

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20383 - L2 Version 2
Chandra X-Ray Center

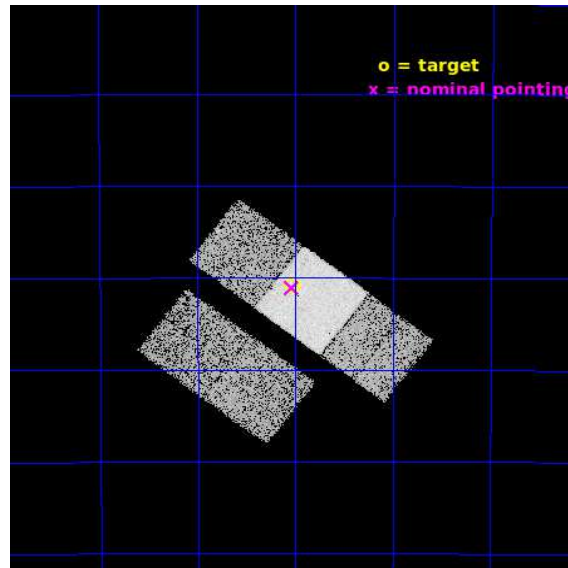
L2 Processing Date : Oct 27 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

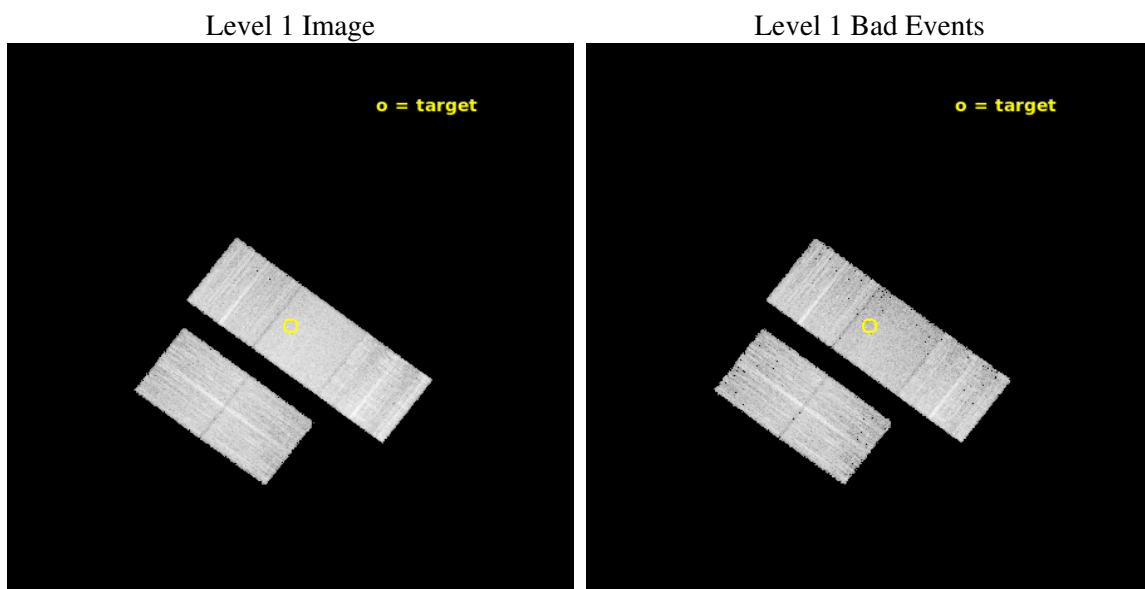
seq_num	703488	Sequence number
obs_id	20383	Observation id
title	HEAVILY REDDENED, LUMINOUS TYPE 1 QSOs: A TRANSITION POPULATION EMERGING FROM THE DUST	Proposal title
observer	Enrico Piconcelli	Principal investigator
object	VHSJ2257-4700	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	344.25875	Observer's specified target RA [deg]
dec_targ	-47.015694	Observer's specified target Dec [deg]
ra_nom	344.25907556651	Nominal RA [deg]
dec_nom	-47.017949628595	Nominal Dec [deg]
roll_nom	37.152057974456	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9057.5868235826	Sum of GTIs [s]
livetime	8939.2427836341	Livetime [s]
ontime2	9057.4226635695	Sum of GTIs [s]
ontime3	9057.504743576	Sum of GTIs [s]
ontime6	9057.545783639	Sum of GTIs [s]
ontime7	9057.5868235826	Sum of GTIs [s]
ontime8	9057.4637036324	Sum of GTIs [s]
l2events	63256	Number of level 2 events



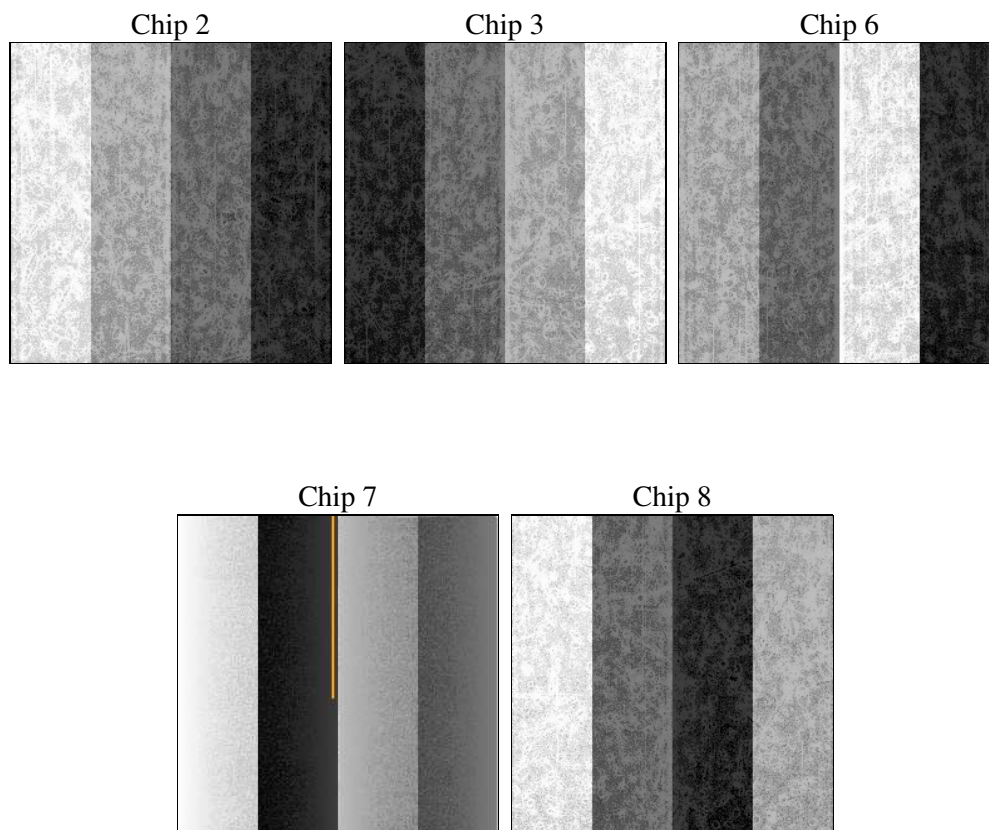
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9057.5868235826	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	9057.4226635695	Sum of GTIs [s]
date	2020-10-27T07:11:10	Date and time of file creation	ontime3	9057.504743576	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9057.545783639	Sum of GTIs [s]
			ontime7	9057.5868235826	Sum of GTIs [s]
			ontime8	9057.4637036324	Sum of GTIs [s]
			l1events	384516	Number of level 1 events

2.1.4 Events

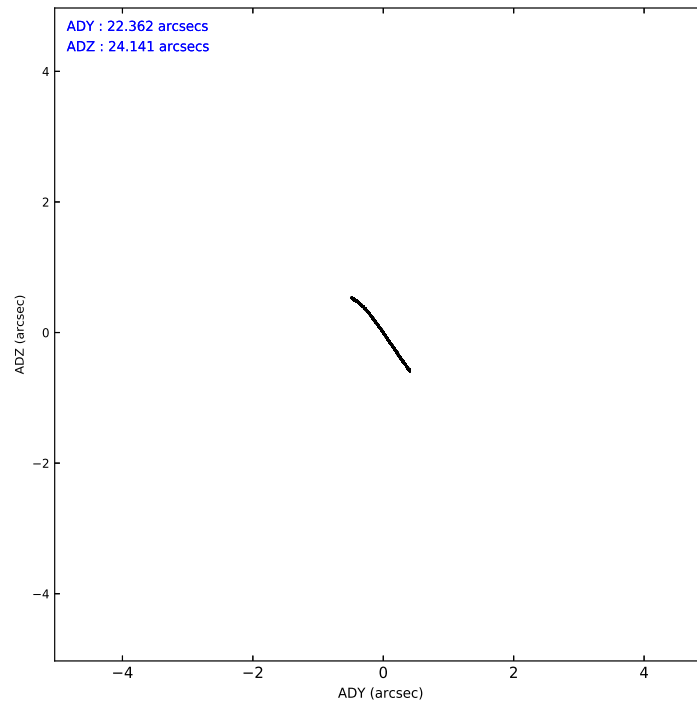
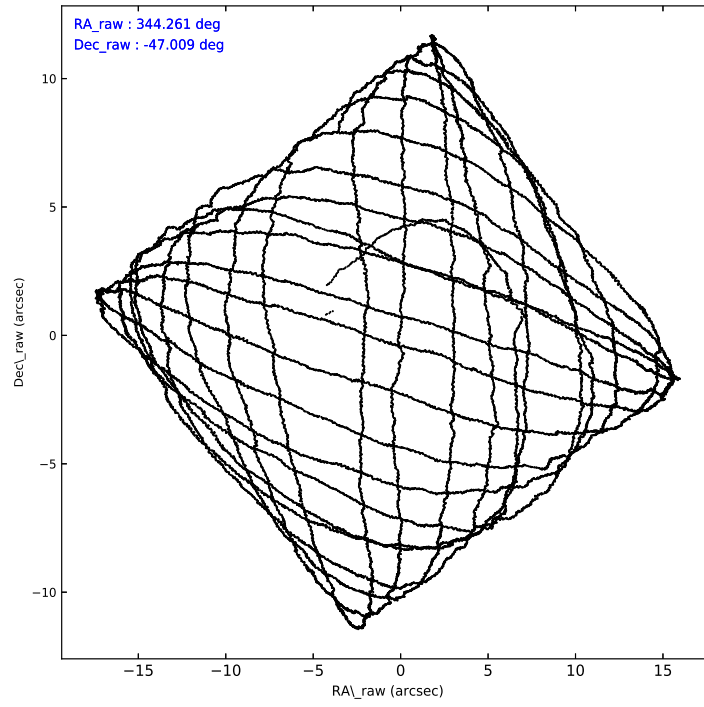
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	66508	67624	69031	86594	94759
rejected events	59121	60500	61140	49004	68297
rejected %	88%	89%	88%	56%	72%

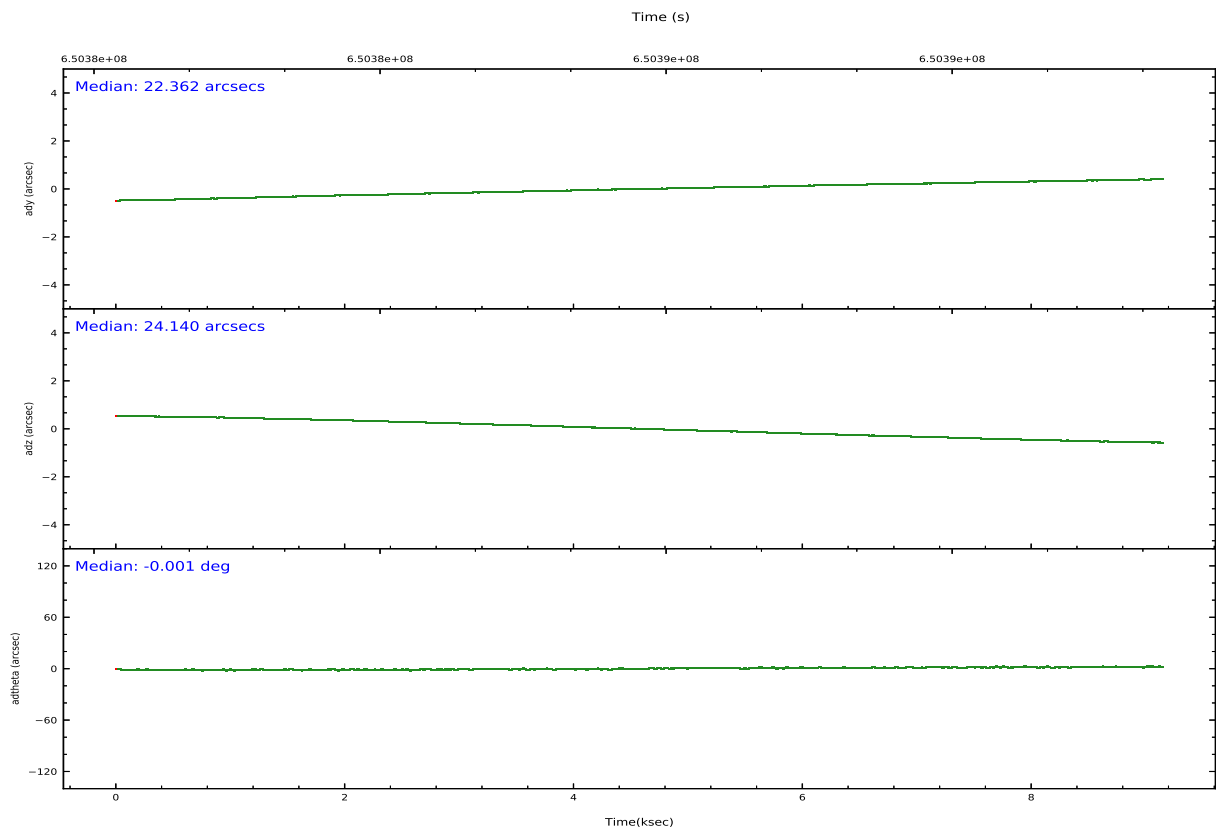
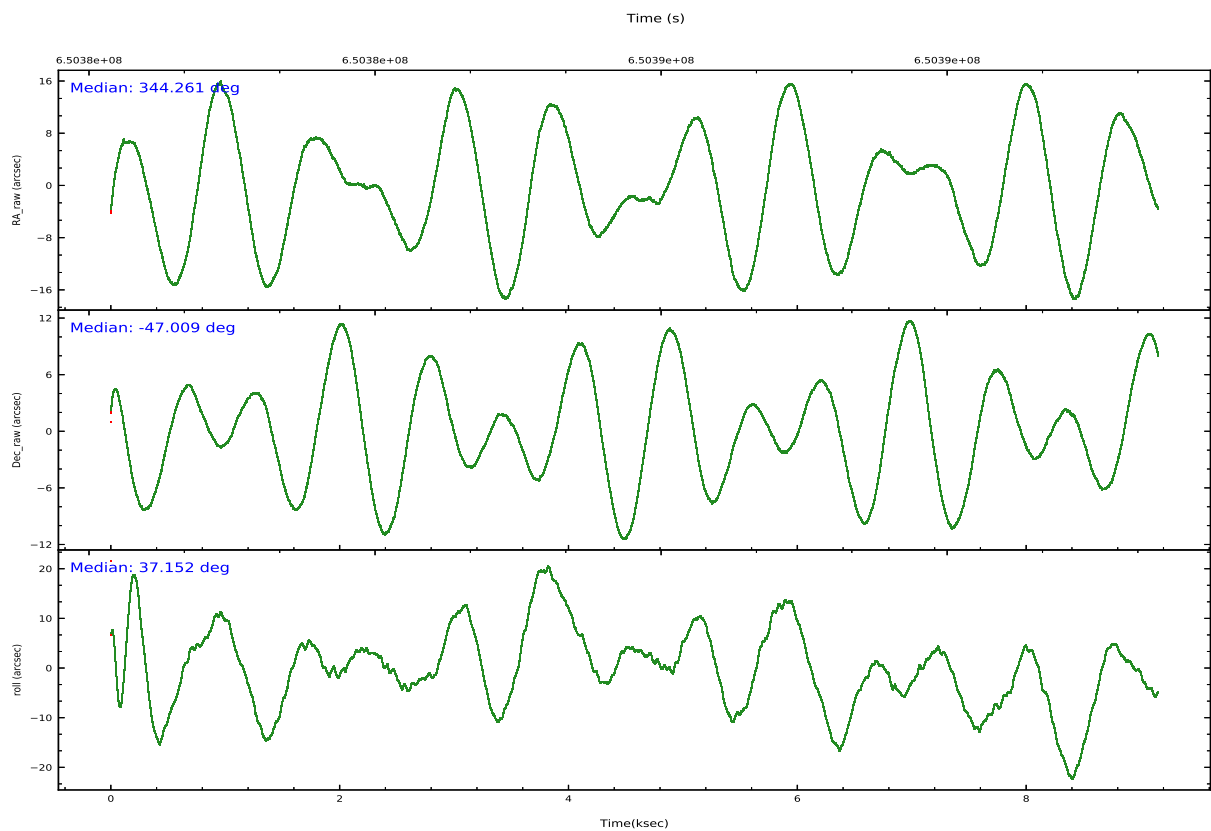
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2585	2494	2592	3159	7512
	3%	3%	3%	3%	7%
grade 1 events	33	45	42	124	75
	0%	0%	0%	0%	0%
grade 2 events	1852	1571	1816	8240	6444
	2%	2%	2%	9%	6%
grade 3 events	772	761	775	3004	2691
	1%	1%	1%	3%	2%
grade 4 events	746	772	823	2890	2530
	1%	1%	1%	3%	2%
grade 5 events	2653	3174	3308	8809	5002
	3%	4%	4%	10%	5%
grade 6 events	1442	1529	1888	20309	7290
	2%	2%	2%	23%	7%
grade 7 events	56425	57278	57787	40059	63215
	84%	84%	83%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	344.245241	344.25907556651	CCD I2 on	O1	Y
[deg] Pointing Dec	-47.033940	-47.017949628595	CCD I3 on	O2	Y
[deg] Pointing Roll	36.990119	37.152057974456	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	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O3	Y
[s] Observation start time (MET)	650382844.184000	650381544.72514	CCD S5 on	N	N
Observation start date	2018-08-11T13:52:55	2018-08-11T13:32:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	650391844.184000	650393288.66334	On-chip summing requested	N	N
Observation end date	2018-08-11T16:22:55	2018-08-11T16:48:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



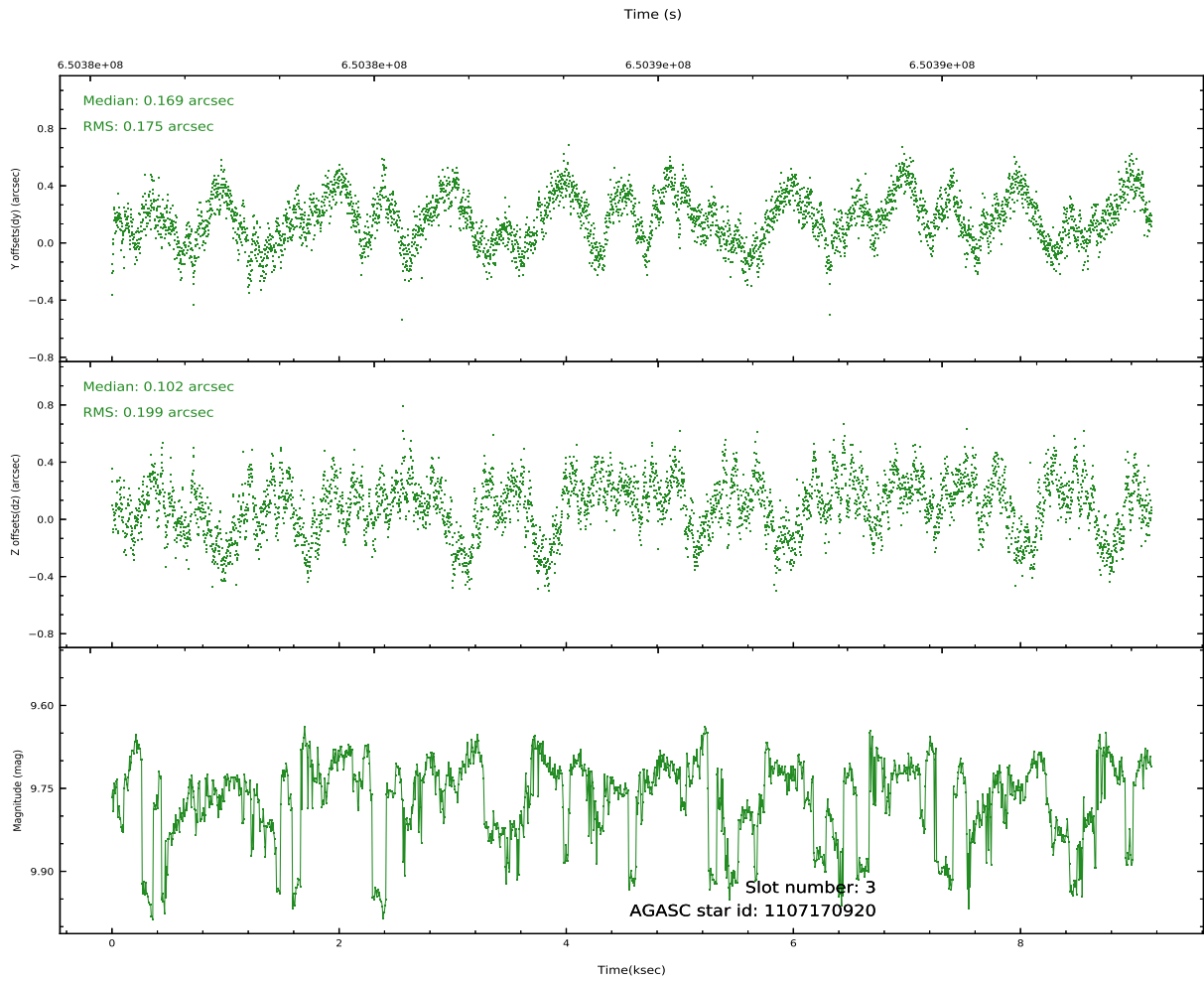
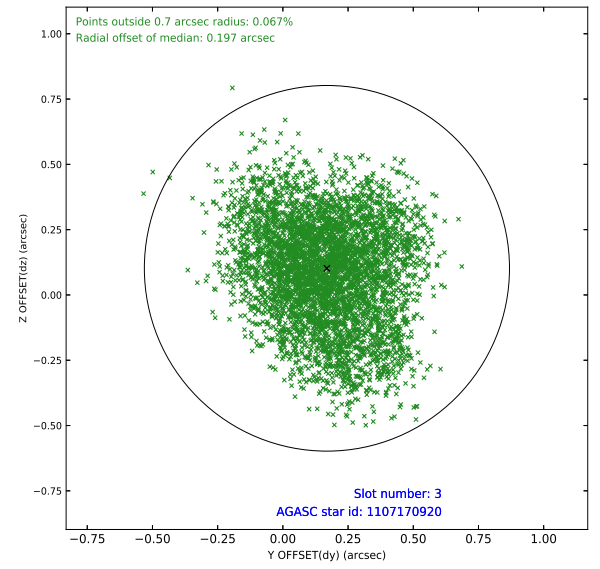
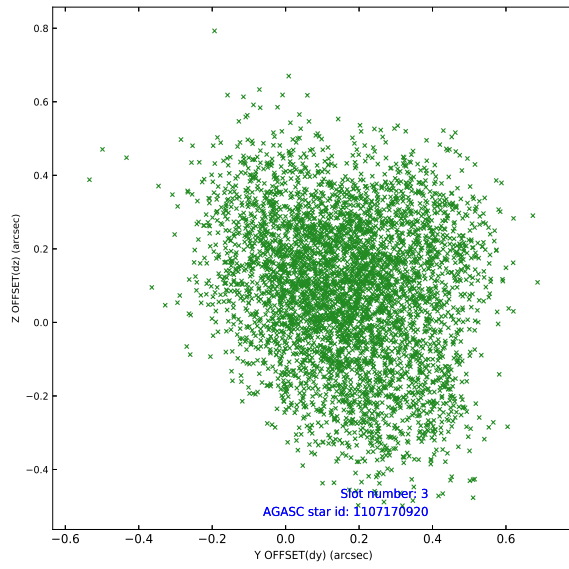


Slot Statistics

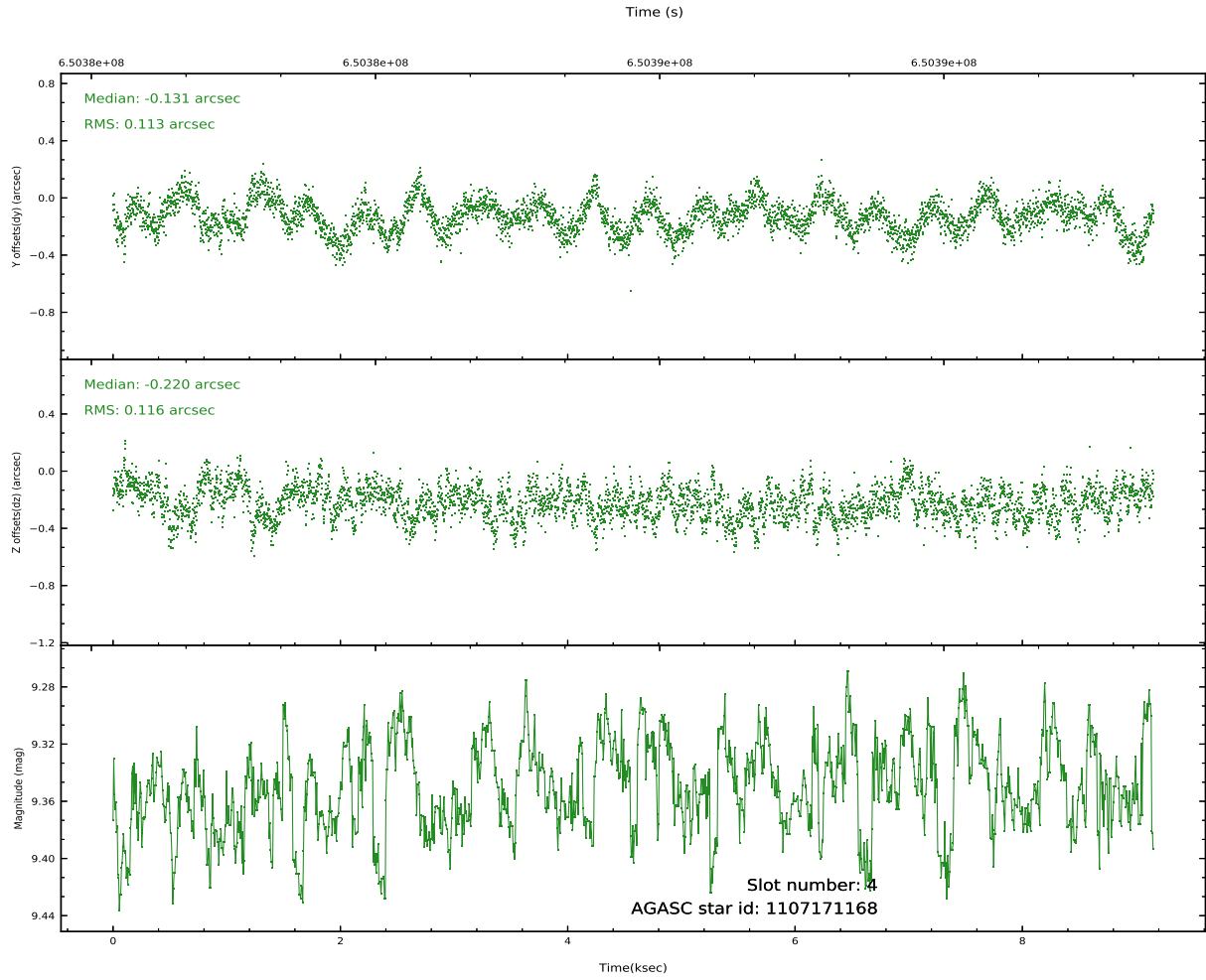
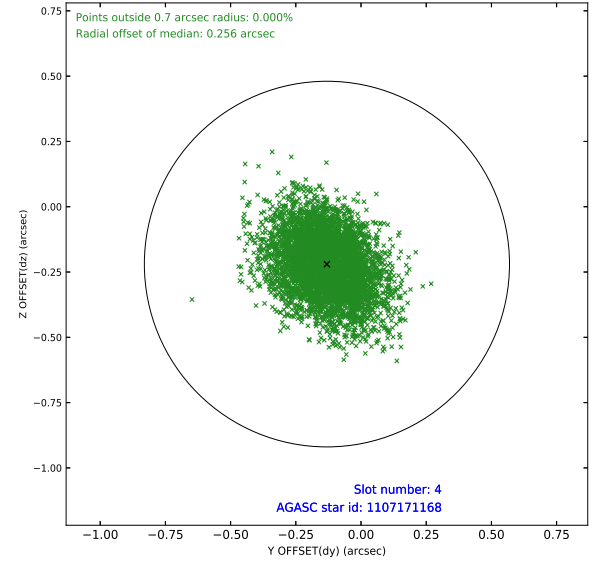
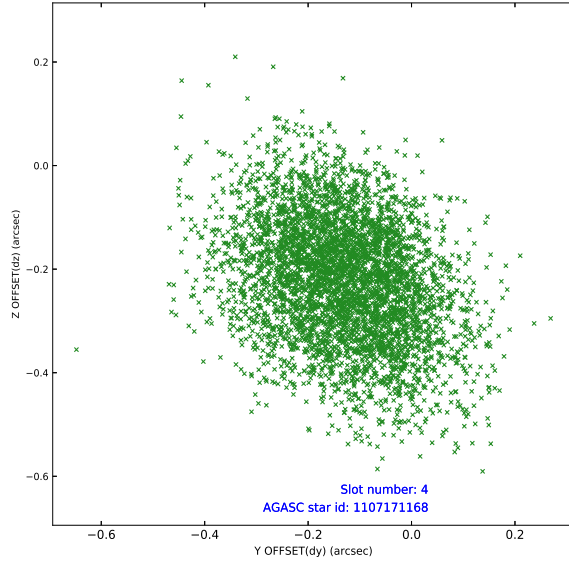
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.05	2233	1.000	0.259	-0.131	0.020	0.028	0.000000	0.000000	920.63	-1741
1	FID		ACIS-S-5	7.10	2233	1.000	-0.206	0.218	0.018	0.029	0.000000	0.000000	-1828.34	155
2	FID		ACIS-S-6	7.24	2233	1.000	-0.075	-0.076	0.030	0.042	0.000000	0.000000	385.42	800
3	GUIDE	used	1107170920	9.75	4456	1.000	0.169	0.102	0.291	0.443	344.425129	-47.270258	-160.54	-944
4	GUIDE	used	1107171168	9.35	4463	1.000	-0.131	-0.220	0.173	0.281	344.250564	-46.650819	840.17	1093
5	GUIDE	used	1107172920	9.85	4456	1.000	0.073	0.112	0.244	0.394	344.321638	-47.472837	-801.77	-1373
6	GUIDE	used	1107176184	8.82	4463	1.000	-0.081	-0.055	0.141	0.228	344.685070	-47.185445	529.43	-1085
7	GUIDE	used	1107177312	9.41	4459	1.000	-0.022	0.065	0.214	0.327	344.483077	-47.060112	409.45	-427

2.4 Star Slots

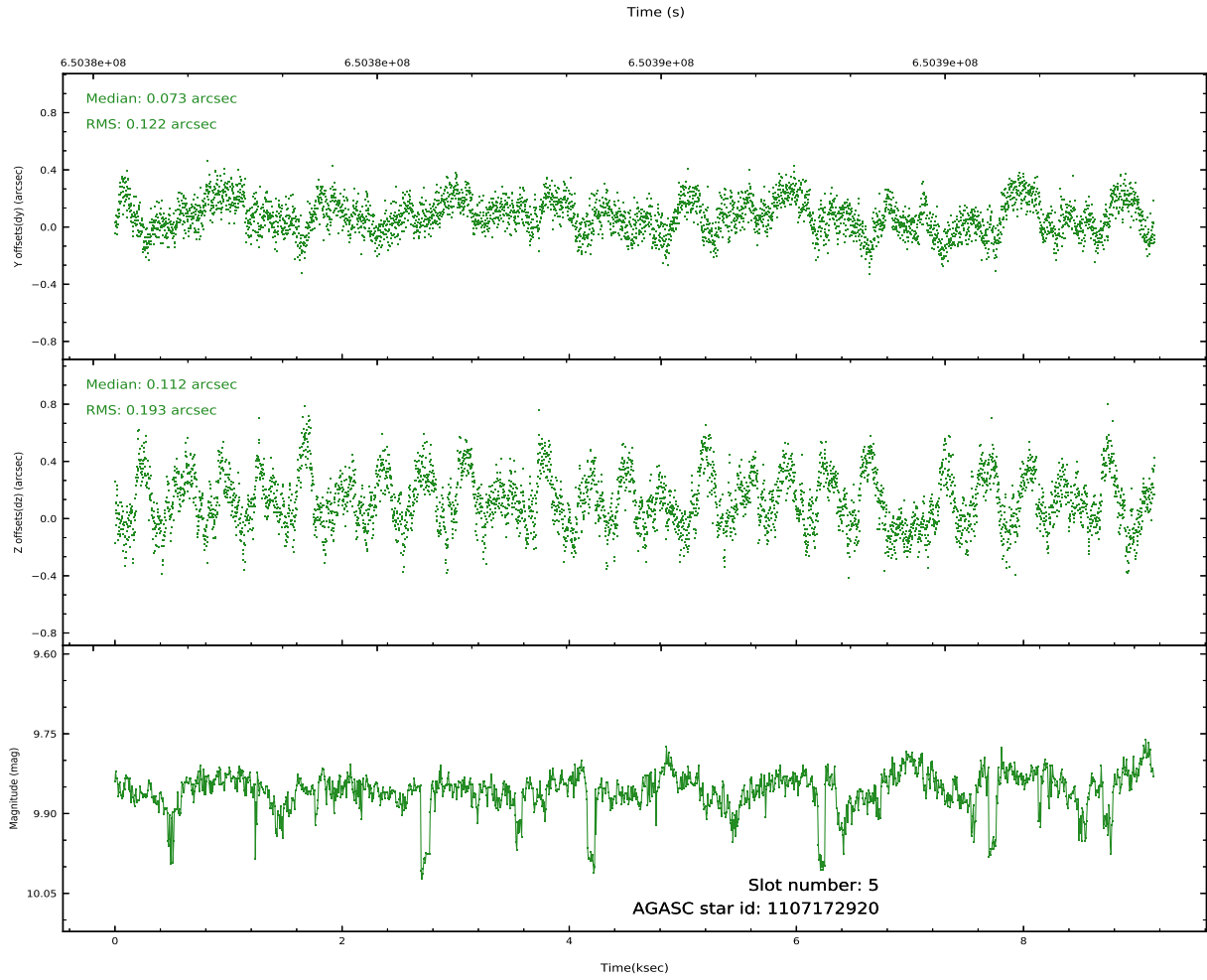
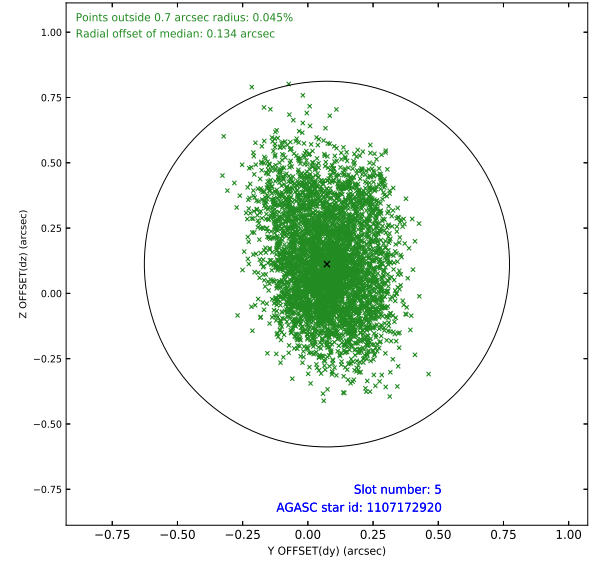
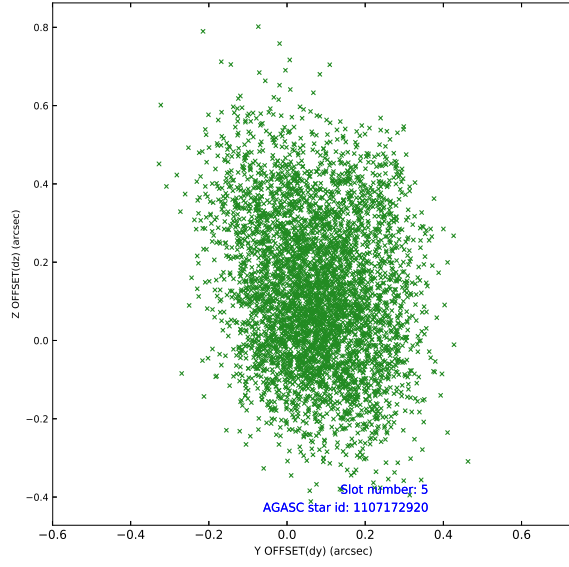
2.4.1 Slot 3



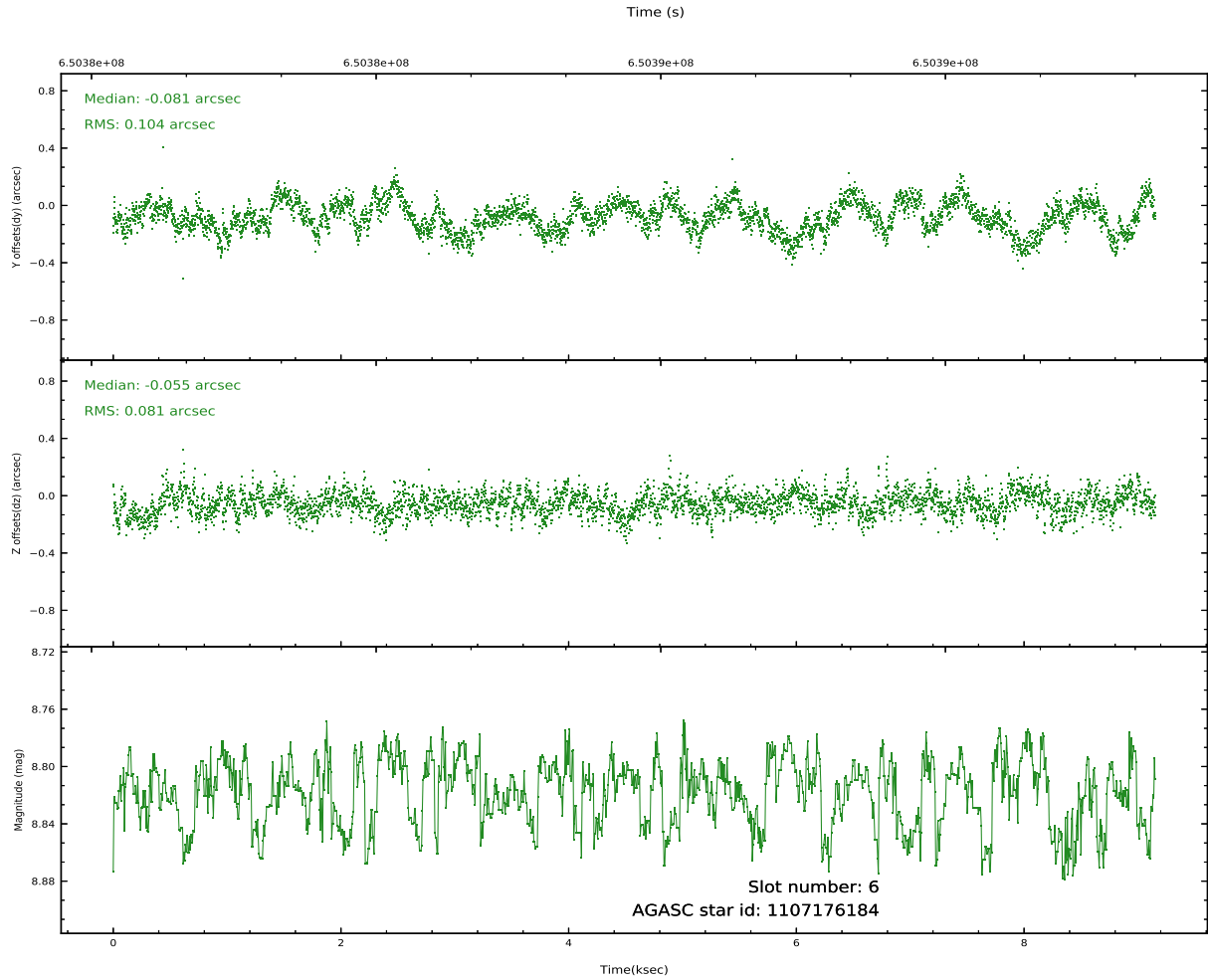
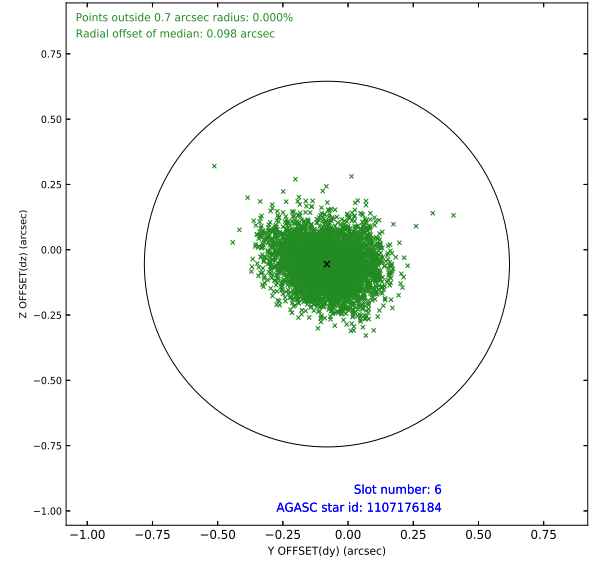
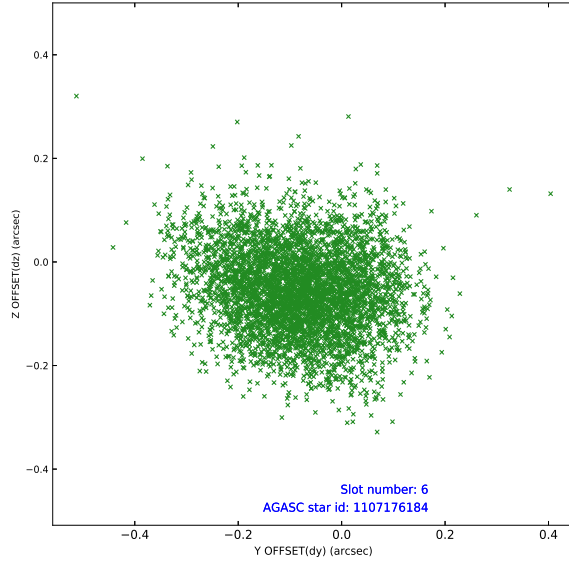
2.4.2 Slot 4



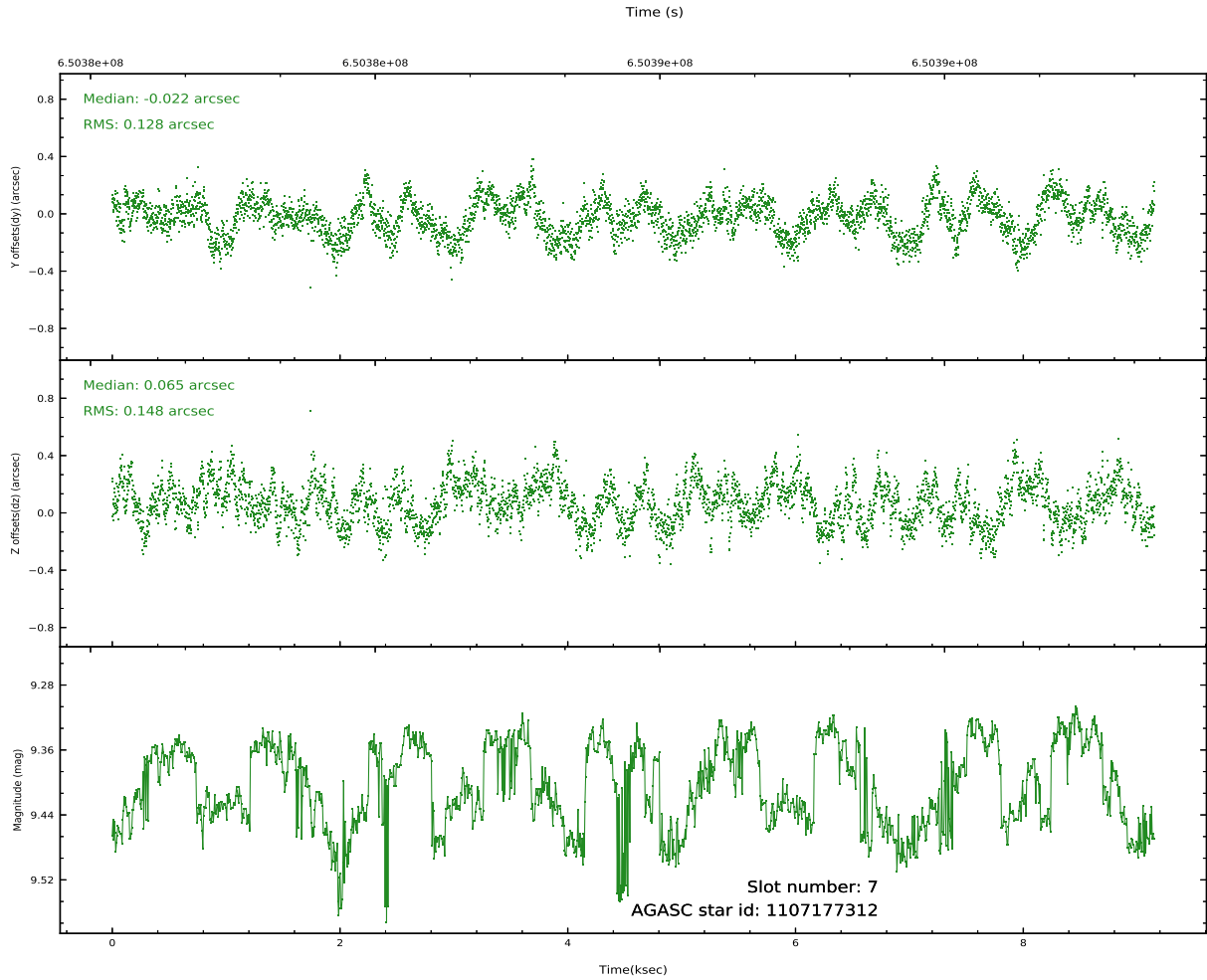
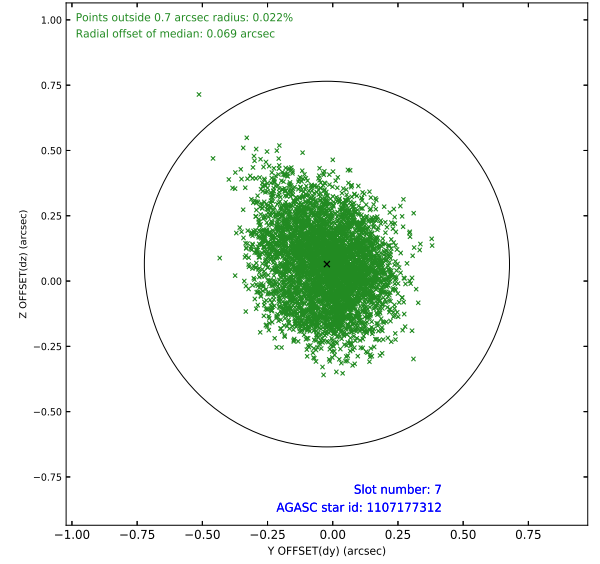
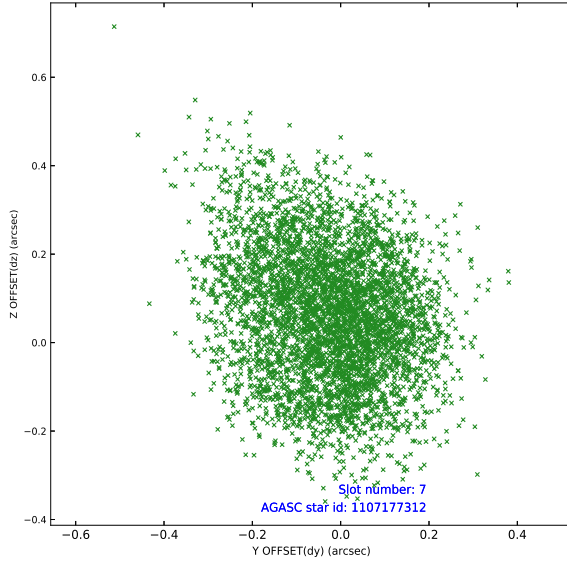
2.4.3 Slot 5



2.4.4 Slot 6

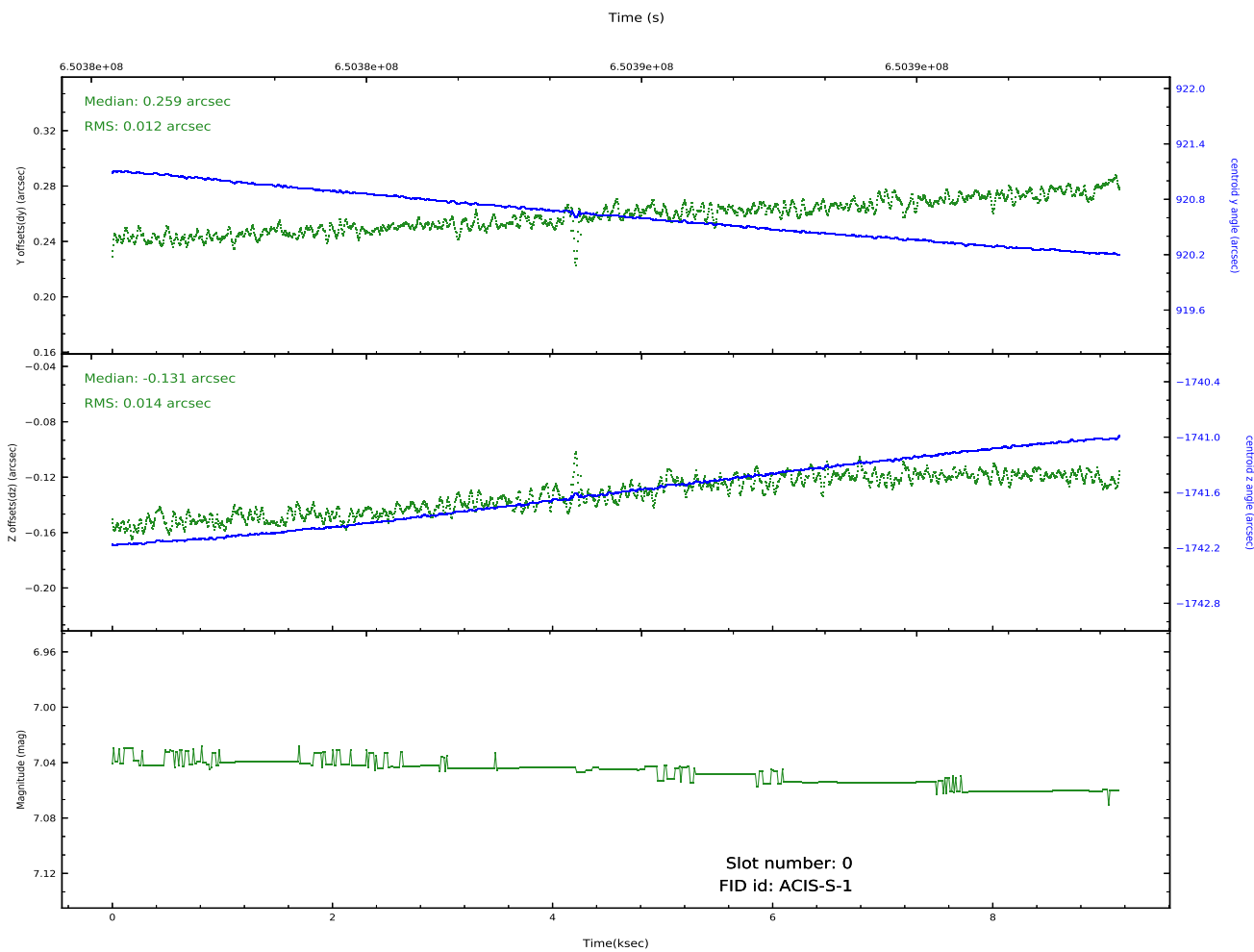
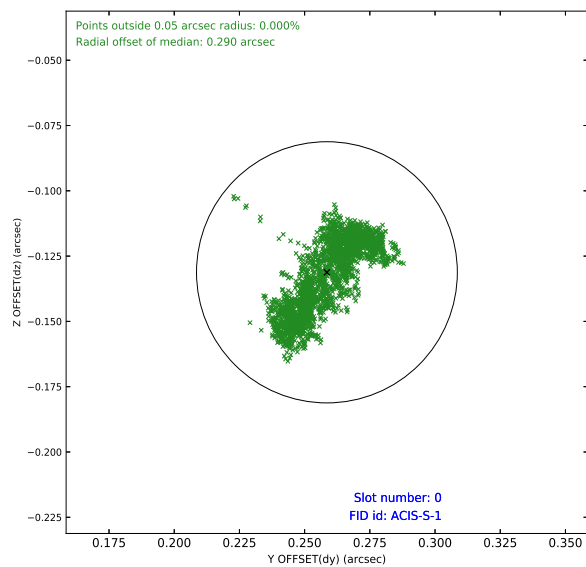
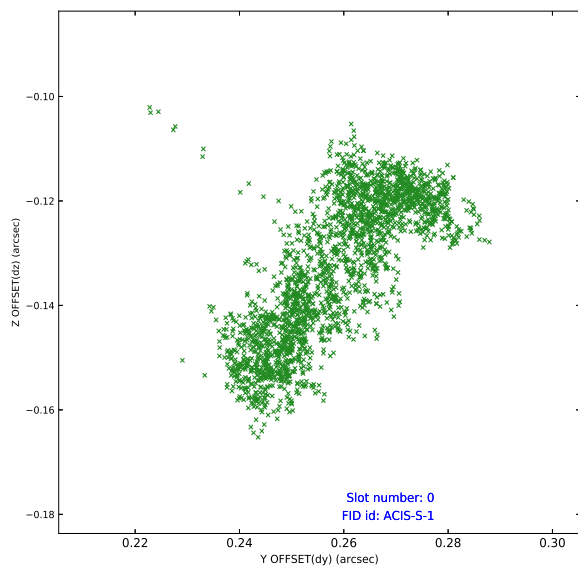


2.4.5 Slot 7

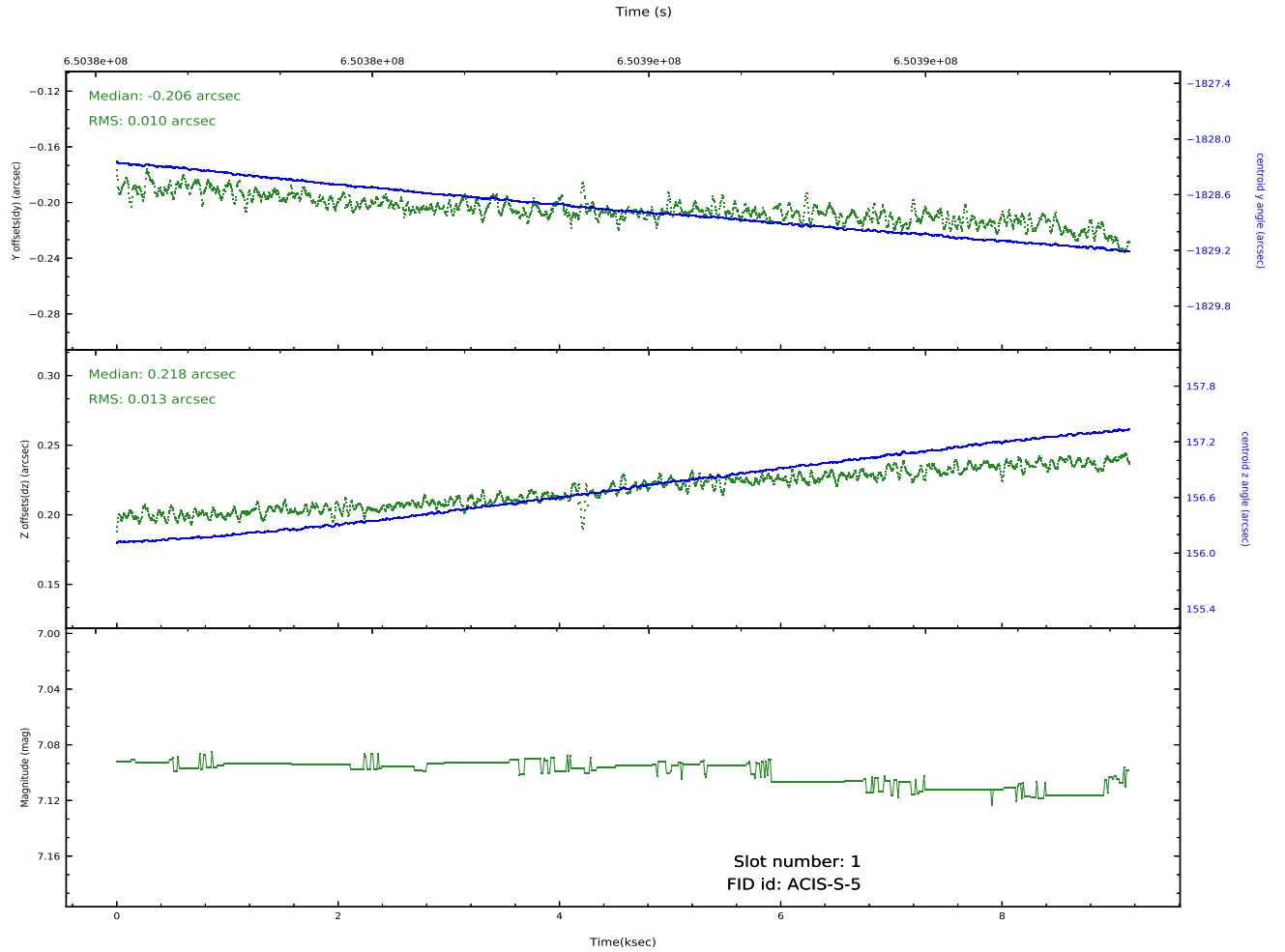
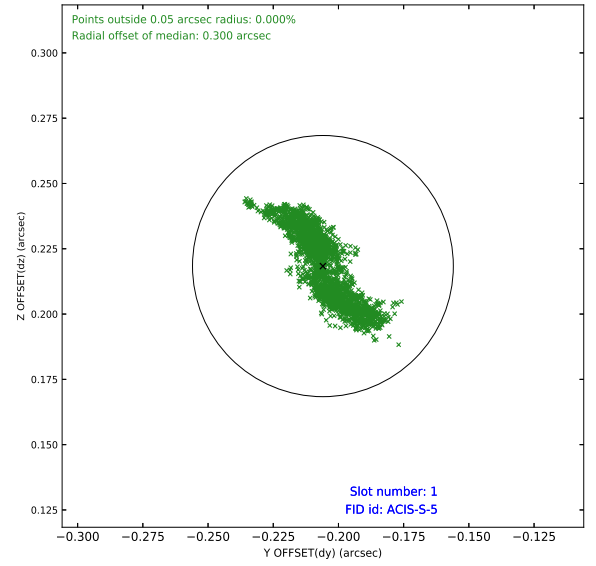
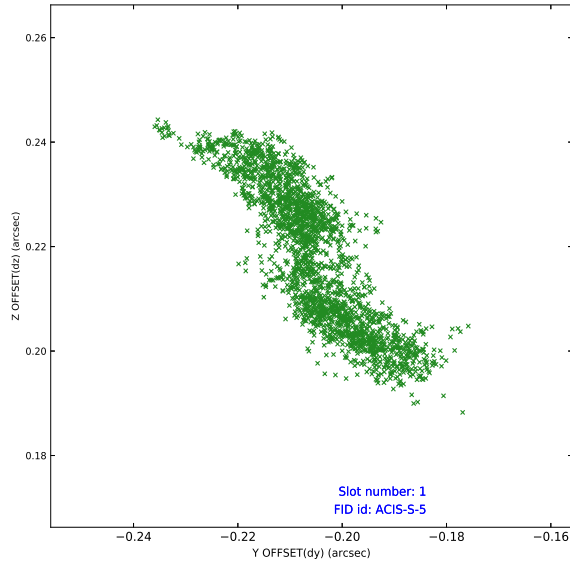


2.5 FID Slots

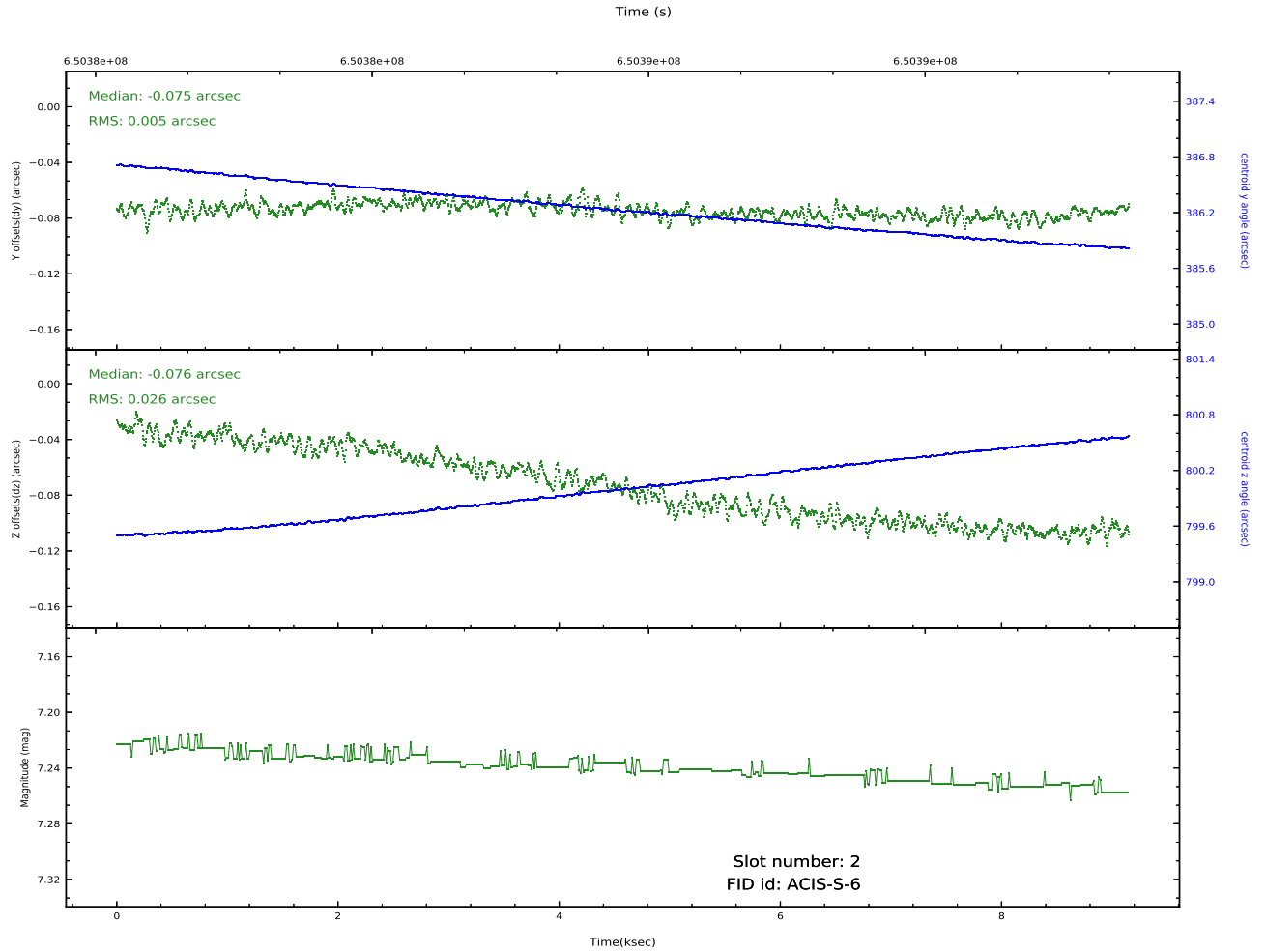
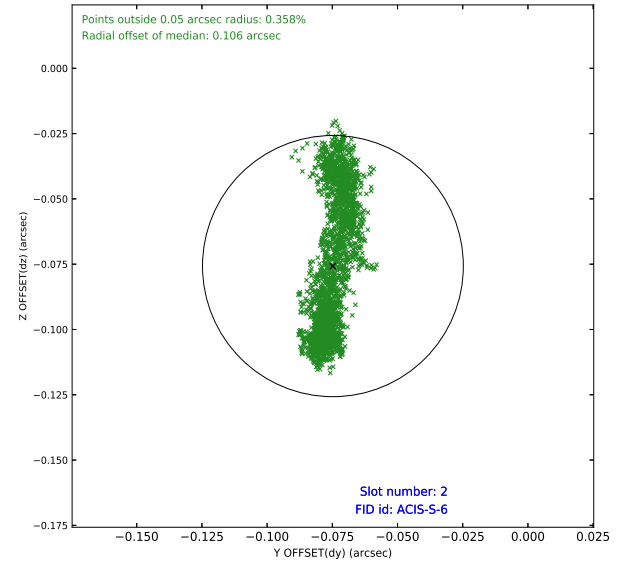
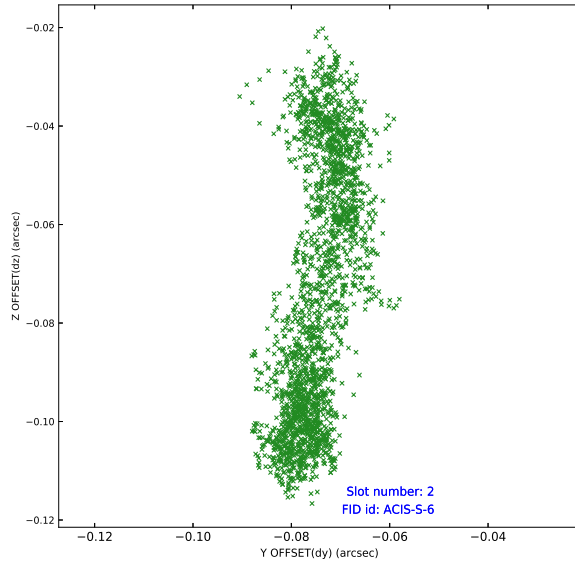
2.5.1 Slot 0



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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0575868259668

A.2 Comments