

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 7316 - L2 Version 2
Chandra X-Ray Center

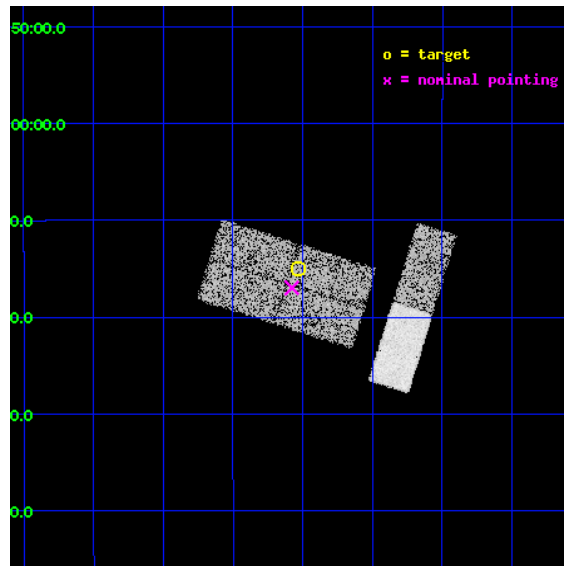
L2 Processing Date : Mar 28 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

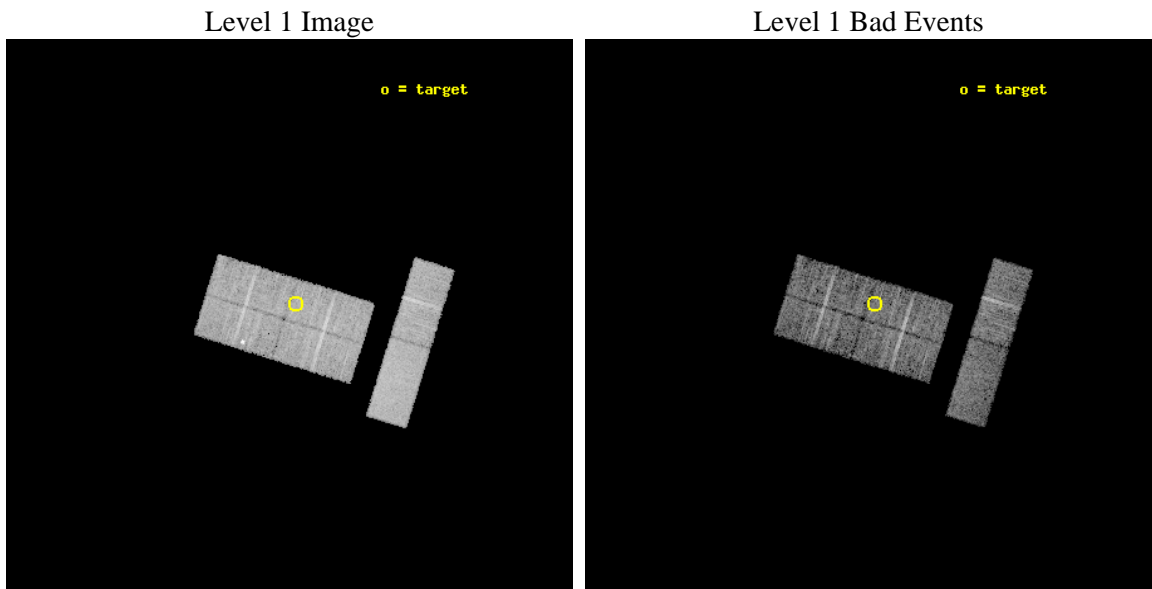
seq_num	100062	Sequence number
obs_id	7316	Observation id
title	Search for charge exchange induced X-ray emission in the Venusian exosphere	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	322.632165	Observer's specified target RA [deg]
dec_targ	-13.250687	Observer's specified target Dec [deg]
ra_nom	322.64431286668	Nominal RA [deg]
dec_nom	-13.283091240014	Nominal Dec [deg]
roll_nom	107.29657085298	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6388.2000423074	Sum of GTIs [s]
liveltime	6245.7958958813	Livetime [s]
ontime0	6388.2000423074	Sum of GTIs [s]
ontime1	6388.2000423074	Sum of GTIs [s]
ontime2	6388.2000423074	Sum of GTIs [s]
ontime3	6388.2000423074	Sum of GTIs [s]
ontime6	6388.2000423074	Sum of GTIs [s]
ontime7	6388.2000423074	Sum of GTIs [s]
l2events	30968	Number of level 2 events



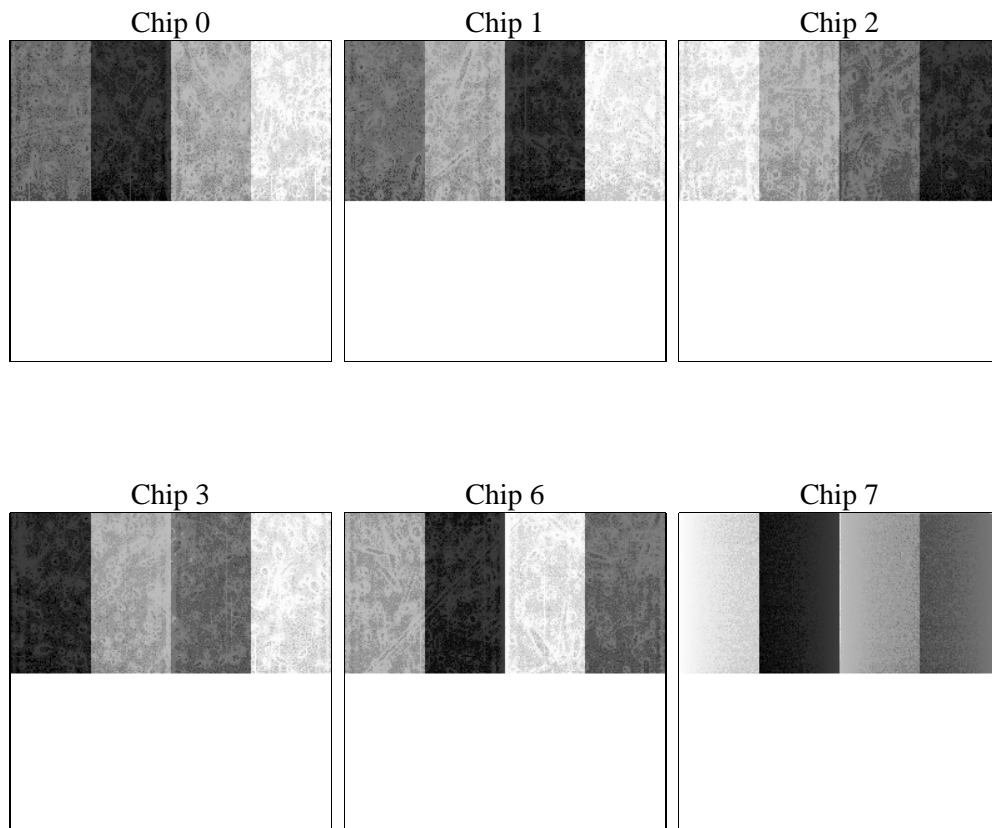
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	6388.2000423074	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	6388.2000423074	Sum of GTIs [s]
date	2012-03-28T21:42:29	Date and time of file creation	ontime1	6388.2000423074	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6388.2000423074	Sum of GTIs [s]
			ontime3	6388.2000423074	Sum of GTIs [s]
			ontime6	6388.2000423074	Sum of GTIs [s]
			ontime7	6388.2000423074	Sum of GTIs [s]
			l1events	197483	Number of level 1 events

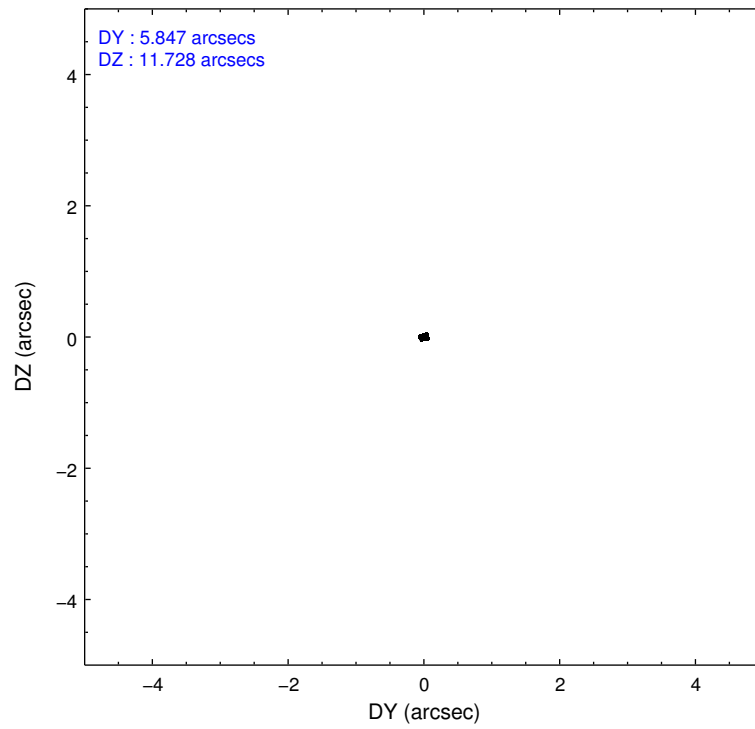
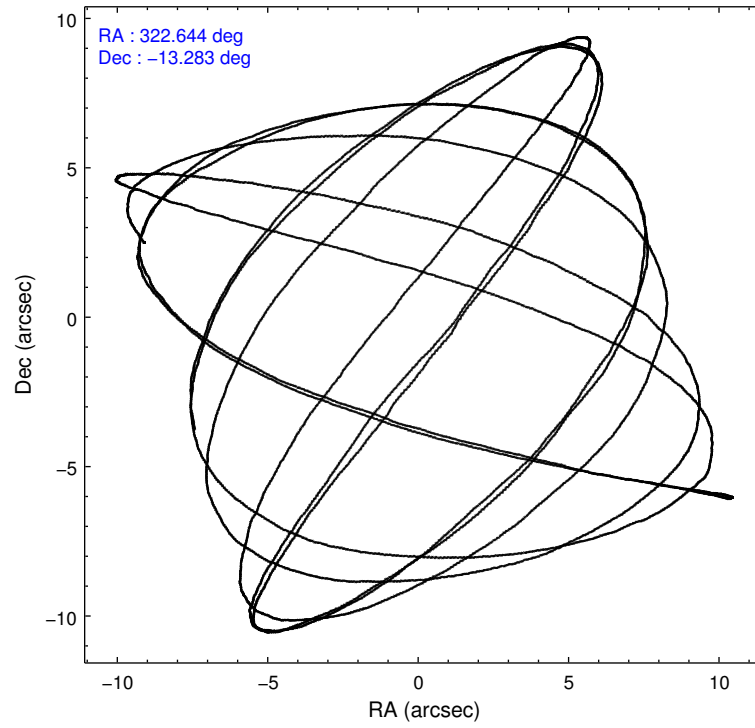
2.1.4 Events

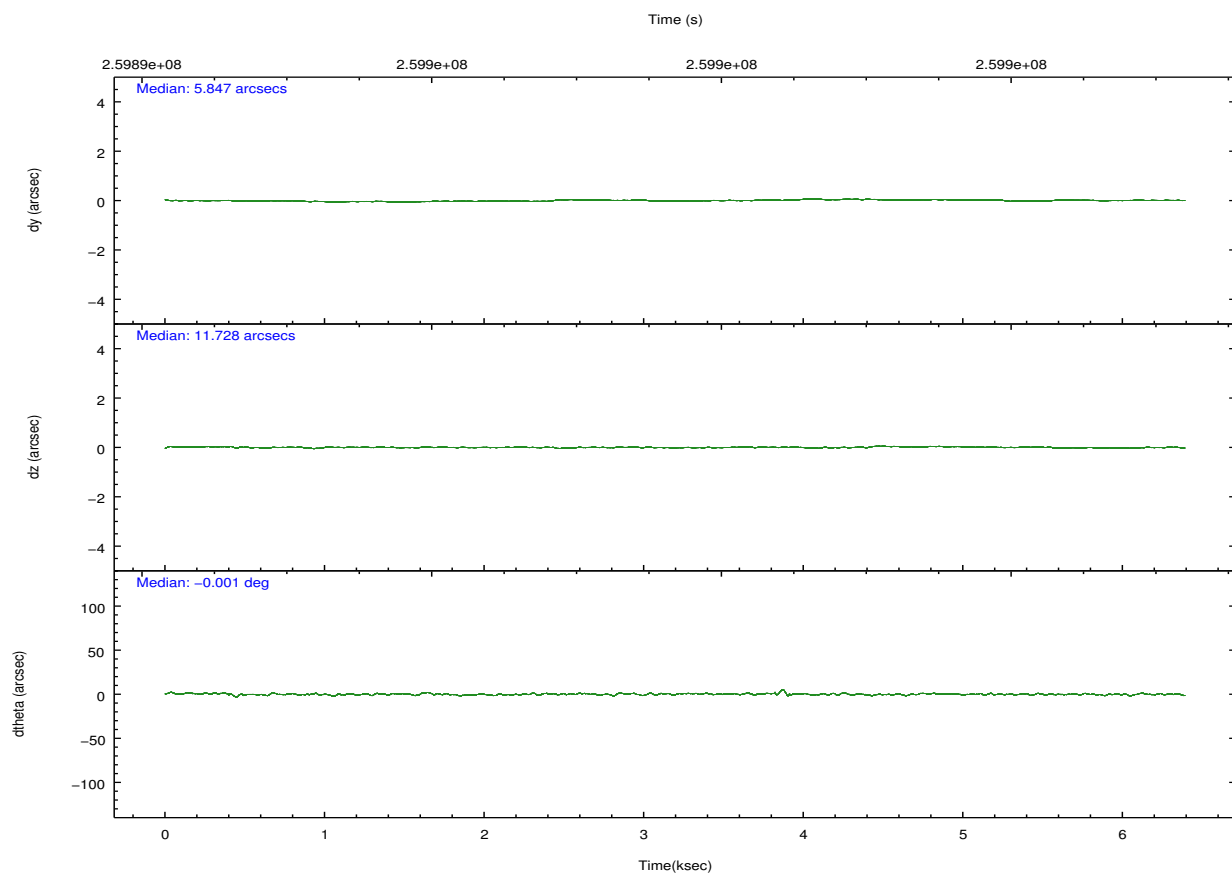
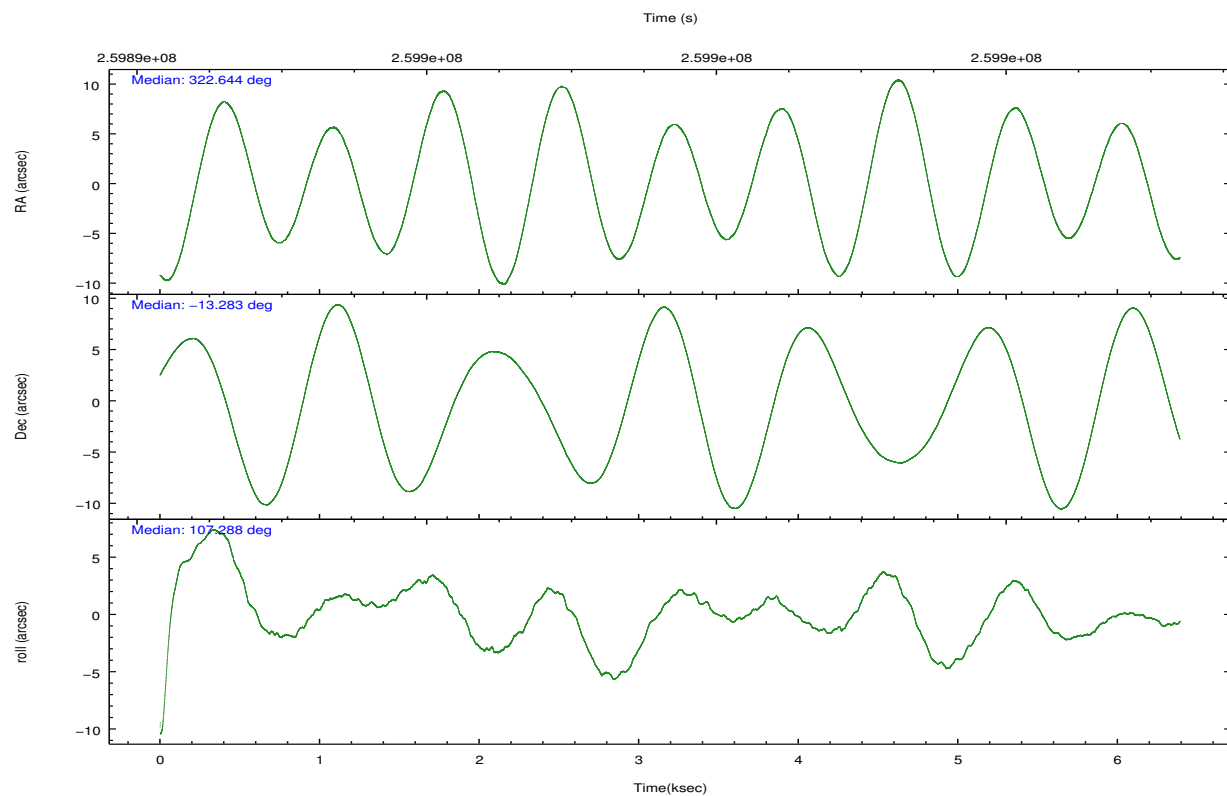
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	29293	29975	32494	30980	33764	40977	grade 0 events	1528	2633	1602	1399	1388	1519
rejected events	25783	25248	28934	27543	30152	24394		5%	8%	4%	4%	4%	3%
rejected %	88%	84%	89%	88%	89%	59%	grade 1 events	26	17	21	24	13	54
								0%	0%	0%	0%	0%	0%
							grade 2 events	738	774	708	672	756	3371
								2%	2%	2%	2%	2%	8%
							grade 3 events	377	381	391	436	457	1657
								1%	1%	1%	1%	1%	4%
							grade 4 events	383	410	403	441	416	1673
								1%	1%	1%	1%	1%	4%
							grade 5 events	1249	1213	1182	1408	1567	4043
								4%	4%	3%	4%	4%	9%
							grade 6 events	592	693	556	584	701	8869
								2%	2%	1%	1%	2%	21%
							grade 7 events	24400	23854	27631	26016	28466	19791
								83%	79%	85%	83%	84%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	322.665110	322.6443128666752	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	-13.301682	-13.28309124001378	Subarray start row	513	513
[deg] Pointing Roll	107.092680	107.2965708529848	Subarray row count	512	512
[s] Window start time (MET)	258076865.184000	258076865.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	261705665.184000	261705665.184000	[s] Primary exposure time	0.000000	1.8
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	259894672.184000	259894296.36111			
Observation start date	2006-03-28T00:56:47	2006-03-28T00:51:36			
[s] Observation end time (MET)	259900872.184000	259901576.42395			
Observation end date	2006-03-28T02:40:07	2006-03-28T02:52:56			
Read mode	TIMED	TIMED			

2.3 Aspect



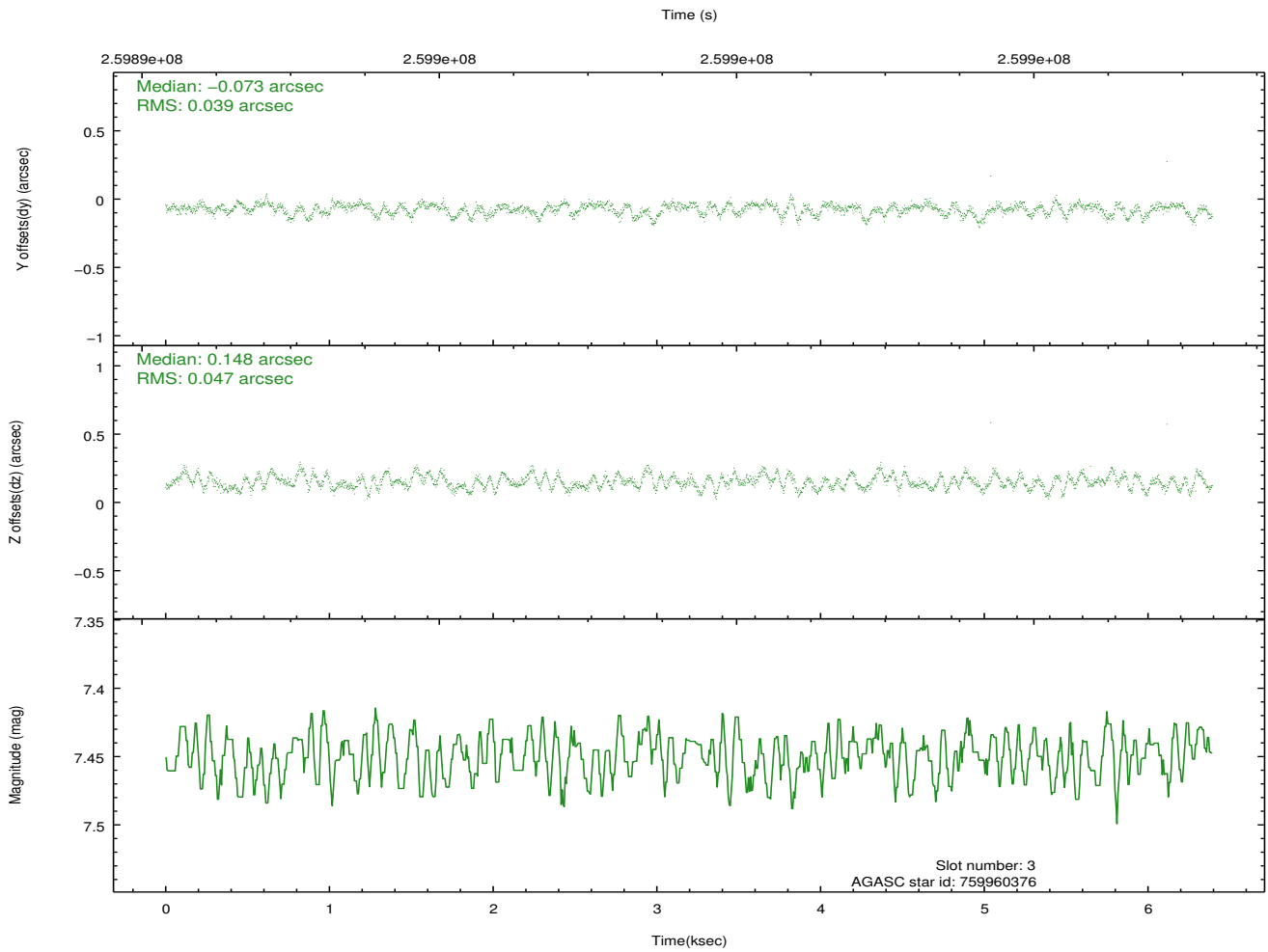
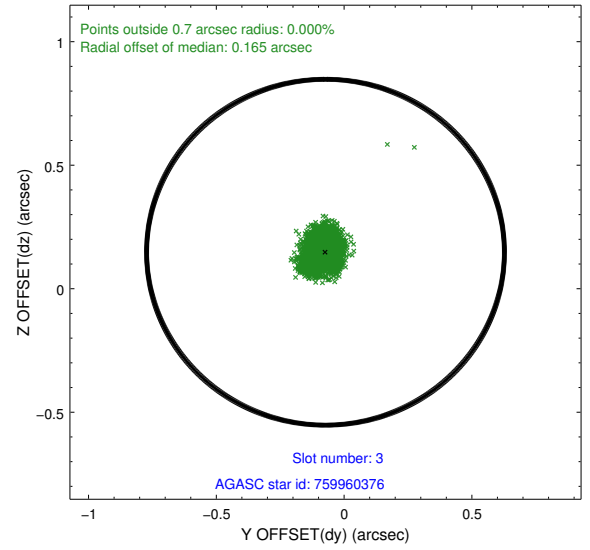
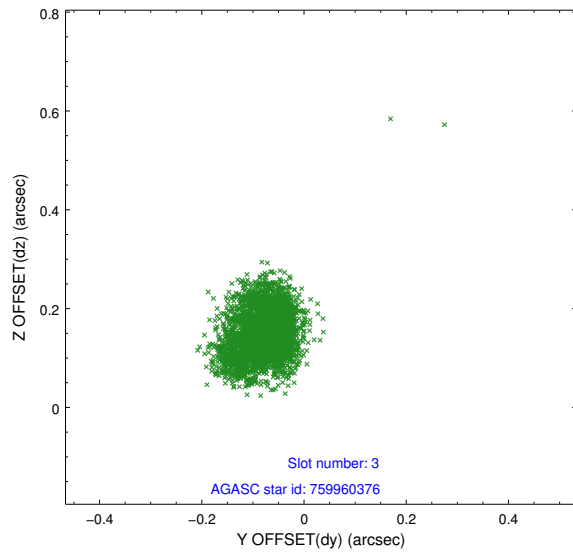


Slot Statistics

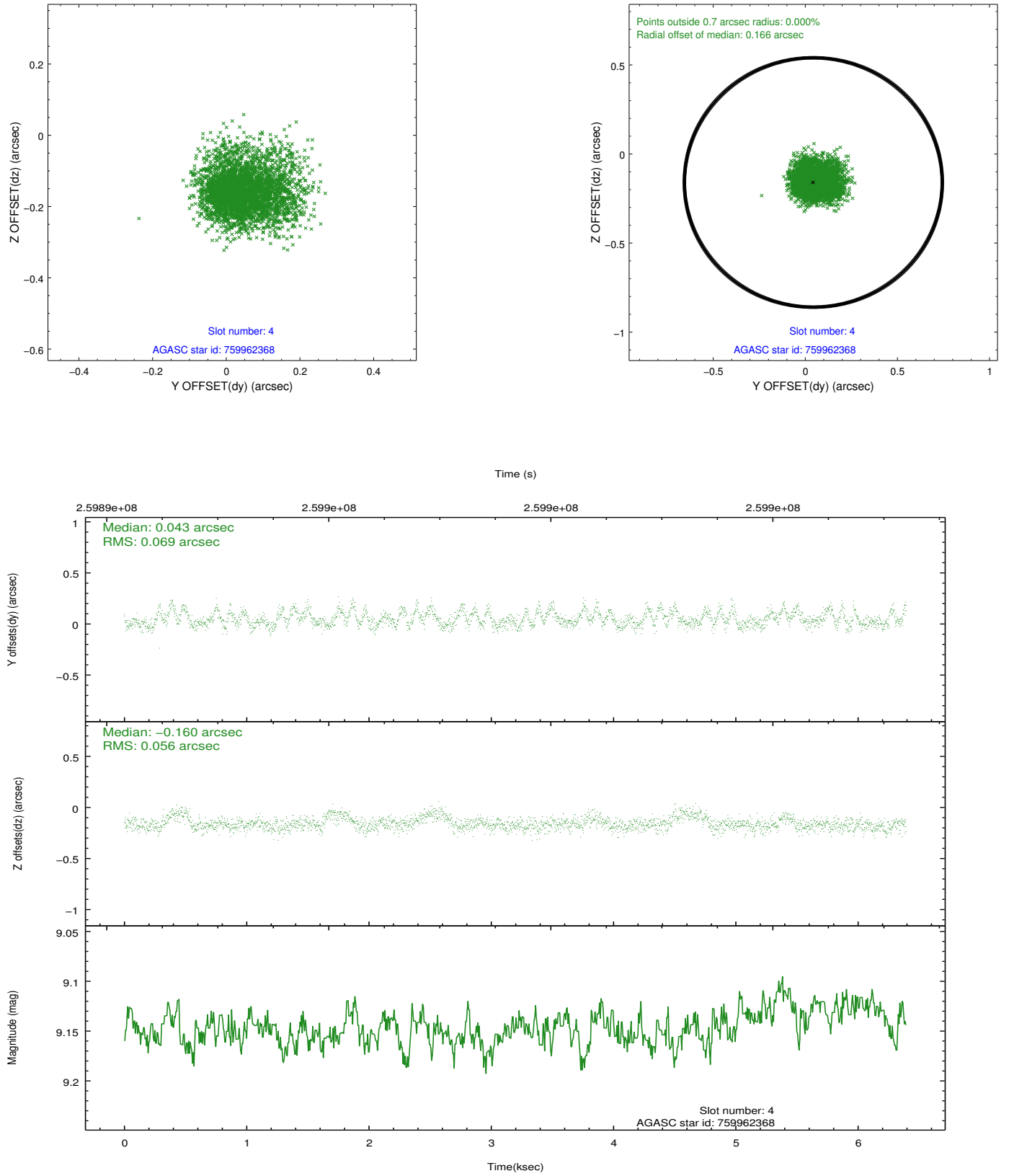
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	1559	0.021	-0.073	0.007	0.016	0.000000	0.000000	-760.31	-841.66
1	FID	ACIS-I-5	7.23	1559	-0.084	0.121	0.007	0.016	0.000000	0.000000	-1814.88	1061.94
2	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	759960376	7.45	3118	-0.073	0.148	0.065	0.103	323.393043	-13.450092	-1263.35	-2277.73
4	GUIDE	759962368	9.15	3117	0.043	-0.160	0.094	0.158	322.267195	-13.797795	-1300.15	1854.46
5	GUIDE	759964560	6.38	3119	-0.009	-0.230	0.049	0.079	322.417320	-14.026945	-2242.90	1595.33
6	GUIDE	759957904	9.53	3117	-0.022	0.178	0.088	0.146	323.275906	-13.544143	-1465.76	-1785.11
7	GUIDE	759955760	9.00	3116	0.058	0.063	0.075	0.125	323.196431	-13.459161	-1090.88	-1611.05

2.4 Star Slots

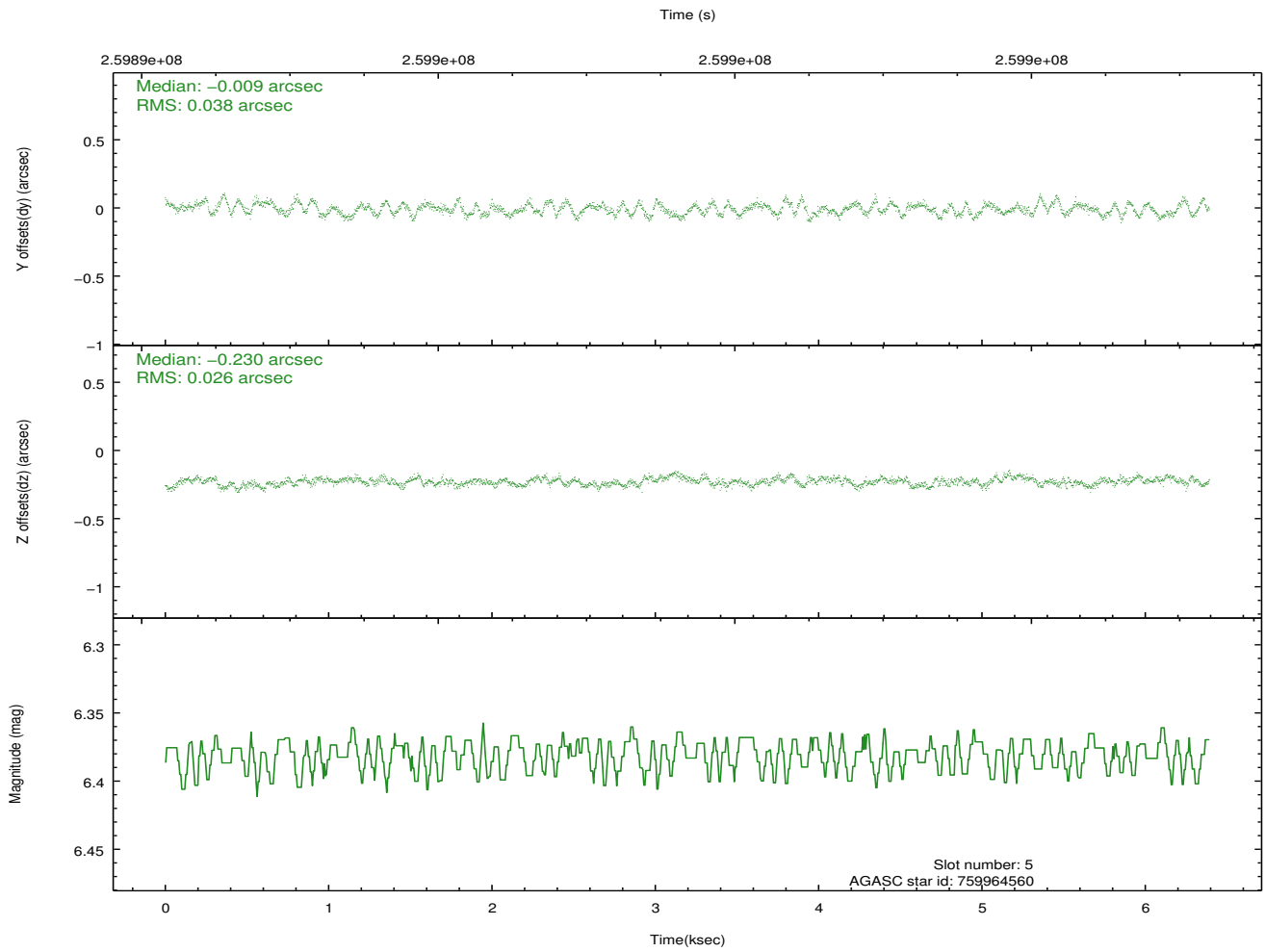
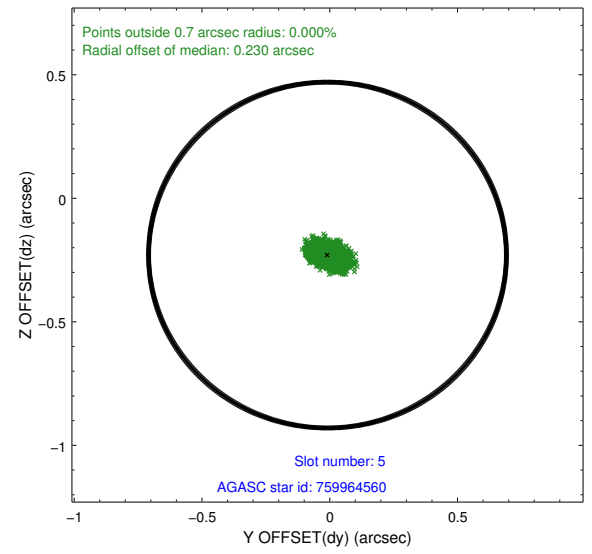
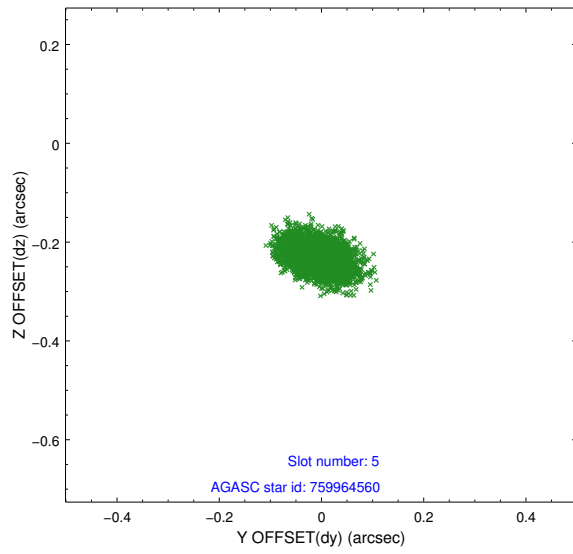
2.4.1 Slot 3



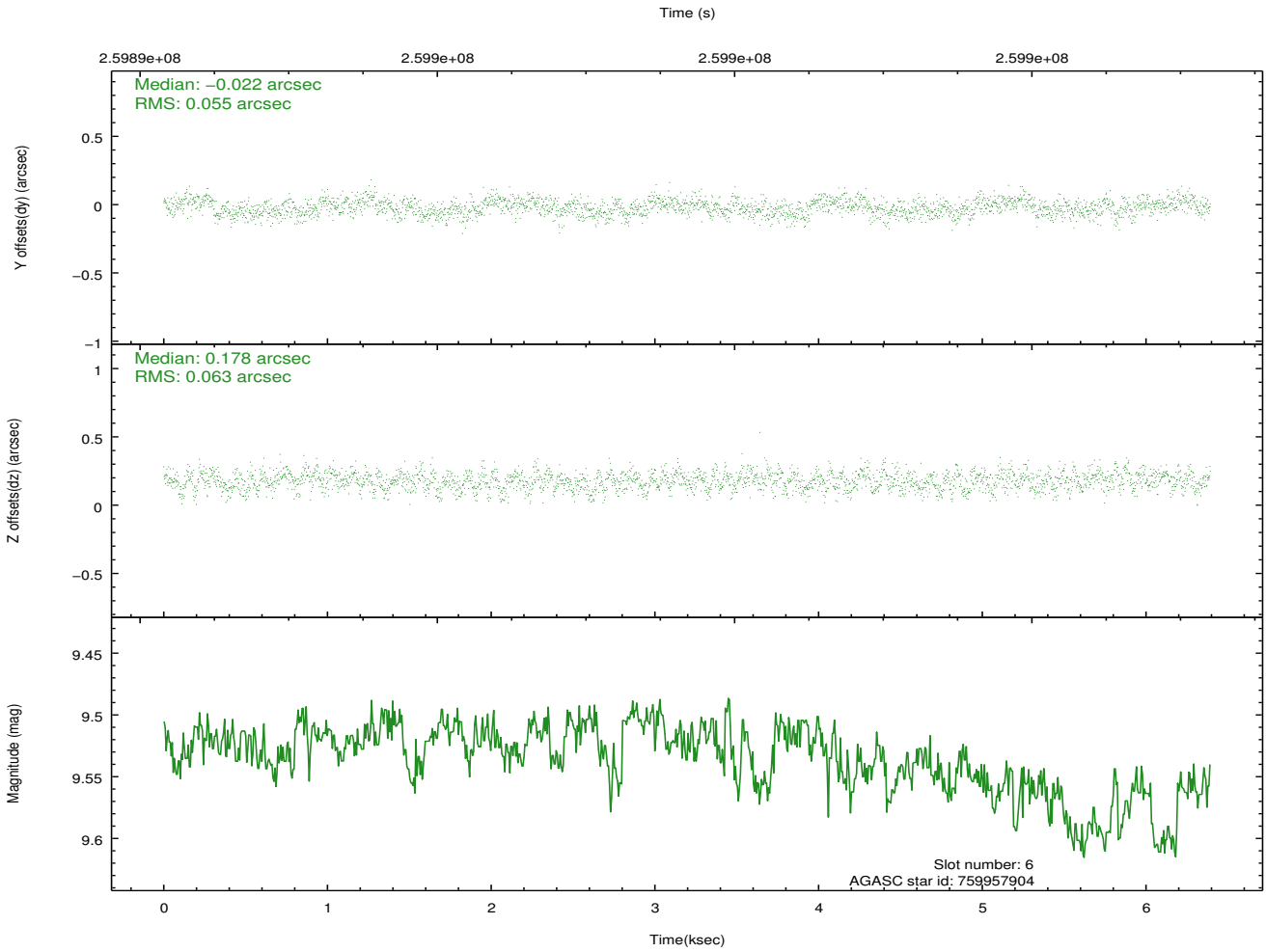
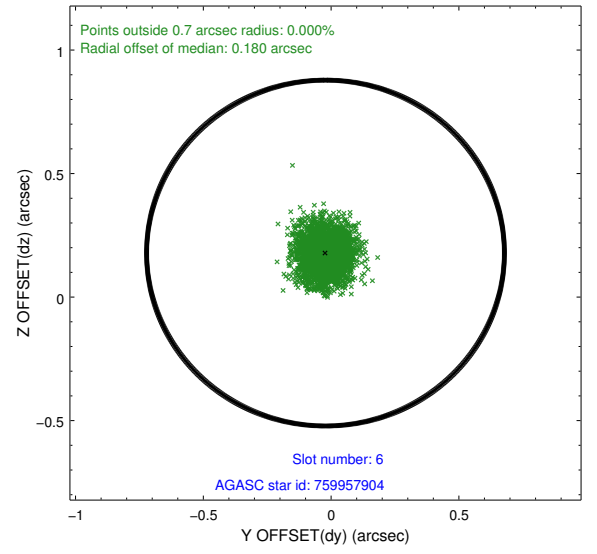
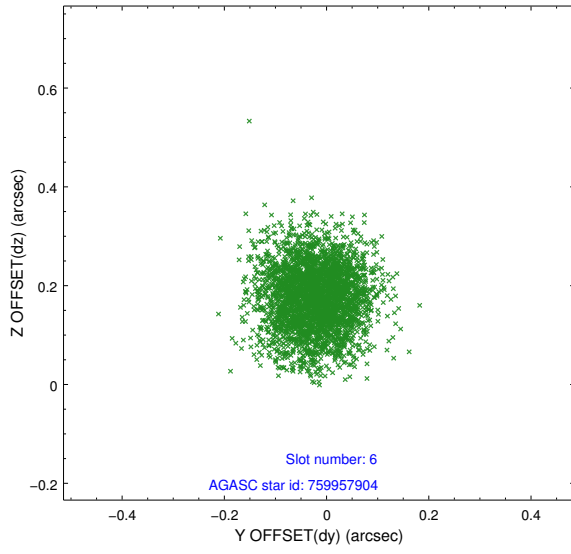
2.4.2 Slot 4



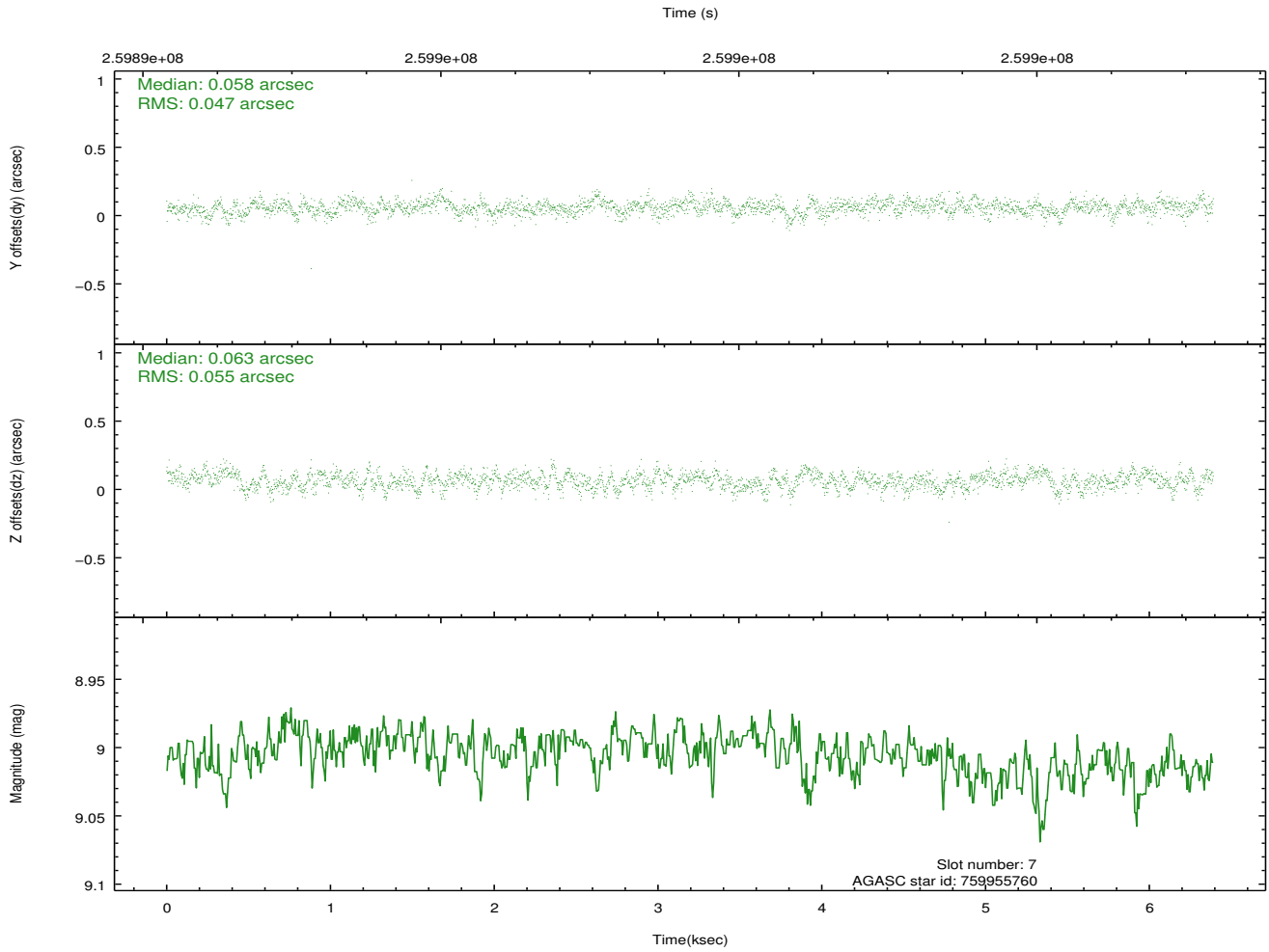
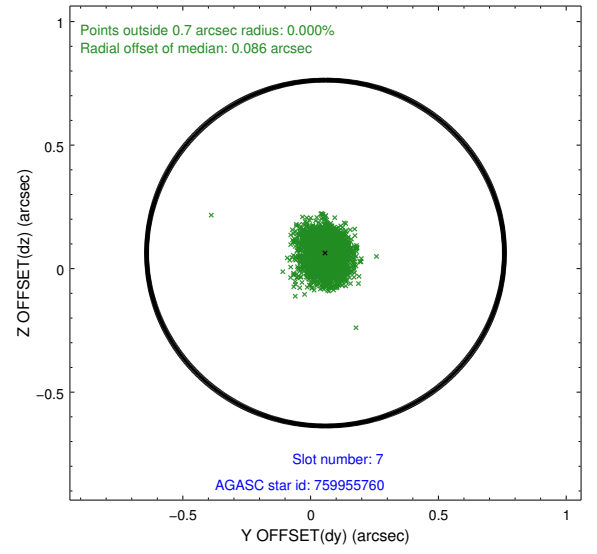
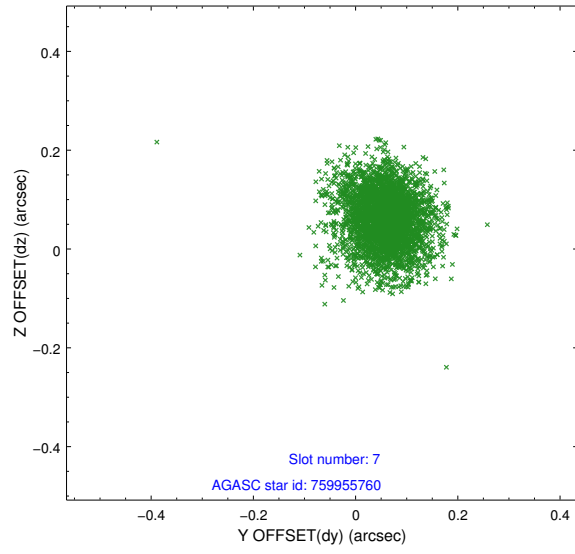
2.4.3 Slot 5



2.4.4 Slot 6

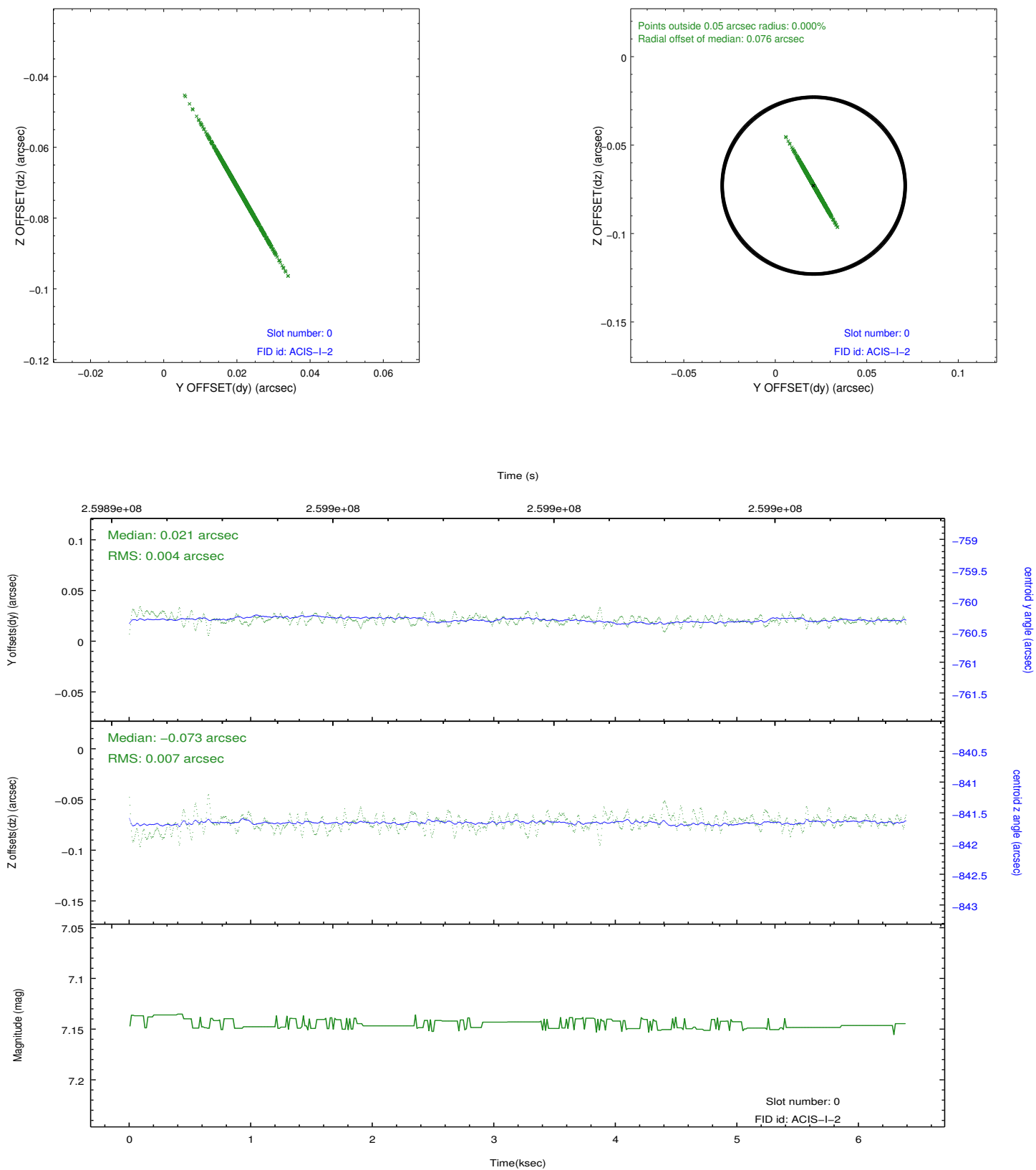


2.4.5 Slot 7

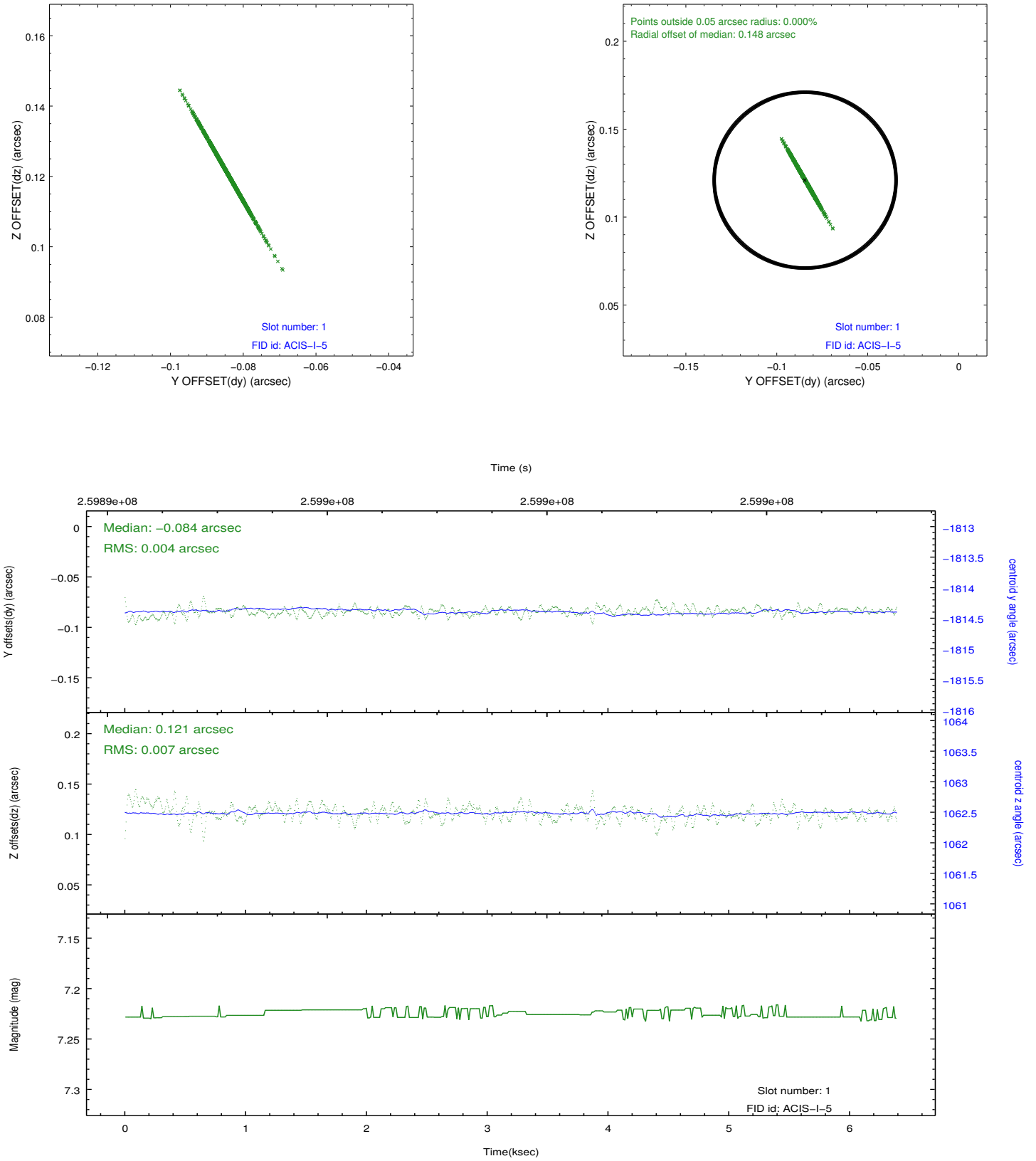


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.03.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.38820004

A.2 Comments

Window preference met.

Slot 2 was not utilized in this observation.