

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20377 - L2 Version 2
Chandra X-Ray Center

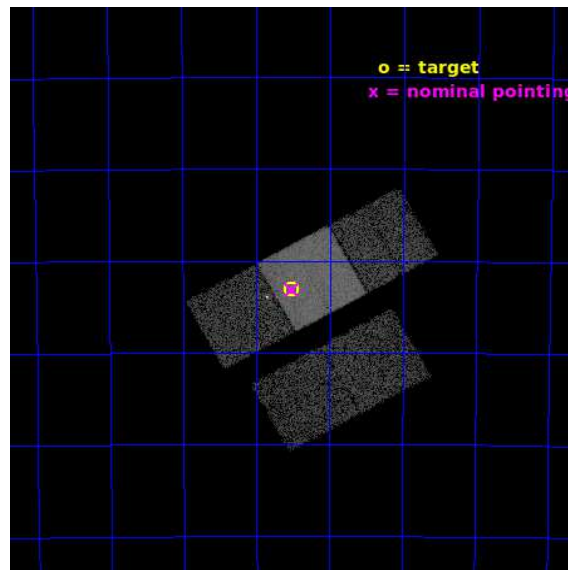
L2 Processing Date : Oct 27 2020

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1 Front

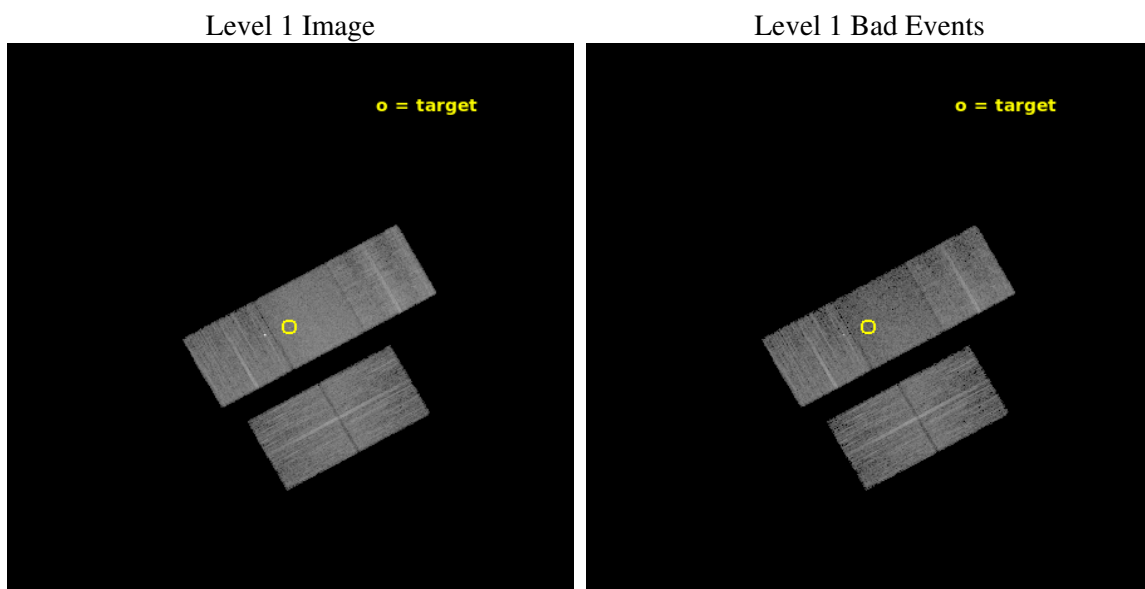
seq_num	703482	Sequence number
obs_id	20377	Observation id
title	HEAVILY REDDENED, LUMINOUS TYPE 1 QSOs: A TRANSITION POPULATION EMERGING FROM THE DUST	Proposal title
observer	Enrico Piconcelli	Principal investigator
object	VHSJ2115-5913	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	318.881667	Observer's specified target RA [deg]
dec_targ	-59.218806	Observer's specified target Dec [deg]
ra_nom	318.878547658	Nominal RA [deg]
dec_nom	-59.219148519399	Nominal Dec [deg]
roll_nom	330.91934198445	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9054.5076298714	Sum of GTIs [s]
livetime	8936.2038218556	Livetime [s]
ontime2	9054.3434698582	Sum of GTIs [s]
ontime3	9054.4255498648	Sum of GTIs [s]
ontime6	9054.4665899277	Sum of GTIs [s]
ontime7	9054.5076298714	Sum of GTIs [s]
ontime8	9051.2434697151	Sum of GTIs [s]
l2events	65804	Number of level 2 events



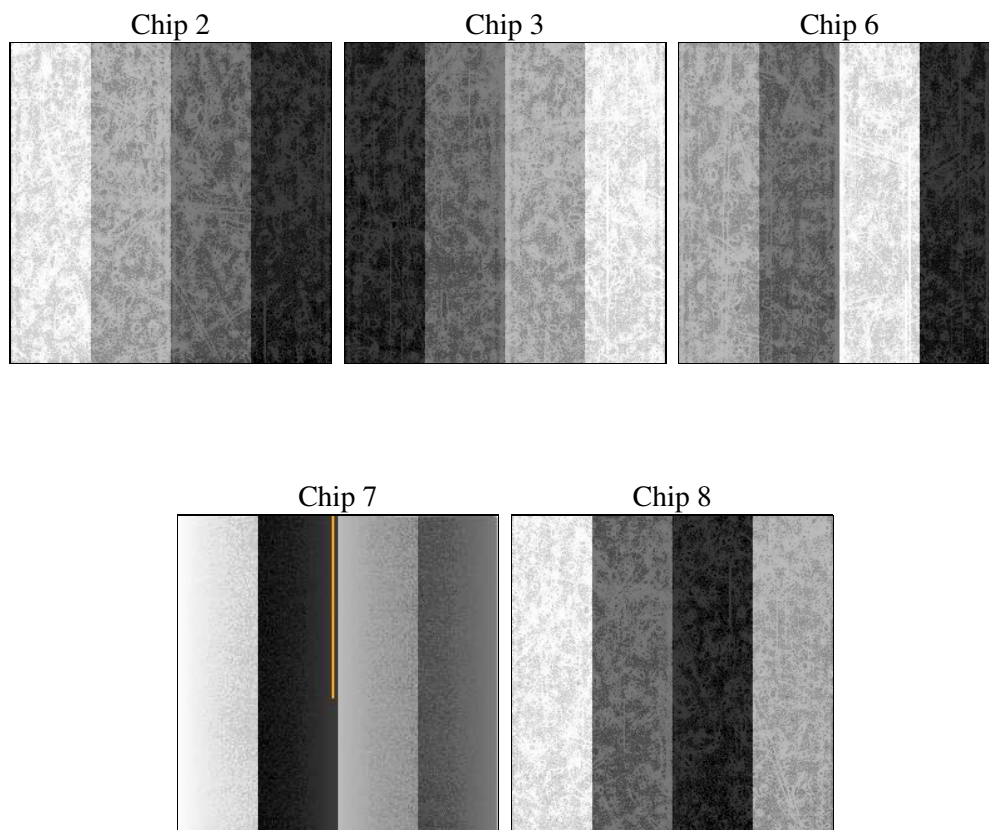
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9054.5076298714	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	9054.3434698582	Sum of GTIs [s]
date	2020-10-27T16:11:37	Date and time of file creation	ontime3	9054.4255498648	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9054.4665899277	Sum of GTIs [s]
			ontime7	9054.5076298714	Sum of GTIs [s]
			ontime8	9051.2434697151	Sum of GTIs [s]
			l1events	394325	Number of level 1 events

2.1.4 Events

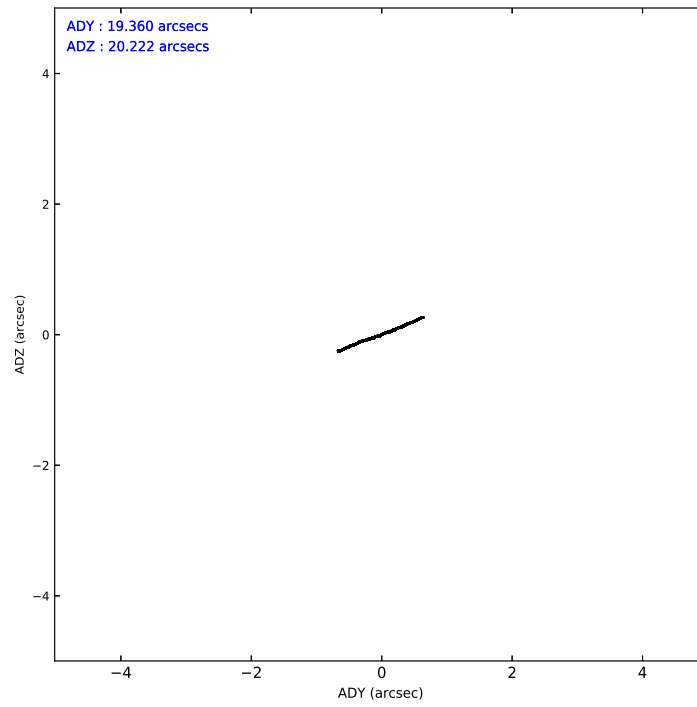
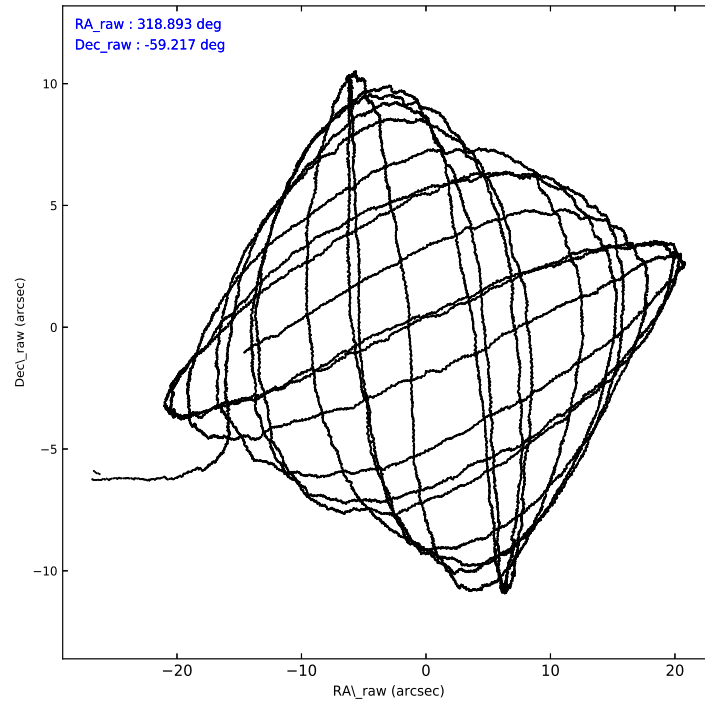
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	69485	69358	76878	88013	90591
rejected events	62243	62288	66420	50066	67069
rejected %	89%	89%	86%	56%	74%

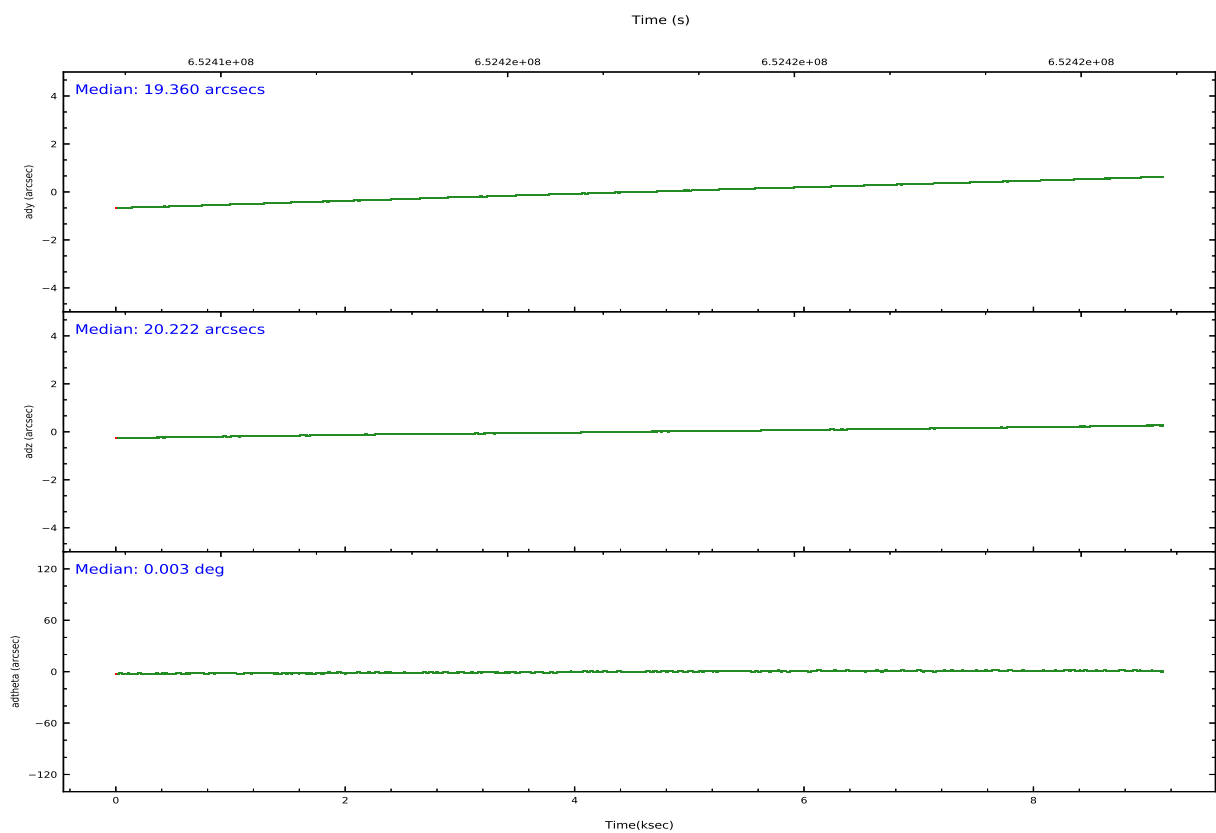
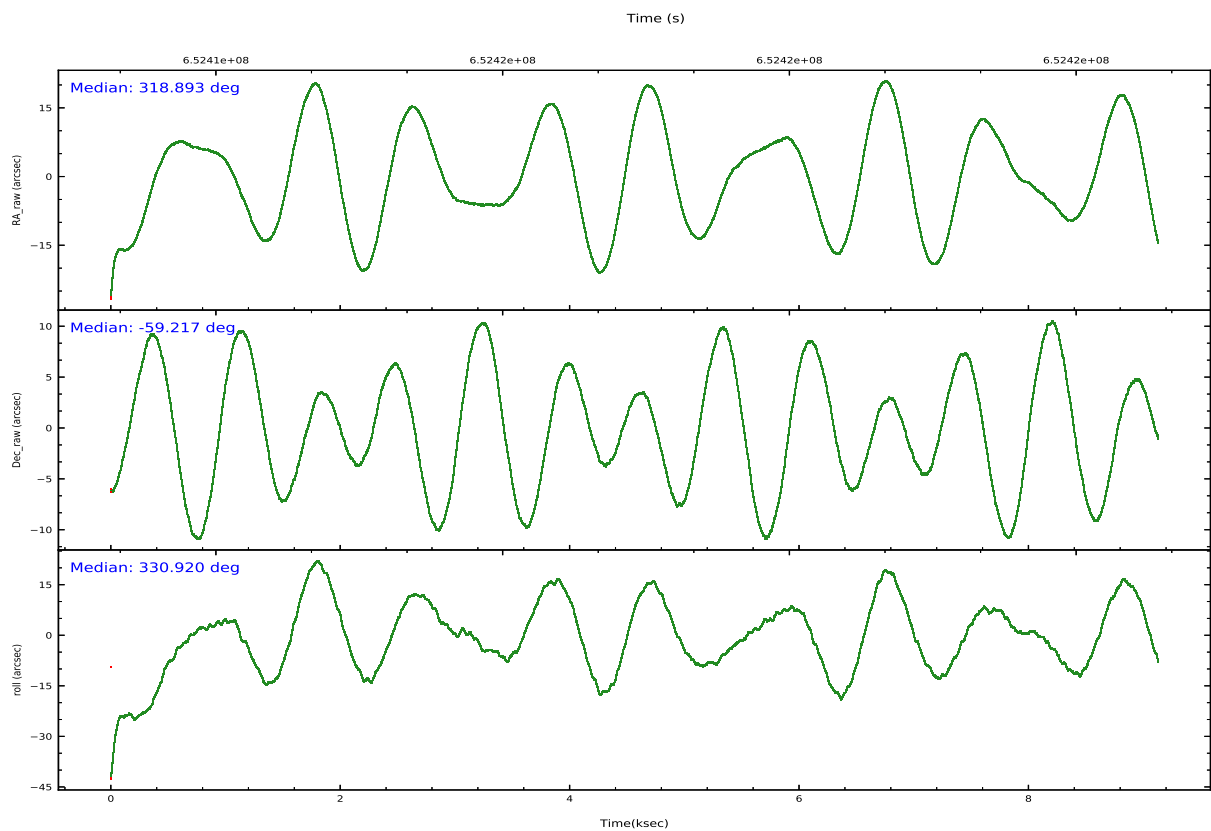
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2497	2501	4412	3143	6538
	3%	3%	5%	3%	7%
grade 1 events	43	47	200	127	71
	0%	0%	0%	0%	0%
grade 2 events	1808	1501	2301	8005	5843
	2%	2%	2%	9%	6%
grade 3 events	778	787	878	2991	2358
	1%	1%	1%	3%	2%
grade 4 events	748	757	812	2894	2271
	1%	1%	1%	3%	2%
grade 5 events	2554	3108	3202	8579	4871
	3%	4%	4%	9%	5%
grade 6 events	1413	1526	2058	20926	6520
	2%	2%	2%	23%	7%
grade 7 events	59644	59131	63015	41348	62119
	85%	85%	81%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	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	318.840063	318.878547658	CCD I2 on	O1	Y
[deg] Pointing Dec	-59.217665	-59.219148519399	CCD I3 on	O2	Y
[deg] Pointing Roll	330.723578	330.91934198445	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	Y	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	O3	Y
[s] Observation start time (MET)	652411714.184000	652410171.03306	CCD S5 on	N	N
Observation start date	2018-09-04T01:27:25	2018-09-04T01:02:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	652420714.184000	652421193.88372	On-chip summing requested	N	N
Observation end date	2018-09-04T03:57:25	2018-09-04T04:06:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



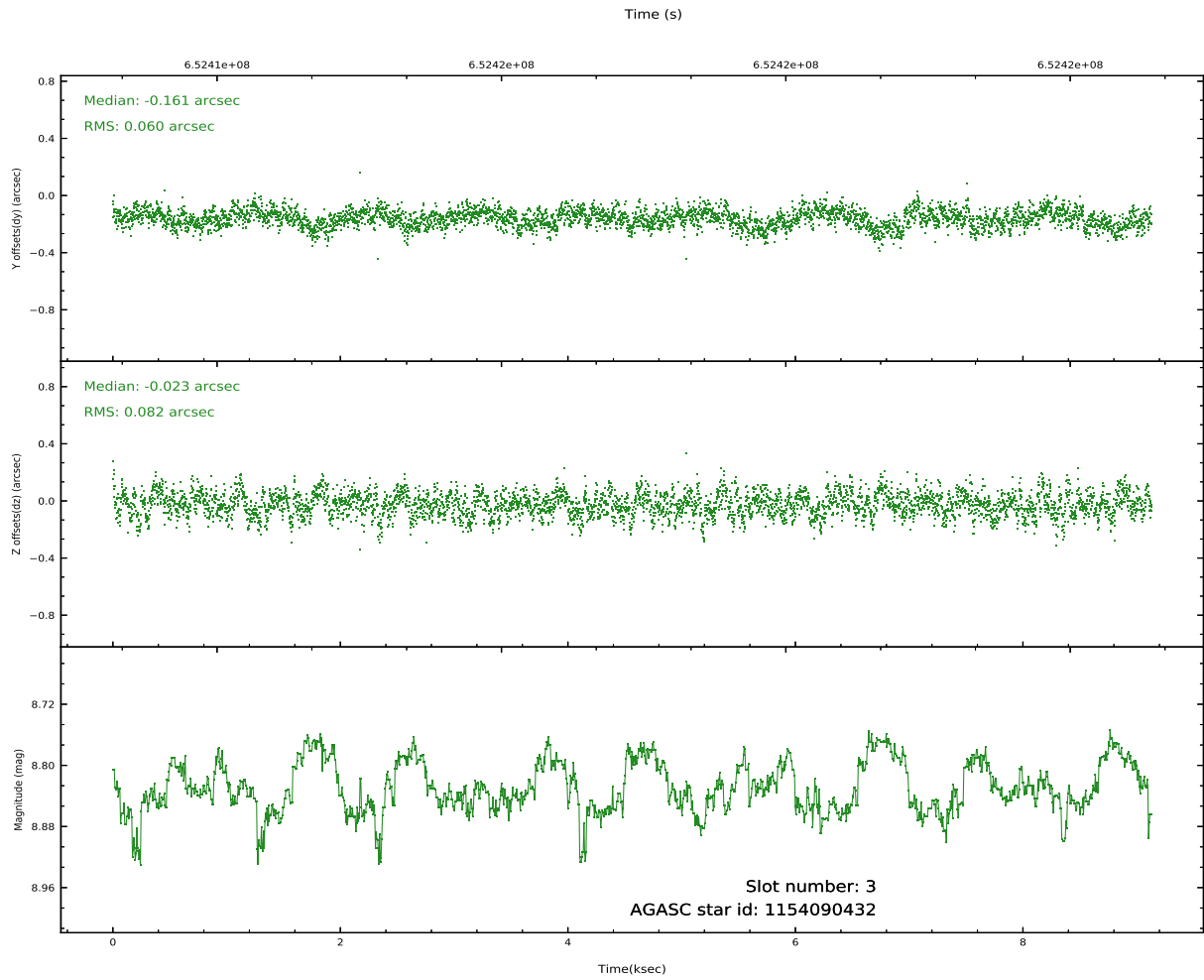
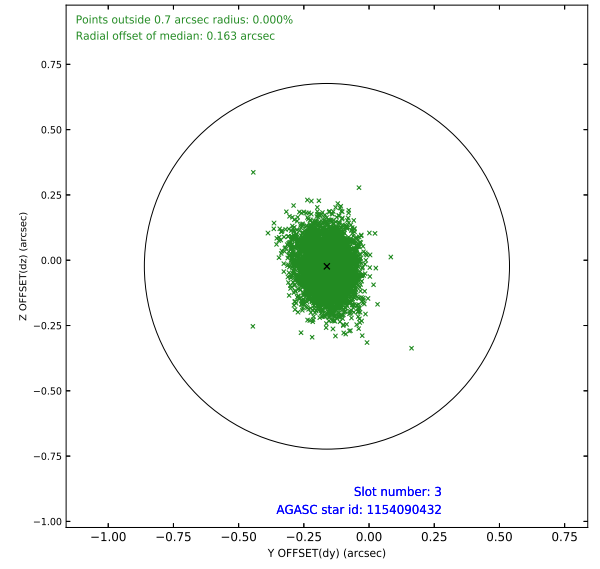
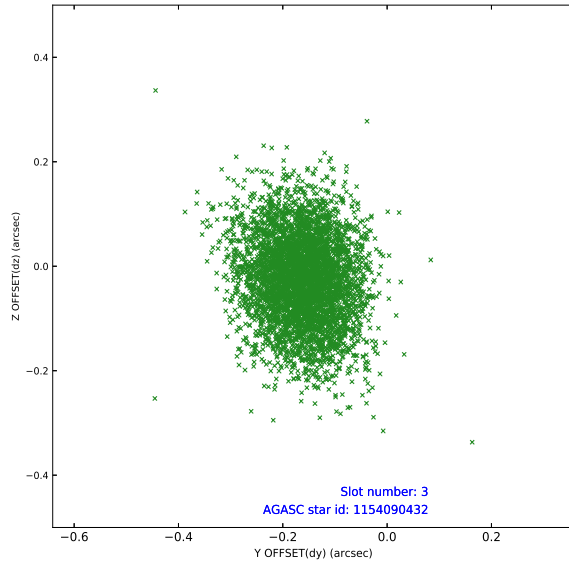


Slot Statistics

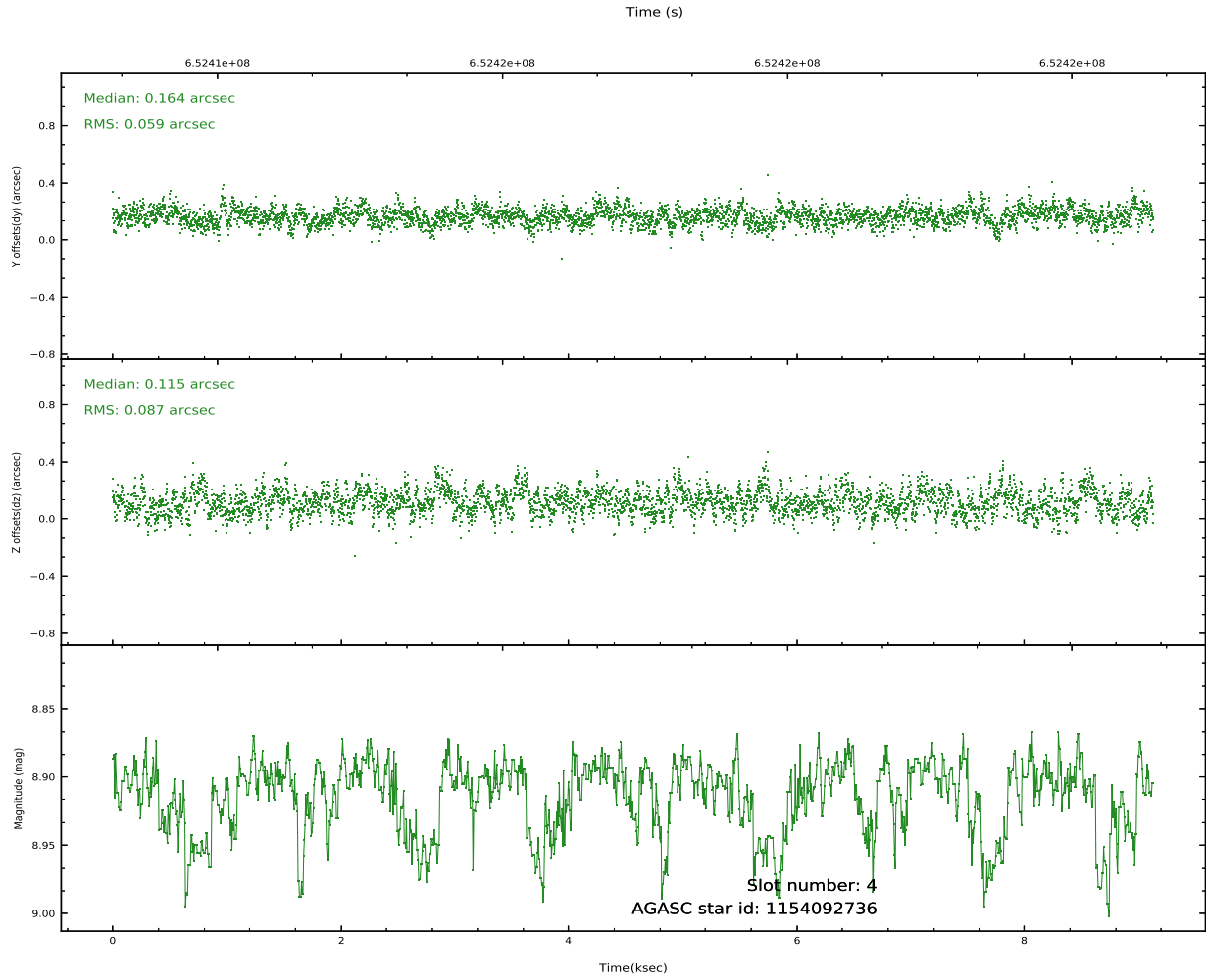
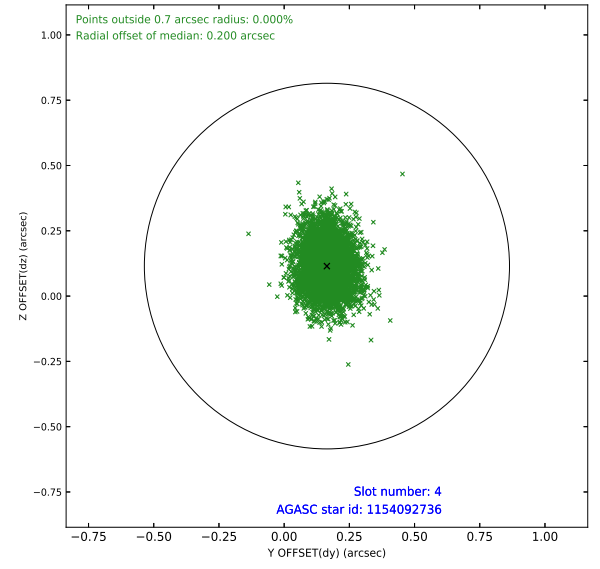
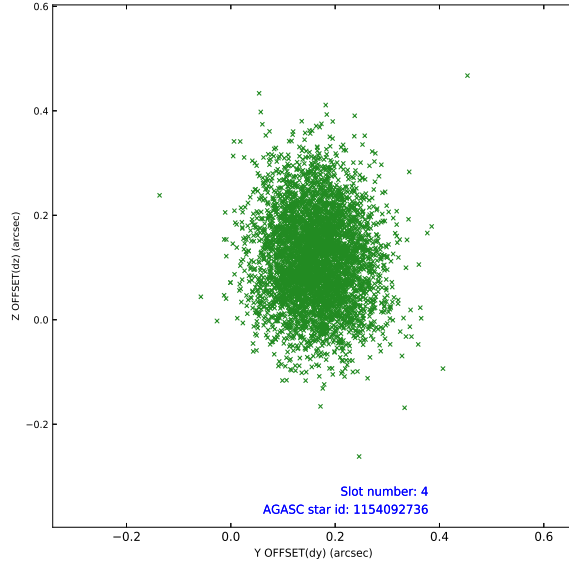
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2228	1.000	0.092	-0.103	0.008	0.013	0.000000	0.000000	-772.58	-1741
1	FID		ACIS-S-4	7.21	2228	1.000	0.165	-0.017	0.014	0.023	0.000000	0.000000	2140.75	165
2	FID		ACIS-S-5	7.20	2228	1.000	-0.289	0.128	0.017	0.023	0.000000	0.000000	-1824.79	160
3	GUIDE	used	1154090432	8.83	4454	1.000	-0.161	-0.023	0.108	0.176	319.117345	-58.771510	-332.35	1652
4	GUIDE	used	1154092736	8.91	4449	1.000	0.164	0.115	0.110	0.181	318.239509	-59.322012	-775.18	-871
5	GUIDE	used	1154093128	7.36	4455	1.000	-0.105	0.036	0.098	0.160	318.958531	-59.530643	740.54	-877
6	GUIDE	used	1154096688	7.31	4454	1.000	-0.017	-0.044	0.124	0.199	317.602188	-59.407740	-1632.08	-1724
7	GUIDE	used	1155801256	8.69	4449	1.000	0.118	-0.087	0.121	0.194	320.107667	-59.224168	2059.79	1101

2.4 Star Slots

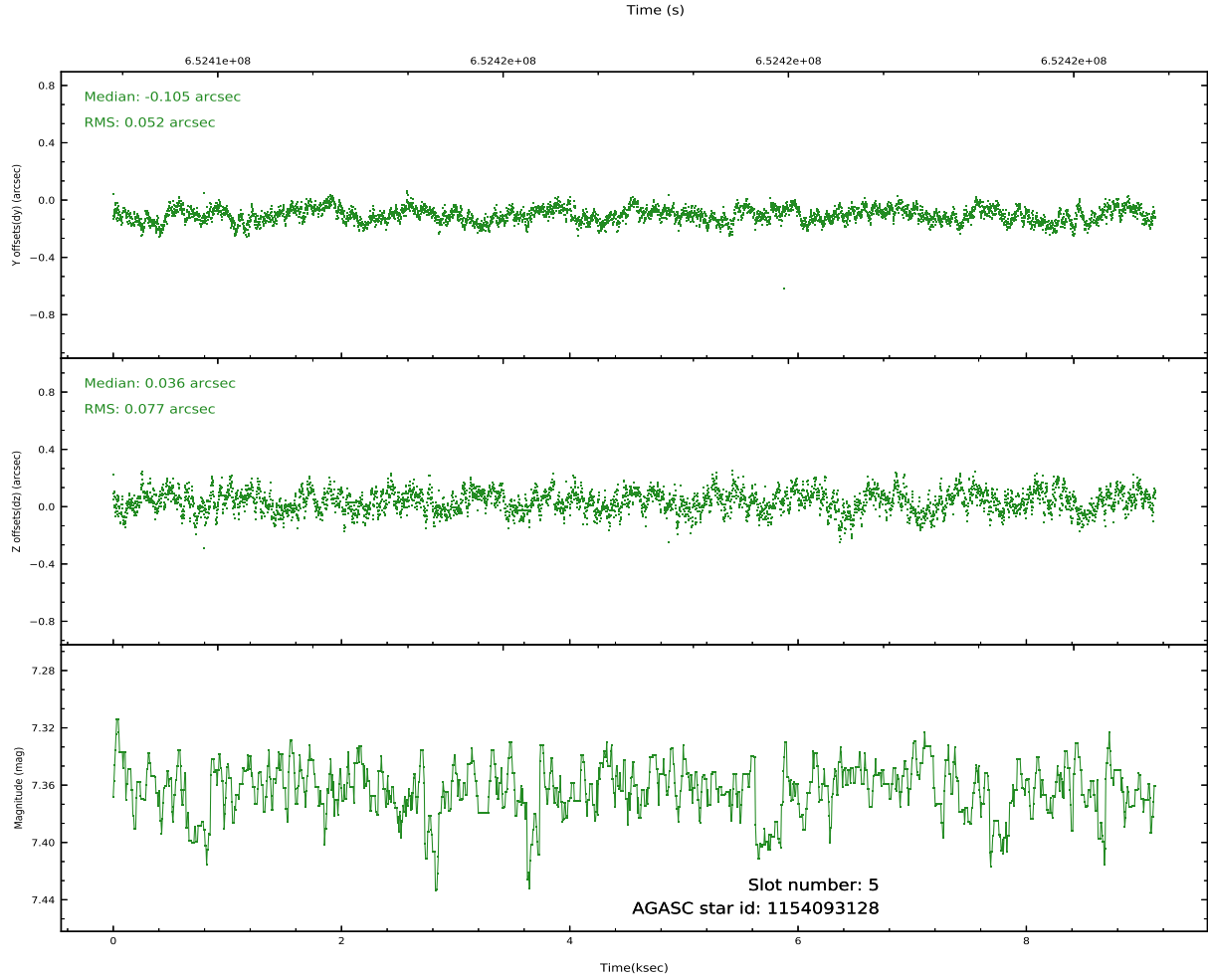
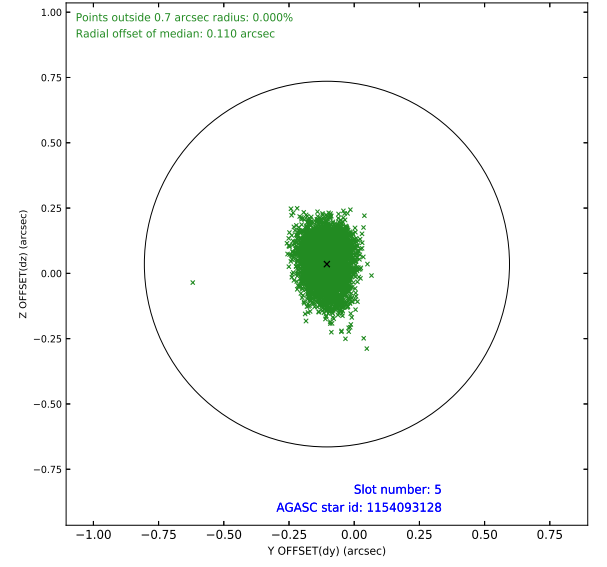
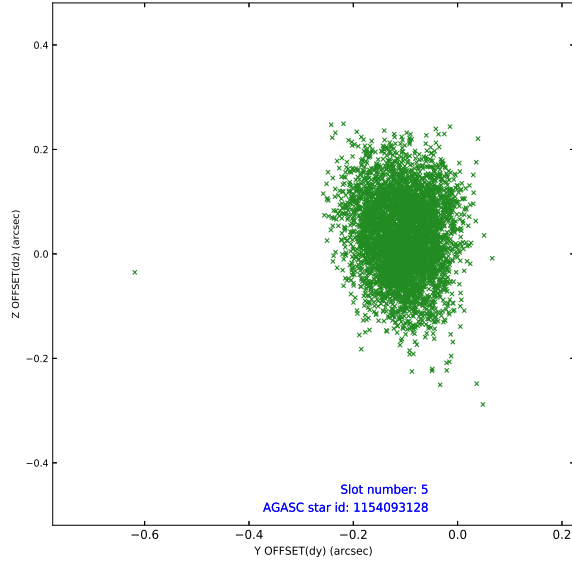
2.4.1 Slot 3



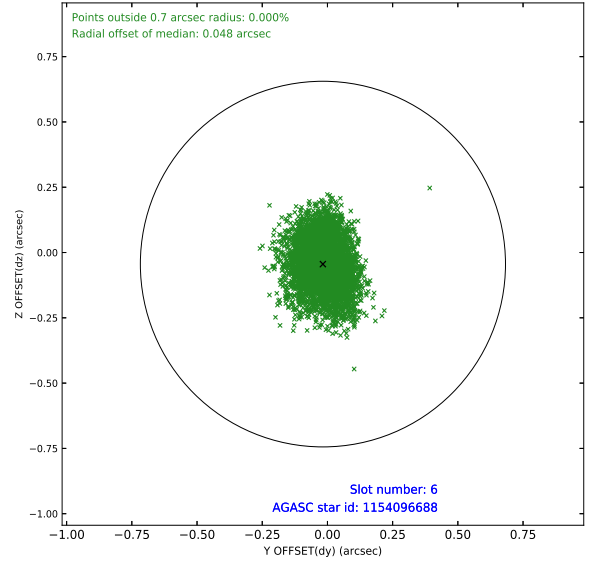
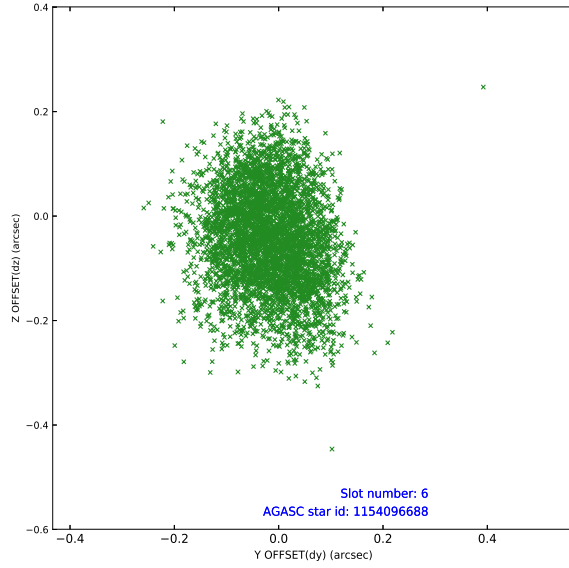
2.4.2 Slot 4



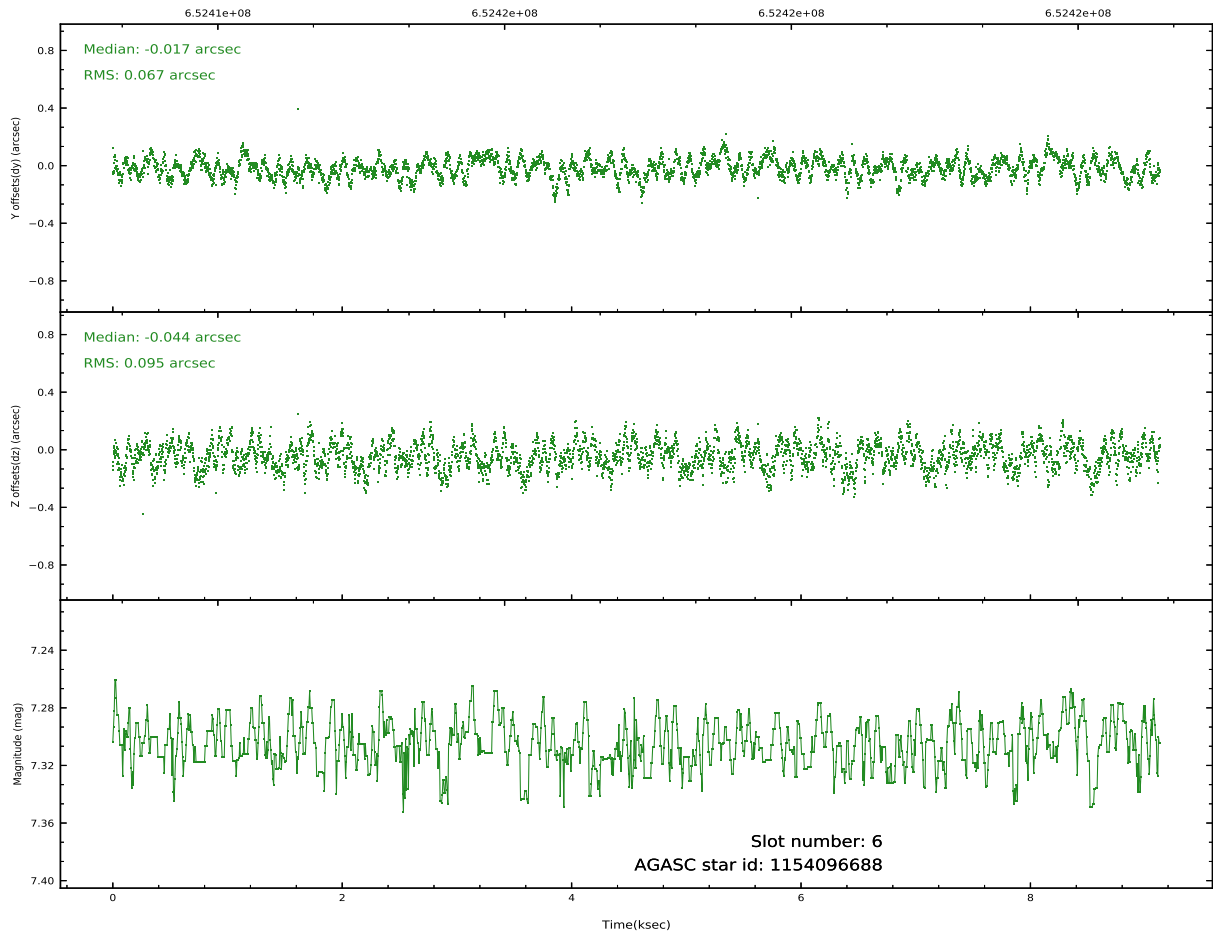
2.4.3 Slot 5



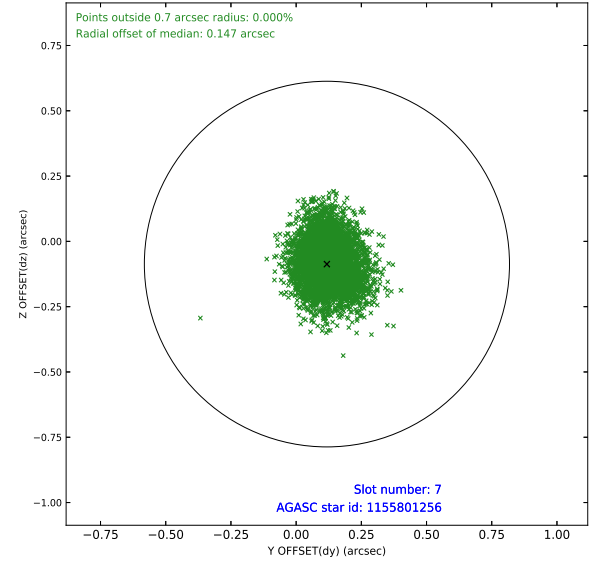
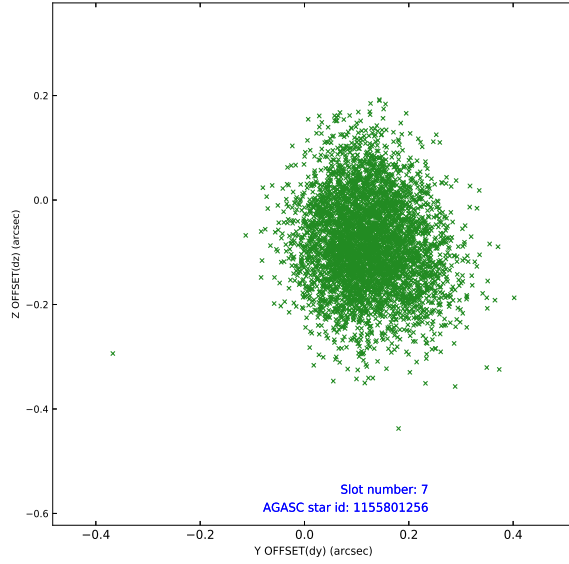
2.4.4 Slot 6



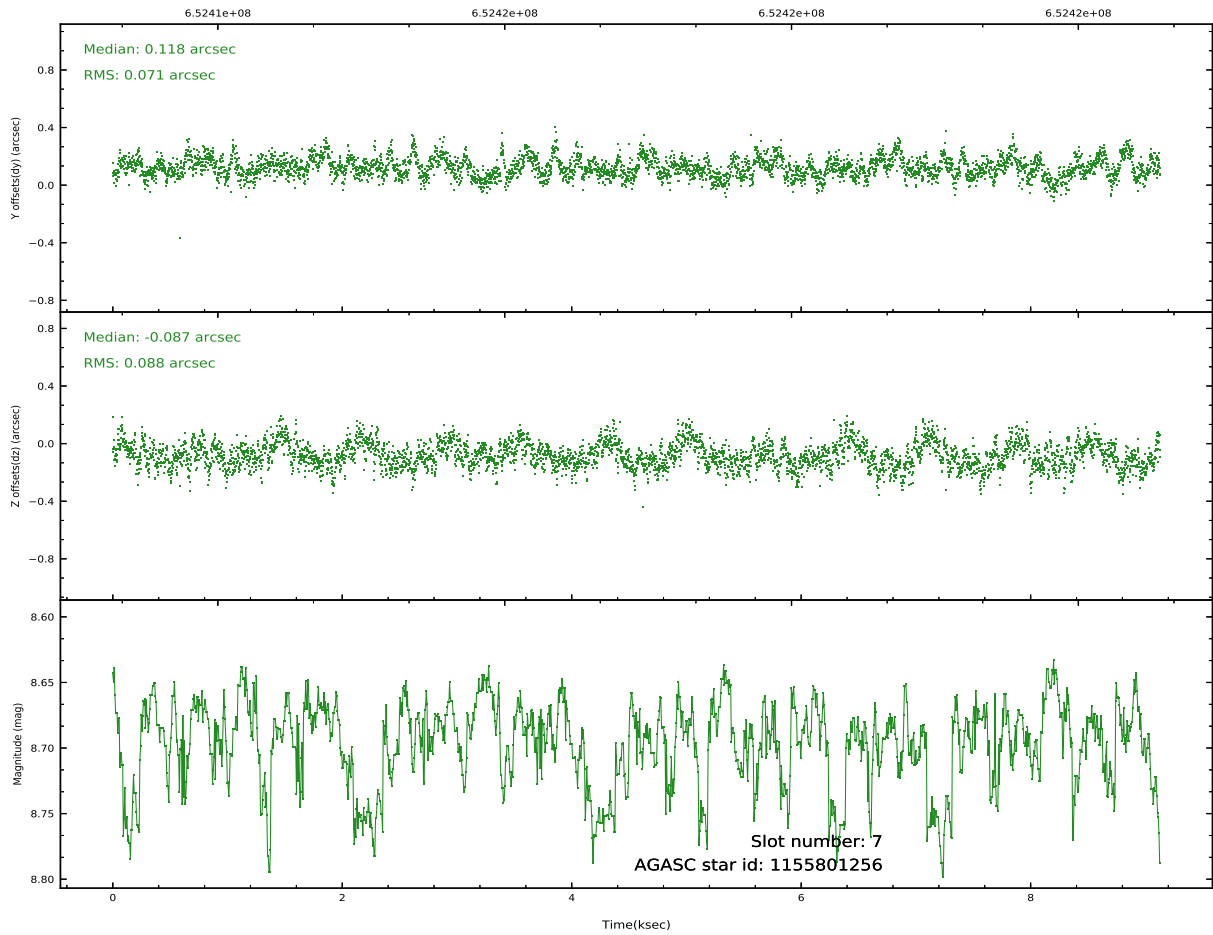
Time (s)



2.4.5 Slot 7

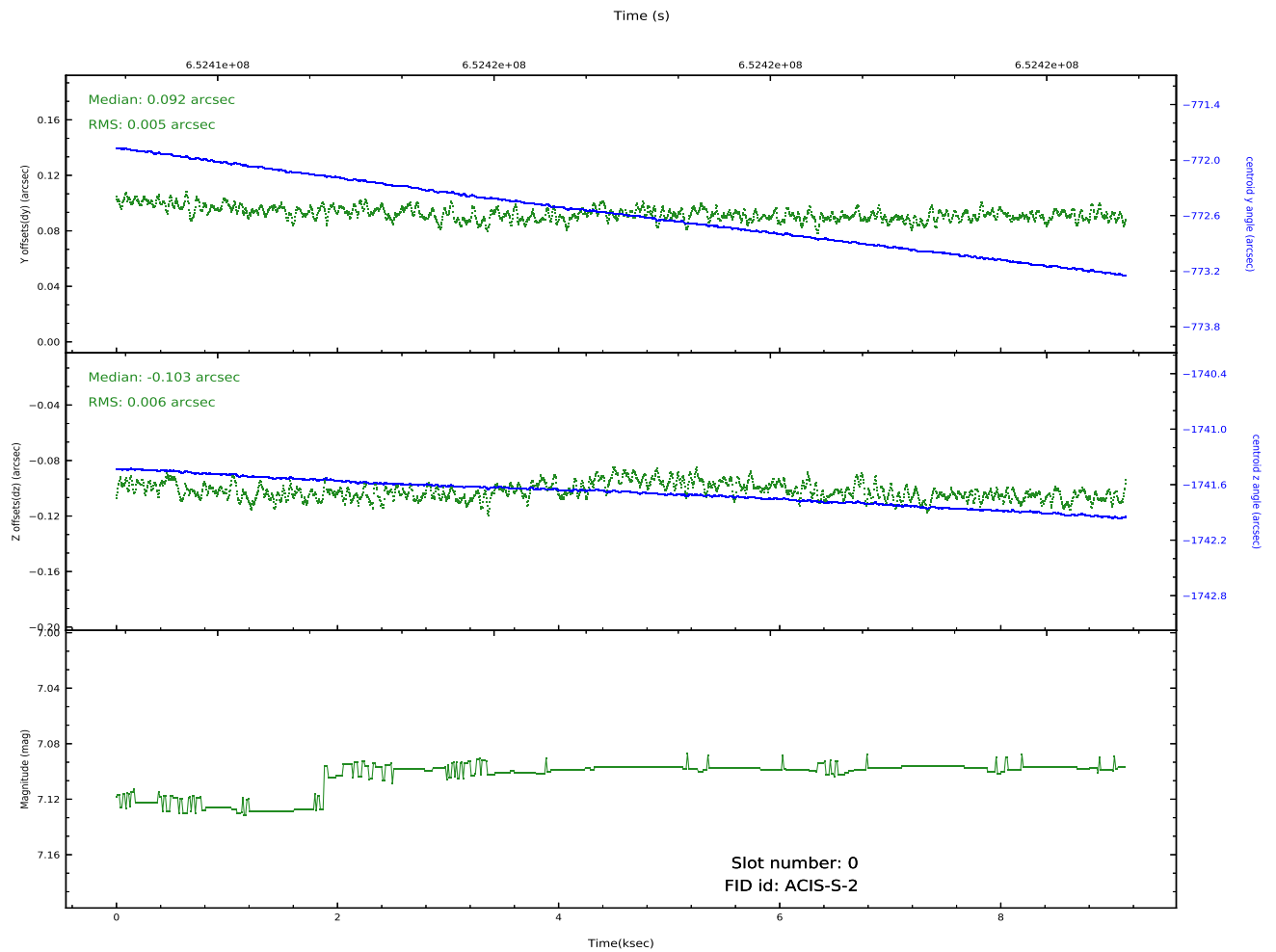
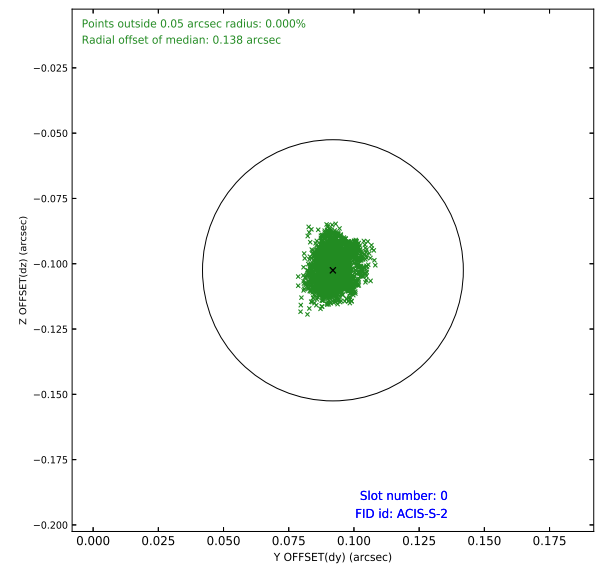
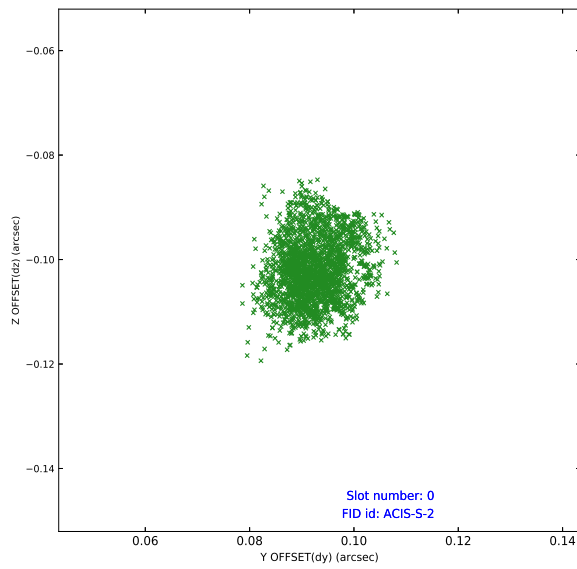


Time (s)

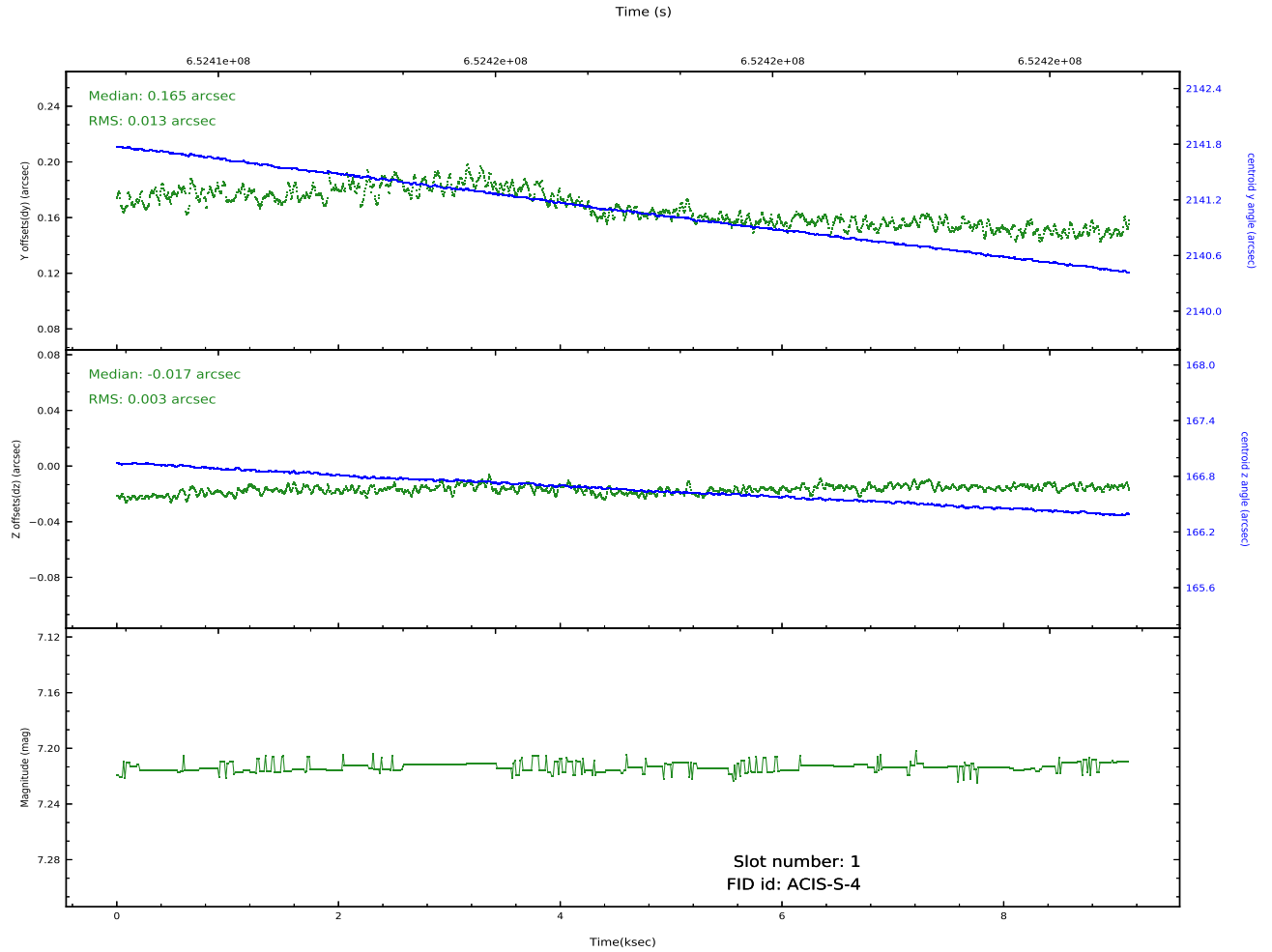
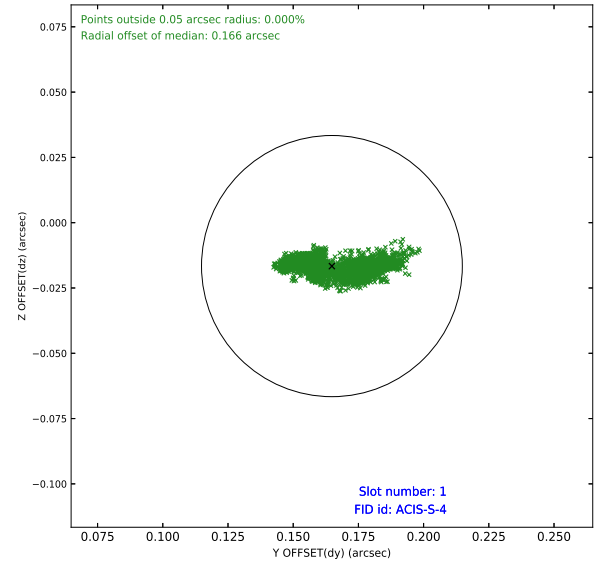
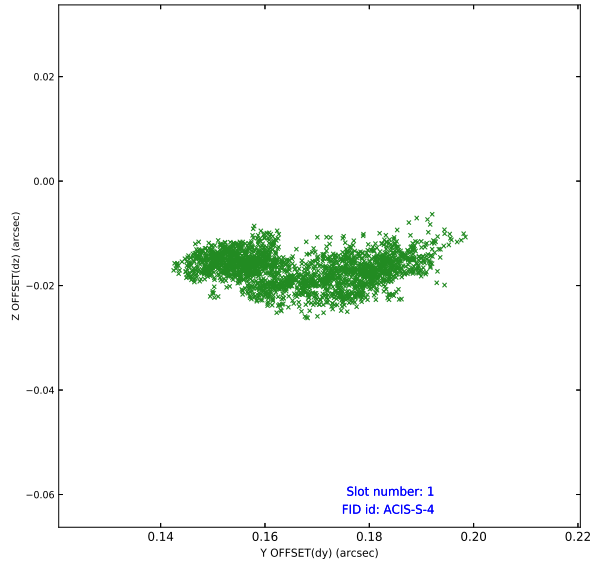


2.5 FID Slots

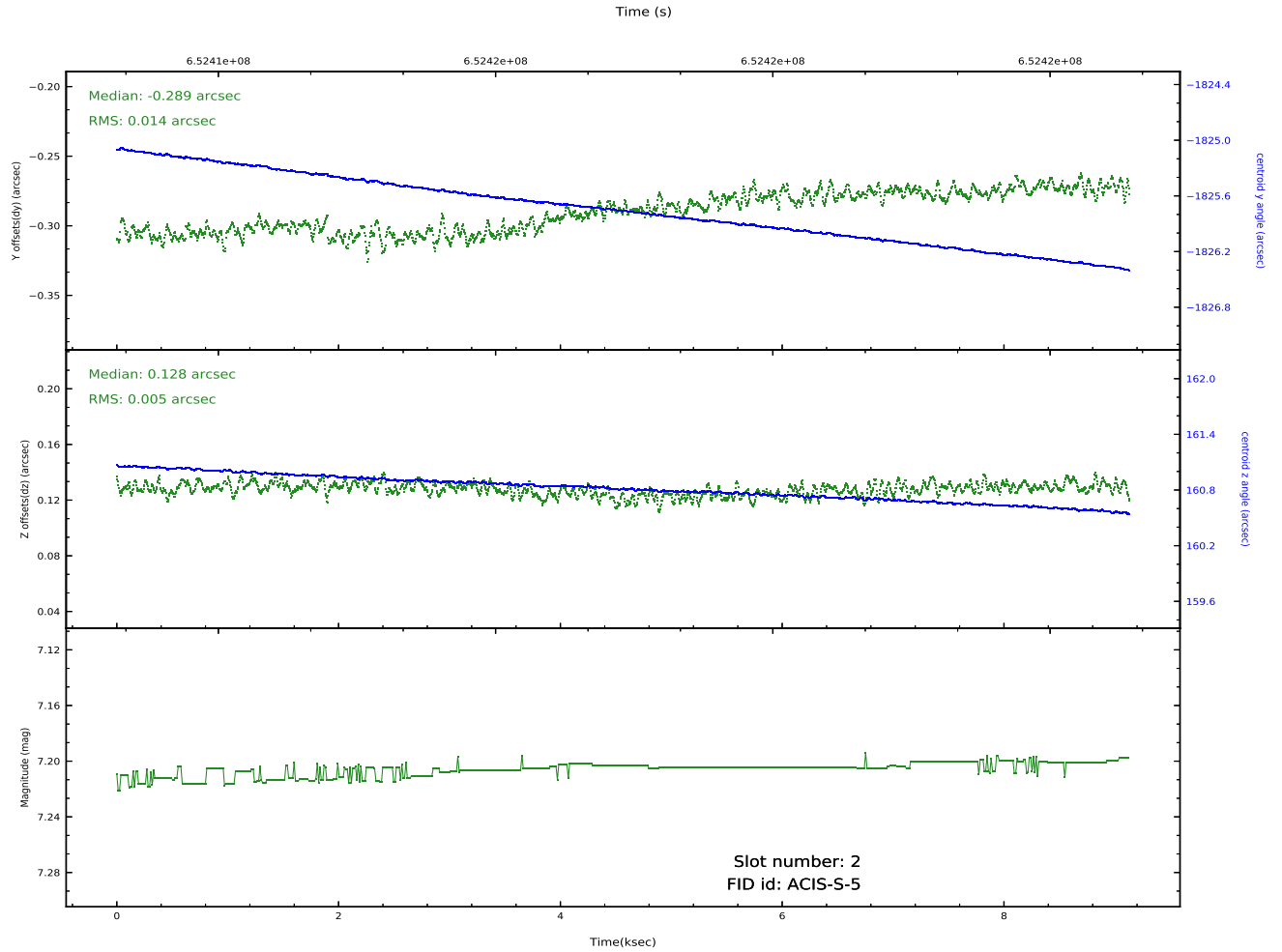
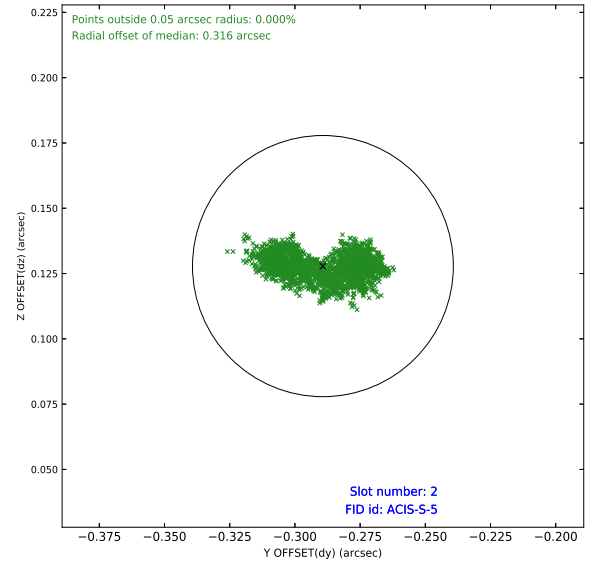
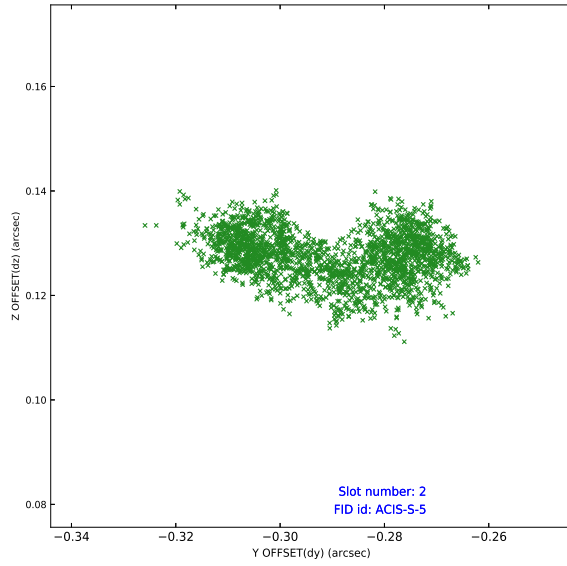
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0545076317787

A.2 Comments