

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 16770 - L2 Version 1
Chandra X-Ray Center

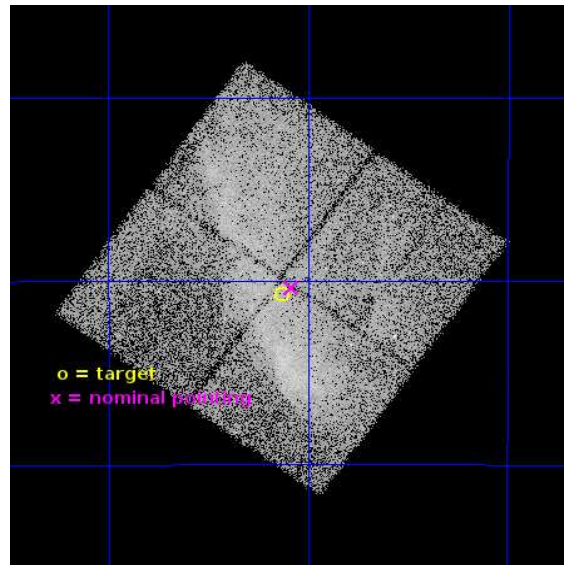
L2 Processing Date : Sep 30 2015

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1 Front

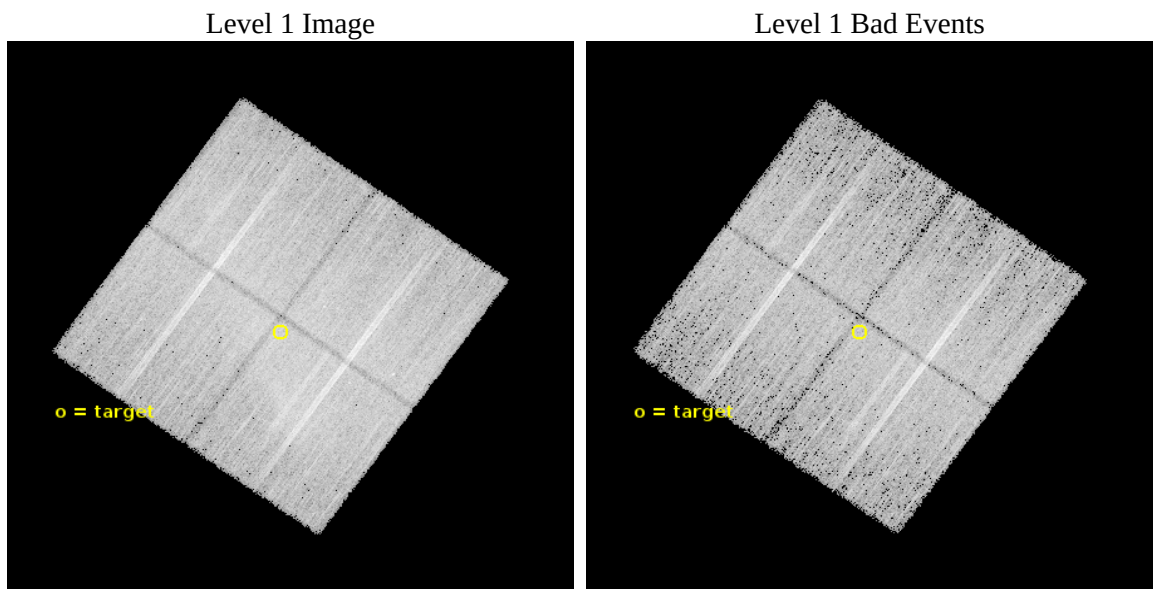
seq_num	502288	Sequence number
obs_id	16770	Observation id
title	Revisiting Vela shrapnel D: Understanding the dynamics of the SNR ejecta interaction with an interstellar cloud	Proposal title
observer	Mr. Fumiyoshi Kamitsukasa	Principal investigator
object	Vela Shrapnel D revisit	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	135.0325	Observer's specified target RA [deg]
dec_targ	-45.845194	Observer's specified target Dec [deg]
ra_nom	135.02077508818	Nominal RA [deg]
dec_nom	-45.839389897092	Nominal Dec [deg]
roll_nom	125.56028074559	Nominal Roll [deg]
revision	1	Processing version of data
ontime	32195.978331089	Sum of GTIs [s]
livetime	31775.314171859	Livetime [s]
ontime0	32192.714210987	Sum of GTIs [s]
ontime1	32192.755261064	Sum of GTIs [s]
ontime2	32192.796290994	Sum of GTIs [s]
ontime3	32195.978331089	Sum of GTIs [s]
l2events	121175	Number of level 2 events



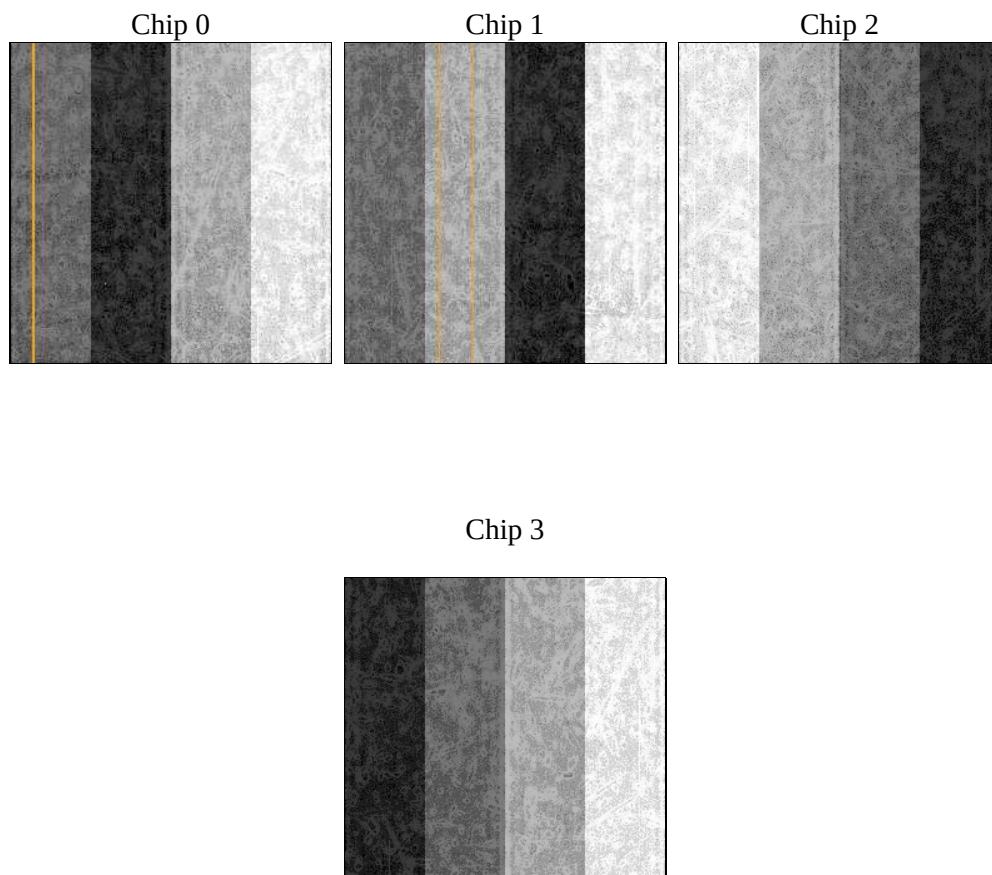
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	32121.615000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	32195.978331089	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	32192.714210987	Sum of GTIs [s]
date	2015-09-30T23:50:57	Date and time of file creation	ontime1	32192.755261064	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	32192.796290994	Sum of GTIs [s]
			ontime3	32195.978331089	Sum of GTIs [s]
			l1events	713295	Number of level 1 events

2.1.4 Events

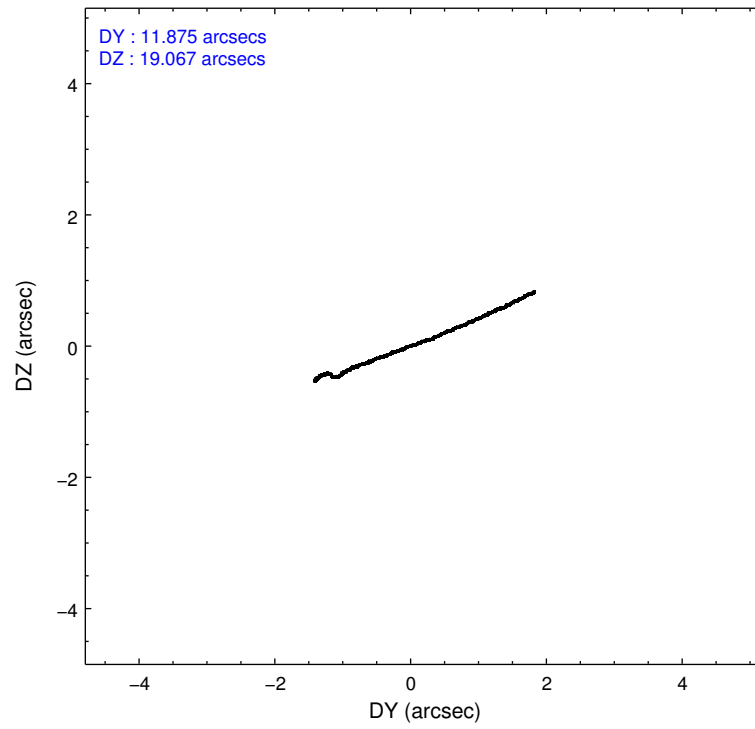
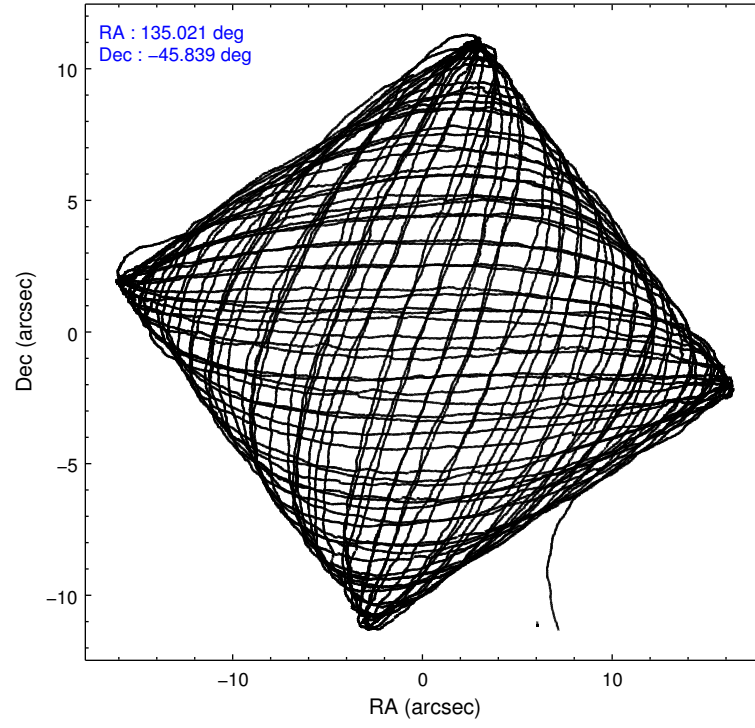
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	176987	166882	182147	187279
rejected events	135790	139272	151476	148941
rejected %	76%	83%	83%	79%

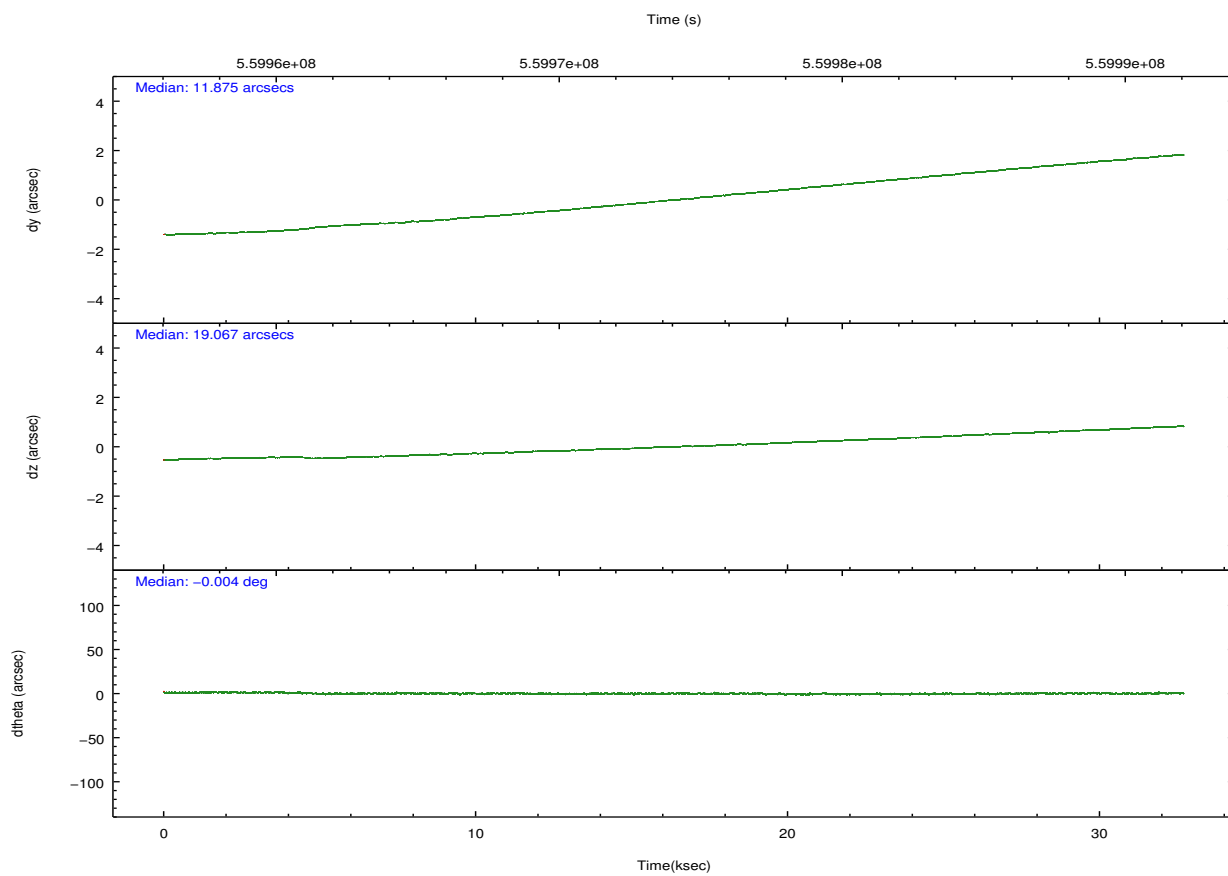
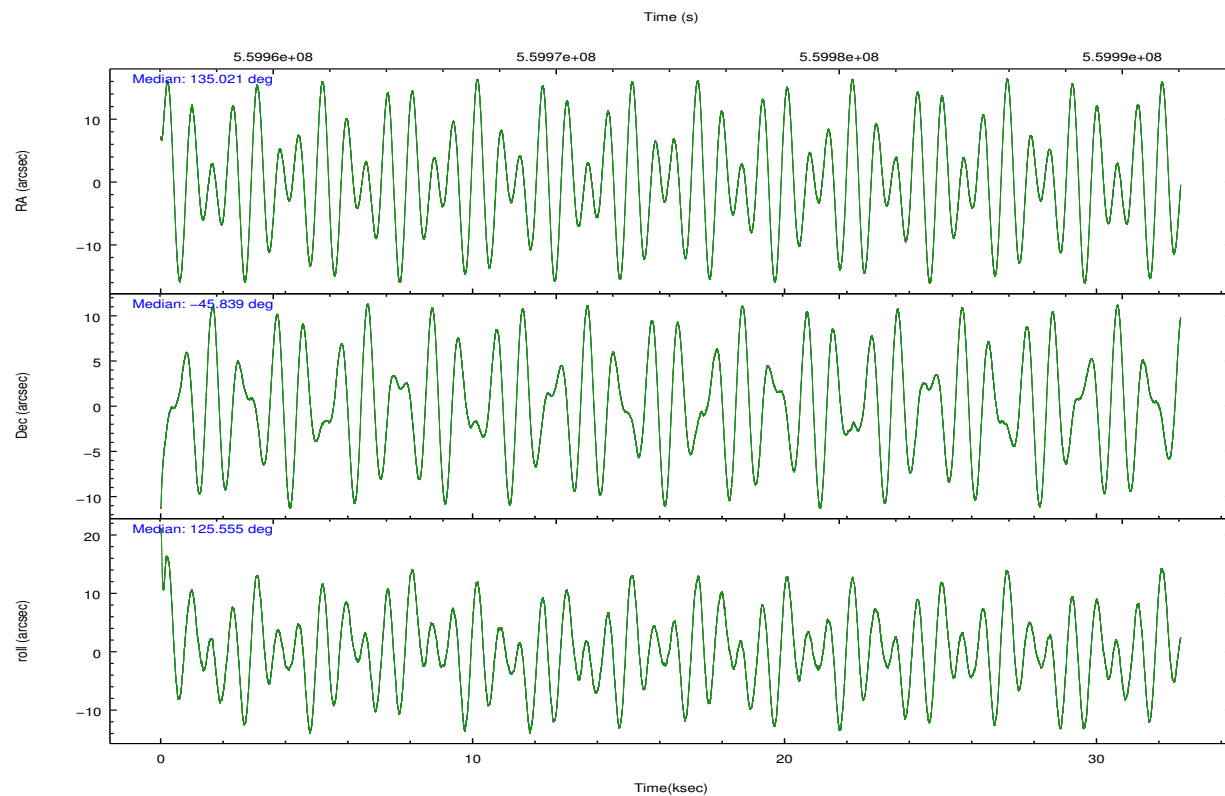
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	25831	12554	16596	24040
	14%	7%	9%	12%
grade 1 events	159	105	128	164
	0%	0%	0%	0%
grade 2 events	6544	5893	5780	5568
	3%	3%	3%	2%
grade 3 events	2421	2157	2139	2259
	1%	1%	1%	1%
grade 4 events	2246	2156	2139	2364
	1%	1%	1%	1%
grade 5 events	7895	8204	7483	8813
	4%	4%	4%	4%
grade 6 events	4165	4856	4024	4119
	2%	2%	2%	2%
grade 7 events	127726	130957	143858	139952
	72%	78%	78%	74%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	135.056895	135.0207750881775	Subarray requested	NONE	NONE
[deg] Pointing Dec	-45.850707	-45.83938989709174	Alternating exposures requested	N	N
[deg] Pointing Roll	125.377505	125.5602807455861	[s] Primary exposure time	0.000000	3.1
[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)	559958275.184000	559957204.97226			
Observation start date	2015-09-29T23:56:47	2015-09-29T23:40:04			
[s] Observation end time (MET)	559990397.184000	559990625.61165			
Observation end date	2015-09-30T08:52:09	2015-09-30T08:57:05			
Read mode	TIMED	TIMED			

2.3 Aspect



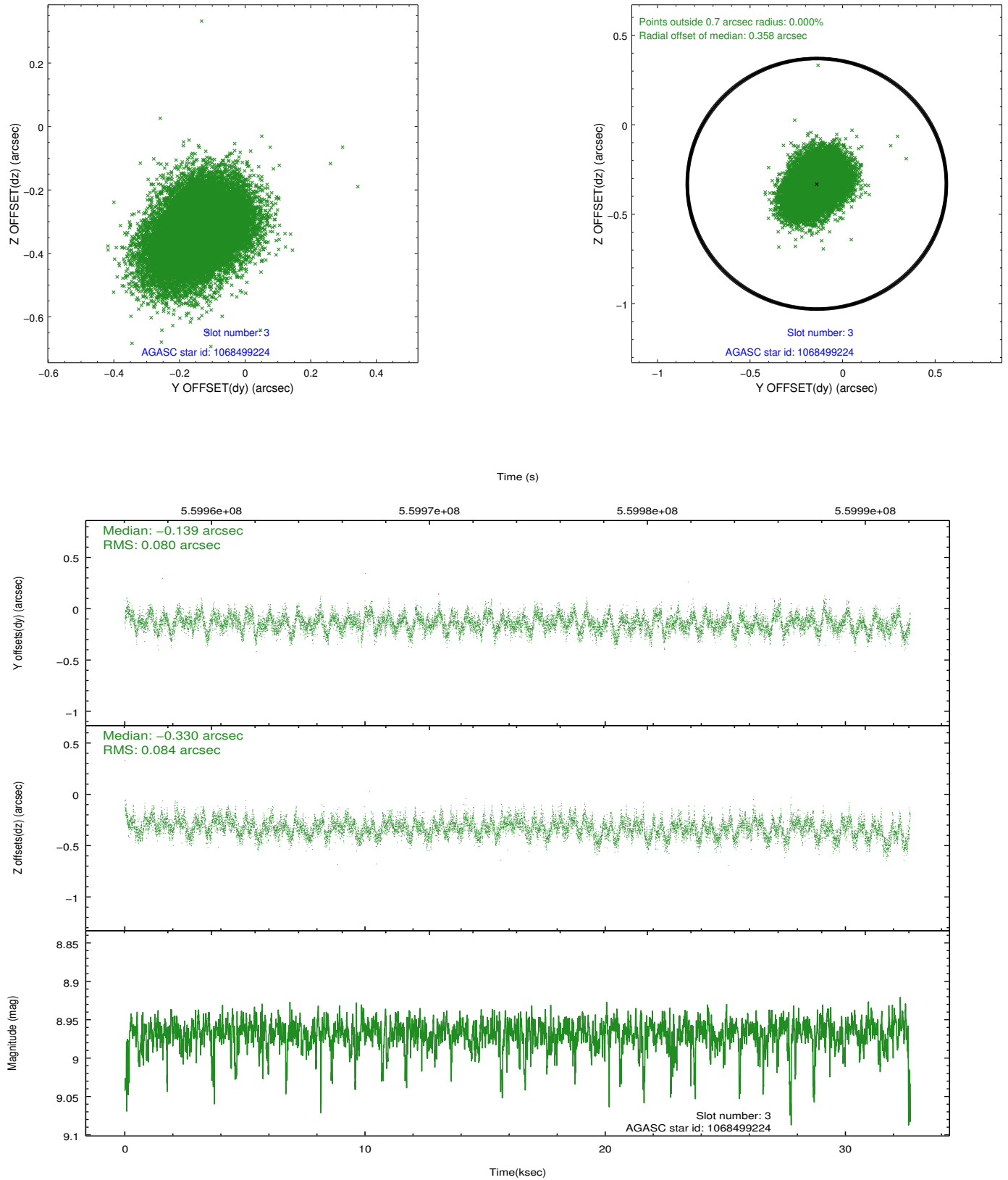


Slot Statistics

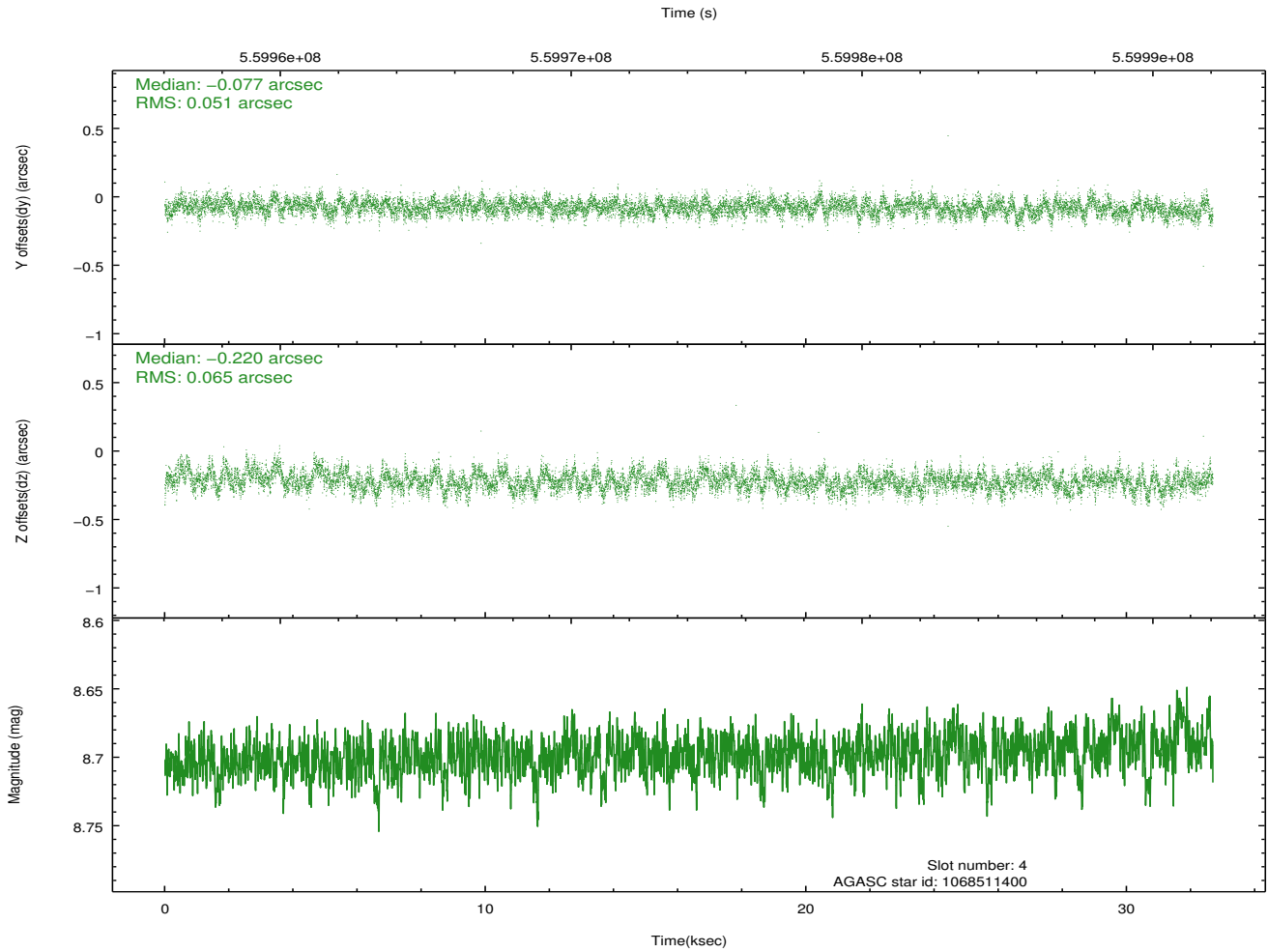
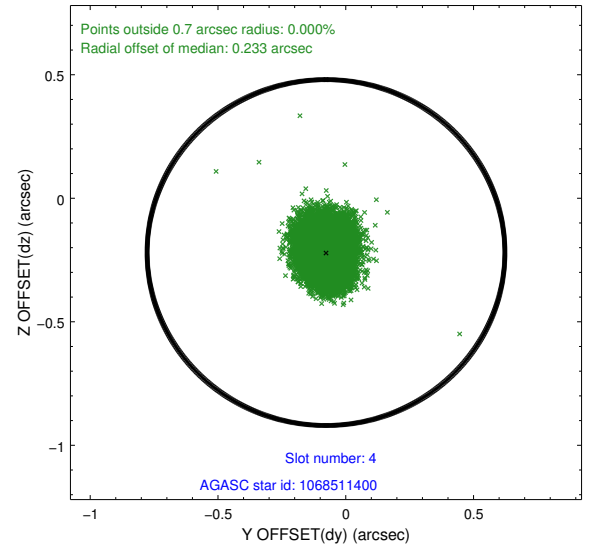
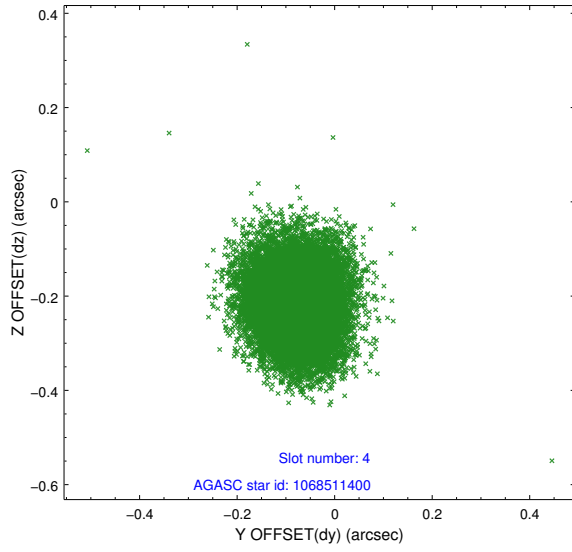
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	7974	0.084	-0.027	0.016	0.031	0.000000	0.000000	927.72	-842.83
1	FID		ACIS-I-5	7.25	7970	-0.297	0.065	0.014	0.024	0.000000	0.000000	-1820.80	1054.65
2	FID		ACIS-I-6	7.24	7974	0.121	0.029	0.020	0.043	0.000000	0.000000	393.16	1699.25
3	GUIDE	used	1068499224	8.97	15942	-0.139	-0.330	0.124	0.200	133.849709	-45.670998	2267.33	2114.67
4	GUIDE	used	1068511400	8.70	15938	-0.077	-0.220	0.087	0.143	134.611510	-46.094770	-74.64	1417.03
5	GUIDE	used	1070209576	8.84	15939	0.226	0.200	0.139	0.209	135.786576	-45.653817	-490.77	-1902.33
6	GUIDE	used	1070210456	9.02	15933	-0.059	0.076	0.107	0.173	135.144108	-45.194483	1799.24	-1547.75
7	GUIDE	used	1070212768	9.02	15933	0.050	0.277	0.119	0.189	135.934654	-45.618471	-606.97	-2278.95

2.4 Star Slots

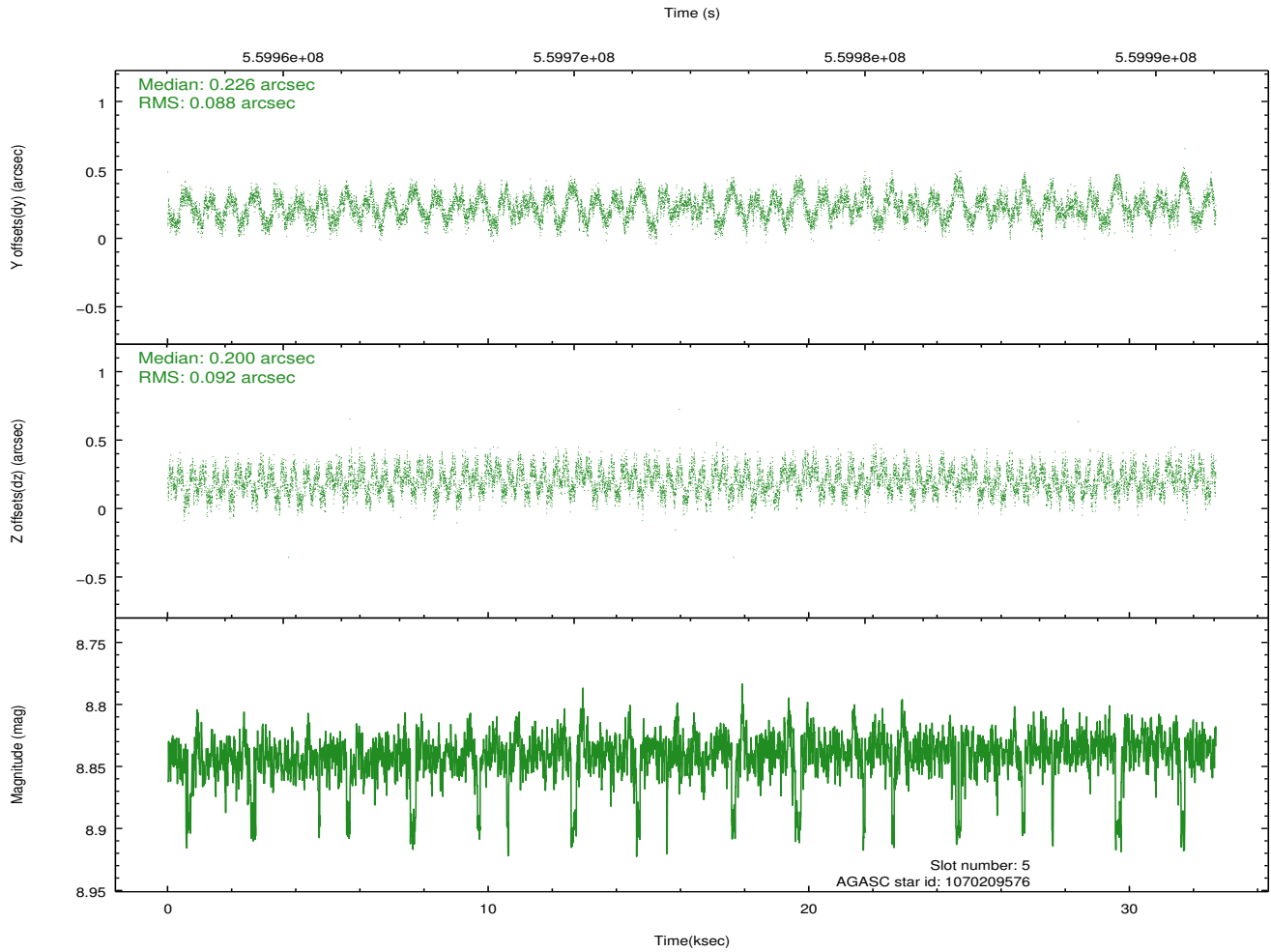
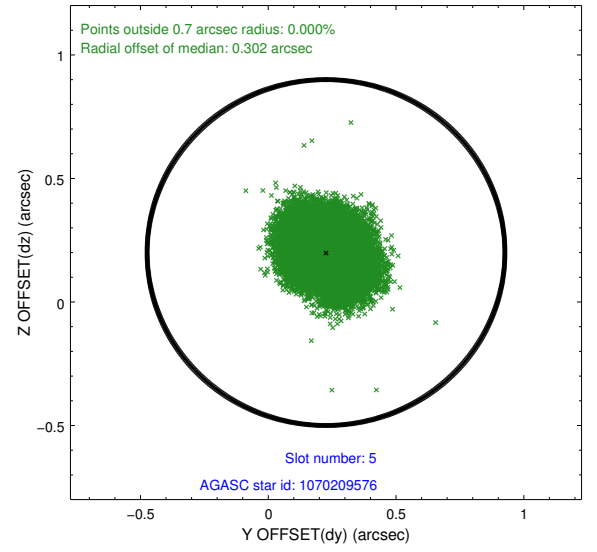
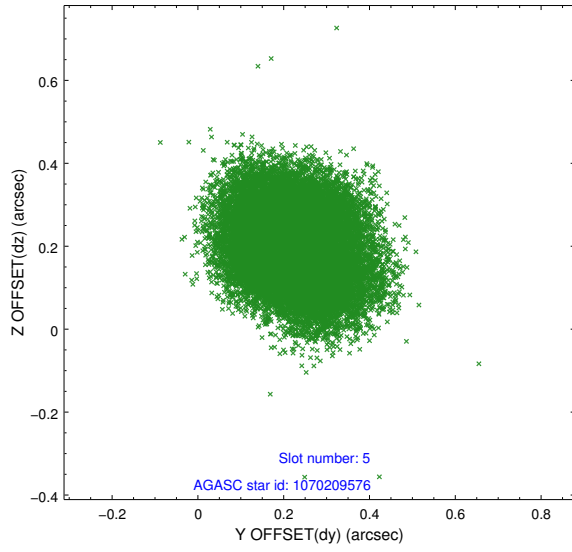
2.4.1 Slot 3



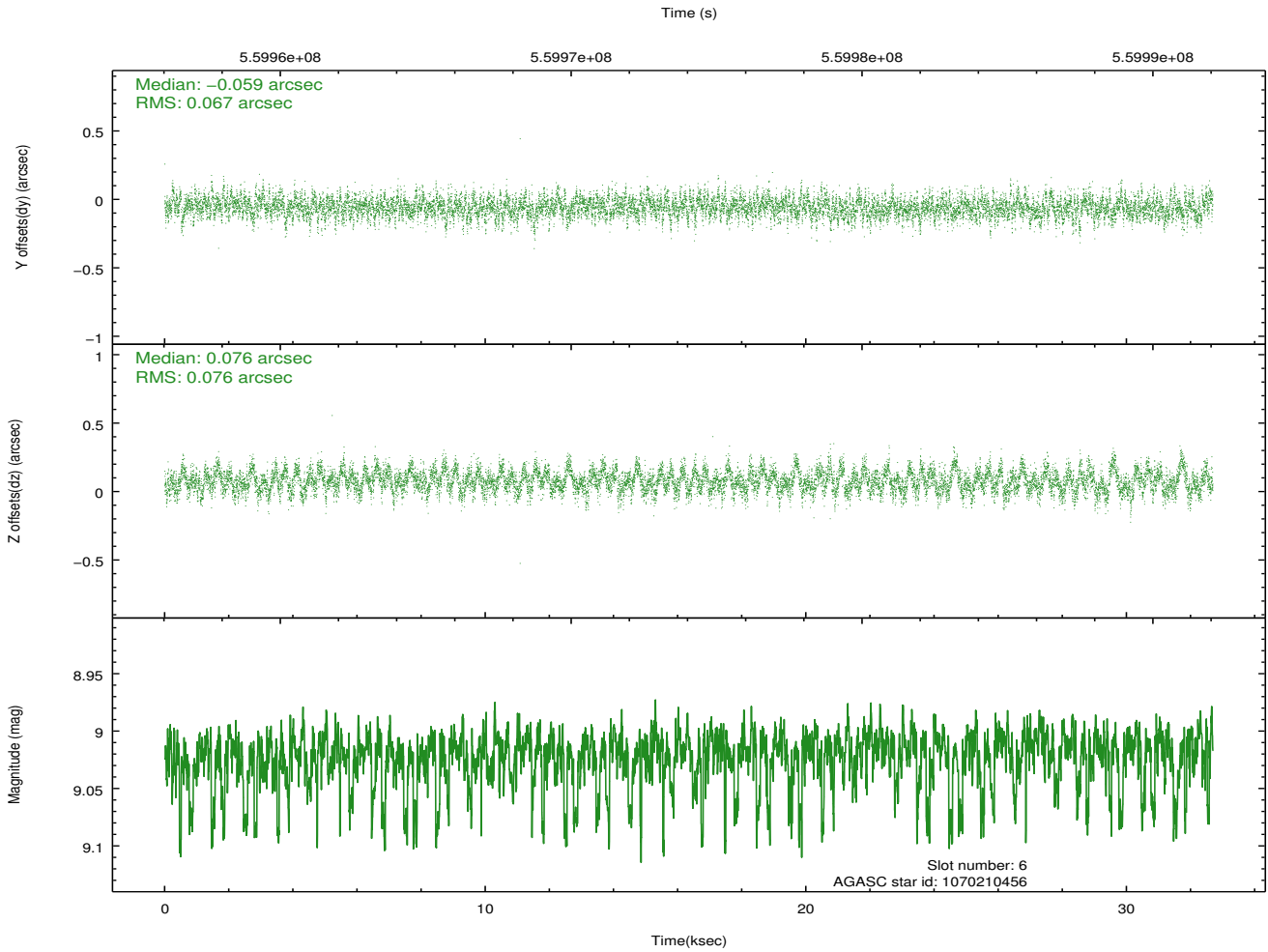
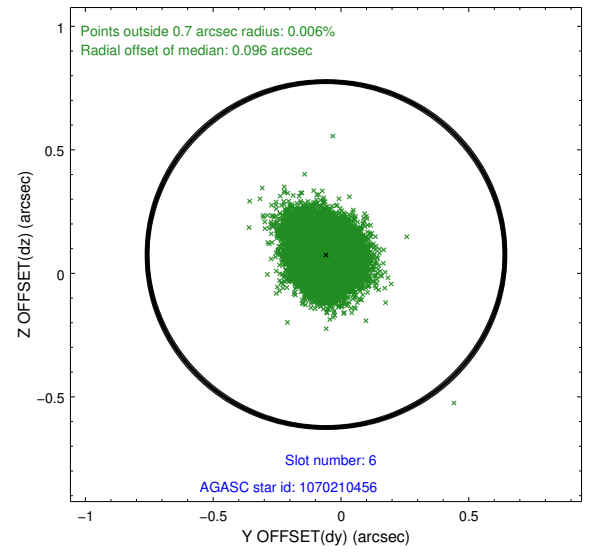
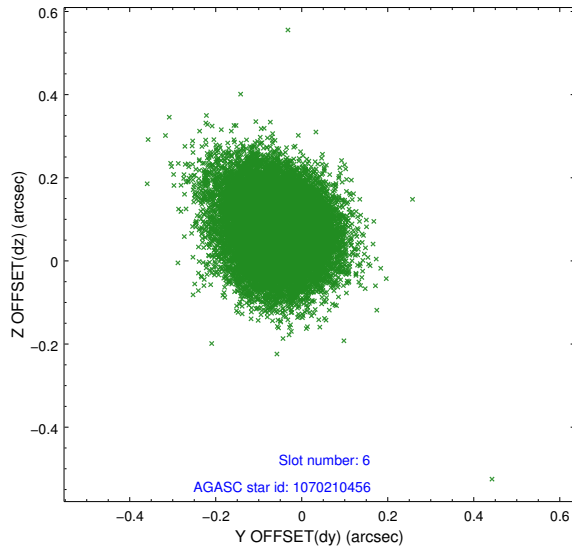
2.4.2 Slot 4



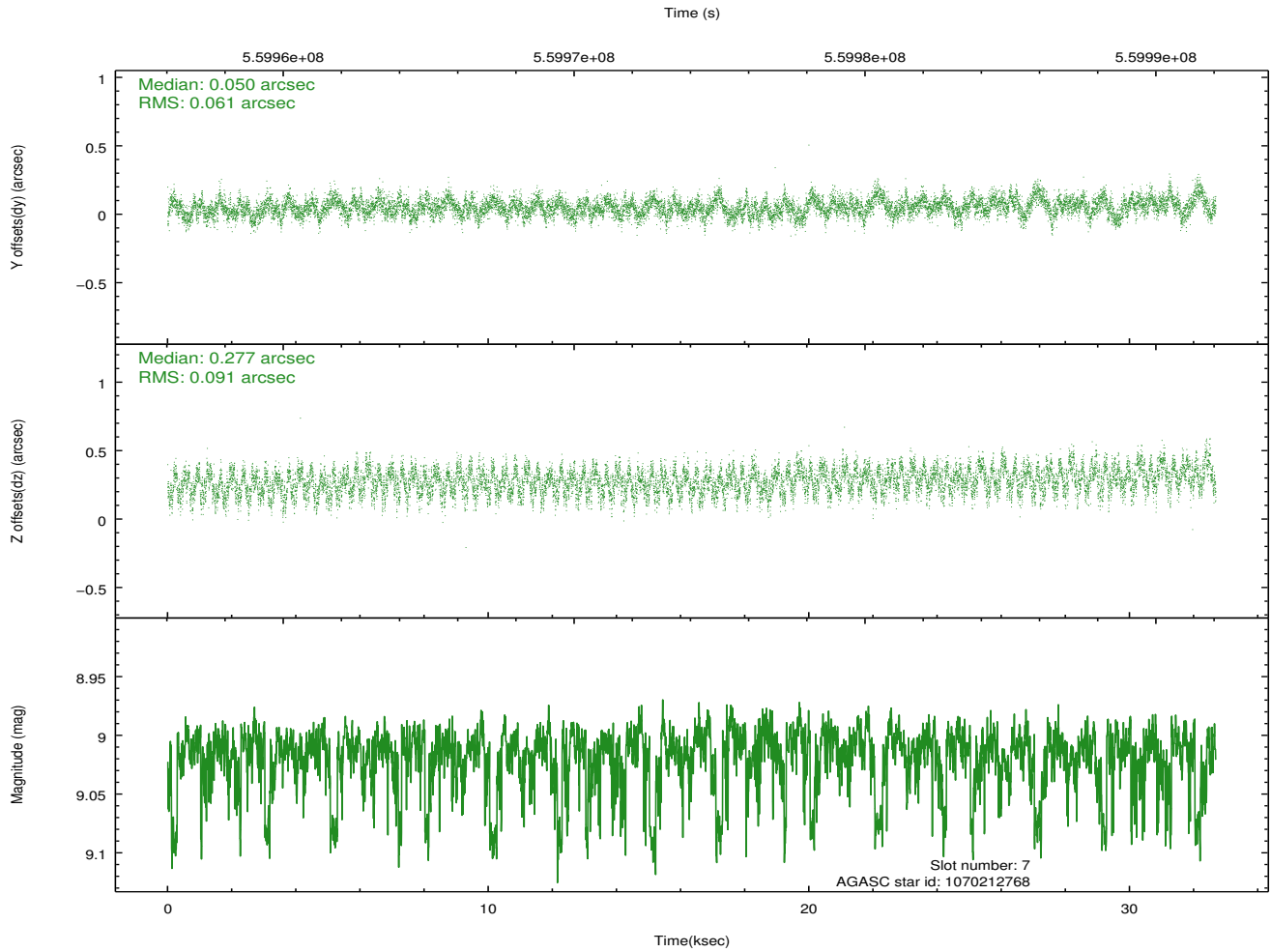
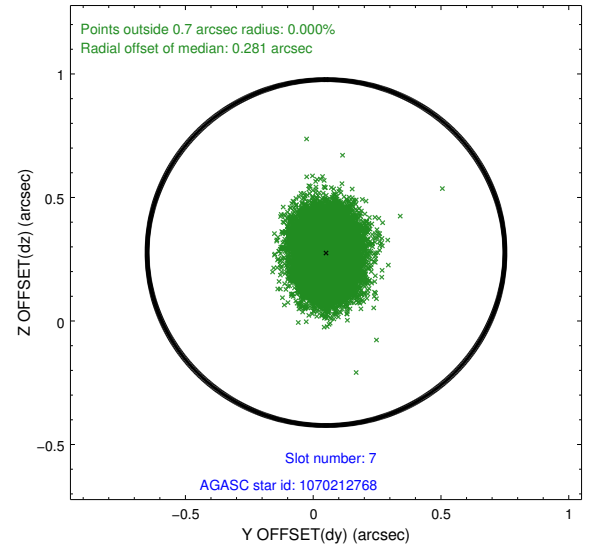
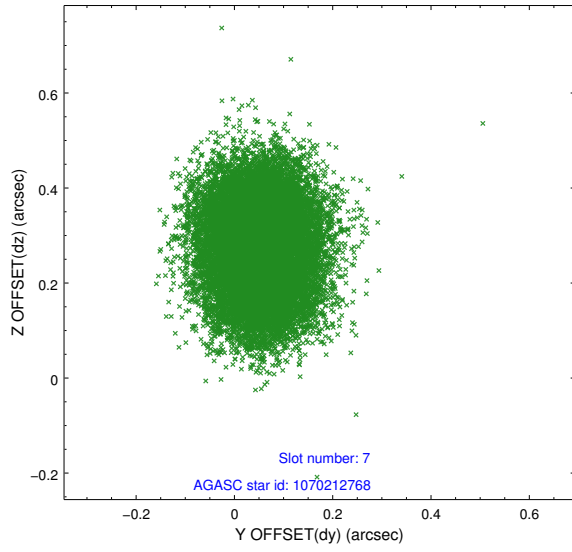
2.4.3 Slot 5



2.4.4 Slot 6

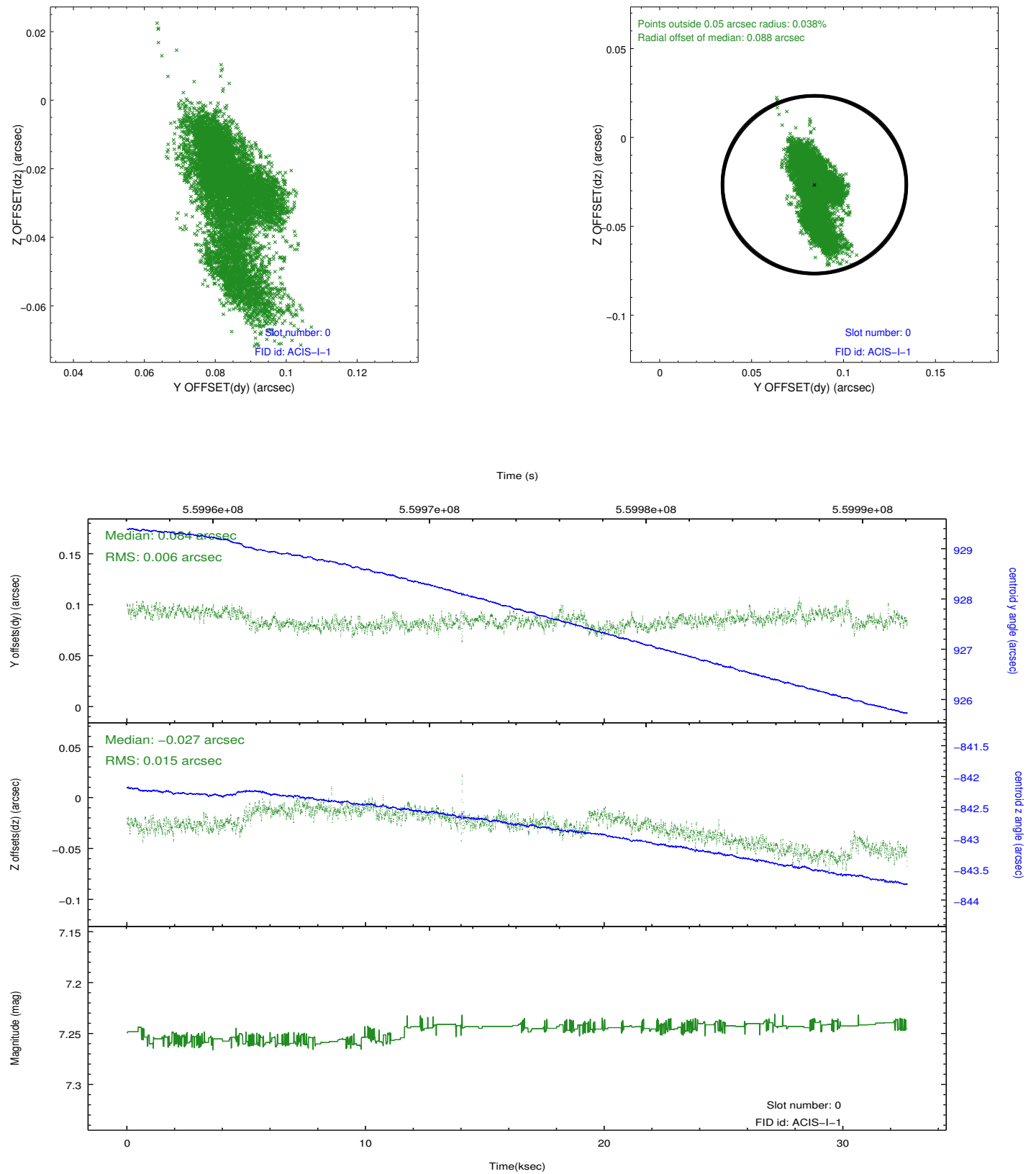


2.4.5 Slot 7

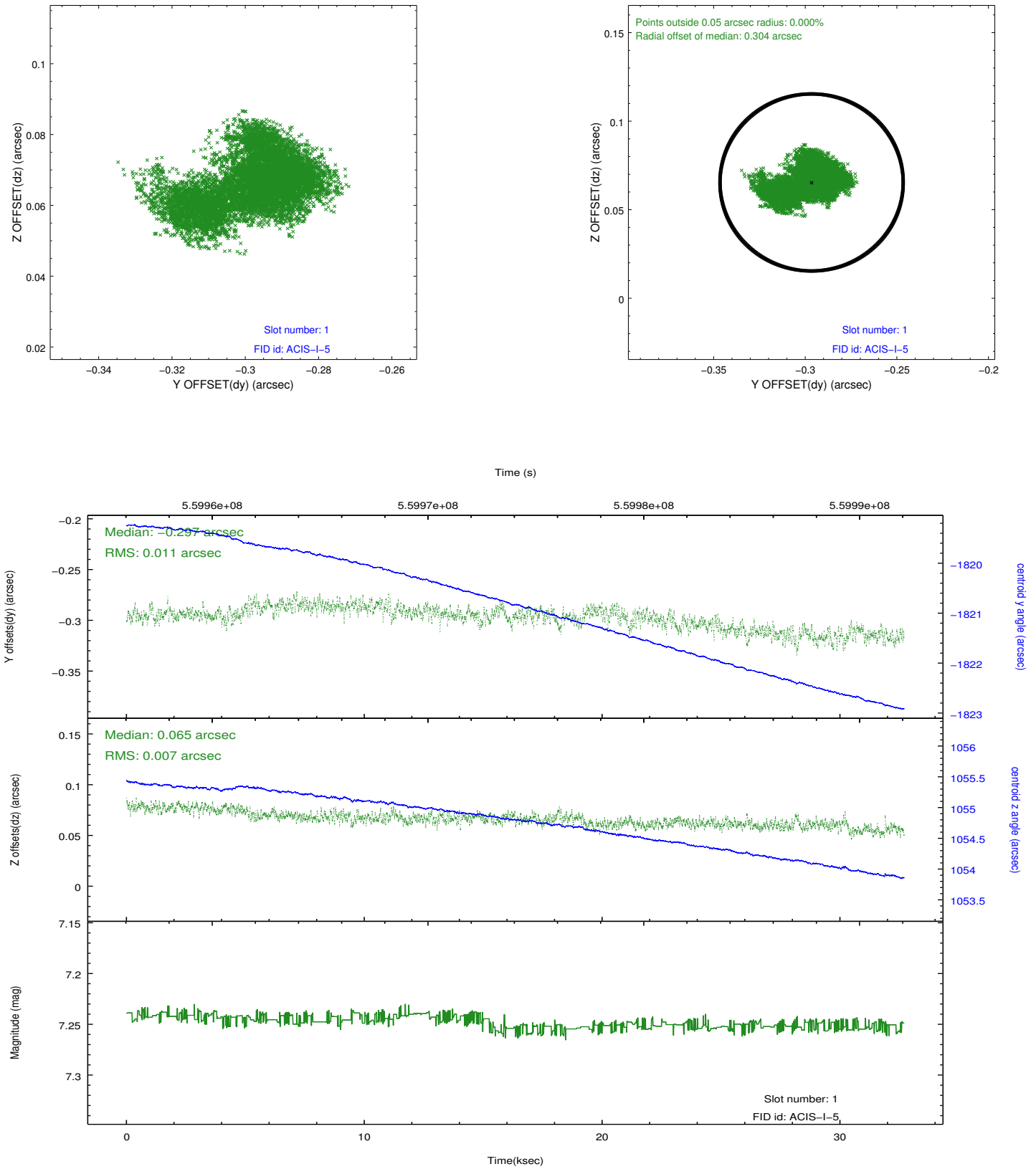


2.5 FID Slots

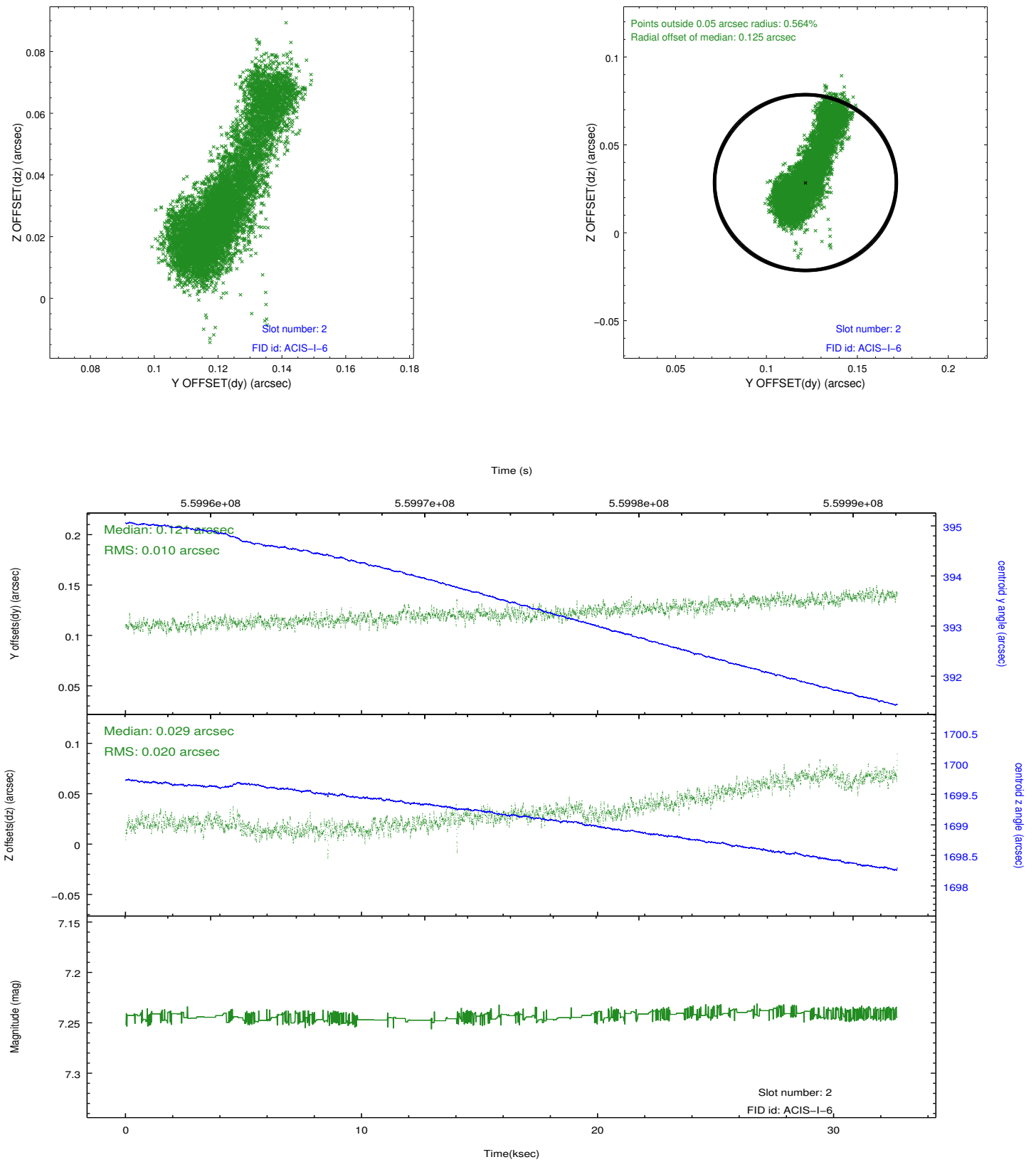
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.195978331089

A.2 Comments