

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3359 - L2 Version 3  
Chandra X-Ray Center

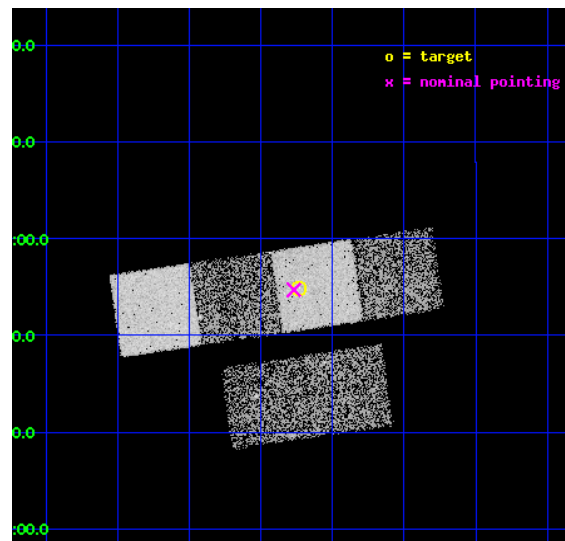
L2 Processing Date : Oct 1 2012

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# 1 Front

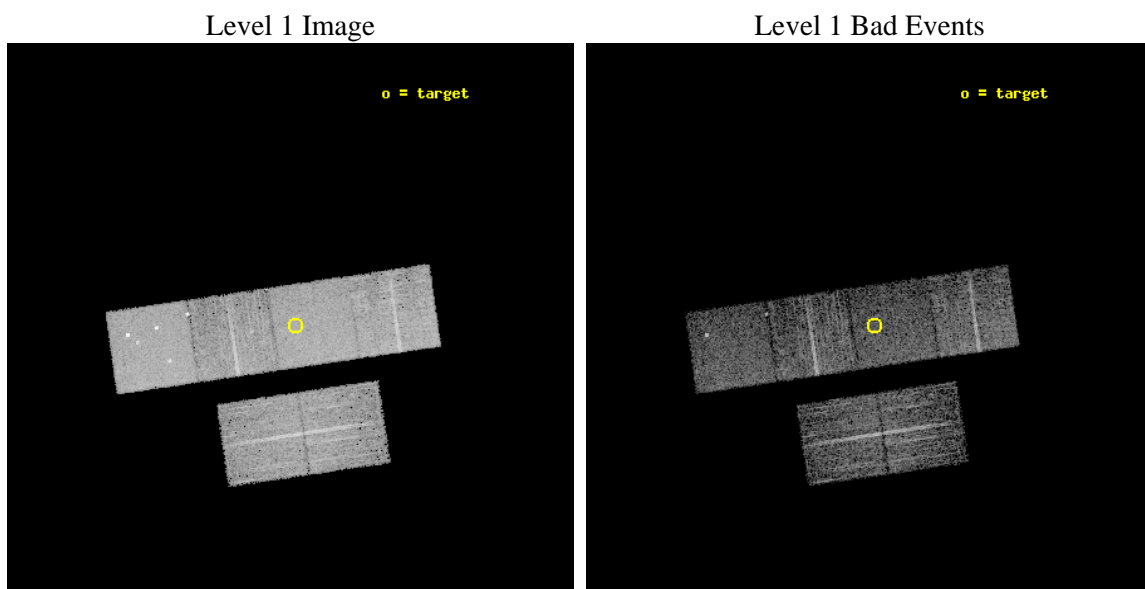
seq_num	700607	Sequence number
obs_id	3359	Observation id
title	CHANDRA OBSERVATIONS OF THE THREE HIGHEST REDSHIFT QUASARS FROM THE SDSS	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSSP J083643+005453	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	129.182917	Observer's specified target RA [deg]
dec_targ	0.914806	Observer's specified target Dec [deg]
ra_nom	129.19219013062	Nominal RA [deg]
dec_nom	0.91170837974544	Nominal Dec [deg]
roll_nom	351.58273321731	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5756.8000053465	Sum of GTIs [s]
livetime	5683.90393735	Livetime [s]
ontime2	5756.8000053465	Sum of GTIs [s]
ontime3	5756.8000053465	Sum of GTIs [s]
ontime5	5756.8000053465	Sum of GTIs [s]
ontime6	5756.8000053465	Sum of GTIs [s]
ontime7	5756.8000053465	Sum of GTIs [s]
ontime8	5753.5590550154	Sum of GTIs [s]
l2events	55566	Number of level 2 events



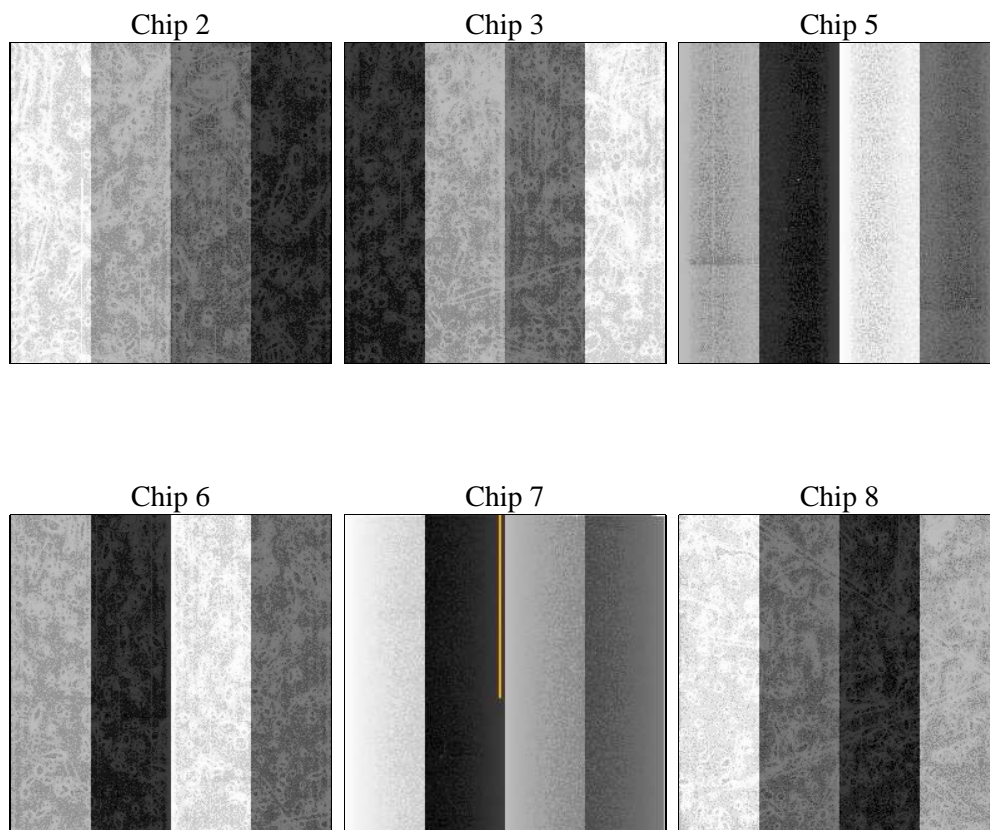
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5756.8000053465	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	5756.8000053465	Sum of GTIs [s]
date	2012-10-01T05:52:51	Date and time of file creation	ontime3	5756.8000053465	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5756.8000053465	Sum of GTIs [s]
			ontime6	5756.8000053465	Sum of GTIs [s]
			ontime7	5756.8000053465	Sum of GTIs [s]
			ontime8	5753.5590550154	Sum of GTIs [s]
			l1events	257303	Number of level 1 events

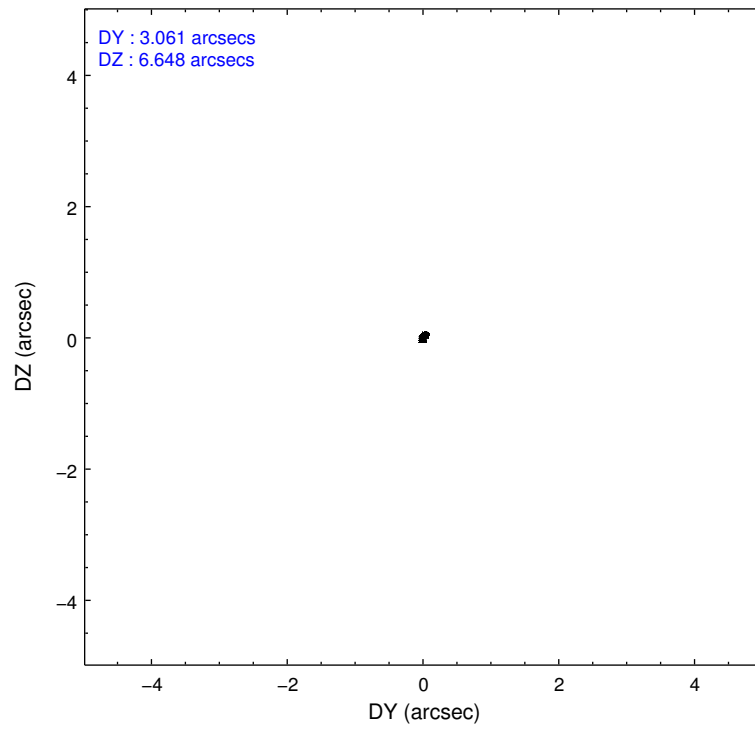
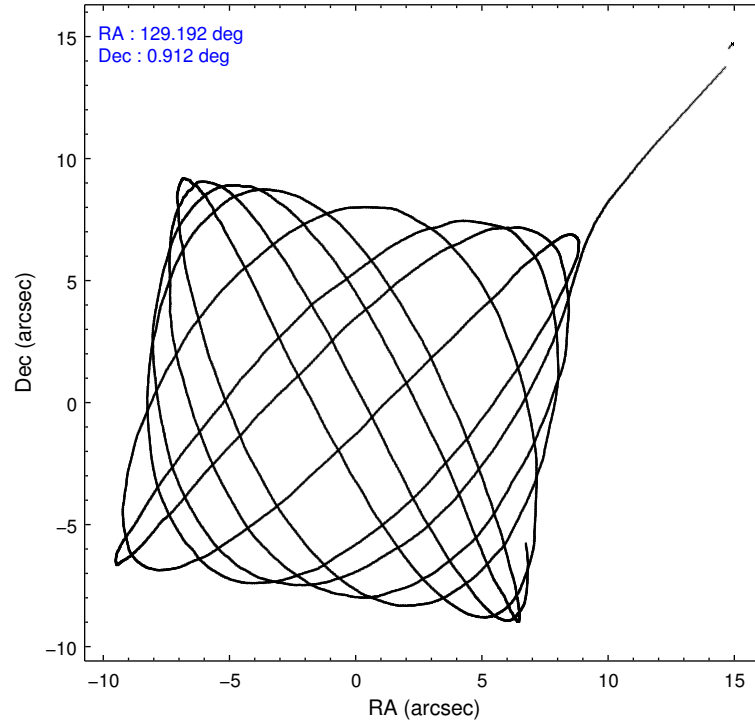
### 2.1.4 Events

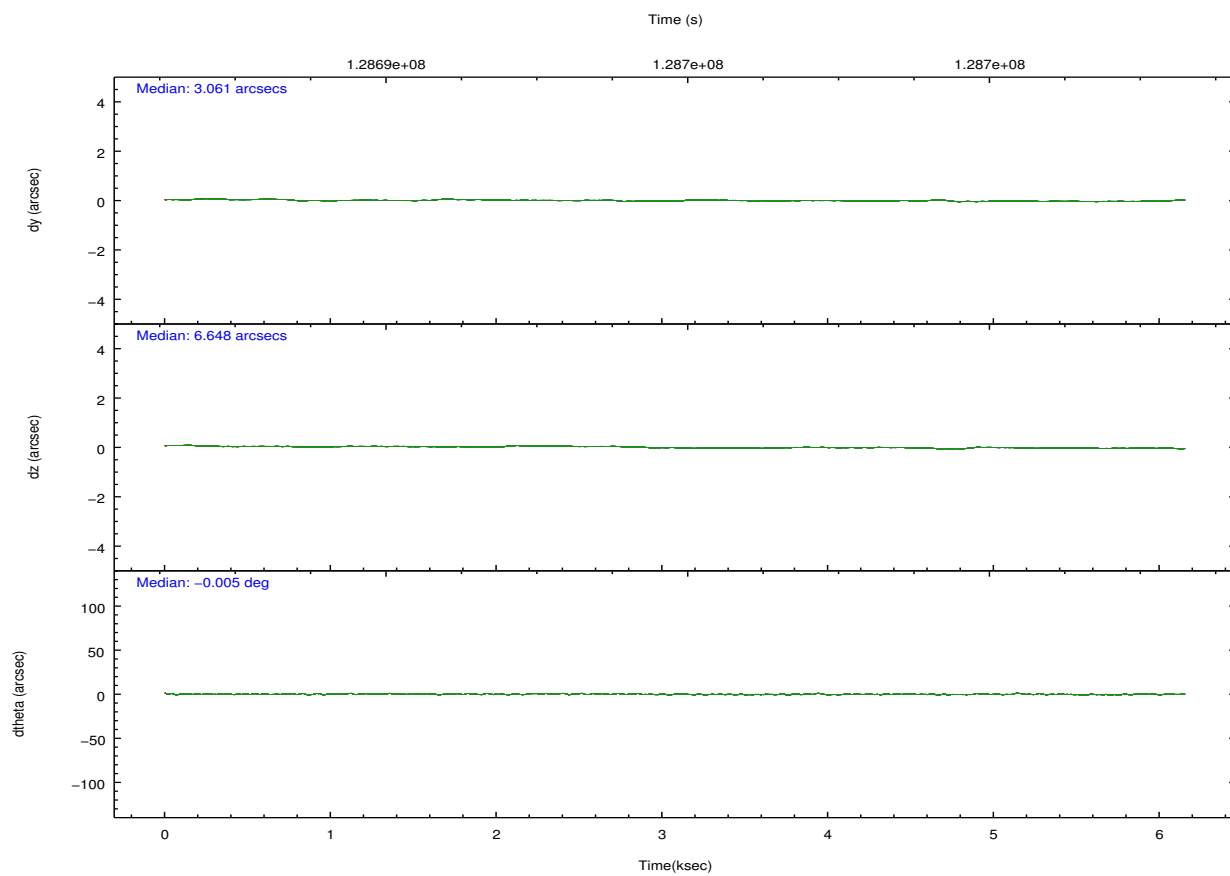
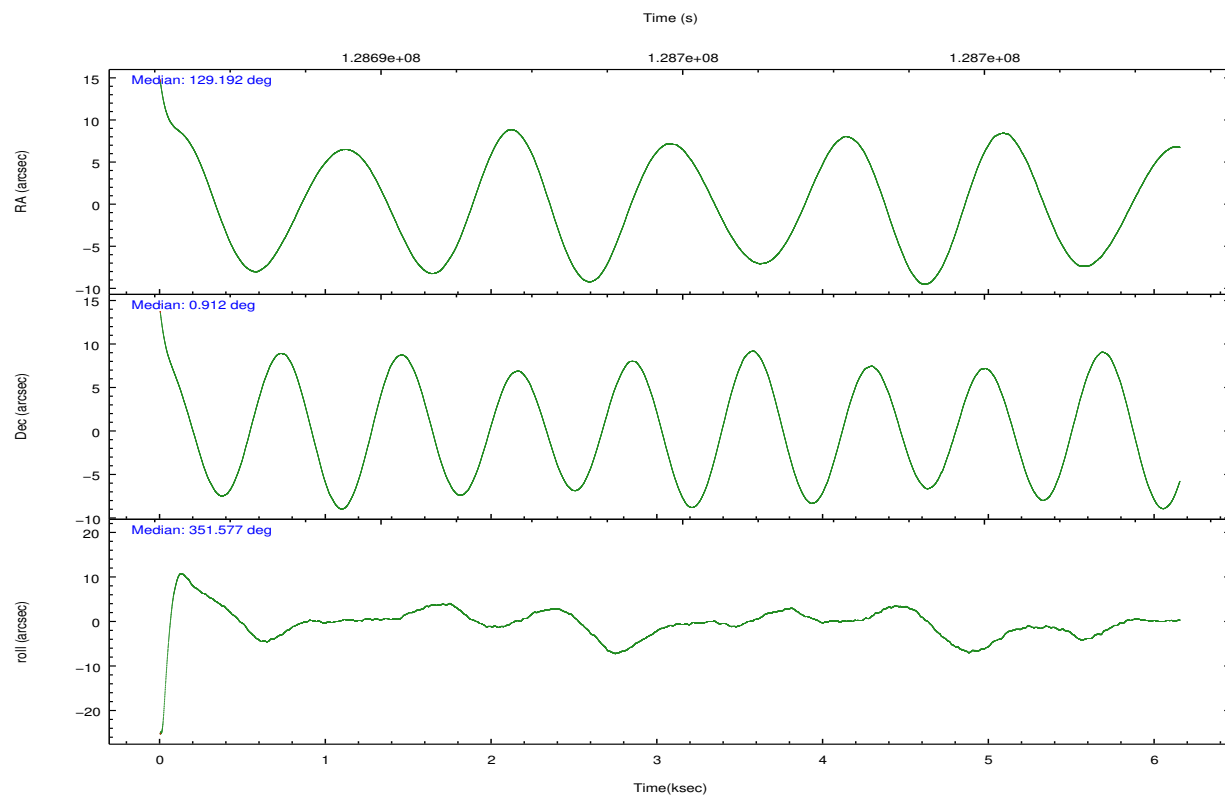
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	36311	35944	53444	36887	46421	48296	grade 0 events	1714	1776	3721	1886	1796	3076
rejected events	32163	31768	28176	32468	26933	38409		4%	4%	6%	5%	3%	6%
rejected %	88%	88%	52%	88%	58%	79%	grade 1 events	18	9	161	18	49	46
								0%	0%	0%	0%	0%	0%
							grade 2 events	922	878	7302	862	3839	2152
								2%	2%	13%	2%	8%	4%
							grade 3 events	398	398	1006	436	1793	1180
								1%	1%	1%	1%	3%	2%
							grade 4 events	375	382	1007	392	1790	1054
								1%	1%	1%	1%	3%	2%
							grade 5 events	1236	1363	3966	1526	4476	1884
								3%	3%	7%	4%	9%	3%
							grade 6 events	742	743	12253	846	10281	2425
								2%	2%	22%	2%	22%	5%
							grade 7 events	30906	30395	24028	30921	22397	36479
								85%	84%	44%	83%	48%	75%

## 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	129.166897	129.1921901306246	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.901376	0.9117083797454388	Alternating exposures requested	N	N
[deg] Pointing Roll	351.426581	351.5827332173097	[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)	128692996.184000	128691900.33588			
Observation start date	2002-01-29T12:02:12	2002-01-29T11:45:00			
[s] Observation end time (MET)	128698996.184000	128700197.19871			
Observation end date	2002-01-29T13:42:12	2002-01-29T14:03:17			
Read mode	TIMED	TIMED			

## 2.3 Aspect



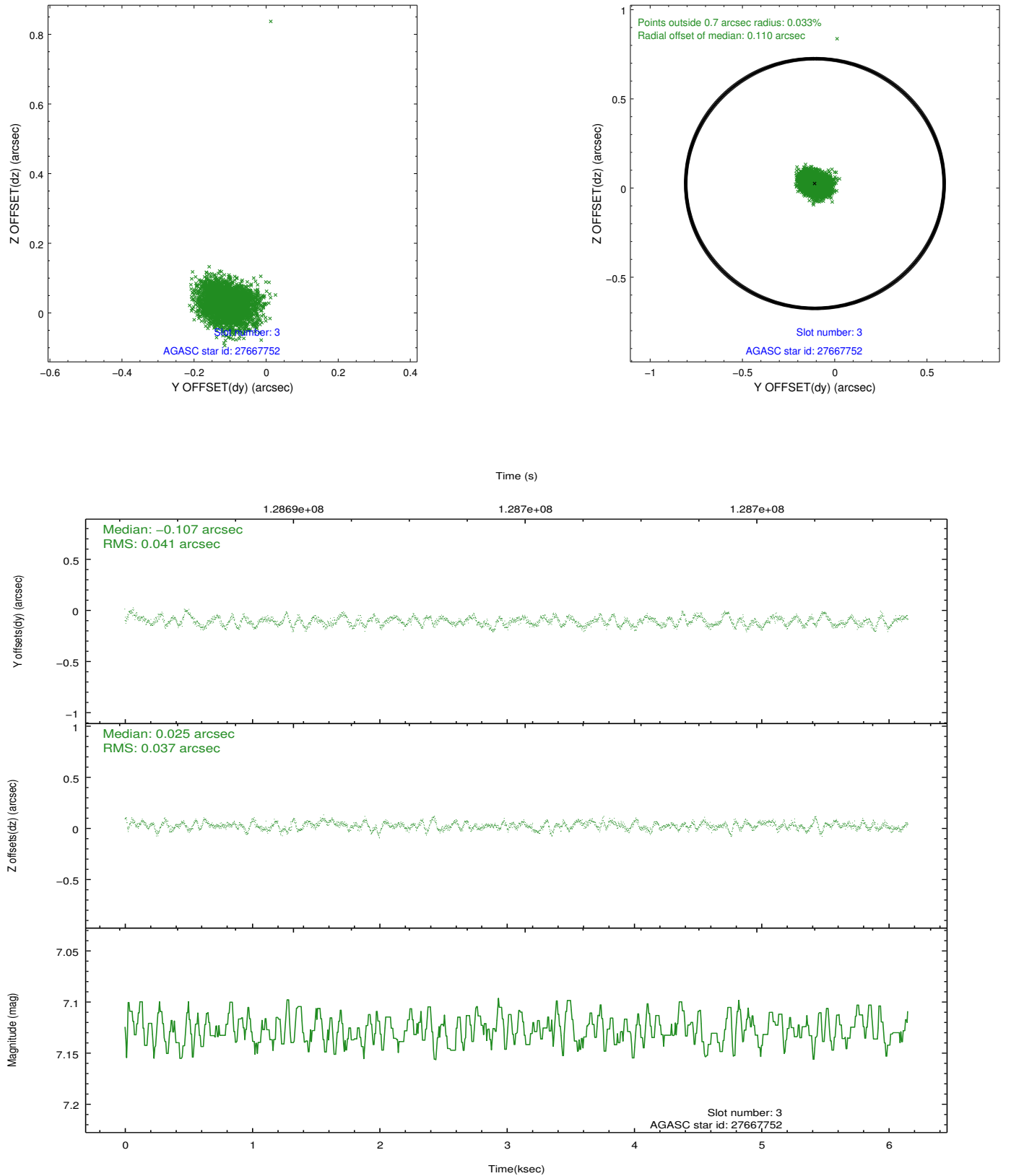


### Slot Statistics

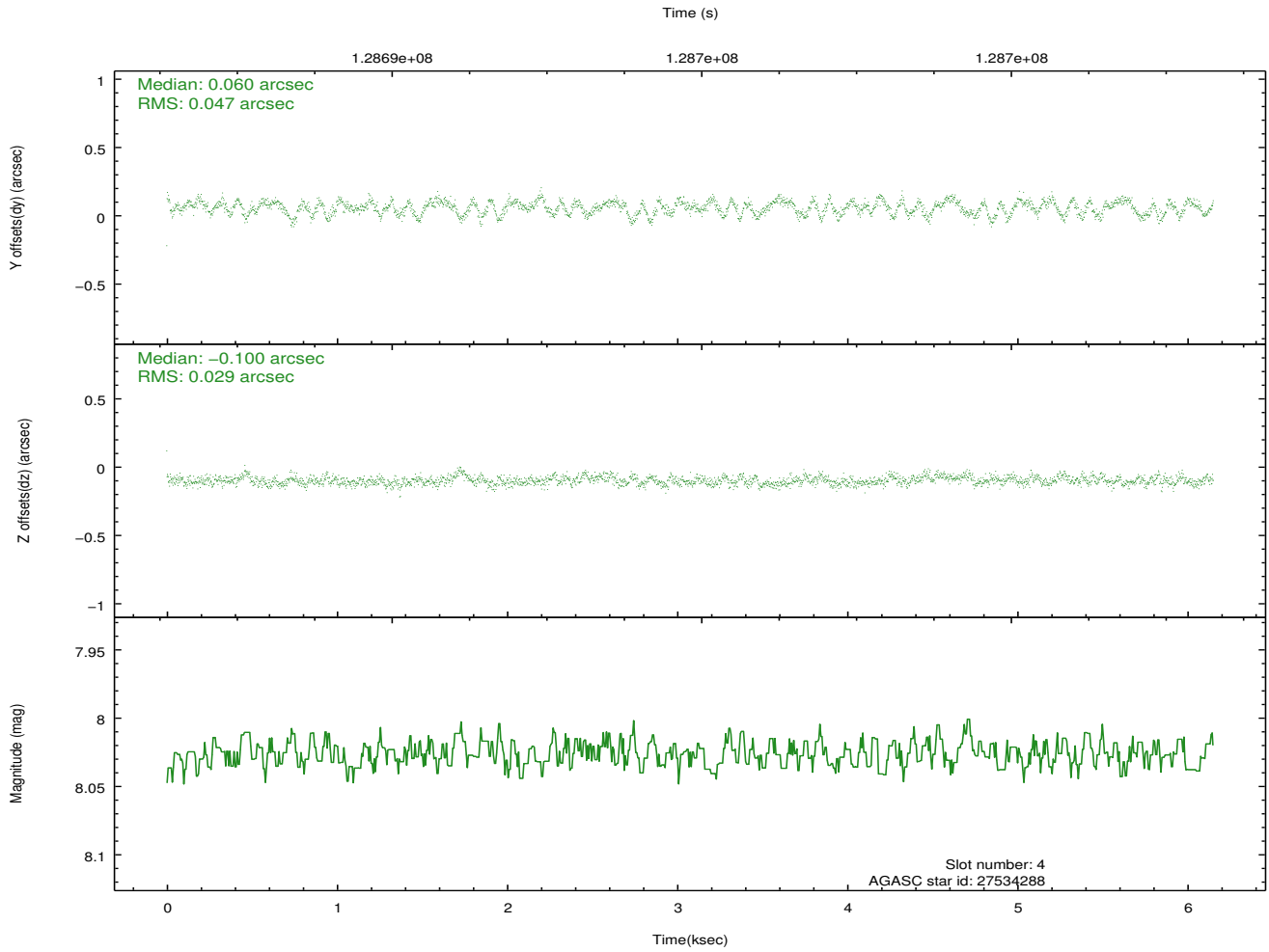
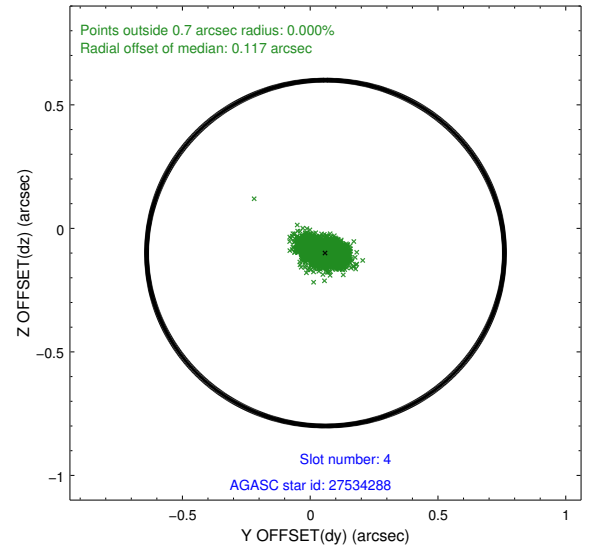
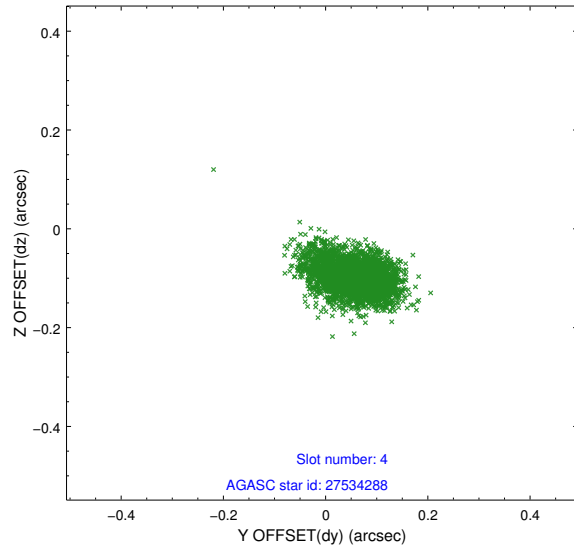
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1501	-0.023	0.009	0.007	0.011	0.000000	0.000000	-755.71	-1727.81
1	FID	ACIS-S-4	7.20	1501	-0.022	0.009	0.006	0.010	0.000000	0.000000	2157.11	179.71
2	FID	ACIS-S-5	7.24	1501	0.013	-0.009	0.006	0.011	0.000000	0.000000	-1807.30	174.42
3	GUIDE	27667752	7.13	3002	-0.107	0.025	0.056	0.090	129.585105	0.691048	1601.82	-523.39
4	GUIDE	27534288	8.03	3002	0.060	-0.100	0.059	0.097	128.688003	1.487093	-2017.92	1828.46
5	GUIDE	27531712	8.71	3001	0.083	0.051	0.062	0.099	128.579597	0.839415	-2057.35	-534.49
6	GUIDE	27661672	8.70	3002	-0.035	-0.010	0.056	0.094	129.855960	1.161459	2312.32	1296.51
7	GUIDE	27538560	9.25	2999	0.003	0.035	0.097	0.154	128.695702	0.277665	-1341.30	-2472.15

## 2.4 Star Slots

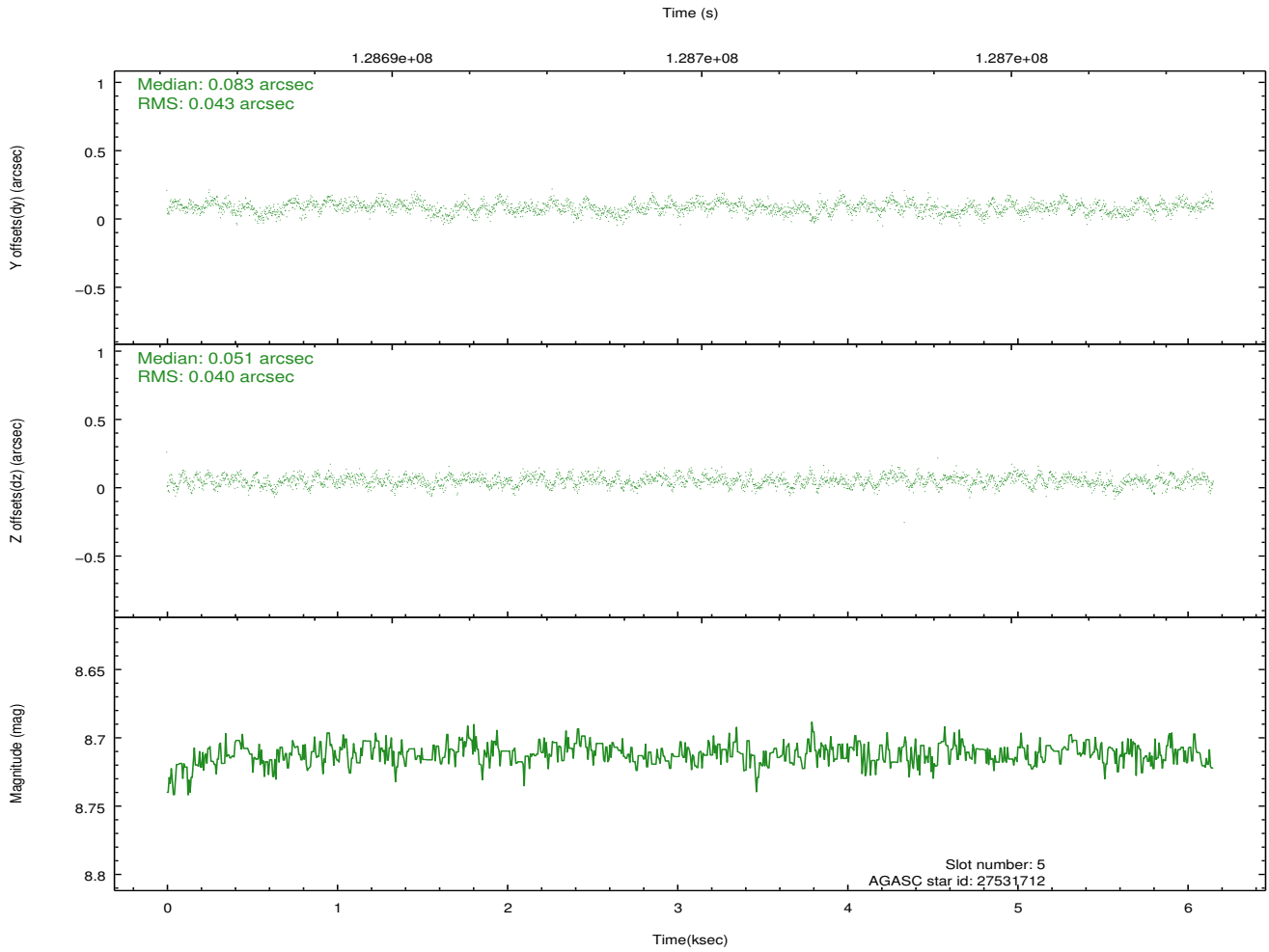
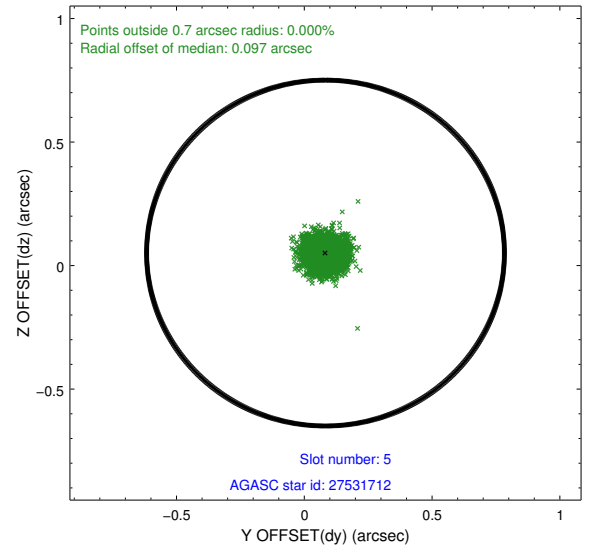
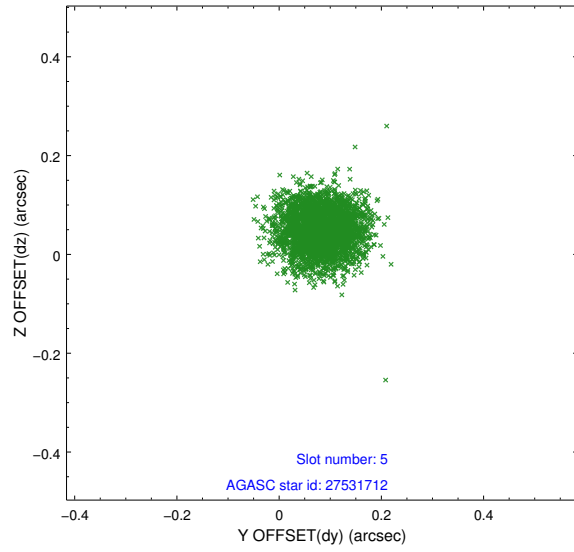
### 2.4.1 Slot 3



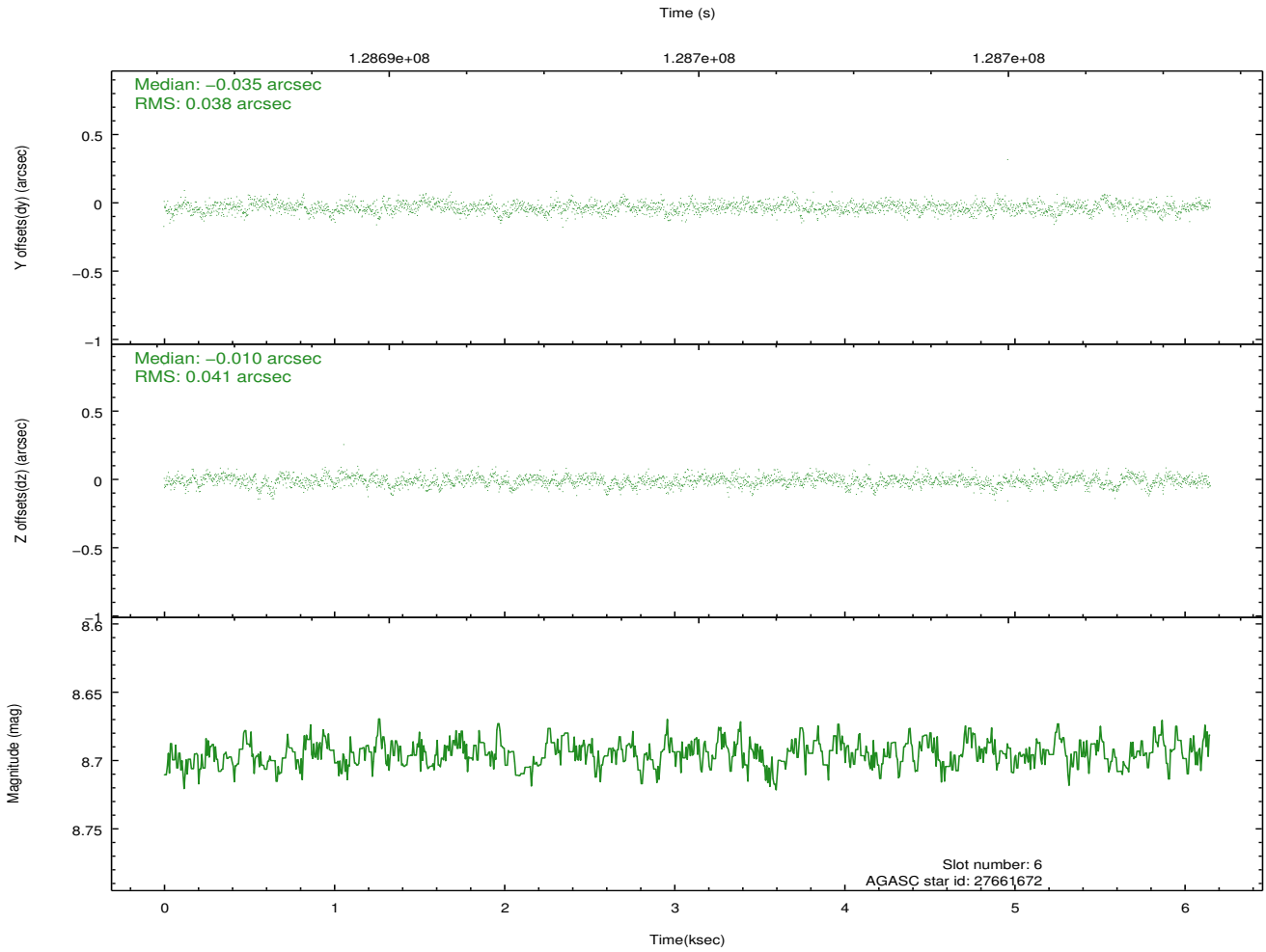
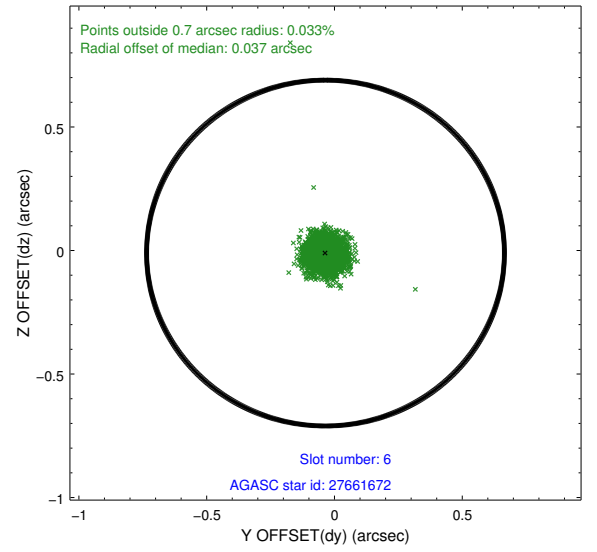
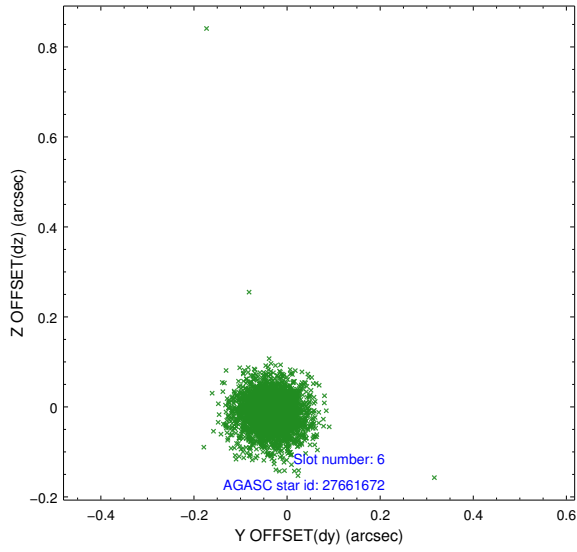
## 2.4.2 Slot 4



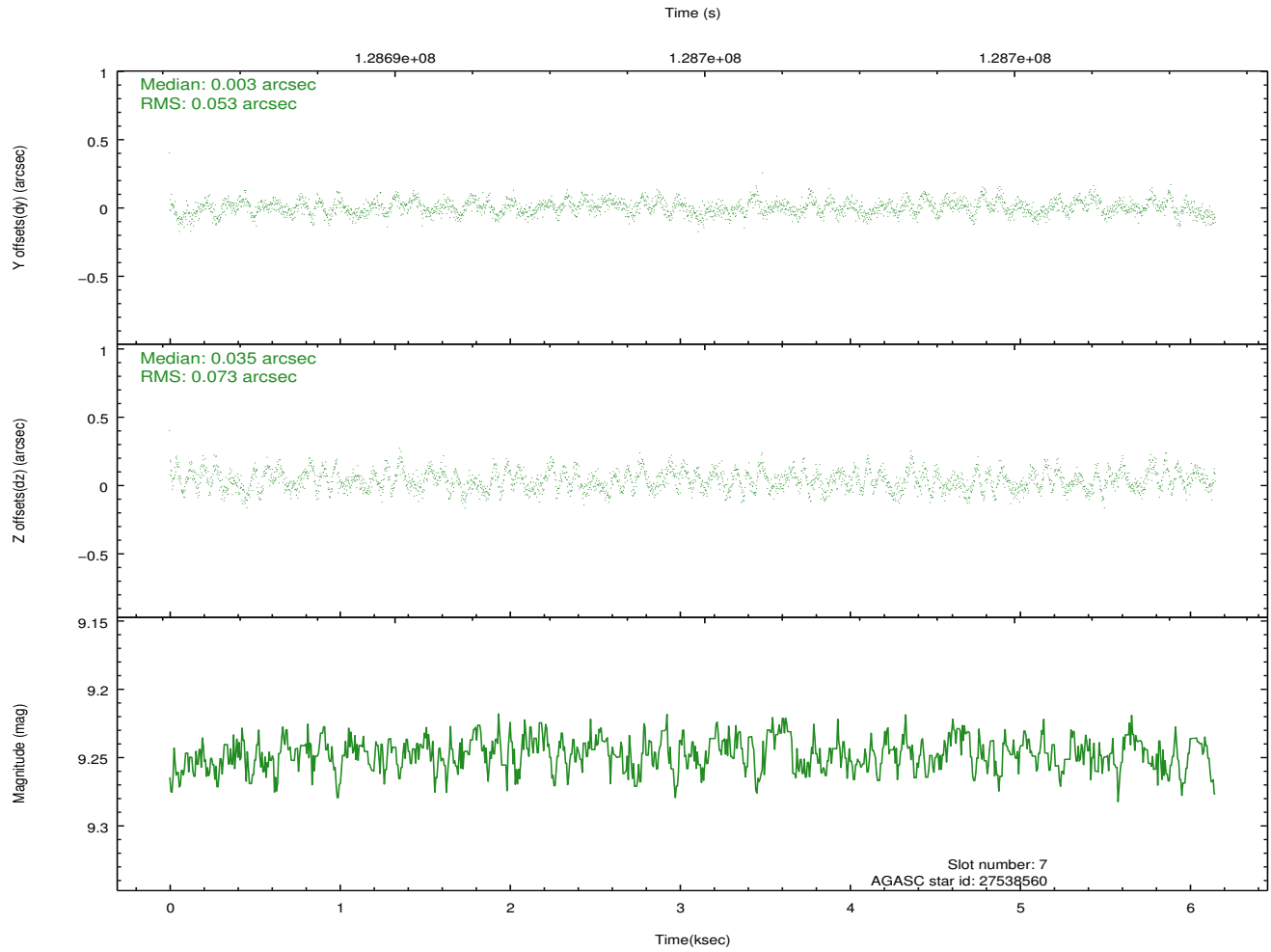
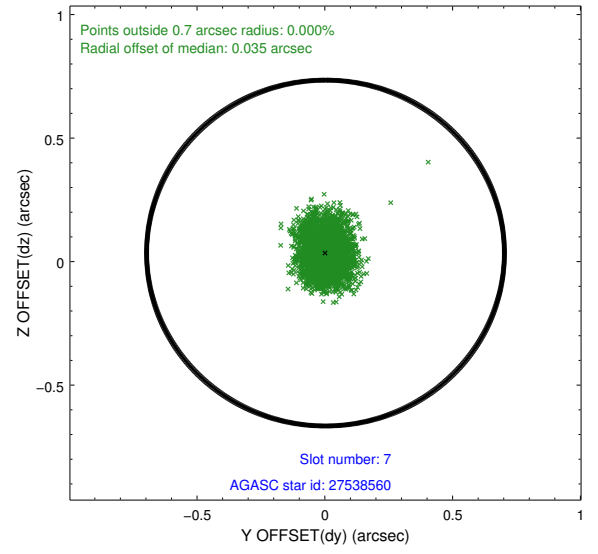
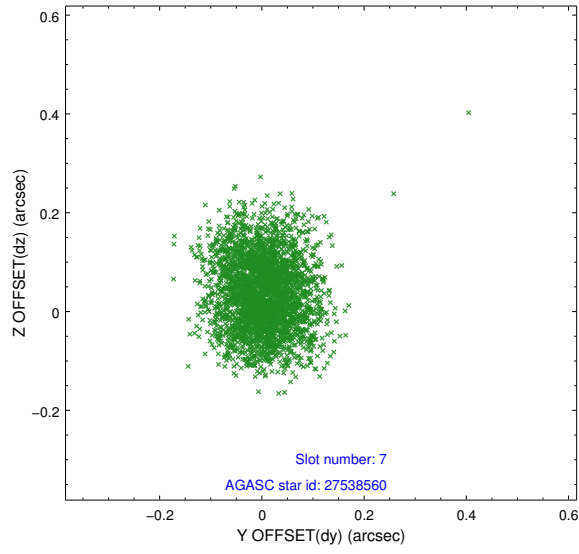
### 2.4.3 Slot 5



## 2.4.4 Slot 6

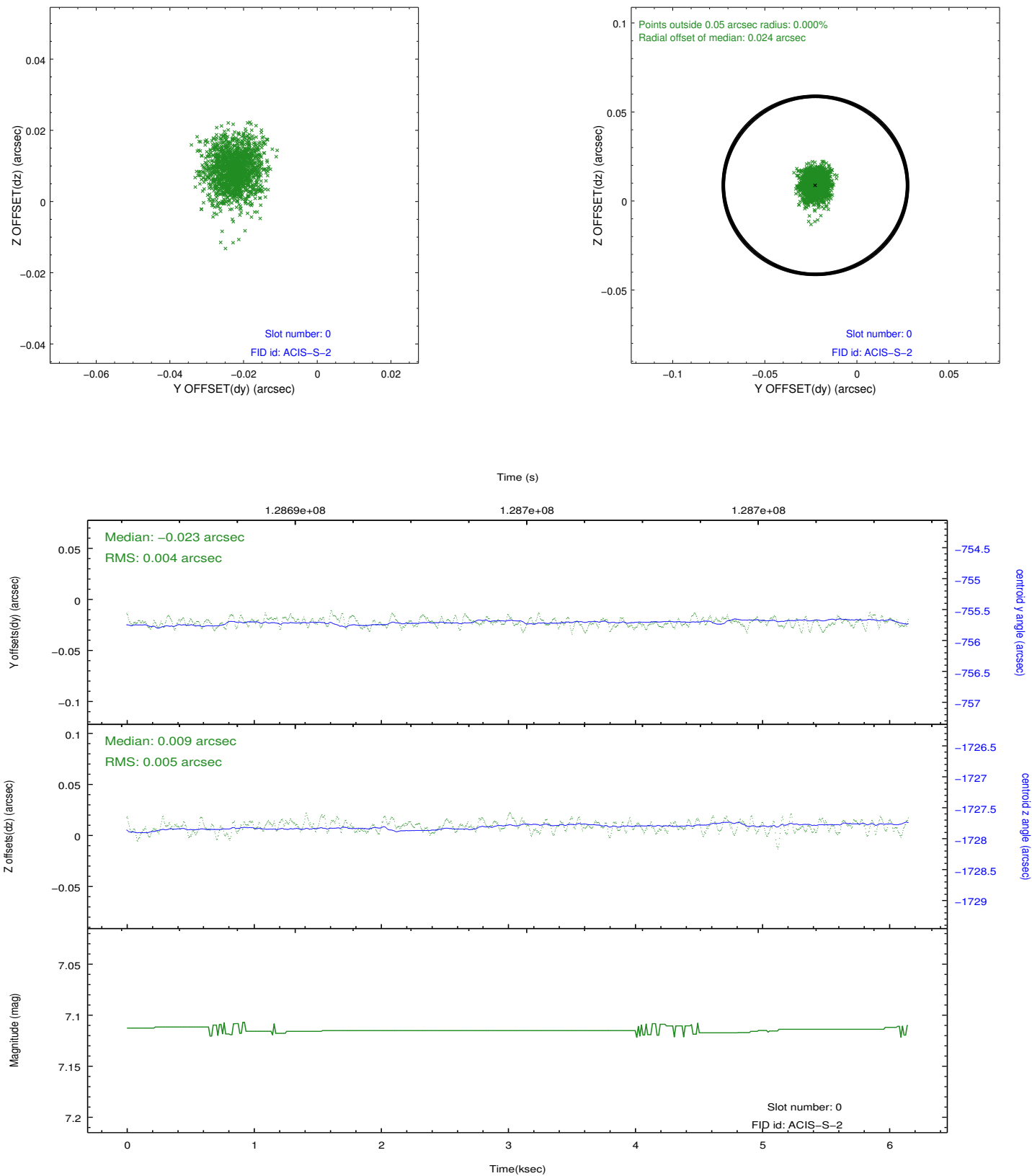


## 2.4.5 Slot 7

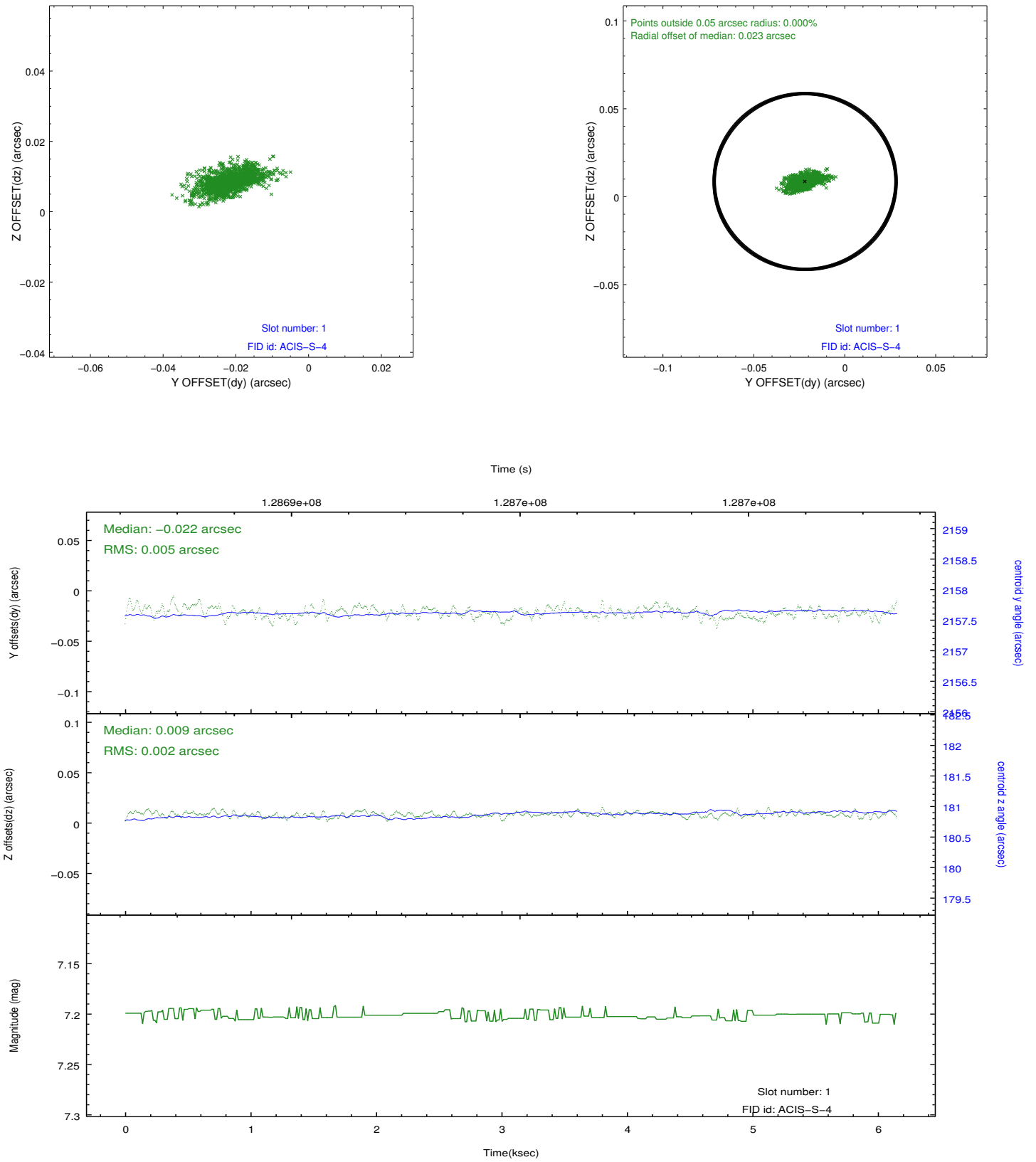


## 2.5 FID Slots

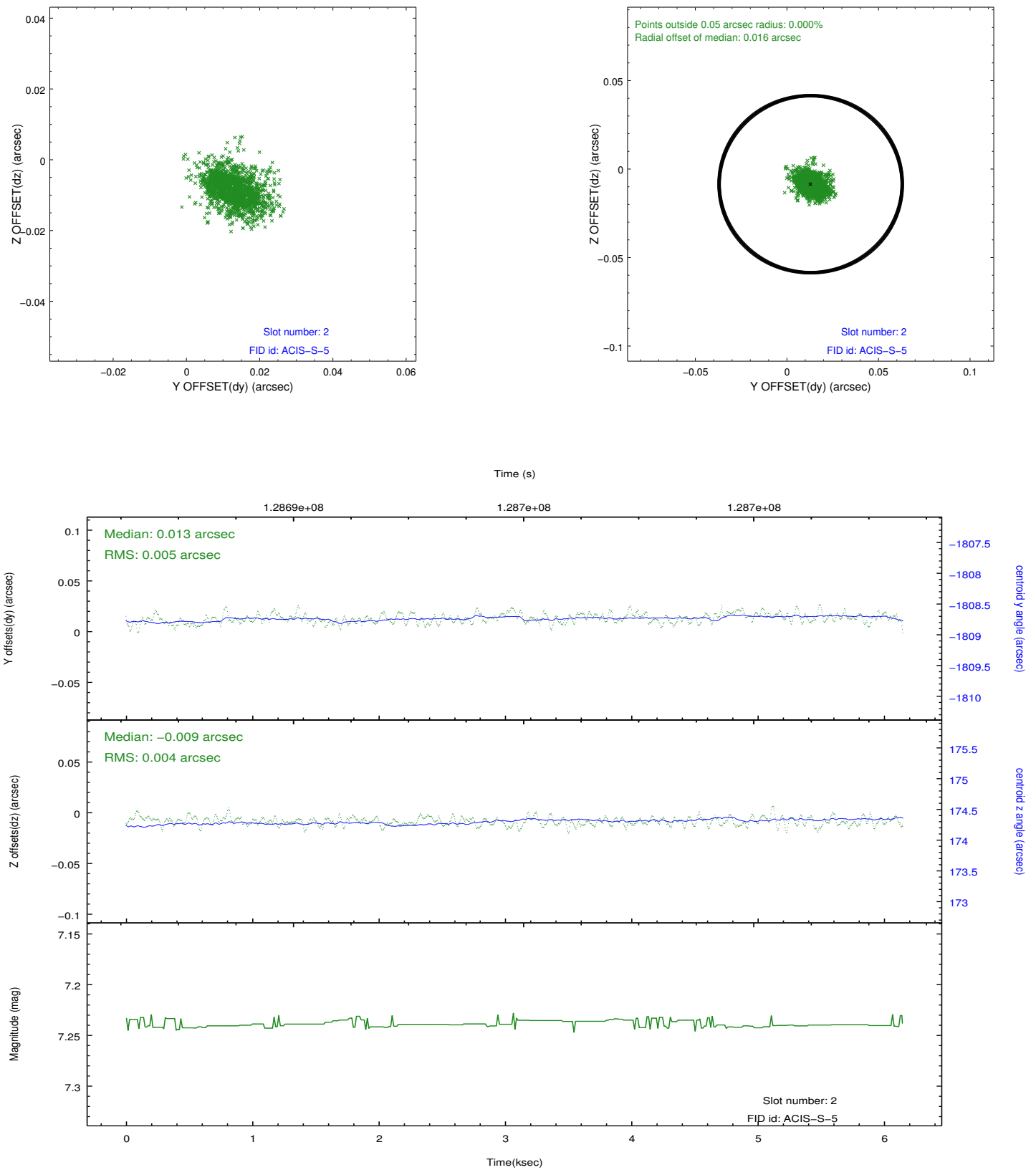
### 2.5.1 Slot 0



## 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)	2012.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.76

### A.2 Comments