

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20109 - L2 Version 1
Chandra X-Ray Center

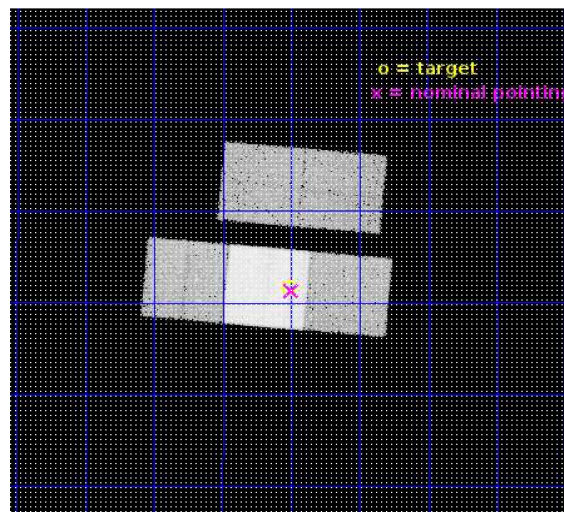
L2 Processing Date : Jul 12 2017

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1 Front

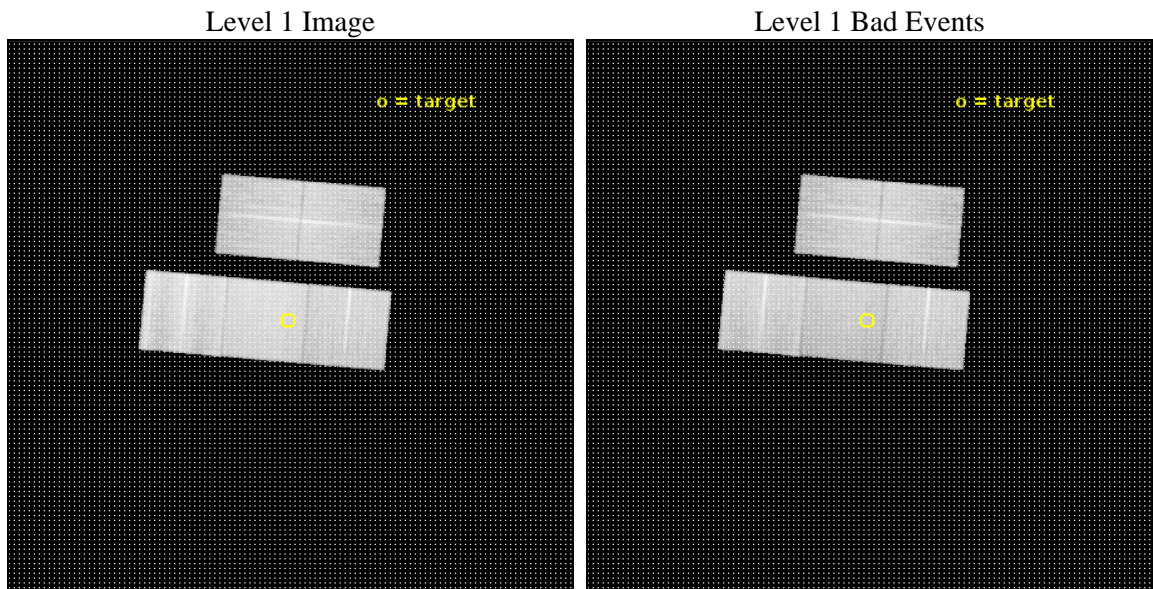
seq_num	201122	Sequence number
obs_id	20109	Observation id
title	Using the sharp Chandra's eyes to find a neutron star lurking in the wind of WR124	Proposal title
observer	Lidia Oskinova	Principal investigator
object	WR 124	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.87875	Observer's specified target RA [deg]
dec_targ	16.860583	Observer's specified target Dec [deg]
ra_nom	287.87453494234	Nominal RA [deg]
dec_nom	16.85557403626	Nominal Dec [deg]
roll_nom	185.15782974926	Nominal Roll [deg]
revision	1	Processing version of data
ontime	28823.800221801	Sum of GTIs [s]
livetime	28447.19605213	Livetime [s]
ontime2	28823.800221801	Sum of GTIs [s]
ontime3	28823.800221801	Sum of GTIs [s]
ontime6	28823.800221801	Sum of GTIs [s]
ontime7	28823.800221801	Sum of GTIs [s]
ontime8	28823.800221801	Sum of GTIs [s]
l2events	194407	Number of level 2 events



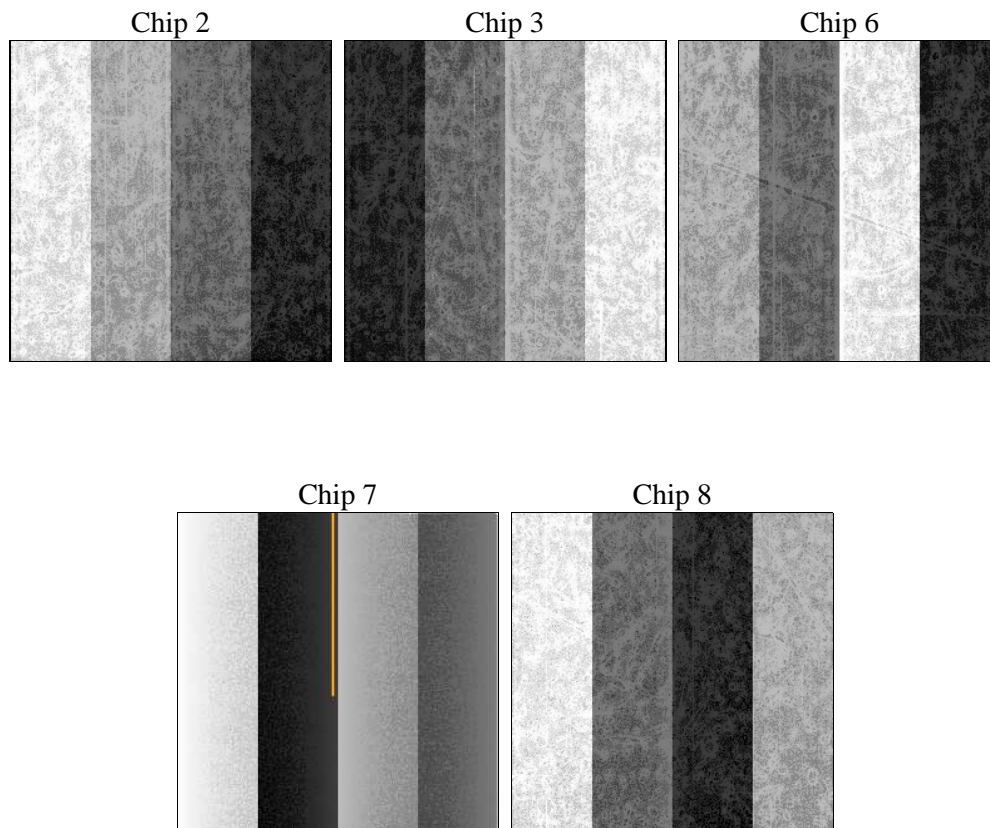
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28765.067000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	28823.800221801	Sum of GTIs [s]
caldsver	4.7.5	 	ontime2	28823.800221801	Sum of GTIs [s]
date	2017-07-12T08:25:24	Date and time of file creation	ontime3	28823.800221801	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	28823.800221801	Sum of GTIs [s]
			ontime7	28823.800221801	Sum of GTIs [s]
			ontime8	28823.800221801	Sum of GTIs [s]
			l1events	1158324	Number of level 1 events

2.1.4 Events

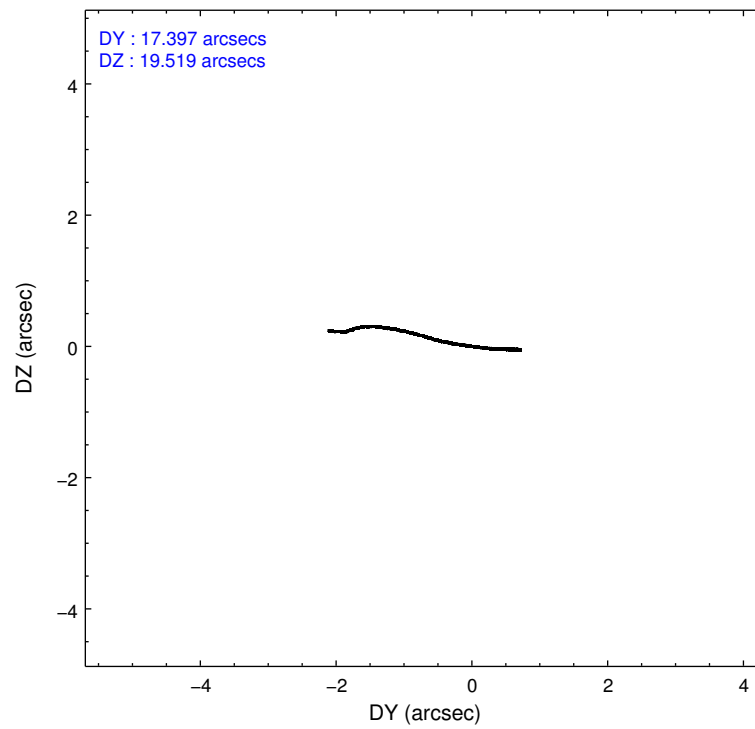
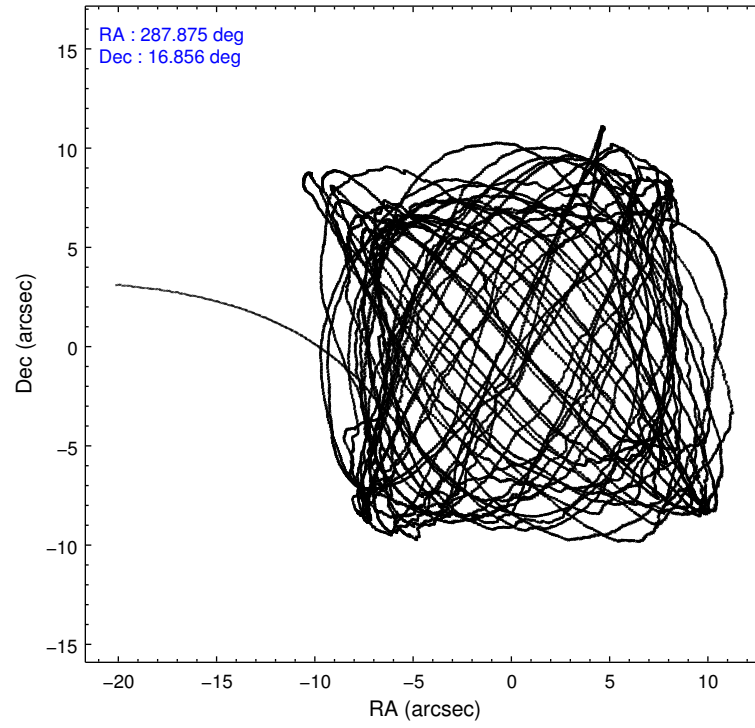
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	206945	198934	213296	266303	272846
rejected events	184929	177807	189114	150502	198574
rejected %	89%	89%	88%	56%	72%

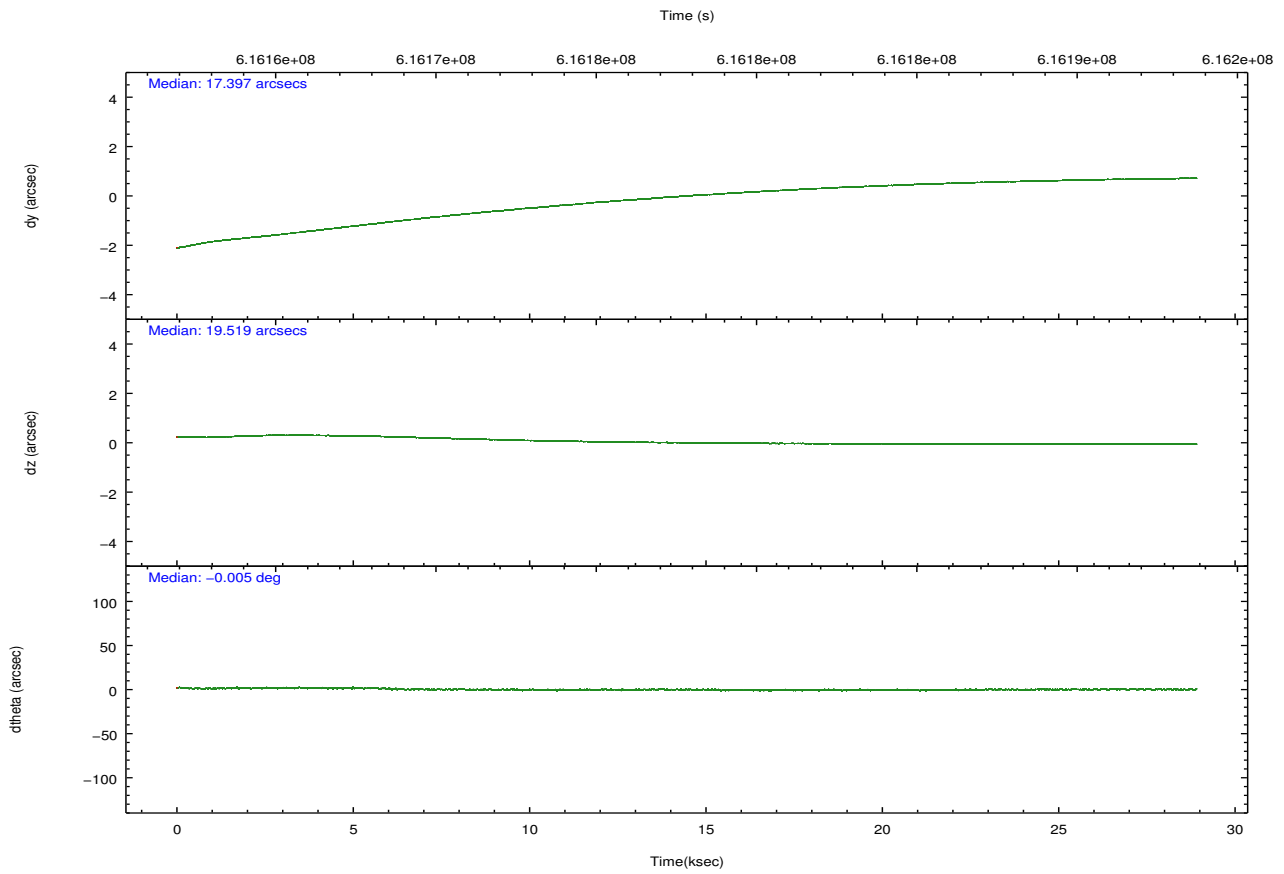
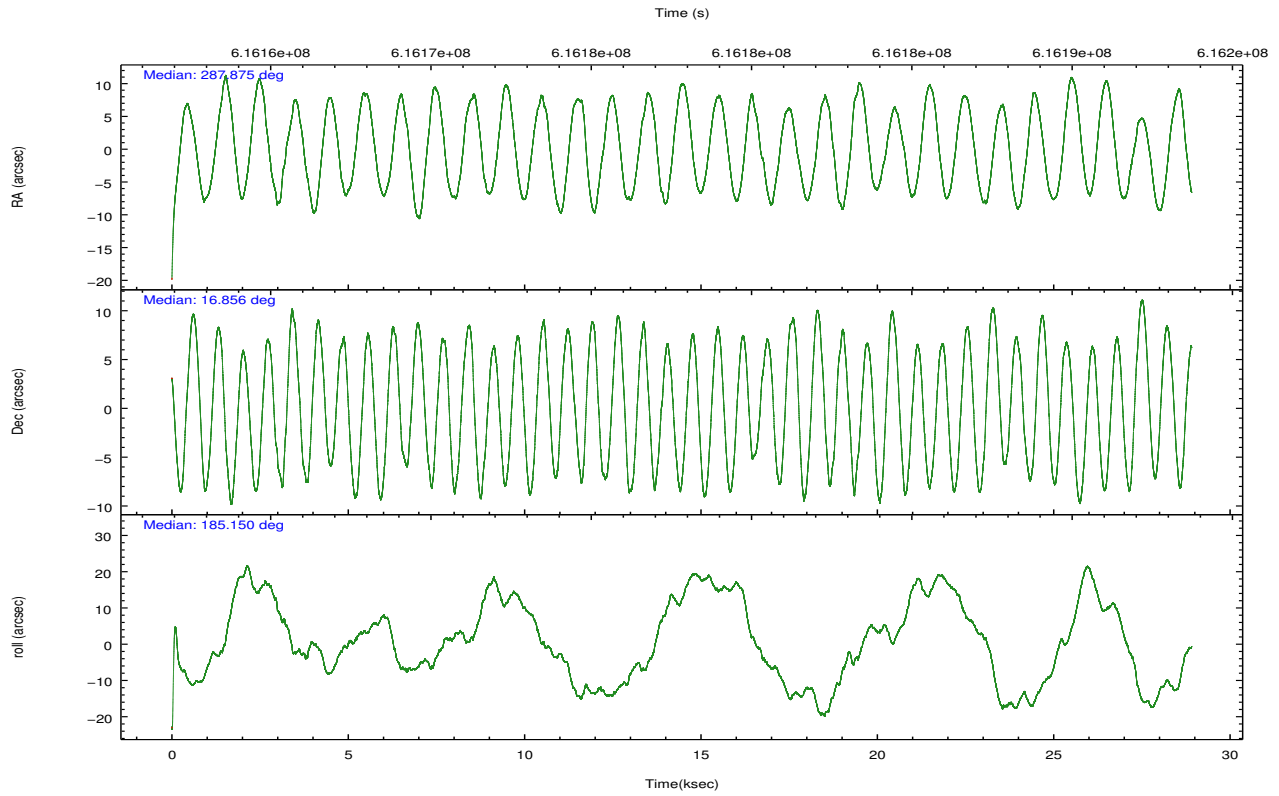
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	7723	7330	7936	9802	20805
	3%	3%	3%	3%	7%
grade 1 events	115	96	122	391	234
	0%	0%	0%	0%	0%
grade 2 events	5553	4634	5791	24769	18110
	2%	2%	2%	9%	6%
grade 3 events	2185	2364	2378	9320	7718
	1%	1%	1%	3%	2%
grade 4 events	2279	2211	2347	9367	7271
	1%	1%	1%	3%	2%
grade 5 events	8090	9853	9873	27128	14544
	3%	4%	4%	10%	5%
grade 6 events	4277	4588	5731	62559	20371
	2%	2%	2%	23%	7%
grade 7 events	176723	167858	179118	122967	183793
	85%	84%	83%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	287.897762	287.8745349423384	CCD I2 on	Y	Y
[deg] Pointing Dec	16.871678	16.85557403625985	CCD I3 on	Y	Y
[deg] Pointing Roll	184.994483	185.1578297492642	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	N
[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)	616163529.184000	616162552.6992199	CCD S5 on	N	N
Observation start date	2017-07-11T12:31:00	2017-07-11T12:15:52	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	616192294.184000	616192518.57596	On-chip summing requested	N	N
Observation end date	2017-07-11T20:30:25	2017-07-11T20:35:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



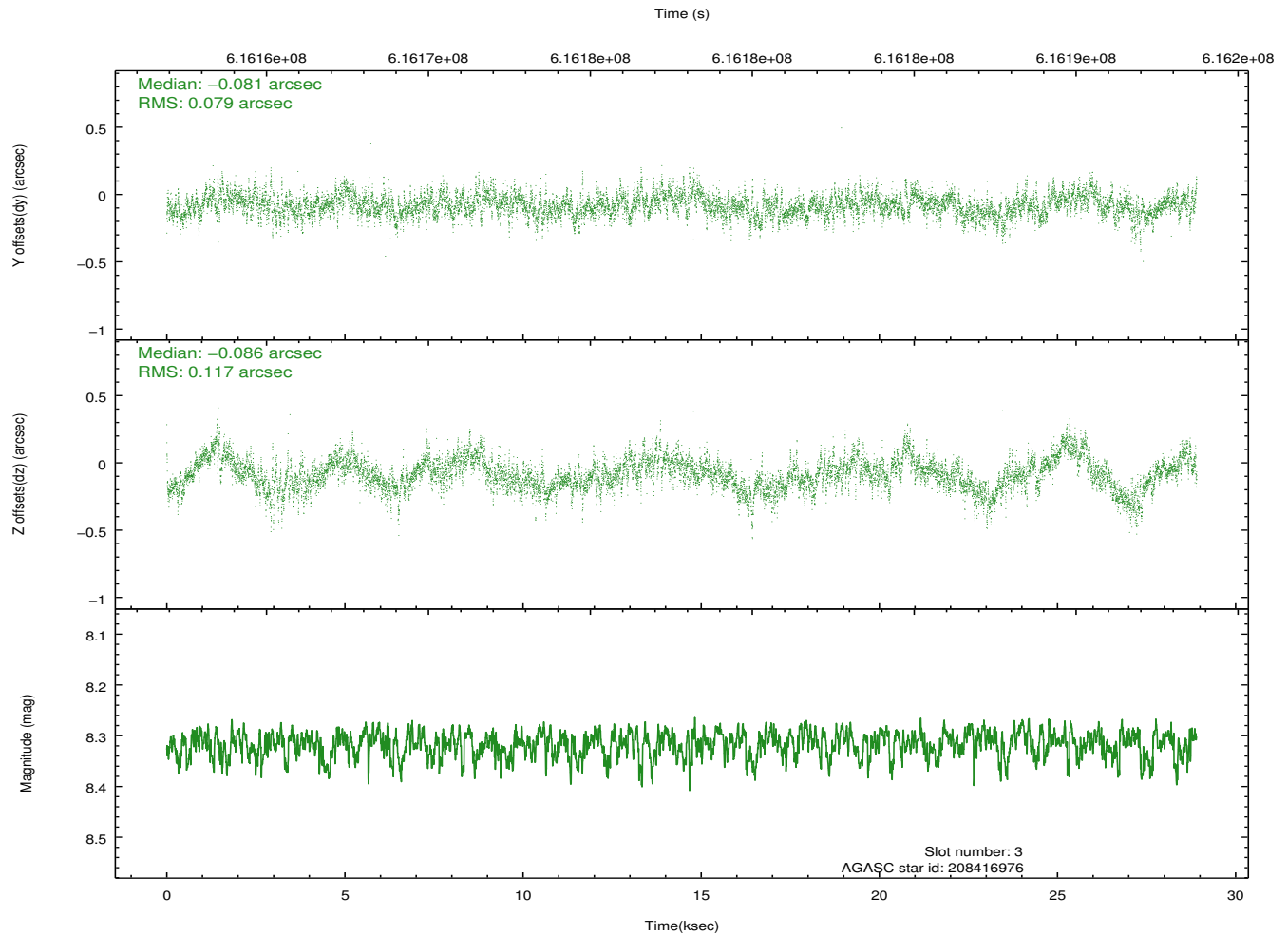
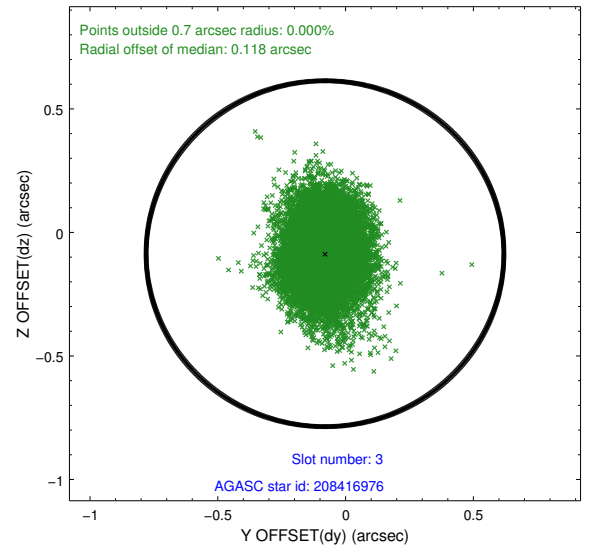
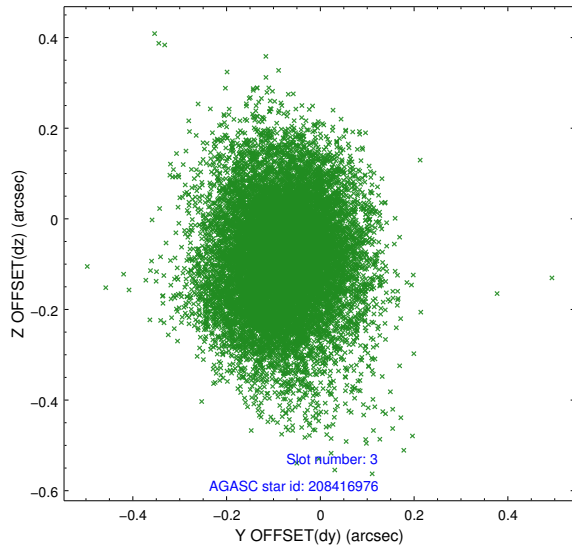


Slot Statistics

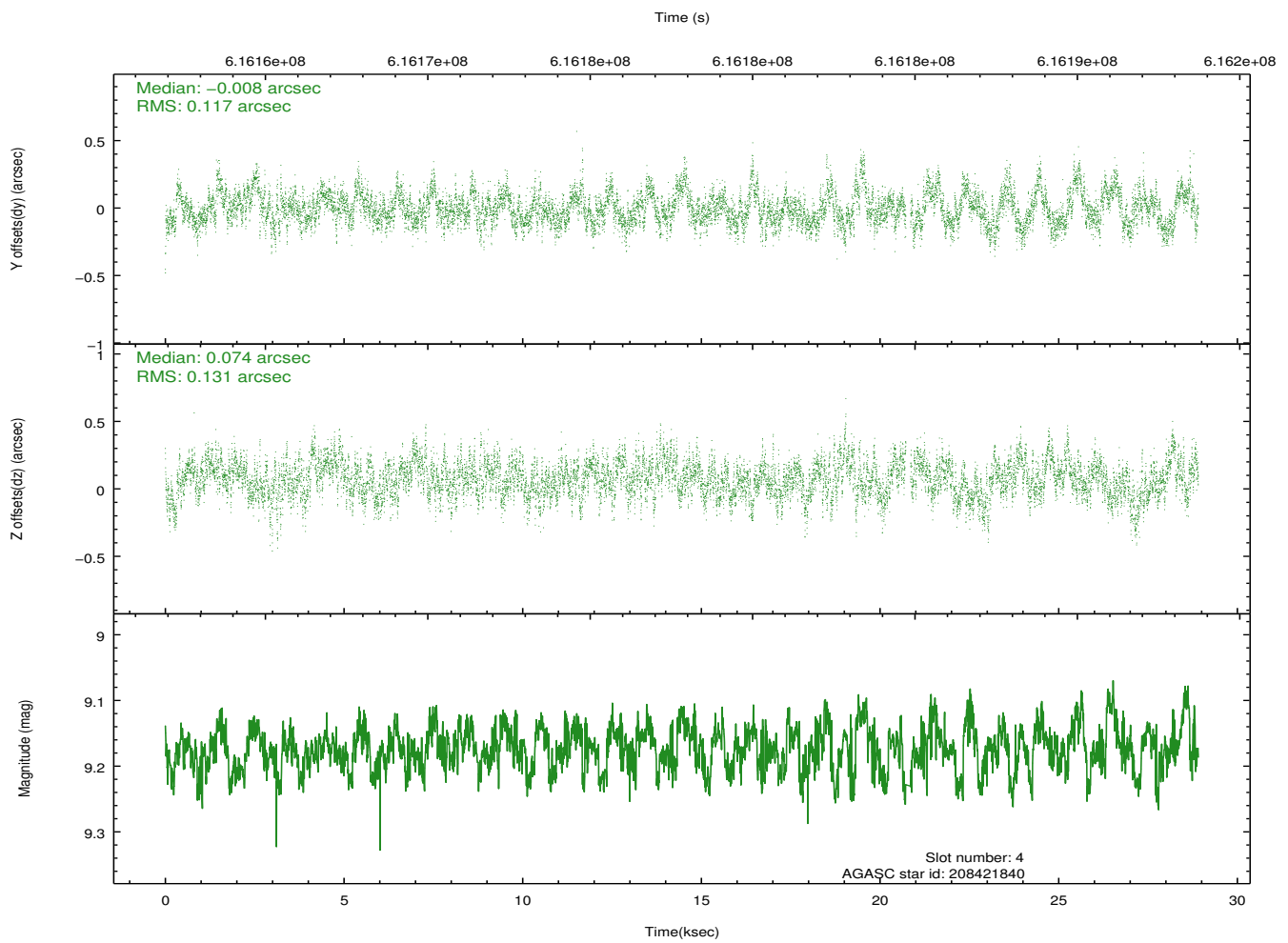
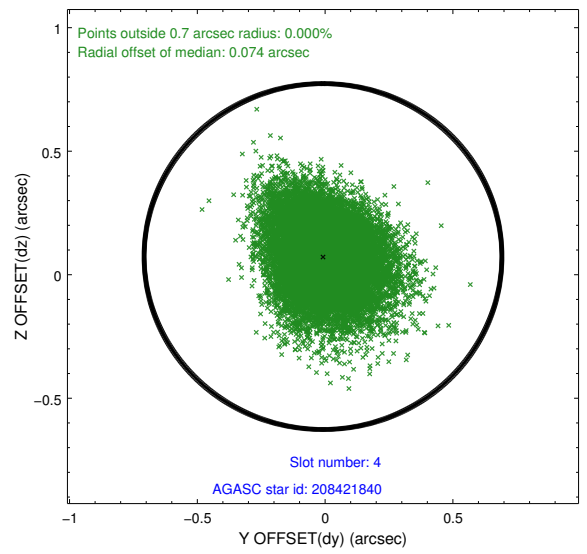
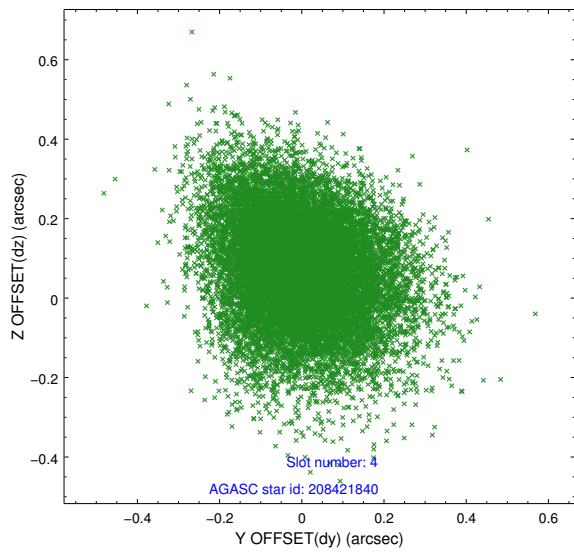
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	7052	-0.206	-0.089	0.014	0.023	0.000000	0.000000	-770.35	-1741.19
1	FID		ACIS-S-4	7.07	7052	0.486	0.122	0.017	0.026	0.000000	0.000000	2143.54	167.48
2	FID		ACIS-S-5	7.05	7051	-0.316	-0.024	0.018	0.030	0.000000	0.000000	-1823.24	161.00
3	GUIDE	used	208416976	8.32	14097	-0.081	-0.086	0.147	0.251	287.326965	17.073967	1894.51	-898.11
4	GUIDE	used	208421840	9.17	14027	-0.008	0.074	0.186	0.305	287.570311	16.918850	1109.27	-267.90
5	GUIDE	used	209596088	9.31	14089	-0.069	-0.306	0.196	0.329	288.150718	16.305149	-692.85	2106.99
6	GUIDE	used	210120944	8.39	14092	0.175	0.524	0.151	0.261	288.245736	17.506735	-1388.50	-2173.91
7	GUIDE	used	209585448	7.93	14033	-0.024	-0.207	0.123	0.214	288.114724	16.850123	-739.55	145.39

2.4 Star Slots

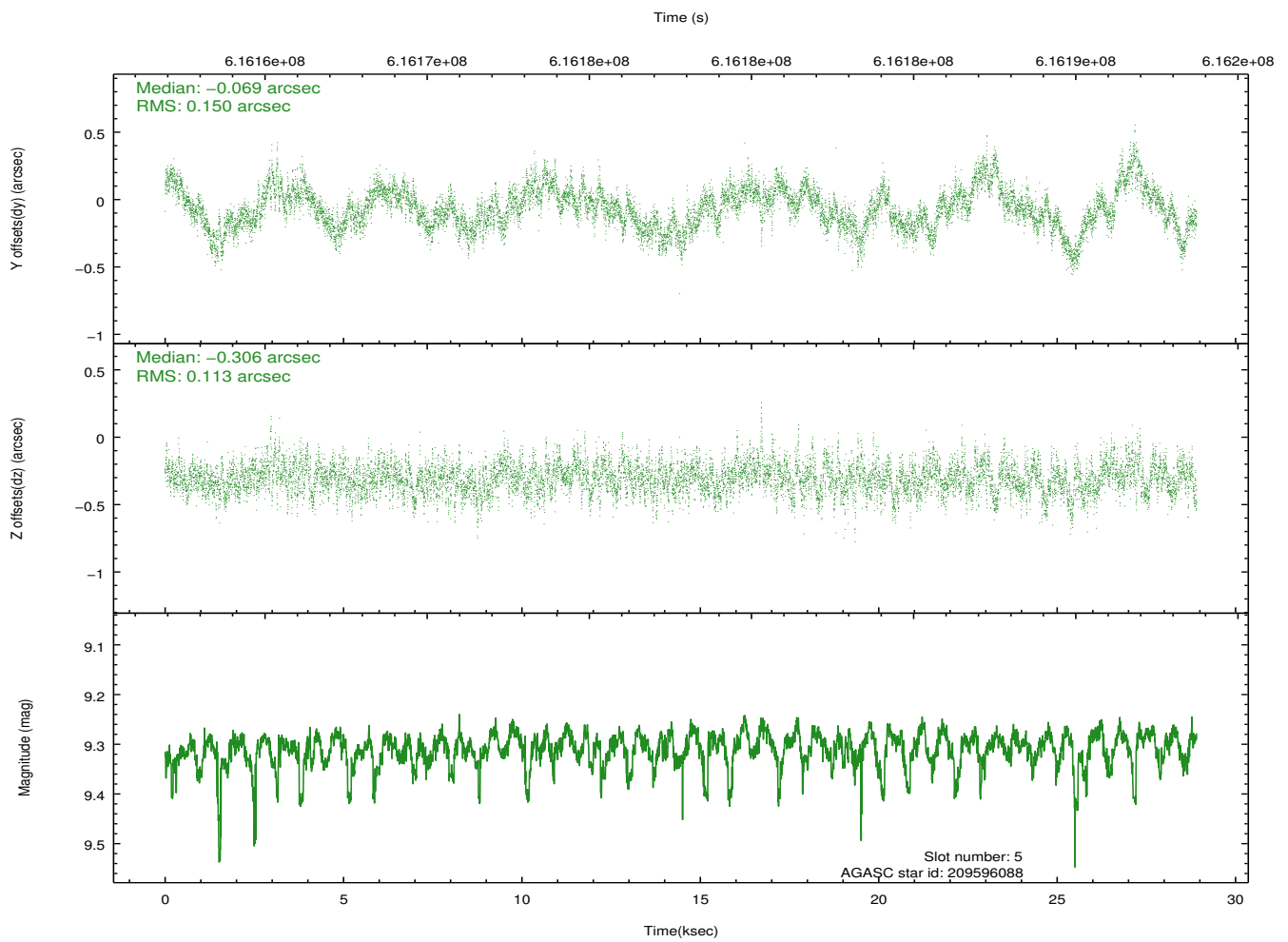
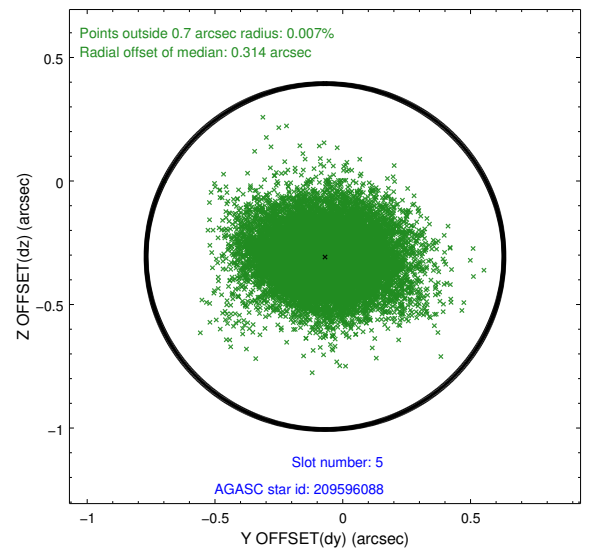
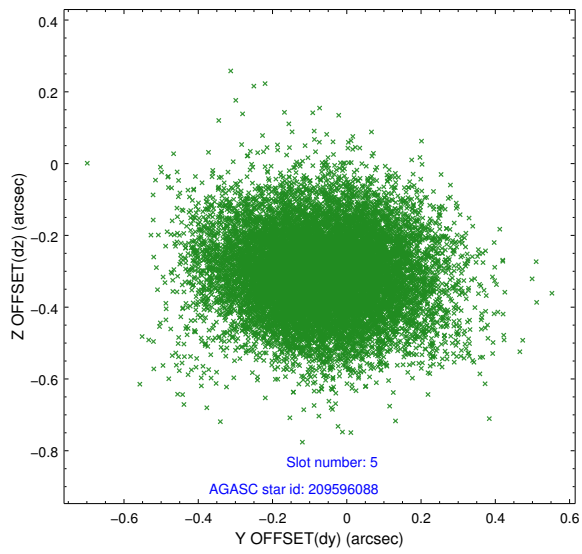
2.4.1 Slot 3



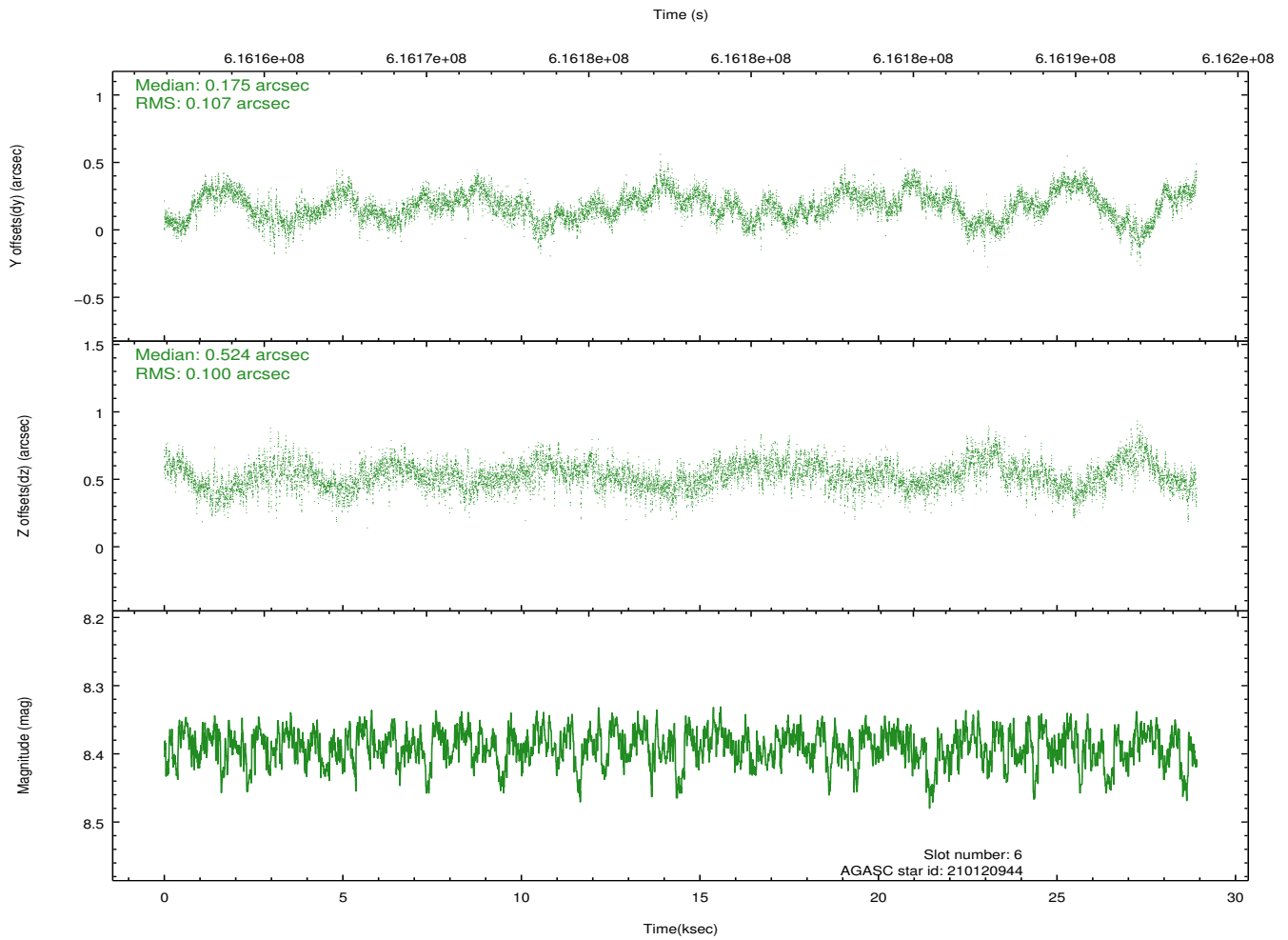
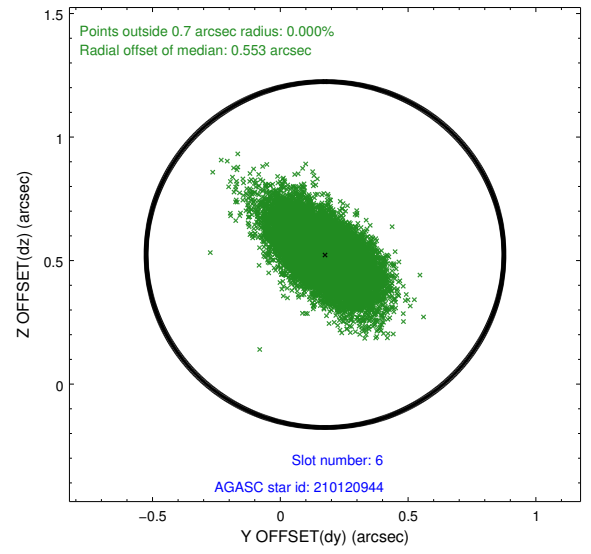
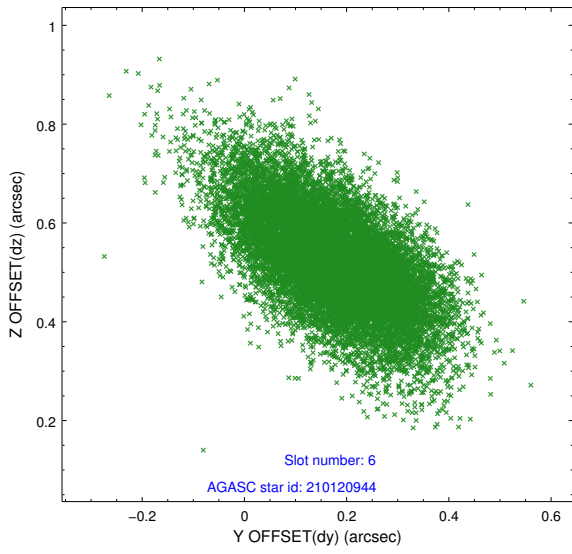
2.4.2 Slot 4



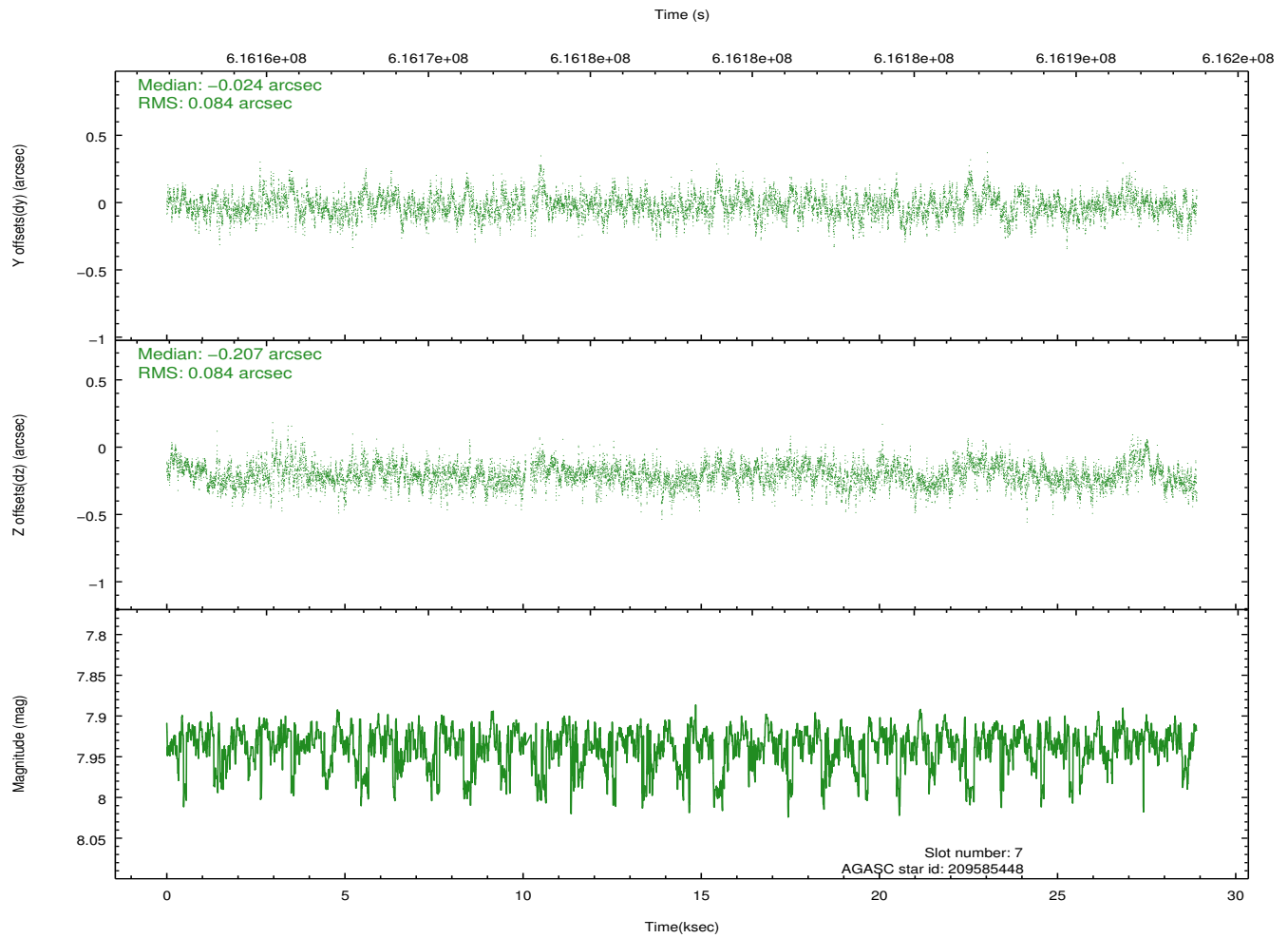
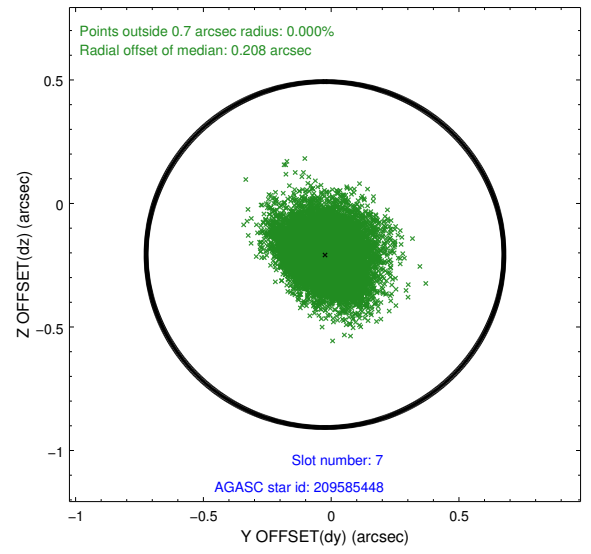
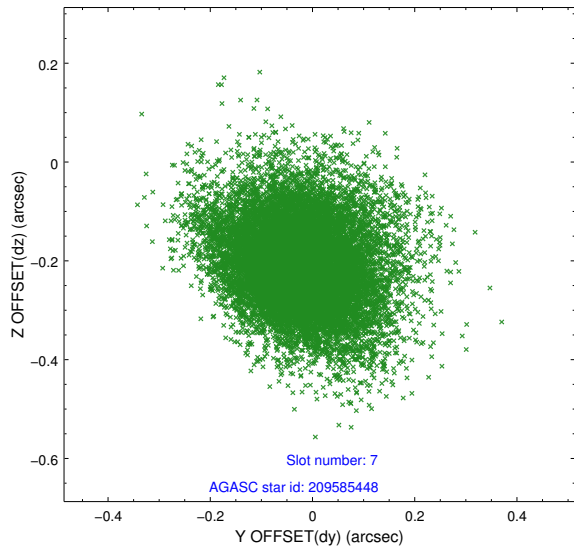
2.4.3 Slot 5



2.4.4 Slot 6

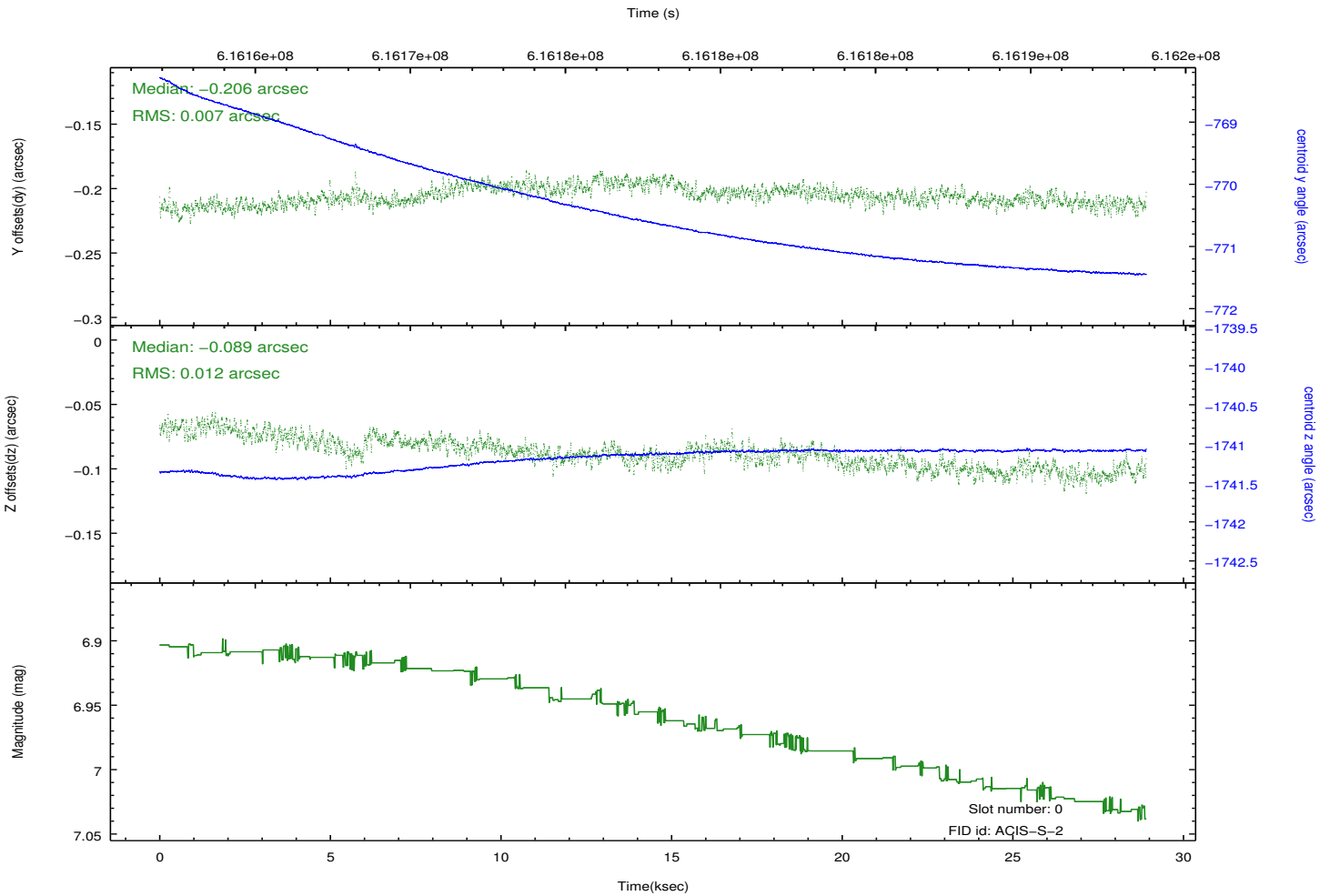
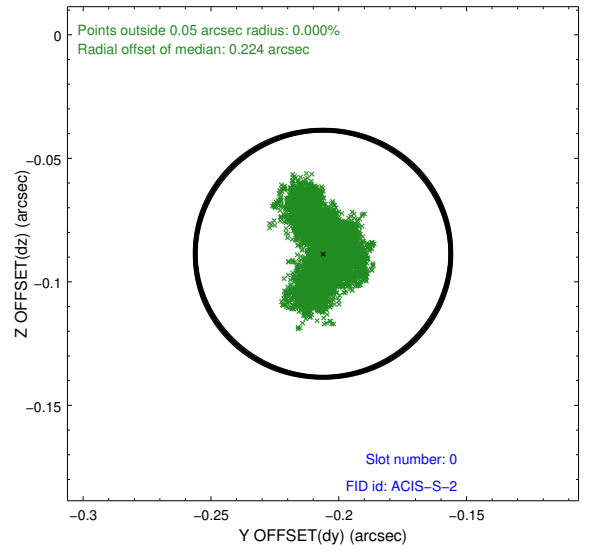
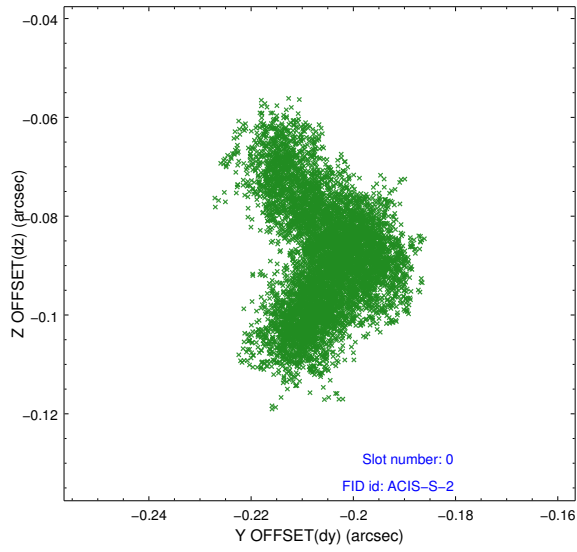


2.4.5 Slot 7

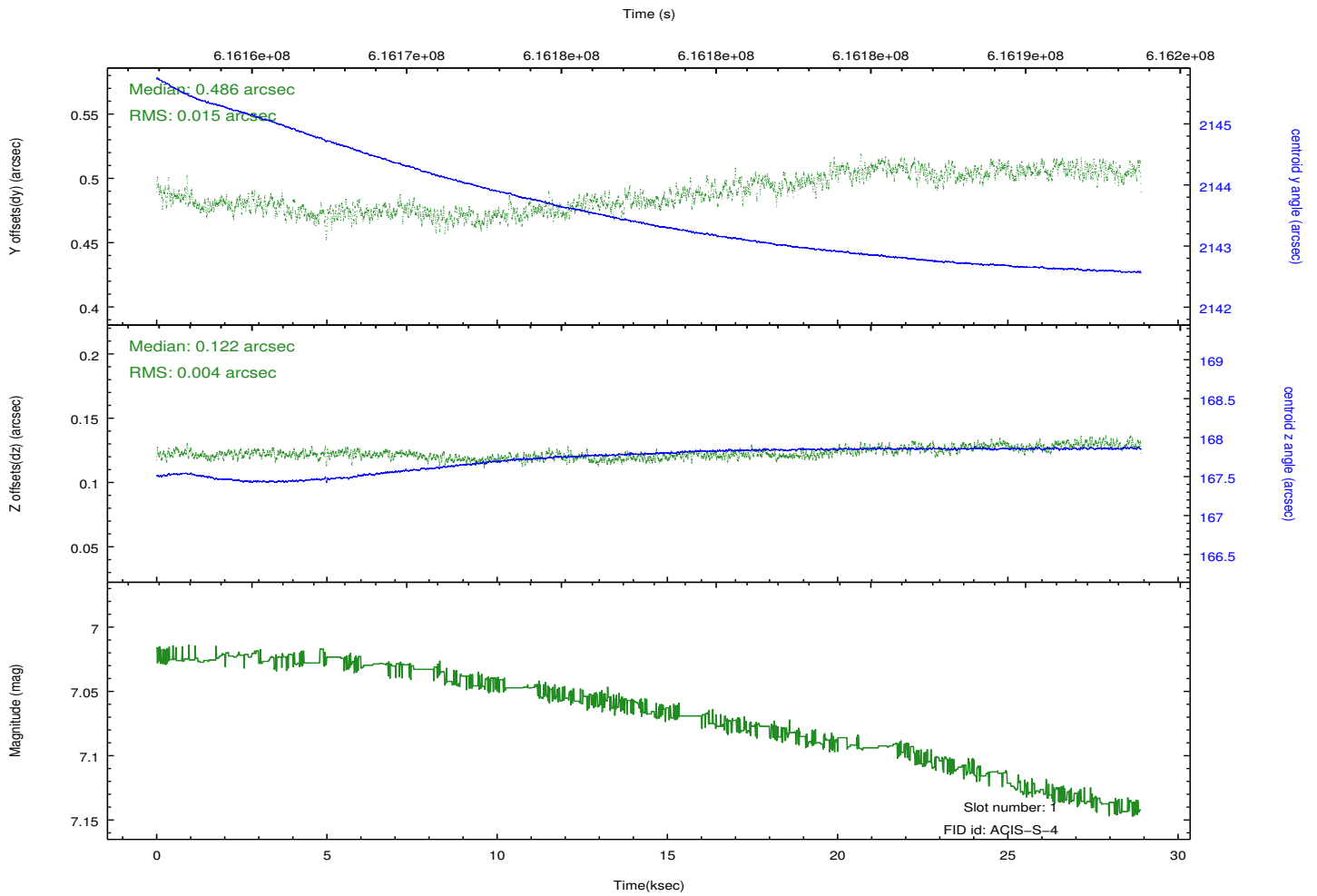
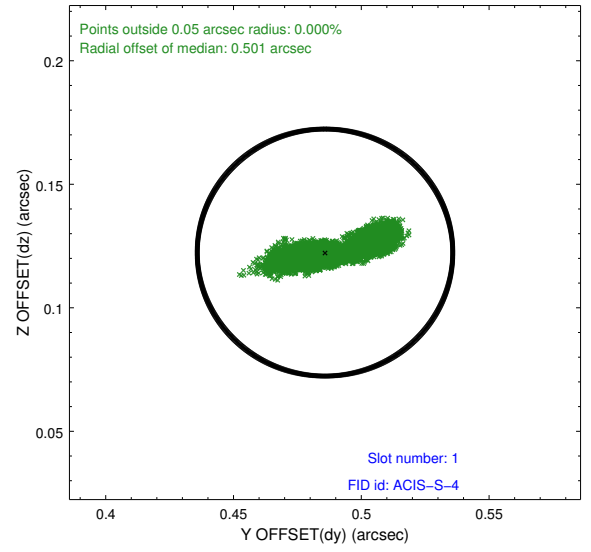
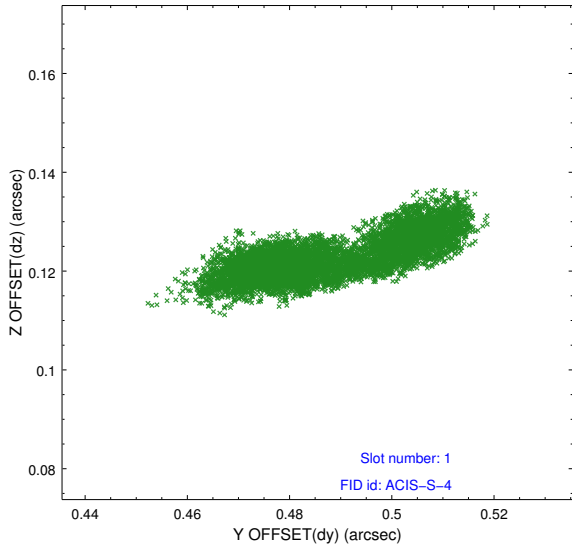


2.5 FID Slots

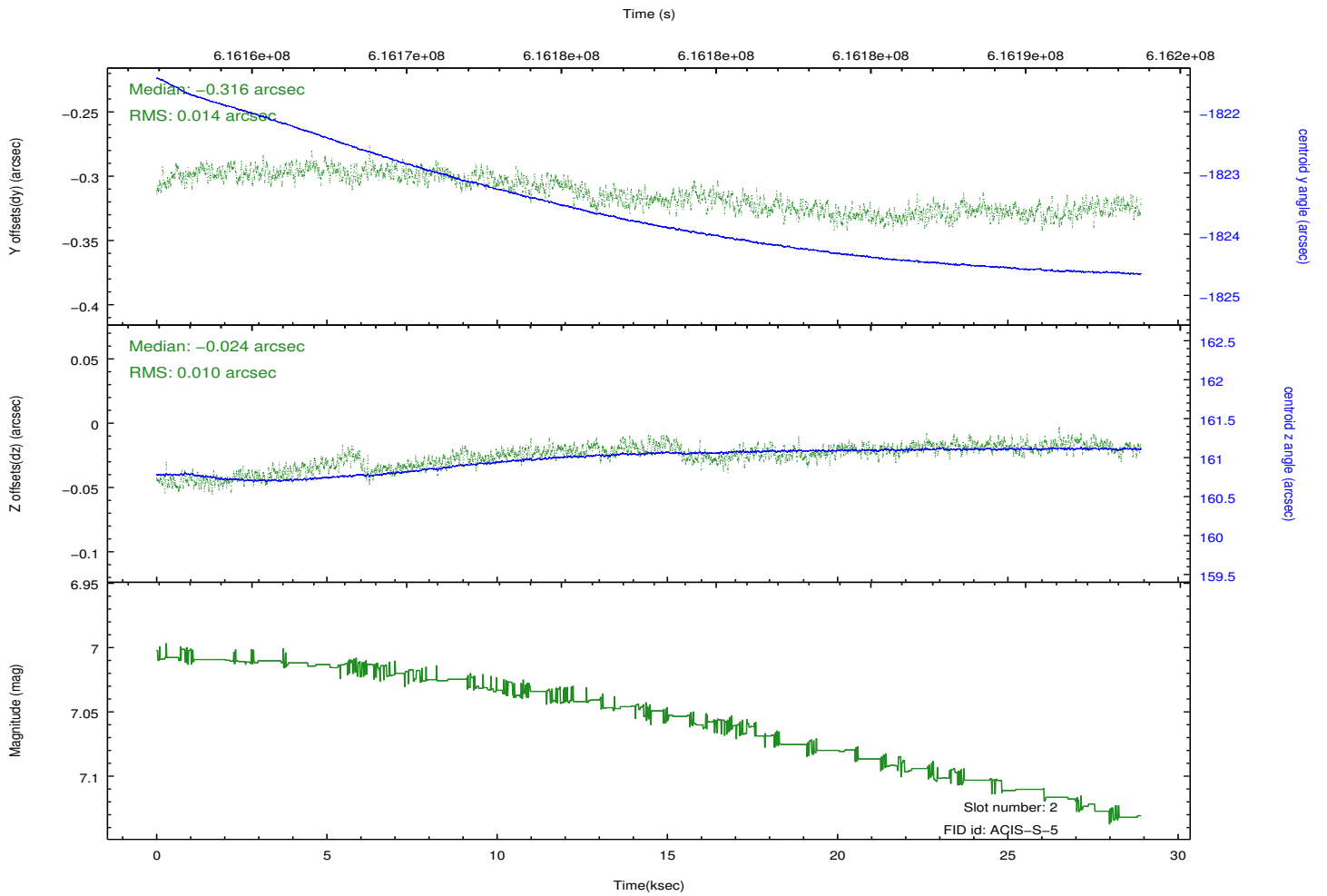
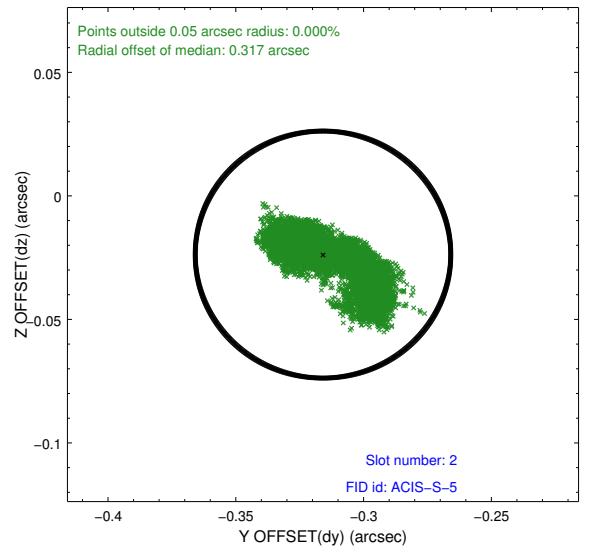
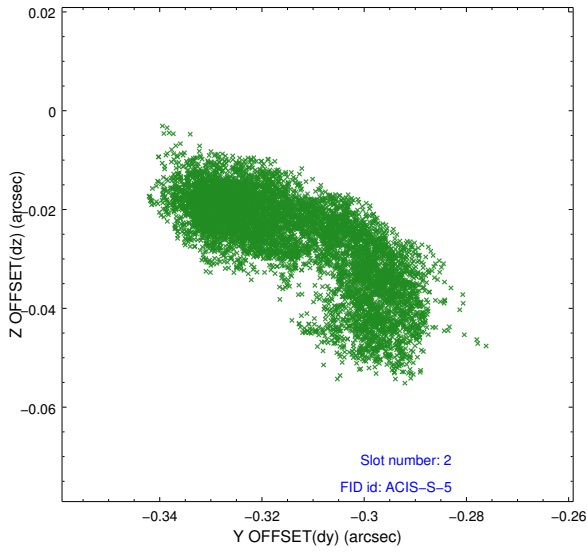
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.823800221801

A.2 Comments