

# V&V Reference Report

## L2 ASCDS Version : 10.5.2

Observation 19735 - L2 Version 1  
Chandra X-Ray Center

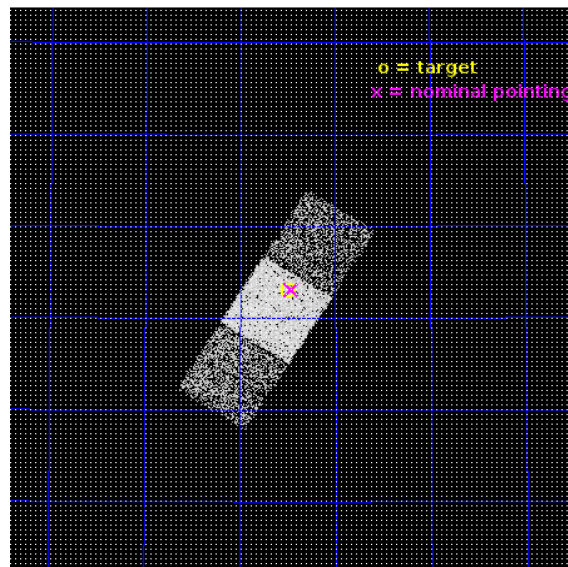
L2 Processing Date : Jan 2 2017

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# 1 Front

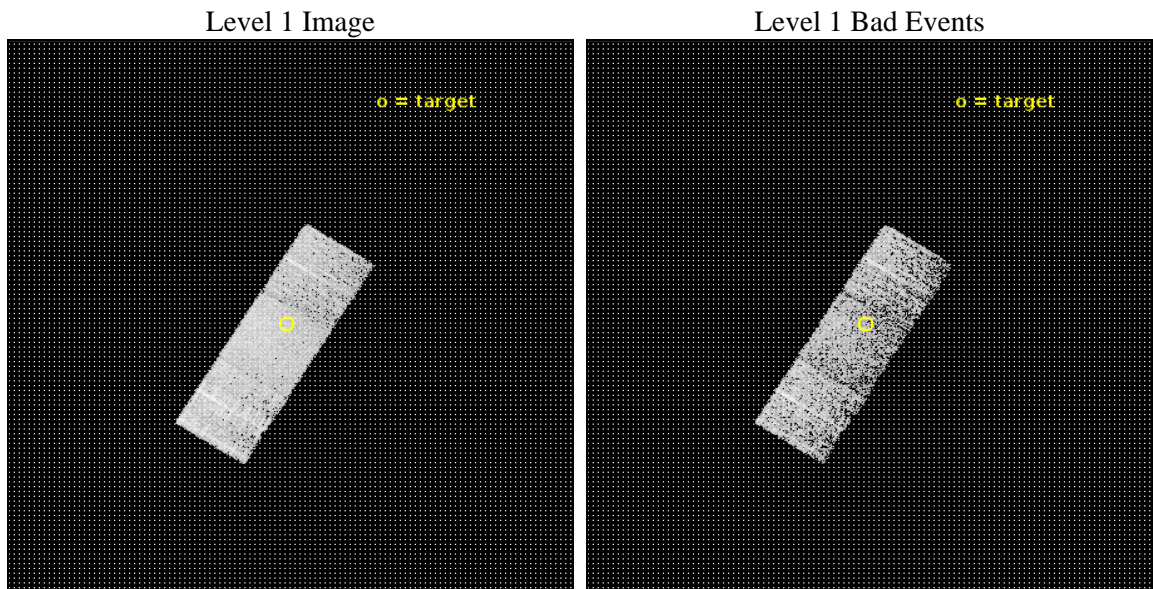
seq_num	703450	Sequence number
obs_id	19735	Observation id
title	A Chandra Snapshot Survey of Extraordinarily Luminous and Heavily Obscured Quasars from the WISE Survey	Proposal title
observer	Gordon Garmire	Principal investigator
object	W0859+4823	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	134.874583	Observer's specified target RA [deg]
dec_targ	48.383889	Observer's specified target Dec [deg]
ra_nom	134.86522419809	Nominal RA [deg]
dec_nom	48.385031993582	Nominal Dec [deg]
roll_nom	122.13850948953	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3114.9835501909	Sum of GTIs [s]
livetime	3074.2839968902	Livetime [s]
ontime6	3114.9425102472	Sum of GTIs [s]
ontime7	3114.9835501909	Sum of GTIs [s]
ontime8	3114.9014701843	Sum of GTIs [s]
l2events	16711	Number of level 2 events



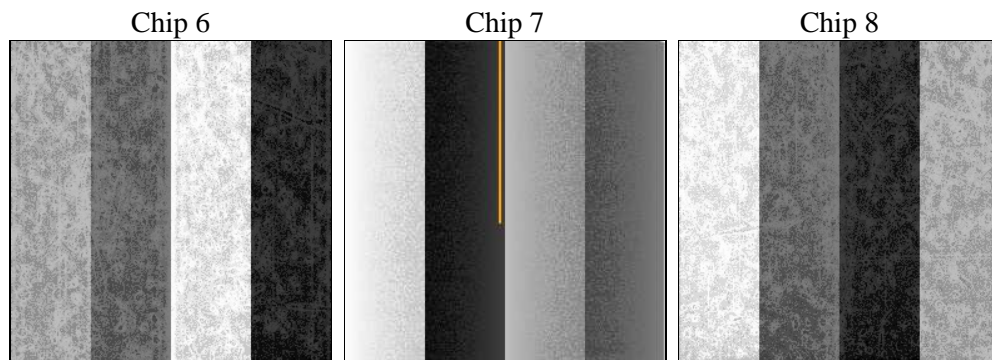
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3114.9835501909	Sum of GTIs [s]
caldsver	4.7.3	&#160	ontime6	3114.9425102472	Sum of GTIs [s]
date	2017-01-02T11:37:25	Date and time of file creation	ontime7	3114.9835501909	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	3114.9014701843	Sum of GTIs [s]
			l1events	78221	Number of level 1 events

### 2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	20629	27357	30235
rejected events	18207	15112	21829
rejected %	88%	55%	72%

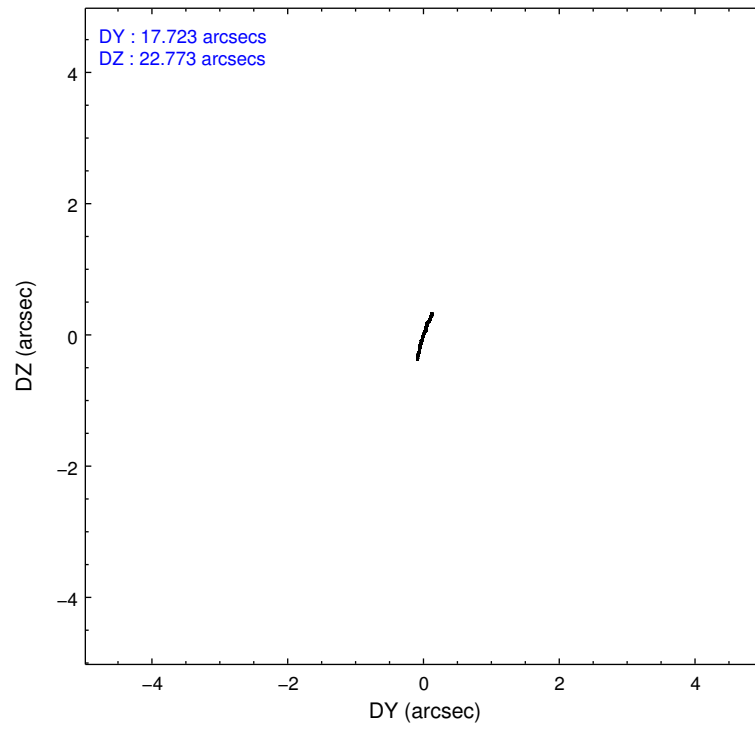
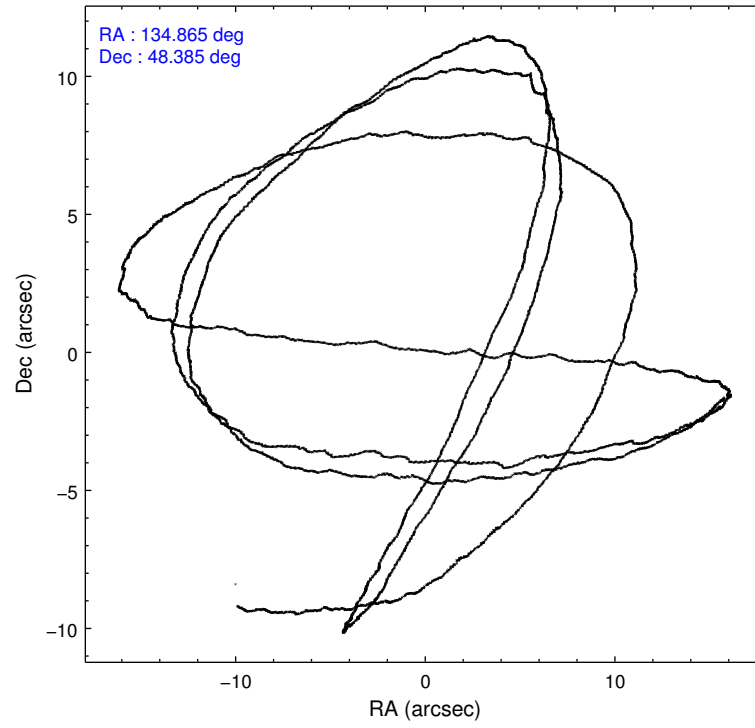
	ccd 6	ccd 7	ccd 8
grade 0 events	787	1024	2301
	3%	3%	7%
grade 1 events	8	34	24
	0%	0%	0%
grade 2 events	558	2488	2090
	2%	9%	6%
grade 3 events	261	1041	788
	1%	3%	2%
grade 4 events	240	982	803
	1%	3%	2%
grade 5 events	1044	2767	1589
	5%	10%	5%
grade 6 events	578	6721	2427
	2%	24%	8%
grade 7 events	17153	12300	20213
	83%	44%	66%

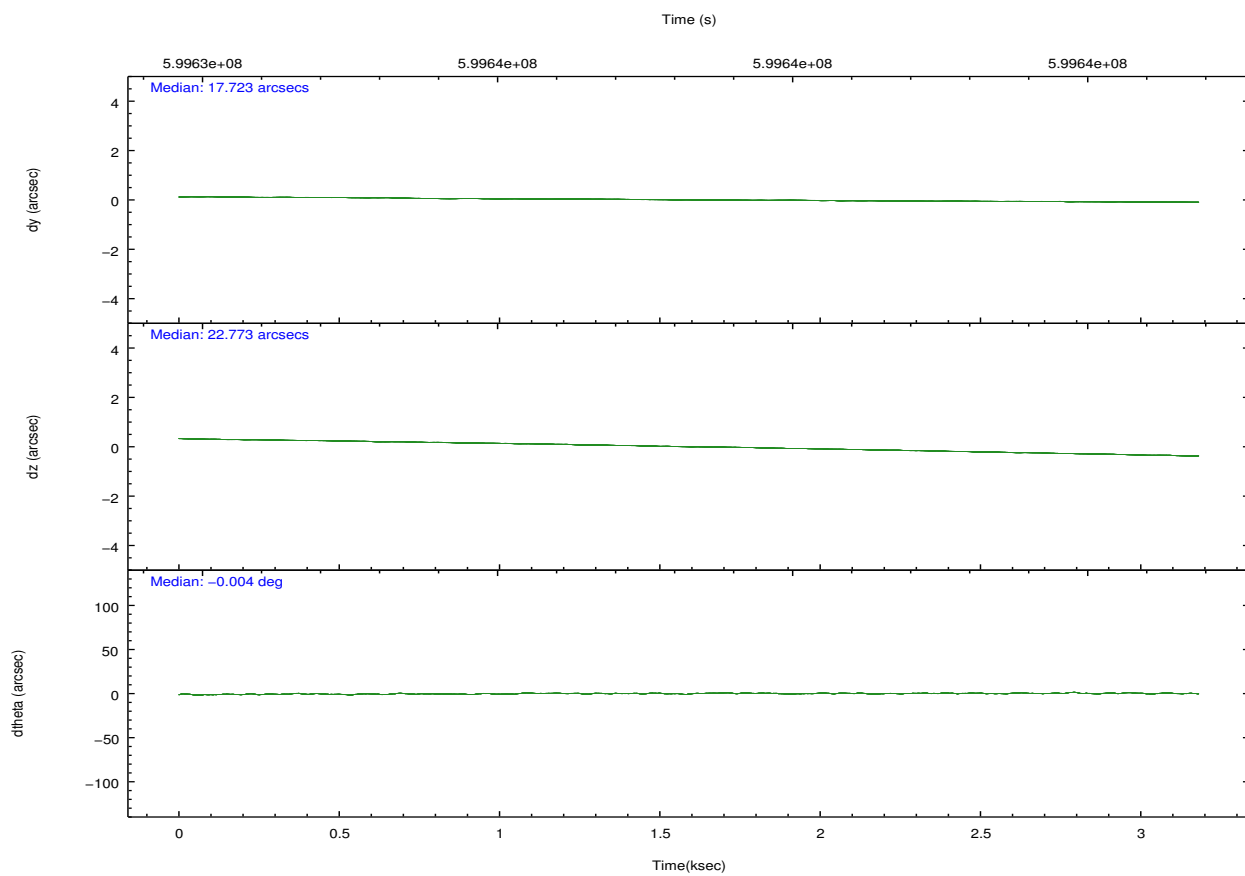
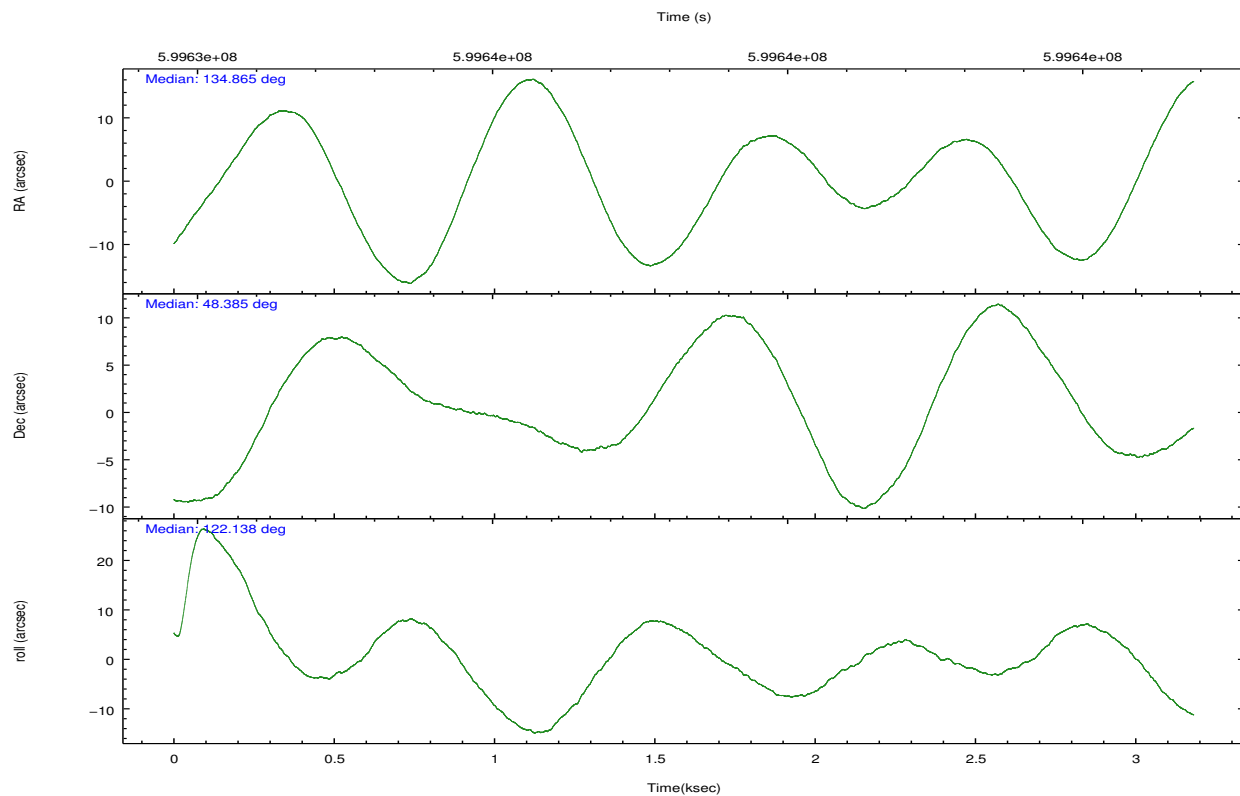


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	134.902052	134.8652241980899	Subarray requested	NONE	NONE
[deg] Pointing Dec	48.372675	48.38503199358186	Alternating exposures requested	N	N
[deg] Pointing Roll	121.954452	122.138509489533	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	599634237.184000	599632943.05186			
Observation start date	2017-01-01T05:02:48	2017-01-01T04:42:23			
[s] Observation end time (MET)	599637237.184000	599637614.48963			
Observation end date	2017-01-01T05:52:48	2017-01-01T06:00:14			
Read mode	TIMED	TIMED			

## 2.3 Aspect



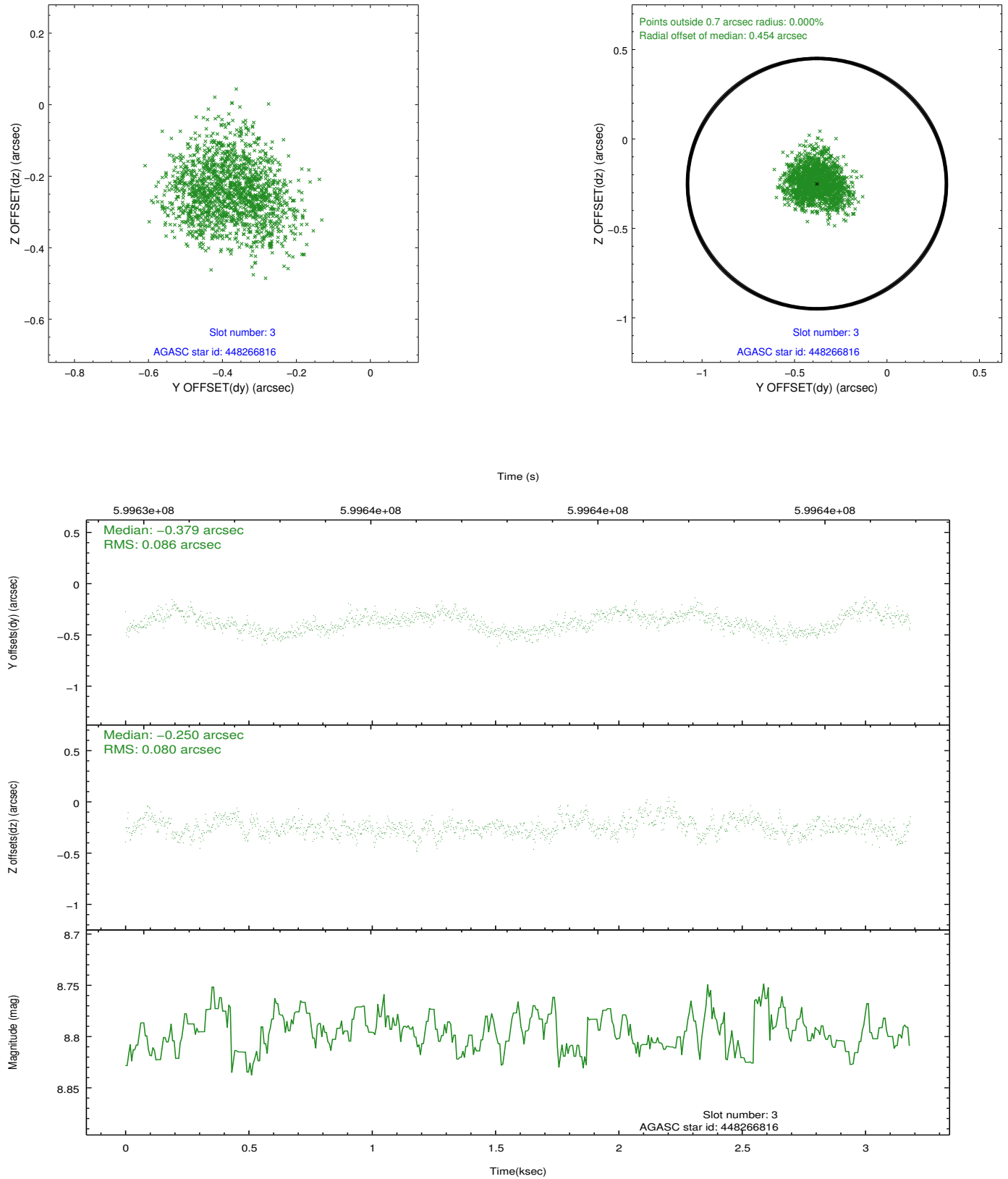


### Slot Statistics

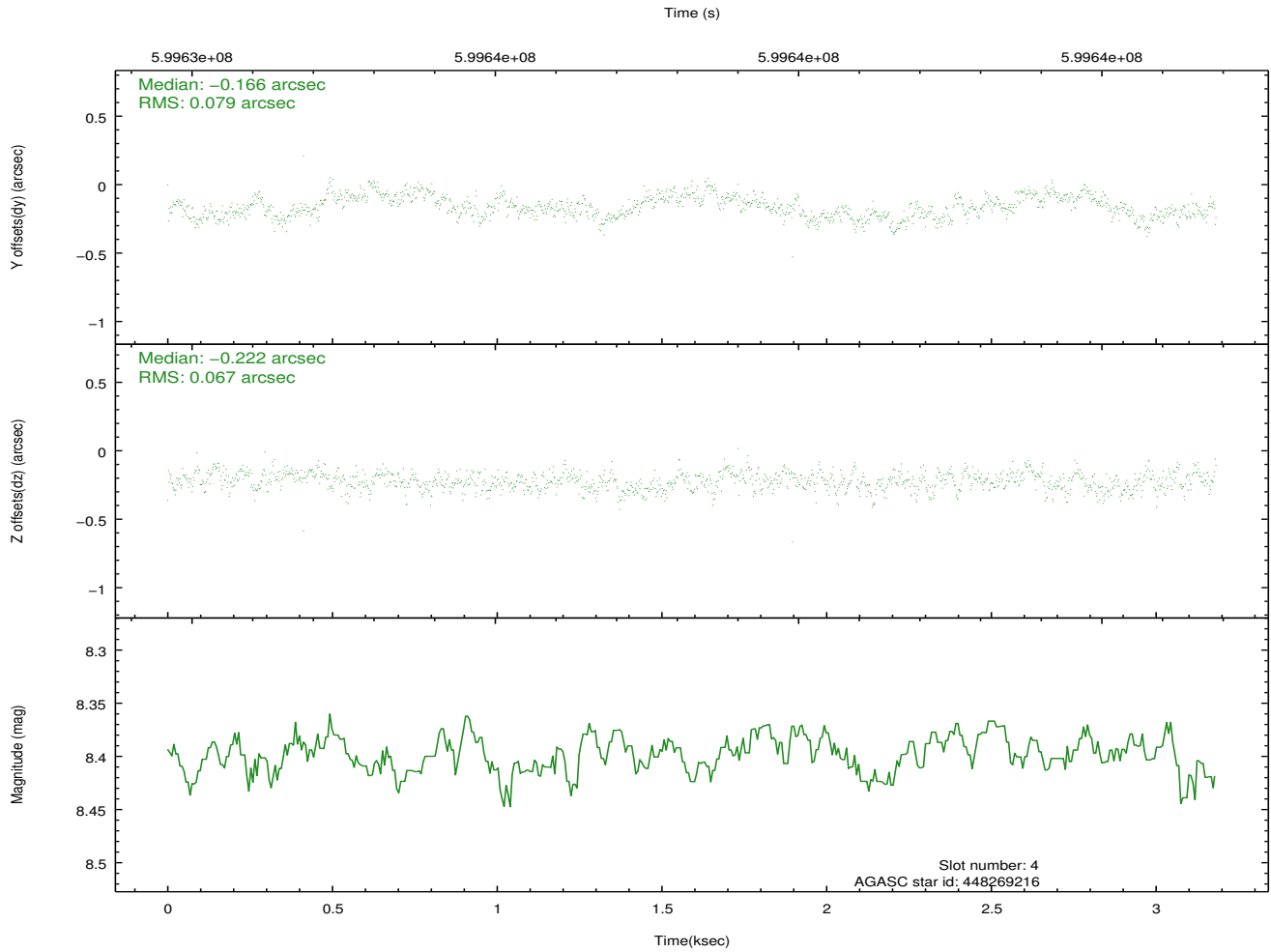
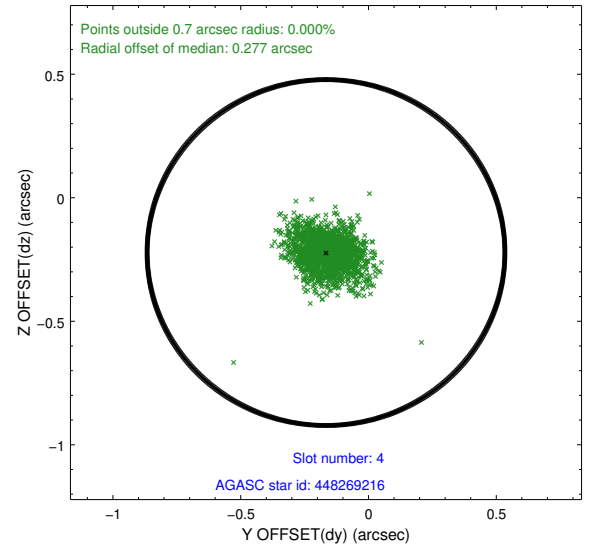
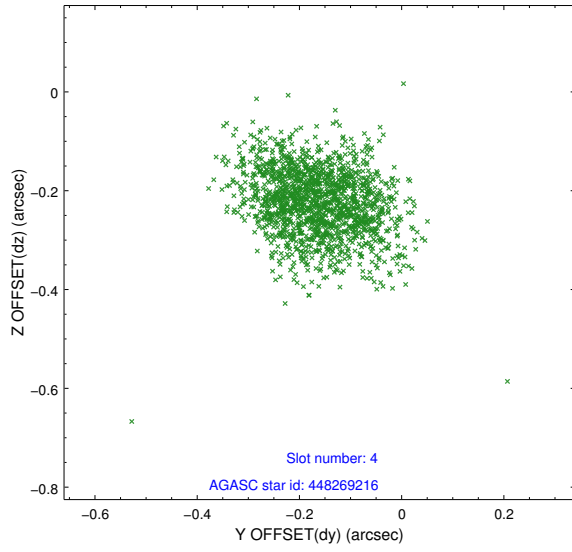
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	776	-0.166	-0.119	0.006	0.010	0.000000	0.000000	-770.96	-1744.47
1	FID		ACIS-S-4	7.06	776	0.410	0.112	0.006	0.010	0.000000	0.000000	2141.99	162.13
2	FID		ACIS-S-5	7.06	776	-0.275	0.016	0.007	0.011	0.000000	0.000000	-1821.33	158.02
3	GUIDE	used	448266816	8.80	1551	-0.379	-0.250	0.128	0.194	134.341163	48.635767	1514.29	627.85
4	GUIDE	used	448269216	8.40	1553	-0.166	-0.222	0.107	0.177	134.614392	48.049165	-619.43	1203.50
5	GUIDE	used	448272128	8.34	1553	0.077	-0.154	0.101	0.168	134.845589	48.271737	-235.27	307.97
6	GUIDE	used	449184800	9.29	1550	0.441	0.378	0.140	0.225	135.793320	48.026951	-2180.08	-1168.01
7	GUIDE	used	449192024	8.60	1550	0.030	0.247	0.105	0.173	135.123260	48.556323	281.93	-797.98

## 2.4 Star Slots

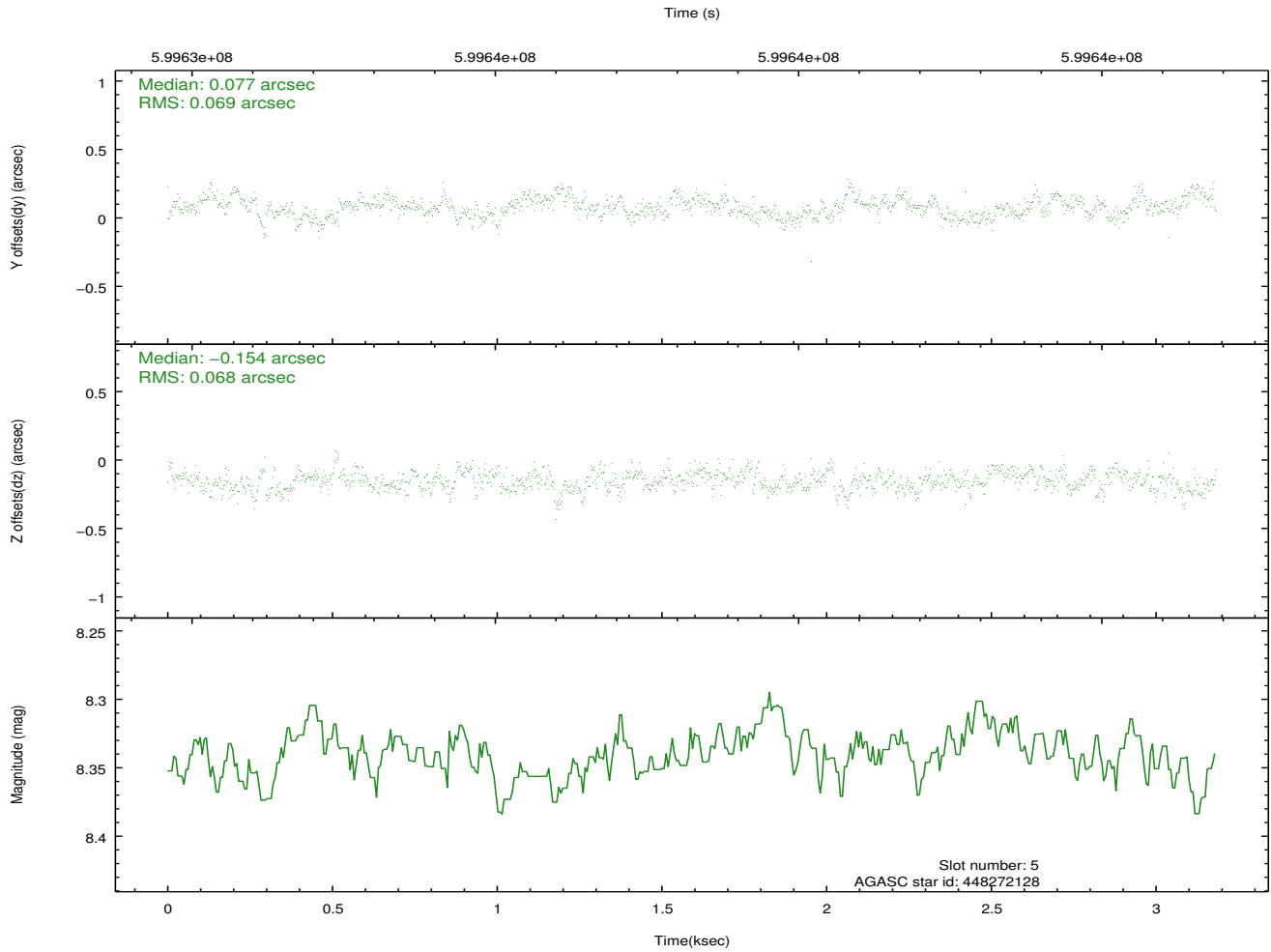
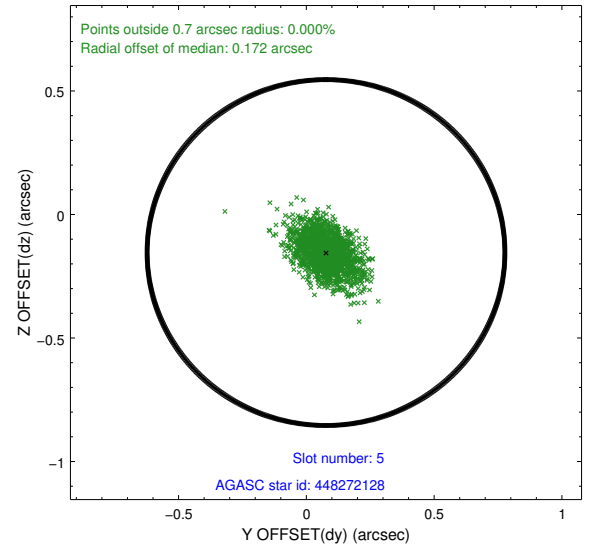
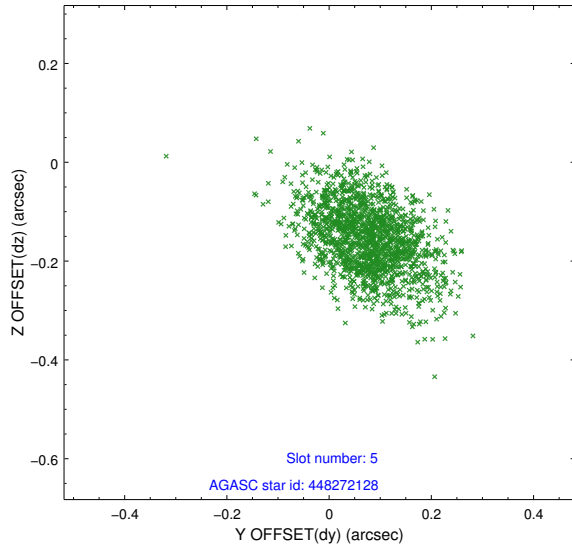
### 2.4.1 Slot 3



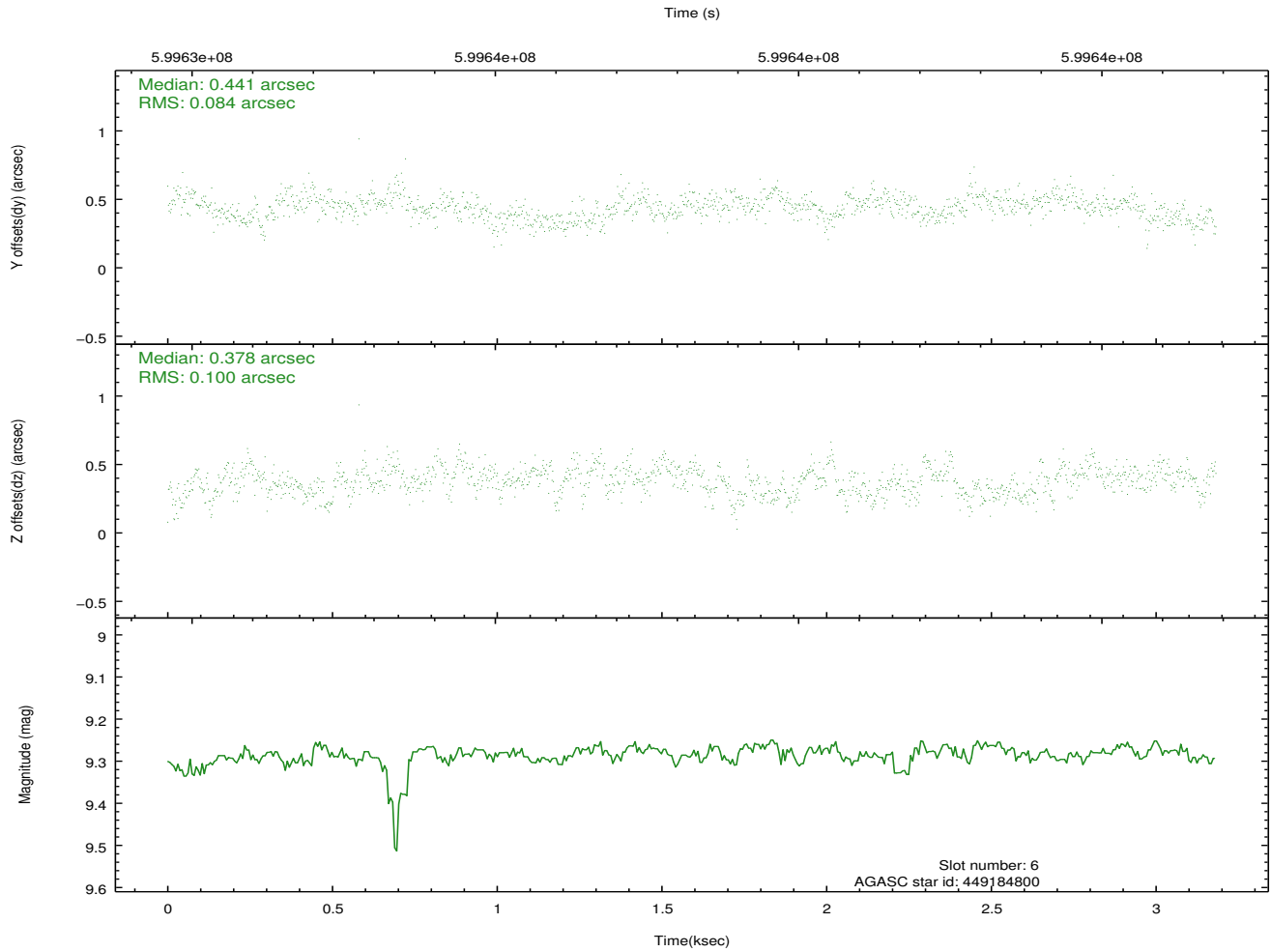
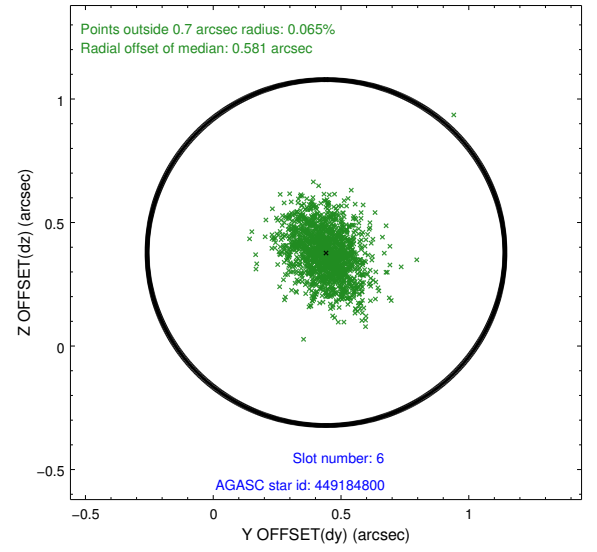
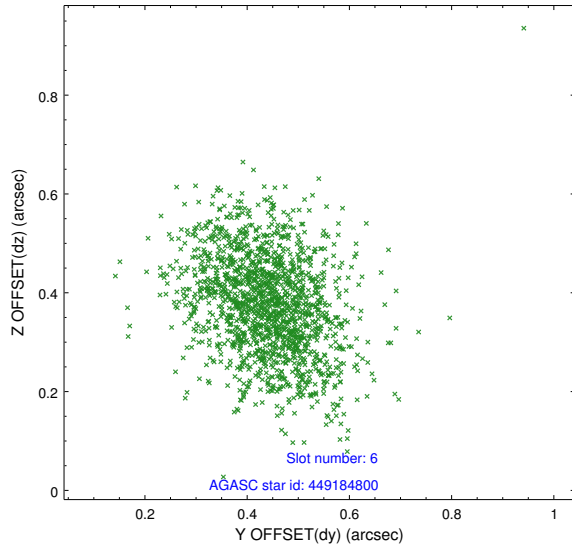
## 2.4.2 Slot 4



### 2.4.3 Slot 5

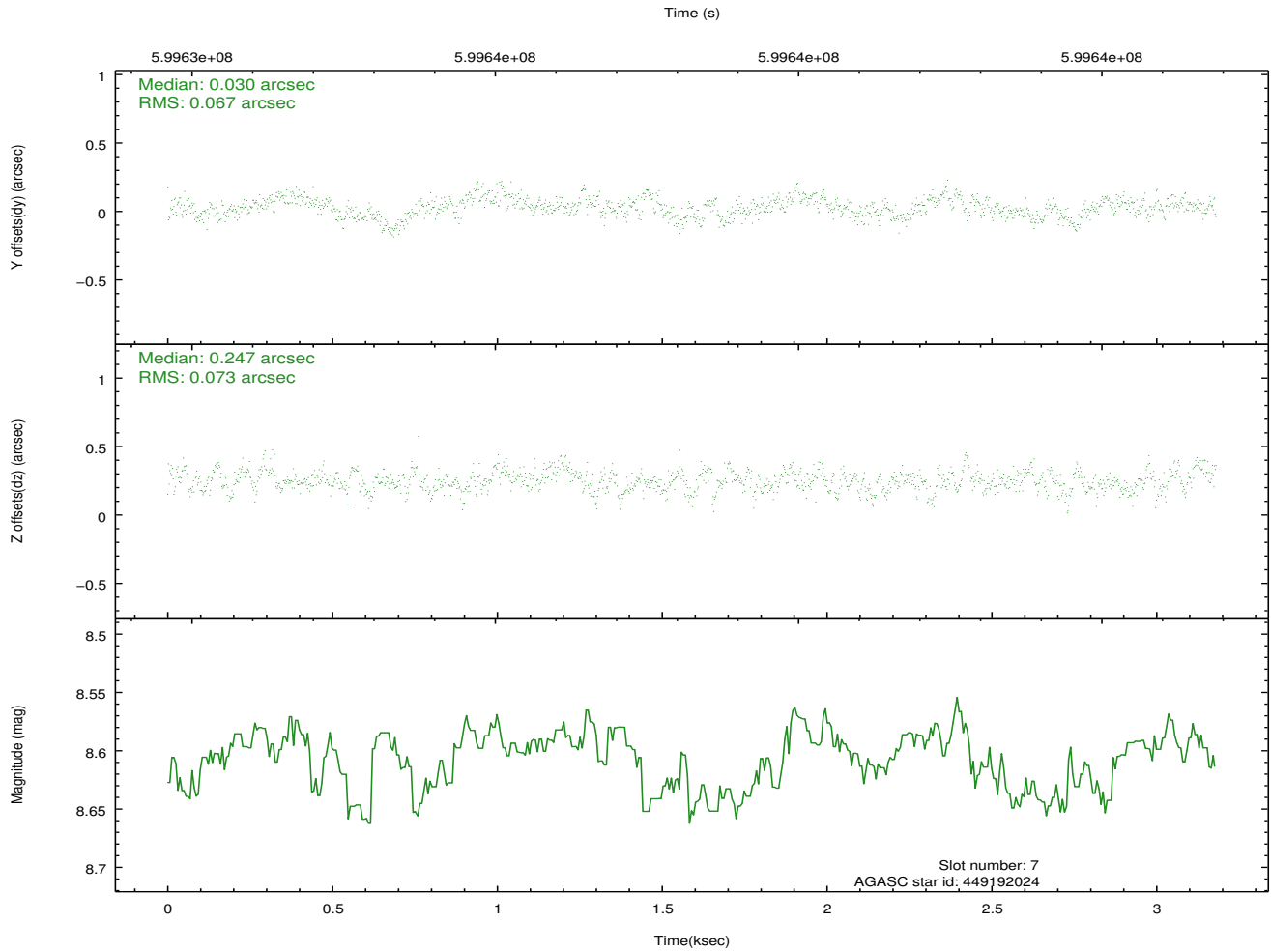
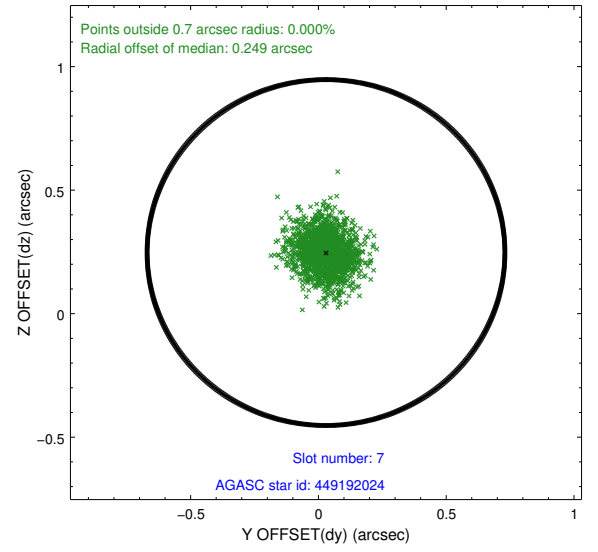
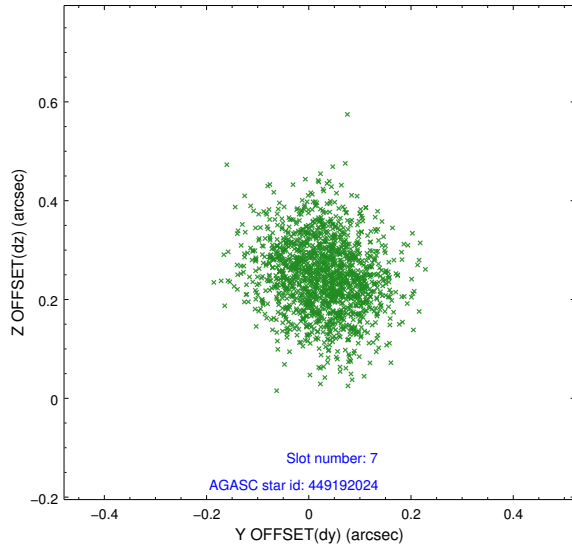


## 2.4.4 Slot 6



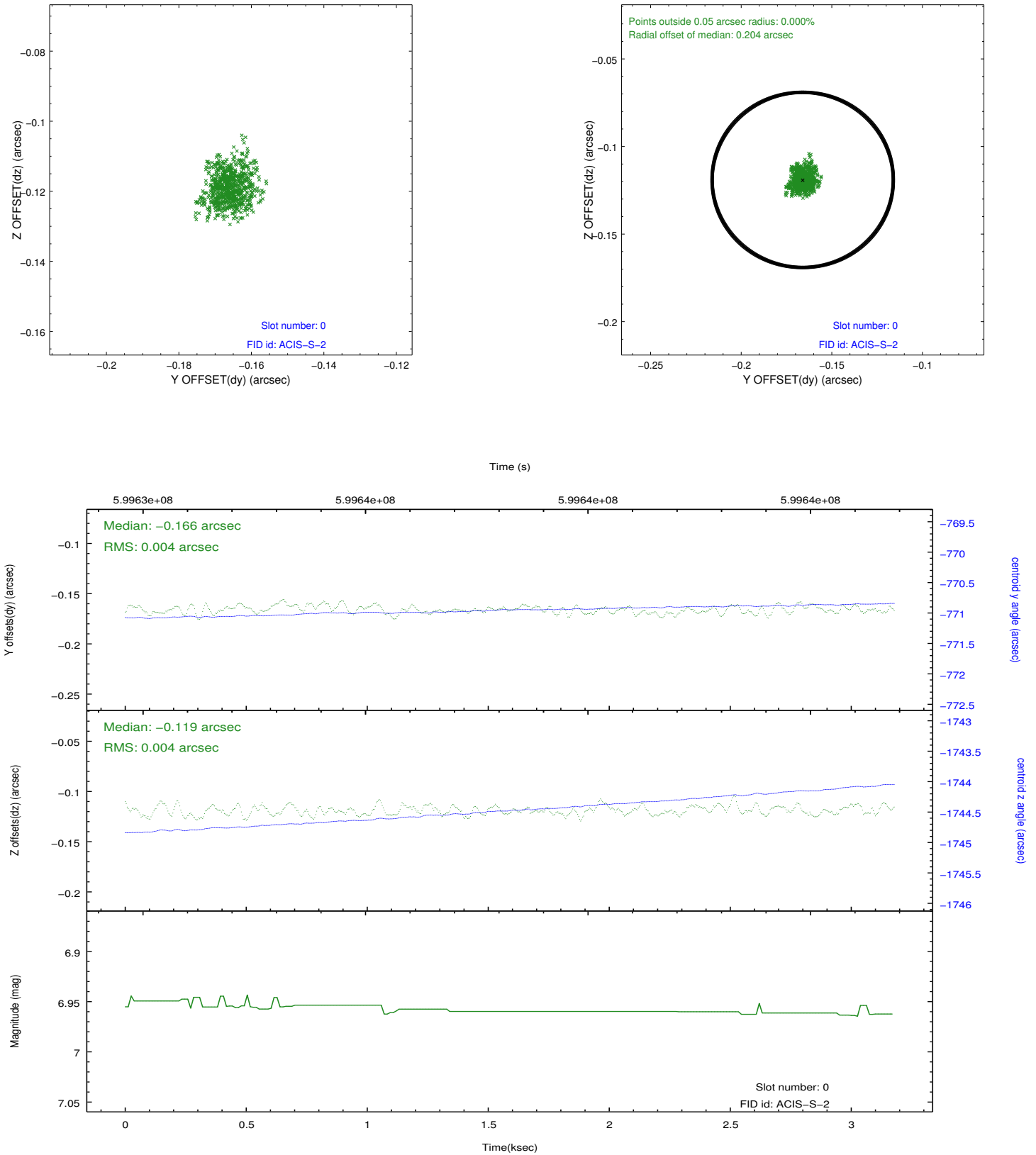


## 2.4.5 Slot 7

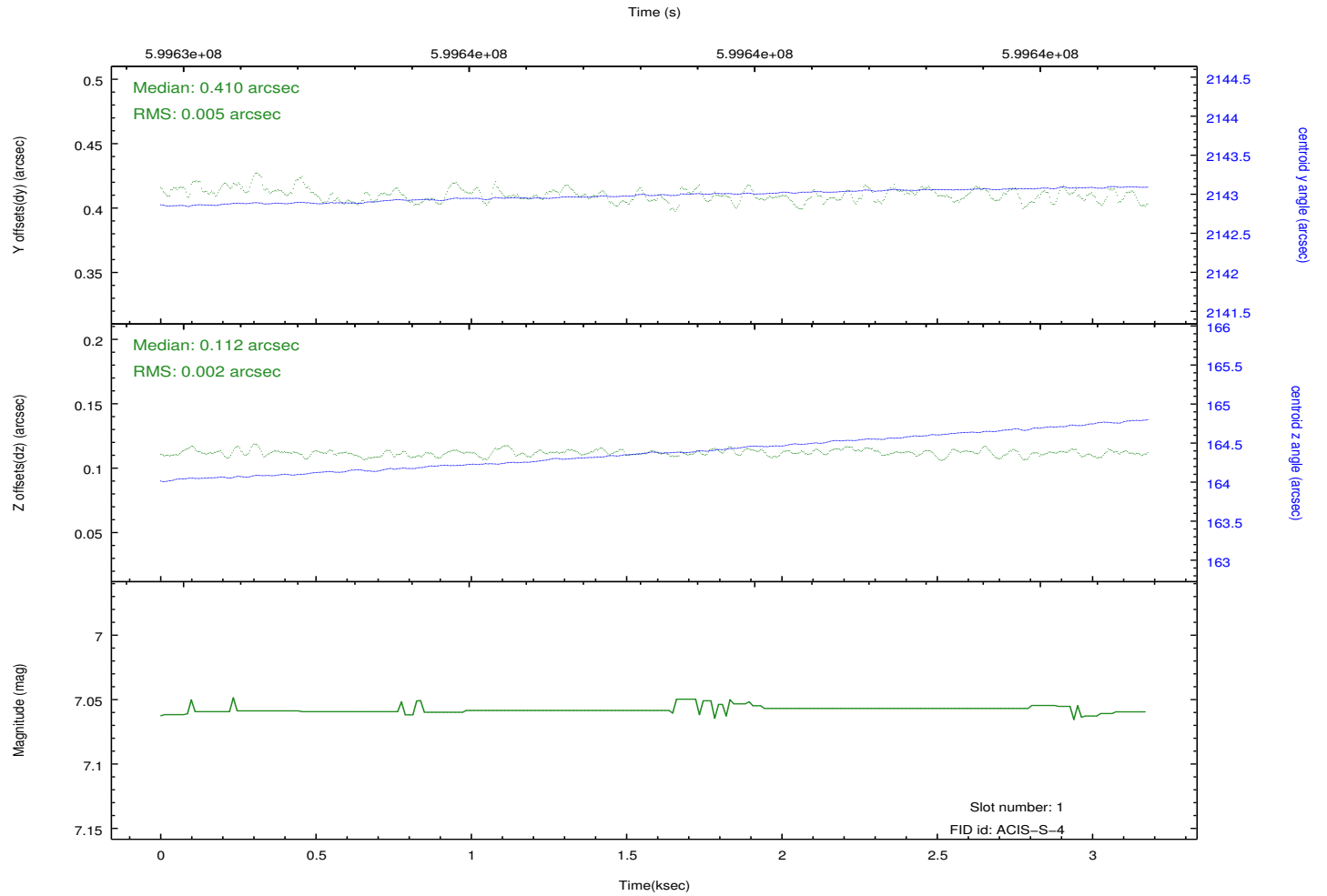
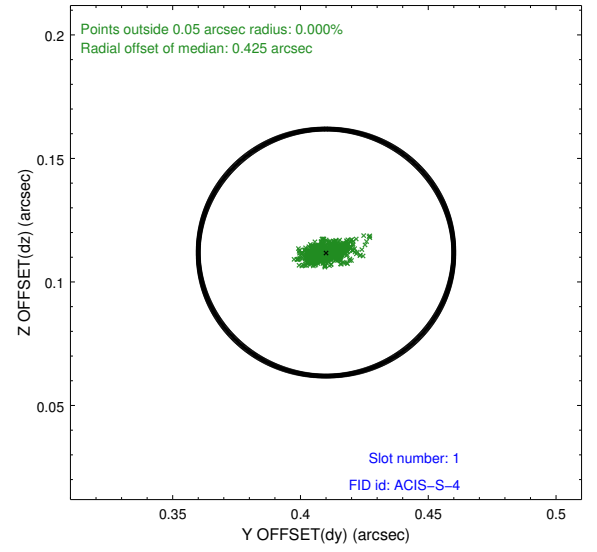
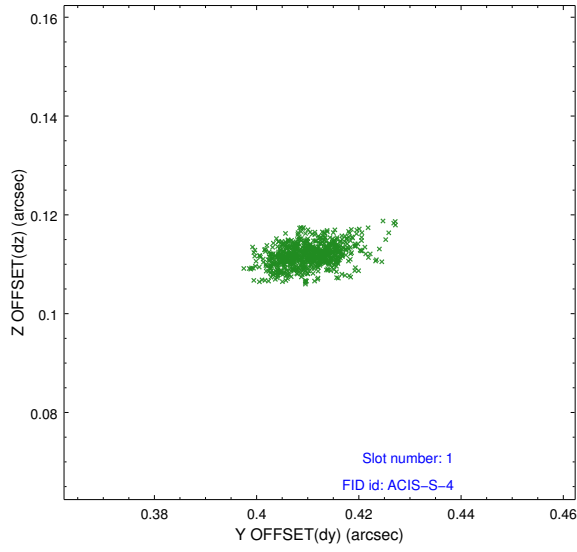


## 2.5 FID Slots

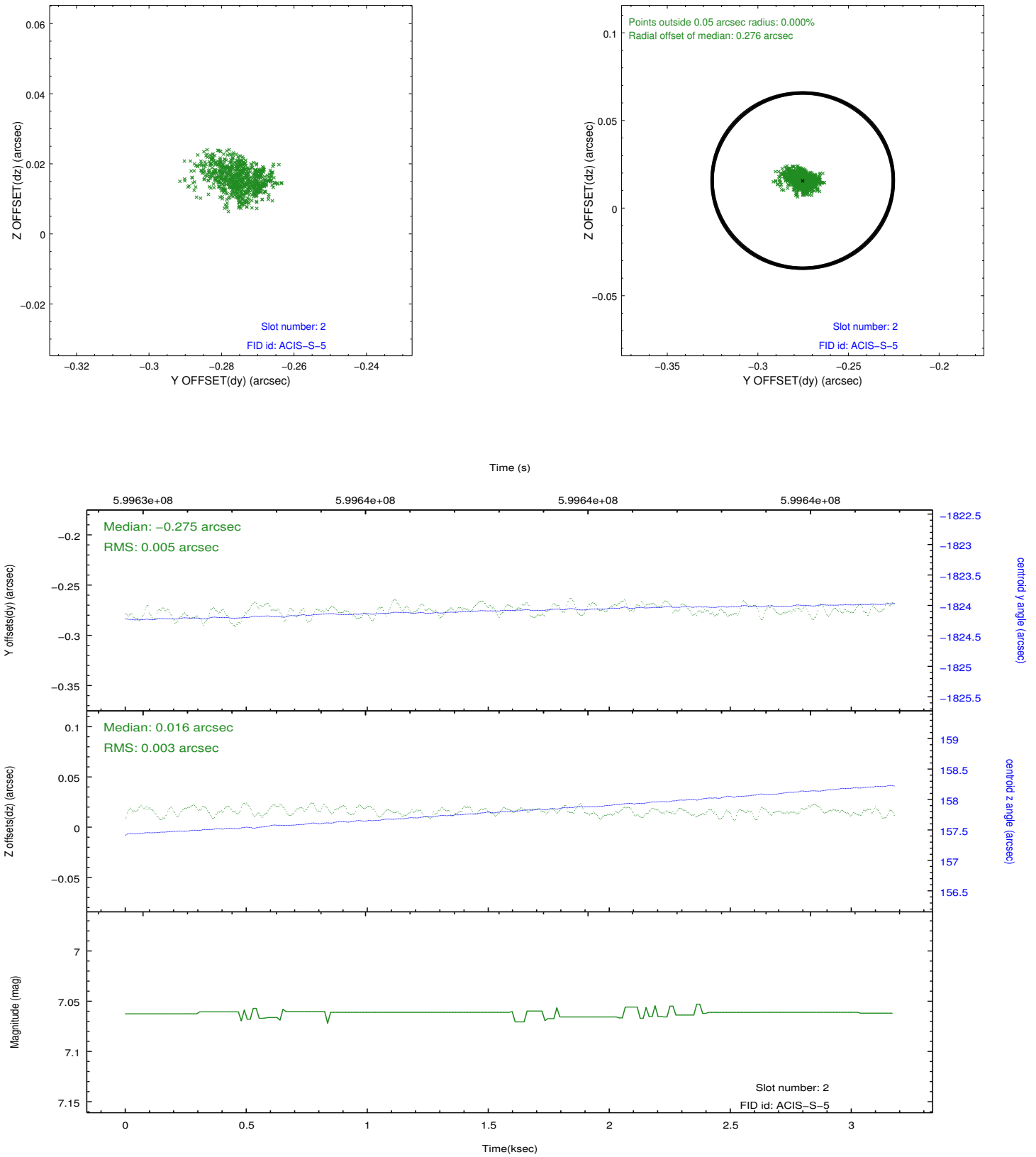
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1149835501909

### A.2 Comments