

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 16991 - L2 Version 1
Chandra X-Ray Center

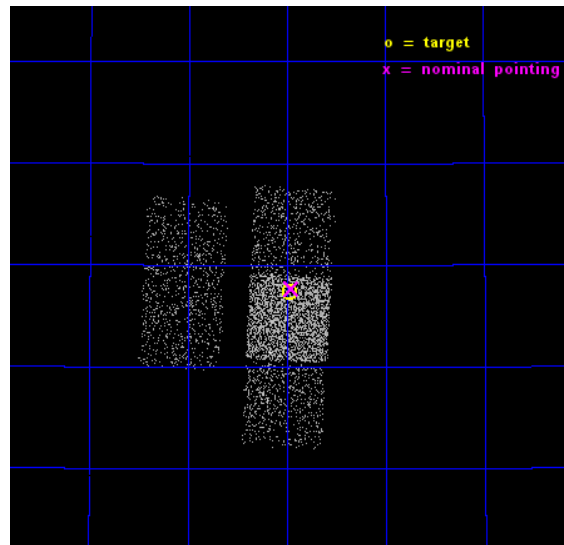
L2 Processing Date : Jan 16 2015

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1 Front

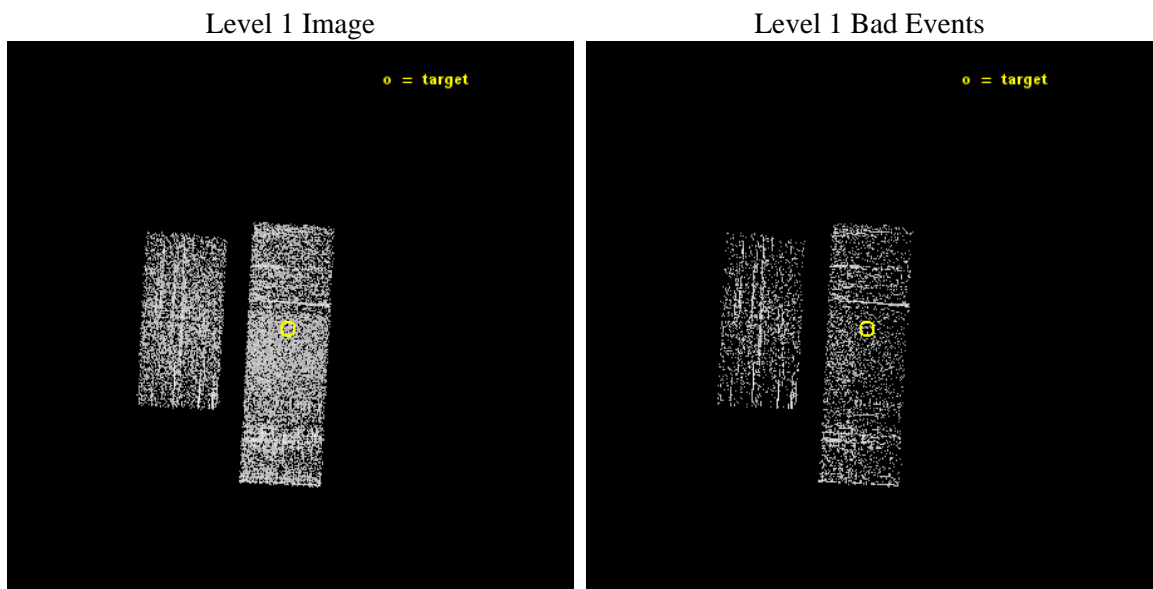
seq_num	601184	Sequence number
obs_id	16991	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	NGC4144	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	182.494167	Observer's specified target RA [deg]
dec_targ	46.457167	Observer's specified target Dec [deg]
ra_nom	182.48879914595	Nominal RA [deg]
dec_nom	46.461602978573	Nominal Dec [deg]
roll_nom	93.215430541614	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1063.300008297	Sum of GTIs [s]
livetime	1049.4072108985	Livetime [s]
ontime2	1063.300008297	Sum of GTIs [s]
ontime3	1063.300008297	Sum of GTIs [s]
ontime6	1063.300008297	Sum of GTIs [s]
ontime7	1063.300008297	Sum of GTIs [s]
ontime8	1063.300008297	Sum of GTIs [s]
l2events	5511	Number of level 2 events



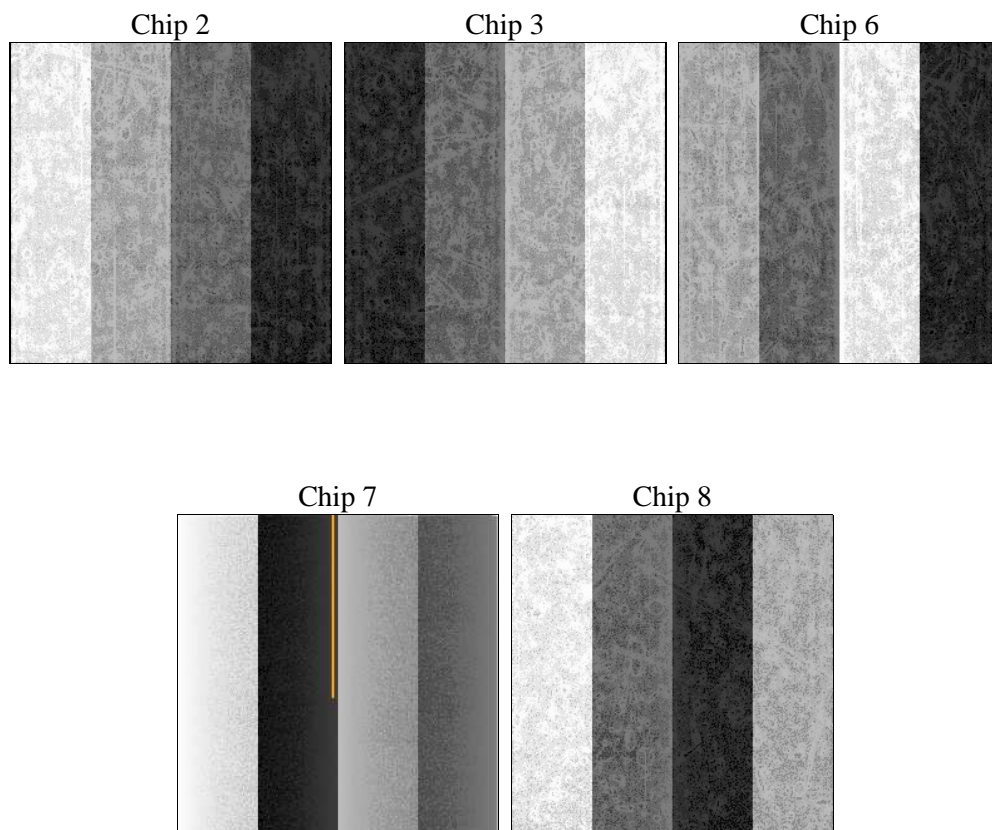
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	1063.300008297	Sum of GTIs [s]
caldsver	4.6.5	 	ontime2	1063.300008297	Sum of GTIs [s]
date	2015-01-17T01:06:59	Date and time of file creation	ontime3	1063.300008297	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	1063.300008297	Sum of GTIs [s]
			ontime7	1063.300008297	Sum of GTIs [s]
			ontime8	1063.300008297	Sum of GTIs [s]
			l1events	30906	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	5003	5476	5608	7507	7312
rejected events	4407	4911	4871	4254	5217
rejected %	88%	89%	86%	56%	71%

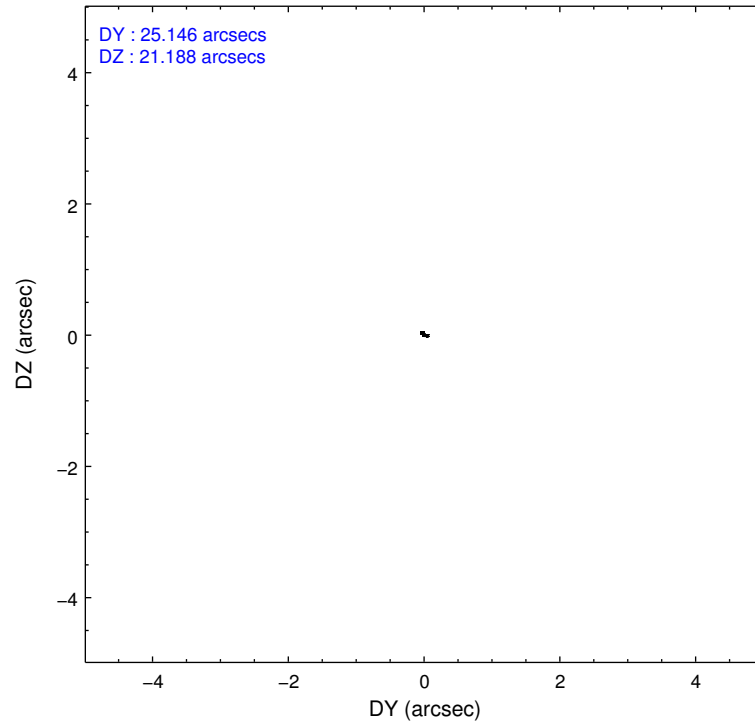
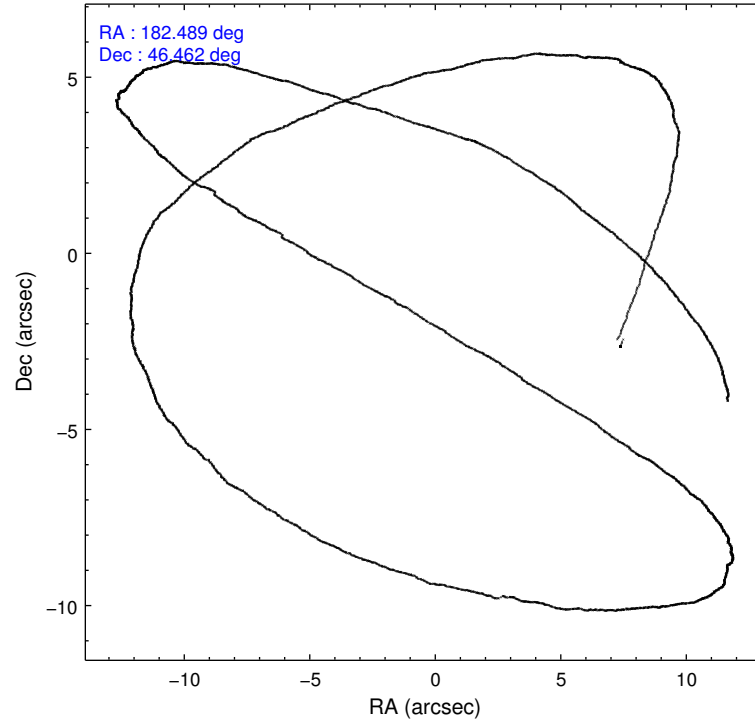
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	183	198	274	279	608
	3%	3%	4%	3%	8%
grade 1 events	4	3	4	8	6
	0%	0%	0%	0%	0%
grade 2 events	153	132	156	623	484
	3%	2%	2%	8%	6%
grade 3 events	72	55	73	281	209
	1%	1%	1%	3%	2%
grade 4 events	63	61	69	296	216
	1%	1%	1%	3%	2%
grade 5 events	257	272	304	794	433
	5%	4%	5%	10%	5%
grade 6 events	125	119	165	1782	582
	2%	2%	2%	23%	7%
grade 7 events	4146	4636	4563	3444	4774
	82%	84%	81%	45%	65%

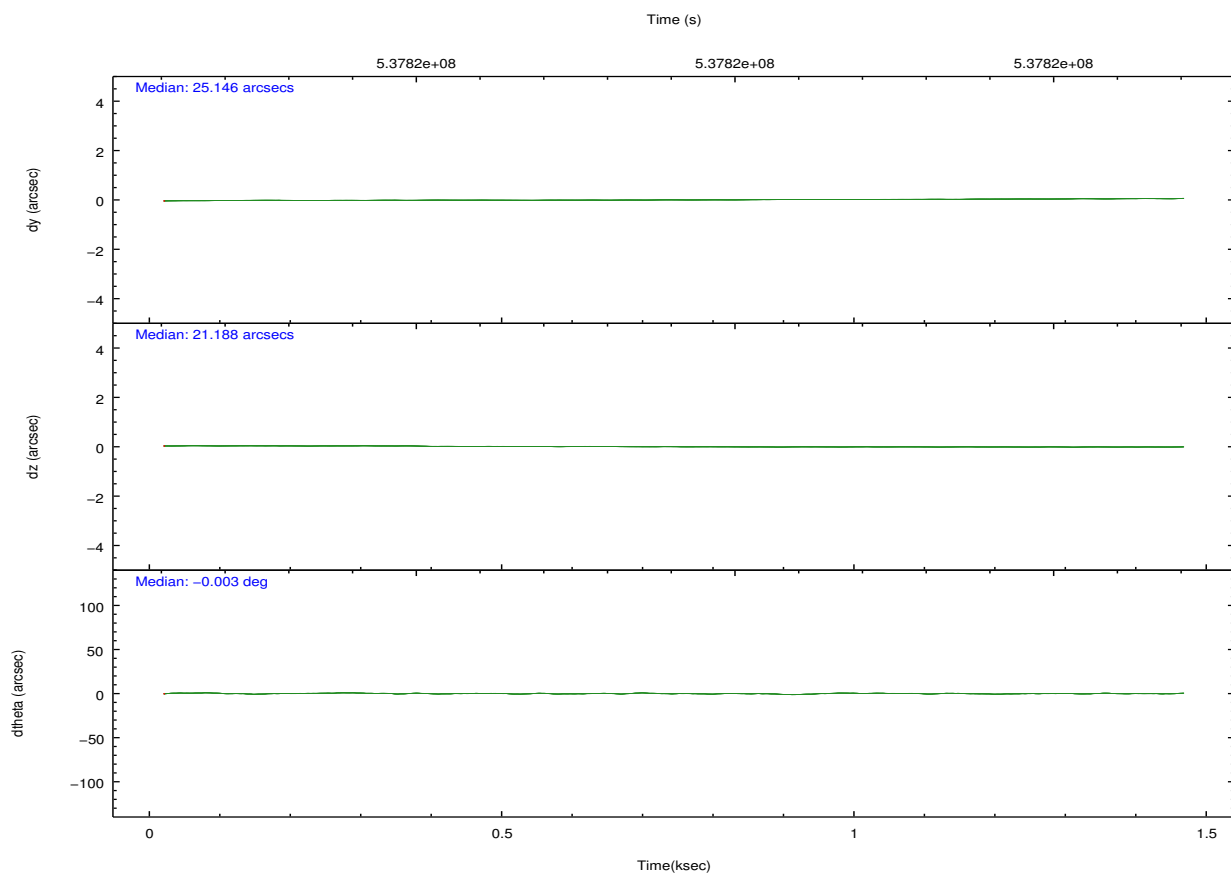
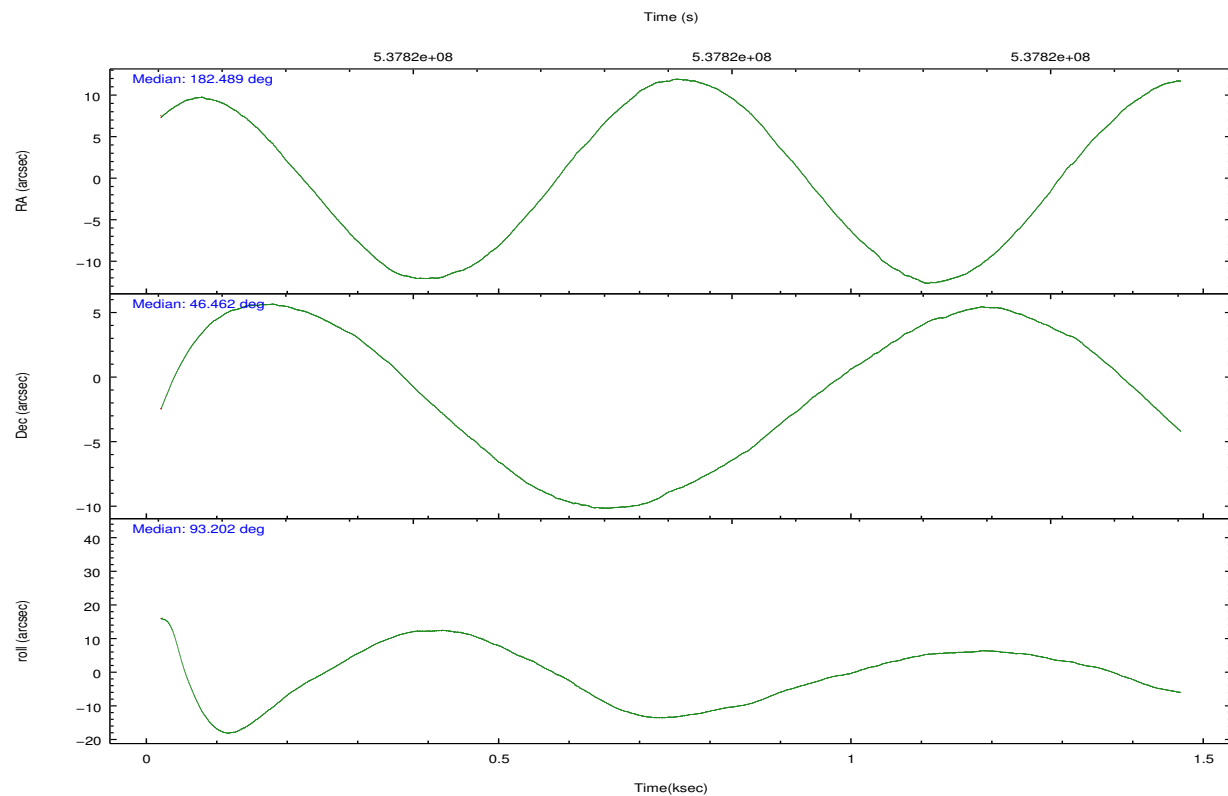
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	182.511124	182.4887991459519
[deg] Pointing Dec	46.438428	46.46160297857293
[deg] Pointing Roll	93.042336	93.21543054161396
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	537815637.184000	537814566.1276799
Observation start date	2015-01-16T17:12:50	2015-01-16T16:56:06
[s] Observation end time (MET)	537816637.184000	537817143.49033
Observation end date	2015-01-16T17:29:30	2015-01-16T17:39:03
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O2	Y
CCD I3 on	O1	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



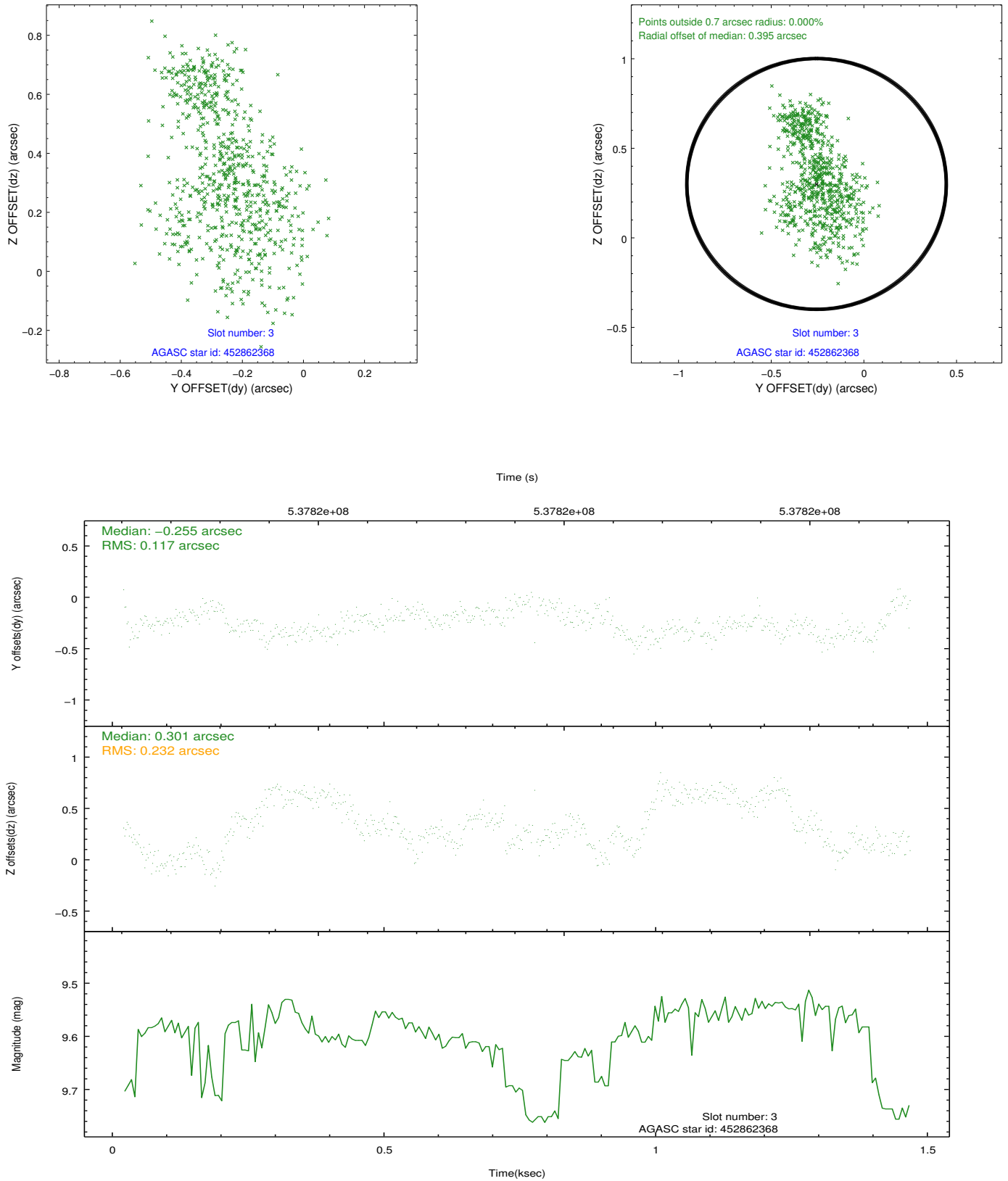


Slot Statistics

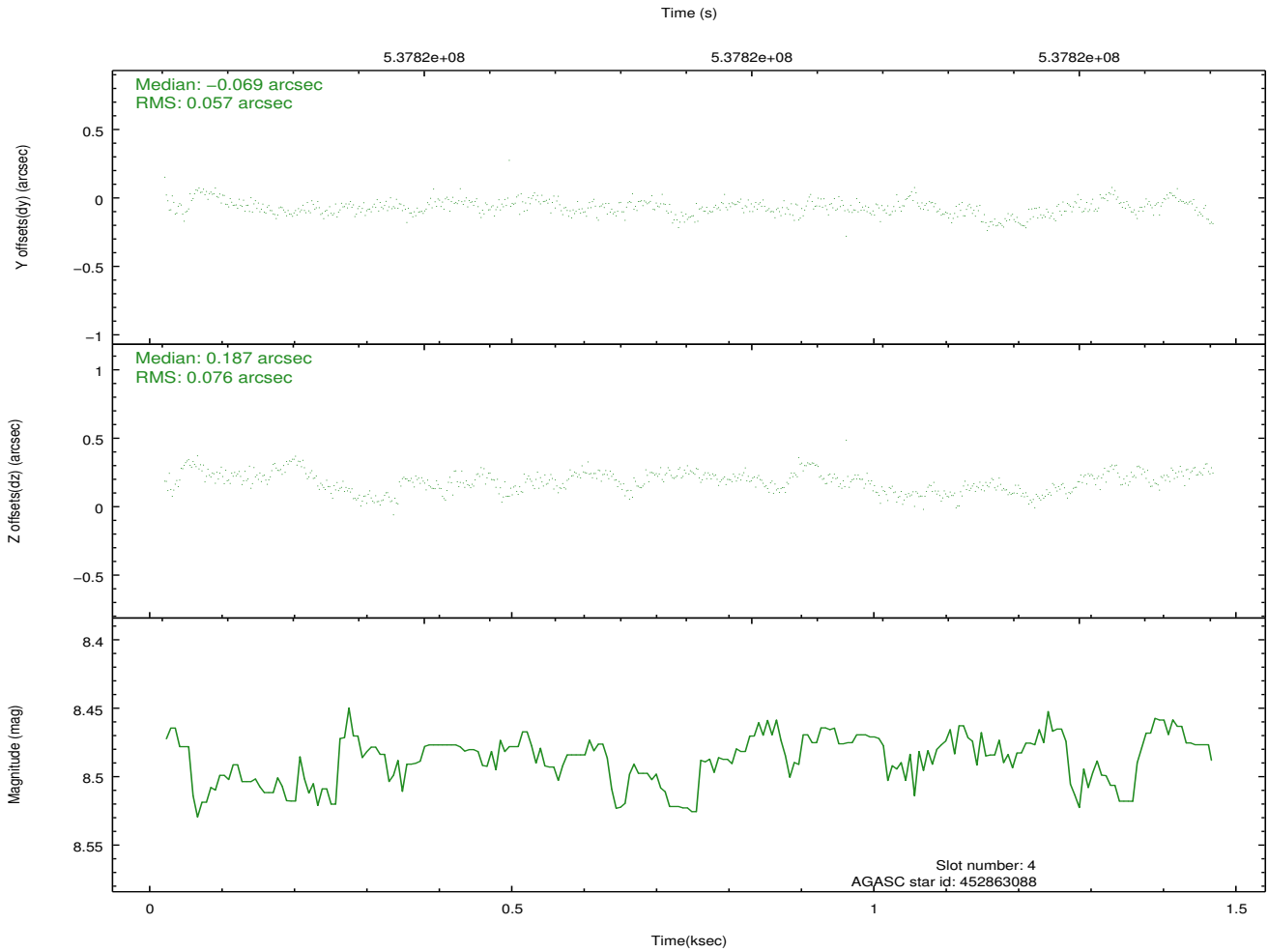
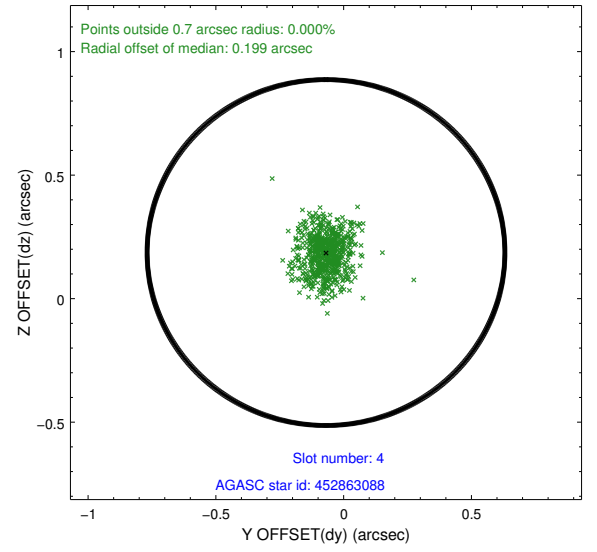
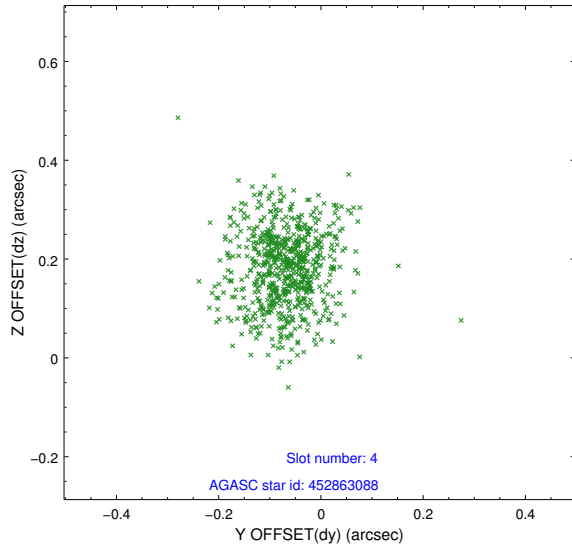
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	354	-0.220	-0.065	0.007	0.010	0.000000	0.000000	-778.63	-1742.75
1	FID		ACIS-S-4	7.09	354	0.429	0.123	0.005	0.010	0.000000	0.000000	2133.18	161.13
2	FID		ACIS-S-5	7.10	353	-0.241	-0.050	0.006	0.011	0.000000	0.000000	-1825.63	159.87
3	GUIDE	used	452862368	9.60	705	-0.255	0.301	0.287	0.426	183.447594	46.710702	868.84	-2360.56
4	GUIDE	used	452863088	8.48	707	-0.069	0.187	0.102	0.163	183.011521	46.600844	522.63	-1269.82
5	GUIDE	used	452864680	9.36	707	0.219	0.016	0.155	0.243	182.350480	46.379347	-191.33	408.28
6	GUIDE	used	452865352	6.97	707	-0.172	-0.582	0.105	0.178	181.581043	46.284095	-420.87	2339.99
7	GUIDE	used	452866720	9.77	706	0.269	0.066	0.168	0.275	182.375922	45.854391	-2082.73	453.40

2.4 Star Slots

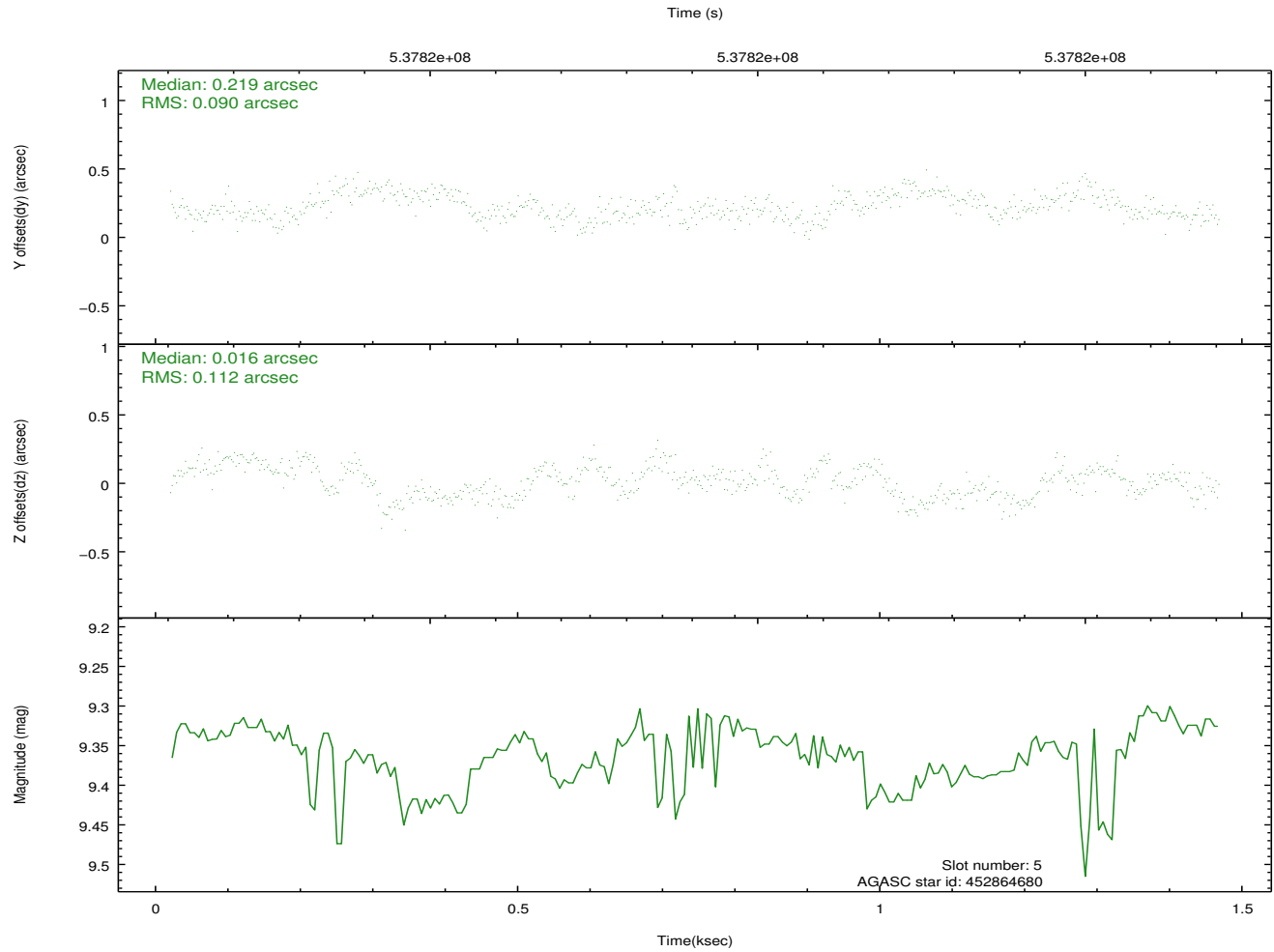
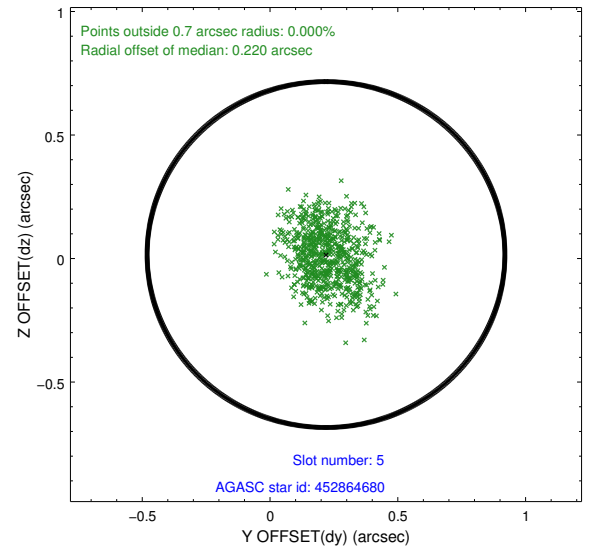
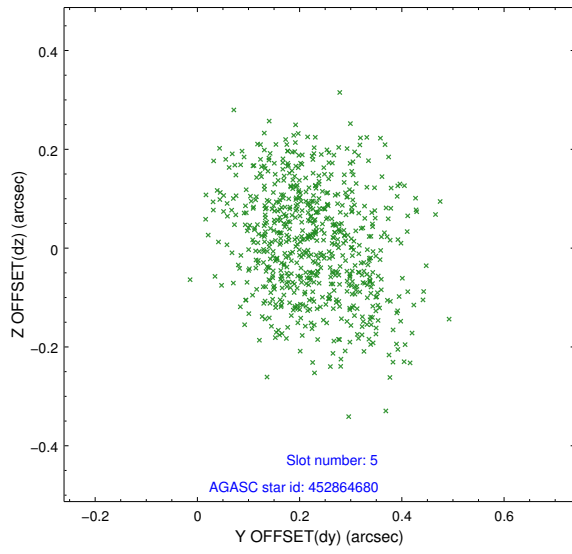
2.4.1 Slot 3



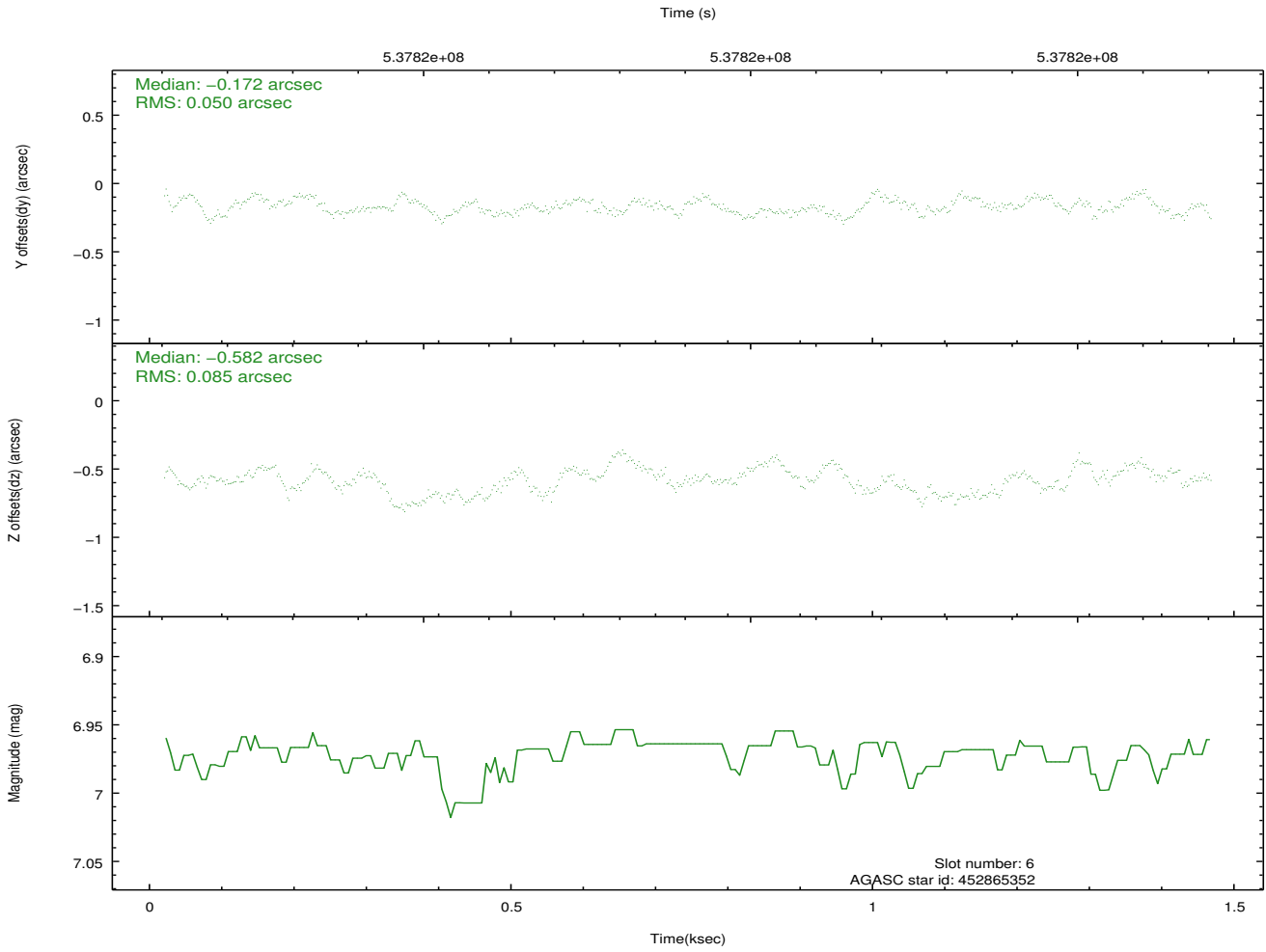
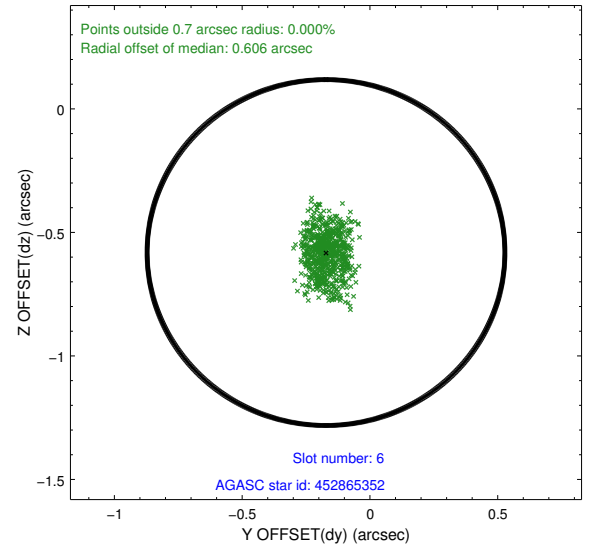
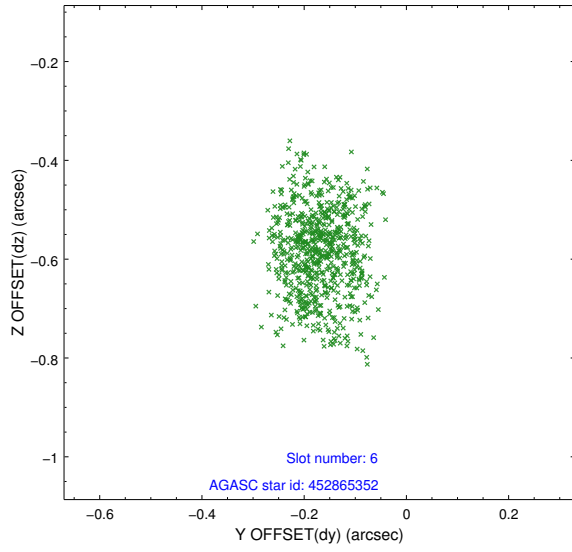
2.4.2 Slot 4



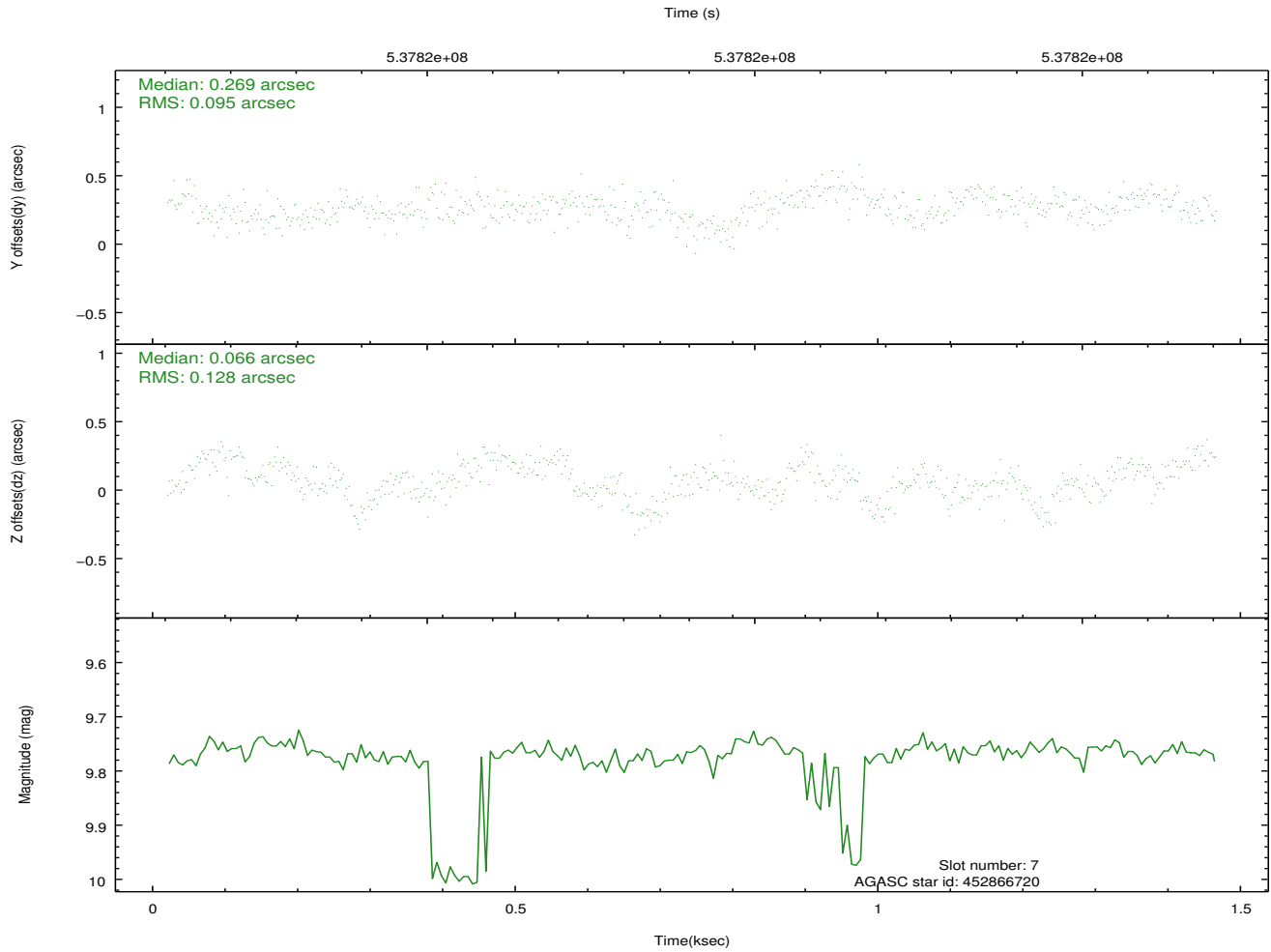
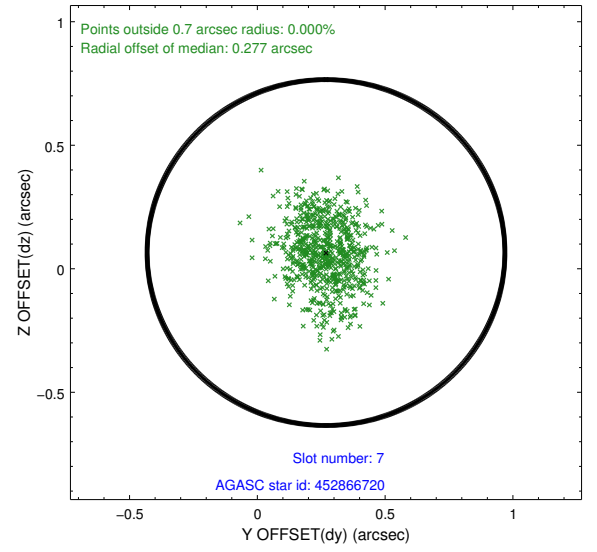
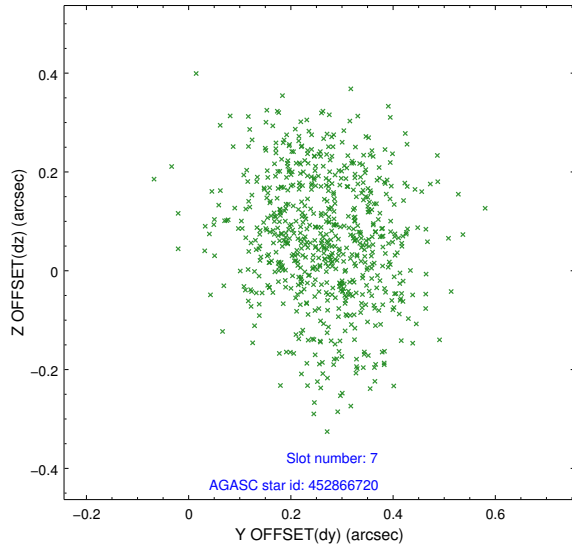
2.4.3 Slot 5



2.4.4 Slot 6

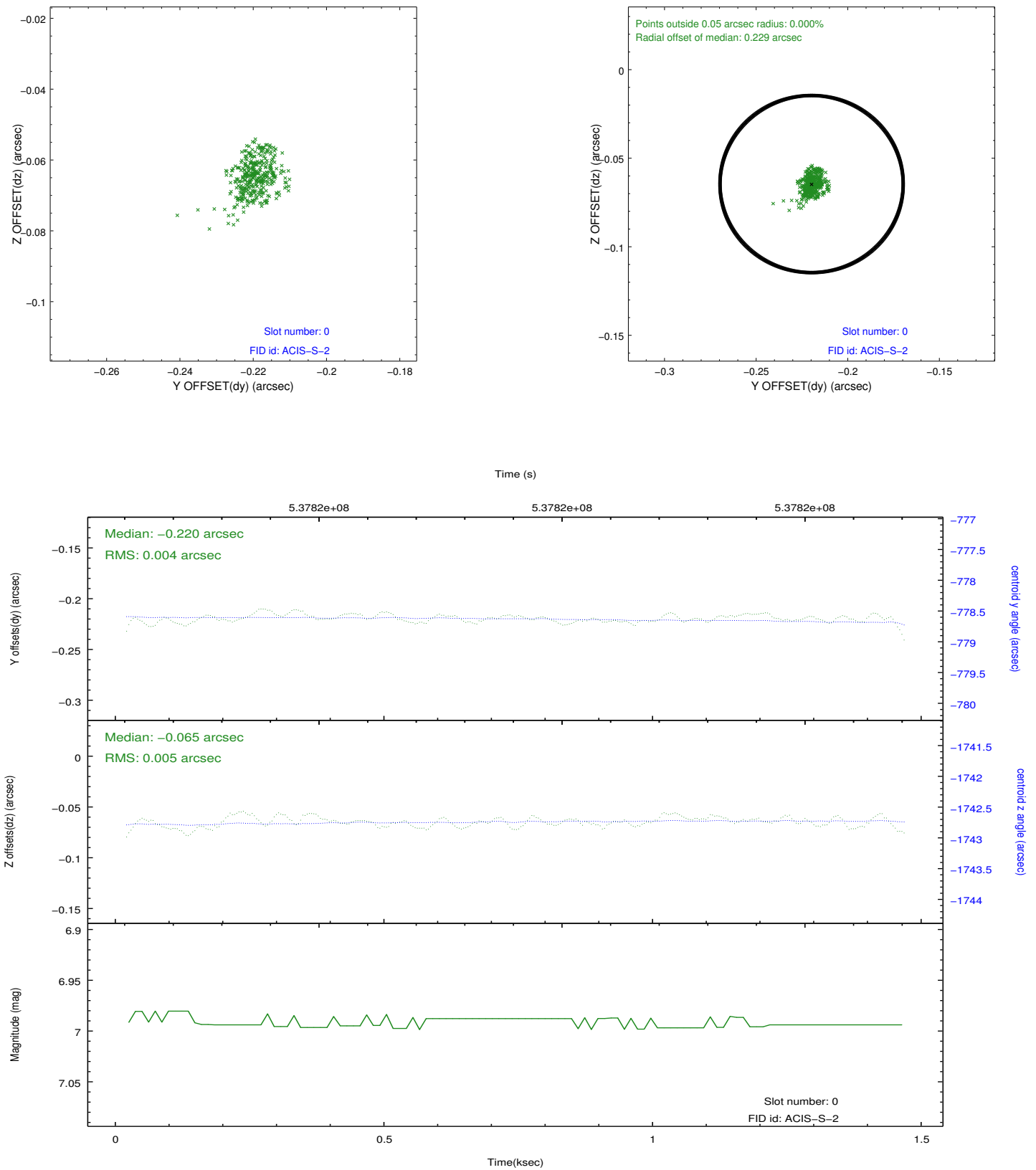


2.4.5 Slot 7

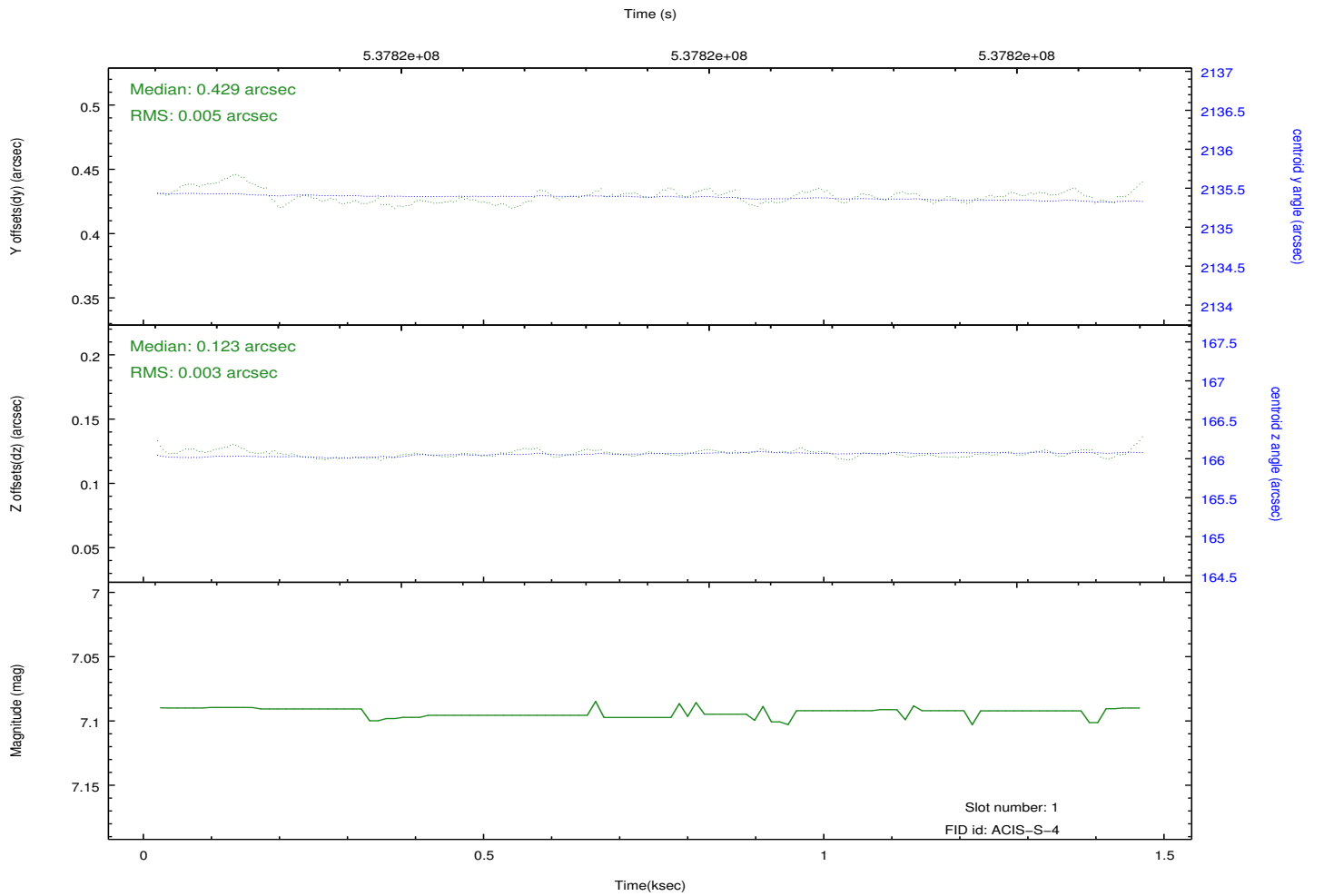
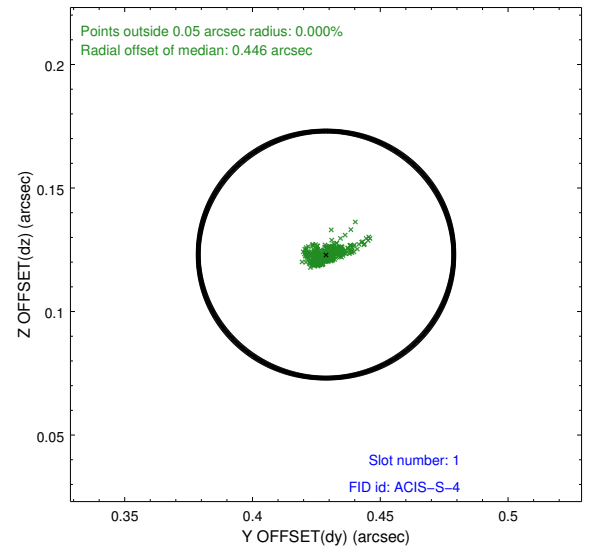
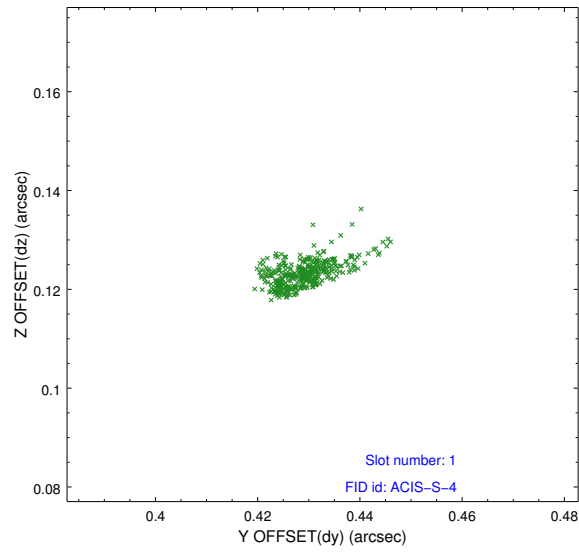


2.5 FID Slots

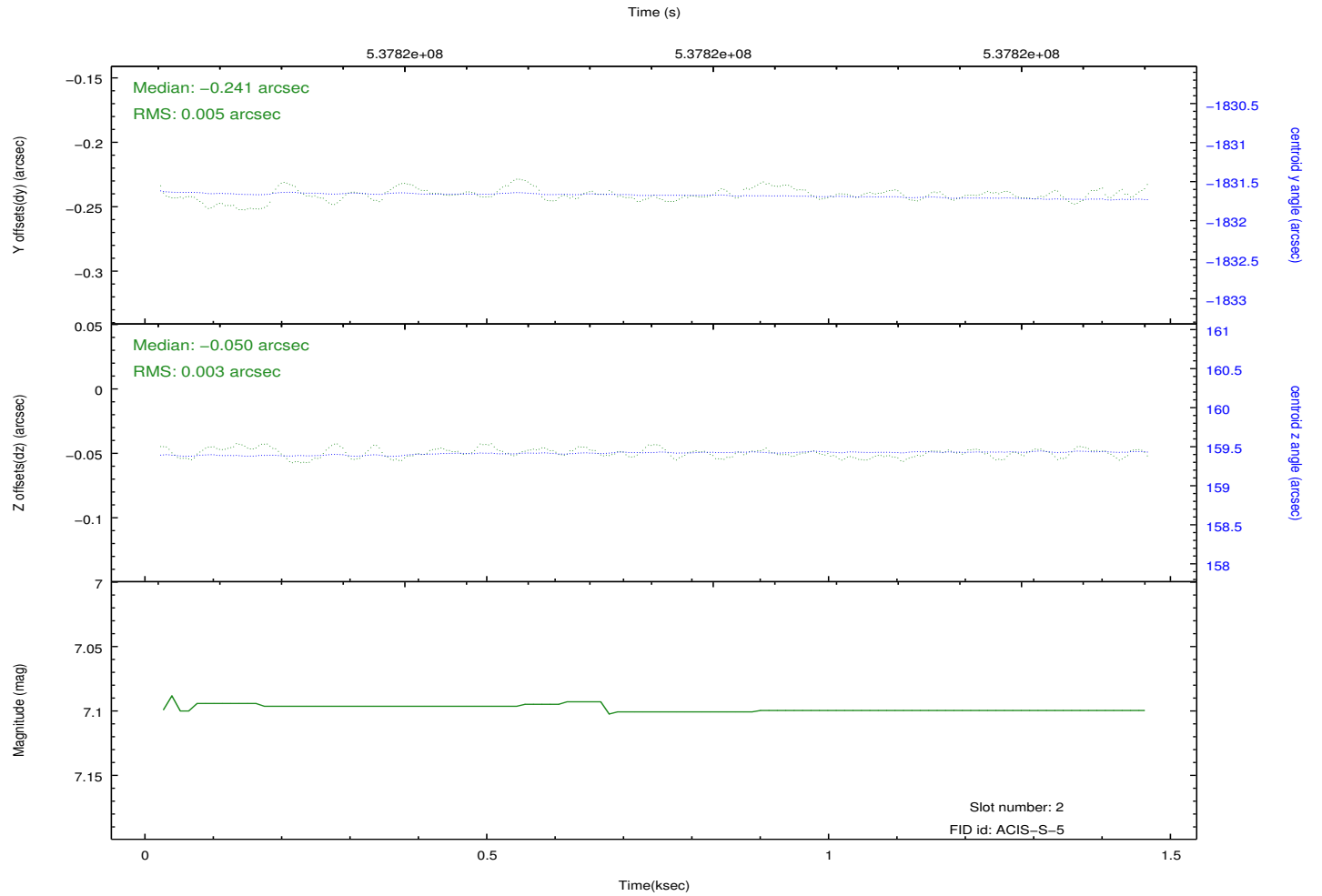
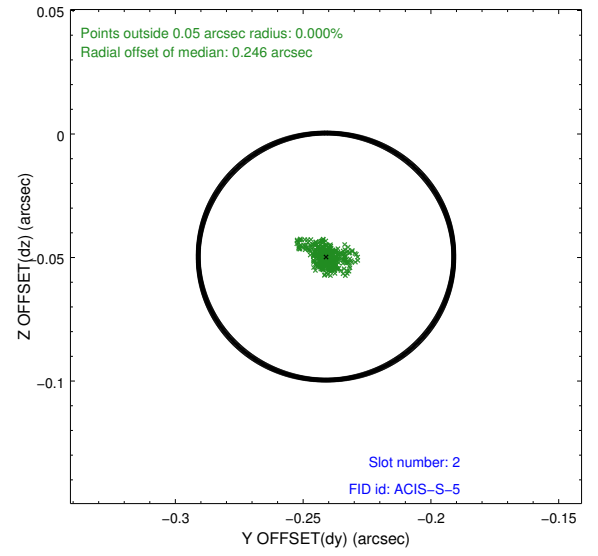
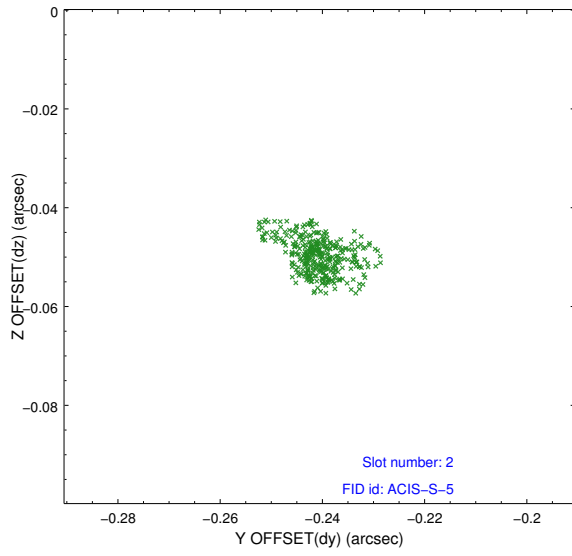
2.5.1 Slot 0



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)	2015.01.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.063300008297

A.2 Comments