

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20350 - L2 Version 2
Chandra X-Ray Center

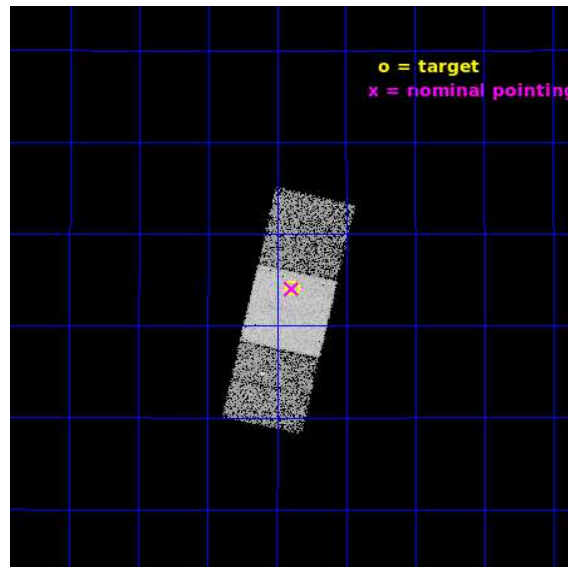
L2 Processing Date : Oct 25 2020

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1 Front

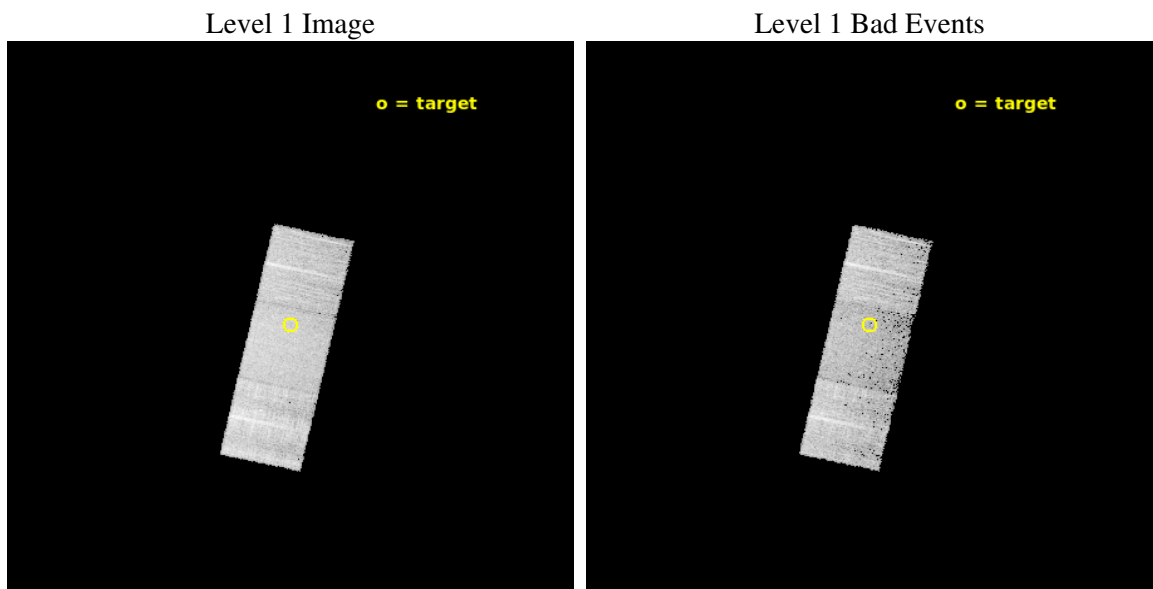
seq_num	601416	Sequence number
obs_id	20350	Observation id
title	X-ray Ionized Nebulae in Nearby Dwarf Galaxies	Proposal title
observer	Richard Plotkin	Principal investigator
object	SDSS J000953.09+154404.8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	2.47125	Observer's specified target RA [deg]
dec_targ	15.734667	Observer's specified target Dec [deg]
ra_nom	2.4727779253131	Nominal RA [deg]
dec_nom	15.734097551645	Nominal Dec [deg]
roll_nom	102.65120978585	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8072.4000622034	Sum of GTIs [s]
livetime	7966.9282125762	Livetime [s]
ontime6	8069.2590819597	Sum of GTIs [s]
ontime7	8072.4000622034	Sum of GTIs [s]
ontime8	8072.4000622034	Sum of GTIs [s]
l2events	38958	Number of level 2 events



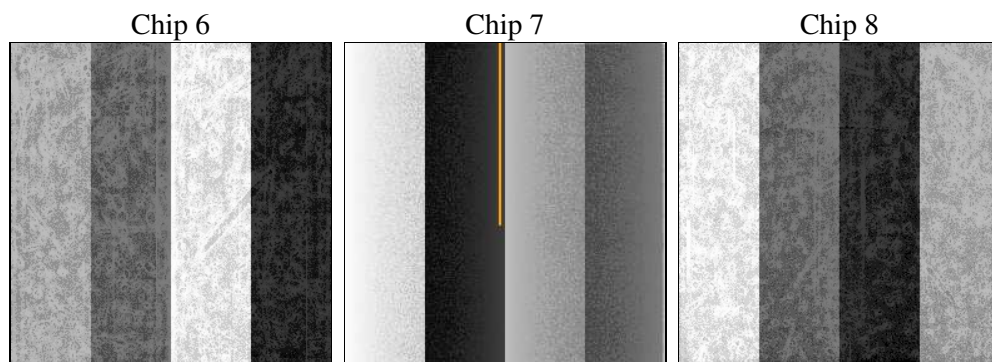
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	8072.4000622034	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	8069.2590819597	Sum of GTIs [s]
date	2020-10-26T01:01:53	Date and time of file creation	ontime7	8072.4000622034	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	8072.4000622034	Sum of GTIs [s]
			l1events	183917	Number of level 1 events

2.1.4 Events

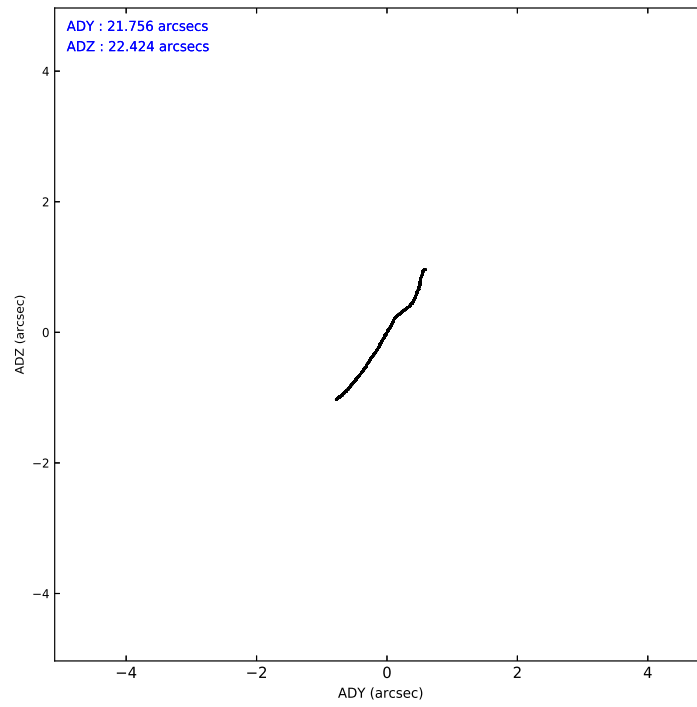
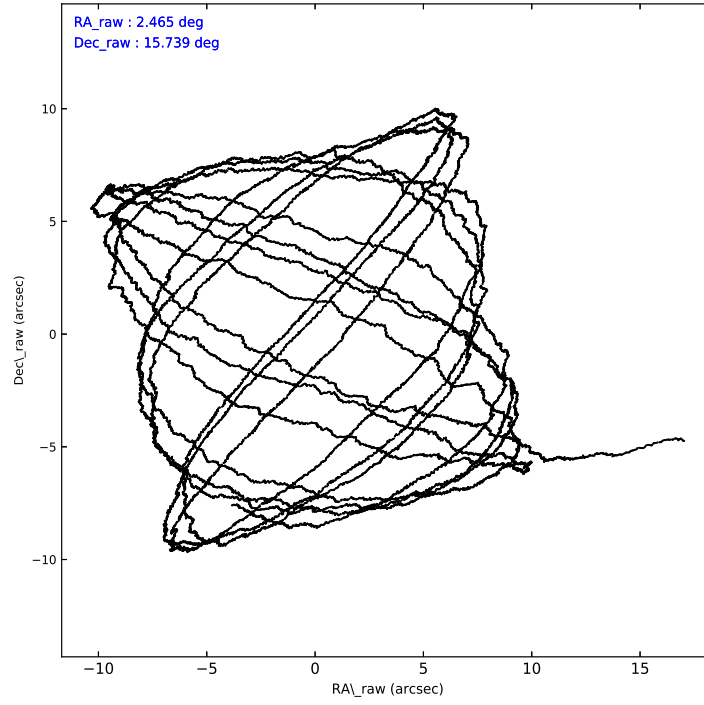
	ccd 6	ccd 7	ccd 8
level 1 events	53296	60329	70292
rejected events	47135	31695	50158
rejected %	88%	52%	71%

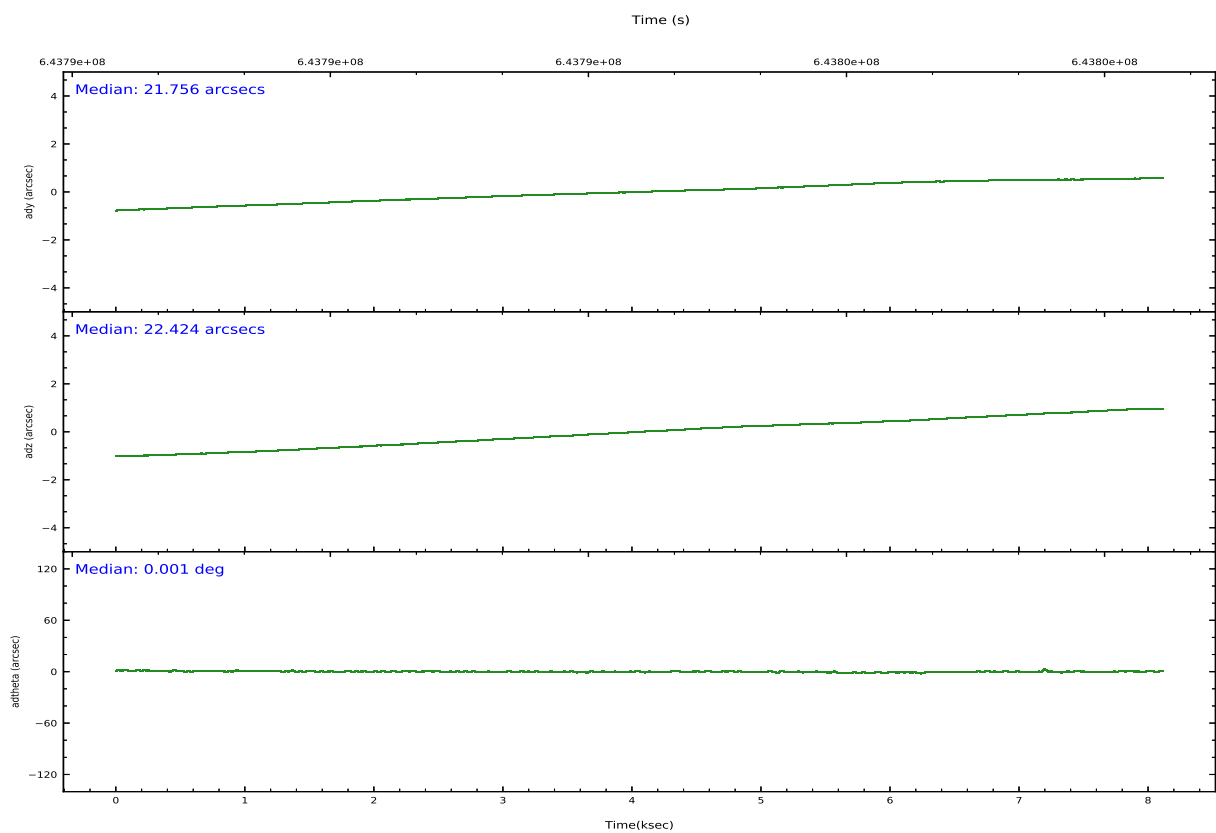
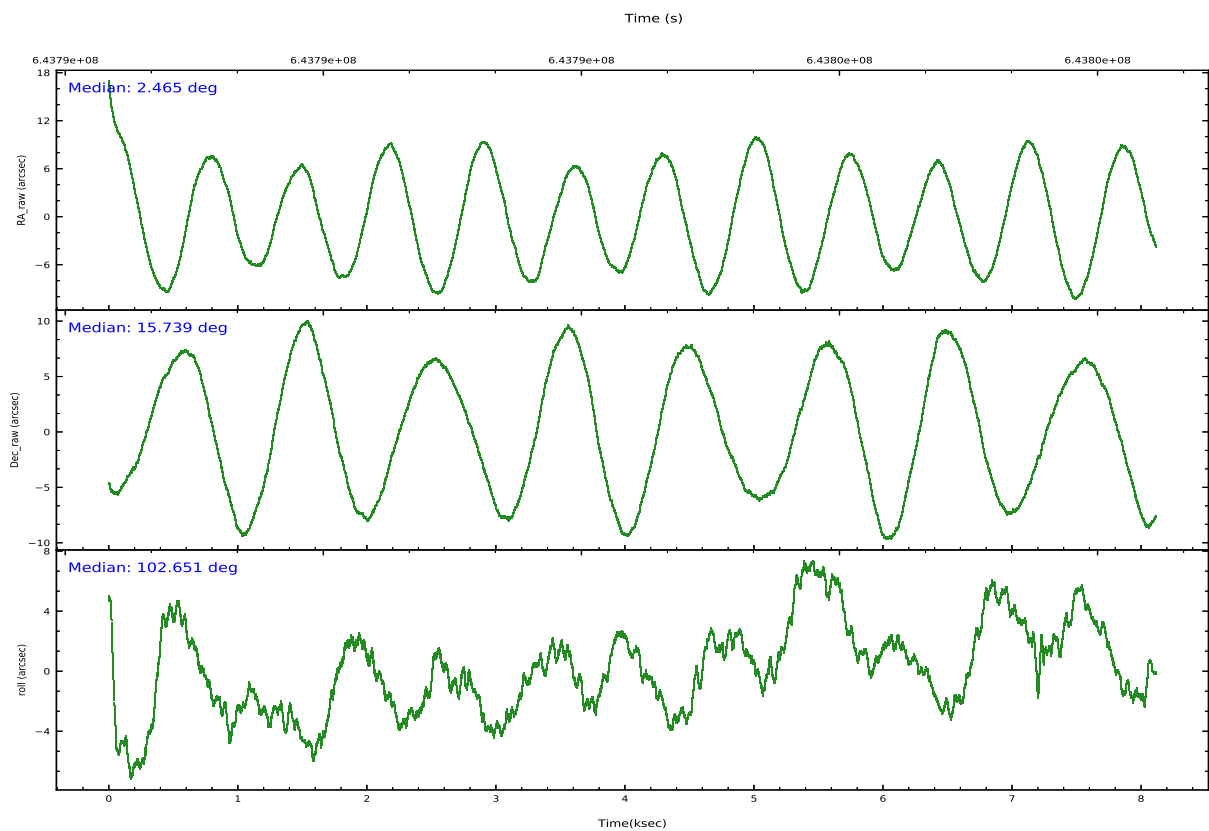
	ccd 6	ccd 7	ccd 8
grade 0 events	2152	2762	5824
	4%	4%	8%
grade 1 events	27	111	65
	0%	0%	0%
grade 2 events	1439	6420	4864
	2%	10%	6%
grade 3 events	624	2351	2170
	1%	3%	3%
grade 4 events	608	2363	2080
	1%	3%	2%
grade 5 events	2244	6246	3526
	4%	10%	5%
grade 6 events	1340	14762	5244
	2%	24%	7%
grade 7 events	44862	25314	46519
	84%	41%	66%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	2.484394	2.4727779253131	CCD I2 on	N	N
[deg] Pointing Dec	15.718902	15.734097551645	CCD I3 on	N	N
[deg] Pointing Roll	102.496439	102.65120978585	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	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	643790454.184000	643789069.25973	CCD S5 on	N	N
Observation start date	2018-05-27T06:39:45	2018-05-27T06:17:49	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	643798454.184000	643799432.52284	On-chip summing requested	N	N
Observation end date	2018-05-27T08:53:05	2018-05-27T09:10:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



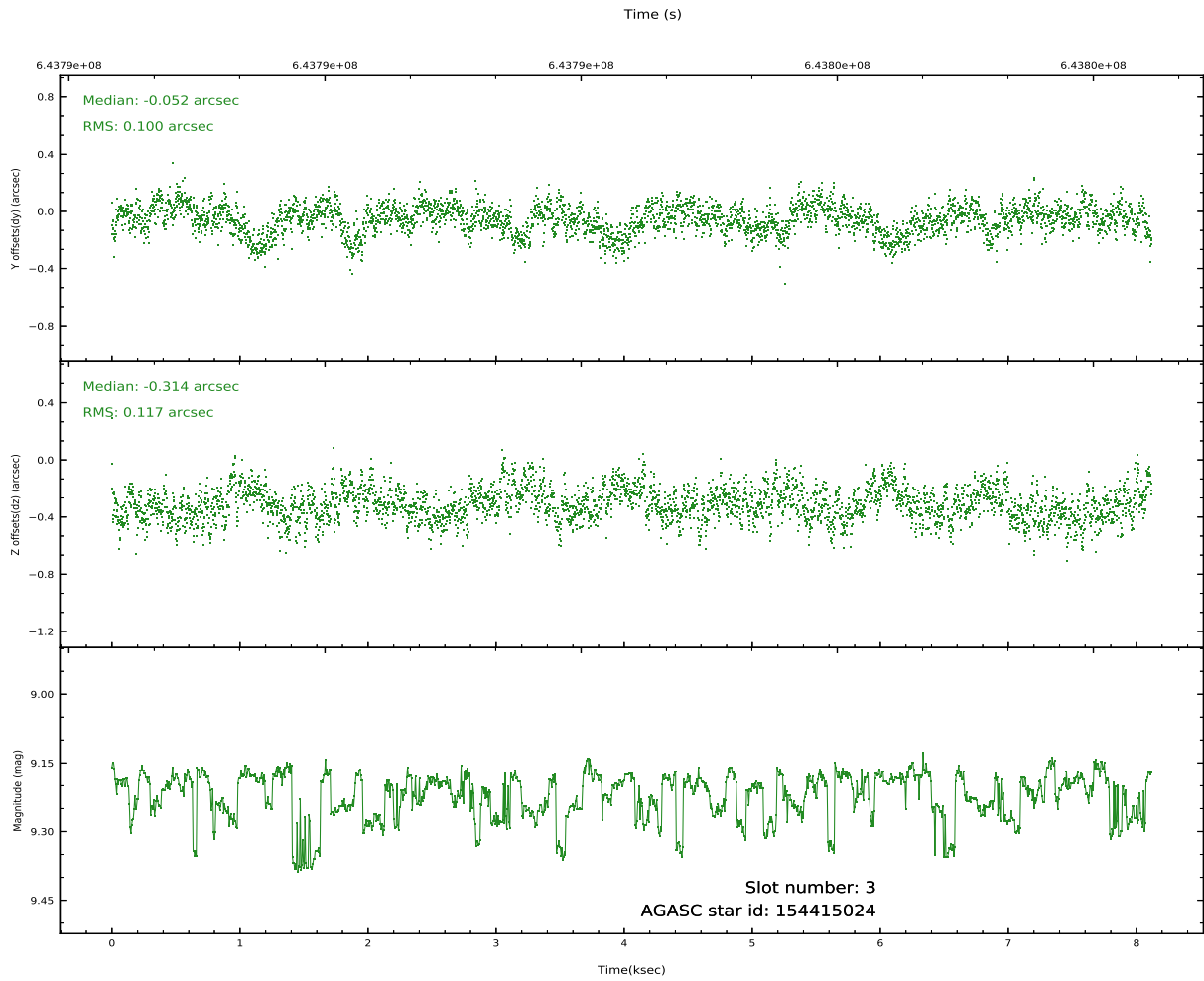
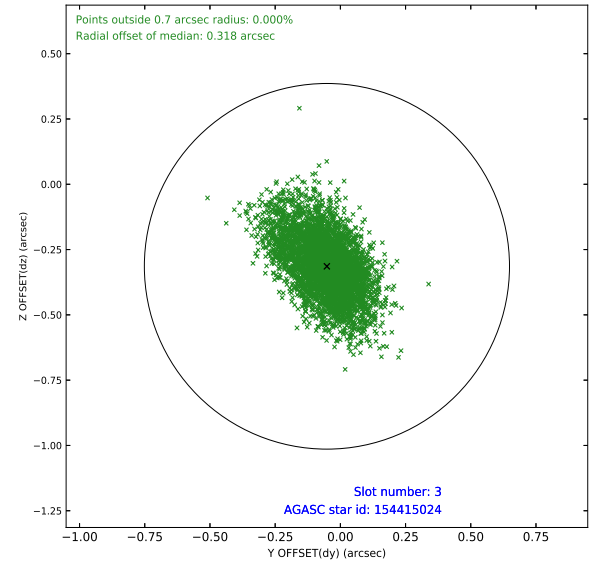
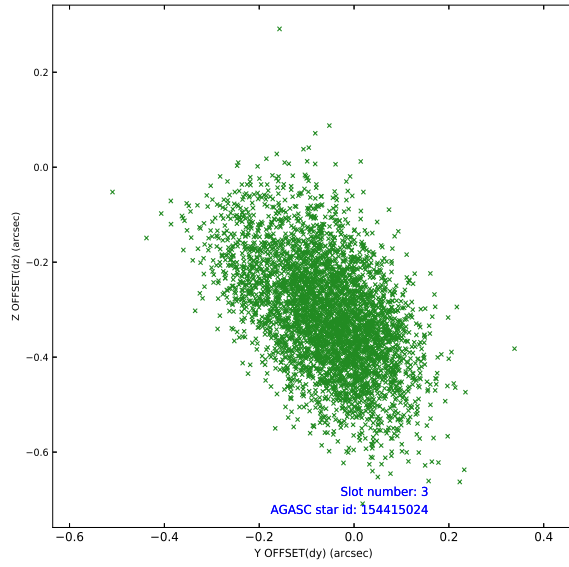


Slot Statistics

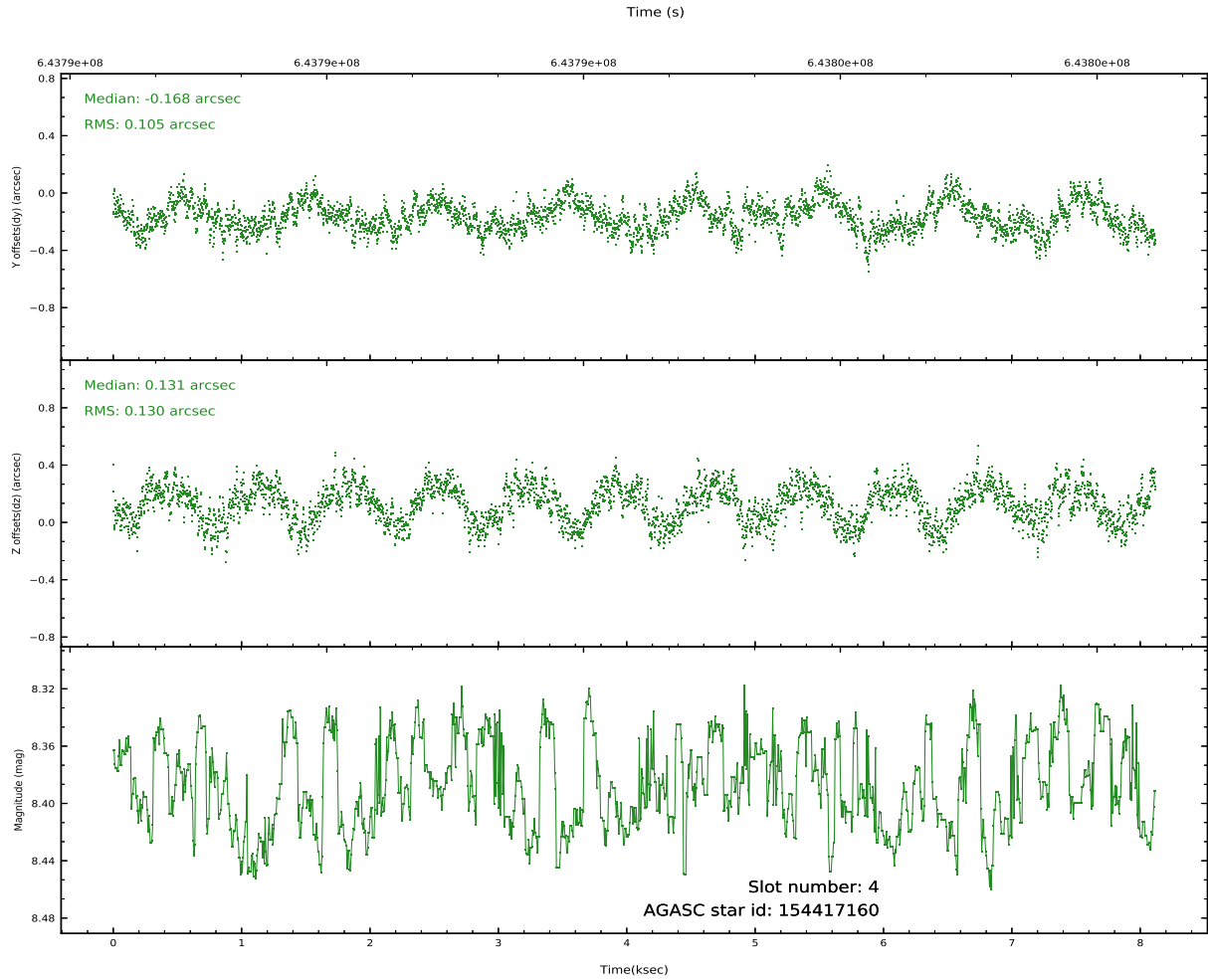
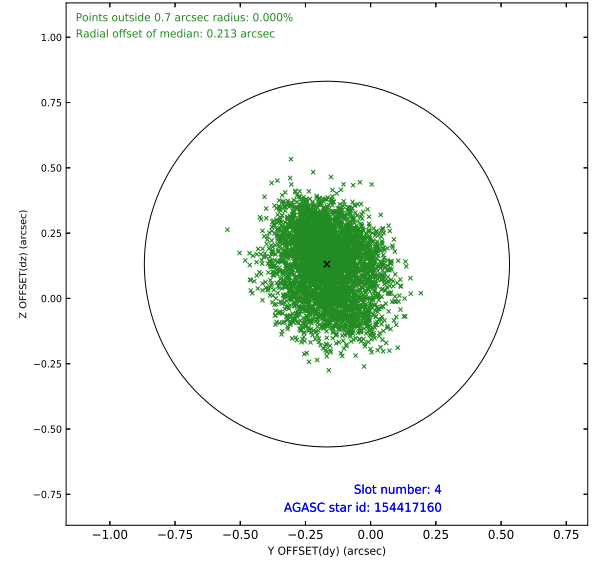
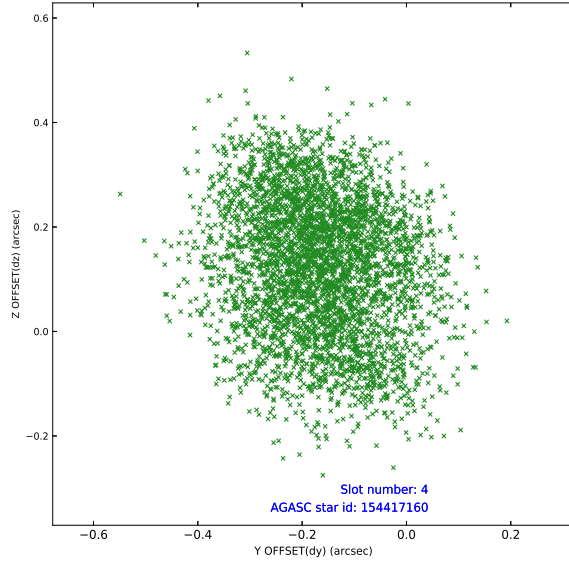
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.04	1980	1.000	0.063	0.034	0.011	0.026	0.000000	0.000000	-775.00	-1743
1	FID		ACIS-S-4	7.15	1978	1.000	0.043	-0.096	0.009	0.017	0.000000	0.000000	2138.12	163
2	FID		ACIS-S-6	7.31	1980	1.000	-0.134	0.069	0.012	0.026	0.000000	0.000000	387.91	802
3	GUIDE	used	154415024	9.21	3958	1.000	-0.052	-0.314	0.160	0.277	2.298710	15.402751	-971.56	875
4	GUIDE	used	154417160	8.39	3958	1.000	-0.168	0.131	0.184	0.276	2.623213	15.231776	-1817.10	-89
5	GUIDE	used	154535416	9.03	3954	1.000	-0.088	-0.048	0.160	0.284	2.915919	16.454589	2264.46	-2028
6	GUIDE	used	154544576	8.37	3958	1.000	0.185	0.115	0.122	0.216	3.202183	15.560408	-1090.02	-2308
7	GUIDE	used	154546408	9.47	3953	1.000	0.119	0.118	0.222	0.358	2.801627	15.282058	-1772.98	-736

2.4 Star Slots

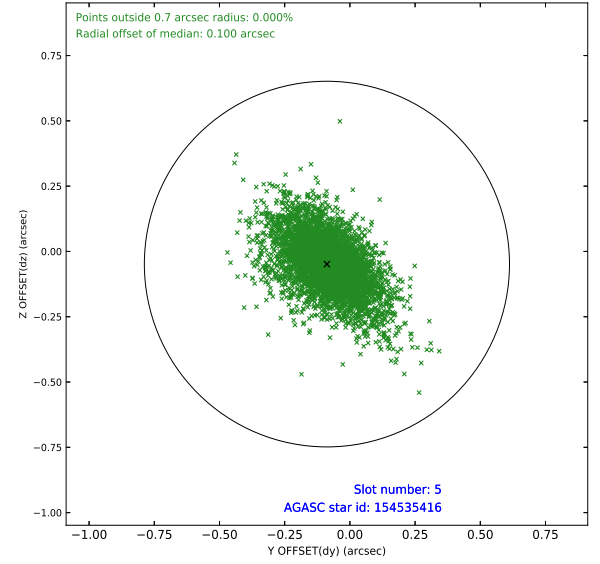
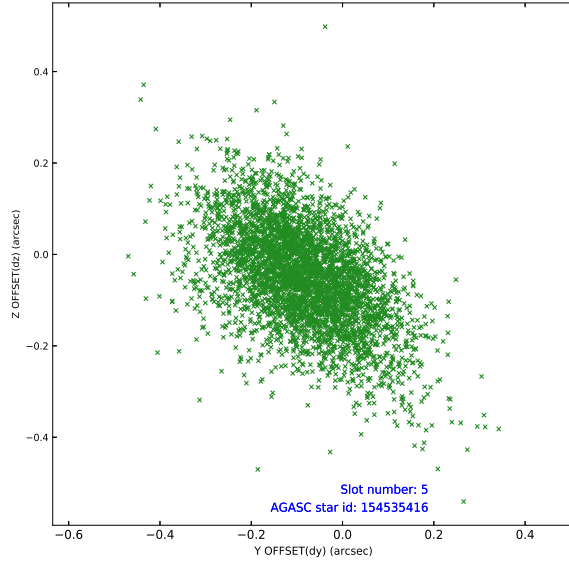
2.4.1 Slot 3



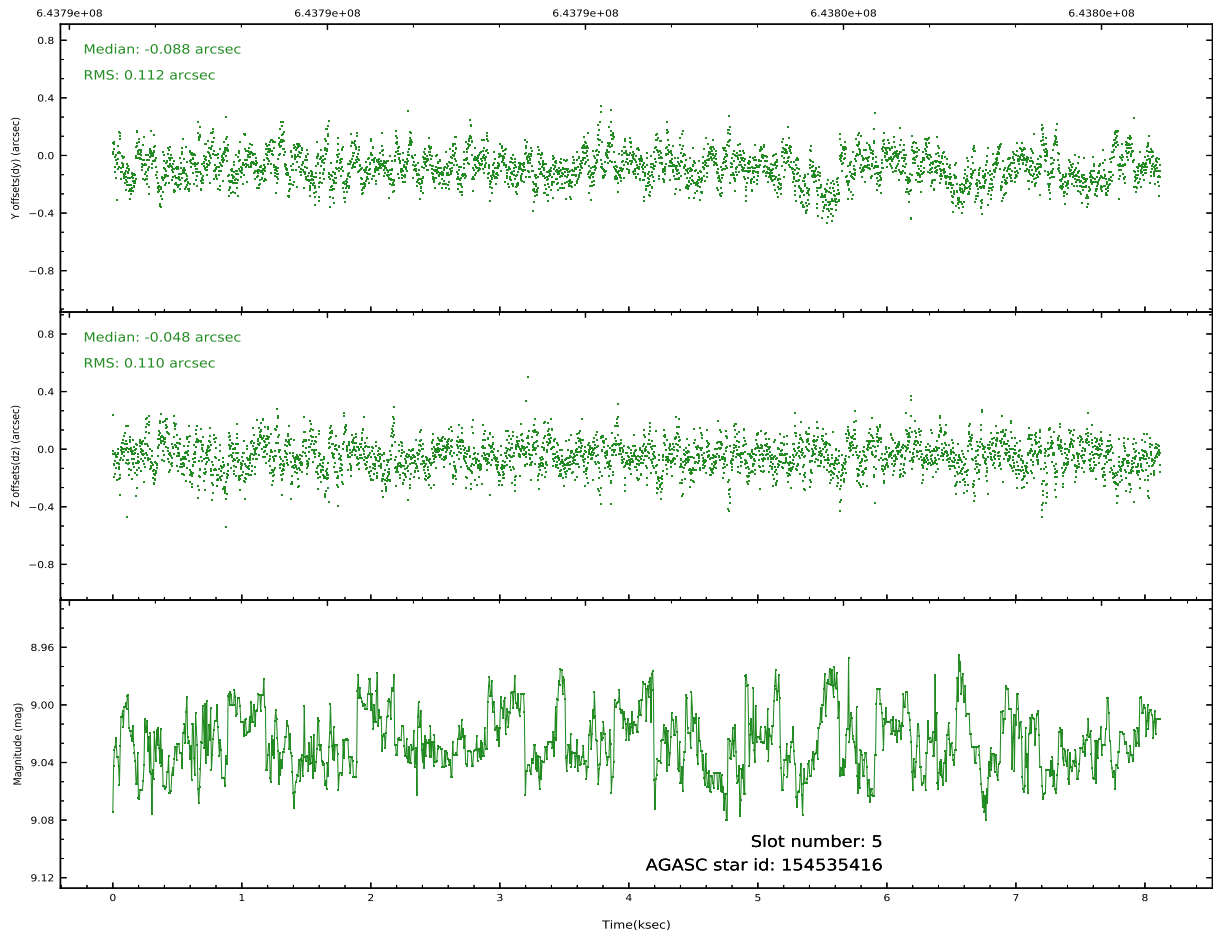
2.4.2 Slot 4



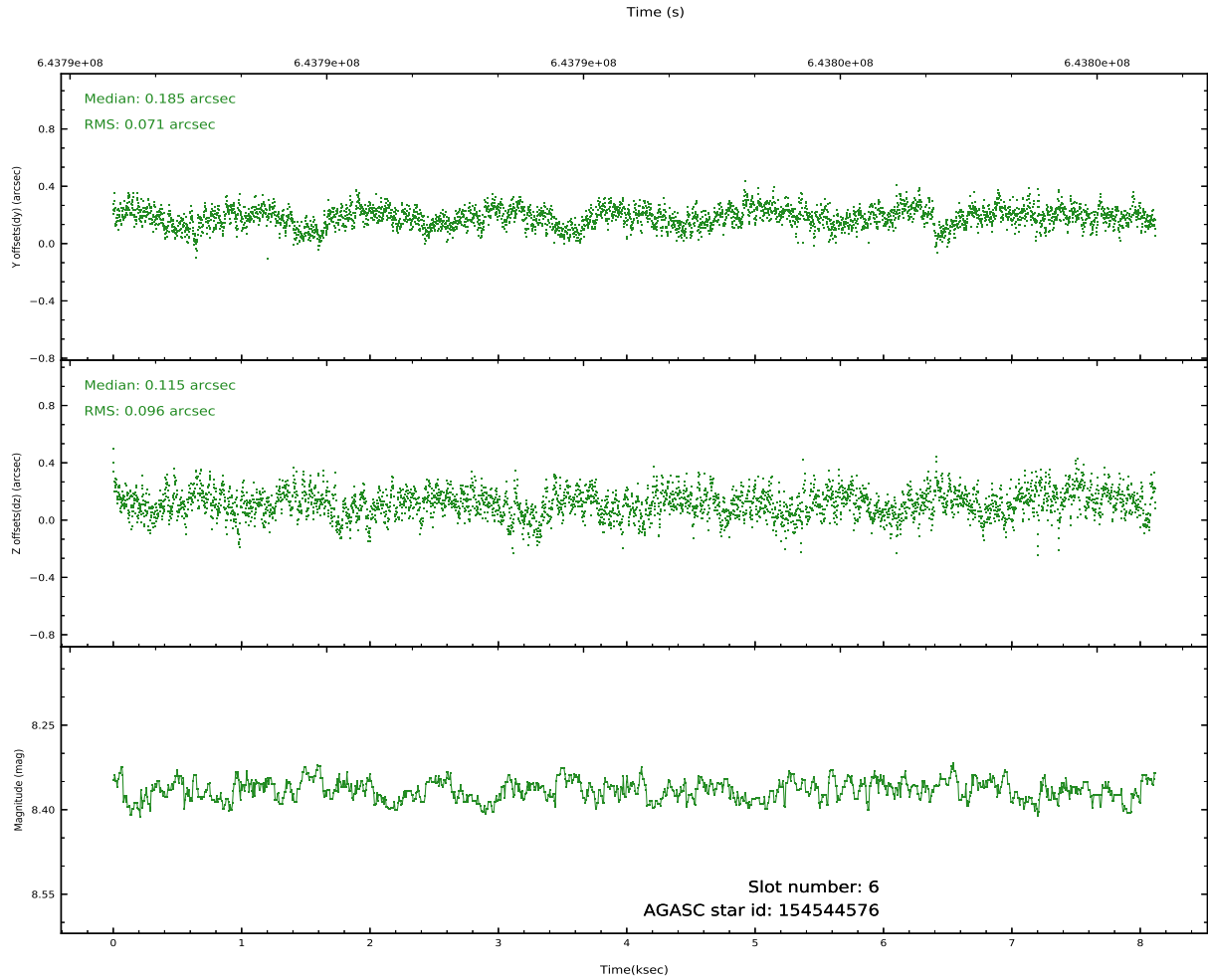
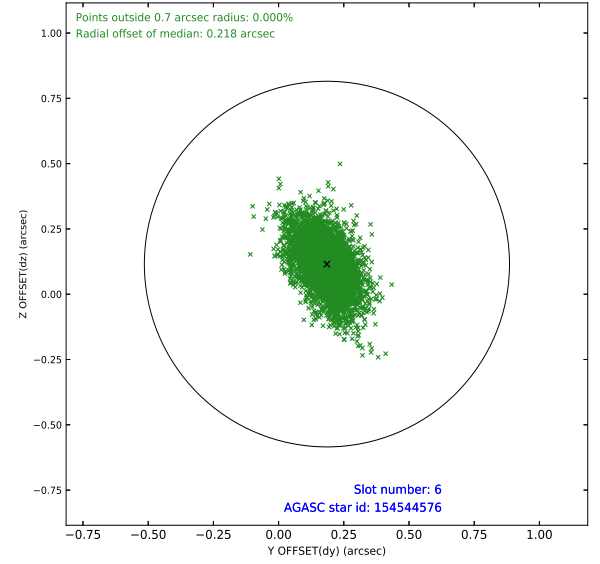
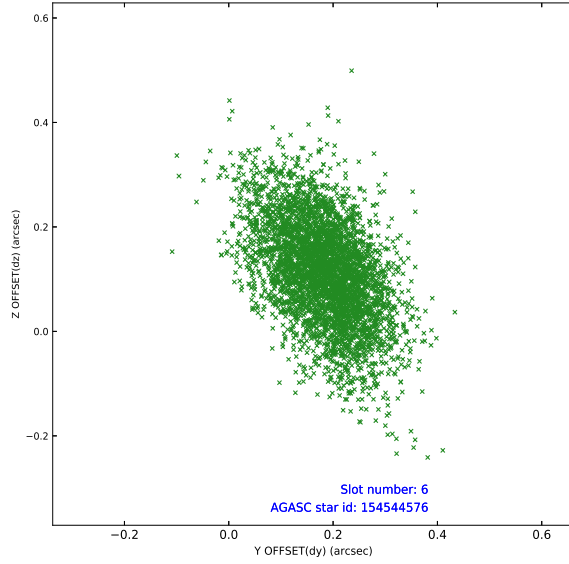
2.4.3 Slot 5



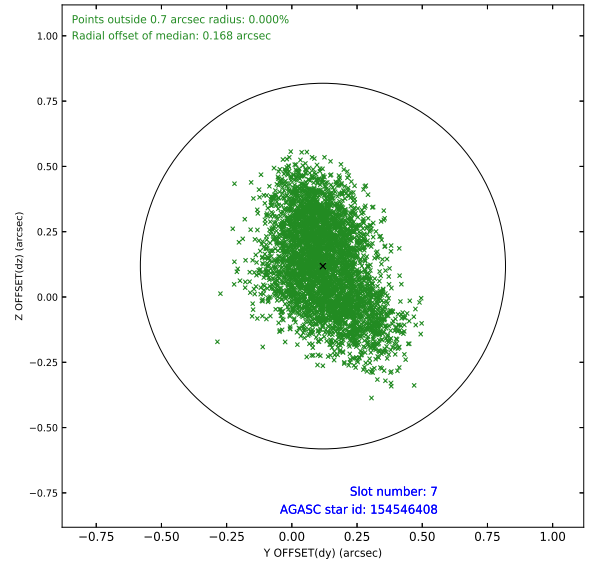
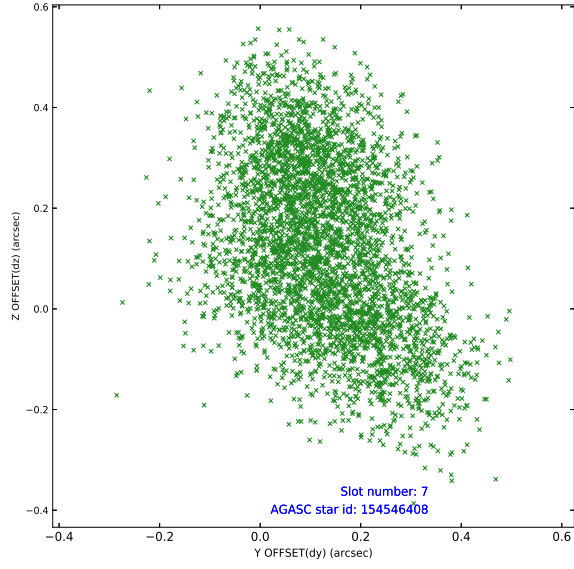
Time (s)



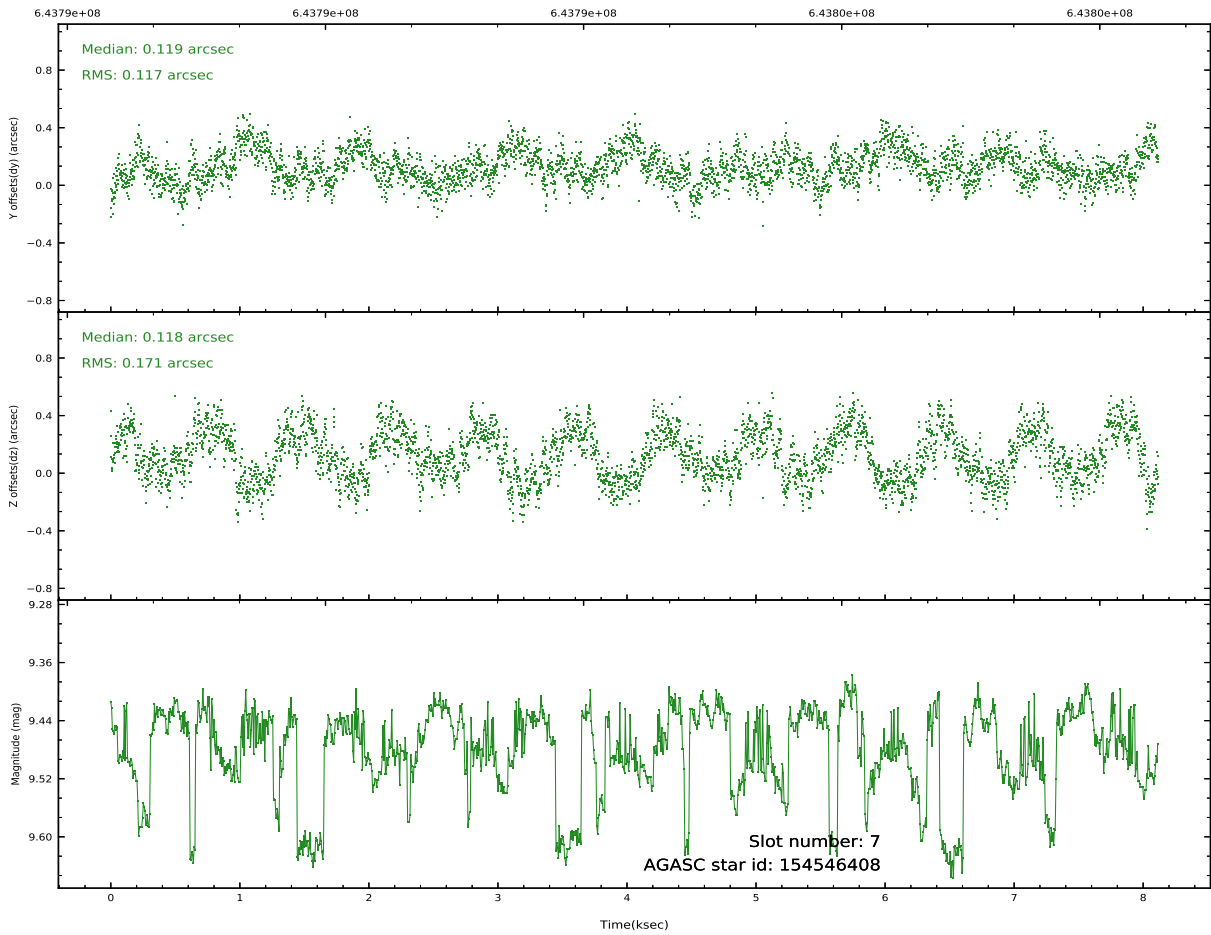
2.4.4 Slot 6



2.4.5 Slot 7

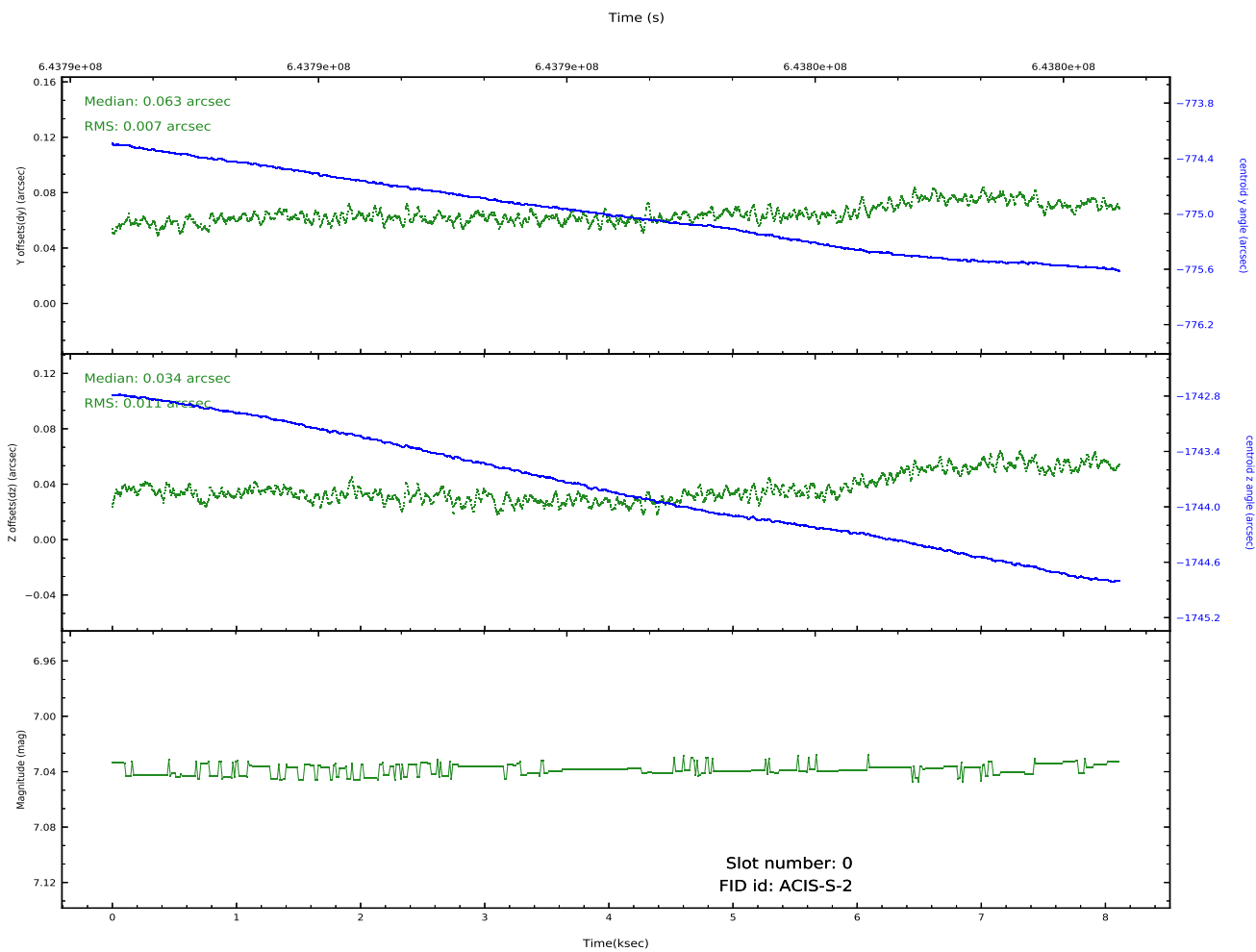
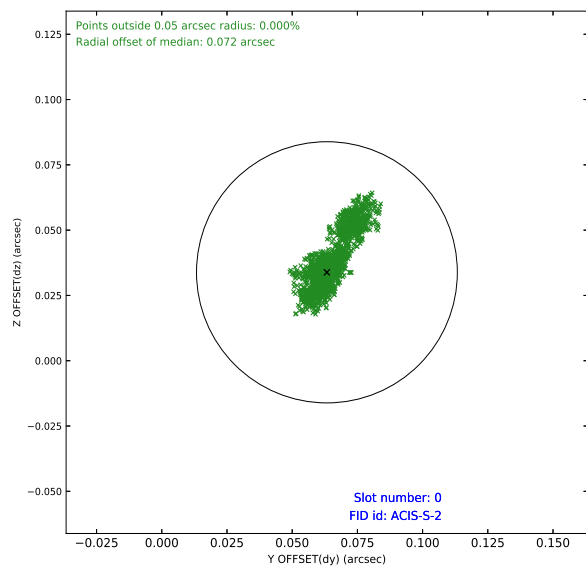
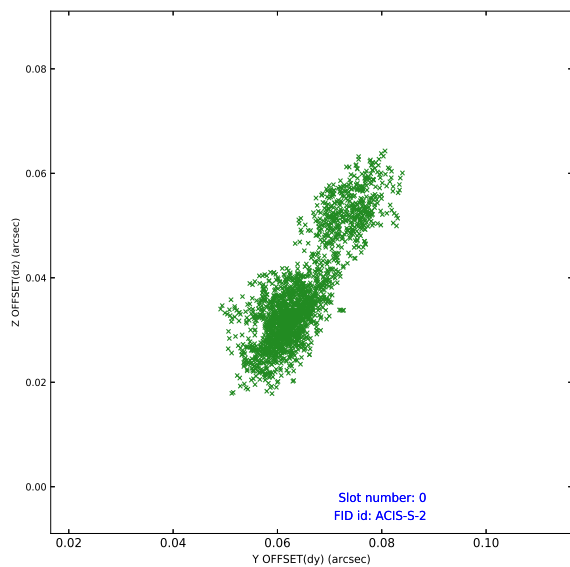


Time (s)

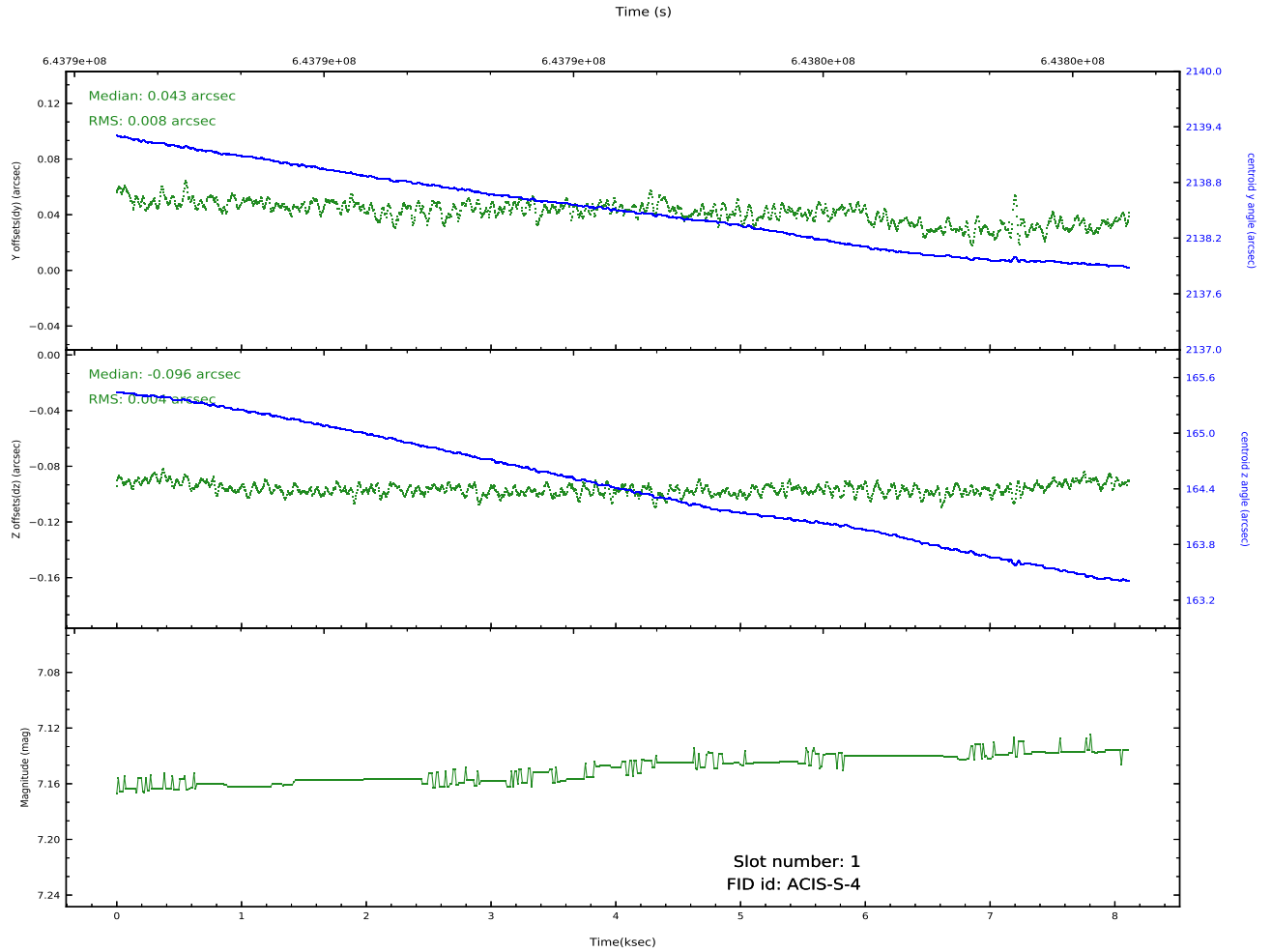
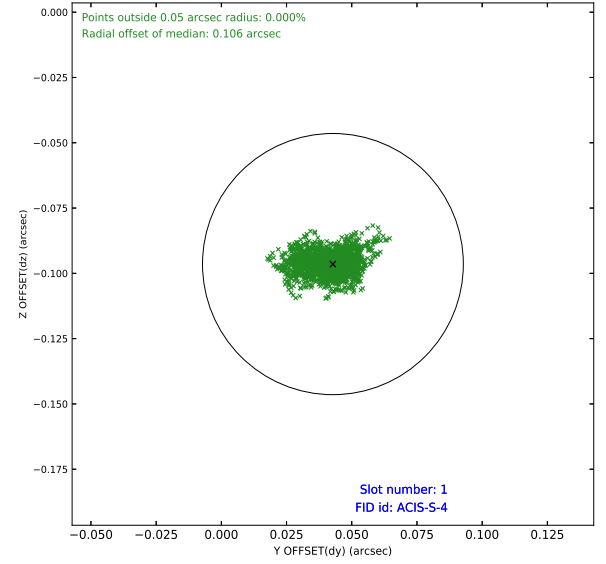
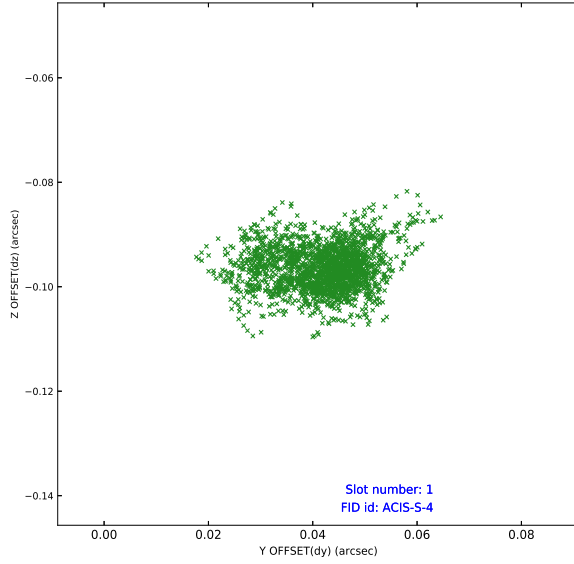


2.5 FID Slots

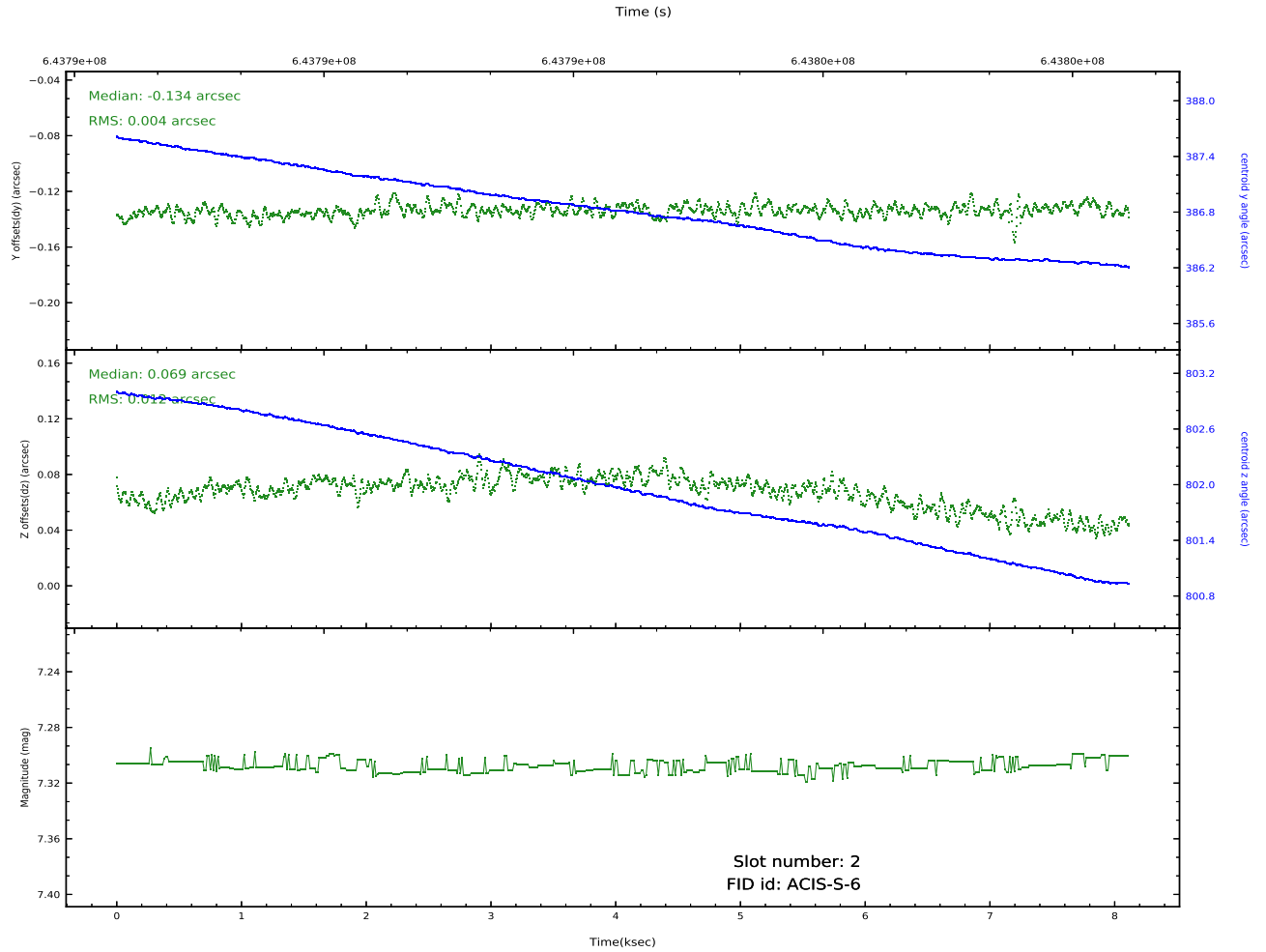
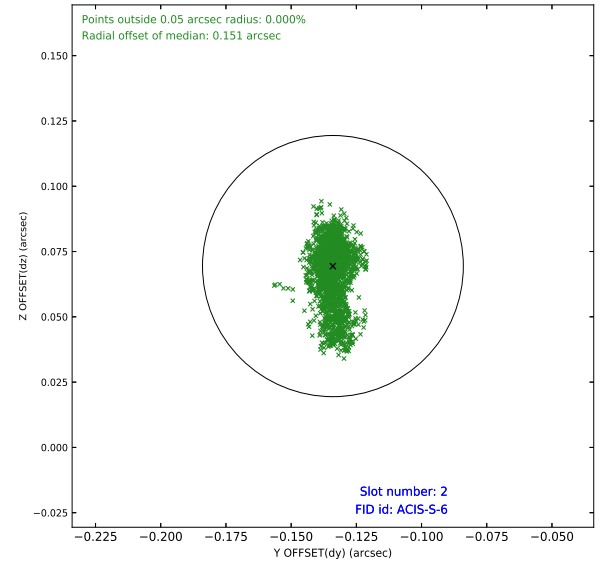
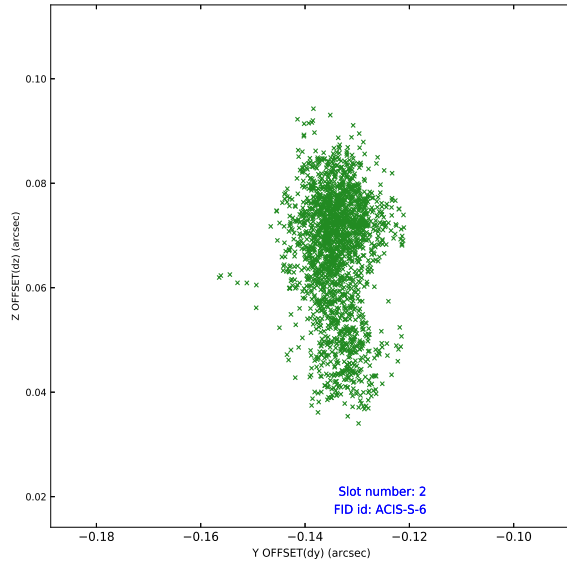
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0724000622034

A.2 Comments