

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20355 - L2 Version 2
Chandra X-Ray Center

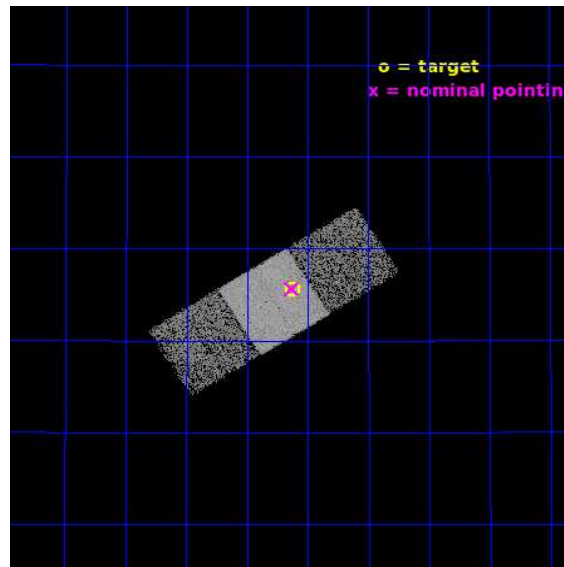
L2 Processing Date : Oct 24 2020

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1 Front

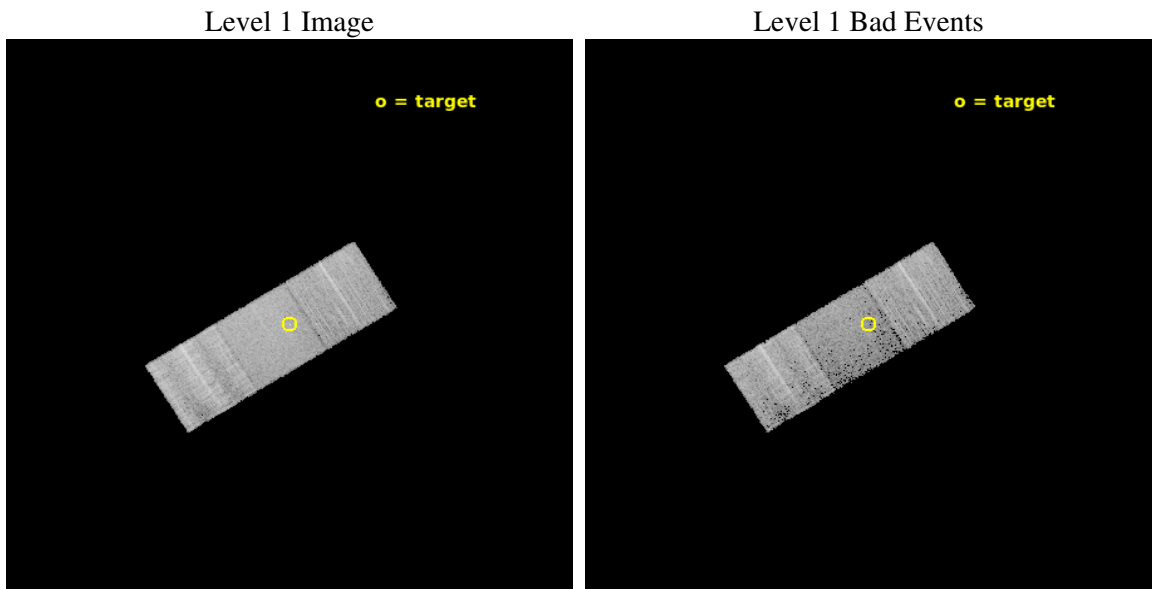
seq_num	601421	Sequence number
obs_id	20355	Observation id
title	X-ray Ionized Nebulae in Nearby Dwarf Galaxies	Proposal title
observer	Richard Plotkin	Principal investigator
object	SDSS J114107.48+322537.2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	175.28125	Observer's specified target RA [deg]
dec_targ	32.427	Observer's specified target Dec [deg]
ra_nom	175.28273804374	Nominal RA [deg]
dec_nom	32.42775933094	Nominal Dec [deg]
roll_nom	148.15489921512	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8077.77954638	Sum of GTIs [s]
livetime	7972.2374098318	Livetime [s]
ontime6	8077.7385064363	Sum of GTIs [s]
ontime7	8077.77954638	Sum of GTIs [s]
ontime8	8071.4154453278	Sum of GTIs [s]
l2events	39269	Number of level 2 events



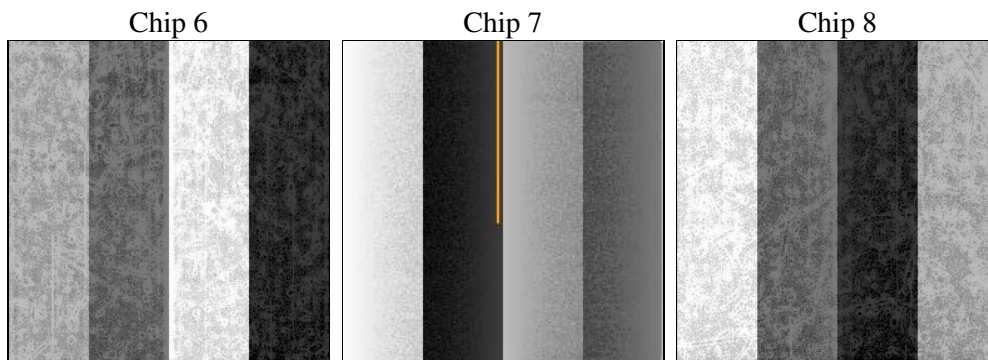
2 OBI

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	8077.77954638	Sum of GTIs [s]
caldbver	4.9.3	 	ontime6	8077.7385064363	Sum of GTIs [s]
date	2020-10-25T00:43:32	Date and time of file creation	ontime7	8077.77954638	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	8071.4154453278	Sum of GTIs [s]
			l1events	188692	Number of level 1 events

2.1.4 Events

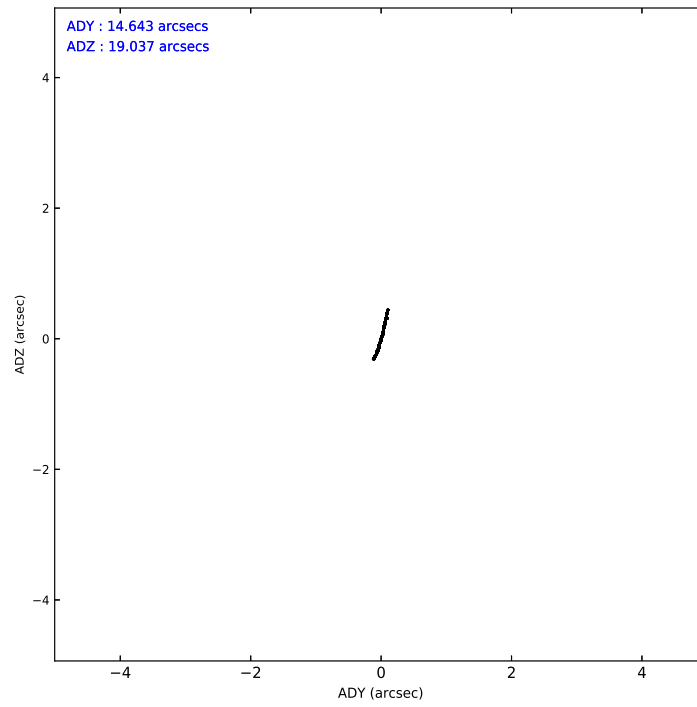
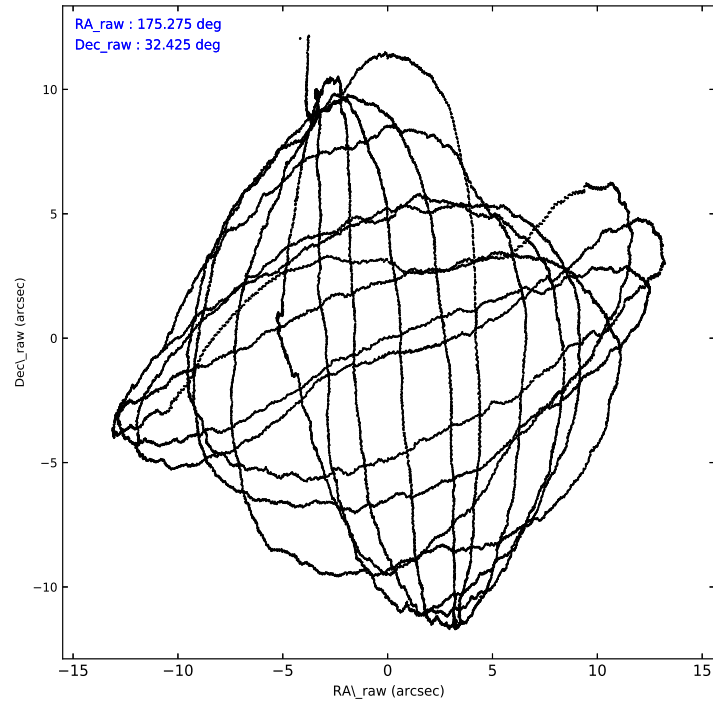
	ccd 6	ccd 7	ccd 8
level 1 events	56355	60544	71793
rejected events	50080	31578	51681
rejected %	88%	52%	71%

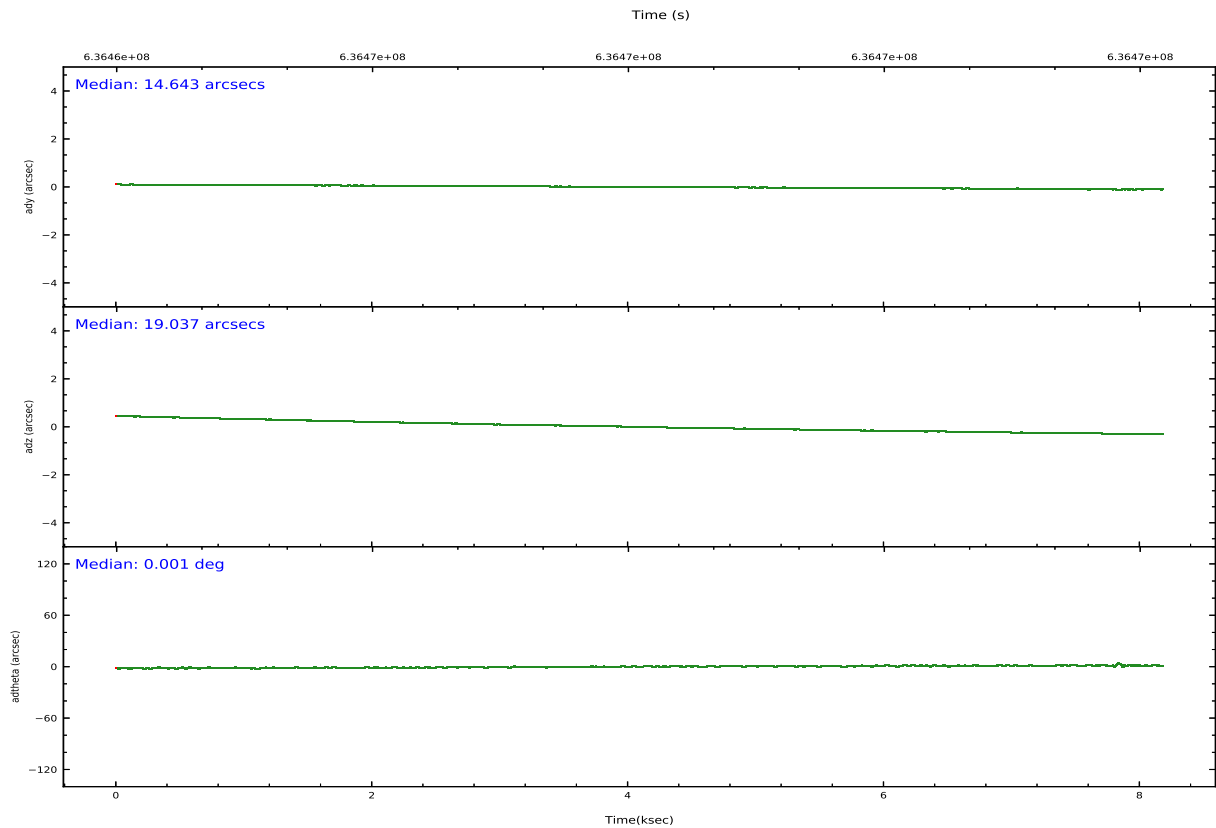
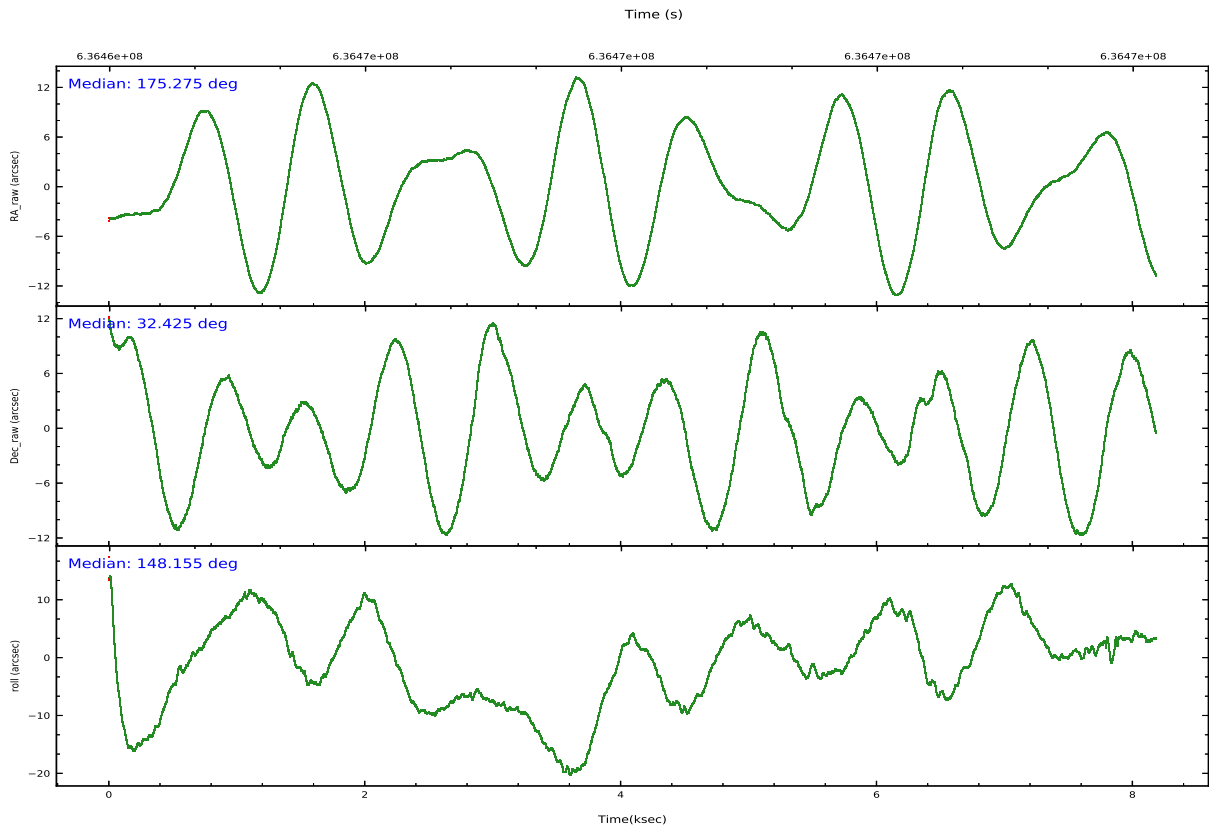
	ccd 6	ccd 7	ccd 8
grade 0 events	2175	2775	5349
	3%	4%	7%
grade 1 events	32	116	70
	0%	0%	0%
grade 2 events	1509	6356	5102
	2%	10%	7%
grade 3 events	608	2464	2128
	1%	4%	2%
grade 4 events	622	2411	1965
	1%	3%	2%
grade 5 events	2141	6254	3472
	3%	10%	4%
grade 6 events	1363	14973	5570
	2%	24%	7%
grade 7 events	47905	25195	48137
	85%	41%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	175.307574	175.28273804374	CCD I2 on	N	N
[deg] Pointing Dec	32.424765	32.42775933094	CCD I3 on	N	N
[deg] Pointing Roll	147.985886	148.15489921512	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	636464179.184000	636462780.8772399	CCD S5 on	N	N
Observation start date	2018-03-03T11:35:10	2018-03-03T11:13:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	636472179.184000	636473276.36536	On-chip summing requested	N	N
Observation end date	2018-03-03T13:48:30	2018-03-03T14:07:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





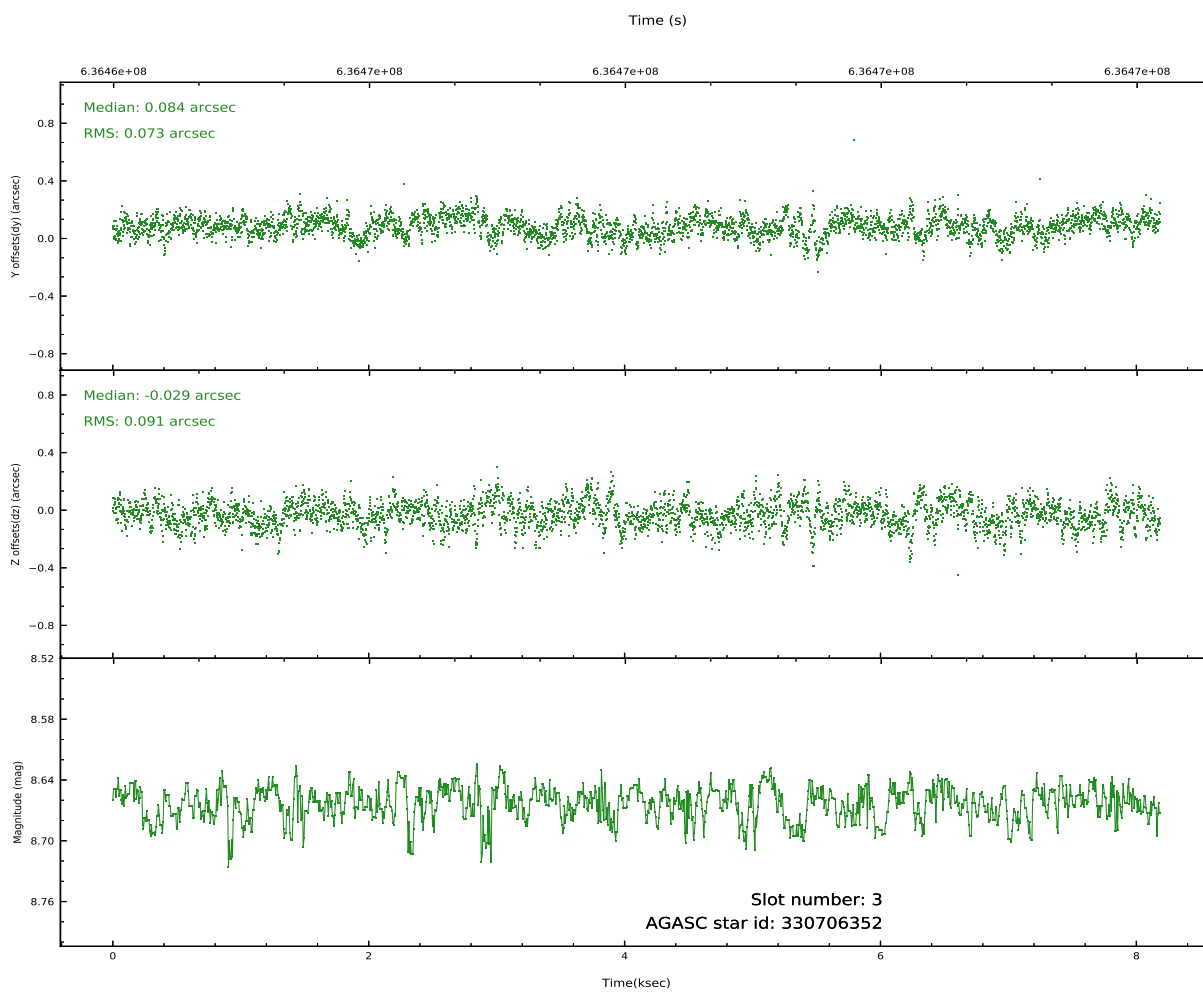
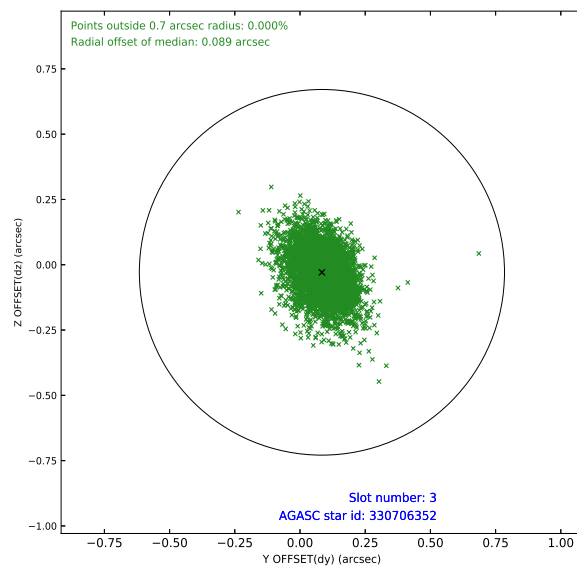
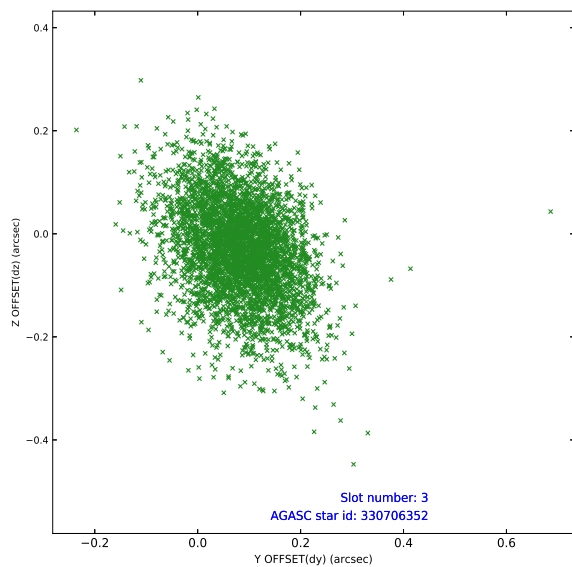
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.12	1997	1.000	0.241	-0.085	0.013	0.021	0.000000	0.000000	928.48	-1736
1	FID		ACIS-S-4	7.14	1997	1.000	0.101	-0.053	0.013	0.022	0.000000	0.000000	2146.32	167
2	FID		ACIS-S-5	7.13	1997	1.000	-0.370	0.150	0.007	0.014	0.000000	0.000000	-1819.93	162
3	GUIDE	used	330706352	8.66	3991	1.000	0.084	-0.029	0.121	0.207	175.357747	32.241619	-480.14	482
4	GUIDE	used	330707496	9.07	3992	1.000	0.022	-0.031	0.150	0.254	175.134764	32.703945	978.40	-573
5	GUIDE	used	330707688	8.96	3926	1.000	-0.136	-0.059	0.147	0.253	174.786306	32.091396	713.91	1857
6	GUIDE	used	330832856	8.74	3991	1.000	0.016	-0.033	0.147	0.237	175.693707	32.725903	-414.86	-1539
7	GUIDE	used	330833760	9.08	3991	1.000	0.015	0.155	0.157	0.265	175.986045	32.581775	-1440.85	-1575

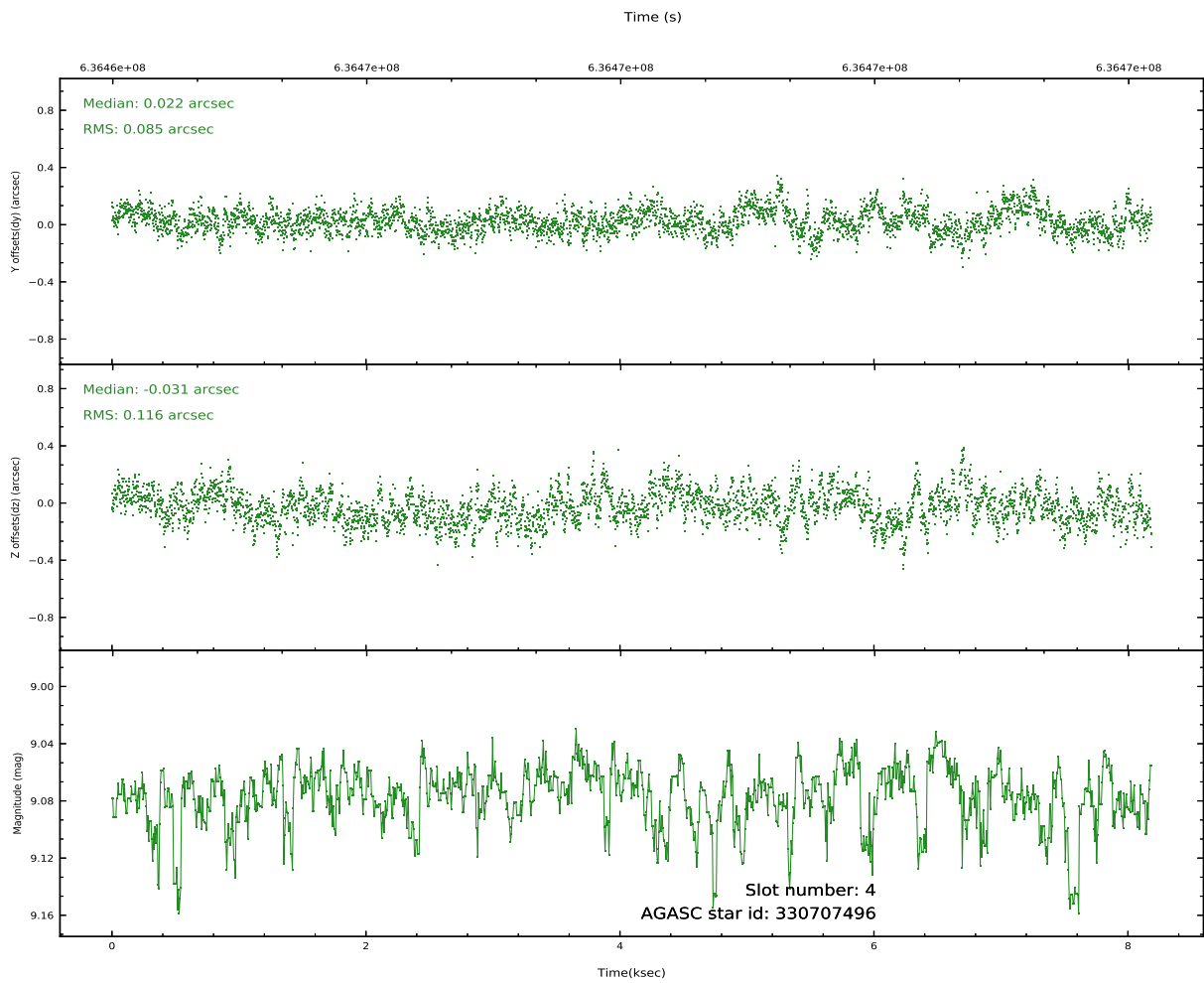
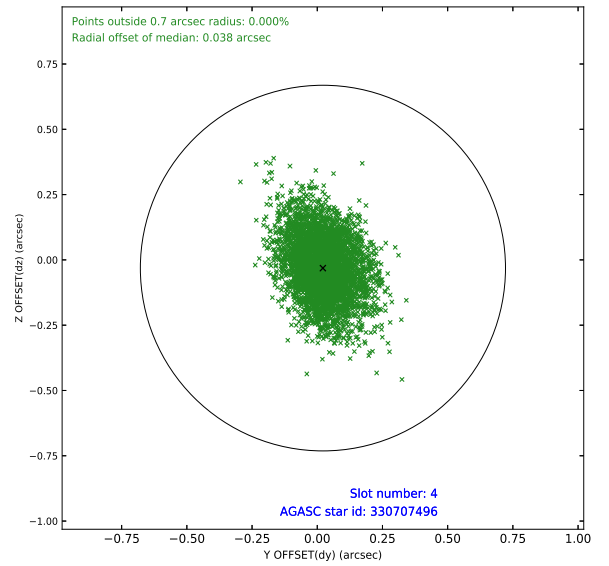
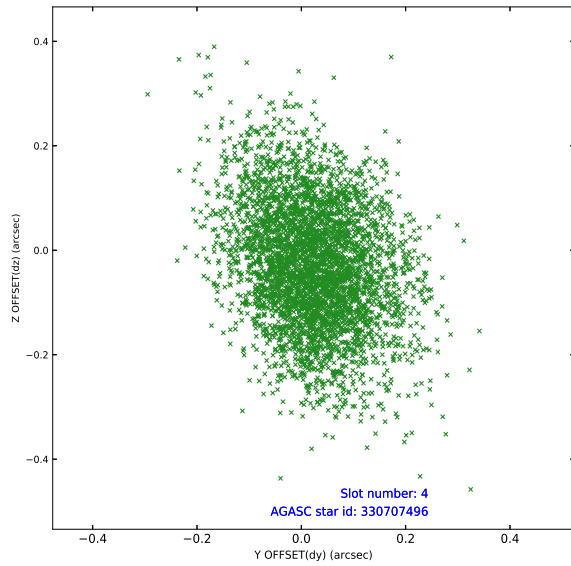
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2.4 Star Slots

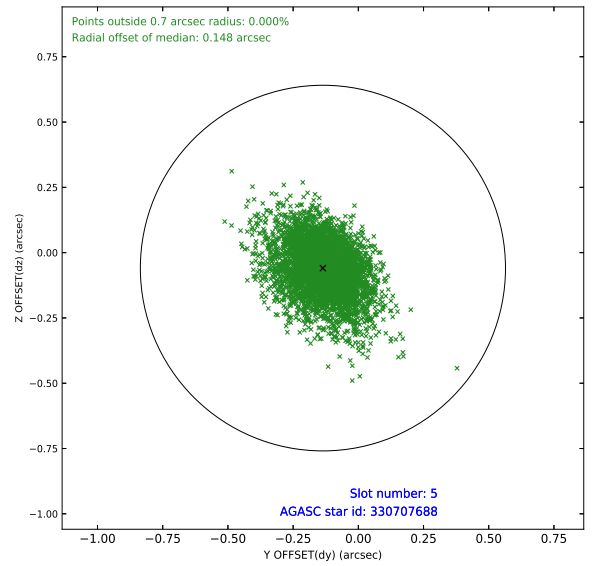
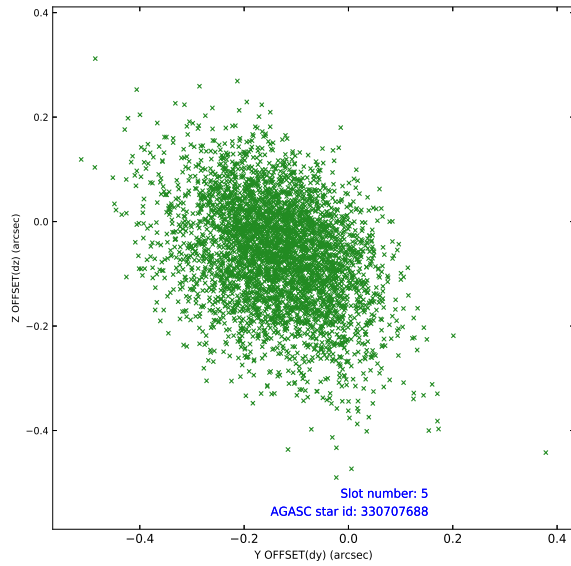
2.4.1 Slot 3



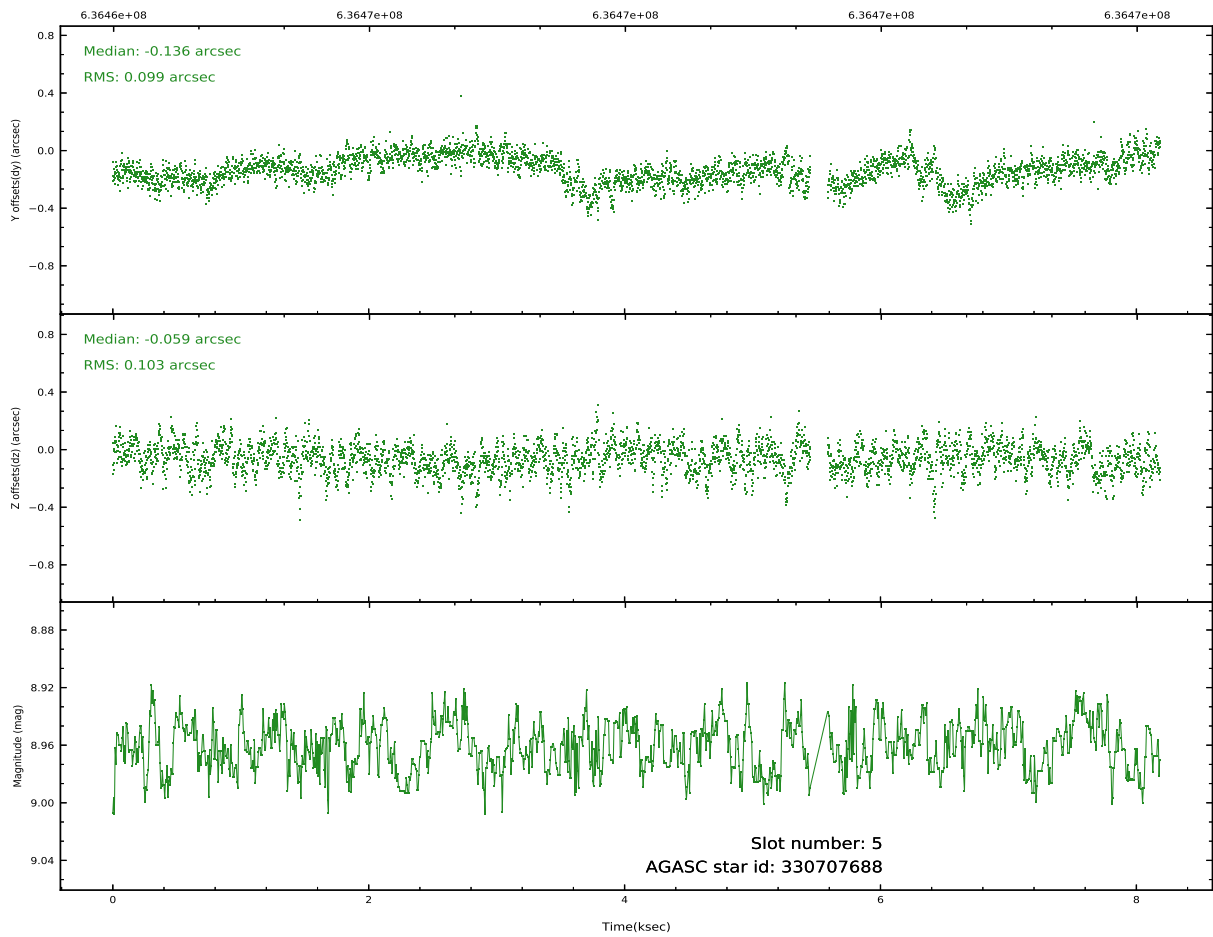
2.4.2 Slot 4



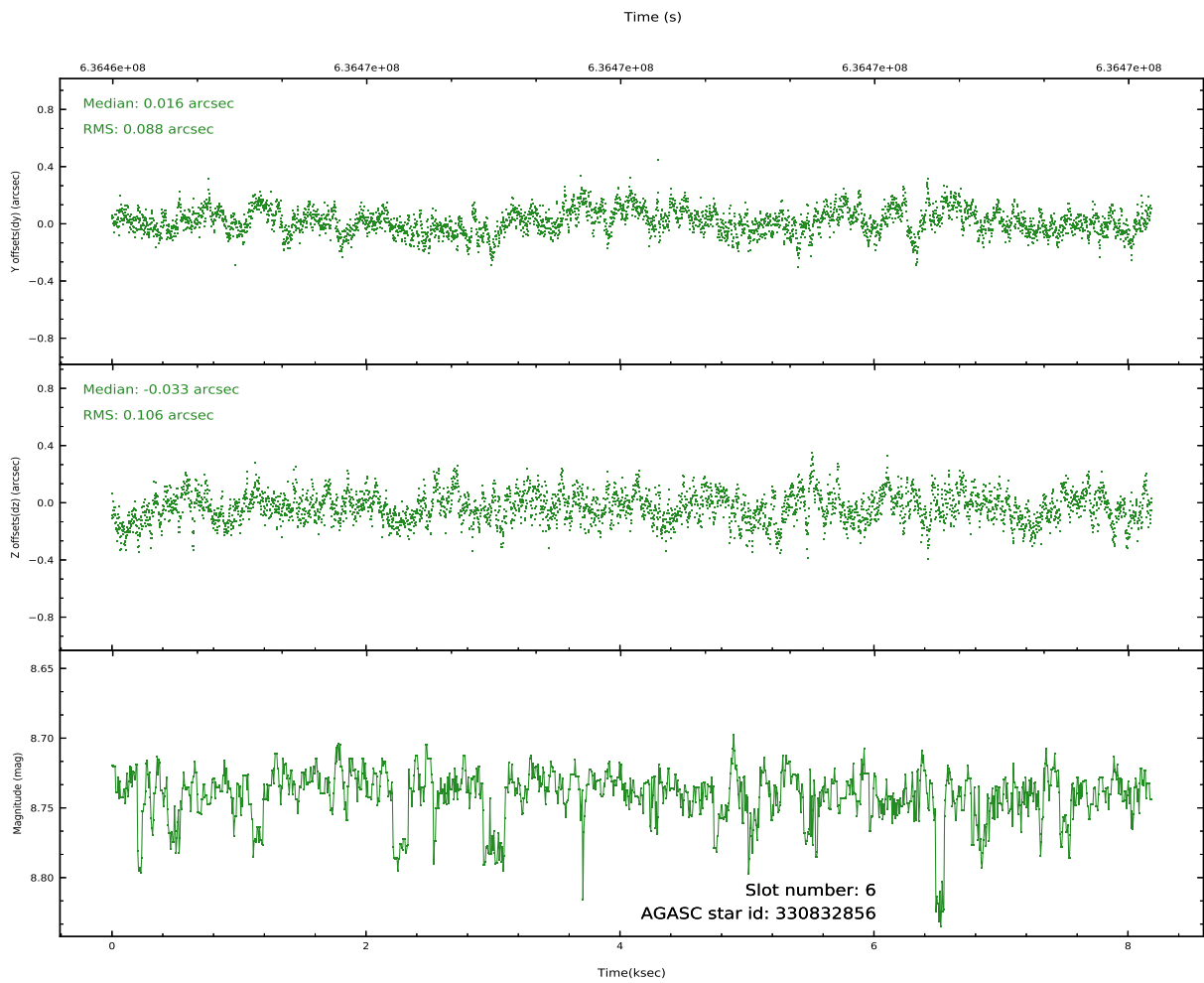
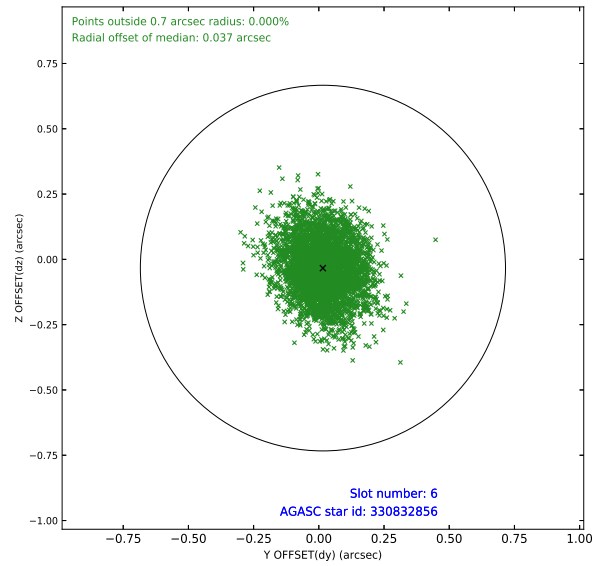
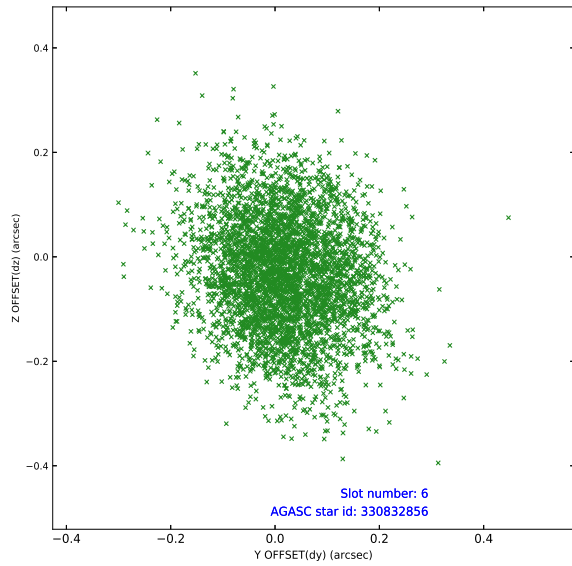
2.4.3 Slot 5



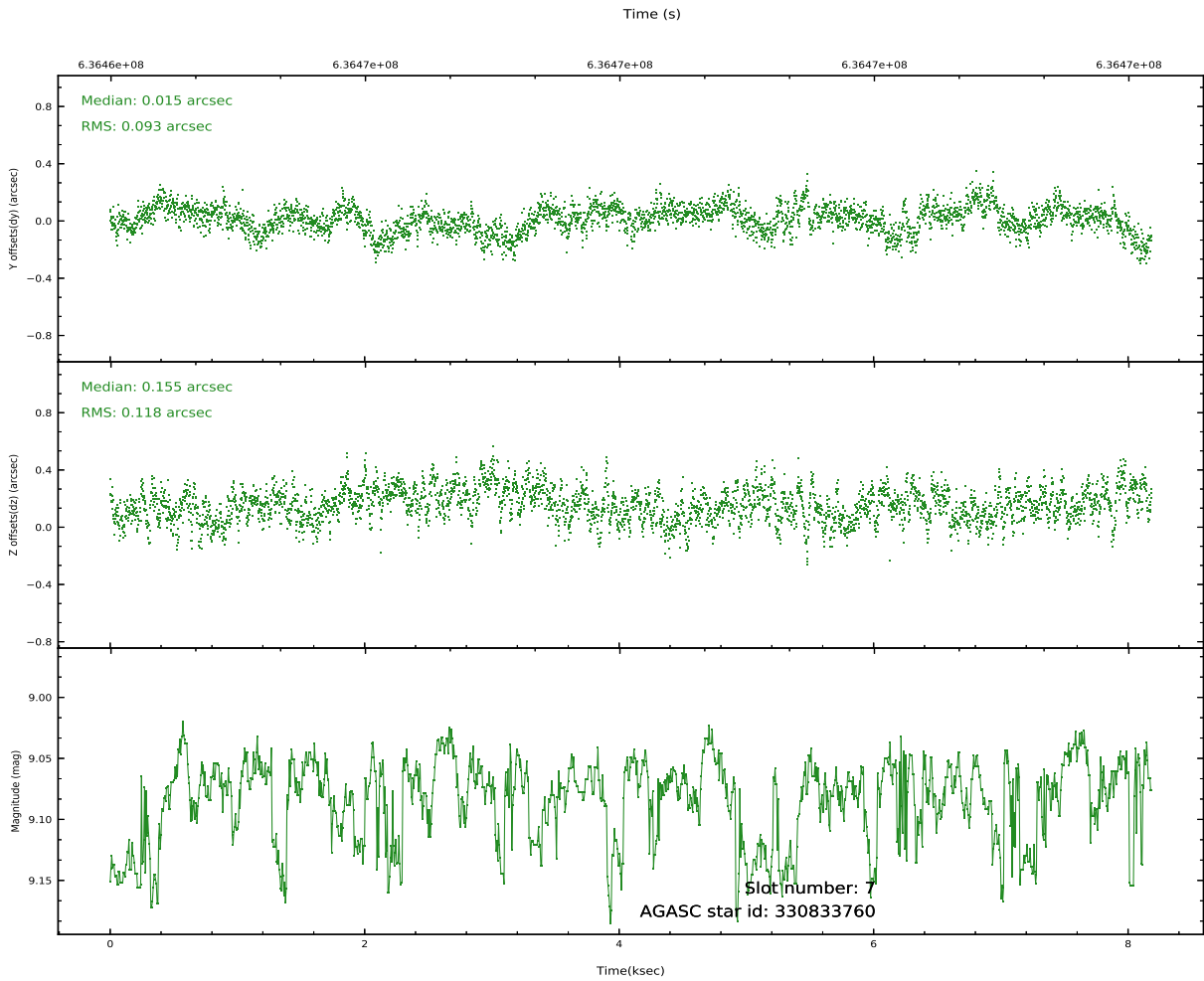
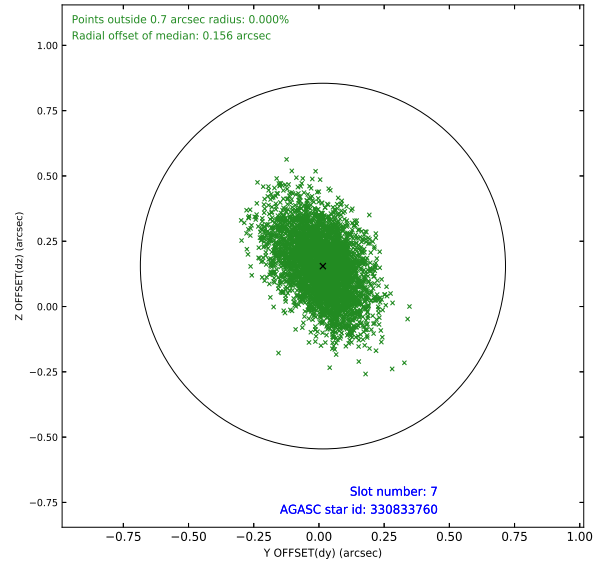
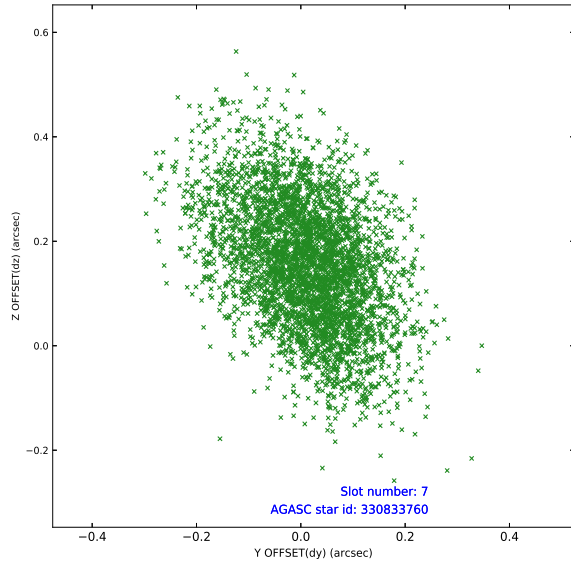
Time (s)



2.4.4 Slot 6

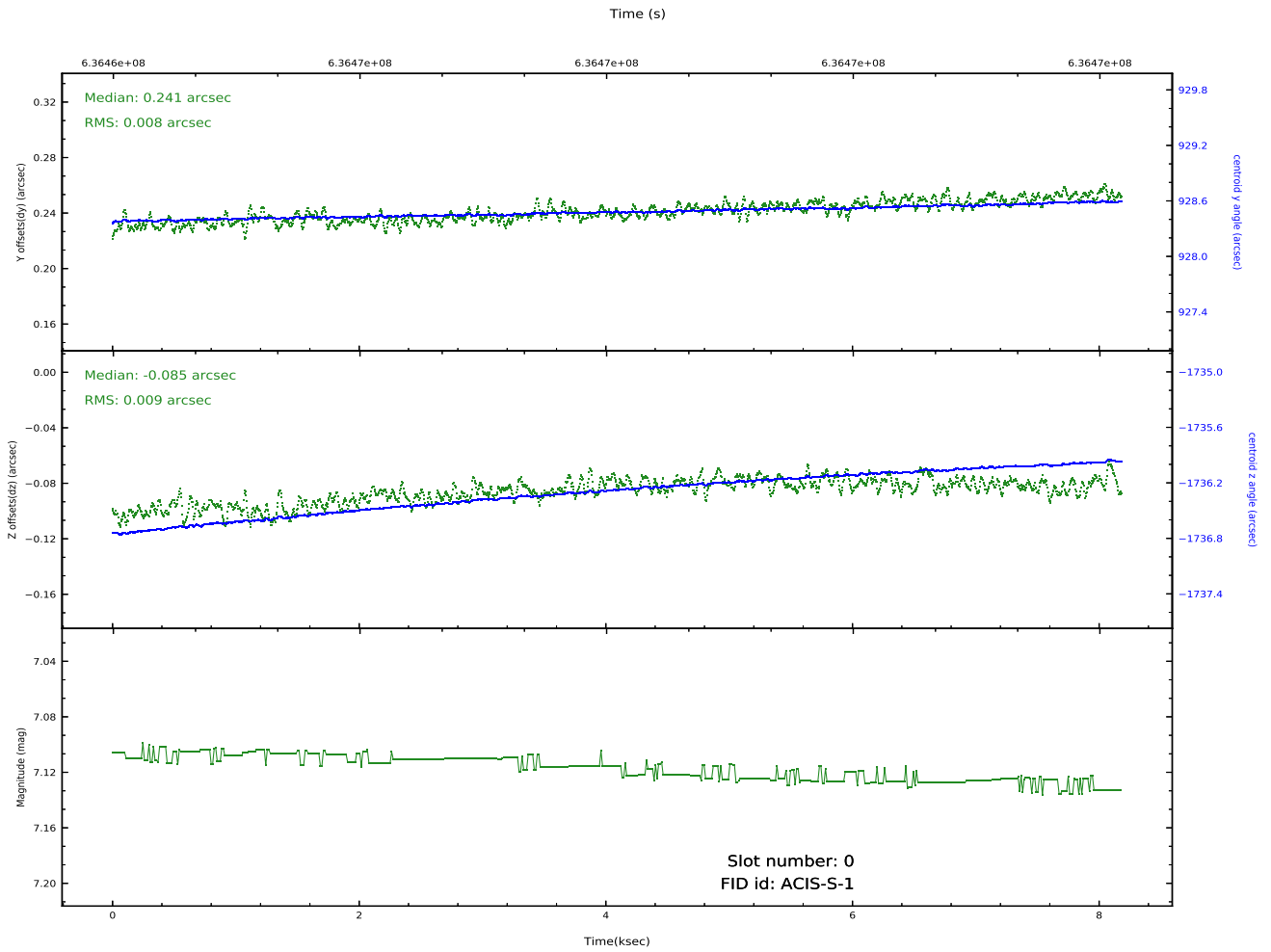
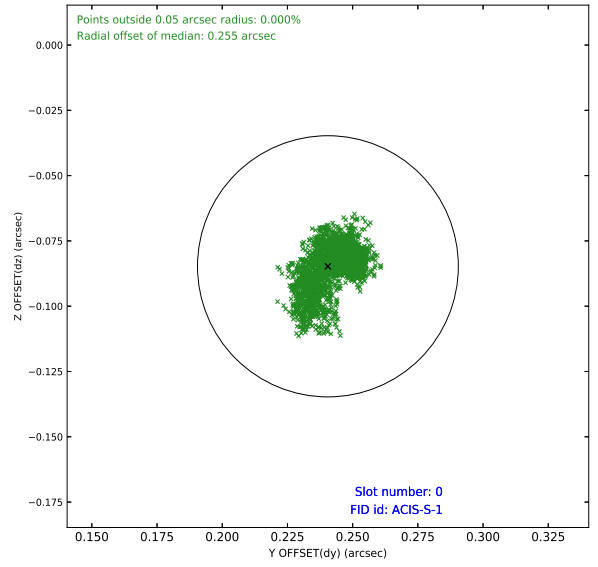
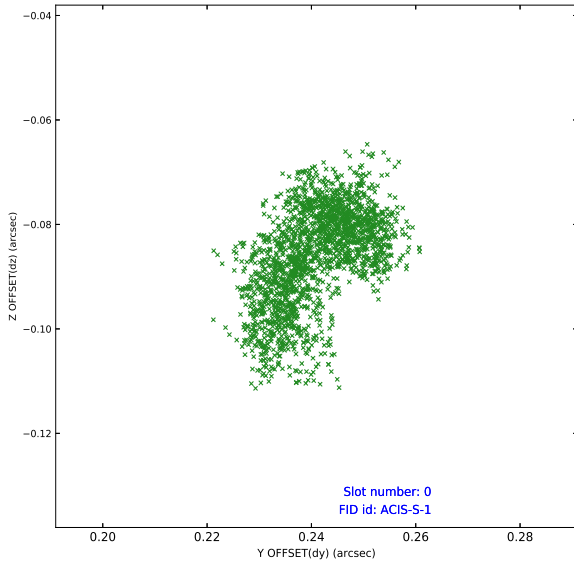


2.4.5 Slot 7

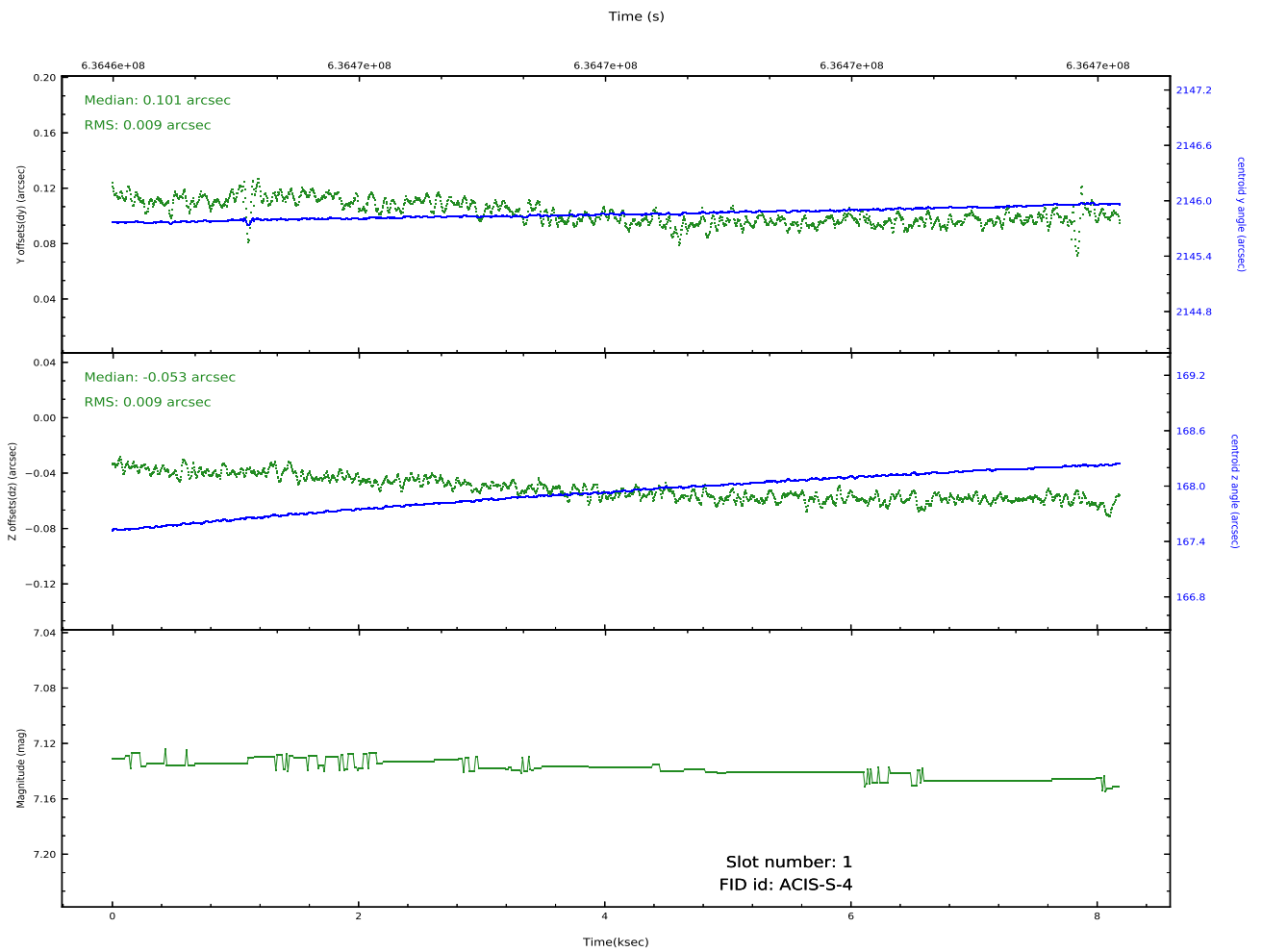
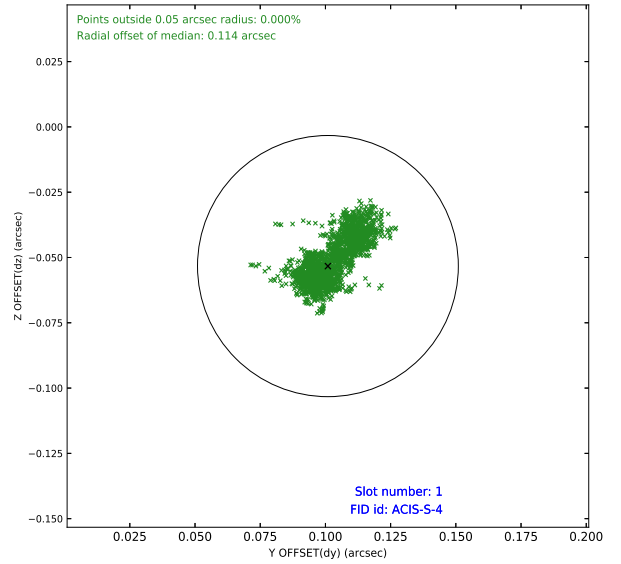
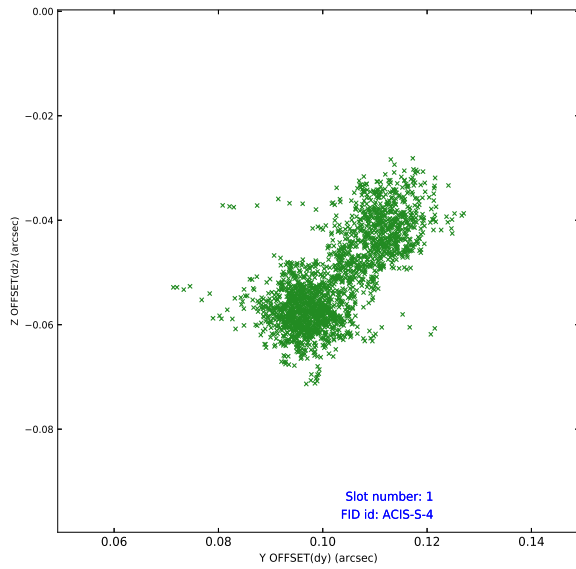


2.5 FID Slots

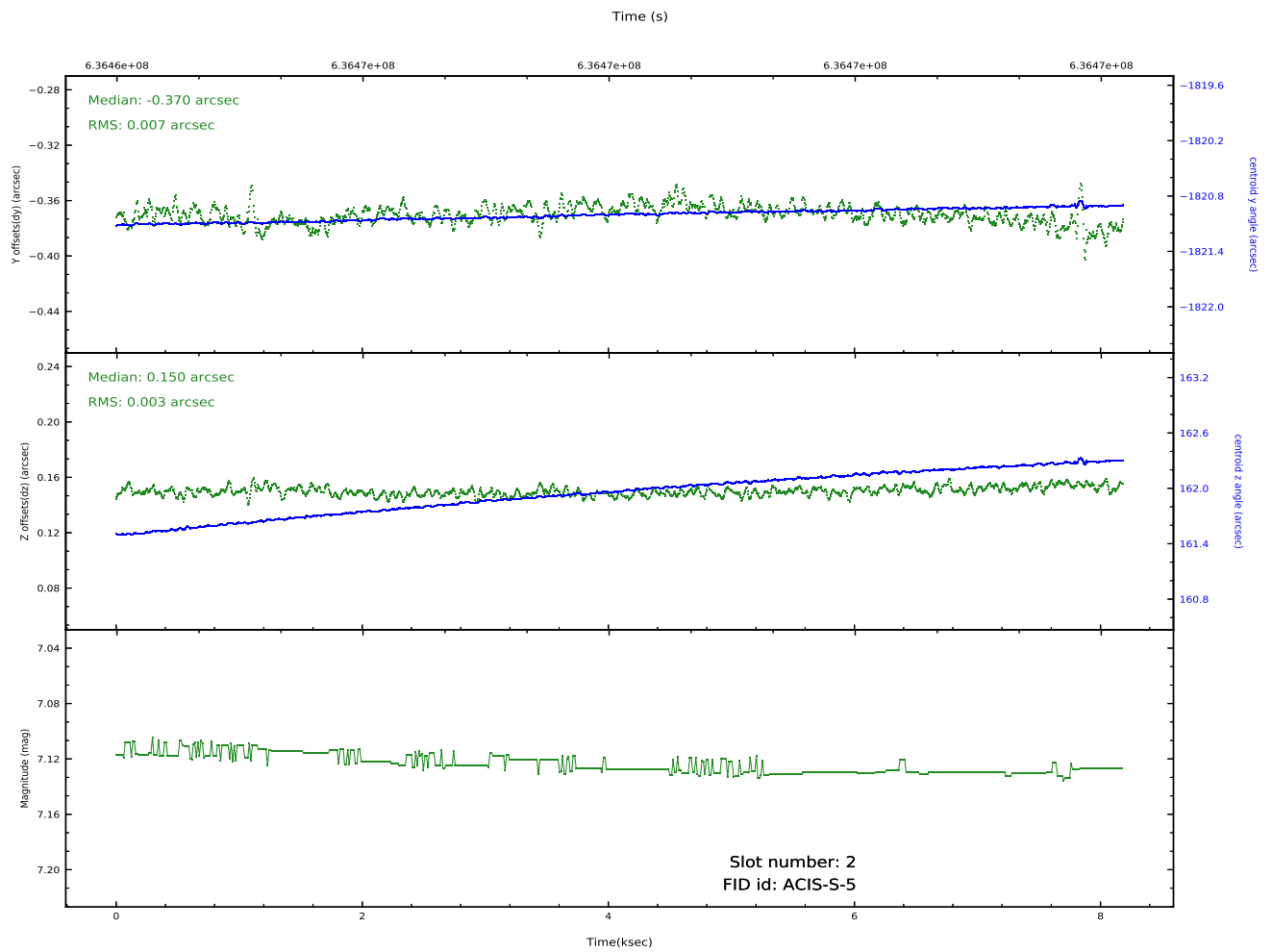
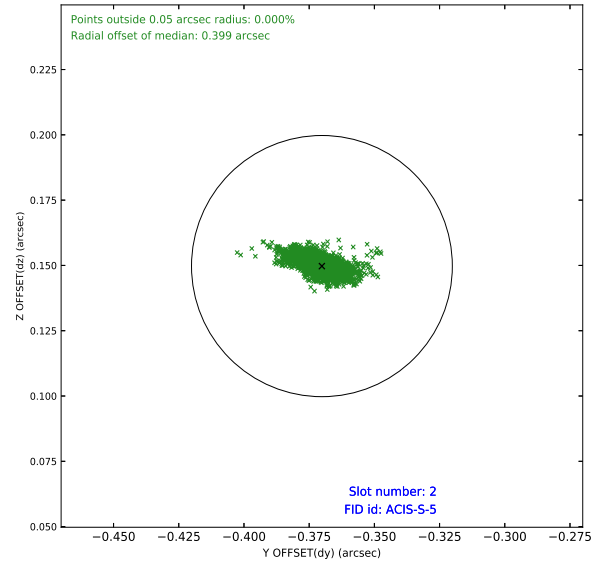
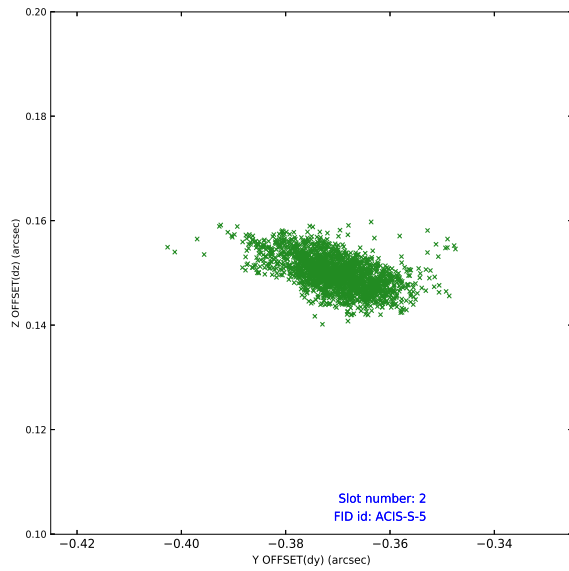
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	8.0777795455456

A.2 Comments