

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12873 - L2 Version 2  
Chandra X-Ray Center

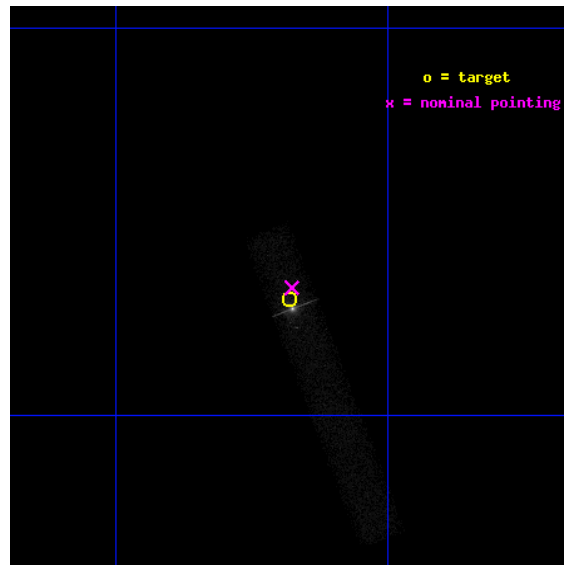
L2 Processing Date : Jul 8 2012

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# 1 Front

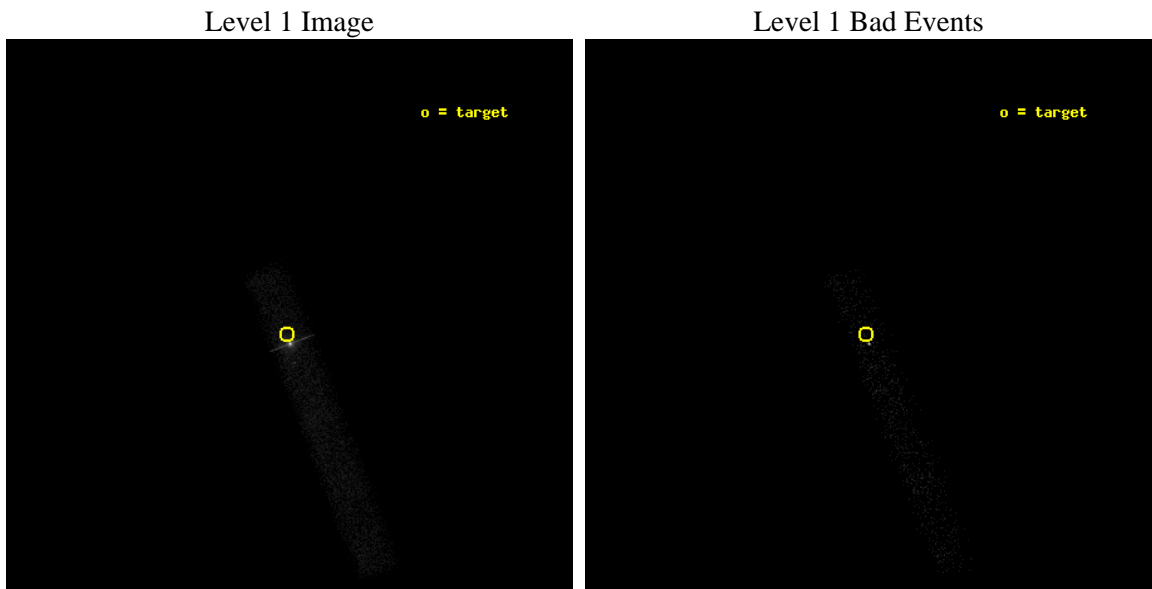
seq_num	702506	Sequence number
obs_id	12873	Observation id
title	Chandra Survey of Hard X-ray Selected Merging AGN Hosts	Proposal t
observer	Dr. Richard Mushotzky	Principal investigator
object	2MASX J11454045-1827149	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	176.42	Observer's specified target RA [deg]
dec_targ	-18.45	Observer's specified target Dec [deg]
ra_nom	176.41904942805	Nominal RA [deg]
dec_nom	-18.445218850603	Nominal Dec [deg]
roll_nom	68.976507203677	Nominal Roll [deg]
revision	2	Processing version of data
ontime	16009.99904573	Sum of GTIs [s]
livetime	14520.224057437	Livetime [s]
ontime7	16009.99904573	Sum of GTIs [s]
l2events	39137	Number of level 2 events



## 2 OBI

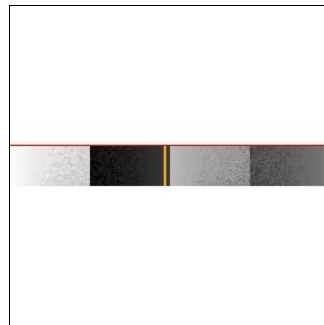
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	16009.99904573	Sum of GTIs [s]
caldbver	4.5.0	&#160	ontime7	16009.99904573	Sum of GTIs [s]
date	2012-07-08T04:59:00	Date and time of file creation	l1events	64693	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

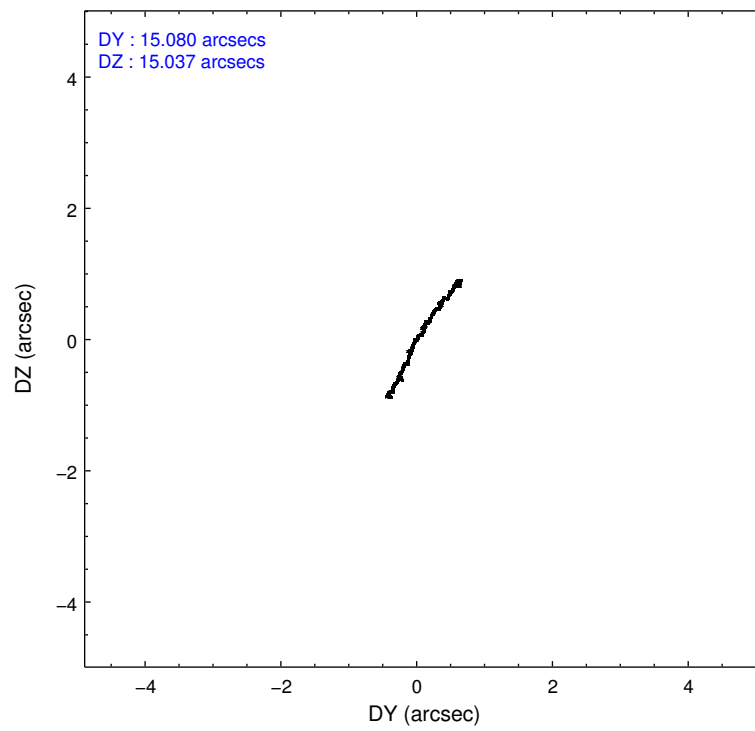
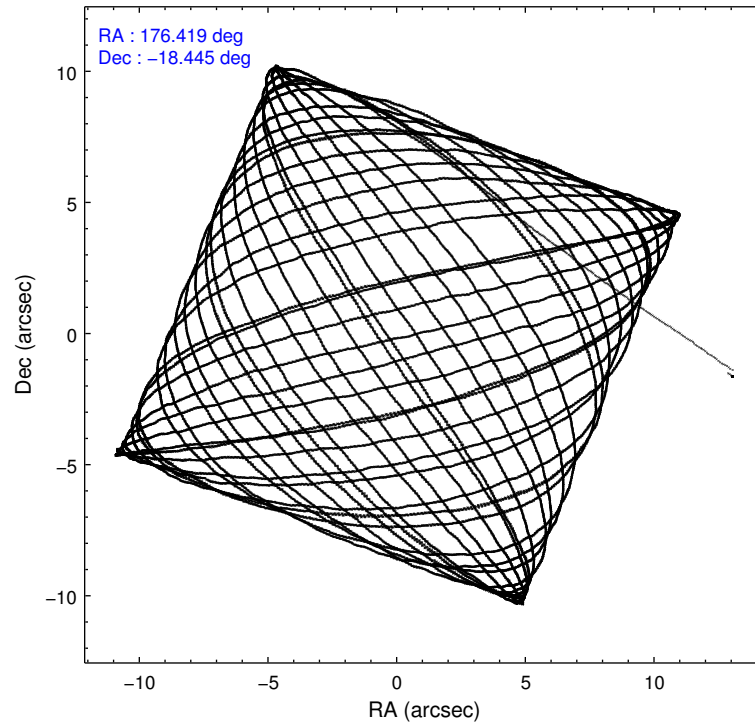
	<b>ccd 7</b>
level 1 events	64693
rejected events	23838
rejected %	<b>36%</b>

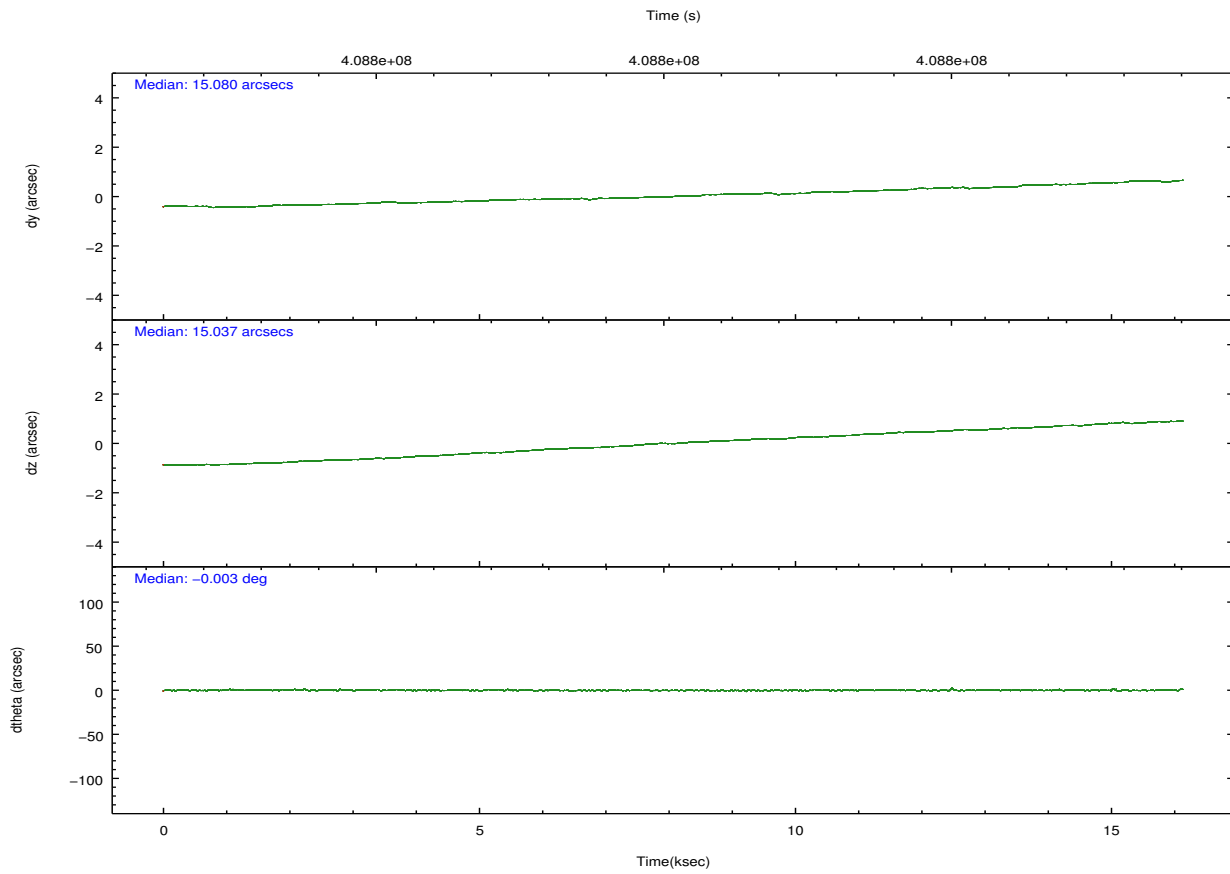
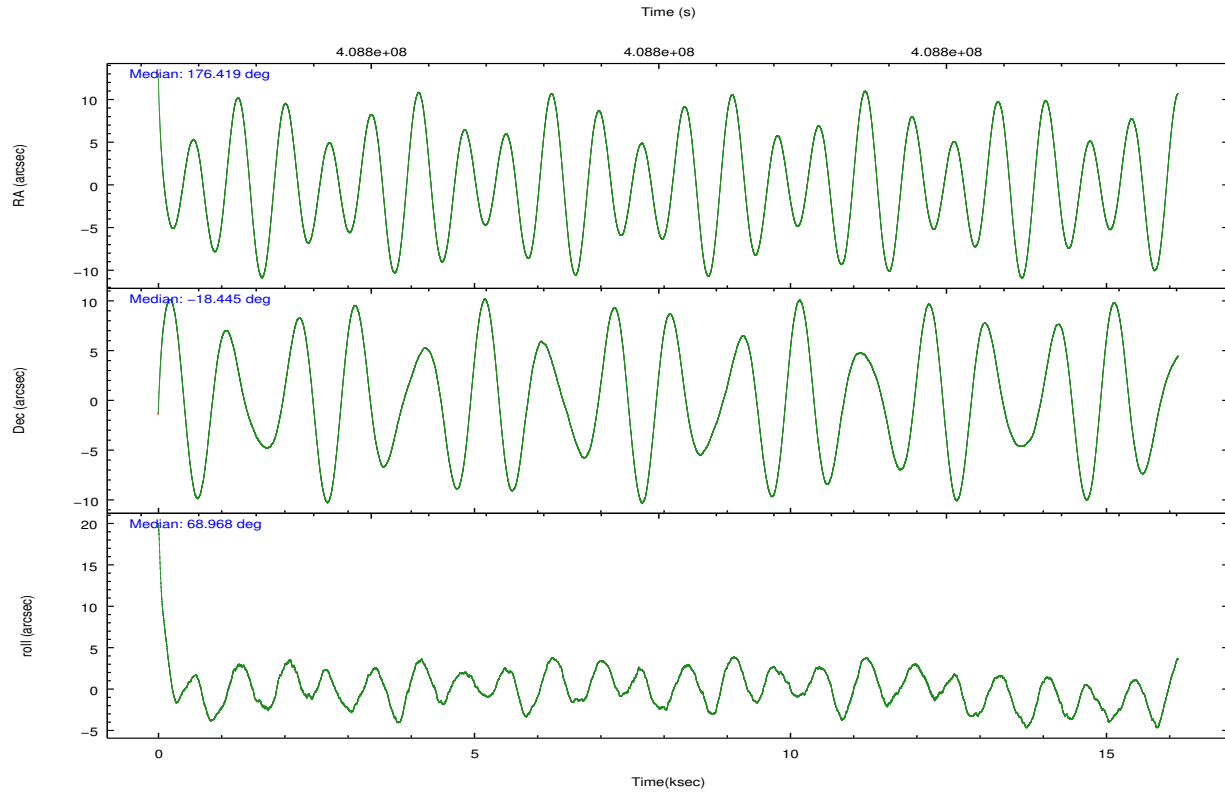
	<b>ccd 7</b>
grade 0 events	7322
	11%
grade 1 events	1021
	1%
grade 2 events	8664
	13%
grade 3 events	4427
	6%
grade 4 events	4221
	6%
grade 5 events	6480
	10%
grade 6 events	16223
	25%
grade 7 events	16335
	25%

## 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	176.423942	176.4190494280474	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-18.472187	-18.44521885060347	Subarray start row	449	449
[deg] Pointing Roll	68.821423	68.97650720367712	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)	408792227.184000	408791198.52346			
Observation start date	2010-12-15T09:22:41	2010-12-15T09:06:38			
[s] Observation end time (MET)	408808227.184000	408809146.27439			
Observation end date	2010-12-15T13:49:21	2010-12-15T14:05:46			
Read mode	TIMED	TIMED			

## 2.3 Aspect



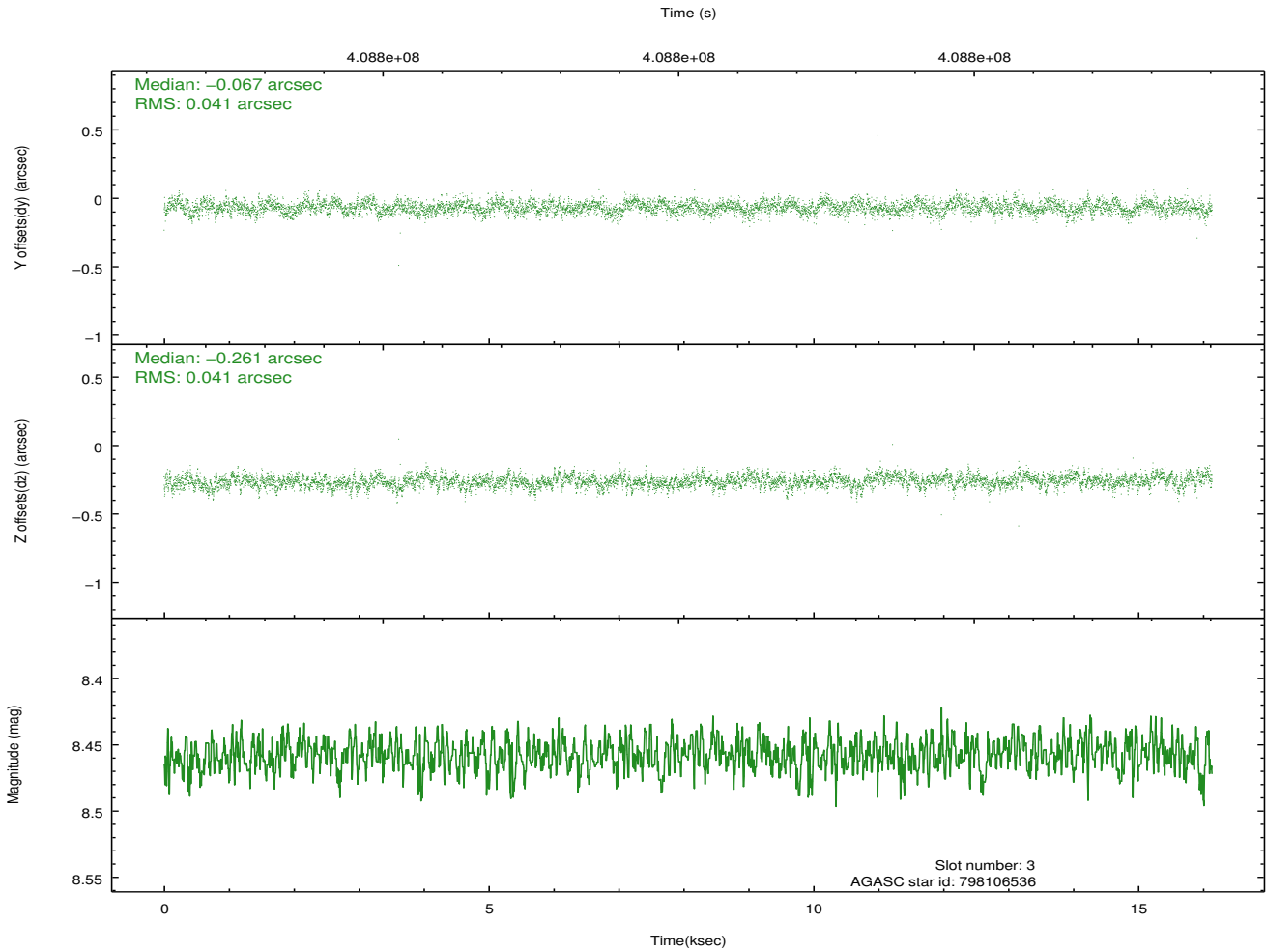
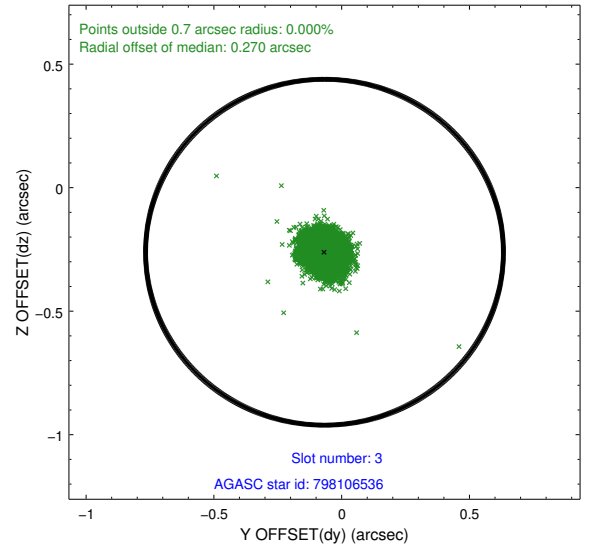
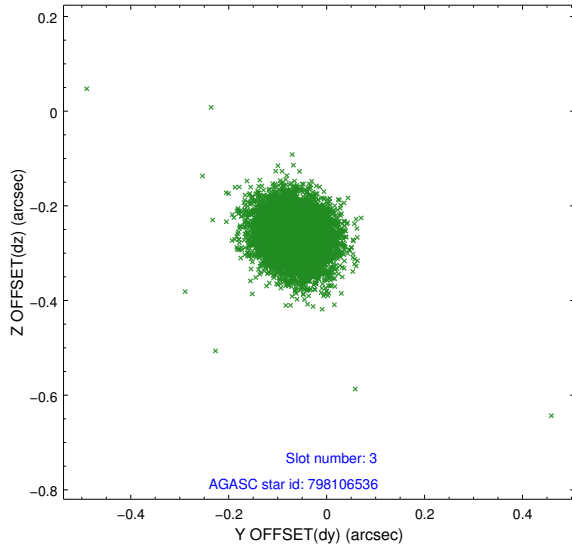


### Slot Statistics

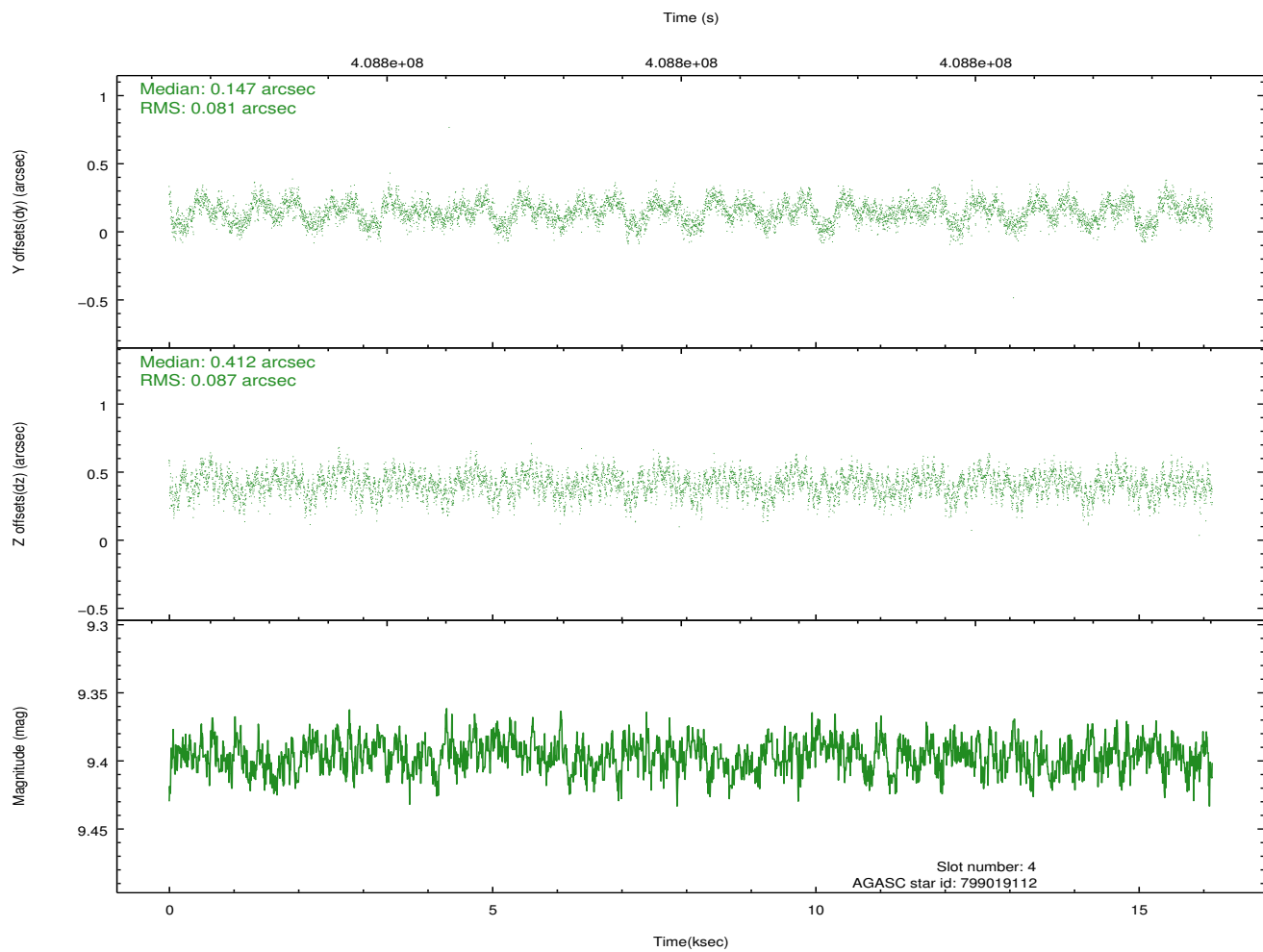
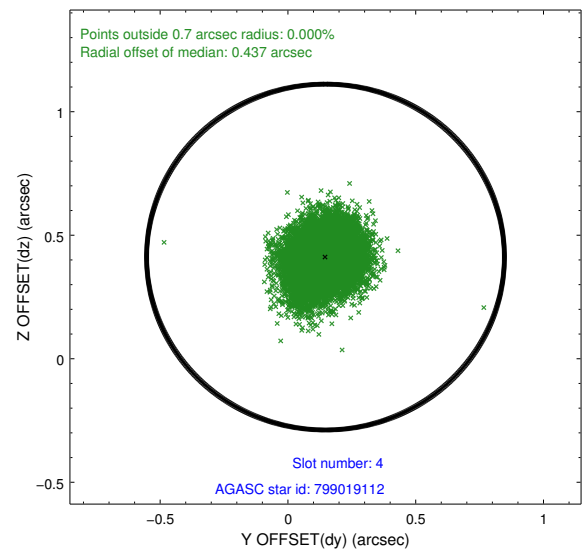
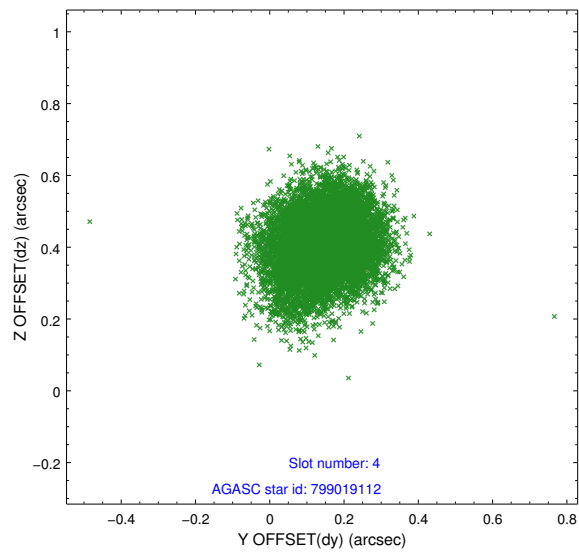
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	3936	-0.124	-0.086	0.007	0.012	0.000000	0.000000	-768.25	-1736.47
1	FID	ACIS-S-4	7.00	3936	0.138	0.061	0.011	0.018	0.000000	0.000000	2145.20	171.82
2	FID	ACIS-S-6	7.14	3935	-0.041	0.033	0.012	0.022	0.000000	0.000000	394.20	809.53
3	GUIDE	798106536	8.46	7872	-0.067	-0.261	0.062	0.098	175.980796	-18.562667	-851.98	1291.77
4	GUIDE	799019112	9.40	7859	0.147	0.412	0.128	0.200	176.662800	-19.007037	-1501.86	-1453.28
5	GUIDE	799019872	8.22	7869	0.096	0.210	0.073	0.123	176.862532	-19.196058	-1892.79	-2331.79
6	GUIDE	799019880	8.56	7867	0.084	0.135	0.086	0.133	176.856065	-18.933274	-1017.77	-1972.26
7	GUIDE	798102392	8.74	7868	-0.257	-0.498	0.114	0.185	175.898726	-18.097375	605.89	2161.76

## 2.4 Star Slots

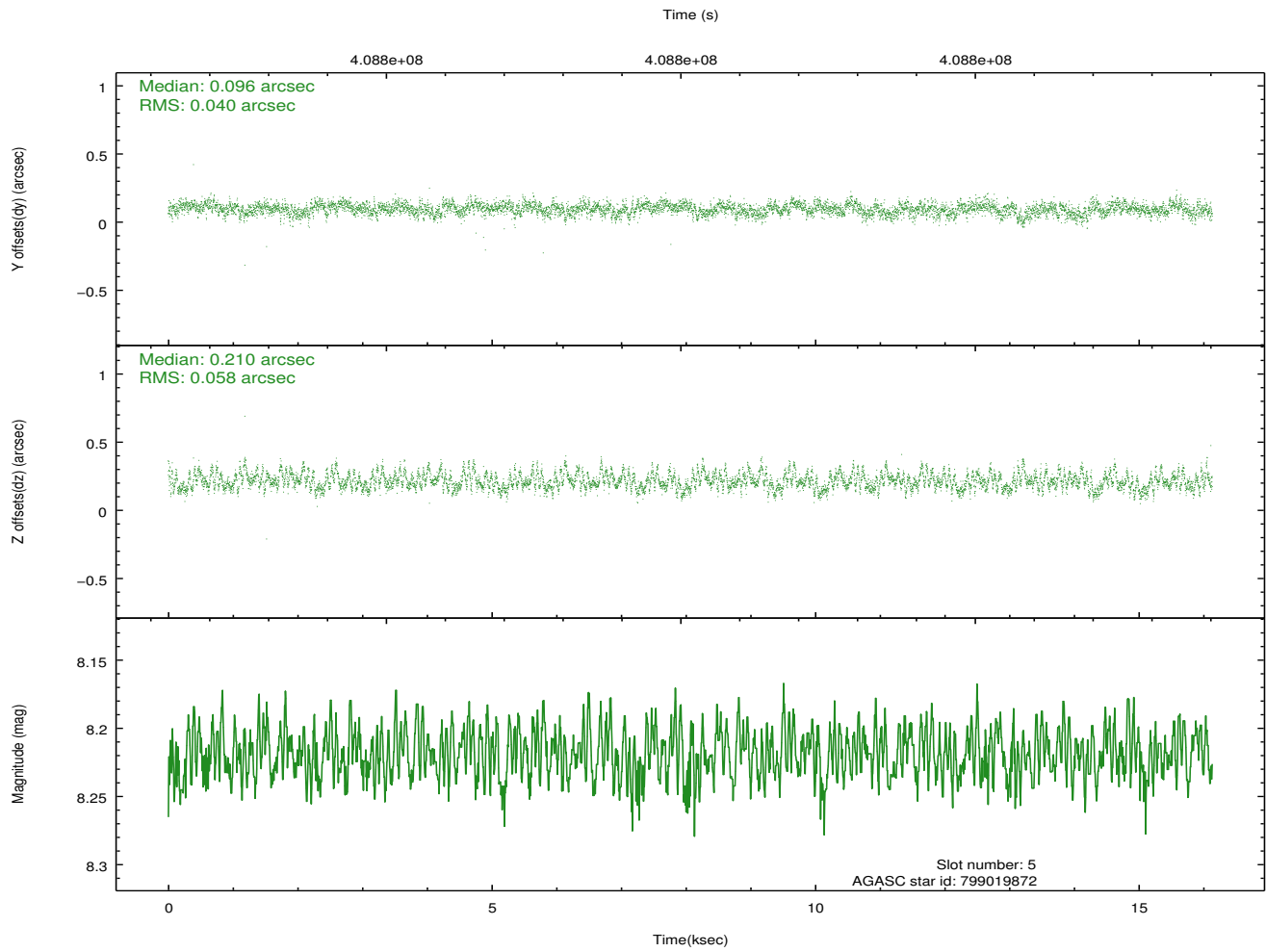
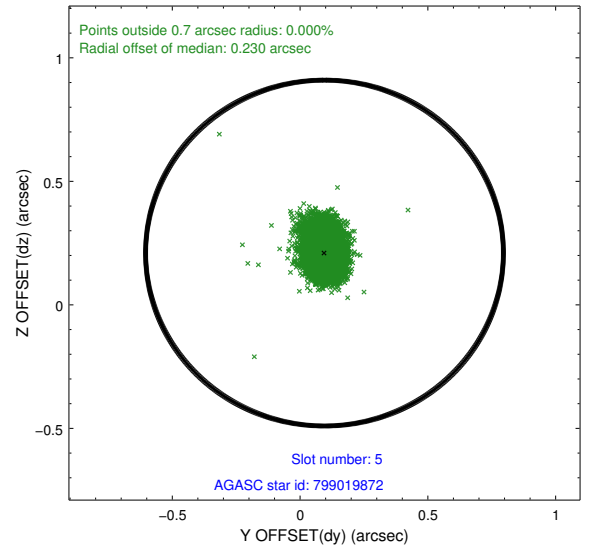
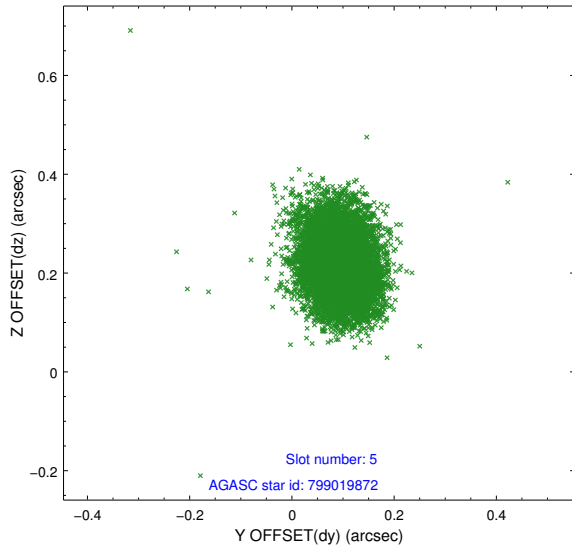
### 2.4.1 Slot 3



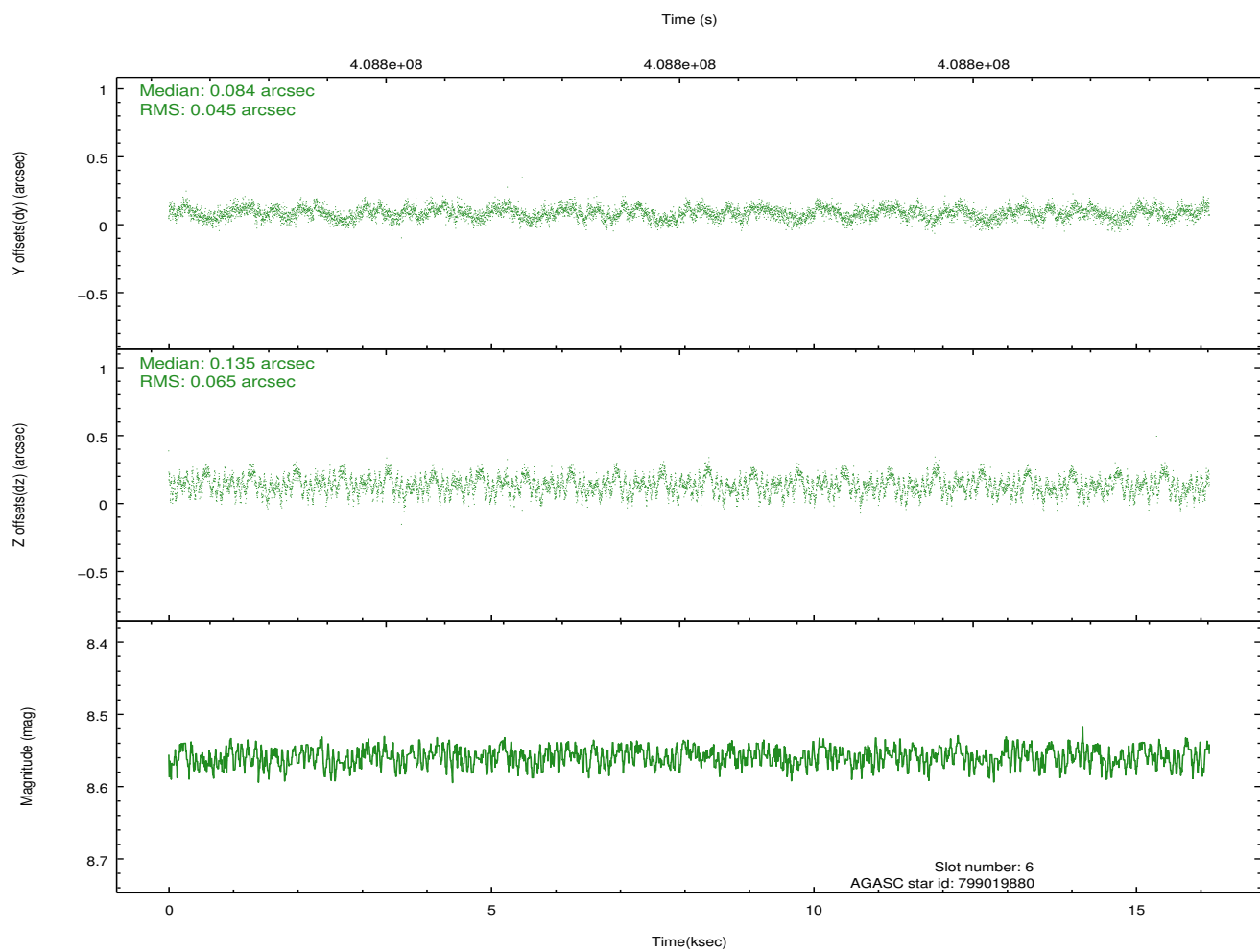
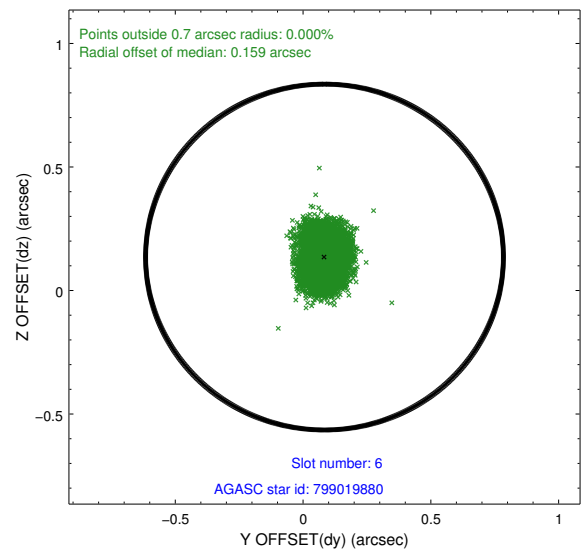
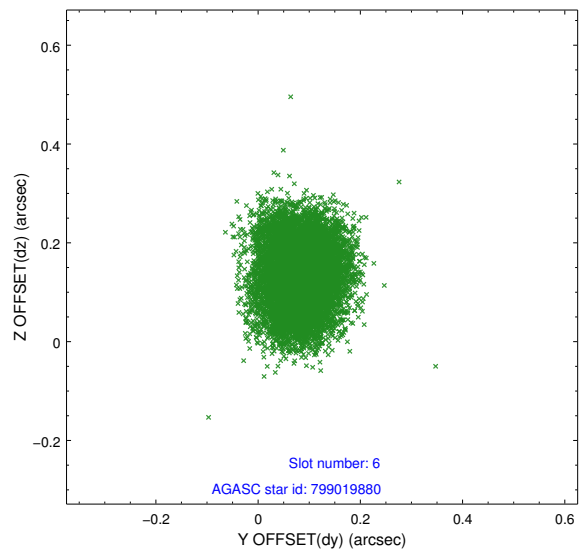
## 2.4.2 Slot 4



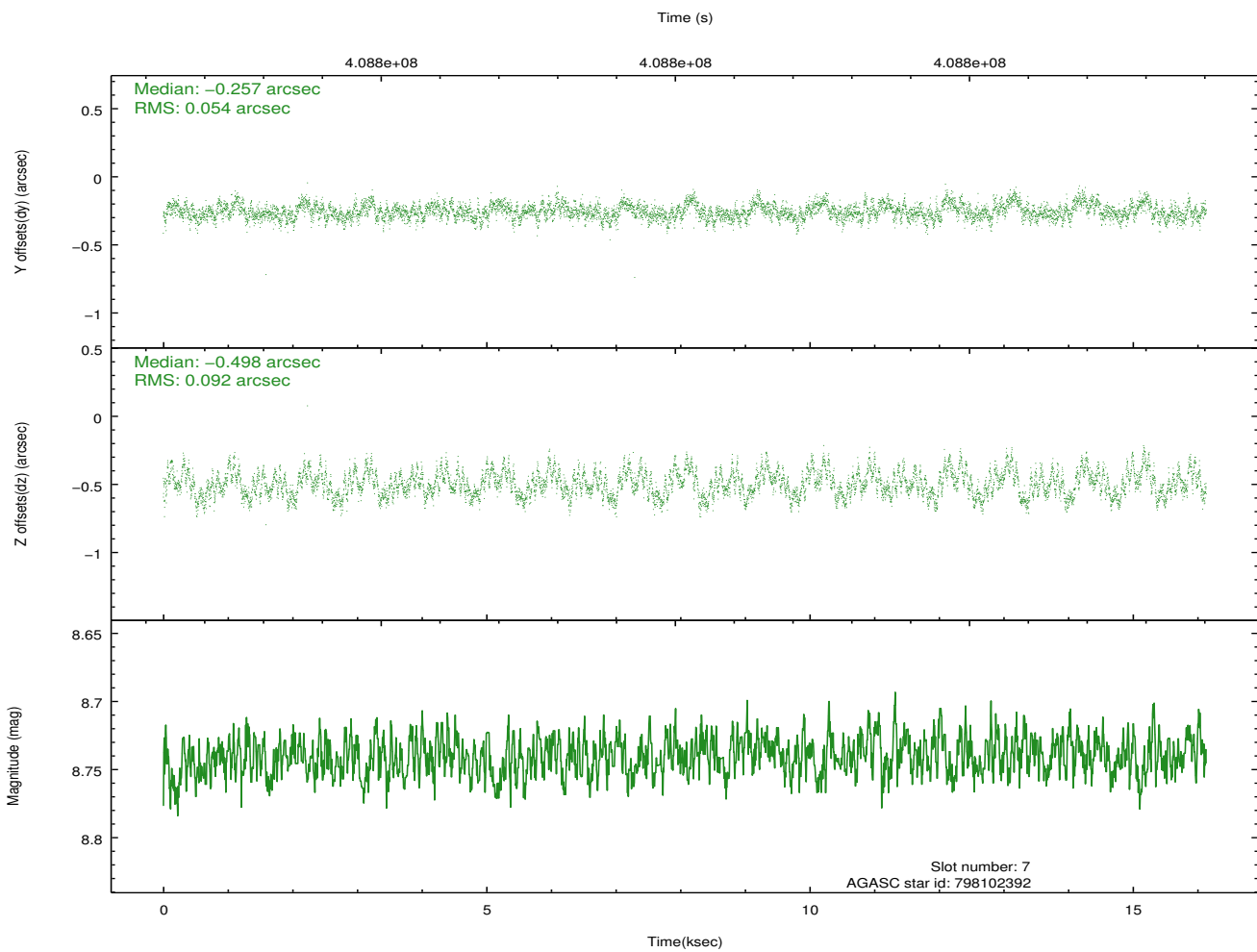
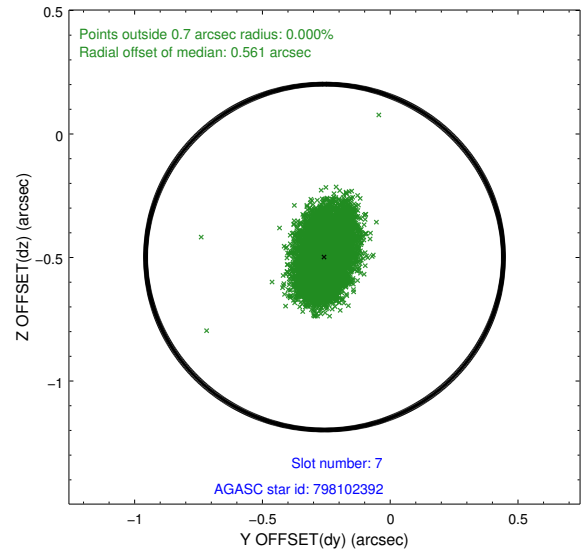
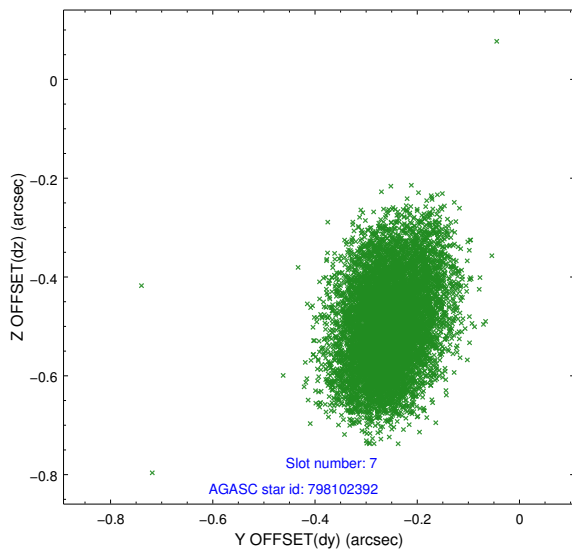
### 2.4.3 Slot 5



## 2.4.4 Slot 6

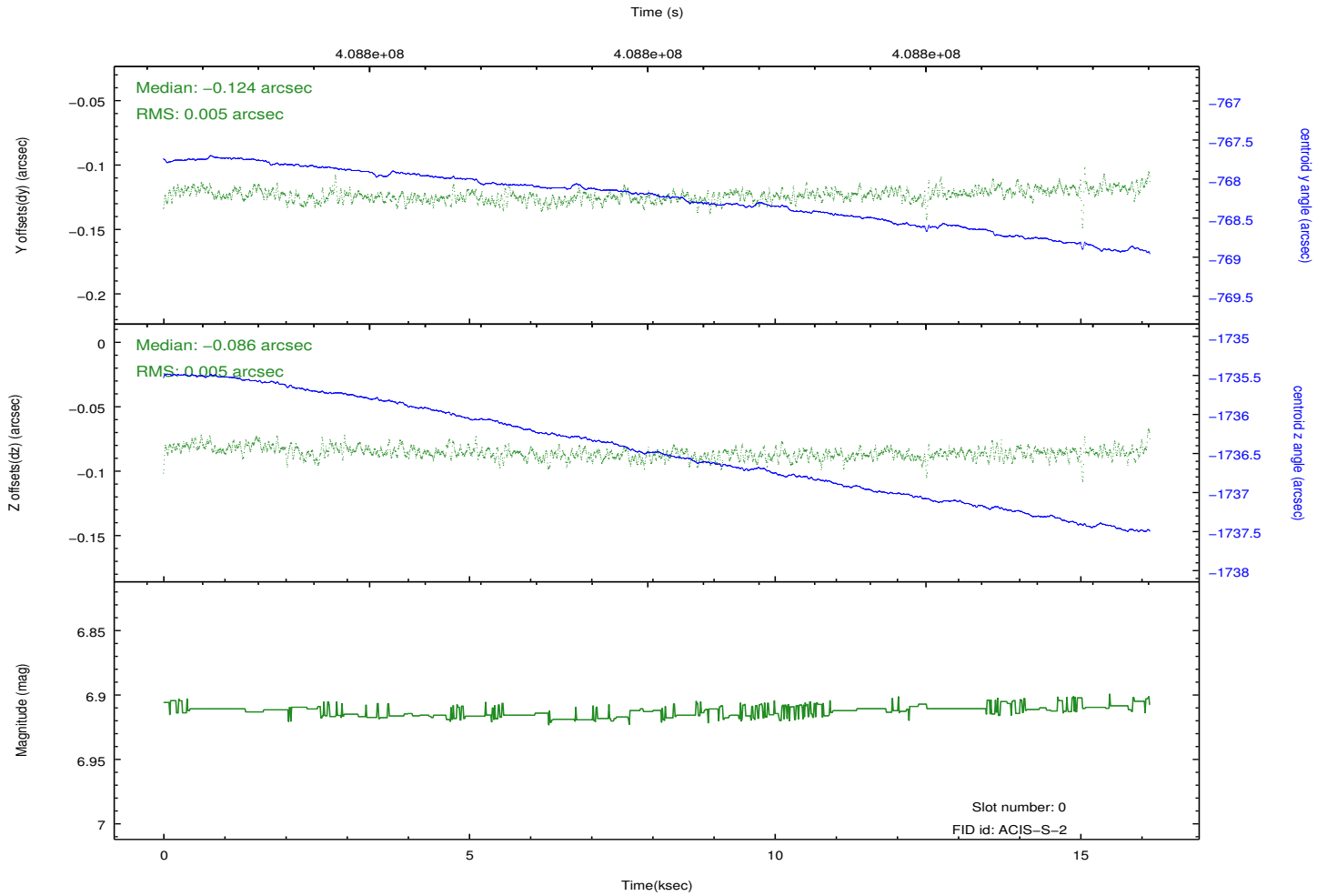
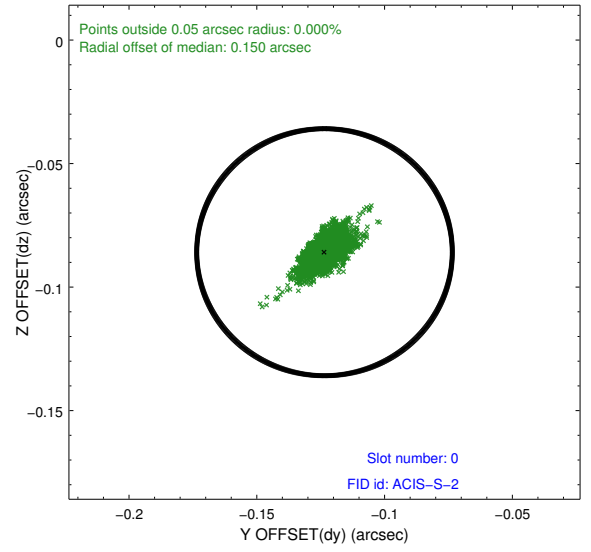
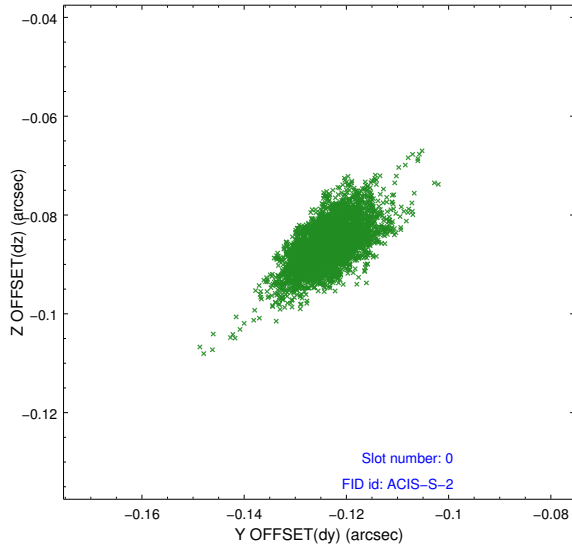


## 2.4.5 Slot 7

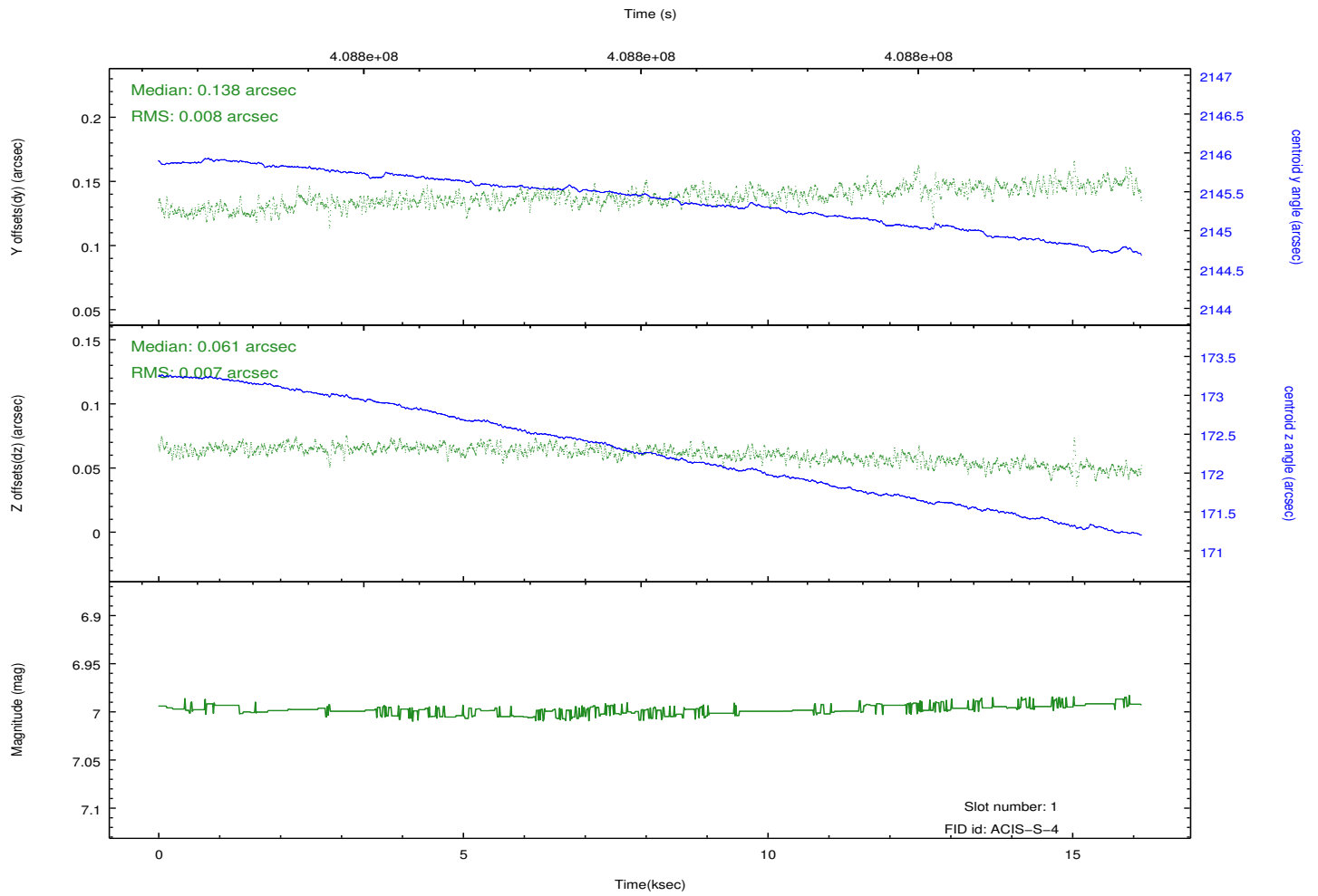
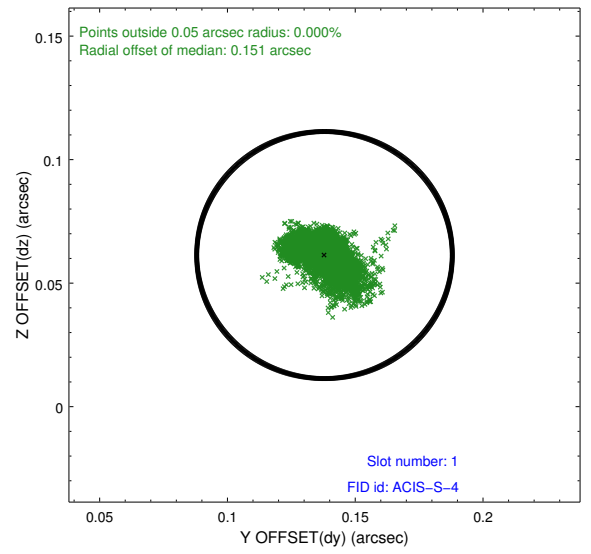
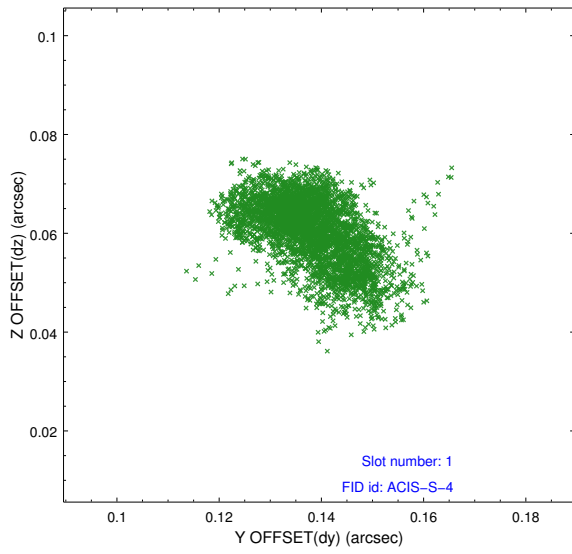


## 2.5 FID Slots

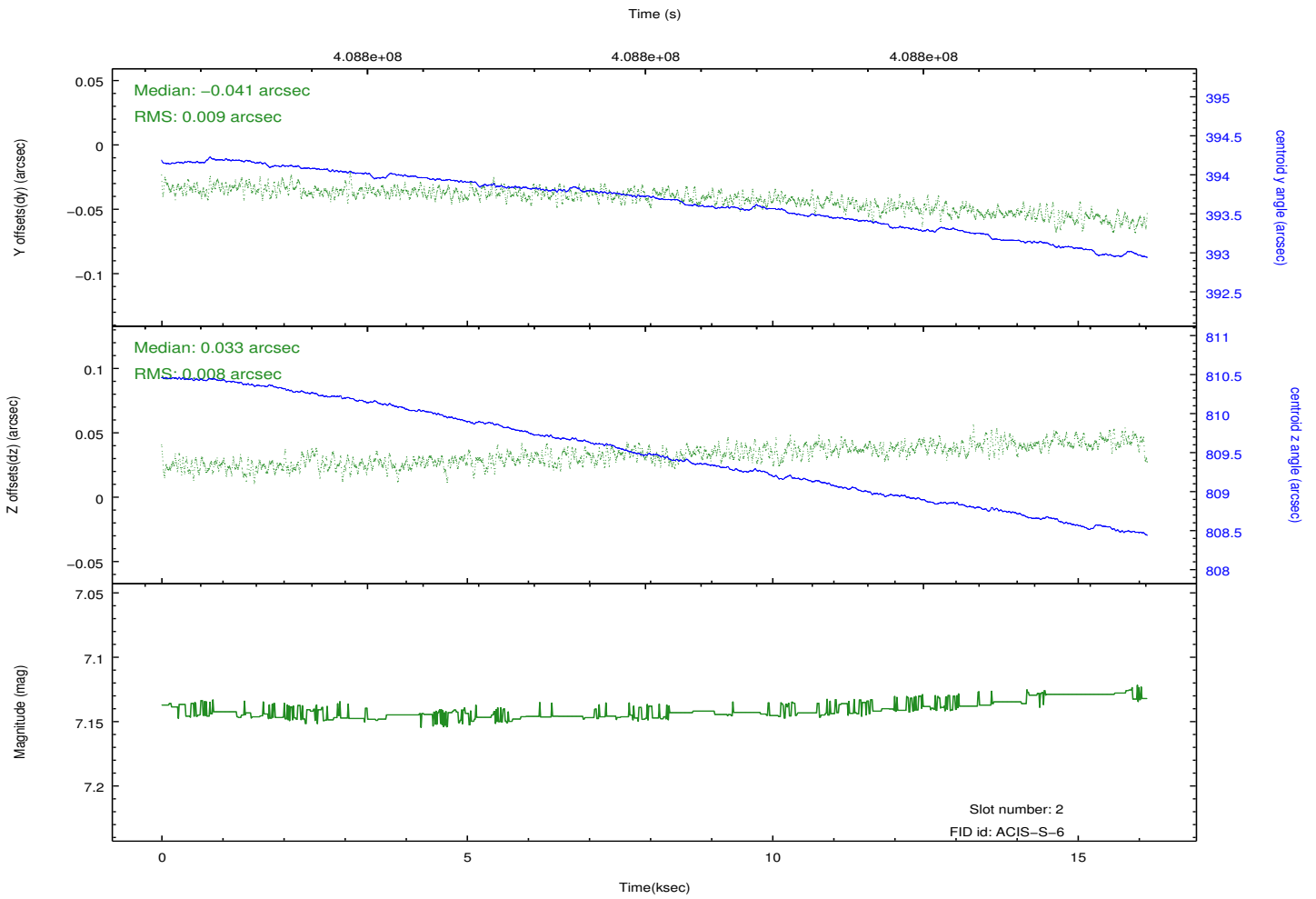
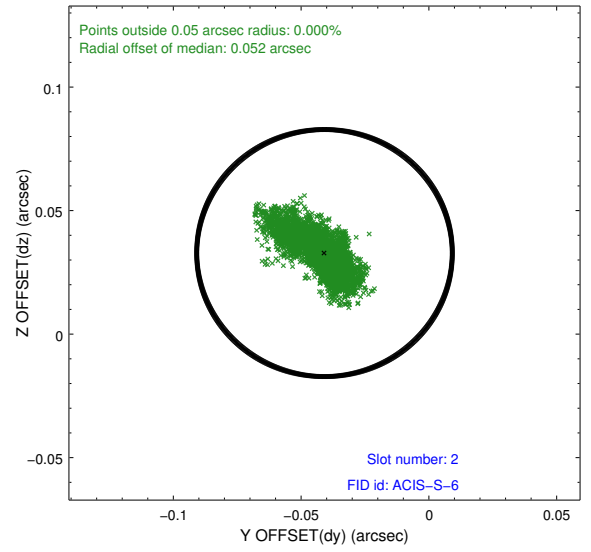
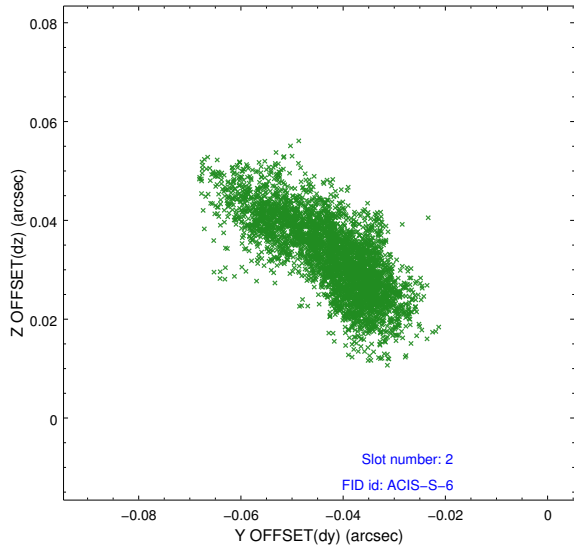
### 2.5.1 Slot 0



## 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)	2012.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.00999904573

## A.2 Comments