

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13262 - L2 Version 2  
Chandra X-Ray Center

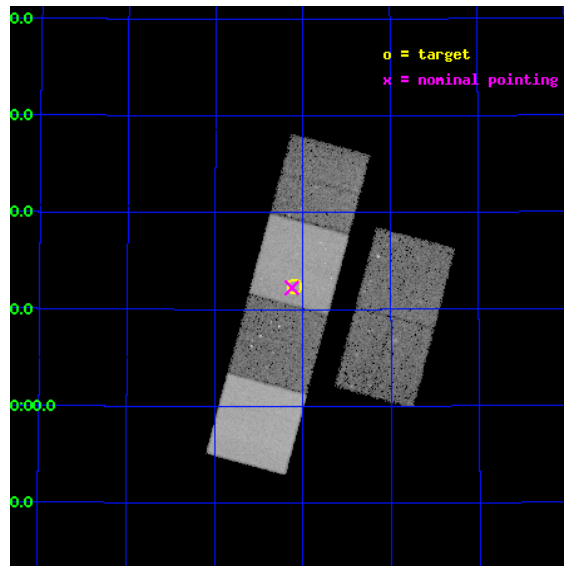
L2 Processing Date : Feb 12 2012

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# 1 Front

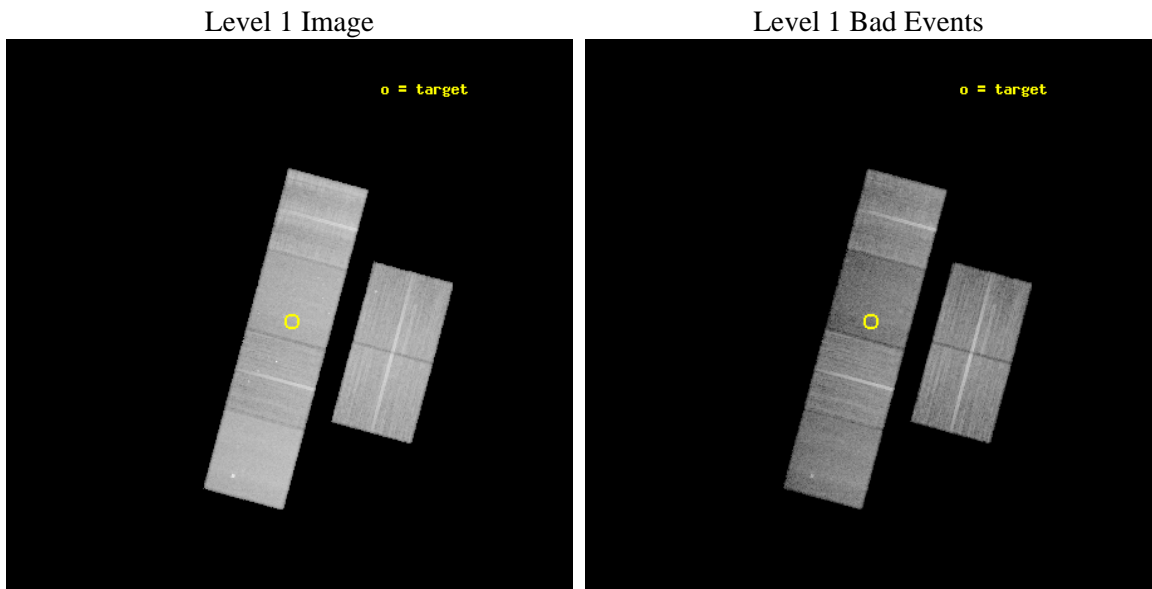
seq_num	501552	Sequence number
obs_id	13262	Observation id
title	SEARCH FOR JET BREAKS IN LONG GRB X-RAY AFTERGLOWS	Proposal title
observer	Prof. David Burrows	Principal investigator
object	GRB 110503A	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	132.77598	Observer's specified target RA [deg]
dec_targ	52.20753	Observer's specified target Dec [deg]
ra_nom	132.78172003205	Nominal RA [deg]
dec_nom	52.204206360312	Nominal Dec [deg]
roll_nom	285.06447017312	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29823.999888957	Sum of GTIs [s]
livetime	29446.350444506	Livetime [s]
ontime2	29817.517928243	Sum of GTIs [s]
ontime3	29814.276977837	Sum of GTIs [s]
ontime5	29823.999888957	Sum of GTIs [s]
ontime6	29823.999888957	Sum of GTIs [s]
ontime7	29823.999888957	Sum of GTIs [s]
ontime8	29823.999888957	Sum of GTIs [s]
l2events	287469	Number of level 2 events



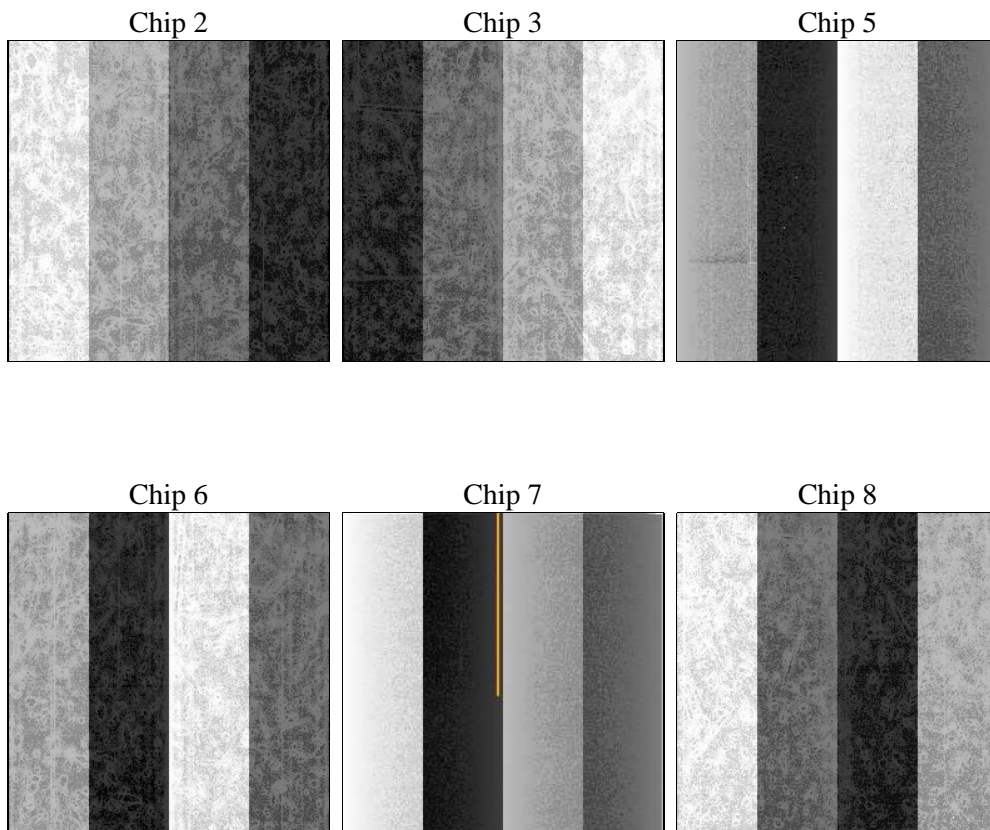
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	29772.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	29823.999888957	Sum of GTIs [s]
caldsver	4.4.7	&#160	ontime2	29817.517928243	Sum of GTIs [s]
date	2012-02-12T11:31:00	Date and time of file creation	ontime3	29814.276977837	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	29823.999888957	Sum of GTIs [s]
			ontime6	29823.999888957	Sum of GTIs [s]
			ontime7	29823.999888957	Sum of GTIs [s]
			ontime8	29823.999888957	Sum of GTIs [s]
			l1events	1191470	Number of level 1 events

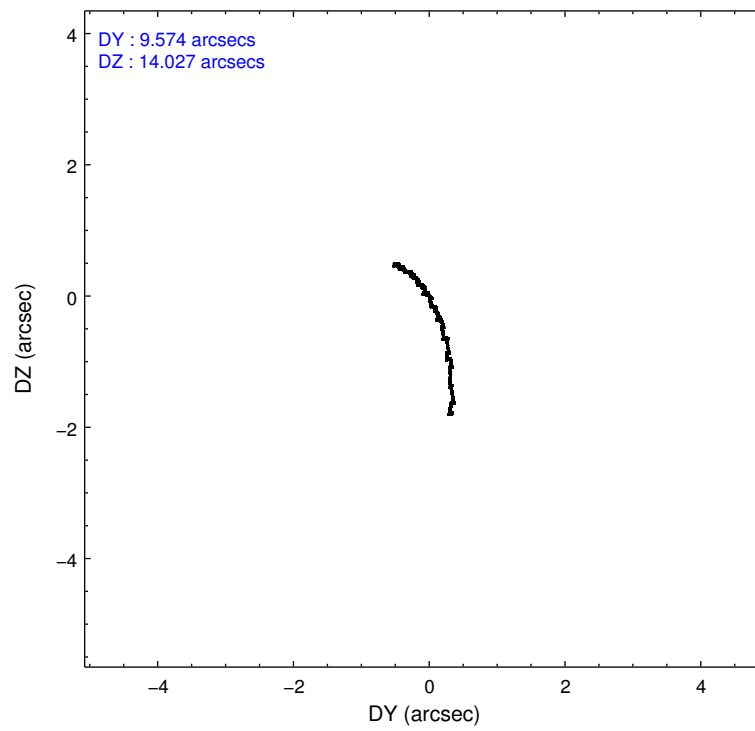
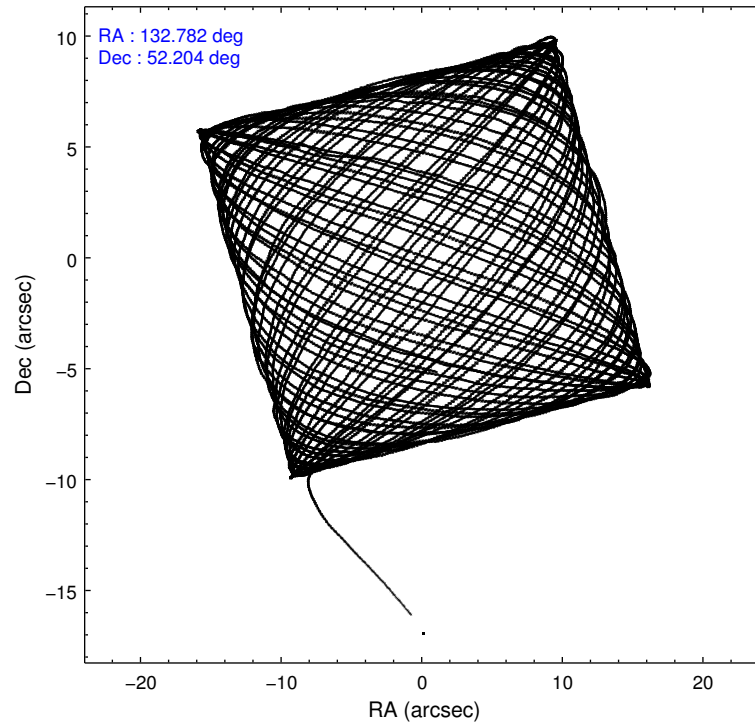
### 2.1.4 Events

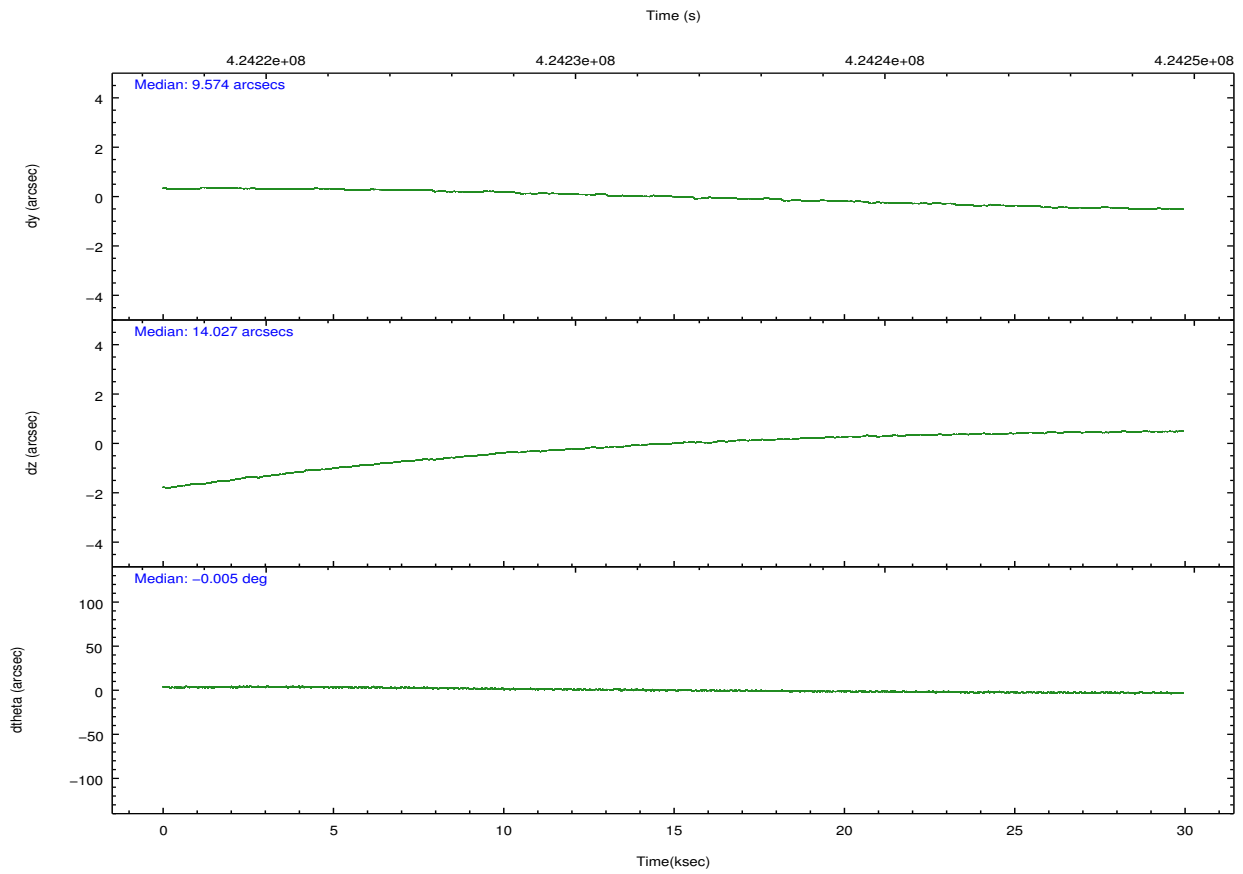
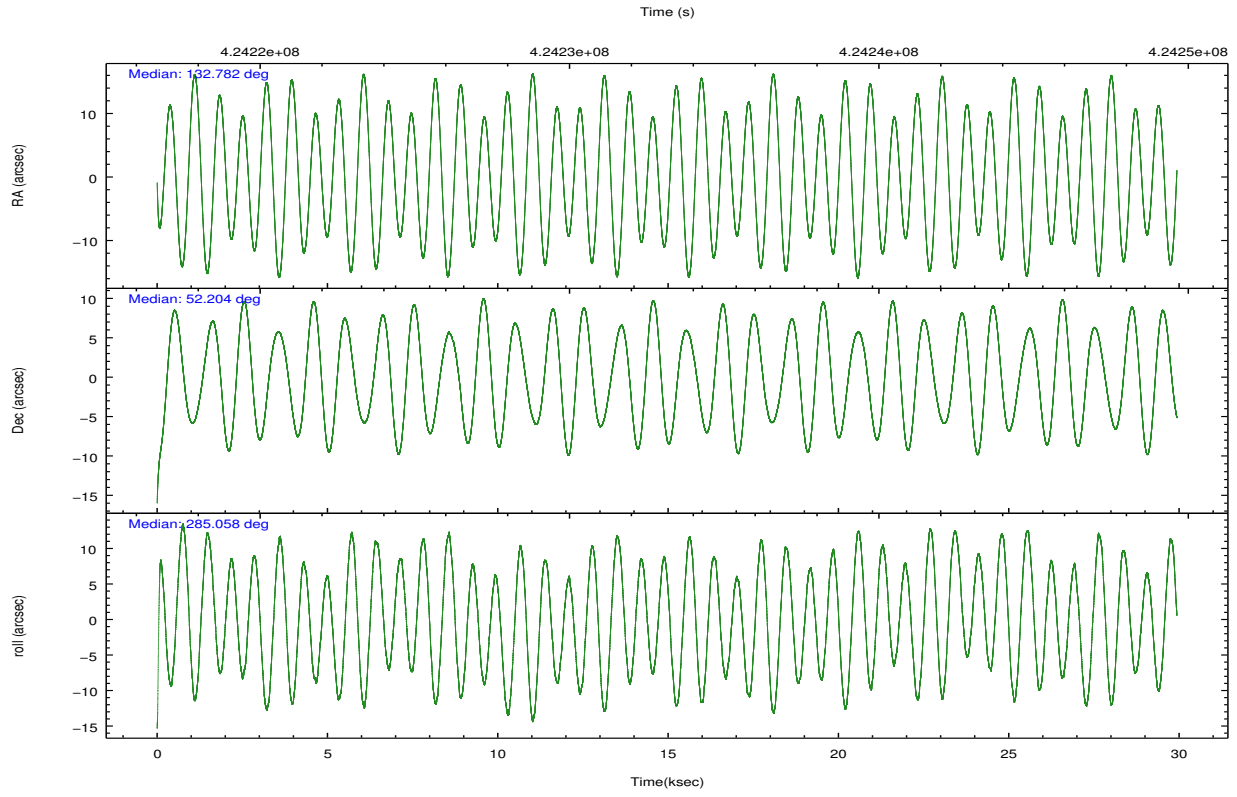
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	186636	170451	245402	177136	190290	221555	grade 0 events	7457	7350	10323	8582	9707	17995
rejected events	166813	151018	117554	155155	96450	158213		3%	4%	4%	4%	5%	8%
rejected %	89%	88%	47%	87%	50%	71%	grade 1 events	131	103	935	120	282	183
								0%	0%	0%	0%	0%	0%
							grade 2 events	4920	4289	40208	4805	20221	14964
								2%	2%	16%	2%	10%	6%
							grade 3 events	1923	2036	5310	2134	8432	6897
								1%	1%	2%	1%	4%	3%
							grade 4 events	1999	1978	5259	2036	8260	6500
								1%	1%	2%	1%	4%	2%
							grade 5 events	5961	6932	19486	6855	20251	10761
								3%	4%	7%	3%	10%	4%
							grade 6 events	3527	3785	66784	4426	47243	16994
								1%	2%	27%	2%	24%	7%
							grade 7 events	160718	143978	97097	148178	75894	147261
								86%	84%	39%	83%	39%	66%

## 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	132.749727	132.7817200320519	CCD I2 on	O2	Y
[deg] Pointing Dec	52.223254	52.20420636031155	CCD I3 on	O3	Y
[deg] Pointing Roll	284.933137	285.0644701731243	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	O4	Y
[s] Observation start time (MET)	424218340.184000	424216992.68516	CCD S5 on	N	N
Observation start date	2011-06-11T22:24:34	2011-06-11T22:03:12	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	424248112.184000	424248748.21181	On-chip summing requested	N	N
Observation end date	2011-06-12T06:40:46	2011-06-12T06:52:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



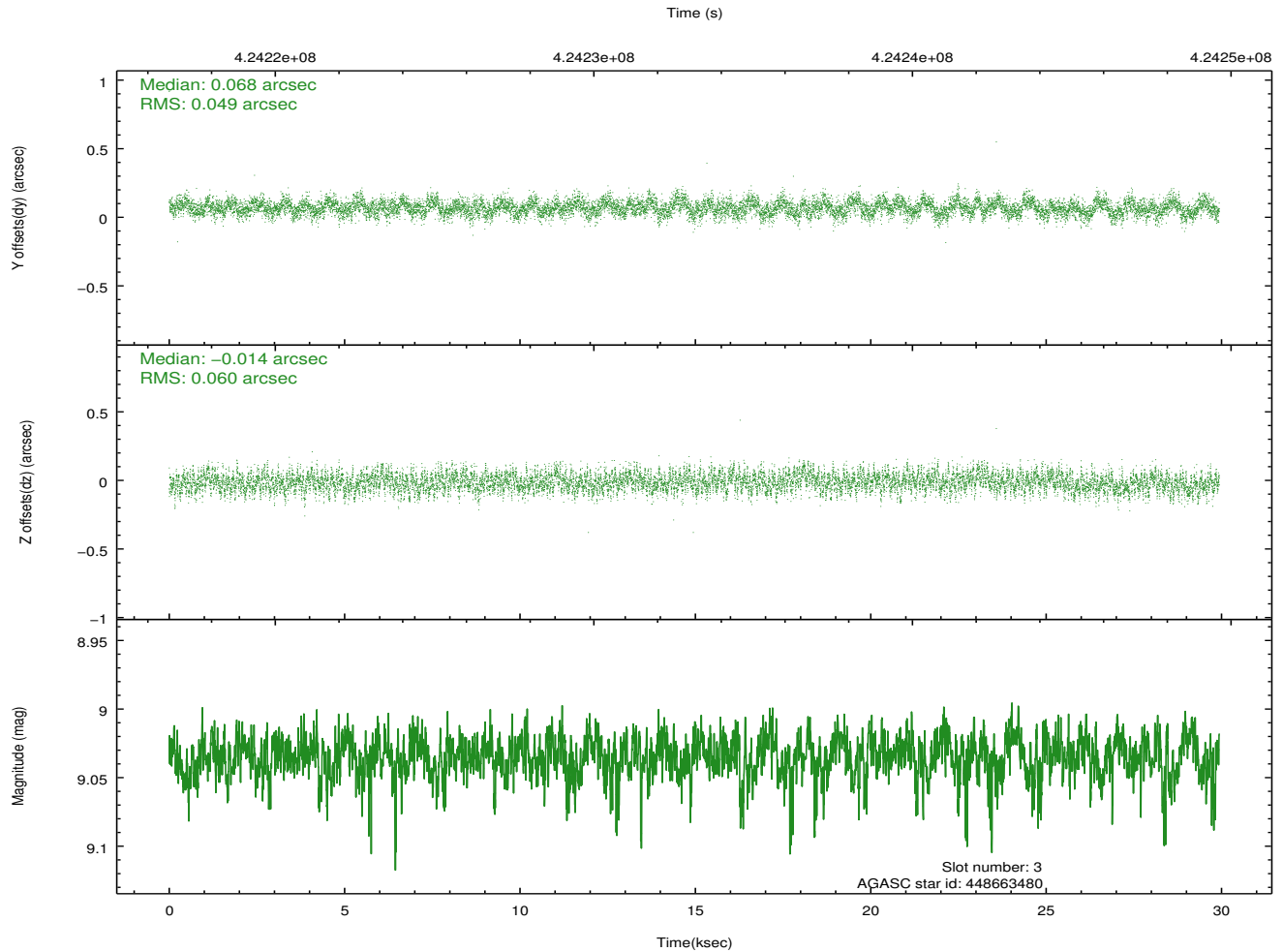
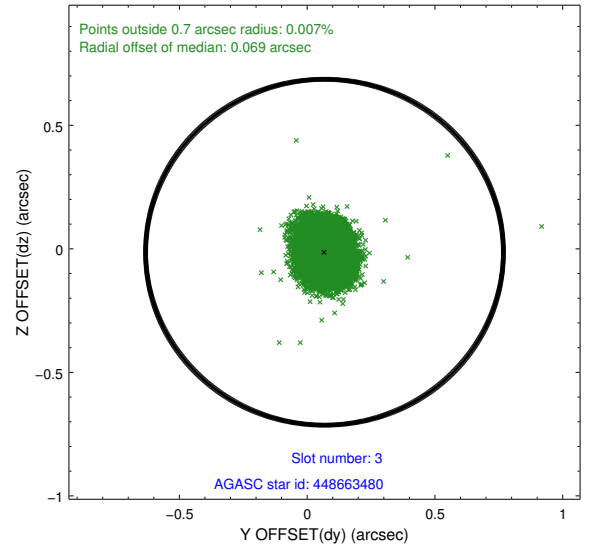
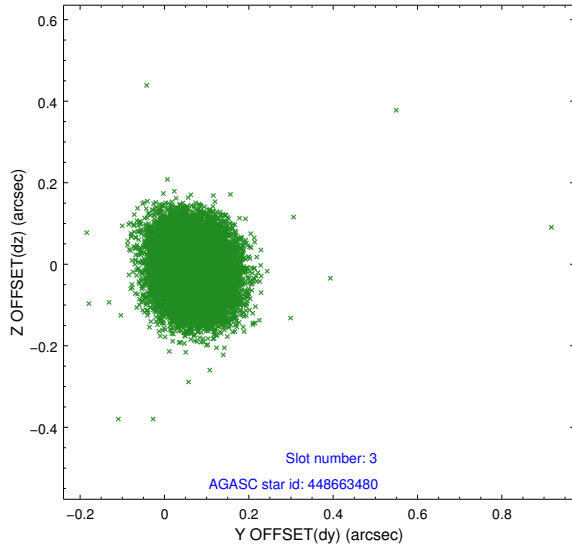


### Slot Statistics

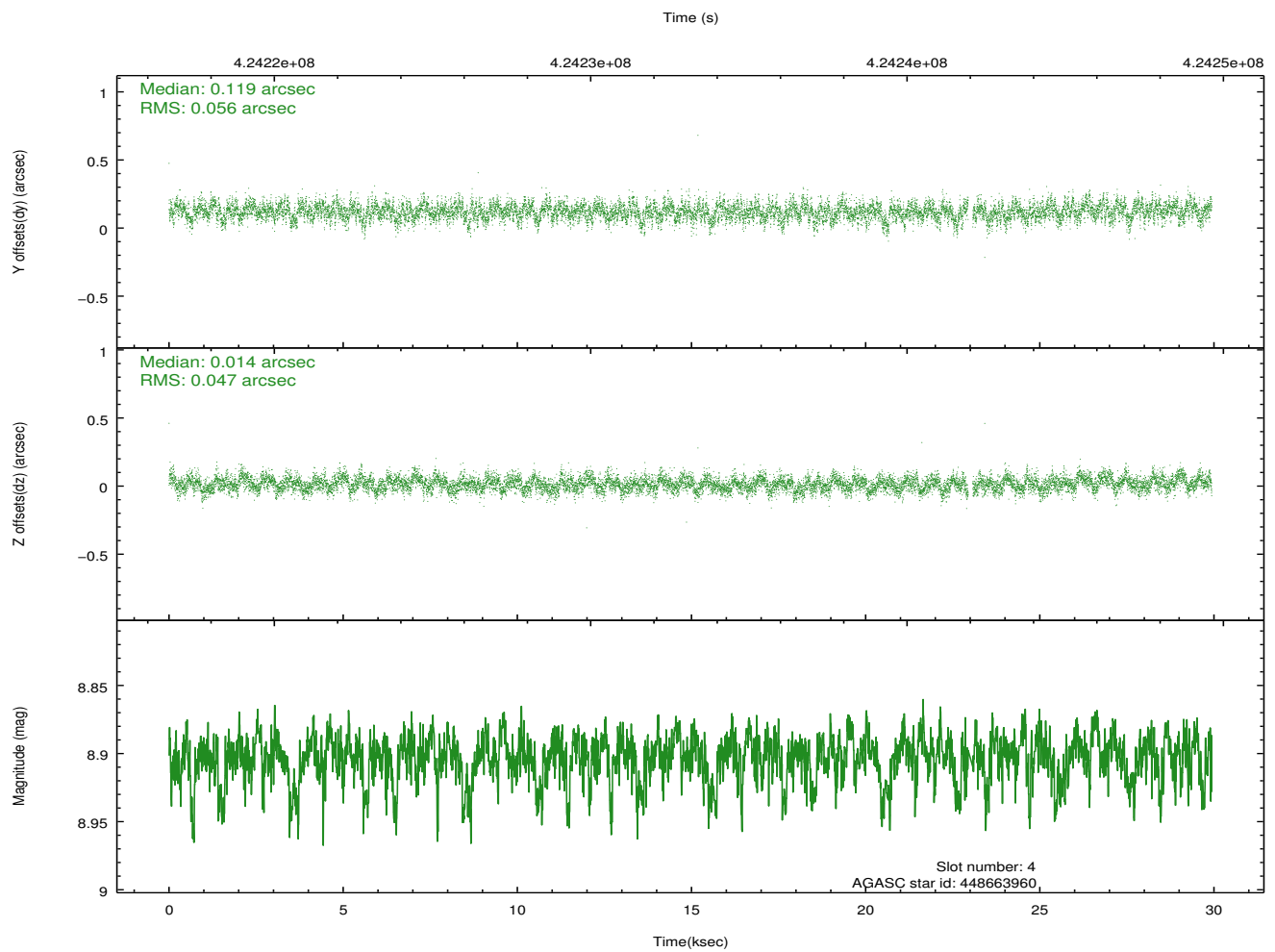
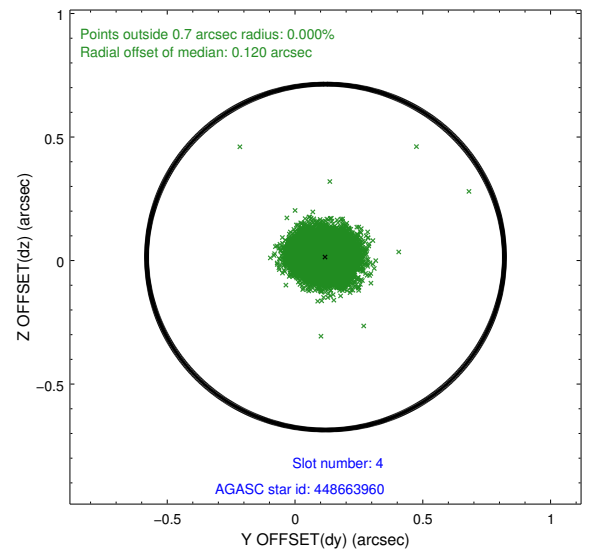
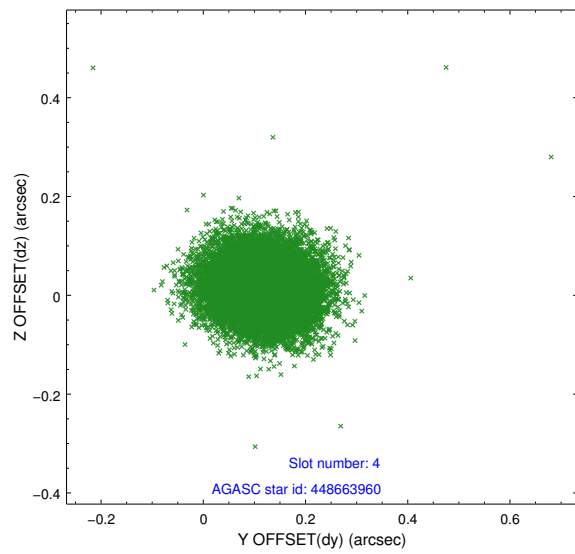
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.05	7302	0.063	-0.013	0.017	0.047	0.000000	0.000000	933.72	-1730.70
1	FID	ACIS-S-5	7.09	7302	-0.145	0.039	0.009	0.015	0.000000	0.000000	-1815.42	166.87
2	FID	ACIS-S-6	7.19	7302	0.061	-0.013	0.015	0.040	0.000000	0.000000	399.22	810.84
3	GUIDE	448663480	9.03	14595	0.068	-0.014	0.082	0.134	132.001095	52.125973	-95.56	-1686.67
4	GUIDE	448663960	8.90	14529	0.119	0.014	0.077	0.126	133.951795	51.786461	2187.98	2187.42
5	GUIDE	448664040	7.09	14603	-0.050	-0.045	0.063	0.102	133.275408	52.390235	-287.55	1271.94
6	GUIDE	448668936	8.61	14597	-0.080	0.019	0.081	0.141	132.505246	51.657648	1826.22	-1051.66
7	GUIDE	498740032	9.20	14588	-0.066	0.027	0.095	0.159	133.451823	52.890932	-1936.52	2094.58

## 2.4 Star Slots

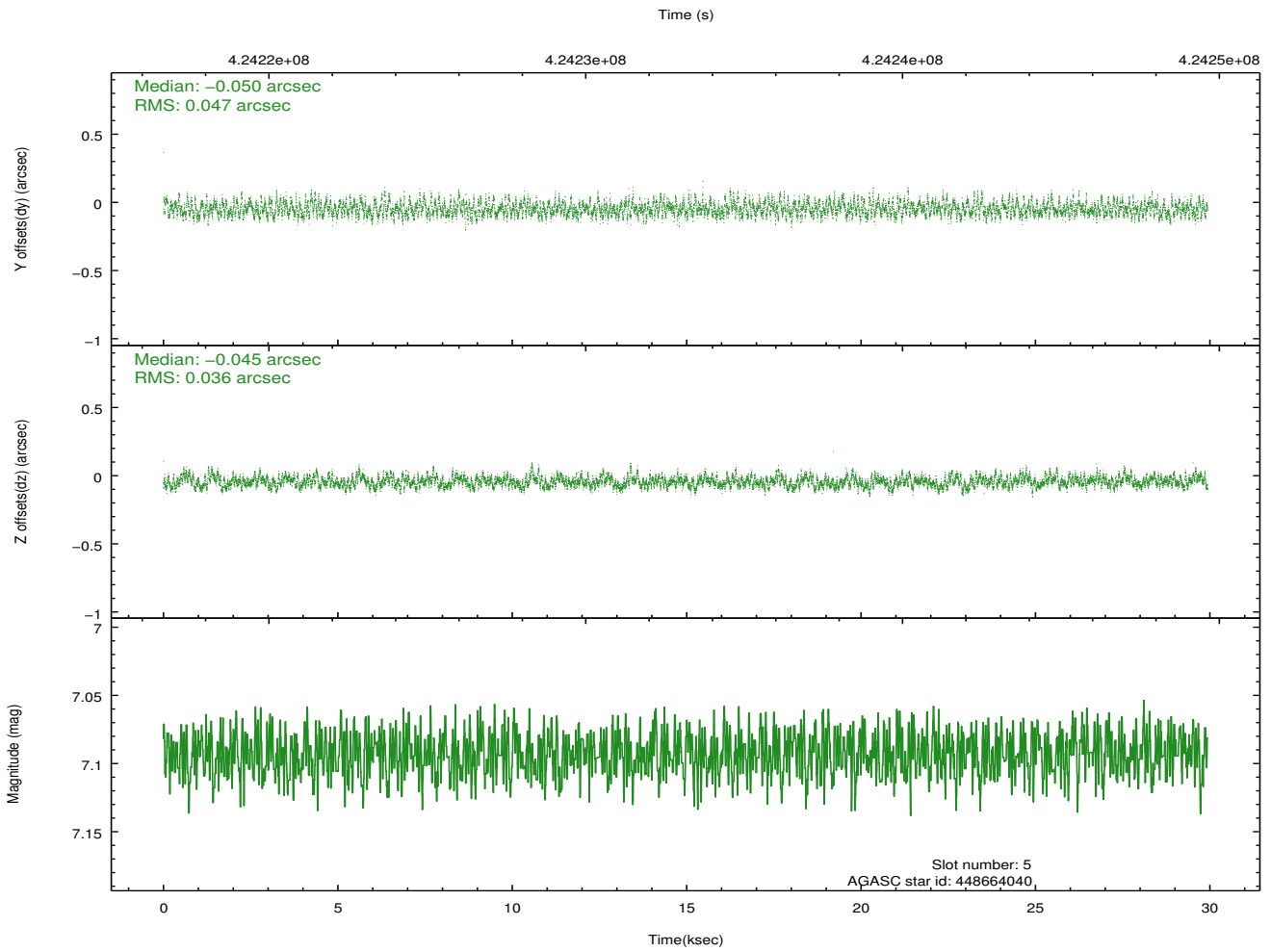
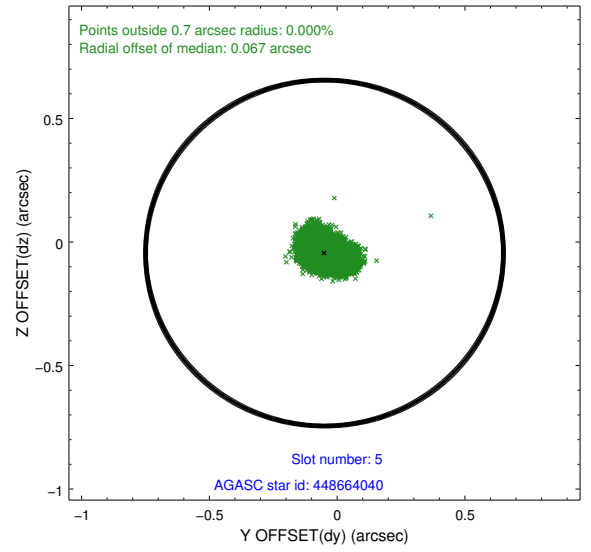
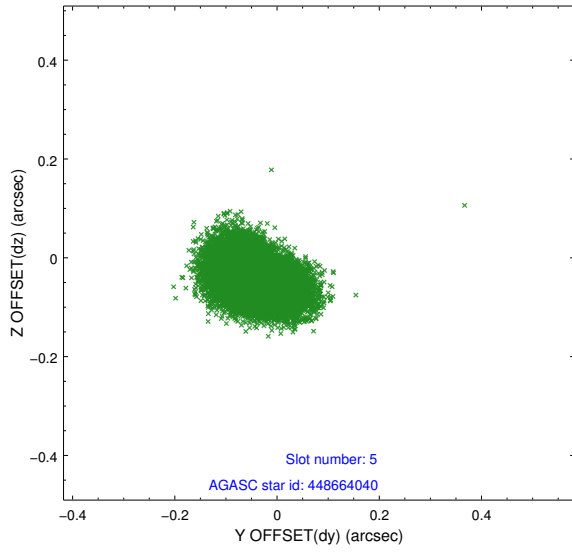
### 2.4.1 Slot 3



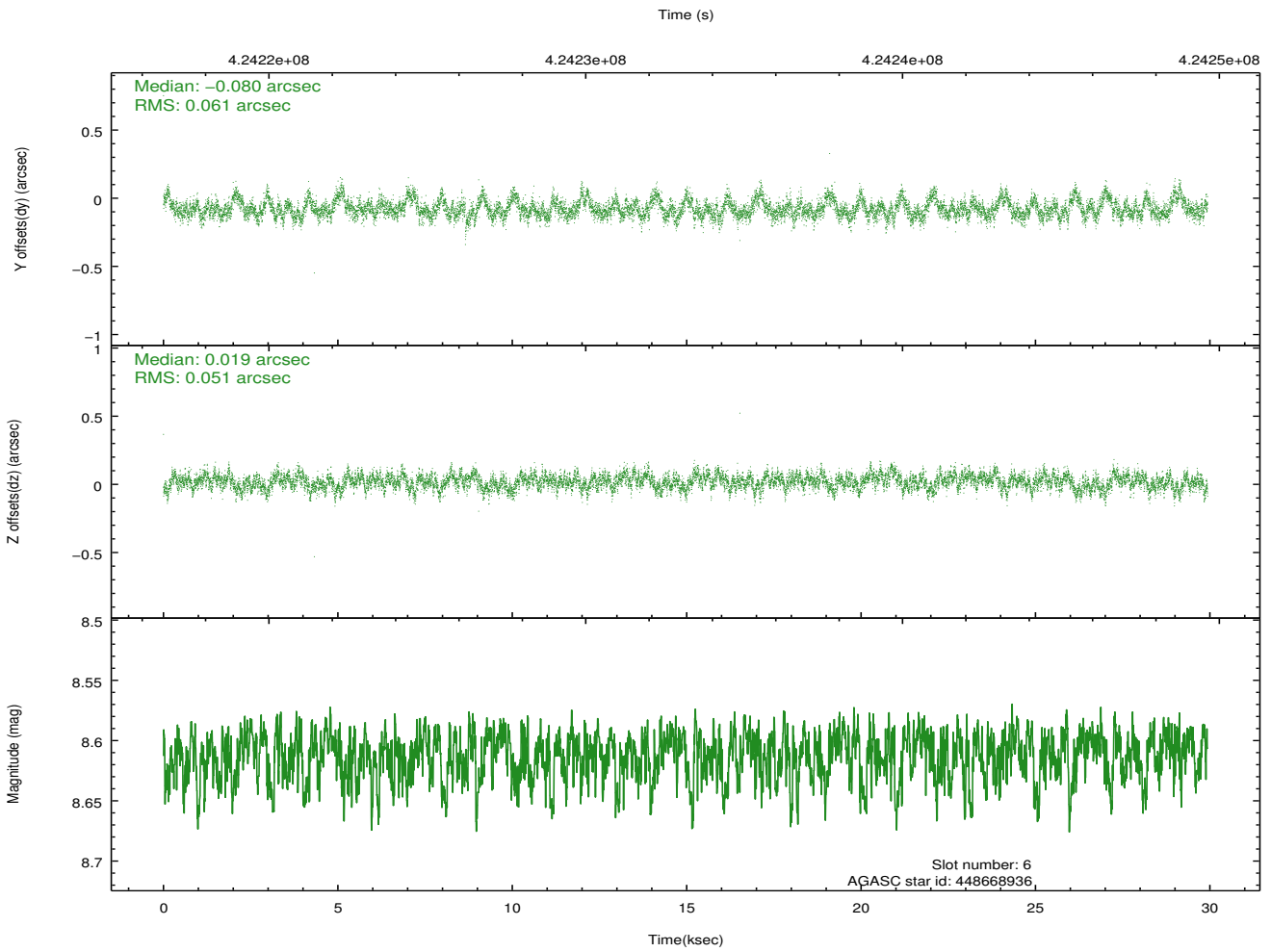
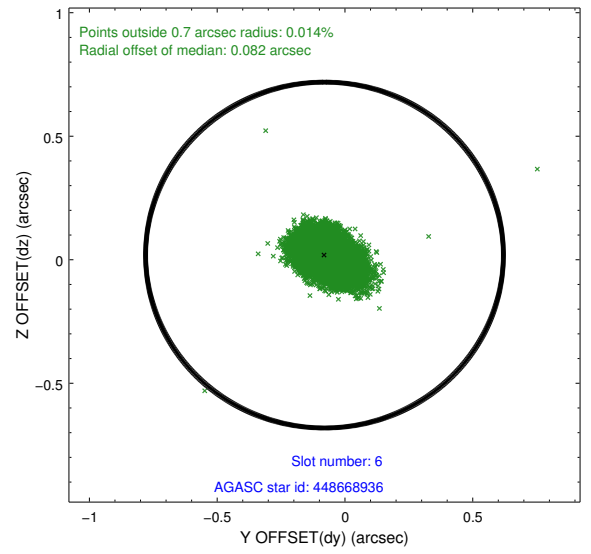
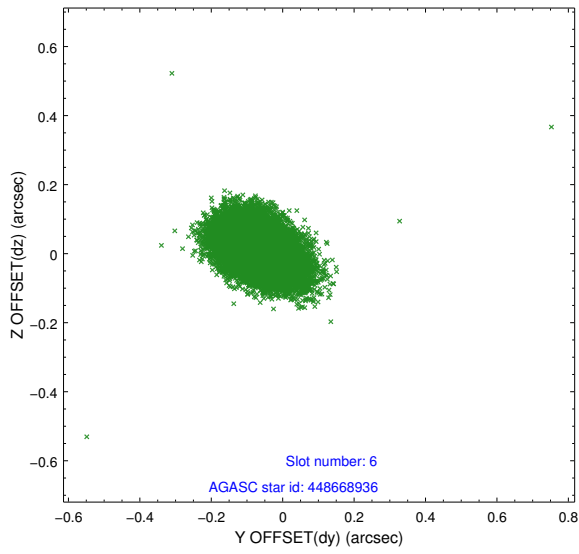
## 2.4.2 Slot 4



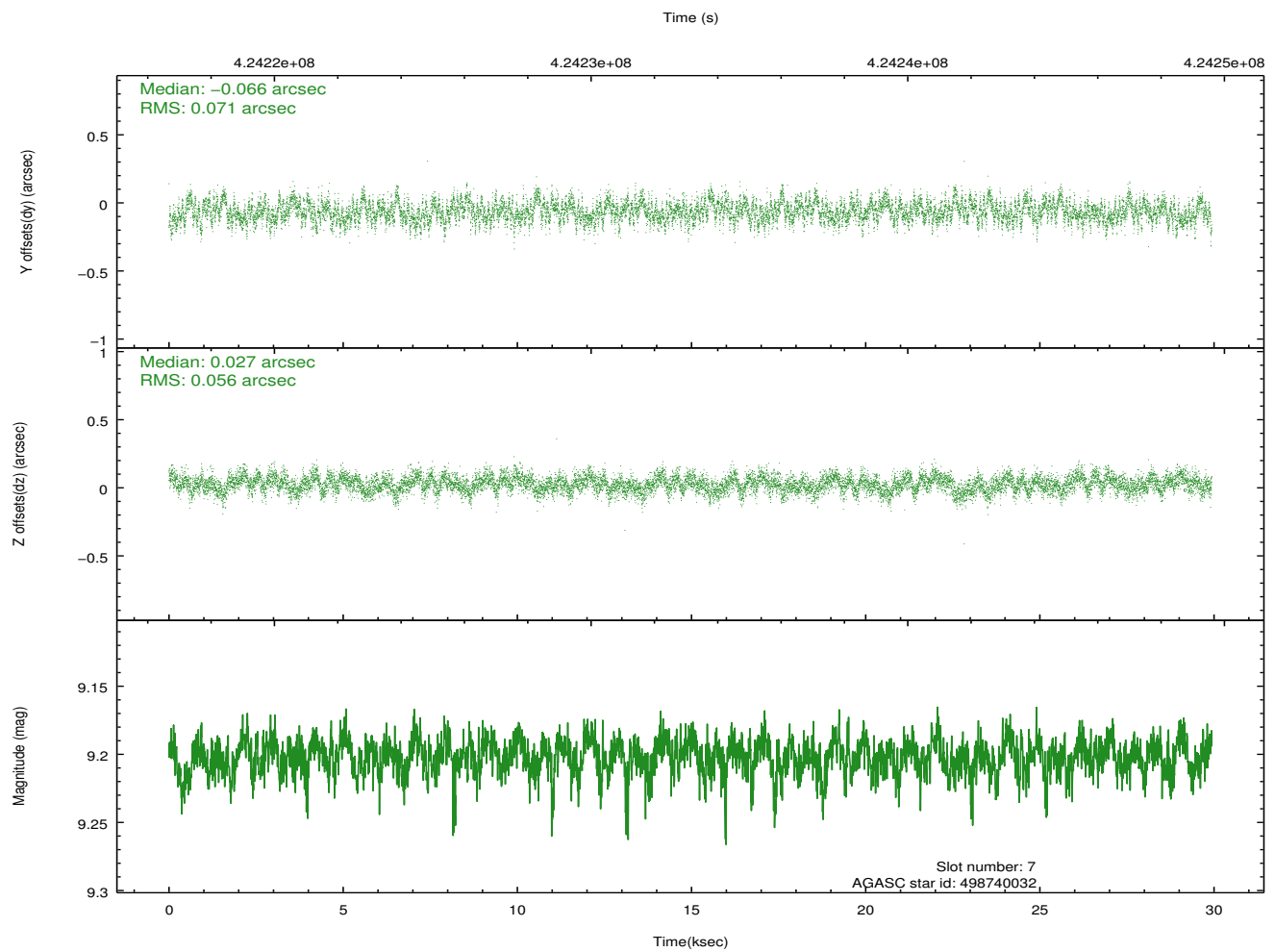
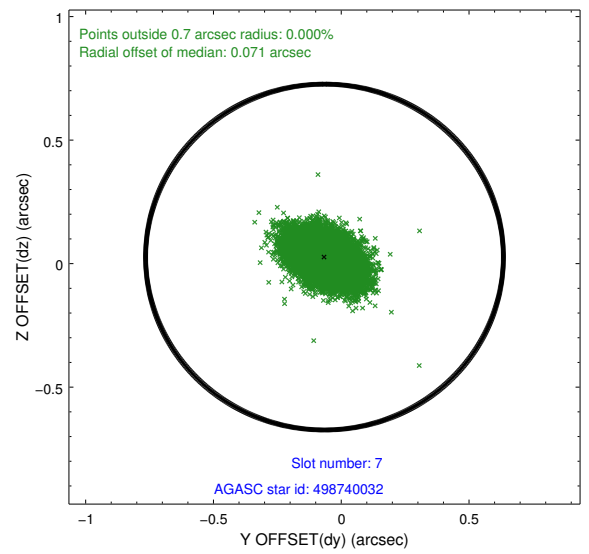
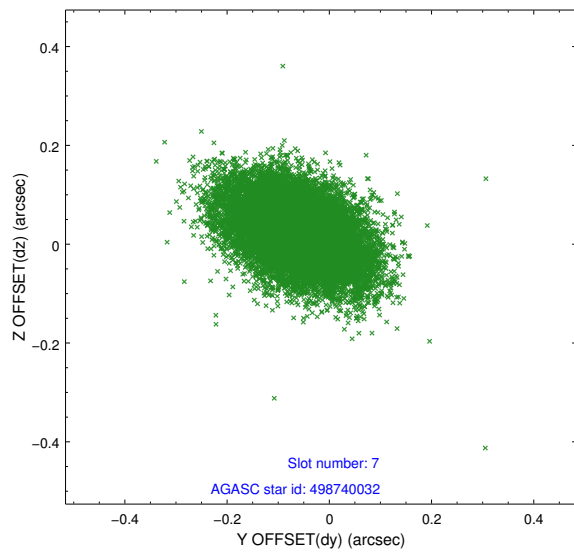
### 2.4.3 Slot 5



### 2.4.4 Slot 6

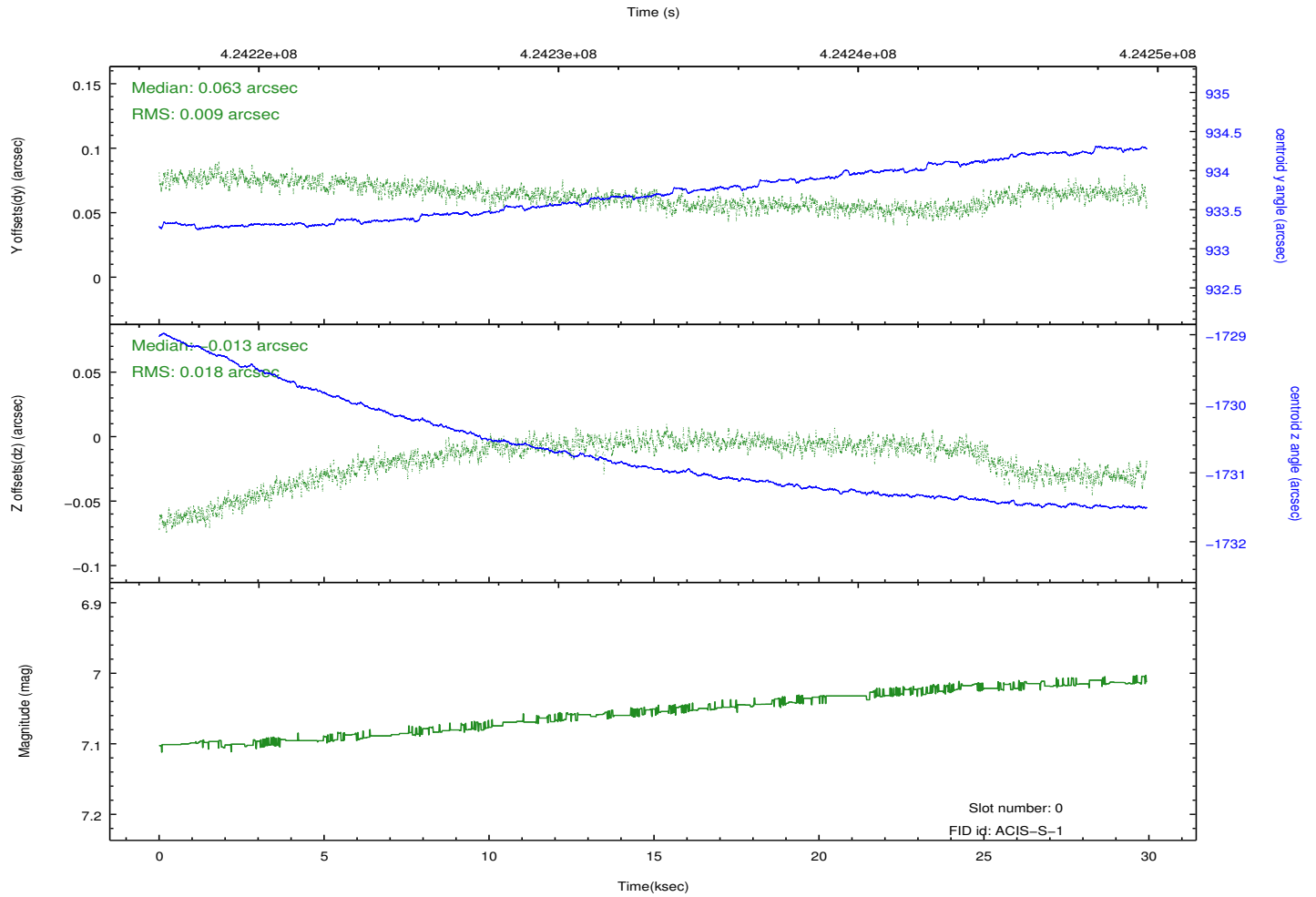
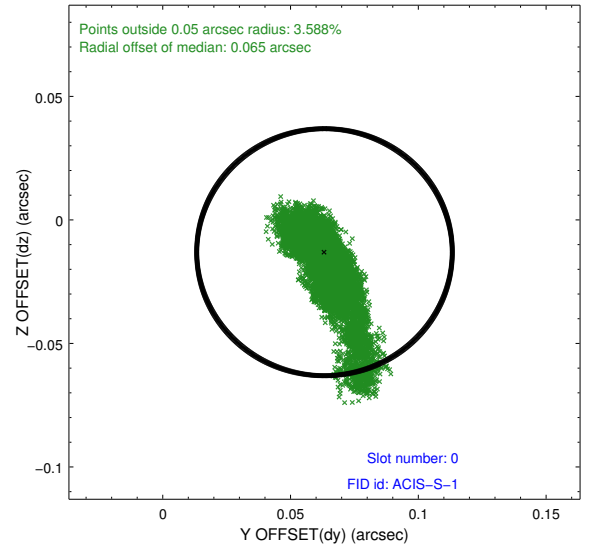
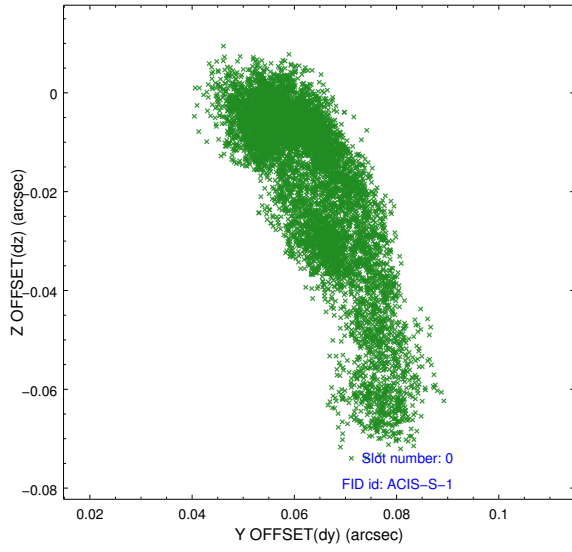


## 2.4.5 Slot 7

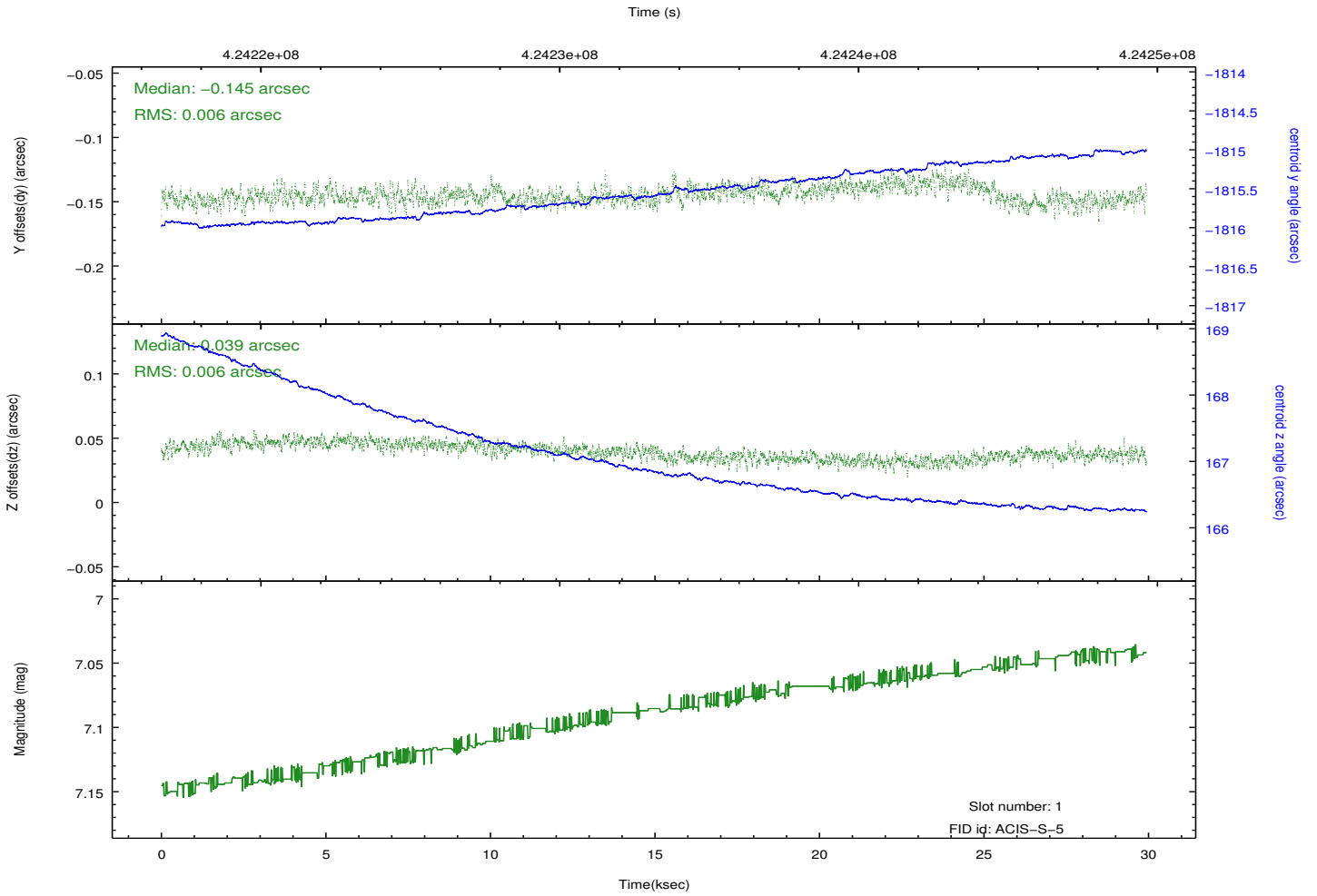
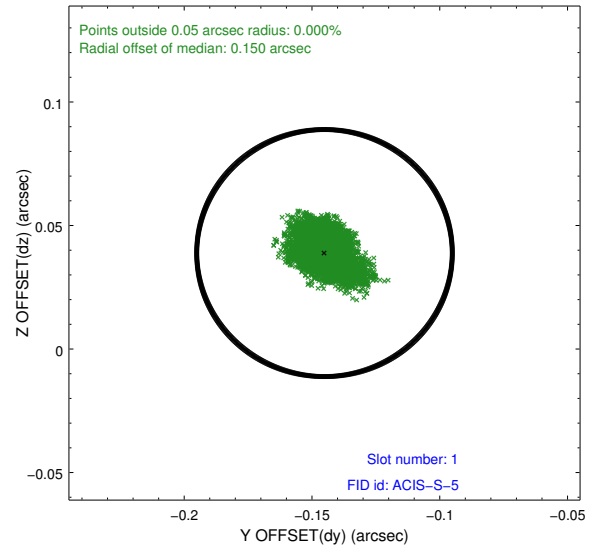
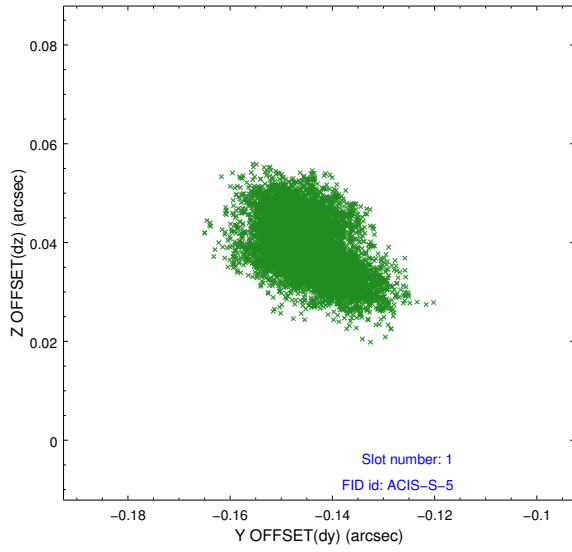


## 2.5 FID Slots

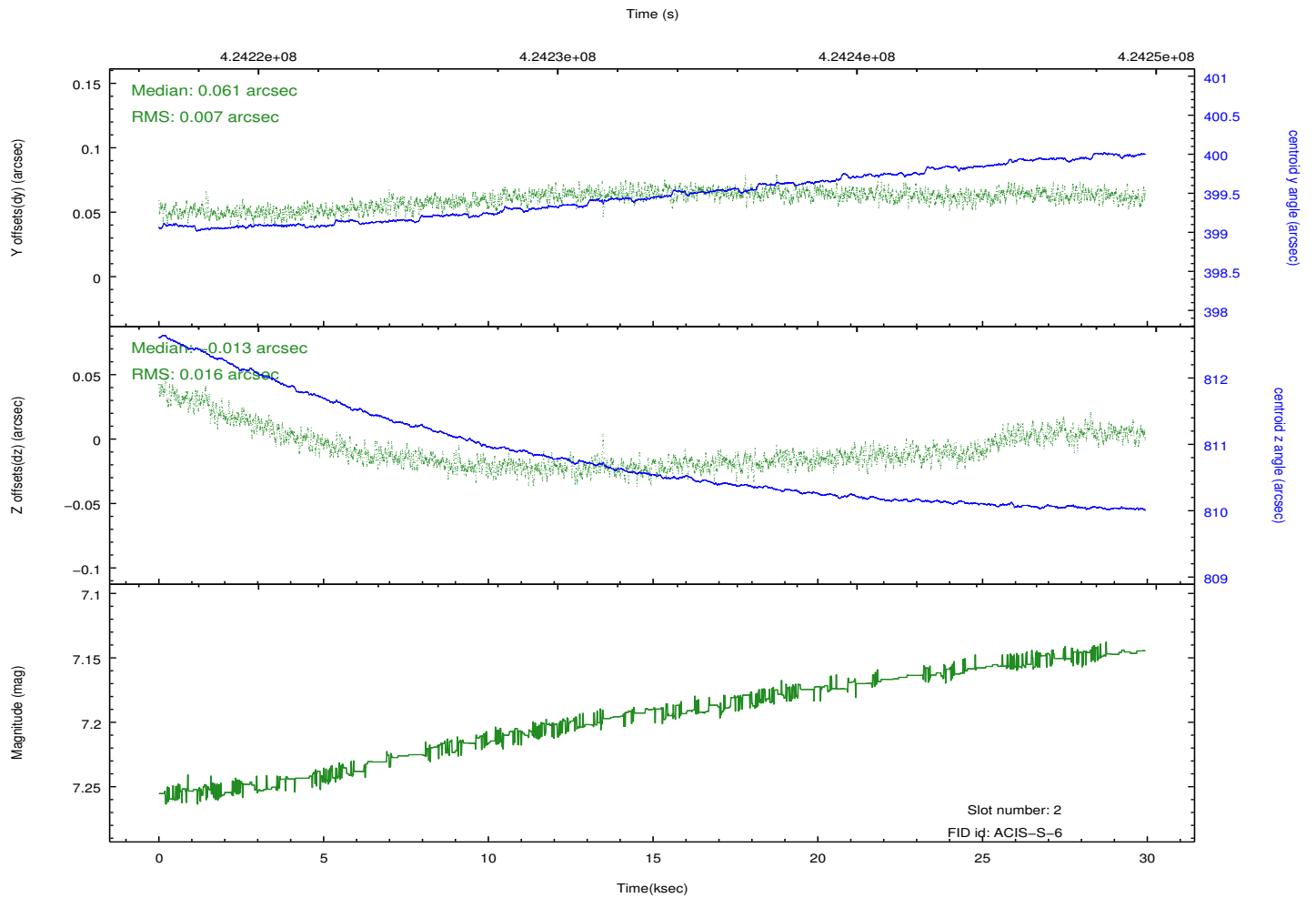
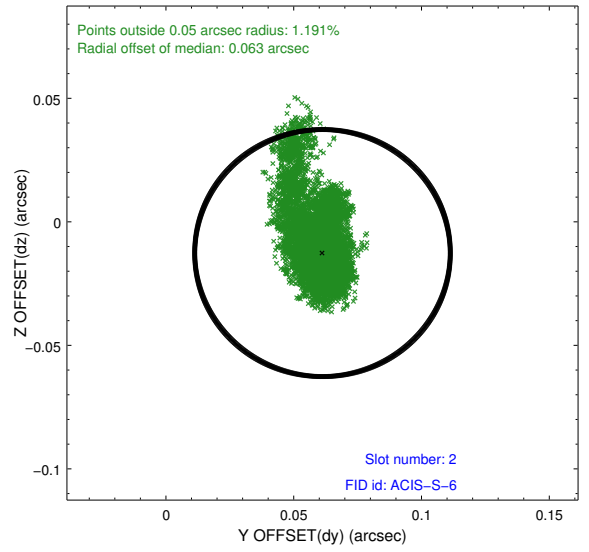
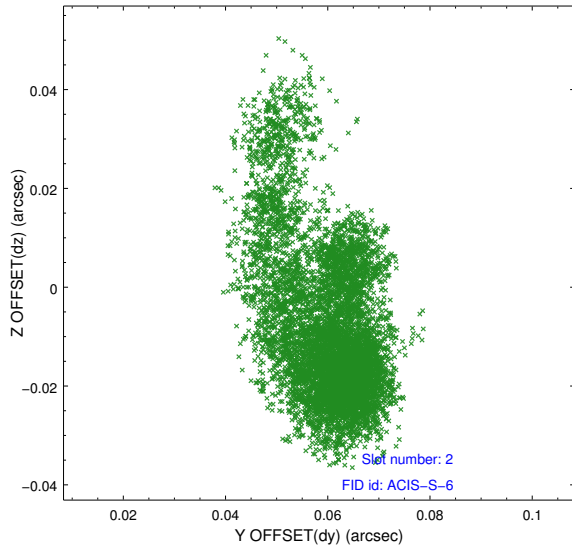
### 2.5.1 Slot 0



## 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)	2012.02.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.823999888957

### A.2 Comments