

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 21164 - L2 Version 1
Chandra X-Ray Center

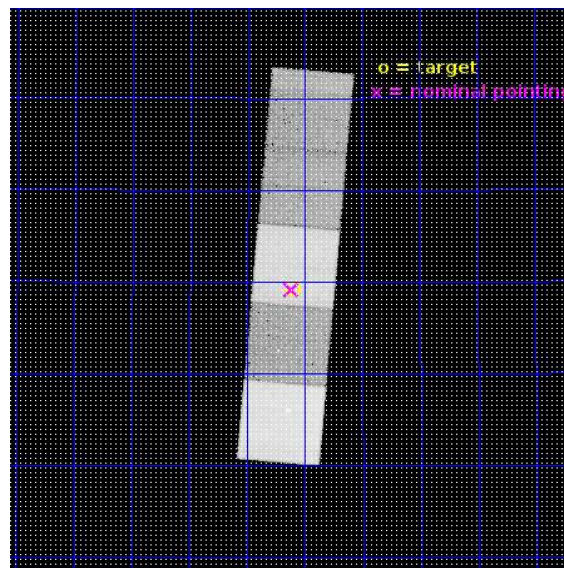
L2 Processing Date : Oct 21 2019

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

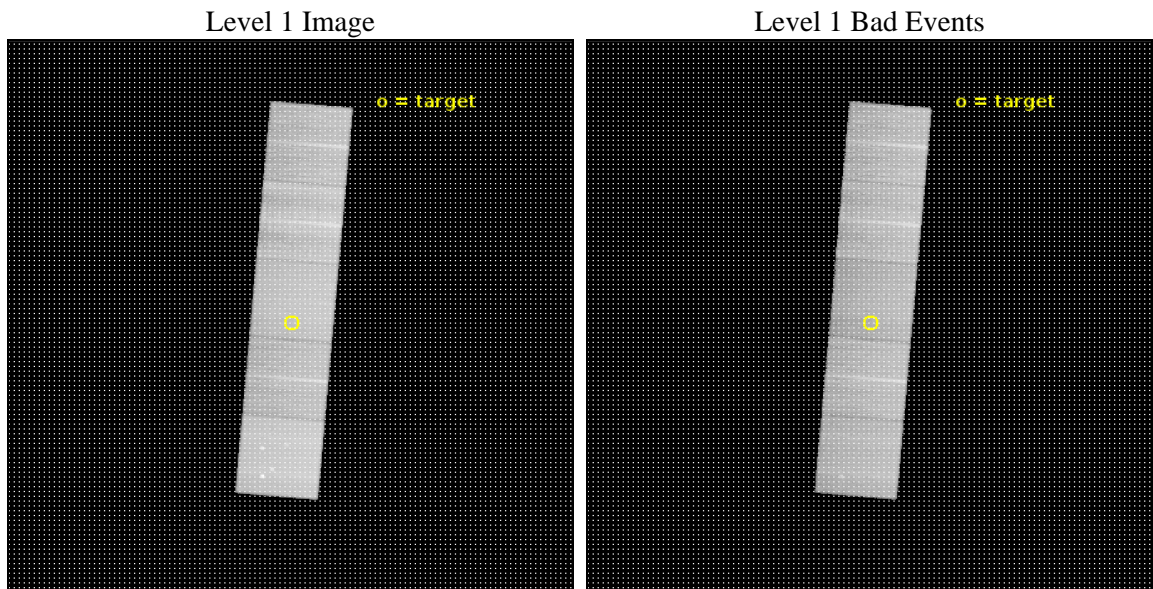
seq_num	201220	Sequence number
obs_id	21164	Observation id
title	Catching an FUor in the Act: Chandra ToO Observations of Extreme Accretion onto Young Stars	Proposal title
observer	David Pooley	Principal investigator
object	Gaia18dvy	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	301.275083	Observer's specified target RA [deg]
dec_targ	36.487089	Observer's specified target Dec [deg]
ra_nom	301.27959245127	Nominal RA [deg]
dec_nom	36.485715001694	Nominal Dec [deg]
roll_nom	274.86364874901	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35050.477127194	Sum of GTIs [s]
livetime	34592.516839742	Livetime [s]
ontime5	35050.436087251	Sum of GTIs [s]
ontime6	35044.113046169	Sum of GTIs [s]
ontime7	35050.477127194	Sum of GTIs [s]
ontime8	35044.072046161	Sum of GTIs [s]
ontime9	35047.171976924	Sum of GTIs [s]
l2events	436308	Number of level 2 events



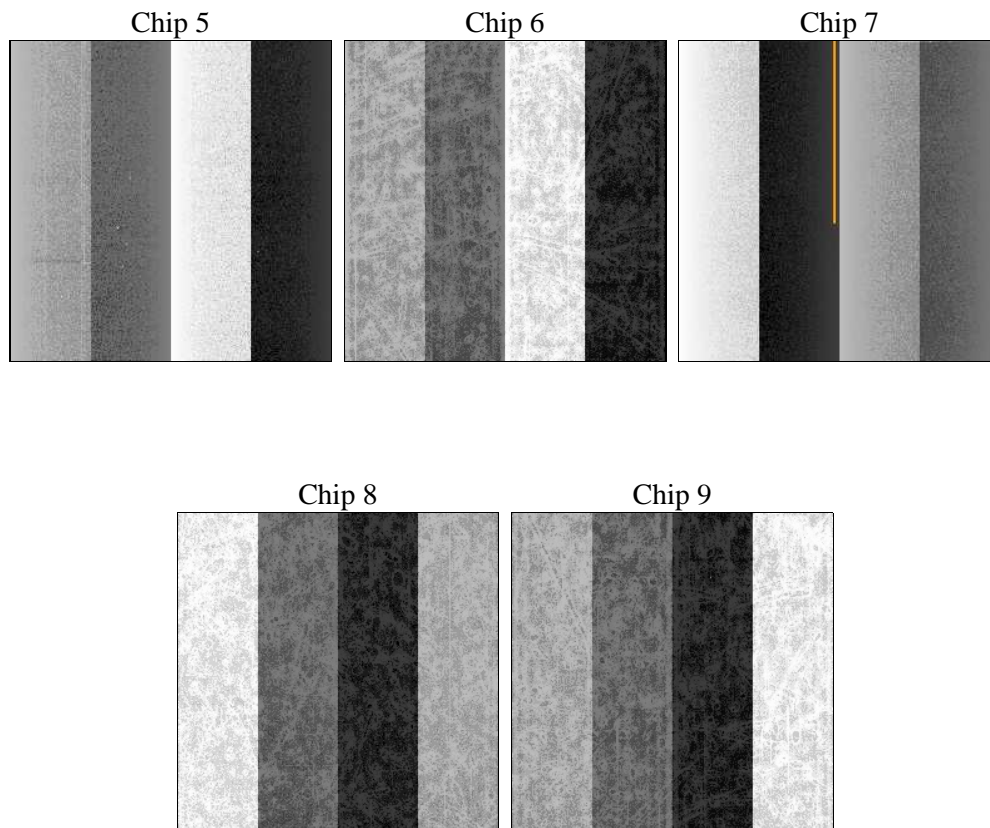
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	35050.477127194	Sum of GTIs [s]
caldbver	4.8.4.2	 	ontime5	35050.436087251	Sum of GTIs [s]
date	2019-10-21T13:36:32	Date and time of file creation	ontime6	35044.113046169	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	35050.477127194	Sum of GTIs [s]
			ontime8	35044.072046161	Sum of GTIs [s]
			ontime9	35047.171976924	Sum of GTIs [s]
			l1events	1733179	Number of level 1 events

2.1.4 Events

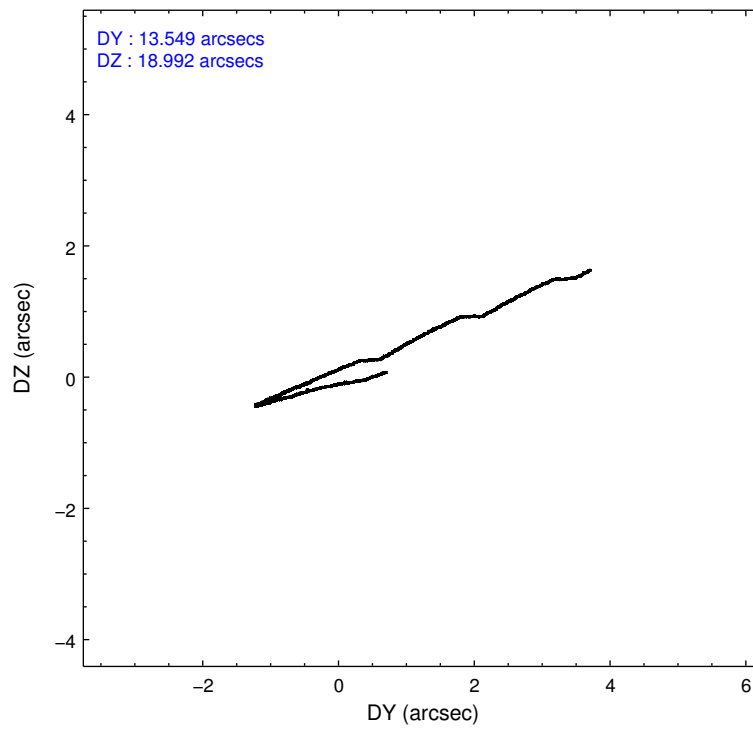
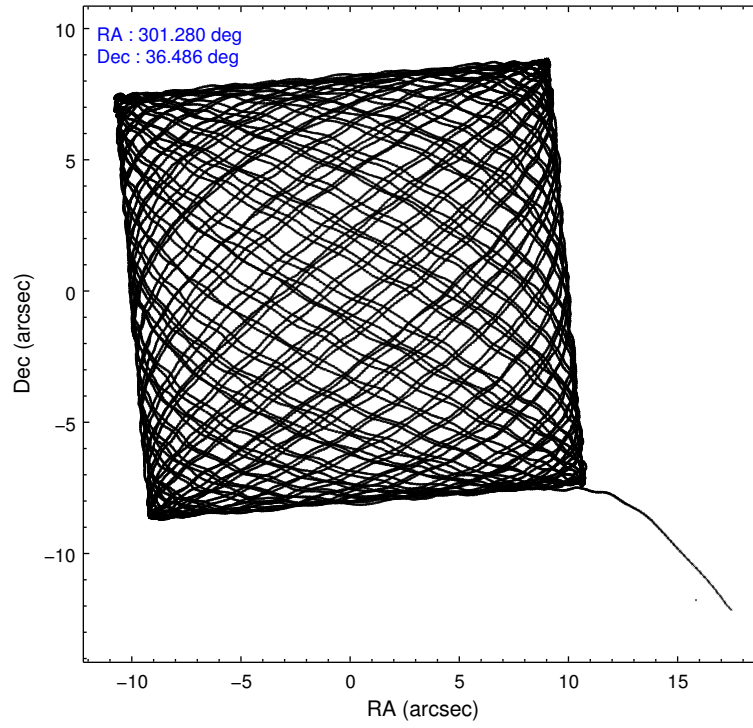
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	442067	289125	352678	363555	285754
rejected events	230824	257677	201528	268421	252089
rejected %	52%	89%	57%	73%	88%

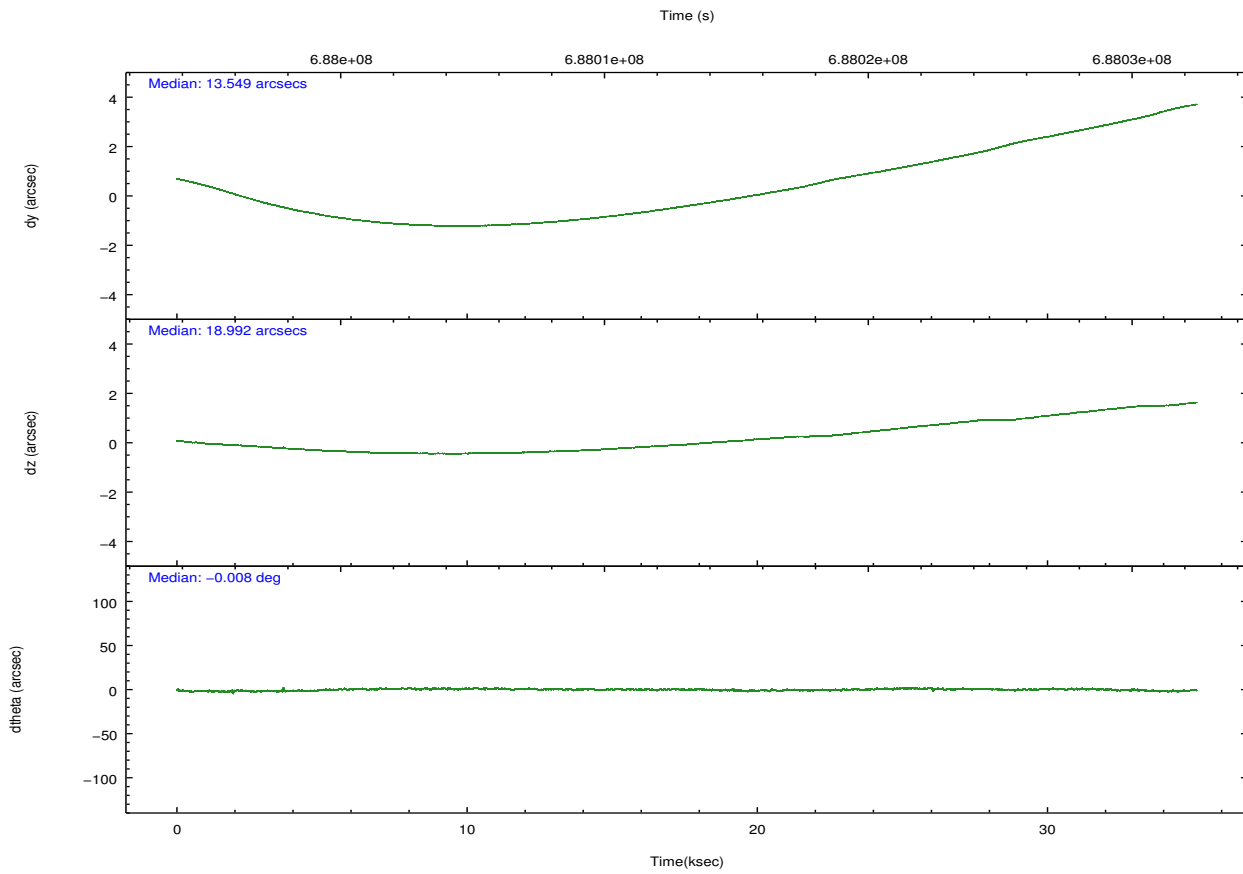
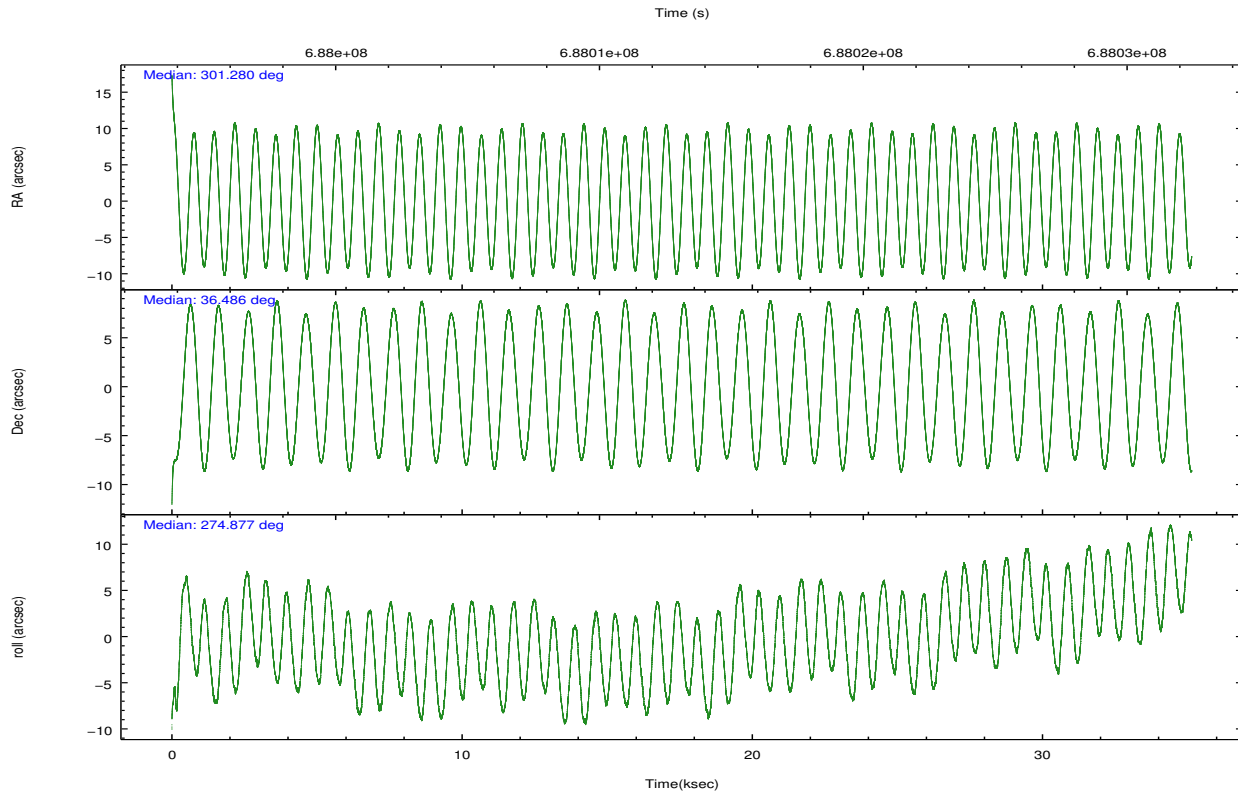
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	15753	9826	12562	26313	11374
	3%	3%	3%	7%	3%
grade 1 events	1783	149	473	265	158
	0%	0%	0%	0%	0%
grade 2 events	66121	8147	32334	23269	8187
	14%	2%	9%	6%	2%
grade 3 events	6176	2824	11744	9401	3286
	1%	0%	3%	2%	1%
grade 4 events	5932	2776	11324	8988	3158
	1%	0%	3%	2%	1%
grade 5 events	28855	11978	34296	19315	14043
	6%	4%	9%	5%	4%
grade 6 events	117283	7878	83198	27173	7663
	26%	2%	23%	7%	2%
grade 7 events	200164	245547	166747	248831	237885
	45%	84%	47%	68%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-56789	ACIS-56789	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	301.259702	301.2795924512724	CCD I2 on	N	N
[deg] Pointing Dec	36.508034	36.48571500169383	CCD I3 on	N	N
[deg] Pointing Roll	274.718851	274.8636487490126	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	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	O3	Y
[s] Observation start time (MET)	687995660.184000	687994562.16706	CCD S5 on	O1	Y
Observation start date	2019-10-20T21:53:11	2019-10-20T21:36:02	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	688030660.184000	688031501.63178	On-chip summing requested	N	N
Observation end date	2019-10-21T07:36:31	2019-10-21T07:51:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



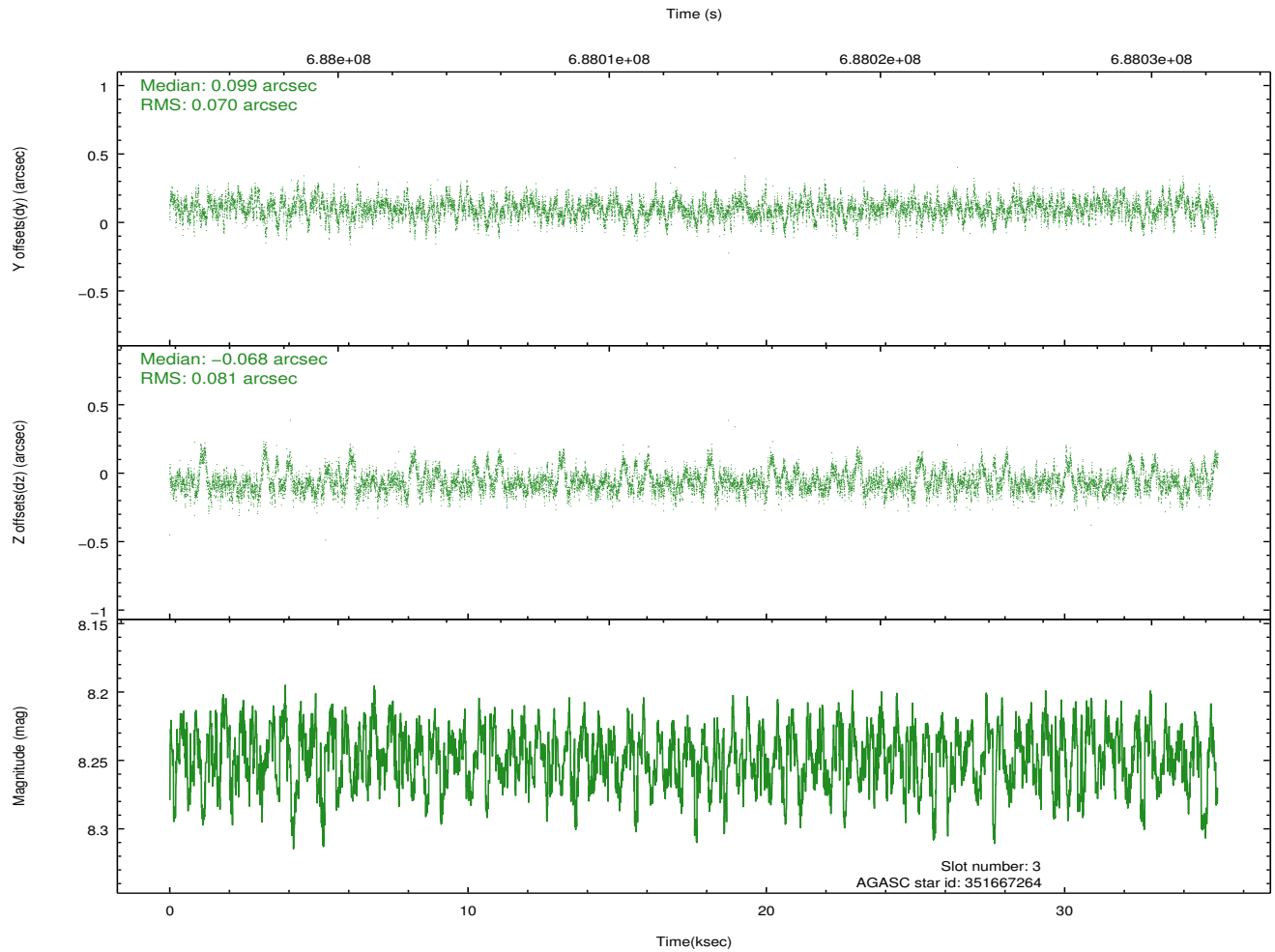
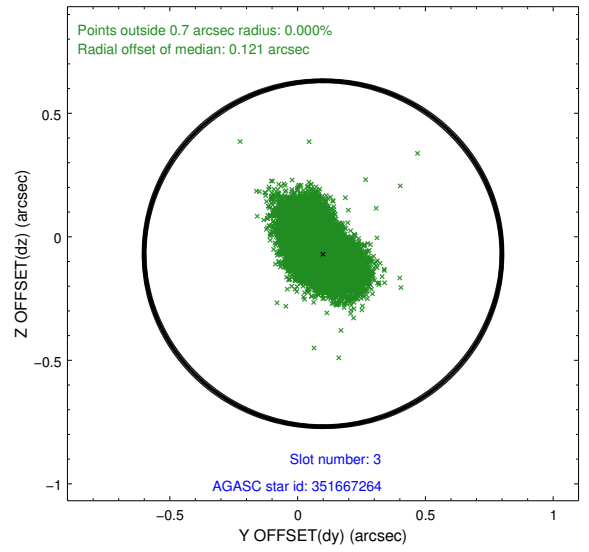
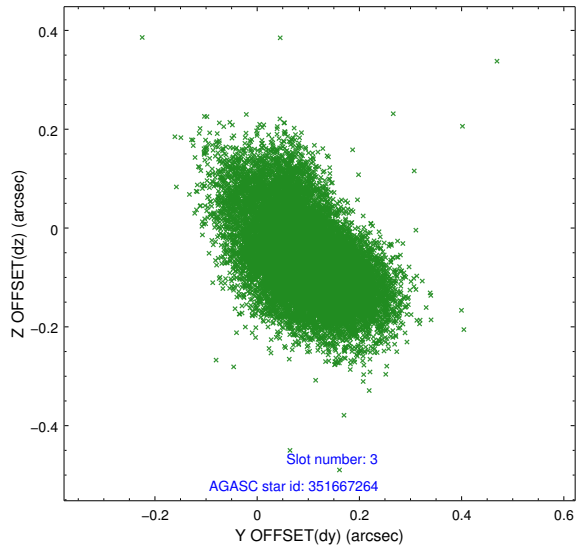


Slot Statistics

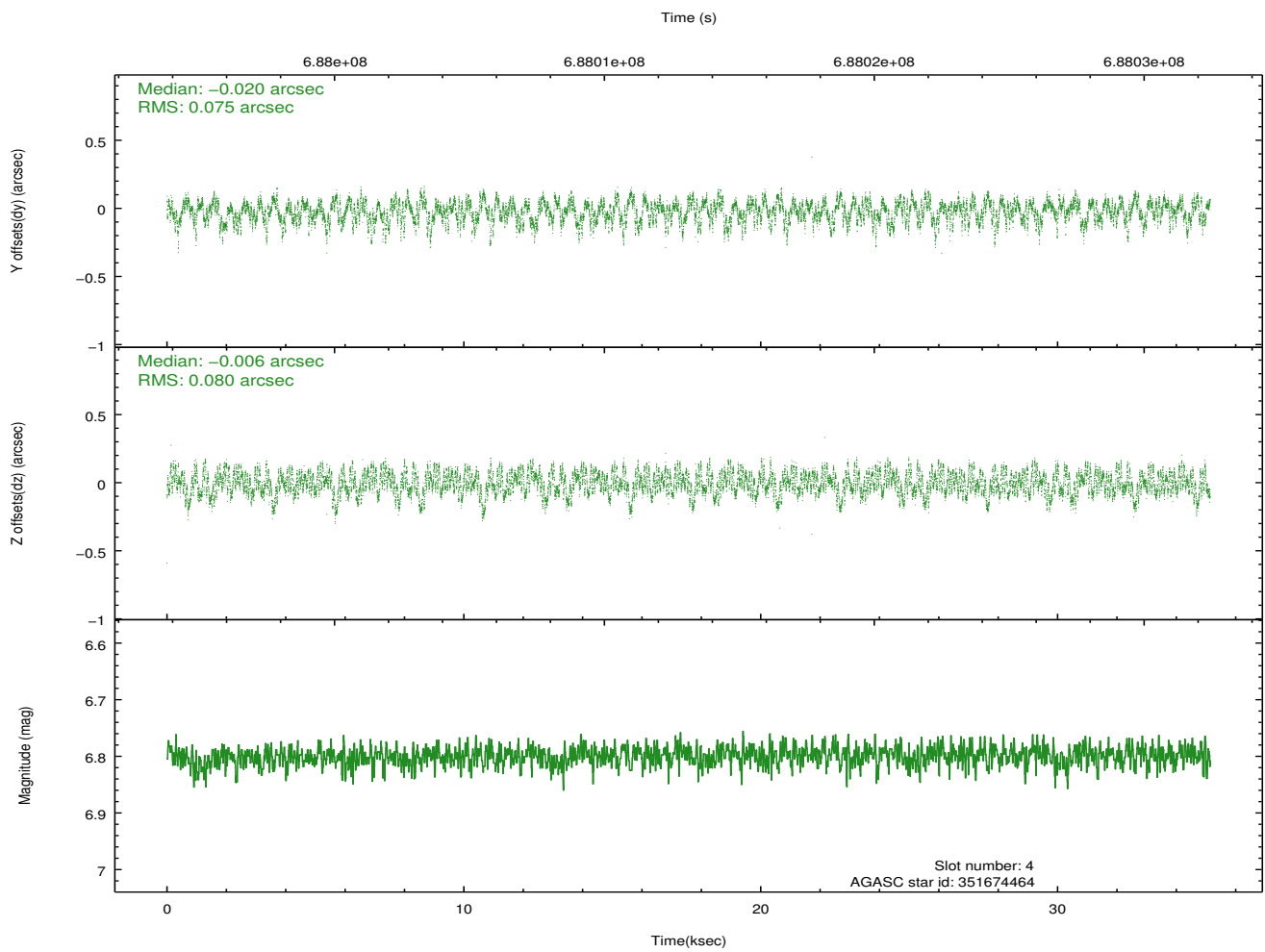
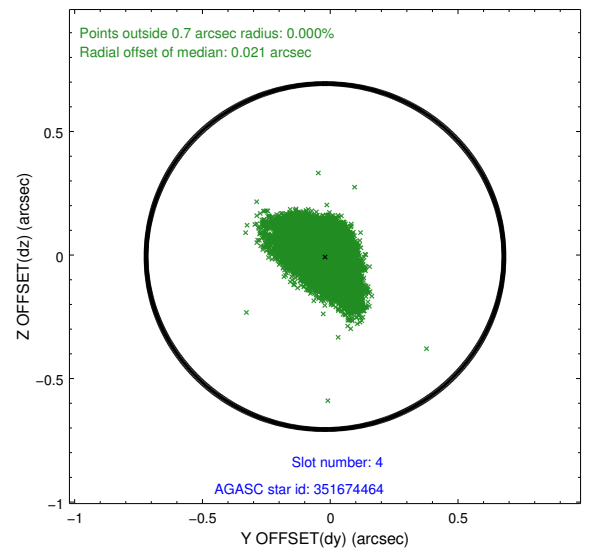
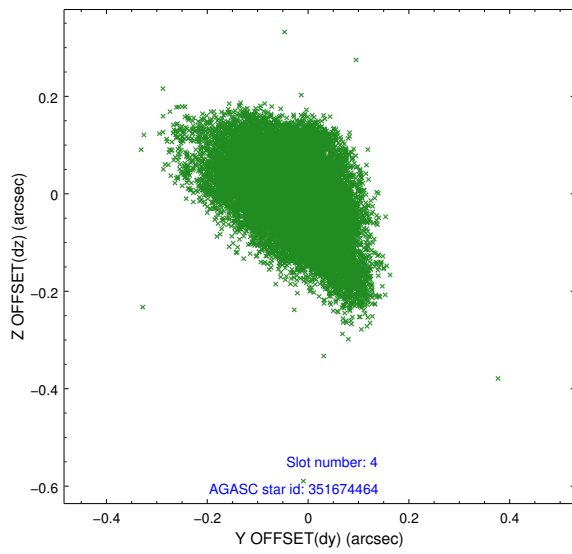
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.15	8571	1.000	0.219	-0.082	0.030	0.071	0.000000	0.000000	929.45	-1736
1	FID		ACIS-S-5	7.14	8570	1.000	-0.520	0.096	0.036	0.056	0.000000	0.000000	-1820.36	161
2	FID		ACIS-S-6	7.31	8571	1.000	0.280	-0.008	0.049	0.097	0.000000	0.000000	394.90	805
3	GUIDE	used	351667264	8.25	17133	1.000	0.099	-0.068	0.108	0.196	301.740045	36.396586	510.77	1353
4	GUIDE	used	351674464	6.80	17141	1.000	-0.020	-0.006	0.114	0.195	301.620779	36.226642	1095.45	959
5	GUIDE	used	351678184	7.86	17133	1.000	-0.058	0.003	0.103	0.167	301.899896	36.930760	-1371.11	1960
6	GUIDE	used	351681856	8.14	17134	1.000	-0.026	0.024	0.084	0.131	301.861303	35.912846	2274.40	1570
7	GUIDE	used	351692280	7.36	17139	1.000	0.014	0.043	0.115	0.181	301.775814	36.826664	-1024.86	1576

2.4 Star Slots

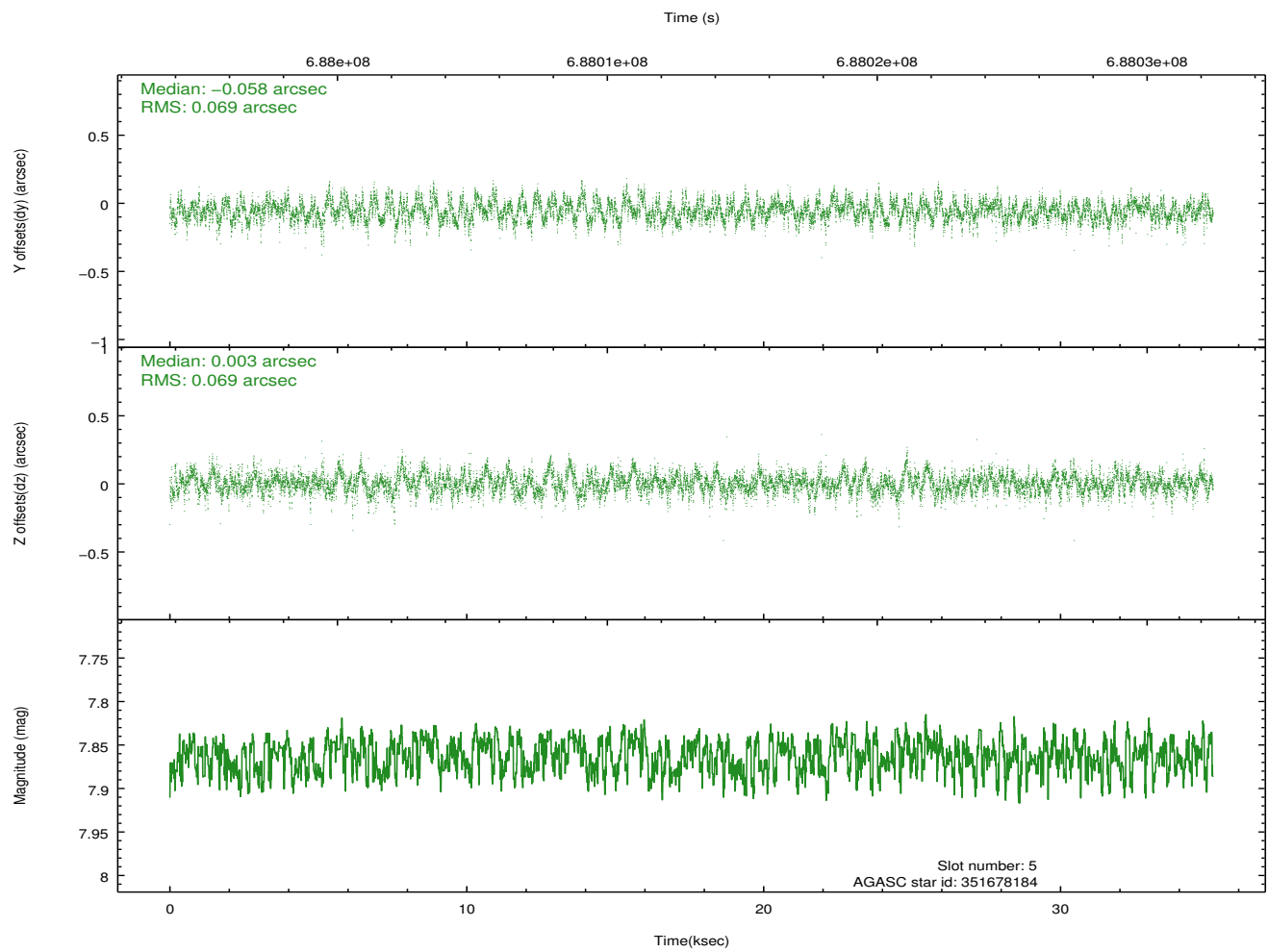
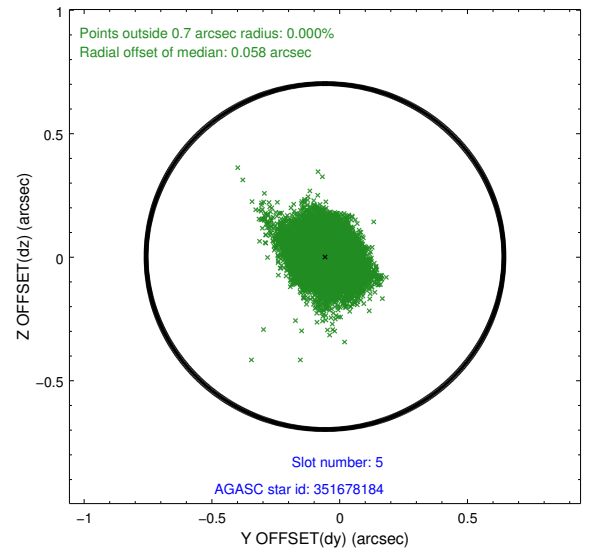
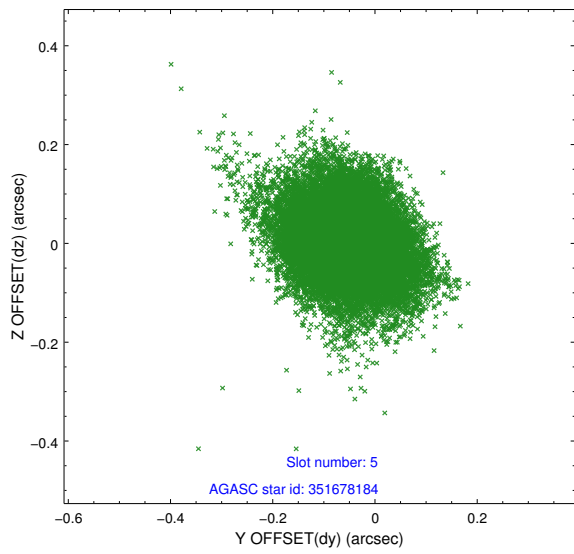
2.4.1 Slot 3



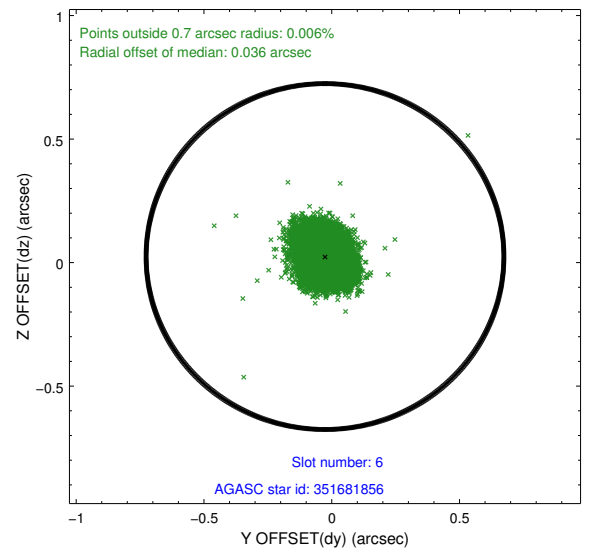
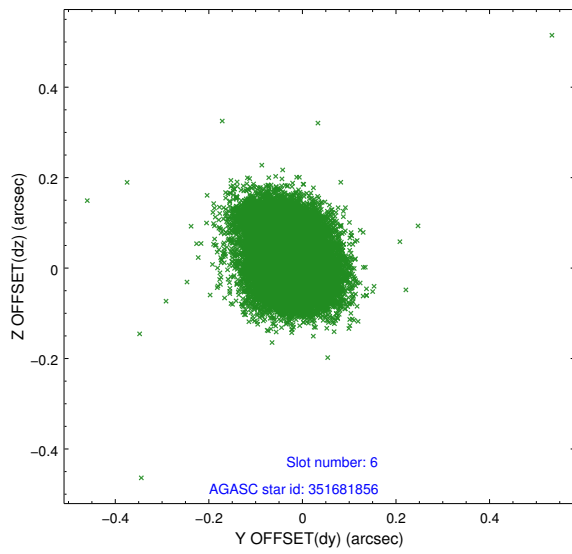
2.4.2 Slot 4



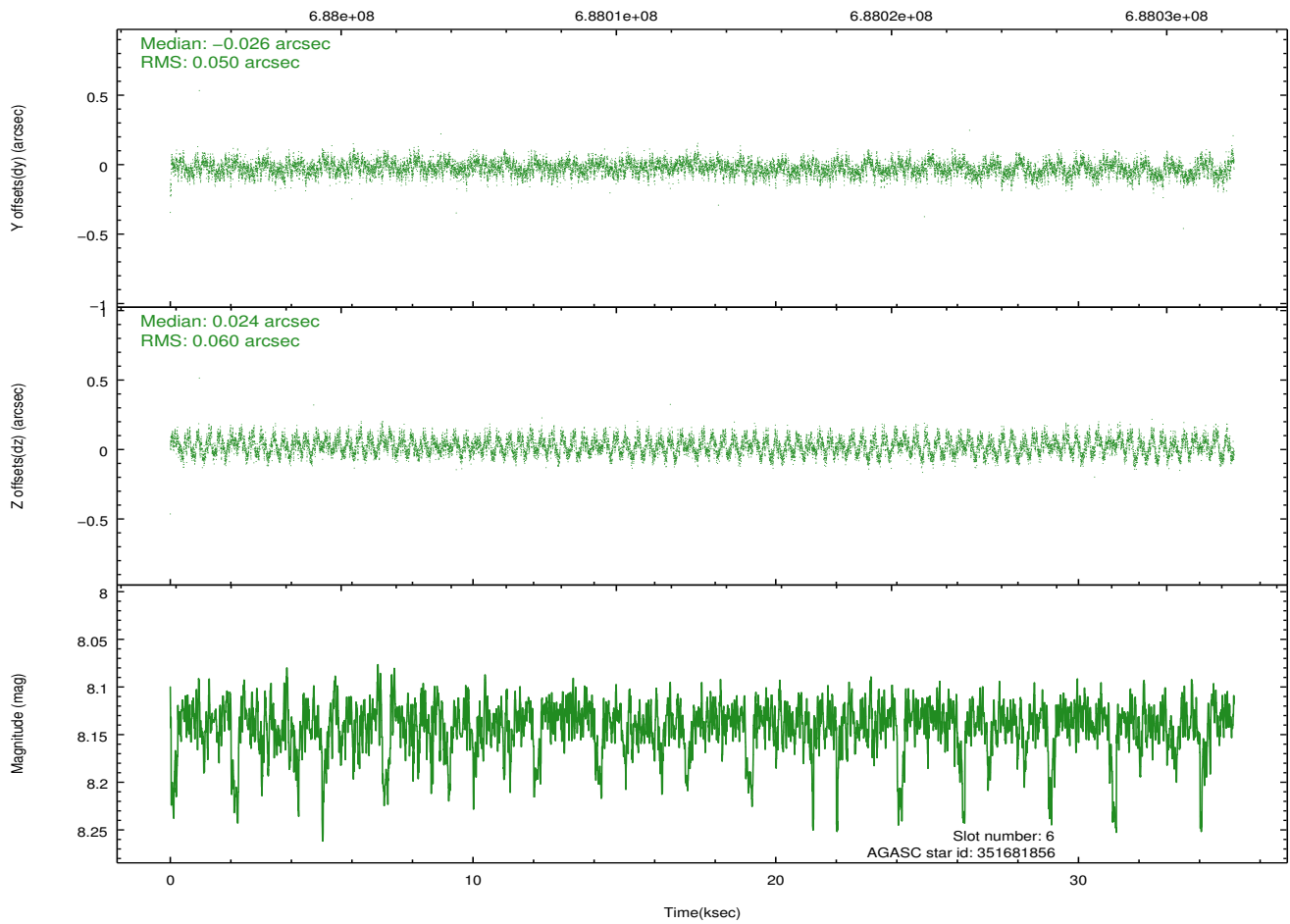
2.4.3 Slot 5



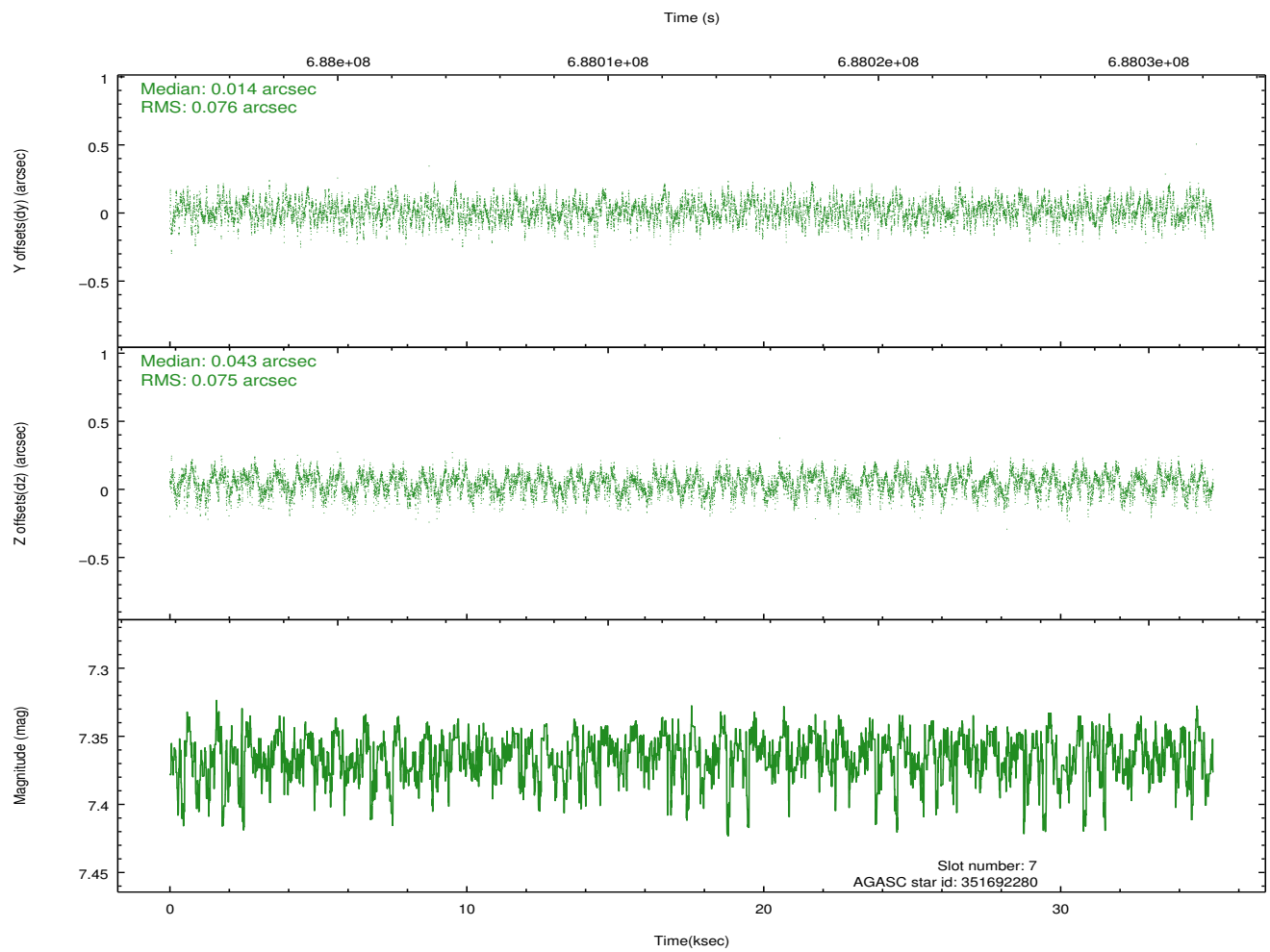
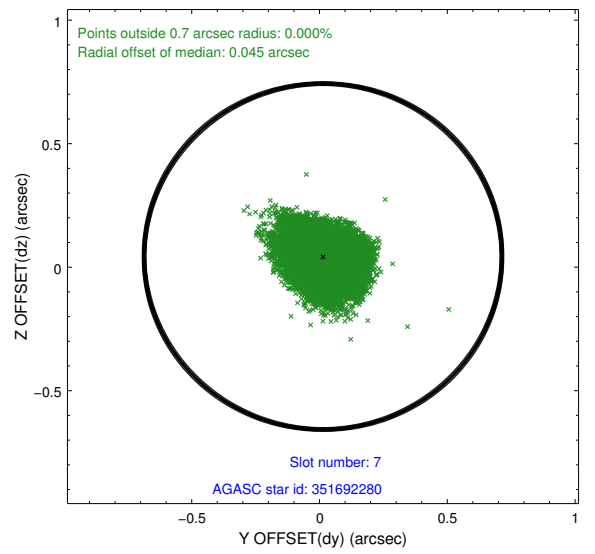
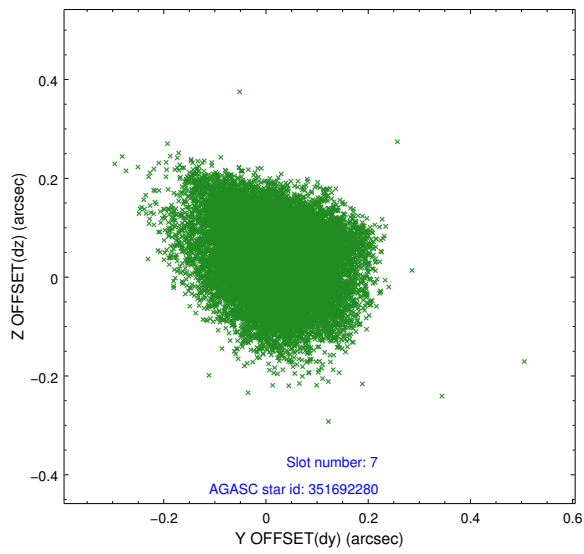
2.4.4 Slot 6



Time (s)

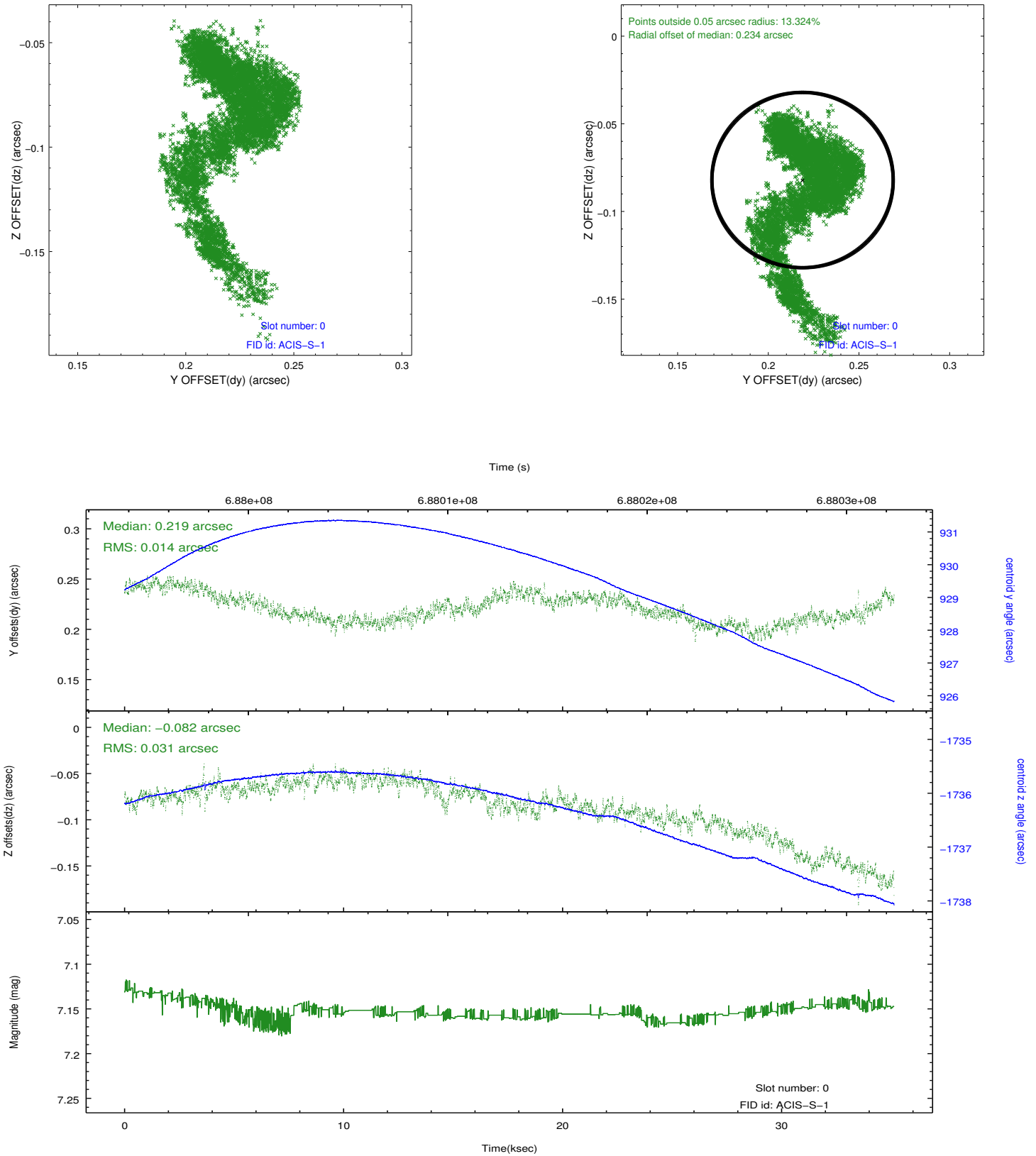


2.4.5 Slot 7

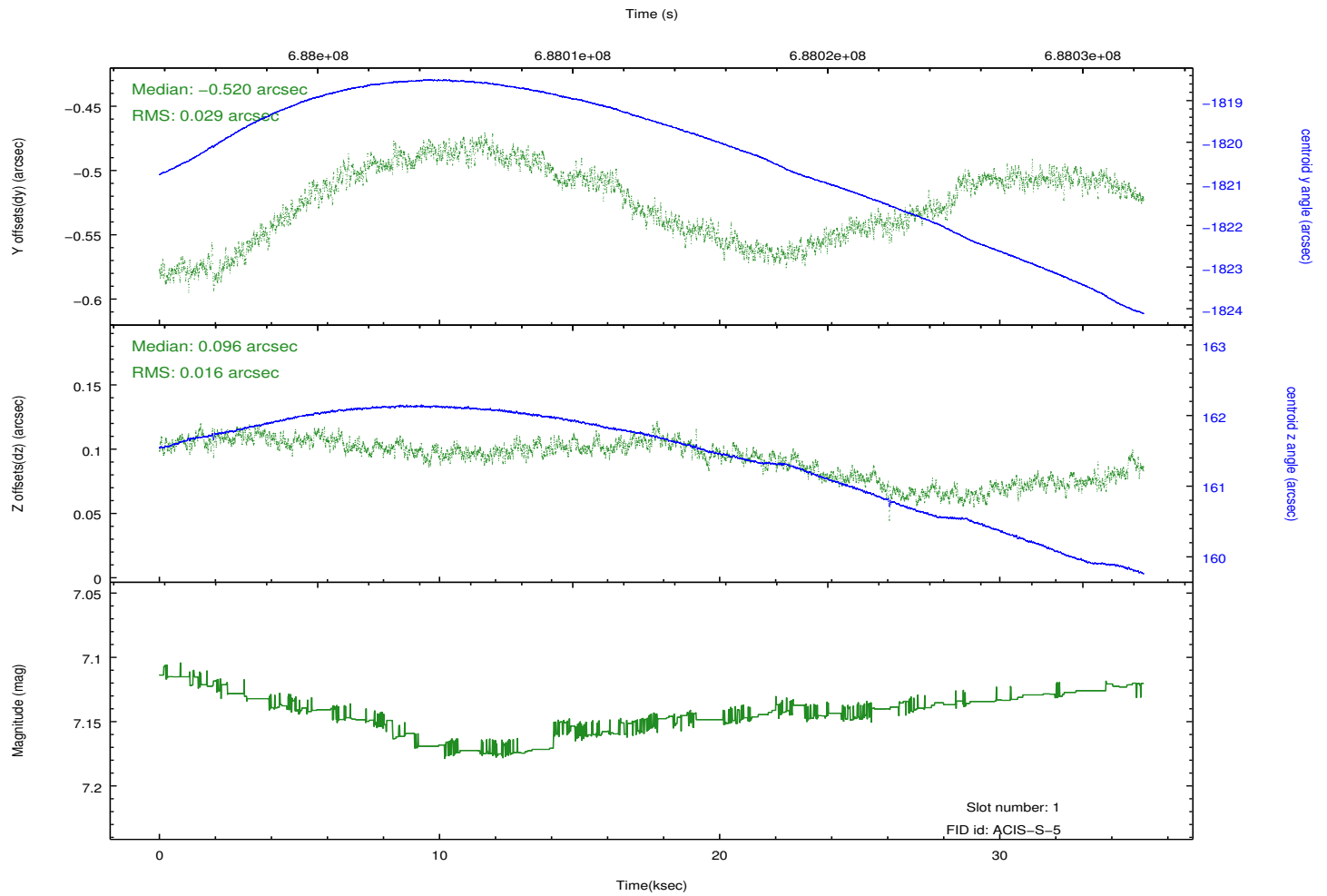
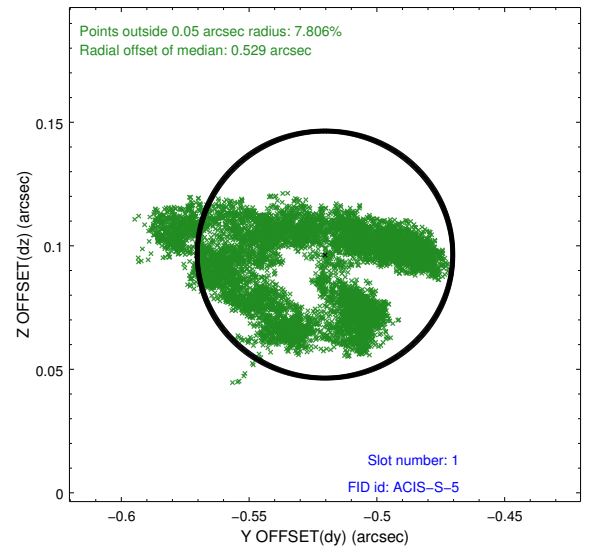
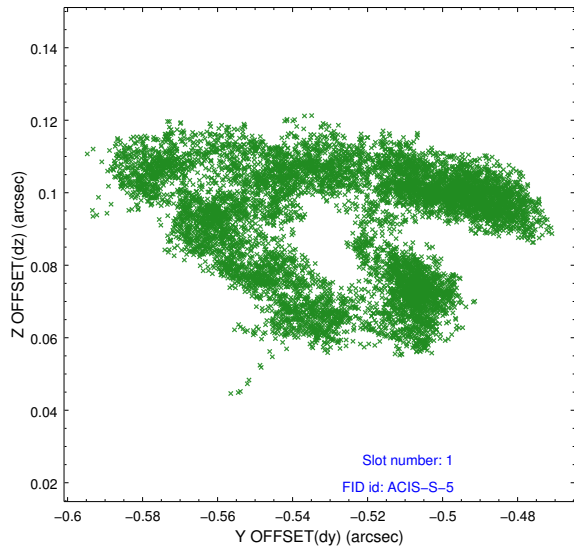


2.5 FID Slots

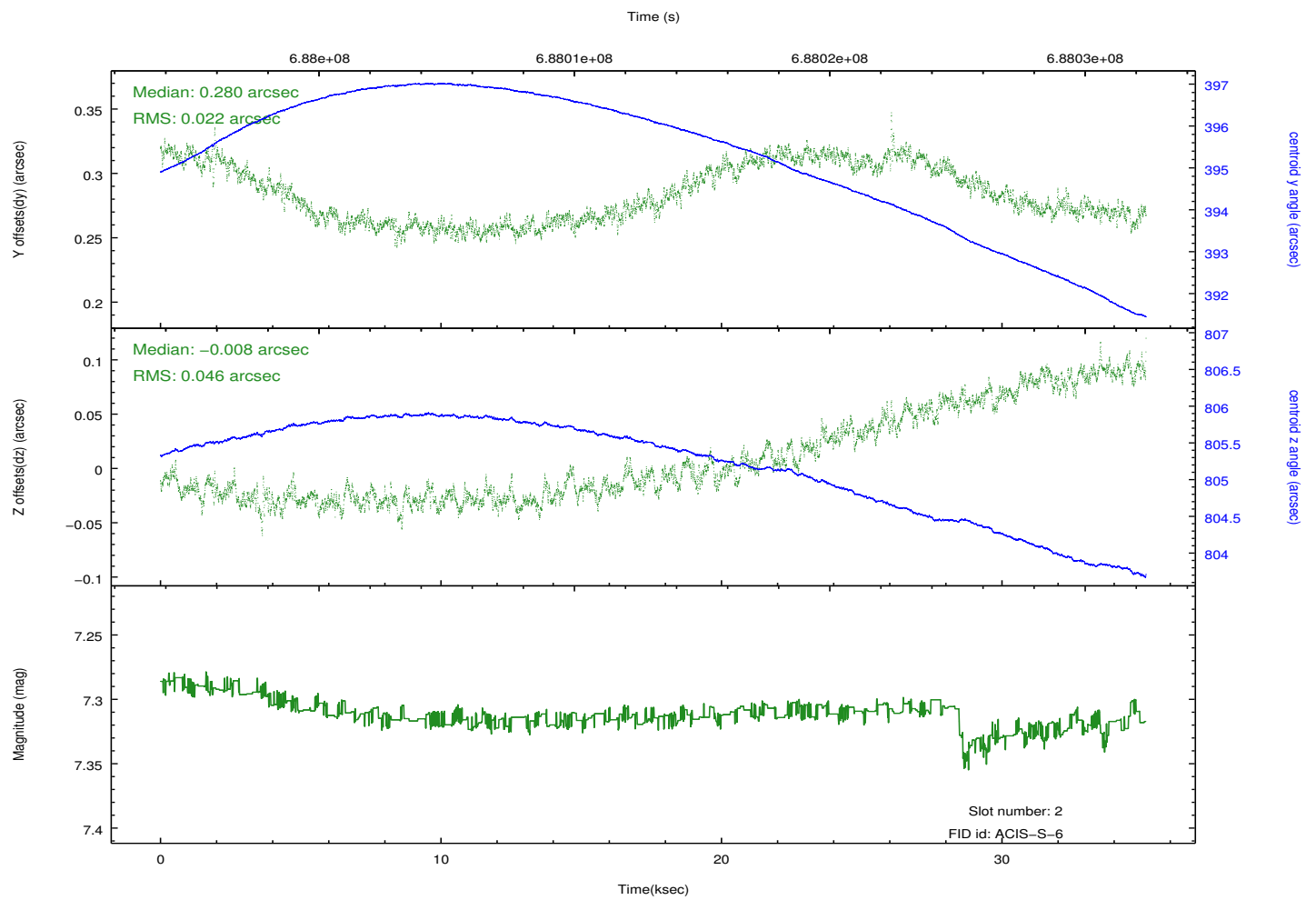
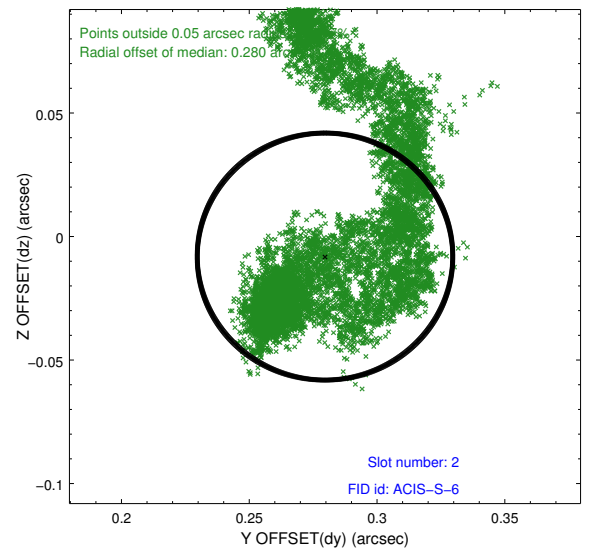
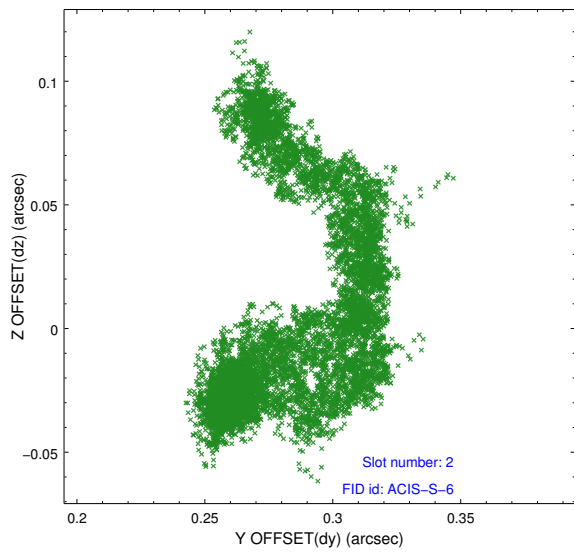
2.5.1 Slot 0



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)	2019.10.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.050477127194

A.2 Comments

Monitor constraint met, follows obsid 21163 by 81 days.