

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20358 - L2 Version 2
Chandra X-Ray Center

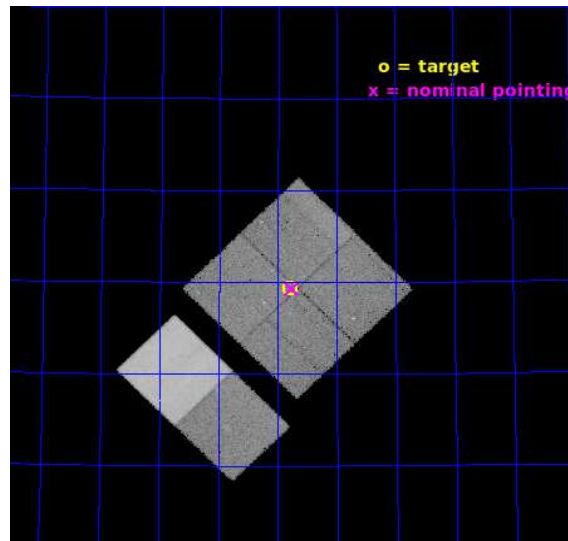
L2 Processing Date : Oct 27 2020

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

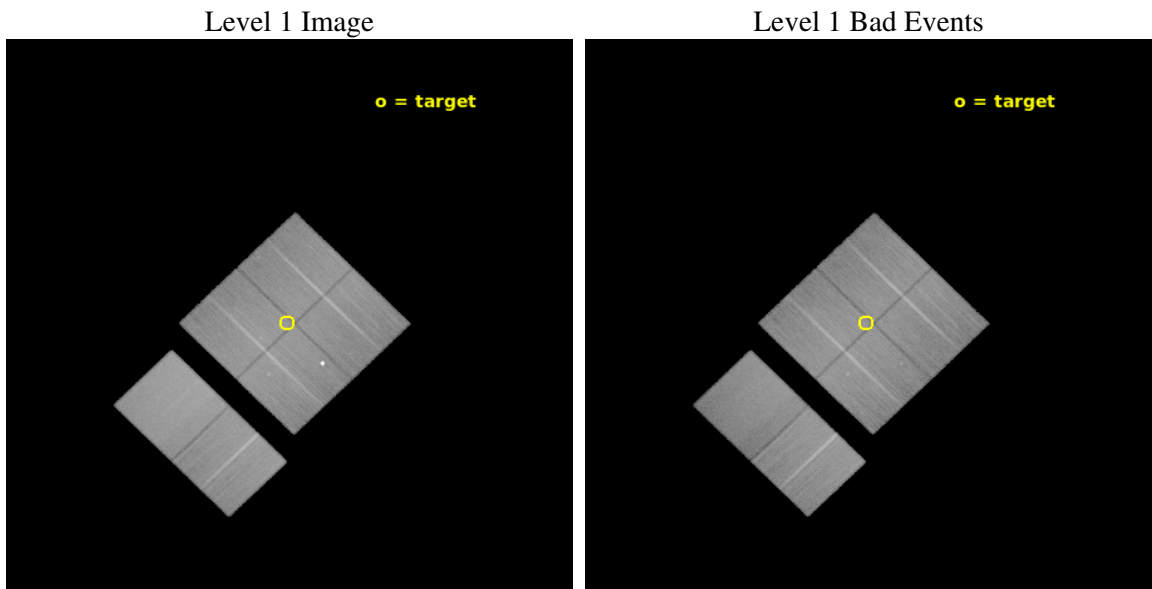
seq_num	901401	Sequence number
obs_id	20358	Observation id
title	Deep Pilot X-ray Observations of the JWST-NEP Time Domain Field	Pr
observer	Walter Maksym	Principal investigator
object	JWST-DTDF-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.699567	Observer's specified target RA [deg]
dec_targ	65.82265	Observer's specified target Dec [deg]
ra_nom	260.69064645518	Nominal RA [deg]
dec_nom	65.821580099944	Nominal Dec [deg]
roll_nom	225.20903367396	Nominal Roll [deg]
revision	2	Processing version of data
ontime	47323.731903315	Sum of GTIs [s]
livetime	46724.490315025	Livetime [s]
ontime0	47323.608783245	Sum of GTIs [s]
ontime1	47326.890853405	Sum of GTIs [s]
ontime2	47317.208992124	Sum of GTIs [s]
ontime3	47323.731903315	Sum of GTIs [s]
ontime6	47330.295983672	Sum of GTIs [s]
ontime7	47330.254943728	Sum of GTIs [s]
l2events	361611	Number of level 2 events



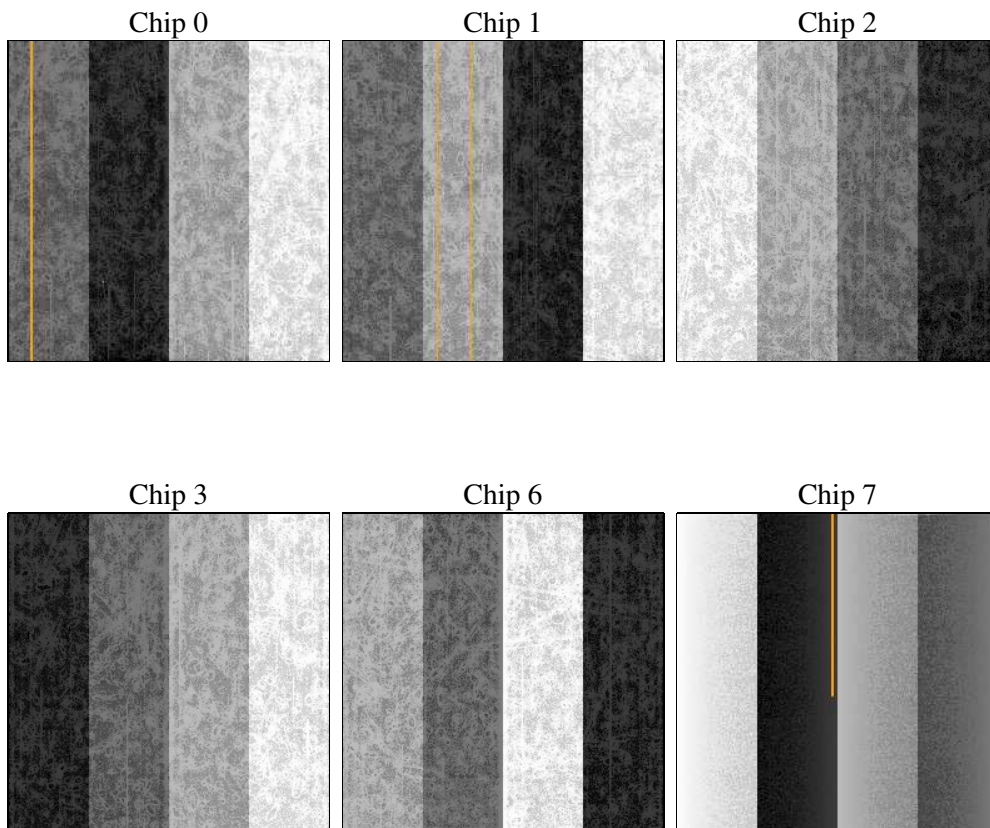
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47380.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	47323.731903315	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	47323.608783245	Sum of GTIs [s]
date	2020-10-27T05:27:29	Date and time of file creation	ontime1	47326.890853405	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	47317.208992124	Sum of GTIs [s]
			ontime3	47323.731903315	Sum of GTIs [s]
			ontime6	47330.295983672	Sum of GTIs [s]
			ontime7	47330.254943728	Sum of GTIs [s]
			l1events	2209190	Number of level 1 events

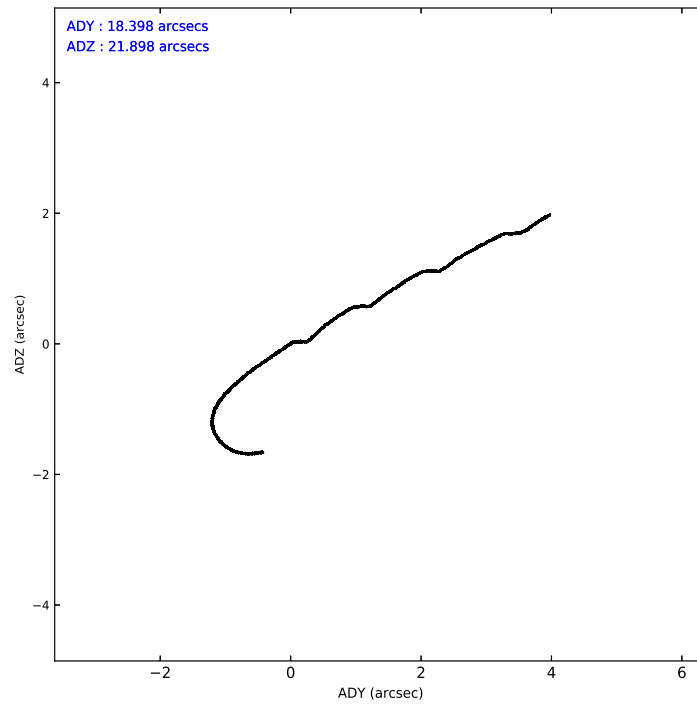
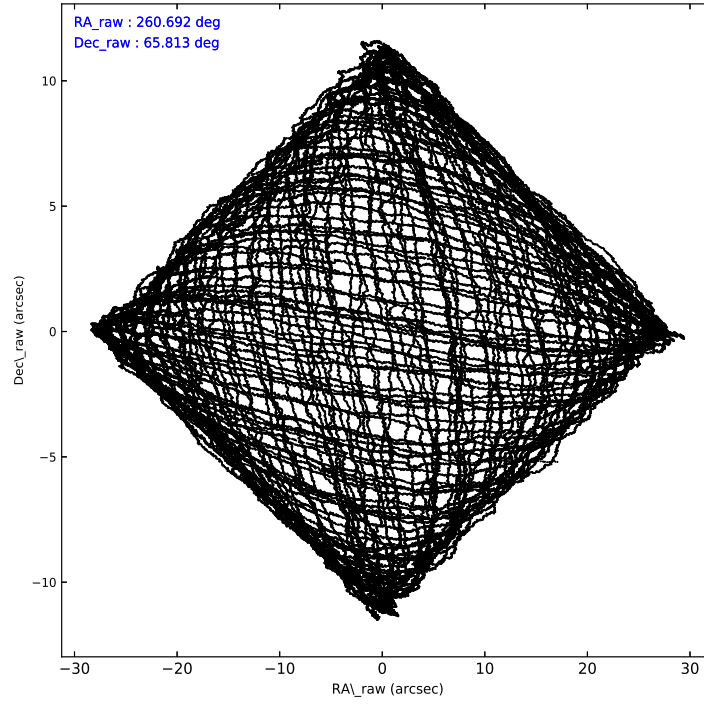
2.1.4 Events

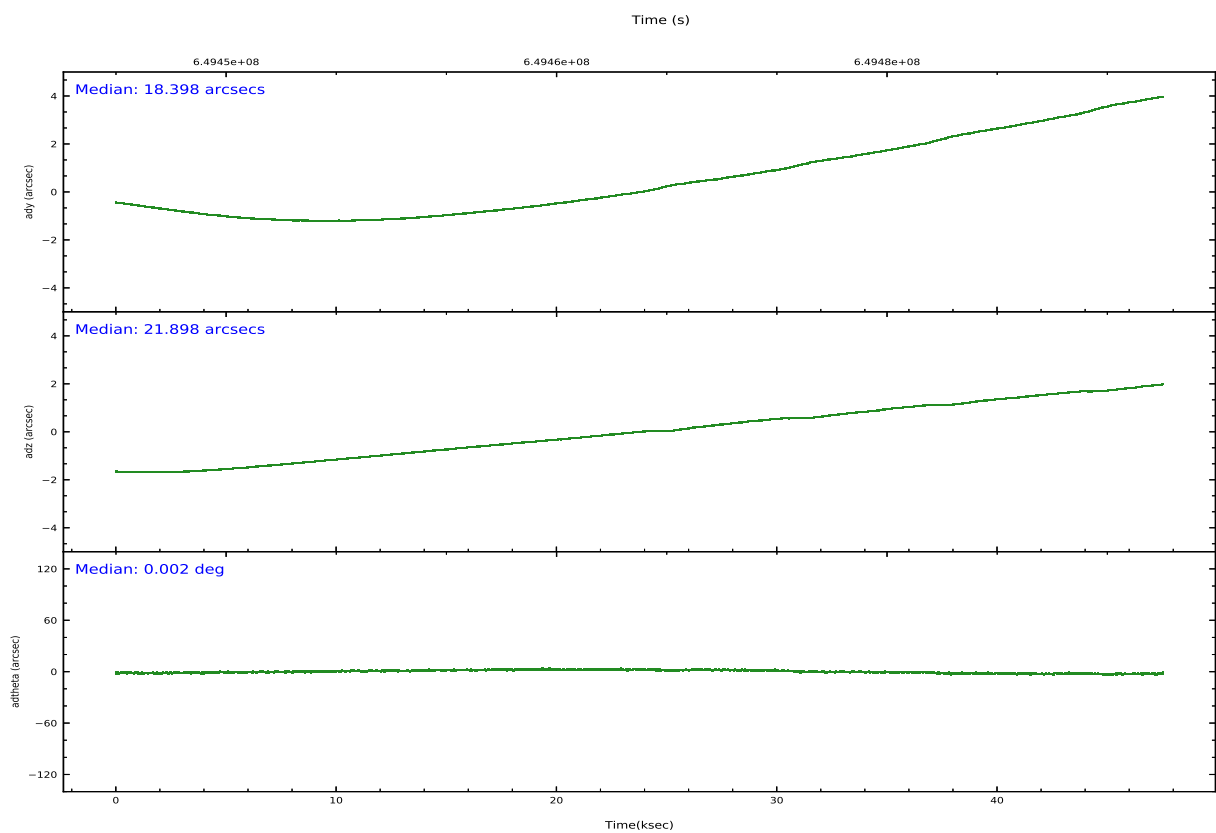
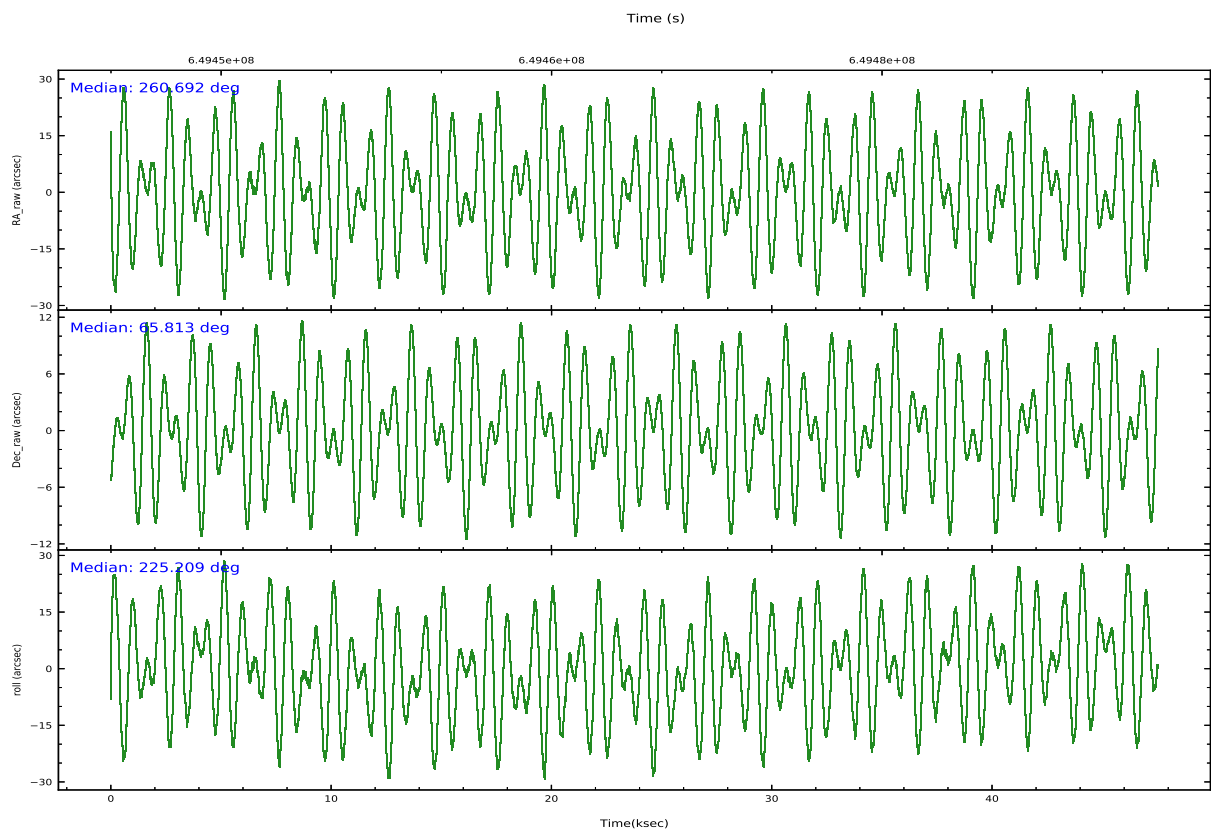
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	322782	328864	378507	345106	375347	458584	grade 0 events	13265	14339	13488	14178	13322	16995
rejected events	283730	285880	319723	306845	334519	258449		4%	4%	3%	4%	3%	3%
rejected %	87%	86%	84%	88%	89%	56%	grade 1 events	151	192	287	205	188	694
								0%	0%	0%	0%	0%	0%
							grade 2 events	9914	11252	30119	8111	9940	42323
								3%	3%	7%	2%	2%	9%
							grade 3 events	3971	3899	3698	3904	3879	15766
								1%	1%	0%	1%	1%	3%
							grade 4 events	3664	3869	3845	3977	3808	15546
								1%	1%	1%	1%	1%	3%
							grade 5 events	14721	15369	14009	16727	16809	45412
								4%	4%	3%	4%	4%	9%
							grade 6 events	8245	9630	7645	8094	9882	109517
								2%	2%	2%	2%	2%	23%
							grade 7 events	268851	270314	305416	289910	317519	212331
								83%	82%	80%	84%	84%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	260.709268	260.69064645518	CCD I2 on	Y	Y
[deg] Pointing Dec	65.839987	65.821580099944	CCD I3 on	Y	Y
[deg] Pointing Roll	224.991149	225.20903367396	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	649445152.184000	649444040.20702	CCD S5 on	N	N
Observation start date	2018-07-31T17:24:43	2018-07-31T17:07:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	649492532.184000	649493402.15995	On-chip summing requested	N	N
Observation end date	2018-08-01T06:34:23	2018-08-01T06:50:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



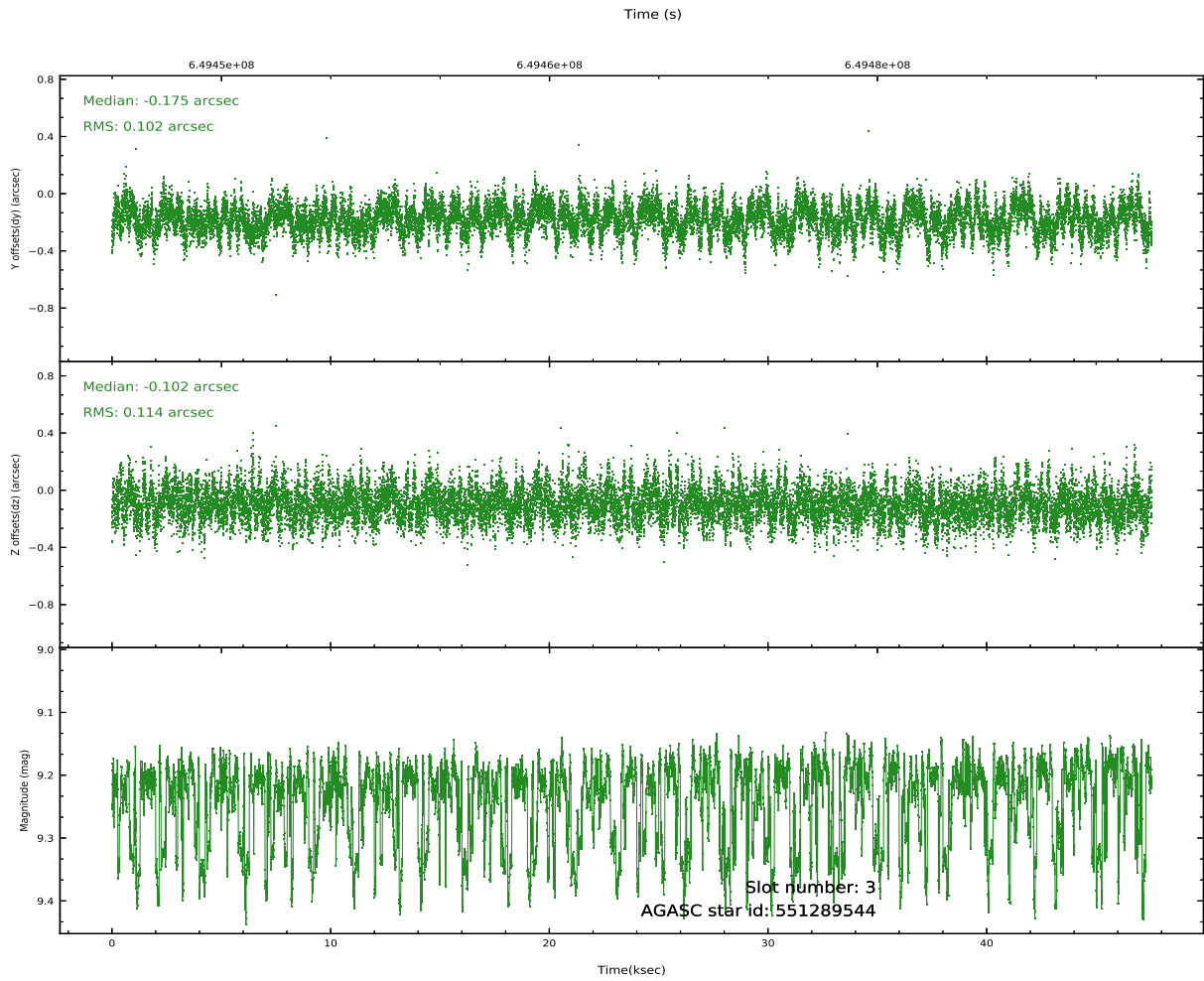
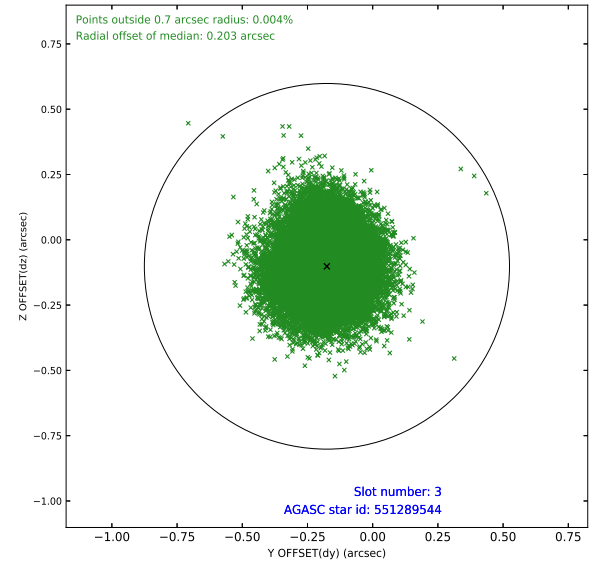
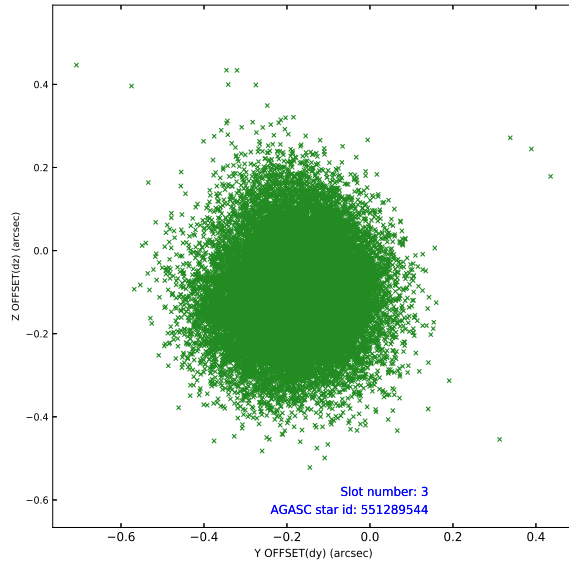


Slot Statistics

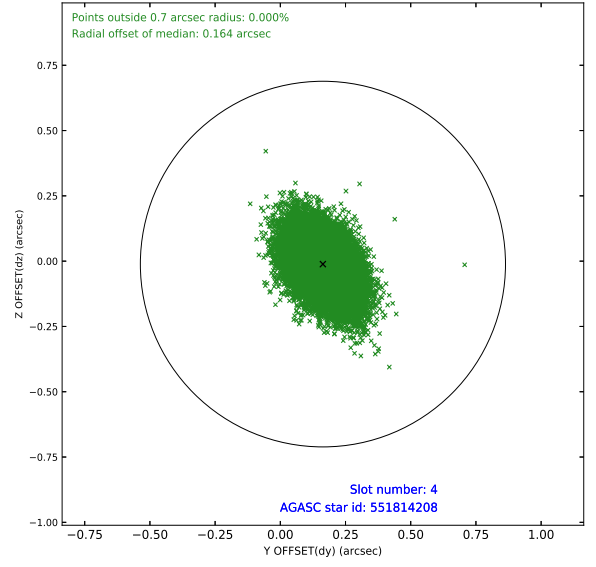
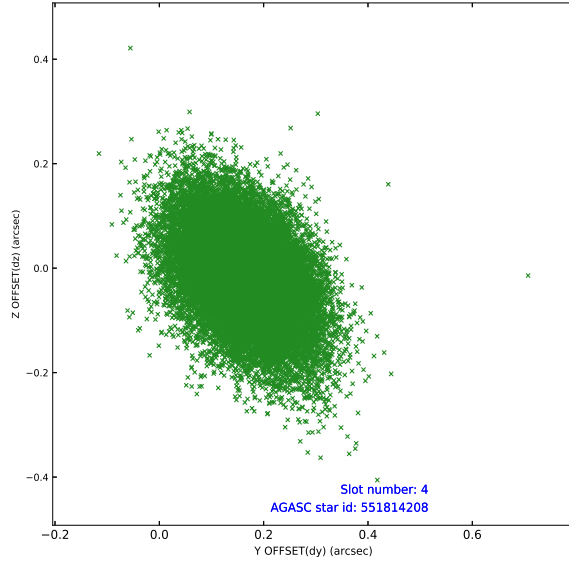
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.20	11596	1.000	0.198	-0.133	0.041	0.078	0.000000	0.000000	920.53	-845
1	FID		ACIS-I-5	7.18	11596	1.000	-0.292	0.182	0.018	0.026	0.000000	0.000000	-1827.92	1052
2	FID		ACIS-I-6	7.20	11595	1.000	0.001	0.027	0.055	0.086	0.000000	0.000000	386.09	1696
3	GUIDE	used	551289544	9.22	23174	1.000	-0.175	-0.102	0.164	0.261	261.089724	65.487644	493.65	1297
4	GUIDE	used	551814208	7.91	23186	1.000	0.163	-0.011	0.114	0.191	260.175311	65.639944	1067.55	-53
5	GUIDE	used	551815096	6.76	23188	1.000	-0.005	0.163	0.114	0.189	260.236273	66.562724	-1362.71	-2321
6	GUIDE	used	551951232	7.91	23182	1.000	-0.006	-0.005	0.115	0.196	262.419848	65.894071	-1940.78	1615
7	GUIDE	used	551952296	8.71	23170	1.000	0.027	-0.042	0.112	0.196	261.999680	65.847021	-1375.96	1312

2.4 Star Slots

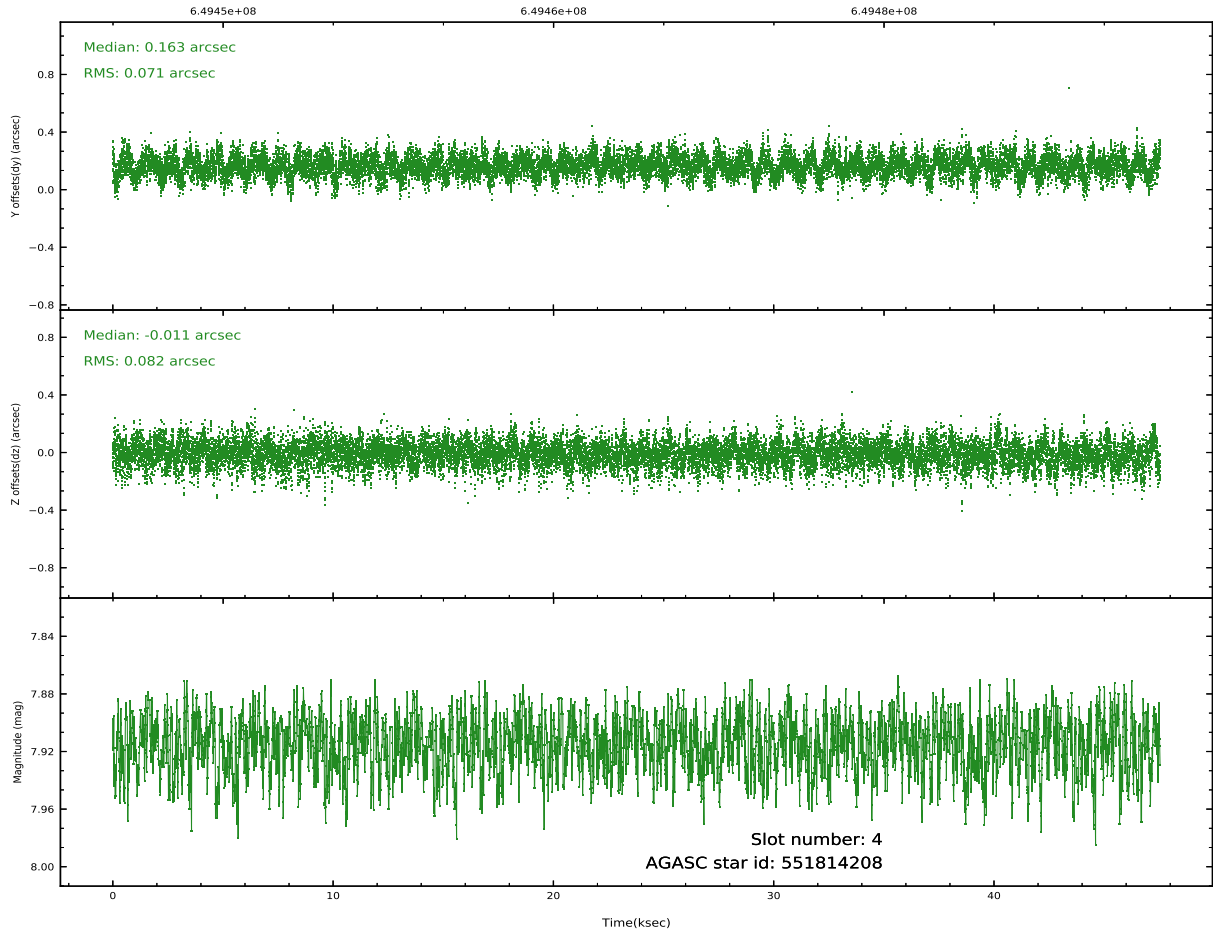
2.4.1 Slot 3



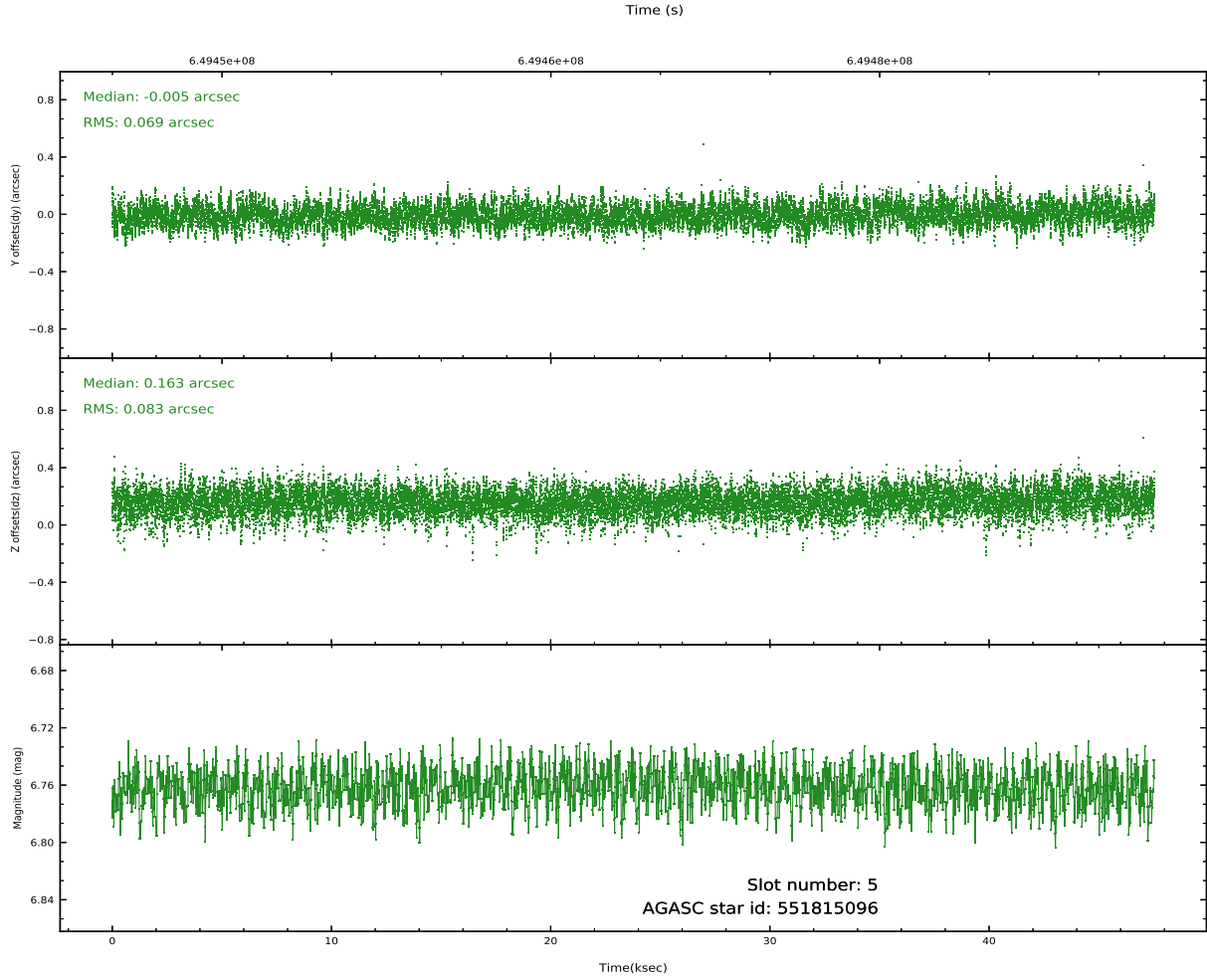
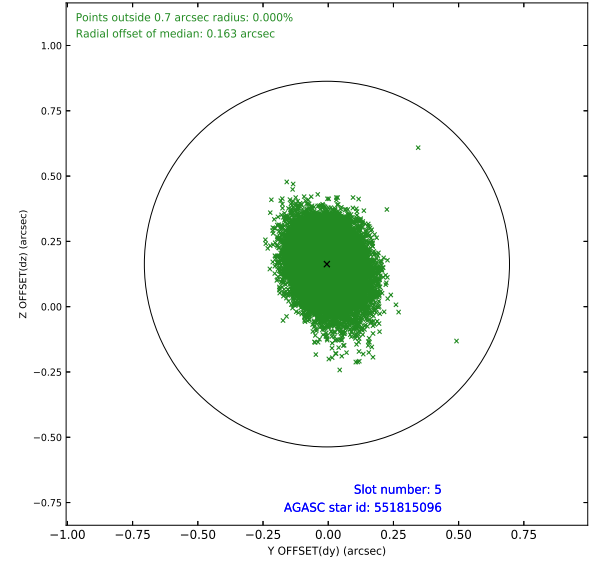
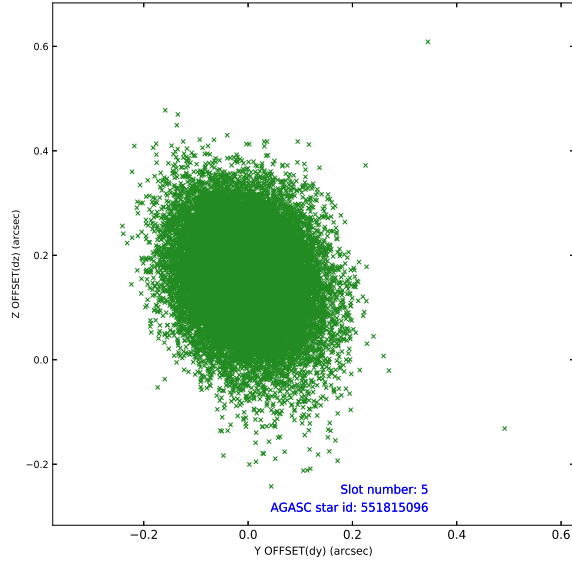
2.4.2 Slot 4



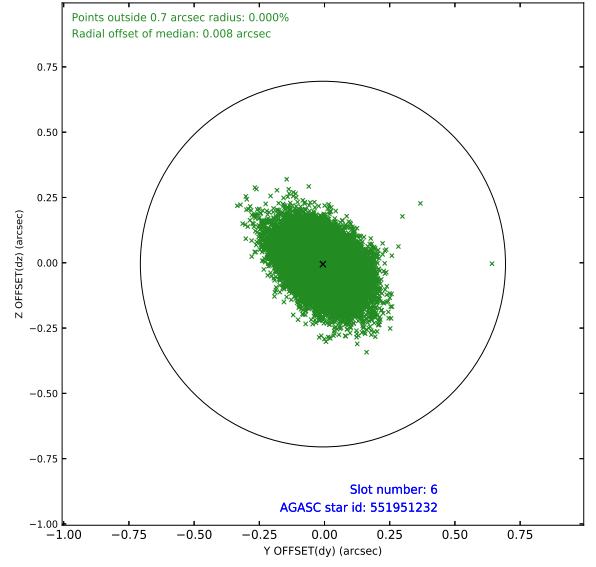
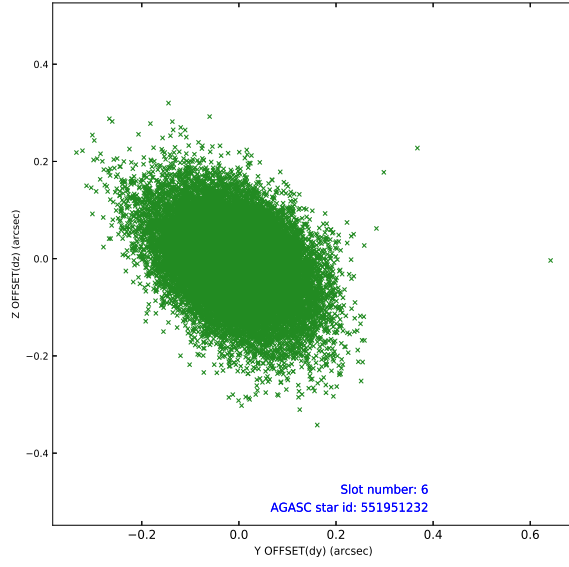
Time (s)



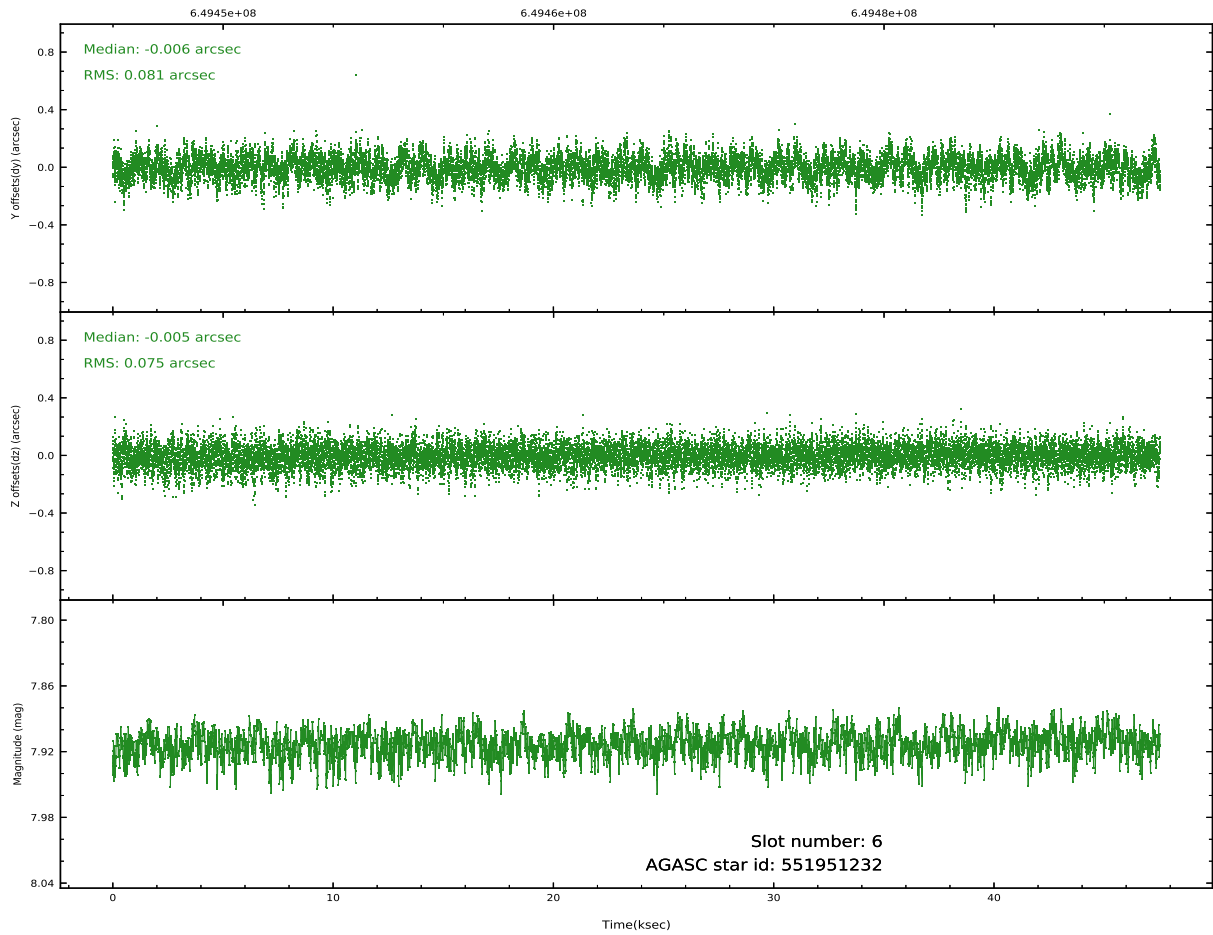
2.4.3 Slot 5



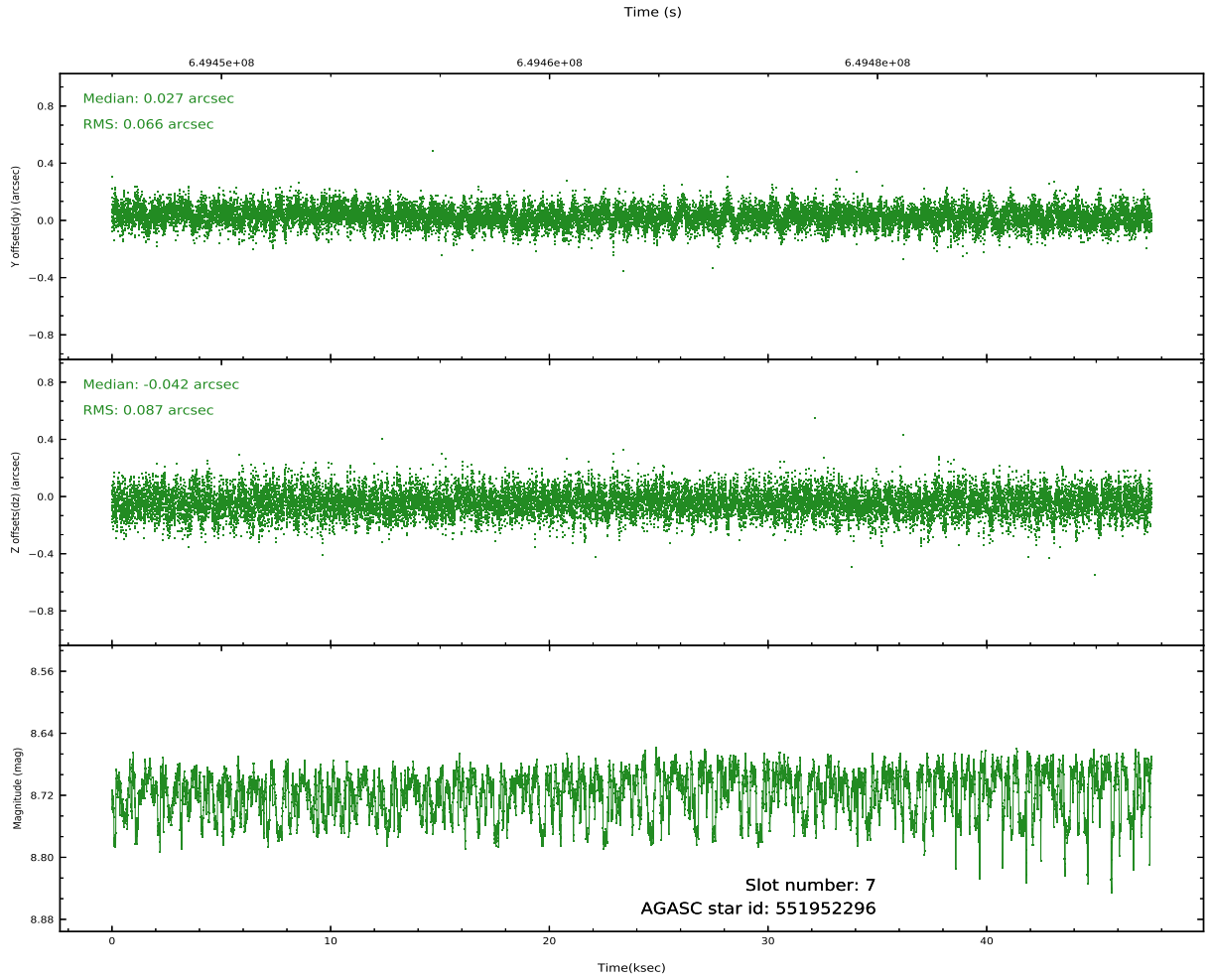
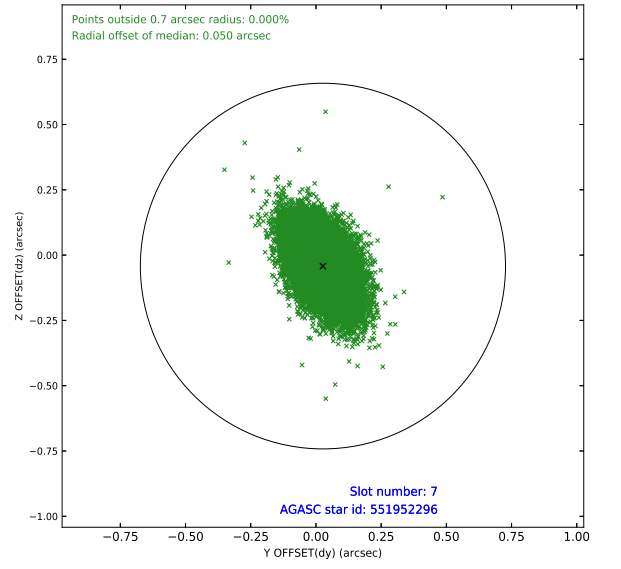
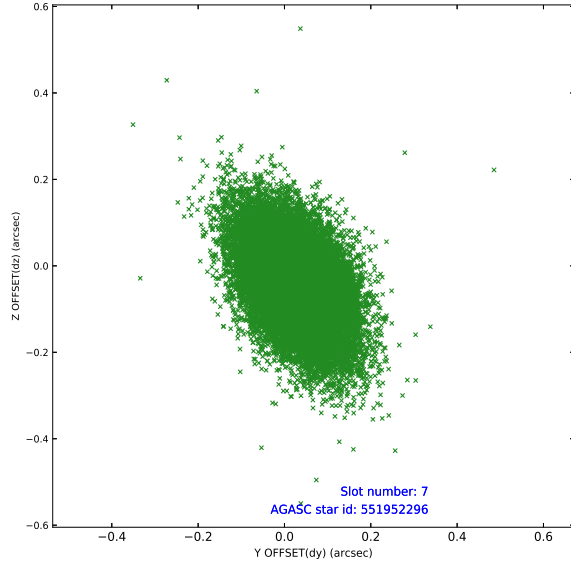
2.4.4 Slot 6



Time (s)

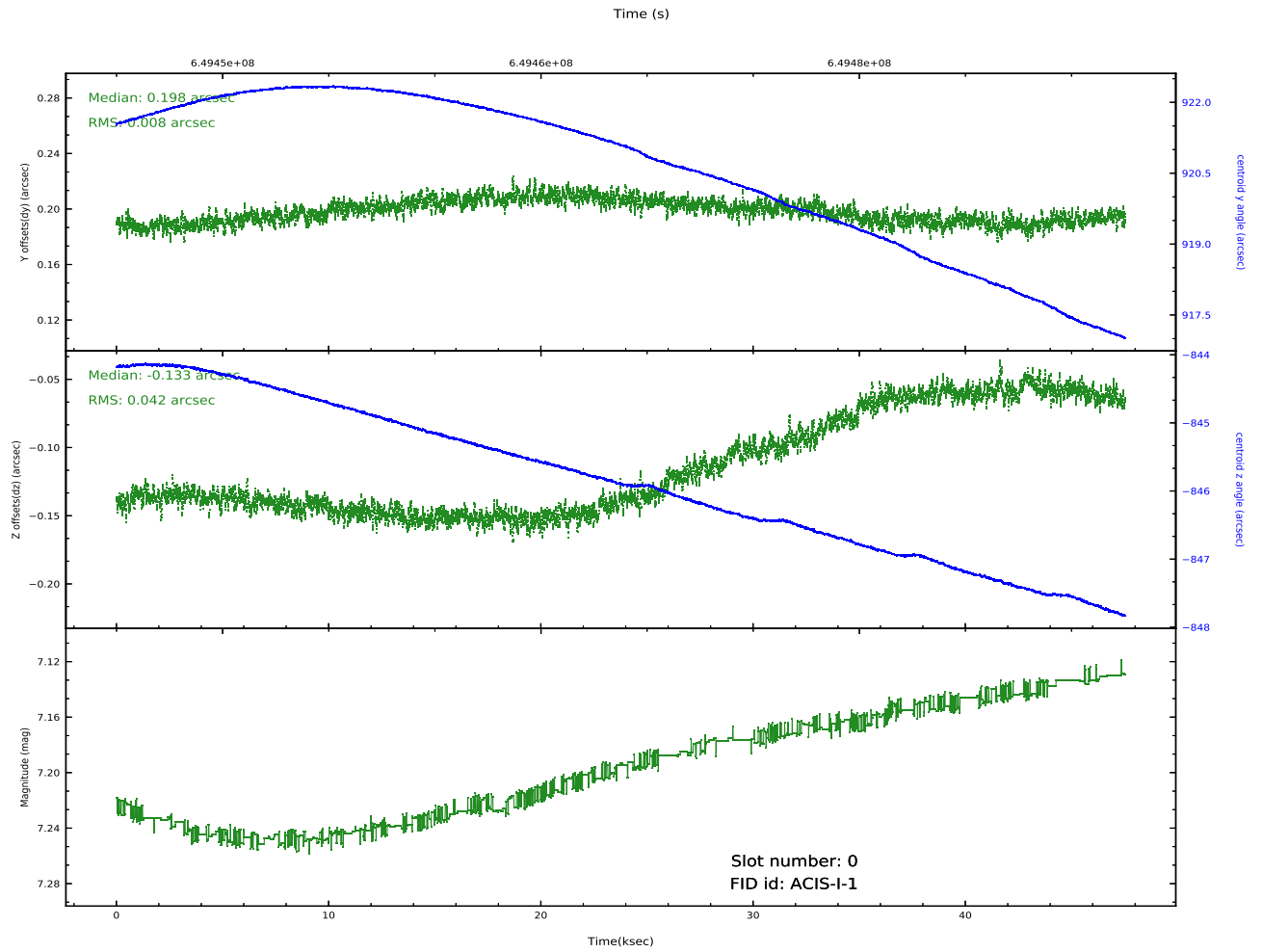
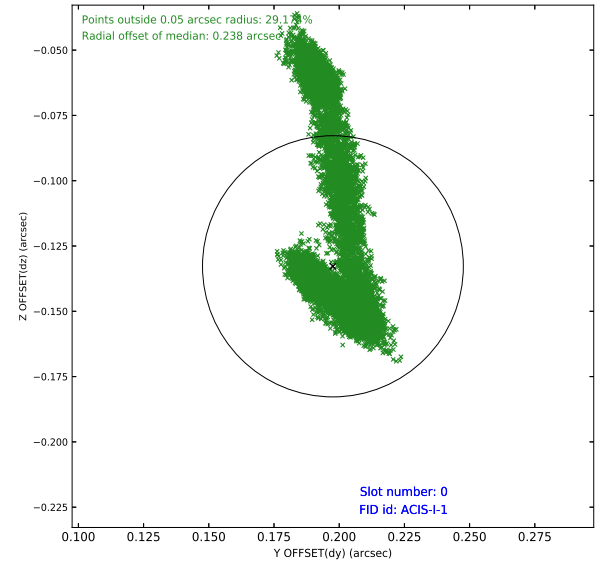
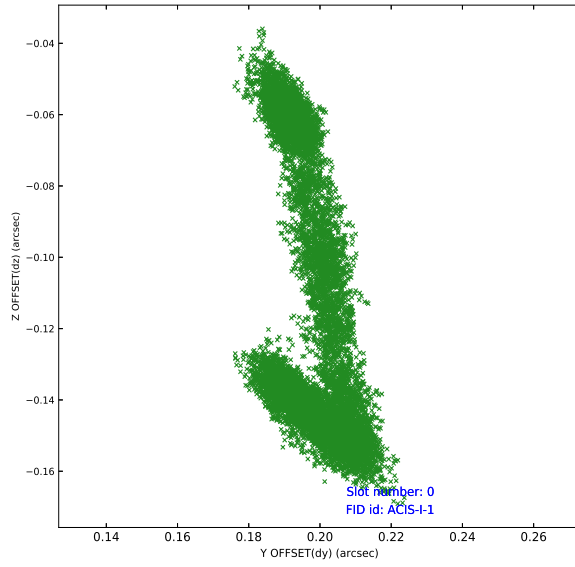


2.4.5 Slot 7

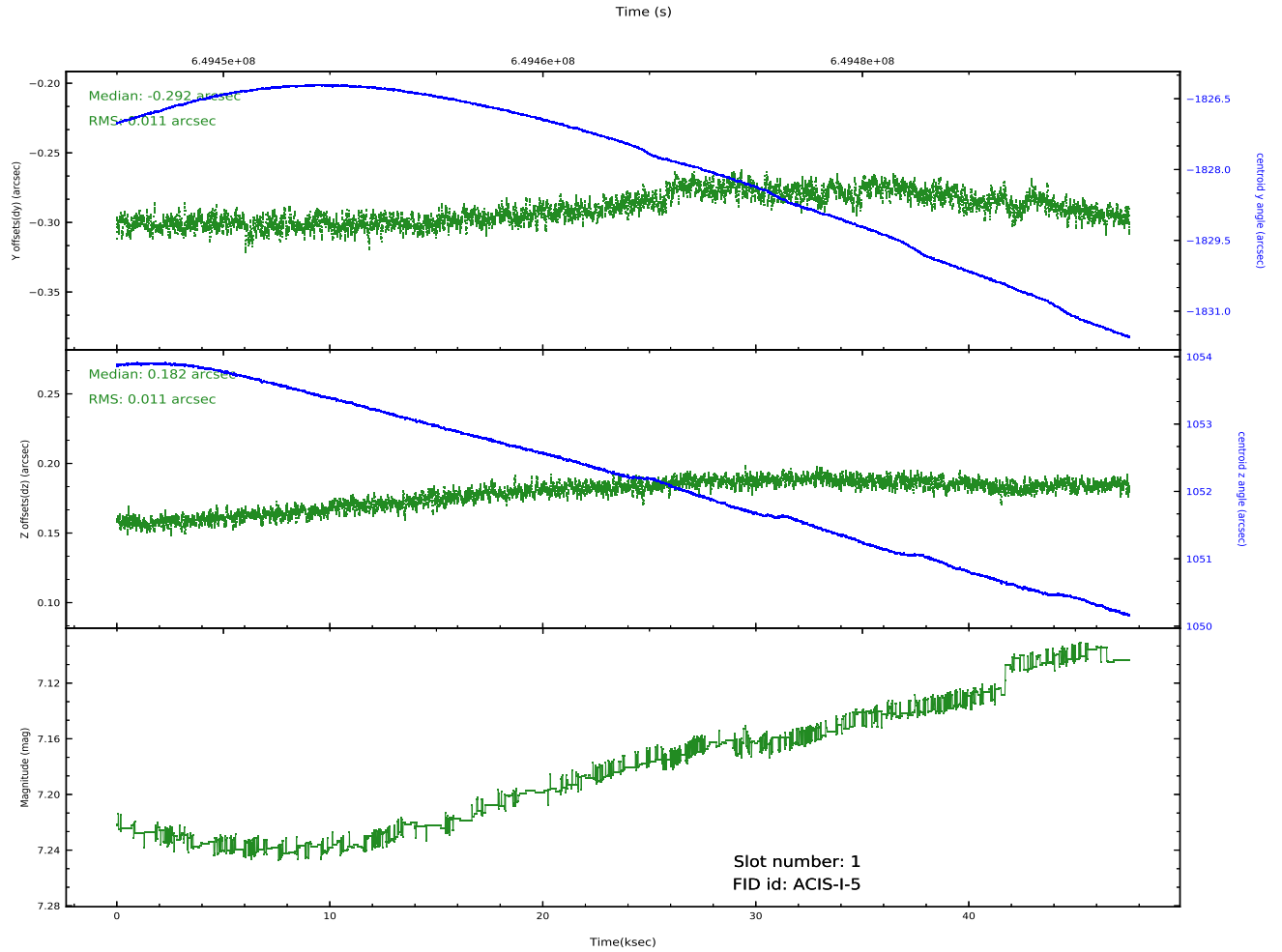
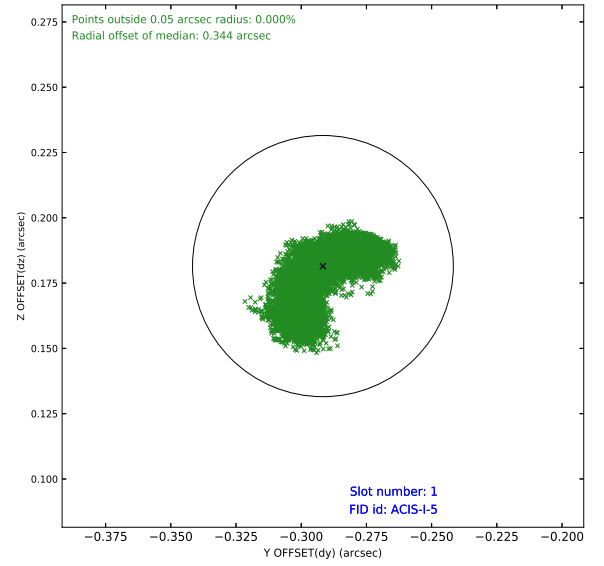
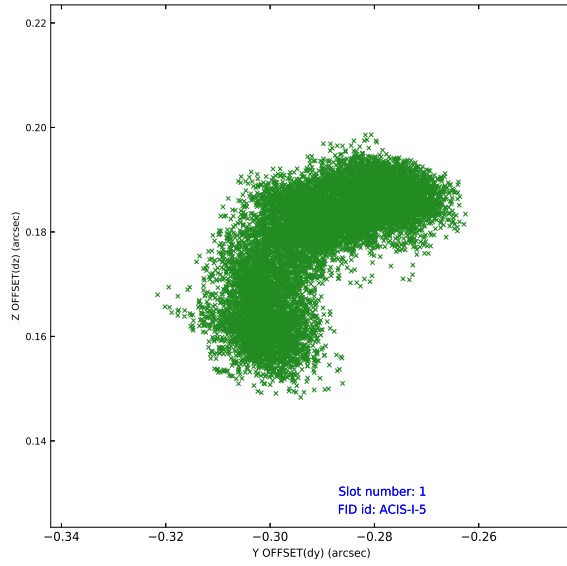


2.5 FID Slots

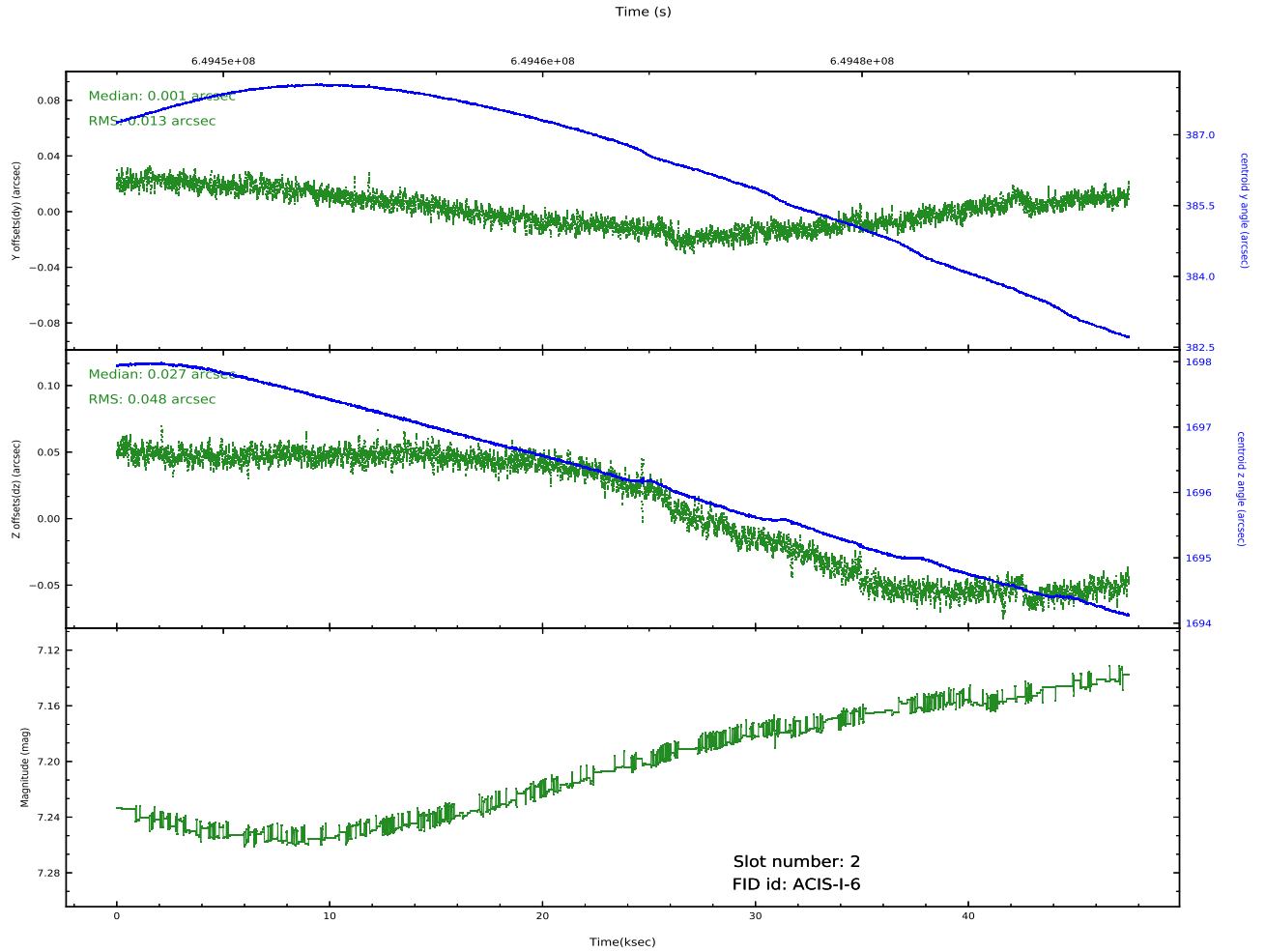
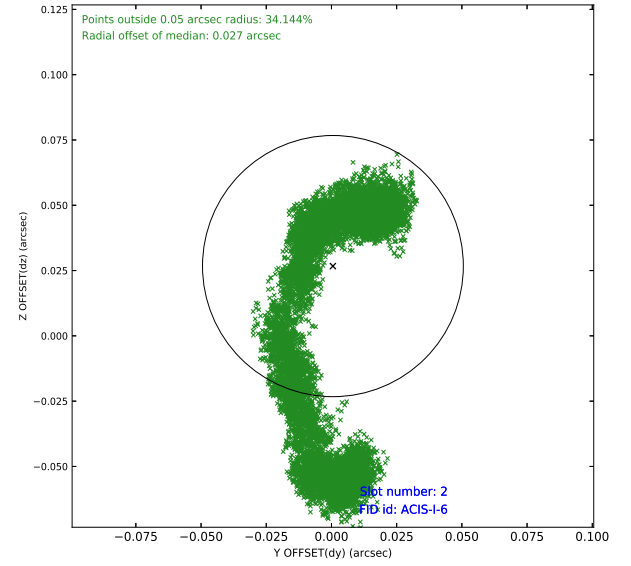
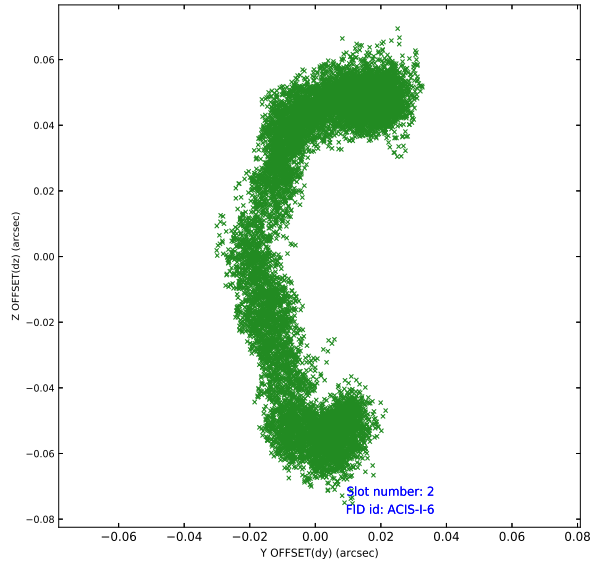
2.5.1 Slot 0



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	47.323731906056

A.2 Comments