

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19594 - L2 Version 1
Chandra X-Ray Center

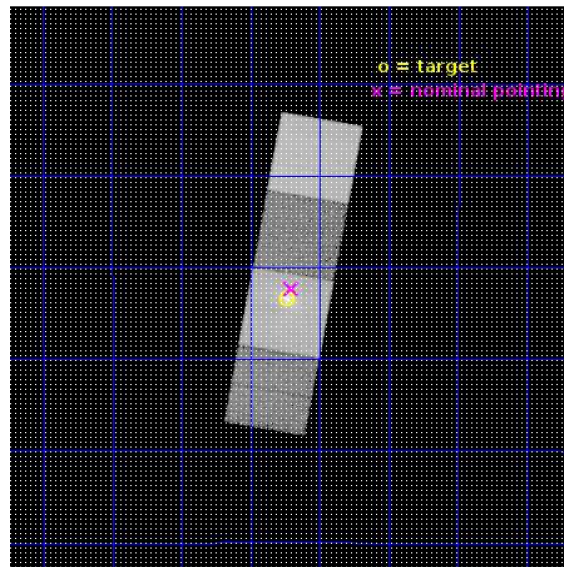
L2 Processing Date : Aug 1 2017

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1 Front

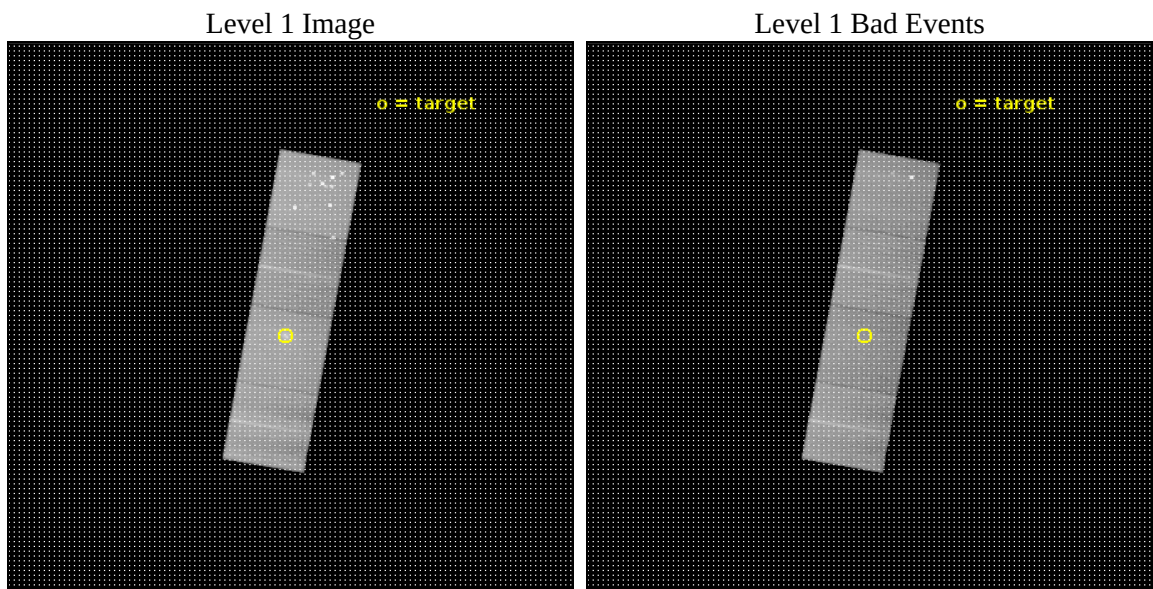
seq_num	801683	Sequence number
obs_id	19594	Observation id
title	The link between optical lines and X-ray sloshing in two unusual clusters	Proposal title
observer	Alastair Edge	Principal investigator
object	Abell 2533	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	346.80875	Observer's specified target RA [deg]
dec_targ	-15.224194	Observer's specified target Dec [deg]
ra_nom	346.80107887808	Nominal RA [deg]
dec_nom	-15.2053464301	Nominal Dec [deg]
roll_nom	100.14379269386	Nominal Roll [deg]
revision	1	Processing version of data
ontime	37063.017177343	Sum of GTIs [s]
livetime	36578.761572525	Livetime [s]
ontime5	37062.9761374	Sum of GTIs [s]
ontime6	37059.794046998	Sum of GTIs [s]
ontime7	37063.017177343	Sum of GTIs [s]
ontime8	37062.894057393	Sum of GTIs [s]
l2events	401021	Number of level 2 events



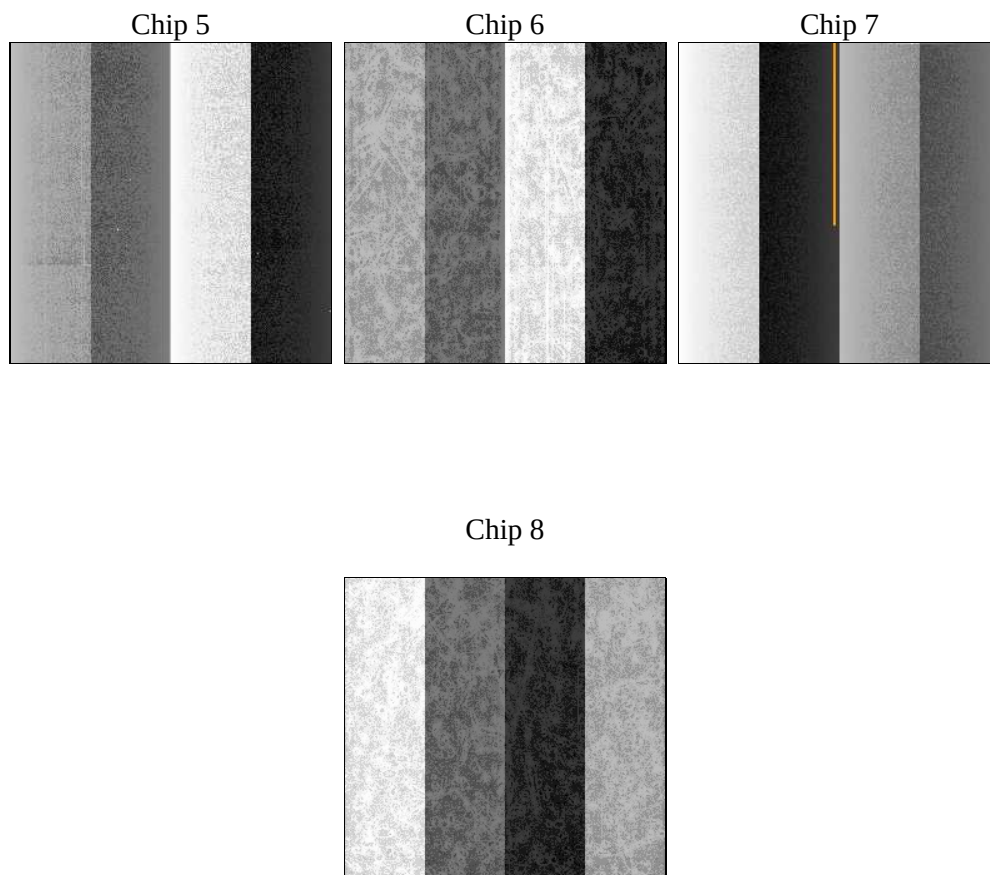
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	37063.017177343	Sum of GTIs [s]
caldsver	4.7.5	 	ontime5	37062.9761374	Sum of GTIs [s]
date	2017-08-01T06:40:23	Date and time of file creation	ontime6	37059.794046998	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	37063.017177343	Sum of GTIs [s]
			ontime8	37062.894057393	Sum of GTIs [s]
			l1events	1420416	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	470629	262269	353744	333774
rejected events	222601	232221	186313	245992
rejected %	47%	88%	52%	73%

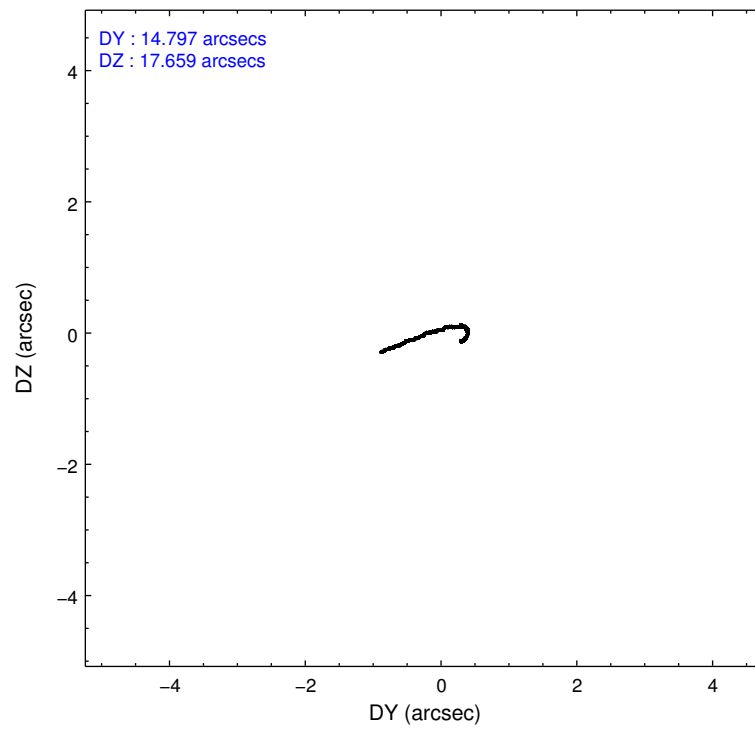
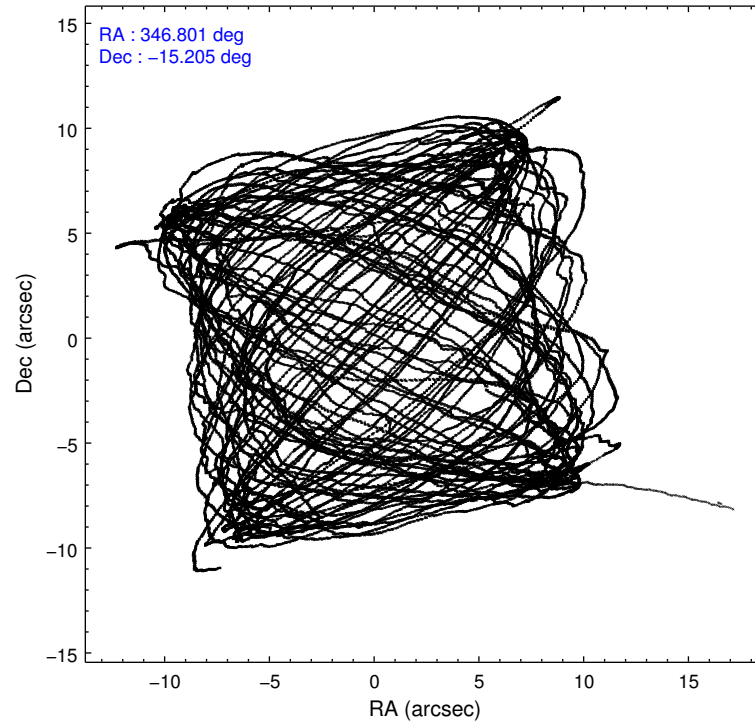
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	56935	10390	19510	24486
	12%	3%	5%	7%
grade 1 events	1050	125	441	242
	0%	0%	0%	0%
grade 2 events	69180	7023	36391	21319
	14%	2%	10%	6%
grade 3 events	7814	2794	14313	9310
	1%	1%	4%	2%
grade 4 events	6184	2734	14086	8706
	1%	1%	3%	2%
grade 5 events	27181	11550	32273	17946
	5%	4%	9%	5%
grade 6 events	107943	7108	83143	23965
	22%	2%	23%	7%
grade 7 events	194342	220545	153587	227800
	41%	84%	43%	68%

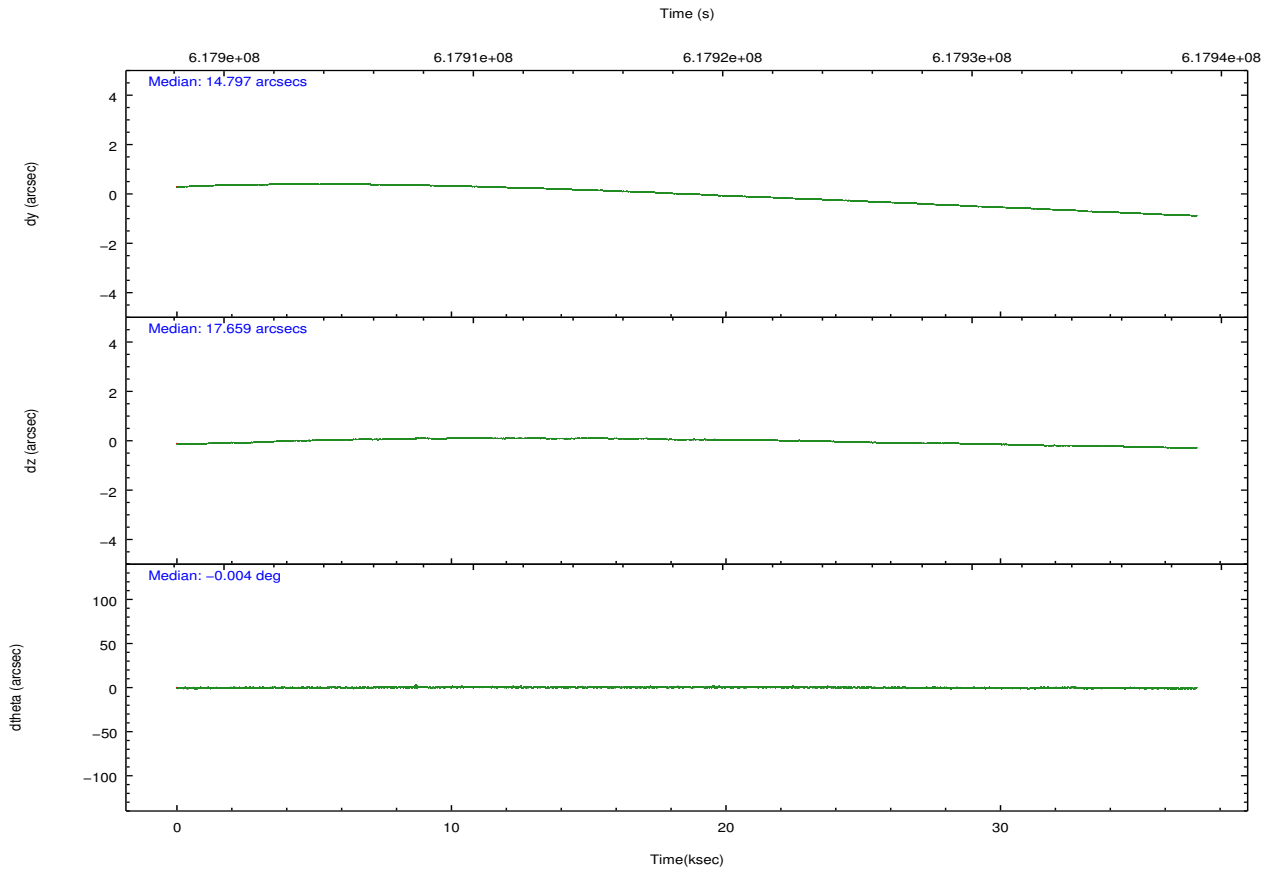
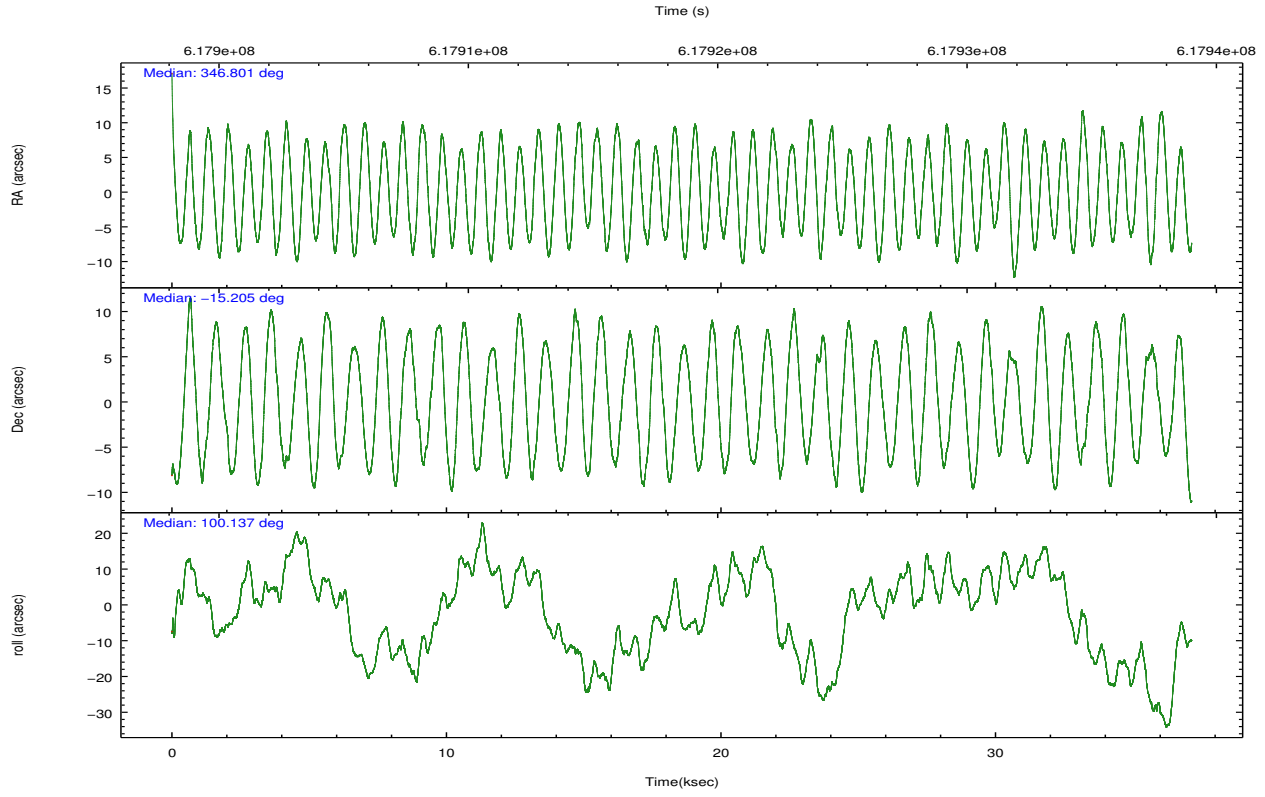
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	346.819708	346.8010788780766
[deg] Pointing Dec	-15.226082	-15.20534643010047
[deg] Pointing Roll	99.992060	100.1437926938573
[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)	617900133.184000	617898868.97549
Observation start date	2017-07-31T14:54:24	2017-07-31T14:34:28
[s] Observation end time (MET)	617937133.184000	617938583.1153001
Observation end date	2017-08-01T01:11:04	2017-08-01T01:36:23
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	N
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	2	2
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



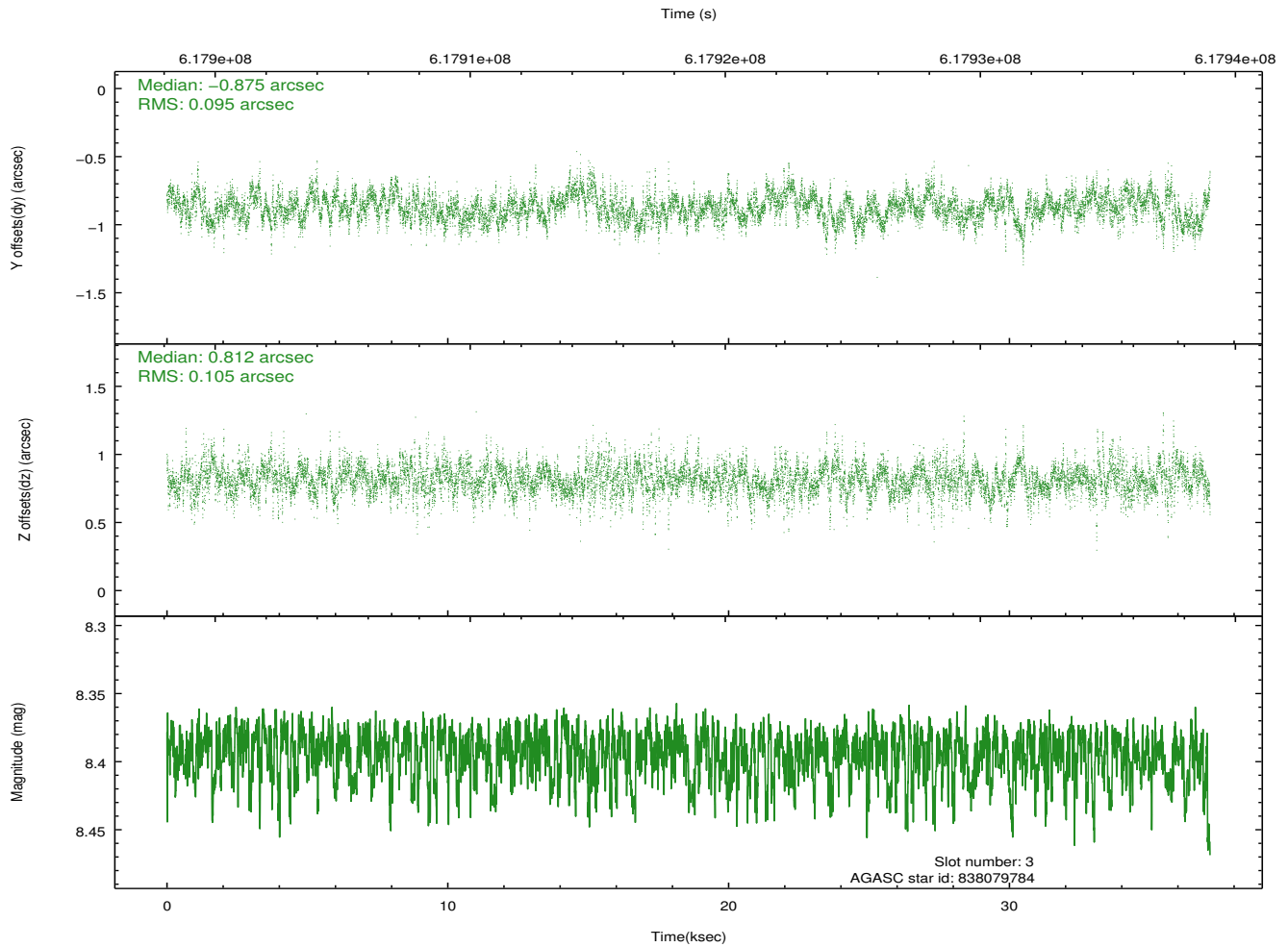
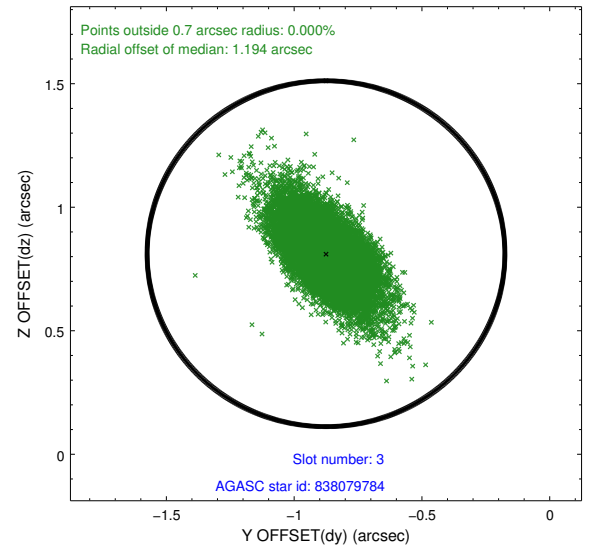
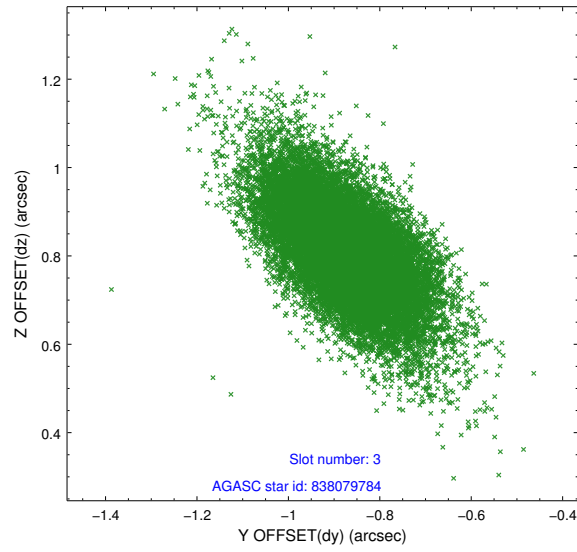


Slot Statistics

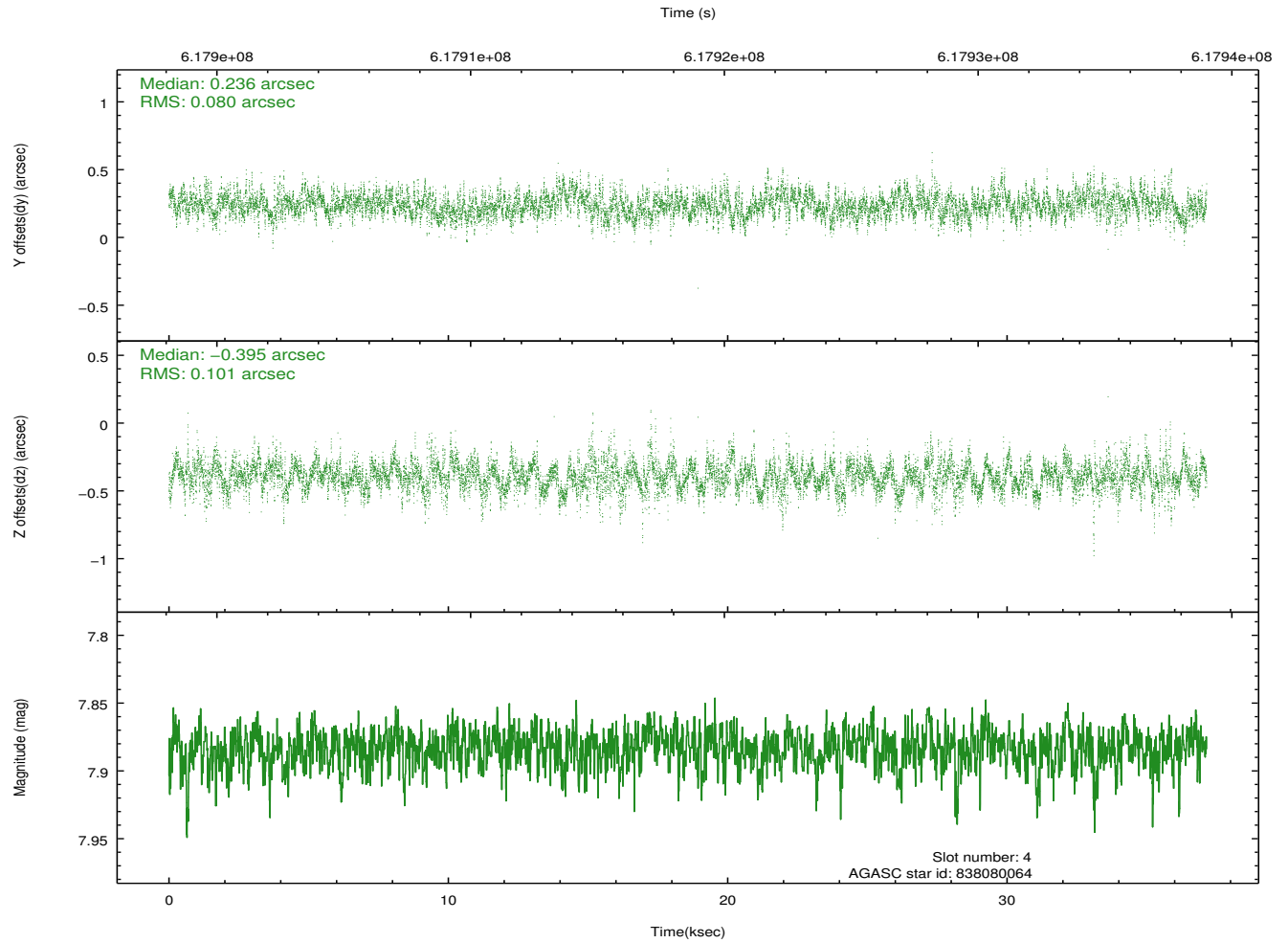
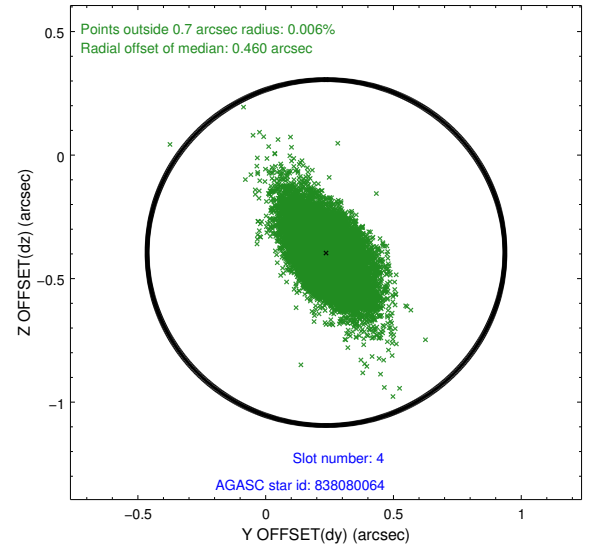
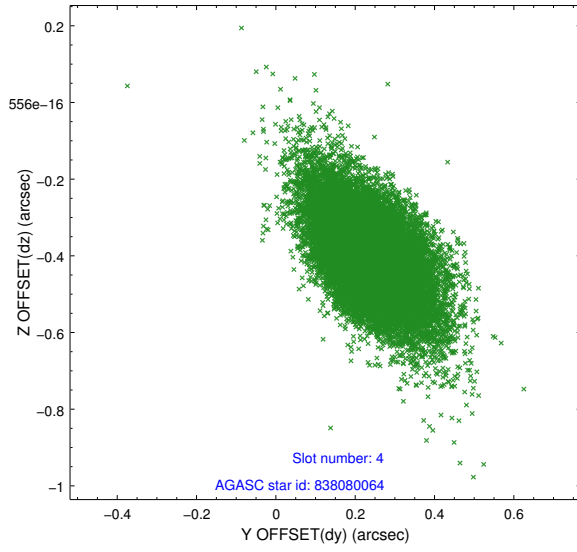
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.07	9061	-0.186	-0.116	0.013	0.030	0.000000	0.000000	-767.87	-1739.19
1	FID		ACIS-S-4	7.18	9061	0.486	0.120	0.009	0.015	0.000000	0.000000	2146.07	169.48
2	FID		ACIS-S-5	7.17	9059	-0.333	0.005	0.012	0.031	0.000000	0.000000	-1820.82	163.10
3	GUIDE	used	838079784	8.39	18114	-0.875	0.812	0.141	0.255	346.351407	-15.431162	-447.72	1729.85
4	GUIDE	used	838080064	7.88	18114	0.236	-0.395	0.129	0.238	346.470392	-15.452626	-593.76	1334.81
5	GUIDE	used	838083928	8.93	18096	0.105	-0.629	0.151	0.274	346.387466	-15.063636	834.02	1377.12
6	GUIDE	used	838209712	9.69	18057	0.304	0.630	0.225	0.384	347.515819	-15.742660	-2253.04	-2051.54
7	GUIDE	used	838214232	9.13	18106	0.234	-0.418	0.142	0.242	346.697093	-15.629804	-1357.46	670.37

2.4 Star Slots

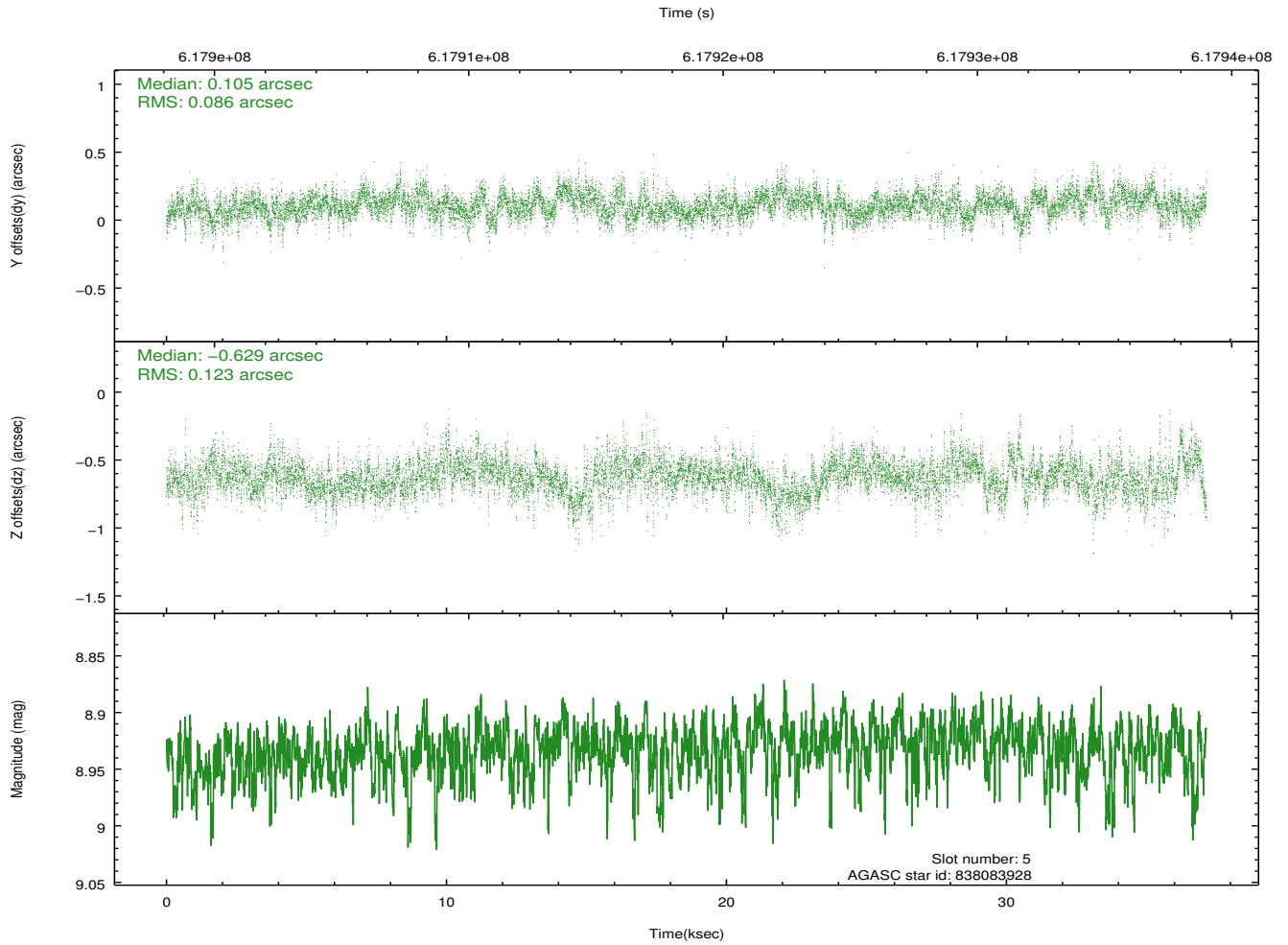
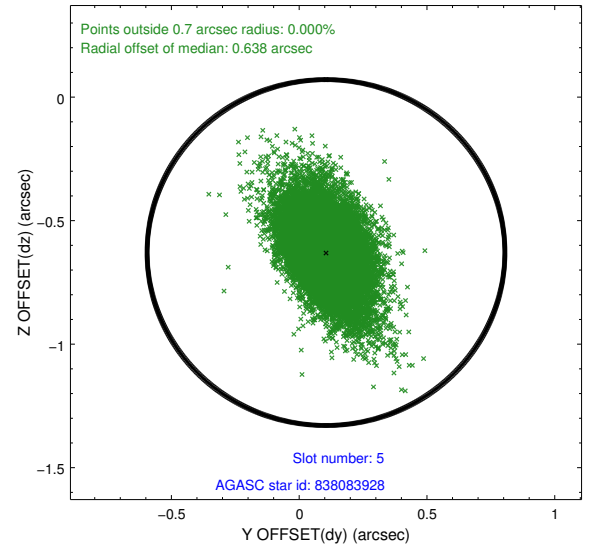
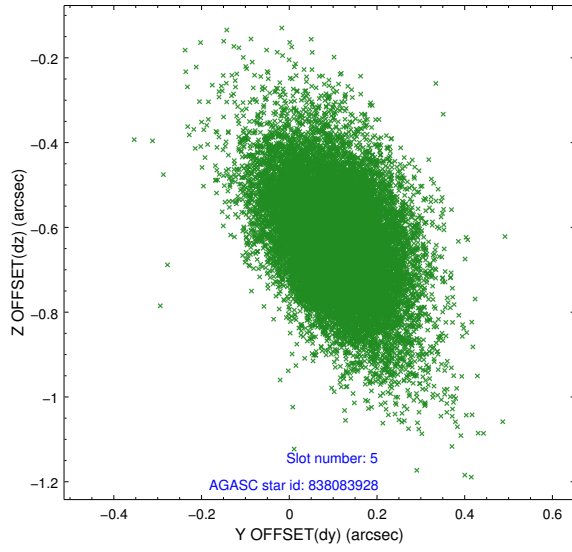
2.4.1 Slot 3



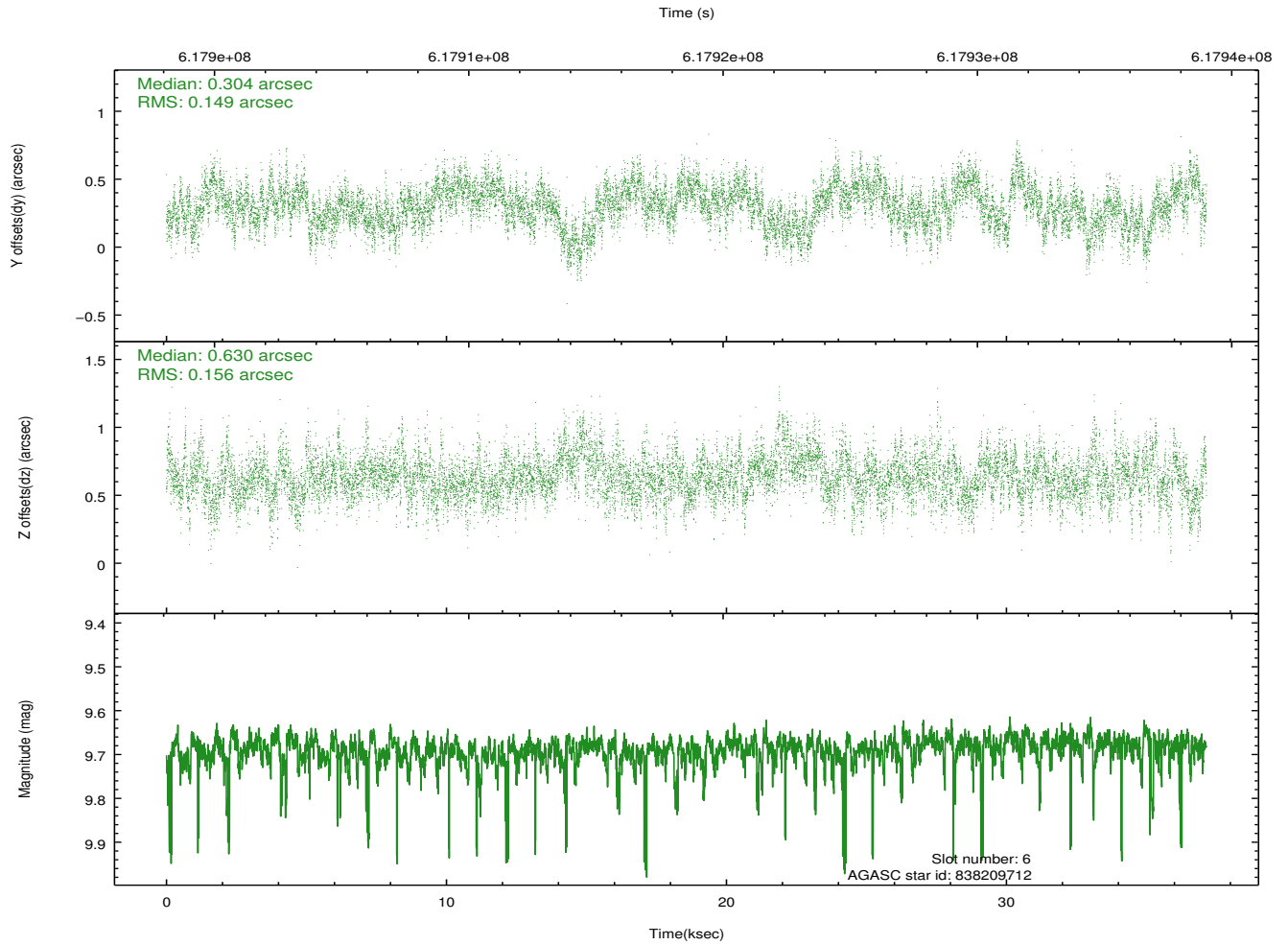
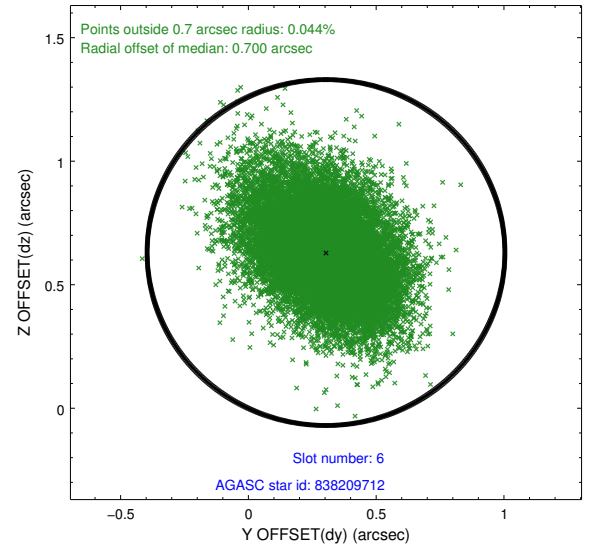
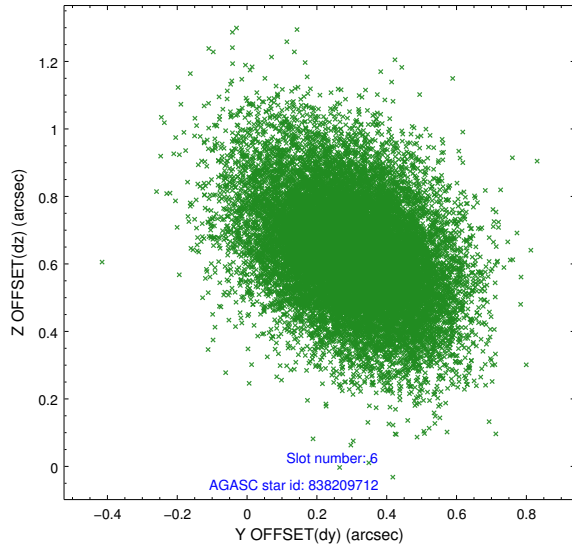
2.4.2 Slot 4



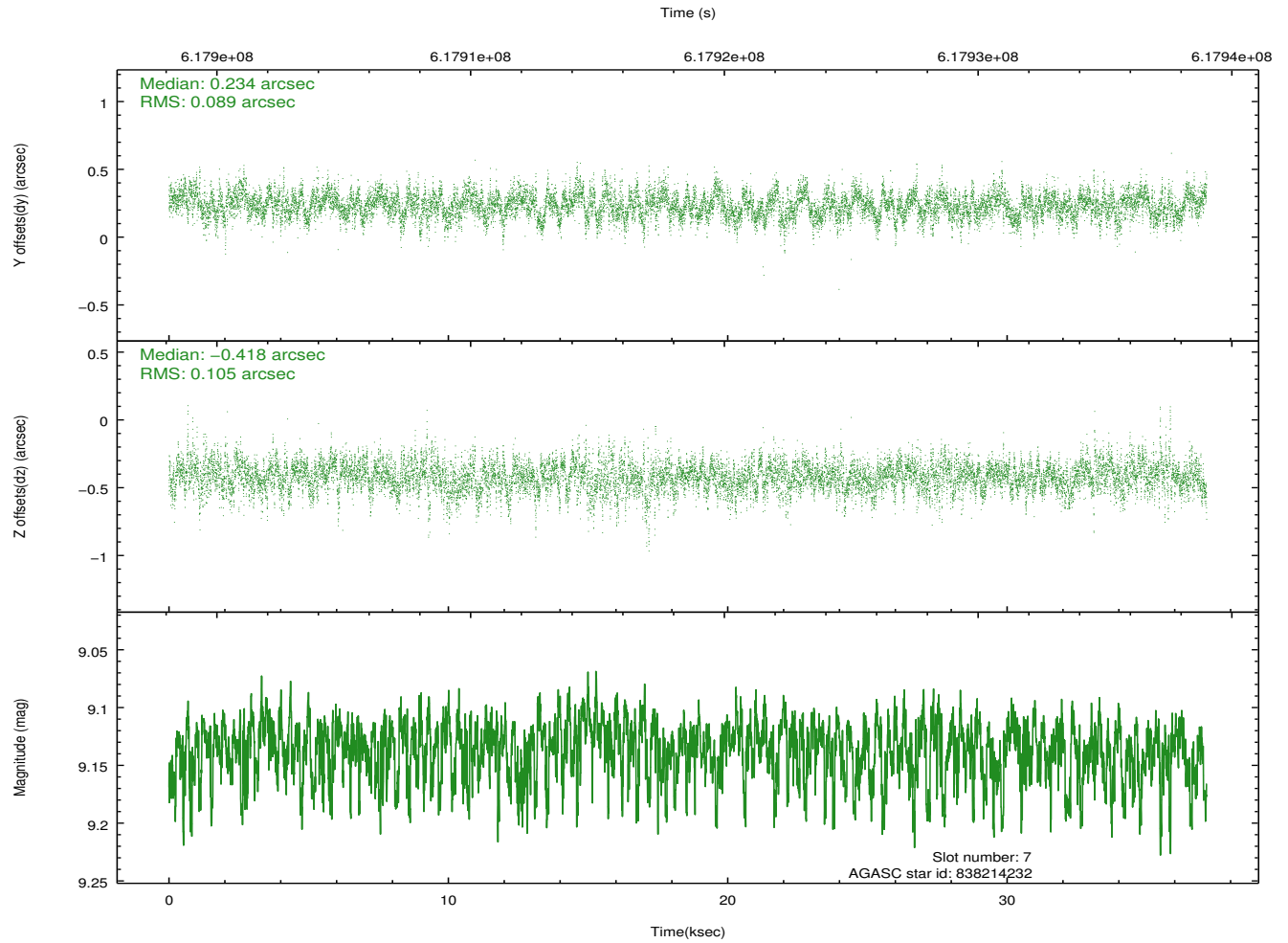
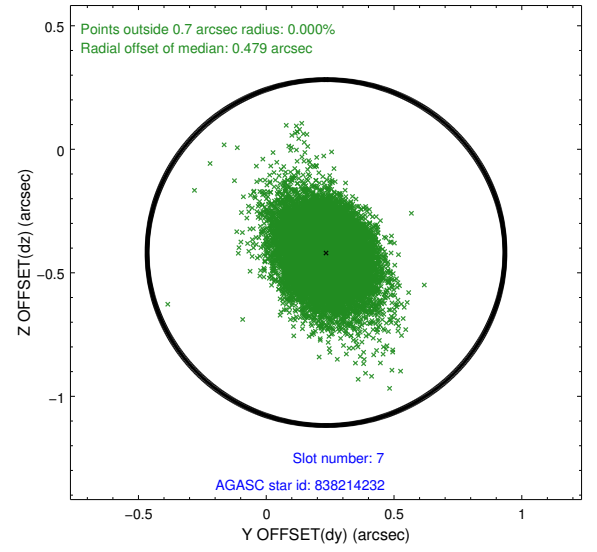
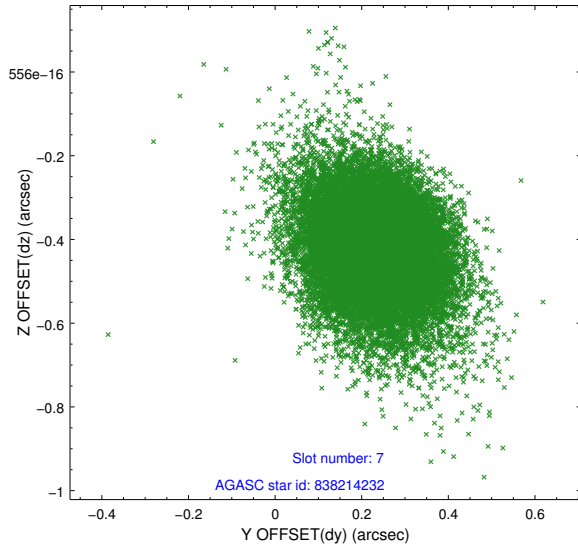
2.4.3 Slot 5



2.4.4 Slot 6

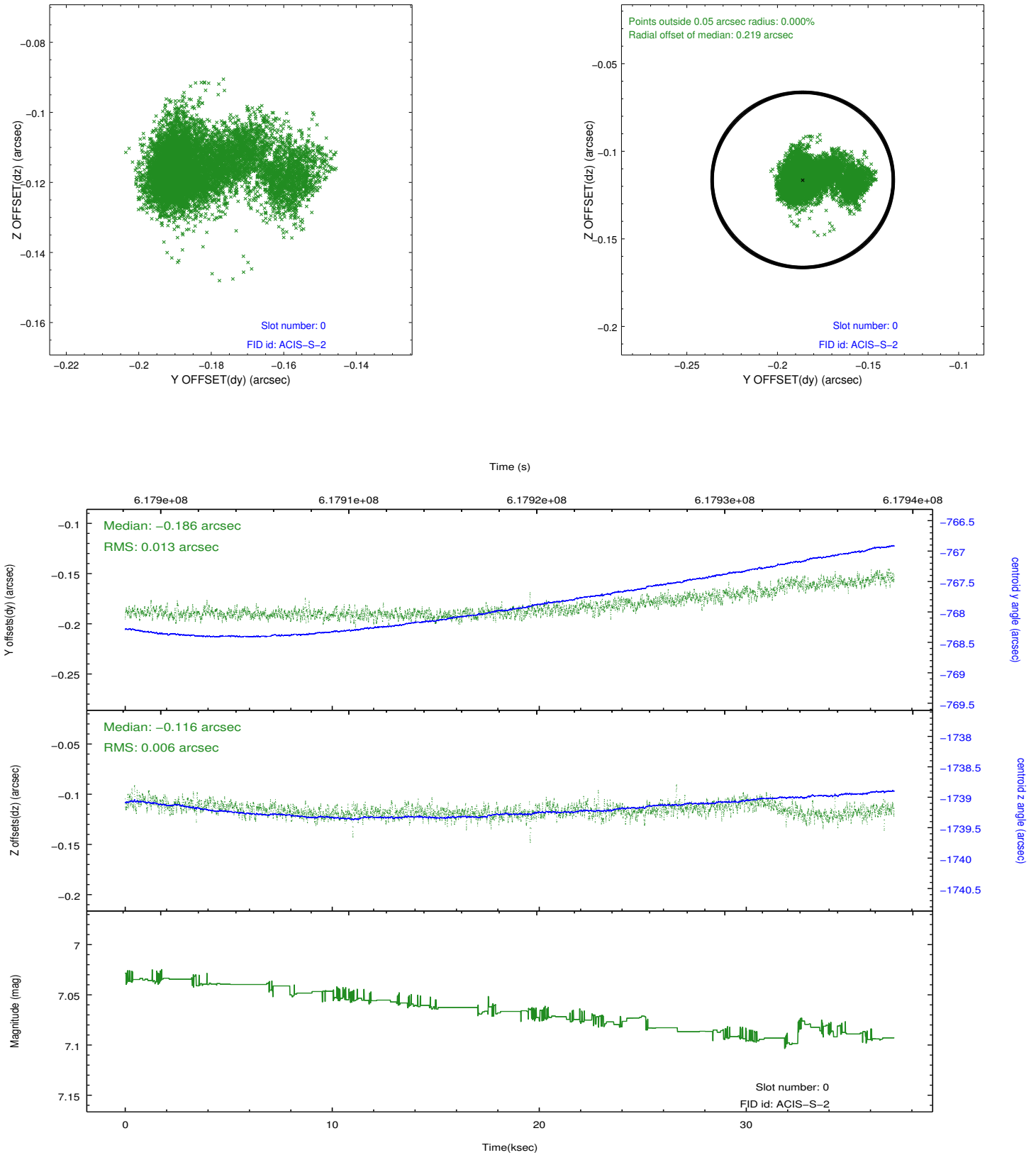


2.4.5 Slot 7

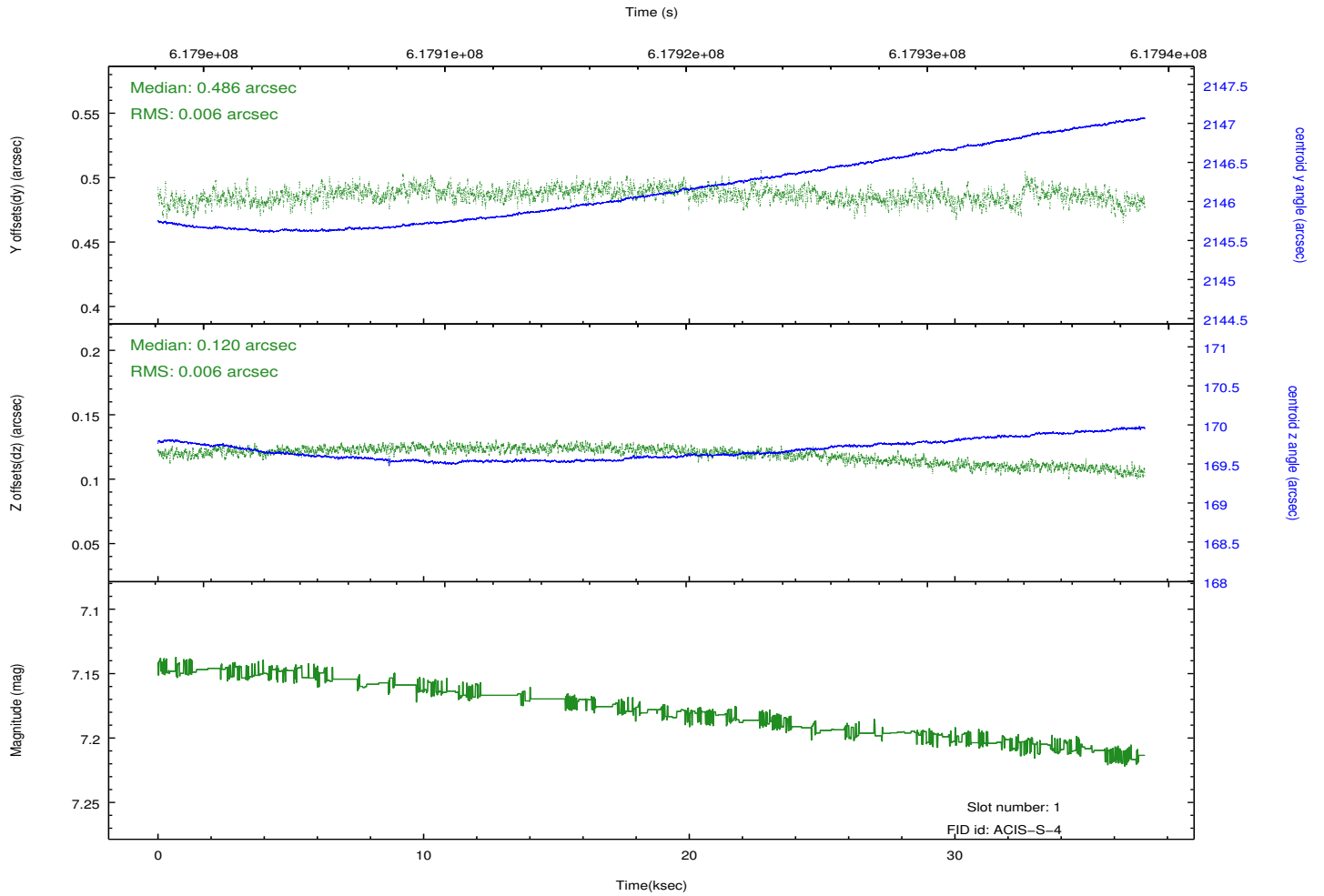
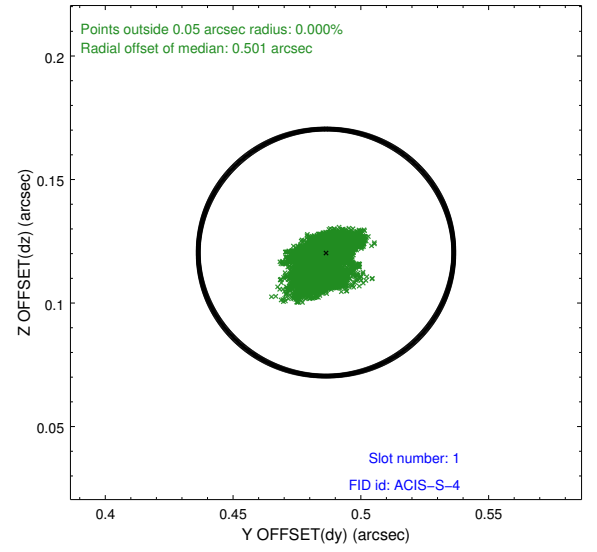
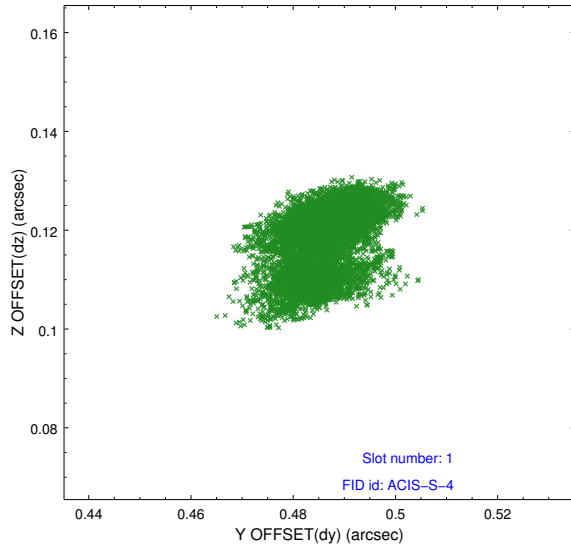


2.5 FID Slots

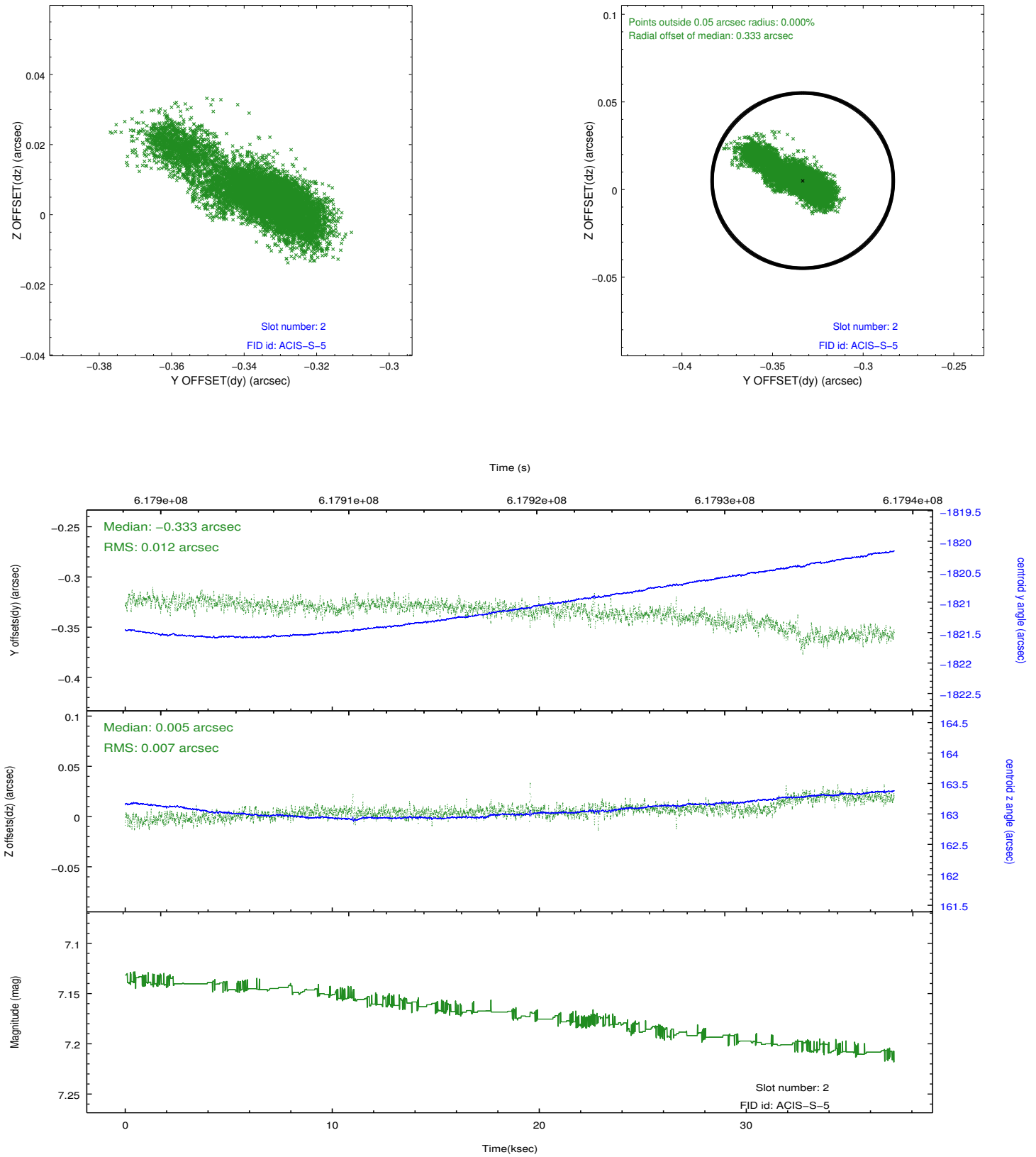
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.08.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.063017177343

A.2 Comments

Optional chips I2 and I3 not included.