

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4753 - L2 Version 3
Chandra X-Ray Center

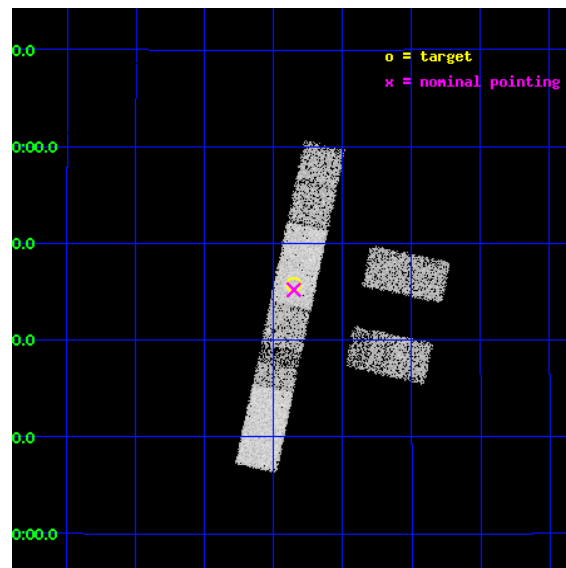
L2 Processing Date : Nov 7 2012

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1 Front

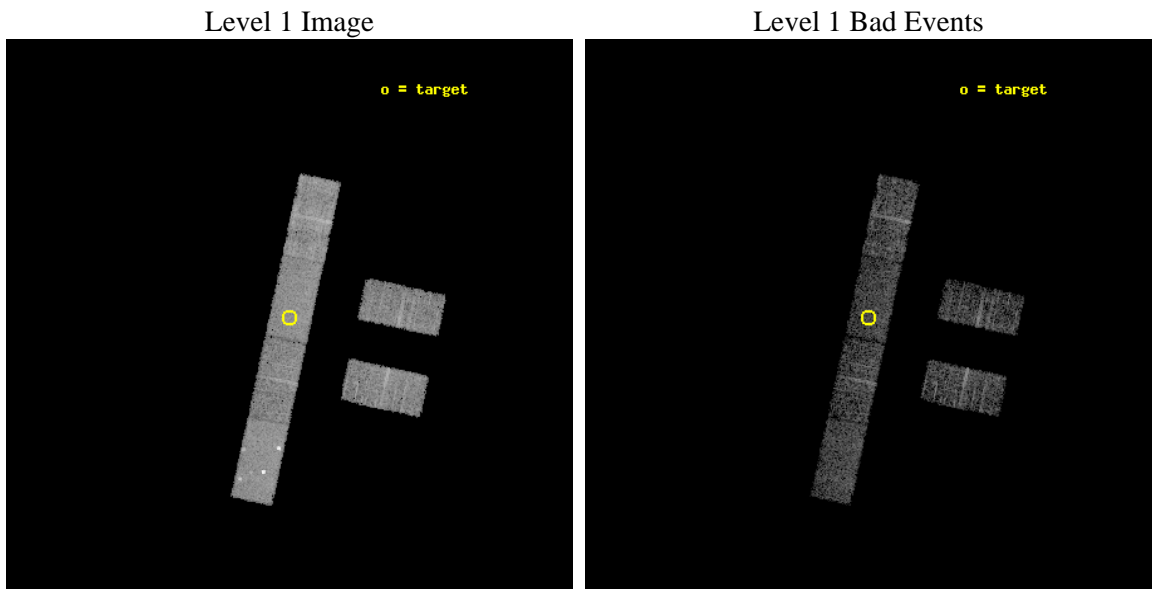
seq_num	600408	Sequence number
obs_id	4753	Observation id
title	Observations of Intermediate Mass Black Hole Candidate Ultra-Luminous X-ray Sources	Proposal title
observer	Dr Jon Miller	Principal investigator
object	M74 X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	24.212917	Observer's specified target RA [deg]
dec_targ	15.763056	Observer's specified target Dec [deg]
ra_nom	24.213332351331	Nominal RA [deg]
dec_nom	15.753448609887	Nominal Dec [deg]
roll_nom	282.17935264522	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5403.6000357866	Sum of GTIs [s]
livetime	5283.1443447269	Livetime [s]
ontime2	5403.6000357866	Sum of GTIs [s]
ontime3	5403.6000357866	Sum of GTIs [s]
ontime5	5403.6000357866	Sum of GTIs [s]
ontime6	5403.6000357866	Sum of GTIs [s]
ontime7	5403.6000357866	Sum of GTIs [s]
ontime8	5403.6000357866	Sum of GTIs [s]
l2events	33824	Number of level 2 events



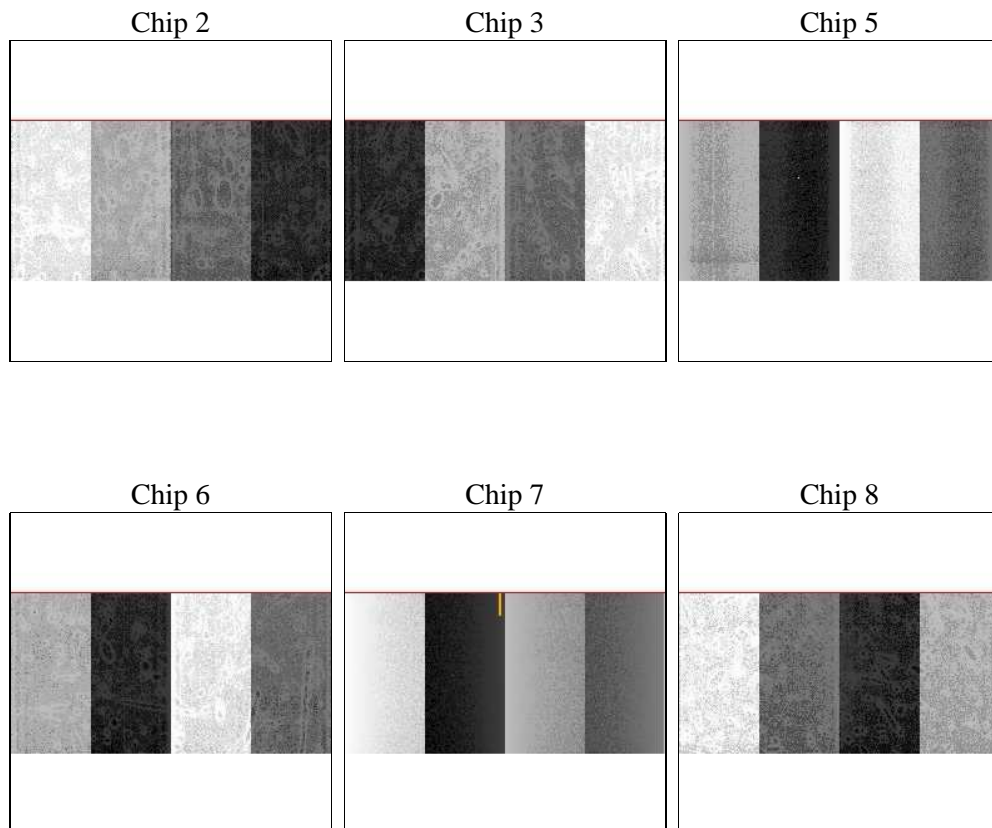
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5403.6000357866	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	5403.6000357866	Sum of GTIs [s]
date	2012-11-08T02:10:13	Date and time of file creation	ontime3	5403.6000357866	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5403.6000357866	Sum of GTIs [s]
			ontime6	5403.6000357866	Sum of GTIs [s]
			ontime7	5403.6000357866	Sum of GTIs [s]
			ontime8	5403.6000357866	Sum of GTIs [s]
			l1events	129083	Number of level 1 events

2.1.4 Events

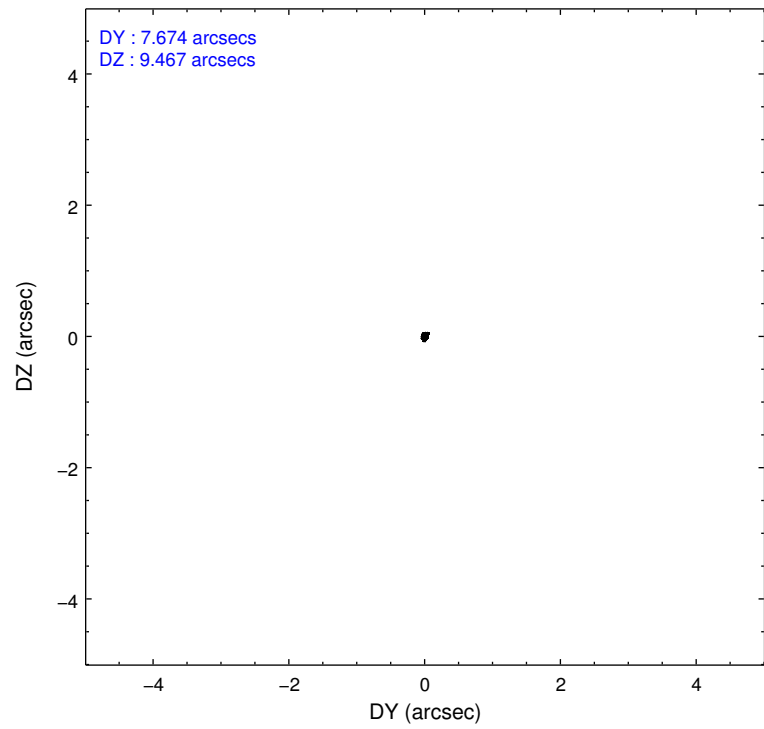
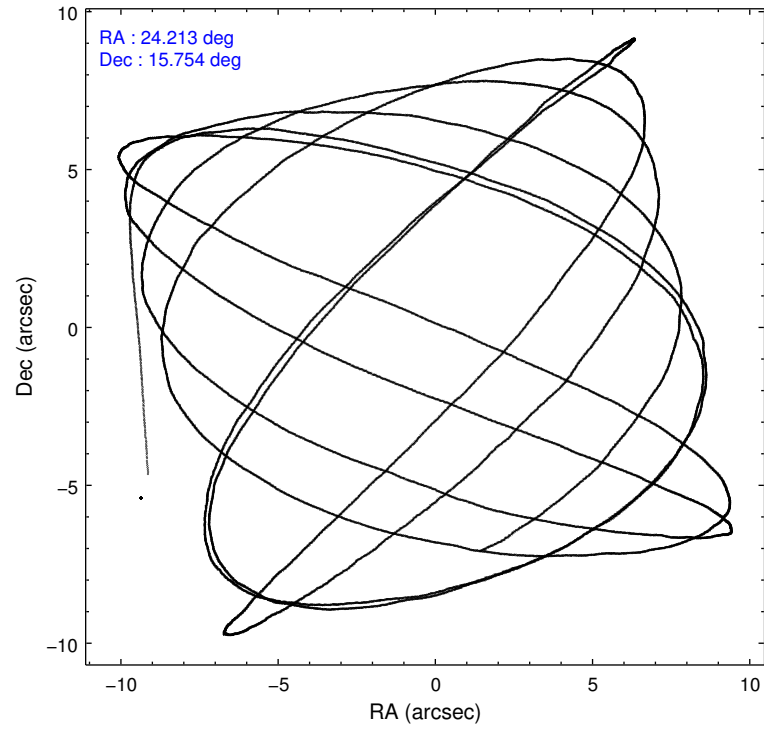
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	18387	16465	29296	16825	21452	26658
rejected events	14762	12701	12695	12898	11868	16265
rejected %	80%	77%	43%	76%	55%	61%

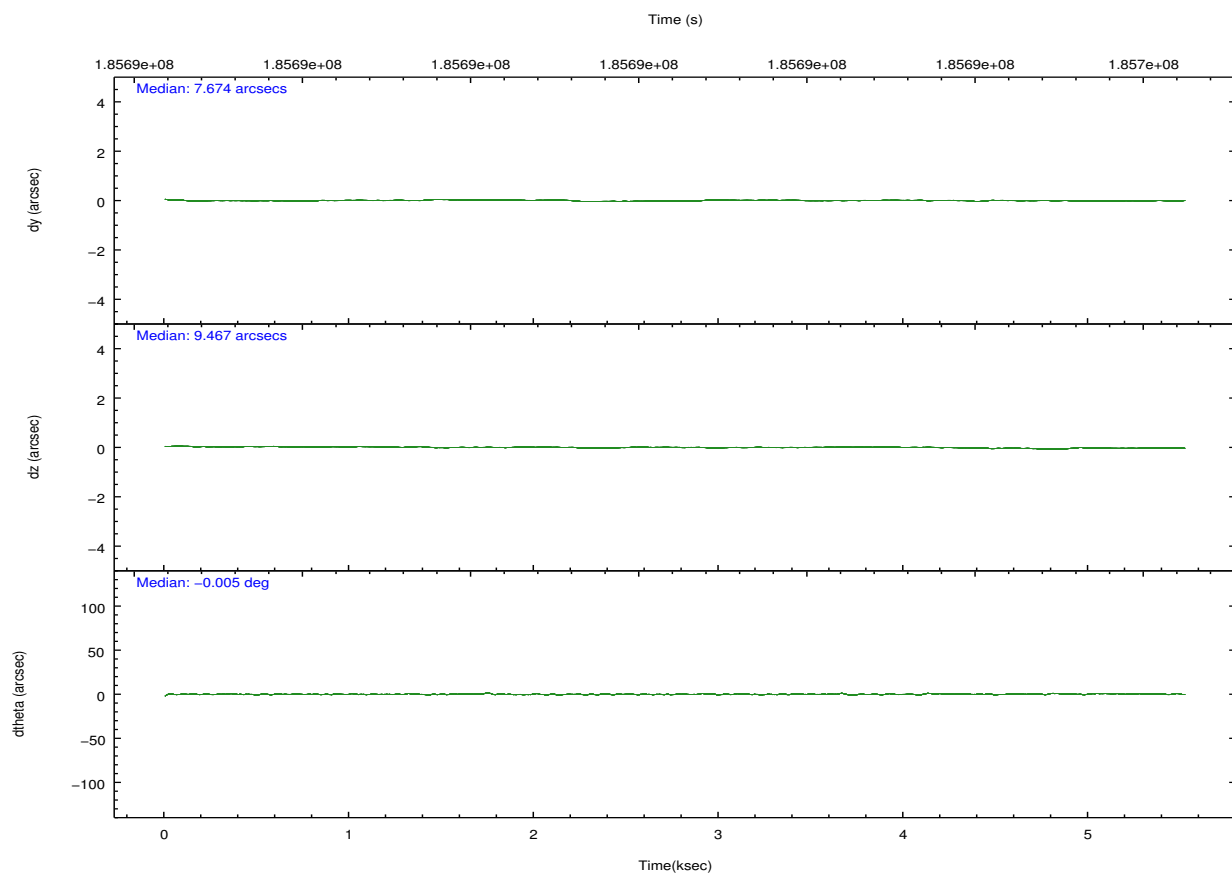
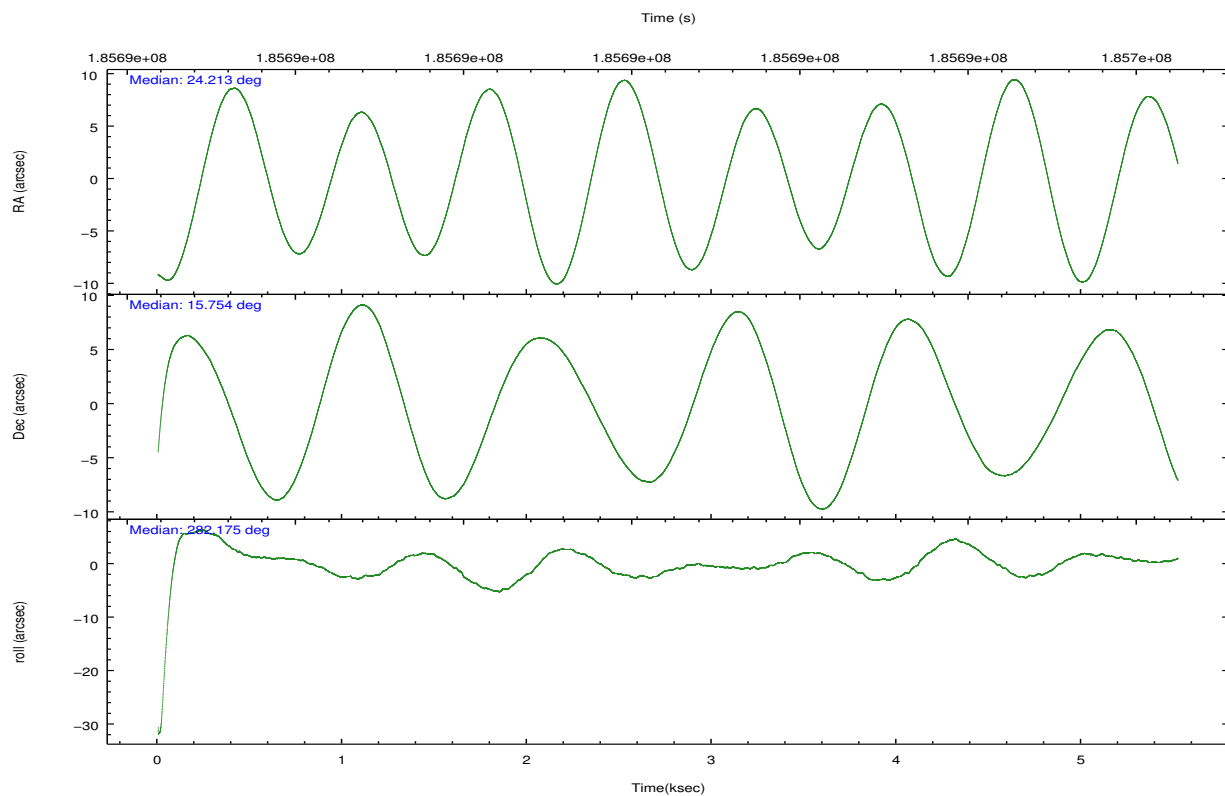
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1551	1479	6743	1517	1009	4121
	8%	8%	23%	9%	4%	15%
grade 1 events	8	9	46	7	26	27
	0%	0%	0%	0%	0%	0%
grade 2 events	904	1138	3231	1264	1988	1951
	4%	6%	11%	7%	9%	7%
grade 3 events	226	218	612	214	974	1298
	1%	1%	2%	1%	4%	4%
grade 4 events	238	226	602	239	884	1234
	1%	1%	2%	1%	4%	4%
grade 5 events	642	650	1718	689	1944	893
	3%	3%	5%	4%	9%	3%
grade 6 events	706	703	5421	695	4736	1791
	3%	4%	18%	4%	22%	6%
grade 7 events	14112	12042	10923	12200	9891	15343
	76%	73%	37%	72%	46%	57%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	24.194005	24.21333235133086	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	15.773322	15.75344860988745	Subarray start row	257	257
[deg] Pointing Roll	282.028062	282.1793526452202	Subarray row count	512	512
[s] Window start time (MET)	185683921.184000	185683921.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	185707140.184000	185707140.184000	[s] Primary exposure time	0.000000	1.8
[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)	185689984.184000	185688842.9911			
Observation start date	2003-11-20T04:32:00	2003-11-20T04:14:02			
[s] Observation end time (MET)	185694984.184000	185696138.42892			
Observation end date	2003-11-20T05:55:20	2003-11-20T06:15:38			
Read mode	TIMED	TIMED			

2.3 Aspect



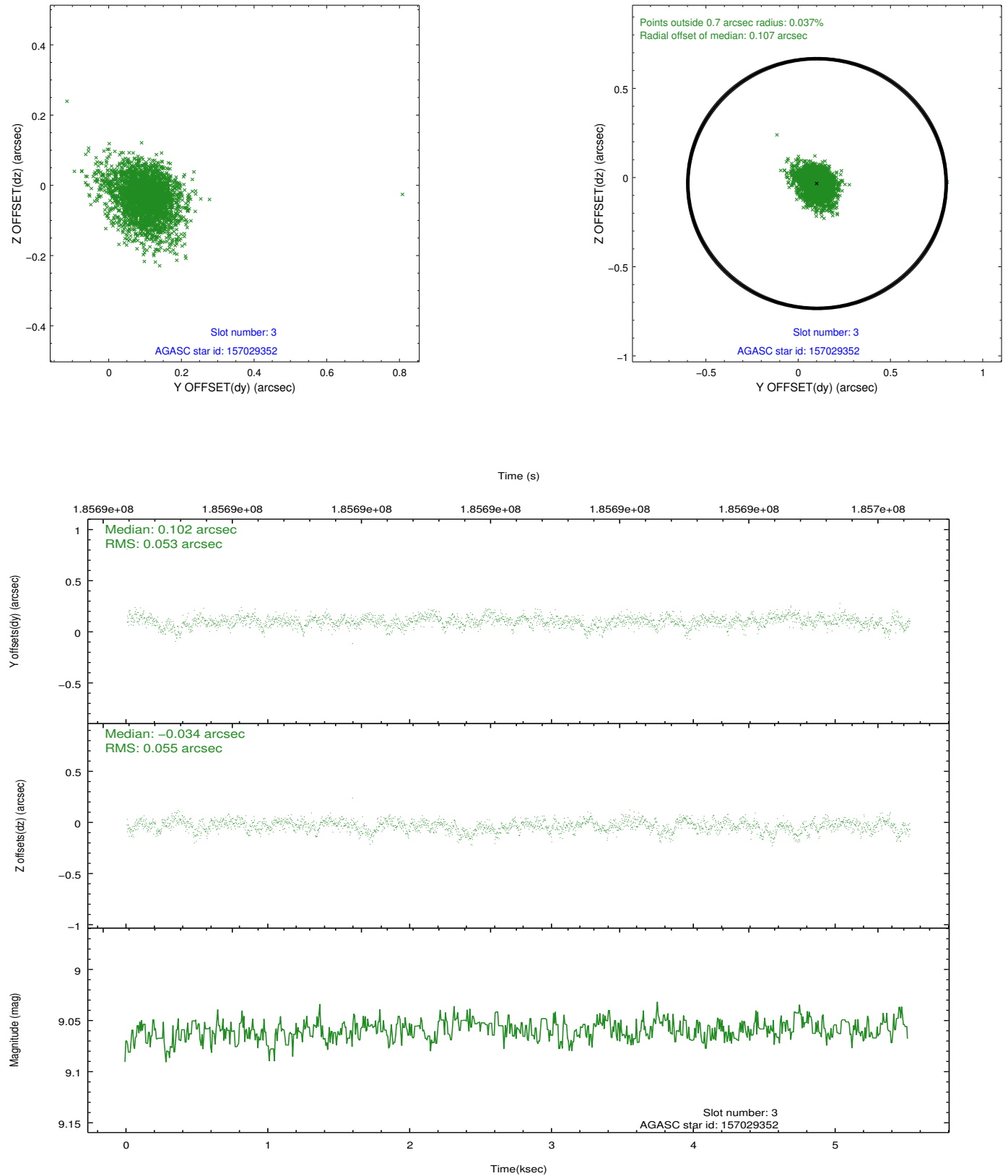


Slot Statistics

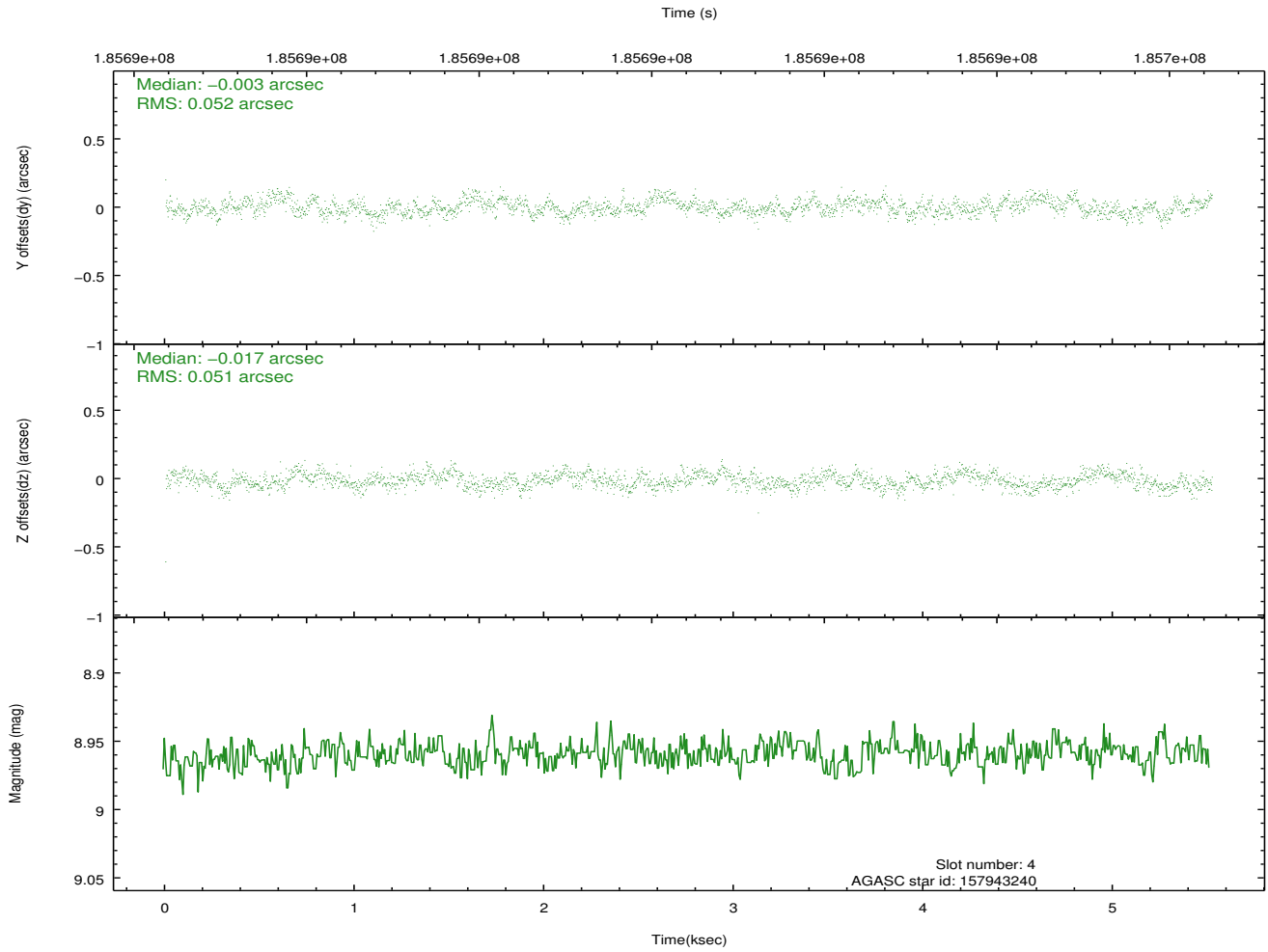
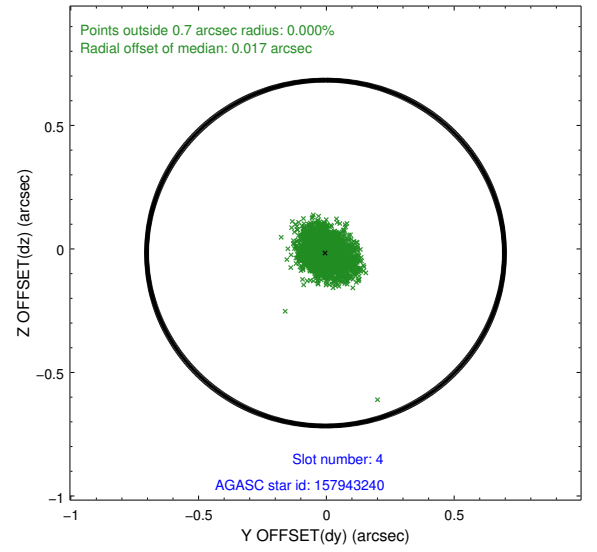
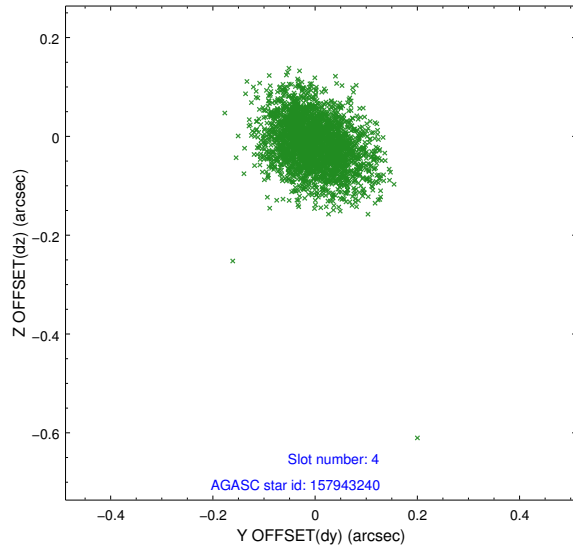
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1347	-0.029	-0.027	0.007	0.011	0.000000	0.000000	-760.45	-1730.73
1	FID	ACIS-S-4	7.20	1347	0.079	0.021	0.005	0.009	0.000000	0.000000	2152.42	176.72
2	FID	ACIS-S-5	7.23	1347	-0.081	0.014	0.007	0.012	0.000000	0.000000	-1811.97	171.56
3	GUIDE	157029352	9.06	2693	0.102	-0.034	0.078	0.133	23.764744	15.271289	1456.26	-1834.18
4	GUIDE	157943240	8.96	2694	-0.003	-0.017	0.076	0.125	24.500363	16.361777	-1851.39	1475.86
5	GUIDE	157953216	9.39	2694	0.134	0.061	0.084	0.139	24.189817	15.248642	1844.23	-407.08
6	GUIDE	157954272	8.71	2693	0.027	0.100	0.076	0.119	24.932144	15.423798	1761.24	2244.17
7	GUIDE	157036752	9.06	2692	-0.264	-0.116	0.099	0.163	23.400830	16.130370	-1832.86	-2413.44

2.4 Star Slots

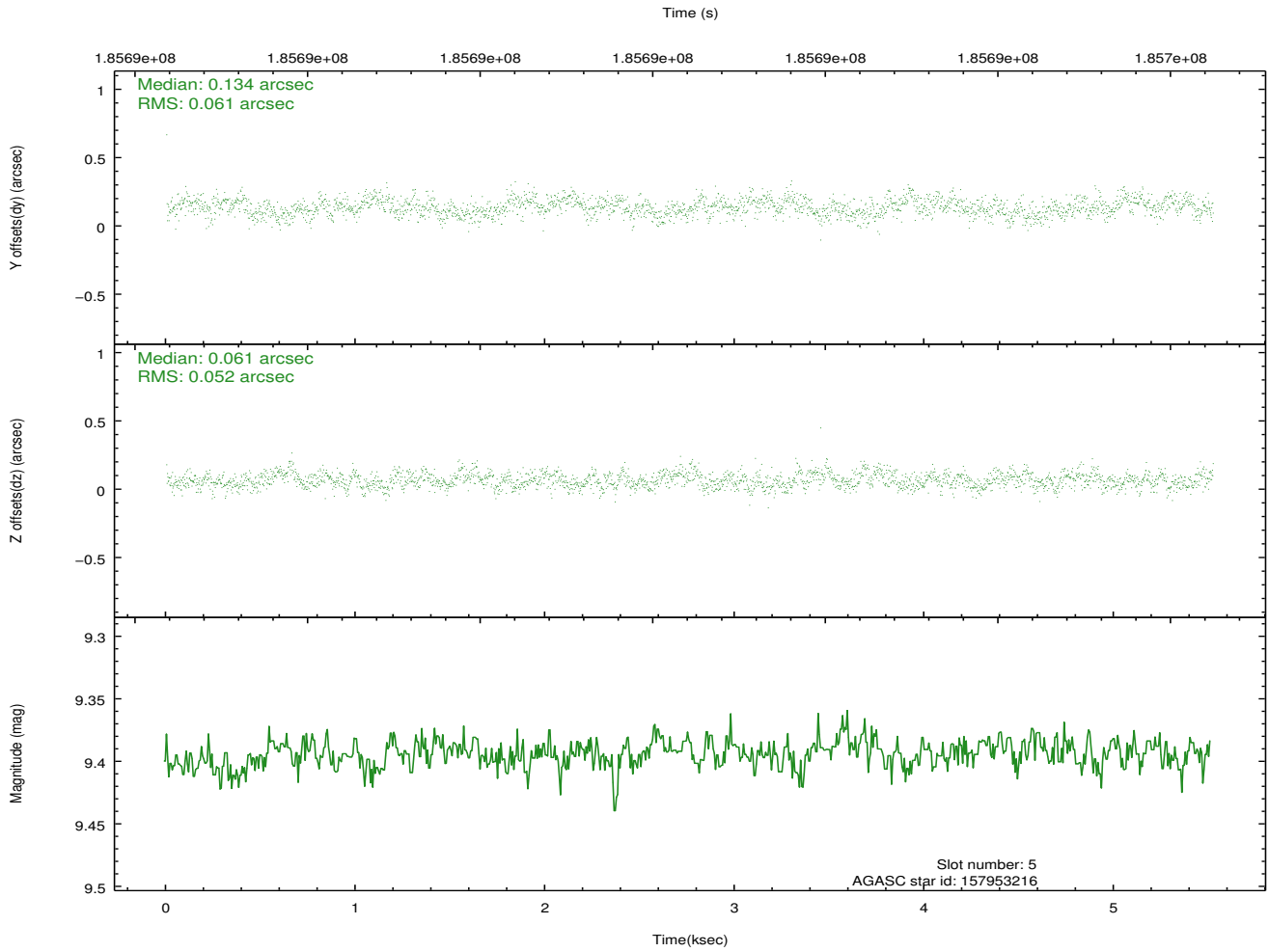
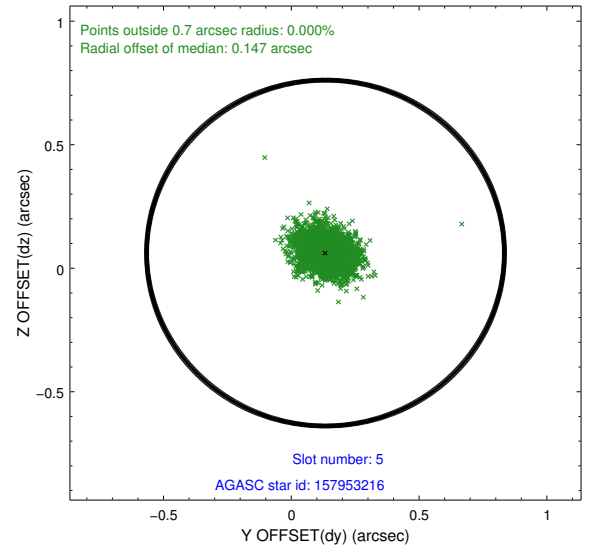
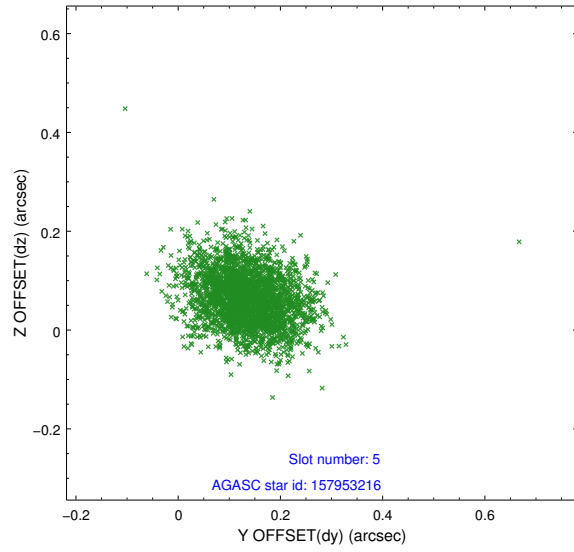
2.4.1 Slot 3



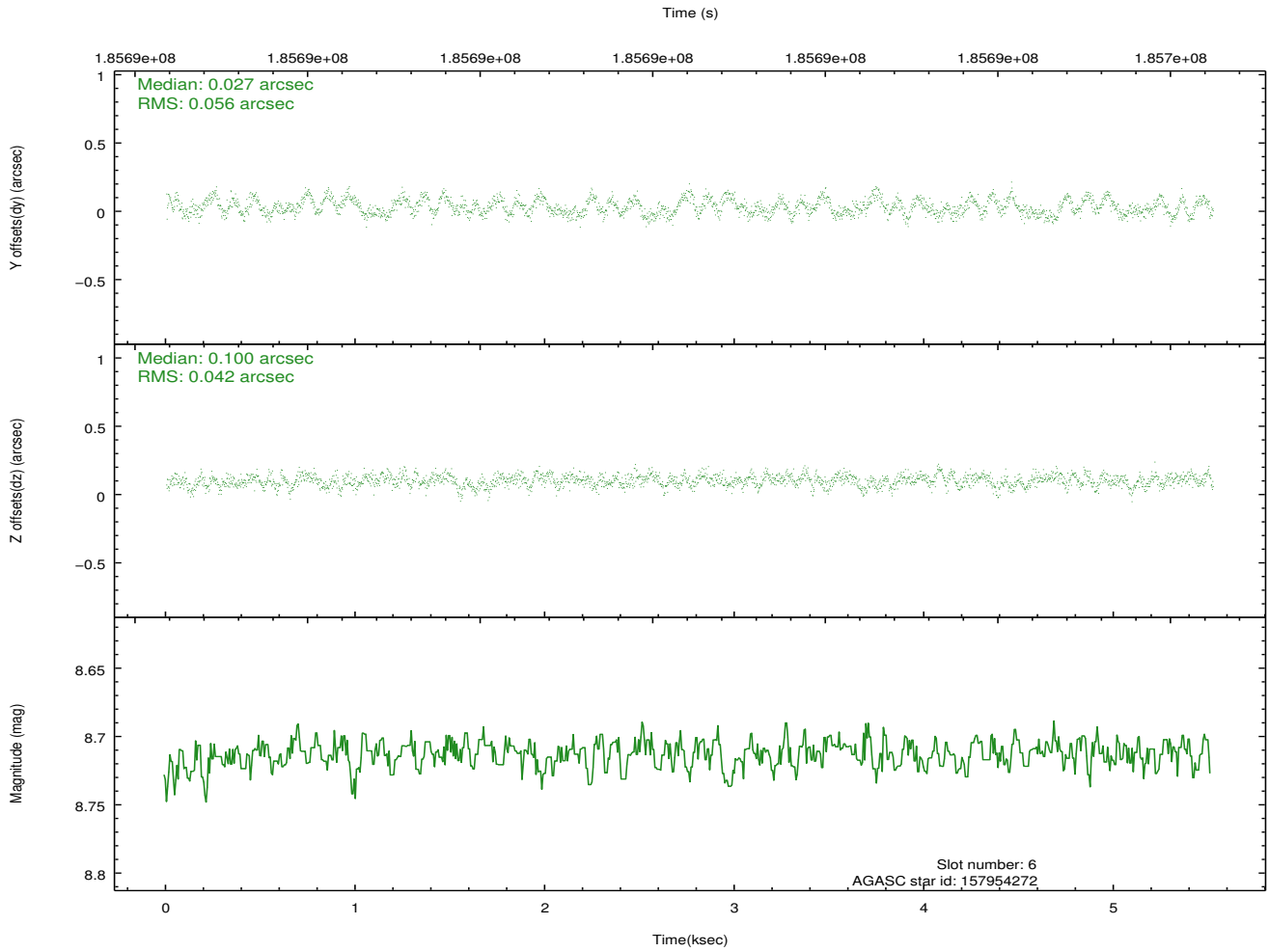
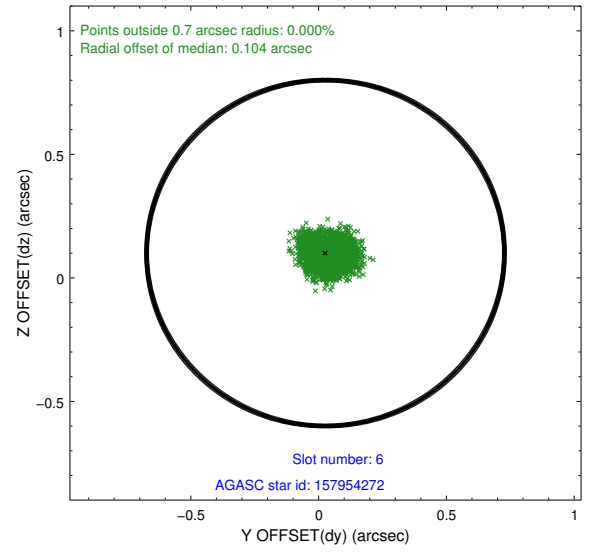
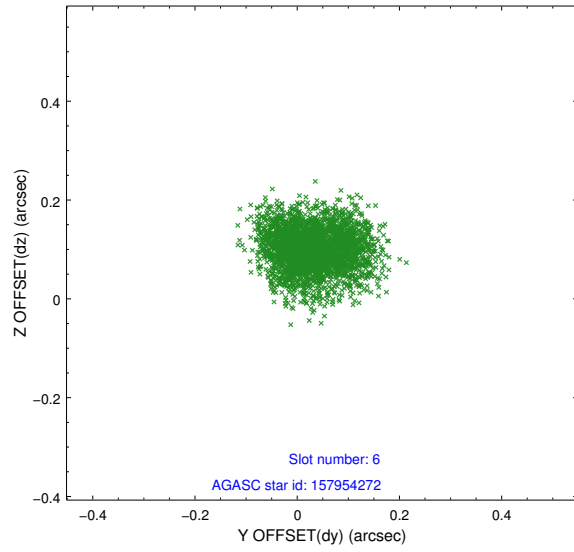
2.4.2 Slot 4



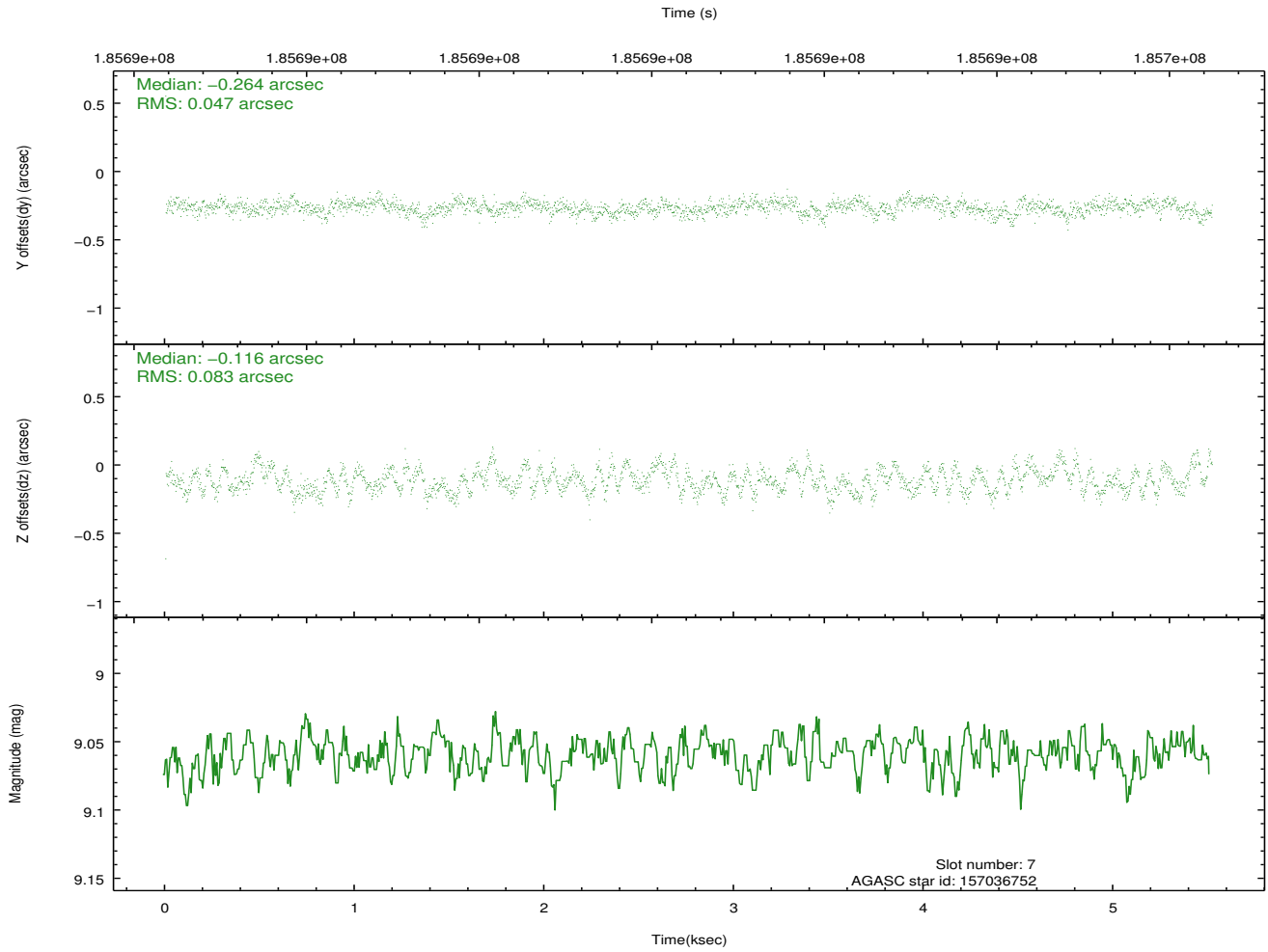
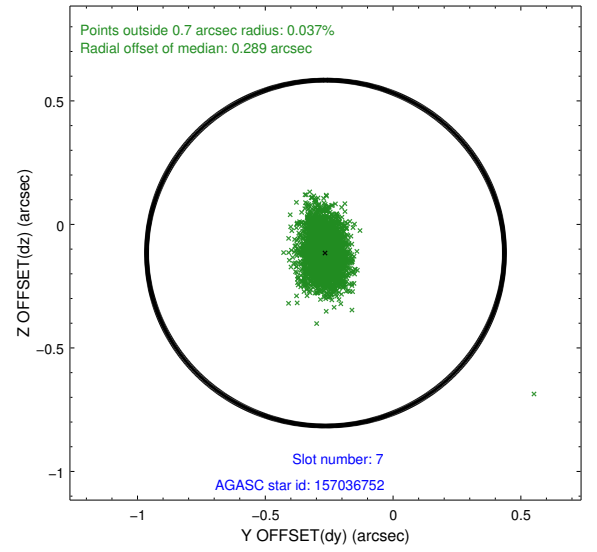
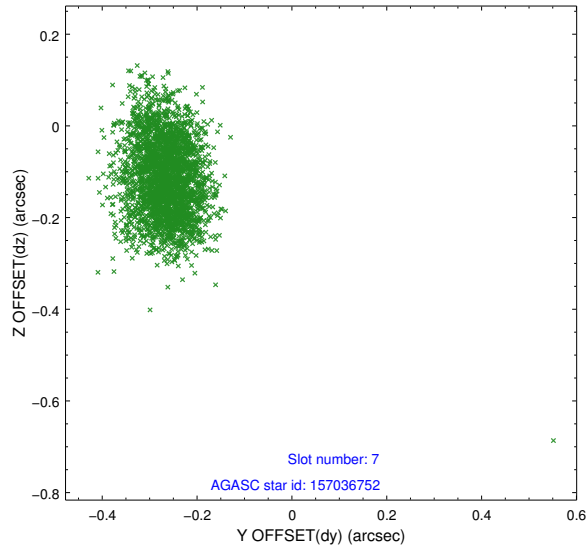
2.4.3 Slot 5



2.4.4 Slot 6

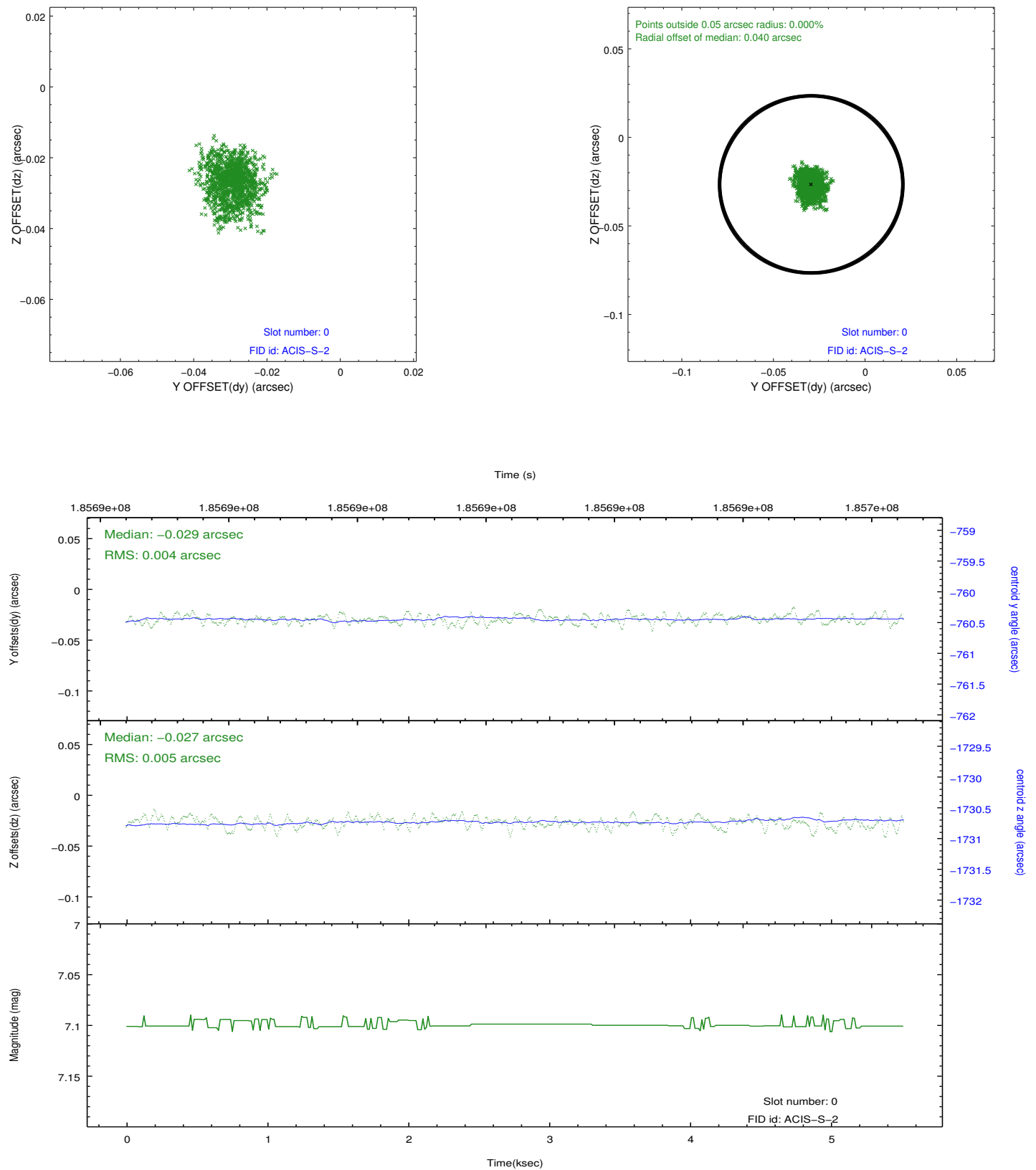


2.4.5 Slot 7

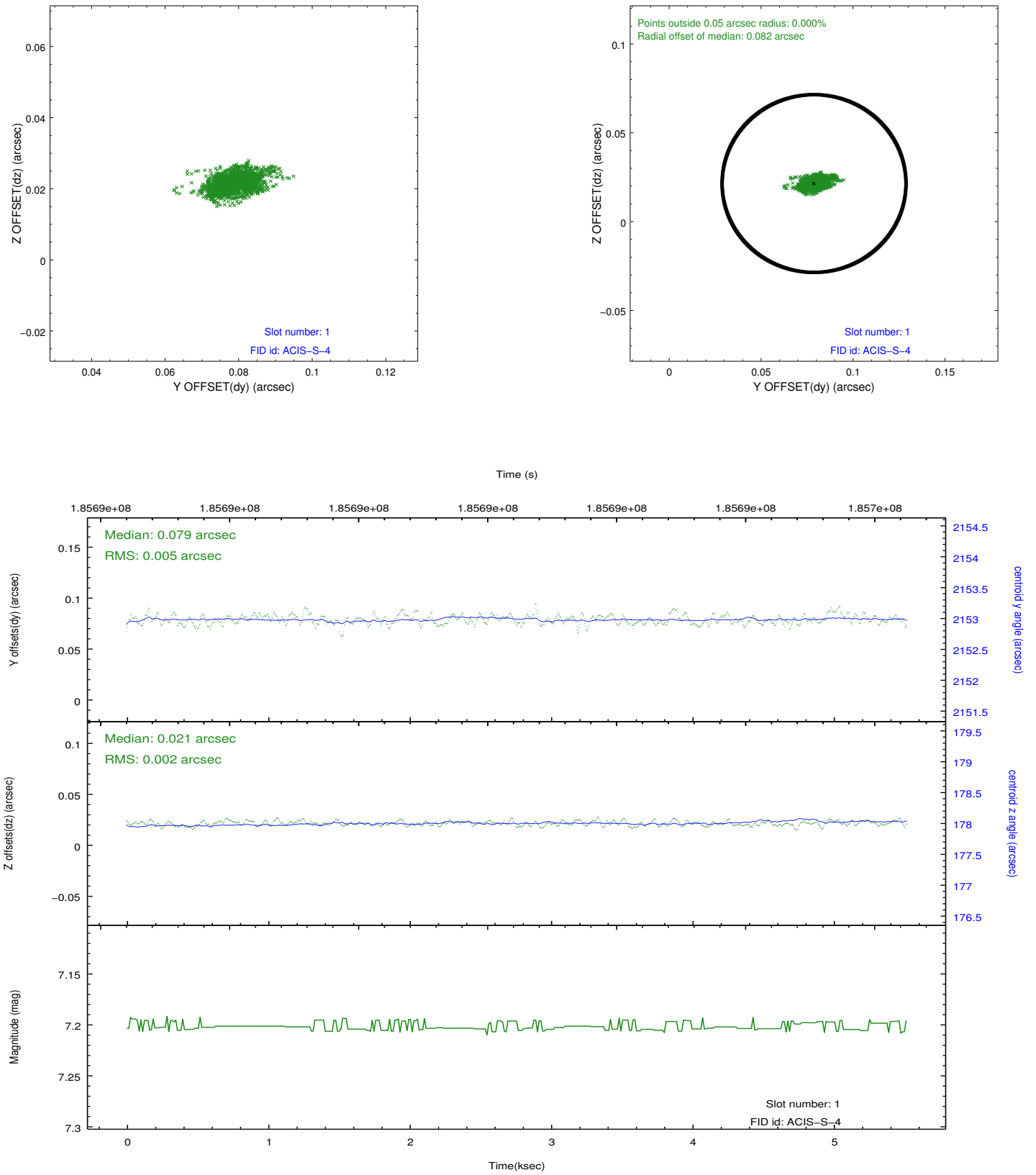


2.5 FID Slots

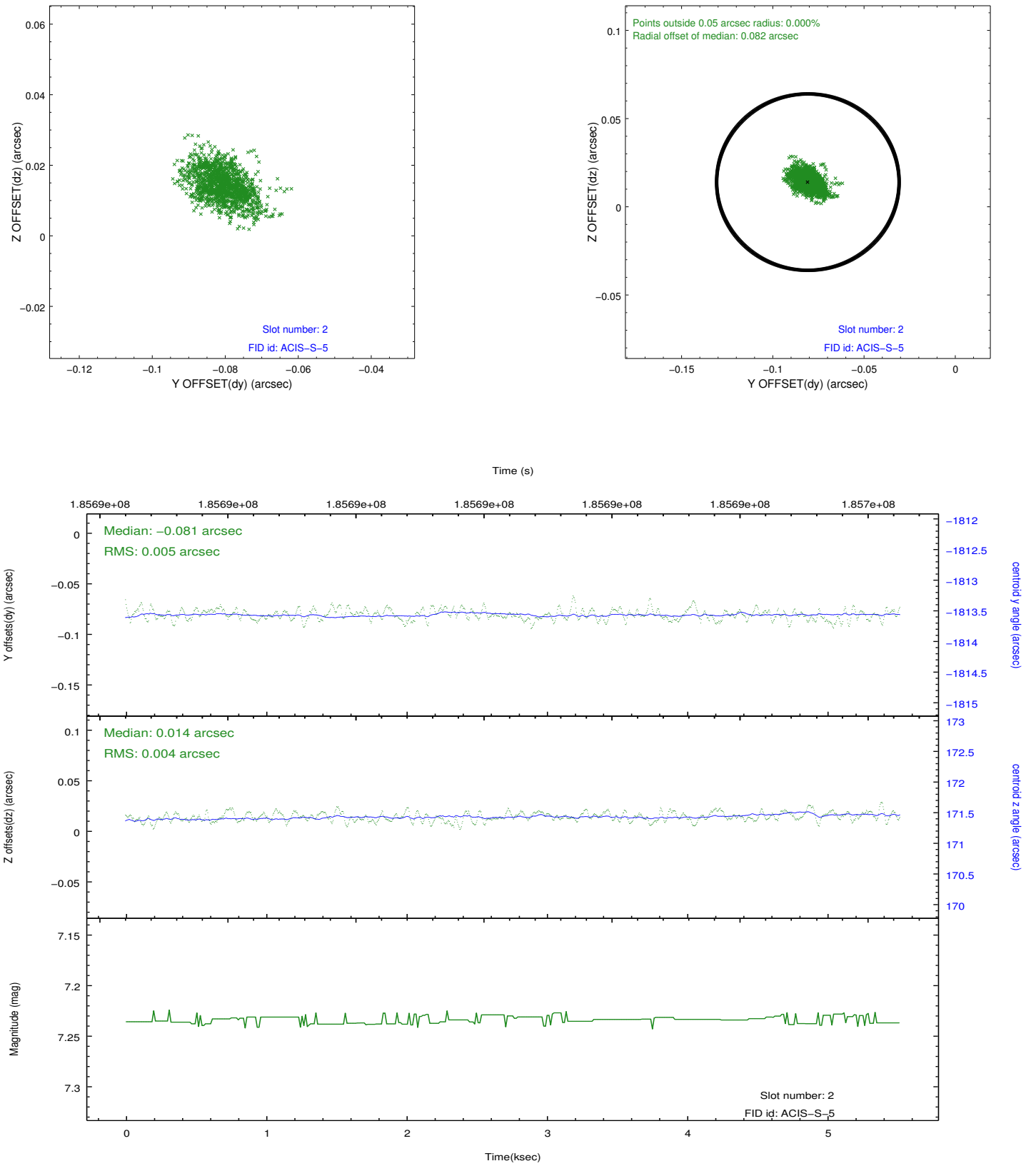
2.5.1 Slot 0



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)	2012.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.405

A.2 Comments

Window constraint met. Joint Proposal: CX0-HST