

V&V Reference Report

L2 ASCDS Version : 10.4

Observation 17242 - L2 Version 1
Chandra X-Ray Center

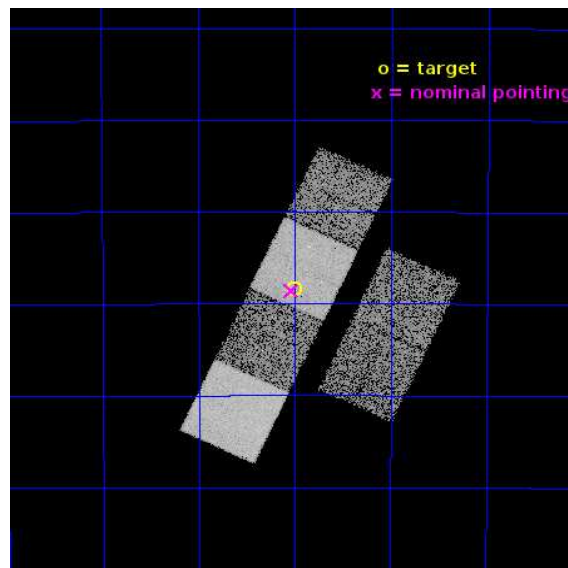
L2 Processing Date : Jul 4 2015

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1 Front

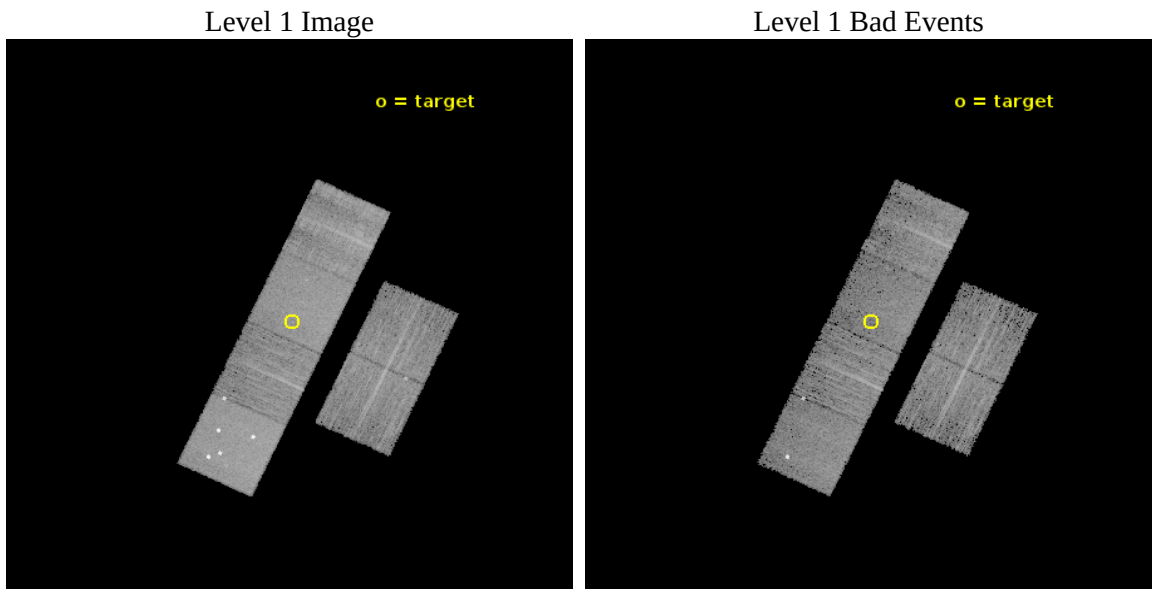
seq_num	901138	Sequence number
obs_id	17242	Observation id
title	Localizing NuSTAR-Discovered Sources in the Galactic Plane	Proposa
observer	Dr. John Tomsick	Principal investigator
object	NuSTAR J163600-4748.4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	249.00125	Observer's specified target RA [deg]
dec_targ	-47.807611	Observer's specified target Dec [deg]
ra_nom	249.00860219248	Nominal RA [deg]
dec_nom	-47.809953192624	Nominal Dec [deg]
roll_nom	295.16207059157	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9958.4001483917	Sum of GTIs [s]
livetime	9832.3008894841	Livetime [s]
ontime2	9958.4001483917	Sum of GTIs [s]
ontime3	9958.4001483917	Sum of GTIs [s]
ontime5	9958.4001483917	Sum of GTIs [s]
ontime6	9958.4001483917	Sum of GTIs [s]
ontime7	9958.4001483917	Sum of GTIs [s]
ontime8	9958.4001483917	Sum of GTIs [s]
l2events	90576	Number of level 2 events



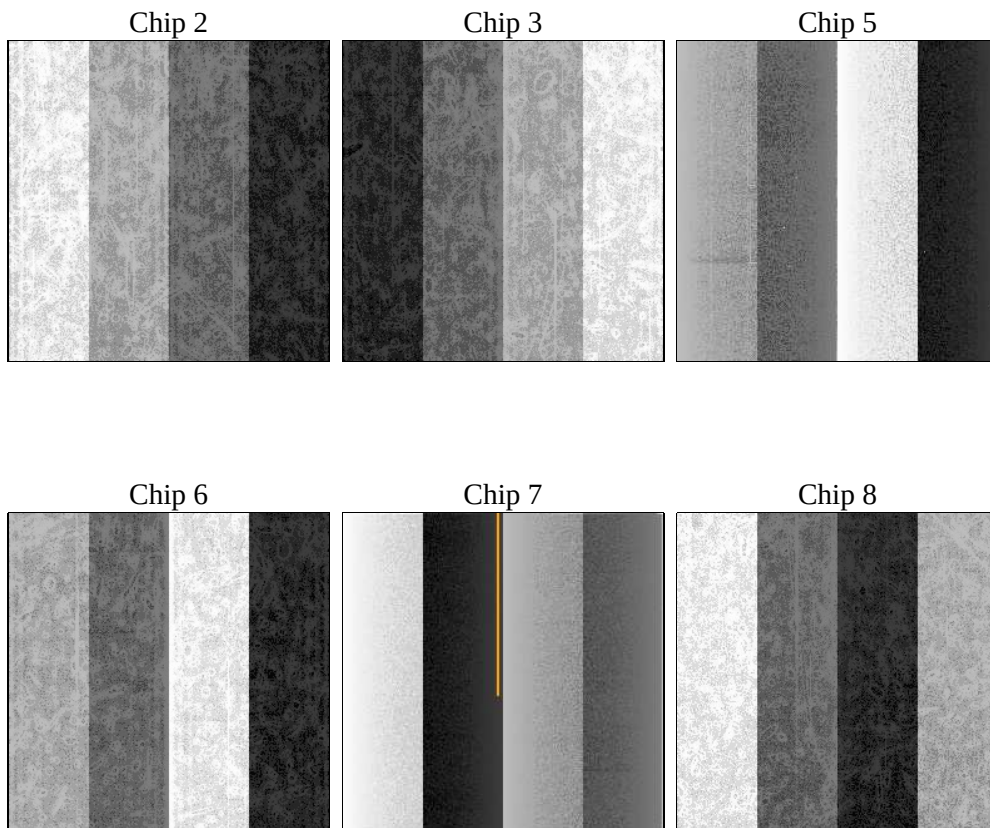
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	9958.4001483917	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	9958.4001483917	Sum of GTIs [s]
date	2015-07-04T23:10:53	Date and time of file creation	ontime3	9958.4001483917	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	9958.4001483917	Sum of GTIs [s]
			ontime6	9958.4001483917	Sum of GTIs [s]
			ontime7	9958.4001483917	Sum of GTIs [s]
			ontime8	9958.4001483917	Sum of GTIs [s]
			l1events	388464	Number of level 1 events

2.1.4 Events

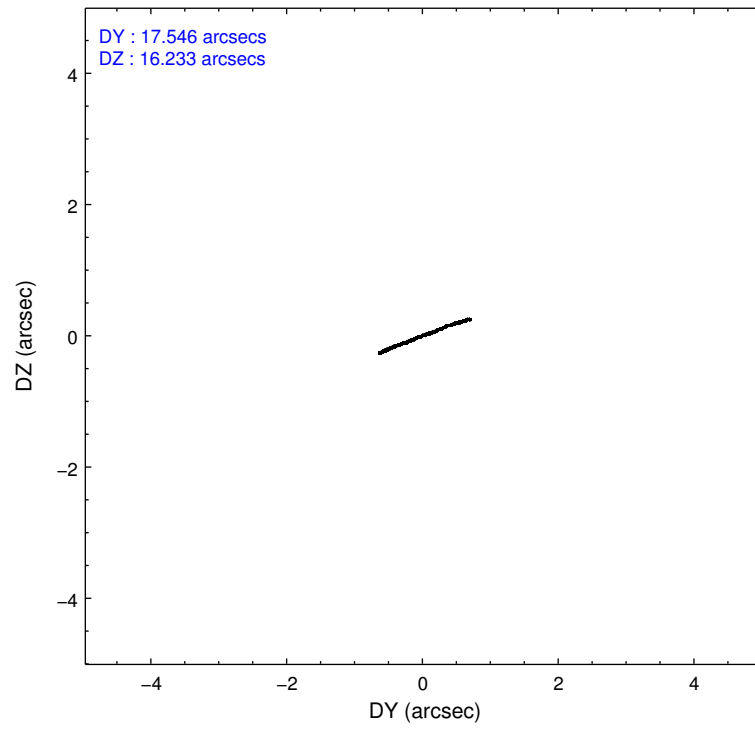
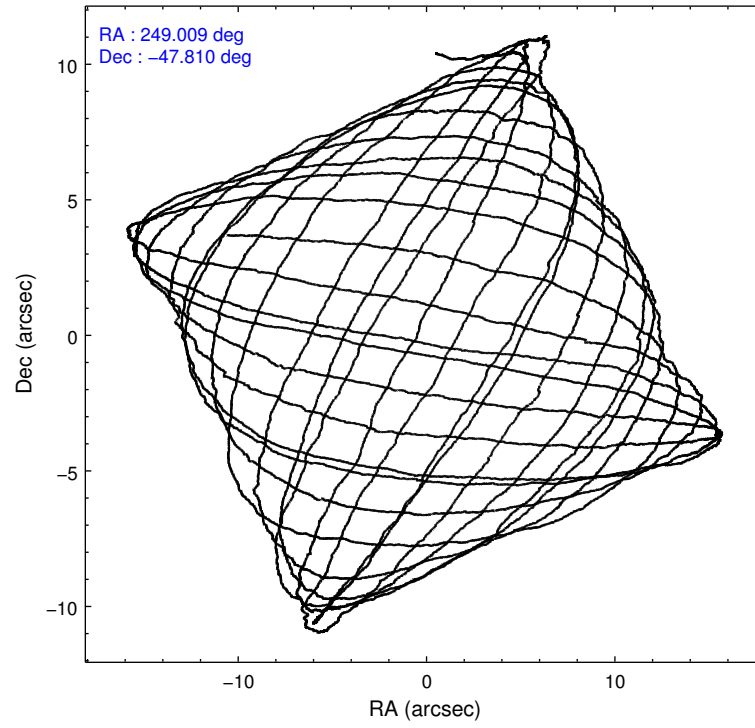
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	52191	49378	95312	53051	70276	68256	grade 0 events	2294	2367	11018	2458	2669	6075
rejected events	45828	43246	46809	46499	39683	48580		4%	4%	11%	4%	3%	8%
rejected %	87%	87%	49%	87%	56%	71%	grade 1 events	38	28	724	29	102	65
								0%	0%	0%	0%	0%	0%
							grade 2 events	1672	1282	12826	1429	6497	4324
								3%	2%	13%	2%	9%	6%
							grade 3 events	593	668	1295	619	2397	2266
								1%	1%	1%	1%	3%	3%
							grade 4 events	643	624	1244	598	2343	2192
								1%	1%	1%	1%	3%	3%
							grade 5 events	2264	2607	6231	2555	6979	3733
								4%	5%	6%	4%	9%	5%
							grade 6 events	1163	1195	22135	1451	16699	4821
								2%	2%	23%	2%	23%	7%
							grade 7 events	43524	40607	39839	43912	32590	44780
								83%	82%	41%	82%	46%	65%

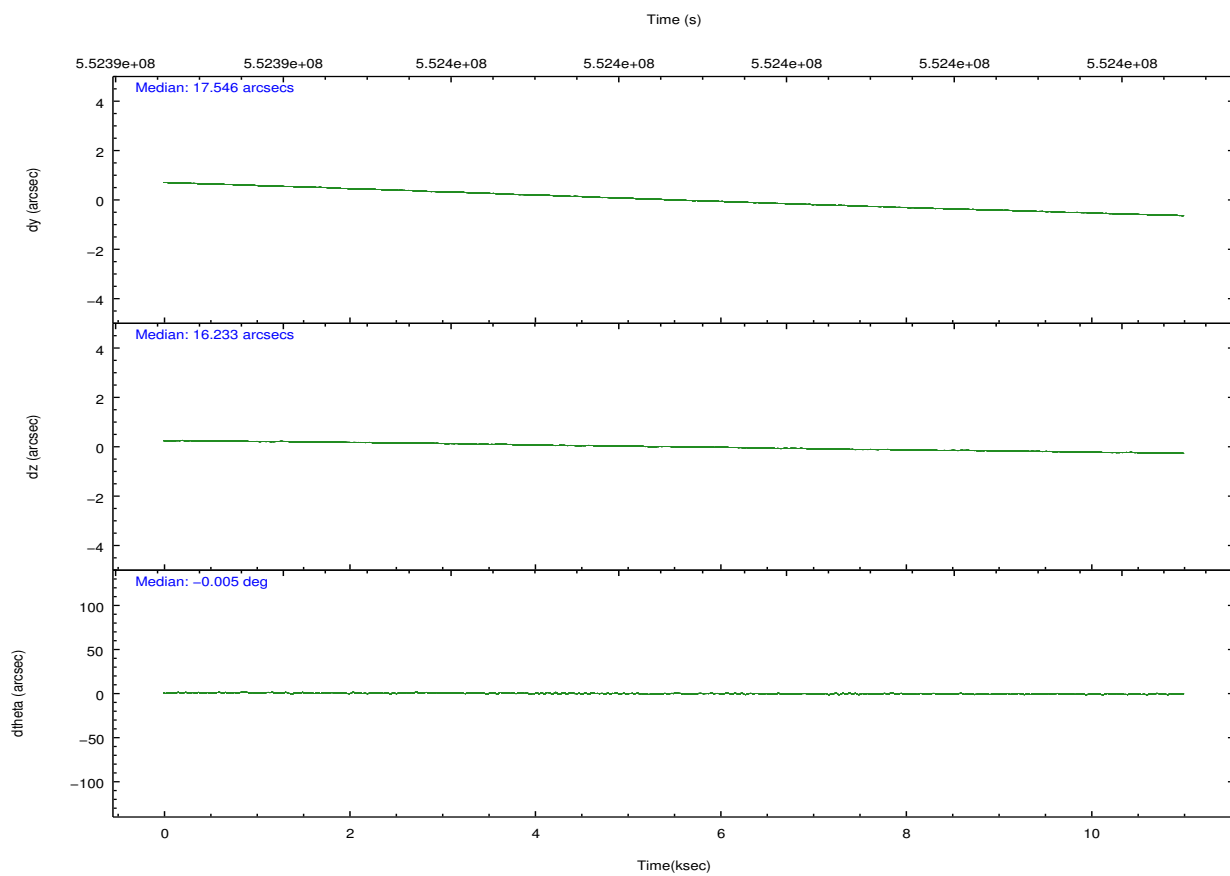
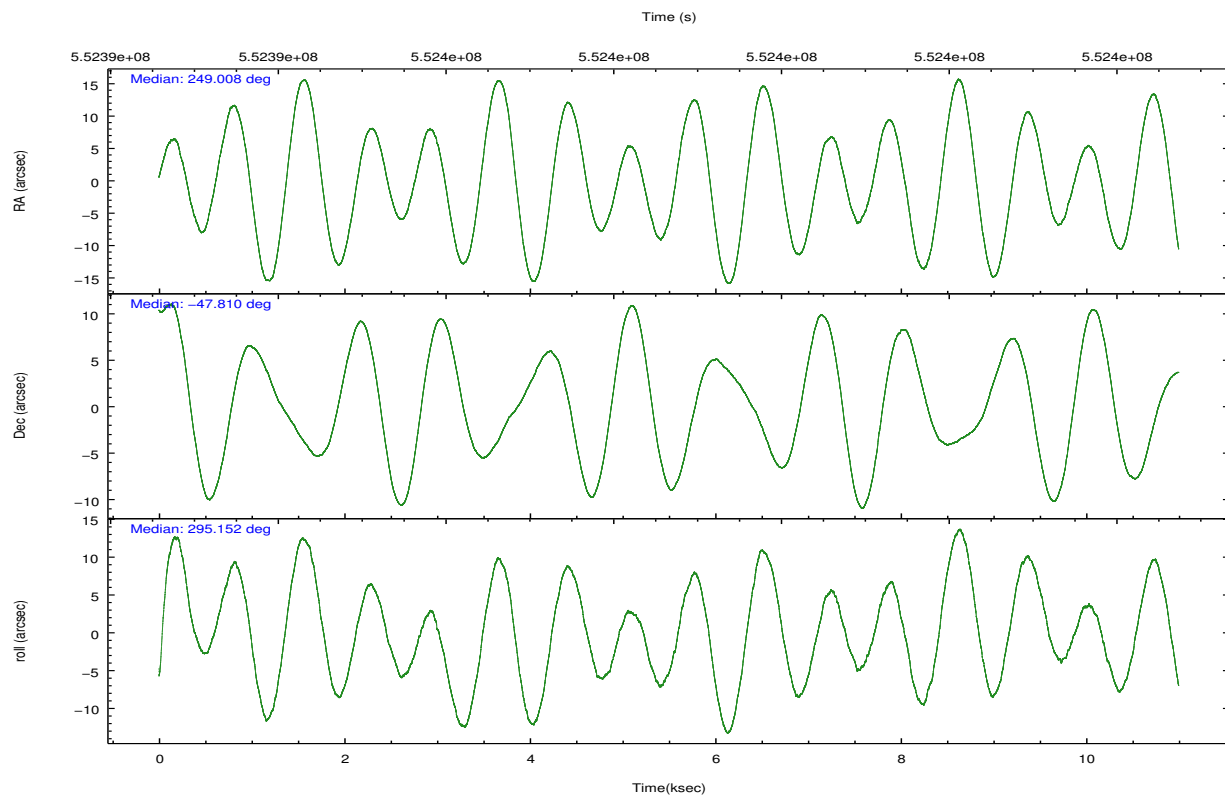
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	248.974696	249.0086021924757
[deg] Pointing Dec	-47.794597	-47.80995319262404
[deg] Pointing Roll	294.980325	295.1620705915688
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.145094680475
[mm] SIM translation stage offset	0	0.01257209746719923
[s] Observation start time (MET)	552394144.184000	552392774.99435
Observation start date	2015-07-04T10:47:56	2015-07-04T10:26:14
[s] Observation end time (MET)	552404144.184000	552405558.7950701
Observation end date	2015-07-04T13:34:36	2015-07-04T13:59:18
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	Y	Y
CCD S0 on	N	N
CCD S1 on	O1	Y
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	3.2

2.3 Aspect



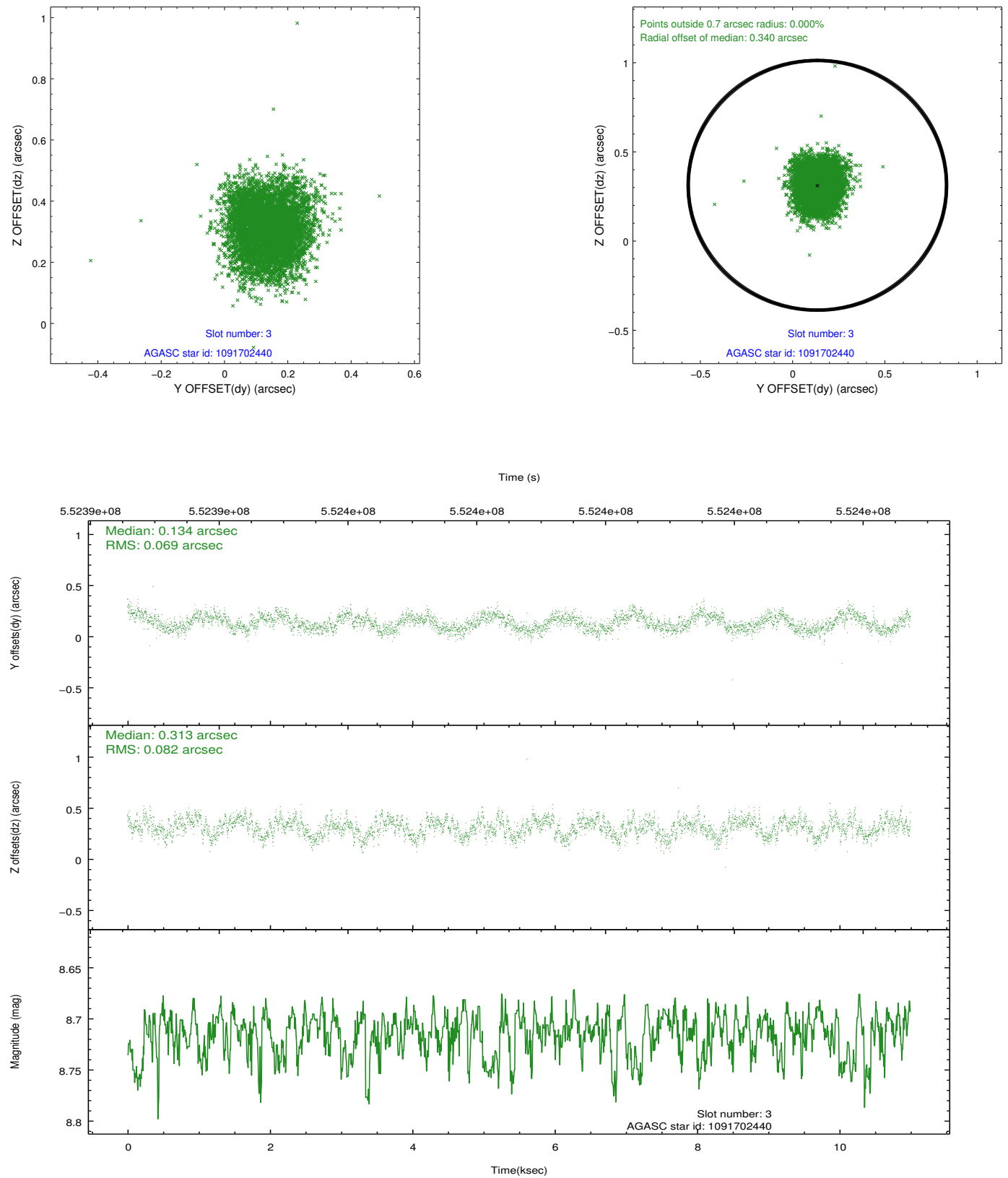


Slot Statistics

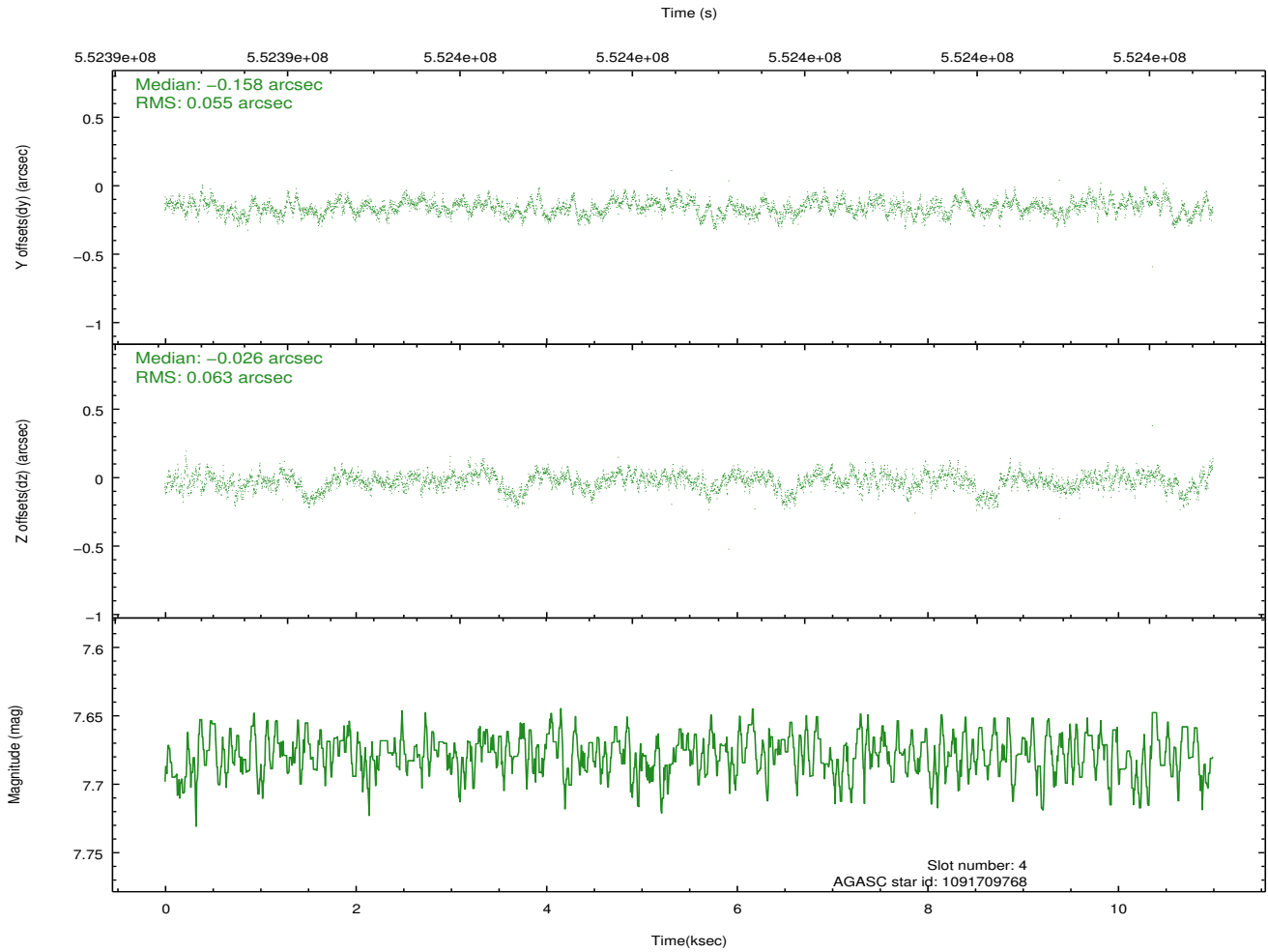
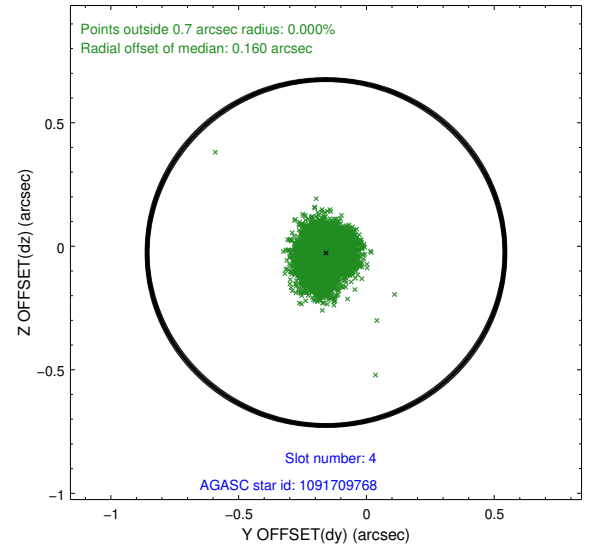
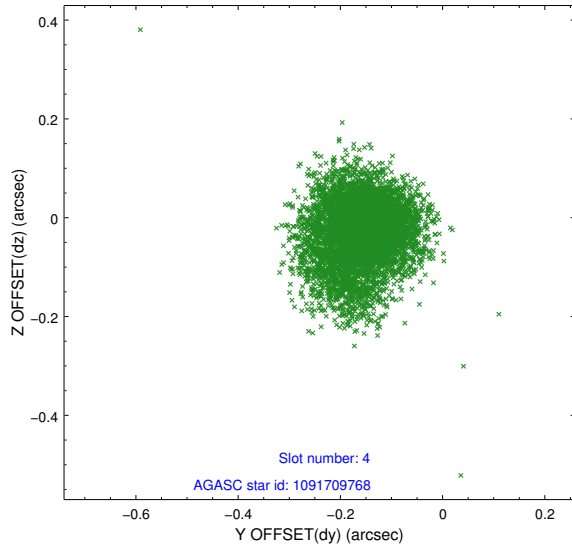
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	2683	-0.136	-0.045	0.008	0.013	0.000000	0.000000	-770.71	-1737.60
1	FID		ACIS-S-4	7.13	2683	0.366	0.078	0.013	0.021	0.000000	0.000000	2142.82	170.57
2	FID		ACIS-S-5	7.15	2682	-0.263	-0.024	0.013	0.023	0.000000	0.000000	-1823.11	164.60
3	GUIDE	used	1091702440	8.71	5363	0.134	0.313	0.114	0.178	248.295809	-47.683380	-1050.34	-1325.58
4	GUIDE	used	1091709768	7.68	5361	-0.158	-0.026	0.088	0.144	249.435228	-47.706899	188.17	1142.85
5	GUIDE	used	1091726152	7.19	5366	0.094	-0.050	0.092	0.152	248.525265	-48.461492	1726.82	-1987.38
6	GUIDE	used	1091704824	9.11	5364	0.136	0.278	0.127	0.193	249.173141	-47.336759	-1288.40	1134.34
7	GUIDE	used	1091705016	7.80	5364	-0.205	-0.509	0.104	0.170	249.888030	-47.558250	177.15	2364.77

2.4 Star Slots

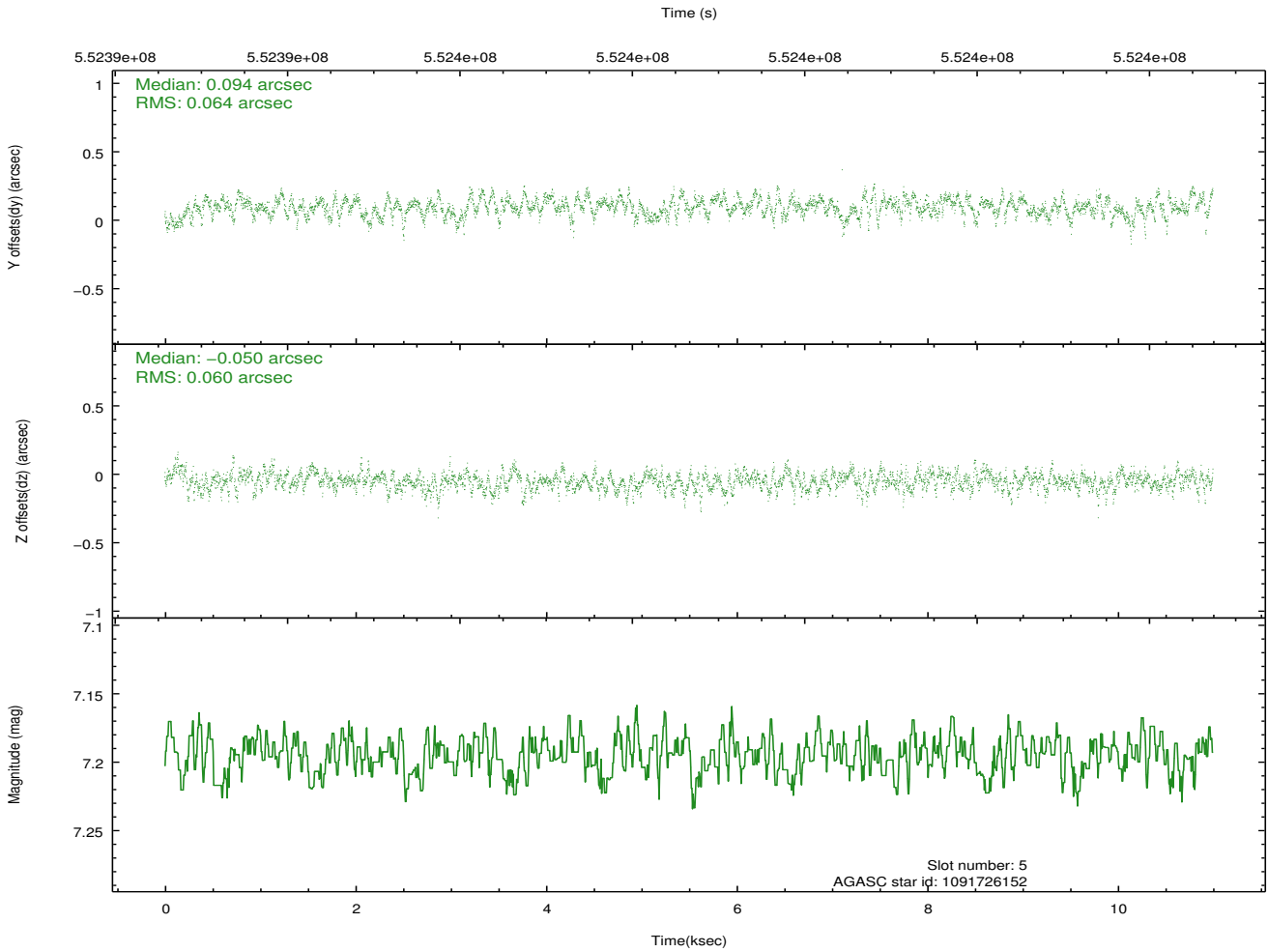
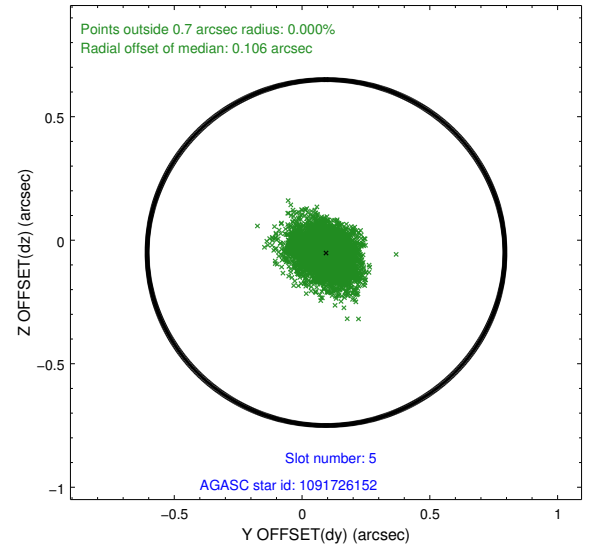
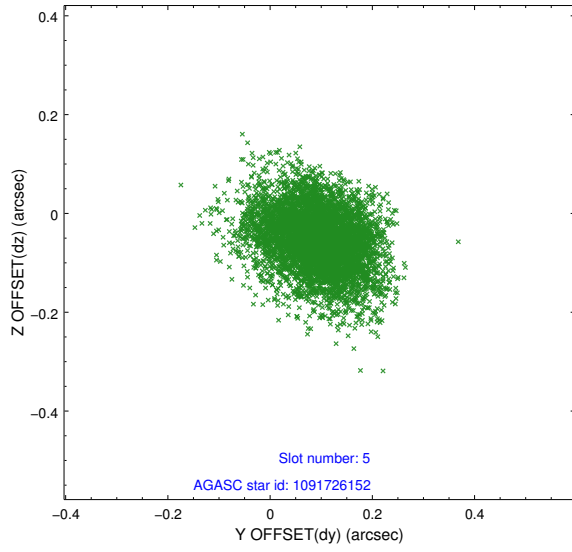
2.4.1 Slot 3



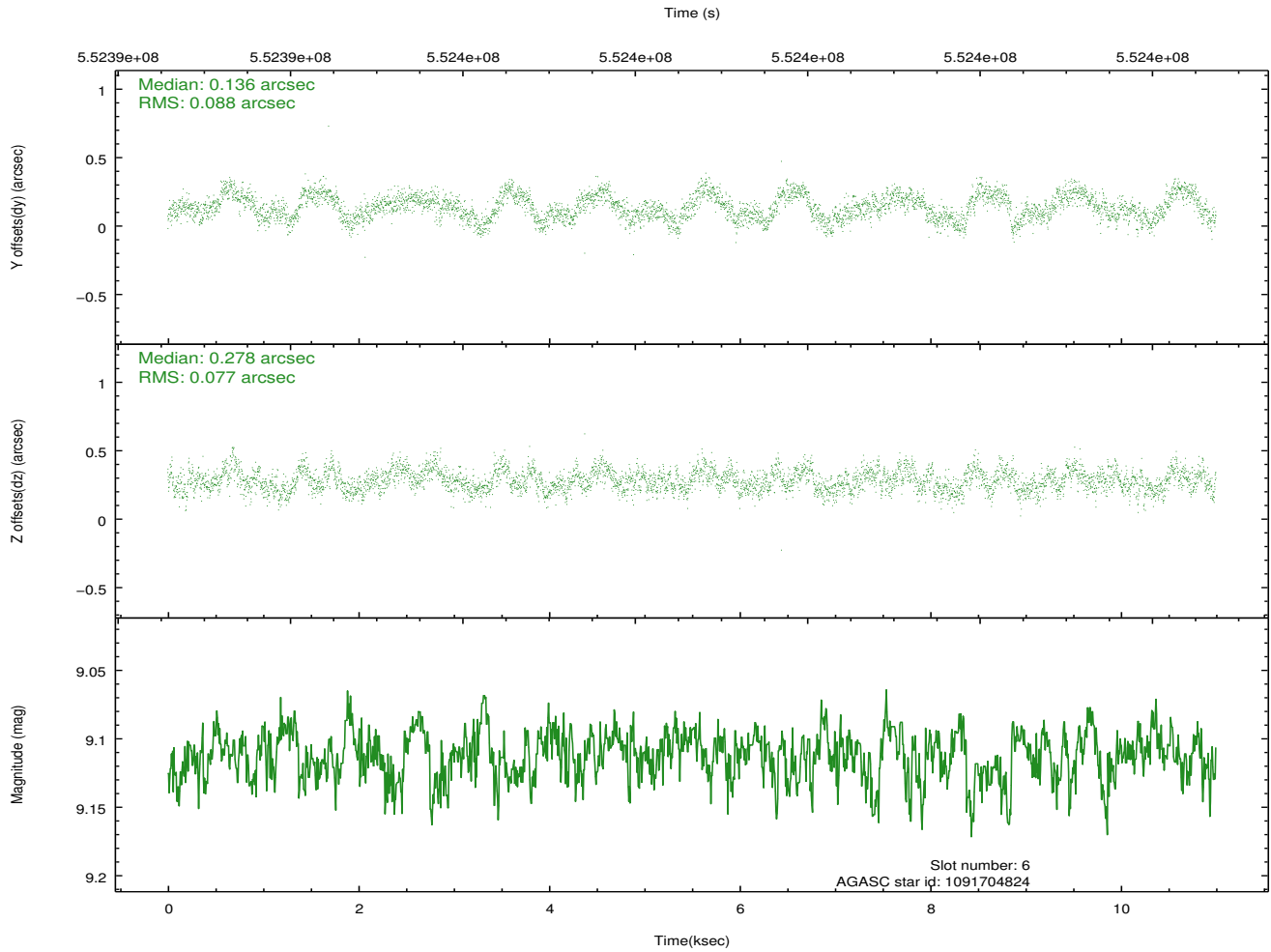
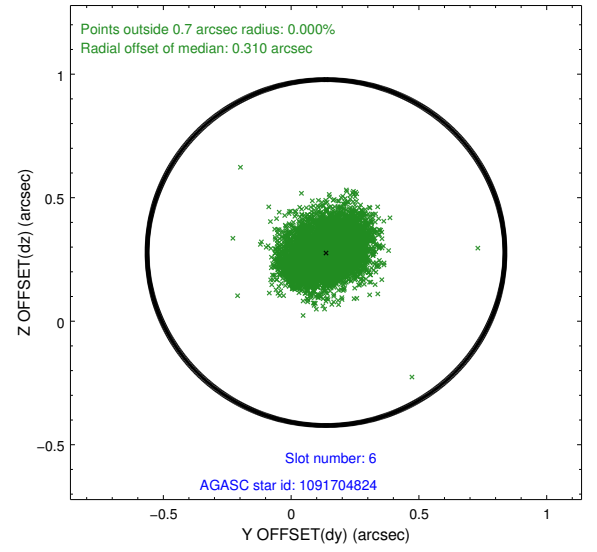
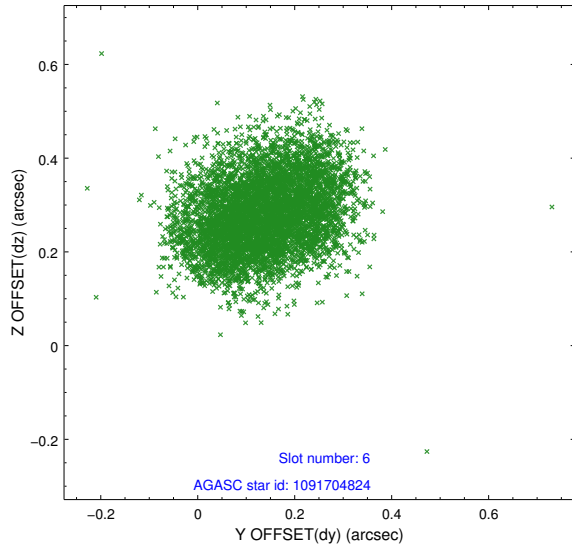
2.4.2 Slot 4



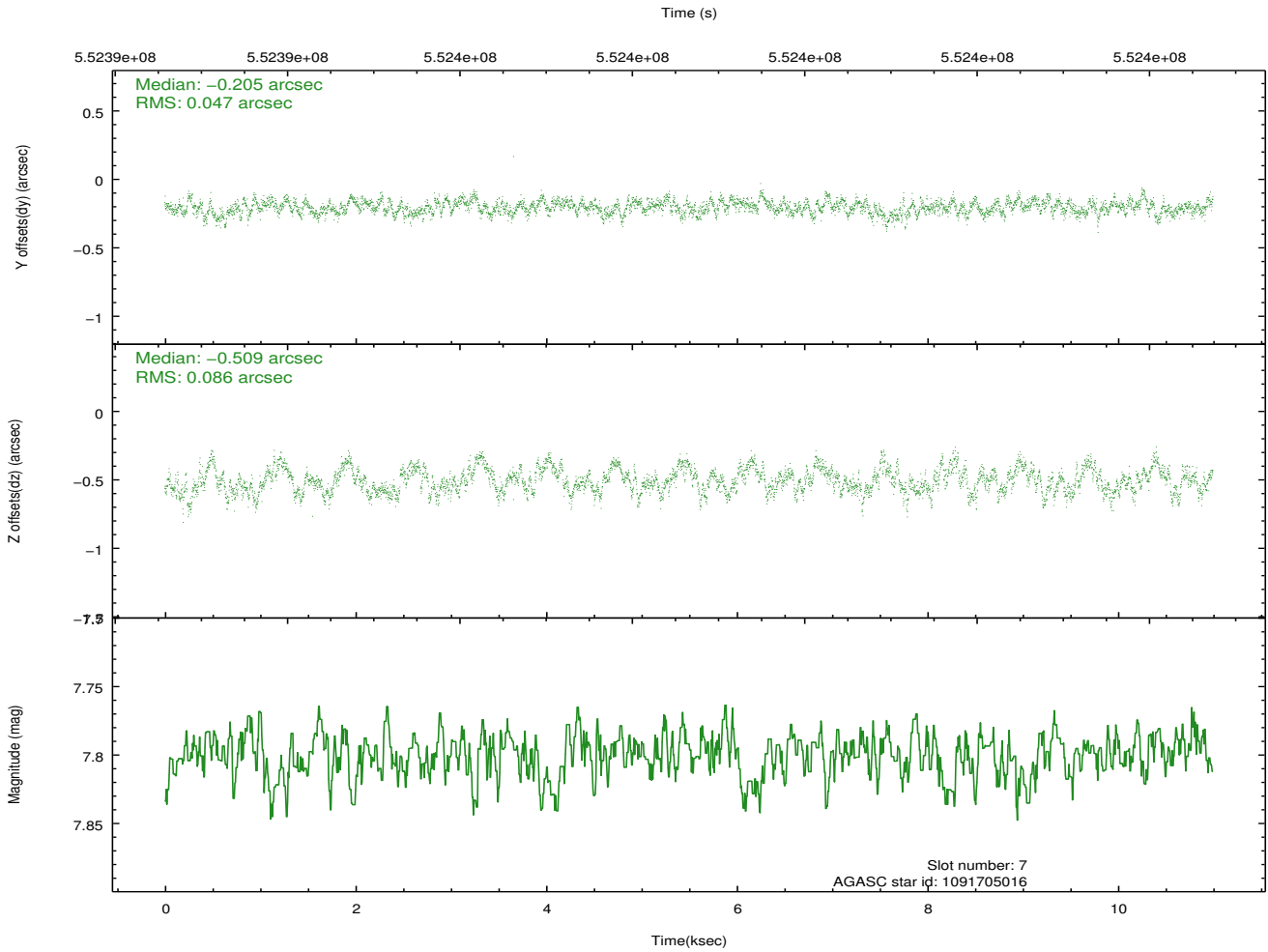
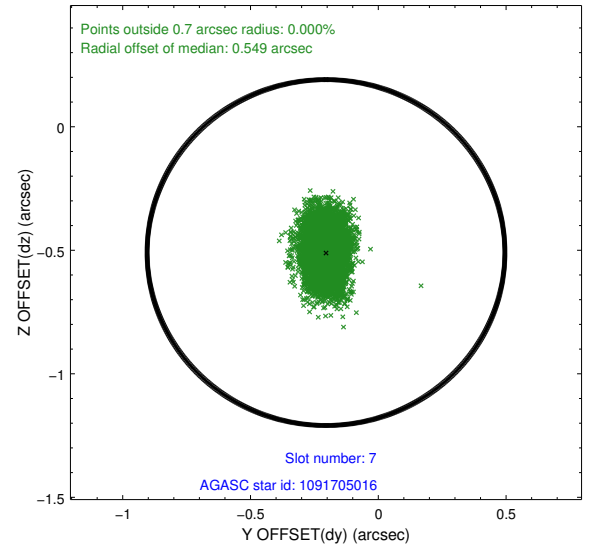
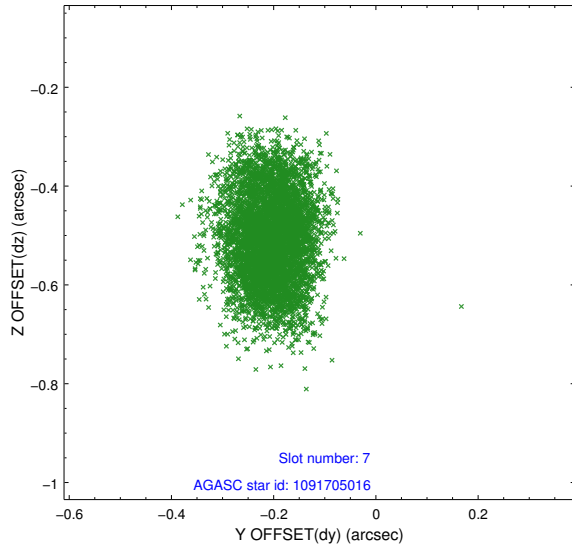
2.4.3 Slot 5



2.4.4 Slot 6

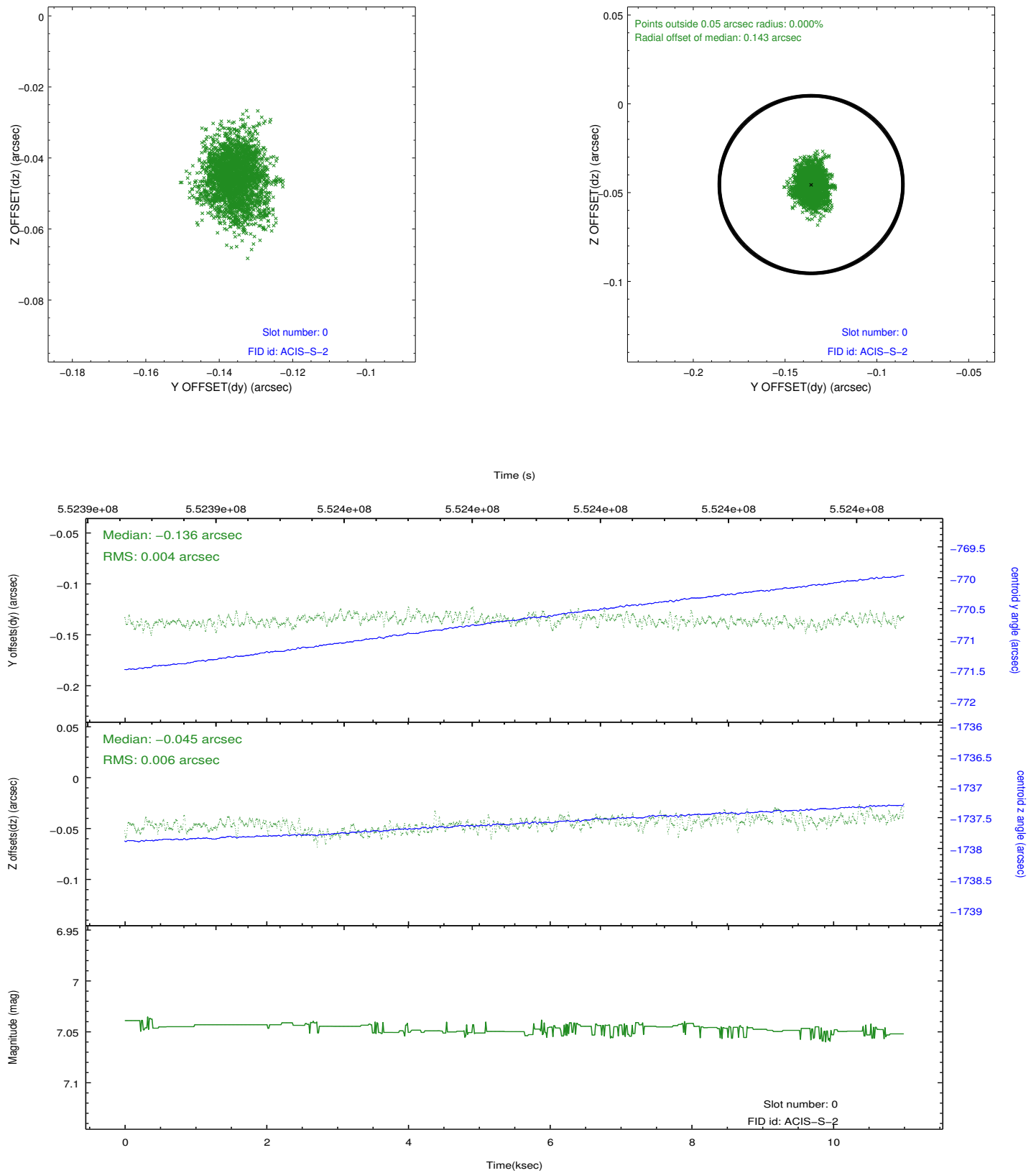


2.4.5 Slot 7

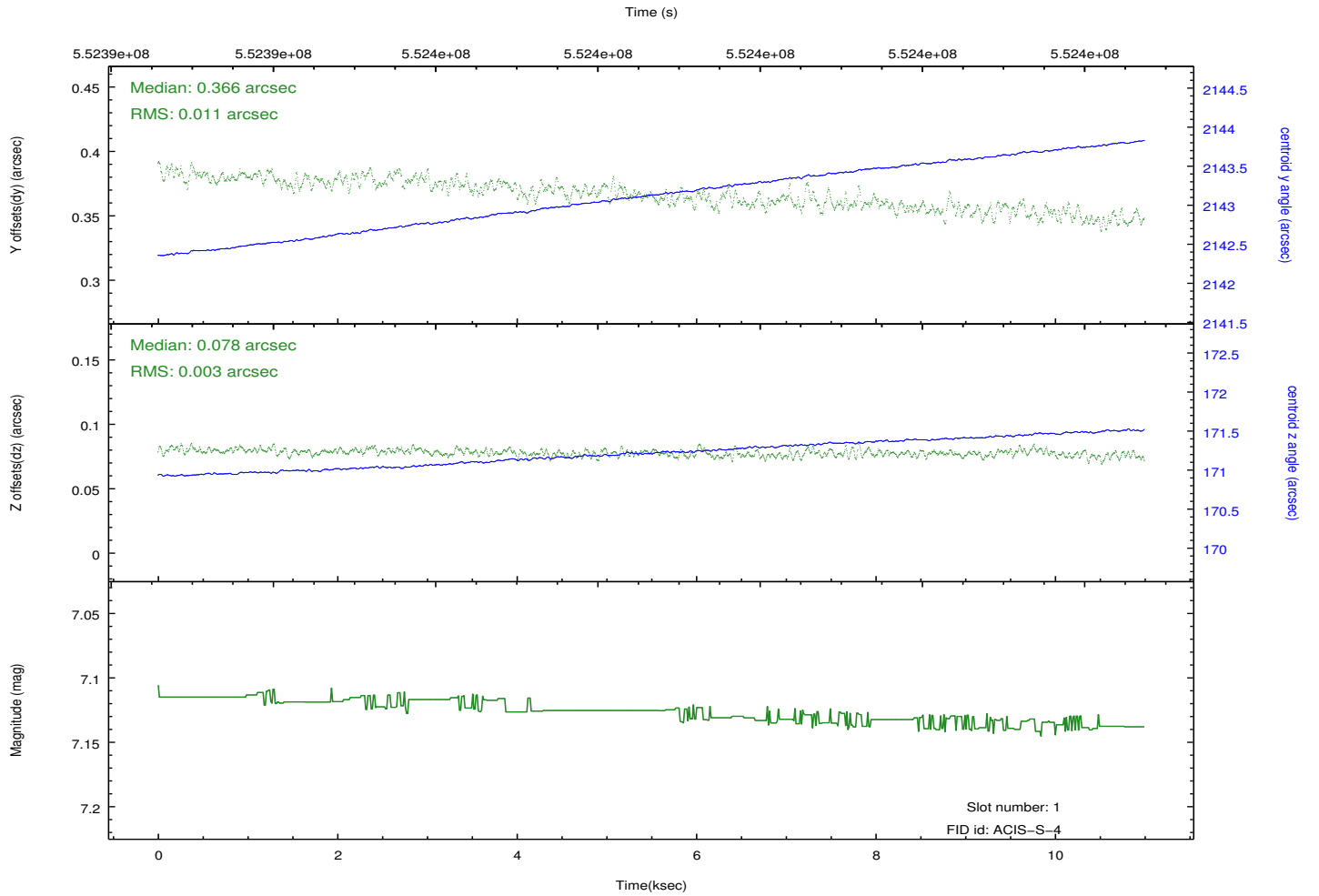
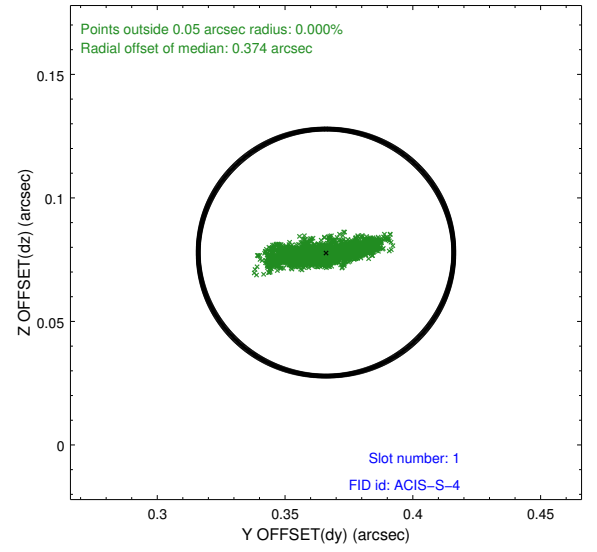
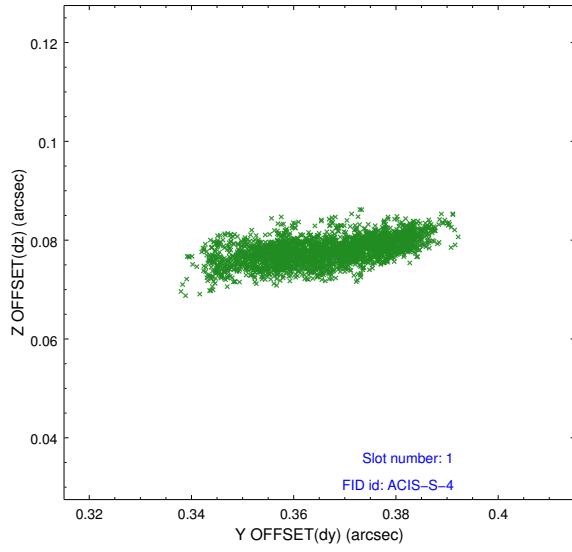


2.5 FID Slots

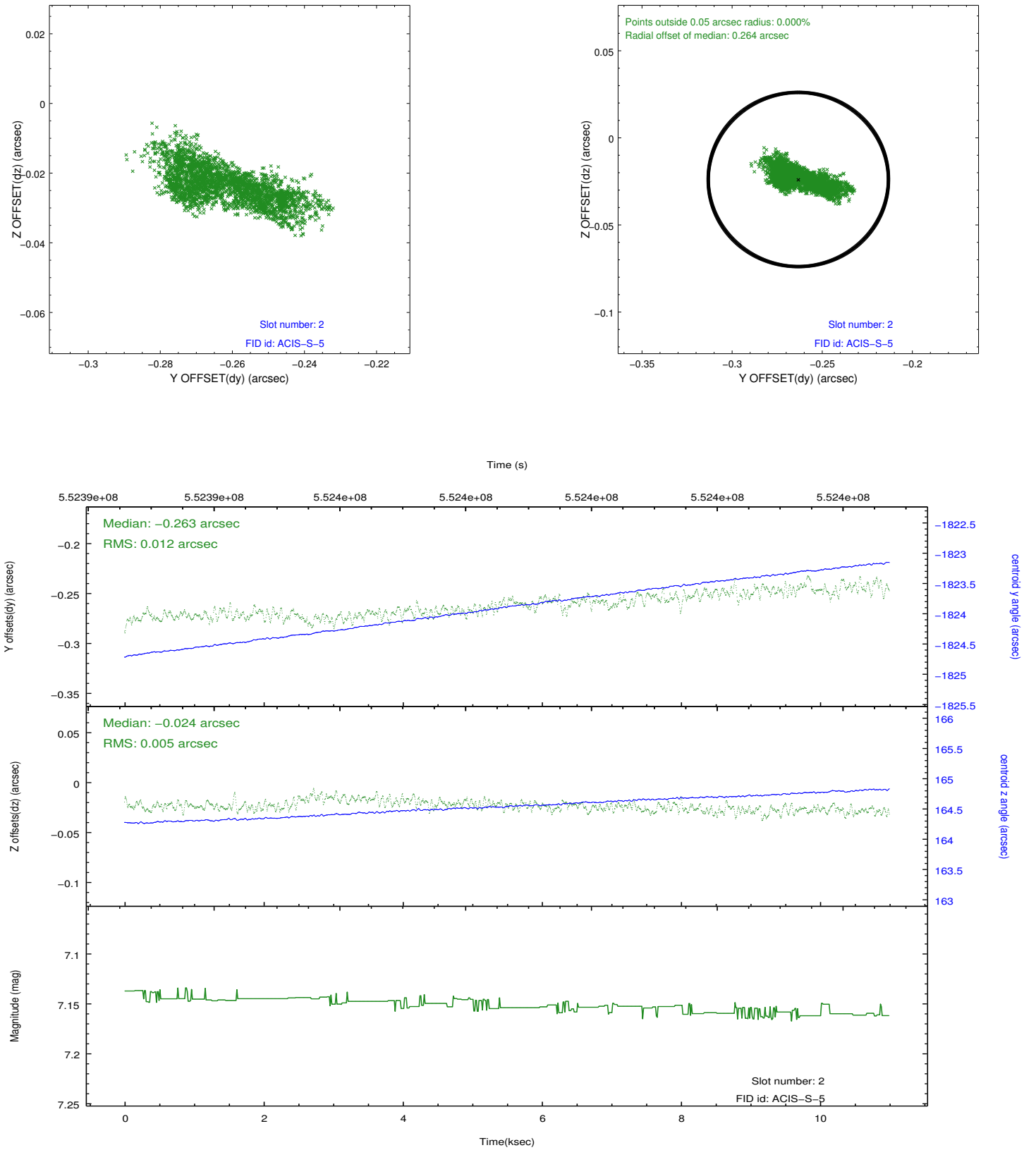
2.5.1 Slot 0



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)	2015.07.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9584001483917

A.2 Comments