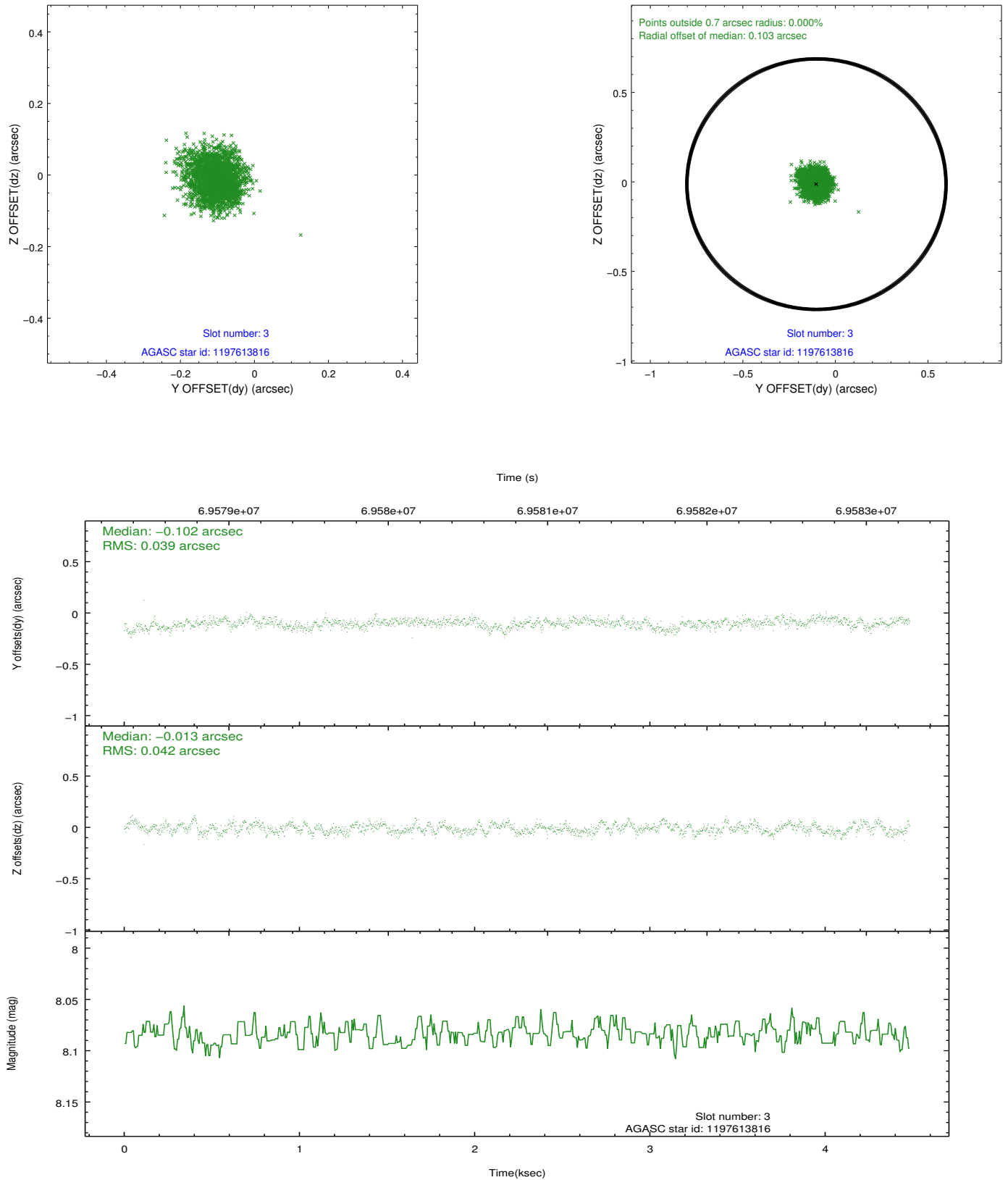


Slot Statistics

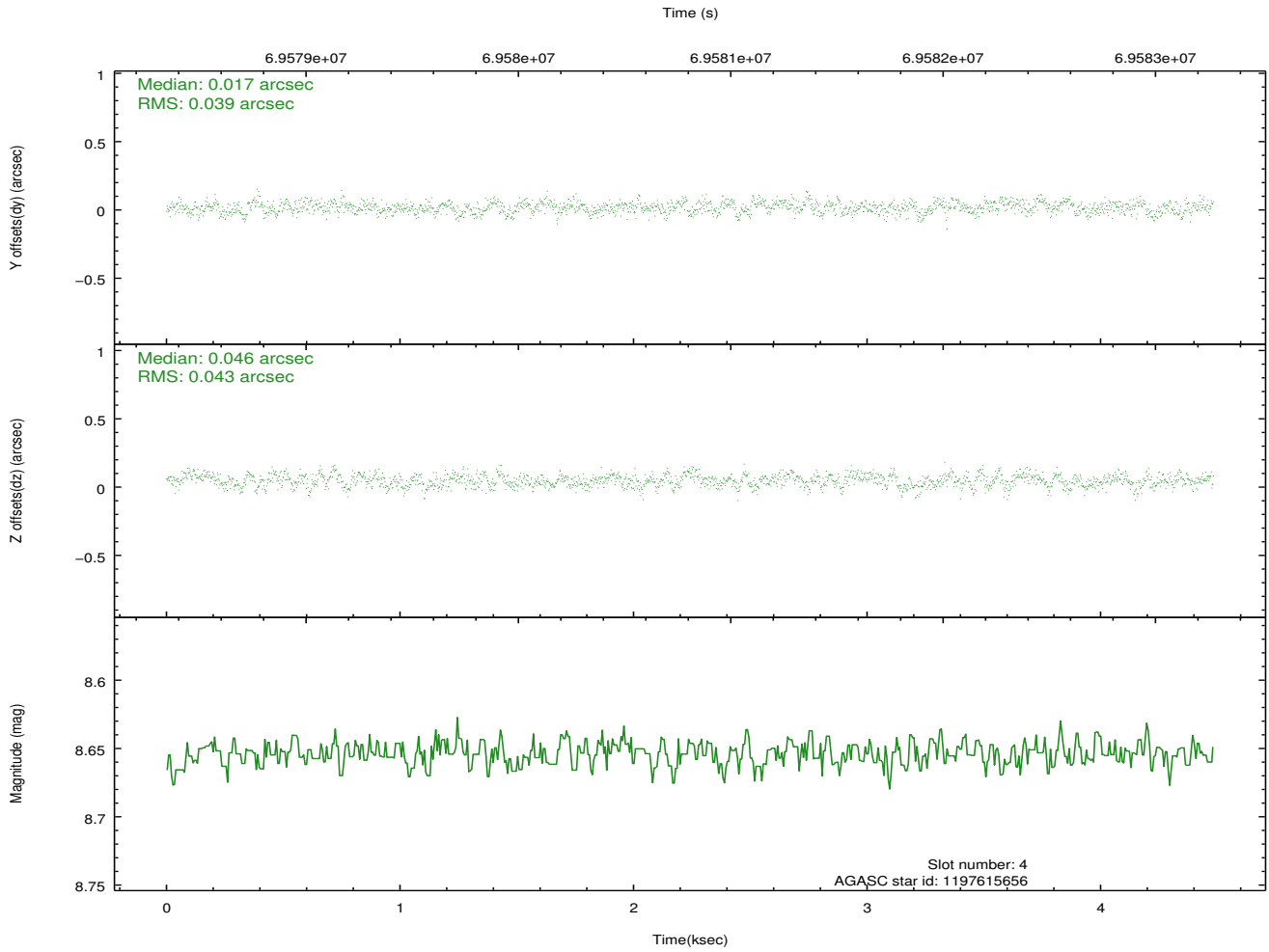
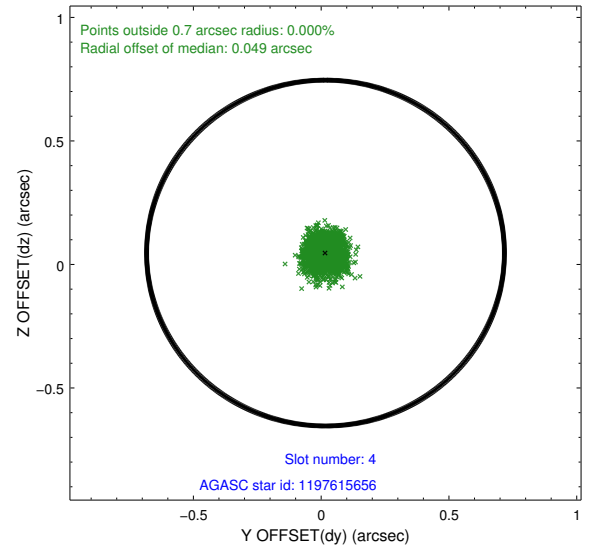
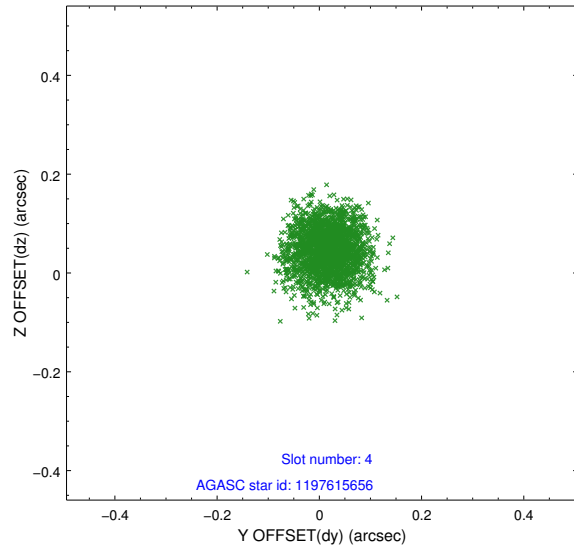
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	1093	-0.029	-0.044	0.010	0.018	0.000000	0.000000	-755.44	-834.95
1	FID	ACIS-I-4	7.19	1093	-0.032	0.037	0.006	0.011	0.000000	0.000000	2158.00	1070.62
2	FID	ACIS-I-5	7.23	1093	-0.040	0.076	0.009	0.015	0.000000	0.000000	-1807.50	1070.07
3	GUIDE	1197613816	8.08	2186	-0.102	-0.013	0.062	0.098	5.181461	-71.977993	899.22	-437.95
4	GUIDE	1197615656	8.65	2186	0.017	0.046	0.063	0.100	6.909375	-71.882658	-1059.89	-433.21
5	GUIDE	1197607928	9.62	2185	0.078	0.016	0.092	0.147	7.837743	-72.165759	-1868.44	770.98
6	GUIDE	1197619752	10.03	2187	0.043	0.045	0.130	0.206	4.510721	-71.856694	1569.62	-987.11
7	GUIDE	1197999176	8.86	2185	-0.040	-0.093	0.081	0.130	6.259352	-72.617840	134.52	2033.70

2.4 Star Slots

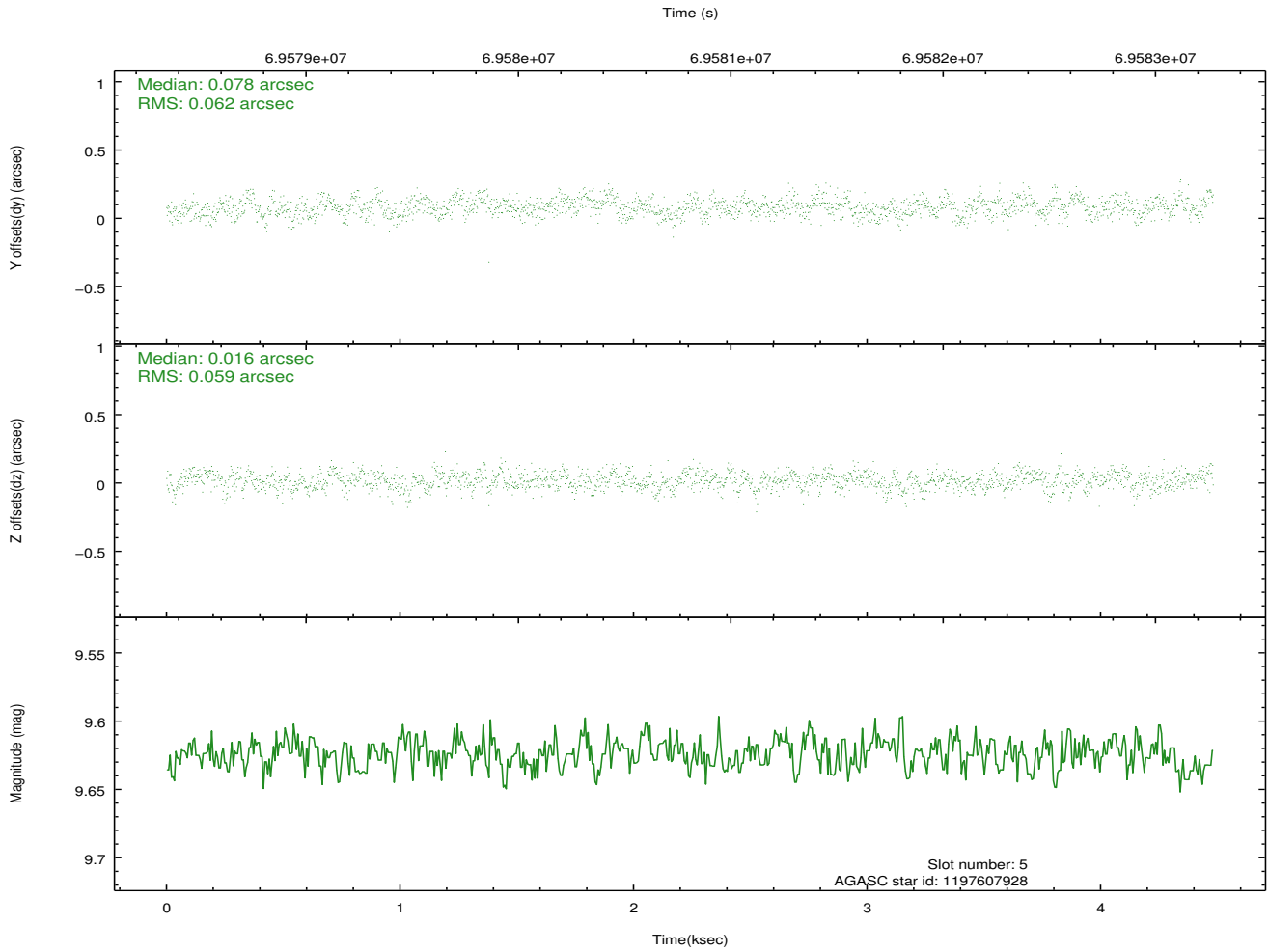
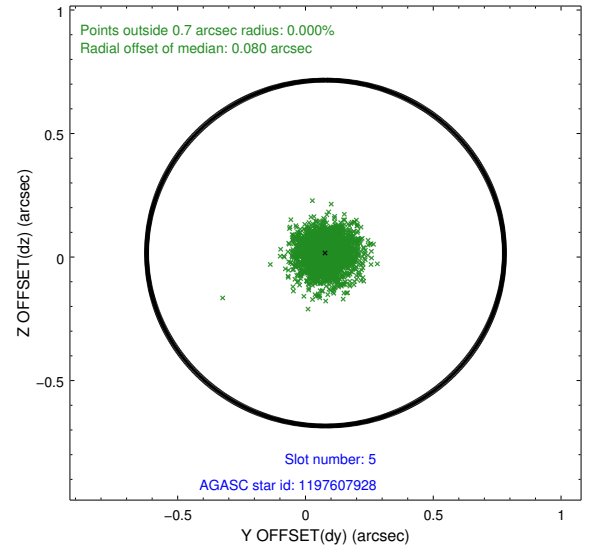
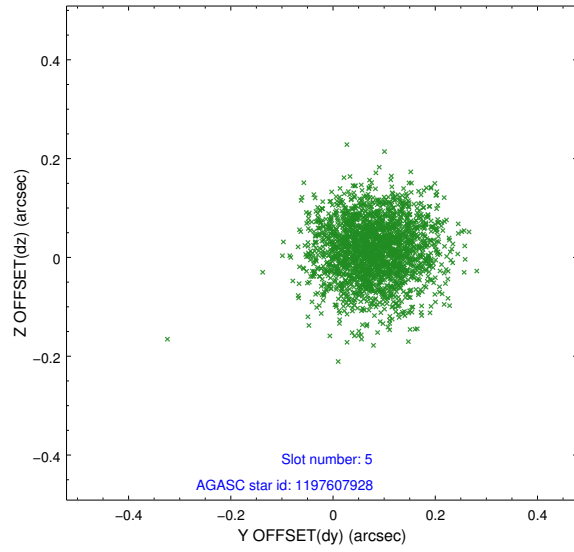
2.4.1 Slot 3



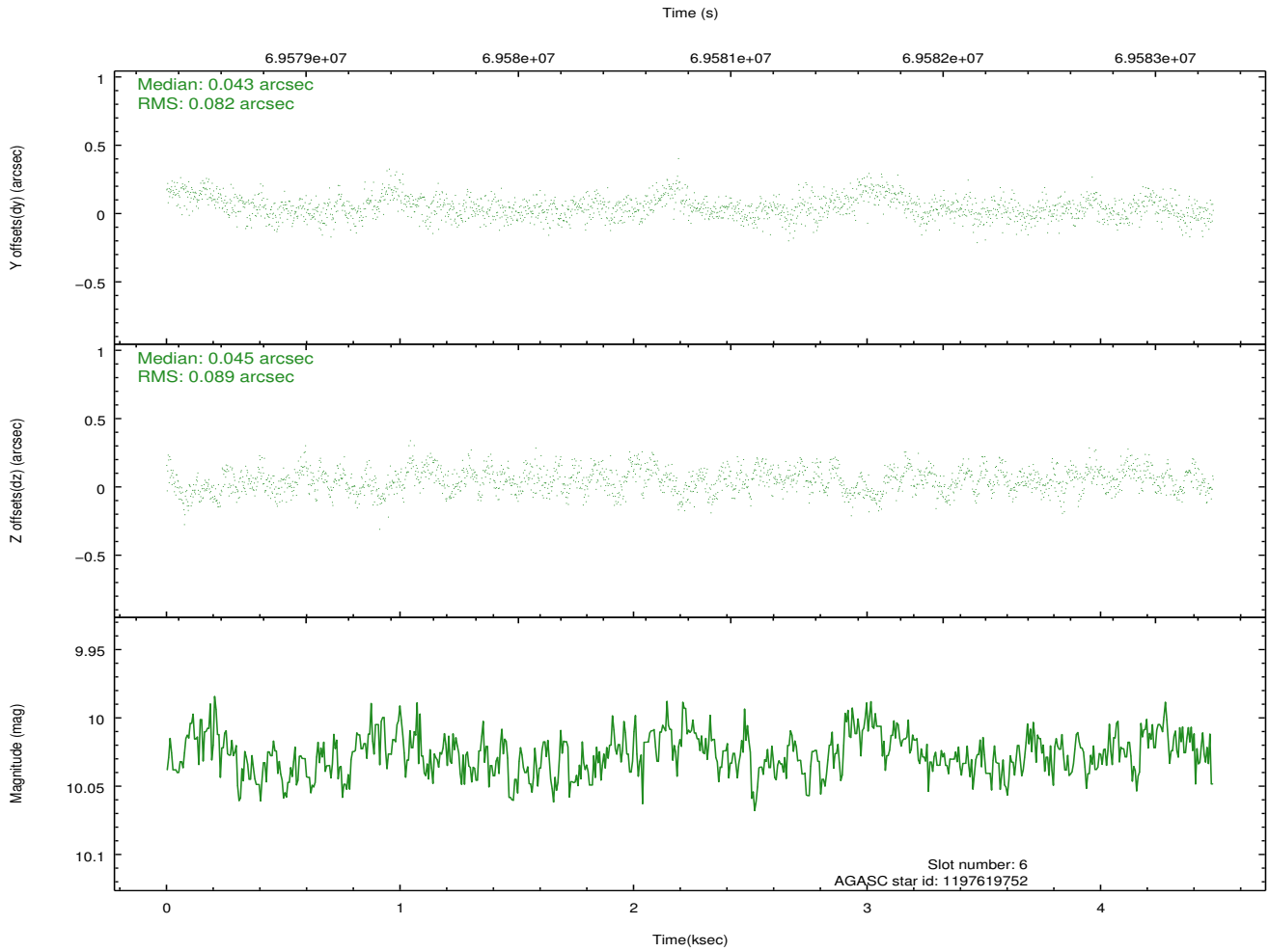
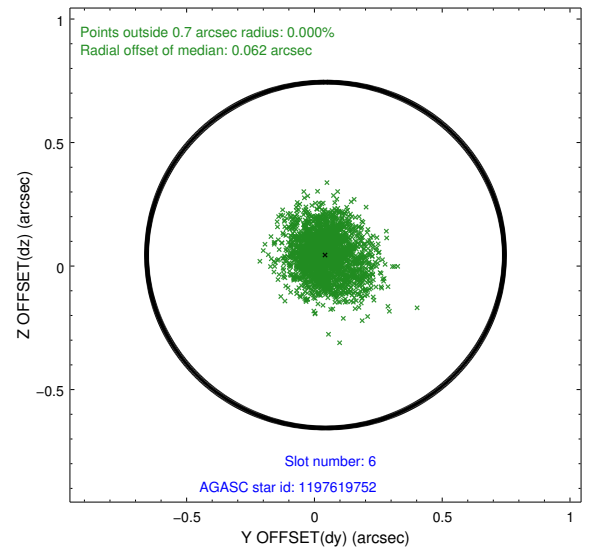
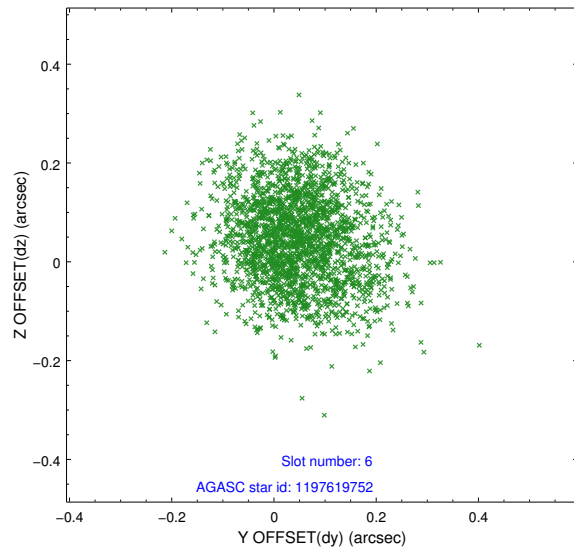
2.4.2 Slot 4



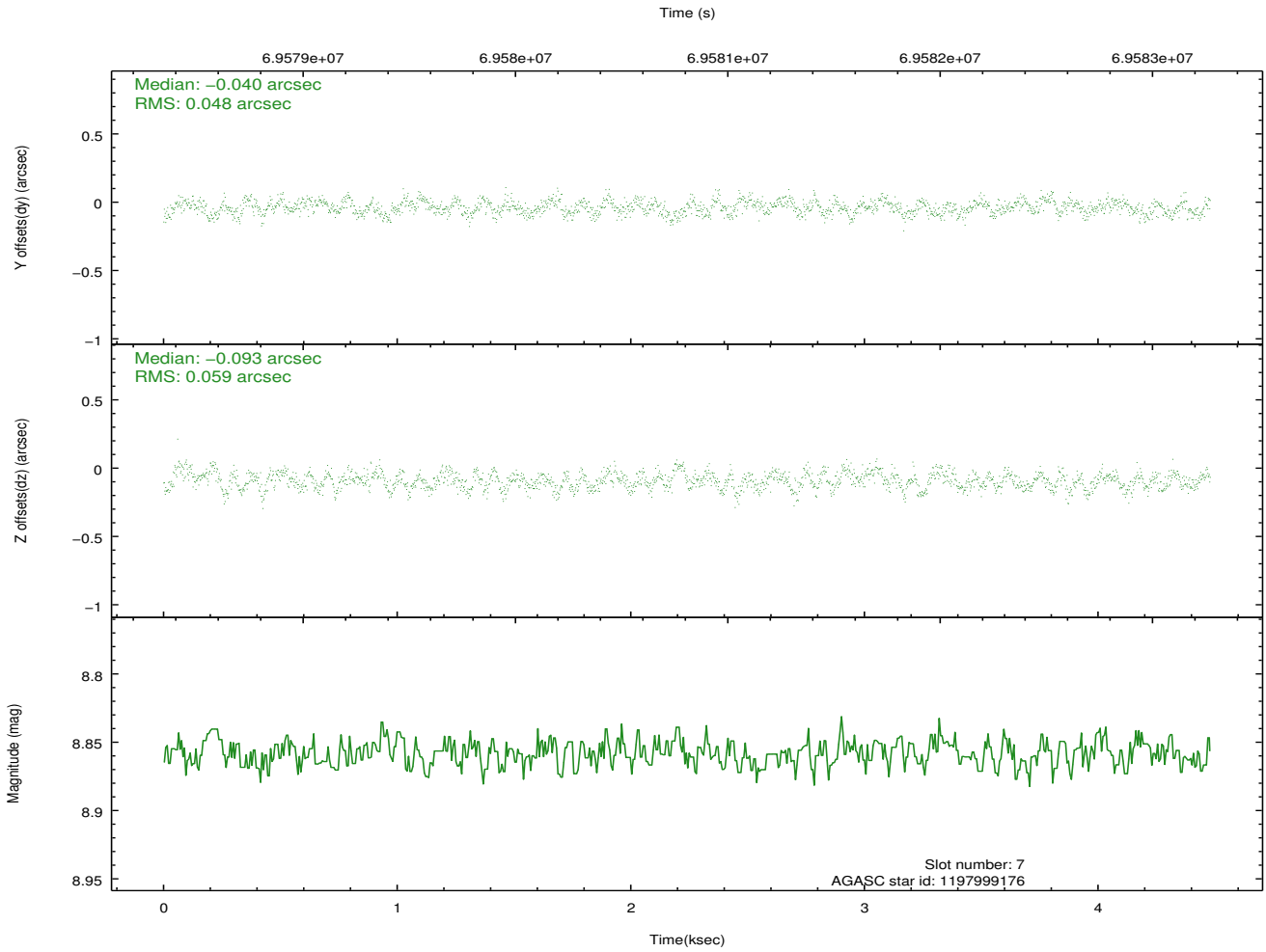
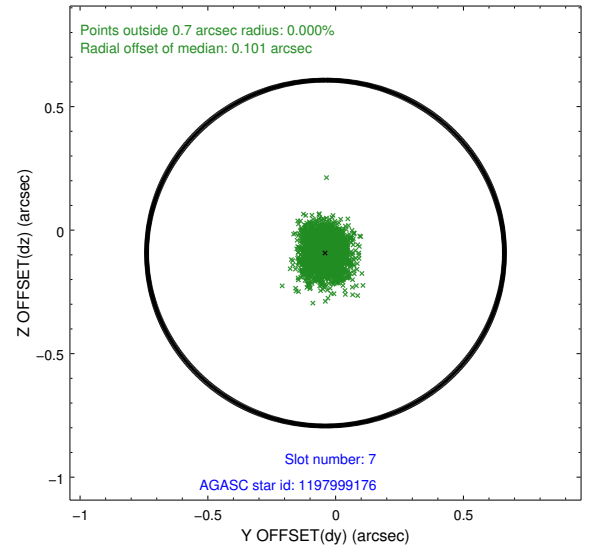
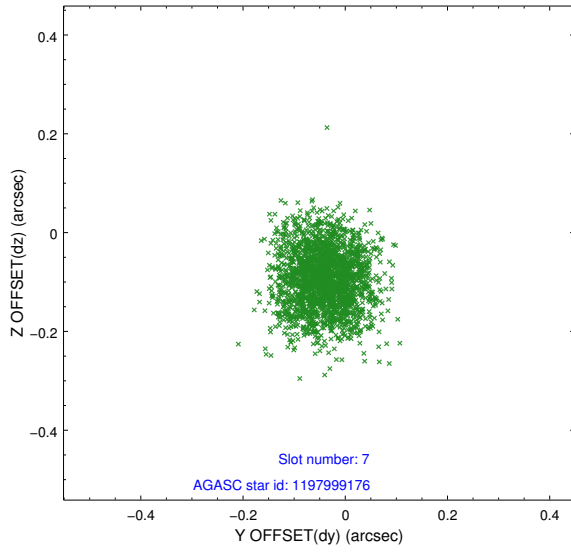
2.4.3 Slot 5



2.4.4 Slot 6

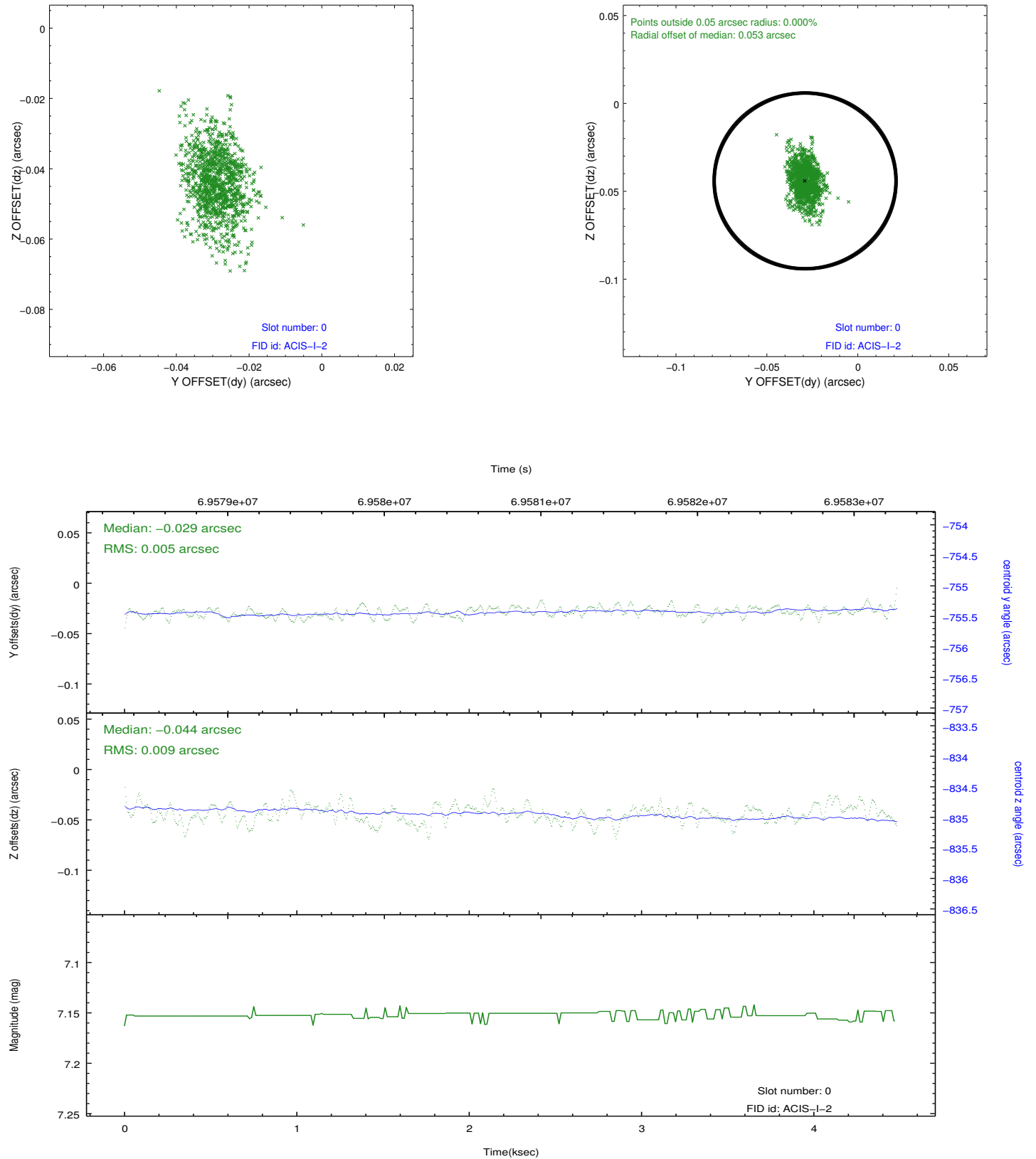


2.4.5 Slot 7

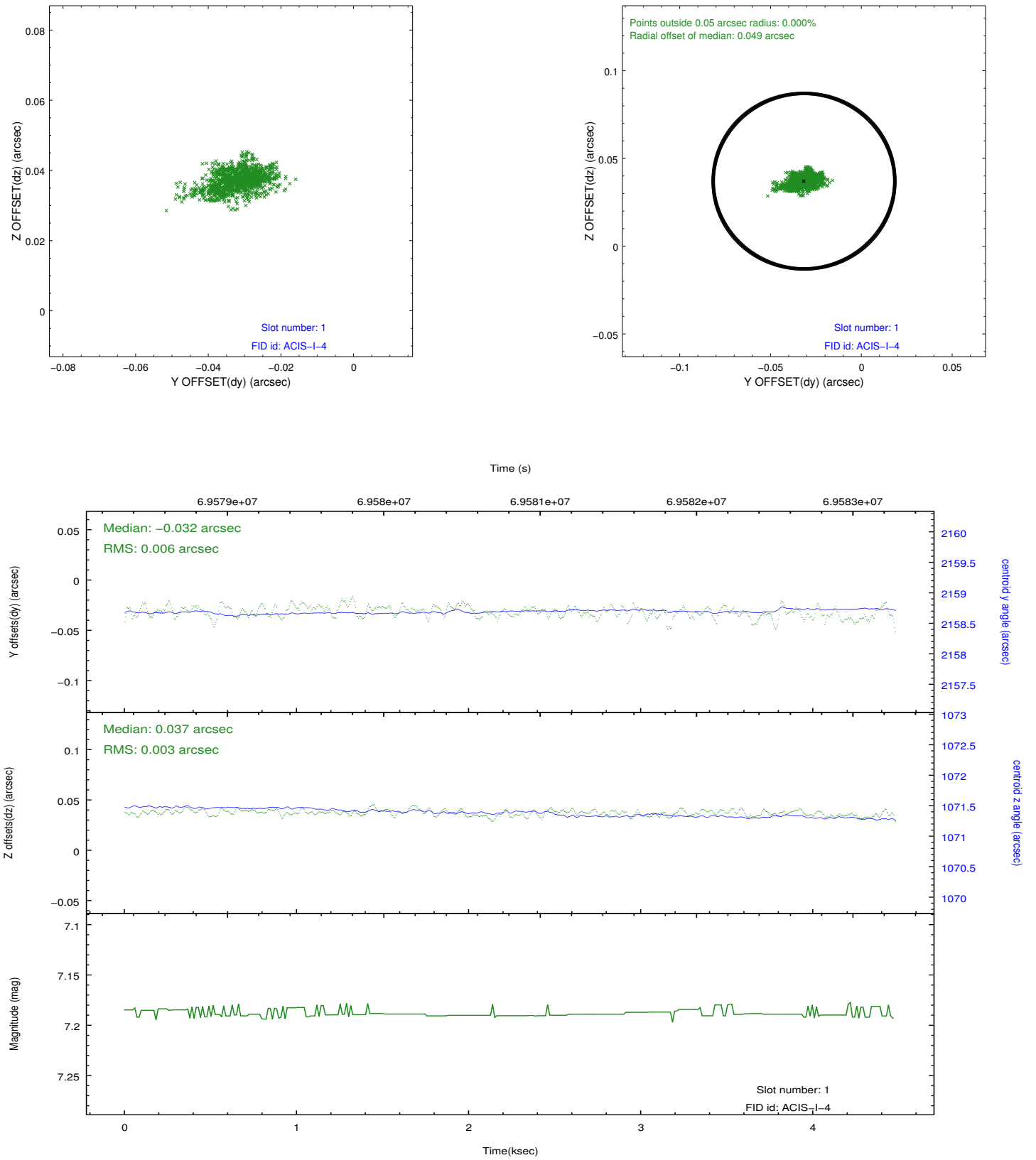


2.5 FID Slots

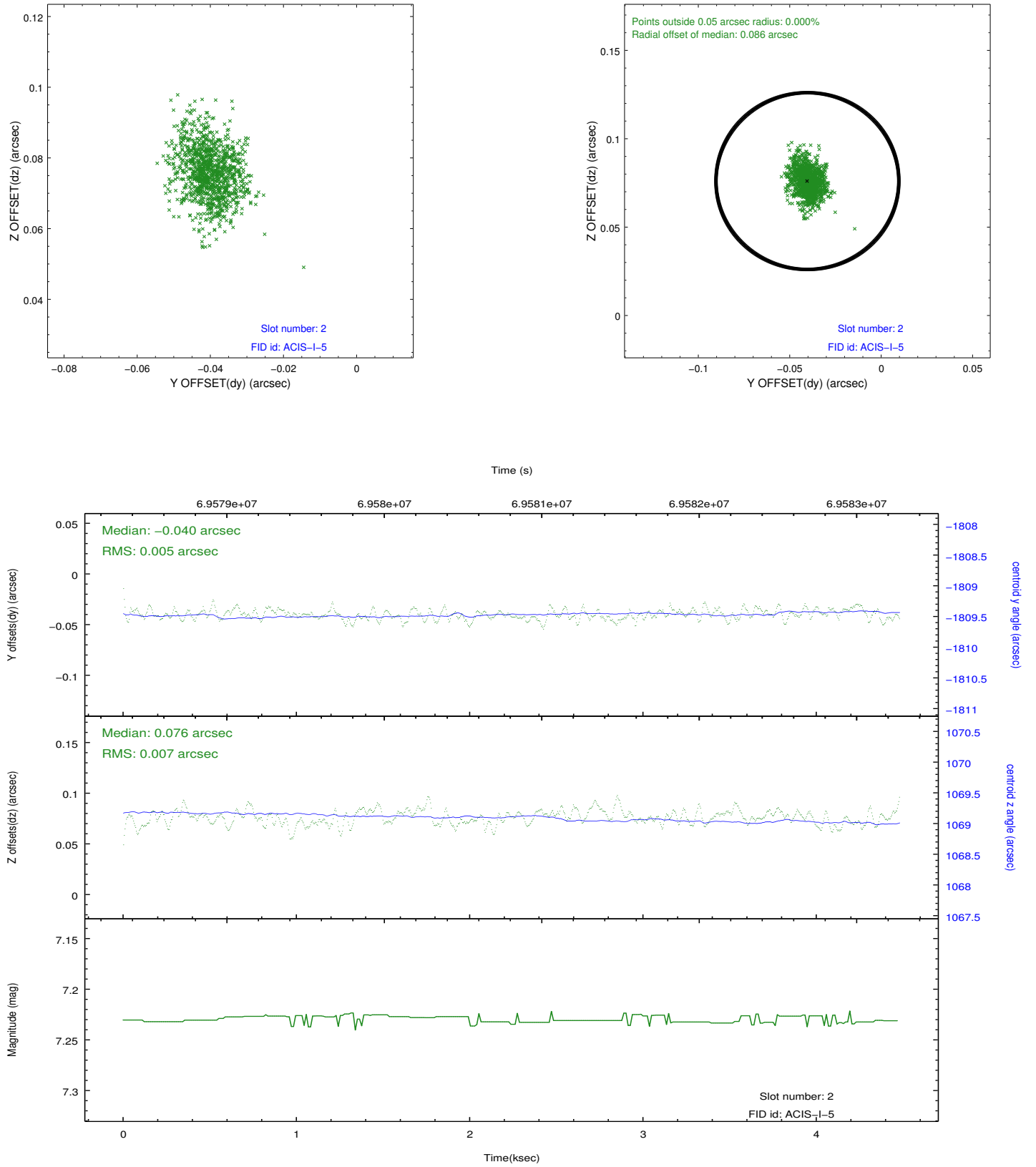
2.5.1 Slot 0



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)	2012.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.051

A.2 Comments

Roll constraint met.