

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4336 - L2 Version 3  
Chandra X-Ray Center

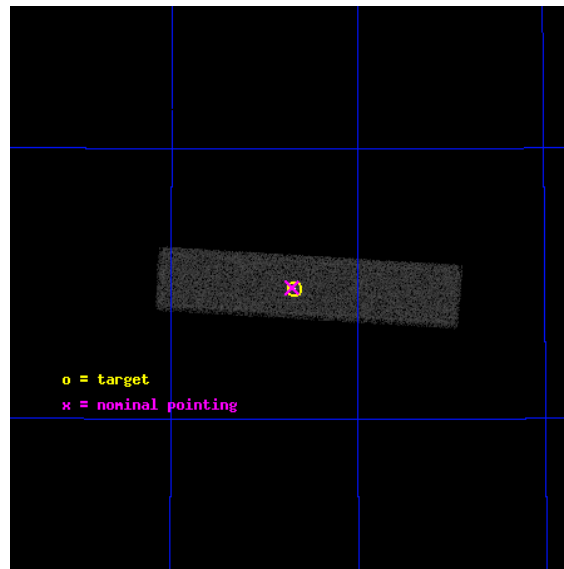
L2 Processing Date : Oct 23 2012

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# 1 Front

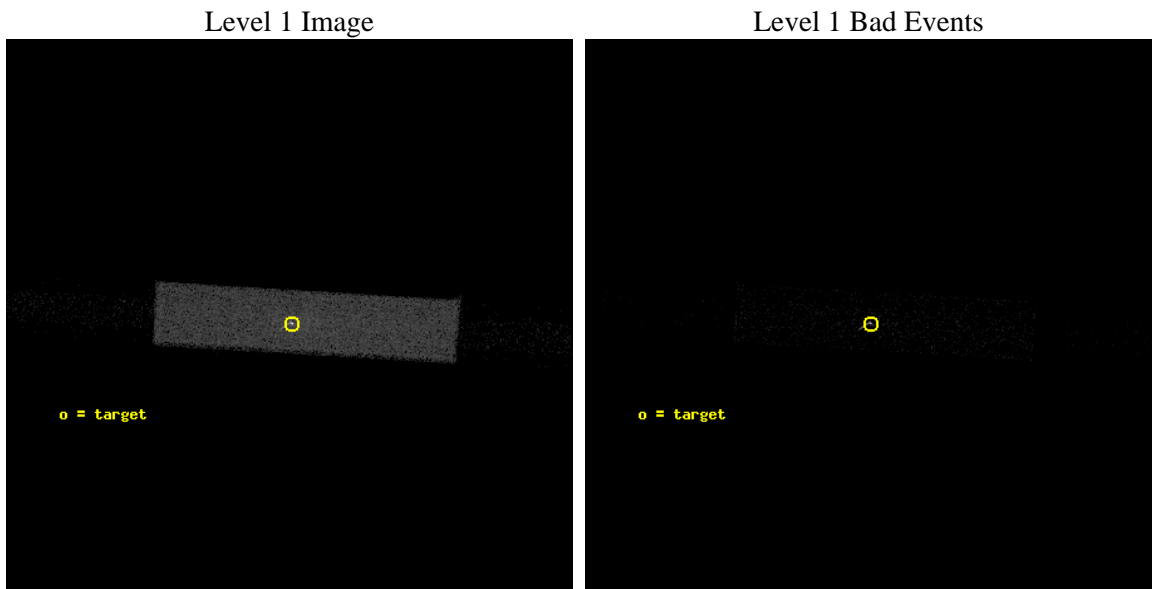
seq_num	290296	Sequence number
obs_id	4336	Observation id
title	AO4A CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-S GAIN	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1768100112	Nominal RA [deg]
dec_nom	45.743552102305	Nominal Dec [deg]
roll_nom	3.3750603702882	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1143.131298095	[s]
livetime	1137.4564036364	Ontime multiplied by DTCOR
l2events	38867	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1143.131298095	[s]
caldbver	4.5.2	&#160	l1events	65002	Number of level 1 events
date	2012-10-23T09:06:06	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

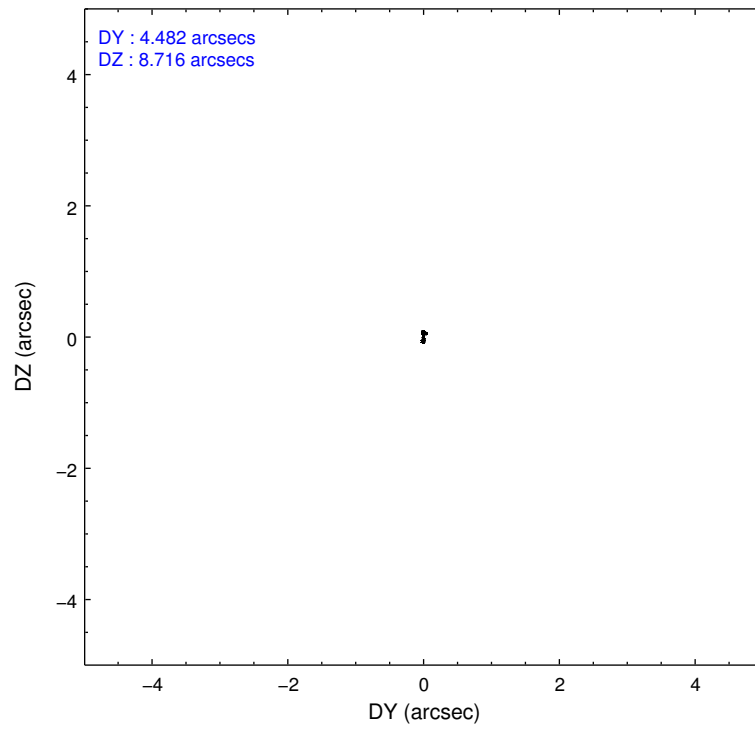
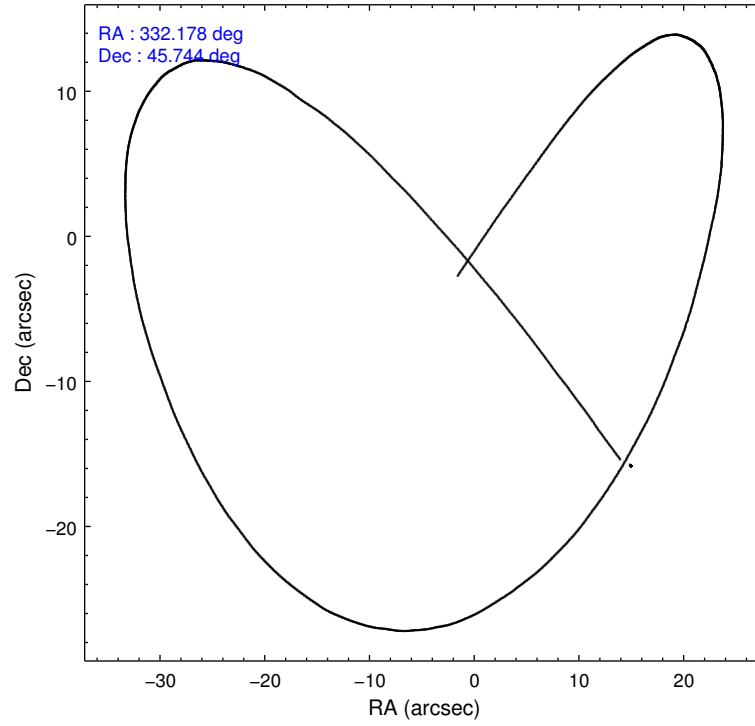
Level 1 Events

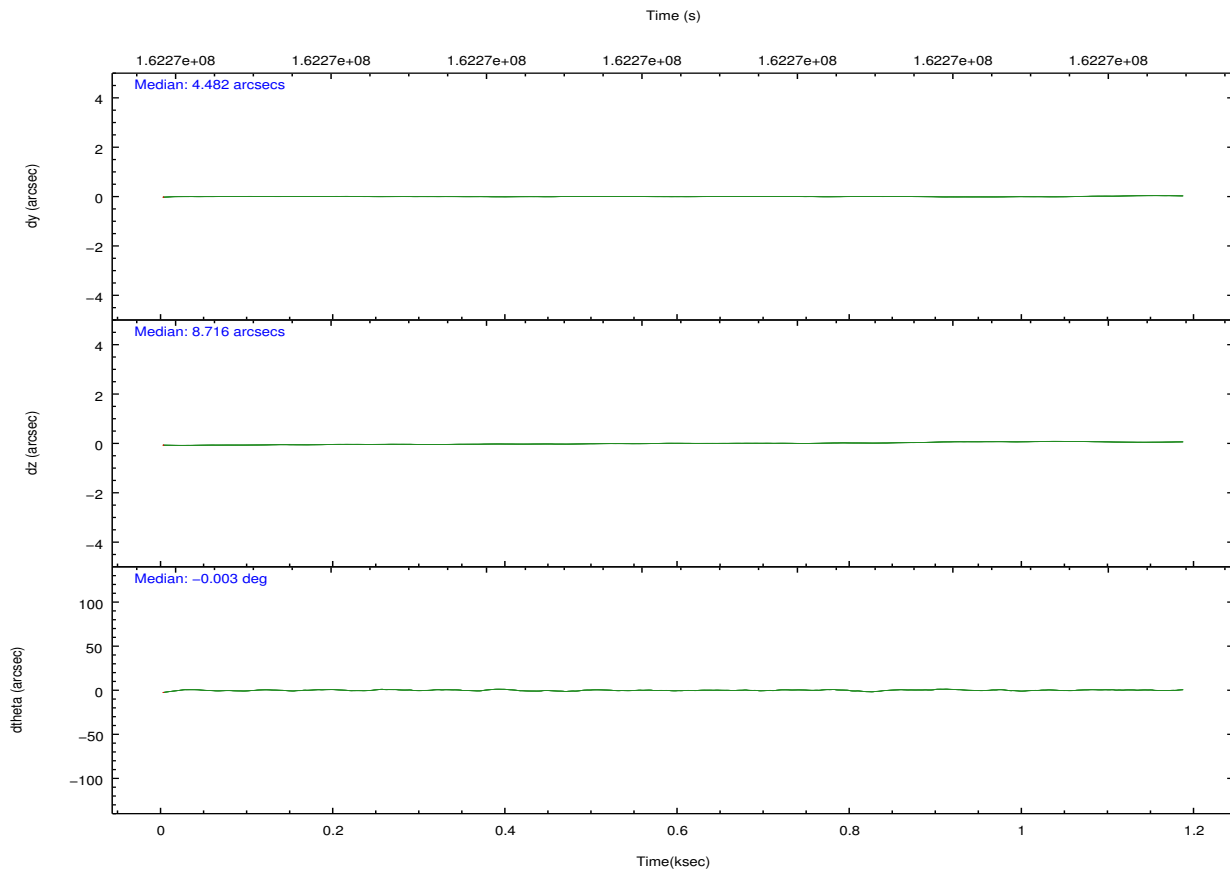
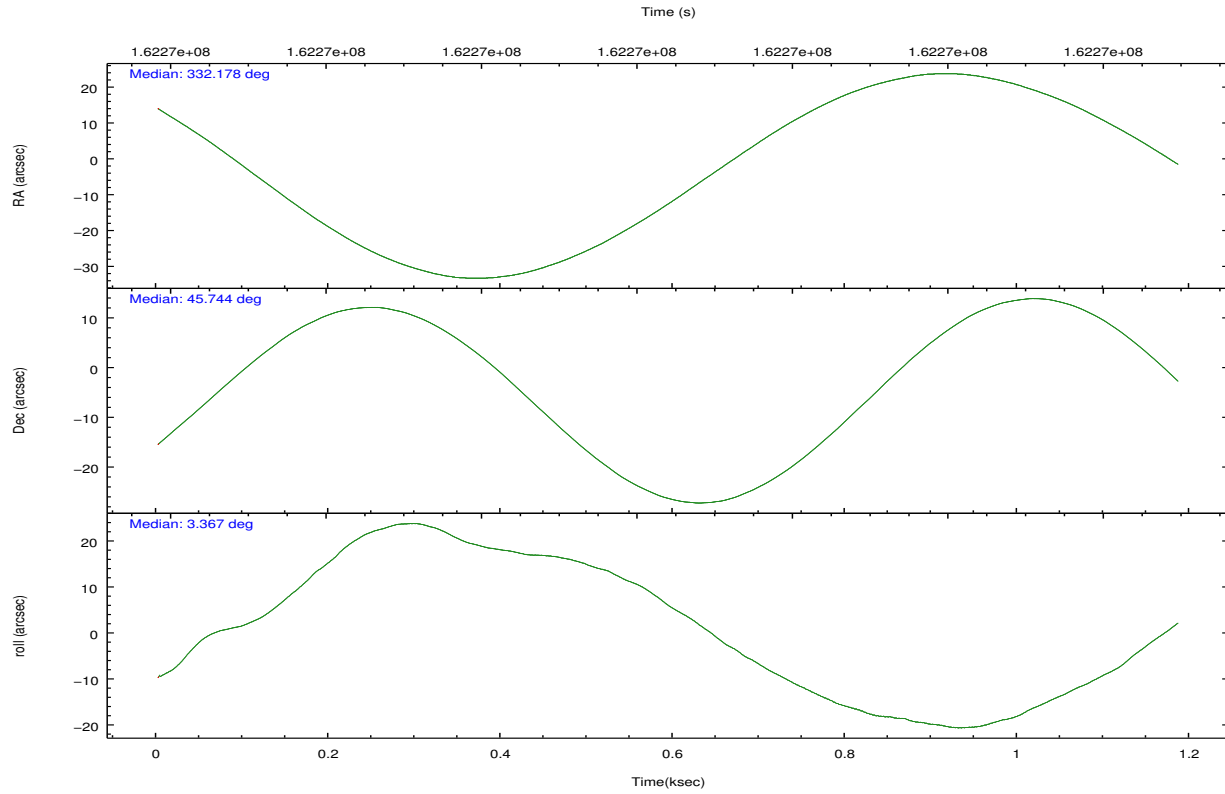
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1018	62998	986
rejected events	1018	14459	986
rejected %	100%	22%	100%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.143647	332.1768100112015			
[deg] Pointing Dec	45.725544	45.7435521023052			
[deg] Pointing Roll	3.331528	3.375060370288228			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	162267835.184000	162267459.76846			
Observation start date	2003-02-22T02:22:51	2003-02-22T02:17:39			
[s] Observation end time (MET)	162268835.184000	162268969.59352			
Observation end date	2003-02-22T02:39:31	2003-02-22T02:42:49			

## 2.3 Aspect



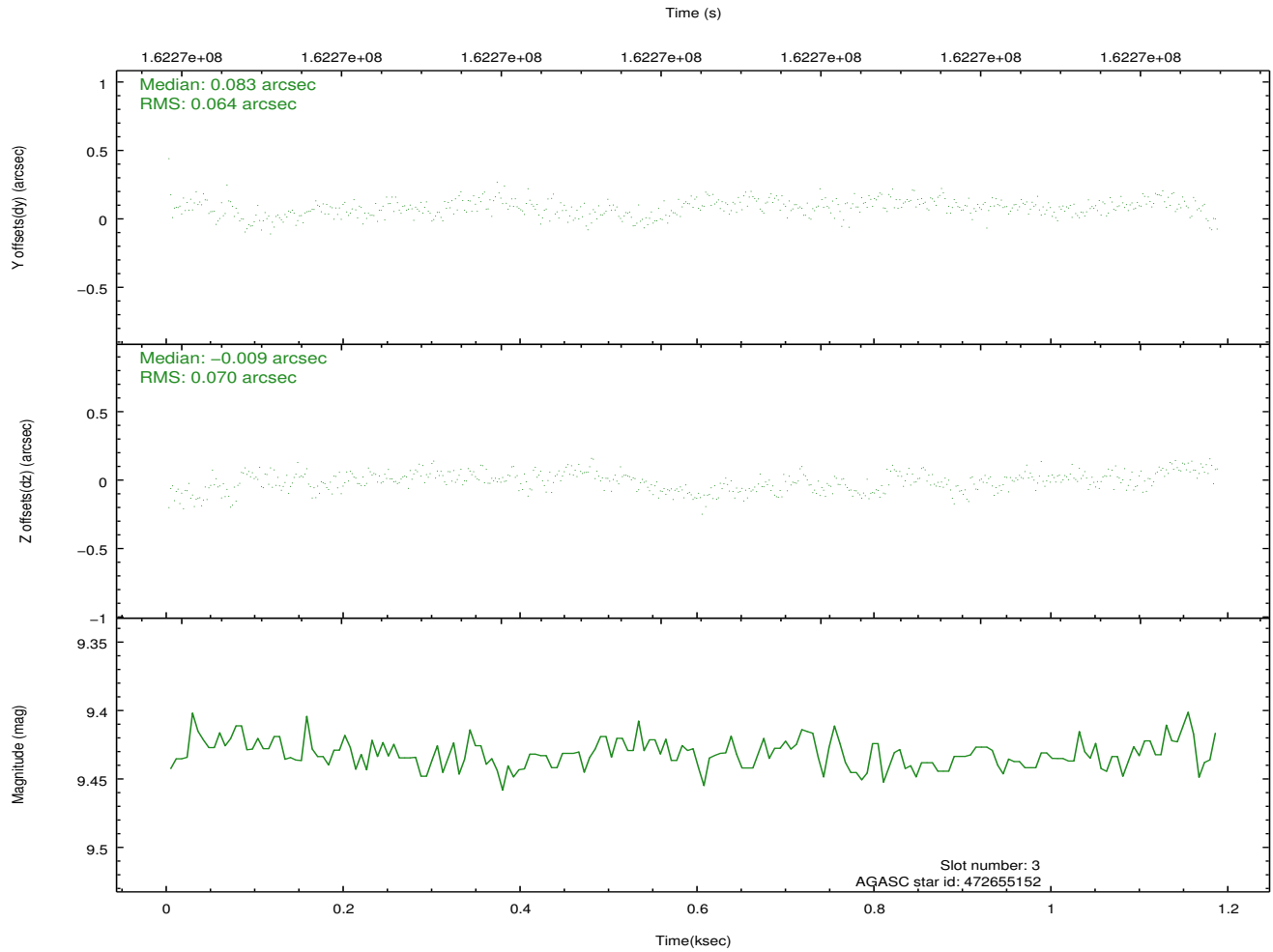
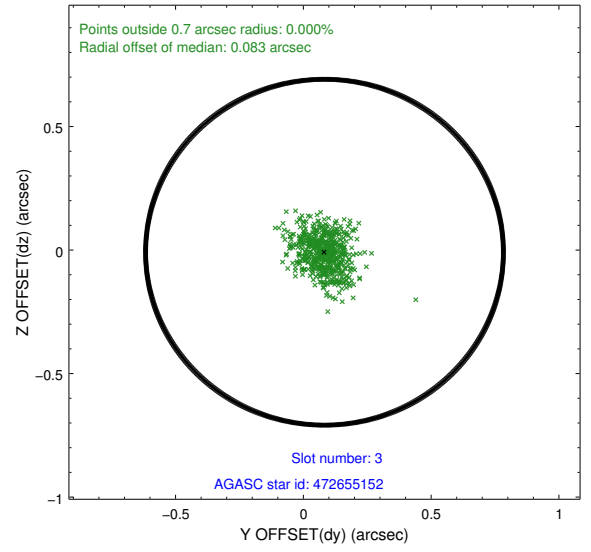
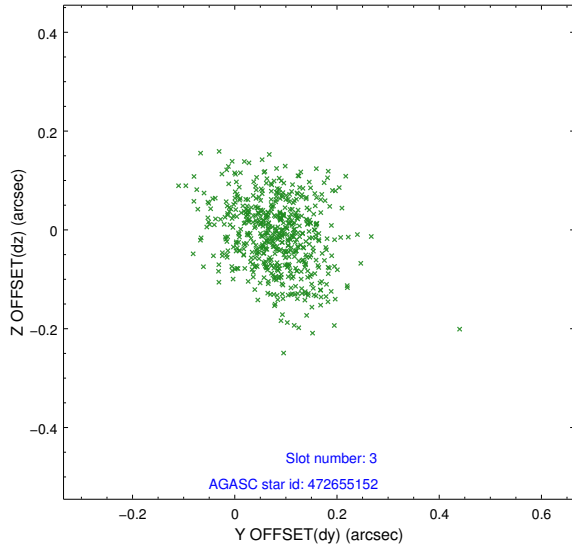


### Slot Statistics

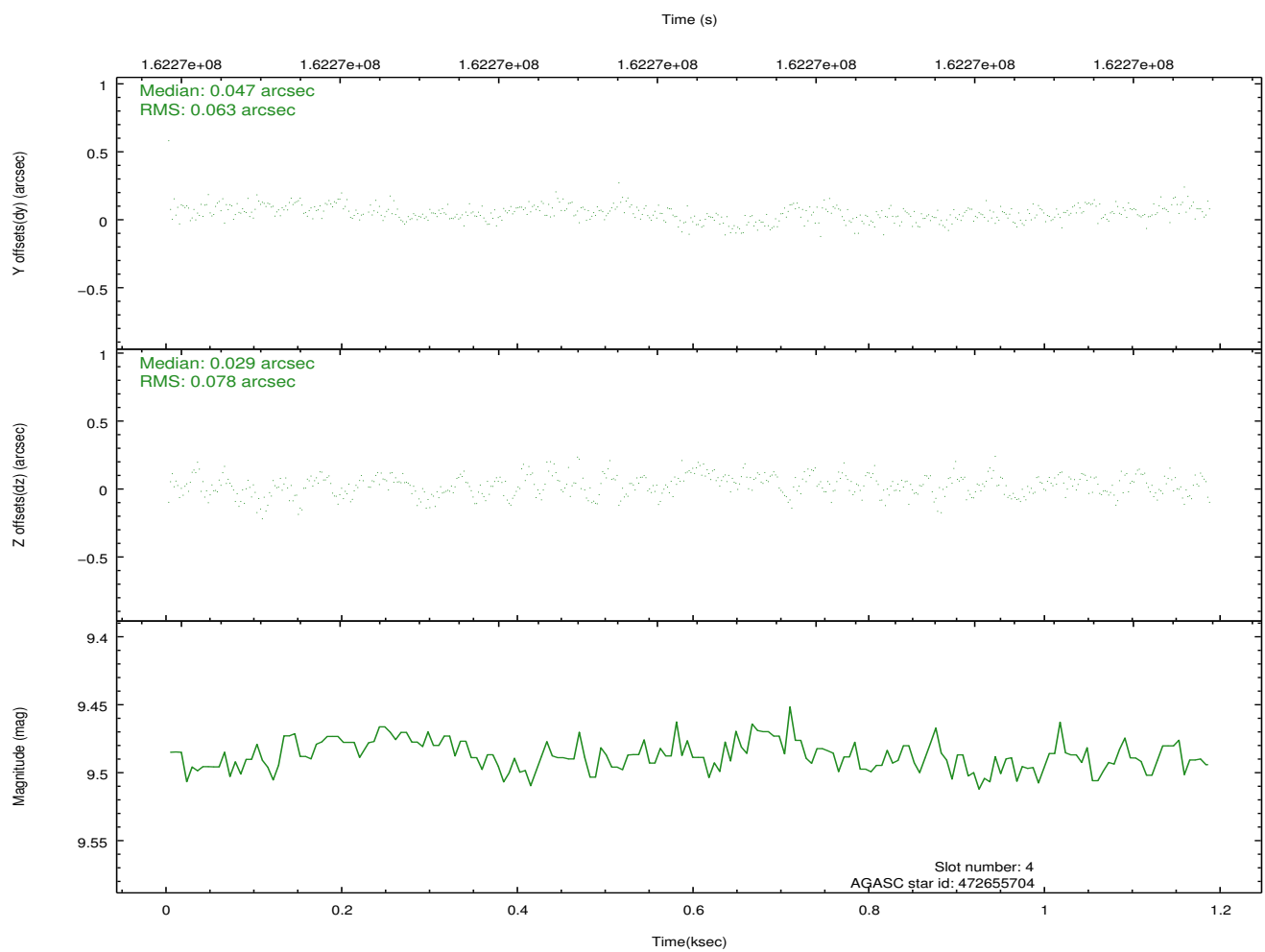
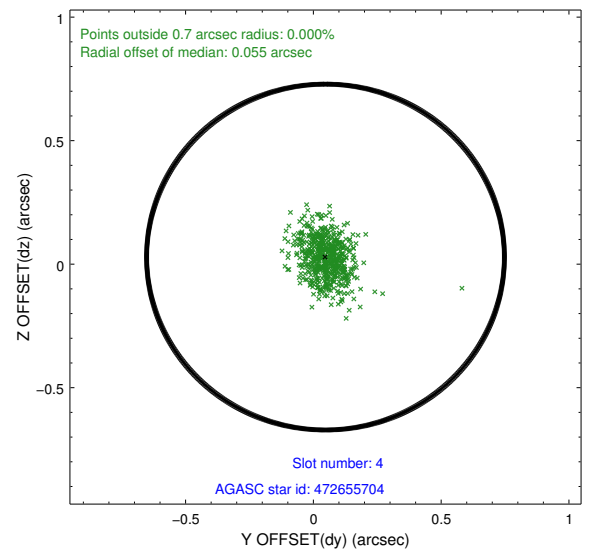
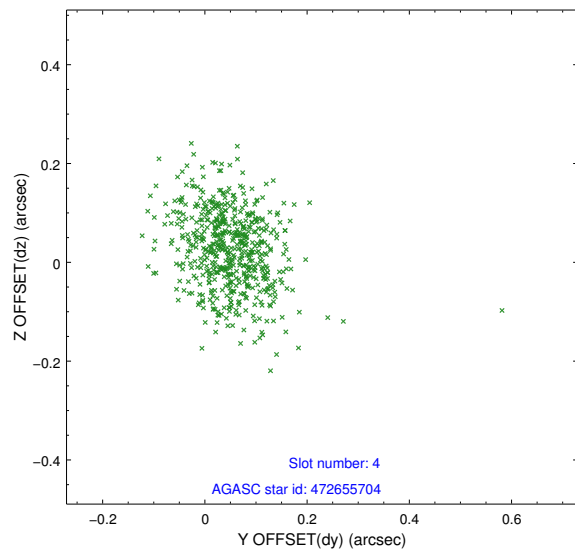
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	290	0.157	-0.156	0.006	0.013	0.000000	0.000000	-1158.54	-457.34
1	FID	HRC-S-2	7.00	290	0.064	-0.084	0.004	0.008	0.000000	0.000000	1237.05	-451.50
2	FID	HRC-S-3	7.03	290	0.169	-0.062	0.006	0.011	0.000000	0.000000	-1156.97	570.73
3	GUIDE	472655152	9.43	579	0.083	-0.009	0.102	0.163	332.504239	45.862991	930.99	439.81
4	GUIDE	472655704	9.49	577	0.047	0.029	0.104	0.174	332.167195	45.285228	-31.11	-1588.83
5	GUIDE	472659832	9.46	578	0.023	0.042	0.093	0.153	332.780399	46.098139	1664.58	1246.80
6	GUIDE	472523760	8.23	579	-0.138	-0.021	0.065	0.107	331.645363	45.403260	-1322.07	-1083.01
7	GUIDE	472533912	9.18	578	-0.014	-0.045	0.111	0.162	331.791136	46.368695	-742.58	2358.49

## 2.4 Star Slots

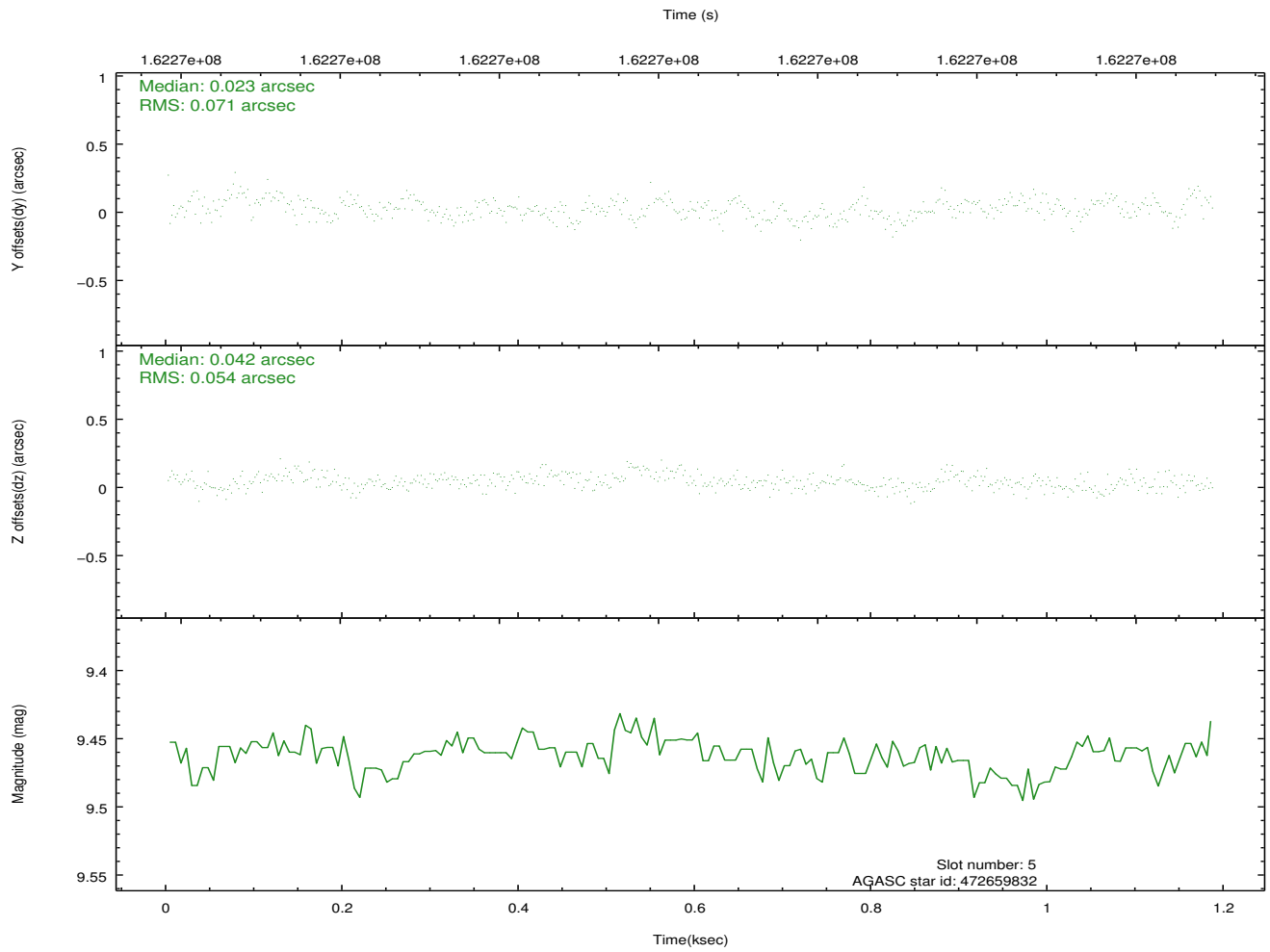
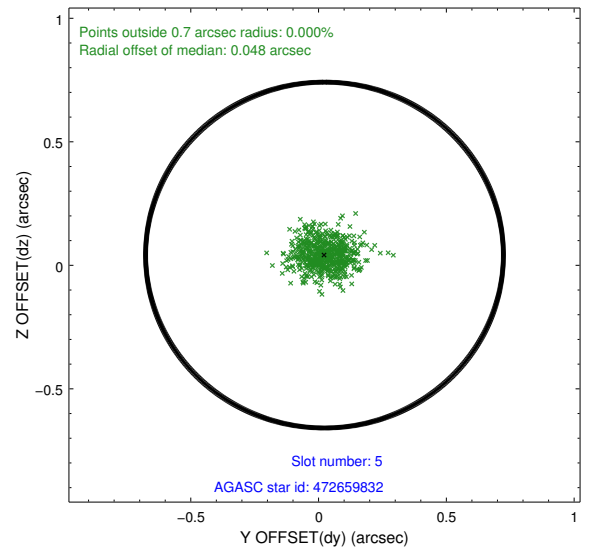
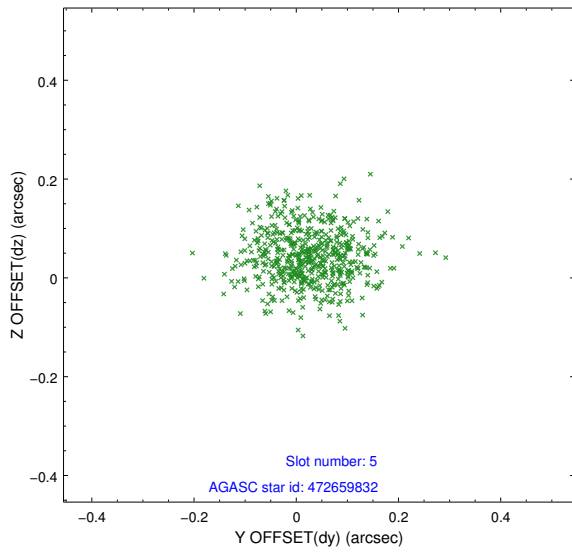
### 2.4.1 Slot 3



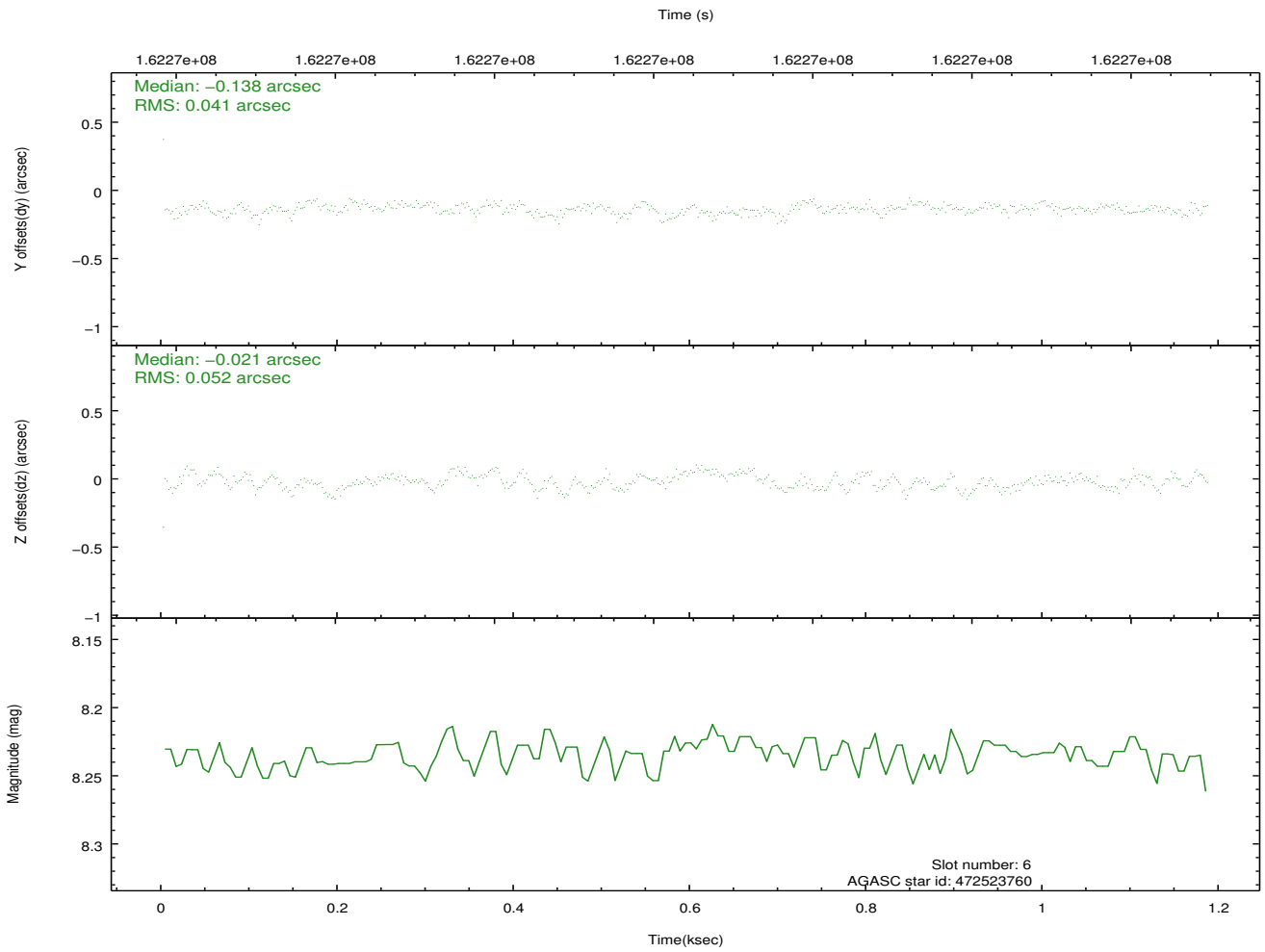
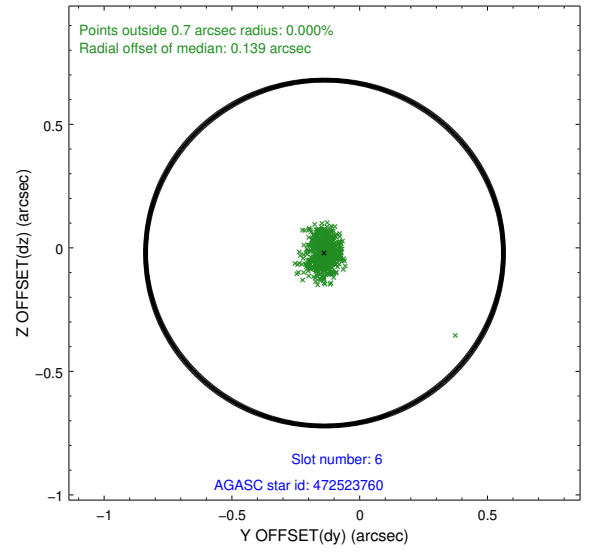
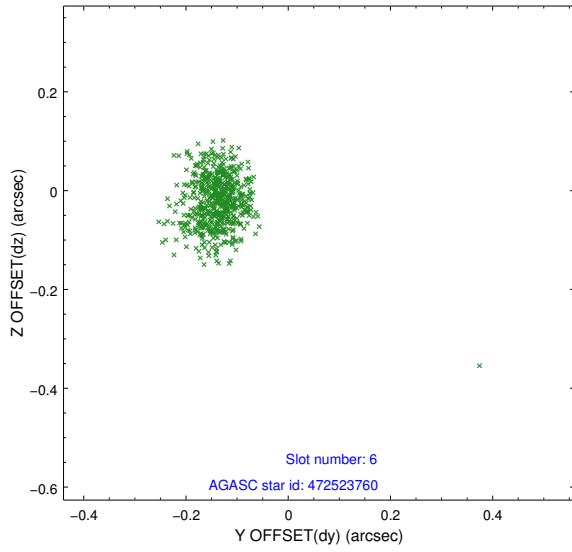
## 2.4.2 Slot 4



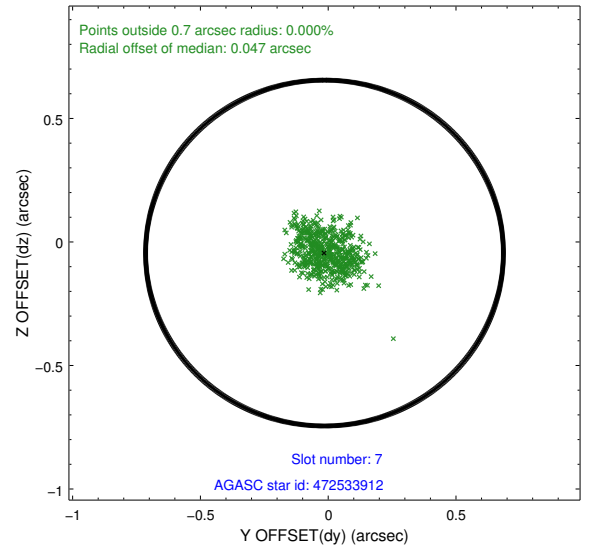
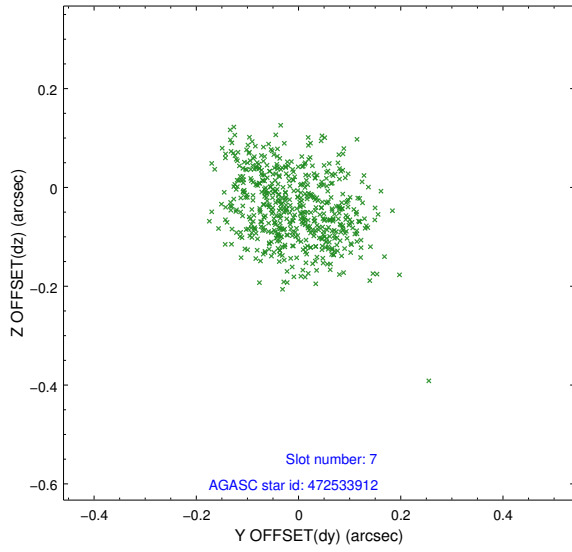
### 2.4.3 Slot 5



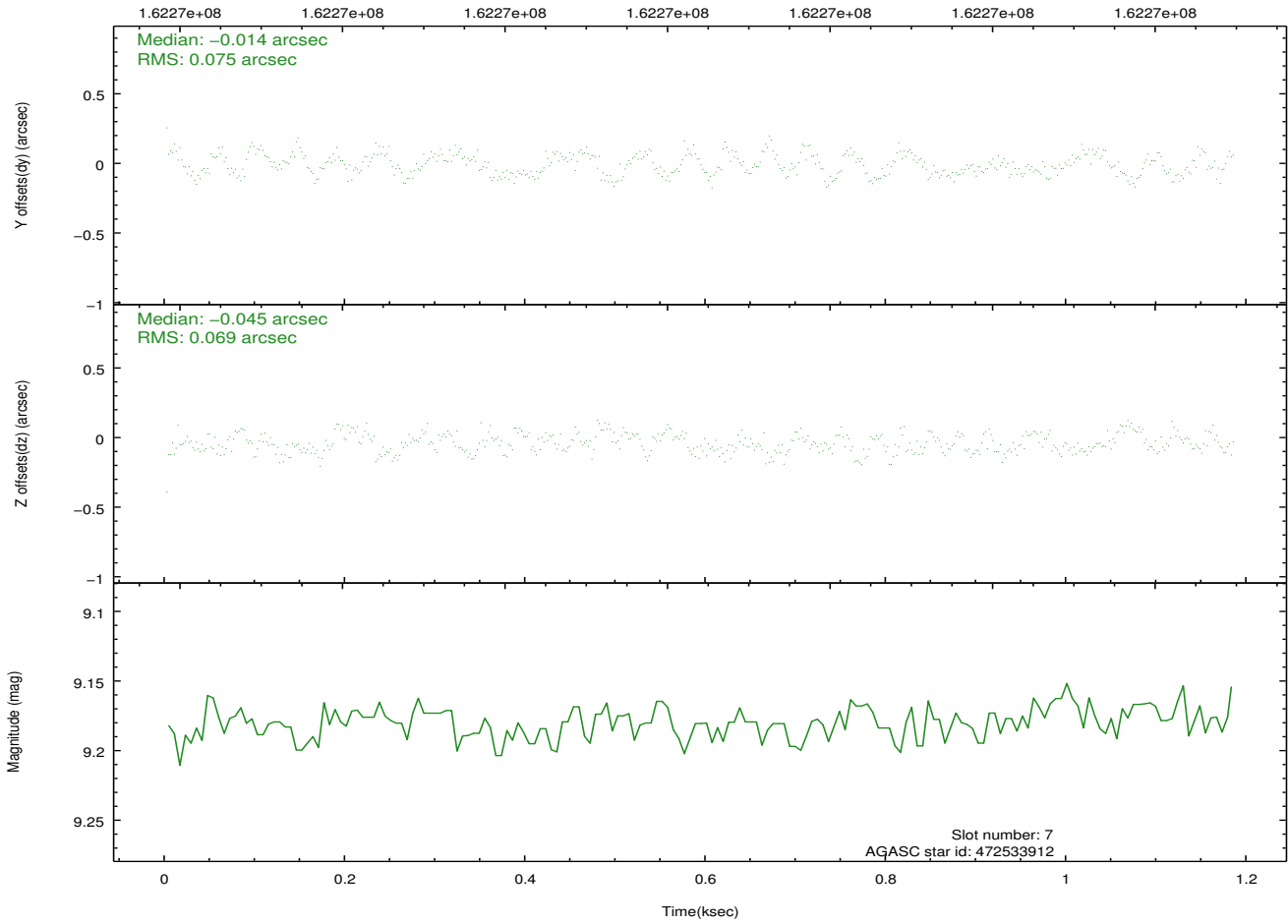
### 2.4.4 Slot 6



## 2.4.5 Slot 7

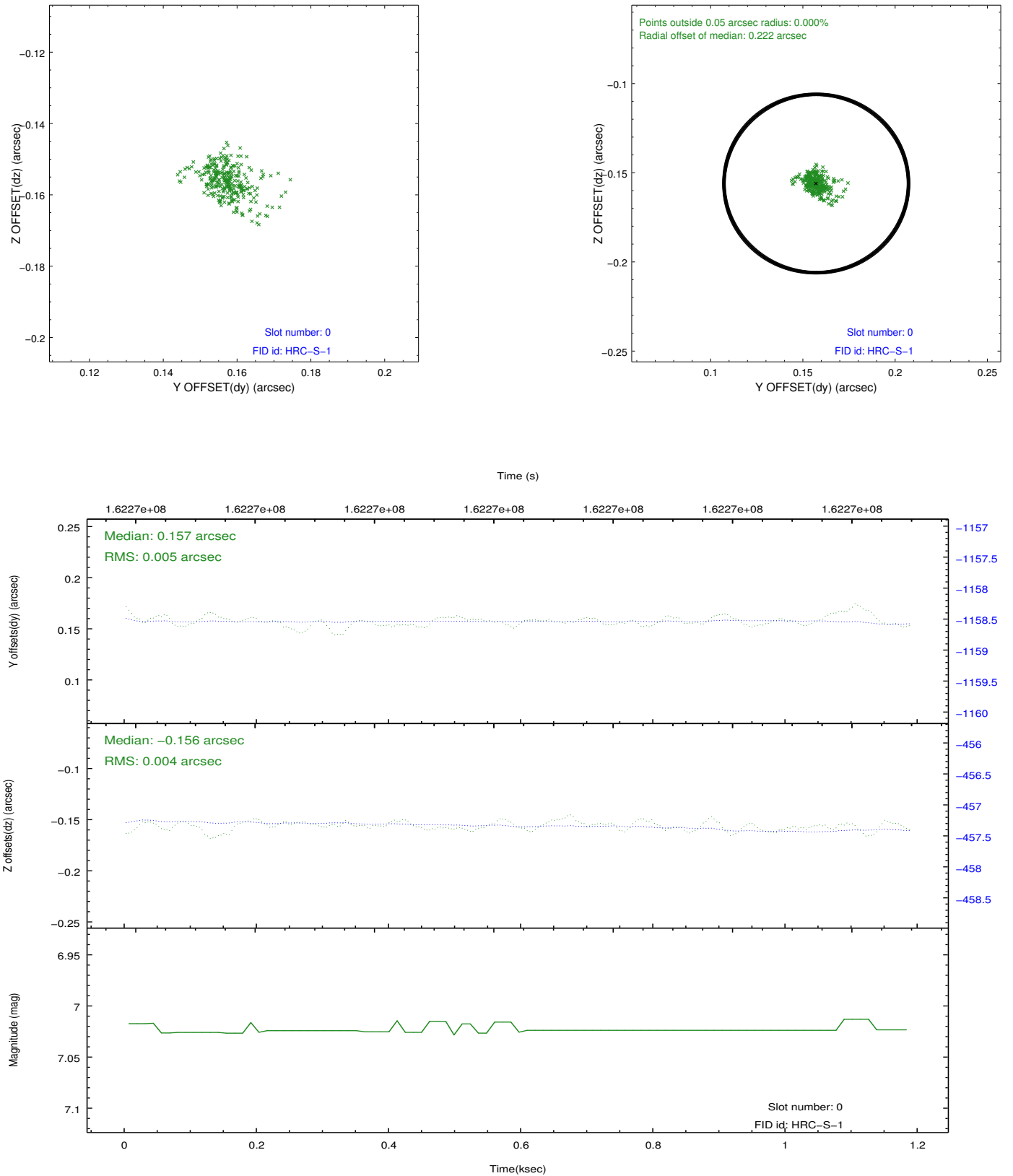


Time (s)

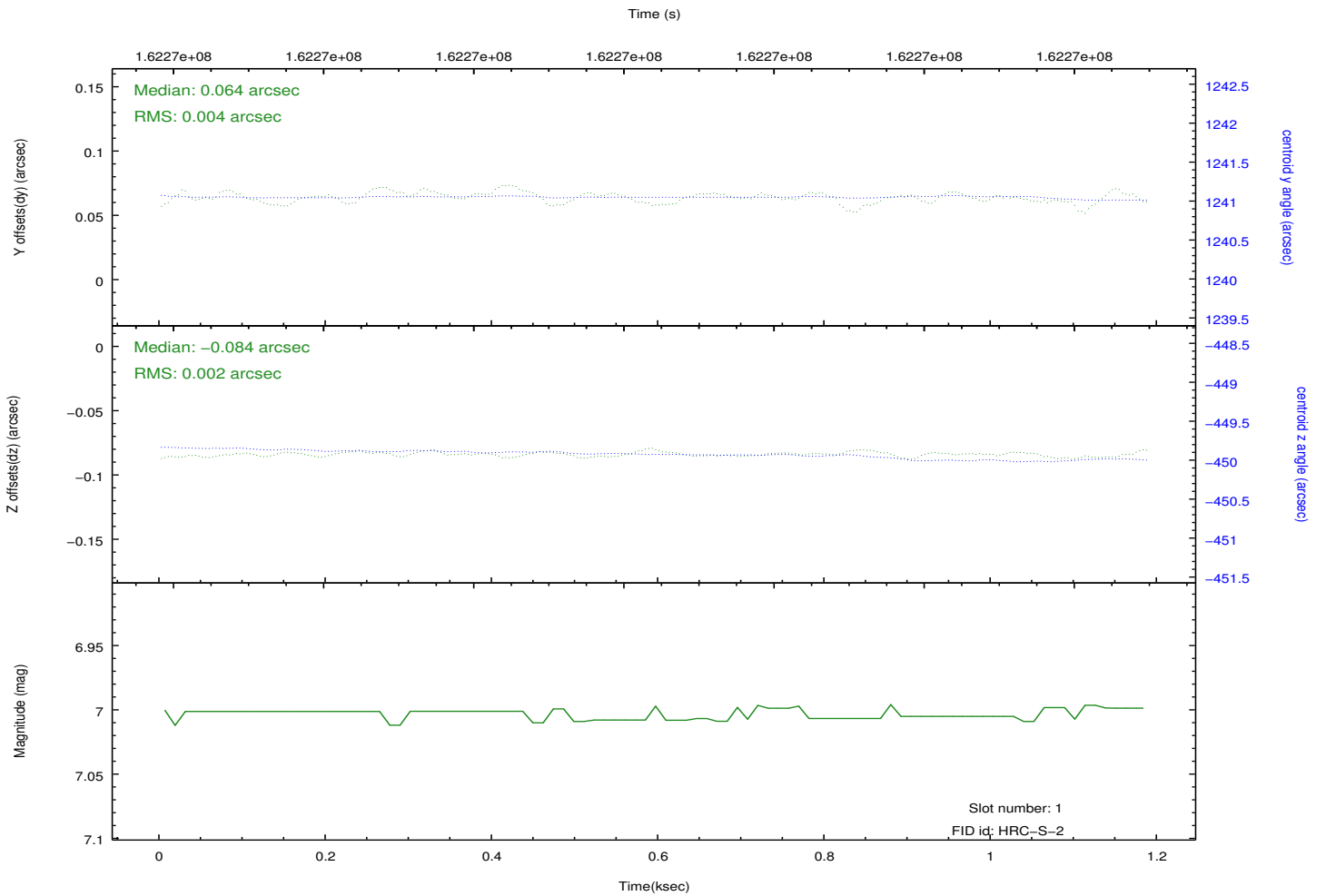
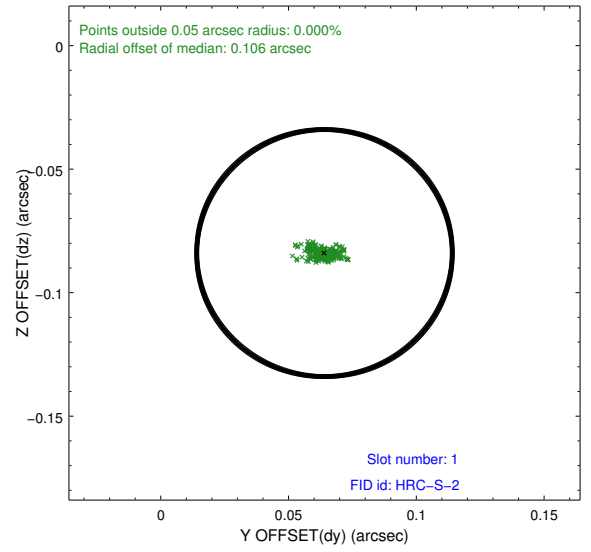
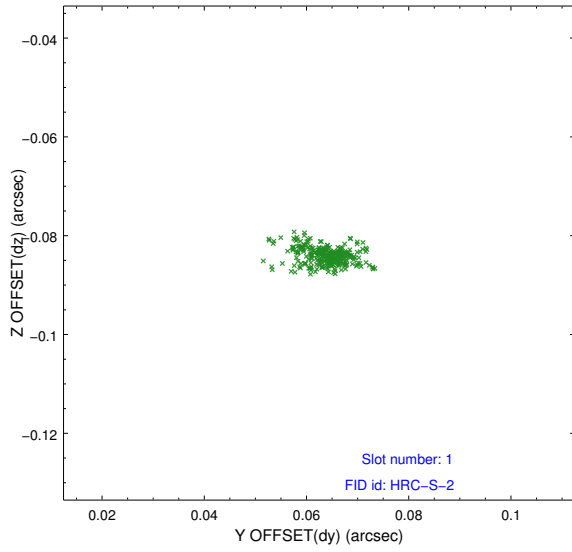


## 2.5 FID Slots

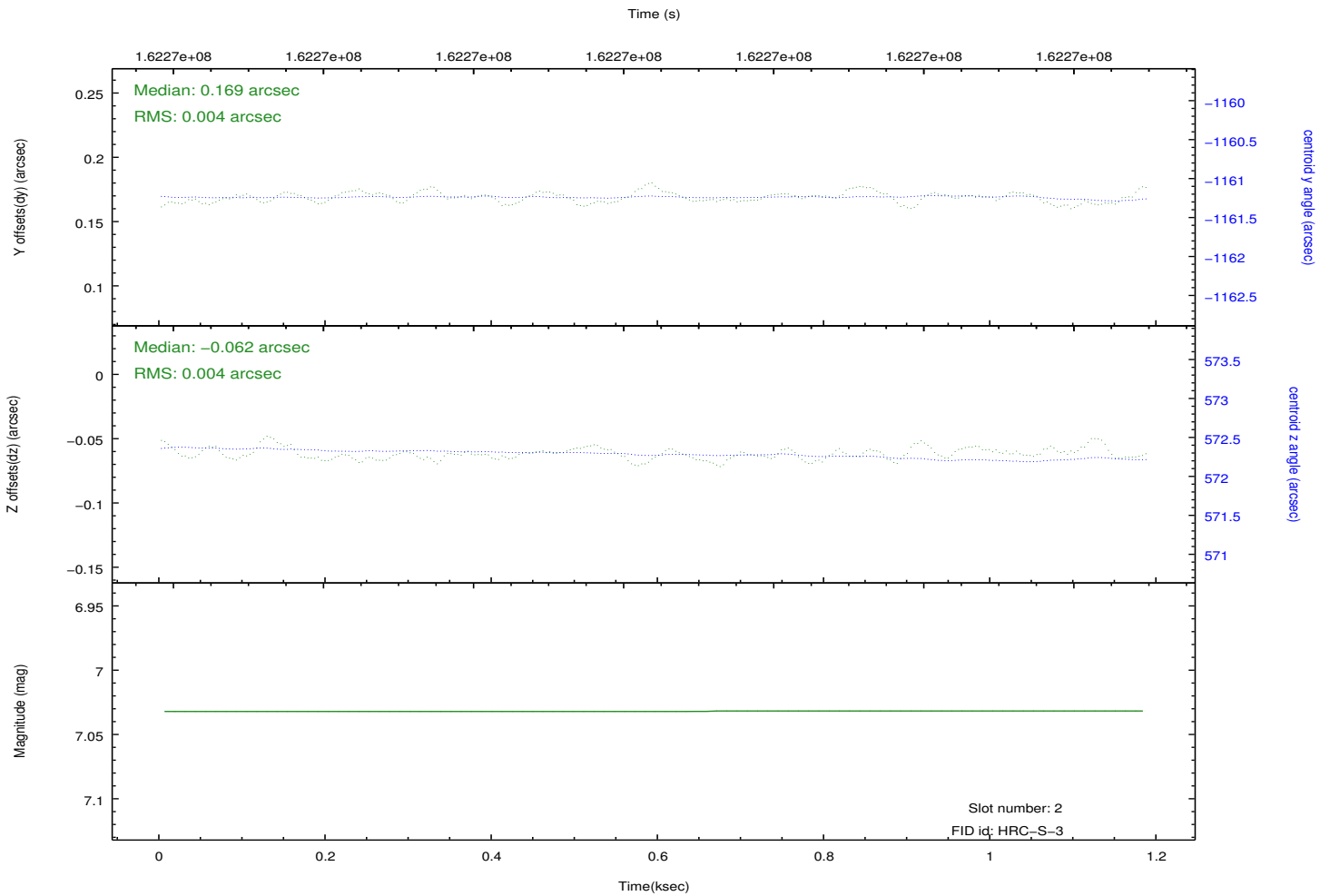
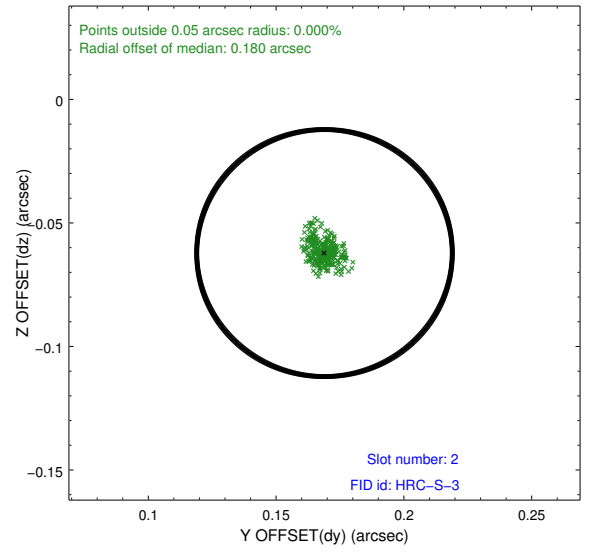
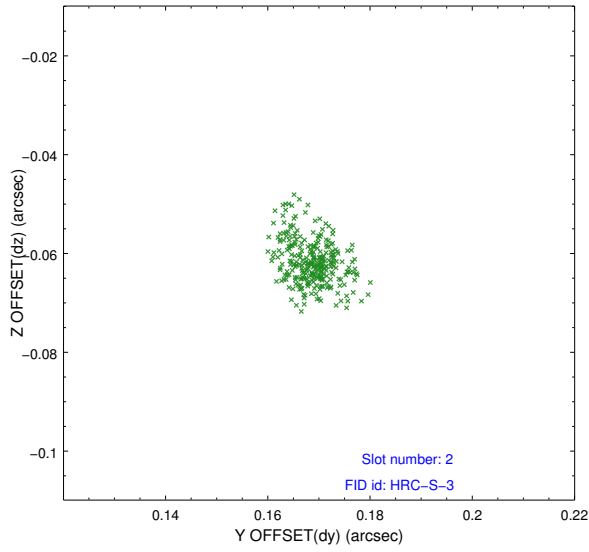
### 2.5.1 Slot 0



## 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)	2012.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.143

## A.2 Comments