

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7765 - L2 Version 3  
Chandra X-Ray Center

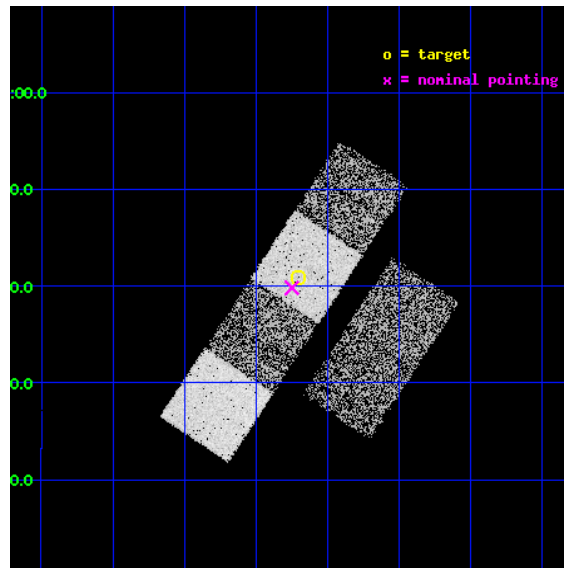
L2 Processing Date : Apr 16 2012

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# 1 Front

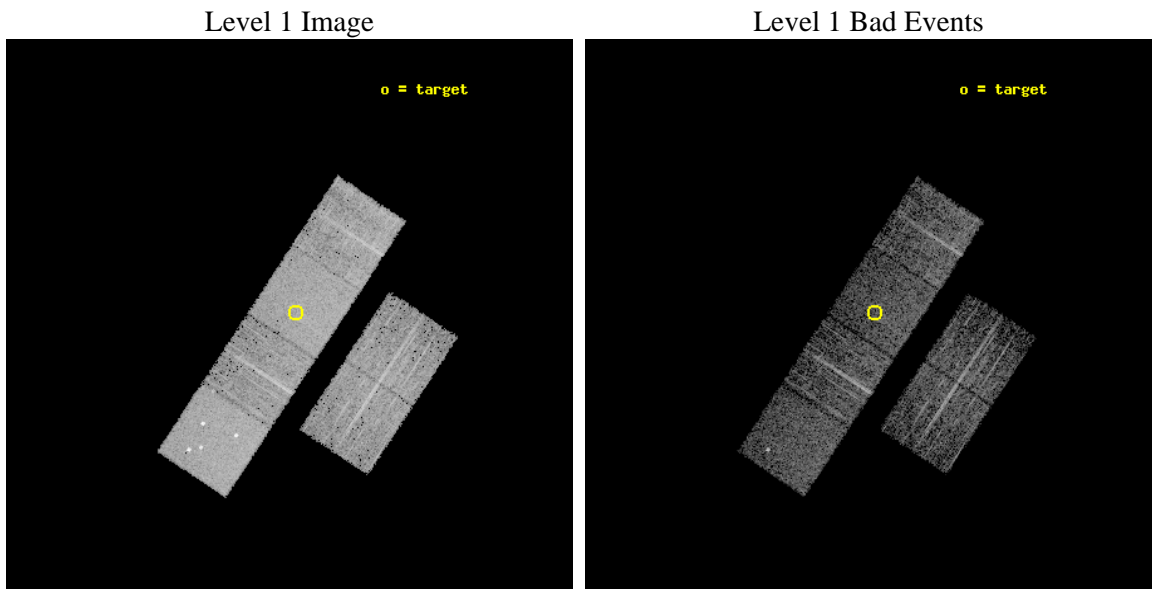
seq_num	701433	Sequence number
obs_id	7765	Observation id
title	Investigating AGN Activity in Low Surface Brightness Galaxies	Prop
observer	Dr Mousumi Das	Principal investigator
object	UGC 3059	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	67.426667	Observer's specified target RA [deg]
dec_targ	3.681944	Observer's specified target Dec [deg]
ra_nom	67.436955191001	Nominal RA [deg]
dec_nom	3.6636430993227	Nominal Dec [deg]
roll_nom	303.40470187453	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3343.9999876022	Sum of GTIs [s]
livetime	3301.6562462442	Livetime [s]
ontime2	3343.9999876022	Sum of GTIs [s]
ontime3	3343.9999876022	Sum of GTIs [s]
ontime5	3343.9999876022	Sum of GTIs [s]
ontime6	3343.9999876022	Sum of GTIs [s]
ontime7	3343.9999876022	Sum of GTIs [s]
ontime8	3343.9999876022	Sum of GTIs [s]
l2events	48688	Number of level 2 events



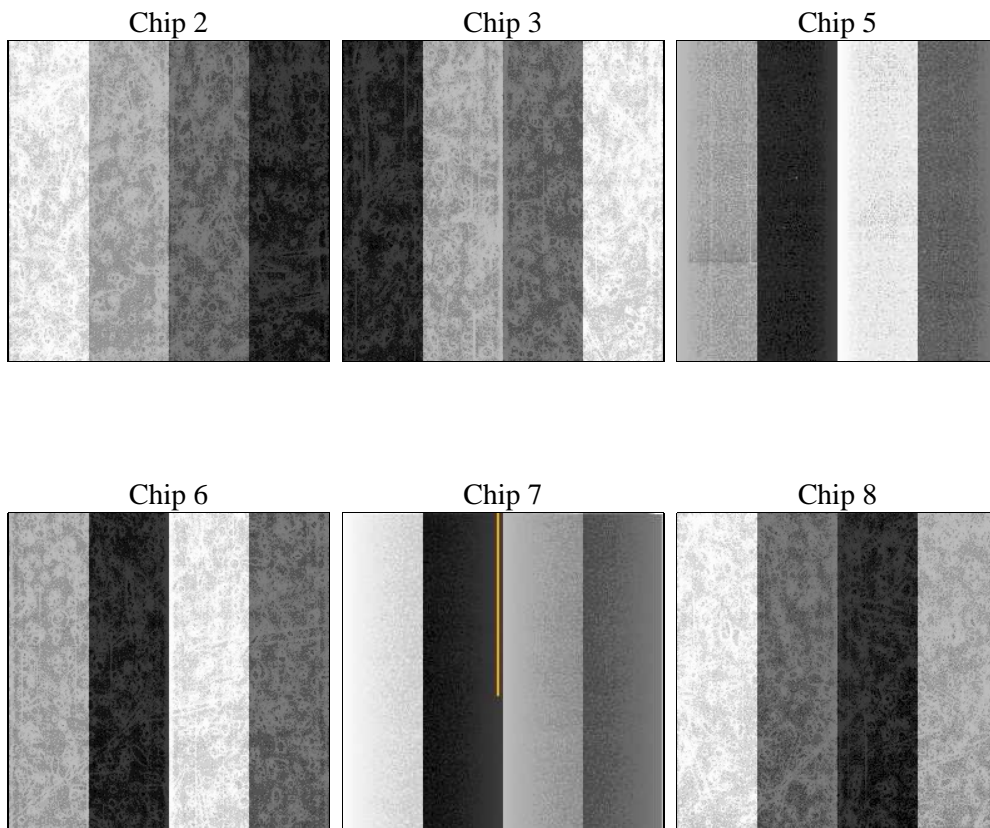
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	3343.9999876022	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	3343.9999876022	Sum of GTIs [s]
date	2012-04-16T13:15:31	Date and time of file creation	ontime3	3343.9999876022	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3343.9999876022	Sum of GTIs [s]
			ontime6	3343.9999876022	Sum of GTIs [s]
			ontime7	3343.9999876022	Sum of GTIs [s]
			ontime8	3343.9999876022	Sum of GTIs [s]
			l1events	277496	Number of level 1 events

### 2.1.4 Events

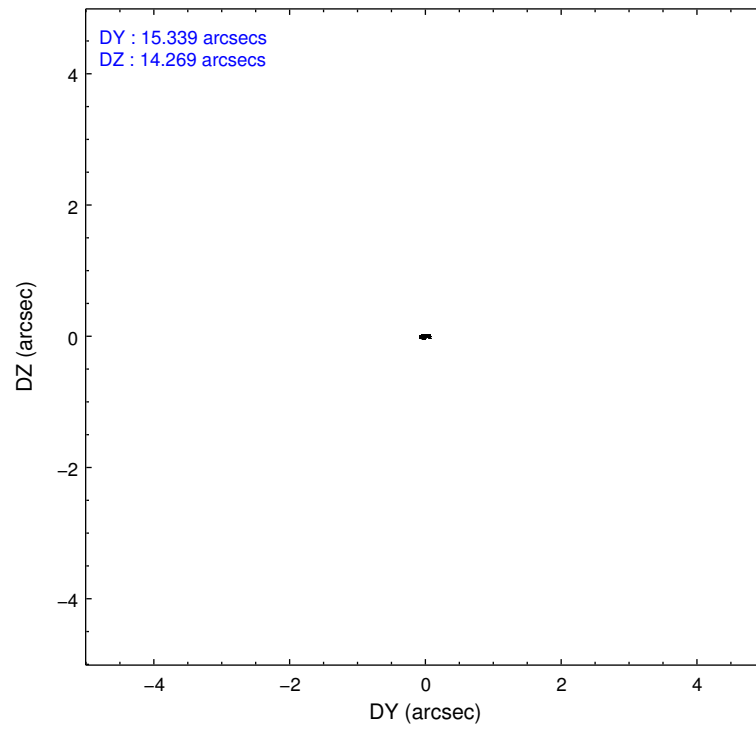
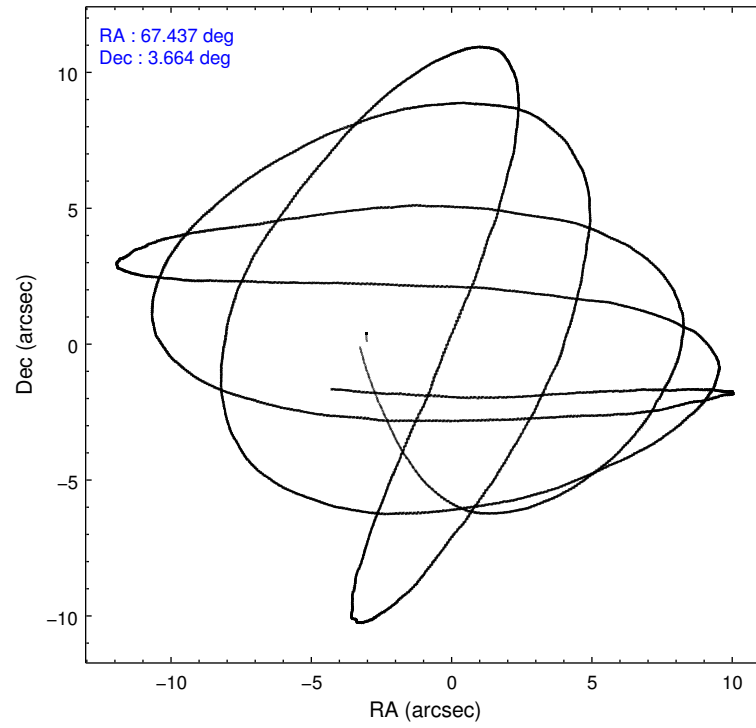
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	37858	37007	61421	39391	52280	49539	grade 0 events	1760	1927	4890	1832	1843	3407
rejected events	34451	33503	38396	35713	35434	40796		4%	5%	7%	4%	3%	6%
rejected %	91%	90%	62%	90%	67%	82%	grade 1 events	27	23	96	21	53	29
								0%	0%	0%	0%	0%	0%
							grade 2 events	989	848	8592	1022	4358	2579
								2%	2%	13%	2%	8%	5%
							grade 3 events	409	414	965	433	1782	1155
								1%	1%	1%	1%	3%	2%
							grade 4 events	414	401	890	462	1890	1005
								1%	1%	1%	1%	3%	2%
							grade 5 events	1482	1764	4200	1738	4969	2483
								3%	4%	6%	4%	9%	5%
							grade 6 events	759	784	14106	937	11659	2993
								2%	2%	22%	2%	22%	6%
							grade 7 events	32018	30846	27682	32946	25726	35888
								84%	83%	45%	83%	49%	72%

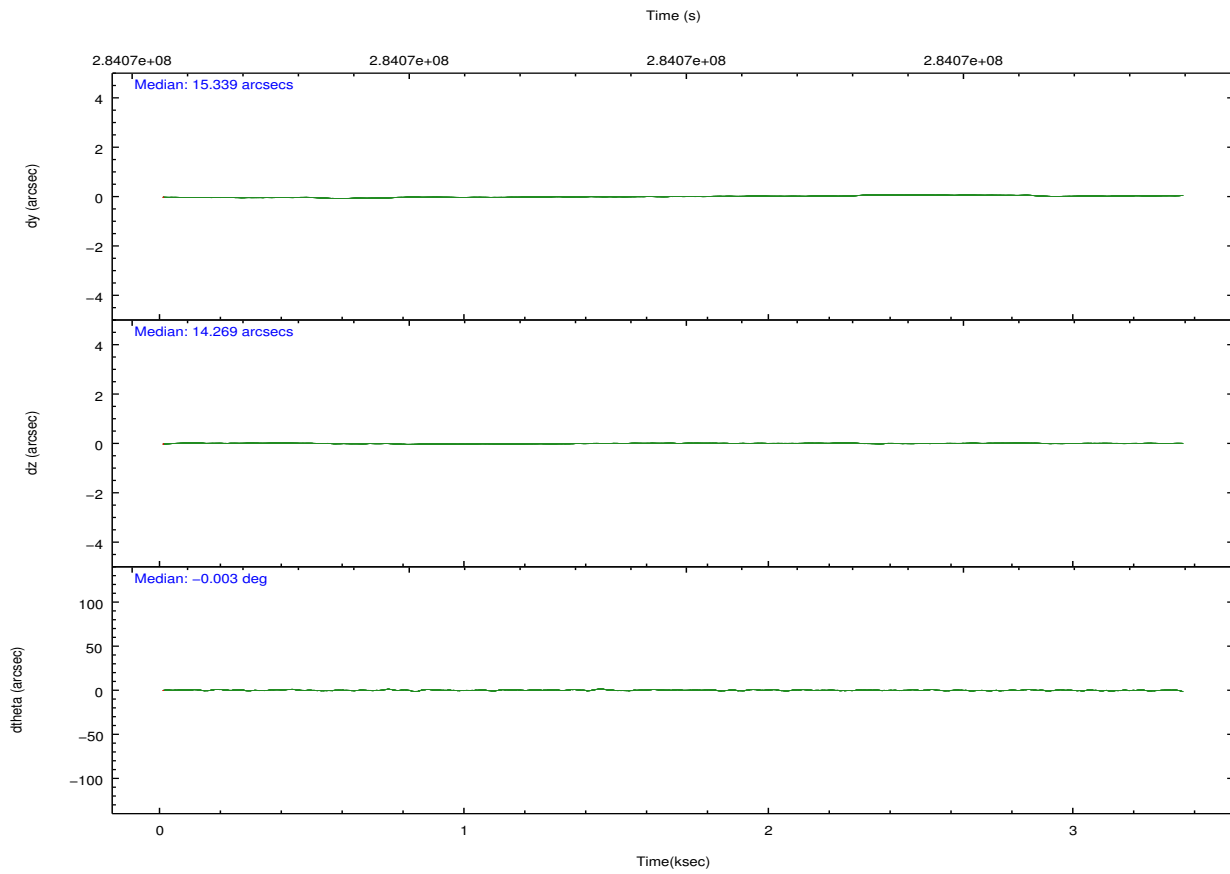
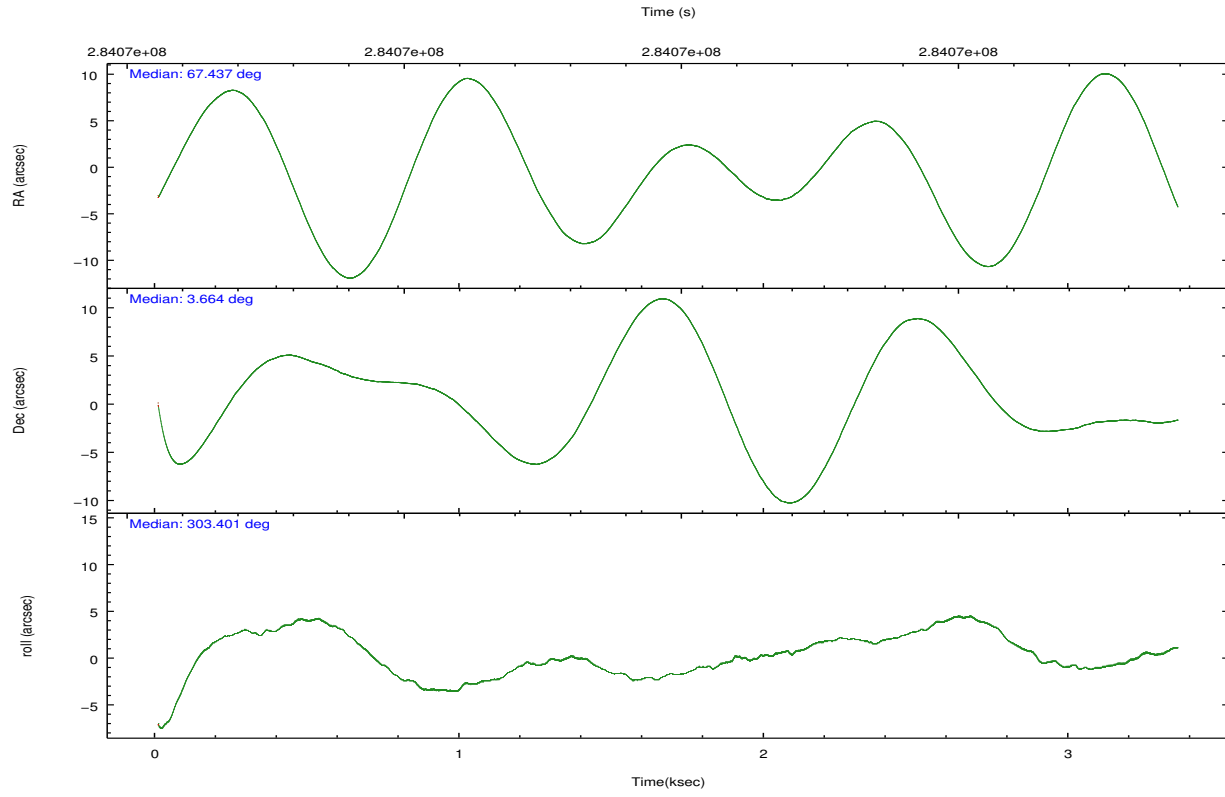


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	67.412077	67.43695519100145	CCD I2 on	O1	Y
[deg] Pointing Dec	3.675581	3.663643099322656	CCD I3 on	O2	Y
[deg] Pointing Roll	303.249675	303.4047018745259	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	284070434.184000	284068924.03352	CCD S5 on	N	N
Observation start date	2007-01-01T20:26:09	2007-01-01T20:02:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	284073634.184000	284074545.13378	On-chip summing requested	N	N
Observation end date	2007-01-01T21:19:29	2007-01-01T21:35:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



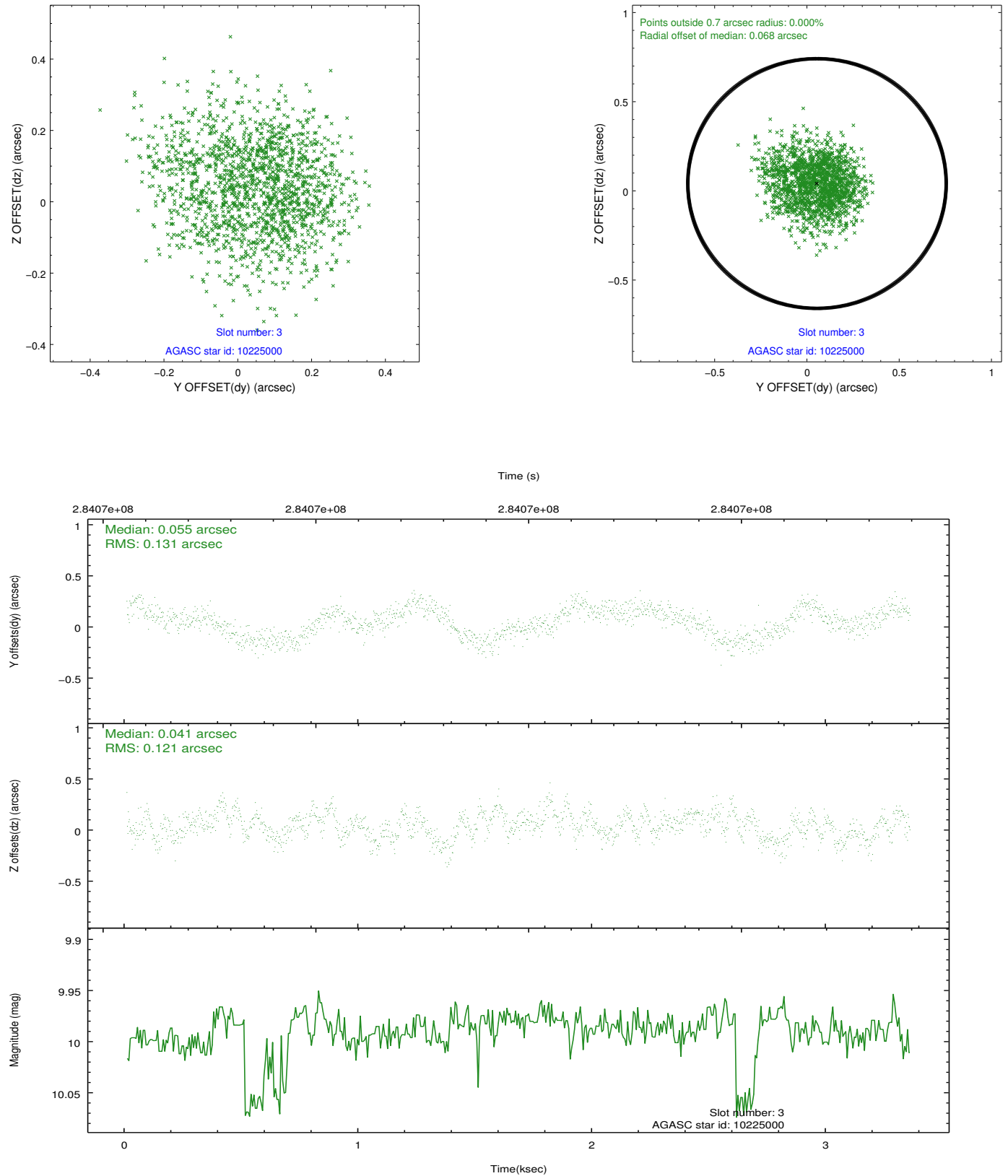


### Slot Statistics

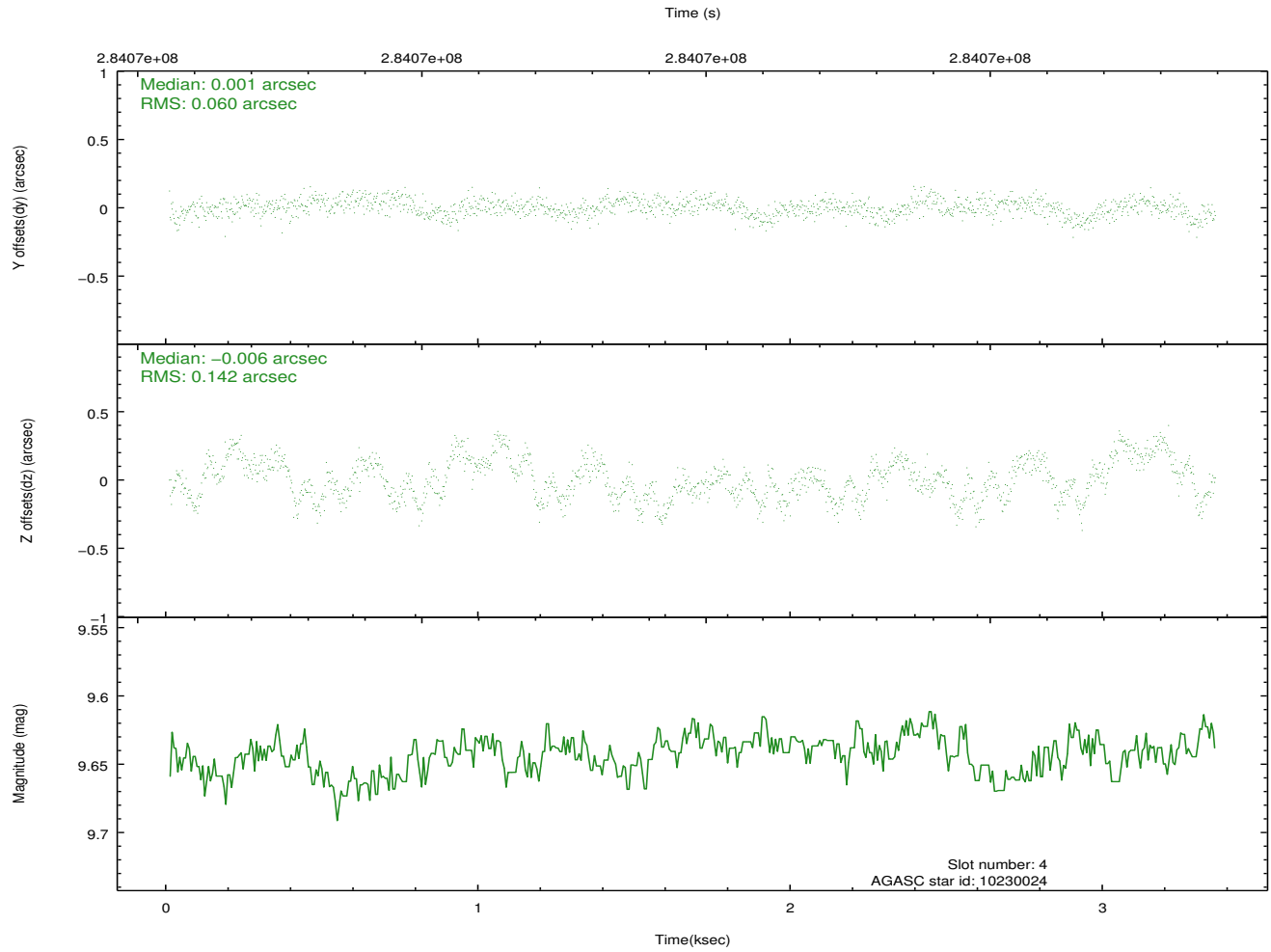
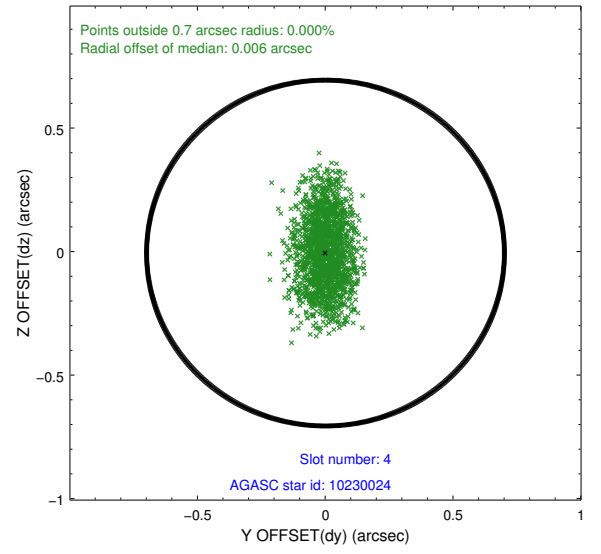
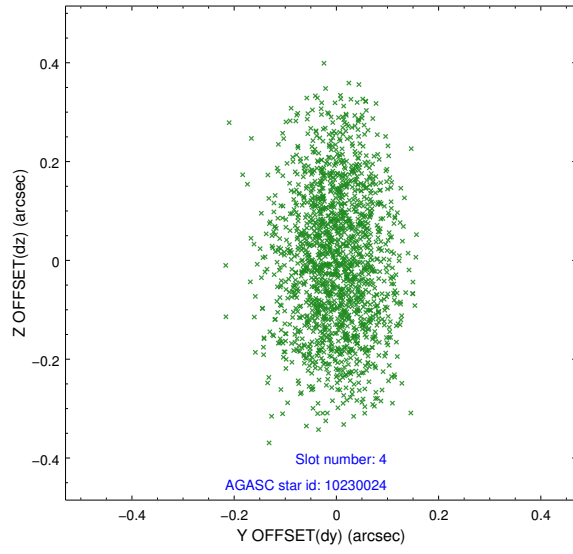
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	817	-0.141	-0.091	0.005	0.009	0.000000	0.000000	-768.49	-1735.65
1	FID	ACIS-S-4	7.20	818	0.156	0.076	0.005	0.009	0.000000	0.000000	2144.25	170.98
2	FID	ACIS-S-6	7.34	818	-0.043	0.023	0.006	0.011	0.000000	0.000000	396.06	810.51
3	GUIDE	10225000	9.99	1633	0.055	0.041	0.194	0.297	67.059827	3.078229	1104.10	-2238.21
4	GUIDE	10230024	9.64	1634	0.001	-0.006	0.165	0.279	66.824131	3.490432	-600.78	-2133.77
5	GUIDE	11278568	8.90	1633	0.040	-0.053	0.083	0.131	67.732114	3.470930	1246.26	556.34
6	GUIDE	11280160	9.02	1632	-0.026	0.018	0.100	0.159	67.929428	3.317760	2096.96	849.12
7	GUIDE	10232440	8.95	1632	-0.065	-0.003	0.078	0.128	66.968627	3.560553	-526.20	-1559.19

## 2.4 Star Slots

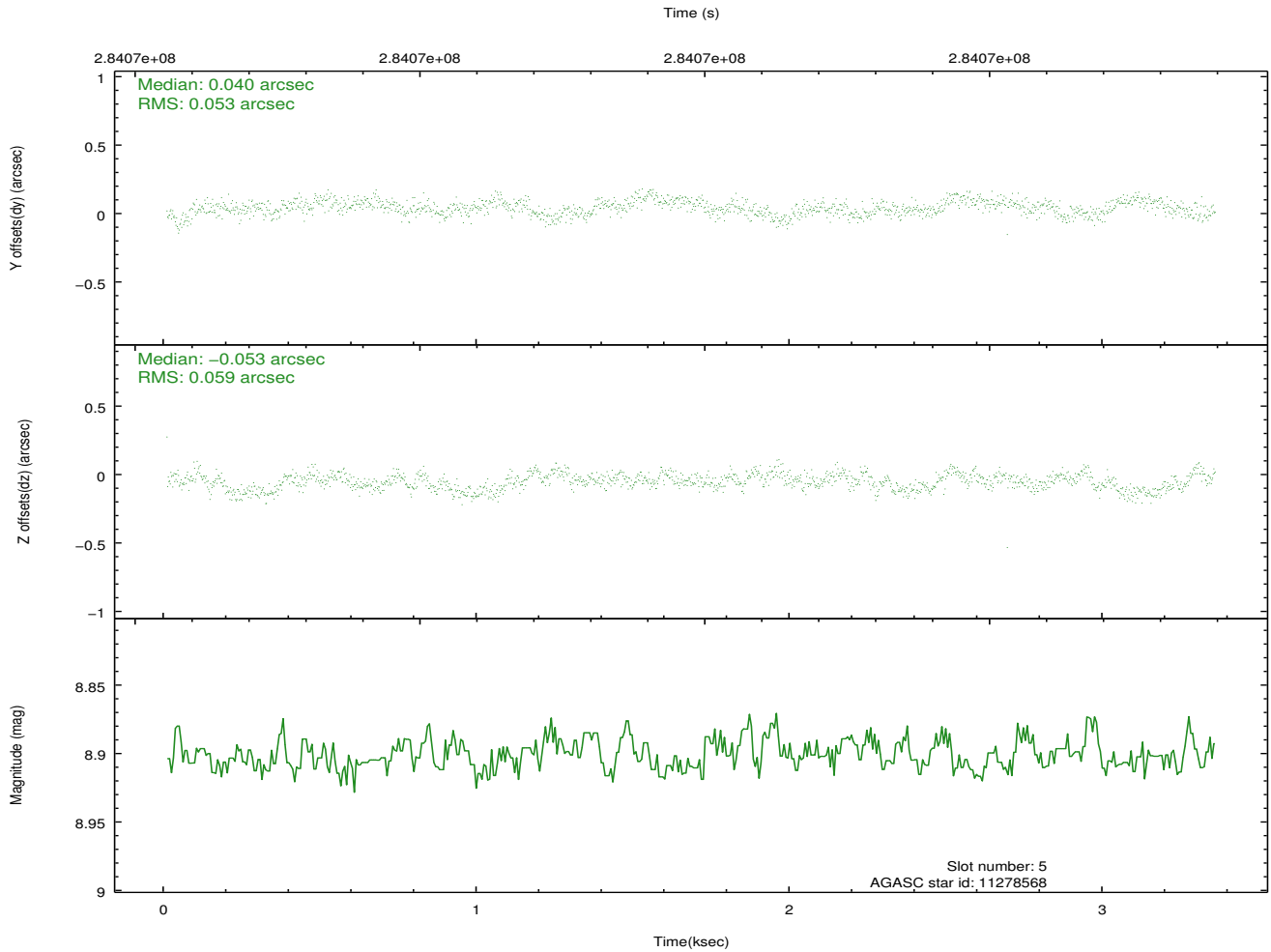
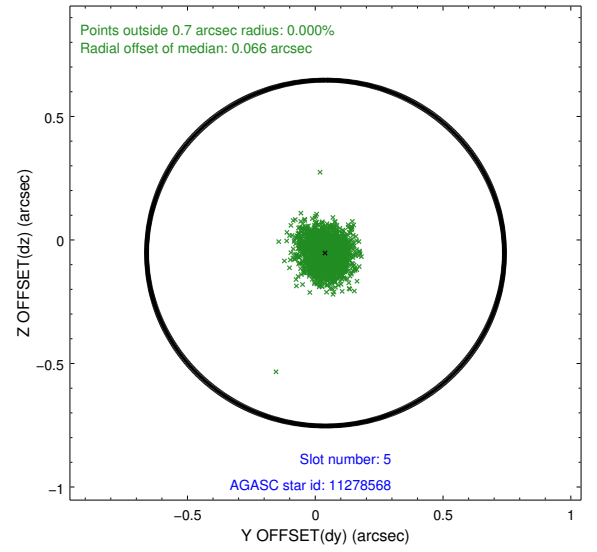
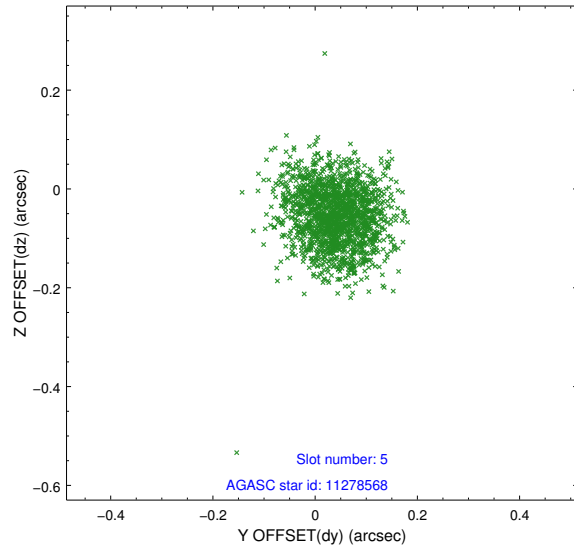
### 2.4.1 Slot 3



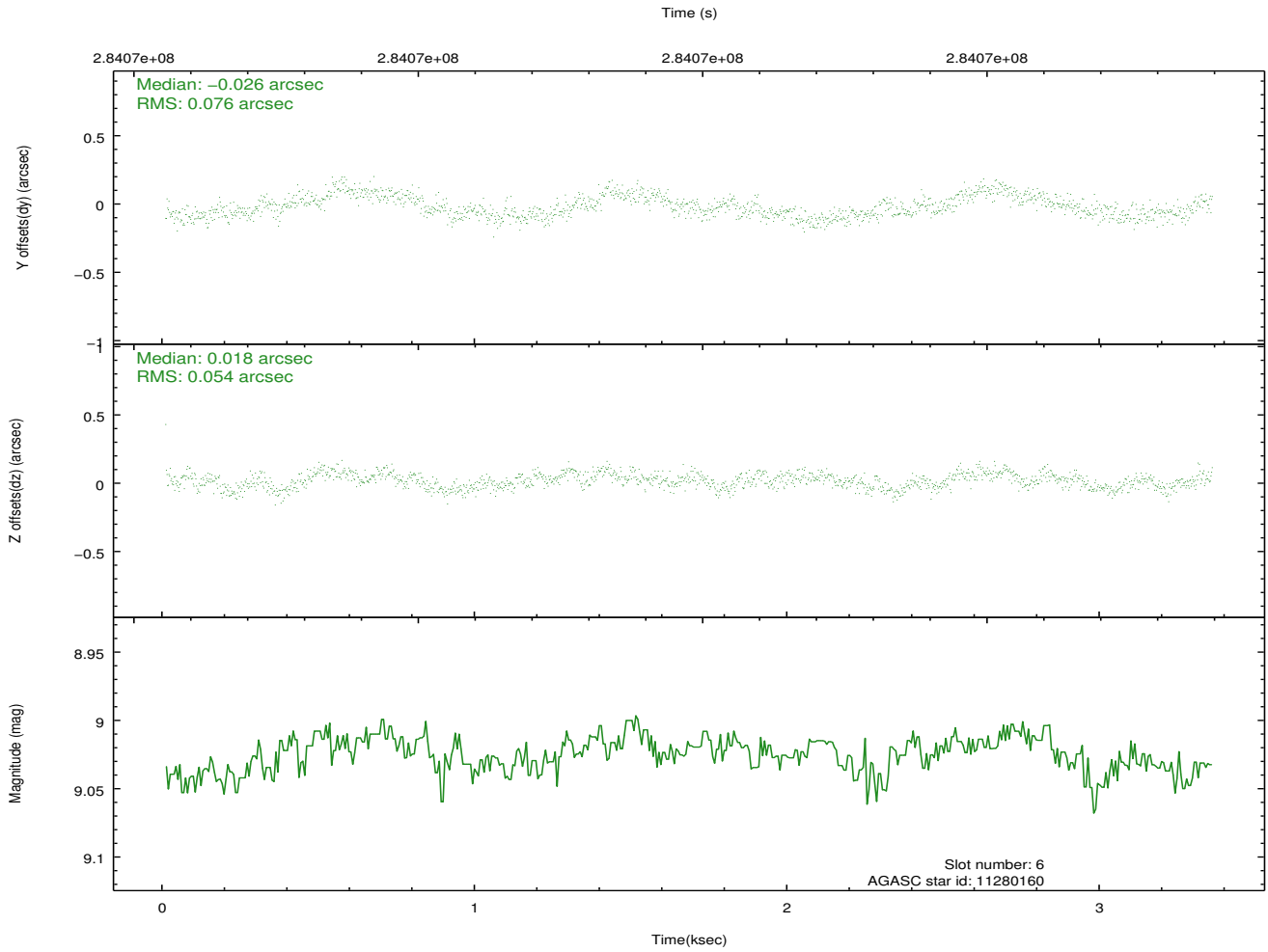
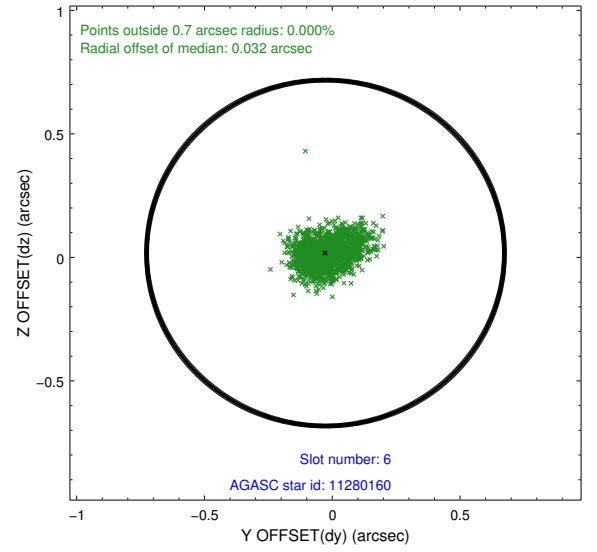
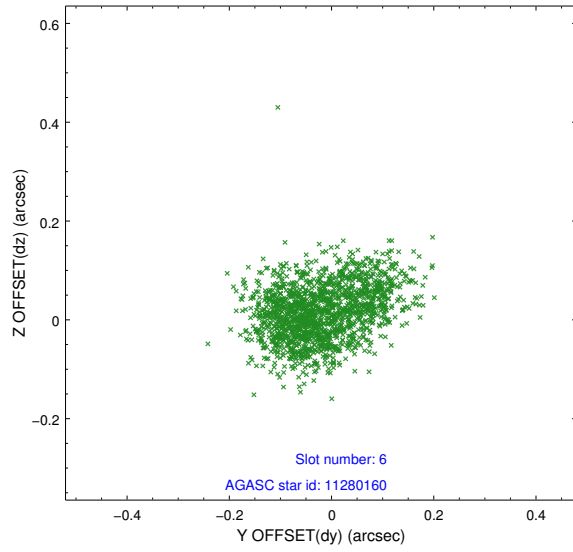
## 2.4.2 Slot 4



### 2.4.3 Slot 5

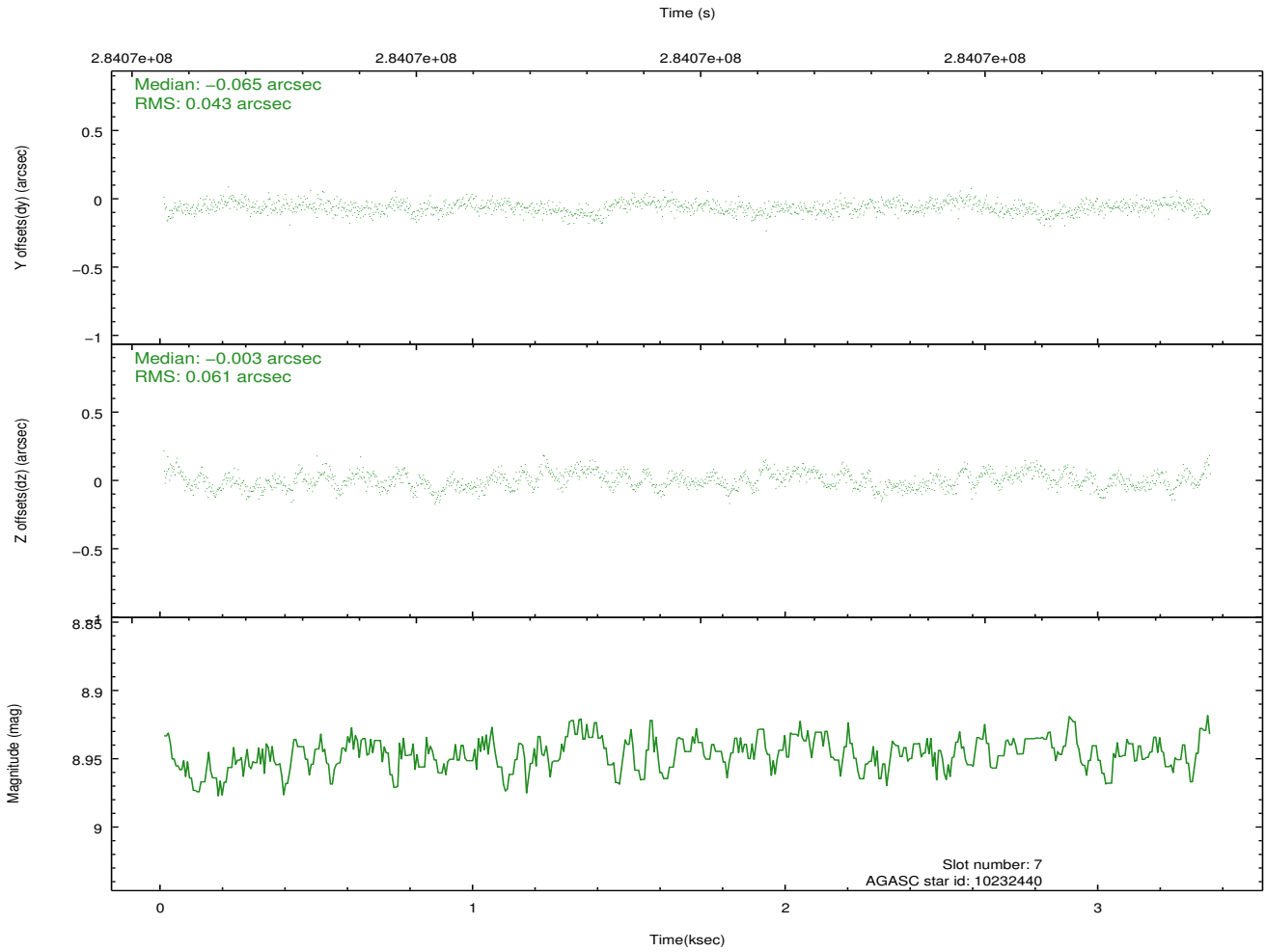
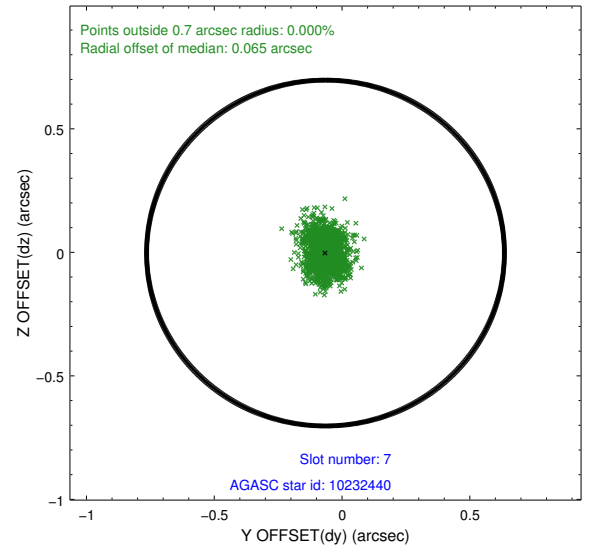
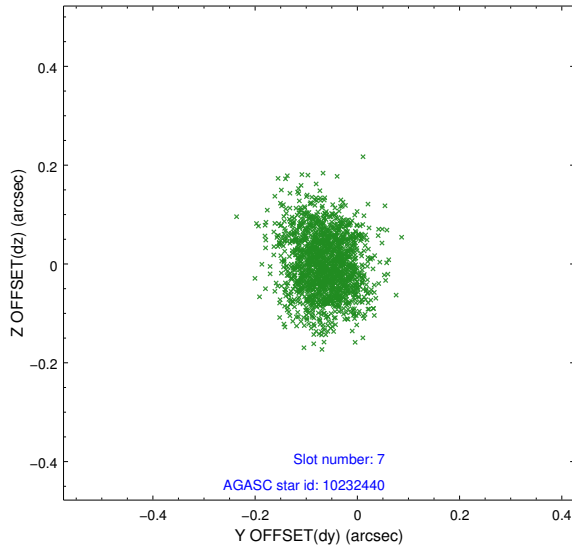


## 2.4.4 Slot 6



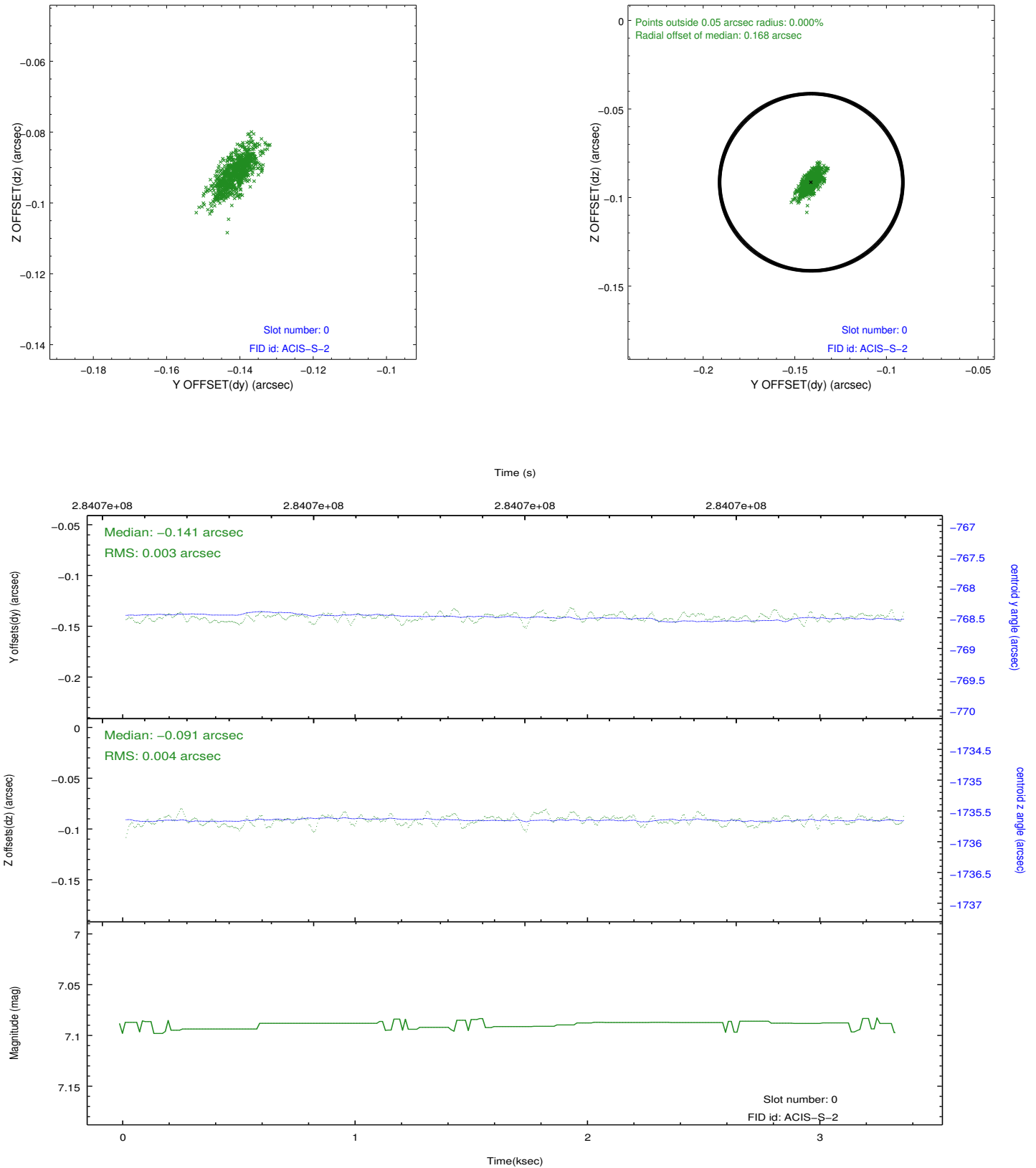


## 2.4.5 Slot 7

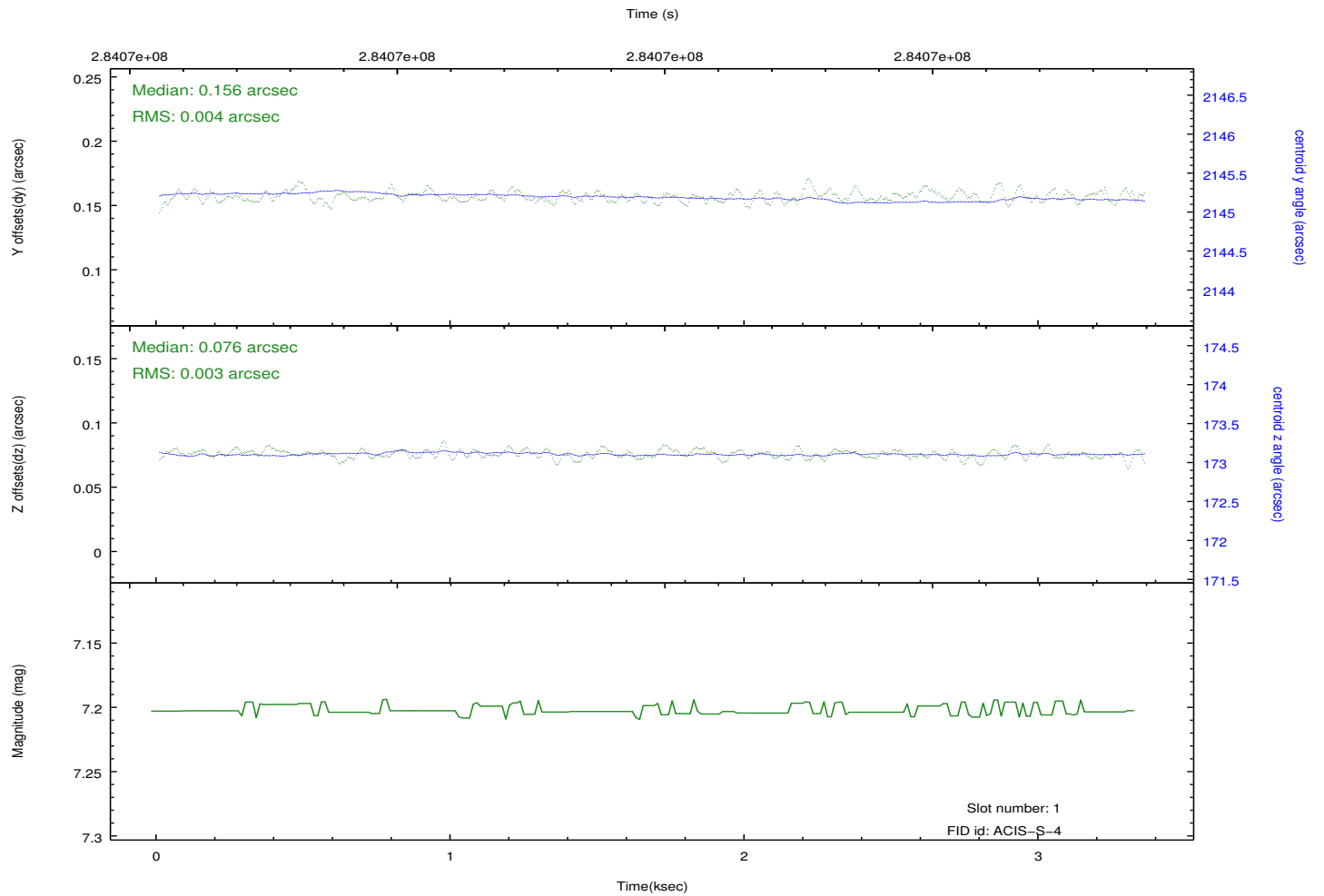
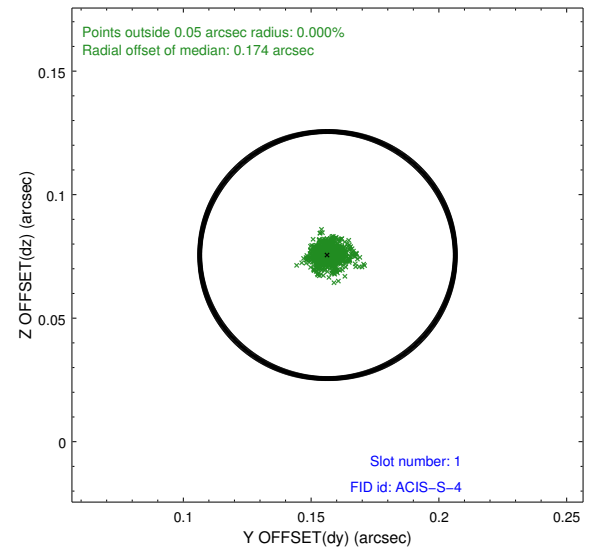
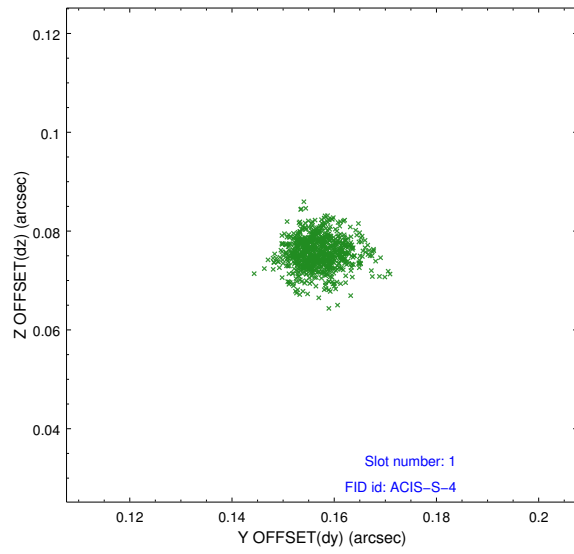


## 2.5 FID Slots

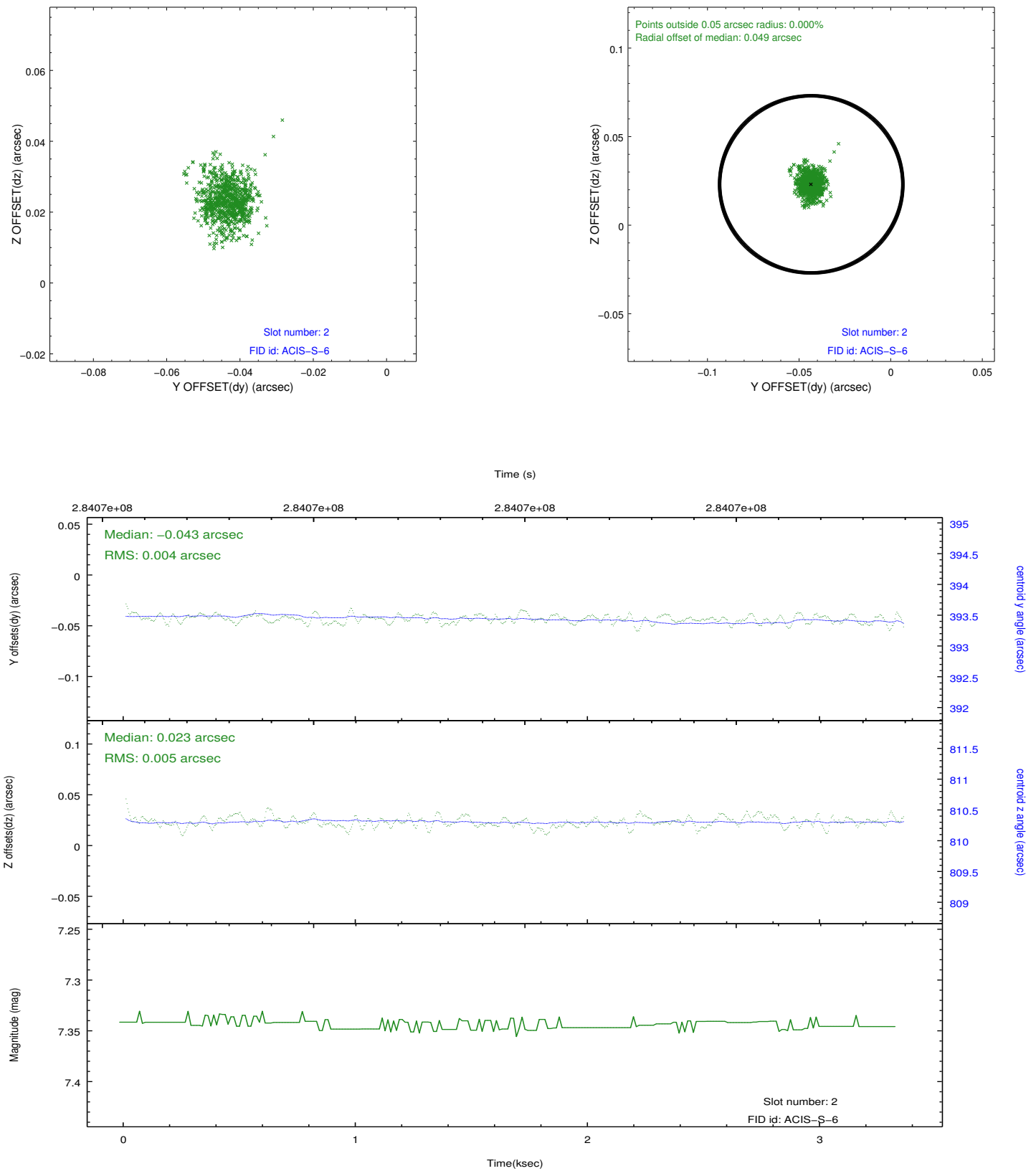
### 2.5.1 Slot 0



## 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)	2012.04.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.34399998

### A.2 Comments