

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10976 - L2 Version 2
Chandra X-Ray Center

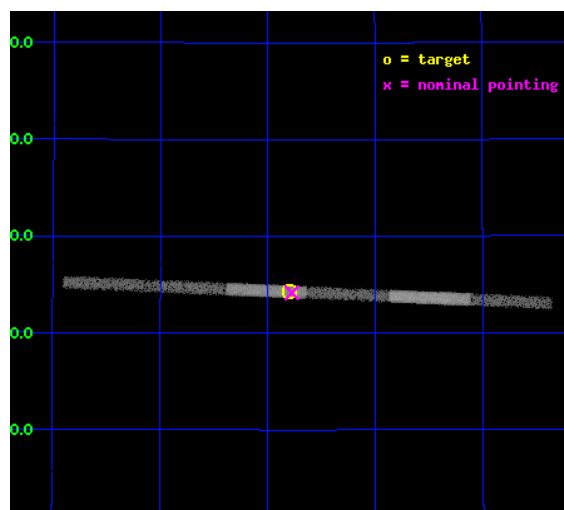
L2 Processing Date : Jun 14 2012

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

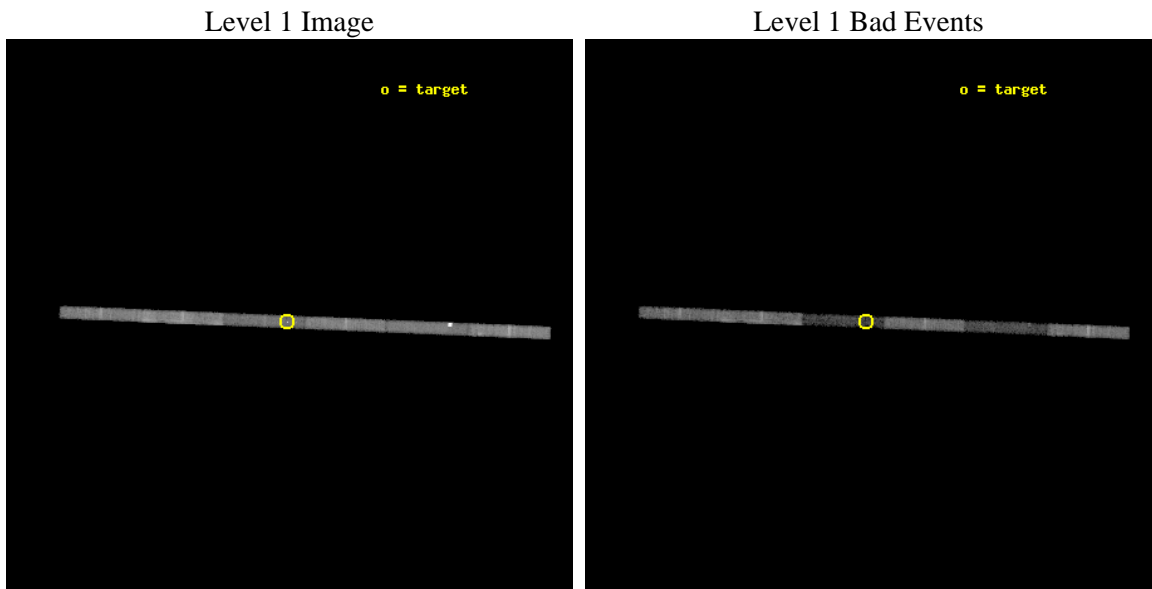
seq_num	200608	Sequence number
obs_id	10976	Observation id
title	Star-Planet Interaction in the upsilon Andromedae extrasolar planet system	Proposal title
observer	Dr. Katja Poppenhaeger	Principal investigator
object	HD 9826	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	24.199167	Observer's specified target RA [deg]
dec_targ	41.4055	Observer's specified target Dec [deg]
ra_nom	24.193855717216	Nominal RA [deg]
dec_nom	41.402770361581	Nominal Dec [deg]
roll_nom	182.36834305997	Nominal Roll [deg]
revision	2	Processing version of data
ontime	16064.299726367	Sum of GTIs [s]
livetime	15174.63268981	Livetime [s]
ontime4	16064.299726367	Sum of GTIs [s]
ontime5	16064.299726367	Sum of GTIs [s]
ontime6	16064.299726367	Sum of GTIs [s]
ontime7	16064.299726367	Sum of GTIs [s]
ontime8	16064.299726367	Sum of GTIs [s]
ontime9	16064.292331398	Sum of GTIs [s]
l2events	22379	Number of level 2 events



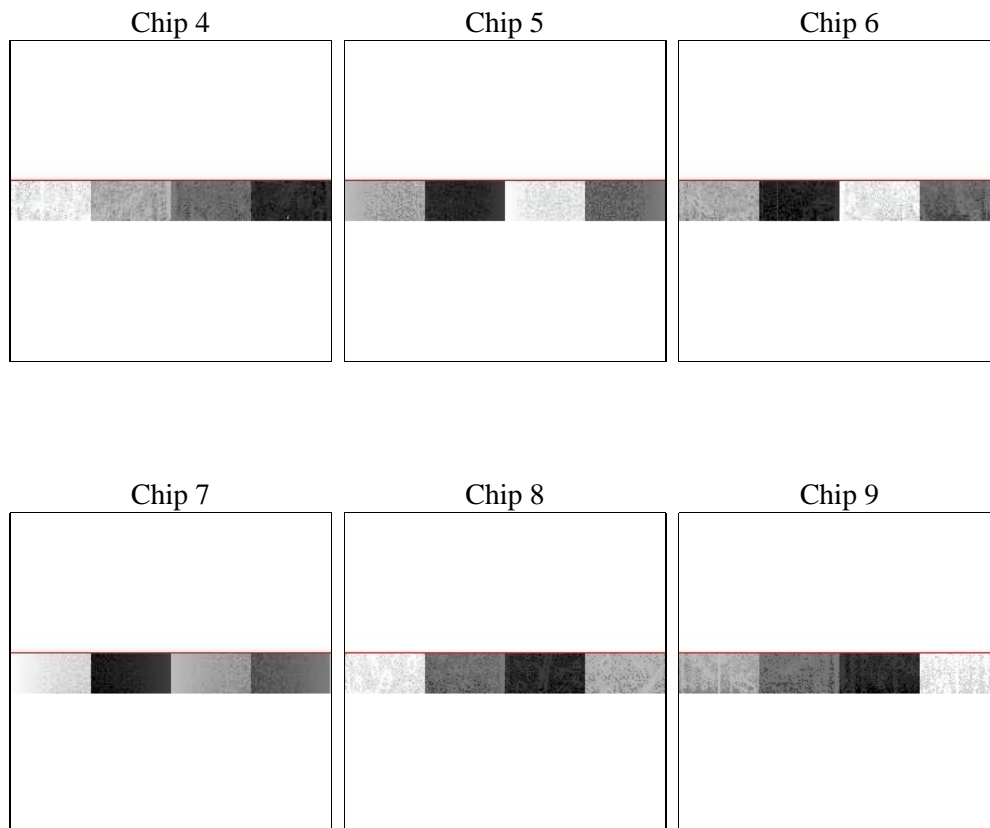
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	16064.299726367	Sum of GTIs [s]
caldsver	4.4.10	 	ontime4	16064.299726367	Sum of GTIs [s]
date	2012-06-15T01:06:59	Date and time of file creation	ontime5	16064.299726367	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	16064.299726367	Sum of GTIs [s]
			ontime7	16064.299726367	Sum of GTIs [s]
			ontime8	16064.299726367	Sum of GTIs [s]
			ontime9	16064.292331398	Sum of GTIs [s]
			l1events	143939	Number of level 1 events

2.1.4 Events

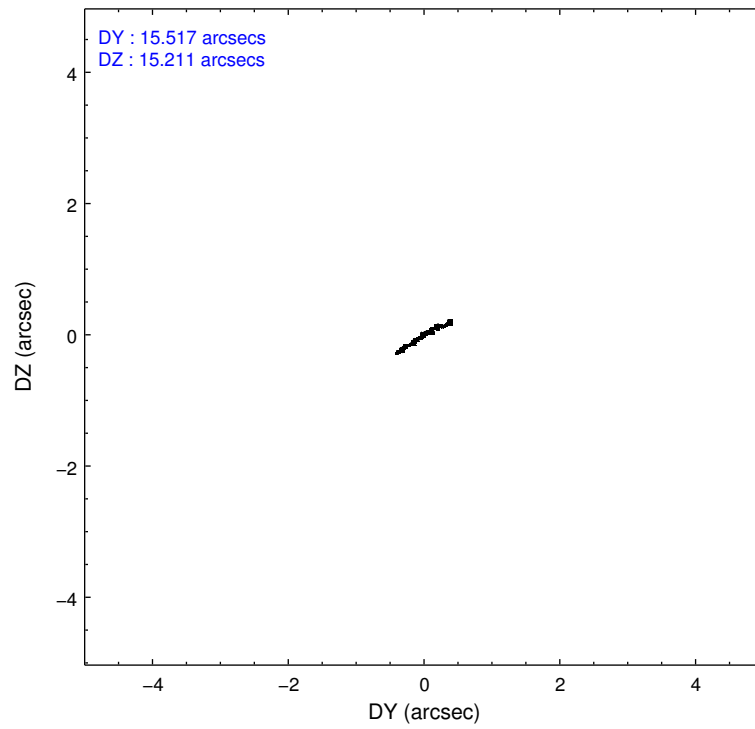
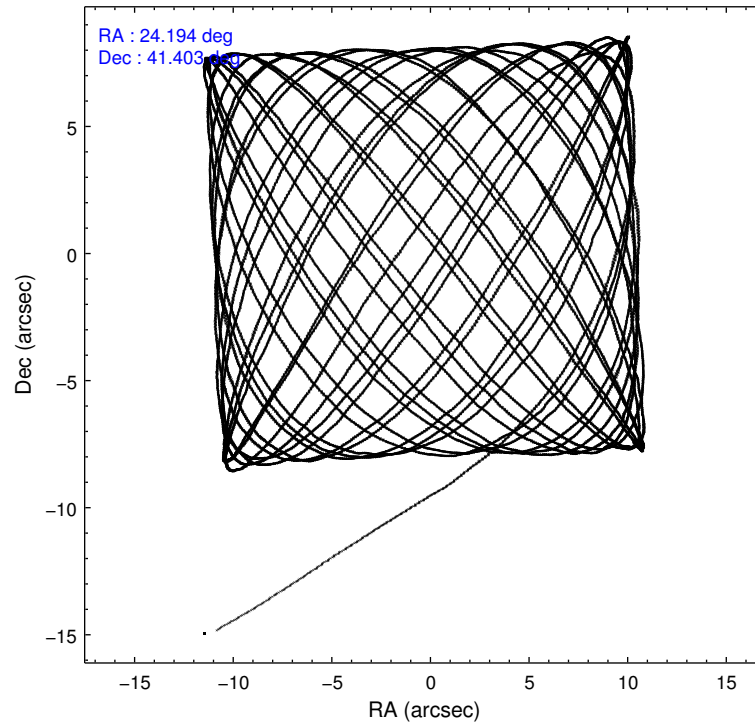
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	25410	37091	20591	12608	28642	19597
rejected events	22948	6420	18615	4795	22186	17663
rejected %	90%	17%	90%	38%	77%	90%

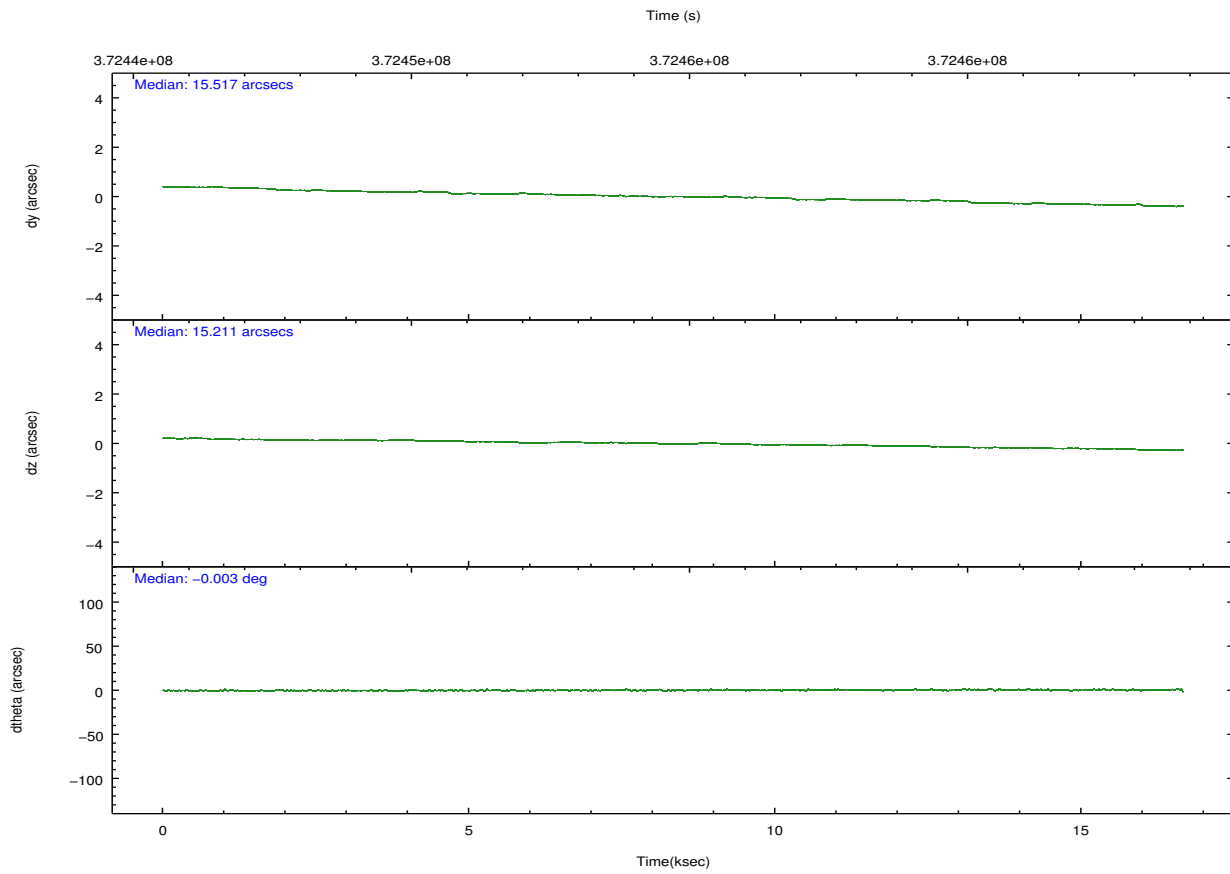
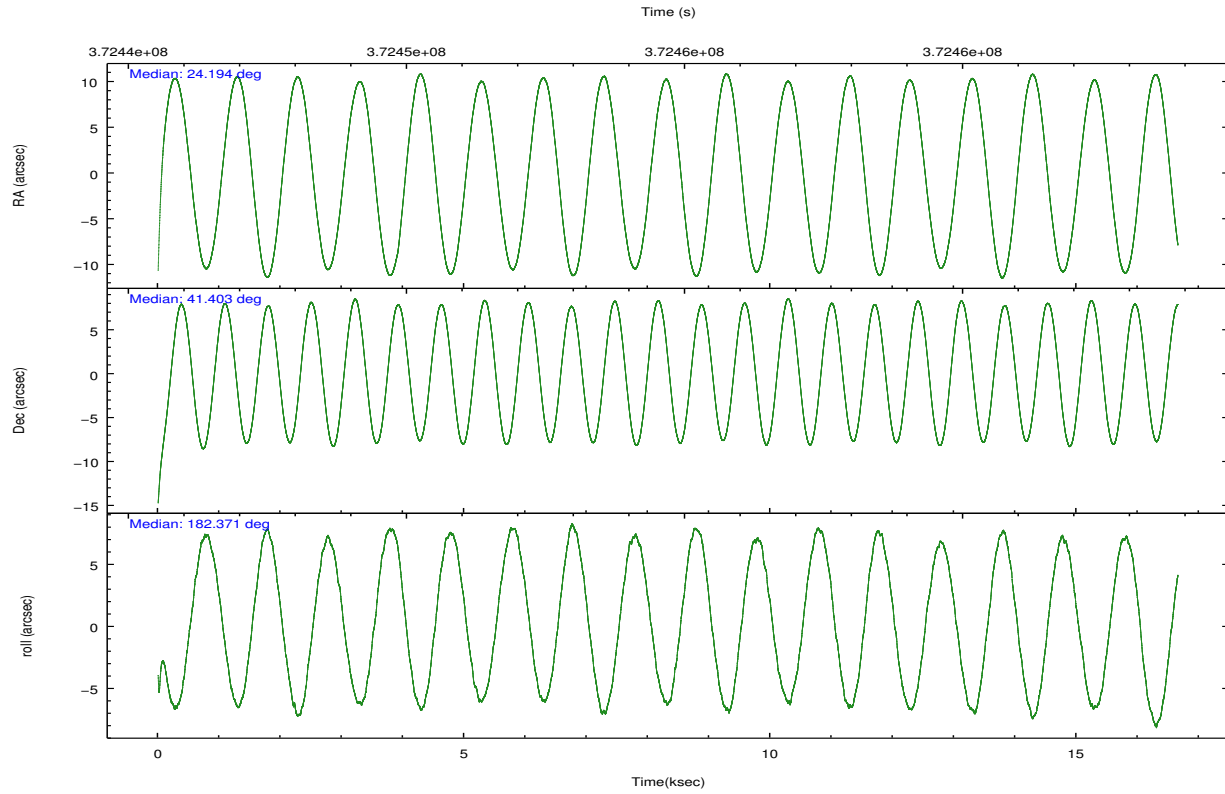
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	855	11364	577	1413	1427	611
	3%	30%	2%	11%	4%	3%
grade 1 events	28	145	4	29	8	3
	0%	0%	0%	0%	0%	0%
grade 2 events	476	13386	336	1899	1456	306
	1%	36%	1%	15%	5%	1%
grade 3 events	415	903	396	1054	718	395
	1%	2%	1%	8%	2%	2%
grade 4 events	412	1044	400	979	663	365
	1%	2%	1%	7%	2%	1%
grade 5 events	431	1436	332	1149	642	363
	1%	3%	1%	9%	2%	1%
grade 6 events	304	3976	267	2469	2193	257
	1%	10%	1%	19%	7%	1%
grade 7 events	22489	4837	18279	3616	21535	17297
	88%	13%	88%	28%	75%	88%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	24.224333	24.19385571721612	CCD I2 on	N	N
[deg] Pointing Dec	41.417729	41.40277036158118	CCD I3 on	N	N
[deg] Pointing Roll	182.191564	182.3683430599717	CCD S0 on	O2	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O4	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O3	Y
Phase constraints	Y	Y	CCD S5 on	O1	Y
[d] Phase period	2.308560	2.308560	Number of optional ACIS chips dropped	0	0
[d] Phase epoch (MJD)	55198.505000	55198.505000	On-chip summing requested	N	N
Phase start	0.962000	0.962000	Subarray requested	CUSTOM	1/8
Phase end	0.038000	0.038000	Subarray start row	449	449
Phase start error	0.163000	0.163000	Subarray row count	128	128
Phase end error	0.163000	0.163000	Alternating exposures requested	N	N
[s] Observation start time (MET)	372447036.184000	372445459.27163	[s] Primary exposure time	0.000000	0.7
Observation start date	2009-10-20T17:29:30	2009-10-20T17:04:19			
[s] Observation end time (MET)	372463036.184000	372464480.71009			
Observation end date	2009-10-20T21:56:10	2009-10-20T22:21:20			
Read mode	TIMED	TIMED			

2.3 Aspect



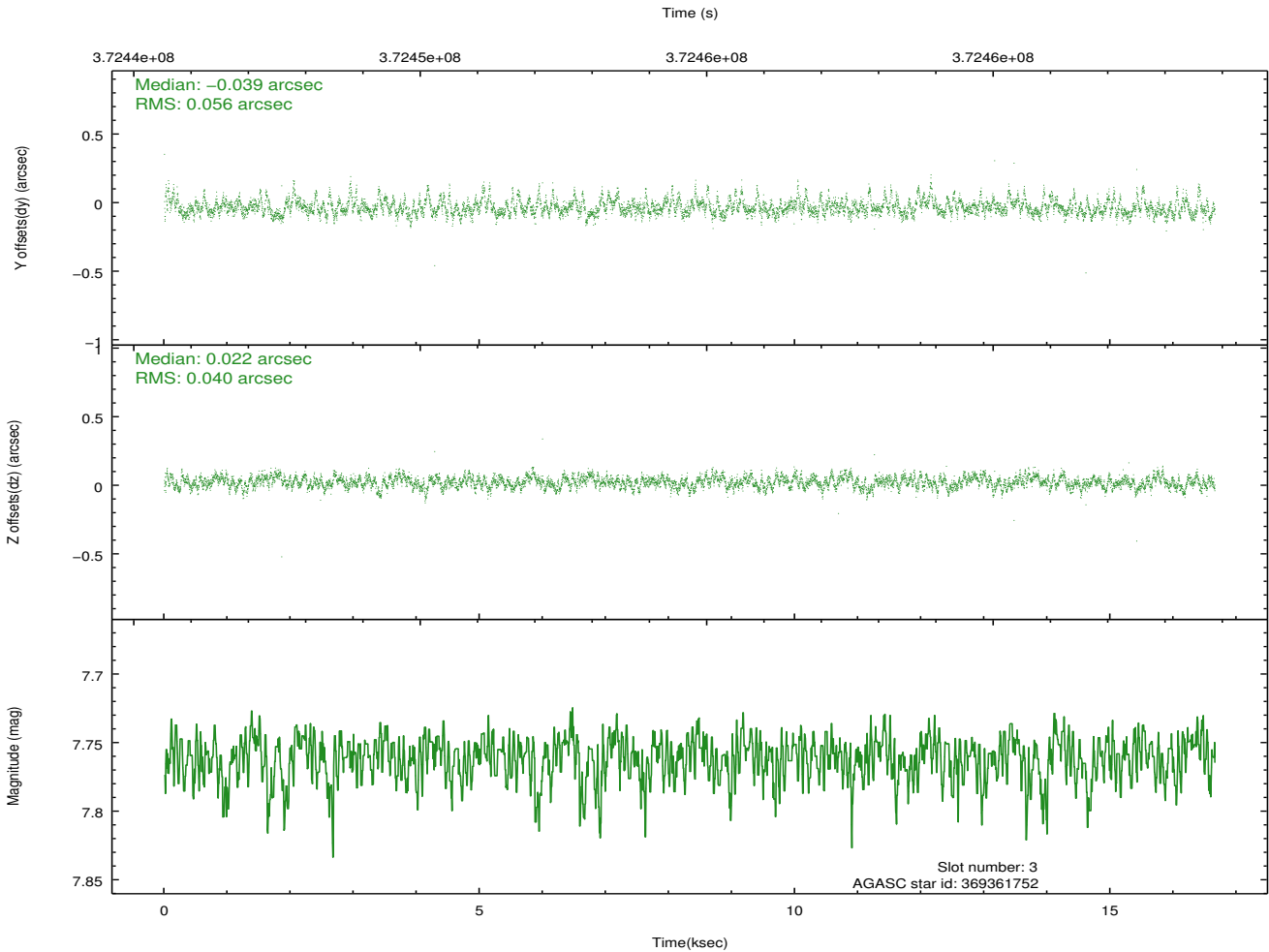
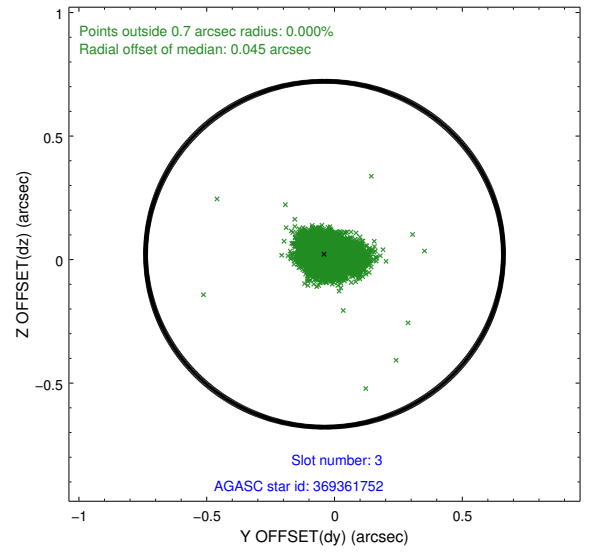
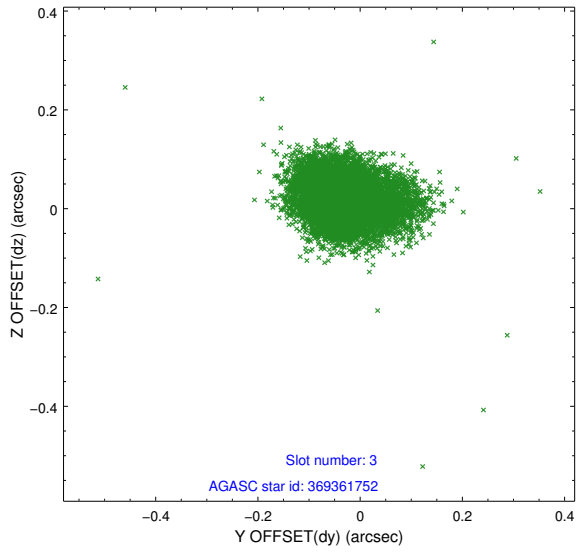


Slot Statistics

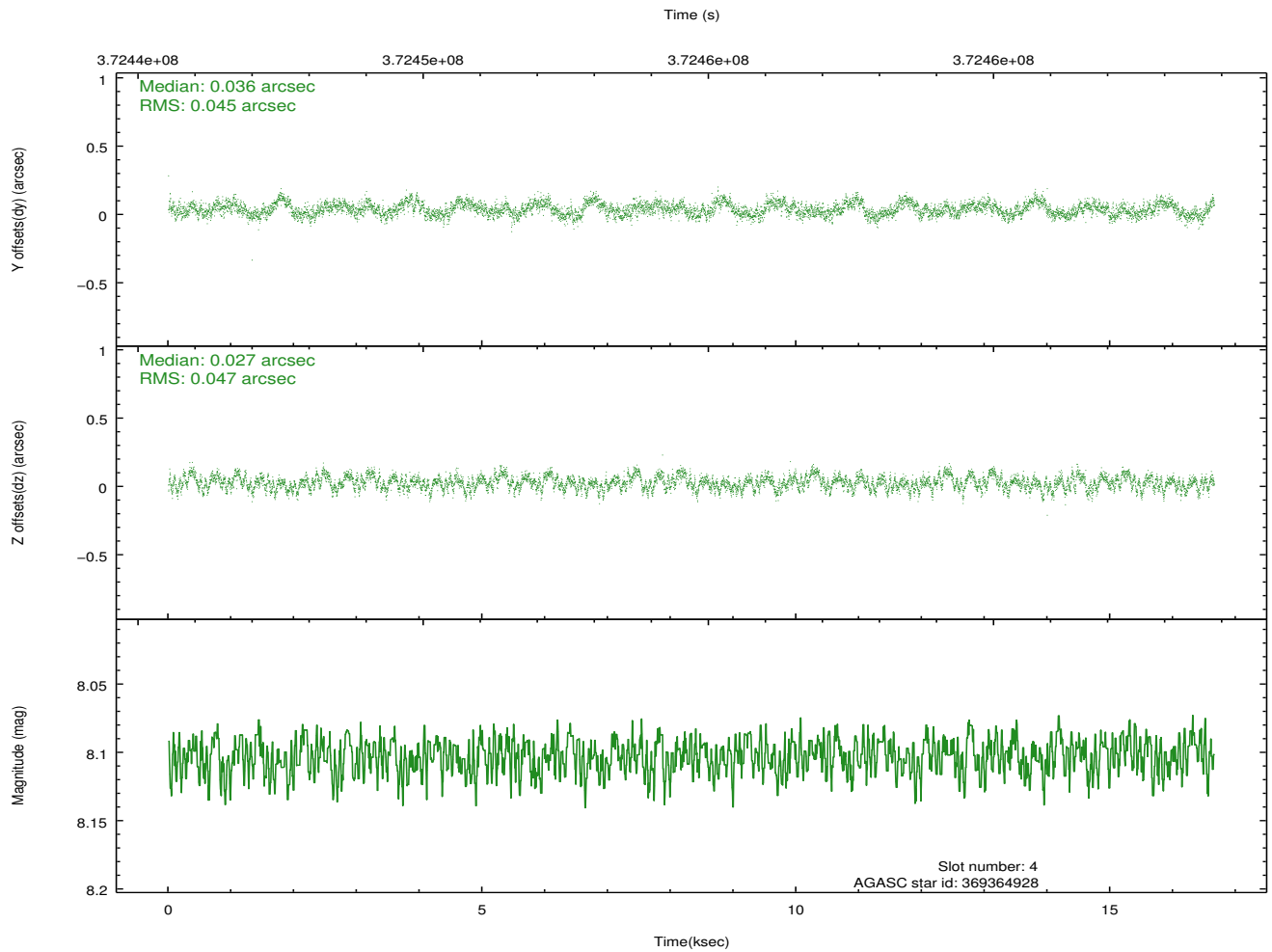
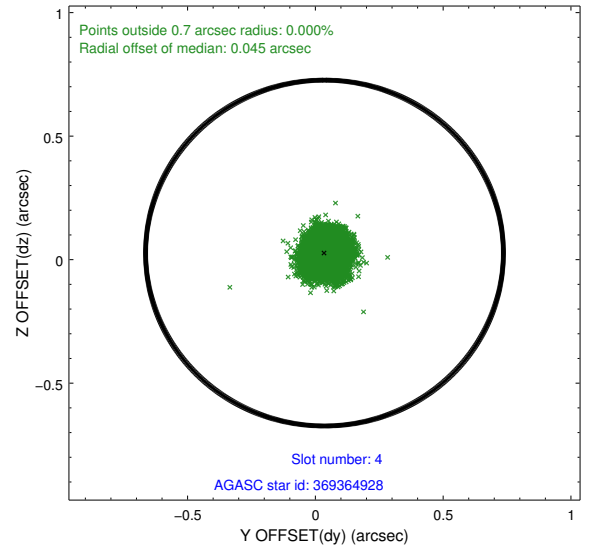
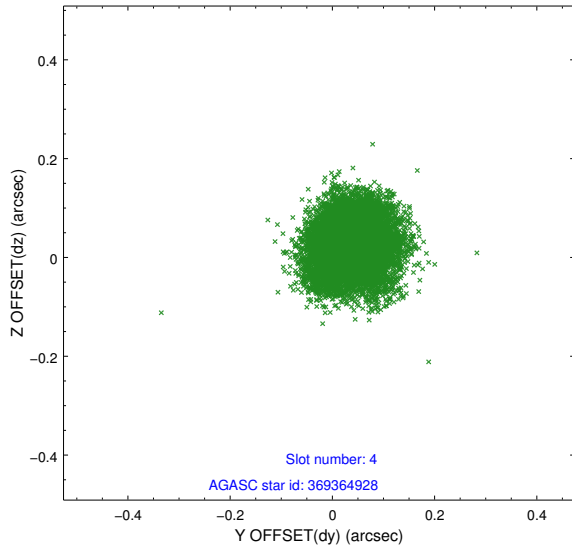
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.90	4062	-0.131	-0.087	0.007	0.016	0.000000	0.000000	-768.65	-1736.66
1	FID	ACIS-S-4	6.98	4063	0.145	0.069	0.009	0.015	0.000000	0.000000	2144.81	171.68
2	FID	ACIS-S-6	7.12	4062	-0.040	0.026	0.011	0.017	0.000000	0.000000	393.78	809.34
3	GUIDE	369361752	7.76	8126	-0.039	0.022	0.069	0.122	24.775291	41.161068	-1457.10	975.97
4	GUIDE	369364928	8.10	8123	0.036	0.027	0.071	0.110	24.519574	41.179125	-766.51	888.02
5	GUIDE	369365104	8.41	8052	0.108	-0.016	0.061	0.098	24.990275	41.245167	-2048.25	691.26
6	GUIDE	369366760	8.10	8126	-0.086	-0.020	0.064	0.105	23.401799	40.995064	2290.78	1424.64
7	GUIDE	369369280	7.68	8124	-0.031	-0.011	0.070	0.120	23.391178	40.901488	2336.22	1760.06

2.4 Star Slots

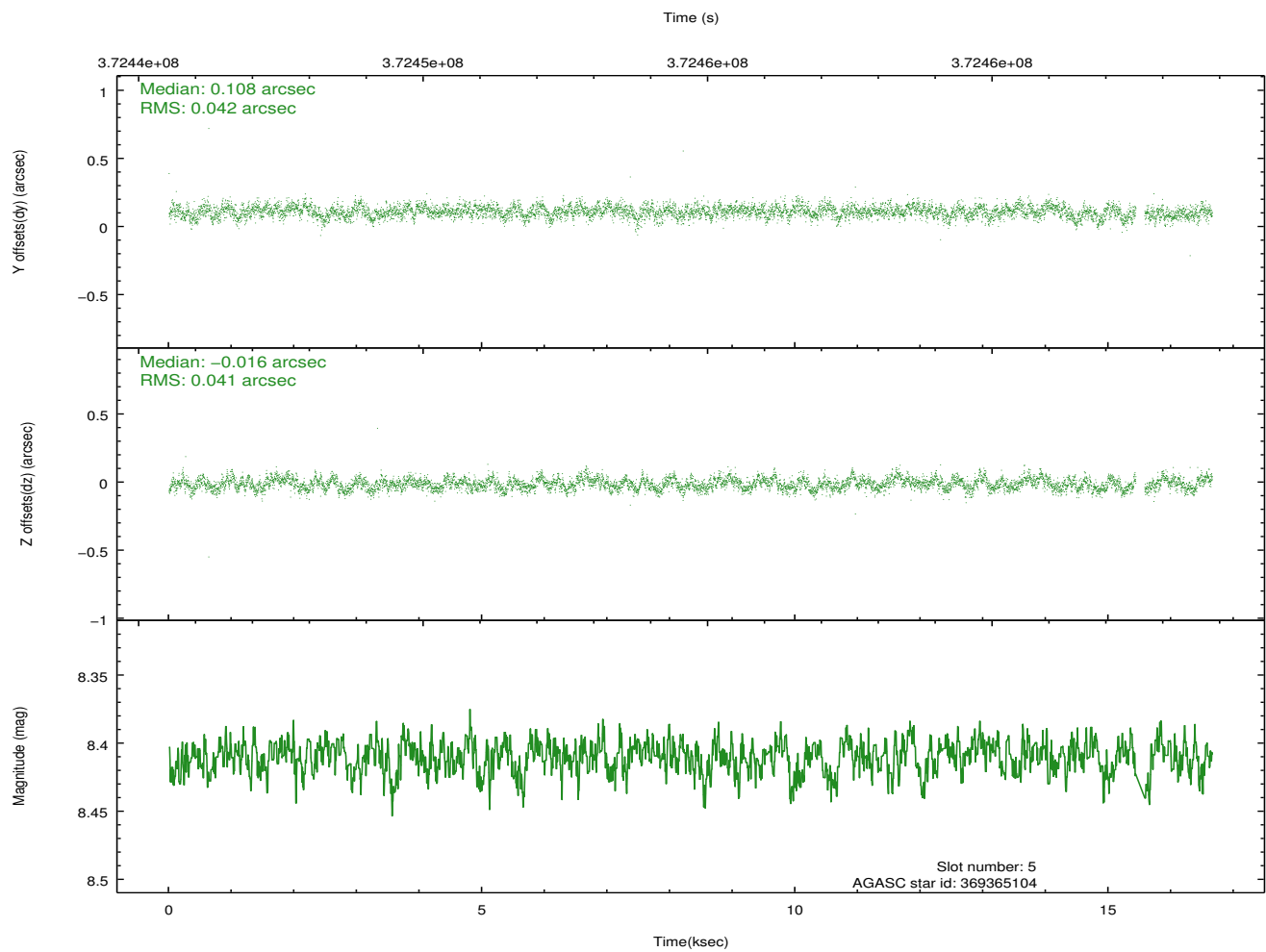
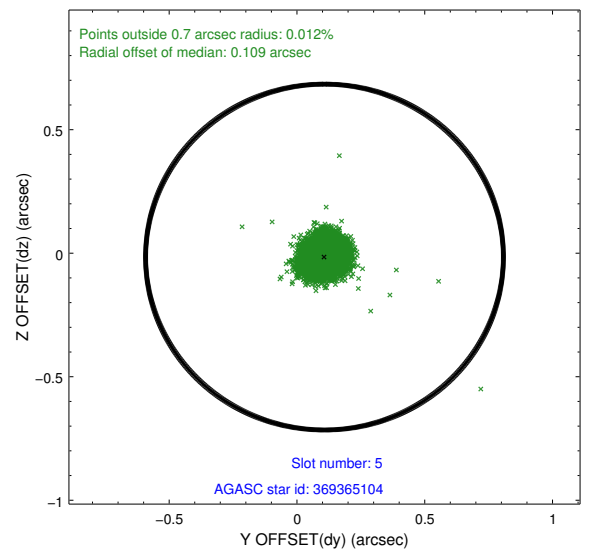
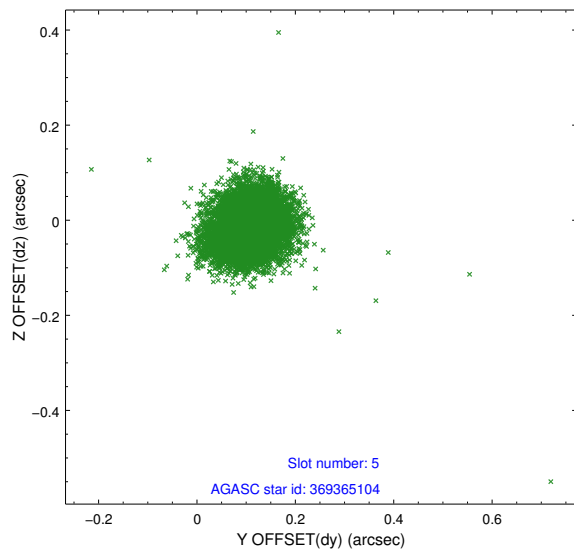
2.4.1 Slot 3



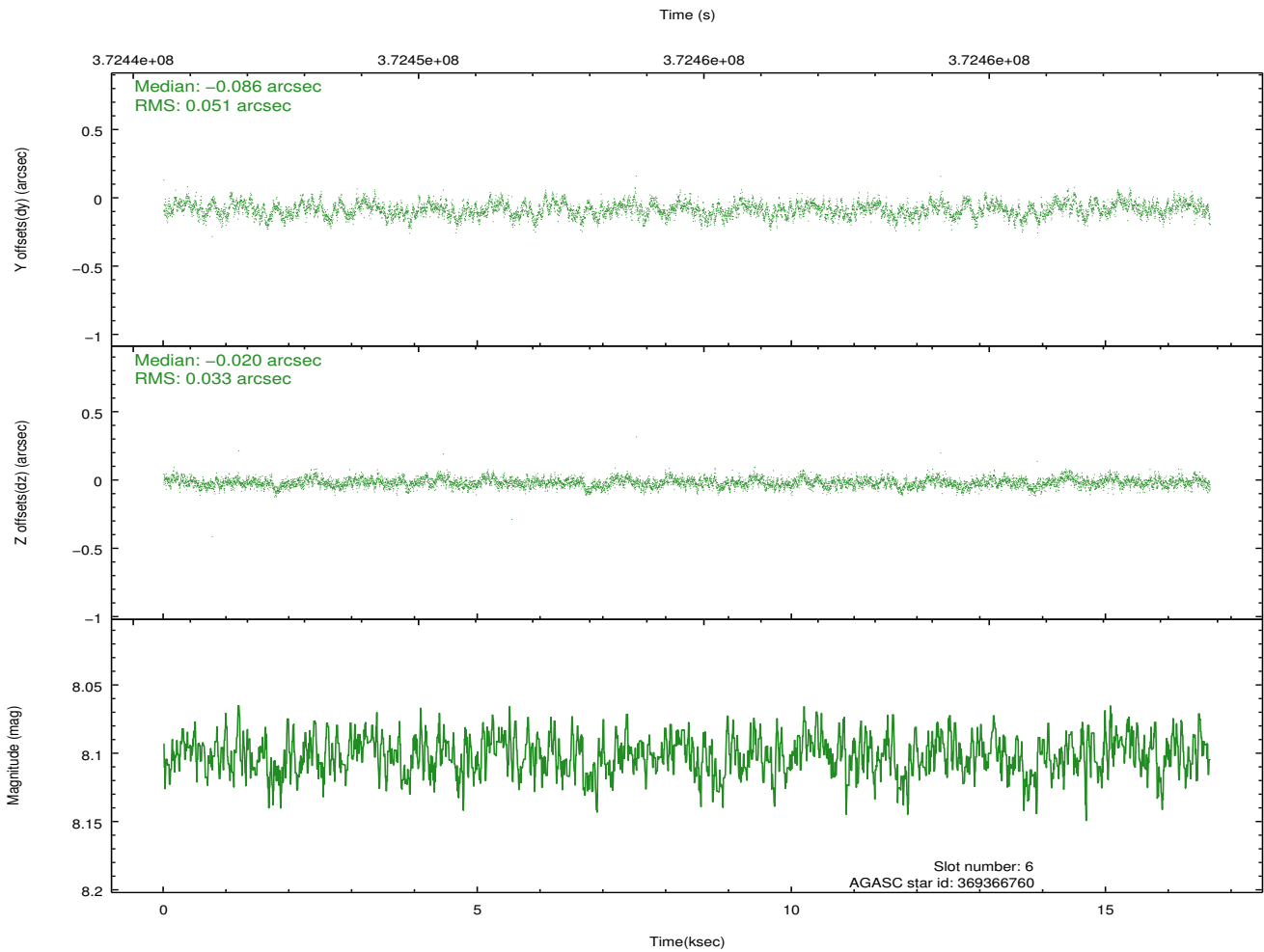
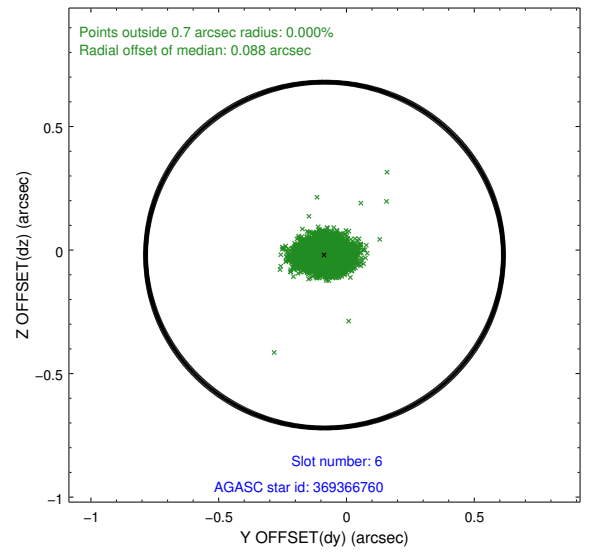
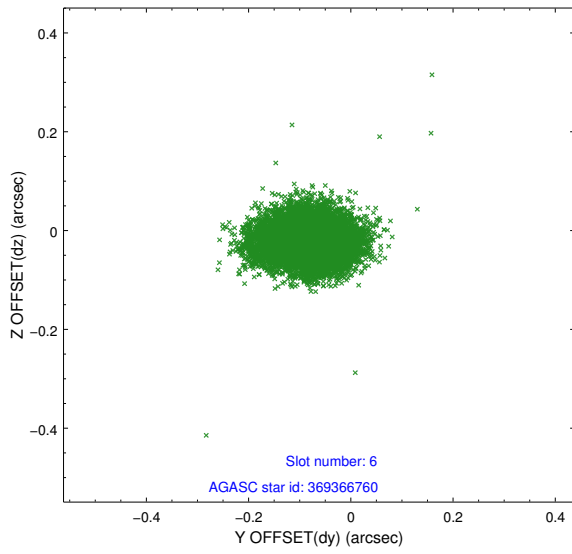
2.4.2 Slot 4



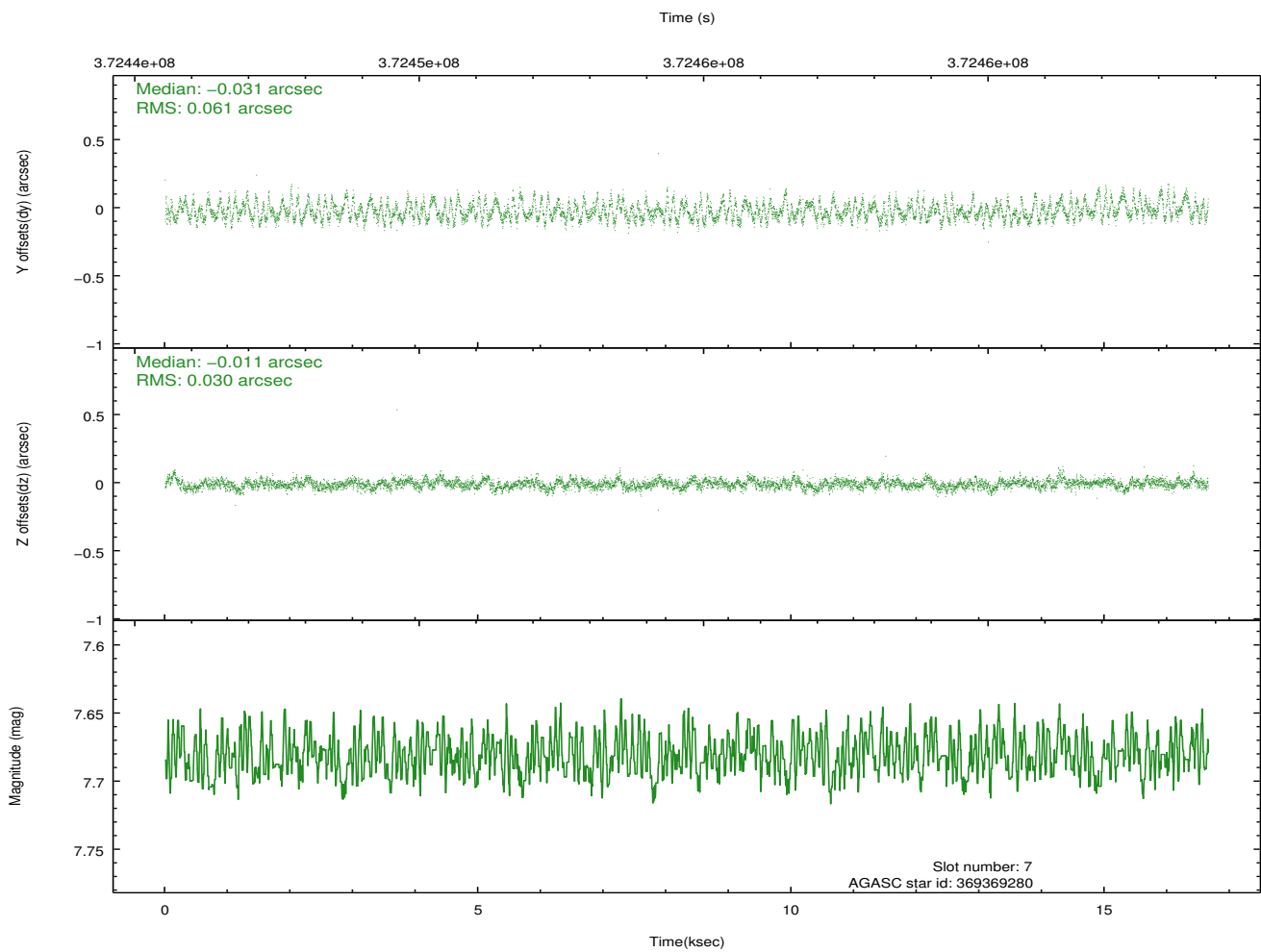
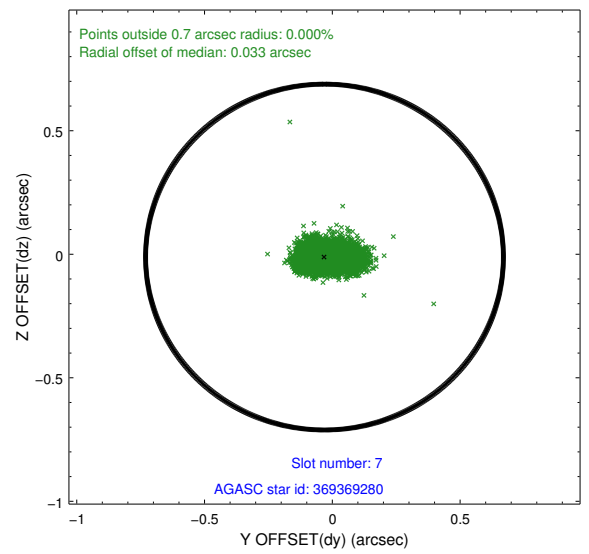
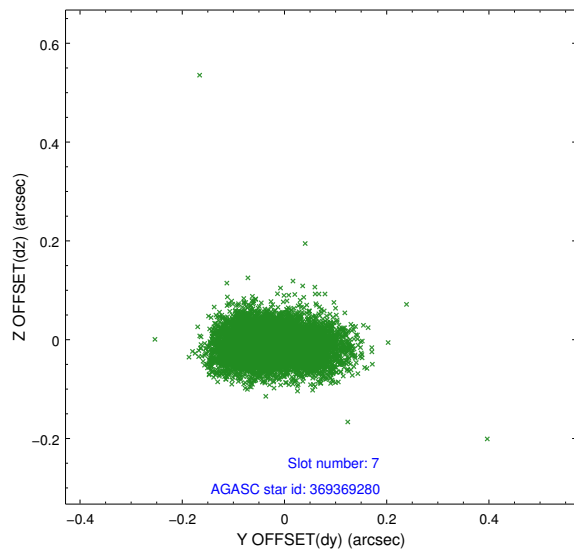
2.4.3 Slot 5



2.4.4 Slot 6

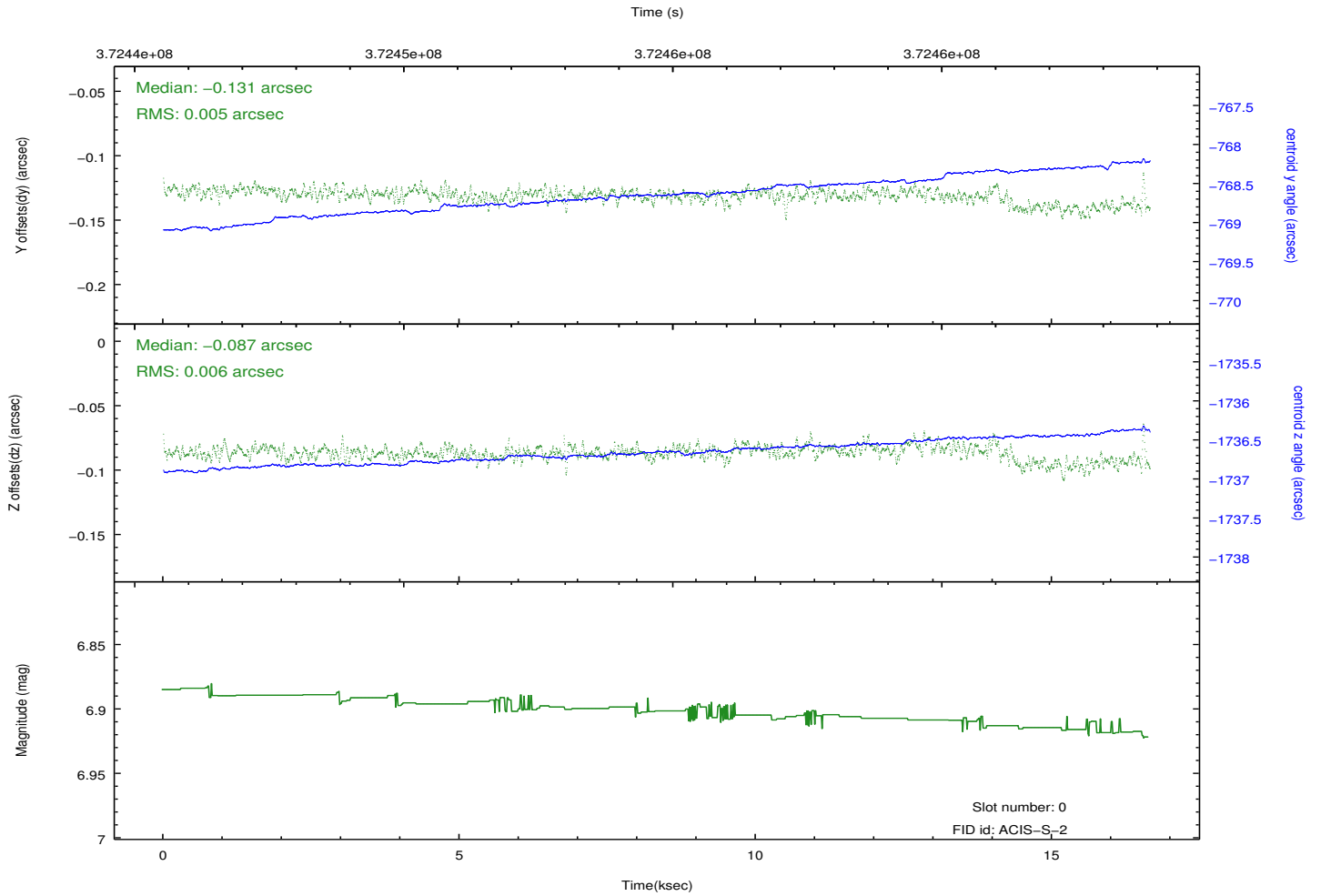
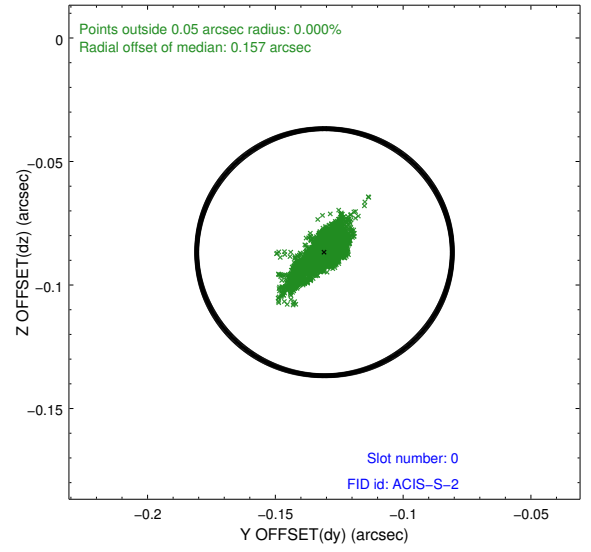
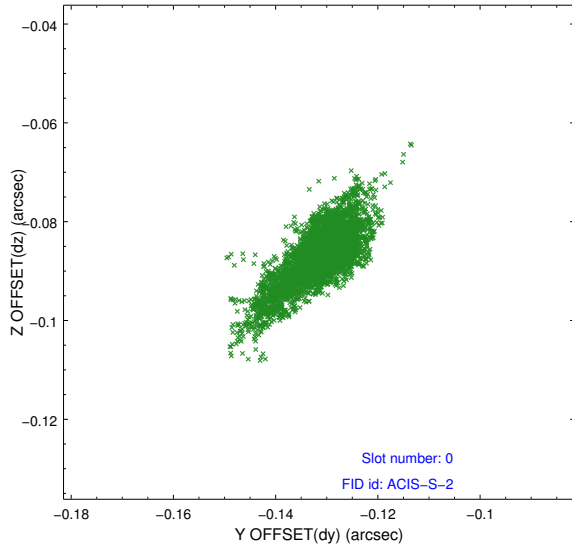


2.4.5 Slot 7

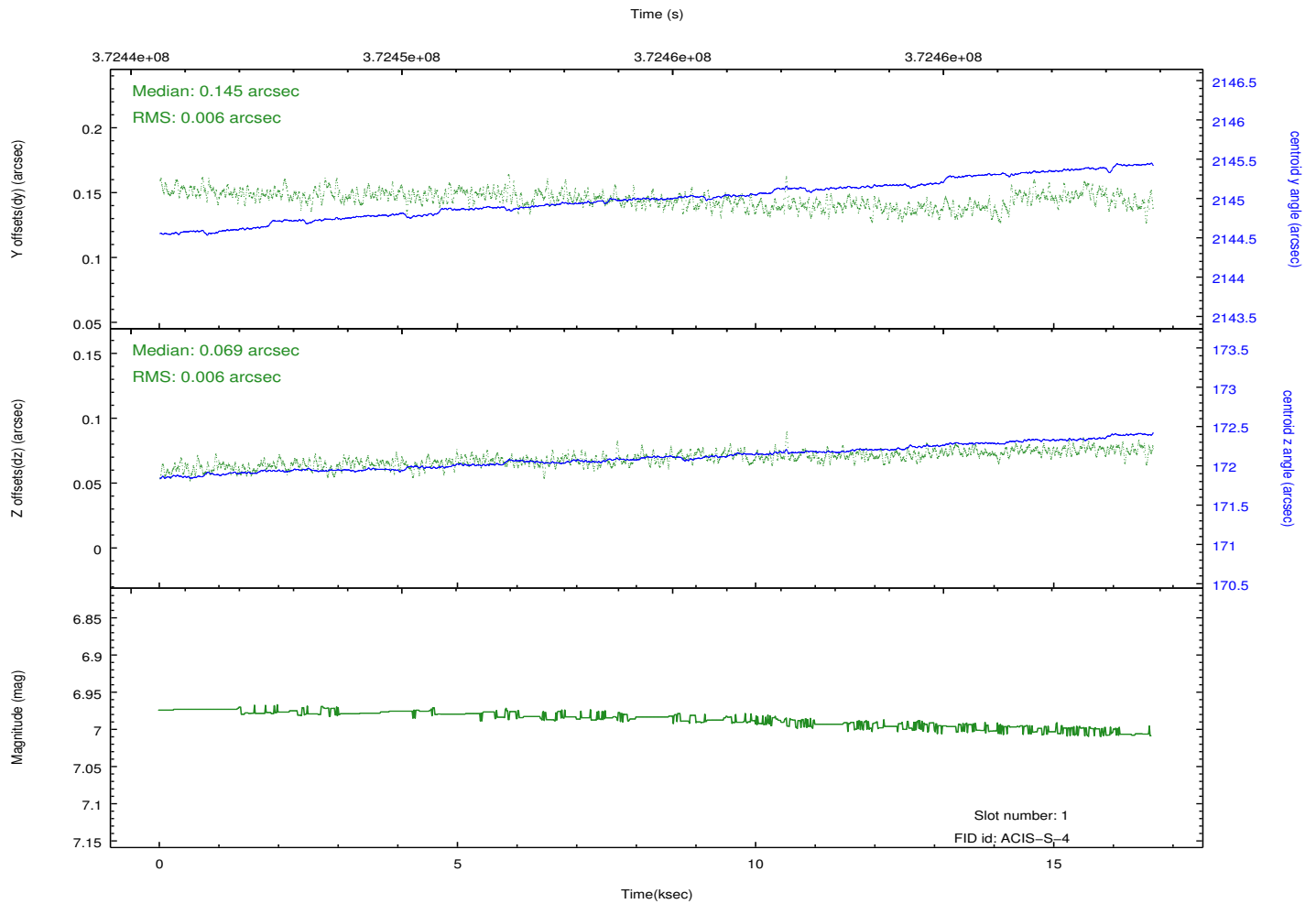
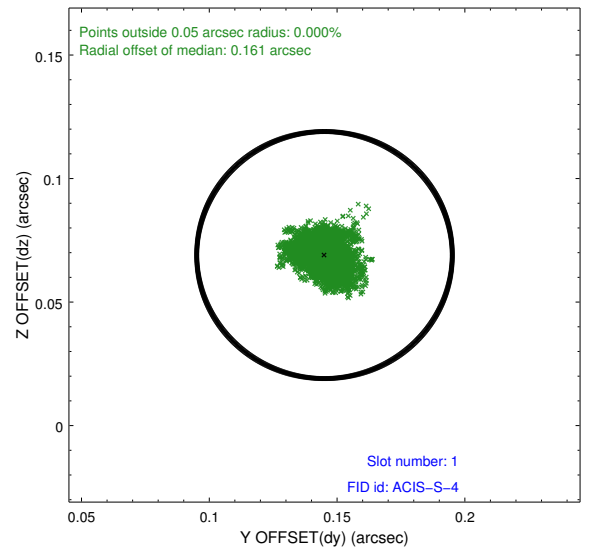
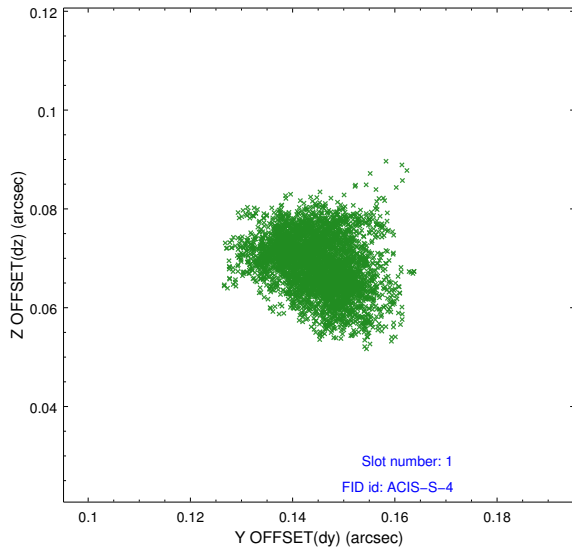


2.5 FID Slots

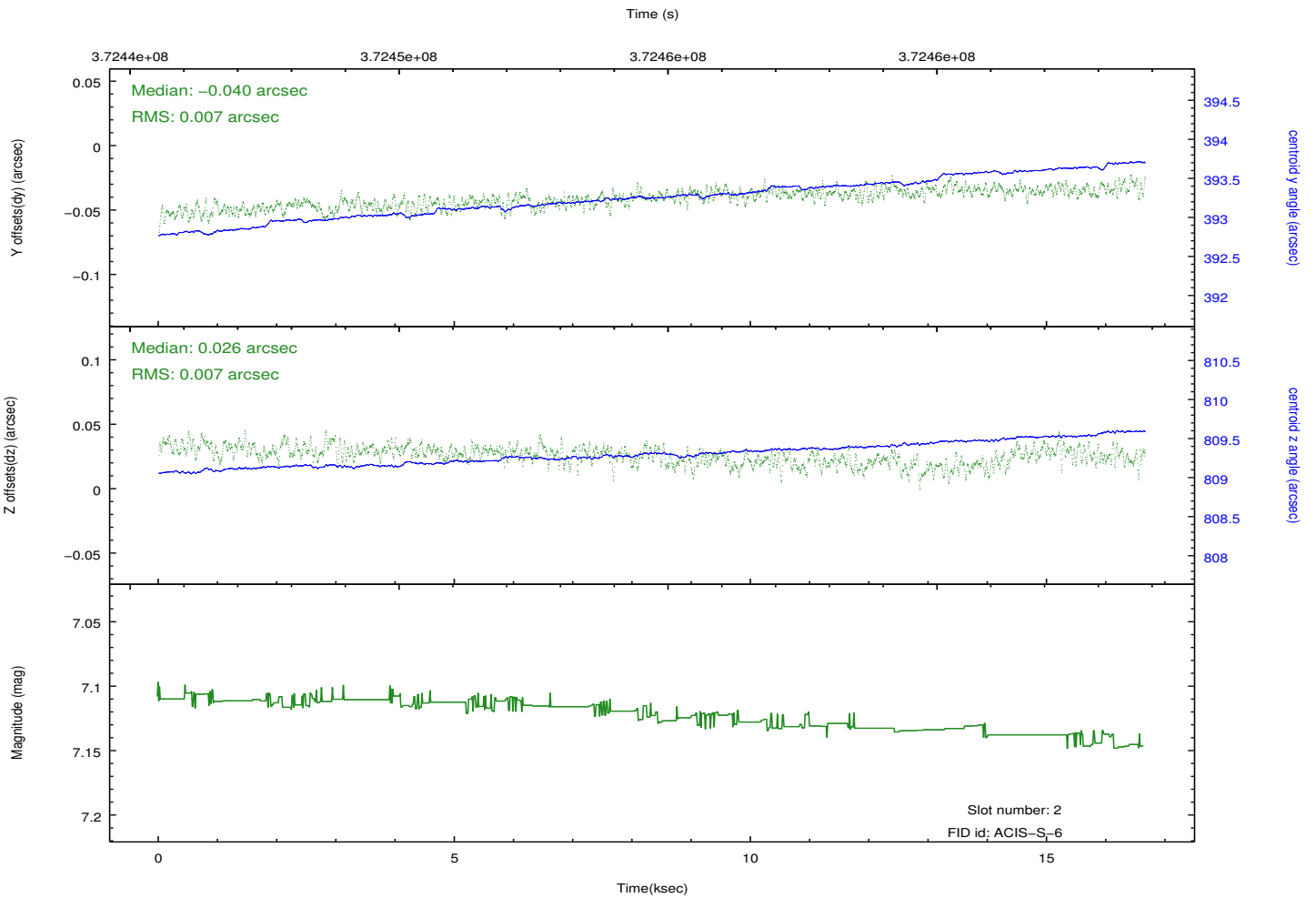
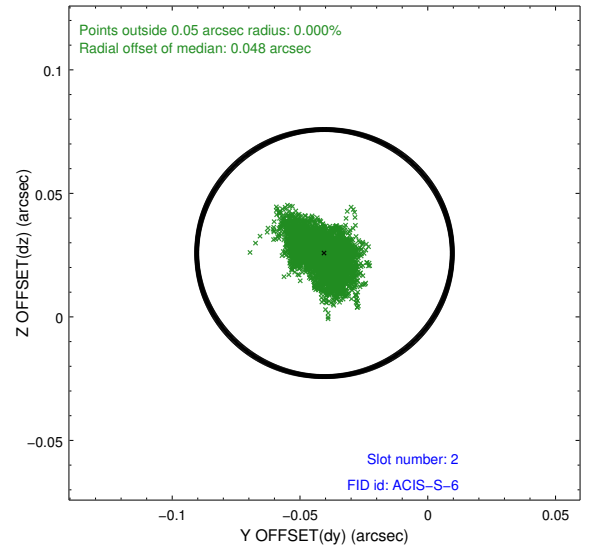
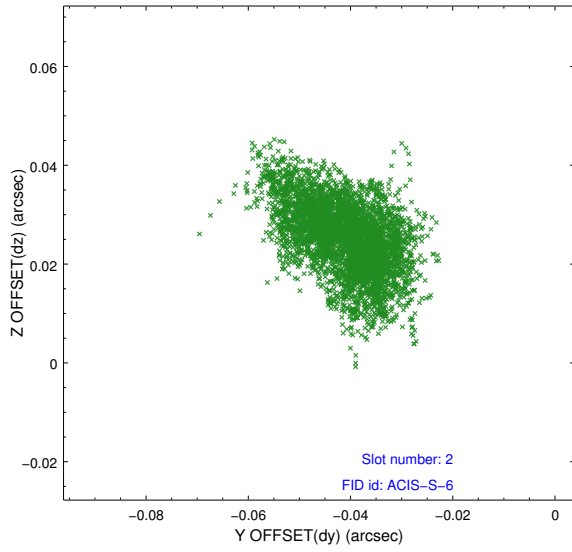
2.5.1 Slot 0



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)	2012.06.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.0649065

A.2 Comments