

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21046 - L2 Version 2
Chandra X-Ray Center

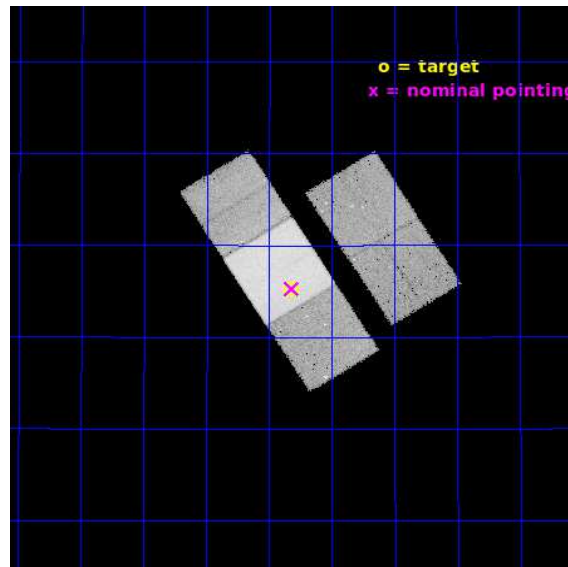
L2 Processing Date : Oct 26 2020

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

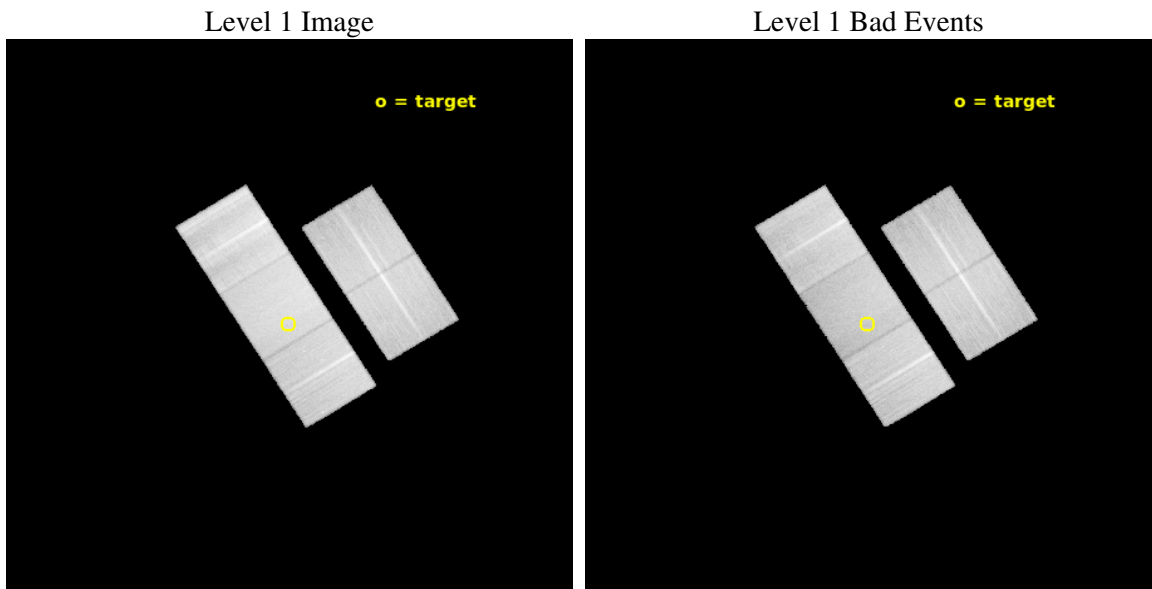
seq_num	703409	Sequence number
obs_id	21046	Observation id
title	Continued Quasar and AGN Variability on 10-100 kyr Timescales	Prop
observer	Walter Maksym	Principal investigator
object	UGC 7342	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.580417	Observer's specified target RA [deg]
dec_targ	29.253611	Observer's specified target Dec [deg]
ra_nom	184.57973813705	Nominal RA [deg]
dec_nom	29.254698899825	Nominal Dec [deg]
roll_nom	237.99229823548	Nominal Roll [deg]
revision	2	Processing version of data
ontime	38054.678705335	Sum of GTIs [s]
livetime	37557.466312603	Livetime [s]
ontime2	38054.514545321	Sum of GTIs [s]
ontime3	38051.455615044	Sum of GTIs [s]
ontime6	38054.637665391	Sum of GTIs [s]
ontime7	38054.678705335	Sum of GTIs [s]
ontime8	38054.555585384	Sum of GTIs [s]
l2events	266503	Number of level 2 events



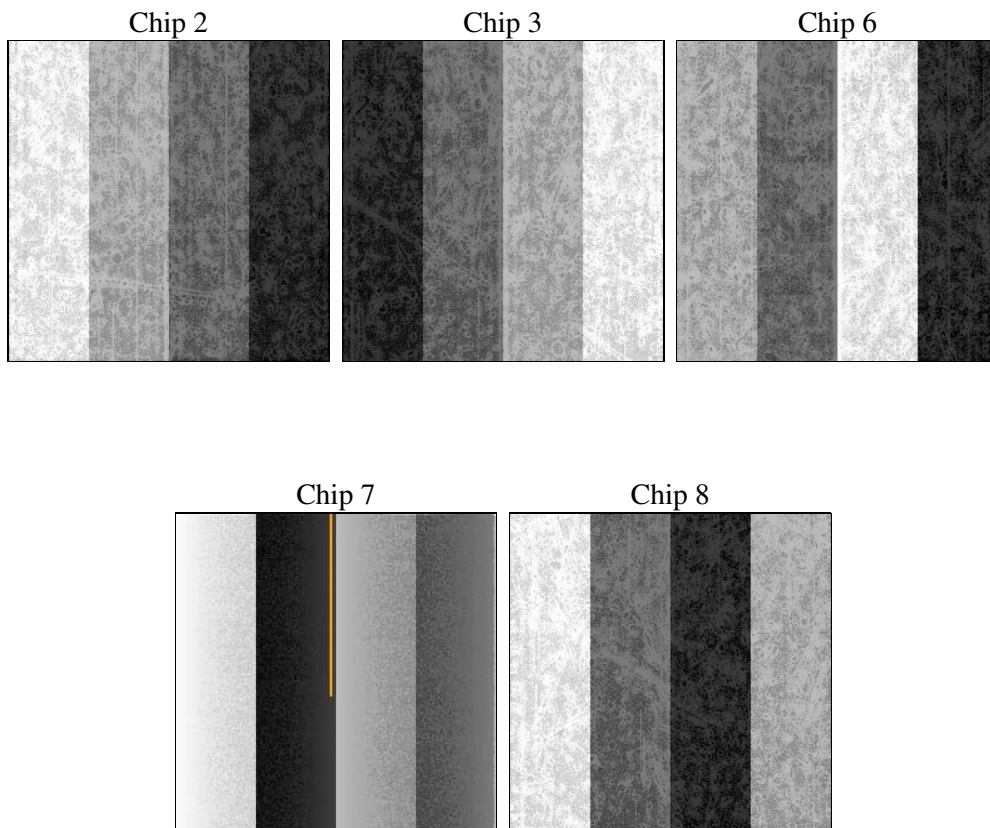
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	38054.678705335	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	38054.514545321	Sum of GTIs [s]
date	2020-10-26T06:24:23	Date and time of file creation	ontime3	38051.455615044	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	38054.637665391	Sum of GTIs [s]
			ontime7	38054.678705335	Sum of GTIs [s]
			ontime8	38054.555585384	Sum of GTIs [s]
			l1events	1609505	Number of level 1 events

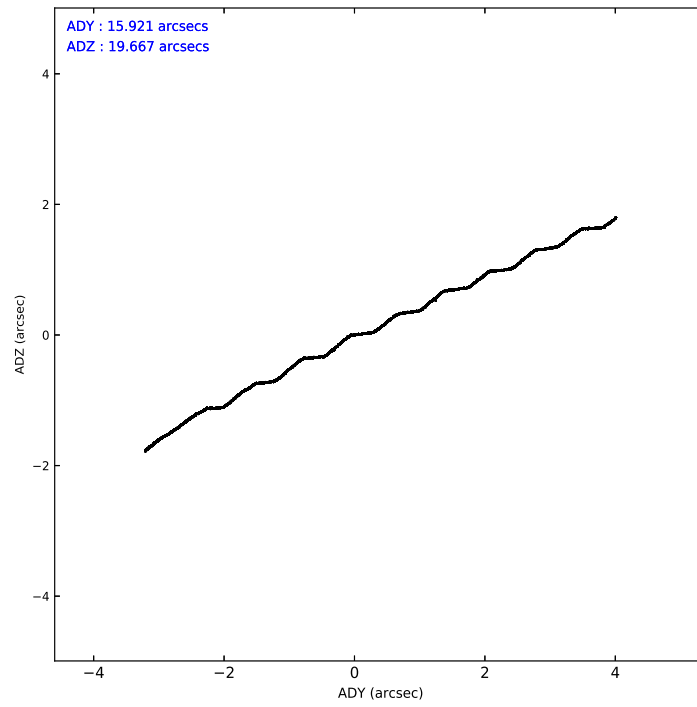
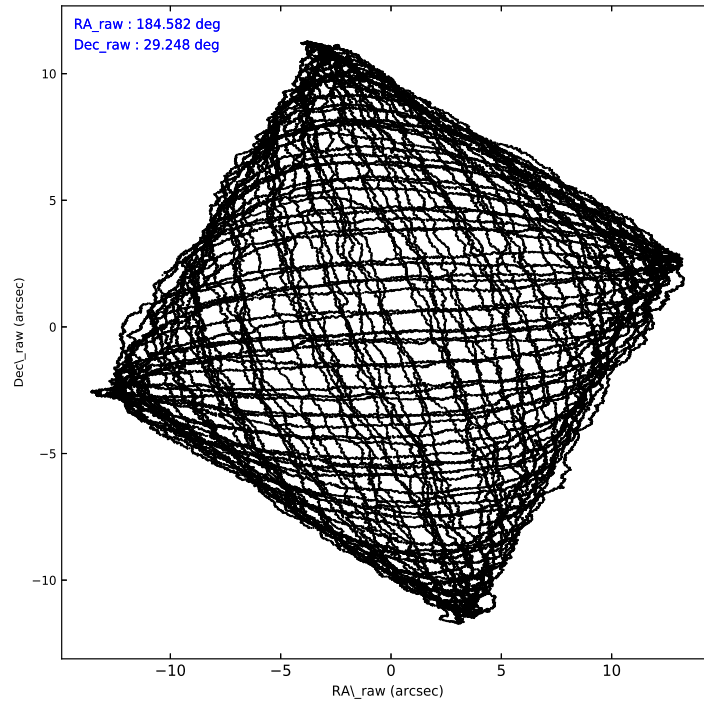
2.1.4 Events

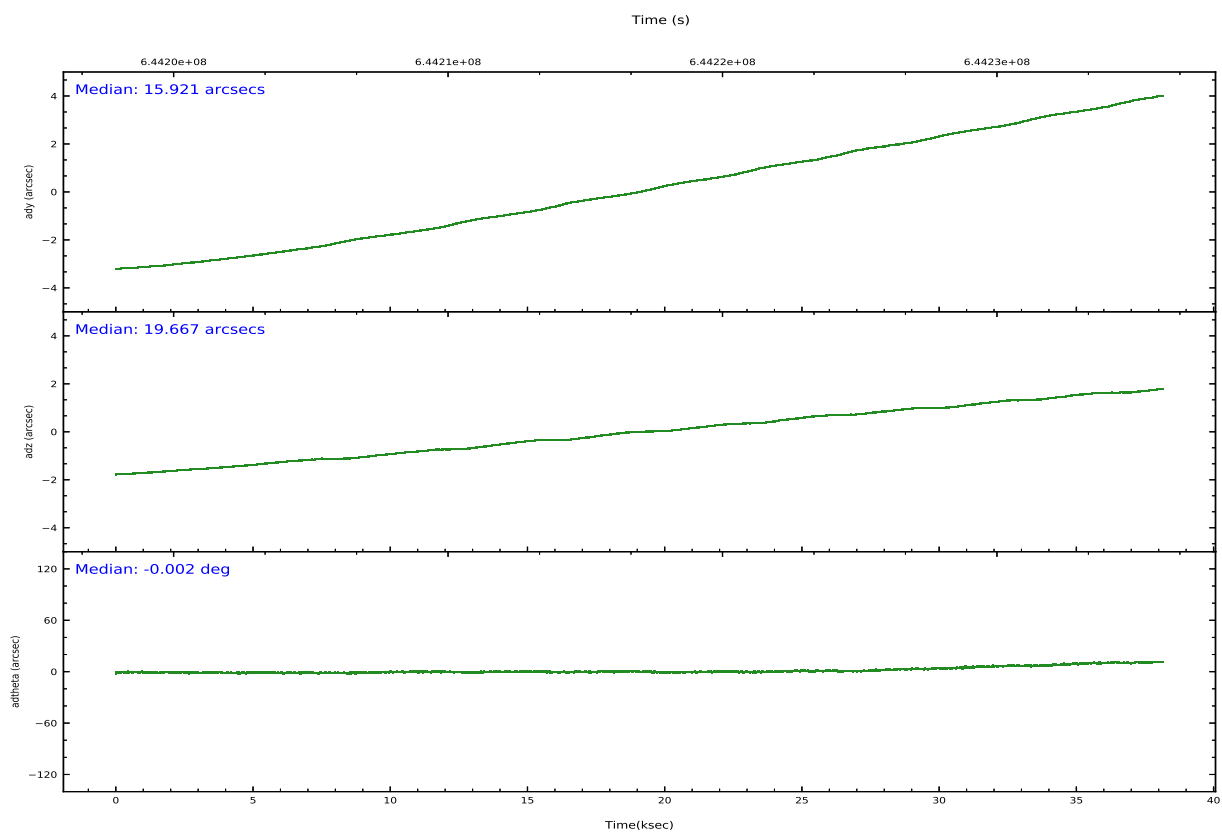
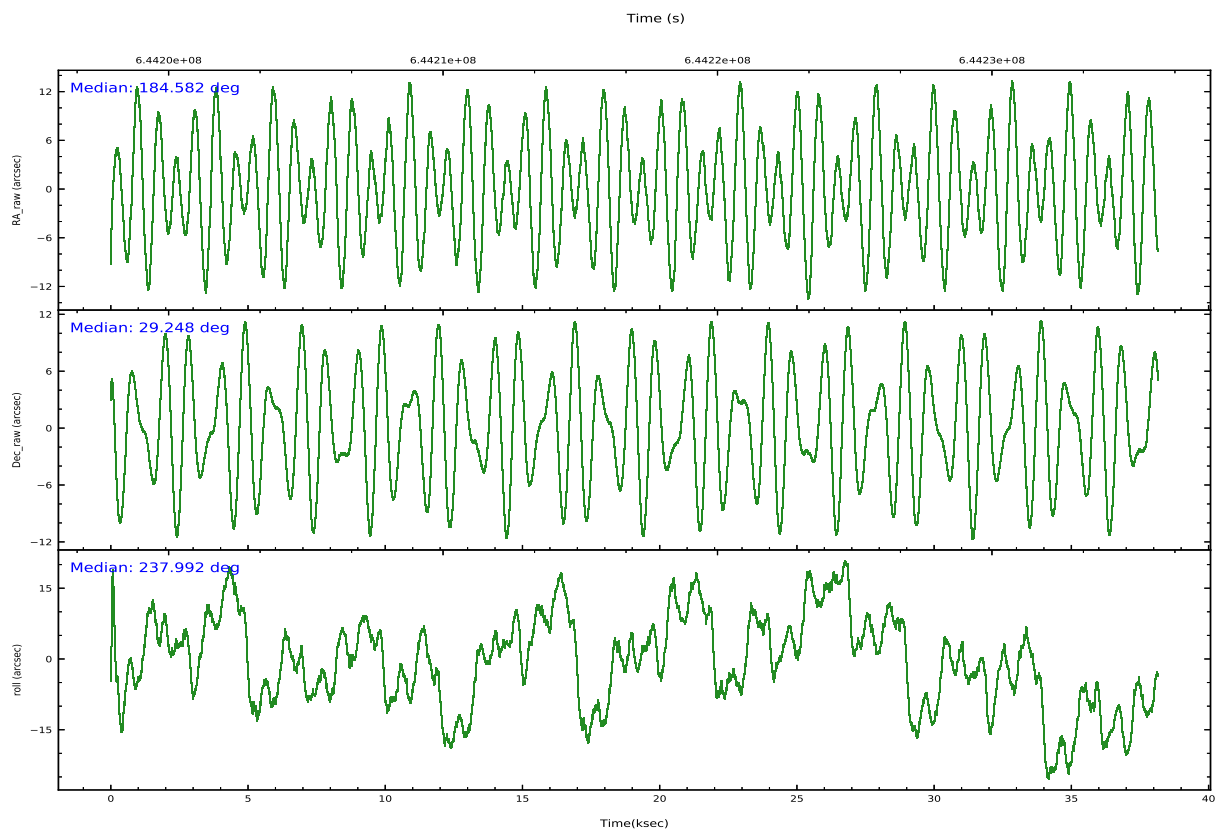
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	289583	273925	300072	365510	380415	grade 0 events	10353	11067	10999	13390	29343
rejected events	260010	244039	266547	207529	276383		3%	4%	3%	3%	7%
rejected %	89%	89%	88%	56%	72%	grade 1 events	154	163	173	588	300
							0%	0%	0%	0%	0%
						grade 2 events	7433	6490	8120	33346	25179
							2%	2%	2%	9%	6%
						grade 3 events	2942	3109	3273	12584	10633
							1%	1%	1%	3%	2%
						grade 4 events	2921	2962	3188	12451	9812
							1%	1%	1%	3%	2%
						grade 5 events	10702	13061	13097	35934	20428
							3%	4%	4%	9%	5%
						grade 6 events	5928	6262	7953	86229	29097
							2%	2%	2%	23%	7%
						grade 7 events	249150	230811	253269	170988	255623
							86%	84%	84%	46%	67%

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	184.582983	184.57973813705	CCD I2 on	O2	Y
[deg] Pointing Dec	29.275143	29.254698899825	CCD I3 on	O3	Y
[deg] Pointing Roll	237.836794	237.99229823548	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	O4	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	O1	Y
[s] Observation start time (MET)	644198056.184000	644196847.08384	CCD S5 on	N	N
Observation start date	2018-05-31T23:53:07	2018-05-31T23:34:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	644236056.184000	644236896.39871	On-chip summing requested	N	N
Observation end date	2018-06-01T10:26:27	2018-06-01T10:41:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



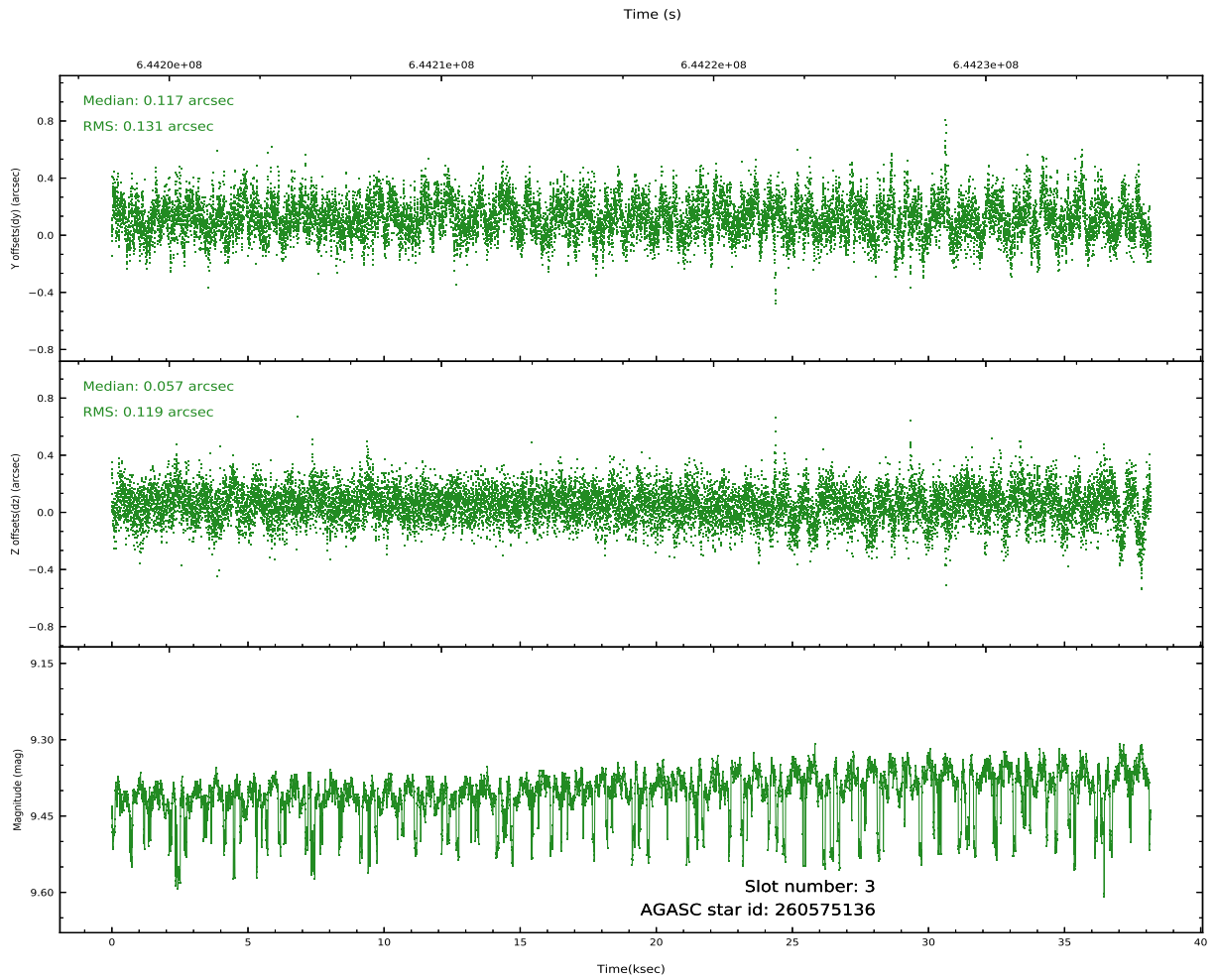
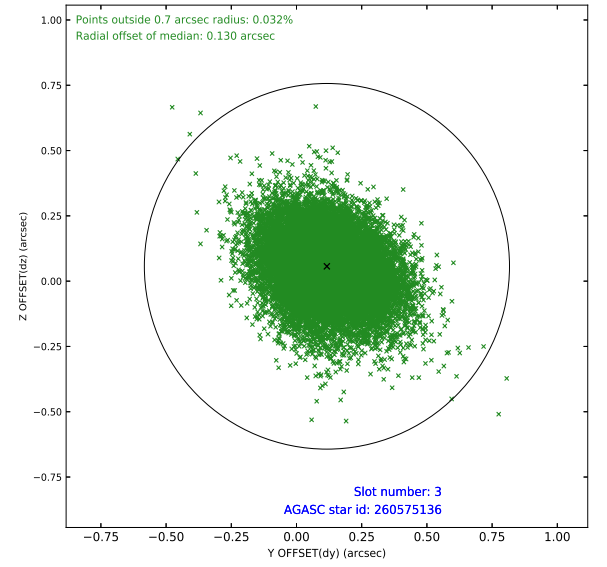
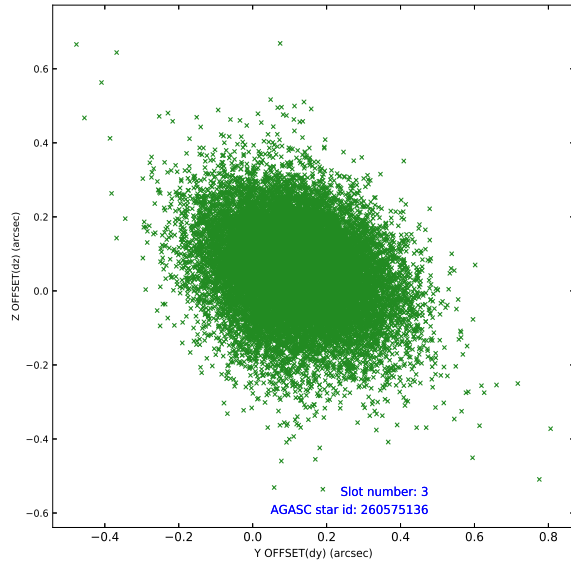


Slot Statistics

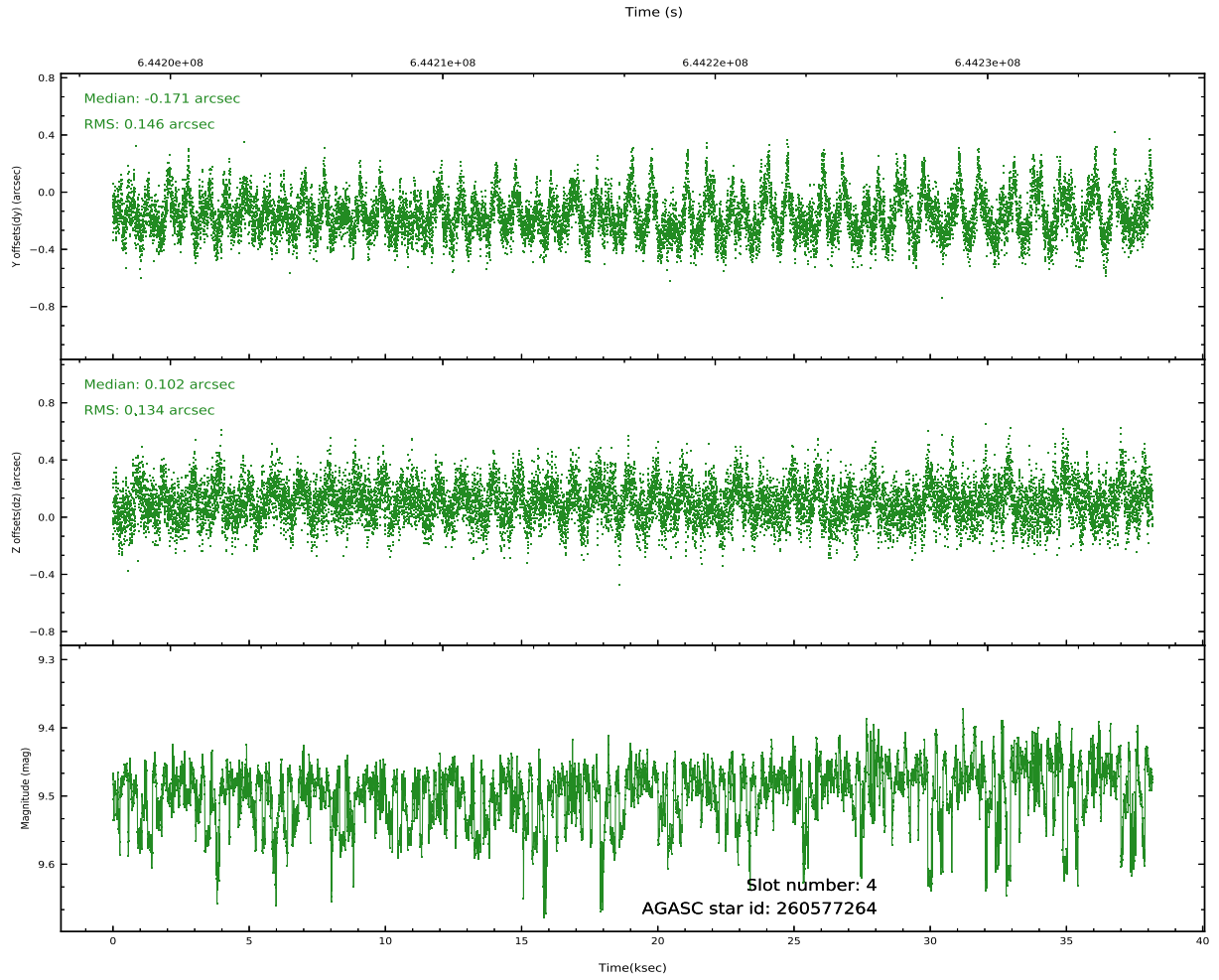
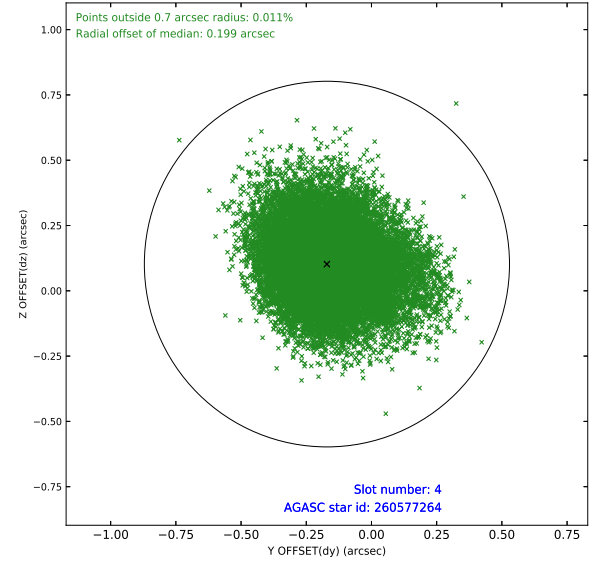
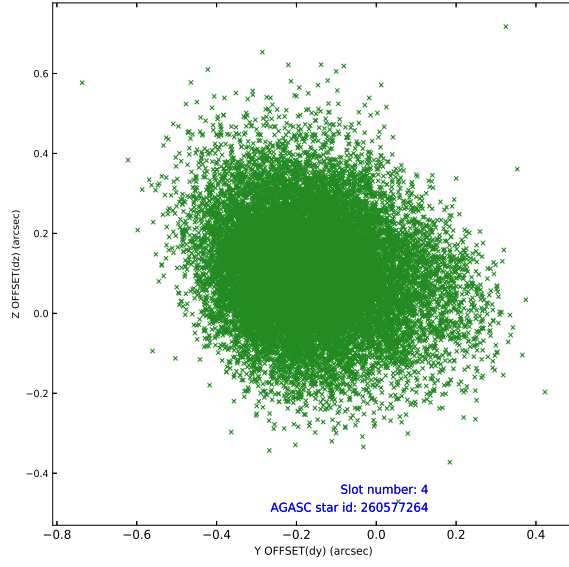
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.17	9308	1.000	0.290	-0.154	0.049	0.075	0.000000	0.000000	927.16	-1737
1	FID		ACIS-S-5	7.18	9308	1.000	-0.272	0.228	0.026	0.042	0.000000	0.000000	-1822.24	161
2	FID		ACIS-S-6	7.34	9307	1.000	-0.042	-0.038	0.044	0.056	0.000000	0.000000	392.55	804
3	GUIDE	used	260575136	9.40	18599	1.000	0.117	0.057	0.187	0.308	184.065390	28.836709	2203.39	-542
4	GUIDE	used	260577264	9.49	18588	1.000	-0.171	0.102	0.209	0.344	183.832255	29.107902	1761.01	-1682
5	GUIDE	used	260969480	9.05	18597	1.000	0.076	-0.002	0.199	0.314	184.329513	28.726397	2098.79	372
6	GUIDE	used	260969864	10.05	18405	1.000	0.050	0.257	0.356	0.568	184.508412	28.652291	2024.58	994
7	GUIDE	used	260979504	6.13	18616	1.000	-0.069	-0.410	0.173	0.290	184.377399	28.937186	1374.74	97

2.4 Star Slots

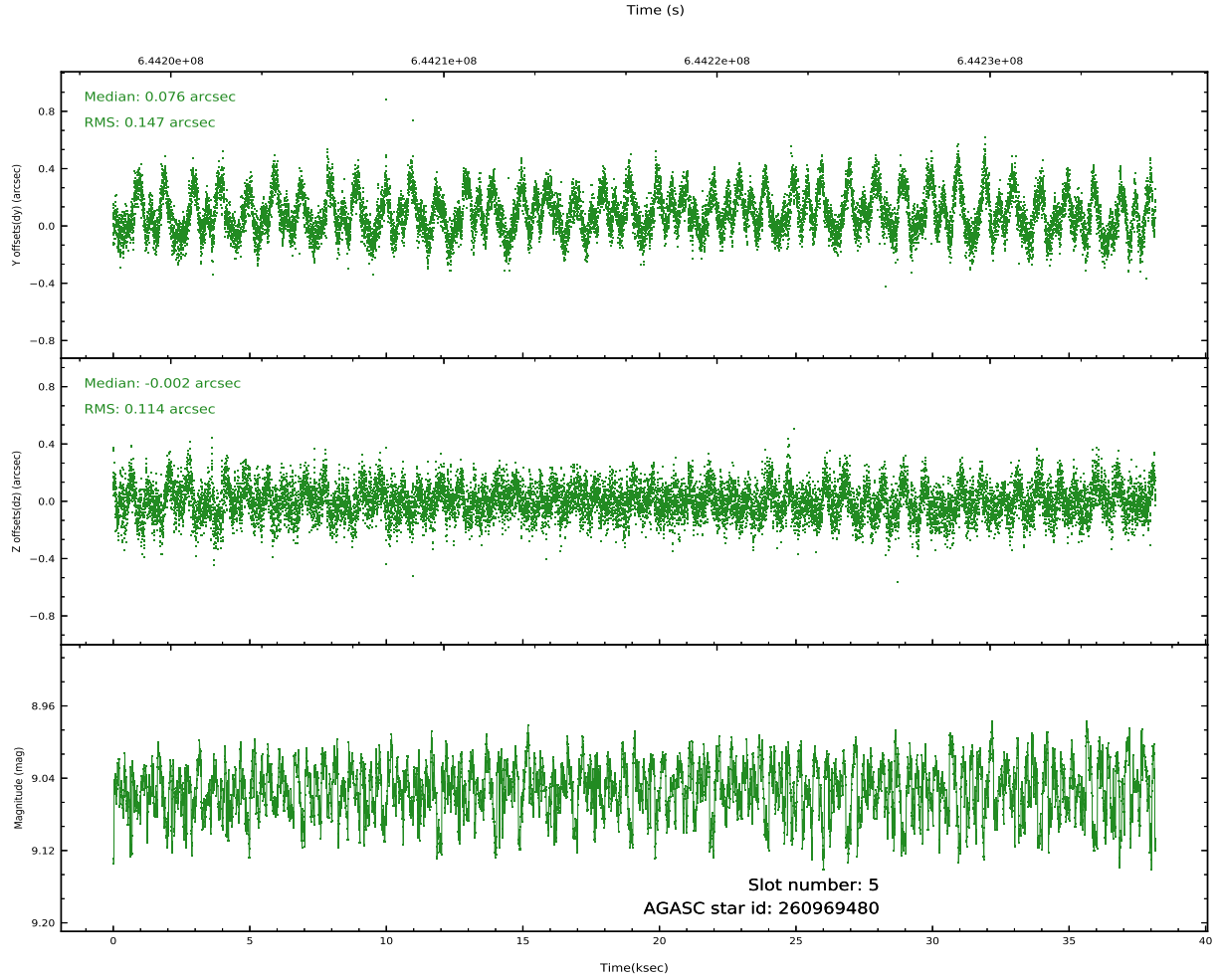
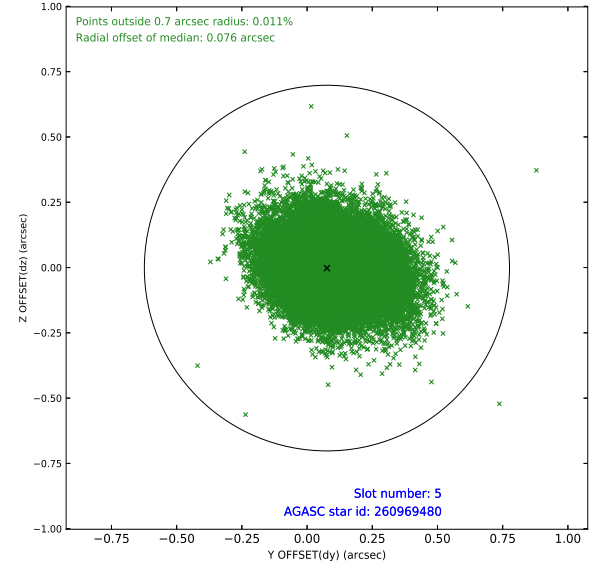
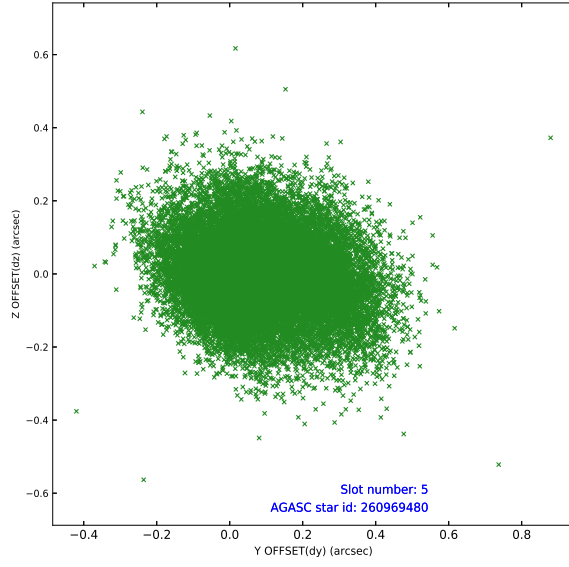
2.4.1 Slot 3



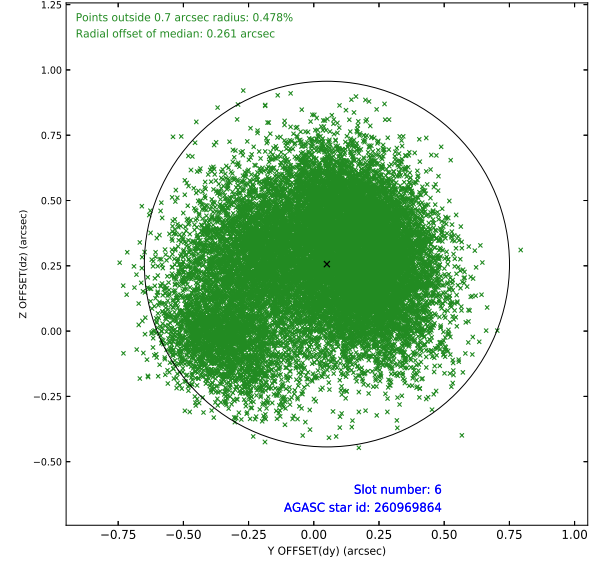
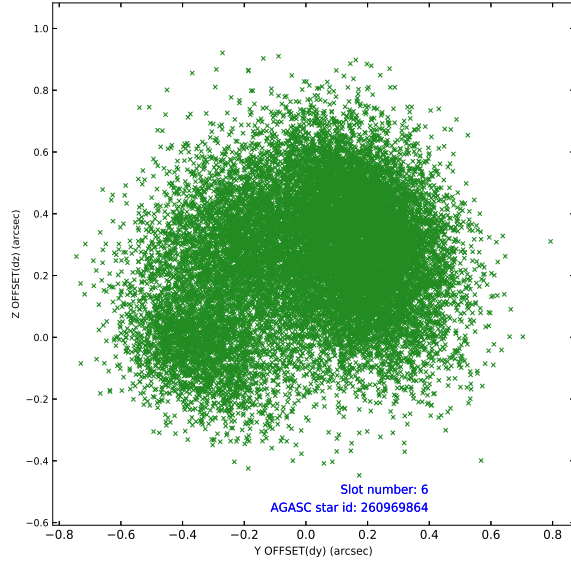
2.4.2 Slot 4



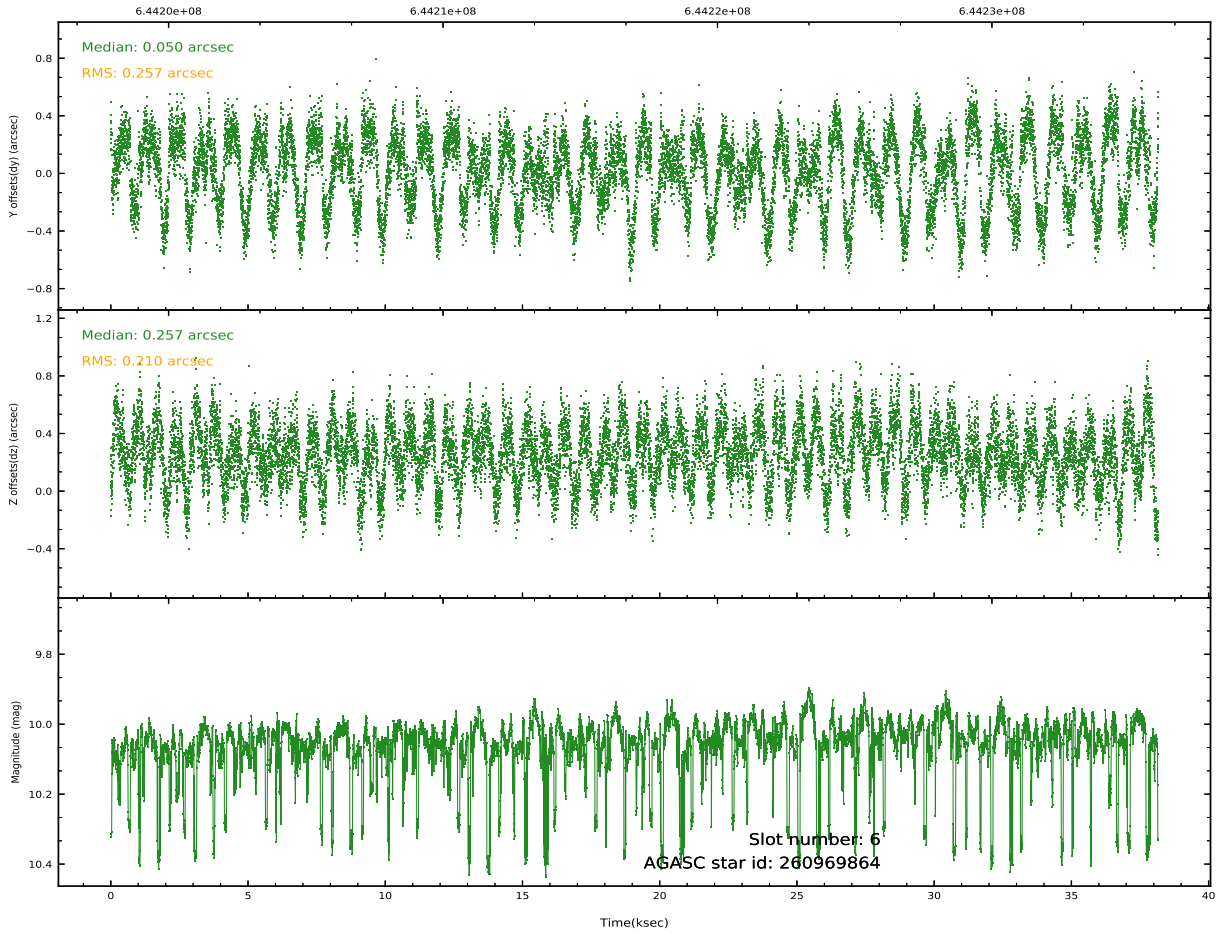
2.4.3 Slot 5



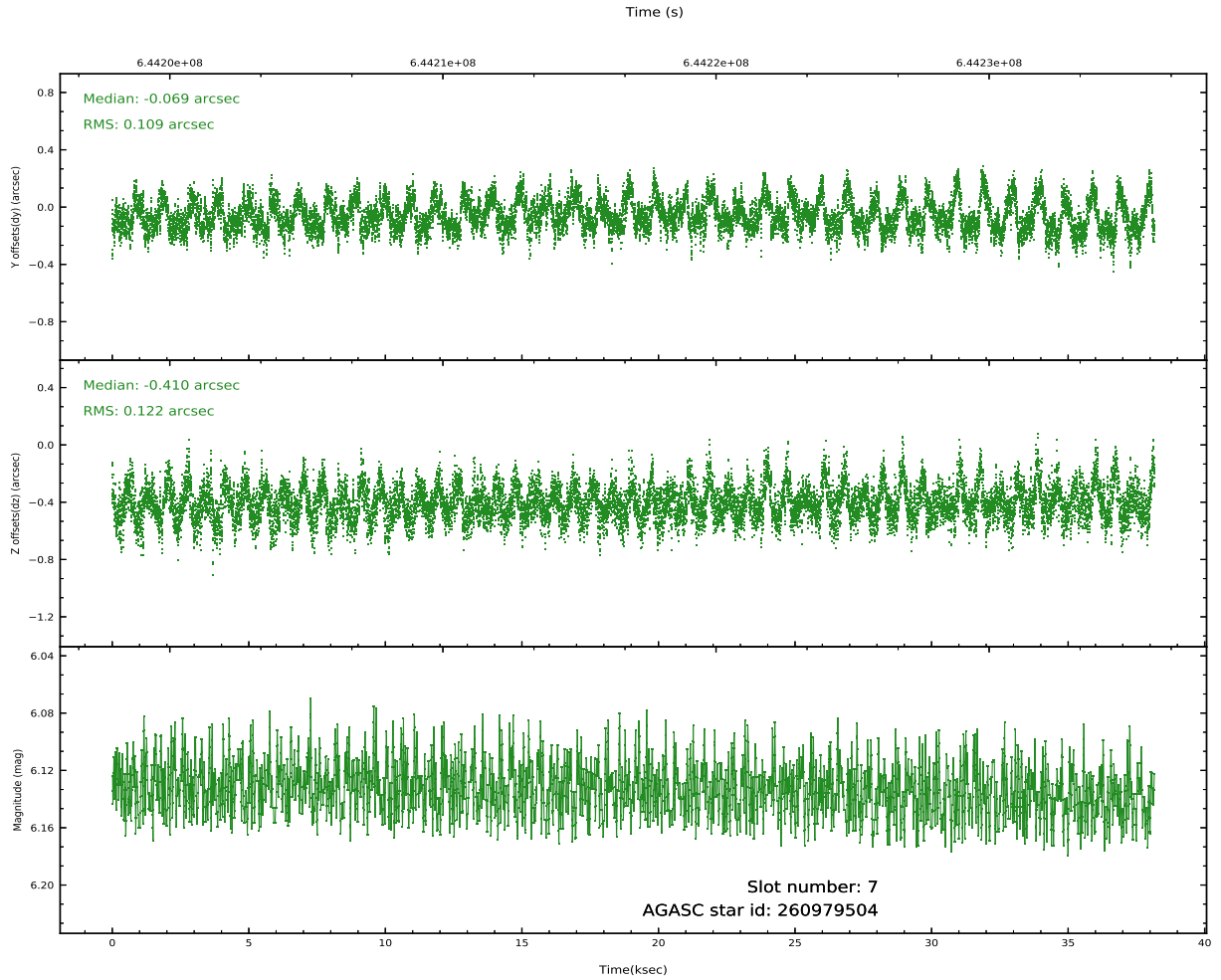
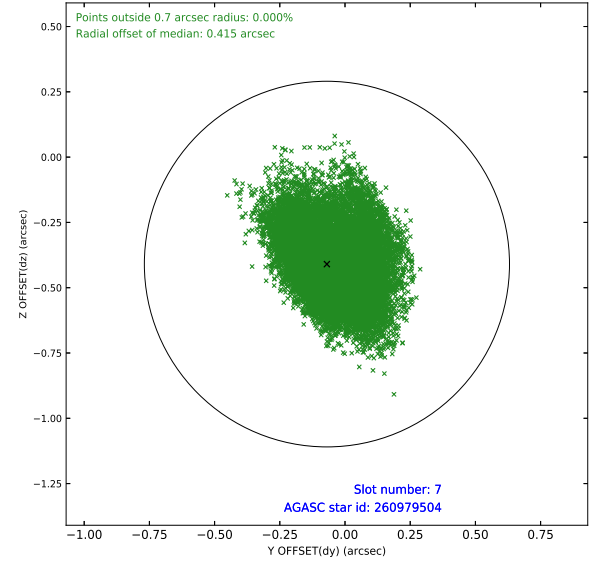
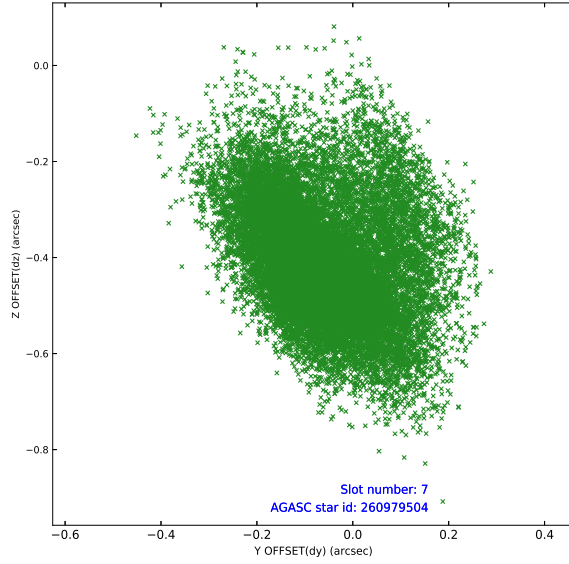
2.4.4 Slot 6



Time (s)

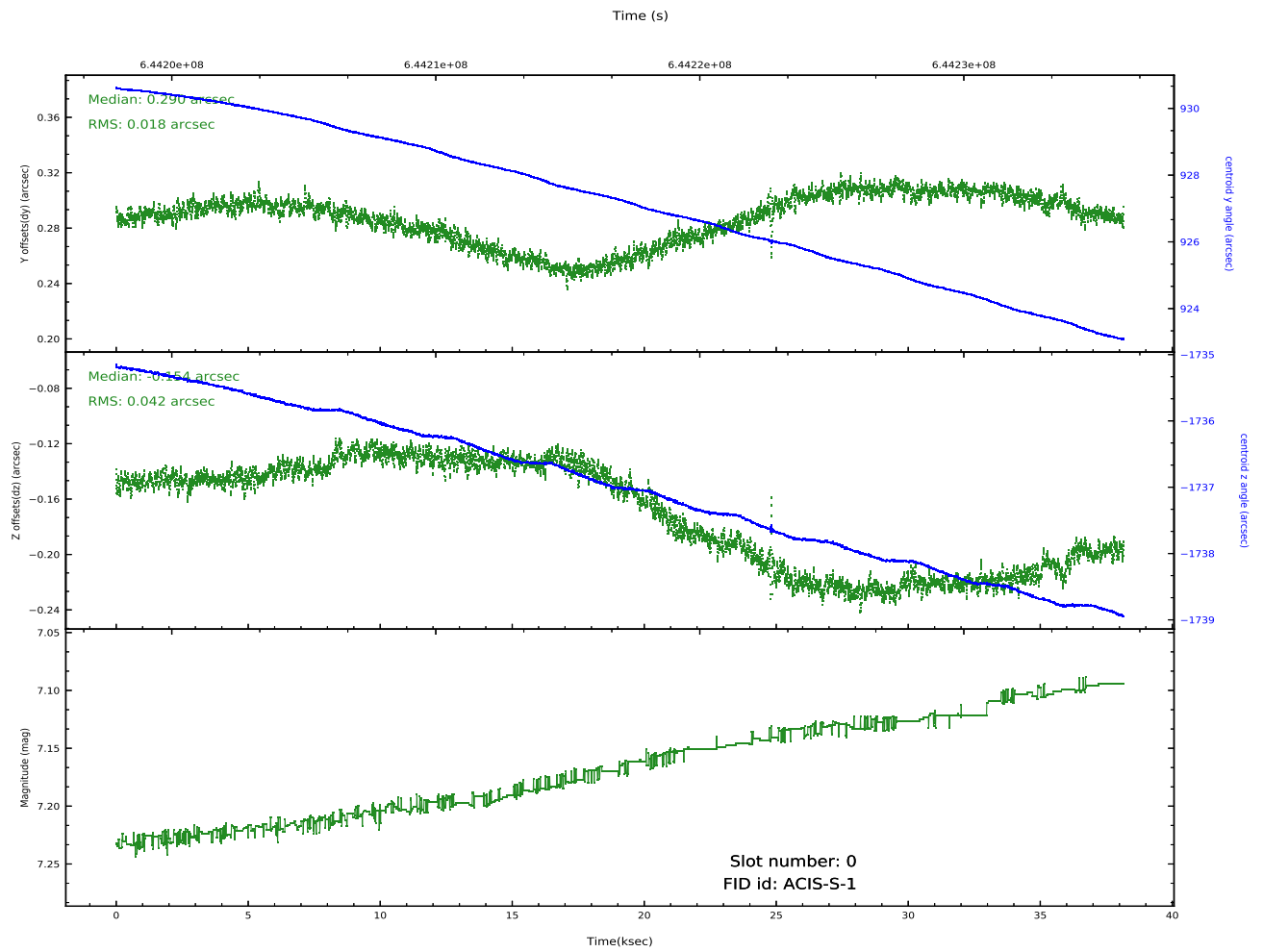
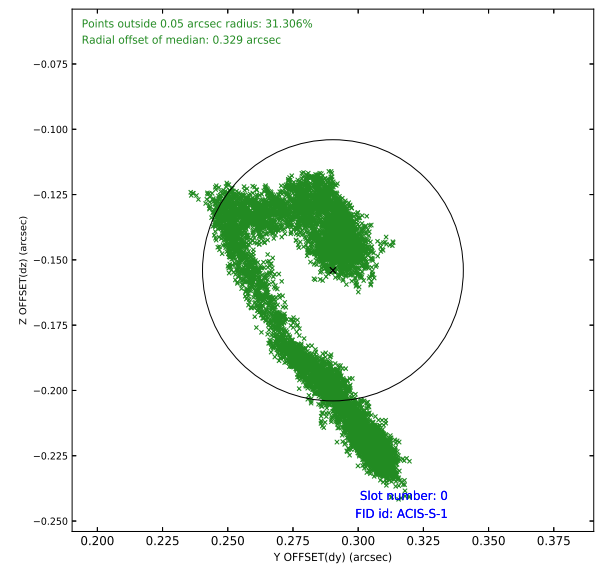
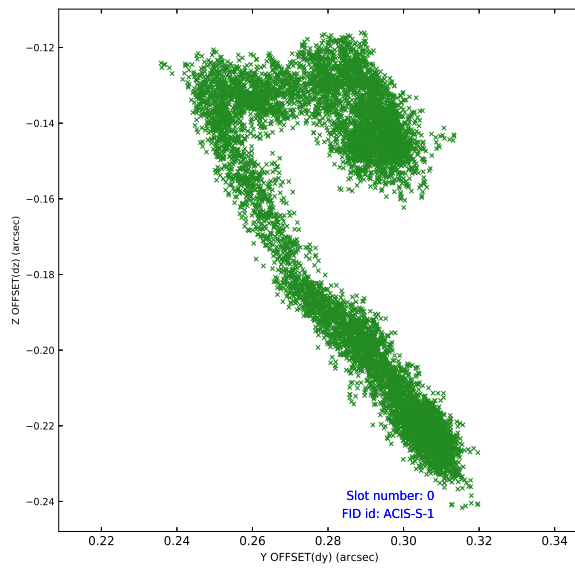


2.4.5 Slot 7

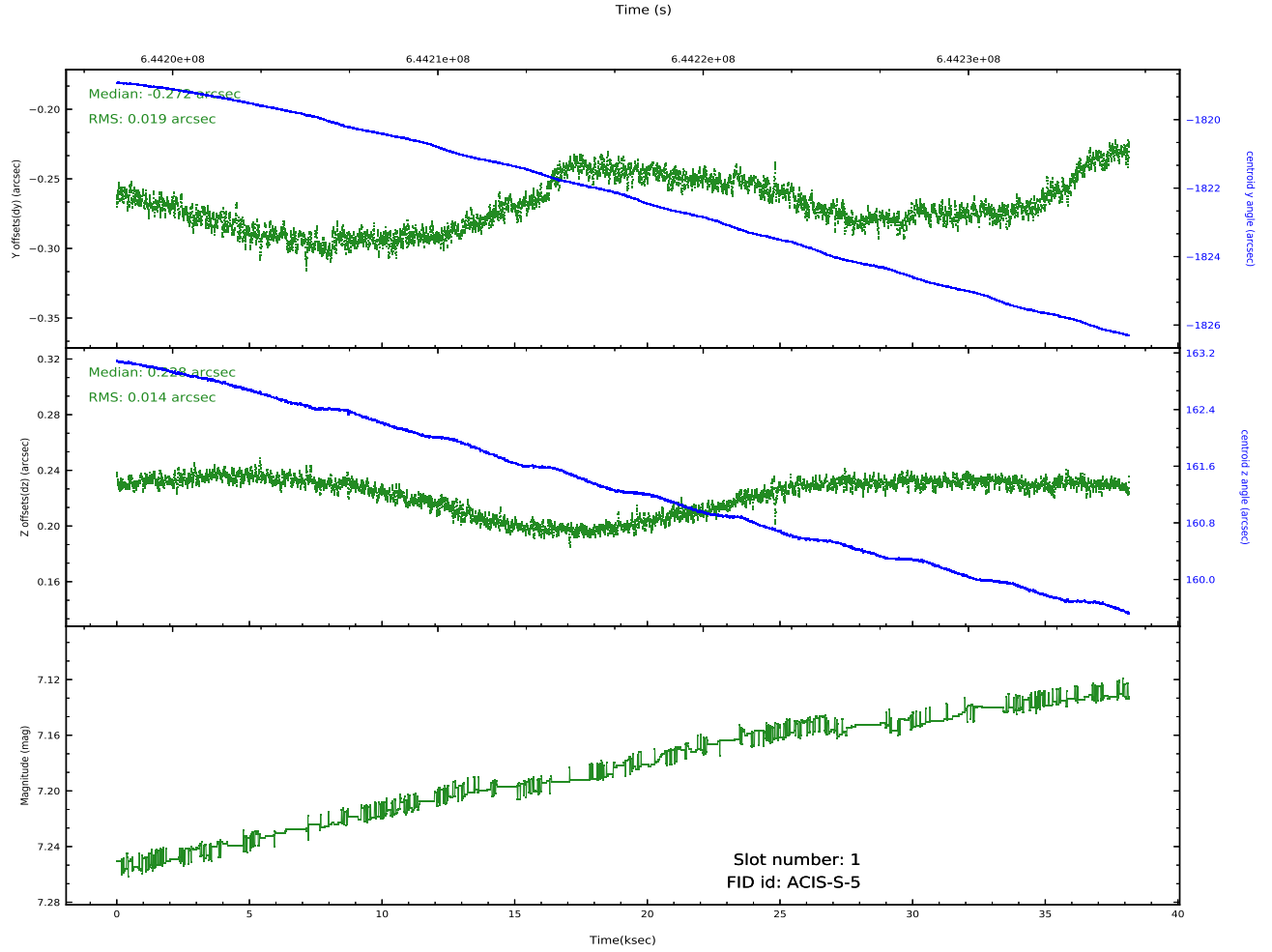
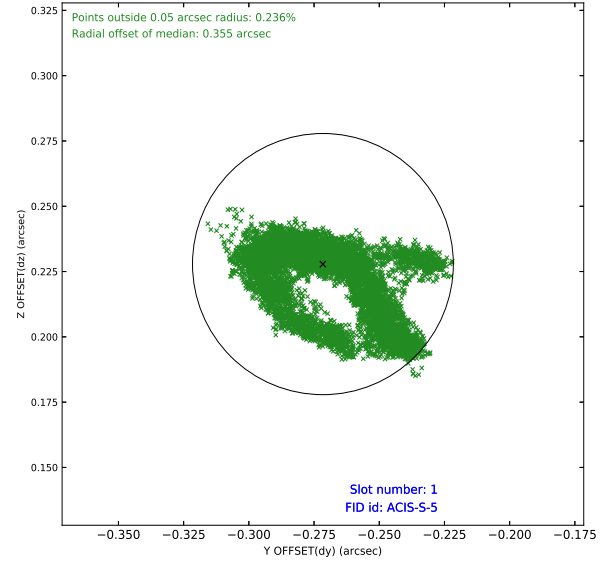
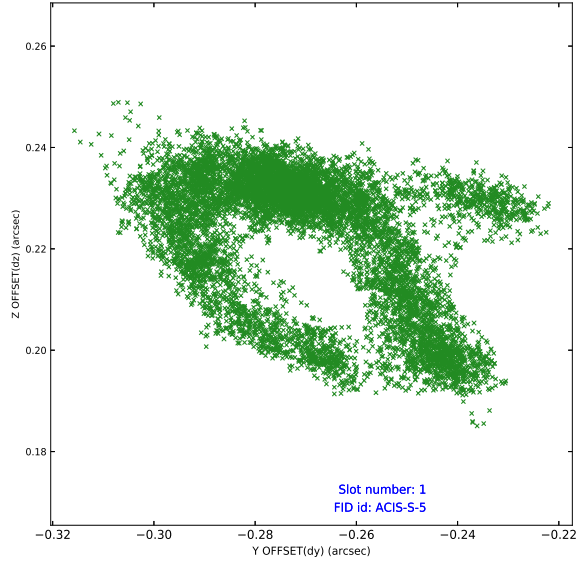


2.5 FID Slots

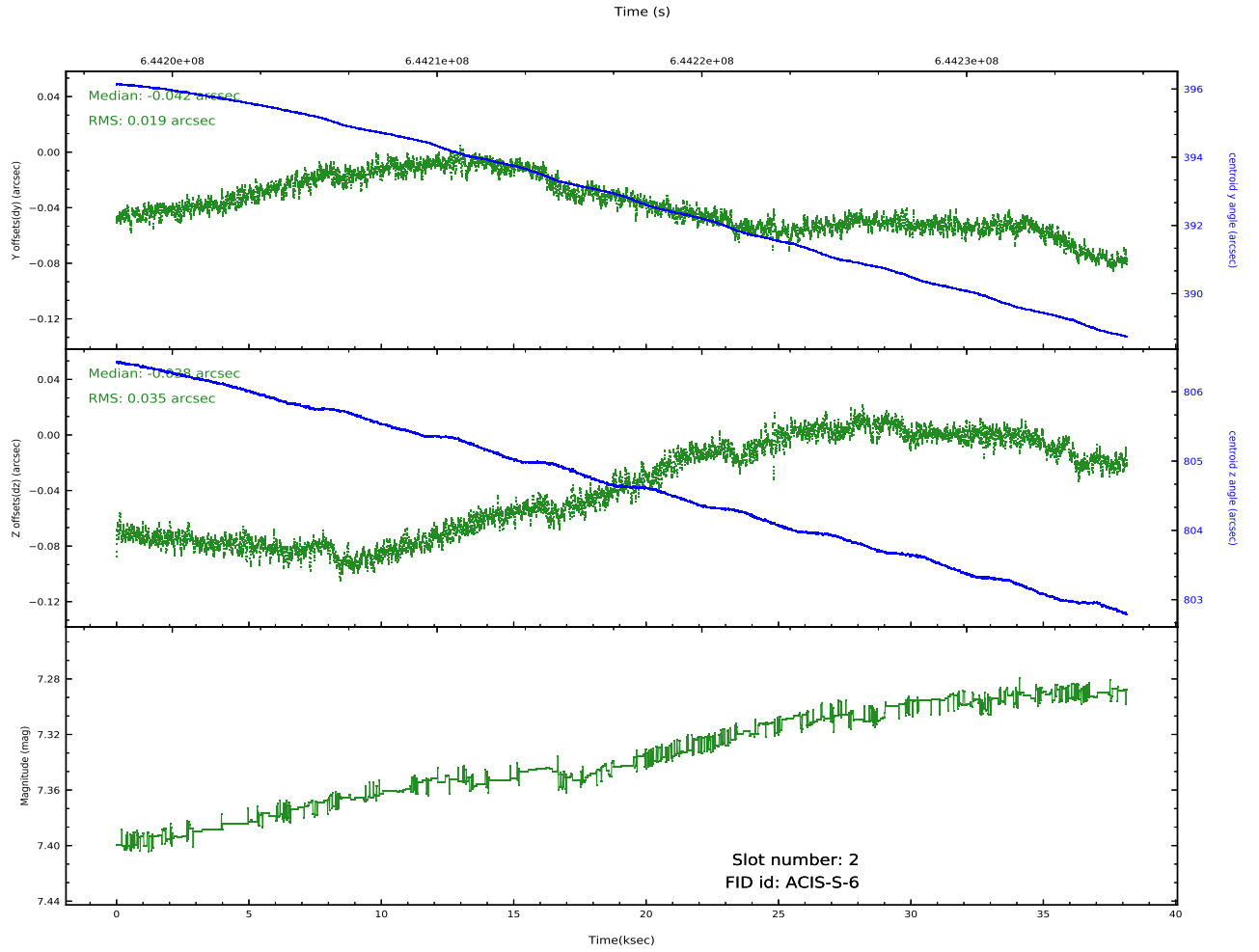
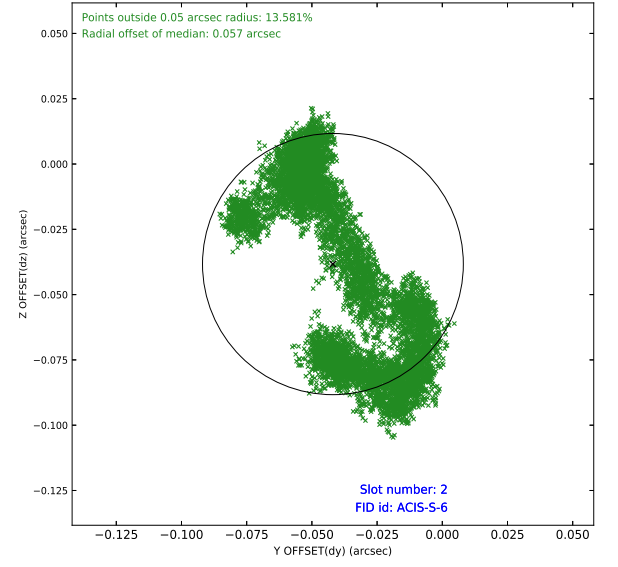
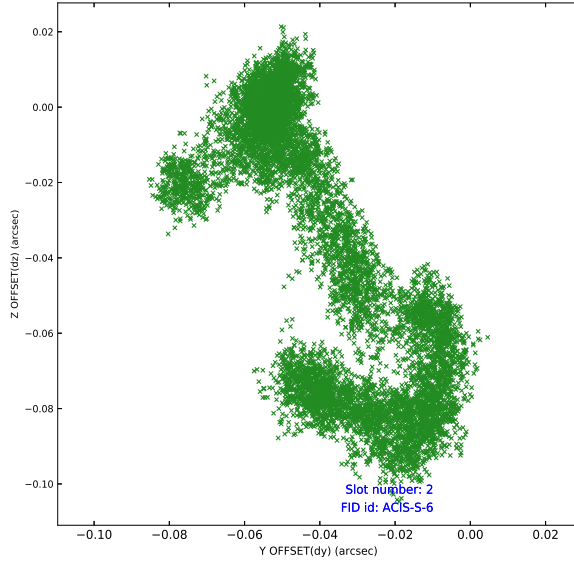
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.054678707957

A.2 Comments