

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7768 - L2 Version 3  
Chandra X-Ray Center

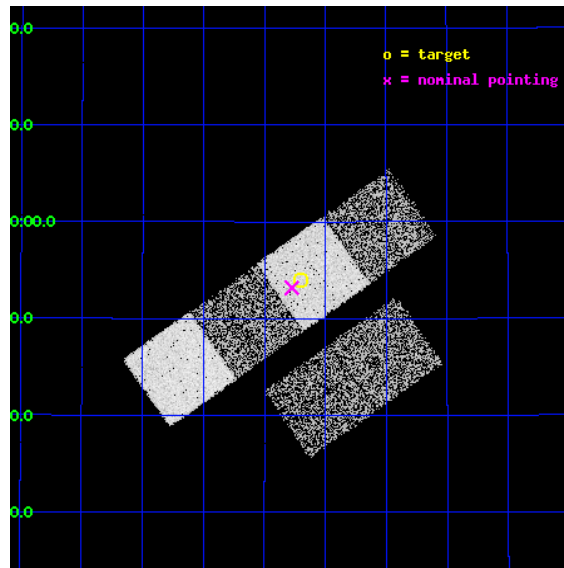
L2 Processing Date : Apr 20 2012

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# 1 Front

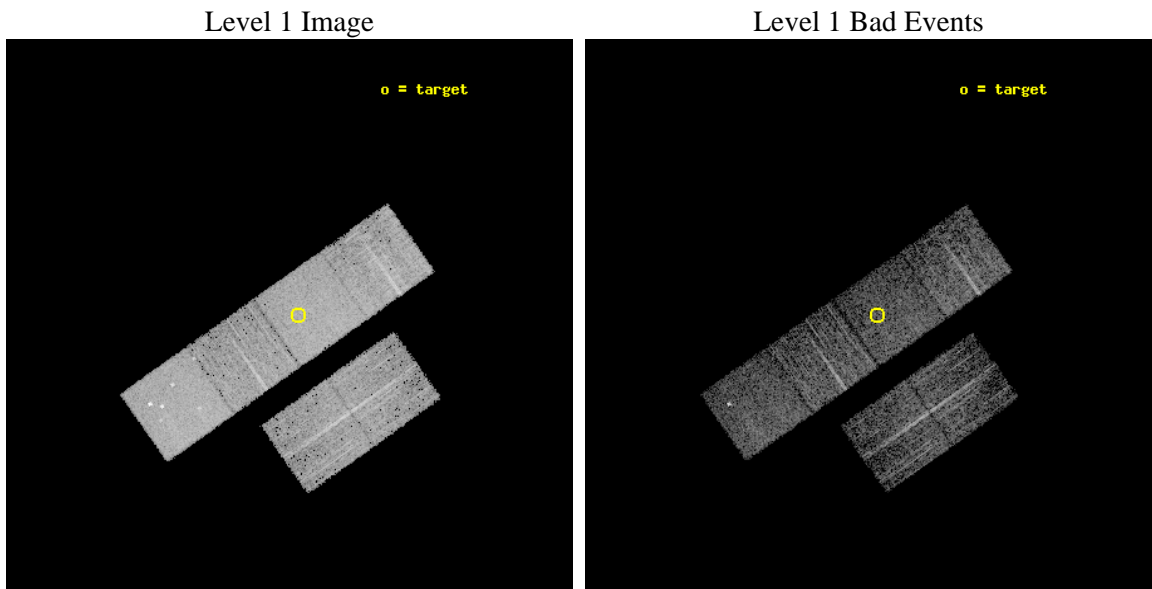
seq_num	701436	Sequence number
obs_id	7768	Observation id
title	Investigating AGN Activity in Low Surface Brightness Galaxies	Prop
observer	Dr Mousumi Das	Principal investigator
object	UGC 12845	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	358.924583	Observer's specified target RA [deg]
dec_targ	31.899722	Observer's specified target Dec [deg]
ra_nom	358.94362205329	Nominal RA [deg]
dec_nom	31.88624587936	Nominal Dec [deg]
roll_nom	324.76220289002	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3251.1999879479	Sum of GTIs [s]
livetime	3210.0313360629	Livetime [s]
ontime2	3251.1999879479	Sum of GTIs [s]
ontime3	3251.0909539461	Sum of GTIs [s]
ontime5	3251.1730339527	Sum of GTIs [s]
ontime6	3251.1319939494	Sum of GTIs [s]
ontime7	3251.1999879479	Sum of GTIs [s]
ontime8	3251.0499139428	Sum of GTIs [s]
l2events	49155	Number of level 2 events



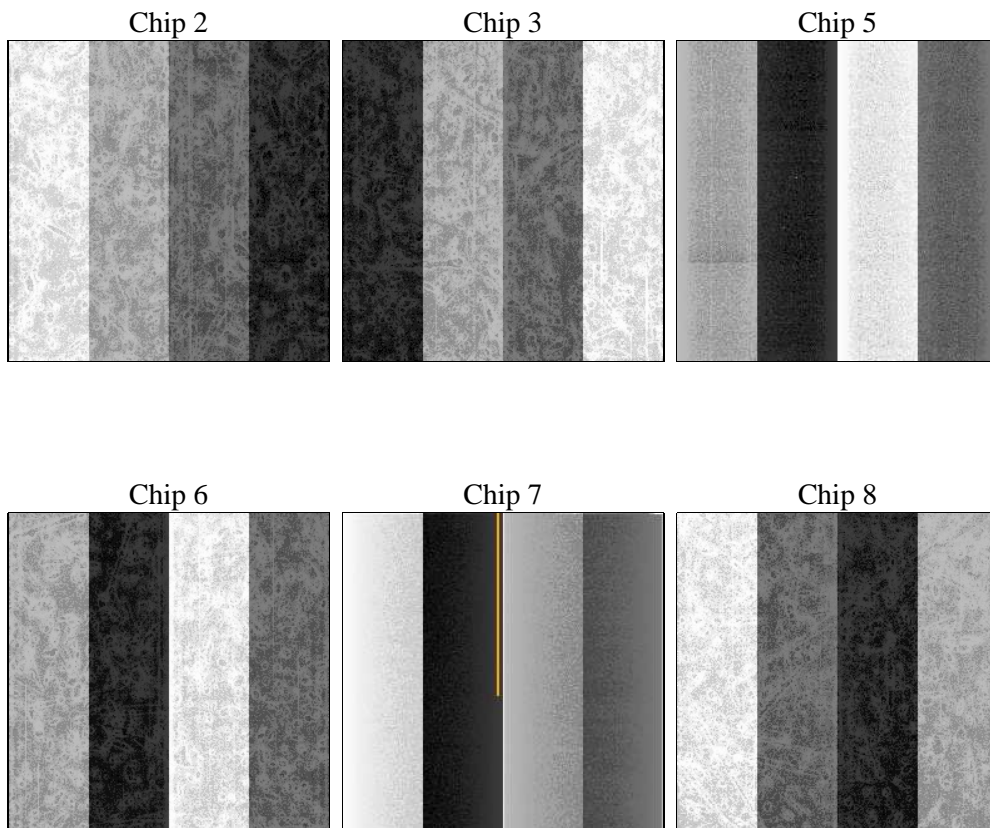
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	3251.1999879479	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	3251.1999879479	Sum of GTIs [s]
date	2012-04-20T04:24:06	Date and time of file creation	ontime3	3251.0909539461	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	3251.1730339527	Sum of GTIs [s]
			ontime6	3251.1319939494	Sum of GTIs [s]
			ontime7	3251.1999879479	Sum of GTIs [s]
			ontime8	3251.0499139428	Sum of GTIs [s]
			l1events	214356	Number of level 1 events

### 2.1.4 Events

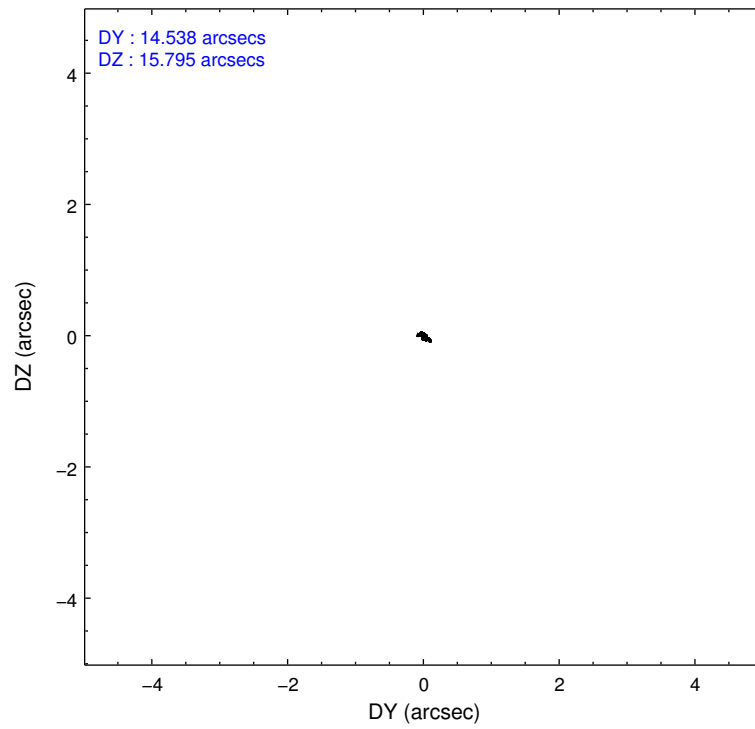
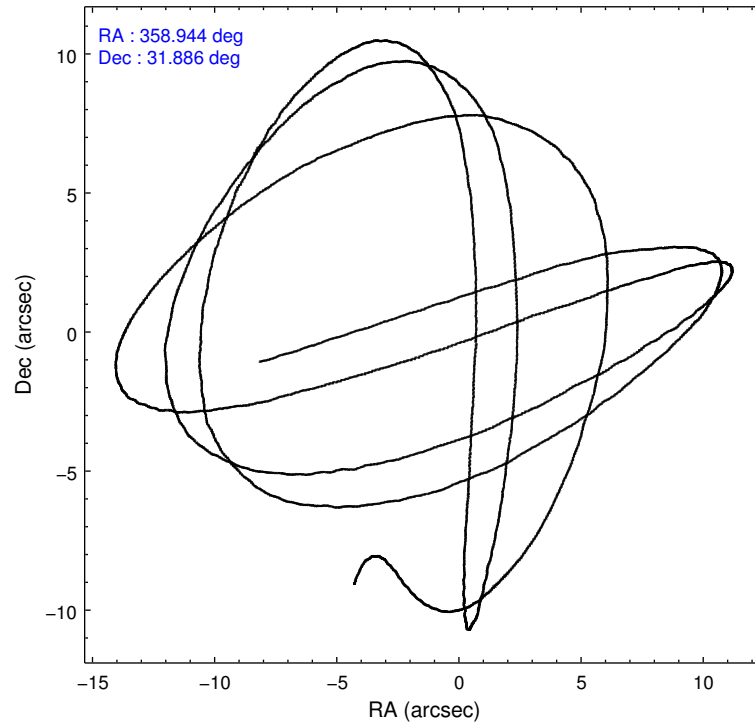
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	28845	28418	46851	30744	41003	38495	grade 0 events	1496	1557	2863	1427	1495	2510
rejected events	25405	24882	24785	27116	23972	29800		5%	5%	6%	4%	3%	6%
rejected %	88%	87%	52%	88%	58%	77%	grade 1 events	31	15	448	16	42	25
								0%	0%	0%	0%	0%	0%
							grade 2 events	736	669	6492	777	3446	2092
								2%	2%	13%	2%	8%	5%
							grade 3 events	305	352	813	382	1445	842
								1%	1%	1%	1%	3%	2%
							grade 4 events	329	325	786	317	1524	798
								1%	1%	1%	1%	3%	2%
							grade 5 events	1214	1349	3406	1439	3867	1885
								4%	4%	7%	4%	9%	4%
							grade 6 events	584	639	11169	732	9163	2465
								2%	2%	23%	2%	22%	6%
							grade 7 events	24150	23512	20874	25654	20021	27878
								83%	82%	44%	83%	48%	72%

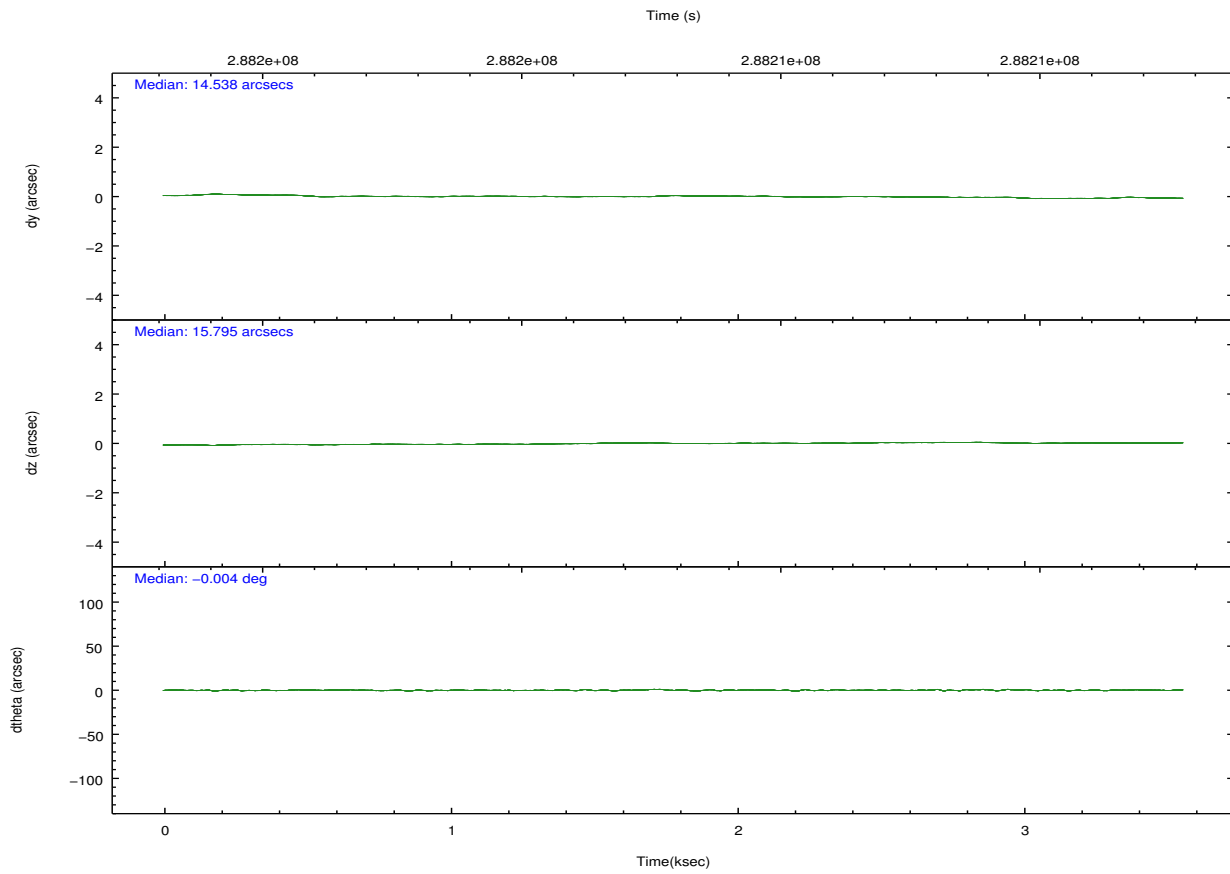
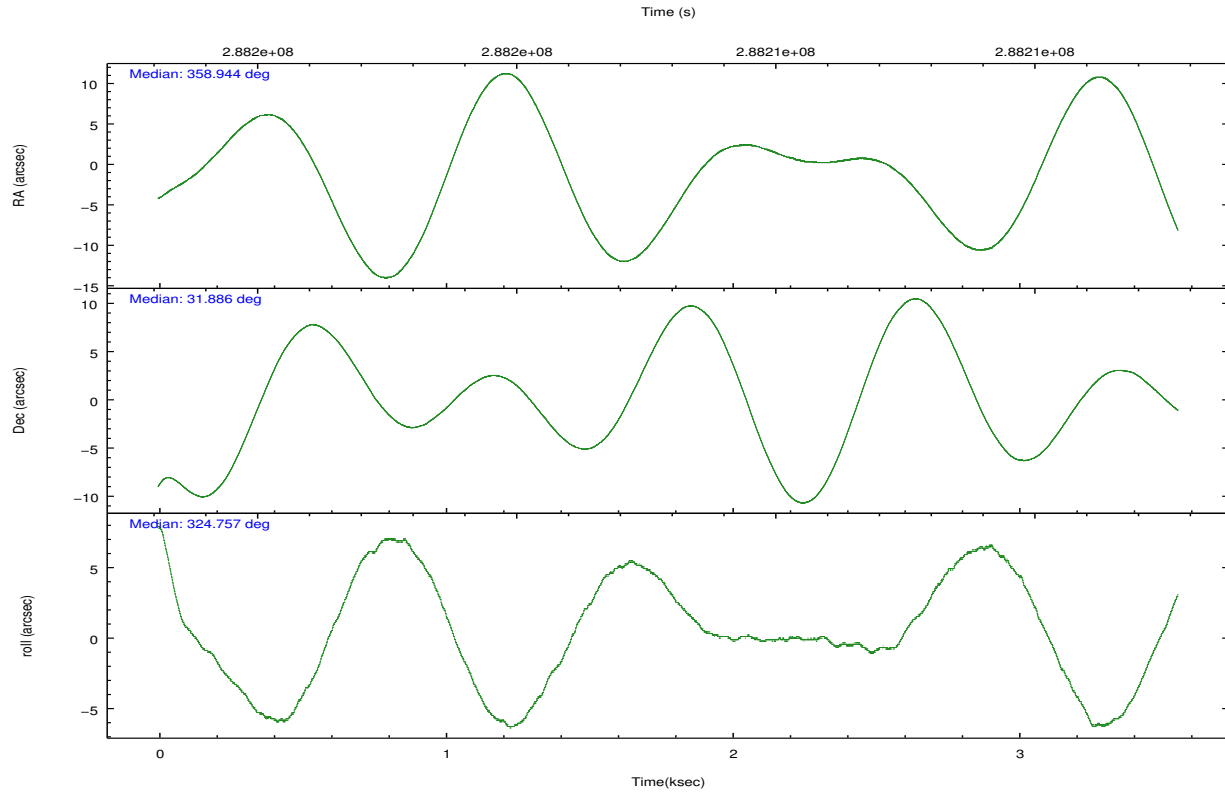


## 2.2 Compared Parameters

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	358.911337	358.9436220532873	CCD I2 on	O1	Y
[deg] Pointing Dec	31.888497	31.8862458793601	CCD I3 on	O2	Y
[deg] Pointing Roll	324.622619	324.7622028900245	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	288204059.184000	288203062.87958	CCD S5 on	N	N
Observation start date	2007-02-18T16:39:54	2007-02-18T16:24:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	288207359.184000	288208154.56732	On-chip summing requested	N	N
Observation end date	2007-02-18T17:34:54	2007-02-18T17:49:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



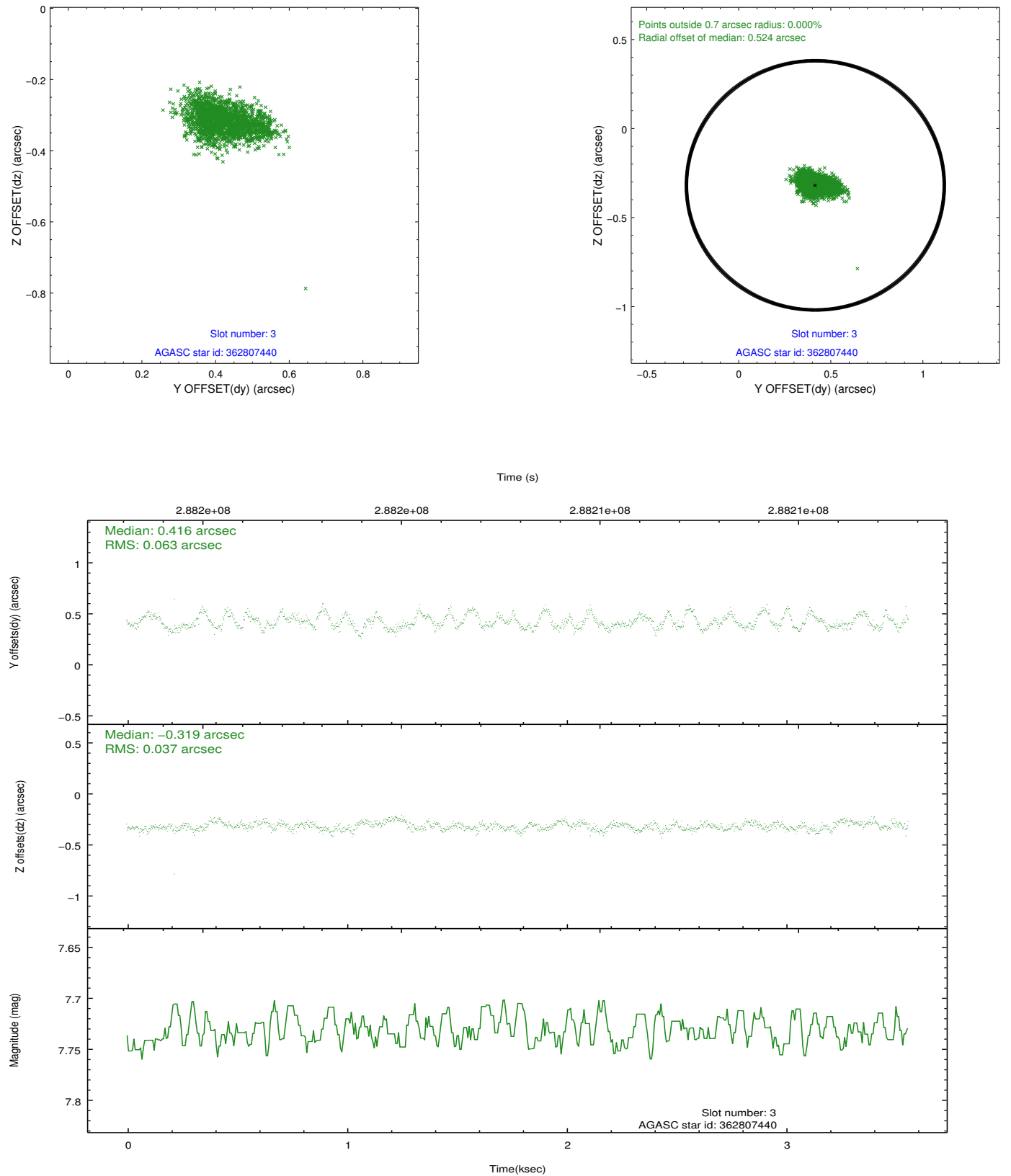


### Slot Statistics

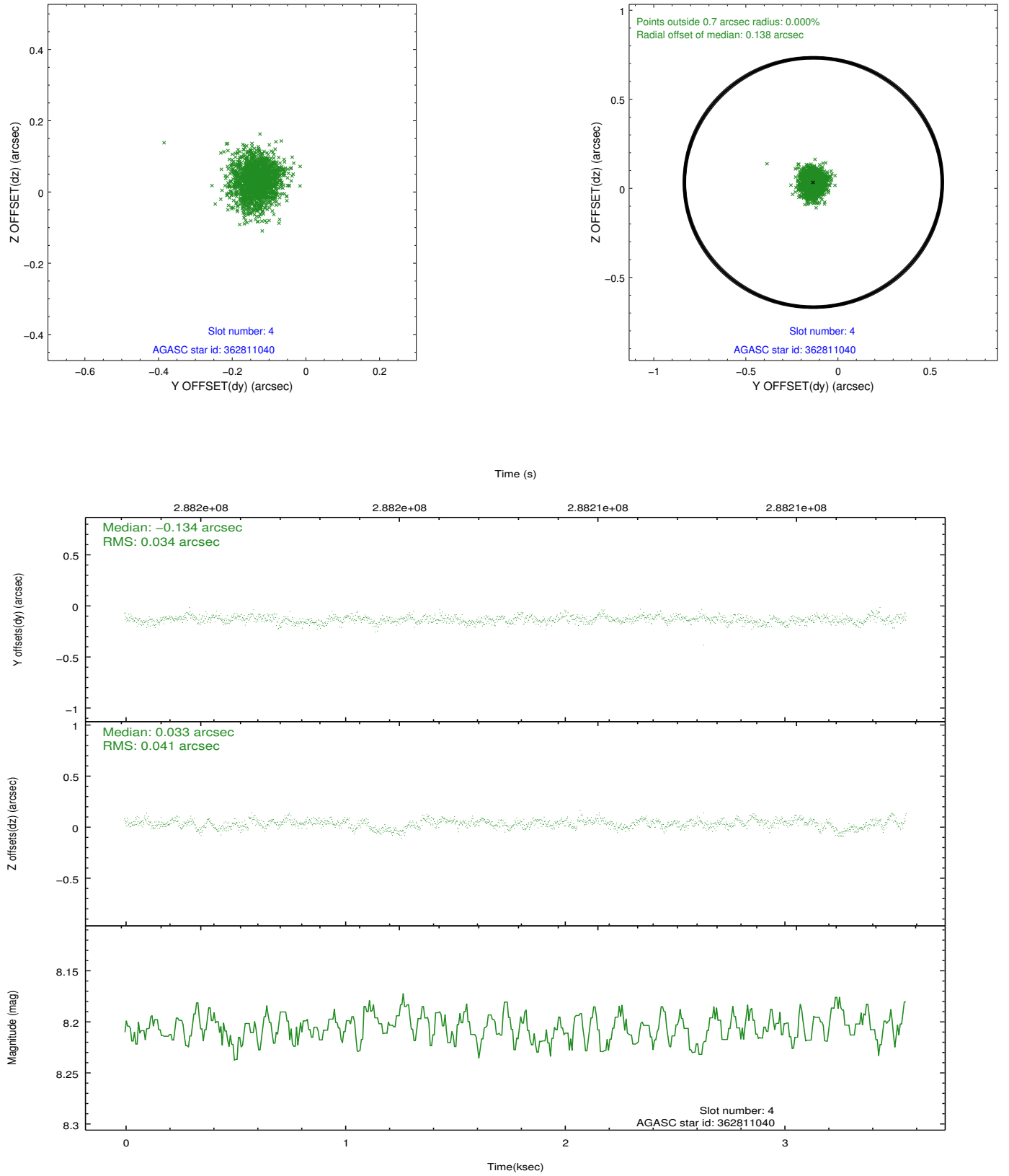
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	868	-0.084	-0.026	0.007	0.011	0.000000	0.000000	-767.57	-1737.21
1	FID	ACIS-S-4	7.19	868	0.203	0.048	0.005	0.010	0.000000	0.000000	2145.17	169.51
2	FID	ACIS-S-5	7.22	868	-0.150	-0.013	0.006	0.010	0.000000	0.000000	-1818.21	165.13
3	GUIDE	362807440	7.73	1736	0.416	-0.319	0.075	0.126	359.020029	31.077901	1962.93	-2185.19
4	GUIDE	362811040	8.21	1737	-0.134	0.033	0.056	0.091	358.686975	31.330380	601.08	-2038.09
5	GUIDE	363331672	7.58	1736	-0.178	0.057	0.057	0.091	358.295751	31.910064	-1581.93	-1022.53
6	GUIDE	363335600	9.08	1734	-0.159	0.067	0.074	0.122	358.567515	32.391234	-1902.55	871.45
7	GUIDE	363332024	8.33	1735	0.054	0.162	0.058	0.092	359.690966	31.939484	1830.16	1536.10

## 2.4 Star Slots

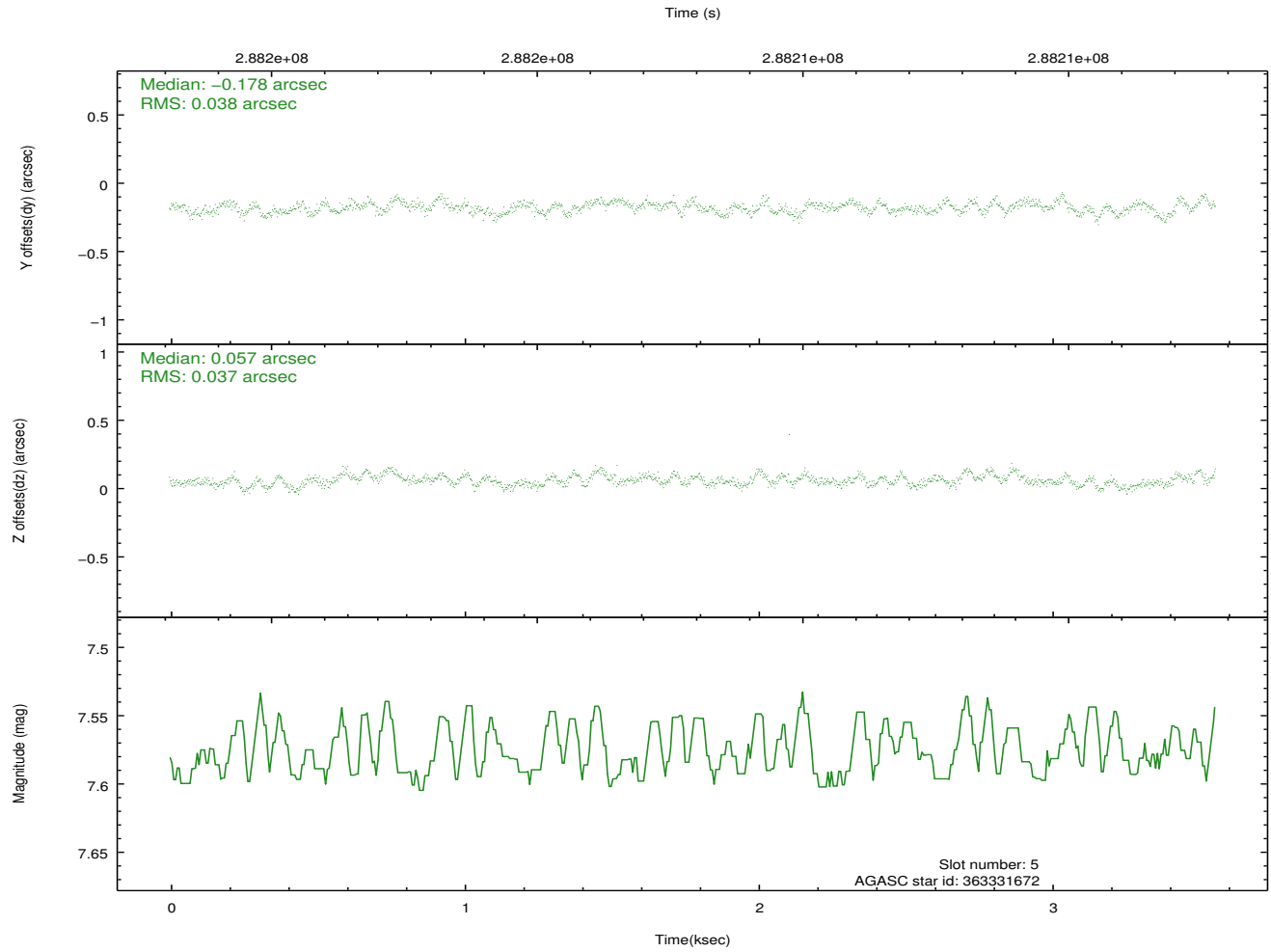
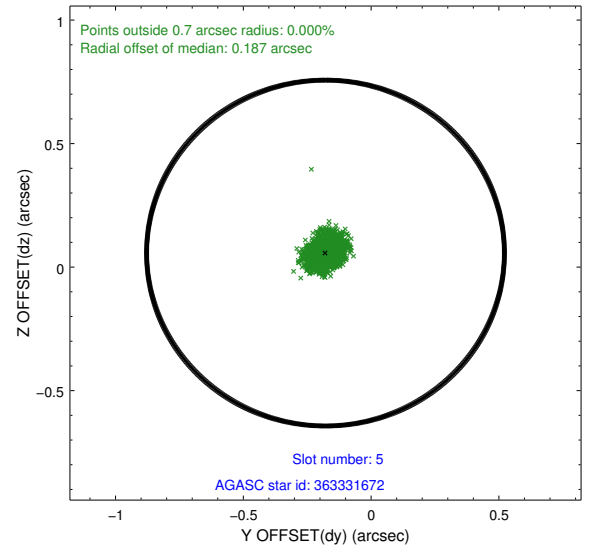
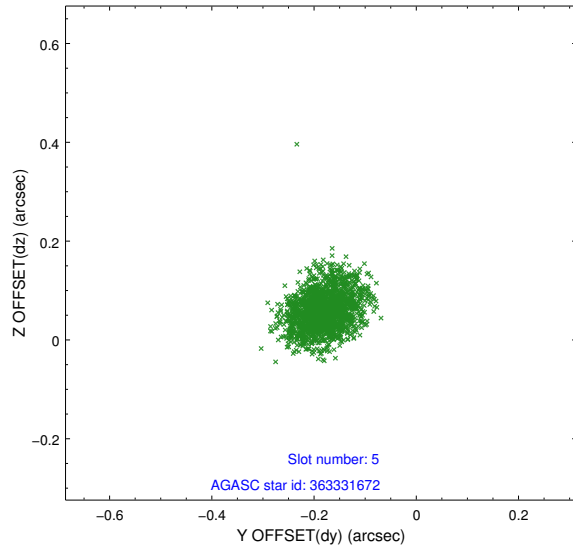
### 2.4.1 Slot 3



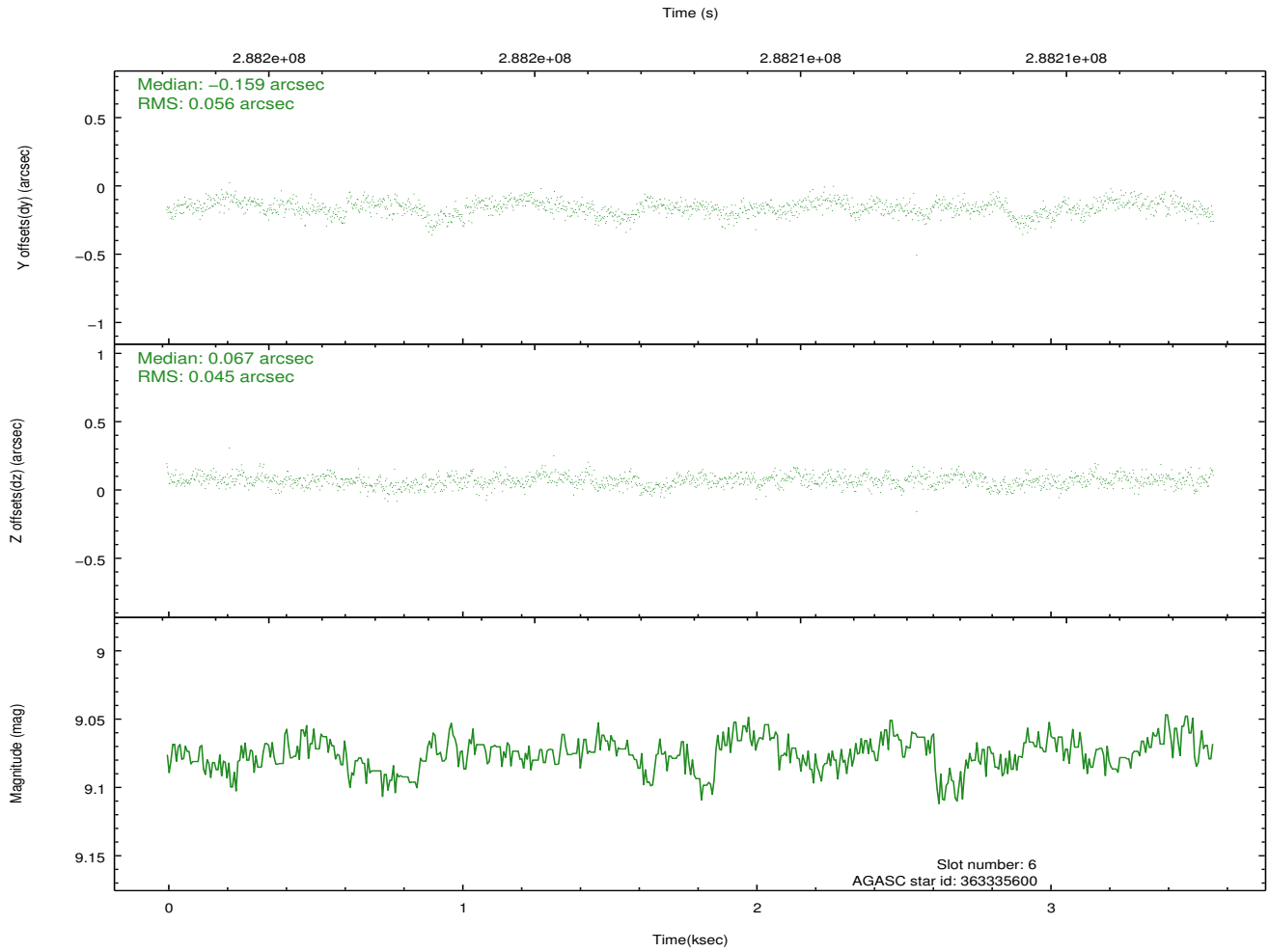
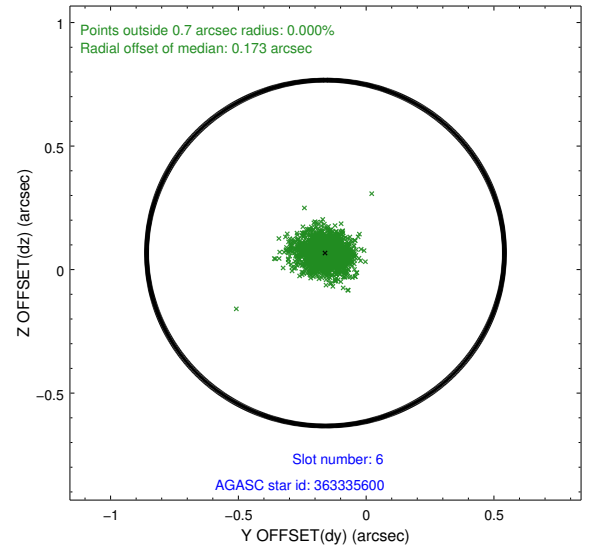
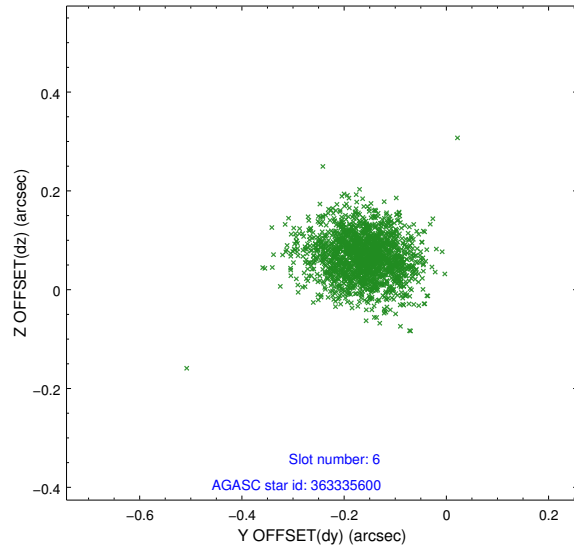
## 2.4.2 Slot 4



### 2.4.3 Slot 5

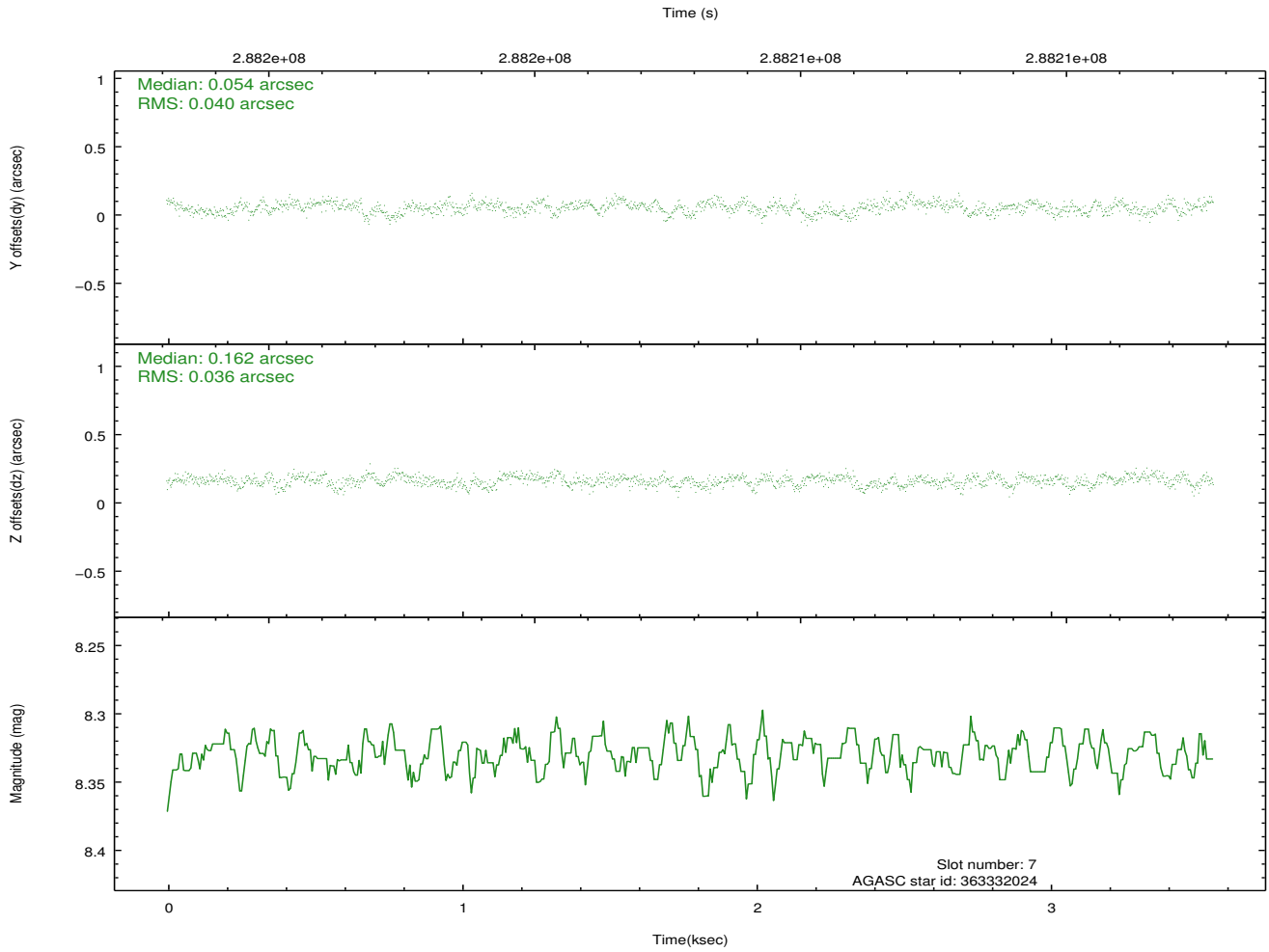
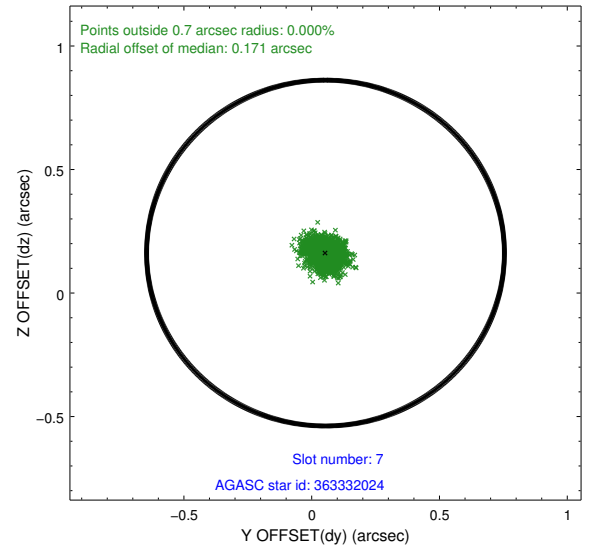
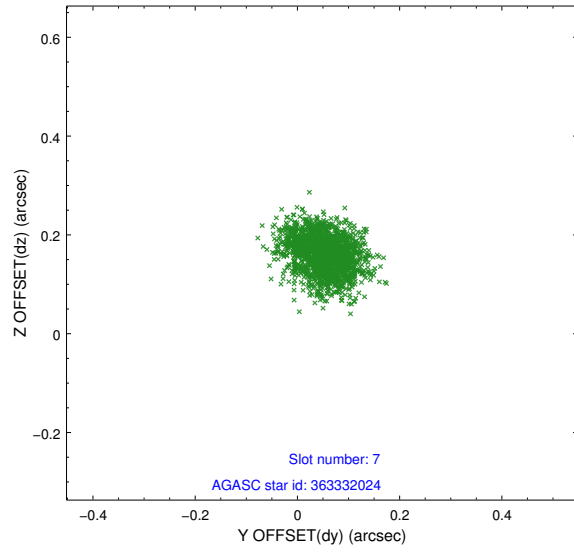


## 2.4.4 Slot 6



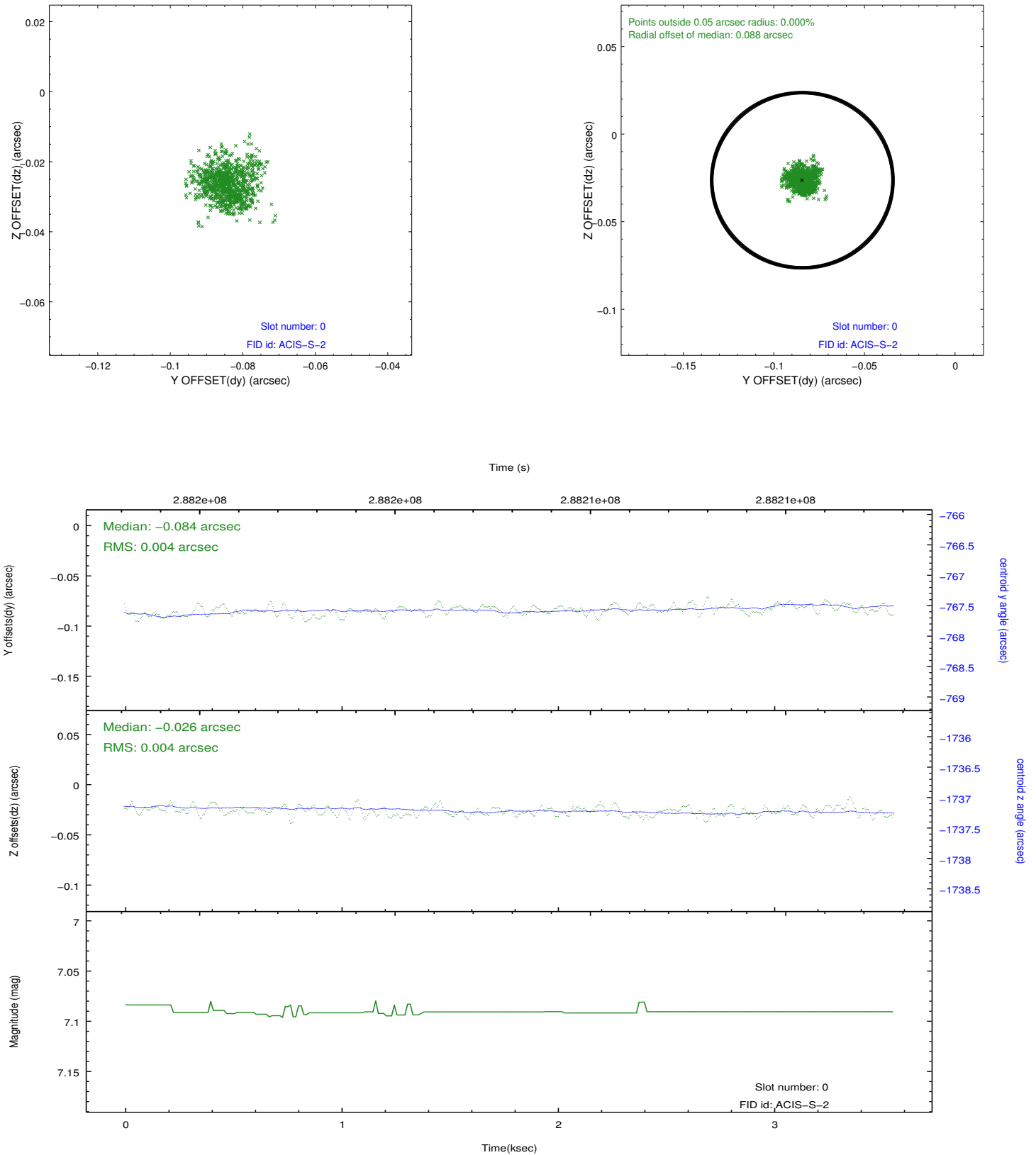


## 2.4.5 Slot 7

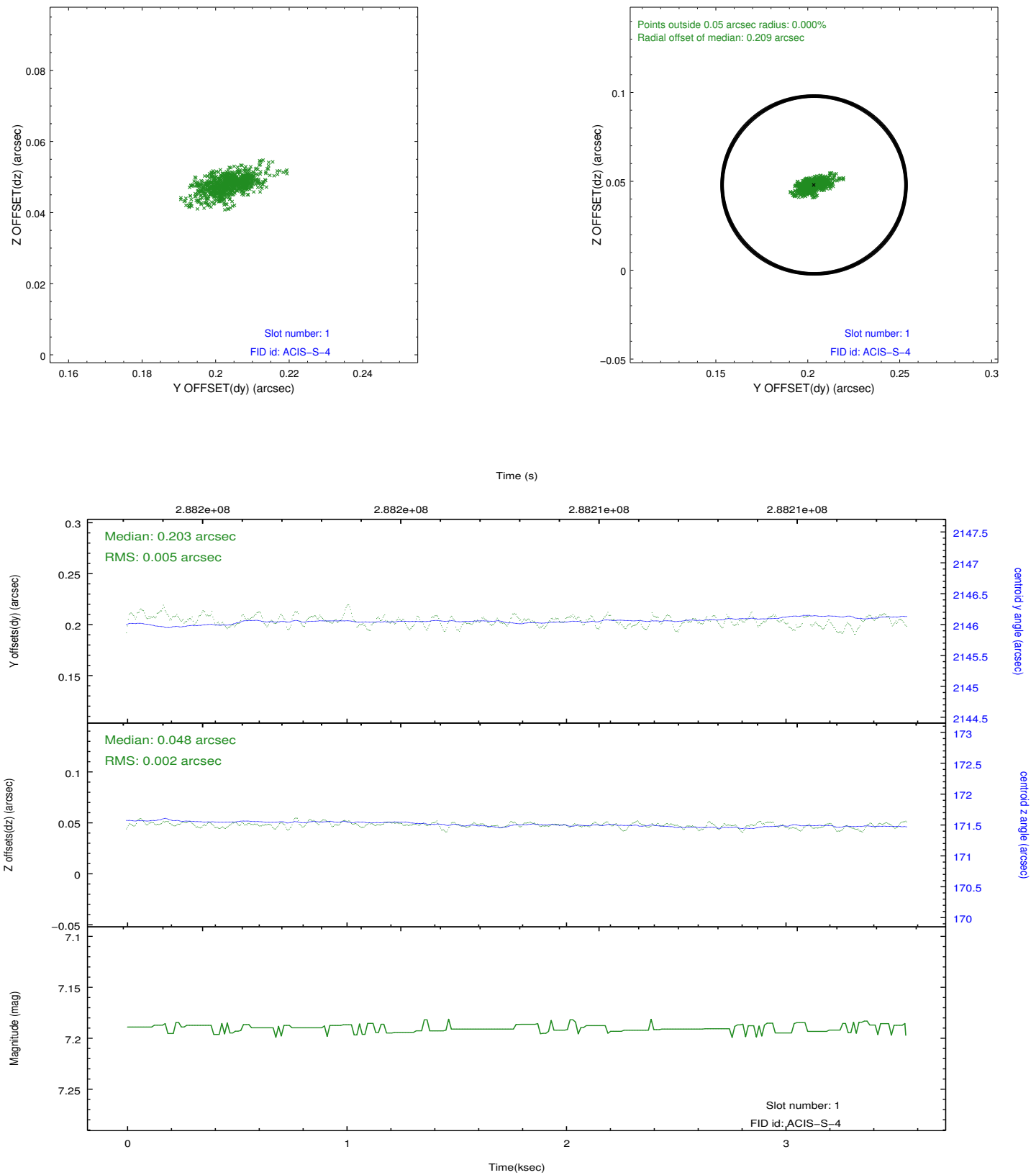


## 2.5 FID Slots

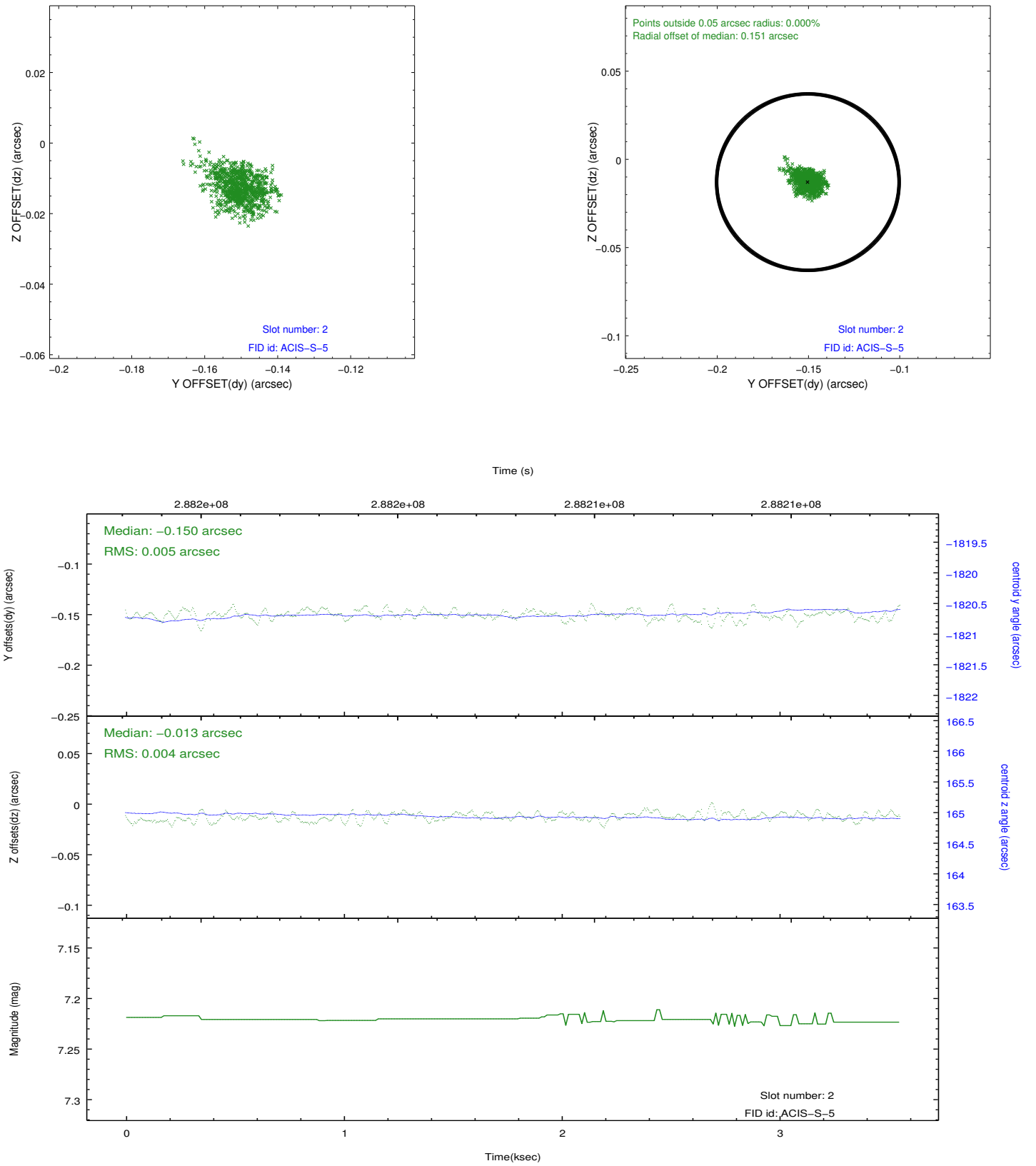
### 2.5.1 Slot 0



## 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)	2012.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.25119998

### A.2 Comments