

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20352 - L2 Version 2
Chandra X-Ray Center

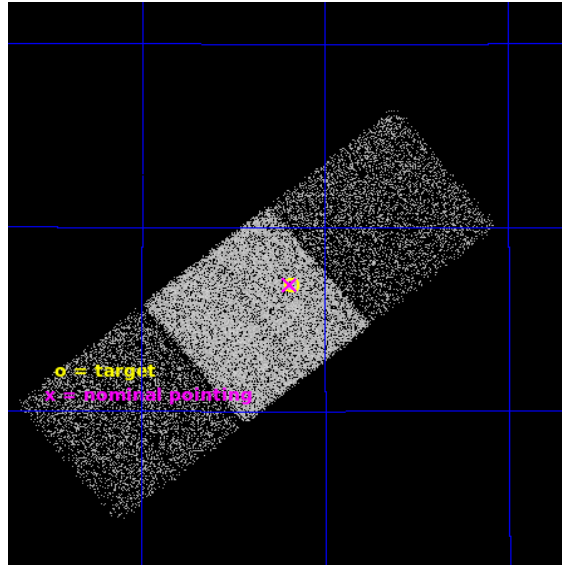
L2 Processing Date : Oct 24 2020

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1 Front

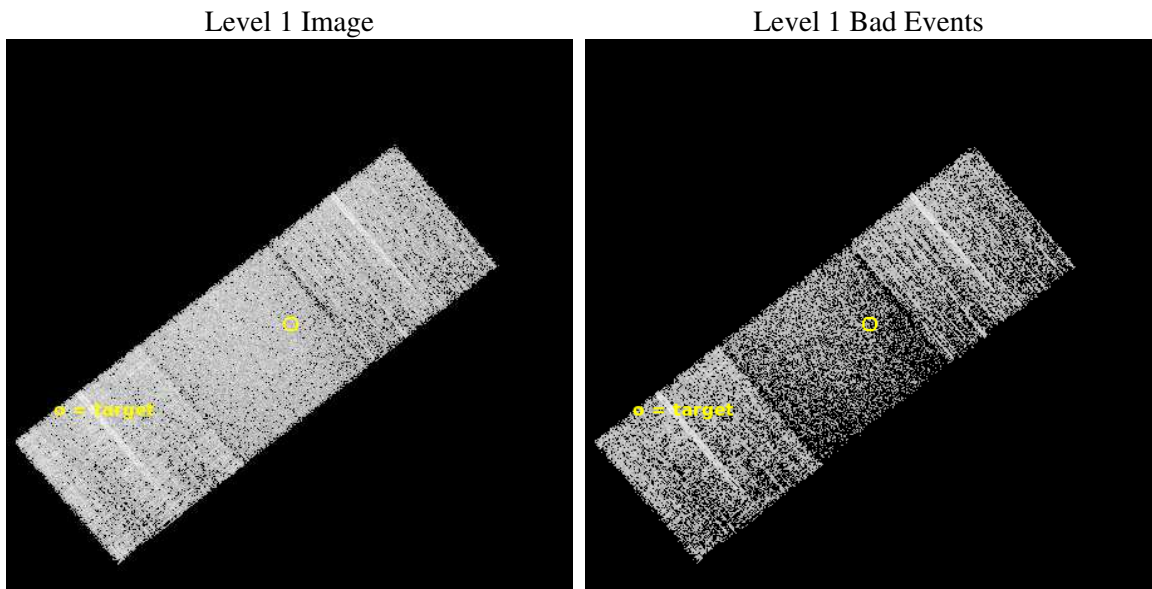
seq_num	601418	Sequence number
obs_id	20352	Observation id
title	X-ray Ionized Nebulae in Nearby Dwarf Galaxies	Proposal title
observer	Richard Plotkin	Principal investigator
object	SDSS J105310.82+501653.2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	163.295	Observer's specified target RA [deg]
dec_targ	50.281444	Observer's specified target Dec [deg]
ra_nom	163.29775930292	Nominal RA [deg]
dec_nom	50.281535416947	Nominal Dec [deg]
roll_nom	140.78903344297	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8075.2346670628	Sum of GTIs [s]
livetime	7969.7257812363	Livetime [s]
ontime6	8072.0525468588	Sum of GTIs [s]
ontime7	8075.2346670628	Sum of GTIs [s]
ontime8	8072.0114967823	Sum of GTIs [s]
l2events	37805	Number of level 2 events



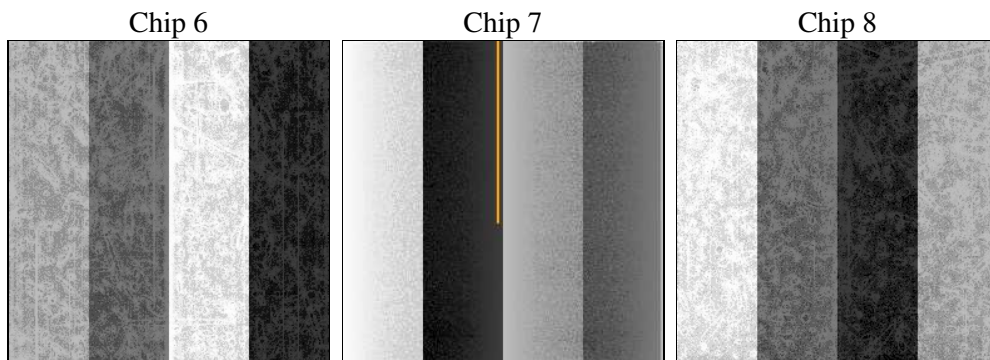
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	8075.2346670628	Sum of GTIs [s]
caldbver	4.9.3	 	ontime6	8072.0525468588	Sum of GTIs [s]
date	2020-10-24T14:37:34	Date and time of file creation	ontime7	8075.2346670628	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	8072.0114967823	Sum of GTIs [s]
			l1events	187216	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	56809	60406	70001
rejected events	50781	32234	51348
rejected %	89%	53%	73%

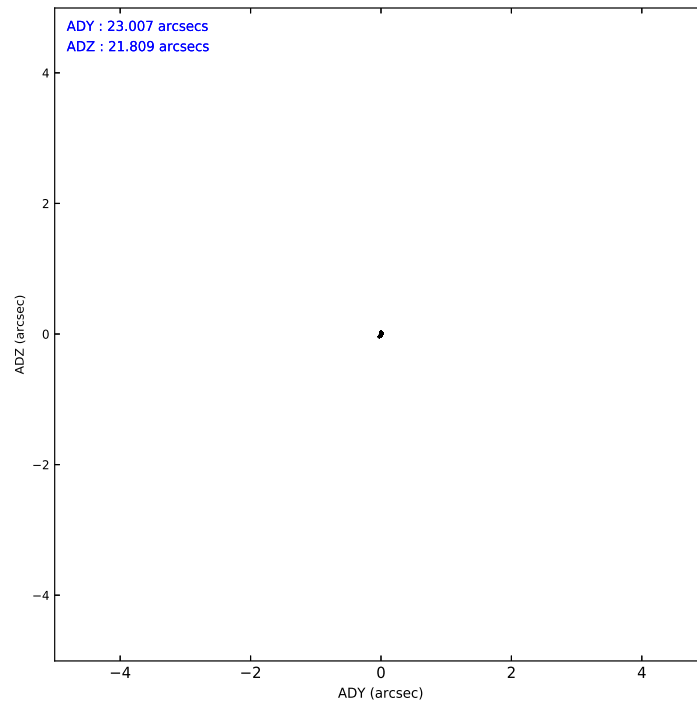
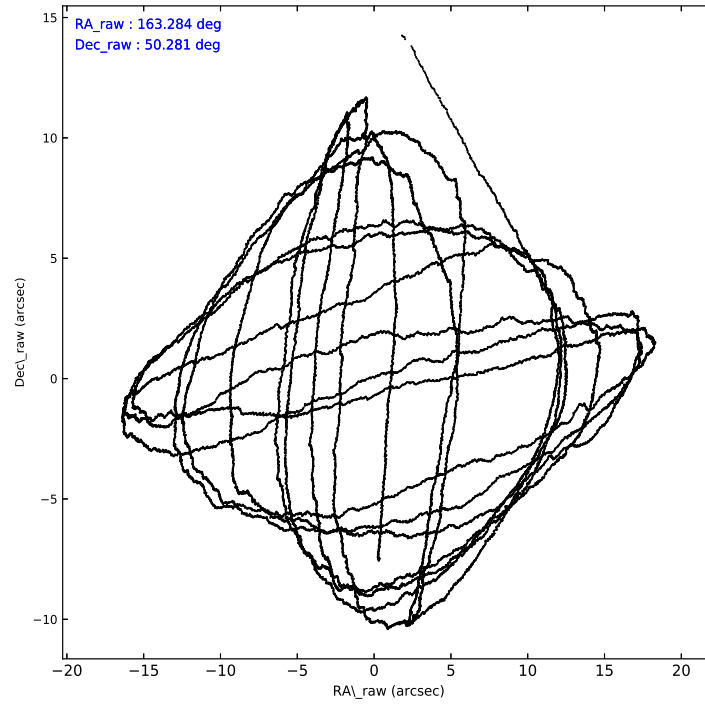
	ccd 6	ccd 7	ccd 8
grade 0 events	1809	2580	5196
	3%	4%	7%
grade 1 events	24	113	45
	0%	0%	0%
grade 2 events	1630	5975	4543
	2%	9%	6%
grade 3 events	532	2357	1933
	0%	3%	2%
grade 4 events	510	2306	1884
	0%	3%	2%
grade 5 events	1999	6137	3408
	3%	10%	4%
grade 6 events	1547	14964	5102
	2%	24%	7%
grade 7 events	48758	25974	47890
	85%	42%	68%

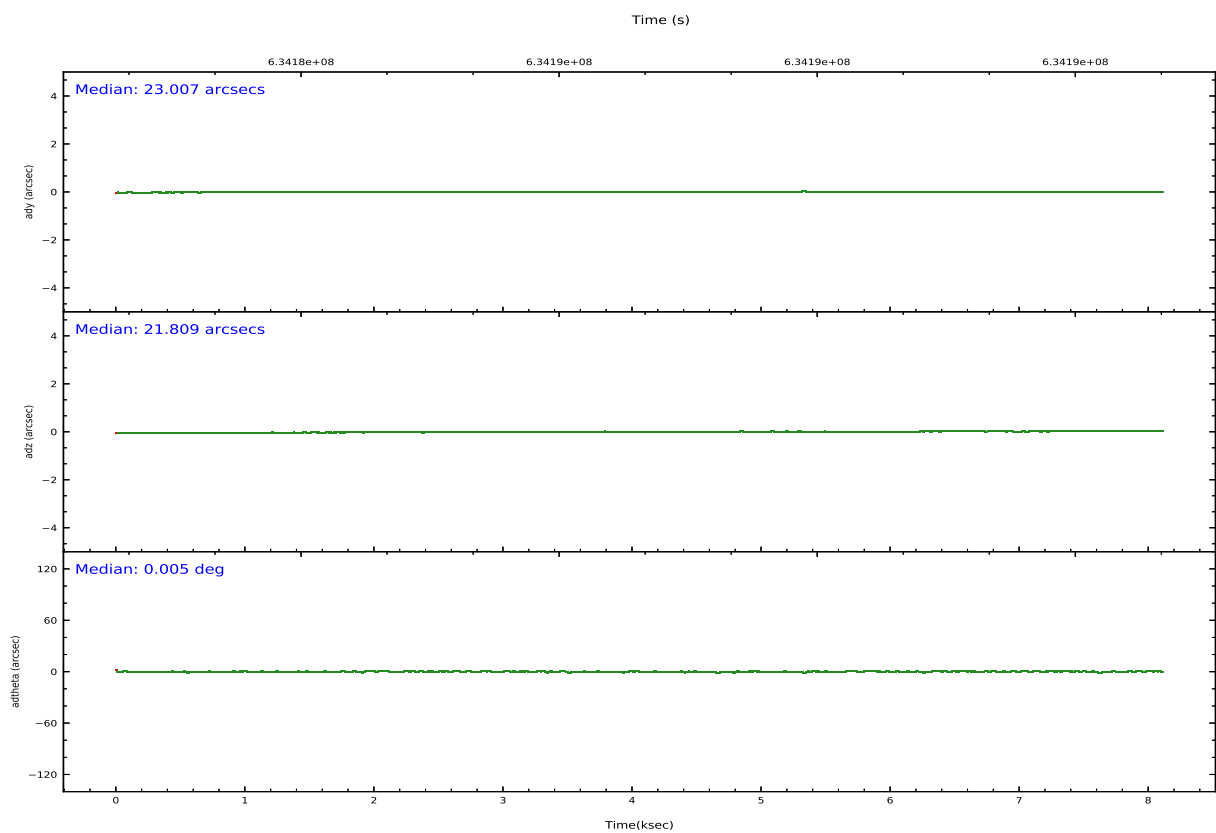
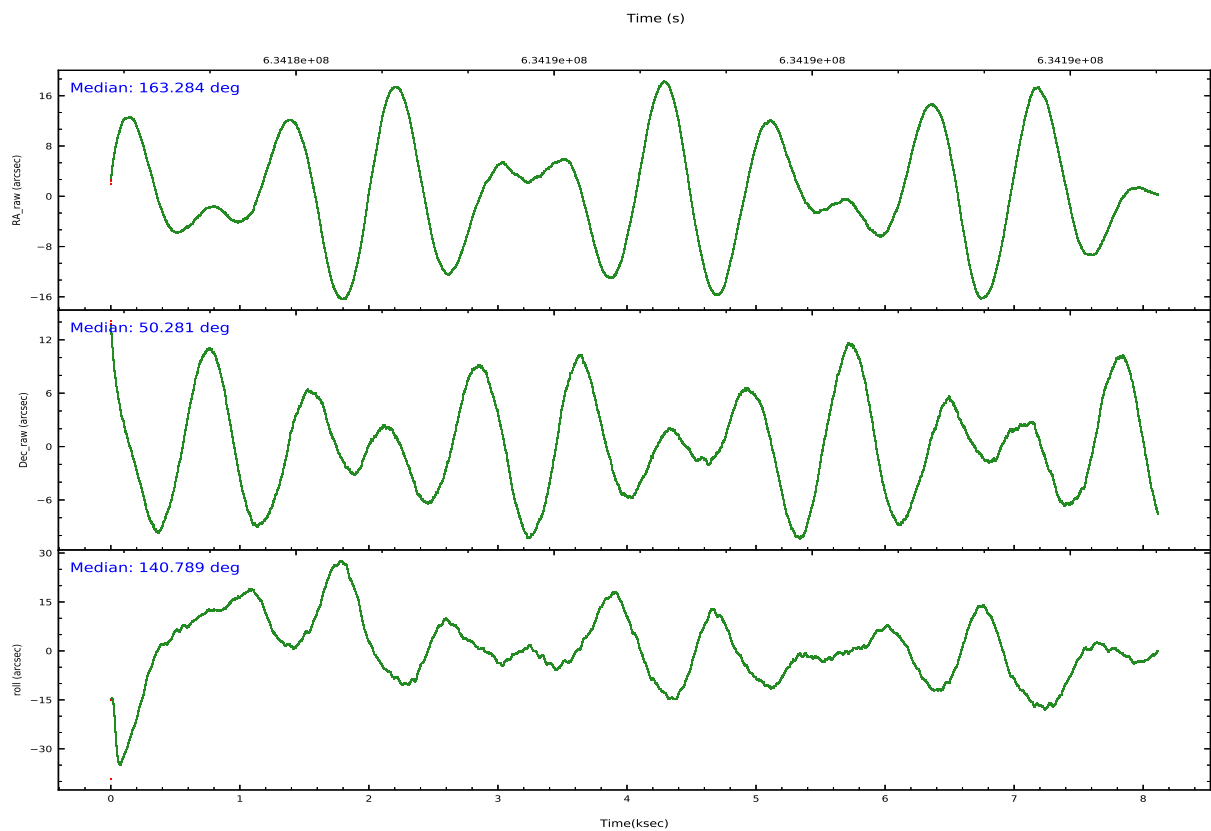
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	163.326015	163.29775930292
[deg] Pointing Dec	50.276825	50.281535416947
[deg] Pointing Roll	140.594850	140.78903344297
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	634182680.184000	634181260.91782
Observation start date	2018-02-05T01:50:11	2018-02-05T01:27:40
[s] Observation end time (MET)	634190680.184000	634191367.4184099
Observation end date	2018-02-05T04:03:31	2018-02-05T04:16:07
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
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	N	N
CCD S2 on	O2	Y
CCD S3 on	Y	Y
CCD S4 on	O1	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



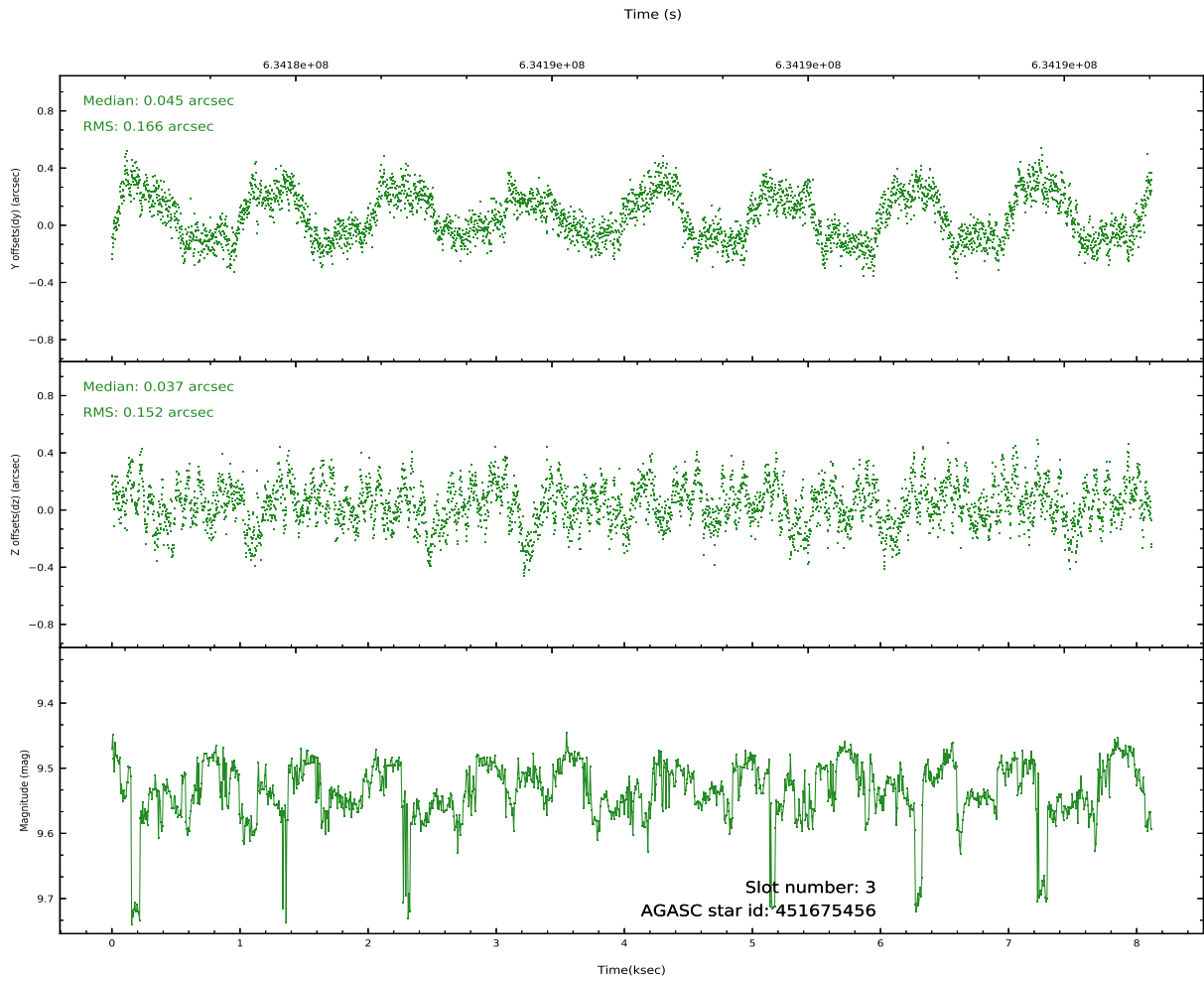
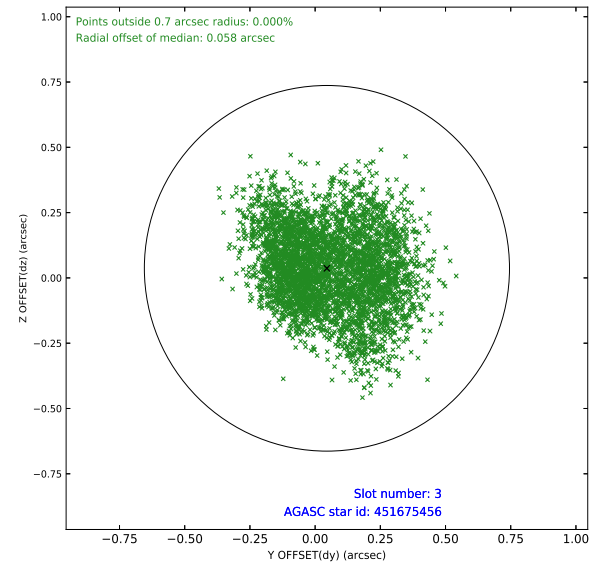
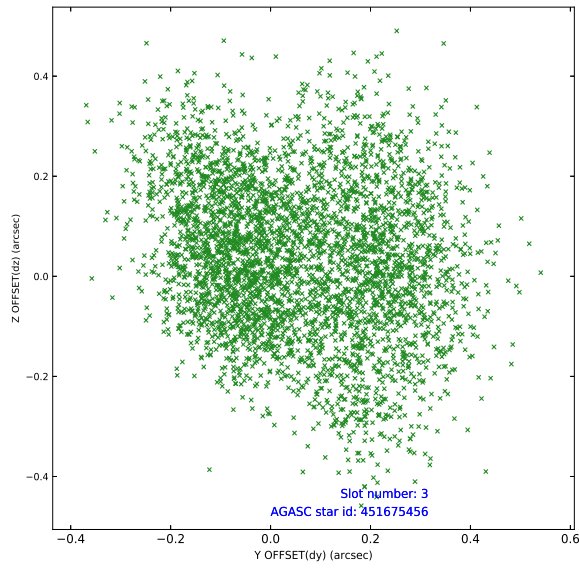


Slot Statistics

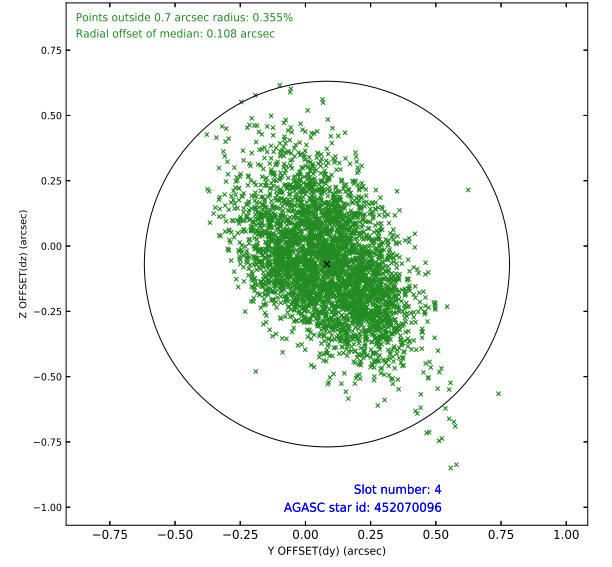
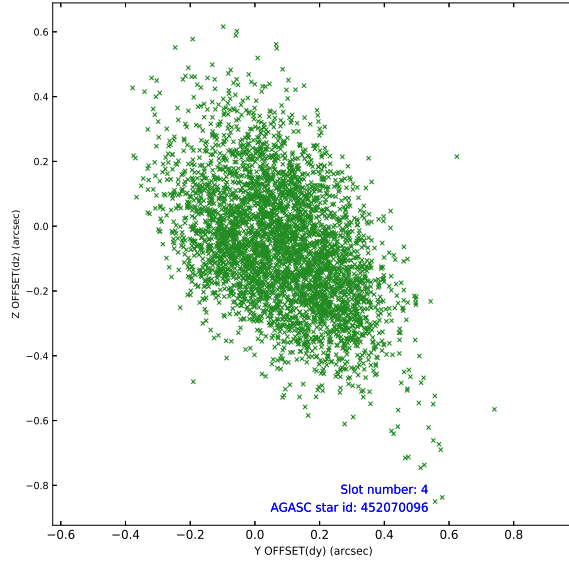
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.15	1980	1.000	0.167	-0.147	0.008	0.013	0.000000	0.000000	-776.31	-1743
1	FID		ACIS-S-4	7.27	1980	1.000	0.115	-0.041	0.006	0.012	0.000000	0.000000	2136.90	164
2	FID		ACIS-S-5	7.26	1980	1.000	-0.313	0.196	0.008	0.013	0.000000	0.000000	-1828.45	159
3	GUIDE	used	451675456	9.53	3957	1.000	0.045	0.037	0.243	0.371	163.450884	49.935465	-1002.92	766
4	GUIDE	used	452070096	9.55	3944	1.000	0.082	-0.069	0.262	0.437	163.299529	51.014562	1733.18	-2011
5	GUIDE	used	452070400	9.46	3944	1.000	-0.124	0.384	0.221	0.348	163.302476	50.386578	293.30	-270
6	GUIDE	used	452070536	6.22	3960	1.000	-0.235	-0.213	0.118	0.206	163.042180	50.265463	478.83	445
7	GUIDE	used	452070280	9.69	3951	1.000	0.212	-0.137	0.204	0.355	162.857859	50.958571	2381.97	-1224

2.4 Star Slots

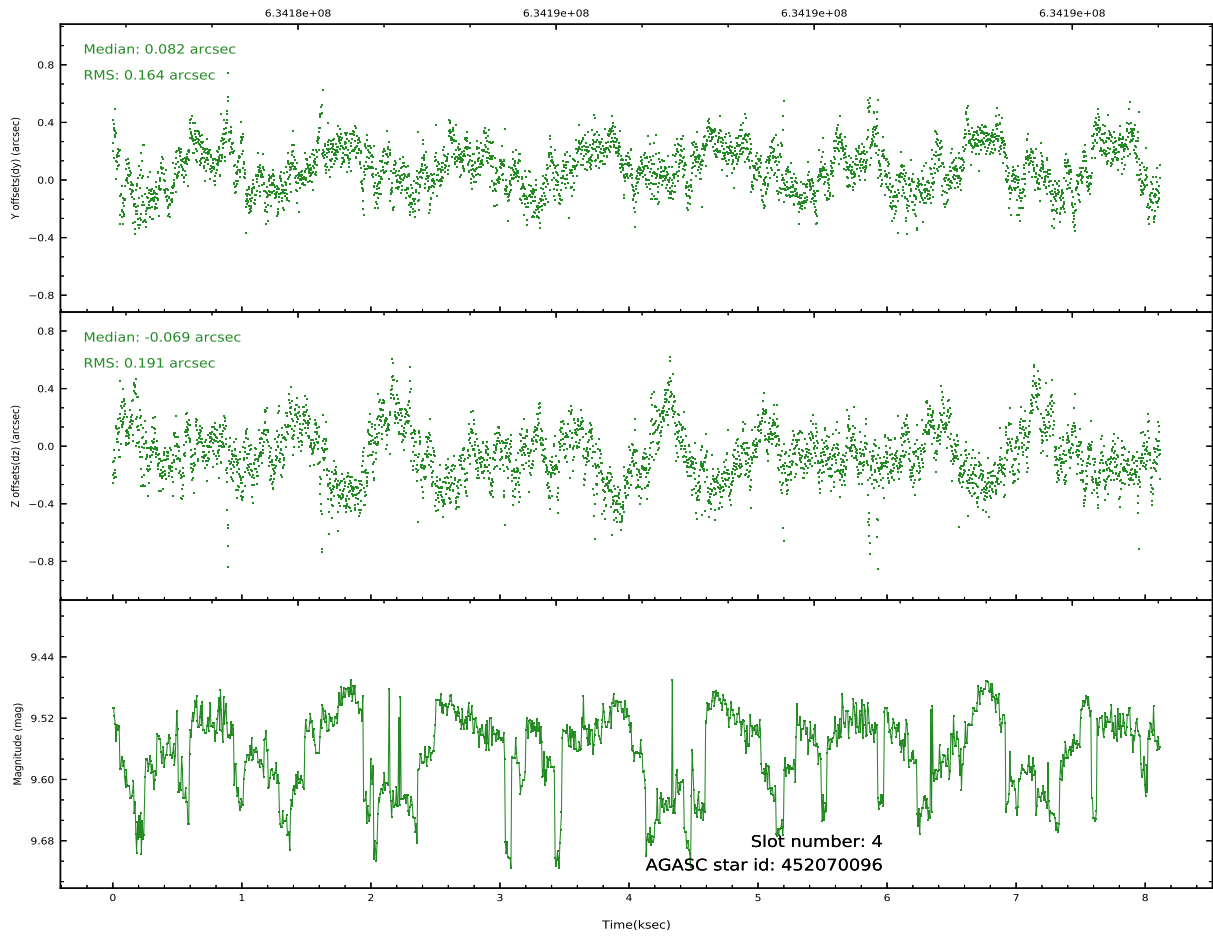
2.4.1 Slot 3



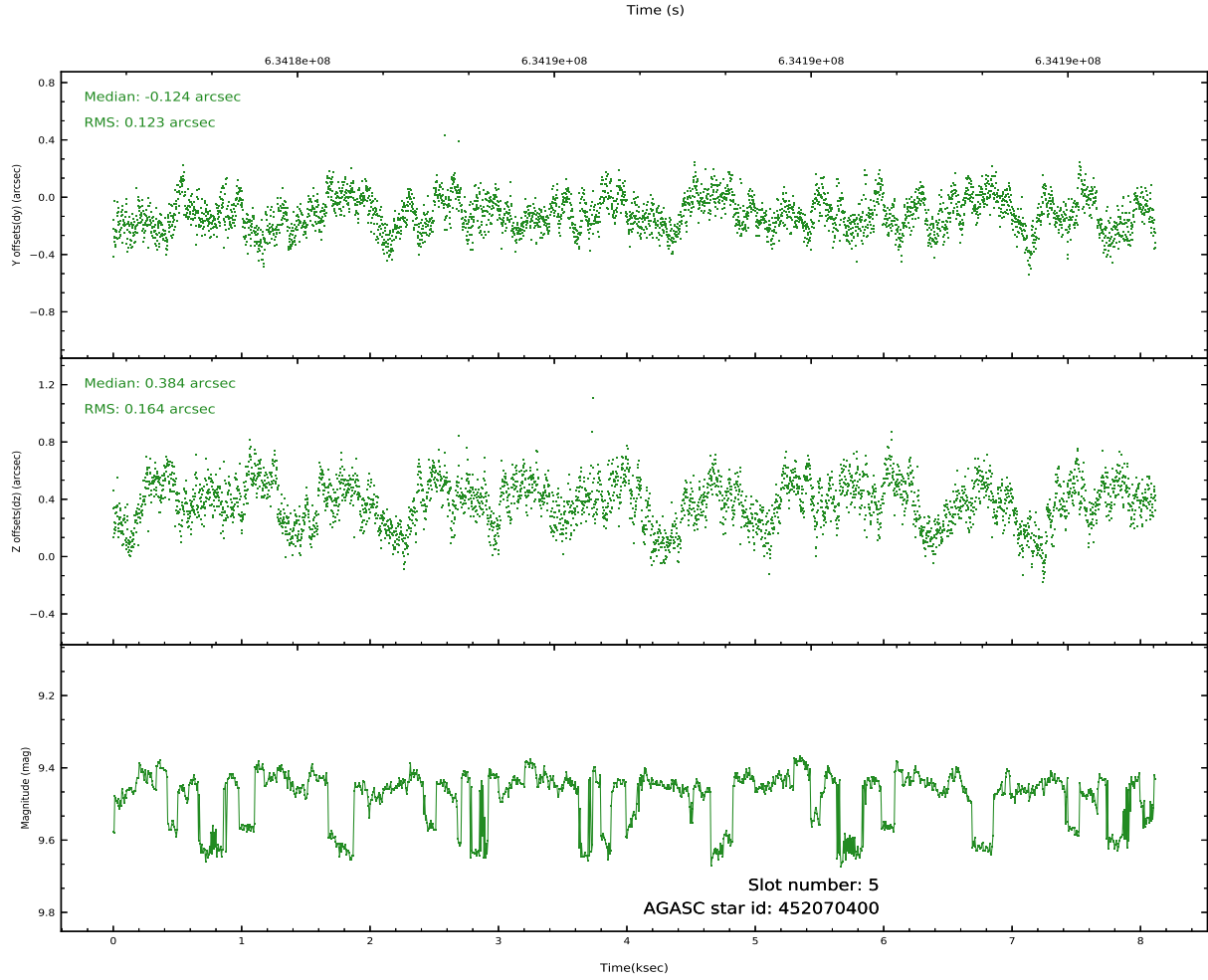
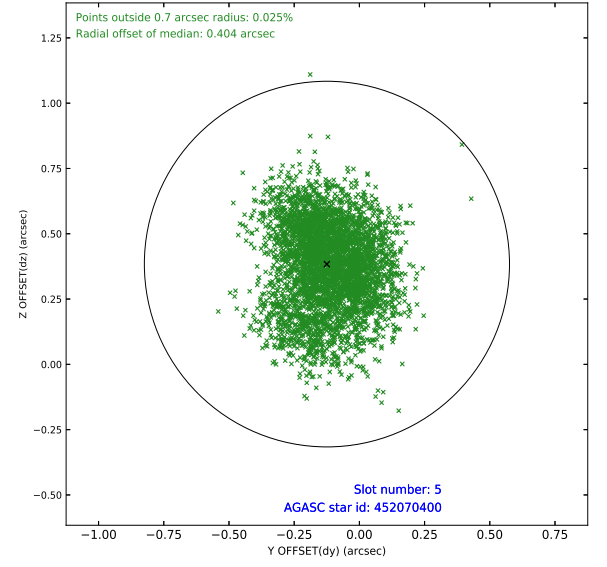
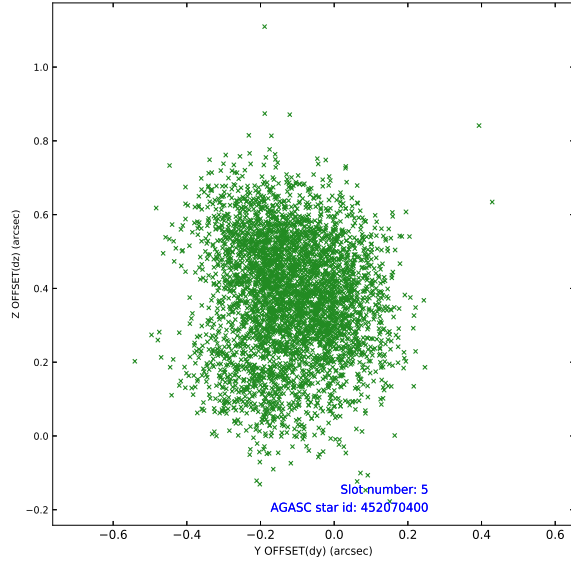
2.4.2 Slot 4



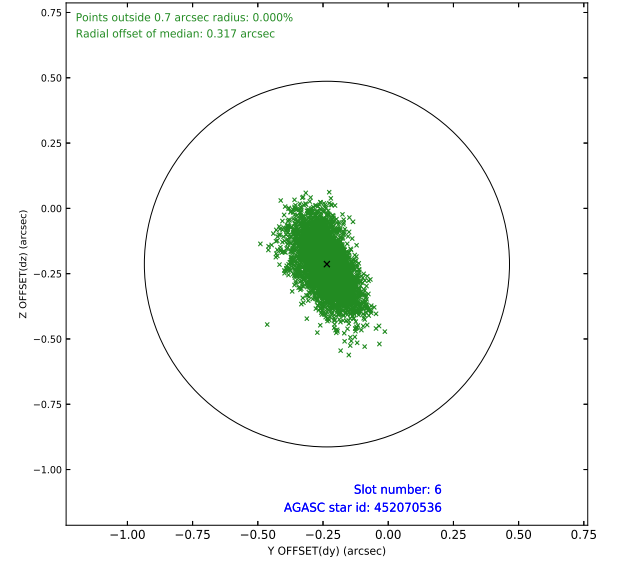
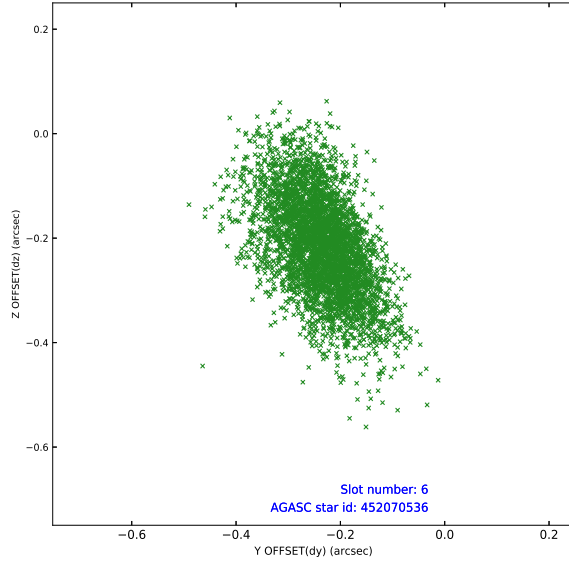
Time (s)



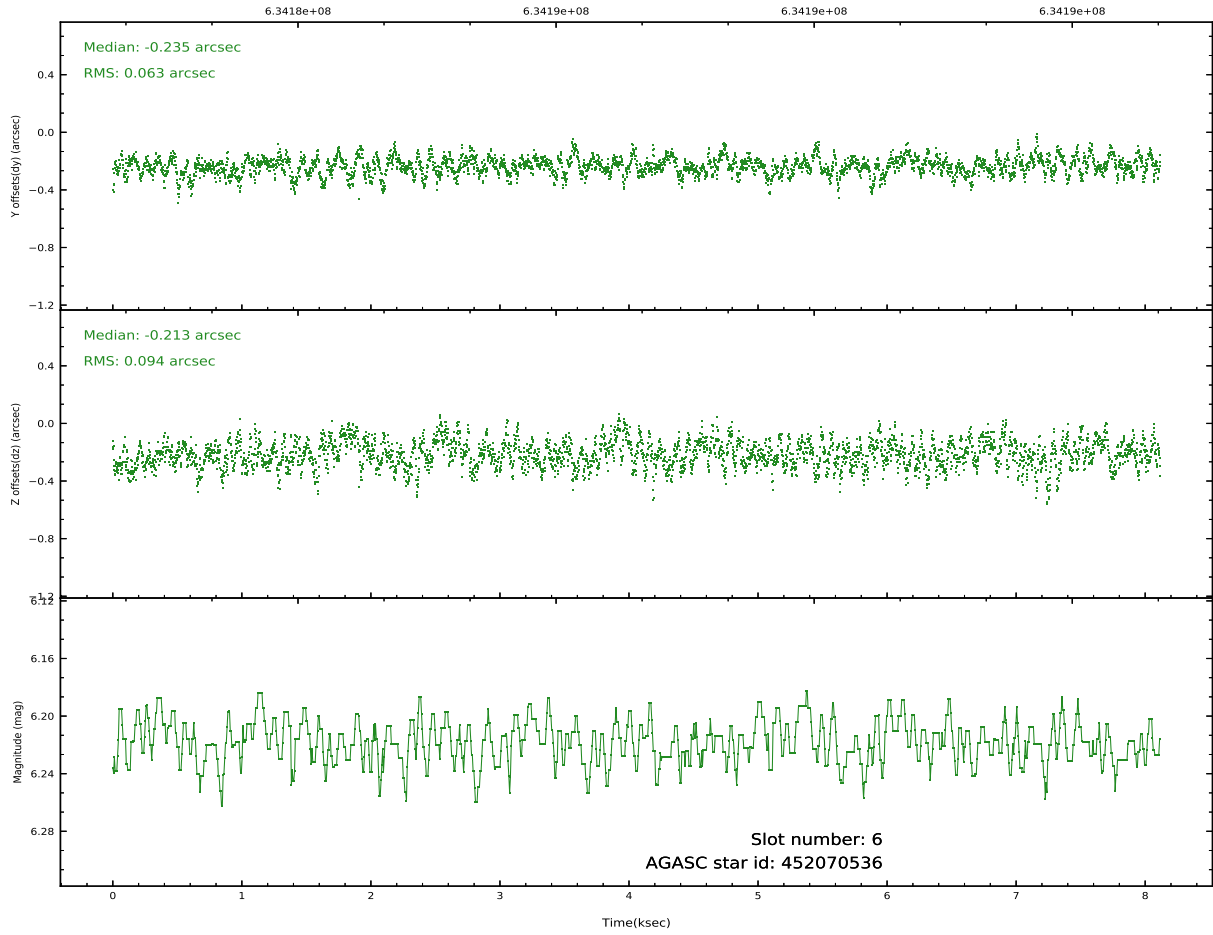
2.4.3 Slot 5



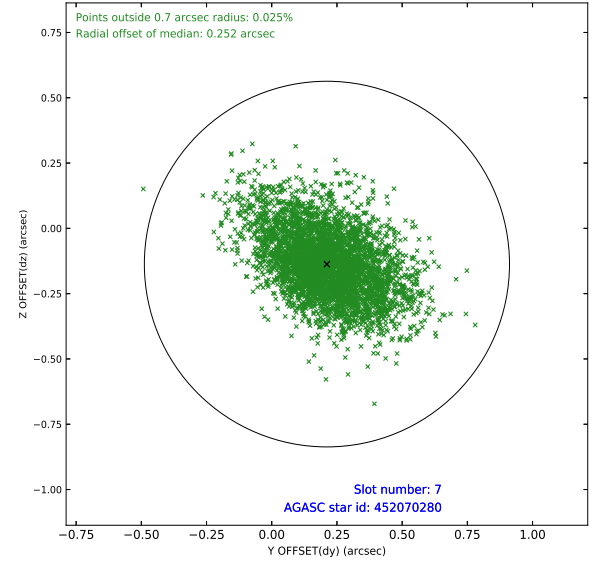
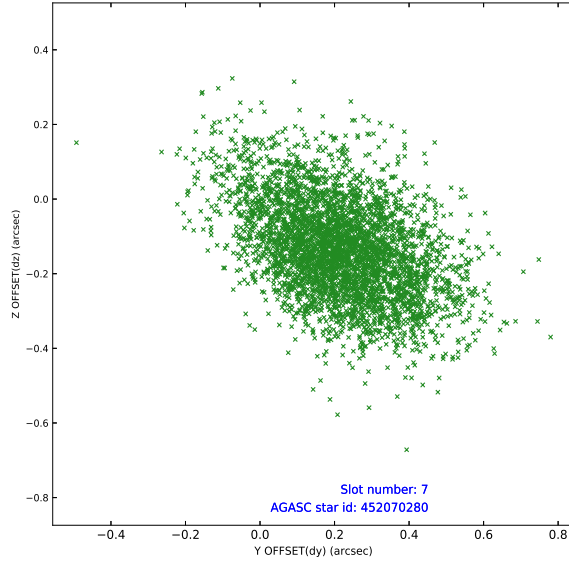
2.4.4 Slot 6



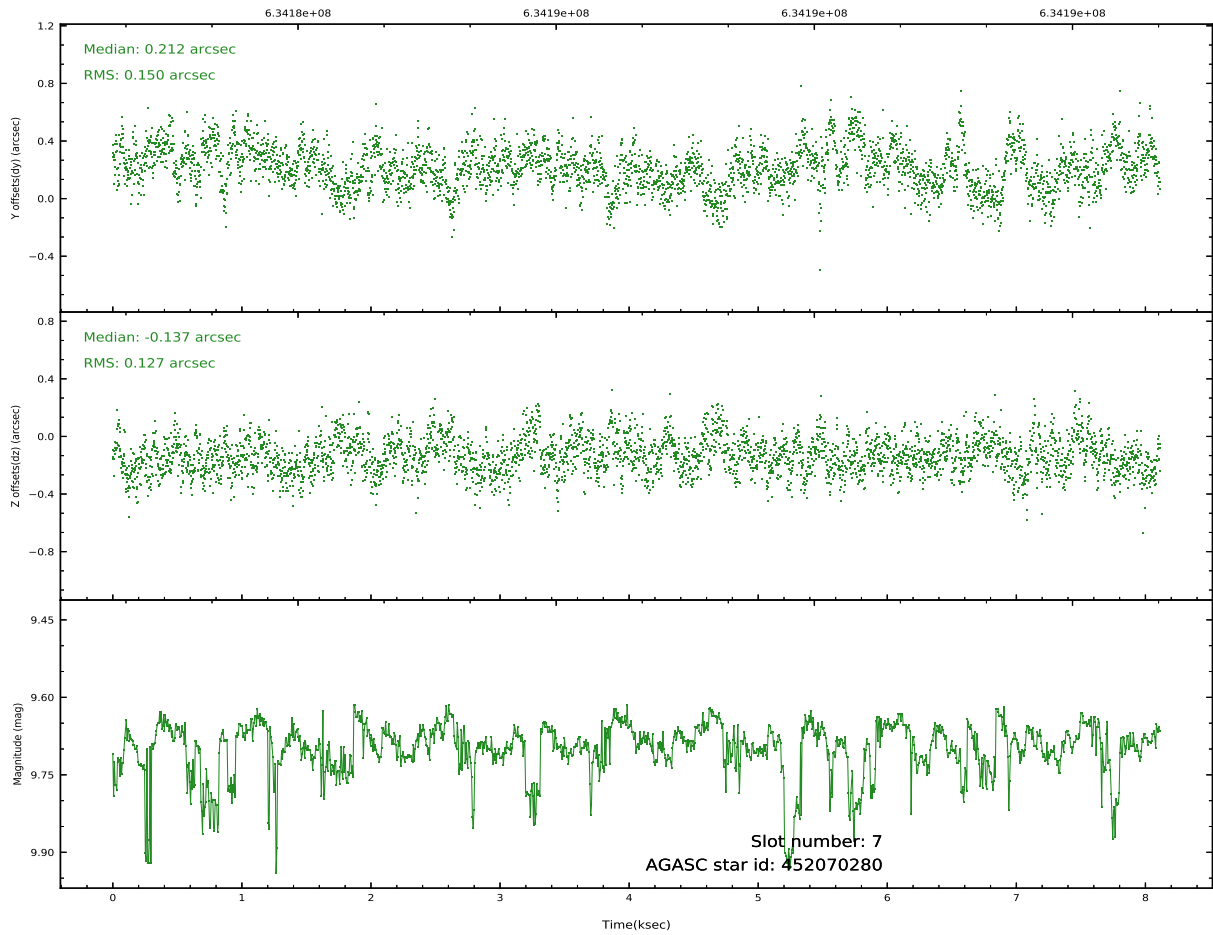
Time (s)



2.4.5 Slot 7

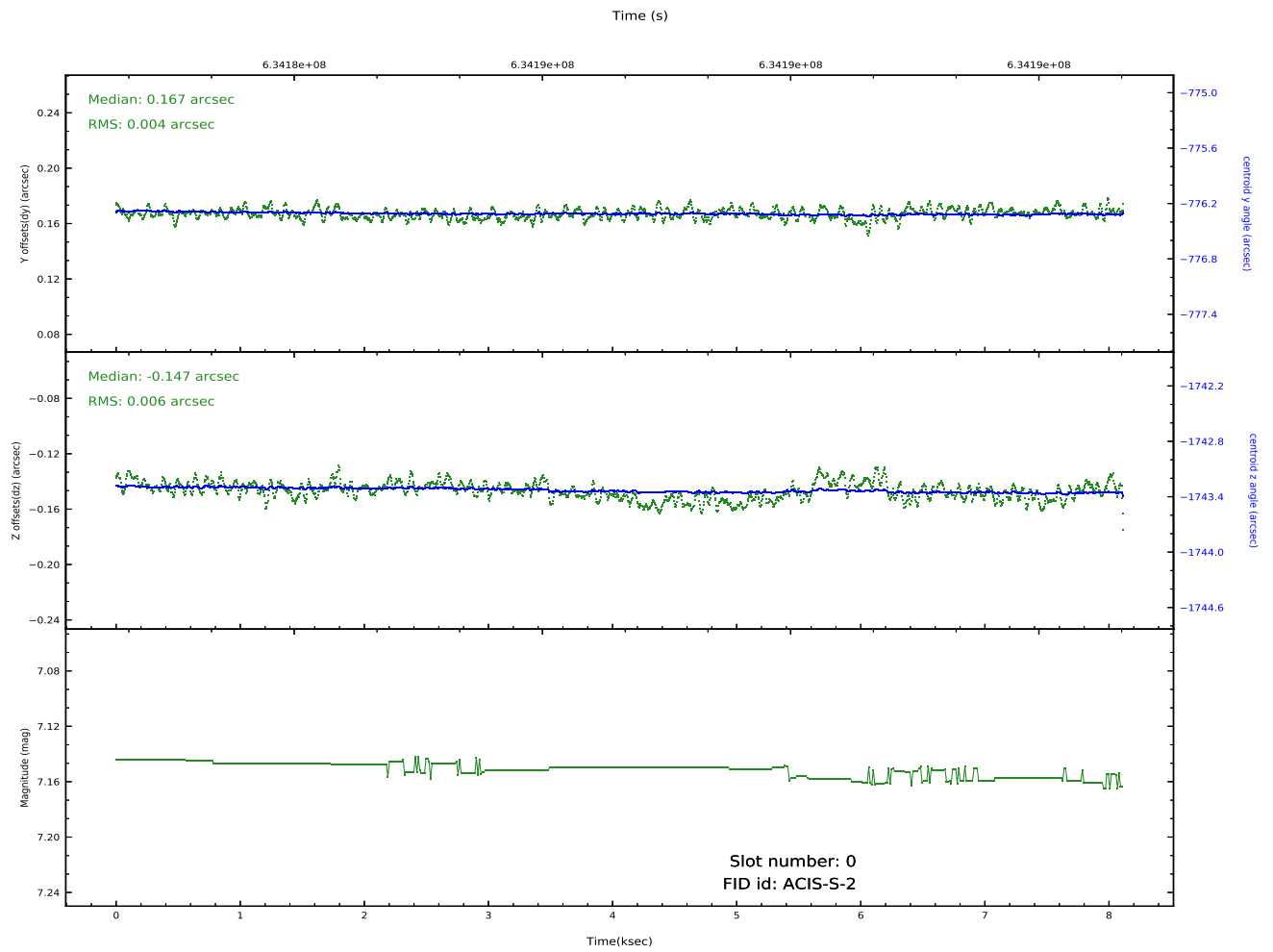
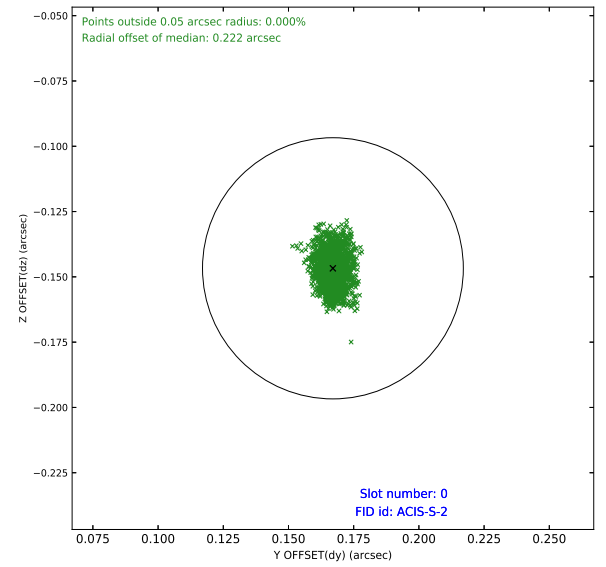
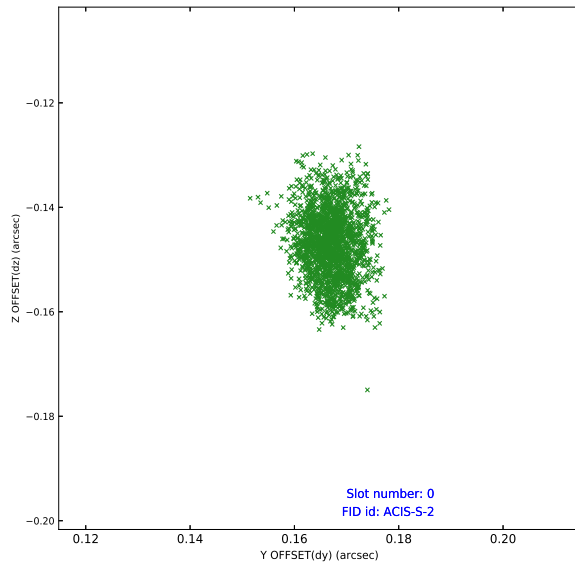


Time (s)

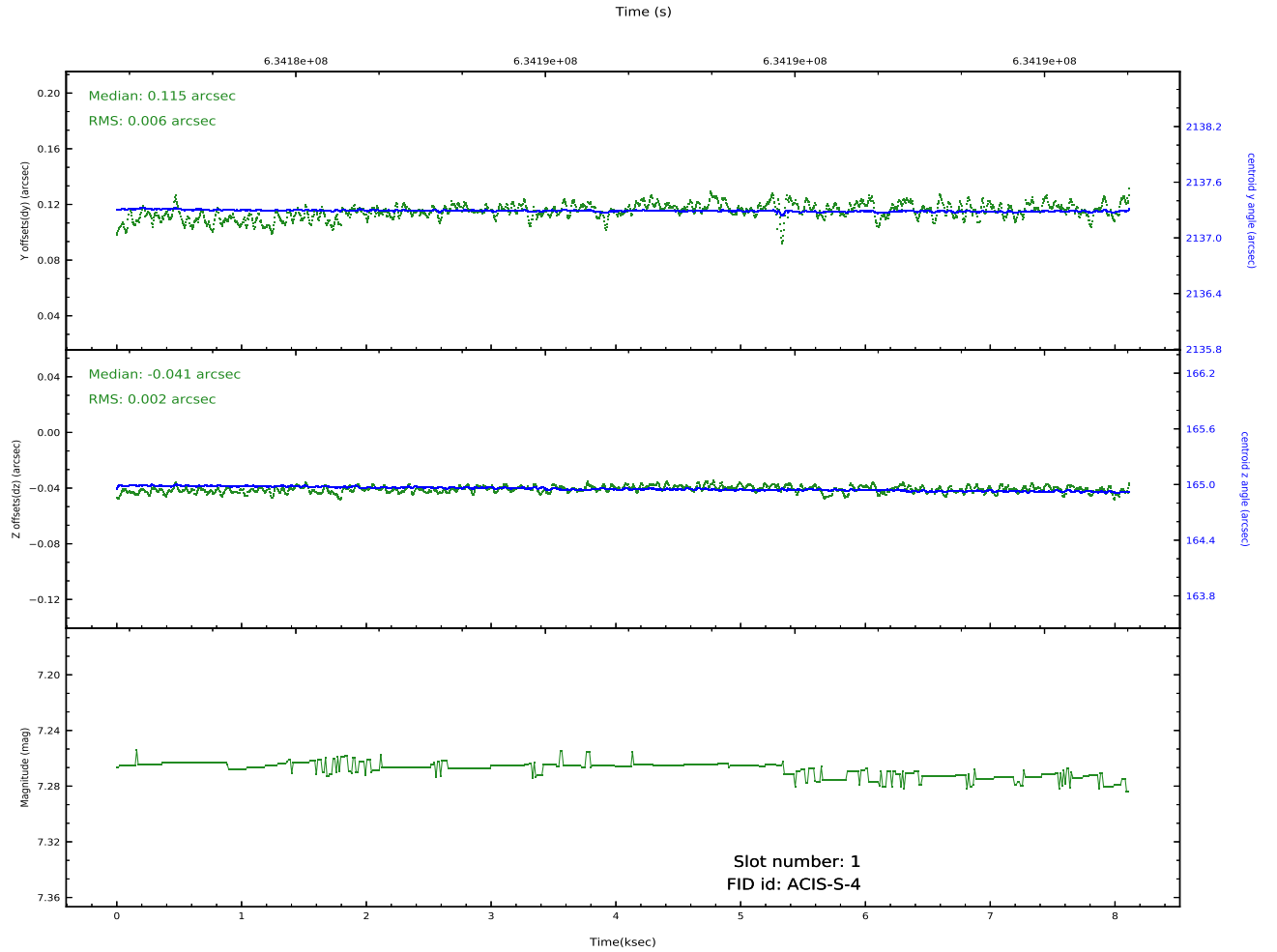
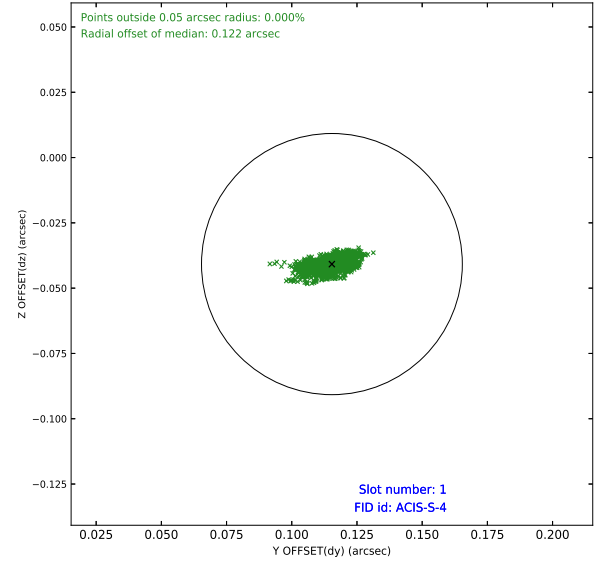
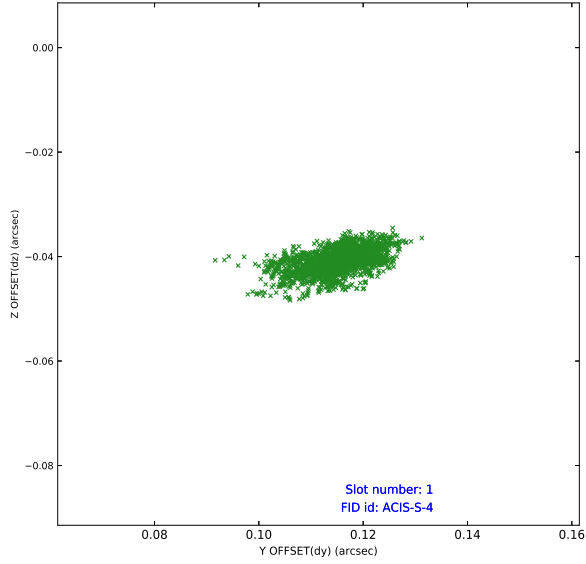


2.5 FID Slots

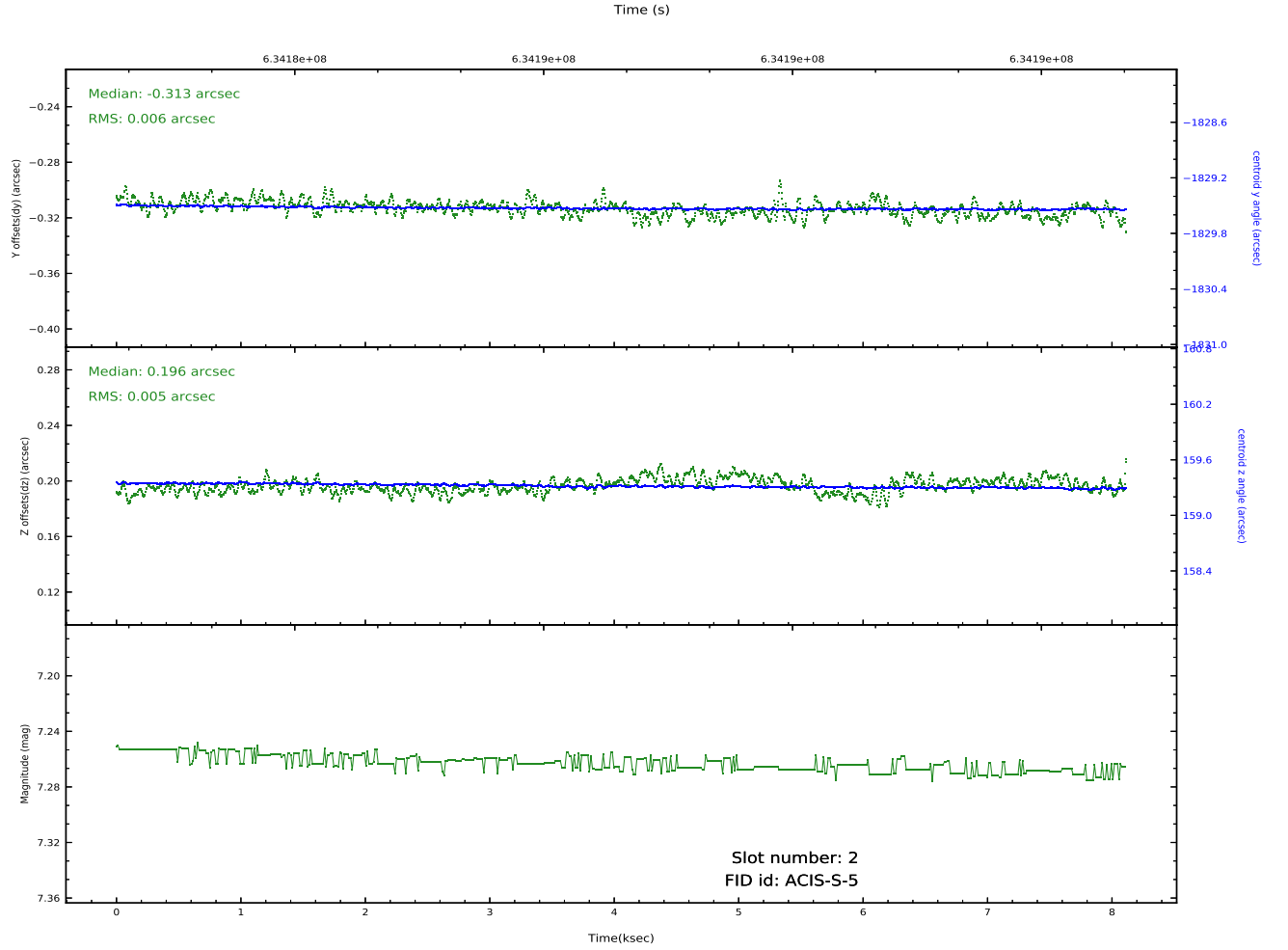
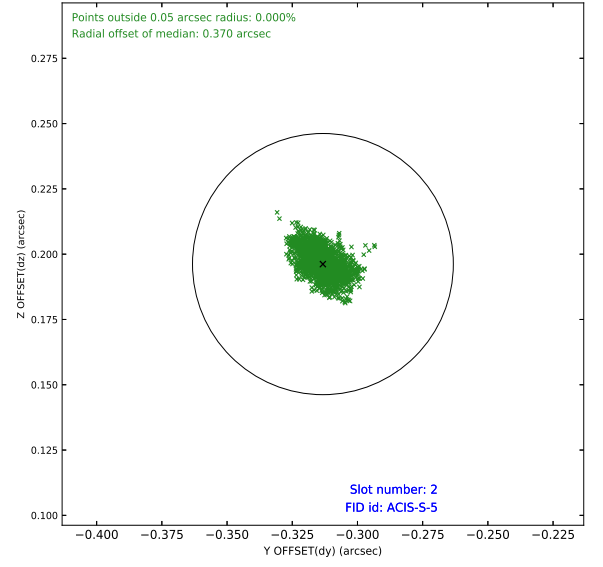
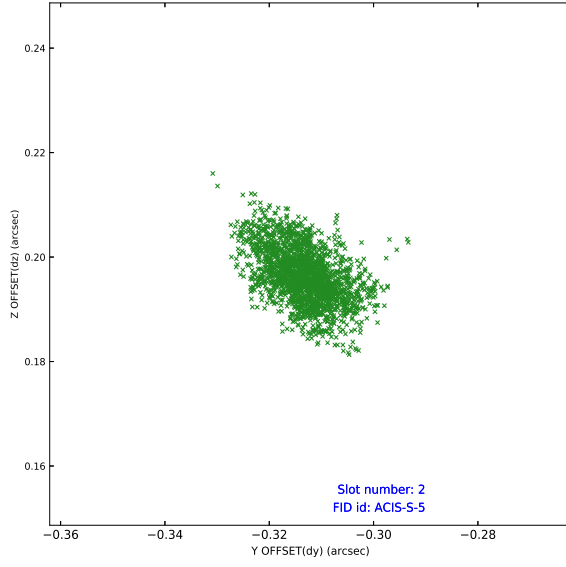
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0752346589565

A.2 Comments