

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22055 - L2 Version 1
Chandra X-Ray Center

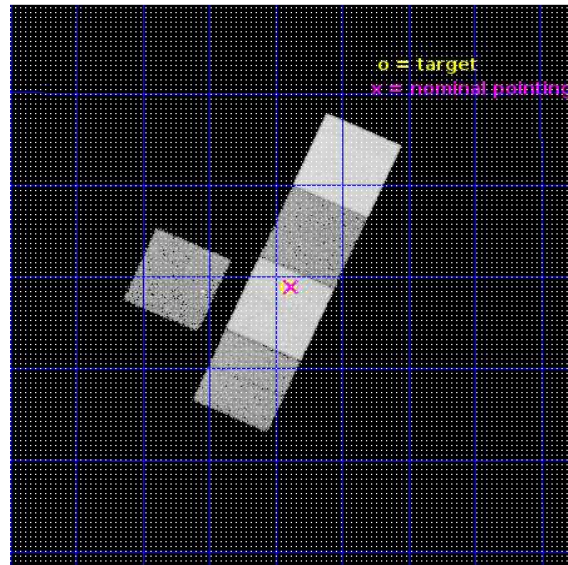
L2 Processing Date : Feb 20 2019

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1 Front

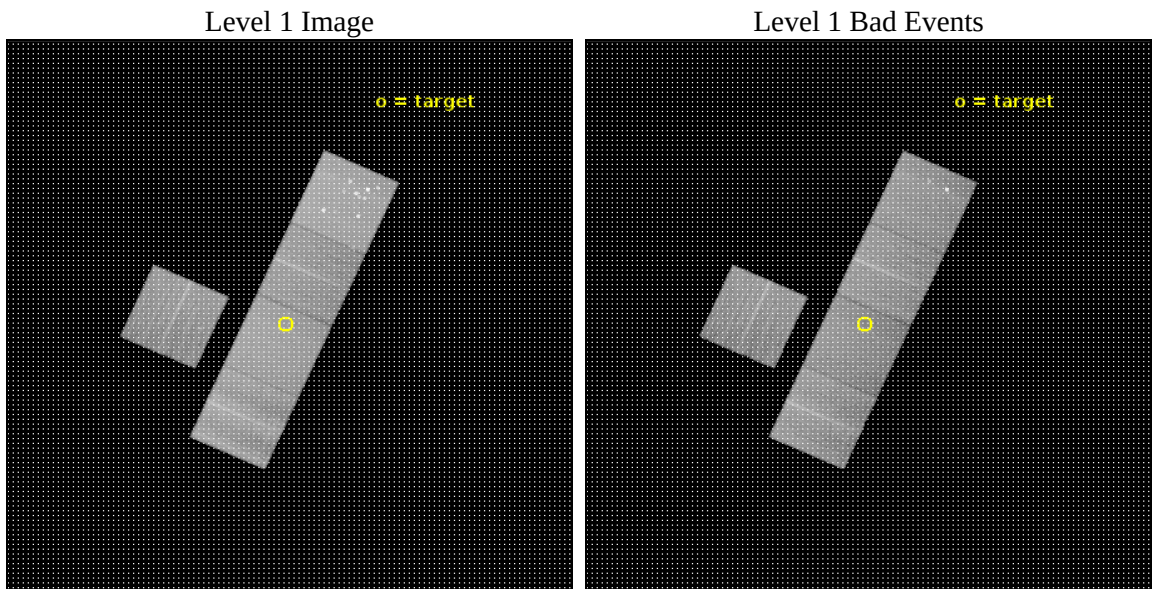
seq_num	801782	Sequence number
obs_id	22055	Observation id
title	Galaxy collisions and shocks in compact groups	Proposal title
observer	Ewan O'Sullivan	Principal investigator
object	HCG57	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	174.475	Observer's specified target RA [deg]
dec_targ	21.981389	Observer's specified target Dec [deg]
ra_nom	174.47030123152	Nominal RA [deg]
dec_nom	21.981959073008	Nominal Dec [deg]
roll_nom	114.15833059652	Nominal Roll [deg]
revision	1	Processing version of data
ontime	23708.800182462	Sum of GTIs [s]
livetime	23399.027253913	Livetime [s]
ontime3	23705.659092188	Sum of GTIs [s]
ontime5	23708.800182462	Sum of GTIs [s]
ontime6	23705.659081697	Sum of GTIs [s]
ontime7	23708.800182462	Sum of GTIs [s]
ontime8	23702.518231988	Sum of GTIs [s]
l2events	294478	Number of level 2 events



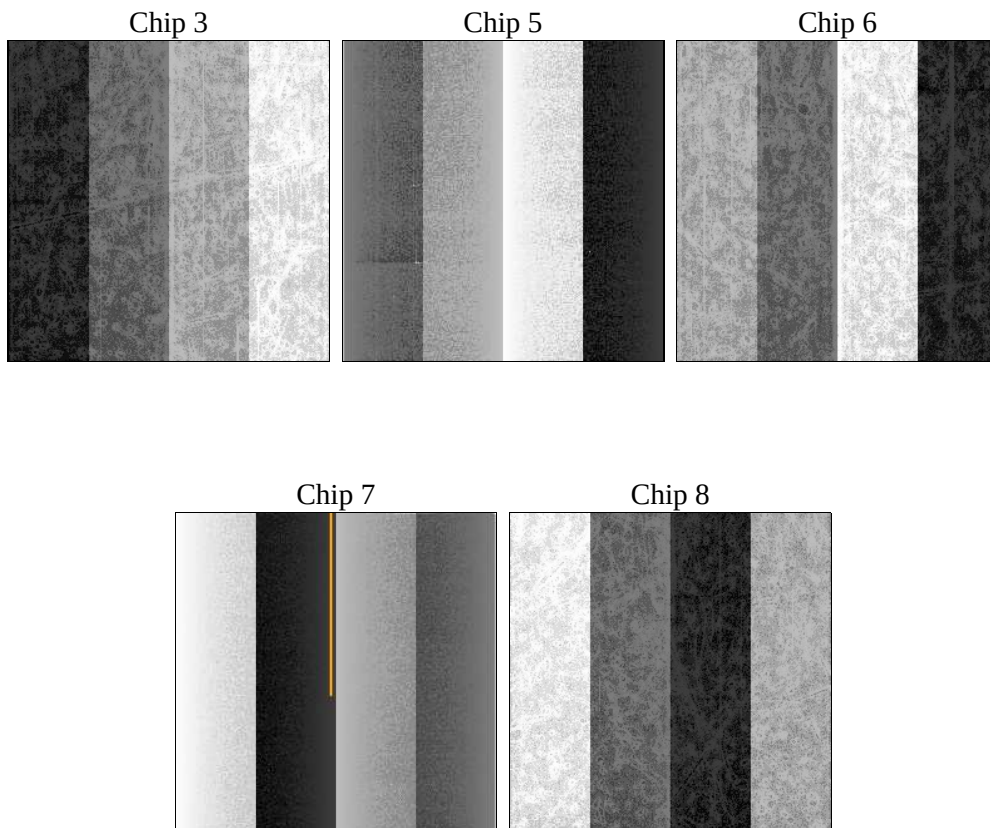
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23661.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	23708.800182462	Sum of GTIs [s]
caldsver	4.8.2	 	ontime3	23705.659092188	Sum of GTIs [s]
date	2019-02-20T05:54:09	Date and time of file creation	ontime5	23708.800182462	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	23705.659081697	Sum of GTIs [s]
			ontime7	23708.800182462	Sum of GTIs [s]
			ontime8	23702.518231988	Sum of GTIs [s]
			l1events	1175111	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	174081	327887	193329	238873	240941
rejected events	154594	161740	172279	134333	174418
rejected %	88%	49%	89%	56%	72%

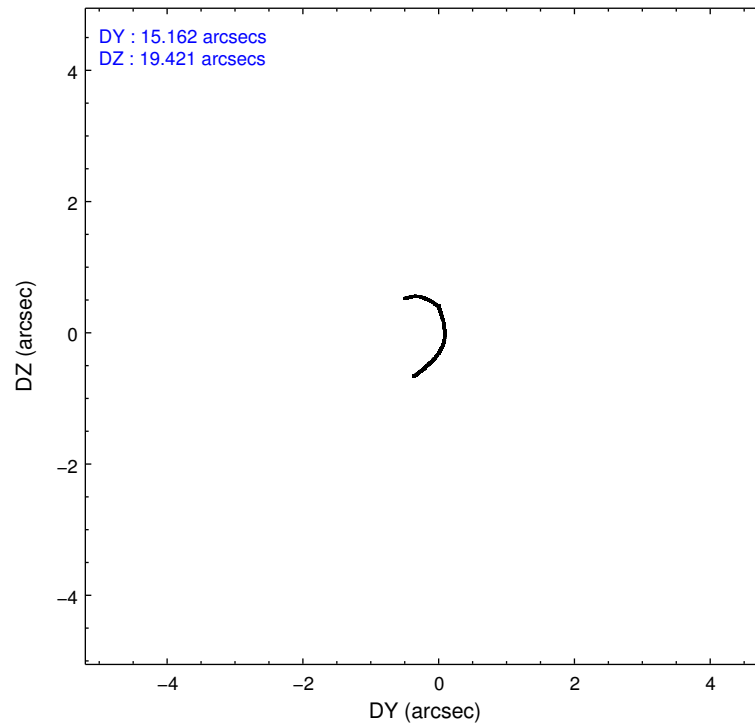
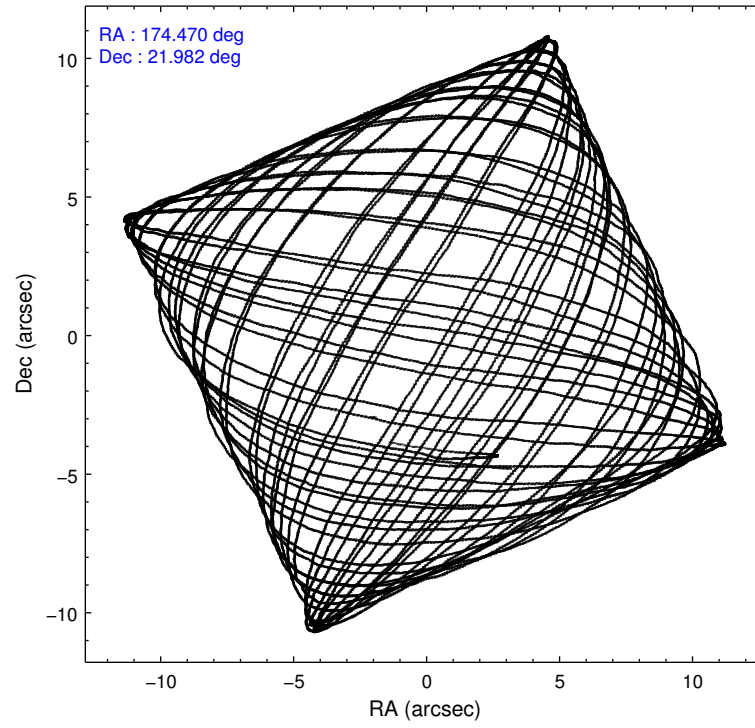
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7152	30593	6918	8946	18525
	4%	9%	3%	3%	7%
grade 1 events	102	791	85	373	188
	0%	0%	0%	0%	0%
grade 2 events	4205	48476	5018	22402	16168
	2%	14%	2%	9%	6%
grade 3 events	2030	4819	2037	8231	6899
	1%	1%	1%	3%	2%
grade 4 events	1990	4159	1998	8263	6515
	1%	1%	1%	3%	2%
grade 5 events	8691	20451	8562	23745	12879
	4%	6%	4%	9%	5%
grade 6 events	4115	78154	5088	56710	18425
	2%	23%	2%	23%	7%
grade 7 events	145796	140444	163623	110203	161342
	83%	42%	84%	46%	66%

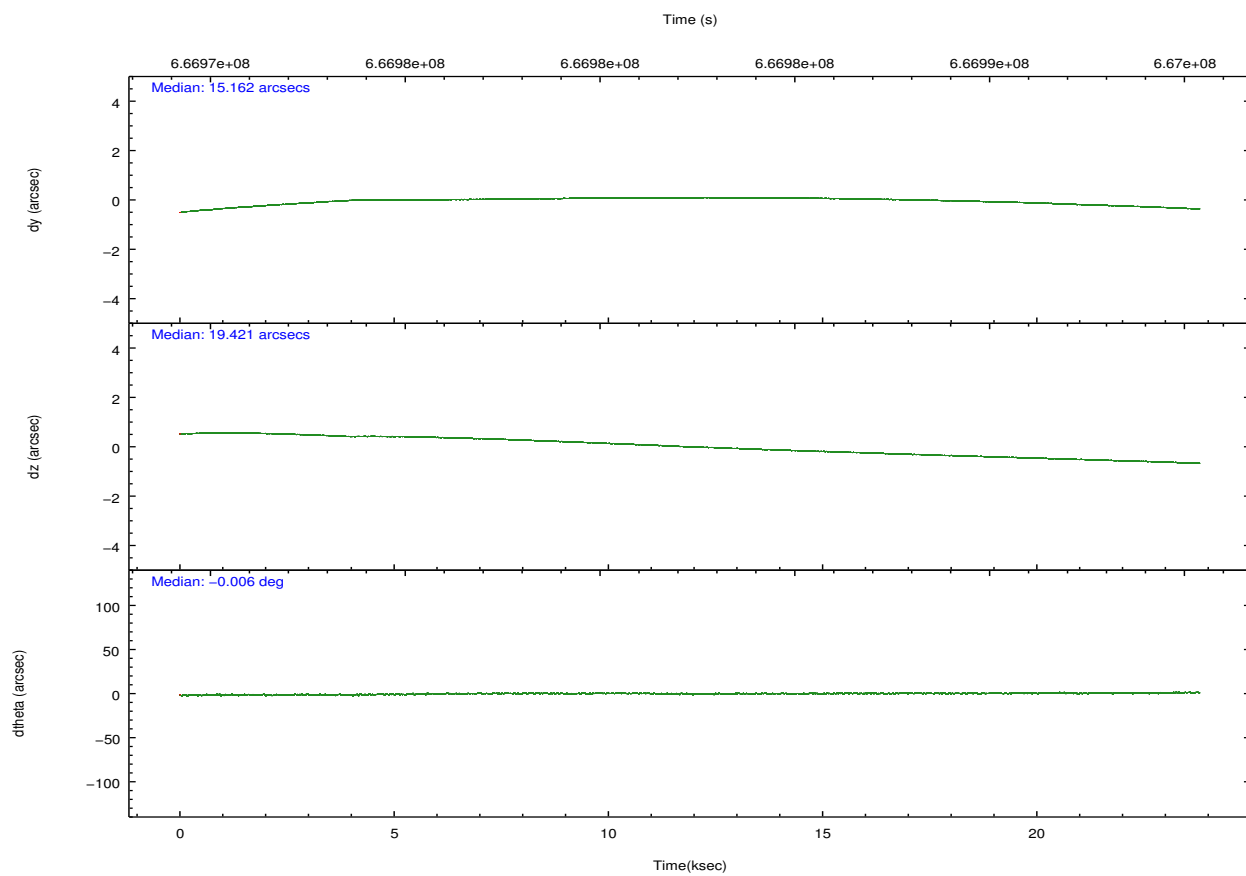
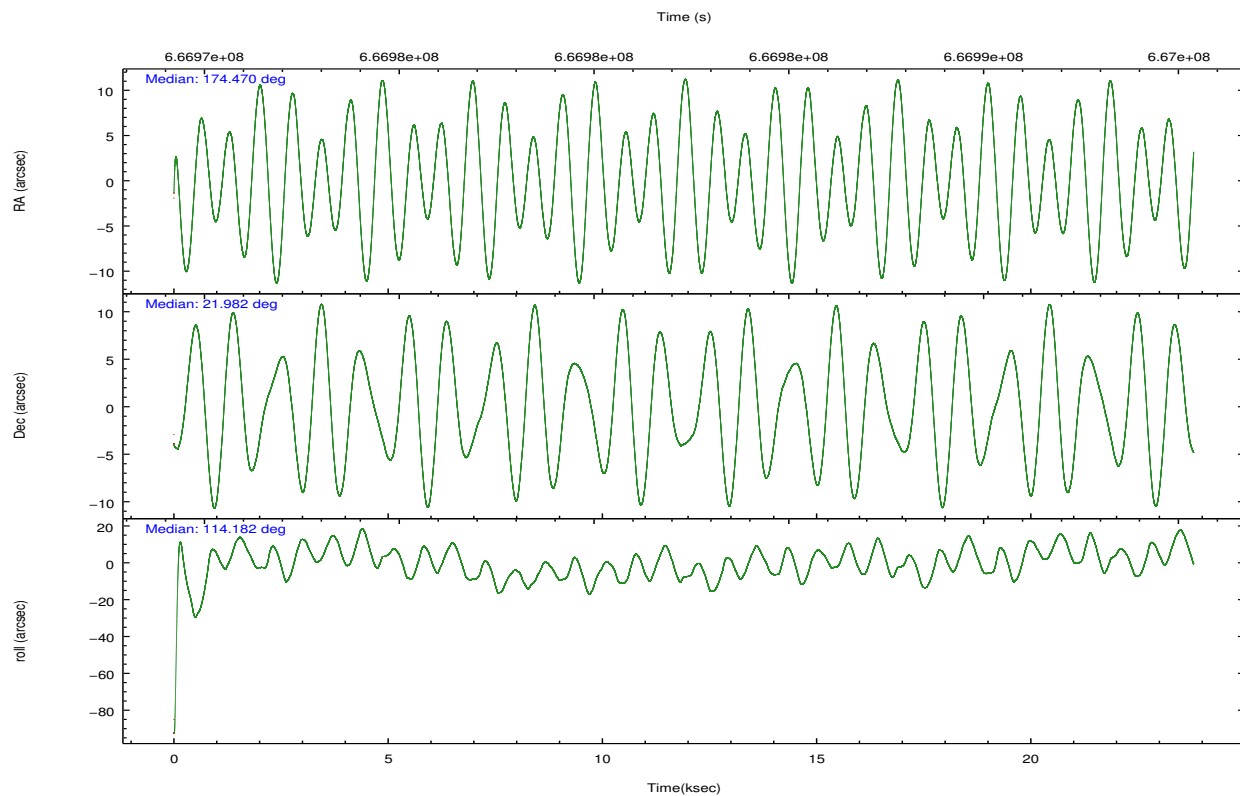
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-35678	ACIS-35678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	174.494544	174.4703012315239
[deg] Pointing Dec	21.966175	21.98195907300794
[deg] Pointing Roll	113.992691	114.1583305965224
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	666970527.184000	666969200.7428401
Observation start date	2019-02-19T13:34:18	2019-02-19T13:13:20
[s] Observation end time (MET)	666994188.184000	666995189.61941
Observation end date	2019-02-19T20:08:39	2019-02-19T20:26:29
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	N
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



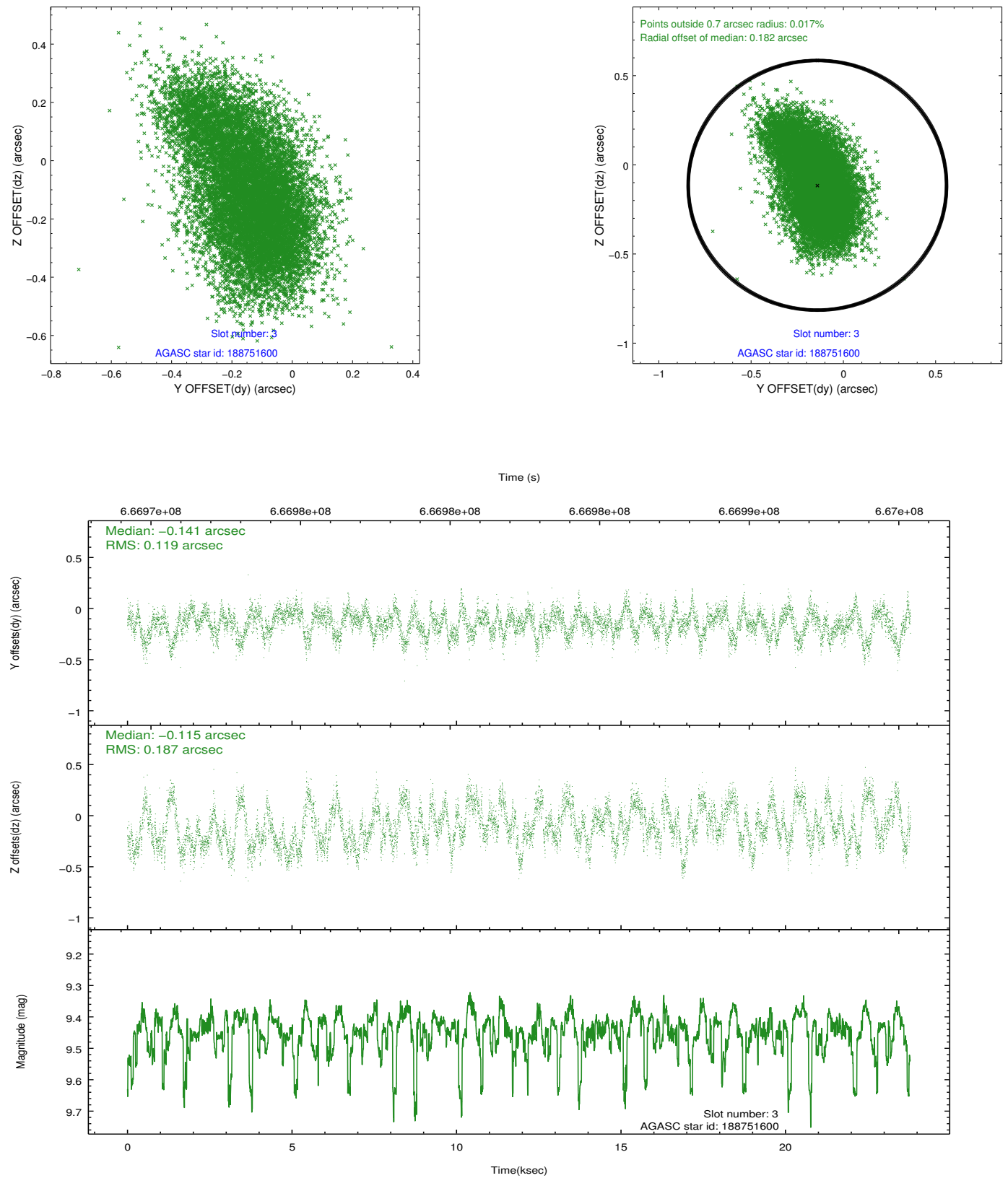


Slot Statistics

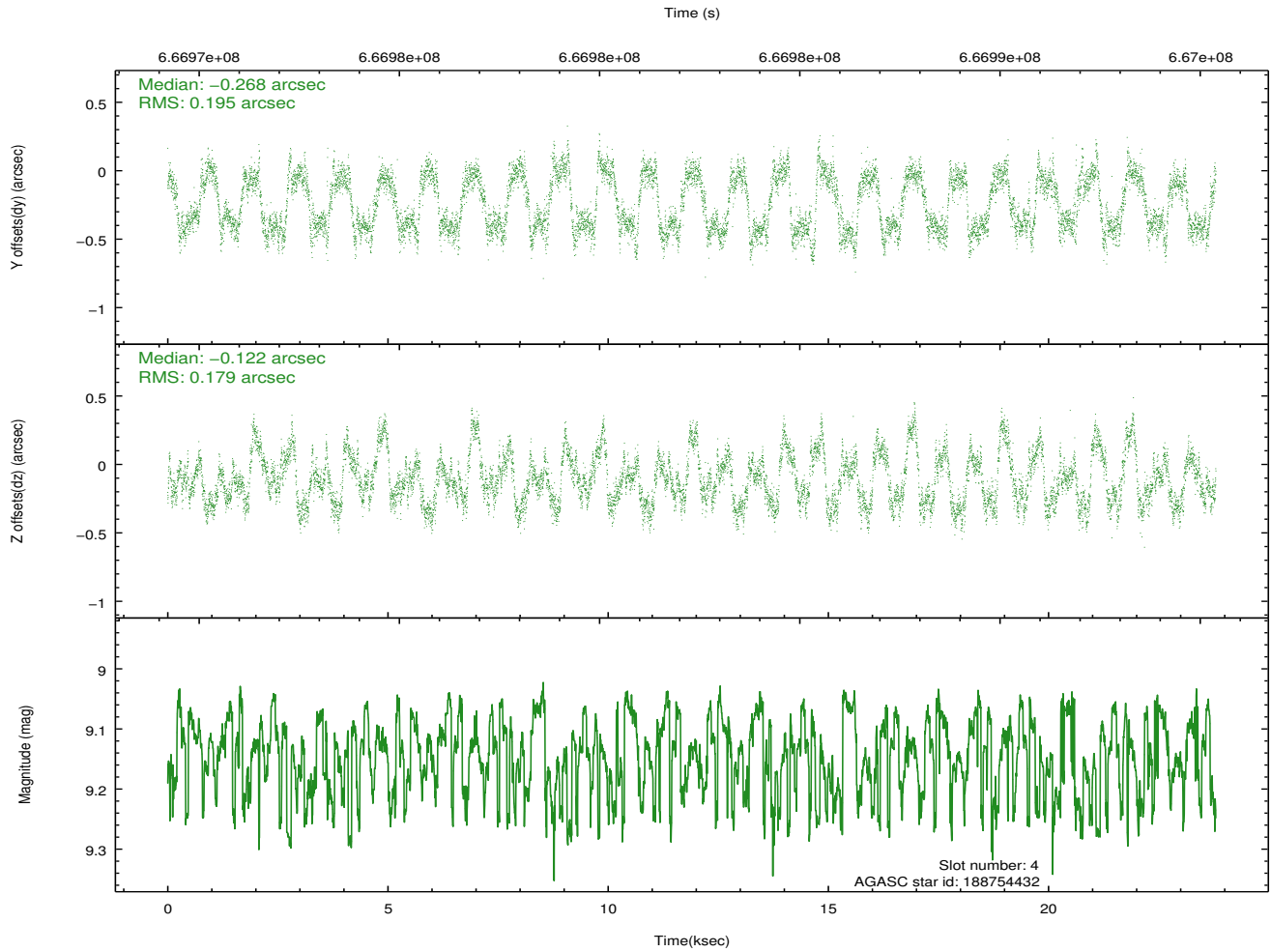
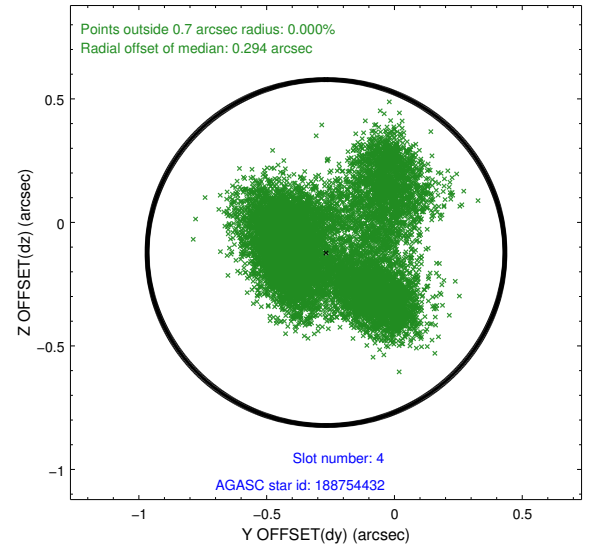
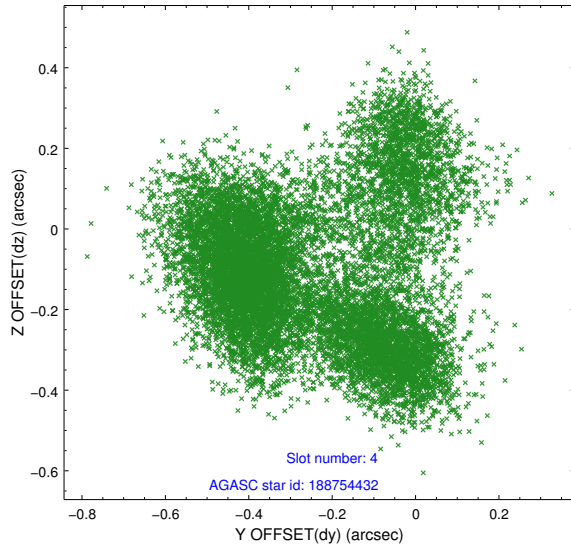
id	status	used	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		6.98	5806	1.000	-0.346	-0.187	0.014	0.025	0.000000	0.000000	-768.35	-1741
1	FID		7.09	5806	1.000	0.795	0.217	0.008	0.015	0.000000	0.000000	2145.93	167
2	FID		7.05	5806	1.000	-0.480	-0.021	0.013	0.021	0.000000	0.000000	-1821.23	161
3	GUIDE	used	9.44	11597	1.000	-0.141	-0.115	0.236	0.386	174.166921	21.601986	-750.87	1535
4	GUIDE	used	9.14	11590	1.000	-0.268	-0.122	0.284	0.443	174.164183	22.388902	1838.43	384
5	GUIDE	used	8.37	11606	1.000	0.199	-0.078	0.190	0.297	174.474570	21.745106	-699.16	384
6	GUIDE	used	7.75	11601	1.000	0.050	0.277	0.202	0.295	174.548855	21.871657	-384.45	-26
7	GUIDE	used	9.11	11595	1.000	0.122	-0.024	0.125	0.206	174.426696	21.691710	-810.00	609

2.4 Star Slots

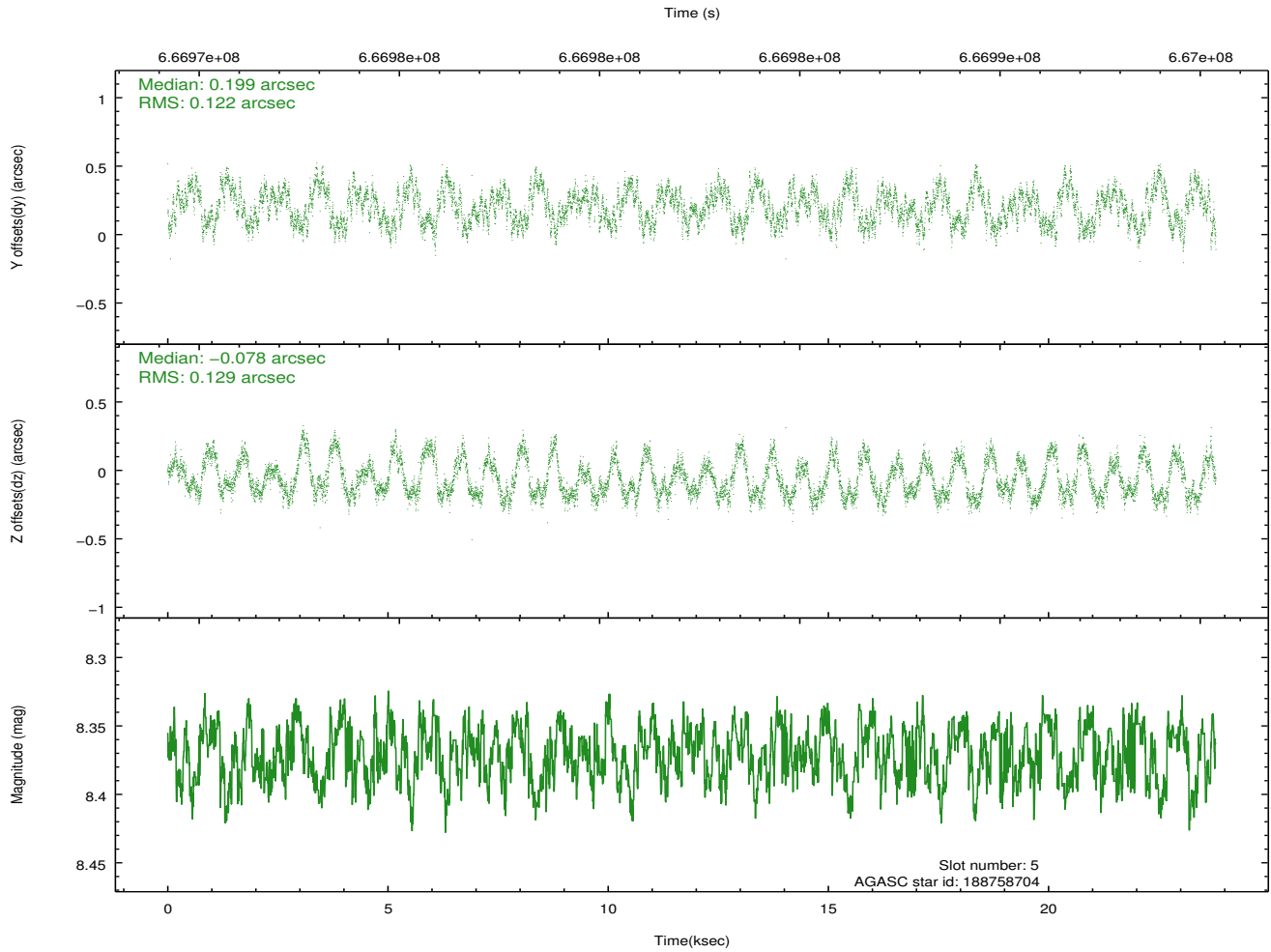
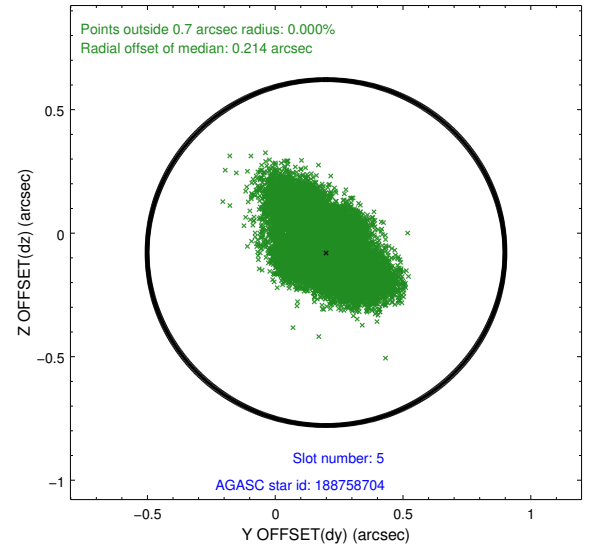
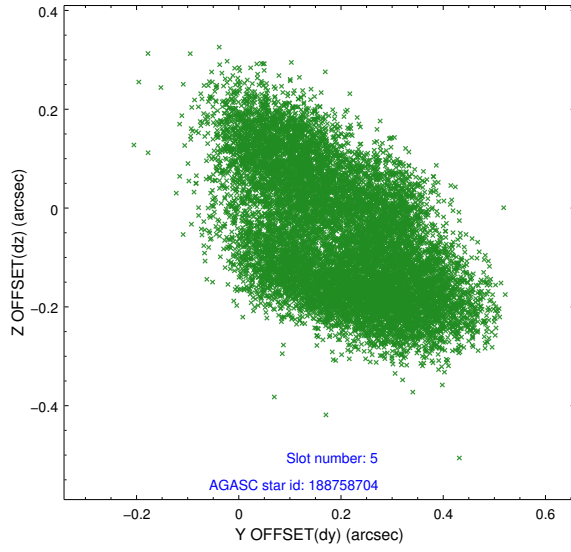
2.4.1 Slot 3



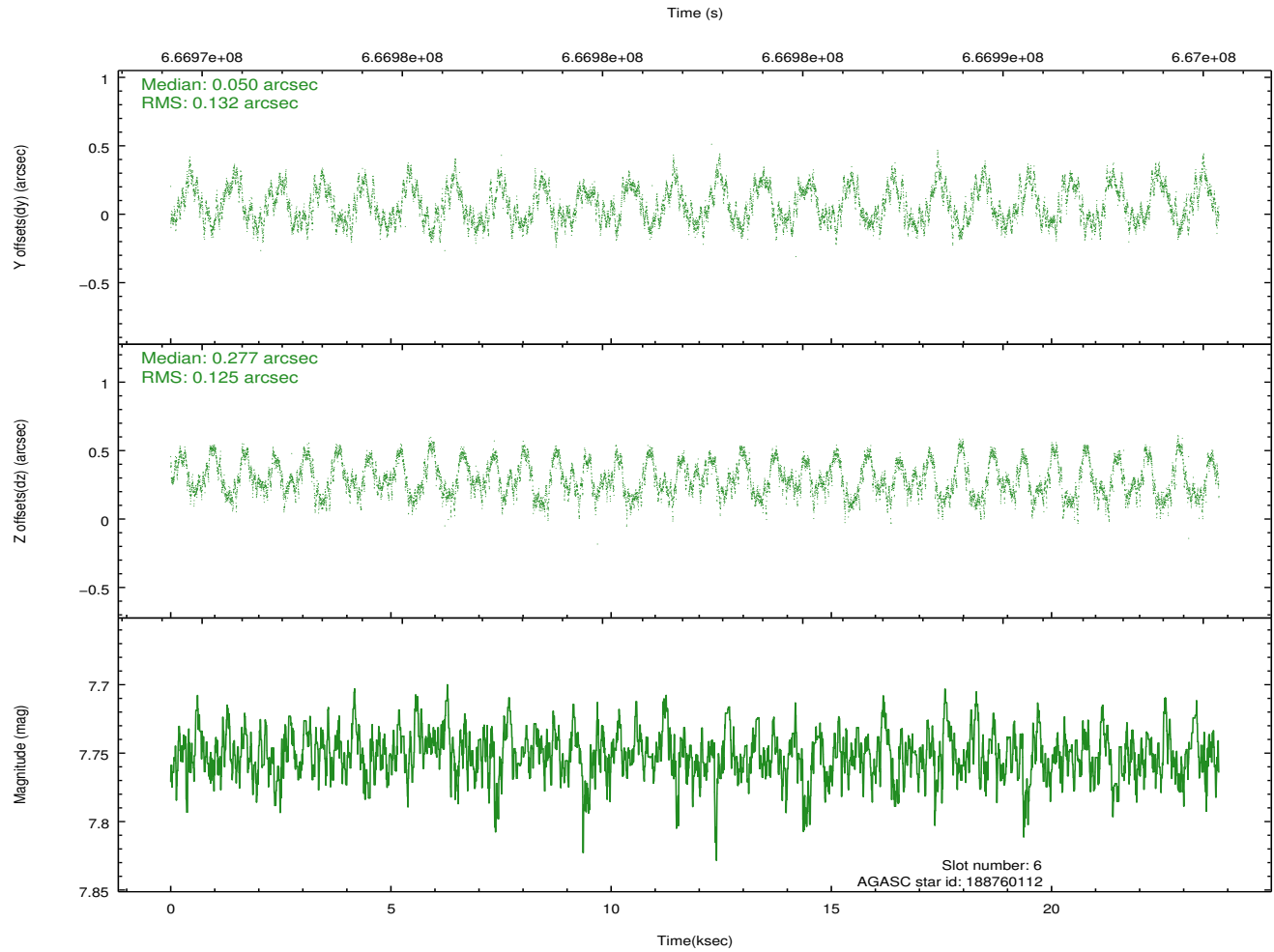
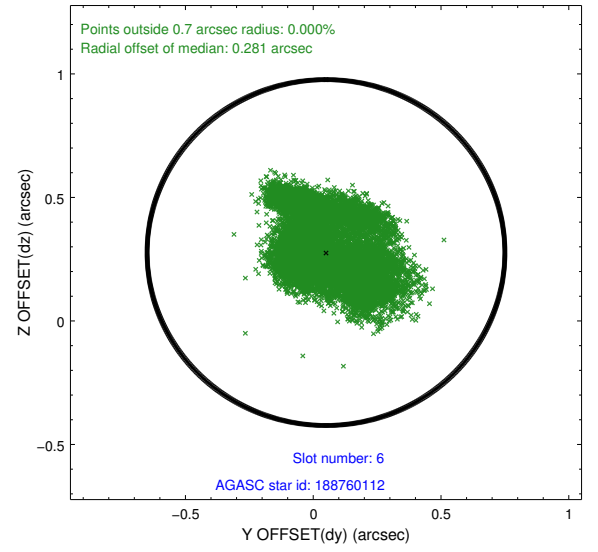
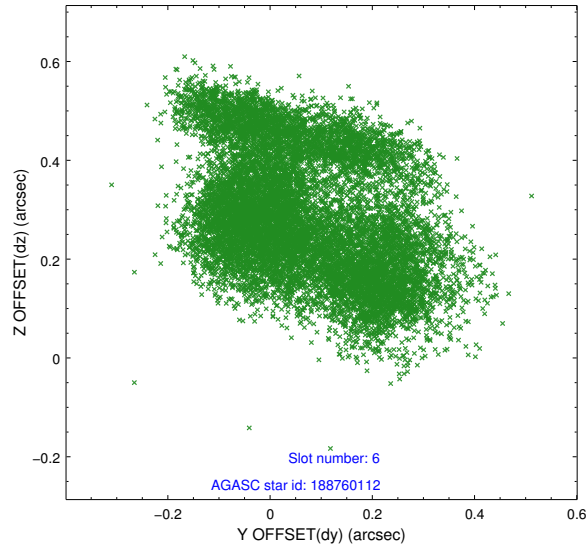
2.4.2 Slot 4



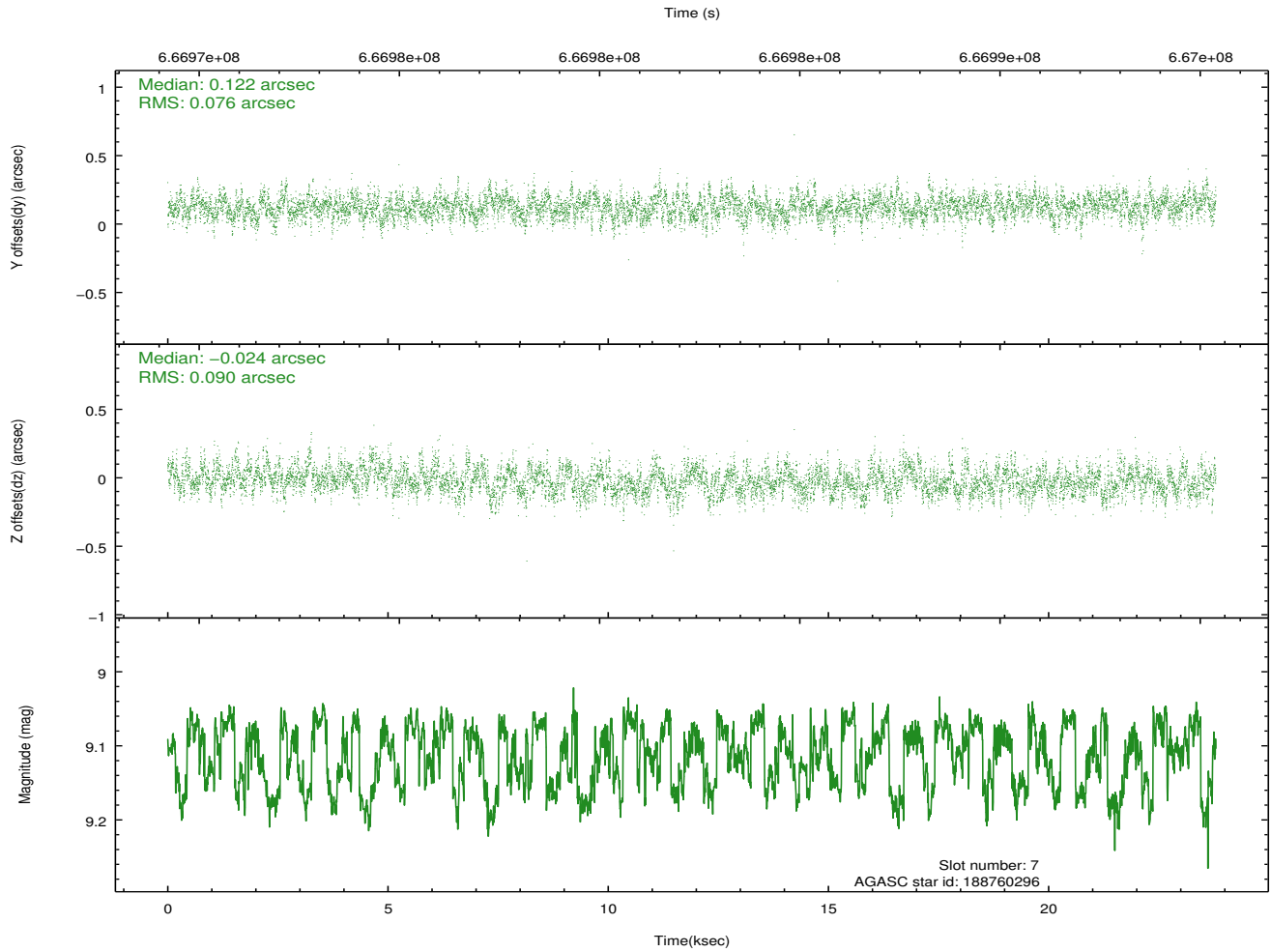
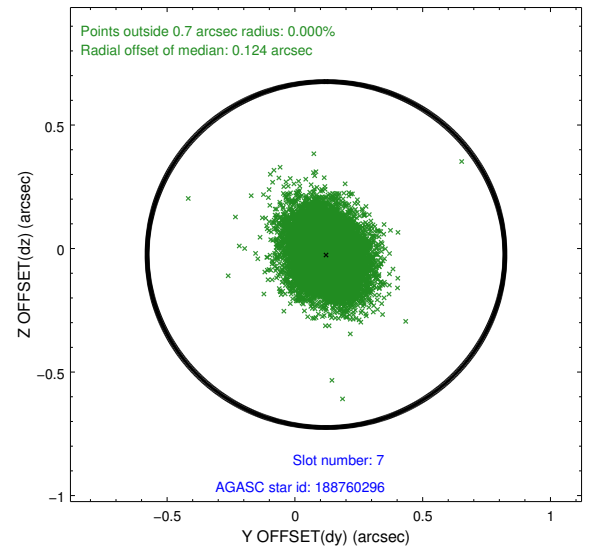
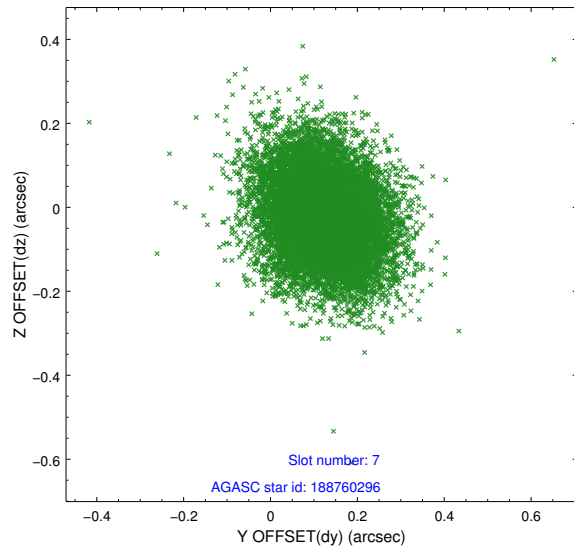
2.4.3 Slot 5



2.4.4 Slot 6

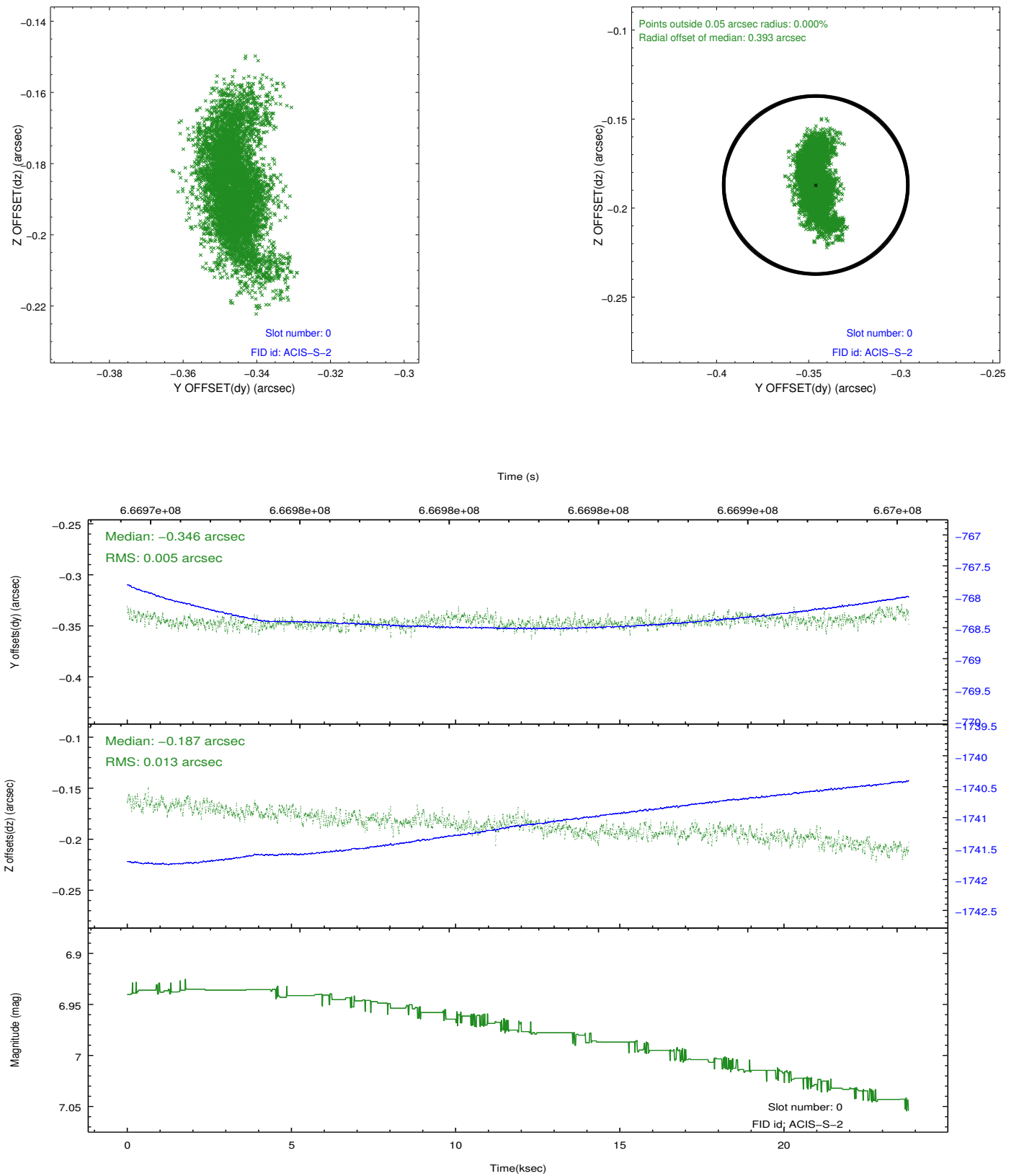


2.4.5 Slot 7

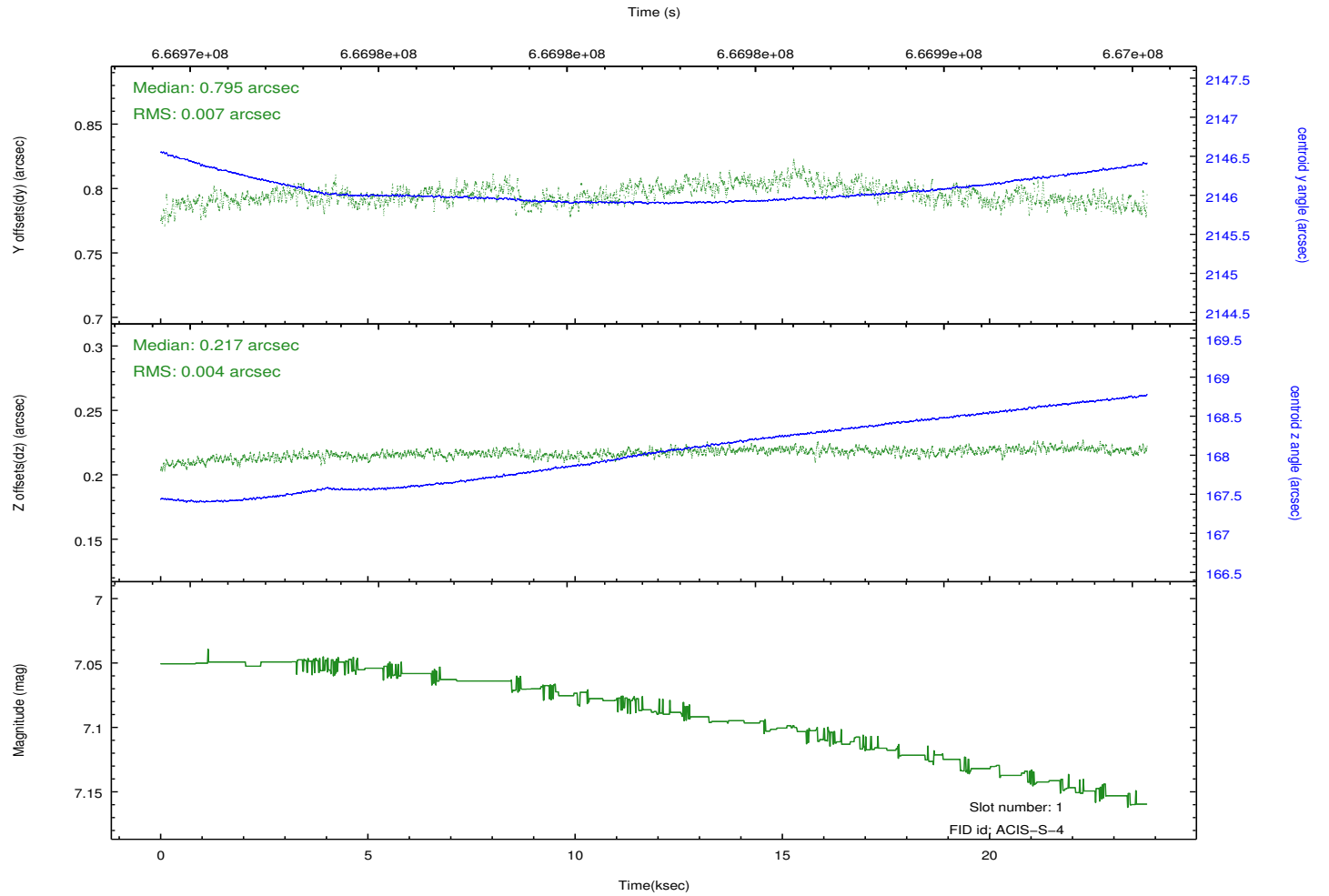
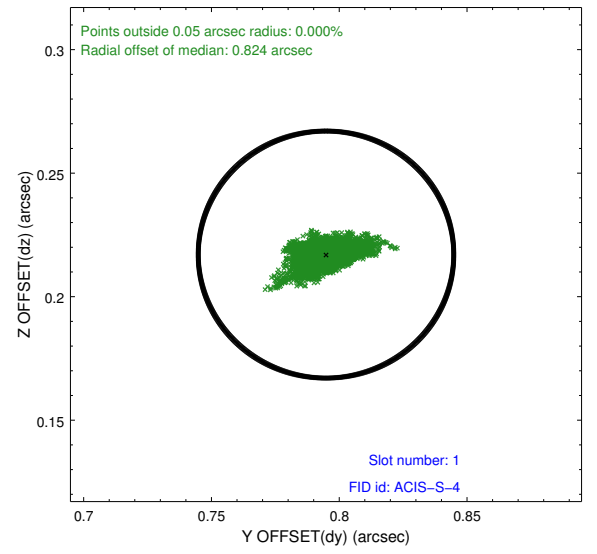
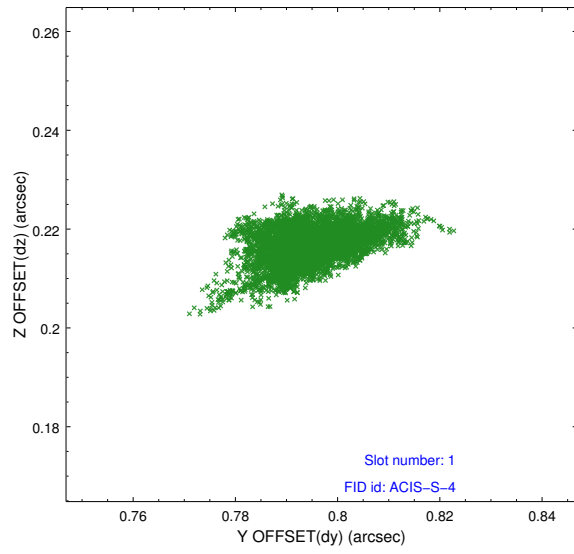


2.5 FID Slots

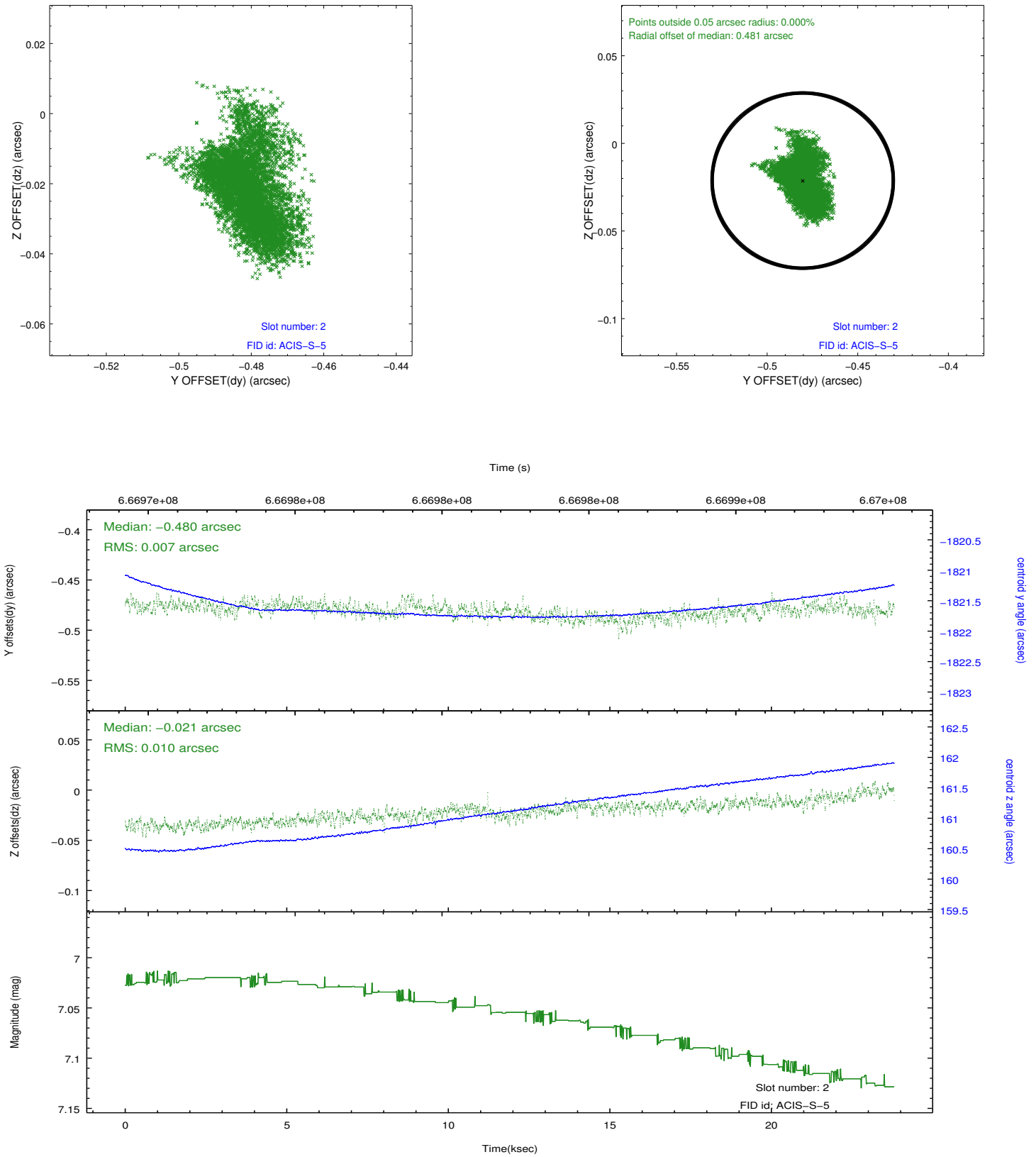
2.5.1 Slot 0



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)	2019.02.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.708800182462

A.2 Comments