

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9891 - L2 Version 2  
Chandra X-Ray Center

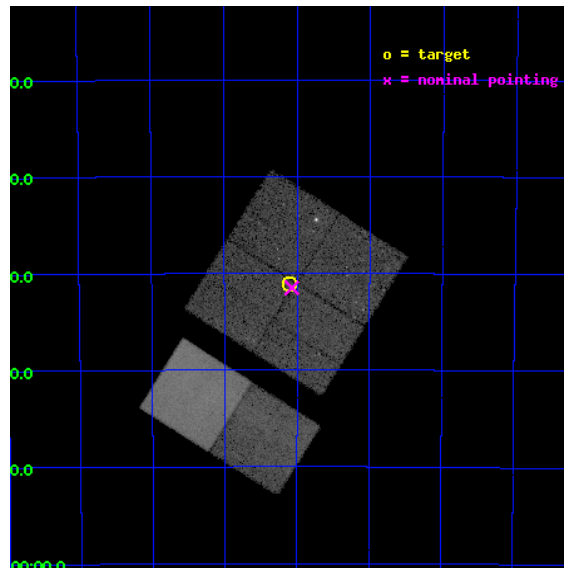
L2 Processing Date : May 19 2012

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# 1 Front

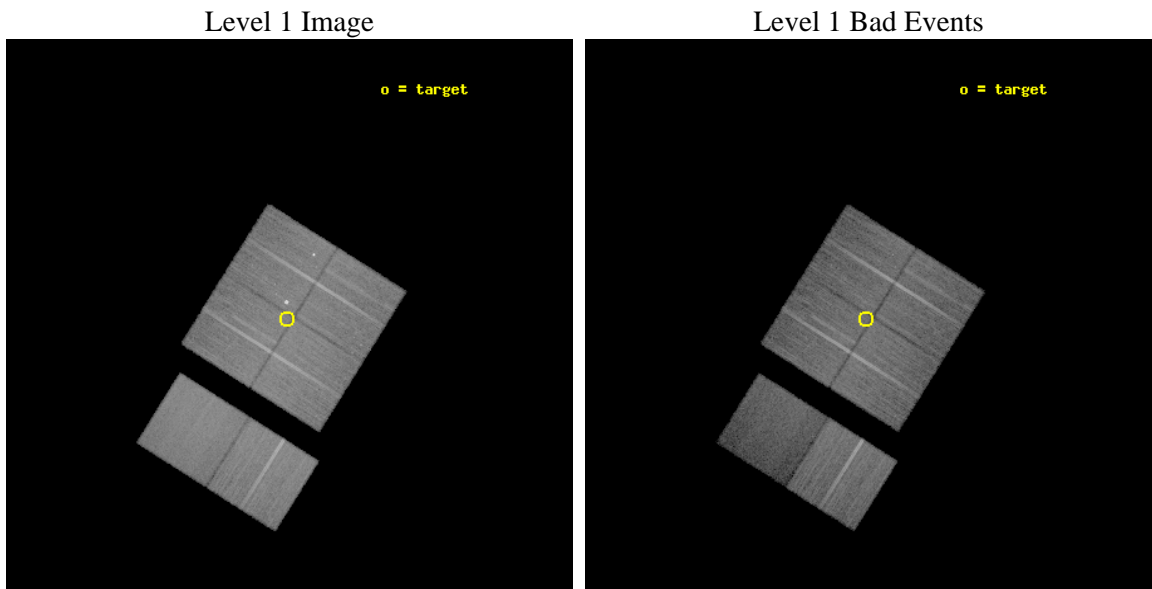
seq_num	900823	Sequence number
obs_id	9891	Observation id
title	The Great Nebula in Carina: Protoplanetary Disks to Starburst Galaxies	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	Carina Clusters Ptg 6	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	161.527917	Observer's specified target RA [deg]
dec_targ	-59.519139	Observer's specified target Dec [deg]
ra_nom	161.51753918966	Nominal RA [deg]
dec_nom	-59.525268098179	Nominal Dec [deg]
roll_nom	212.19973822513	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20921.599922121	Sum of GTIs [s]
livetime	20656.678026432	Livetime [s]
ontime0	20921.599922121	Sum of GTIs [s]
ontime1	20921.599922121	Sum of GTIs [s]
ontime2	20918.358941734	Sum of GTIs [s]
ontime3	20921.599922121	Sum of GTIs [s]
ontime6	20921.599922121	Sum of GTIs [s]
ontime7	20921.599922121	Sum of GTIs [s]
l2events	177940	Number of level 2 events



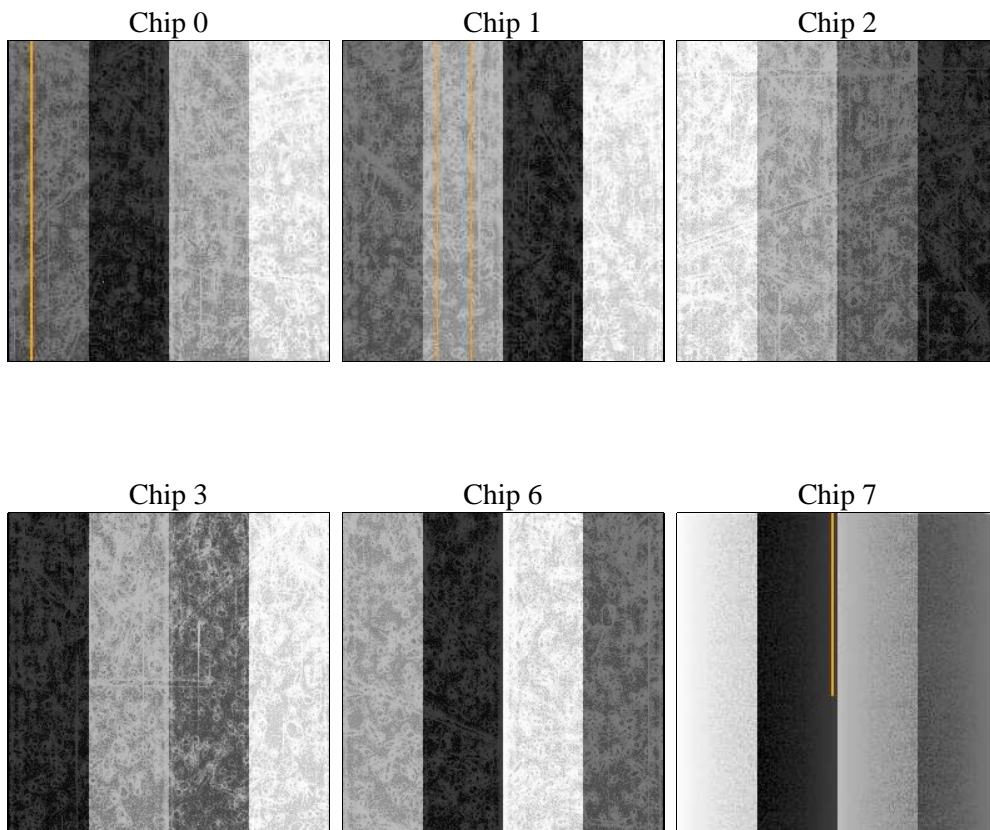
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20754.857000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	20921.599922121	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	20921.599922121	Sum of GTIs [s]
date	2012-05-19T02:14:02	Date and time of file creation	ontime1	20921.599922121	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20918.358941734	Sum of GTIs [s]
			ontime3	20921.599922121	Sum of GTIs [s]
			ontime6	20921.599922121	Sum of GTIs [s]
			ontime7	20921.599922121	Sum of GTIs [s]
			l1events	987953	Number of level 1 events

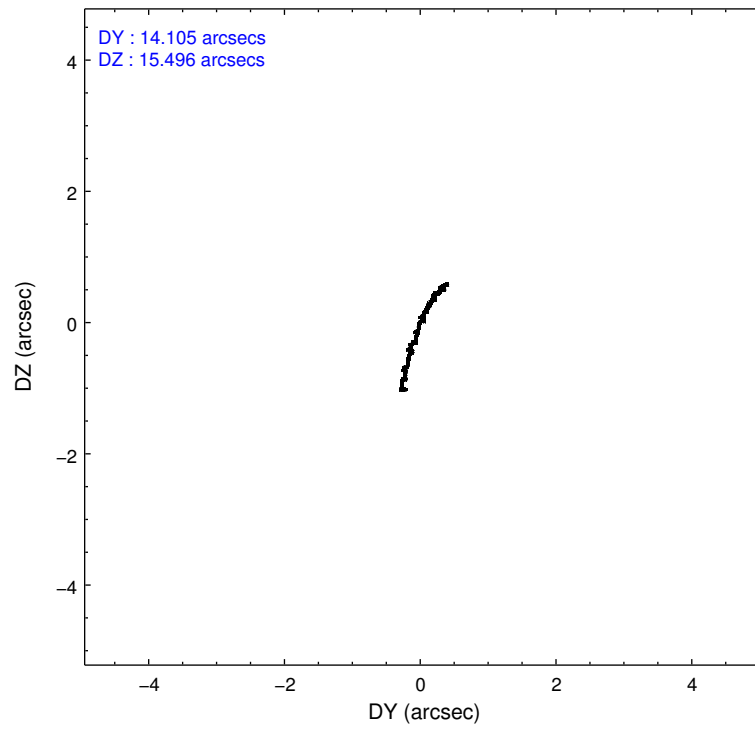
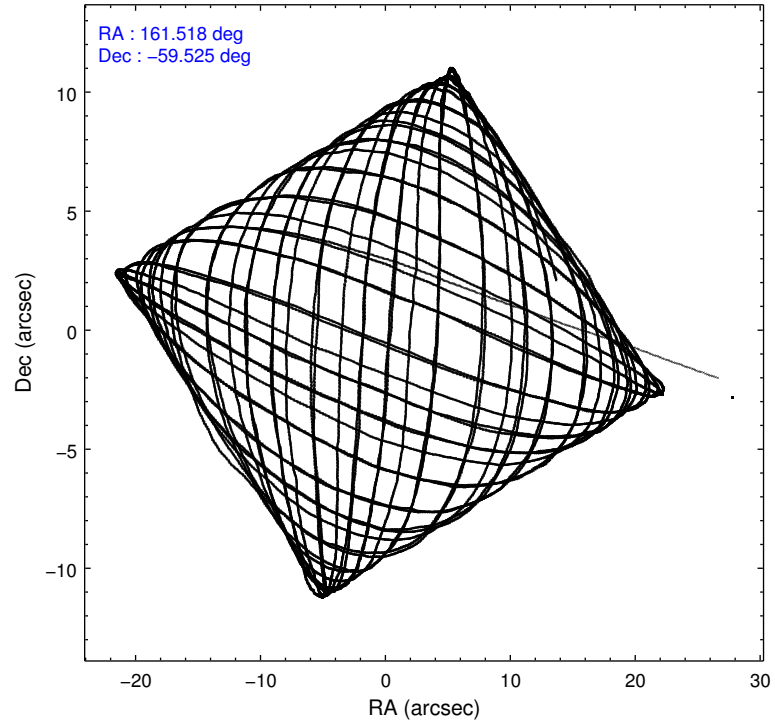
### 2.1.4 Events

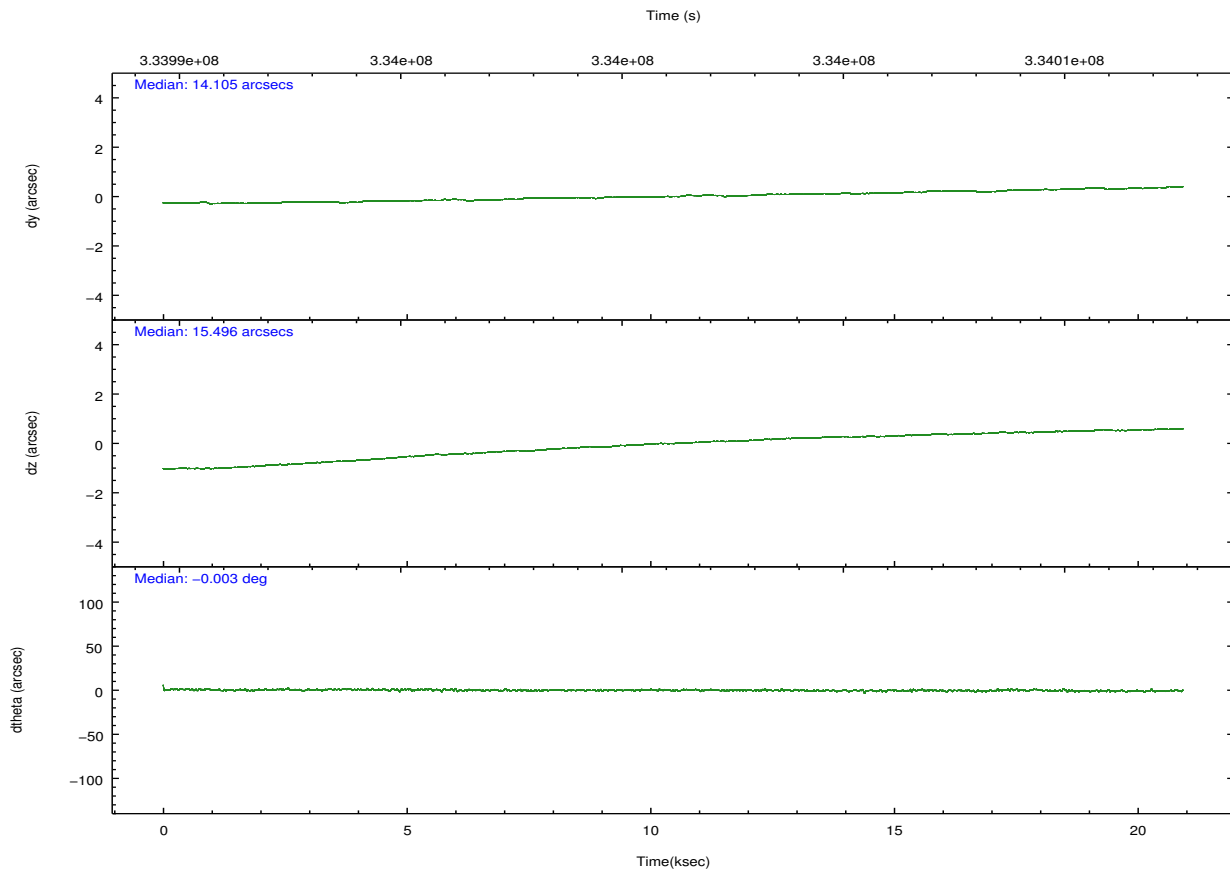
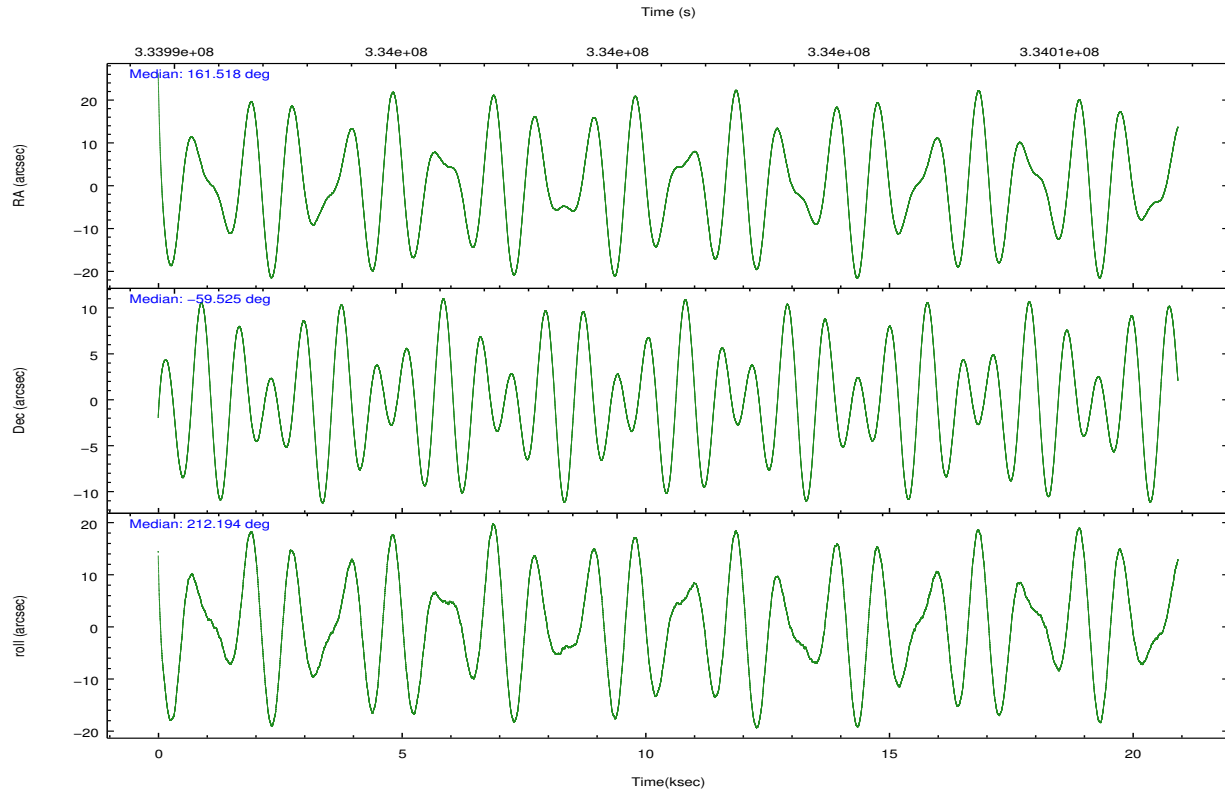
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	156520	157376	175232	157620	175282	165923	grade 0 events	9485	16458	11147	7192	15737	12289
rejected events	136361	129315	153731	140833	147704	78168		6%	10%	6%	4%	8%	7%
rejected %	87%	82%	87%	89%	84%	47%	grade 1 events	98	153	123	87	145	265
								0%	0%	0%	0%	0%	0%
							grade 2 events	4231	4261	4136	3389	4595	19417
								2%	2%	2%	2%	2%	11%
							grade 3 events	1880	2050	1766	1691	2004	8557
								1%	1%	1%	1%	1%	5%
							grade 4 events	1786	1945	1800	1659	1900	8307
								1%	1%	1%	1%	1%	5%
							grade 5 events	4626	5236	4384	5567	5742	16399
								2%	3%	2%	3%	3%	9%
							grade 6 events	2830	3426	2722	2902	3423	39439
								1%	2%	1%	1%	1%	23%
							grade 7 events	131584	123847	149154	135133	141736	61250
								84%	78%	85%	85%	80%	36%

## 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	161.542642	161.5175391896625	CCD I2 on	Y	Y
[deg] Pointing Dec	-59.500901	-59.52526809817868	CCD I3 on	Y	Y
[deg] Pointing Roll	212.012683	212.1997382251251	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)	333990852.184000	333989758.71437	CCD S5 on	N	N
Observation start date	2008-08-01T15:13:07	2008-08-01T14:55:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	334011607.184000	334011839.77796	On-chip summing requested	N	N
Observation end date	2008-08-01T20:59:02	2008-08-01T21:03:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



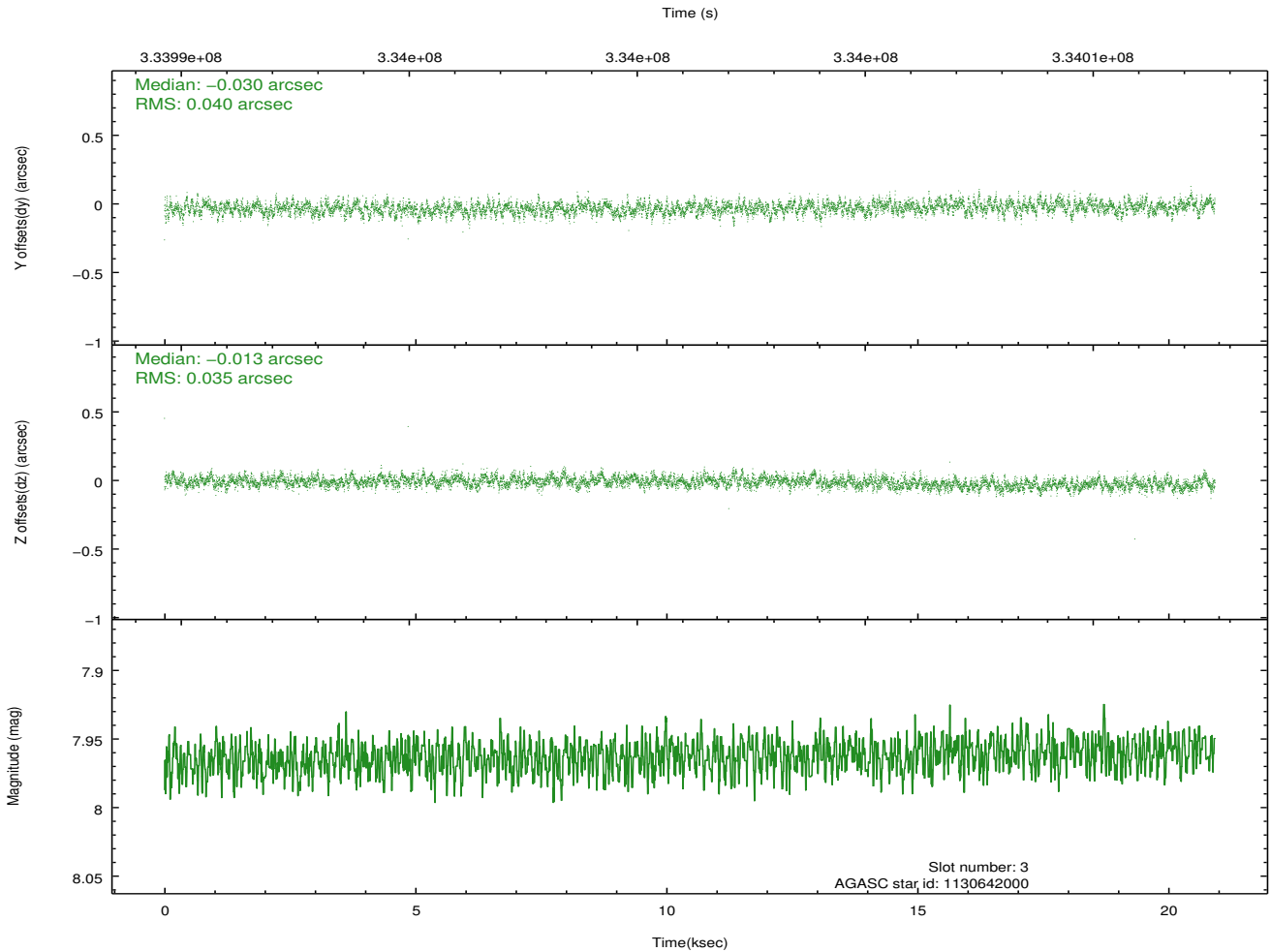
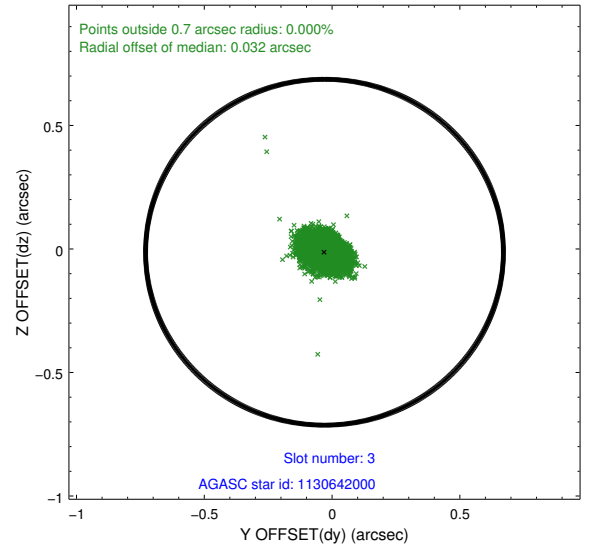
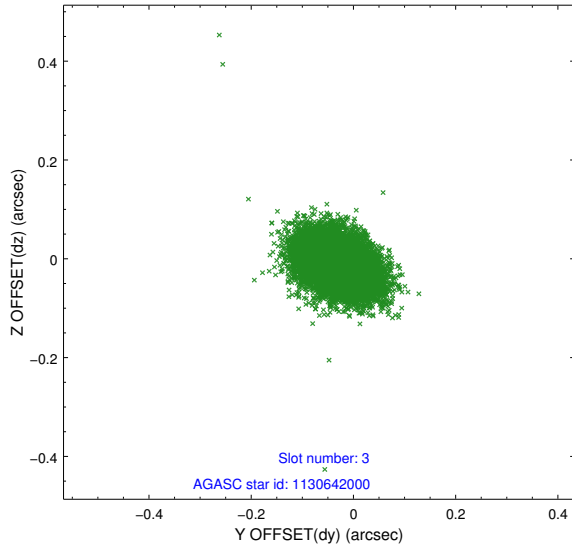


### Slot Statistics

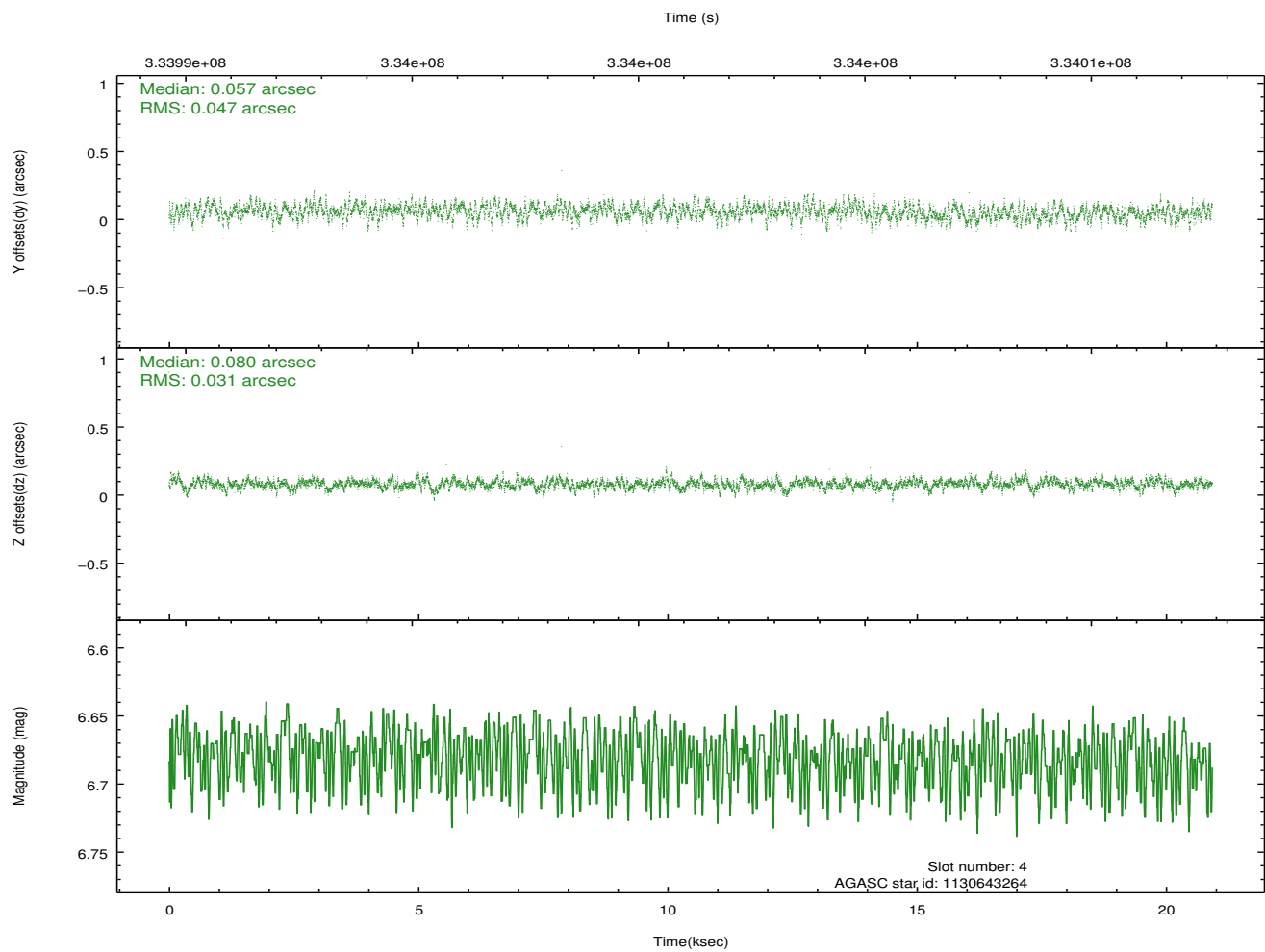
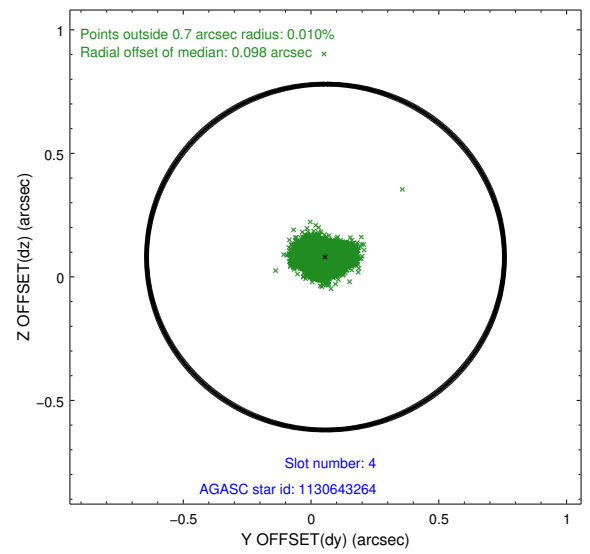
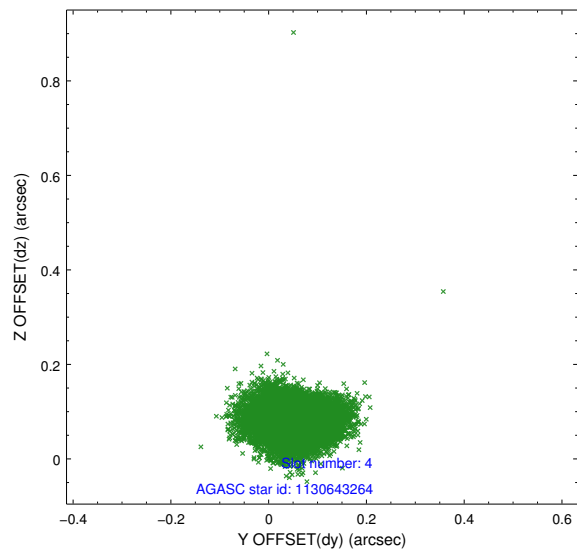
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.97	5103	-0.074	-0.057	0.019	0.031	0.000000	0.000000	-768.88	-845.43
1	FID	ACIS-I-4	6.97	5104	0.159	0.062	0.019	0.029	0.000000	0.000000	2145.32	1060.79
2	FID	ACIS-I-5	7.03	5104	-0.186	0.063	0.022	0.034	0.000000	0.000000	-1822.61	1058.81
3	GUIDE	1130642000	7.96	10207	-0.030	-0.013	0.056	0.092	162.836255	-59.743891	-1513.81	2005.05
4	GUIDE	1130643264	6.68	10209	0.057	0.080	0.059	0.099	160.322990	-59.676912	2226.42	-619.82
5	GUIDE	1130647960	8.63	10200	0.071	-0.101	0.084	0.134	160.287471	-59.247776	1488.23	-1978.75
6	GUIDE	1130636432	8.87	10205	-0.054	0.086	0.075	0.122	162.263589	-58.895452	-2288.12	-1131.39
7	GUIDE	1174033144	8.41	10206	-0.045	-0.050	0.069	0.111	161.168741	-60.059230	1635.98	1350.07

## 2.4 Star Slots

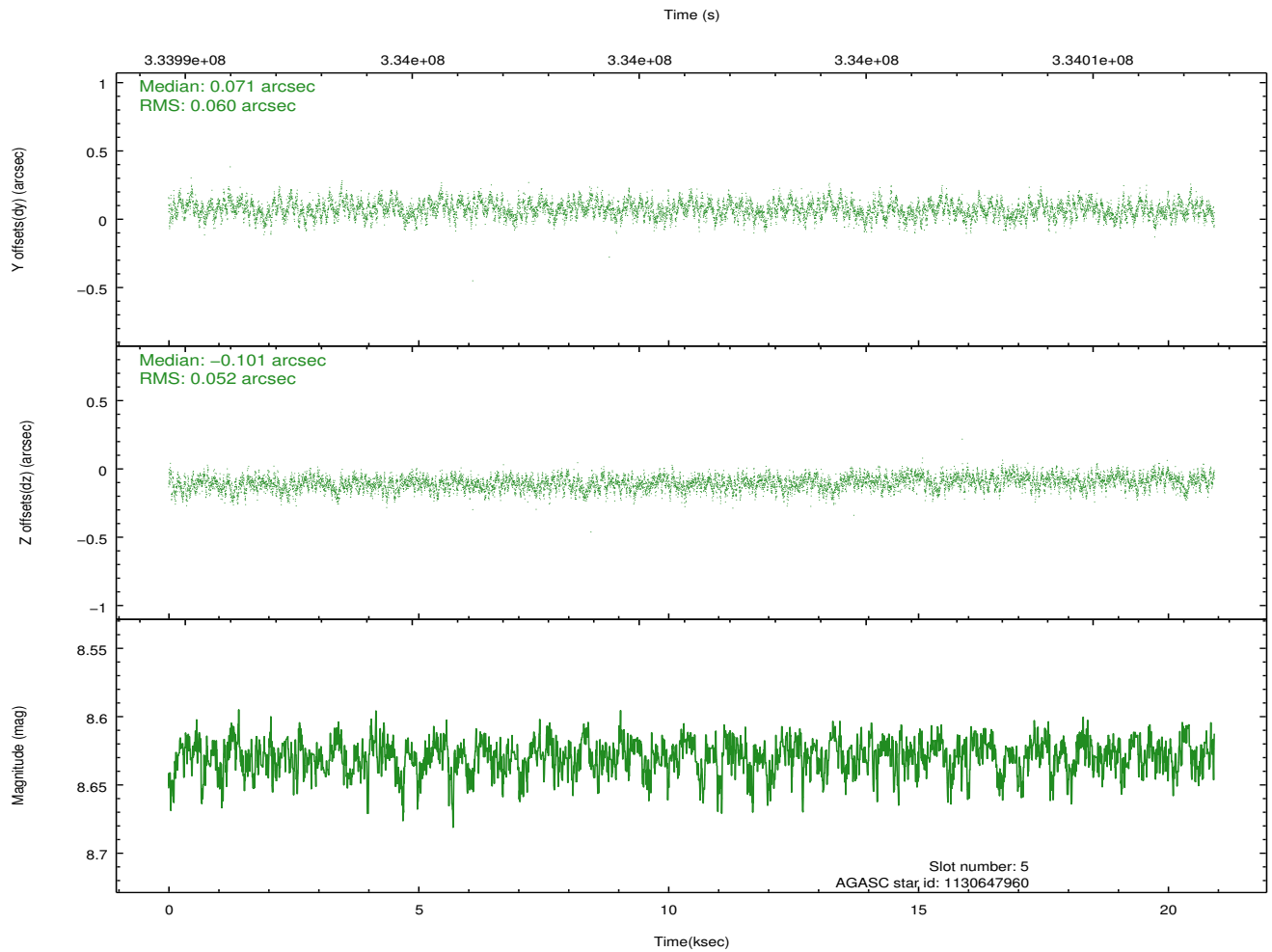
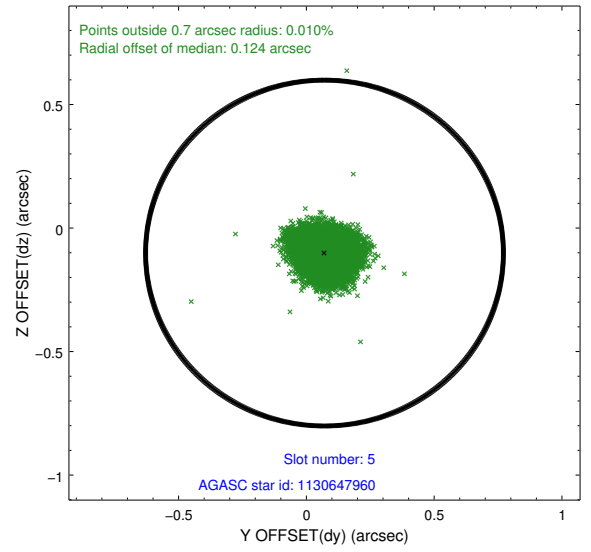
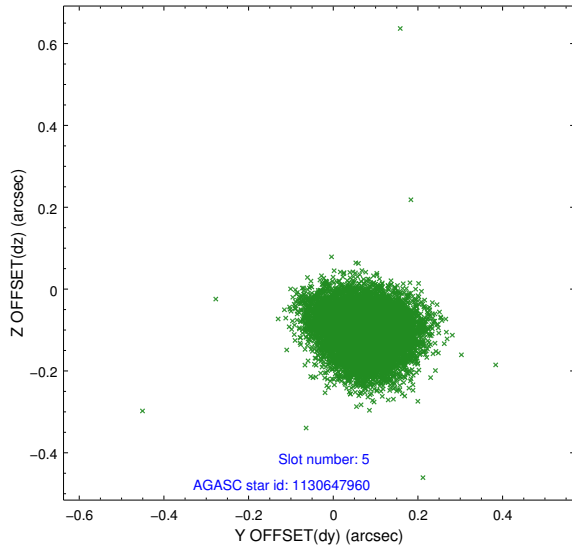
### 2.4.1 Slot 3



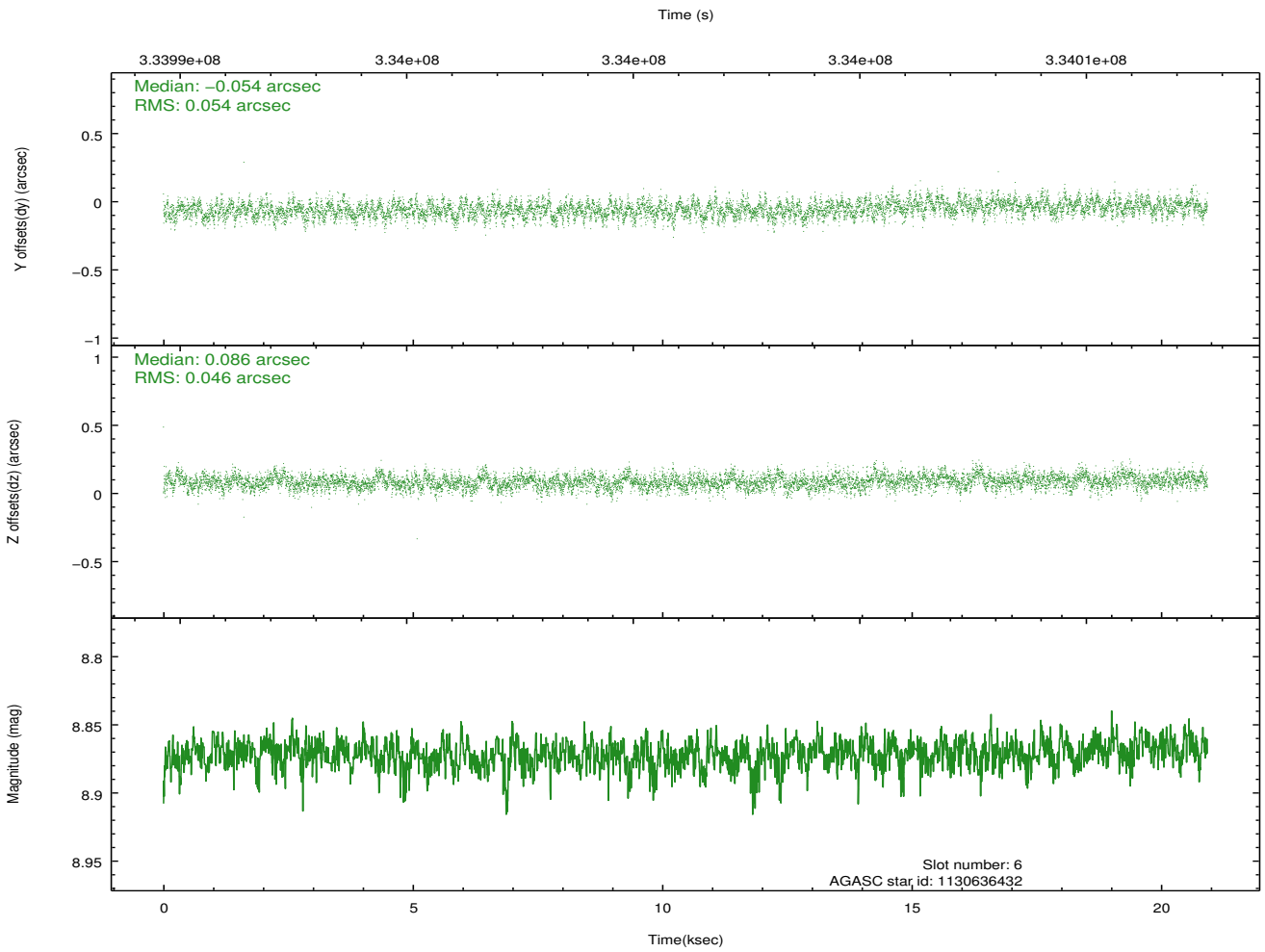
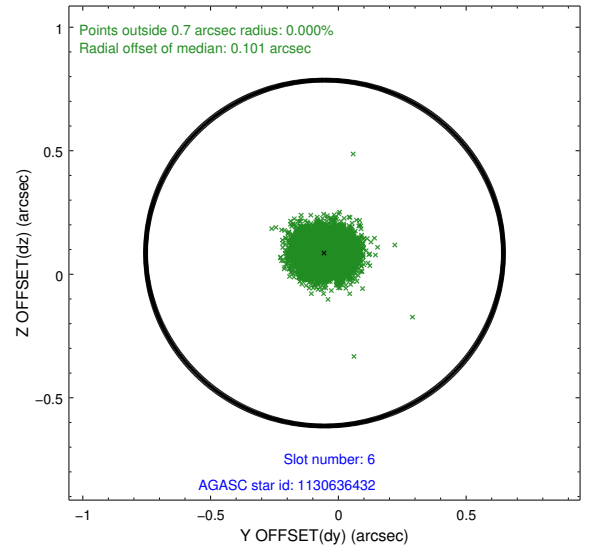
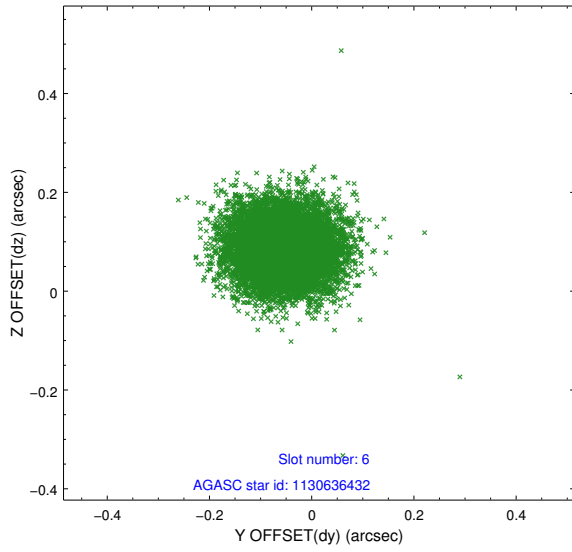
## 2.4.2 Slot 4



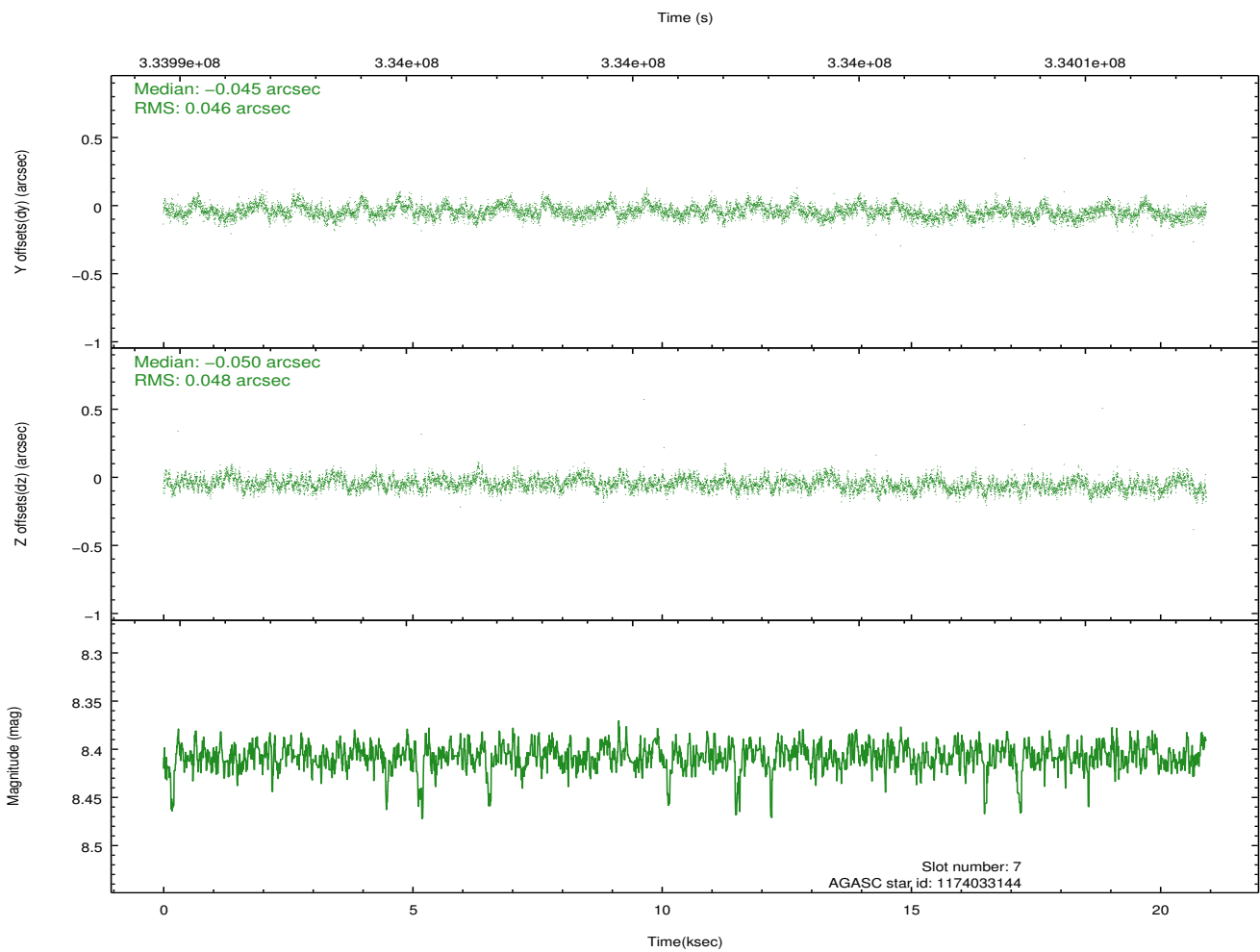
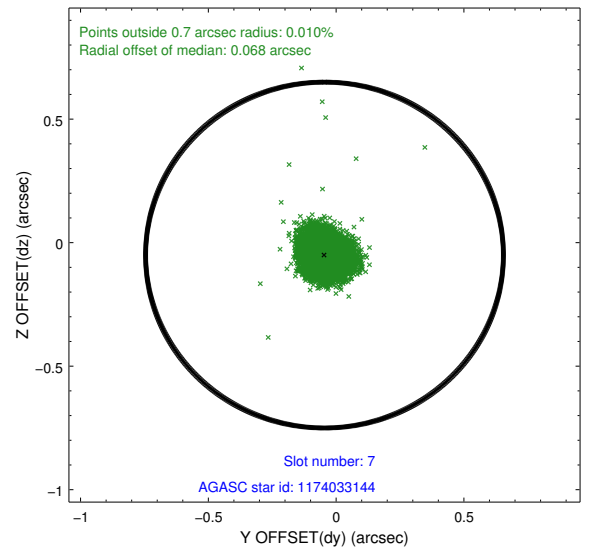
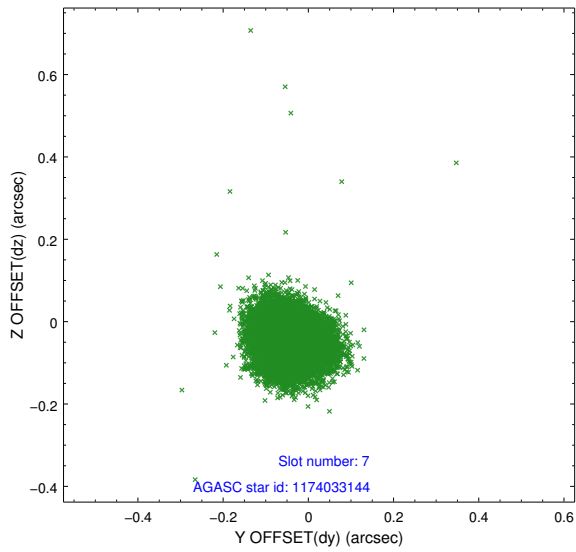
### 2.4.3 Slot 5



### 2.4.4 Slot 6

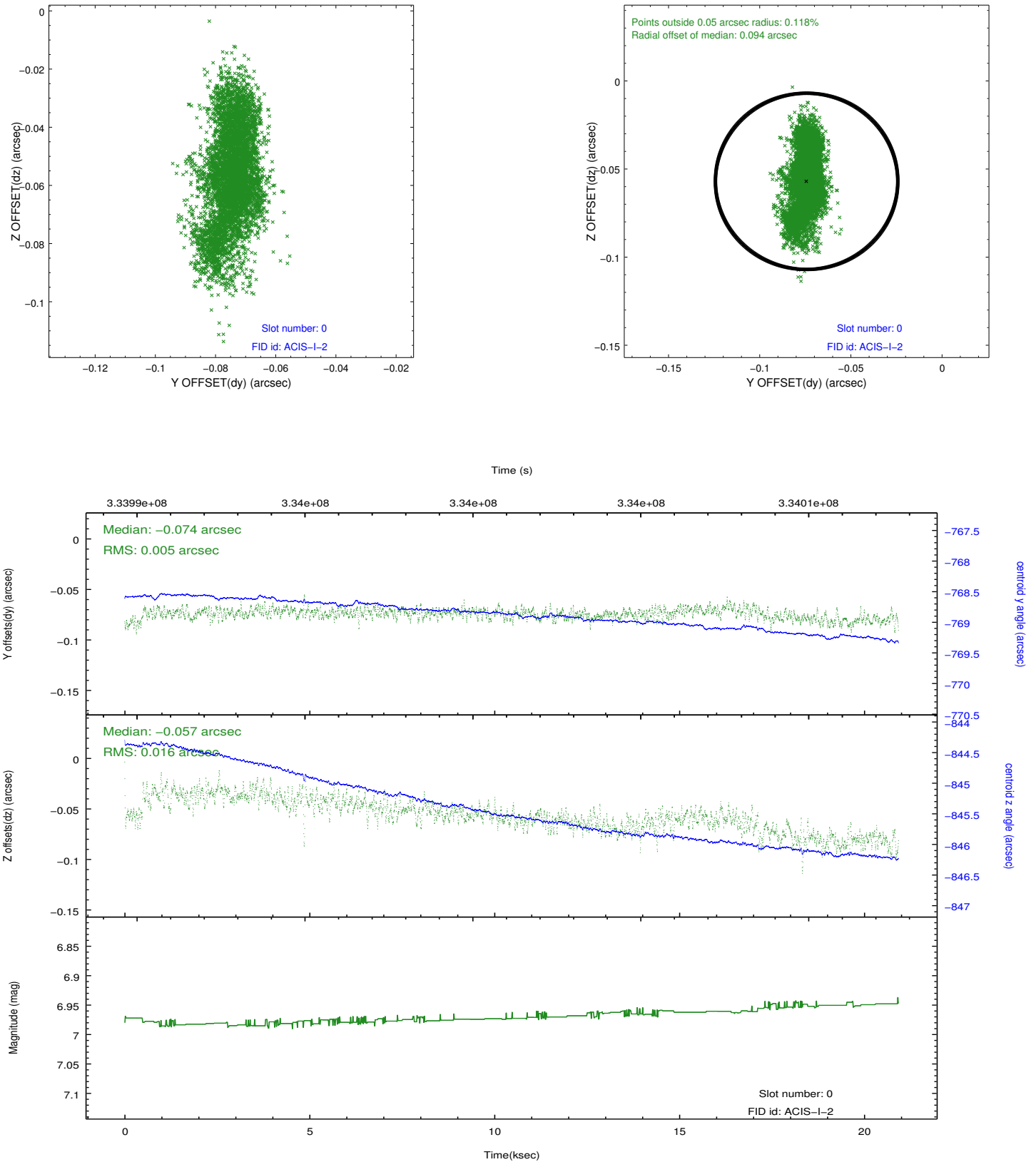


## 2.4.5 Slot 7

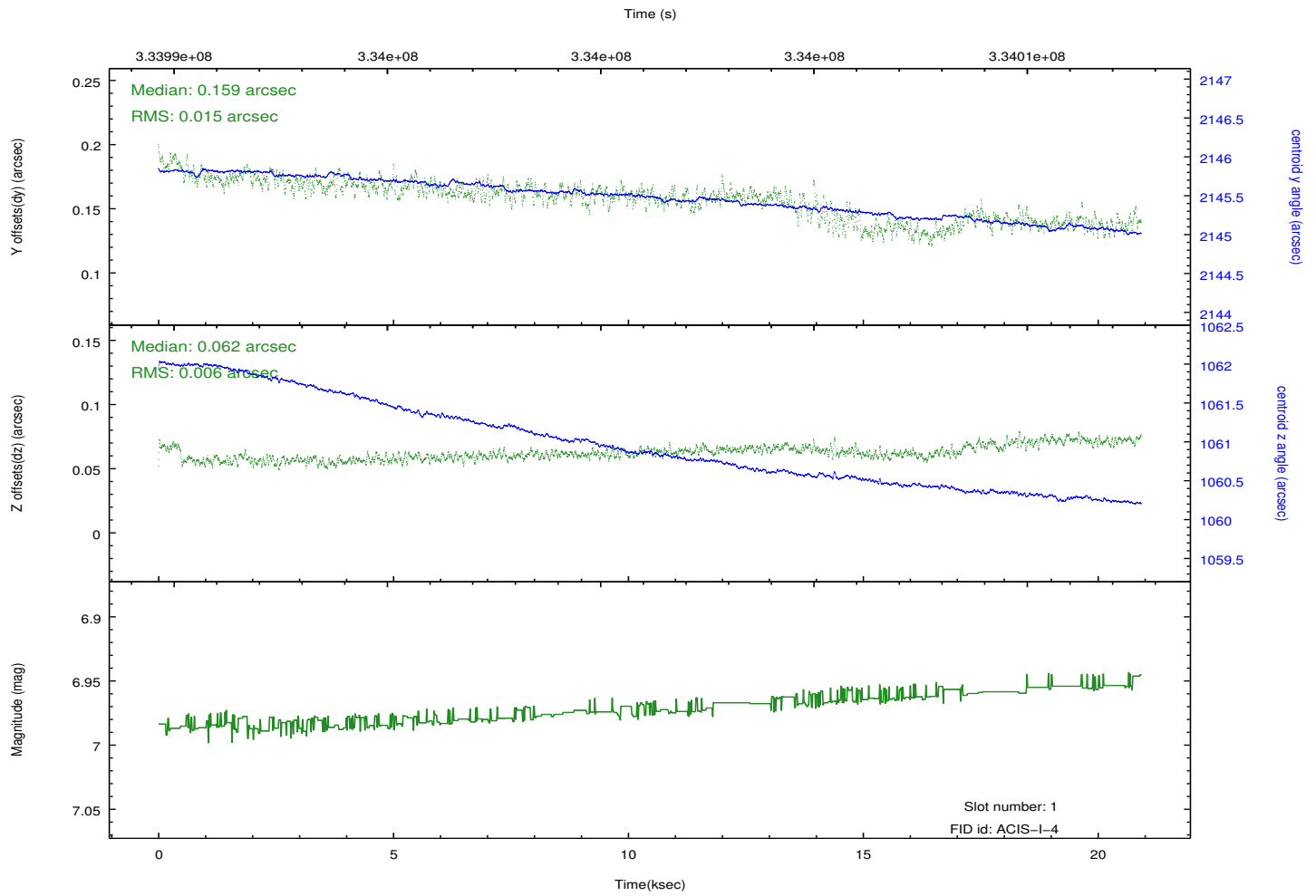
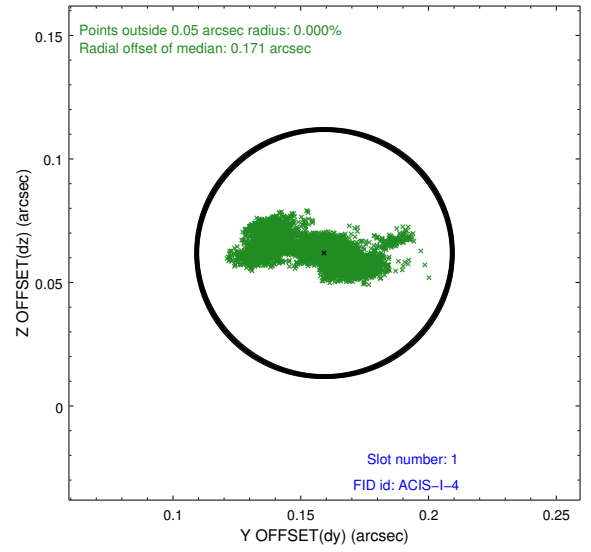
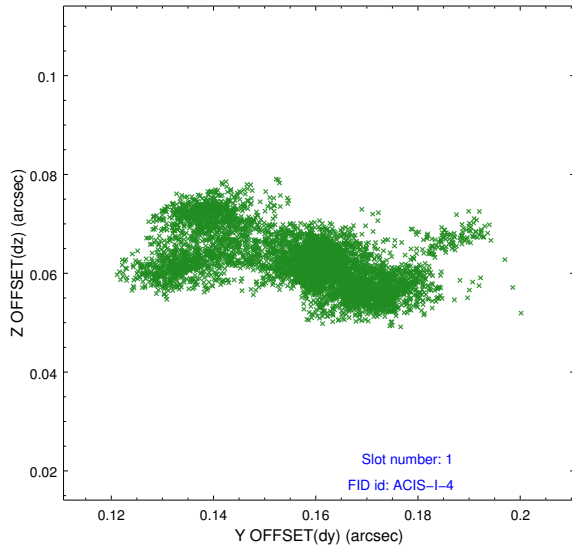


## 2.5 FID Slots

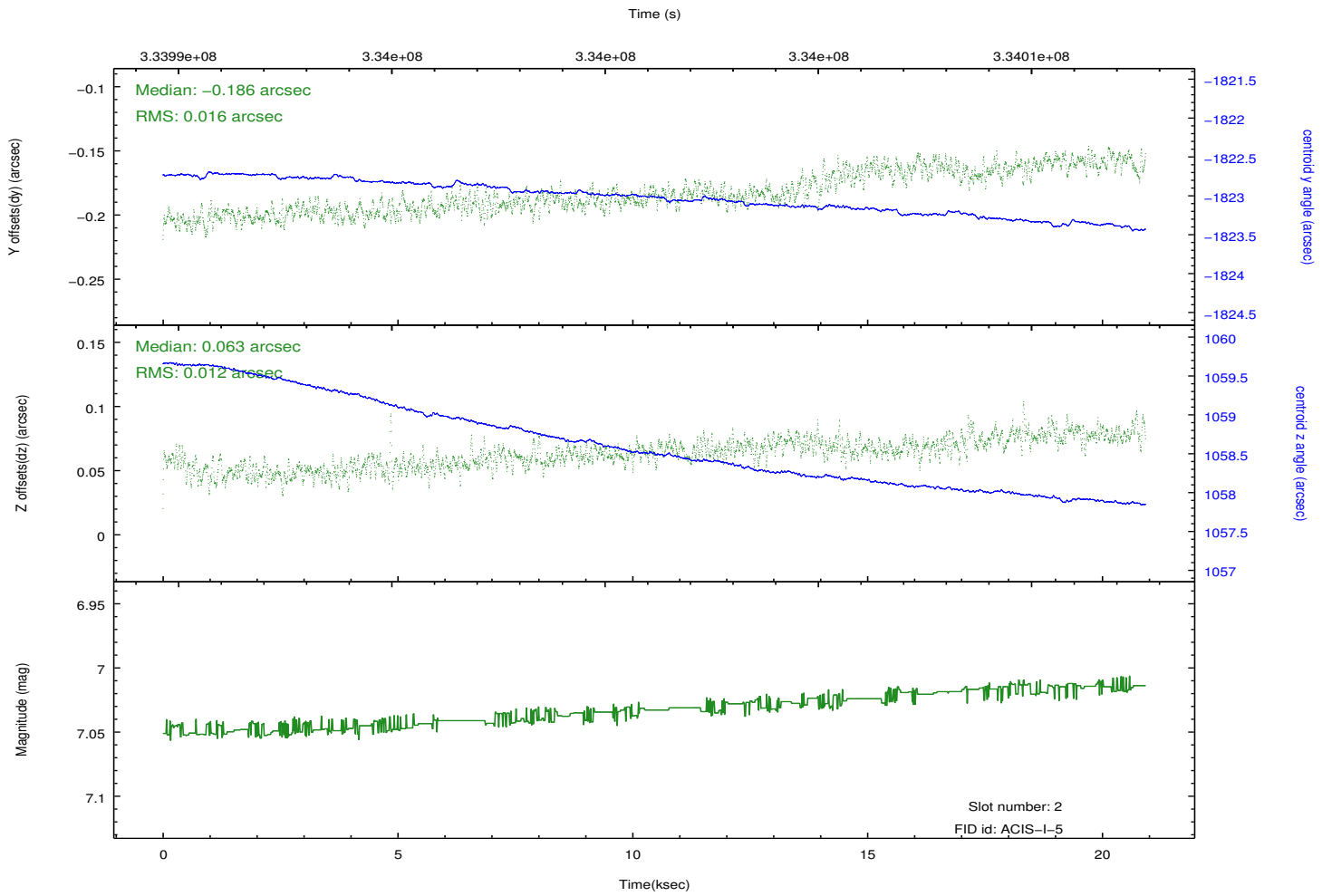
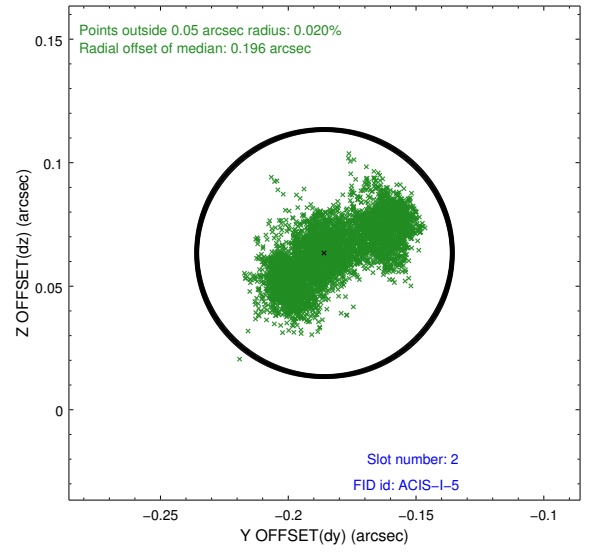
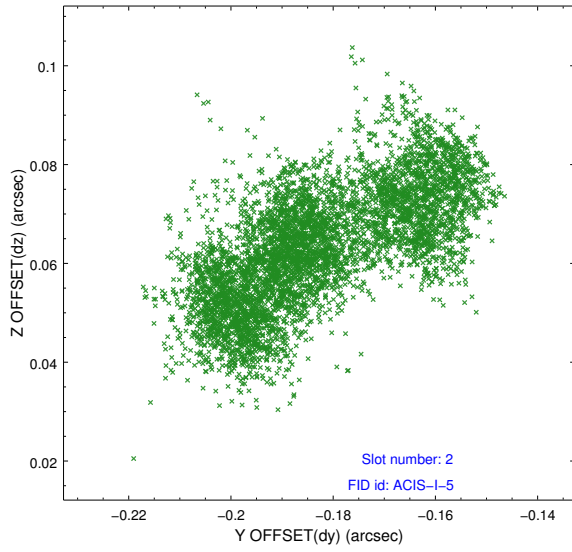
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.05.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.9215999

## A.2 Comments