

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21498 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Sep 9 2019

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1 Front

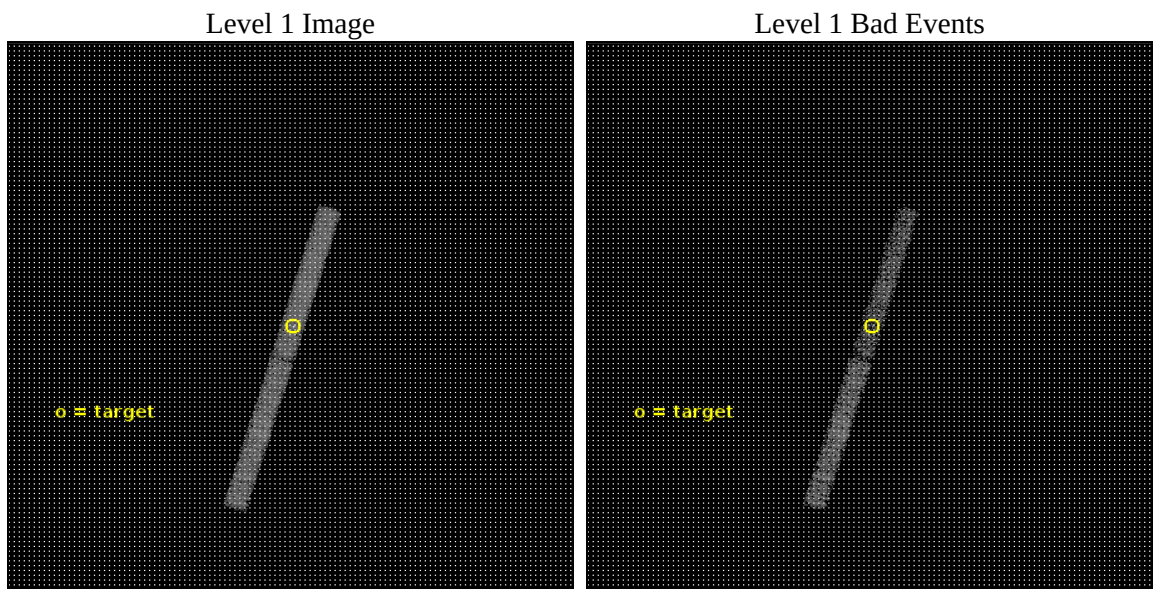
seq_num	703791	Sequence number
obs_id	21498	Observation id
title	Synchrotron emission in low-redshift quasars	Proposal title
observer	Mark Birkinshaw	Principal investigator
object	MRC2035-203	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	309.615833	Observer's specified target RA [deg]
dec_targ	-20.185444	Observer's specified target Dec [deg]
ra_nom	309.61898502928	Nominal RA [deg]
dec_nom	-20.185041719402	Nominal Dec [deg]
roll_nom	286.93164427814	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10091.5	Sum of GTIs [s]
livetime	9326.0202572823	Livetime [s]
ontime6	10090.958959937	Sum of GTIs [s]
ontime7	10091.5	Sum of GTIs [s]
l2events	9422	Number of level 2 events



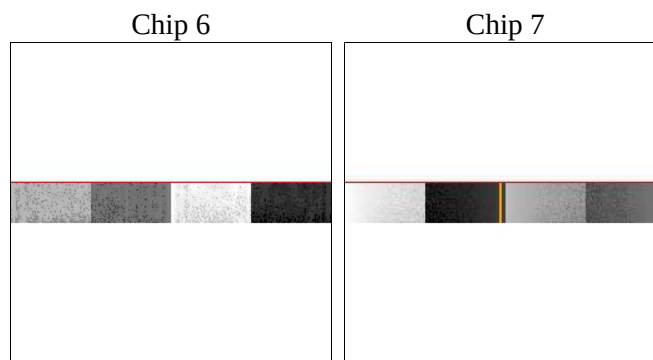
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	10091.5	Sum of GTIs [s]
caldsver	4.8.4.1	 	ontime6	10090.958959937	Sum of GTIs [s]
date	2019-09-09T20:48:52	Date and time of file creation	ontime7	10091.5	Sum of GTIs [s]
revision	1	Processing version of data	l1events	28752	Number of level 1 events

2.1.4 Events

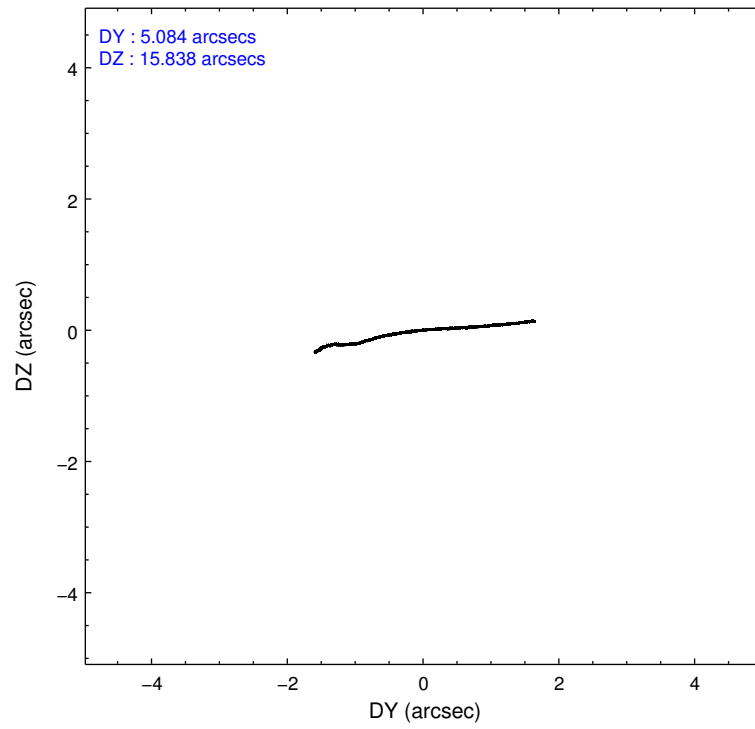
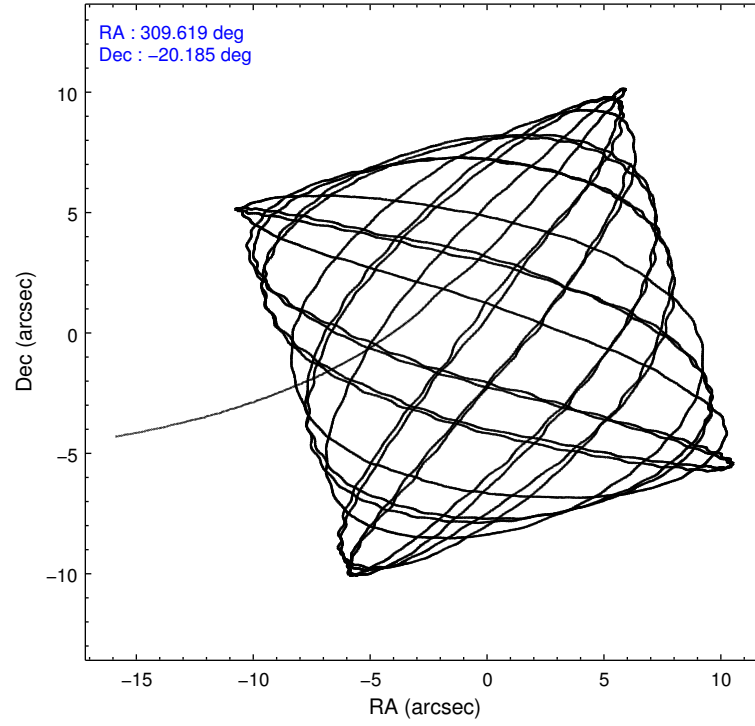
	ccd 6	ccd 7
level 1 events	13229	15523
rejected events	11706	7025
rejected %	88%	45%

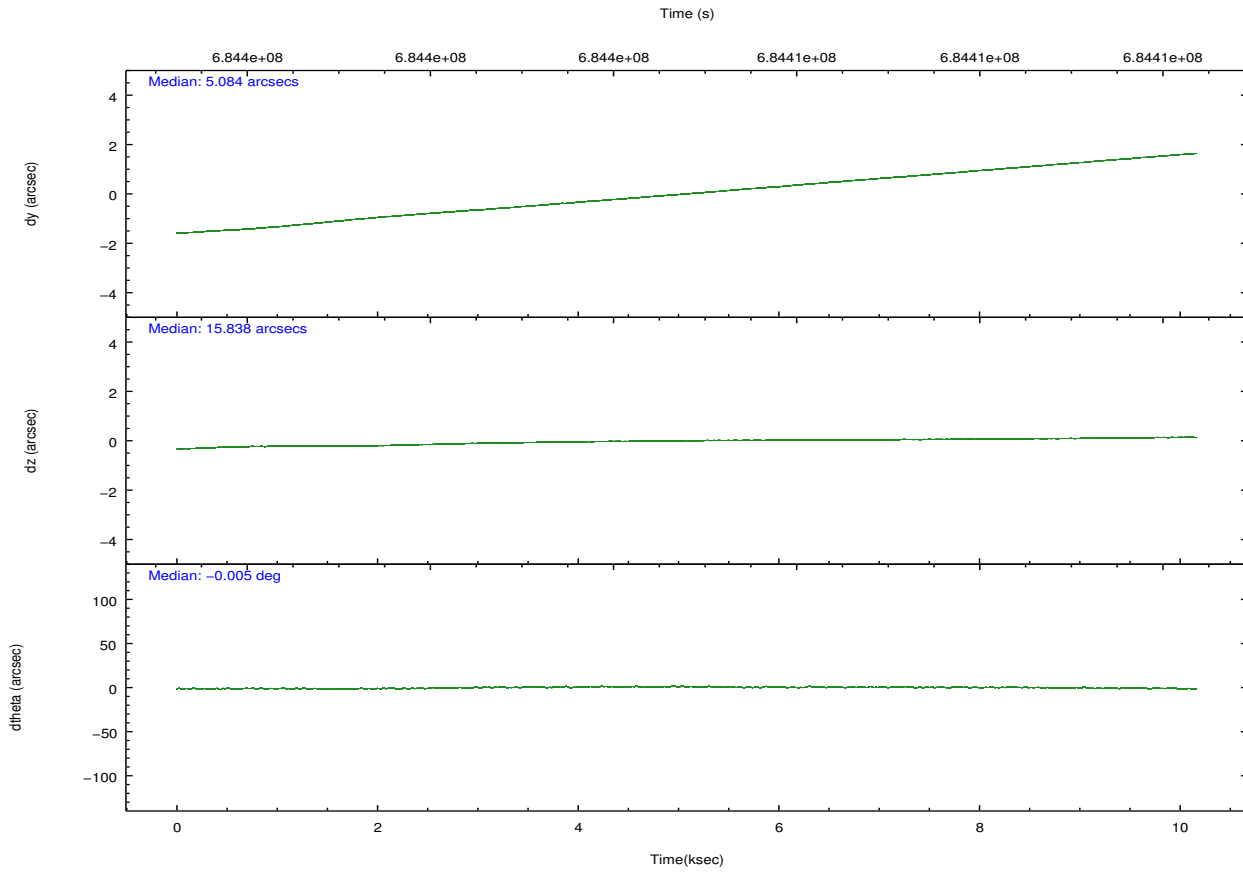
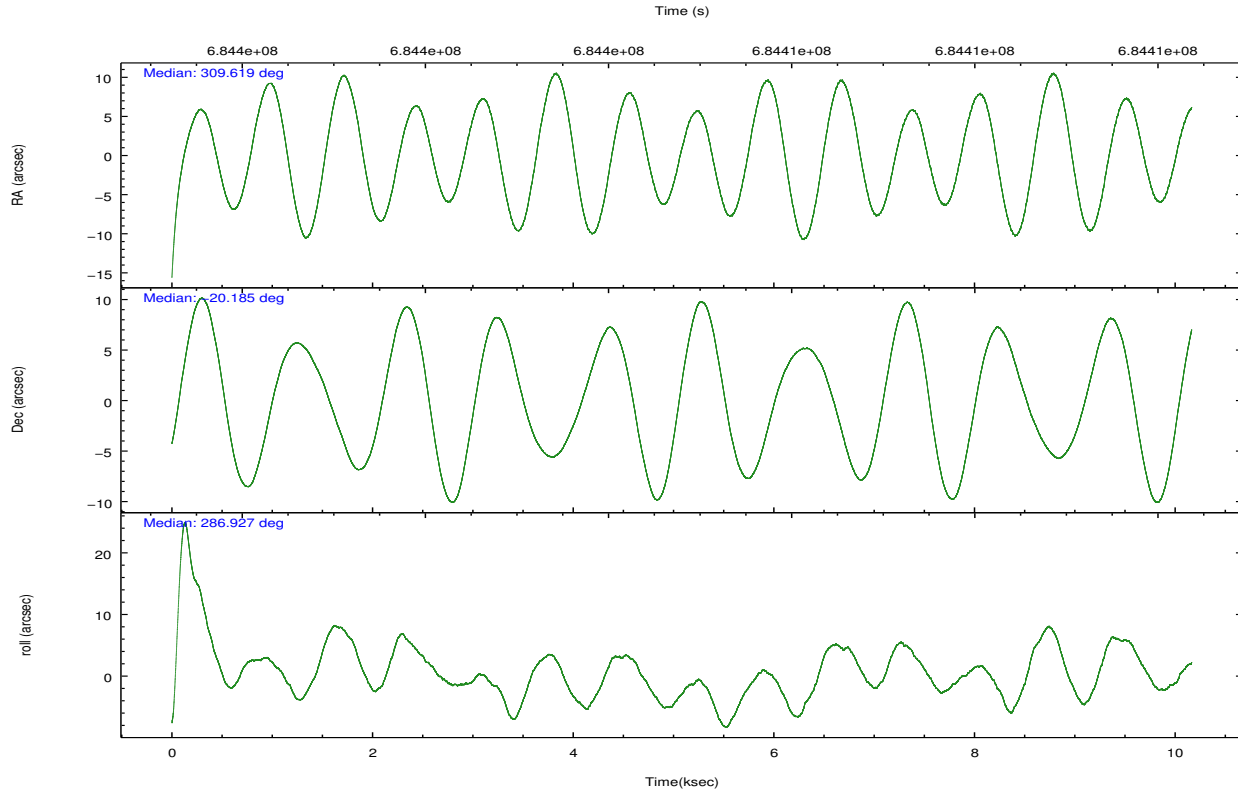
	ccd 6	ccd 7
grade 0 events	398	1115
	3%	7%
grade 1 events	4	19
	0%	0%
grade 2 events	244	1833
	1%	11%
grade 3 events	309	986
	2%	6%
grade 4 events	278	981
	2%	6%
grade 5 events	487	1431
	3%	9%
grade 6 events	294	3583
	2%	23%
grade 7 events	11215	5575
	84%	35%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-67	ACIS-67	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	309.597354	309.6189850292814	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-20.166575	-20.18504171940241	Subarray start row	449	449
[deg] Pointing Roll	286.767589	286.9316442781377	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.5
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	684399886.184000	684398936.26305			
Observation start date	2019-09-09T07:03:37	2019-09-09T06:48:56			
[s] Observation end time (MET)	684409886.184000	684410603.83876			
Observation end date	2019-09-09T09:50:17	2019-09-09T10:03:23			
Read mode	TIMED	TIMED			

2.3 Aspect



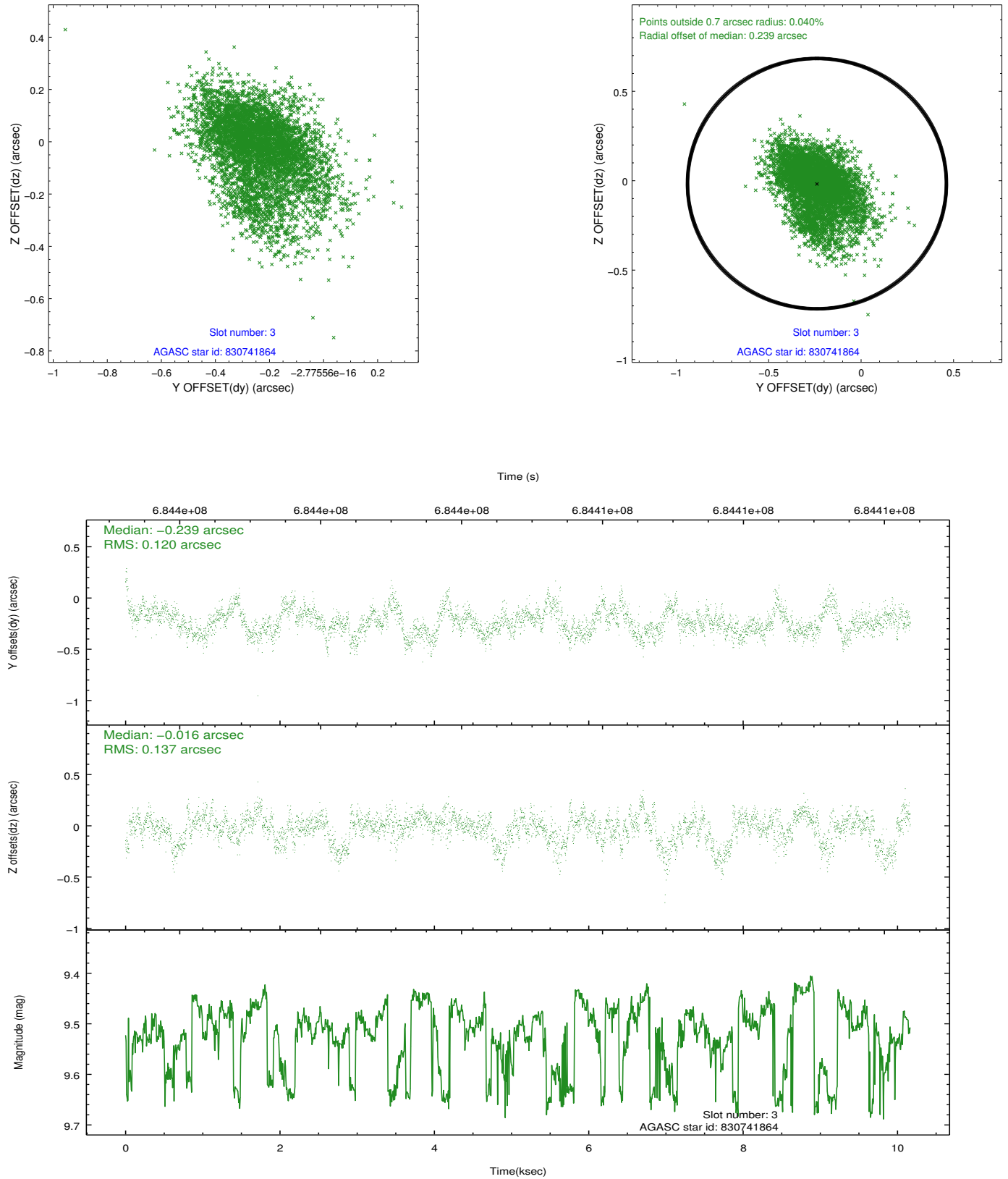


Slot Statistics

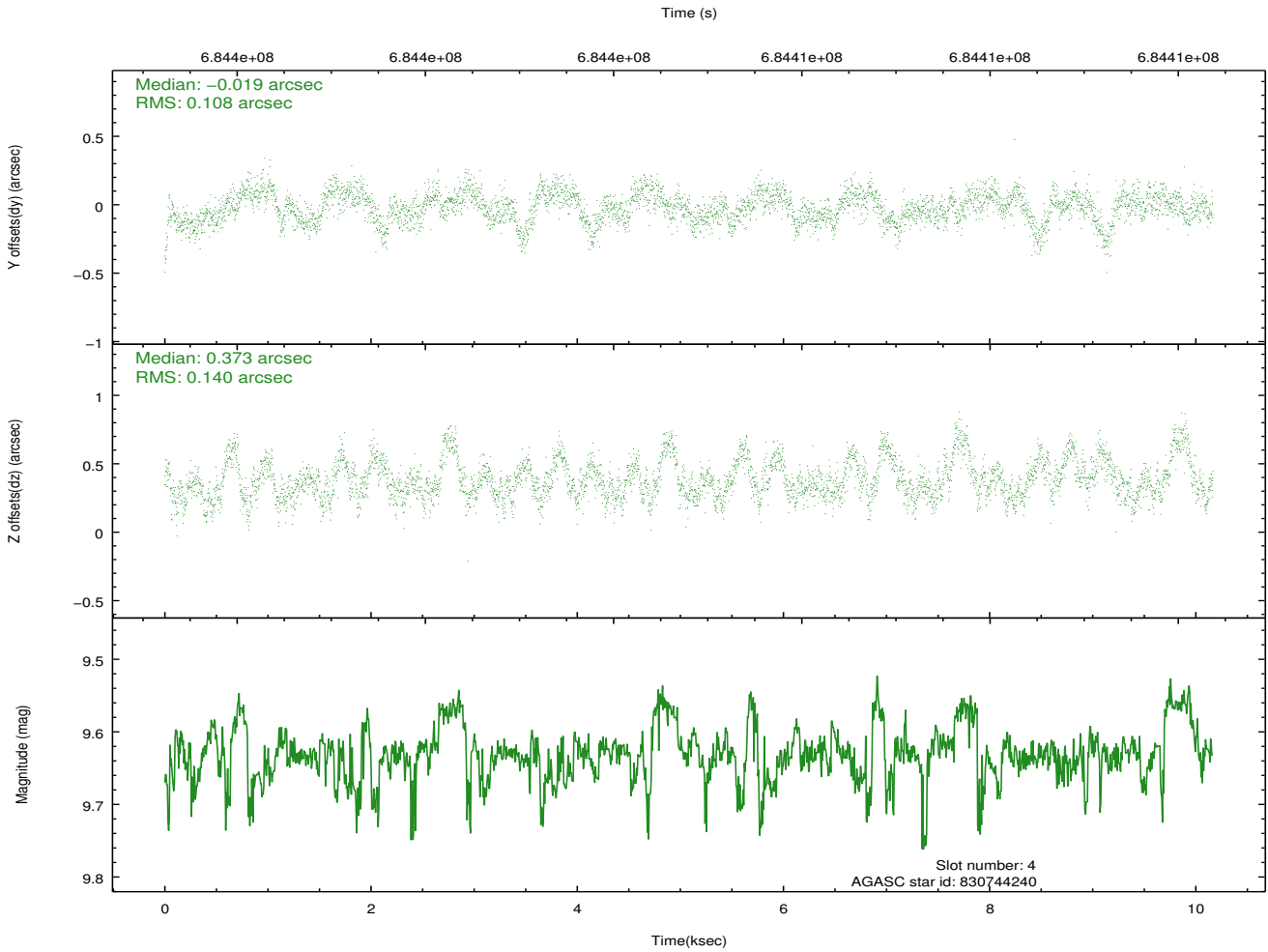
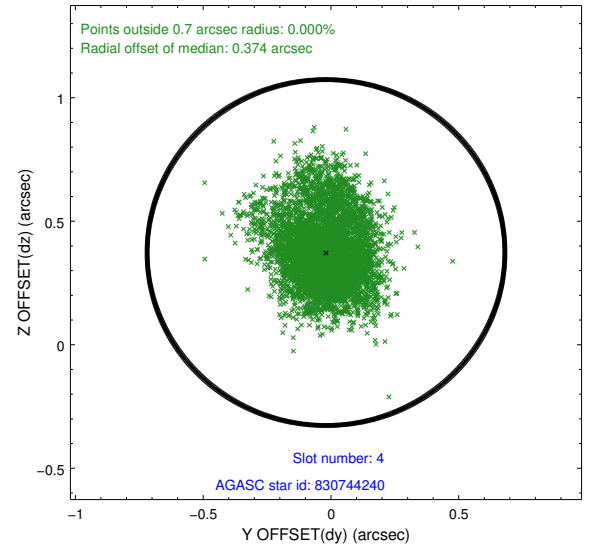
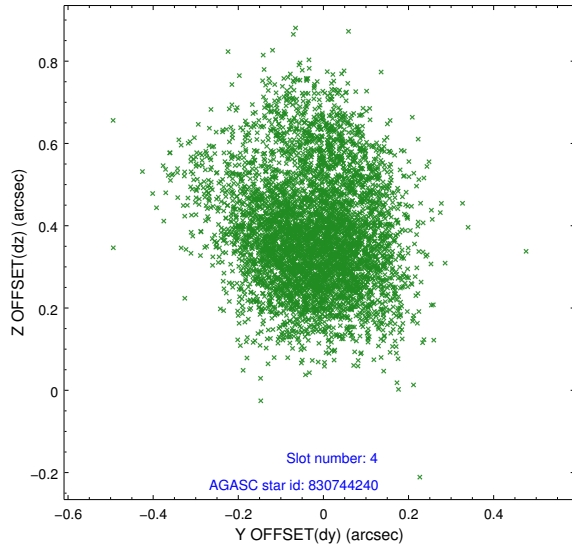
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.99	2480	1.000	-0.248	-0.063	0.018	0.034	0.000000	0.000000	-758.00	-1737
1	FID		ACIS-S-4	7.11	2480	1.000	0.527	0.139	0.015	0.028	0.000000	0.000000	2155.77	170
2	FID		ACIS-S-5	7.11	2480	1.000	-0.311	-0.063	0.016	0.022	0.000000	0.000000	-1810.28	164
3	GUIDE	used	830741864	9.52	4953	1.000	-0.239	-0.016	0.189	0.327	309.889296	-19.673146	-1413.08	1460
4	GUIDE	used	830744240	9.63	4953	1.000	-0.019	0.373	0.185	0.312	309.466192	-20.069439	-462.54	-322
5	GUIDE	used	830746952	9.07	4950	1.000	-0.196	-0.103	0.140	0.252	309.570539	-19.560776	-2114.23	541
6	GUIDE	used	830747528	8.79	4956	1.000	-0.054	0.290	0.104	0.168	309.179118	-19.828831	-1571.07	-1005
7	GUIDE	used	831272120	8.84	4952	1.000	0.525	-0.554	0.184	0.342	309.087136	-20.980810	2316.68	-2488

2.4 Star Slots

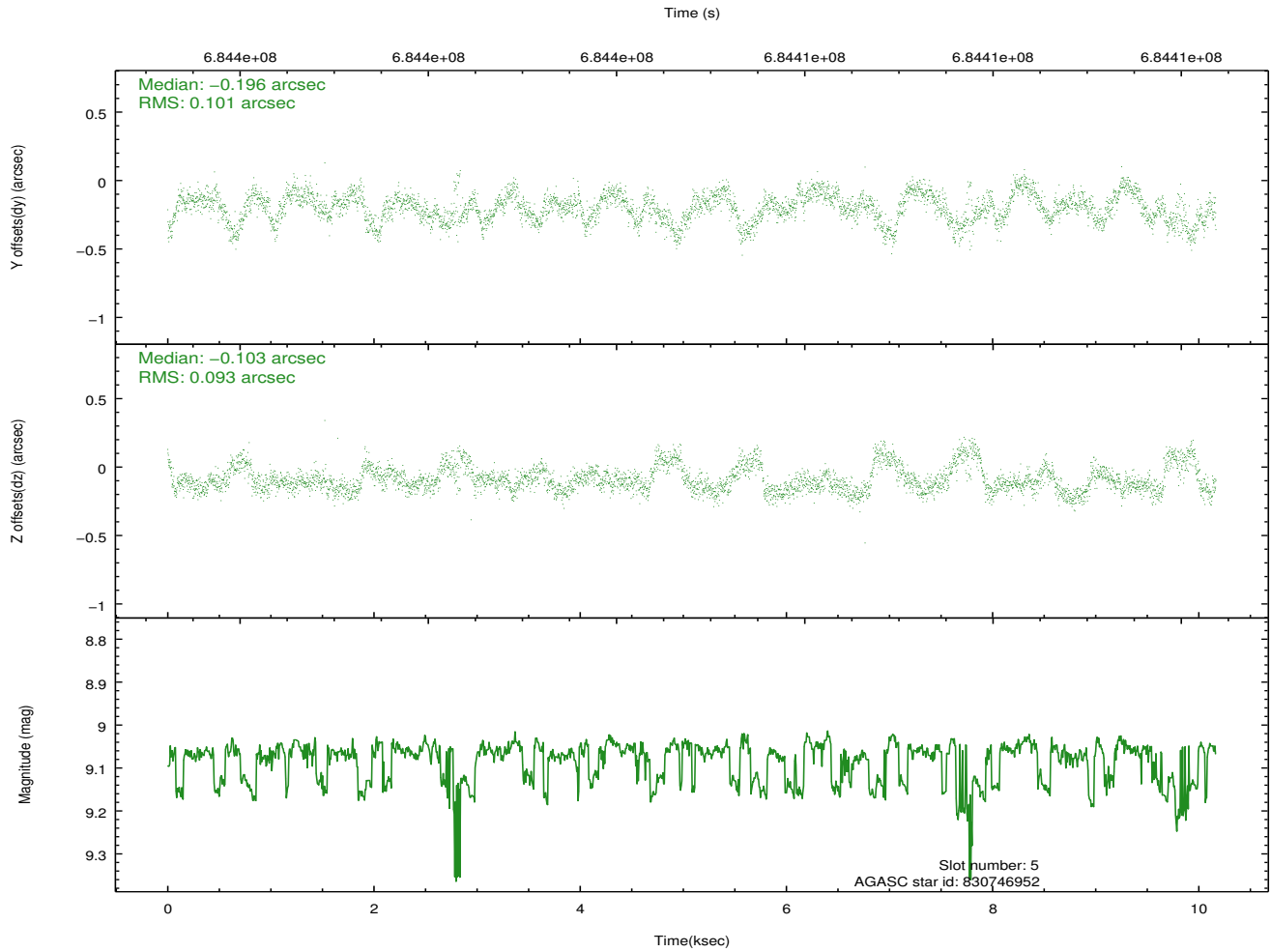
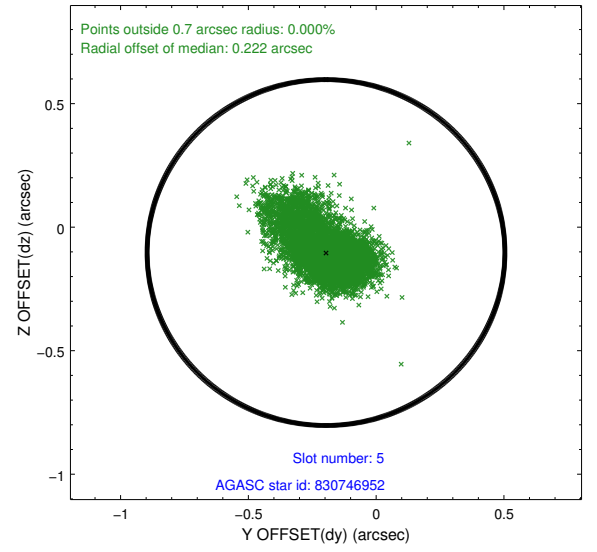
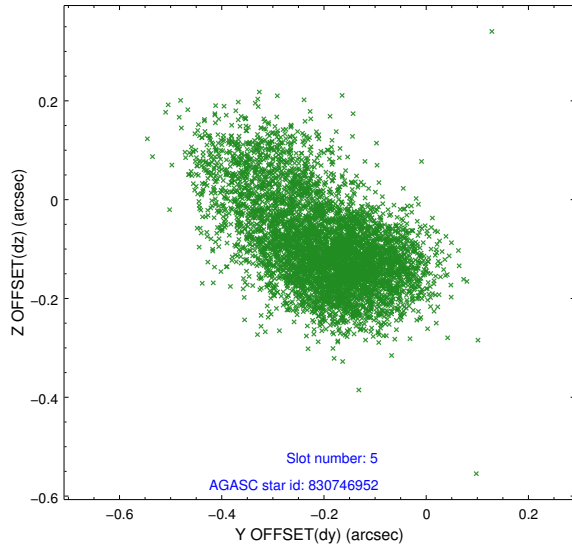
2.4.1 Slot 3



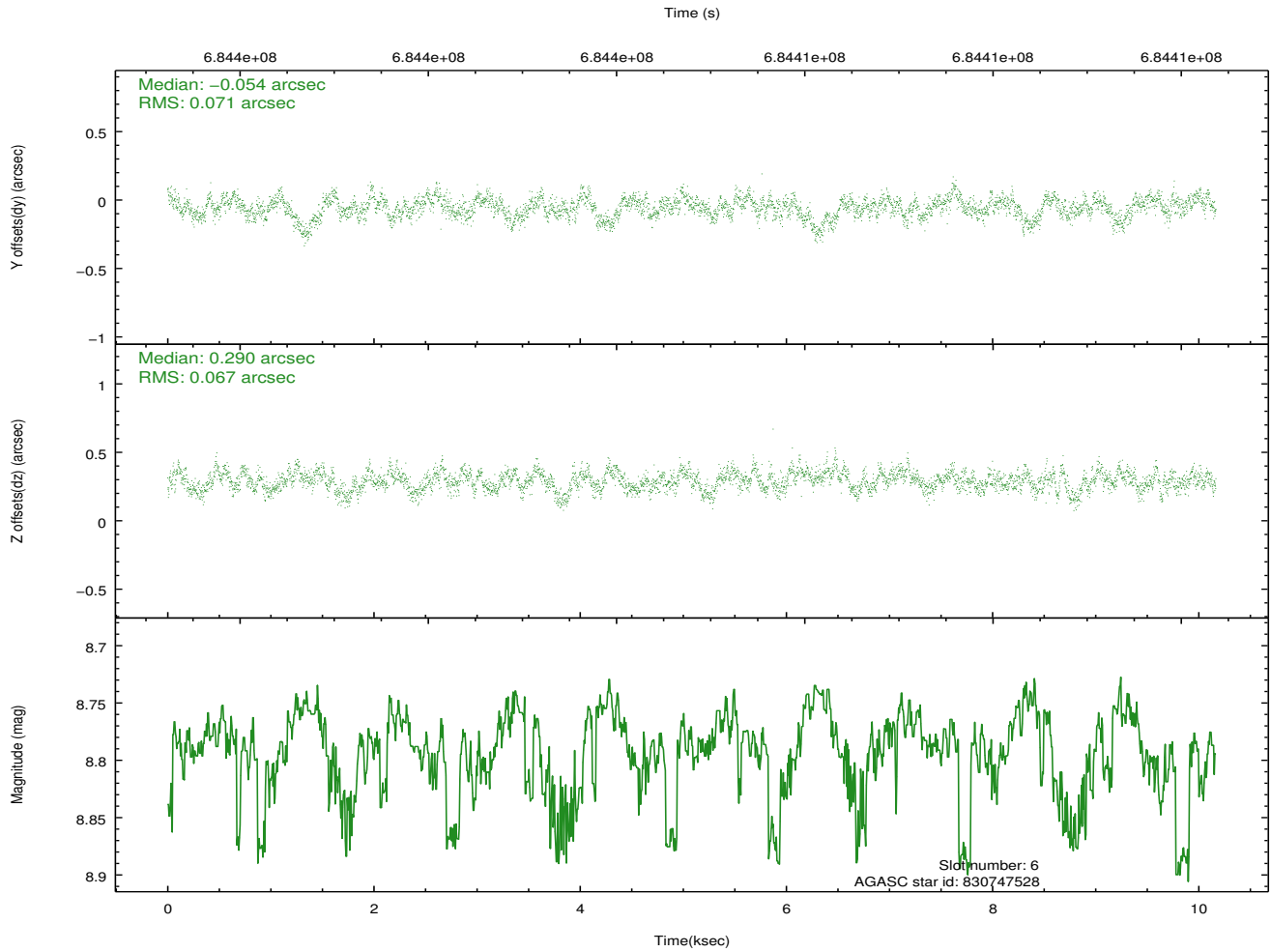
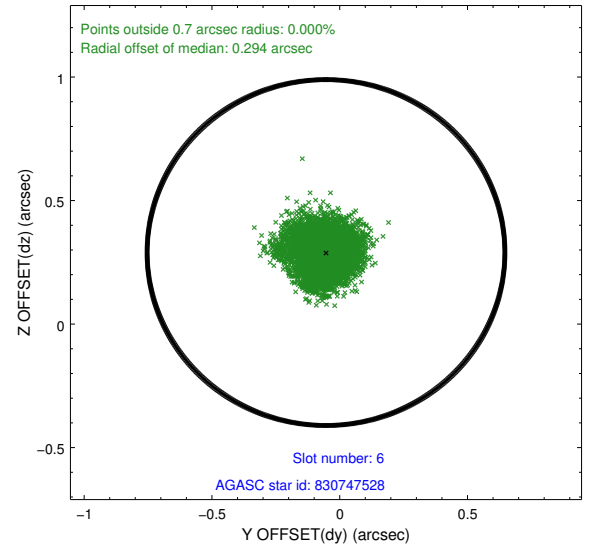
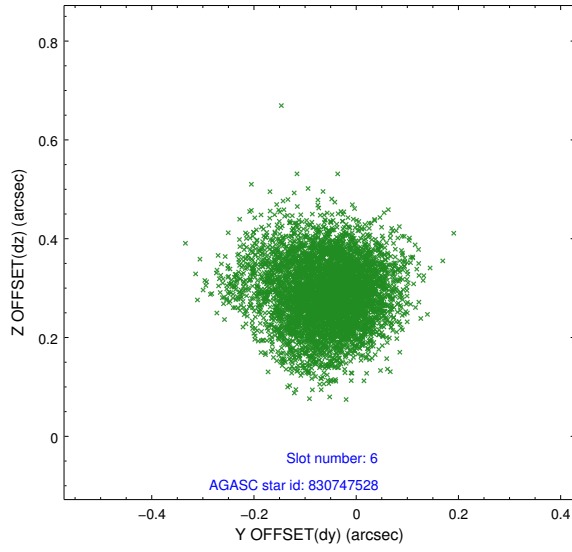
2.4.2 Slot 4



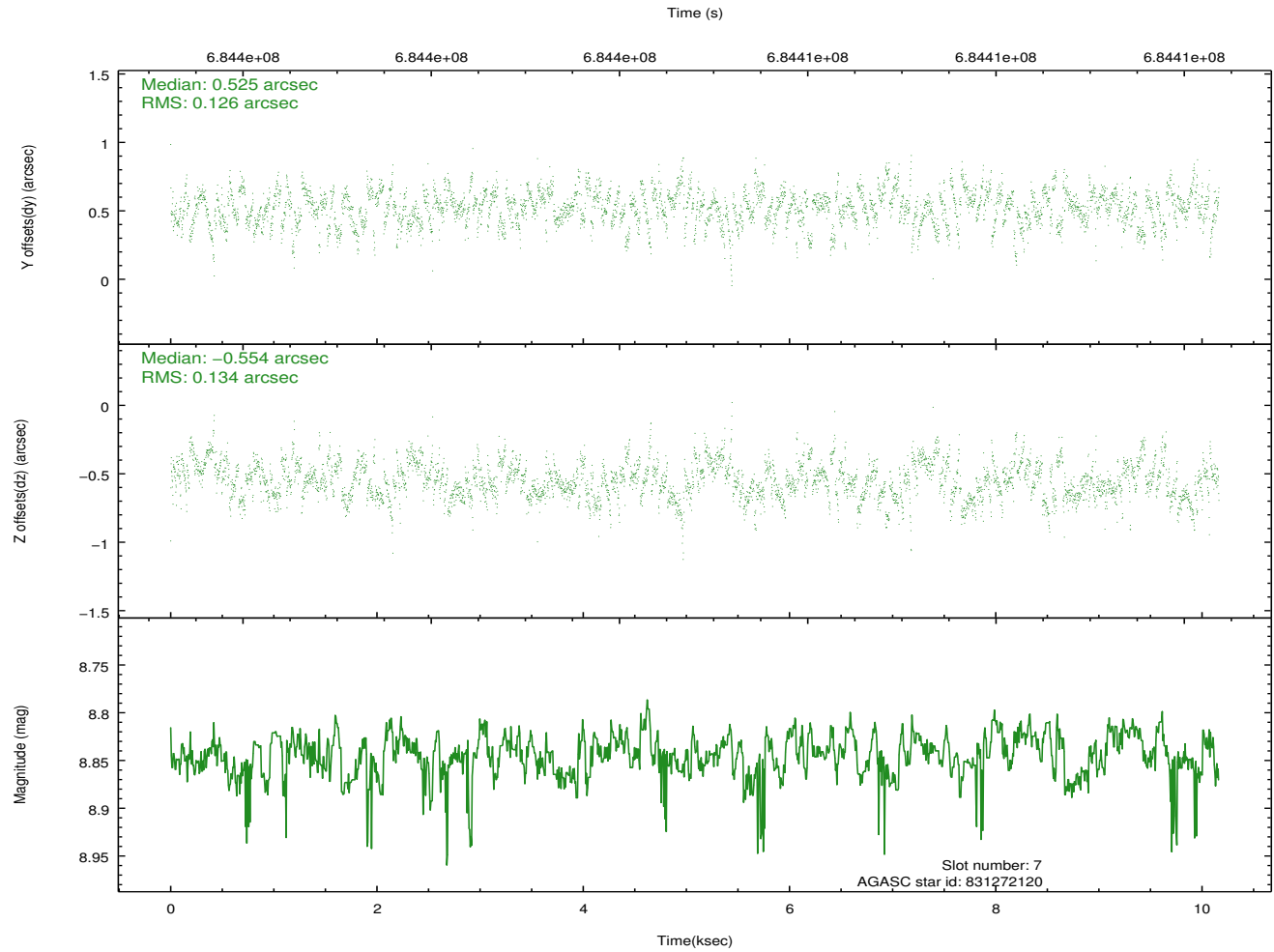
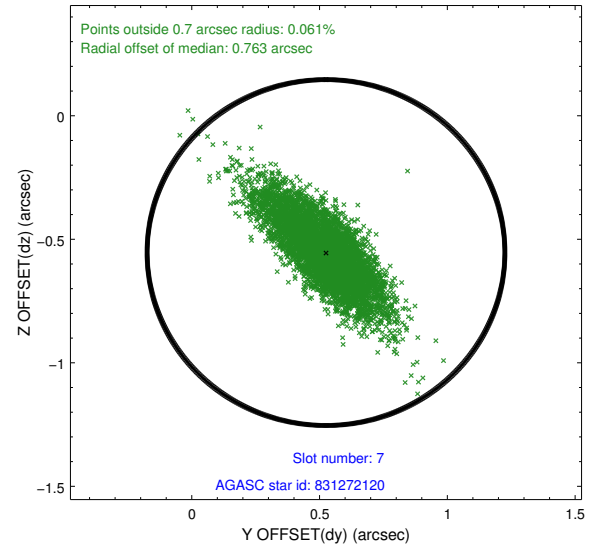
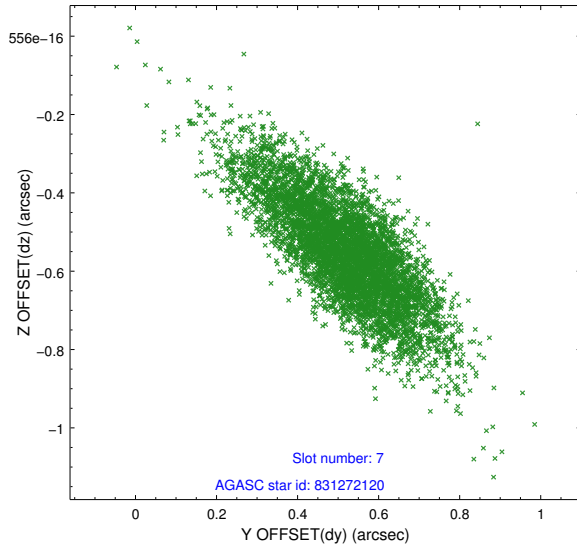
2.4.3 Slot 5



2.4.4 Slot 6

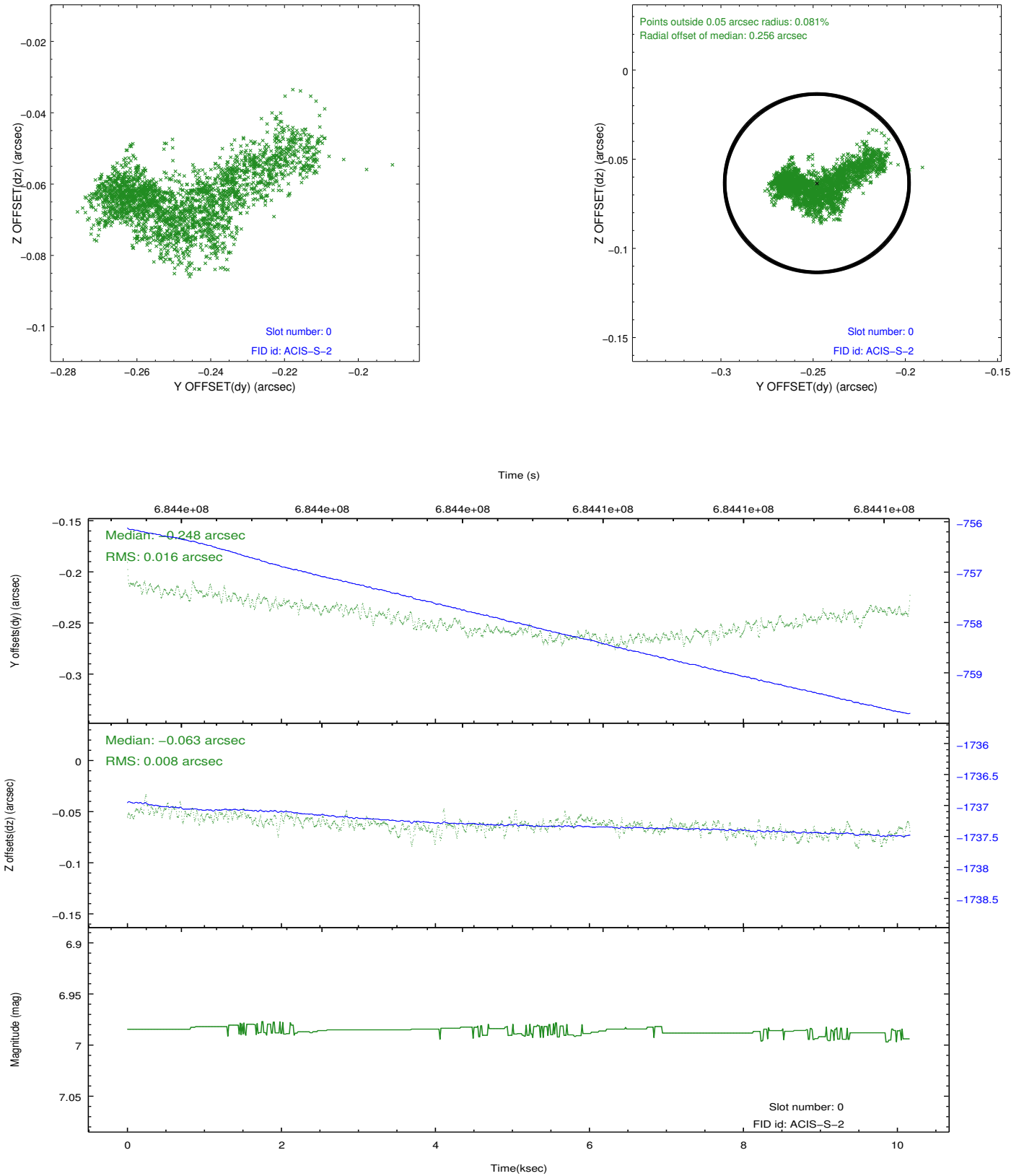


2.4.5 Slot 7

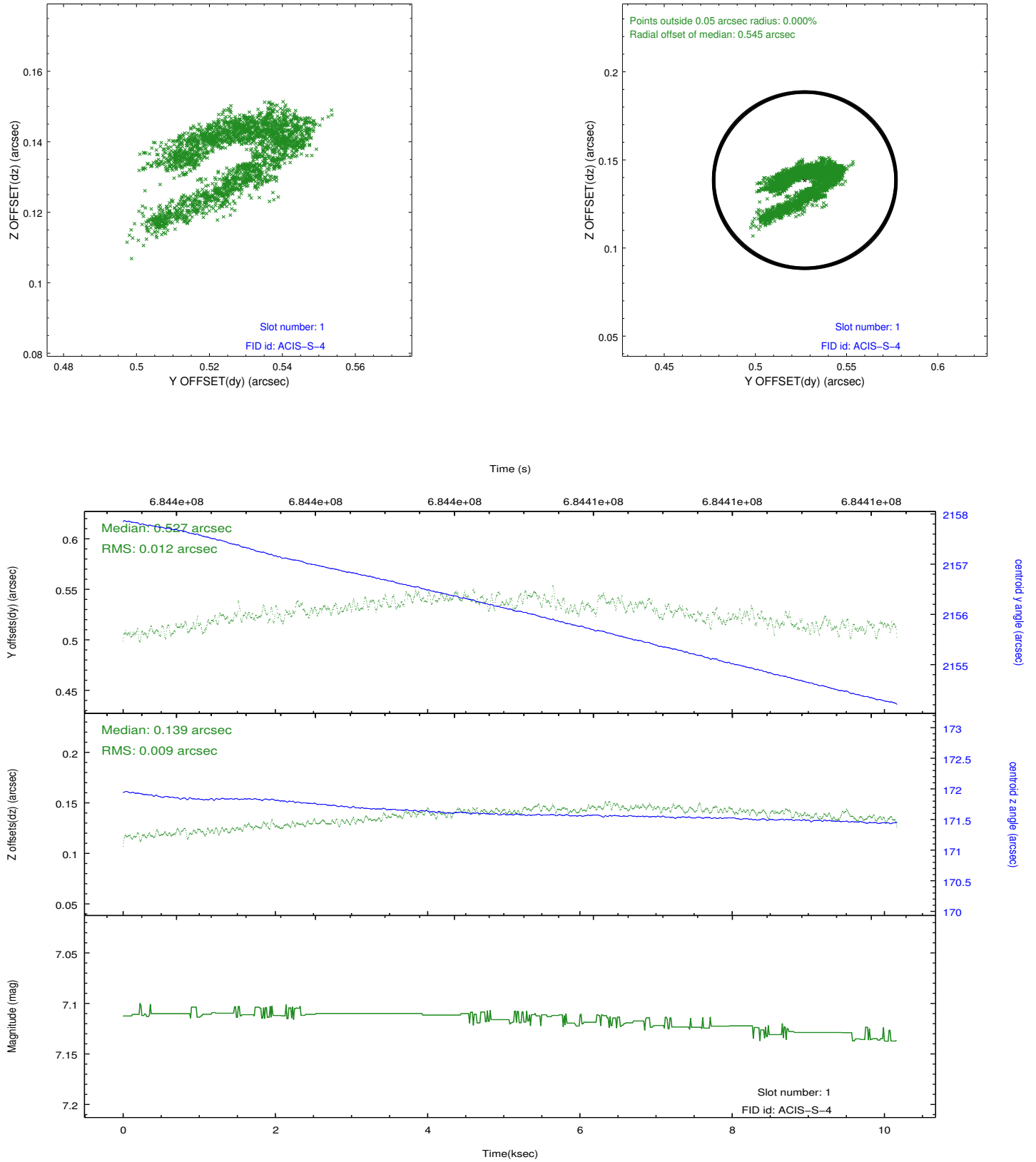


2.5 FID Slots

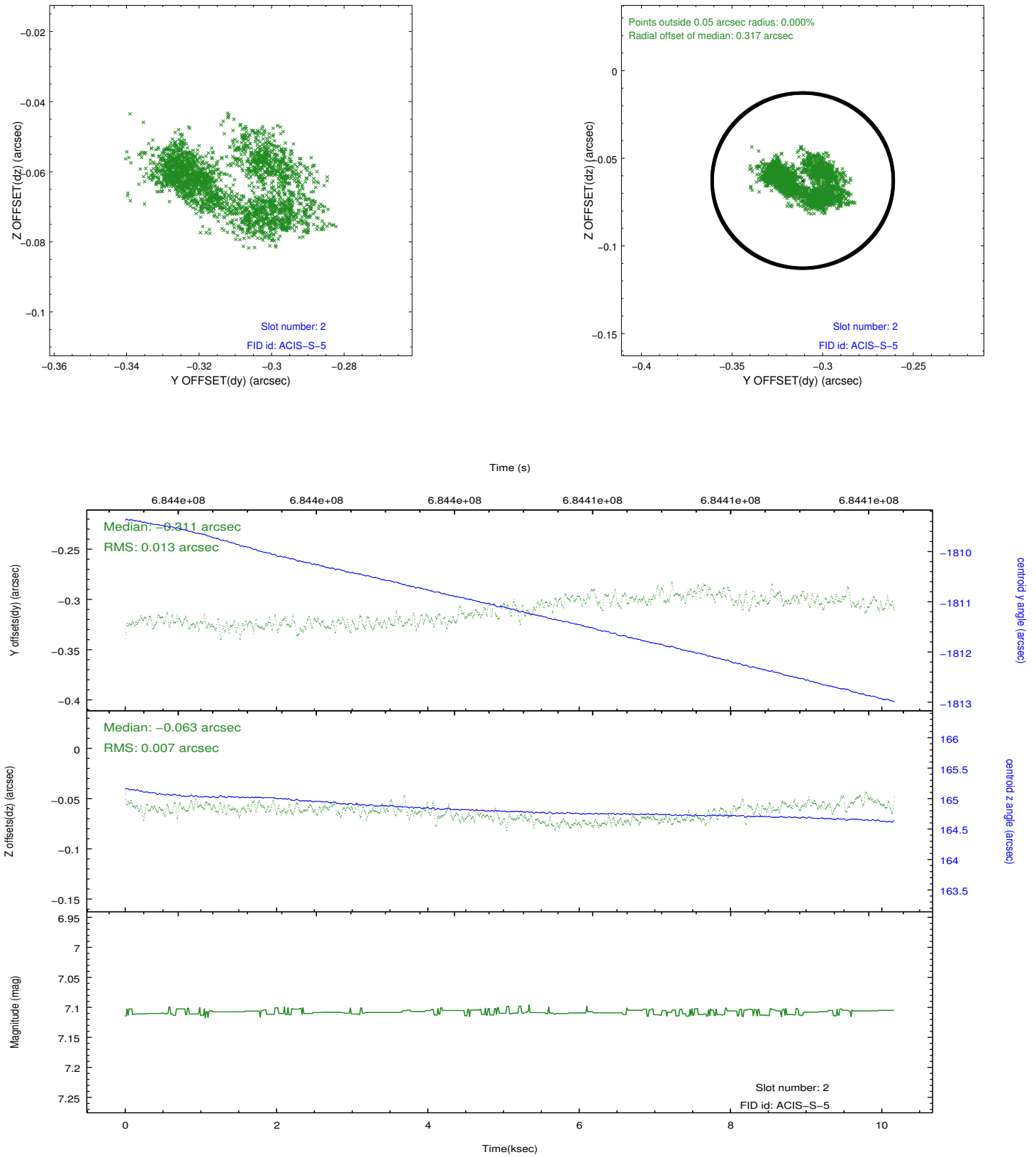
2.5.1 Slot 0



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)	2019.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.0915

A.2 Comments