

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11856 - L2 Version 2  
Chandra X-Ray Center

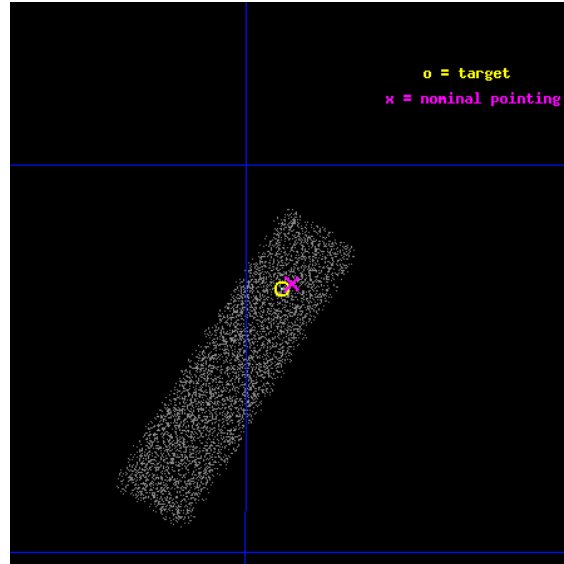
L2 Processing Date : Jun 23 2012

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# 1 Front

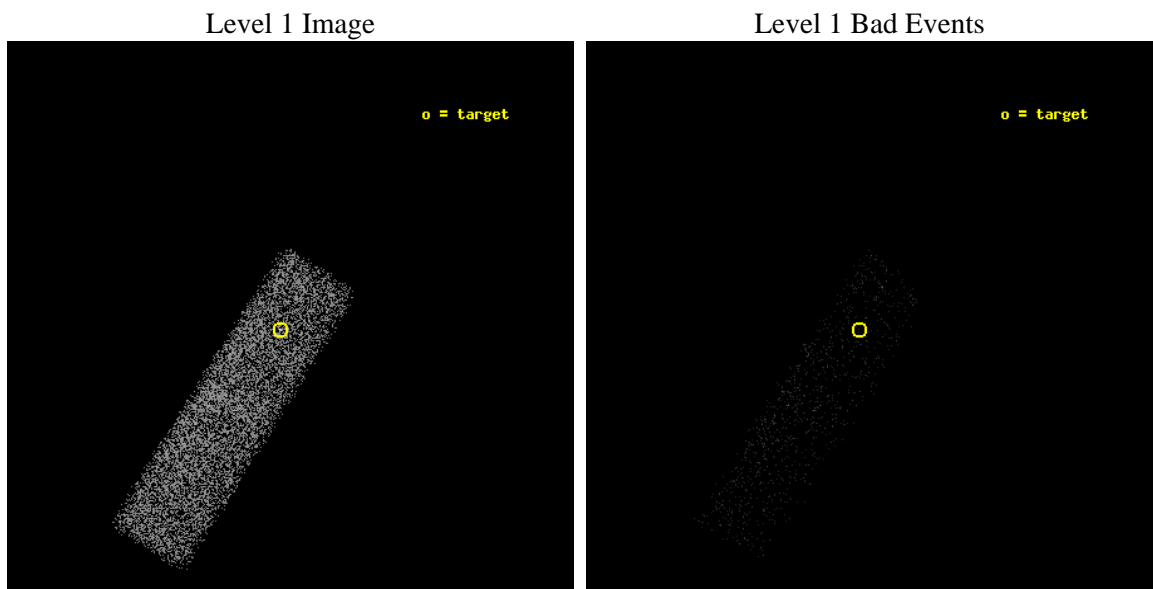
seq_num	702303	Sequence number
obs_id	11856	Observation id
title	A Survey of X-ray Variability in Bright Broad Absorption Line Quasars Over Multi-Year Timescales	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	CSO 755	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	231.474583	Observer's specified target RA [deg]
dec_targ	51.613611	Observer's specified target Dec [deg]
ra_nom	231.46757395198	Nominal RA [deg]
dec_nom	51.615728705697	Nominal Dec [deg]
roll_nom	122.22657830646	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5177.6000772119	Sum of GTIs [s]
livetime	4924.9501352724	Livetime [s]
ontime7	5177.6000772119	Sum of GTIs [s]
l2events	6062	Number of level 2 events



## 2 OBI

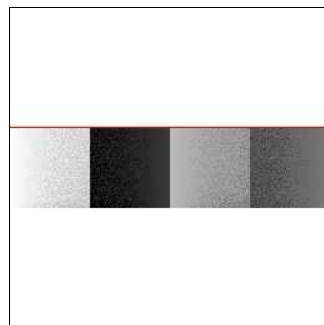
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5177.6000772119	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime7	5177.6000772119	Sum of GTIs [s]
date	2012-06-23T04:34:45	Date and time of file creation	l1events	13187	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	13187
rejected events	6901
rejected %	52%

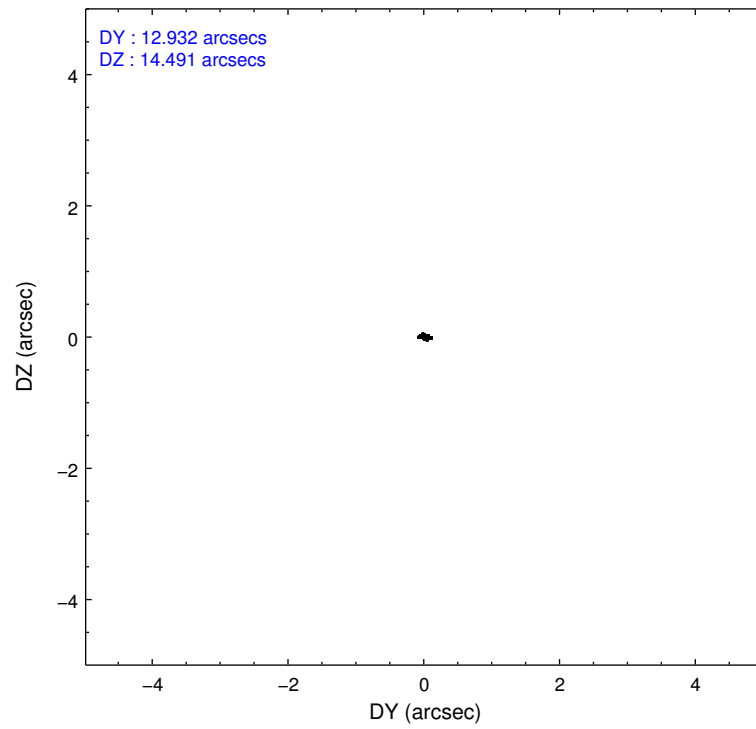
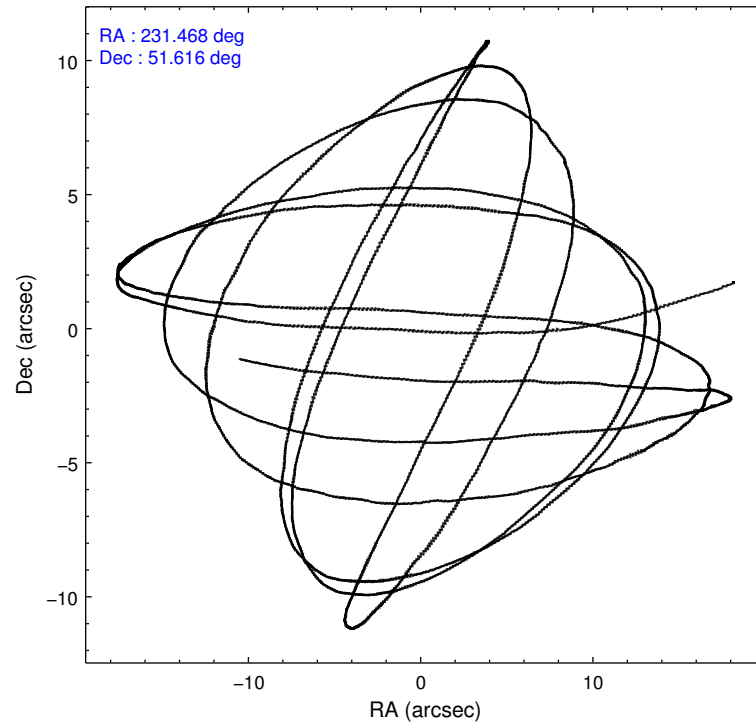
	<b>ccd 7</b>
grade 0 events	693
	5%
grade 1 events	23
	0%
grade 2 events	1371
	10%
grade 3 events	734
	5%
grade 4 events	758
	5%
grade 5 events	1413
	10%
grade 6 events	3032
	22%
grade 7 events	5163
	39%

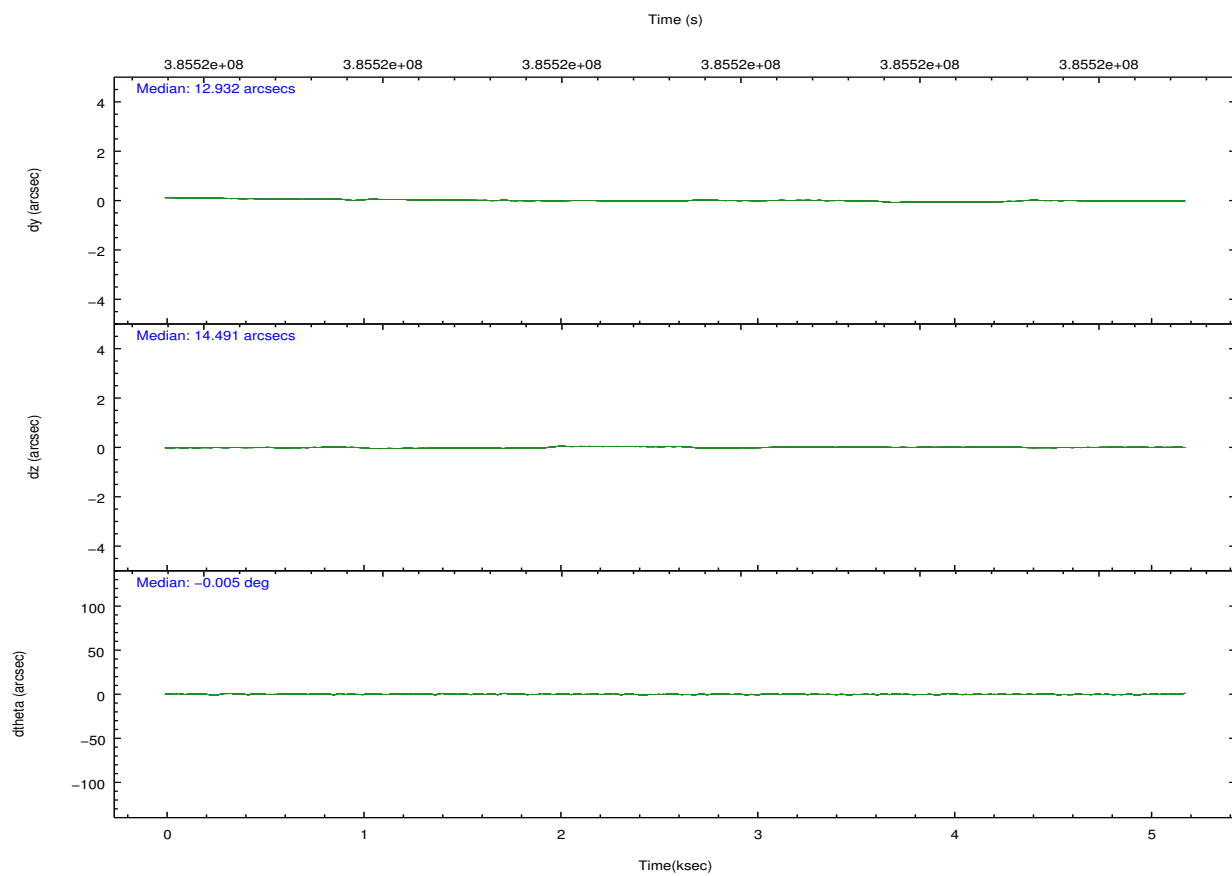
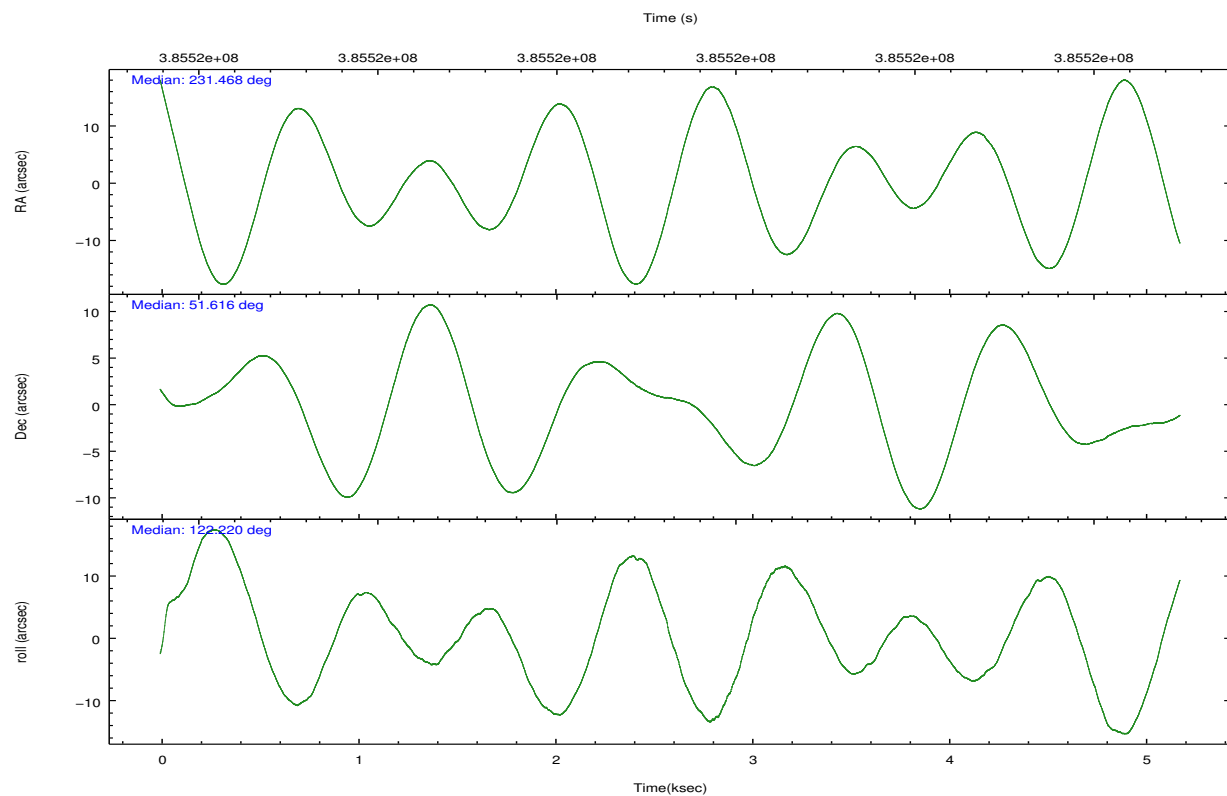


## 2.2 Compared Parameters

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	231.506797	231.4675739519827	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	51.603320	51.61572870569688	Subarray start row	385	385
[deg] Pointing Roll	122.039223	122.2265783064609	Subarray row count	256	256
[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	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	385519209.184000	385518404.23261			
Observation start date	2010-03-21T00:39:03	2010-03-21T00:26:44			
[s] Observation end time (MET)	385524209.184000	385525670.97048			
Observation end date	2010-03-21T02:02:23	2010-03-21T02:27:50			
Read mode	TIMED	TIMED			

## 2.3 Aspect



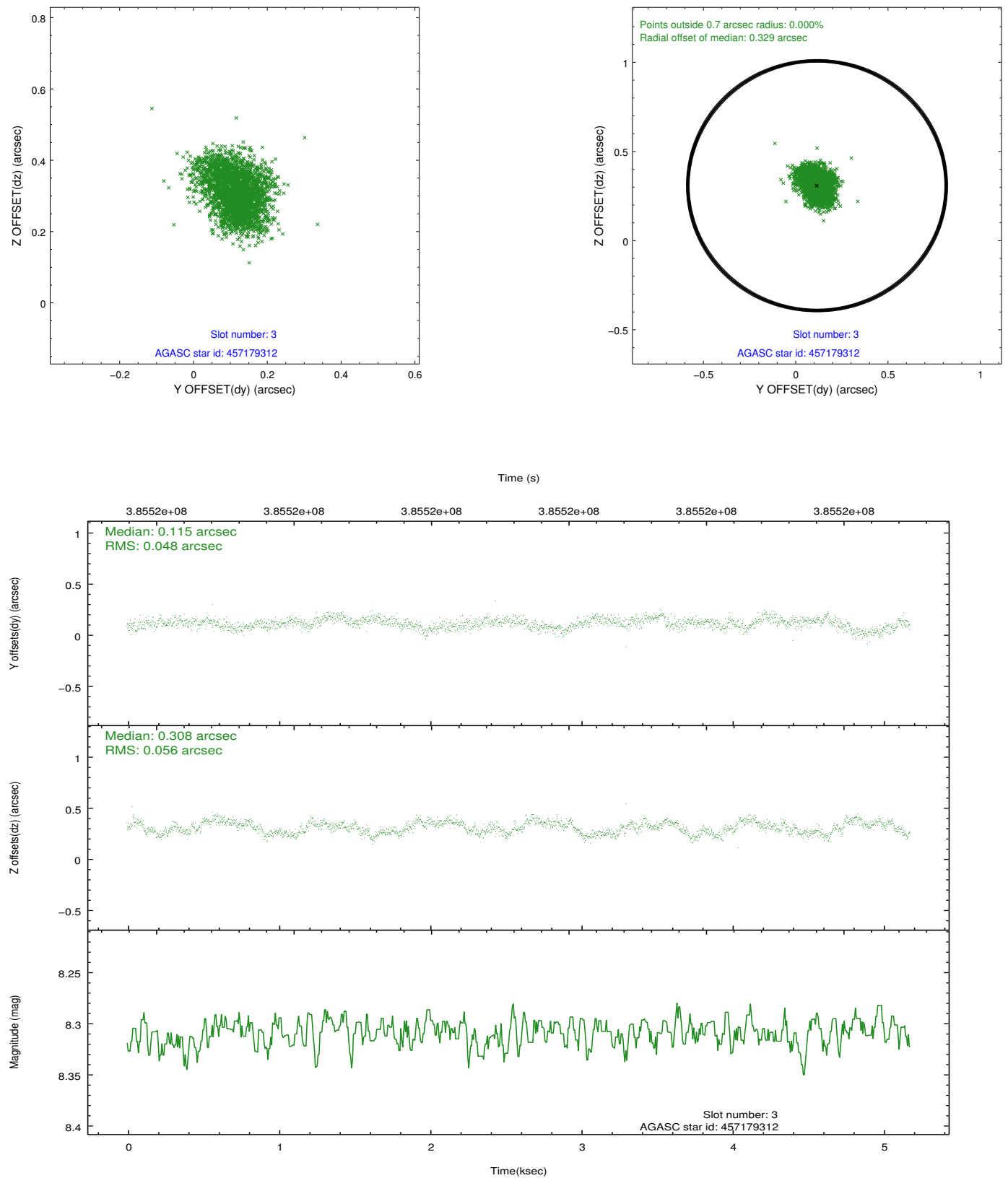


### Slot Statistics

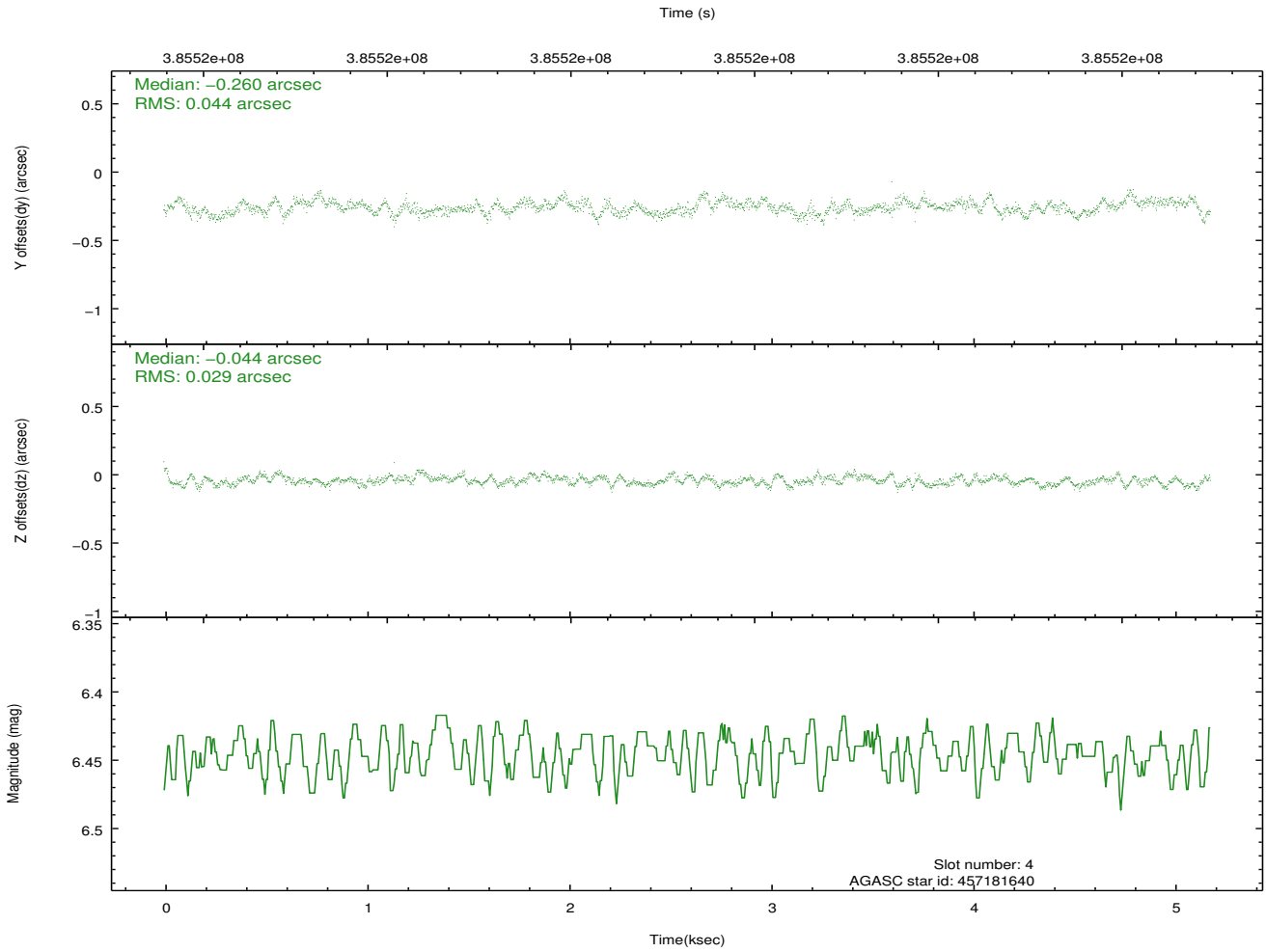
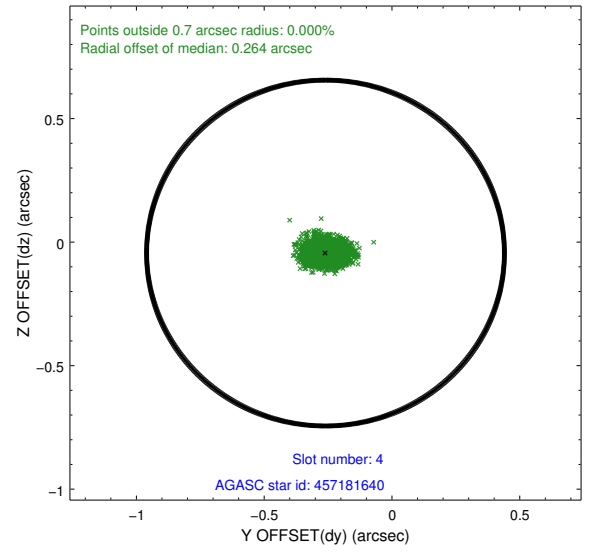
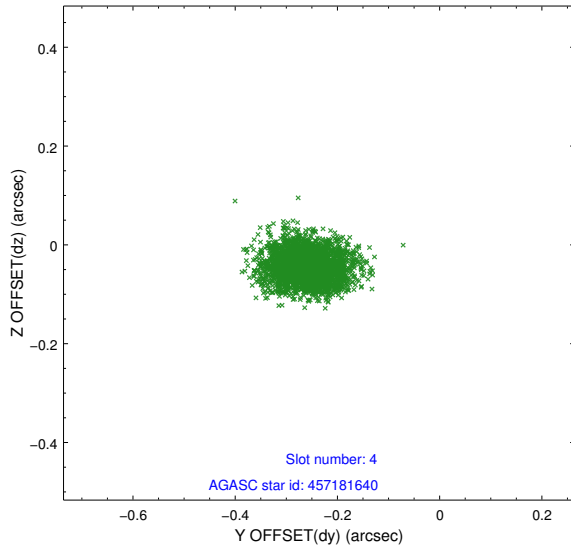
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.97	1264	-0.057	-0.058	0.007	0.011	0.000000	0.000000	-765.88	-1735.93
1	FID	ACIS-S-4	7.06	1264	0.201	0.043	0.006	0.011	0.000000	0.000000	2147.09	171.49
2	FID	ACIS-S-5	7.09	1264	-0.175	0.024	0.007	0.011	0.000000	0.000000	-1817.37	166.41
3	GUIDE	457179312	8.31	2527	0.115	0.308	0.080	0.125	231.195614	51.666918	564.38	467.52
4	GUIDE	457181640	6.45	2528	-0.260	-0.044	0.056	0.092	231.617187	52.052567	1242.15	-1064.52
5	GUIDE	457183280	9.05	2522	0.100	-0.043	0.091	0.145	231.986527	51.582040	-630.37	-872.31
6	GUIDE	457184864	8.98	2527	0.068	-0.065	0.091	0.146	231.208678	51.210238	-841.68	1319.83
7	GUIDE	457187064	9.52	2511	-0.018	-0.156	0.103	0.169	231.505890	51.363686	-730.73	460.18

## 2.4 Star Slots

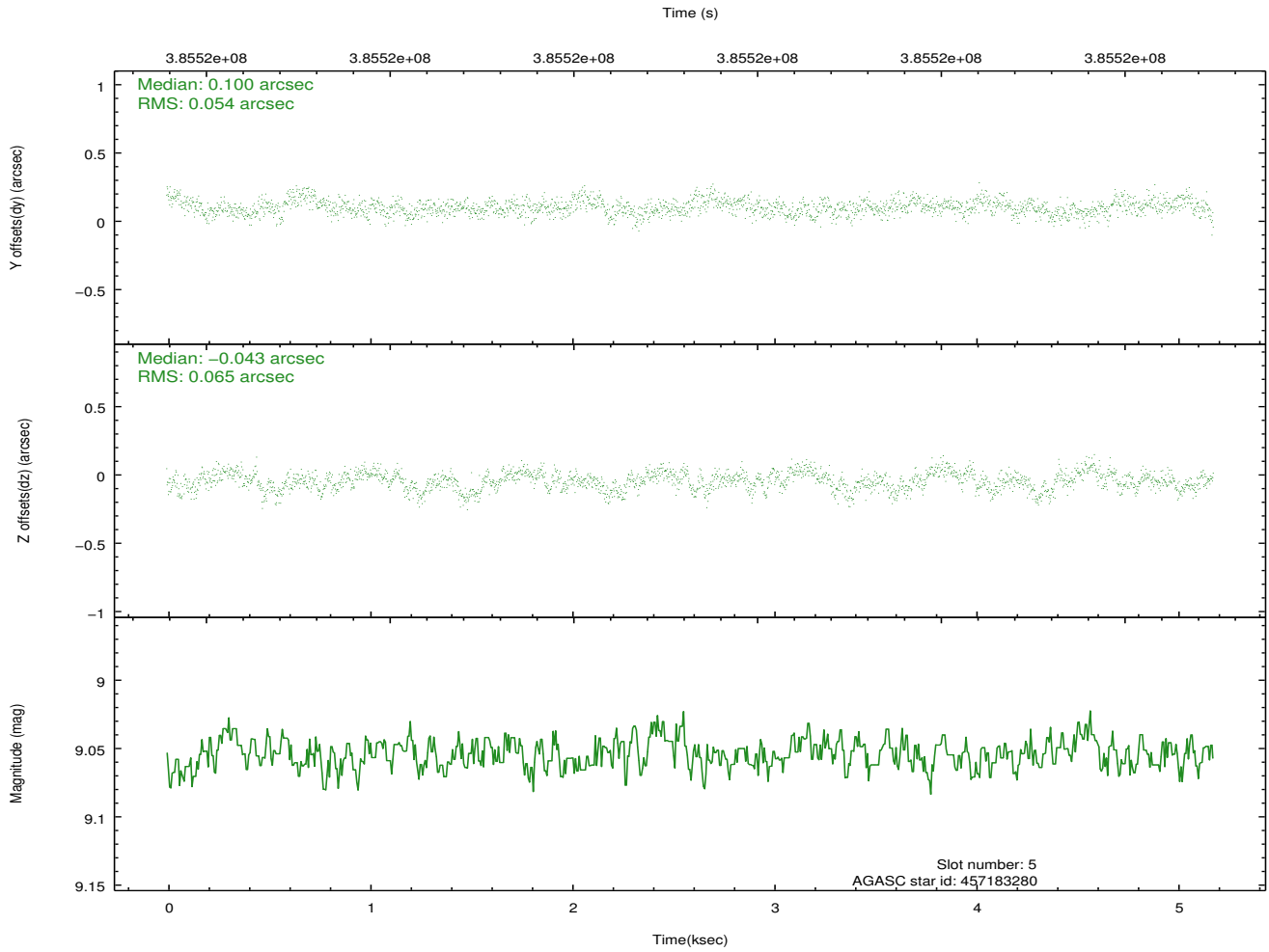
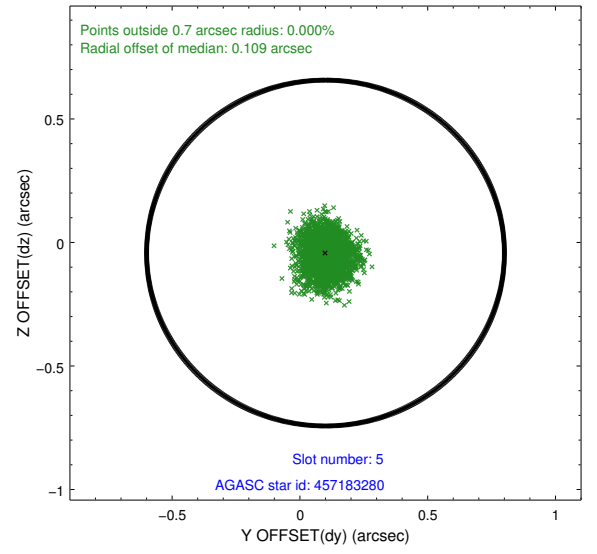
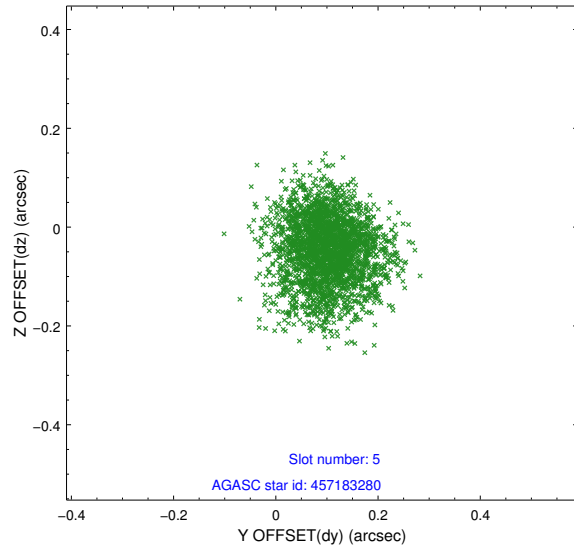
### 2.4.1 Slot 3



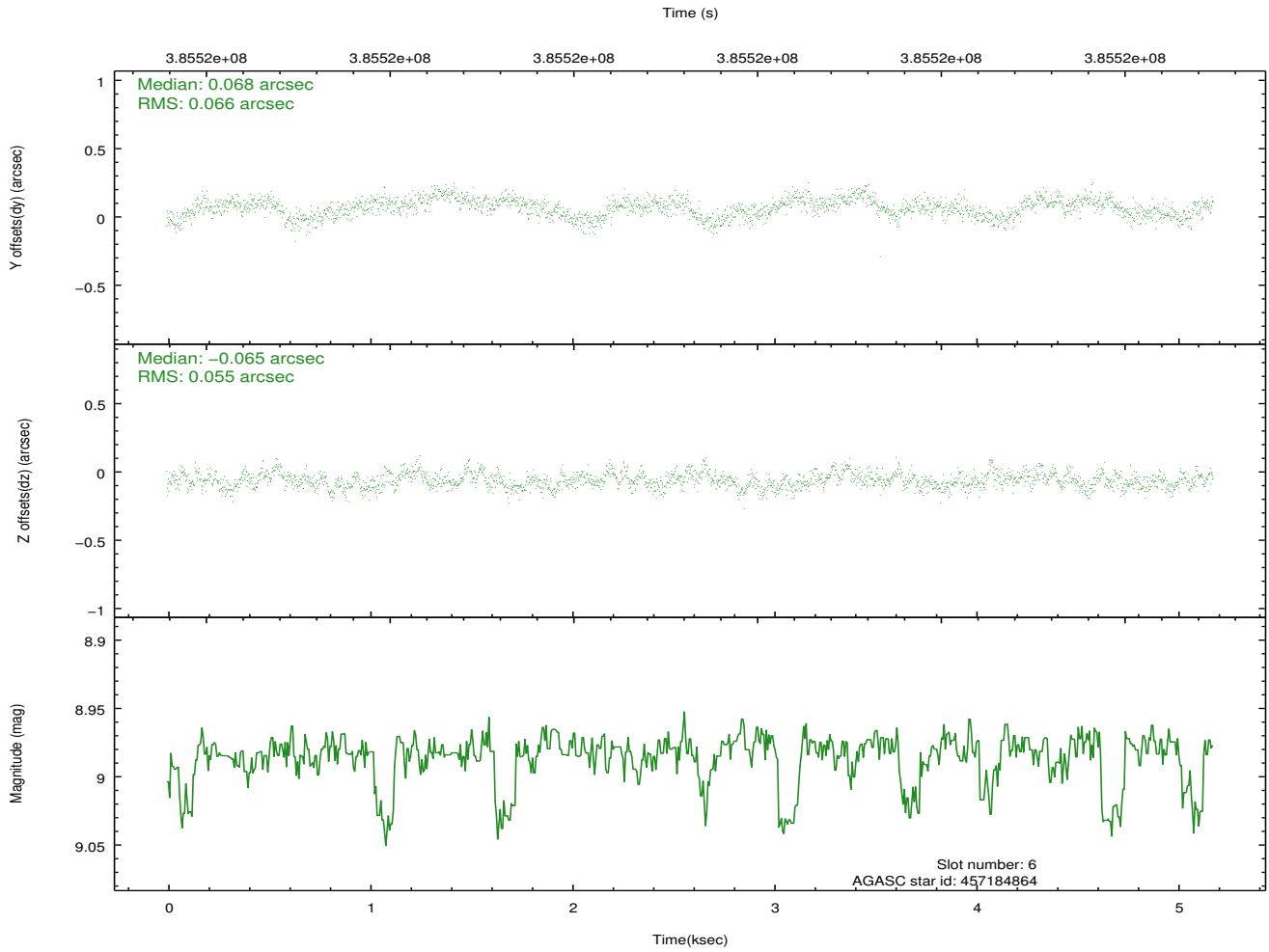
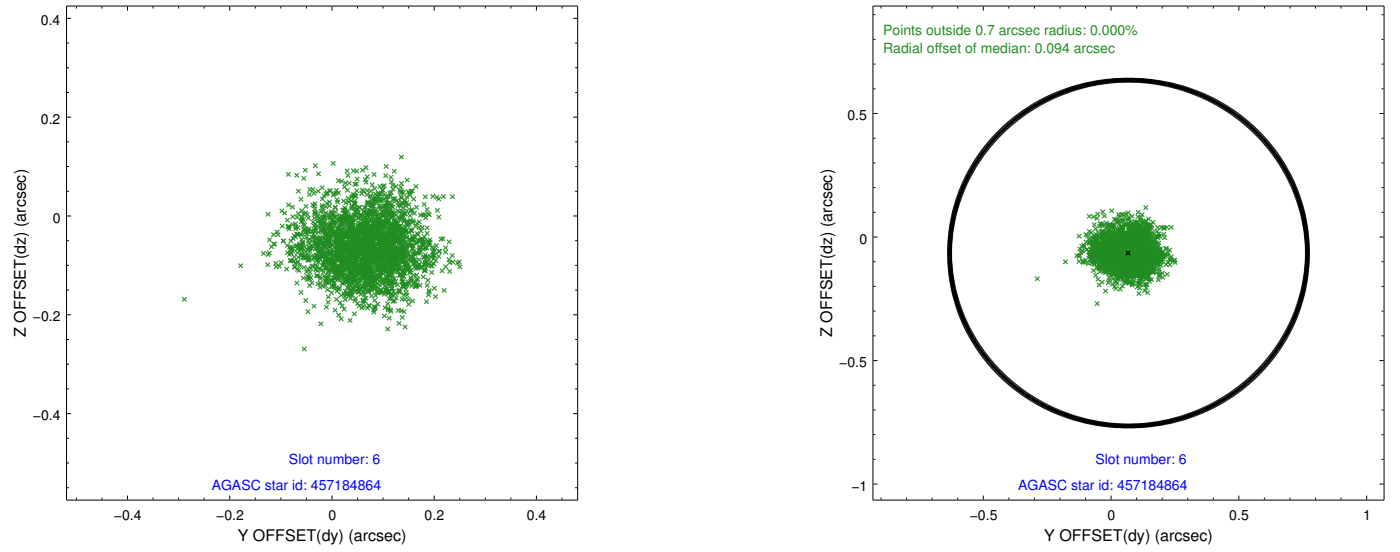
## 2.4.2 Slot 4



### 2.4.3 Slot 5

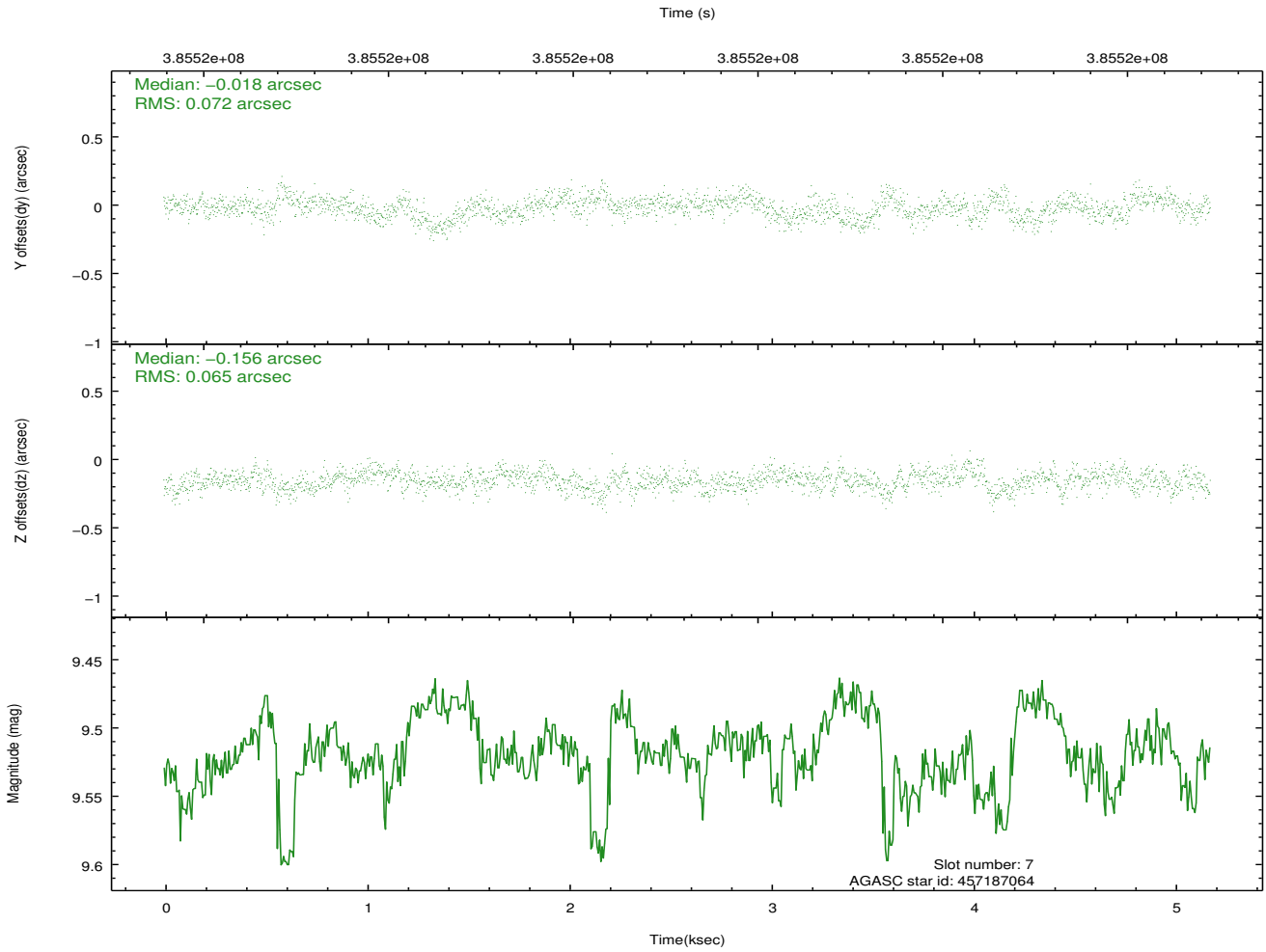
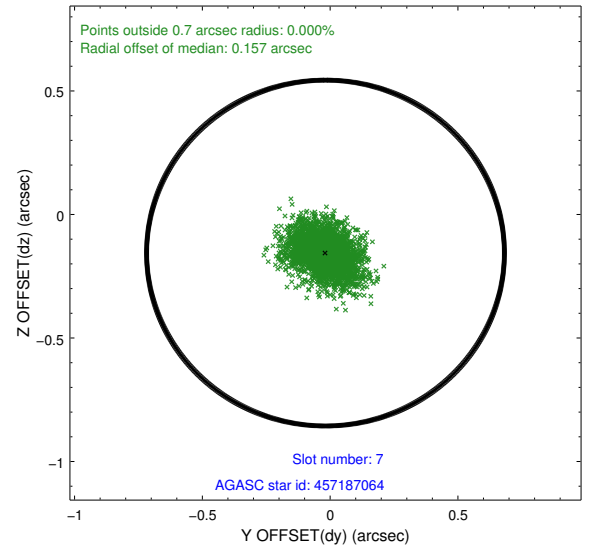
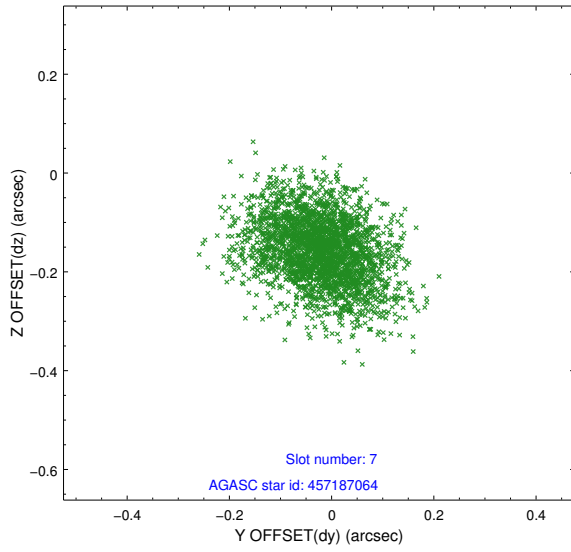


## 2.4.4 Slot 6



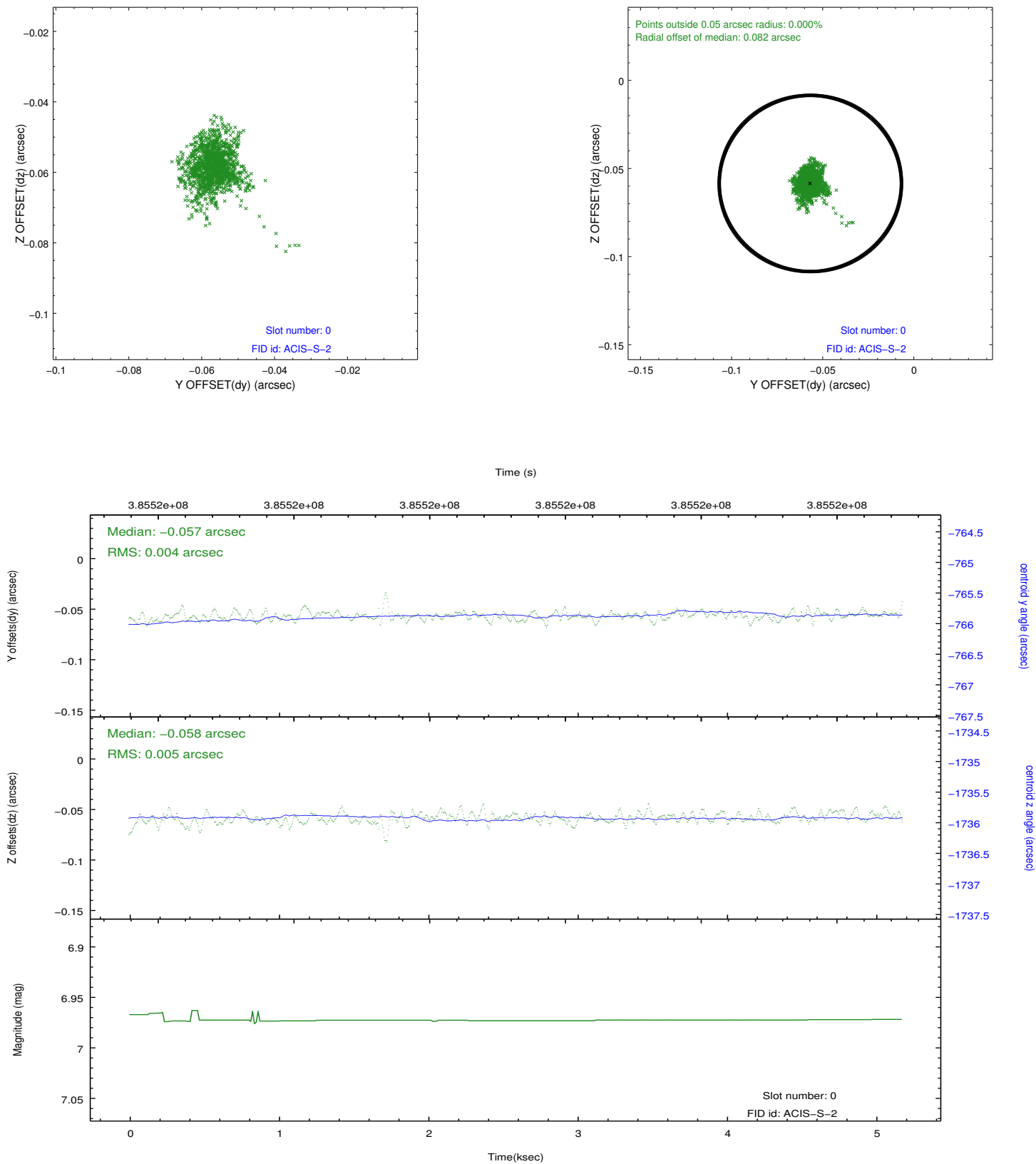


## 2.4.5 Slot 7

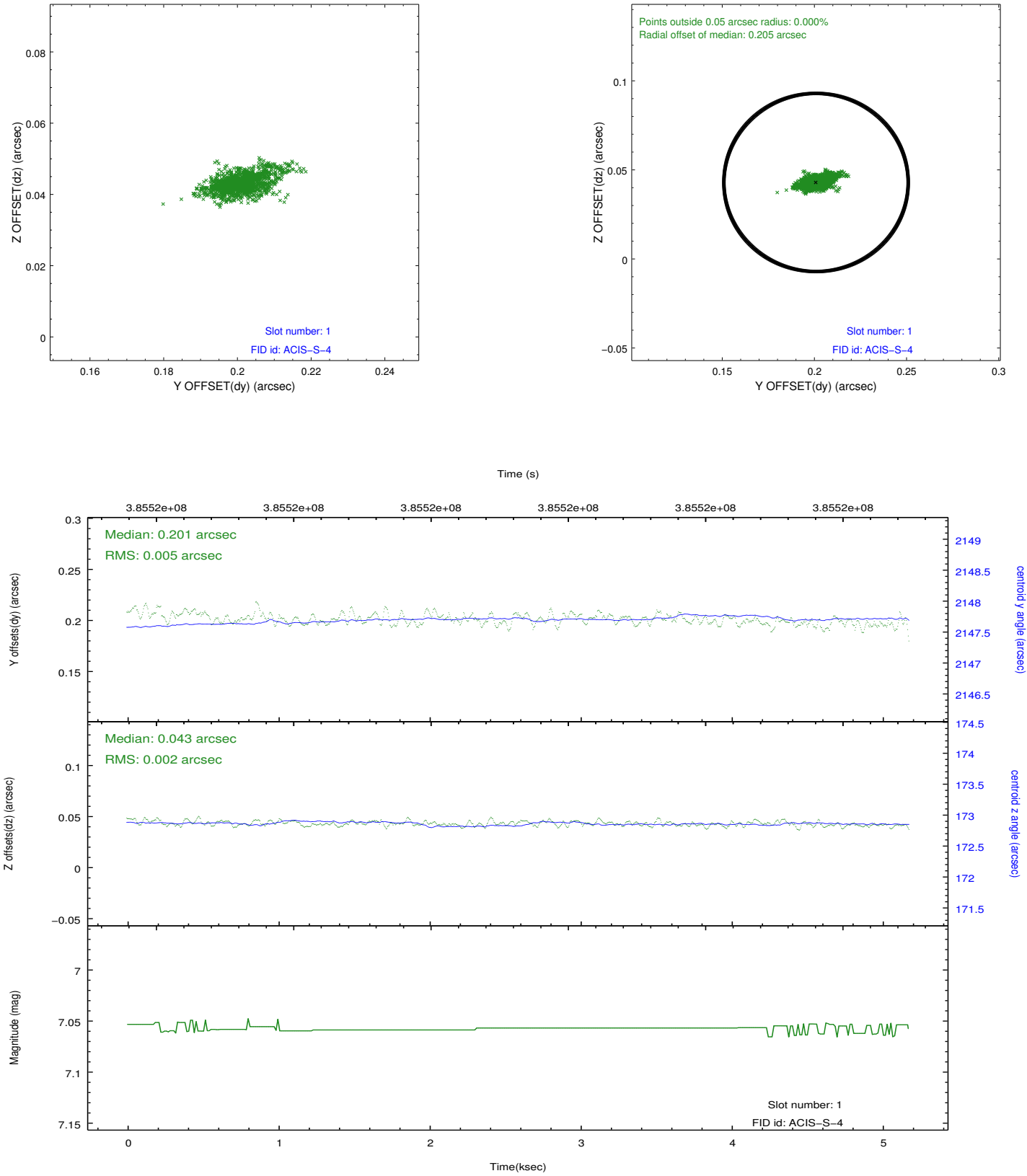


## 2.5 FID Slots

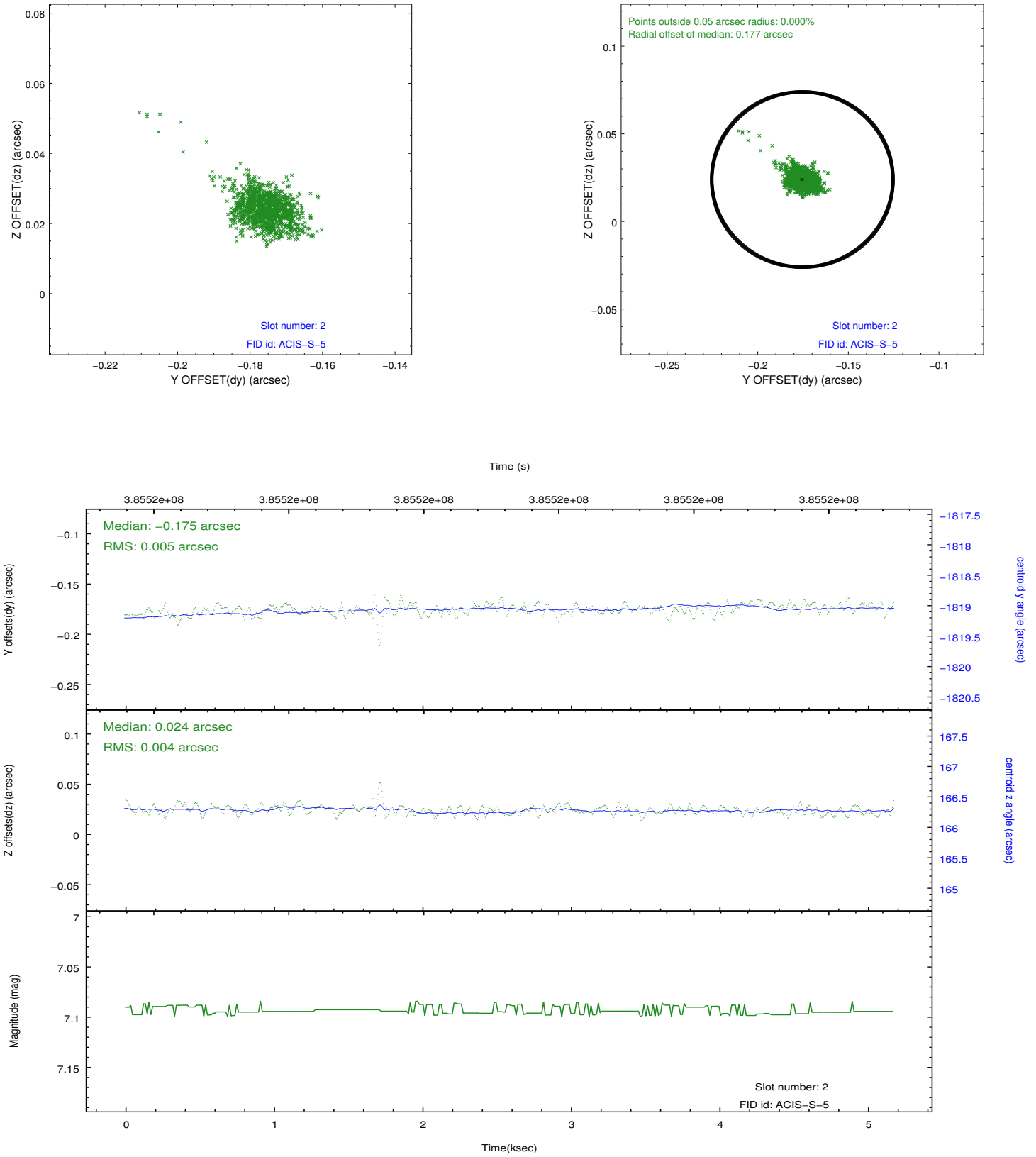
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1776000772119

### A.2 Comments