

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 6315 - L2 Version 3  
Chandra X-Ray Center

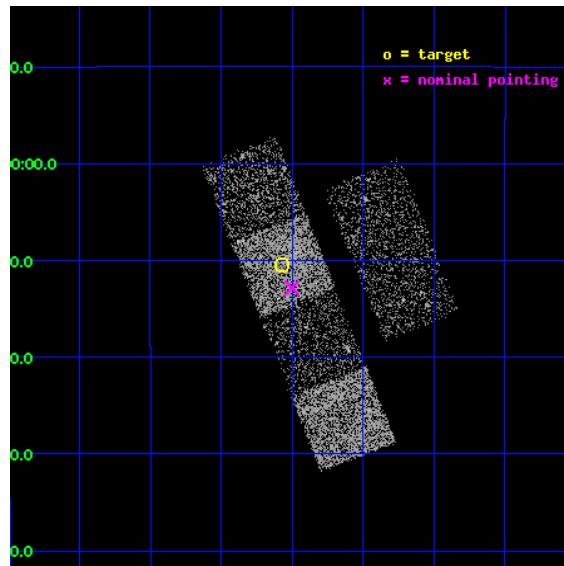
L2 Processing Date : Dec 25 2012

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# 1 Front

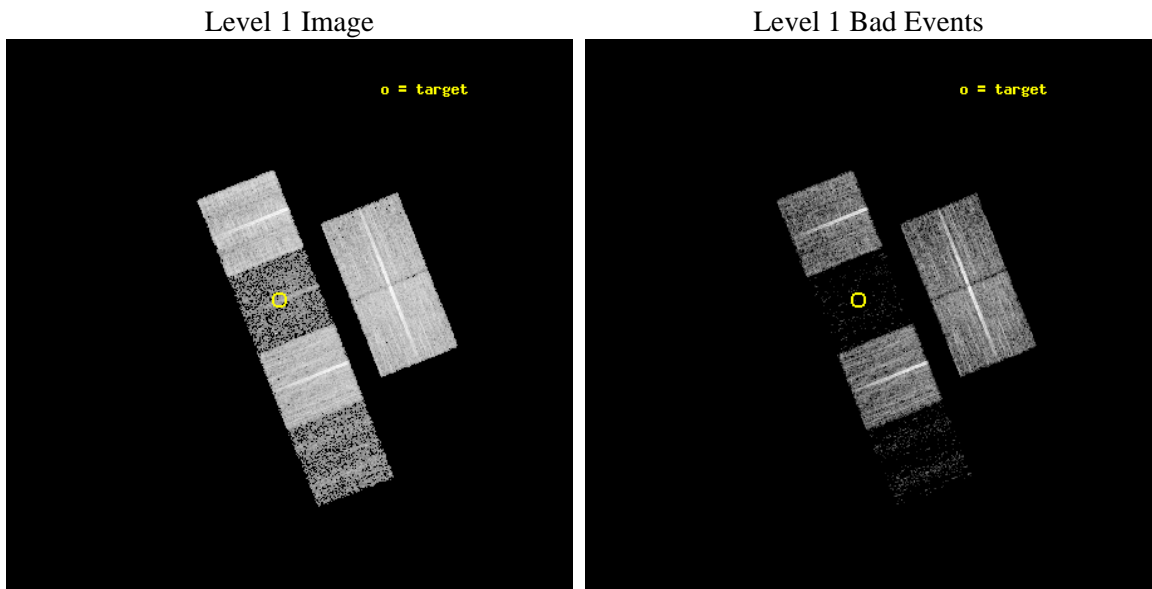
seq_num	100054	Sequence number
obs_id	6315	Observation id
title	Comet 9P/Tempel 1 During the Deep Impact Encounter	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	9P/Tempel 1	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.892948	Observer's specified target RA [deg]
dec_targ	-8.174801	Observer's specified target Dec [deg]
ra_nom	202.87534971916	Nominal RA [deg]
dec_nom	-8.213996985039	Nominal Dec [deg]
roll_nom	248.32619967126	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10182.399962068	Sum of GTIs [s]
livetime	10053.464282643	Livetime [s]
ontime2	10182.399962068	Sum of GTIs [s]
ontime3	10182.399962068	Sum of GTIs [s]
ontime5	10182.399962068	Sum of GTIs [s]
ontime6	10182.399962068	Sum of GTIs [s]
ontime7	10182.399962068	Sum of GTIs [s]
ontime8	10182.399962068	Sum of GTIs [s]
l2events	14969	Number of level 2 events



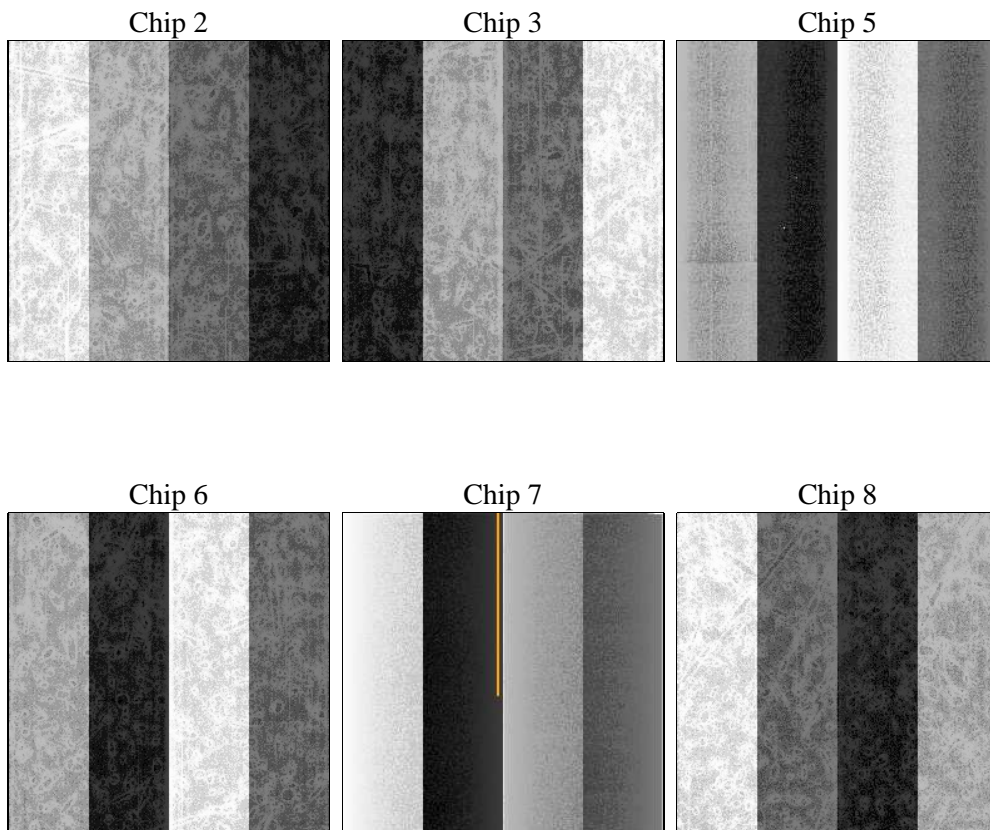
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	10182.399962068	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime2	10182.399962068	Sum of GTIs [s]
date	2012-12-25T20:52:49	Date and time of file creation	ontime3	10182.399962068	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	10182.399962068	Sum of GTIs [s]
			ontime6	10182.399962068	Sum of GTIs [s]
			ontime7	10182.399962068	Sum of GTIs [s]
			ontime8	10182.399962068	Sum of GTIs [s]
			l1events	211280	Number of level 1 events

### 2.1.4 Events

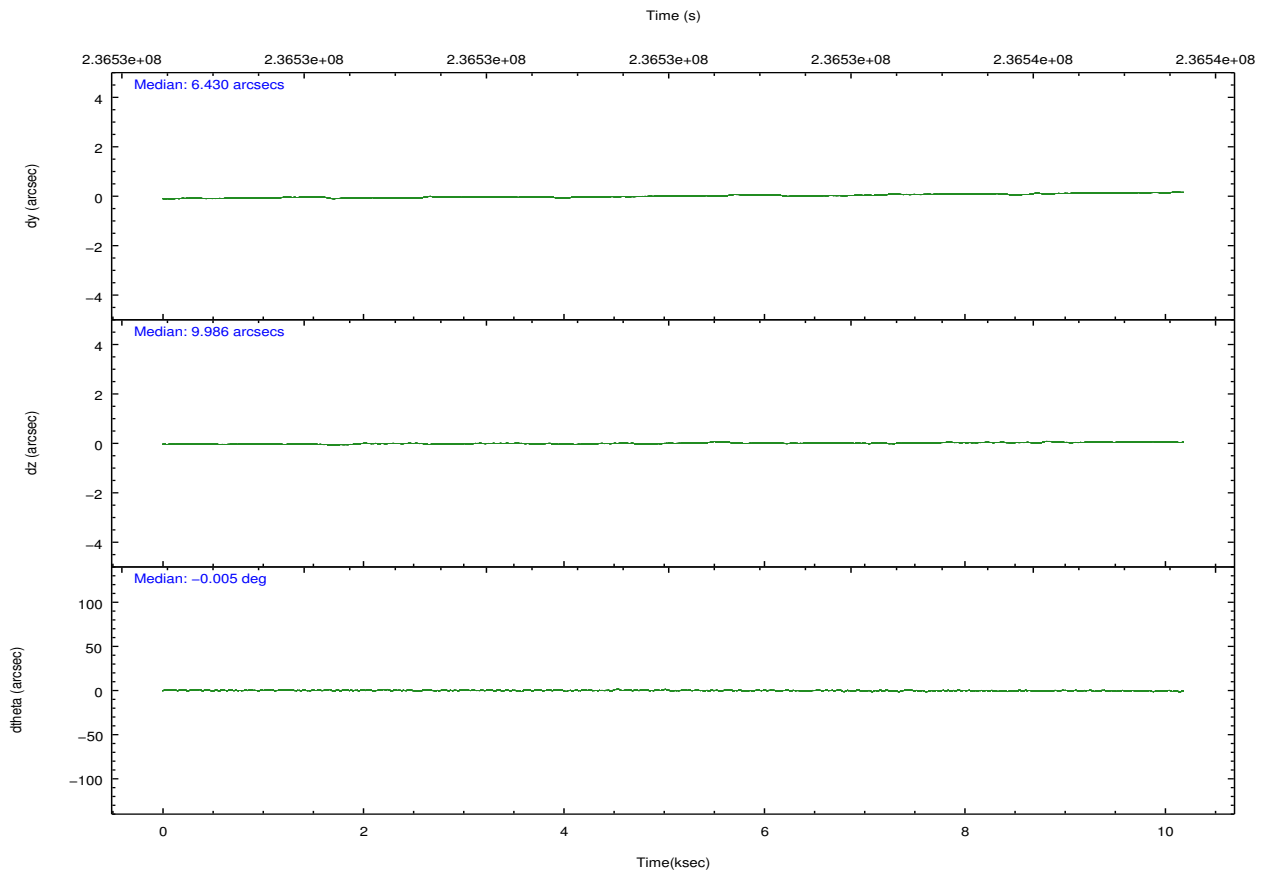
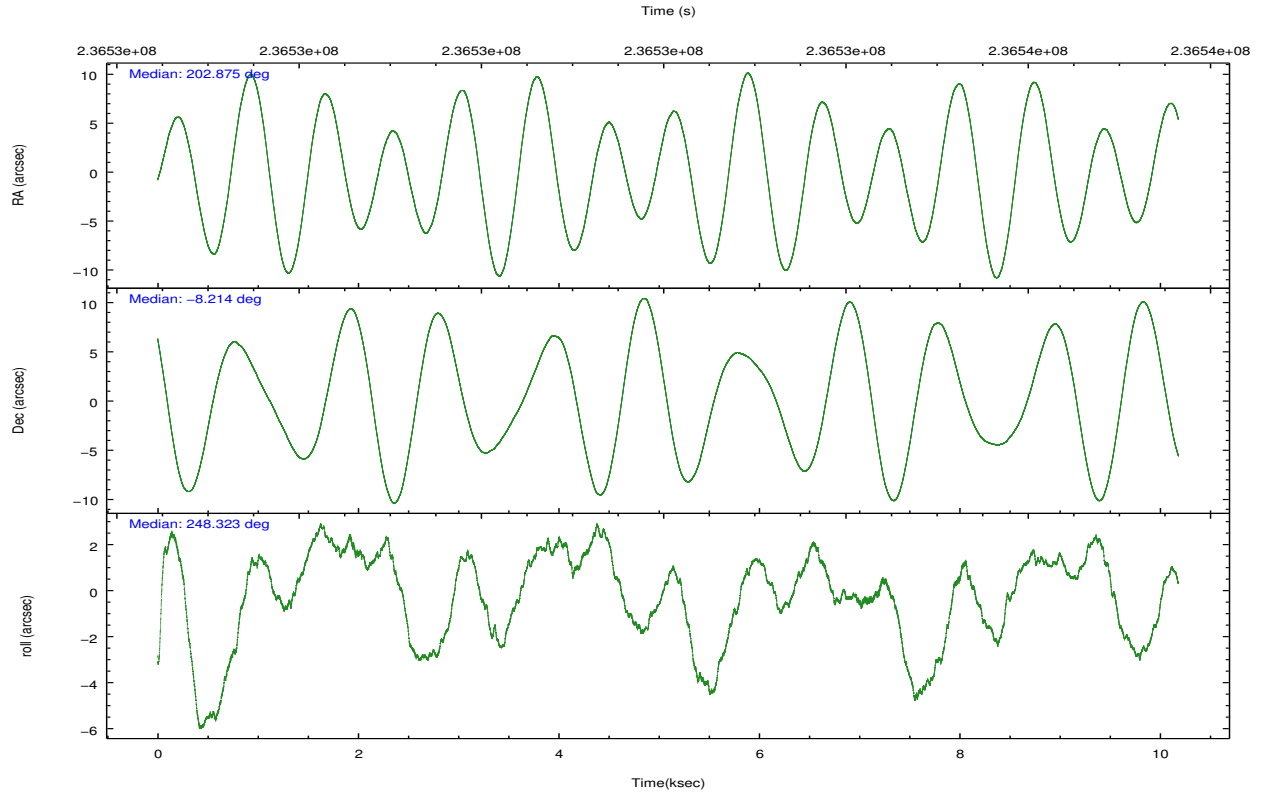
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	53507	44828	8033	44475	7141	53296
rejected events	51490	43277	2962	42579	1502	40139
rejected %	96%	96%	36%	95%	21%	75%

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	798	749	1366	982	1844	3720
	1%	1%	17%	2%	25%	6%
grade 1 events	21	12	61	16	36	27
	0%	0%	0%	0%	0%	0%
grade 2 events	421	196	1913	340	1823	2958
	0%	0%	23%	0%	25%	5%
grade 3 events	292	270	689	247	837	1683
	0%	0%	8%	0%	11%	3%
grade 4 events	333	236	641	265	720	1533
	0%	0%	7%	0%	10%	2%
grade 5 events	60	38	468	39	200	268
	0%	0%	5%	0%	2%	0%
grade 6 events	219	149	652	127	628	3609
	0%	0%	8%	0%	8%	6%
grade 7 events	51363	43178	2243	42459	1053	39498
	95%	96%	27%	95%	14%	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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	202.870956	202.87534971916	Subarray requested	NONE	NONE
[deg] Pointing Dec	-8.187095	-8.213996985038968	Alternating exposures requested	N	N
[deg] Pointing Roll	248.168943	248.3261996712557	[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)	236527140.184000	236526764.50779			
Observation start date	2005-06-30T13:57:56	2005-06-30T13:52:44			
[s] Observation end time (MET)	236537140.184000	236537274.34577			
Observation end date	2005-06-30T16:44:36	2005-06-30T16:47:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



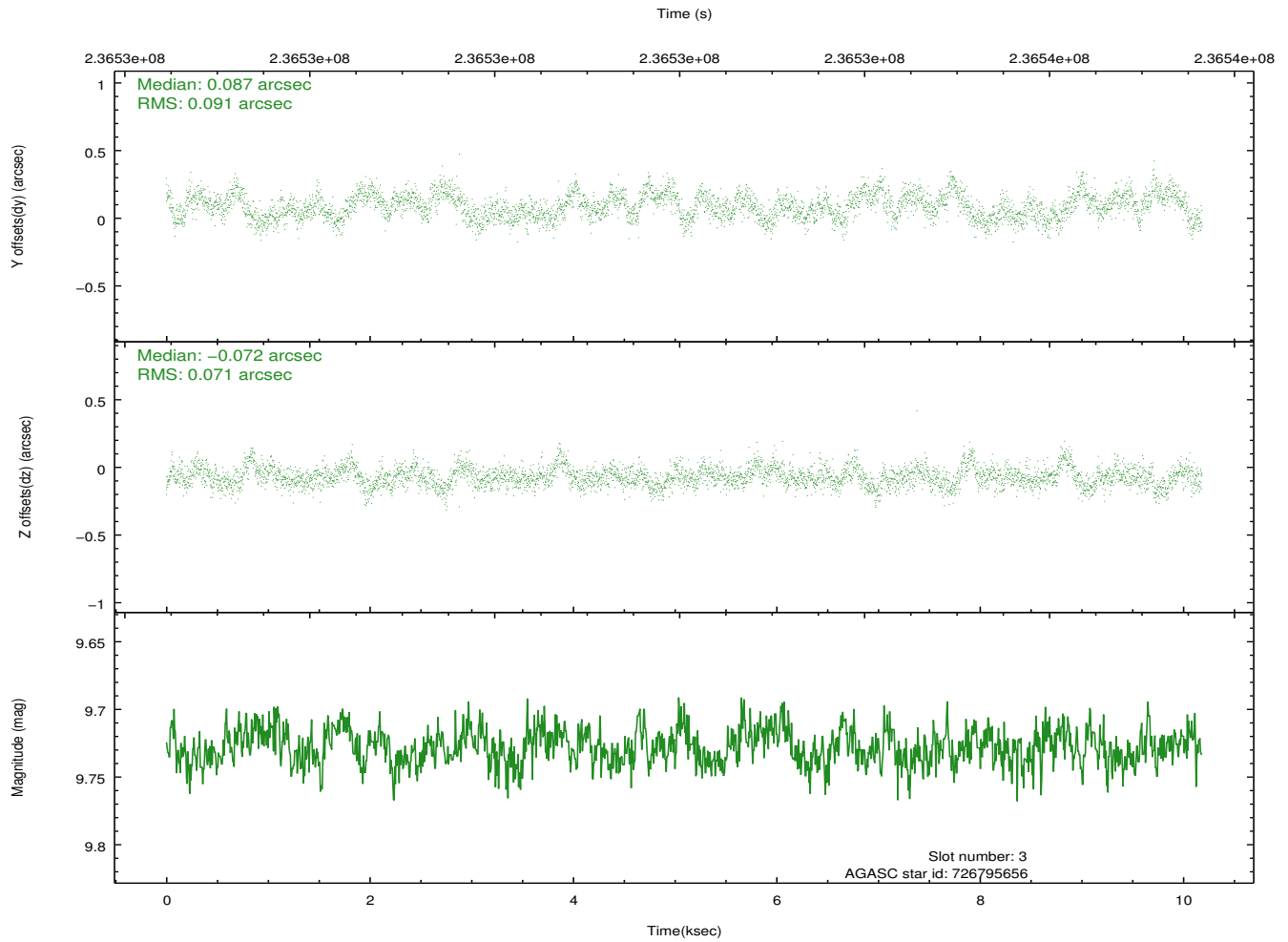
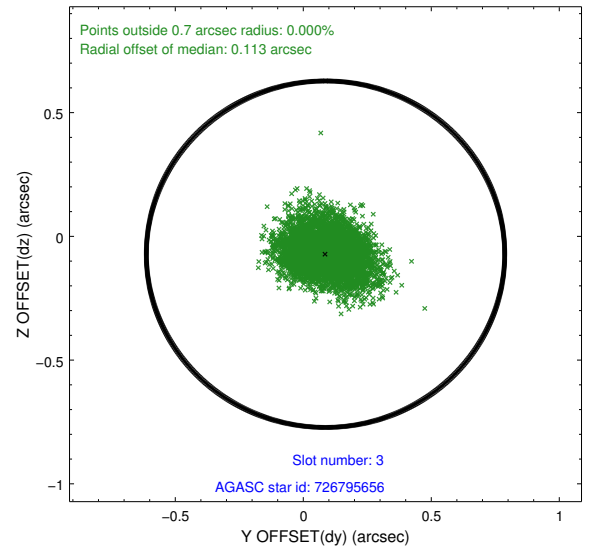
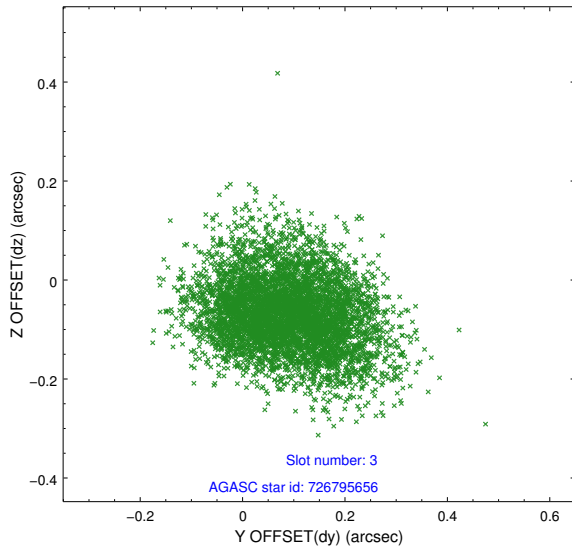
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	2484	0.023	-0.032	0.007	0.013	0.000000	0.000000	936.88	-1726.90
1	FID	ACIS-S-5	7.23	2485	-0.070	0.011	0.006	0.011	0.000000	0.000000	-1811.92	170.18
2	FID	ACIS-S-6	7.35	2484	0.026	0.032	0.008	0.012	0.000000	0.000000	401.88	814.74
3	GUIDE	726795656	9.73	4968	0.087	-0.072	0.123	0.199	202.576235	-8.591995	1744.12	-431.67
4	GUIDE	726797168	9.23	4965	0.038	0.047	0.091	0.152	202.692279	-8.774007	2198.68	195.71
5	GUIDE	726799000	10.11	4961	0.210	-0.133	0.157	0.272	202.090075	-8.567627	2309.20	-2070.09
6	GUIDE	726800704	9.03	4968	-0.320	0.081	0.073	0.120	202.986094	-7.587280	-2156.53	-422.23
7	GUIDE	726800992	9.59	4963	-0.018	0.075	0.095	0.151	202.715522	-8.788144	2214.28	291.44

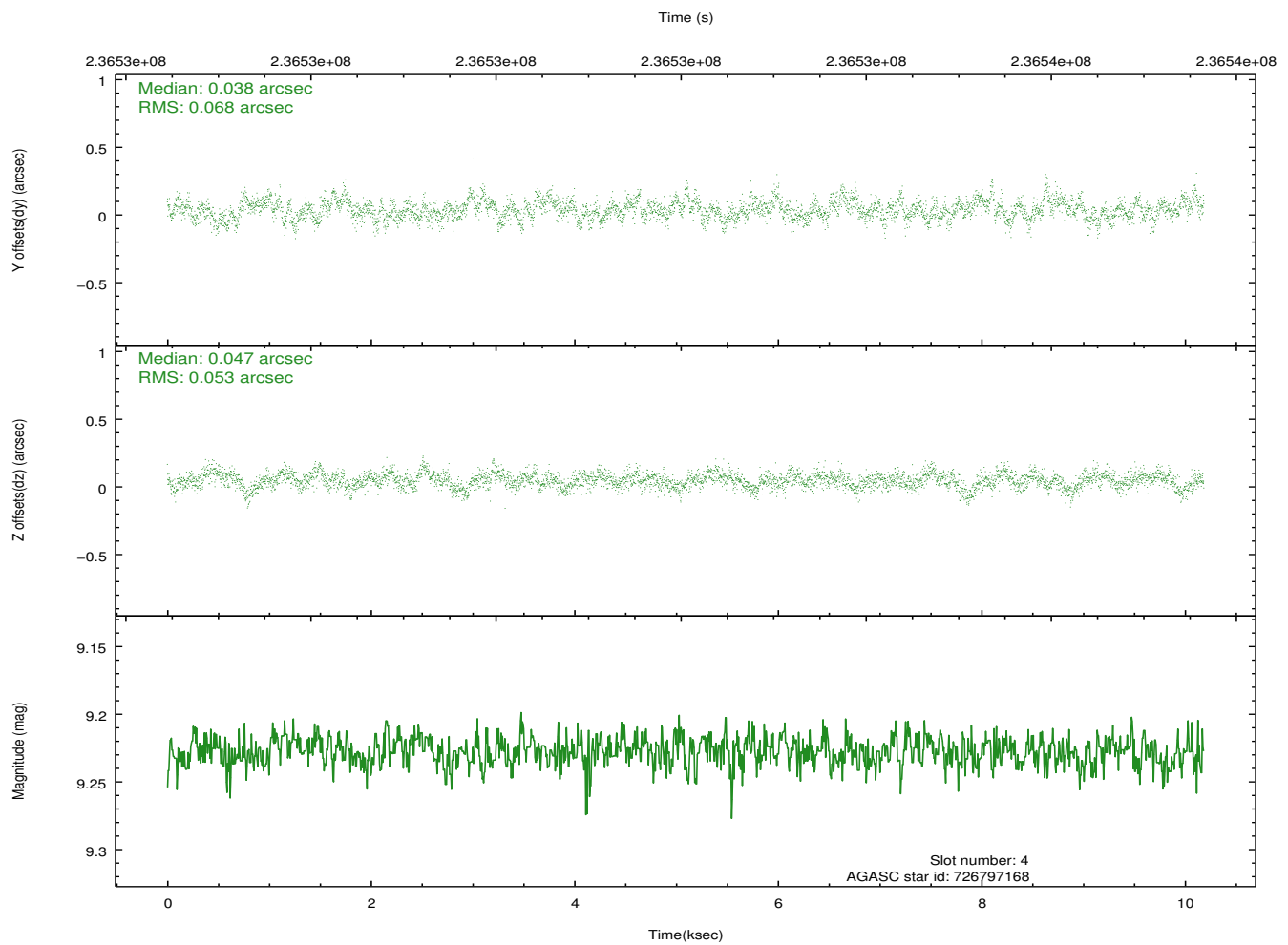
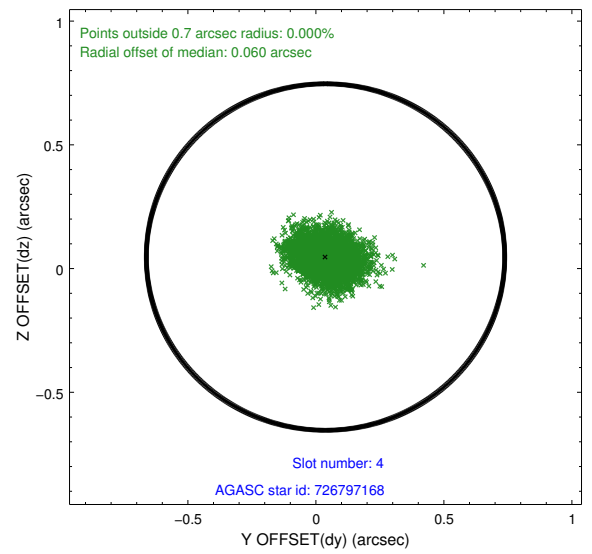
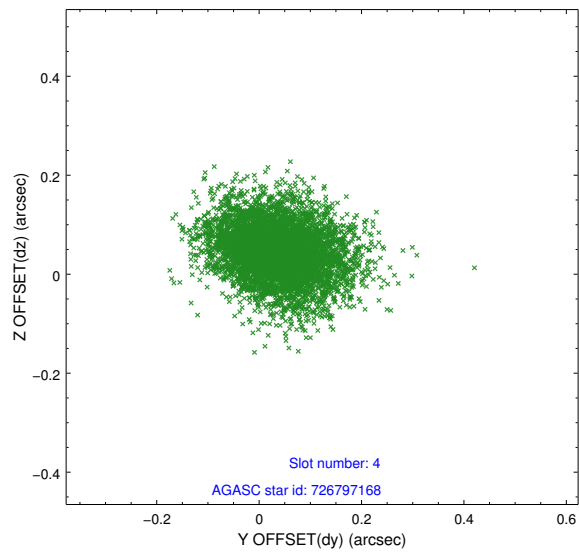
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## 2.4 Star Slots

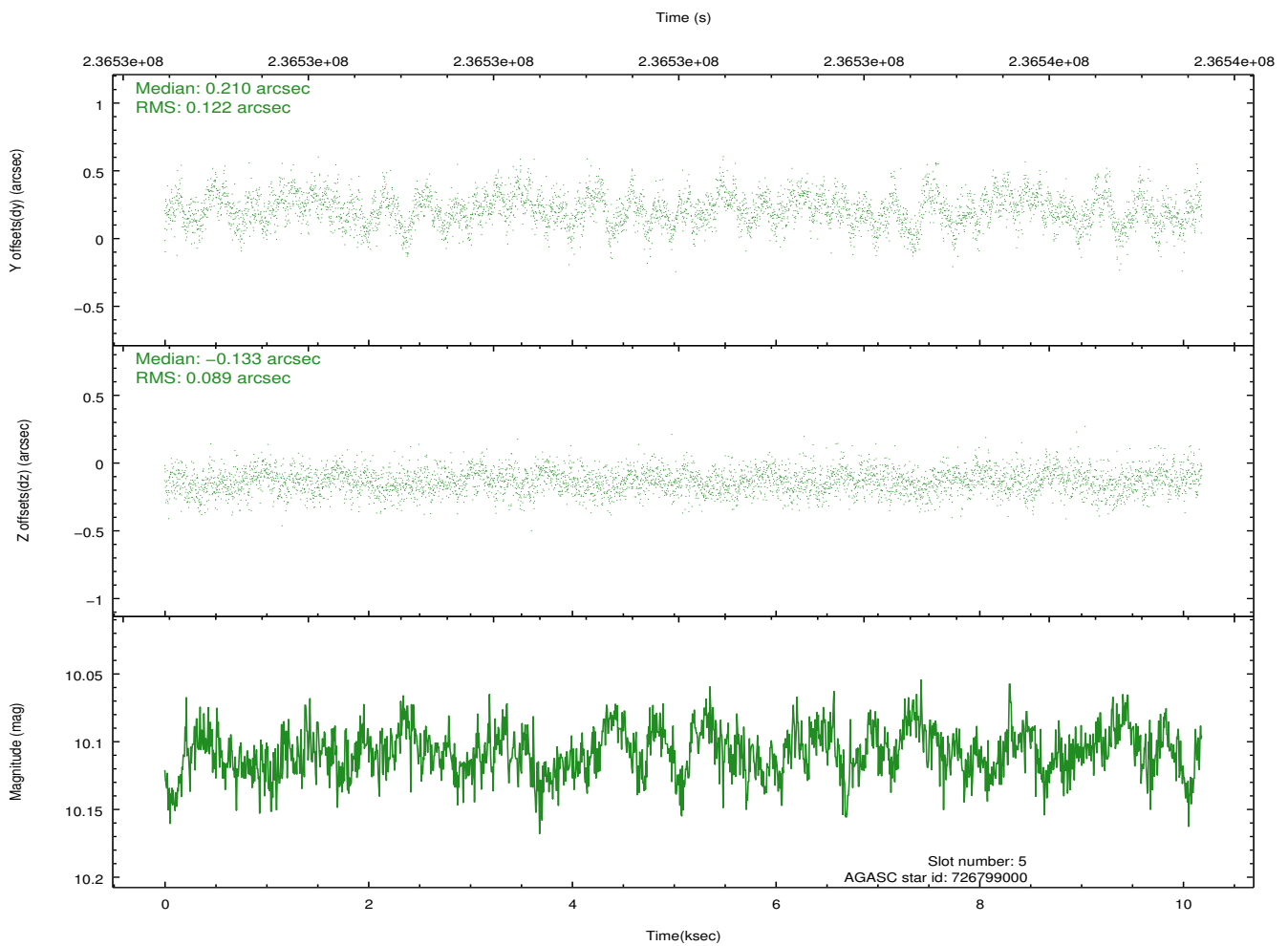
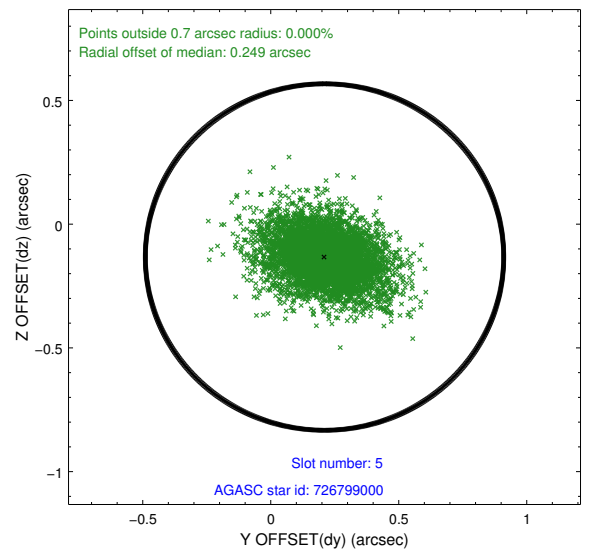
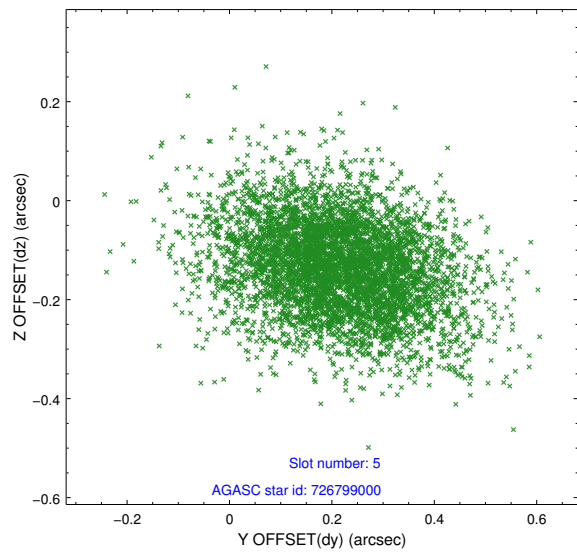
### 2.4.1 Slot 3



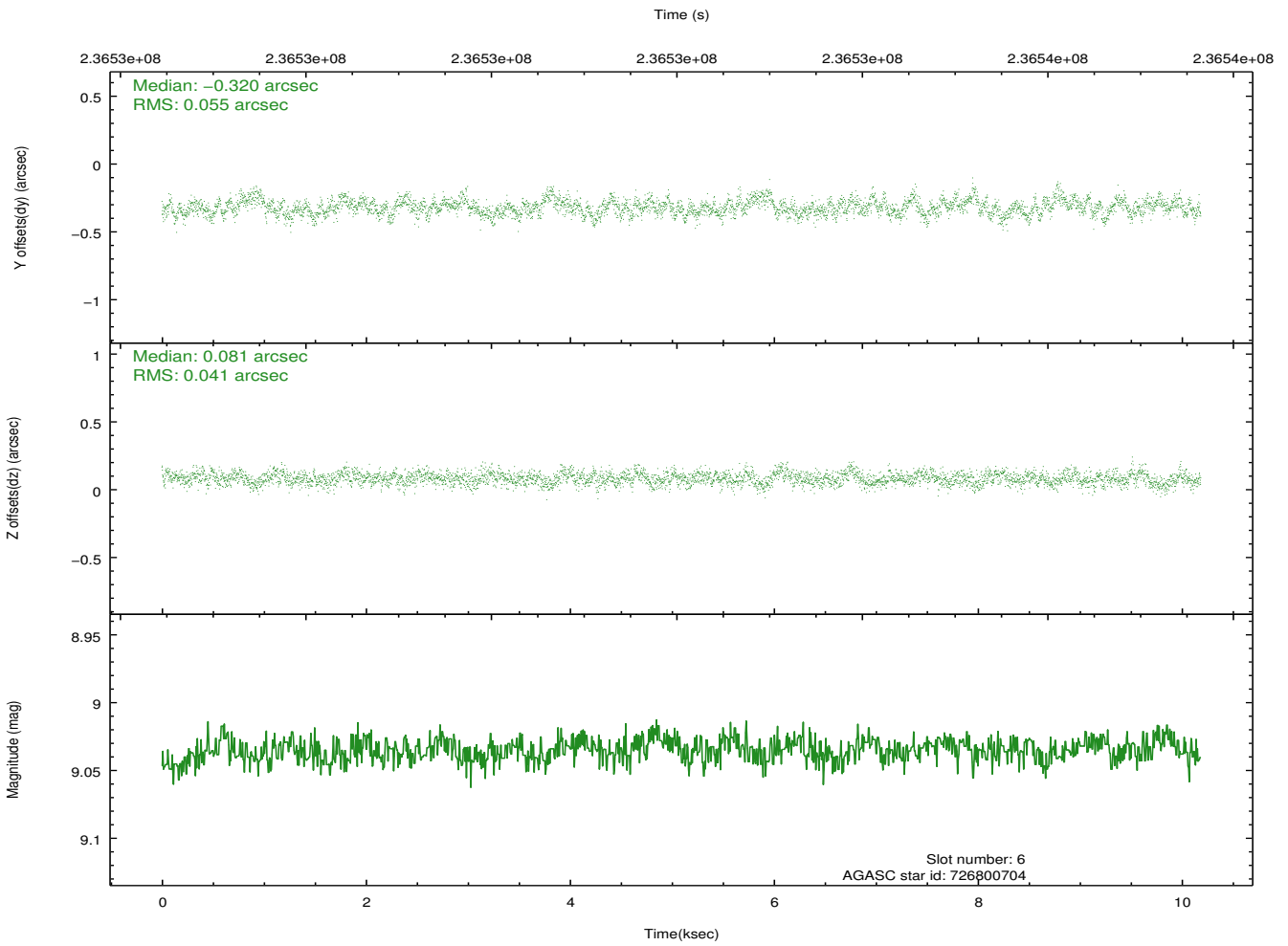
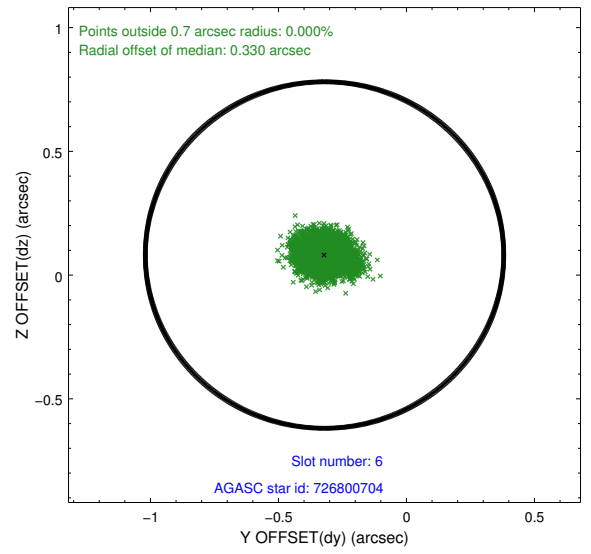
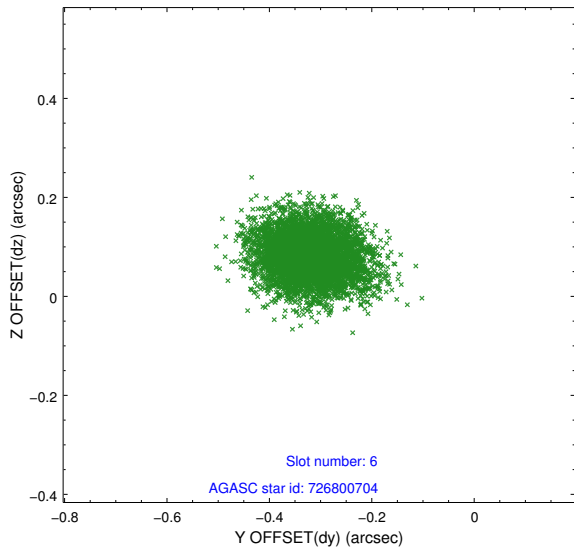
## 2.4.2 Slot 4



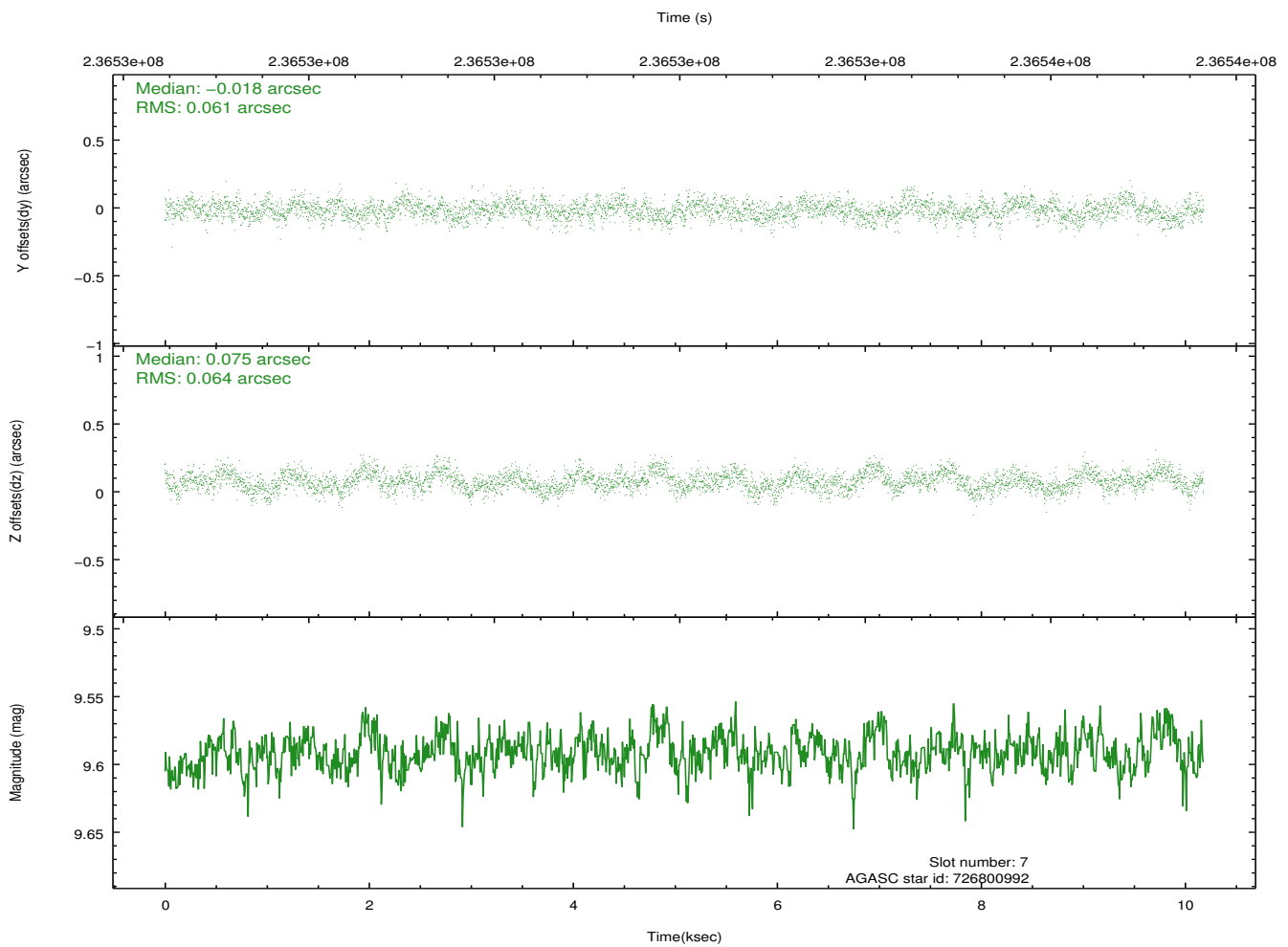
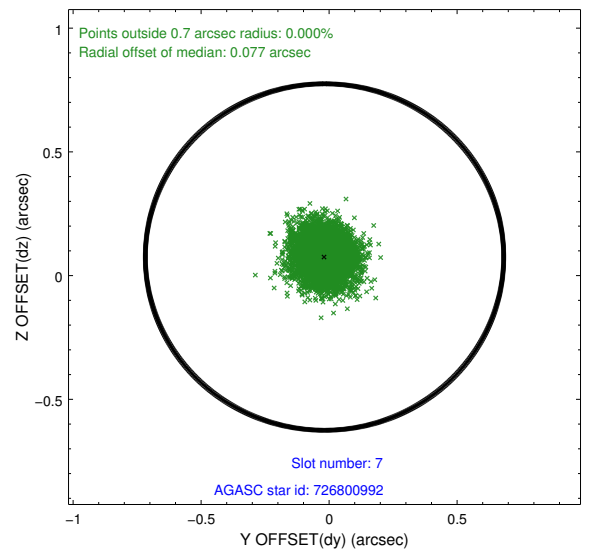
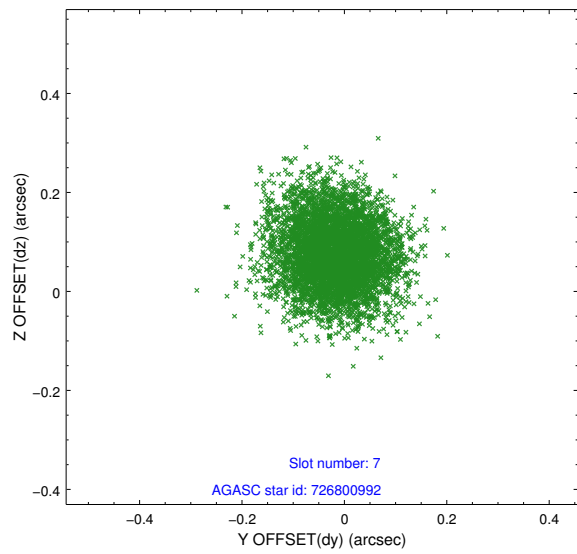
### 2.4.3 Slot 5



### 2.4.4 Slot 6

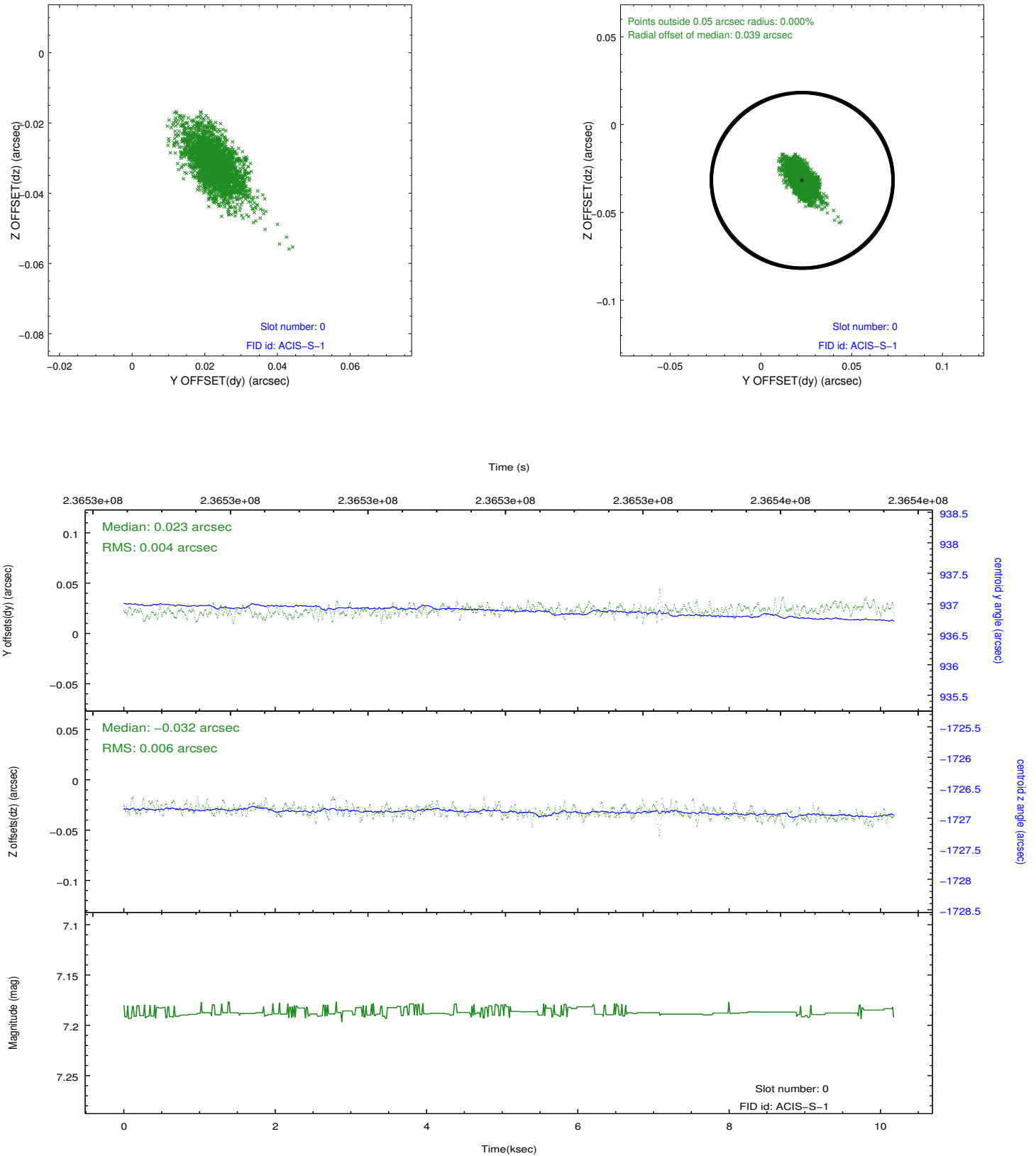


## 2.4.5 Slot 7

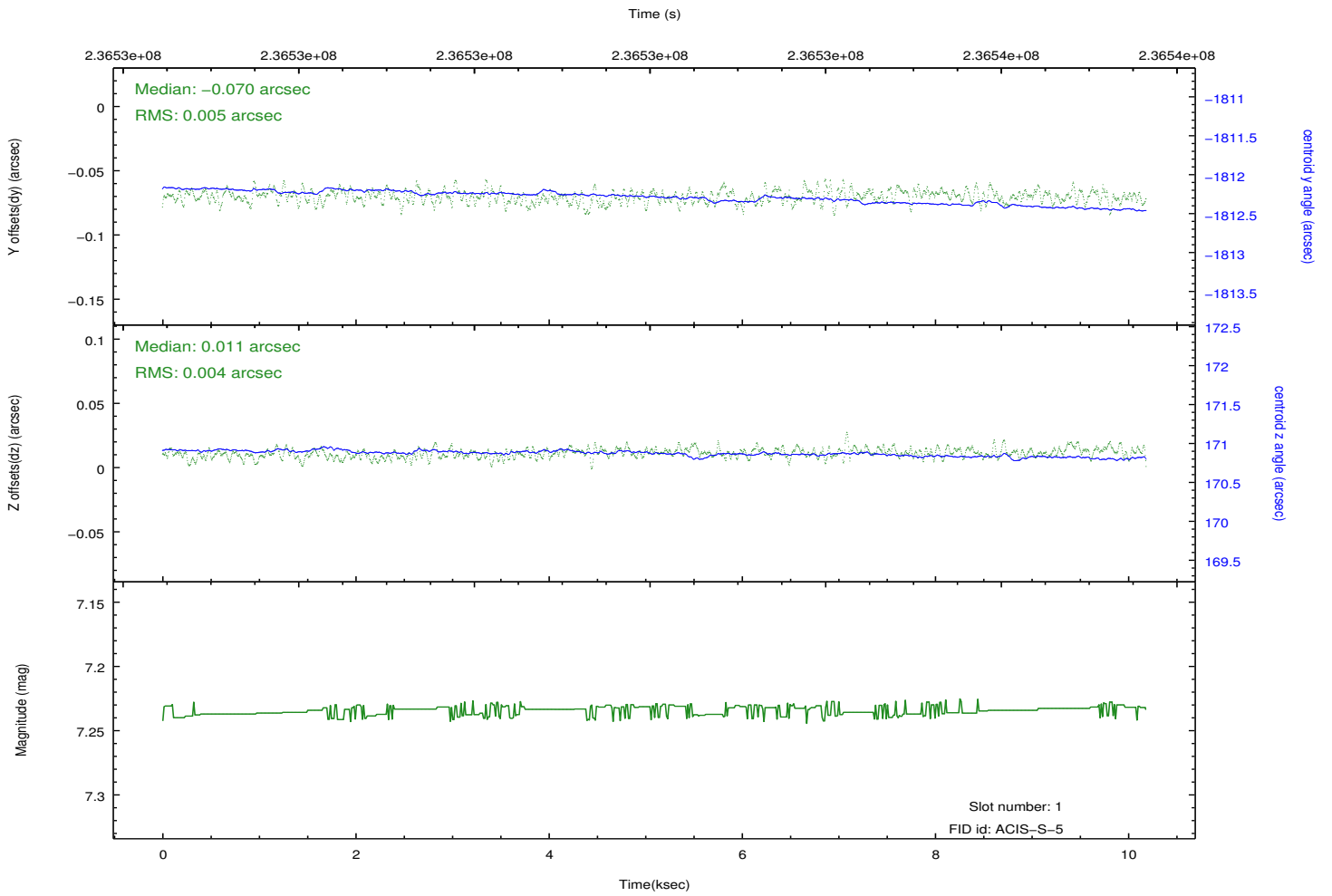
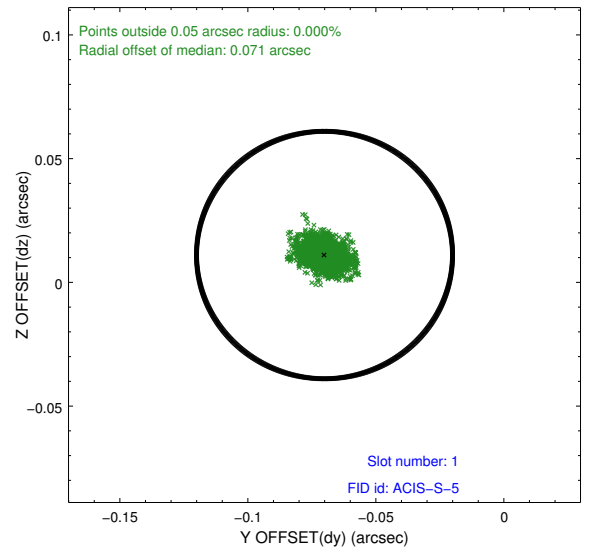
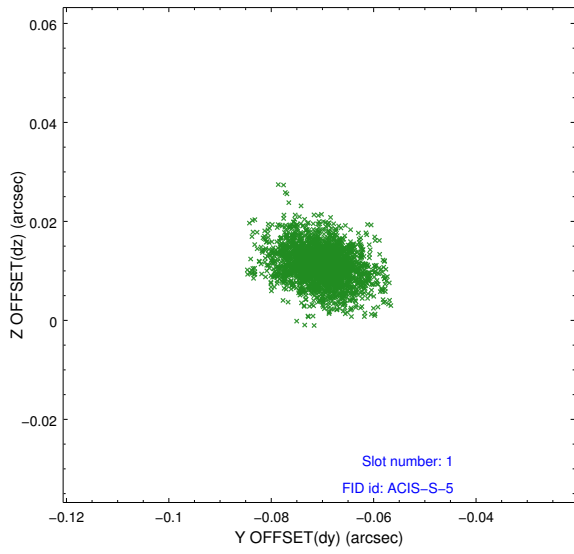


## 2.5 FID Slots

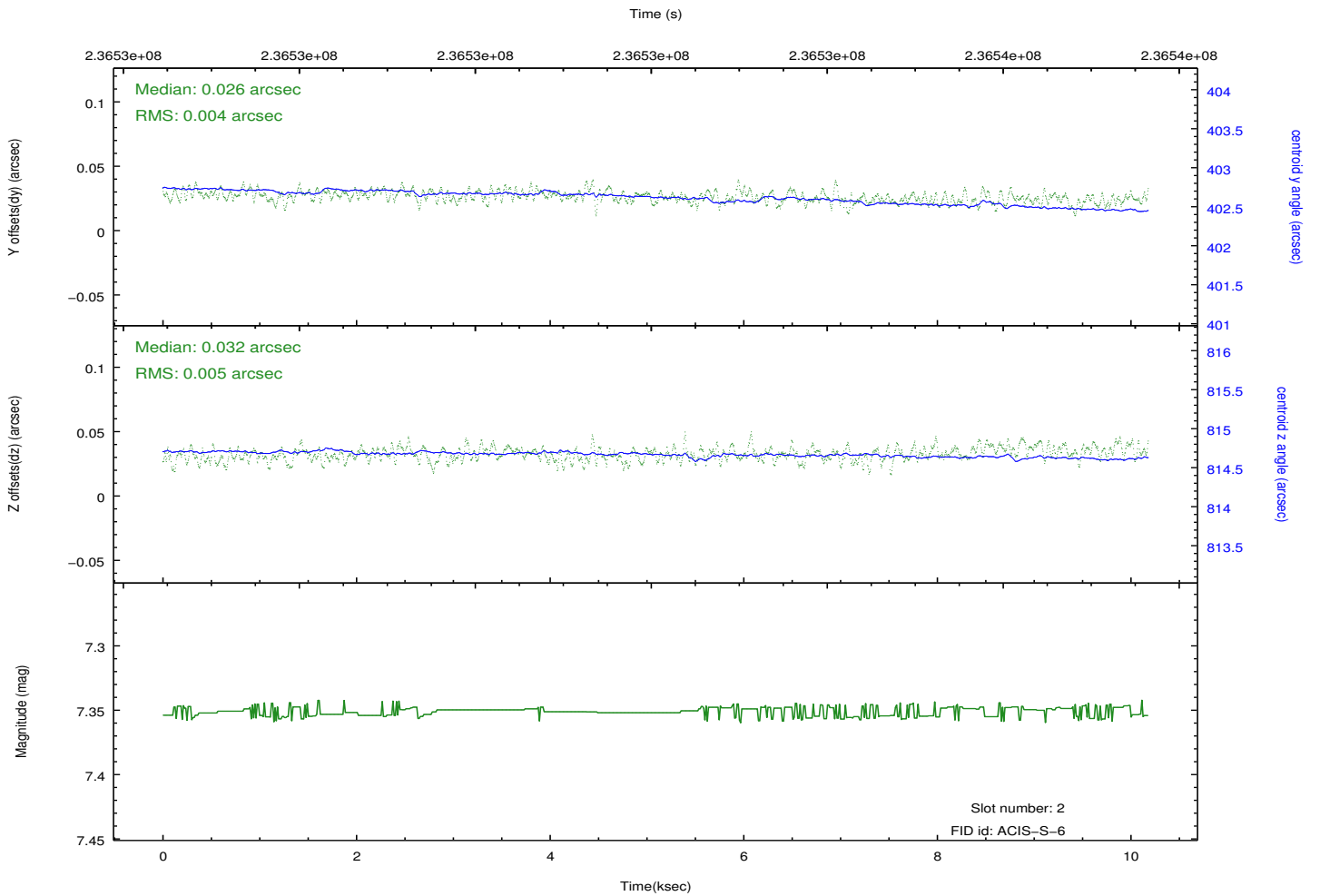
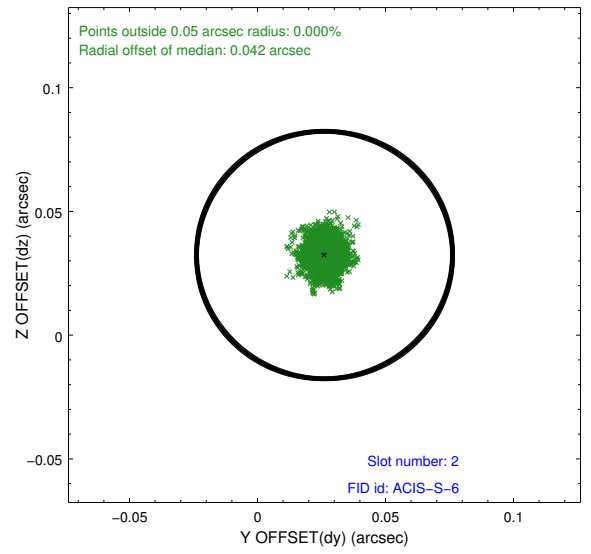
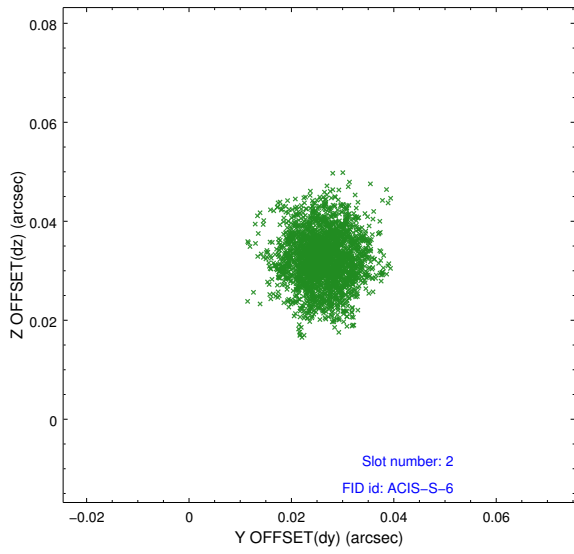
### 2.5.1 Slot 0



## 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)	2013.01.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.18239

## A.2 Comments

This is a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.