

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6136 - L2 Version 5
Chandra X-Ray Center

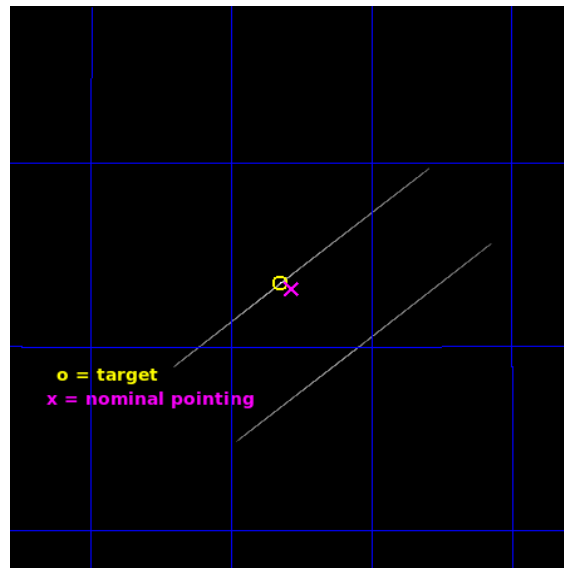
L2 Processing Date : Oct 8 2020

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1 Front

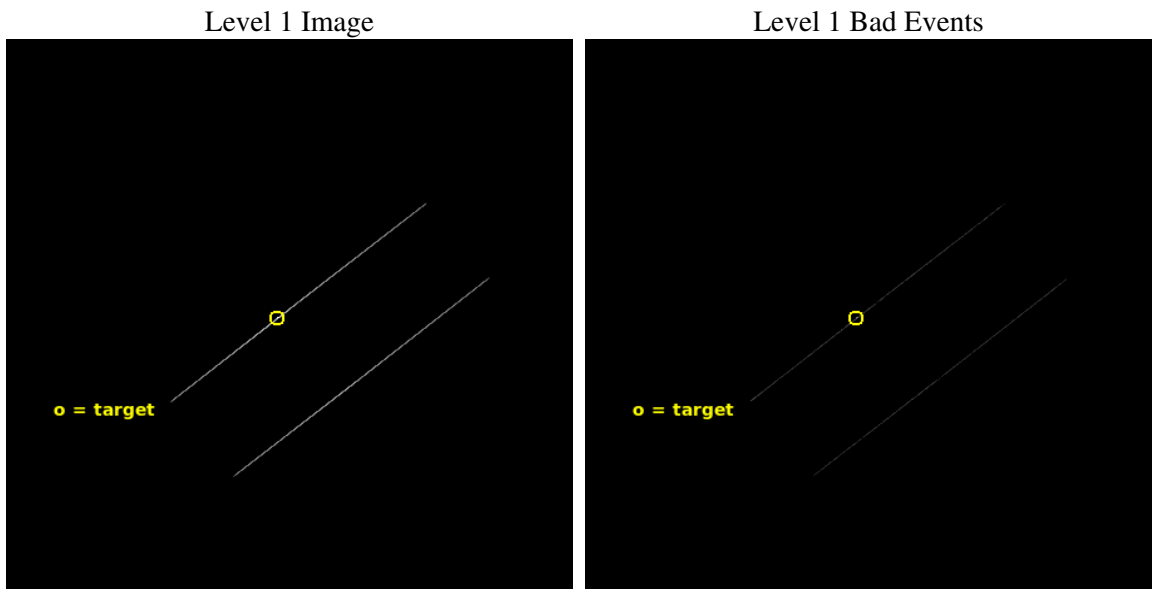
seq_num	800539	Sequence number
obs_id	6136	Observation id
title	The History of AGN Activity in M87 and the Interaction of Nuclear Outbursts with the Surrounding Atmosphere	Proposal title
observer	William Forman	Principal investigator
object	M87	Source name
ra_targ	187.70625	Observer's specified target RA [deg]
dec_targ	12.391111	Observer's specified target Dec [deg]
ra_nom	187.6957951492	Nominal RA [deg]
dec_nom	12.385881709117	Nominal Dec [deg]
roll_nom	231.01744676827	Nominal Roll [deg]
revision	5	Processing version of data
ontime	3976.5	Sum of GTIs [s]
livetime	3960.966796875	Livetime [s]
ontime0	3976.5	Sum of GTIs [s]
ontime1	3976.5	Sum of GTIs [s]
ontime2	3976.5	Sum of GTIs [s]
ontime3	3976.5	Sum of GTIs [s]
l2events	173307	Number of level 2 events



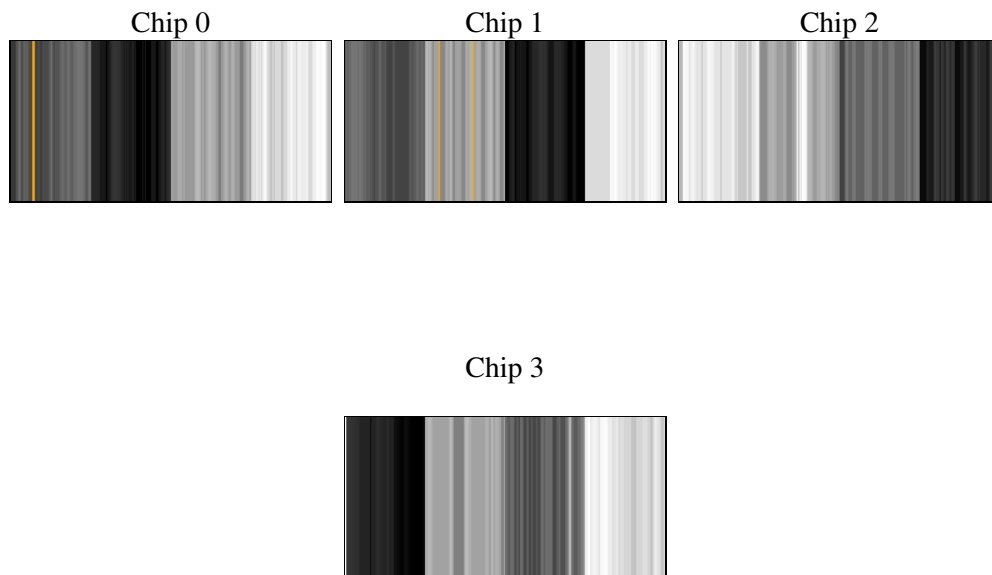
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3828.052000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3976.5	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	3976.5	Sum of GTIs [s]
date	2020-10-08T07:08:26	Date and time of file creation	ontime1	3976.5	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	3976.5	Sum of GTIs [s]
			ontime3	3976.5	Sum of GTIs [s]
			l1events	187169	Number of level 1 events

2.1.4 Events

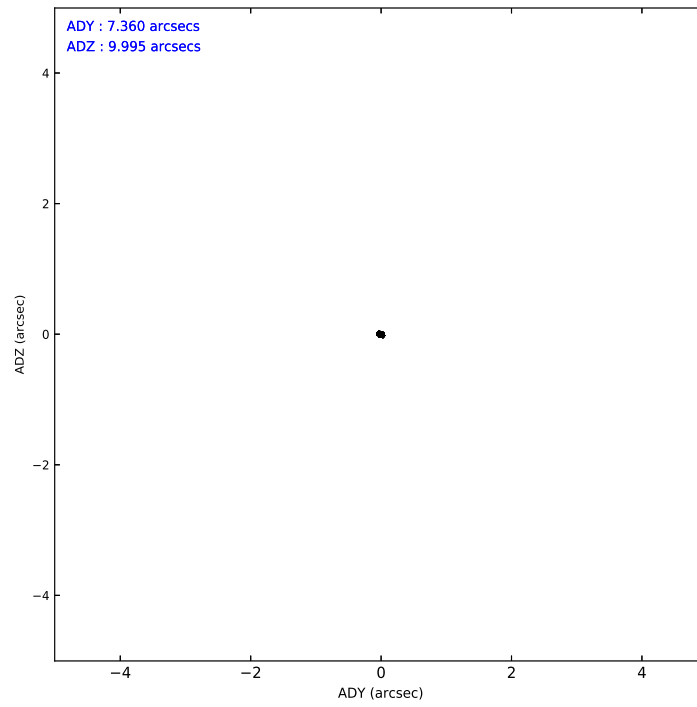
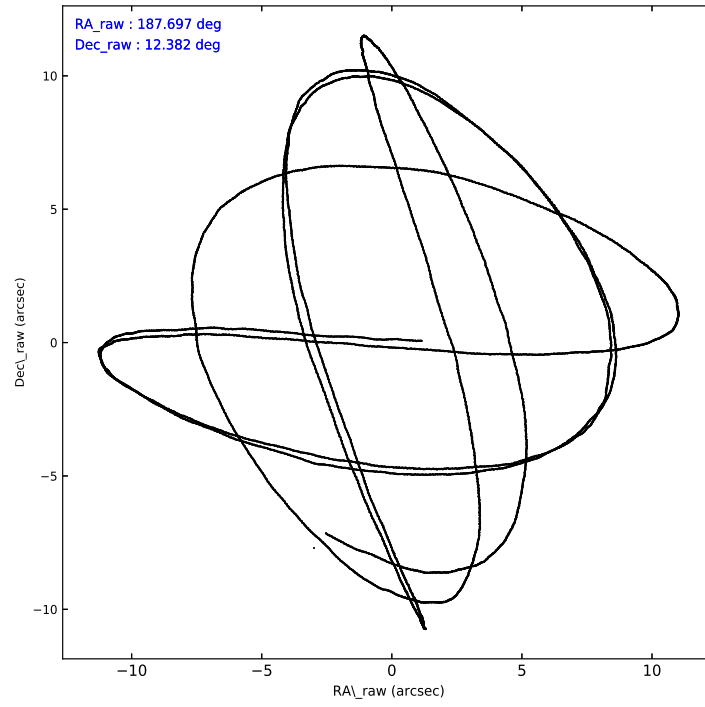
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	23572	30953	39277	93367
rejected events	1076	1188	1084	1689
rejected %	4%	3%	2%	1%

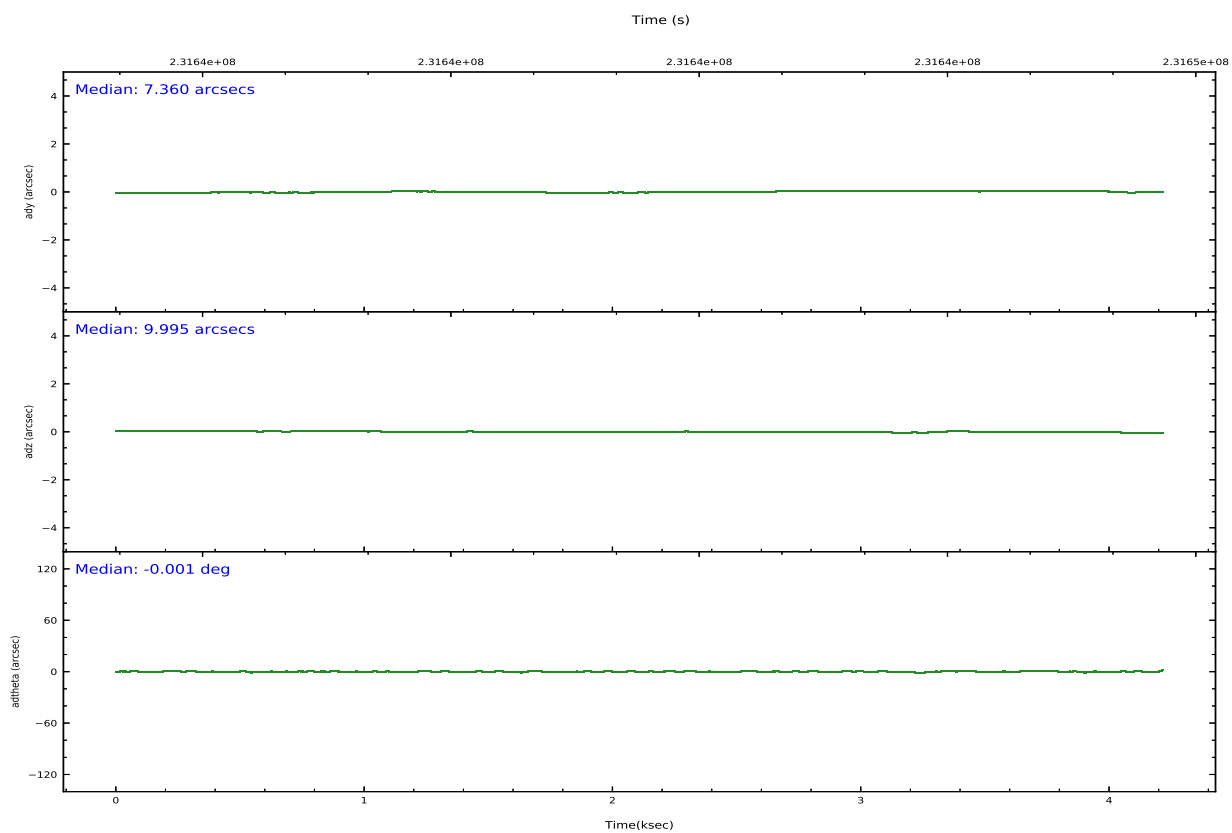
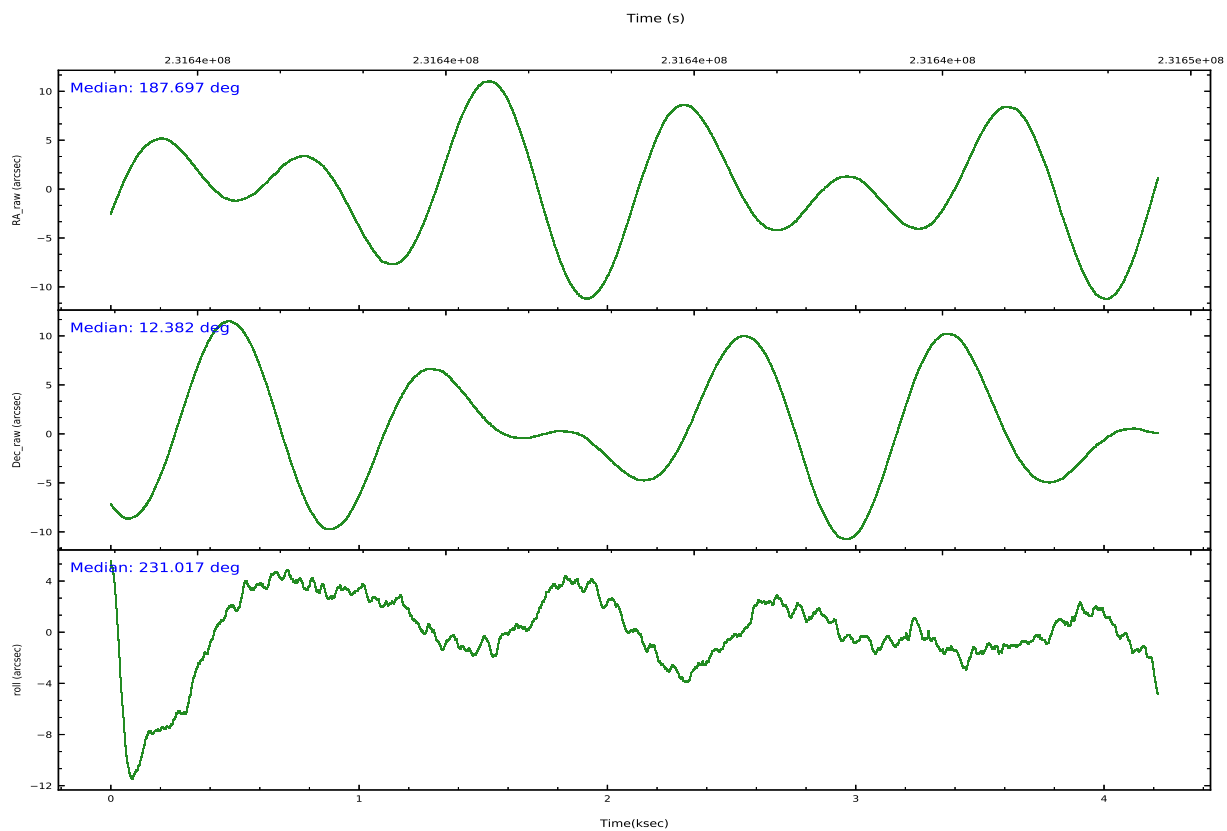
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4126	5467	4885	7227
	17%	17%	12%	7%
grade 1 events	29	32	34	44
	0%	0%	0%	0%
grade 2 events	15153	20618	29465	77702
	64%	66%	75%	83%
grade 3 events	745	718	678	968
	3%	2%	1%	1%
grade 4 events	740	714	700	871
	3%	2%	1%	0%
grade 5 events	1032	1123	1031	1584
	4%	3%	2%	1%
grade 6 events	1747	2278	2484	4971
	7%	7%	6%	5%
grade 7 events	0	3	0	0
	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.700928	187.6957951492	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.409538	12.385881709117	Alternating exposures requested	N	N
[deg] Pointing Roll	230.814479	231.01744676827	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-231.592463	-231.5960967419932			
[mm] SIM translation stage offset	-2	-1.996356260936523			
[s] Observation start time (MET)	231642041.184000	231641458.99748			
Observation start date	2005-05-05T00:59:37	2005-05-05T00:50:58			
[s] Observation end time (MET)	231645869.184000	231646105.32269			
Observation end date	2005-05-05T02:03:25	2005-05-05T02:08:25			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



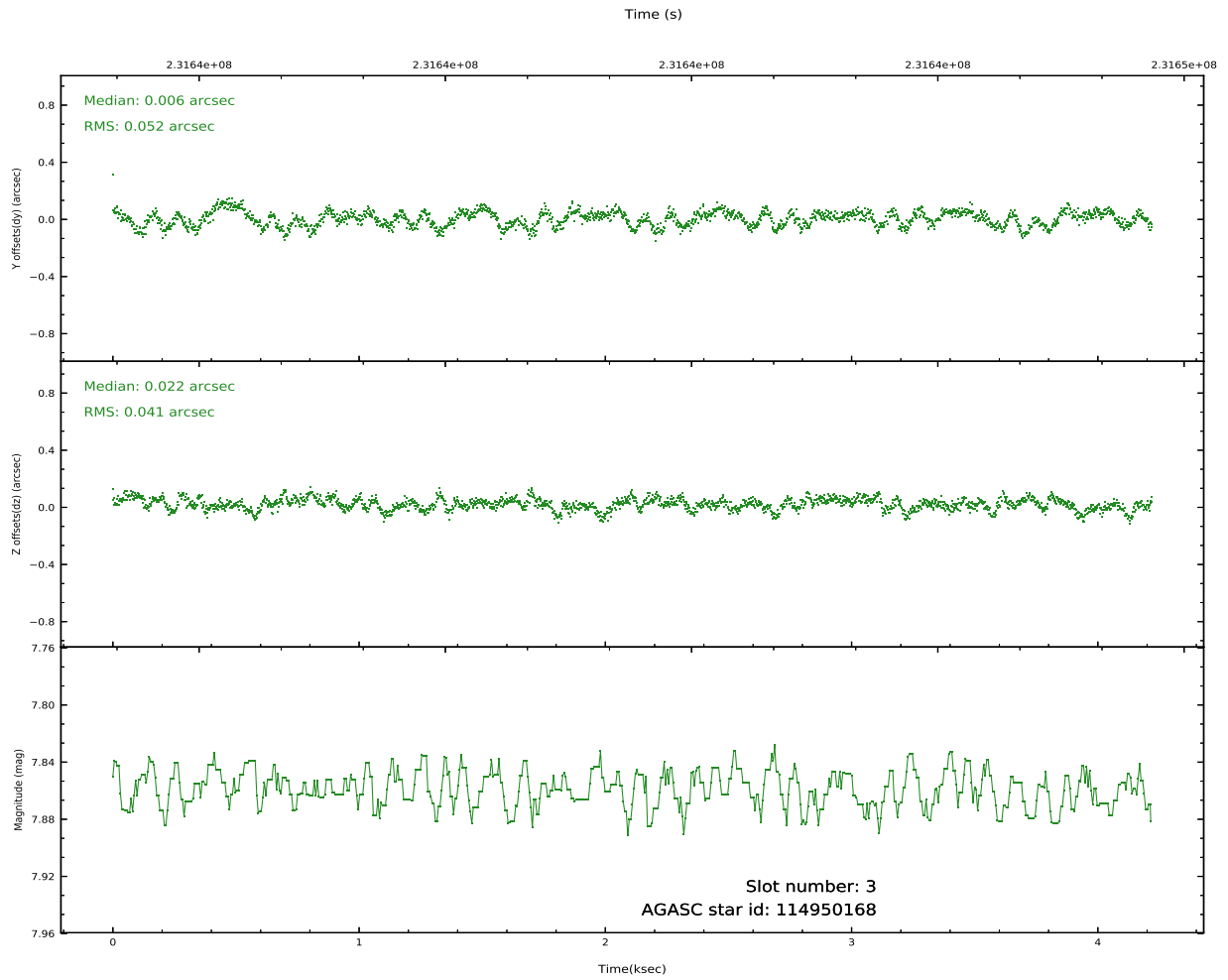
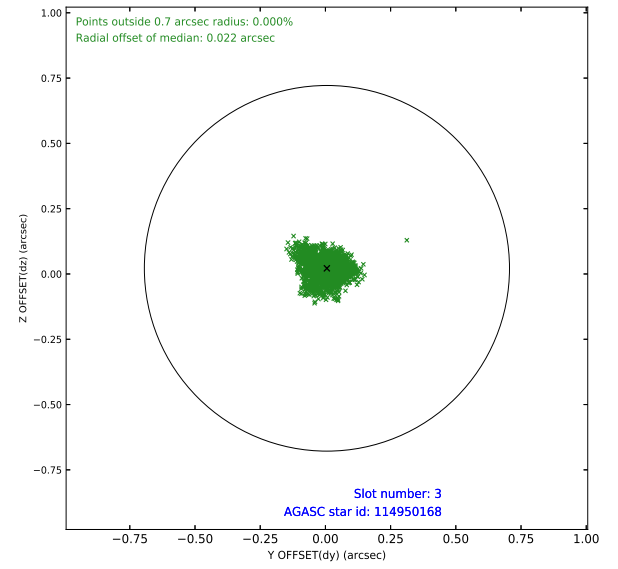
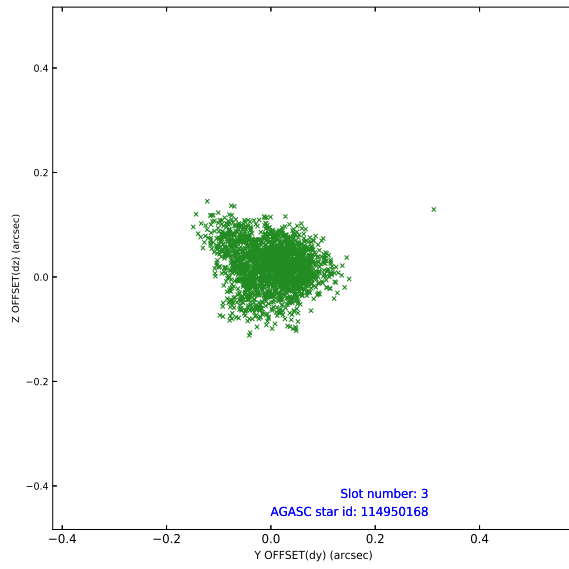


Slot Statistics

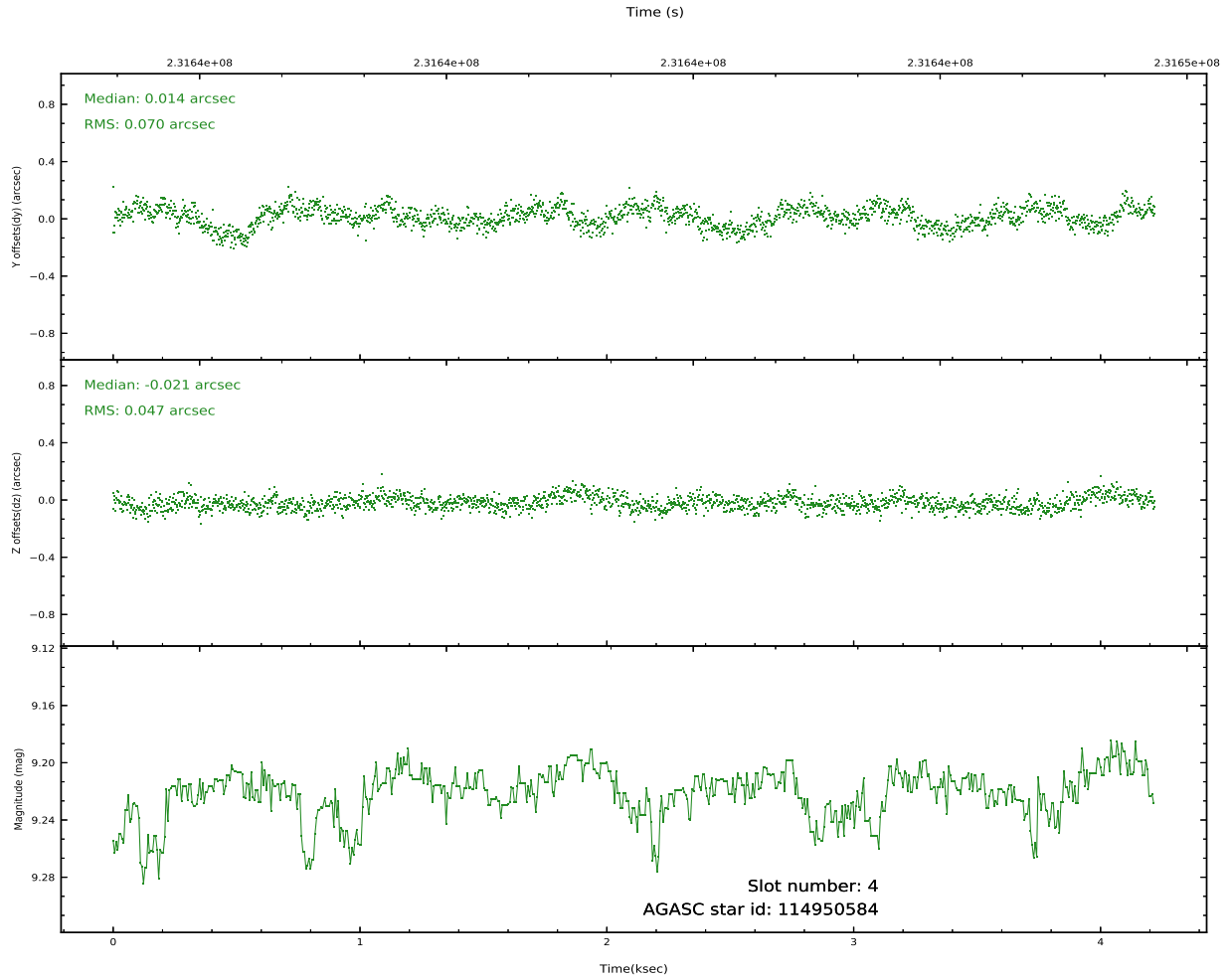
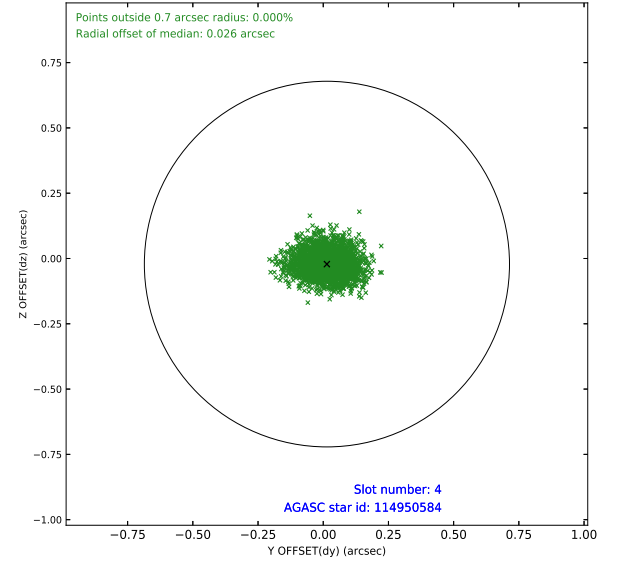
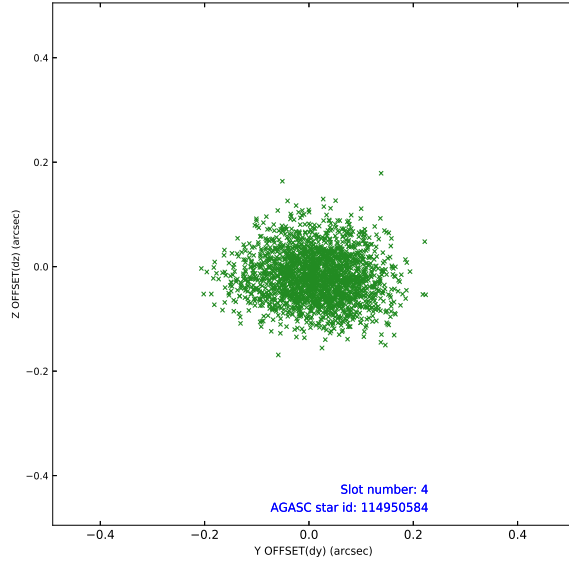
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	1029	1.000	0.048	-0.047	0.006	0.011	0.000000	0.000000	932.30	-874
1	FID		ACIS-I-5	7.23	1029	1.000	-0.237	0.037	0.006	0.011	0.000000	0.000000	-1815.23	1022
2	FID		ACIS-I-6	7.25	1029	1.000	0.098	0.081	0.007	0.012	0.000000	0.000000	396.35	1668
3	GUIDE	used	114950168	7.86	2059	1.000	0.006	0.022	0.070	0.114	187.143398	12.117441	2053.68	-857
4	GUIDE	used	114950584	9.22	2058	1.000	0.014	-0.021	0.090	0.149	187.487323	11.827248	2101.31	740
5	GUIDE	used	114952824	8.58	2059	1.000	0.003	0.057	0.062	0.101	187.703904	12.486727	-220.69	-167
6	GUIDE	used	114954440	9.20	2057	1.000	0.126	-0.181	0.097	0.155	186.915066	12.219118	2275.40	-1712
7	GUIDE	used	114955056	8.31	2057	1.000	-0.147	0.125	0.072	0.114	187.914001	12.127854	313.08	1220

2.4 Star Slots

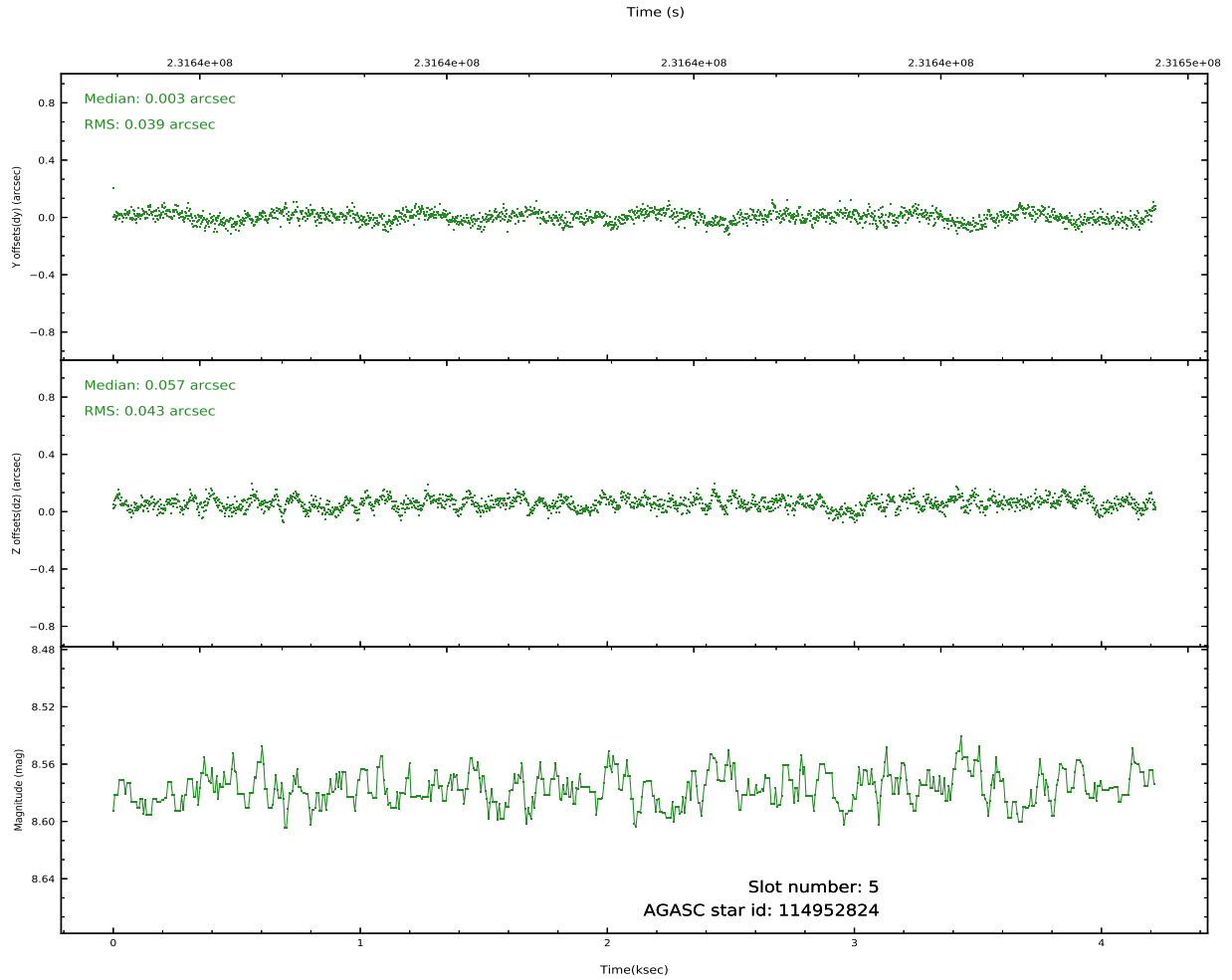
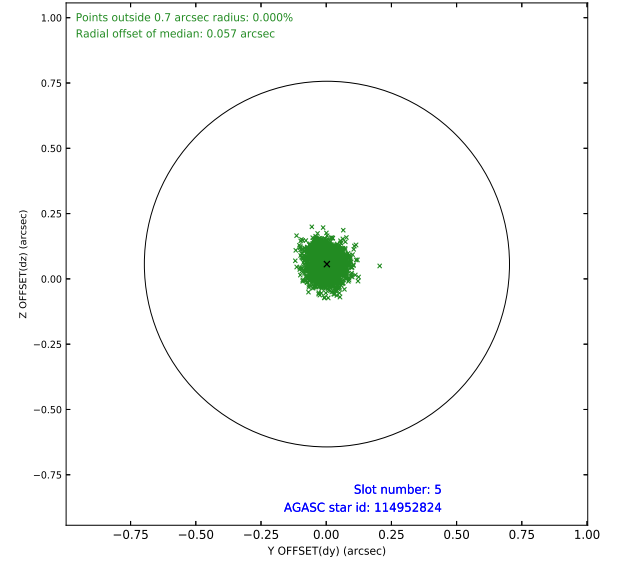
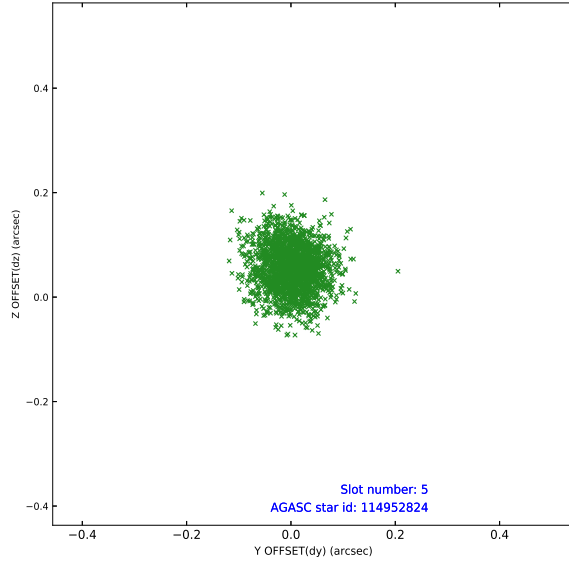
2.4.1 Slot 3



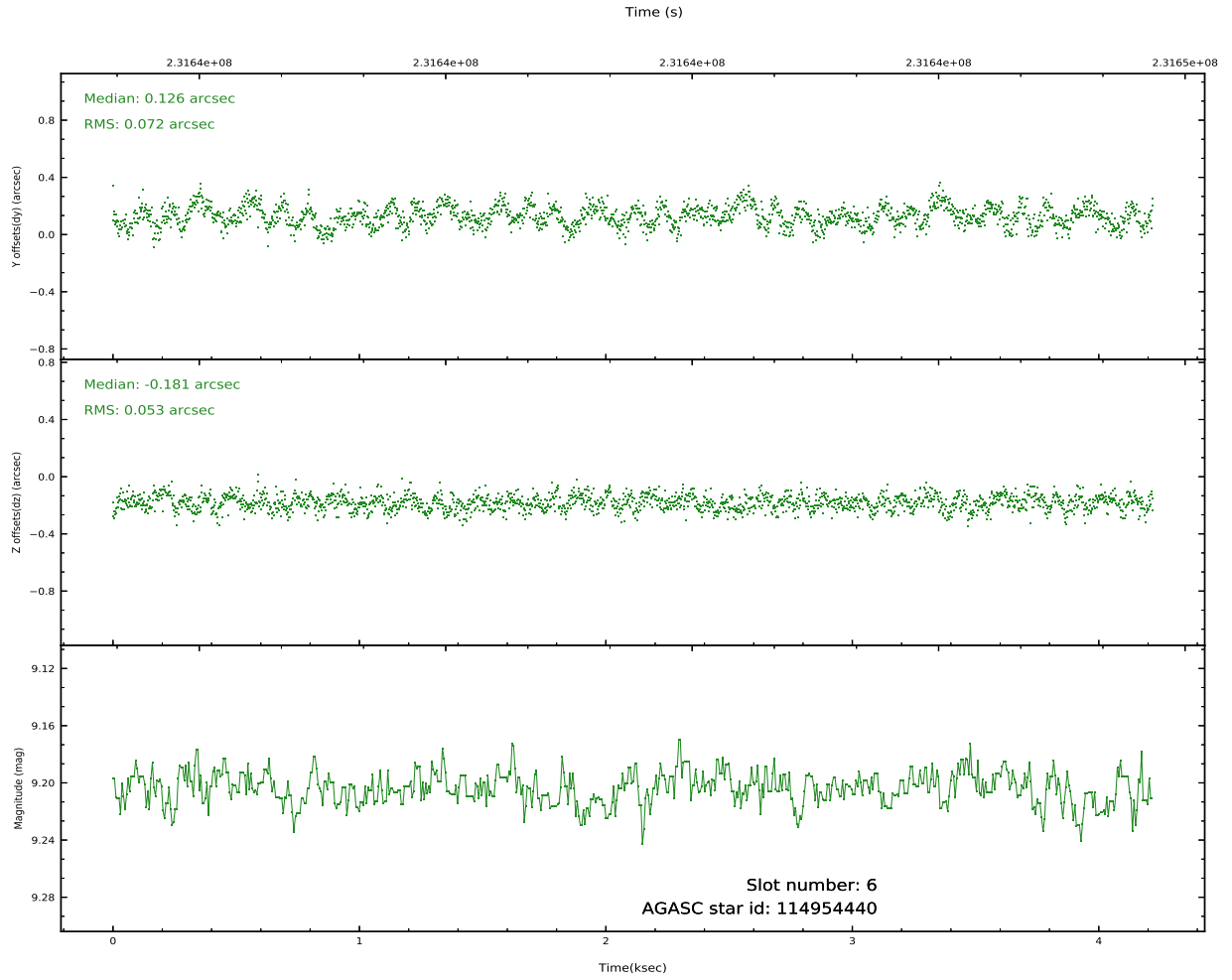
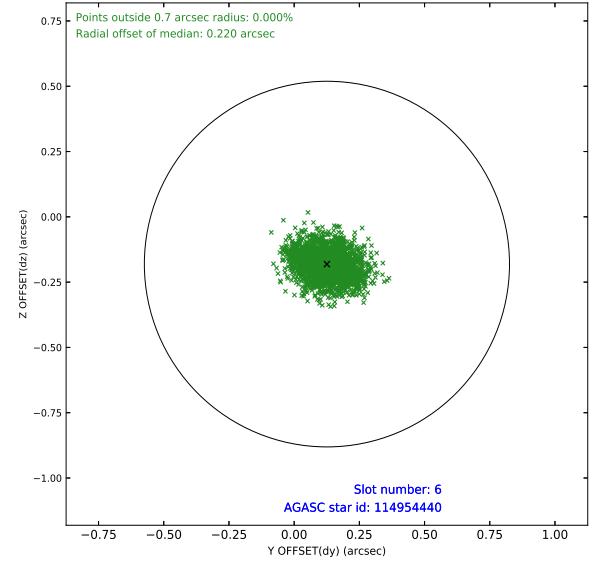
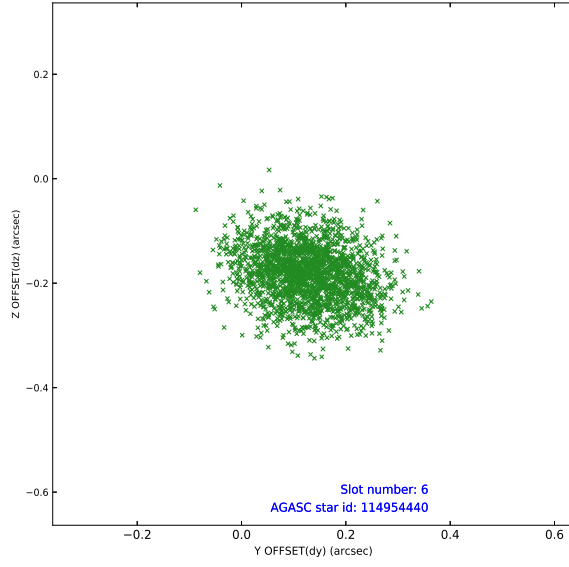
2.4.2 Slot 4



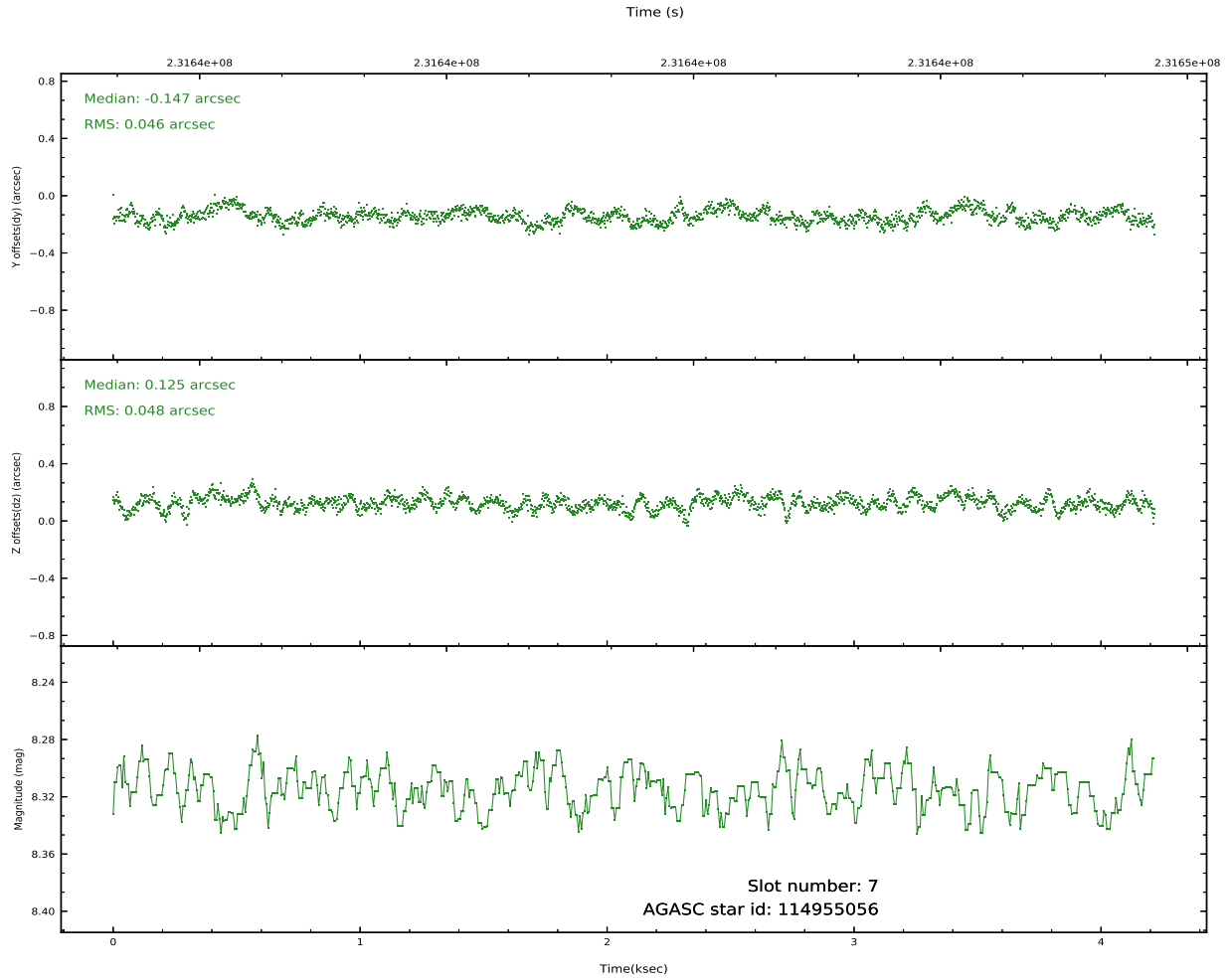
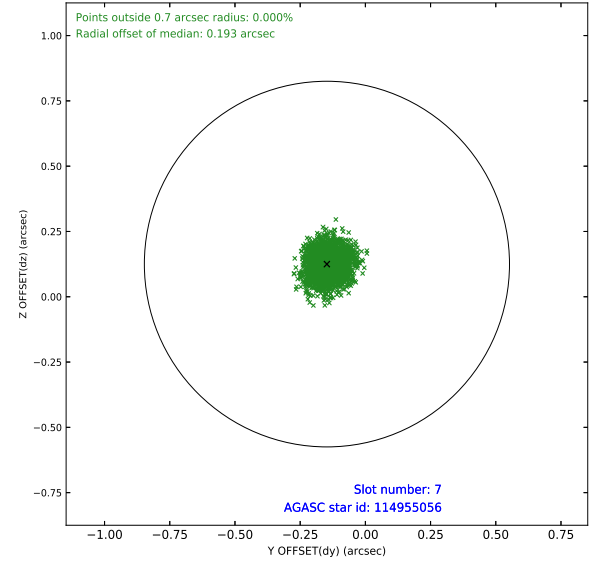
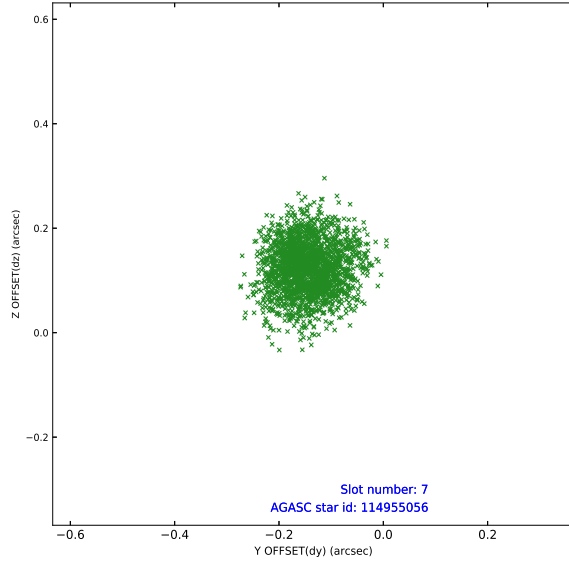
2.4.3 Slot 5



2.4.4 Slot 6

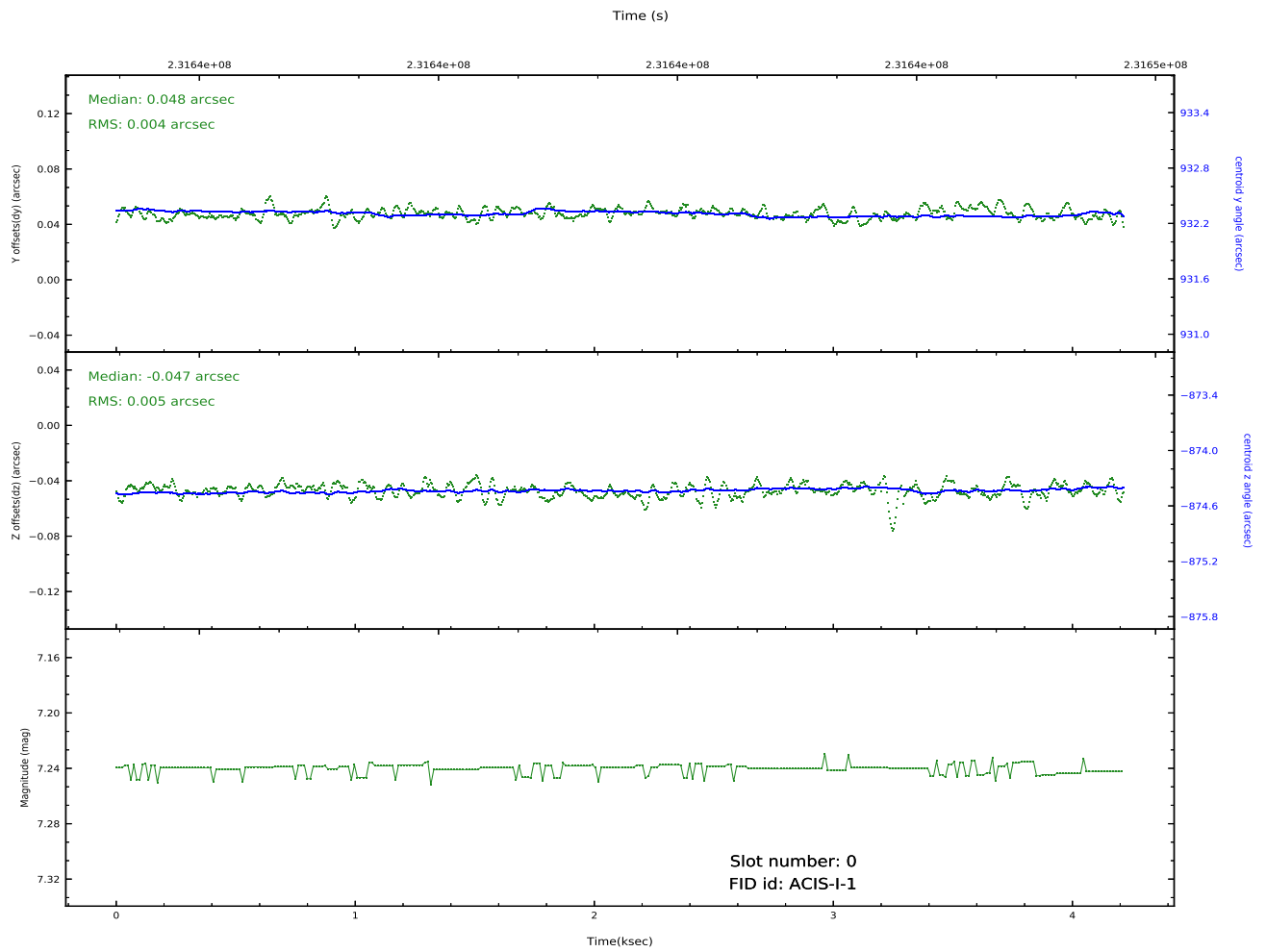
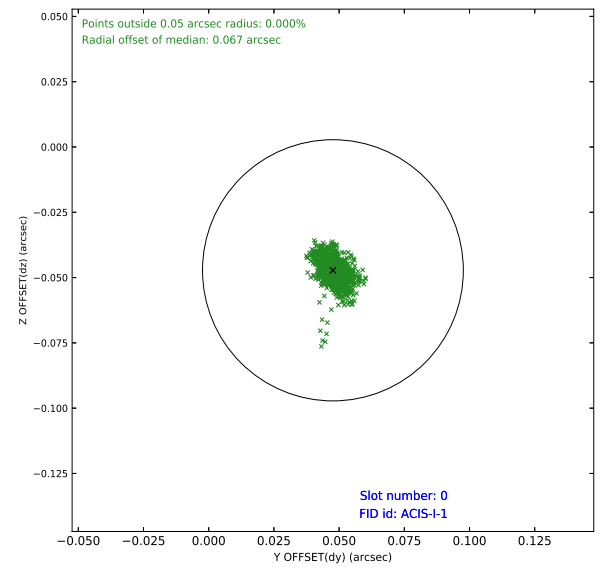
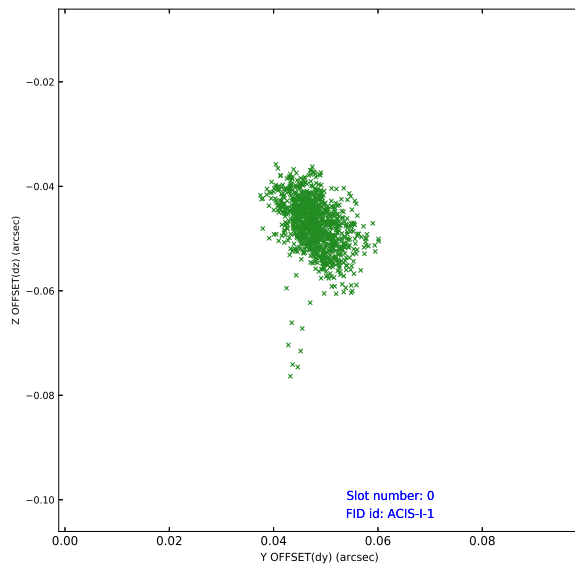


2.4.5 Slot 7

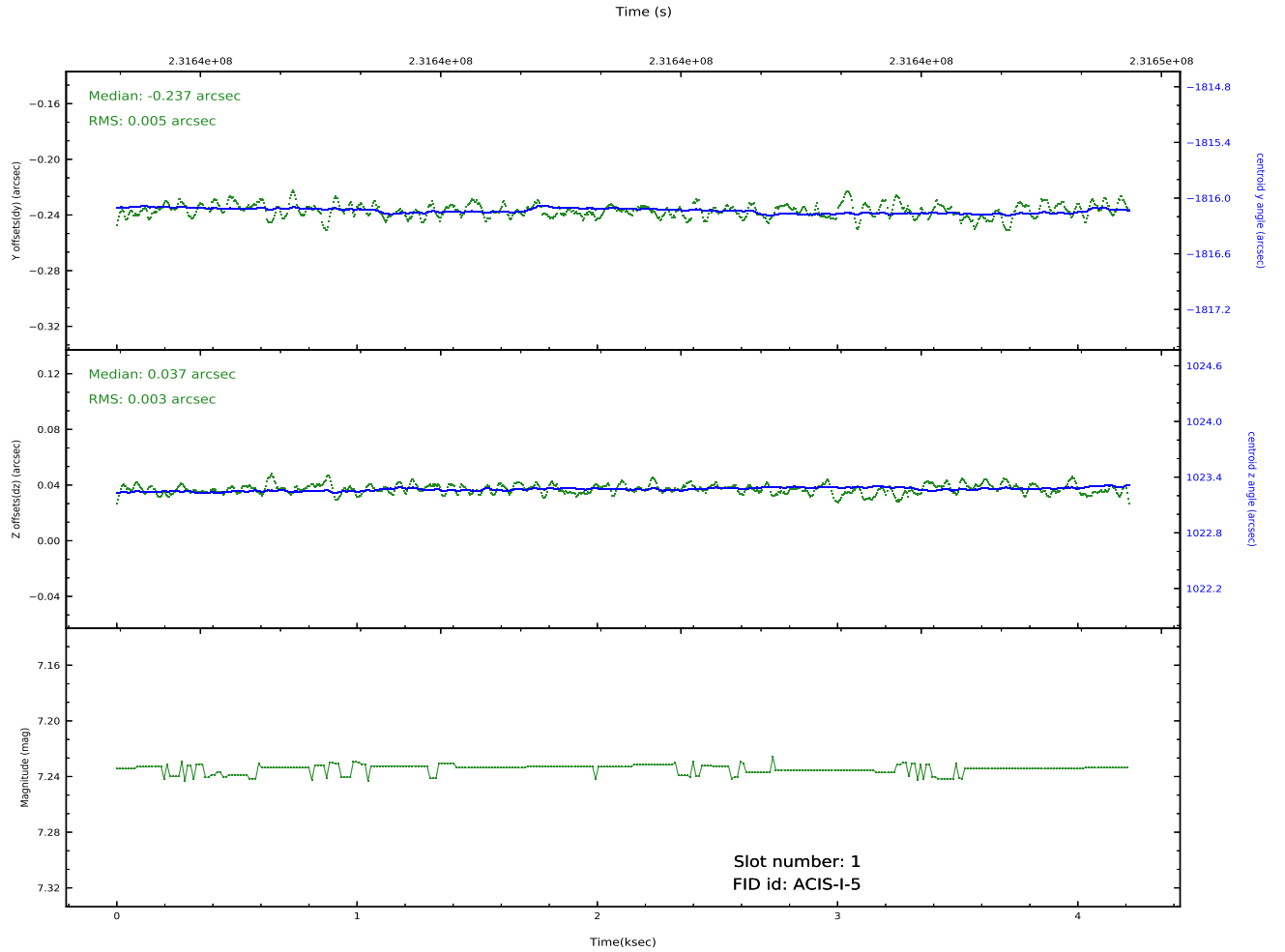
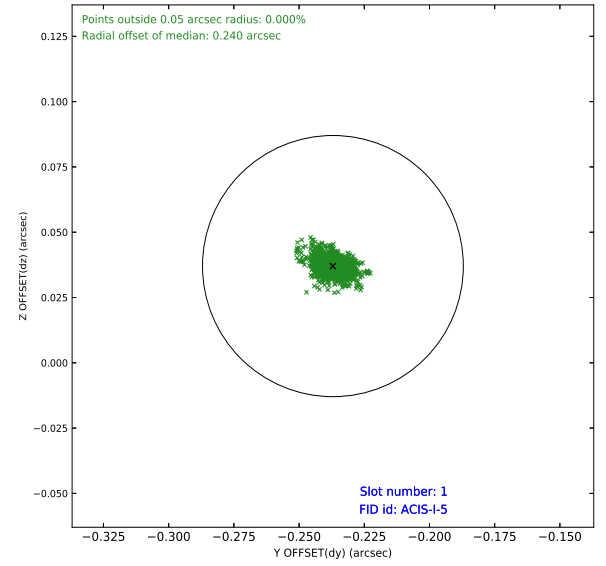
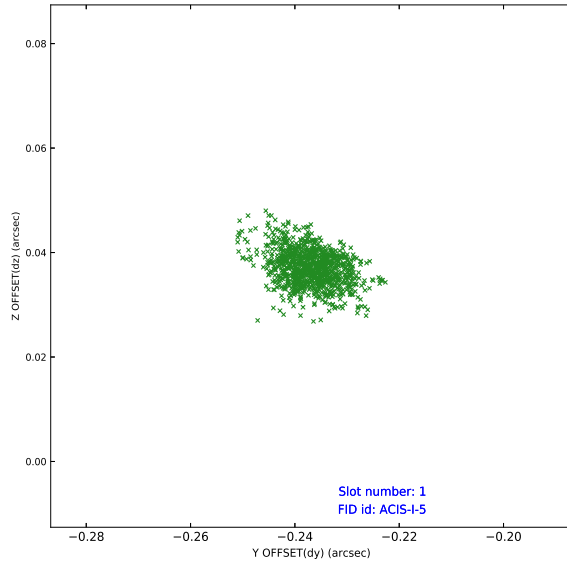


2.5 FID Slots

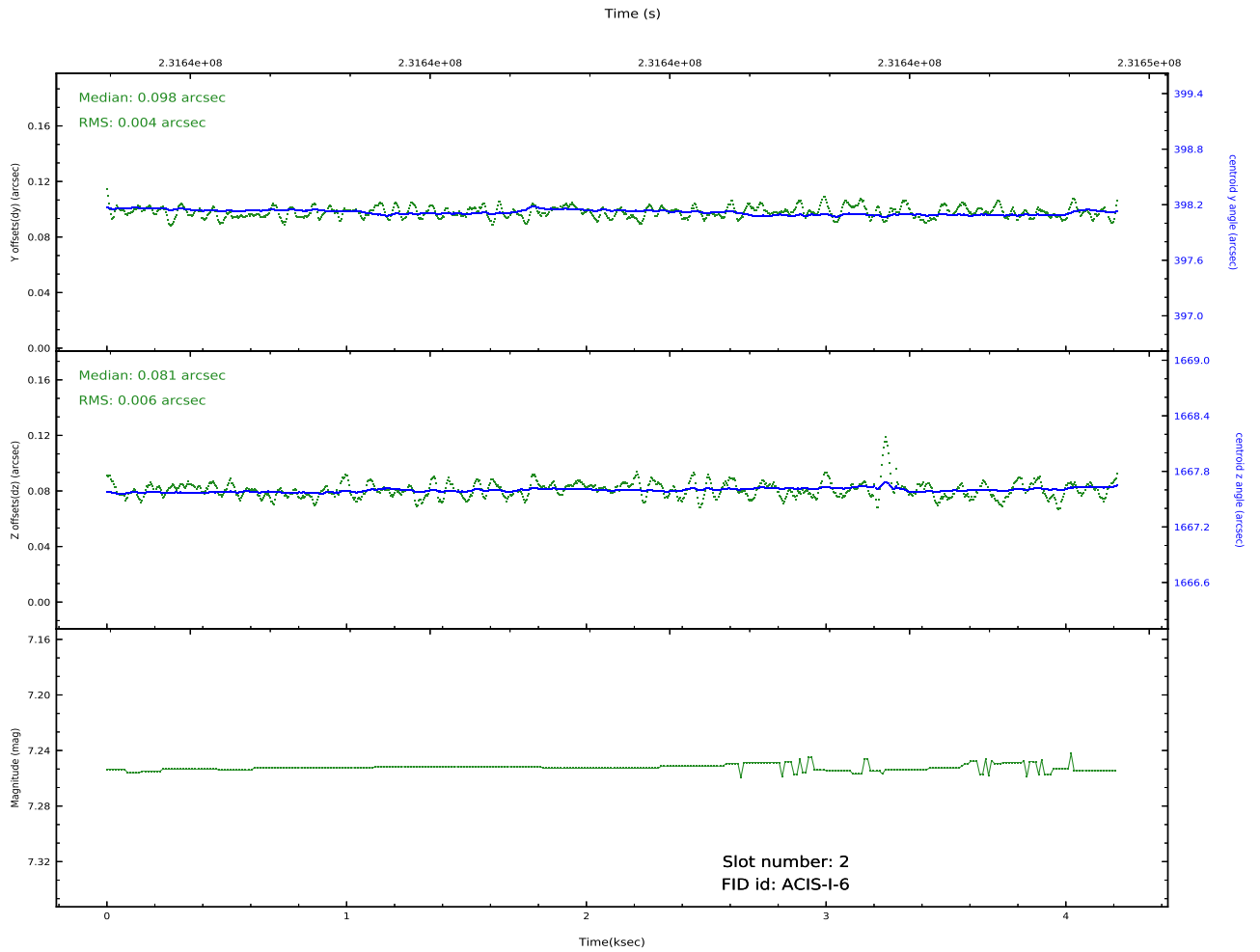
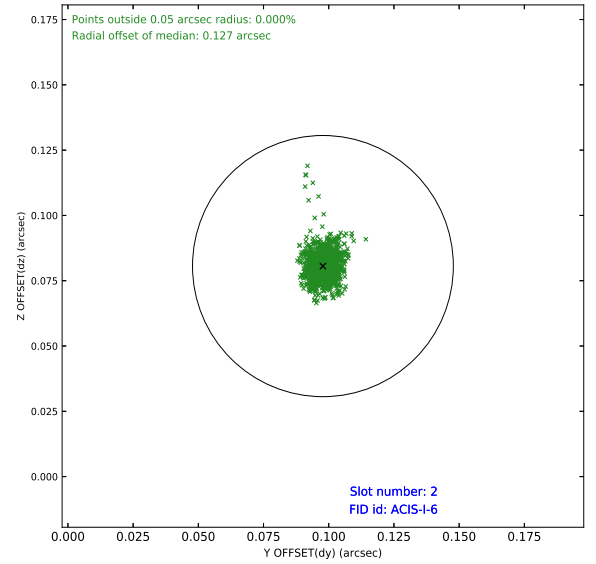
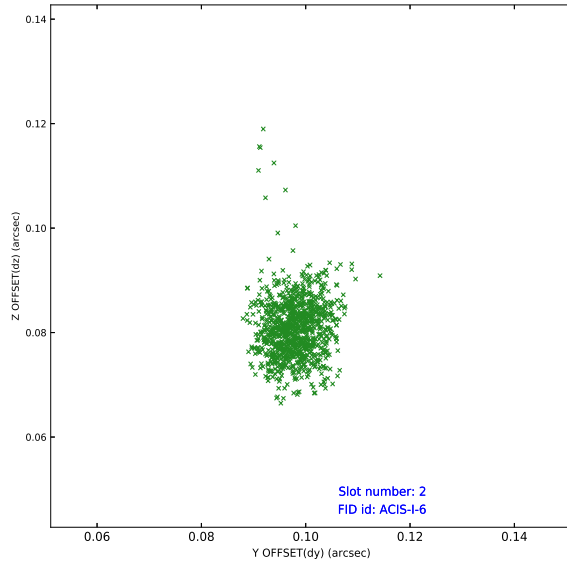
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.9765

A.2 Comments