

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3945 - L2 Version 3  
Chandra X-Ray Center

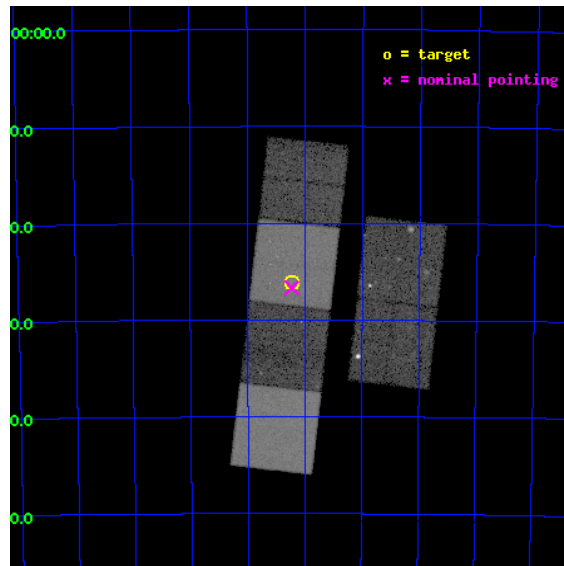
L2 Processing Date : Oct 24 2012

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# 1 Front

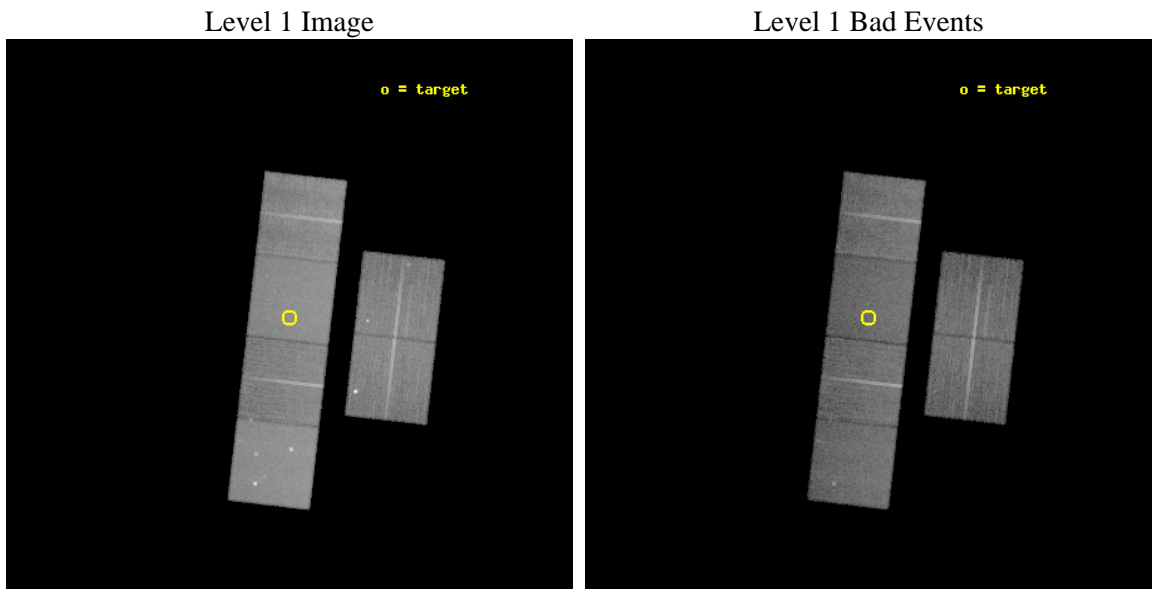
seq_num	600319	Sequence number
obs_id	3945	Observation id
title	CHANDRA OBSERVATIONS OF RICH LMC STAR CLUSTERS	Proposal title
observer	Dr Andrea Prestwich	Principal investigator
object	NGC 1818	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	76.058333	Observer's specified target RA [deg]
dec_targ	-66.435	Observer's specified target Dec [deg]
ra_nom	76.05680234731	Nominal RA [deg]
dec_nom	-66.444657402727	Nominal Dec [deg]
roll_nom	276.53014521406	Nominal Roll [deg]
revision	3	Processing version of data
ontime	24959.006902009	Sum of GTIs [s]
livetime	24642.960928106	Livetime [s]
ontime2	24959.047942013	Sum of GTIs [s]
ontime3	24958.883781999	Sum of GTIs [s]
ontime5	24958.965862006	Sum of GTIs [s]
ontime6	24958.924822003	Sum of GTIs [s]
ontime7	24959.006902009	Sum of GTIs [s]
ontime8	24958.842742026	Sum of GTIs [s]
l2events	266208	Number of level 2 events



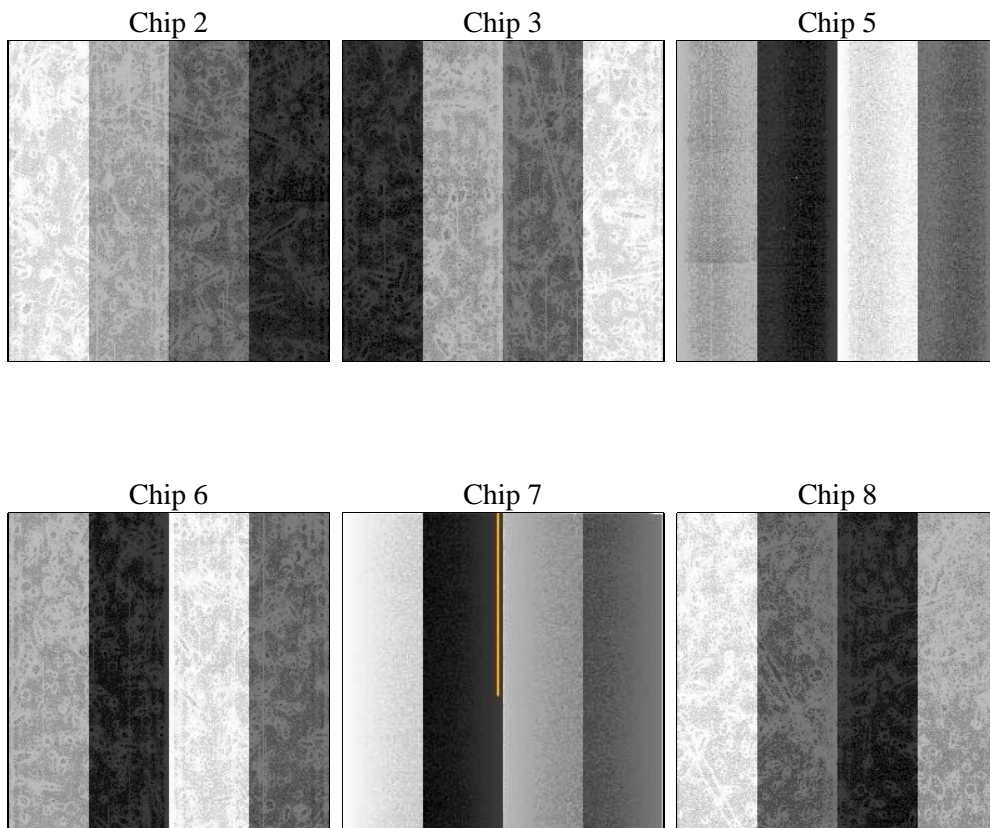
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	24959.006902009	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	24959.047942013	Sum of GTIs [s]
date	2012-10-24T14:10:38	Date and time of file creation	ontime3	24958.883781999	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	24958.965862006	Sum of GTIs [s]
			ontime6	24958.924822003	Sum of GTIs [s]
			ontime7	24959.006902009	Sum of GTIs [s]
			ontime8	24958.842742026	Sum of GTIs [s]
			l1events	1139478	Number of level 1 events

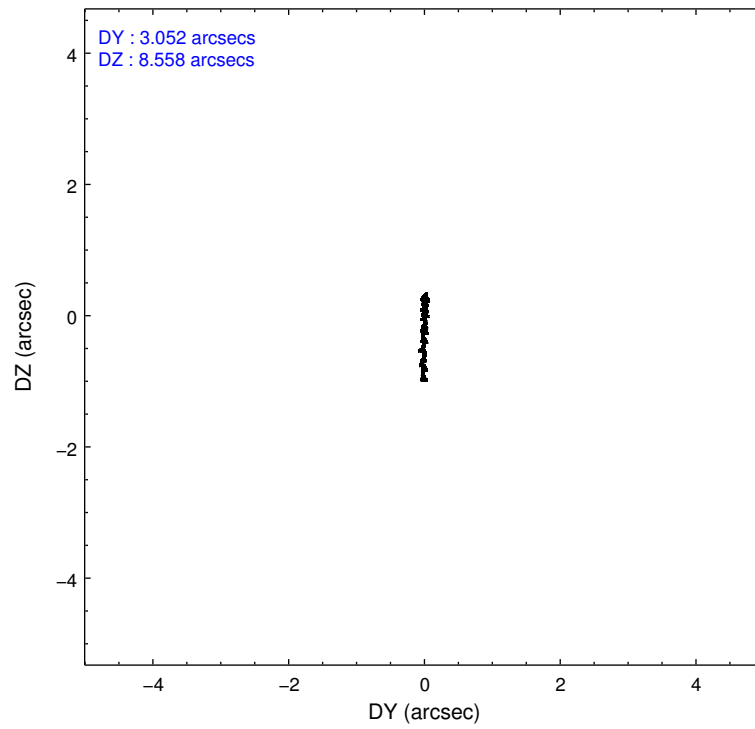
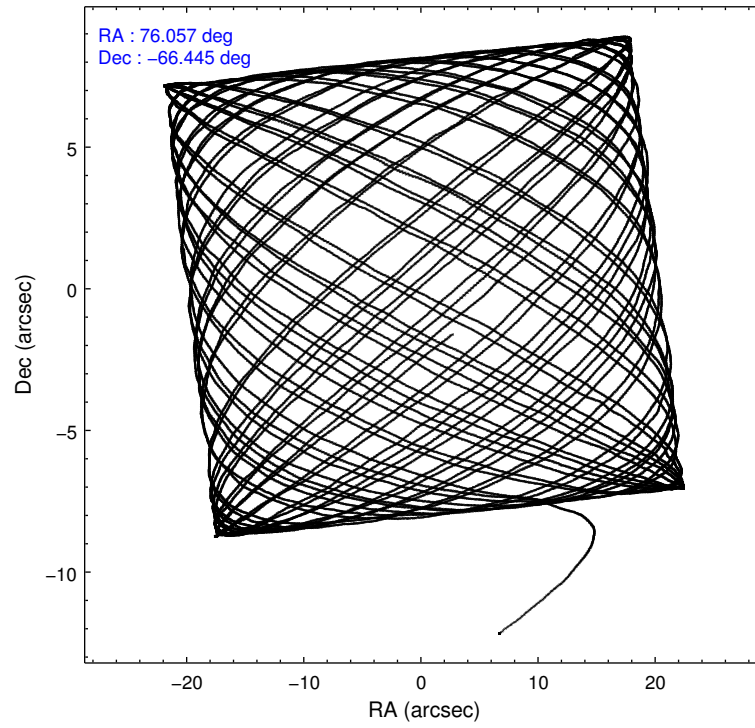
### 2.1.4 Events

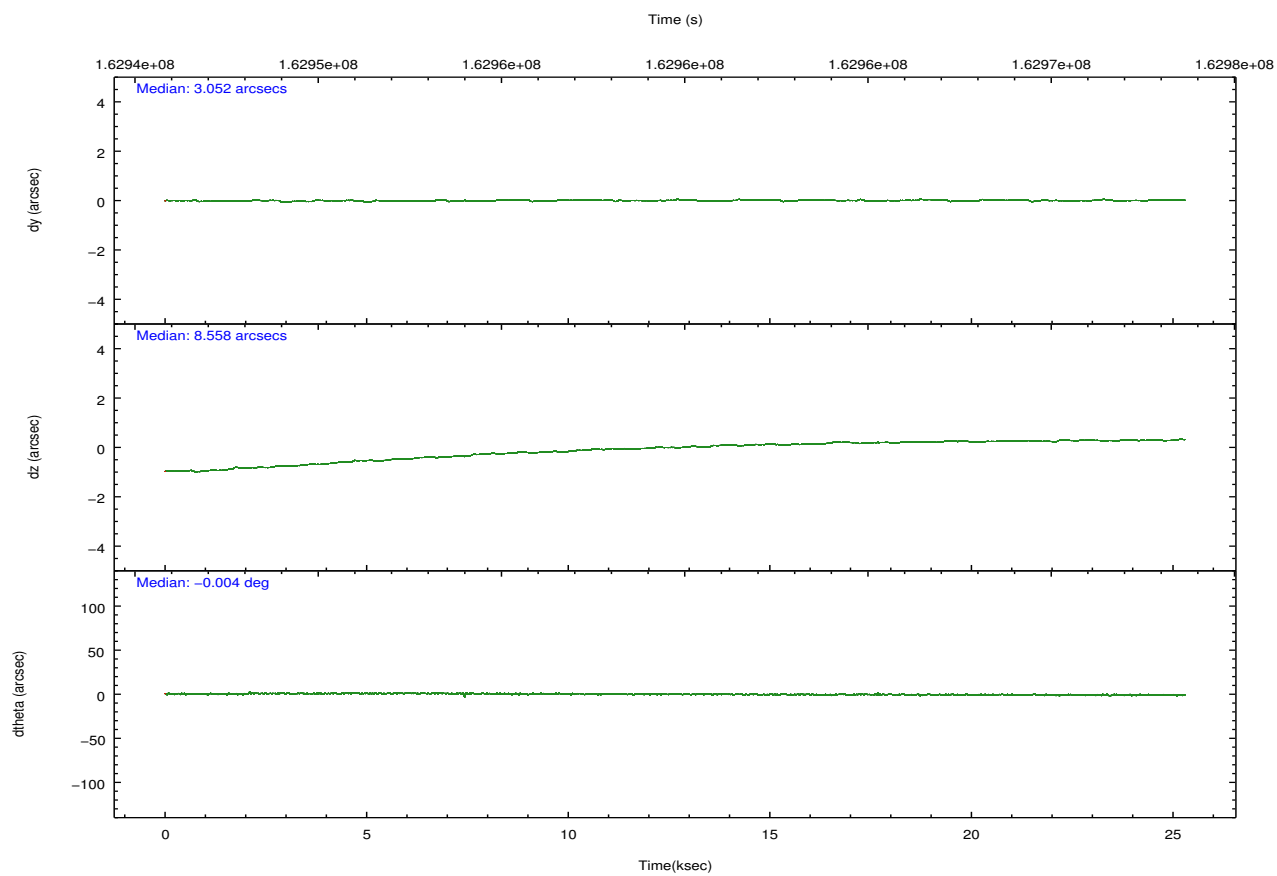
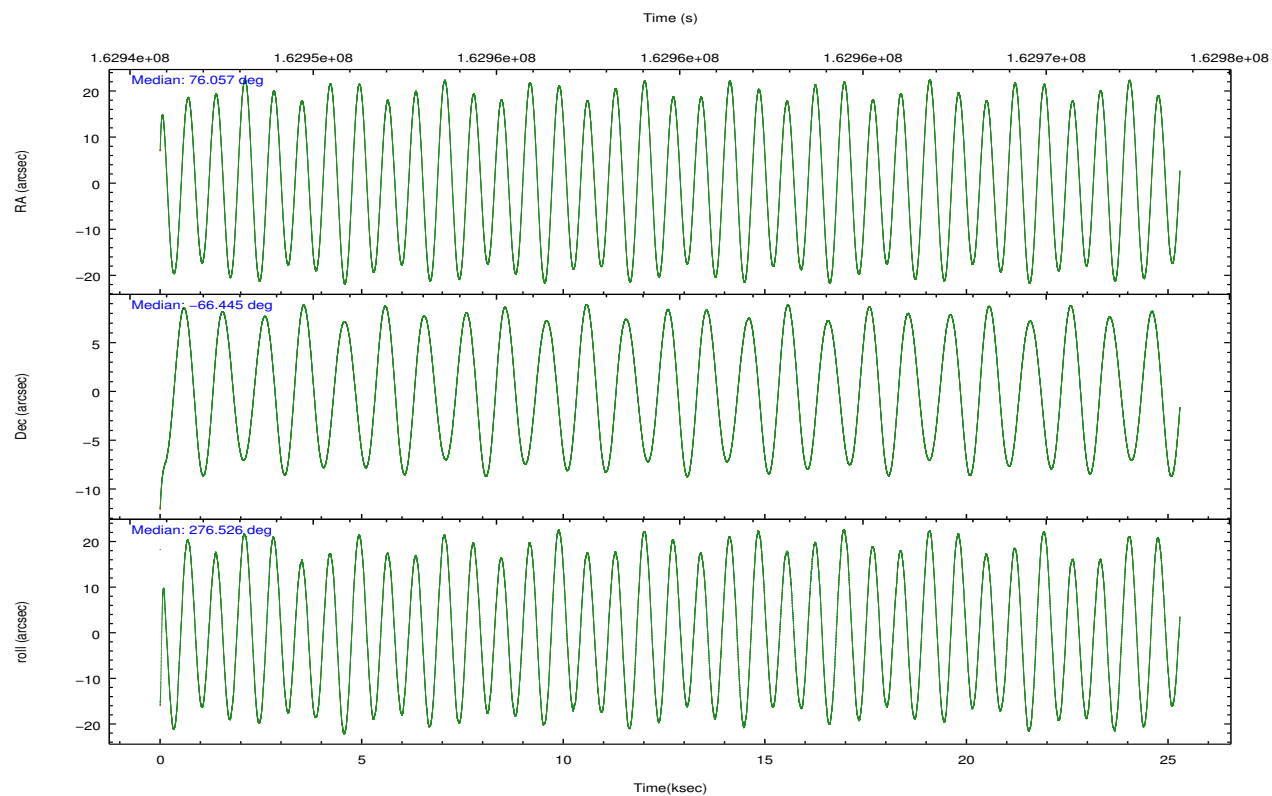
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	169459	158199	238279	162331	212304	198906	grade 0 events	16309	10768	14687	7744	8219	12966
rejected events	141036	136763	126385	143363	123893	158118		9%	6%	6%	4%	3%	6%
rejected %	83%	86%	53%	88%	58%	79%	grade 1 events	158	98	894	64	186	125
								0%	0%	0%	0%	0%	0%
							grade 2 events	4796	3711	32554	3823	17298	8905
								2%	2%	13%	2%	8%	4%
							grade 3 events	2032	1855	4536	1894	8010	4226
								1%	1%	1%	1%	3%	2%
							grade 4 events	2023	1924	4351	1823	8006	3977
								1%	1%	1%	1%	3%	1%
							grade 5 events	6117	6736	17218	7249	20108	9416
								3%	4%	7%	4%	9%	4%
							grade 6 events	3271	3183	55790	3689	46906	10721
								1%	2%	23%	2%	22%	5%
							grade 7 events	134753	129924	108249	136045	103571	148570
								79%	82%	45%	83%	48%	74%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	76.015568	76.05680234731031	Subarray requested	NONE	NONE
[deg] Pointing Dec	-66.422983	-66.44465740272676	Alternating exposures requested	N	N
[deg] Pointing Roll	276.335730	276.5301452140627	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	162947383.184000	162946372.1345			
Observation start date	2003-03-01T23:08:39	2003-03-01T22:52:52			
[s] Observation end time (MET)	162972383.184000	162973300.93563			
Observation end date	2003-03-02T06:05:19	2003-03-02T06:21:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect



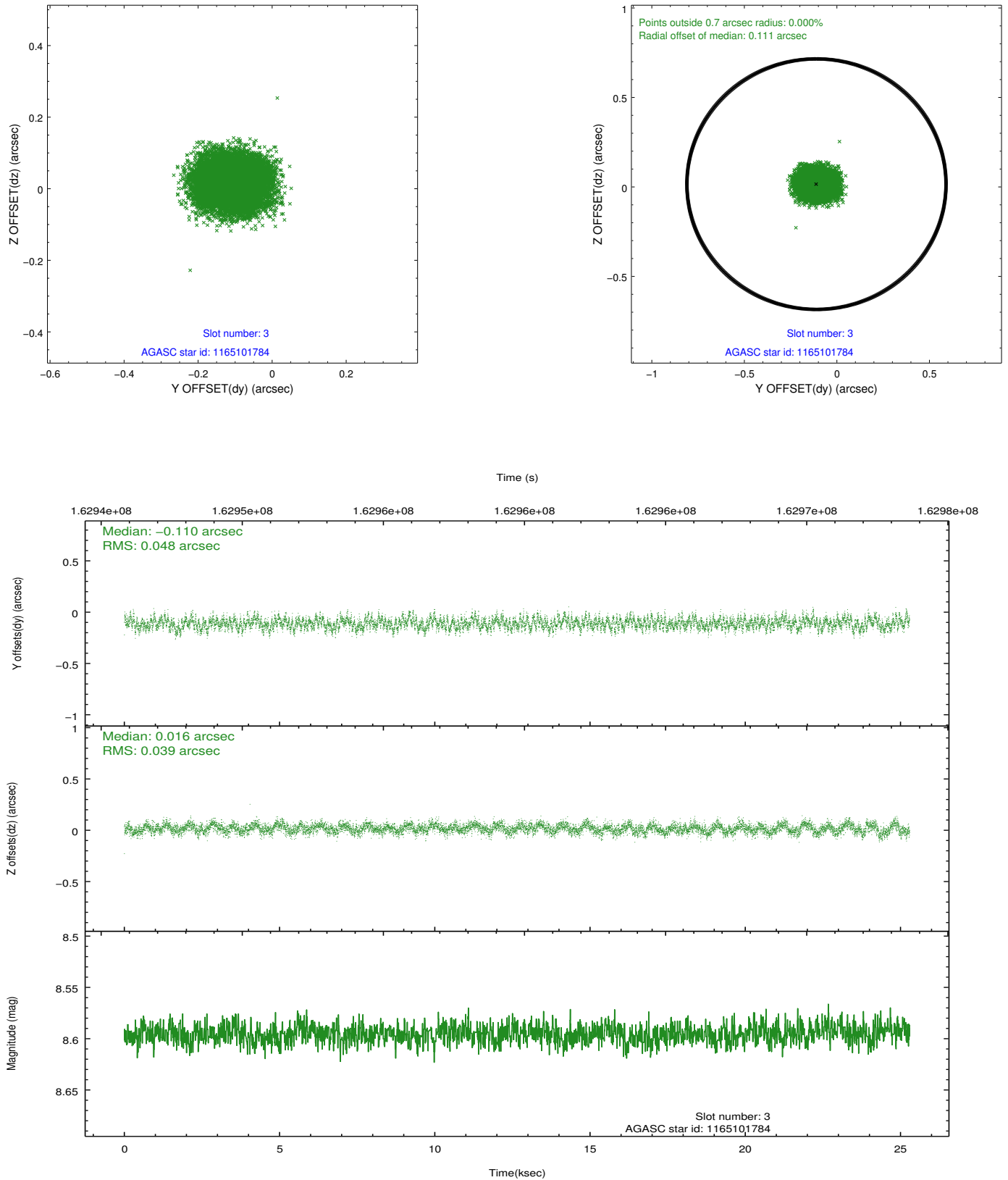


Slot Statistics

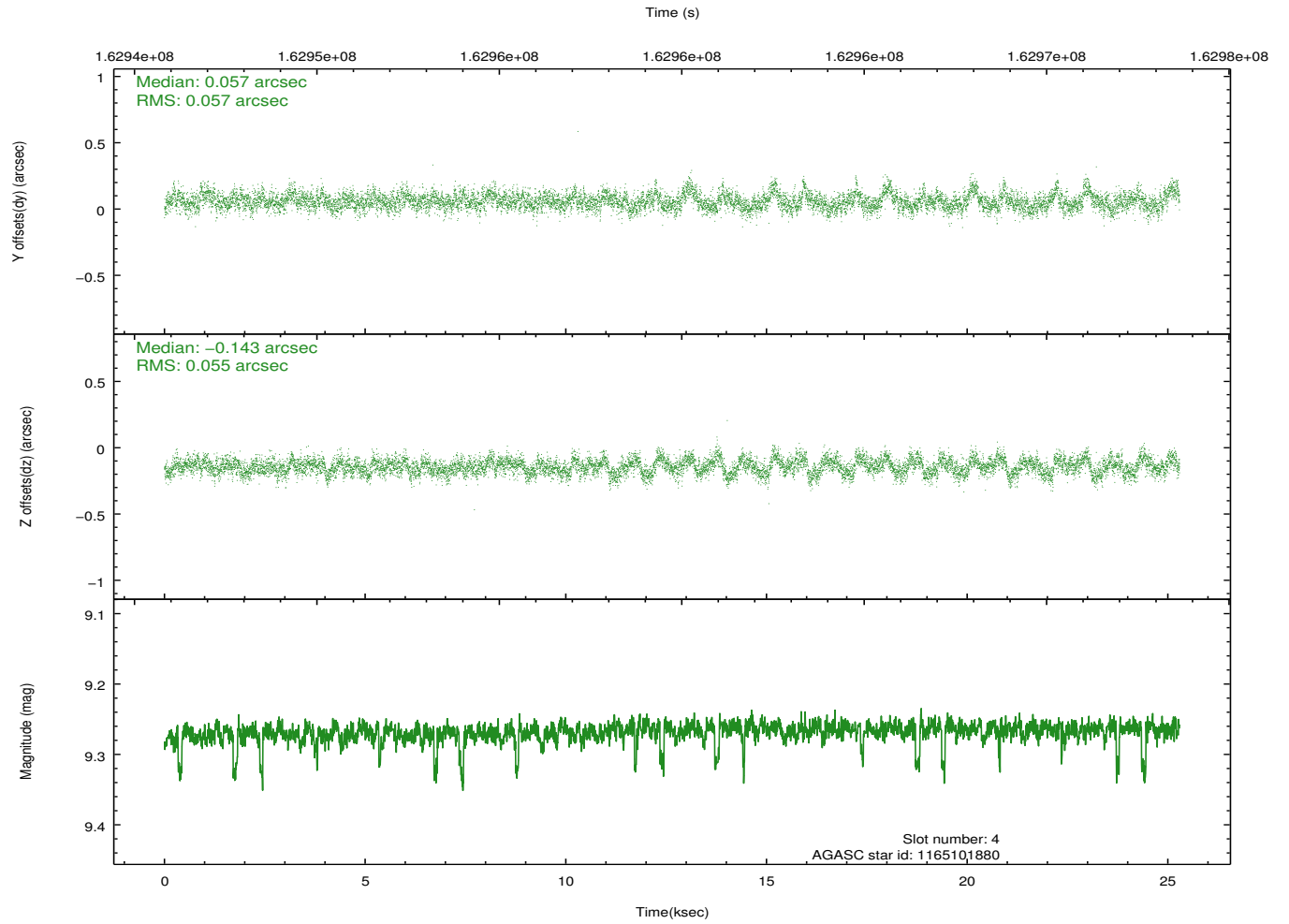
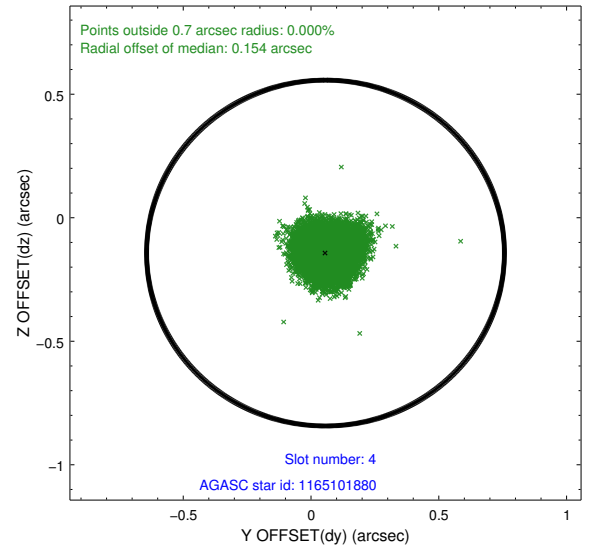
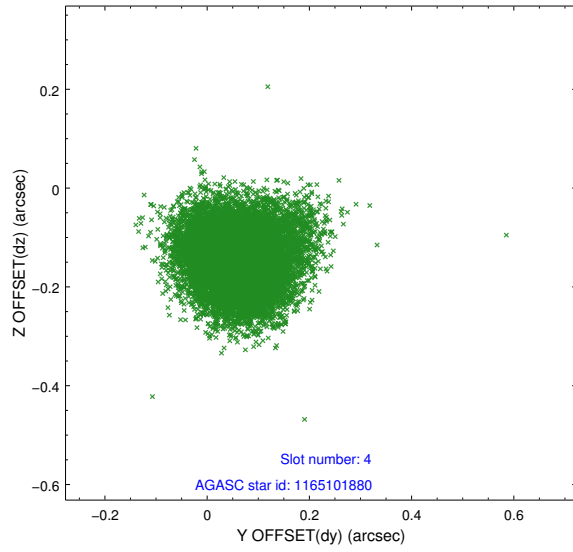
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	6170	-0.024	-0.019	0.010	0.017	0.000000	0.000000	-755.71	-1729.65
1	FID	ACIS-S-4	7.20	6170	0.017	0.017	0.009	0.016	0.000000	0.000000	2157.55	178.75
2	FID	ACIS-S-5	7.24	6170	-0.024	0.011	0.007	0.011	0.000000	0.000000	-1808.41	172.54
3	GUIDE	1165101784	8.60	12339	-0.110	0.016	0.066	0.106	76.588883	-65.966778	-1535.60	1016.40
4	GUIDE	1165101880	9.27	12330	0.057	-0.143	0.083	0.138	76.429271	-66.849074	1591.25	412.91
5	GUIDE	1165102224	9.52	12327	0.056	-0.036	0.094	0.151	75.124856	-66.013882	-1597.95	-1133.78
6	GUIDE	1165103840	9.76	12333	0.009	0.077	0.131	0.212	74.488651	-66.144068	-1216.07	-2101.33
7	GUIDE	1165102624	8.89	12329	-0.008	0.083	0.070	0.113	75.776434	-66.910082	1706.38	-528.75

## 2.4 Star Slots

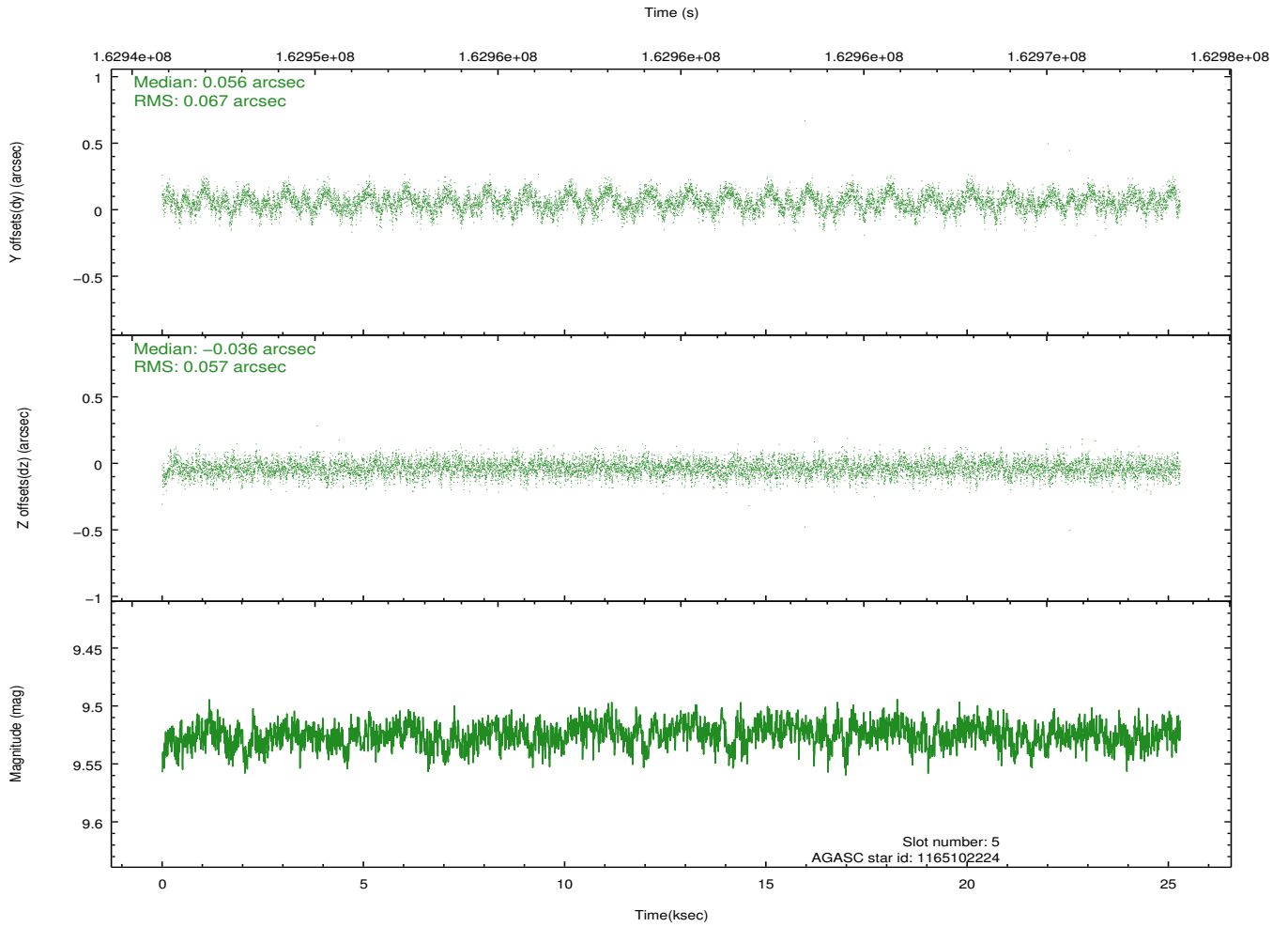
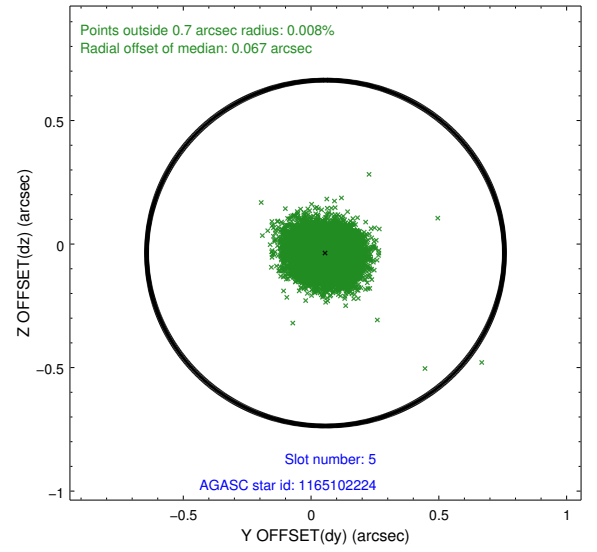
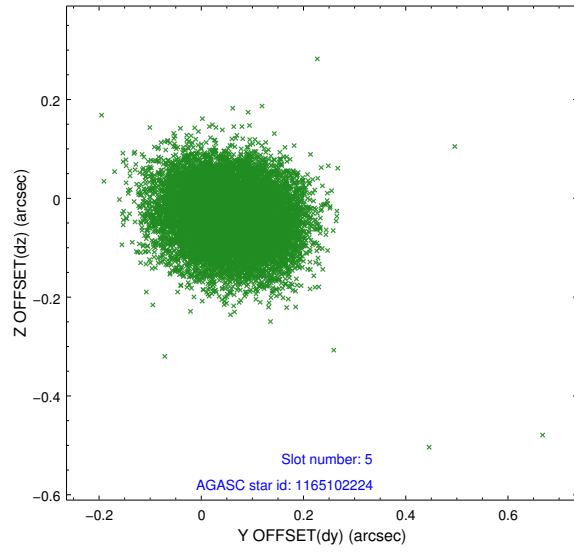
### 2.4.1 Slot 3



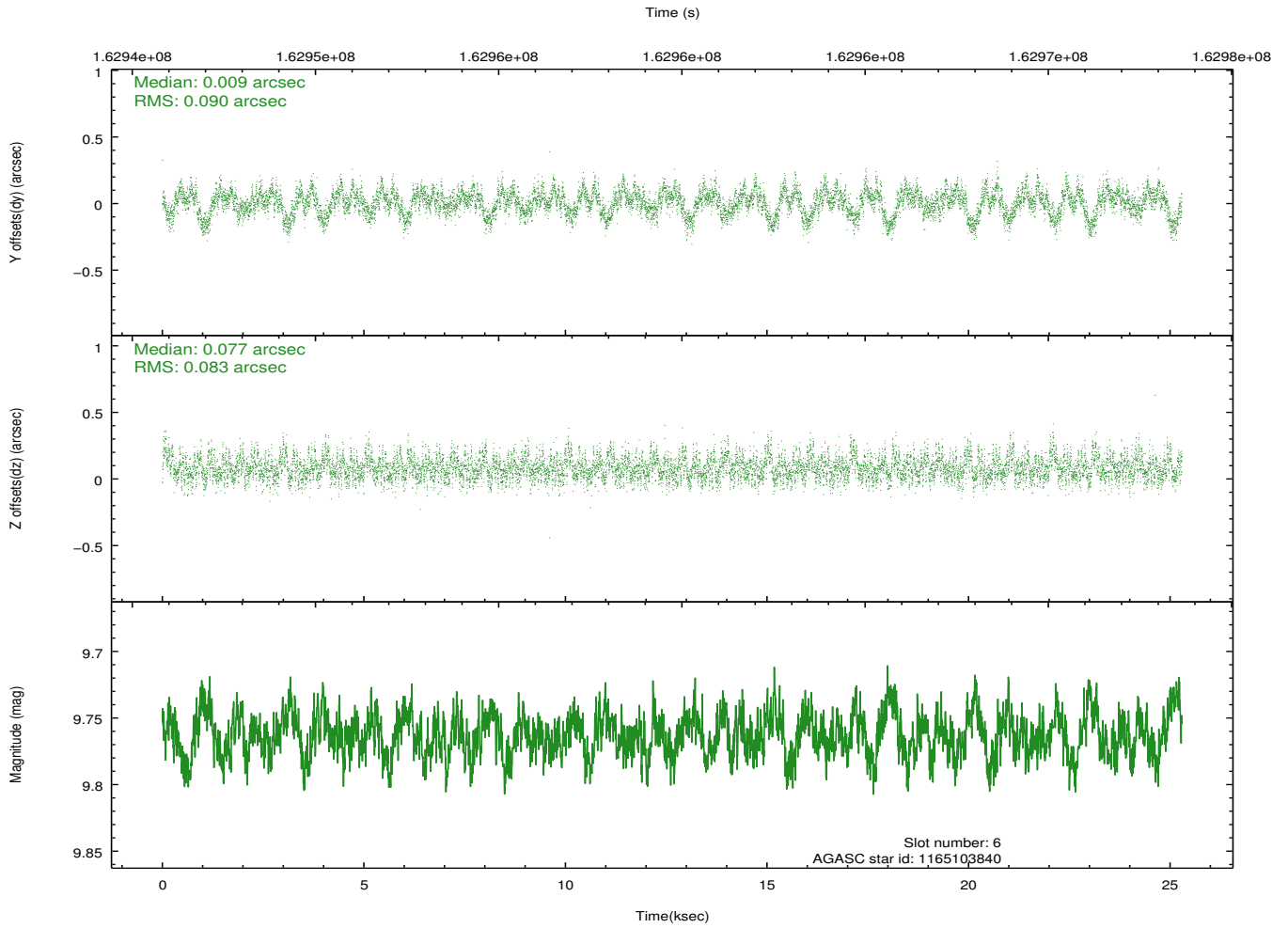
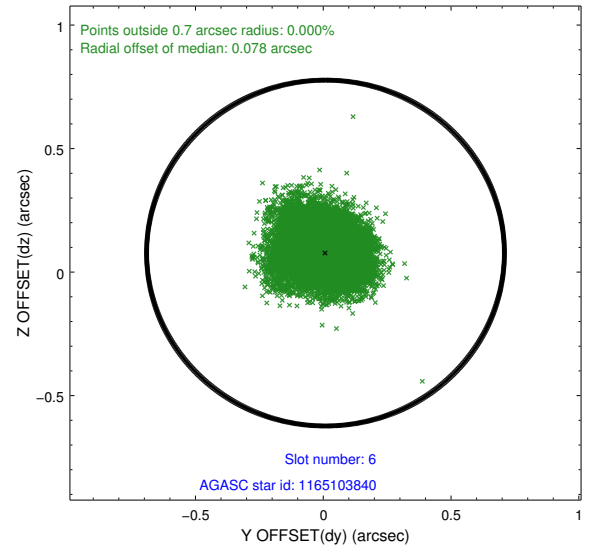
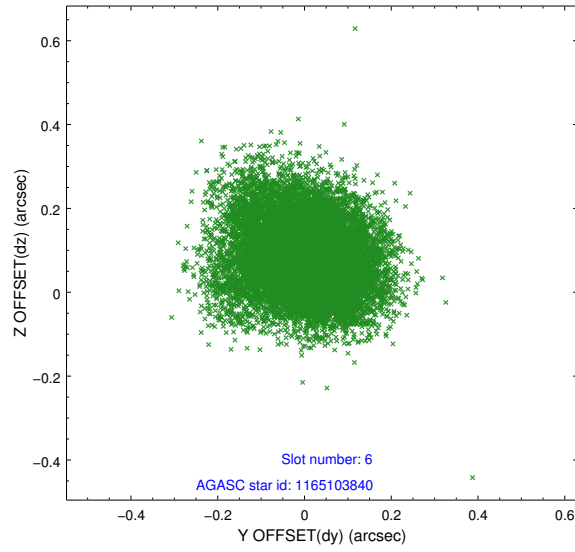
## 2.4.2 Slot 4



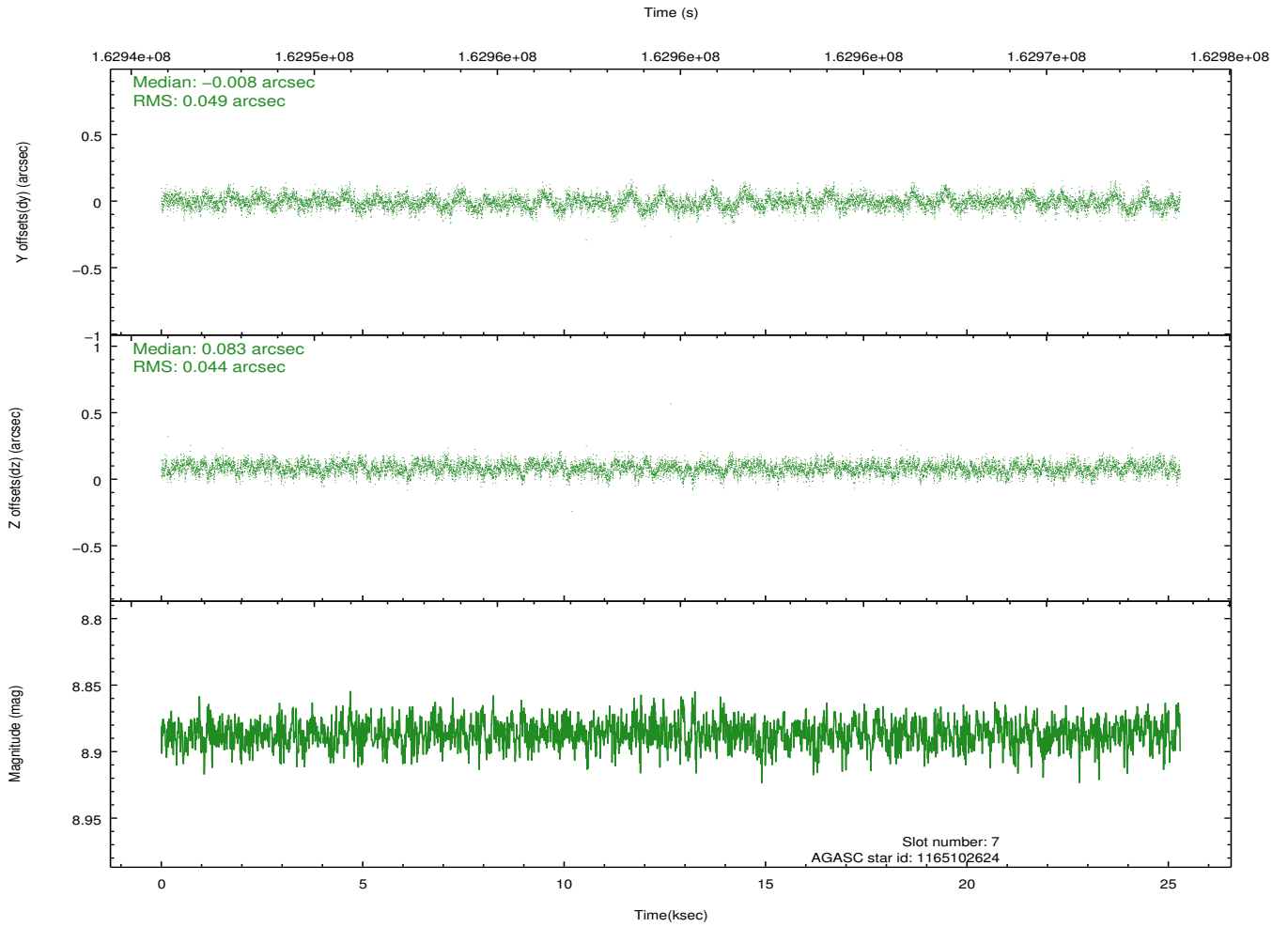
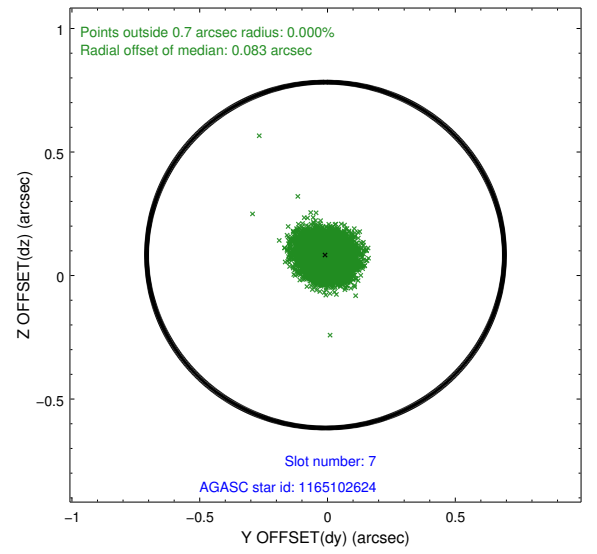
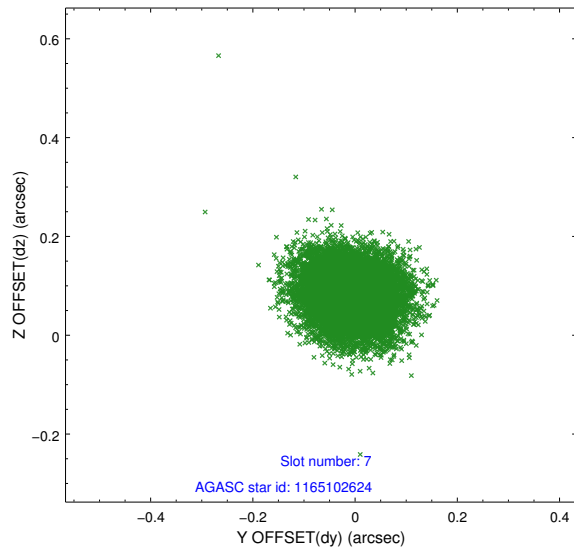
### 2.4.3 Slot 5



## 2.4.4 Slot 6

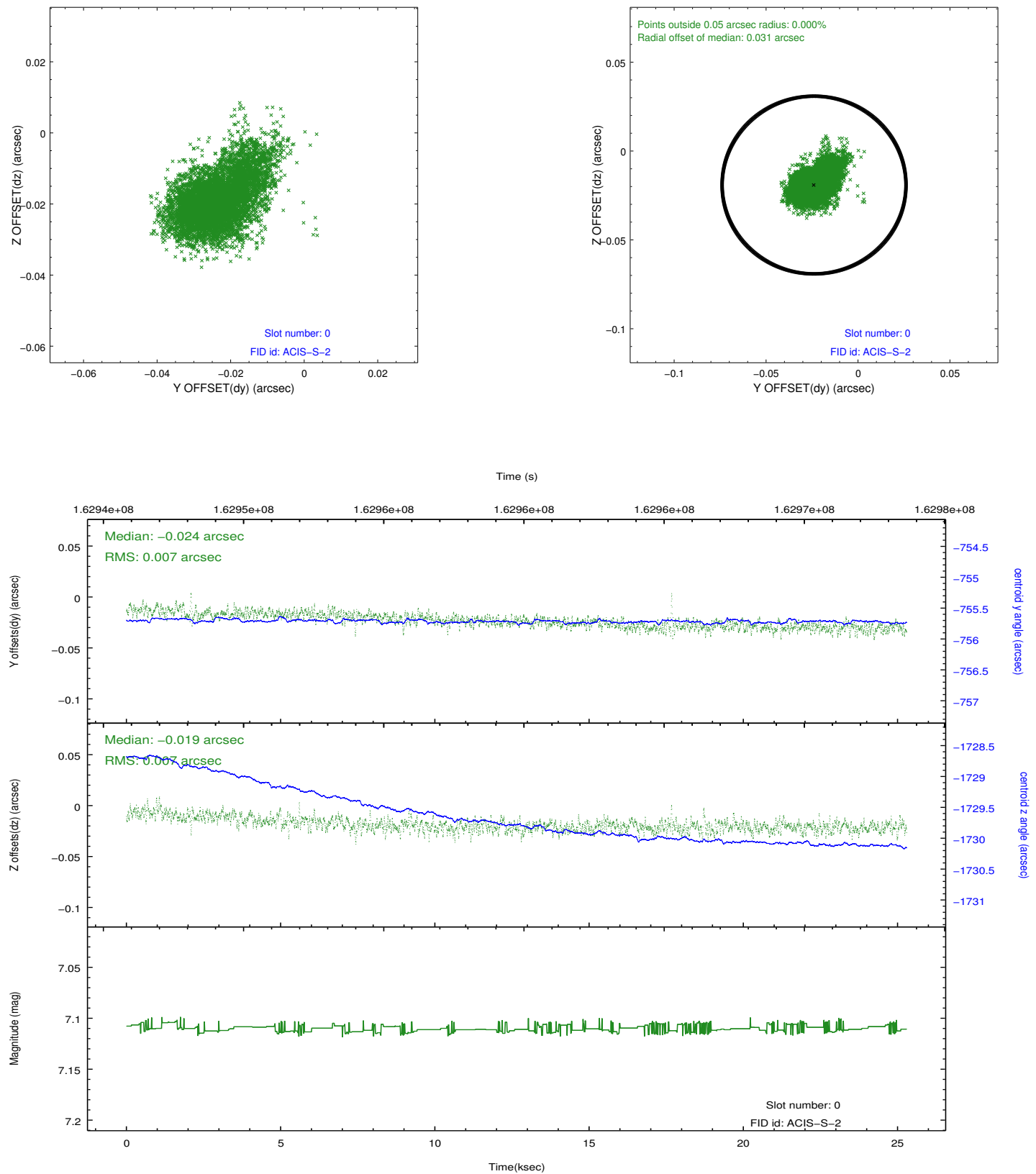


## 2.4.5 Slot 7

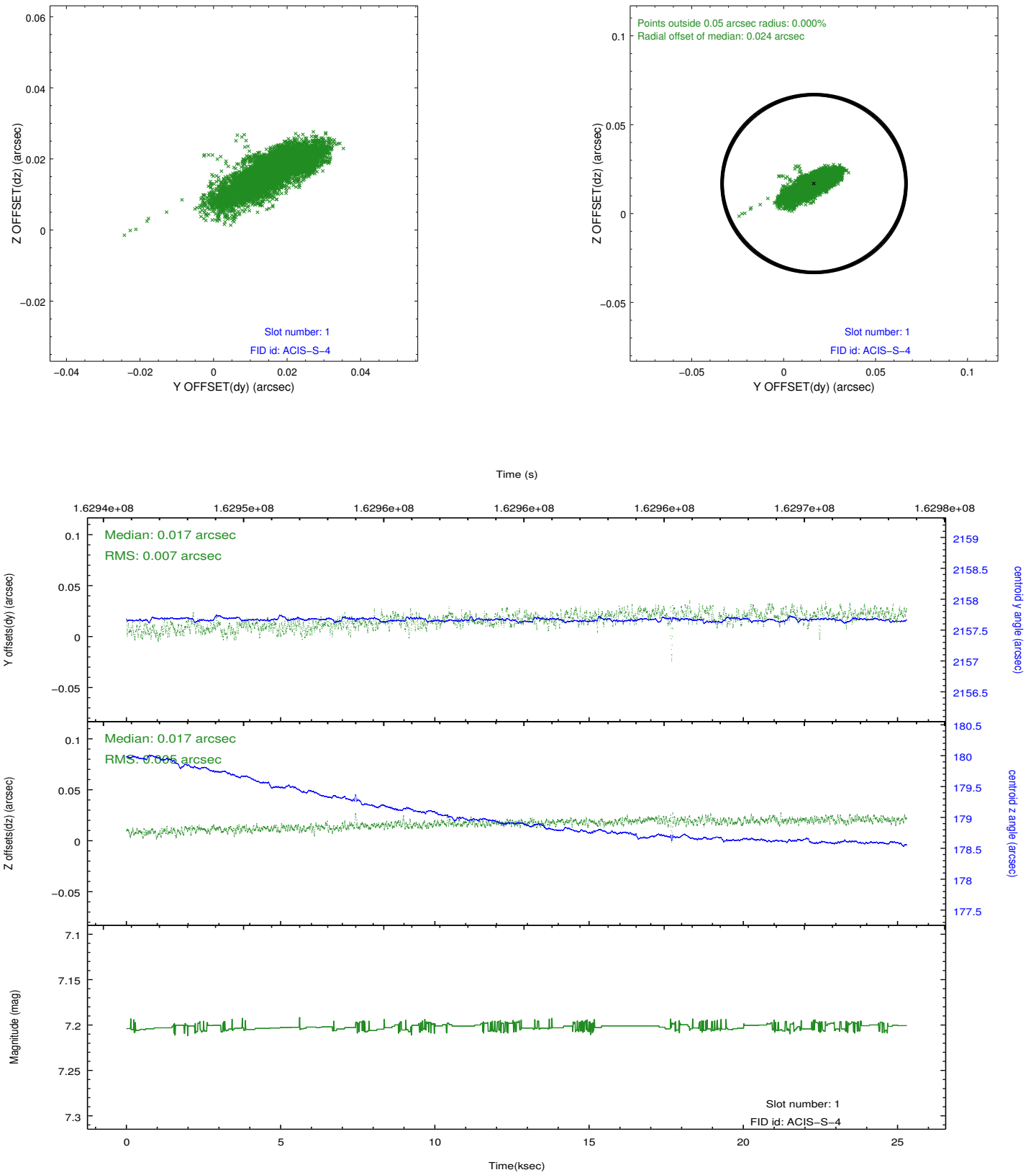


## 2.5 FID Slots

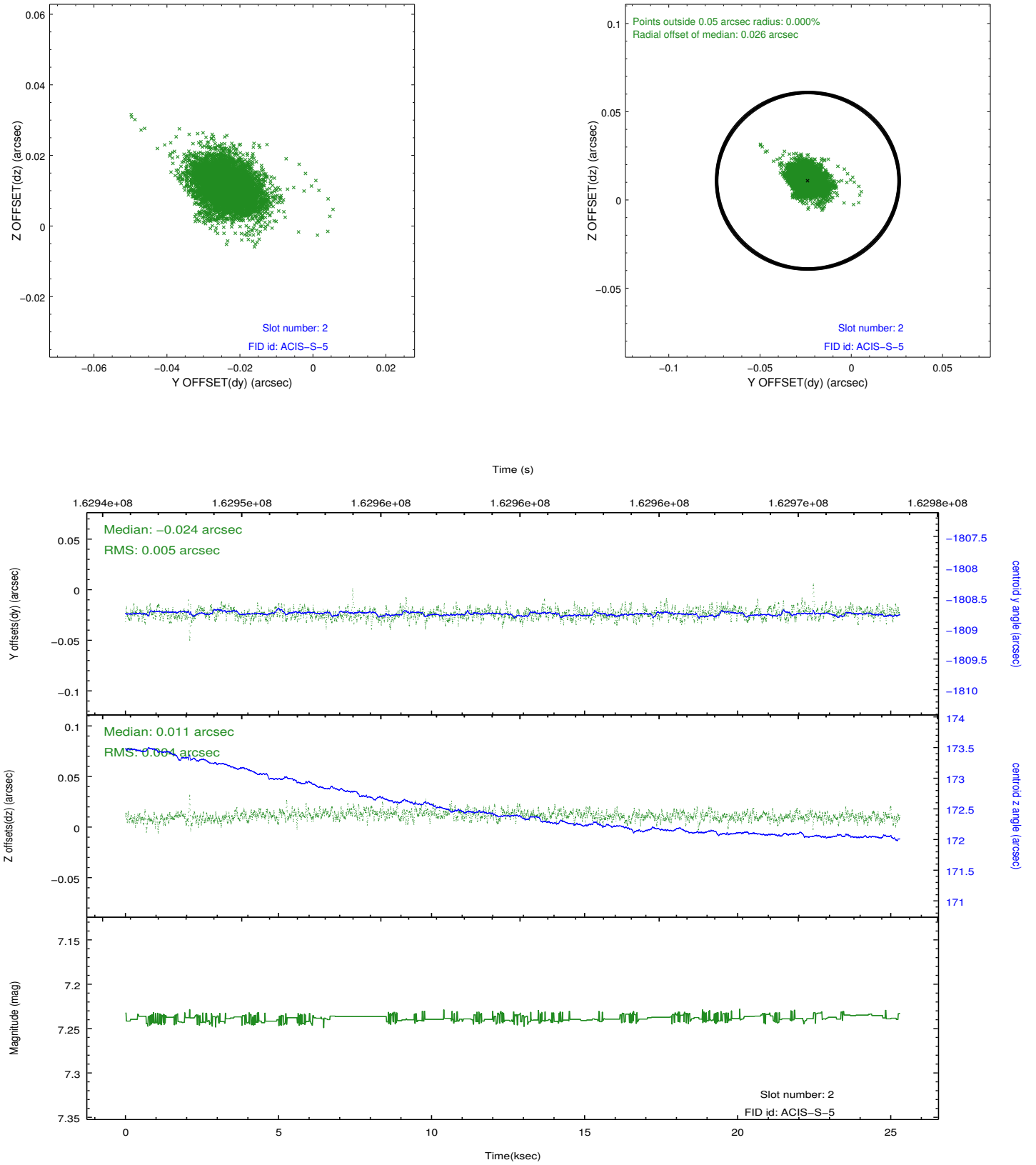
### 2.5.1 Slot 0



## 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)	2012.11.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.96

### A.2 Comments