

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4825 - L2 Version 4
Chandra X-Ray Center

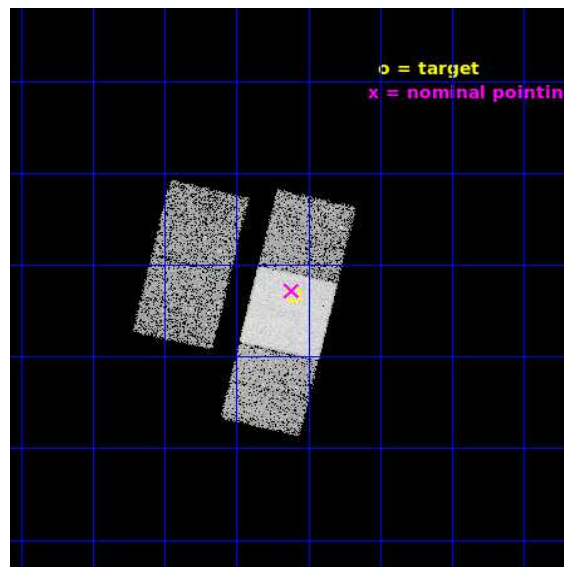
L2 Processing Date : Oct 1 2020

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1 Front

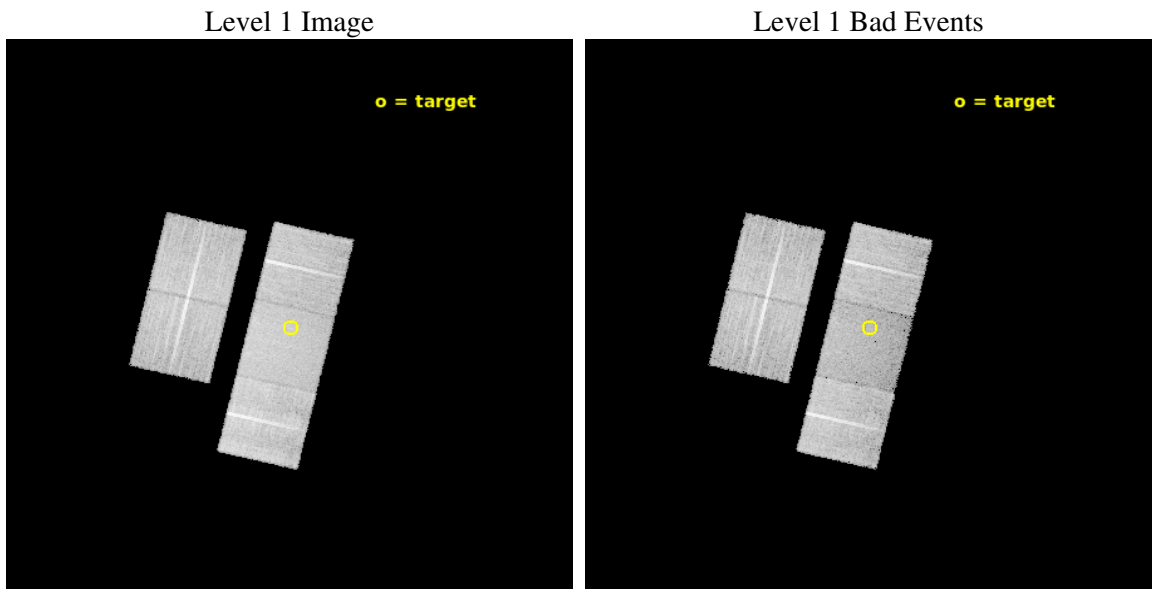
seq_num	700907	Sequence number
obs_id	4825	Observation id
title	Destroying Degeneracy: Spanning the Luminosity Range for Radio-Quiet Quasars at z=4	Proposal title
observer	Dr. Jill Bechtold	Principal investigator
object	QSO J0050-0053	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	12.52625	Observer's specified target RA [deg]
dec_targ	-0.888611	Observer's specified target Dec [deg]
ra_nom	12.528675921243	Nominal RA [deg]
dec_nom	-0.88029095539146	Nominal Dec [deg]
roll_nom	103.33967999728	Nominal Roll [deg]
revision	4	Processing version of data
ontime	13181.199974626	Sum of GTIs [s]
livetime	13008.9778931	Livetime [s]
ontime2	13181.199974626	Sum of GTIs [s]
ontime3	13181.199974626	Sum of GTIs [s]
ontime6	13171.777073681	Sum of GTIs [s]
ontime7	13181.199974626	Sum of GTIs [s]
ontime8	13178.059074014	Sum of GTIs [s]
l2events	68395	Number of level 2 events



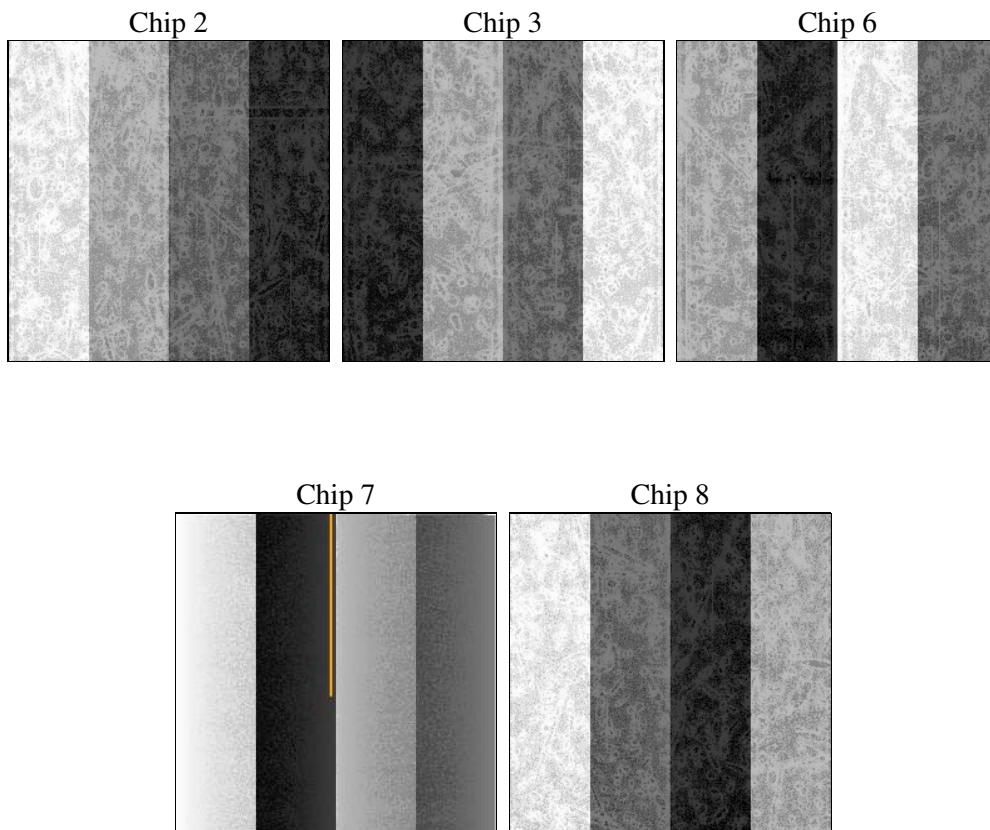
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	13181.199974626	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	13181.199974626	Sum of GTIs [s]
date	2020-10-01T21:43:52	Date and time of file creation	ontime3	13181.199974626	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	13171.777073681	Sum of GTIs [s]
			ontime7	13181.199974626	Sum of GTIs [s]
			ontime8	13178.059074014	Sum of GTIs [s]
			l1events	455877	Number of level 1 events

2.1.4 Events

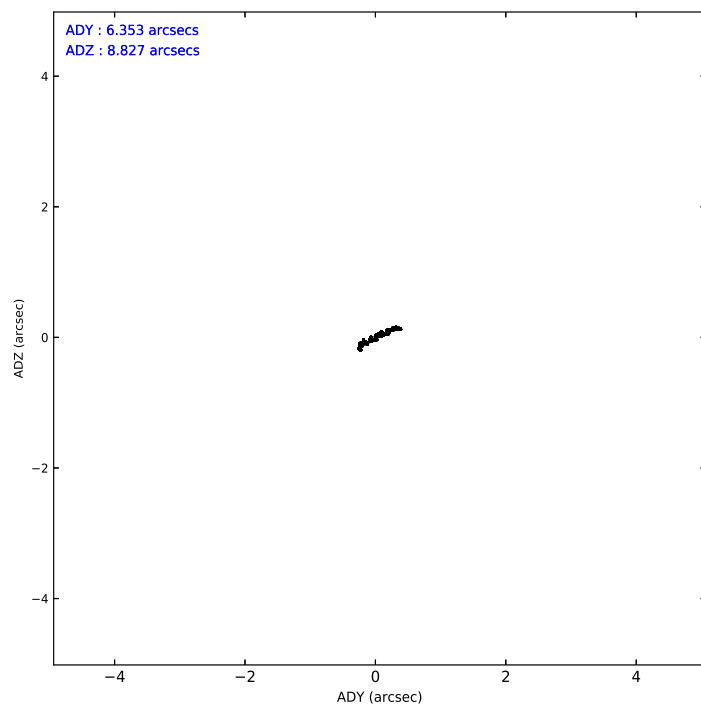
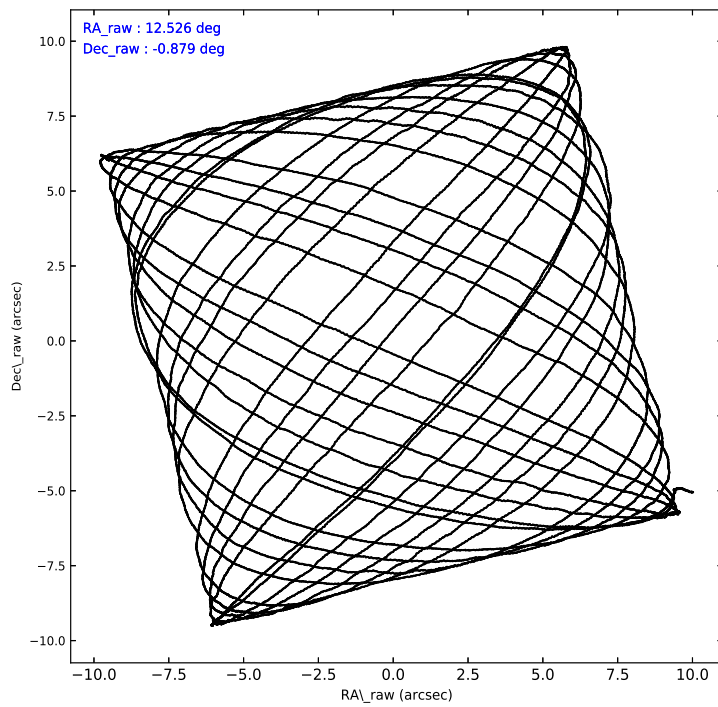
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	87767	83627	84820	90983	108680
rejected events	79727	76281	76563	49900	84064
rejected %	90%	91%	90%	54%	77%

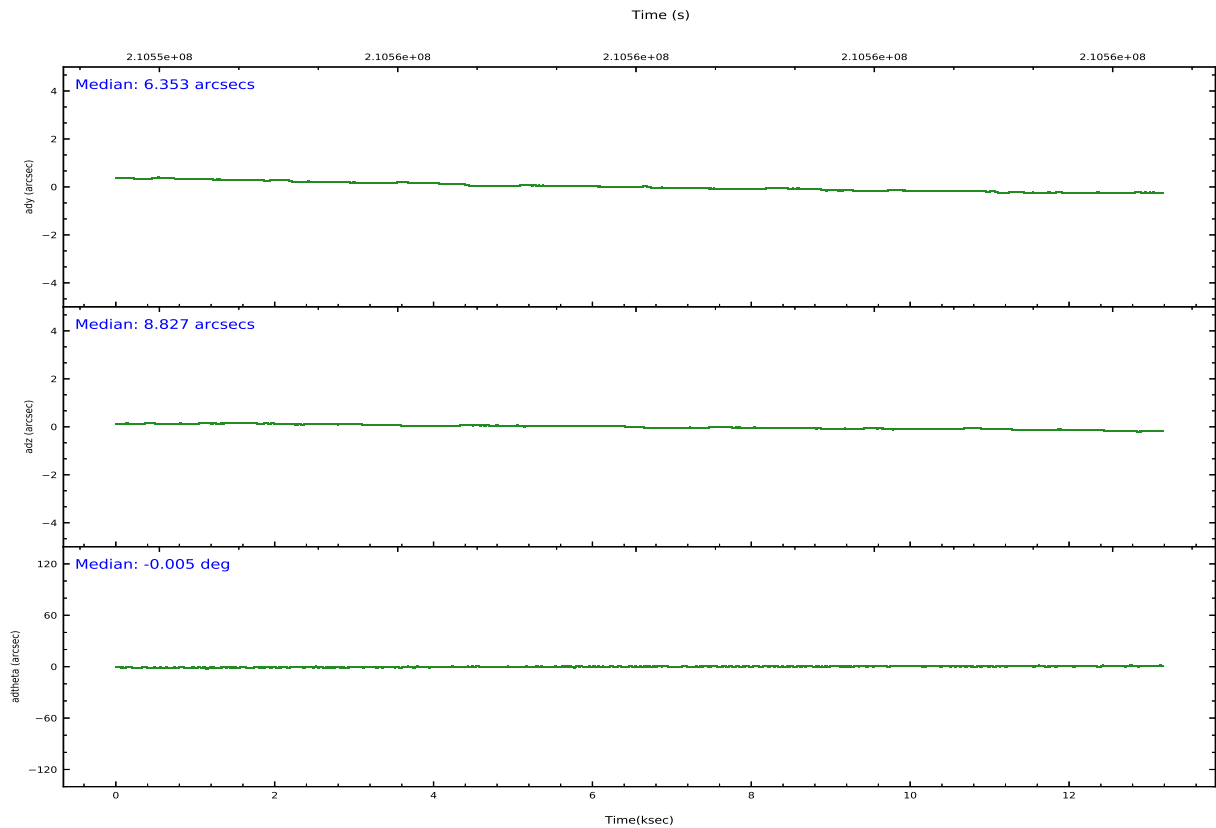
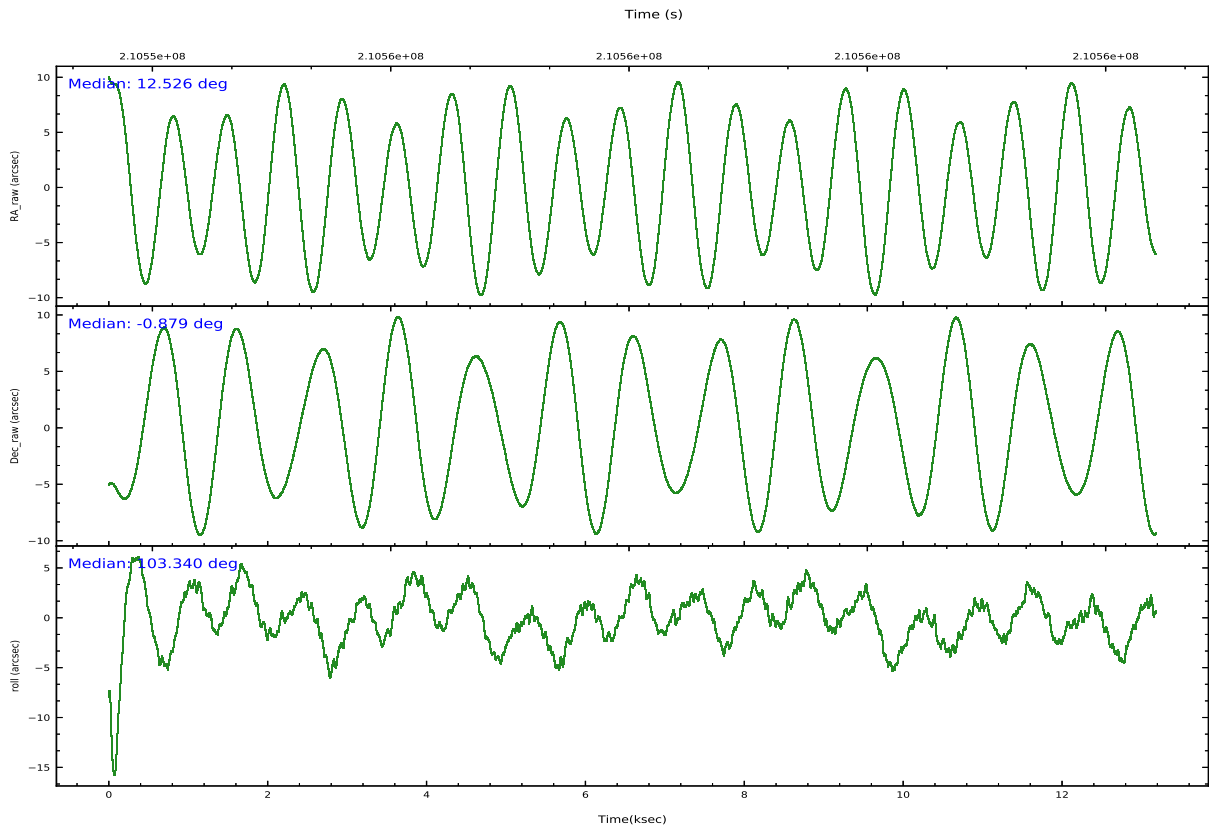
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2932	2551	2831	3648	7193
	3%	3%	3%	4%	6%
grade 1 events	44	52	40	88	73
	0%	0%	0%	0%	0%
grade 2 events	1887	1623	1739	8153	5412
	2%	1%	2%	8%	4%
grade 3 events	920	881	934	3991	2725
	1%	1%	1%	4%	2%
grade 4 events	853	873	956	3898	2576
	0%	1%	1%	4%	2%
grade 5 events	2672	3202	3336	9810	4751
	3%	3%	3%	10%	4%
grade 6 events	1458	1430	1806	21444	6741
	1%	1%	2%	23%	6%
grade 7 events	77001	73015	73178	39951	79209
	87%	87%	86%	43%	72%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	12.544661	12.528675921243	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.898509	-0.88029095539146	Alternating exposures requested	N	N
[deg] Pointing Roll	103.181002	103.33967999728	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	210552636.184000	210551626.92202			
Observation start date	2004-09-02T22:49:32	2004-09-02T22:33:46			
[s] Observation end time (MET)	210565636.184000	210566057.89767			
Observation end date	2004-09-03T02:26:12	2004-09-03T02:34:17			
Read mode	TIMED	TIMED			

2.3 Aspect





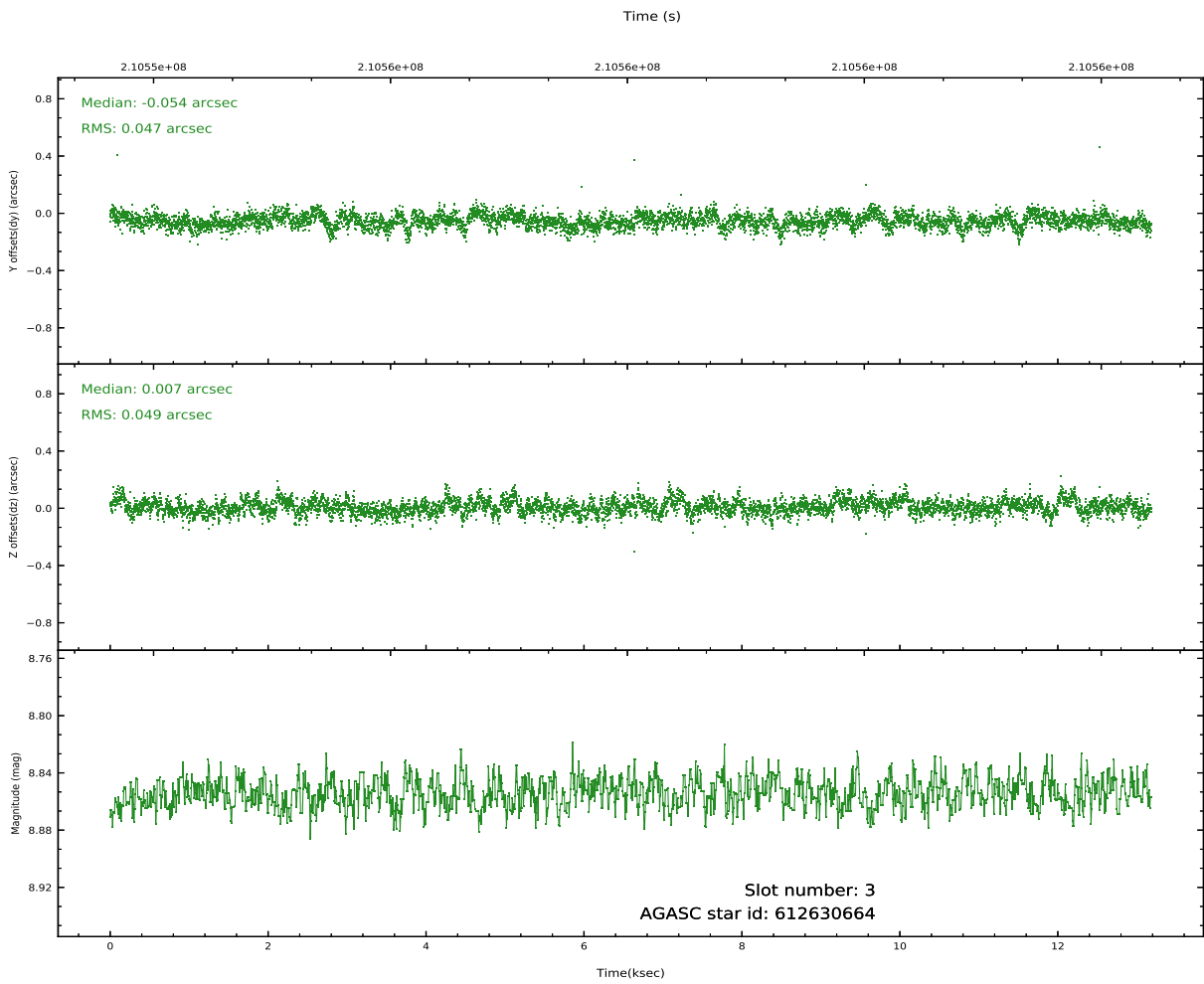
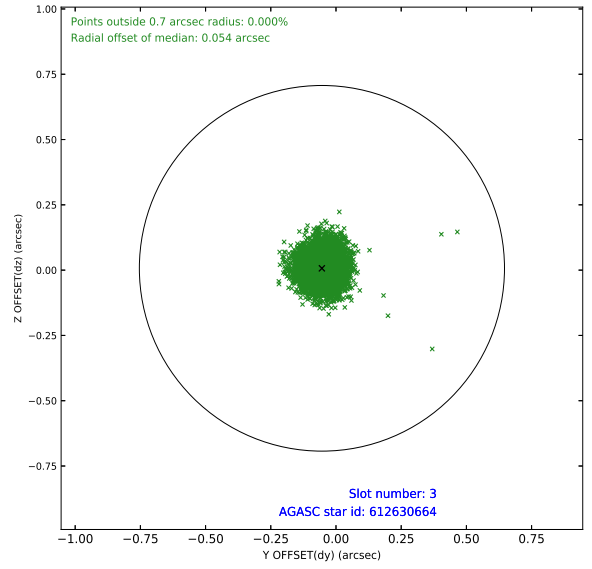
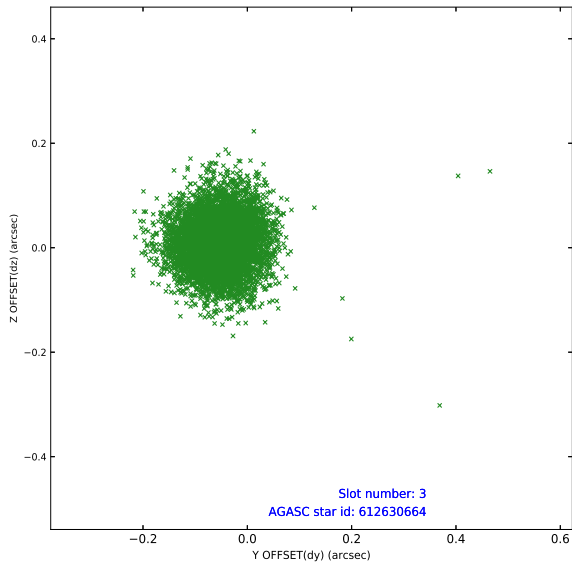
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	3216	1.000	-0.074	-0.081	0.009	0.014	0.000000	0.000000	-759.16	-1730
1	FID		ACIS-S-4	7.20	3216	1.000	0.142	0.057	0.009	0.015	0.000000	0.000000	2154.15	178
2	FID		ACIS-S-5	7.23	3216	1.000	-0.100	0.033	0.007	0.012	0.000000	0.000000	-1811.58	172
3	GUIDE	used	612630664	8.85	6431	1.000	-0.054	0.007	0.071	0.115	12.819163	-0.535703	1046.95	-1259
4	GUIDE	used	612631504	9.44	6429	1.000	0.089	-0.030	0.115	0.189	12.867412	-1.284411	-1616.69	-814
5	GUIDE	used	612632448	9.48	6362	1.000	0.067	-0.024	0.096	0.155	12.770487	-1.004330	-555.94	-704
6	GUIDE	used	612633056	9.39	6431	1.000	-0.016	0.026	0.109	0.178	13.071720	-0.364507	1439.57	-2285
7	GUIDE	used	612633288	8.51	6430	1.000	-0.086	0.021	0.070	0.115	12.908194	-0.488403	1139.71	-1610

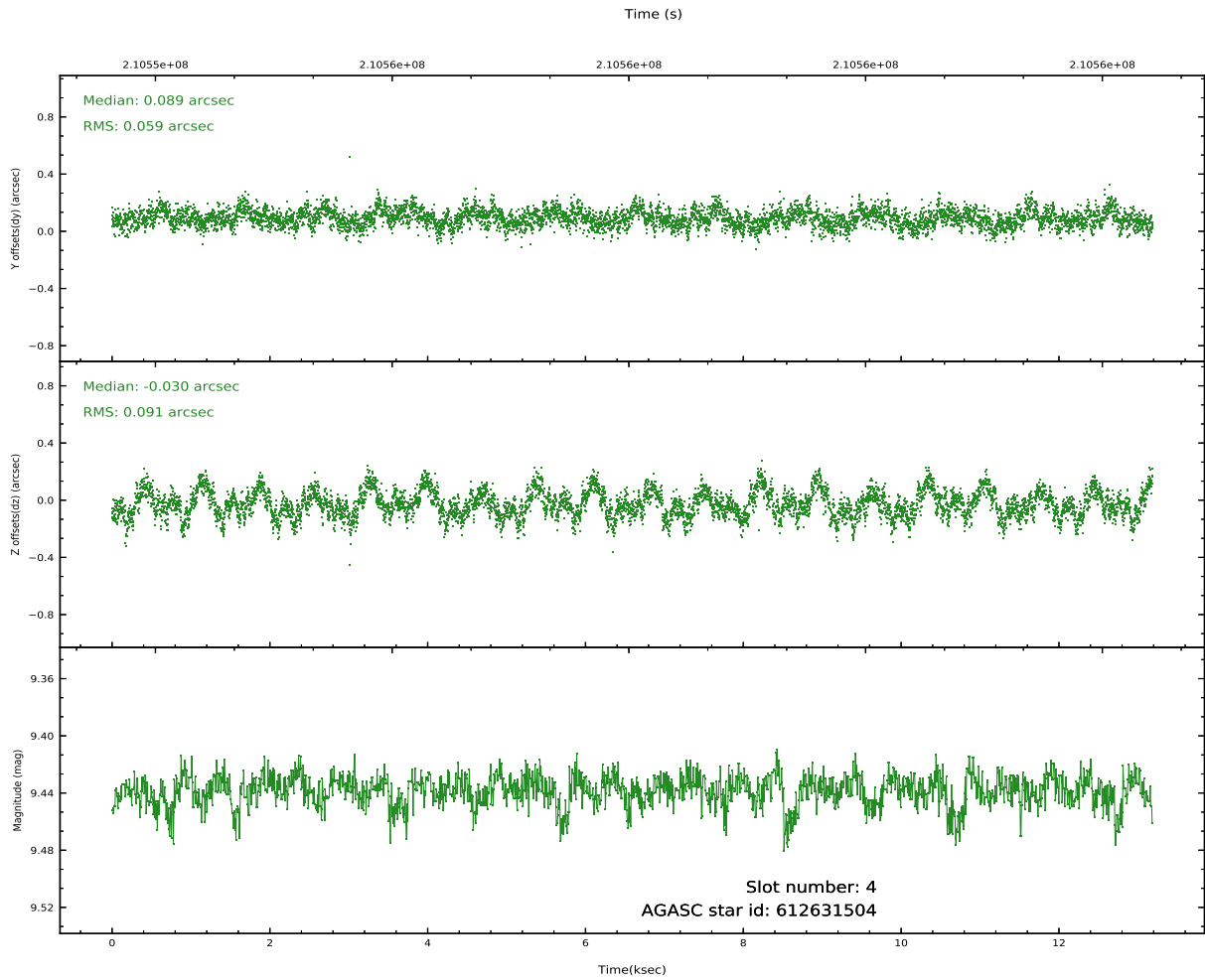
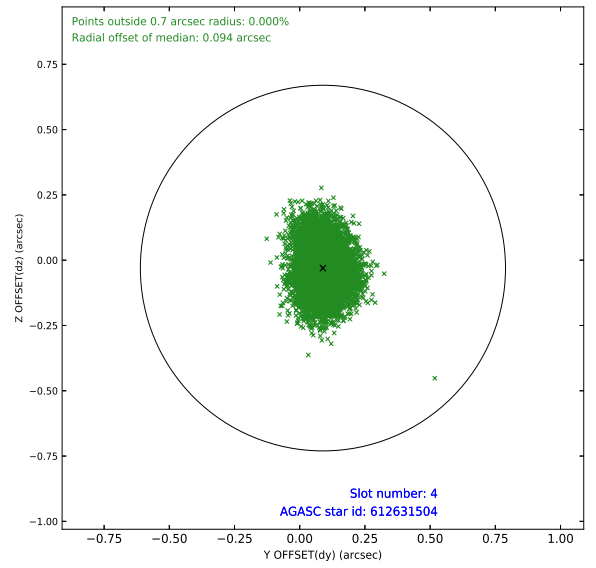
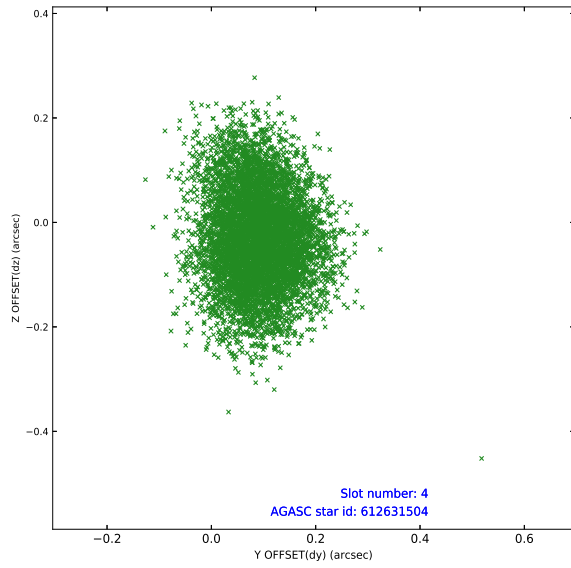
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2.4 Star Slots

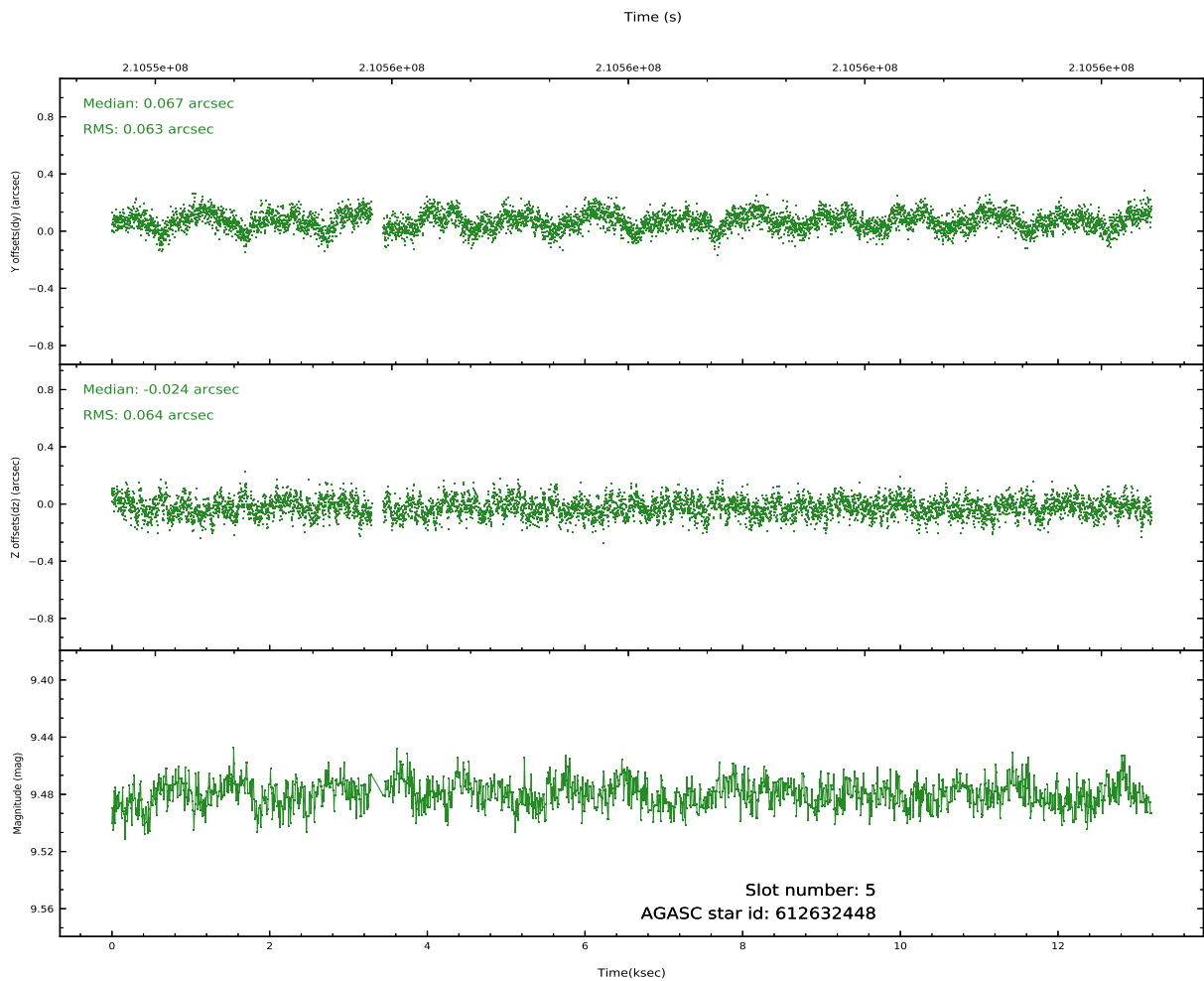
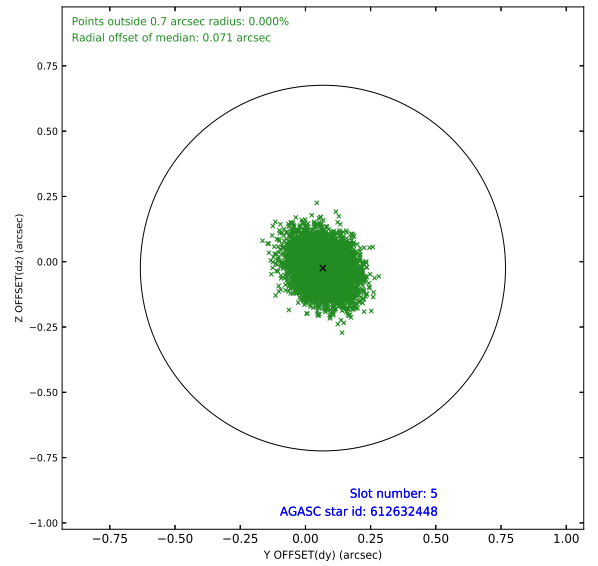
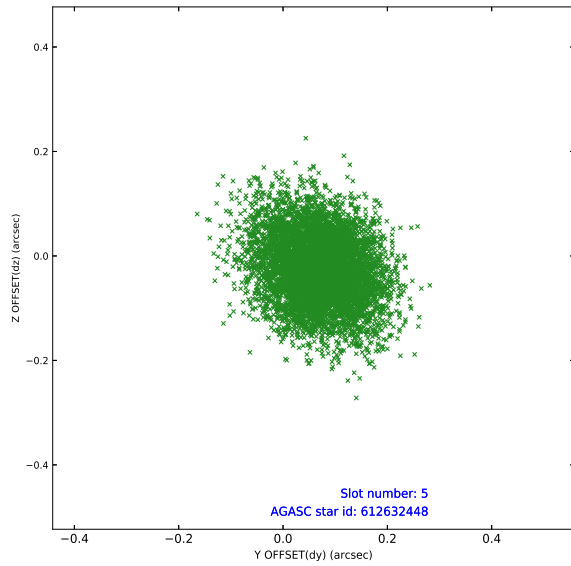
2.4.1 Slot 3



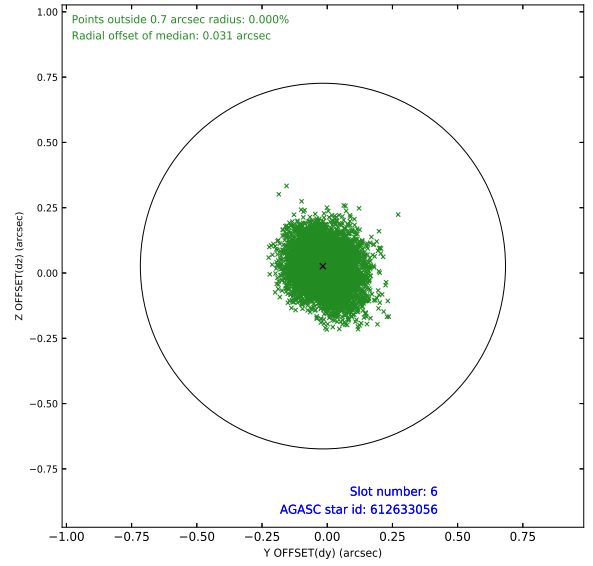
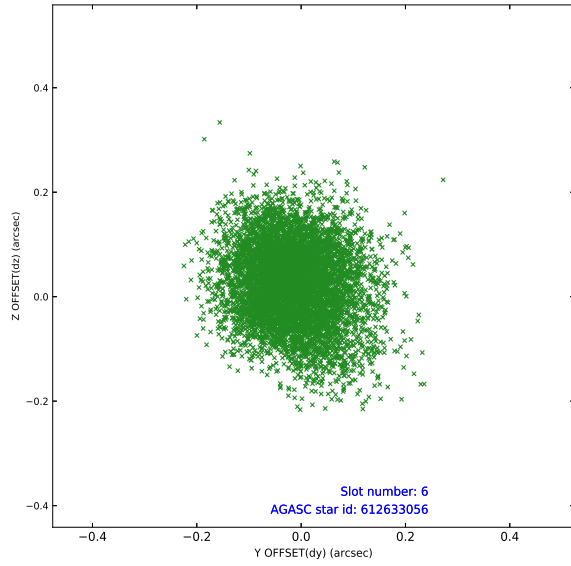
2.4.2 Slot 4



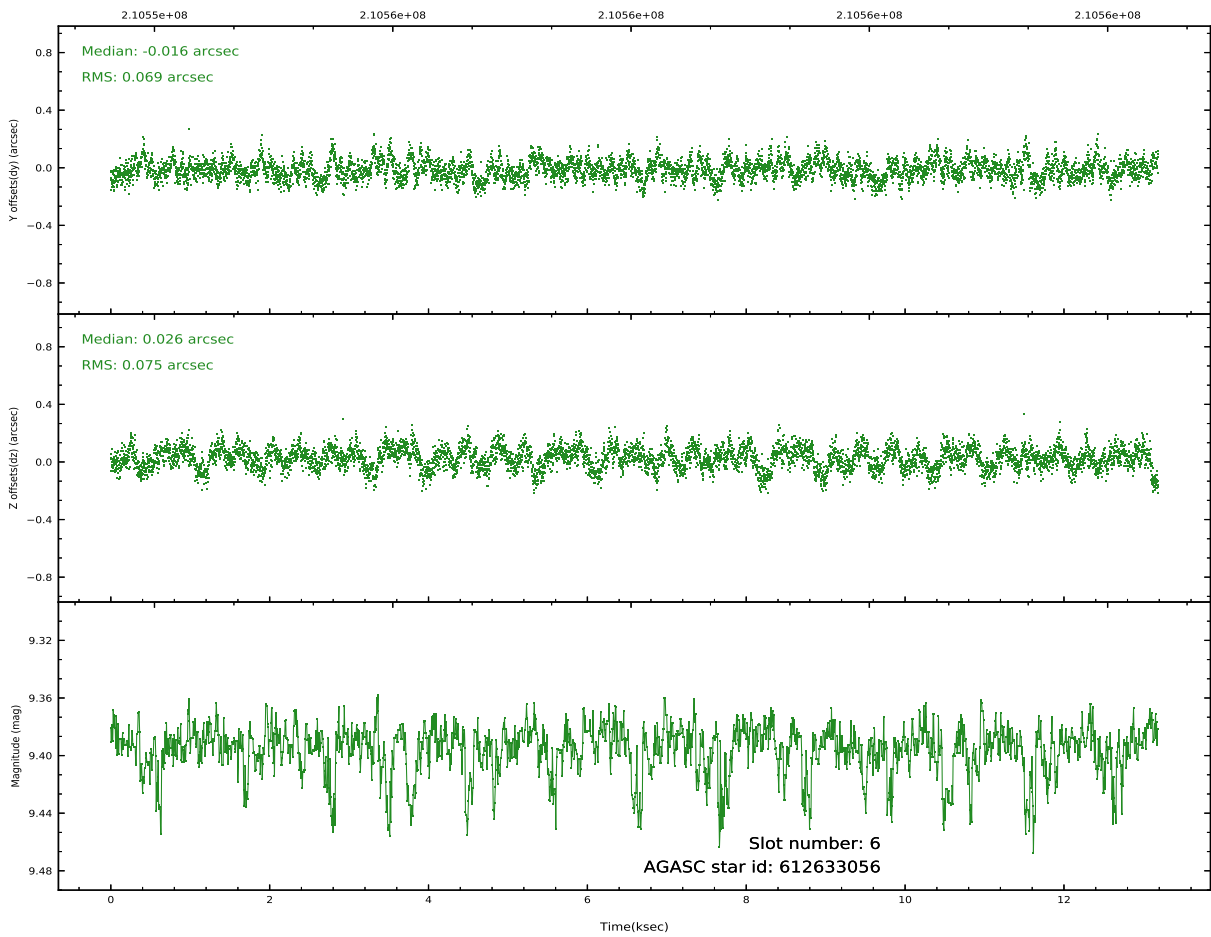
2.4.3 Slot 5



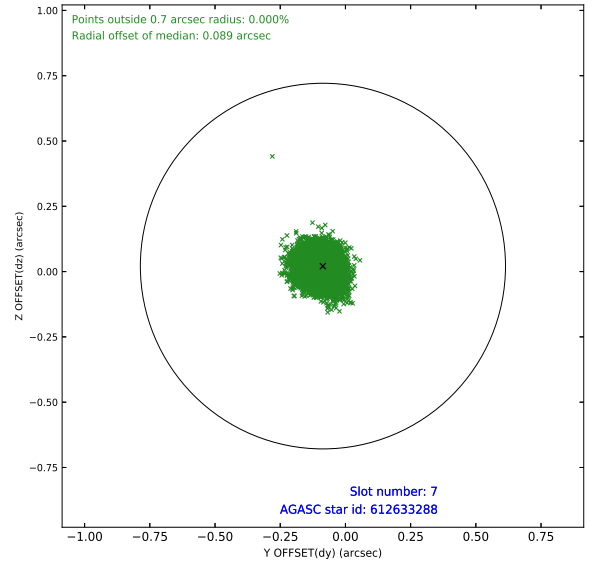
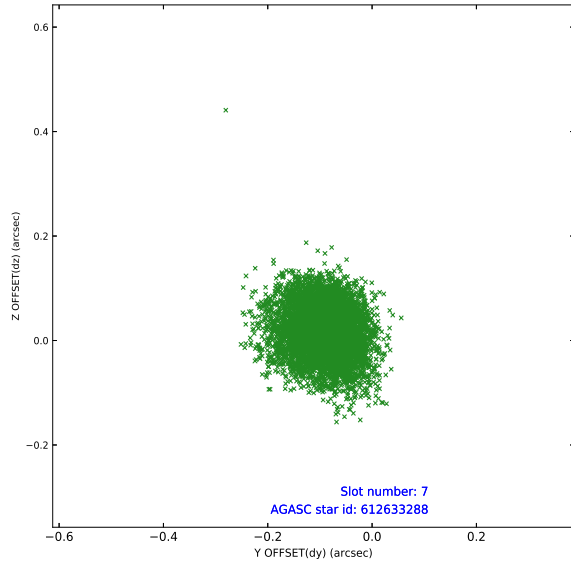
2.4.4 Slot 6



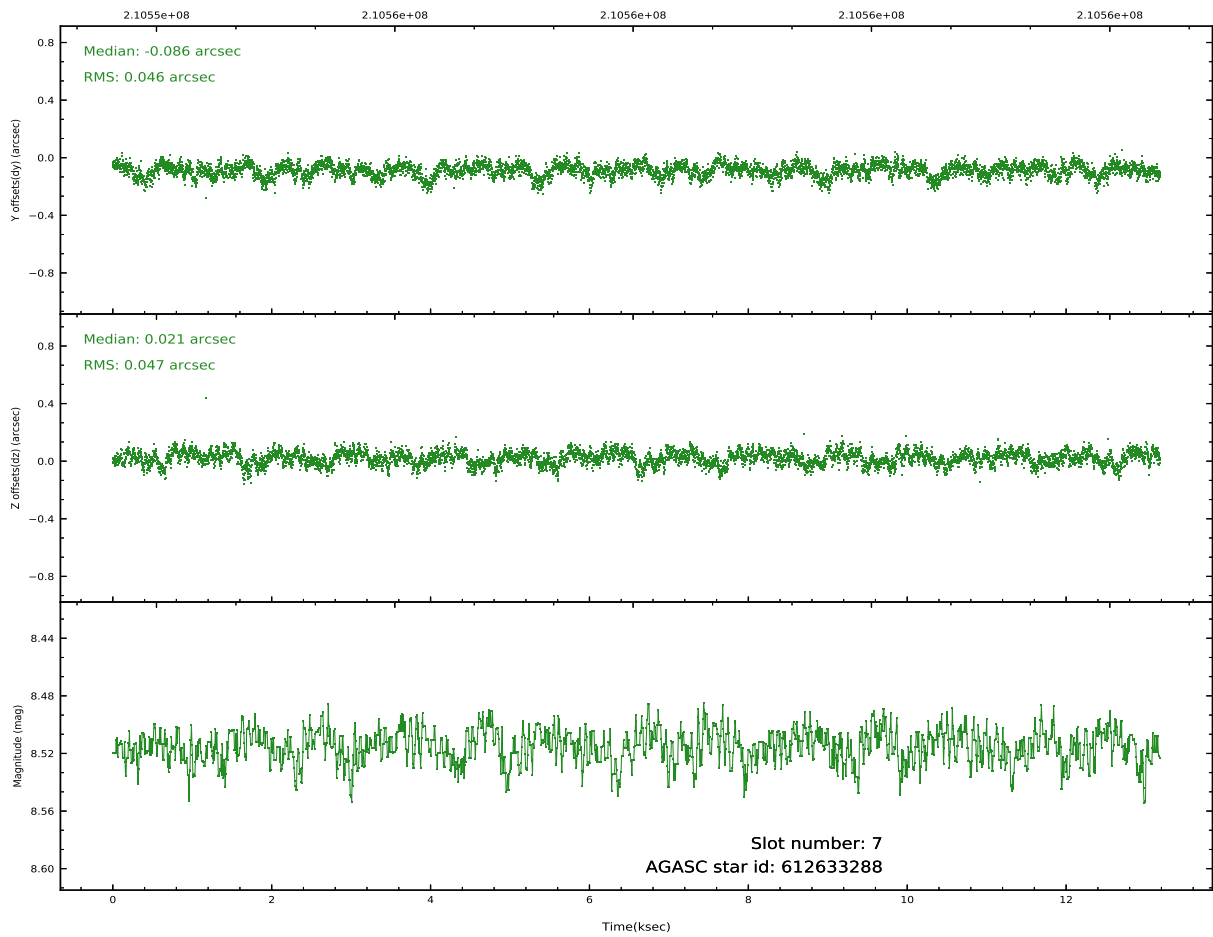
Time (s)



2.4.5 Slot 7

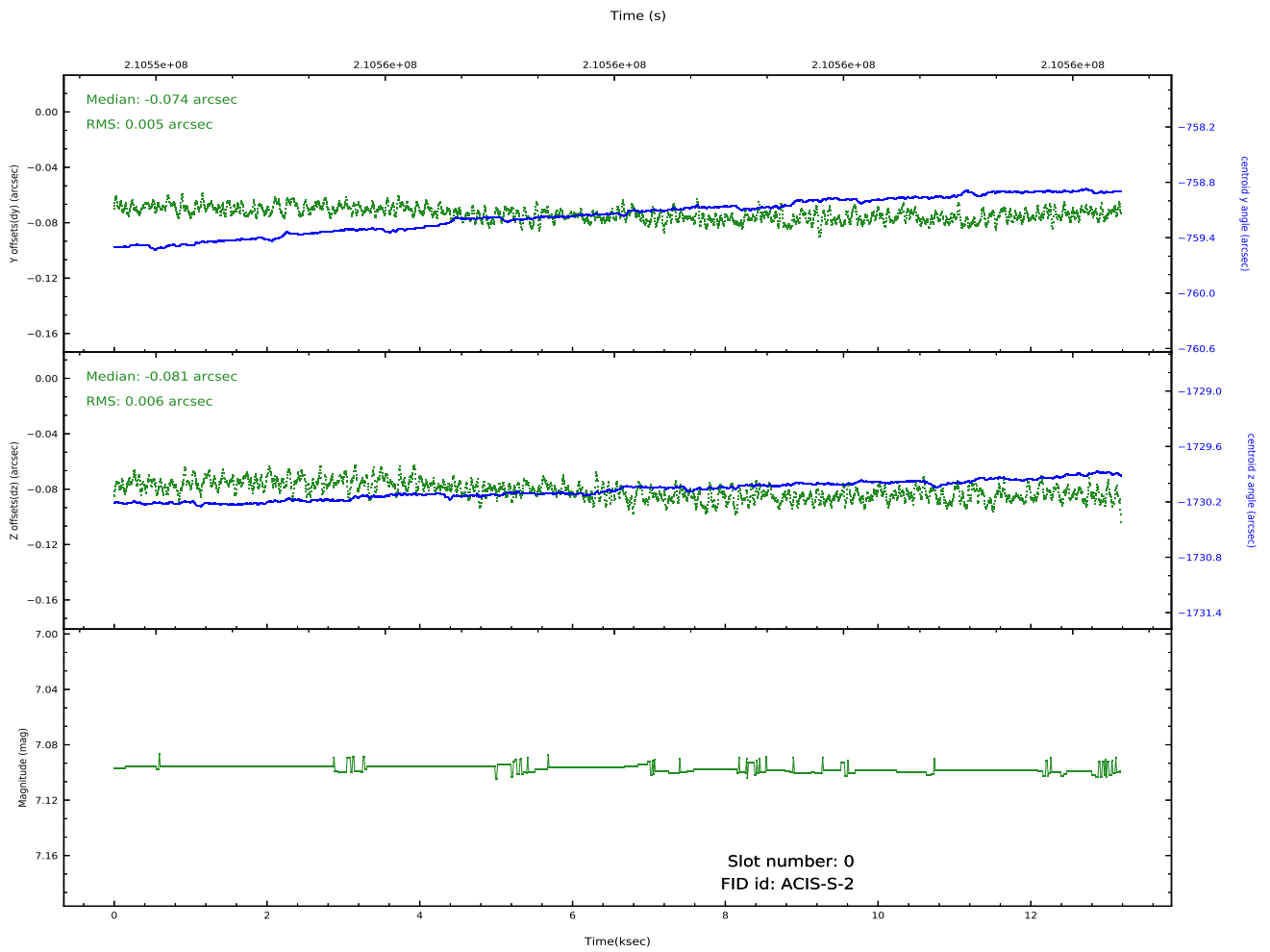
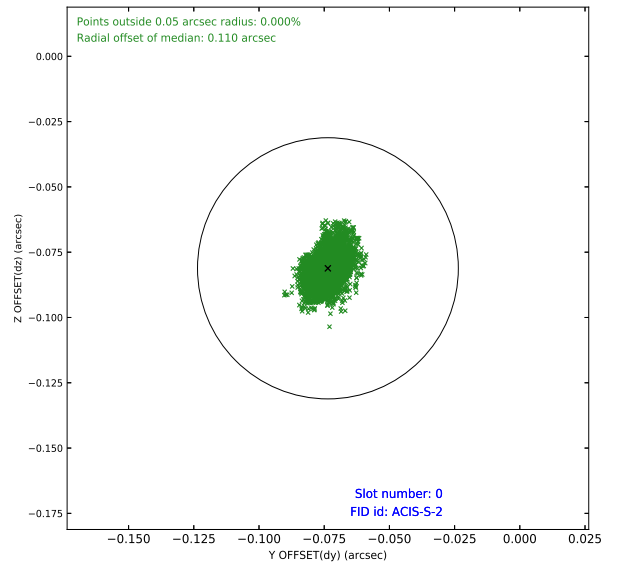
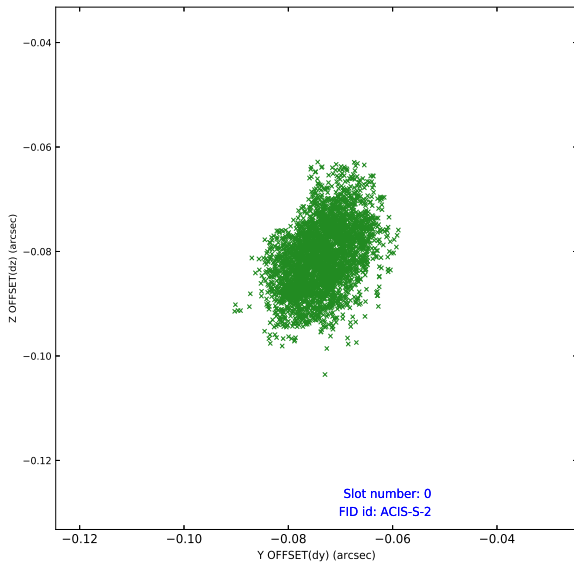


Time (s)

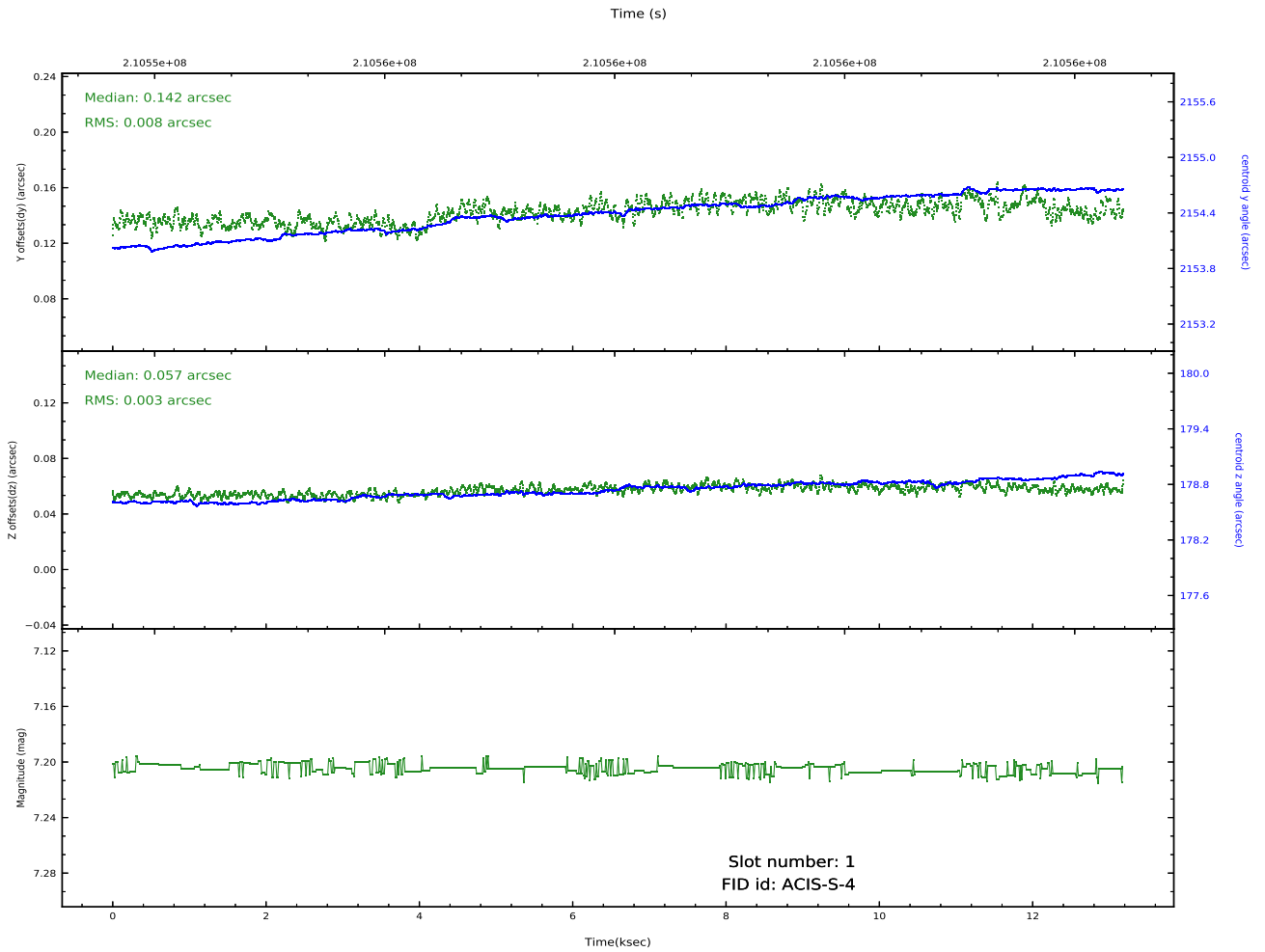
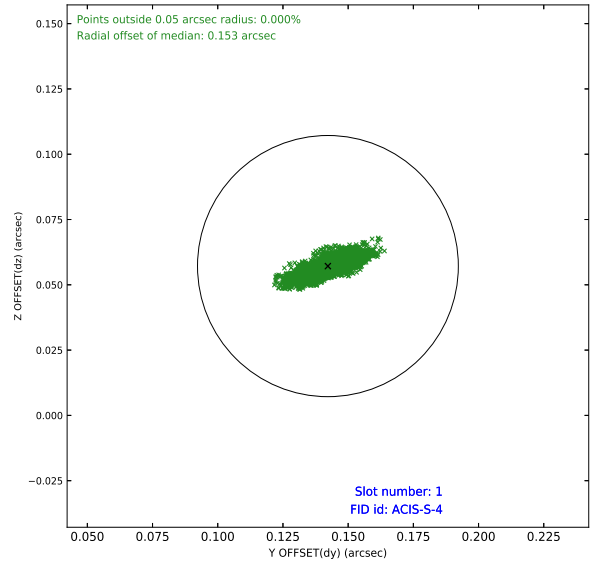
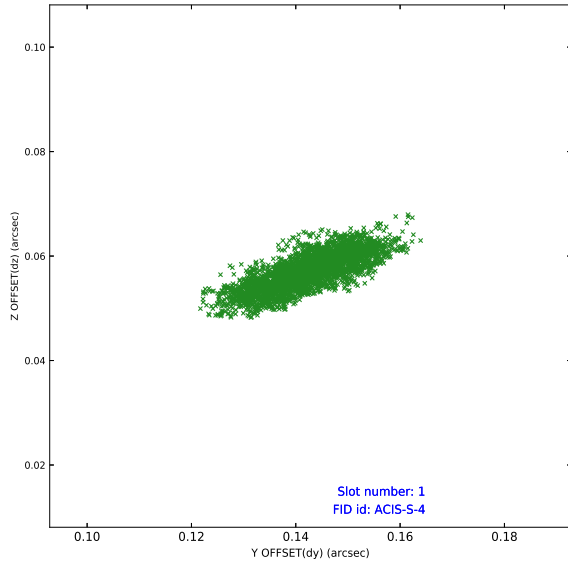


2.5 FID Slots

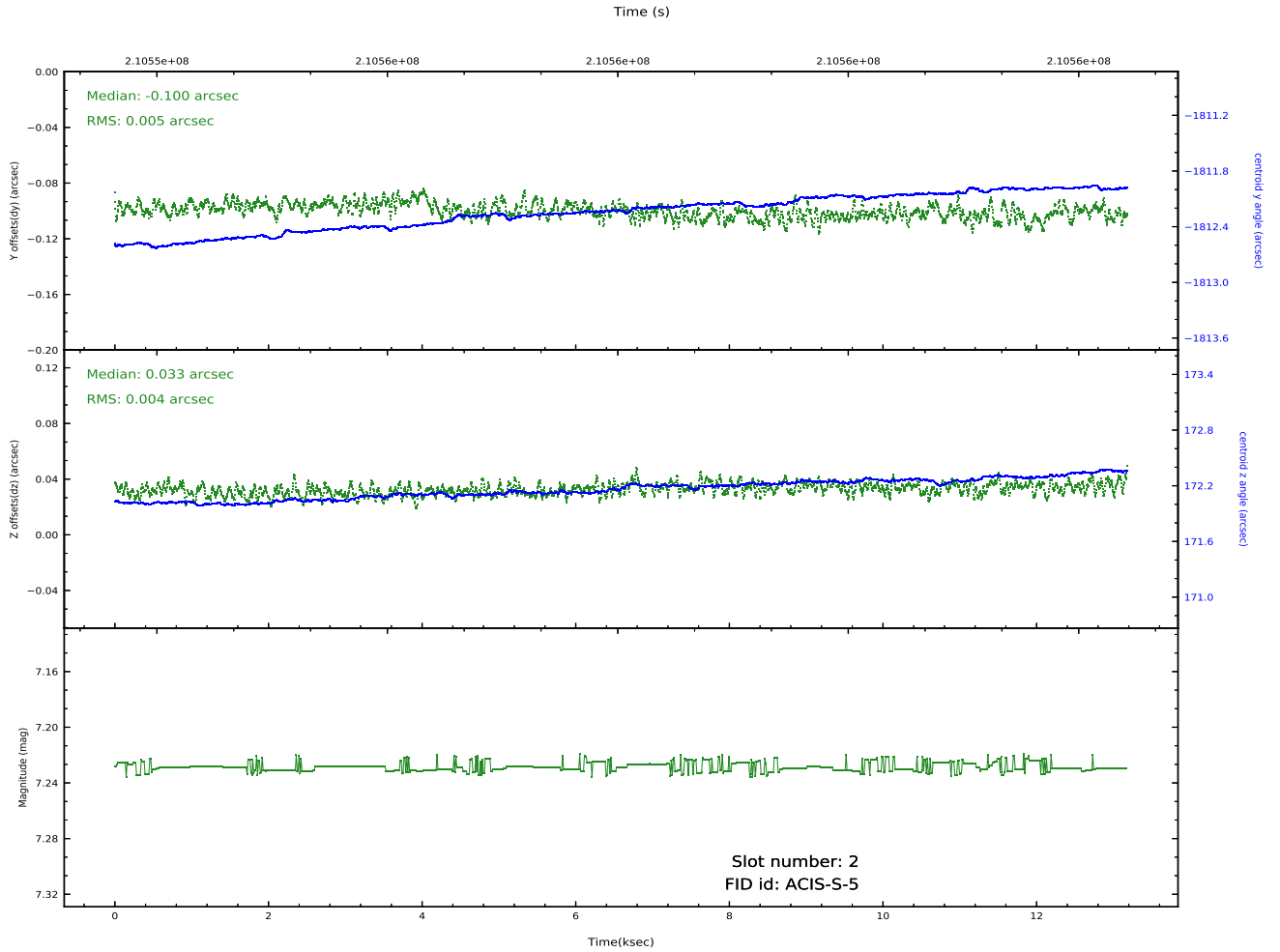
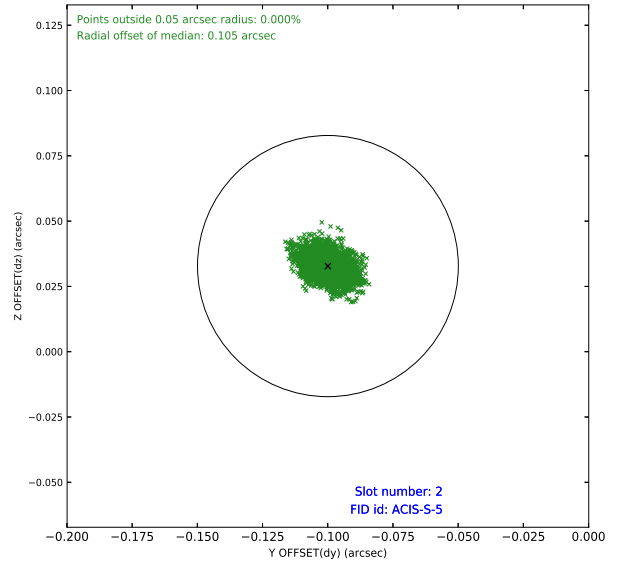
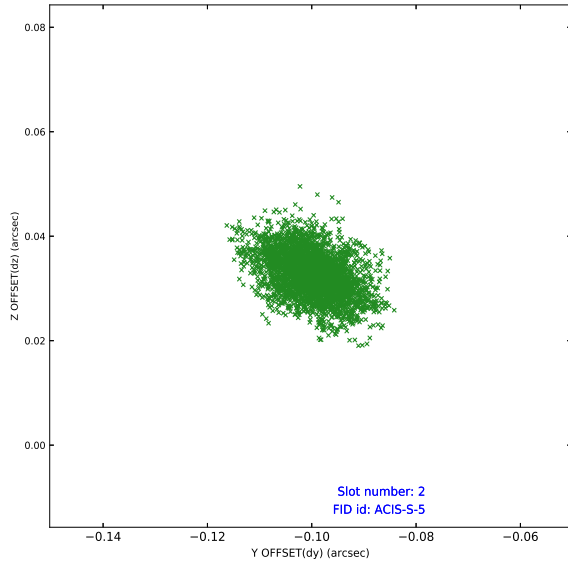
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.181

A.2 Comments