

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18919 - L2 Version 1
Chandra X-Ray Center

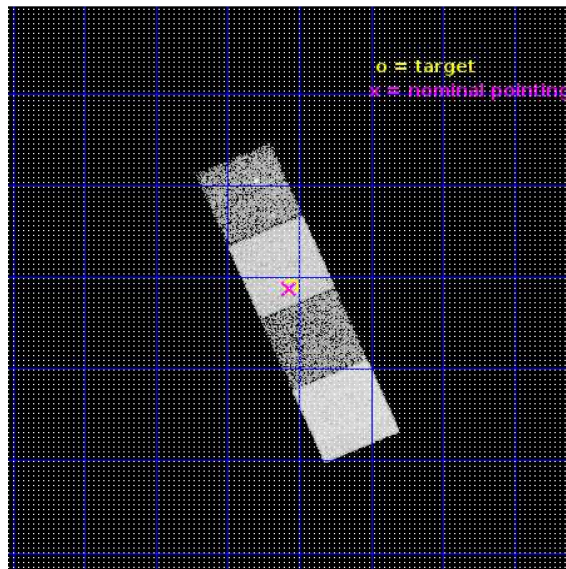
L2 Processing Date : May 28 2017

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1 Front

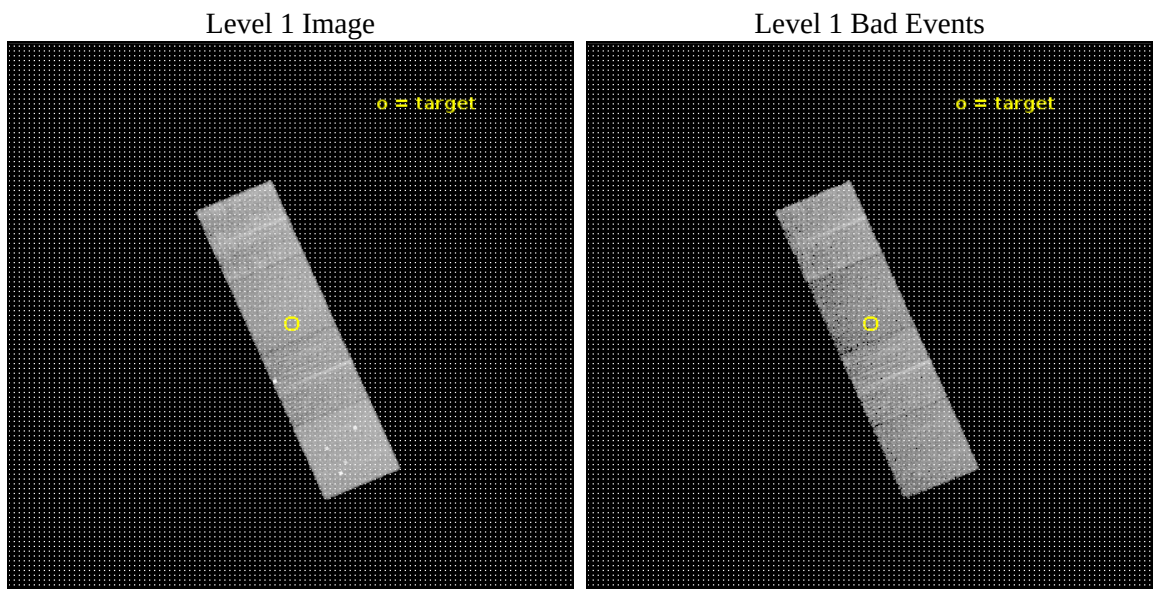
seq_num	201112	Sequence number
obs_id	18919	Observation id
title	Direct Detection of Accreting White Dwarf Pollutants	Proposal titl
observer	Saul Rappaport	Principal investigator
object	WD 1145+017	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	177.14	Observer's specified target RA [deg]
dec_targ	1.483139	Observer's specified target Dec [deg]
ra_nom	177.14242497252	Nominal RA [deg]
dec_nom	1.4792820465927	Nominal Dec [deg]
roll_nom	246.68037739511	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10062.60007751	Sum of GTIs [s]
livetime	9931.1247995188	Livetime [s]
ontime5	10062.60007751	Sum of GTIs [s]
ontime6	10062.60007751	Sum of GTIs [s]
ontime7	10062.60007751	Sum of GTIs [s]
ontime8	10059.459037304	Sum of GTIs [s]
l2events	90453	Number of level 2 events



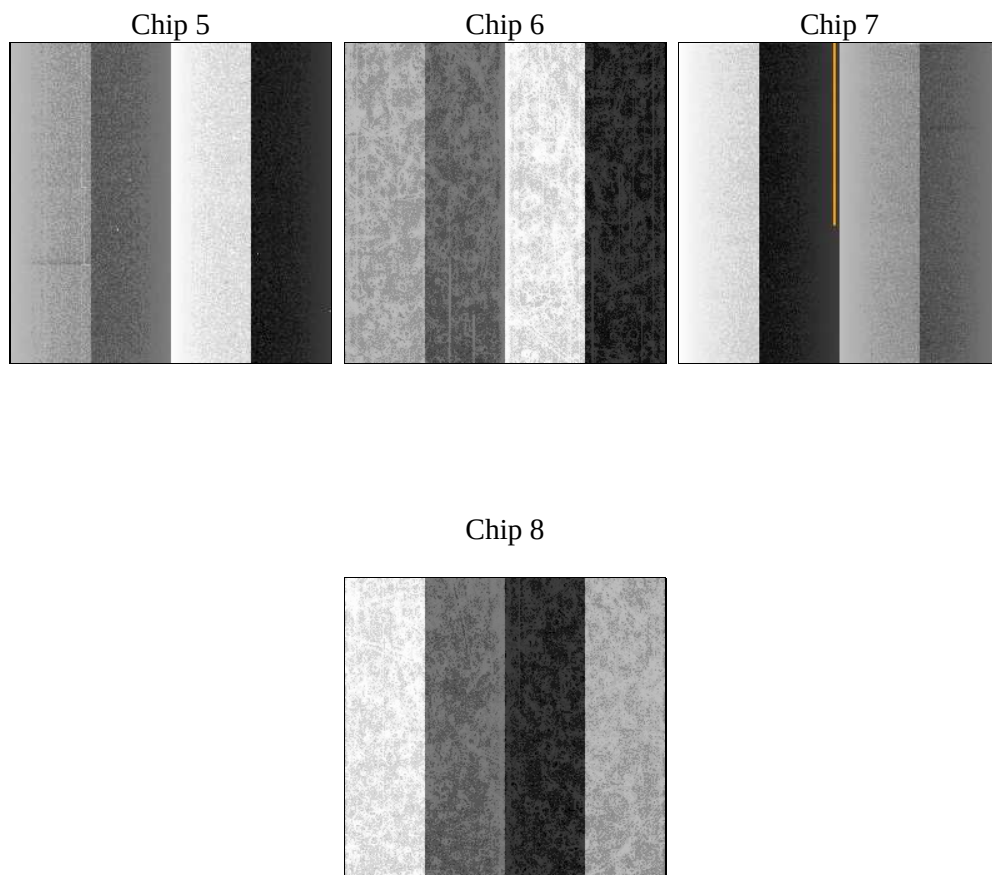
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	10062.60007751	Sum of GTIs [s]
caldbver	4.7.4	 	ontime5	10062.60007751	Sum of GTIs [s]
date	2017-05-28T23:30:36	Date and time of file creation	ontime6	10062.60007751	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10062.60007751	Sum of GTIs [s]
			ontime8	10059.459037304	Sum of GTIs [s]
			l1events	318273	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	95948	66588	70964	84773
rejected events	44472	56577	38025	60497
rejected %	46%	84%	53%	71%

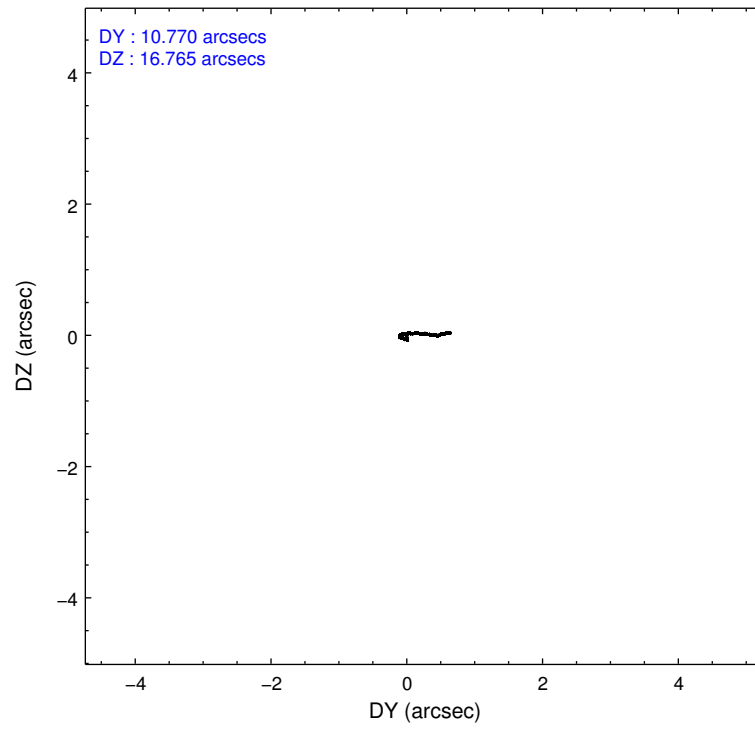
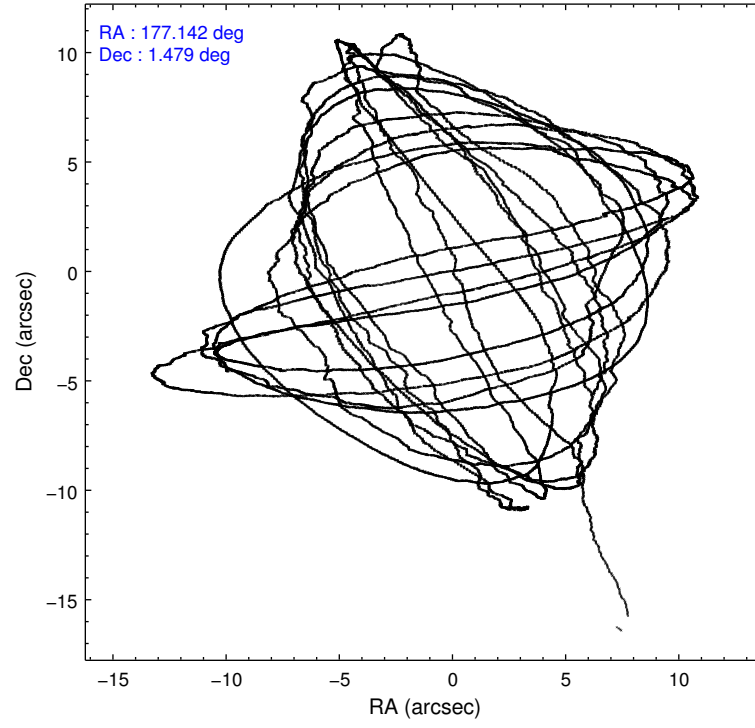
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7530	5350	2983	6786
	7%	8%	4%	8%
grade 1 events	296	38	123	63
	0%	0%	0%	0%
grade 2 events	15603	1649	7242	5898
	16%	2%	10%	6%
grade 3 events	1530	700	2660	2625
	1%	1%	3%	3%
grade 4 events	1512	717	2673	2420
	1%	1%	3%	2%
grade 5 events	6530	2527	6984	4014
	6%	3%	9%	4%
grade 6 events	25312	1600	17388	6553
	26%	2%	24%	7%
grade 7 events	37635	54007	30911	56414
	39%	81%	43%	66%

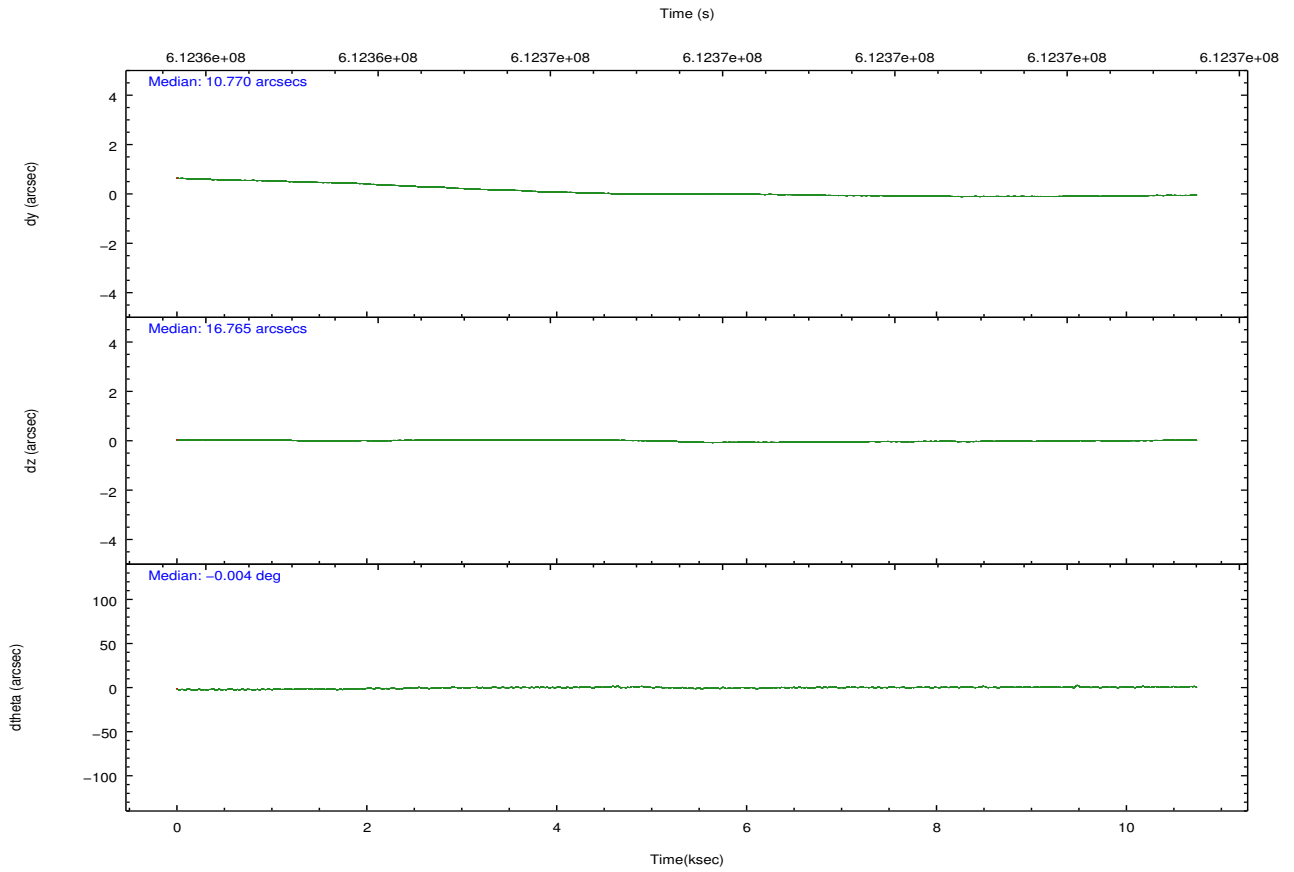
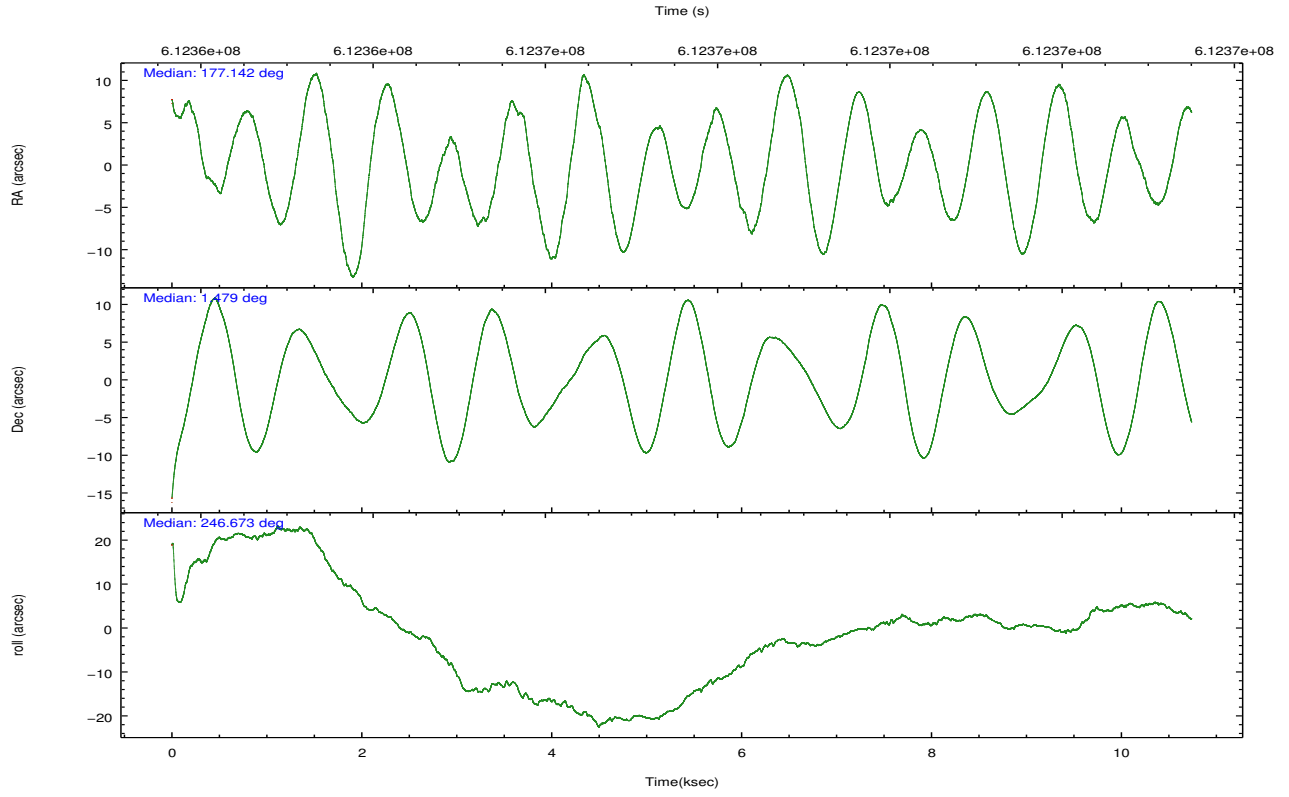
2.2 Compared Parameters

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	177.138813	177.142424972521
[deg] Pointing Dec	1.506474	1.479282046592673
[deg] Pointing Roll	246.523822	246.6803773951149
[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)	612362968.184000	612361503.97782
Observation start date	2017-05-28T12:48:19	2017-05-28T12:25:03
[s] Observation end time (MET)	612372968.184000	612374130.4410599
Observation end date	2017-05-28T15:34:59	2017-05-28T15:55:30
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	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O1	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	O2	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
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



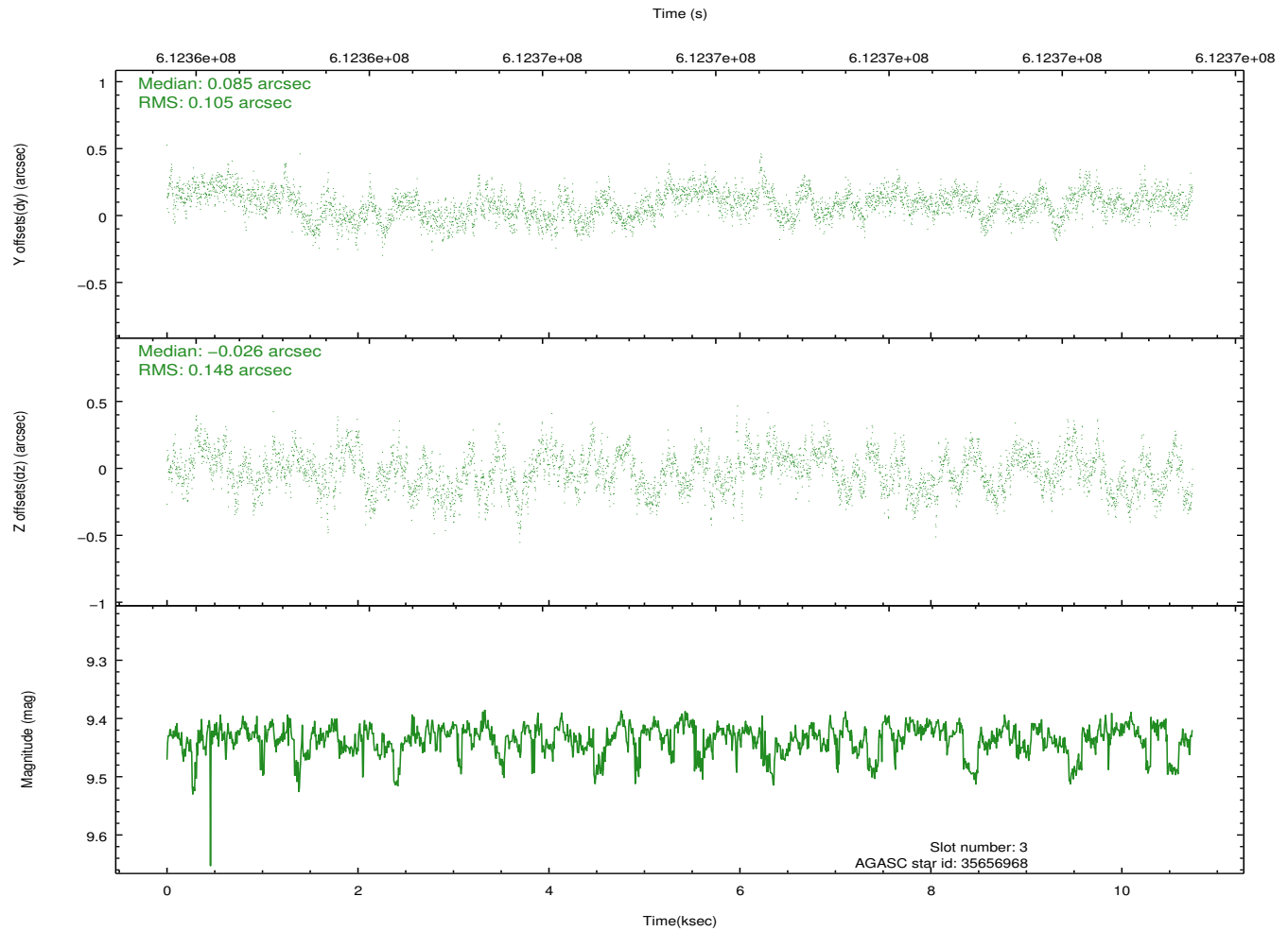
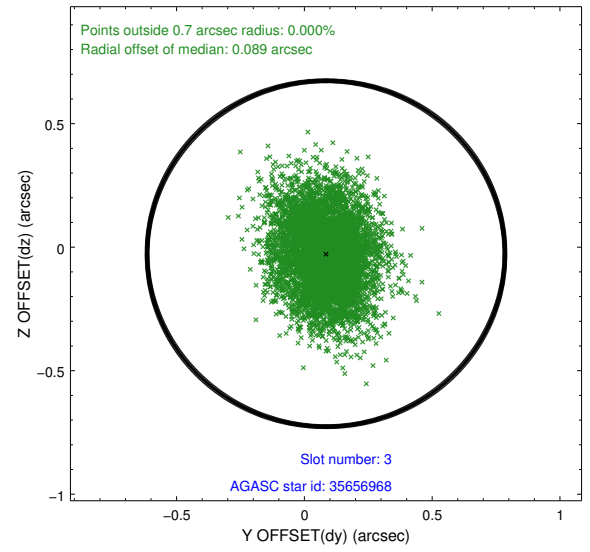
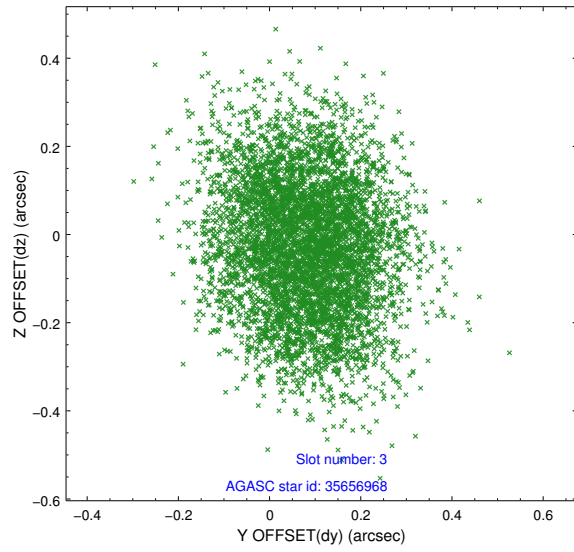


Slot Statistics

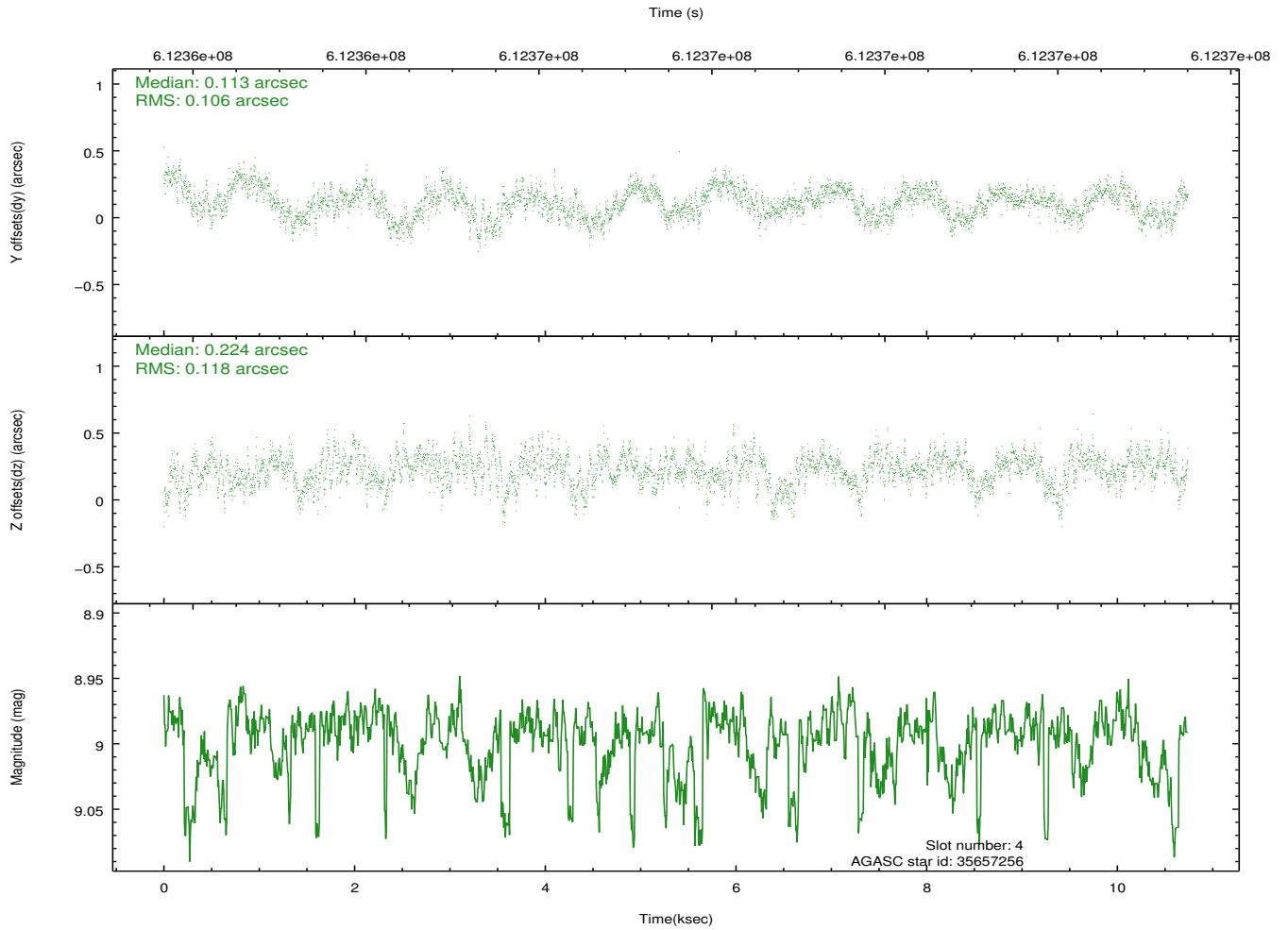
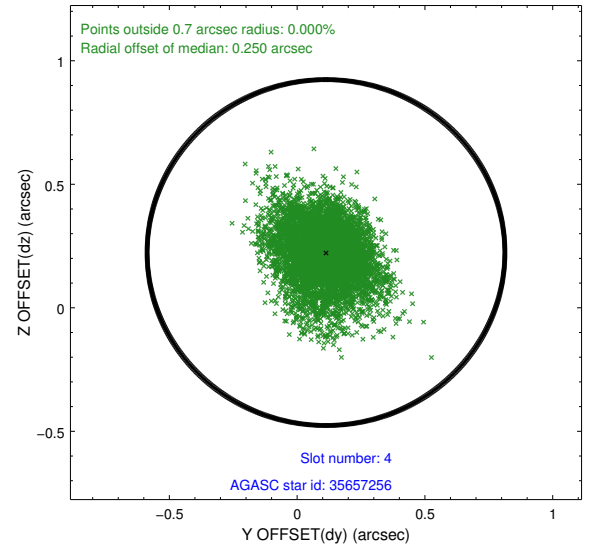
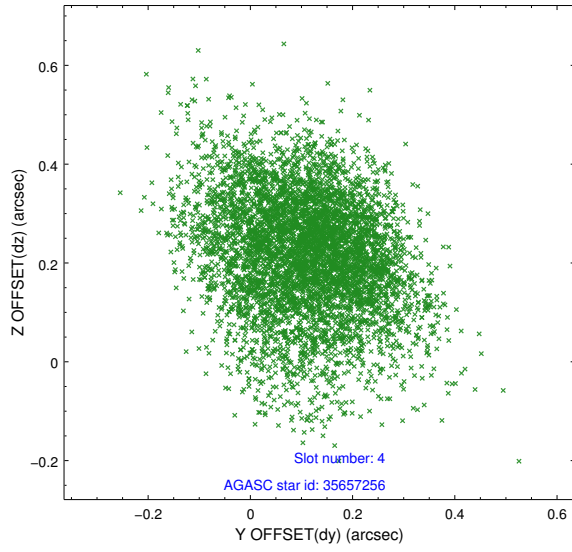
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	2620	-0.163	-0.061	0.008	0.013	0.000000	0.000000	-763.89	-1738.25
1	FID		ACIS-S-4	7.13	2620	0.400	0.095	0.006	0.011	0.000000	0.000000	2149.72	169.90
2	FID		ACIS-S-5	7.13	2620	-0.268	-0.025	0.008	0.012	0.000000	0.000000	-1816.23	163.98
3	GUIDE	used	35656968	9.43	5235	0.085	-0.026	0.195	0.310	176.560047	1.542359	711.90	-1963.00
4	GUIDE	used	35657256	9.00	5237	0.113	0.224	0.168	0.278	176.857006	2.013332	-1269.07	-1658.09
5	GUIDE	used	35658416	7.91	5240	0.077	-0.288	0.125	0.214	176.725004	1.604214	270.88	-1506.68
6	GUIDE	used	35786024	9.47	5234	-0.176	0.249	0.176	0.306	177.790022	1.785804	-1855.55	1747.41
7	GUIDE	used	35788008	9.37	5235	-0.099	-0.133	0.210	0.341	177.612047	1.006805	970.99	2279.26

2.4 Star Slots

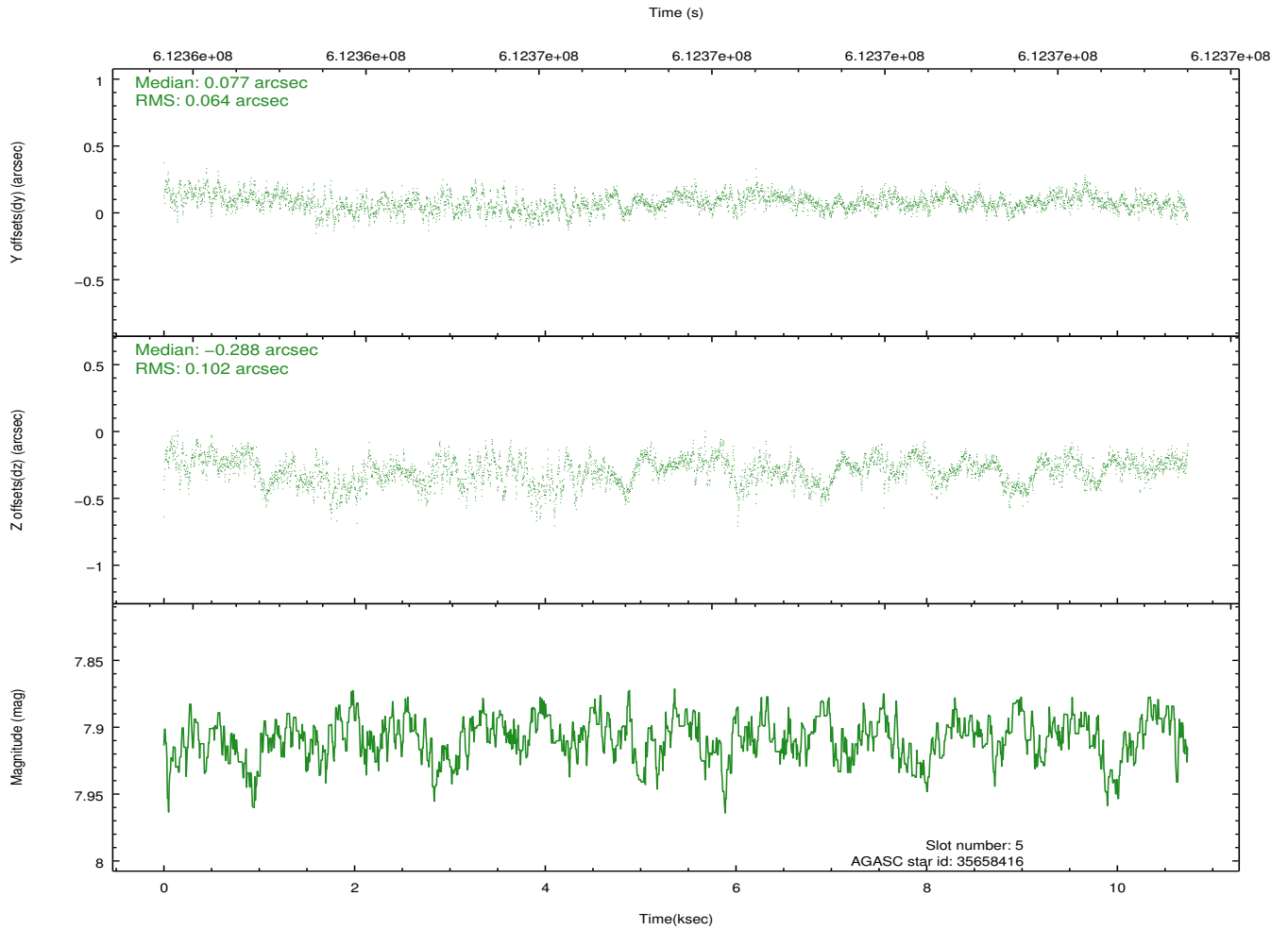
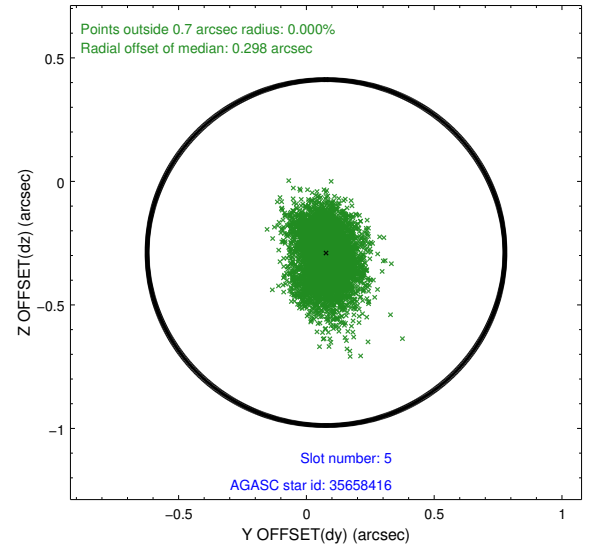
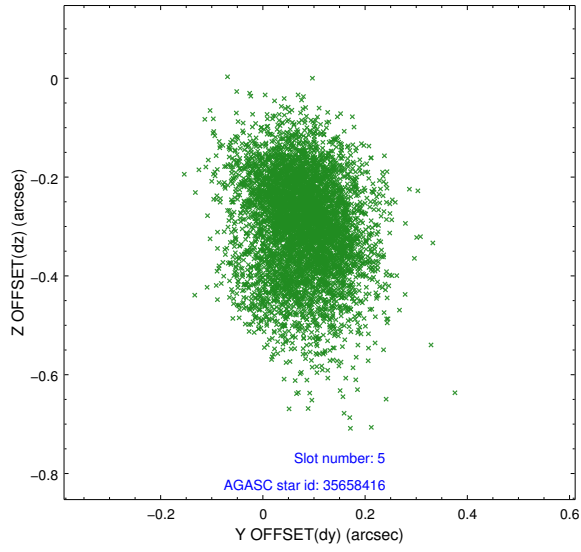
2.4.1 Slot 3



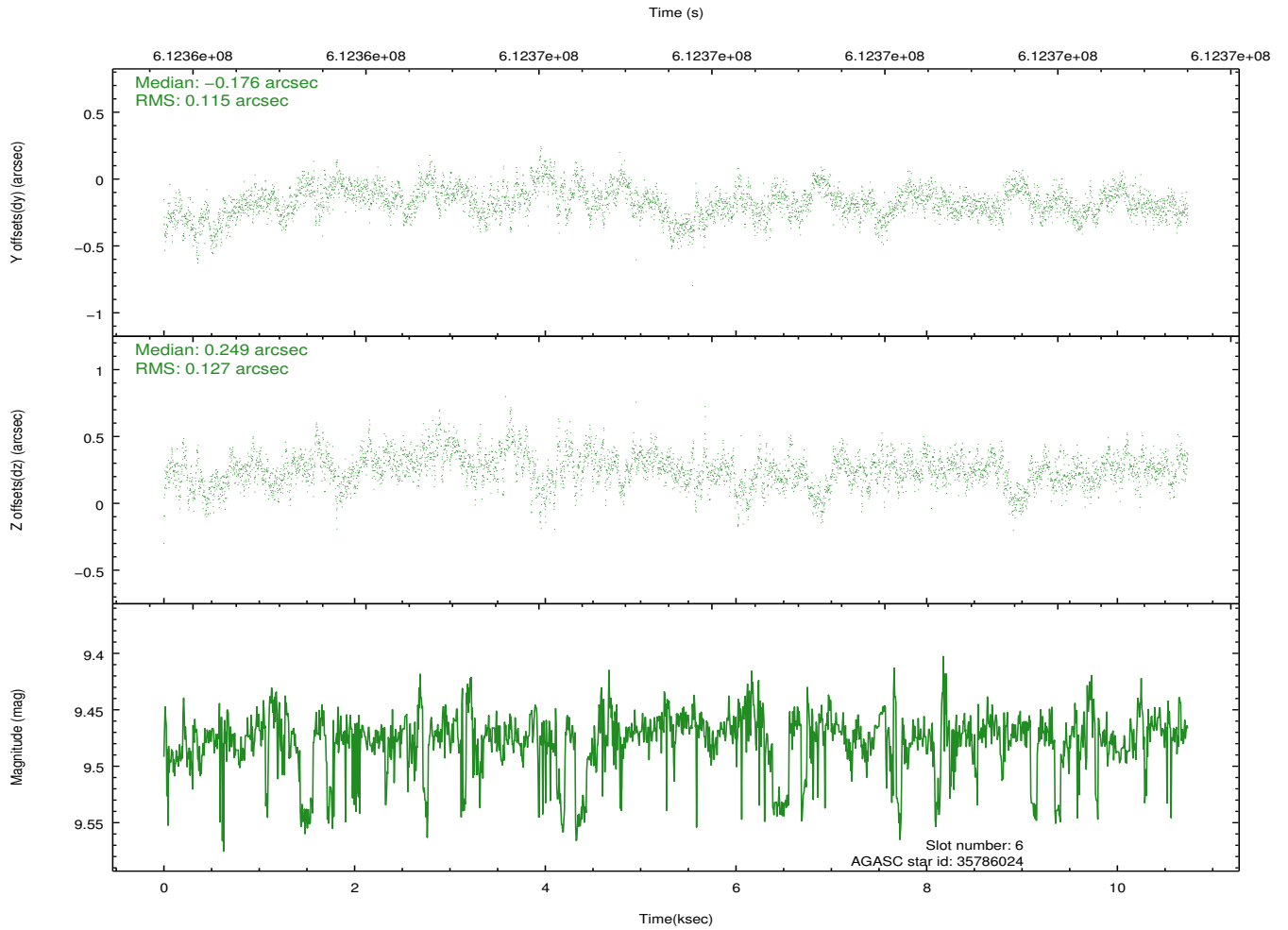
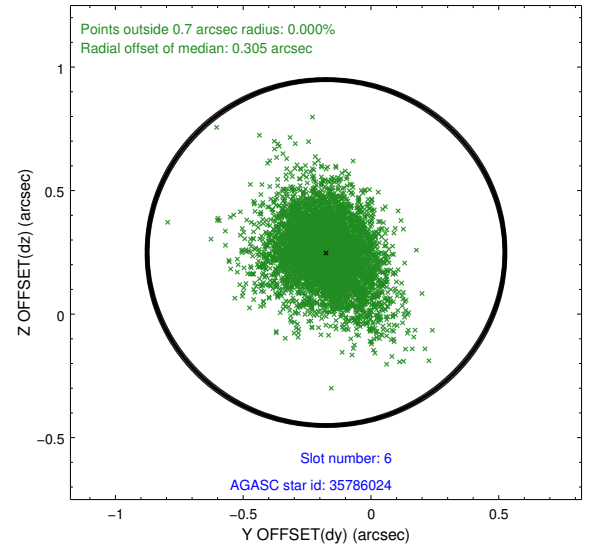
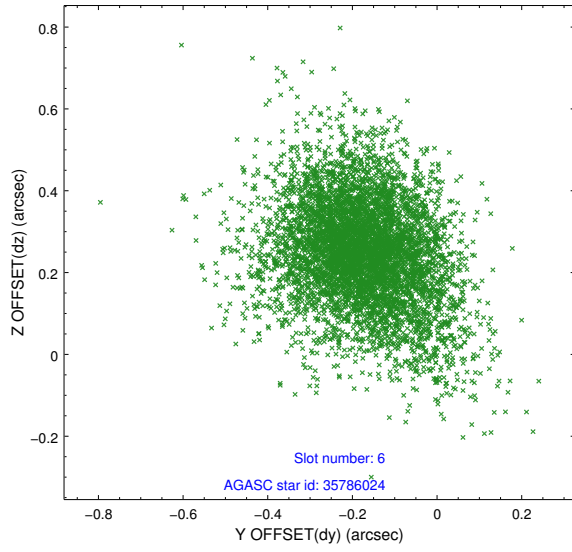
2.4.2 Slot 4



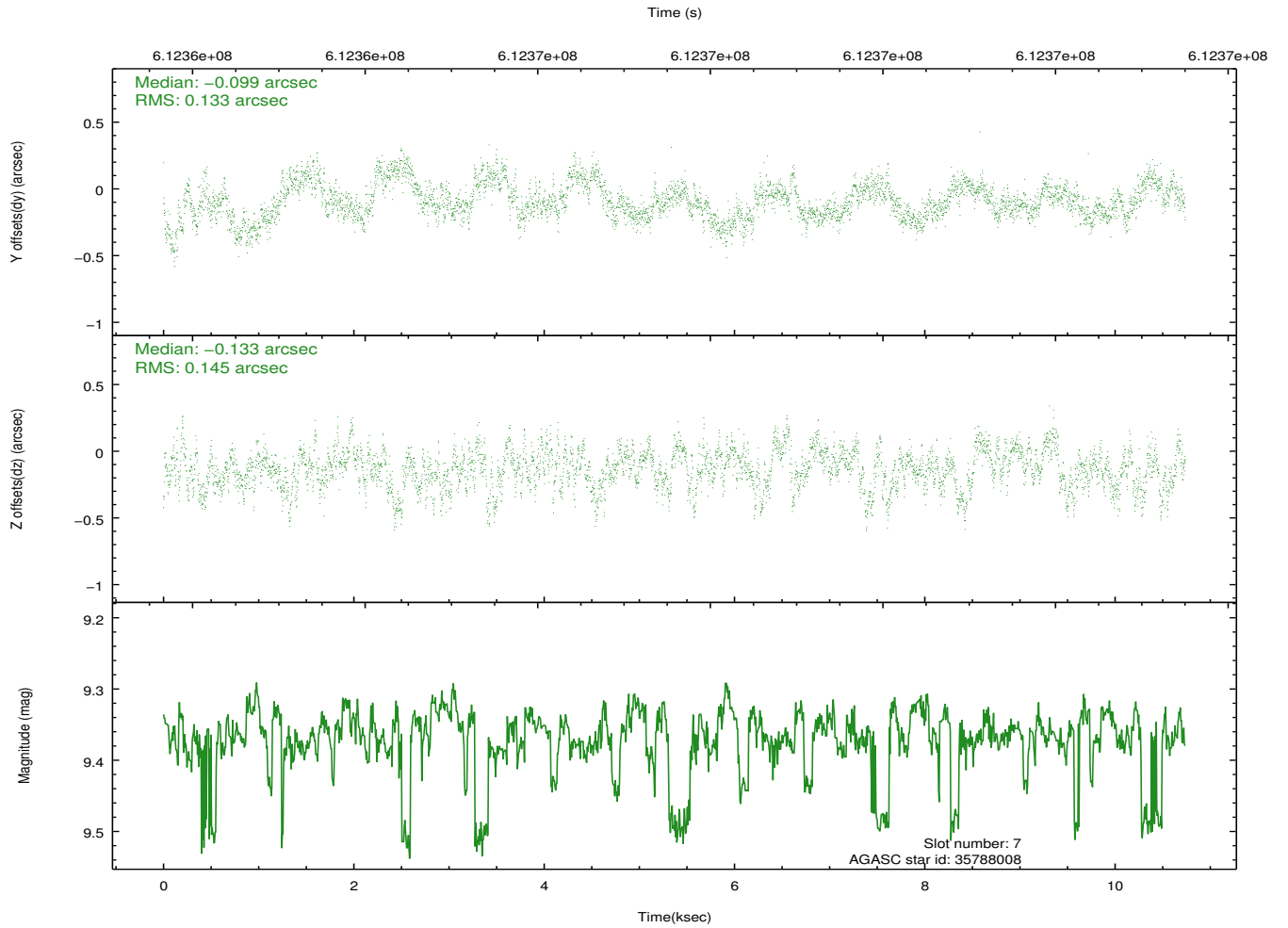
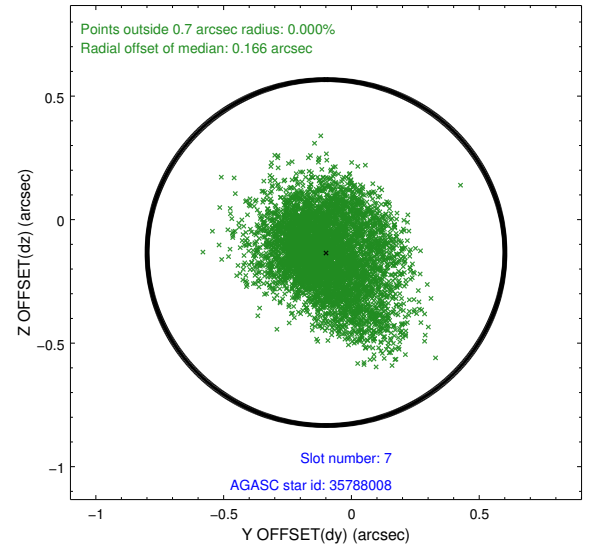
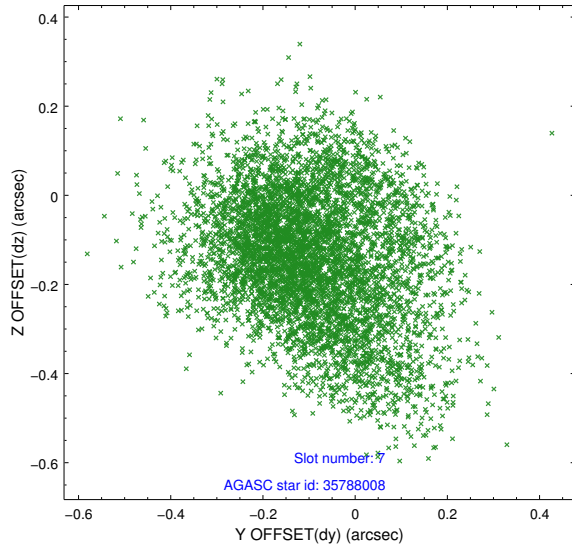
2.4.3 Slot 5



2.4.4 Slot 6

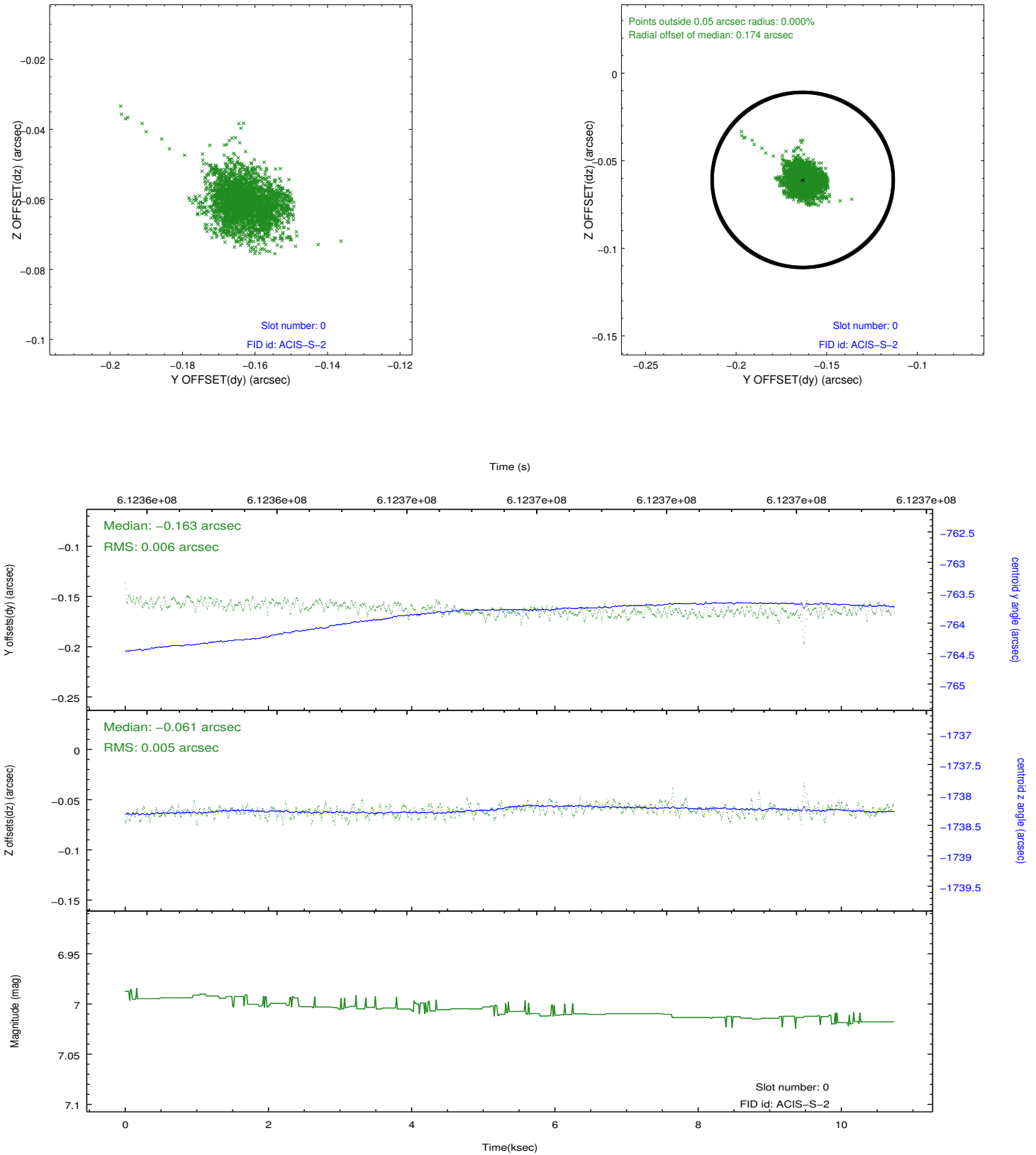


2.4.5 Slot 7

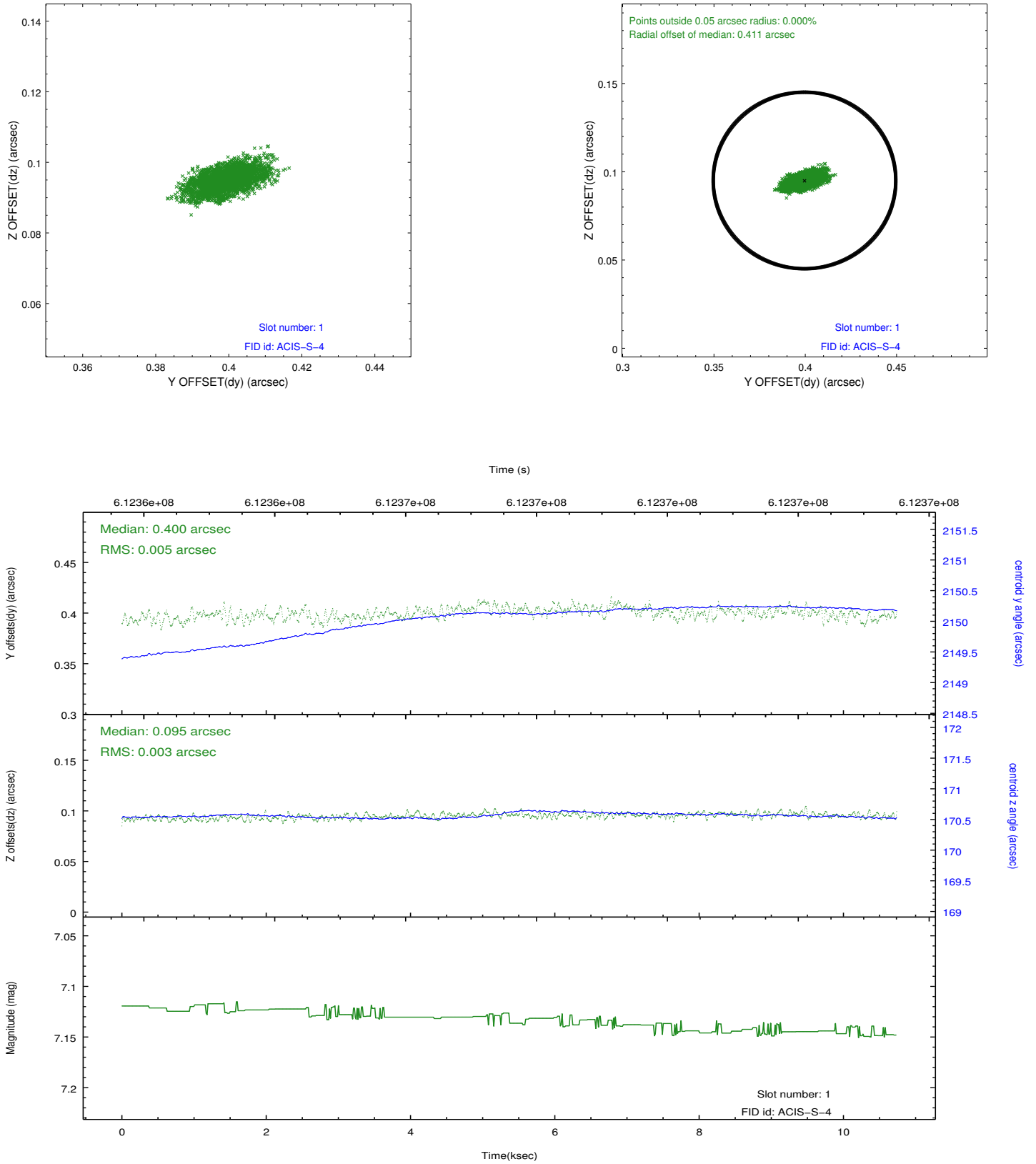


2.5 FID Slots

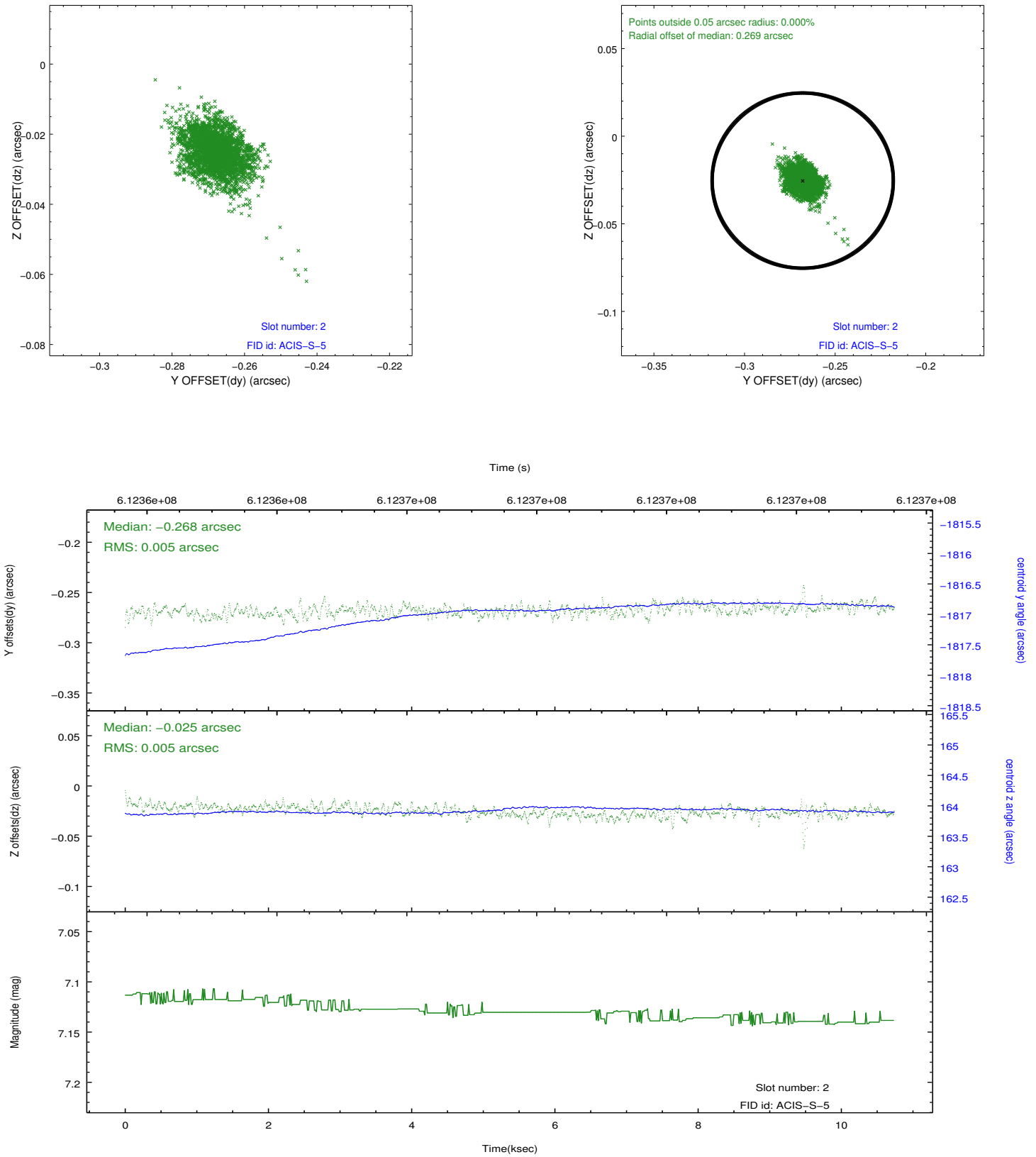
2.5.1 Slot 0



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)	2017.05.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.06260007751

A.2 Comments