

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18935 - L2 Version 1
Chandra X-Ray Center

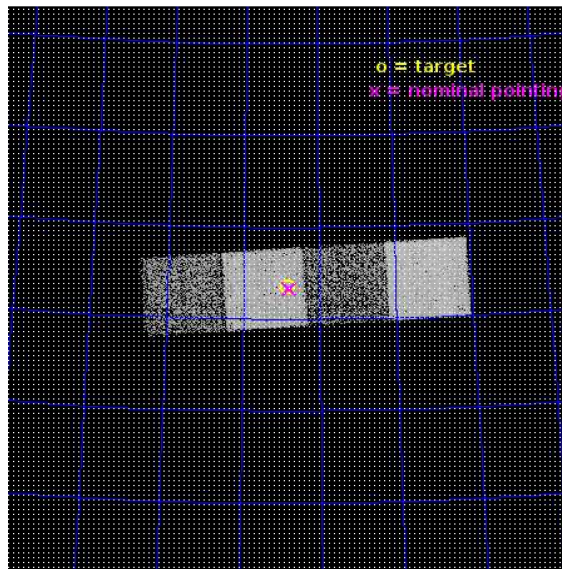
L2 Processing Date : Dec 22 2016

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1 Front

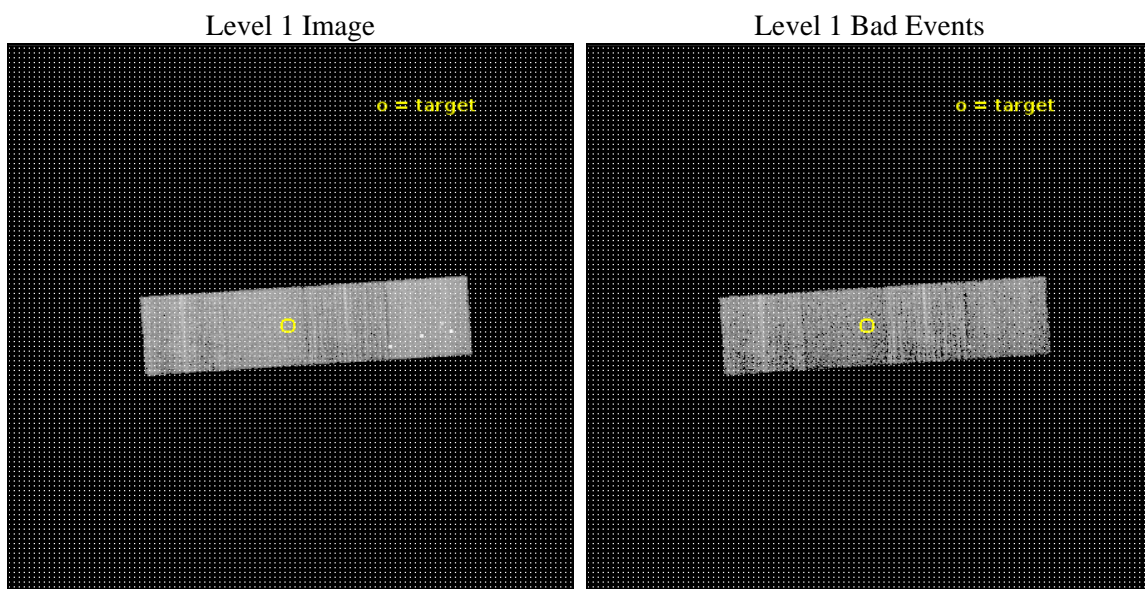
seq_num	201128	Sequence number
obs_id	18935	Observation id
title	Probing the Dynamo Mechanism in Fully Convective Stars	Proposal ti
observer	Nicholas Wright	Principal investigator
object	2MASS J06170531+8353354	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	94.269583	Observer's specified target RA [deg]
dec_targ	83.892306	Observer's specified target Dec [deg]
ra_nom	94.242151955589	Nominal RA [deg]
dec_nom	83.888718027269	Nominal Dec [deg]
roll_nom	176.13735017731	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5060.8889760971	Sum of GTIs [s]
livetime	4994.7647358521	Livetime [s]
ontime5	5060.8479361534	Sum of GTIs [s]
ontime6	5060.8068960905	Sum of GTIs [s]
ontime7	5060.8889760971	Sum of GTIs [s]
ontime8	5060.7658561468	Sum of GTIs [s]
l2events	50425	Number of level 2 events



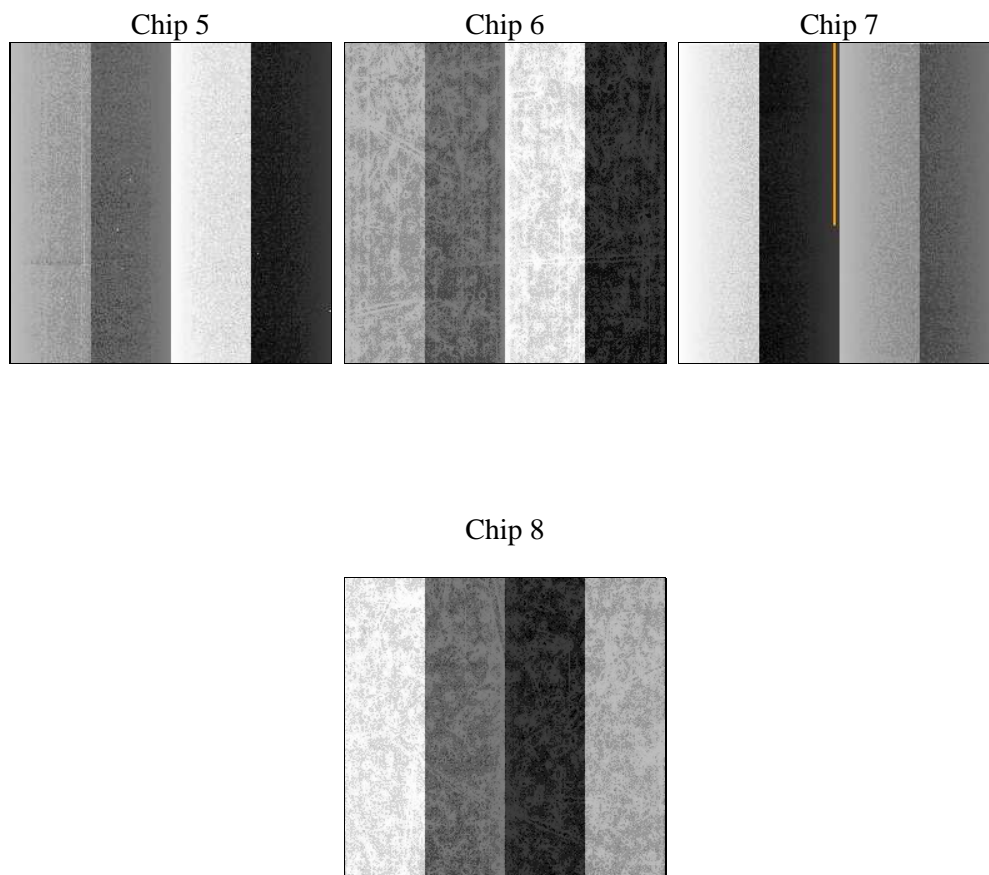
2 OBI

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	10.5.2	Processing system revision	ontime	5060.8889760971	Sum of GTIs [s]
caldbver	4.7.3	 	ontime5	5060.8479361534	Sum of GTIs [s]
date	2016-12-22T16:13:25	Date and time of file creation	ontime6	5060.8068960905	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	5060.8889760971	Sum of GTIs [s]
			ontime8	5060.7658561468	Sum of GTIs [s]
			l1events	185662	Number of level 1 events

2.1.4 Events

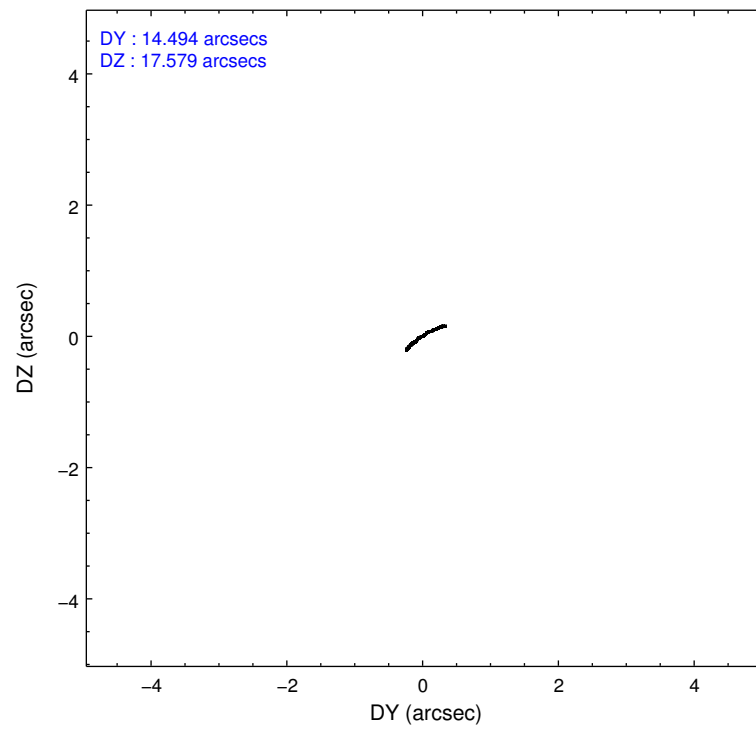
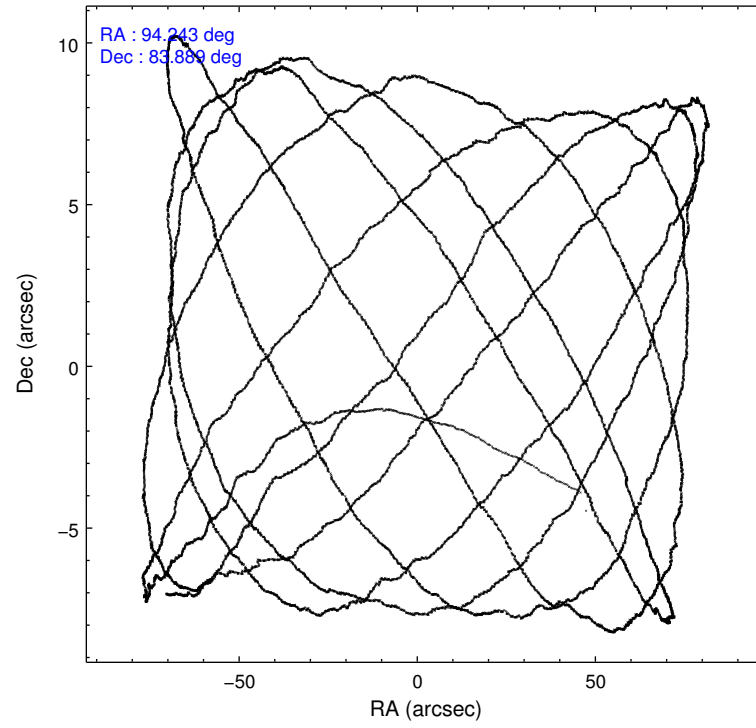
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	58852	37196	44766	44848
rejected events	29338	33361	25777	34277
rejected %	49%	89%	57%	76%

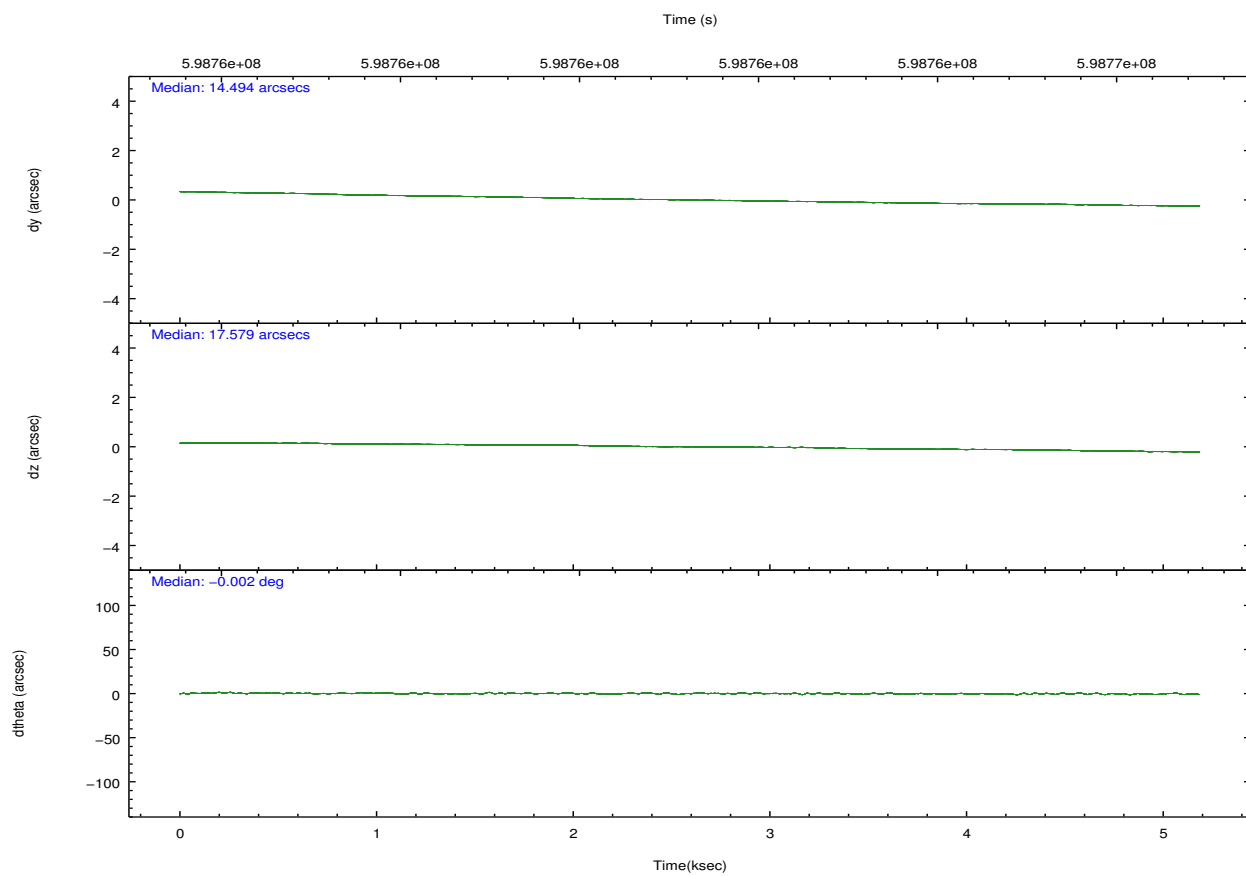
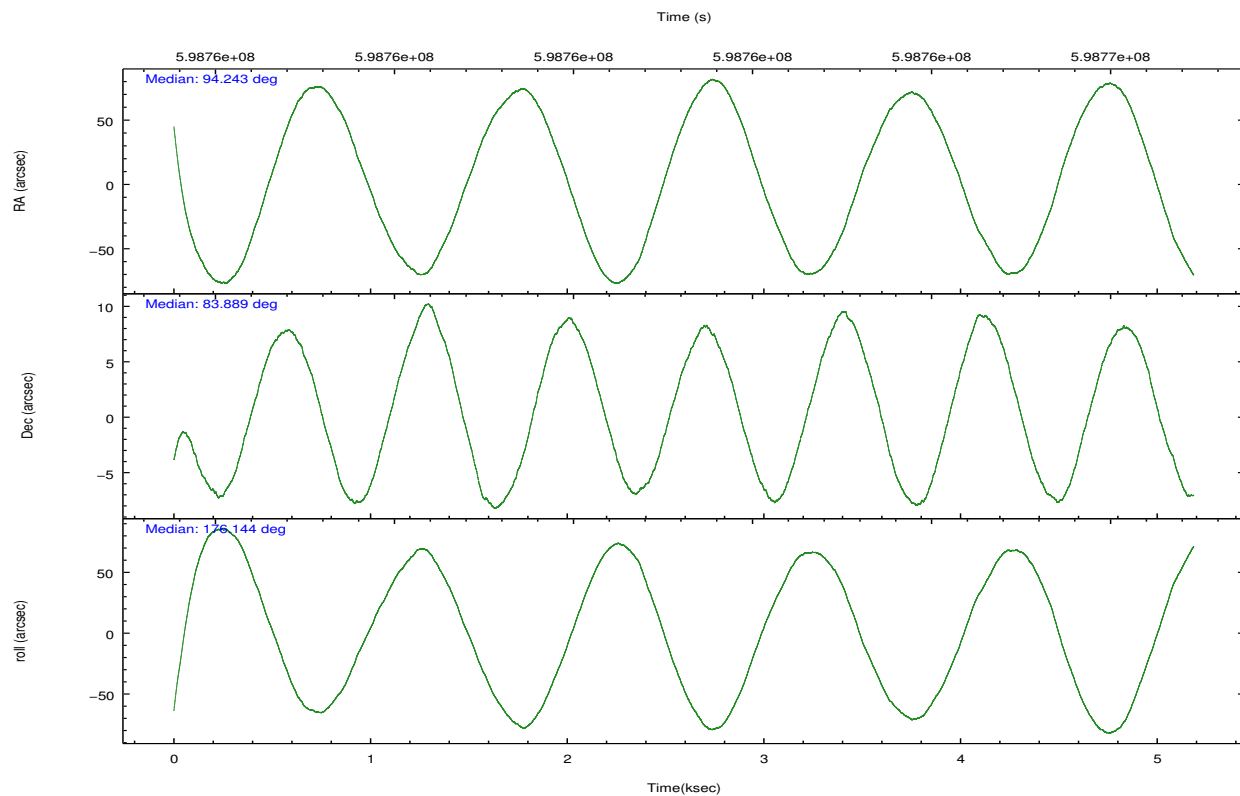
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2986	1134	1553	2912
	5%	3%	3%	6%
grade 1 events	327	18	62	27
	0%	0%	0%	0%
grade 2 events	9803	1017	4113	2657
	16%	2%	9%	5%
grade 3 events	833	340	1352	1011
	1%	0%	3%	2%
grade 4 events	908	353	1341	967
	1%	0%	2%	2%
grade 5 events	3480	1470	4108	2292
	5%	3%	9%	5%
grade 6 events	15023	997	10653	3067
	25%	2%	23%	6%
grade 7 events	25492	31867	21584	31915
	43%	85%	48%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	94.472927	94.24215195558914	CCD I2 on	O1	N
[deg] Pointing Dec	83.901206	83.88871802726945	CCD I3 on	O2	N
[deg] Pointing Roll	175.751331	176.1373501773121	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	598761200.184000	598760318.98888	CCD S5 on	N	N
Observation start date	2016-12-22T02:32:12	2016-12-22T02:18:38	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	598766200.184000	598766878.98926	On-chip summing requested	N	N
Observation end date	2016-12-22T03:55:32	2016-12-22T04:07:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



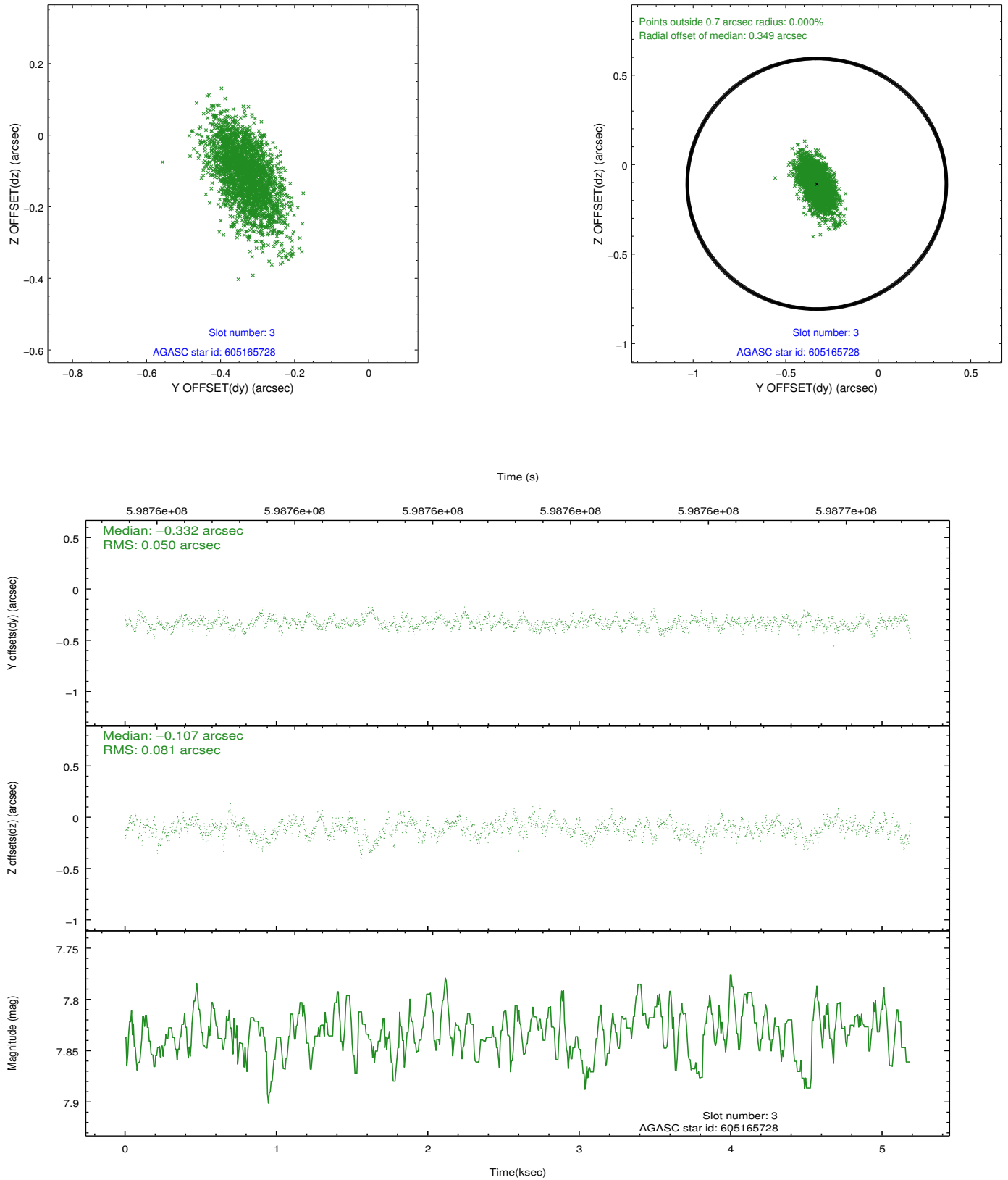


Slot Statistics

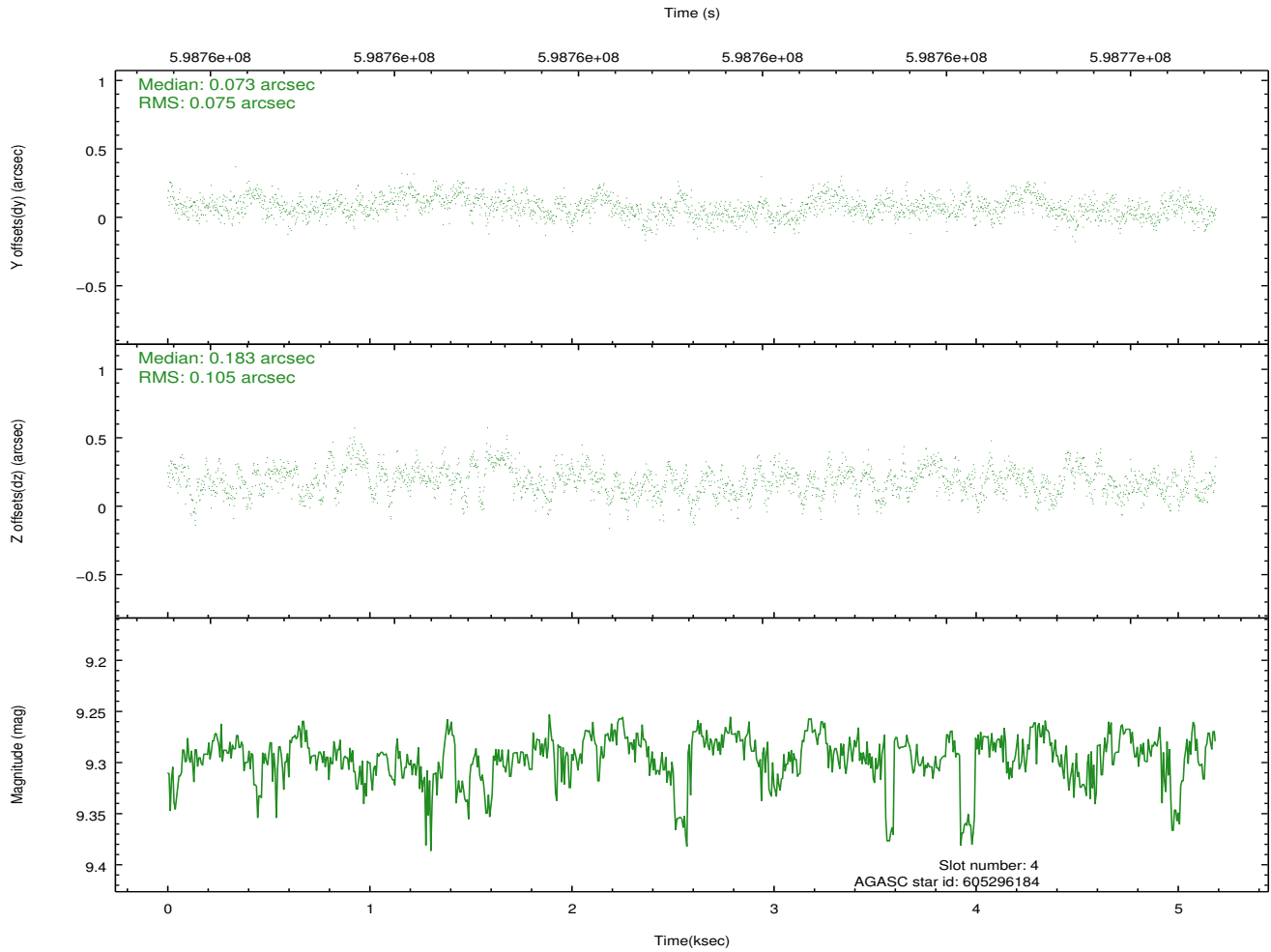
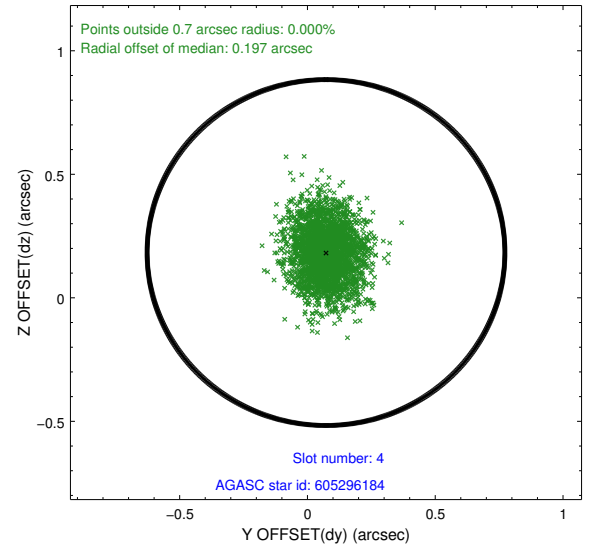
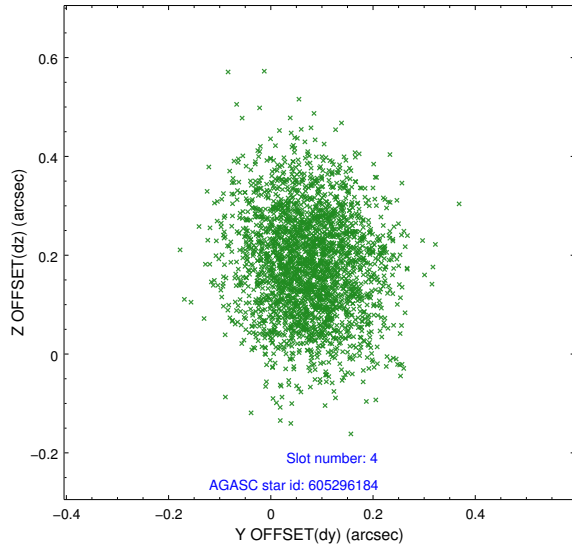
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.15	1265	-0.287	-0.191	0.008	0.012	0.000000	0.000000	-767.82	-1739.18
1	FID		ACIS-S-4	7.27	1265	0.324	0.159	0.009	0.014	0.000000	0.000000	2145.61	168.32
2	FID		ACIS-S-6	7.41	1265	-0.065	0.039	0.009	0.014	0.000000	0.000000	395.98	807.00
3	GUIDE	used	605165728	7.83	2531	-0.332	-0.107	0.098	0.172	88.808457	83.609594	2190.00	1103.88
4	GUIDE	used	605296184	9.29	2525	0.073	0.183	0.137	0.221	98.786847	83.763561	-1711.80	307.21
5	GUIDE	used	605300752	8.68	2527	0.204	0.041	0.120	0.195	93.235307	84.097659	509.43	-676.38
6	GUIDE	used	605300344	9.33	2528	0.143	-0.053	0.151	0.241	97.685657	83.727138	-1302.91	496.10
7	GUIDE	used	605166632	9.71	2528	-0.087	-0.056	0.175	0.288	88.372808	83.285983	2401.05	2263.79

2.4 Star Slots

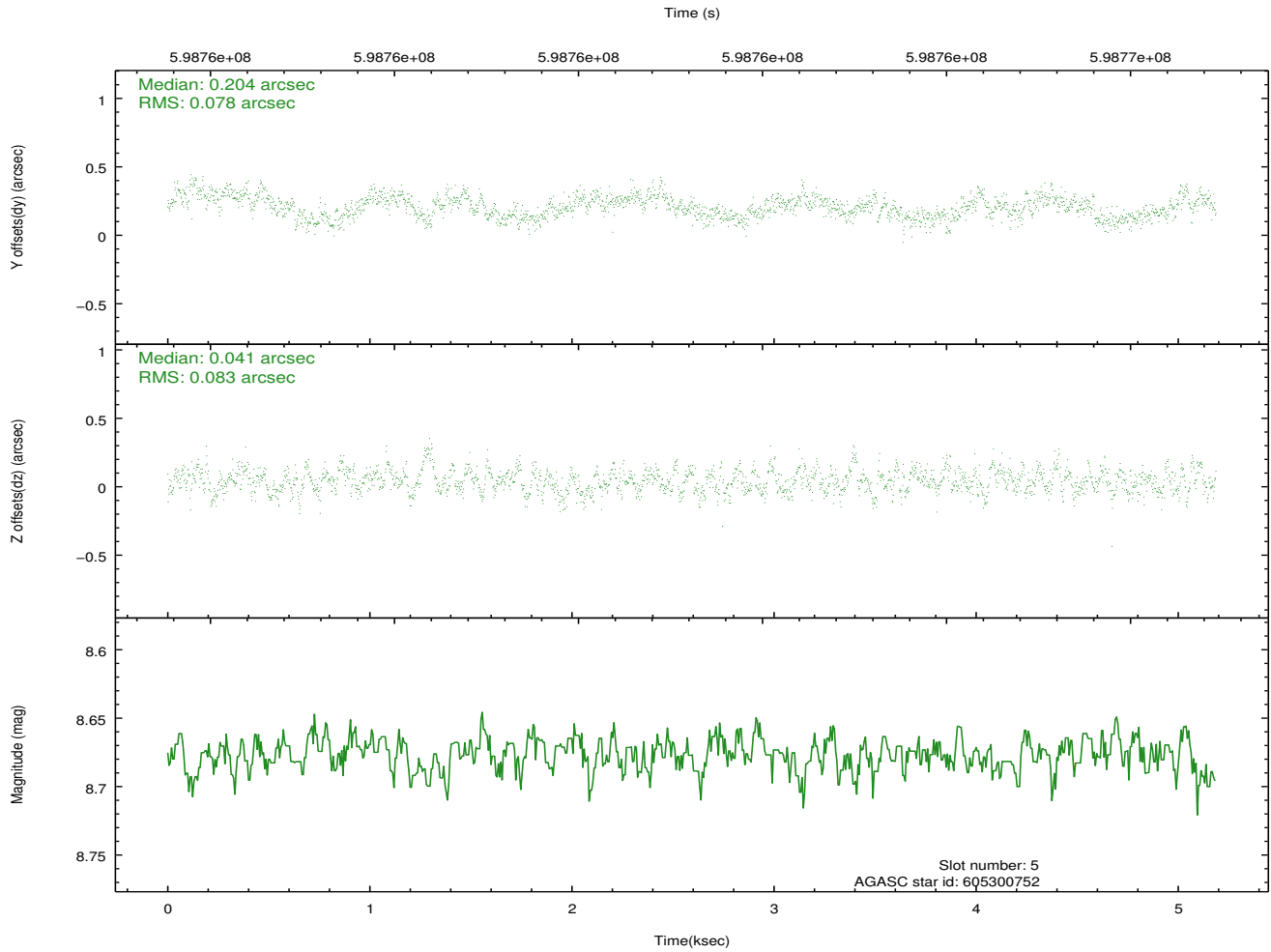
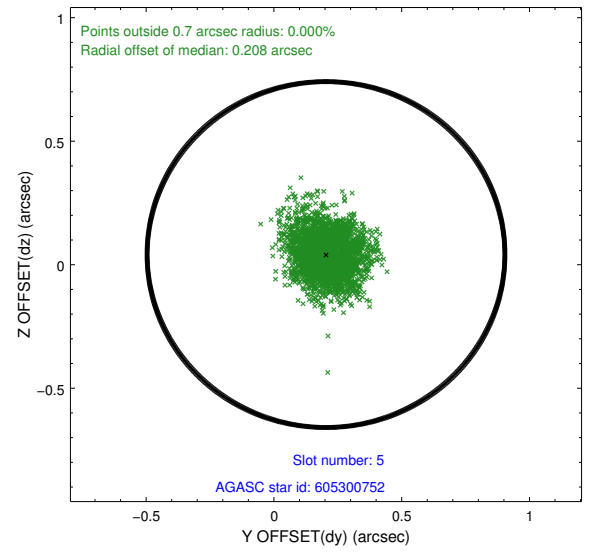
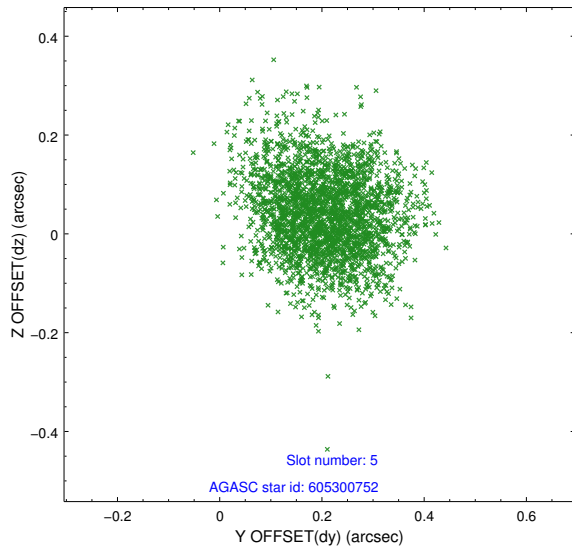
2.4.1 Slot 3



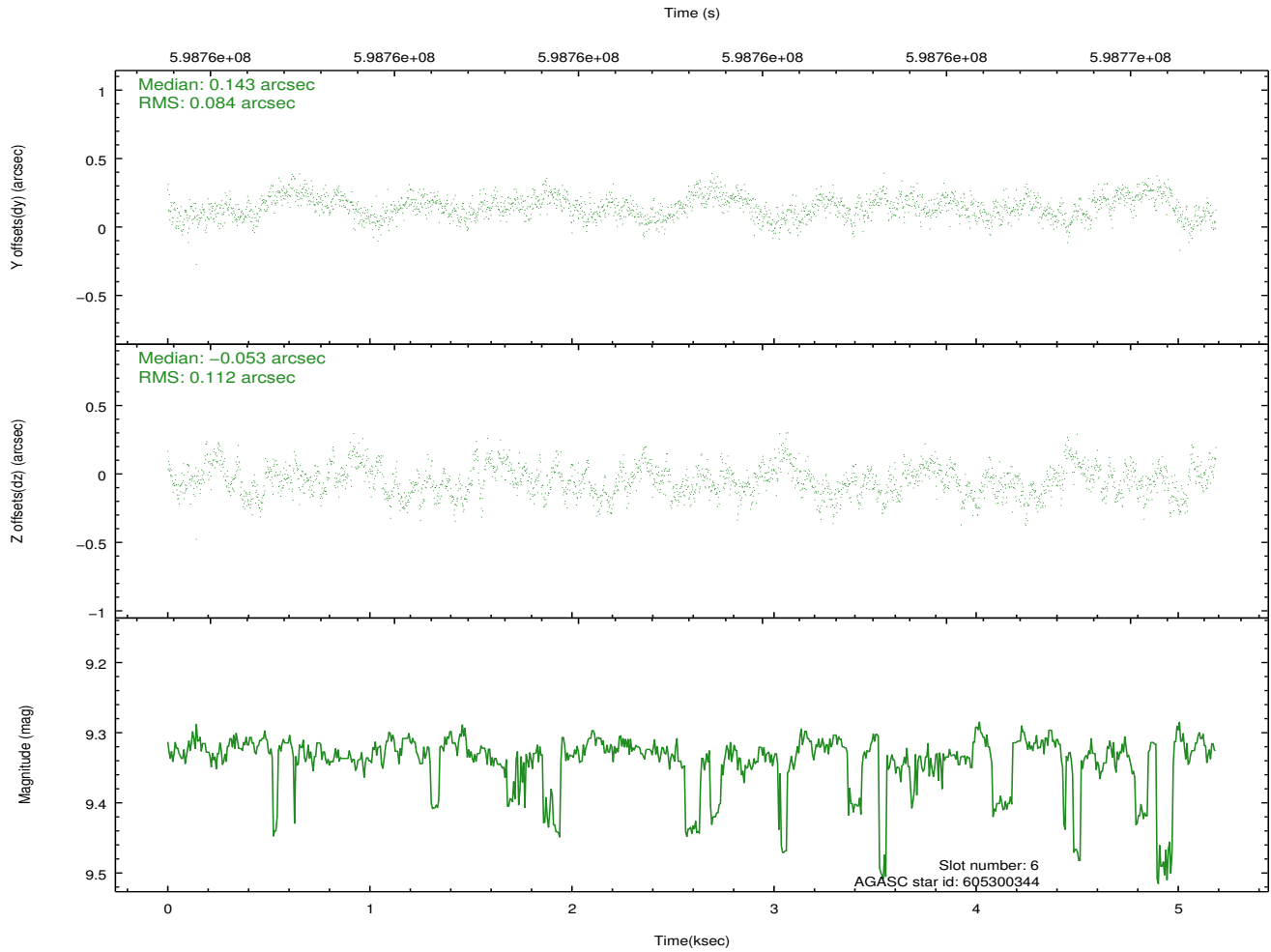
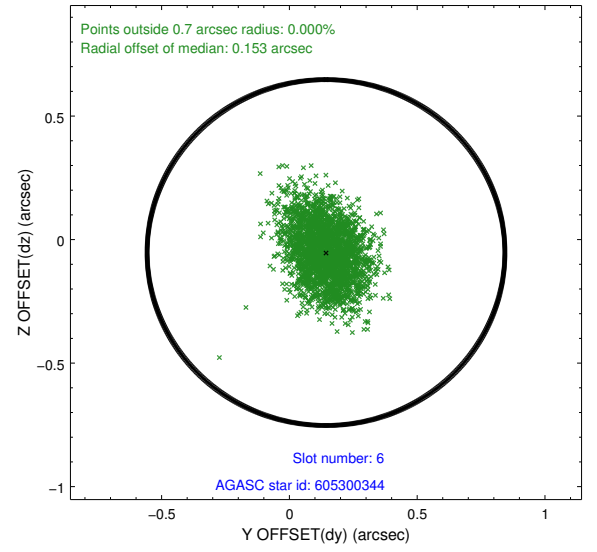
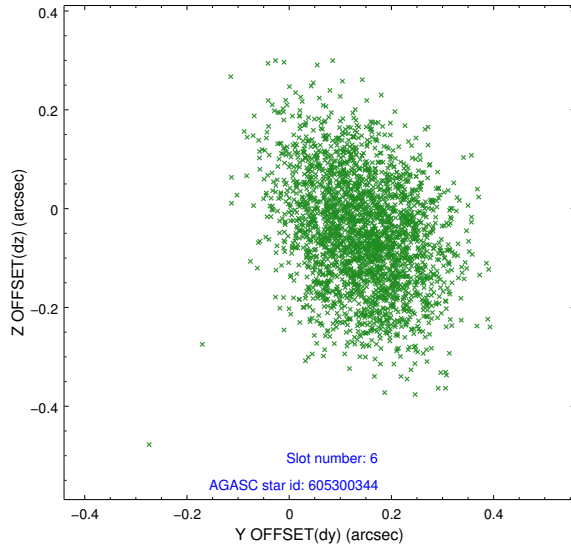
2.4.2 Slot 4



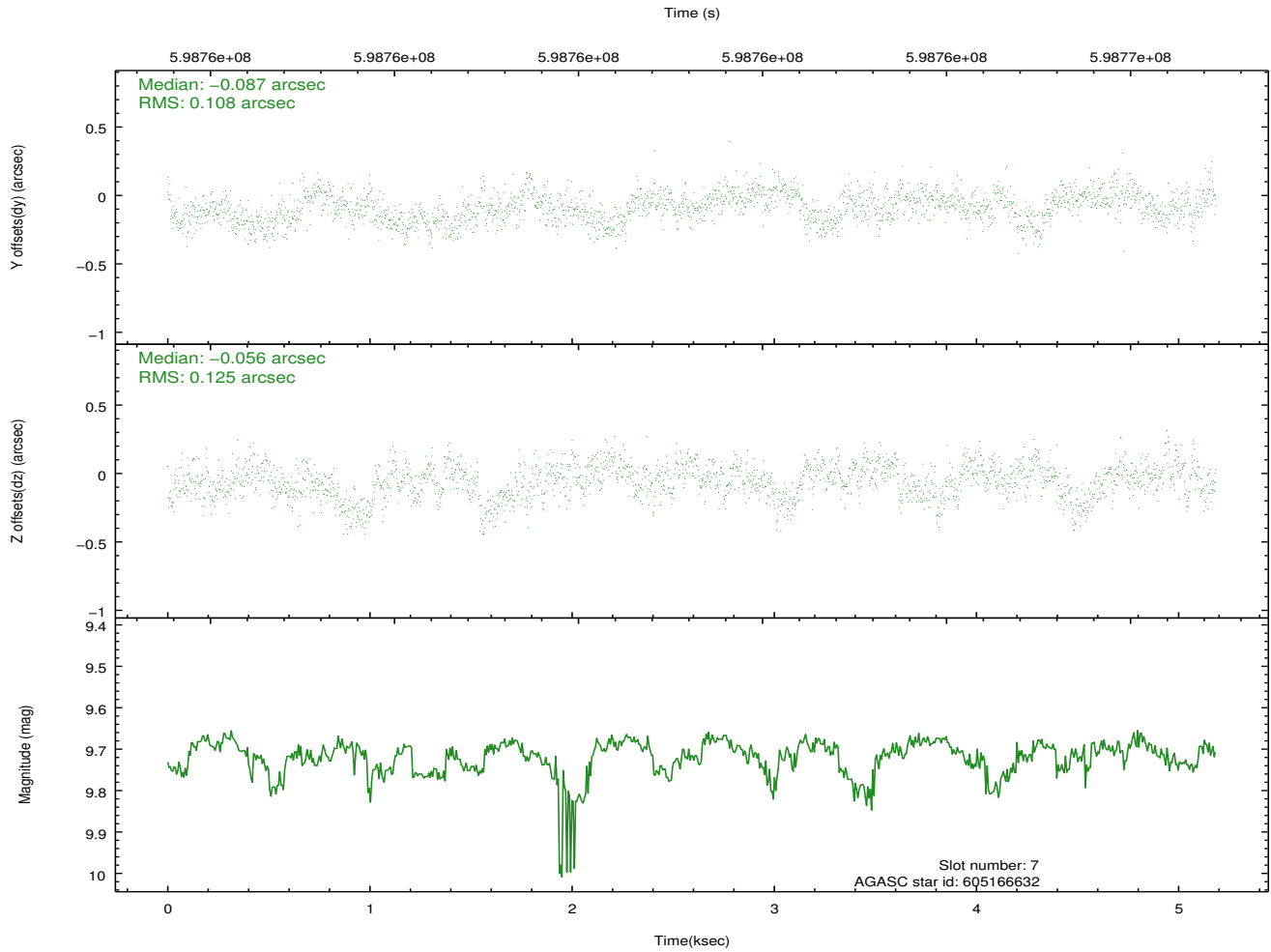
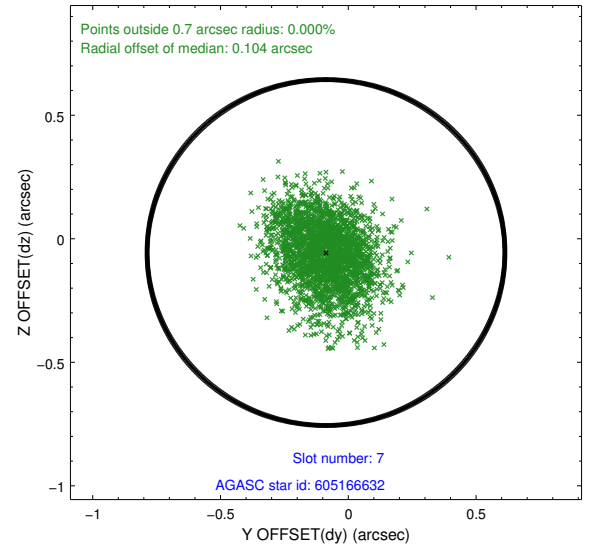
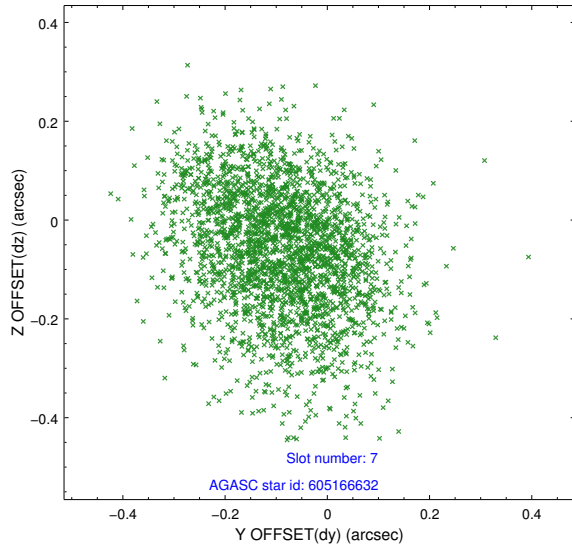
2.4.3 Slot 5



2.4.4 Slot 6

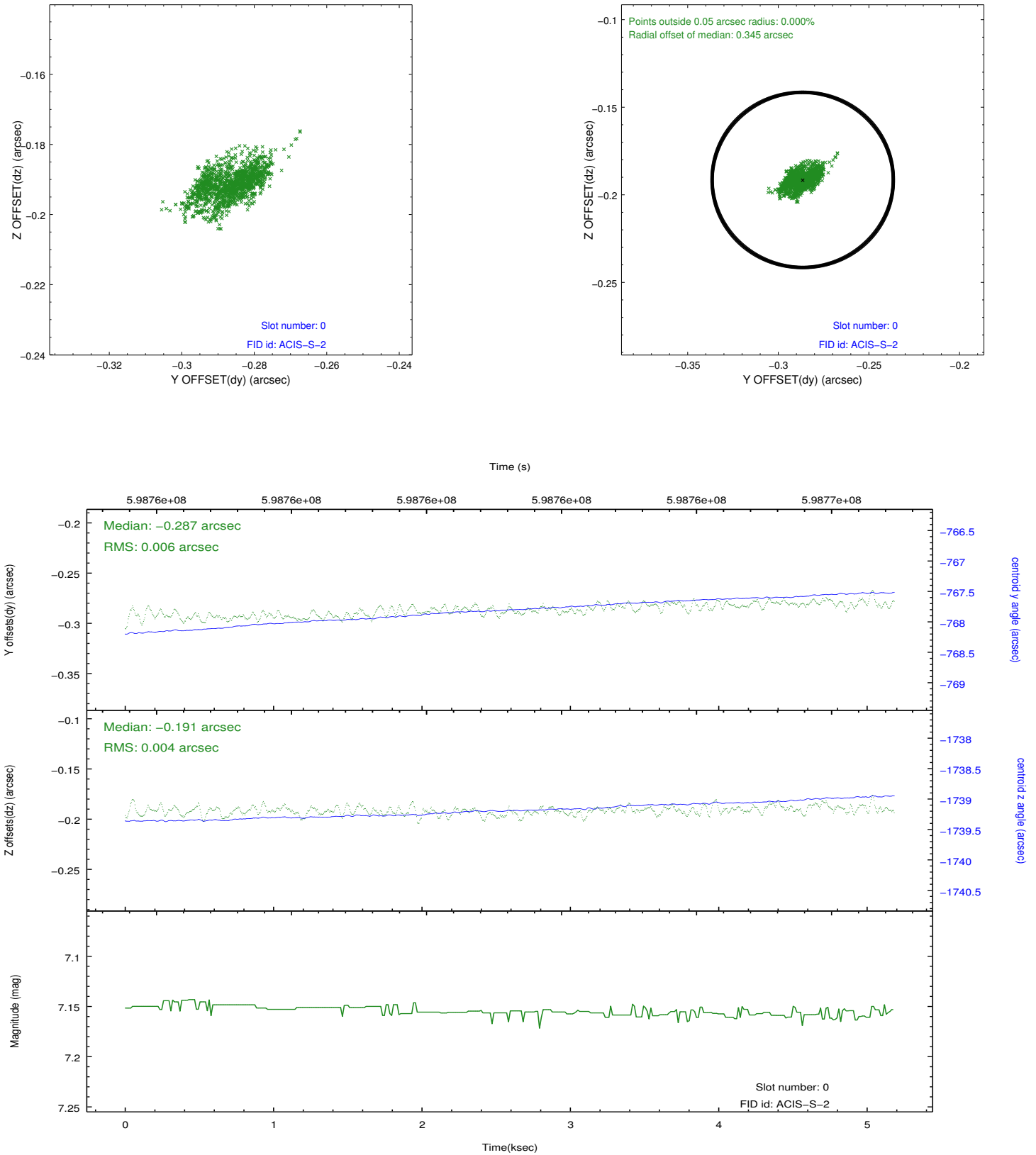


2.4.5 Slot 7

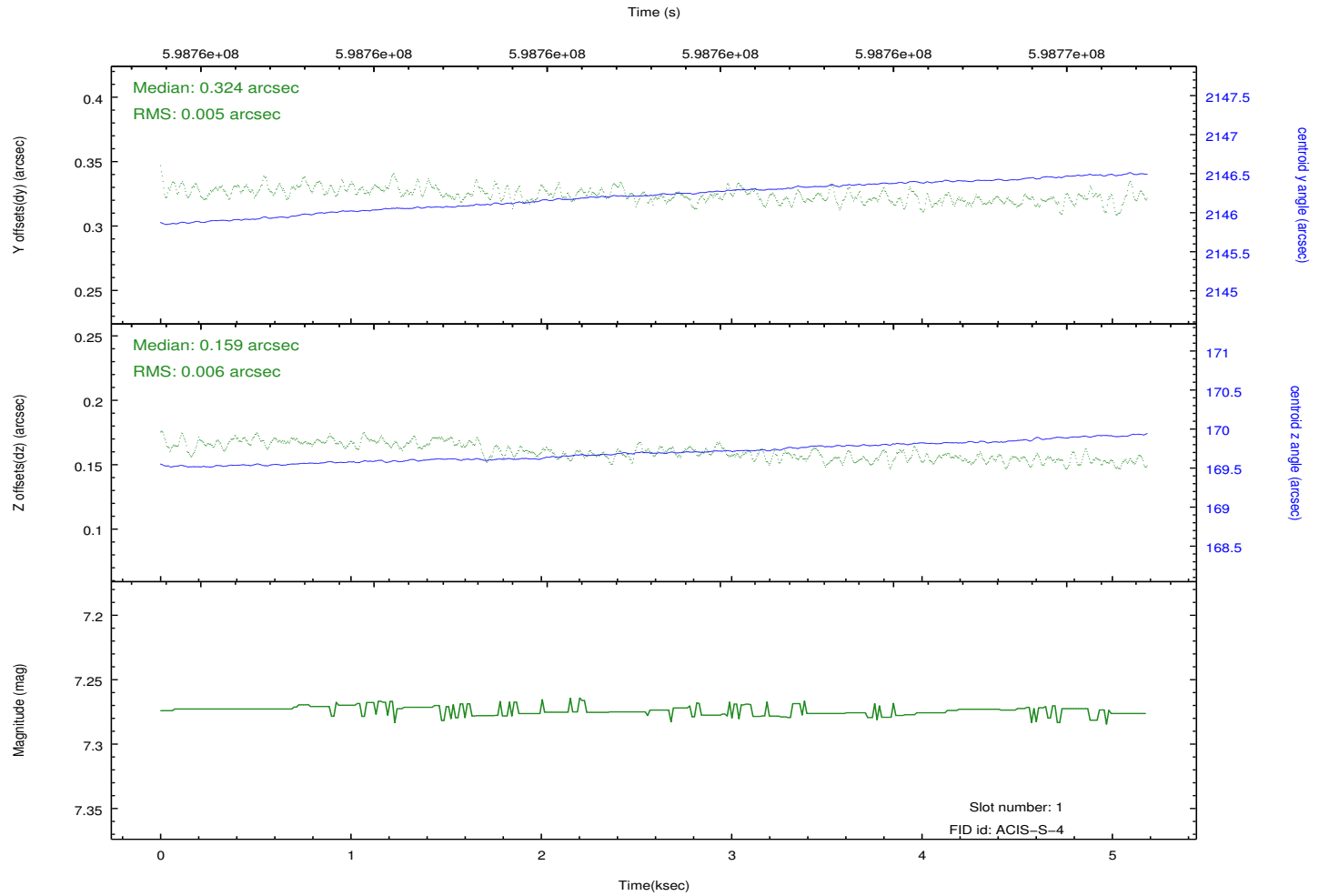
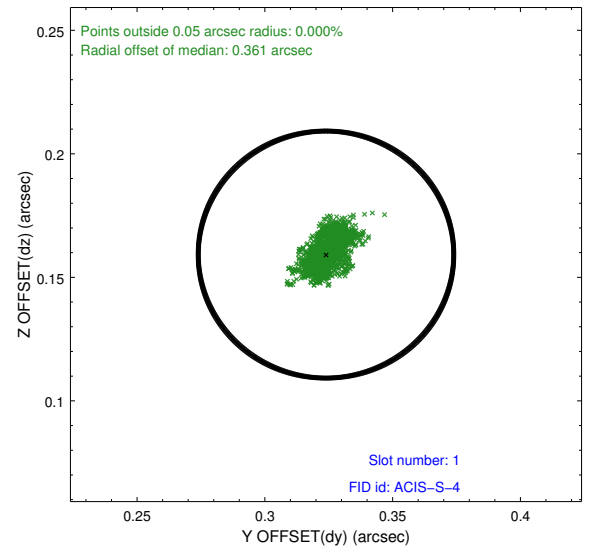
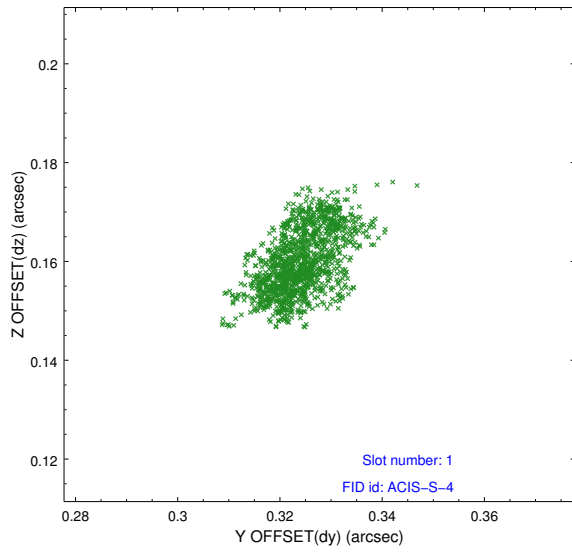


2.5 FID Slots

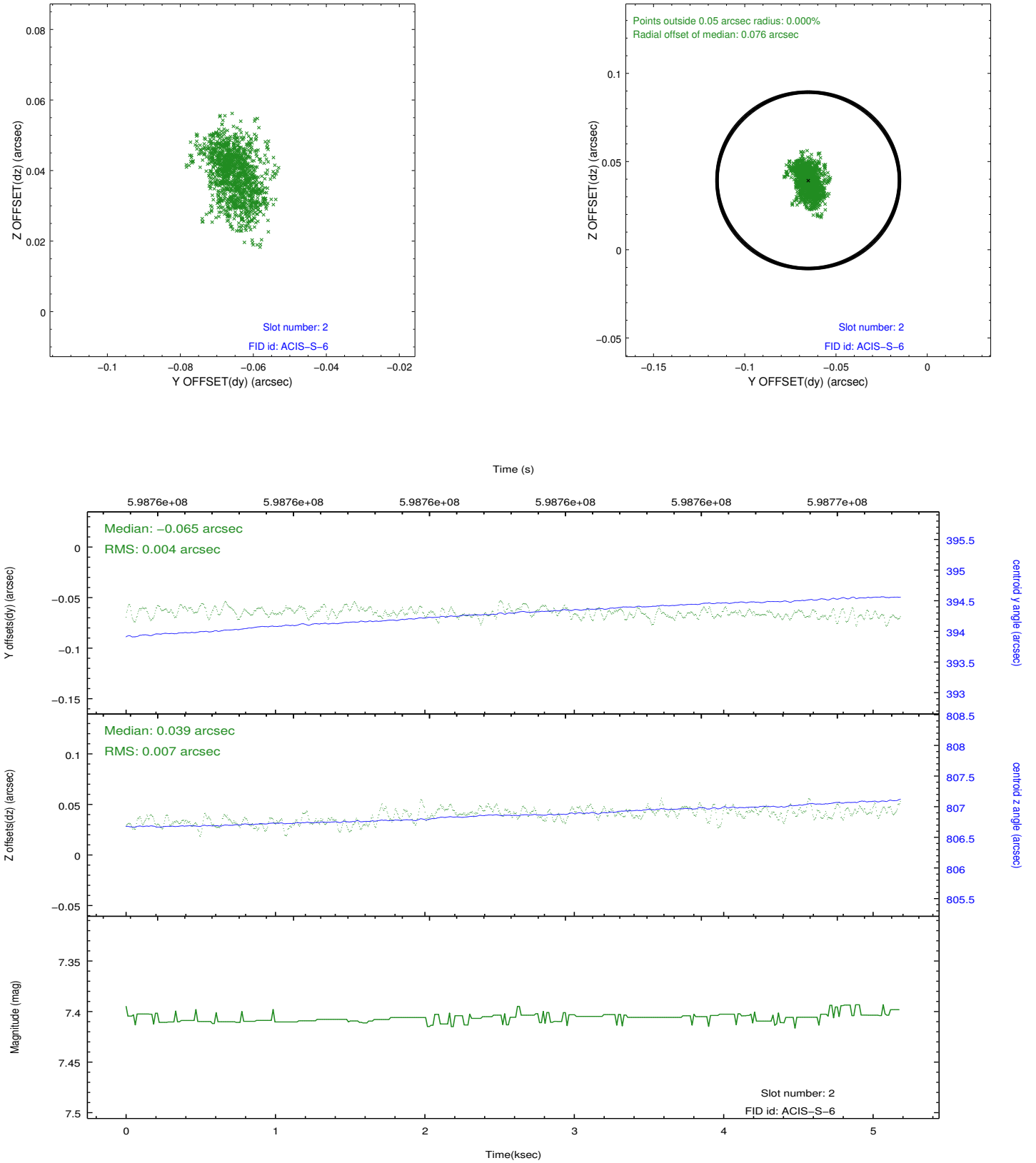
2.5.1 Slot 0



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)	2016.12.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0608889760971

A.2 Comments

Two optional chips were dropped.