

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8619 - L2 Version 3  
Chandra X-Ray Center

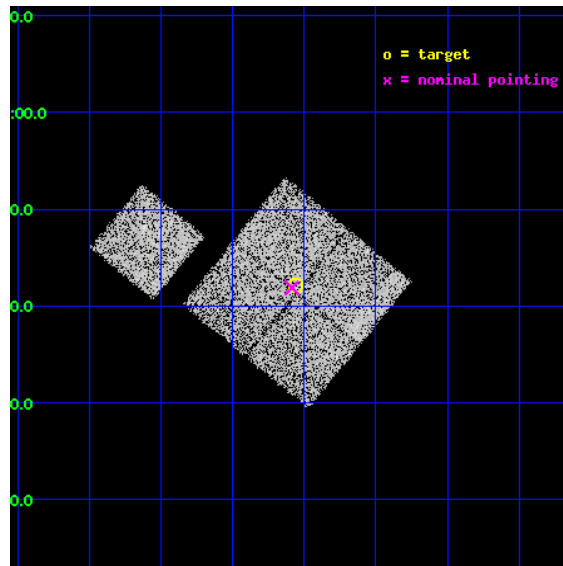
L2 Processing Date : May 7 2012

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# 1 Front

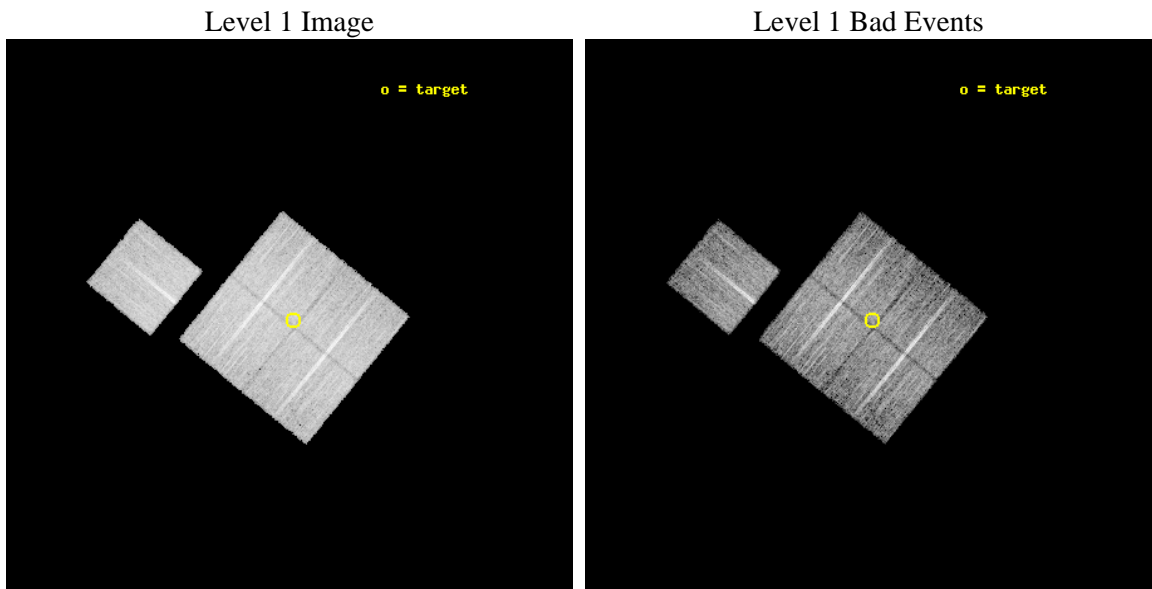
seq_num	900756	Sequence number
obs_id	8619	Observation id
title	Chandra Observations of the DEEP2 Fields	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	DEEP2 Field 4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.639639	Observer's specified target RA [deg]
dec_targ	0.702421	Observer's specified target Dec [deg]
ra_nom	36.646373038105	Nominal RA [deg]
dec_nom	0.69800381875399	Nominal Dec [deg]
roll_nom	309.23859179222	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9163.4771296978	Sum of GTIs [s]
livetime	9043.7495549446	Livetime [s]
ontime0	9169.7591002584	Sum of GTIs [s]
ontime1	9172.9000705481	Sum of GTIs [s]
ontime2	9172.9000705481	Sum of GTIs [s]
ontime3	9163.4771296978	Sum of GTIs [s]
ontime6	9169.7590802908	Sum of GTIs [s]
l2events	30884	Number of level 2 events



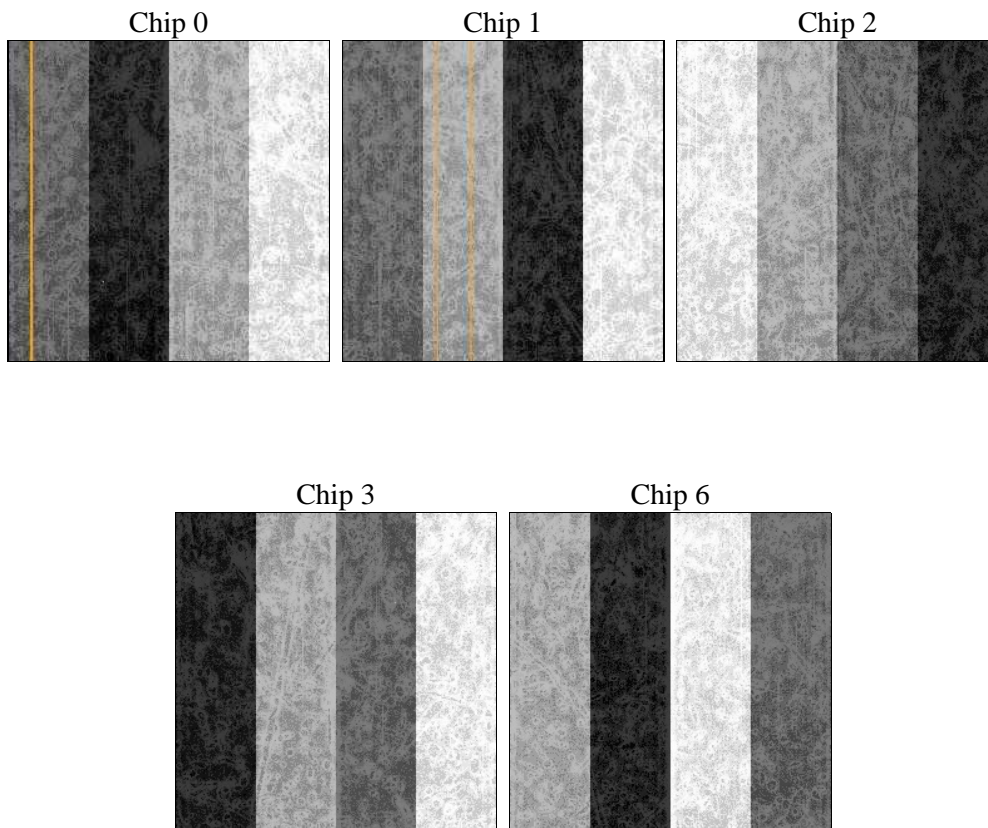
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	9163.4771296978	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	9169.7591002584	Sum of GTIs [s]
date	2012-05-07T18:49:31	Date and time of file creation	ontime1	9172.9000705481	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	9172.9000705481	Sum of GTIs [s]
			ontime3	9163.4771296978	Sum of GTIs [s]
			ontime6	9169.7590802908	Sum of GTIs [s]
			l1events	371224	Number of level 1 events

### 2.1.4 Events

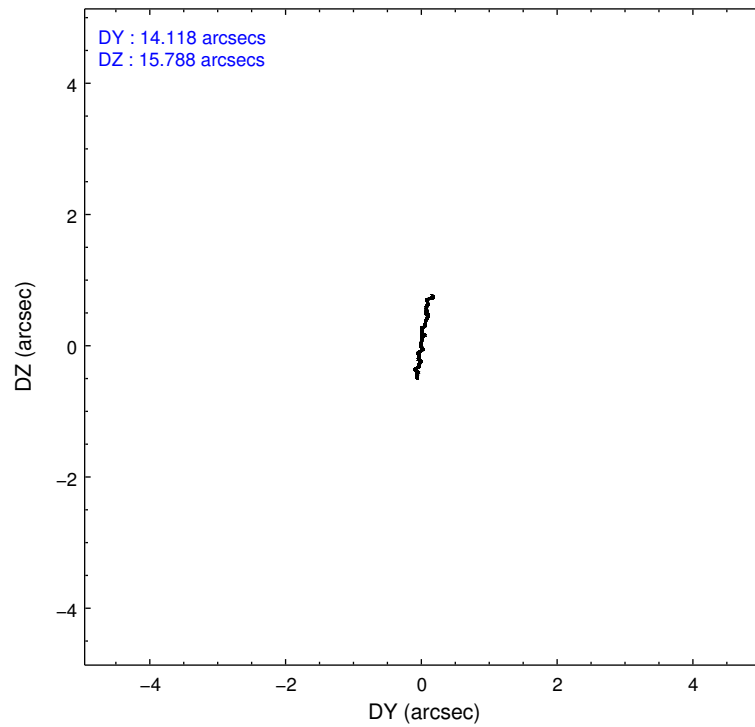
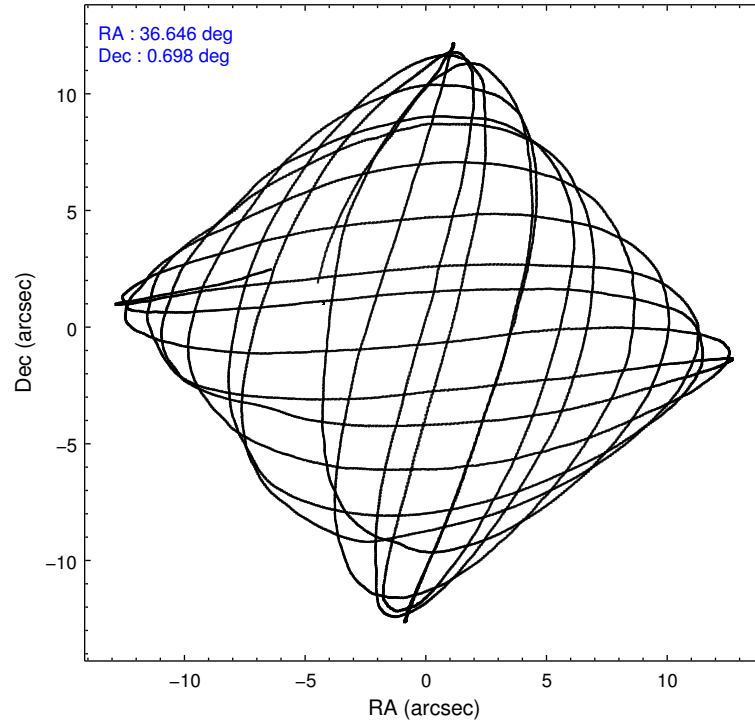
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	71223	68394	81305	75315	74987
rejected events	63820	60312	74204	68219	67280
rejected %	89%	88%	91%	90%	89%

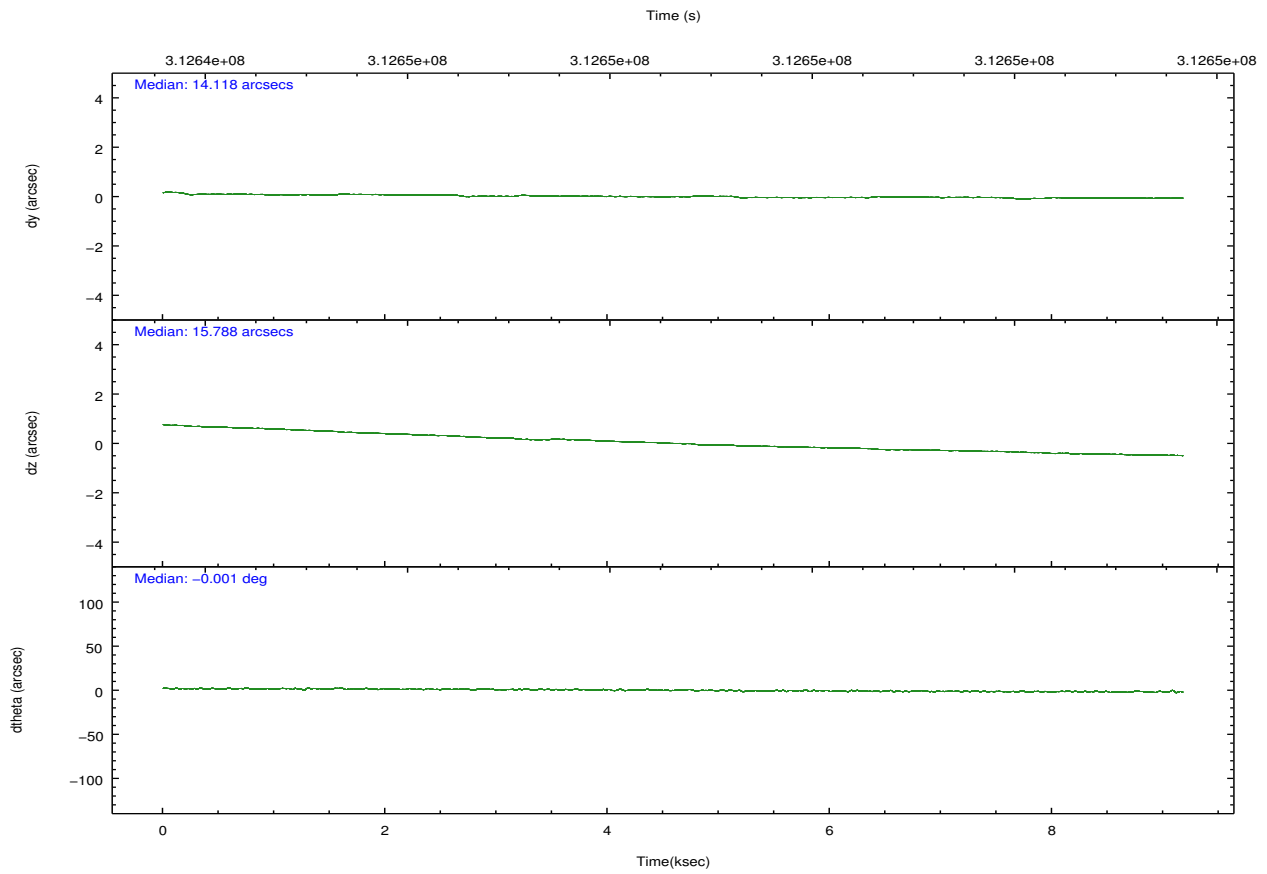
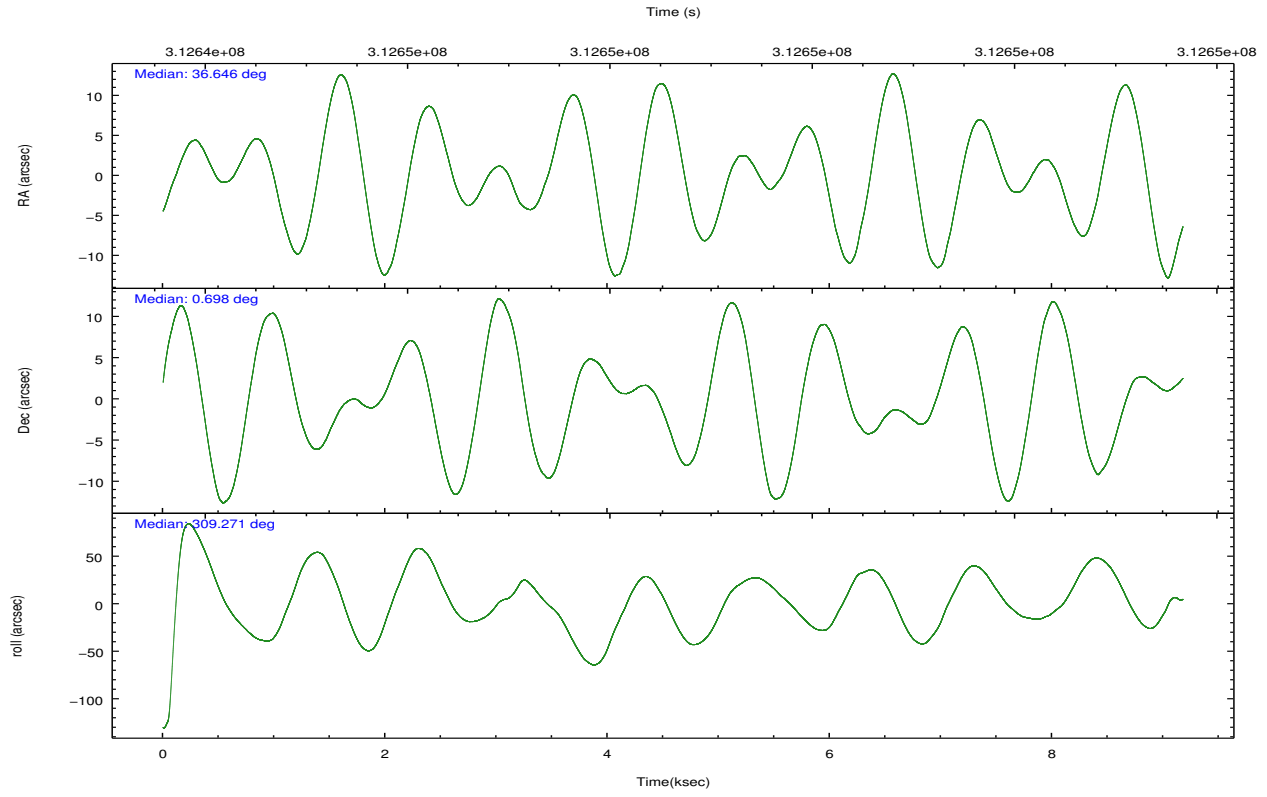
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2600	2995	2562	2458	2829
	3%	4%	3%	3%	3%
grade 1 events	49	43	48	48	45
	0%	0%	0%	0%	0%
grade 2 events	1887	1831	1756	1617	1773
	2%	2%	2%	2%	2%
grade 3 events	855	844	859	854	828
	1%	1%	1%	1%	1%
grade 4 events	819	856	746	872	840
	1%	1%	0%	1%	1%
grade 5 events	2693	2902	2494	3095	2968
	3%	4%	3%	4%	3%
grade 6 events	1425	1729	1348	1466	1625
	2%	2%	1%	1%	2%
grade 7 events	60895	57194	71492	64905	64079
	85%	83%	87%	86%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	36.620632	36.64637303810548	CCD I2 on	Y	Y
[deg] Pointing Dec	0.707610	0.6980038187539918	CCD I3 on	Y	Y
[deg] Pointing Roll	309.030230	309.2385917922152	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	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	312644215.184000	312643117.92564	CCD S5 on	N	N
Observation start date	2007-11-28T13:35:50	2007-11-28T13:18:37	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	312653215.184000	312653349.47614	On-chip summing requested	N	N
Observation end date	2007-11-28T16:05:50	2007-11-28T16:09:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



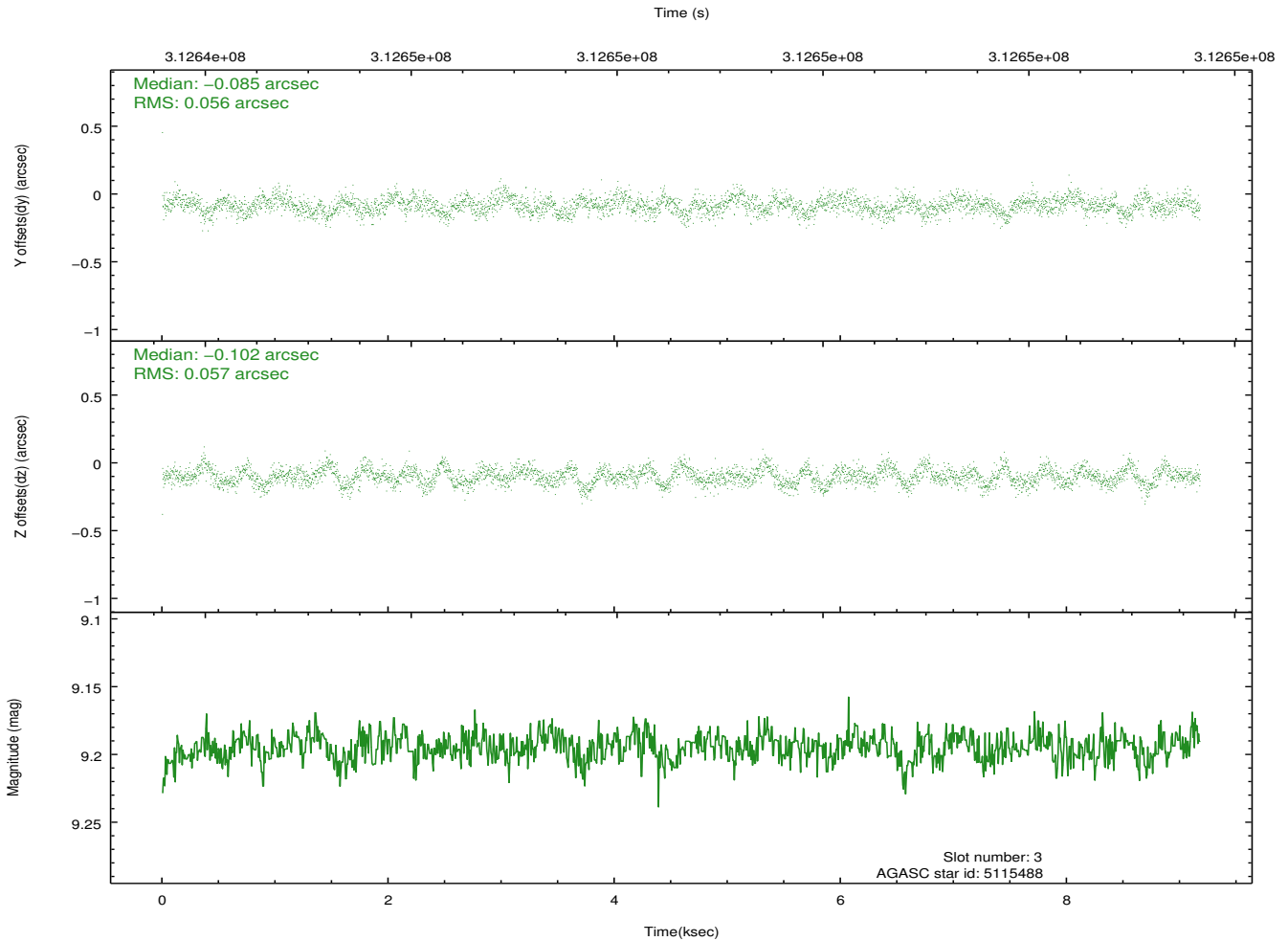
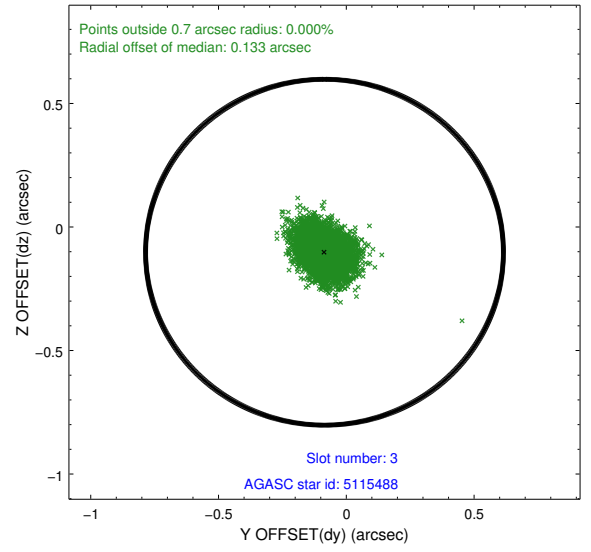
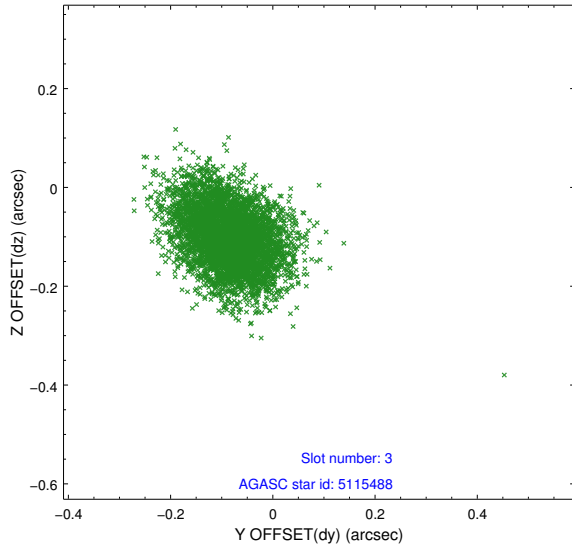


### Slot Statistics

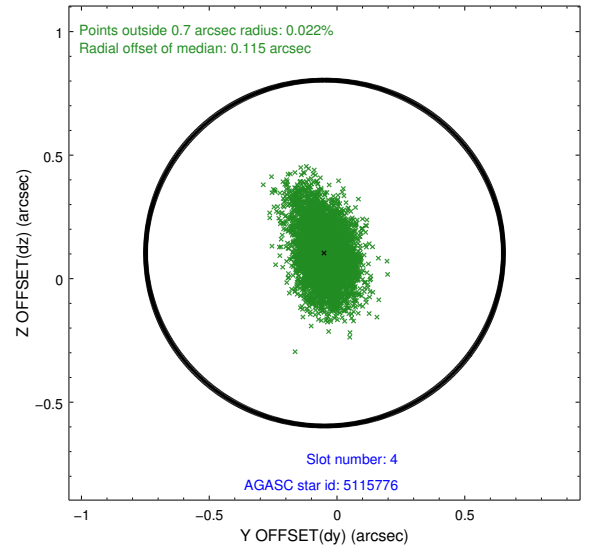
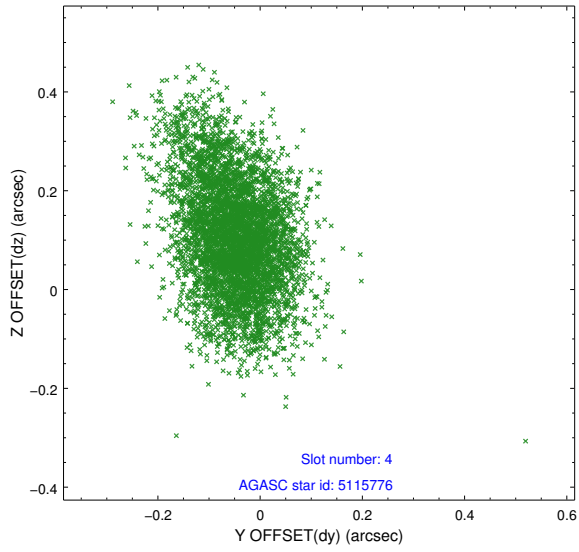
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	2238	0.052	-0.042	0.015	0.022	0.000000	0.000000	925.39	-839.51
1	FID	ACIS-I-5	7.22	2239	-0.218	0.048	0.011	0.017	0.000000	0.000000	-1822.62	1057.82
2	FID	ACIS-I-6	7.23	2239	0.075	0.062	0.011	0.018	0.000000	0.000000	390.36	1702.97
3	GUIDE	5115488	9.20	4476	-0.085	-0.102	0.085	0.139	36.407489	1.225671	-1930.49	580.08
4	GUIDE	5115776	9.66	4474	-0.049	0.104	0.133	0.235	36.405971	0.913022	-1060.58	-133.16
5	GUIDE	5116480	9.28	4475	-0.038	0.141	0.102	0.164	36.624607	0.603451	301.16	-224.34
6	GUIDE	5119056	9.54	4473	0.170	-0.146	0.104	0.167	36.799344	0.156256	1947.86	-750.95
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

## 2.4 Star Slots

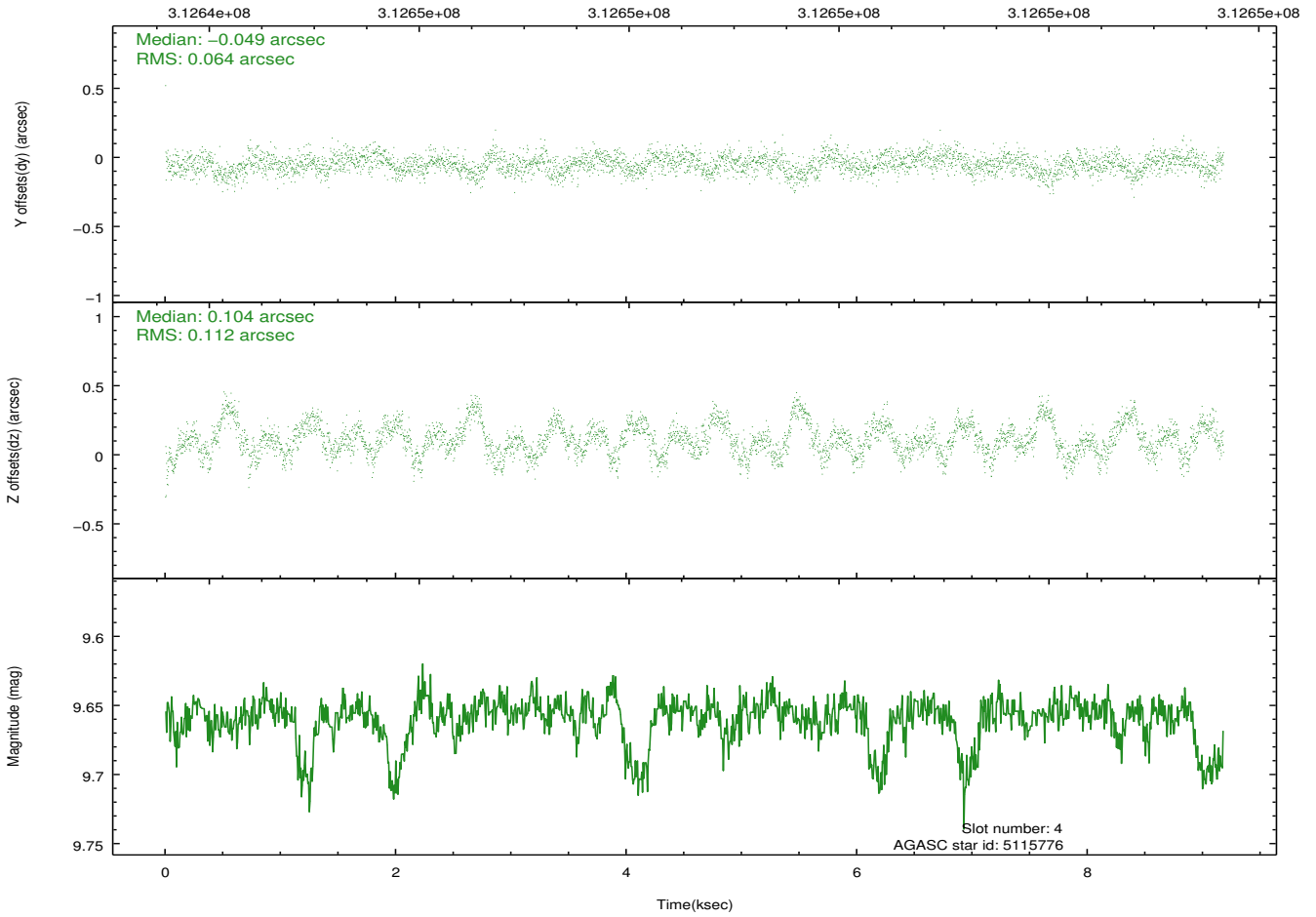
### 2.4.1 Slot 3



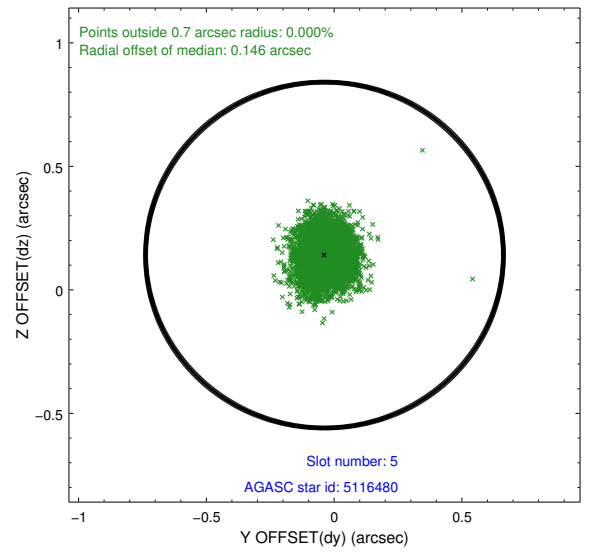
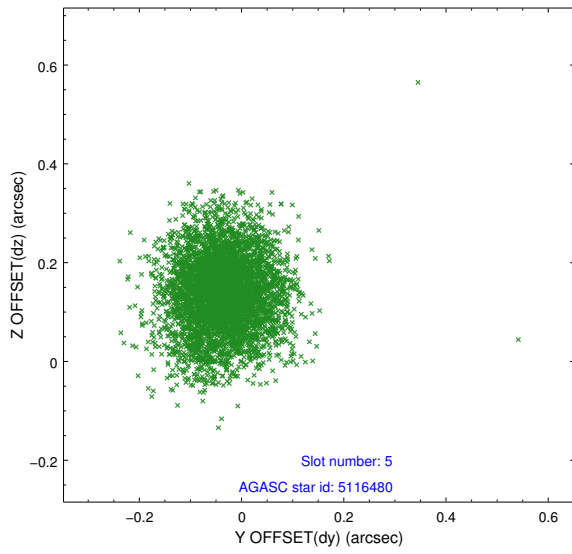
### 2.4.2 Slot 4



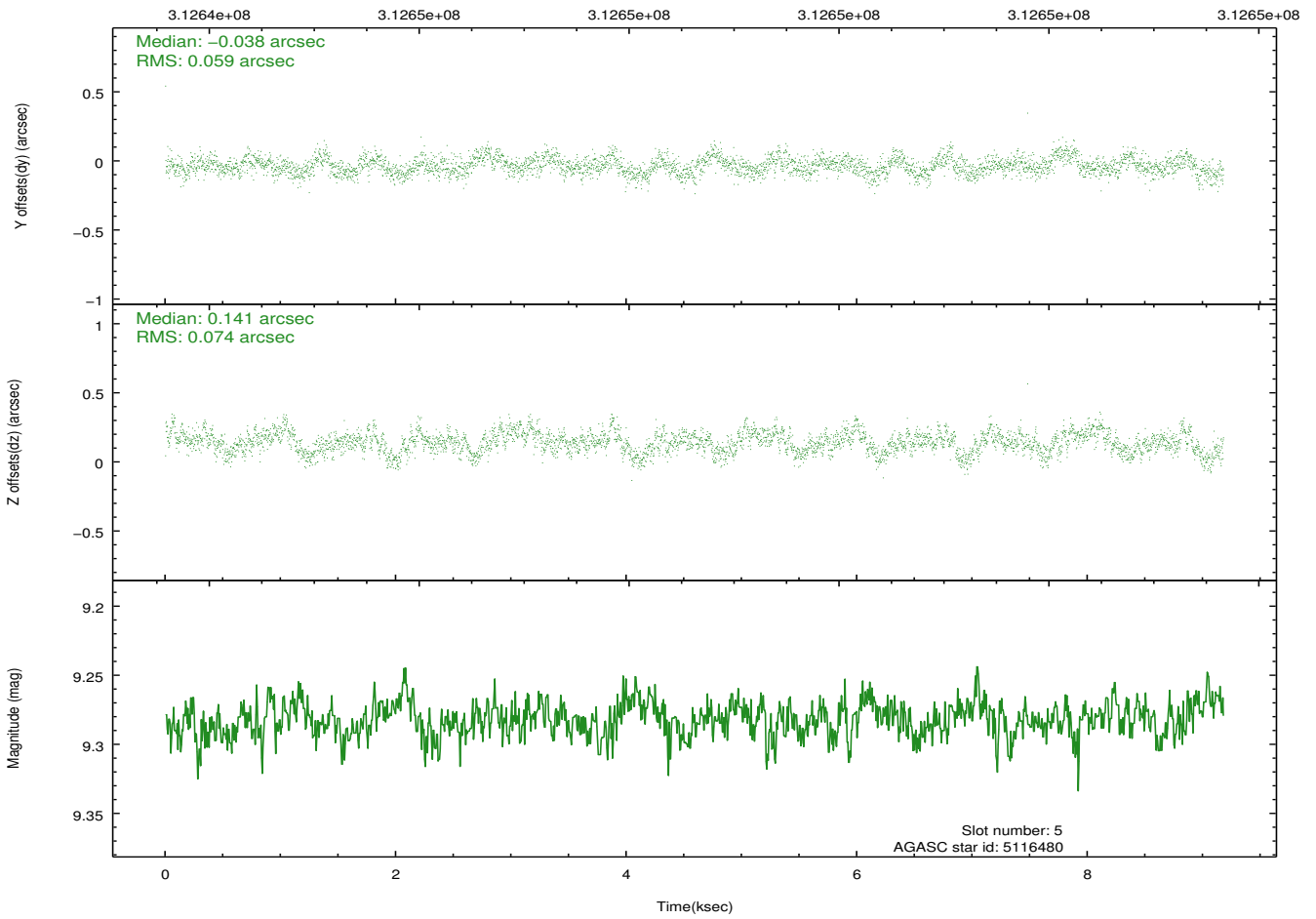
Time (s)



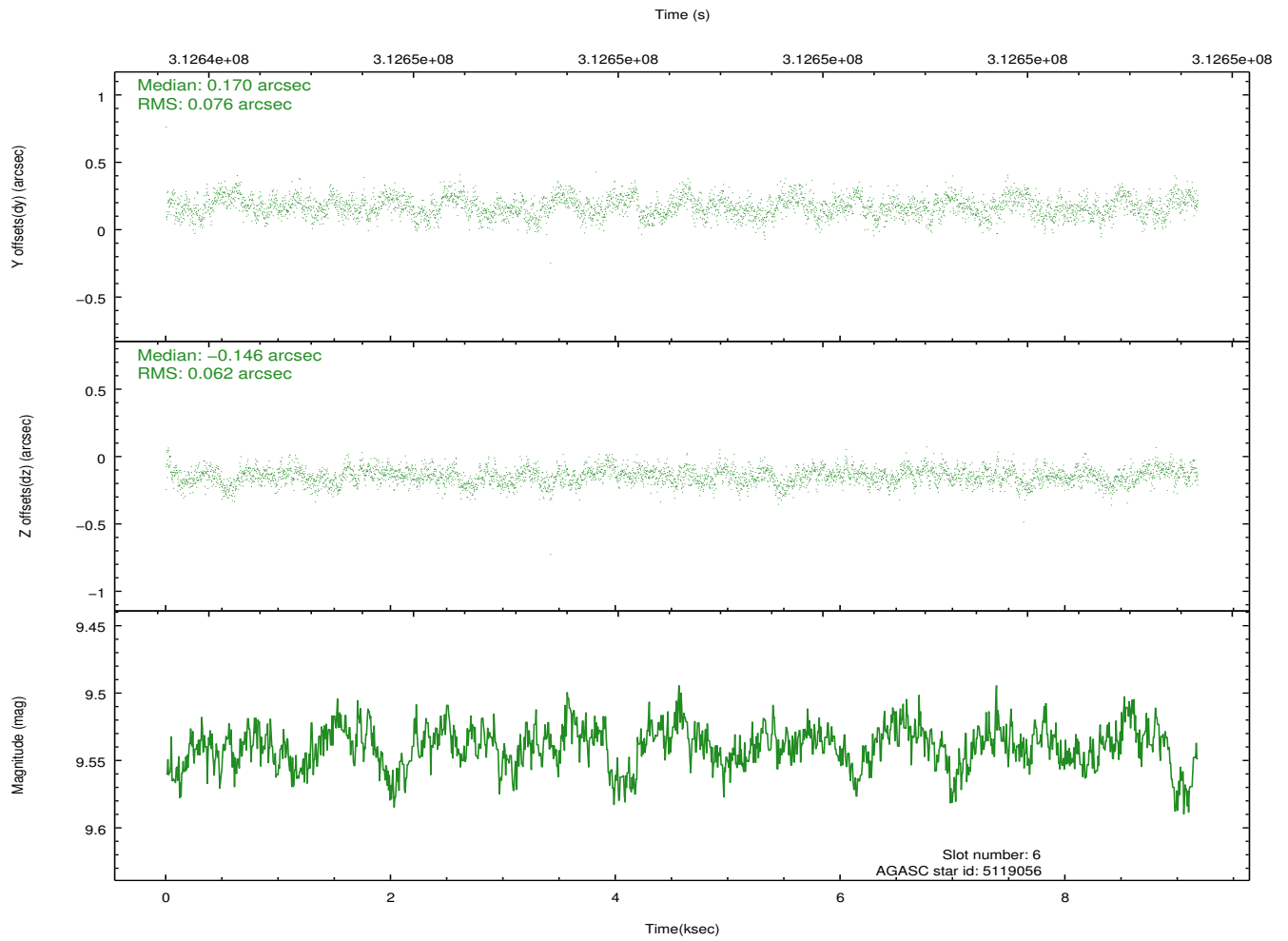
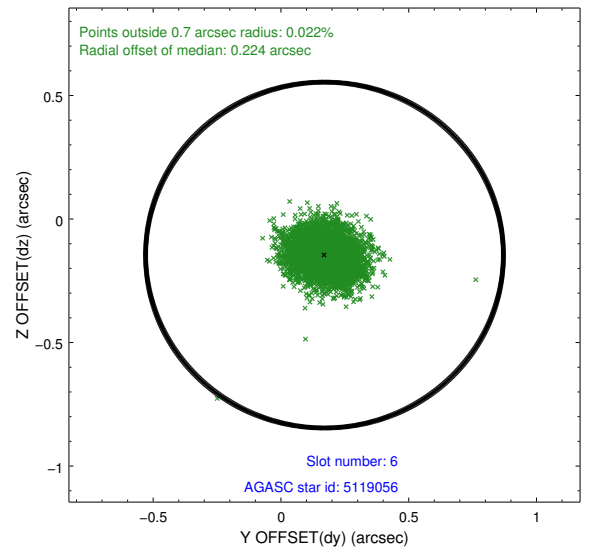
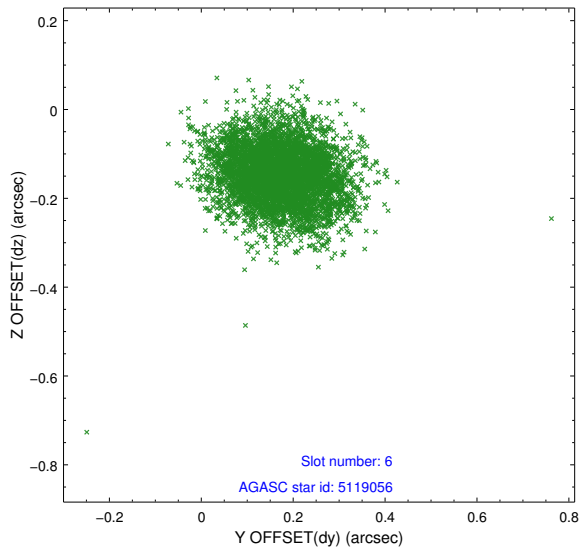
### 2.4.3 Slot 5



Time (s)

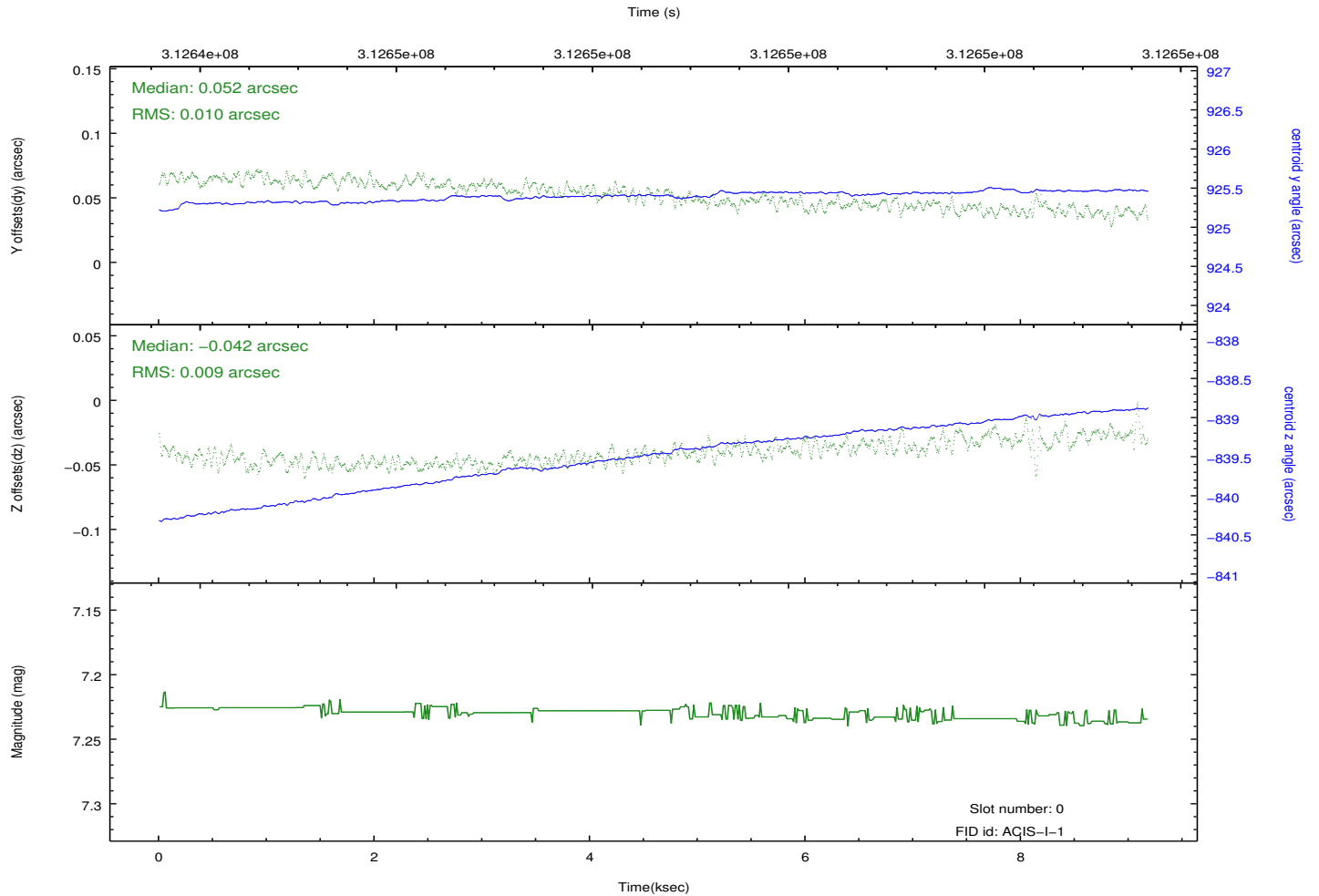
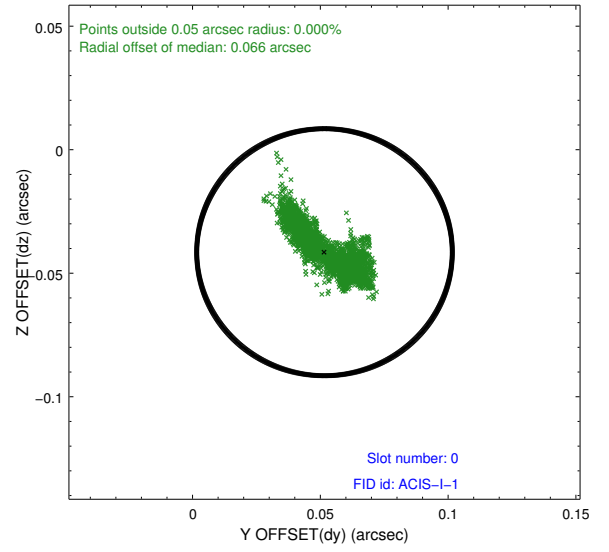
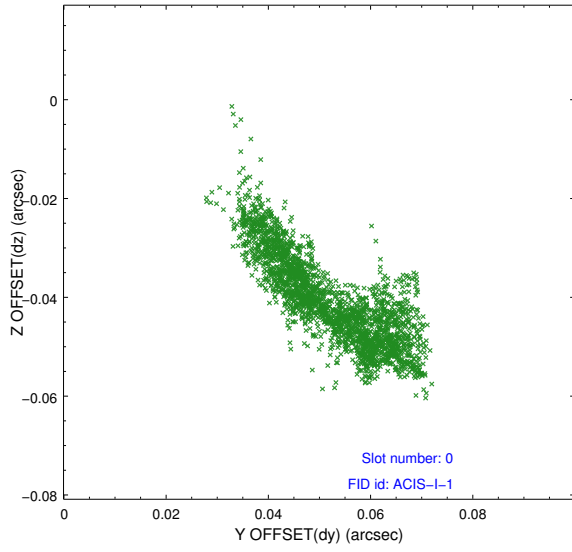


### 2.4.4 Slot 6

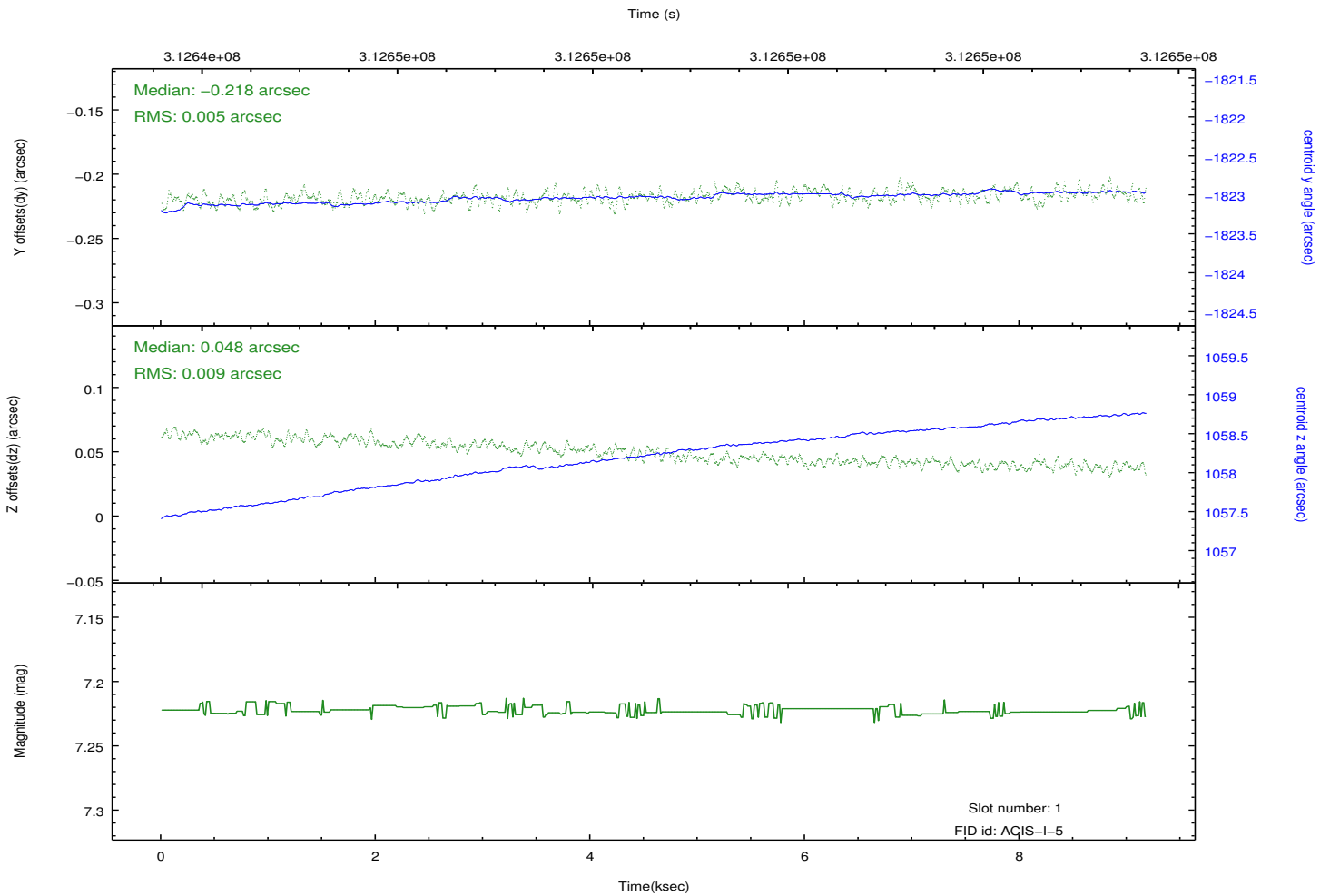
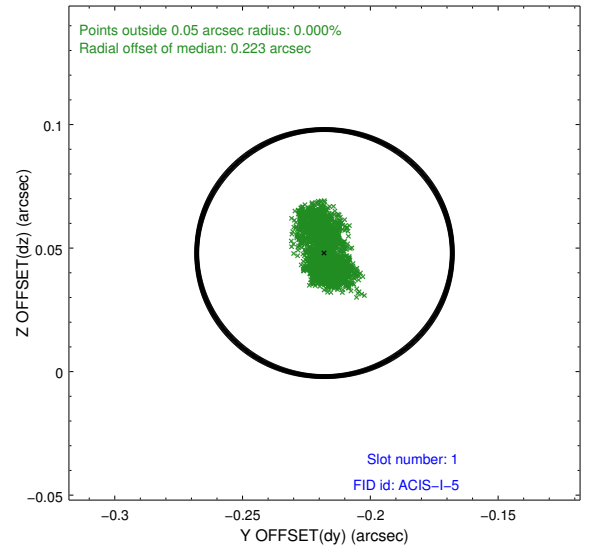
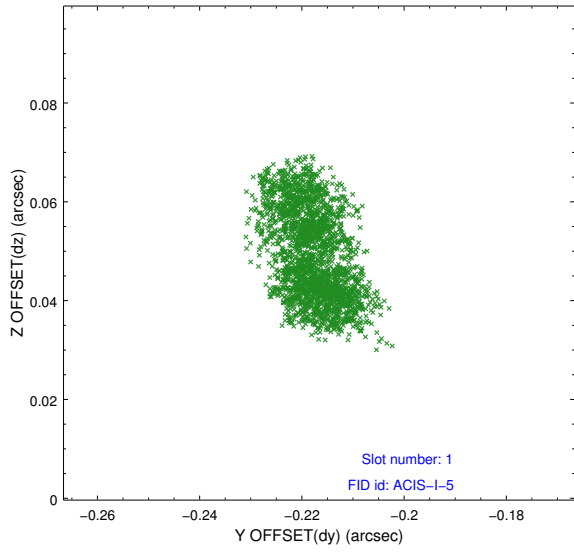


## 2.5 FID Slots

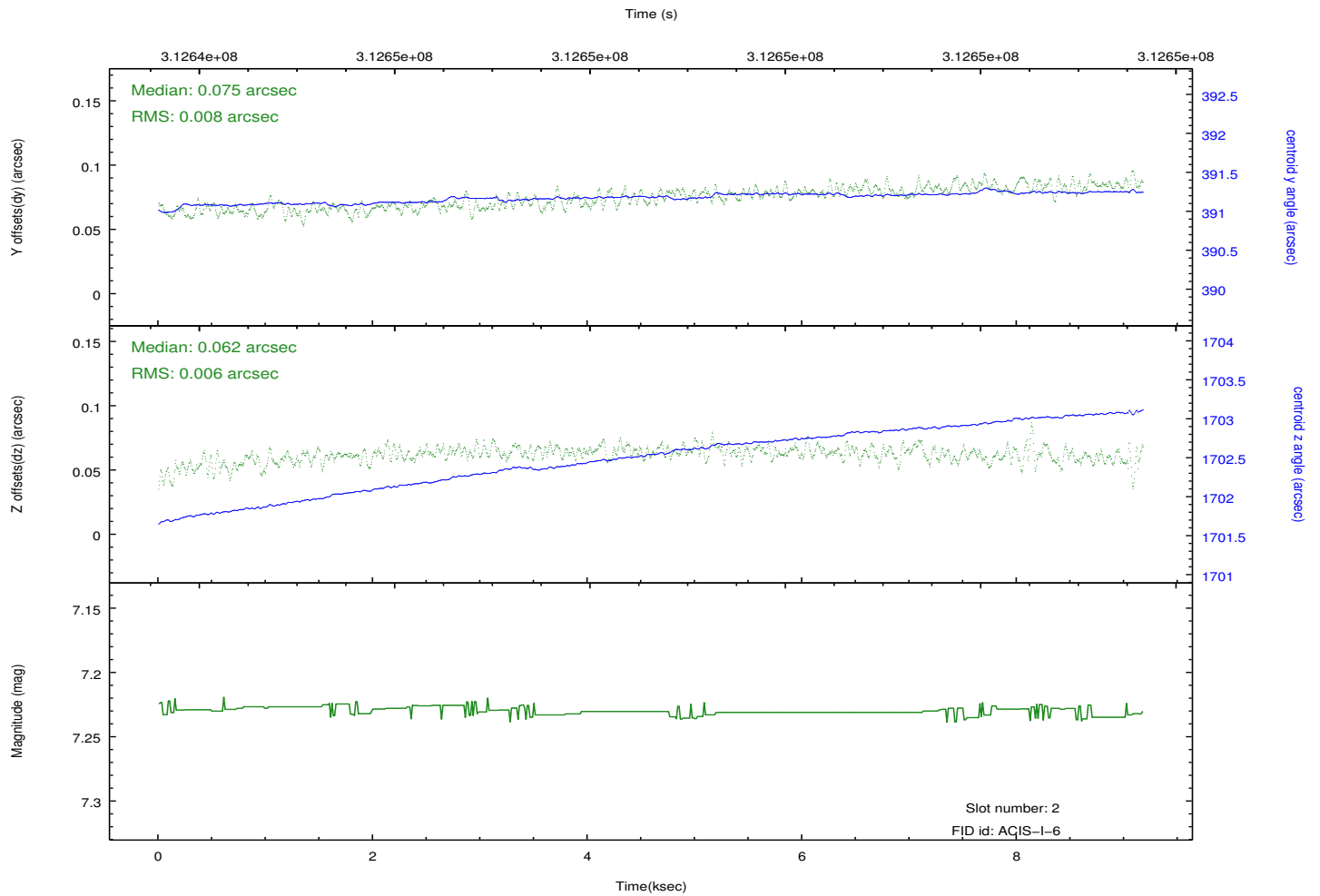
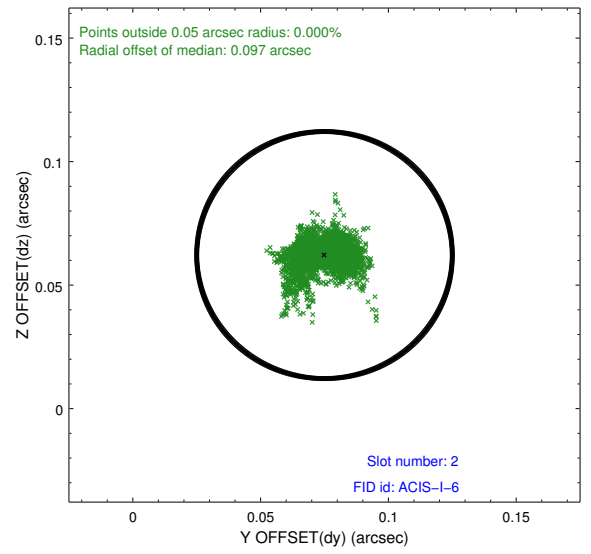
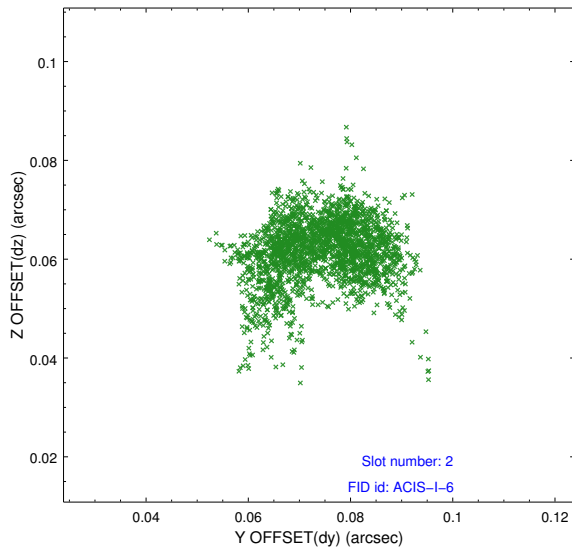
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.05.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.16347712

## A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.