

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7489 - L2 Version 2  
Chandra X-Ray Center

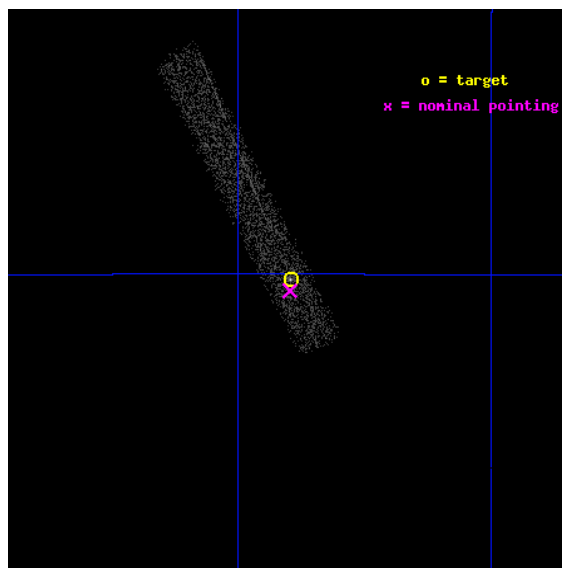
L2 Processing Date : Apr 28 2012

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# 1 Front

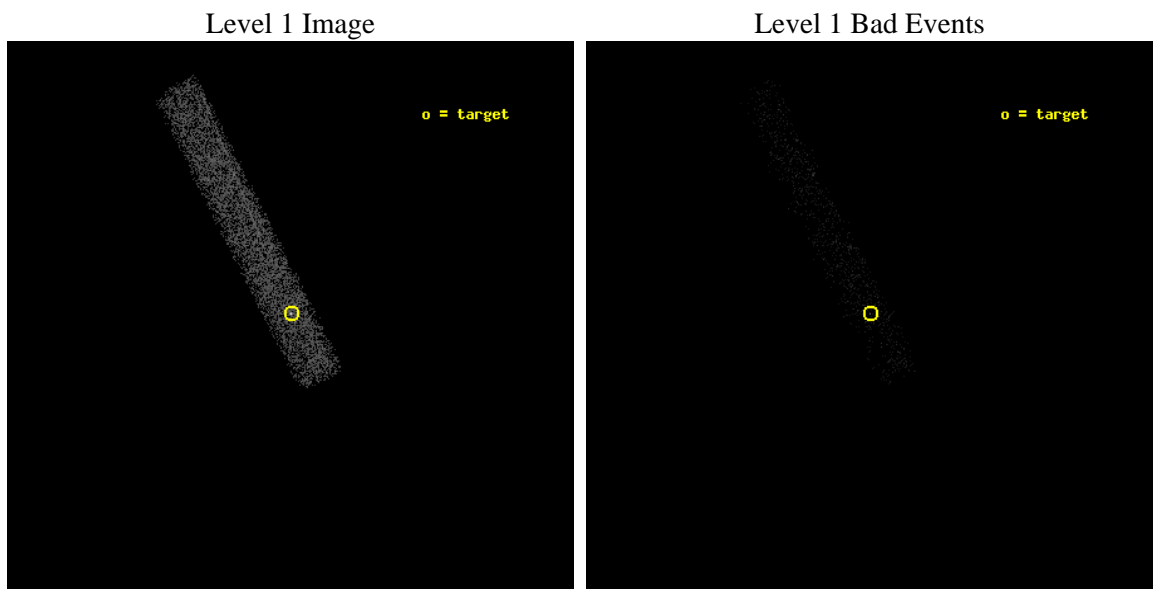
seq_num	400599	Sequence number
obs_id	7489	Observation id
title	Chandra observations of the 2007 PSR B1259-63 periastron passage.	&#160
observer	Dr Maria Chernyakova	Principal investigator
object	PSR B1259-63	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	195.698333	Observer's specified target RA [deg]
dec_targ	-63.83575	Observer's specified target Dec [deg]
ra_nom	195.69915297018	Nominal RA [deg]
dec_nom	-63.840603550083	Nominal Dec [deg]
roll_nom	243.02203302693	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5157.1996926069	Sum of GTIs [s]
livetime	4677.3079018746	Livetime [s]
ontime7	5157.1996926069	Sum of GTIs [s]
l2events	5394	Number of level 2 events



## 2 OBI

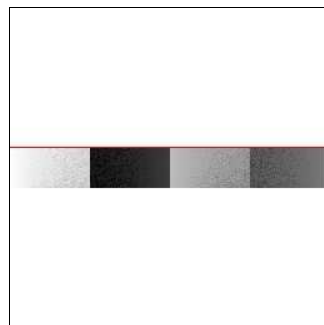
### 2.1 OBI

#### 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	8.4.4	Processing system revision	ontime	5157.1996926069	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime7	5157.1996926069	Sum of GTIs [s]
date	2012-04-28T15:48:01	Date and time of file creation	l1events	12491	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	12491
rejected events	6916
rejected %	55%

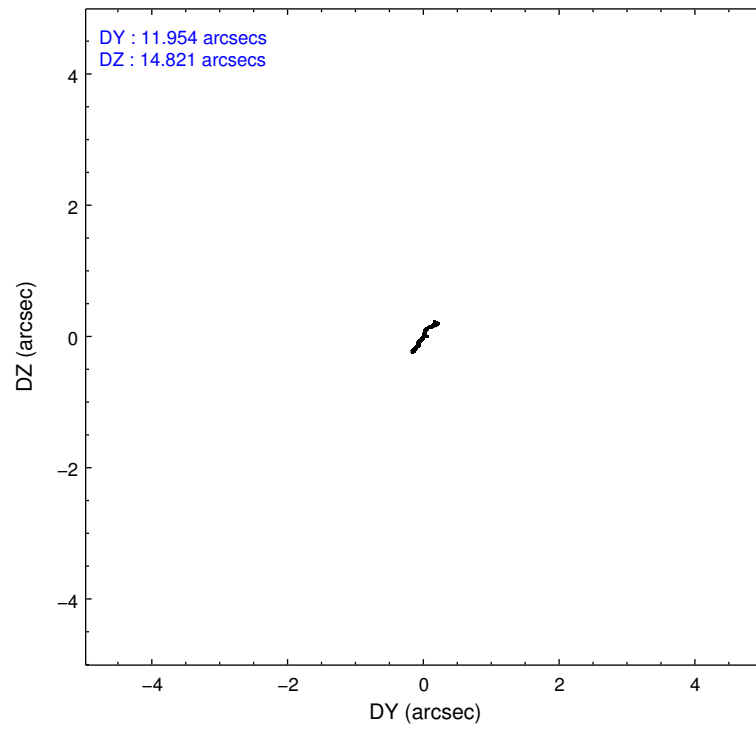
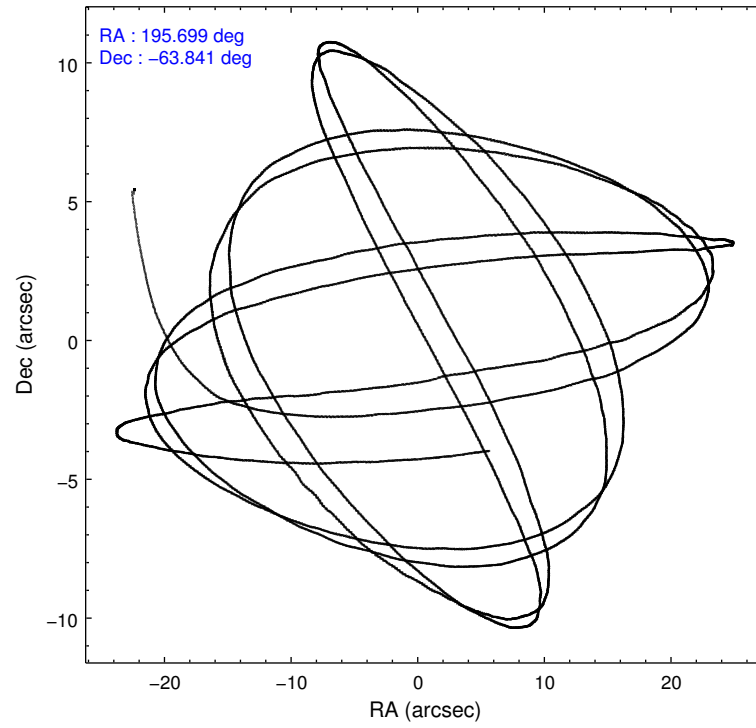
	<b>ccd 7</b>
grade 0 events	799
	6%
grade 1 events	22
	0%
grade 2 events	1254
	10%
grade 3 events	843
	6%
grade 4 events	835
	6%
grade 5 events	1050
	8%
grade 6 events	2752
	22%
grade 7 events	4936
	39%

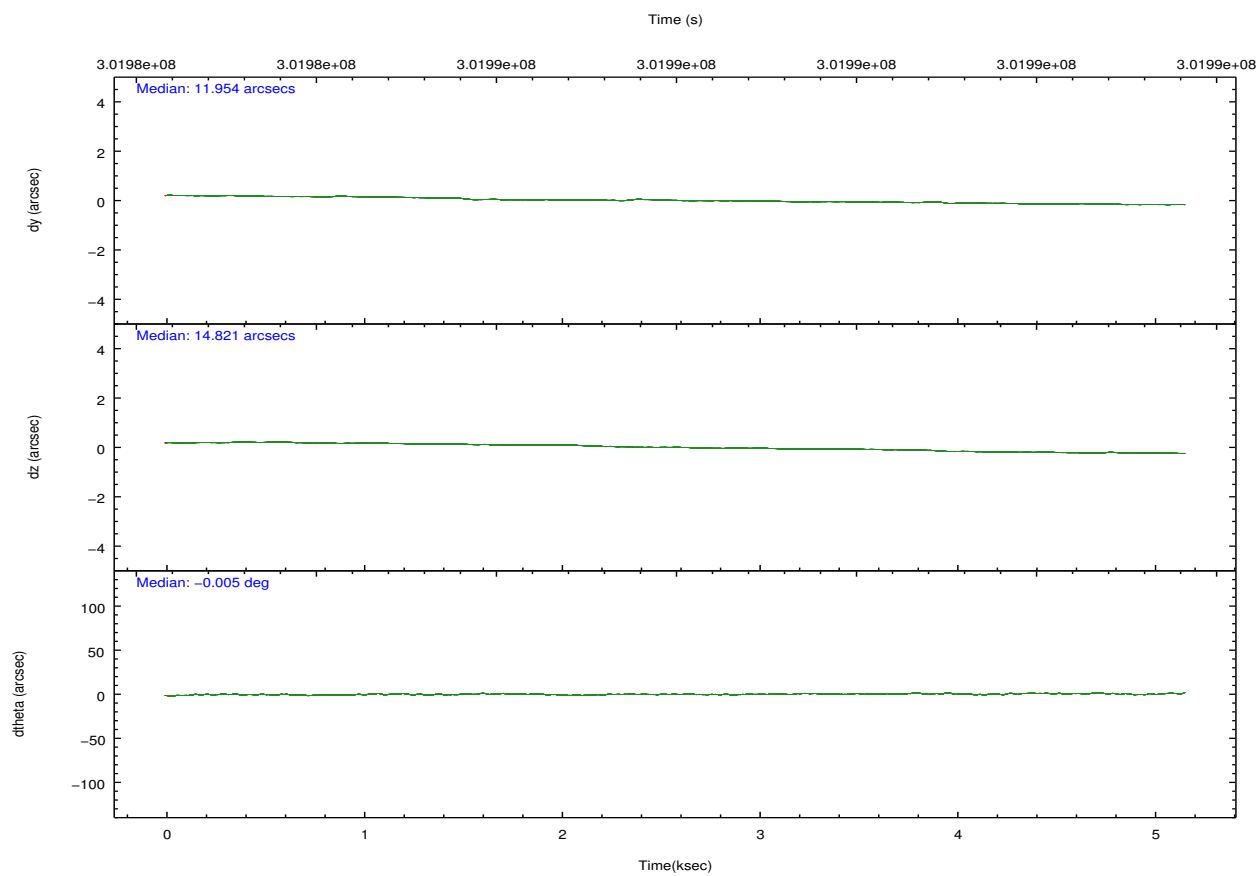
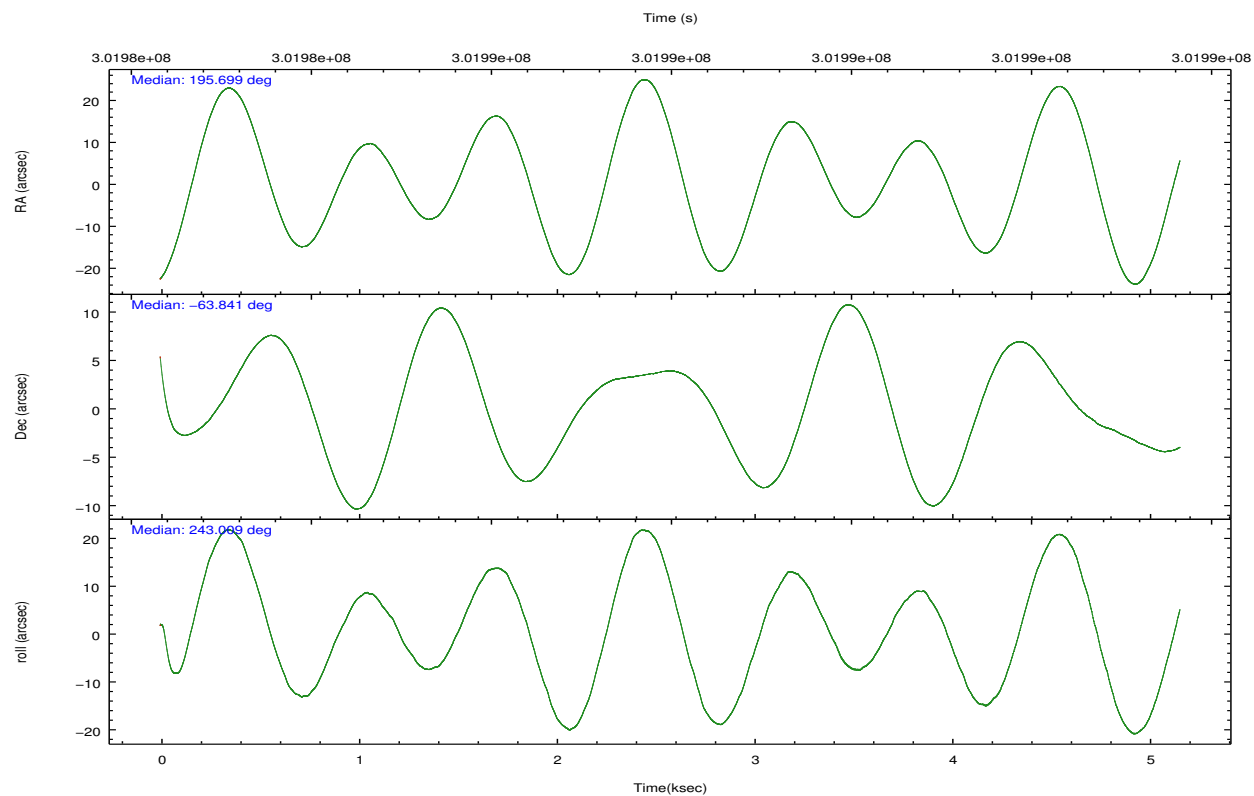


## 2.2 Compared Parameters

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	HETG	HETG	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	195.695119	195.6991529701834	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-63.813299	-63.84060355008334	Subarray start row	449	449
[deg] Pointing Roll	242.861734	243.0220330269283	Subarray row count	128	128
[s] Window start time (MET)	301795265.184000	301795265.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	302054465.184000	302054465.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	301984564.184000	301983318.31232			
Observation start date	2007-07-28T04:34:59	2007-07-28T04:15:18			
[s] Observation end time (MET)	301989564.184000	301990569.16266			
Observation end date	2007-07-28T05:58:19	2007-07-28T06:16:09			
Read mode	TIMED	TIMED			

## 2.3 Aspect



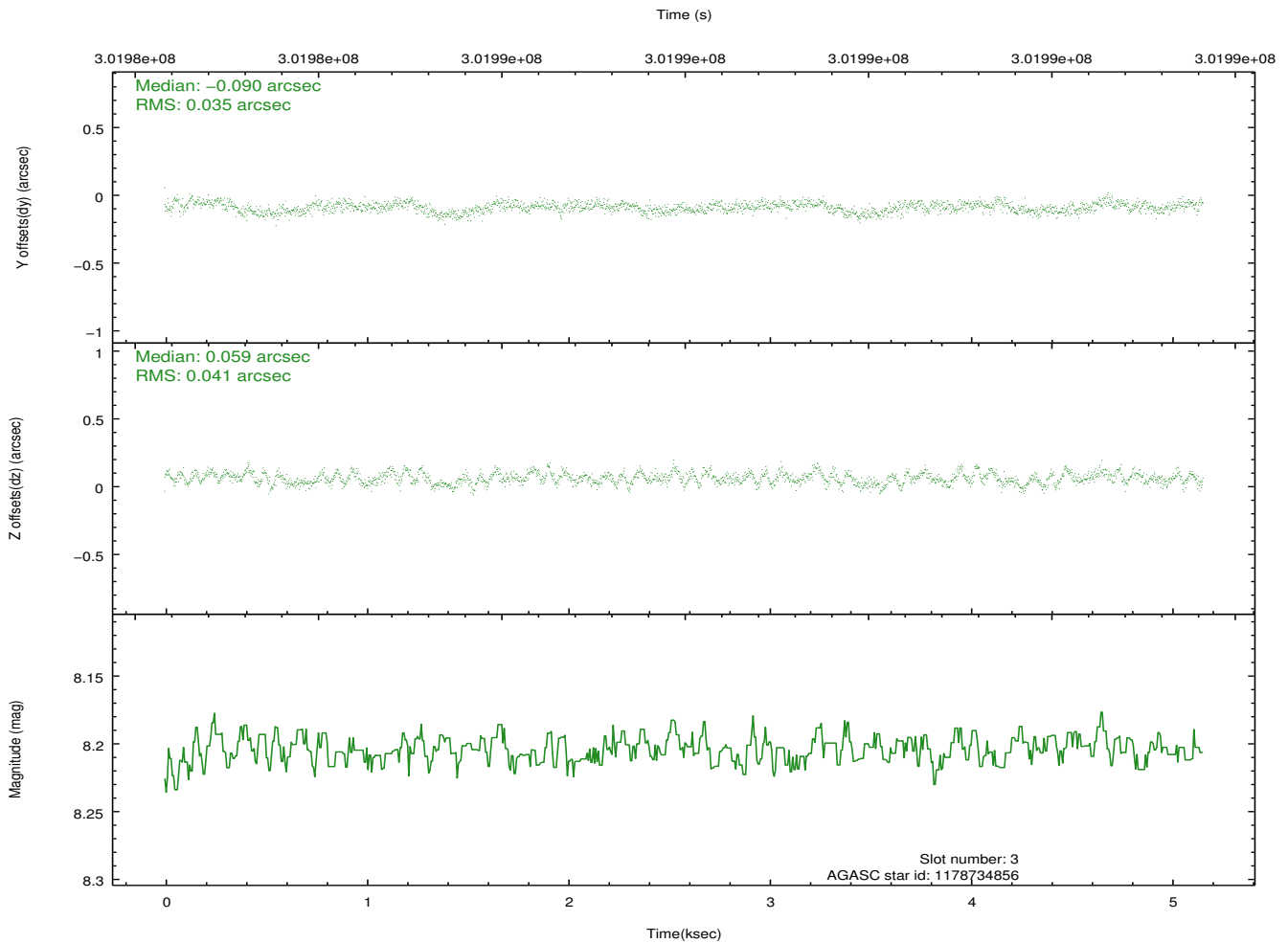
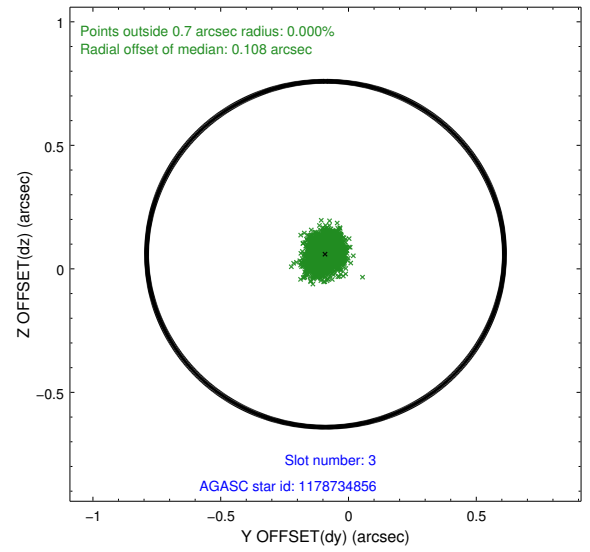
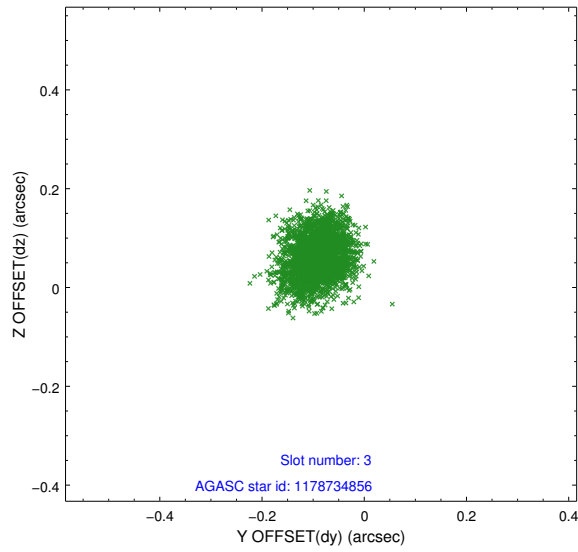


### Slot Statistics

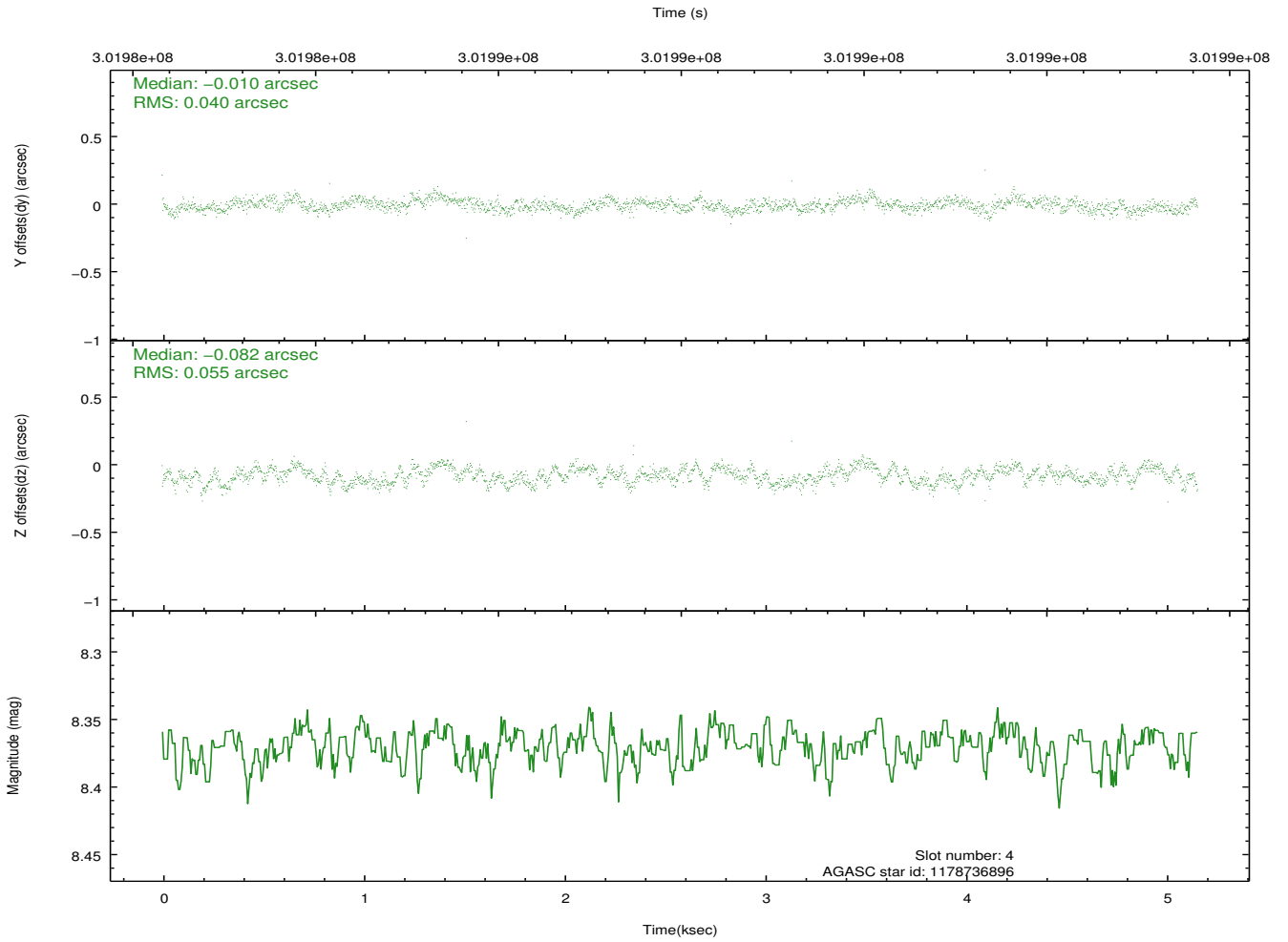
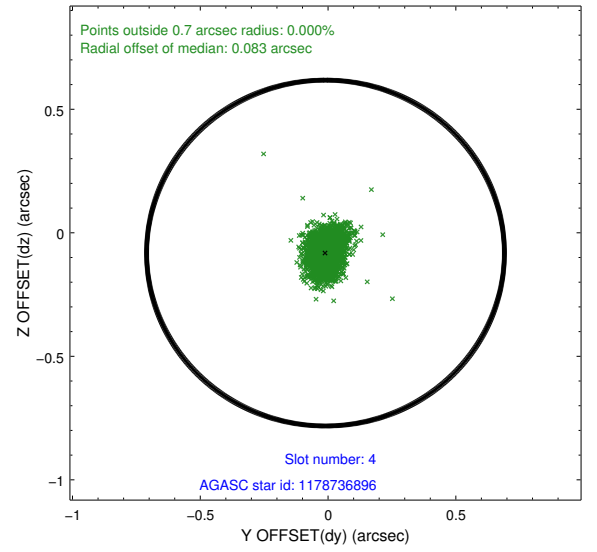
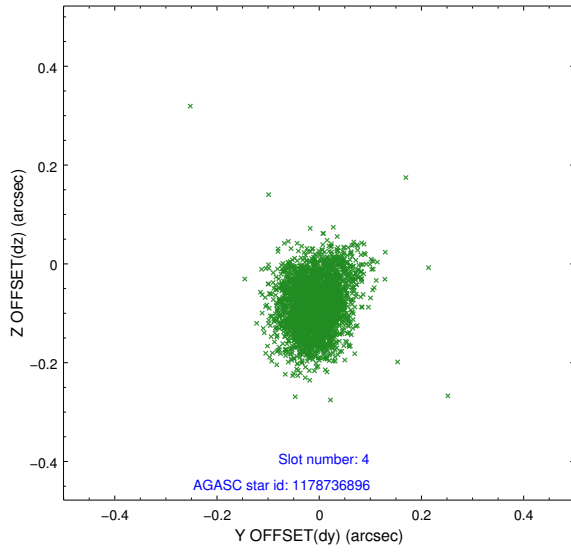
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1259	-0.049	-0.036	0.008	0.014	0.000000	0.000000	-764.88	-1736.19
1	FID	ACIS-S-4	7.19	1259	0.145	0.034	0.008	0.013	0.000000	0.000000	2148.03	171.18
2	FID	ACIS-S-5	7.22	1258	-0.127	0.011	0.008	0.013	0.000000	0.000000	-1816.31	166.12
3	GUIDE	1178734856	8.20	2517	-0.090	0.059	0.058	0.094	195.759625	-63.178913	-2080.12	-948.40
4	GUIDE	1178736896	8.37	2516	-0.010	-0.082	0.071	0.114	194.755483	-63.640622	141.10	-1614.99
5	GUIDE	1178741464	8.65	2514	-0.023	-0.072	0.074	0.117	196.205525	-63.491457	-1402.37	202.28
6	GUIDE	1179259632	7.83	2517	0.066	0.103	0.056	0.089	194.903869	-64.371399	2357.93	-177.68
7	GUIDE	1179266488	7.10	2516	0.053	-0.008	0.060	0.097	196.258505	-64.441584	1617.90	1812.76

## 2.4 Star Slots

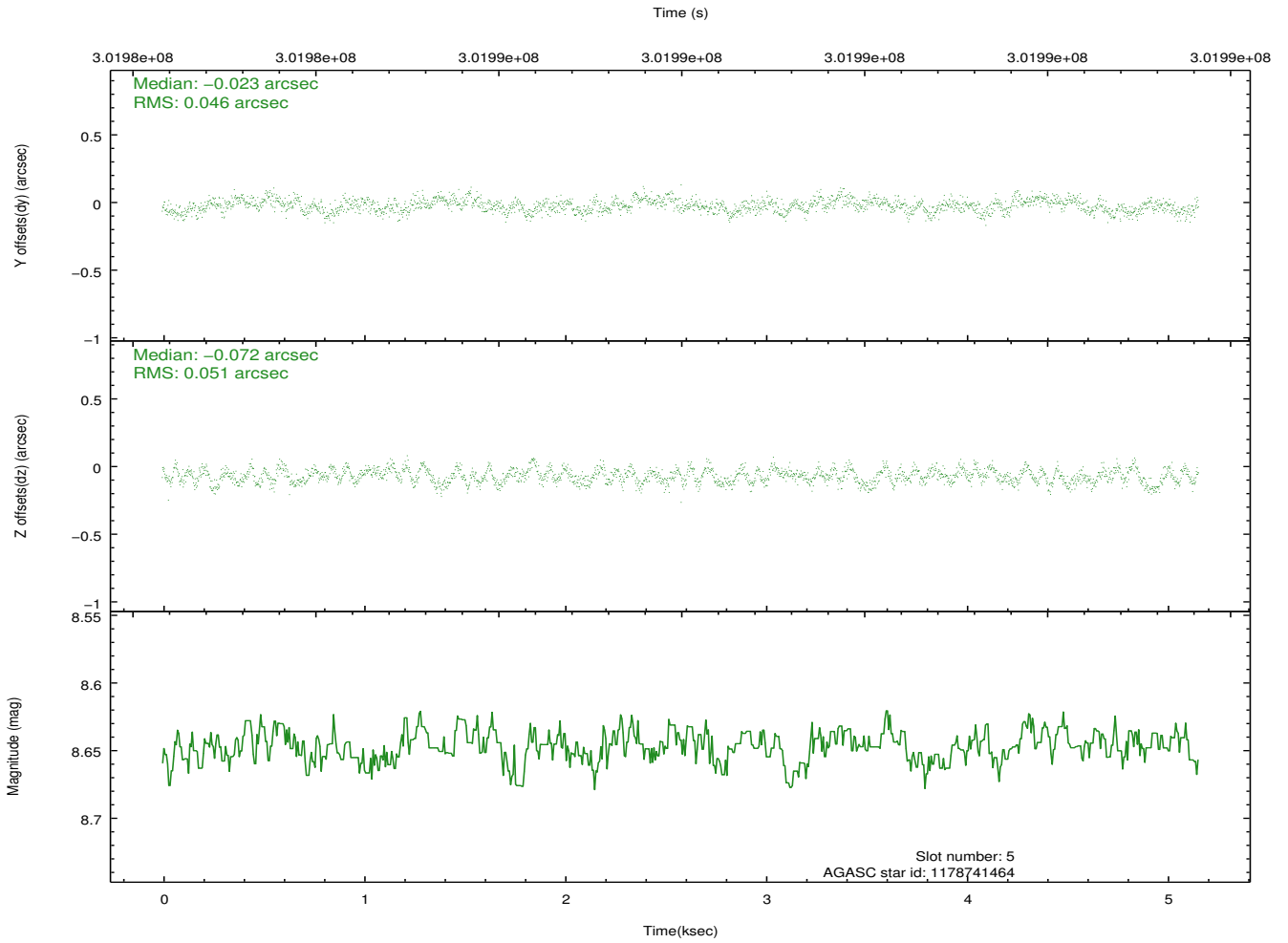
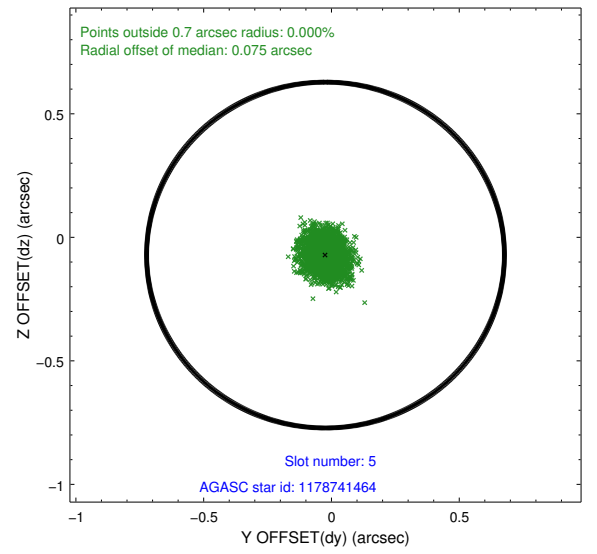
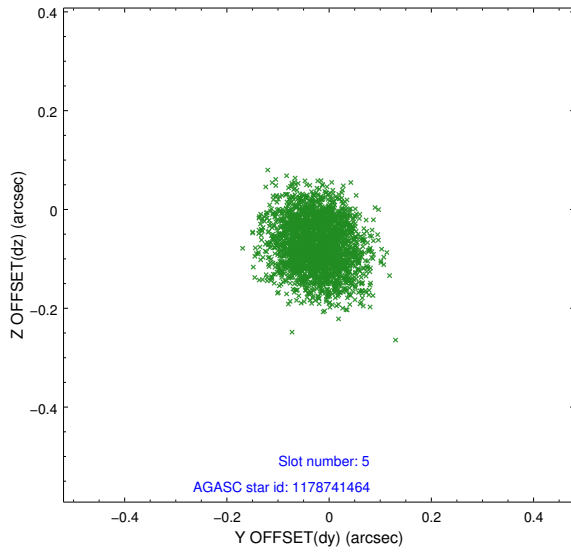
### 2.4.1 Slot 3



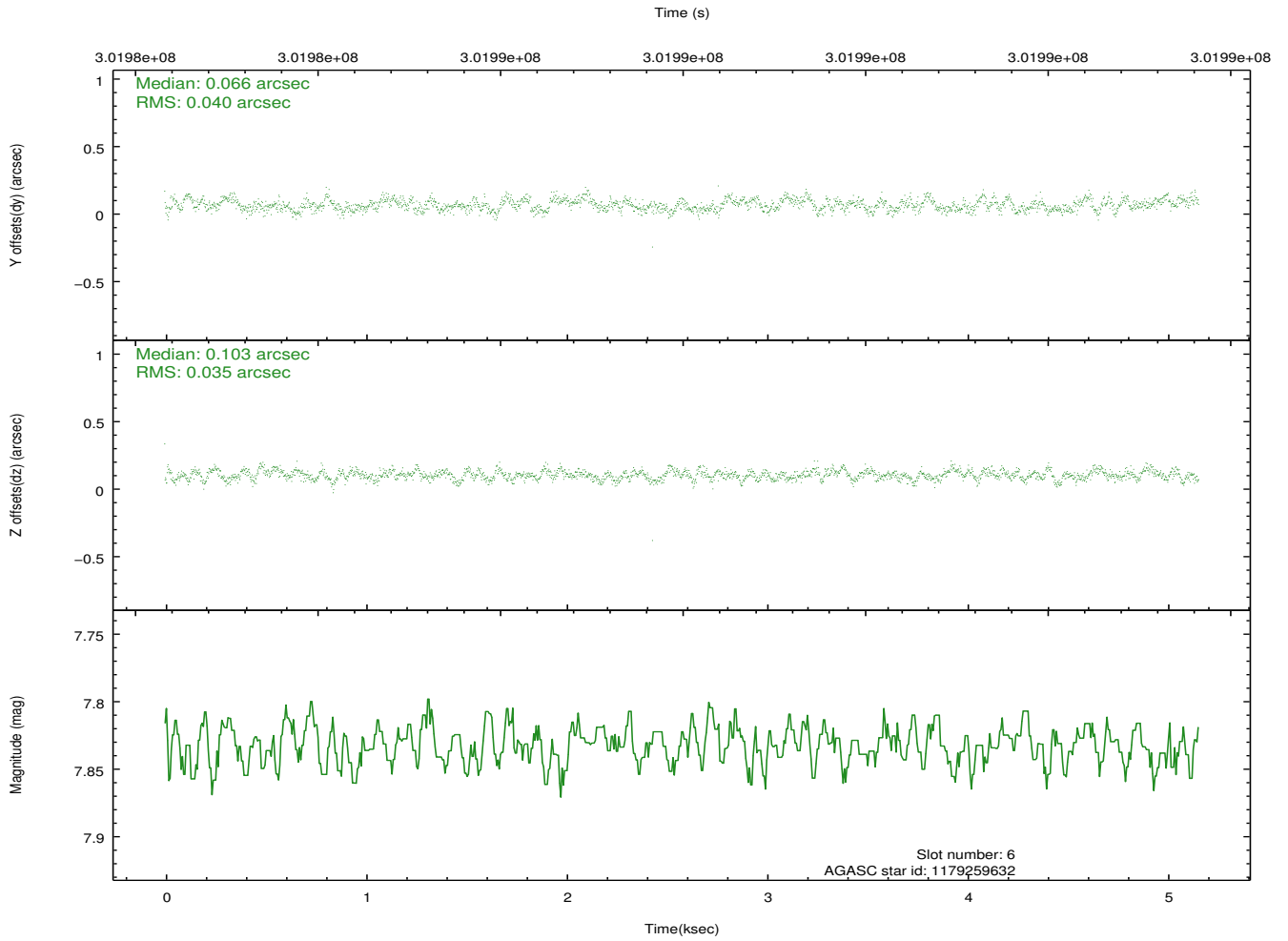
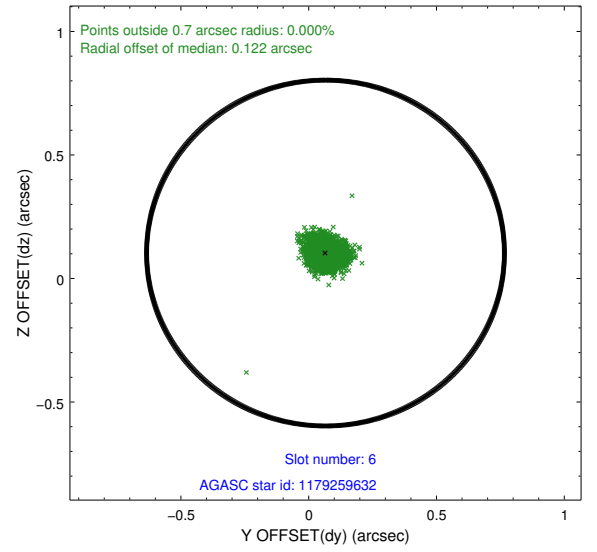
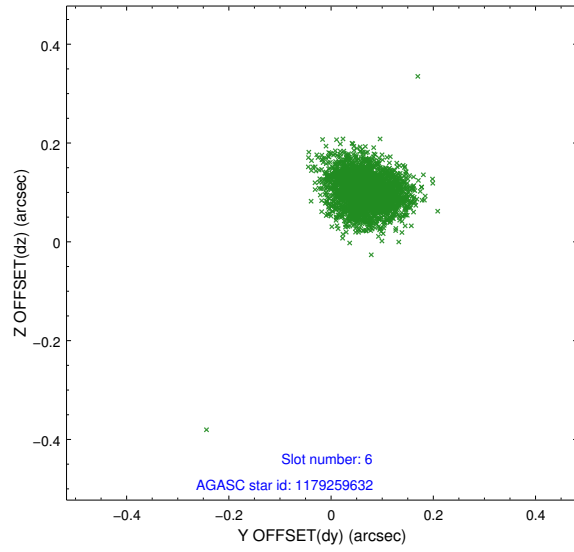
## 2.4.2 Slot 4



### 2.4.3 Slot 5

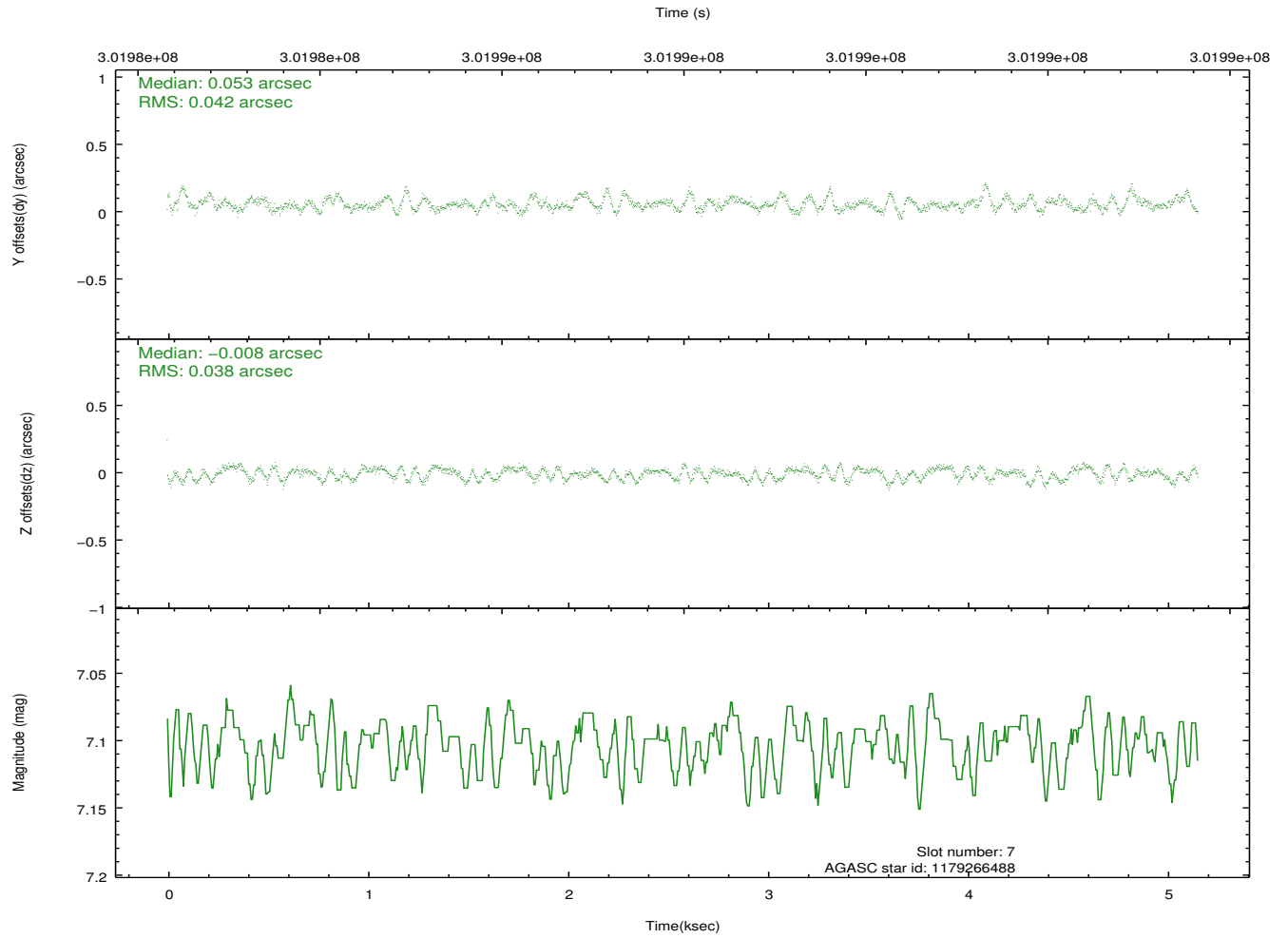
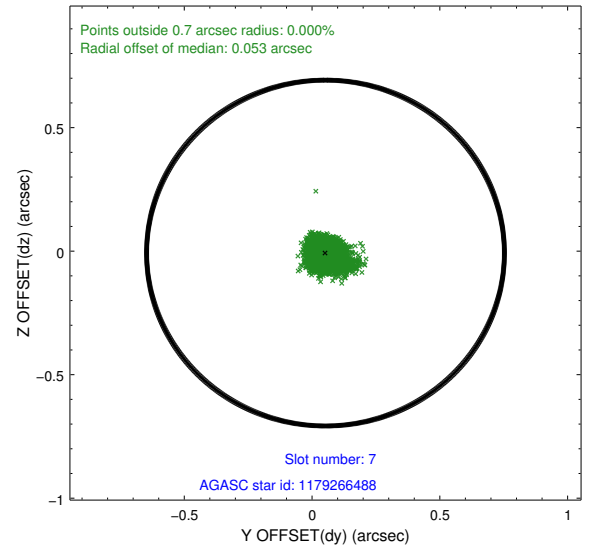
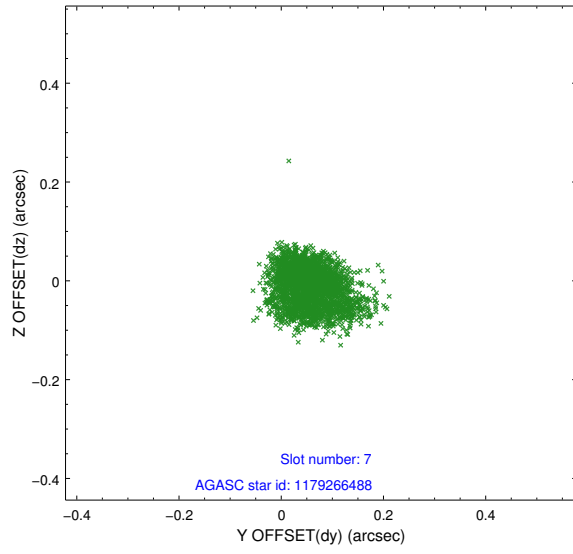


## 2.4.4 Slot 6



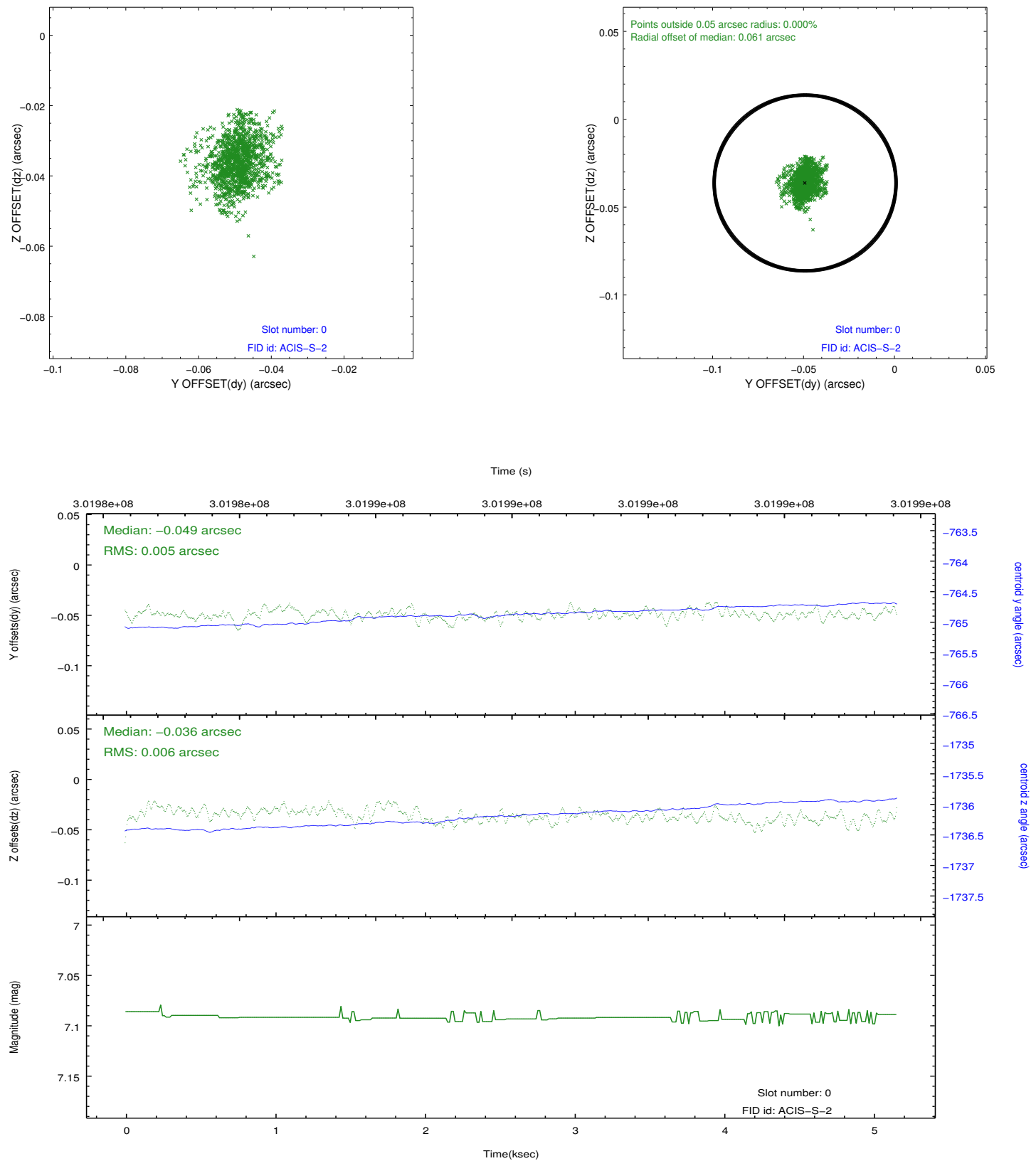


## 2.4.5 Slot 7

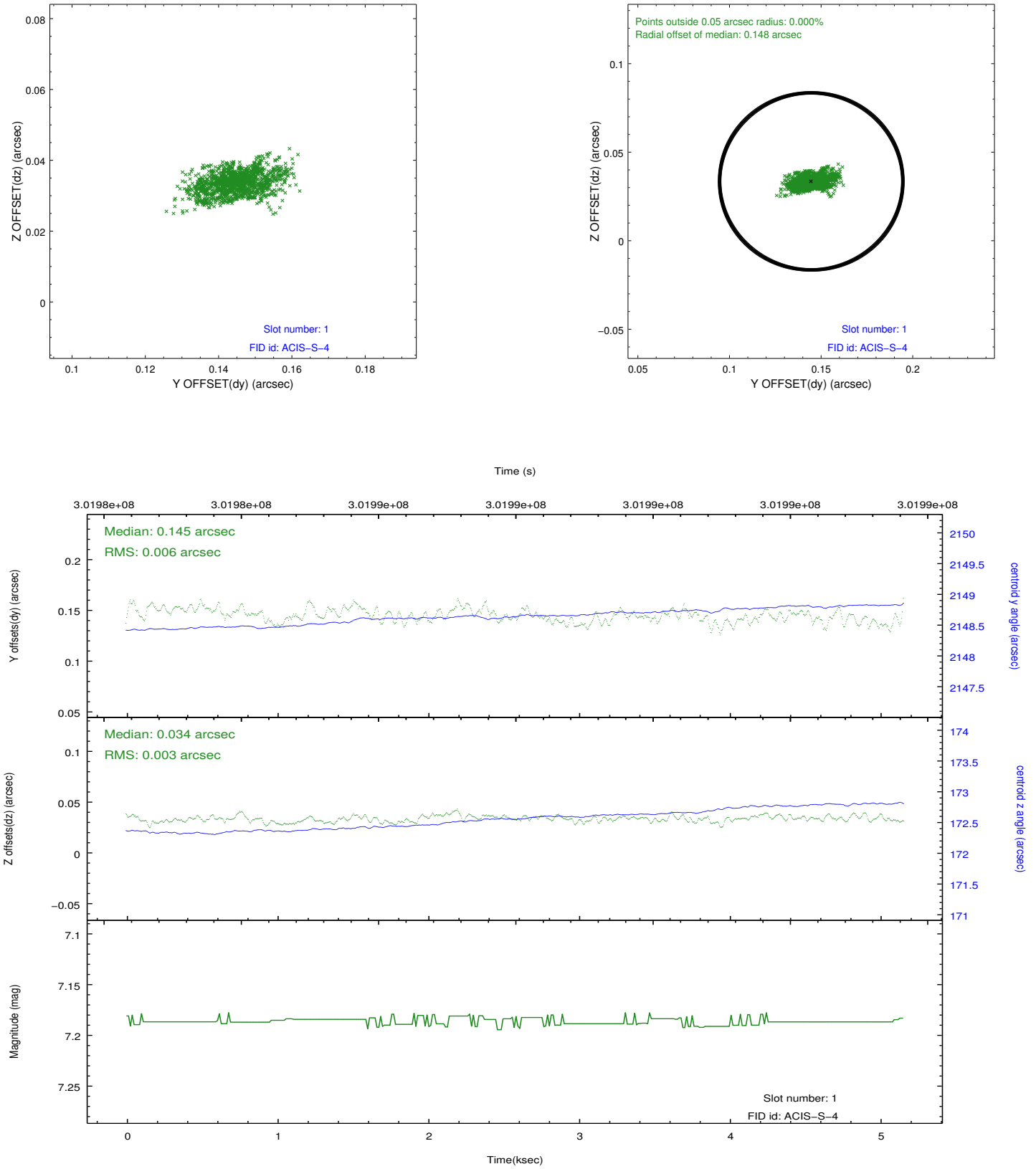


## 2.5 FID Slots

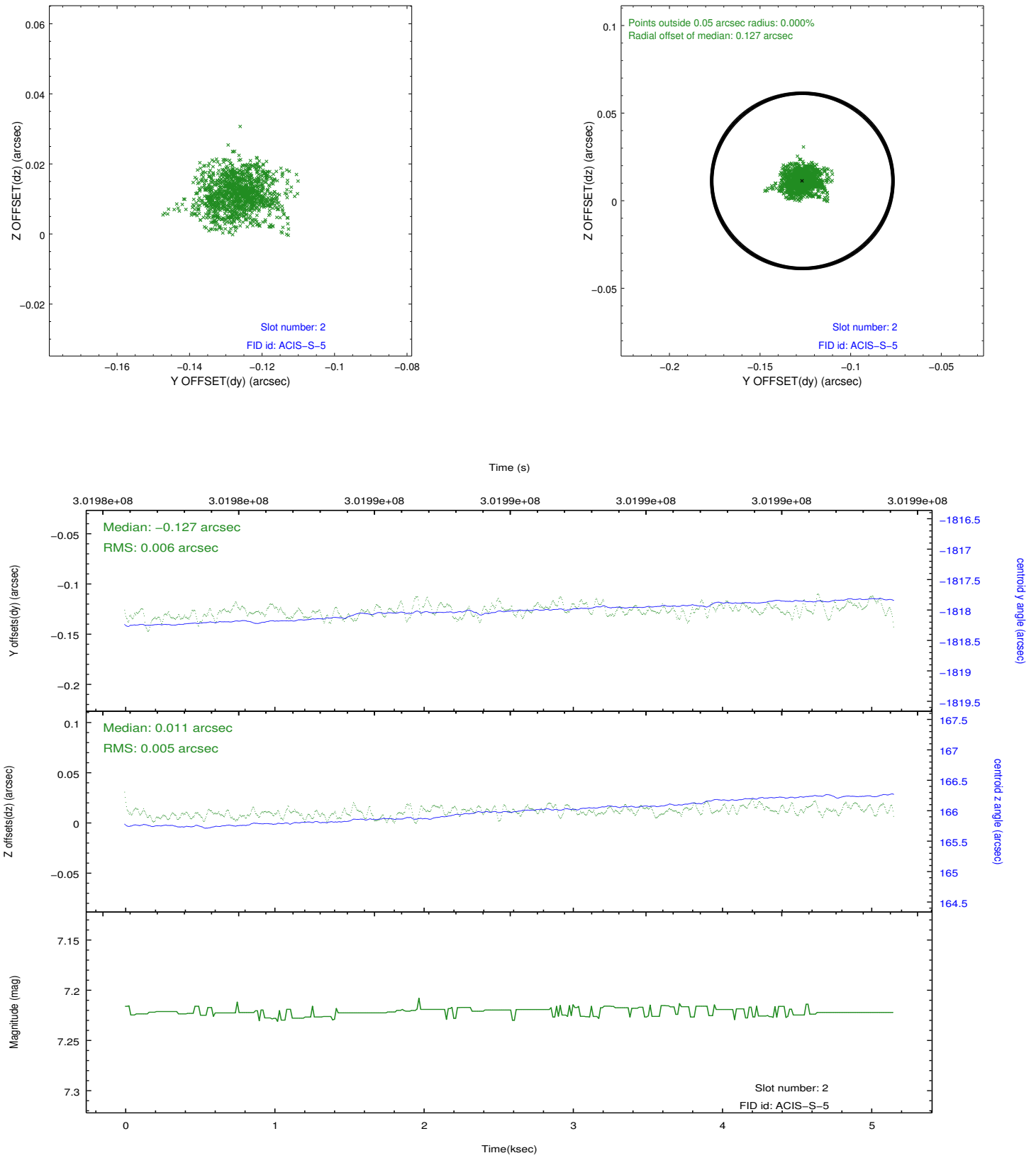
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2

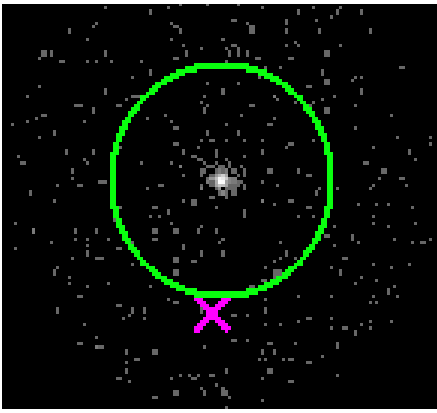


# 3 Gratings

## 3.1 HEG Arm



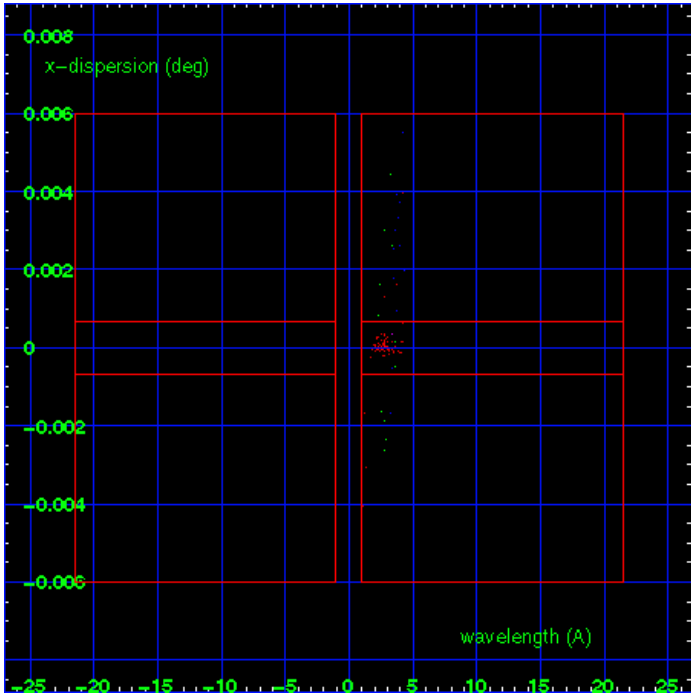
HEG Order Sort 123



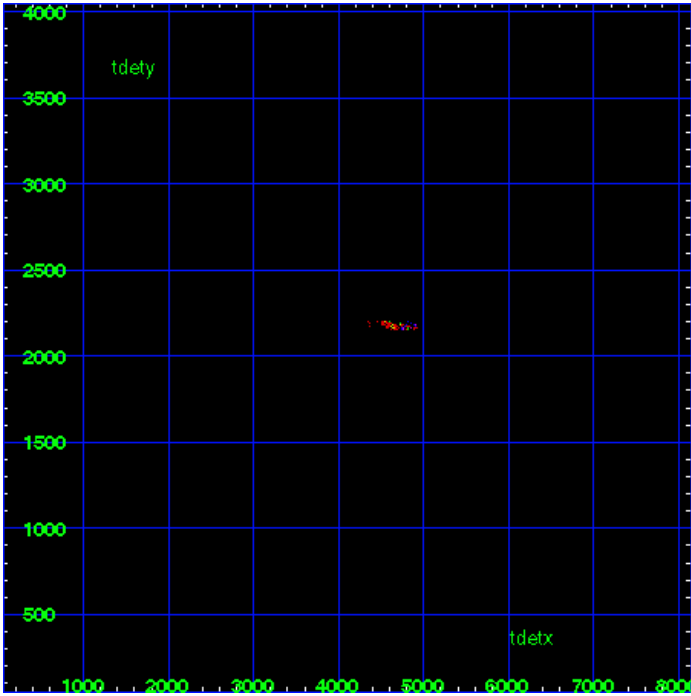
HEG Zero Order



HEG Order Sort ALL

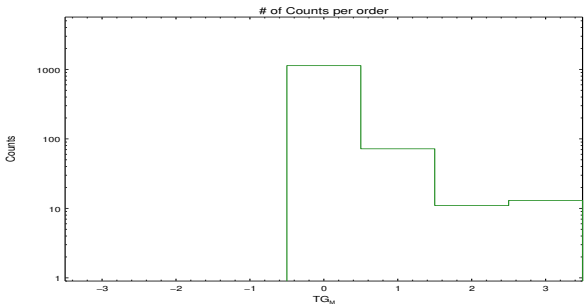


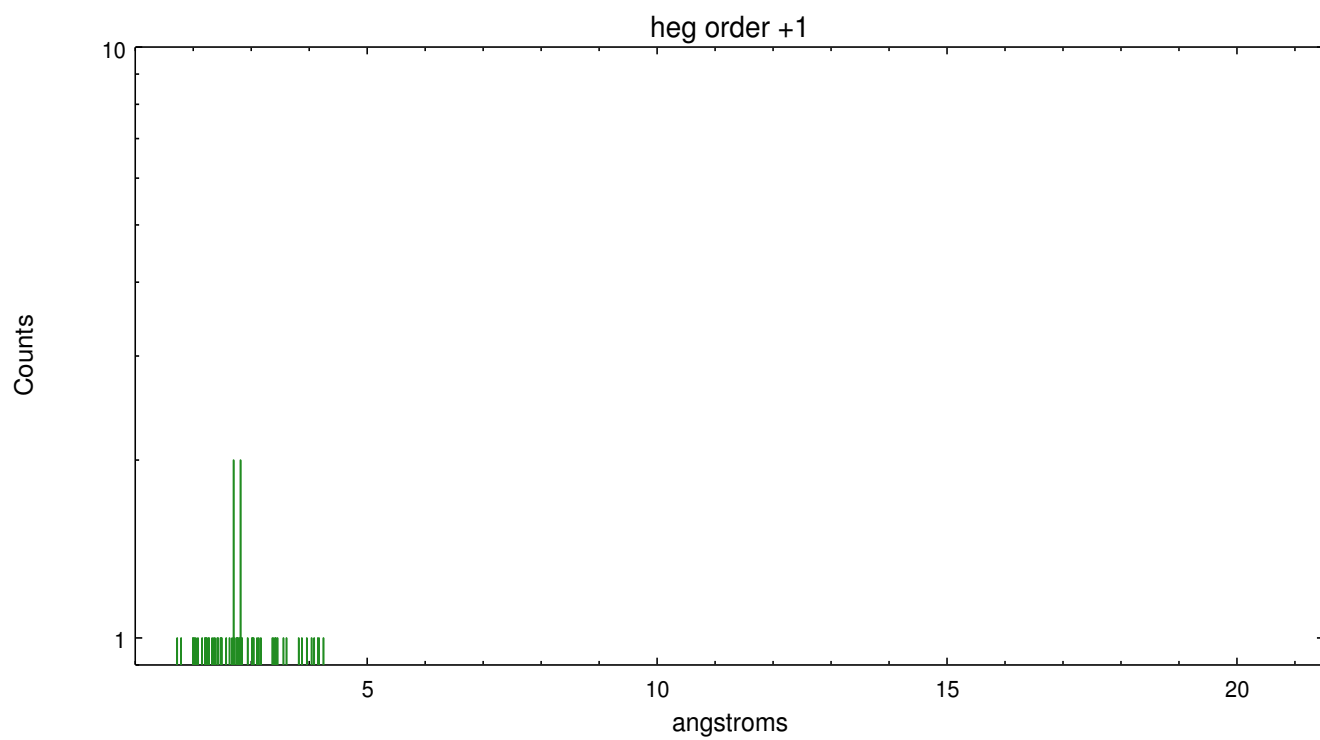
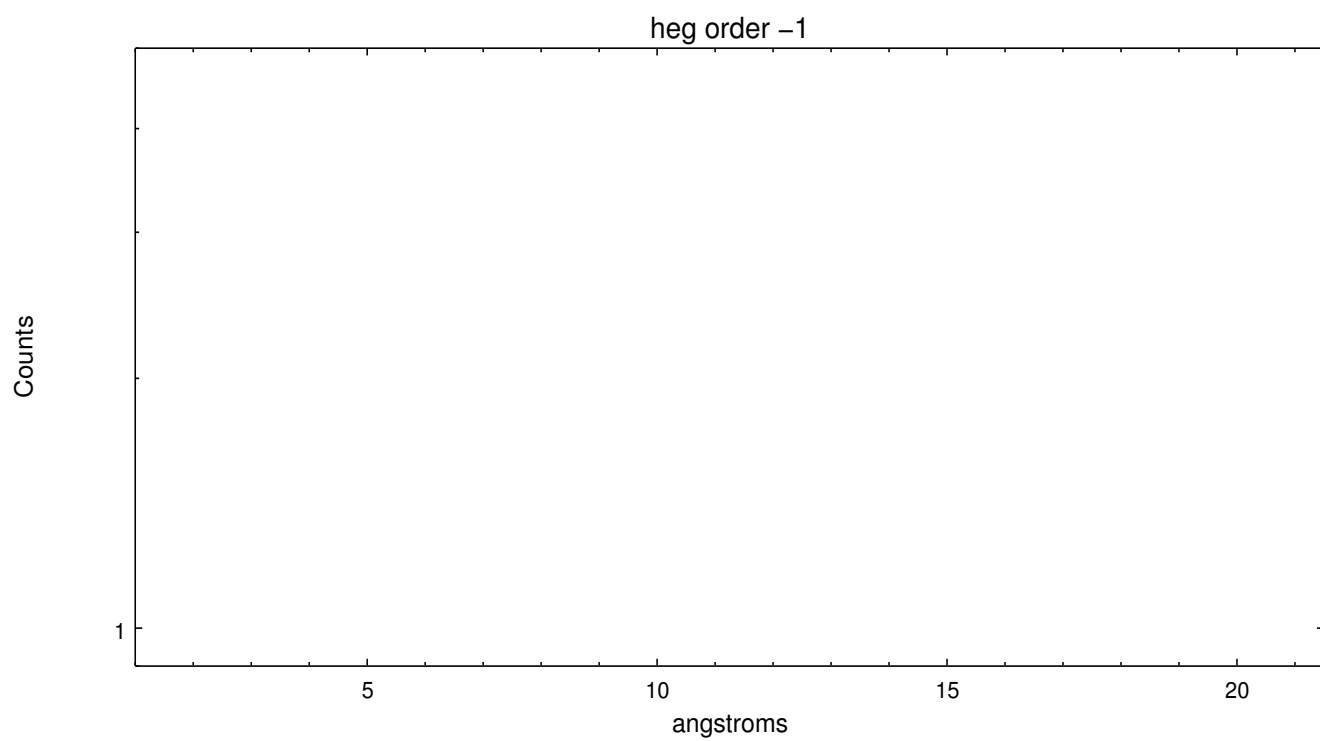
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	0	1133	72	11	13

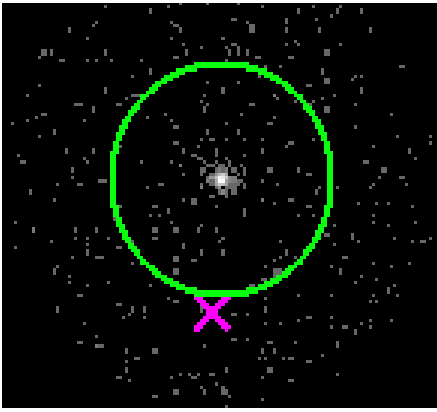




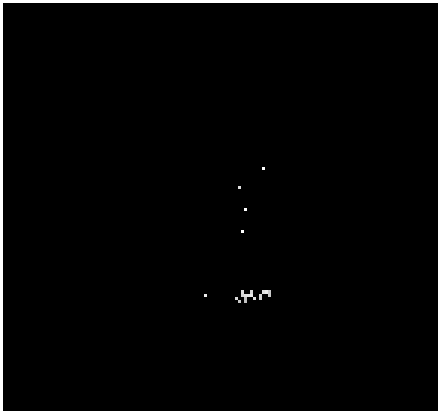
3.2 MEG Arm



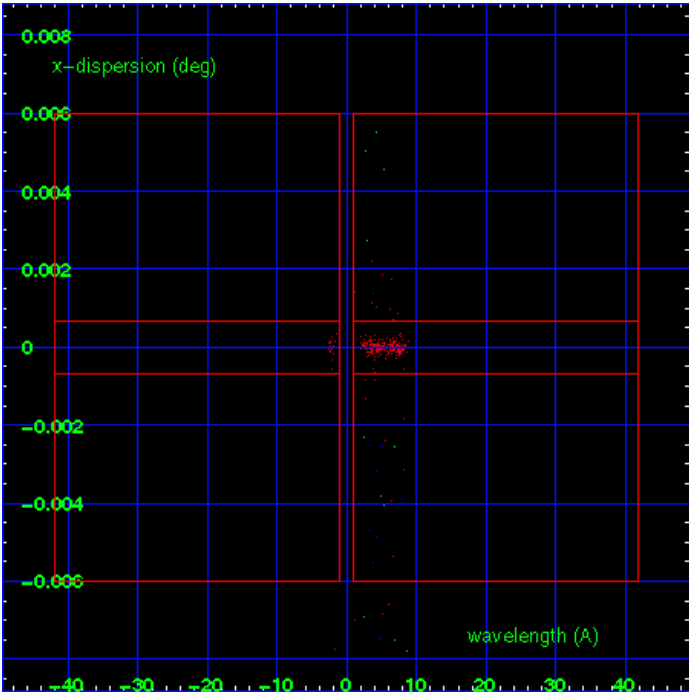
MEG Order Sort 123



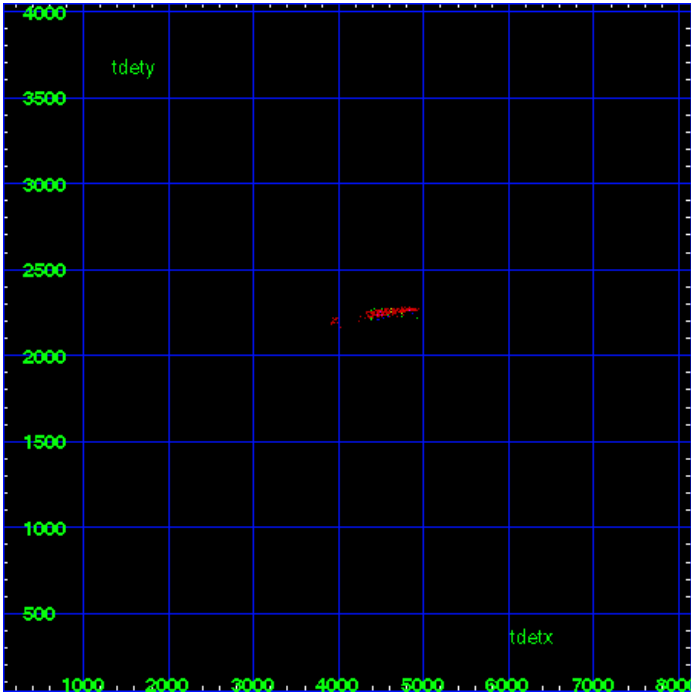
MEG Zero Order



MEG Order Sort ALL

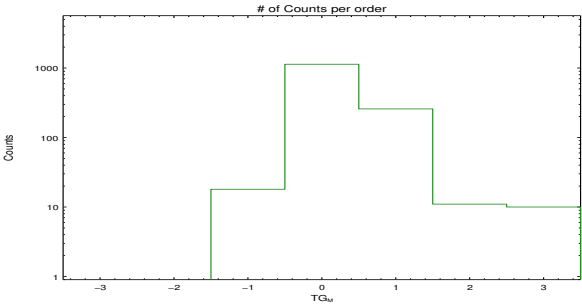


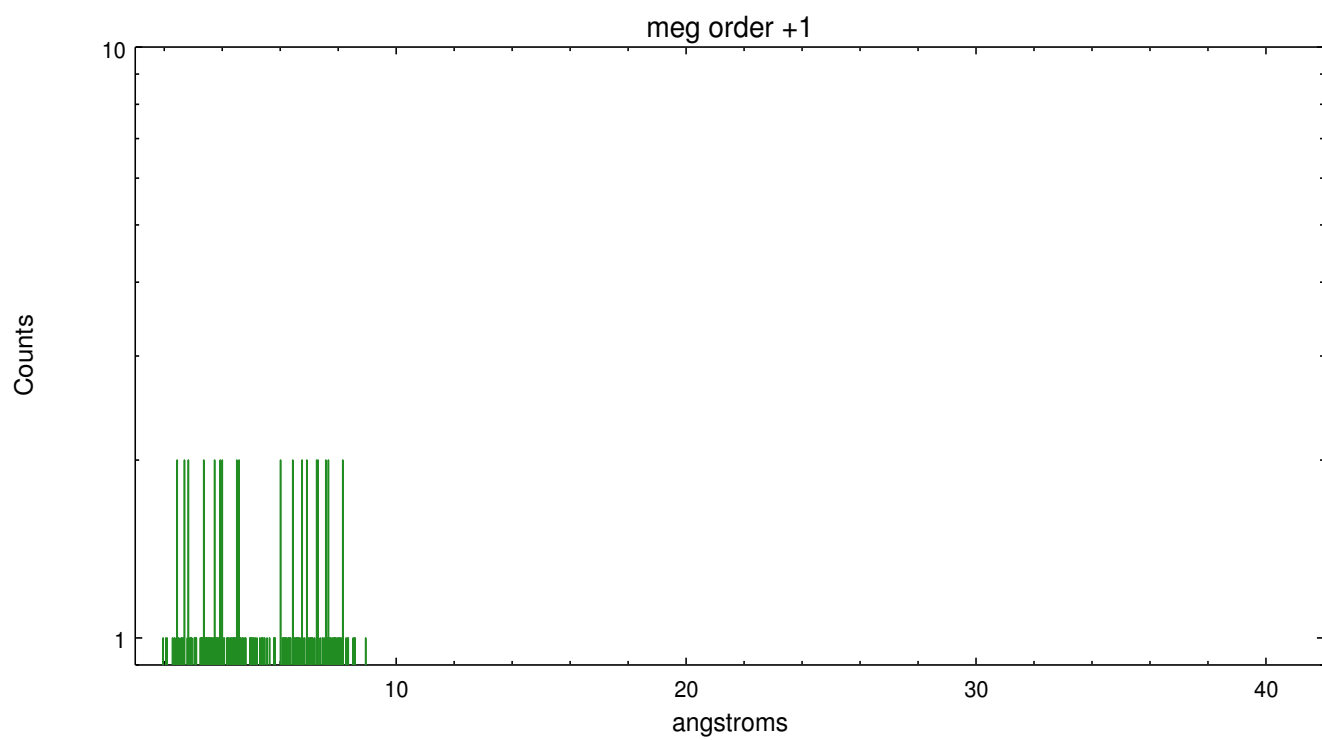
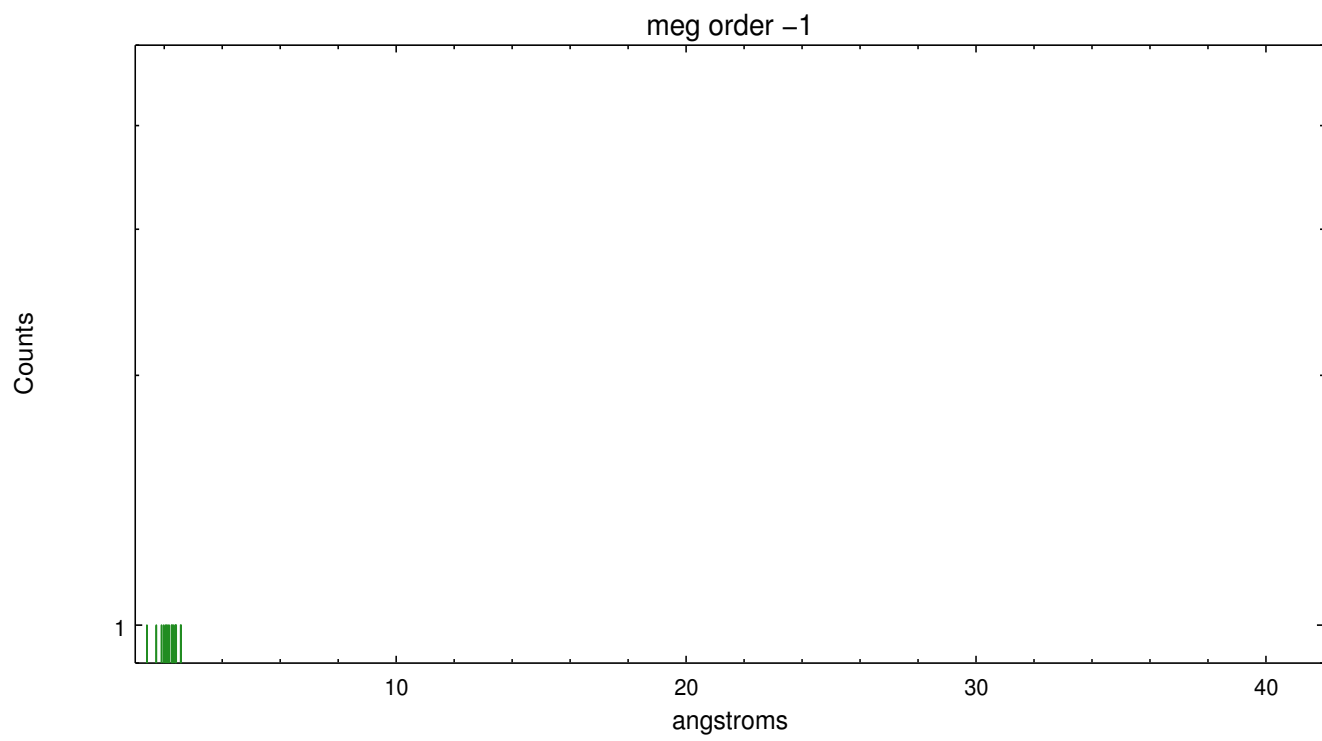
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	18	1133	258	11	10







# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15719969

## A.2 Comments

Because of the subarray and CCD chip chosen, only a portion of the plus-side MEG and HEG grating arms are available.