

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18984 - L2 Version 1
Chandra X-Ray Center

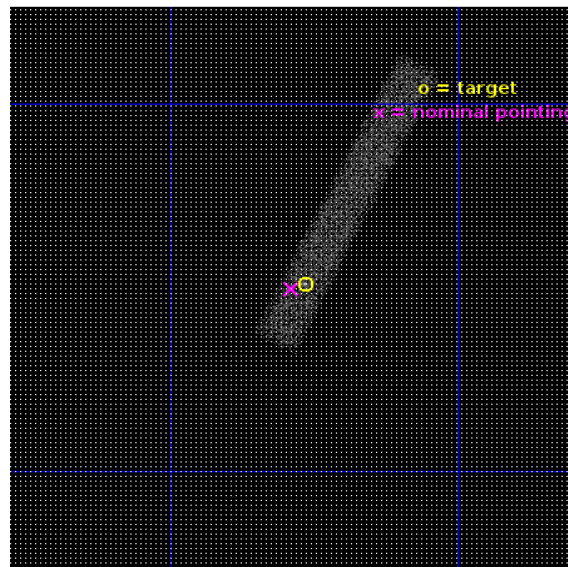
L2 Processing Date : Nov 23 2016

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1 Front

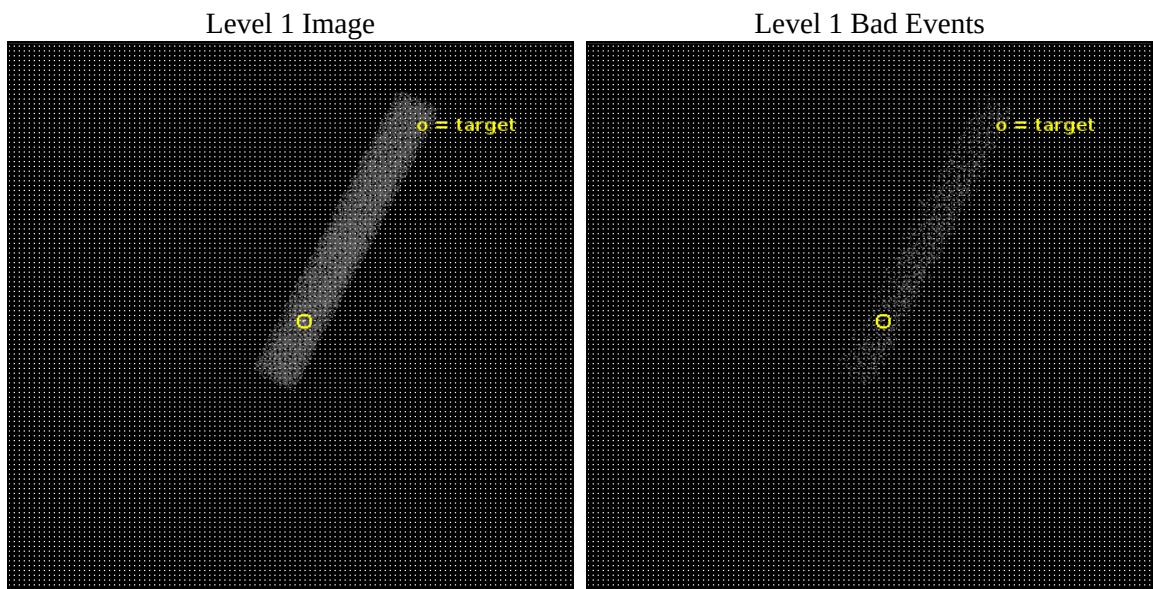
seq_num	401852	Sequence number
obs_id	18984	Observation id
title	New progress in understanding the crusts of neutron stars	Proposal
observer	Nathalie Degenaar	Principal investigator
object	Aql X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.81625	Observer's specified target RA [deg]
dec_targ	0.584639	Observer's specified target Dec [deg]
ra_nom	287.8223743535	Nominal RA [deg]
dec_nom	0.58266113488033	Nominal Dec [deg]
roll_nom	296.53780673357	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15069.999101639	Sum of GTIs [s]
livetime	13667.693725412	Livetime [s]
ontime7	15069.999101639	Sum of GTIs [s]
l2events	9885	Number of level 2 events



2 OBI

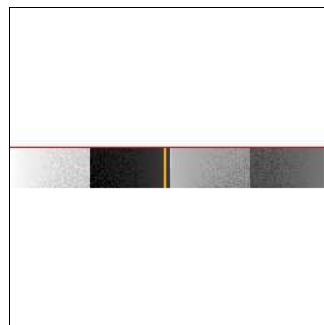
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	15069.999101639	Sum of GTIs [s]
caldsver	4.7.2	 	ontime7	15069.999101639	Sum of GTIs [s]
date	2016-11-23T04:52:36	Date and time of file creation	l1events	19049	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

	ccd 7
level 1 events	19049
rejected events	8740
rejected %	45%

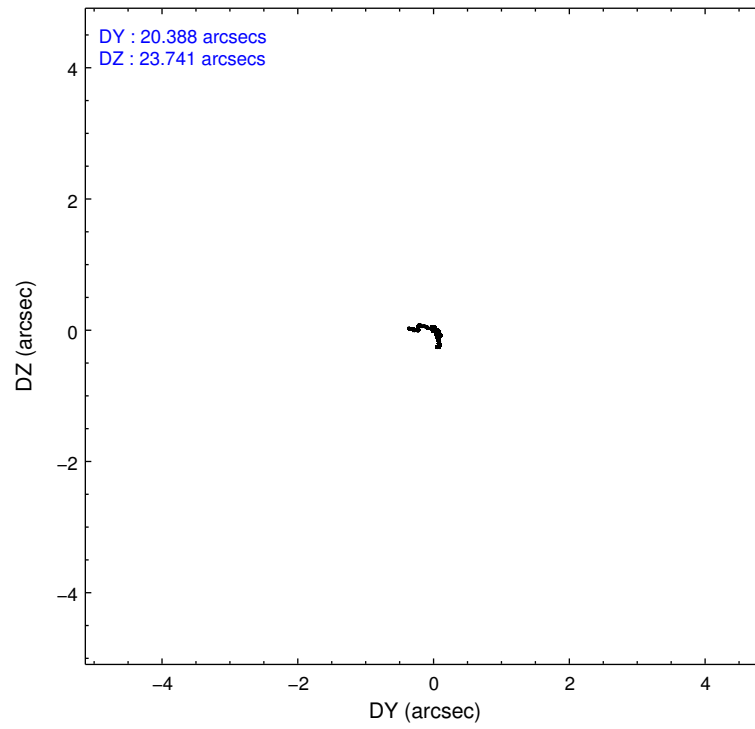
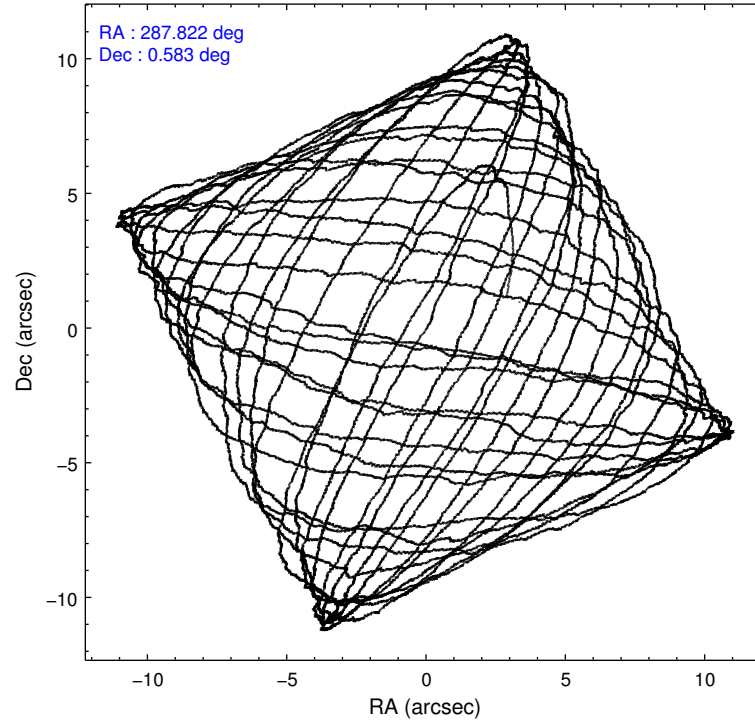
	ccd 7
grade 0 events	1300
	6%
grade 1 events	30
	0%
grade 2 events	2175
	11%
grade 3 events	1351
	7%
grade 4 events	1283
	6%
grade 5 events	1835
	9%
grade 6 events	4201
	22%
grade 7 events	6874
	36%

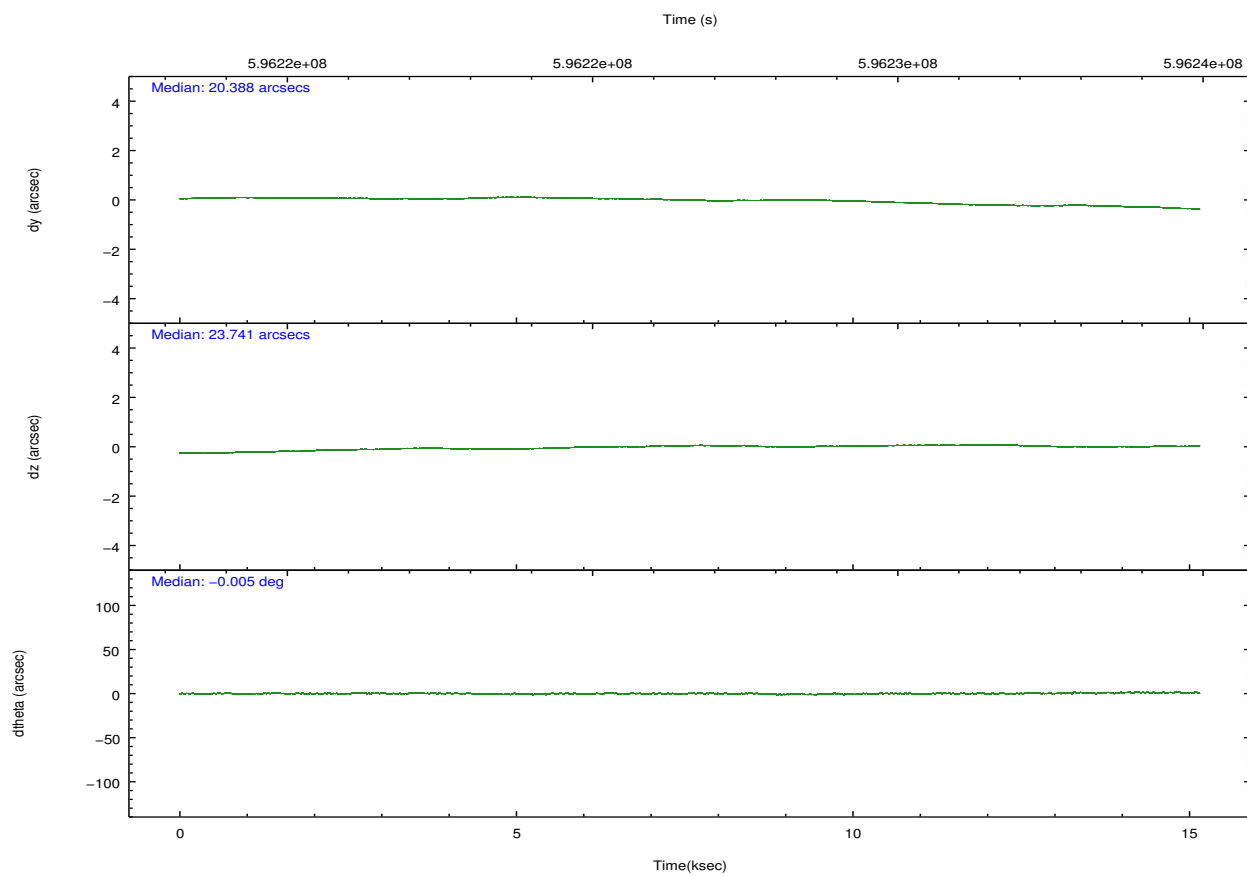
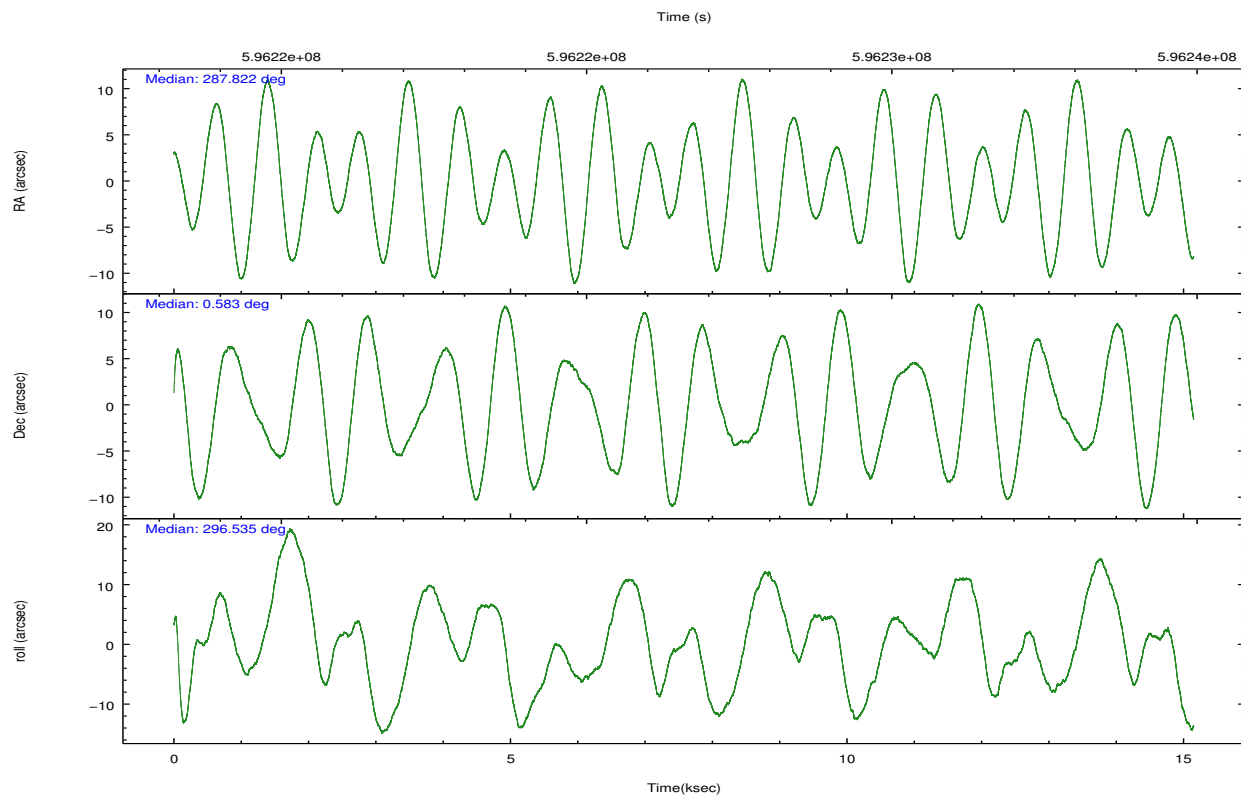
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	287.799282	287.8223743535032
[deg] Pointing Dec	0.597481	0.5826611348803326
[deg] Pointing Roll	296.381392	296.5378067335737
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	596219156.184000	596217434.26695
Observation start date	2016-11-22T16:24:48	2016-11-22T15:57:14
[s] Observation end time (MET)	596234156.184000	596235230.3179801
Observation end date	2016-11-22T20:34:48	2016-11-22T20:53:50
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	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

2.3 Aspect



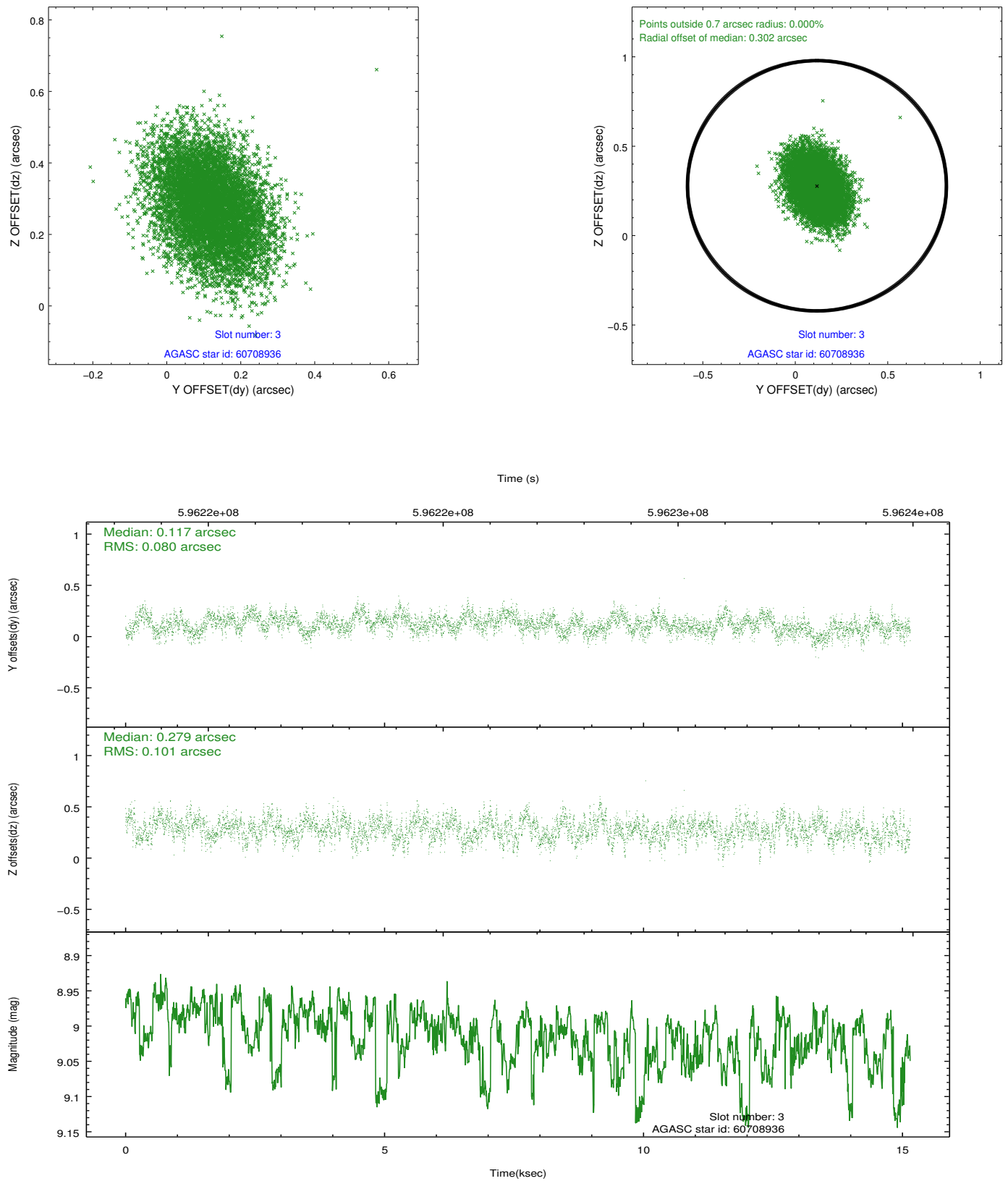


Slot Statistics

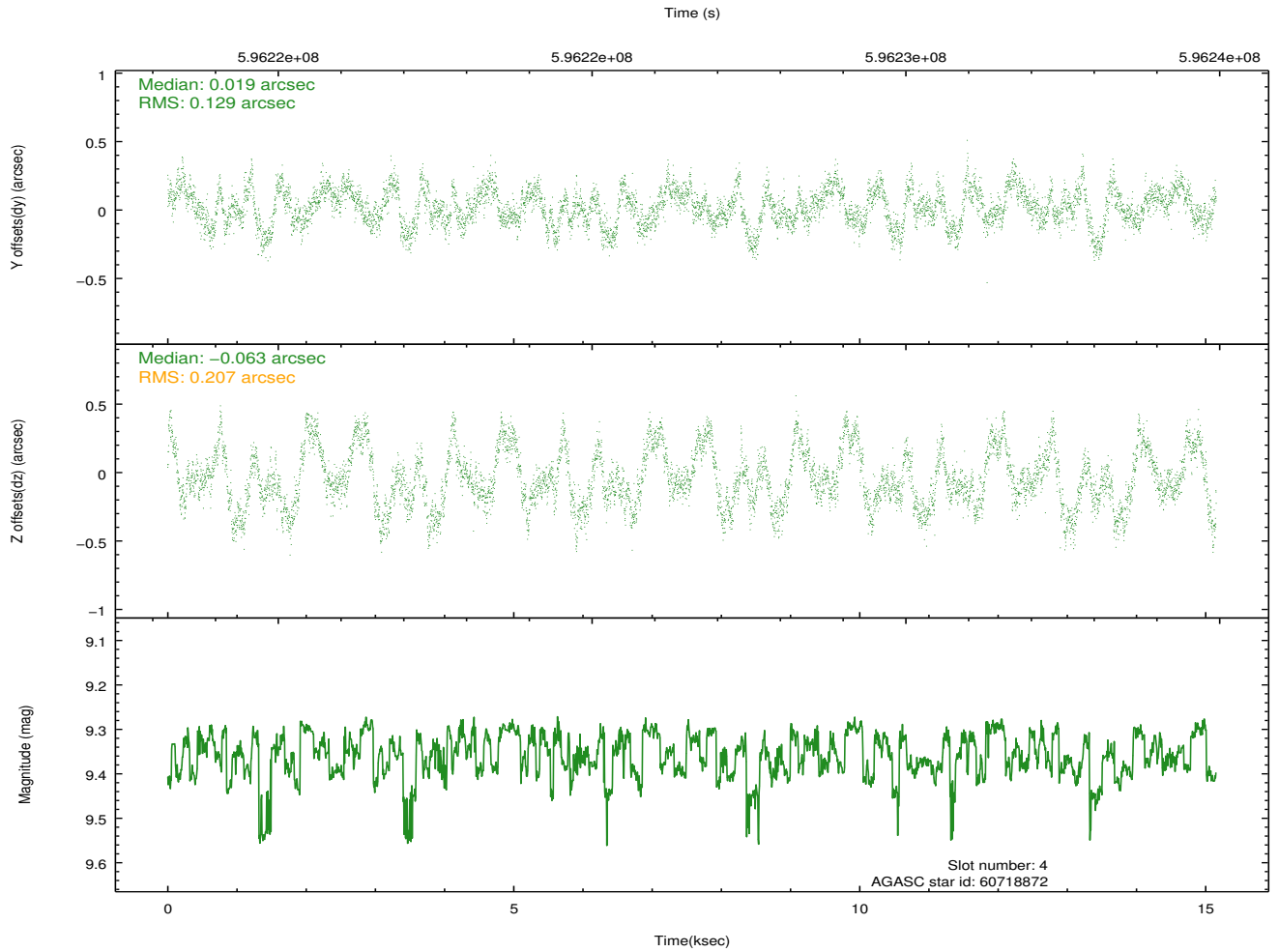
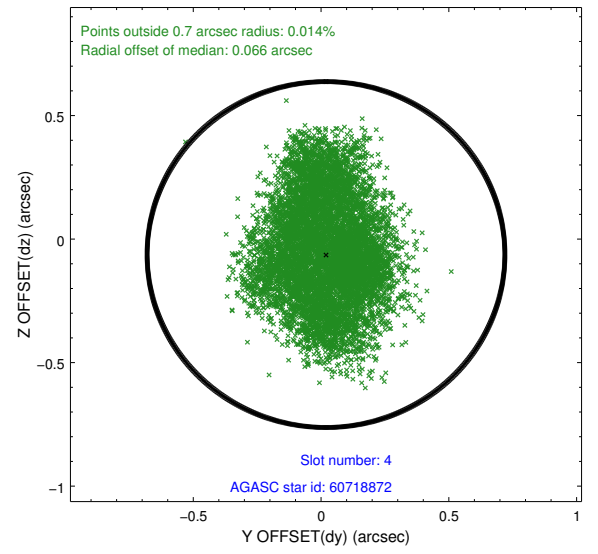
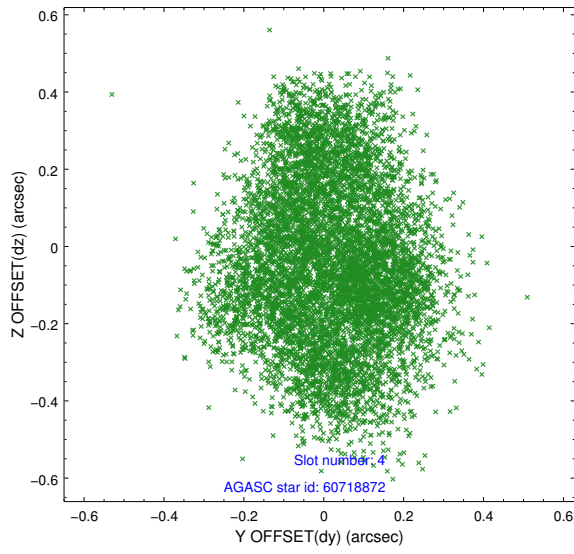
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	3696	-0.242	-0.096	0.008	0.013	0.000000	0.000000	-773.68	-1745.42
1	FID		ACIS-S-4	7.08	3695	0.457	0.142	0.006	0.012	0.000000	0.000000	2140.13	163.02
2	FID		ACIS-S-5	7.09	3696	-0.246	-0.037	0.008	0.014	0.000000	0.000000	-1826.17	156.80
3	GUIDE	used	60708936	9.01	7383	0.117	0.279	0.137	0.222	287.407925	0.924863	-1681.31	-737.94
4	GUIDE	used	60718872	9.36	7383	0.019	-0.063	0.265	0.407	287.679270	0.108754	1384.45	-1168.79
5	GUIDE	used	60712504	8.86	7380	-0.186	-0.297	0.138	0.213	288.588609	0.262689	2342.60	2010.04
6	GUIDE	used	60714680	9.87	7376	0.237	0.183	0.348	0.569	287.468055	0.176061	830.30	-1741.69
7	GUIDE	used	60711088	9.38	7388	-0.218	-0.153	0.171	0.279	288.583441	0.300705	2211.66	2053.87

2.4 Star Slots

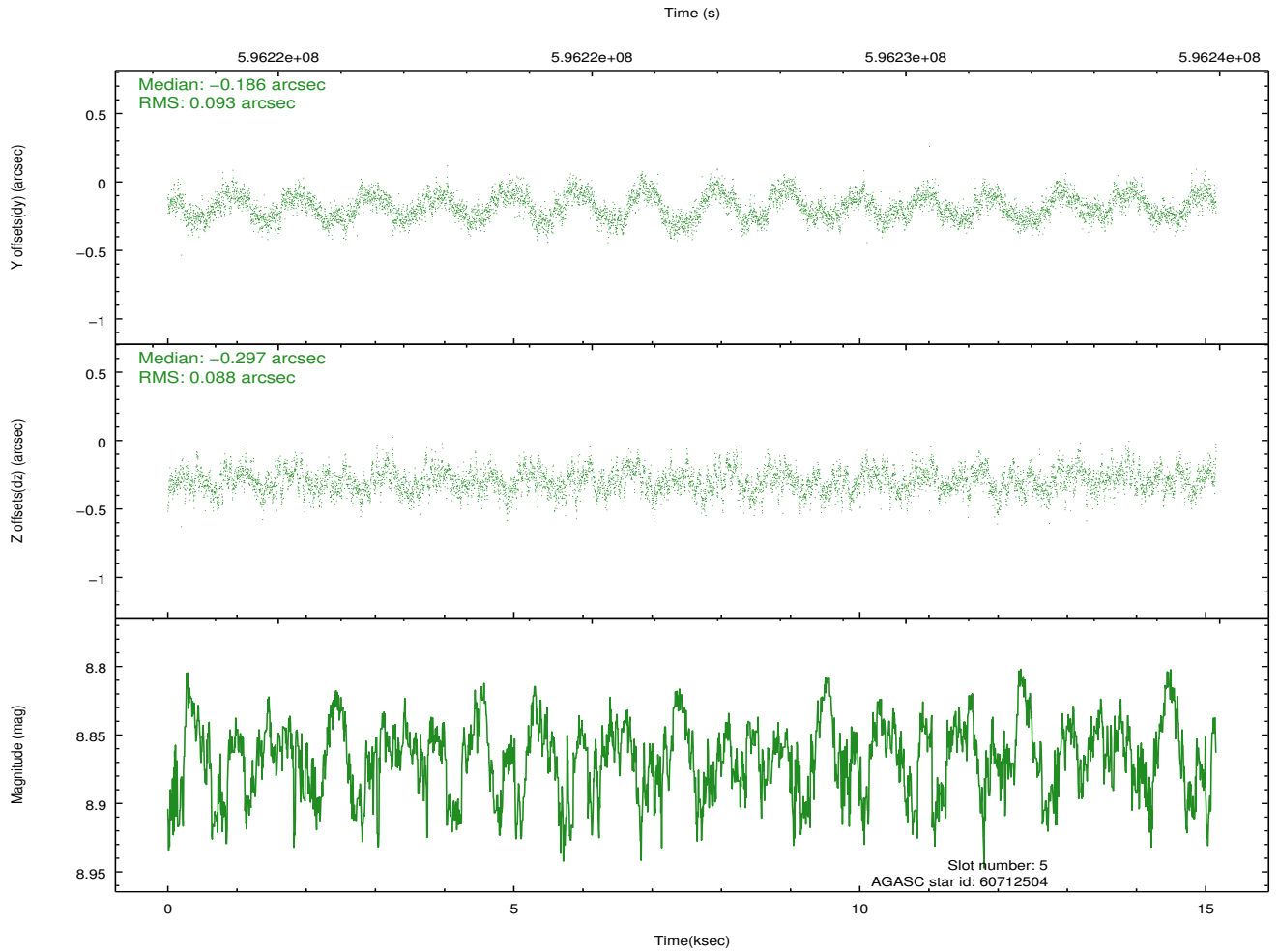
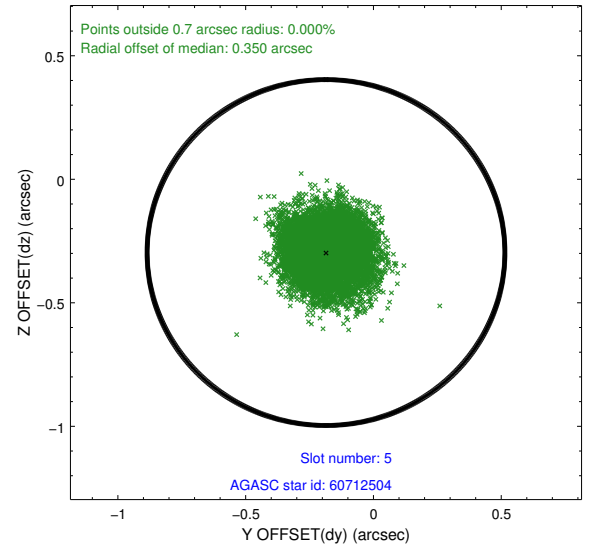
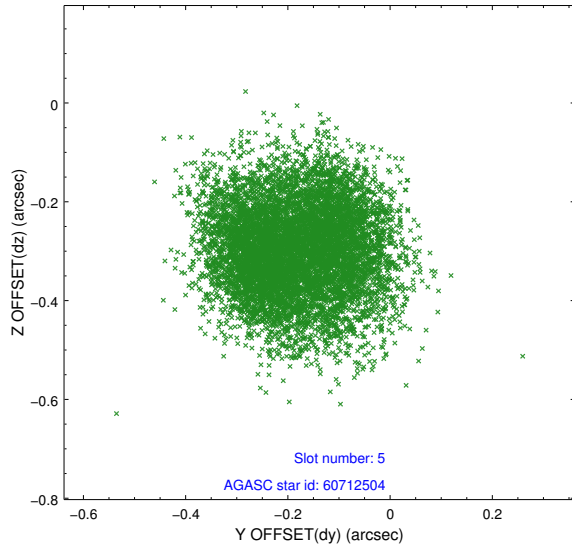
2.4.1 Slot 3



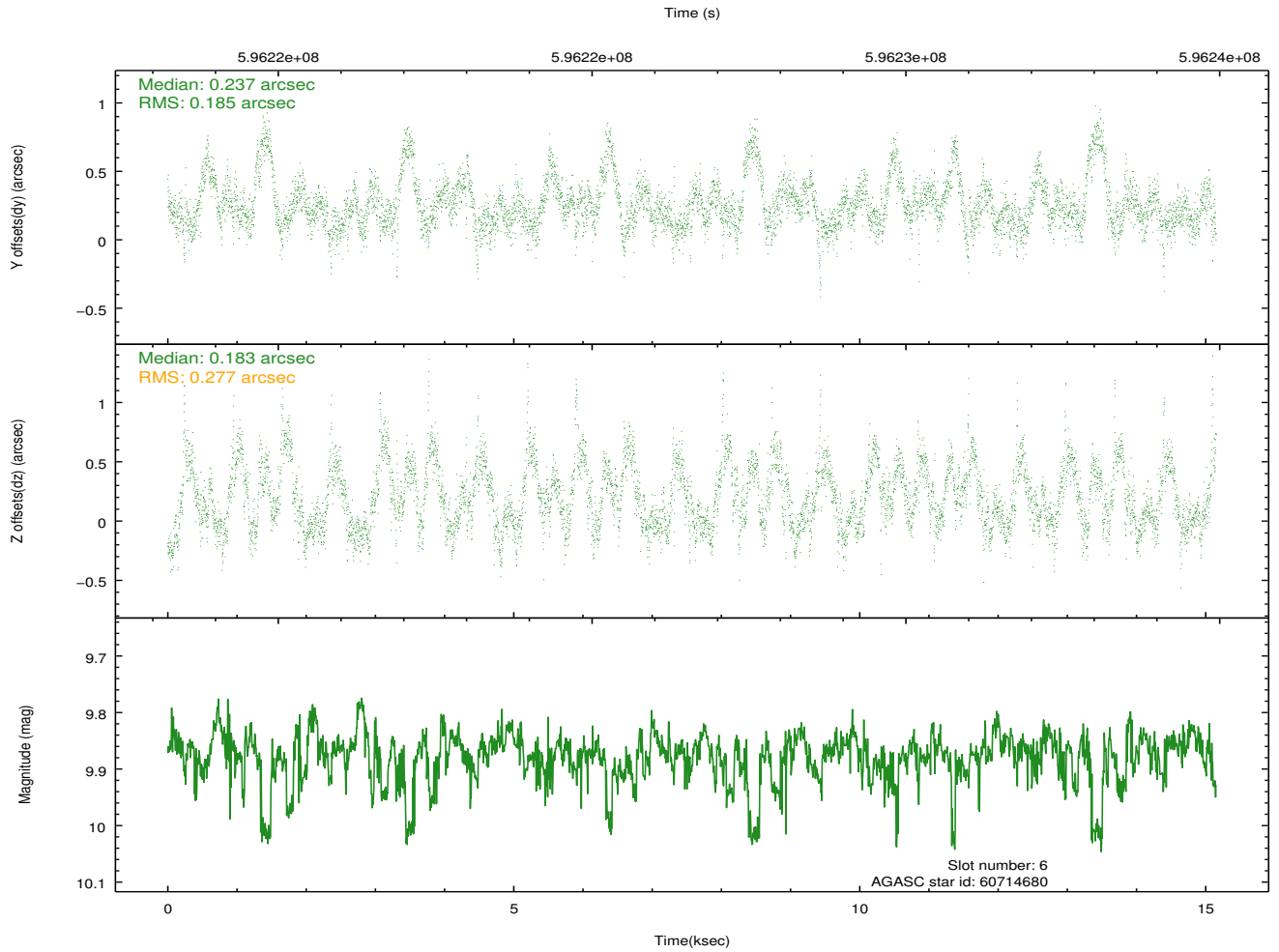
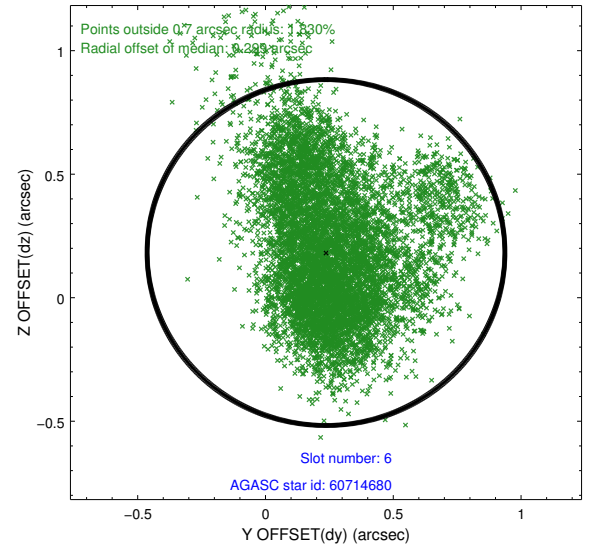
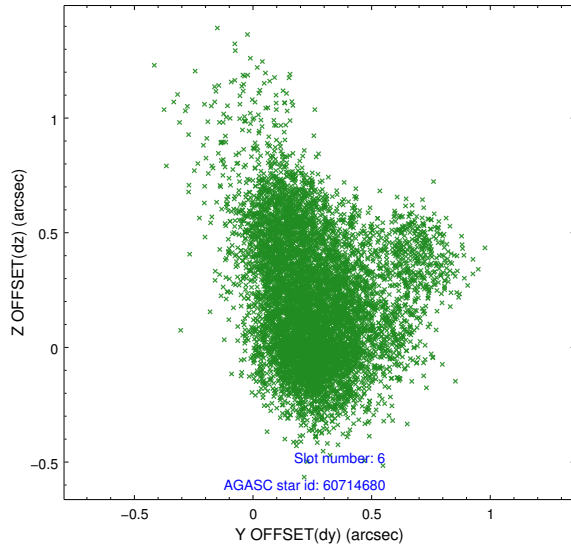
2.4.2 Slot 4



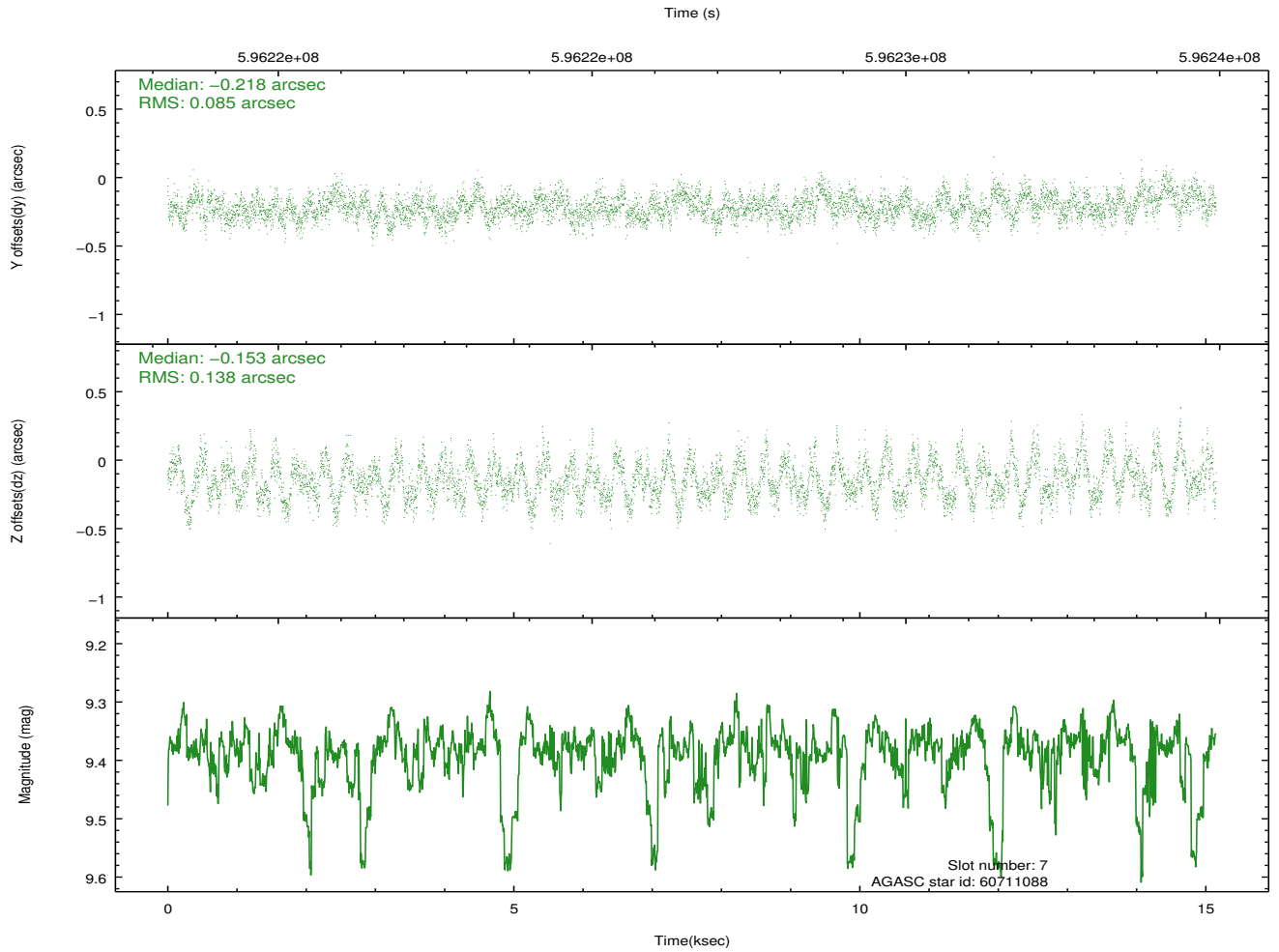
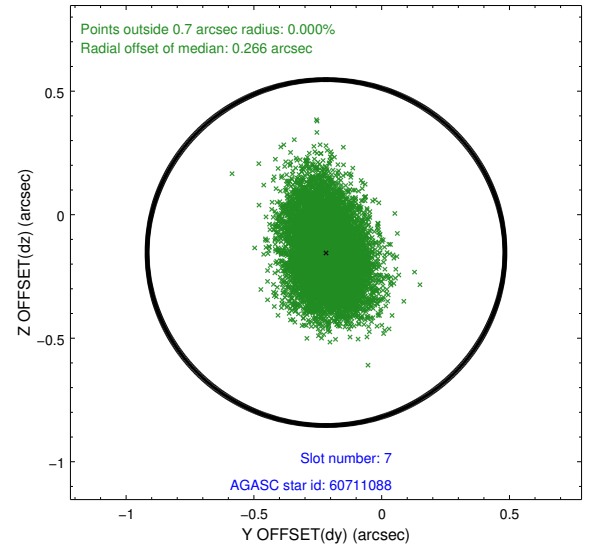
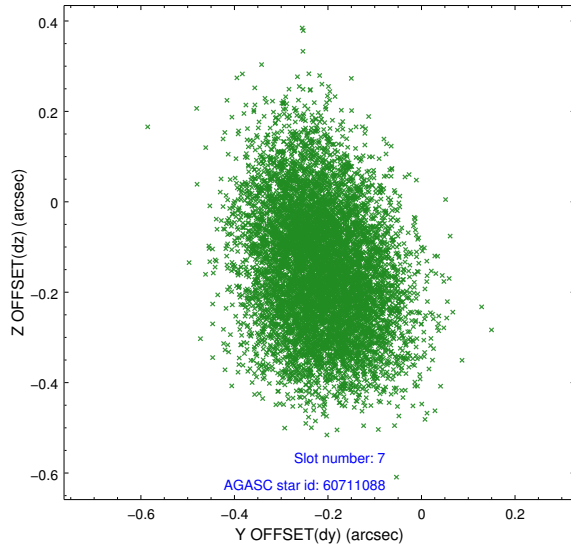
2.4.3 Slot 5



2.4.4 Slot 6

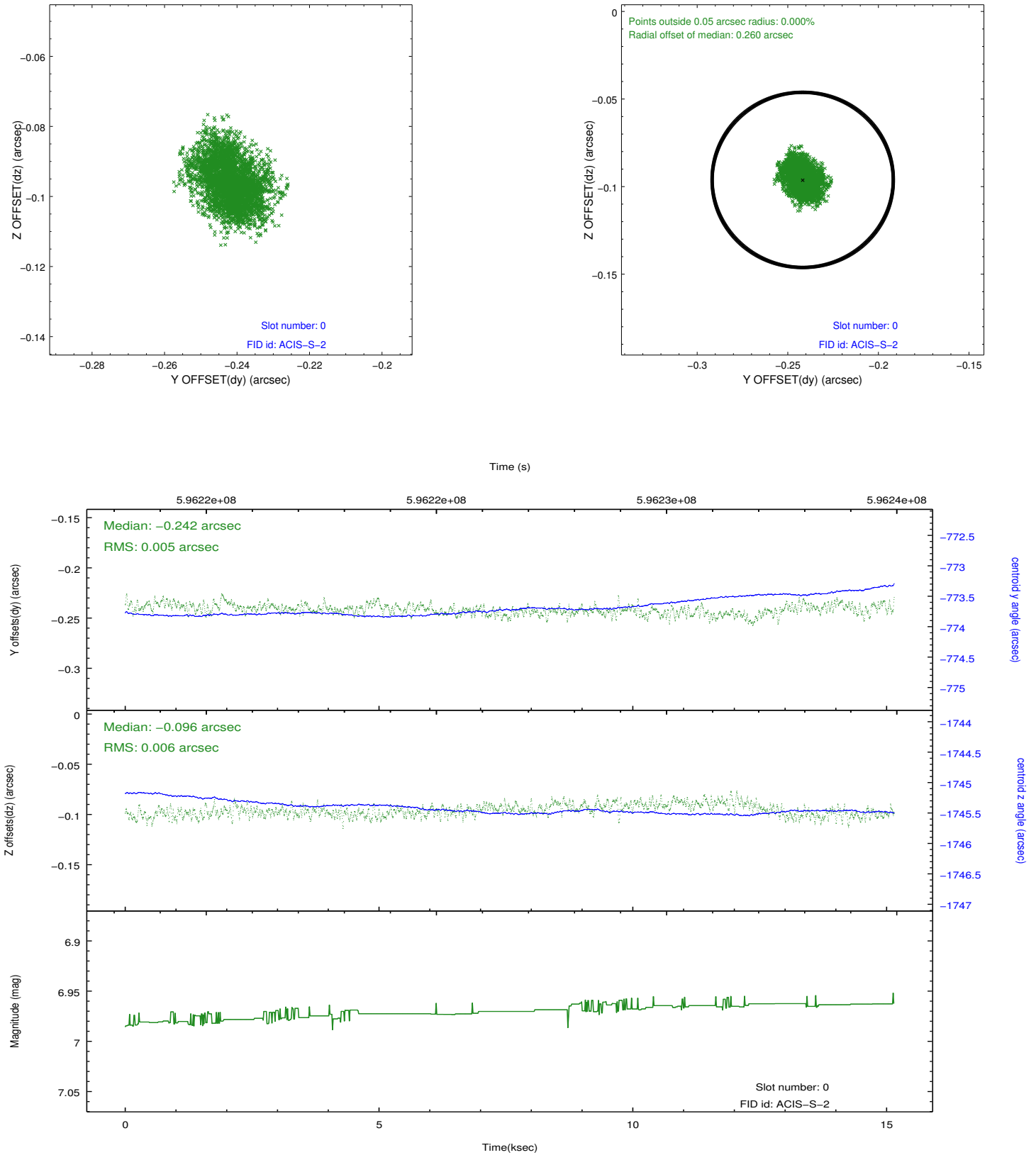


2.4.5 Slot 7

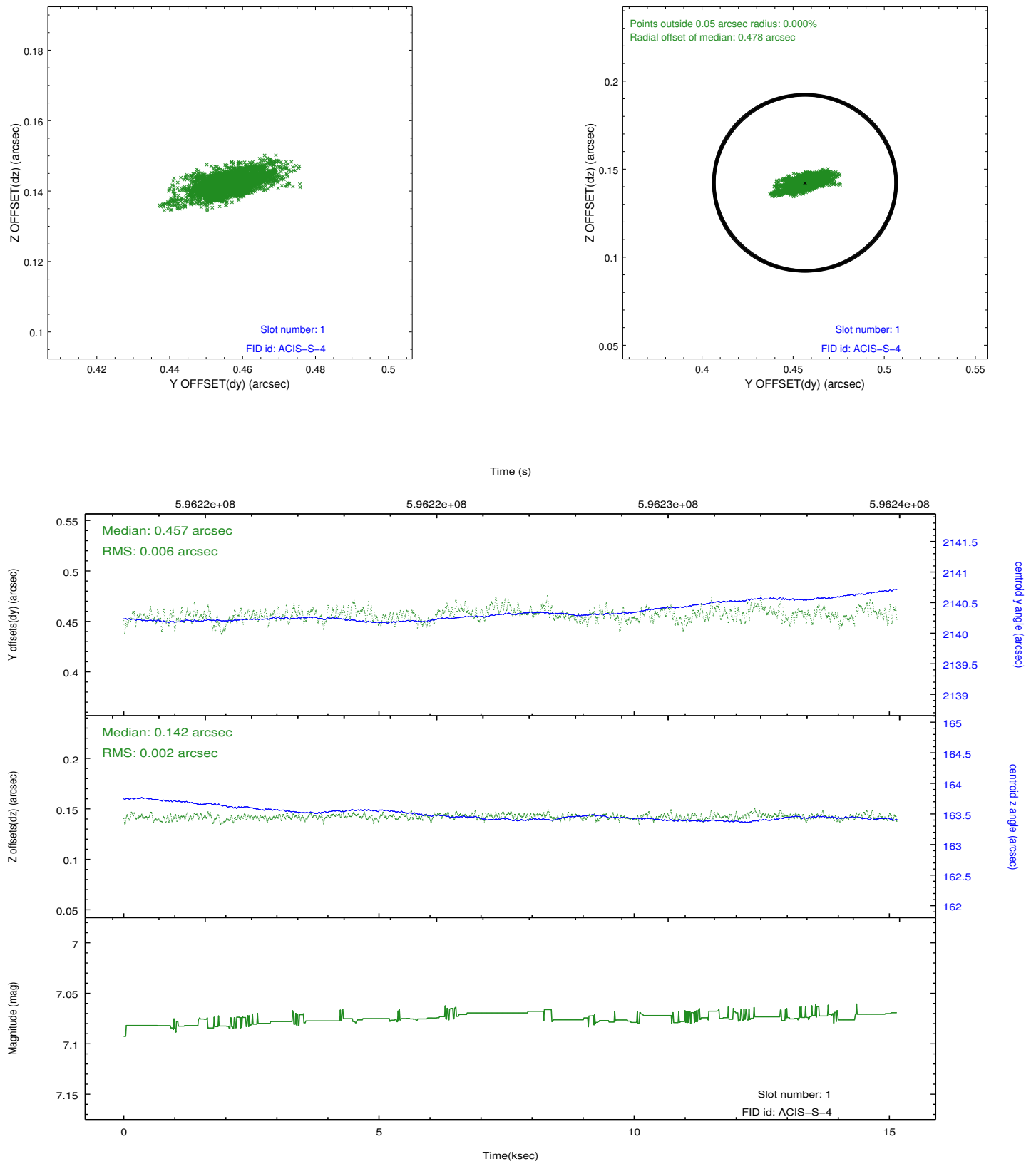


2.5 FID Slots

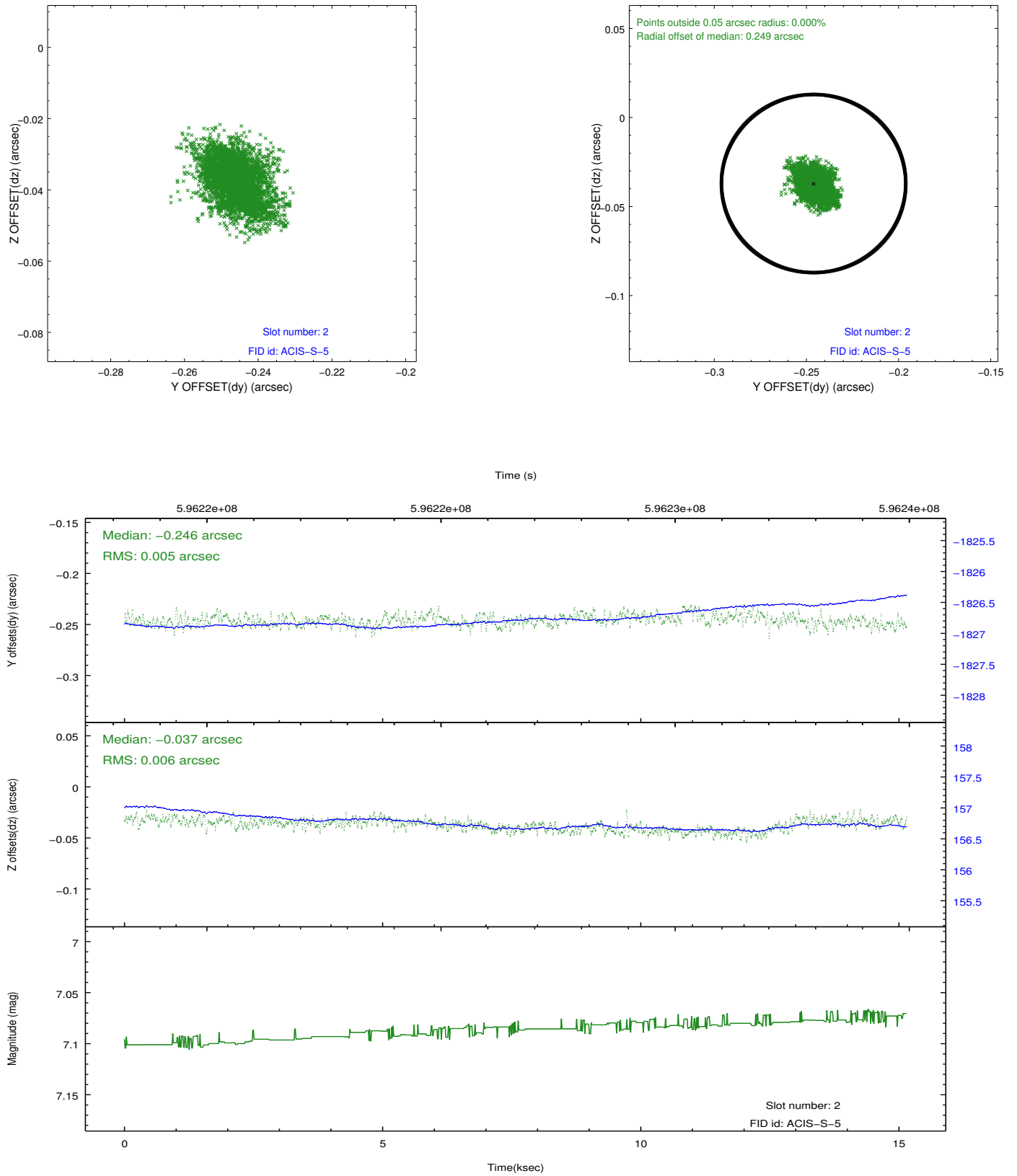
2.5.1 Slot 0



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)	2016.11.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.069999101639

A.2 Comments

Joint proposal with Swift.