

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19726 - L2 Version 1
Chandra X-Ray Center

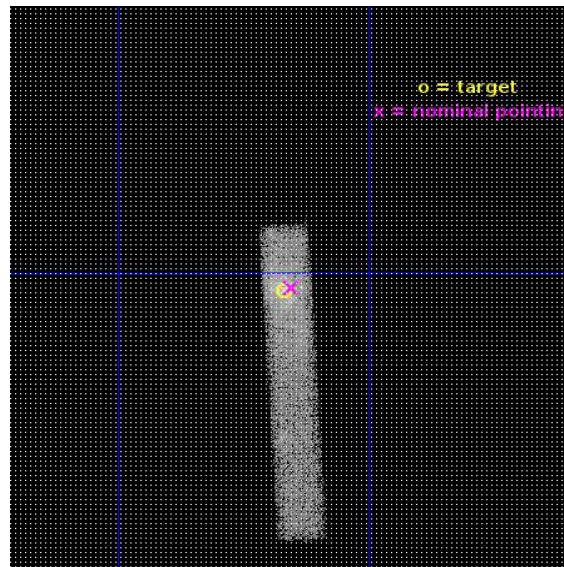
L2 Processing Date : Apr 6 2017

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1 Front

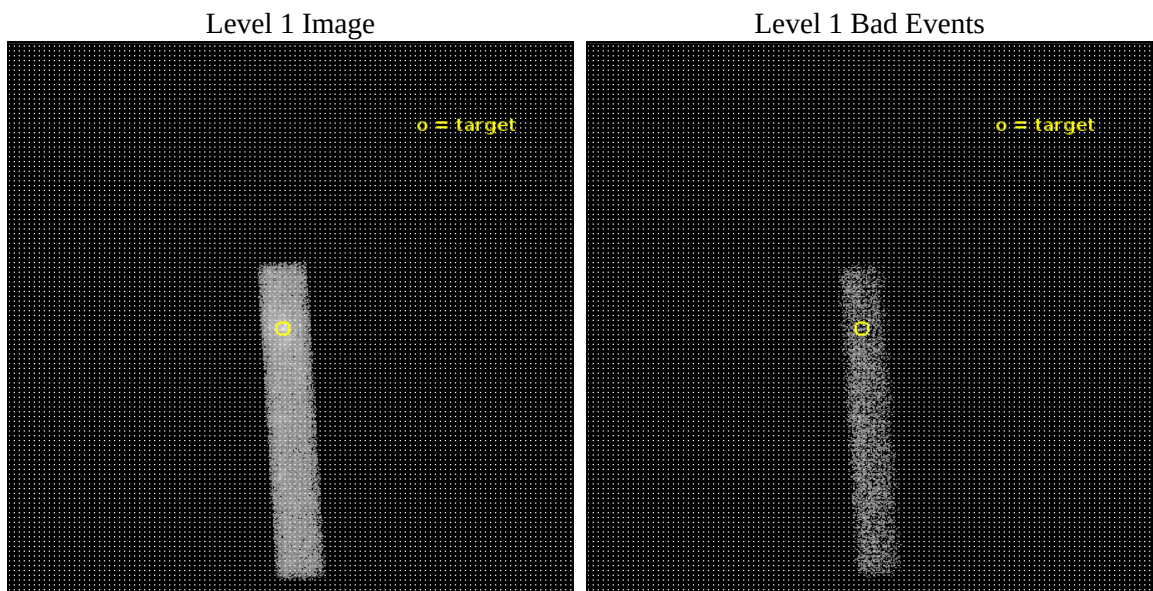
seq_num	601403	Sequence number
obs_id	19726	Observation id
title	How Does the Periastron Passage of Star S2 (S0-2) Affect the Sgr A* Accretion Flow?	Proposal title
observer	Gordon Garmire	Principal investigator
object	SgrA*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007833	Observer's specified target Dec [deg]
ra_nom	266.4133684529	Nominal RA [deg]
dec_nom	-29.00658400424	Nominal Dec [deg]
roll_nom	86.692749530958	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31068.737751365	Sum of GTIs [s]
livetime	28177.705198045	Livetime [s]
ontime7	31068.737751365	Sum of GTIs [s]
l2events	31615	Number of level 2 events



2 OBI

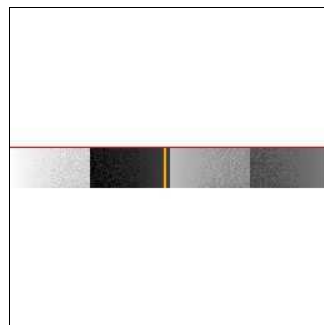
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	31000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	31068.737751365	Sum of GTIs [s]
caldsver	4.7.3	 	ontime7	31068.737751365	Sum of GTIs [s]
date	2017-04-07T00:09:07	Date and time of file creation	l1events	50940	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

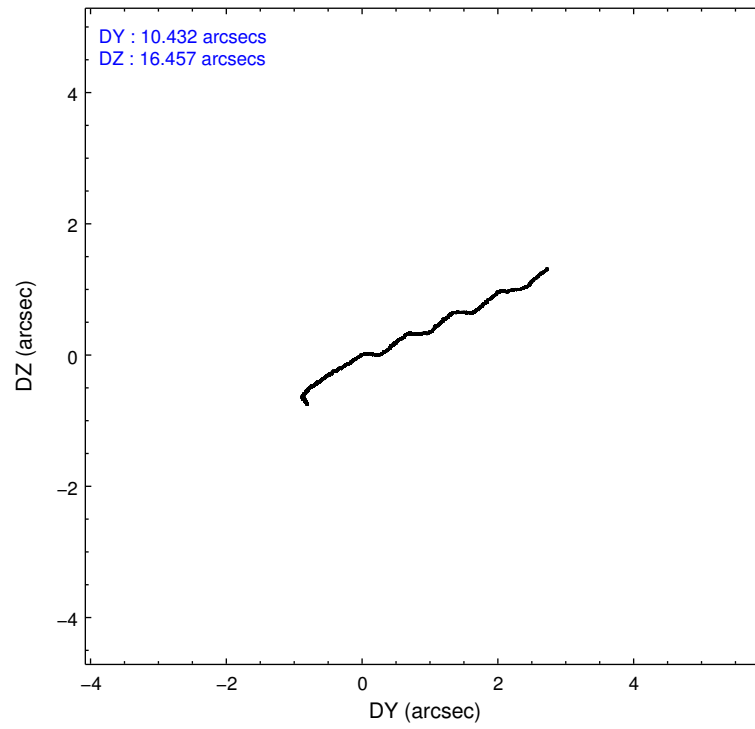
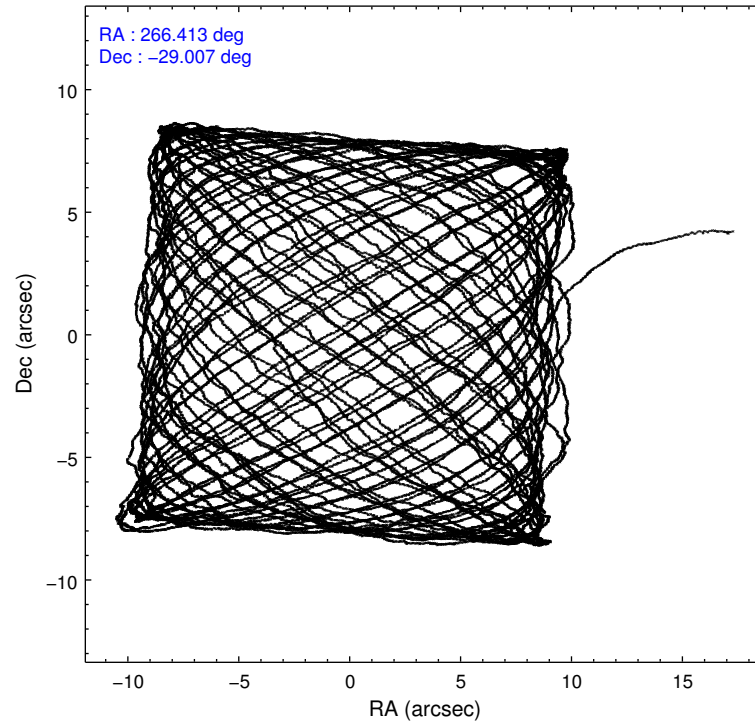
	ccd 7
level 1 events	50940
rejected events	18433
rejected %	36%

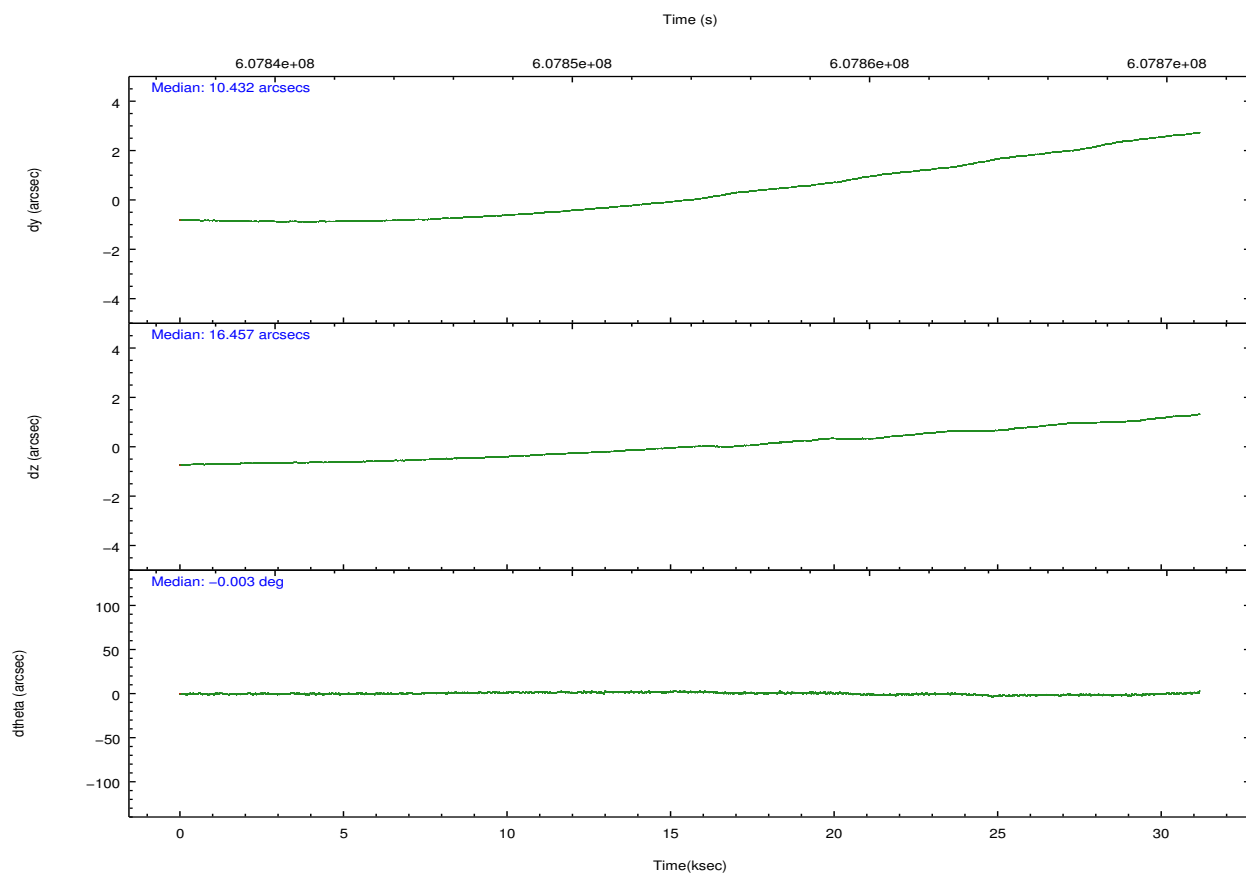
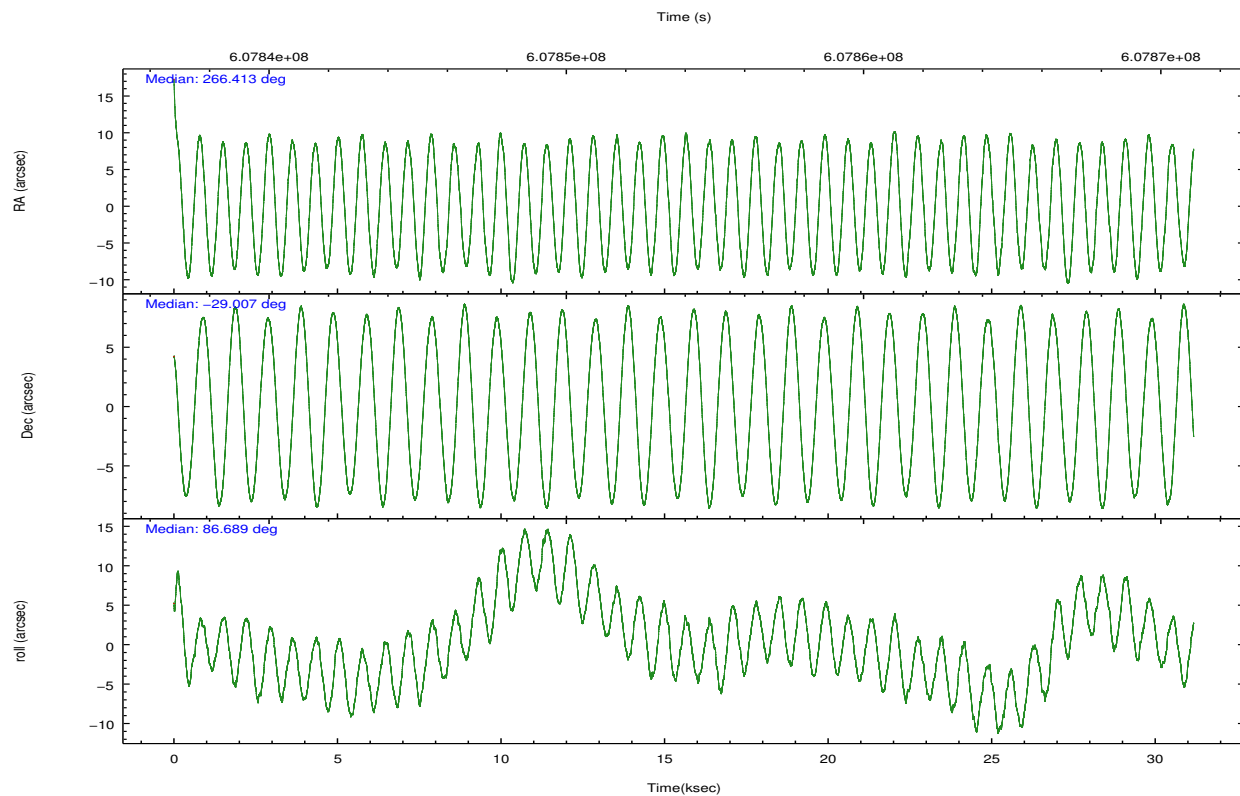
	ccd 7
grade 0 events	4635
	9%
grade 1 events	71
	0%
grade 2 events	7071
	13%
grade 3 events	3767
	7%
grade 4 events	3754
	7%
grade 5 events	3683
	7%
grade 6 events	13280
	26%
grade 7 events	14679
	28%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	266.427832	266.4133684528973	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.030942	-29.00658400424032	Subarray start row	449	449
[deg] Pointing Roll	86.543136	86.6927495309579	Subarray row count	128	128
[s] Window start time (MET)	607838469.184000	607838469.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	607874469.184000	607874469.184000	[s] Primary exposure time	0.000000	0.4
[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)	607838527.184000	607837633.92743			
Observation start date	2017-04-06T04:00:58	2017-04-06T03:47:13			
[s] Observation end time (MET)	607869527.184000	607870295.55433			
Observation end date	2017-04-06T12:37:38	2017-04-06T12:51:35			
Read mode	TIMED	TIMED			

2.3 Aspect



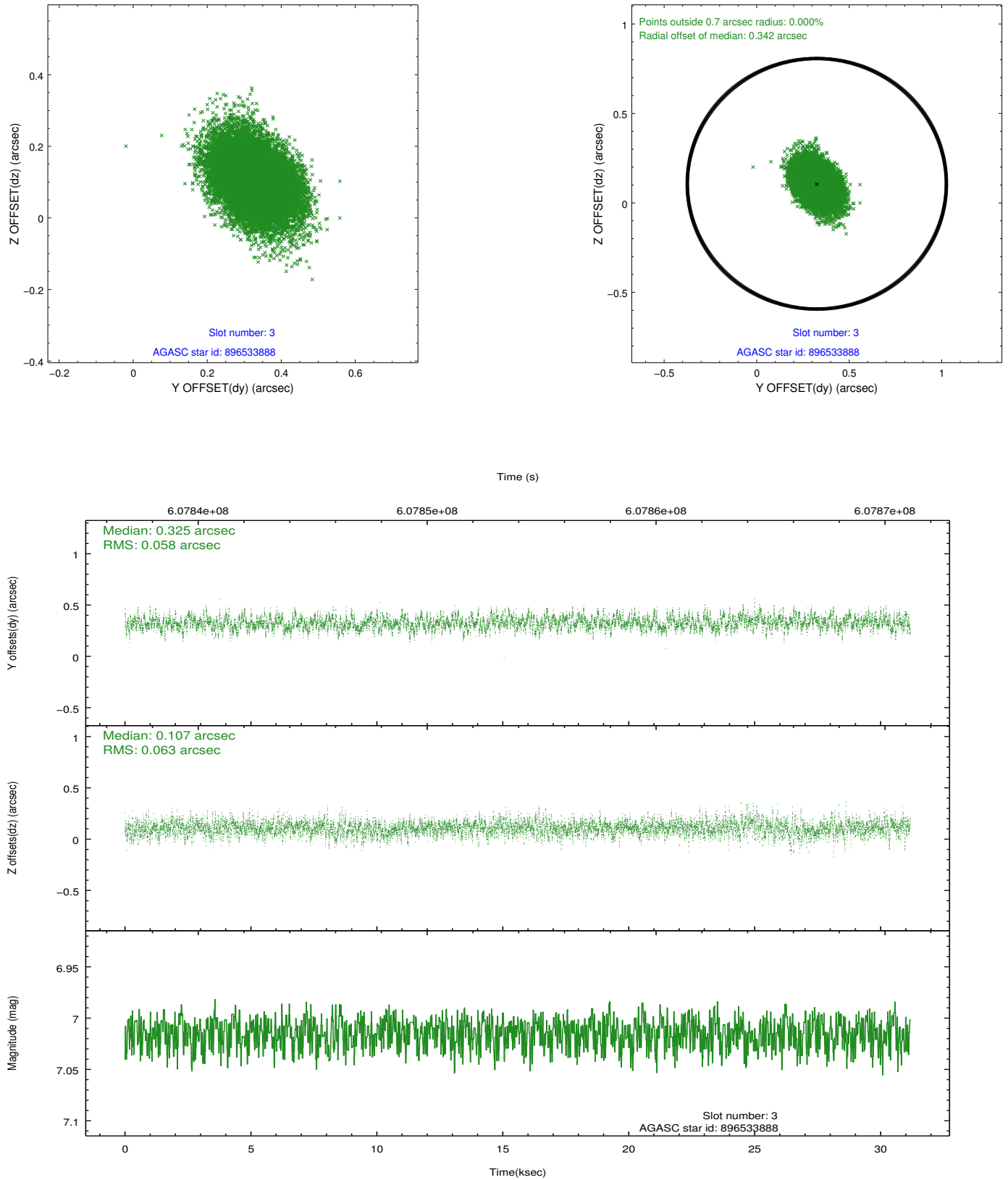


Slot Statistics

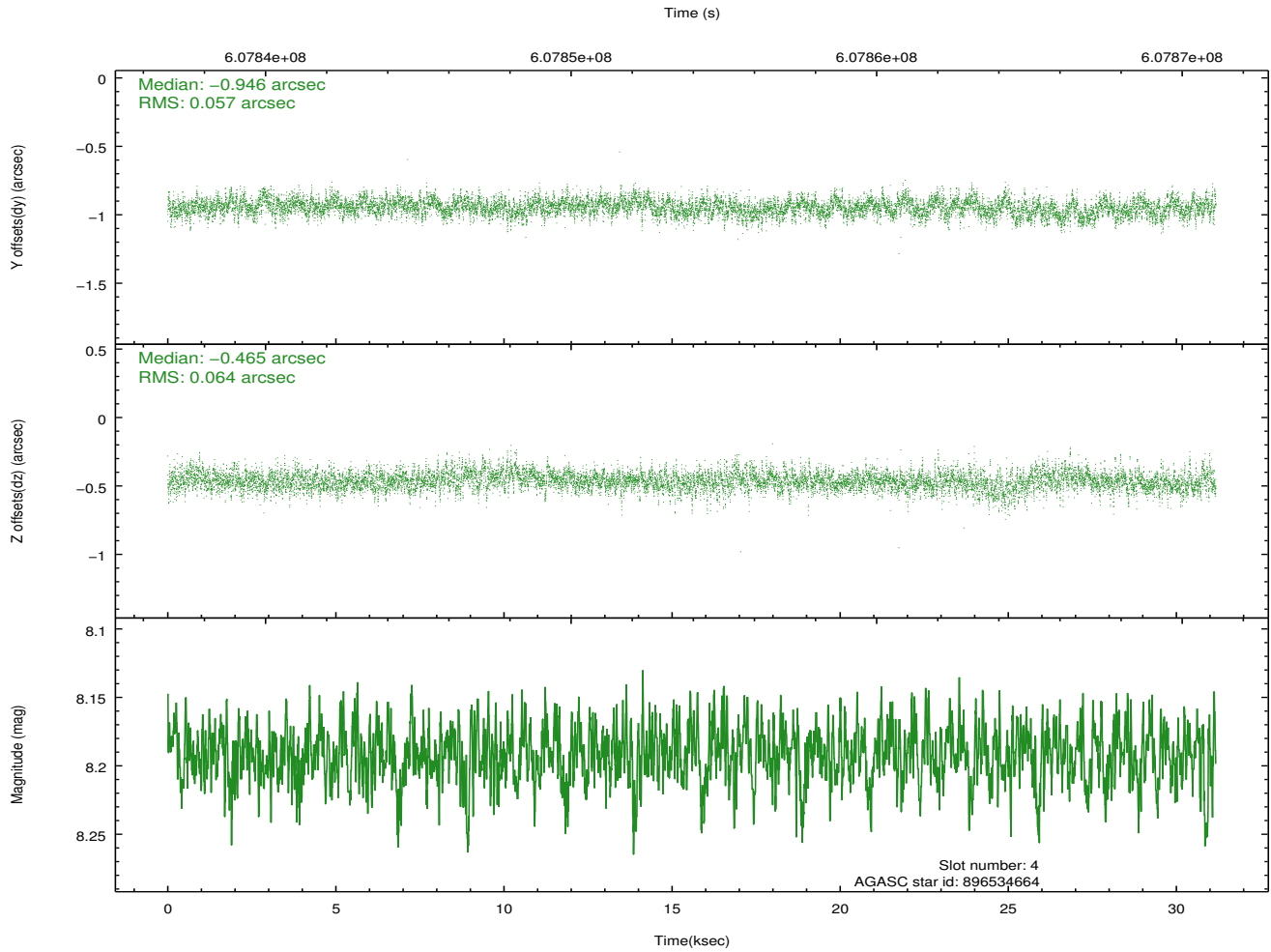
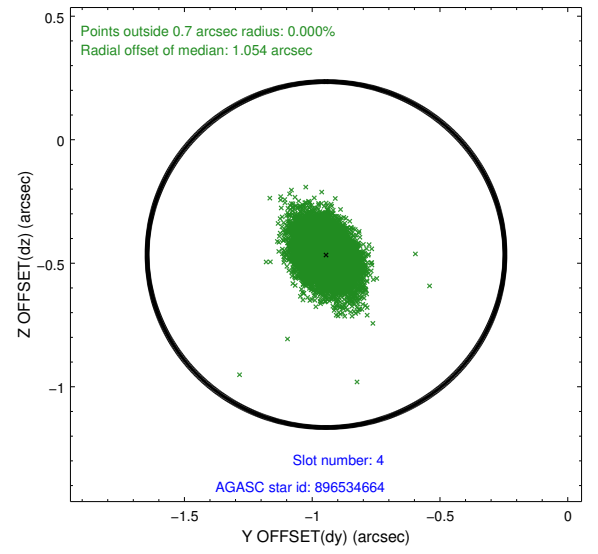
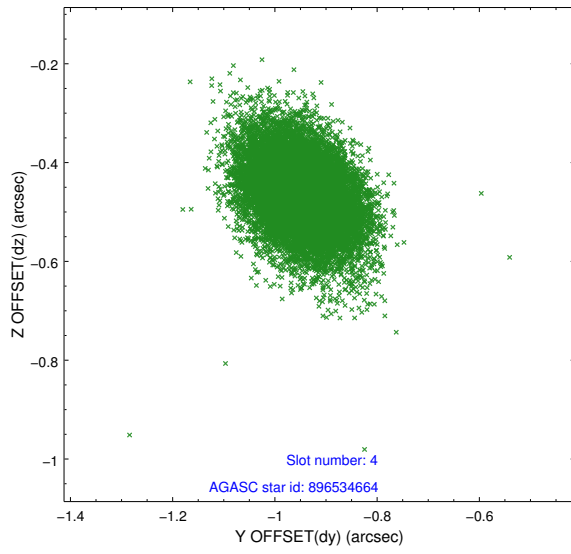
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	7605	-0.017	-0.053	0.018	0.064	0.000000	0.000000	-763.67	-1737.94
1	FID		ACIS-S-5	7.21	7604	-0.195	-0.031	0.035	0.071	0.000000	0.000000	-1816.98	164.02
2	FID		ACIS-S-6	7.34	7604	0.178	0.087	0.024	0.036	0.000000	0.000000	398.09	808.07
3	GUIDE	used	896533888	7.01	15206	0.325	0.107	0.089	0.151	266.666434	-29.392757	-1255.38	-825.49
4	GUIDE	used	896534664	8.19	15205	-0.946	-0.465	0.088	0.151	266.405570	-28.407461	2235.19	205.48
5	GUIDE	used	896537176	8.01	15206	-0.100	-0.083	0.083	0.146	266.498272	-28.678259	1280.79	-145.37
6	GUIDE	used	896537776	7.51	15206	0.587	0.164	0.089	0.150	266.655684	-29.665673	-2237.83	-849.20
7	GUIDE	used	896538208	7.94	15203	0.135	0.277	0.091	0.157	267.176969	-28.671626	1426.64	-2283.95

2.4 Star Slots

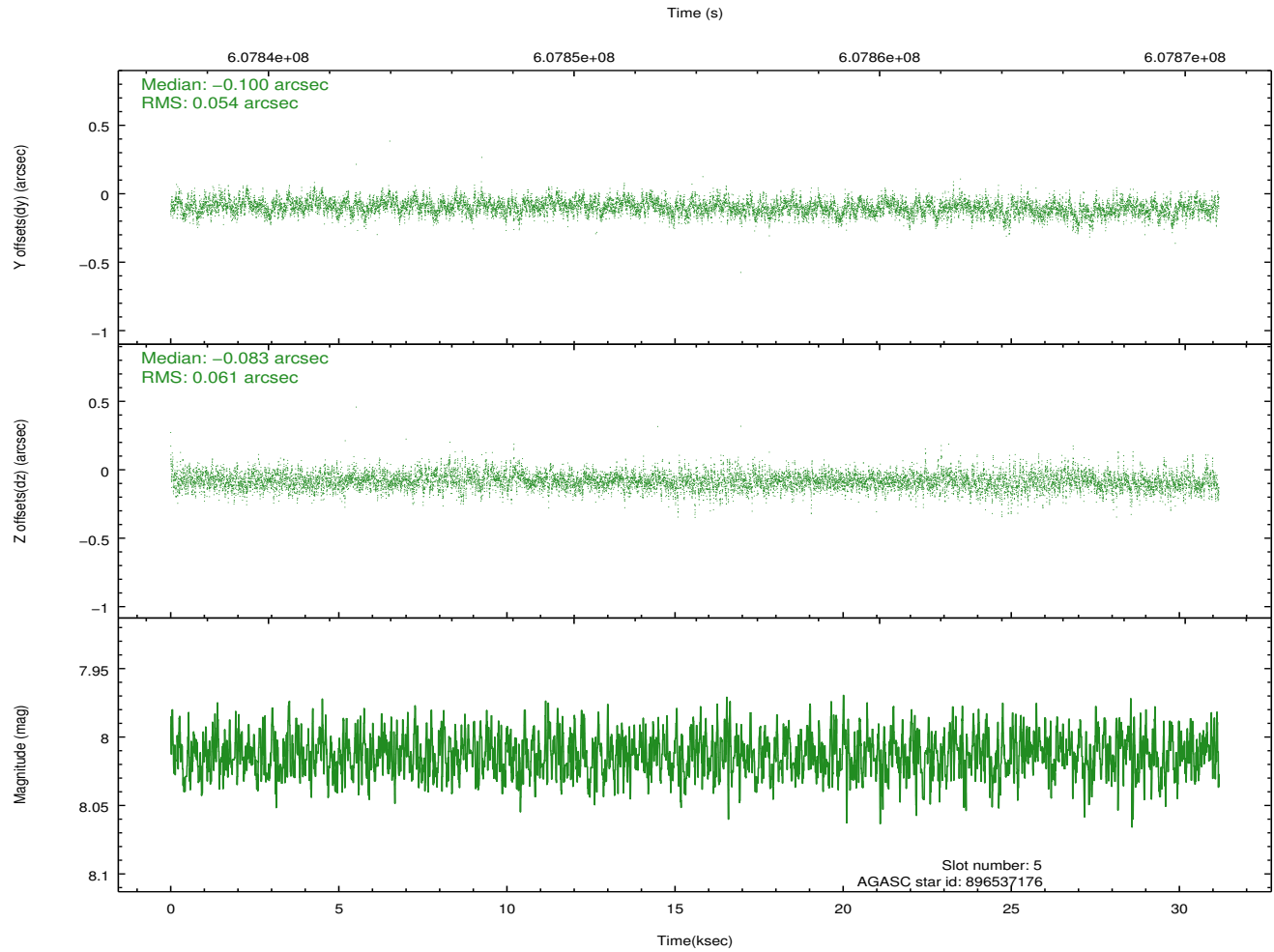
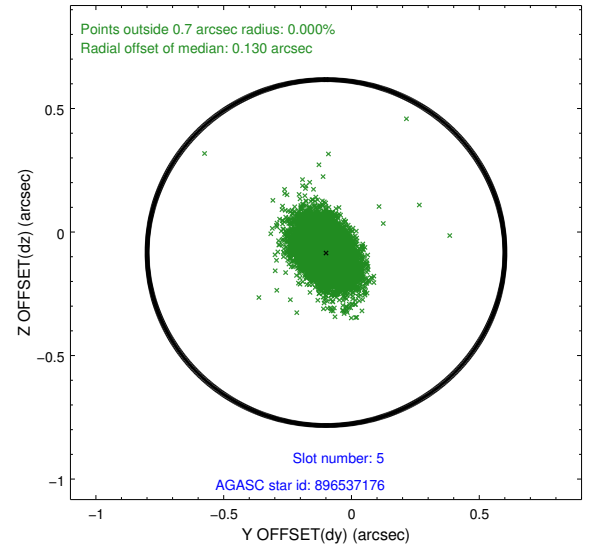
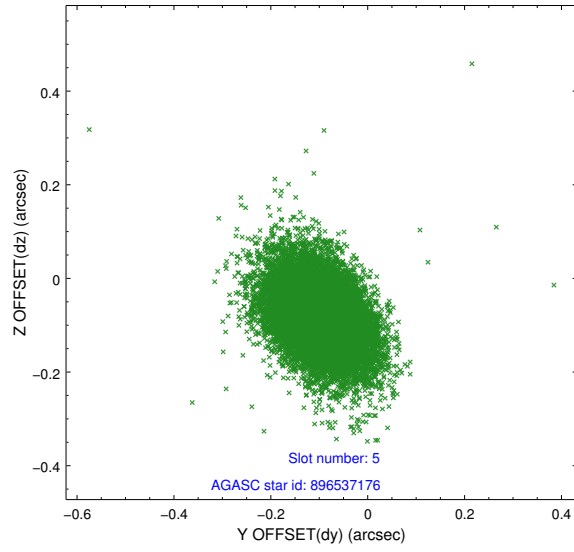
2.4.1 Slot 3



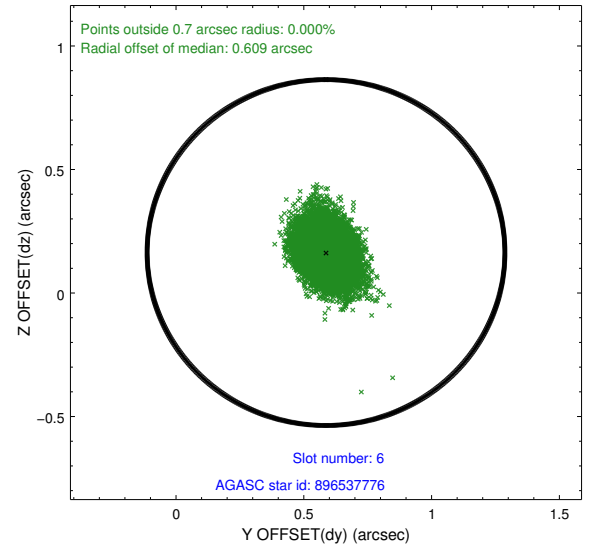
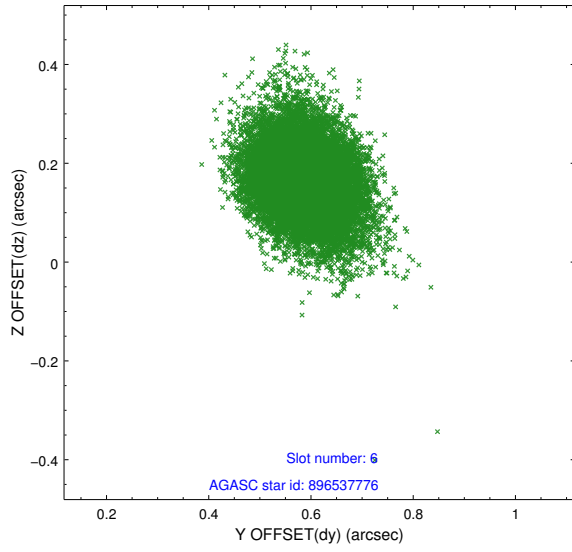
2.4.2 Slot 4



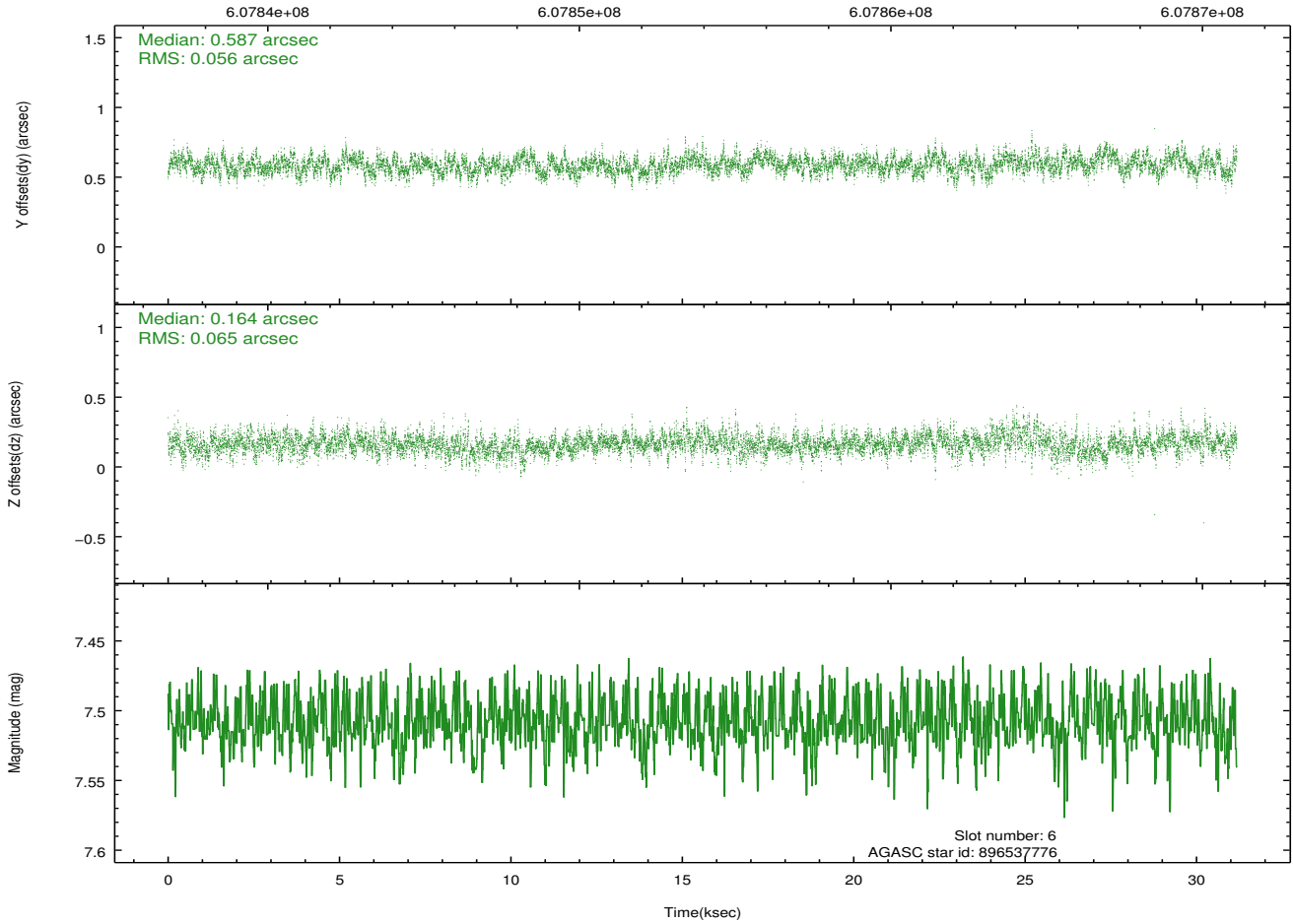
2.4.3 Slot 5



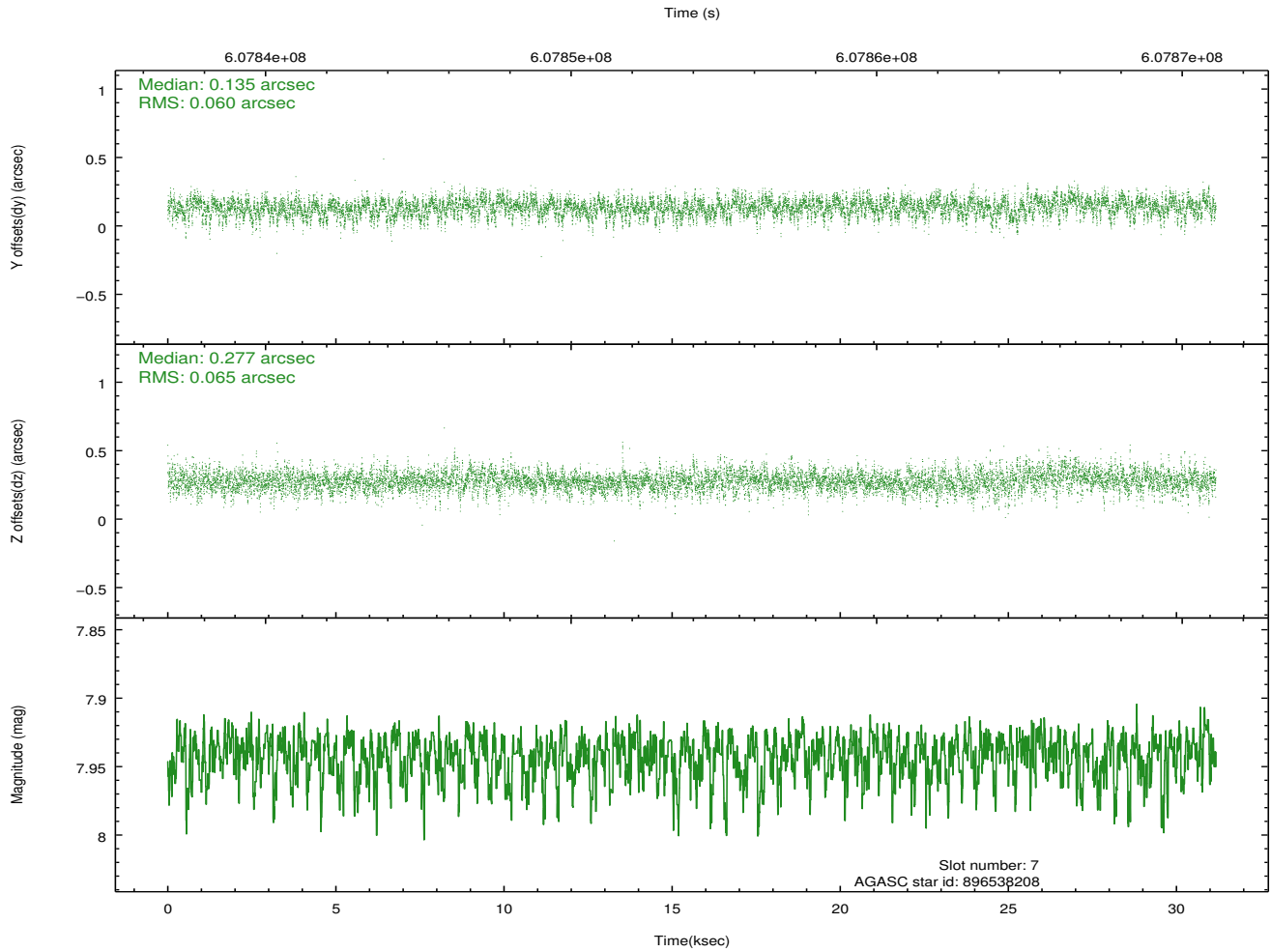
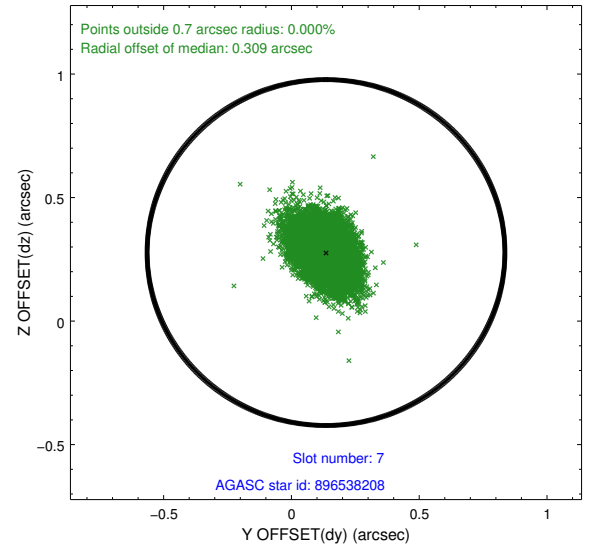
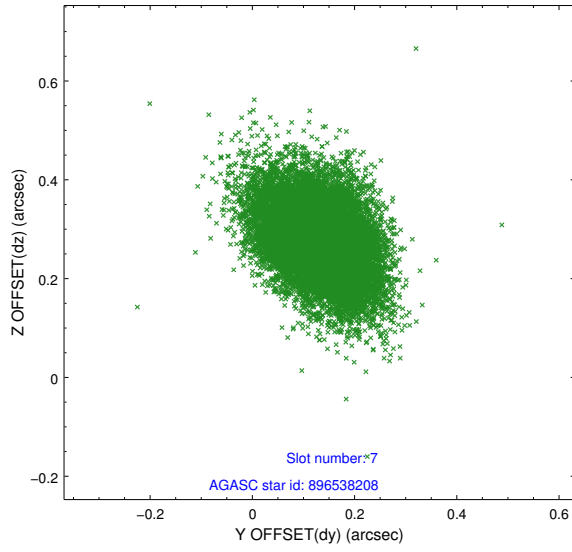
2.4.4 Slot 6



Time (s)

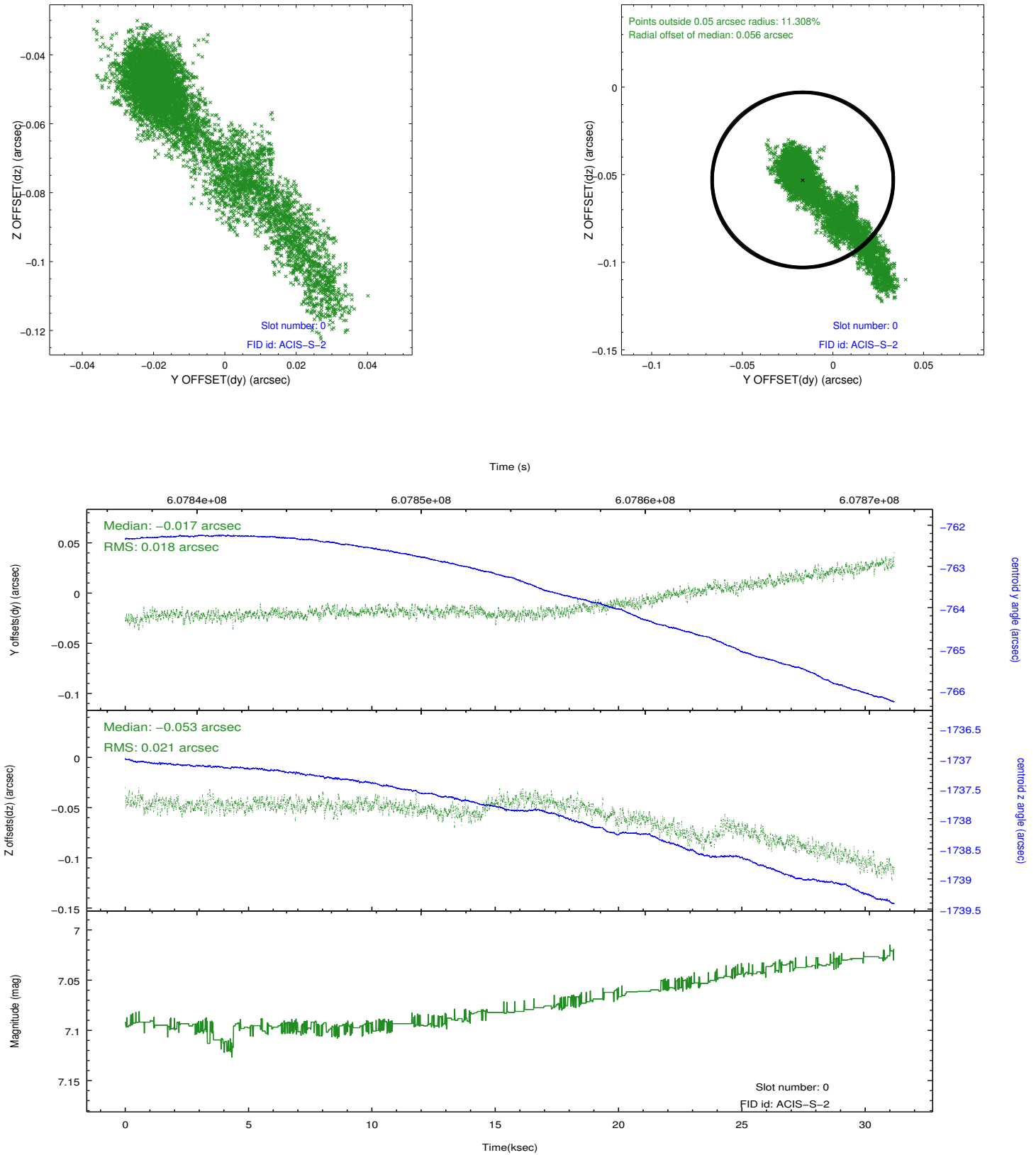


2.4.5 Slot 7

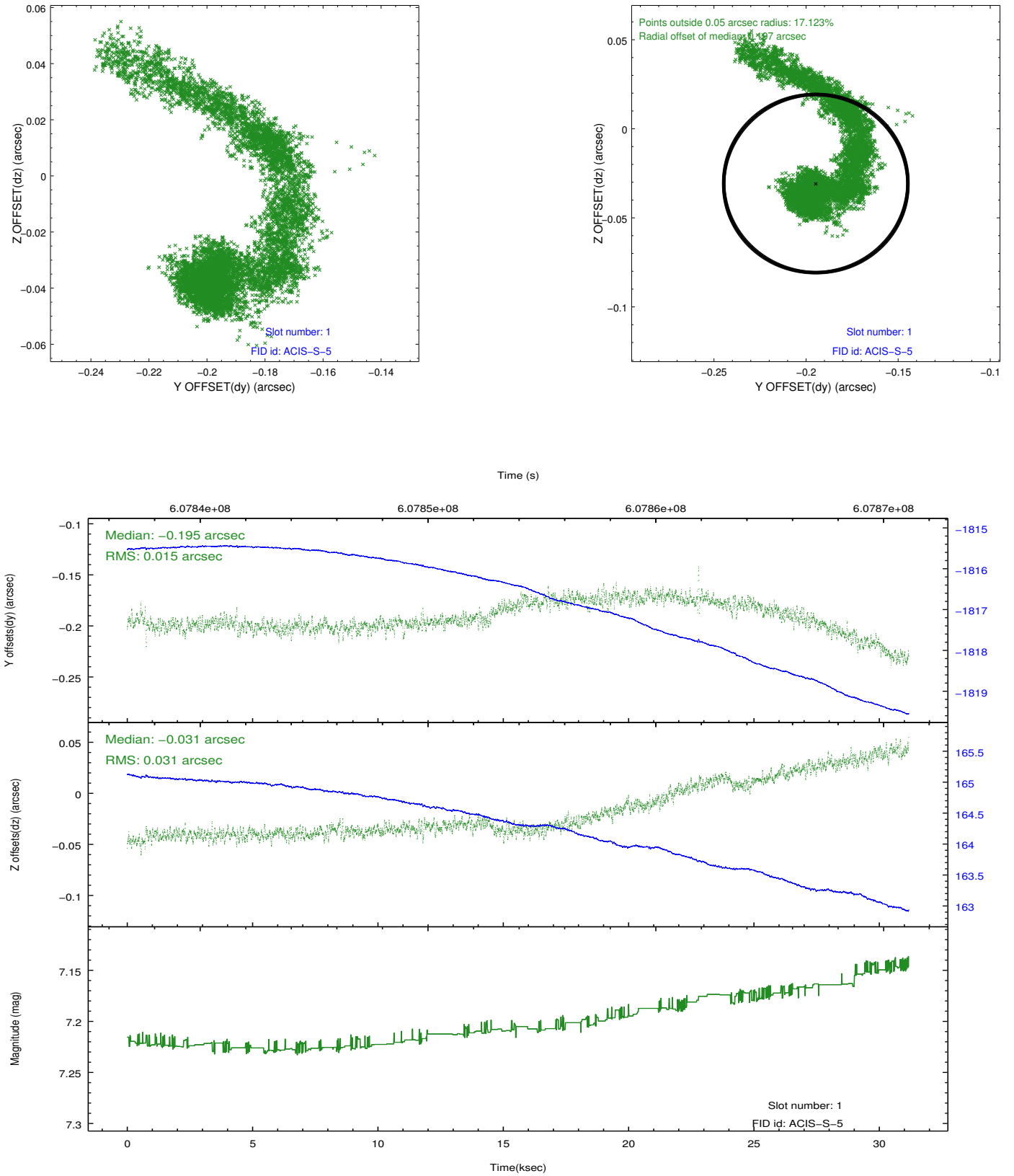


2.5 FID Slots

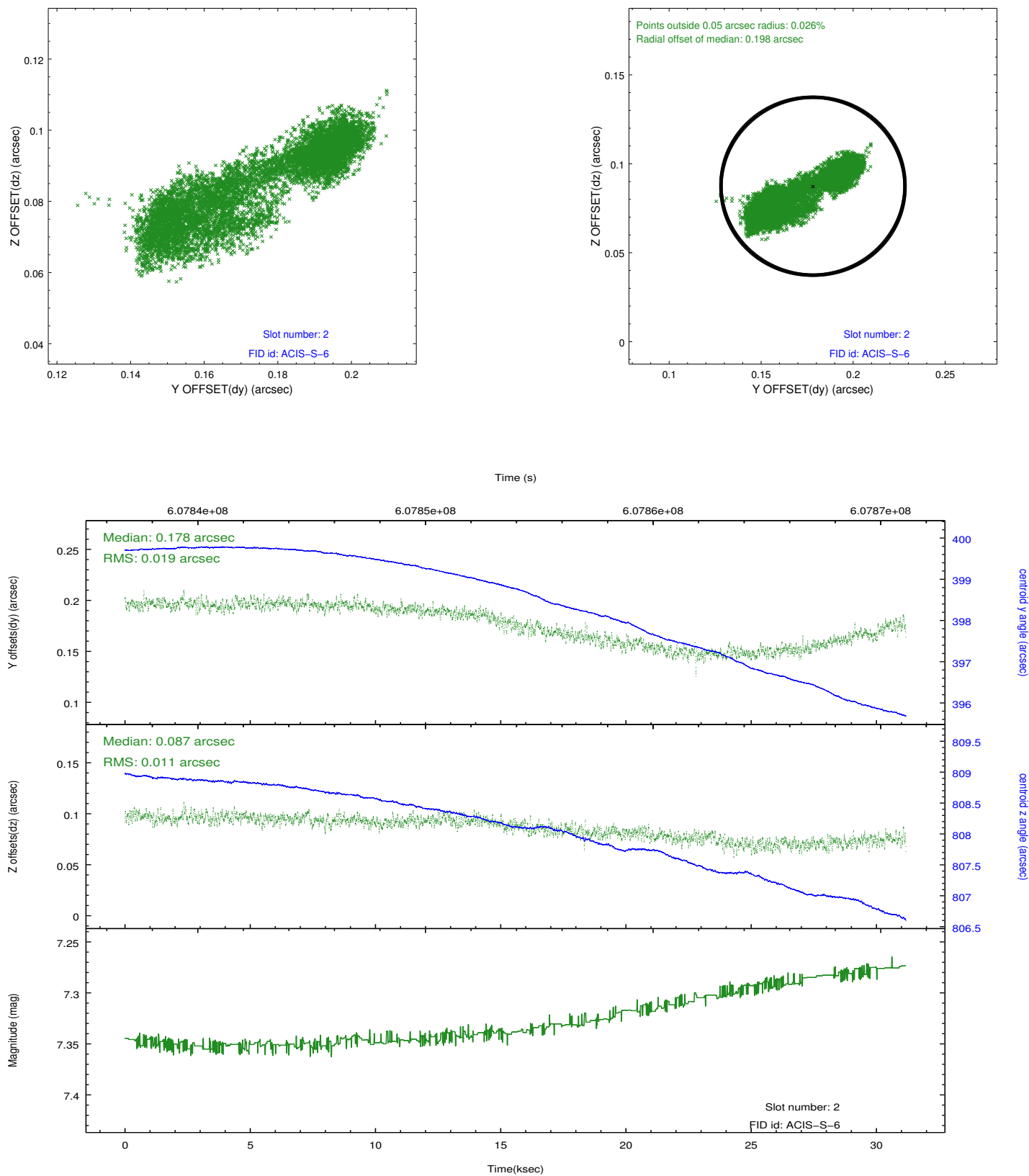
2.5.1 Slot 0



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)	2017.04.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.068737751365

A.2 Comments