

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21512 - L2 Version 1
Chandra X-Ray Center

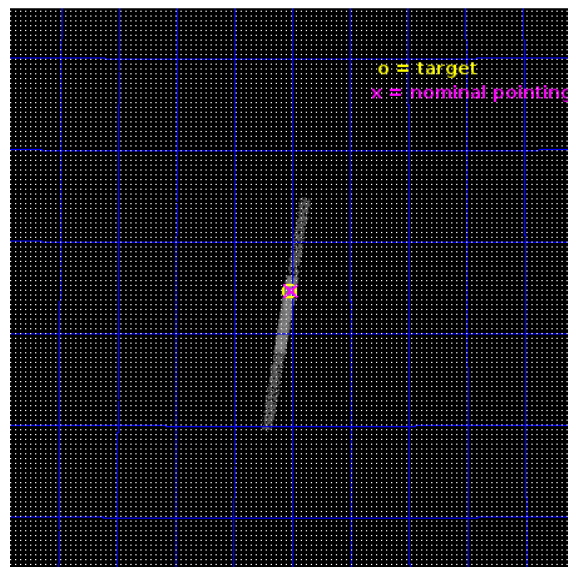
L2 Processing Date : Dec 17 2018

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1 Front

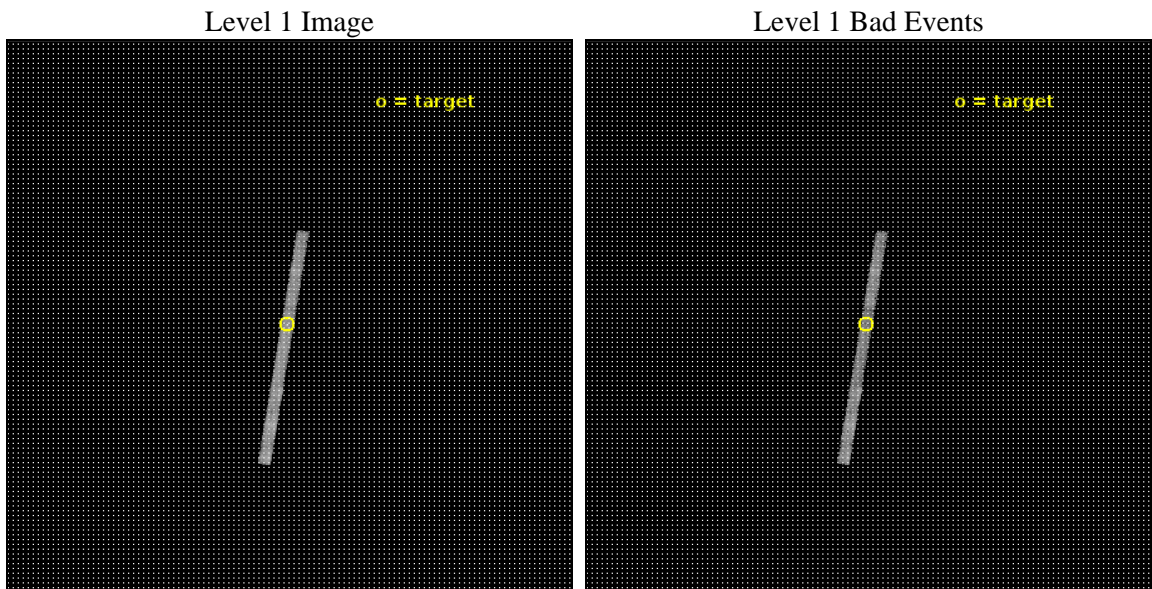
seq_num	703805	Sequence number
obs_id	21512	Observation id
title	X-ray Properties of Extreme Super Eddington Accreting Massive Black Holes	Proposal title
observer	Michael Brotherton	Principal investigator
object	SDSS J080131.58+354436.4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	120.381667	Observer's specified target RA [deg]
dec_targ	35.743444	Observer's specified target Dec [deg]
ra_nom	120.37663681453	Nominal RA [deg]
dec_nom	35.745179257079	Nominal Dec [deg]
roll_nom	99.159647334084	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7853.4003121853	Sum of GTIs [s]
livetime	7350.6180383614	Livetime [s]
ontime6	7853.4003121853	Sum of GTIs [s]
ontime7	7853.4003121853	Sum of GTIs [s]
ontime8	7853.3819328547	Sum of GTIs [s]
l2events	7826	Number of level 2 events



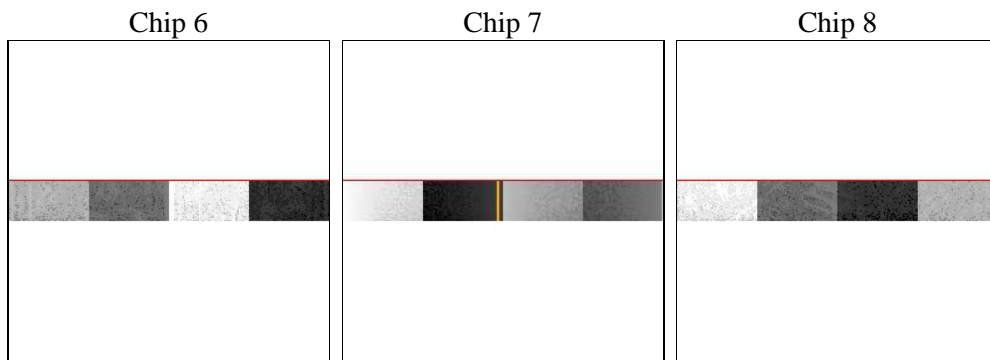
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7750.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	7853.4003121853	Sum of GTIs [s]
caldsver	4.8.2	 	ontime6	7853.4003121853	Sum of GTIs [s]
date	2018-12-17T06:31:37	Date and time of file creation	ontime7	7853.4003121853	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	7853.3819328547	Sum of GTIs [s]
			l1events	34444	Number of level 1 events

2.1.4 Events

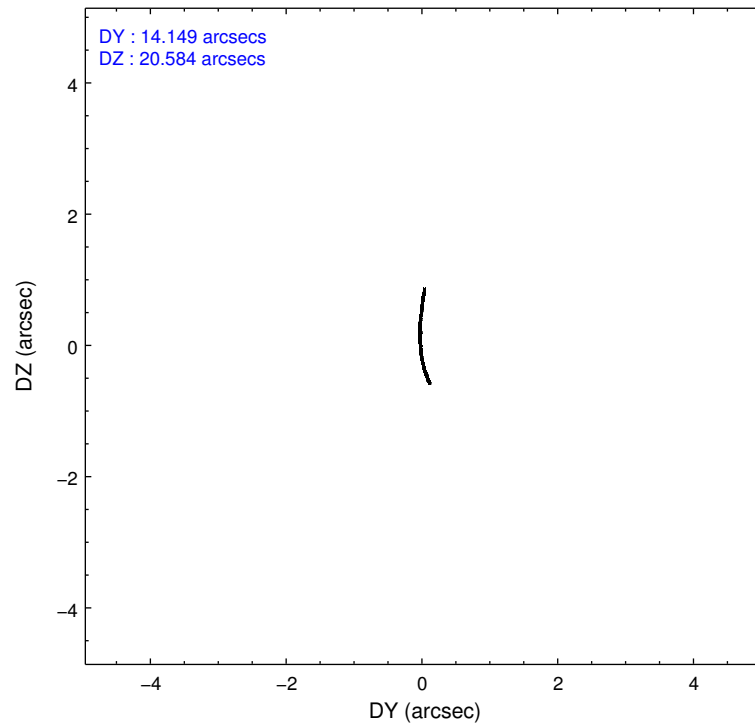
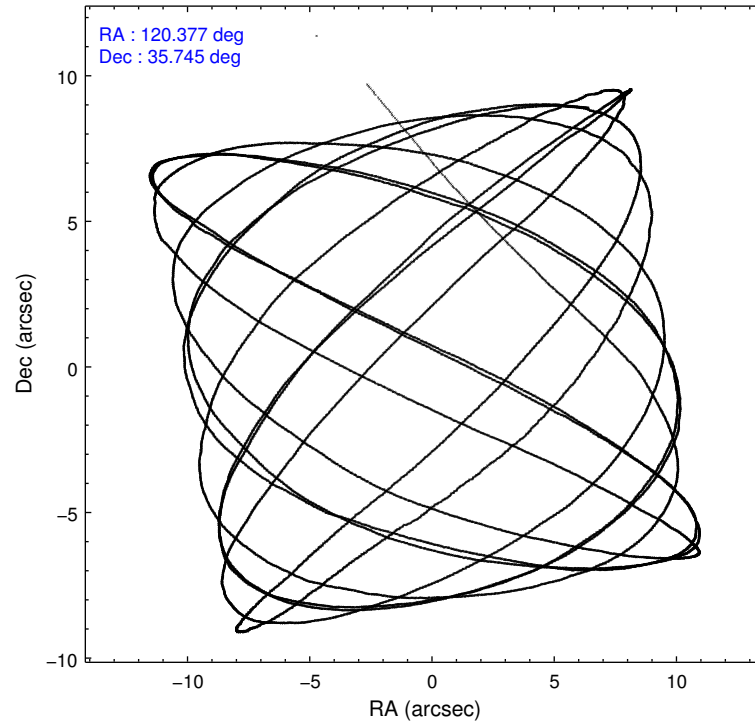
	ccd 6	ccd 7	ccd 8
level 1 events	9180	11643	13621
rejected events	8071	5551	10362
rejected %	87%	47%	76%

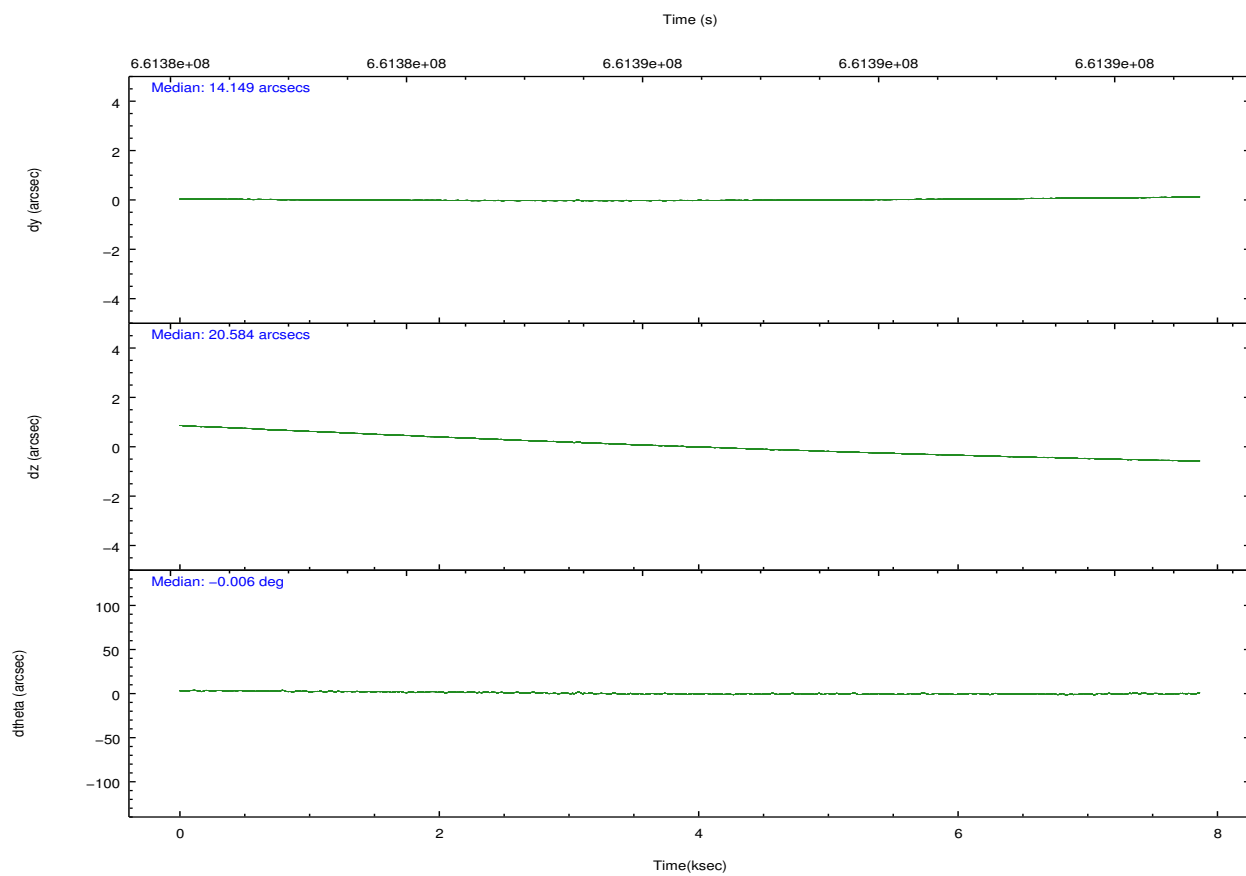
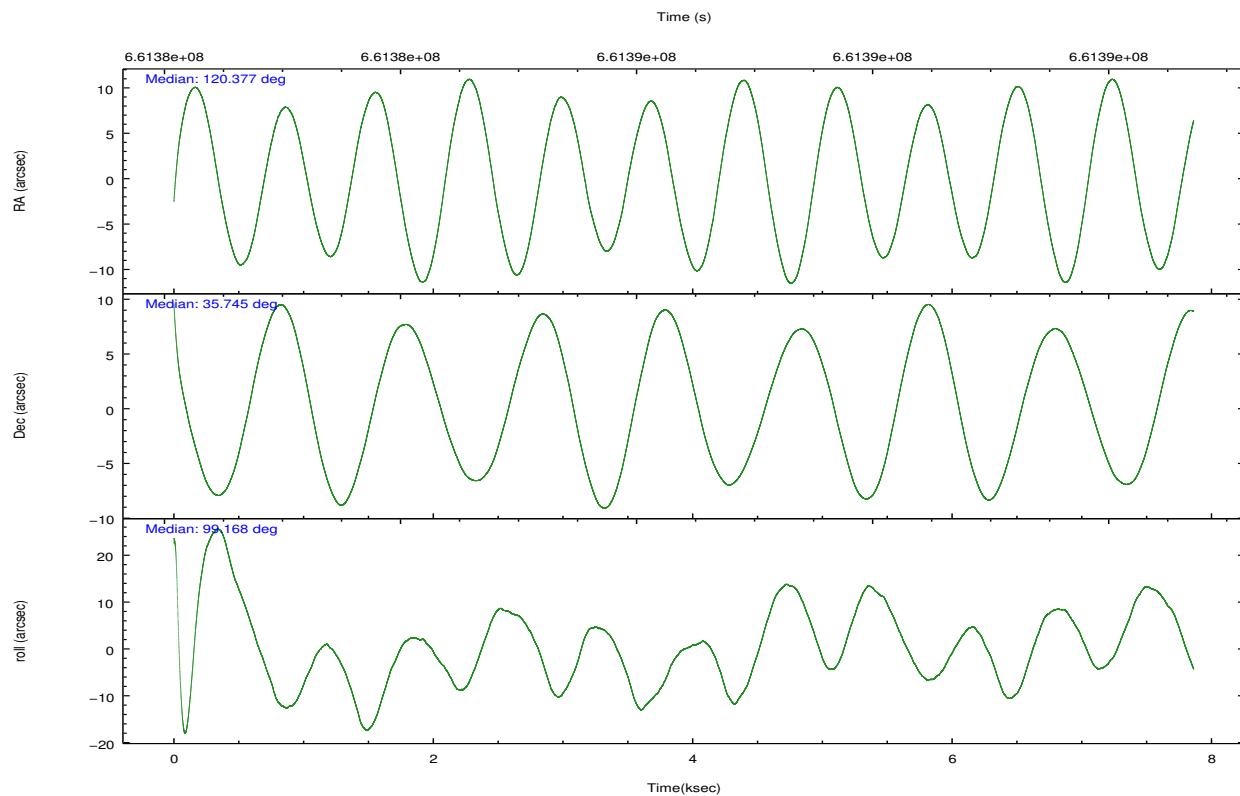
	ccd 6	ccd 7	ccd 8
grade 0 events	295	793	818
	3%	6%	6%
grade 1 events	2	25	4
	0%	0%	0%
grade 2 events	212	1409	669
	2%	12%	4%
grade 3 events	195	705	383
	2%	6%	2%
grade 4 events	199	680	356
	2%	5%	2%
grade 5 events	394	1087	522
	4%	9%	3%
grade 6 events	208	2505	1033
	2%	21%	7%
grade 7 events	7675	4439	9836
	83%	38%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	120.398337	120.3766368145295	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	35.724154	35.74517925707927	Subarray start row	449	449
[deg] Pointing Roll	98.990262	99.159647334084	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.6
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	661382572.184000	661381018.79669			
Observation start date	2018-12-16T21:21:43	2018-12-16T20:56:58			
[s] Observation end time (MET)	661390322.184000	661391569.63482			
Observation end date	2018-12-16T23:30:53	2018-12-16T23:52:49			
Read mode	TIMED	TIMED			

2.3 Aspect



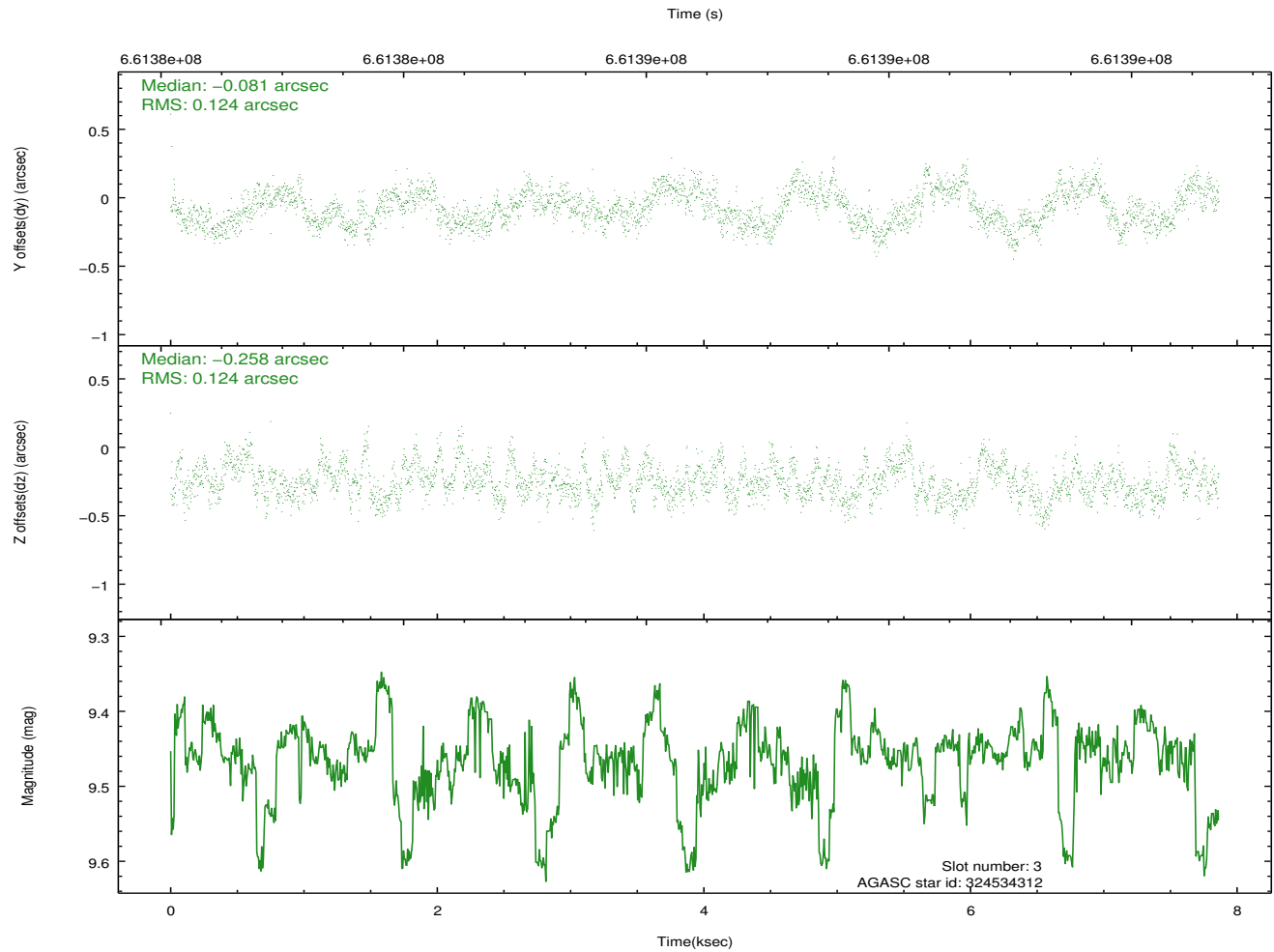
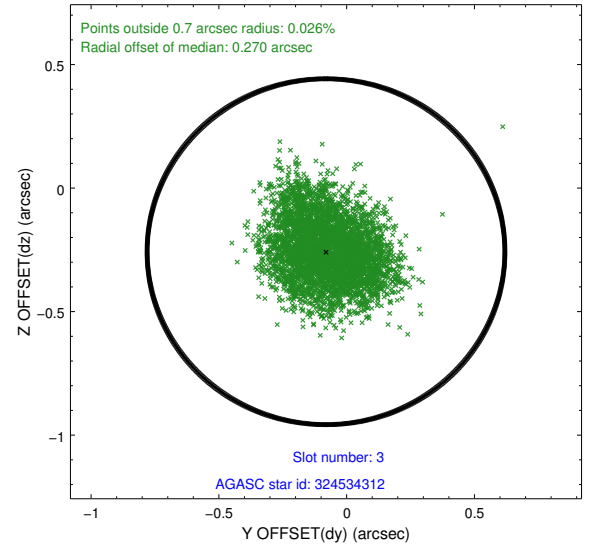
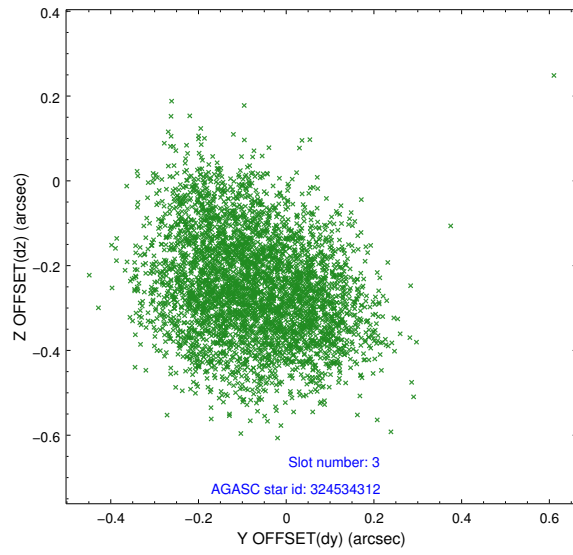


Slot Statistics

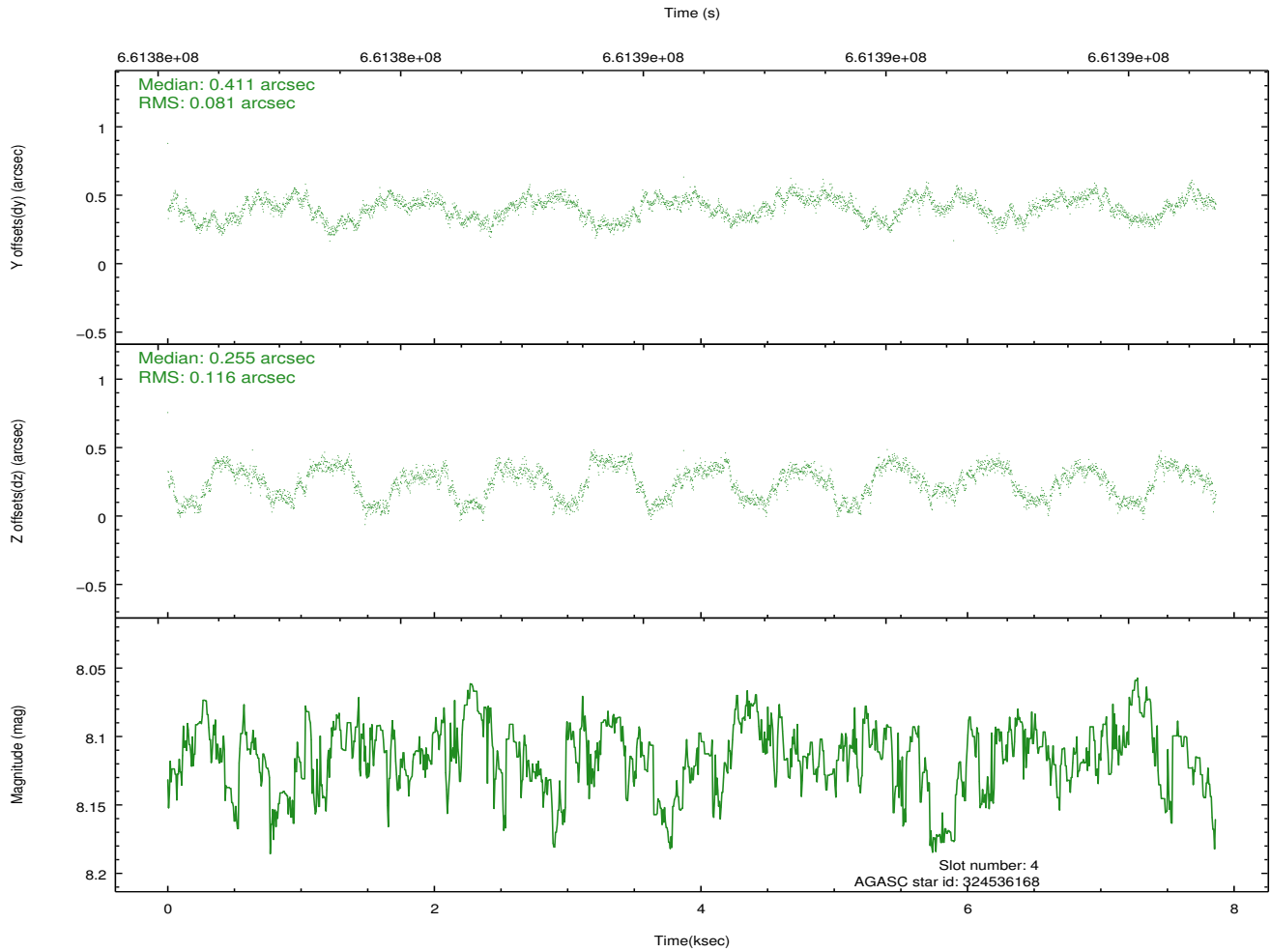
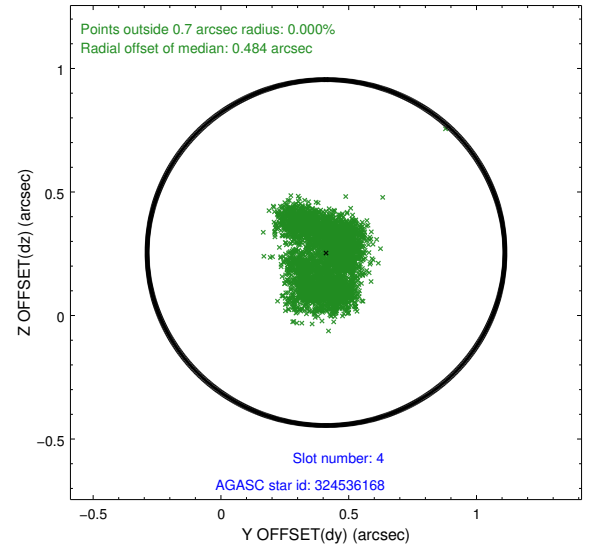
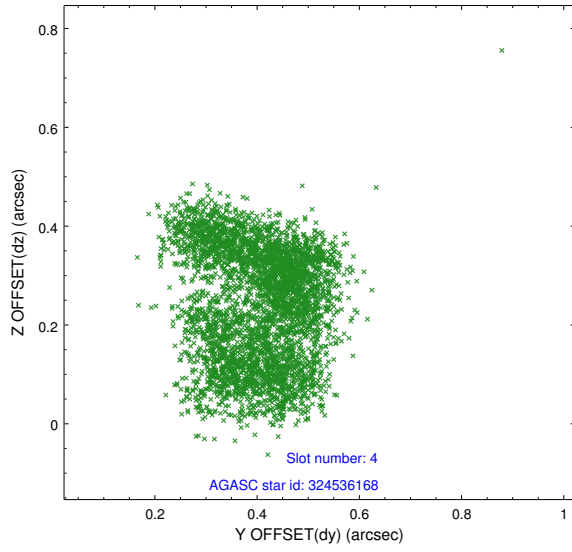
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.96	1918	1.000	-0.324	-0.156	0.011	0.018	0.000000	0.000000	-767.36	-1742
1	FID		ACIS-S-4	7.09	1918	1.000	0.757	0.198	0.017	0.028	0.000000	0.000000	2146.59	165
2	FID		ACIS-S-5	7.07	1918	1.000	-0.461	-0.033	0.013	0.019	0.000000	0.000000	-1819.50	160
3	GUIDE	used	324534312	9.46	3832	1.000	-0.081	-0.258	0.191	0.286	120.135932	35.613745	-270.92	821
4	GUIDE	used	324536168	8.11	3837	1.000	0.411	0.255	0.155	0.227	120.973675	35.420580	-1338.04	-1495
5	GUIDE	used	325062544	8.59	3832	1.000	-0.109	0.111	0.149	0.244	120.714391	36.085678	1143.25	-1111
6	GUIDE	used	325068184	9.18	3831	1.000	-0.563	-0.459	0.272	0.394	119.972122	36.290358	2209.58	902
7	GUIDE	used	324534392	8.79	3833	1.000	0.359	0.362	0.156	0.261	120.948394	35.400393	-1397.72	-1411

2.4 Star Slots

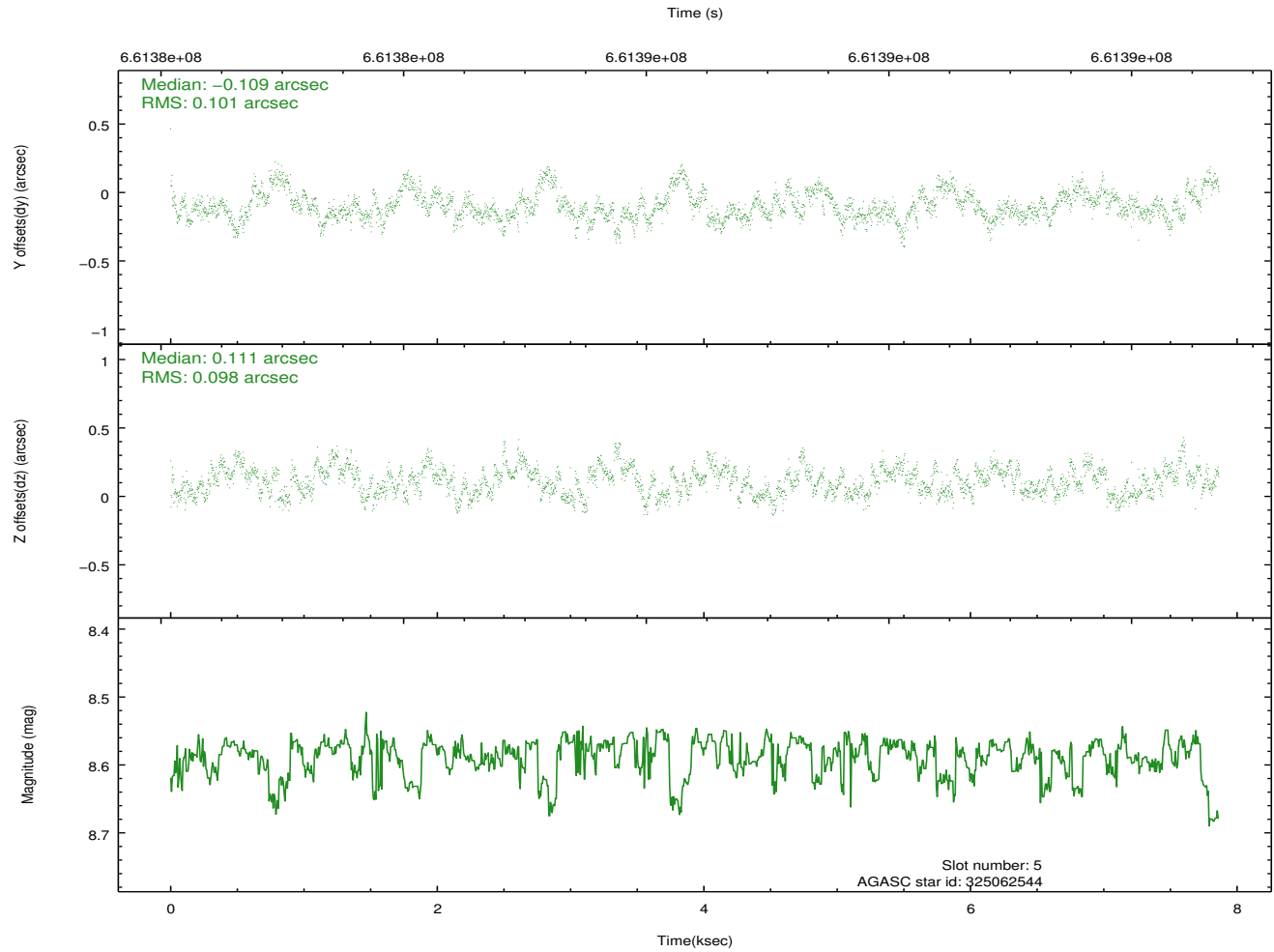
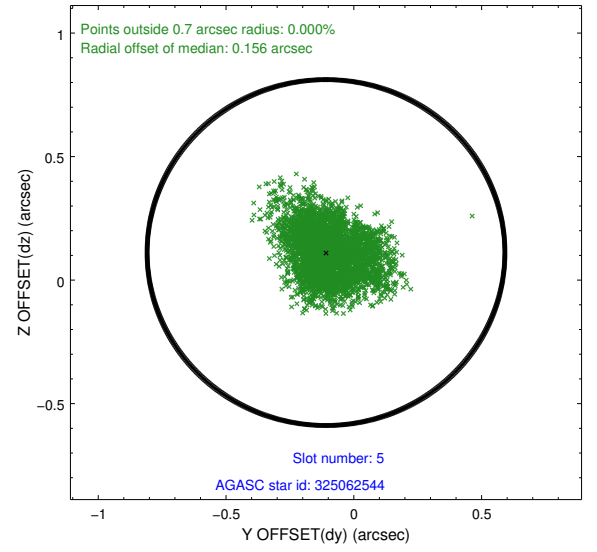
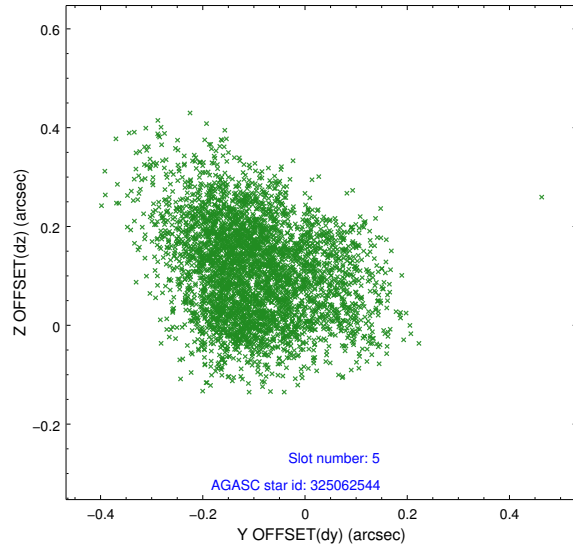
2.4.1 Slot 3



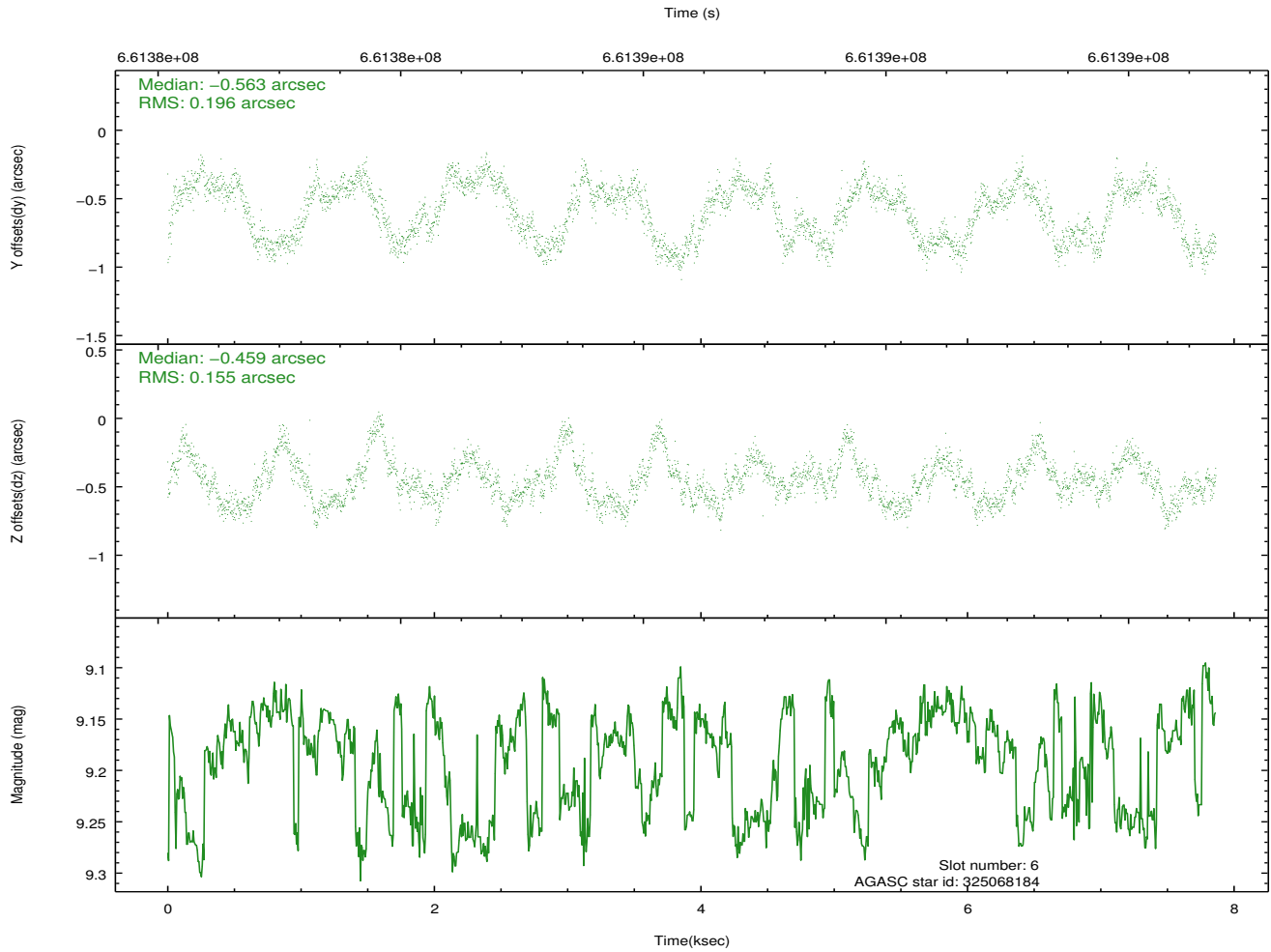
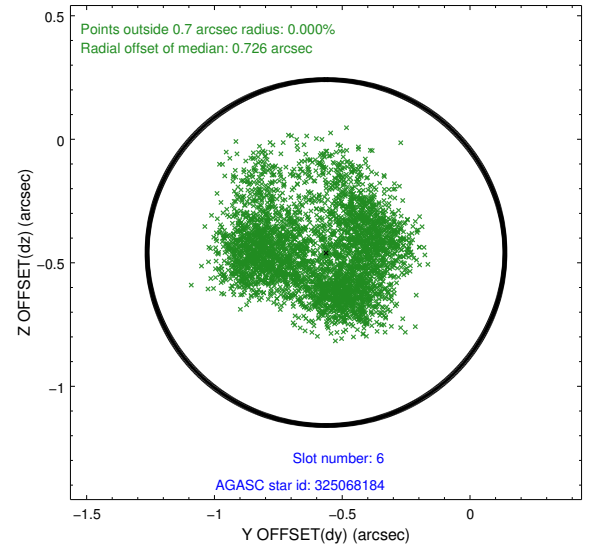
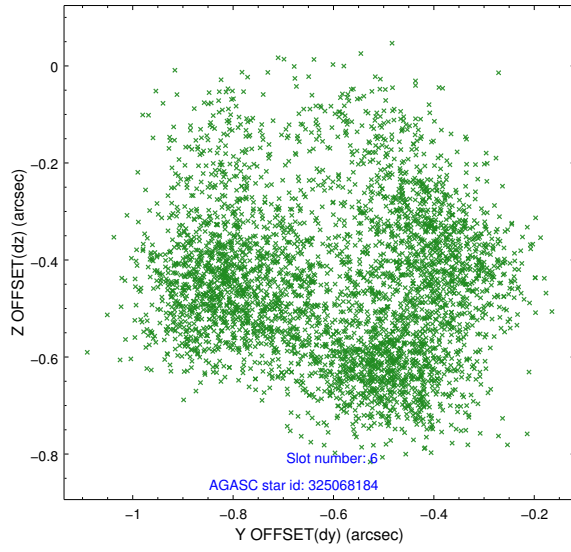
2.4.2 Slot 4



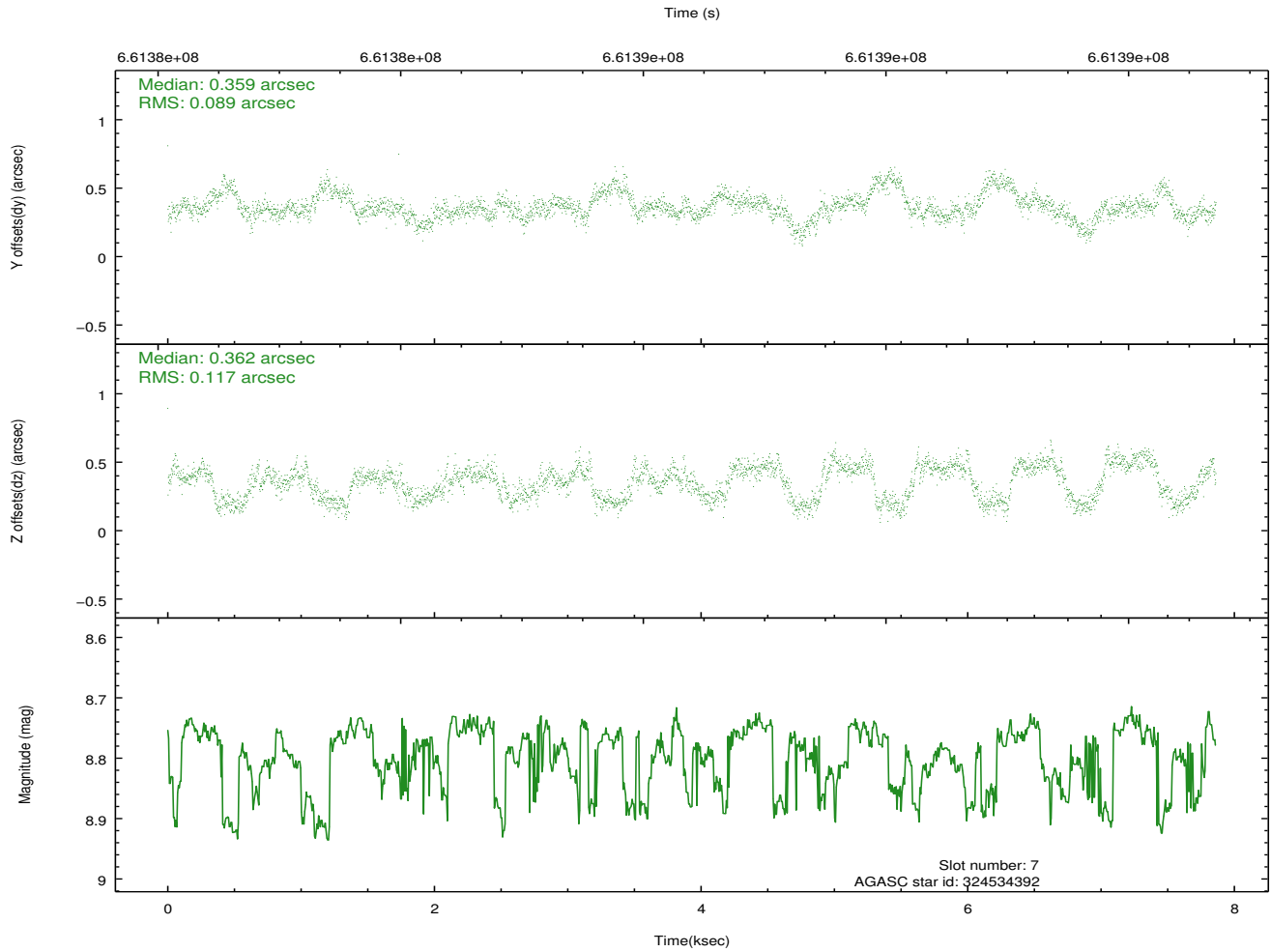
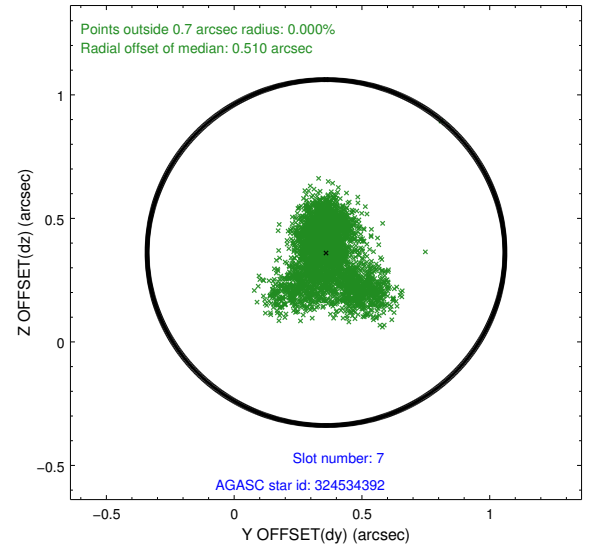
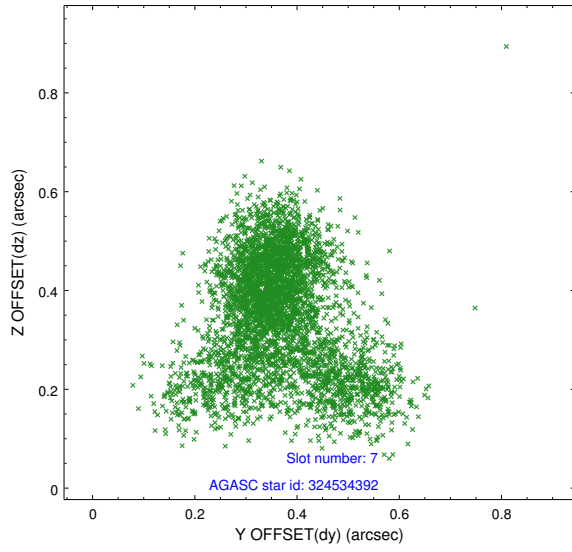
2.4.3 Slot 5



2.4.4 Slot 6

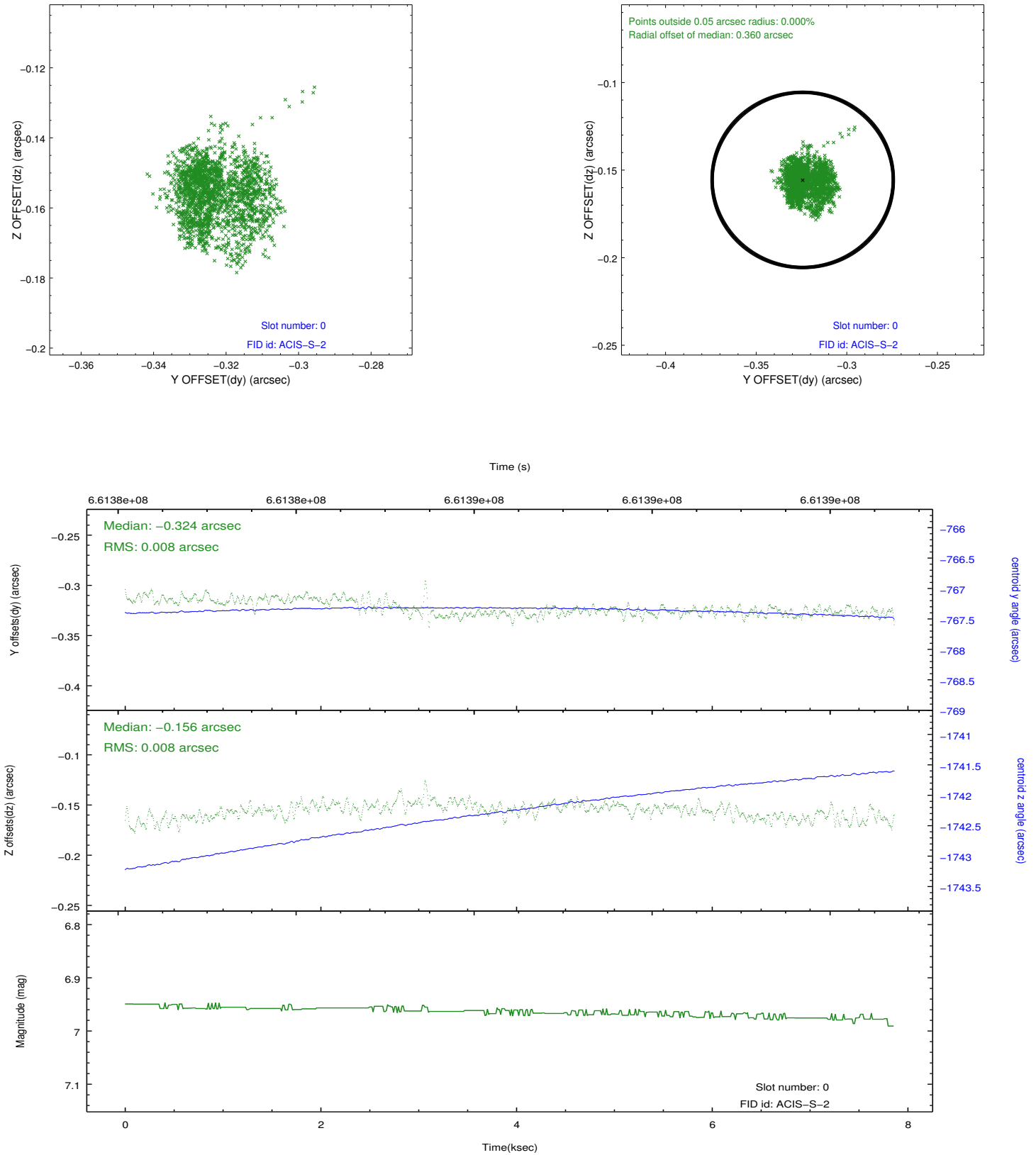


2.4.5 Slot 7

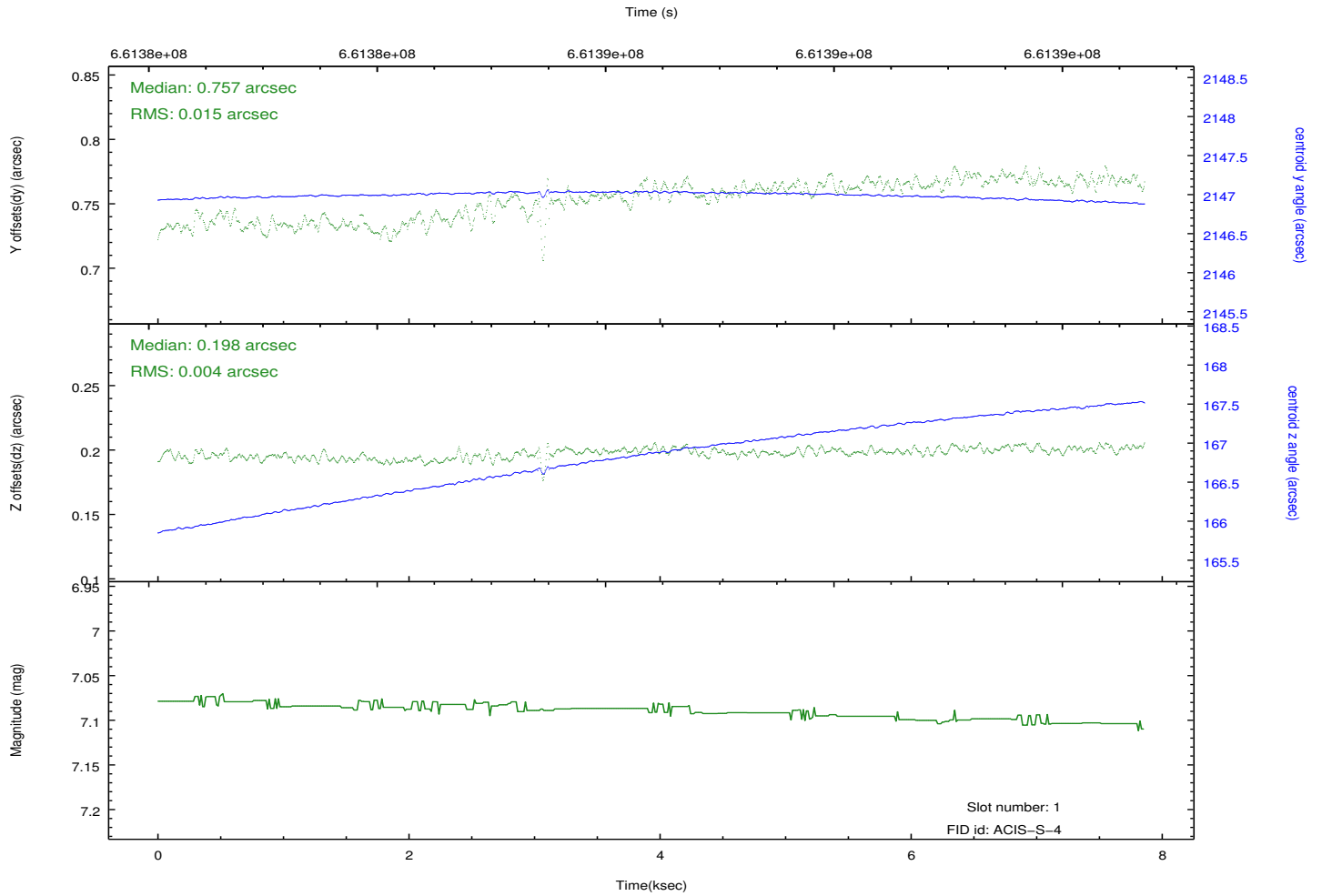
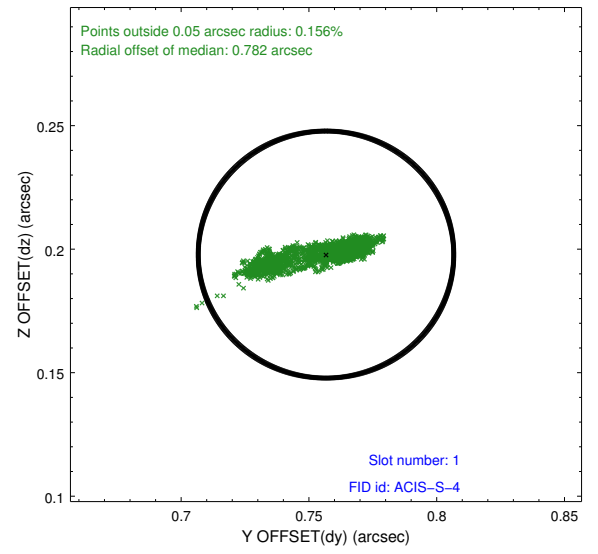
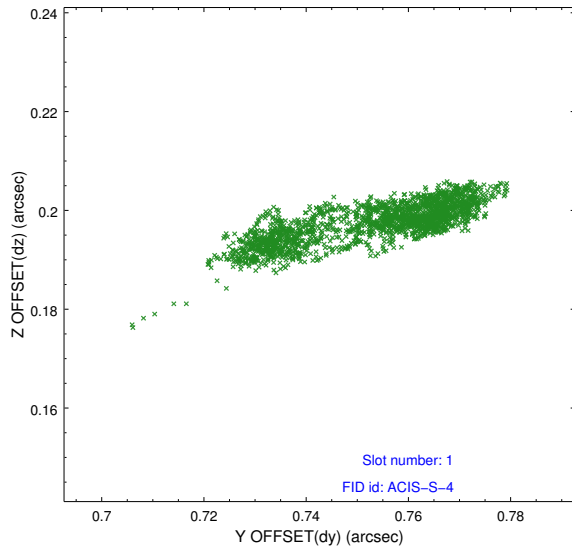


2.5 FID Slots

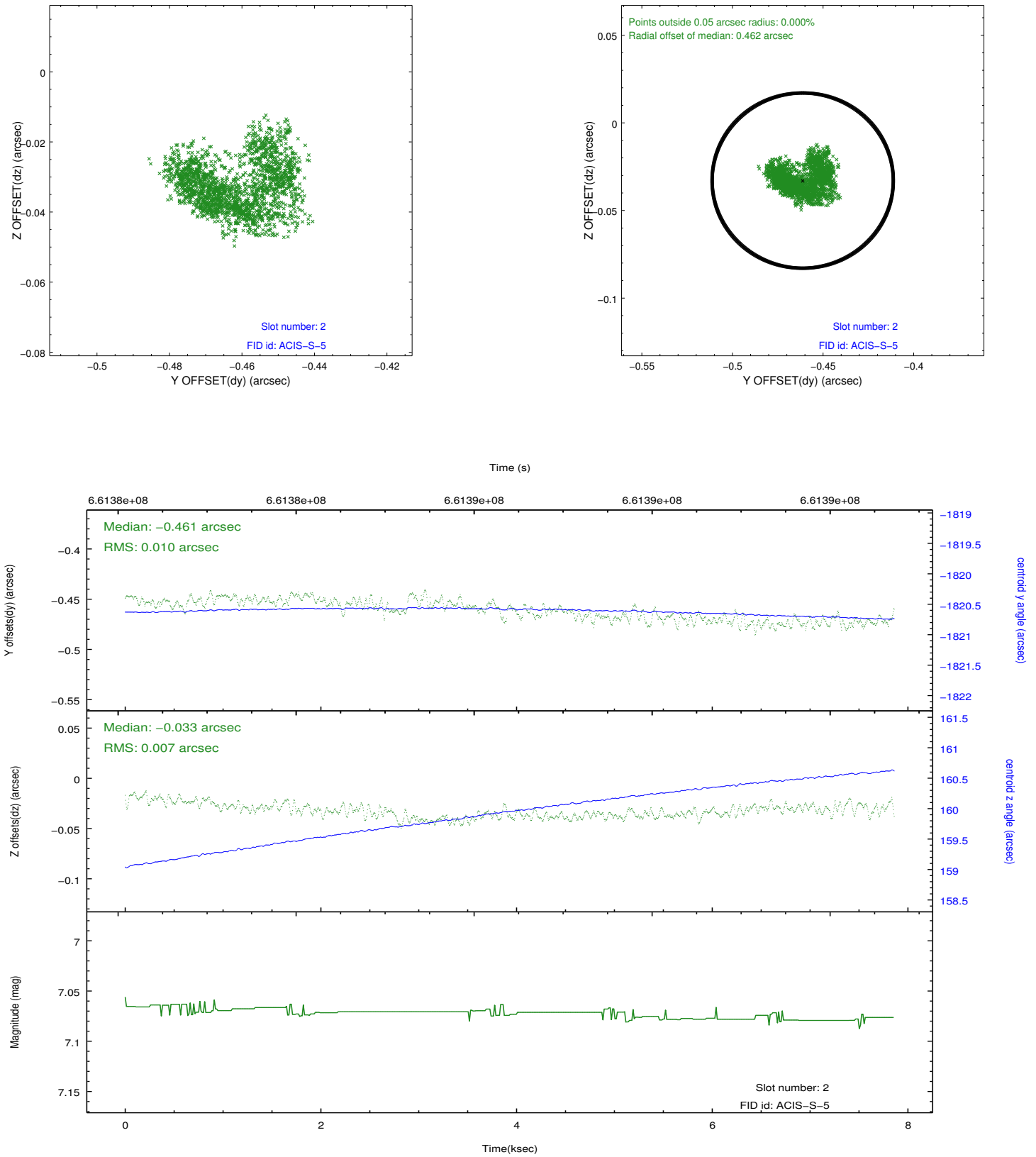
2.5.1 Slot 0



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)	2018.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8534003121853

A.2 Comments