

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6180 - L2 Version 4
Chandra X-Ray Center

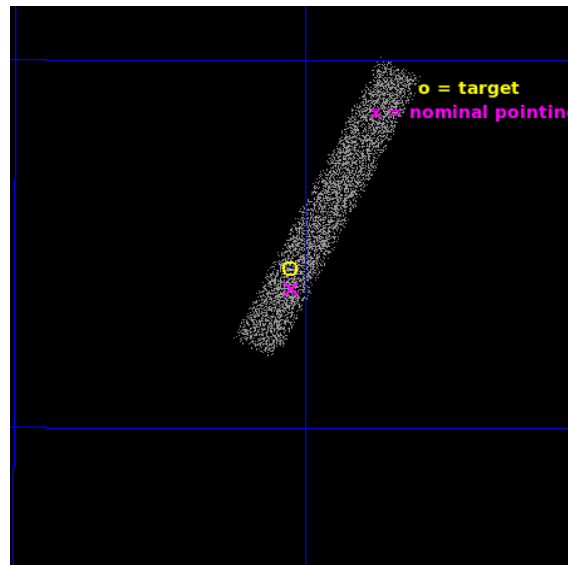
L2 Processing Date : Oct 6 2020

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1 Front

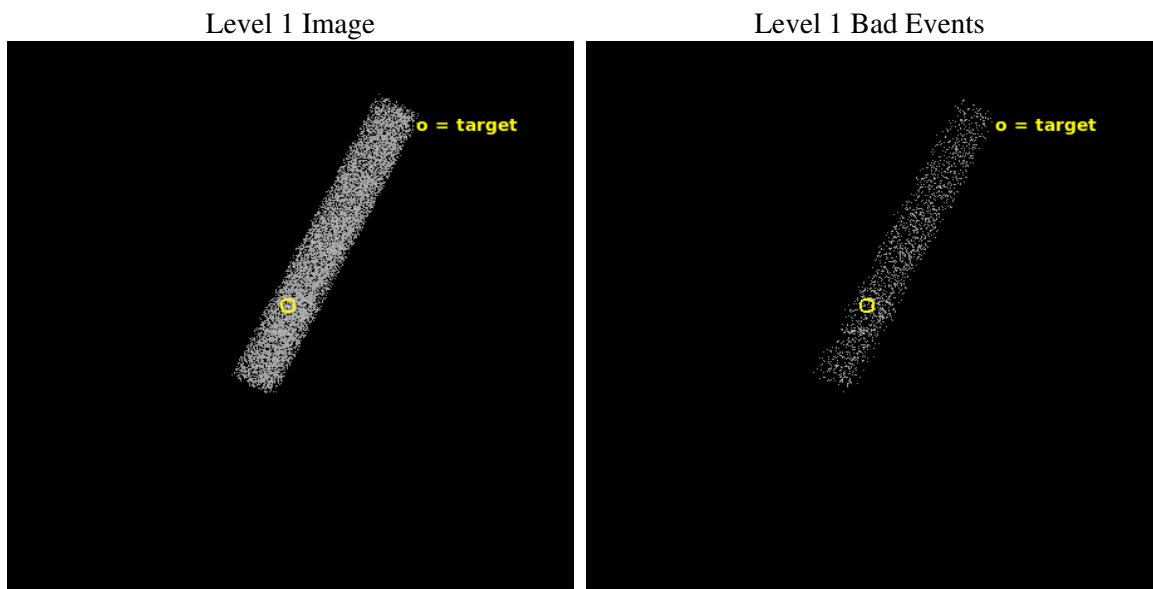
seq_num	400446	Sequence number
obs_id	6180	Observation id
title	Following the decay of the new accretion powered msec pulsar IGR J00291+5934	Proposal title
observer	Peter Jonker	Principal investigator
object	IGR J00291+5934	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	7.262917	Observer's specified target RA [deg]
dec_targ	59.571944	Observer's specified target Dec [deg]
ra_nom	7.2610074109826	Nominal RA [deg]
dec_nom	59.563033685263	Nominal Dec [deg]
roll_nom	296.56088554474	Nominal Roll [deg]
revision	4	Processing version of data
ontime	9894.3591273427	Sum of GTIs [s]
livetime	8973.6614614028	Livetime [s]
ontime7	9894.3591273427	Sum of GTIs [s]
l2events	5925	Number of level 2 events



2 OBI

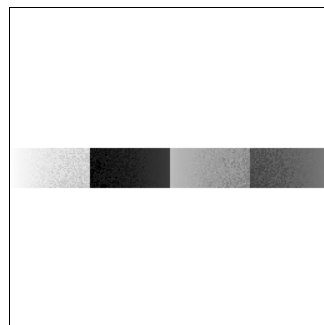
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9741.534000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	9894.3591273427	Sum of GTIs [s]
caldsver	4.9.2	 	ontime7	9894.3591273427	Sum of GTIs [s]
date	2020-10-06T04:05:46	Date and time of file creation	l1events	15005	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

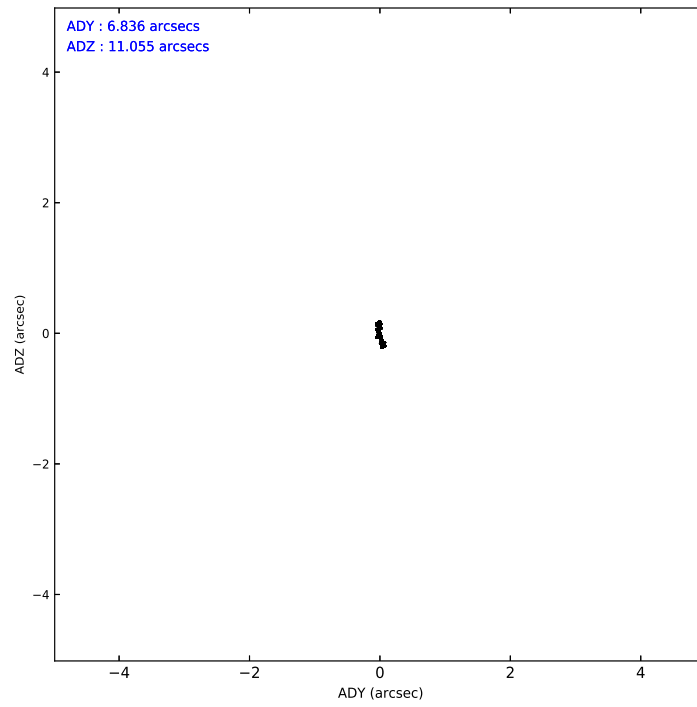
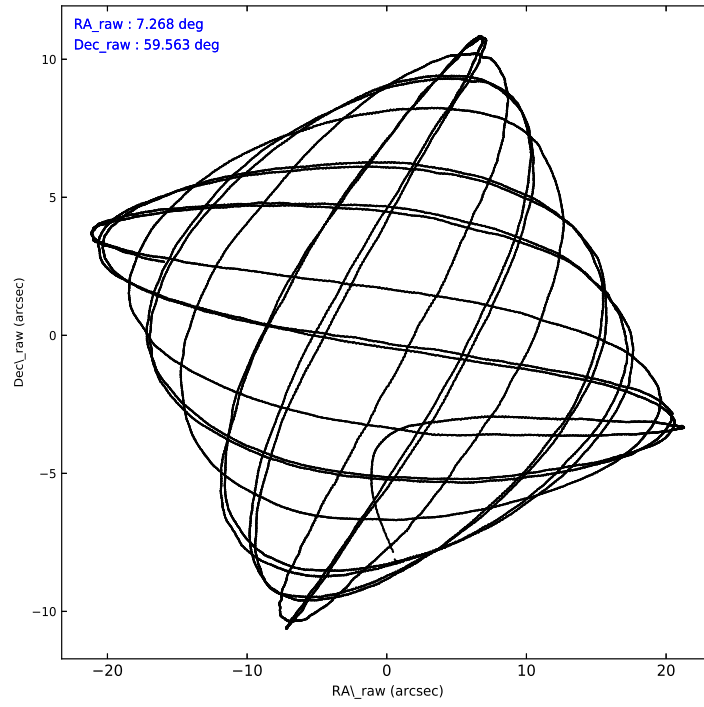
	ccd 7
level 1 events	15005
rejected events	8842
rejected %	58%

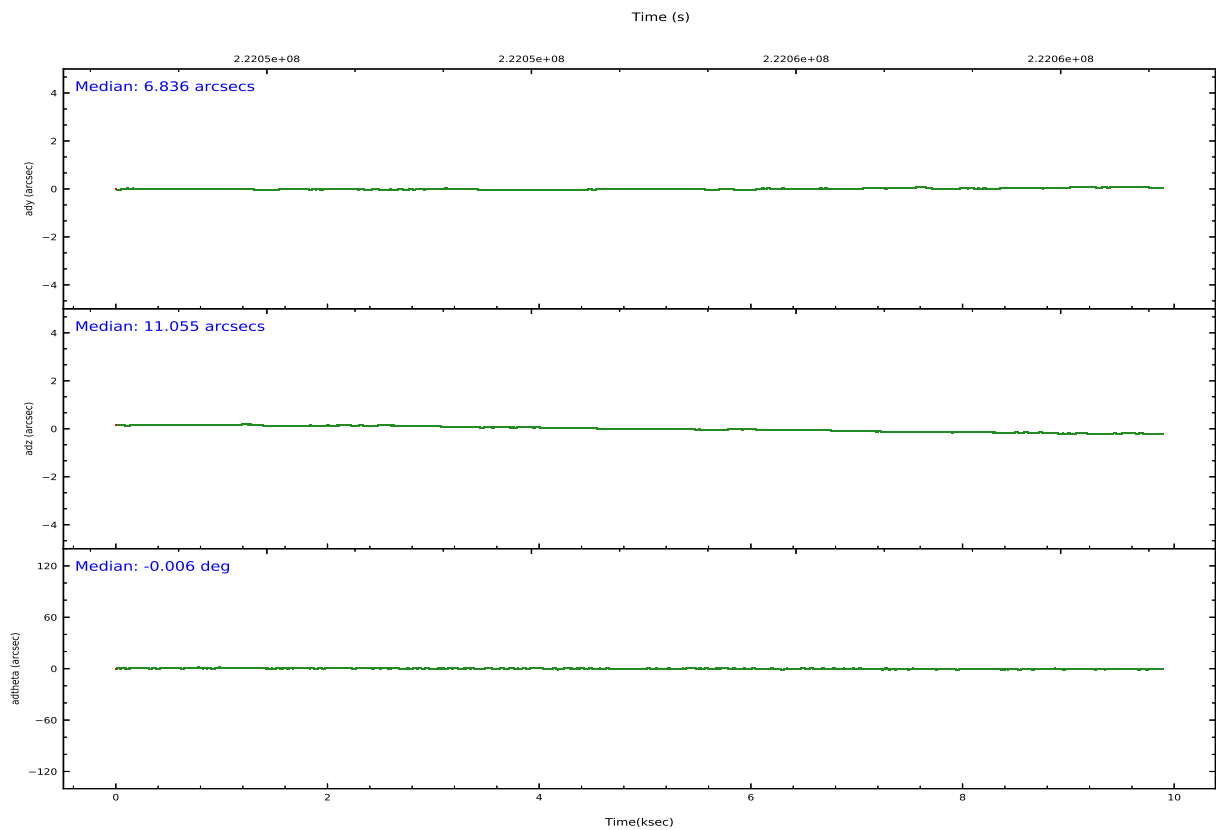
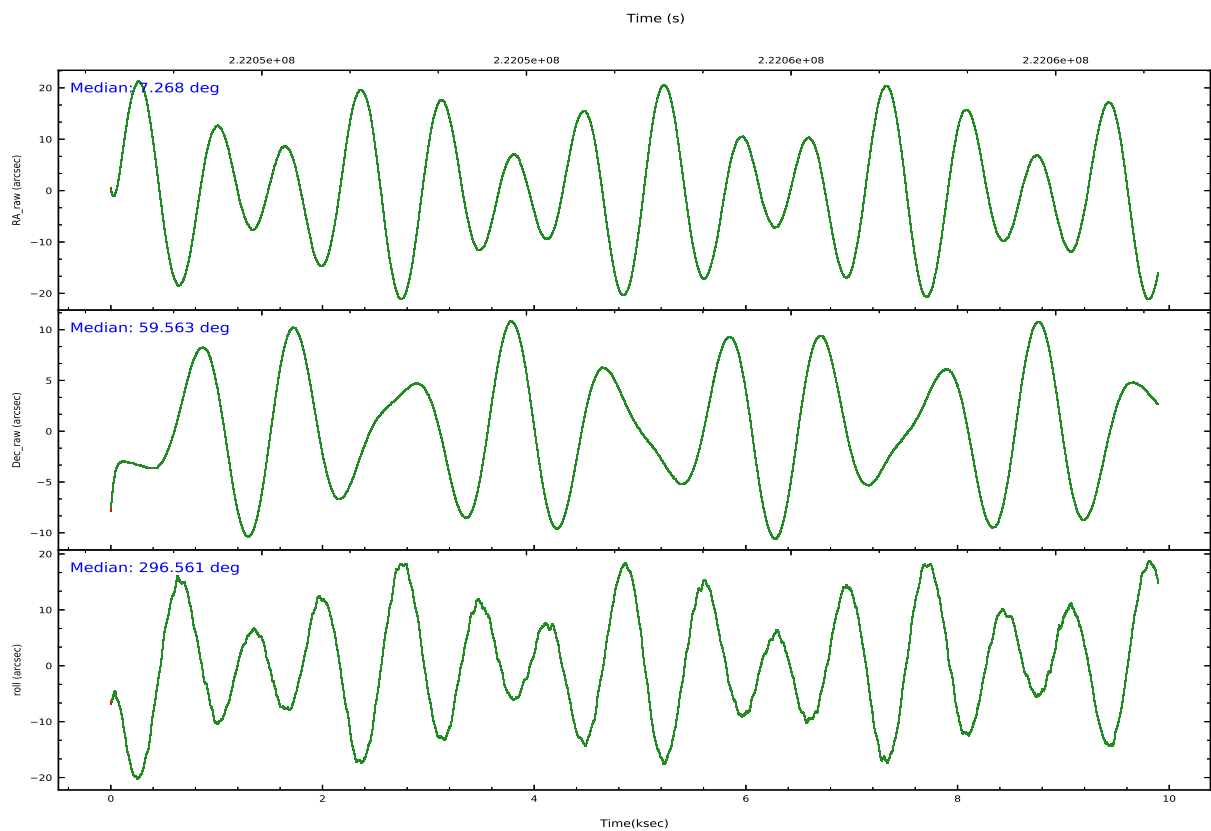
	ccd 7
grade 0 events	710
	4%
grade 1 events	20
	0%
grade 2 events	1291
	8%
grade 3 events	826
	5%
grade 4 events	857
	5%
grade 5 events	1412
	9%
grade 6 events	3135
	20%
grade 7 events	6754
	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	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	7.223068	7.2610074109826	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	59.577349	59.563033685263	Subarray start row	449	449
[deg] Pointing Roll	296.441645	296.56088554474	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	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	222048727.184000	222047581.05012			
Observation start date	2005-01-14T00:11:03	2005-01-13T23:53:01			
[s] Observation end time (MET)	222058468.184000	222058696.15062			
Observation end date	2005-01-14T02:53:24	2005-01-14T02:58:16			
Read mode	TIMED	TIMED			

2.3 Aspect



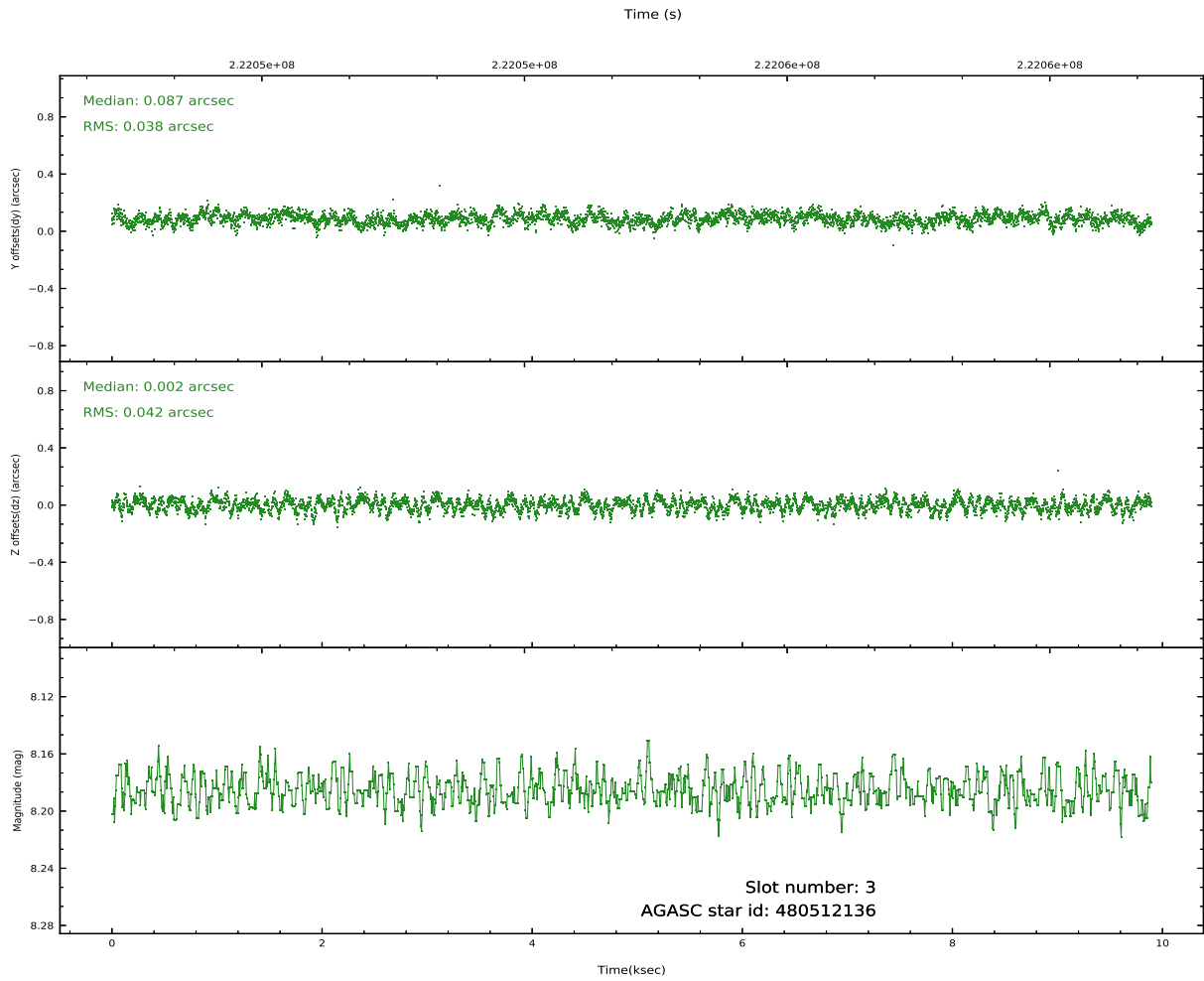
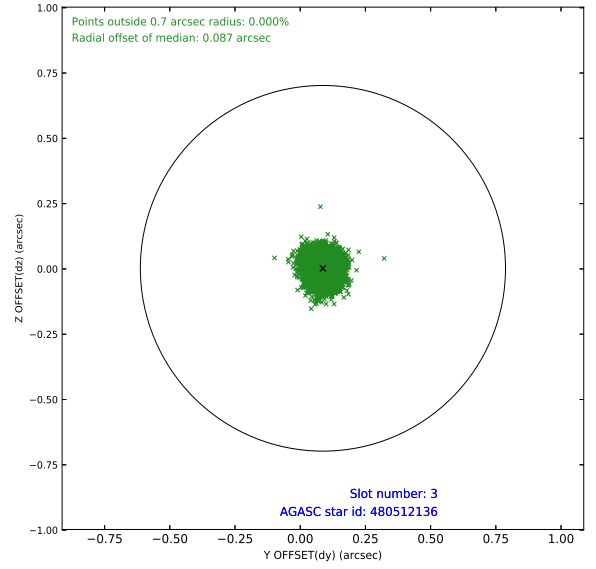
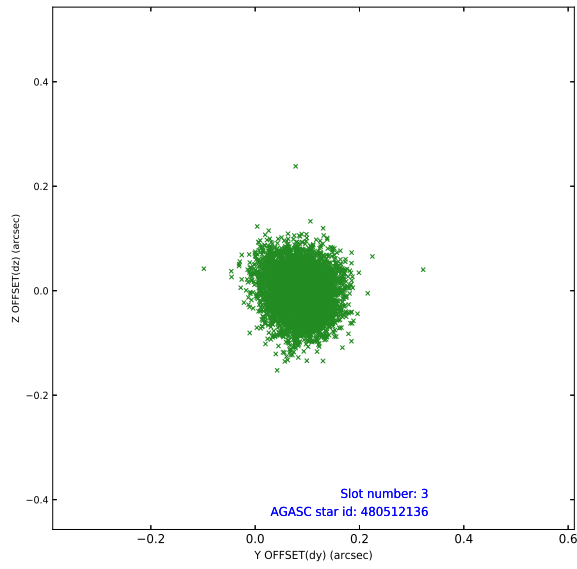


Slot Statistics

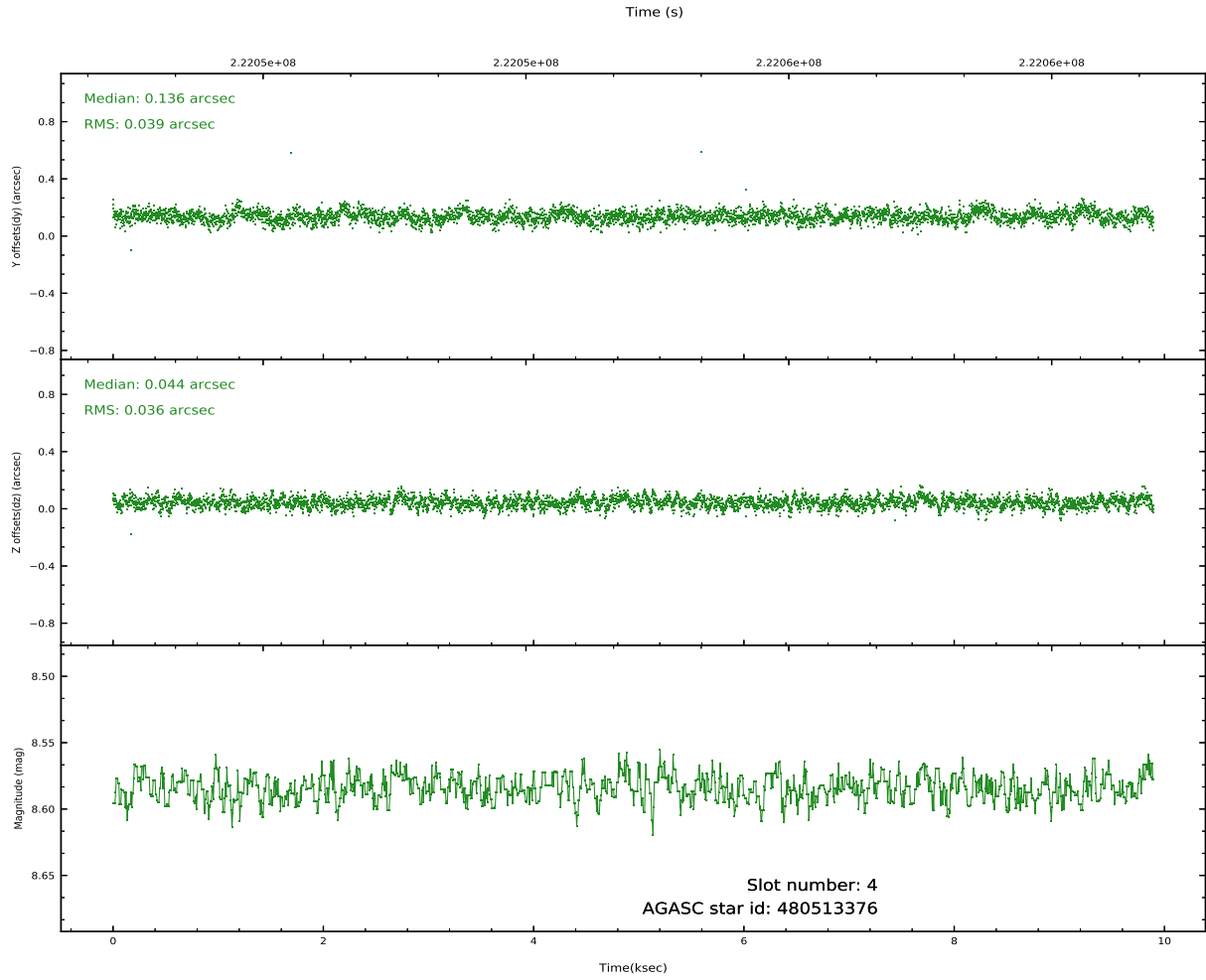
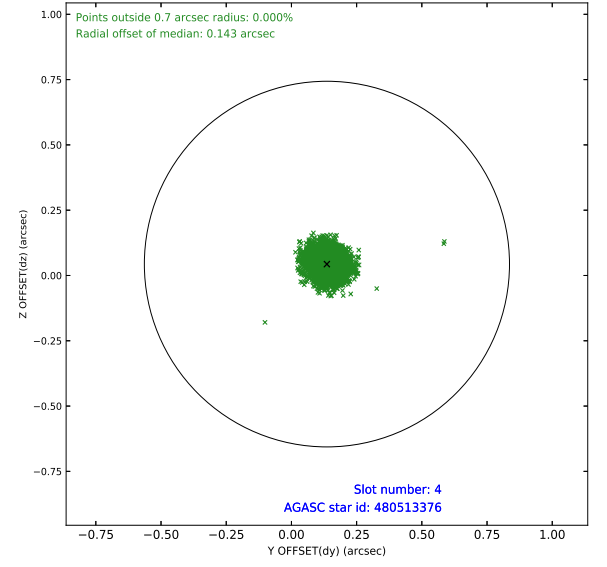
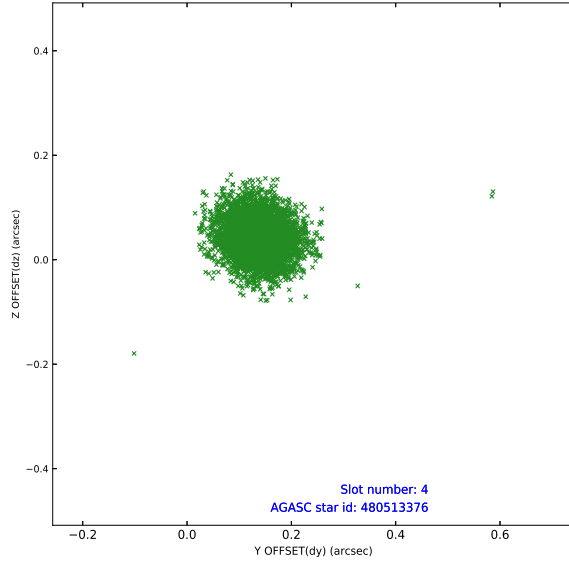
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2414	1.000	-0.080	-0.050	0.007	0.012	0.000000	0.000000	-759.61	-1732
1	FID		ACIS-S-4	7.20	2414	1.000	0.136	0.052	0.006	0.012	0.000000	0.000000	2153.58	175
2	FID		ACIS-S-5	7.23	2414	1.000	-0.087	0.007	0.007	0.011	0.000000	0.000000	-1811.83	169
3	GUIDE	used	480512136	8.19	4828	1.000	0.087	0.002	0.061	0.096	7.475231	59.254866	1245.98	-101
4	GUIDE	used	480513376	8.58	4828	1.000	0.136	0.044	0.055	0.091	7.508901	59.105688	1755.40	-282
5	GUIDE	used	480518848	8.91	4826	1.000	0.179	0.157	0.068	0.109	8.820863	59.312277	2130.60	2219
6	GUIDE	used	480379256	9.01	4827	1.000	-0.249	-0.253	0.103	0.167	5.631259	59.673209	-1627.71	-2421
7	GUIDE	used	526276608	8.59	4827	1.000	-0.154	0.045	0.068	0.111	7.524994	60.151139	-1610.16	1404

2.4 Star Slots

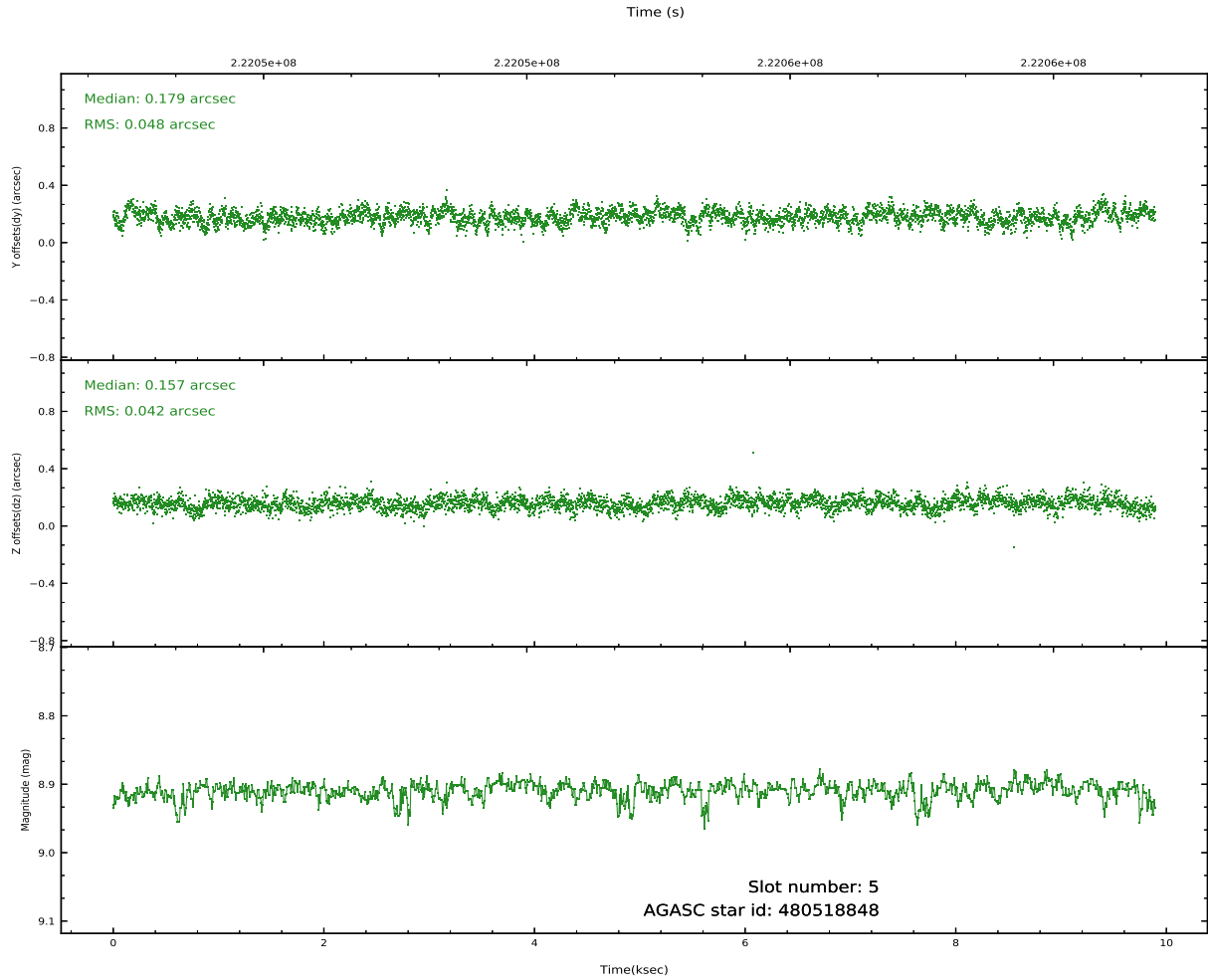
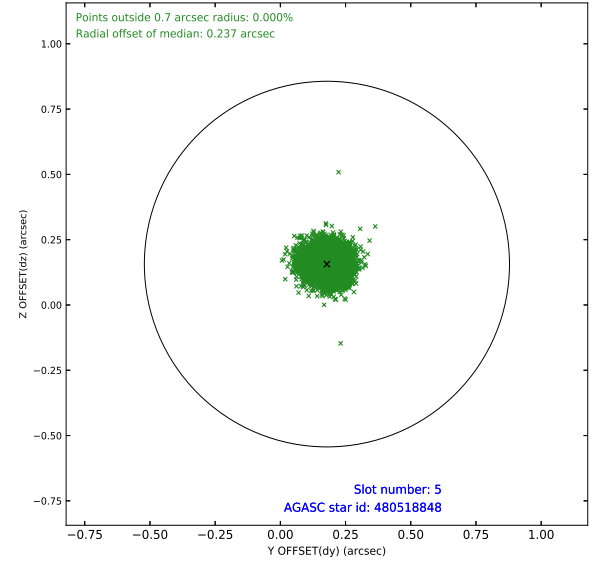
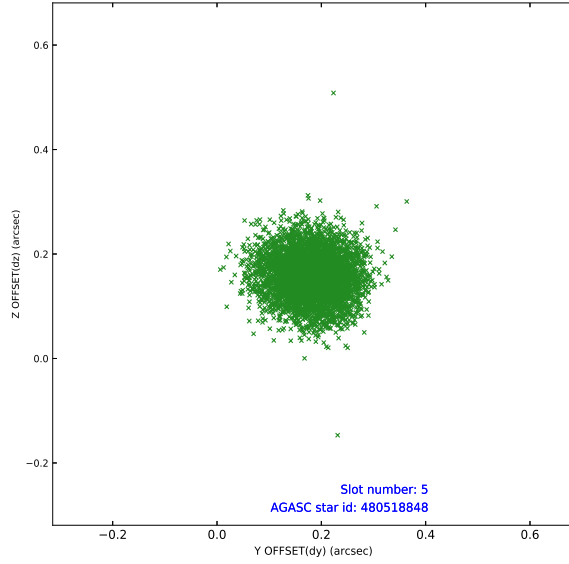
2.4.1 Slot 3



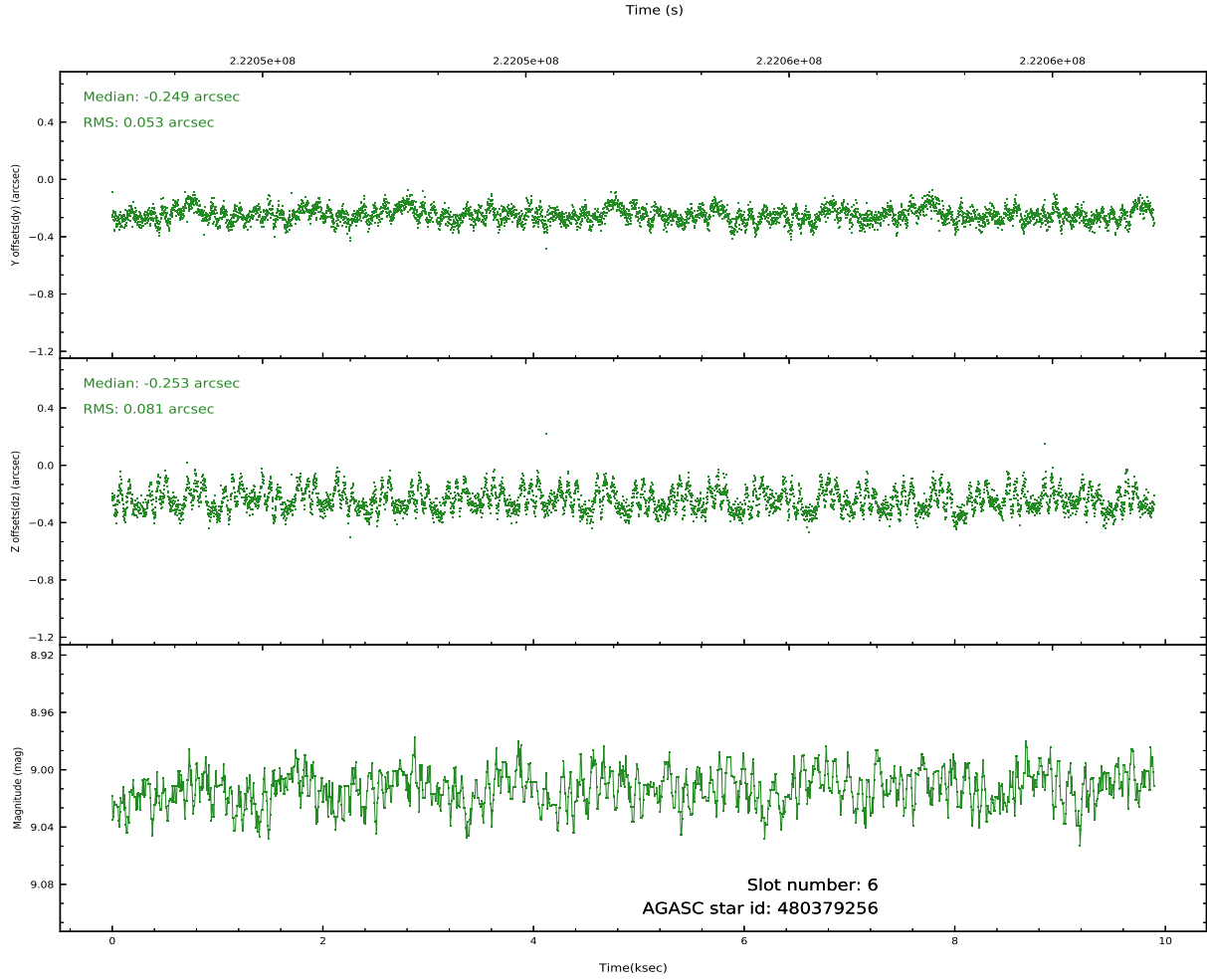
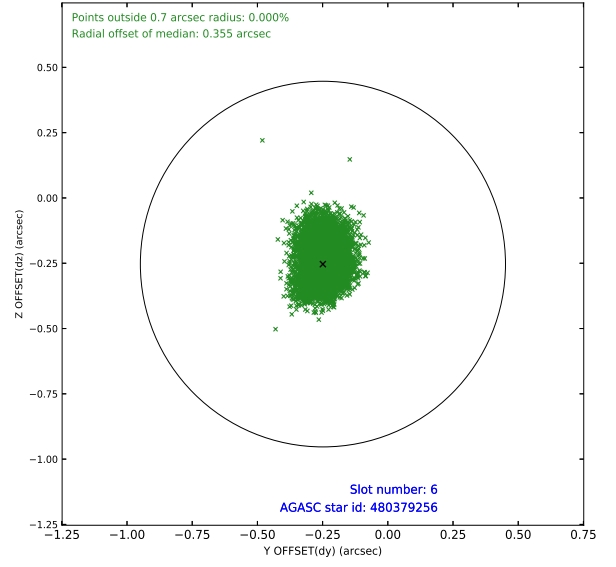
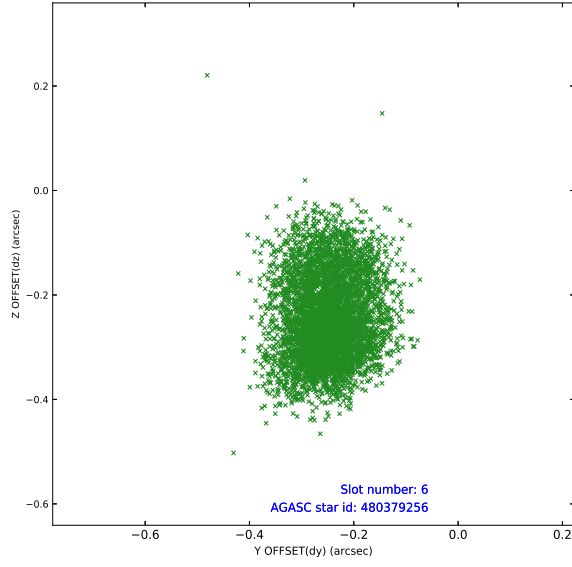
2.4.2 Slot 4



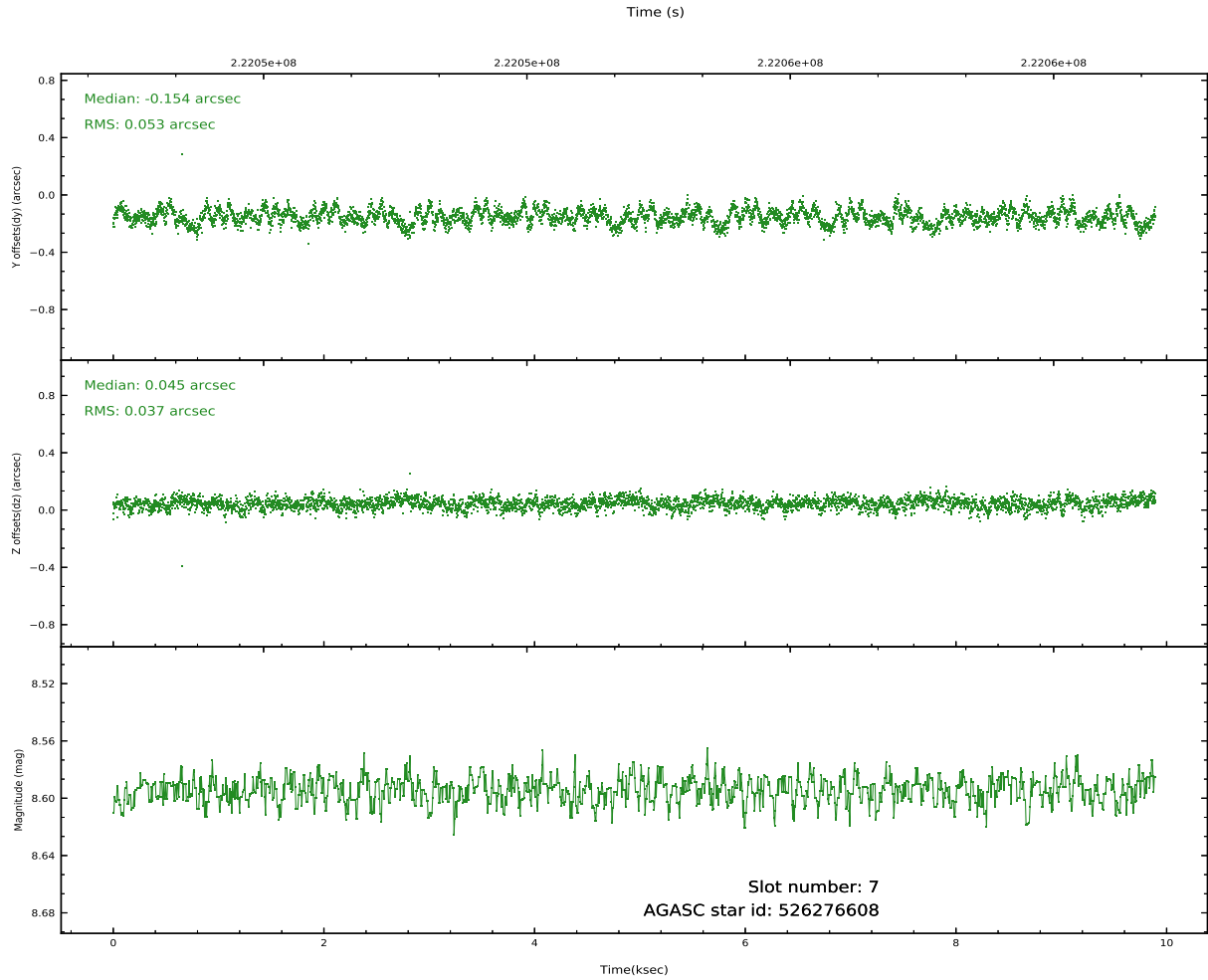
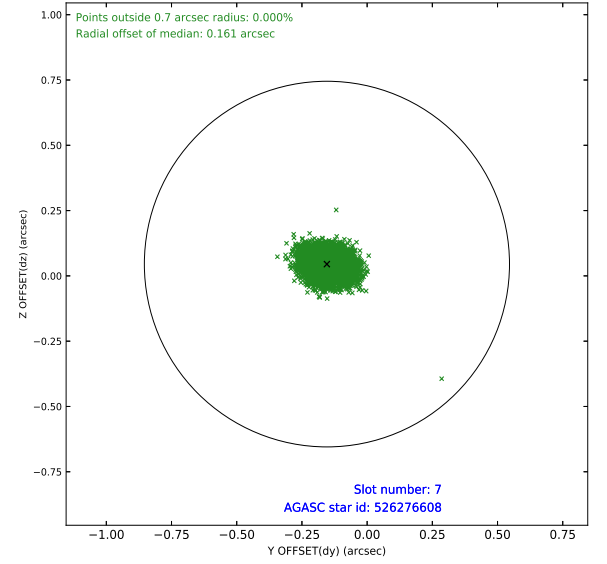
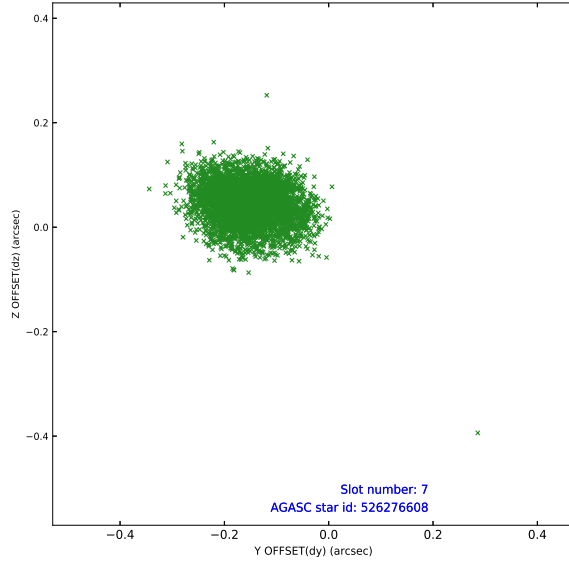
2.4.3 Slot 5



2.4.4 Slot 6

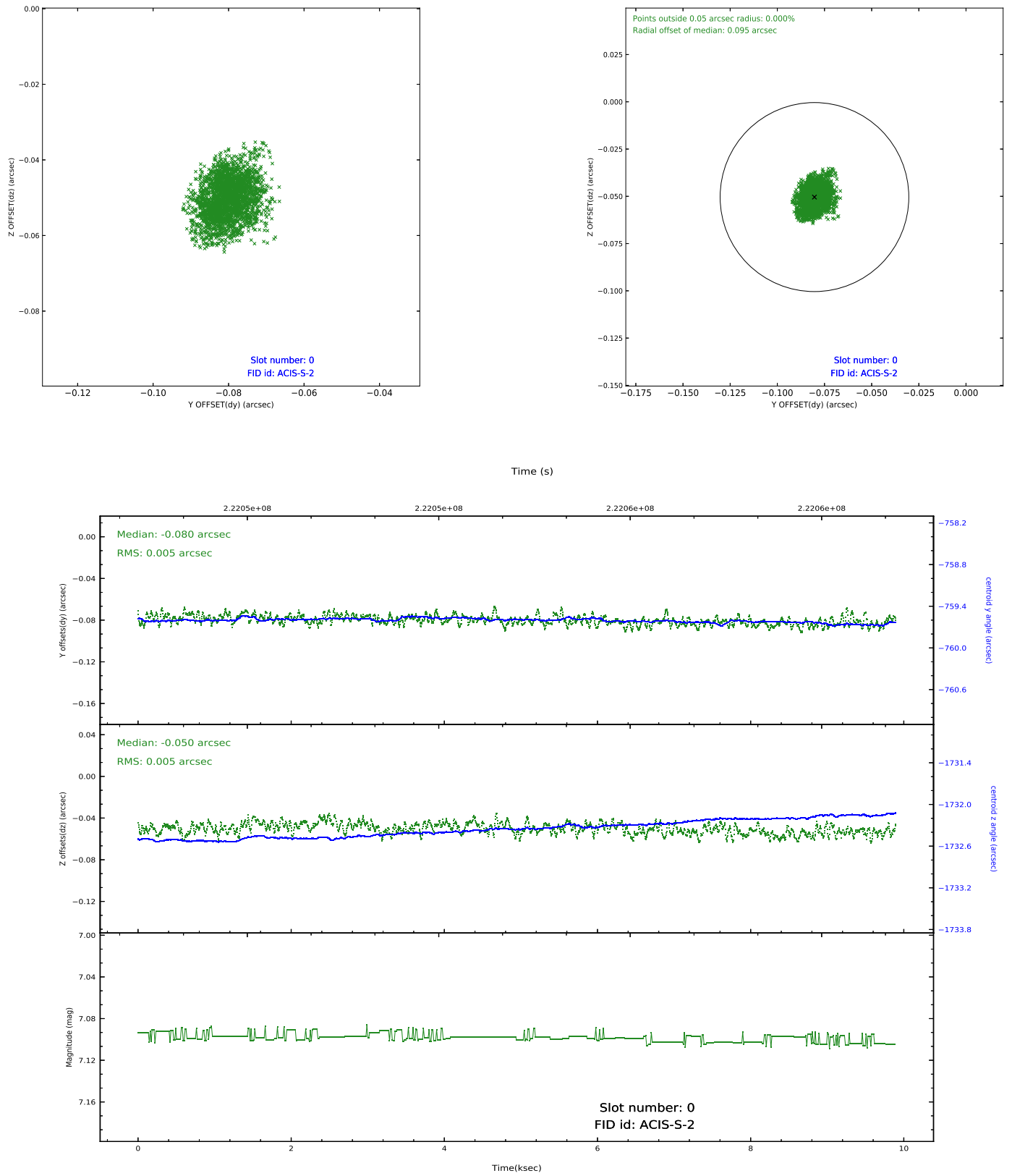


2.4.5 Slot 7

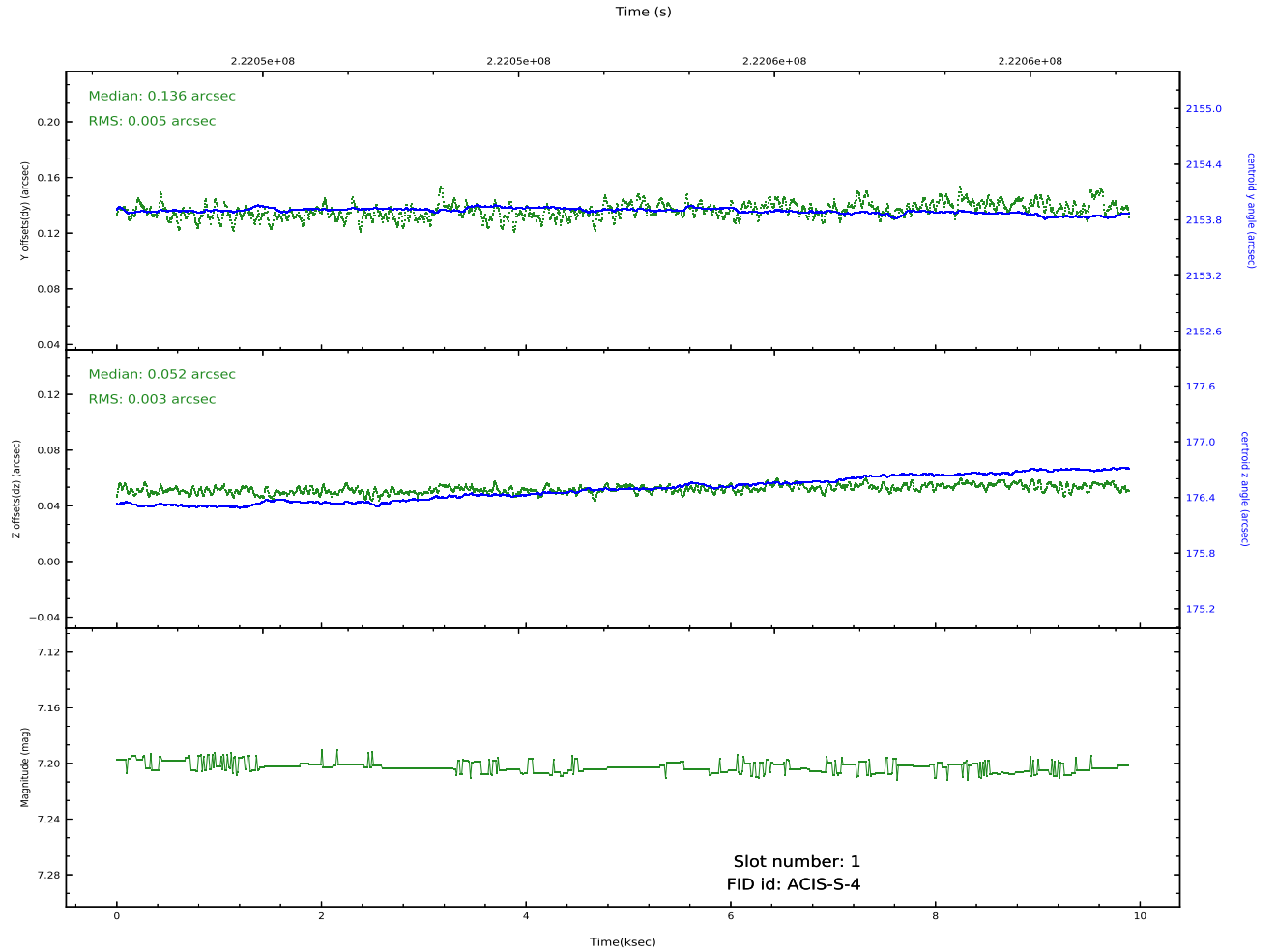
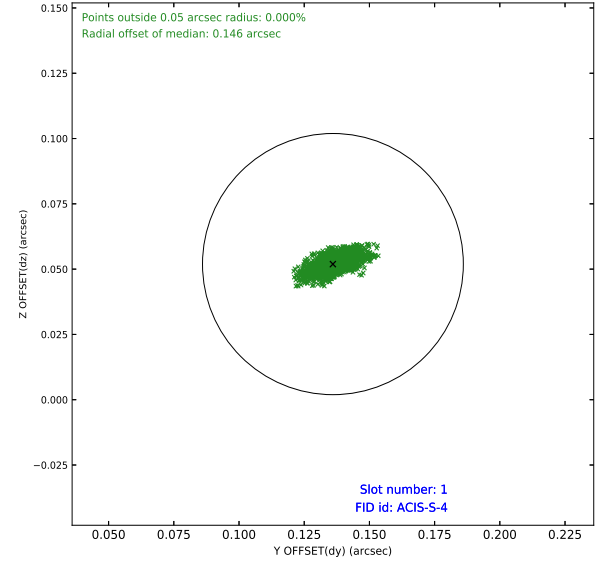
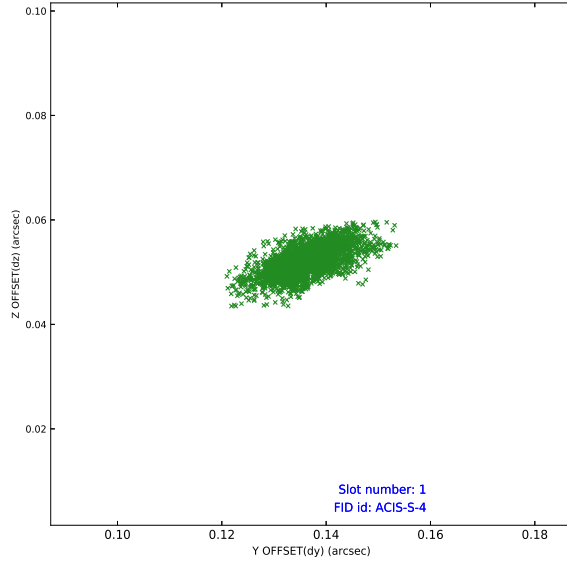


2.5 FID Slots

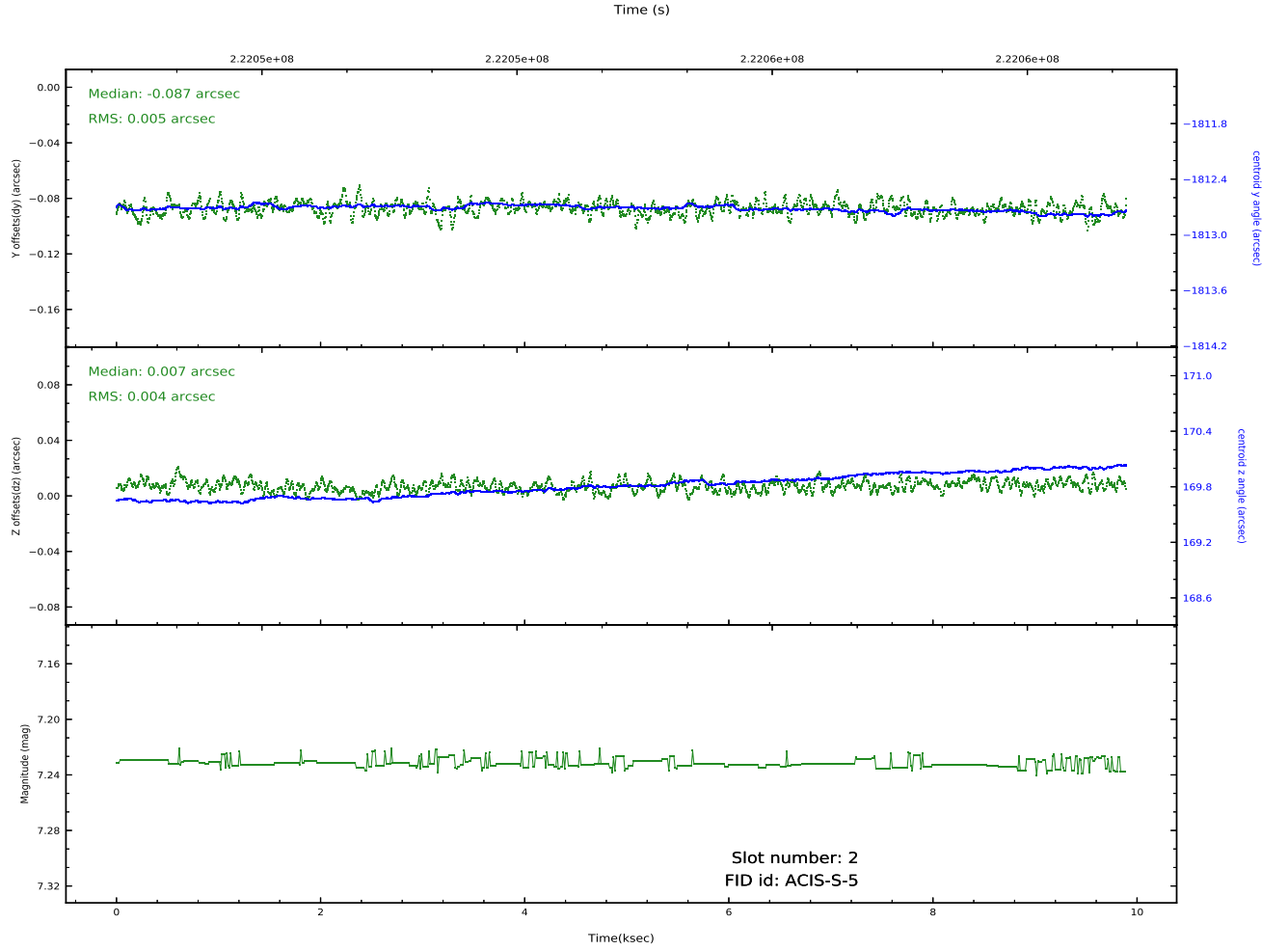
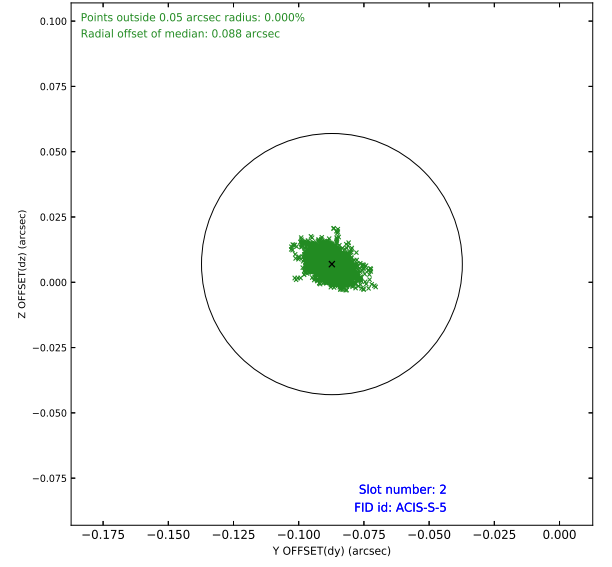
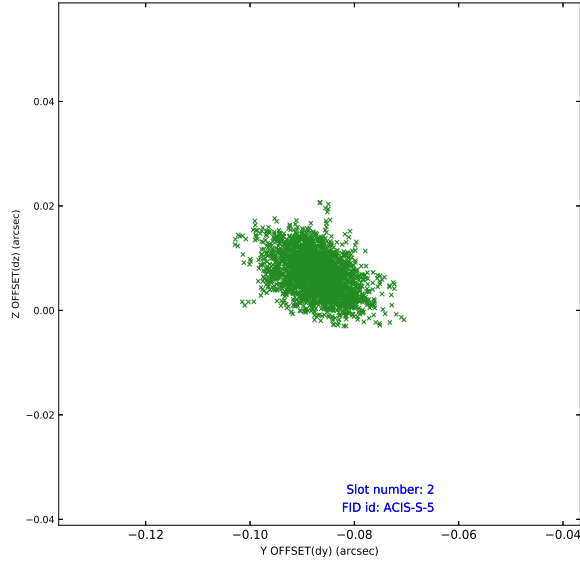
2.5.1 Slot 0



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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.894359

A.2 Comments