

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 12396 - L2 Version 1  
Chandra X-Ray Center

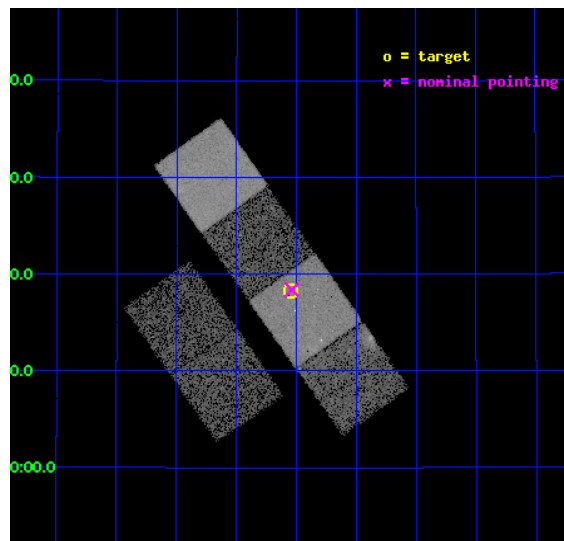
L2 Processing Date : Jan 18 2012

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# 1 Front

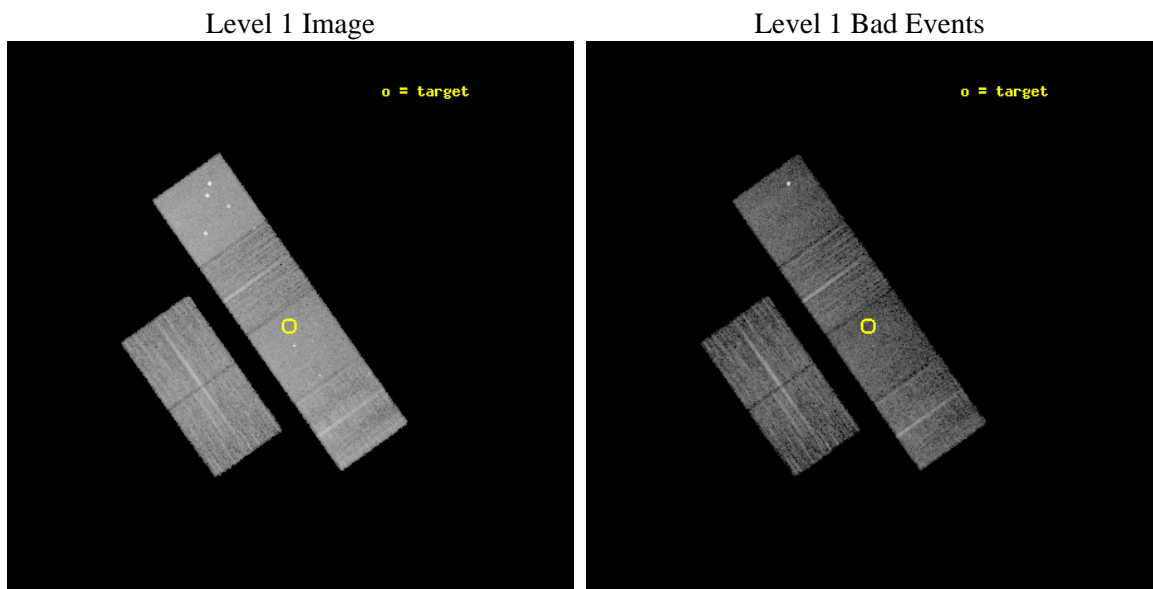
seq_num	200730	Sequence number
obs_id	12396	Observation id
title	Magnetically Sleepy Stars: An X-ray Survey of Candidate Stars in Extended Magnetic Minima	Proposal title
observer	Dr. Steven Saar	Principal investigator
object	HD 143761	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	240.260833	Observer's specified target RA [deg]
dec_targ	33.3035	Observer's specified target Dec [deg]
ra_nom	240.25943943123	Nominal RA [deg]
dec_nom	33.306288503073	Nominal Dec [deg]
roll_nom	54.736523478517	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9961.5999629498	Sum of GTIs [s]
livetime	9835.4601860635	Livetime [s]
ontime2	9961.5999629498	Sum of GTIs [s]
ontime3	9961.5999629498	Sum of GTIs [s]
ontime5	9961.5999629498	Sum of GTIs [s]
ontime6	9961.5999629498	Sum of GTIs [s]
ontime7	9961.5999629498	Sum of GTIs [s]
ontime8	9961.5884463787	Sum of GTIs [s]
l2events	111309	Number of level 2 events



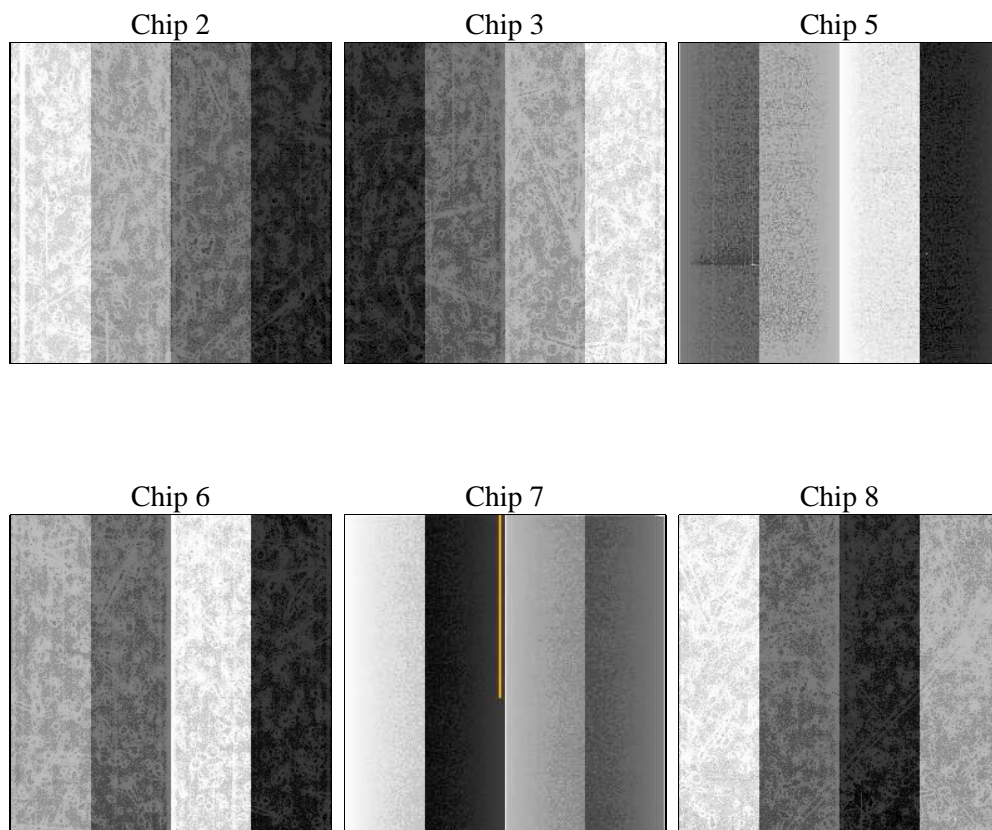
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	9961.5999629498	Sum of GTIs [s]
caldbver	4.4.7	&#160	ontime2	9961.5999629498	Sum of GTIs [s]
date	2012-01-18T04:09:08	Date and time of file creation	ontime3	9961.5999629498	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	9961.5999629498	Sum of GTIs [s]
			ontime6	9961.5999629498	Sum of GTIs [s]
			ontime7	9961.5999629498	Sum of GTIs [s]
			ontime8	9961.5884463787	Sum of GTIs [s]
			l1events	461612	Number of level 1 events

### 2.1.4 Events

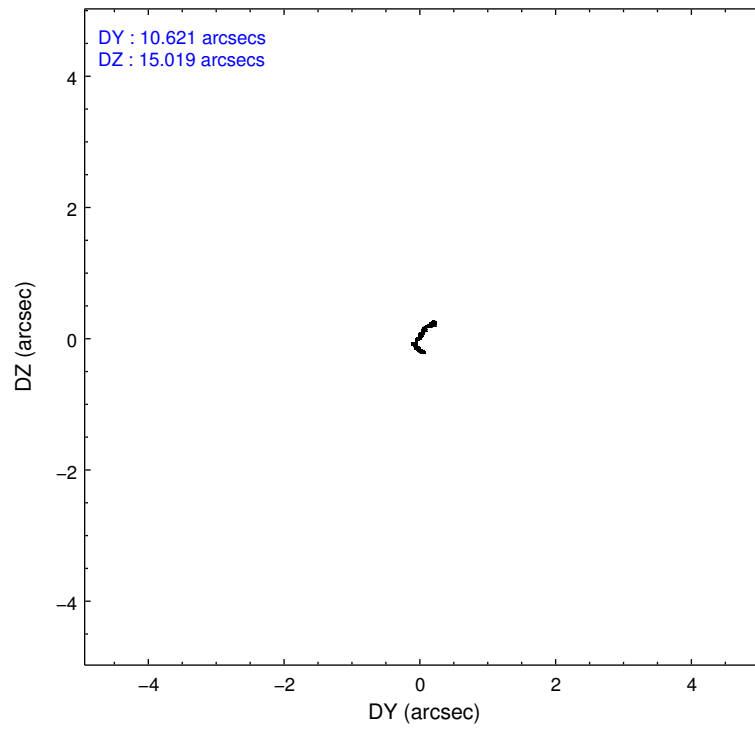
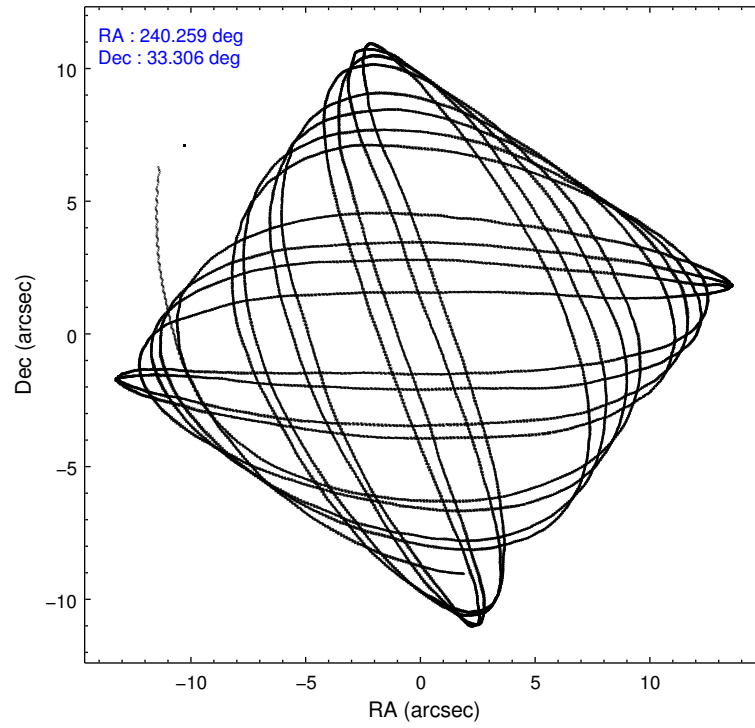
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	64298	60761	105827	64073	83383	83270	grade 0 events	2271	2313	8627	2641	4249	8285
rejected events	57462	54193	51994	56608	44718	58484		3%	3%	8%	4%	5%	9%
rejected %	89%	89%	49%	88%	53%	70%	grade 1 events	54	30	522	34	105	59
								0%	0%	0%	0%	0%	0%
							grade 2 events	1743	1504	15326	1663	8116	5373
								2%	2%	14%	2%	9%	6%
							grade 3 events	700	676	2050	795	3491	2629
								1%	1%	1%	1%	4%	3%
							grade 4 events	764	704	1879	781	3430	2462
								1%	1%	1%	1%	4%	2%
							grade 5 events	2589	2967	8735	3098	8597	4504
								4%	4%	8%	4%	10%	5%
							grade 6 events	1360	1373	25971	1586	19394	6045
								2%	2%	24%	2%	23%	7%
							grade 7 events	54817	51194	42717	53475	36001	53913
								85%	84%	40%	83%	43%	64%

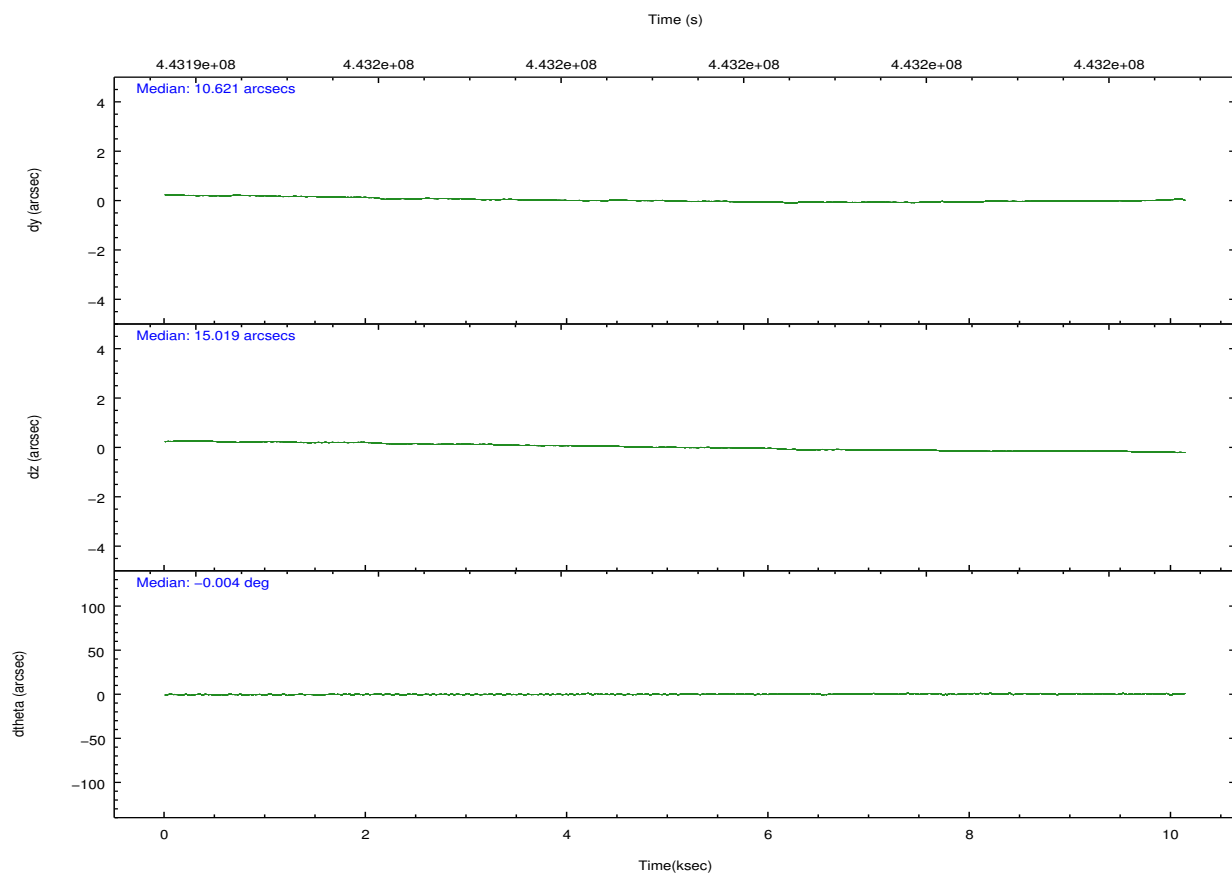
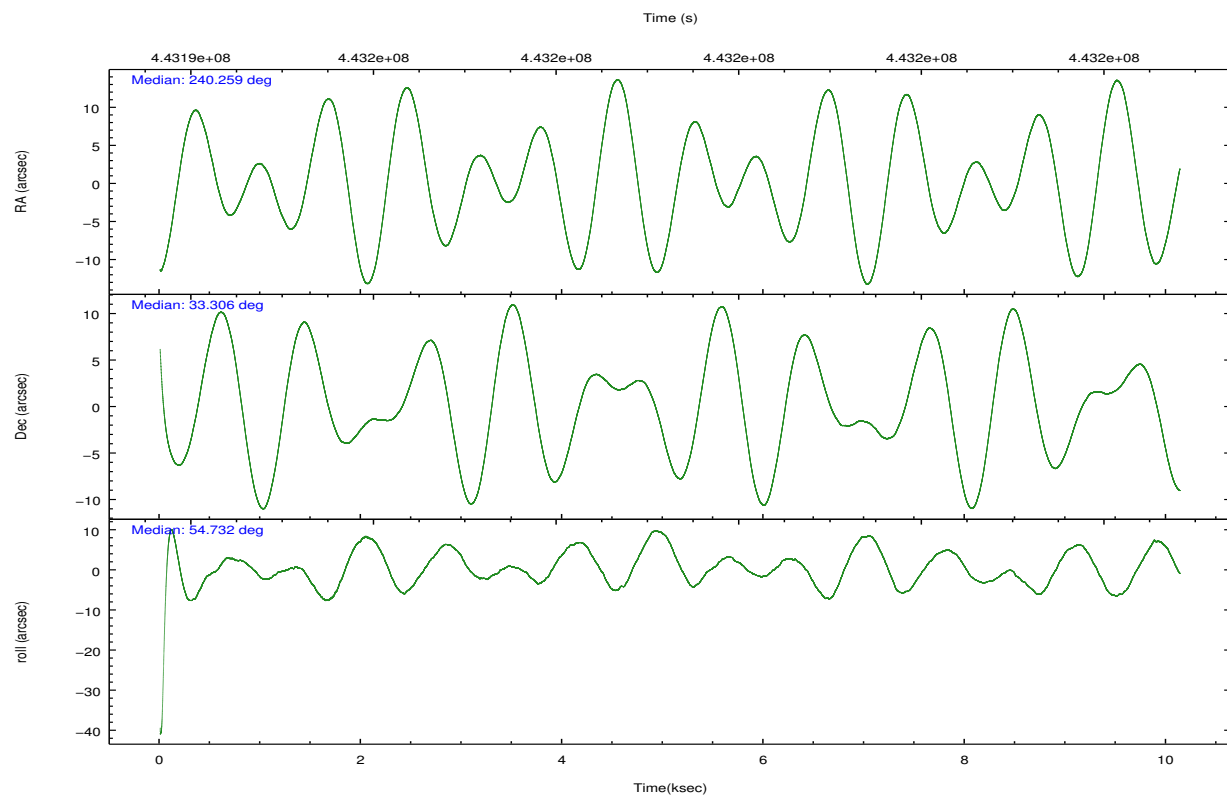


## 2.2 Compared Parameters

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	240.256913	240.2594394312285	CCD I2 on	O2	Y
[deg] Pointing Dec	33.279043	33.30628850307289	CCD I3 on	O3	Y
[deg] Pointing Roll	54.581357	54.73652347851659	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O5	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	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	O4	Y
[s] Observation start time (MET)	443194321.184000	443193115.85891	CCD S5 on	N	N
Observation start date	2012-01-17T13:30:55	2012-01-17T13:11:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	443204321.184000	443204596.88451	On-chip summing requested	N	N
Observation end date	2012-01-17T16:17:35	2012-01-17T16:23:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



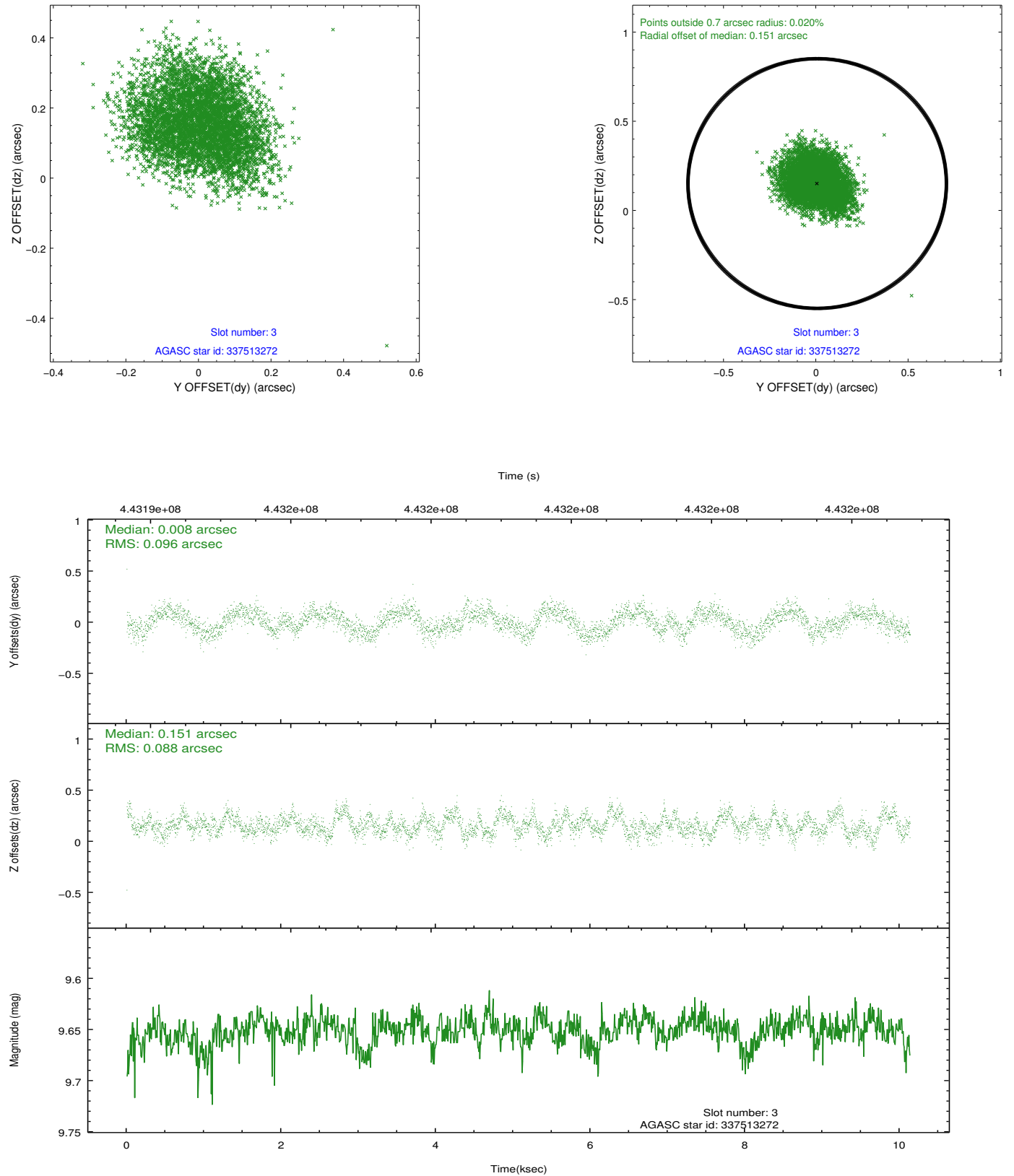


### Slot Statistics

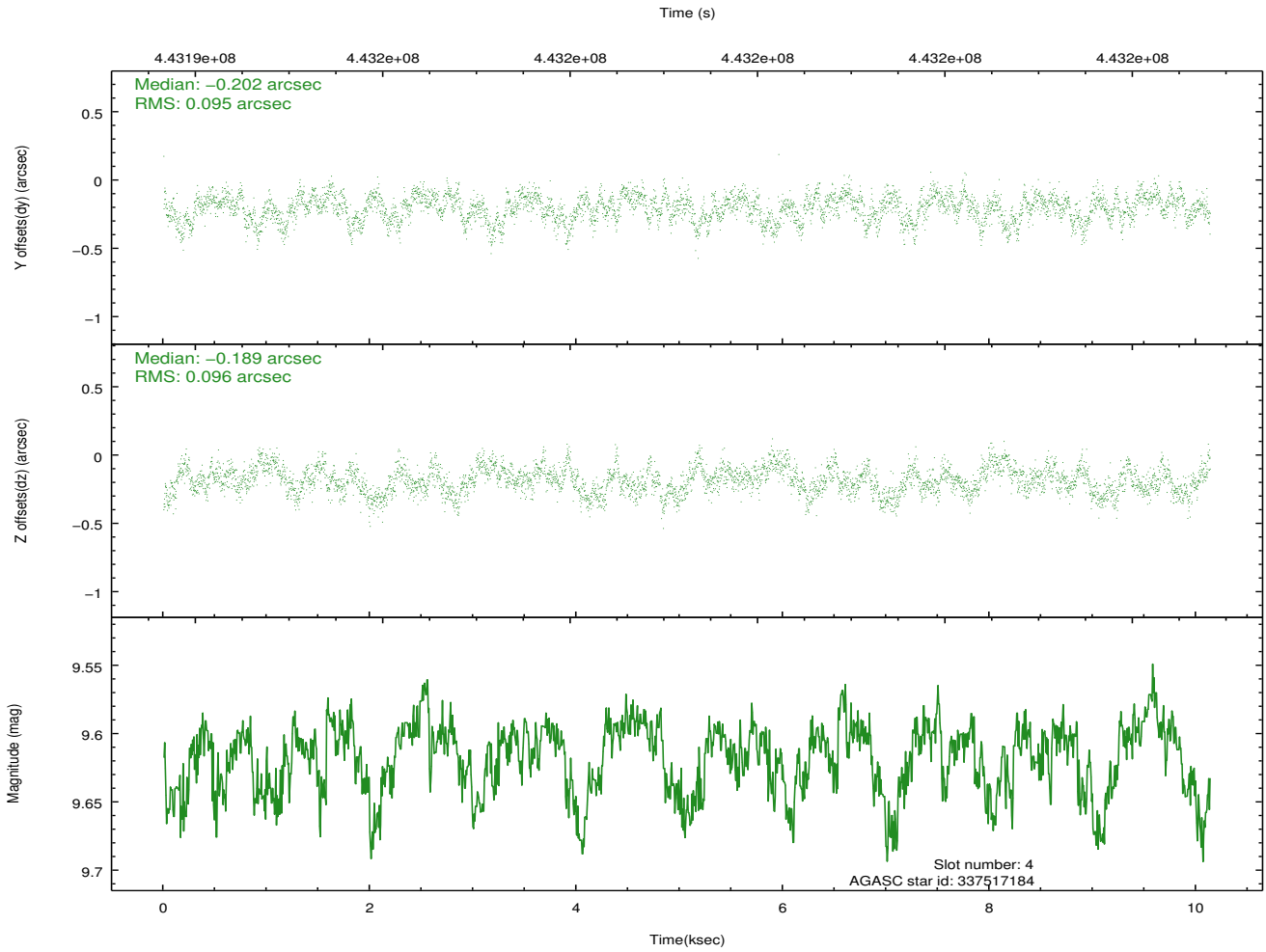
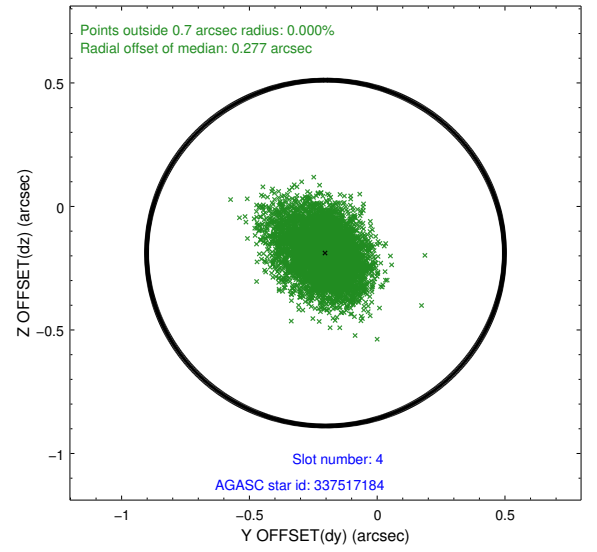
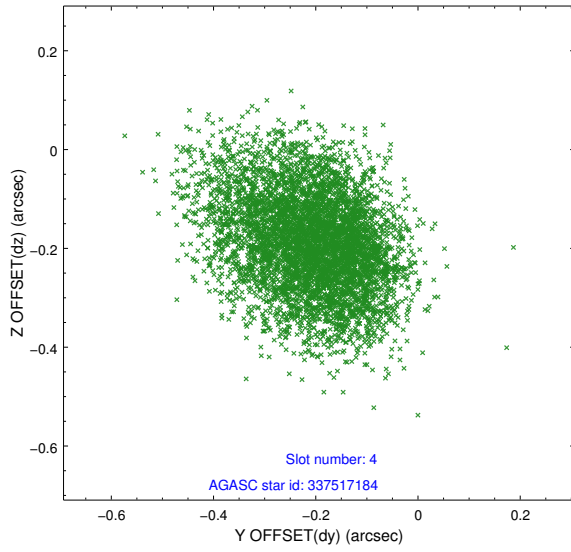
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	2472	-0.061	-0.006	0.007	0.012	0.000000	0.000000	-763.56	-1736.42
1	FID	ACIS-S-4	6.99	2472	0.172	0.031	0.006	0.011	0.000000	0.000000	2149.71	171.55
2	FID	ACIS-S-5	7.02	2472	-0.142	-0.017	0.007	0.012	0.000000	0.000000	-1815.81	165.78
3	GUIDE	337513272	9.65	4942	0.008	0.151	0.140	0.216	239.535335	33.028793	-1990.04	1256.99
4	GUIDE	337517184	9.61	4938	-0.202	-0.189	0.143	0.230	239.935742	33.768007	878.27	1804.36
5	GUIDE	337648536	10.11	4937	0.013	0.010	0.195	0.328	241.265527	33.447435	2262.01	-2106.93
6	GUIDE	337651760	10.16	4938	0.219	0.300	0.187	0.306	240.337975	32.933893	-869.49	-919.98
7	GUIDE	337523264	9.61	4935	-0.033	-0.258	0.138	0.219	239.618548	33.610884	-130.94	2255.19

## 2.4 Star Slots

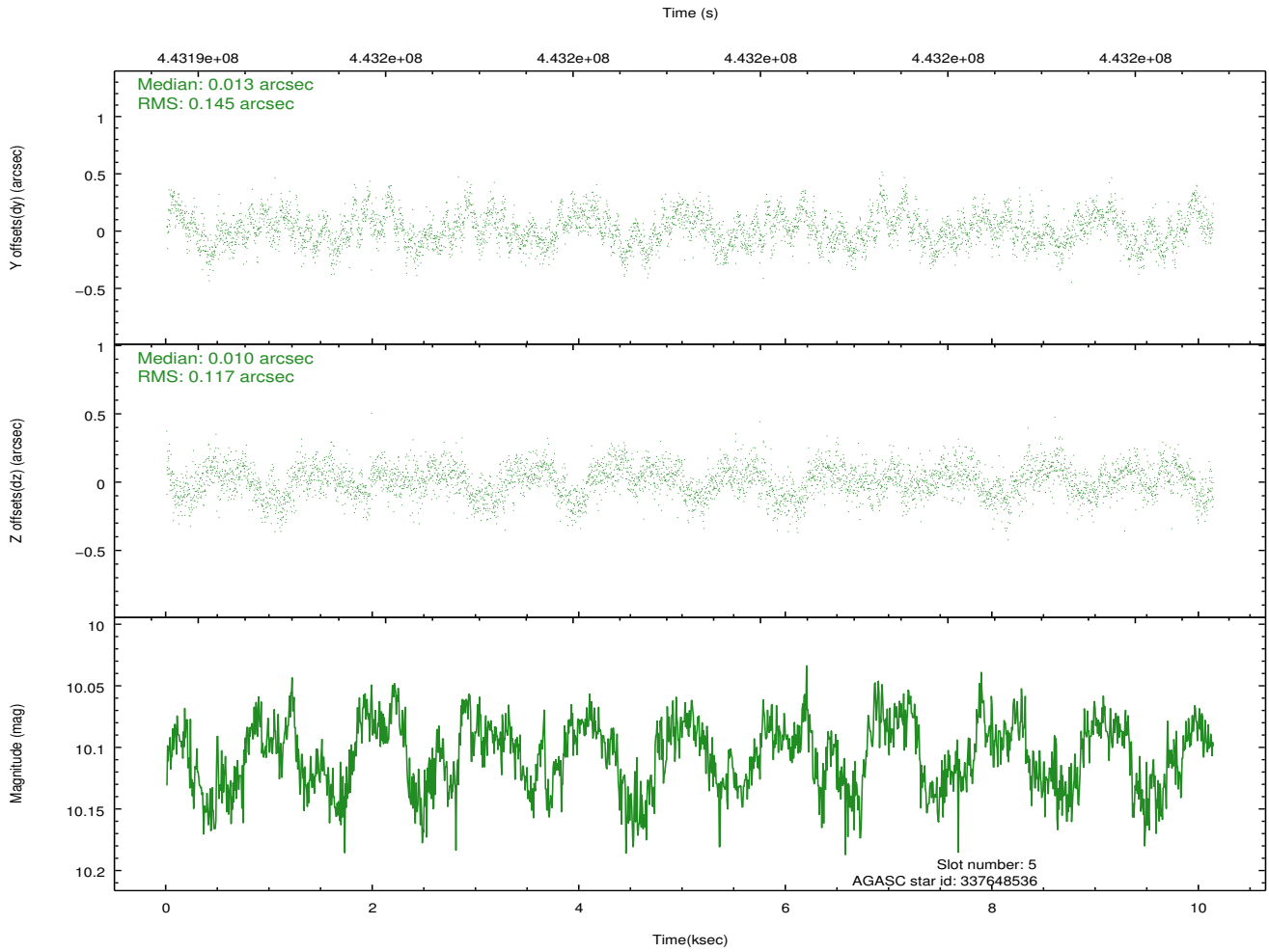
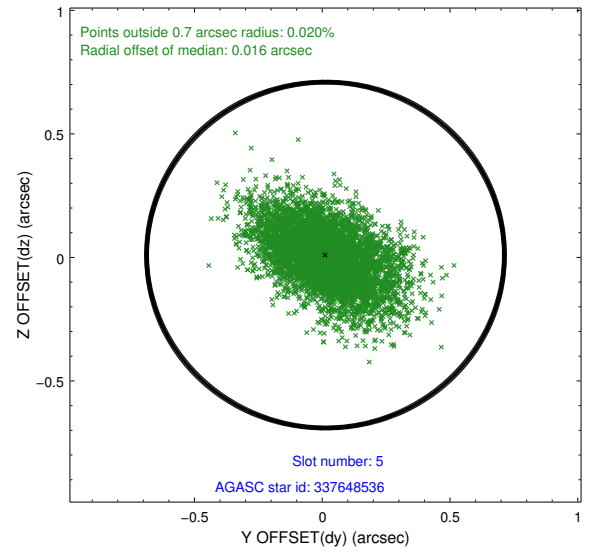
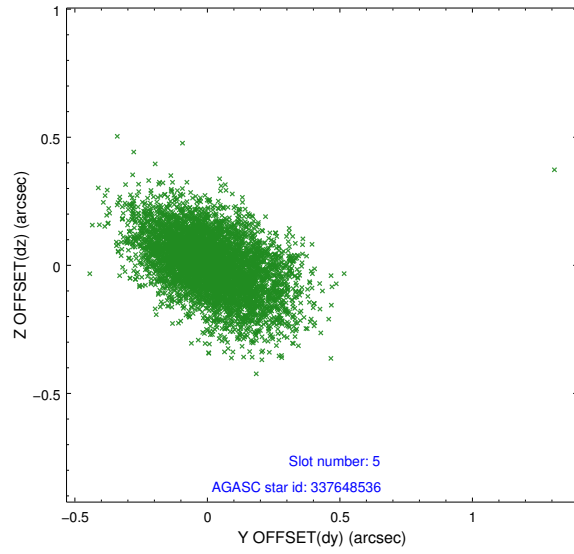
### 2.4.1 Slot 3



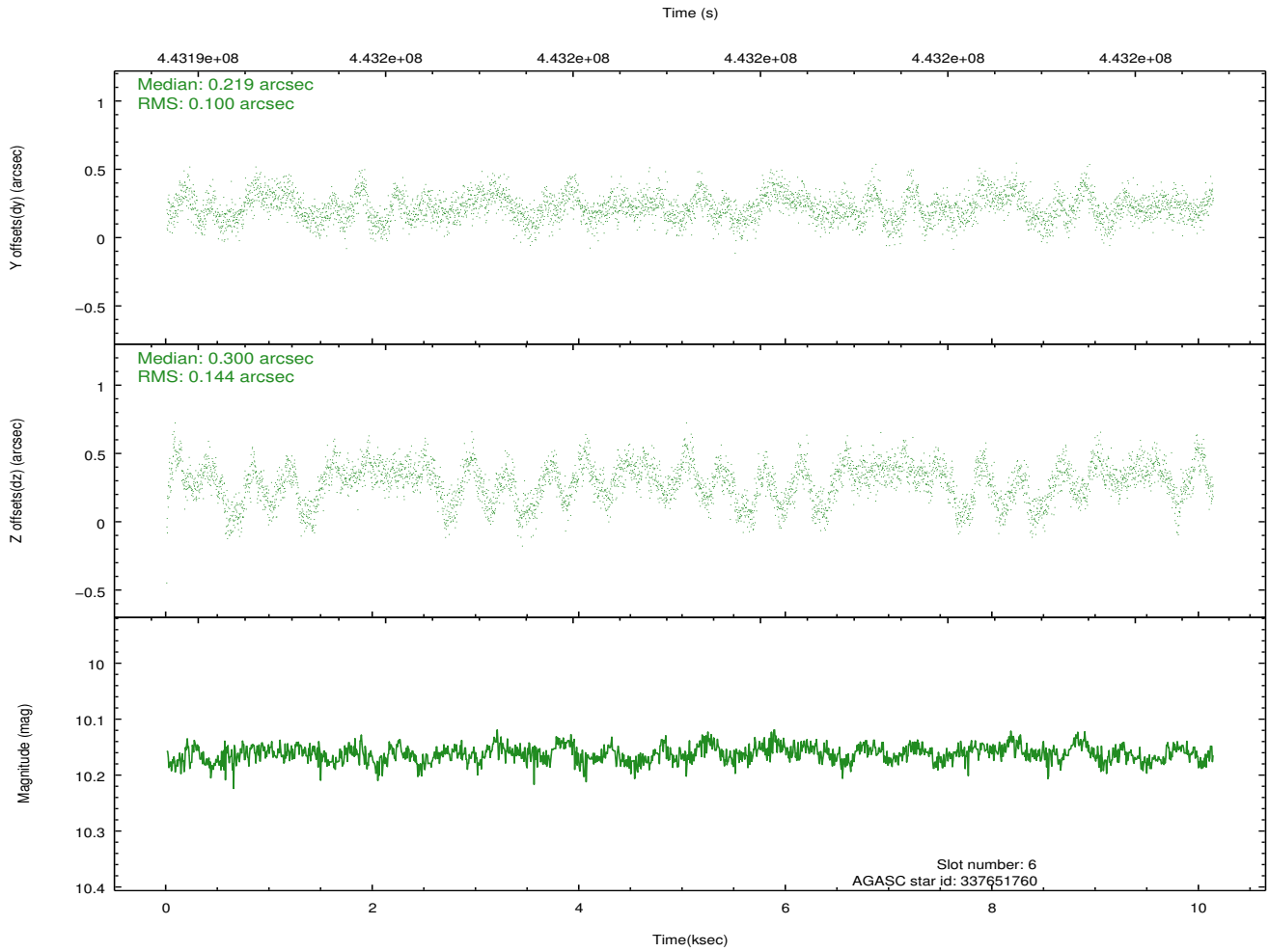
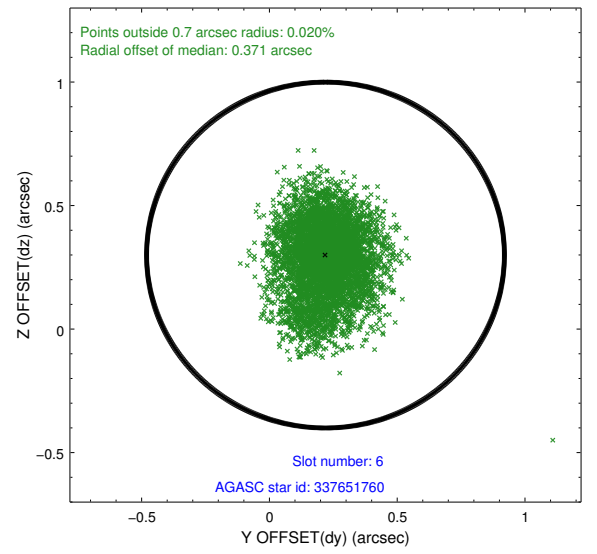
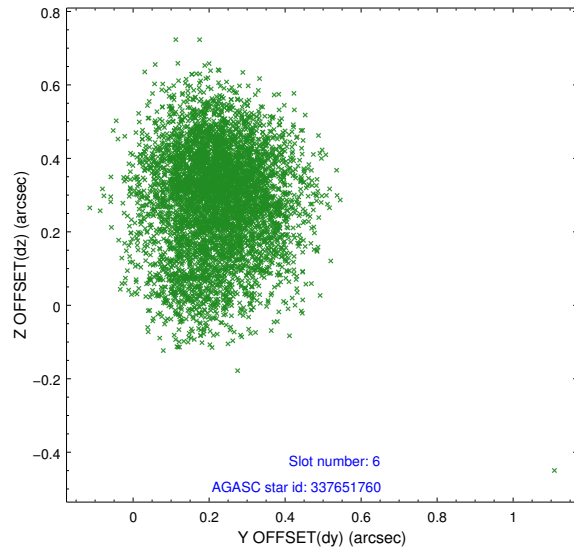
## 2.4.2 Slot 4



### 2.4.3 Slot 5

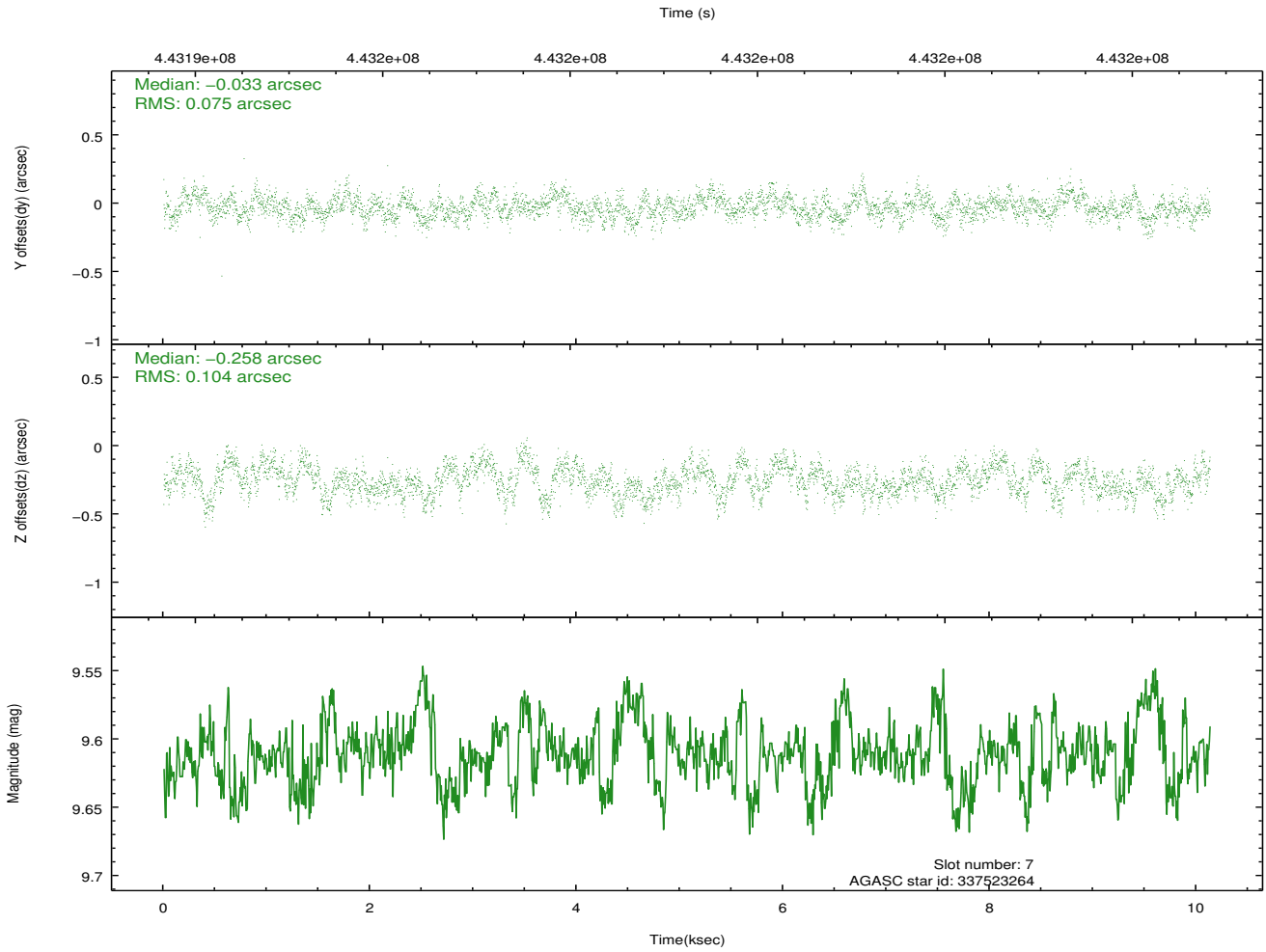
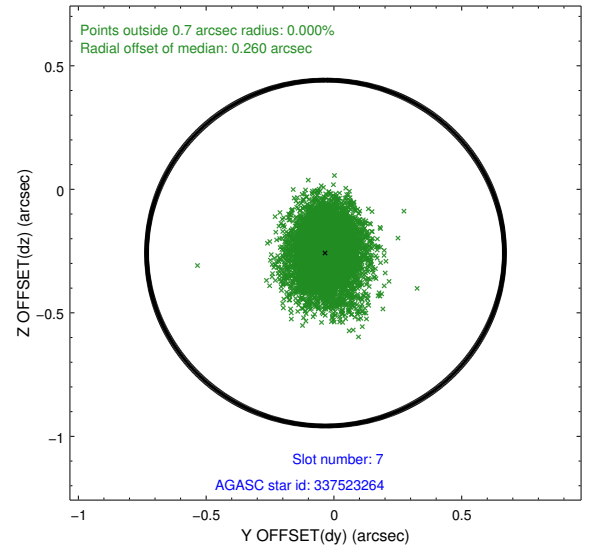
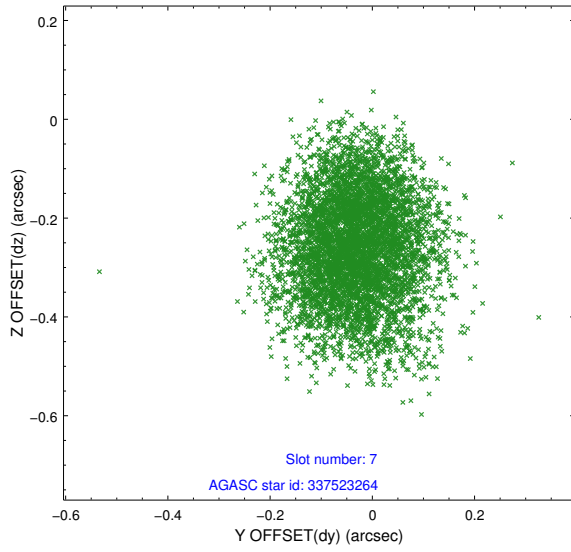


## 2.4.4 Slot 6



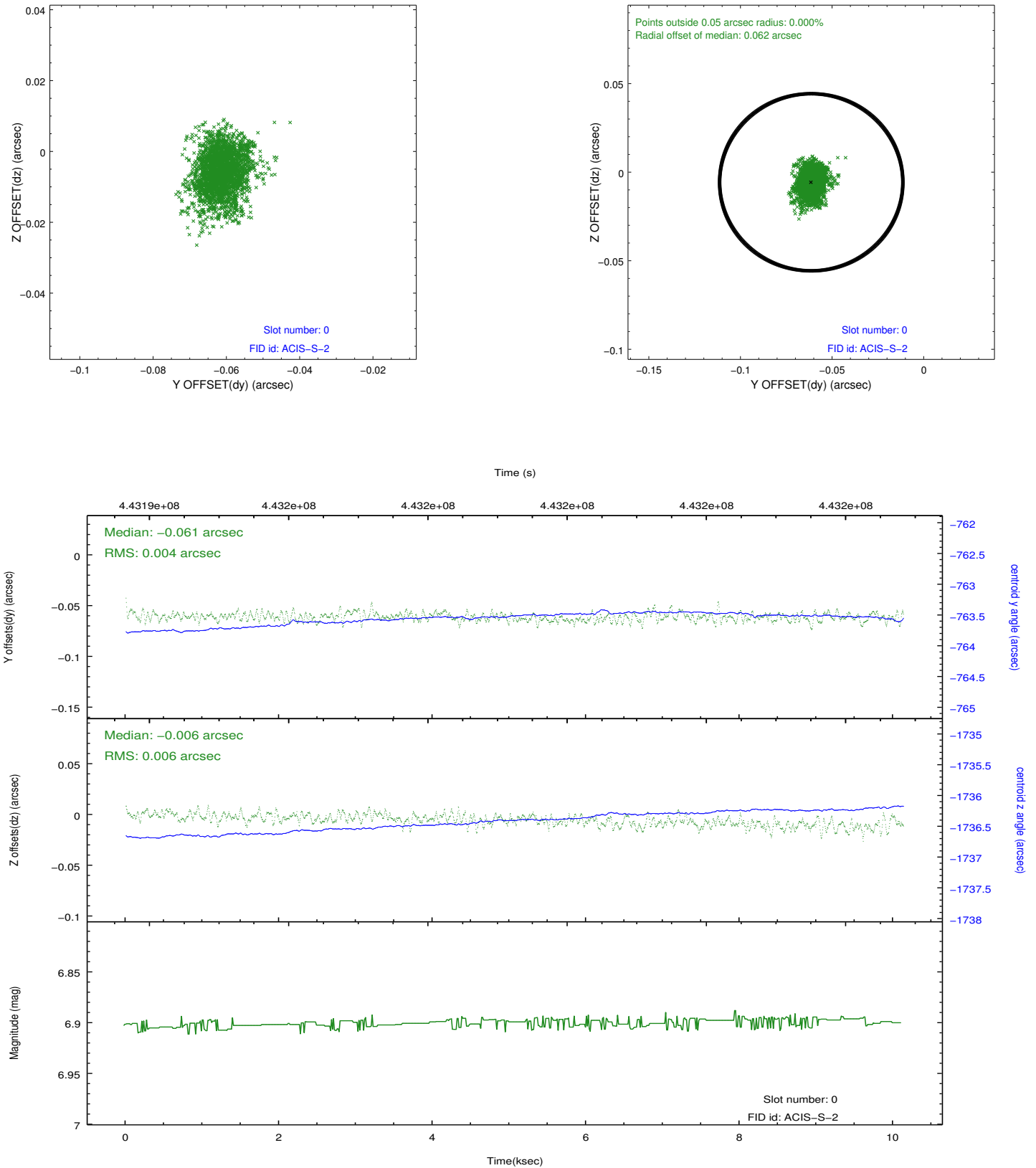


## 2.4.5 Slot 7

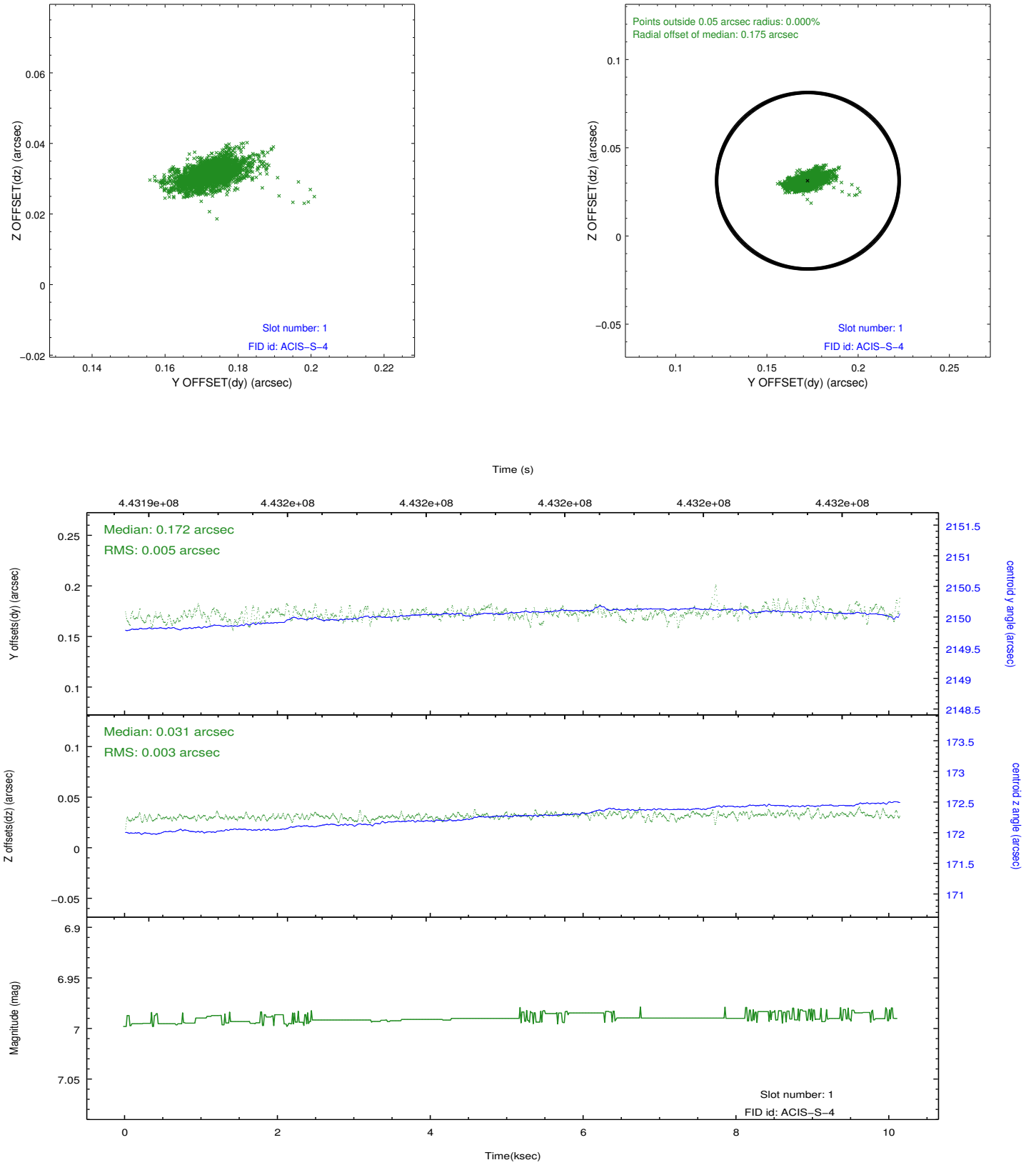


## 2.5 FID Slots

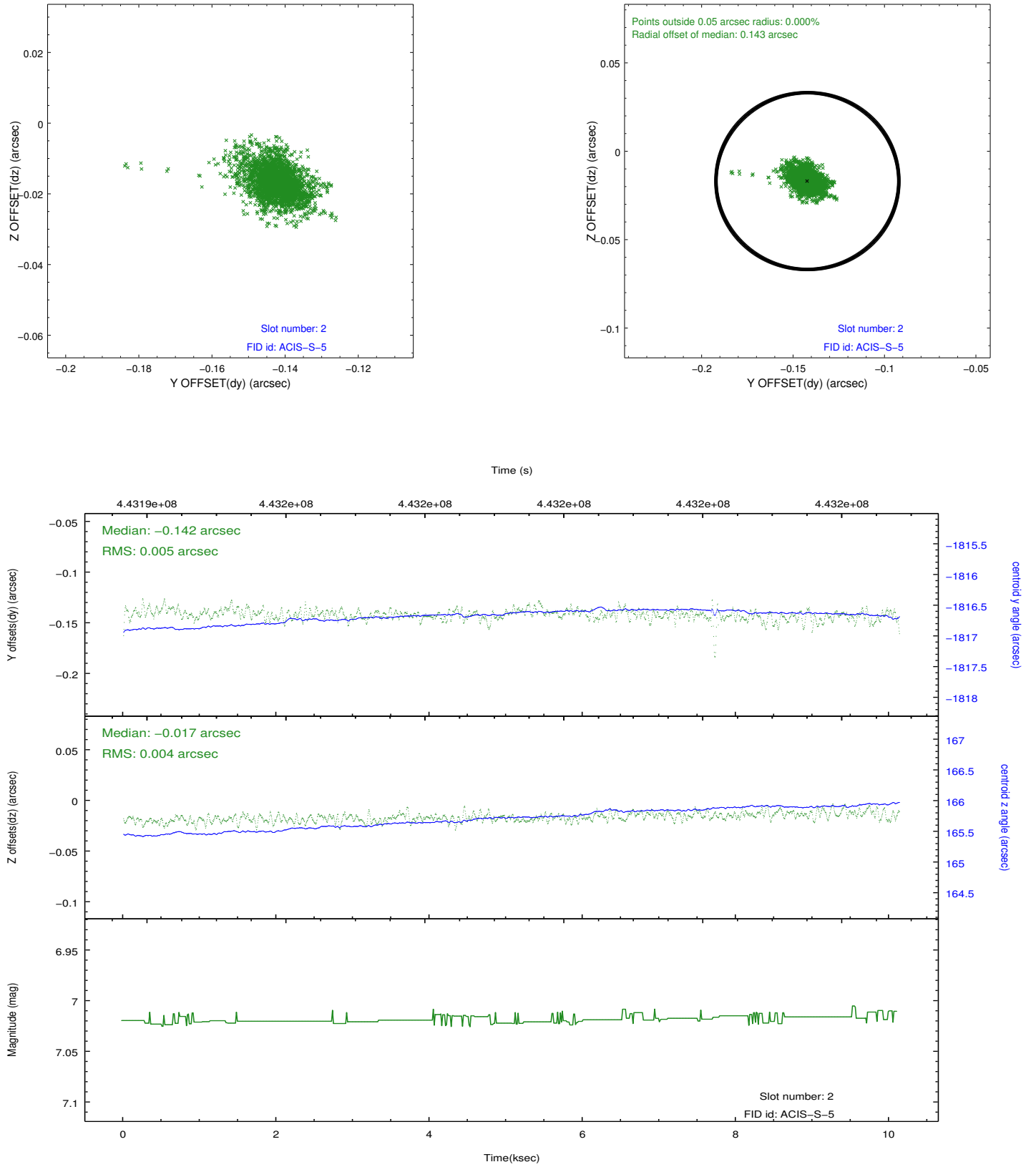
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.01.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9615999629498

### A.2 Comments