

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8022 - L2 Version 3  
Chandra X-Ray Center

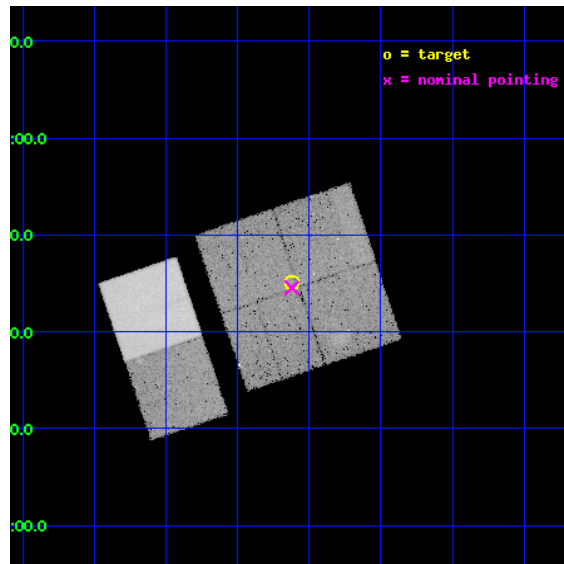
L2 Processing Date : Apr 24 2012

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# 1 Front

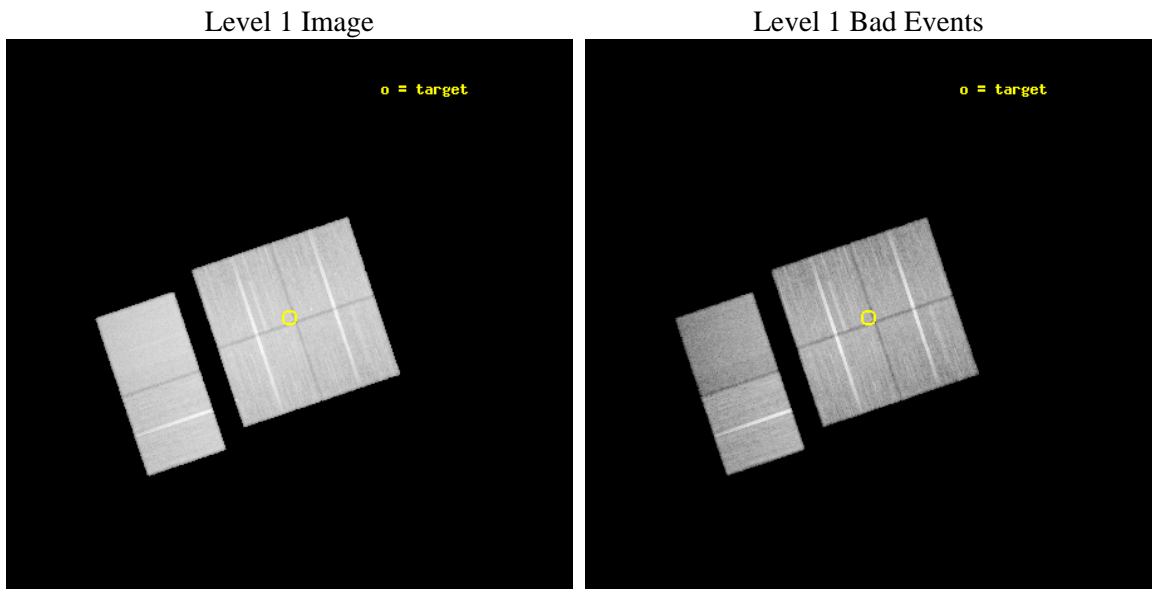
seq_num	900566	Sequence number
obs_id	8022	Observation id
title	THE CHANDRA-COSMOS SURVEY	Proposal title
observer	Dr. Martin Elvis	Principal investigator
object	C-COSMOS6-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.280433	Observer's specified target RA [deg]
dec_targ	1.750386	Observer's specified target Dec [deg]
ra_nom	150.2802334944	Nominal RA [deg]
dec_nom	1.7422991346139	Nominal Dec [deg]
roll_nom	251.40869739469	Nominal Roll [deg]
revision	3	Processing version of data
ontime	32163.158899903	Sum of GTIs [s]
livetime	31755.889615584	Livetime [s]
ontime0	32166.39988023	Sum of GTIs [s]
ontime1	32166.39988023	Sum of GTIs [s]
ontime2	32163.158899963	Sum of GTIs [s]
ontime3	32163.158899903	Sum of GTIs [s]
ontime6	32166.39988023	Sum of GTIs [s]
ontime7	32166.39988023	Sum of GTIs [s]
l2events	233638	Number of level 2 events



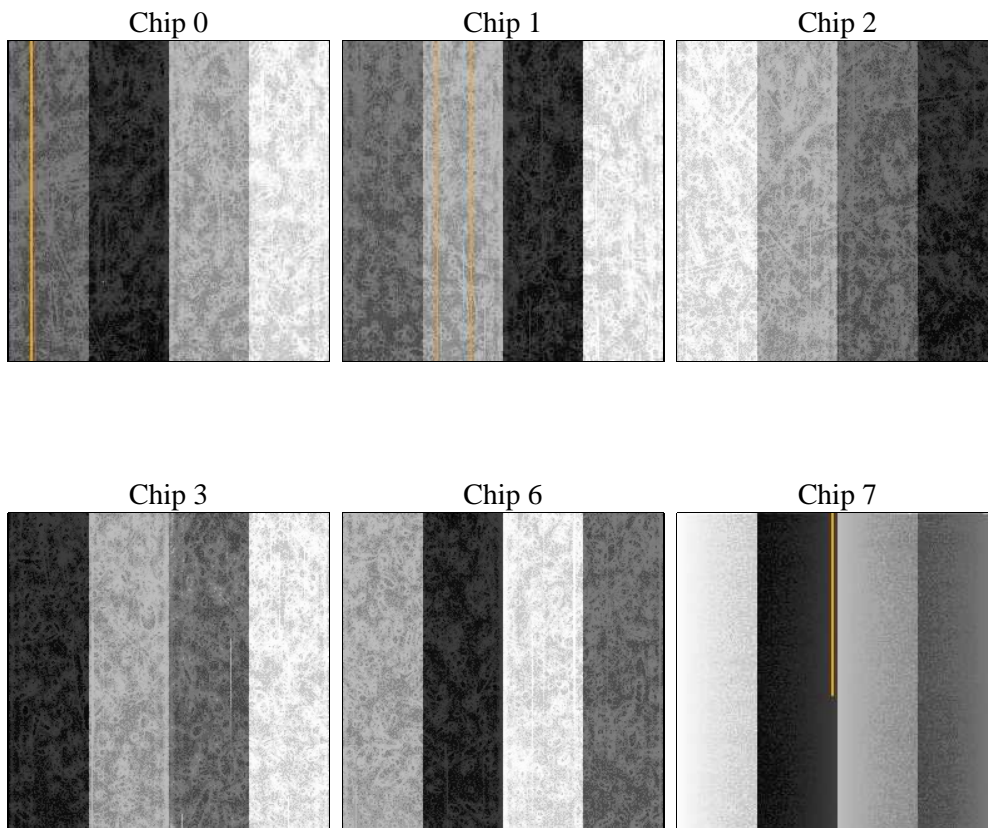
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	32000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	32163.158899903	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	32166.39988023	Sum of GTIs [s]
date	2012-04-24T21:44:28	Date and time of file creation	ontime1	32166.39988023	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	32163.158899963	Sum of GTIs [s]
			ontime3	32163.158899903	Sum of GTIs [s]
			ontime6	32166.39988023	Sum of GTIs [s]
			ontime7	32166.39988023	Sum of GTIs [s]
			l1events	1572748	Number of level 1 events

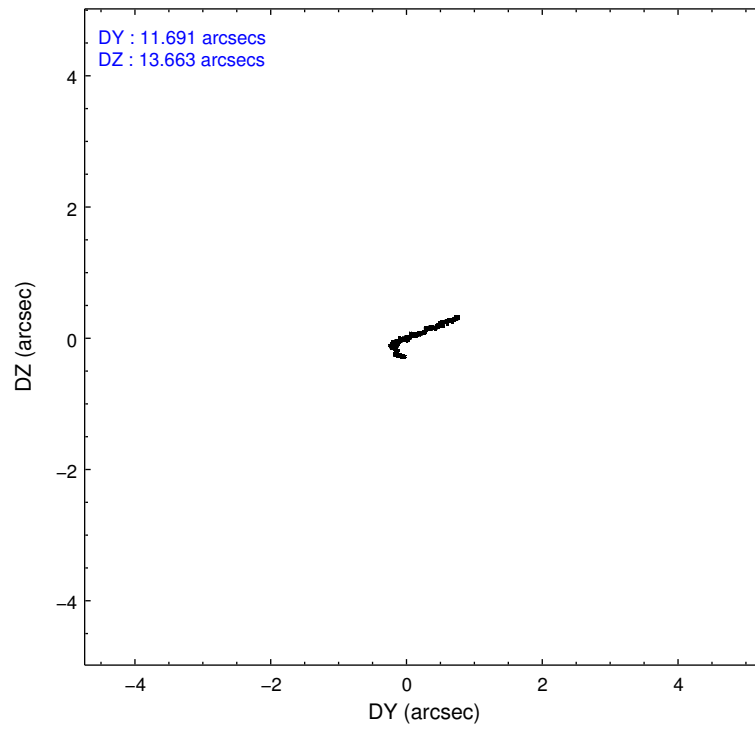
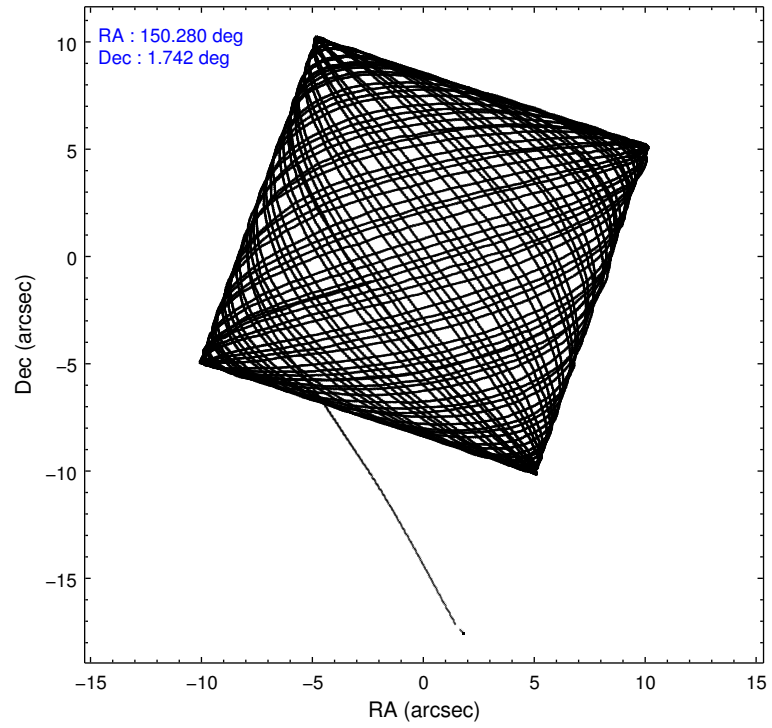
### 2.1.4 Events

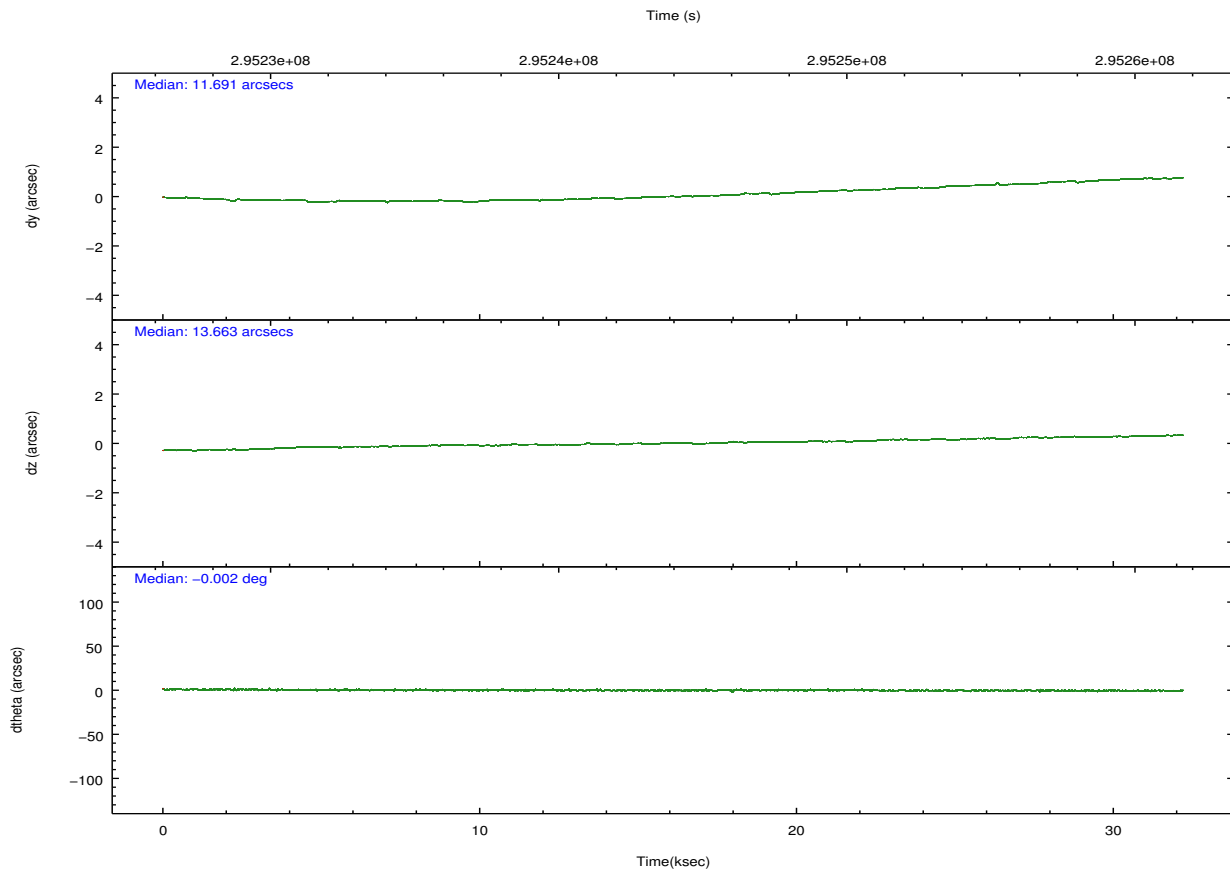
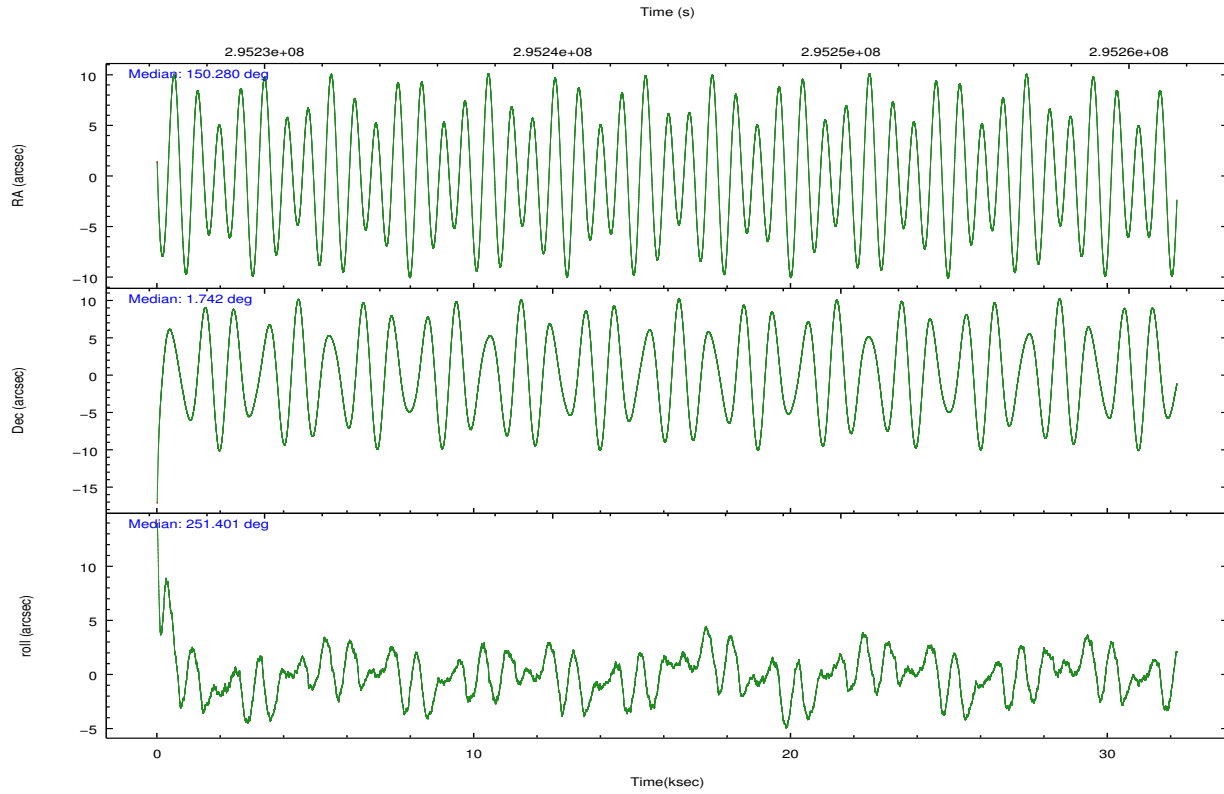
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	239919	242879	274793	261223	269170	284764	grade 0 events	9288	10243	8928	8080	8839	12064
rejected events	213920	214368	249770	237822	242918	154647		3%	4%	3%	3%	3%	4%
rejected %	89%	88%	90%	91%	90%	54%	grade 1 events	134	126	161	138	130	325
								0%	0%	0%	0%	0%	0%
							grade 2 events	6175	6349	5984	5116	5909	25945
								2%	2%	2%	1%	2%	9%
							grade 3 events	2947	3094	2776	2627	2875	12030
								1%	1%	1%	1%	1%	4%
							grade 4 events	2782	3006	2721	2682	2819	11767
								1%	1%	0%	1%	1%	4%
							grade 5 events	8486	9770	8220	10299	10344	29651
								3%	4%	2%	3%	3%	10%
							grade 6 events	4811	5821	4614	4898	5810	68322
								2%	2%	1%	1%	2%	23%
							grade 7 events	205296	204470	241389	227383	232444	124660
								85%	84%	87%	87%	86%	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	150.274702	150.2802334944014	CCD I2 on	Y	Y
[deg] Pointing Dec	1.769243	1.74229913461386	CCD I3 on	Y	Y
[deg] Pointing Roll	251.200183	251.4086973946948	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	295228071.184000	295227002.81409	CCD S5 on	N	N
Observation start date	2007-05-10T23:46:46	2007-05-10T23:30:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	295260071.184000	295260698.6657	On-chip summing requested	N	N
Observation end date	2007-05-11T08:40:06	2007-05-11T08:51:38	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



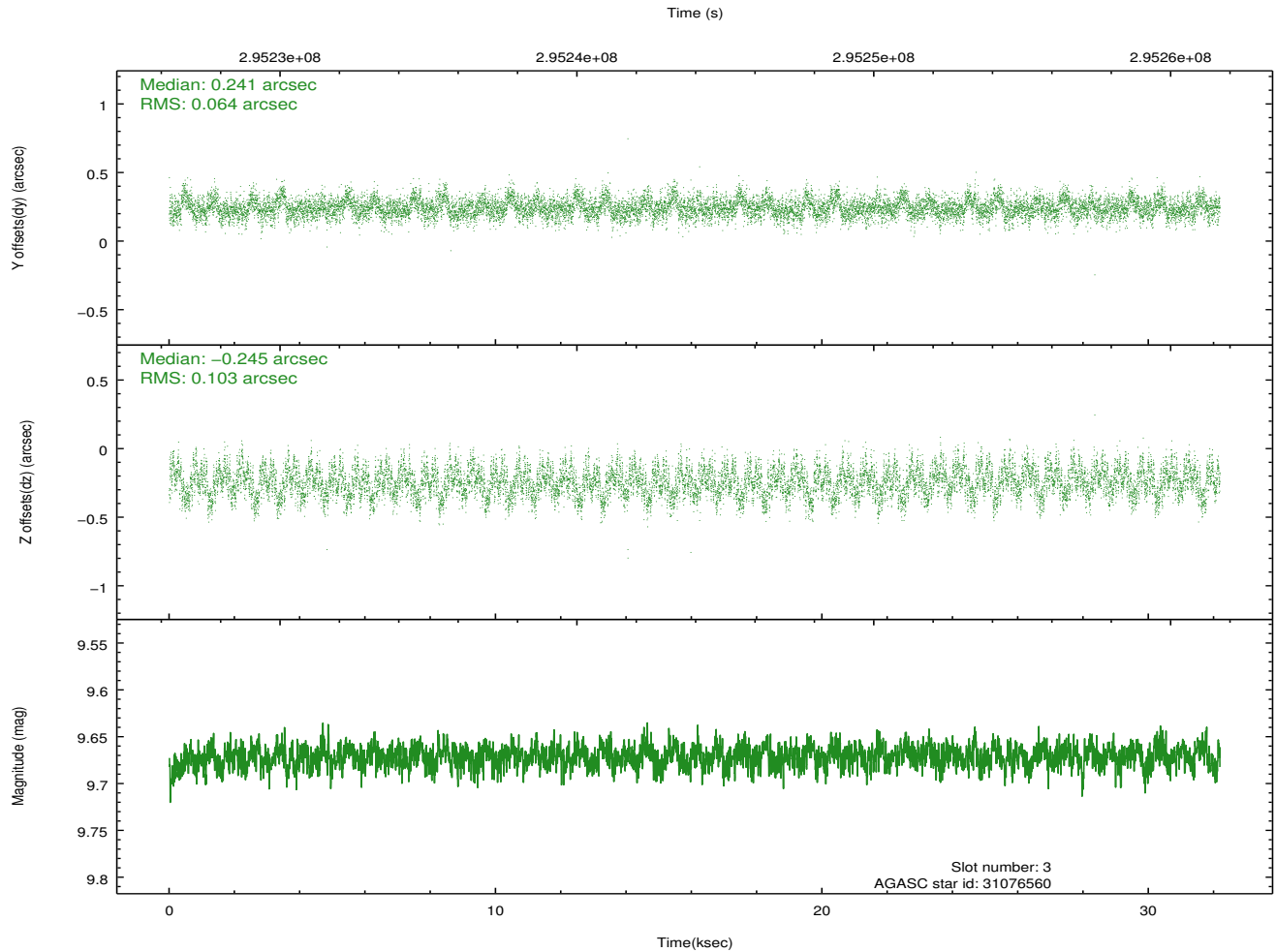
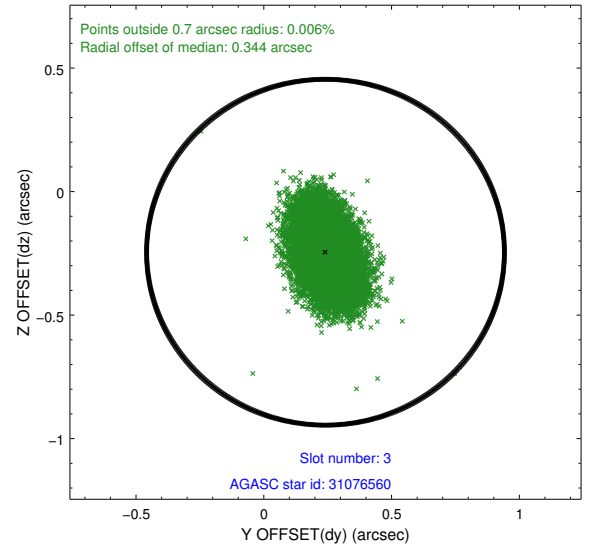
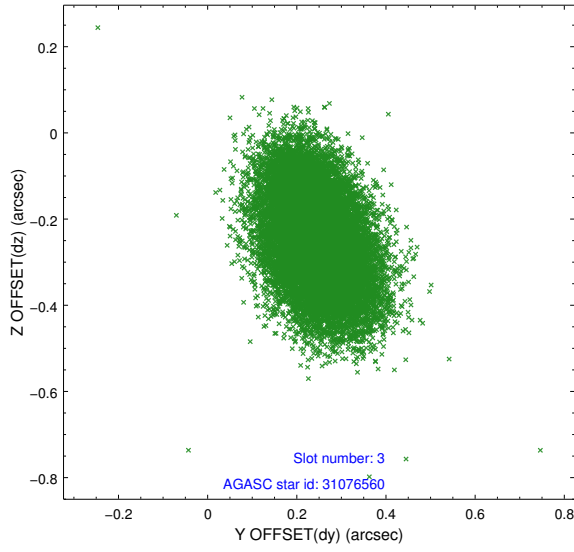


### Slot Statistics

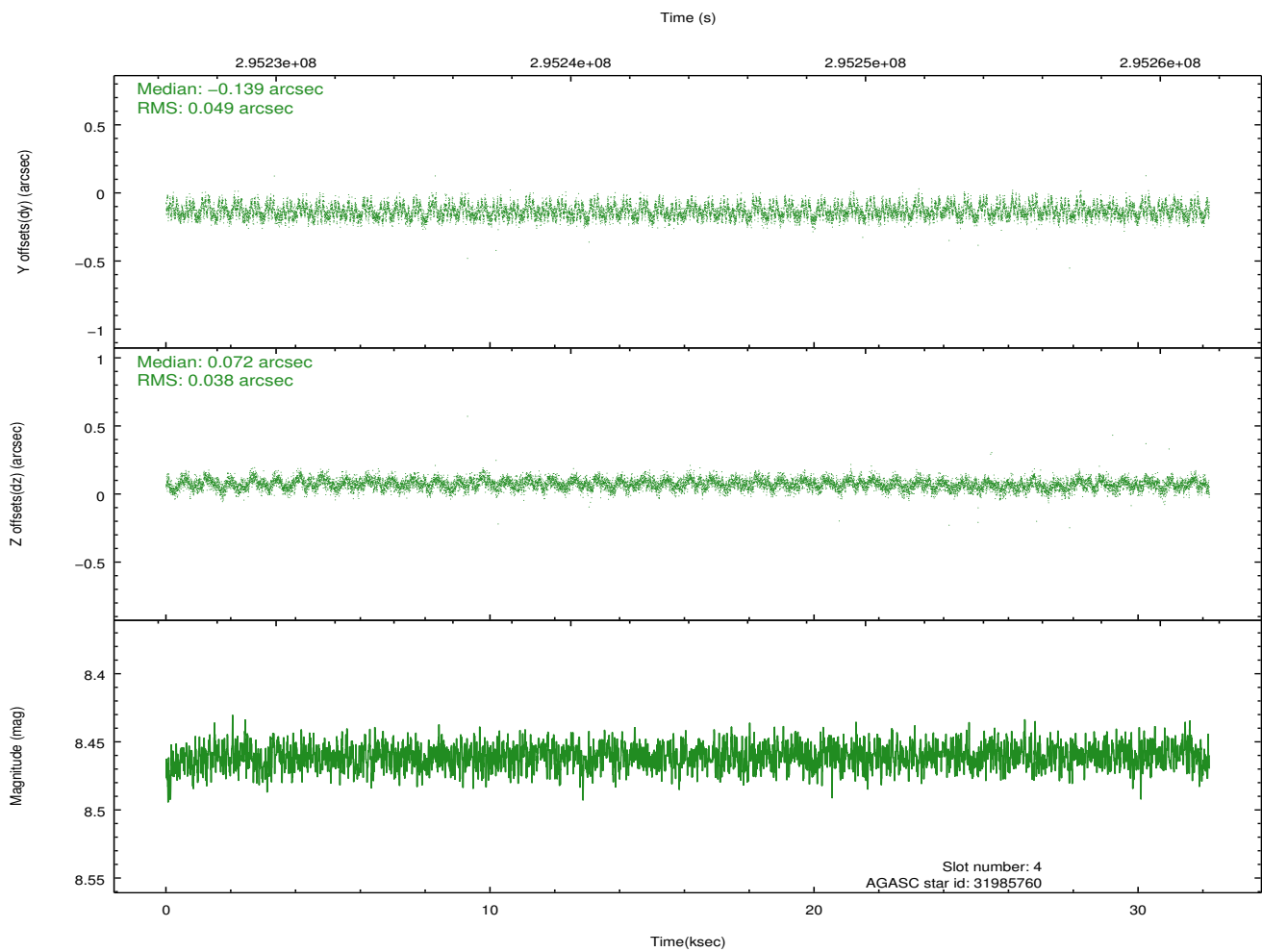
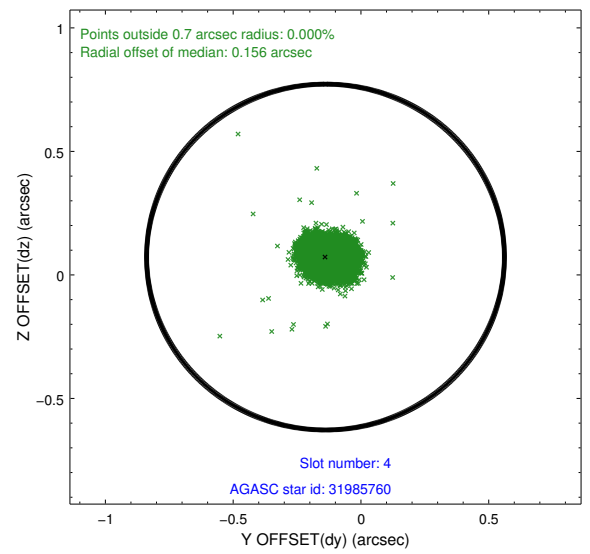
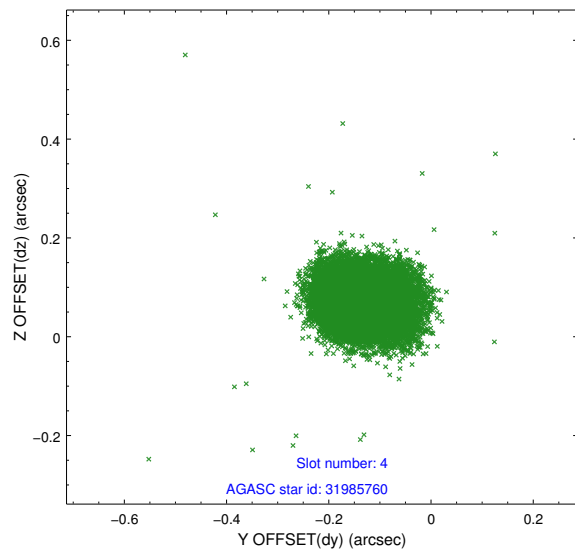
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	7852	0.032	0.007	0.009	0.018	0.000000	0.000000	927.77	-837.23
1	FID	ACIS-I-5	7.23	7852	-0.205	0.041	0.009	0.018	0.000000	0.000000	-1820.55	1060.24
2	FID	ACIS-I-6	7.24	7851	0.081	0.022	0.008	0.013	0.000000	0.000000	393.29	1704.81
3	GUIDE	31076560	9.67	15679	0.241	-0.245	0.129	0.213	149.884782	2.009277	-365.41	-1606.23
4	GUIDE	31985760	8.46	15697	-0.139	0.072	0.066	0.106	150.924581	2.094394	-1862.23	1835.98
5	GUIDE	31986152	9.00	15686	-0.017	0.138	0.079	0.124	150.840314	2.057585	-1638.99	1591.86
6	GUIDE	31989744	8.94	15689	0.207	-0.015	0.075	0.121	150.416962	1.131114	2009.65	1225.80
7	GUIDE	31983336	8.59	15699	-0.298	0.051	0.064	0.105	150.429924	2.291234	-1959.07	-76.78

## 2.4 Star Slots

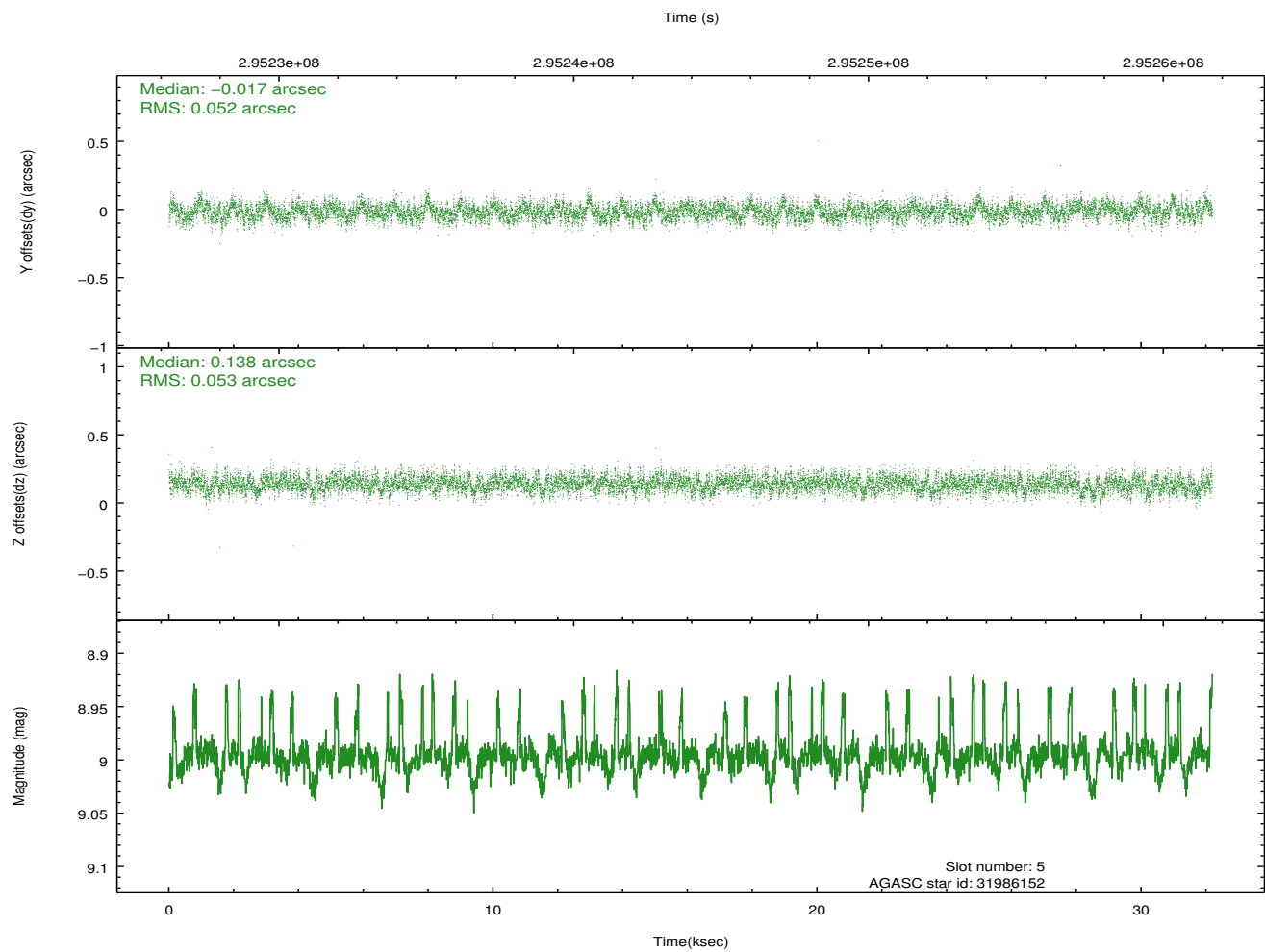
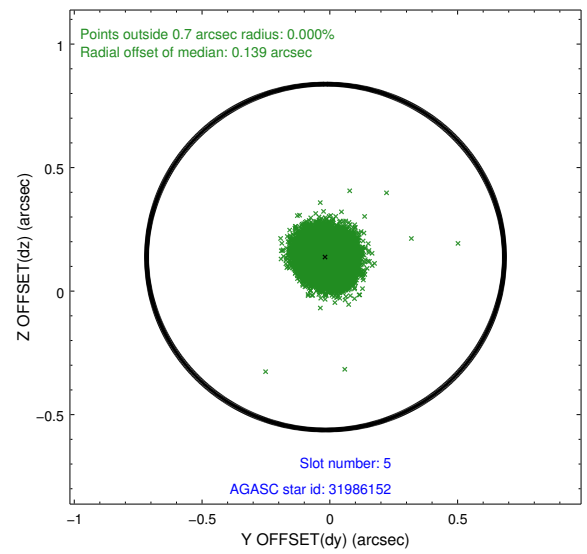
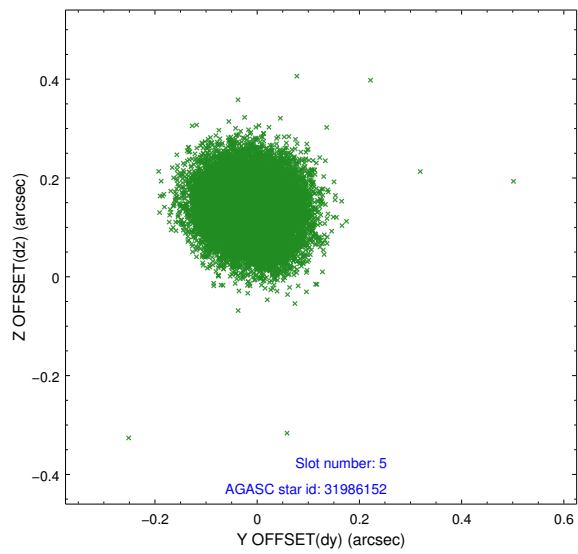
### 2.4.1 Slot 3



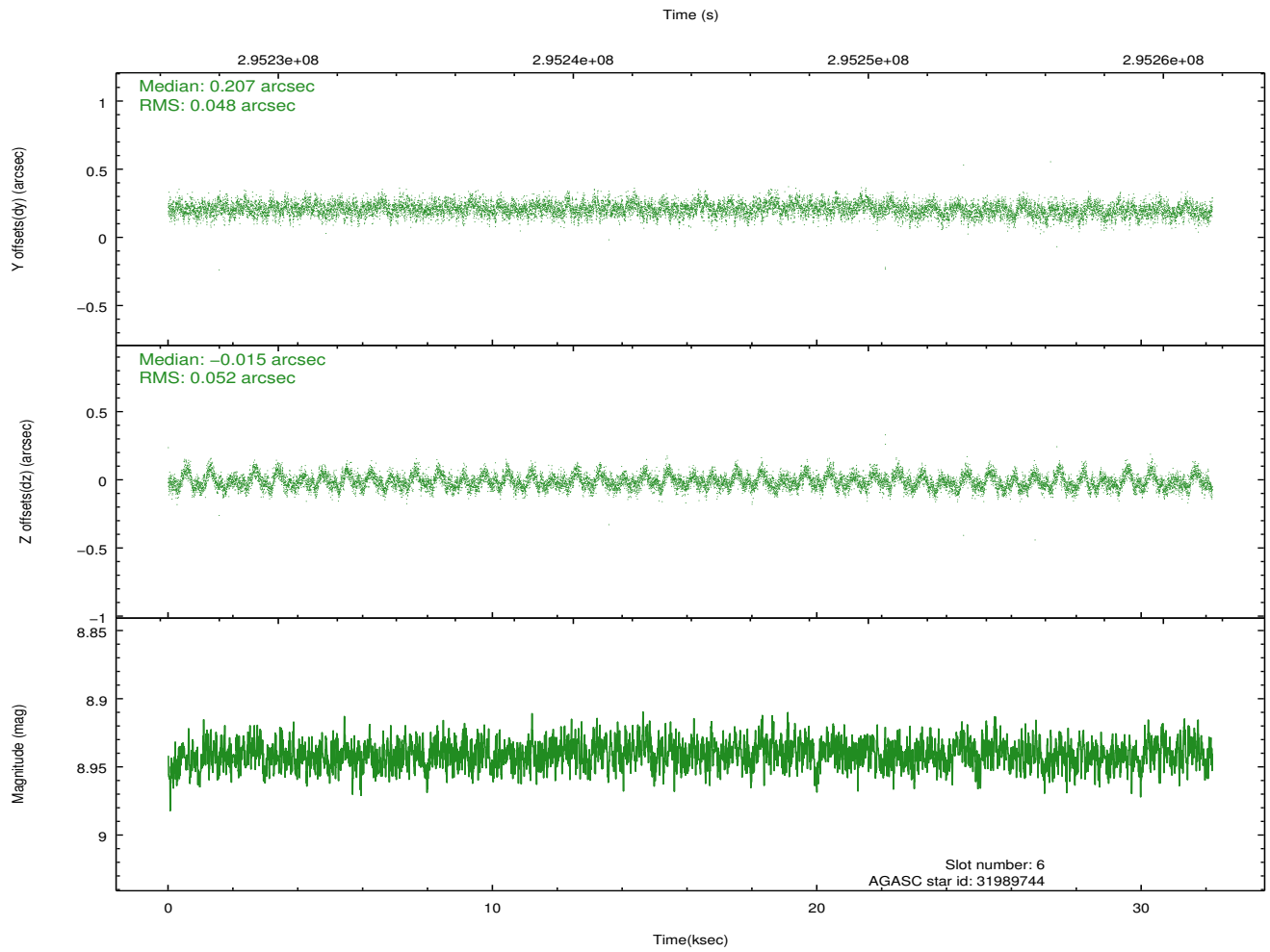
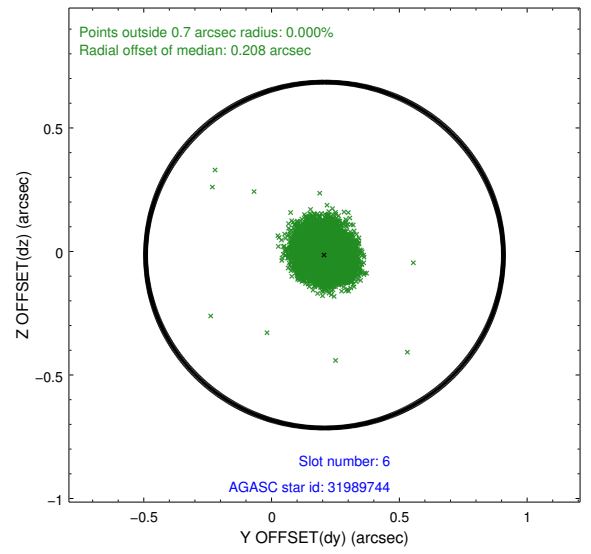
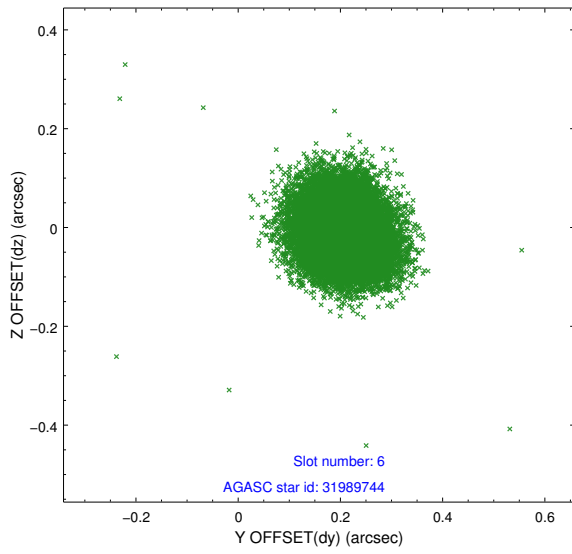
## 2.4.2 Slot 4



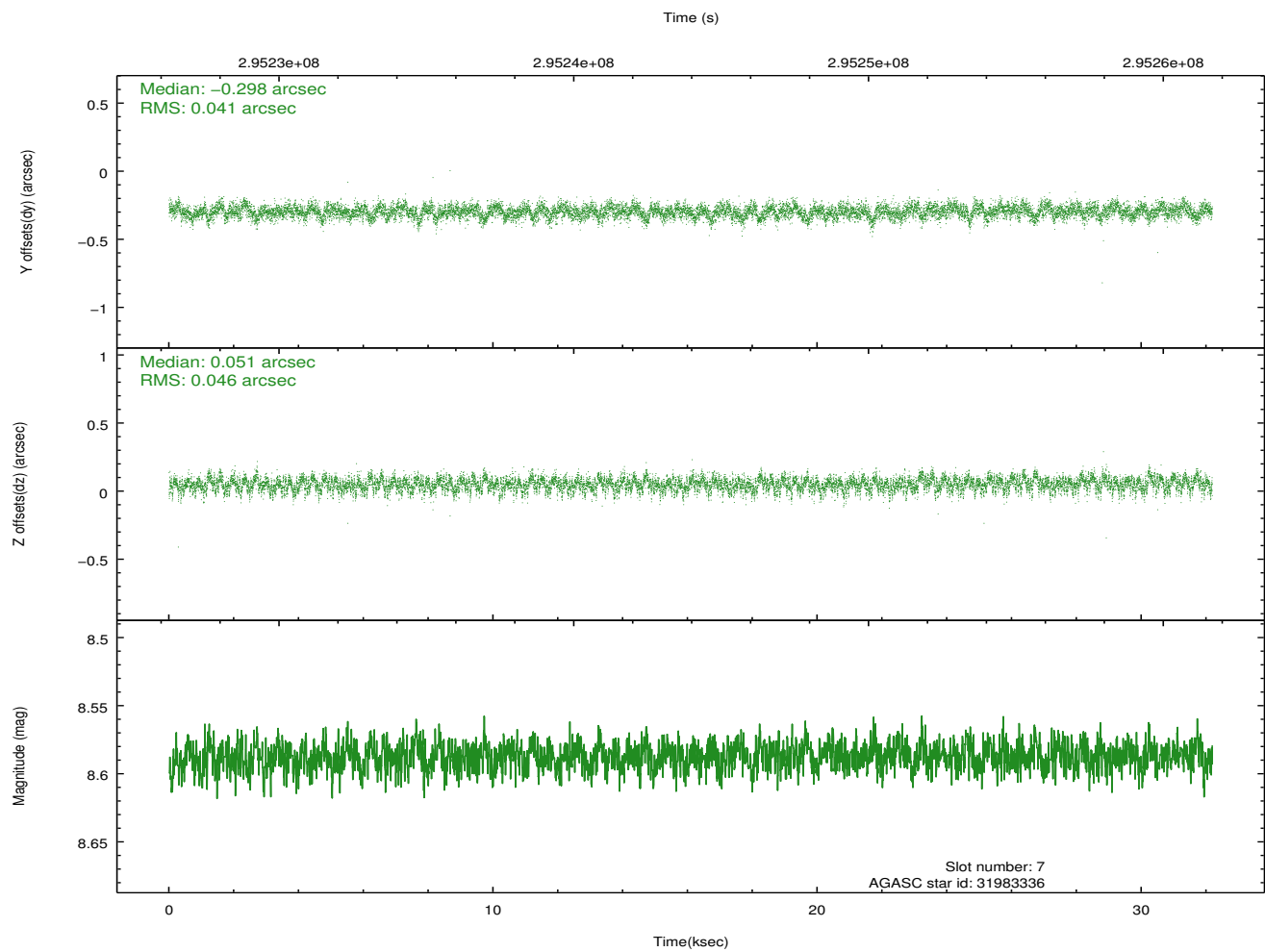
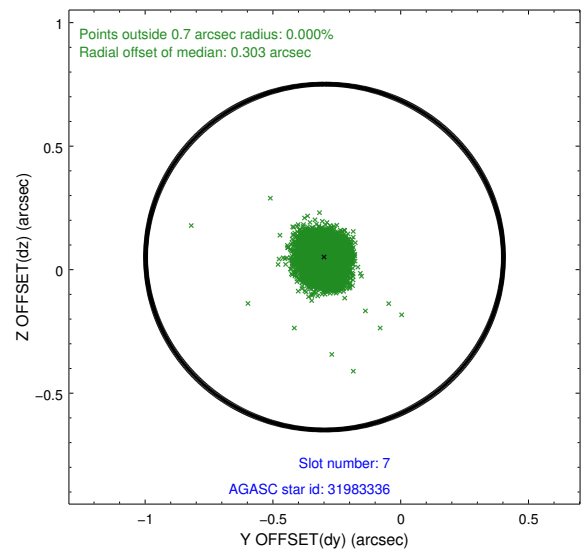
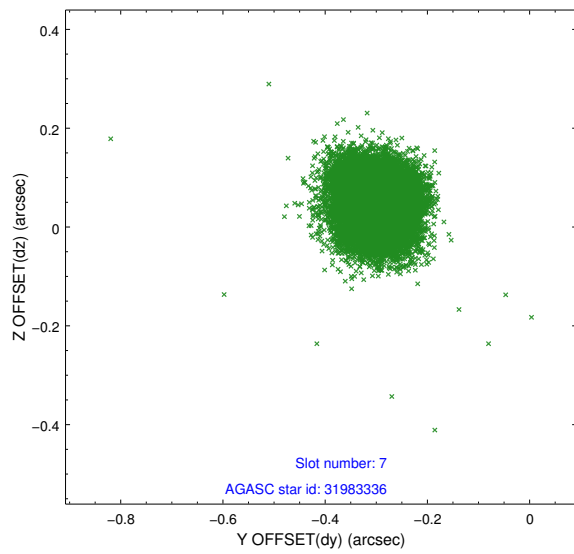
### 2.4.3 Slot 5



### 2.4.4 Slot 6

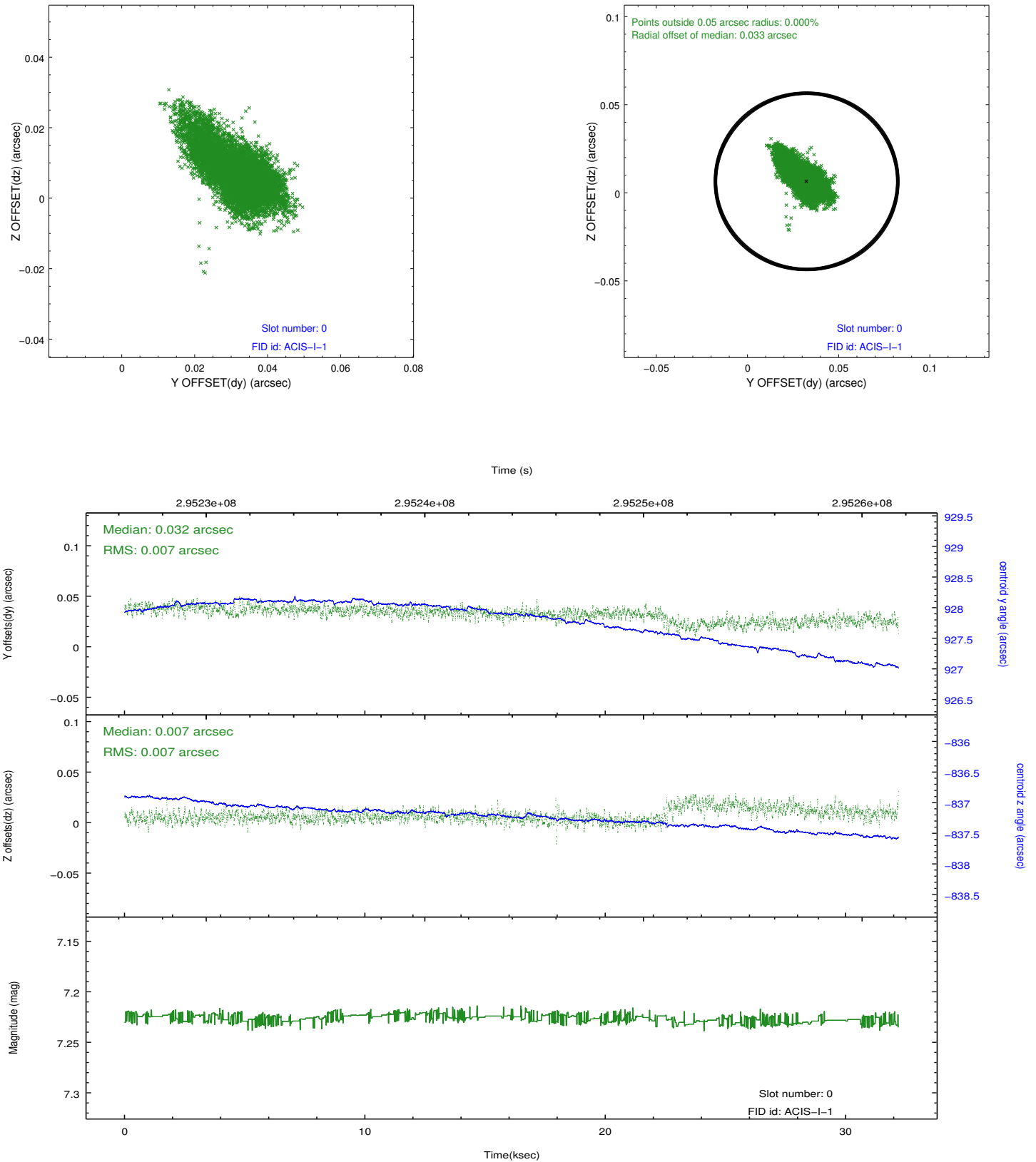


## 2.4.5 Slot 7

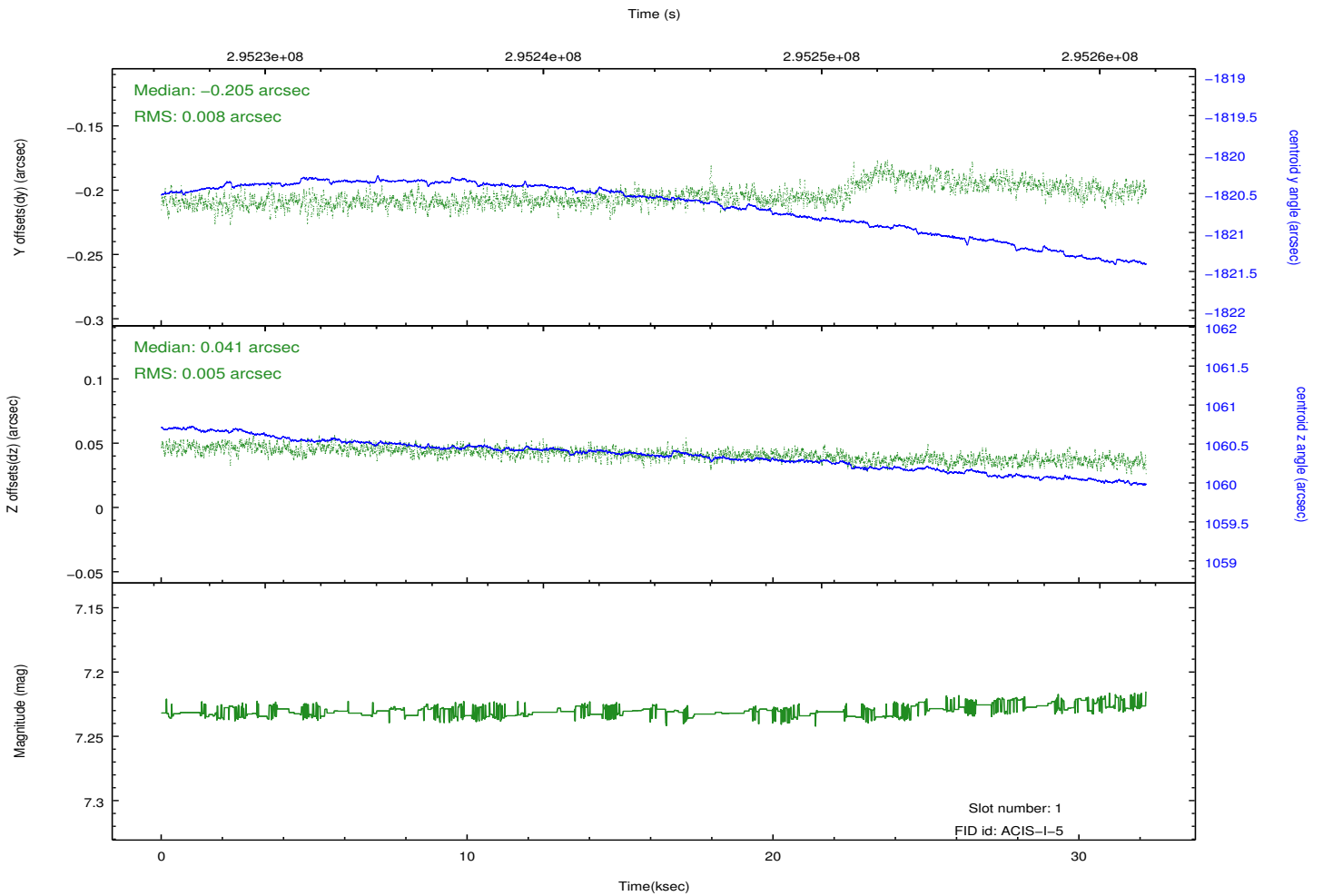
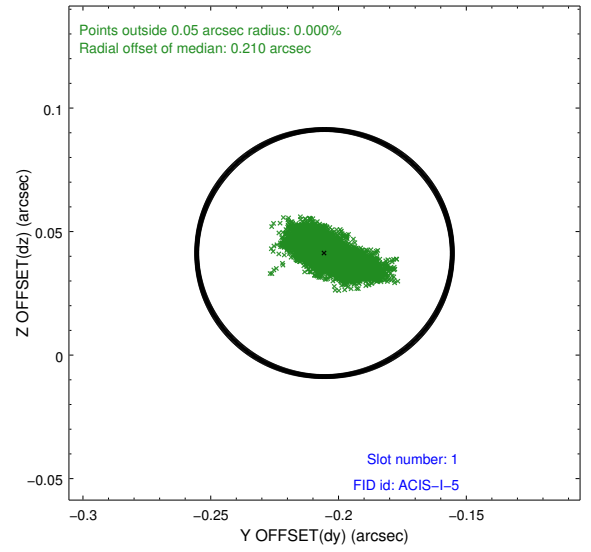
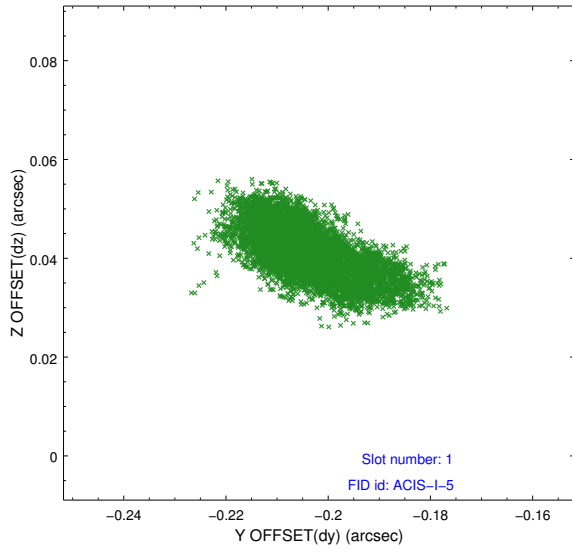


## 2.5 FID Slots

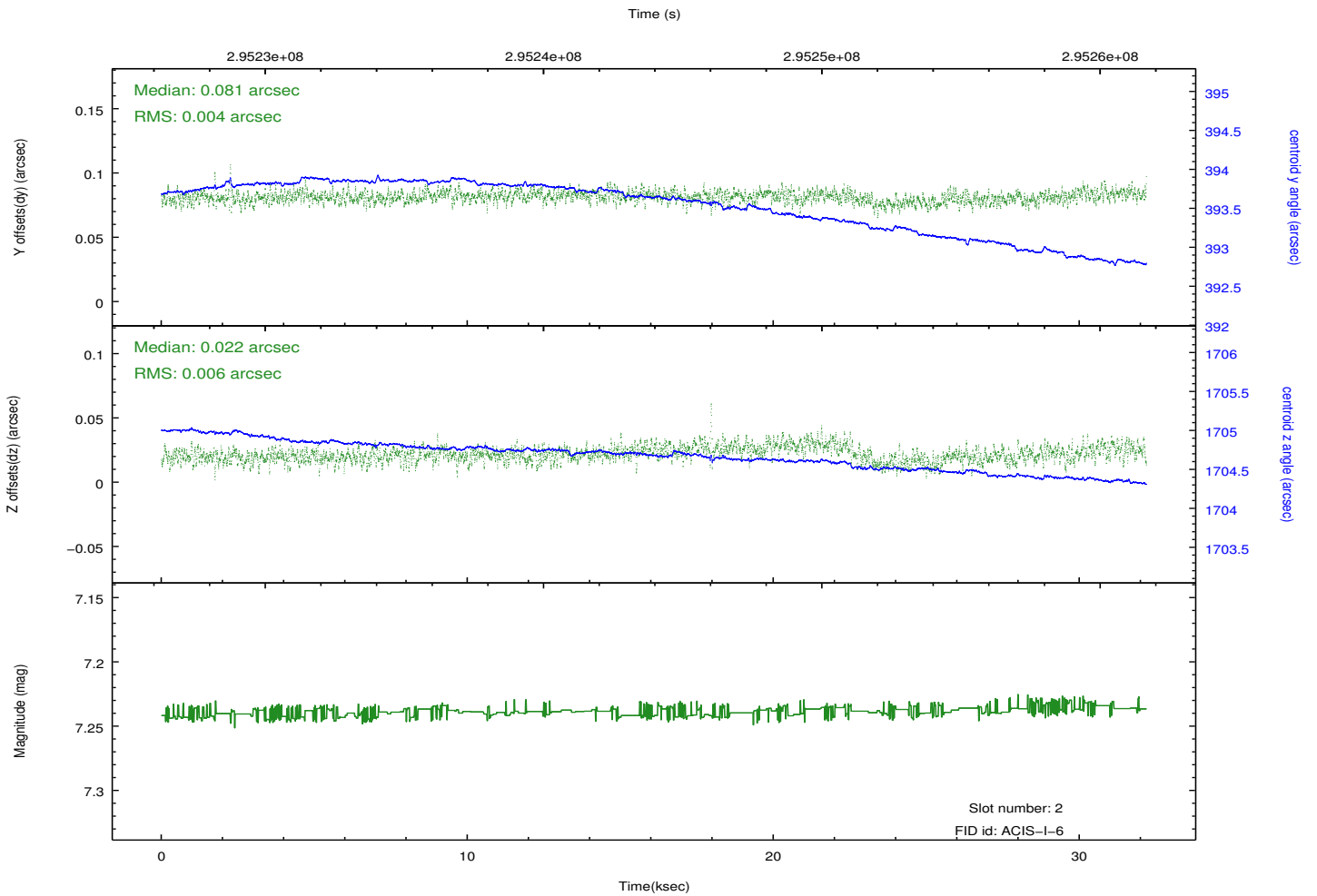
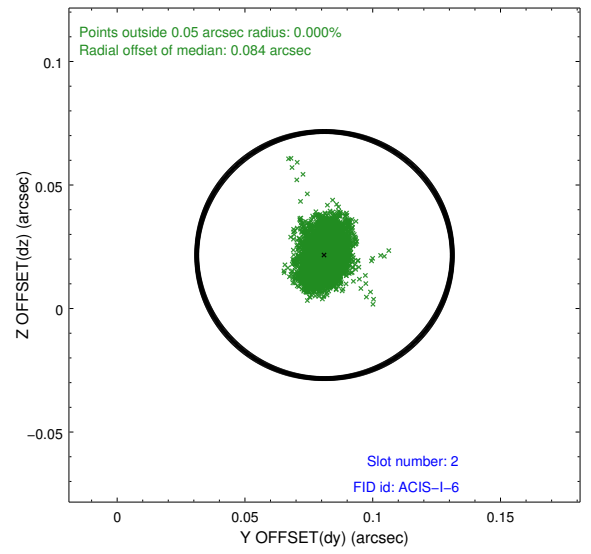
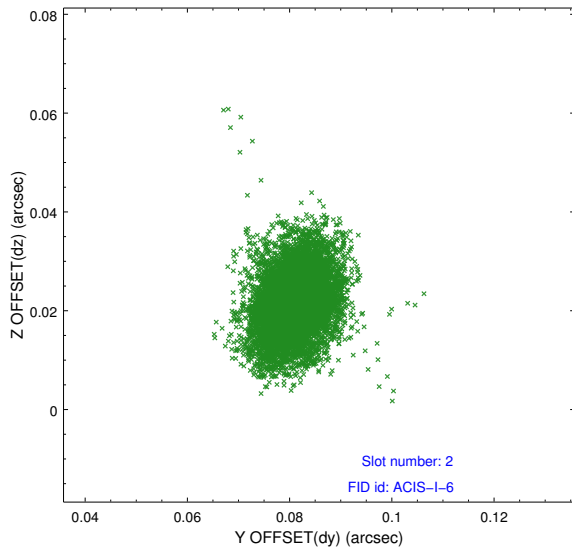
### 2.5.1 Slot 0



## 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)	2012.04.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.1631588

## A.2 Comments

Roll preference met.