

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 14360 - L2 Version 2  
Chandra X-Ray Center

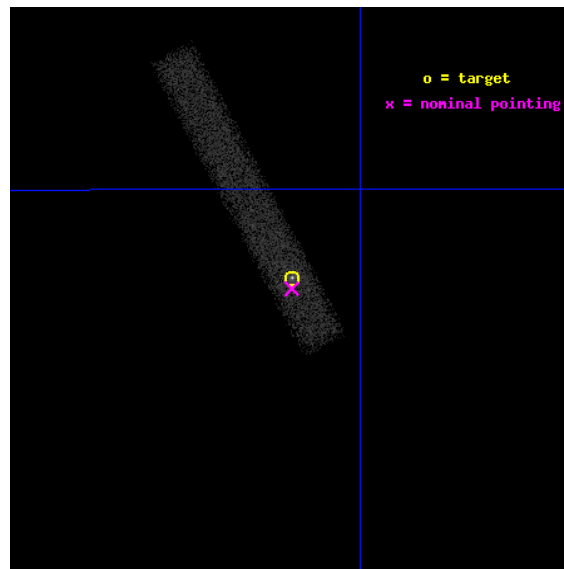
L2 Processing Date : Mar 2 2012

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# 1 Front

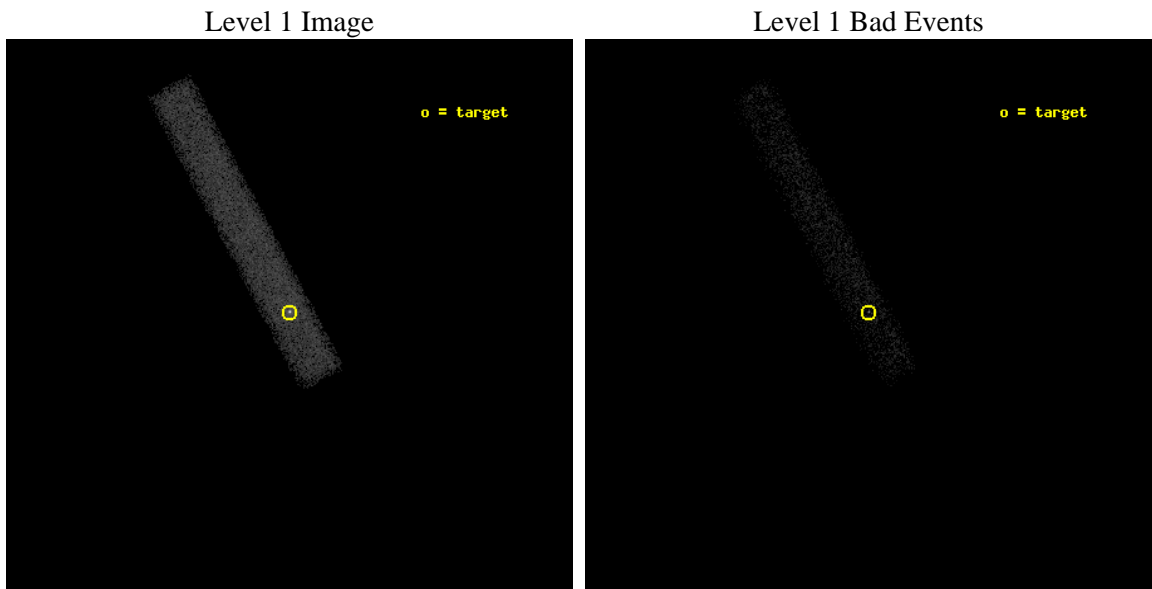
seq_num	501792	Sequence number
obs_id	14360	Observation id
title	Studying the physics of outbursts in the Westerlund 1 transient magnetar laboratory	Proposal title
observer	Dr. Gianluca Israel	Principal investigator
object	CXOU J164710.2-455216	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.7925	Observer's specified target RA [deg]
dec_targ	-45.871361	Observer's specified target Dec [deg]
ra_nom	251.79292708962	Nominal RA [deg]
dec_nom	-45.876203764569	Nominal Dec [deg]
roll_nom	241.90750573121	Nominal Roll [deg]
revision	2	Processing version of data
ontime	21010.349075675	Sum of GTIs [s]
livetime	19055.277594481	Livetime [s]
ontime7	21010.349075675	Sum of GTIs [s]
l2events	18502	Number of level 2 events



## 2 OBI

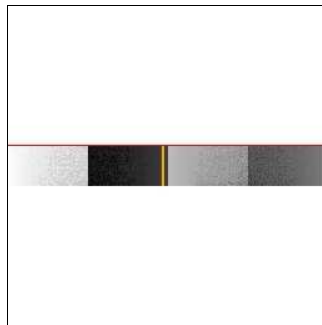
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	21010.349075675	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime7	21010.349075675	Sum of GTIs [s]
date	2012-03-02T13:02:41	Date and time of file creation	l1events	31557	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

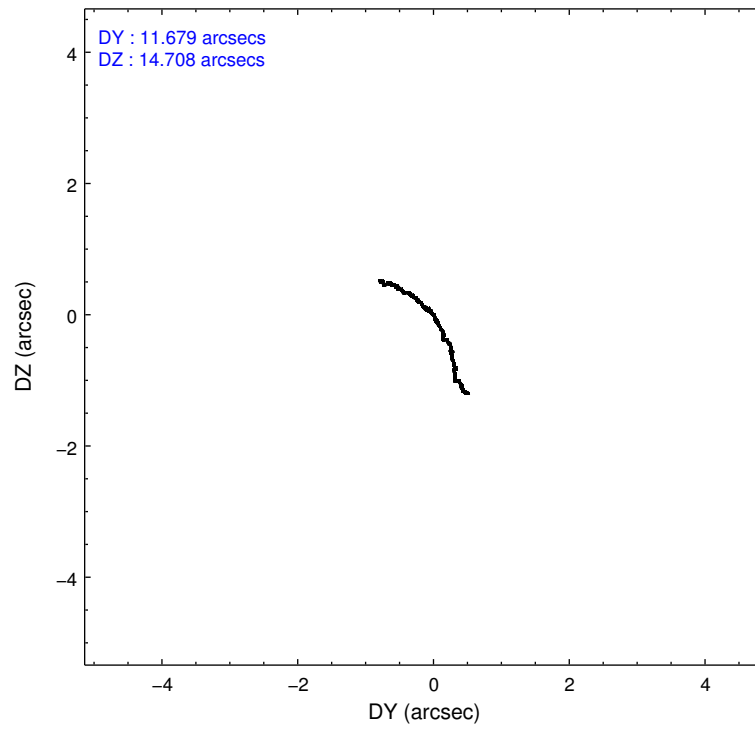
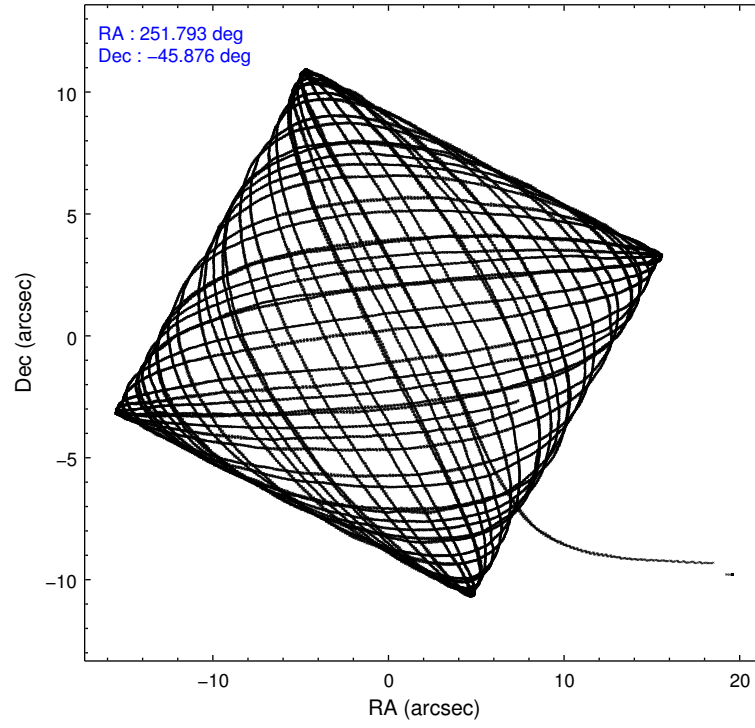
	<b>ccd 7</b>
level 1 events	31557
rejected events	12531
rejected %	39%

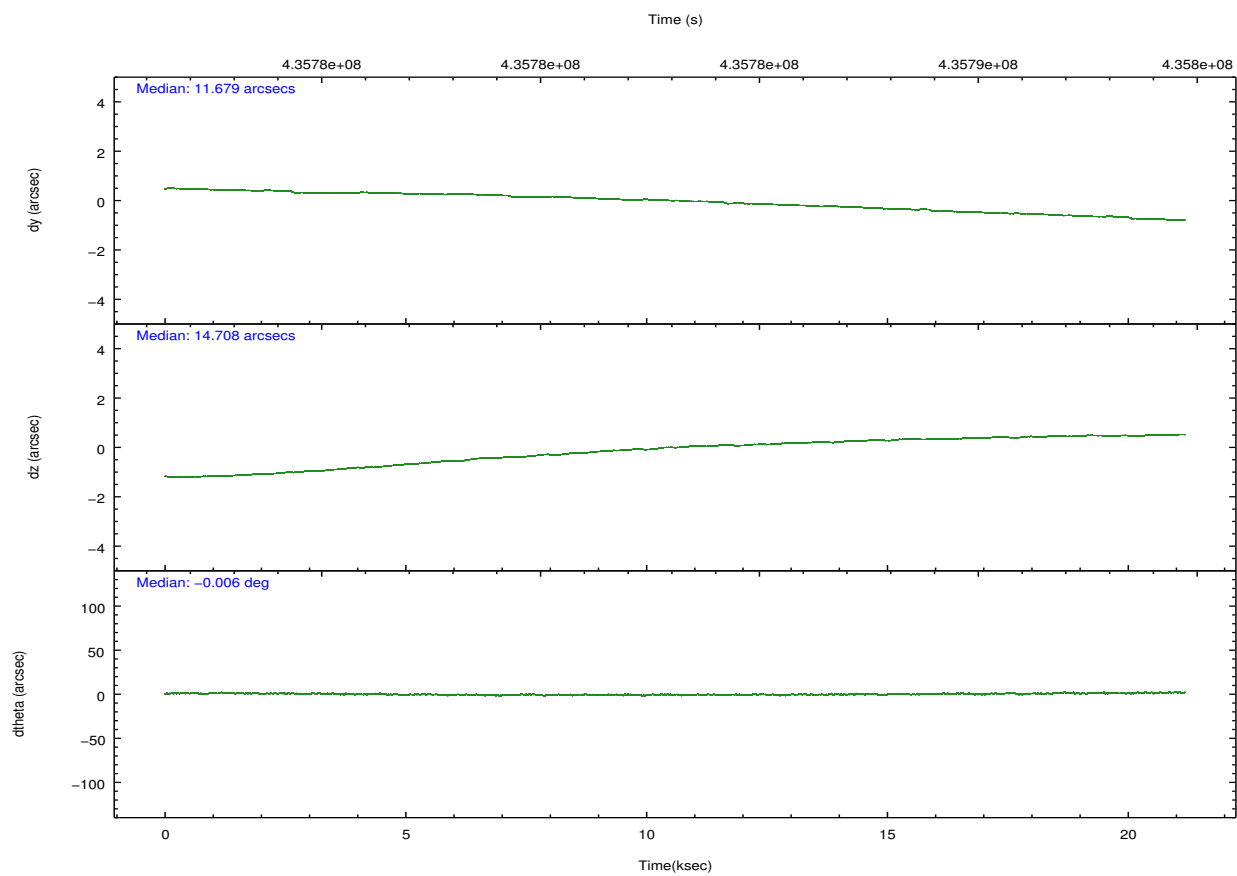
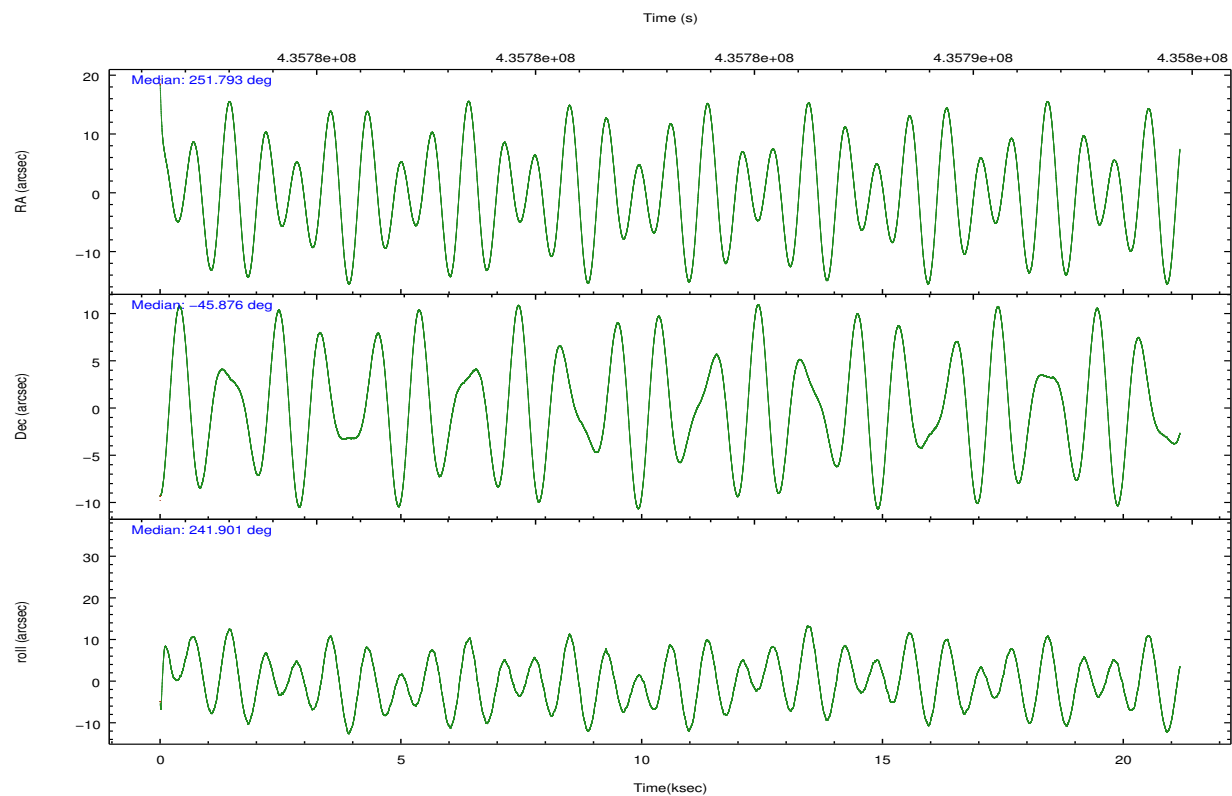
	<b>ccd 7</b>
grade 0 events	2616
	8%
grade 1 events	58
	0%
grade 2 events	4382
	13%
grade 3 events	2338
	7%
grade 4 events	2274
	7%
grade 5 events	2525
	8%
grade 6 events	7416
	23%
grade 7 events	9948
	31%

## 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	251.791094	251.7929270896242	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-45.848889	-45.87620376456886	Subarray start row	449	449
[deg] Pointing Roll	241.749574	241.9075057312095	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	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	435772656.184000	435771356.15523			
Observation start date	2011-10-23T15:56:30	2011-10-23T15:35:56			
[s] Observation end time (MET)	435793656.184000	435794637.49395			
Observation end date	2011-10-23T21:46:30	2011-10-23T22:03:57			
Read mode	TIMED	TIMED			

## 2.3 Aspect



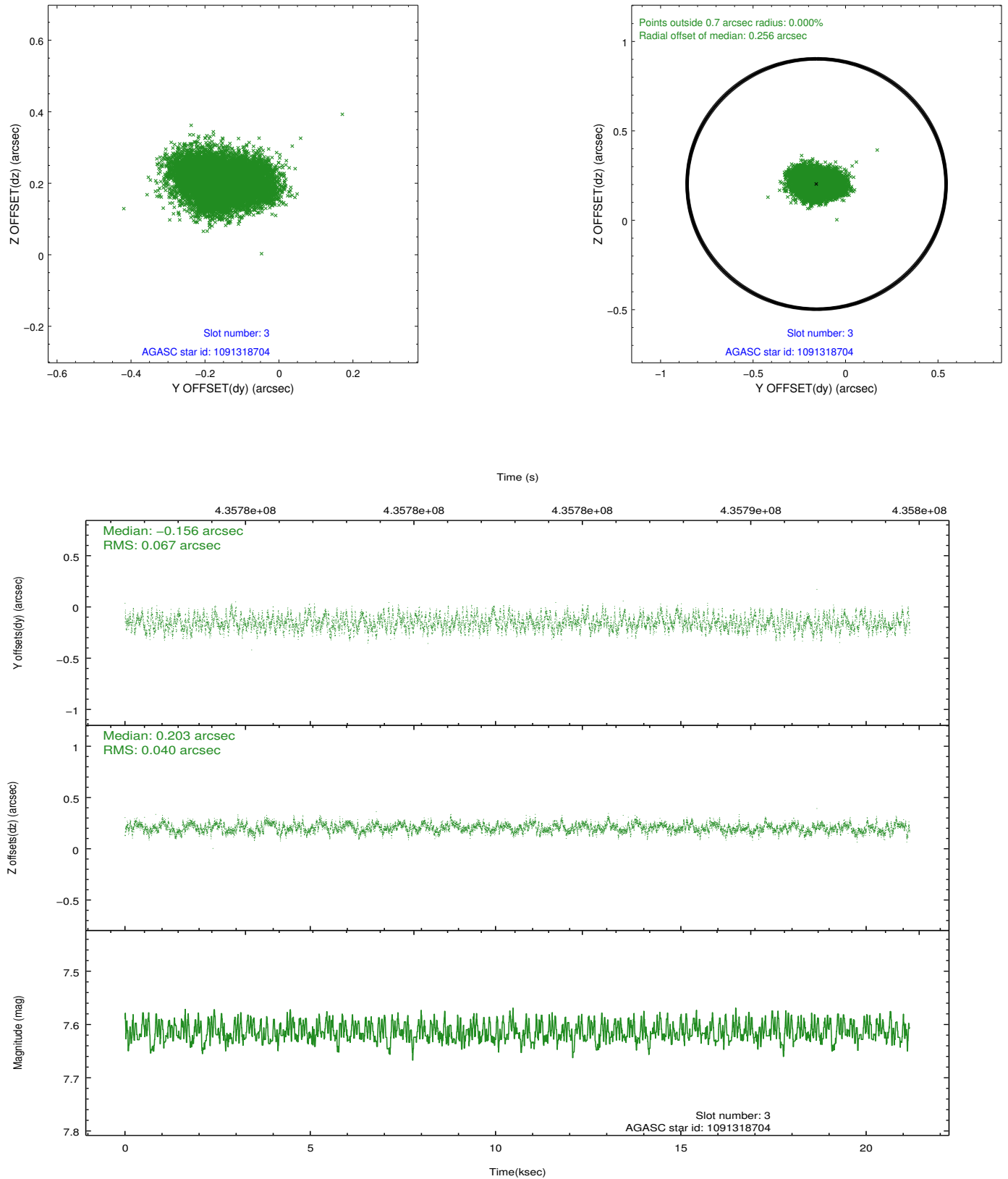


### Slot Statistics

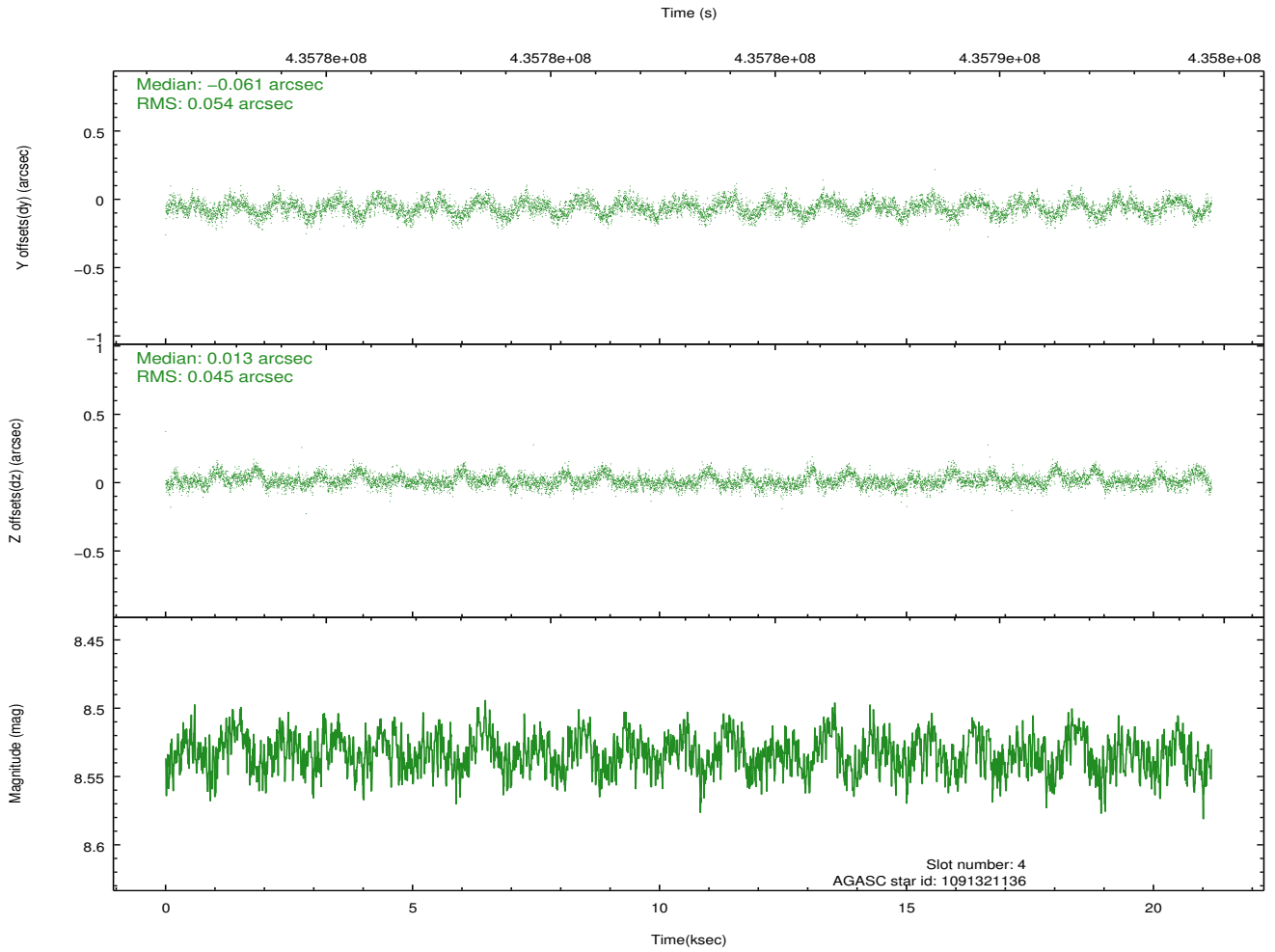
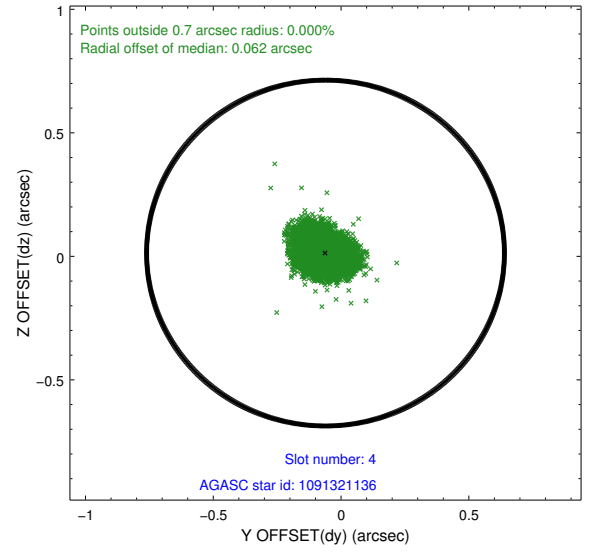
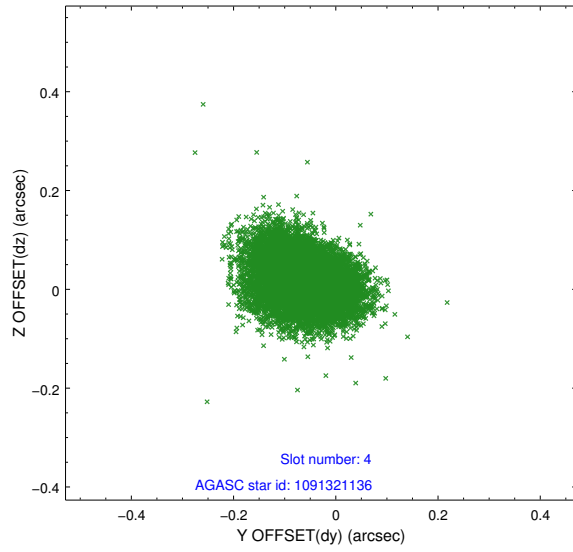
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.02	5165	0.073	-0.048	0.020	0.031	0.000000	0.000000	931.64	-1731.58
1	FID	ACIS-S-5	7.06	5164	-0.127	0.047	0.018	0.034	0.000000	0.000000	-1817.48	165.88
2	FID	ACIS-S-6	7.16	5165	0.031	0.010	0.032	0.041	0.000000	0.000000	396.95	810.01
3	GUIDE	1091318704	7.62	10330	-0.156	0.203	0.083	0.134	251.955714	-45.390313	-1650.65	-414.43
4	GUIDE	1091321136	8.53	10326	-0.061	0.013	0.075	0.120	252.629031	-45.865288	-932.70	1883.37
5	GUIDE	1091326848	8.84	10306	-0.174	-0.109	0.083	0.134	252.143808	-45.528706	-1434.66	238.99
6	GUIDE	1091341680	8.42	10320	0.484	0.069	0.072	0.114	251.240217	-46.114317	1497.37	-756.09
7	GUIDE	1091321752	6.97	10329	-0.097	-0.177	0.062	0.101	251.516776	-46.486101	2343.92	487.55

## 2.4 Star Slots

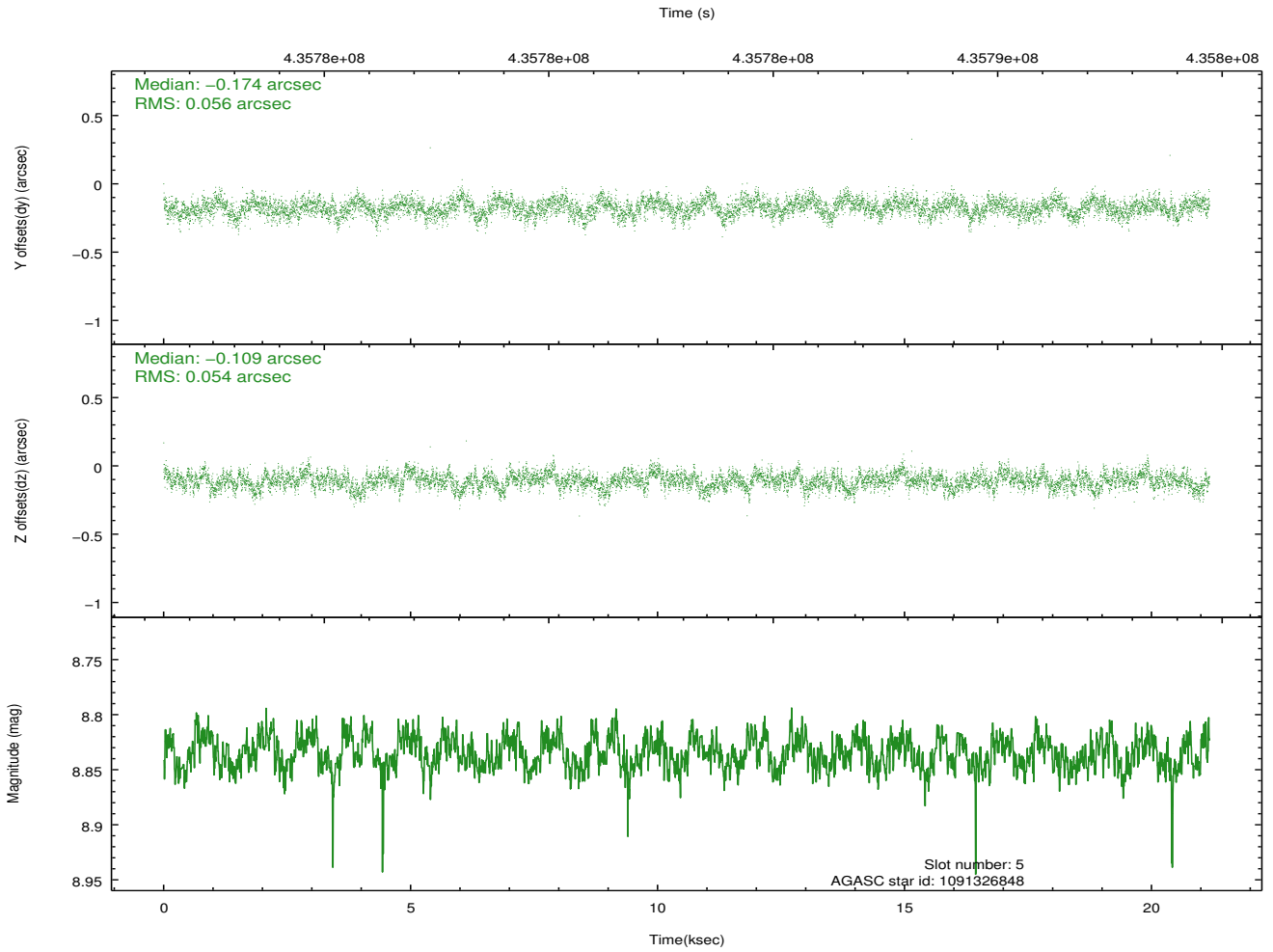
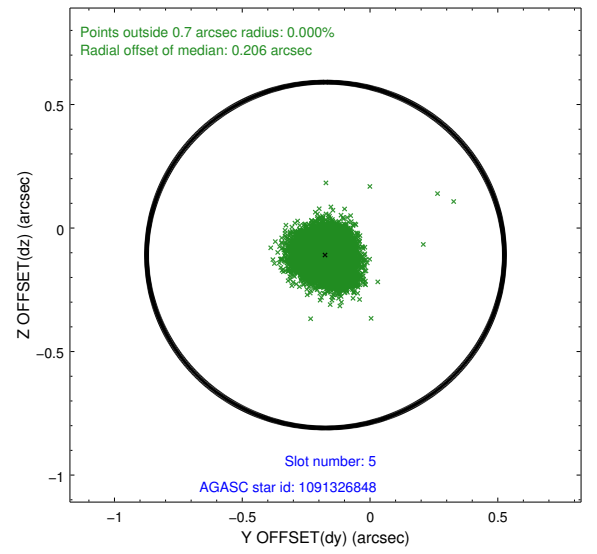
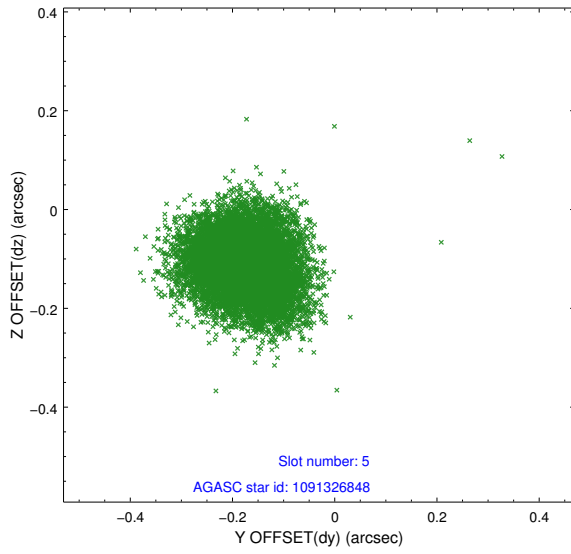
### 2.4.1 Slot 3



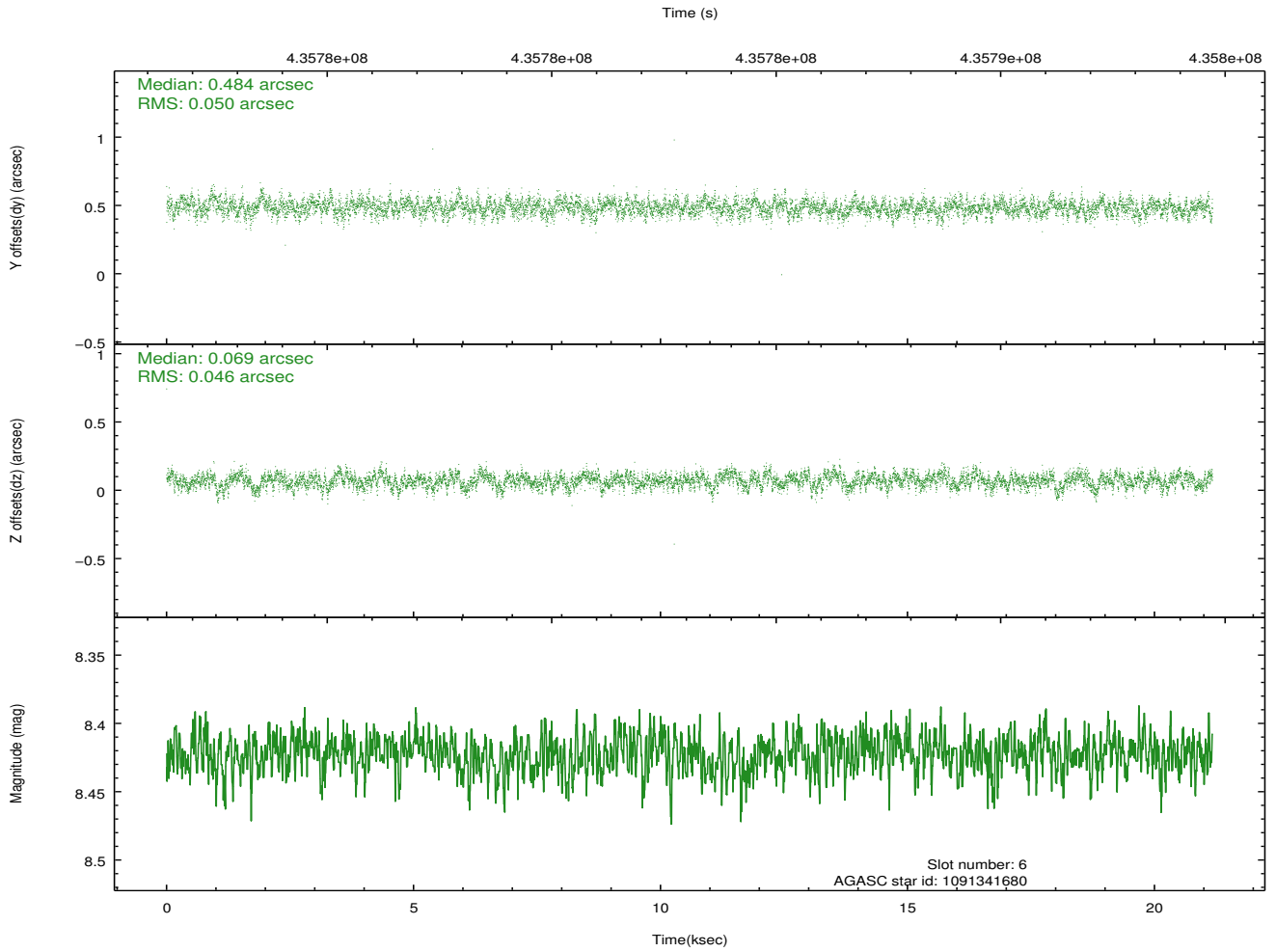
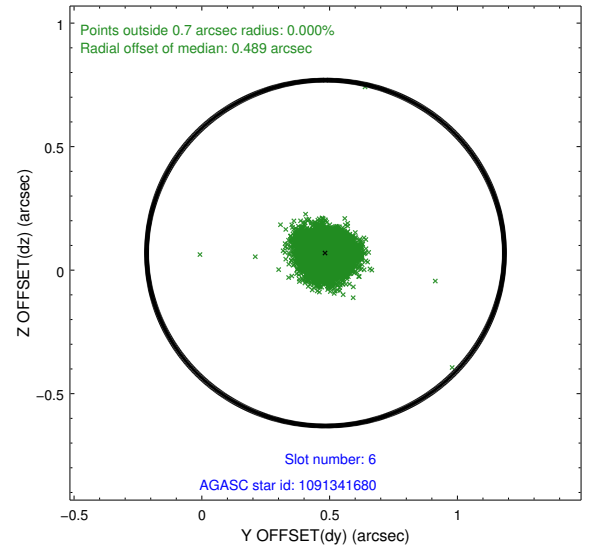
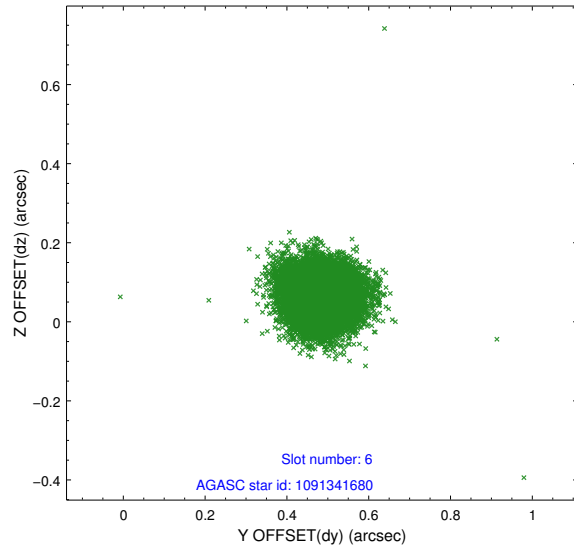
## 2.4.2 Slot 4



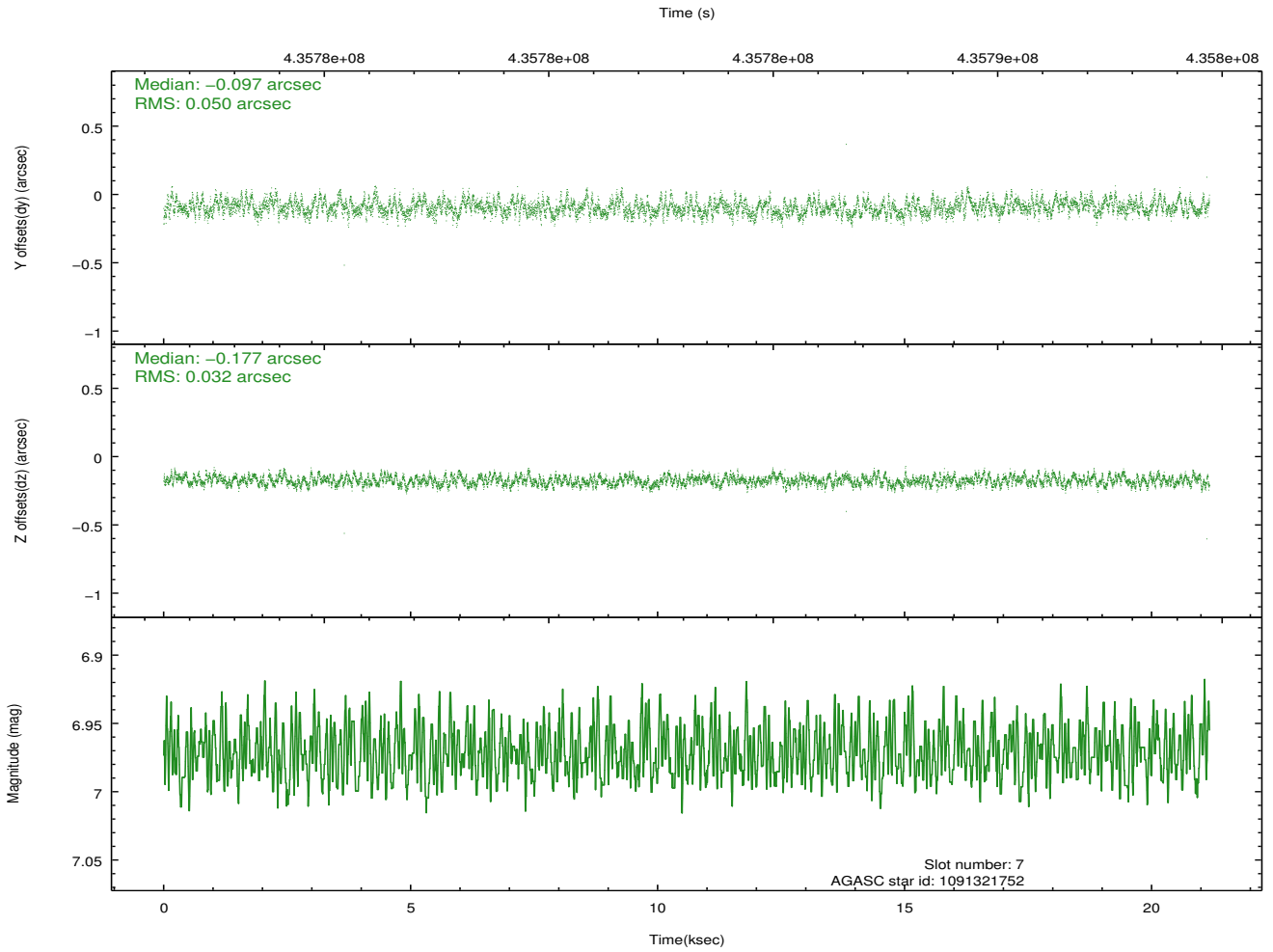
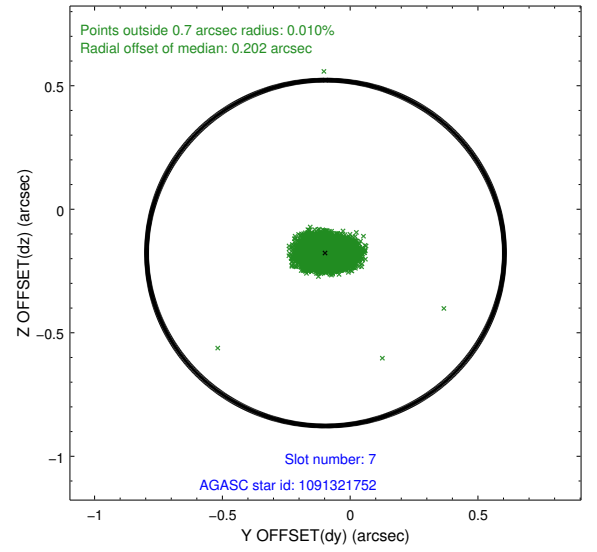
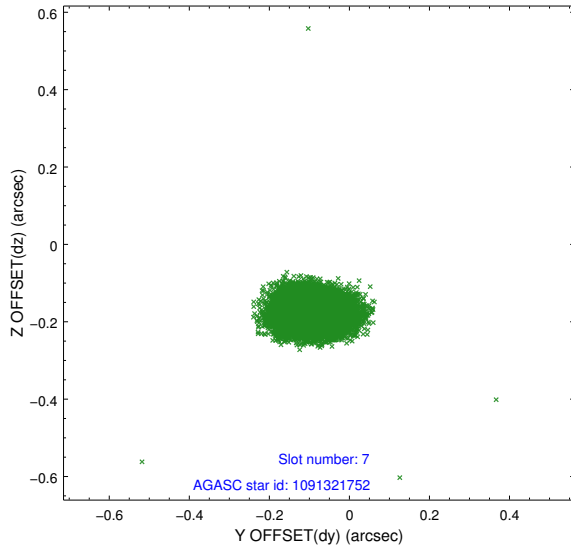
### 2.4.3 Slot 5



## 2.4.4 Slot 6

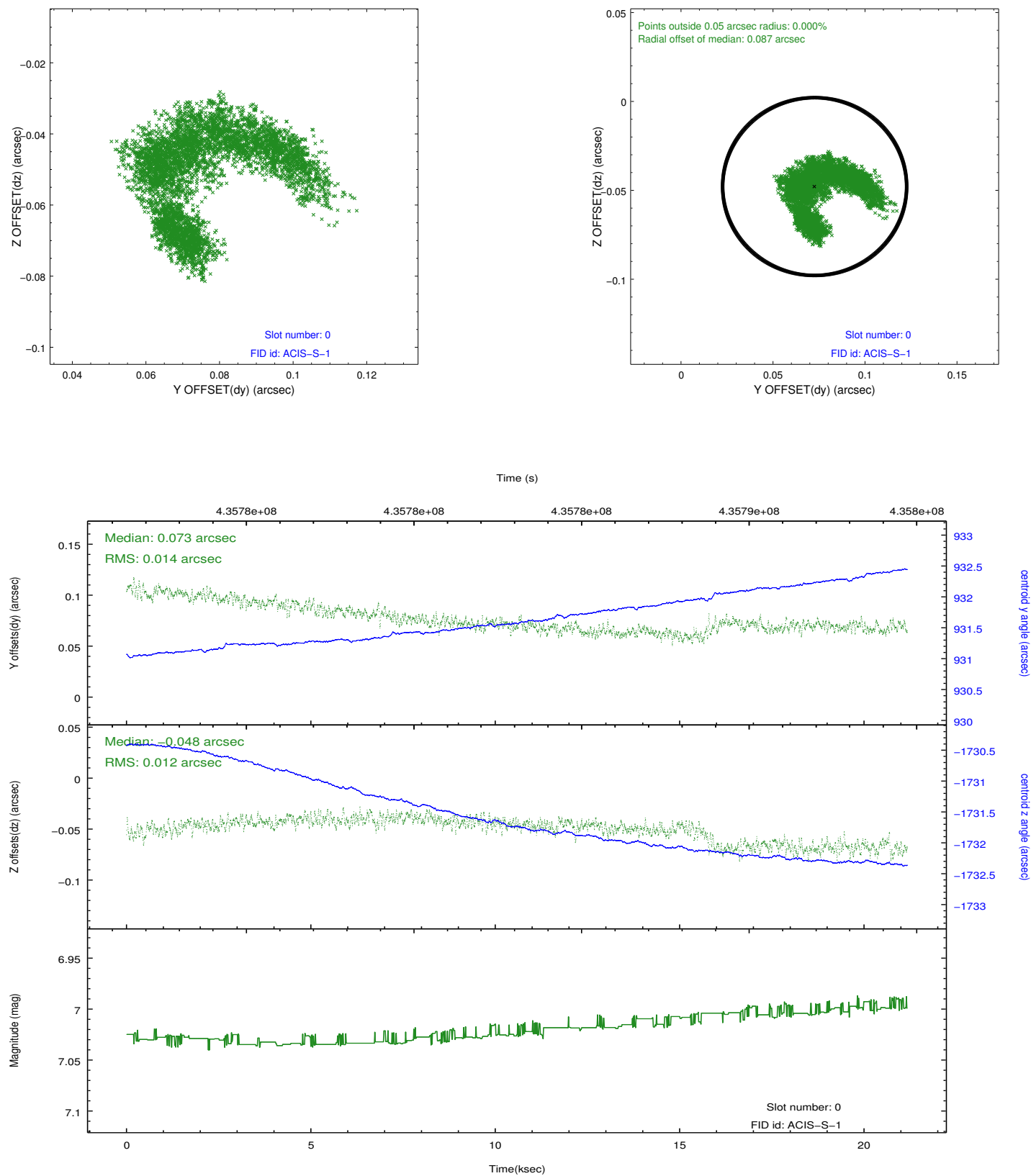


## 2.4.5 Slot 7

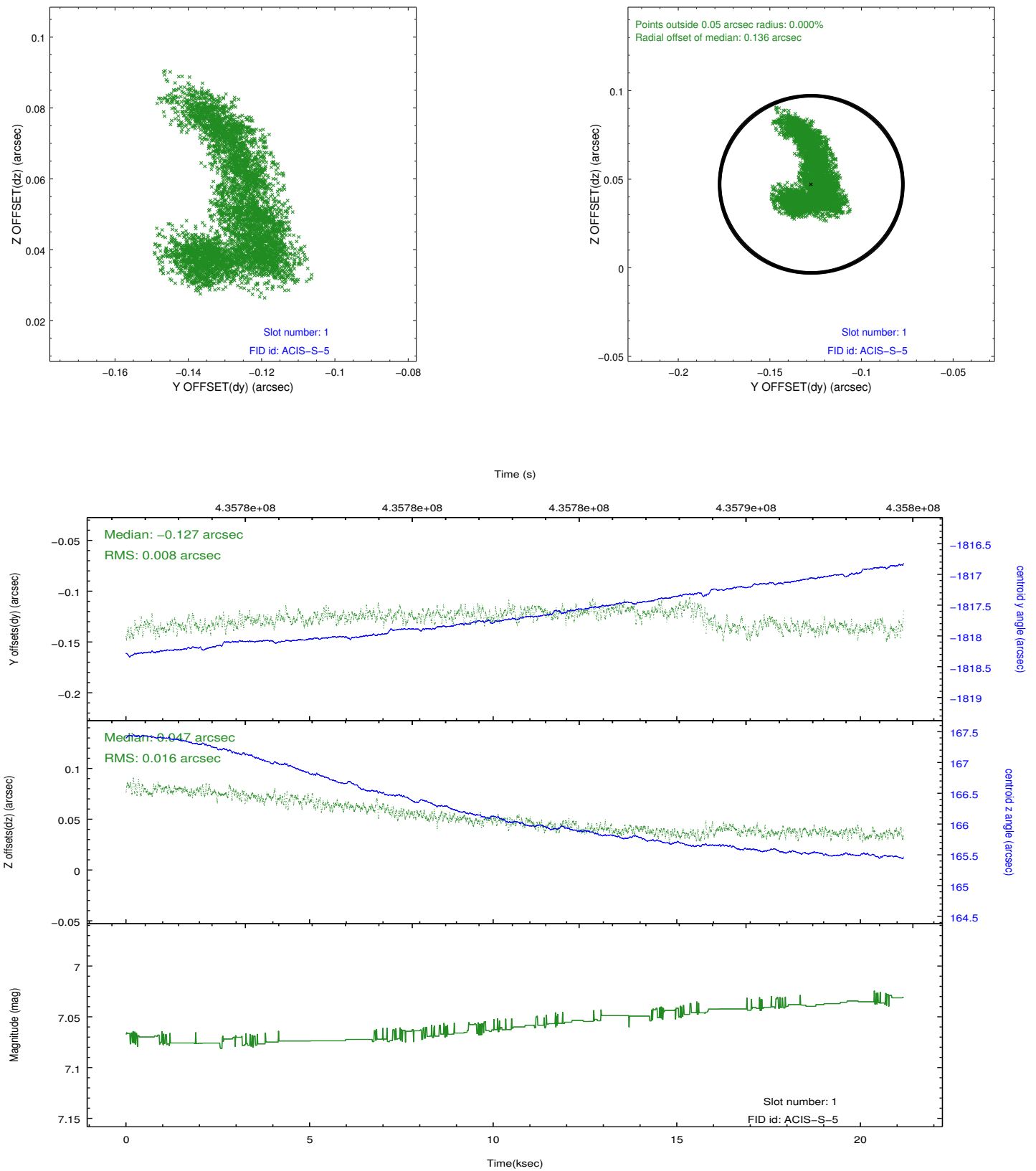


## 2.5 FID Slots

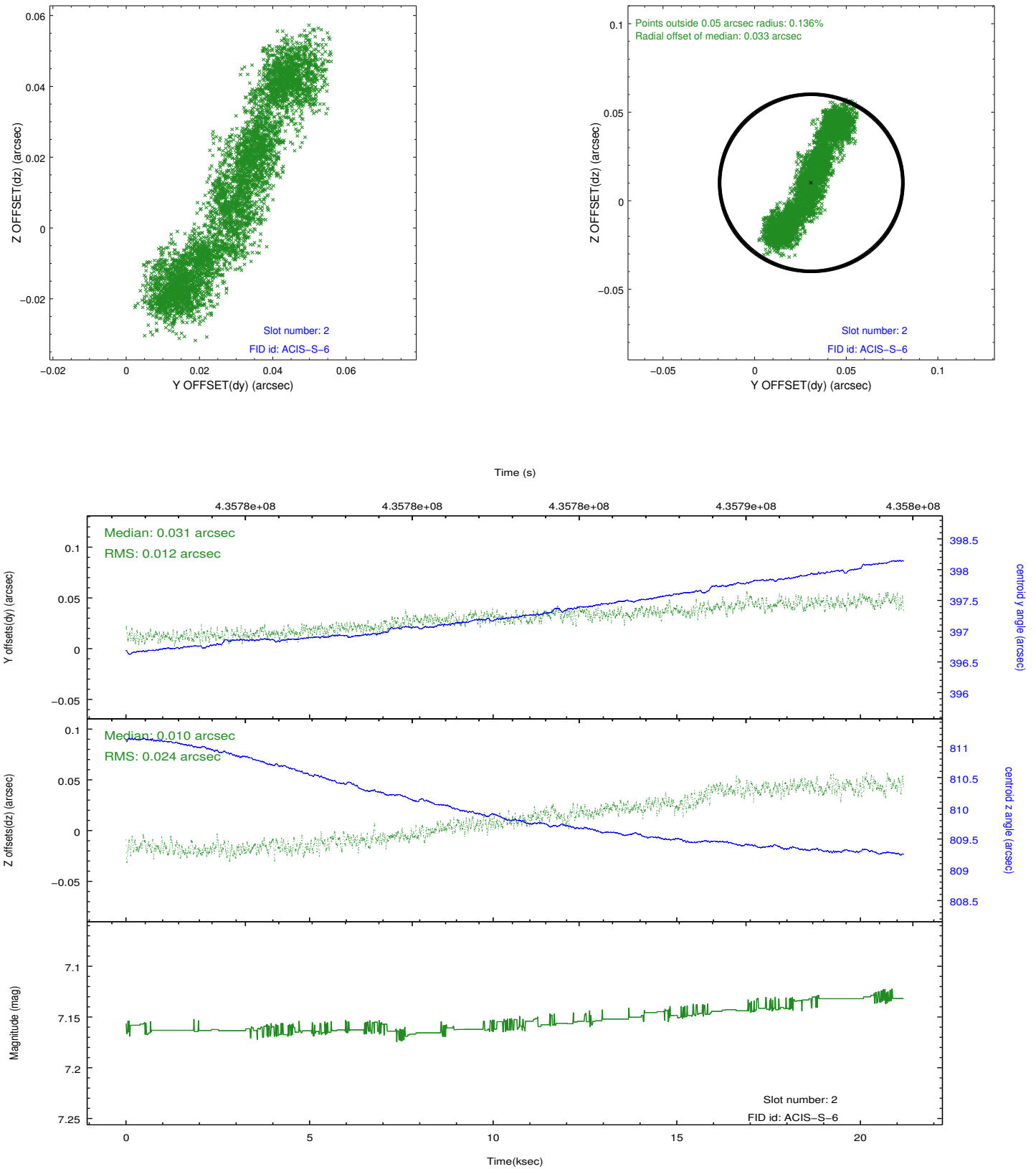
### 2.5.1 Slot 0



## 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)	2012.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.010349076271

### **A.2 Comments**