

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22133 - L2 Version 1
Chandra X-Ray Center

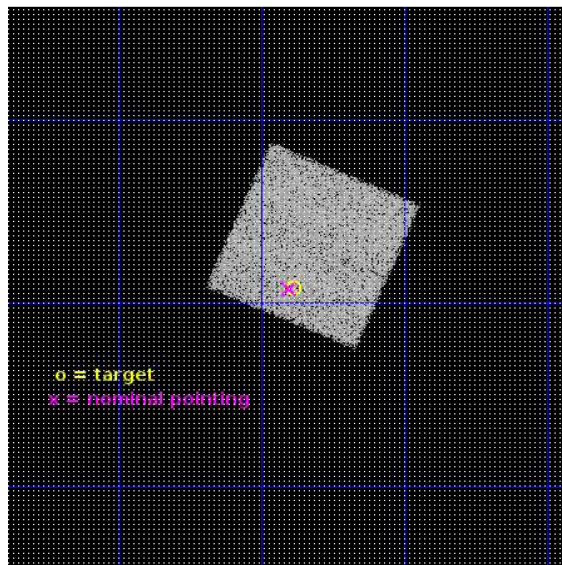
L2 Processing Date : Mar 1 2019

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1 Front

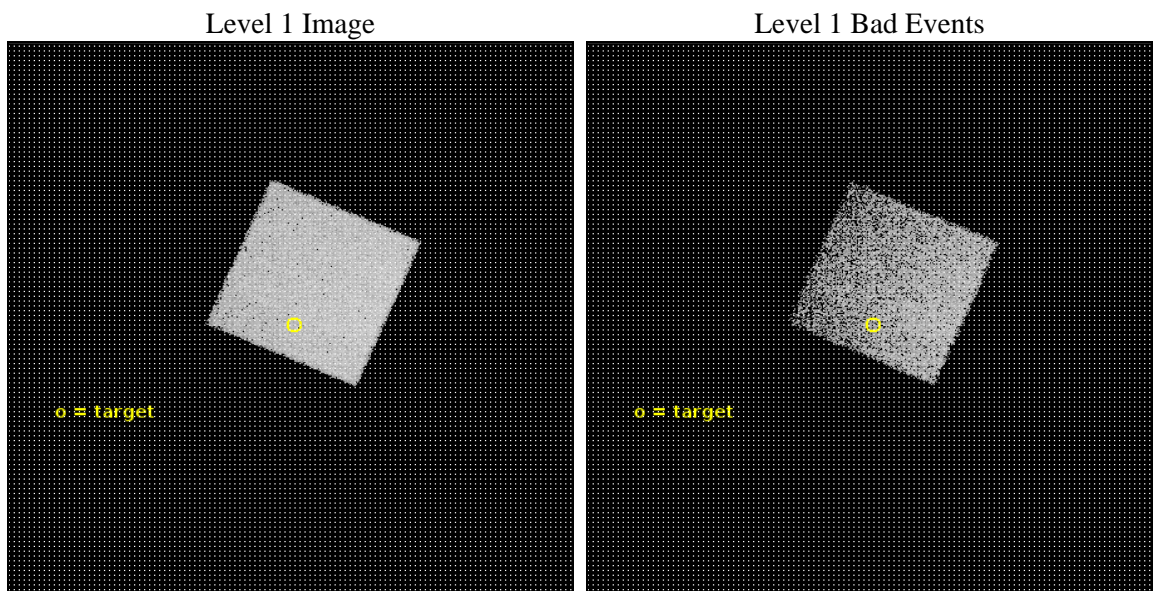
seq_num	703872	Sequence number
obs_id	22133	Observation id
title	Chandra-NuSTAR synergy in the NuSTAR serendipitous survey	Proposal
observer	Dr David Alexander	Principal investigator
object	IC0588_s1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.47142	Observer's specified target RA [deg]
dec_targ	3.013053	Observer's specified target Dec [deg]
ra_nom	150.47544425017	Nominal RA [deg]
dec_nom	3.0127164077066	Nominal Dec [deg]
roll_nom	293.40576513727	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10593.0	Sum of GTIs [s]
livetime	10450.043406203	Livetime [s]
ontime7	10593.0	Sum of GTIs [s]
l2events	43272	Number of level 2 events



2 OBI

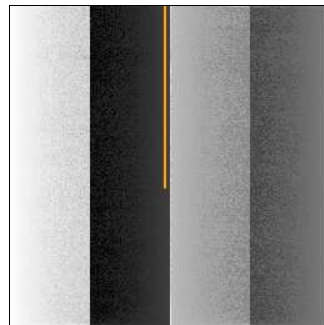
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10631.912000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	10593.0	Sum of GTIs [s]
caldsver	4.8.2	 	ontime7	10593.0	Sum of GTIs [s]
date	2019-03-01T22:27:08	Date and time of file creation	l1events	101593	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	101593
rejected events	57123
rejected %	56%

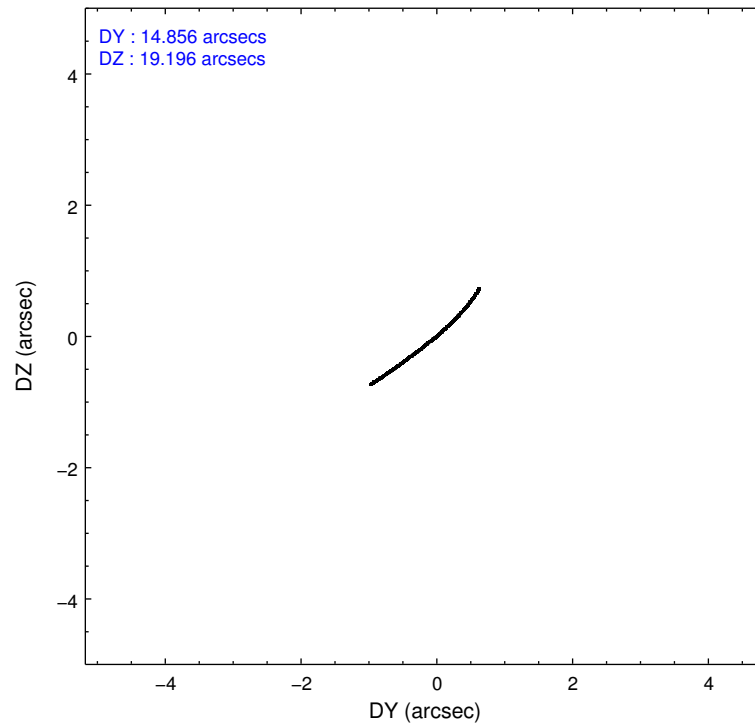
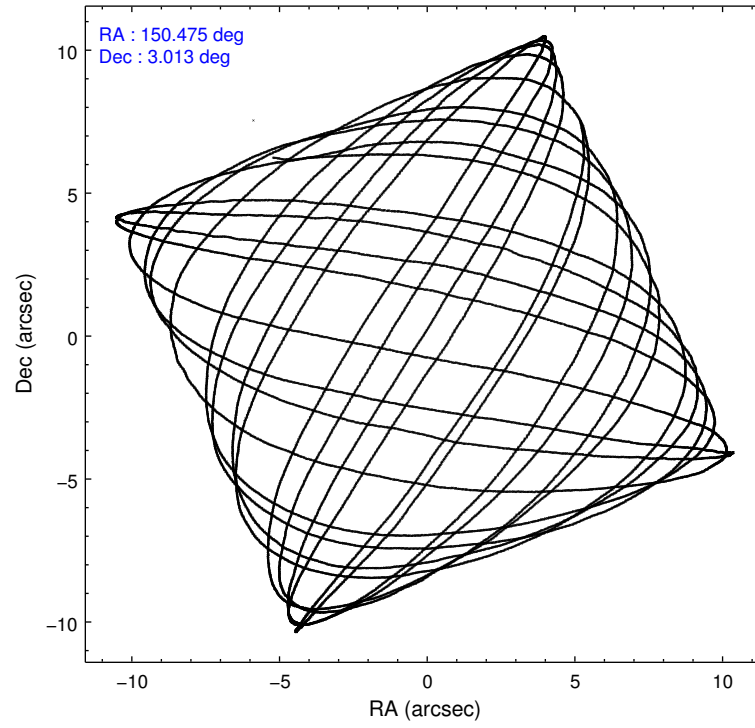
	ccd 7
grade 0 events	3665
	3%
grade 1 events	139
	0%
grade 2 events	9647
	9%
grade 3 events	3442
	3%
grade 4 events	3304
	3%
grade 5 events	10007
	9%
grade 6 events	24423
	24%
grade 7 events	46966
	46%

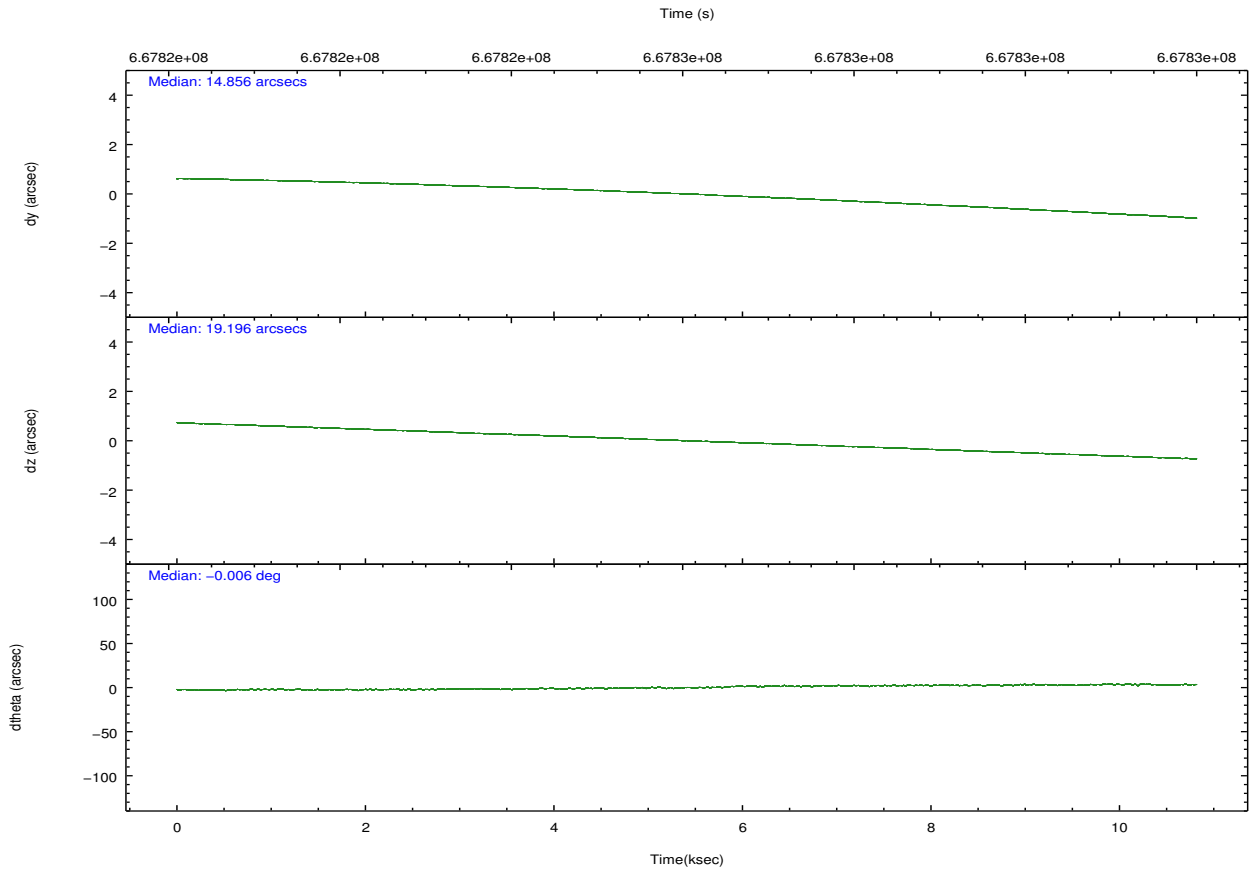
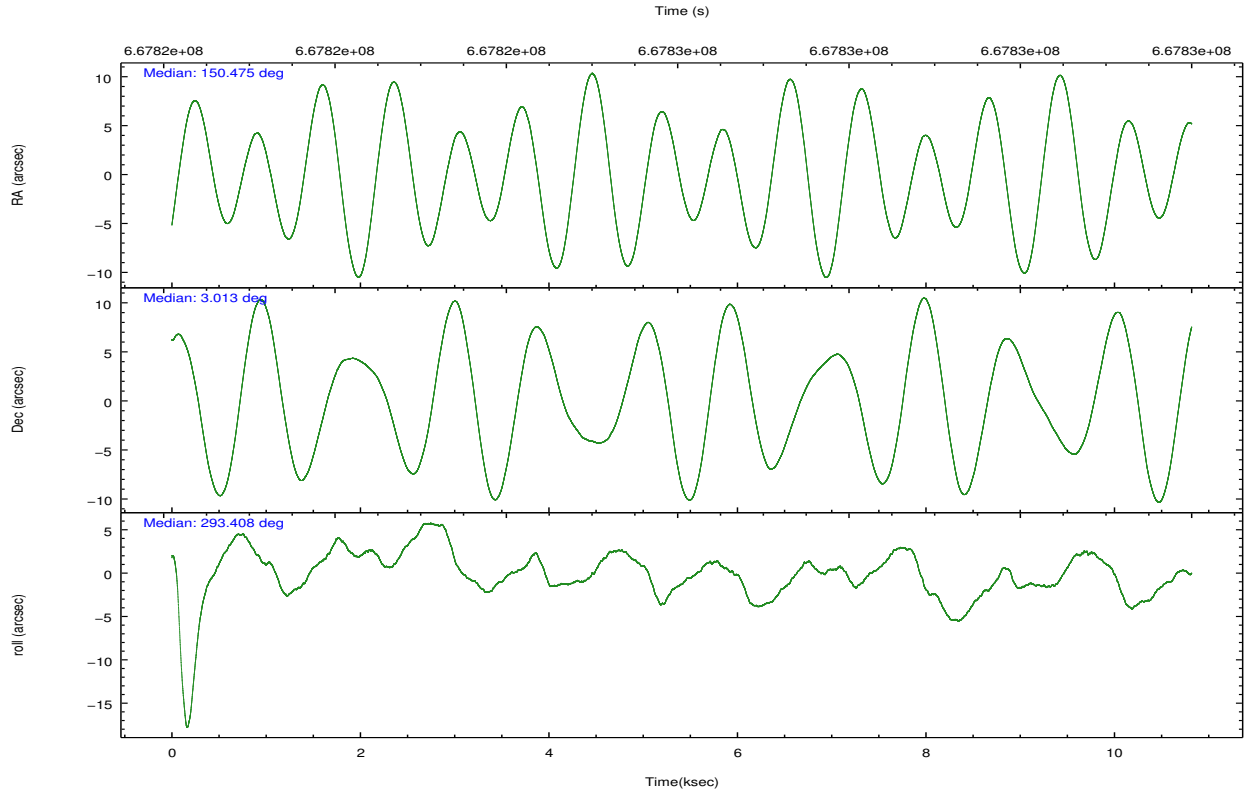
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	150.453123	150.4754442501661
[deg] Pointing Dec	3.028806	3.01271640770661
[deg] Pointing Roll	293.250311	293.405765137271
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	667820841.184000	667820464.8312401
Observation start date	2019-03-01T09:46:12	2019-03-01T09:41:04
[s] Observation end time (MET)	667831473.184000	667832027.34443
Observation end date	2019-03-01T12:43:24	2019-03-01T12:53:47
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

2.3 Aspect



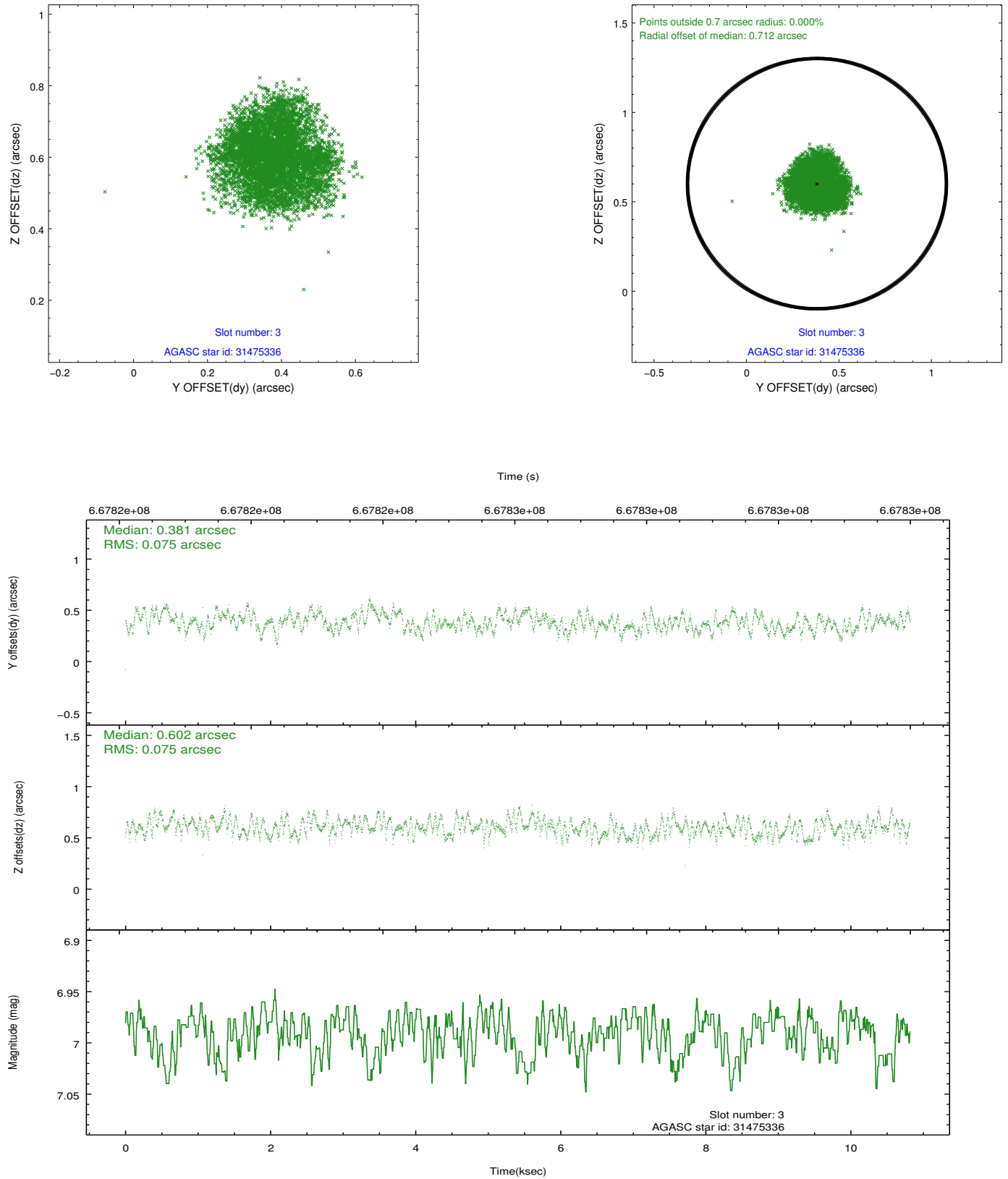


Slot Statistics

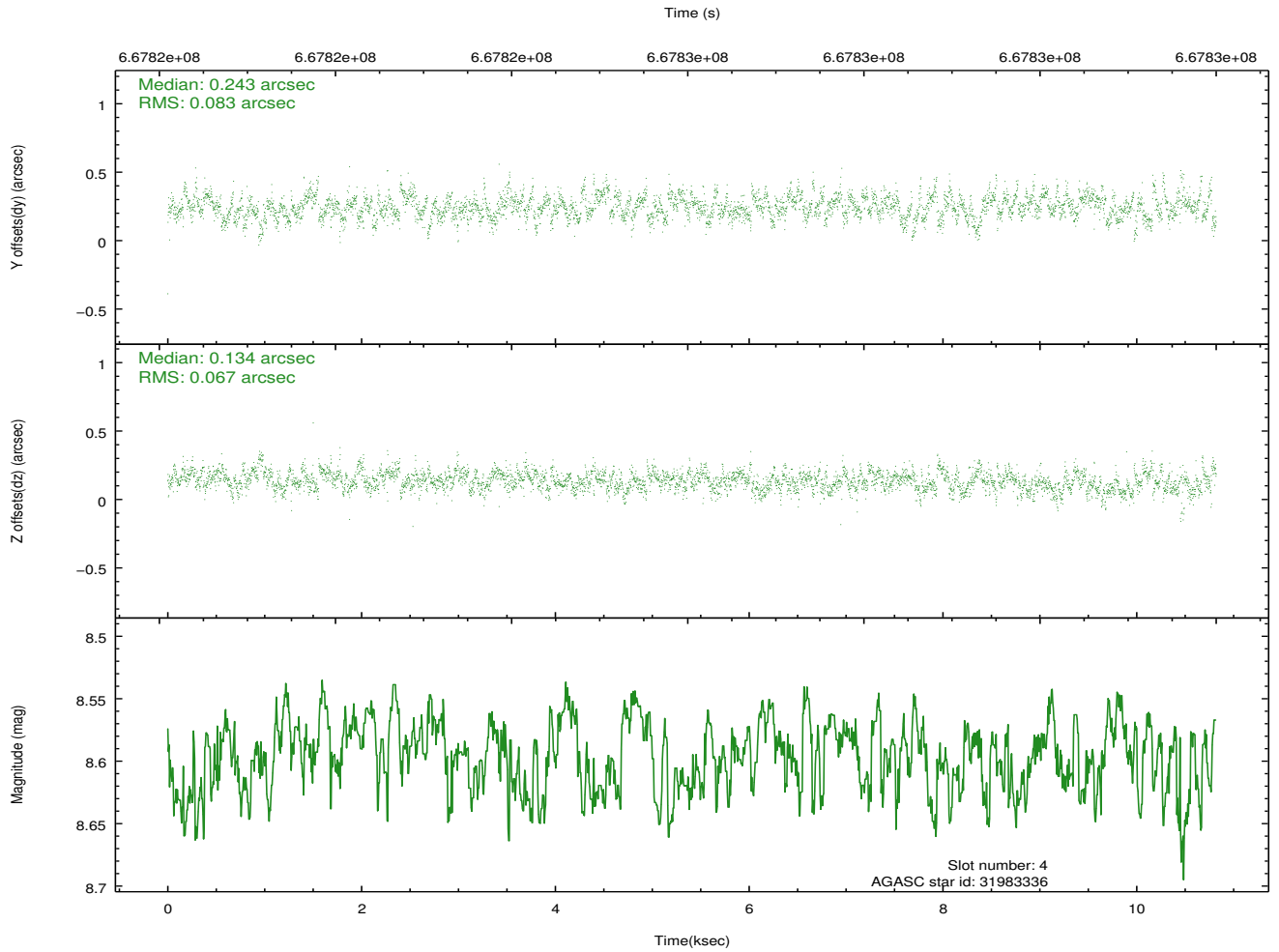
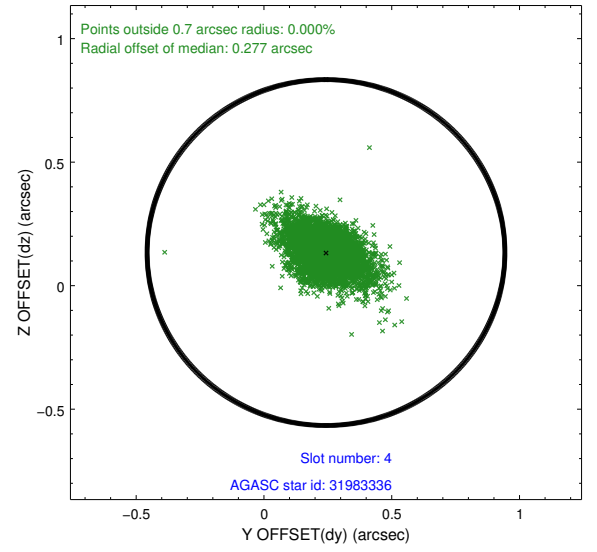
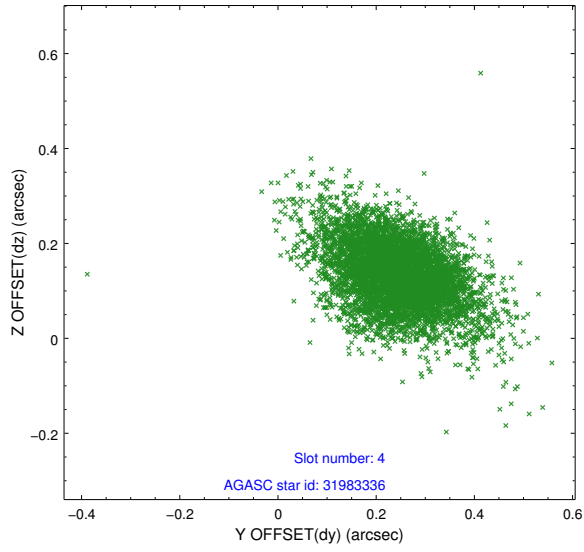
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.28	2639	1.000	-0.222	-0.199	0.018	0.025	0.000000	0.000000	45.30	-1869
1	FID		ACIS-S-4	7.15	2639	1.000	0.753	0.209	0.013	0.018	0.000000	0.000000	2146.35	167
2	FID		ACIS-S-5	7.12	2639	1.000	-0.566	-0.000	0.016	0.029	0.000000	0.000000	-1820.56	161
3	GUIDE	used	31475336	6.99	5278	1.000	0.381	0.602	0.119	0.170	149.929497	3.384805	-1921.36	-1223
4	GUIDE	used	31983336	8.59	5271	1.000	0.243	0.134	0.107	0.194	150.429924	2.291234	2406.07	-1125
5	GUIDE	used	32374896	9.21	5268	1.000	-0.072	-0.388	0.136	0.214	150.682269	2.512794	2032.85	23
6	GUIDE	used	32377944	8.94	5272	1.000	-0.016	0.108	0.158	0.243	150.678517	3.670134	-1800.89	1655
7	GUIDE	used	32388536	6.68	5277	1.000	-0.536	-0.458	0.107	0.174	151.035133	3.201055	255.85	2164

2.4 Star Slots

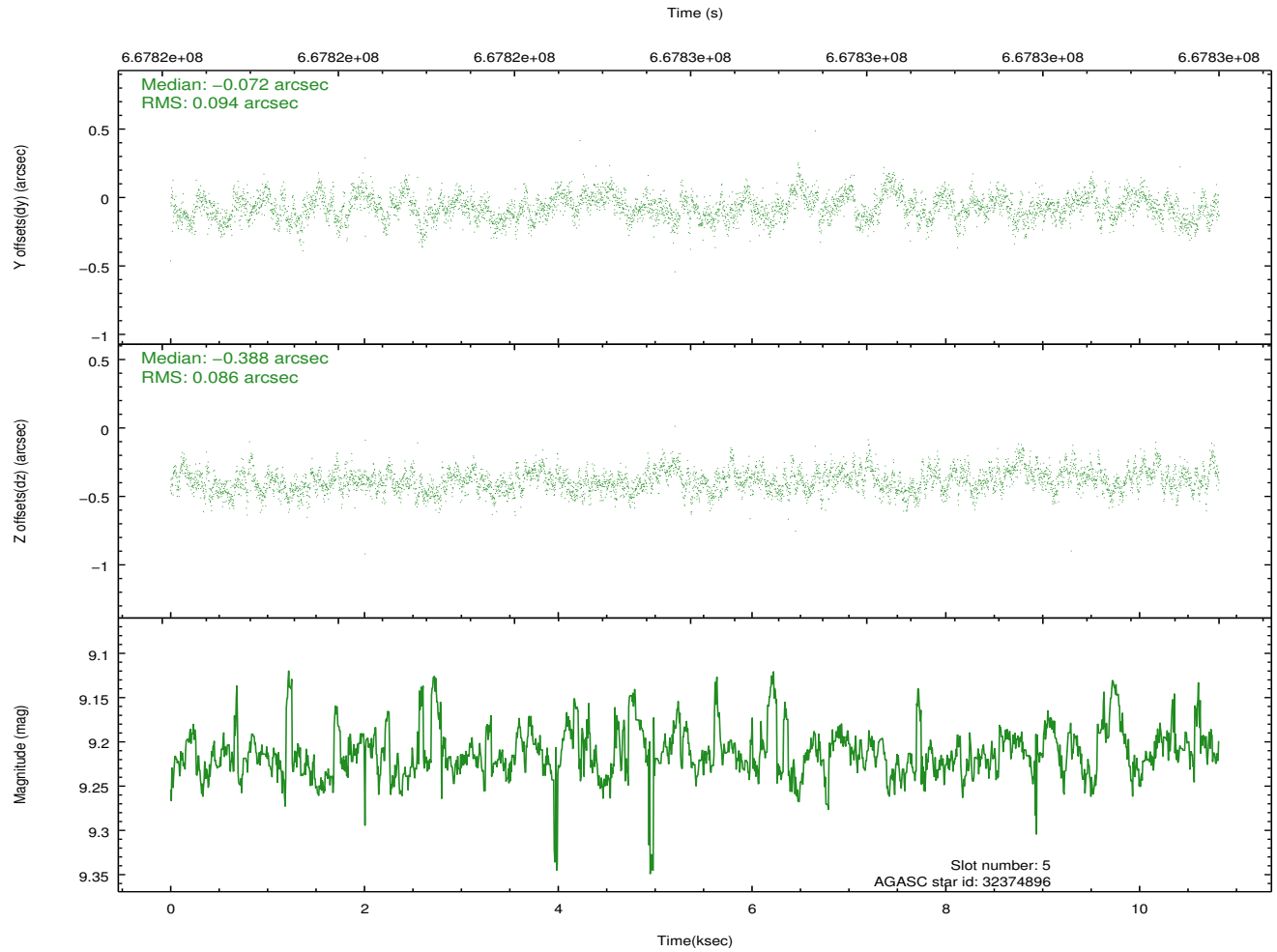
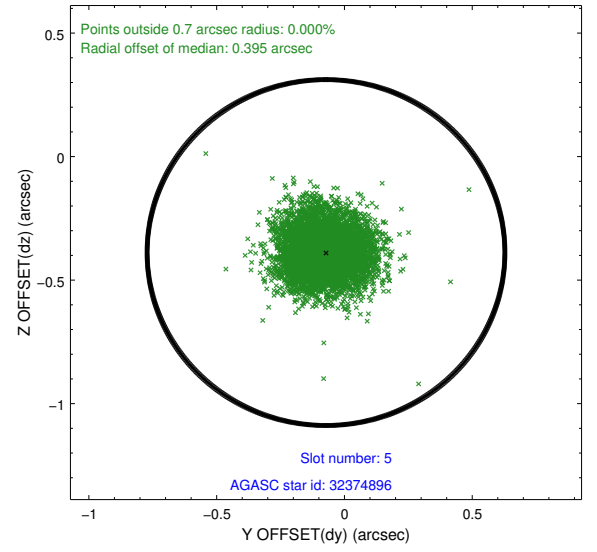
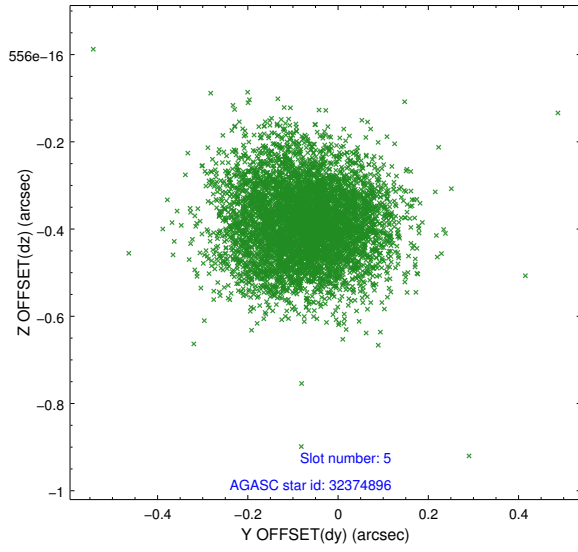
2.4.1 Slot 3



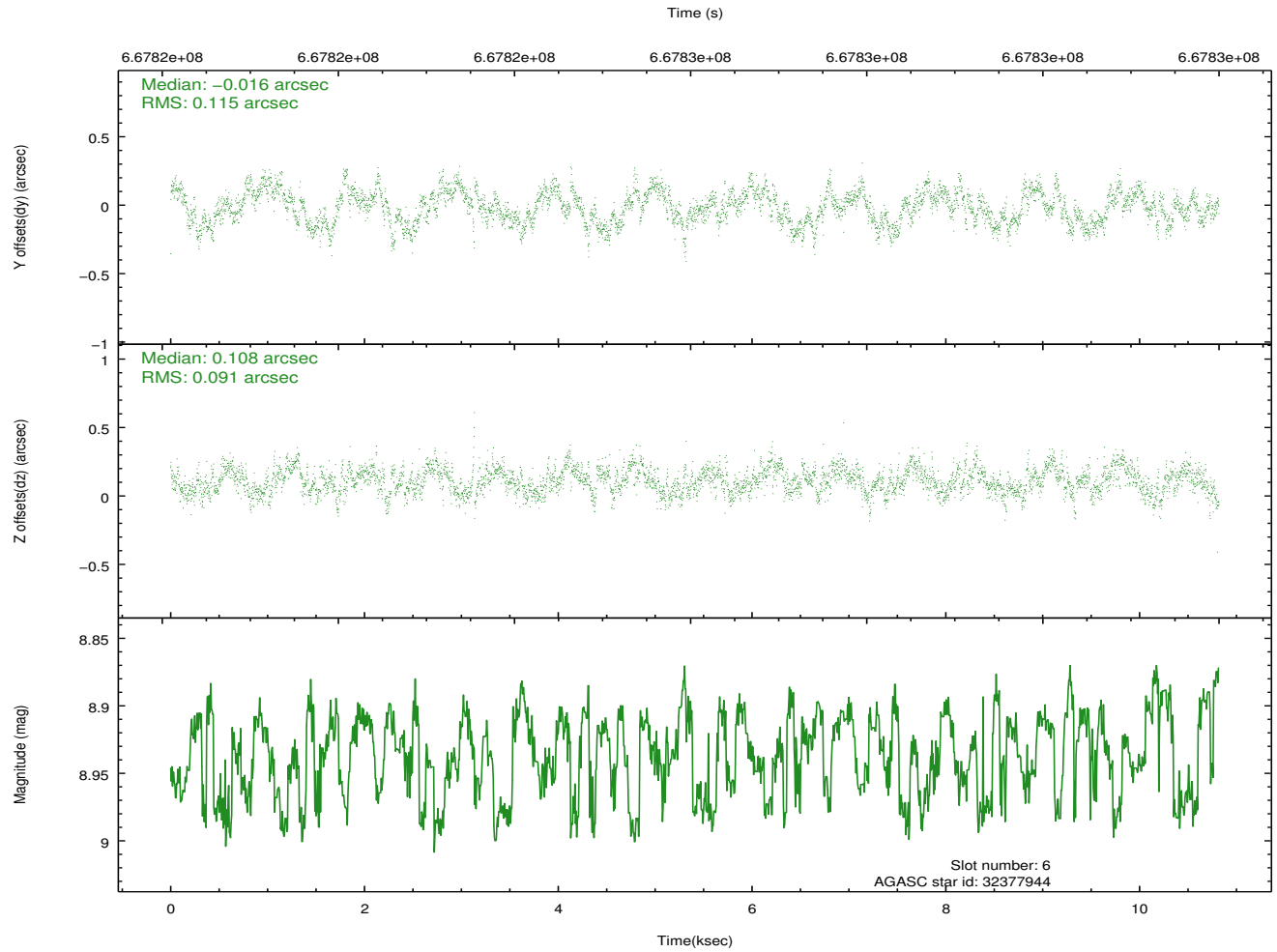
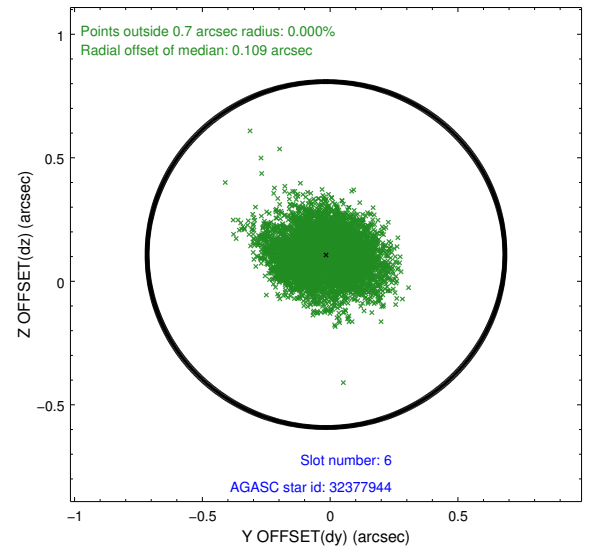
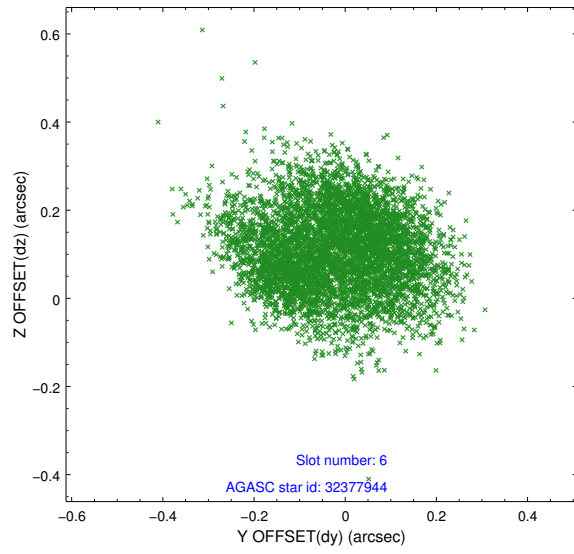
2.4.2 Slot 4



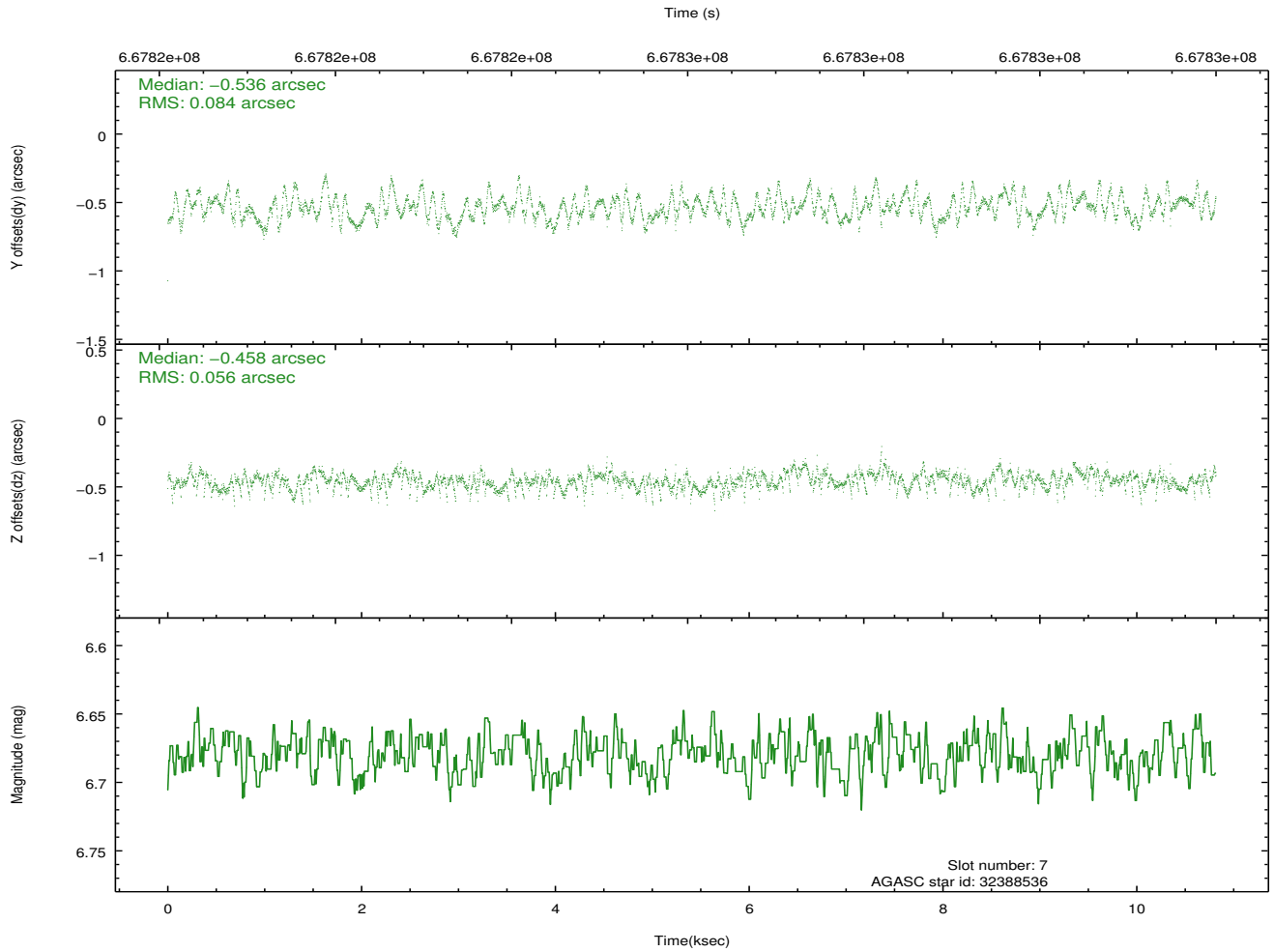
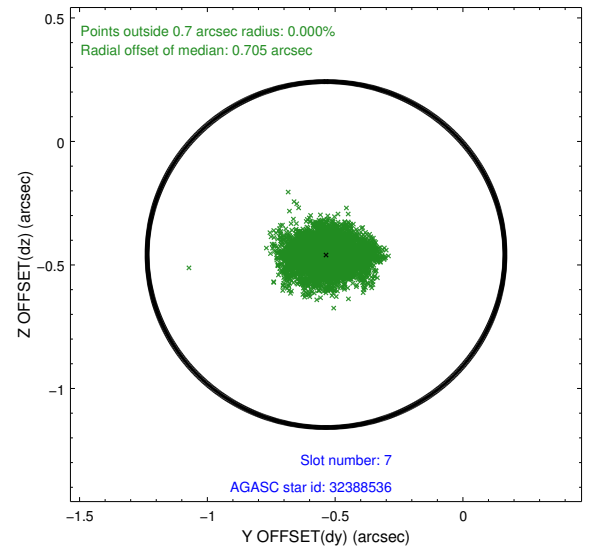
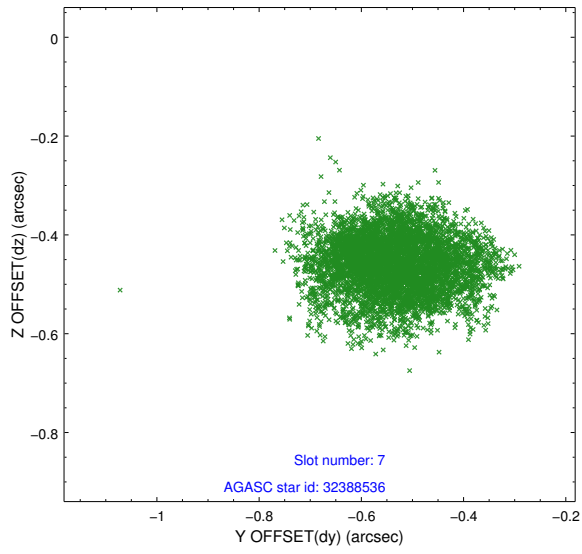
2.4.3 Slot 5



2.4.4 Slot 6

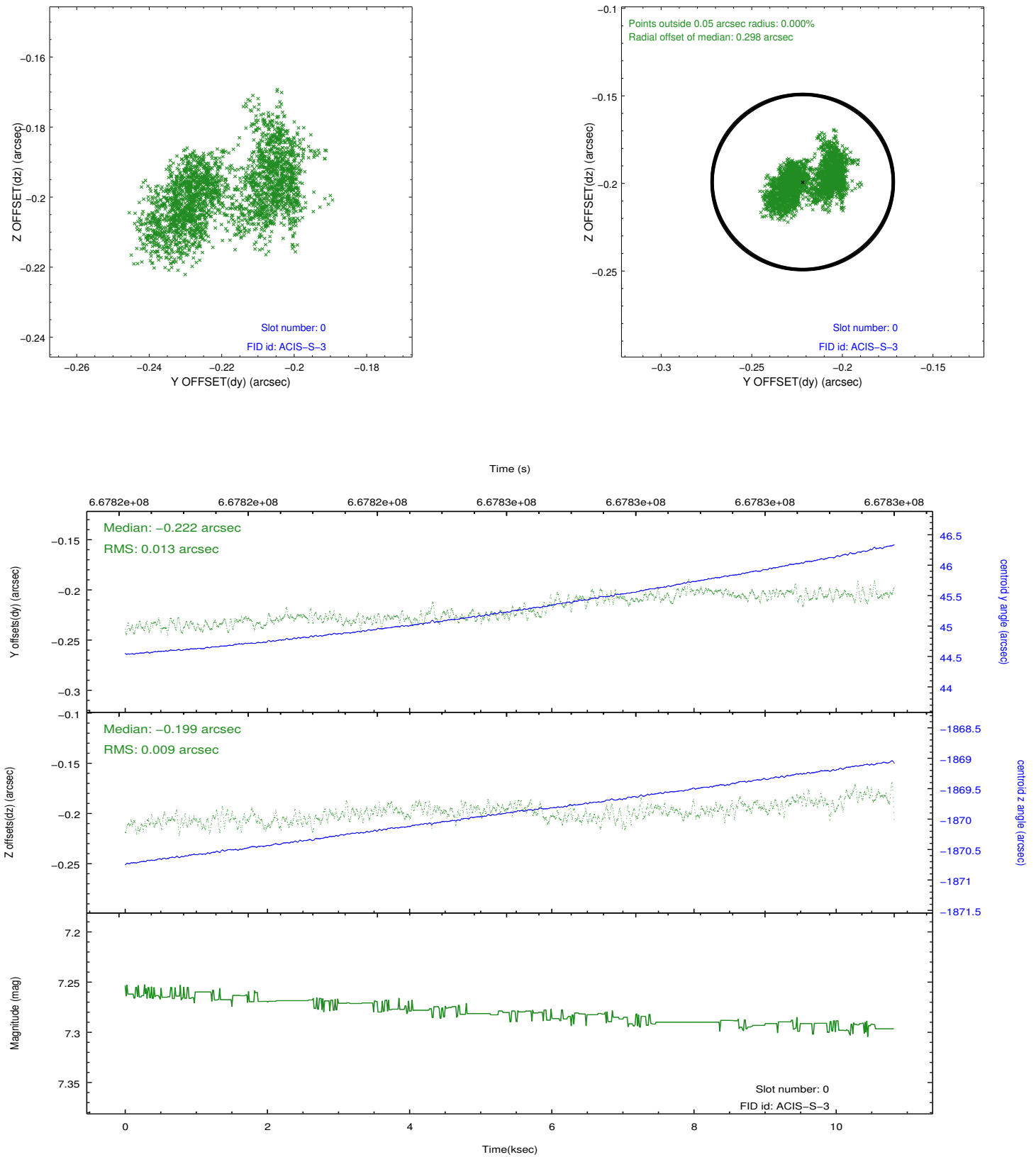


2.4.5 Slot 7

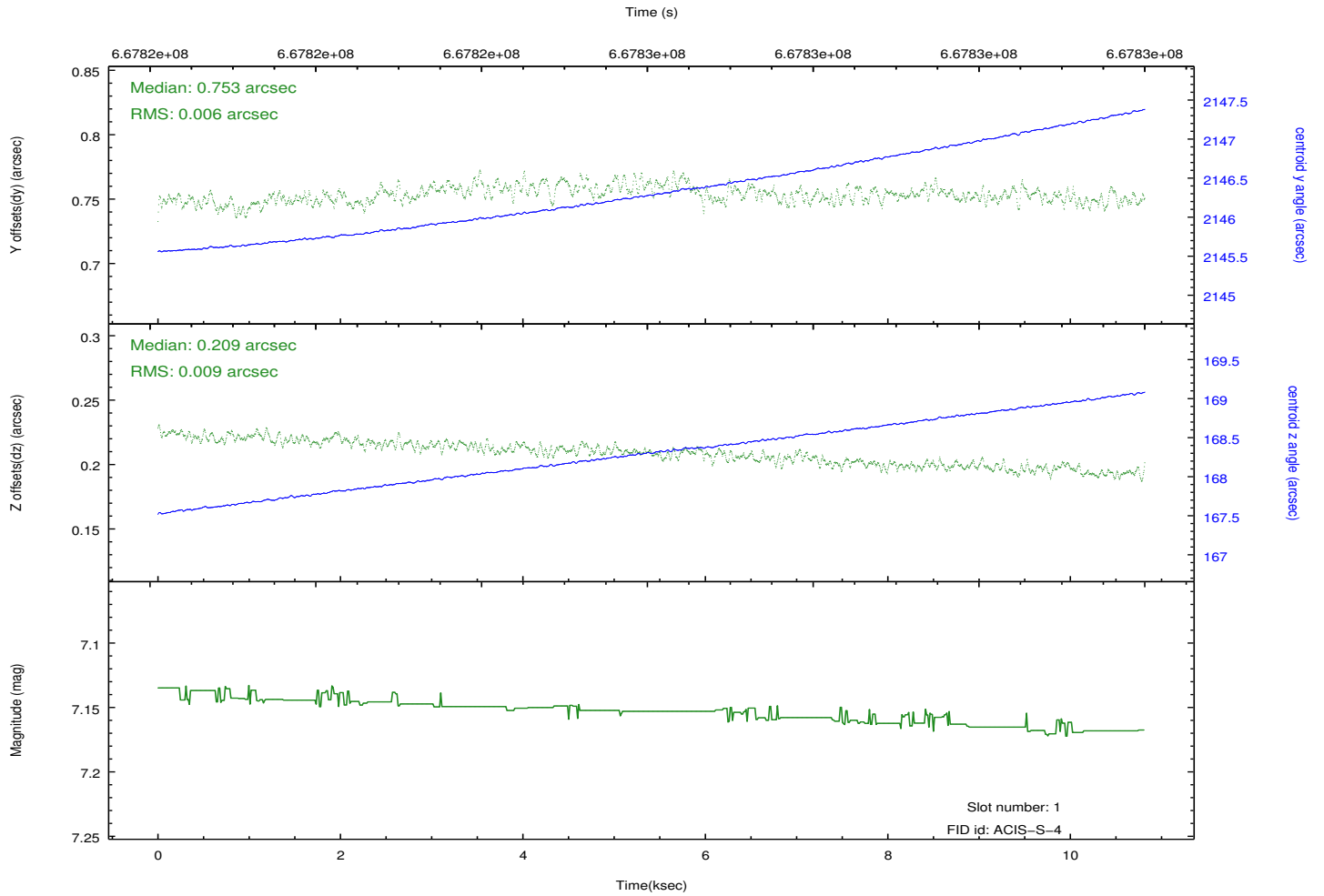
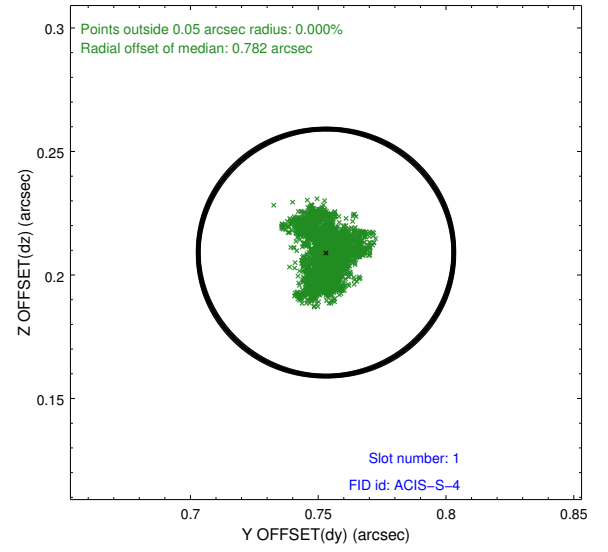
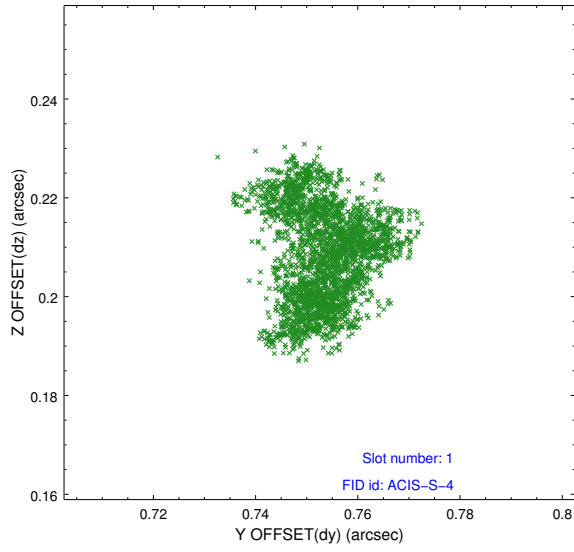


2.5 FID Slots

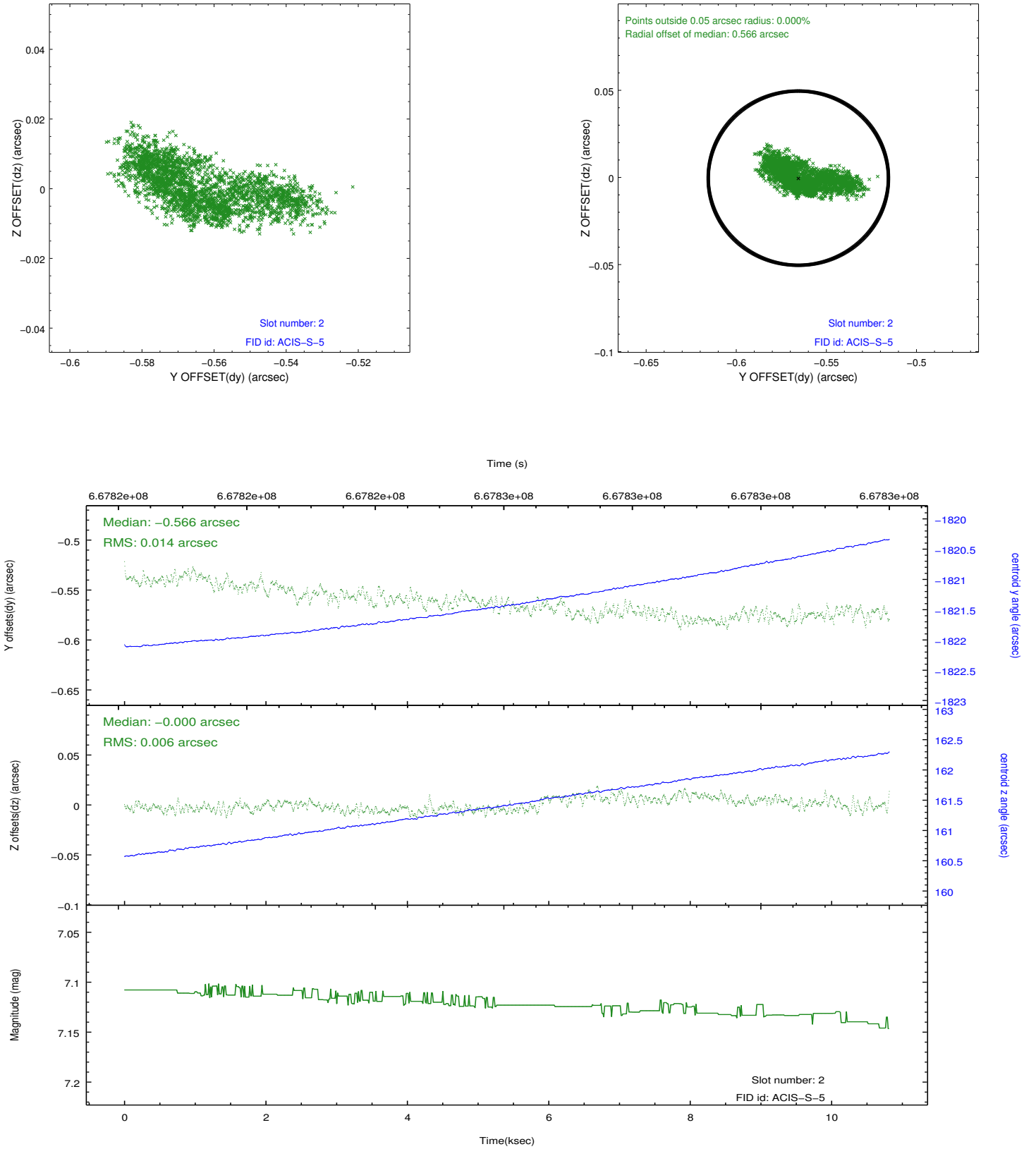
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.03.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.593

A.2 Comments