

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 16981 - L2 Version 1
Chandra X-Ray Center

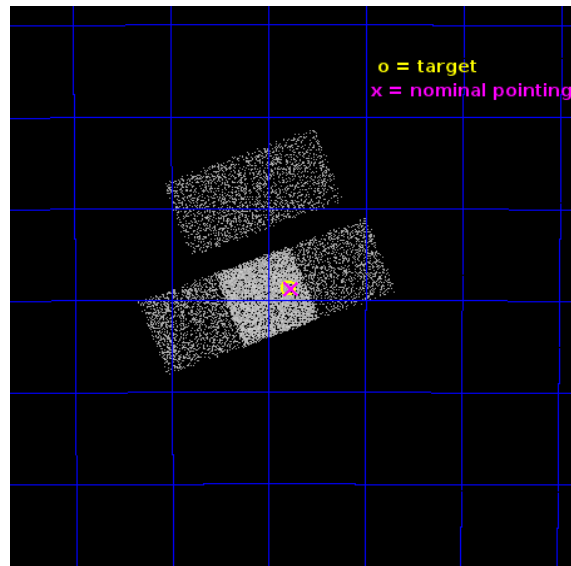
L2 Processing Date : Jun 12 2015

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1 Front

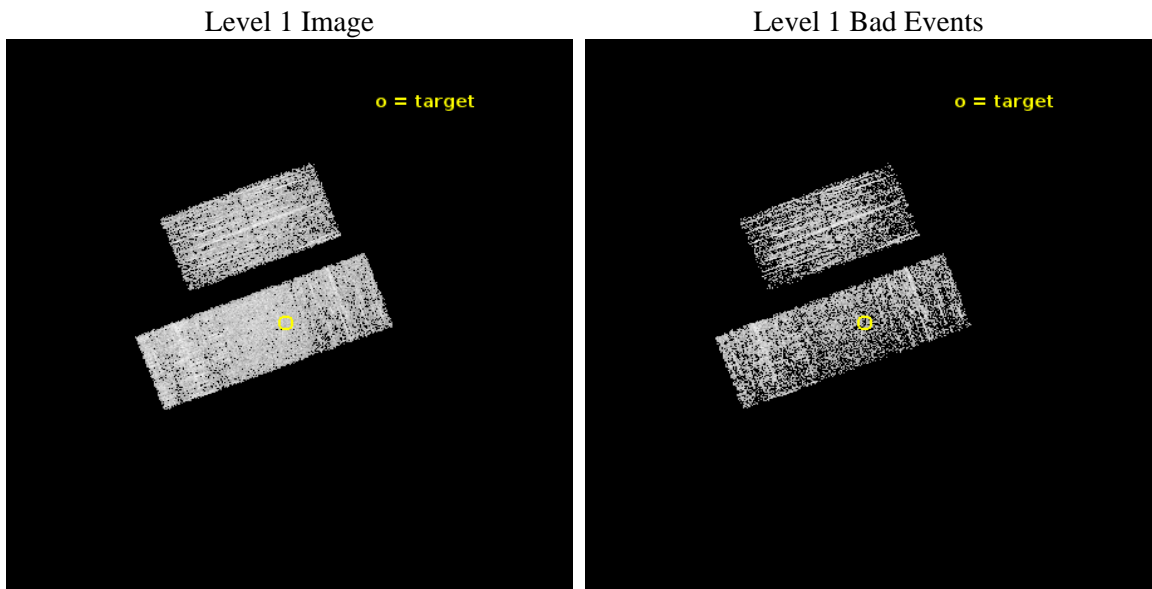
seq_num	601174	Sequence number
obs_id	16981	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	NGC1483	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	58.198333	Observer's specified target RA [deg]
dec_targ	-47.4775	Observer's specified target Dec [deg]
ra_nom	58.190810743344	Nominal RA [deg]
dec_nom	-47.479366216203	Nominal Dec [deg]
roll_nom	159.06405404508	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2544.9870921373	Sum of GTIs [s]
livetime	2511.7349621863	Livetime [s]
ontime2	2544.8229321241	Sum of GTIs [s]
ontime3	2544.9050121307	Sum of GTIs [s]
ontime6	2544.9460521936	Sum of GTIs [s]
ontime7	2544.9870921373	Sum of GTIs [s]
ontime8	2544.863972187	Sum of GTIs [s]
l2events	13582	Number of level 2 events



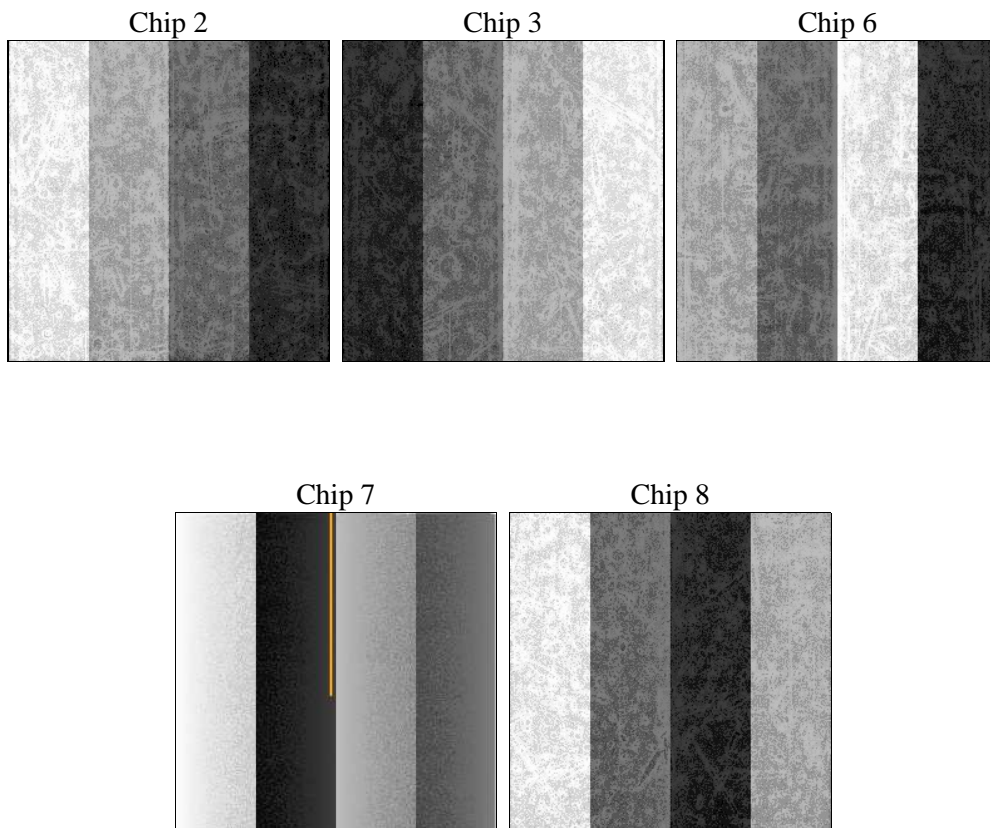
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	2544.9870921373	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	2544.8229321241	Sum of GTIs [s]
date	2015-06-13T00:06:31	Date and time of file creation	ontime3	2544.9050121307	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	2544.9460521936	Sum of GTIs [s]
			ontime7	2544.9870921373	Sum of GTIs [s]
			ontime8	2544.863972187	Sum of GTIs [s]
			l1events	78042	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	13824	13469	13105	17989	19655
rejected events	12277	11989	11451	9953	13949
rejected %	88%	89%	87%	55%	70%

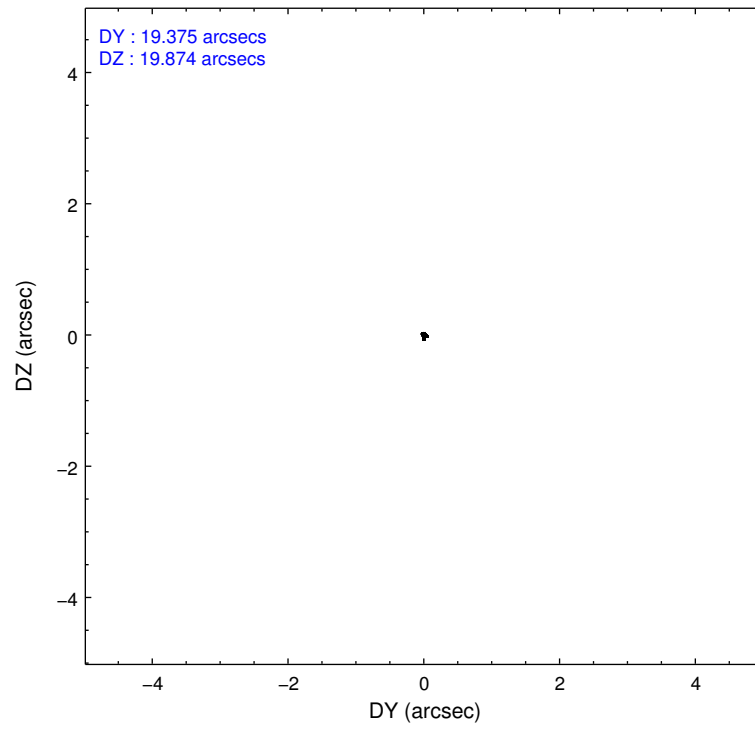
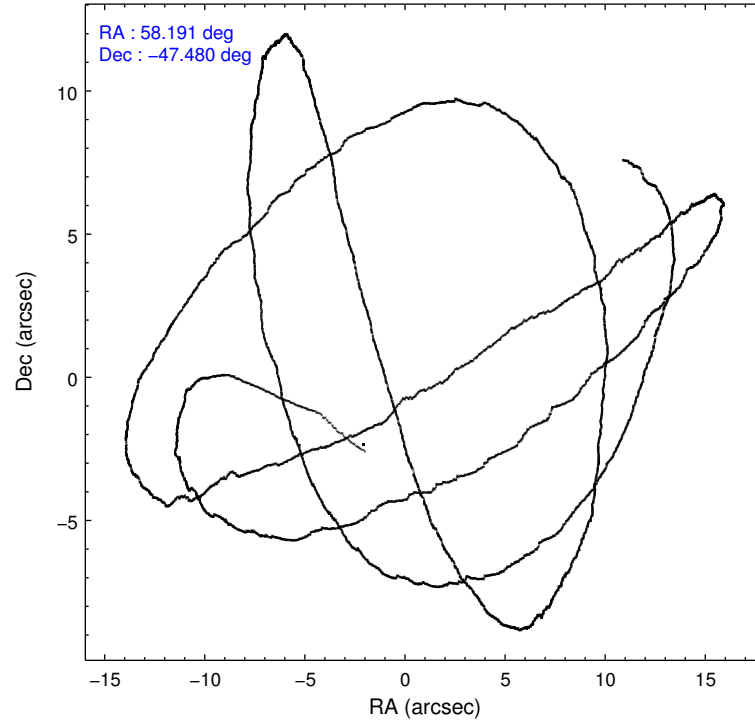
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	553	526	549	707	1653
	4%	3%	4%	3%	8%
grade 1 events	12	4	8	14	17
	0%	0%	0%	0%	0%
grade 2 events	356	317	373	1668	1316
	2%	2%	2%	9%	6%
grade 3 events	154	152	181	725	639
	1%	1%	1%	4%	3%
grade 4 events	166	164	165	670	571
	1%	1%	1%	3%	2%
grade 5 events	625	647	673	1835	1076
	4%	4%	5%	10%	5%
grade 6 events	322	328	392	4288	1536
	2%	2%	2%	23%	7%
grade 7 events	11636	11331	10764	8082	12847
	84%	84%	82%	44%	65%

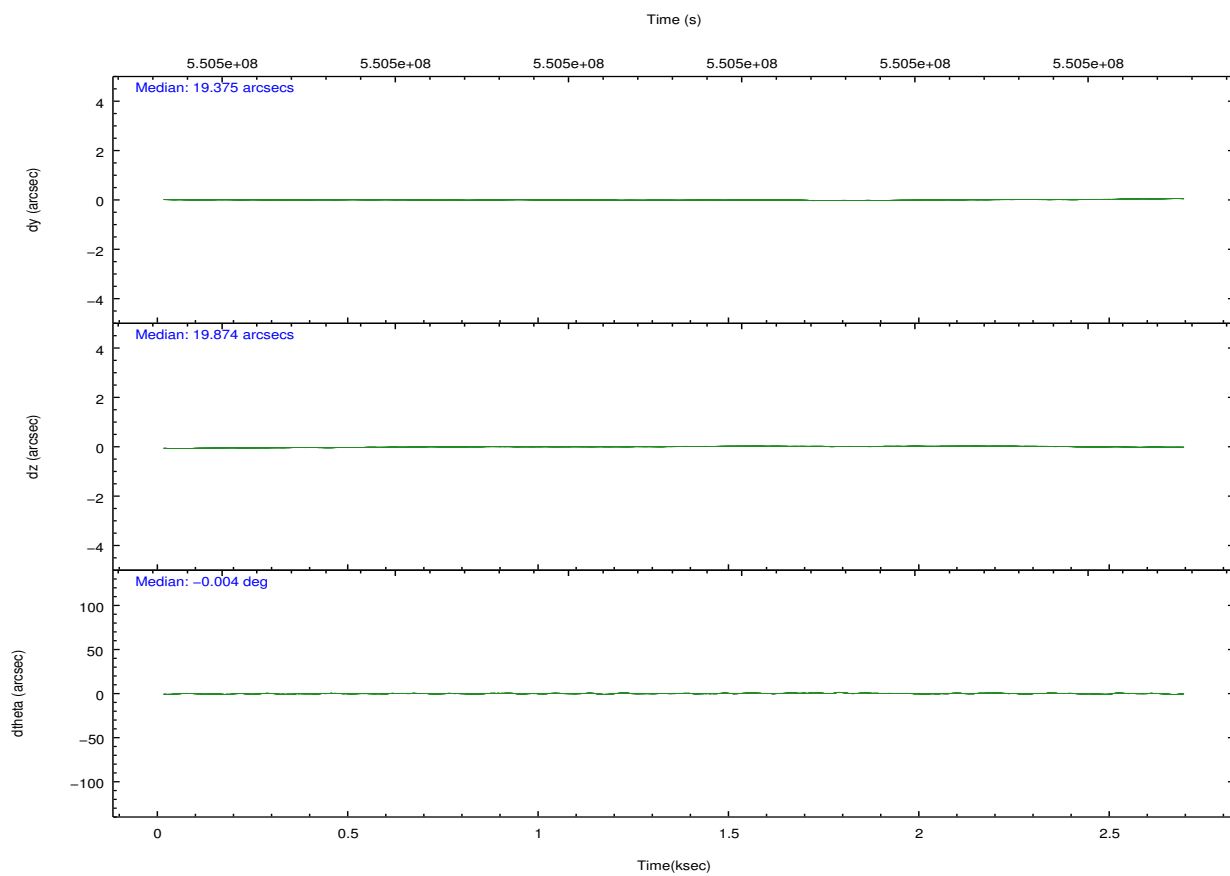
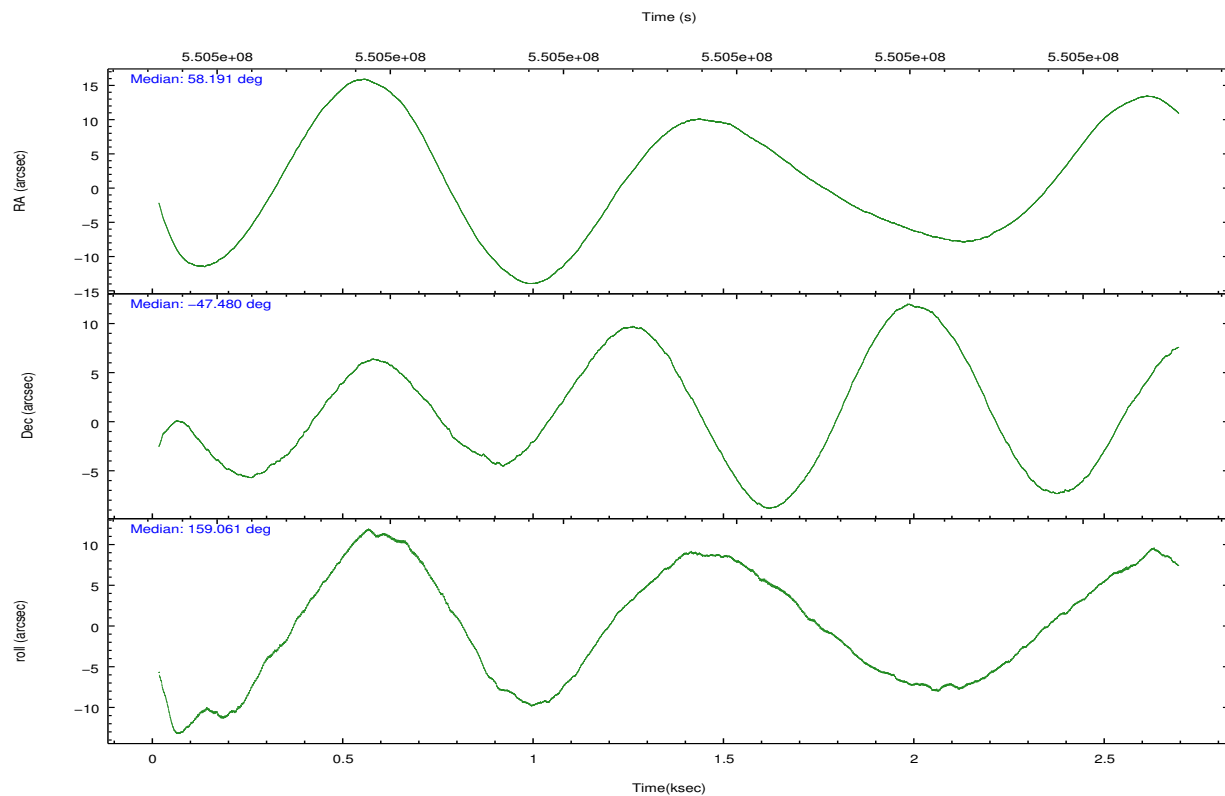
2.2 Compared Parameters

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	58.230691	58.19081074334389
[deg] Pointing Dec	-47.474502	-47.47936621620335
[deg] Pointing Roll	158.936815	159.0640540450801
[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)	550497156.184000	550496168.7001899
Observation start date	2015-06-12T11:51:29	2015-06-12T11:36:08
[s] Observation end time (MET)	550499656.184000	550500649.48794
Observation end date	2015-06-12T12:33:09	2015-06-12T12:50:49
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



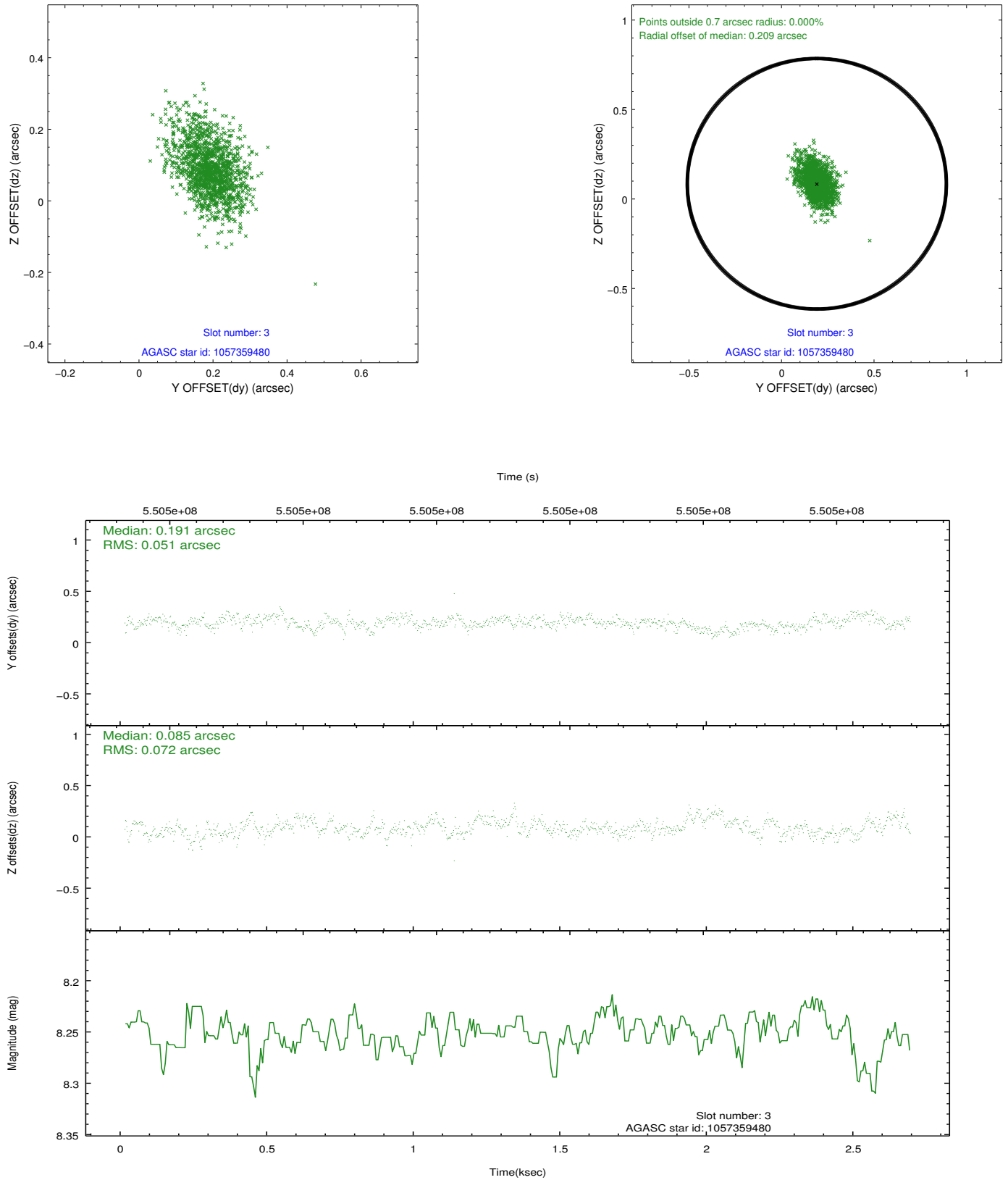


Slot Statistics

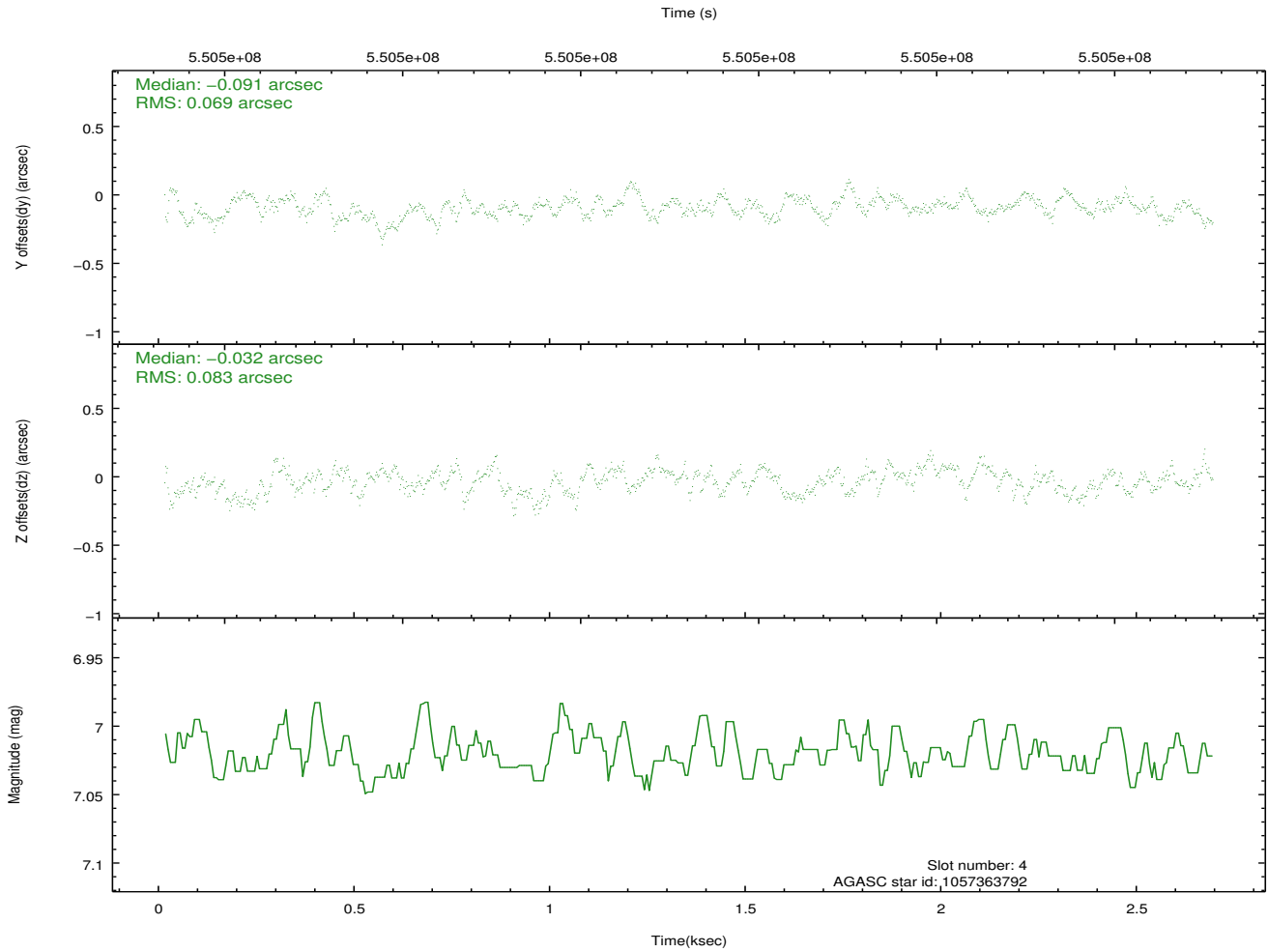
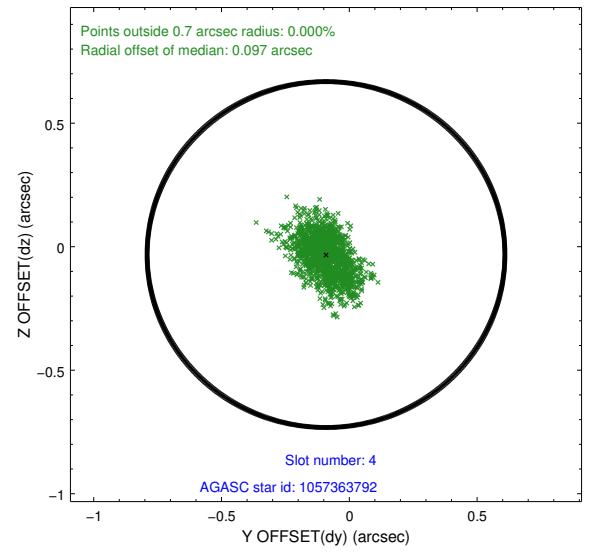
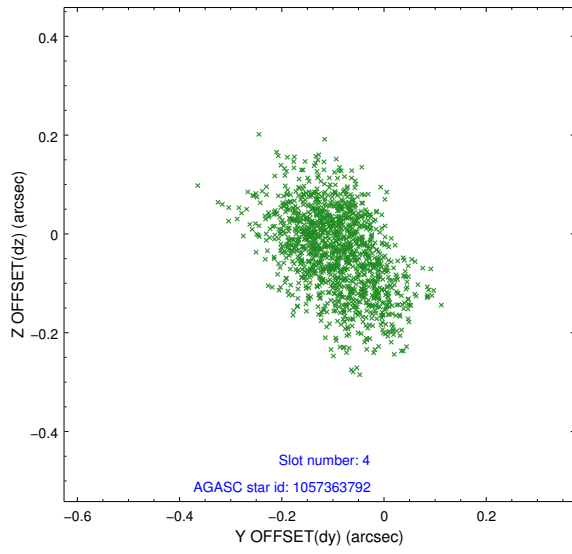
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	654	-0.138	-0.027	0.006	0.011	0.000000	0.000000	-772.60	-1741.36
1	FID		ACIS-S-4	7.02	654	0.310	0.074	0.005	0.009	0.000000	0.000000	2140.01	164.73
2	FID		ACIS-S-5	7.03	654	-0.203	-0.038	0.006	0.011	0.000000	0.000000	-1822.44	161.02
3	GUIDE	used	1057359480	8.25	1308	0.191	0.085	0.093	0.158	58.767661	-47.169515	-832.16	-1492.95
4	GUIDE	used	1057363792	7.02	1308	-0.091	-0.032	0.114	0.192	57.924225	-47.316857	901.38	-261.48
5	GUIDE	used	1057365856	9.81	1305	0.086	-0.015	0.224	0.520	57.706974	-46.642863	2284.52	-2325.17
6	GUIDE	used	1057370064	9.54	1306	-0.013	0.359	0.152	0.244	58.398270	-46.828632	453.02	-2319.74
7	GUIDE	used	1057753128	9.73	1304	-0.202	-0.382	0.200	0.331	57.012669	-47.769010	2361.79	2067.60

2.4 Star Slots

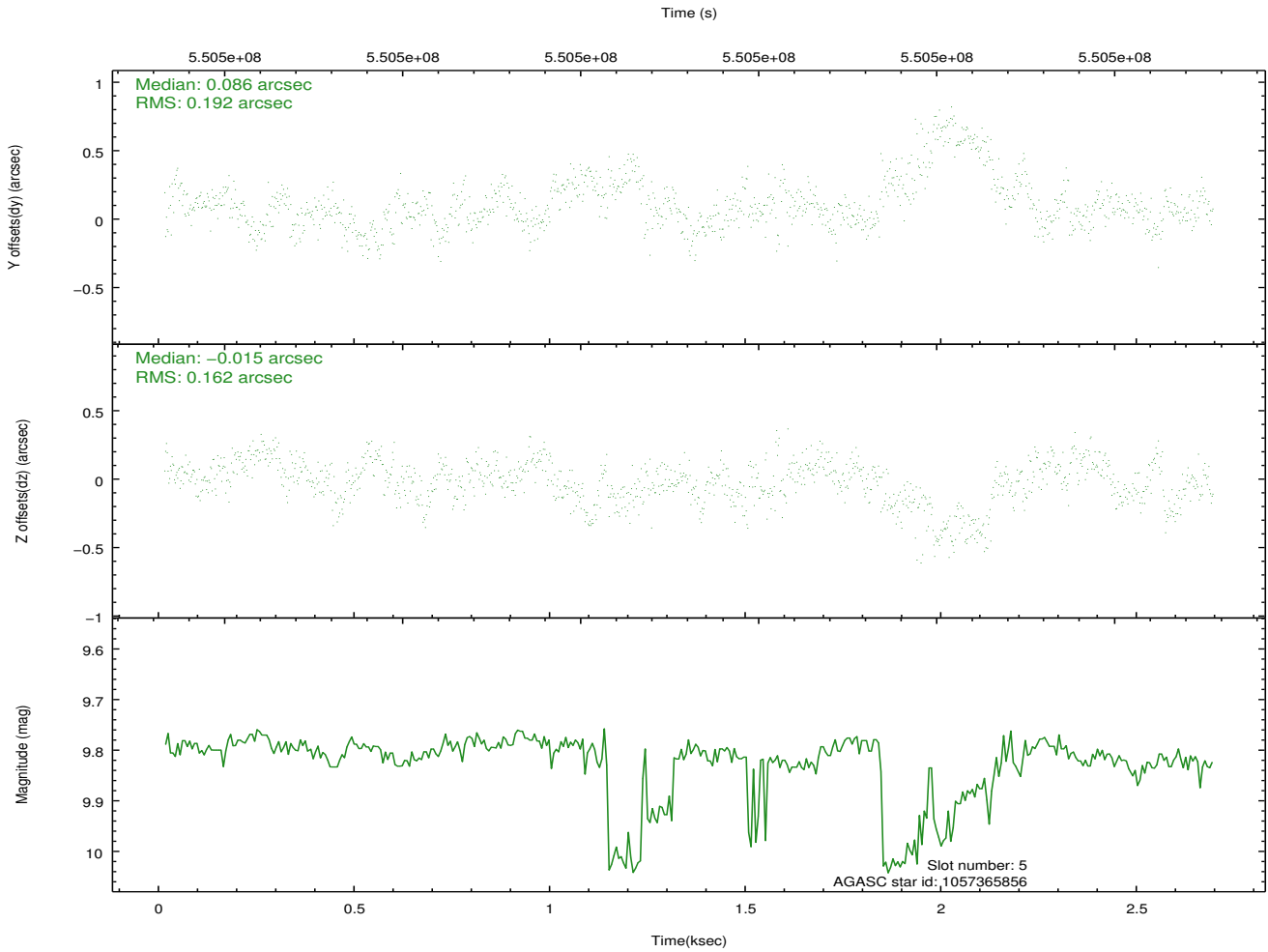
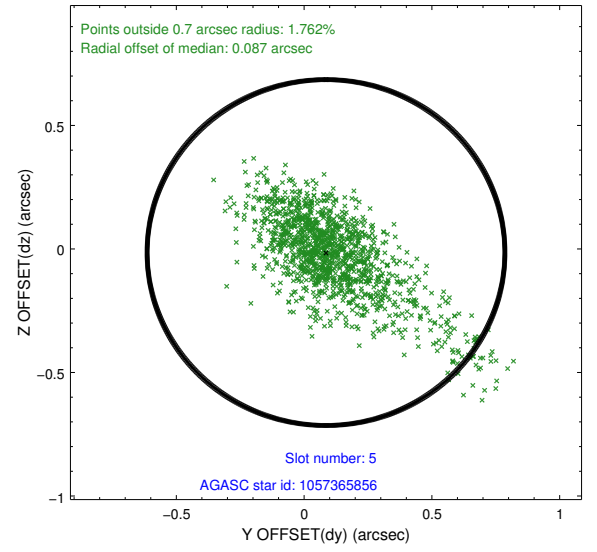
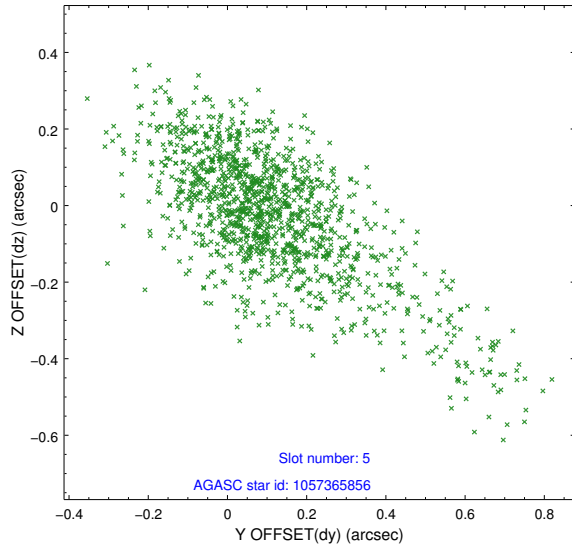
2.4.1 Slot 3



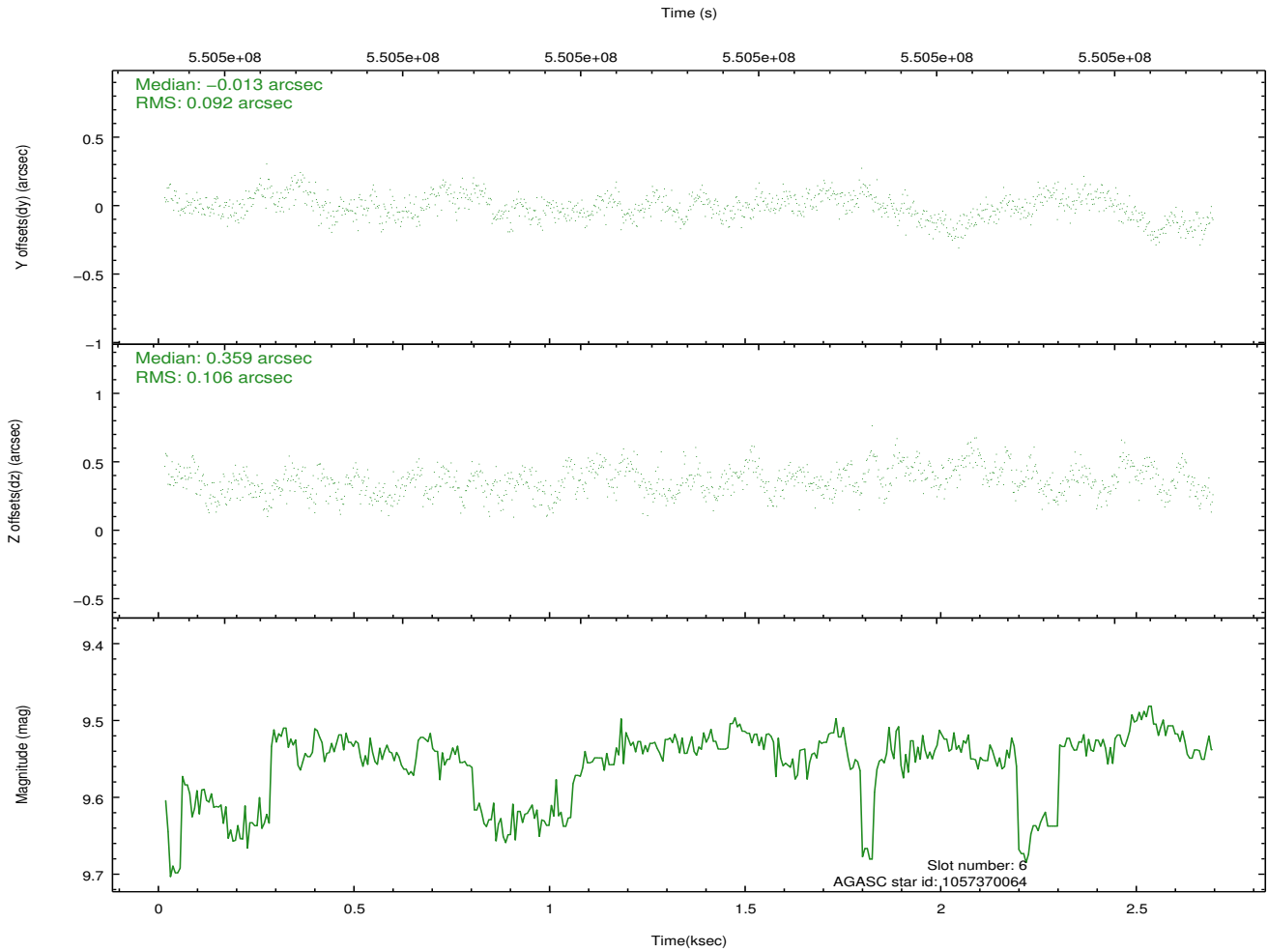
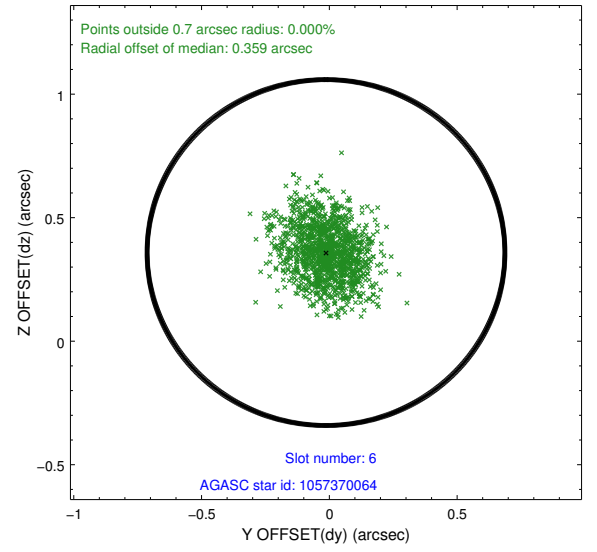
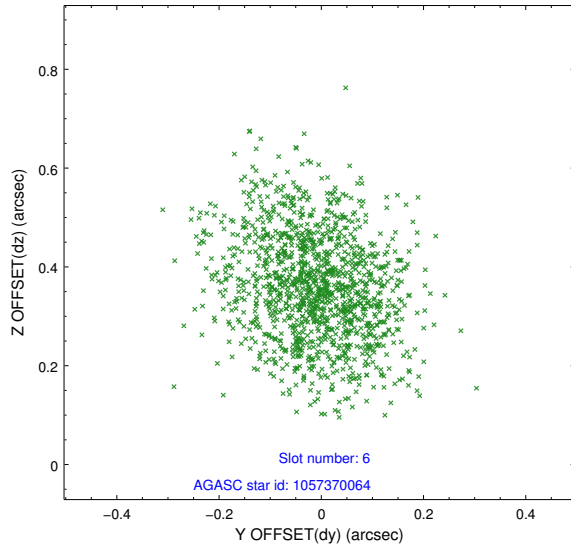
2.4.2 Slot 4



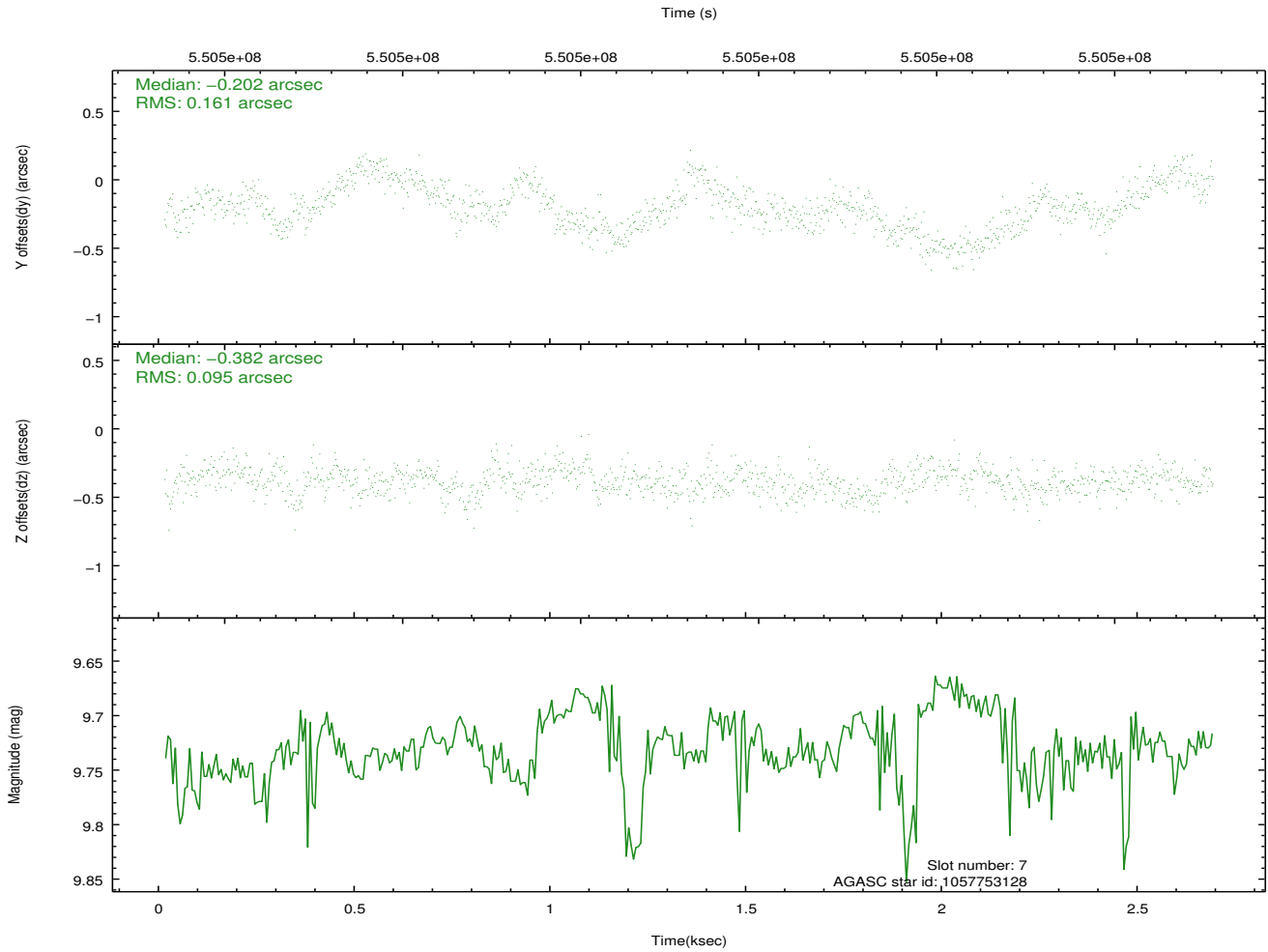
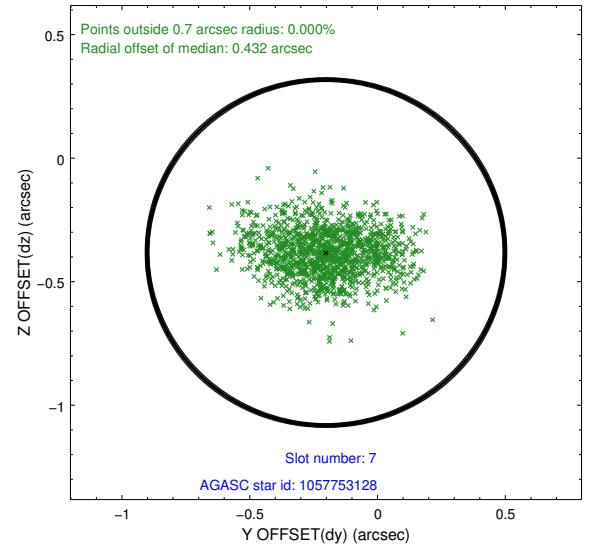
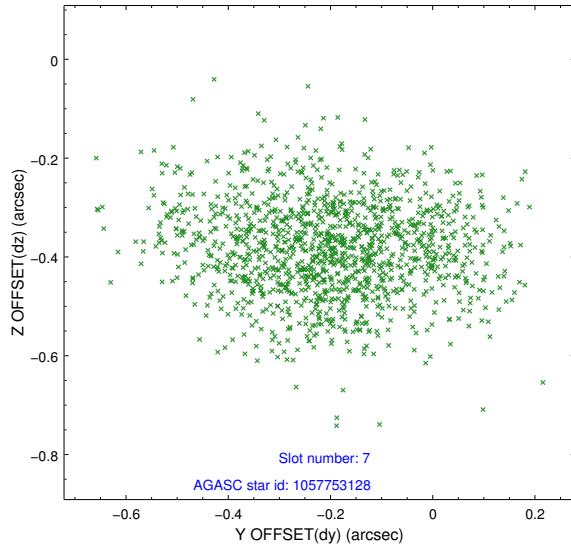
2.4.3 Slot 5



2.4.4 Slot 6

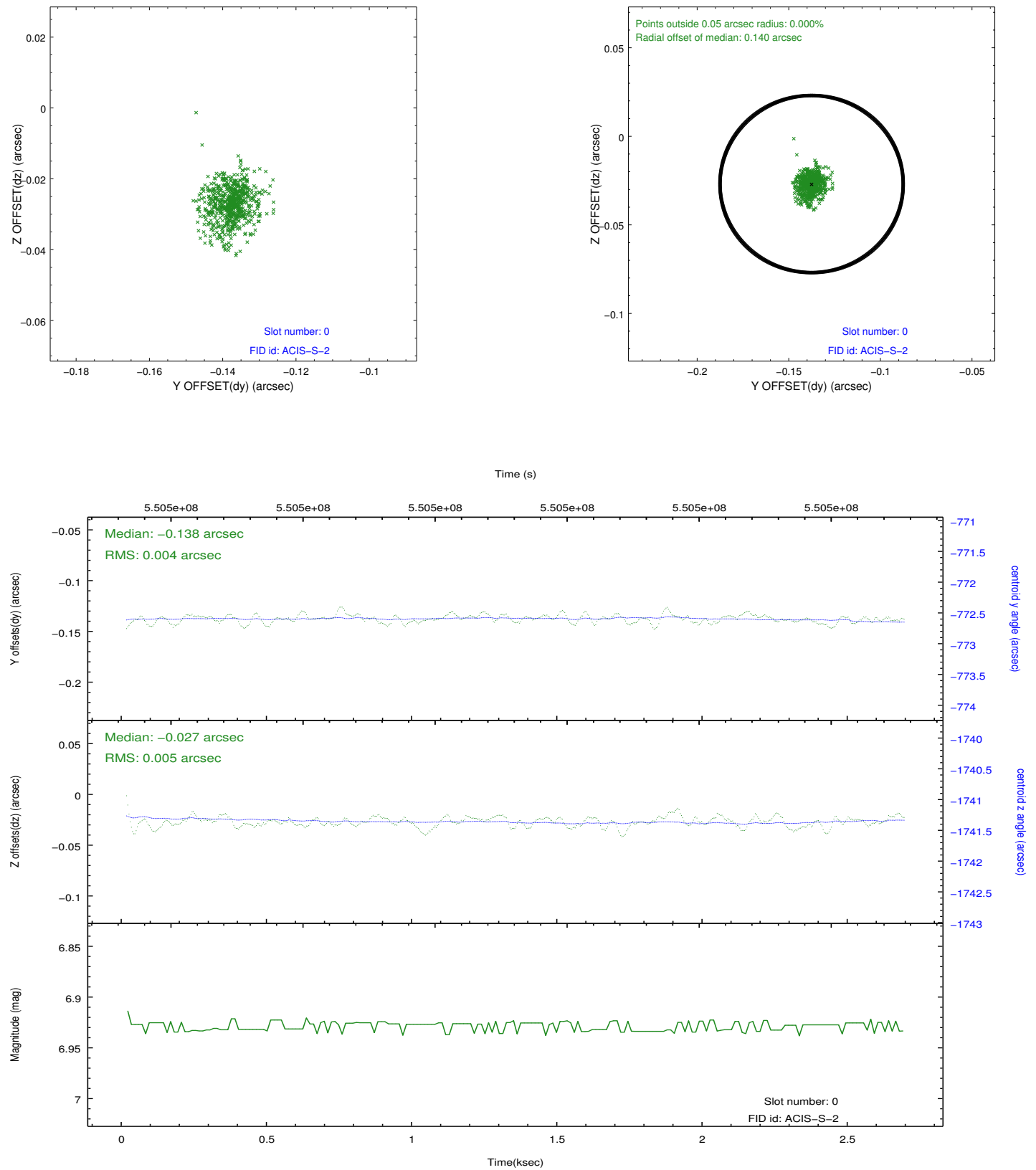


2.4.5 Slot 7

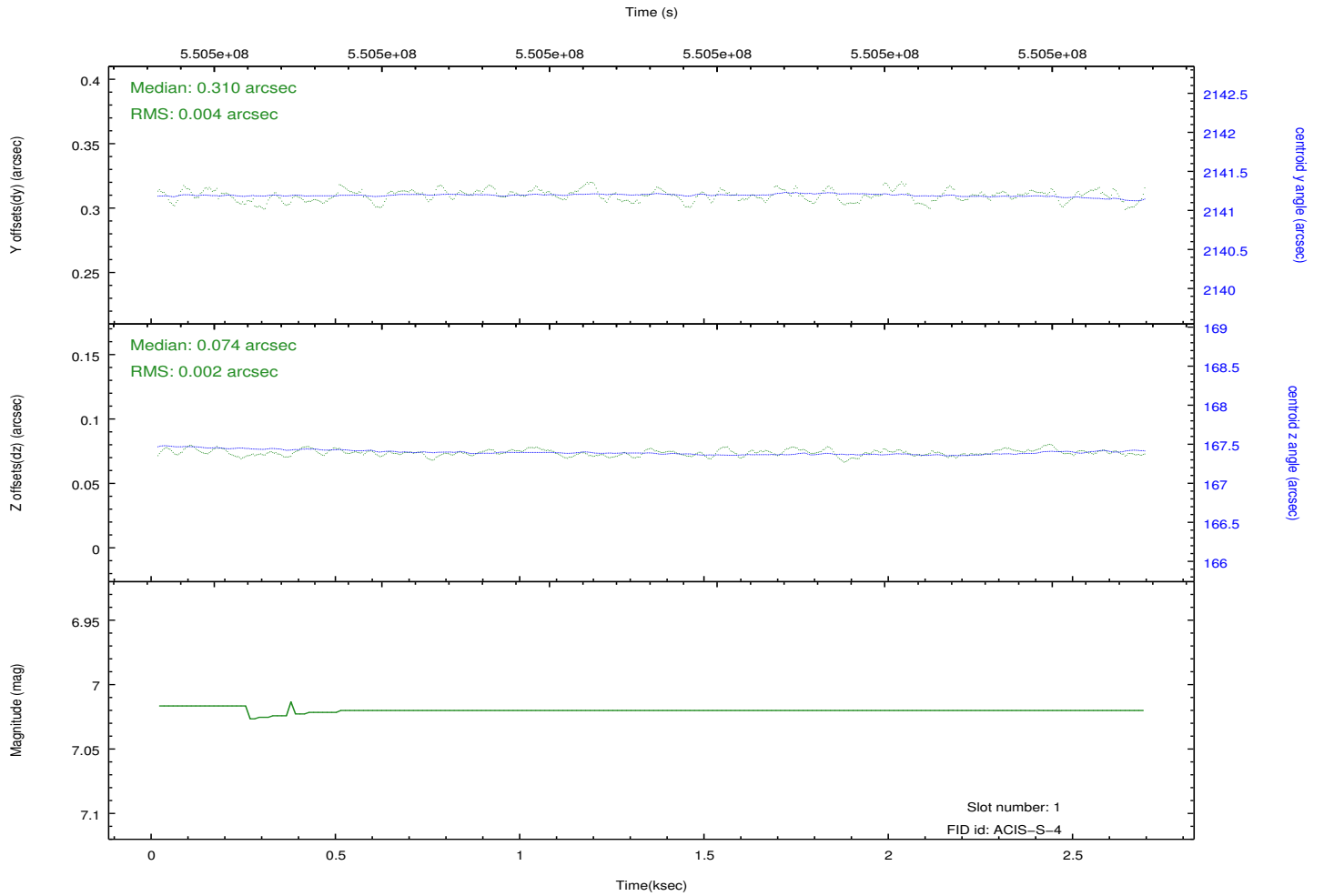
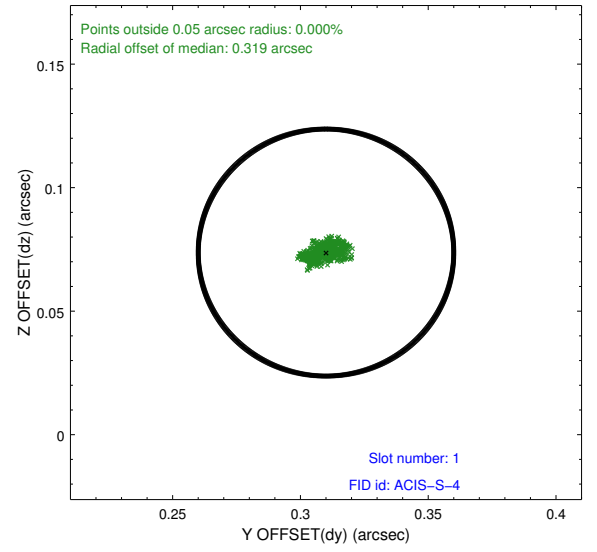
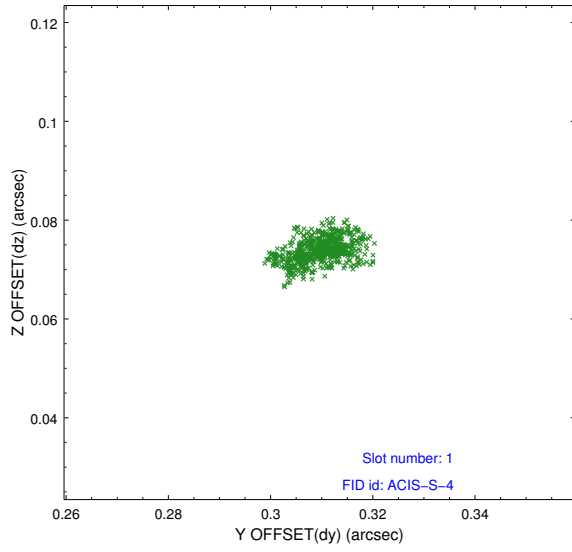


2.5 FID Slots

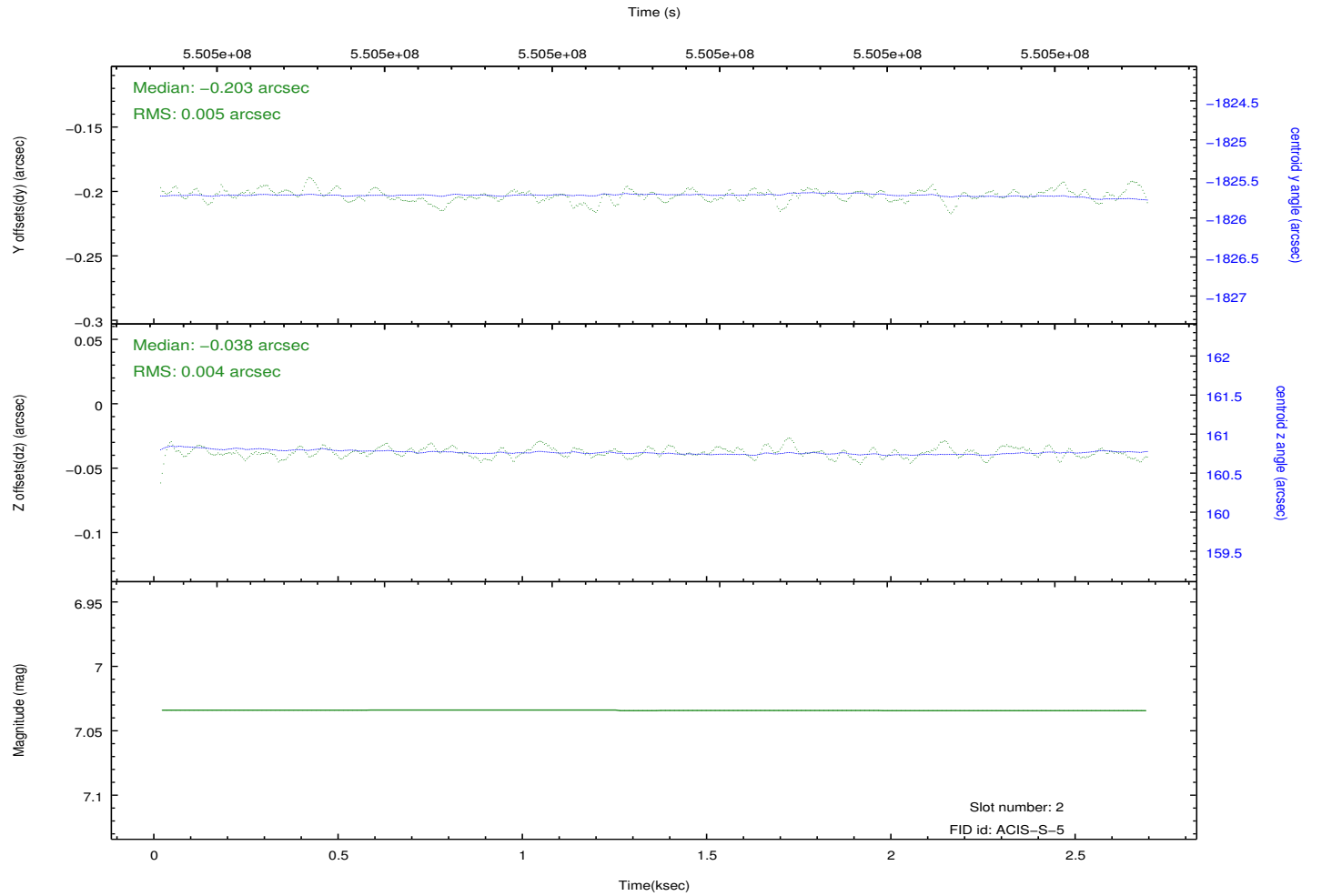
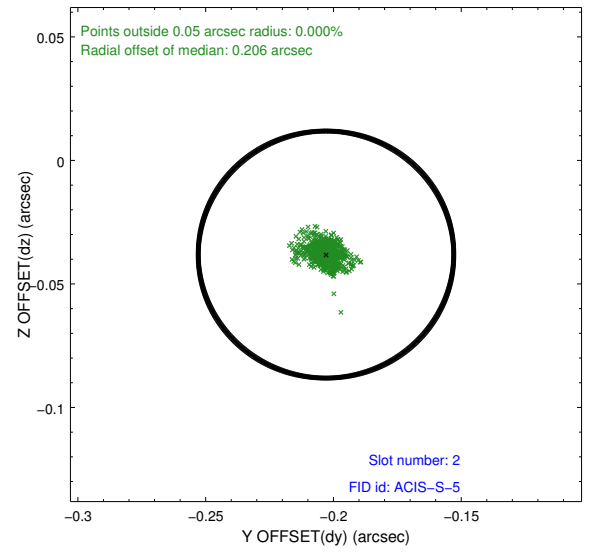
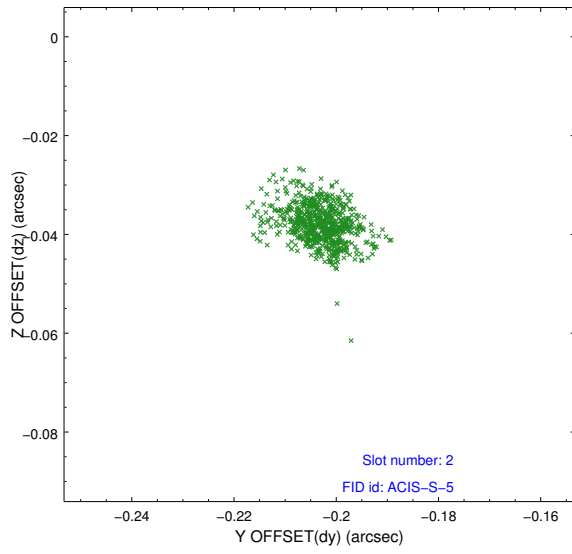
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.5449870921373

A.2 Comments