

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9370 - L2 Version 2
Chandra X-Ray Center

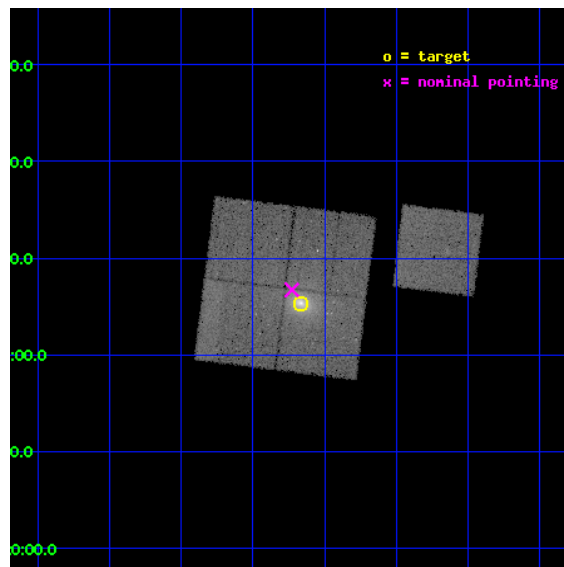
L2 Processing Date : Jun 3 2012

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1 Front

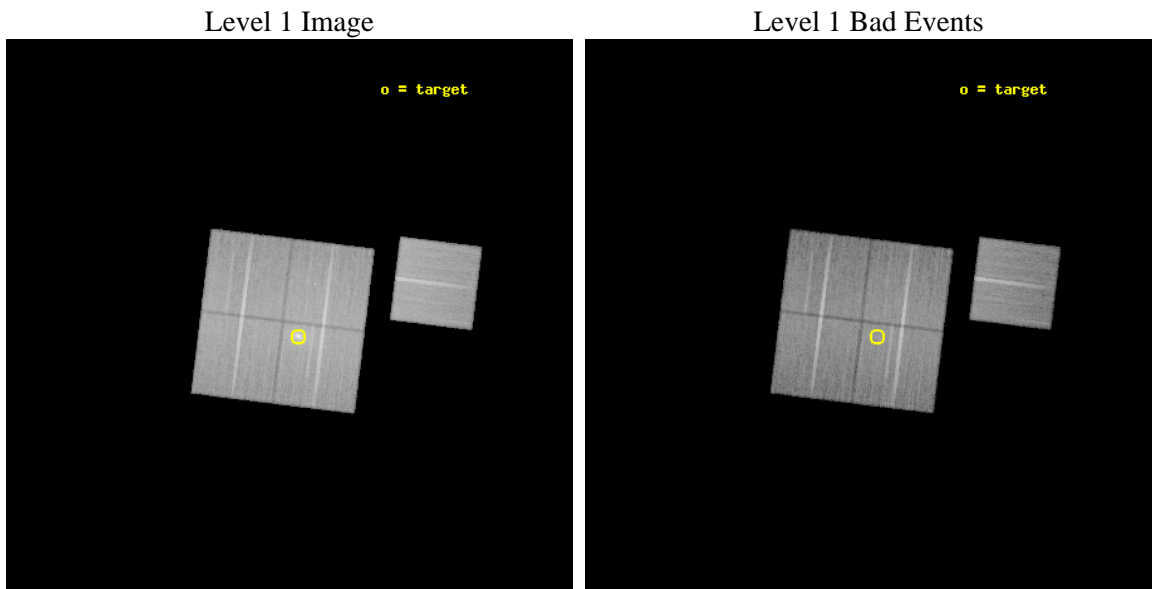
seq_num	800707	Sequence number
obs_id	9370	Observation id
title	Probing Dark Energy with Relaxed Galaxy Clusters	Proposal title
observer	Prof. Steven Allen	Principal investigator
object	RXJ2129+0005	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	322.41625	Observer's specified target RA [deg]
dec_targ	0.088889	Observer's specified target Dec [deg]
ra_nom	322.43201601421	Nominal RA [deg]
dec_nom	0.11197274033937	Nominal Dec [deg]
roll_nom	97.039524924568	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30034.681985557	Sum of GTIs [s]
livetime	29642.256754205	Livetime [s]
ontime0	30034.558855414	Sum of GTIs [s]
ontime1	30040.881826222	Sum of GTIs [s]
ontime2	30025.21799463	Sum of GTIs [s]
ontime3	30034.681985557	Sum of GTIs [s]
ontime6	30040.799746215	Sum of GTIs [s]
l2events	140186	Number of level 2 events



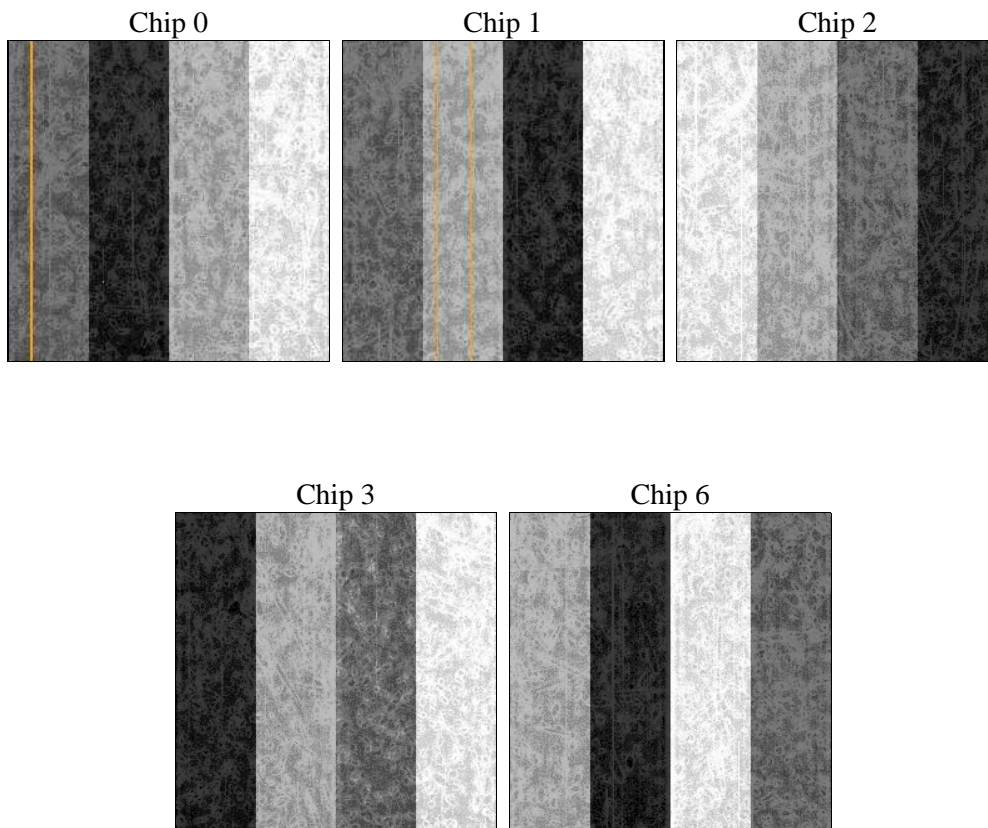
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	30034.681985557	Sum of GTIs [s]
caldbver	4.4.9	 	ontime0	30034.558855414	Sum of GTIs [s]
date	2012-06-03T22:43:11	Date and time of file creation	ontime1	30040.881826222	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	30025.21799463	Sum of GTIs [s]
			ontime3	30034.681985557	Sum of GTIs [s]
			ontime6	30040.799746215	Sum of GTIs [s]
			l1events	1318753	Number of level 1 events

2.1.4 Events

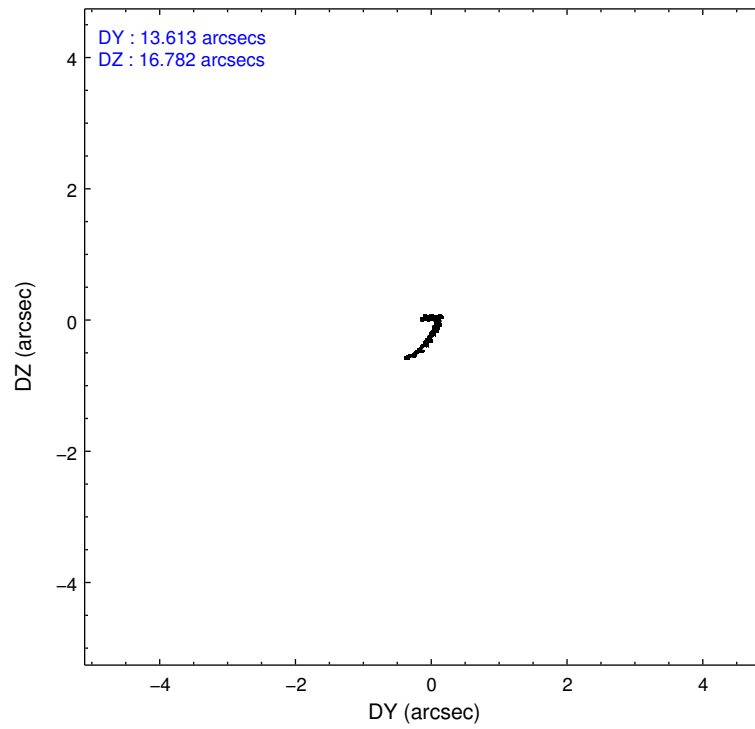
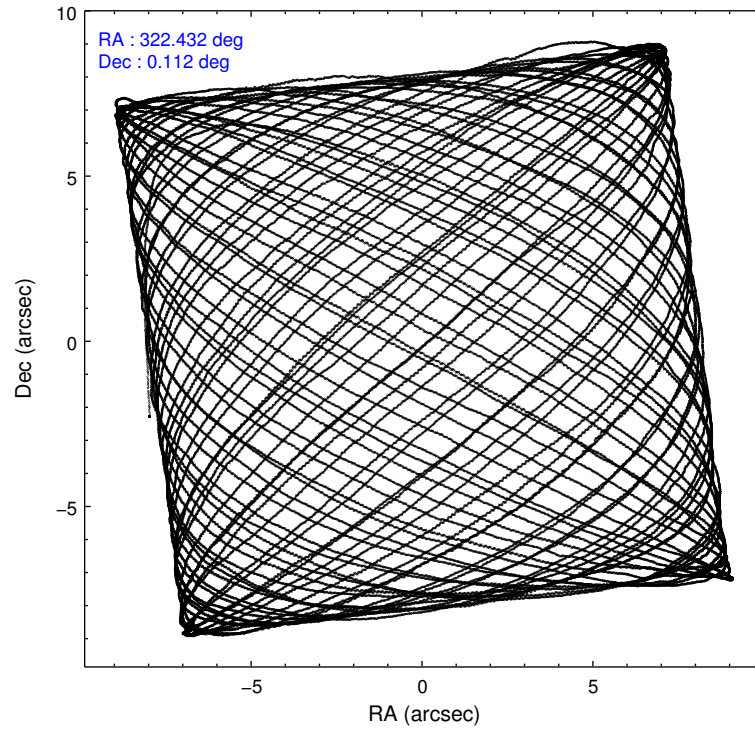
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	241978	250083	272757	289956	263979
rejected events	214875	218649	244057	241189	236280
rejected %	88%	87%	89%	83%	89%

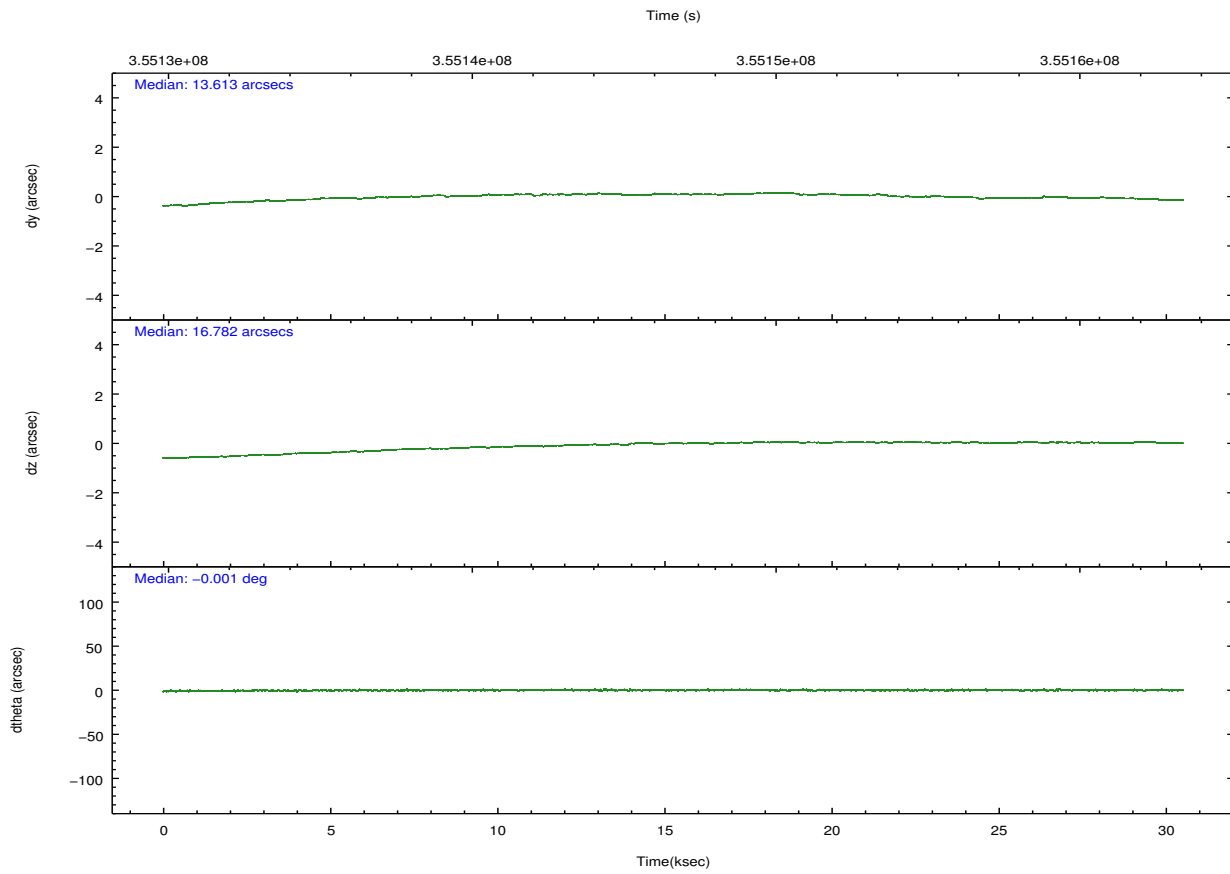
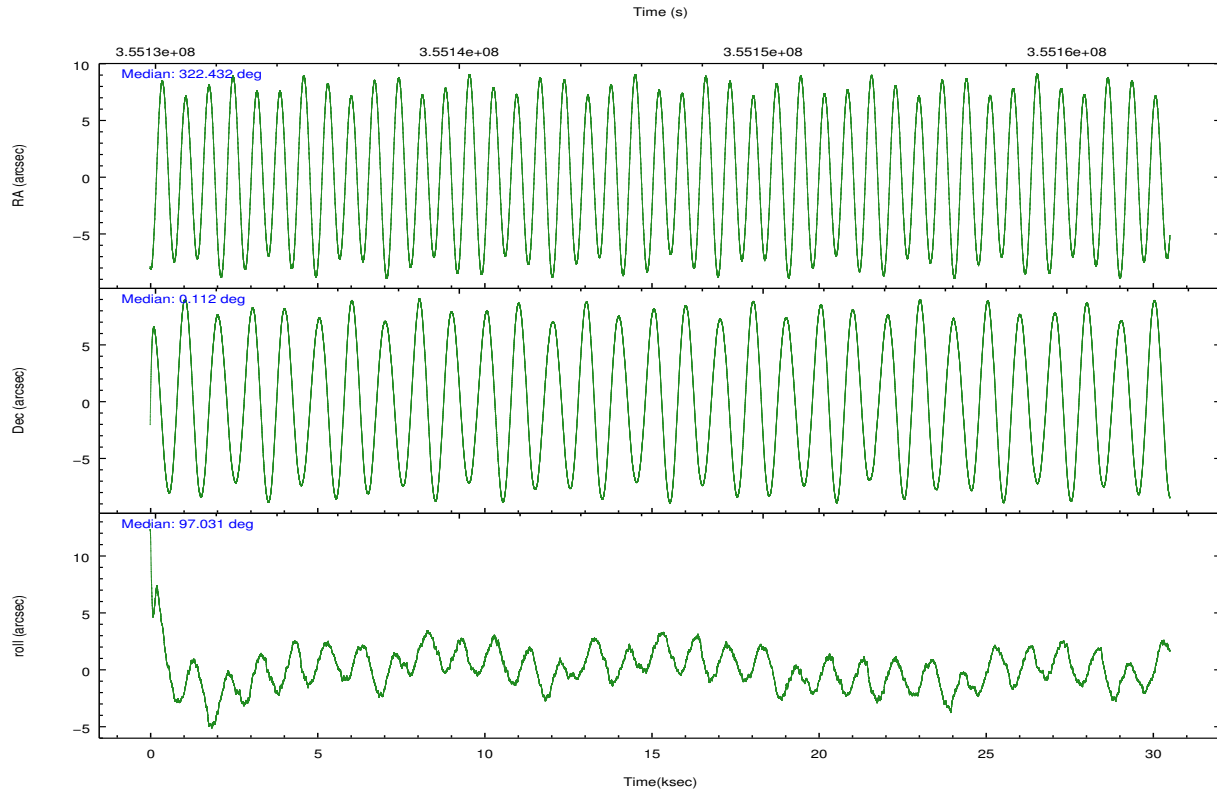
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9512	11806	11237	28315	9616
	3%	4%	4%	9%	3%
grade 1 events	152	158	180	296	127
	0%	0%	0%	0%	0%
grade 2 events	6797	7029	6589	7906	6329
	2%	2%	2%	2%	2%
grade 3 events	2993	3304	2851	3548	2946
	1%	1%	1%	1%	1%
grade 4 events	2771	3179	2907	3359	2911
	1%	1%	1%	1%	1%
grade 5 events	9490	10243	9163	11050	10771
	3%	4%	3%	3%	4%
grade 6 events	5036	6122	5122	5647	5903
	2%	2%	1%	1%	2%
grade 7 events	205227	208242	234708	229835	225376
	84%	83%	86%	79%	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	322.448673	322.4320160142136	CCD I2 on	Y	Y
[deg] Pointing Dec	0.090094	0.1119727403393735	CCD I3 on	Y	Y
[deg] Pointing Roll	96.830808	97.03952492456791	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)	355131857.184000	355130618.23071	CCD S5 on	N	N
Observation start date	2009-04-03T07:43:11	2009-04-03T07:23:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	355161857.184000	355162918.54482	On-chip summing requested	N	N
Observation end date	2009-04-03T16:03:11	2009-04-03T16:21:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



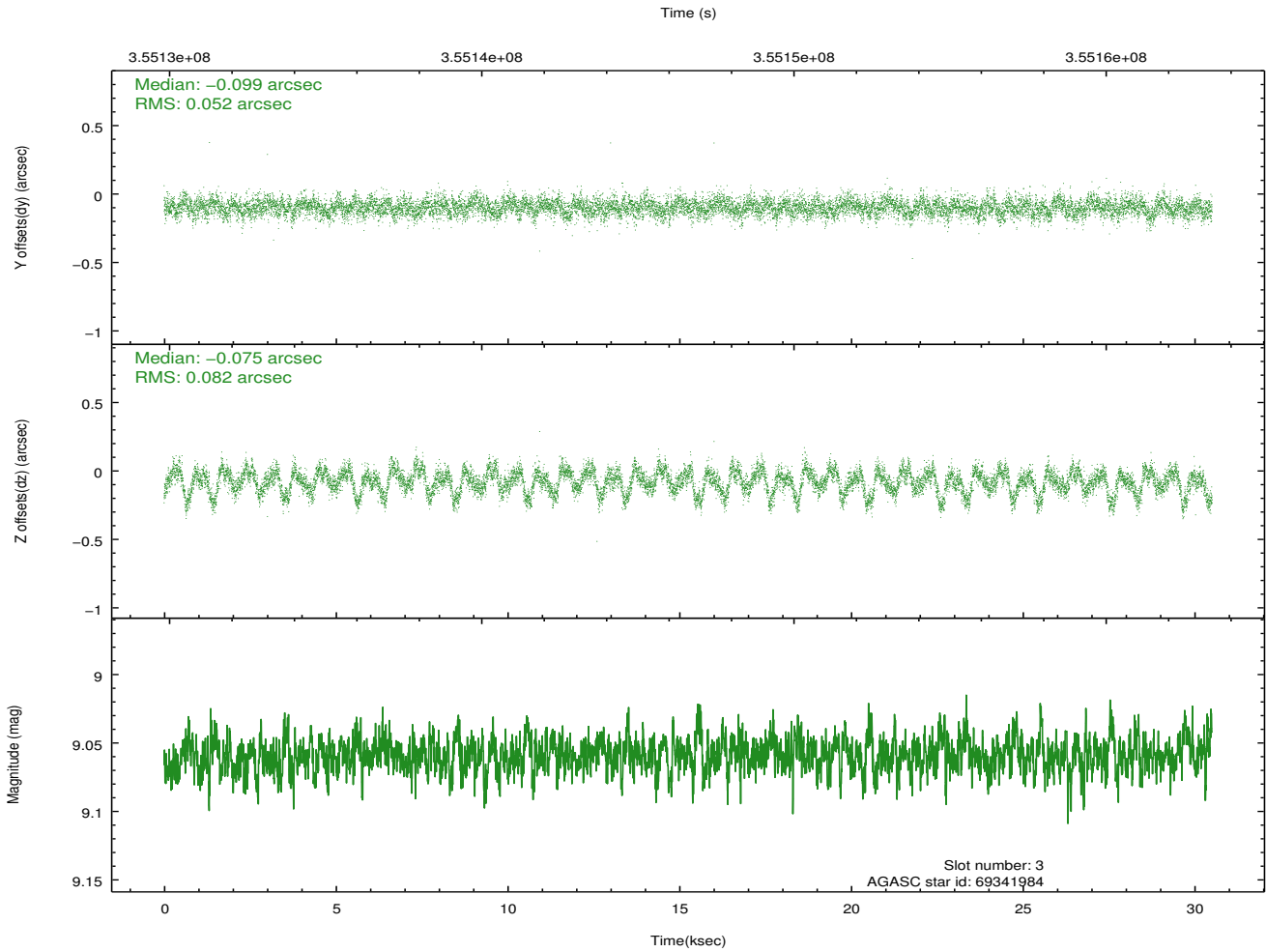
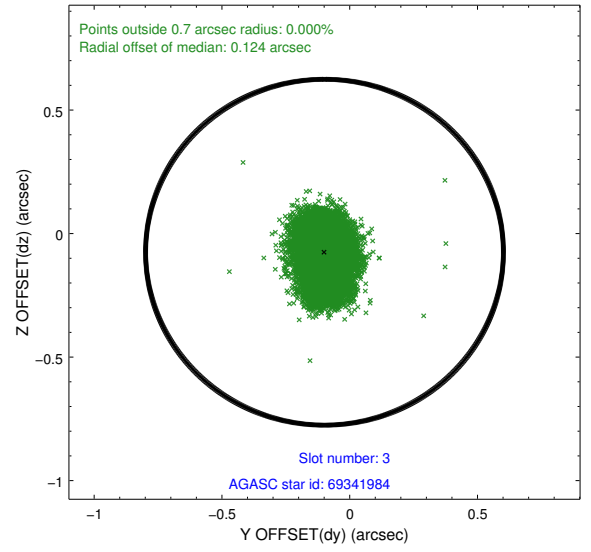
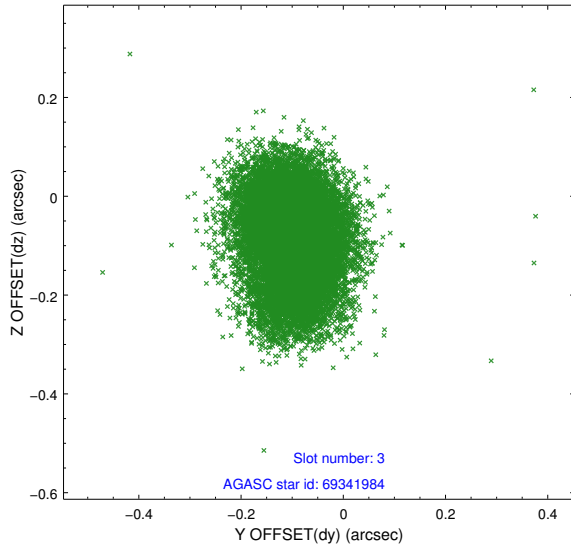


Slot Statistics

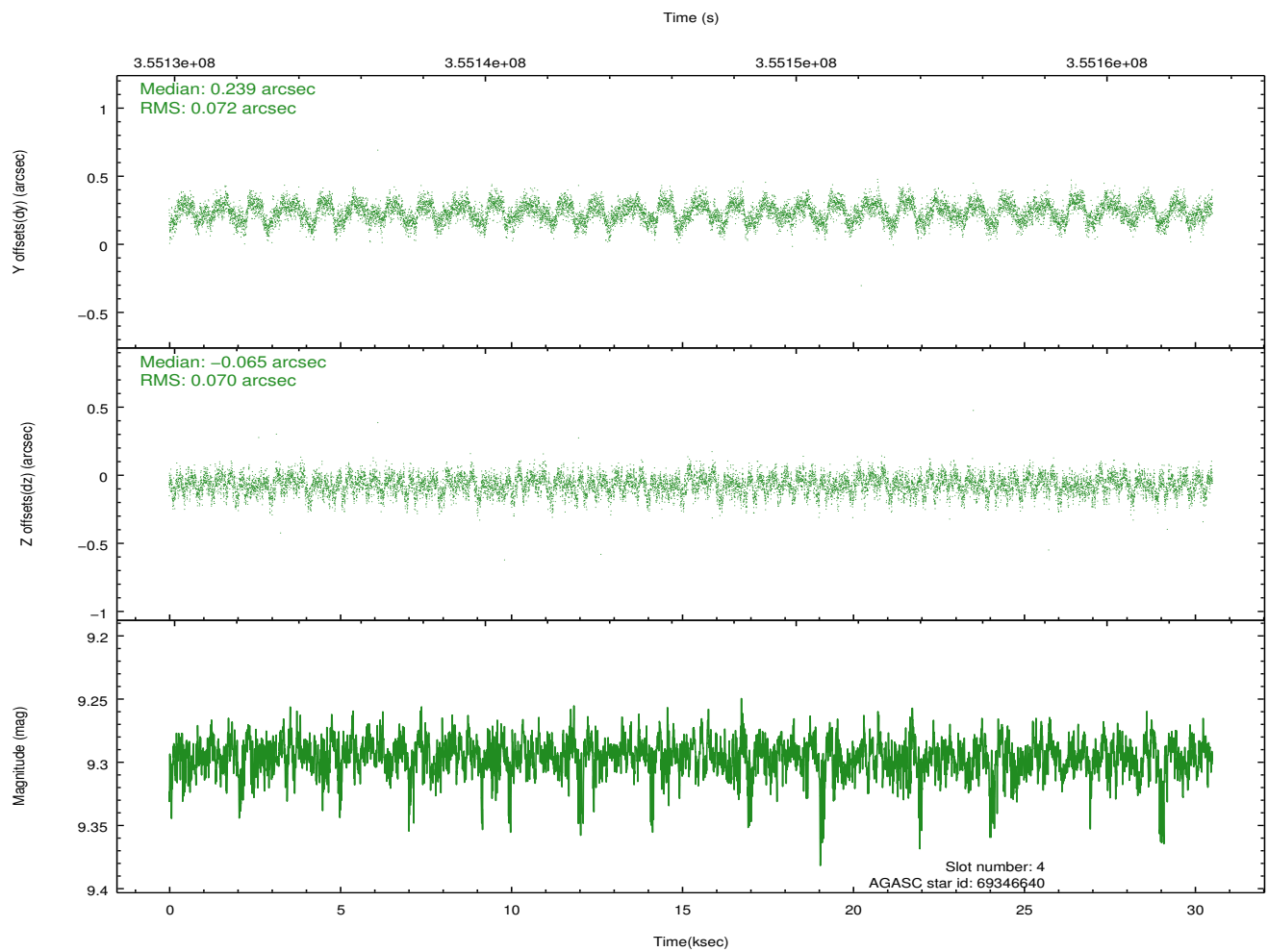
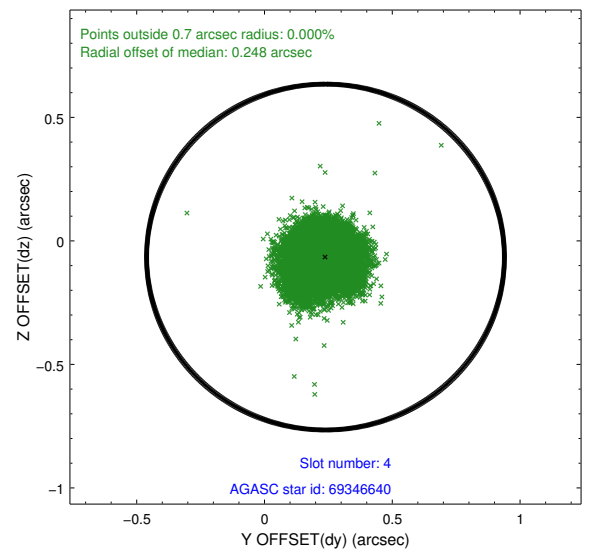
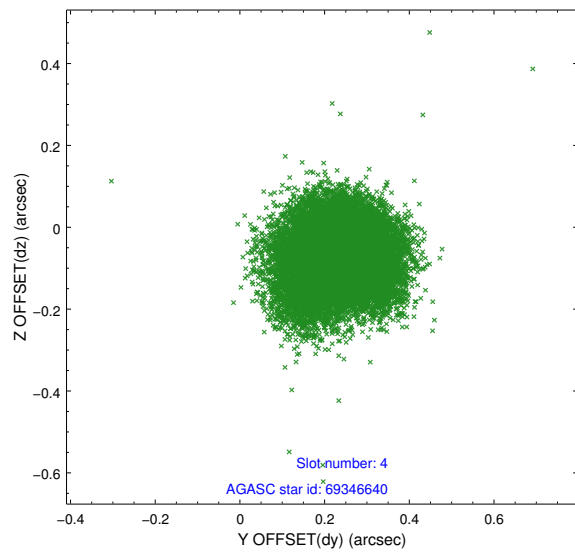
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	7442	0.068	-0.036	0.007	0.013	0.000000	0.000000	925.95	-840.36
1	FID	ACIS-I-5	7.00	7442	-0.210	0.072	0.007	0.015	0.000000	0.000000	-1822.36	1057.24
2	FID	ACIS-I-6	7.00	7441	0.050	0.035	0.008	0.013	0.000000	0.000000	391.44	1701.75
3	GUIDE	69341984	9.06	14876	-0.099	-0.075	0.101	0.171	322.061721	0.691523	2315.38	1126.00
4	GUIDE	69346640	9.30	14869	0.239	-0.065	0.107	0.171	322.251381	0.037055	-104.64	728.02
5	GUIDE	71042728	9.19	14836	-0.175	0.227	0.122	0.189	322.833566	0.458135	1151.07	-1532.83
6	GUIDE	69346400	9.33	14857	-0.013	-0.287	0.149	0.223	321.808714	0.369328	1271.91	2167.87
7	GUIDE	71045064	8.41	14868	0.058	0.217	0.113	0.192	323.048075	0.730744	2034.03	-2416.23

2.4 Star Slots

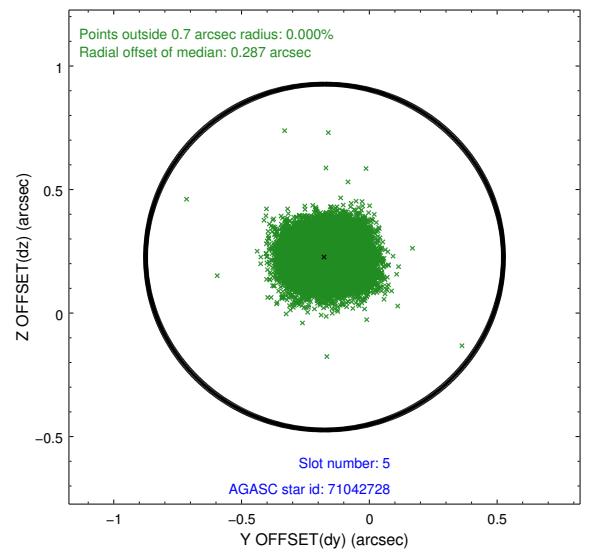
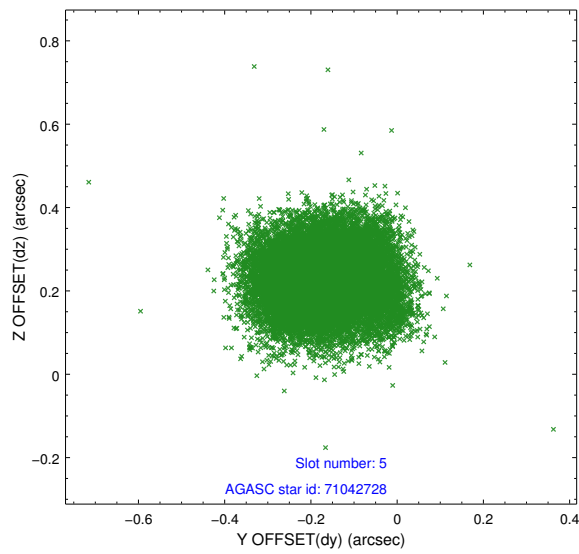
2.4.1 Slot 3



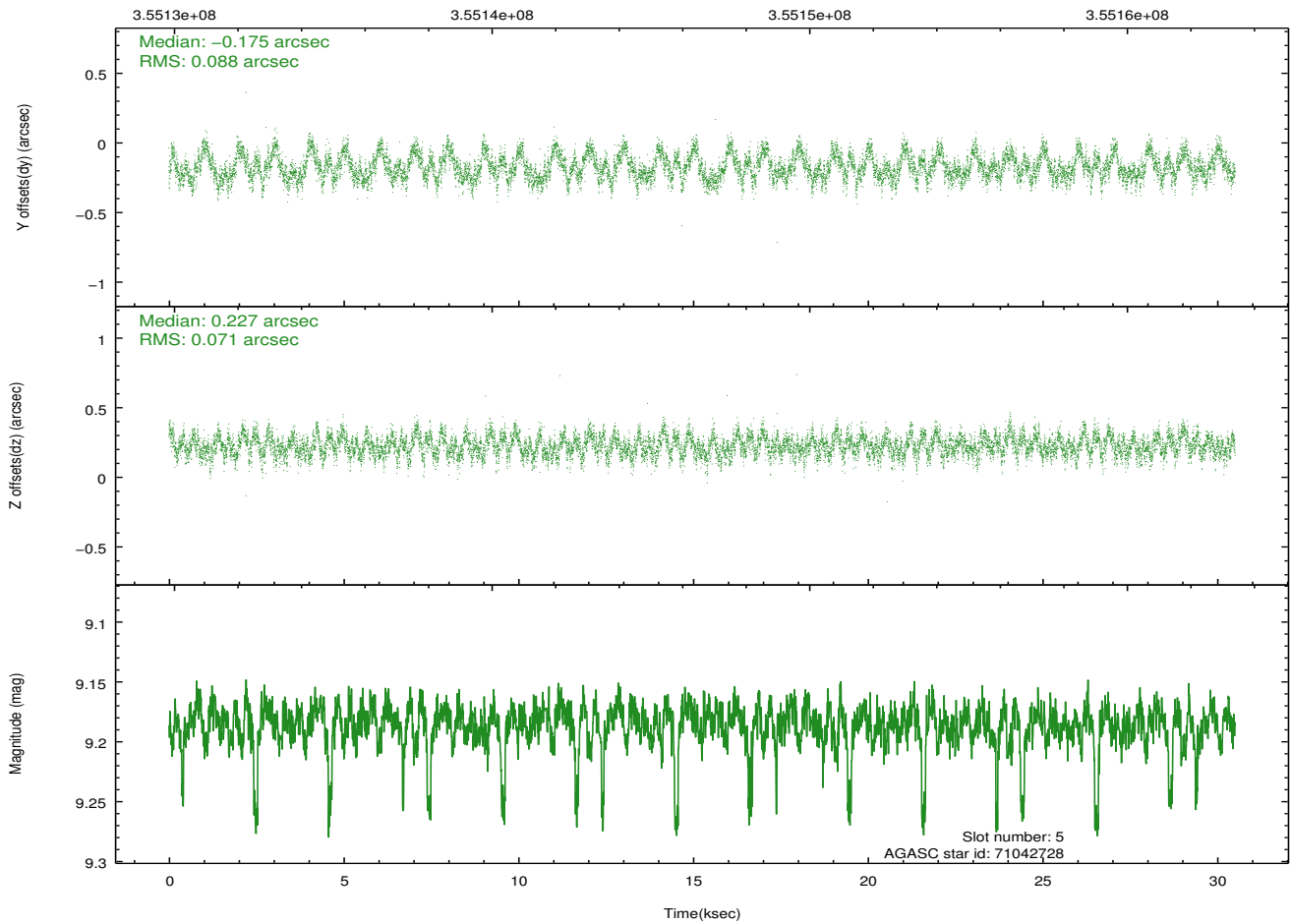
2.4.2 Slot 4



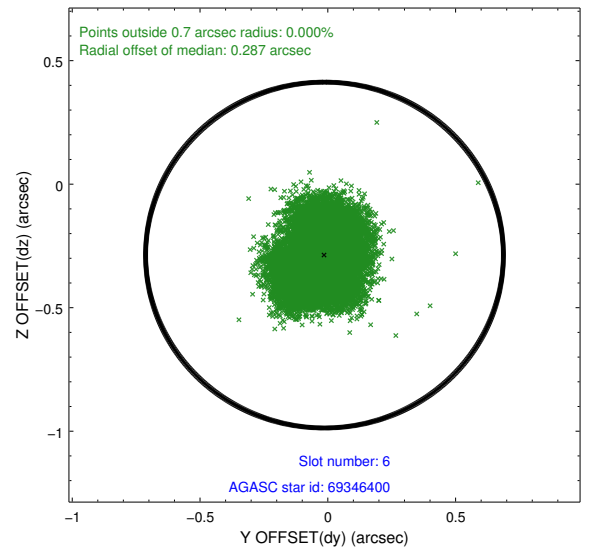
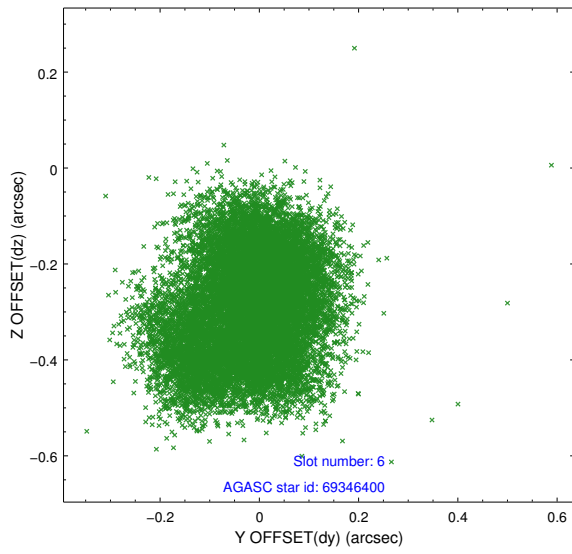
2.4.3 Slot 5



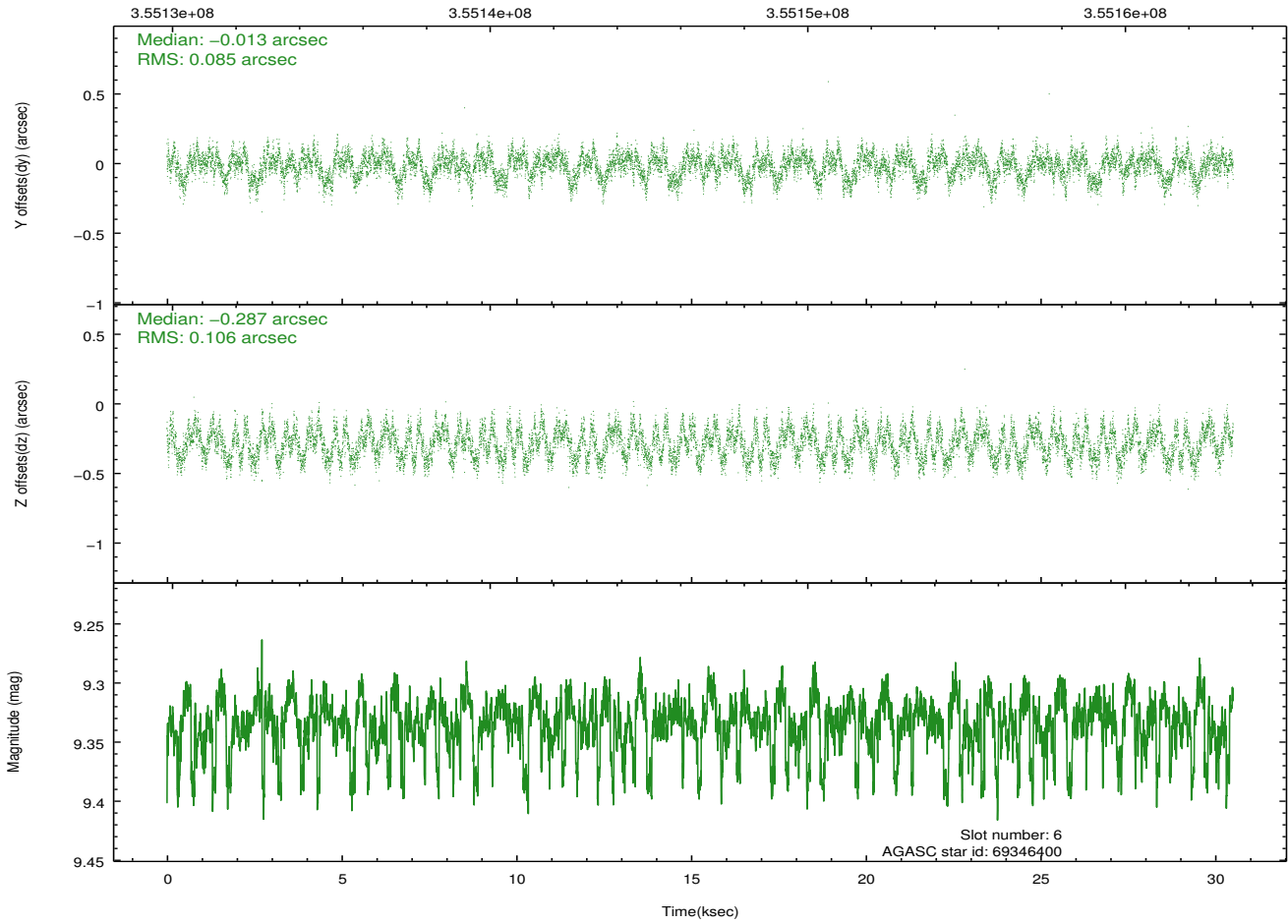
Time (s)



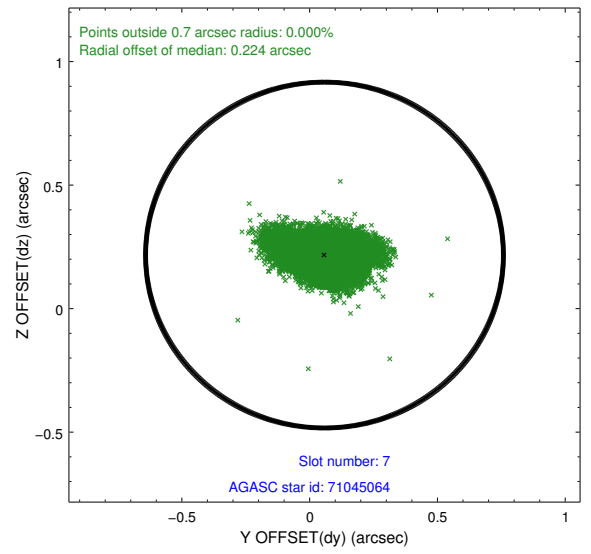
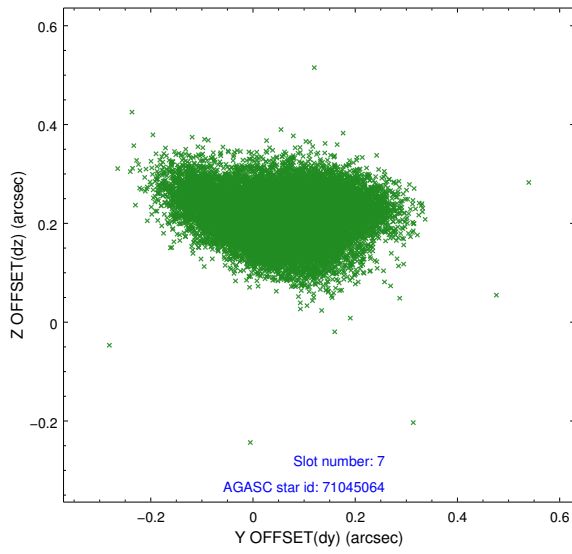
2.4.4 Slot 6



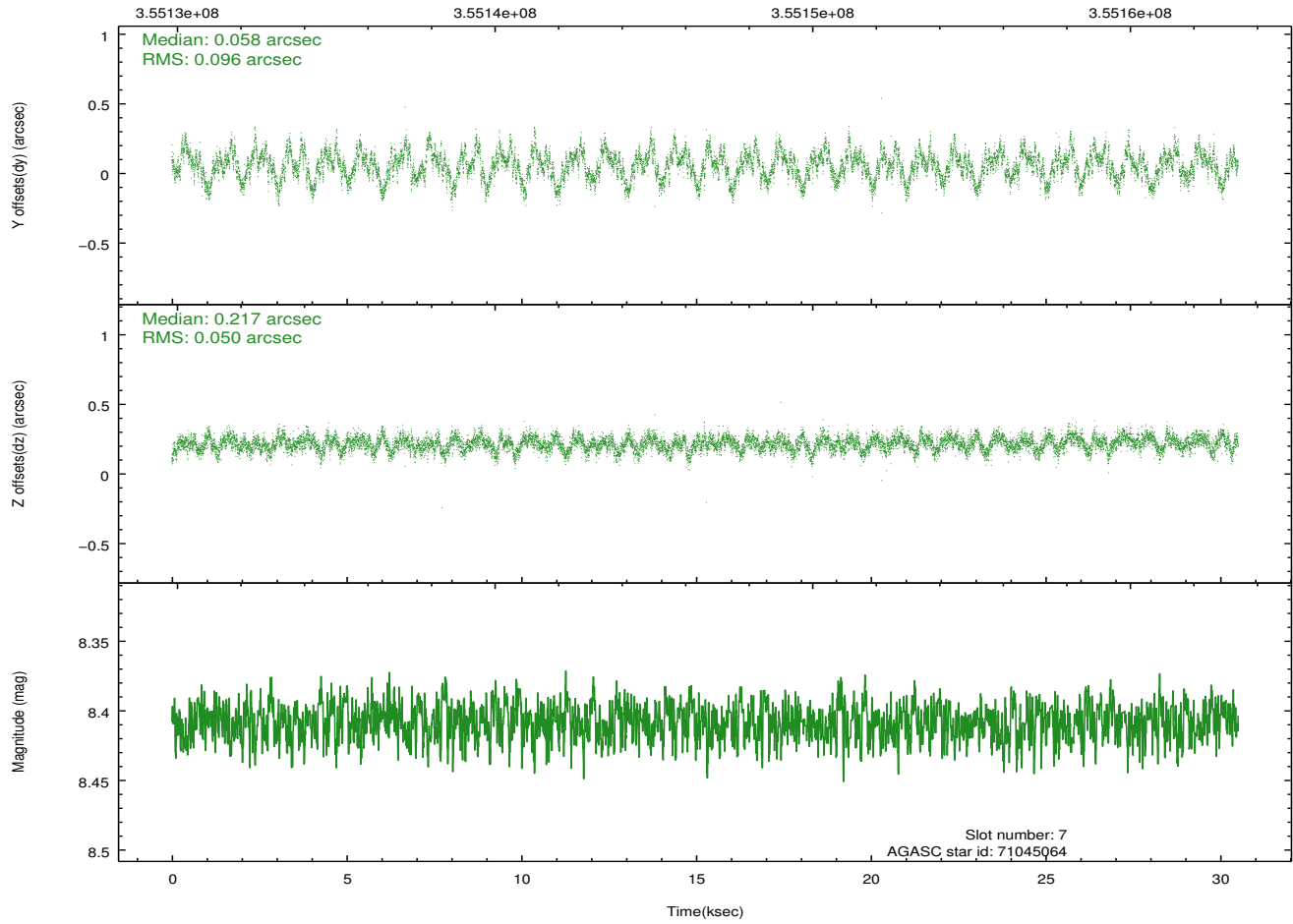
Time (s)



2.4.5 Slot 7

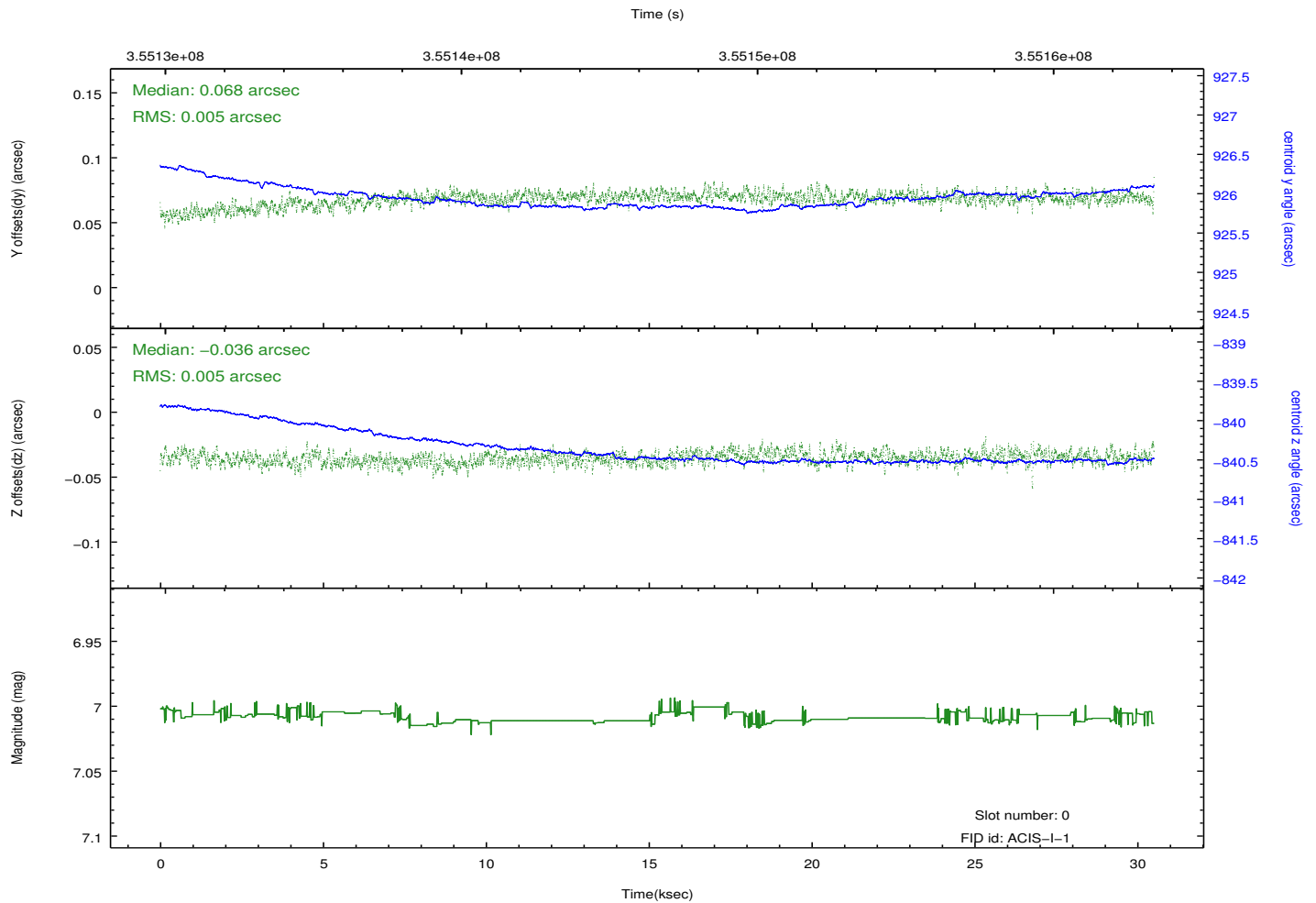
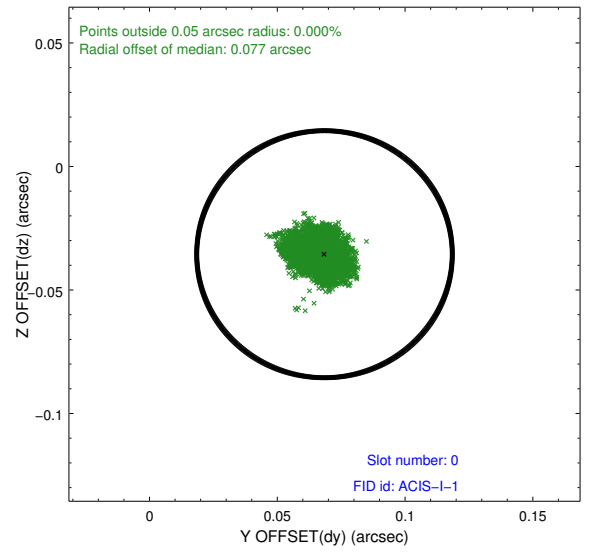
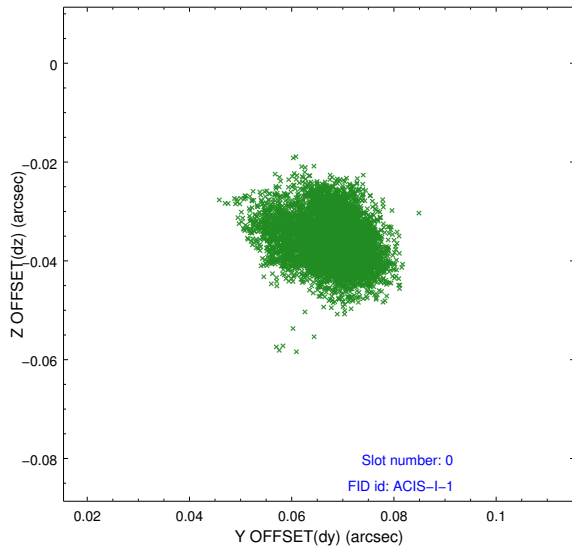


Time (s)

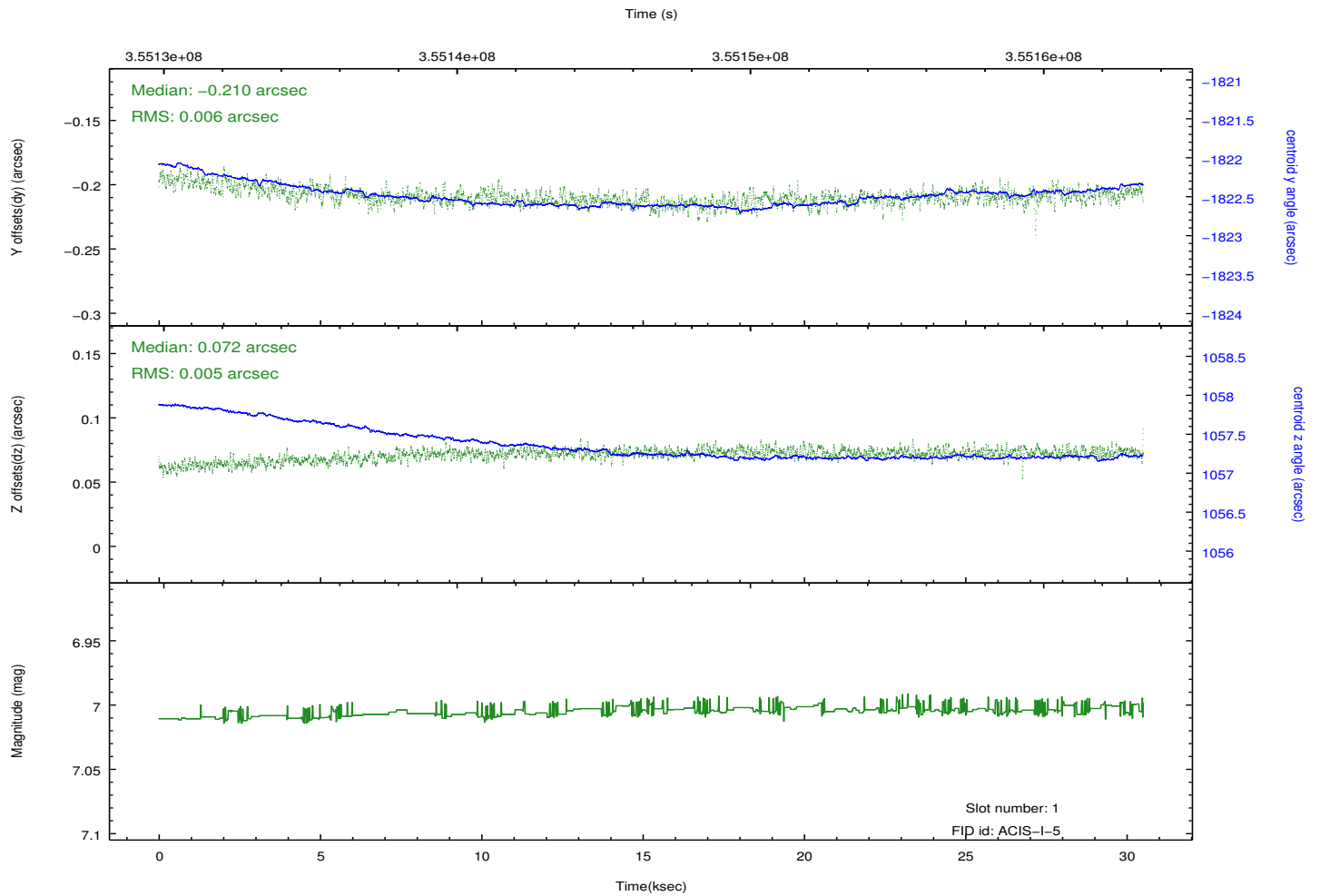
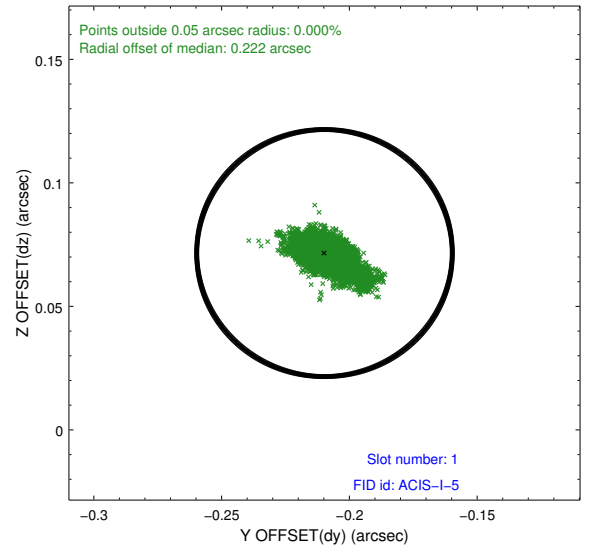
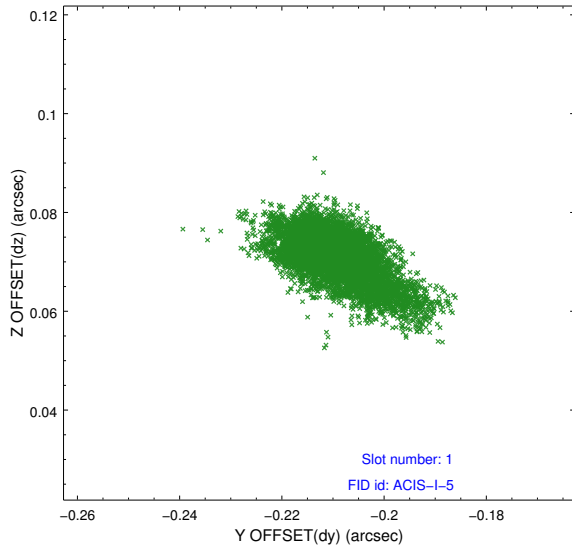


2.5 FID Slots

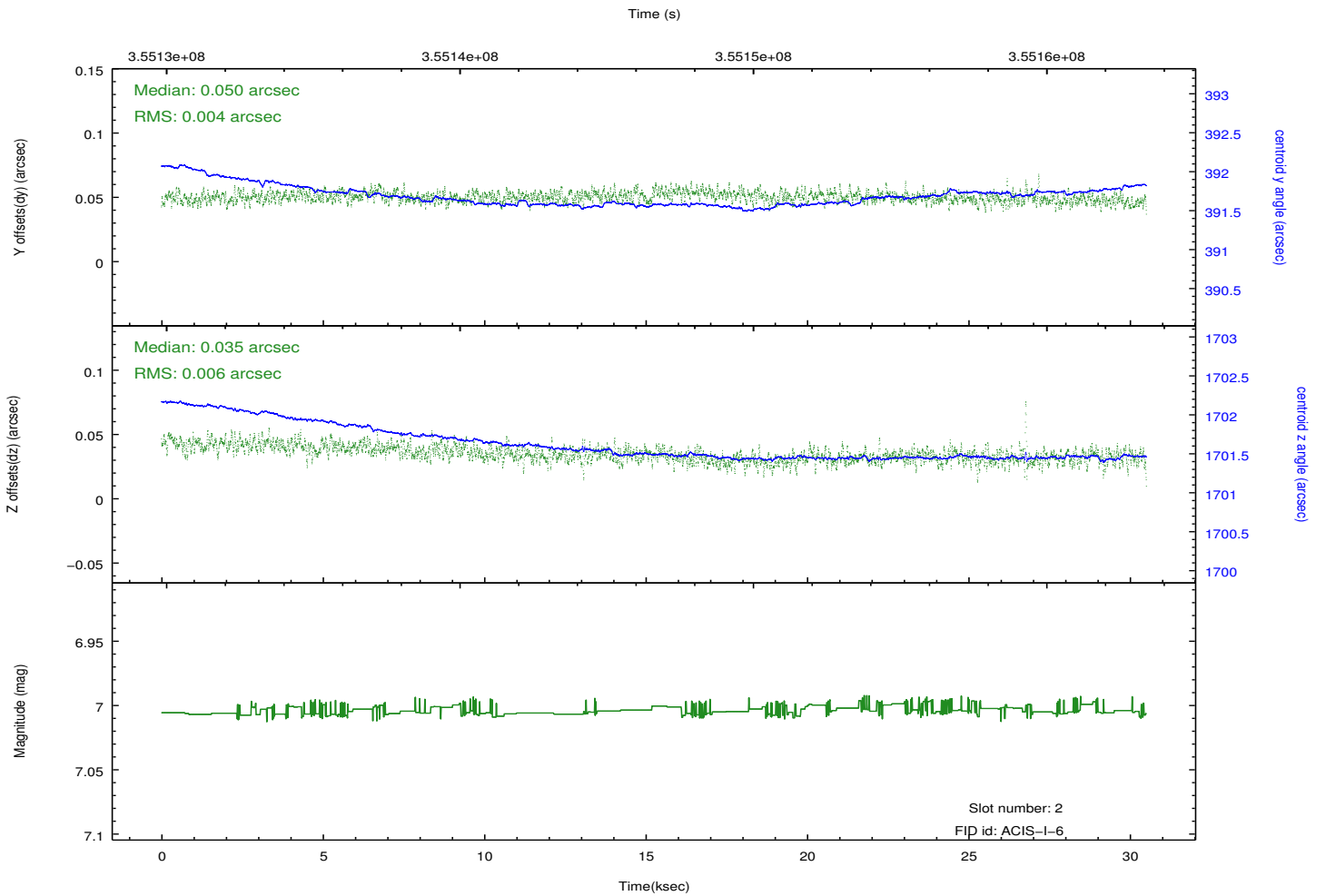
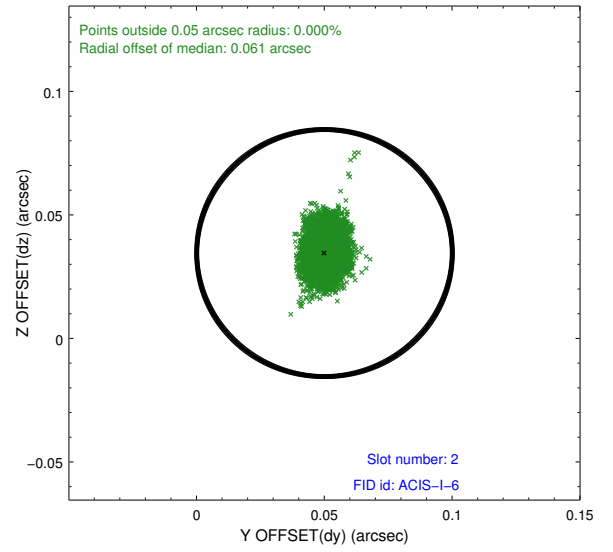
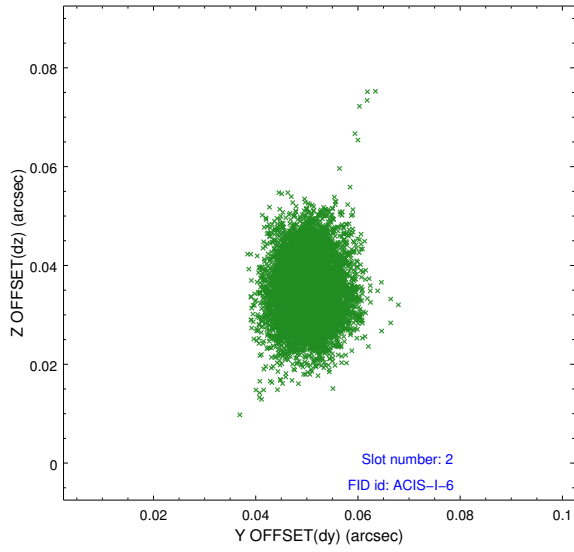
2.5.1 Slot 0



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)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.0358183

A.2 Comments