

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13625 - L2 Version 1  
Chandra X-Ray Center

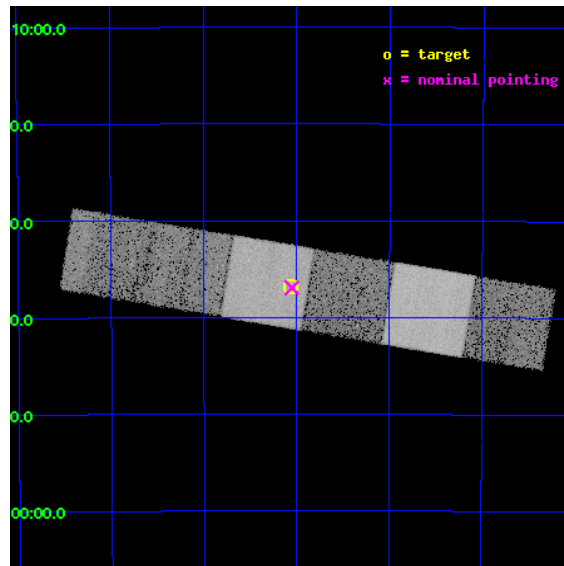
L2 Processing Date : Jul 10 2012

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# 1 Front

seq_num	200779	Sequence number
obs_id	13625	Observation id
title	Characterizing the X-ray Properties of Extreme Magnetic Massive Stars	Proposal title
observer	Dr. Veronique Petit	Principal investigator
object	HR 3089	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	118.265	Observer's specified target RA [deg]
dec_targ	-49.613056	Observer's specified target Dec [deg]
ra_nom	118.26310101528	Nominal RA [deg]
dec_nom	-49.615842669846	Nominal Dec [deg]
roll_nom	189.38303092117	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14963.199944317	Sum of GTIs [s]
livetime	14773.726896865	Livetime [s]
ontime4	14963.199944317	Sum of GTIs [s]
ontime5	14963.199944317	Sum of GTIs [s]
ontime6	14963.199944317	Sum of GTIs [s]
ontime7	14963.199944317	Sum of GTIs [s]
ontime8	14963.199944317	Sum of GTIs [s]
ontime9	14963.199944317	Sum of GTIs [s]
l2events	165912	Number of level 2 events

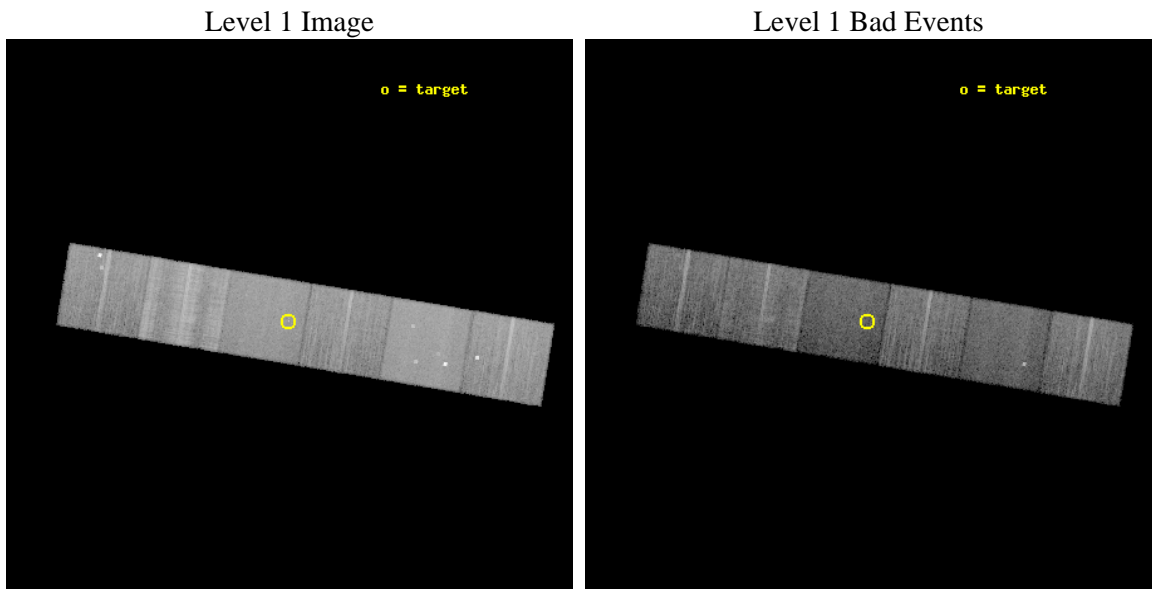




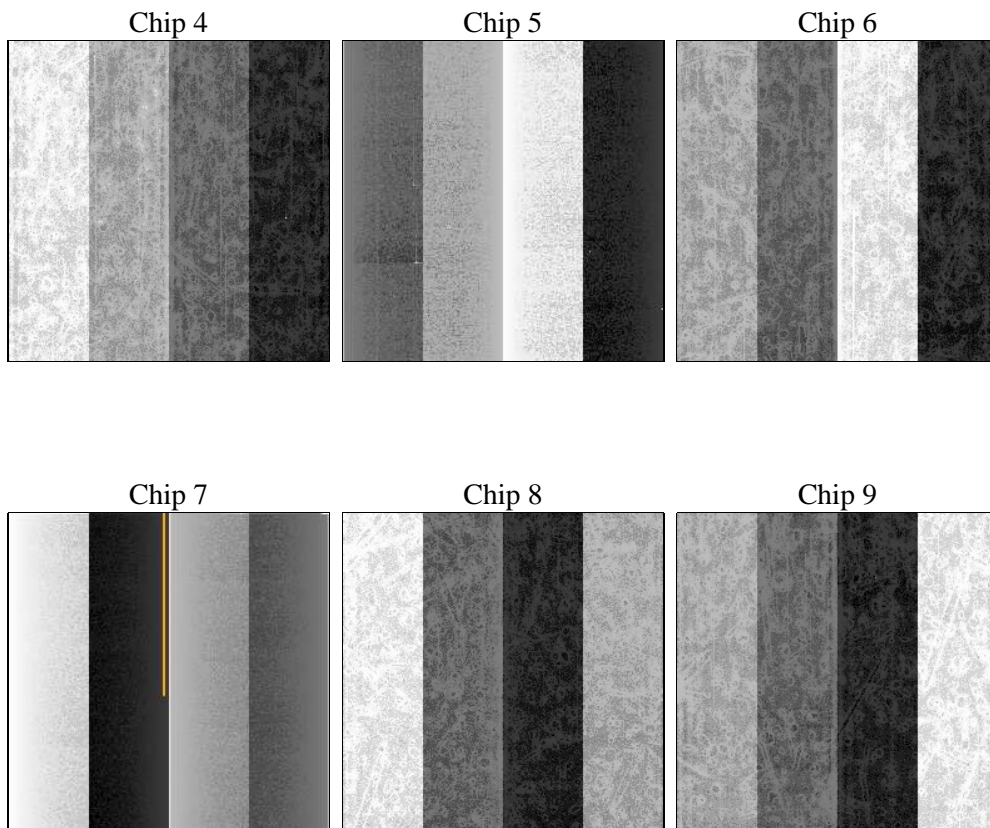
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	14963.199944317	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime4	14963.199944317	Sum of GTIs [s]
date	2012-07-10T07:19:19	Date and time of file creation	ontime5	14963.199944317	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	14963.199944317	Sum of GTIs [s]
			ontime7	14963.199944317	Sum of GTIs [s]
			ontime8	14963.199944317	Sum of GTIs [s]
			ontime9	14963.199944317	Sum of GTIs [s]
			l1events	747053	Number of level 1 events

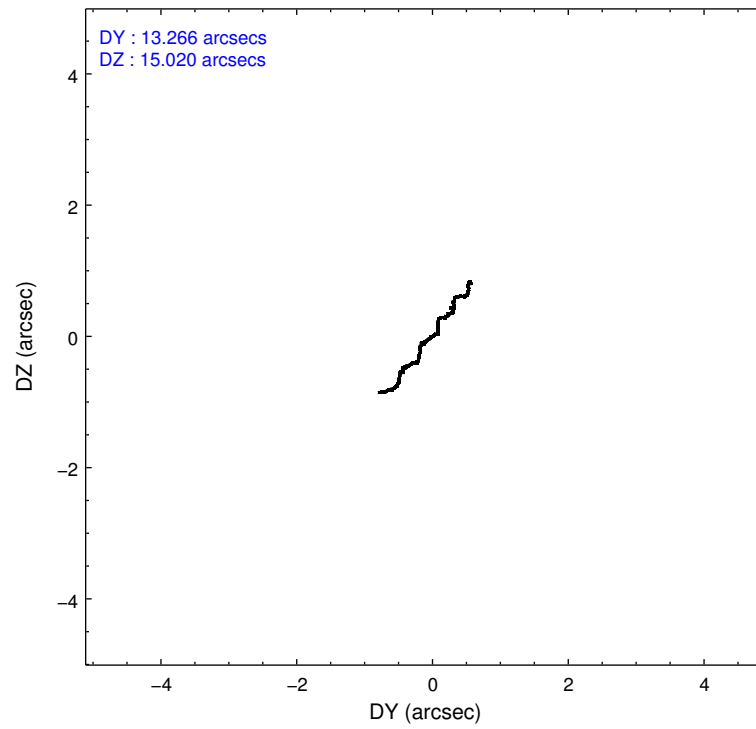
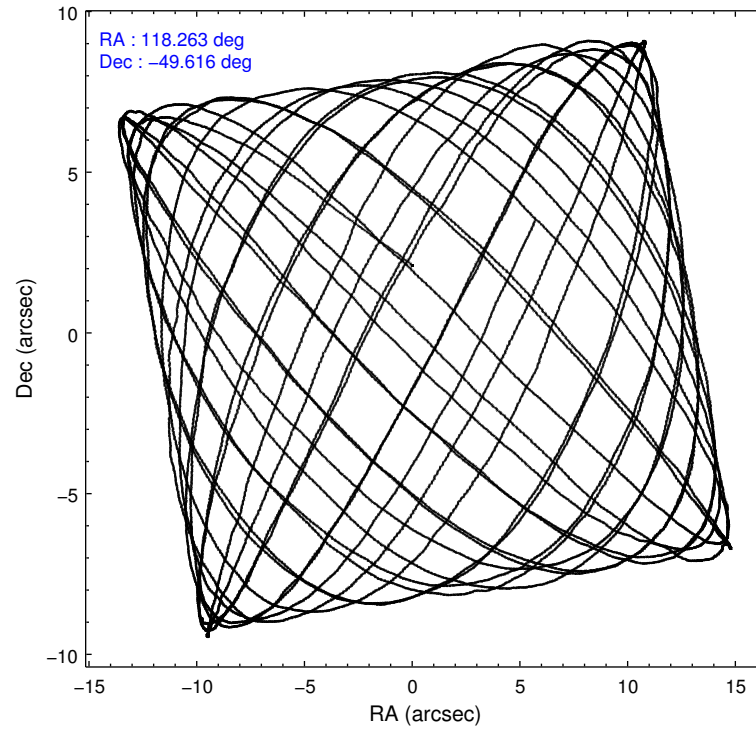
### 2.1.4 Events

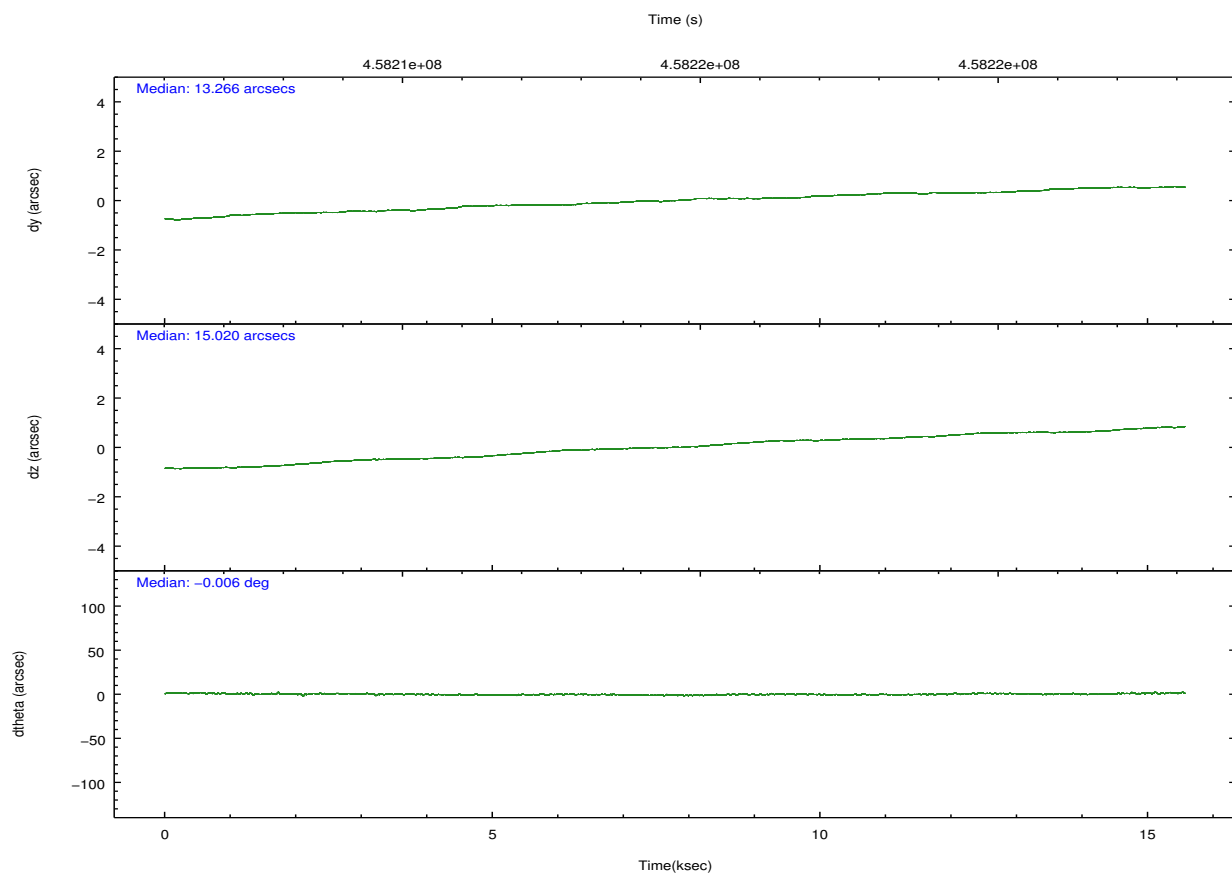
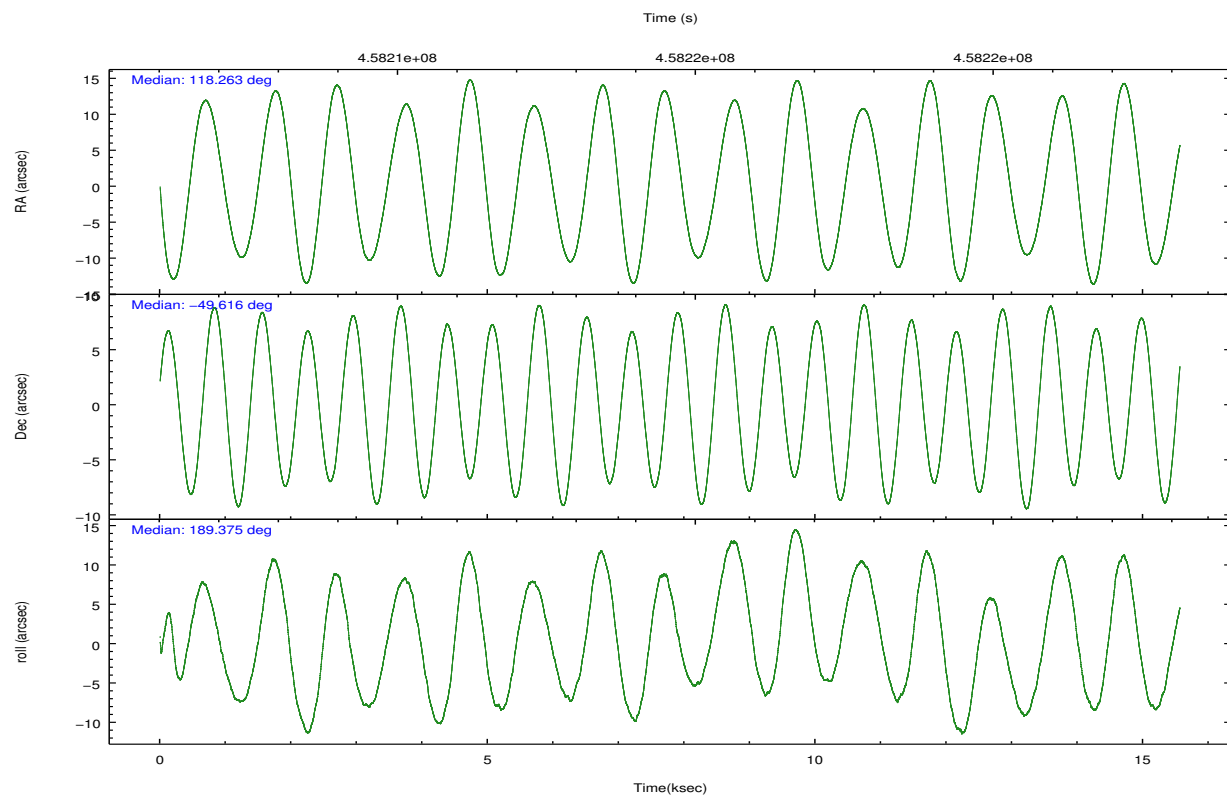
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	121271	145840	101506	115087	160187	103162	grade 0 events	9760	7632	4854	5484	21383	10504
rejected events	103298	70077	89257	60332	94520	84877		8%	5%	4%	4%	13%	10%
rejected %	85%	48%	87%	52%	59%	82%	grade 1 events	153	1261	59	158	180	113
								0%	0%	0%	0%	0%	0%
							grade 2 events	3550	25746	2802	11835	11761	2889
								2%	17%	2%	10%	7%	2%
							grade 3 events	1286	3093	1064	4861	9184	1183
								1%	2%	1%	4%	5%	1%
							grade 4 events	1261	3051	1167	4775	8533	1215
								1%	2%	1%	4%	5%	1%
							grade 5 events	4082	10310	4037	11430	6317	4384
								3%	7%	3%	9%	3%	4%
							grade 6 events	2118	36256	2365	27813	14807	2501
								1%	24%	2%	24%	9%	2%
							grade 7 events	99061	58491	85158	48731	88022	80373
								81%	40%	83%	42%	54%	77%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	118.295407	118.2631010152806	CCD I2 on	N	N
[deg] Pointing Dec	-49.598204	-49.61584266984612	CCD I3 on	N	N
[deg] Pointing Roll	189.251009	189.3830309211702	CCD S0 on	O4	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	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	O1	Y
[s] Observation start time (MET)	458207356.184000	458206203.50218	CCD S5 on	O3	Y
Observation start date	2012-07-09T07:48:09	2012-07-09T07:30:03	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	458222356.184000	458223071.41558	On-chip summing requested	N	N
Observation end date	2012-07-09T11:58:09	2012-07-09T12:11:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



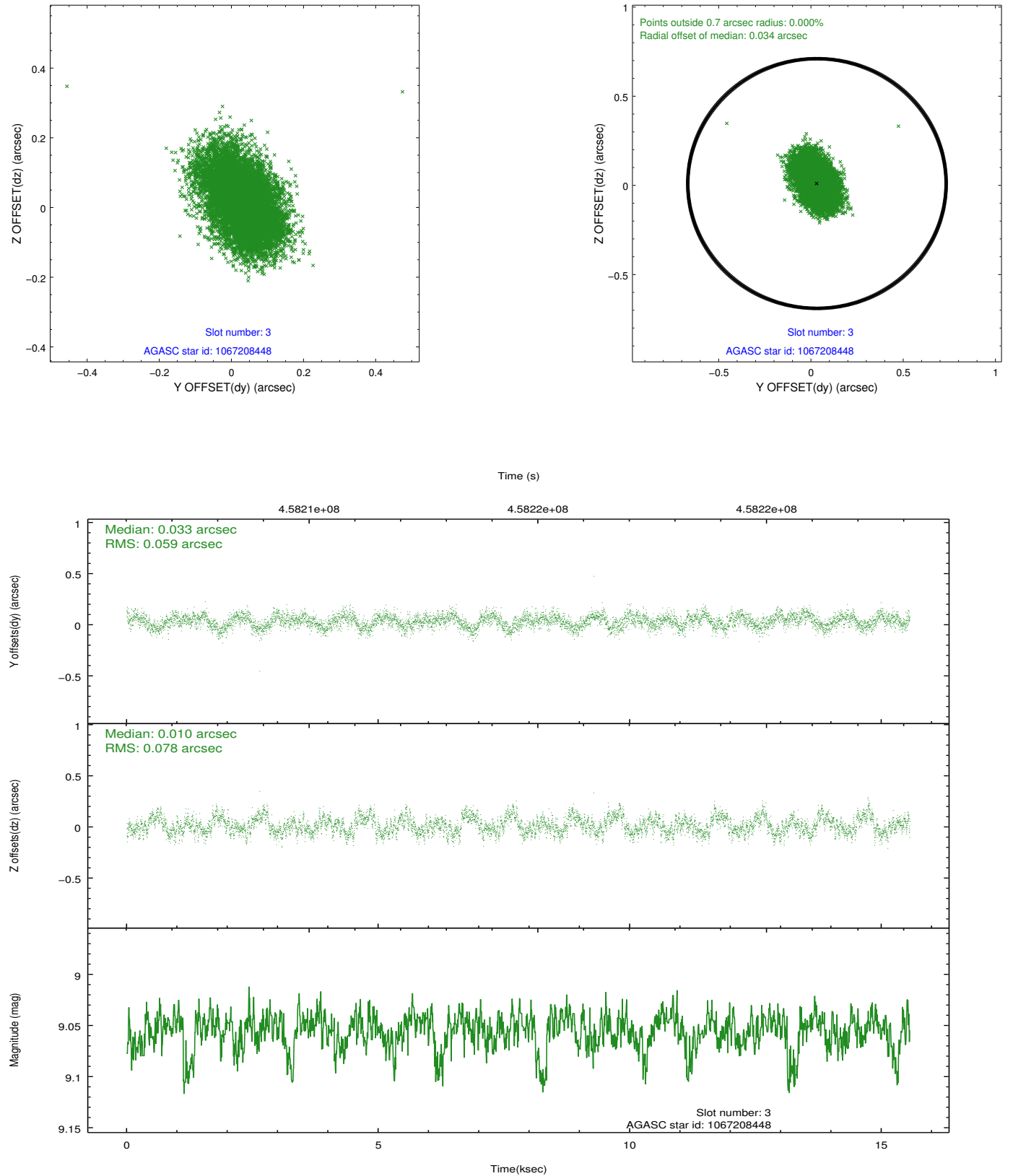


### Slot Statistics

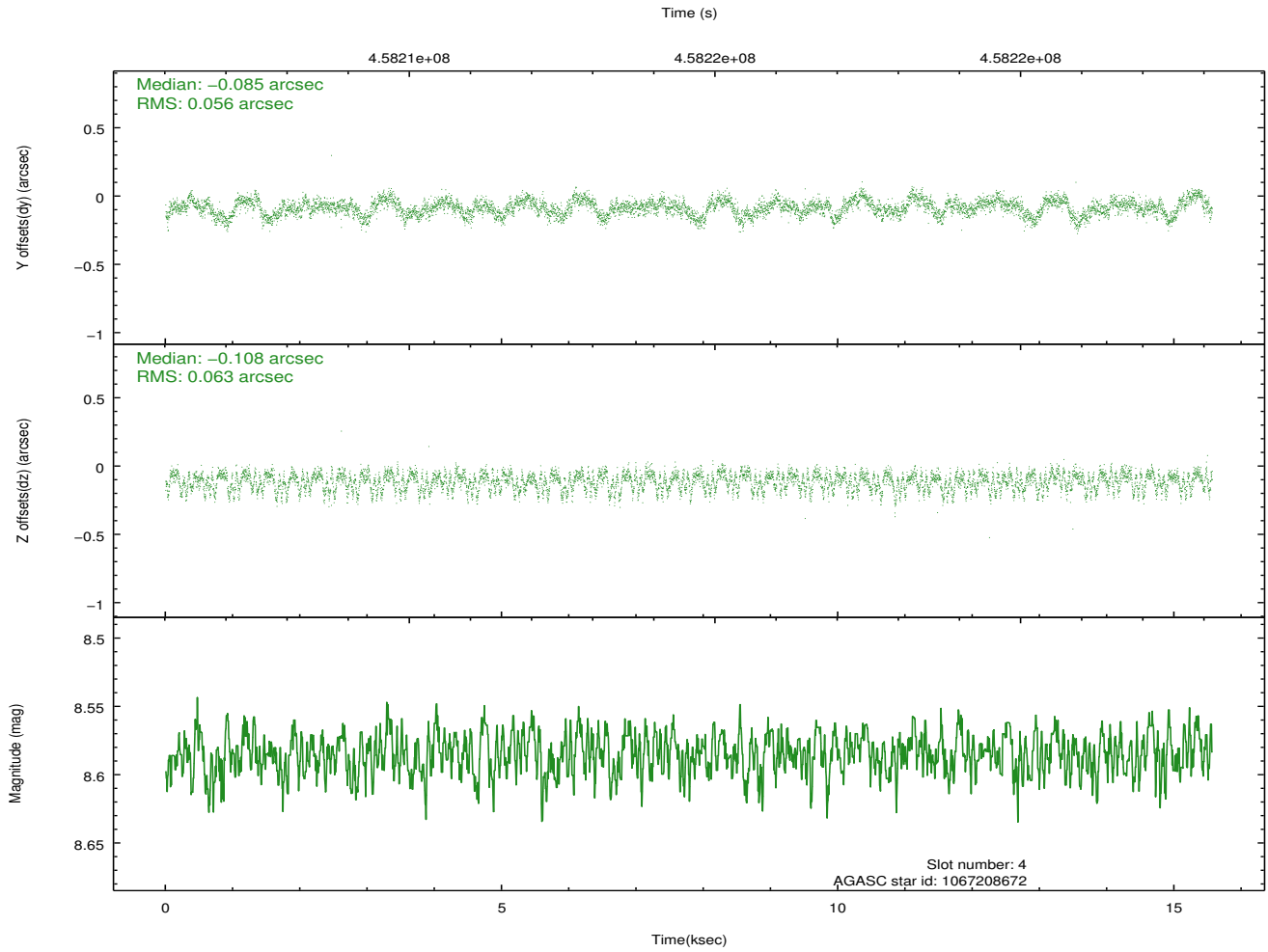
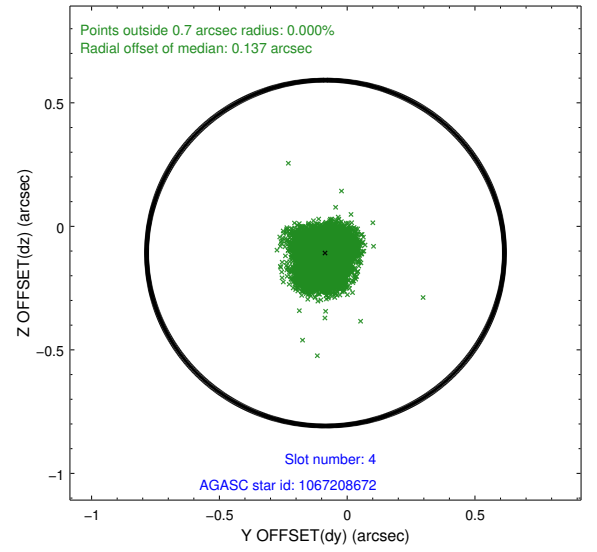
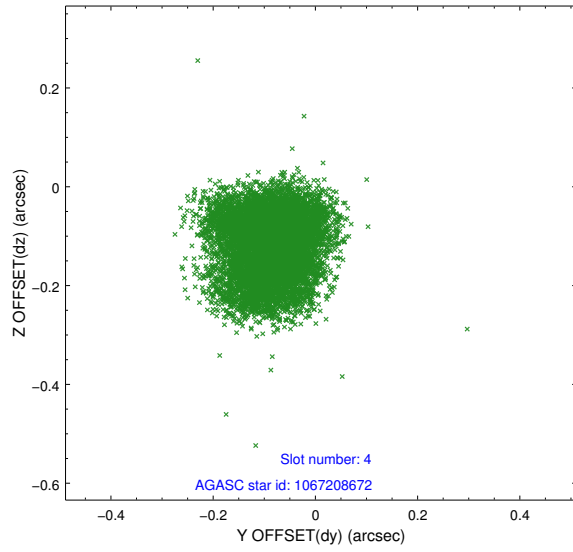
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.03	3796	0.049	-0.031	0.030	0.042	0.000000	0.000000	929.94	-1732.06
1	FID	ACIS-S-4	7.03	3796	0.163	0.003	0.029	0.046	0.000000	0.000000	2147.59	171.86
2	FID	ACIS-S-5	7.06	3796	-0.238	0.041	0.023	0.035	0.000000	0.000000	-1818.88	165.76
3	GUIDE	1067208448	9.05	7591	0.033	0.010	0.103	0.169	118.079492	-49.838278	633.72	772.85
4	GUIDE	1067208672	8.58	7592	-0.085	-0.108	0.091	0.142	118.040362	-50.099960	871.56	1689.36
5	GUIDE	1067322376	7.97	7591	0.024	0.016	0.073	0.127	118.602129	-50.170695	-366.70	2149.50
6	GUIDE	1067324568	8.56	7590	0.018	0.213	0.073	0.114	118.429751	-49.030434	-641.37	-1965.62
7	GUIDE	1067344536	9.28	7543	0.013	-0.130	0.108	0.182	118.743877	-49.594514	-1034.60	157.58

## 2.4 Star Slots

### 2.4.1 Slot 3

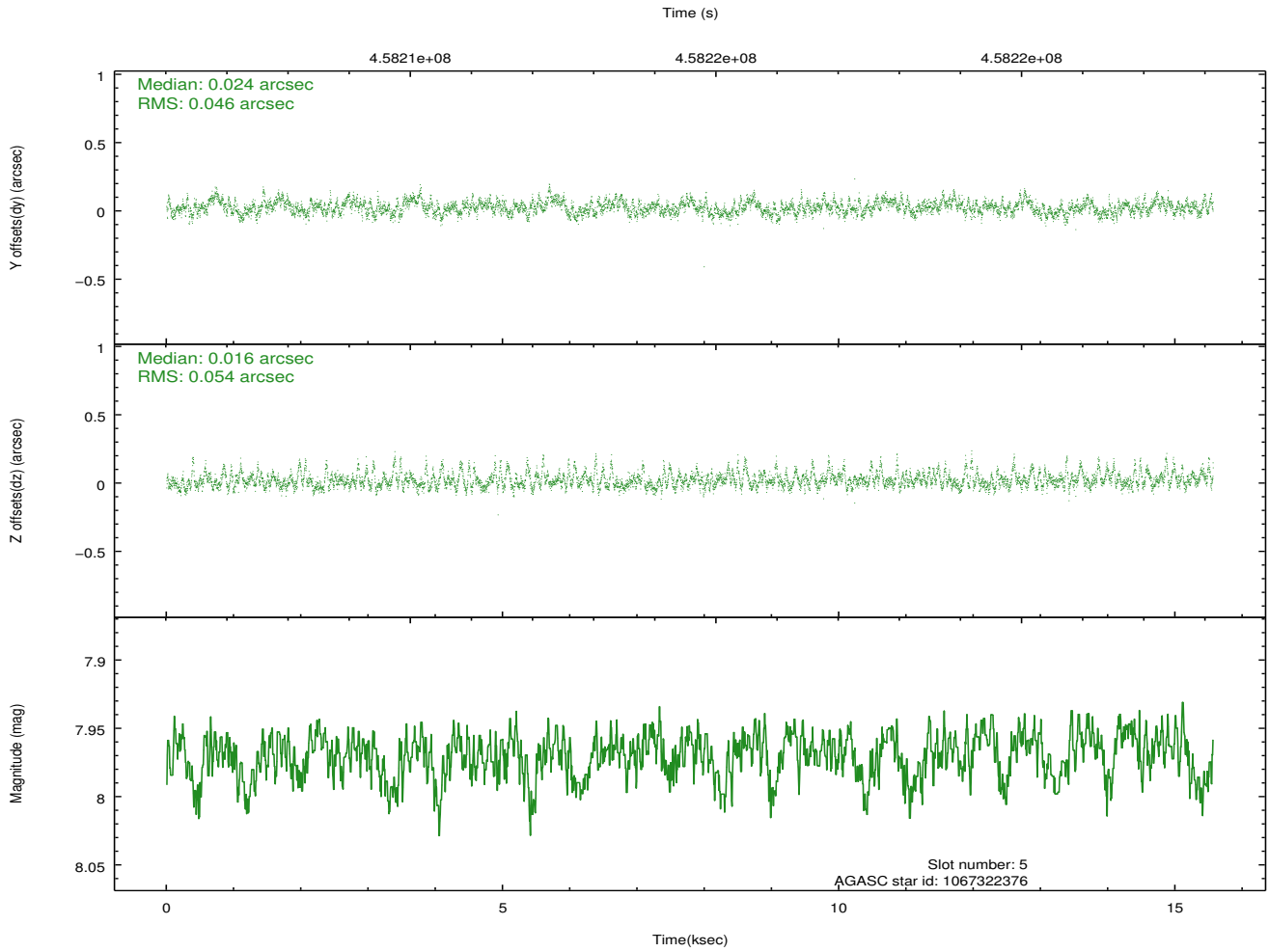
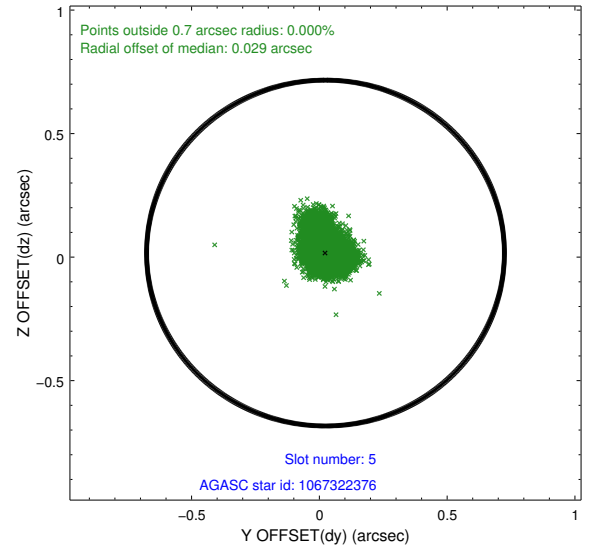
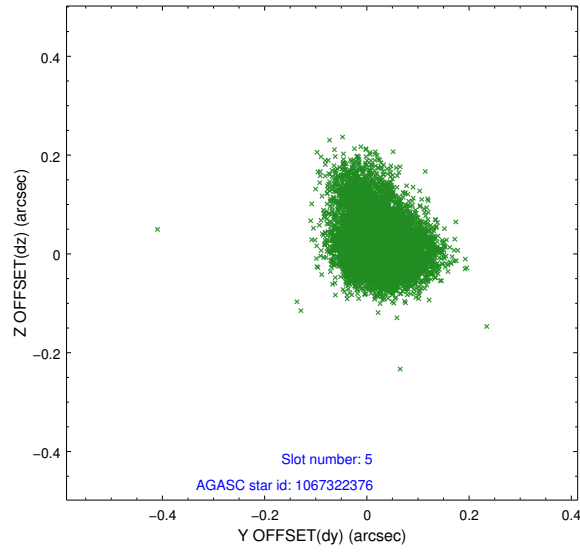


## 2.4.2 Slot 4

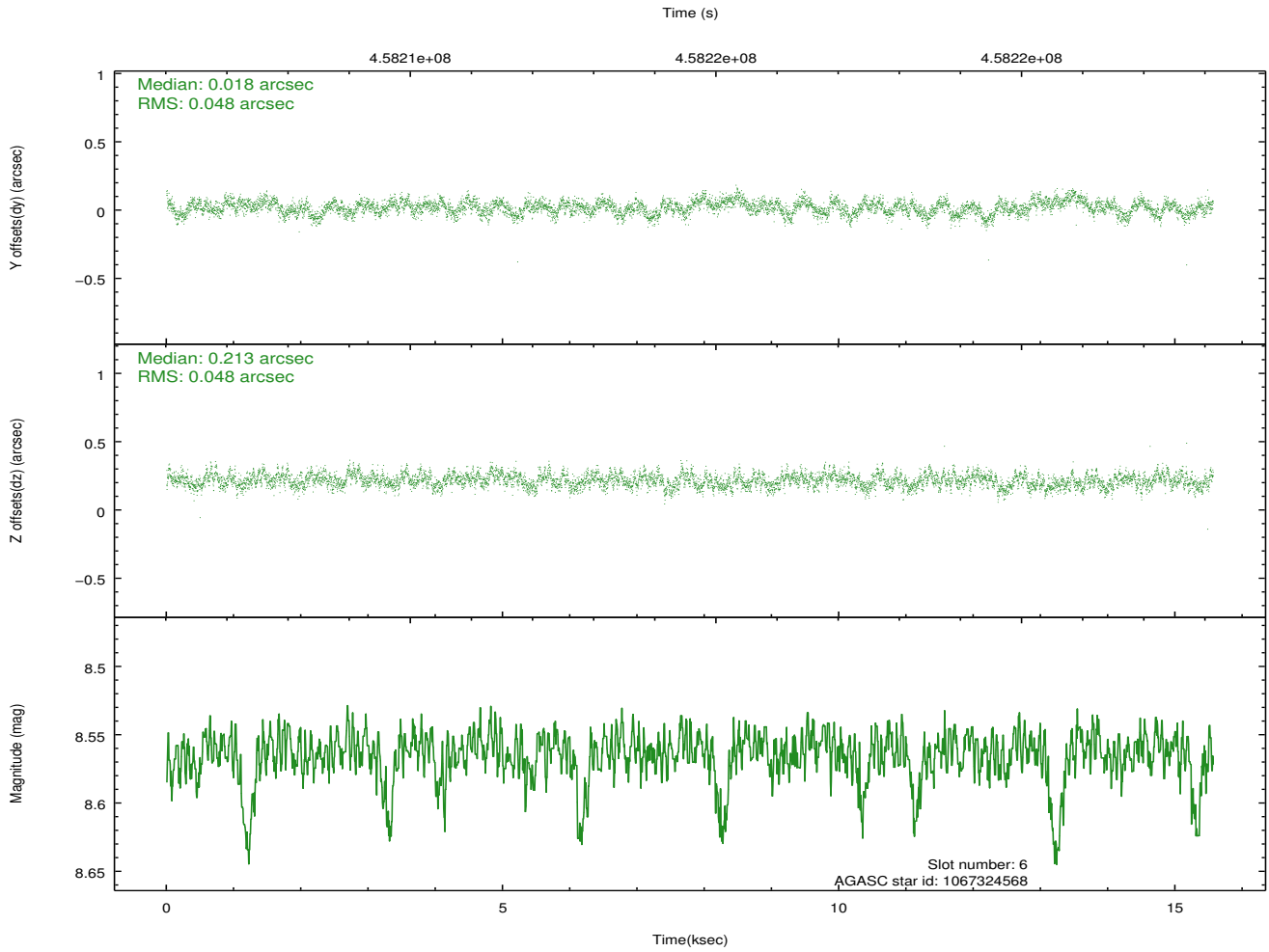
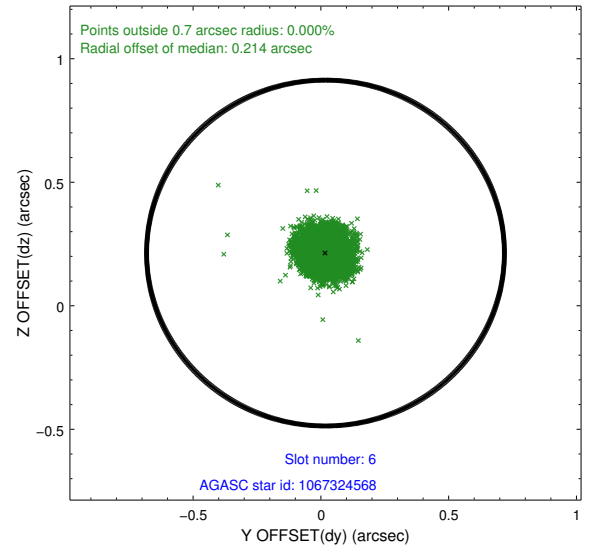
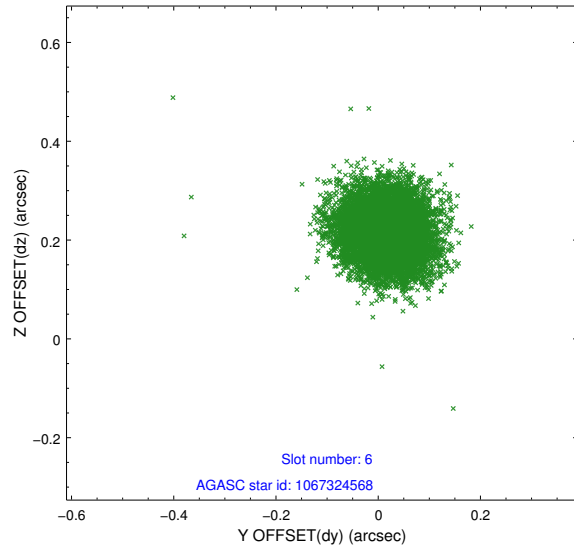




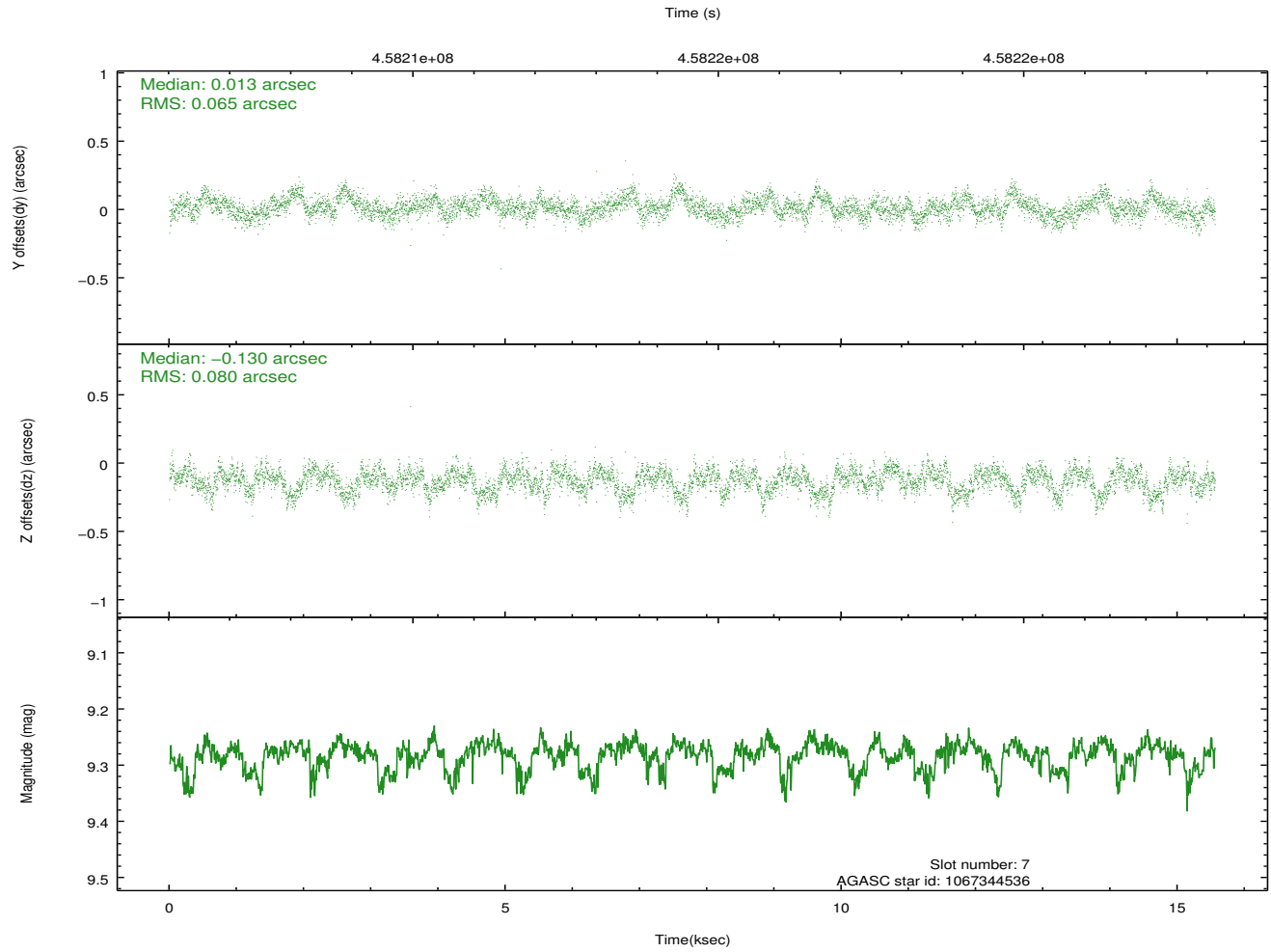
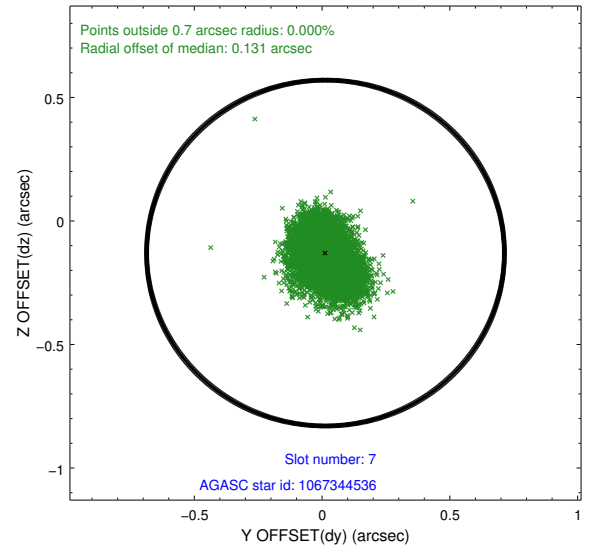
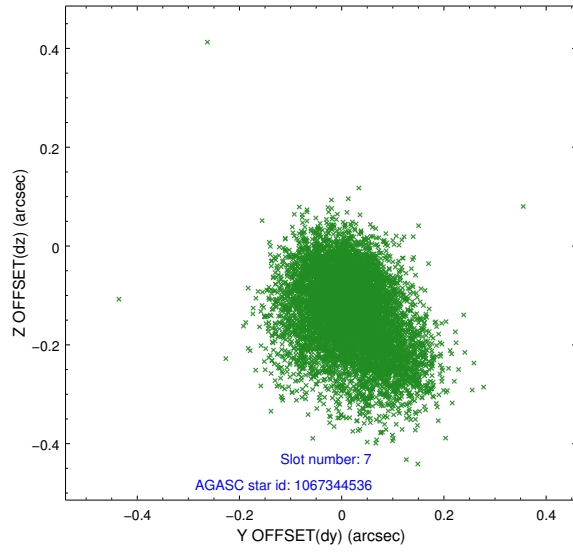
### 2.4.3 Slot 5



## 2.4.4 Slot 6

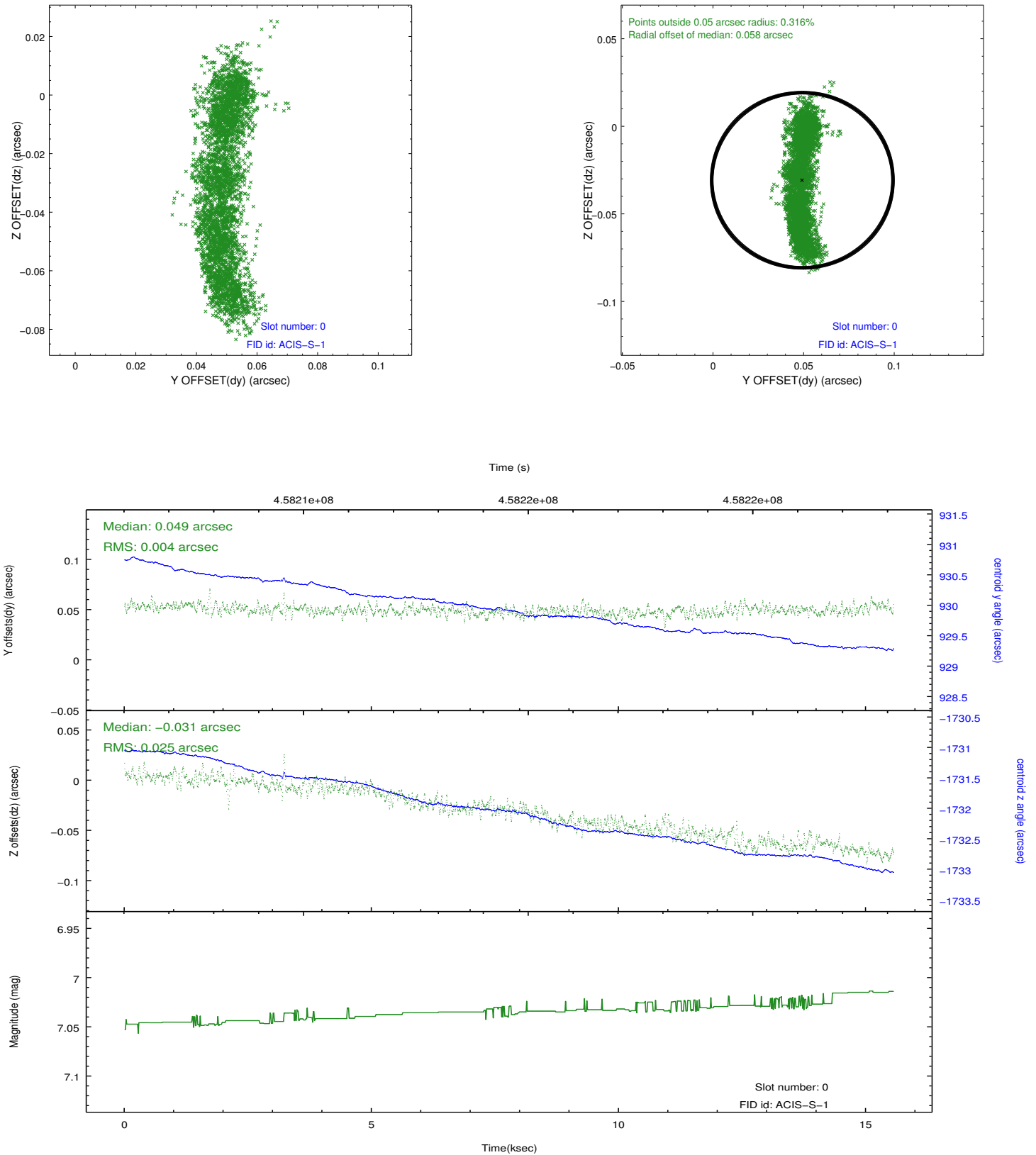


## 2.4.5 Slot 7

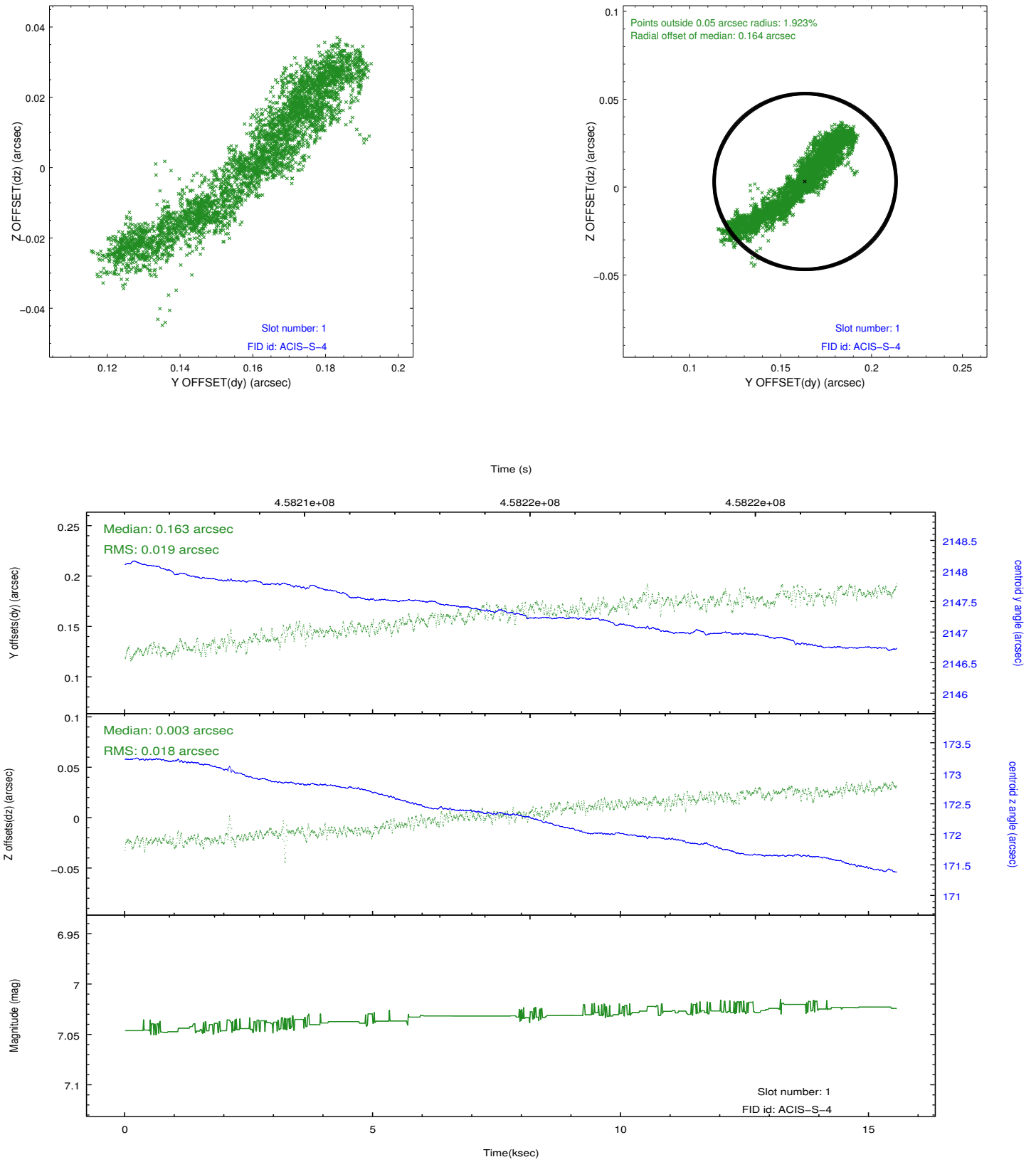


## 2.5 FID Slots

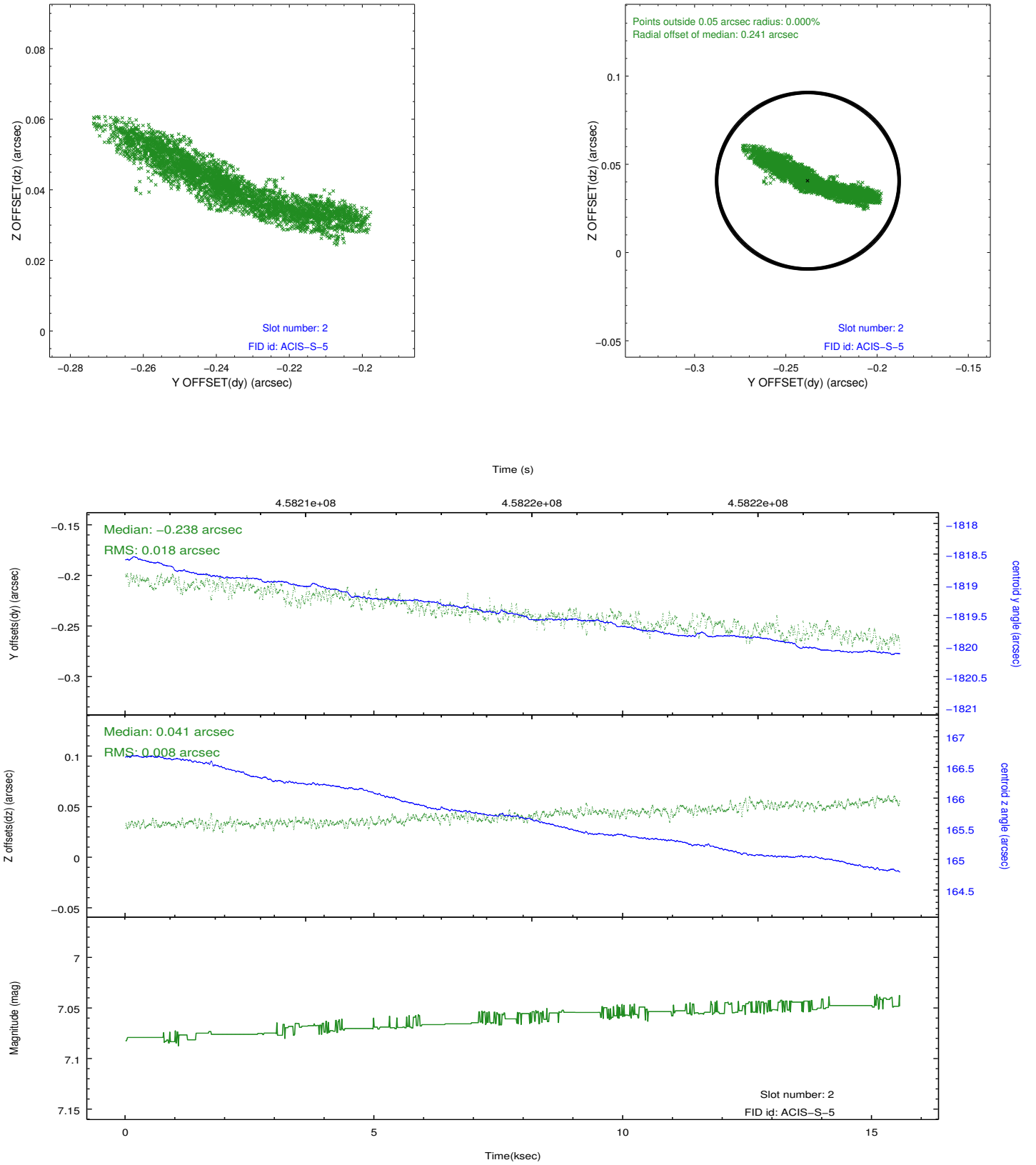
### 2.5.1 Slot 0



## 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)	2012.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.963199944317

### A.2 Comments