

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2869 - L2 Version 3
Chandra X-Ray Center

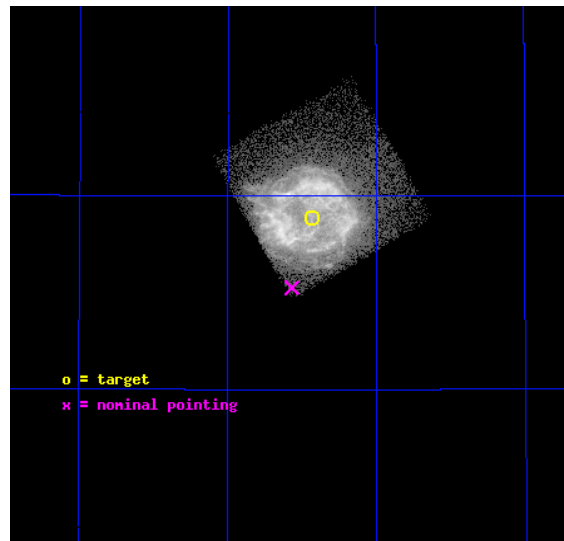
L2 Processing Date : Oct 2 2012

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1 Front

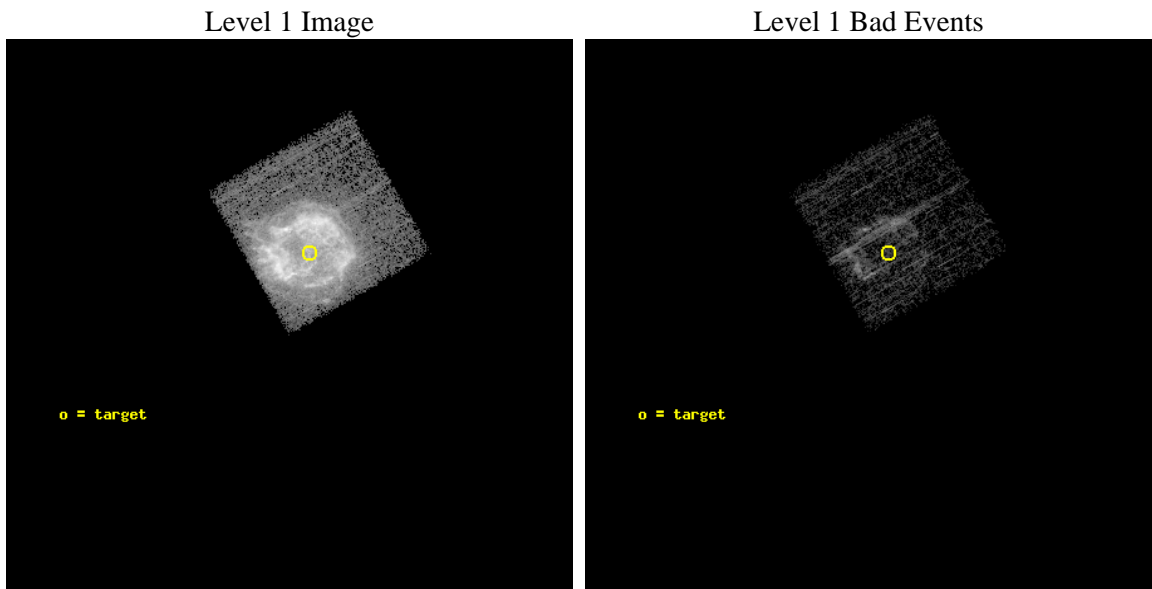
seq_num	590258	Sequence number
obs_id	2869	Observation id
title	AO3A CALIBRATION OBSERVATIONS THE STANDARD CANDLES CAS A AND G21.5-09	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip I3, T=120, Offsets=-2,2,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.89239116913	Nominal RA [deg]
dec_nom	58.754206804277	Nominal Dec [deg]
roll_nom	330.24246350631	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1439.8876201063	Sum of GTIs [s]
livetime	1421.6548960643	Livetime [s]
ontime0	1955.200001806	Sum of GTIs [s]
ontime1	1955.200001806	Sum of GTIs [s]
ontime2	1955.200001806	Sum of GTIs [s]
ontime3	1439.8876201063	Sum of GTIs [s]
ontime6	1955.200001806	Sum of GTIs [s]
ontime7	1955.200001806	Sum of GTIs [s]
l2events	308229	Number of level 2 events



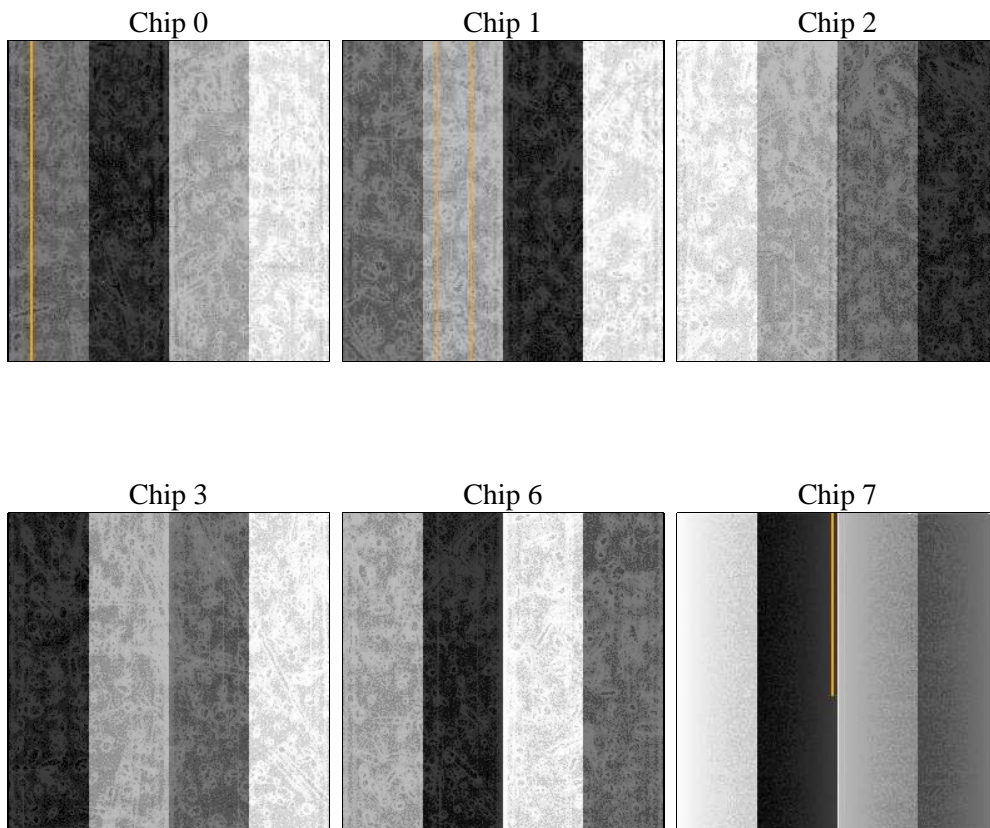
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1439.8876201063	Sum of GTIs [s]
caldbver	4.5.2	 	ontime0	1955.200001806	Sum of GTIs [s]
date	2012-10-02T05:08:55	Date and time of file creation	ontime1	1955.200001806	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	1955.200001806	Sum of GTIs [s]
			ontime3	1439.8876201063	Sum of GTIs [s]
			ontime6	1955.200001806	Sum of GTIs [s]
			ontime7	1955.200001806	Sum of GTIs [s]
			l1events	372661	Number of level 1 events

2.1.4 Events

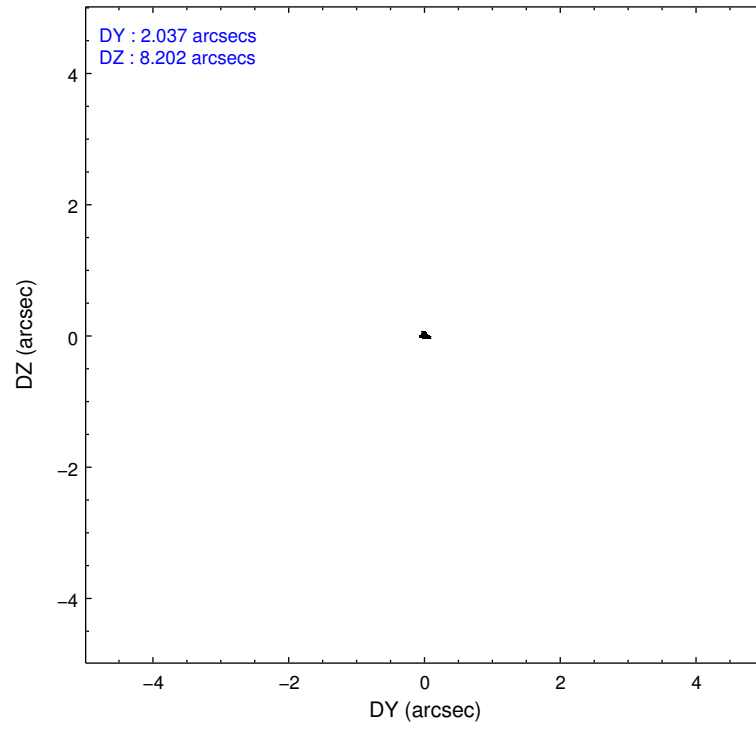
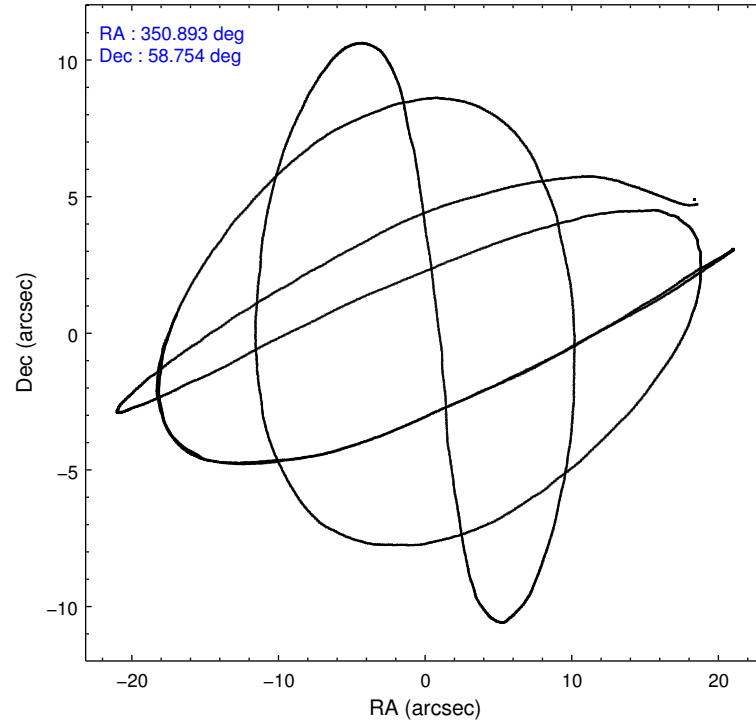
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	0	0	0	372661	0	0
rejected events	0	0	0	51069	0	0
rejected %	0%	0%	0%	13%	0%	0%

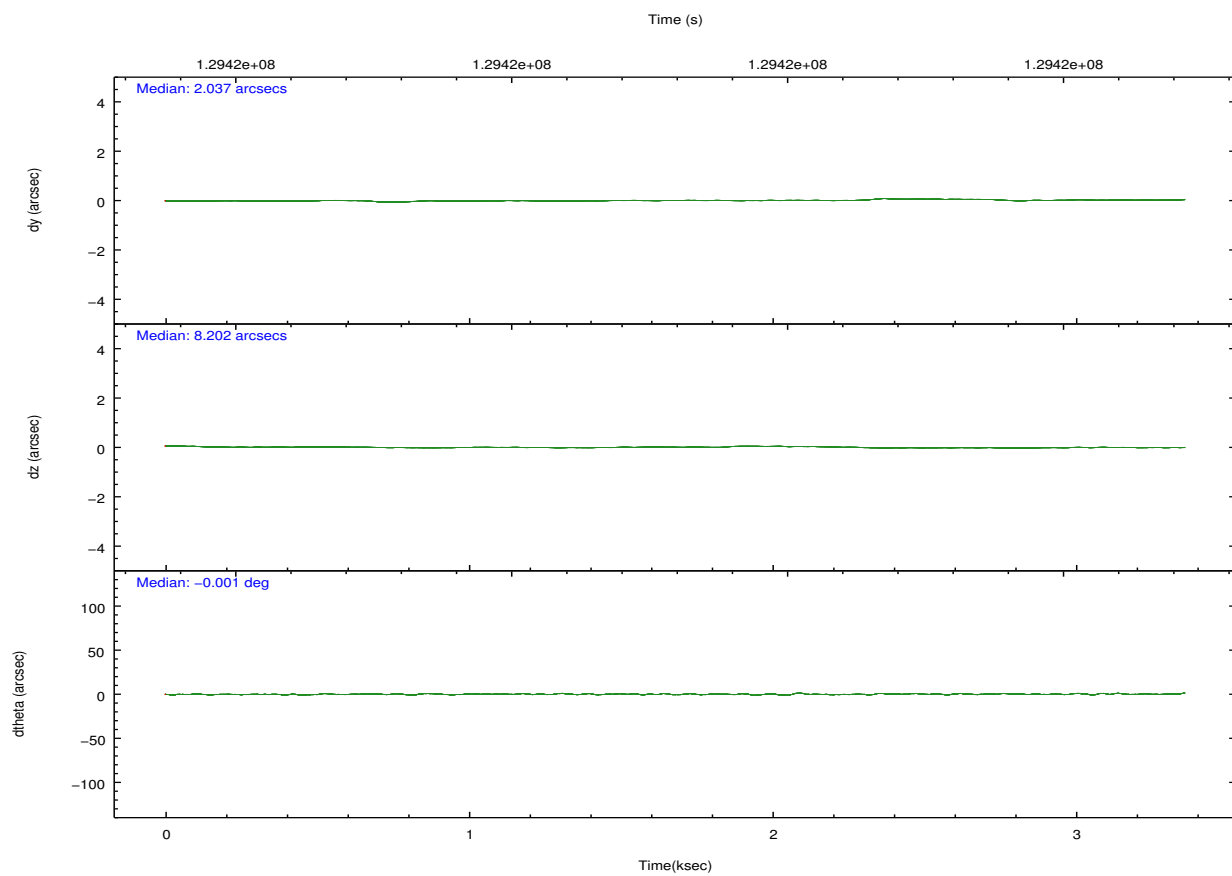
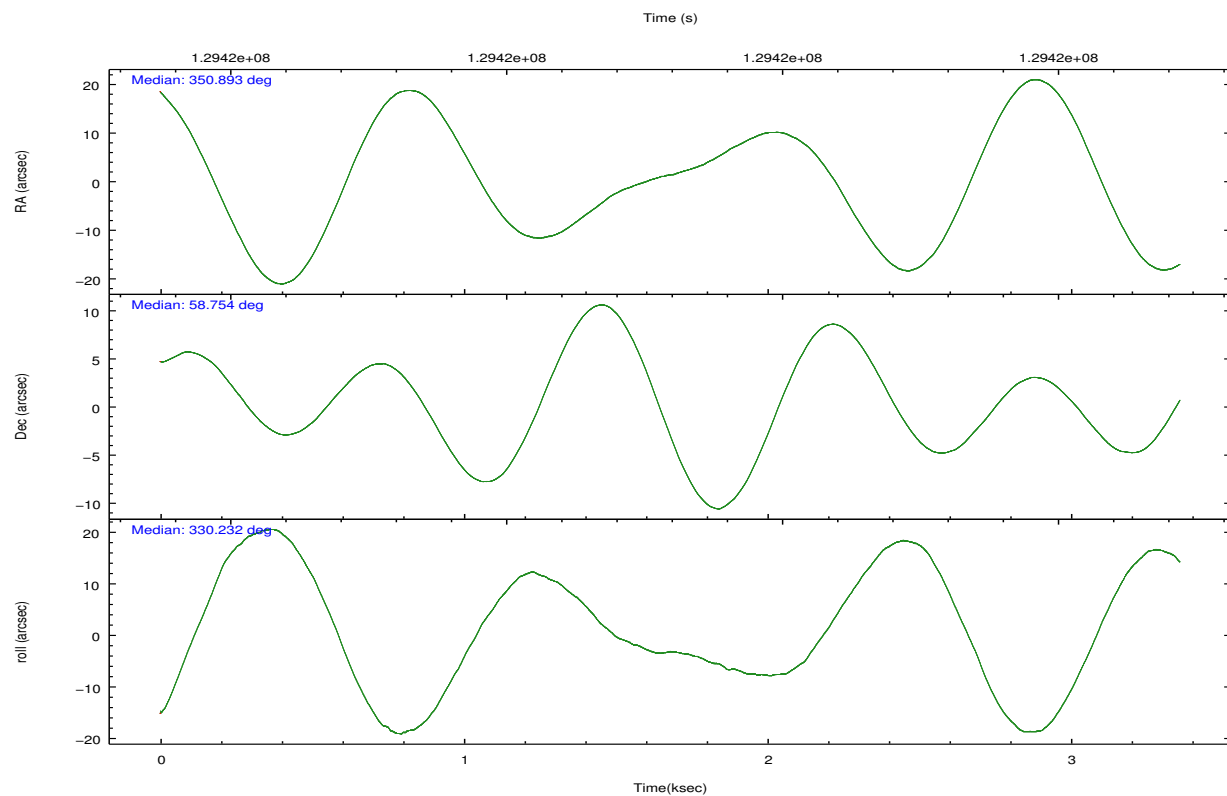
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	0	0	0	261610	0	0
	0%	0%	0%	70%	0%	0%
grade 1 events	0	0	0	4289	0	0
	0%	0%	0%	1%	0%	0%
grade 2 events	0	0	0	33718	0	0
	0%	0%	0%	9%	0%	0%
grade 3 events	0	0	0	10263	0	0
	0%	0%	0%	2%	0%	0%
grade 4 events	0	0	0	10274	0	0
	0%	0%	0%	2%	0%	0%
grade 5 events	0	0	0	2865	0	0
	0%	0%	0%	0%	0%	0%
grade 6 events	0	0	0	7125	0	0
	0%	0%	0%	1%	0%	0%
grade 7 events	0	0	0	42517	0	0
	0%	0%	0%	11%	0%	0%

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	350.839648	350.8923911691288	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.754008	58.75420680427708	Alternating exposures requested	N	N
[deg] Pointing Roll	330.078878	330.2424635063134	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	126230464.184000	126230464.184000			
[s] Window stop time (MET)	131241664.184000	131241664.184000			
[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)	129420270.184000	129418723.76518			
Observation start date	2002-02-06T22:03:26	2002-02-06T21:38:43			
[s] Observation end time (MET)	129422270.184000	129422735.61534			
Observation end date	2002-02-06T22:36:46	2002-02-06T22:45:35			
Read mode	TIMED	TIMED			

2.3 Aspect



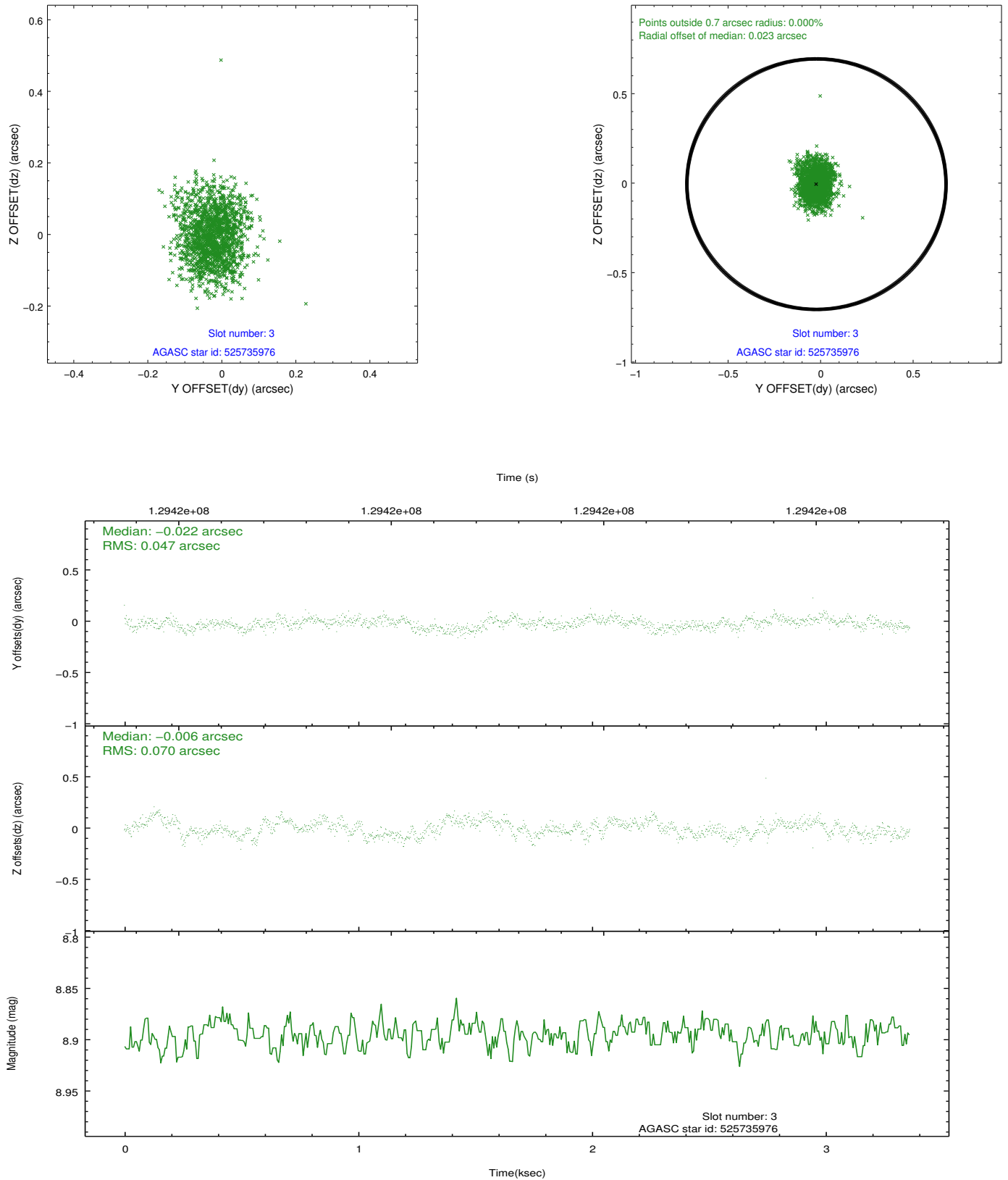


Slot Statistics

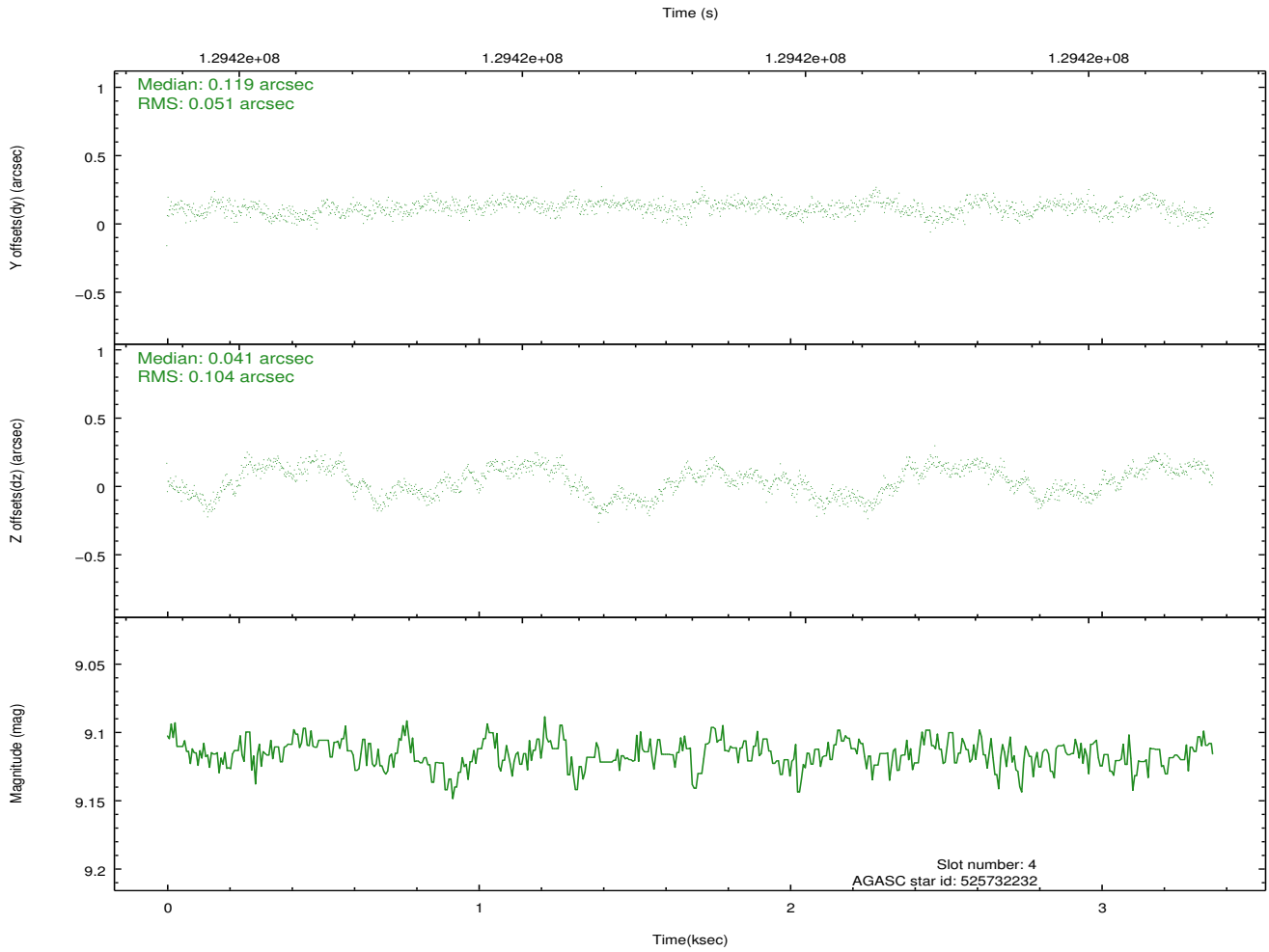
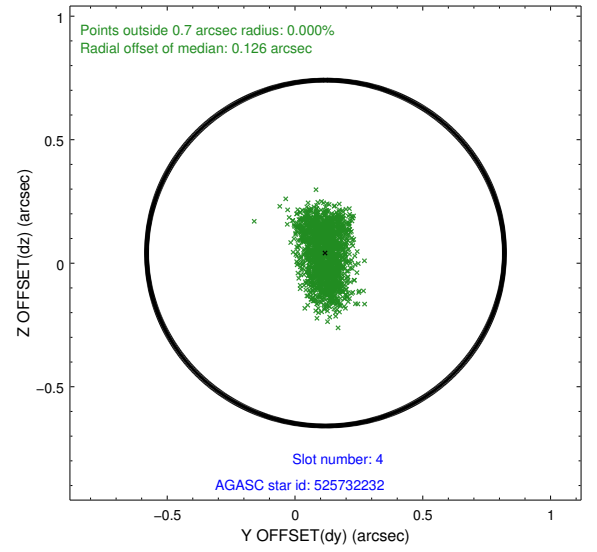
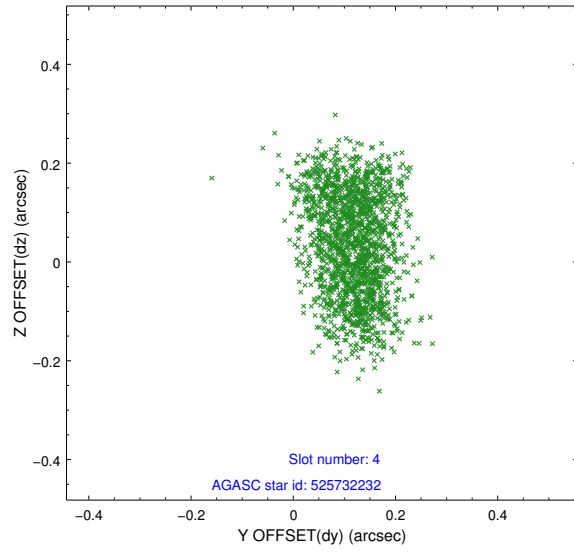
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	819	-0.041	0.075	0.006	0.011	0.000000	0.000000	937.73	-831.56
1	FID	ACIS-I-5	7.23	820	-0.019	0.028	0.006	0.010	0.000000	0.000000	-1809.28	1064.97
2	FID	ACIS-I-6	7.26	820	-0.031	-0.033	0.006	0.011	0.000000	0.000000	401.27	1711.52
3	GUIDE	525735976	8.89	1638	-0.022	-0.006	0.090	0.145	350.142956	58.277622	-290.42	-2138.78
4	GUIDE	525732232	9.12	1640	0.119	0.041	0.127	0.195	351.669550	58.757012	1333.19	789.09
5	GUIDE	525609504	9.07	1640	-0.022	0.036	0.083	0.137	349.896632	58.356658	-835.07	-2117.42
6	GUIDE	525732528	9.37	1627	-0.067	-0.039	0.119	0.189	351.607241	59.298932	239.42	2409.27
7	GUIDE	525737208	9.37	1637	-0.001	-0.035	0.106	0.171	351.154109	59.407897	-675.63	2329.68

2.4 Star Slots

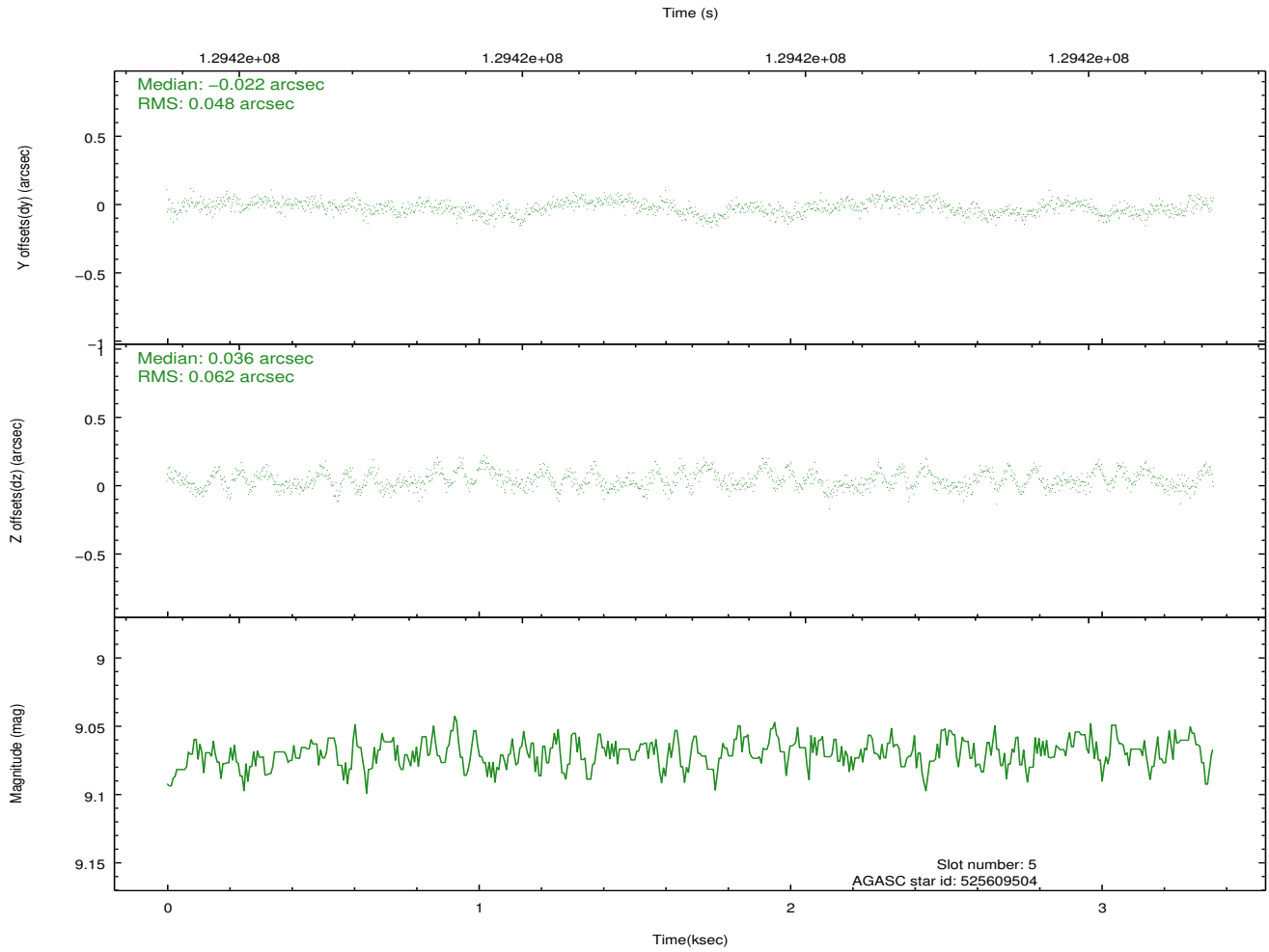
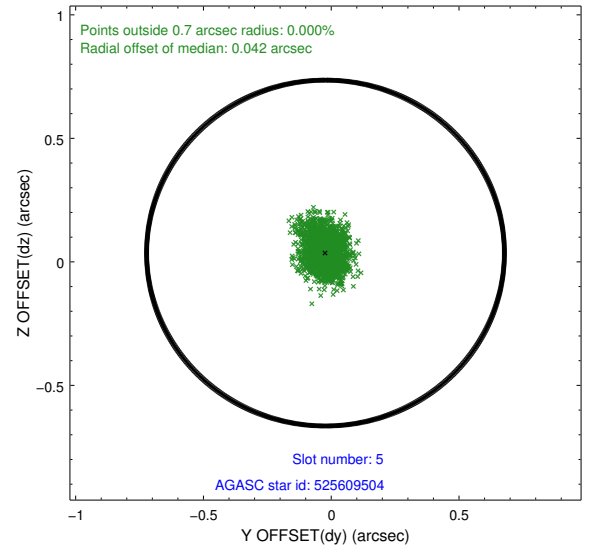
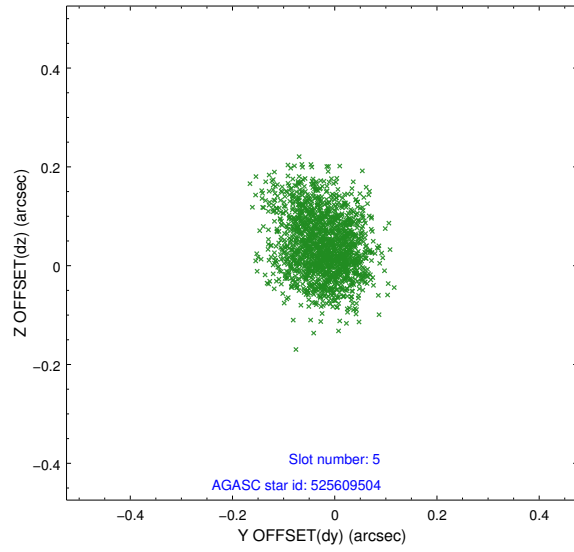
2.4.1 Slot 3



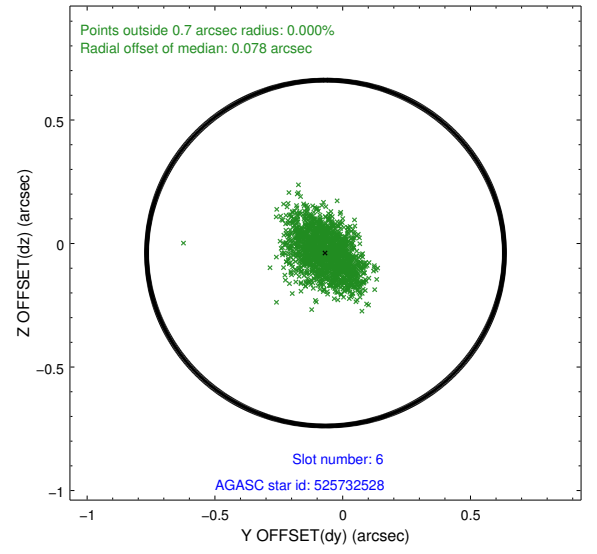
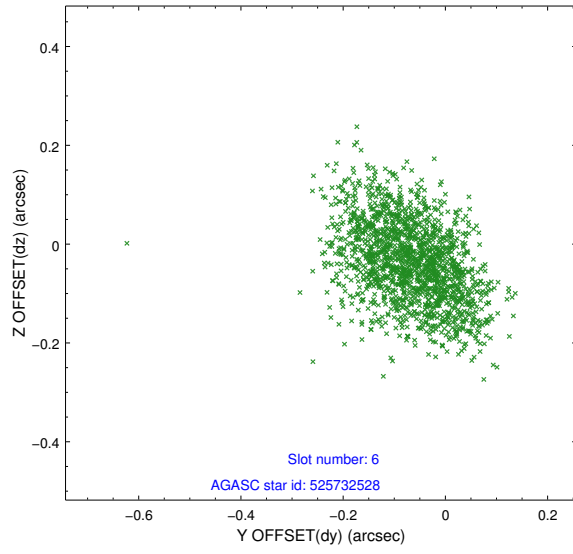
2.4.2 Slot 4



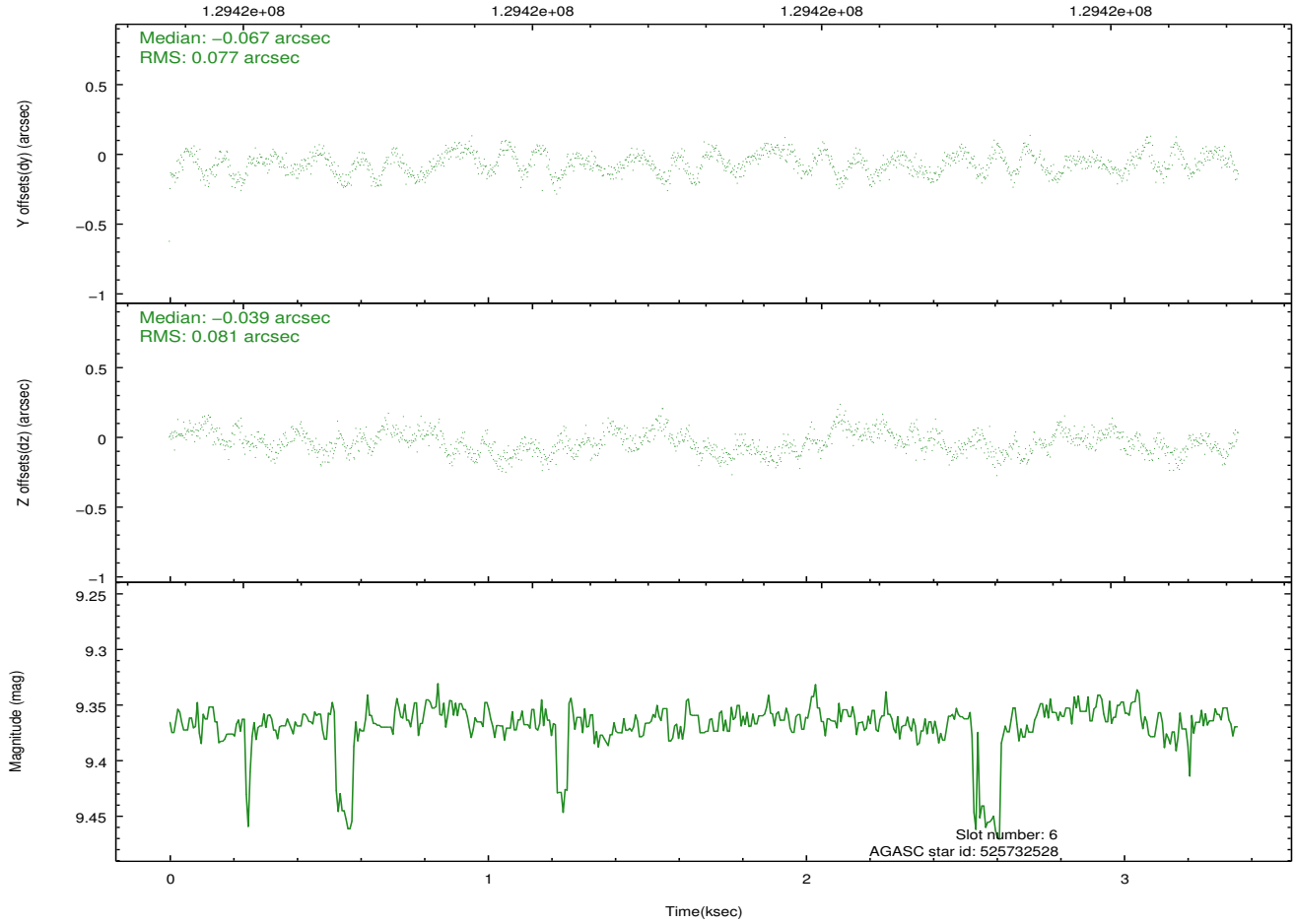
2.4.3 Slot 5



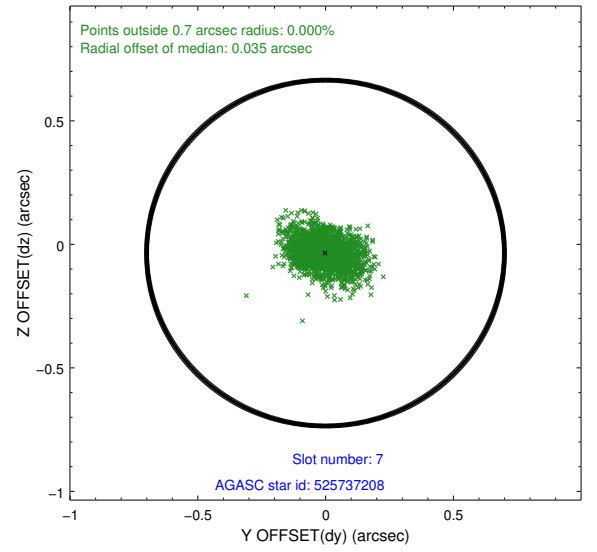
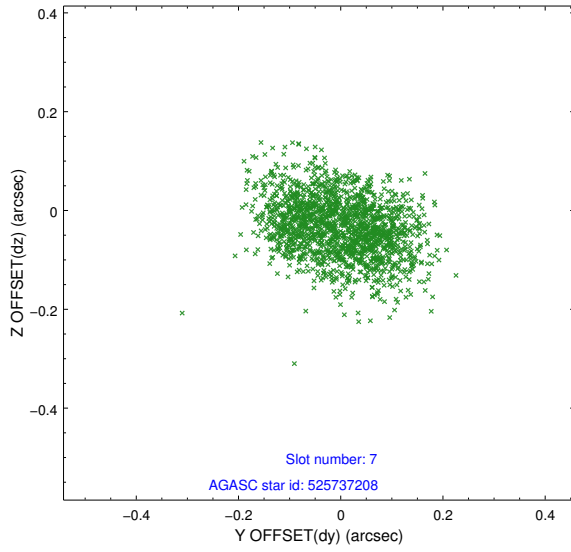
2.4.4 Slot 6



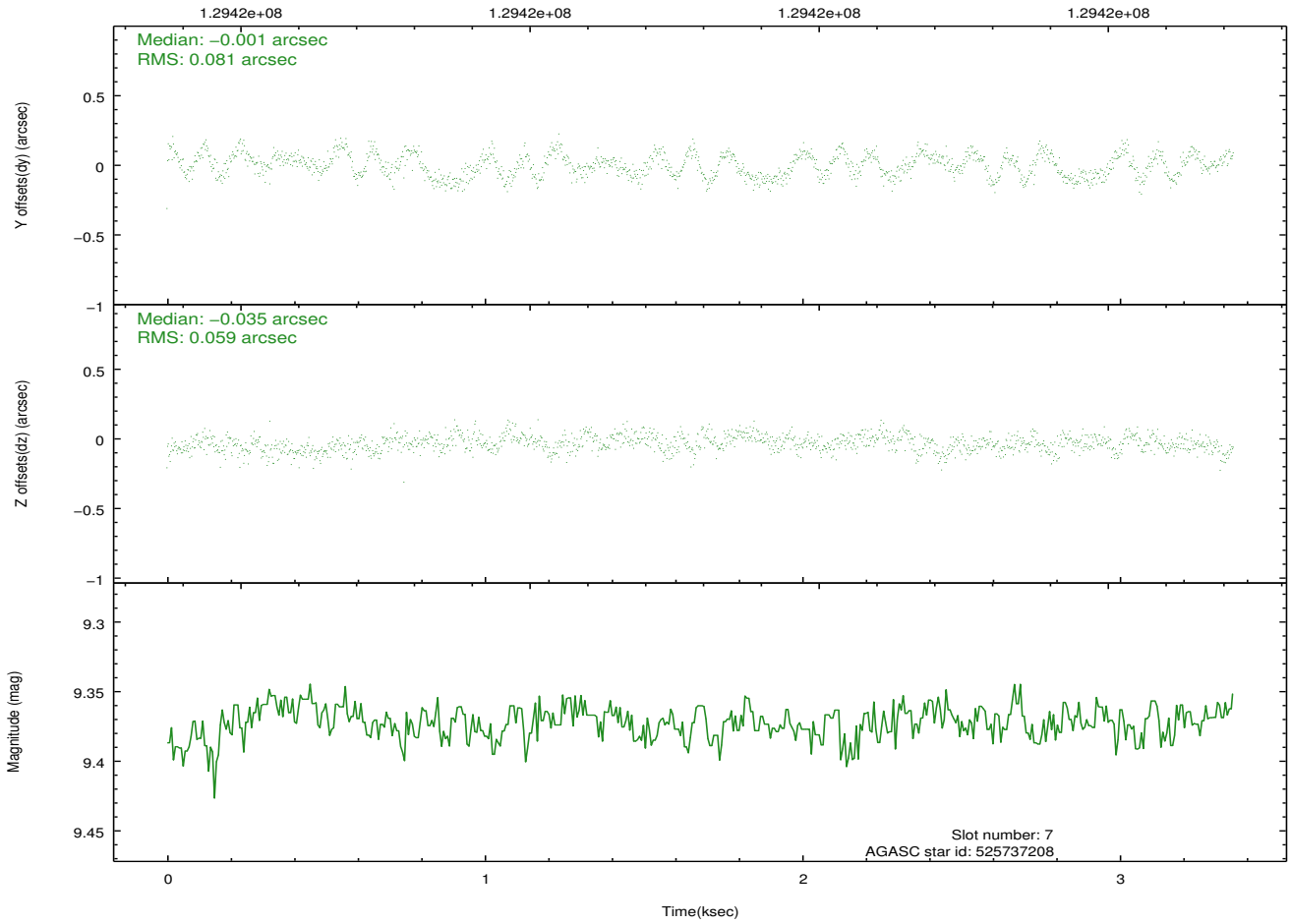
Time (s)



2.4.5 Slot 7

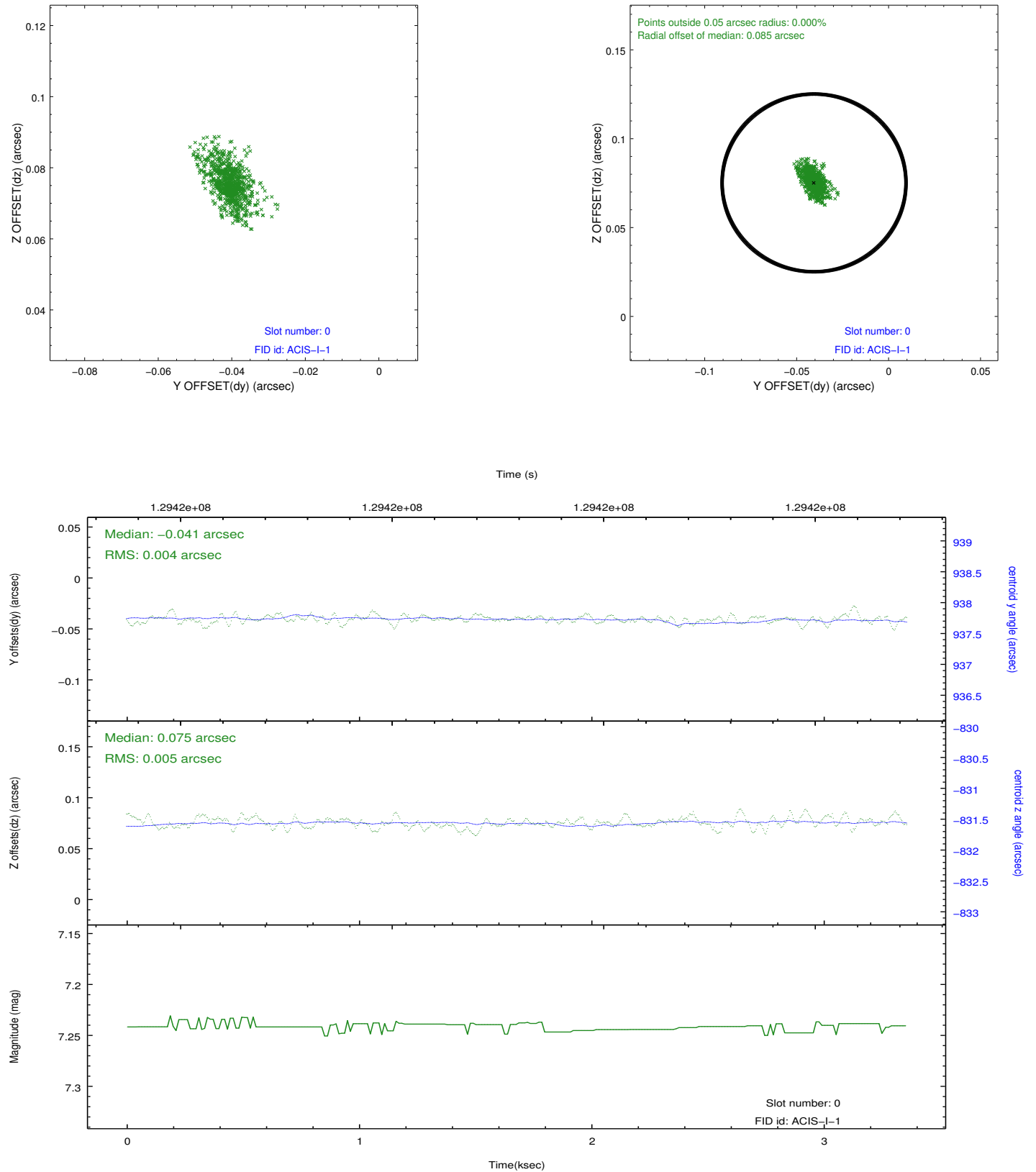


Time (s)

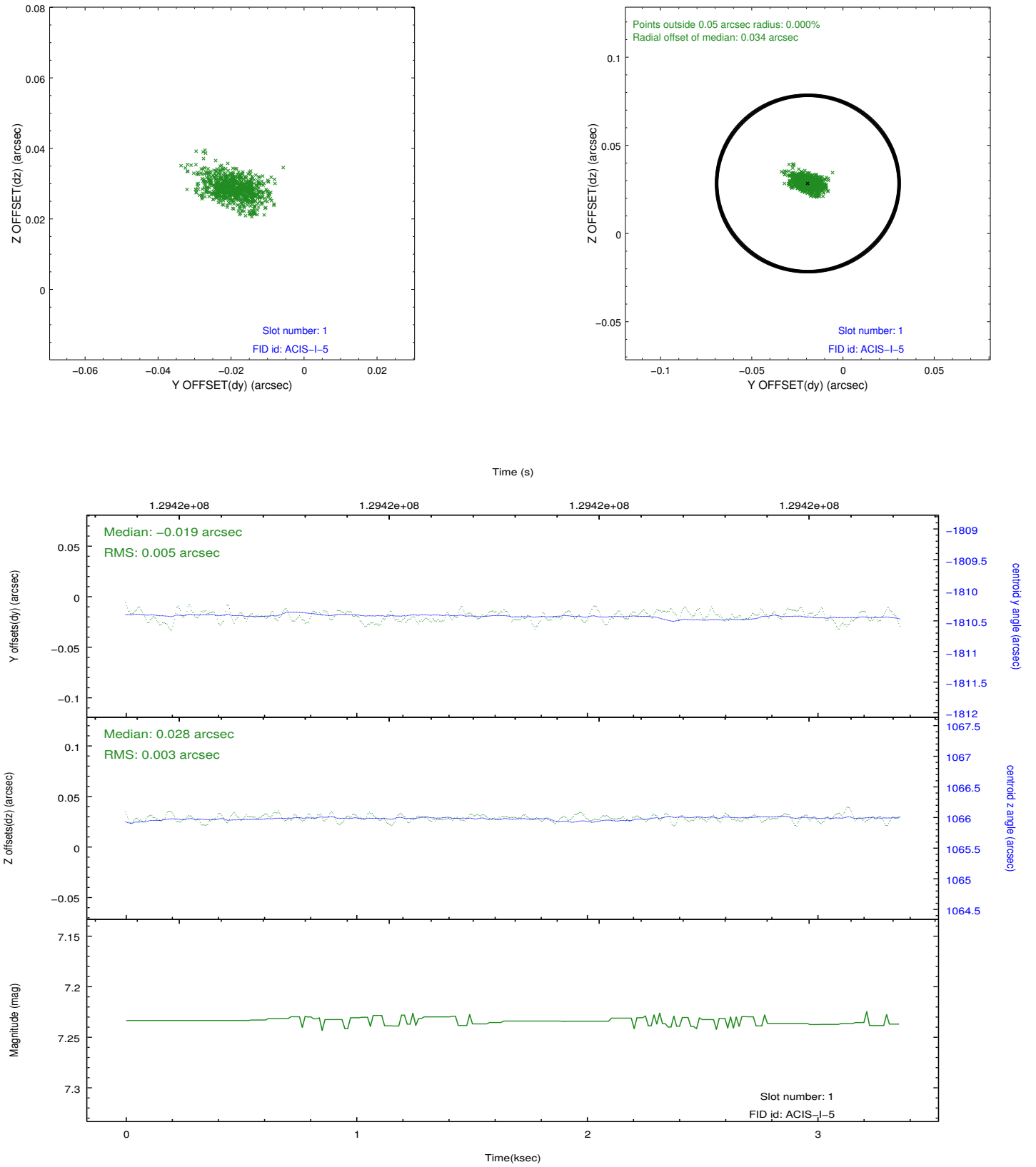


2.5 FID Slots

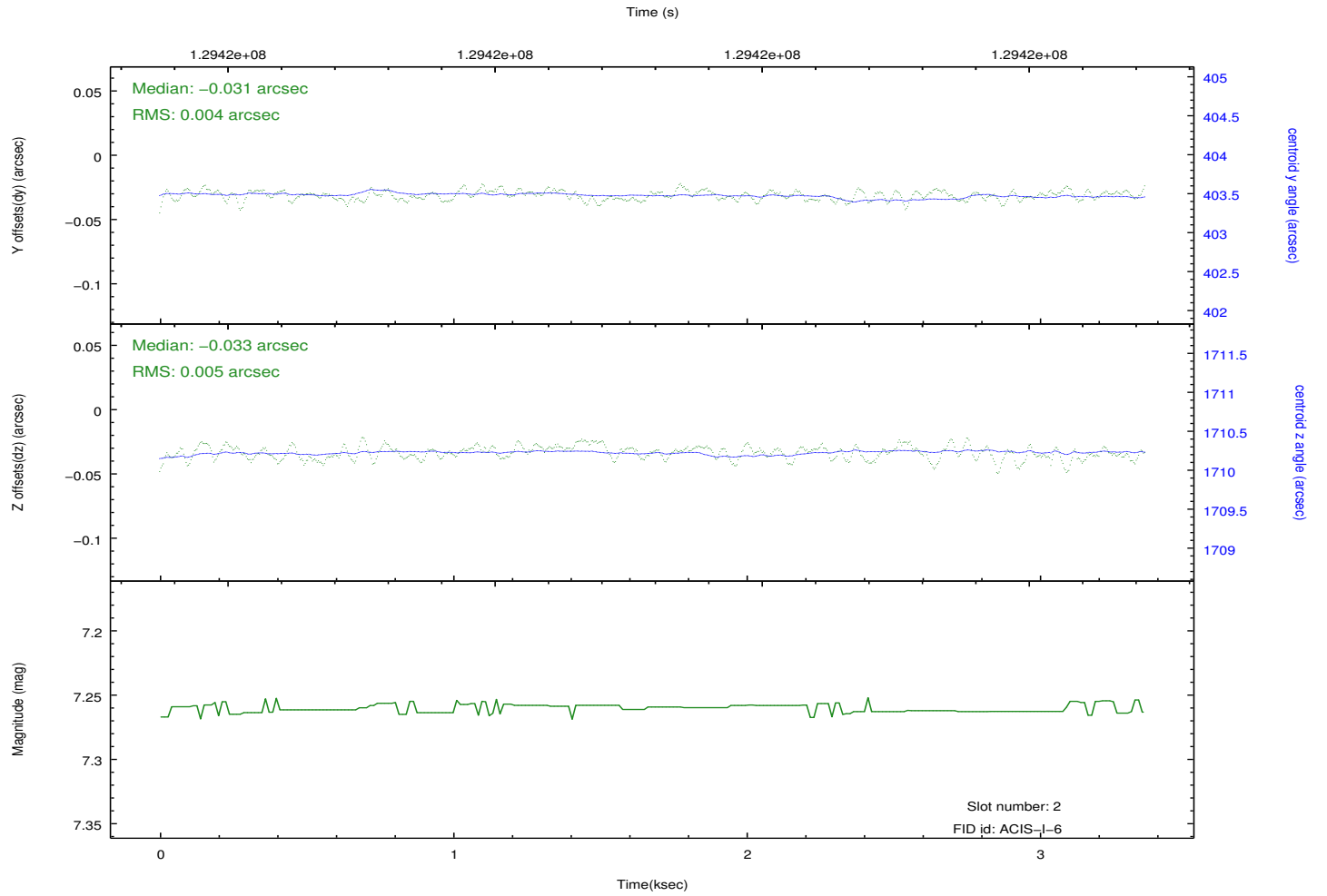
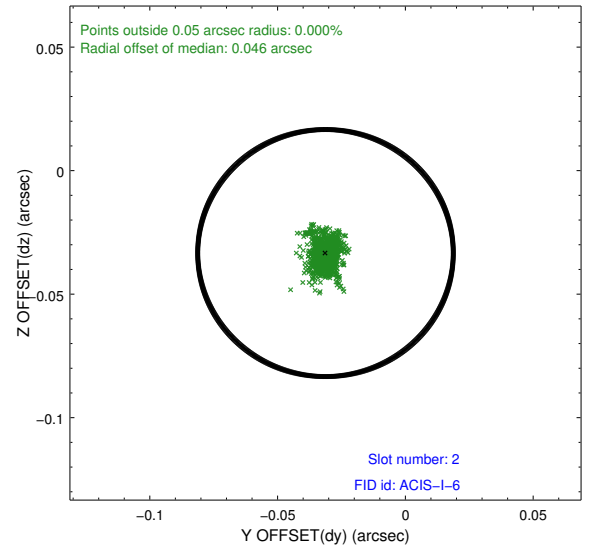
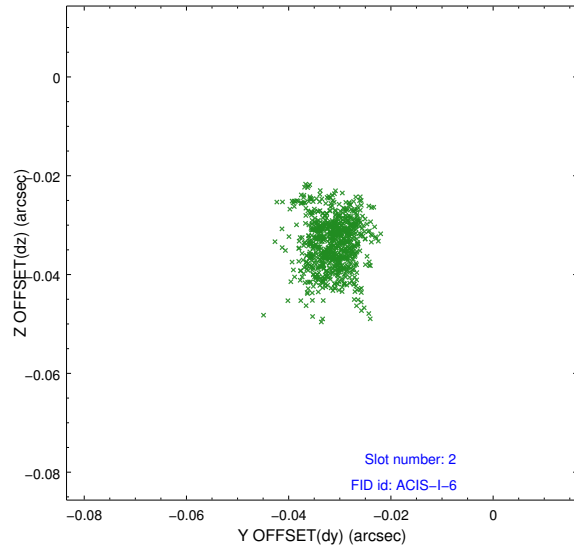
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.958

A.2 Comments

Charge time remains at previous value of 1.958 ksec. The high count rate resulted in telemetry saturation and a large number of dropped exposures. The ONTIME value reflects the lost exposure time. Window preference met.