

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 17752 - L2 Version 1
Chandra X-Ray Center

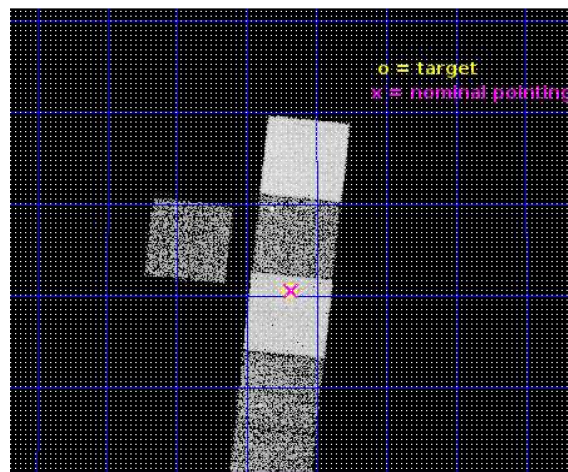
L2 Processing Date : Oct 13 2016

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
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

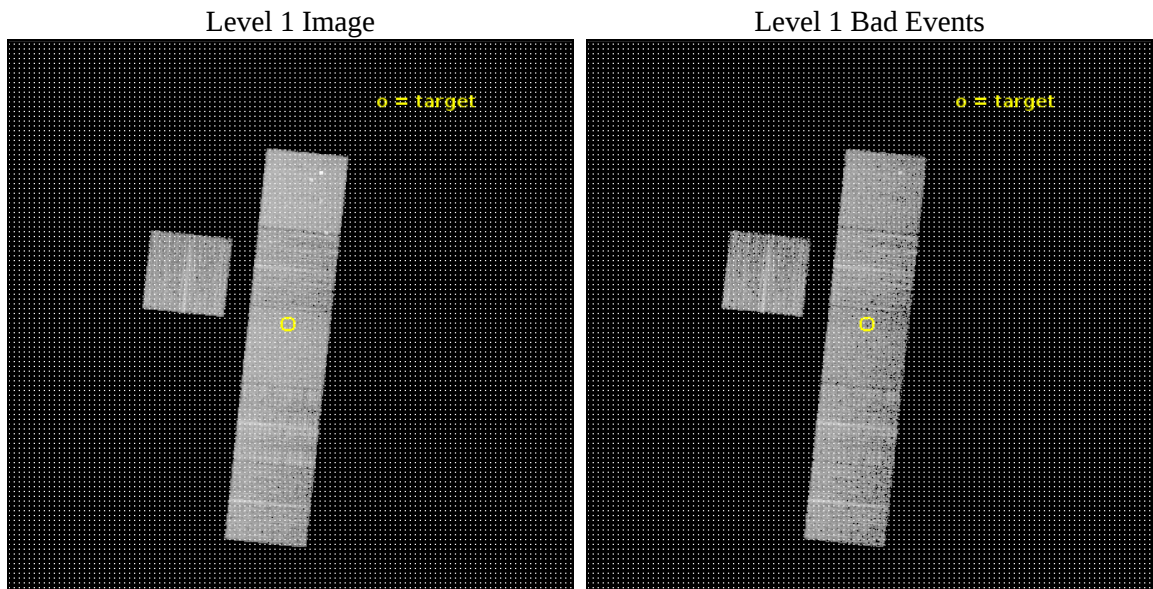
seq_num	201061	Sequence number
obs_id	17752	Observation id
title	Understanding the Rotation/Activity Relation: A New Low-Mass, Extreme-Spin Sample	Proposal title
observer	Peter Williams	Principal investigator
object	2MASS J03251116+1300334	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	51.2975	Observer's specified target RA [deg]
dec_targ	13.009306	Observer's specified target Dec [deg]
ra_nom	51.294911237009	Nominal RA [deg]
dec_nom	13.009722911342	Nominal Dec [deg]
roll_nom	95.922265107149	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6885.8906207085	Sum of GTIs [s]
livetime	6798.6973274835	Livetime [s]
ontime2	6885.7264606953	Sum of GTIs [s]
ontime5	6885.8495806456	Sum of GTIs [s]
ontime6	6885.8085407019	Sum of GTIs [s]
ontime7	6885.8906207085	Sum of GTIs [s]
ontime8	6885.767500639	Sum of GTIs [s]
ontime9	6885.9316606522	Sum of GTIs [s]
l2events	76635	Number of level 2 events



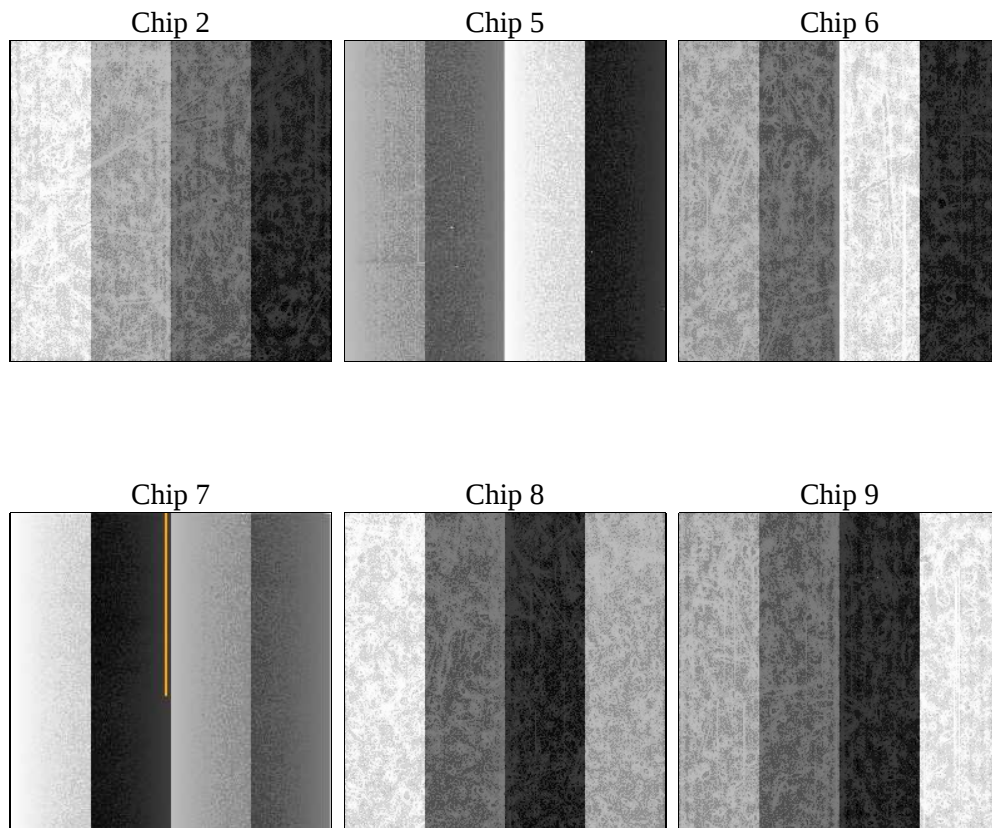
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6930.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	6885.8906207085	Sum of GTIs [s]
caldbver	4.7.2	 	ontime2	6885.7264606953	Sum of GTIs [s]
date	2016-10-13T15:40:18	Date and time of file creation	ontime5	6885.8495806456	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	6885.8085407019	Sum of GTIs [s]
			ontime7	6885.8906207085	Sum of GTIs [s]
			ontime8	6885.767500639	Sum of GTIs [s]
			ontime9	6885.9316606522	Sum of GTIs [s]
			l1events	329217	Number of level 1 events

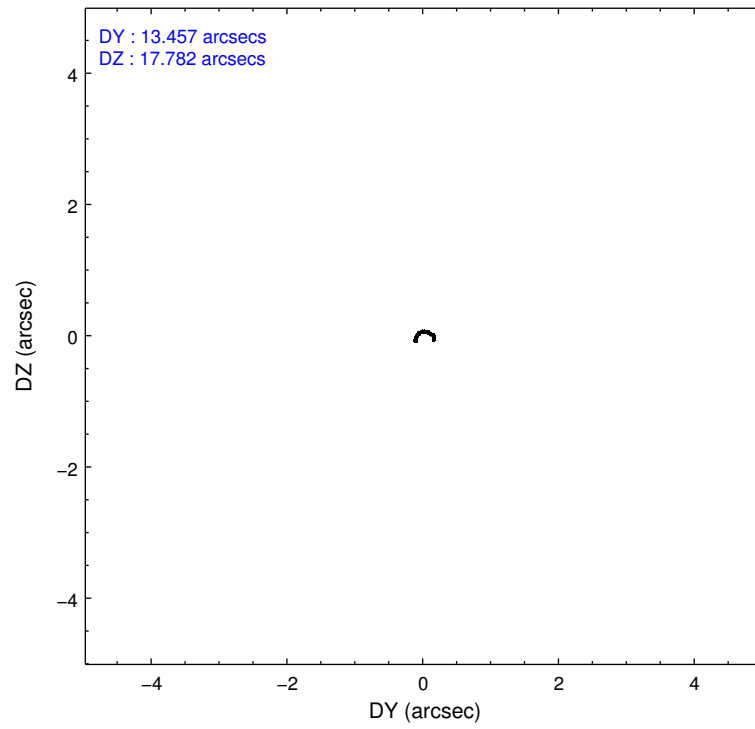
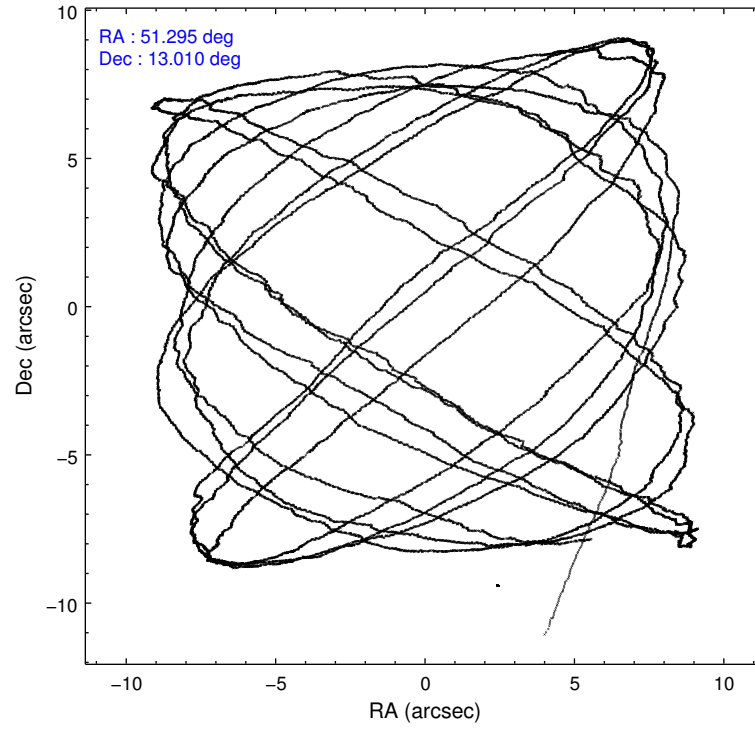
2.1.4 Events

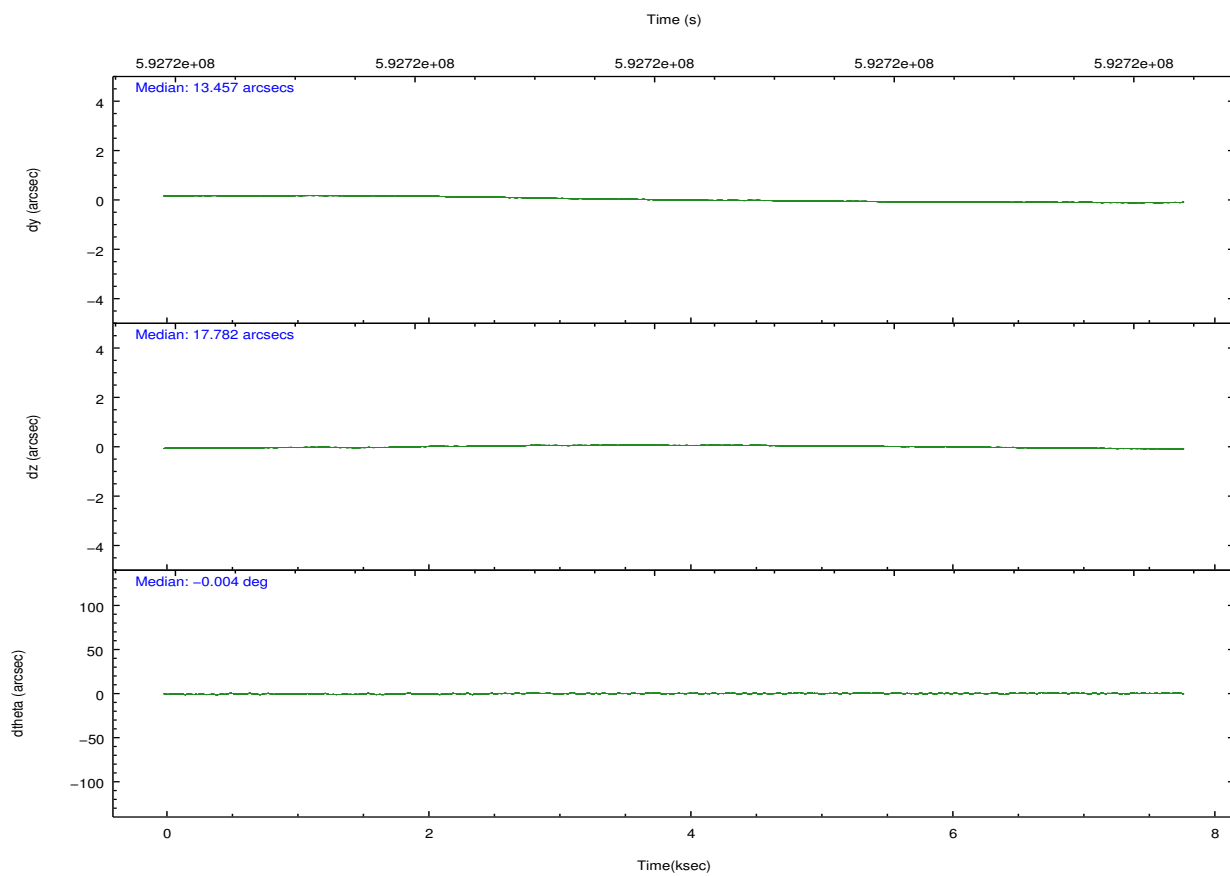
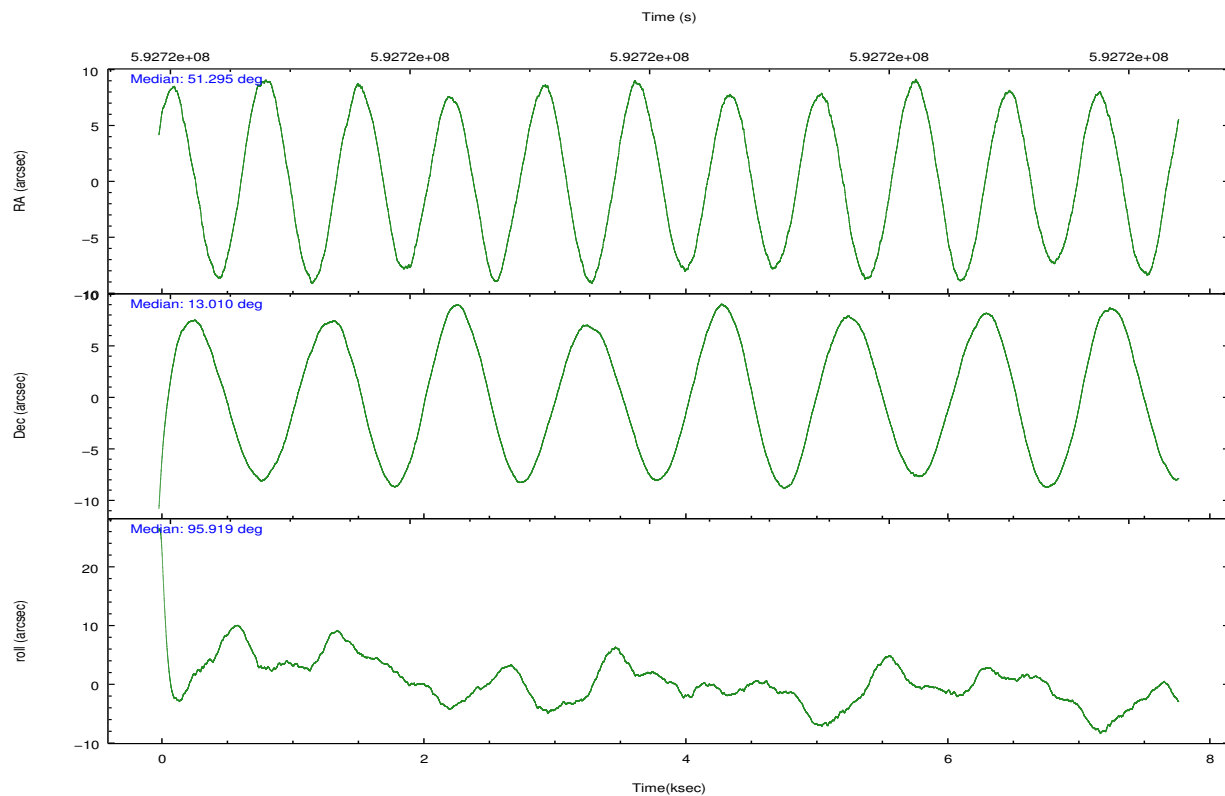
	ccd 2	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 2	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	43812	74527	46627	58958	58318	46975	grade 0 events	1683	3722	1850	2103	4099	1991
rejected events	39016	37646	41148	33593	42798	41352		3%	4%	3%	3%	7%	4%
rejected %	89%	50%	88%	56%	73%	88%	grade 1 events	25	166	20	85	42	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	1164	11701	1246	5342	4075	1250
								2%	15%	2%	9%	6%	2%
							grade 3 events	480	1108	540	2016	1597	601
								1%	1%	1%	3%	2%	1%
							grade 4 events	542	1062	569	1948	1476	527
								1%	1%	1%	3%	2%	1%
							grade 5 events	1855	4975	2179	5814	3250	2526
								4%	6%	4%	9%	5%	5%
							grade 6 events	930	19305	1275	13973	4277	1255
								2%	25%	2%	23%	7%	2%
							grade 7 events	37133	32488	38948	27677	39502	38802
								84%	43%	83%	46%	67%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-256789	ACIS-256789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	51.311765	51.29491123700936	CCD I2 on	O1	Y
[deg] Pointing Dec	12.987686	13.00972291134166	CCD I3 on	N	N
[deg] Pointing Roll	95.761795	95.92226510714863	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	592717120.184000	592715154.61494	CCD S5 on	O2	Y
Observation start date	2016-10-13T03:37:32	2016-10-13T03:05:54	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	592724050.184000	592724537.97798	On-chip summing requested	N	N
Observation end date	2016-10-13T05:33:02	2016-10-13T05:42:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



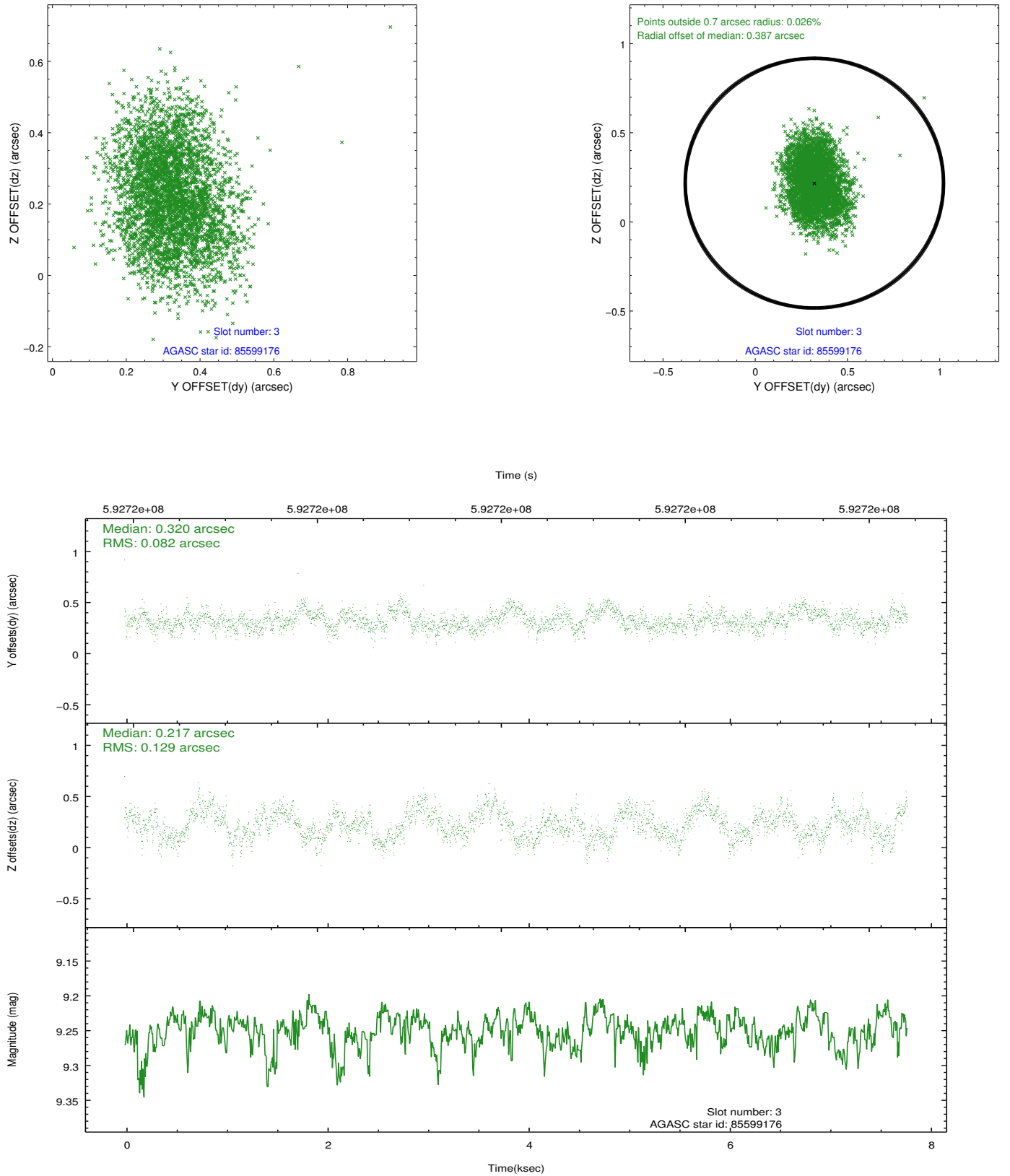


Slot Statistics

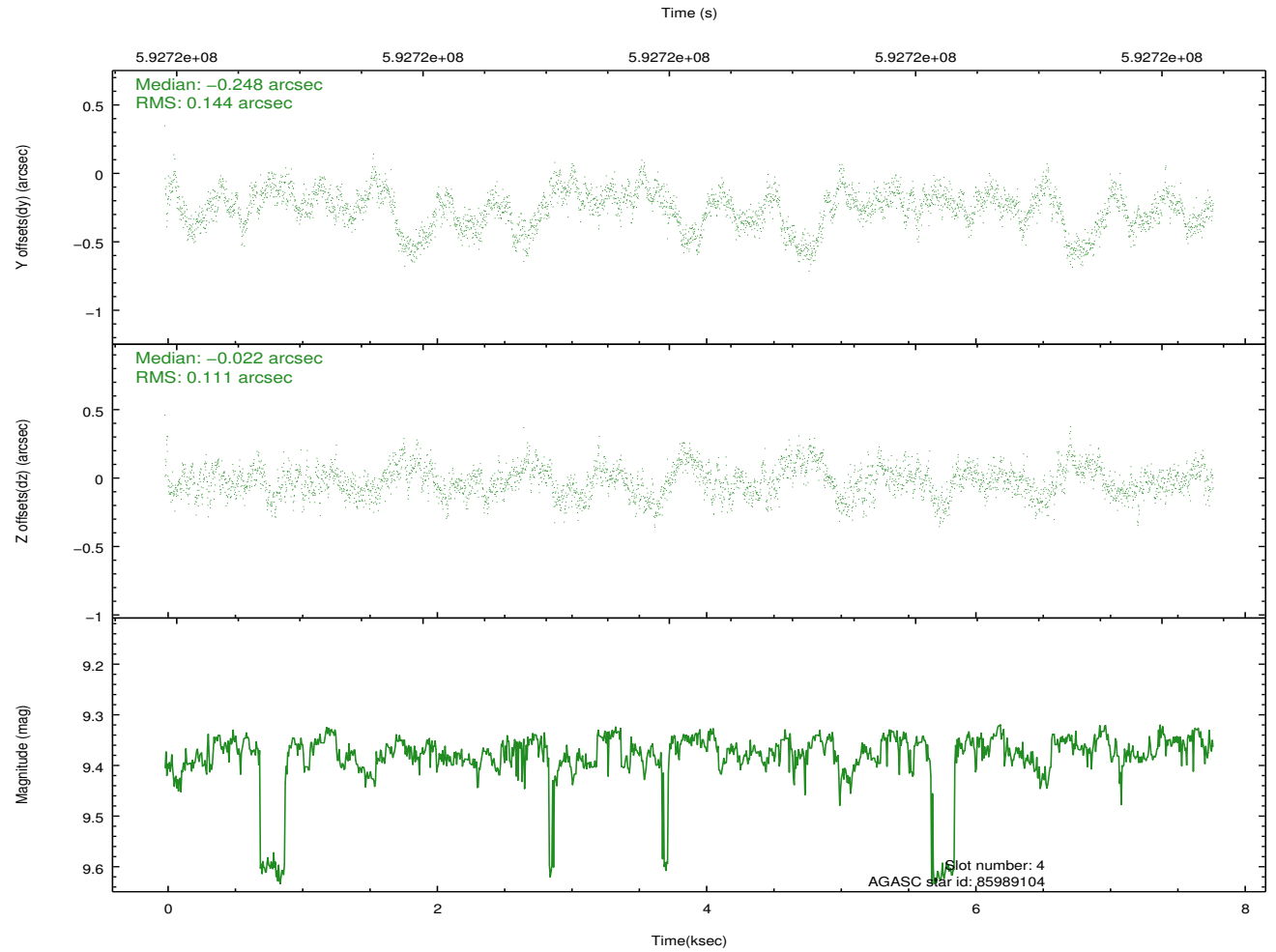
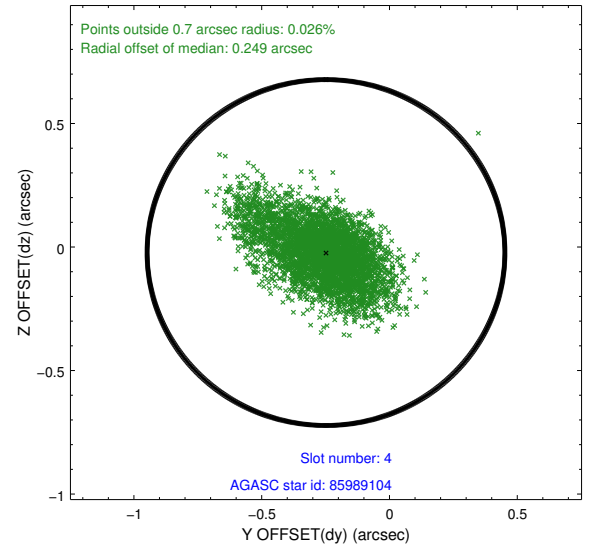
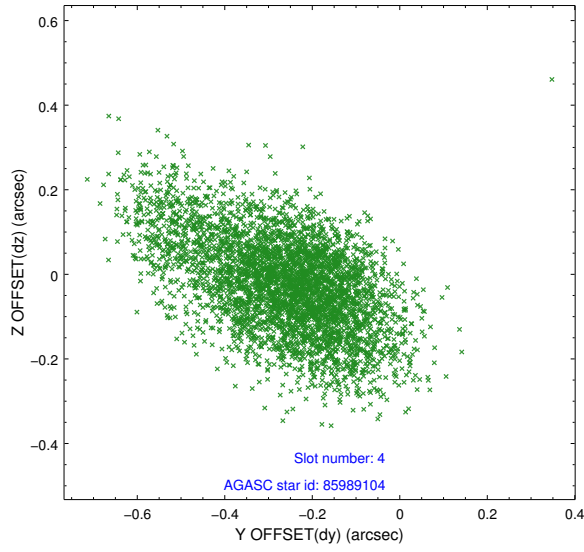
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	1898	-0.134	-0.117	0.008	0.012	0.000000	0.000000	-766.54	-1739.35
1	FID		ACIS-S-4	7.13	1899	0.429	0.096	0.008	0.014	0.000000	0.000000	2146.96	168.59
2	FID		ACIS-S-5	7.14	1899	-0.326	0.030	0.007	0.012	0.000000	0.000000	-1818.65	163.01
3	GUIDE	used	85599176	9.25	3797	0.320	0.217	0.163	0.261	51.787526	12.407130	-2245.16	-1454.52
4	GUIDE	used	85989104	9.37	3797	-0.248	-0.022	0.186	0.335	51.598309	13.632970	2210.77	-1230.94
5	GUIDE	used	85990544	9.18	3798	-0.155	-0.130	0.162	0.262	51.770203	13.166675	482.07	-1664.04
6	GUIDE	used	85991568	8.07	3794	-0.261	0.070	0.150	0.241	51.424396	13.621359	2230.54	-621.44
7	GUIDE	used	85993480	6.81	3798	0.347	-0.118	0.177	0.286	51.827818	12.735286	-1082.97	-1712.30

2.4 Star Slots

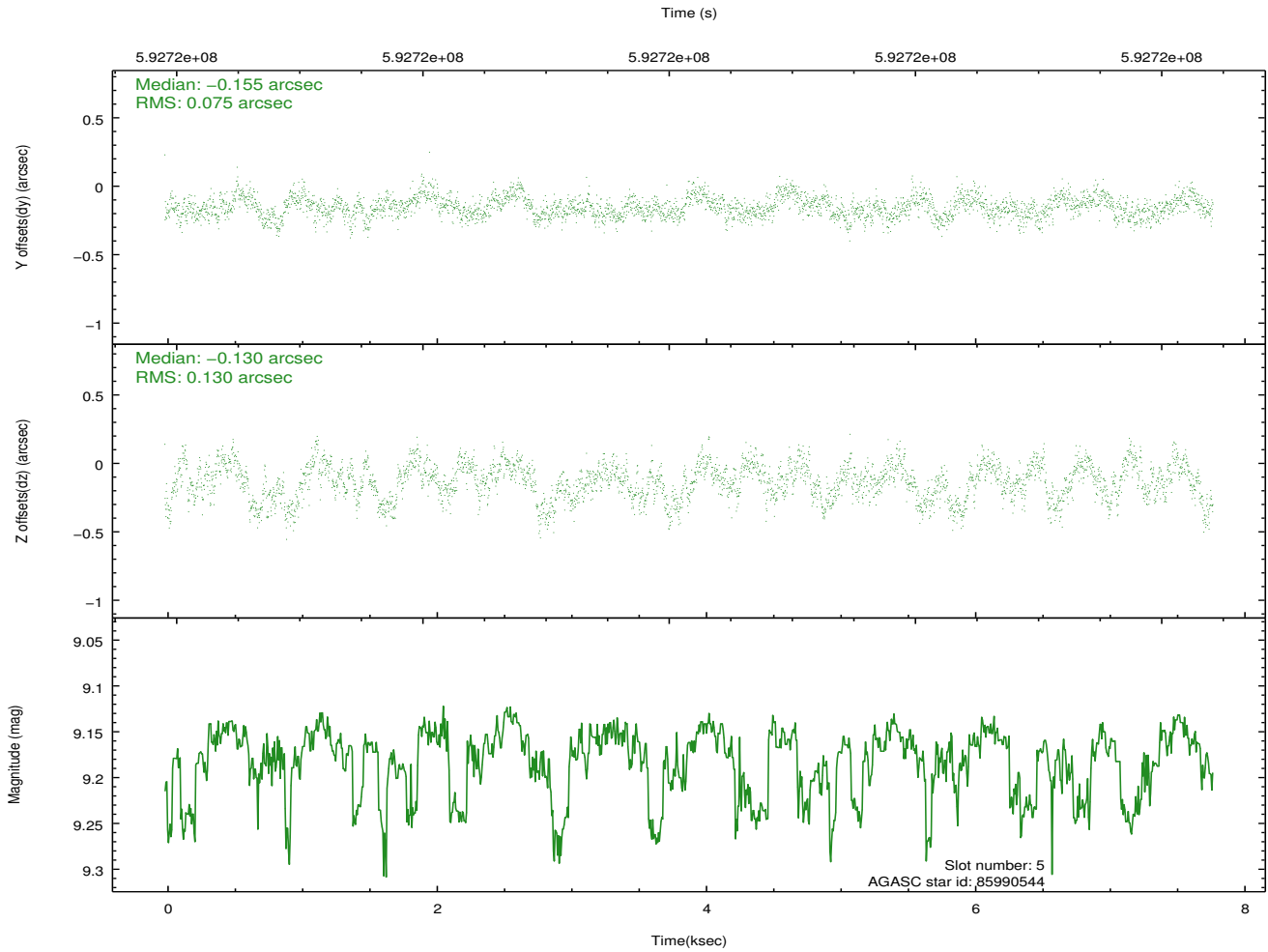
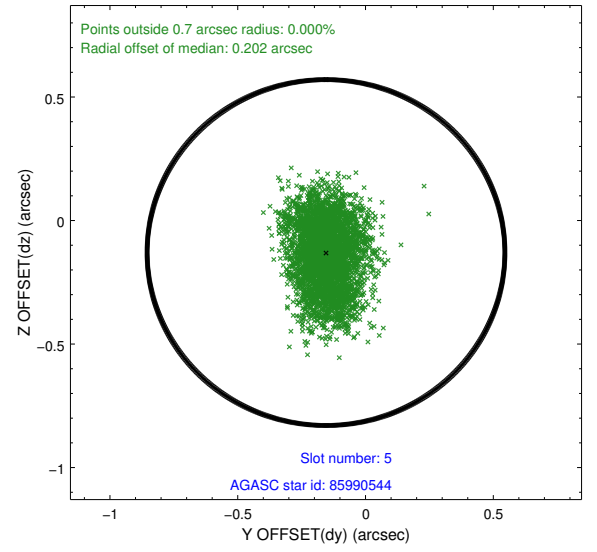
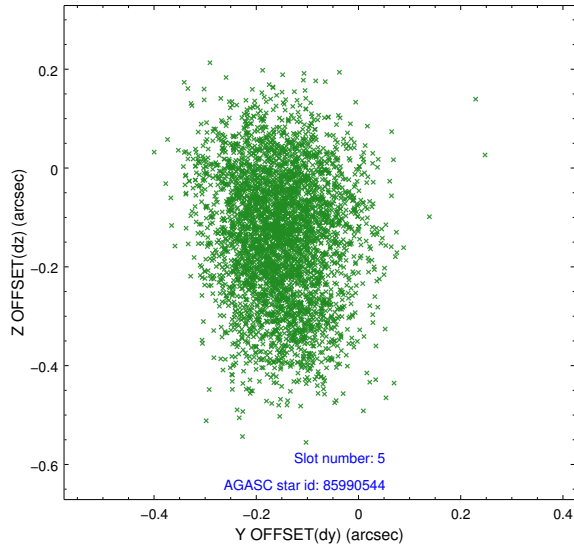
2.4.1 Slot 3



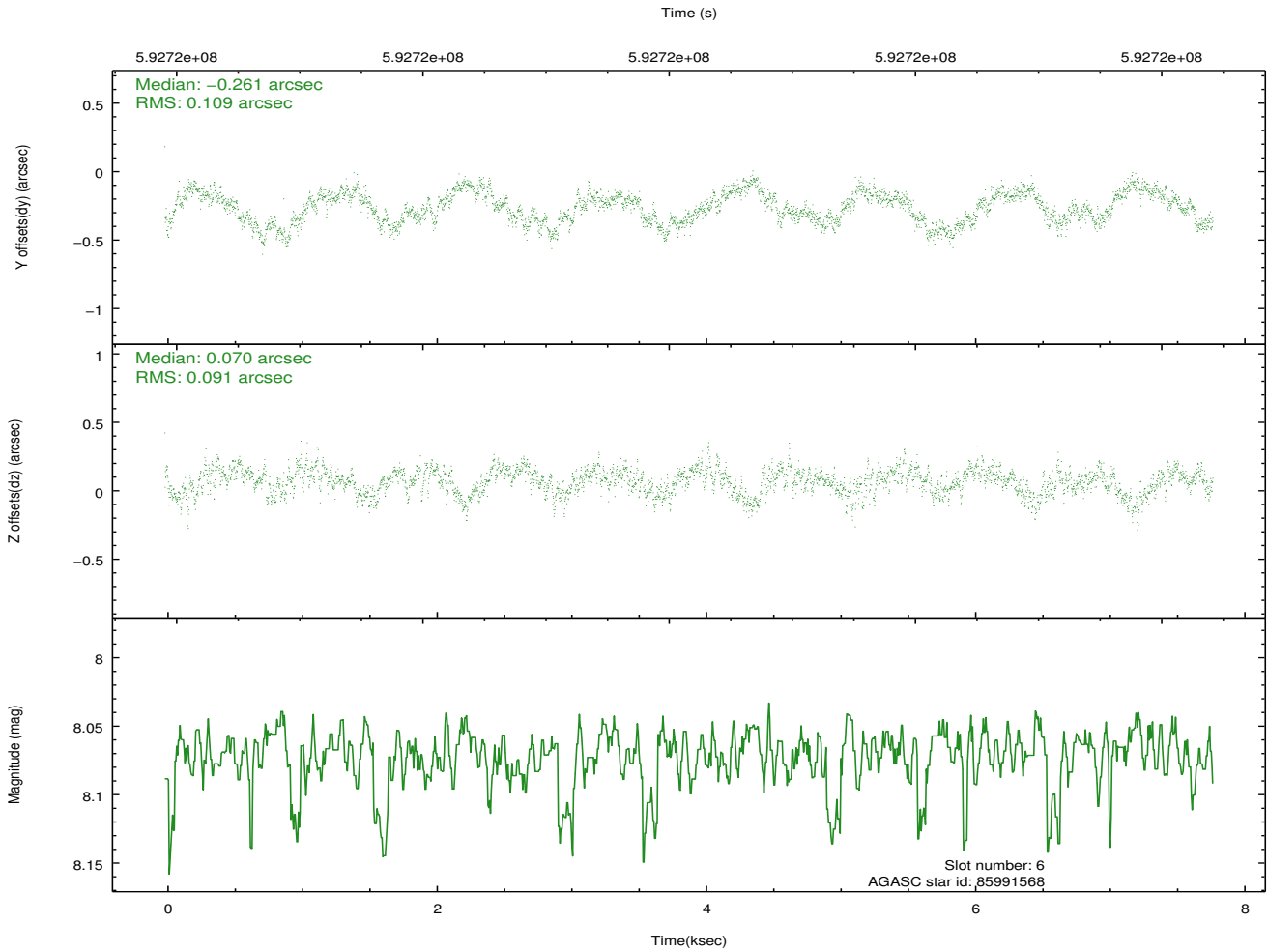
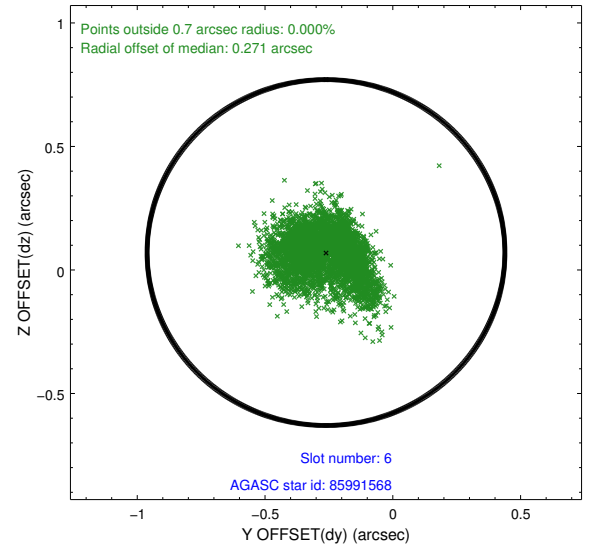
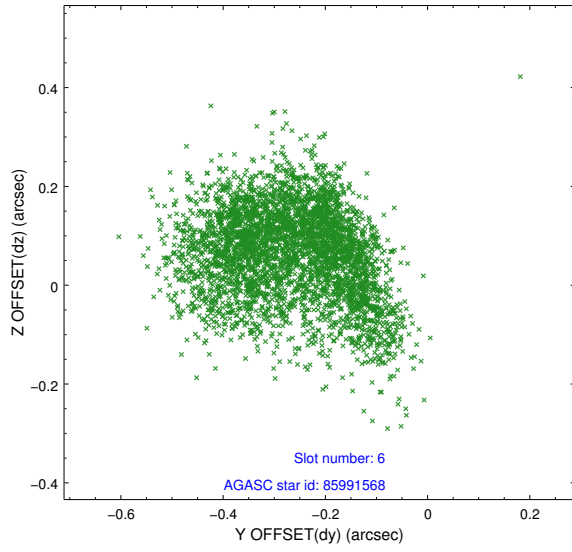
2.4.2 Slot 4



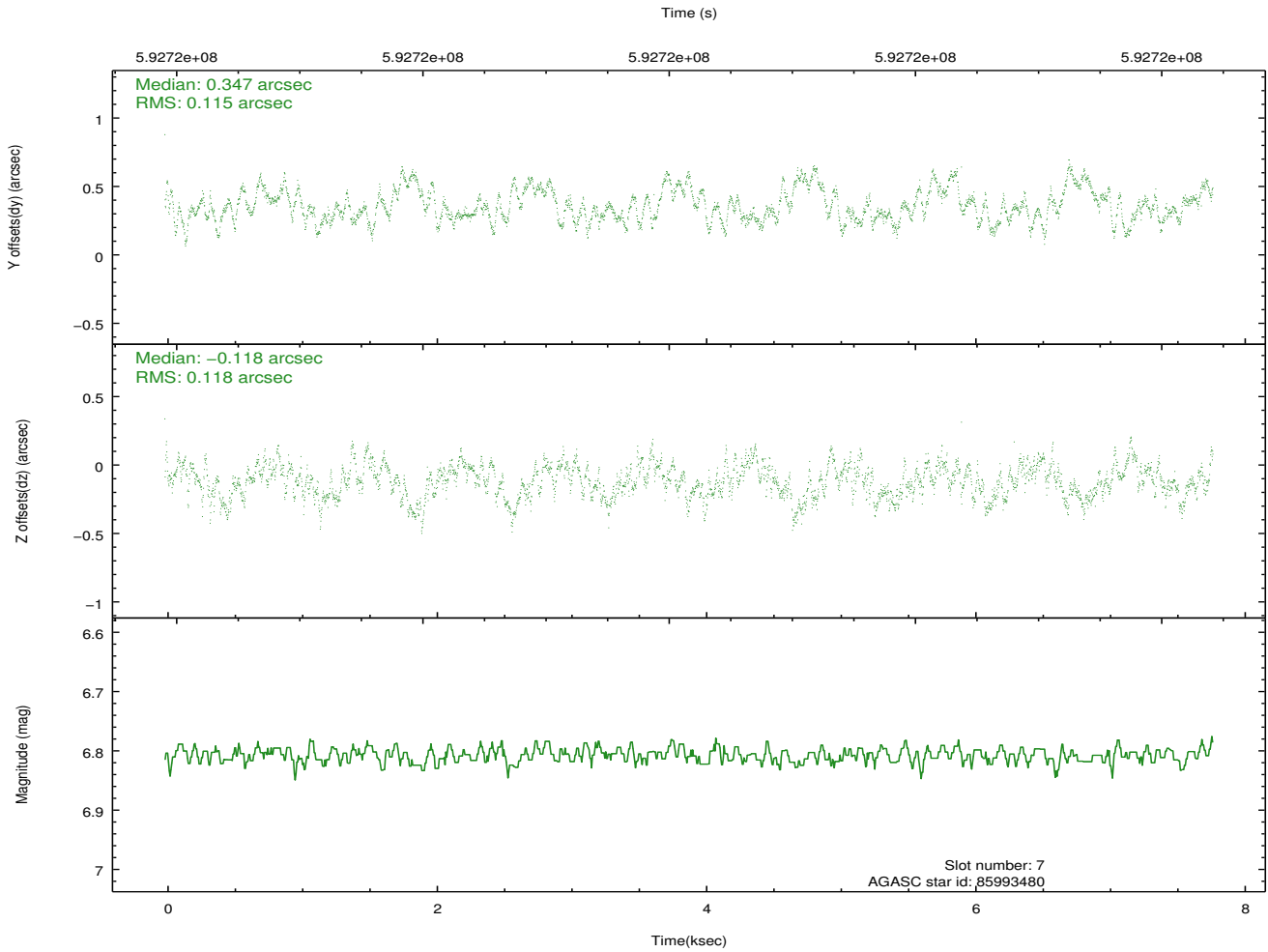
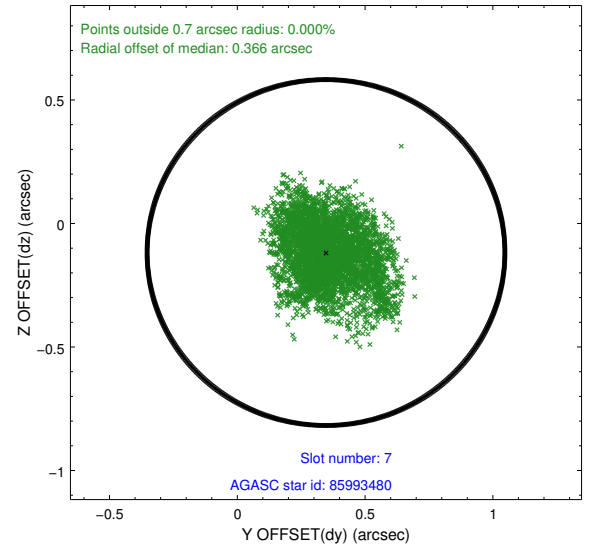
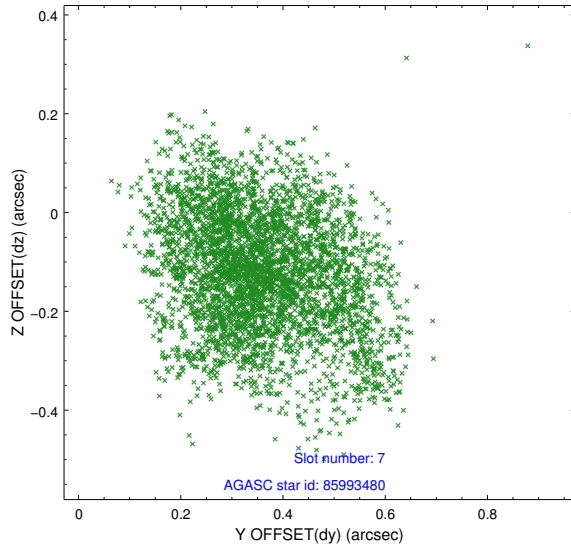
2.4.3 Slot 5



2.4.4 Slot 6

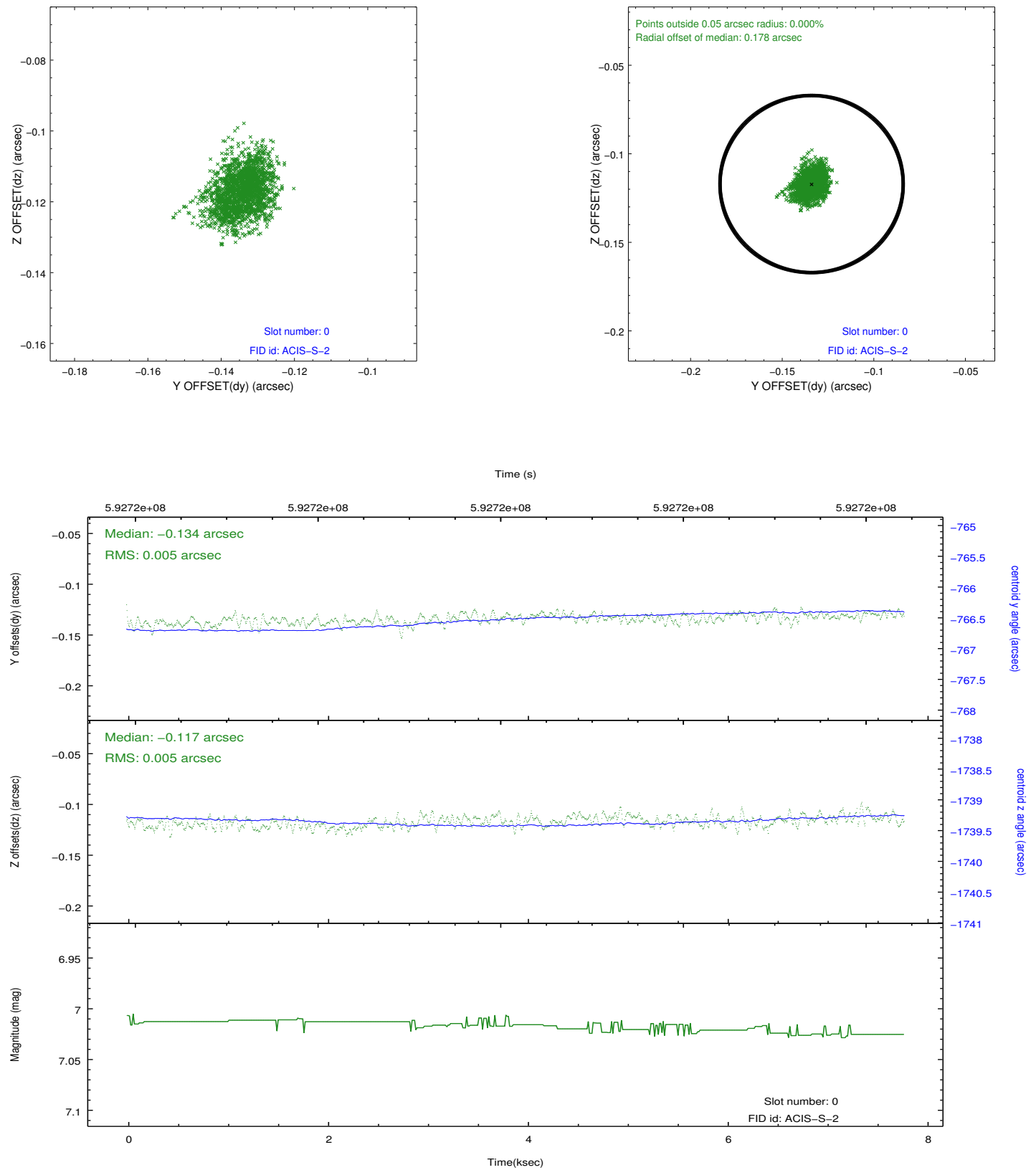


2.4.5 Slot 7

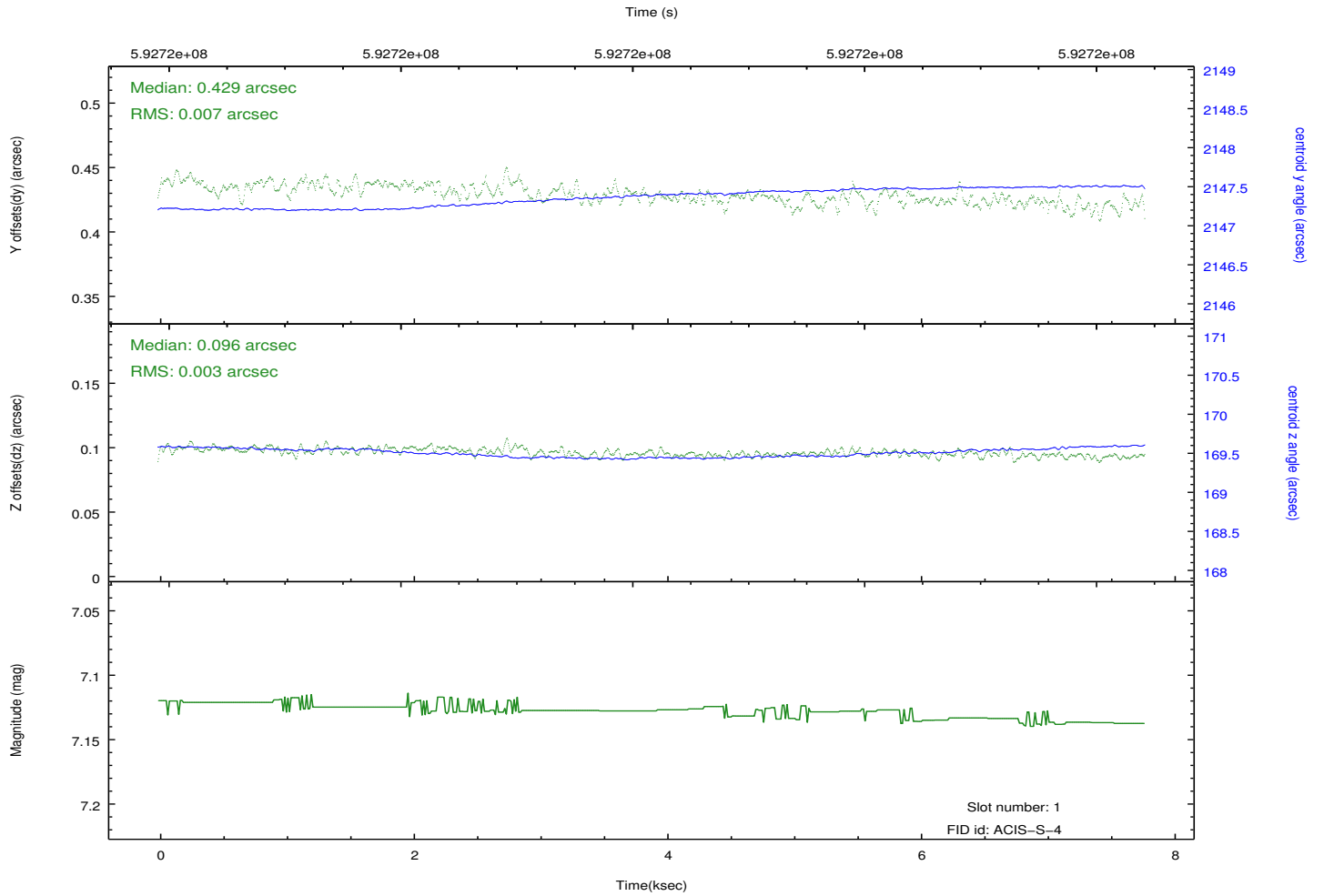
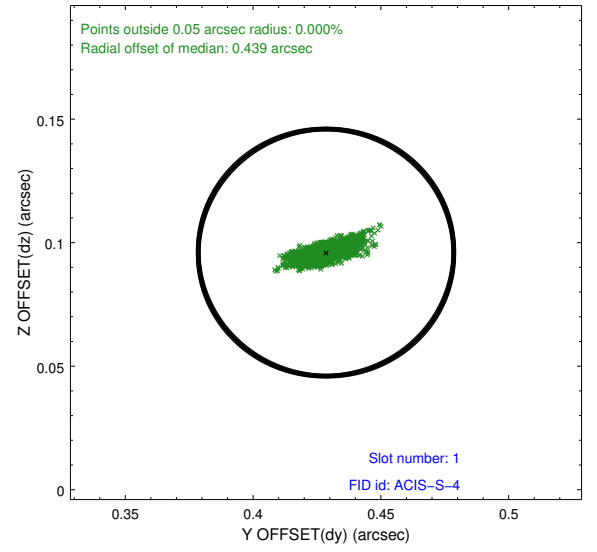
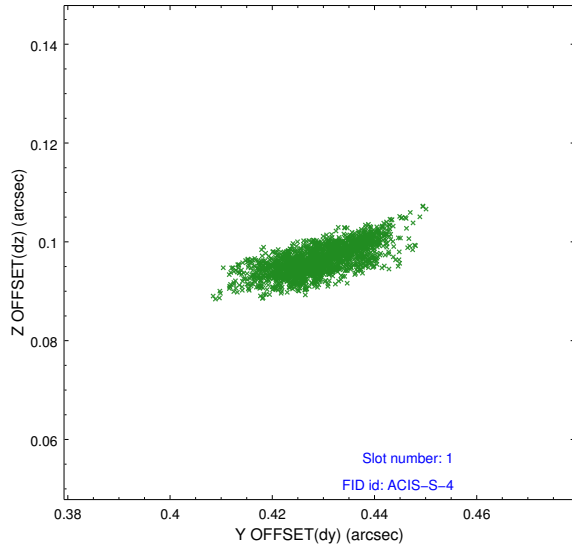


2.5 FID Slots

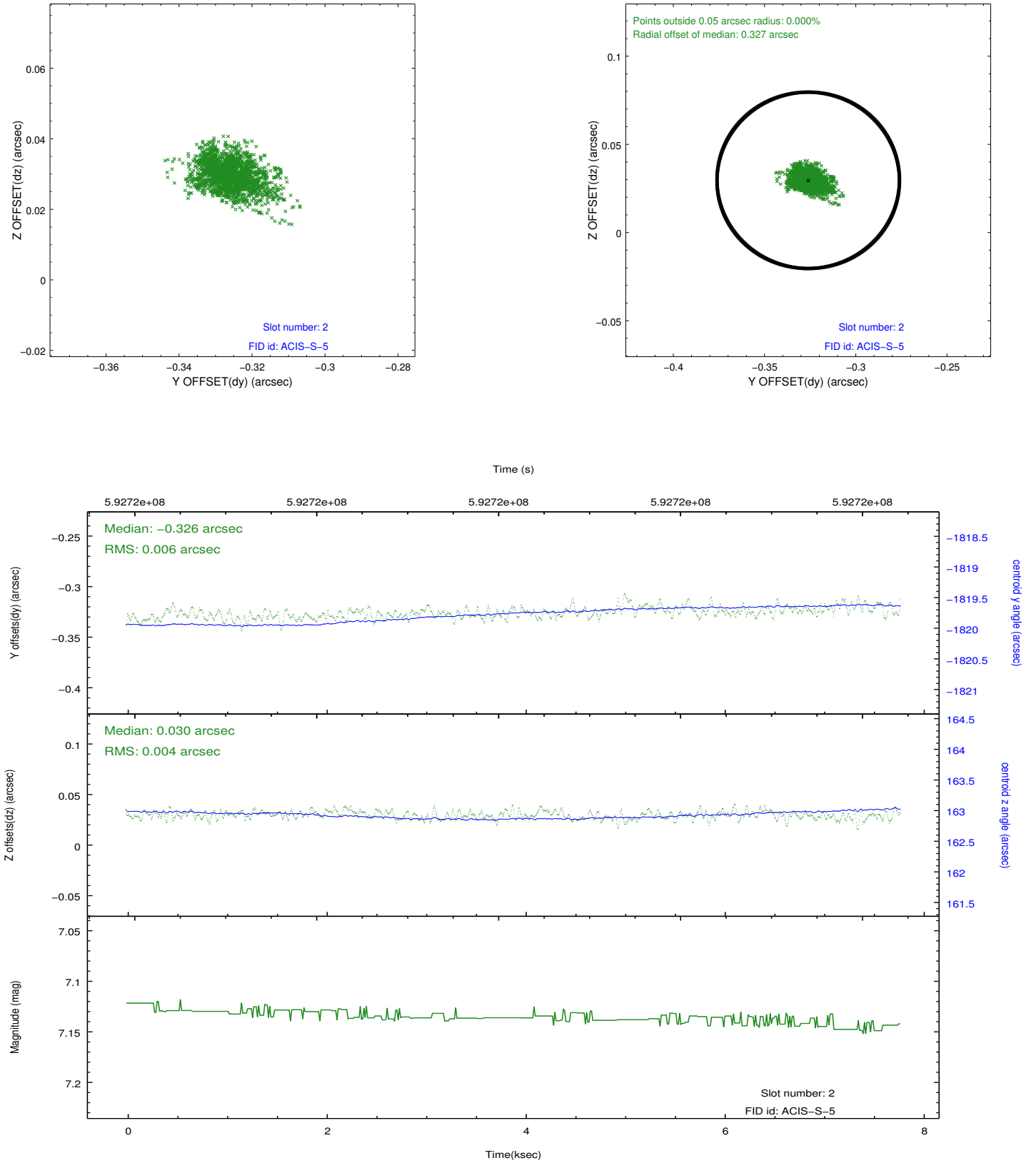
2.5.1 Slot 0



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)	2016.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.8858906207085

A.2 Comments

Joint proposal with Swift.

Observation coordinated with MEarth.