

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21021 - L2 Version 2
Chandra X-Ray Center

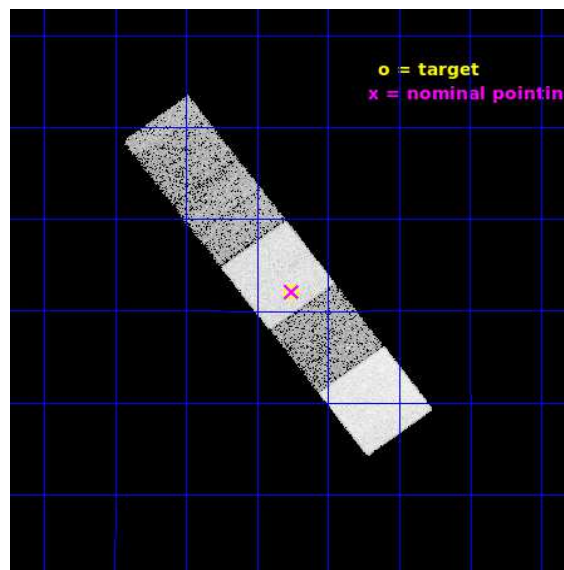
L2 Processing Date : Oct 27 2020

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1 Front

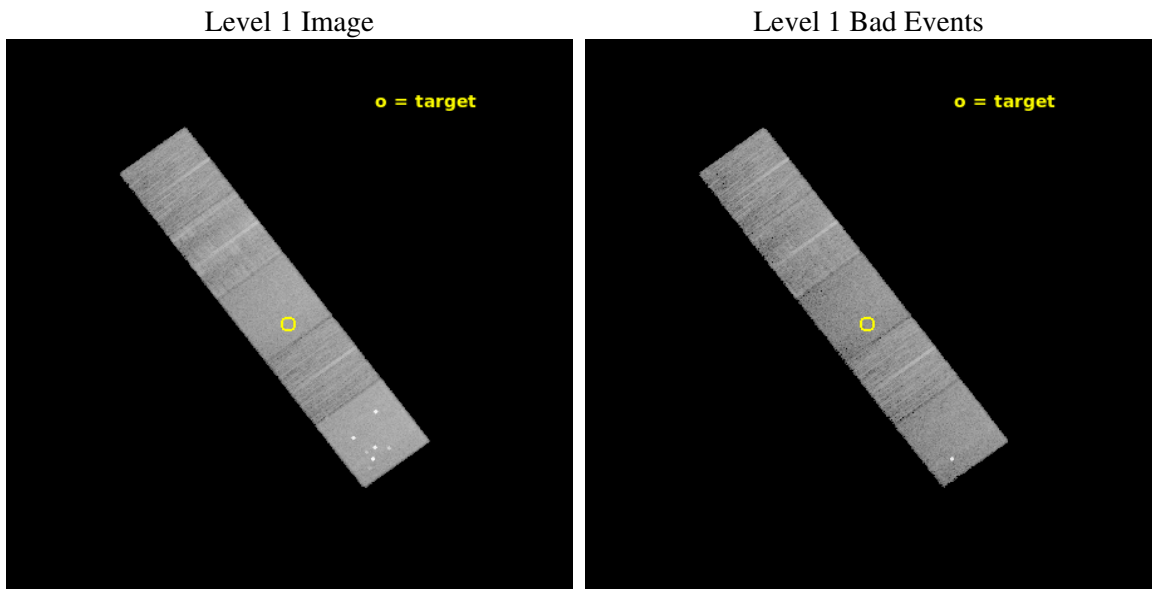
seq_num	703662	Sequence number
obs_id	21021	Observation id
title	LOW SURFACE BRIGHTNESS GALAXIES AND THE BLACK HOLE OCCUPATION FRACTION	Proposal title
observer	Elena Gallo	Principal investigator
object	LSBC F743-01	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	319.689167	Observer's specified target RA [deg]
dec_targ	8.367222	Observer's specified target Dec [deg]
ra_nom	319.68873295348	Nominal RA [deg]
dec_nom	8.3683234226609	Nominal Dec [deg]
roll_nom	233.22329964714	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10450.10008049	Sum of GTIs [s]
liveltime	10313.561829687	Livetime [s]
ontime5	10450.10008049	Sum of GTIs [s]
ontime6	10450.10008049	Sum of GTIs [s]
ontime7	10450.10008049	Sum of GTIs [s]
ontime8	10450.10008049	Sum of GTIs [s]
ontime9	10450.10008049	Sum of GTIs [s]
l2events	126755	Number of level 2 events



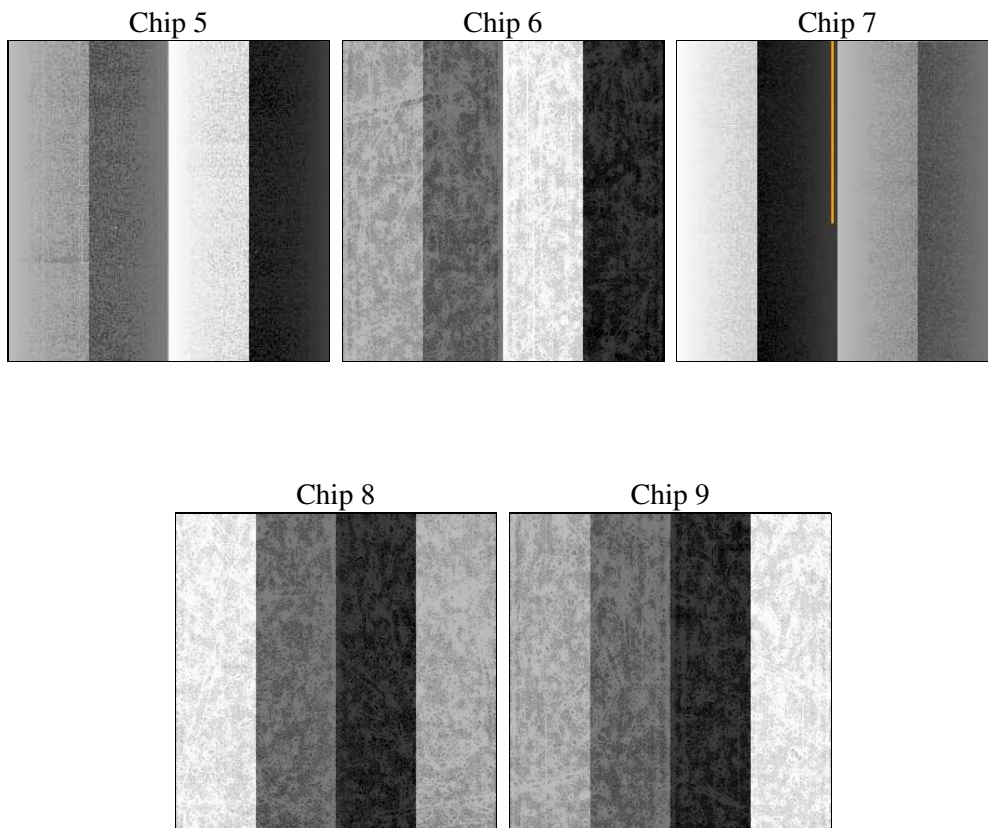
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10400.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10450.10008049	Sum of GTIs [s]
caldbver	4.9.3	 	ontime5	10450.10008049	Sum of GTIs [s]
date	2020-10-27T16:03:03	Date and time of file creation	ontime6	10450.10008049	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	10450.10008049	Sum of GTIs [s]
			ontime8	10450.10008049	Sum of GTIs [s]
			ontime9	10450.10008049	Sum of GTIs [s]
			l1events	512179	Number of level 1 events

2.1.4 Events

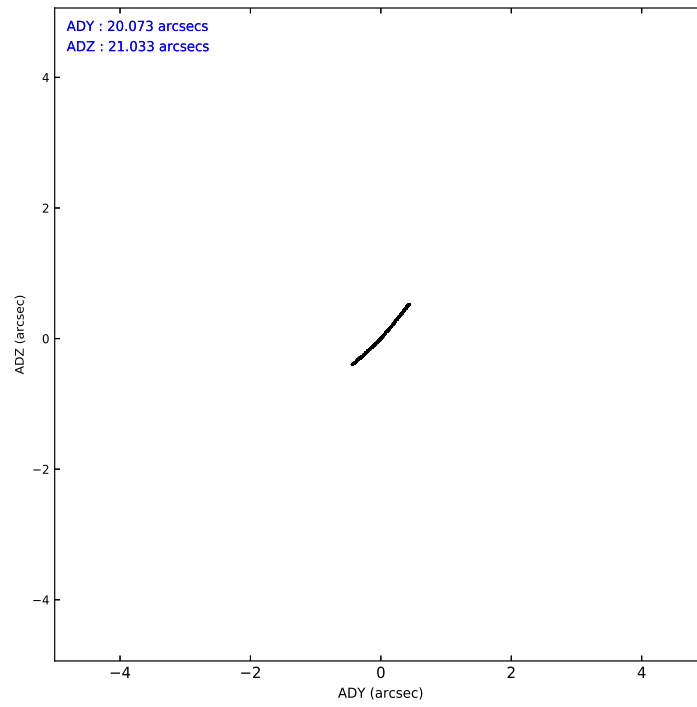
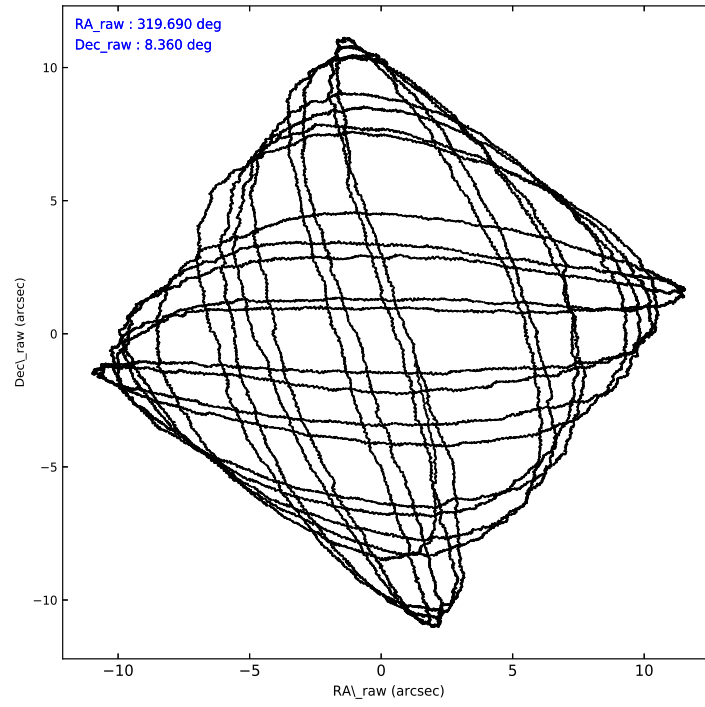
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	141456	82543	103119	103537	81524
rejected events	69521	73557	58686	74928	71721
rejected %	49%	89%	56%	72%	87%

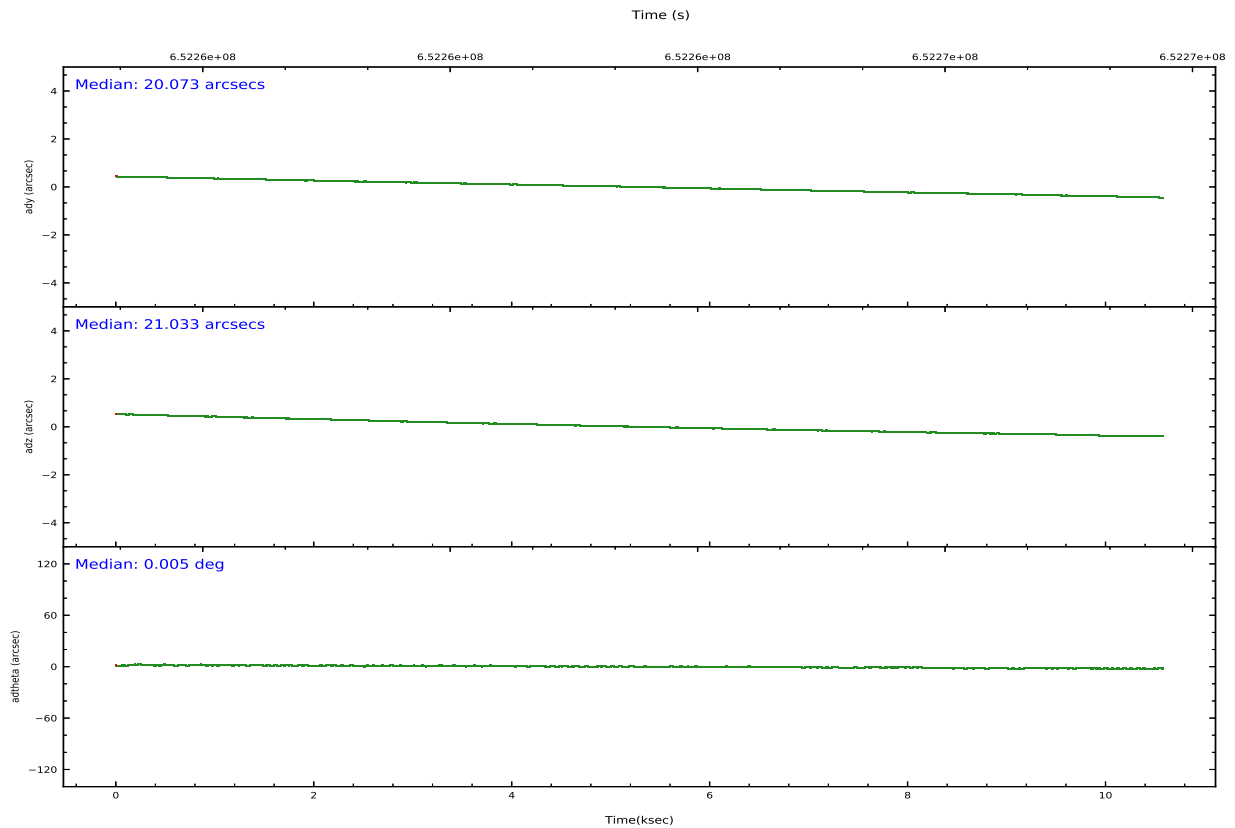
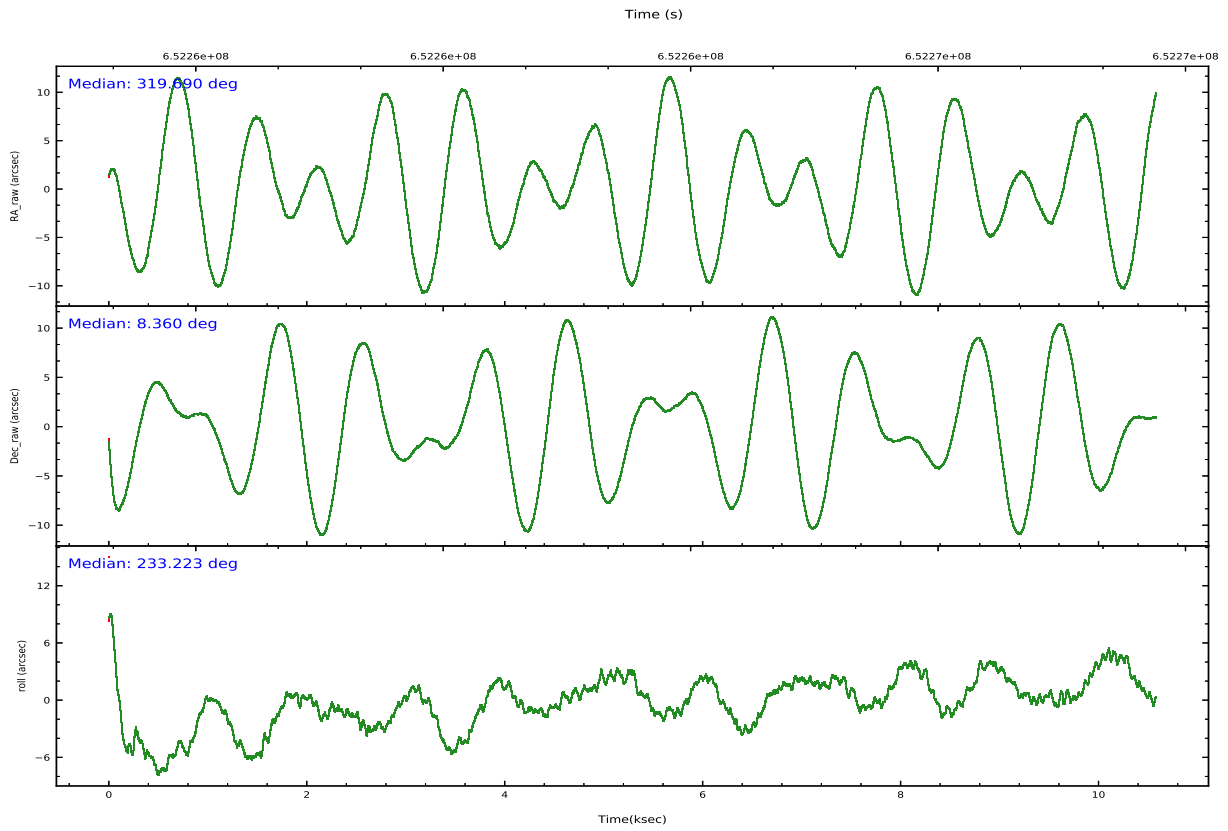
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	13565	2928	3682	8118	3437
	9%	3%	3%	7%	4%
grade 1 events	295	38	165	96	53
	0%	0%	0%	0%	0%
grade 2 events	20632	2211	9441	7070	2236
	14%	2%	9%	6%	2%
grade 3 events	2047	871	3453	3014	977
	1%	1%	3%	2%	1%
grade 4 events	1887	855	3507	2617	1004
	1%	1%	3%	2%	1%
grade 5 events	9035	3826	10259	5777	4449
	6%	4%	9%	5%	5%
grade 6 events	33847	2126	24388	7823	2153
	23%	2%	23%	7%	2%
grade 7 events	60148	69688	48224	69022	67215
	42%	84%	46%	66%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-56789	ACIS-56789	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	319.693027	319.68873295348	CCD I2 on	N	N
[deg] Pointing Dec	8.387396	8.3683234226609	CCD I3 on	N	N
[deg] Pointing Roll	233.075720	233.22329964714	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[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	Y	Y
[s] Observation start time (MET)	652259305.184000	652257684.3365099	CCD S5 on	O2	Y
Observation start date	2018-09-02T07:07:16	2018-09-02T06:41:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	652269705.184000	652270619.83728	On-chip summing requested	N	N
Observation end date	2018-09-02T10:00:36	2018-09-02T10:16:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



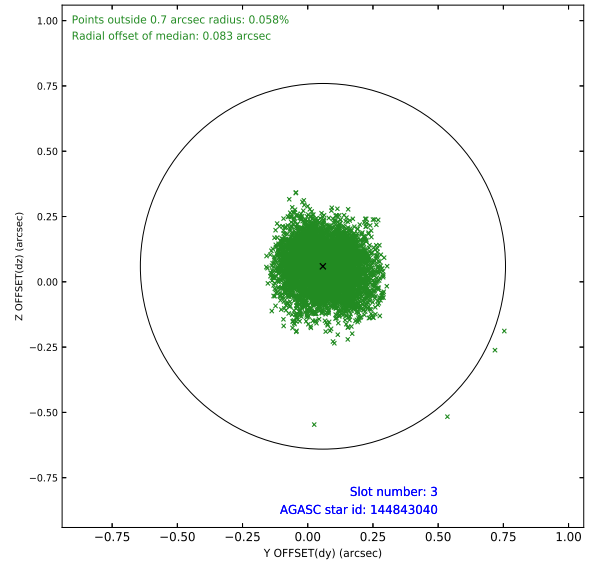
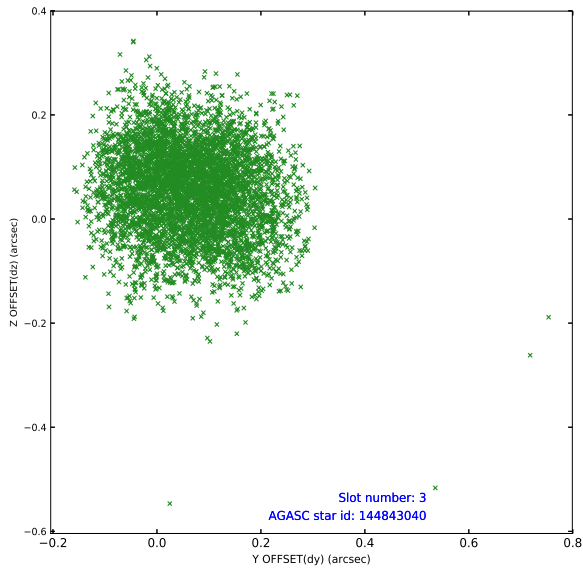


Slot Statistics

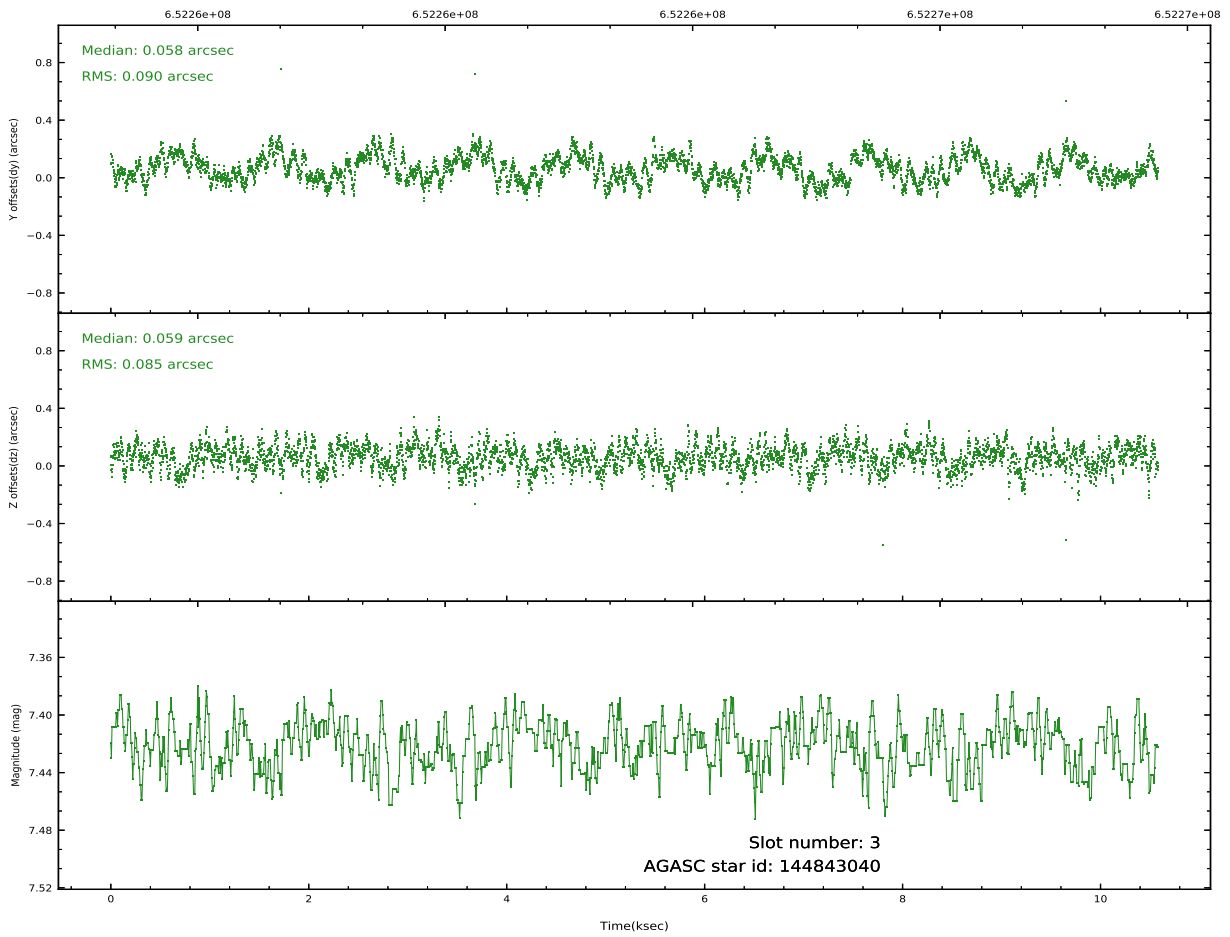
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.99	2582	1.000	0.118	-0.085	0.016	0.023	0.000000	0.000000	-773.33	-1742
1	FID		ACIS-S-4	7.11	2582	1.000	0.086	-0.034	0.028	0.037	0.000000	0.000000	2139.97	165
2	FID		ACIS-S-5	7.10	2582	1.000	-0.233	0.128	0.015	0.021	0.000000	0.000000	-1825.61	160
3	GUIDE	used	144843040	7.42	5163	1.000	0.058	0.059	0.133	0.206	319.654905	8.959655	-1566.10	-1343
4	GUIDE	used	144845248	8.74	5159	1.000	0.215	0.142	0.121	0.194	319.615110	8.907337	-1327.03	-1347
5	GUIDE	used	144846912	6.62	5163	1.000	0.103	-0.027	0.100	0.165	319.355395	8.234062	1163.28	-629
6	GUIDE	used	144848328	6.18	5163	1.000	-0.290	-0.253	0.079	0.141	319.572670	7.760448	2062.43	1012
7	GUIDE	used	144974904	8.16	5160	1.000	-0.085	0.083	0.119	0.196	320.155448	8.211655	-484.00	1696

2.4 Star Slots

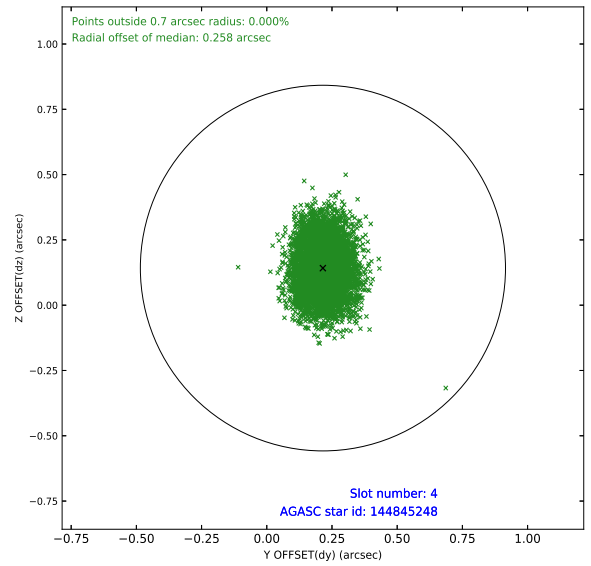
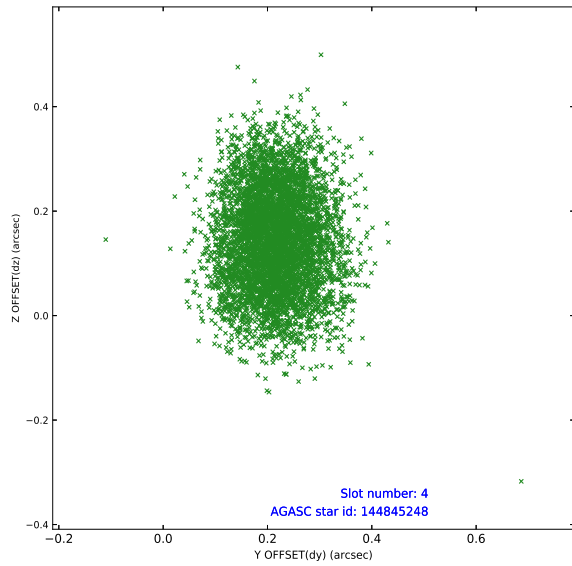
2.4.1 Slot 3



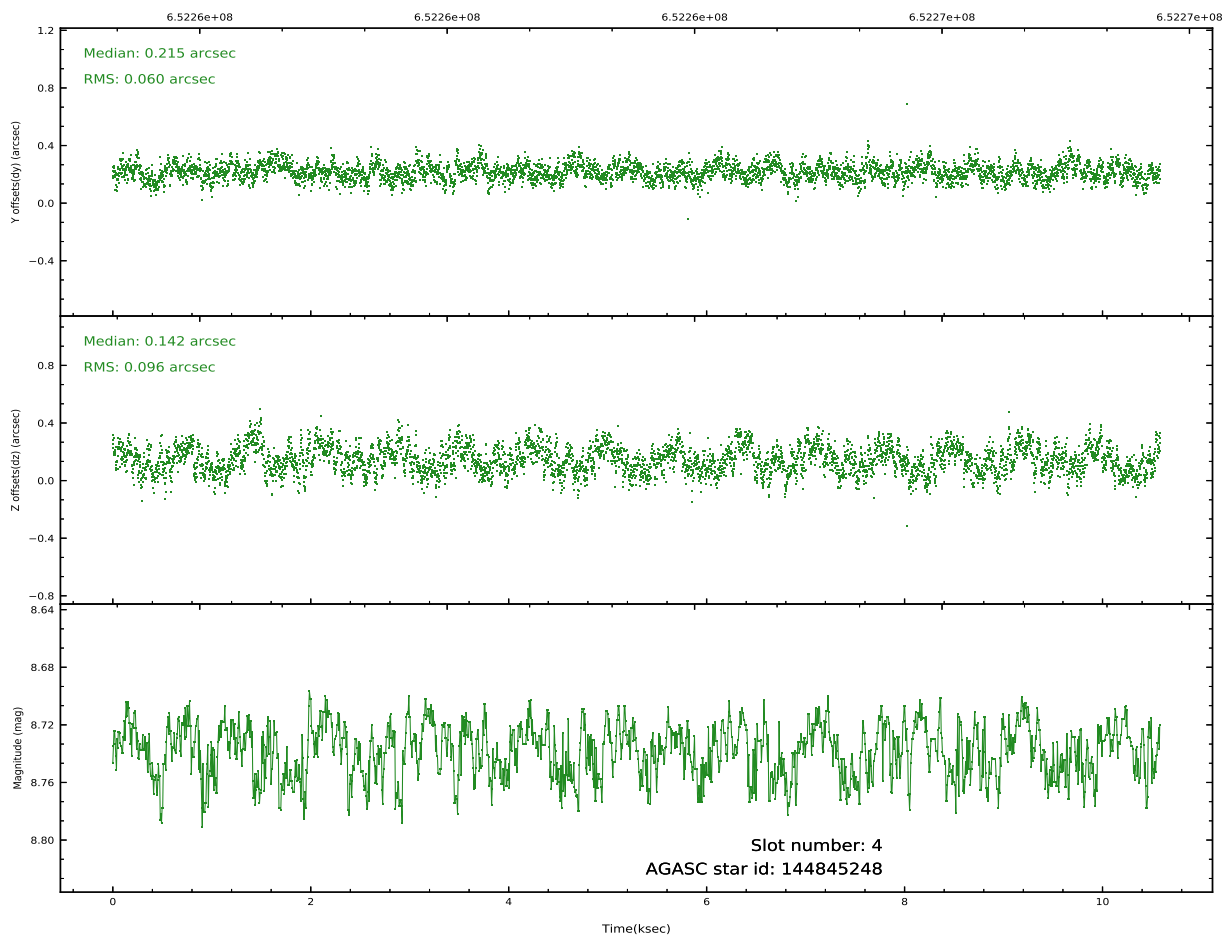
Time (s)



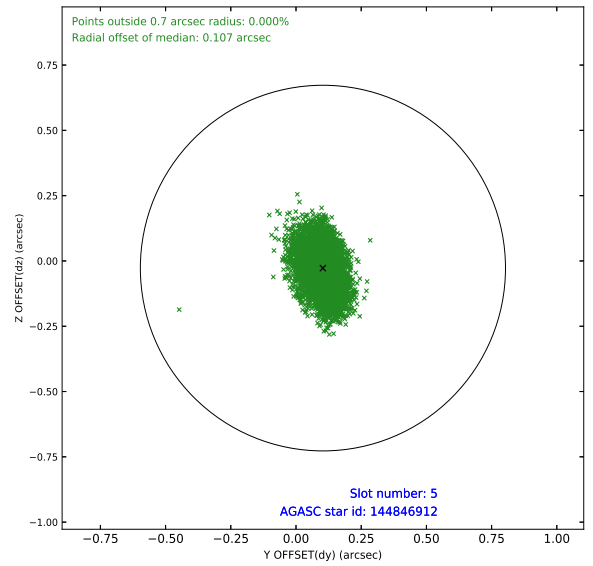
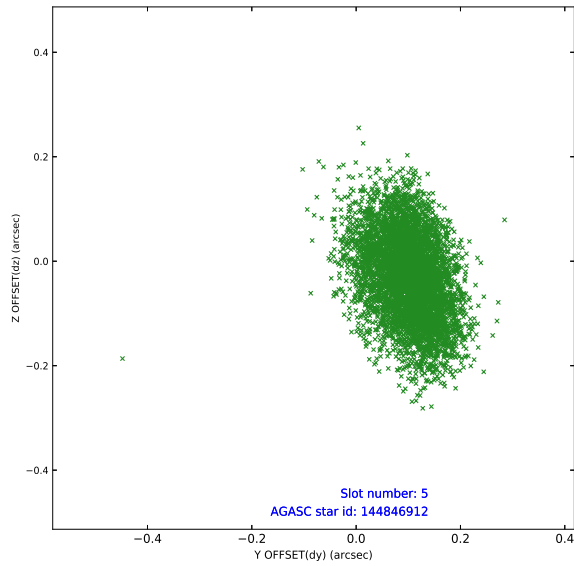
2.4.2 Slot 4



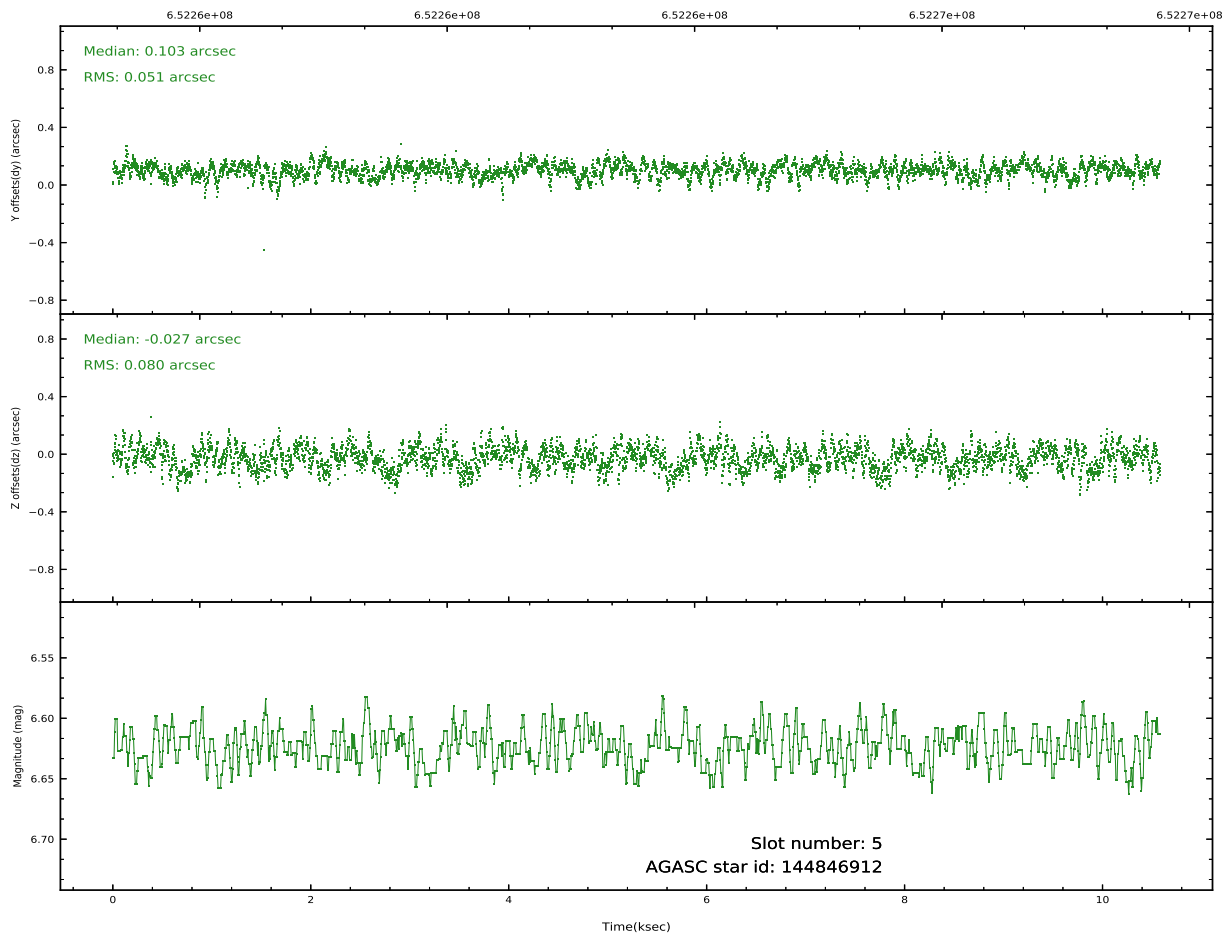
Time (s)



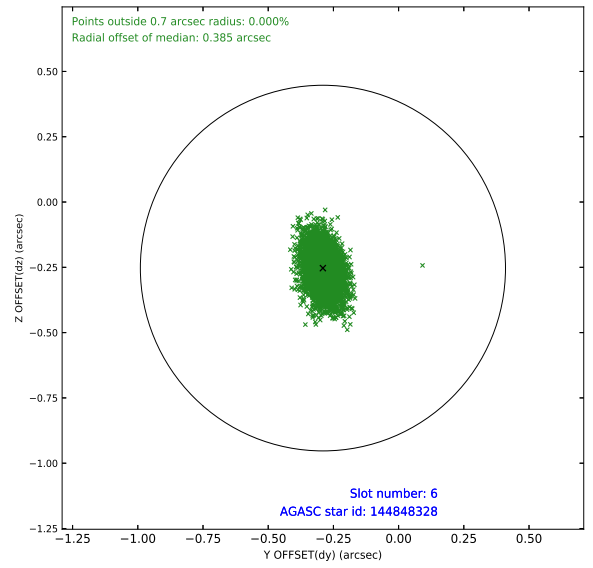
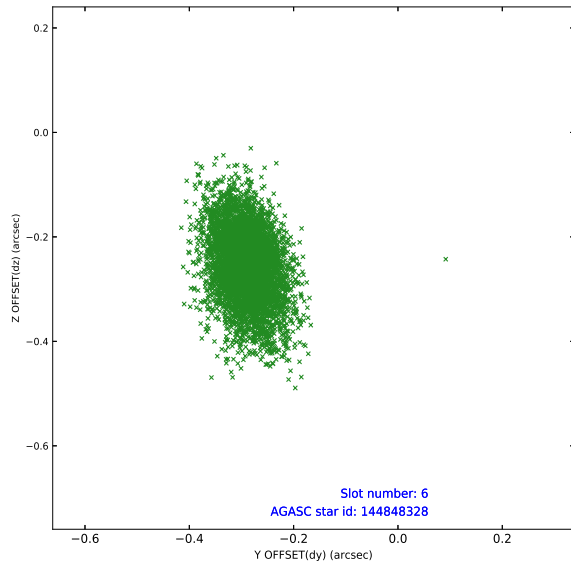
2.4.3 Slot 5



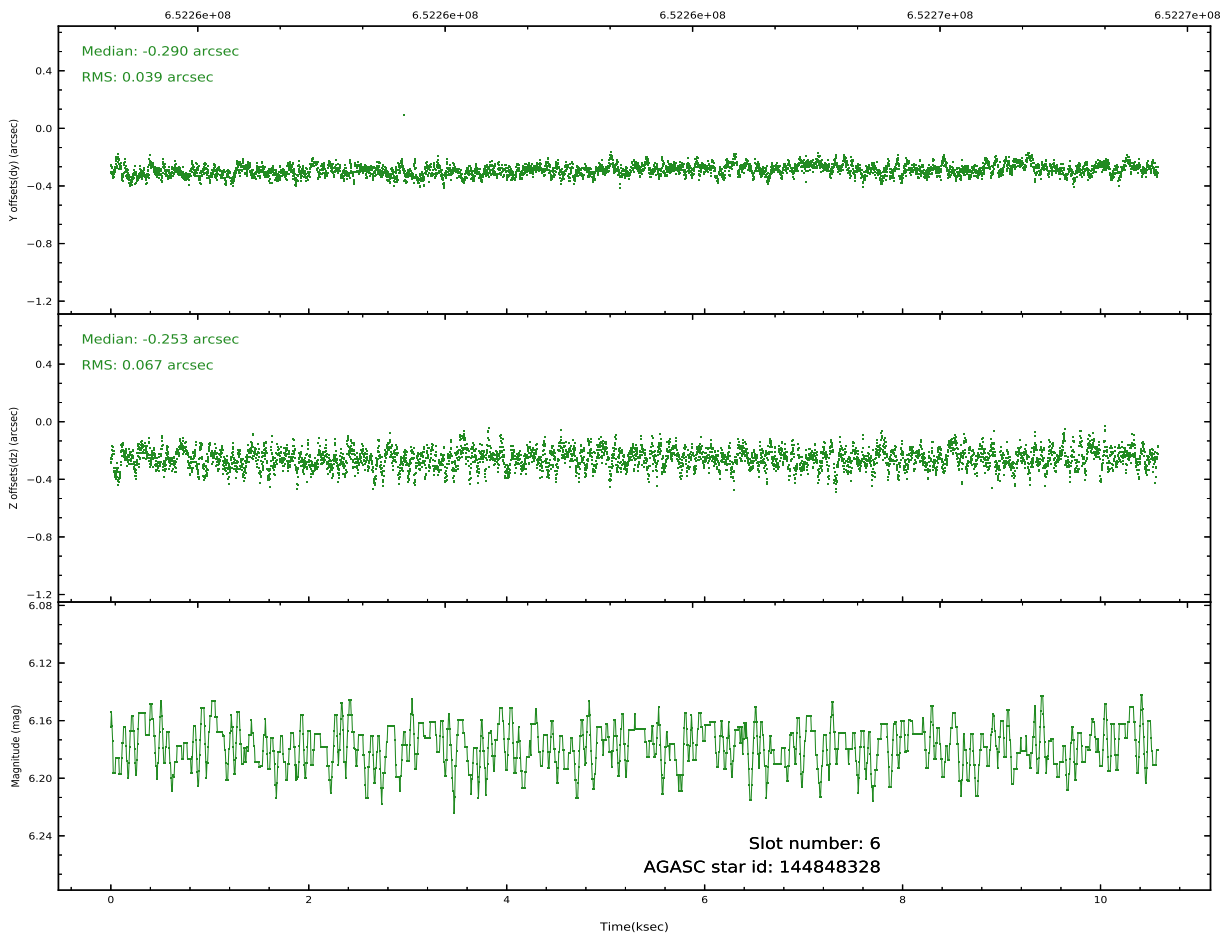
Time (s)



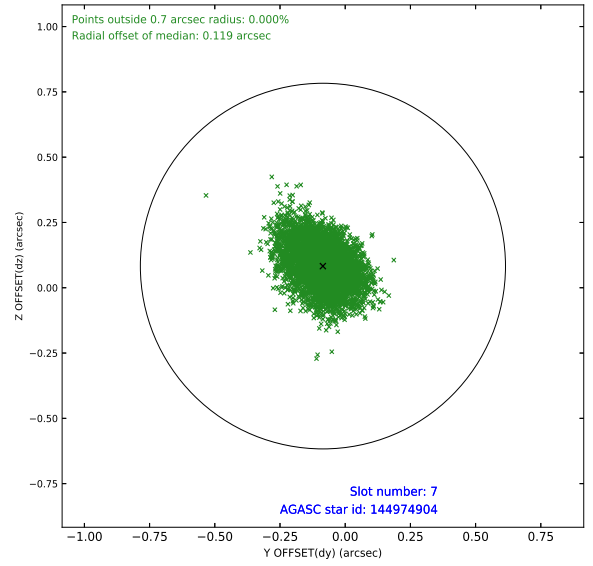
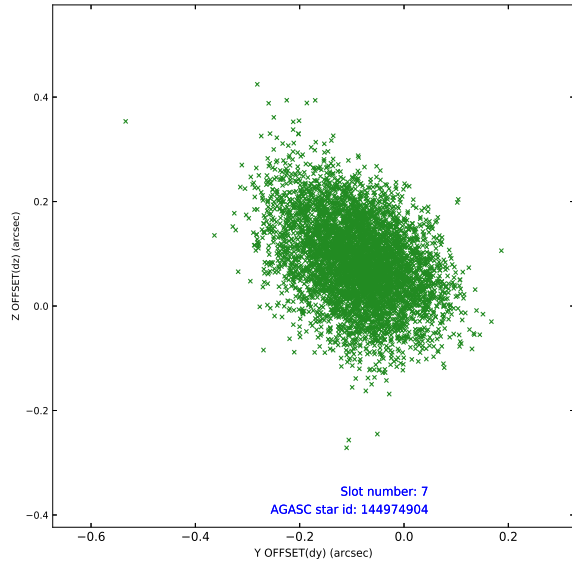
2.4.4 Slot 6



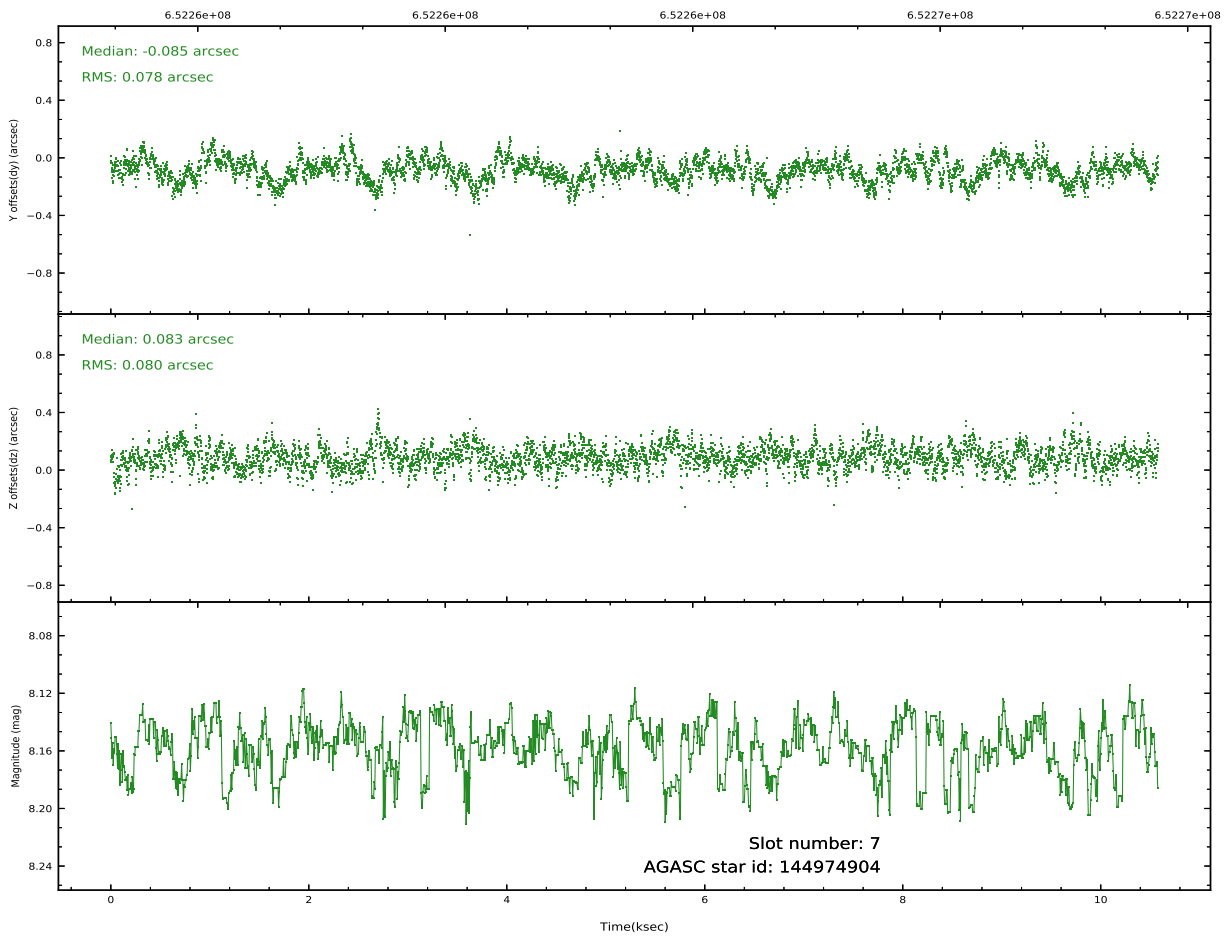
Time (s)



2.4.5 Slot 7

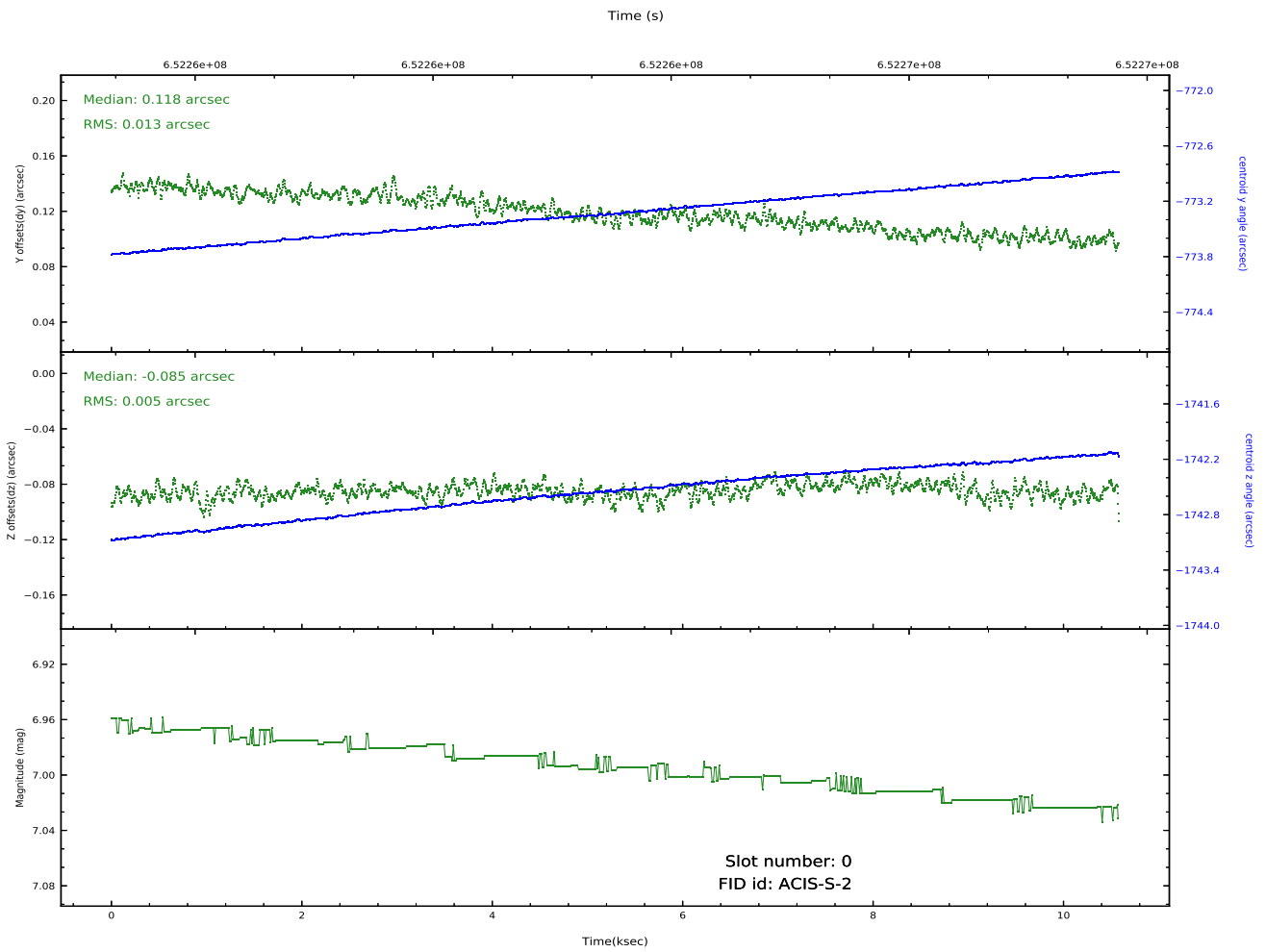
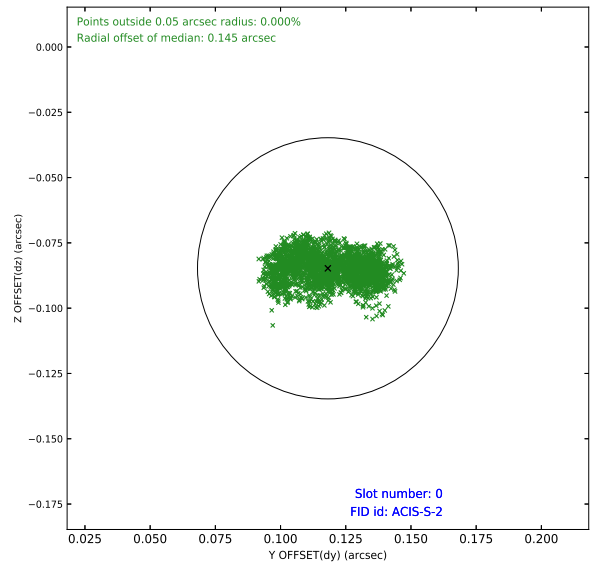
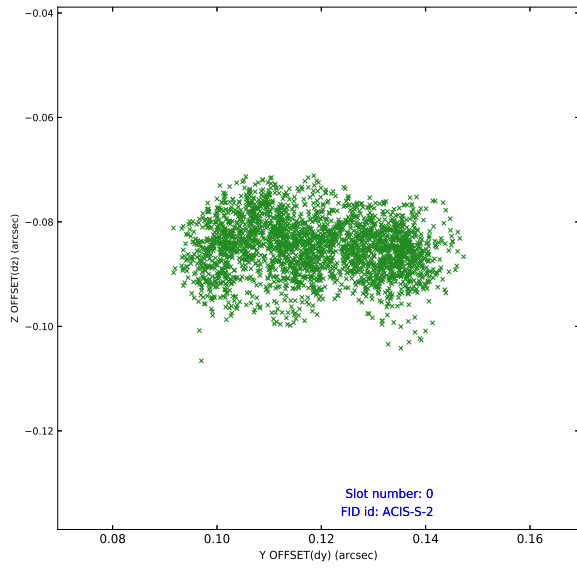


Time (s)

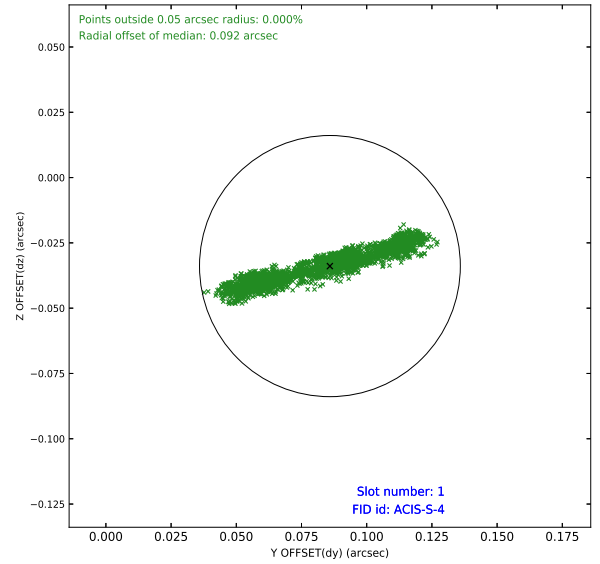
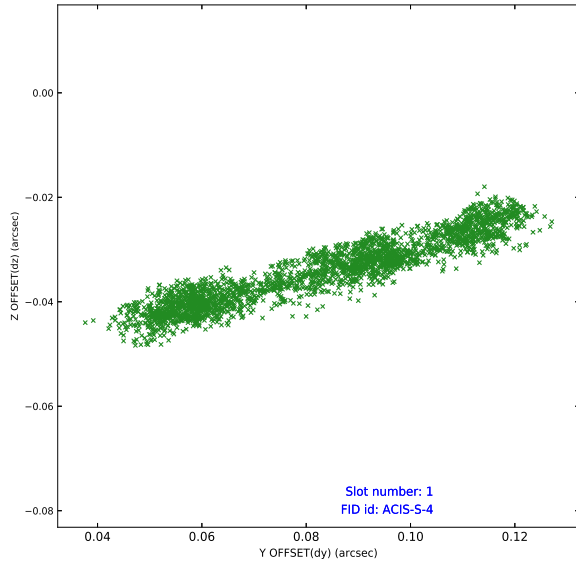


2.5 FID Slots

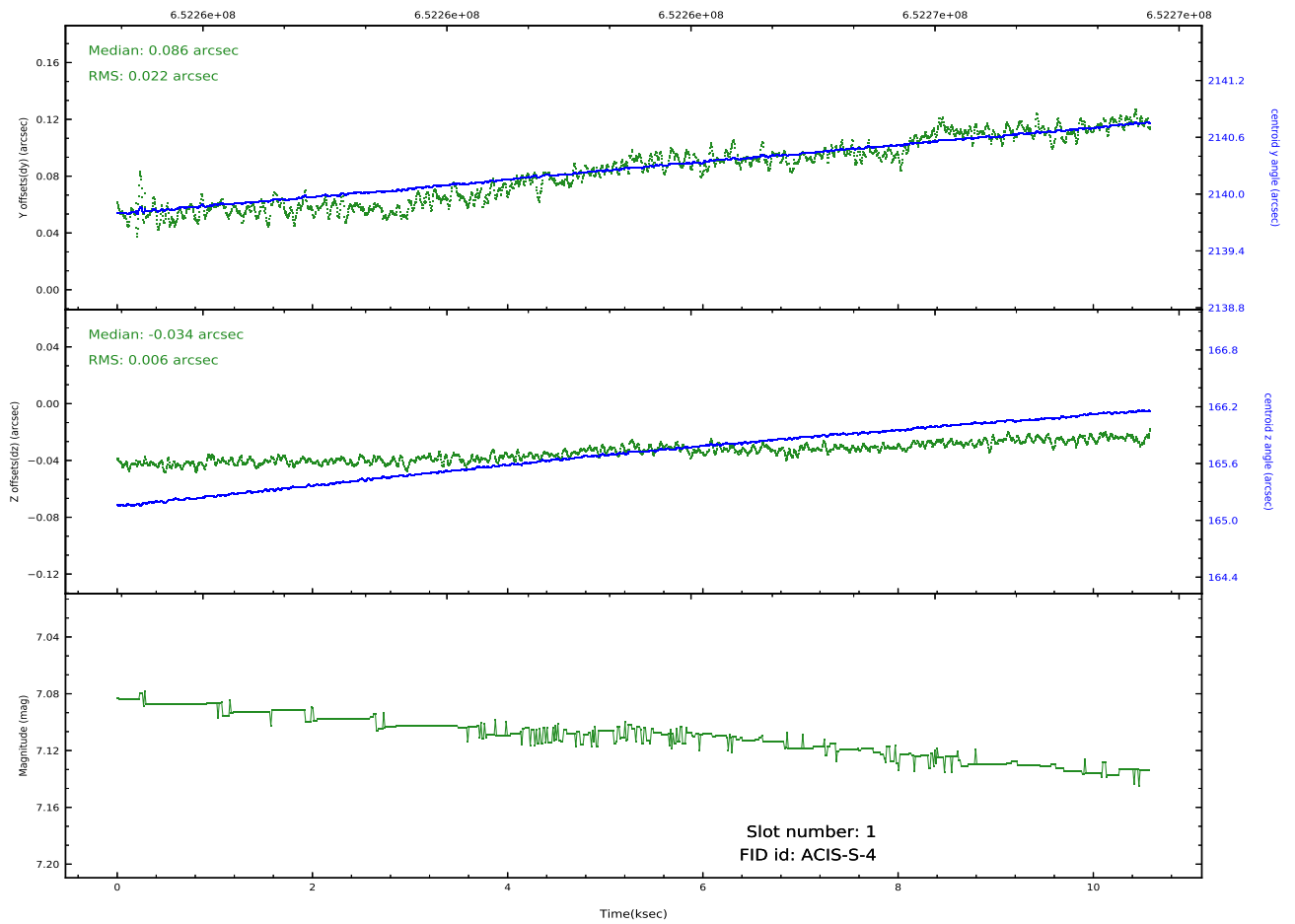
2.5.1 Slot 0



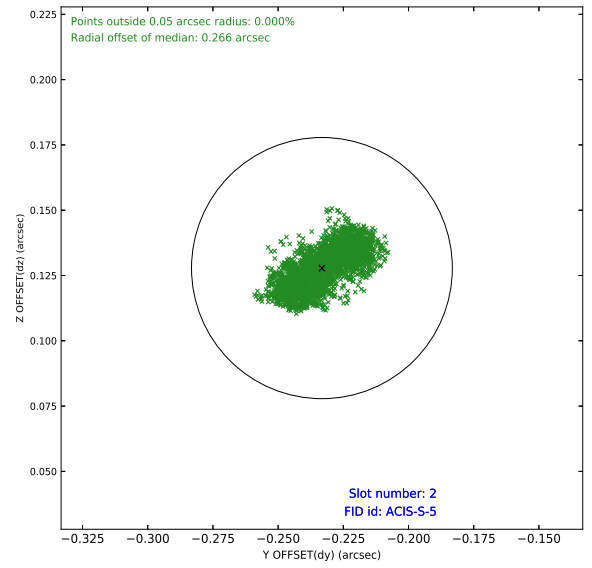
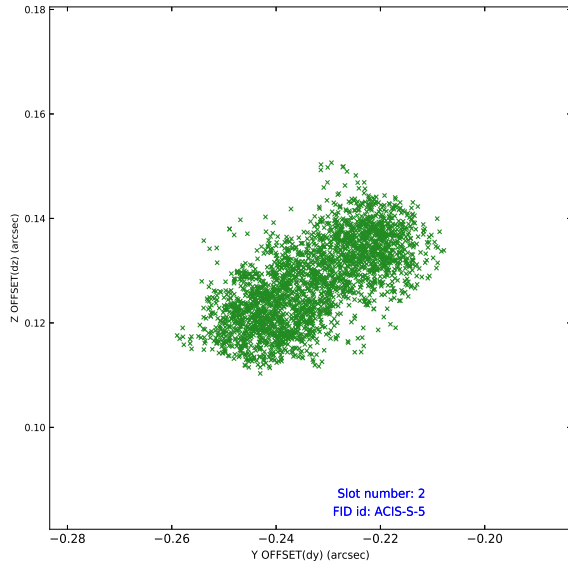
2.5.2 Slot 1



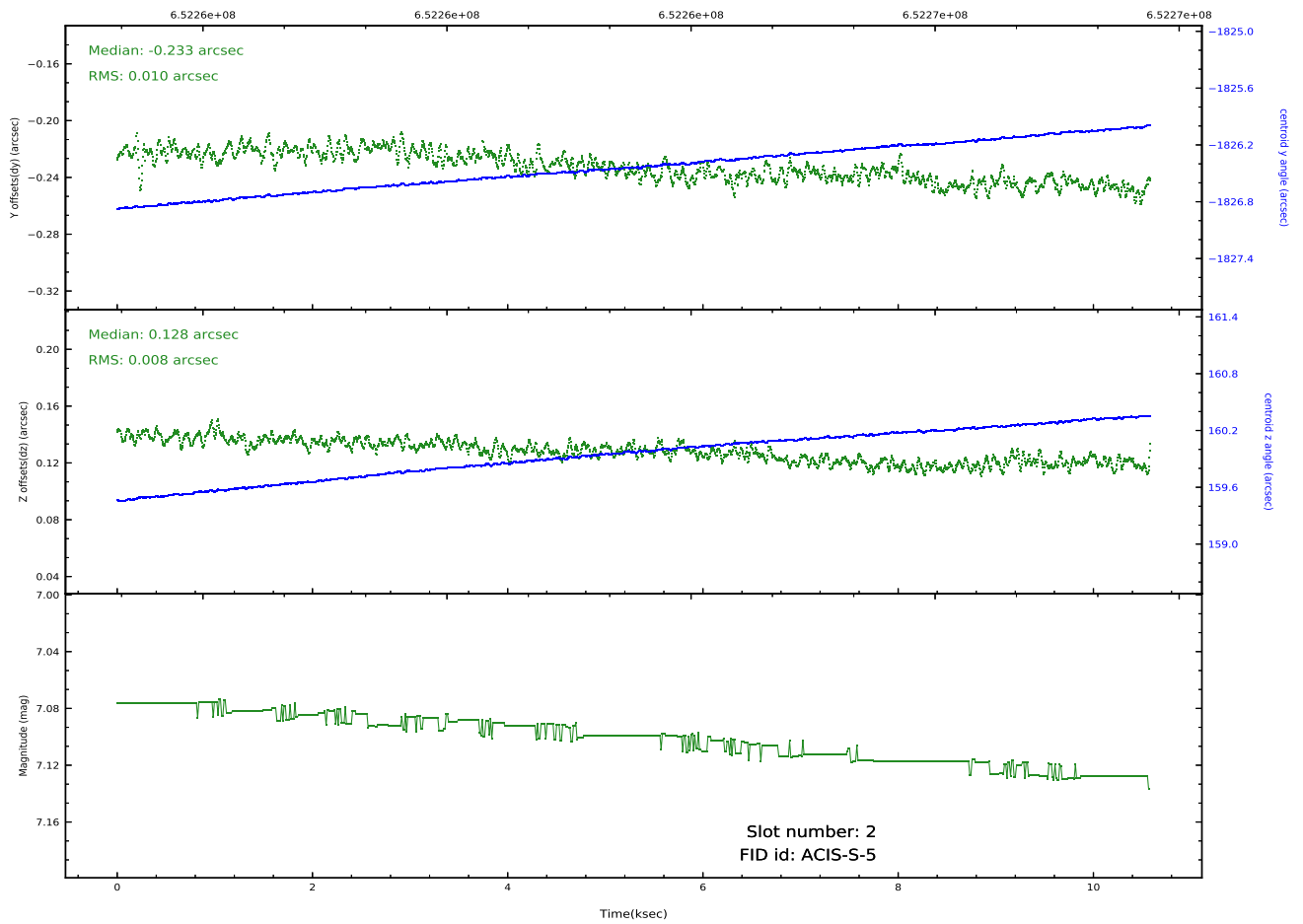
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.45010008049

A.2 Comments