

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10026 - L2 Version 2  
Chandra X-Ray Center

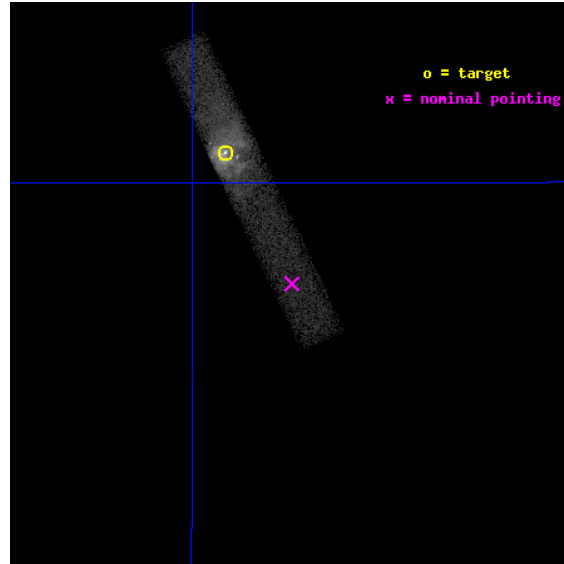
L2 Processing Date : Jun 6 2012

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# 1 Front

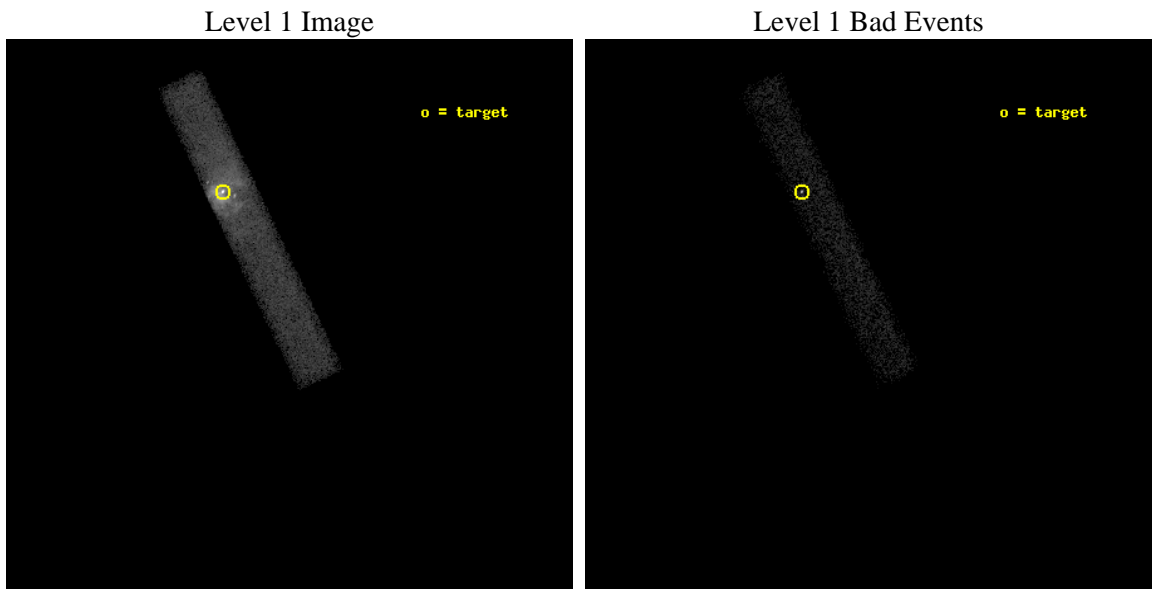
seq_num	400990	Sequence number
obs_id	10026	Observation id
title	Weighing the ULX in M82 via QPO-Spectral Correlations from Simultaneous Chandra and XMM-Newton Observations	Proposal title
observer	Prof. Hua Feng	Principal investigator
object	M82 ULX	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.959167	Observer's specified target RA [deg]
dec_targ	69.679722	Observer's specified target Dec [deg]
ra_nom	148.87543331708	Nominal RA [deg]
dec_nom	69.623111851706	Nominal Dec [deg]
roll_nom	244.44634156801	Nominal Roll [deg]
revision	2	Processing version of data
ontime	18679.998886585	Sum of GTIs [s]
livetime	16941.772978945	Livetime [s]
ontime7	18679.998886585	Sum of GTIs [s]
l2events	65702	Number of level 2 events



## 2 OBI

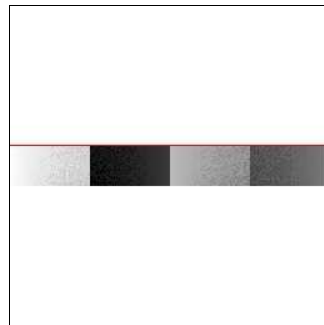
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	18679.998886585	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime7	18679.998886585	Sum of GTIs [s]
date	2012-06-06T03:41:56	Date and time of file creation	l1events	87892	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

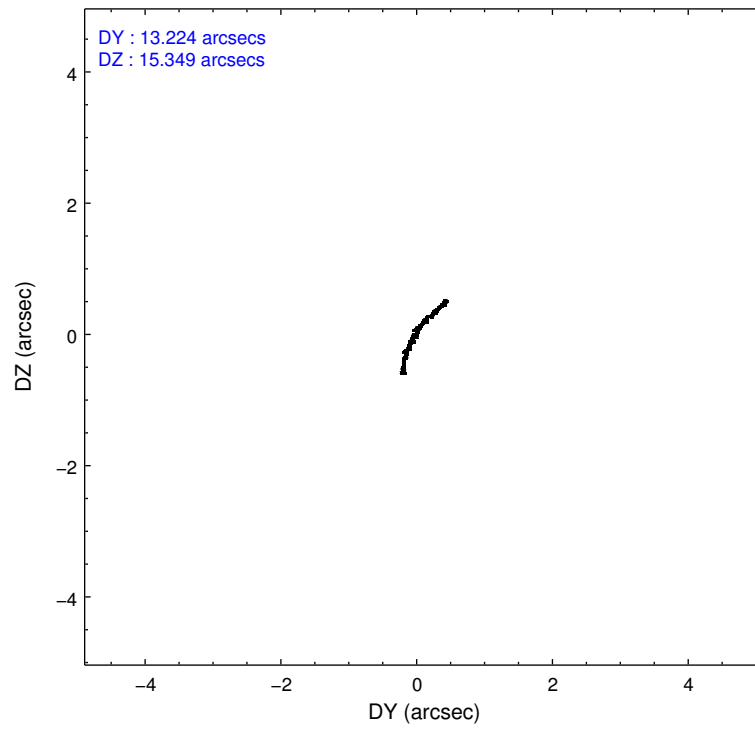
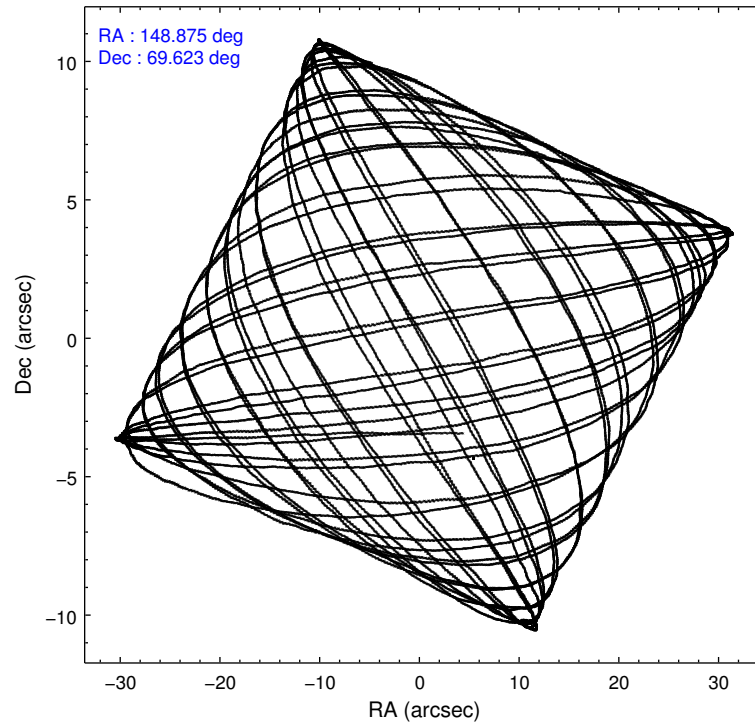
	<b>ccd 7</b>
level 1 events	87892
rejected events	21400
rejected %	24%

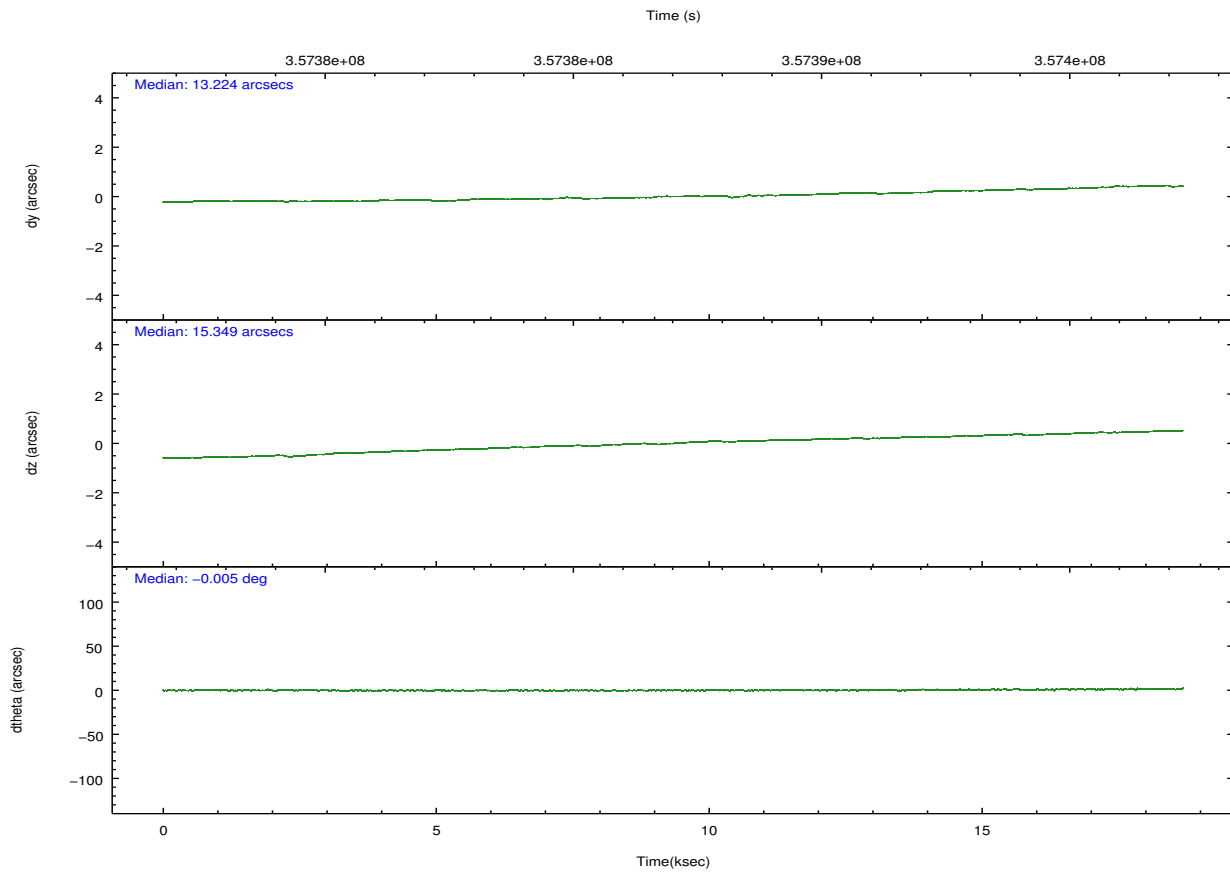
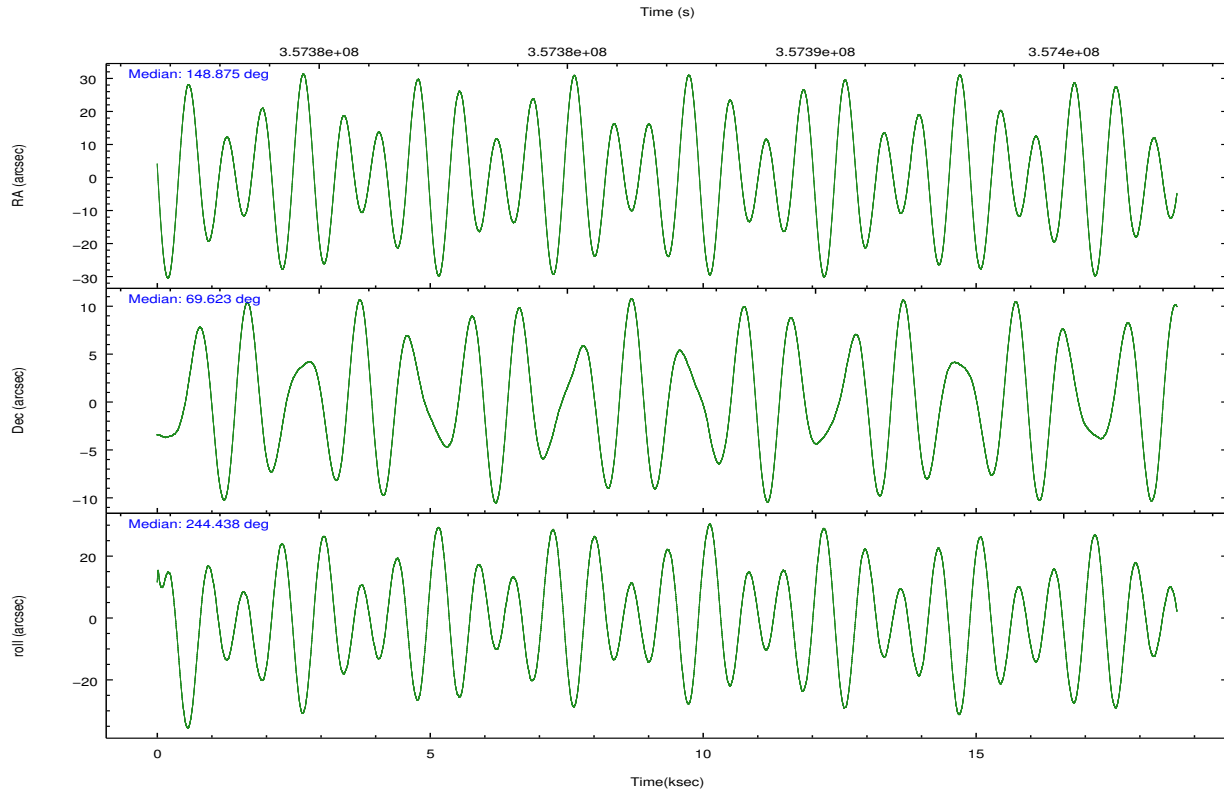
	<b>ccd 7</b>
grade 0 events	16113
	18%
grade 1 events	176
	0%
grade 2 events	16327
	18%
grade 3 events	7977
	9%
grade 4 events	7956
	9%
grade 5 events	3999
	4%
grade 6 events	18781
	21%
grade 7 events	16563
	18%

## 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	148.868362	148.8754333170836	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	69.650334	69.62311185170607	Subarray start row	449	449
[deg] Pointing Roll	244.296343	244.446341568014	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)	357377842.184000	357377056.00505			
Observation start date	2009-04-29T07:36:16	2009-04-29T07:24:16			
[s] Observation end time (MET)	357396342.184000	357397164.96855			
Observation end date	2009-04-29T12:44:36	2009-04-29T12:59:24			
Read mode	TIMED	TIMED			

## 2.3 Aspect



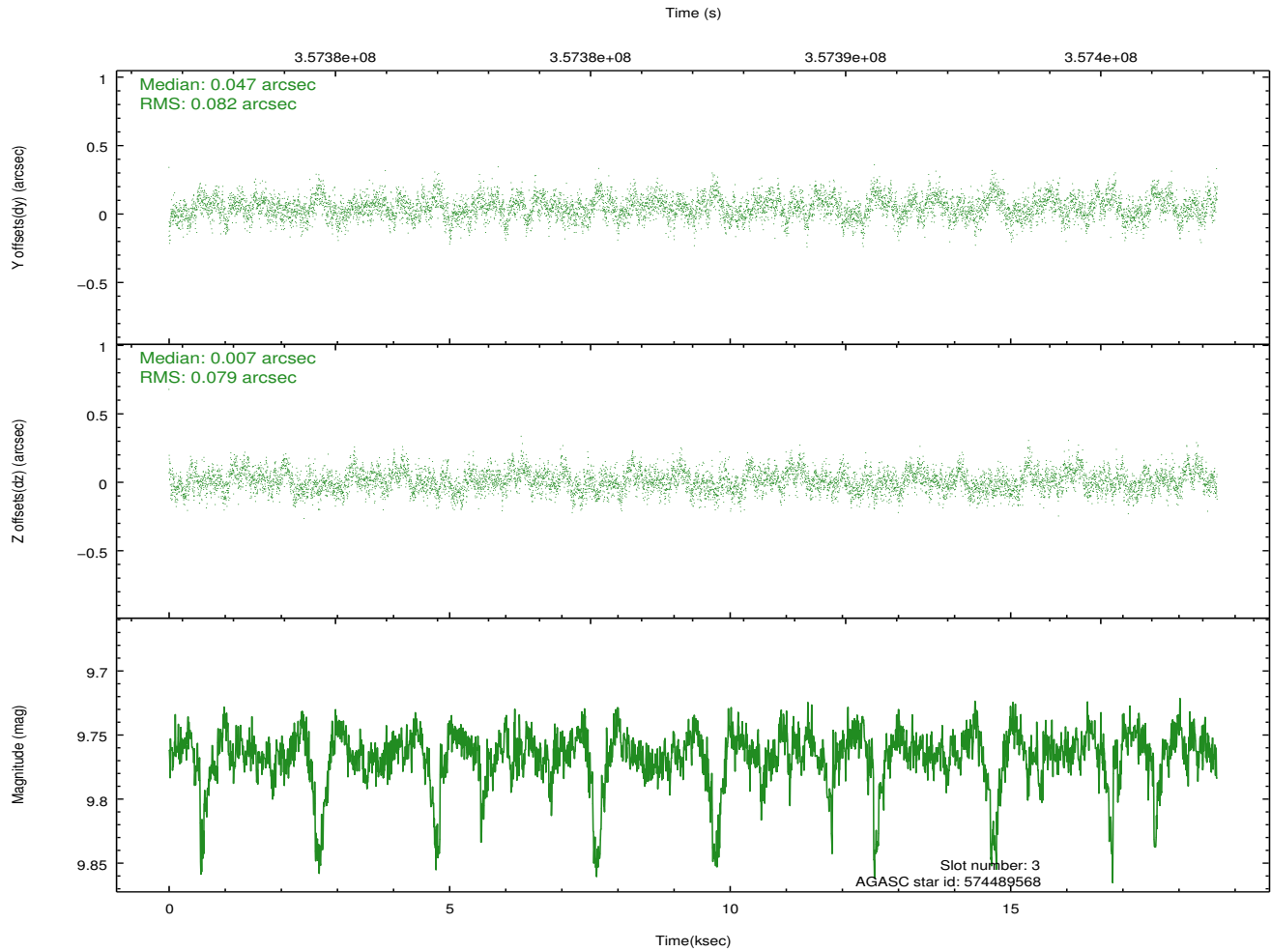
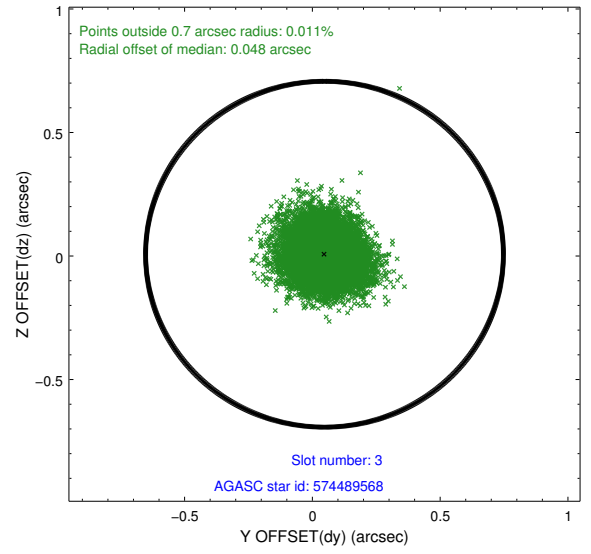
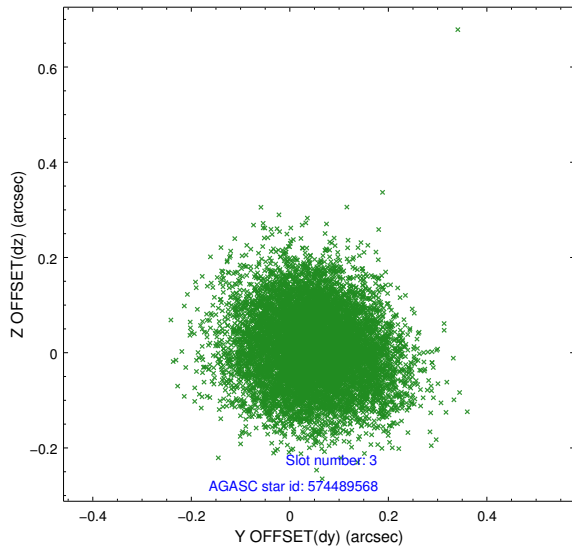


### Slot Statistics

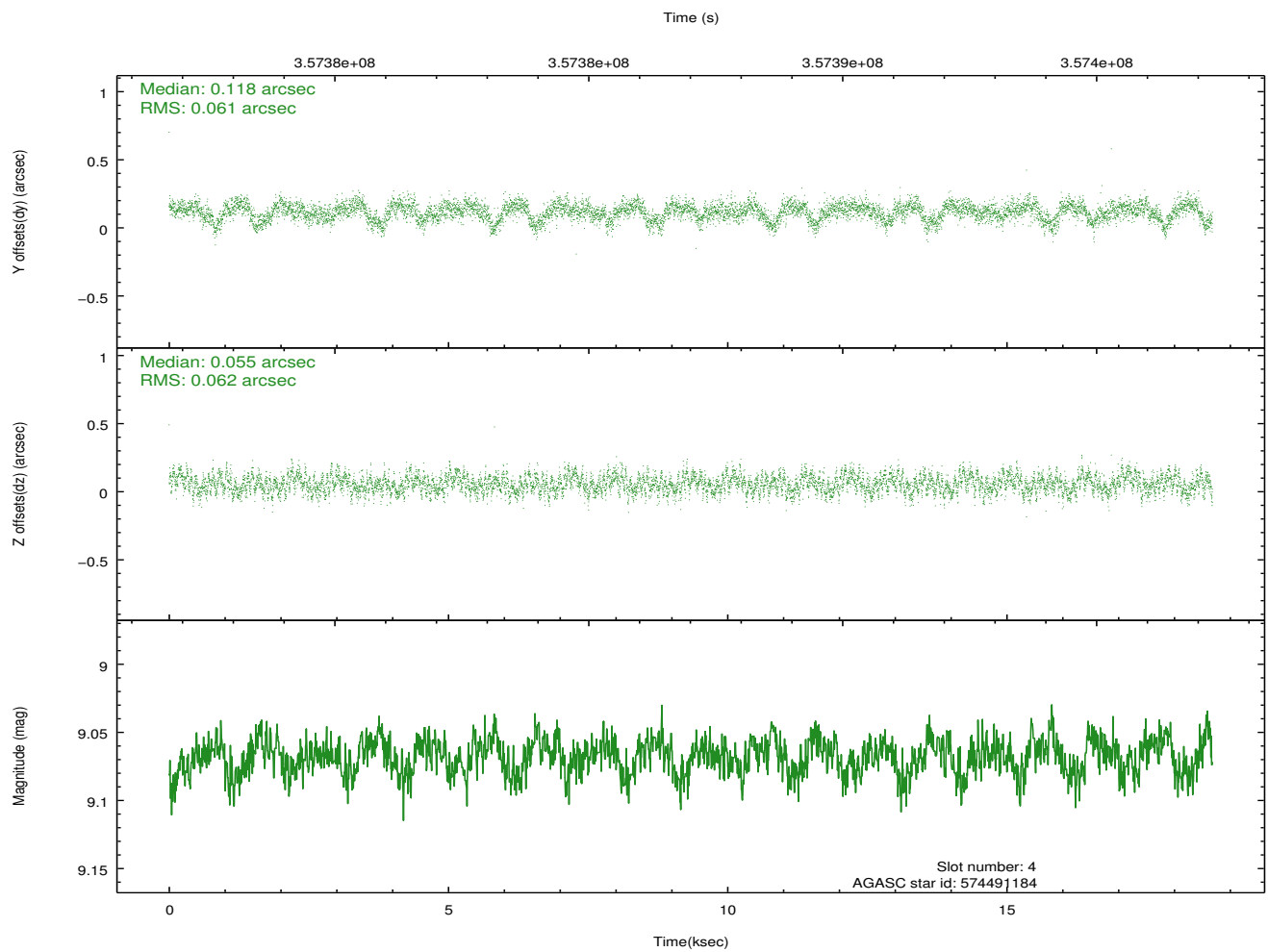
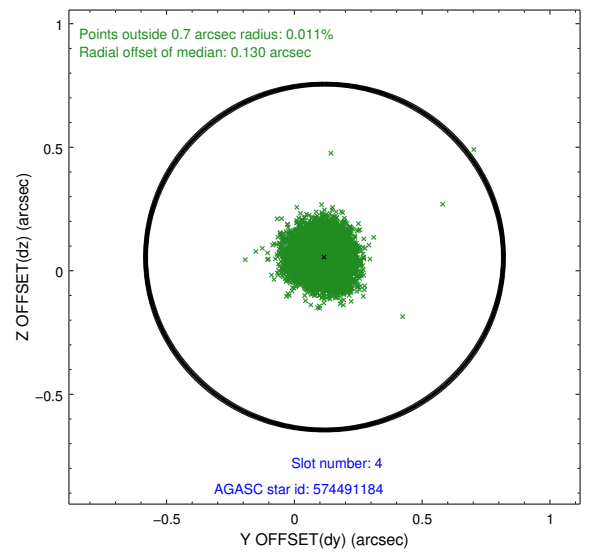
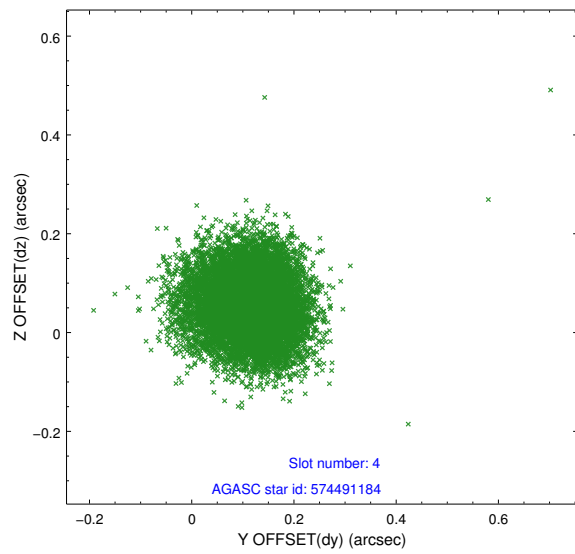
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	4557	-0.057	-0.020	0.007	0.012	0.000000	0.000000	-766.21	-1736.75
1	FID	ACIS-S-4	6.98	4557	0.182	0.033	0.013	0.022	0.000000	0.000000	2147.19	171.61
2	FID	ACIS-S-5	7.01	4557	-0.157	-0.004	0.012	0.019	0.000000	0.000000	-1818.91	165.43
3	GUIDE	574489568	9.76	9100	0.047	0.007	0.122	0.194	147.223974	69.438157	1565.39	-1553.20
4	GUIDE	574491184	9.07	9111	0.118	0.055	0.093	0.145	148.582453	69.768699	-229.60	-505.43
5	GUIDE	574491872	9.25	9107	-0.049	0.025	0.132	0.209	147.207613	69.765453	501.49	-2053.25
6	GUIDE	574885216	8.50	9112	-0.077	-0.066	0.078	0.129	147.834547	70.411352	-1936.32	-2317.14
7	GUIDE	574886496	8.51	9108	-0.036	-0.024	0.074	0.121	148.945563	70.041136	-1308.82	-524.75

## 2.4 Star Slots

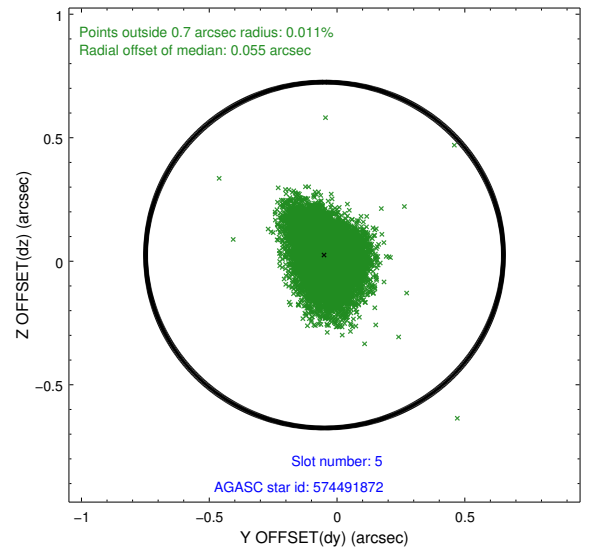
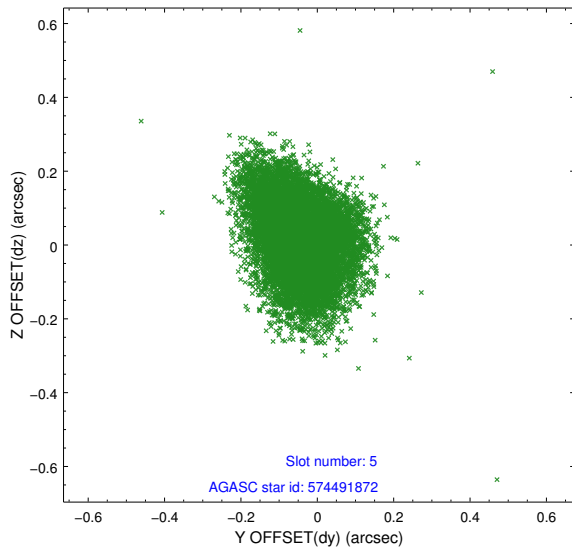
### 2.4.1 Slot 3



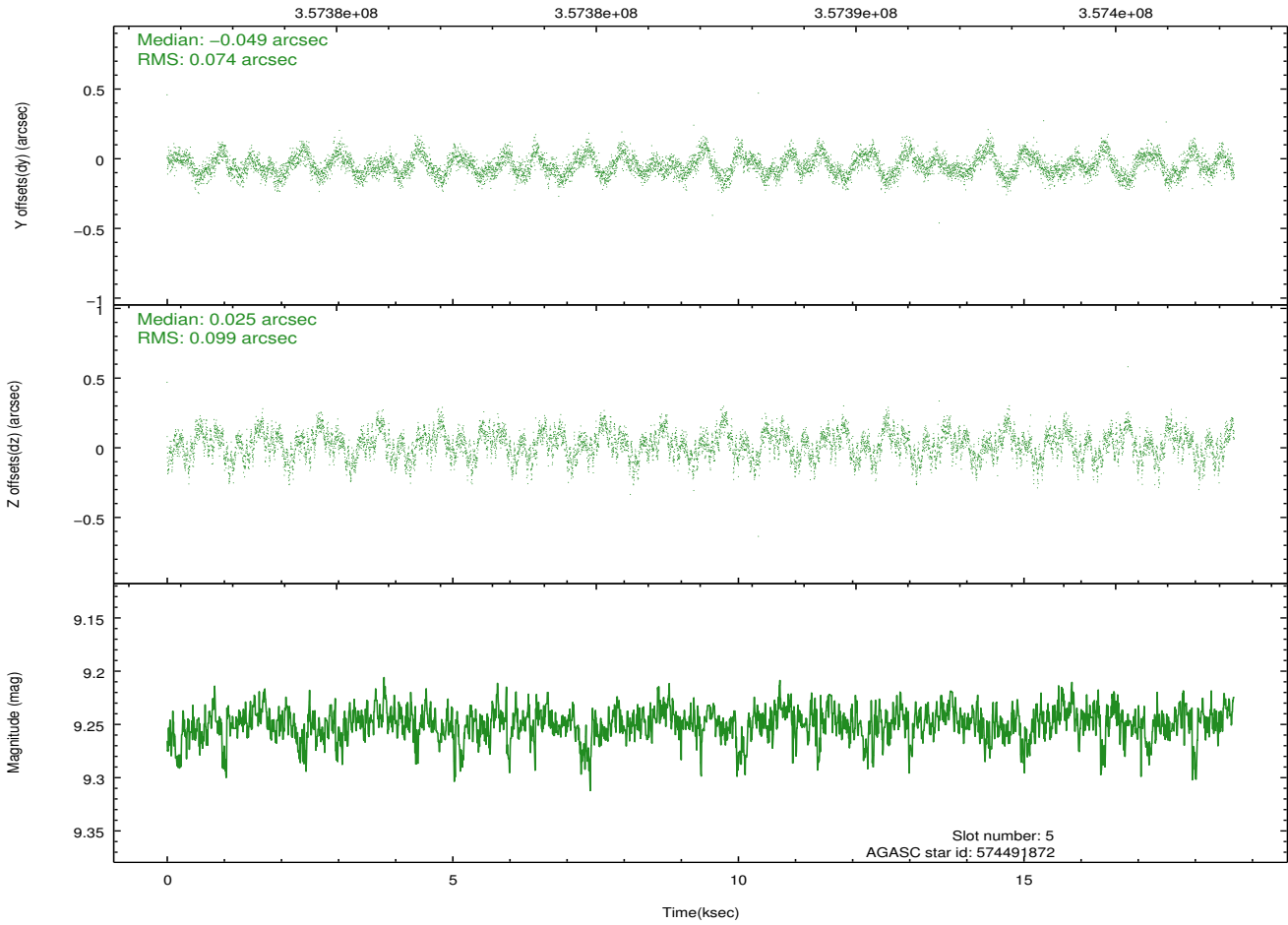
## 2.4.2 Slot 4



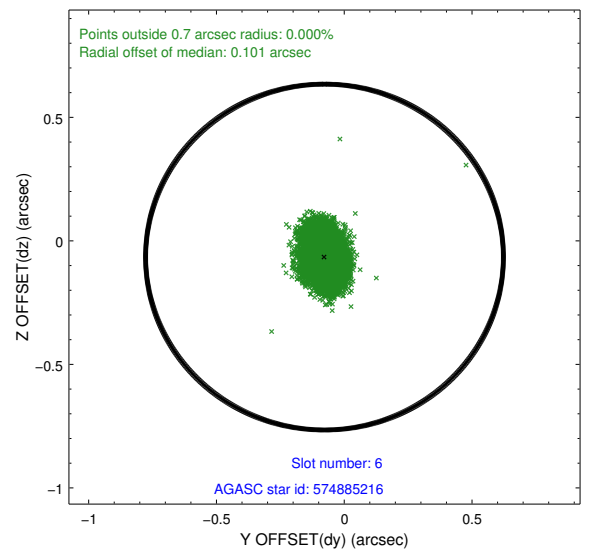
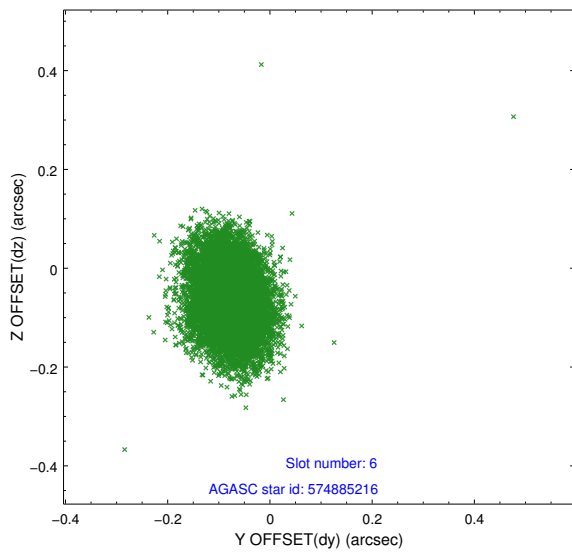
### 2.4.3 Slot 5



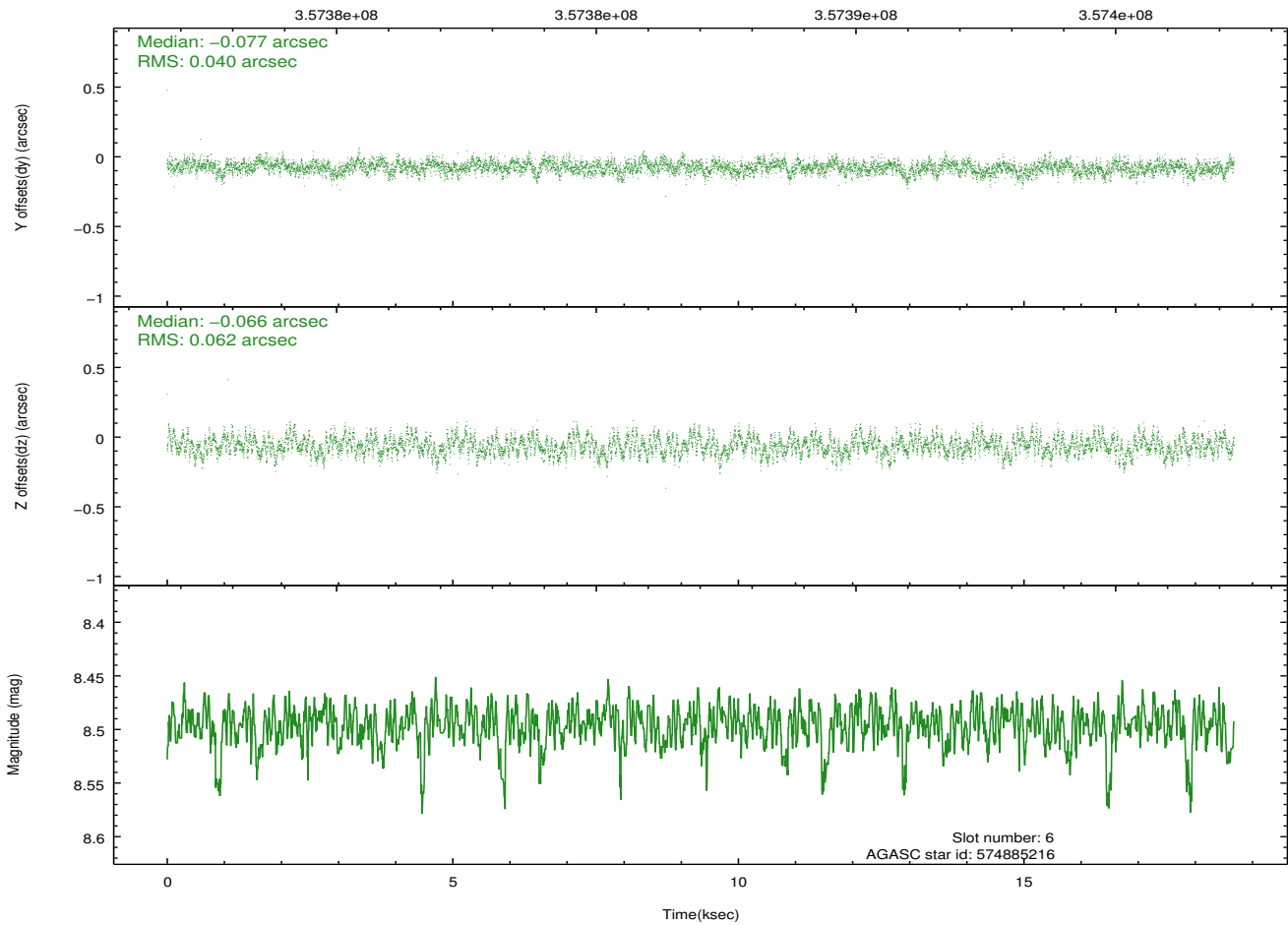
Time (s)



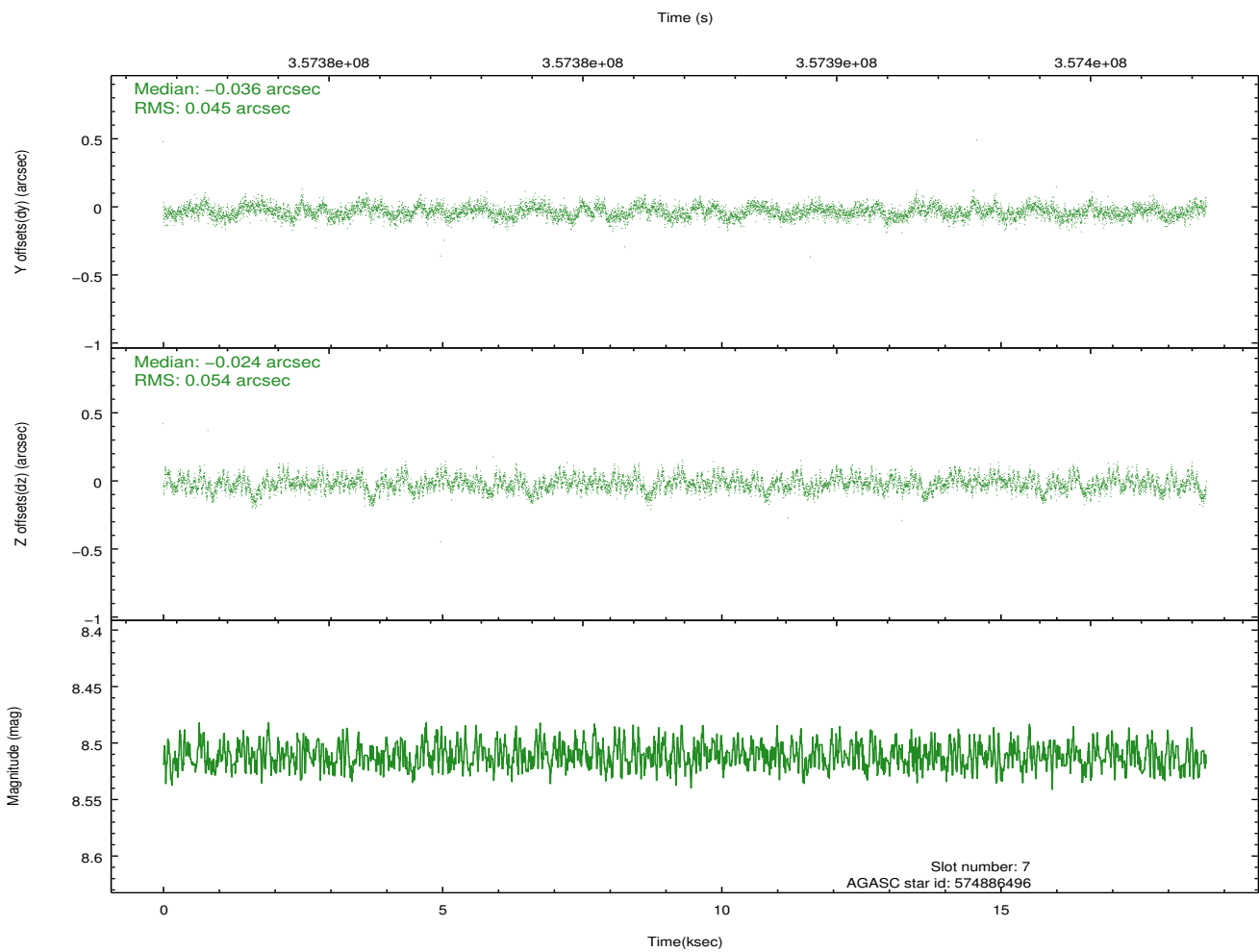
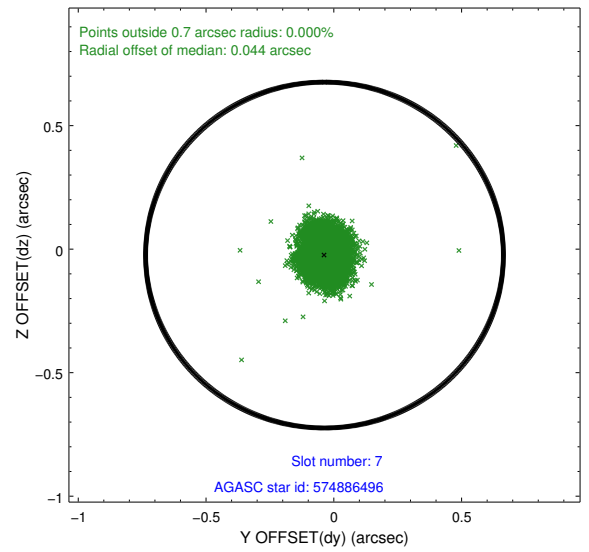
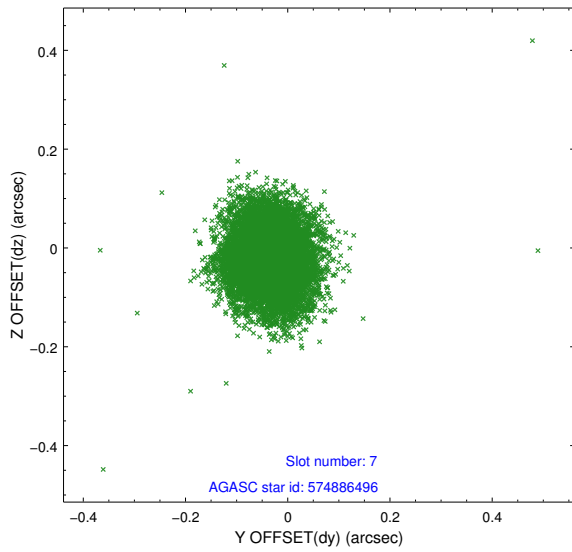
## 2.4.4 Slot 6



Time (s)

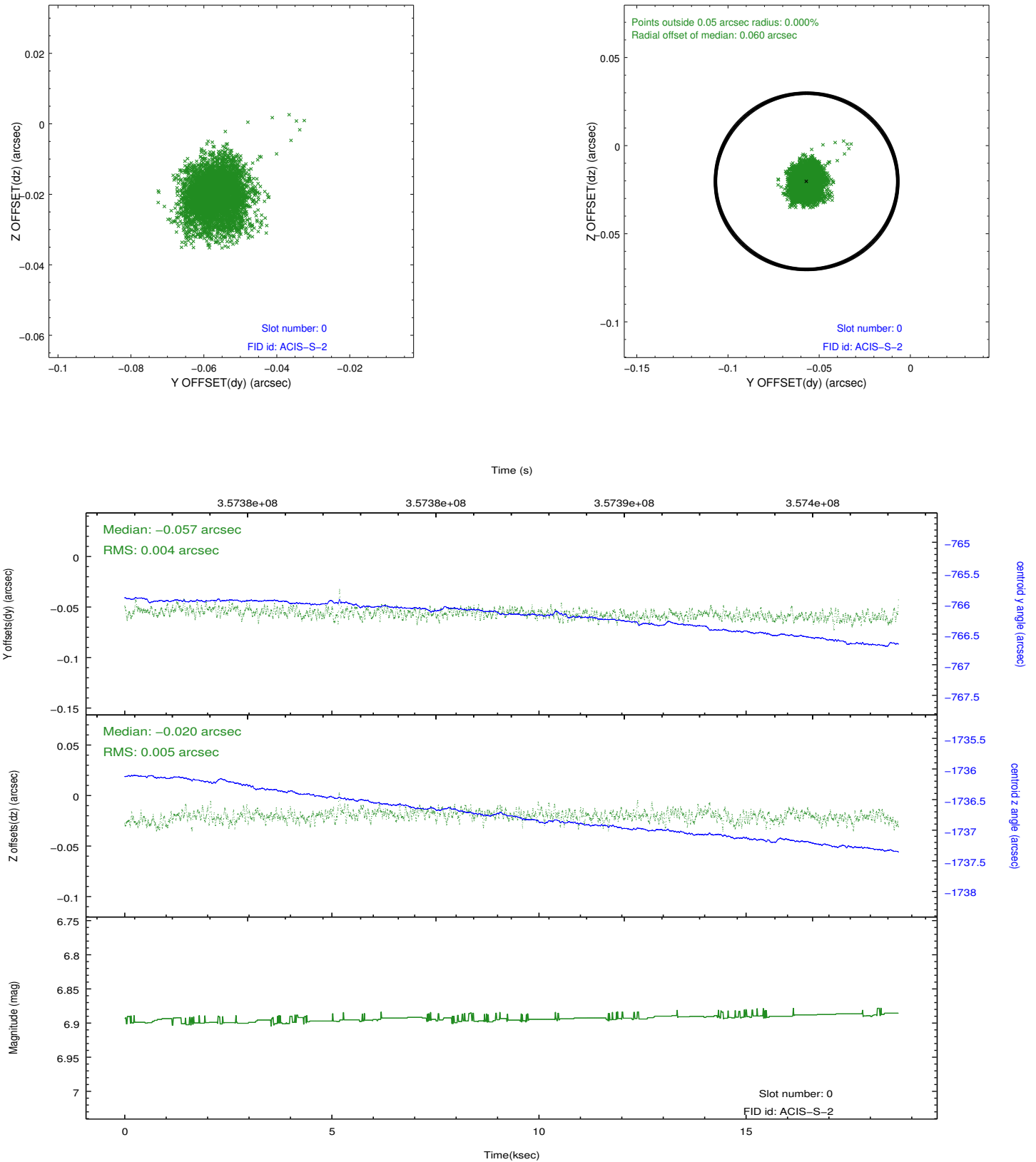


## 2.4.5 Slot 7

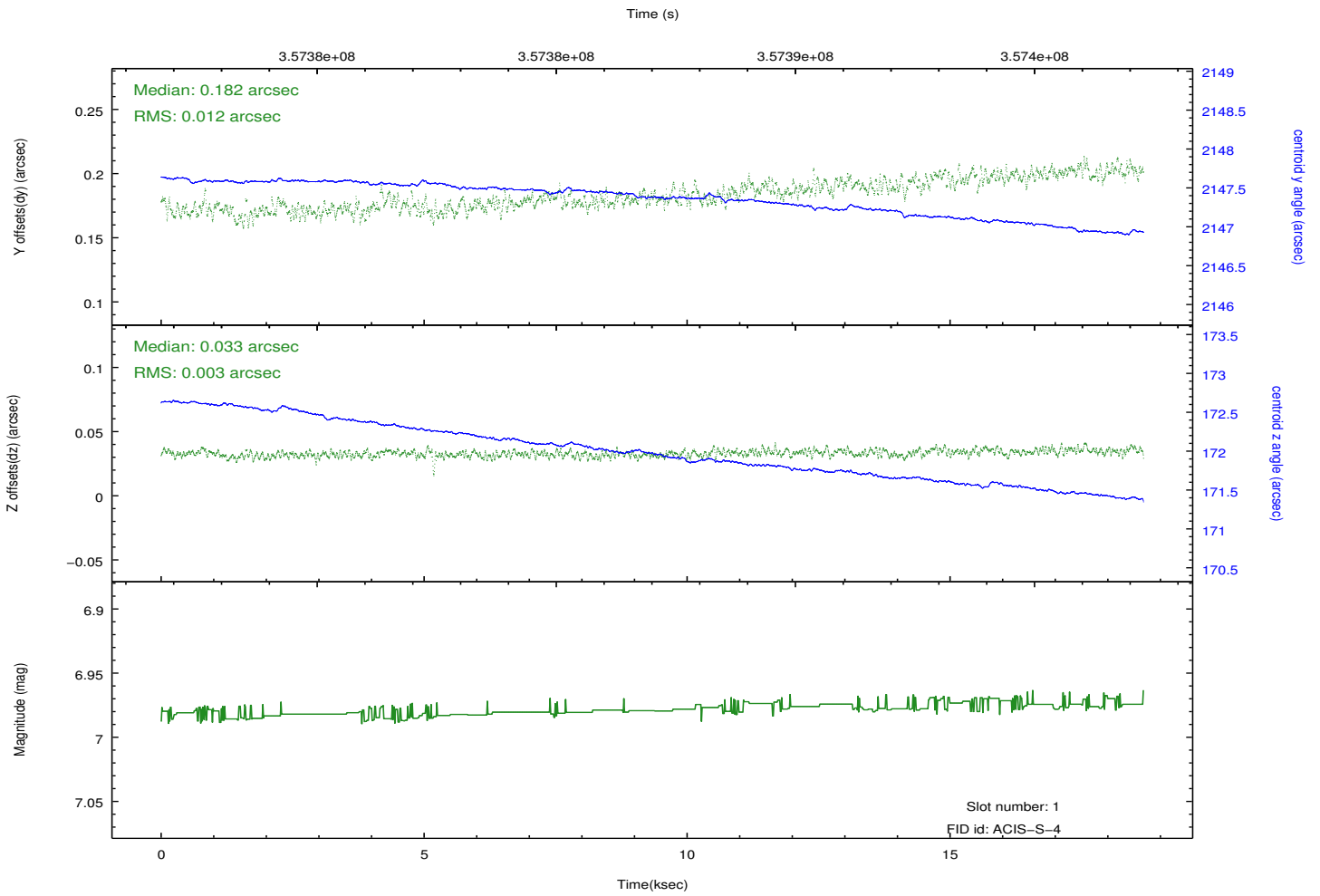
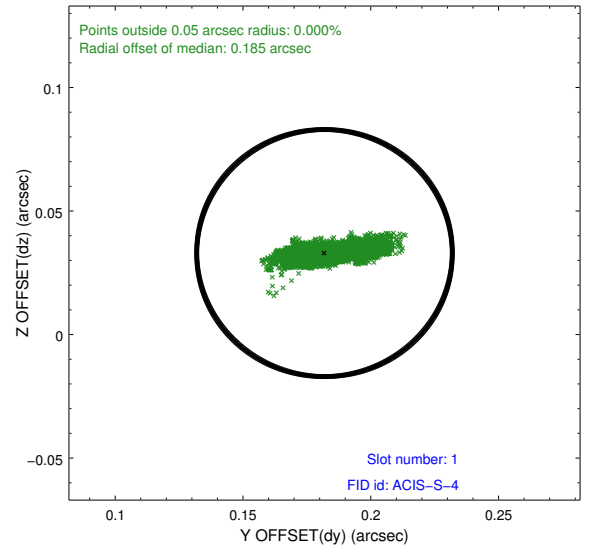
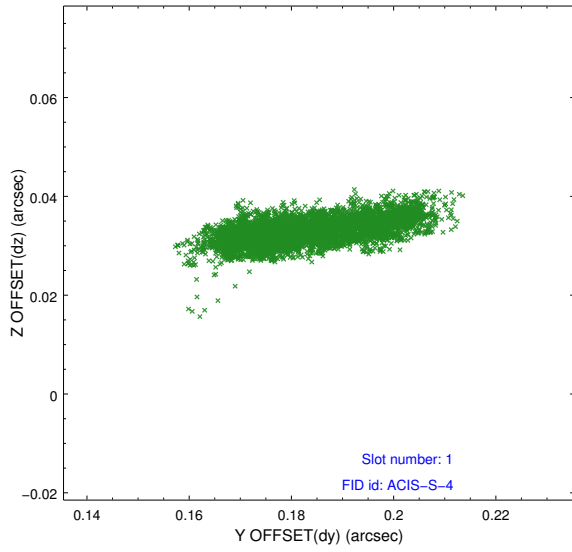


## 2.5 FID Slots

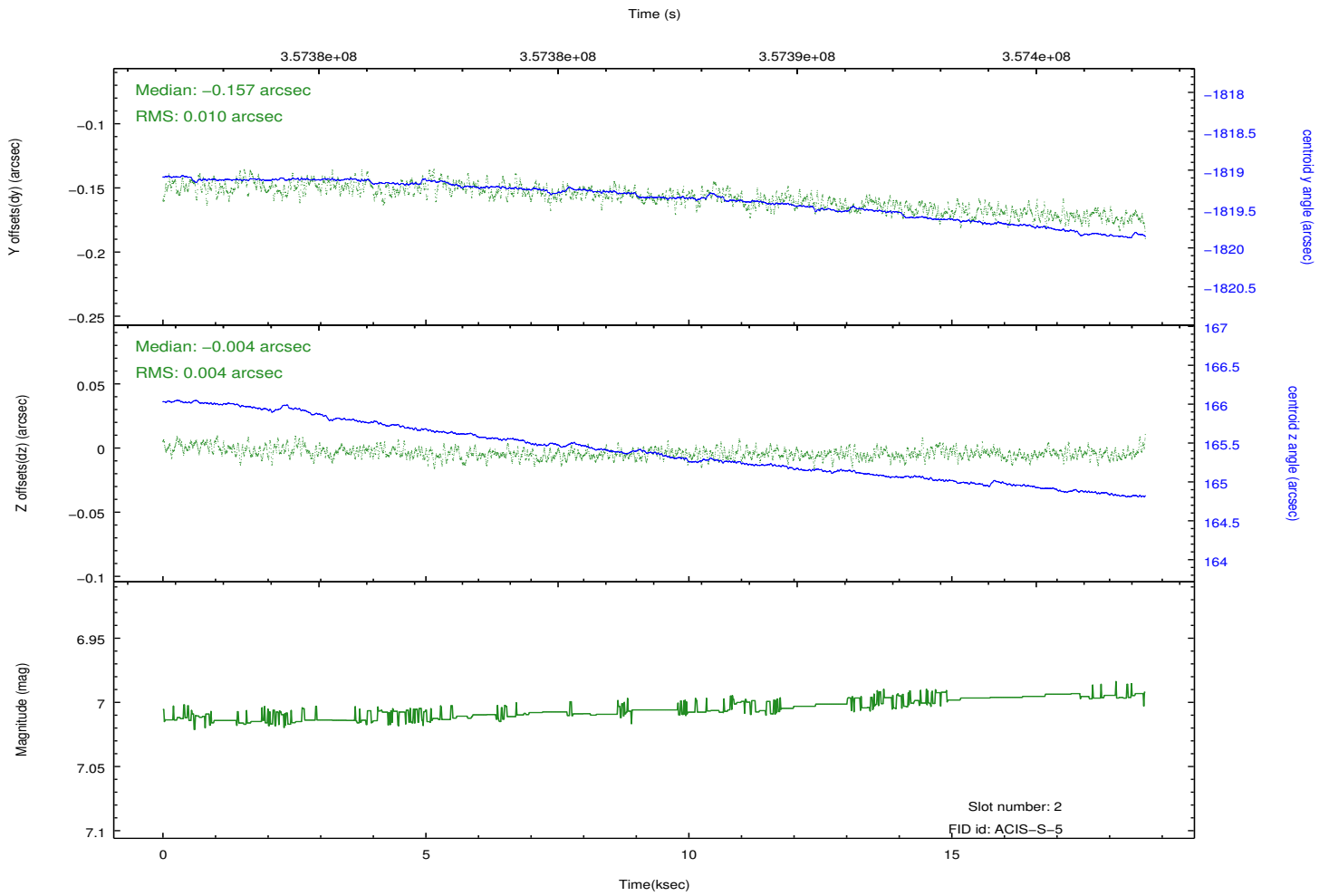
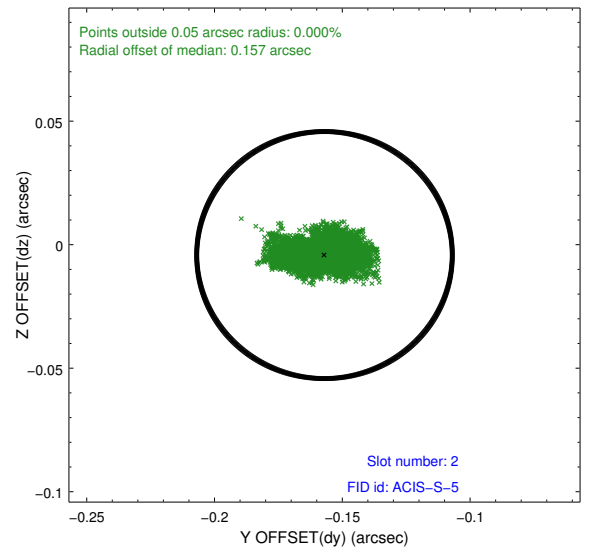
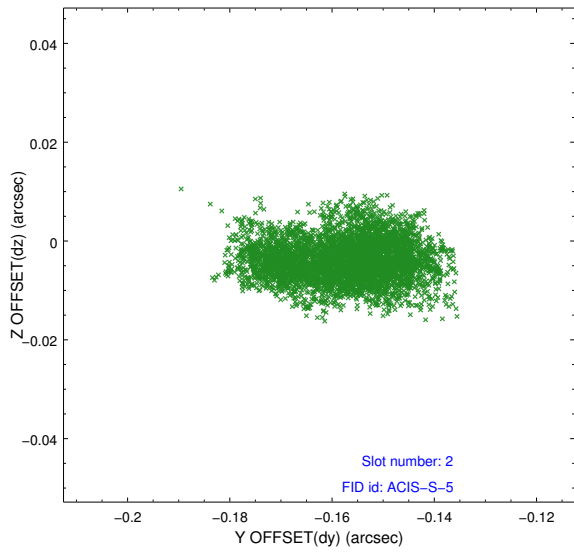
### 2.5.1 Slot 0



## 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)	2012.06.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.6799988

## A.2 Comments

Joint proposal with XMM.