

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 18091 - L2 Version 1  
Chandra X-Ray Center

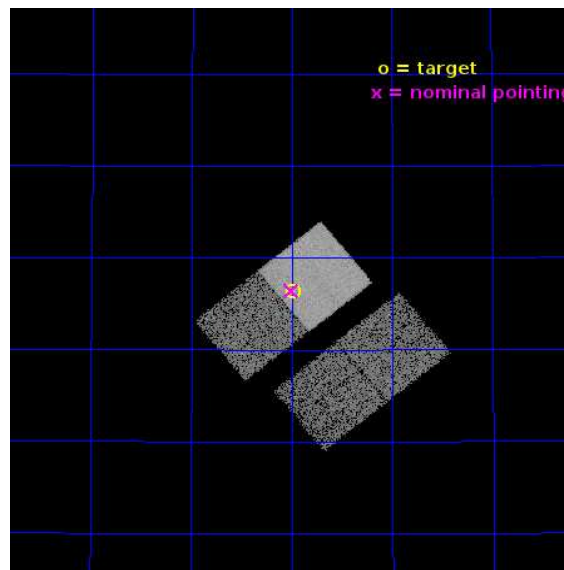
L2 Processing Date : Mar 8 2016

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# 1 Front

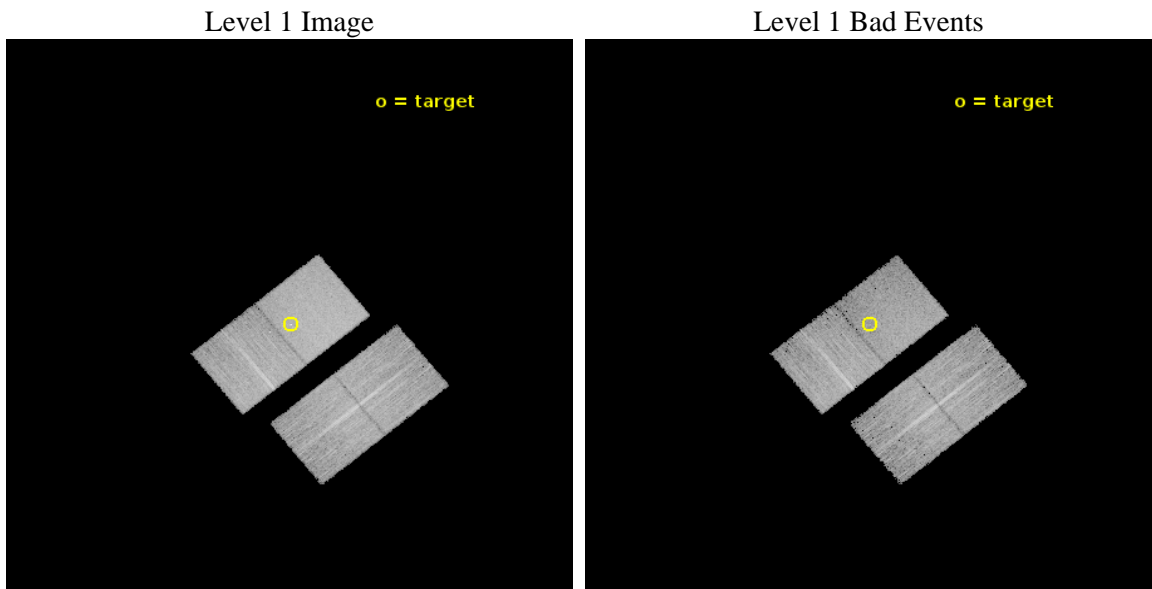
seq_num	703157	Sequence number
obs_id	18091	Observation id
title	Extending the Extragalactic 3CR Chandra Survey to z=1.5	Proposal t
observer	Francesco Massaro	Principal investigator
object	3CR 36	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	19.497917	Observer's specified target RA [deg]
dec_targ	45.605944	Observer's specified target Dec [deg]
ra_nom	19.50115819115	Nominal RA [deg]
dec_nom	45.607443822976	Nominal Dec [deg]
roll_nom	320.82724610621	Nominal Roll [deg]
revision	1	Processing version of data
ontime	12071.400092959	Sum of GTIs [s]
livetime	11913.678363909	Livetime [s]
ontime2	12071.400092959	Sum of GTIs [s]
ontime3	12071.400092959	Sum of GTIs [s]
ontime6	12071.400092959	Sum of GTIs [s]
ontime7	12071.400092959	Sum of GTIs [s]
l2events	63933	Number of level 2 events



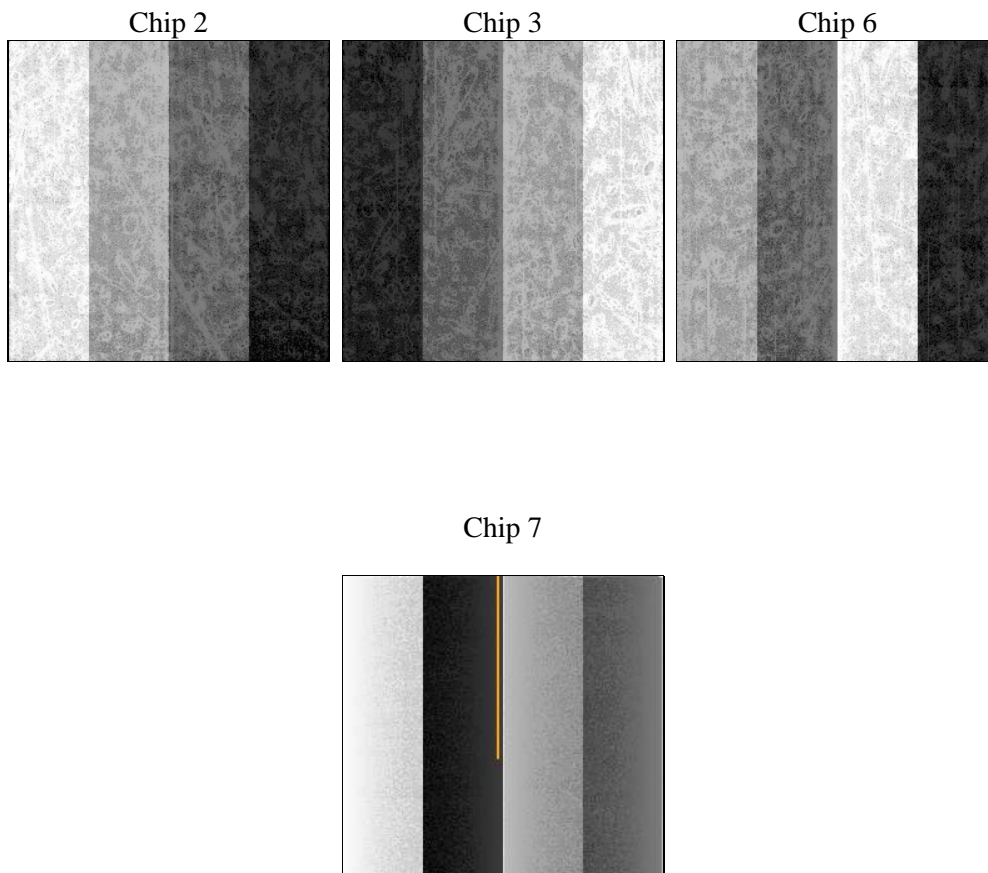
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	12071.400092959	Sum of GTIs [s]
caldbver	4.7.0	&#160	ontime2	12071.400092959	Sum of GTIs [s]
date	2016-03-09T03:03:18	Date and time of file creation	ontime3	12071.400092959	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	12071.400092959	Sum of GTIs [s]
			ontime7	12071.400092959	Sum of GTIs [s]
			l1events	319960	Number of level 1 events

### 2.1.4 Events

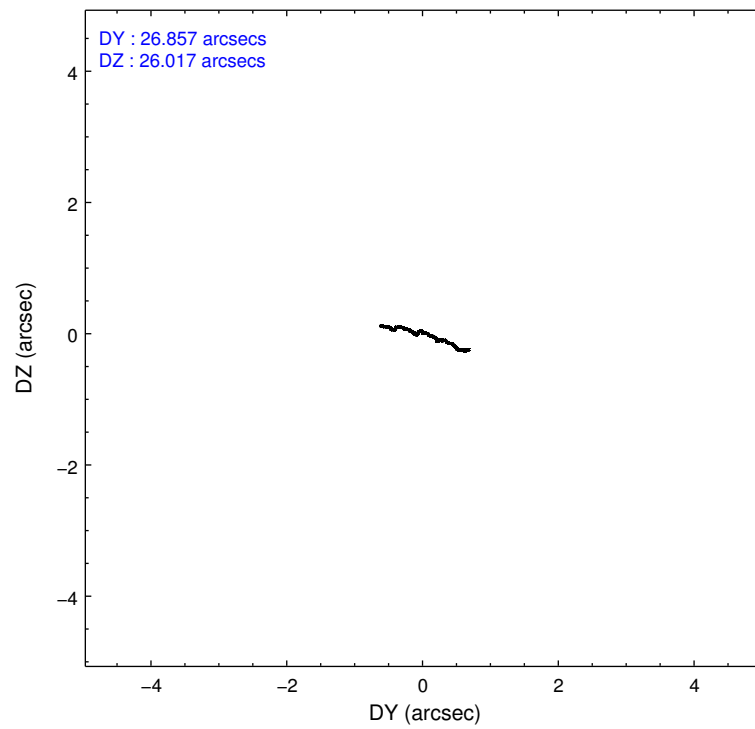
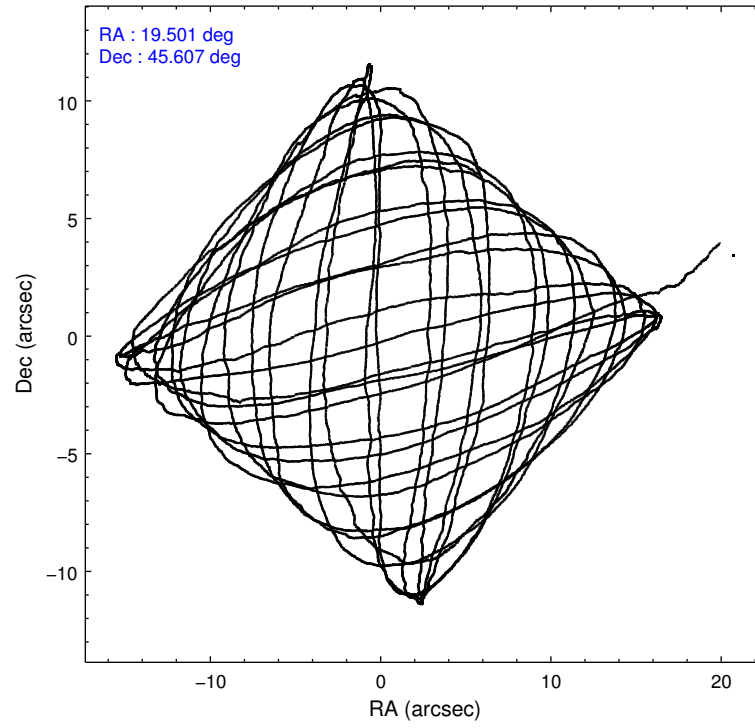
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	72147	71714	78116	97983
rejected events	63998	63560	69349	54658
rejected %	88%	88%	88%	55%

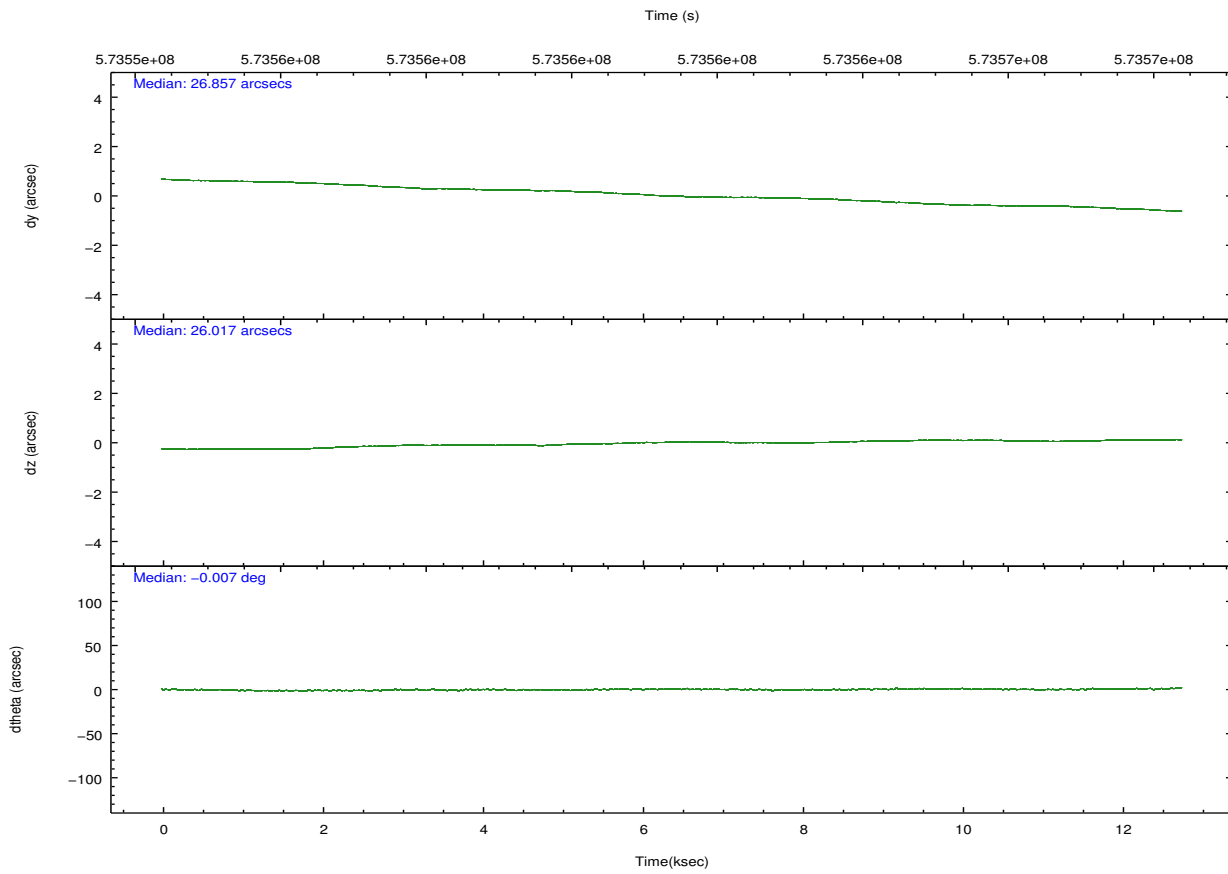
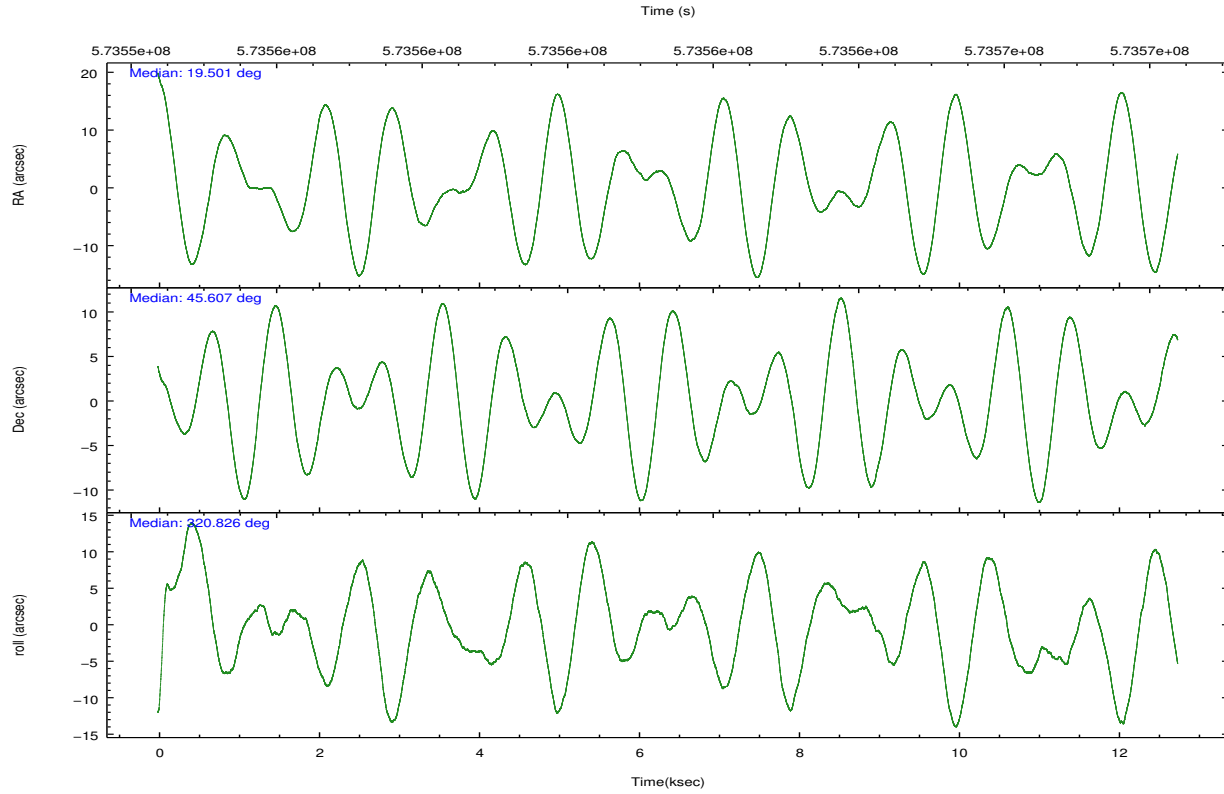
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2780	3096	2928	3816
	3%	4%	3%	3%
grade 1 events	33	39	36	124
	0%	0%	0%	0%
grade 2 events	2023	1736	2046	9111
	2%	2%	2%	9%
grade 3 events	843	810	866	3552
	1%	1%	1%	3%
grade 4 events	848	876	937	3589
	1%	1%	1%	3%
grade 5 events	3218	3662	3646	9913
	4%	5%	4%	10%
grade 6 events	1661	1642	1993	23279
	2%	2%	2%	23%
grade 7 events	60741	59853	65664	44599
	84%	83%	84%	45%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	19.462375	19.50115819114971	CCD I2 on	O1	Y
[deg] Pointing Dec	45.611434	45.60744382297631	CCD I3 on	O2	Y
[deg] Pointing Roll	320.698347	320.8272461062065	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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	N	N
[s] Observation start time (MET)	573555735.184000	573554574.31654	CCD S5 on	N	N
Observation start date	2016-03-05T09:01:07	2016-03-05T08:42:54	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	573567735.184000	573568659.86735	On-chip summing requested	N	N
Observation end date	2016-03-05T12:21:07	2016-03-05T12:37:39	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



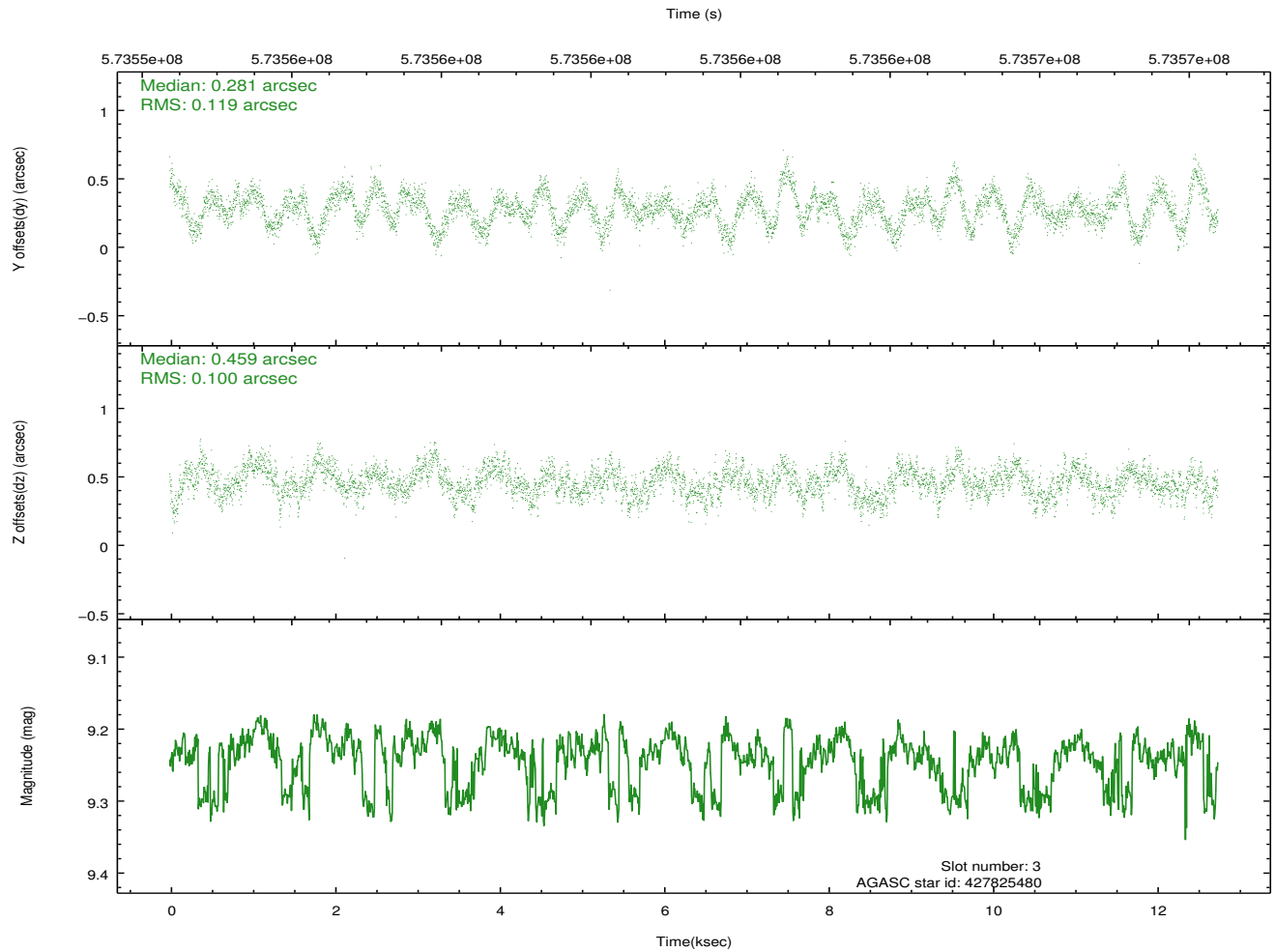
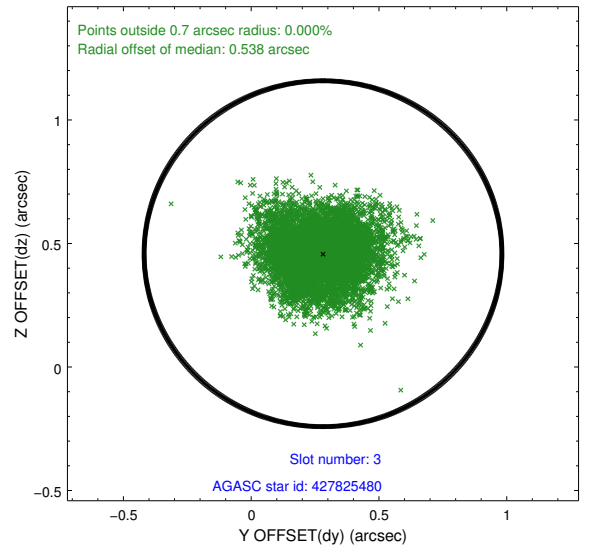
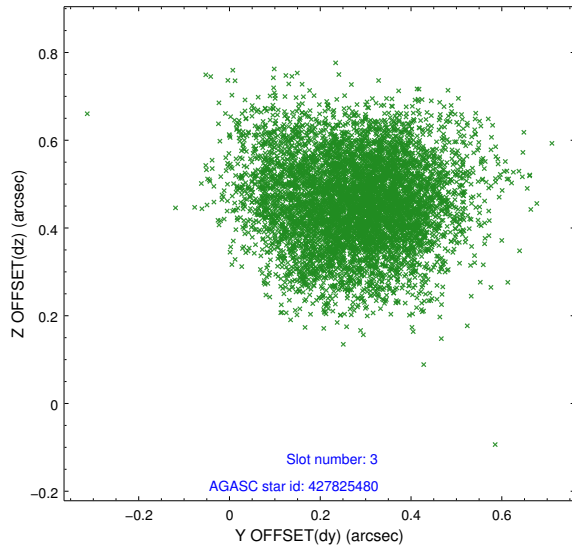


### Slot Statistics

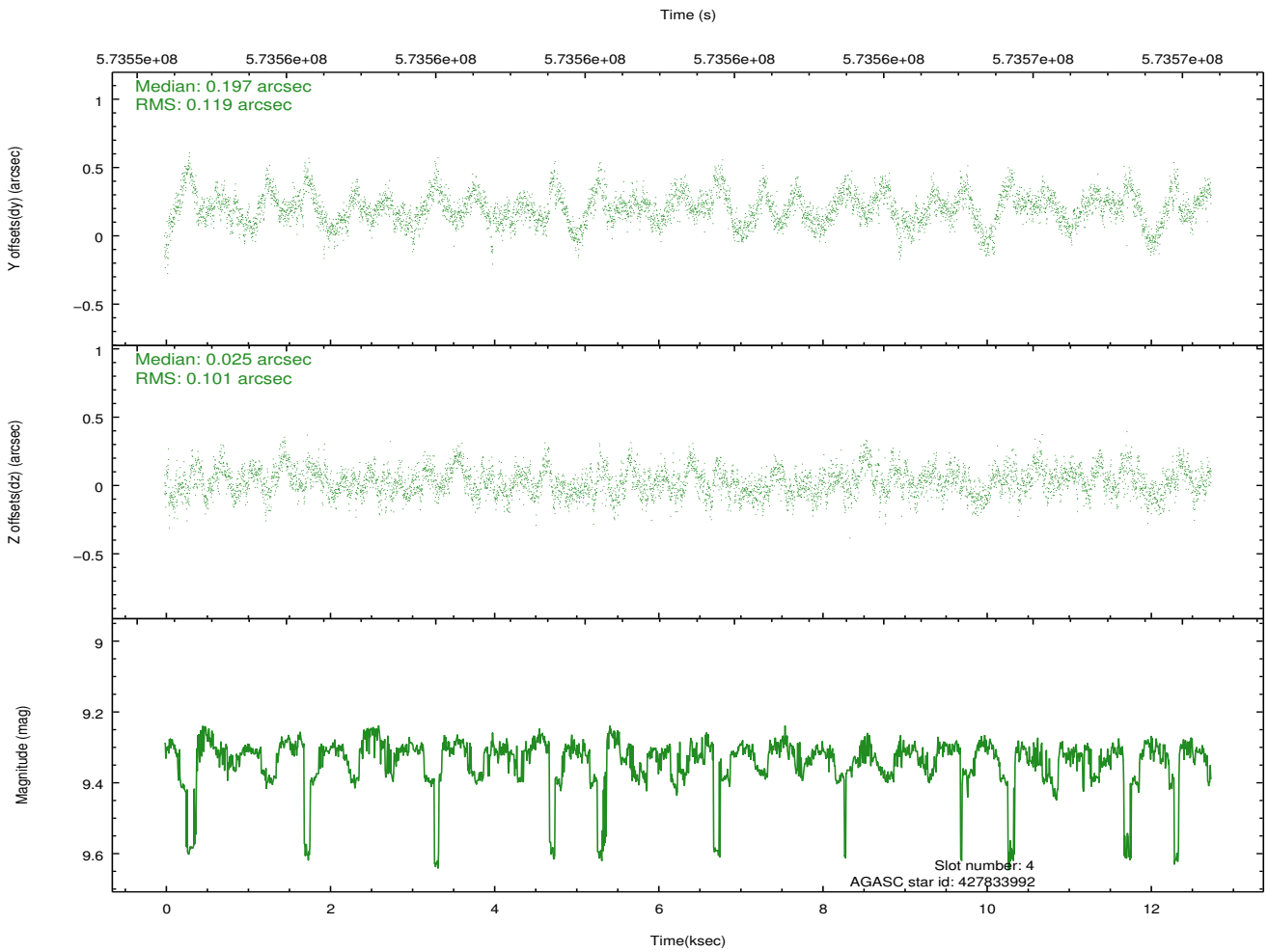
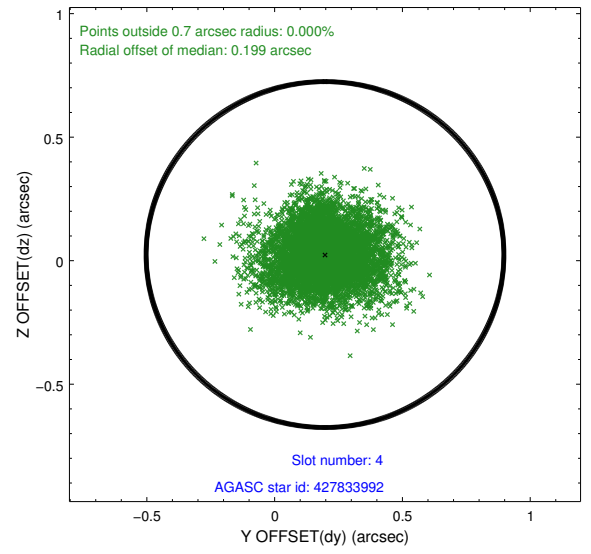
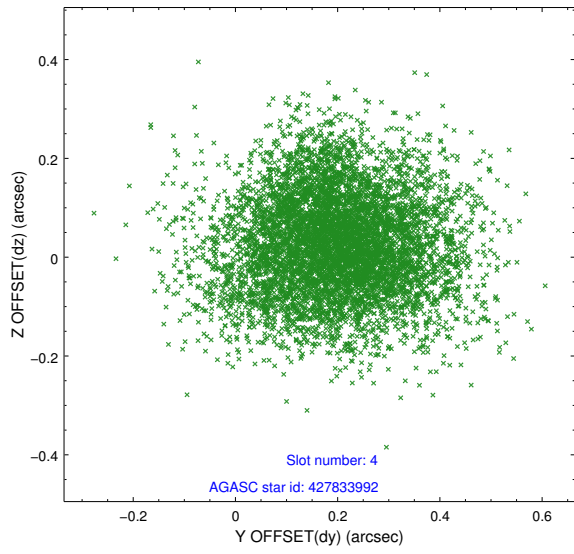
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	3110	-0.306	-0.122	0.013	0.028	0.000000	0.000000	-780.40	-1747.82
1	FID		ACIS-S-4	7.21	3110	0.694	0.181	0.024	0.051	0.000000	0.000000	2133.61	160.72
2	FID		ACIS-S-5	7.25	3110	-0.422	-0.050	0.020	0.029	0.000000	0.000000	-1832.97	154.39
3	GUIDE	used	427825480	9.24	6213	0.281	0.459	0.166	0.267	18.671409	45.750626	-1860.52	-862.66
4	GUIDE	used	427833992	9.32	6202	0.197	0.025	0.165	0.273	19.364339	46.257848	-1662.79	1646.27
5	GUIDE	used	427834568	9.17	6208	-0.169	-0.037	0.235	0.401	19.616455	46.128830	-882.75	1685.43
6	GUIDE	used	427959776	9.13	6214	0.157	-0.155	0.145	0.231	20.063616	45.089317	2370.09	-481.93
7	GUIDE	used	427962576	8.90	6215	-0.460	-0.287	0.136	0.217	20.110720	46.025055	306.94	2183.58

## 2.4 Star Slots

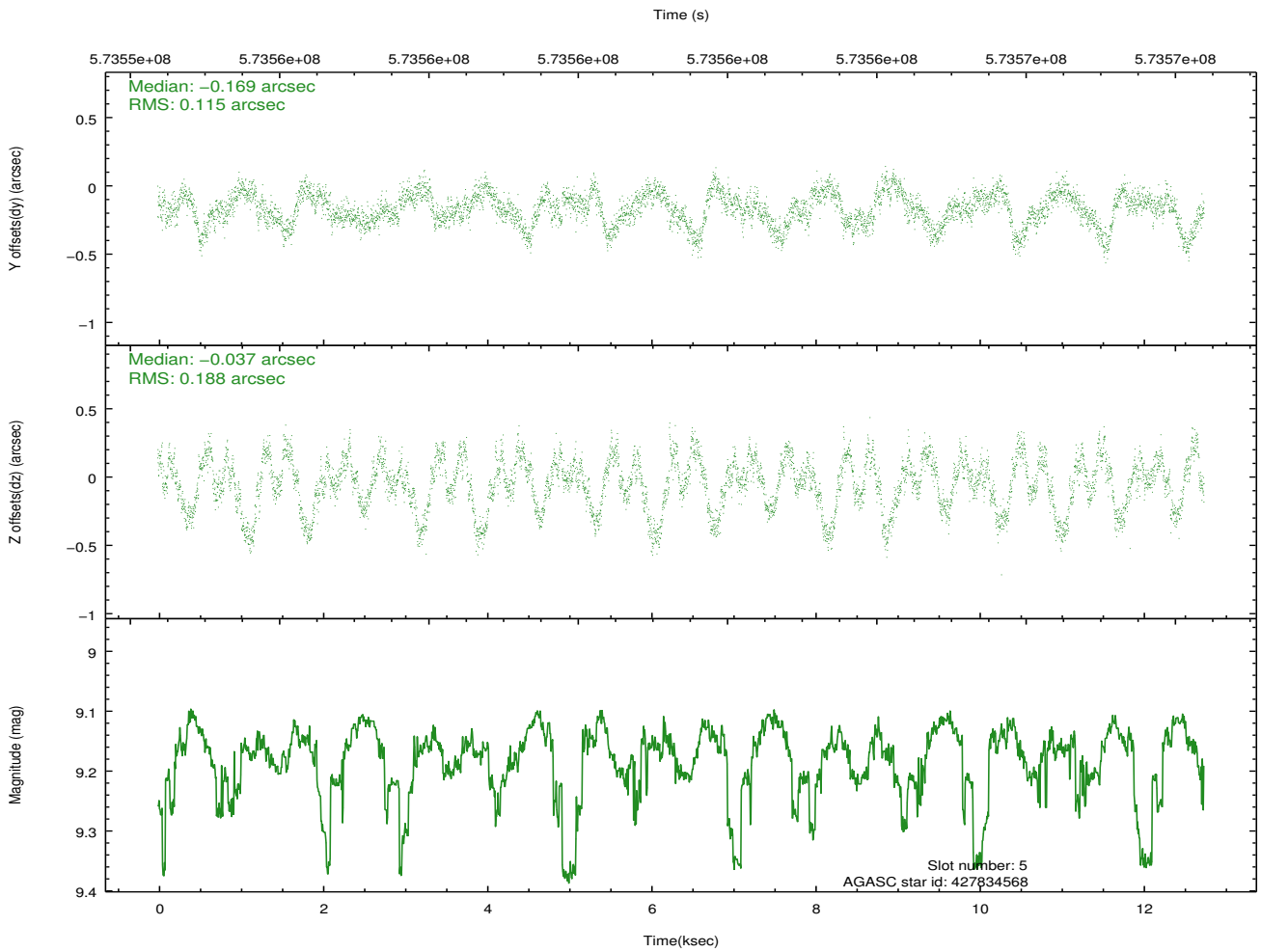
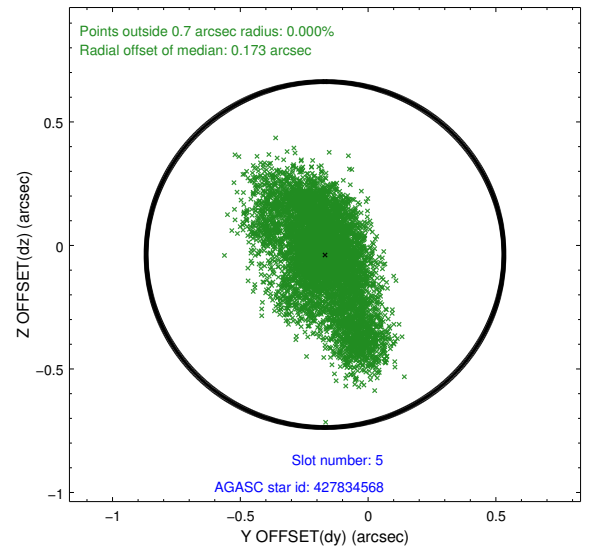
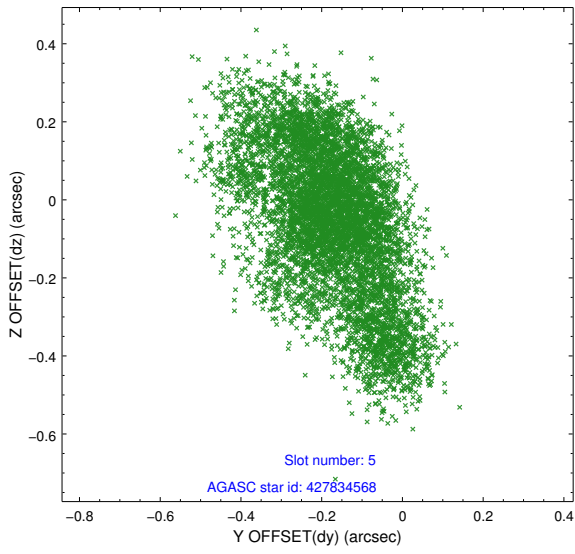
### 2.4.1 Slot 3



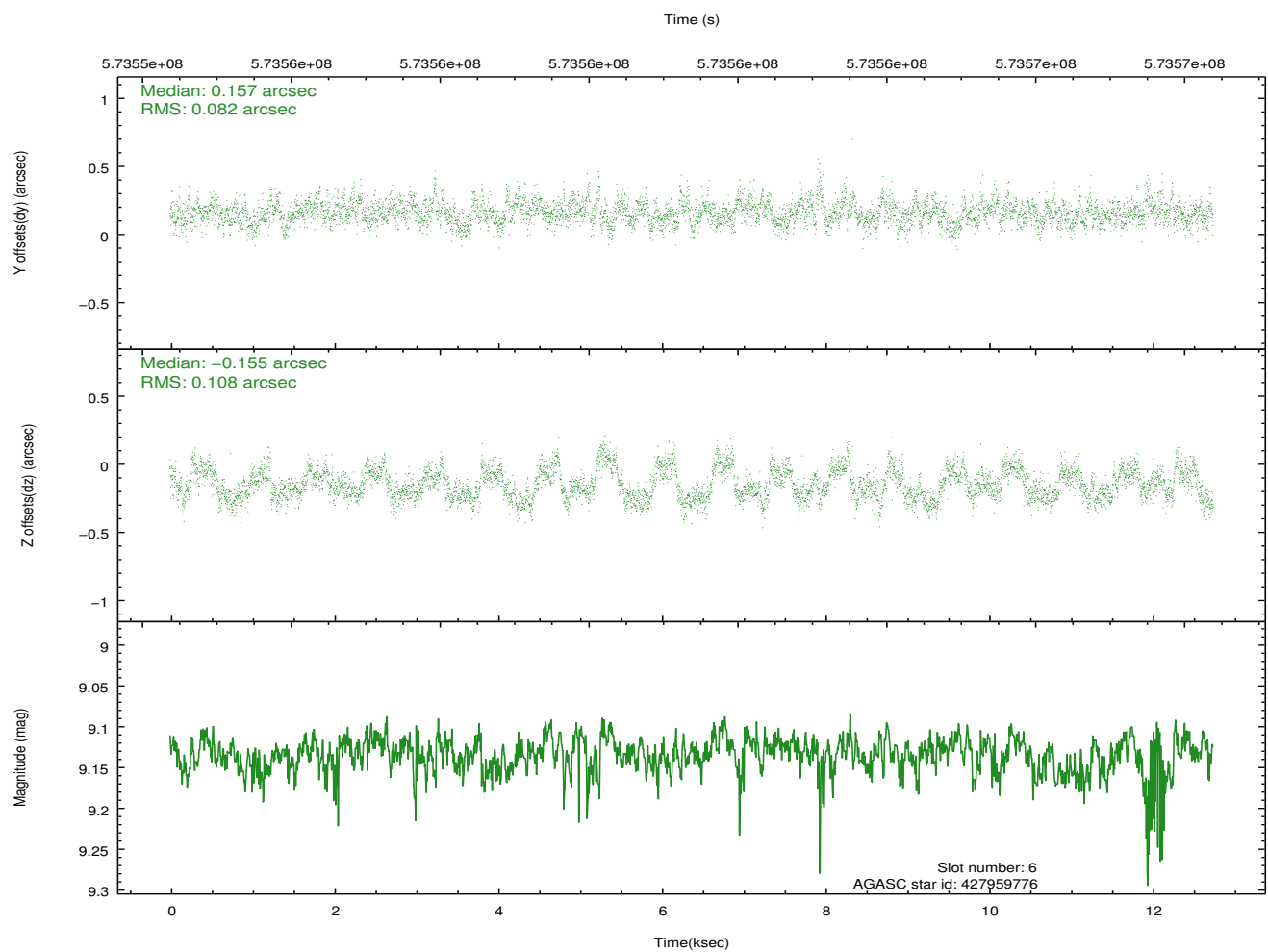
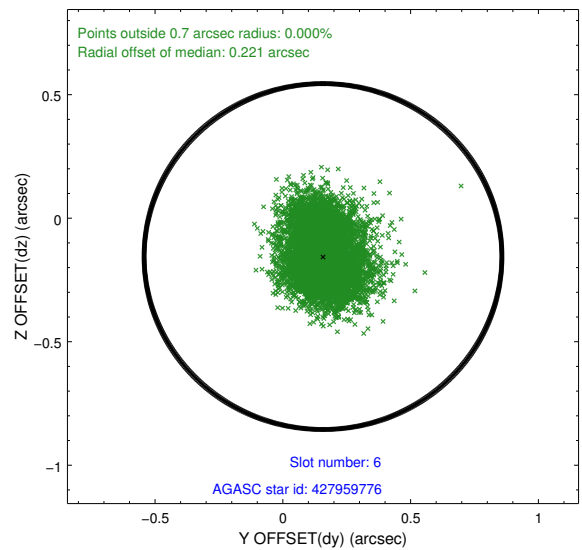
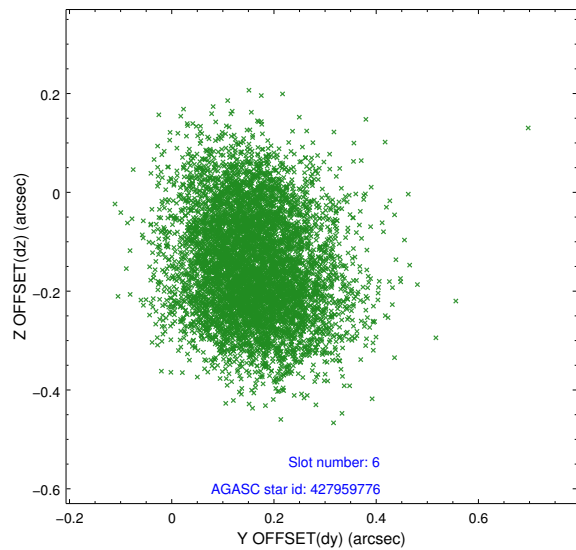
## 2.4.2 Slot 4



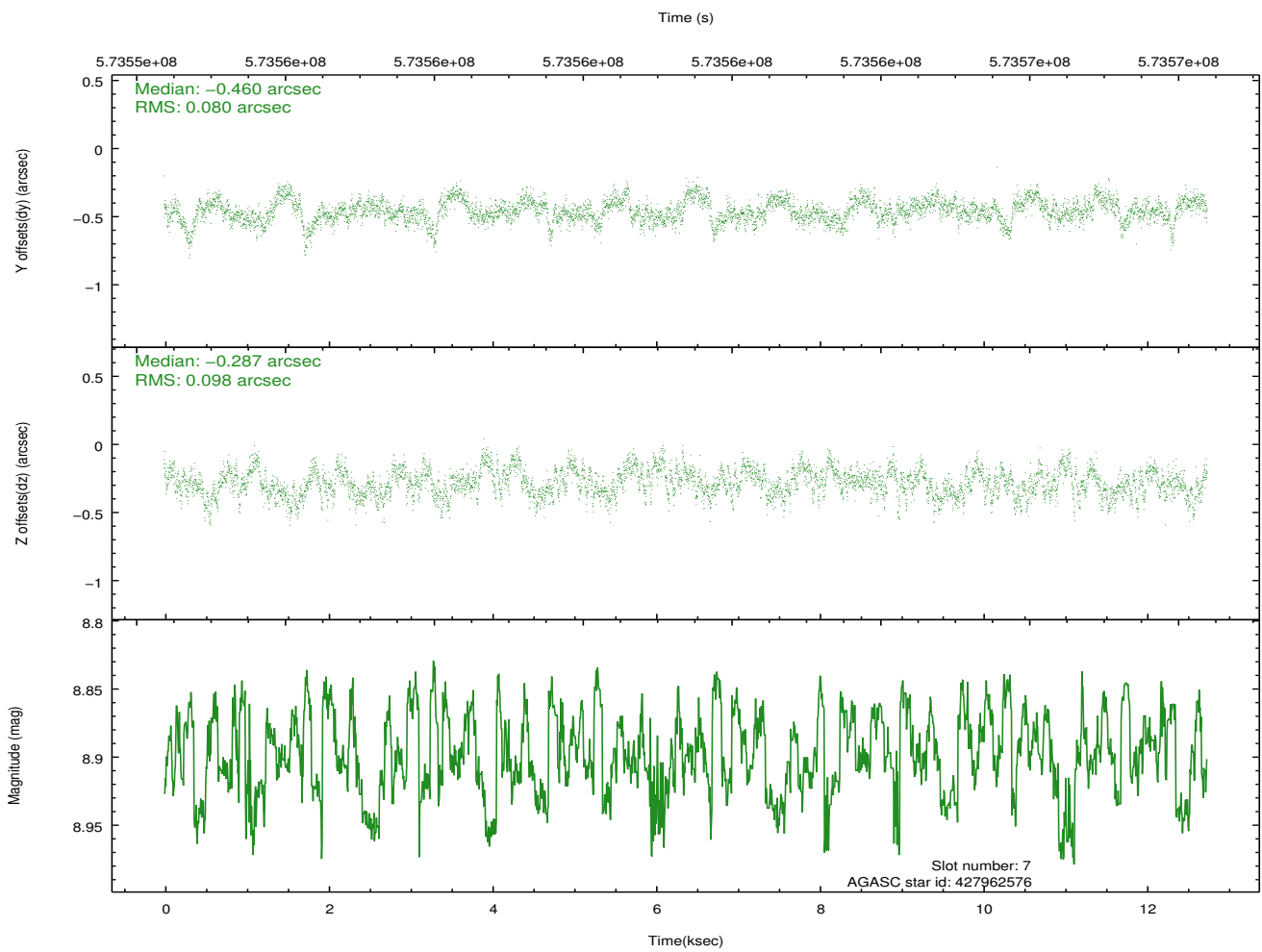
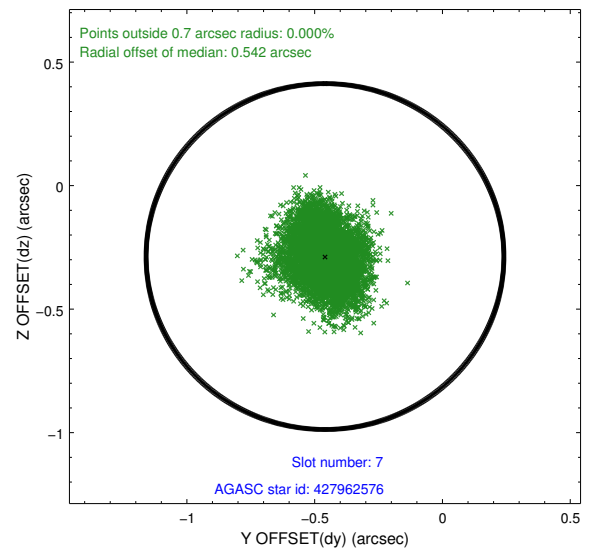
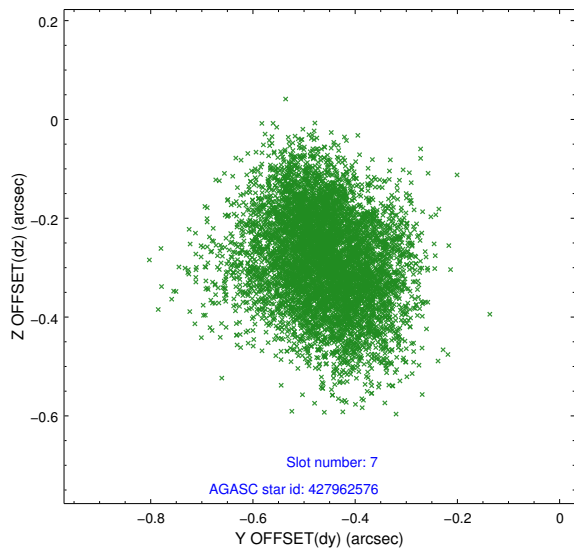
### 2.4.3 Slot 5



## 2.4.4 Slot 6

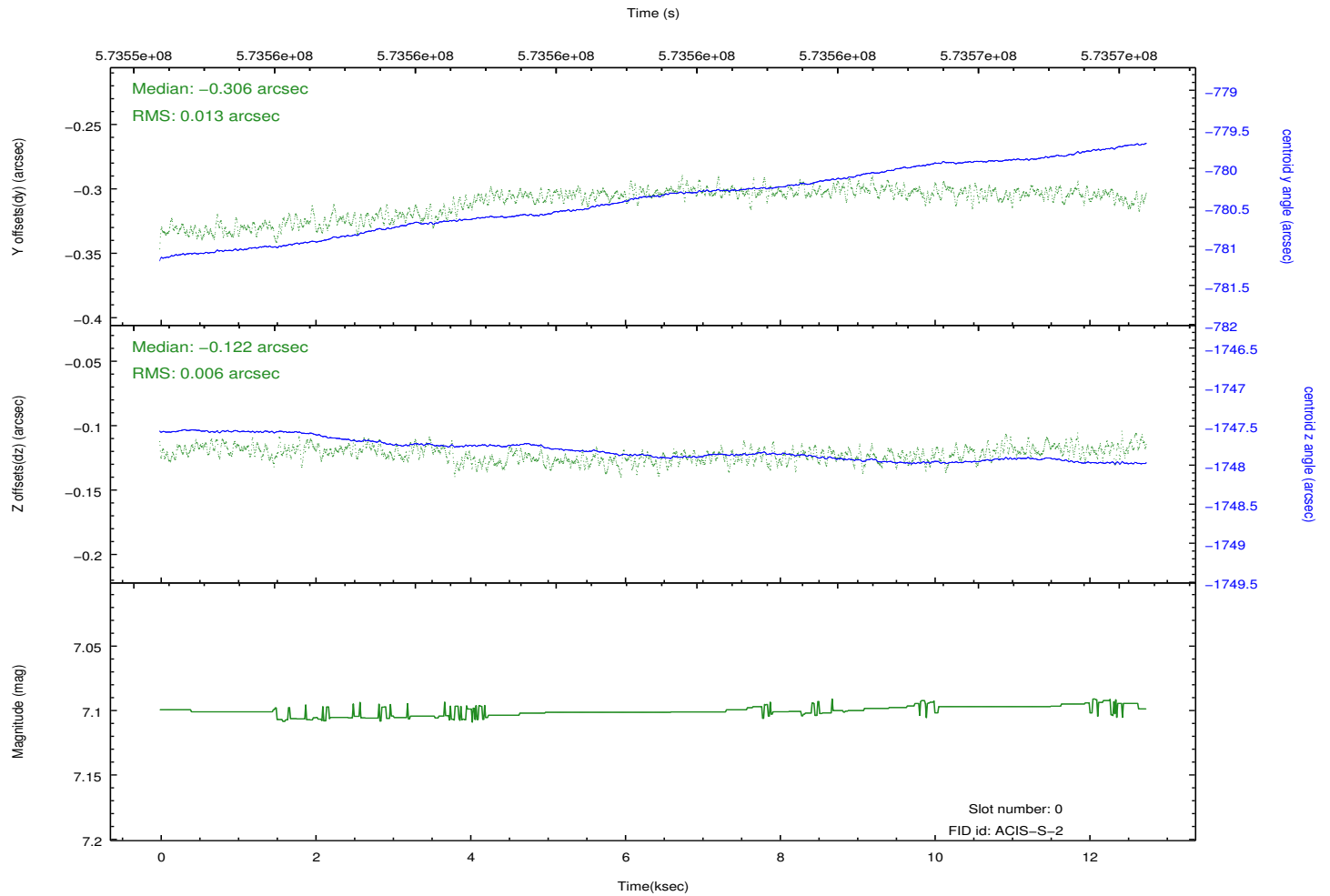
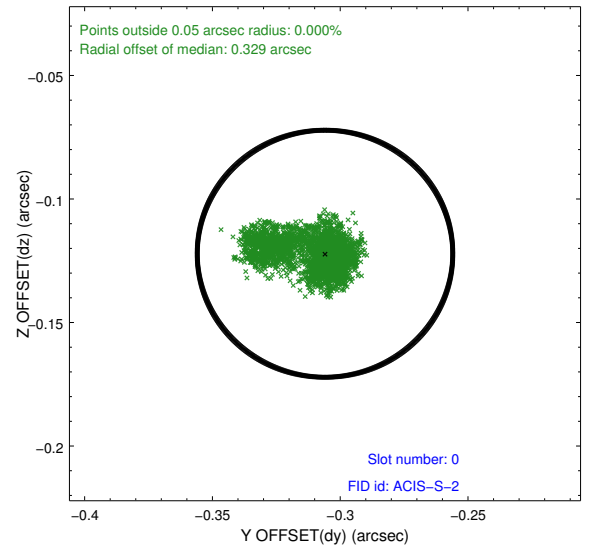
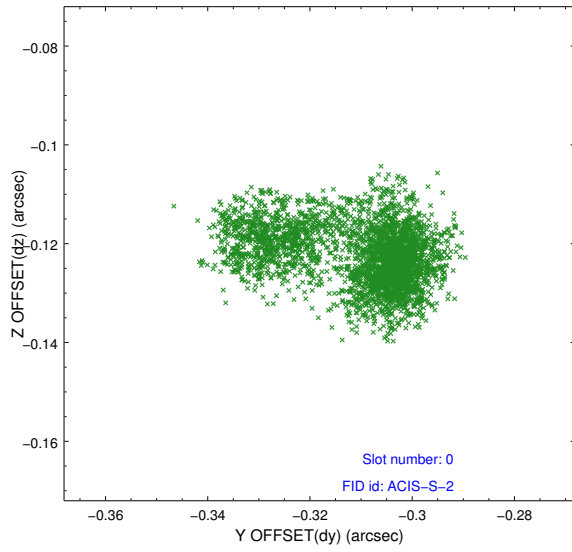


## 2.4.5 Slot 7

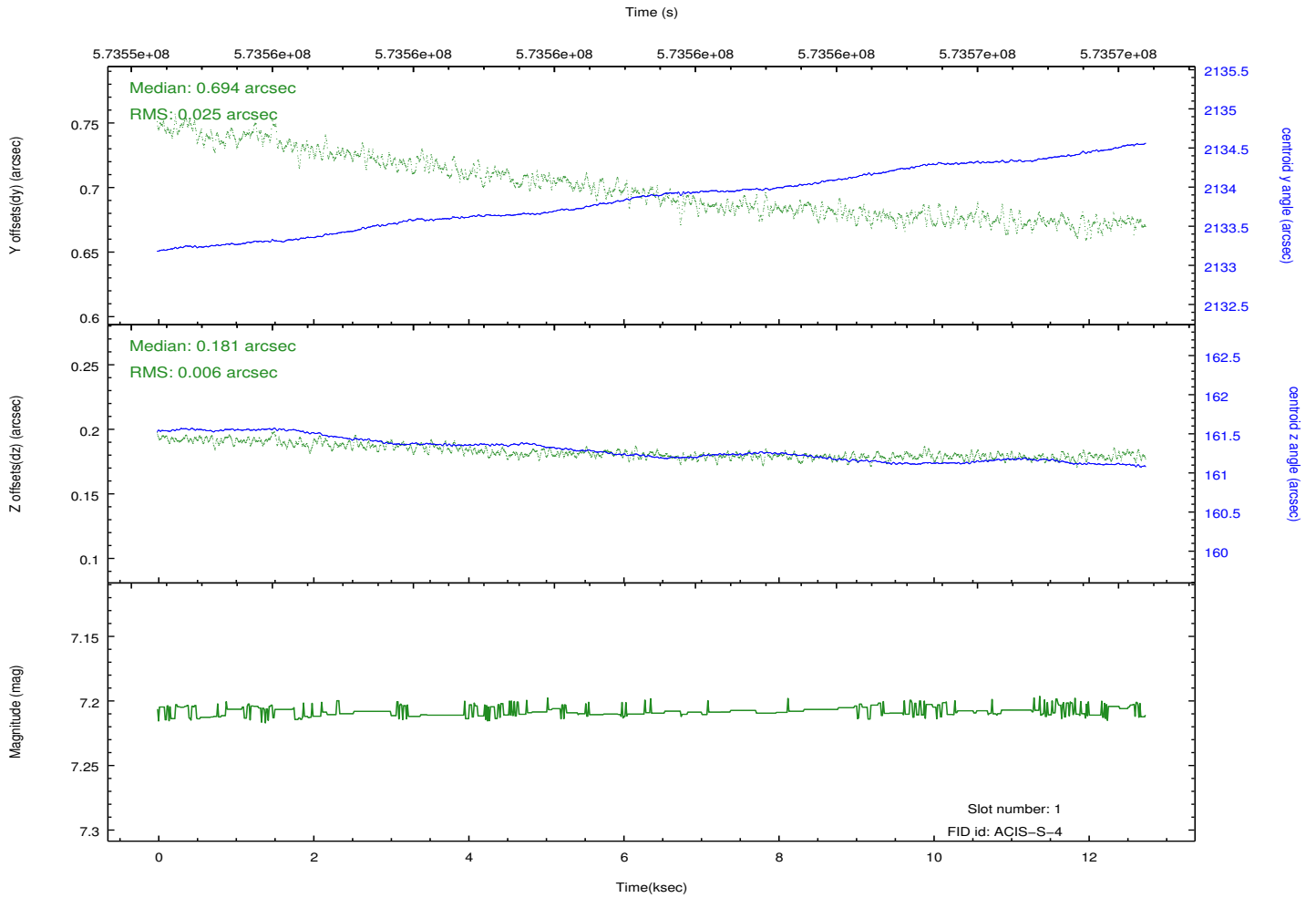
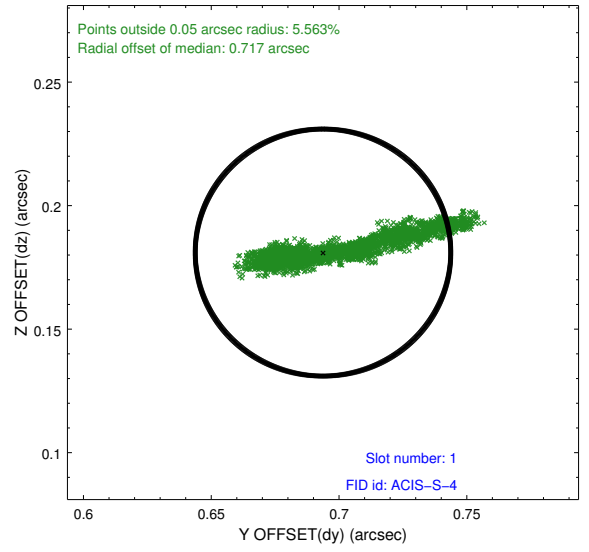
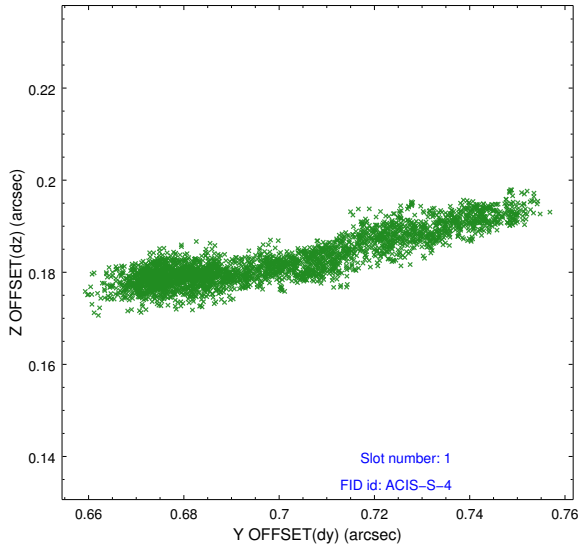


## 2.5 FID Slots

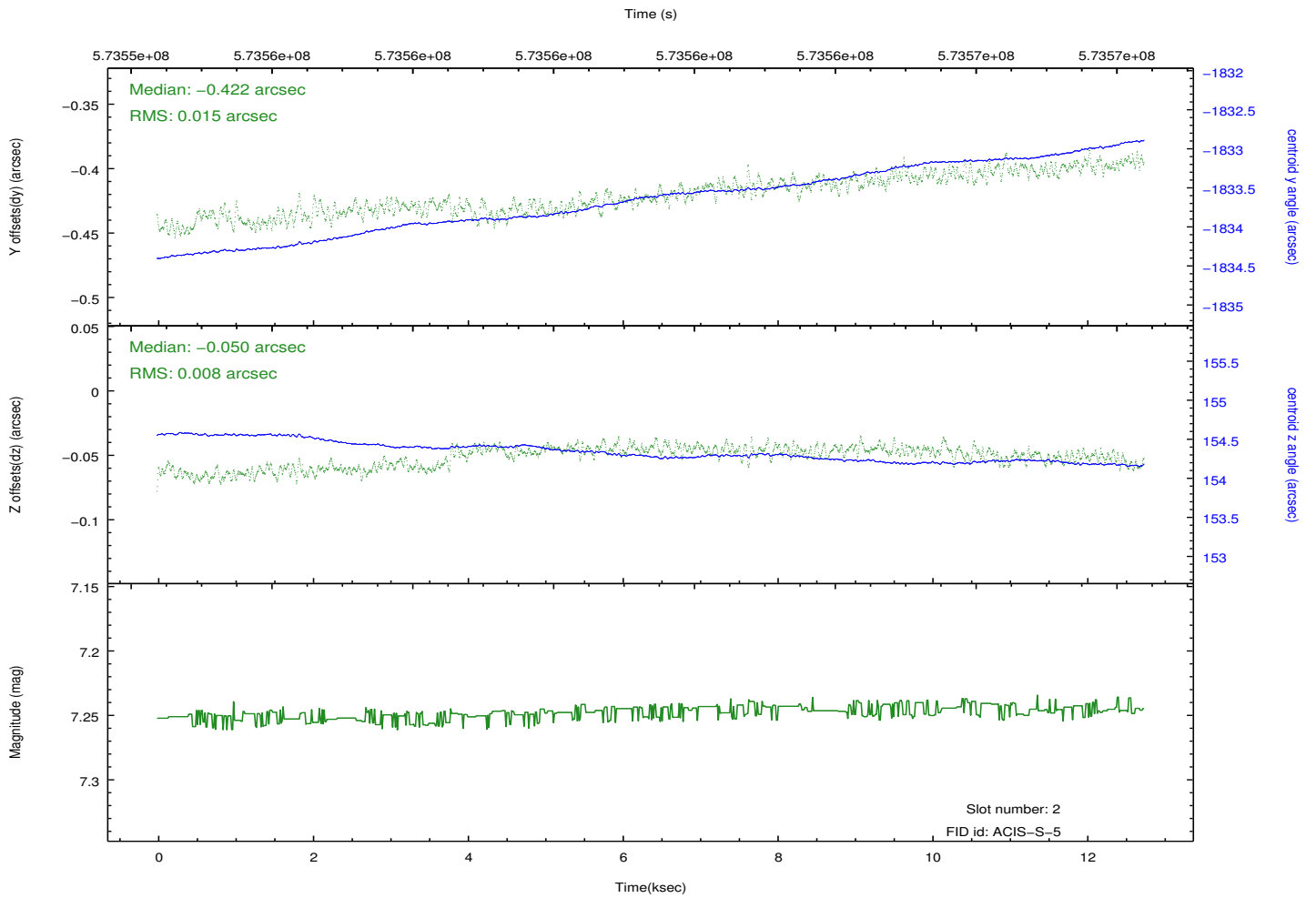
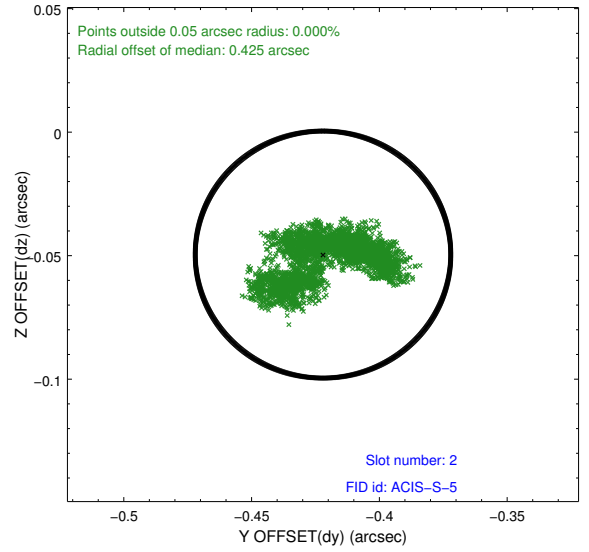
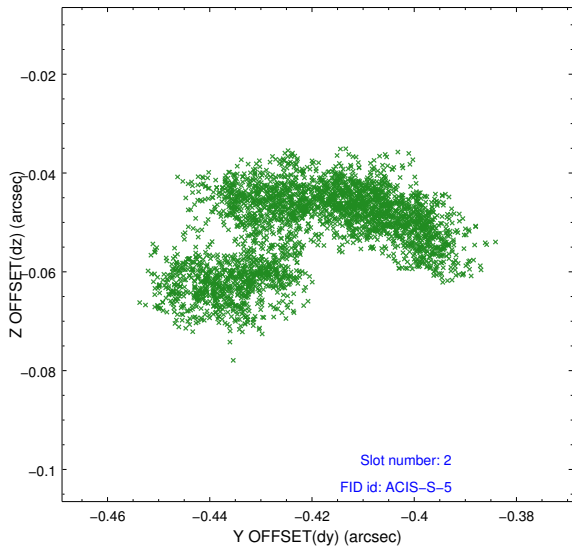
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.03.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.071400092959

## A.2 Comments