

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17244 - L2 Version 1
Chandra X-Ray Center

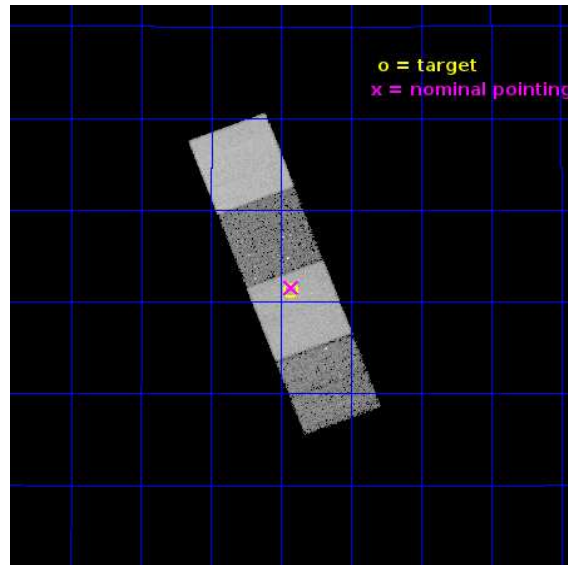
L2 Processing Date : Oct 6 2015

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1 Front

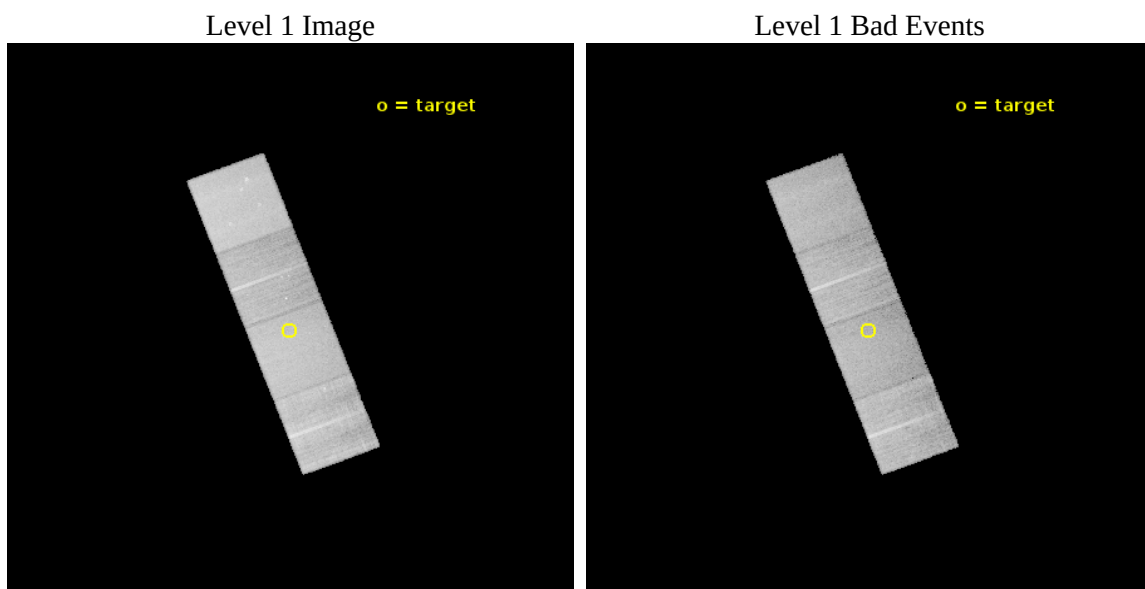
seq_num	901140	Sequence number
obs_id	17244	Observation id
title	The Local Leo Cold Cloud: Separating Solar Wind Charge Exchange from Local Bubble X-ray Emission	Proposal title
observer	Dr. Jonathan Slavin	Principal investigator
object	Local Leo Cold Cloud	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	145.6083	Observer's specified target RA [deg]
dec_targ	12.3538	Observer's specified target Dec [deg]
ra_nom	145.60658335658	Nominal RA [deg]
dec_nom	12.358962722248	Nominal Dec [deg]
roll_nom	69.156985504661	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25053.232315302	Sum of GTIs [s]
livetime	24725.893391181	Livetime [s]
ontime5	25053.191275358	Sum of GTIs [s]
ontime6	25050.009215117	Sum of GTIs [s]
ontime7	25053.232315302	Sum of GTIs [s]
ontime8	25049.968215227	Sum of GTIs [s]
l2events	198605	Number of level 2 events



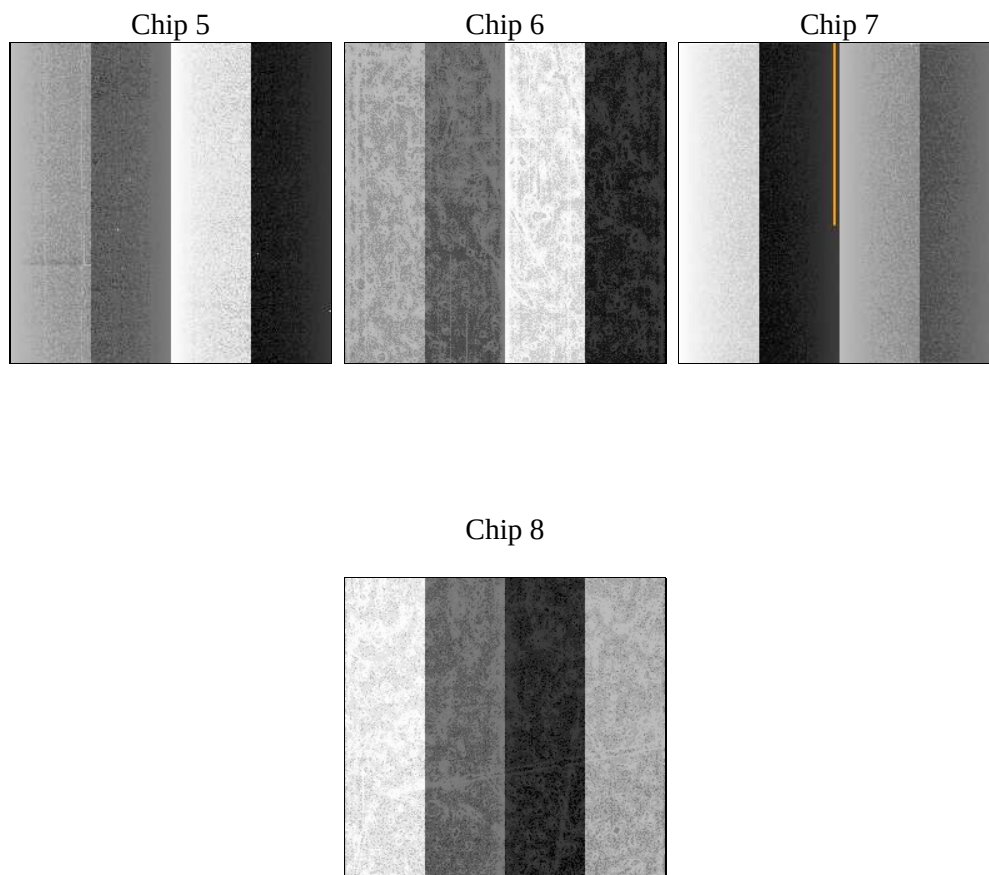
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	25053.232315302	Sum of GTIs [s]
caldbver	4.6.10a	 	ontime5	25053.191275358	Sum of GTIs [s]
date	2015-10-07T03:30:44	Date and time of file creation	ontime6	25050.009215117	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	25053.232315302	Sum of GTIs [s]
			ontime8	25049.968215227	Sum of GTIs [s]
			l1events	685774	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	208871	131155	172809	172939
rejected events	109797	114934	98172	126999
rejected %	52%	87%	56%	73%

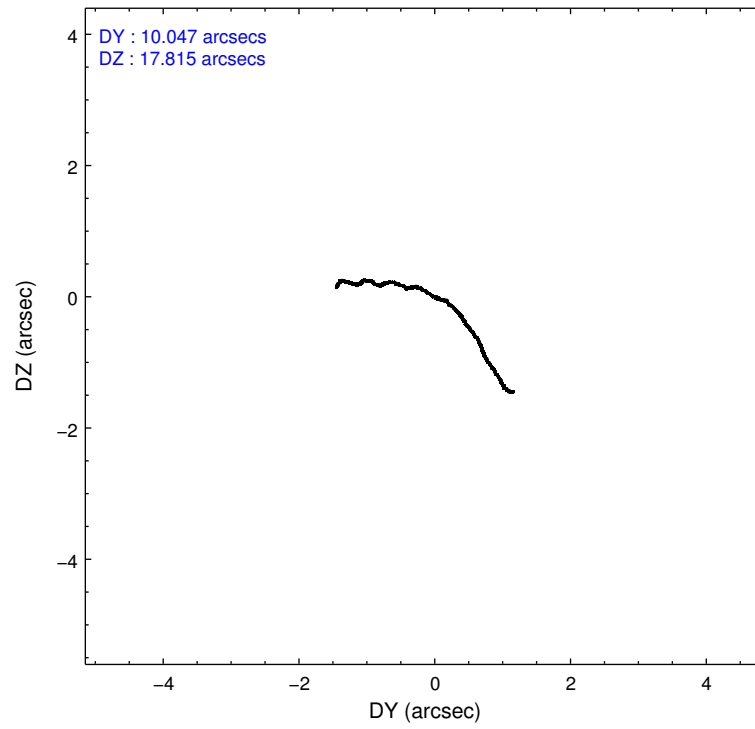
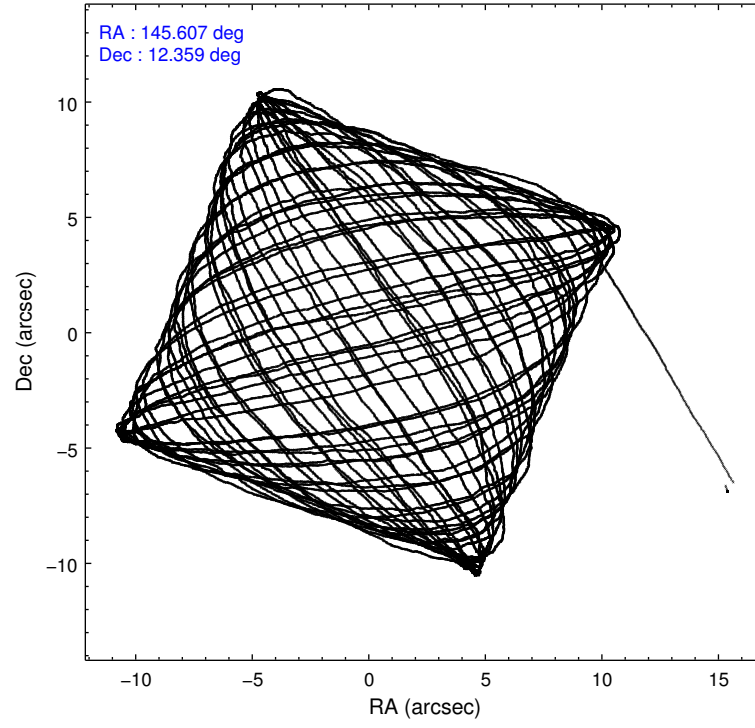
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6725	5725	6218	13208
	3%	4%	3%	7%
grade 1 events	386	61	188	113
	0%	0%	0%	0%
grade 2 events	30464	3754	15438	10944
	14%	2%	8%	6%
grade 3 events	3184	1567	6073	4568
	1%	1%	3%	2%
grade 4 events	3151	1587	5921	4472
	1%	1%	3%	2%
grade 5 events	14808	6605	17117	9522
	7%	5%	9%	5%
grade 6 events	55573	3591	41012	12752
	26%	2%	23%	7%
grade 7 events	94580	108265	80842	117360
	45%	82%	46%	67%

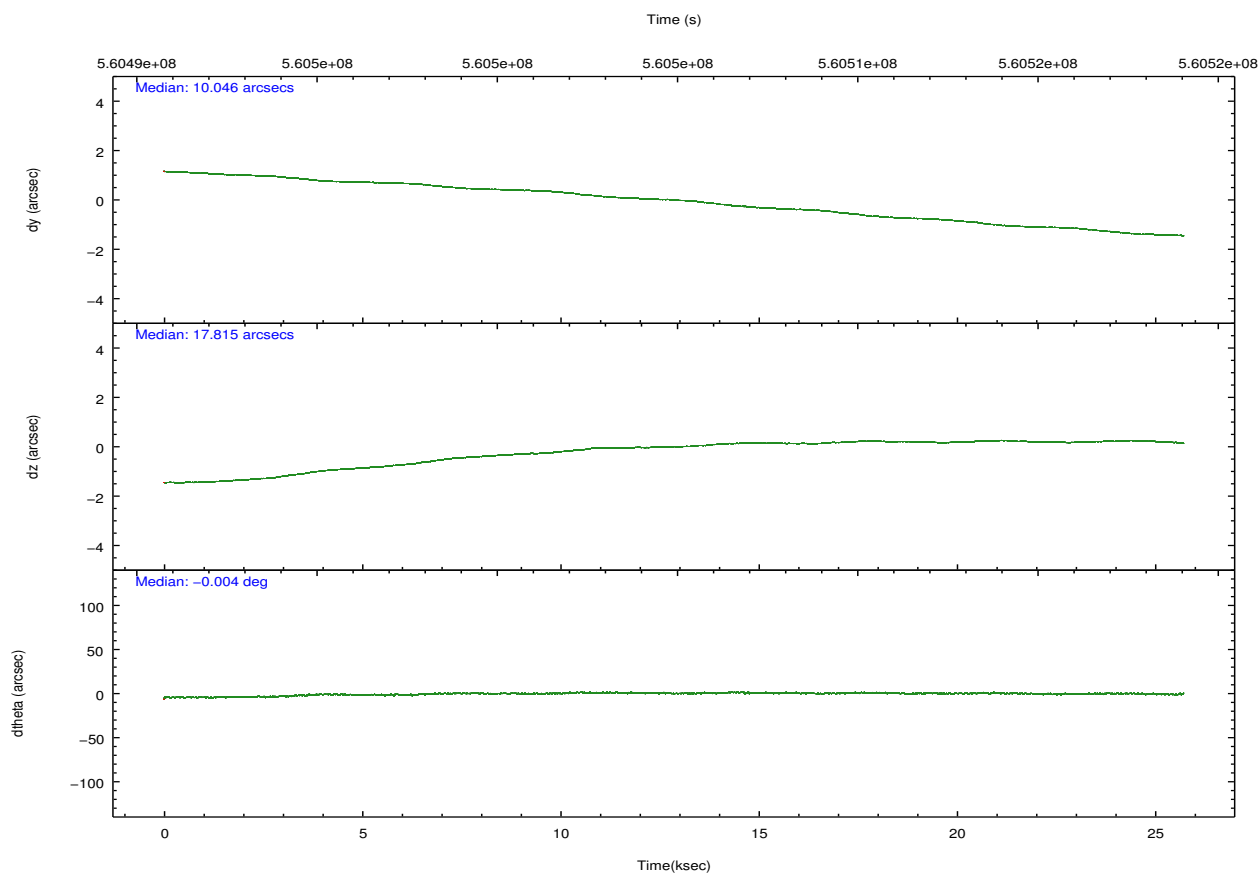
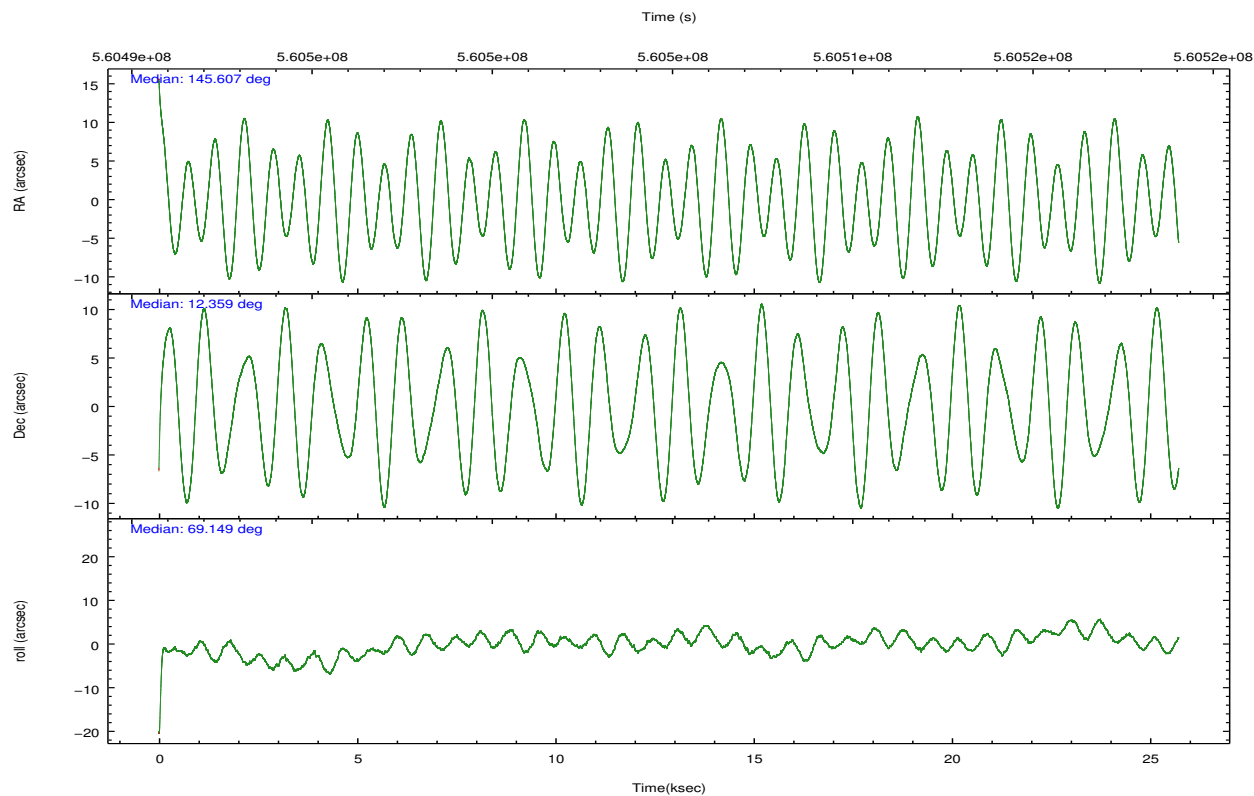
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	145.611402	145.6065833565812
[deg] Pointing Dec	12.331936	12.35896272224756
[deg] Pointing Roll	68.999337	69.15698550466072
[s] Window start time (MET)	560390468.184000	560390468.184000
[s] Window stop time (MET)	564364868.184000	564364868.184000
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	560492738.184000	560490857.4148999
Observation start date	2015-10-06T04:24:30	2015-10-06T03:54:17
[s] Observation end time (MET)	560517738.184000	560518656.95397
Observation end date	2015-10-06T11:21:10	2015-10-06T11:37:36
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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



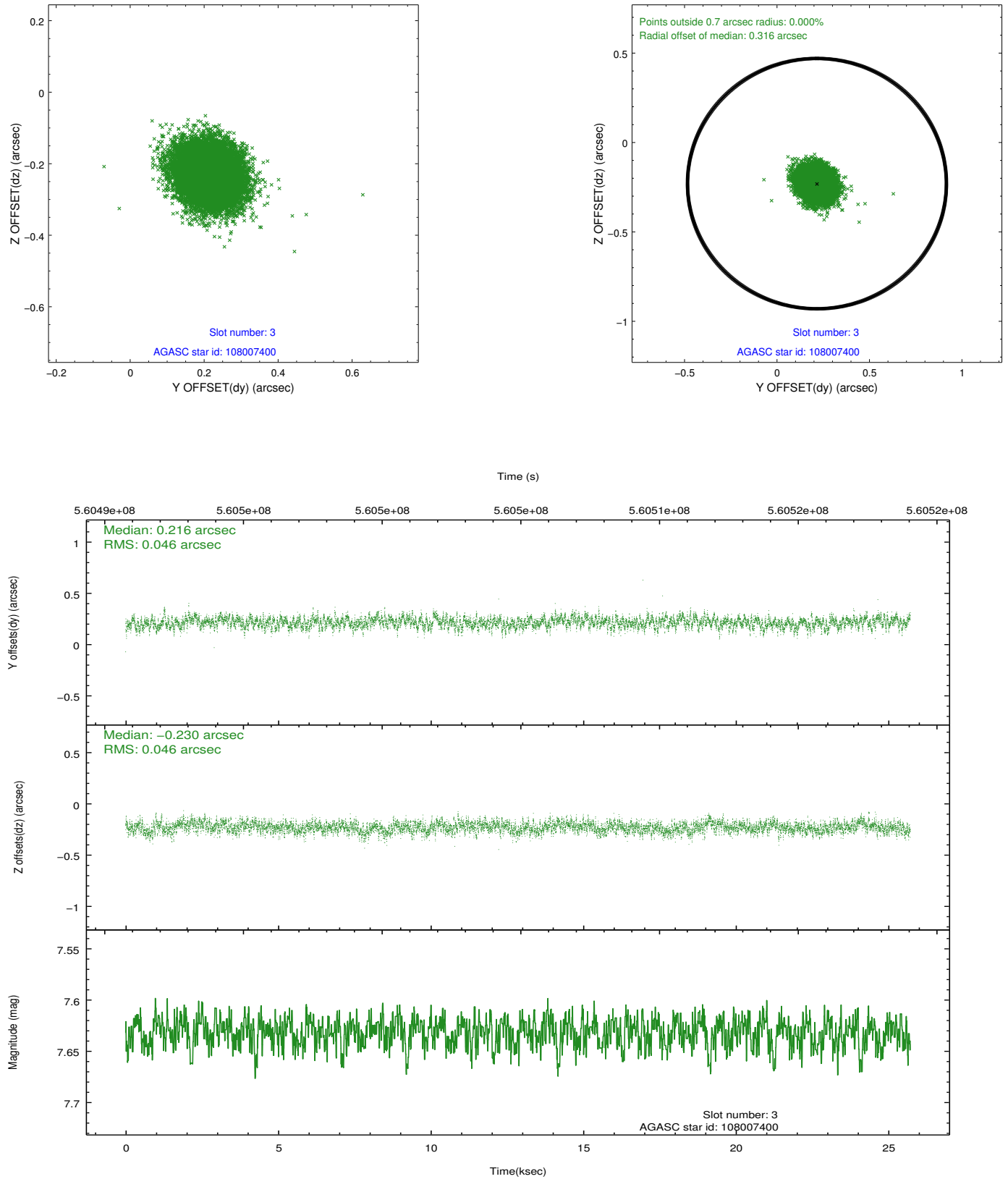


Slot Statistics

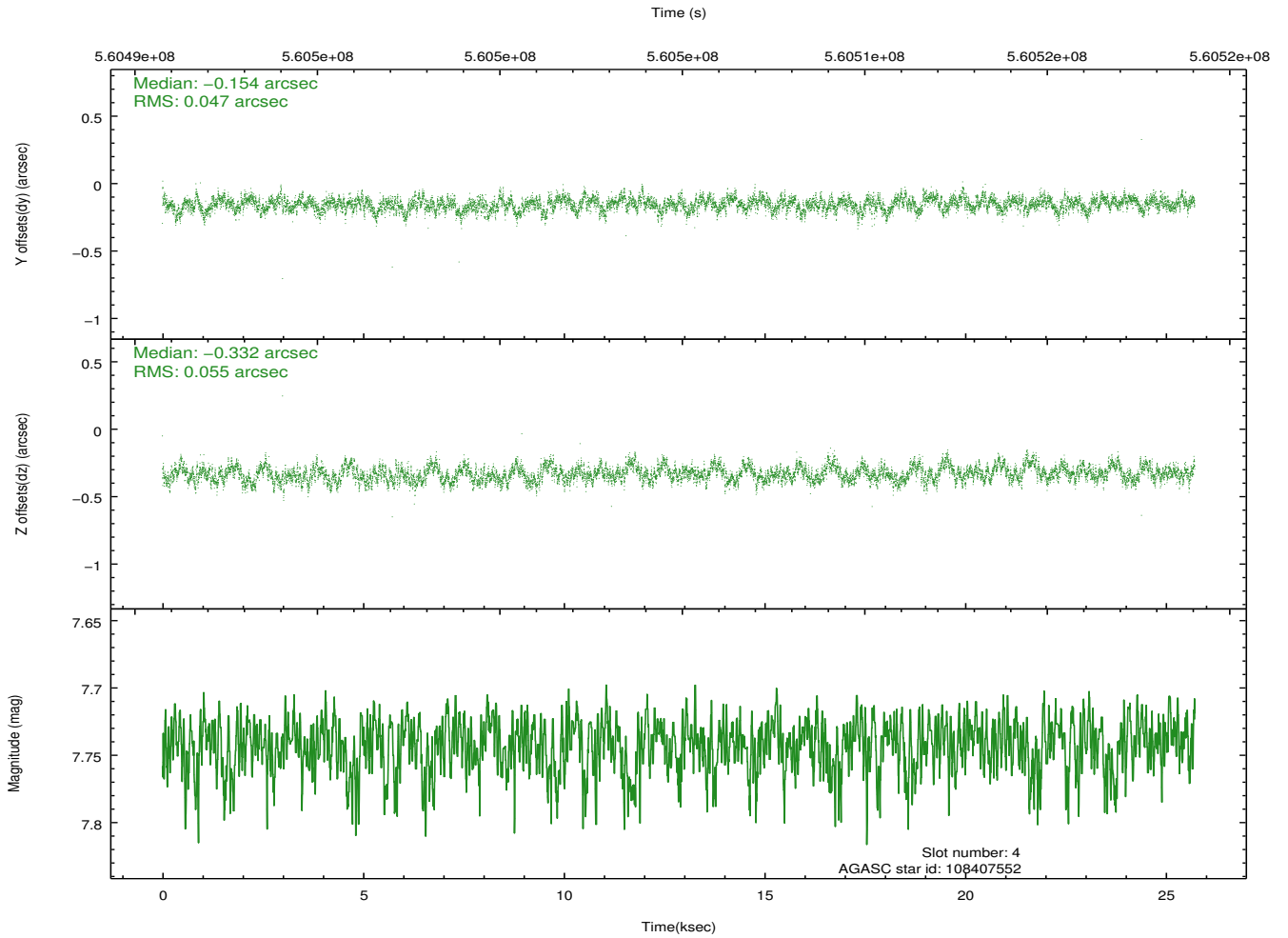
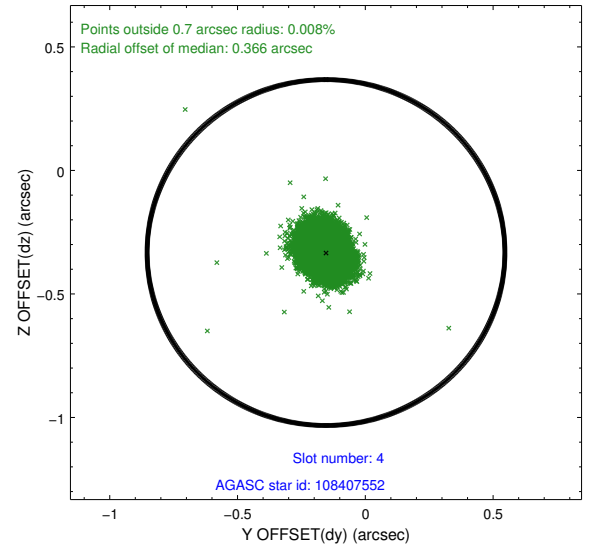
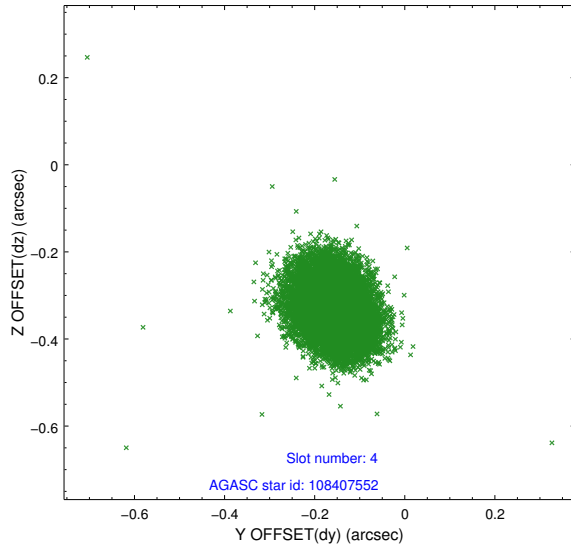
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	6273	-0.125	-0.109	0.020	0.033	0.000000	0.000000	-762.92	-1739.11
1	FID		ACIS-S-4	7.20	6274	0.355	0.088	0.013	0.046	0.000000	0.000000	2150.79	169.44
2	FID		ACIS-S-5	7.24	6274	-0.260	0.032	0.017	0.032	0.000000	0.000000	-1815.75	163.19
3	GUIDE	used	108007400	7.63	12544	0.216	-0.230	0.069	0.111	144.894890	12.166080	-1458.24	2140.96
4	GUIDE	used	108407552	7.74	12545	-0.154	-0.332	0.076	0.122	145.411440	12.898641	1653.18	1386.03
5	GUIDE	used	108933040	7.11	12546	0.035	0.129	0.066	0.106	145.930414	12.159796	-174.94	-1269.67
6	GUIDE	used	109314160	8.91	12546	-0.034	0.214	0.108	0.178	145.841992	12.599197	1188.08	-410.31
7	GUIDE	used	109322304	8.59	12537	-0.065	0.220	0.078	0.131	146.016782	12.535162	1194.71	-1067.26

2.4 Star Slots

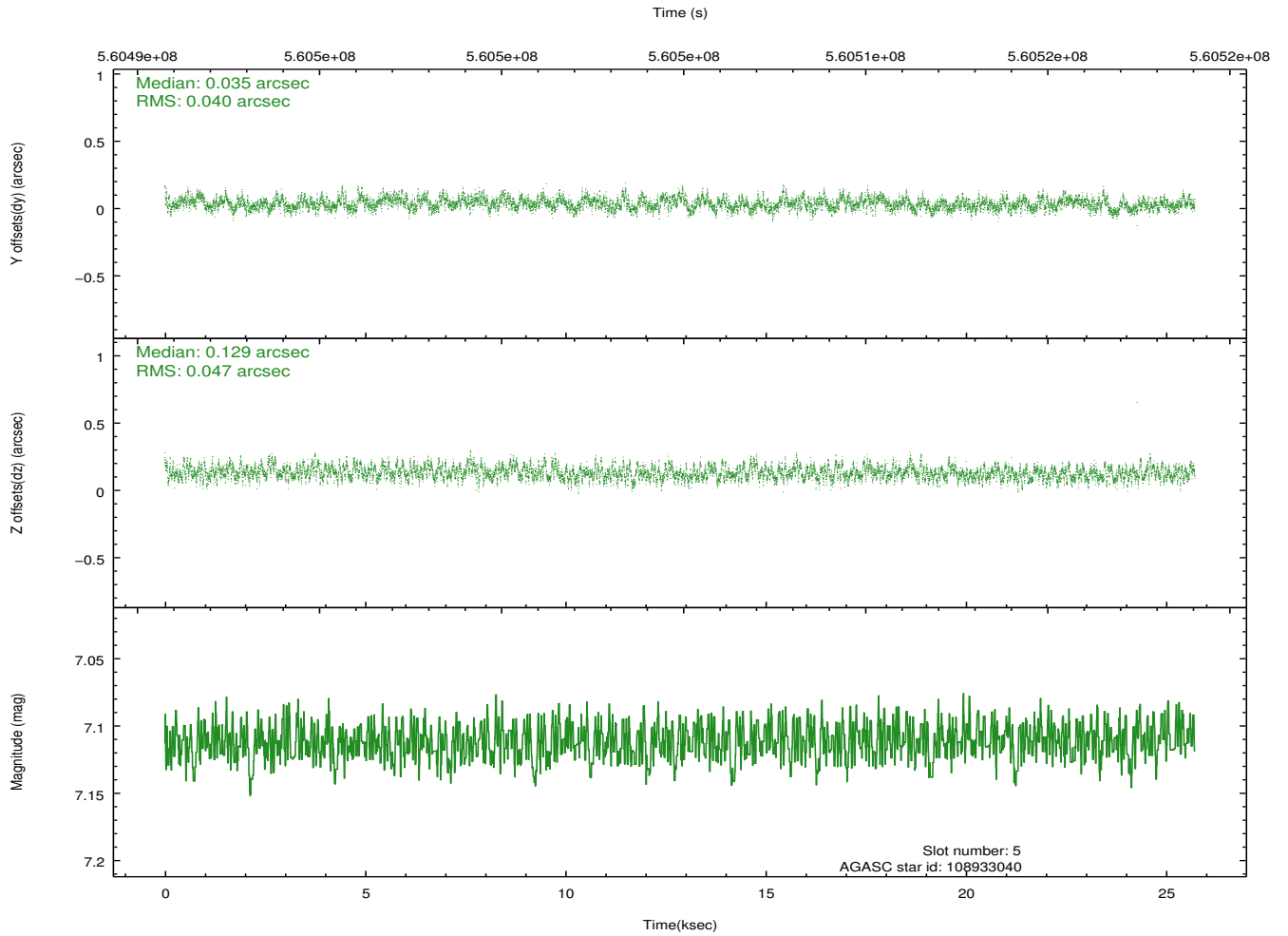
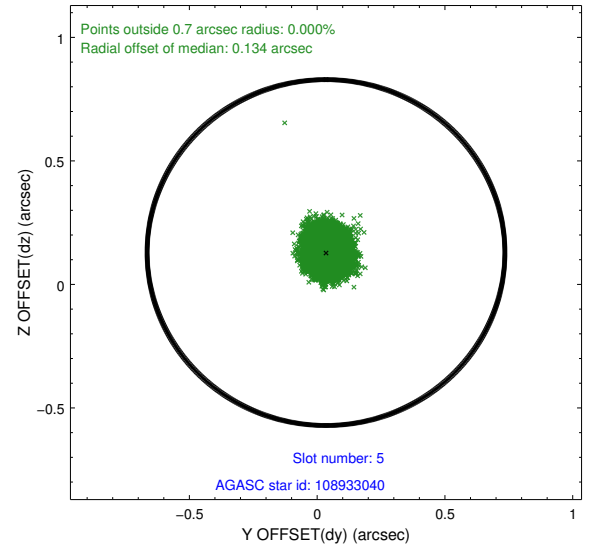
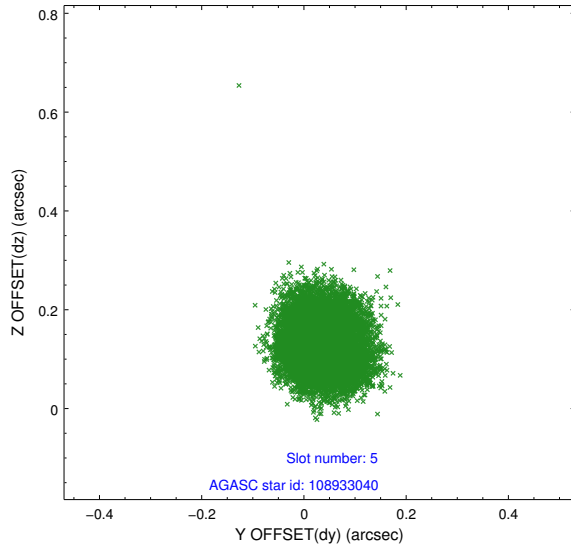
2.4.1 Slot 3



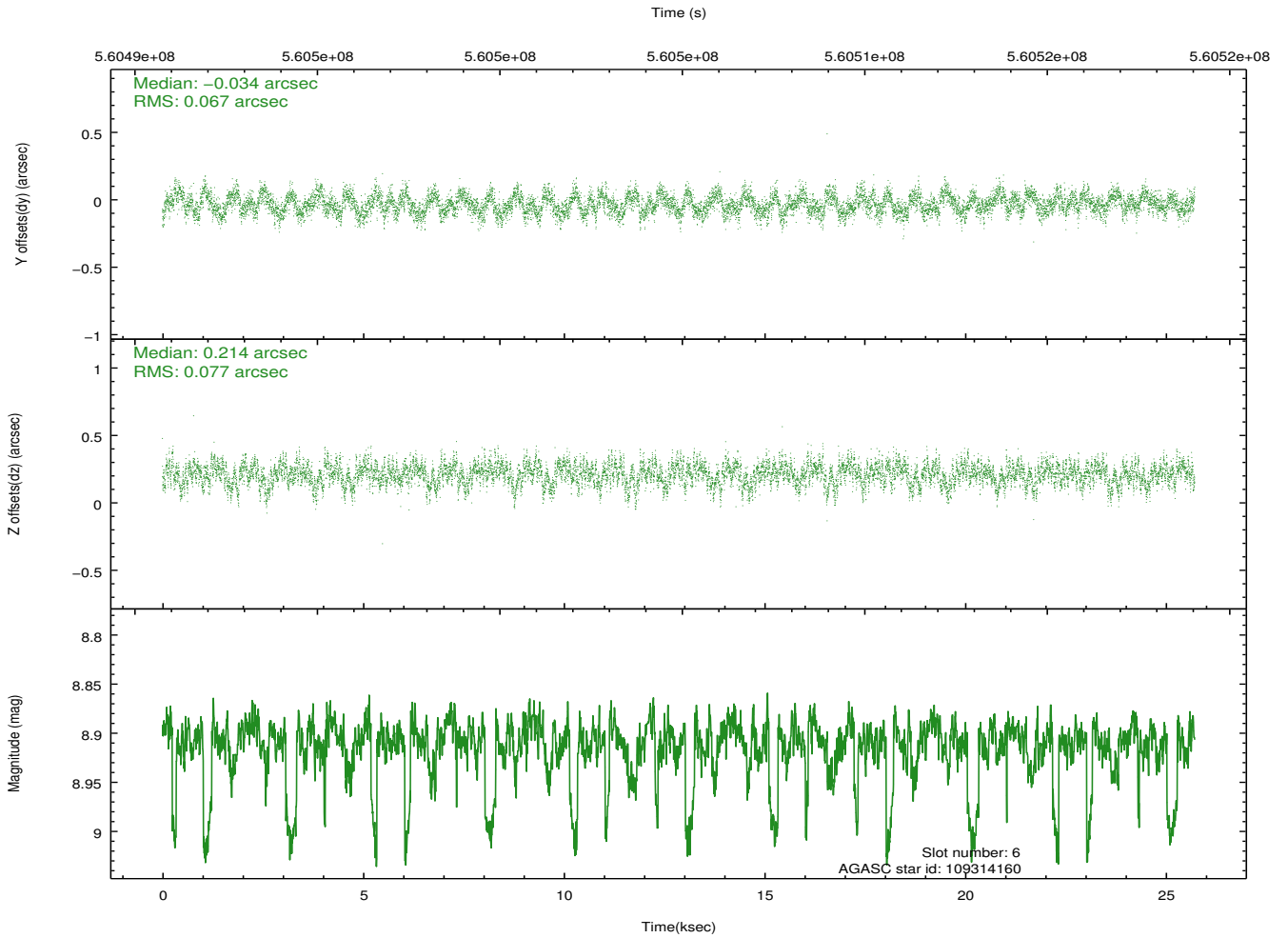
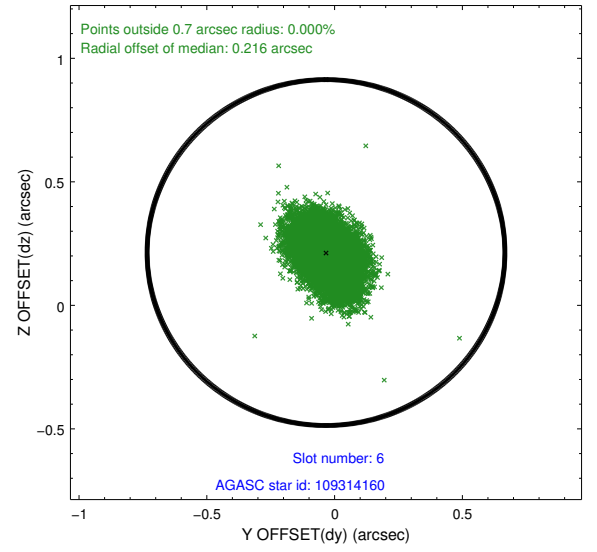
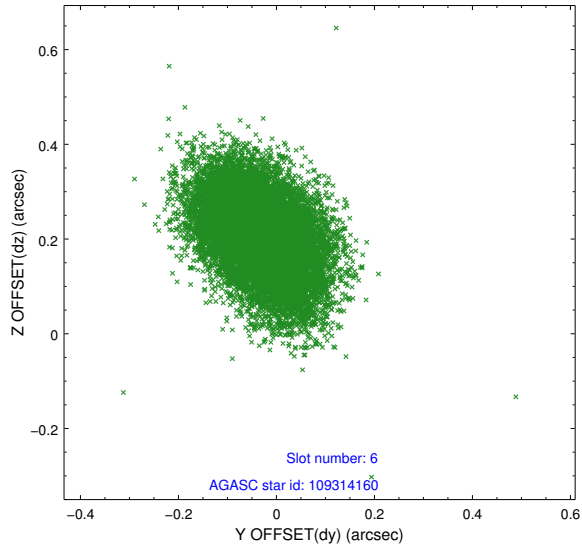
2.4.2 Slot 4



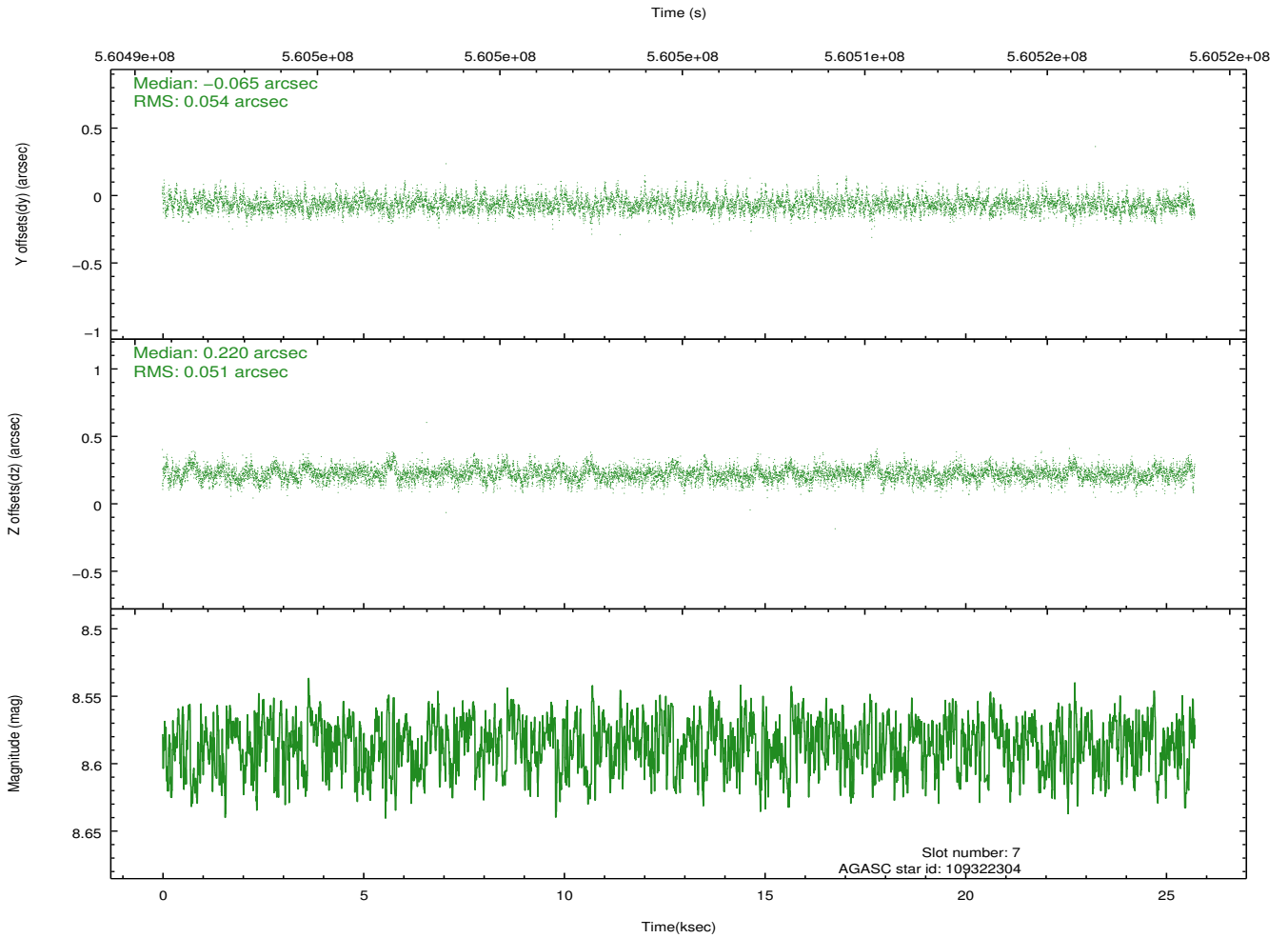
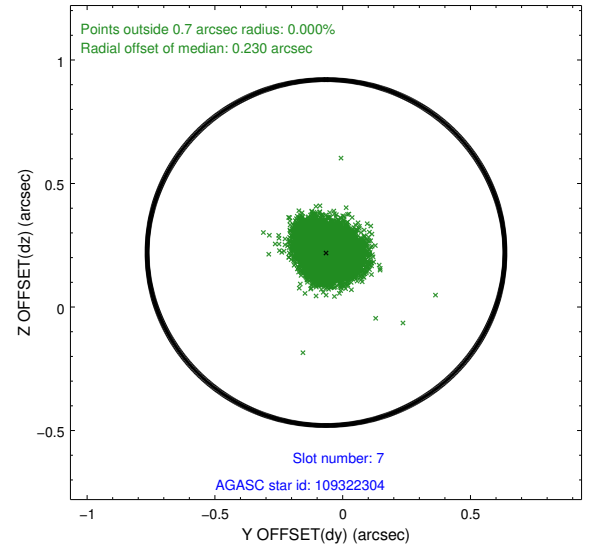
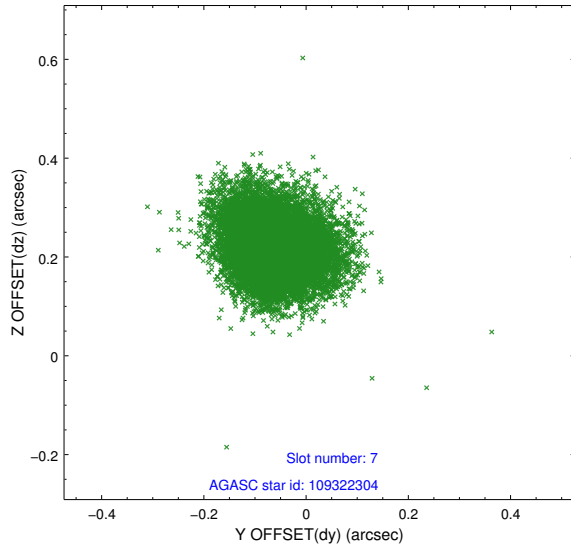
2.4.3 Slot 5



2.4.4 Slot 6

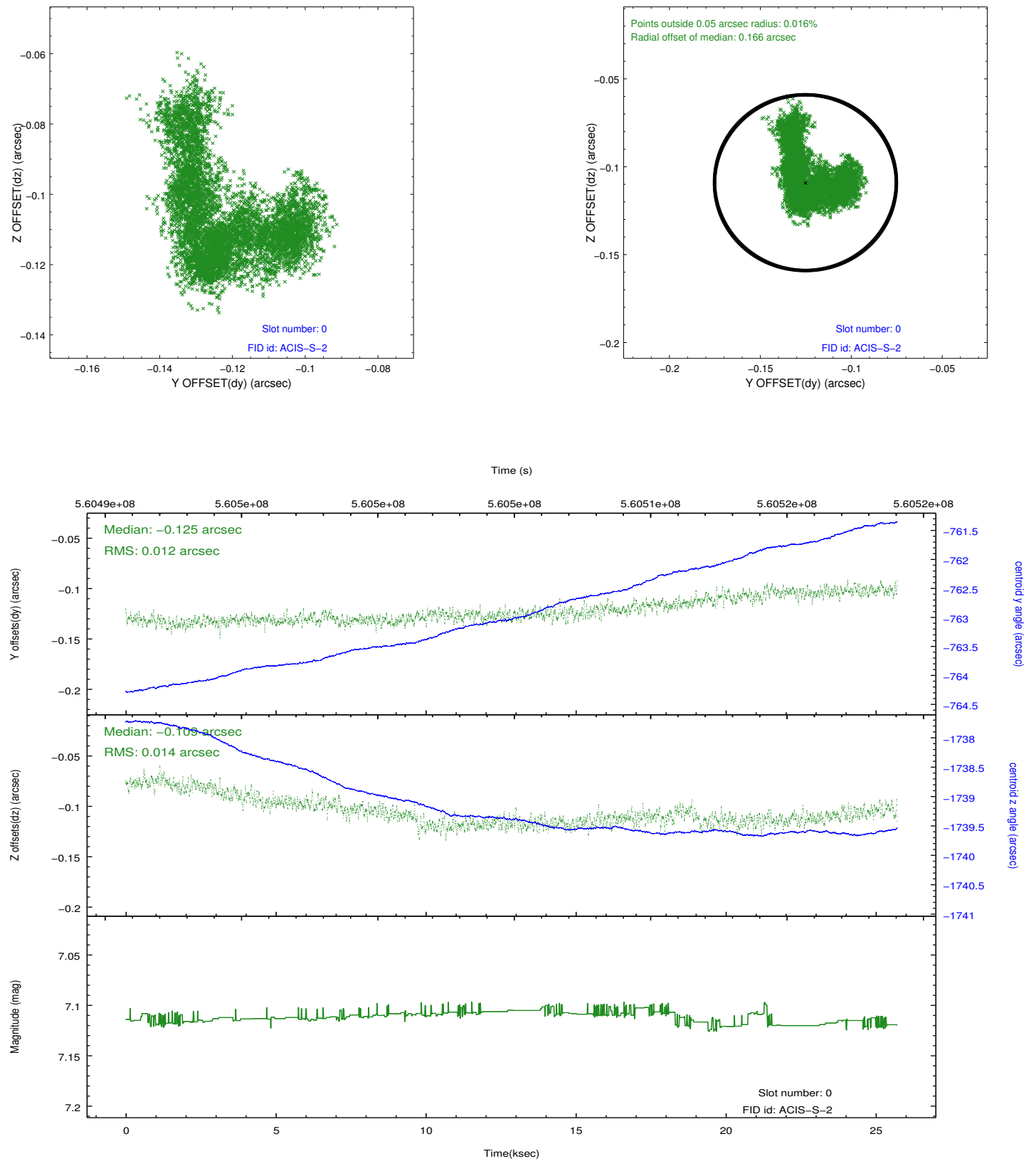


2.4.5 Slot 7

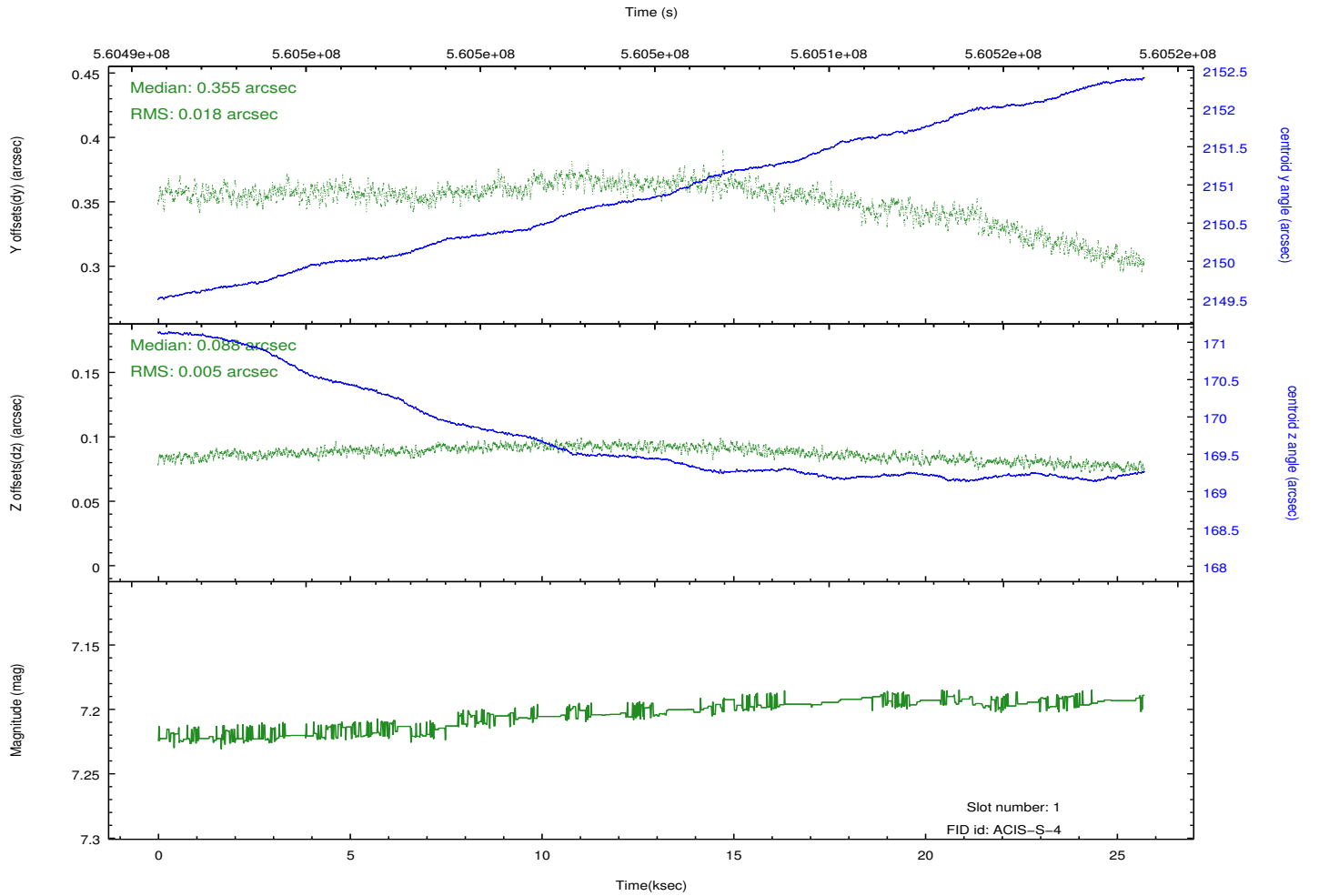
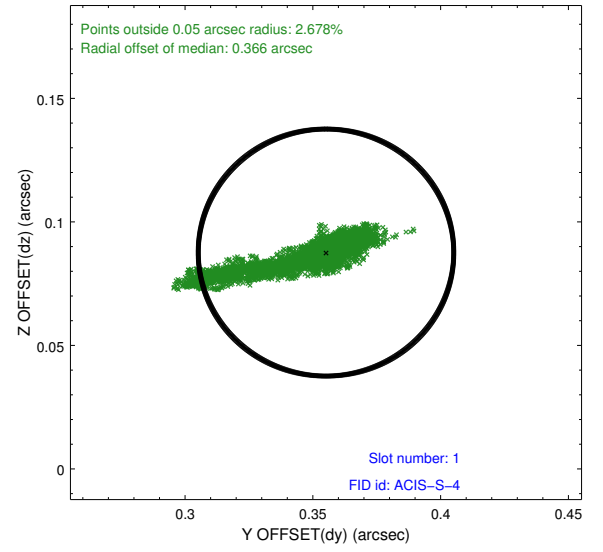
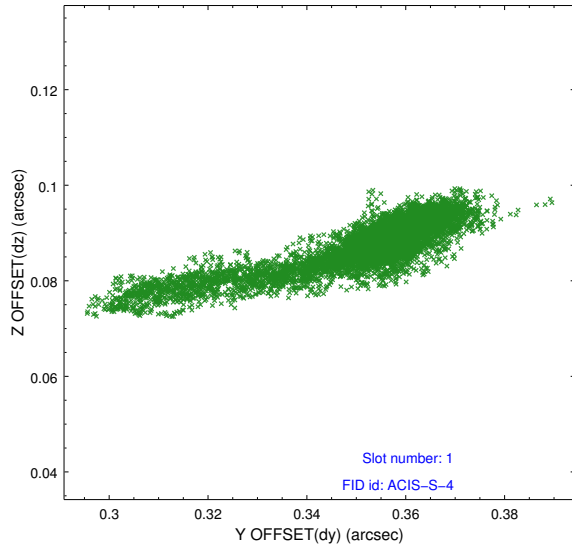


2.5 FID Slots

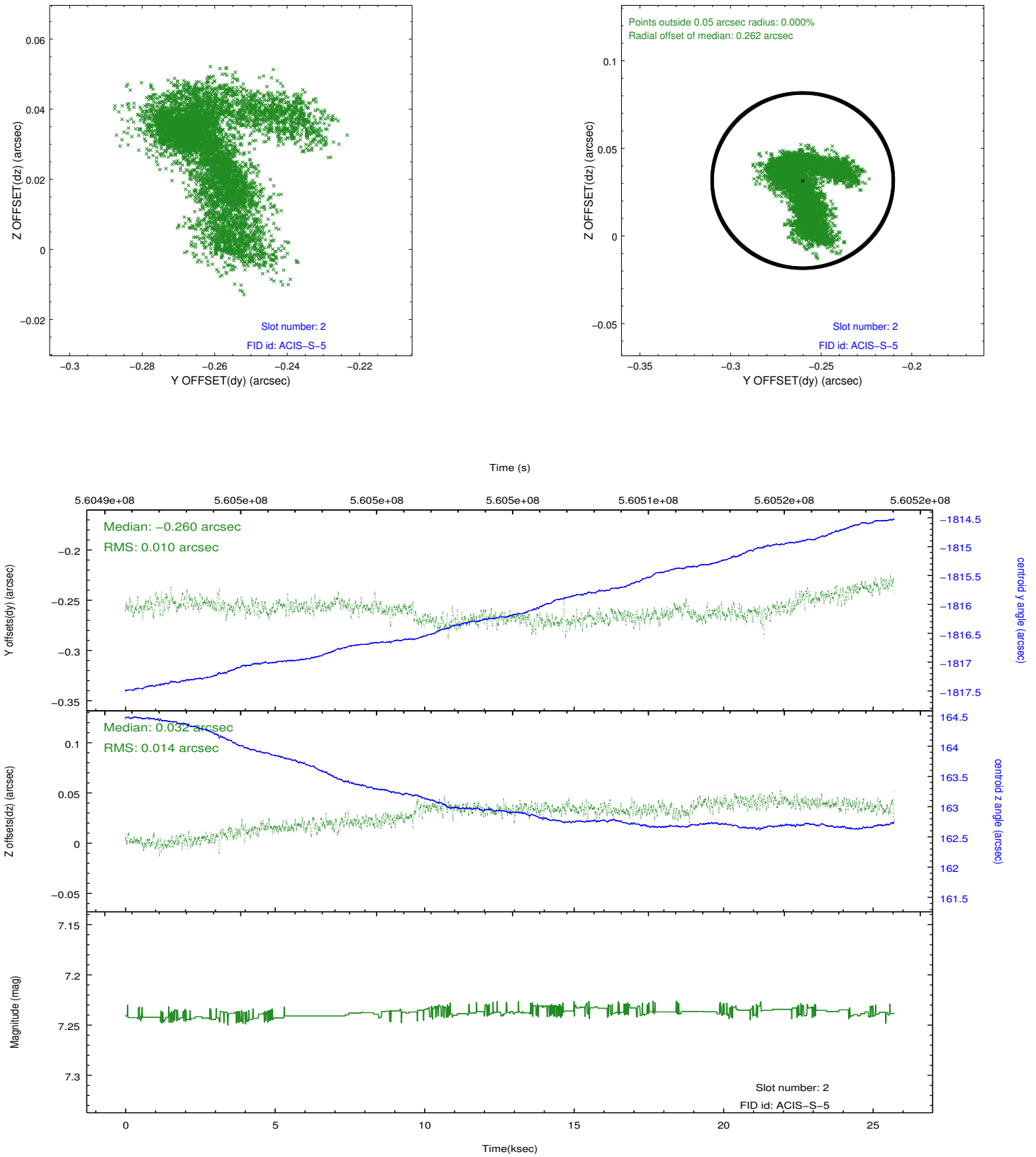
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.053232315302

A.2 Comments