

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20483 - L2 Version 3
Chandra X-Ray Center

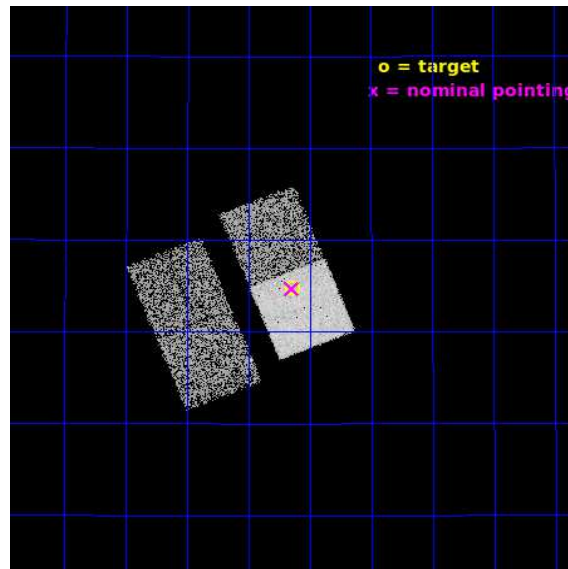
L2 Processing Date : Oct 24 2020

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1 Front

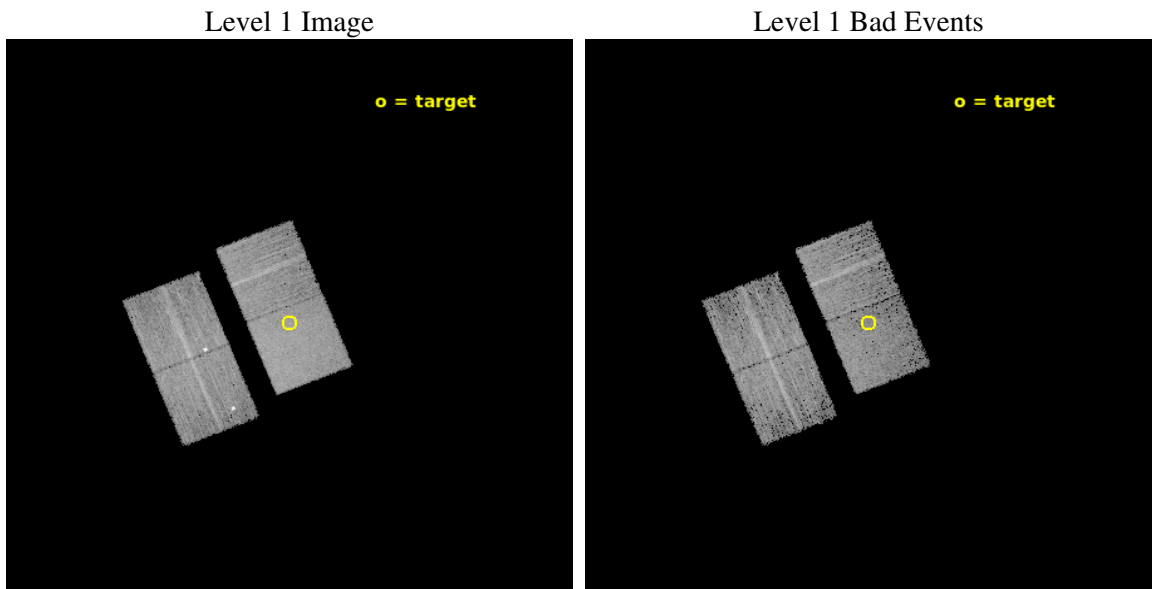
seq_num	703586	Sequence number
obs_id	20483	Observation id
title	Young Radio Sources at High Redshift	Proposal title
observer	Aneta Siemiginowska	Principal investigator
object	CGRaBS J1606+3124	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	241.535417	Observer's specified target RA [deg]
dec_targ	31.412917	Observer's specified target Dec [deg]
ra_nom	241.53653872925	Nominal RA [deg]
dec_nom	31.411604592678	Nominal Dec [deg]
roll_nom	68.094317223413	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6422.02929461	Sum of GTIs [s]
liveltime	6338.1207540468	Livetime [s]
ontime2	6421.9061746597	Sum of GTIs [s]
ontime3	6421.9472146034	Sum of GTIs [s]
ontime6	6421.9882546663	Sum of GTIs [s]
ontime7	6422.02929461	Sum of GTIs [s]
l2events	38683	Number of level 2 events



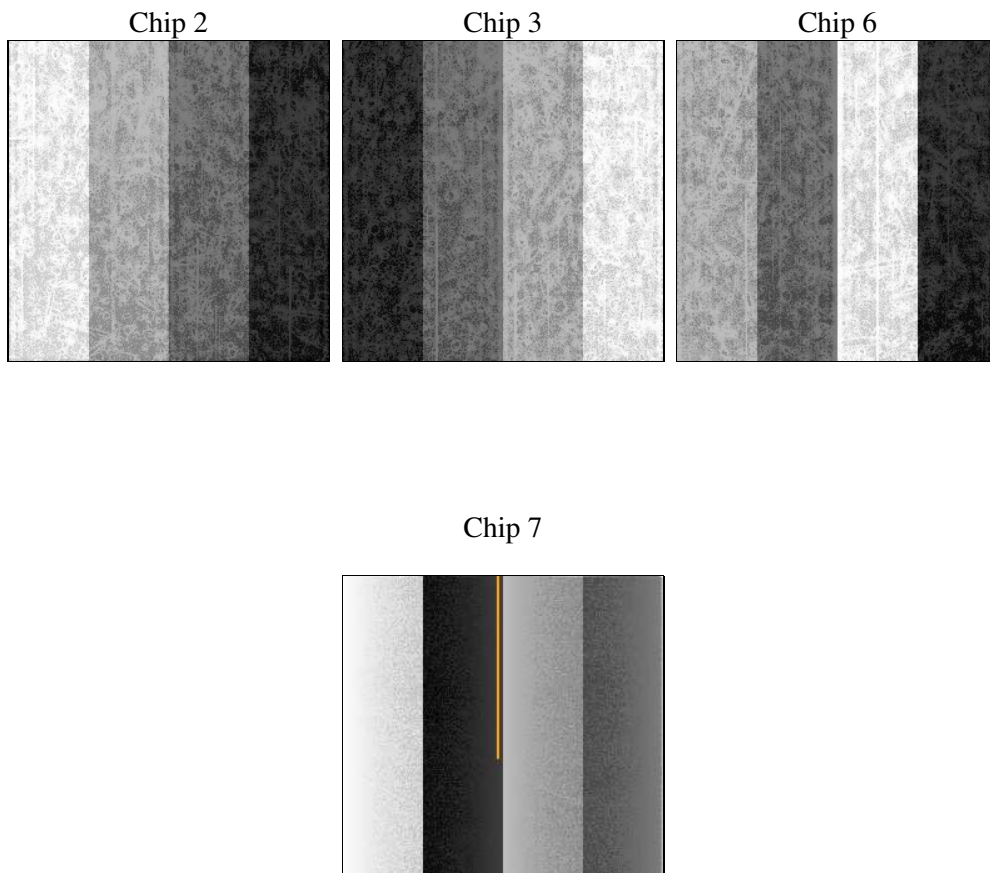
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6353.553000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	6422.02929461	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	6421.9061746597	Sum of GTIs [s]
date	2020-10-24T14:36:32	Date and time of file creation	ontime3	6421.9472146034	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	6421.9882546663	Sum of GTIs [s]
			ontime7	6422.02929461	Sum of GTIs [s]
			l1events	202534	Number of level 1 events

2.1.4 Events

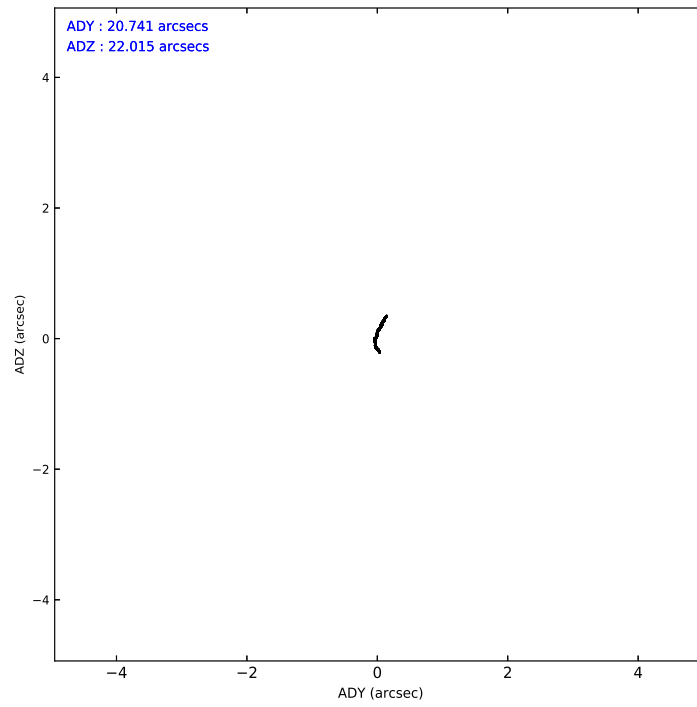
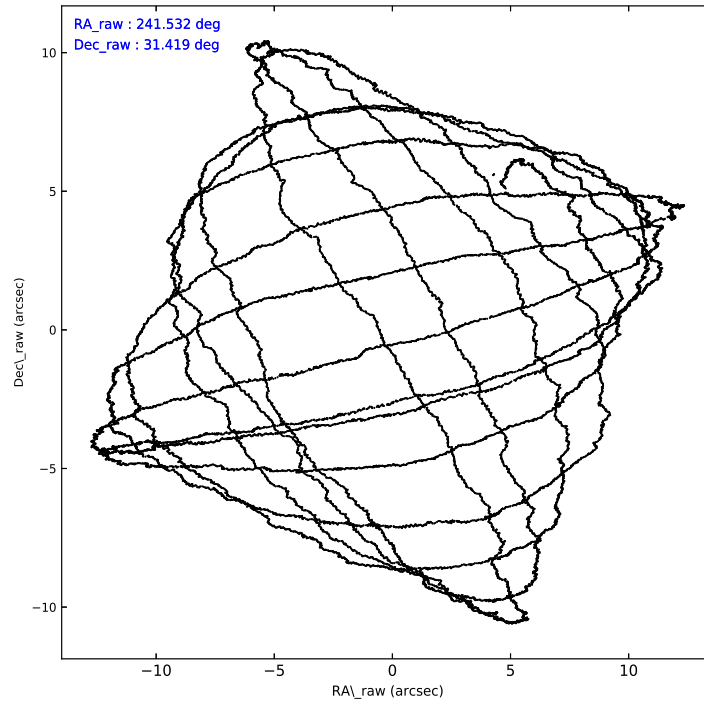
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	48476	46690	46307	61061
rejected events	41474	39963	40962	34609
rejected %	85%	85%	88%	56%

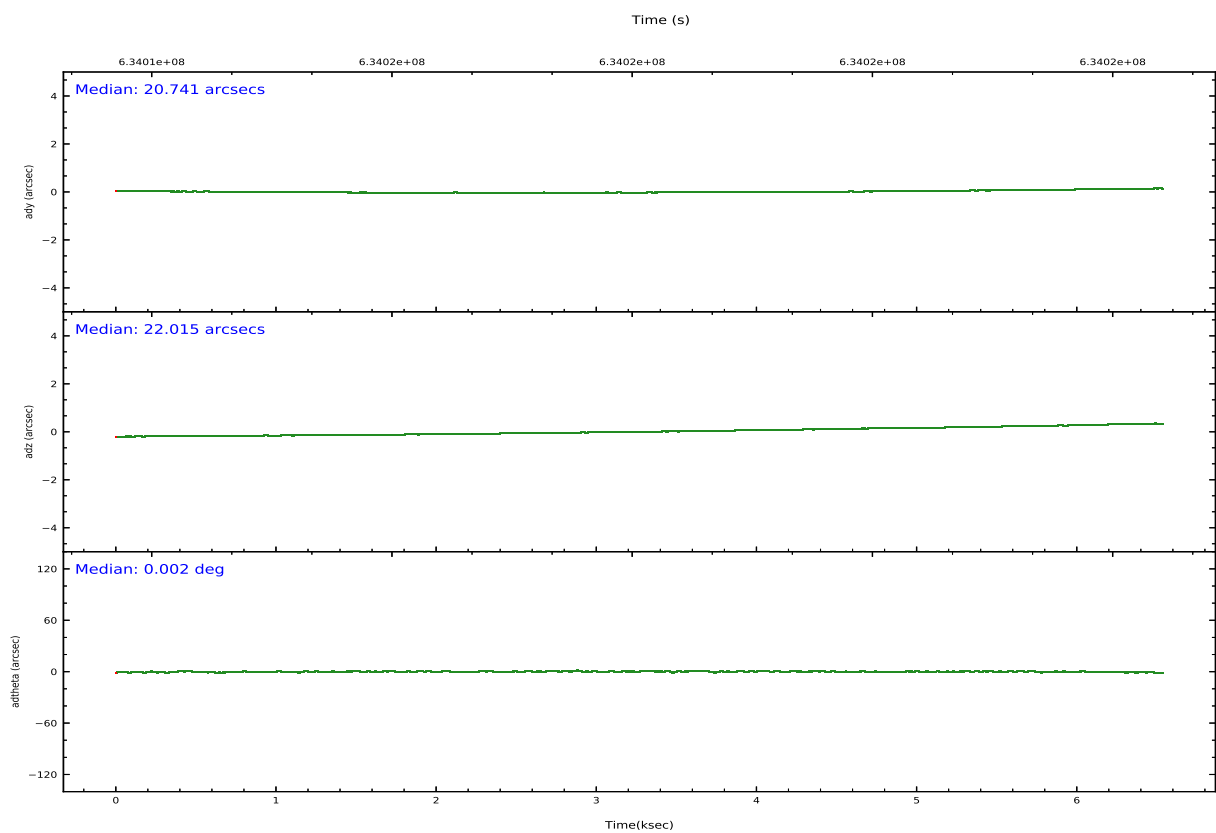
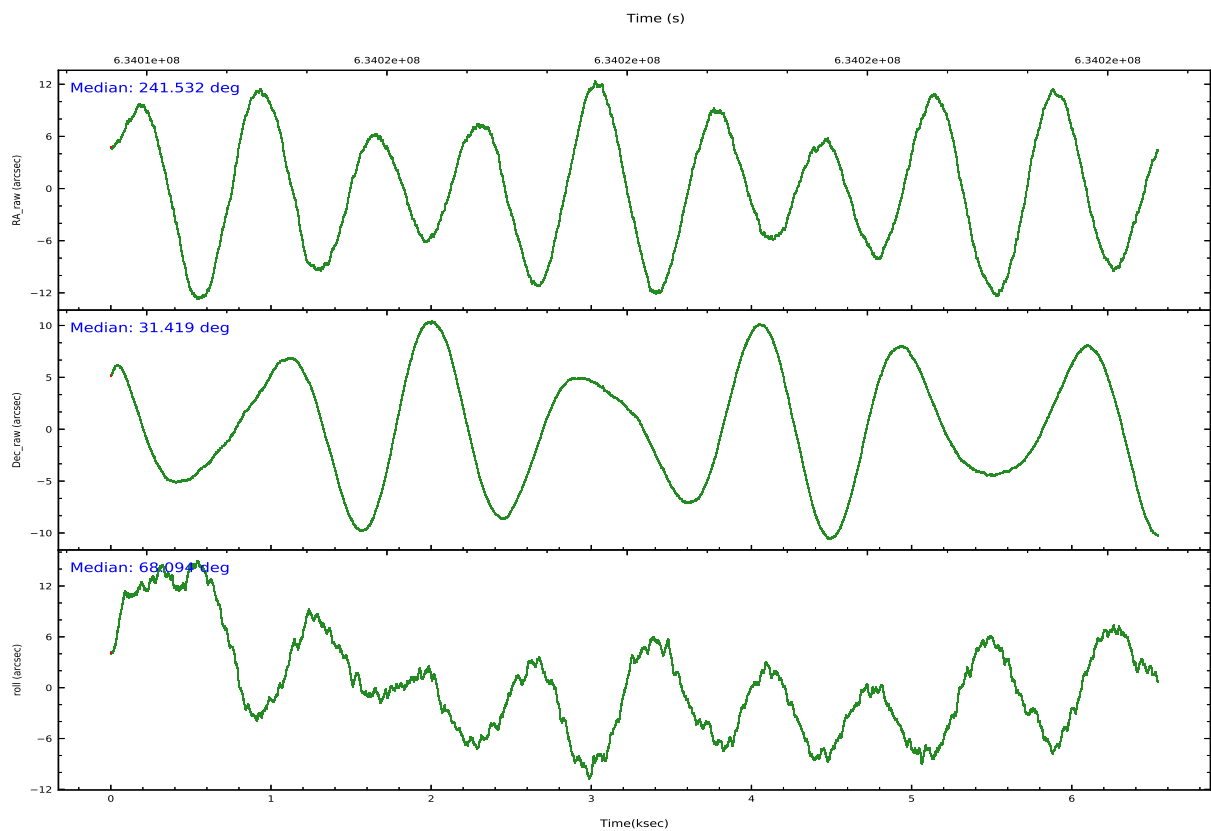
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1791	3586	1784	2361
	3%	7%	3%	3%
grade 1 events	25	30	22	67
	0%	0%	0%	0%
grade 2 events	3239	1102	1219	5569
	6%	2%	2%	9%
grade 3 events	473	506	562	2152
	0%	1%	1%	3%
grade 4 events	517	530	509	2102
	1%	1%	1%	3%
grade 5 events	1784	2250	2198	6020
	3%	4%	4%	9%
grade 6 events	990	1013	1275	14281
	2%	2%	2%	23%
grade 7 events	39657	37673	38738	28509
	81%	80%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-2367	ACIS-2367	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	241.537200	241.53653872925	CCD I2 on	O1	Y
[deg] Pointing Dec	31.392346	31.411604592678	CCD I3 on	O3	Y
[deg] Pointing Roll	67.937021	68.094317223413	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	634013462.184000	634012441.35788	CCD S5 on	N	N
Observation start date	2018-02-03T02:49:53	2018-02-03T02:34:01	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	634019815.184000	634020384.59584	On-chip summing requested	N	N
Observation end date	2018-02-03T04:35:46	2018-02-03T04:46:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



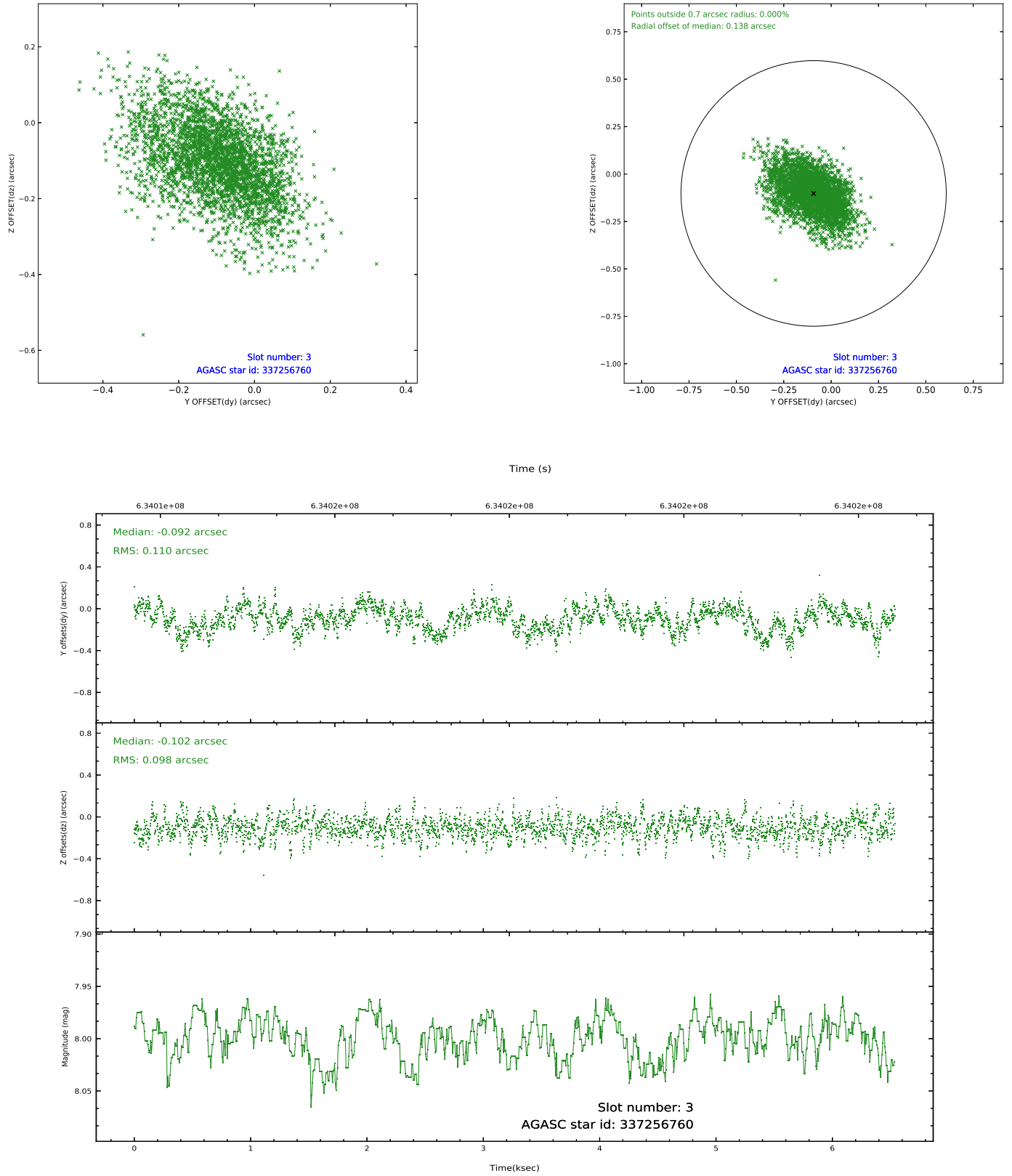


Slot Statistics

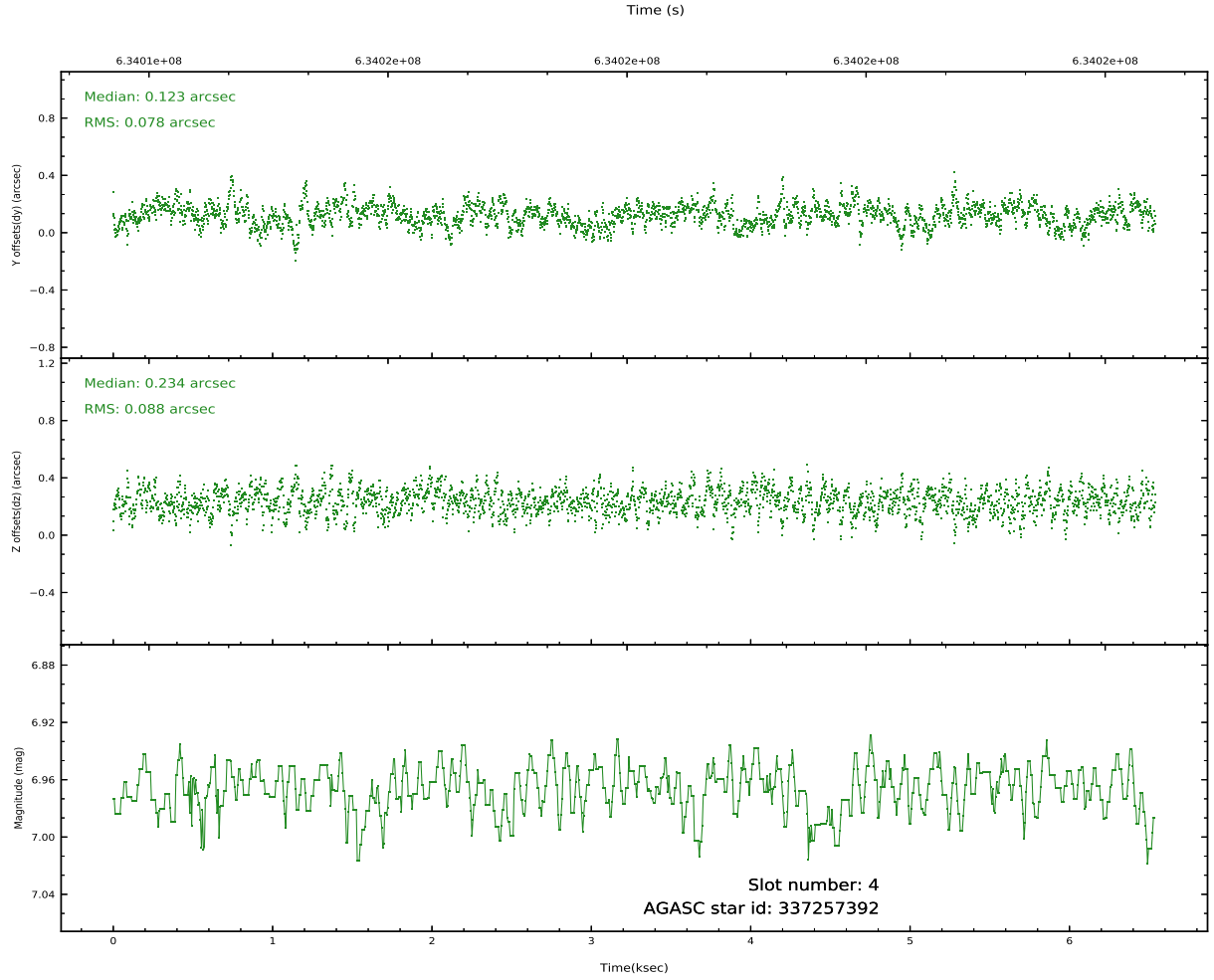
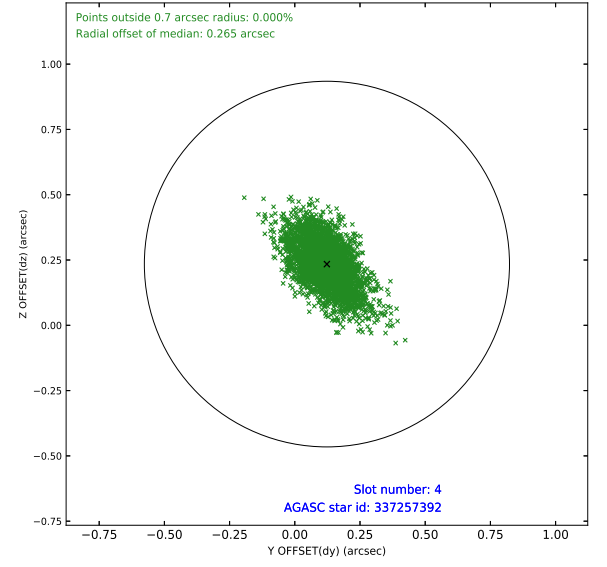
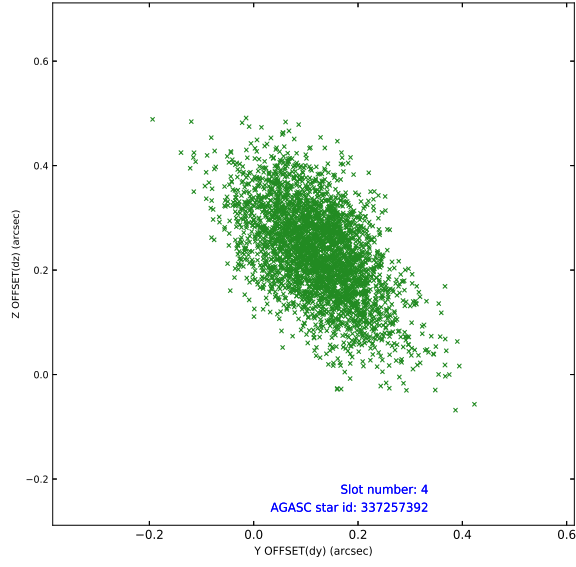
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.08	1596	1.000	0.142	-0.025	0.015	0.027	0.000000	0.000000	922.06	-1739
1	FID		ACIS-S-2	7.00	1596	1.000	-0.066	0.068	0.009	0.015	0.000000	0.000000	-773.56	-1744
2	FID		ACIS-S-4	7.11	1596	1.000	-0.102	-0.037	0.009	0.015	0.000000	0.000000	2138.89	163
3	GUIDE	used	337256760	8.00	3191	1.000	-0.092	-0.102	0.155	0.258	241.376424	31.583428	452.70	715
4	GUIDE	used	337257392	6.97	3190	1.000	0.123	0.234	0.120	0.210	241.418461	30.917022	-1723.20	-302
5	GUIDE	used	337258984	9.47	3093	1.000	0.011	0.038	0.195	0.336	241.172034	32.158264	2138.59	2068
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
7	GUIDE	used	337261712	8.52	3188	1.000	-0.043	-0.171	0.140	0.254	240.893767	31.176830	-1457.28	1548

2.4 Star Slots

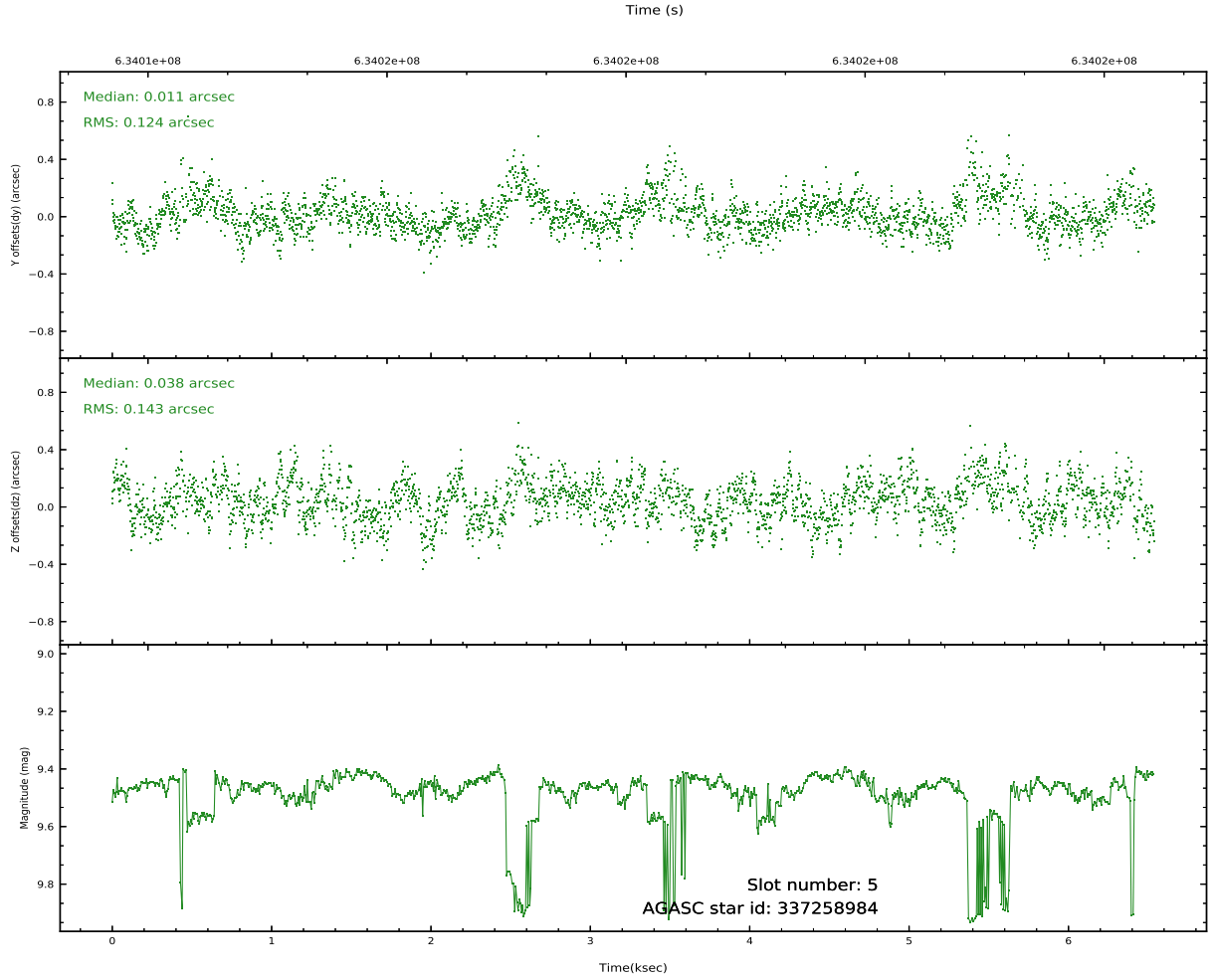
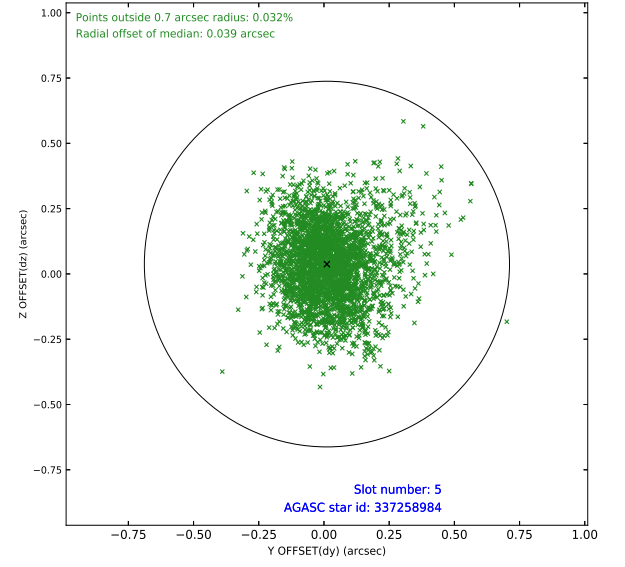
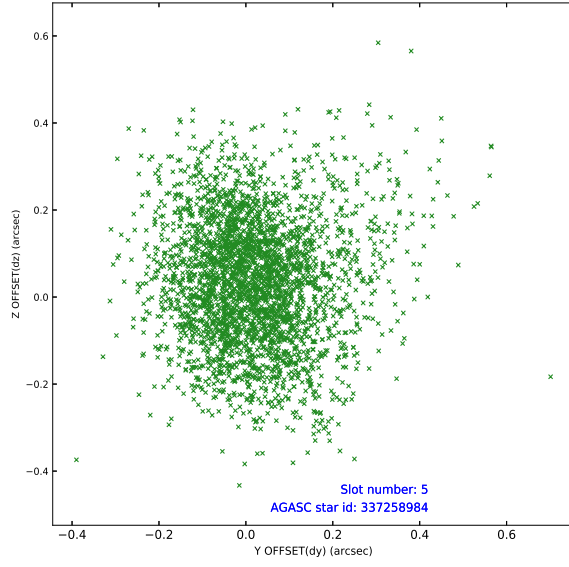
2.4.1 Slot 3



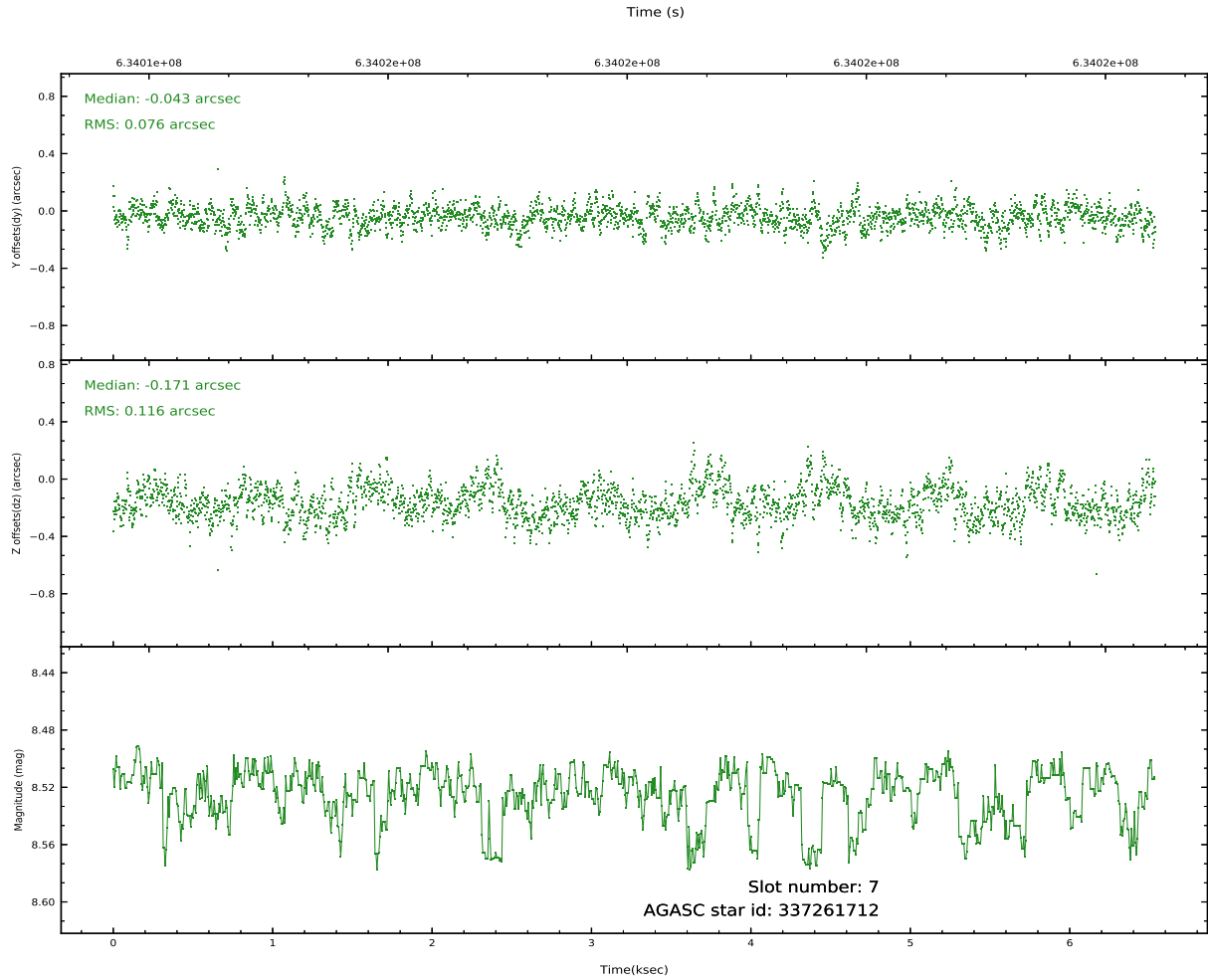
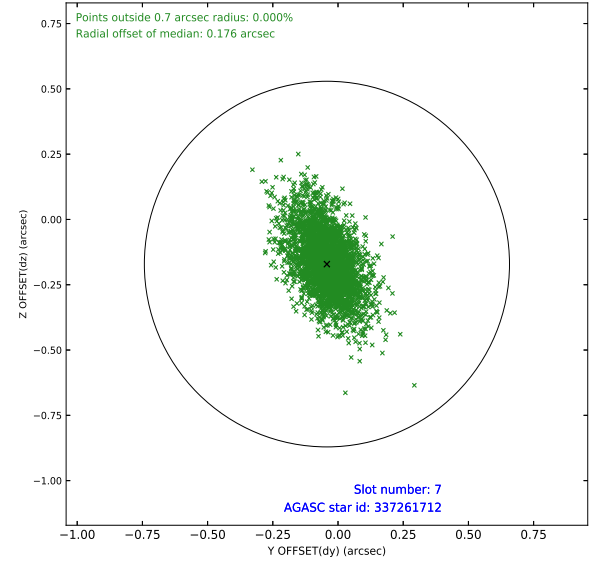
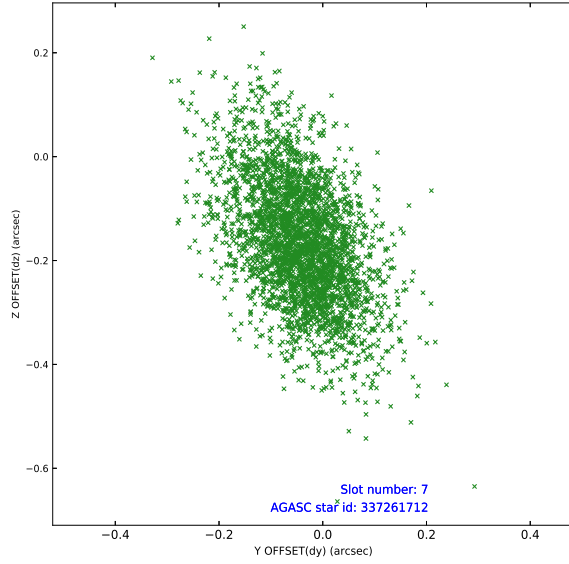
2.4.2 Slot 4



2.4.3 Slot 5

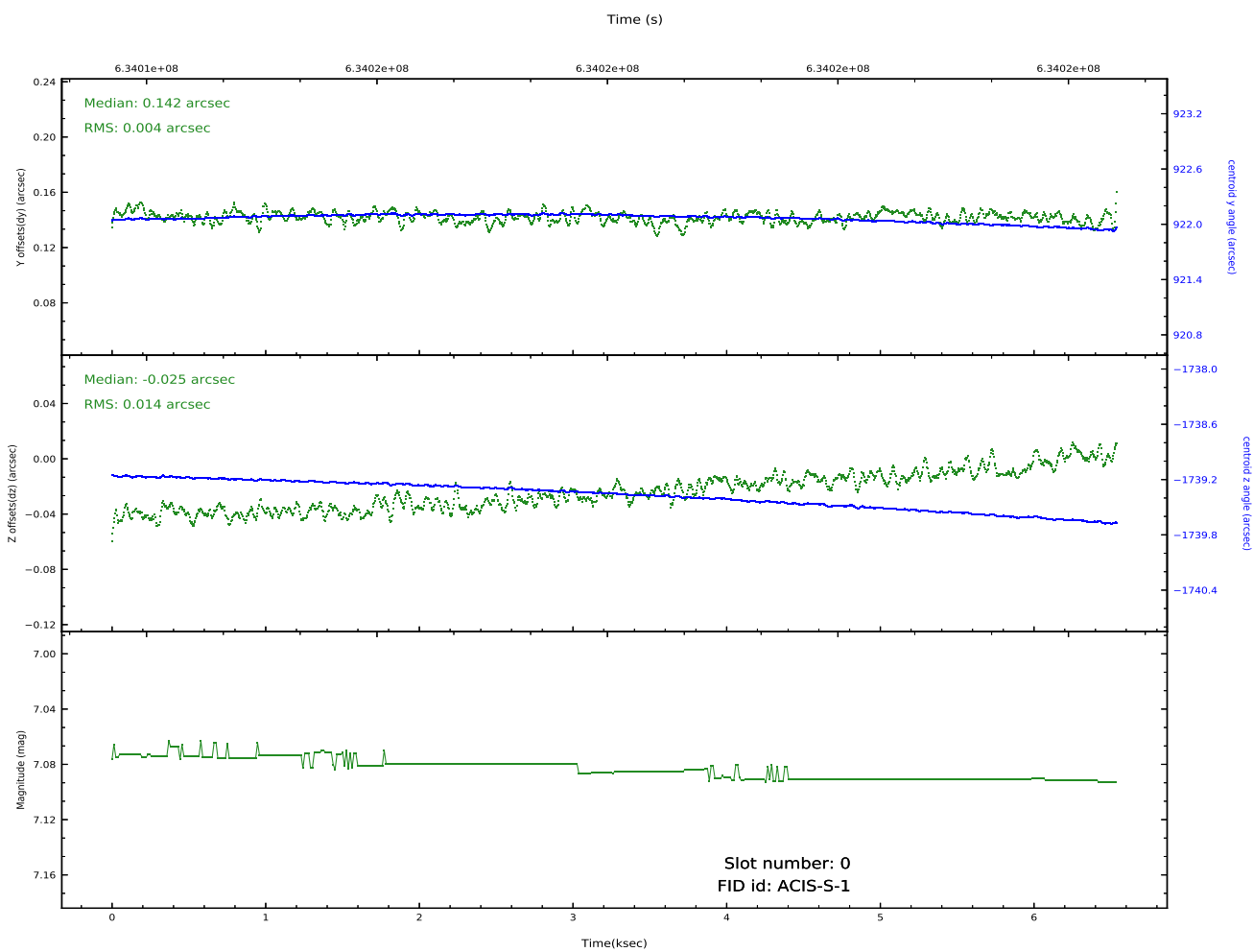
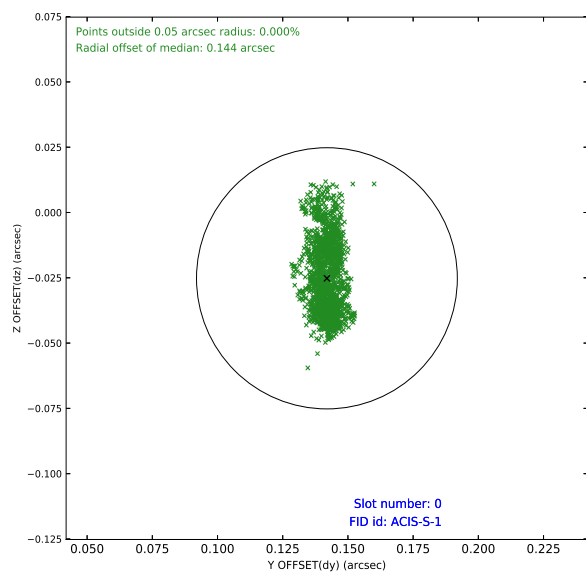
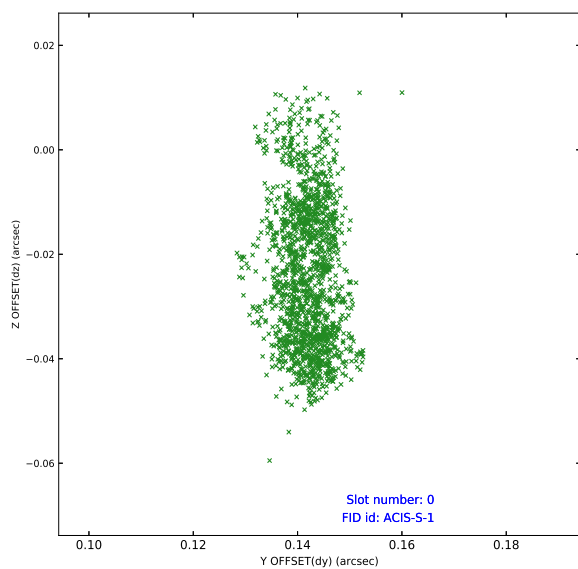


2.4.4 Slot 7

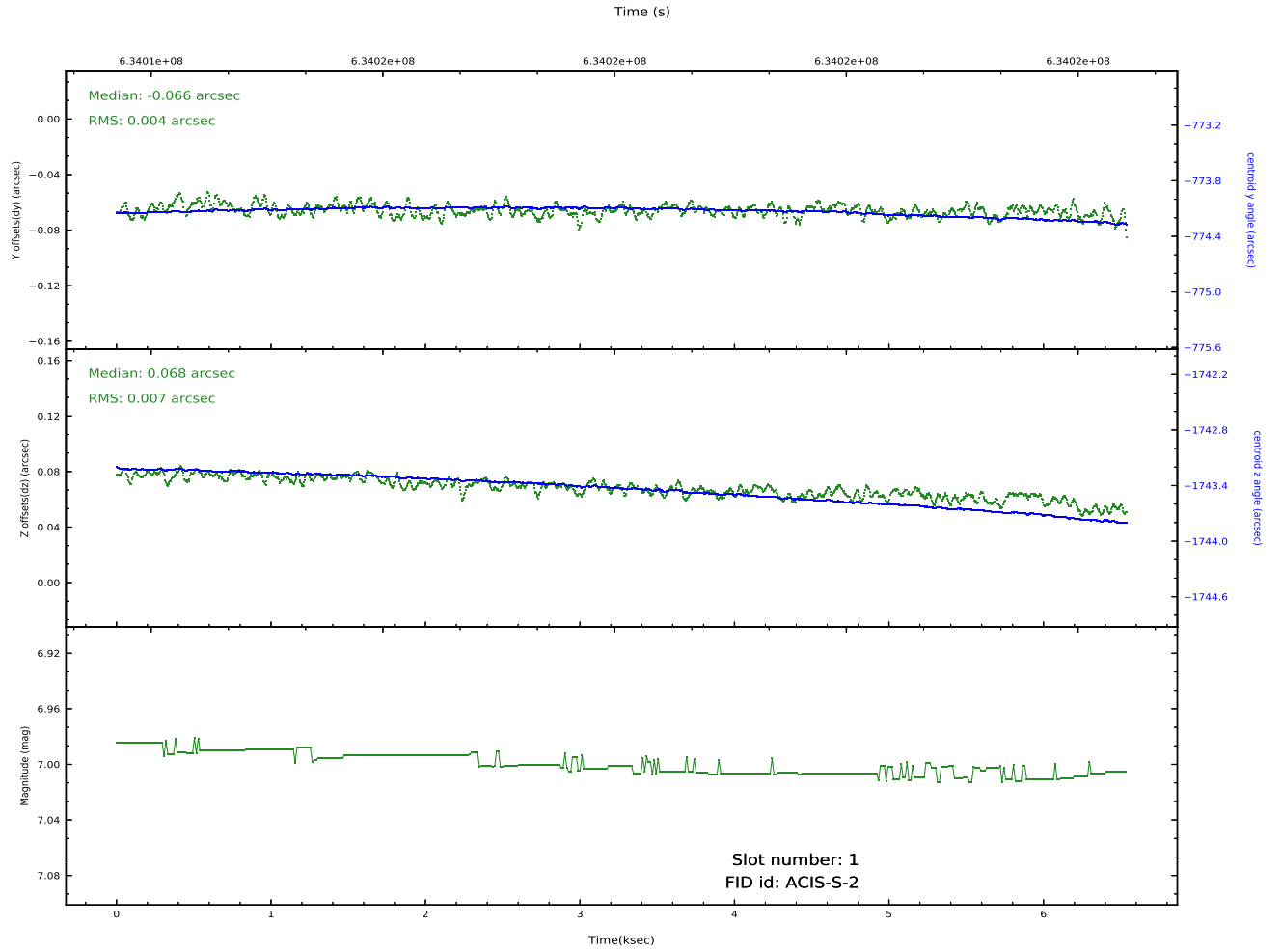
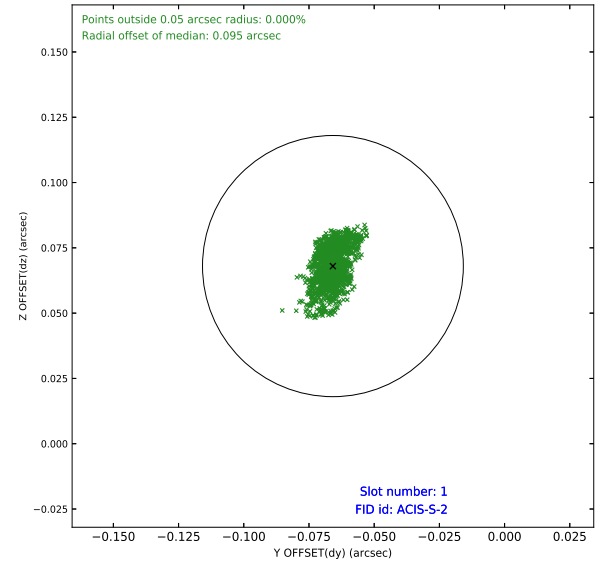
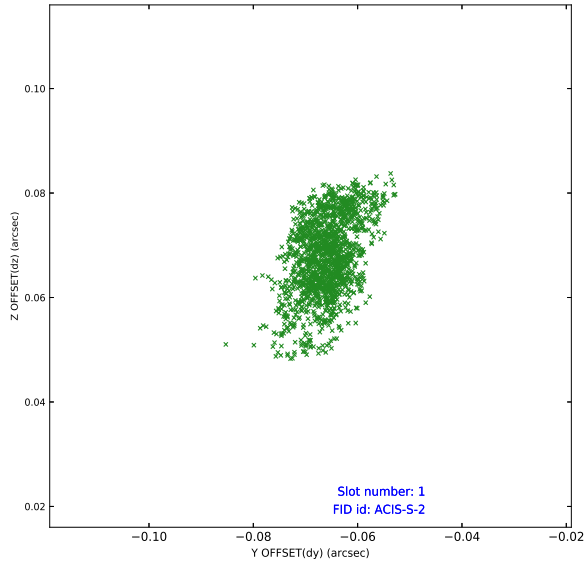


2.5 FID Slots

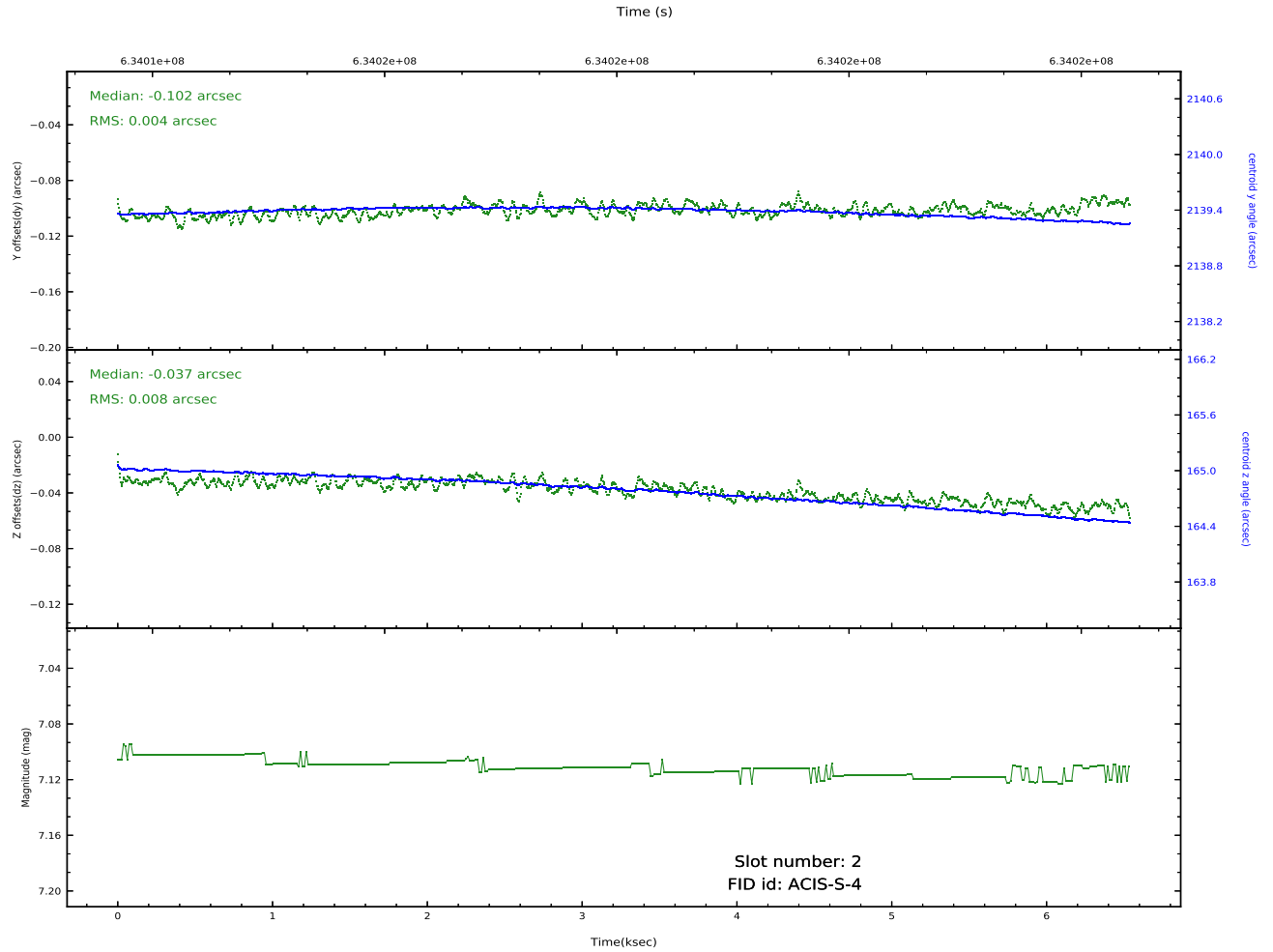
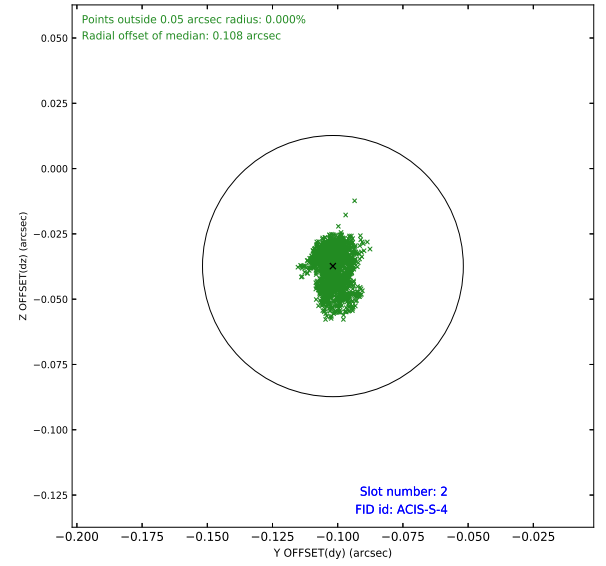
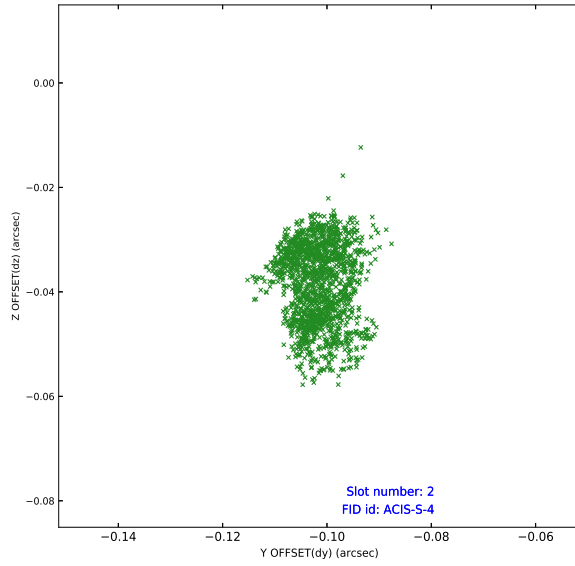
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.4220292907953

A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.