

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6353 - L2 Version 4
Chandra X-Ray Center

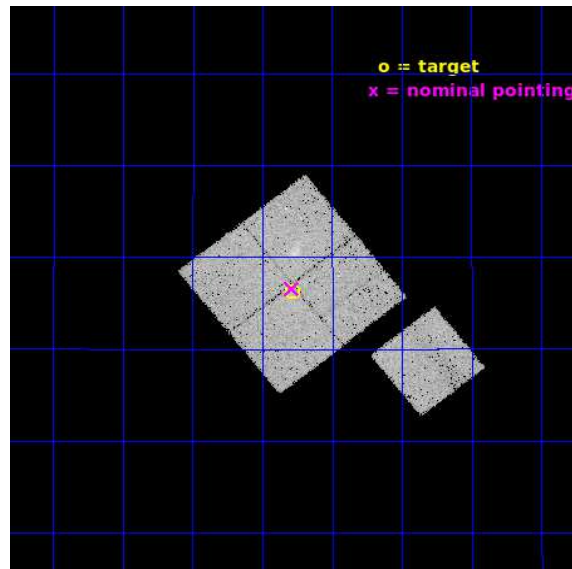
L2 Processing Date : Oct 9 2020

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

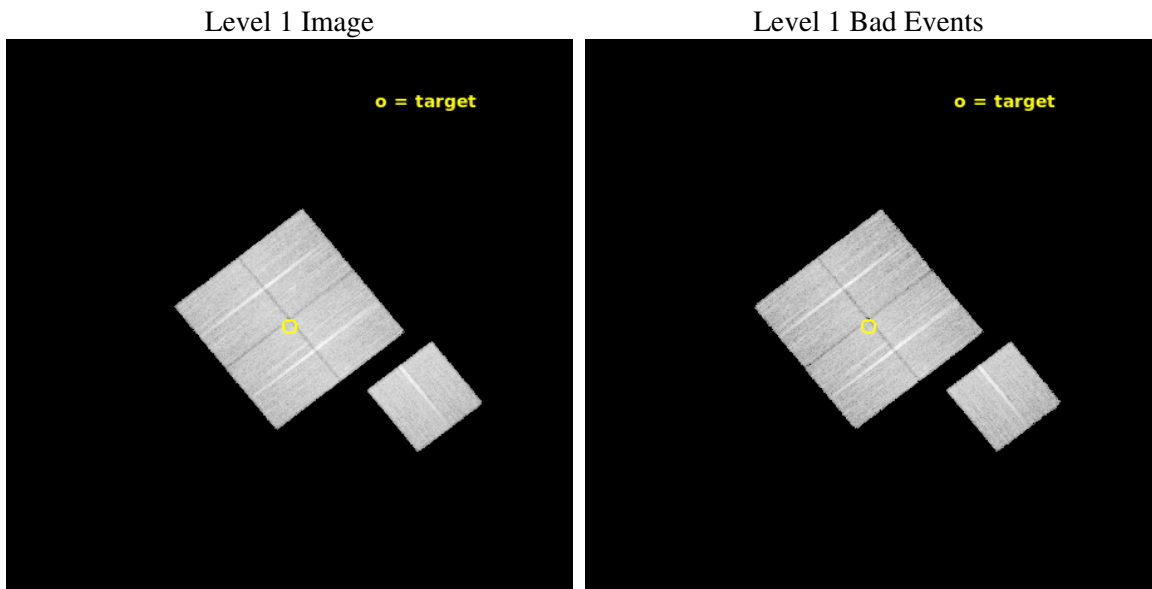
seq_num	701058	Sequence number
obs_id	6353	Observation id
title	A Chandra Study of Two Nearby, Powerful Radio Galaxies in Poor Environments	Proposal title
observer	Ralph Kraft	Principal investigator
object	3C 442A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	333.695833	Observer's specified target RA [deg]
dec_targ	13.77111	Observer's specified target Dec [deg]
ra_nom	333.69703980796	Nominal RA [deg]
dec_nom	13.776187963764	Nominal Dec [deg]
roll_nom	141.5041932085	Nominal Roll [deg]
revision	4	Processing version of data
ontime	14170.058972567	Sum of GTIs [s]
livetime	13984.916720245	Livetime [s]
ontime0	14170.058982462	Sum of GTIs [s]
ontime1	14170.058962524	Sum of GTIs [s]
ontime2	14166.917992204	Sum of GTIs [s]
ontime3	14170.058972567	Sum of GTIs [s]
ontime6	14170.058982491	Sum of GTIs [s]
l2events	90248	Number of level 2 events



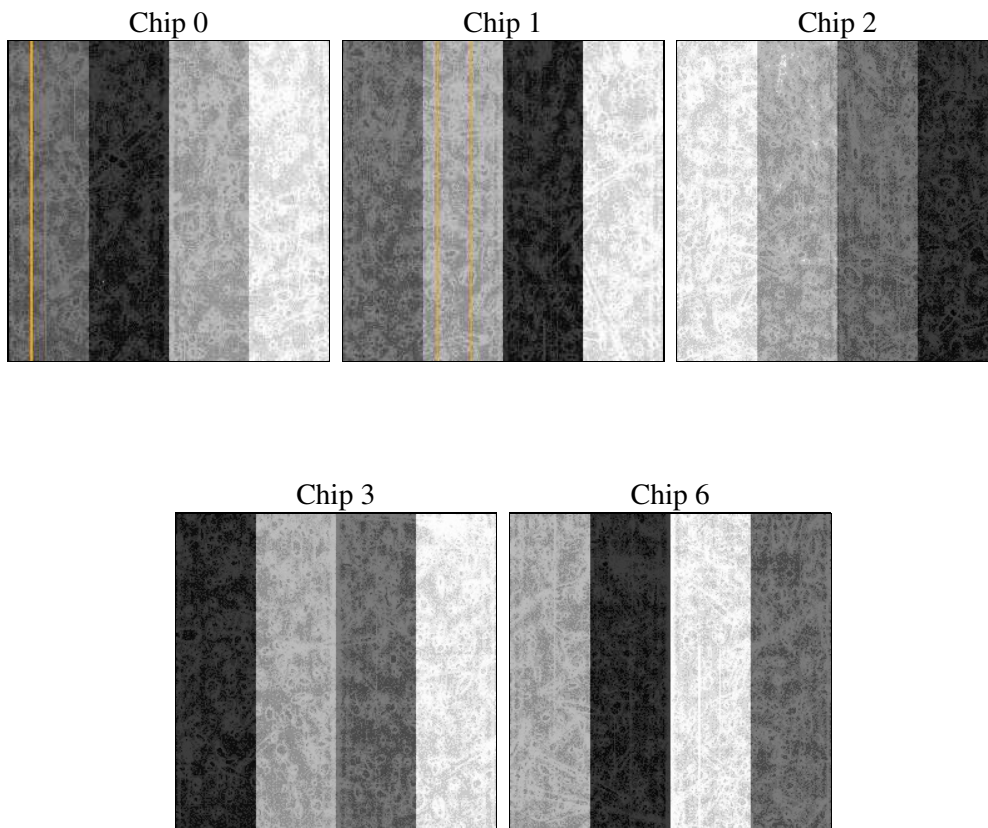
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	14170.058972567	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	14170.058982462	Sum of GTIs [s]
date	2020-10-09T14:12:20	Date and time of file creation	ontime1	14170.058962524	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	14166.917992204	Sum of GTIs [s]
			ontime3	14170.058972567	Sum of GTIs [s]
			ontime6	14170.058982491	Sum of GTIs [s]
			l1events	662352	Number of level 1 events

2.1.4 Events

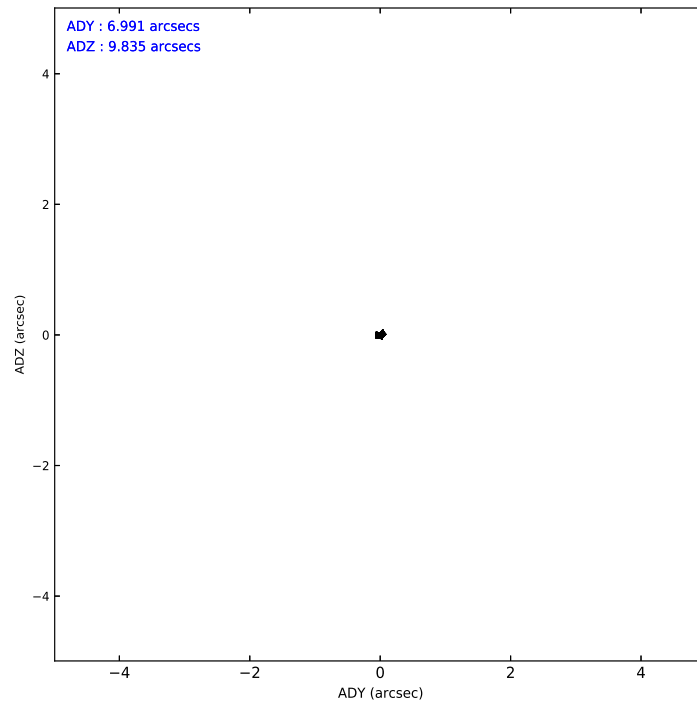
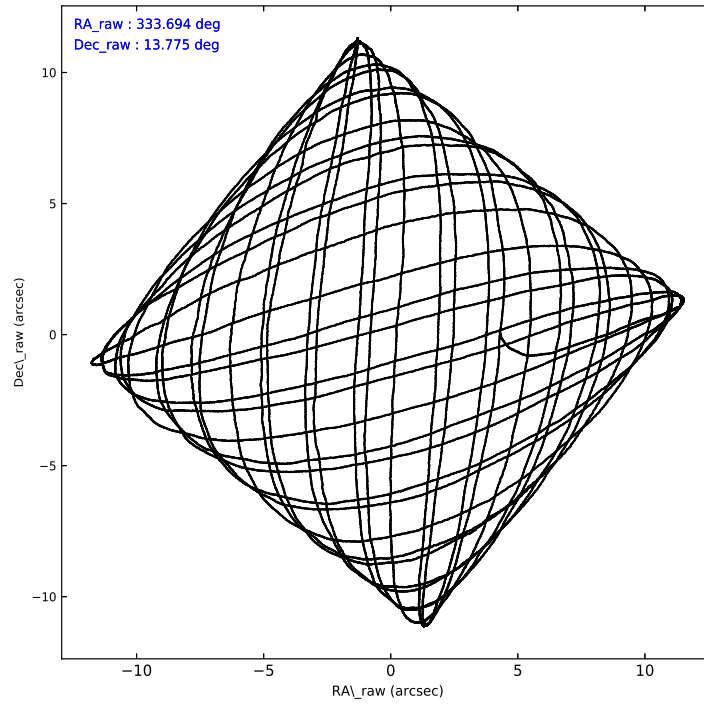
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	126402	125989	139972	133680	136309
rejected events	103666	104919	119252	114201	117160
rejected %	82%	83%	85%	85%	85%

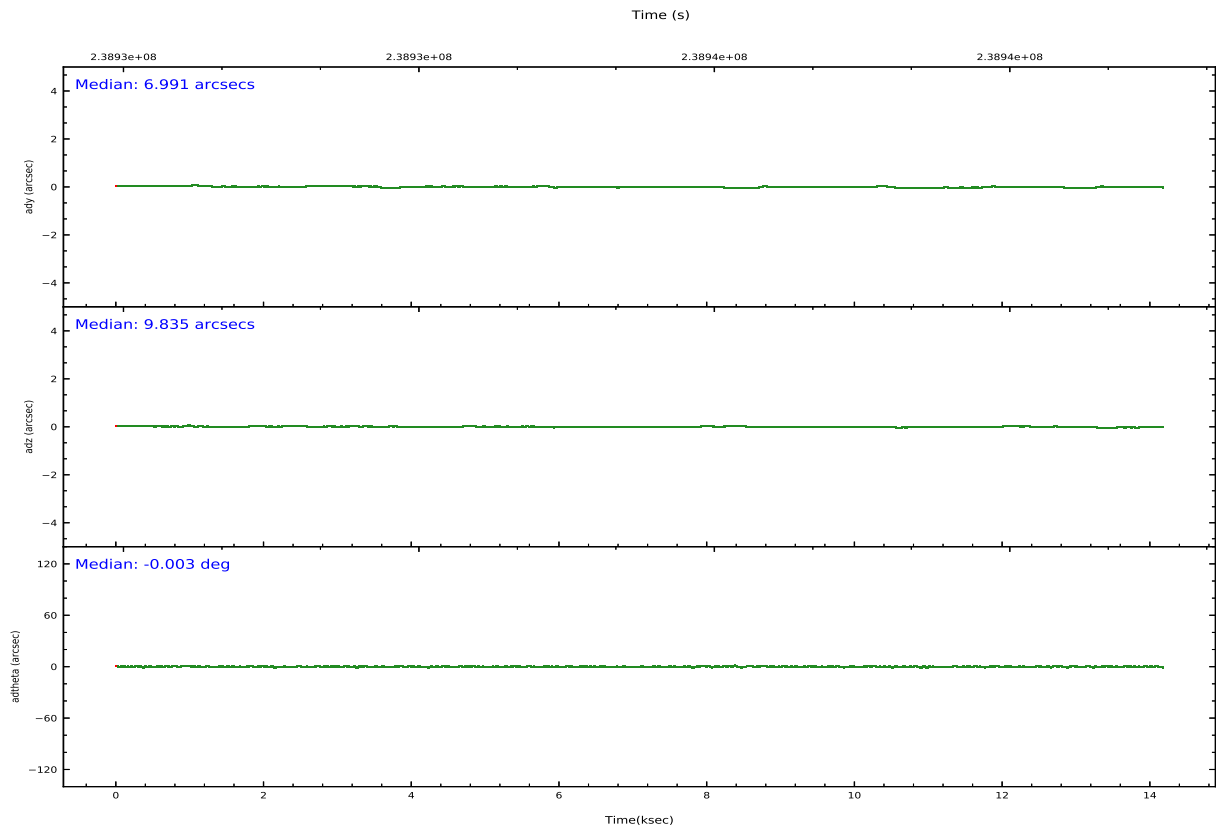
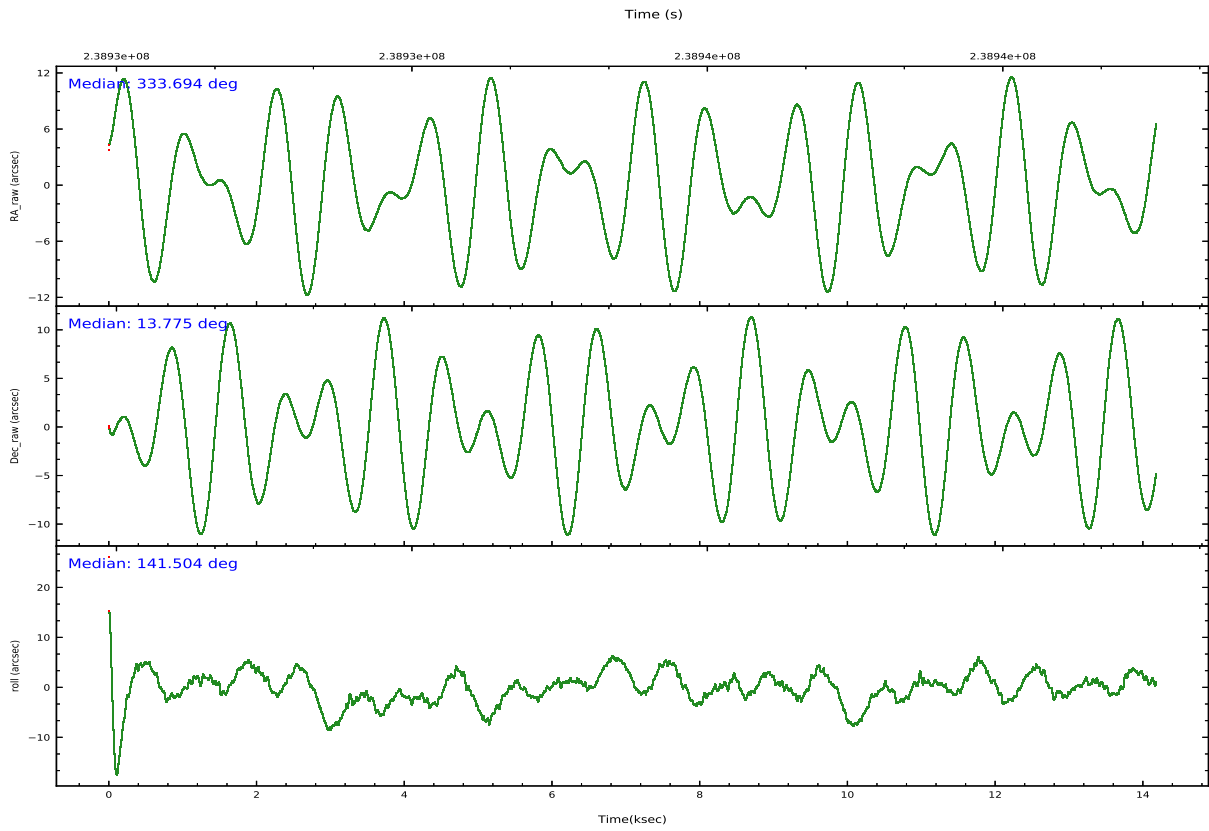
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	12731	10184	11416	10417	9138
	10%	8%	8%	7%	6%
grade 1 events	101	87	110	80	76
	0%	0%	0%	0%	0%
grade 2 events	4736	4862	4293	3827	4395
	3%	3%	3%	2%	3%
grade 3 events	1849	1829	1683	1715	1638
	1%	1%	1%	1%	1%
grade 4 events	1677	1827	1756	1724	1654
	1%	1%	1%	1%	1%
grade 5 events	5037	5402	4853	5726	5776
	3%	4%	3%	4%	4%
grade 6 events	3576	4102	3269	3548	4043
	2%	3%	2%	2%	2%
grade 7 events	96695	97696	112592	106643	109589
	76%	77%	80%	79%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	333.721449	333.69703980796	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.771246	13.776187963764	Alternating exposures requested	N	N
[deg] Pointing Roll	141.293904	141.5041932085	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	238928075.184000	238926468.99261			
Observation start date	2005-07-28T08:53:31	2005-07-28T08:27:48			
[s] Observation end time (MET)	238942075.184000	238942682.44335			
Observation end date	2005-07-28T12:46:51	2005-07-28T12:58:02			
Read mode	TIMED	TIMED			

2.3 Aspect





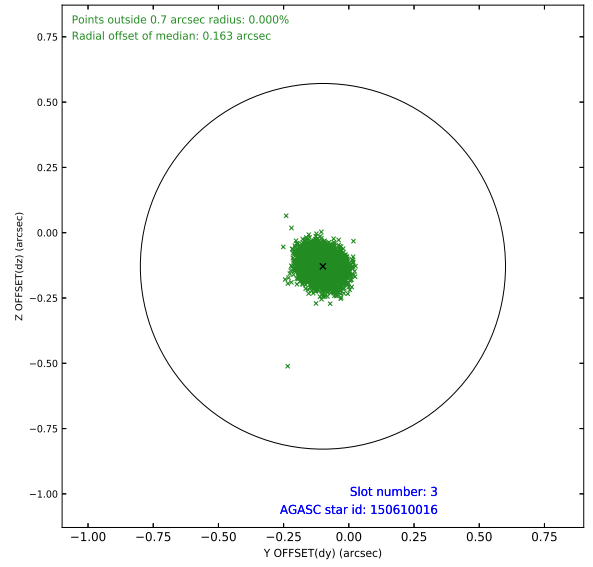
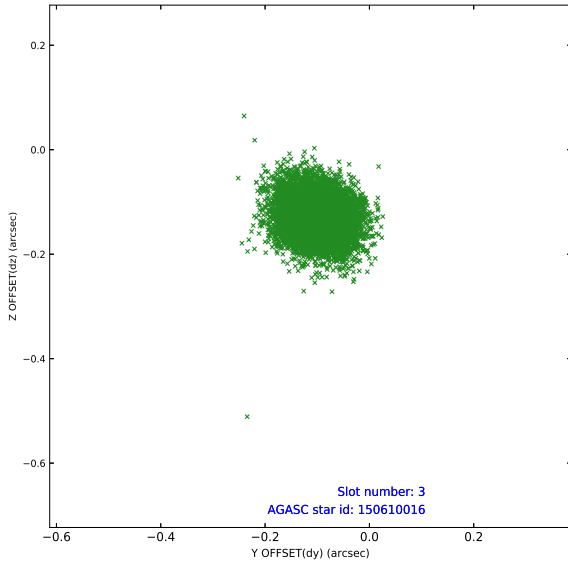
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	3459	1.000	0.014	-0.003	0.006	0.011	0.000000	0.000000	932.72	-833
1	FID		ACIS-I-5	7.23	3459	1.000	-0.200	0.020	0.006	0.010	0.000000	0.000000	-1815.45	1064
2	FID		ACIS-I-6	7.25	3459	1.000	0.094	0.054	0.006	0.011	0.000000	0.000000	397.95	1708
3	GUIDE	used	150610016	8.62	6917	1.000	-0.099	-0.129	0.058	0.093	333.607680	13.272180	-812.54	1651
4	GUIDE	used	150610304	6.76	6918	1.000	-0.022	0.073	0.043	0.069	334.517012	13.950326	-1763.12	-2244
5	GUIDE	used	150614840	8.68	6915	1.000	0.152	0.040	0.080	0.131	333.996804	13.803587	-677.91	-693
6	GUIDE	used	150606032	8.77	6886	1.000	-0.071	-0.086	0.066	0.108	333.468551	13.881130	937.42	243
7	GUIDE	used	150605048	8.31	6914	1.000	0.040	0.106	0.062	0.099	334.582600	13.956006	-1927.93	-2404

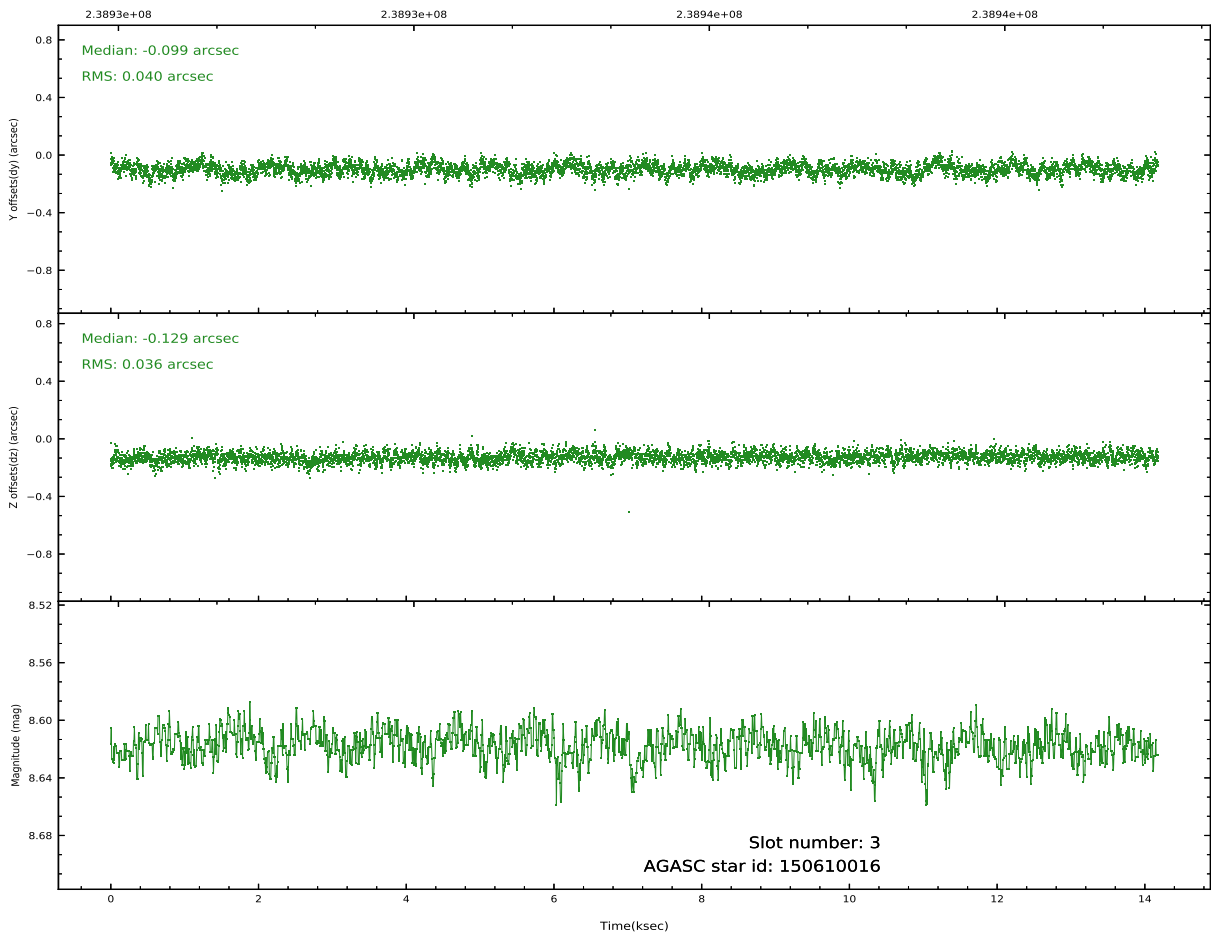
∞

2.4 Star Slots

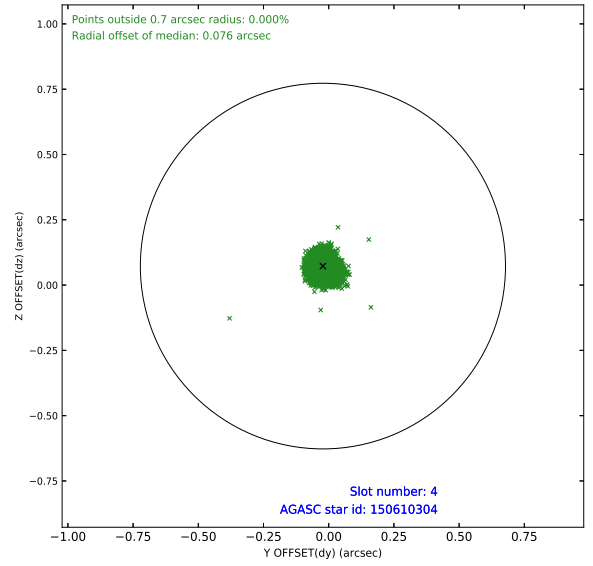
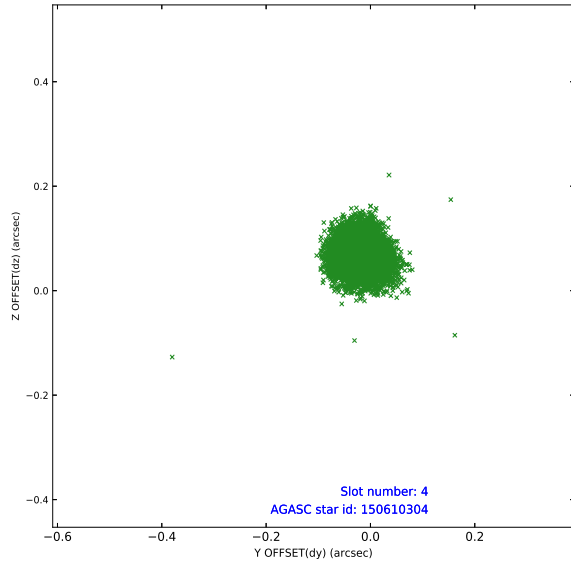
2.4.1 Slot 3



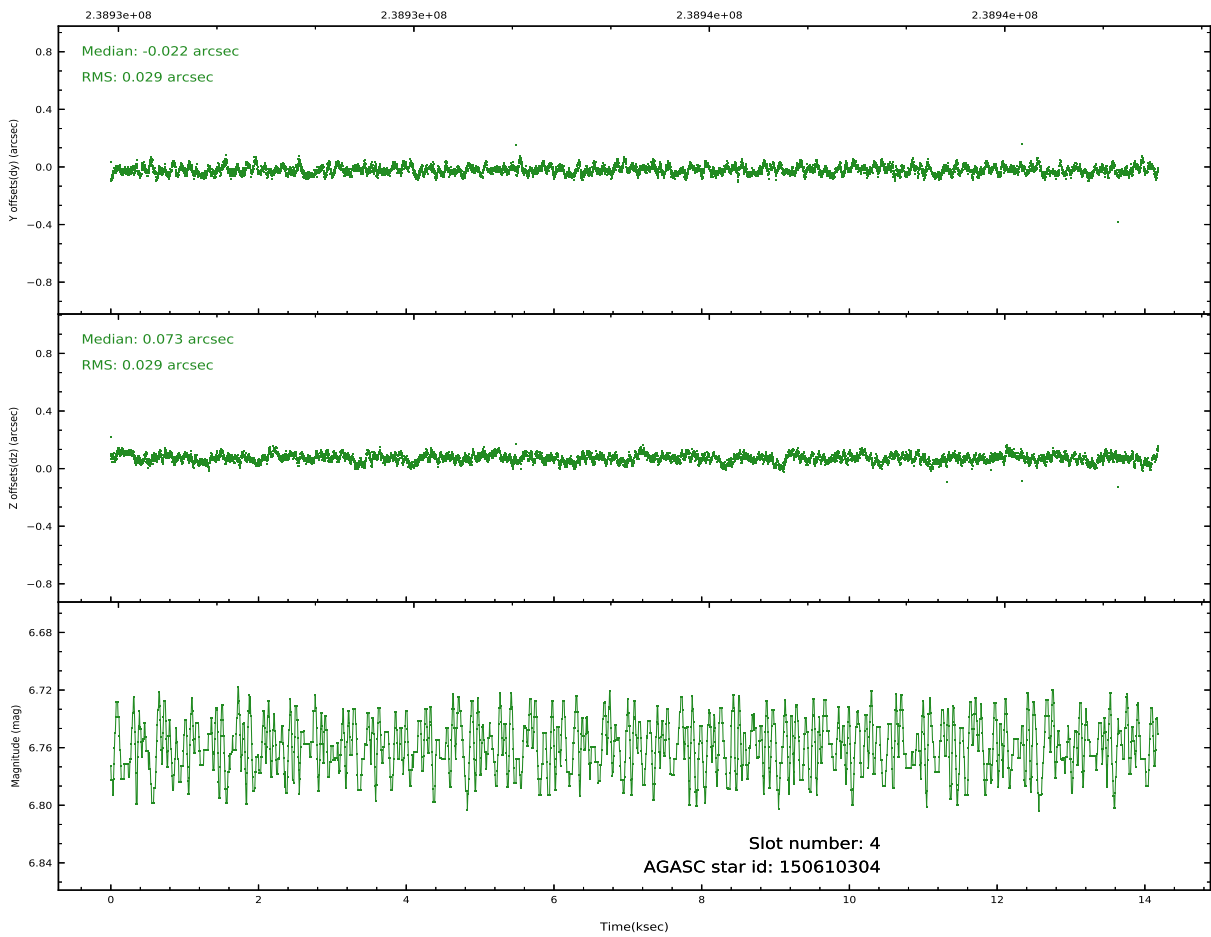
Time (s)



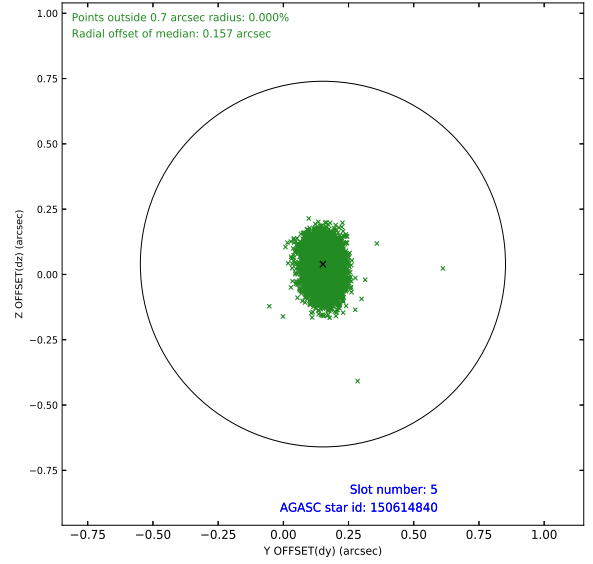
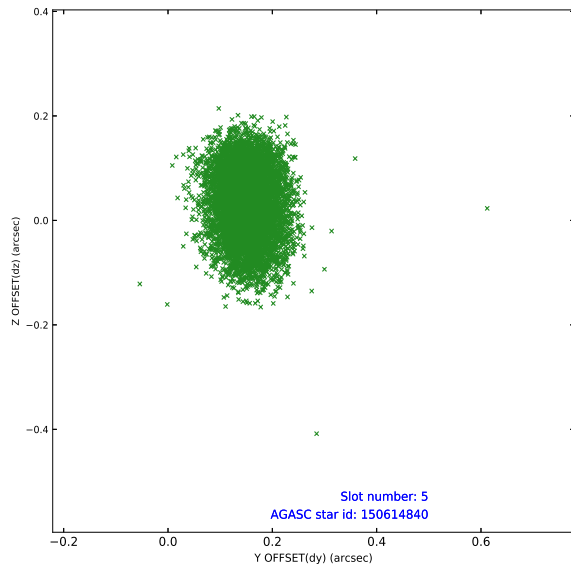
2.4.2 Slot 4



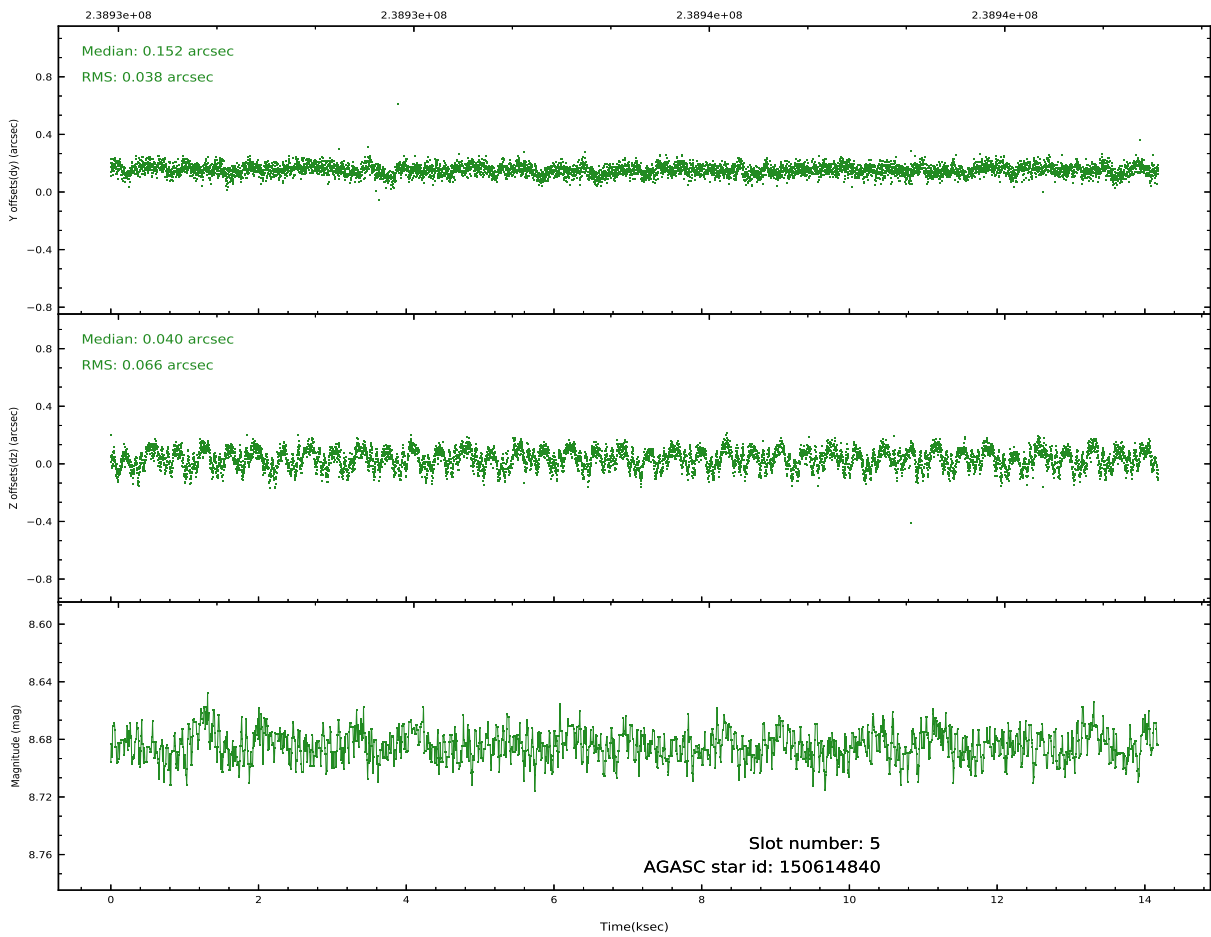
Time (s)



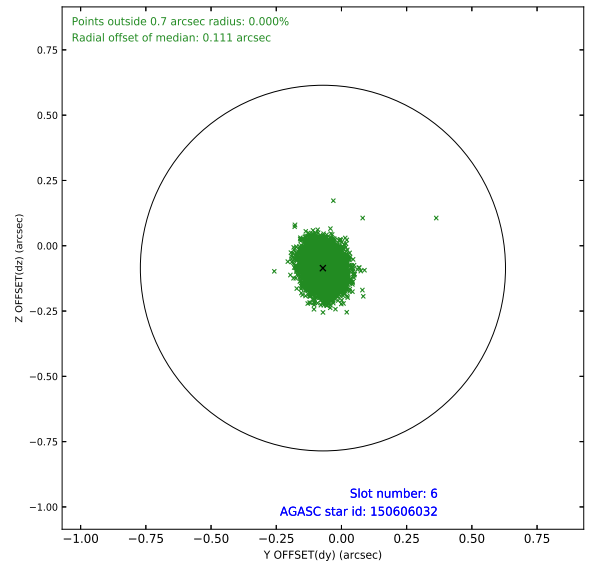
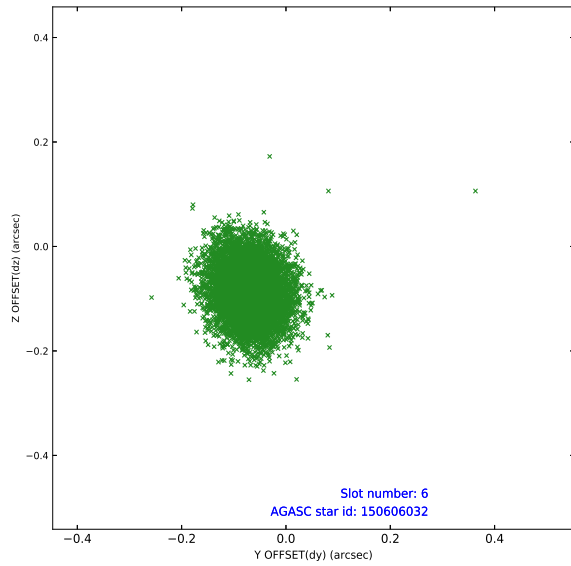
2.4.3 Slot 5



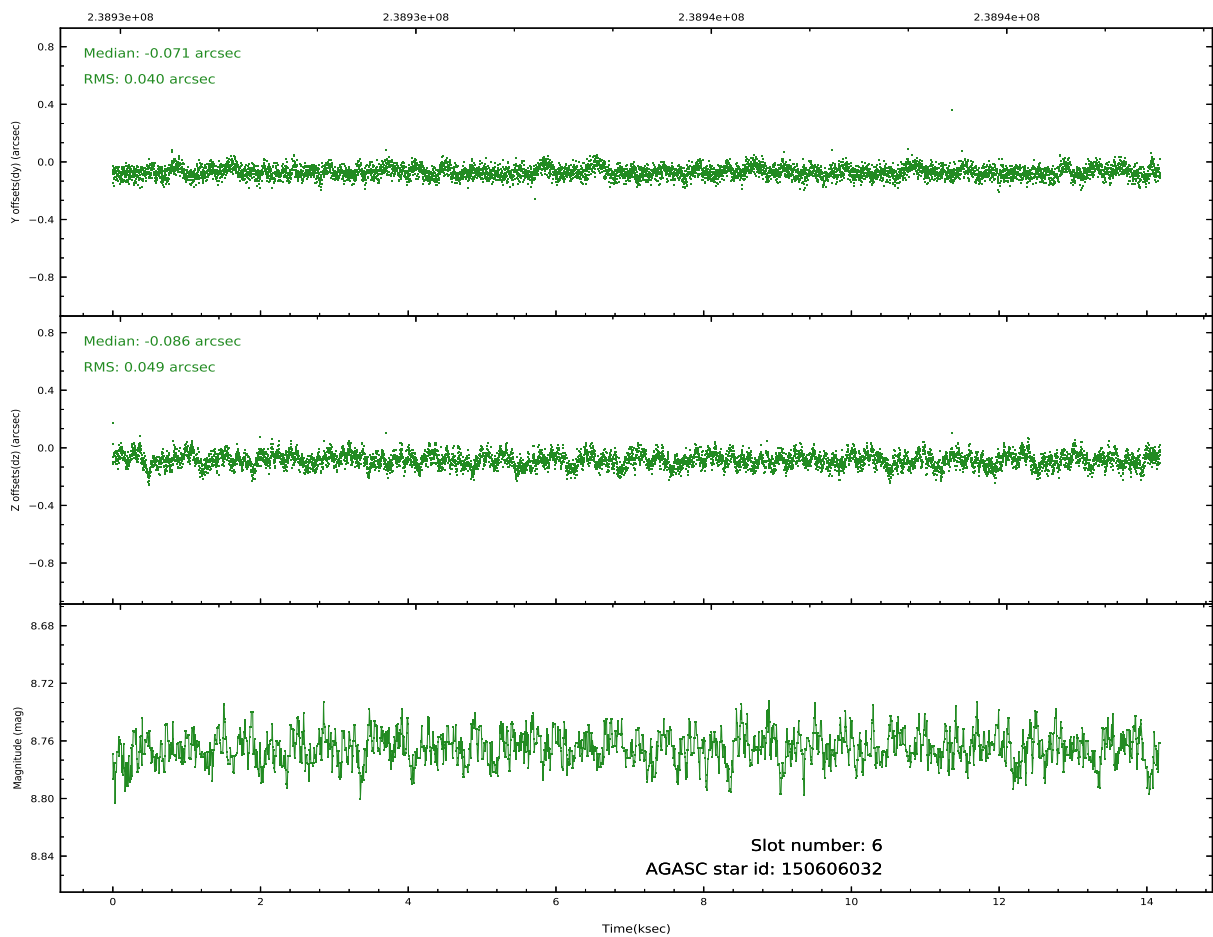
Time (s)



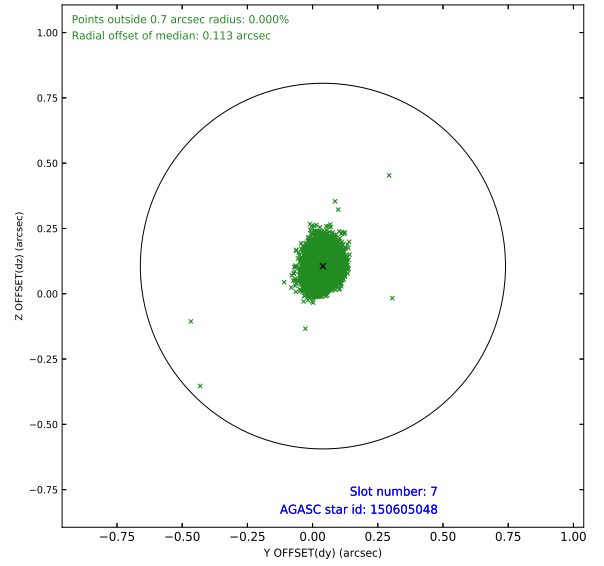
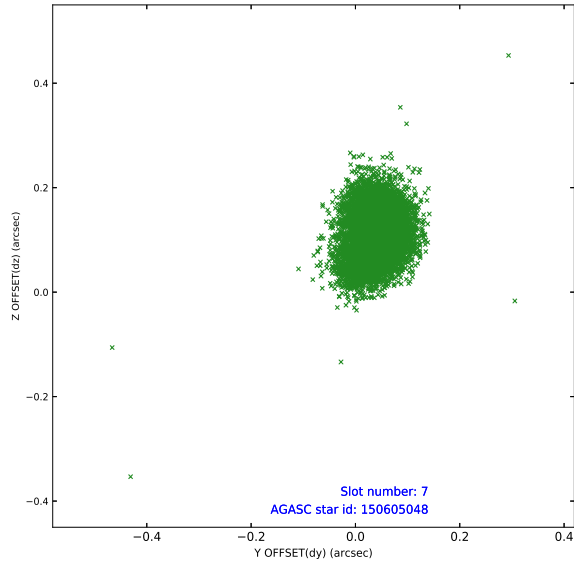
2.4.4 Slot 6



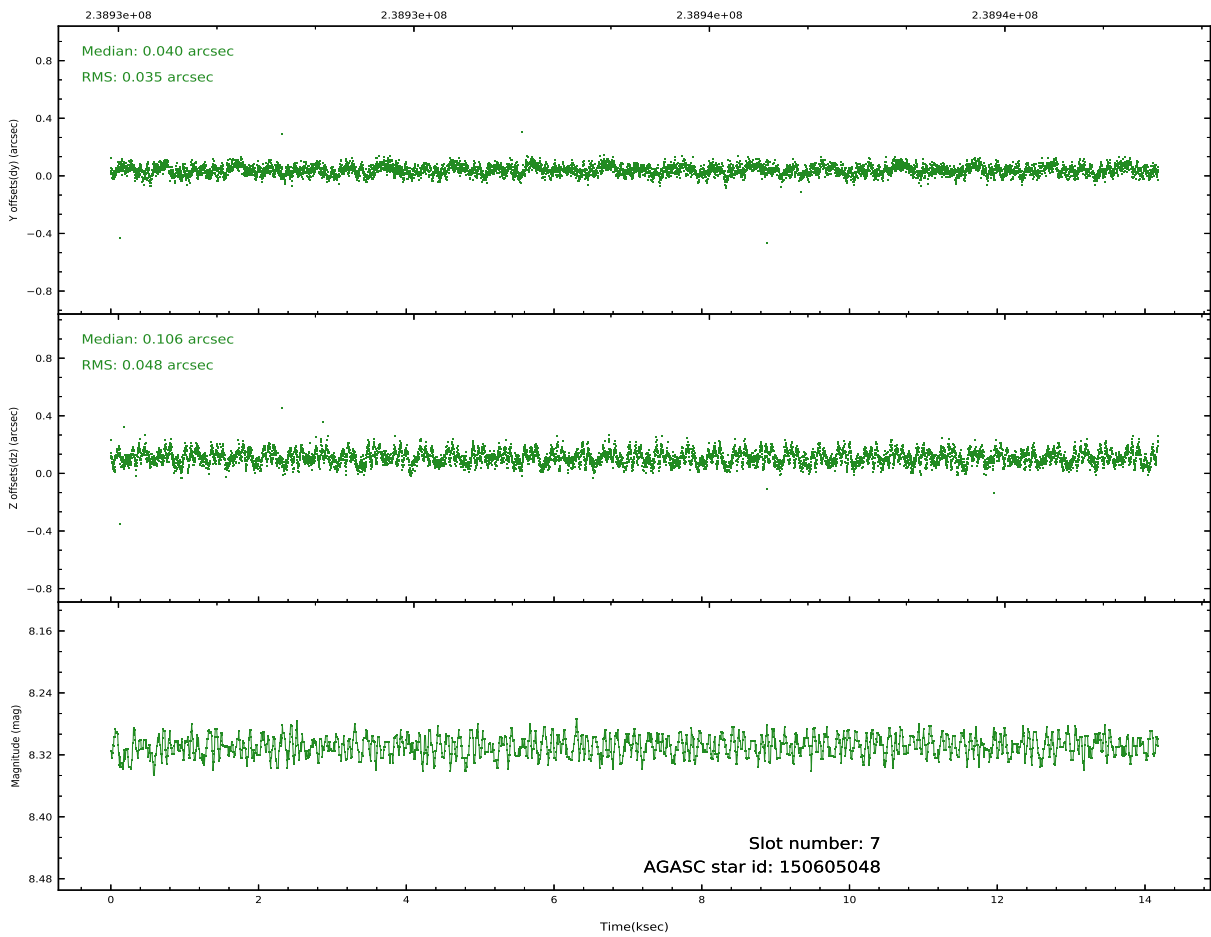
Time (s)



2.4.5 Slot 7

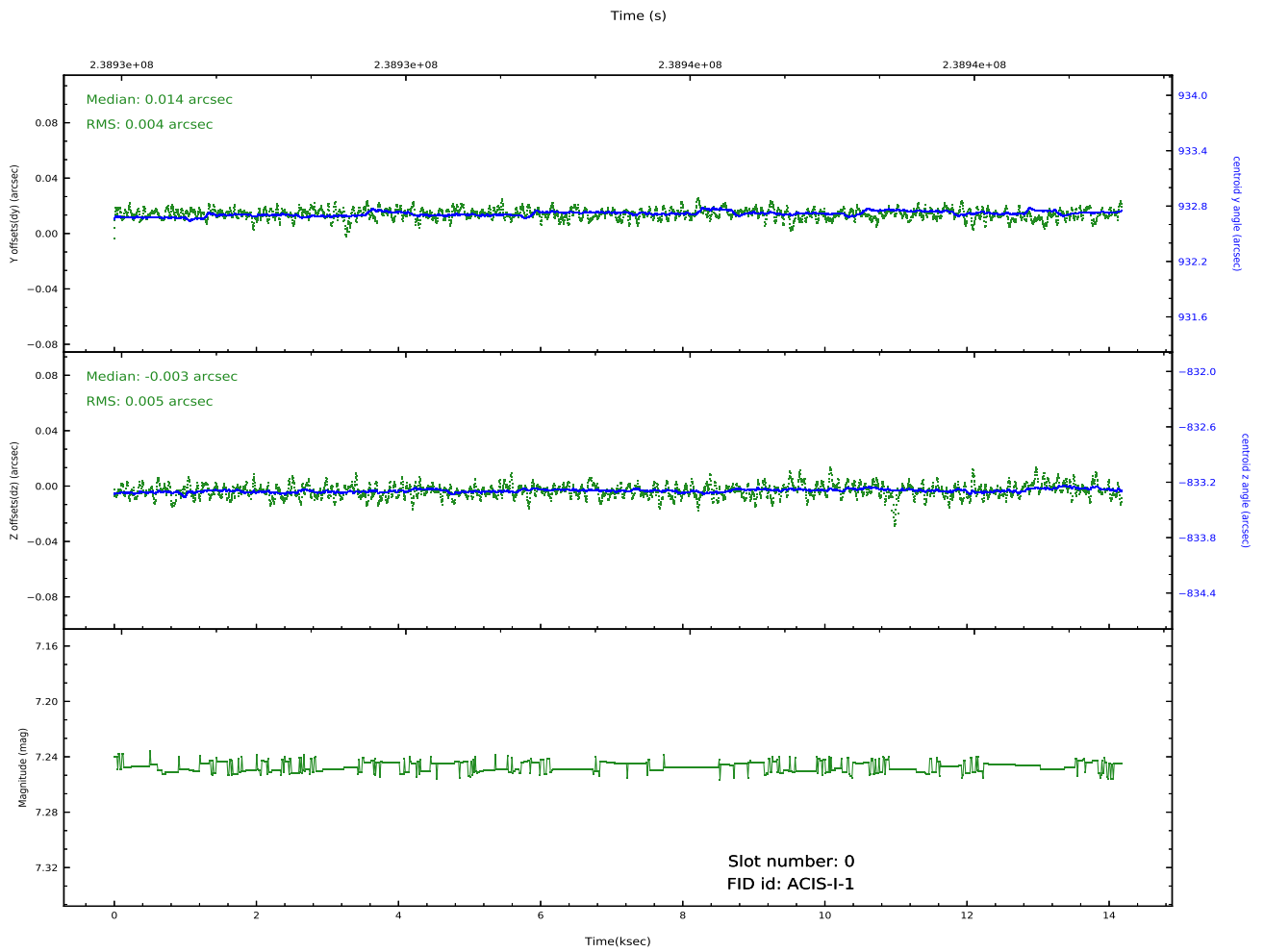
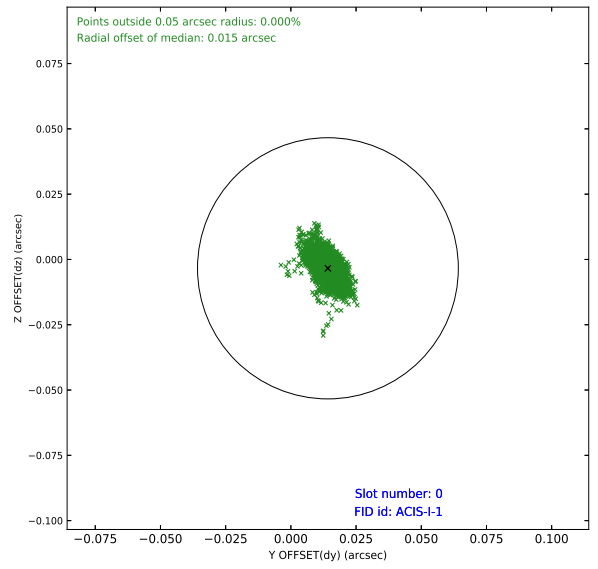
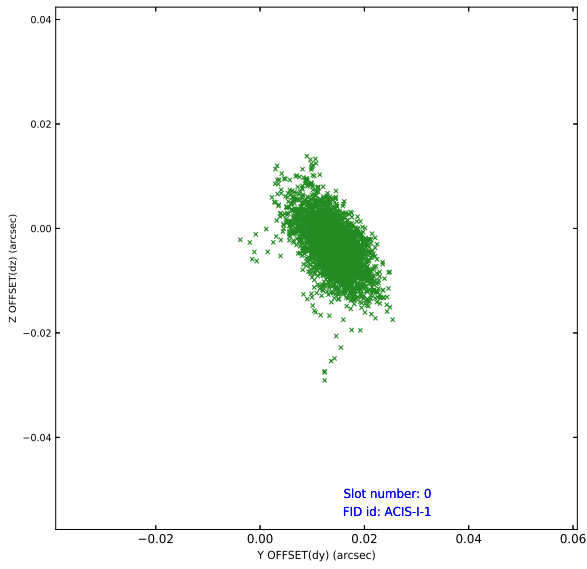


Time (s)

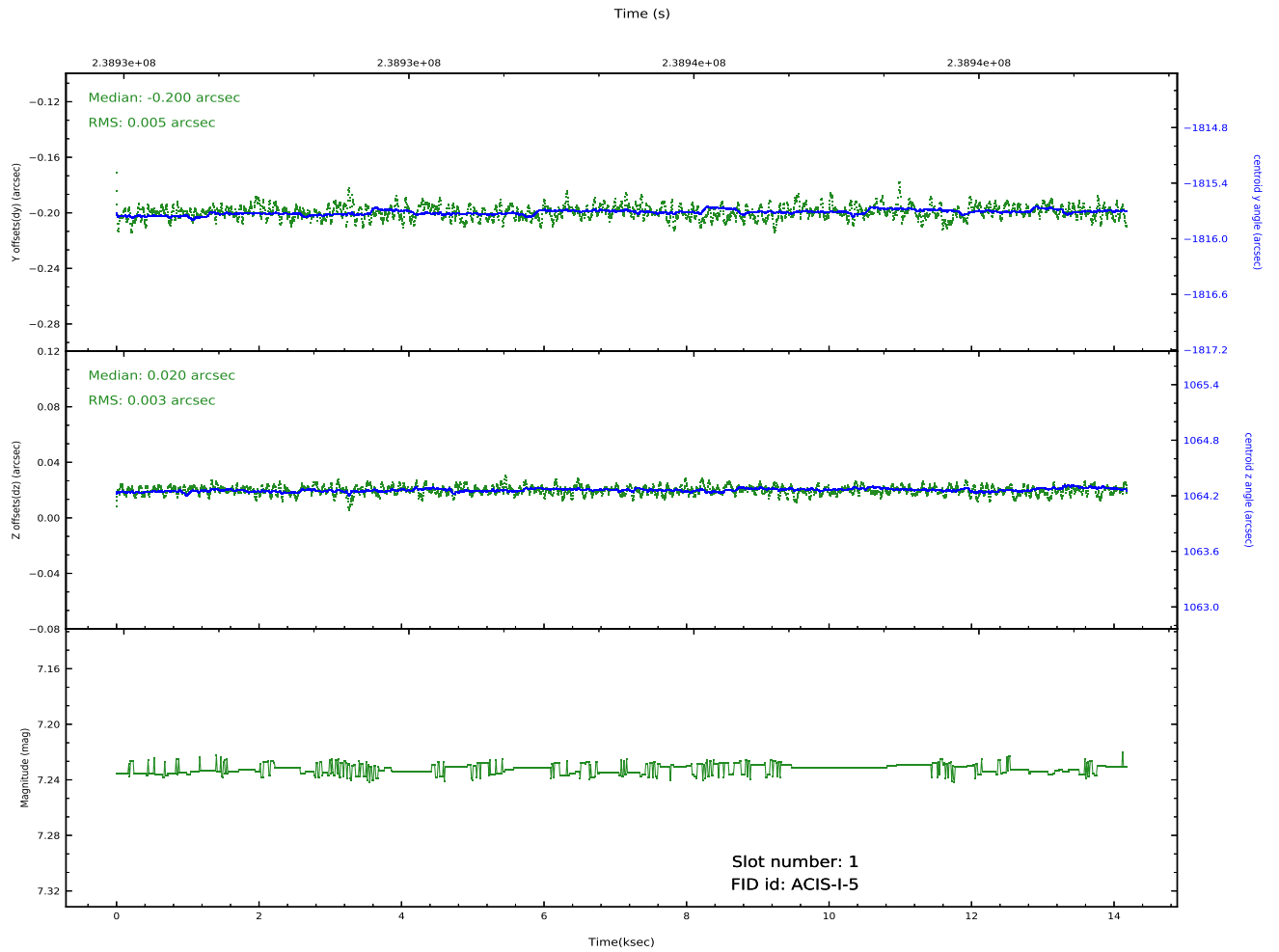
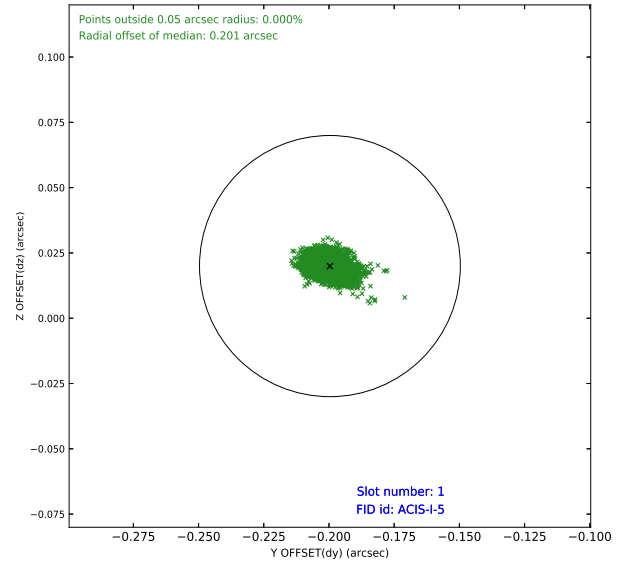
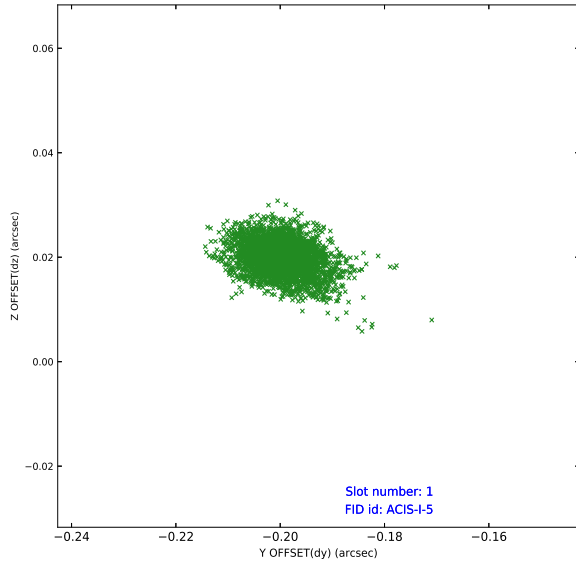


2.5 FID Slots

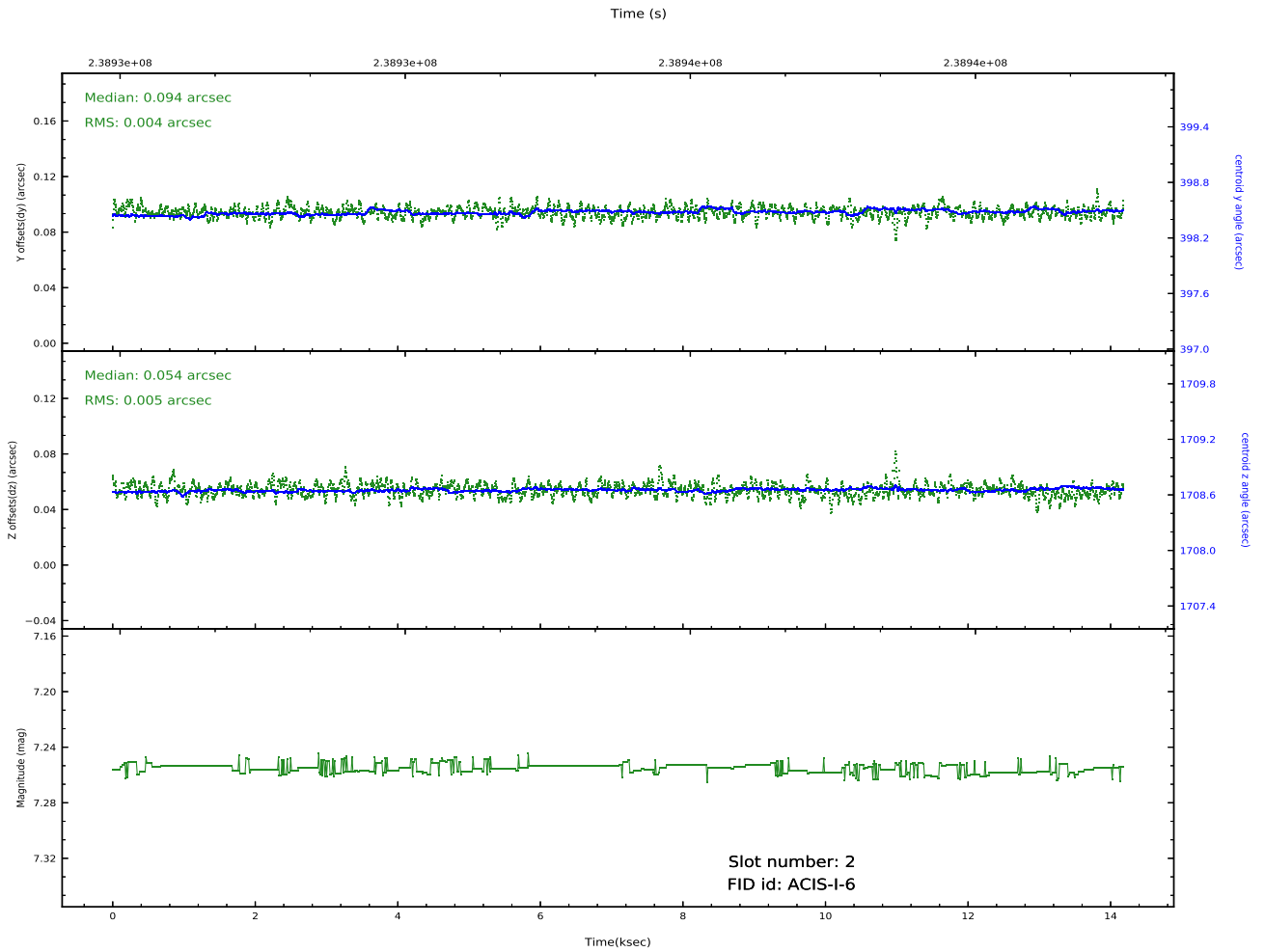
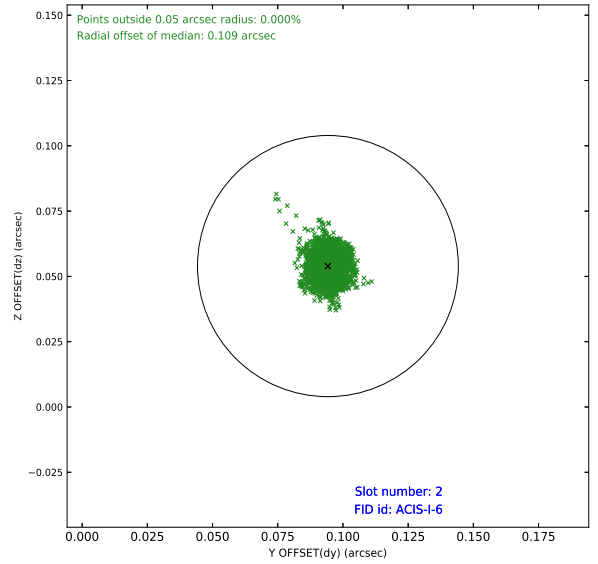
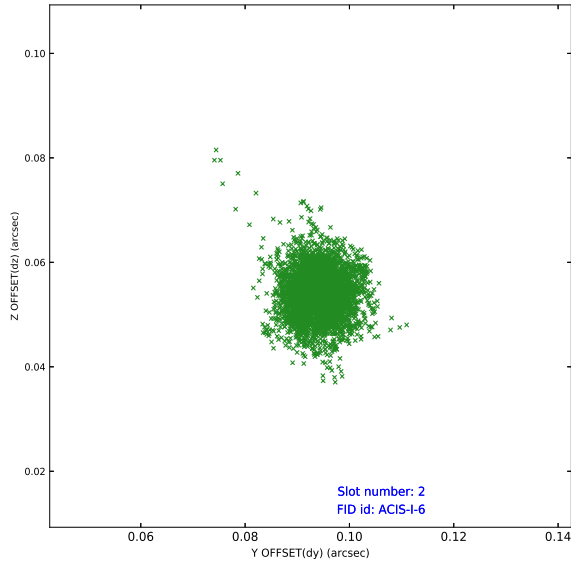
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.1700589

A.2 Comments