

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20294 - L2 Version 2
Chandra X-Ray Center

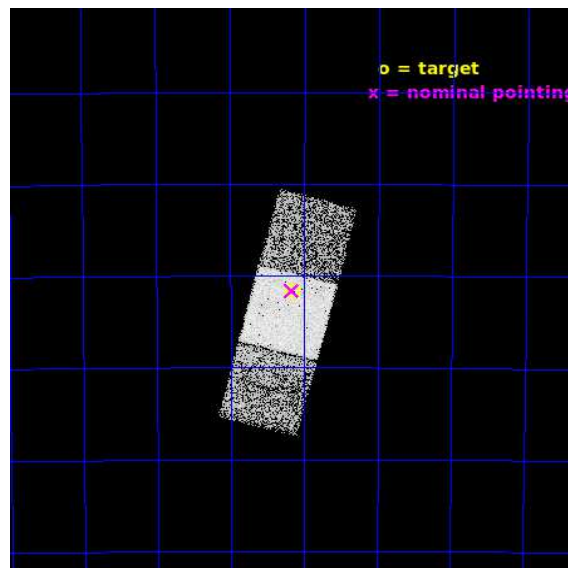
L2 Processing Date : Oct 24 2020

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1 Front

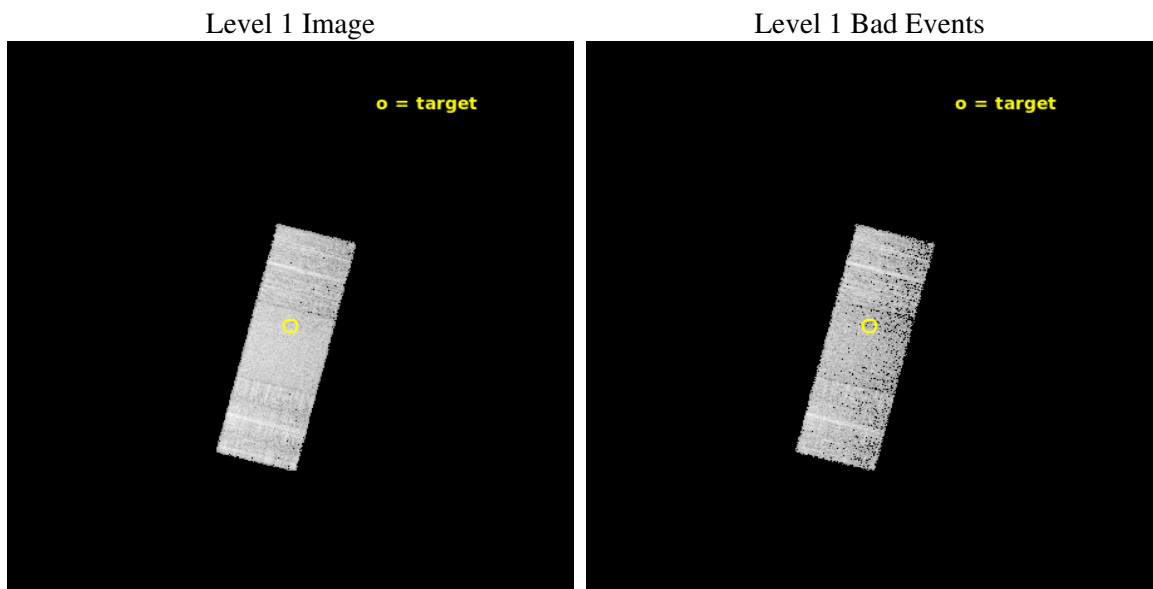
seq_num	502993	Sequence number
obs_id	20294	Observation id
title	Uncovering a new population of soft gamma-ray pulsars with Chandra	
observer	Pablo Saz Parkinson	Principal investigator
object	3FGL J1542.4-5911	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	235.5385	Observer's specified target RA [deg]
dec_targ	-59.027306	Observer's specified target Dec [deg]
ra_nom	235.54208415958	Nominal RA [deg]
dec_nom	-59.027106887602	Nominal Dec [deg]
roll_nom	104.34265393298	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5111.1489419937	Sum of GTIs [s]
livetime	5044.3680182935	Livetime [s]
ontime6	5111.10790205	Sum of GTIs [s]
ontime7	5111.1489419937	Sum of GTIs [s]
ontime8	5111.0668619871	Sum of GTIs [s]
l2events	28702	Number of level 2 events



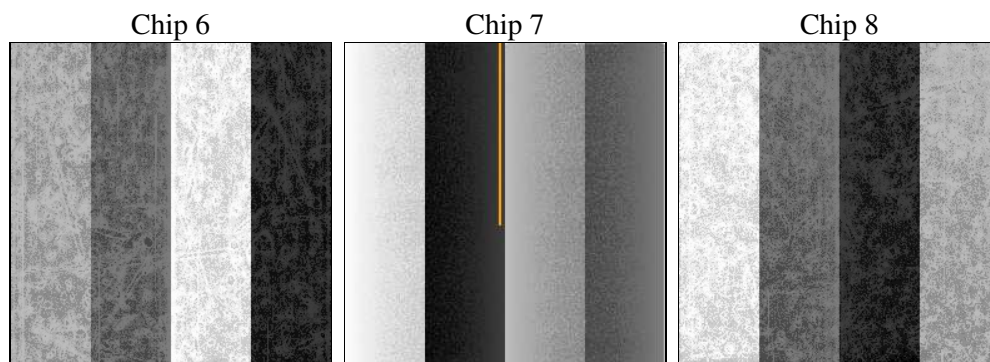
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	5111.1489419937	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	5111.10790205	Sum of GTIs [s]
date	2020-10-24T07:10:04	Date and time of file creation	ontime7	5111.1489419937	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	5111.0668619871	Sum of GTIs [s]
			l1events	134363	Number of level 1 events

2.1.4 Events

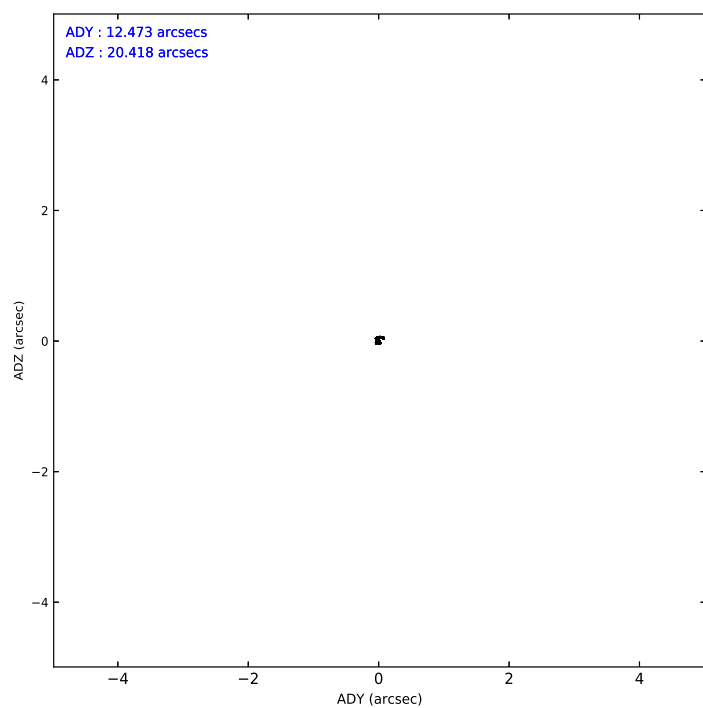
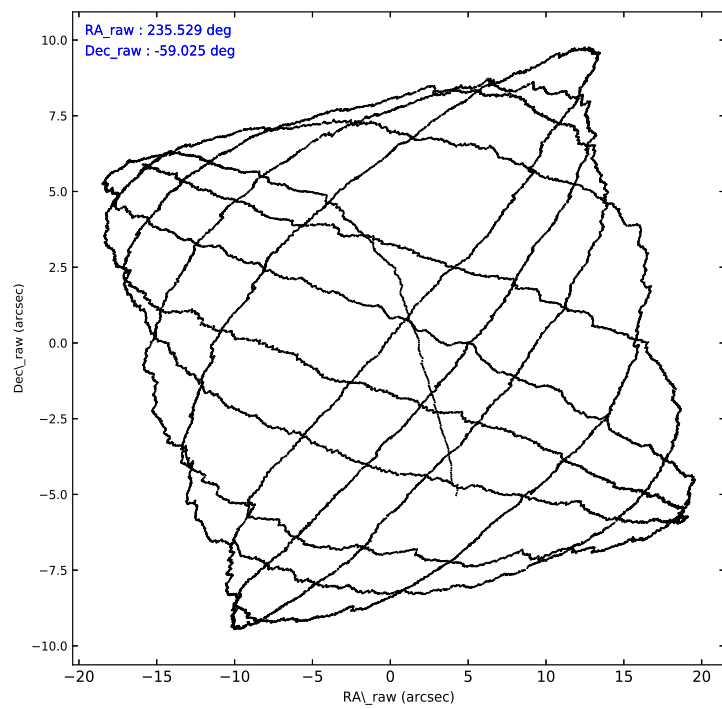
	ccd 6	ccd 7	ccd 8
level 1 events	36636	47593	50134
rejected events	32327	26647	35774
rejected %	88%	55%	71%

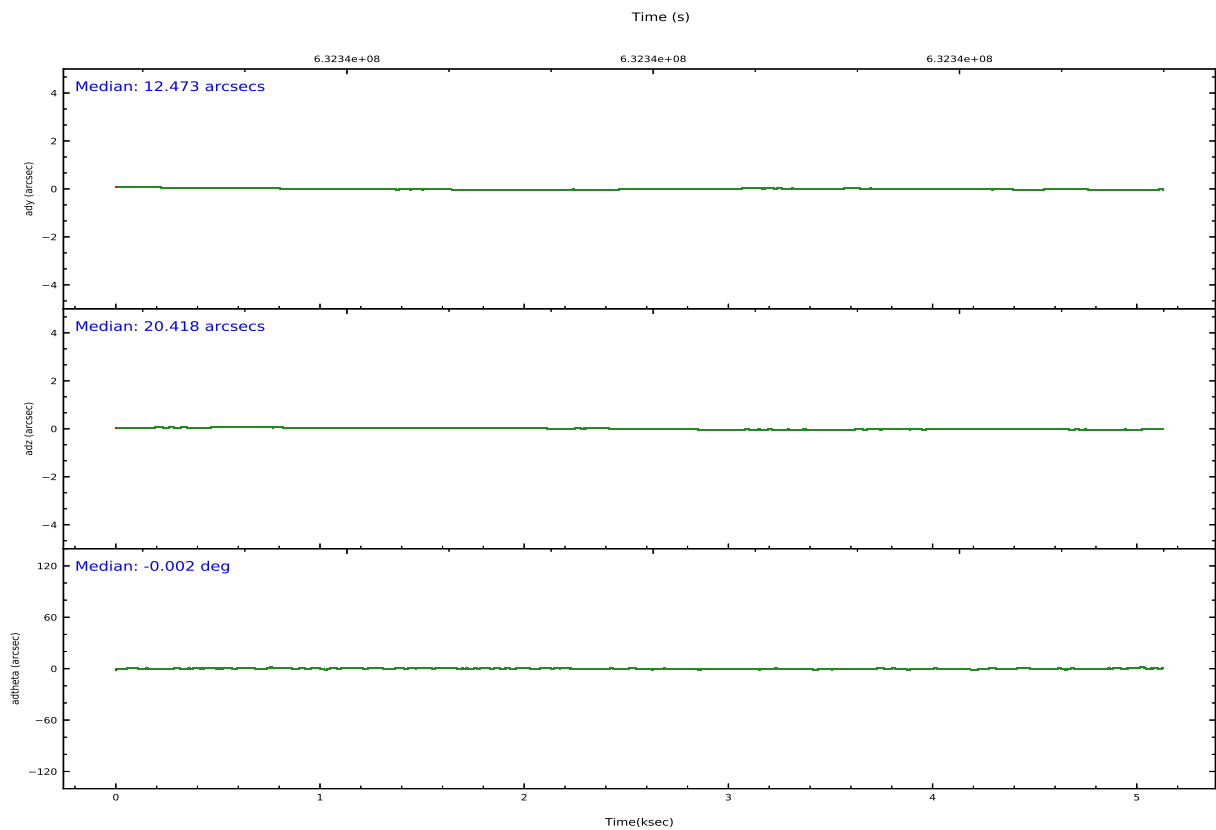
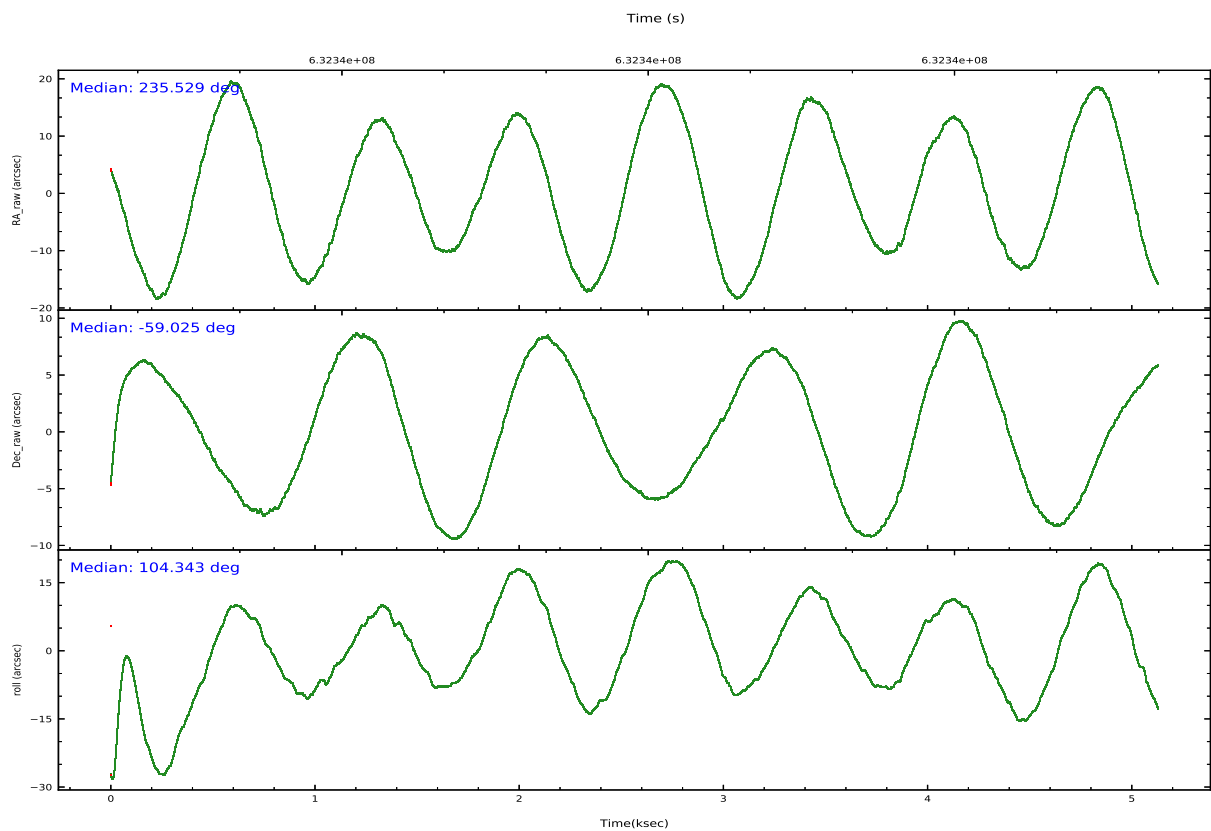
	ccd 6	ccd 7	ccd 8
grade 0 events	1462	1838	4348
	3%	3%	8%
grade 1 events	24	63	36
	0%	0%	0%
grade 2 events	978	4365	3474
	2%	9%	6%
grade 3 events	425	1718	1466
	1%	3%	2%
grade 4 events	429	1726	1319
	1%	3%	2%
grade 5 events	1733	4891	2790
	4%	10%	5%
grade 6 events	1020	11330	3769
	2%	23%	7%
grade 7 events	30565	21662	32932
	83%	45%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-678	ACIS-678	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	235.567042	235.54208415958	Subarray requested	NONE	NONE
[deg] Pointing Dec	-59.044502	-59.027106887602	Alternating exposures requested	N	N
[deg] Pointing Roll	104.216919	104.34265393298	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	632338498.184000	632336932.69674			
Observation start date	2018-01-14T17:33:49	2018-01-14T17:08:52			
[s] Observation end time (MET)	632343498.184000	632344463.88469			
Observation end date	2018-01-14T18:57:09	2018-01-14T19:14:23			
Read mode	TIMED	TIMED			

2.3 Aspect



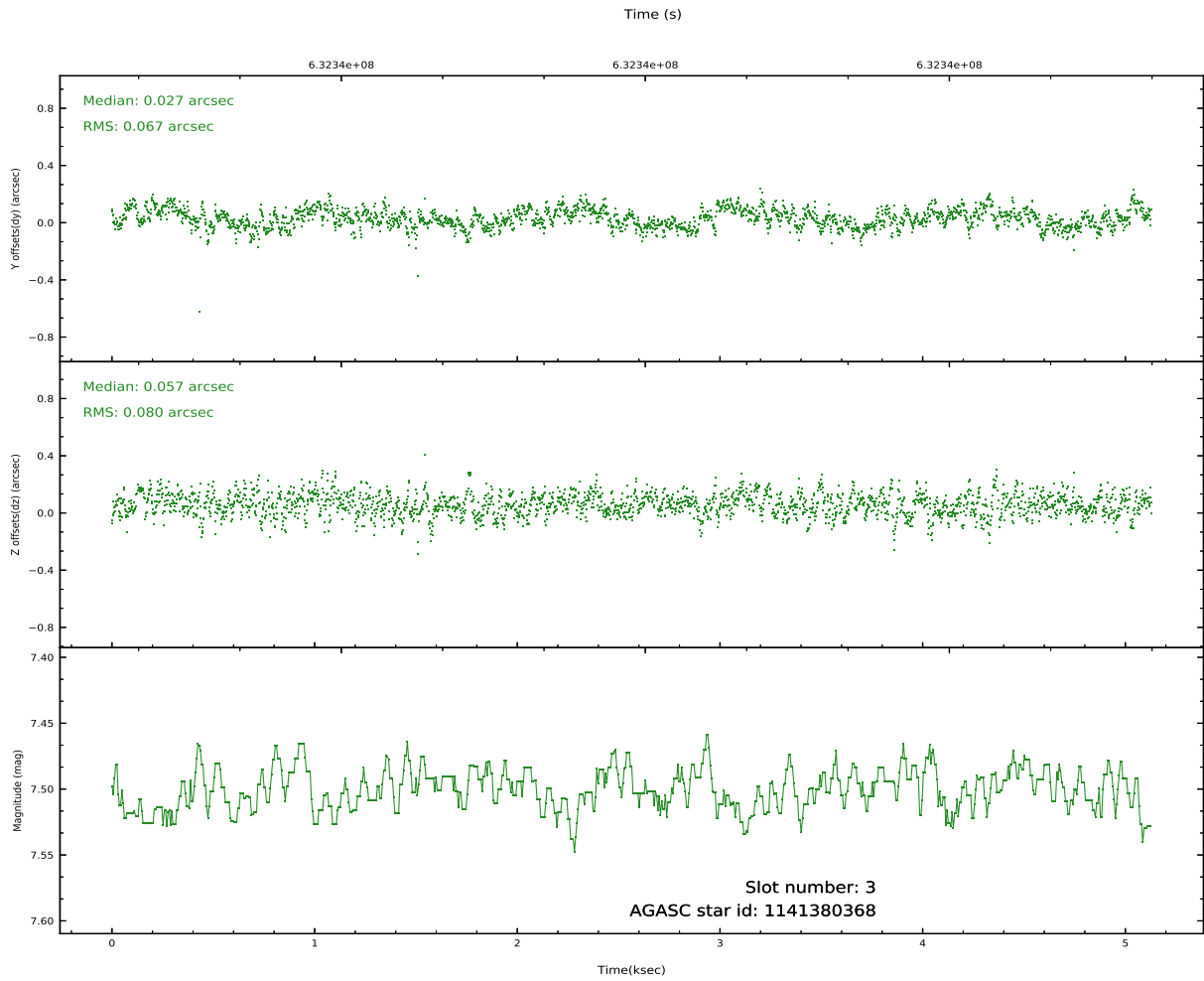
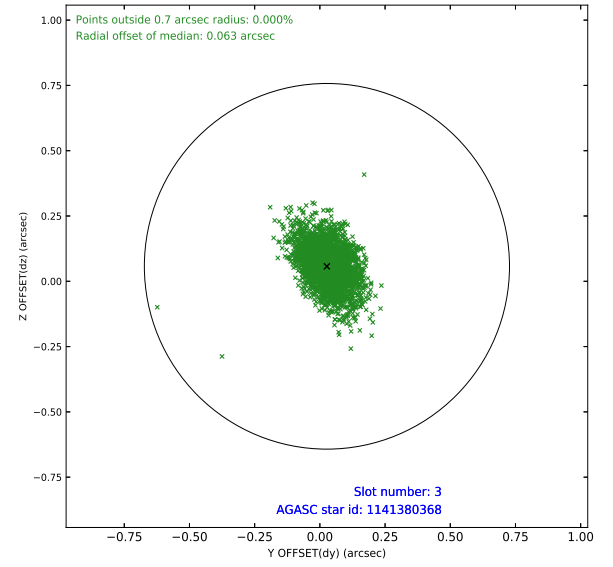
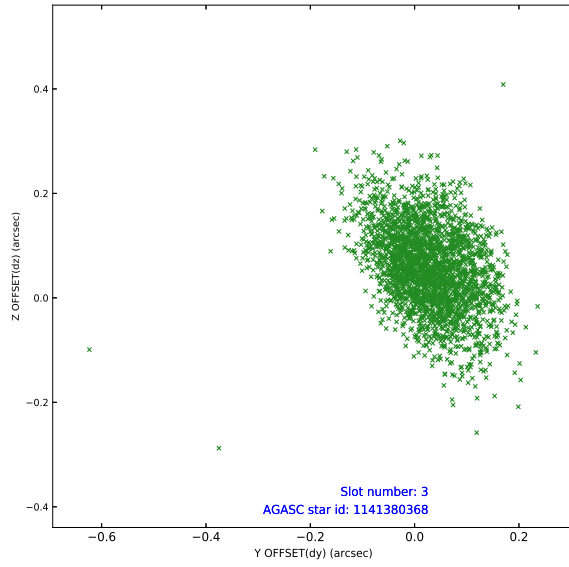


Slot Statistics

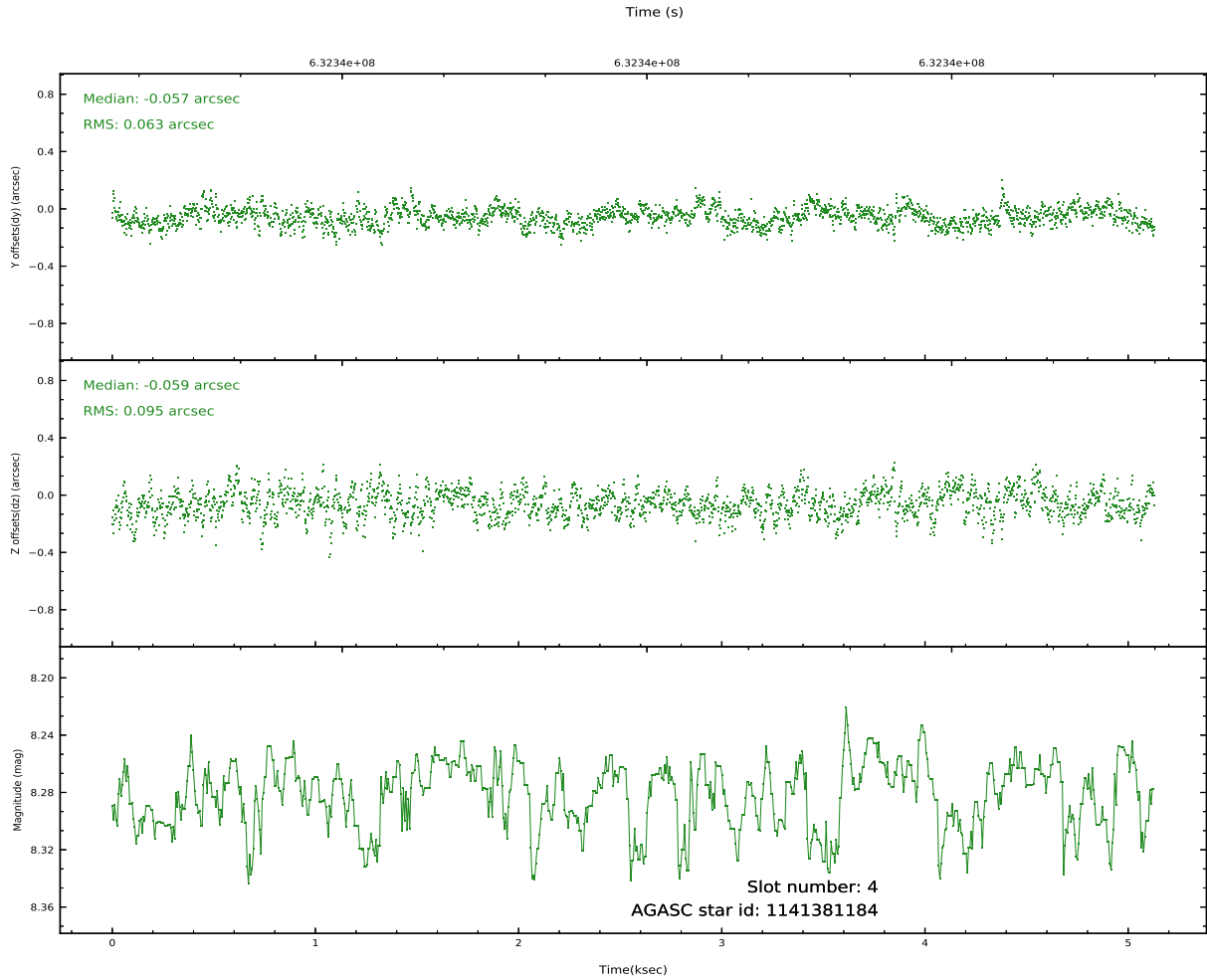
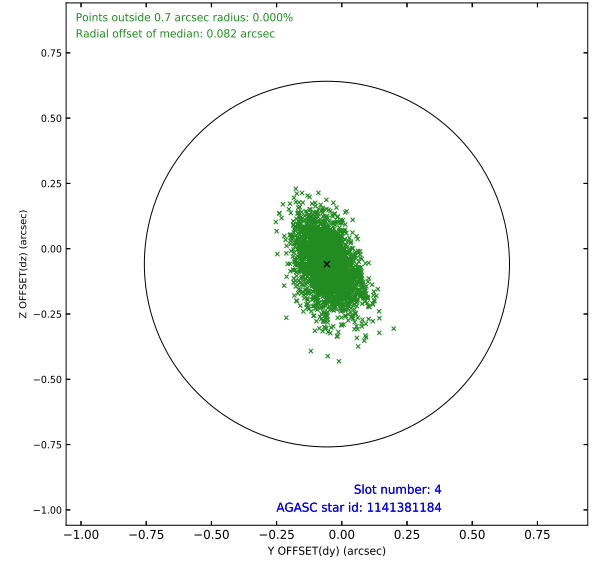
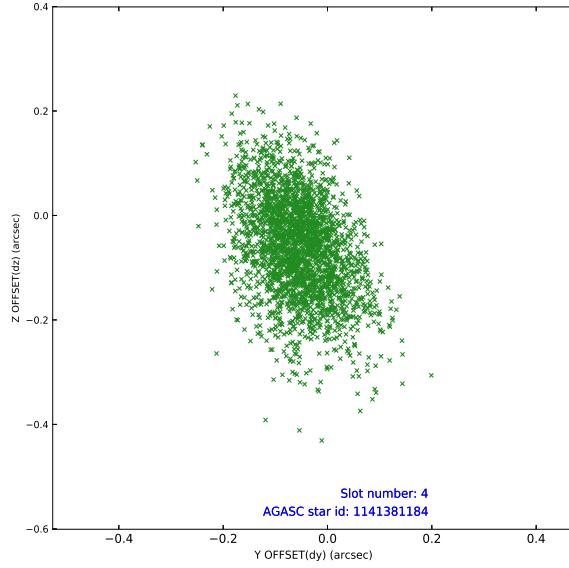
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.96	1251	1.000	0.009	0.020	0.006	0.010	0.000000	0.000000	-765.44	-1741
1	FID		ACIS-S-4	7.09	1252	1.000	0.069	-0.036	0.008	0.012	0.000000	0.000000	2147.44	165
2	FID		ACIS-S-6	7.21	1252	1.000	-0.105	0.023	0.009	0.014	0.000000	0.000000	398.05	804
3	GUIDE	used	1141380368	7.50	2503	1.000	0.027	0.057	0.106	0.183	235.089789	-59.136518	-107.83	936
4	GUIDE	used	1141381184	8.28	2502	1.000	-0.057	-0.059	0.118	0.205	234.393732	-58.788571	1411.63	1901
5	GUIDE	used	1141382912	8.54	2503	1.000	-0.165	-0.036	0.108	0.198	234.429238	-58.517879	2345.49	1613
6	GUIDE	used	1141382448	8.75	2503	1.000	-0.025	-0.050	0.114	0.203	234.501278	-59.406897	-800.42	2217
7	GUIDE	used	1141388288	8.95	2502	1.000	0.215	0.091	0.122	0.216	235.772393	-59.682742	-2319.57	204

2.4 Star Slots

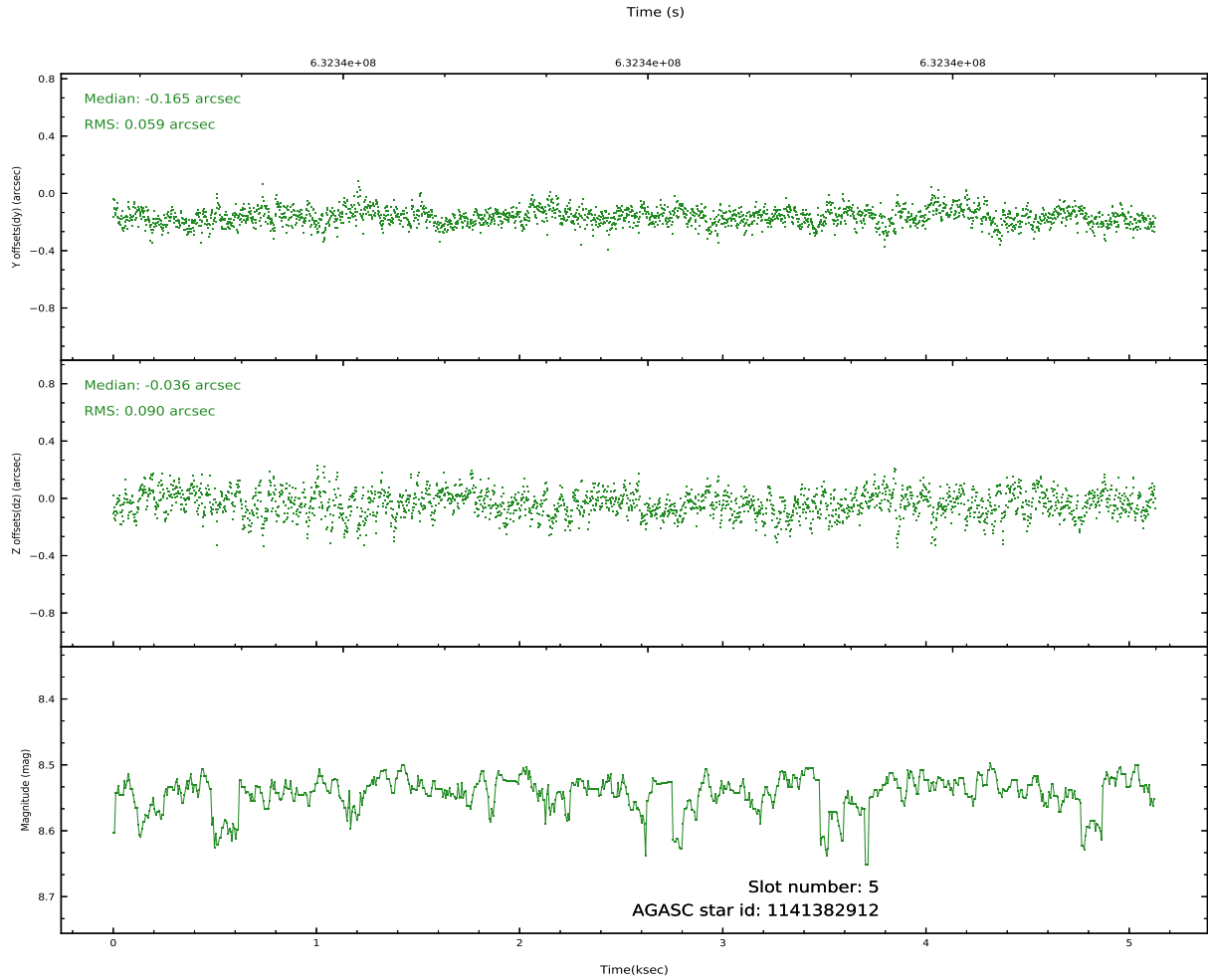
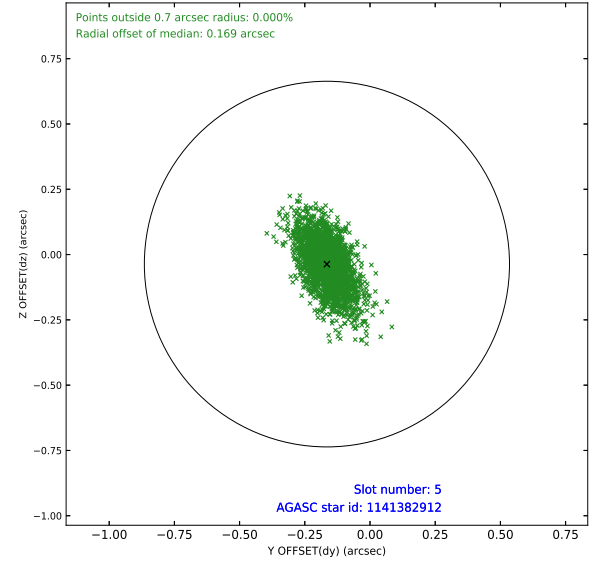
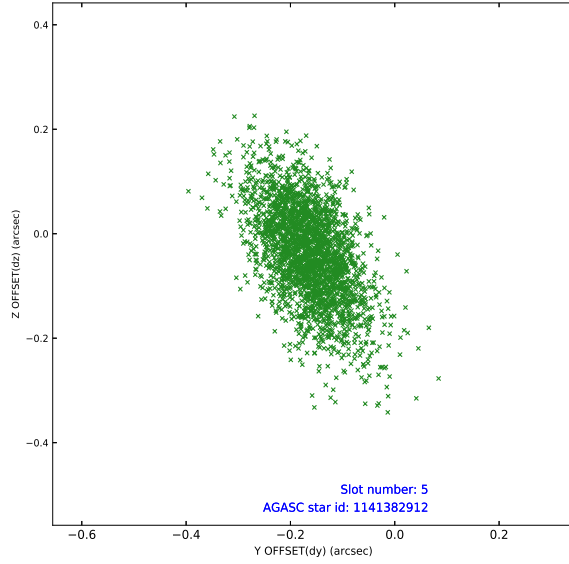
2.4.1 Slot 3



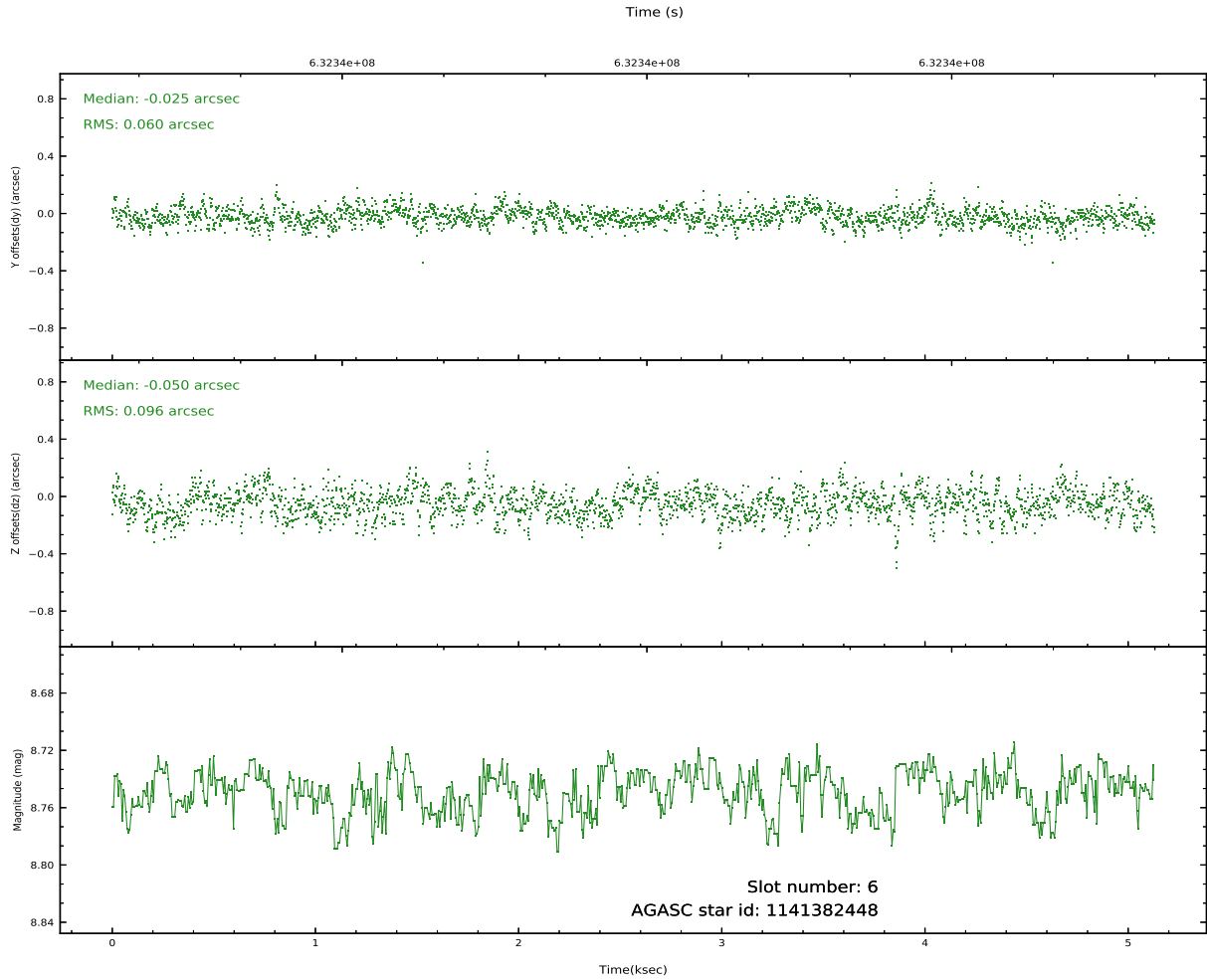
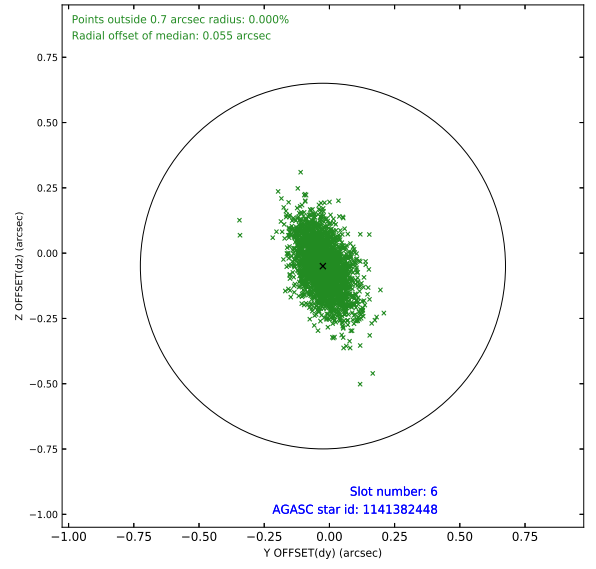
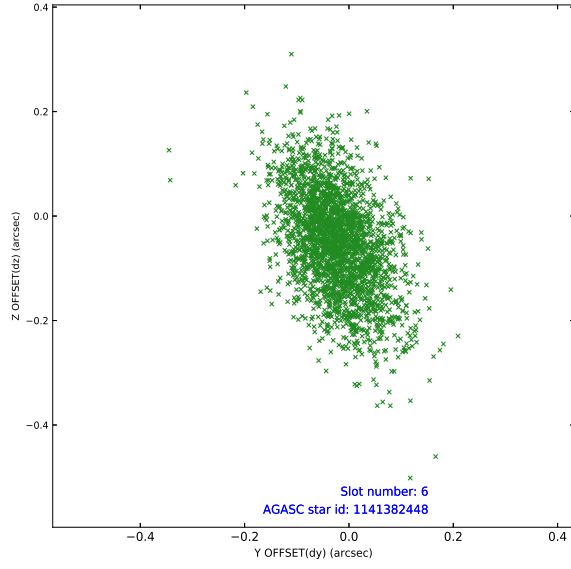
2.4.2 Slot 4



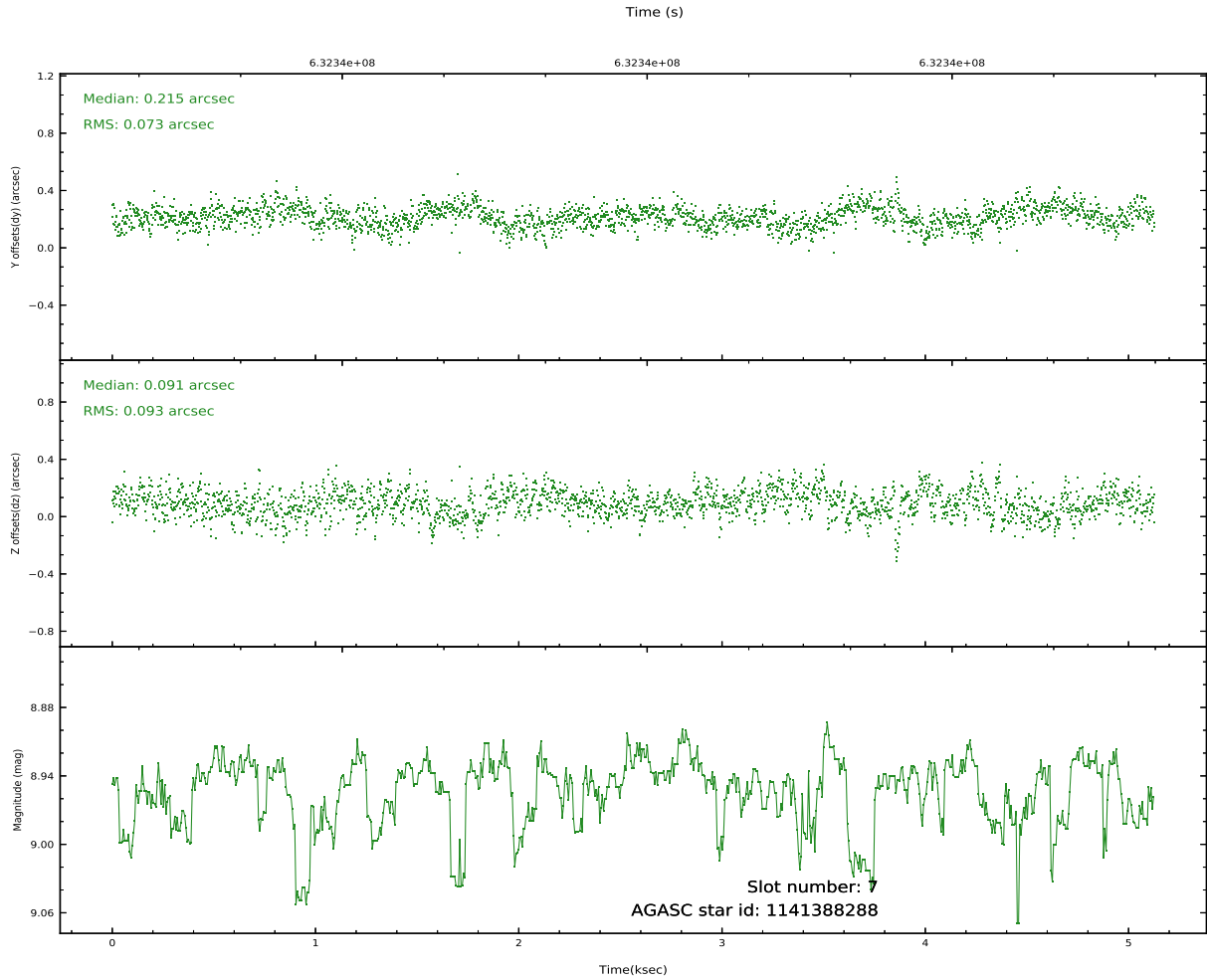
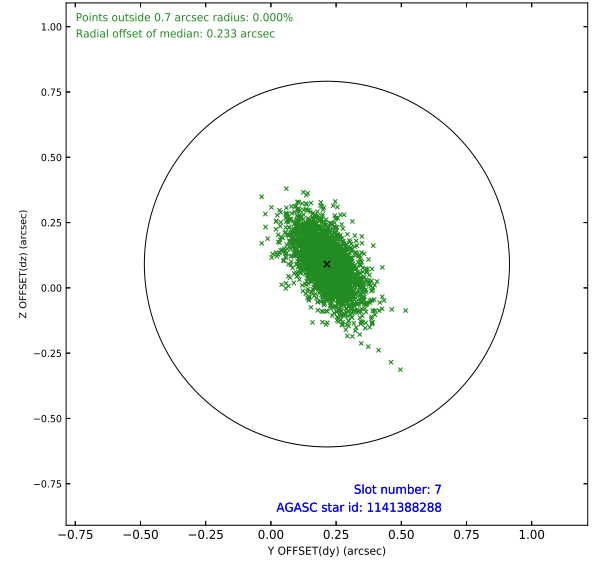
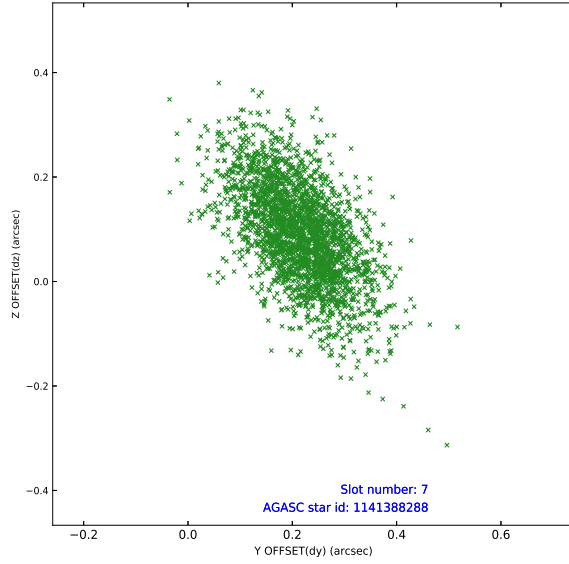
2.4.3 Slot 5



2.4.4 Slot 6

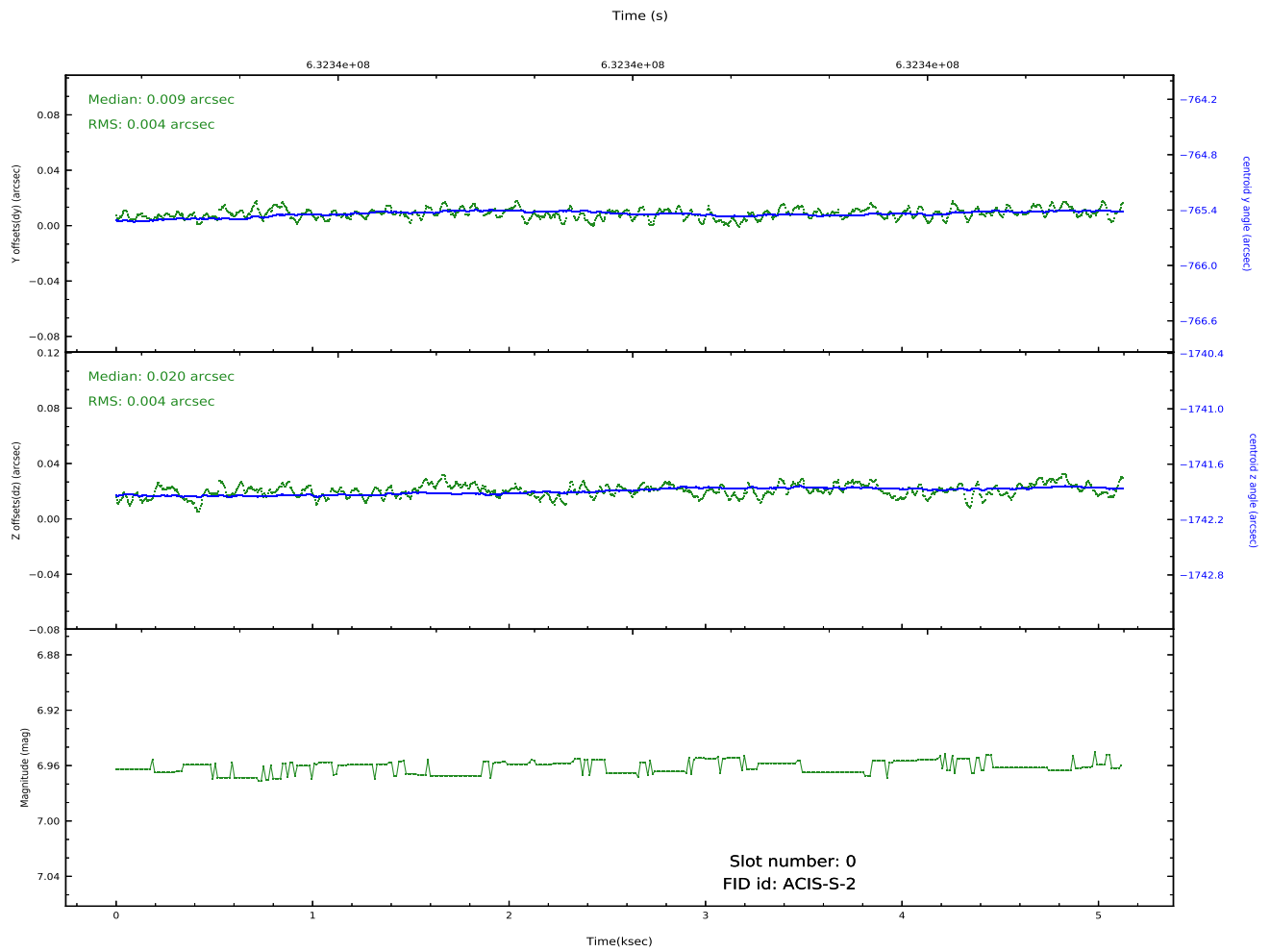
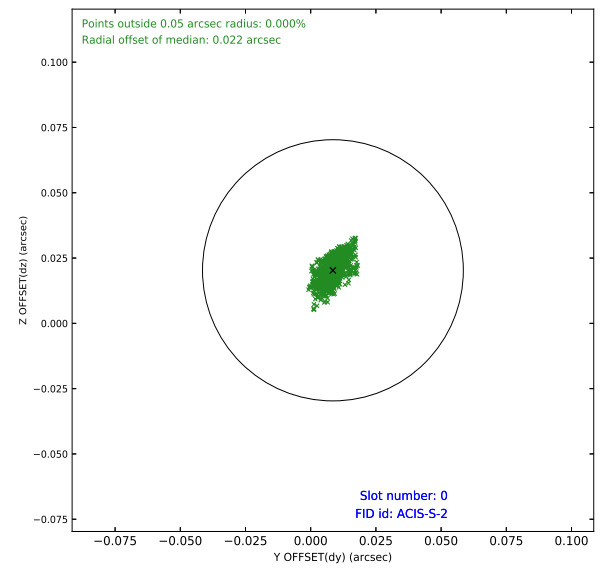
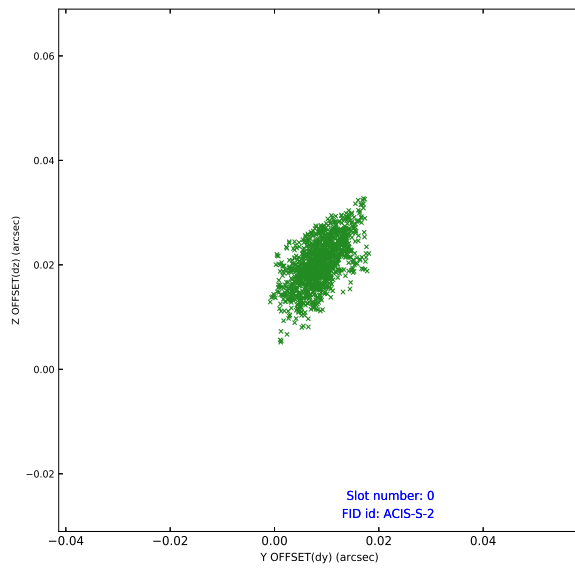


2.4.5 Slot 7

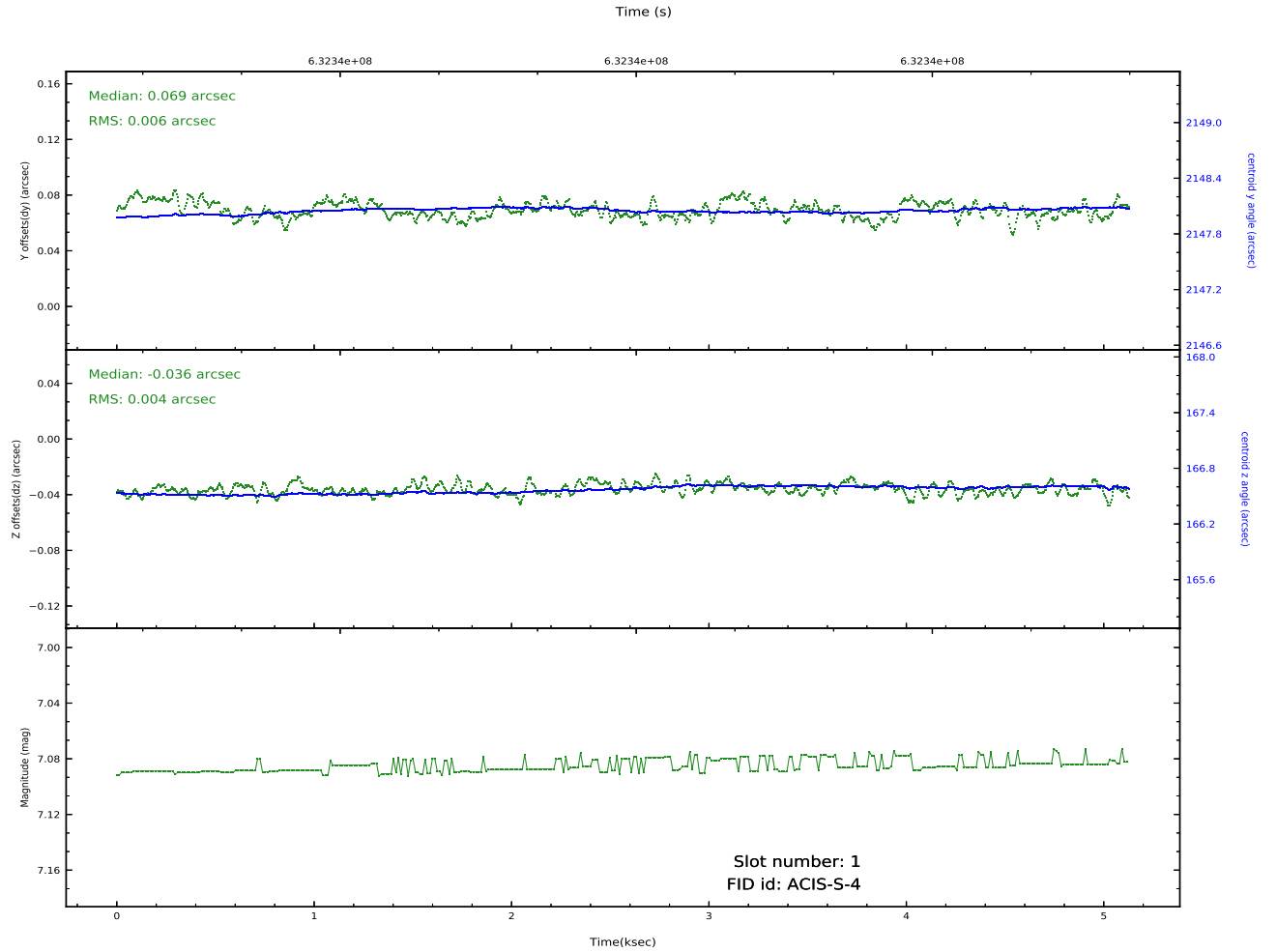
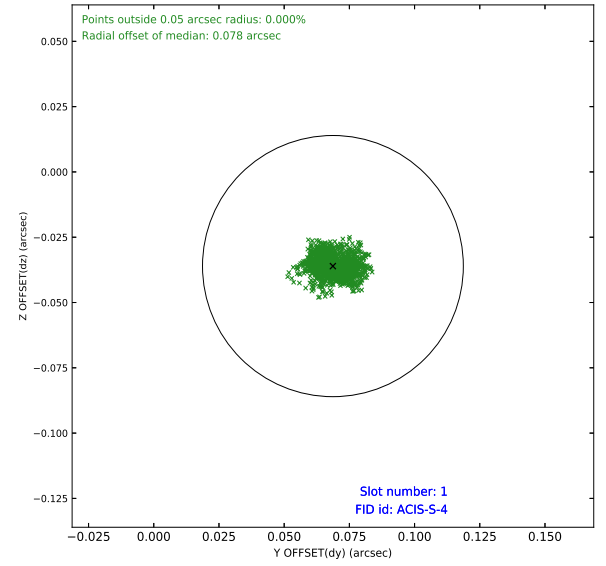
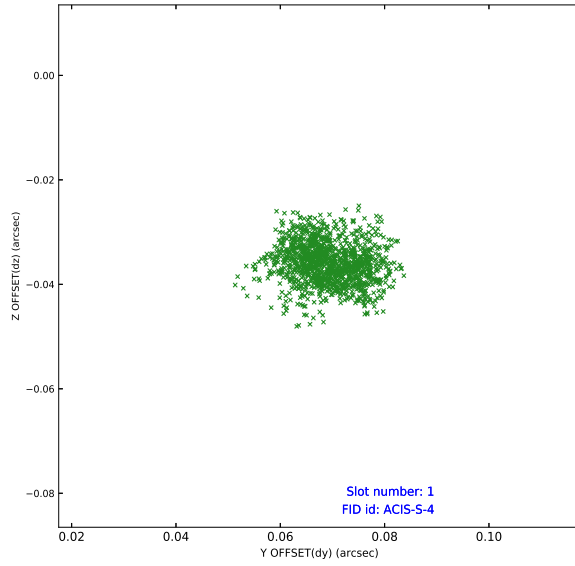


2.5 FID Slots

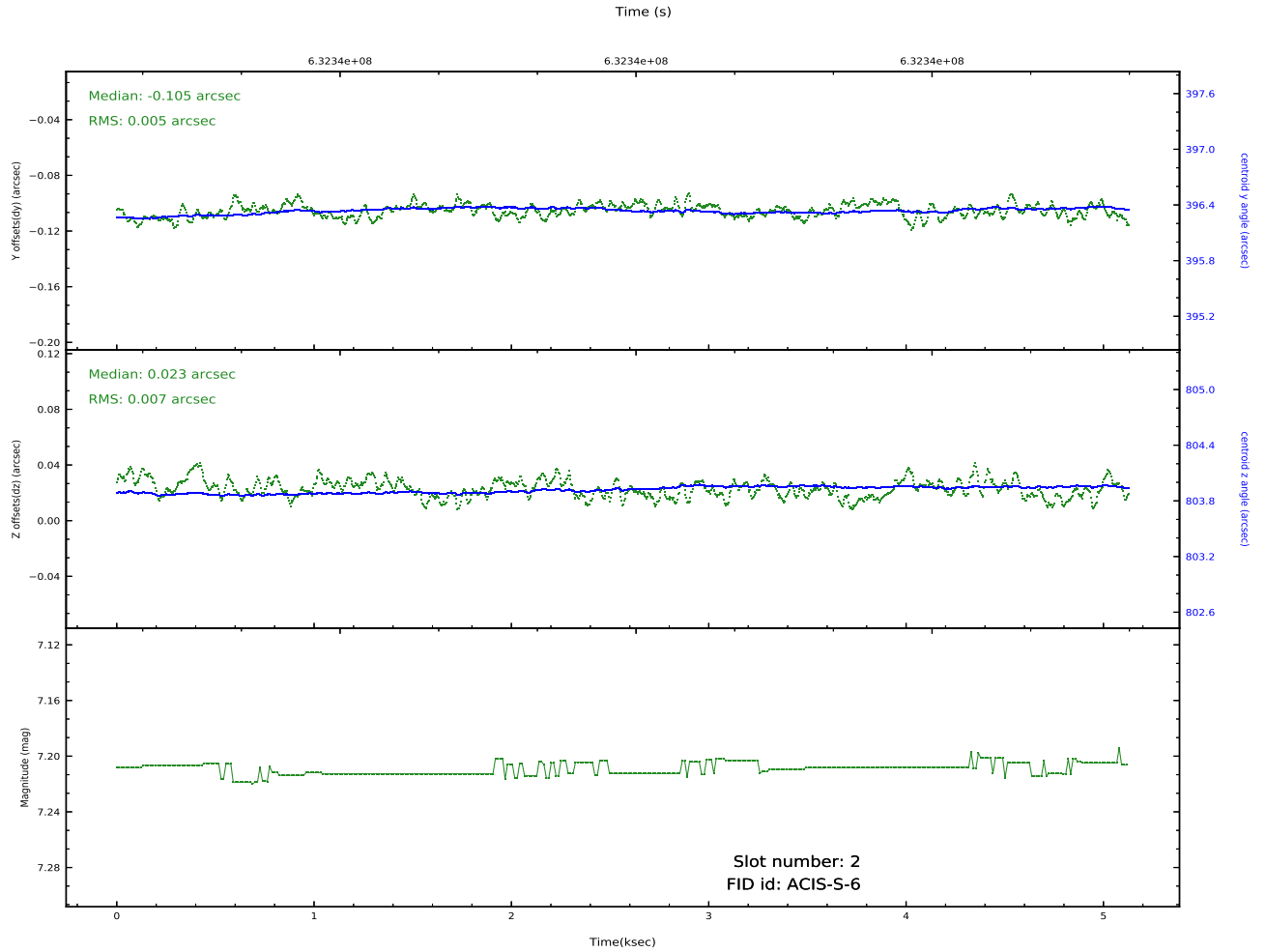
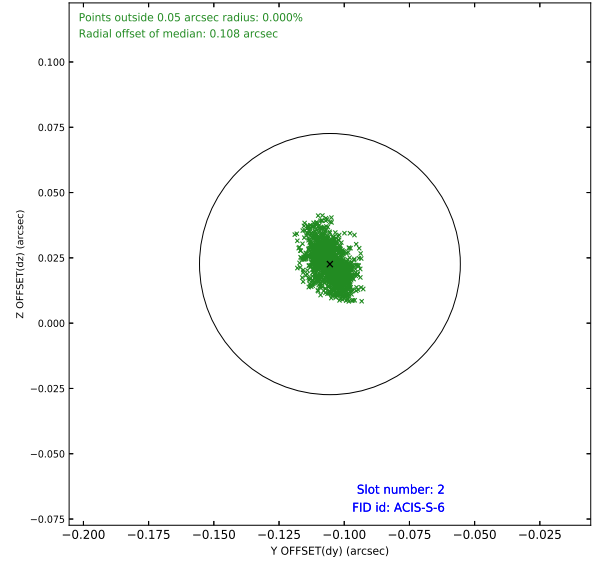
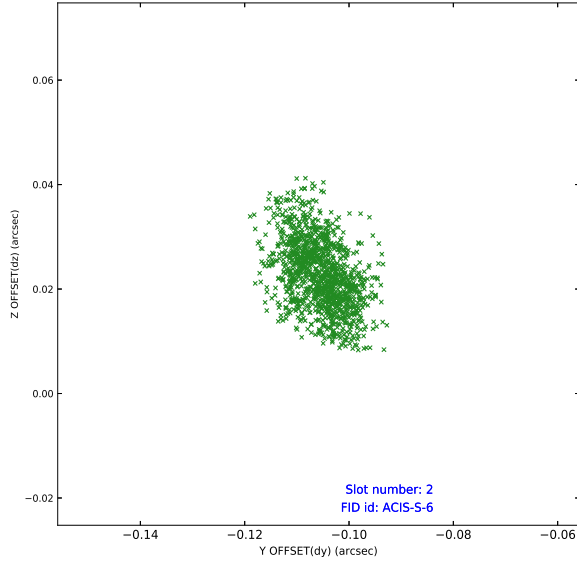
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1111489481926

A.2 Comments