

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 387 - L2 Version 4
Chandra X-Ray Center

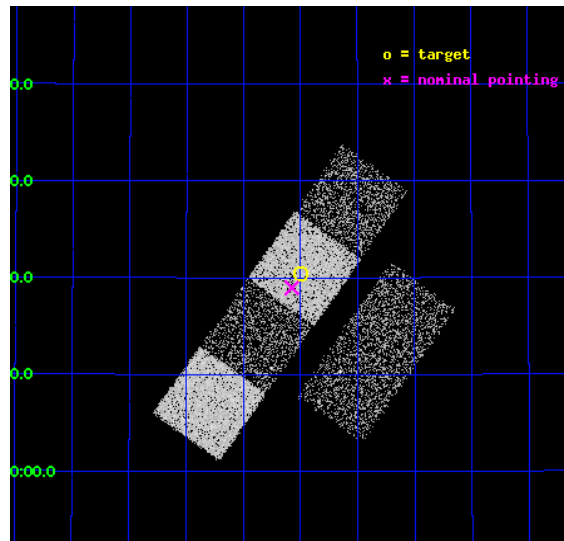
L2 Processing Date : Aug 24 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

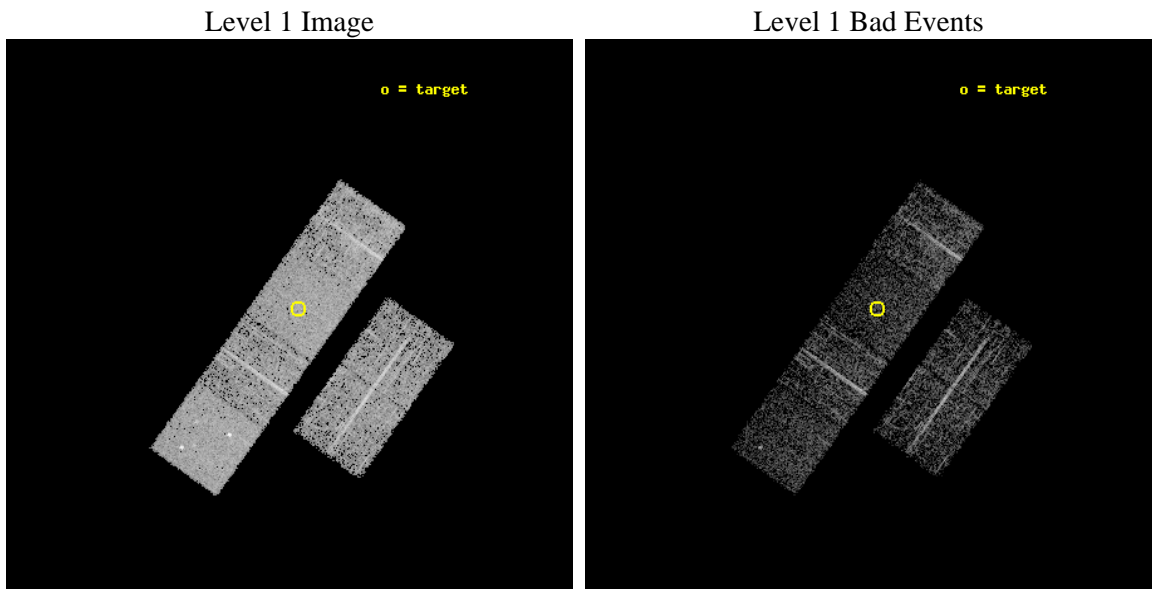
seq_num	700059	Sequence number
obs_id	387	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Professor Gordon Garmire	Principal investigator
object	NGC 1058	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.874583	Observer's specified target RA [deg]
dec_targ	37.340833	Observer's specified target Dec [deg]
ra_nom	40.893874208813	Nominal RA [deg]
dec_nom	37.315987521552	Nominal Dec [deg]
roll_nom	305.40216461938	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2438.400002256	Sum of GTIs [s]
livetime	2407.5235131993	Livetime [s]
ontime2	2438.400002256	Sum of GTIs [s]
ontime3	2438.400002256	Sum of GTIs [s]
ontime5	2438.400002256	Sum of GTIs [s]
ontime6	2438.400002256	Sum of GTIs [s]
ontime7	2438.400002256	Sum of GTIs [s]
ontime8	2438.400002256	Sum of GTIs [s]
l2events	27018	Number of level 2 events



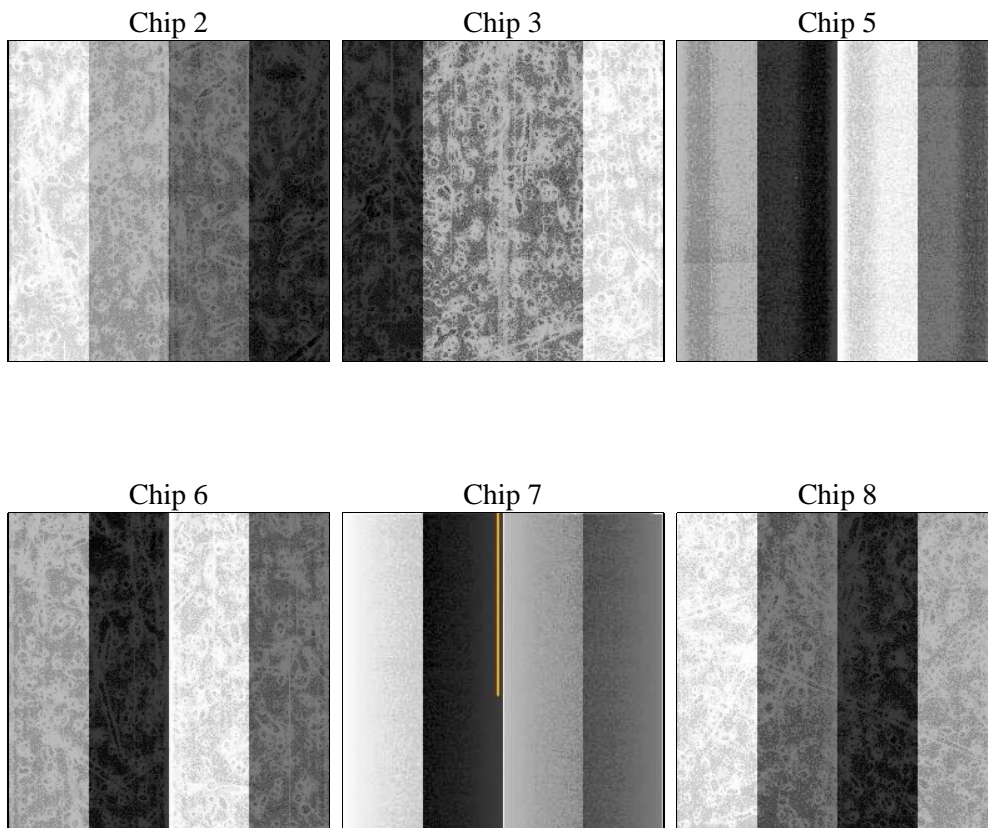
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2438.400002256	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime2	2438.400002256	Sum of GTIs [s]
date	2012-08-24T13:43:21	Date and time of file creation	ontime3	2438.400002256	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	2438.400002256	Sum of GTIs [s]
			ontime6	2438.400002256	Sum of GTIs [s]
			ontime7	2438.400002256	Sum of GTIs [s]
			ontime8	2438.400002256	Sum of GTIs [s]
			l1events	308612	Number of level 1 events

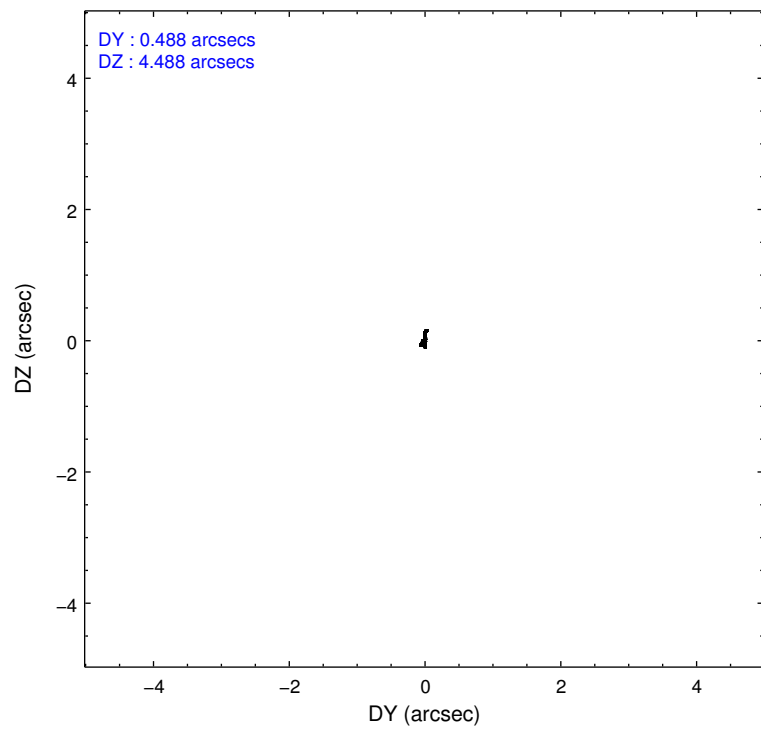
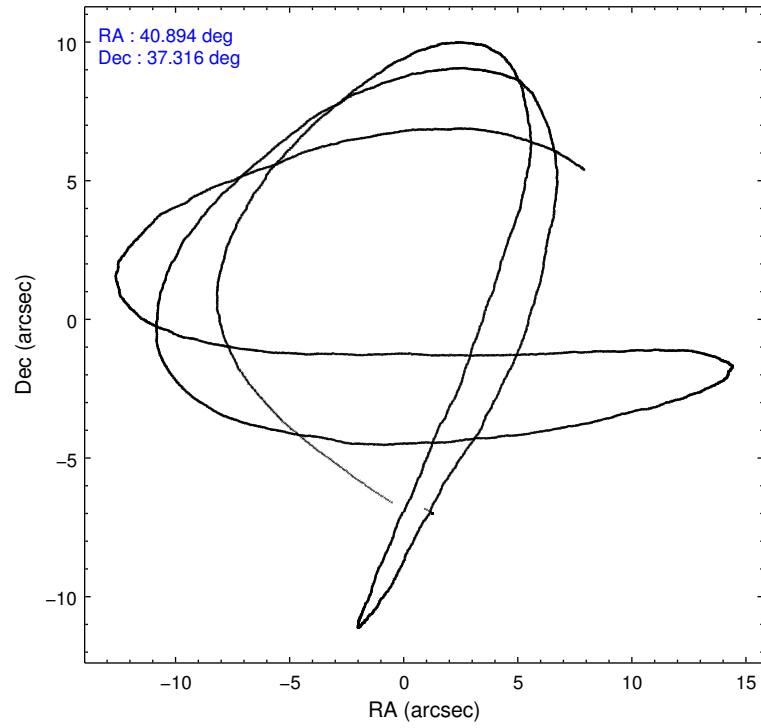
2.1.4 Events

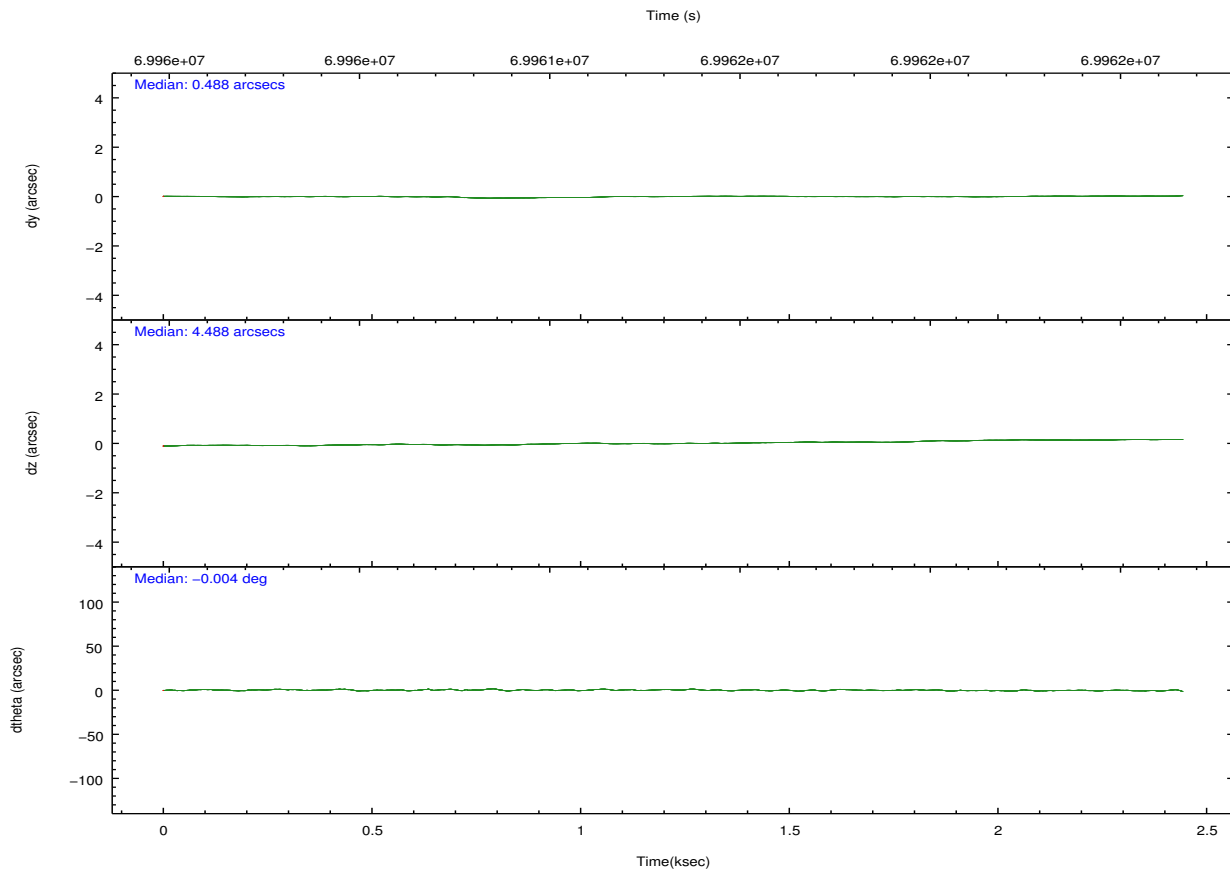
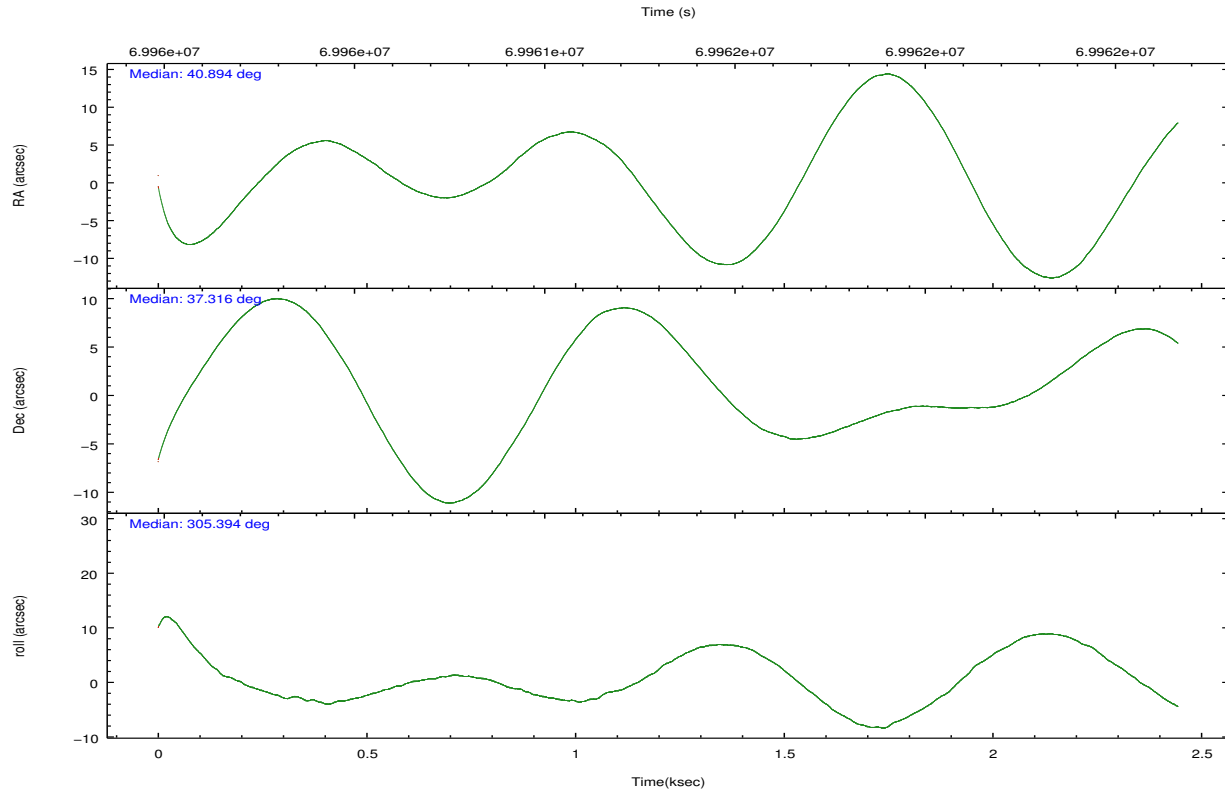
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	30421	30641	67151	29445	111757	39197	grade 0 events	1433	1464	4395	1336	2214	2346
rejected events	28542	28818	54878	27536	102028	34668		4%	4%	6%	4%	1%	5%
rejected %	93%	94%	81%	93%	91%	88%	grade 1 events	15	15	3575	22	1678	46
								0%	0%	5%	0%	1%	0%
							grade 2 events	650	588	6836	632	4016	1711
								2%	1%	10%	2%	3%	4%
							grade 3 events	318	333	1675	345	1938	760
								1%	1%	2%	1%	1%	1%
							grade 4 events	299	322	1717	304	1905	707
								0%	1%	2%	1%	1%	1%
							grade 5 events	923	987	6279	1116	5598	1524
								3%	3%	9%	3%	5%	3%
							grade 6 events	512	586	11126	537	9361	2076
								1%	1%	16%	1%	8%	5%
							grade 7 events	26271	26346	31548	25153	85047	30027
								86%	85%	46%	85%	76%	76%

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	40.862612	40.89387420881299	Subarray requested	NONE	NONE
[deg] Pointing Dec	37.327163	37.3159875215521	Alternating exposures requested	N	N
[deg] Pointing Roll	305.264464	305.4021646193792	[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)	69960548.184000	69958153.727612			
Observation start date	2000-03-20T17:28:04	2000-03-20T16:49:13			
[s] Observation end time (MET)	69962548.184000	69963016.32778899			
Observation end date	2000-03-20T18:01:24	2000-03-20T18:10:16			
Read mode	TIMED	TIMED			

2.3 Aspect



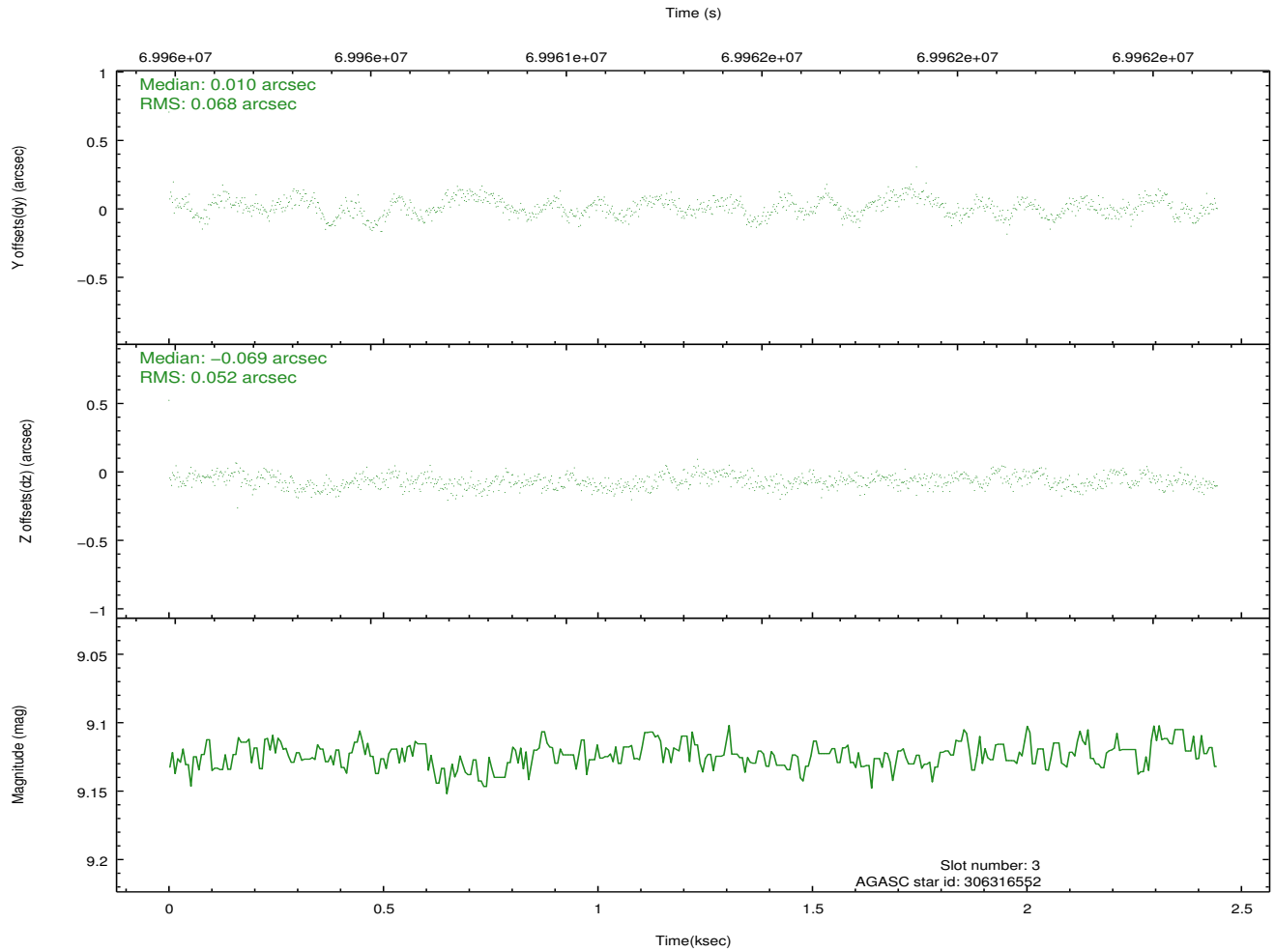
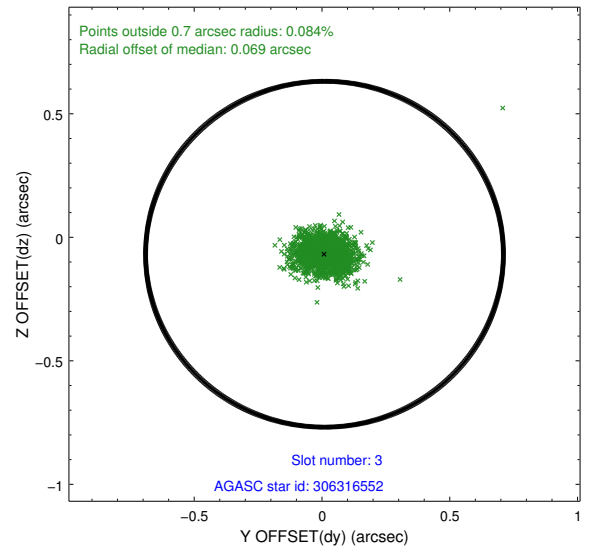
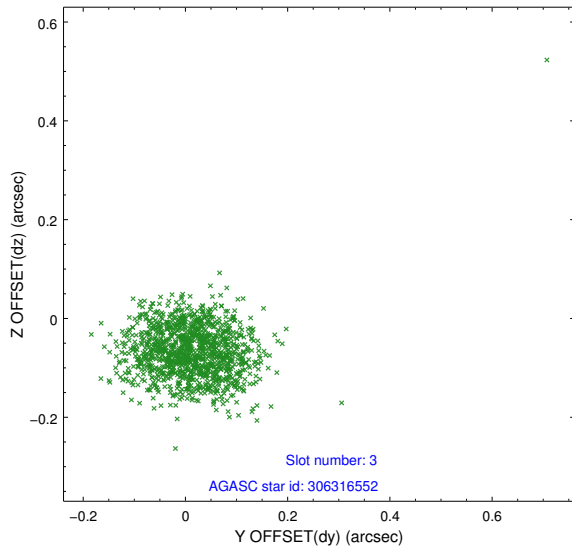


Slot Statistics

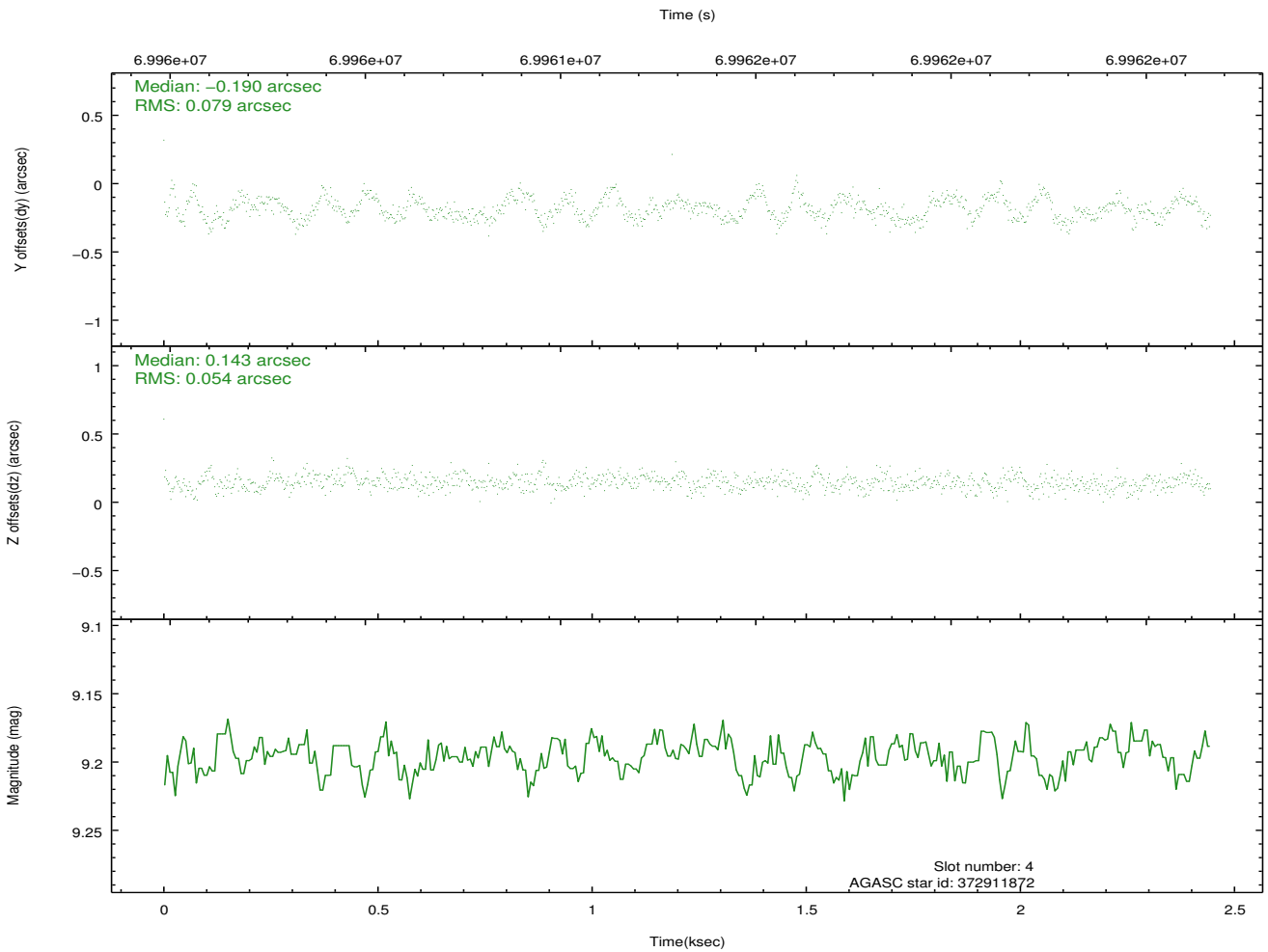
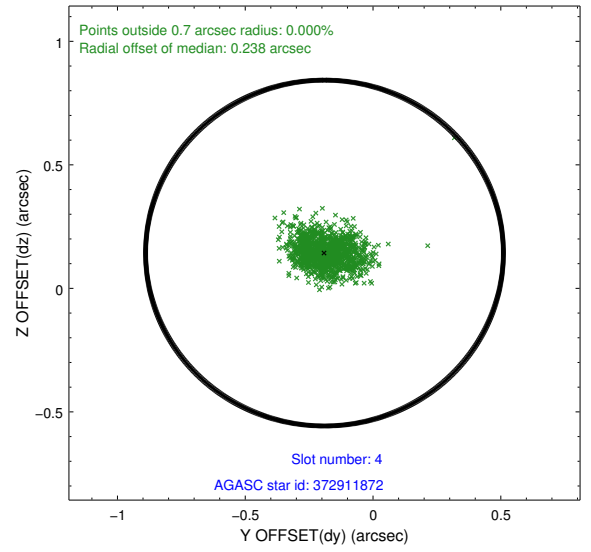
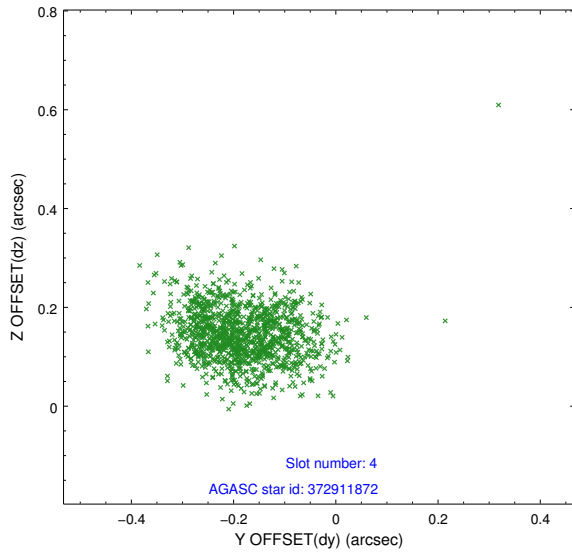
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	597	-0.010	-0.024	0.007	0.012	0.000000	0.000000	60.12	-1854.69
1	FID	ACIS-S-5	7.24	597	-0.041	-0.005	0.007	0.012	0.000000	0.000000	-1806.04	173.43
2	FID	ACIS-S-6	7.35	597	0.029	0.037	0.006	0.012	0.000000	0.000000	405.73	820.59
3	GUIDE	306316552	9.12	1193	0.010	-0.069	0.087	0.137	40.574339	37.287662	-361.66	-755.99
4	GUIDE	372911872	9.20	1193	-0.190	0.143	0.099	0.164	41.065047	38.149965	-2089.19	2177.41
5	GUIDE	306197392	9.34	1193	-0.053	-0.116	0.087	0.140	40.172312	37.075053	-411.24	-2137.39
6	GUIDE	306321248	9.66	1192	0.160	0.180	0.091	0.142	41.916344	37.279229	1869.20	2372.93
7	GUIDE	306318632	9.60	1192	0.071	-0.146	0.087	0.142	40.587379	36.855116	930.58	-1626.18

2.4 Star Slots

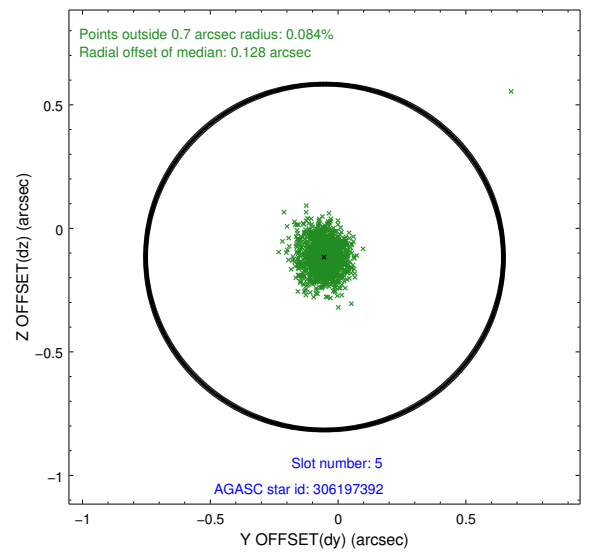
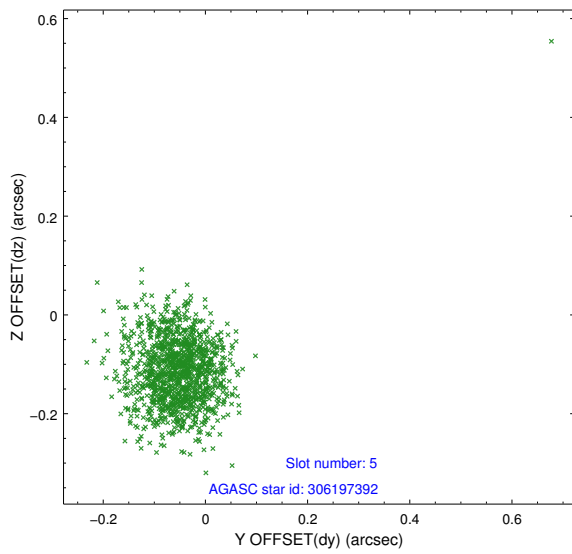
2.4.1 Slot 3



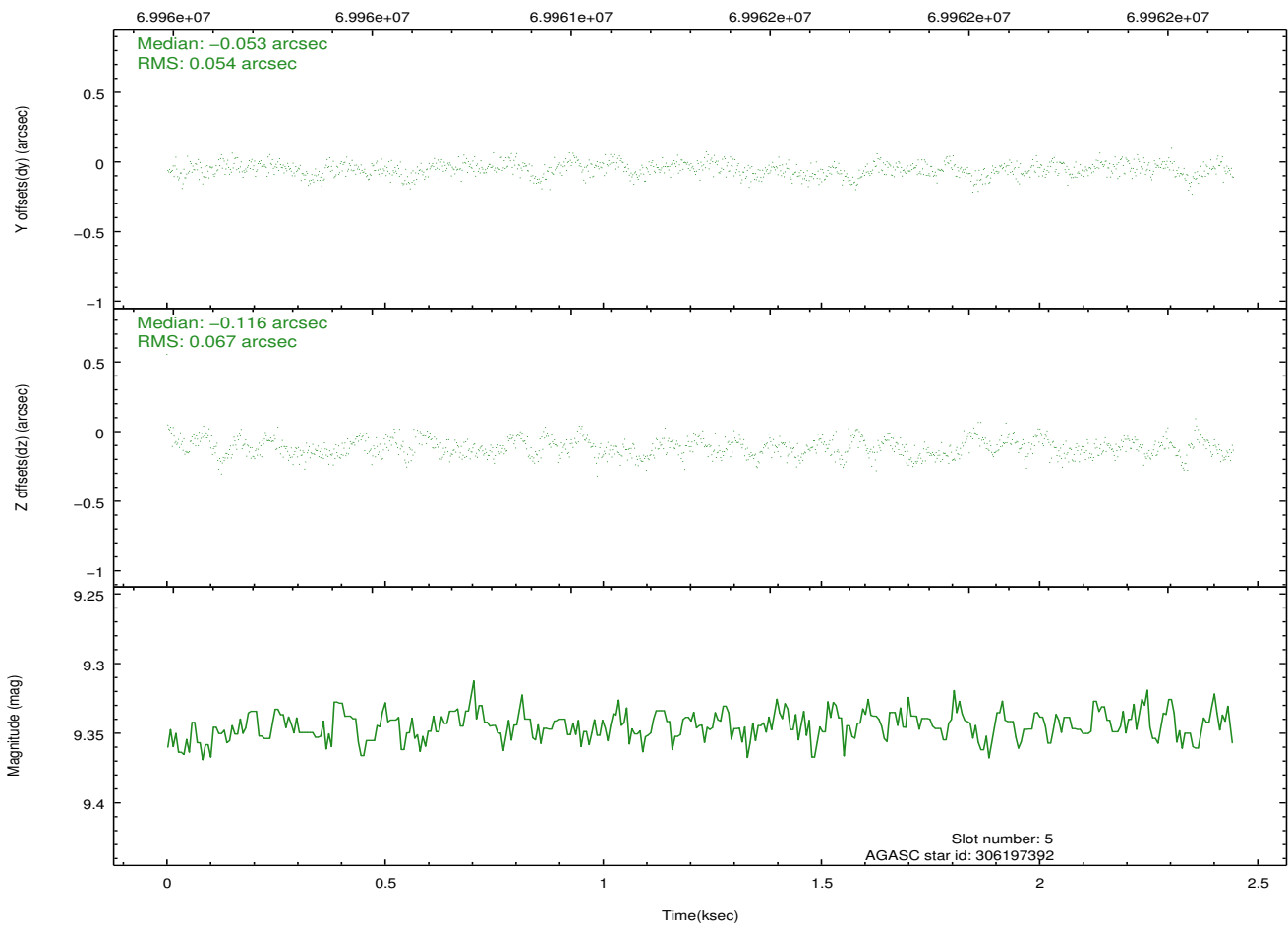
2.4.2 Slot 4



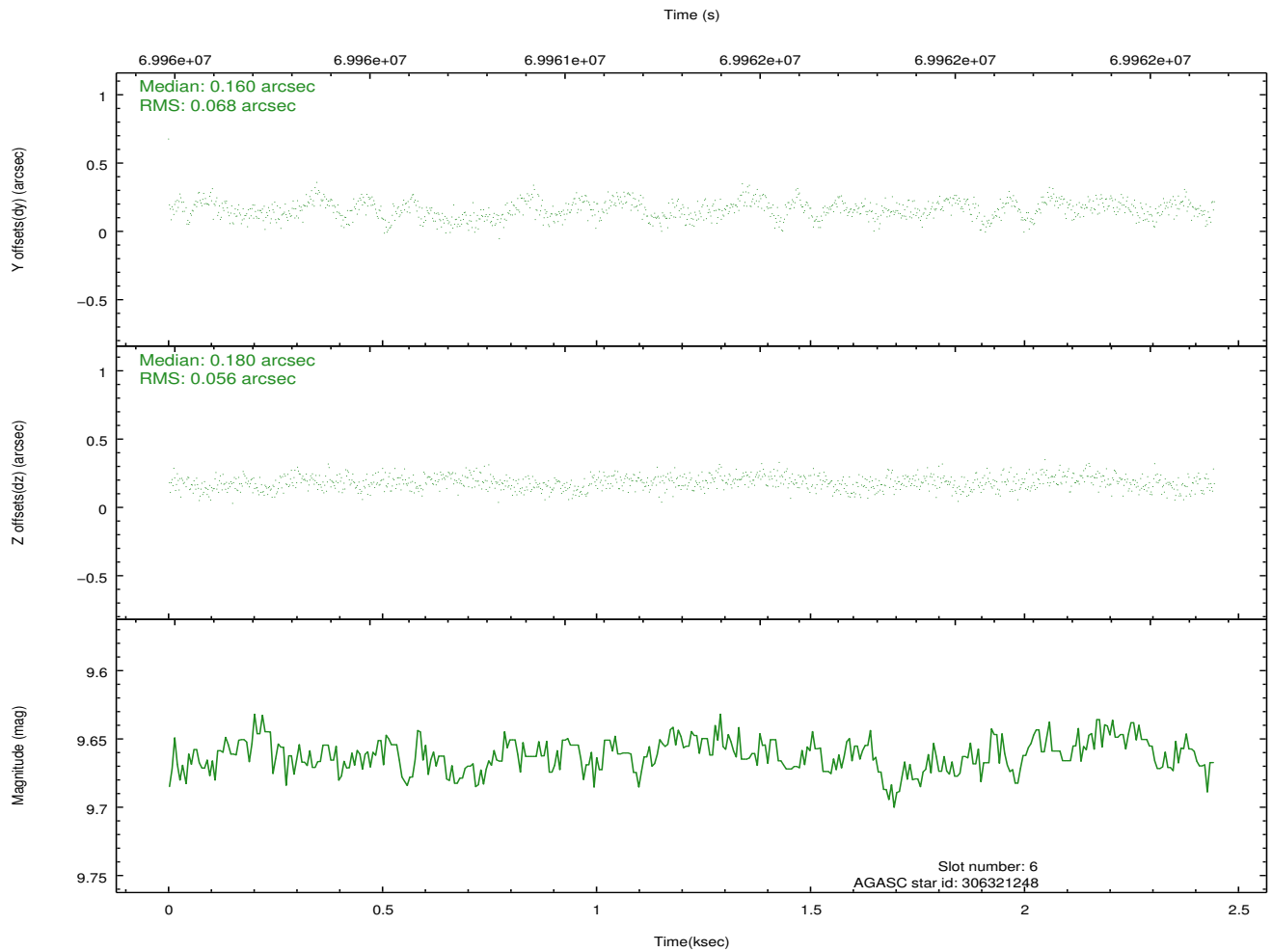
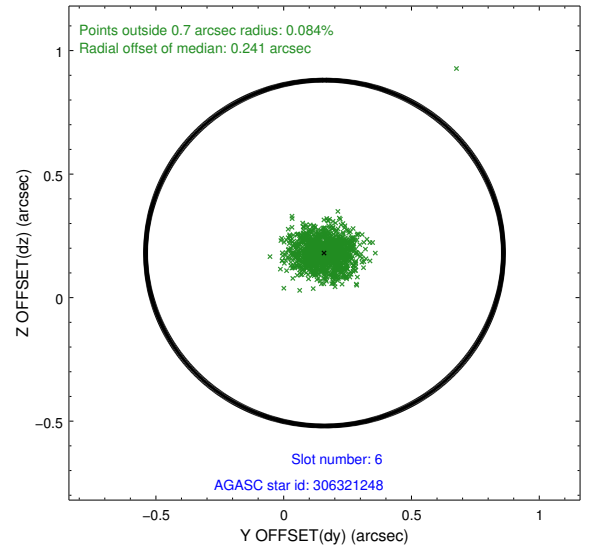
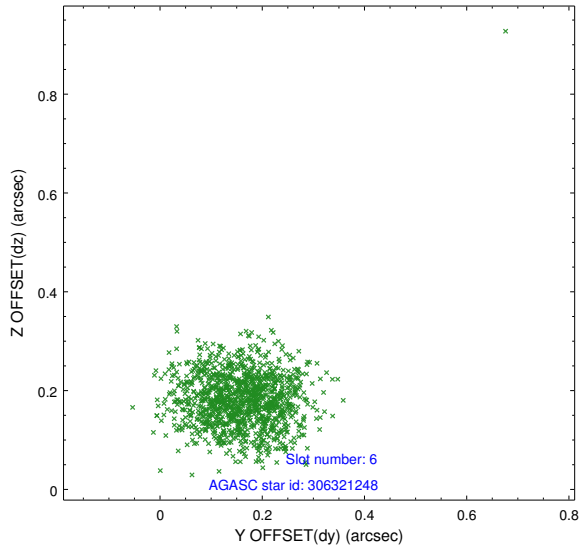
2.4.3 Slot 5



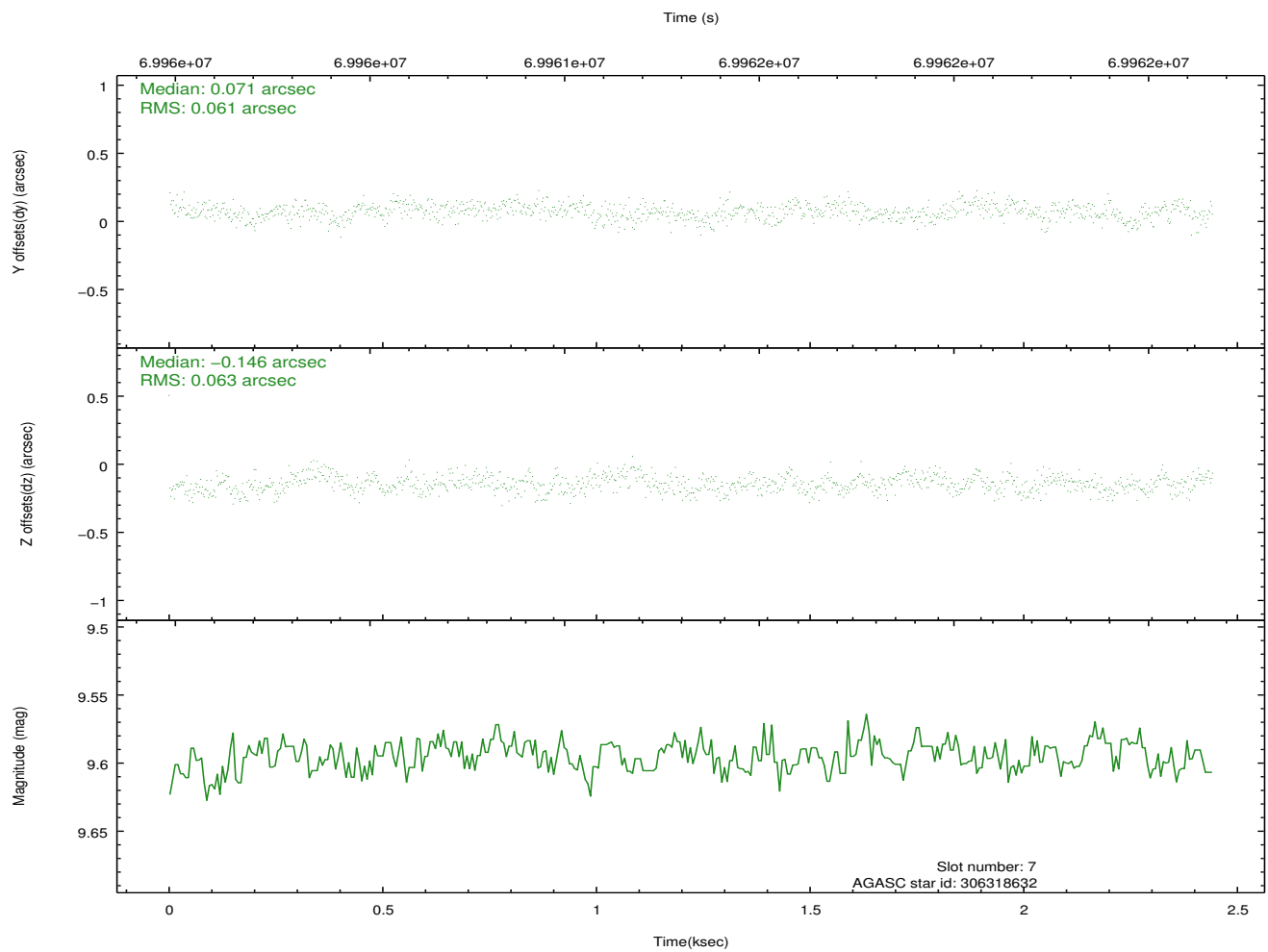
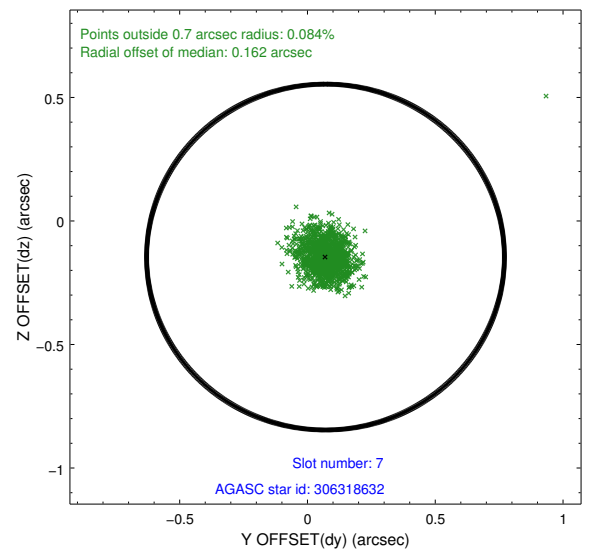
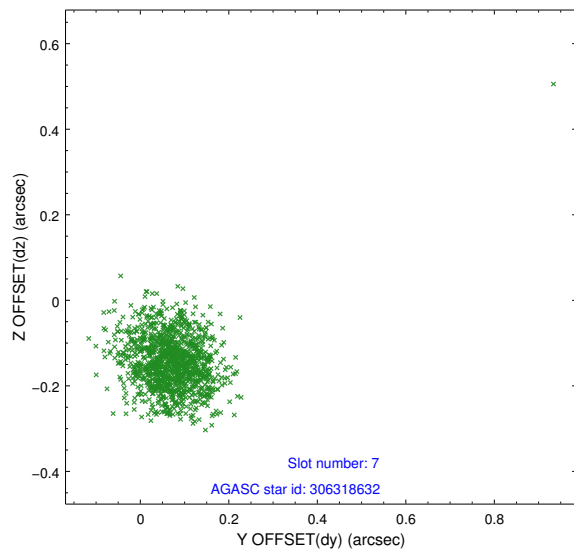
Time (s)



2.4.4 Slot 6

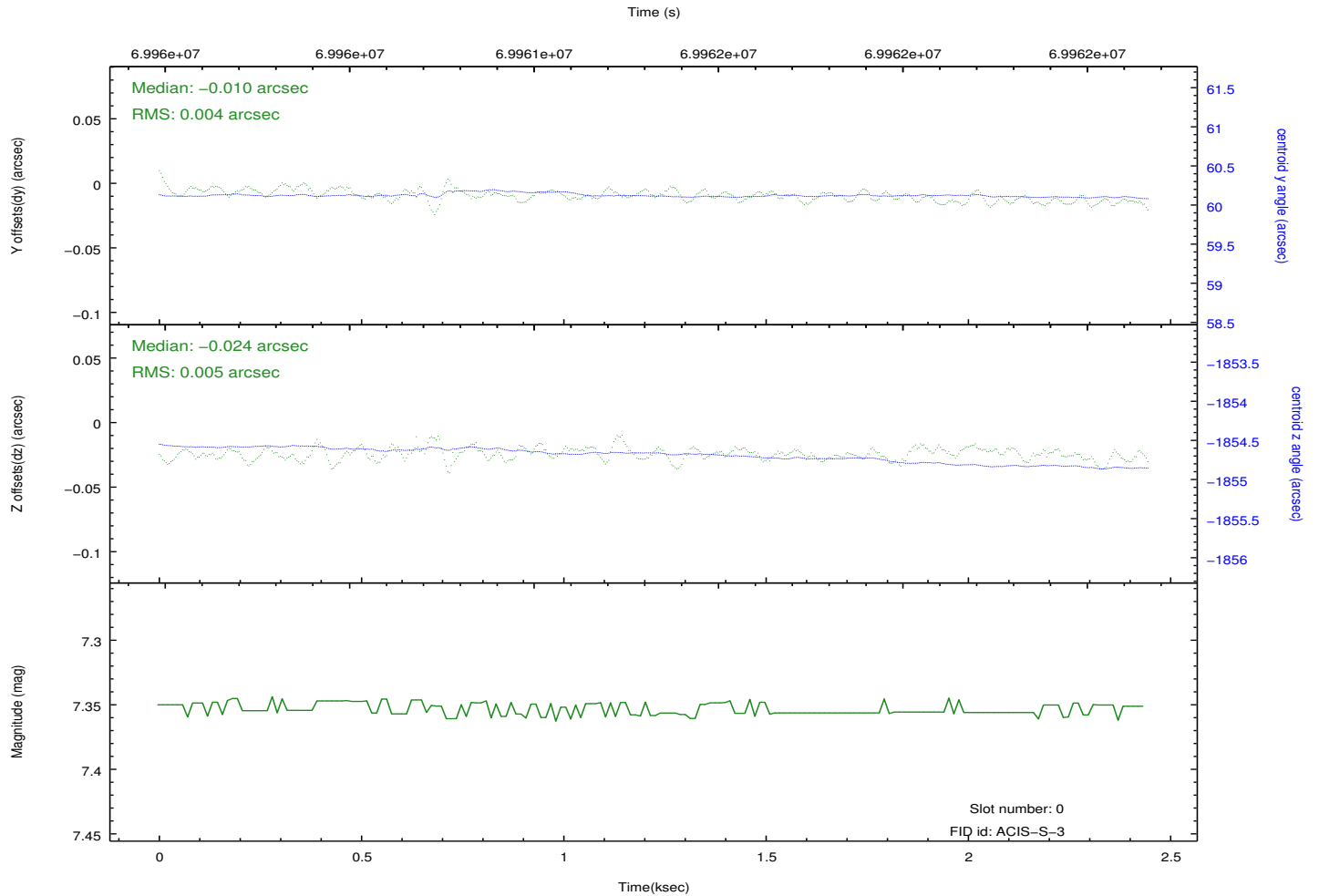
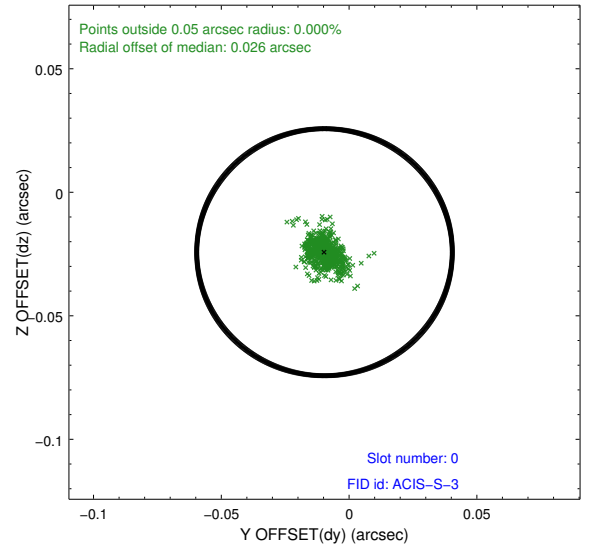
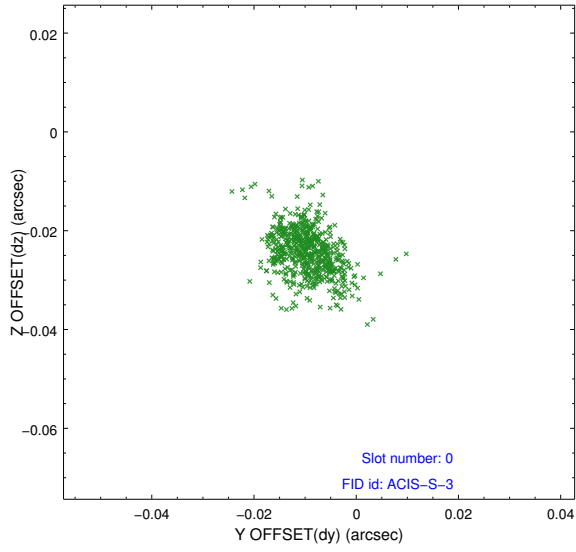


2.4.5 Slot 7

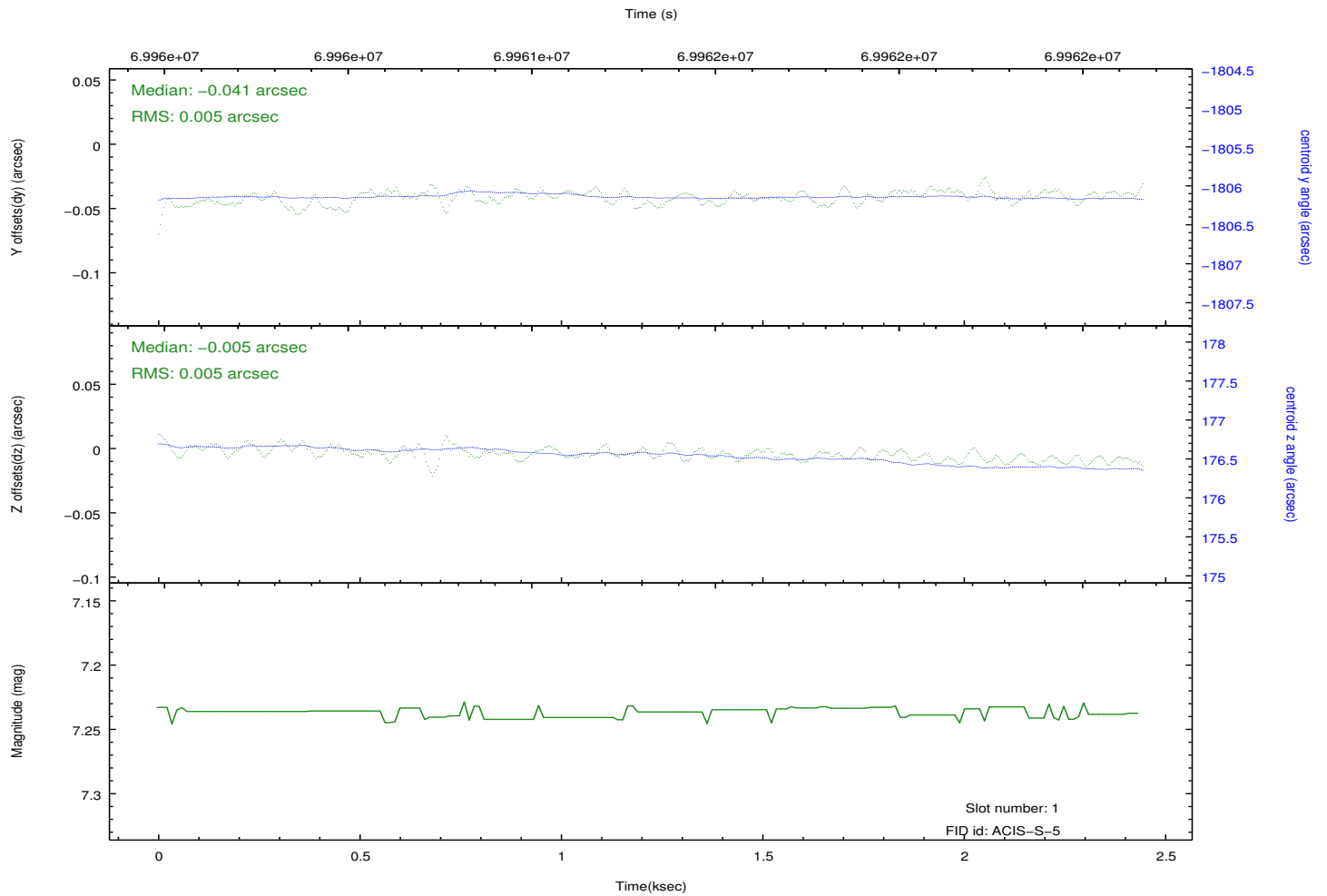
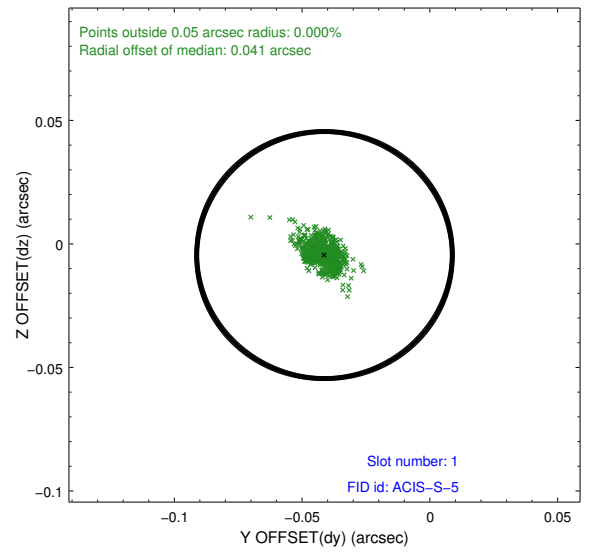
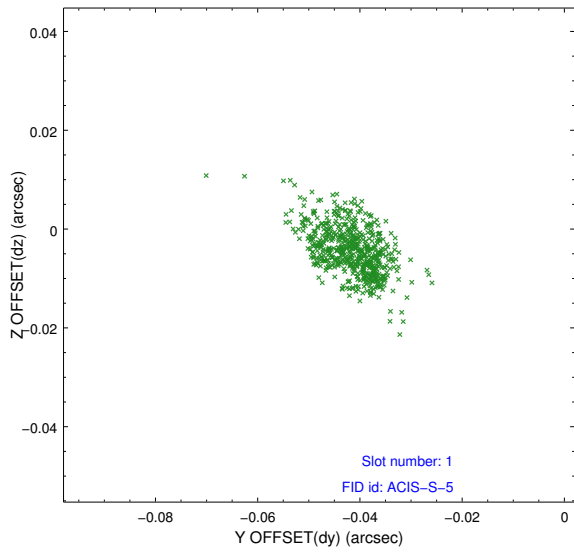


2.5 FID Slots

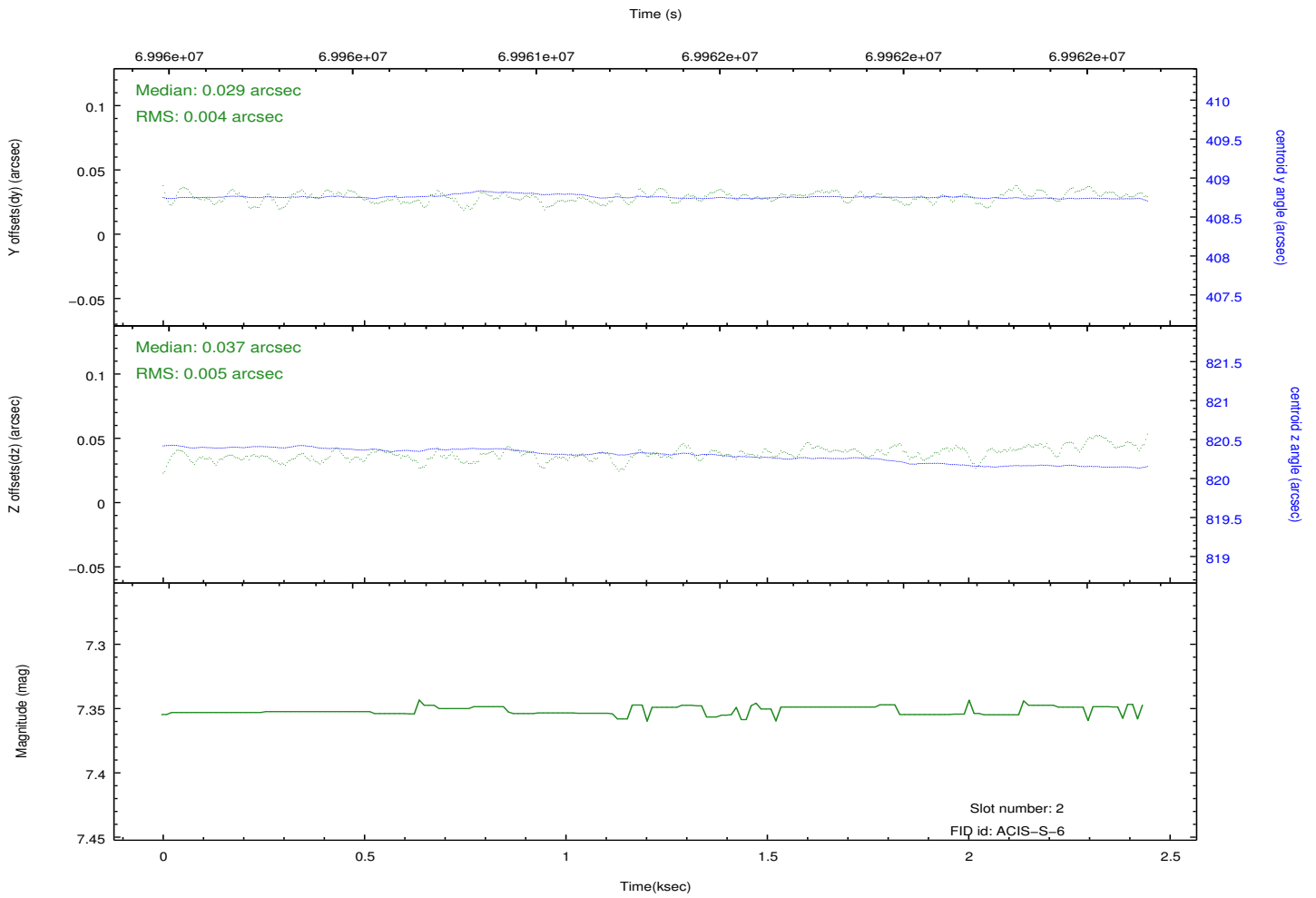
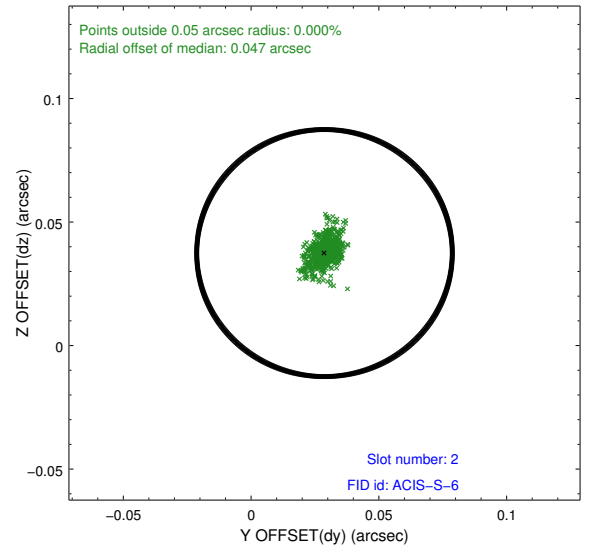
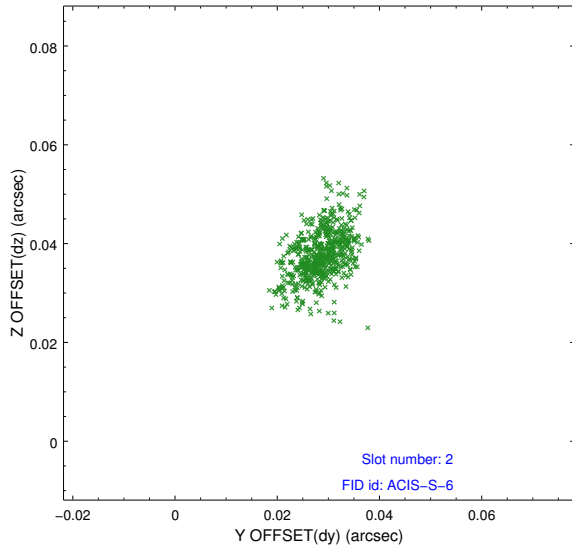
2.5.1 Slot 0



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)	2012.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.438

A.2 Comments