

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4699 - L2 Version 4
Chandra X-Ray Center

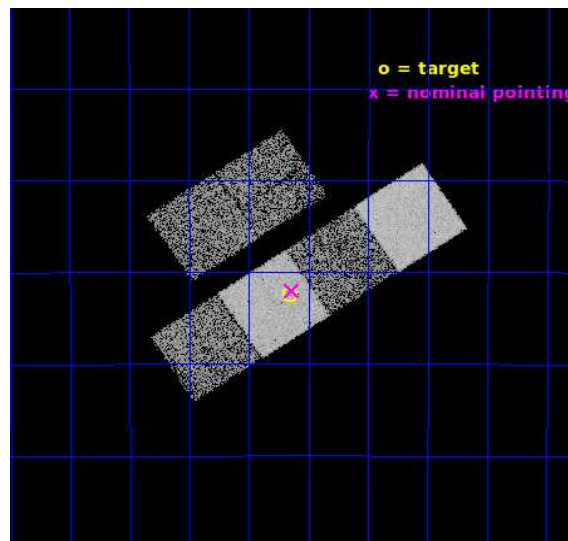
L2 Processing Date : Sep 25 2020

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

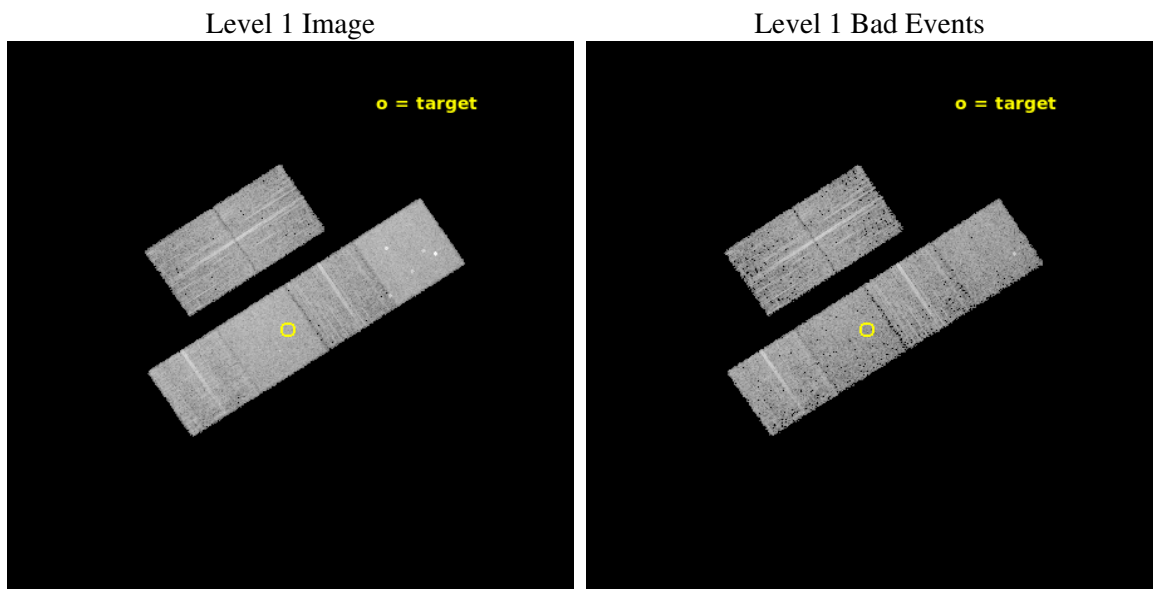
seq_num	600354	Sequence number
obs_id	4699	Observation id
title	Using the Sculptor Dwarf Spheroidal Galaxy to Constrain X-ray Binary Production in Population II	Proposal title
observer	Thomas Maccarone	Principal investigator
object	SCULPTOR DWARF SPHEROIDAL	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.039167	Observer's specified target RA [deg]
dec_targ	-33.708889	Observer's specified target Dec [deg]
ra_nom	15.034878424859	Nominal RA [deg]
dec_nom	-33.700545380657	Nominal Dec [deg]
roll_nom	146.41849604356	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6355.199976325	Sum of GTIs [s]
livetime	6274.7266075828	Livetime [s]
ontime2	6355.199976325	Sum of GTIs [s]
ontime3	6355.199976325	Sum of GTIs [s]
ontime5	6355.199976325	Sum of GTIs [s]
ontime6	6355.199976325	Sum of GTIs [s]
ontime7	6355.199976325	Sum of GTIs [s]
ontime8	6355.199976325	Sum of GTIs [s]
l2events	72909	Number of level 2 events



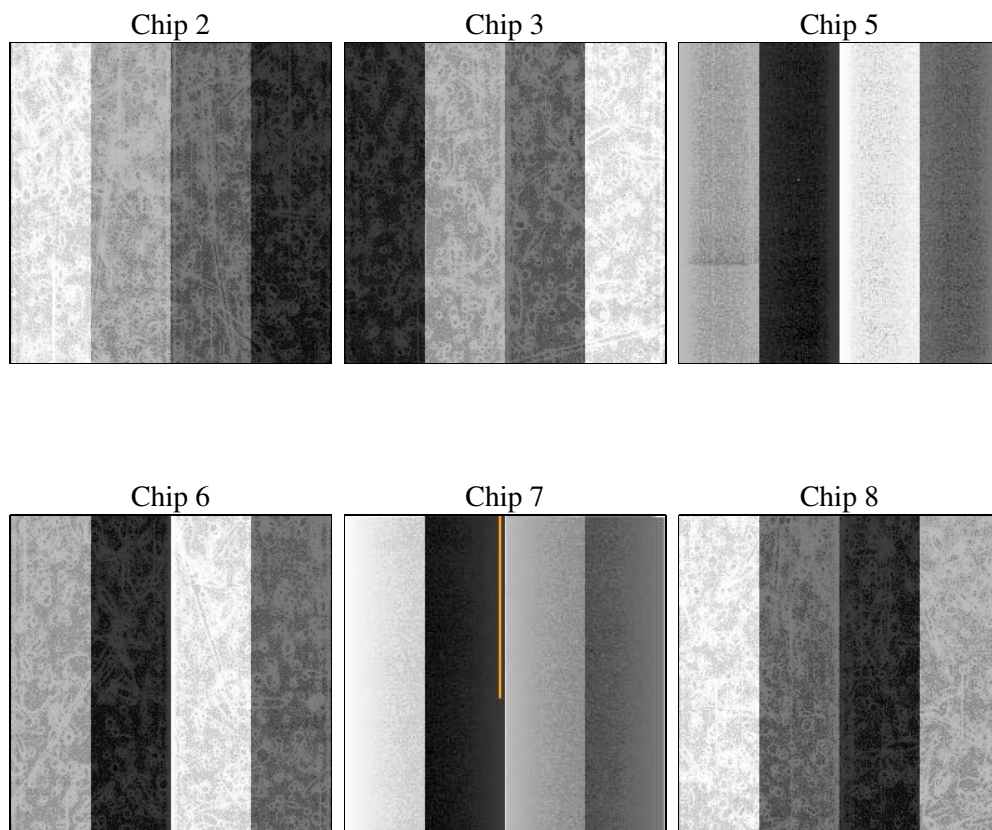
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6200.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	6355.199976325	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	6355.199976325	Sum of GTIs [s]
date	2020-09-25T18:51:02	Date and time of file creation	ontime3	6355.199976325	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	6355.199976325	Sum of GTIs [s]
			ontime6	6355.199976325	Sum of GTIs [s]
			ontime7	6355.199976325	Sum of GTIs [s]
			ontime8	6355.199976325	Sum of GTIs [s]
			l1events	371438	Number of level 1 events

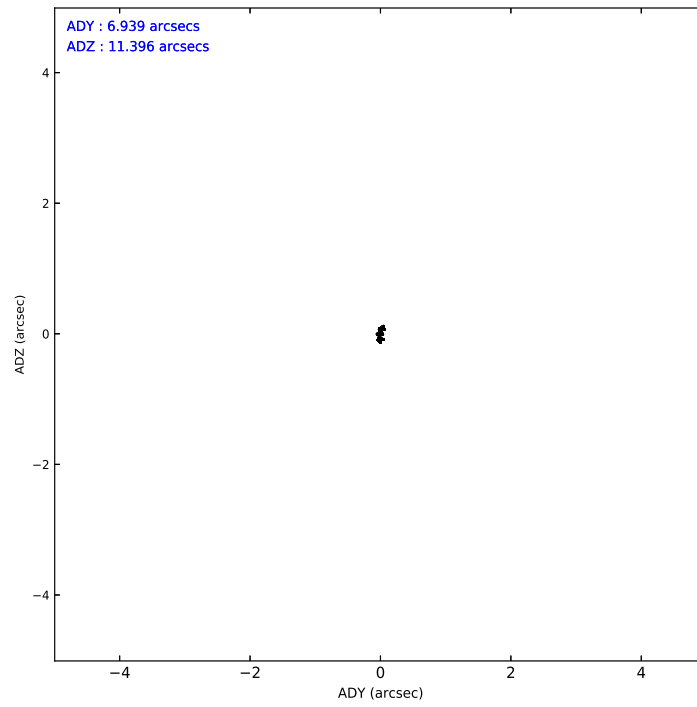
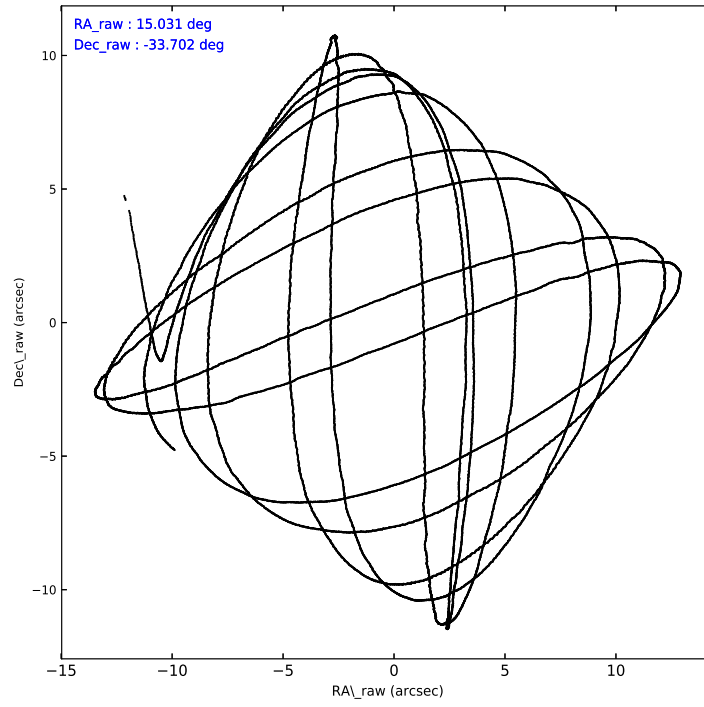
2.1.4 Events

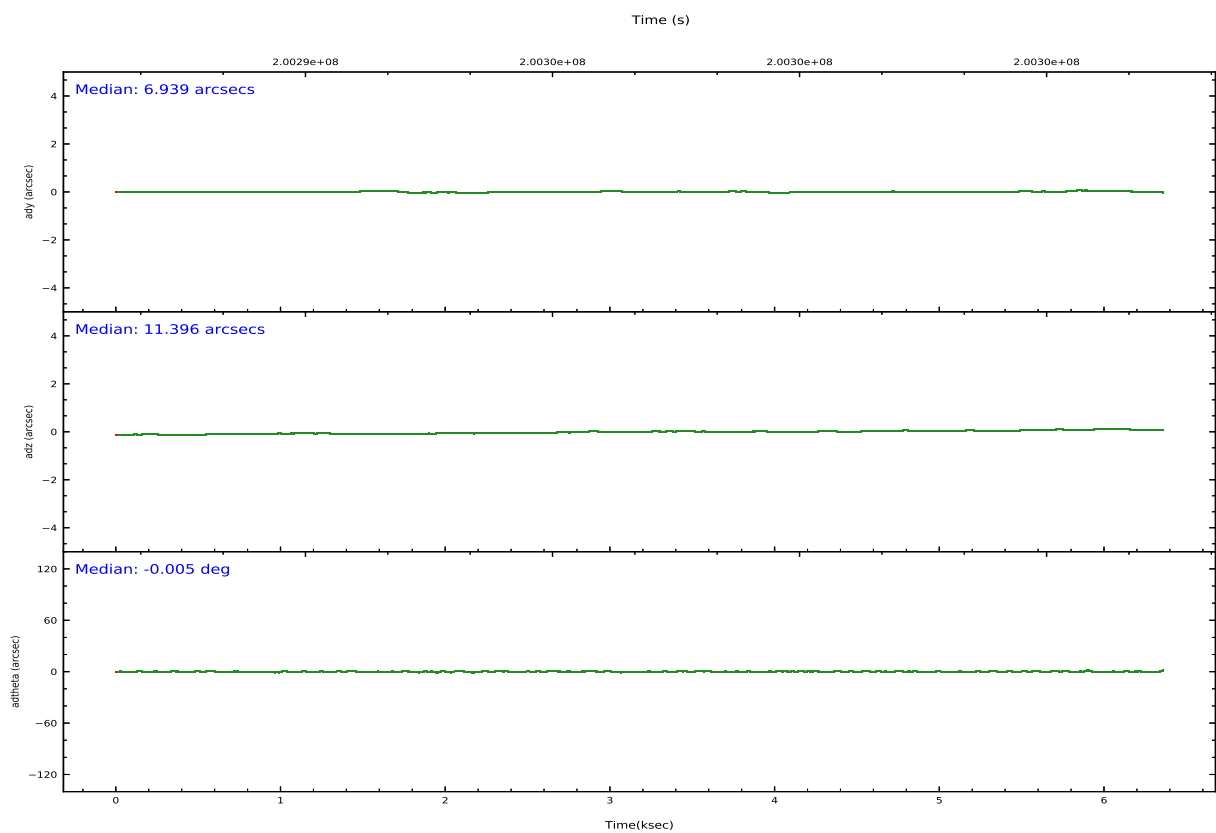
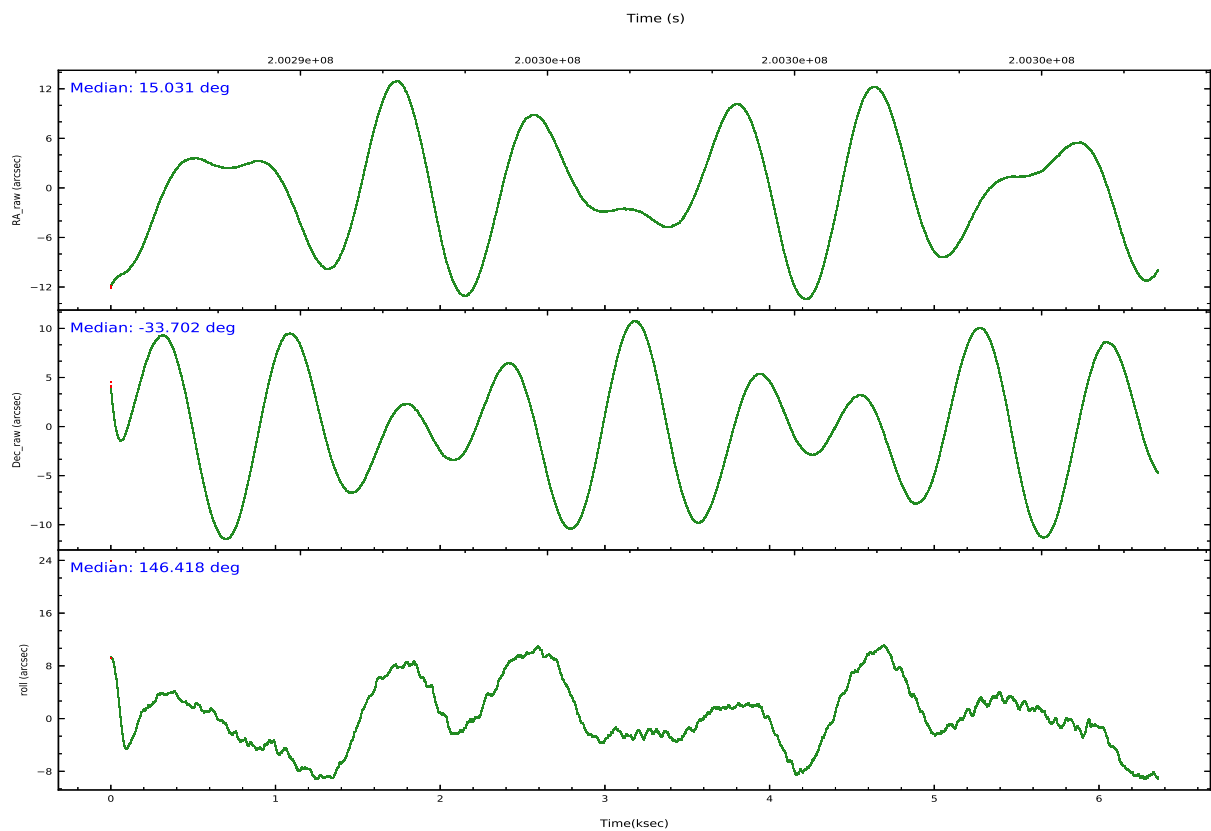
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	54511	50578	78879	53499	69124	64847	grade 0 events	2711	2562	4733	2436	2641	4291
rejected events	48982	45267	46408	48138	43699	52587		4%	5%	6%	4%	3%	6%
rejected %	89%	89%	58%	89%	63%	81%	grade 1 events	38	27	398	30	70	42
								0%	0%	0%	0%	0%	0%
							grade 2 events	1341	1151	10905	1181	5627	3063
								2%	2%	13%	2%	8%	4%
							grade 3 events	603	629	1457	647	2516	1385
								1%	1%	1%	1%	3%	2%
							grade 4 events	574	611	1336	610	2513	1317
								1%	1%	1%	1%	3%	2%
							grade 5 events	2141	2224	5550	2421	6654	3124
								3%	4%	7%	4%	9%	4%
							grade 6 events	1061	1026	18256	1228	15353	3703
								1%	2%	23%	2%	22%	5%
							grade 7 events	46042	42348	36244	44946	33750	47922
								84%	83%	45%	84%	48%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	15.063456	15.034878424859	Subarray requested	NONE	NONE
[deg] Pointing Dec	-33.703541	-33.700545380657	Alternating exposures requested	N	N
[deg] Pointing Roll	146.283183	146.41849604356	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	200293509.184000	200292038.6171			
Observation start date	2004-05-07T05:04:05	2004-05-07T04:40:38			
[s] Observation end time (MET)	200299709.184000	200300464.62997			
Observation end date	2004-05-07T06:47:25	2004-05-07T07:01:04			
Read mode	TIMED	TIMED			

2.3 Aspect



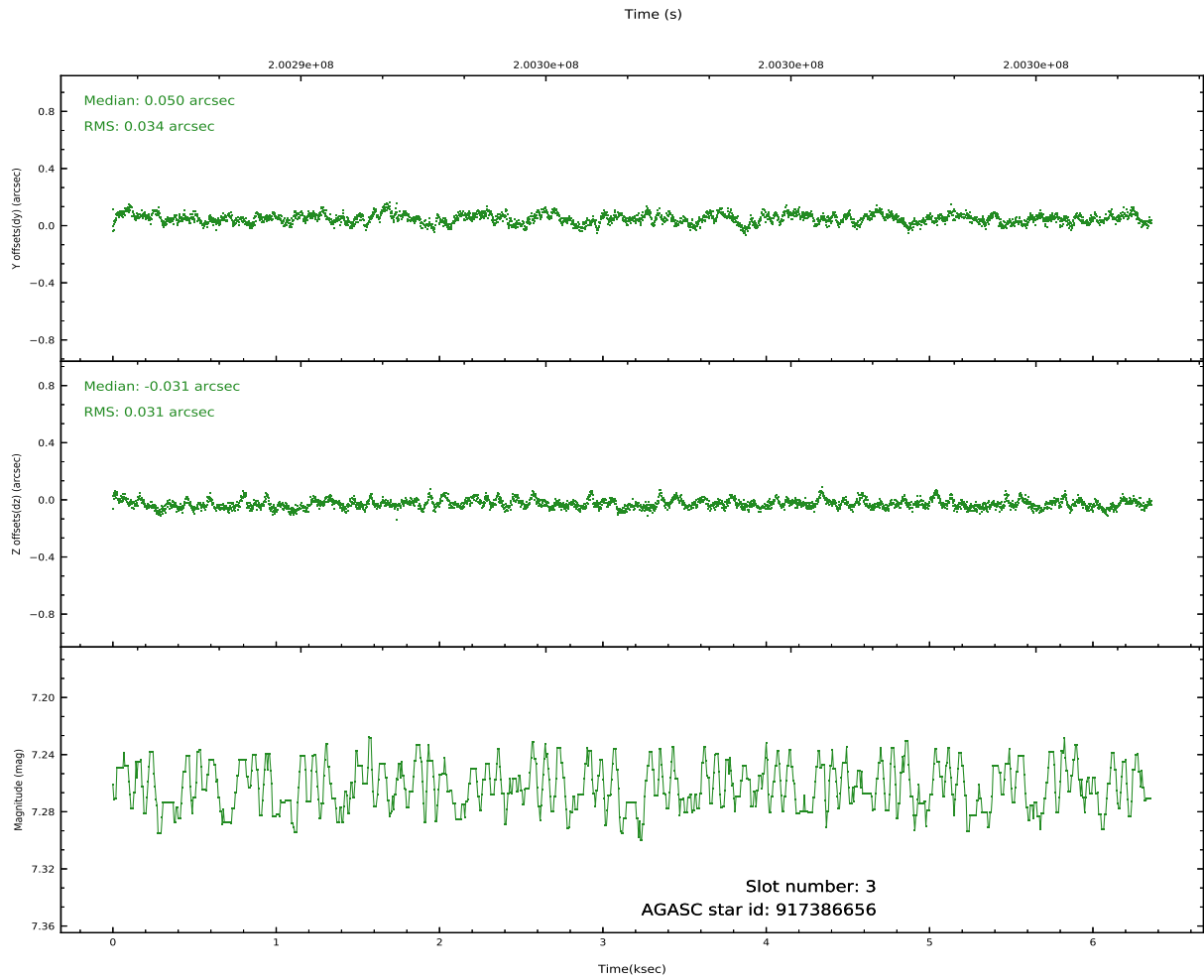
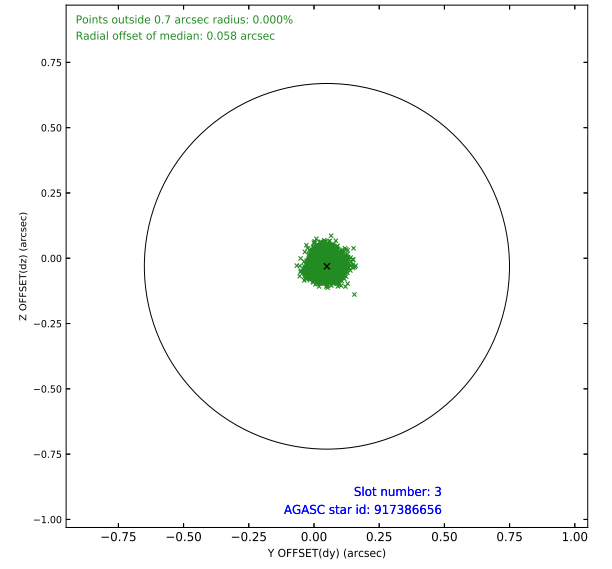
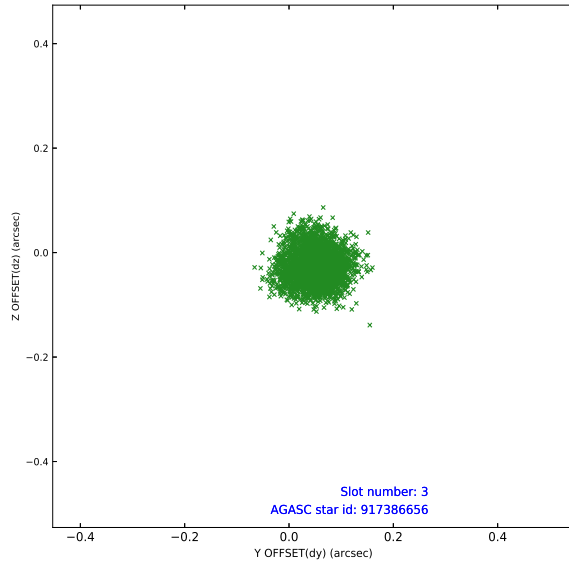


Slot Statistics

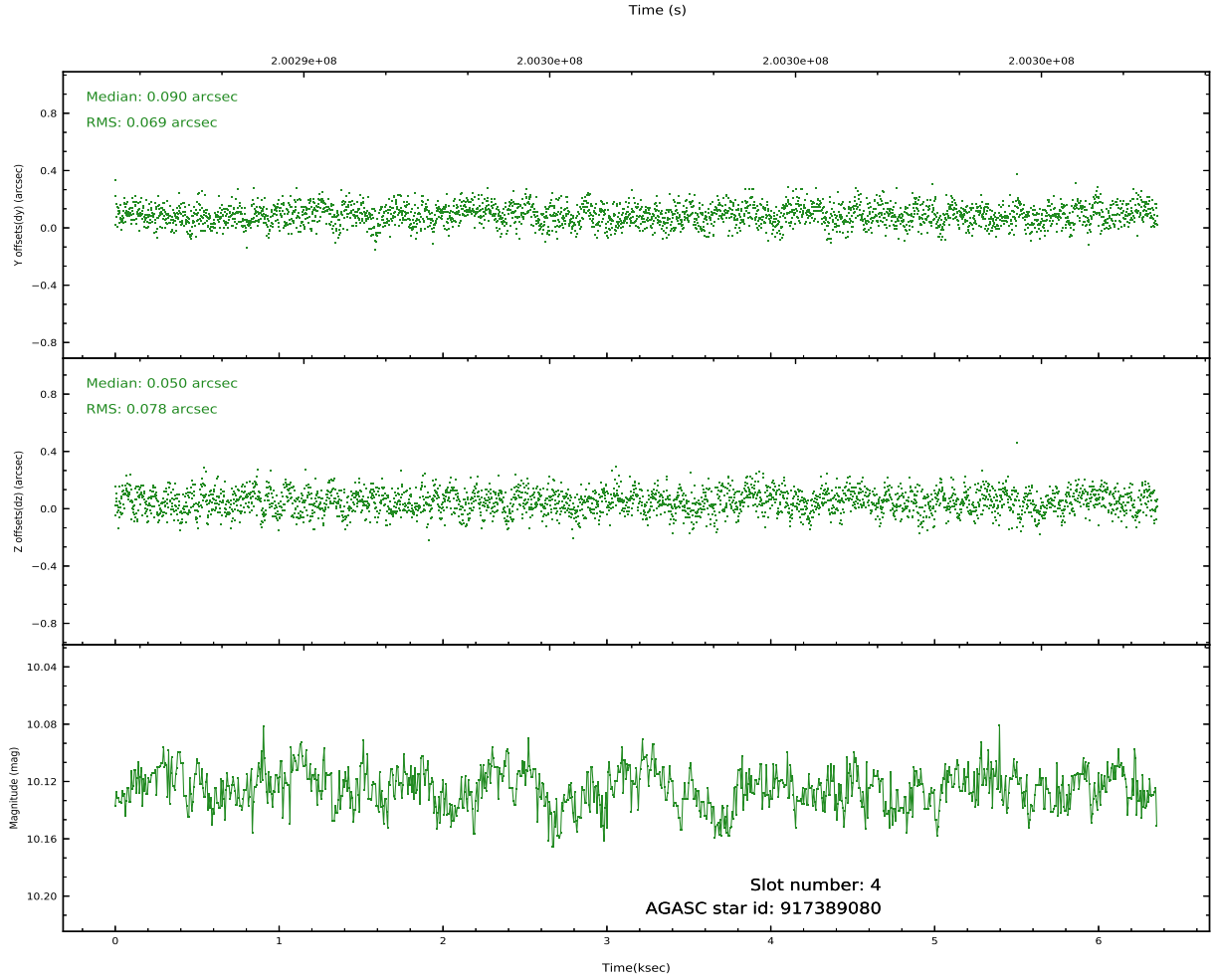
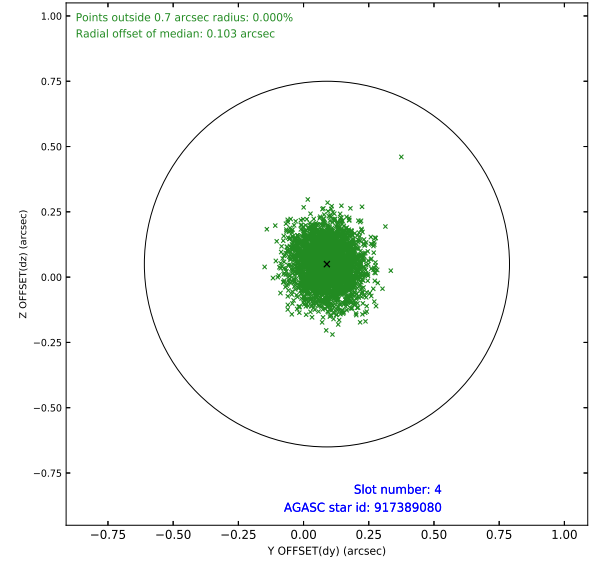
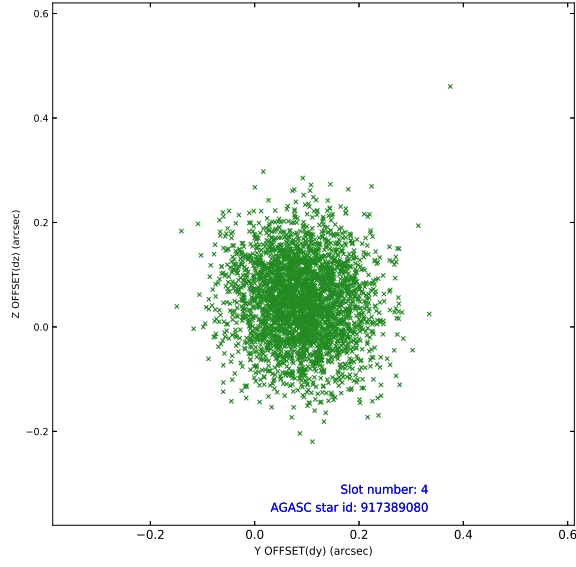
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1552	1.000	-0.085	-0.073	0.006	0.011	0.000000	0.000000	-759.74	-1732
1	FID		ACIS-S-4	7.20	1552	1.000	0.079	0.035	0.006	0.010	0.000000	0.000000	2153.24	174
2	FID		ACIS-S-6	7.34	1552	1.000	-0.021	0.045	0.007	0.011	0.000000	0.000000	403.44	813
3	GUIDE	used	917386656	7.26	3102	1.000	0.050	-0.031	0.050	0.079	15.342124	-33.359890	-10.73	-1493
4	GUIDE	used	917389080	10.12	3099	1.000	0.090	0.050	0.112	0.180	15.722484	-33.662555	-1564.03	-1214
5	GUIDE	used	917389288	9.57	3100	1.000	-0.014	0.173	0.103	0.167	15.394706	-33.185862	203.10	-2102
6	GUIDE	used	917650528	8.72	3102	1.000	-0.127	-0.150	0.081	0.126	14.274554	-33.869842	1623.70	1814
7	GUIDE	used	917651768	9.63	3099	1.000	0.004	-0.050	0.117	0.182	14.115744	-33.817552	2122.72	1926

2.4 Star Slots

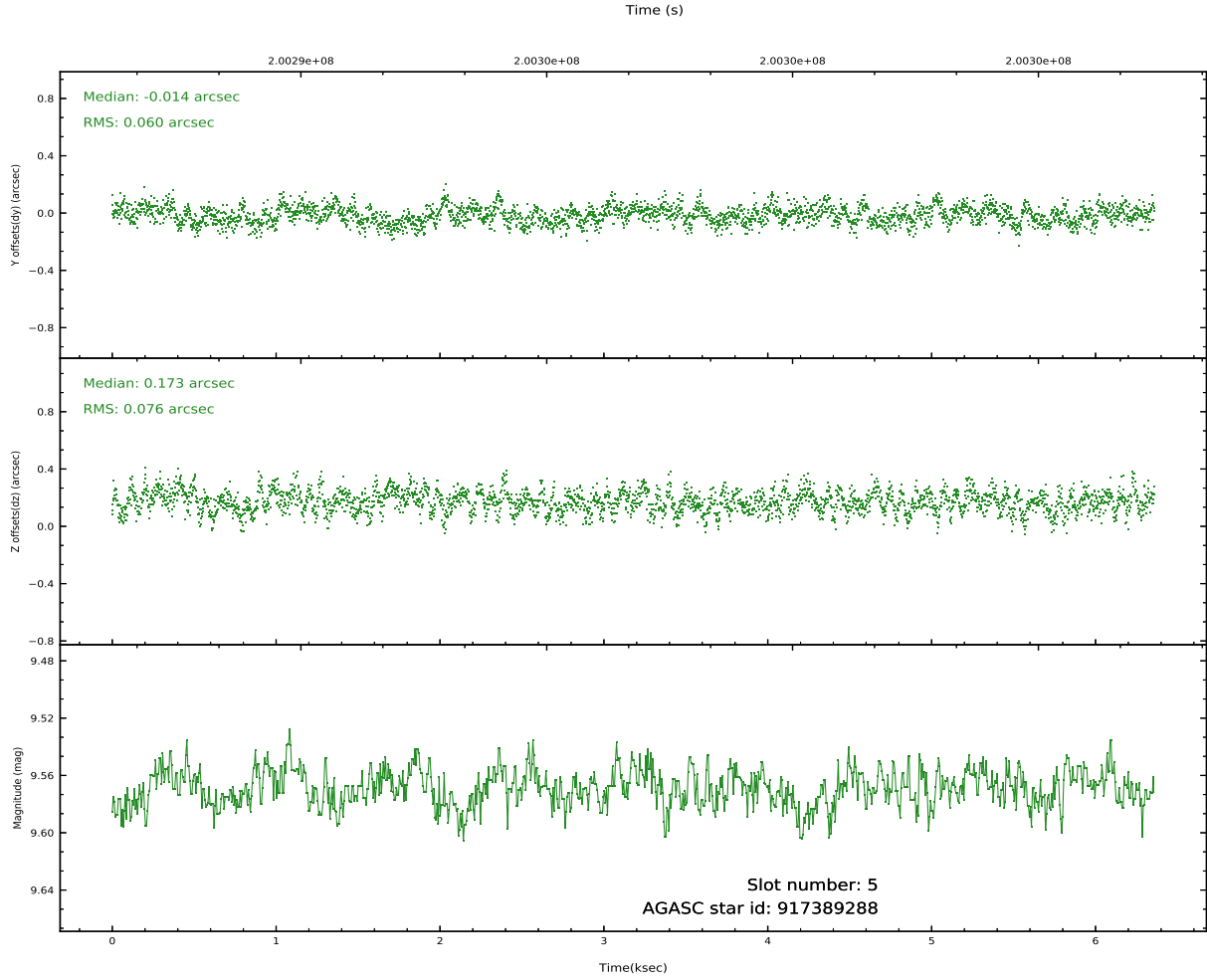
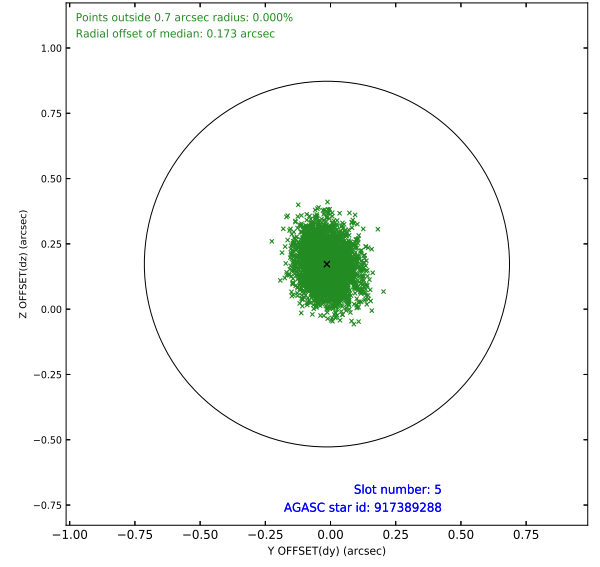
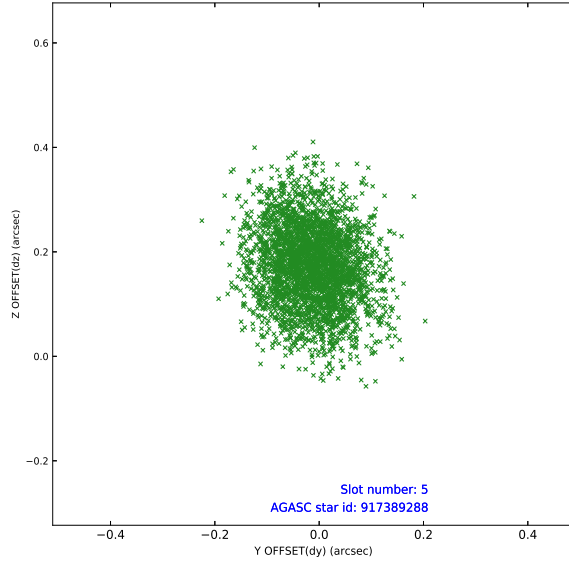
2.4.1 Slot 3



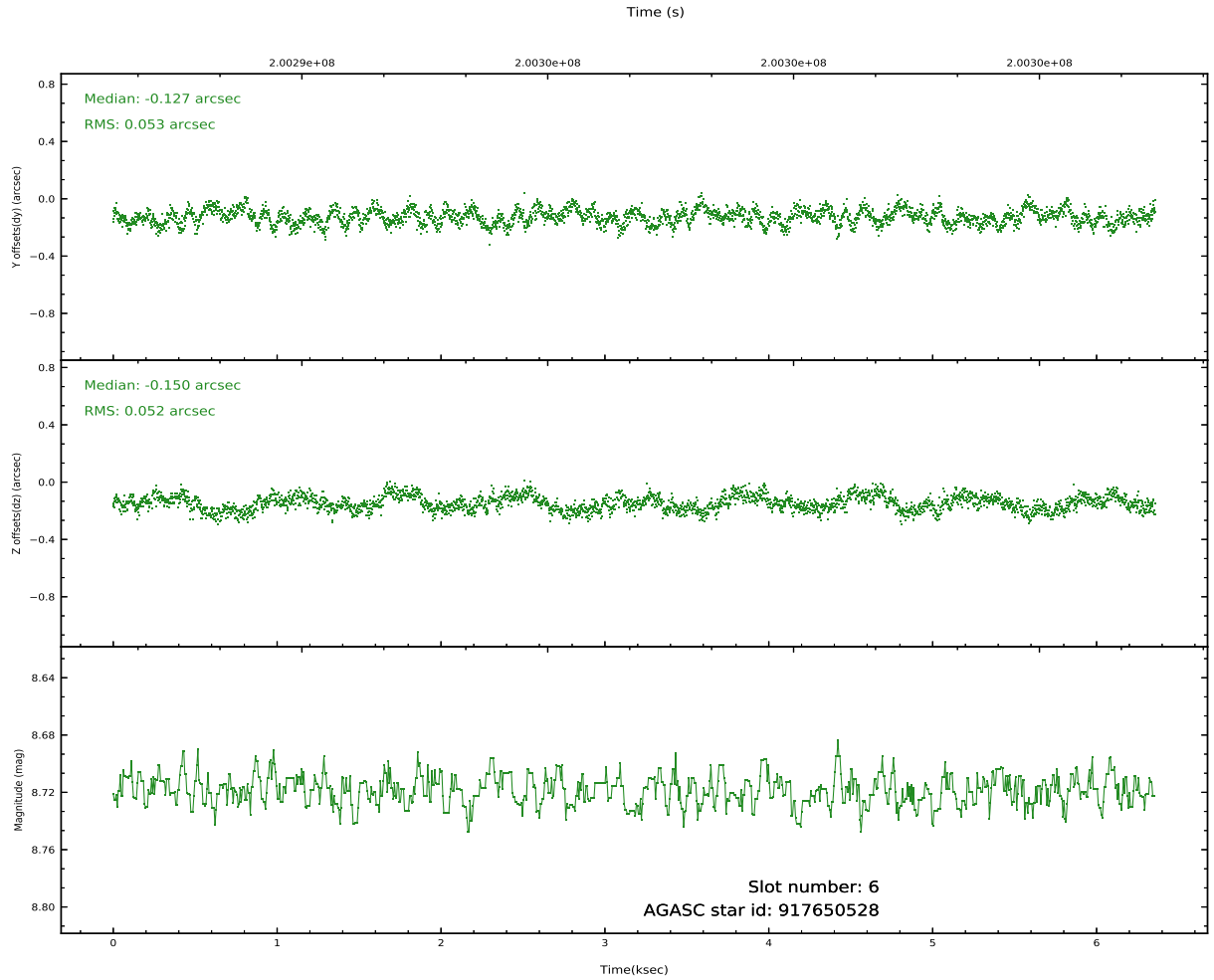
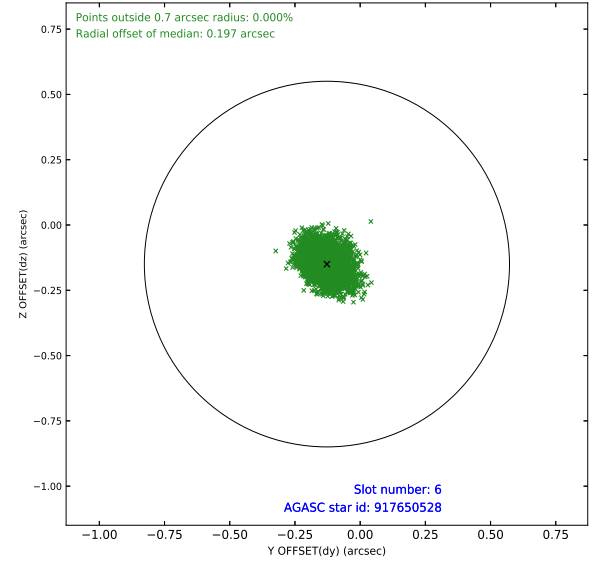
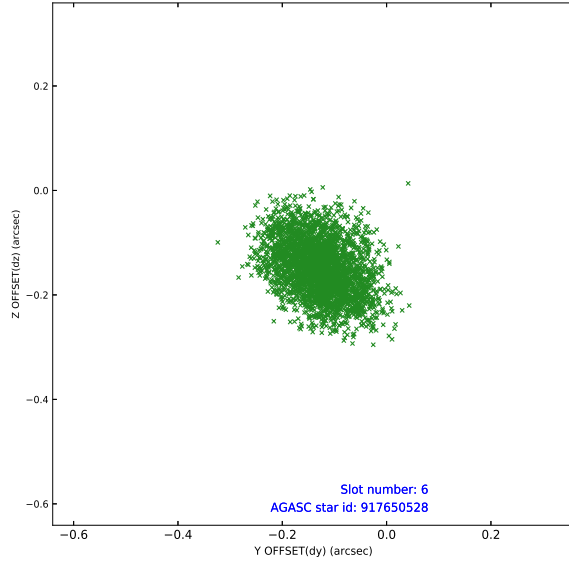
2.4.2 Slot 4



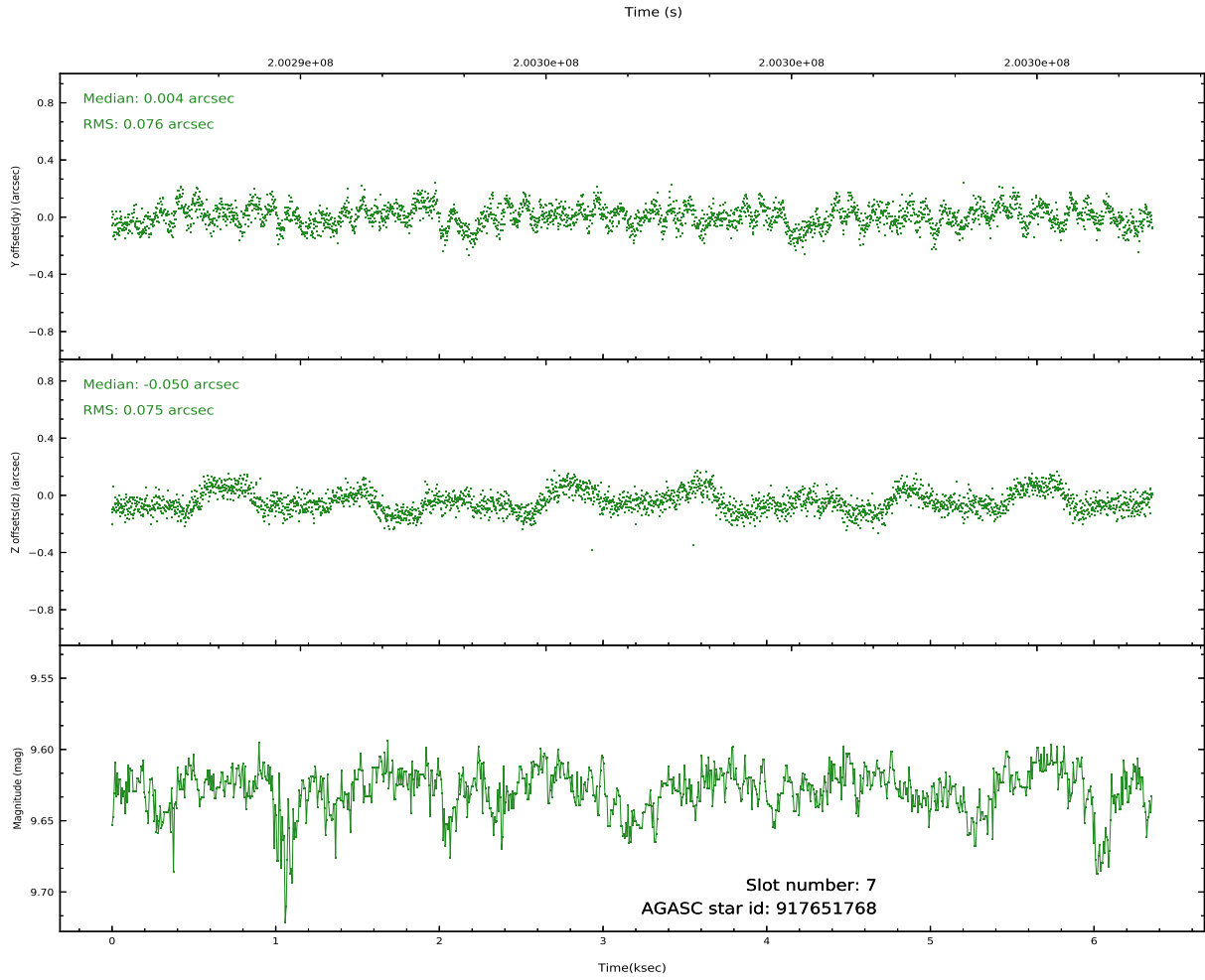
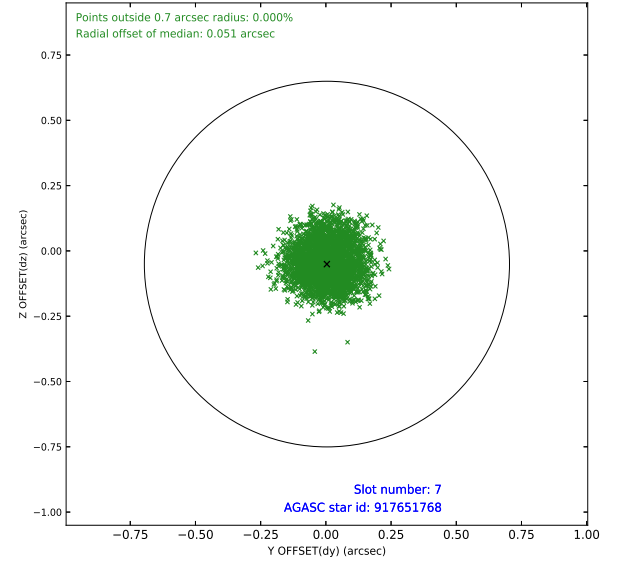
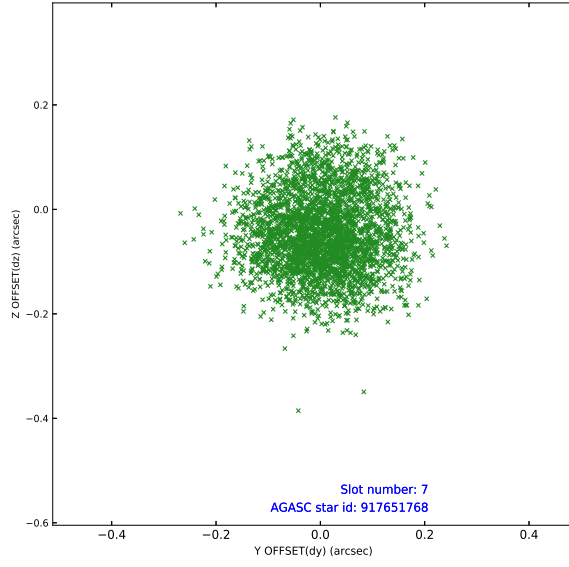
2.4.3 Slot 5



2.4.4 Slot 6

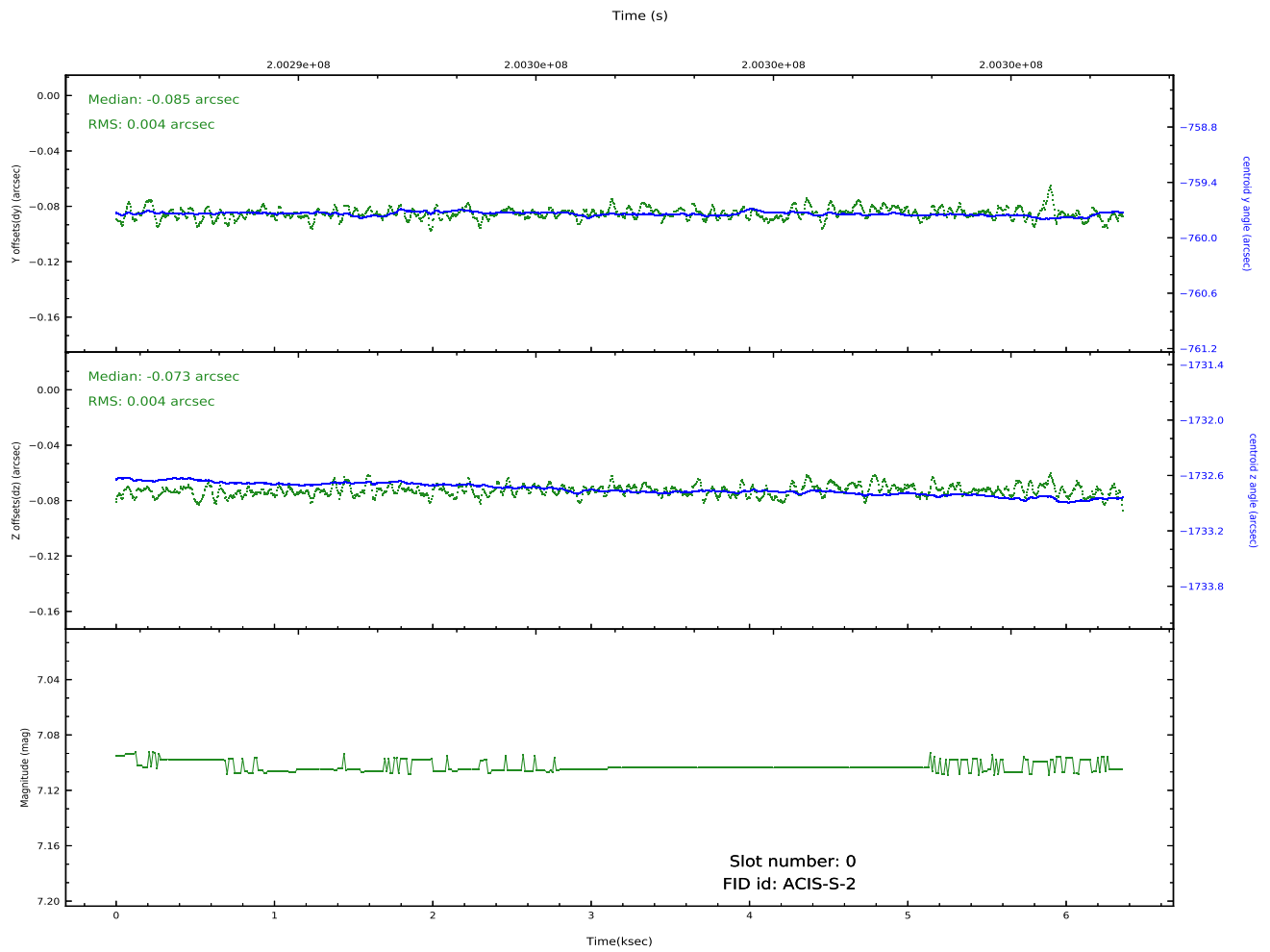
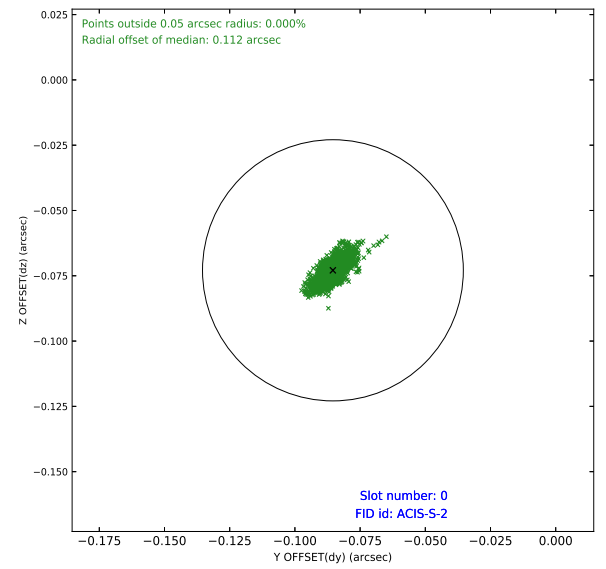
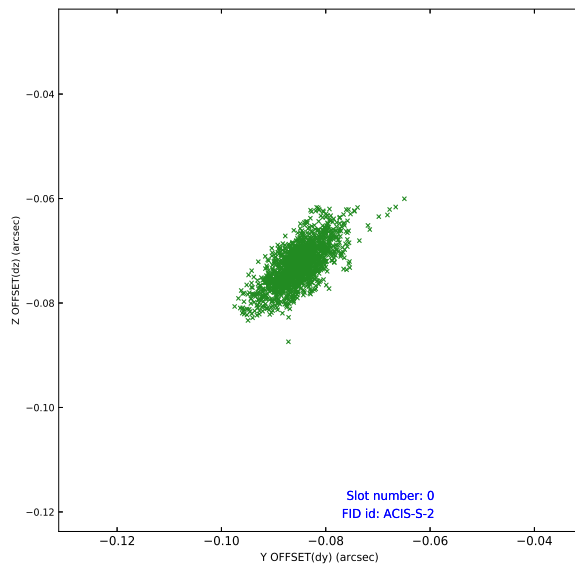


2.4.5 Slot 7

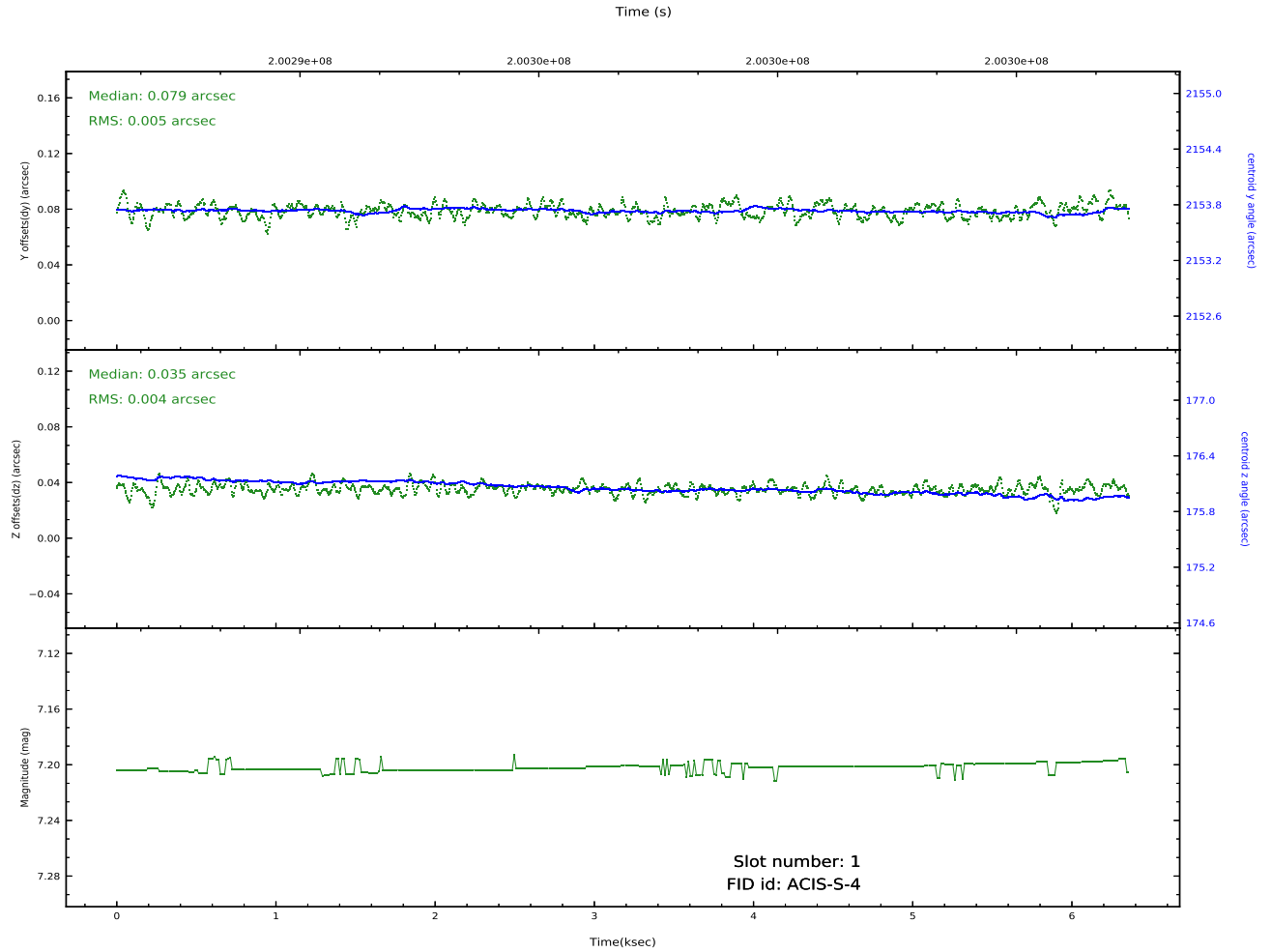
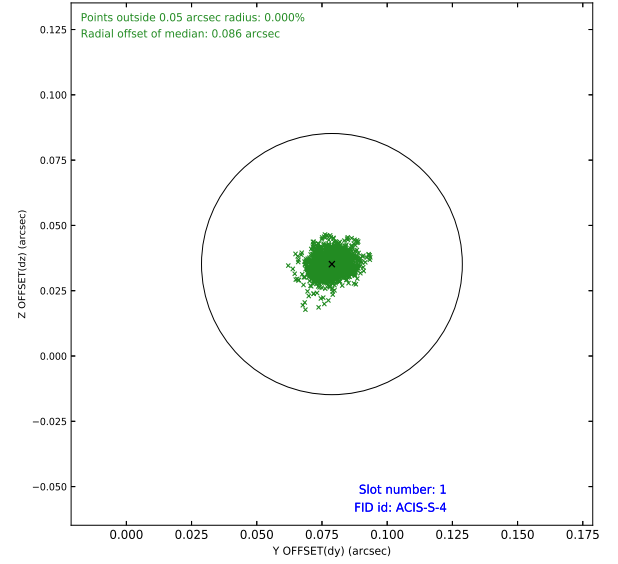
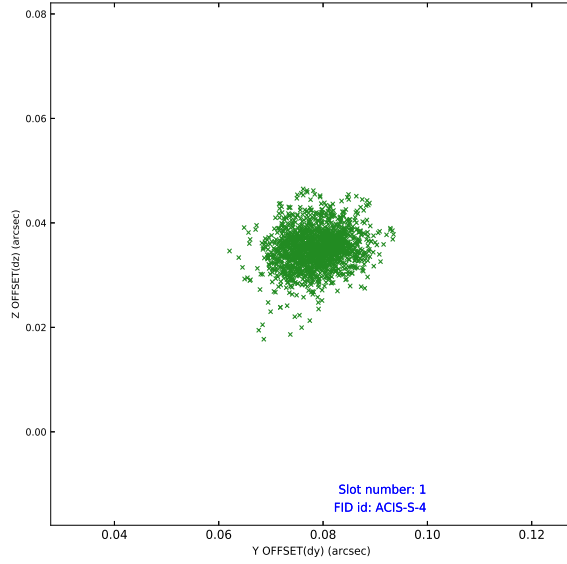


2.5 FID Slots

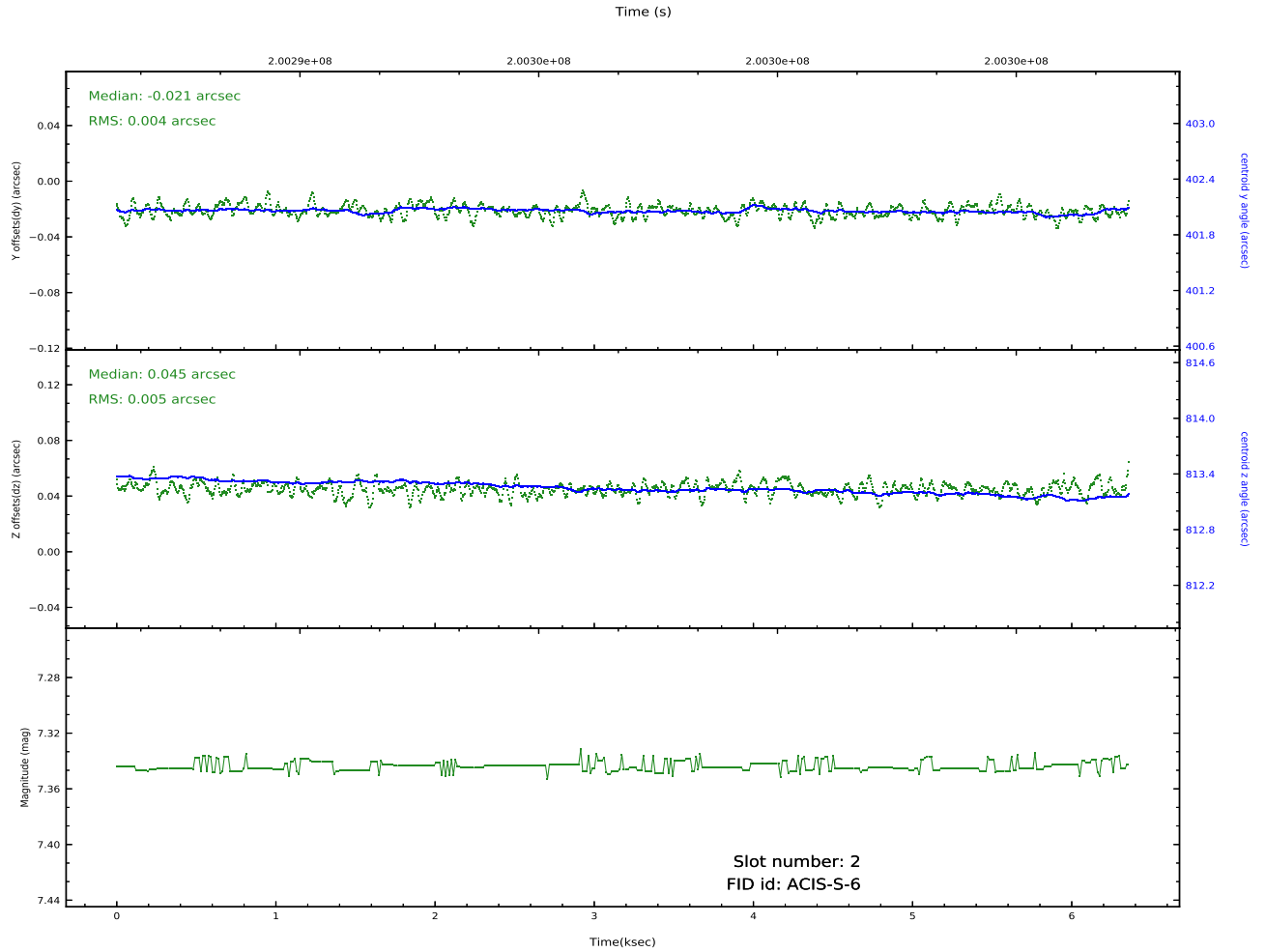
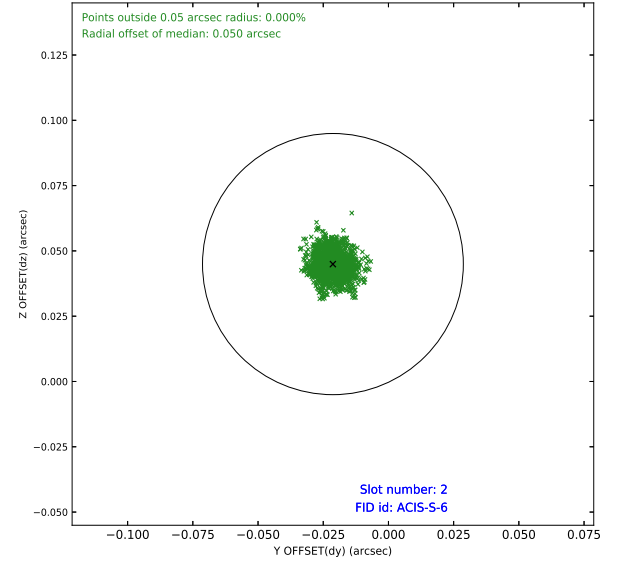
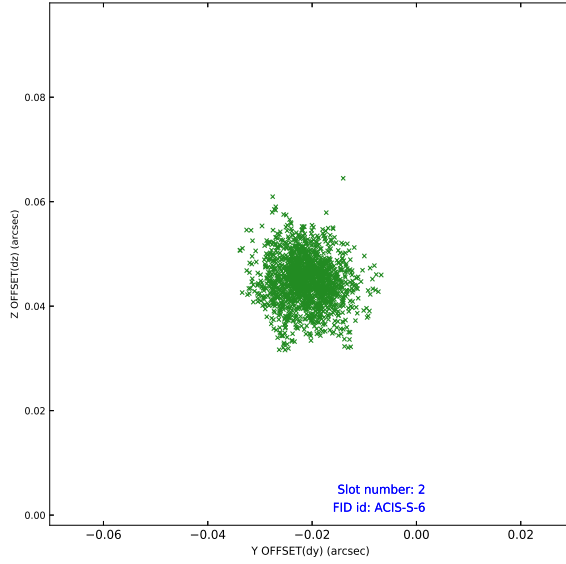
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.355

A.2 Comments