

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4757 - L2 Version 7
Chandra X-Ray Center

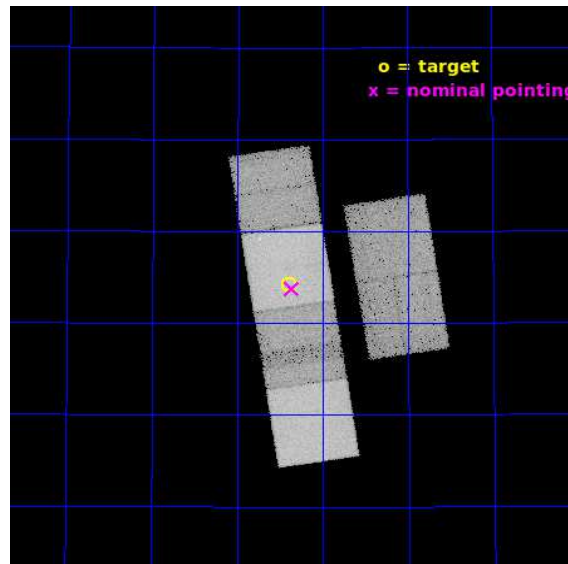
L2 Processing Date : Sep 27 2020

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1 Front

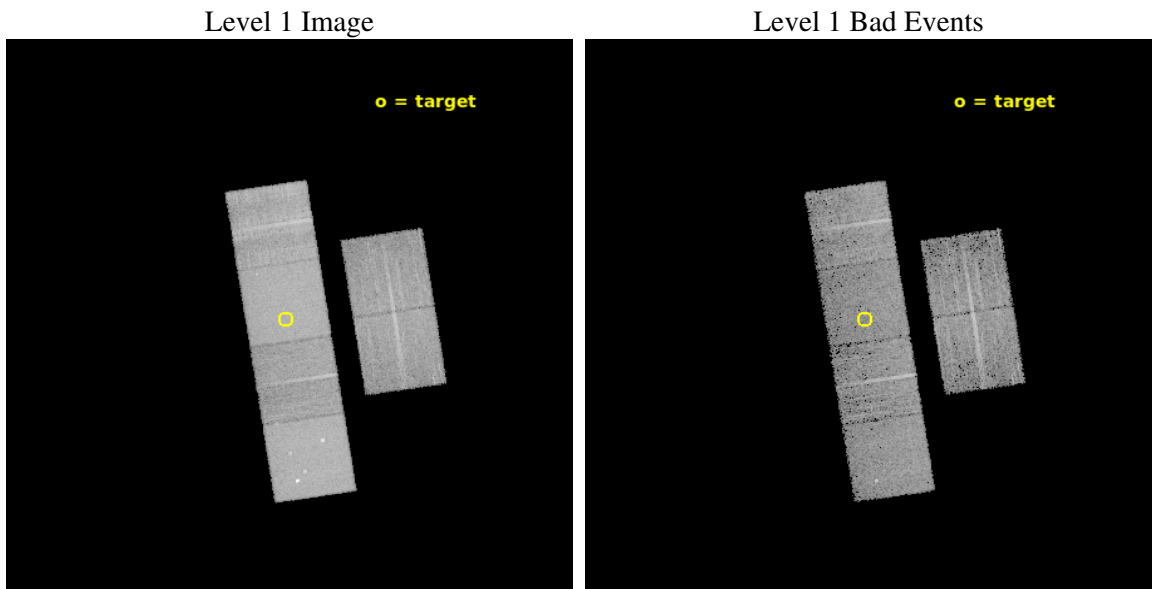
seq_num	700843	Sequence number
obs_id	4757	Observation id
title	Chandra follow-up of giant-amplitude X-ray flares	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	RX J1420.4+5334	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.100833	Observer's specified target RA [deg]
dec_targ	53.569722	Observer's specified target Dec [deg]
ra_nom	215.09055347526	Nominal RA [deg]
dec_nom	53.562877932785	Nominal Dec [deg]
roll_nom	261.18169322387	Nominal Roll [deg]
revision	7	Processing version of data
ontime	6508.7999757528	Sum of GTIs [s]
livetime	6426.381631331	Livetime [s]
ontime2	6508.7999757528	Sum of GTIs [s]
ontime3	6508.7999757528	Sum of GTIs [s]
ontime5	6508.7999757528	Sum of GTIs [s]
ontime6	6508.7999757528	Sum of GTIs [s]
ontime7	6508.7999757528	Sum of GTIs [s]
ontime8	6508.7999757528	Sum of GTIs [s]
l2events	208437	Number of level 2 events



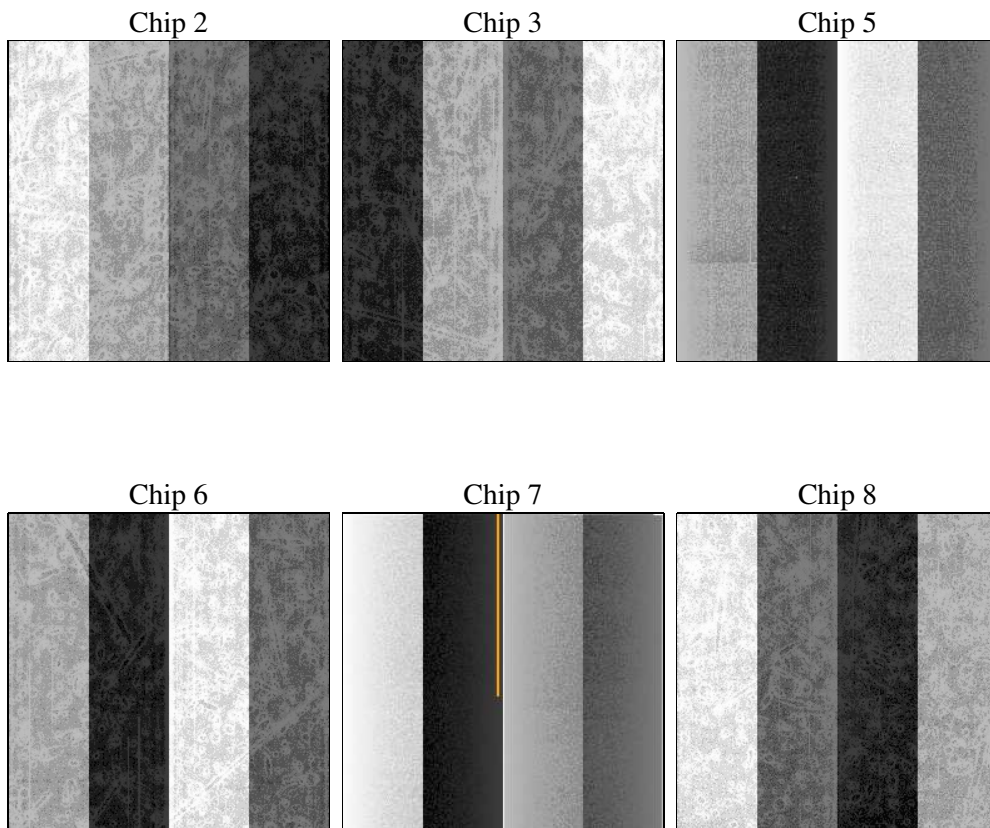
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	10005.134000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	6508.7999757528	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	6508.7999757528	Sum of GTIs [s]
date	2020-09-27T13:36:16	Date and time of file creation	ontime3	6508.7999757528	Sum of GTIs [s]
revision	7	Processing version of data	ontime5	6508.7999757528	Sum of GTIs [s]
			ontime6	6508.7999757528	Sum of GTIs [s]
			ontime7	6508.7999757528	Sum of GTIs [s]
			ontime8	6508.7999757528	Sum of GTIs [s]
			l1events	507915	Number of level 1 events

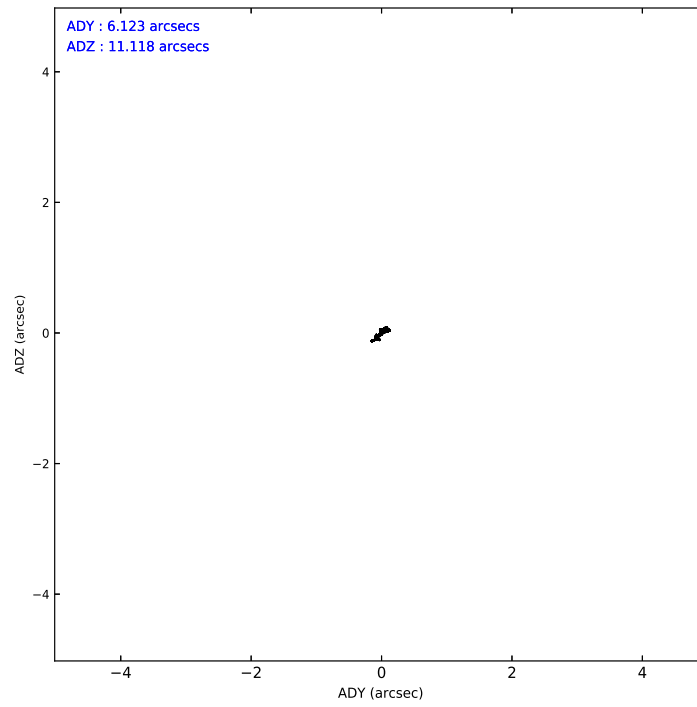
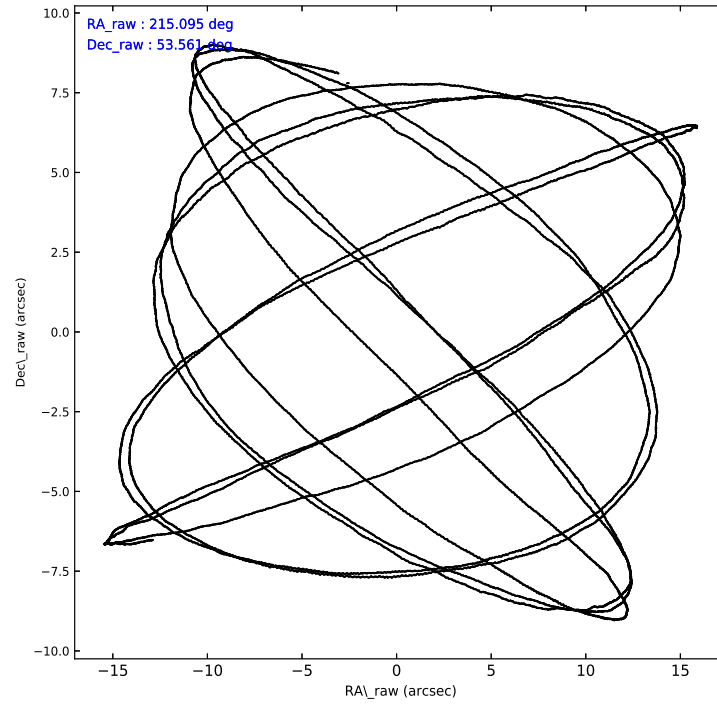
2.1.4 Events

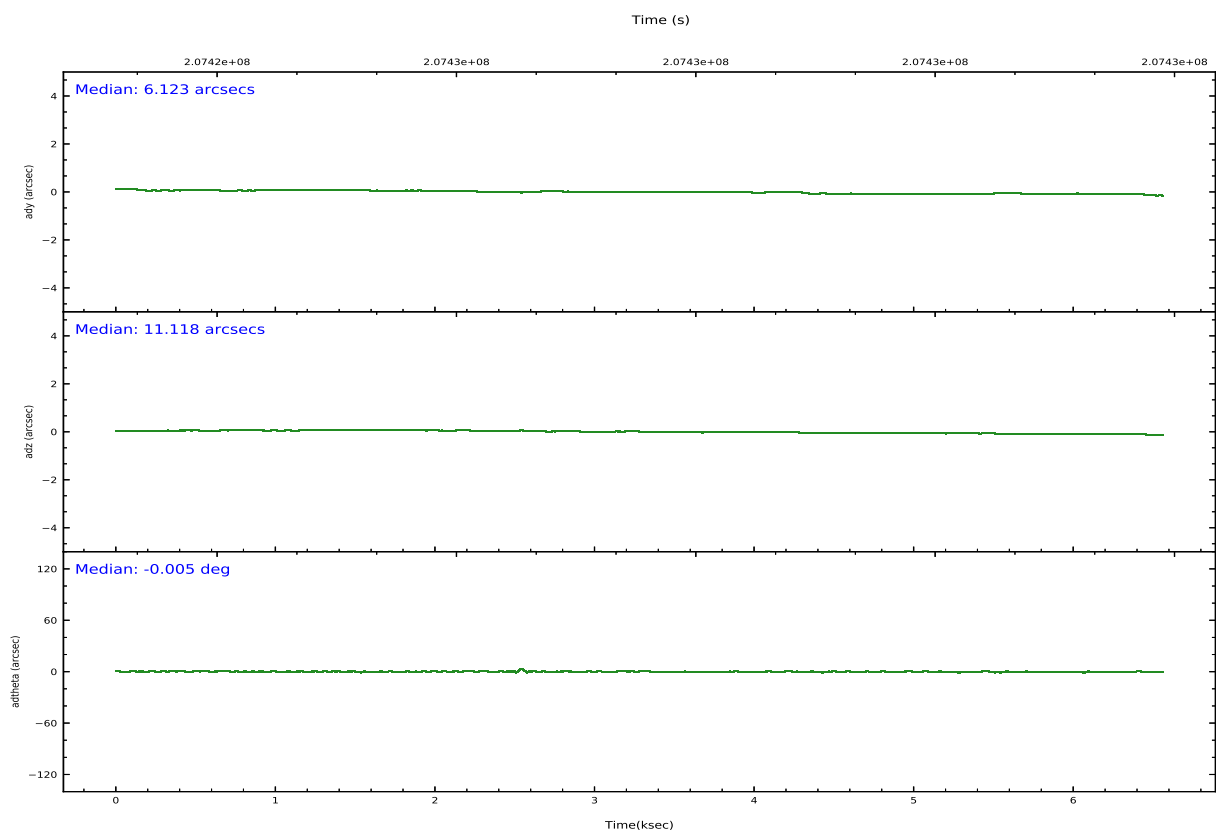
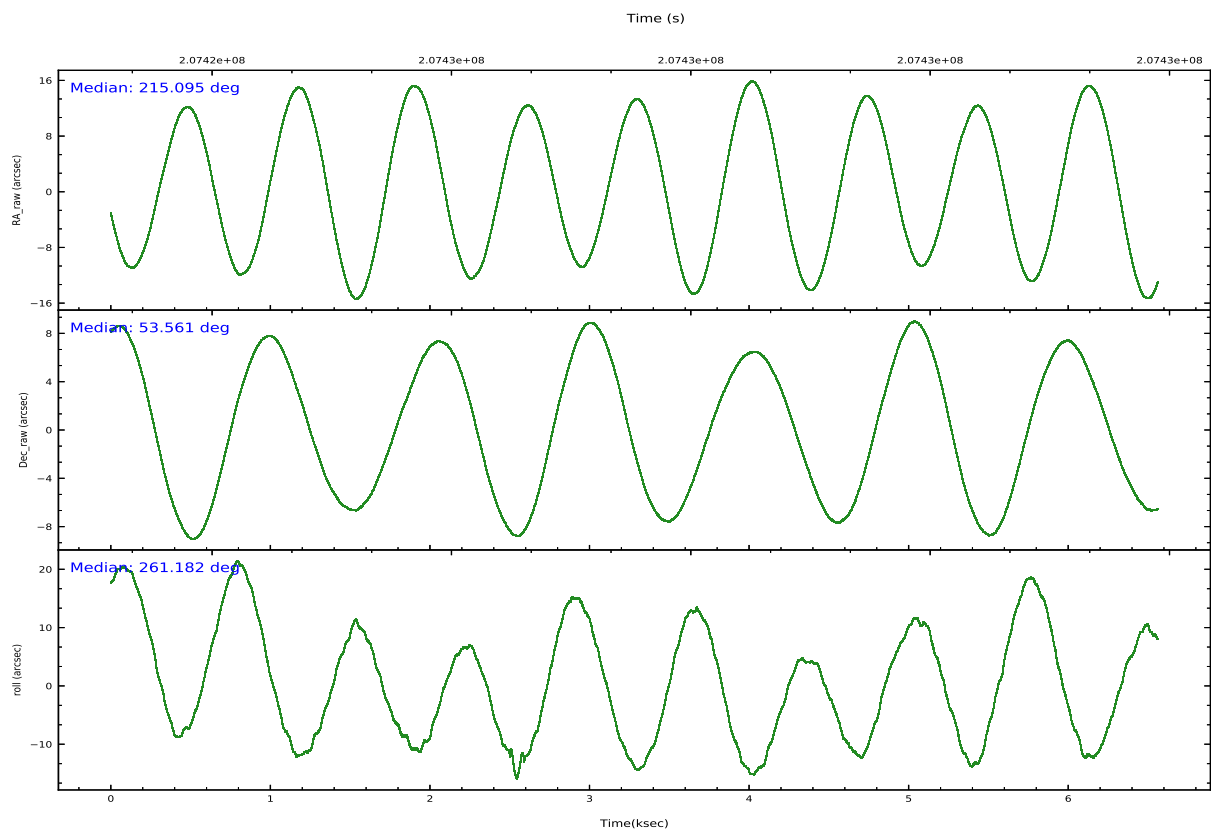
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	67562	63320	111449	68102	103136	94346	grade 0 events	13992	13737	8388	15449	6844	22345
rejected events	45992	41888	45187	43563	40321	50239		20%	21%	7%	22%	6%	23%
rejected %	68%	66%	40%	63%	39%	53%	grade 1 events	125	117	158	96	91	165
								0%	0%	0%	0%	0%	0%
							grade 2 events	3567	3798	22078	4862	11918	7434
								5%	5%	19%	7%	11%	7%
							grade 3 events	1083	1079	3013	1060	5132	4223
								1%	1%	2%	1%	4%	4%
							grade 4 events	1140	1079	3014	1073	5055	3935
								1%	1%	2%	1%	4%	4%
							grade 5 events	1890	2102	5772	2148	6440	2985
								2%	3%	5%	3%	6%	3%
							grade 6 events	2427	2380	32305	2848	36421	7130
								3%	3%	28%	4%	35%	7%
							grade 7 events	43338	39028	36721	40566	31235	46129
								64%	61%	32%	59%	30%	48%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	215.078401	215.09055347526	Subarray requested	NONE	NONE
[deg] Pointing Dec	53.585822	53.562877932785	Alternating exposures requested	N	N
[deg] Pointing Roll	261.037157	261.18169322387	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-0.6828225247311905	-0.6828225247311905			
[mm] SIM defocus	0.001444942264670179	0.001444942264670179			
[mm] SIM translation stage pos	-190.1425803651734	-190.1425803651734			
[mm] SIM translation stage offset	0.01005726120618533	0.01005726120618533			
[s] Observation start time (MET)	207423364.184000	207423364.184			
Observation start date	2004-07-28T17:35:00	2004-07-28T17:36:04			
[s] Observation end time (MET)	207429988.000000	207429988			
Observation end date	2004-07-28T19:26:28	2004-07-28T19:26:27			
Read mode	TIMED	TIMED			

2.3 Aspect



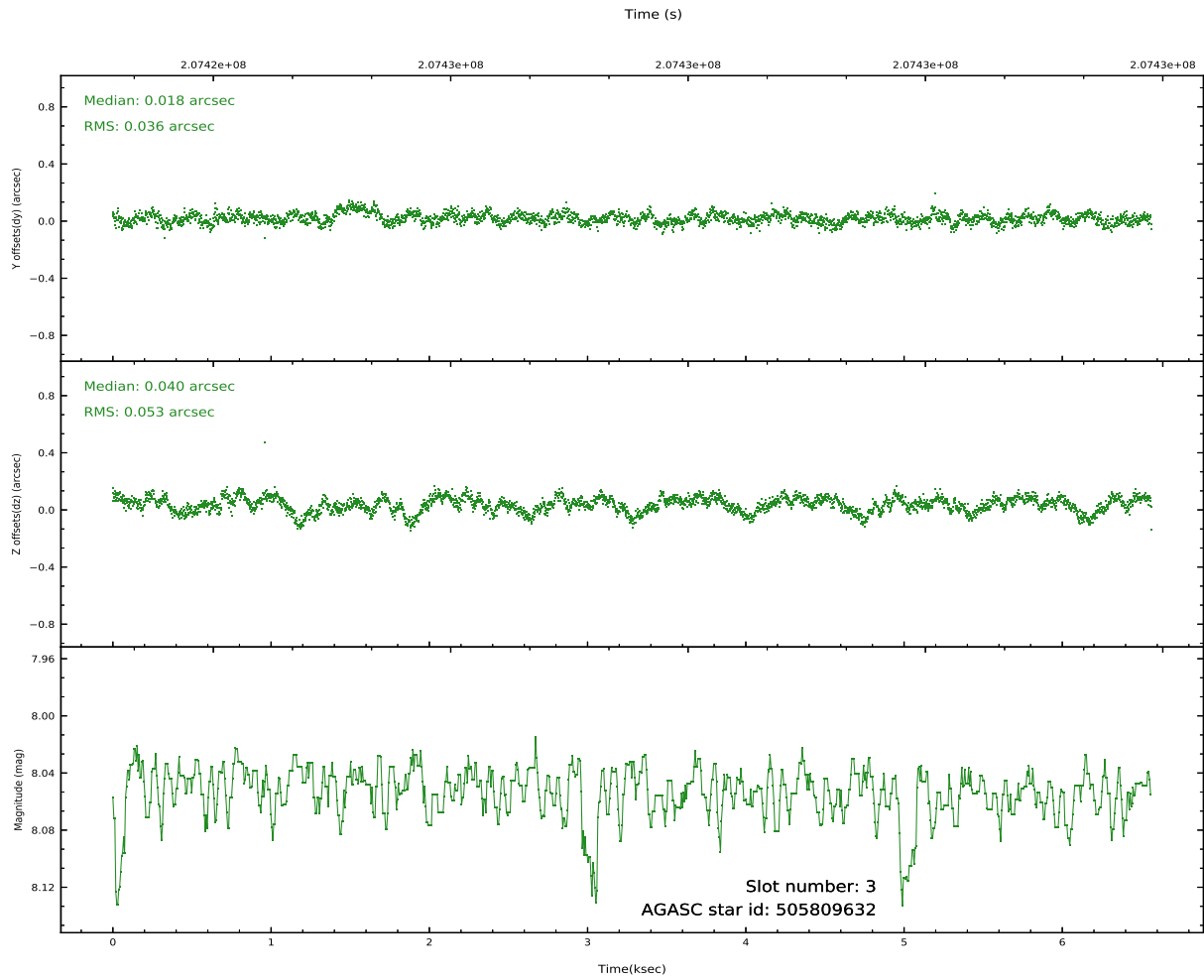
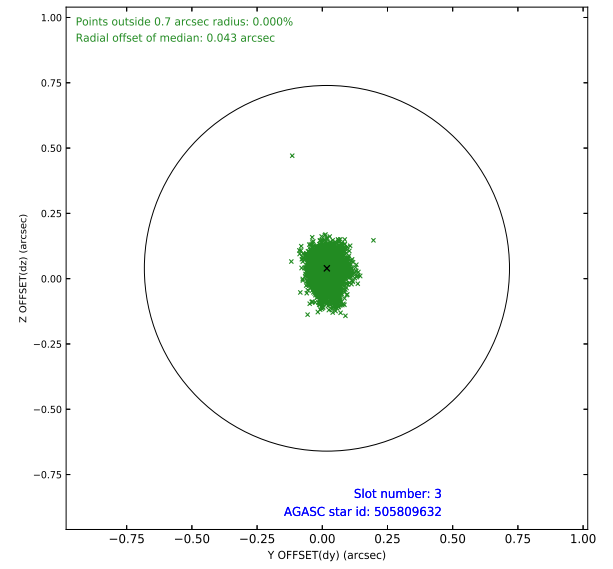
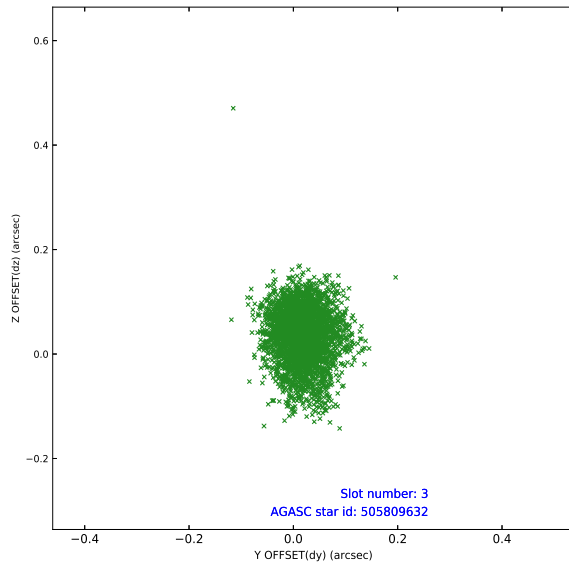


Slot Statistics

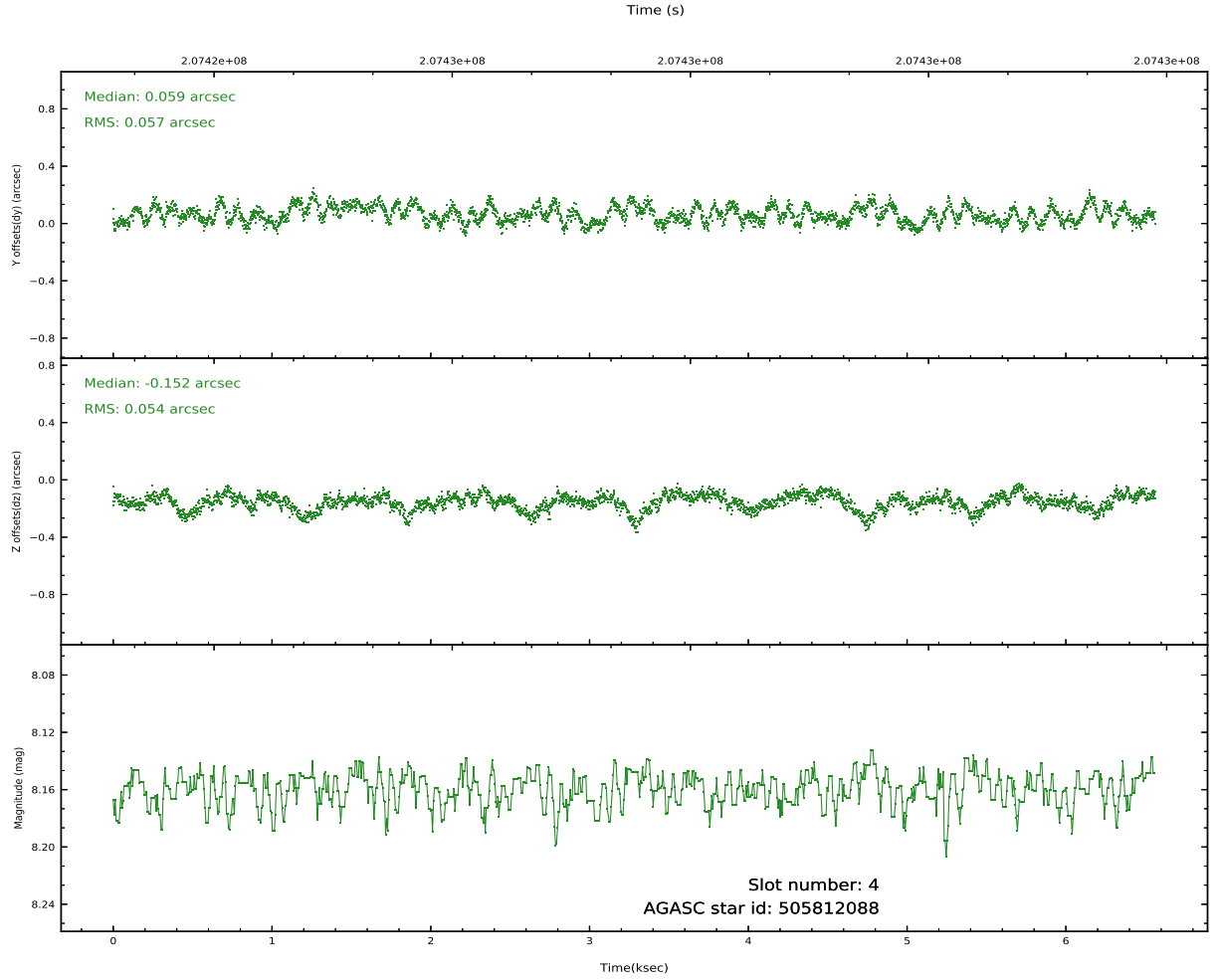
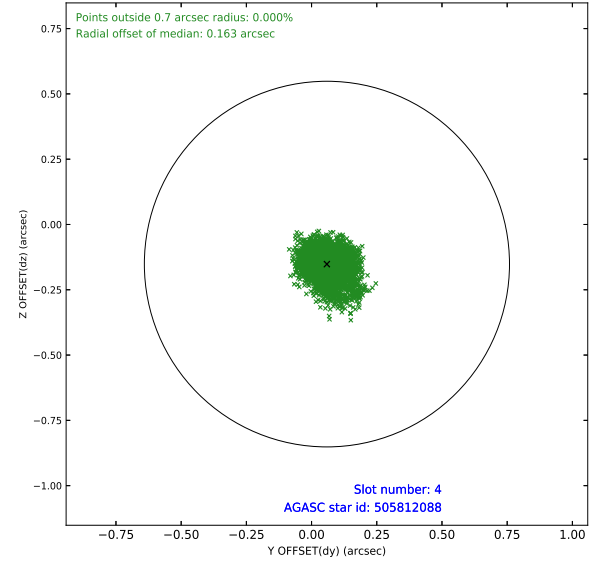
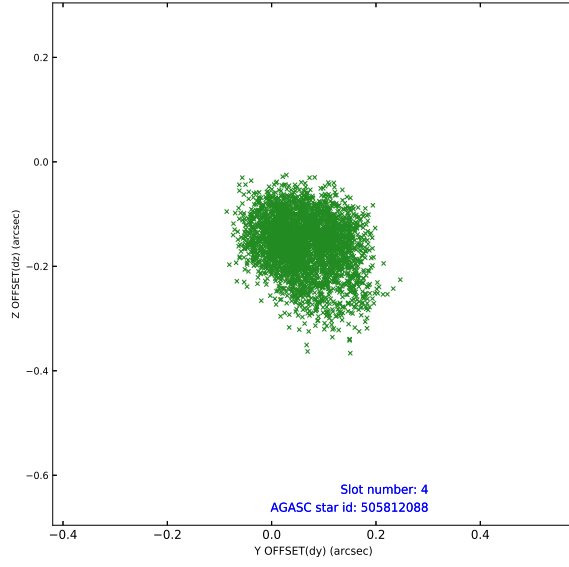
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1602	1.000	-0.089	-0.049	0.007	0.011	0.000000	0.000000	-758.89	-1732
1	FID		ACIS-S-4	7.20	1601	1.000	0.138	0.056	0.005	0.010	0.000000	0.000000	2154.16	175
2	FID		ACIS-S-5	7.23	1601	1.000	-0.081	0.003	0.006	0.011	0.000000	0.000000	-1810.63	169
3	GUIDE	used	505809632	8.05	3202	1.000	0.018	0.040	0.067	0.112	215.499426	53.521185	87.11	926
4	GUIDE	used	505812088	8.16	3200	1.000	0.059	-0.152	0.084	0.136	214.186617	53.263562	1433.86	-1717
5	GUIDE	used	505814560	7.42	3203	1.000	-0.150	0.005	0.063	0.100	215.720521	53.810357	-1016.57	1221
6	GUIDE	used	505815008	10.44	3129	1.000	0.006	-0.056	0.207	0.370	215.914204	53.713651	-742.52	1686
7	GUIDE	used	505817616	10.14	3188	1.000	0.061	0.109	0.231	0.493	216.040487	53.402541	316.34	2141

2.4 Star Slots

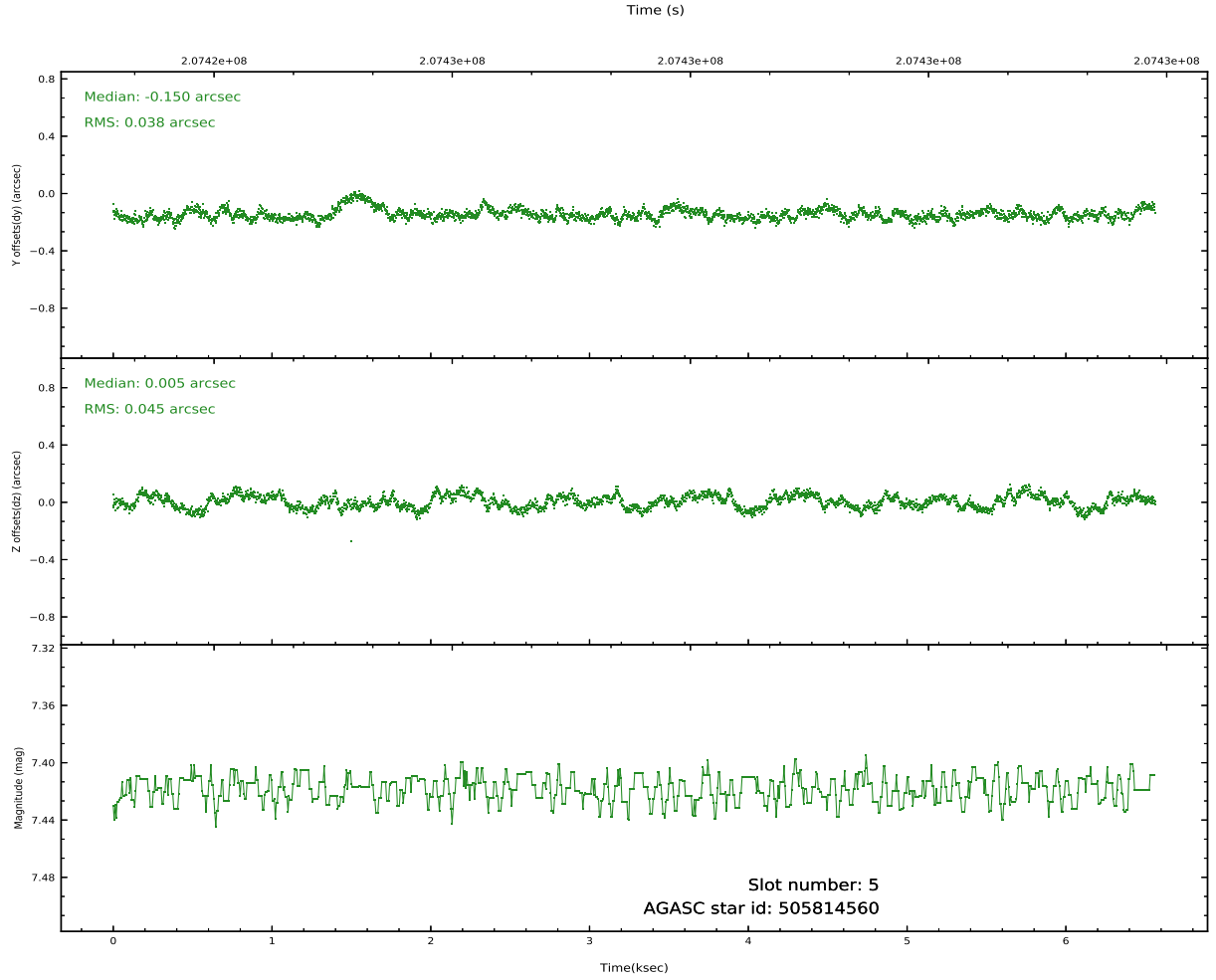
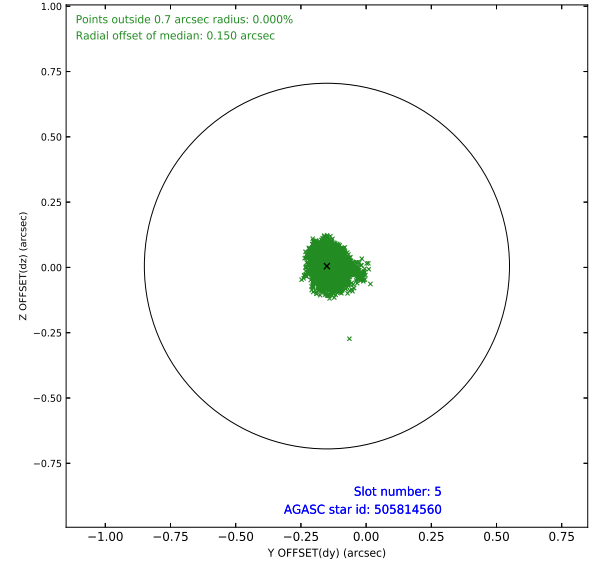
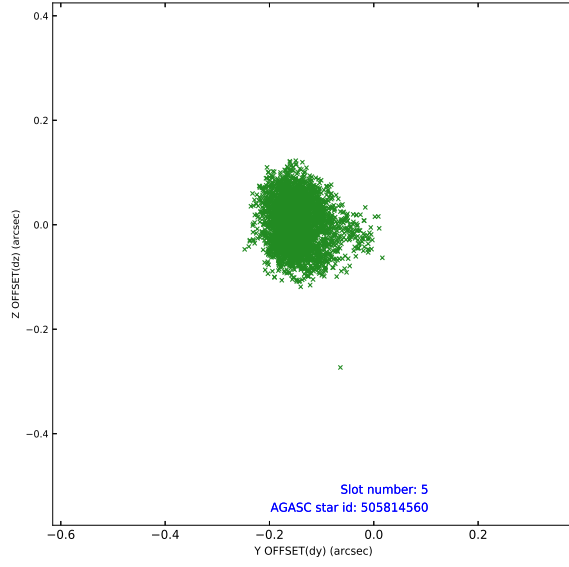
2.4.1 Slot 3



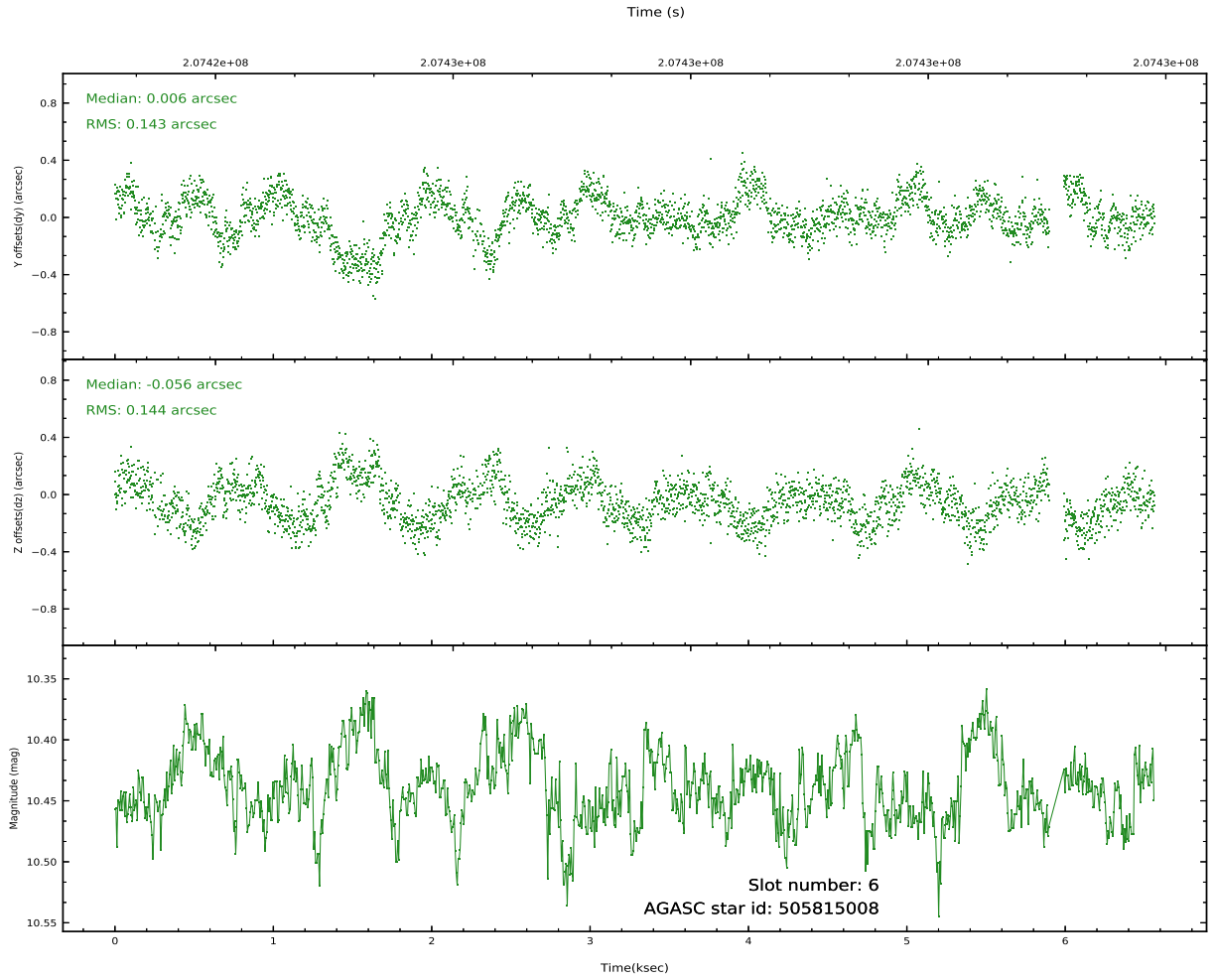
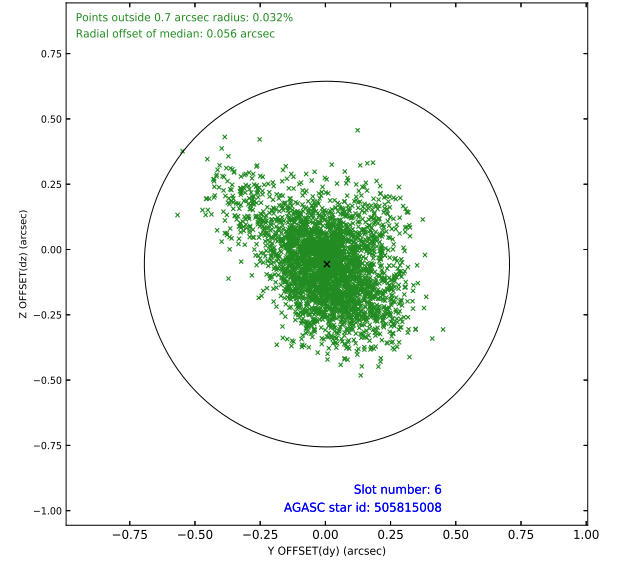
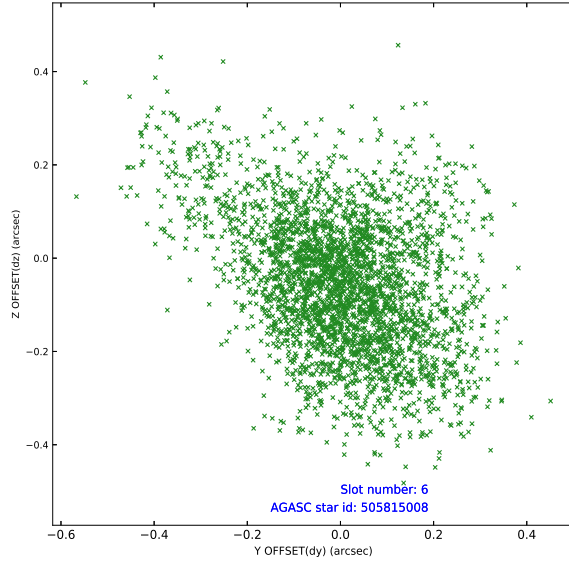
2.4.2 Slot 4



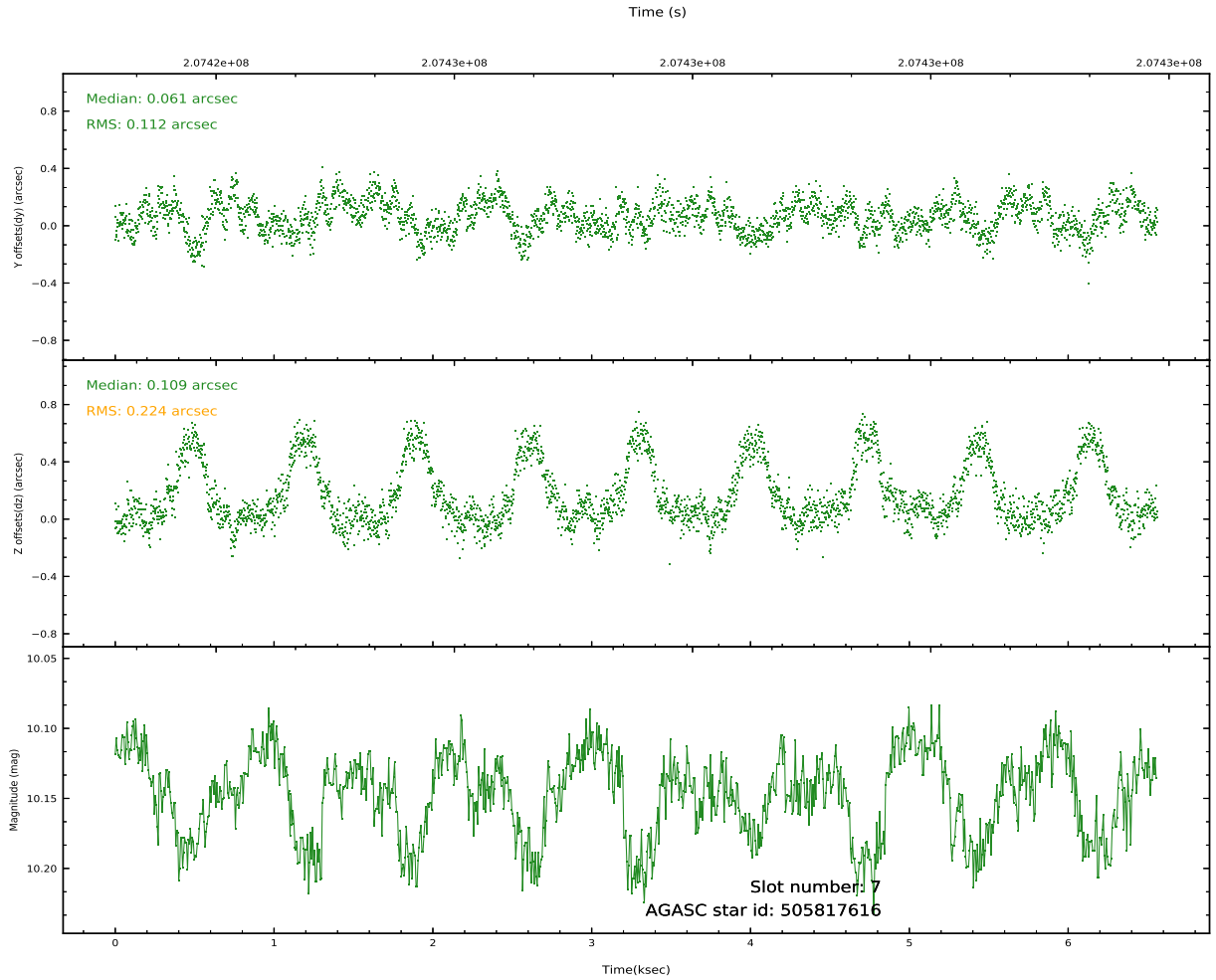
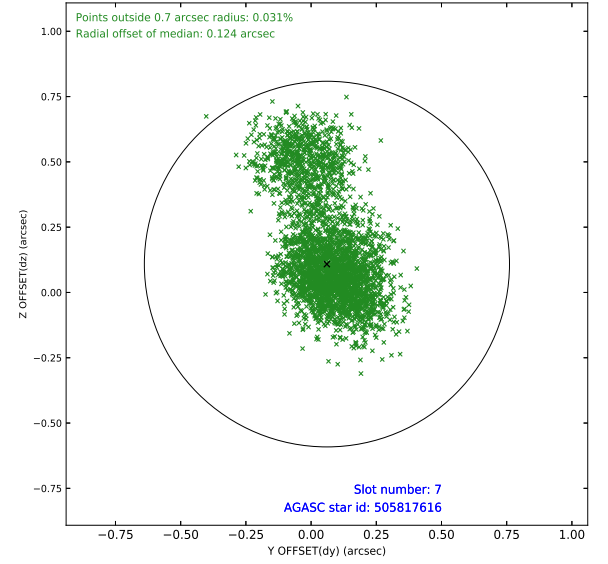
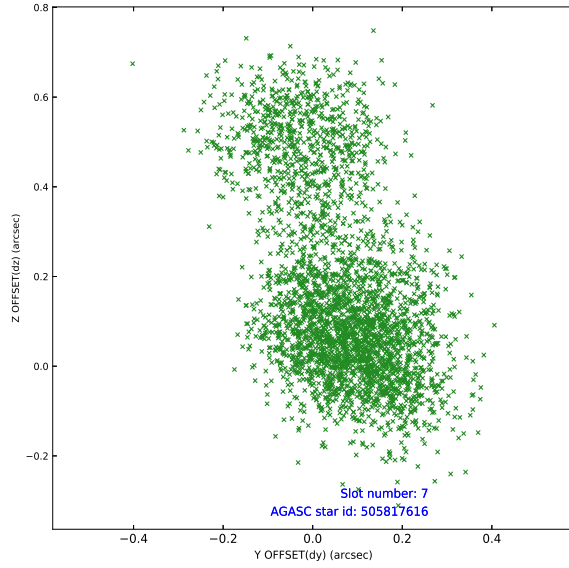
2.4.3 Slot 5



2.4.4 Slot 6

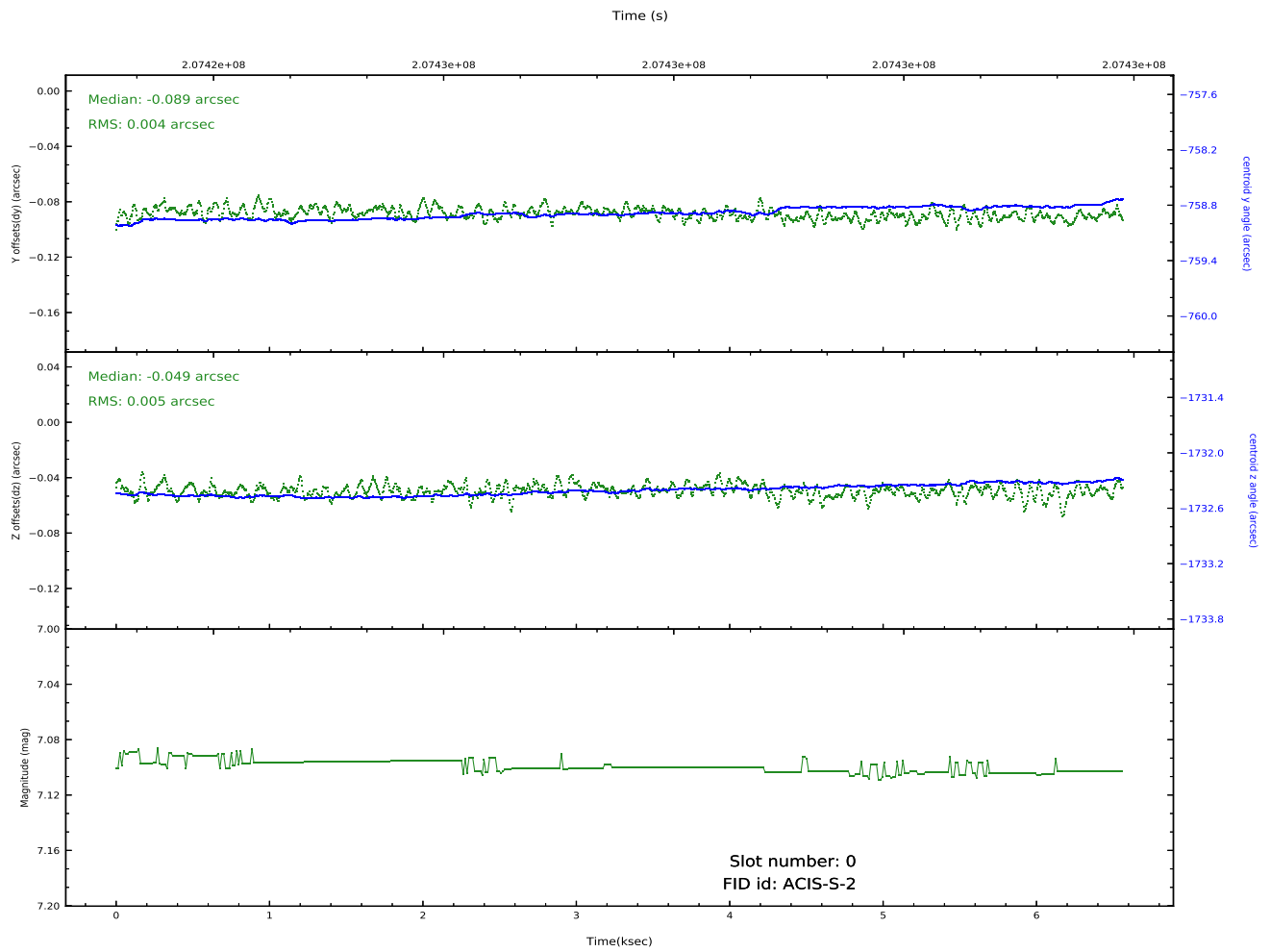
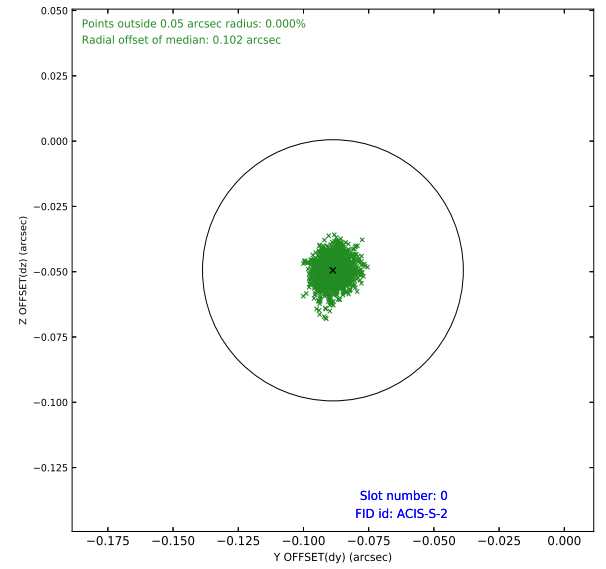
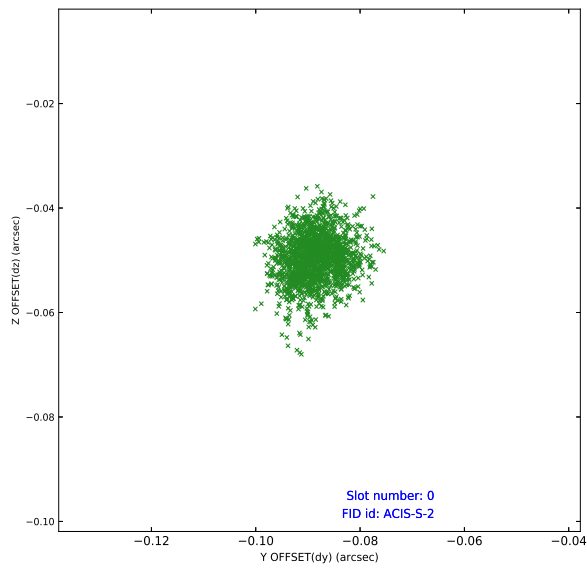


2.4.5 Slot 7

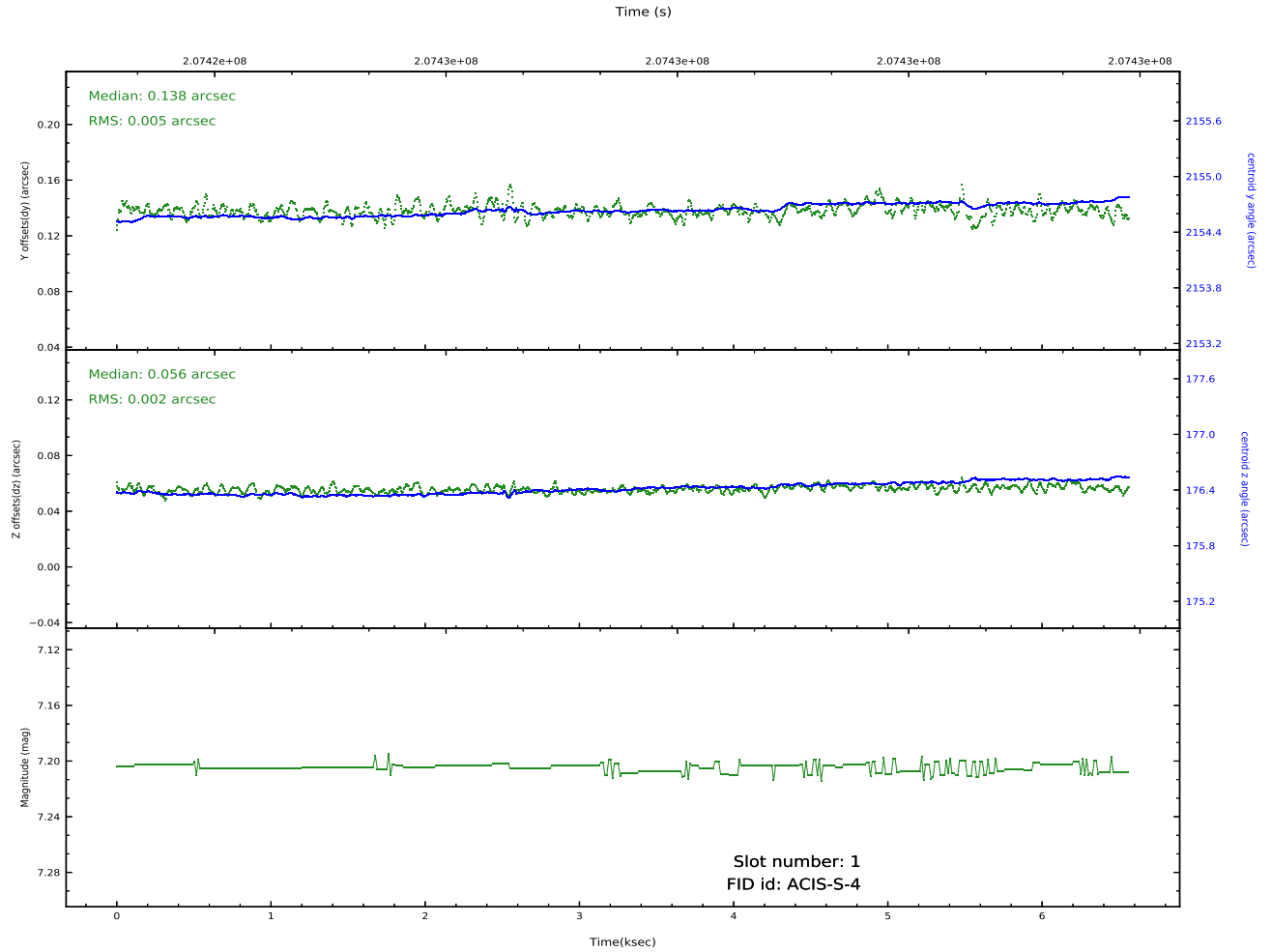
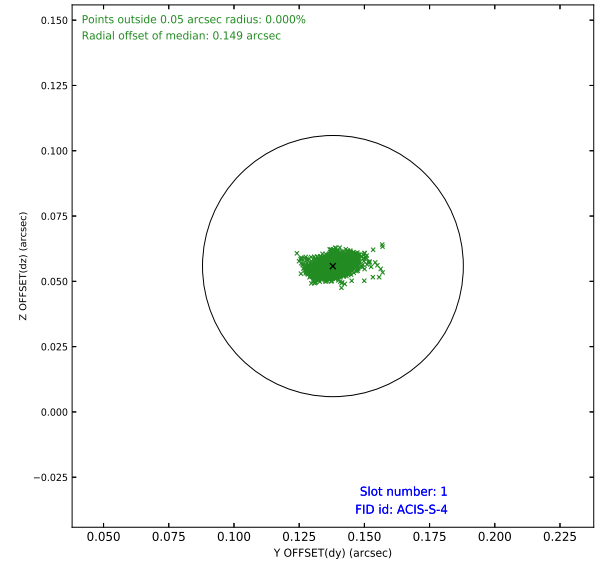
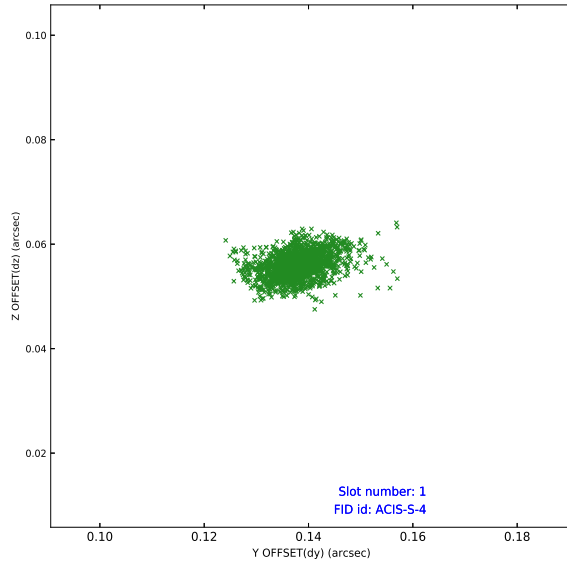


2.5 FID Slots

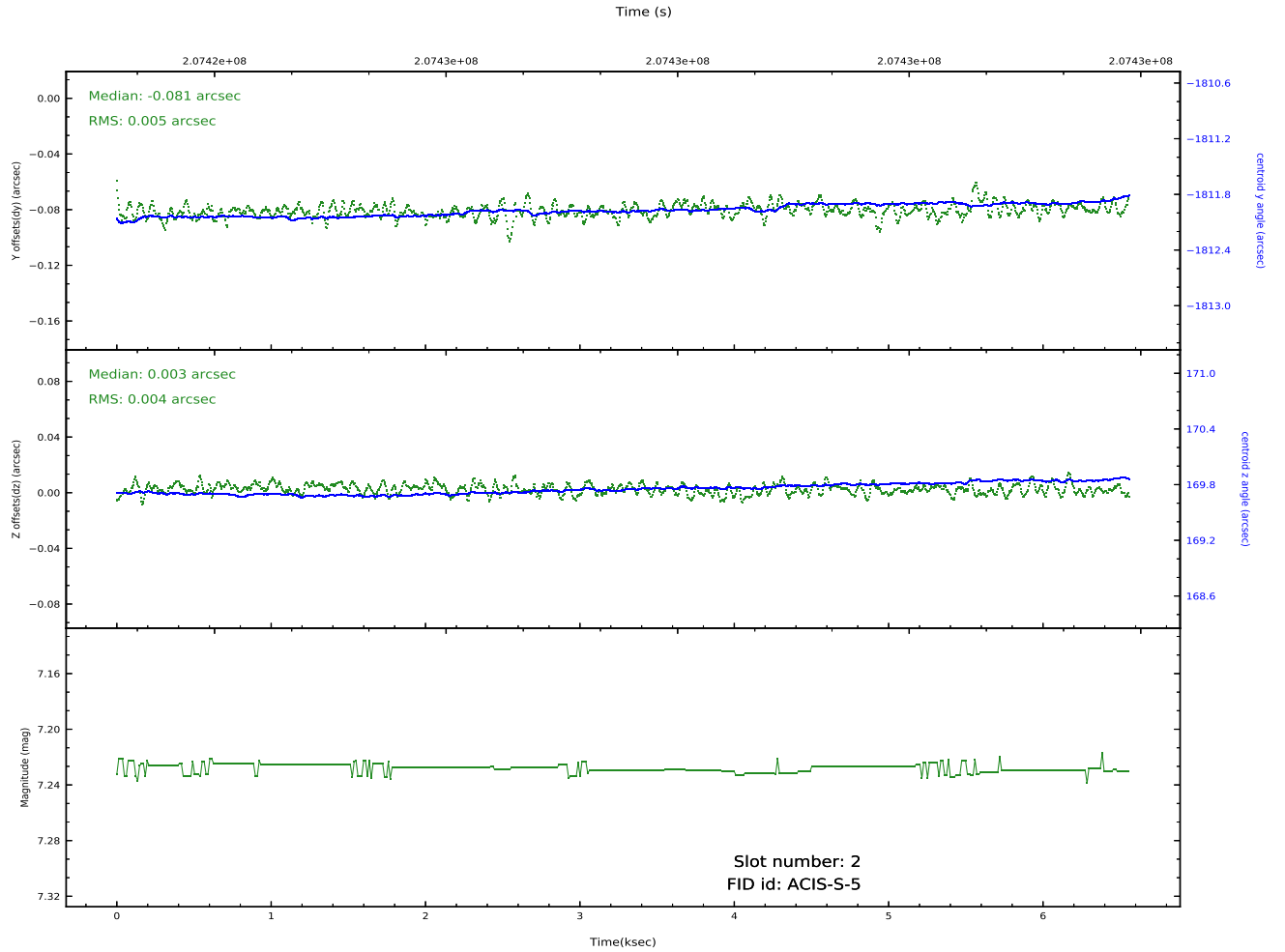
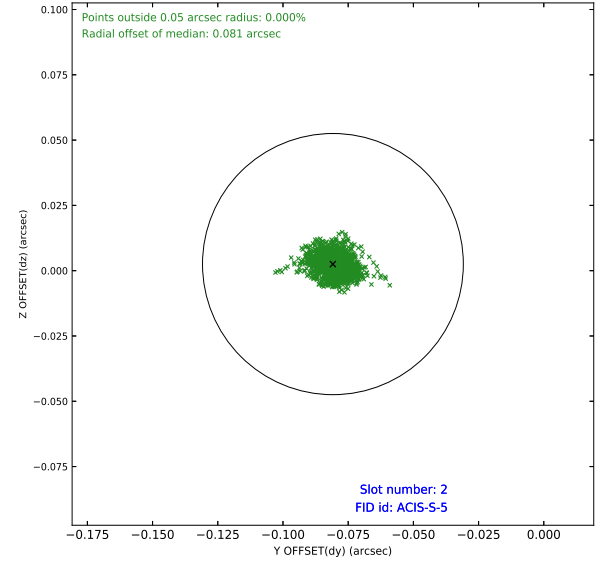
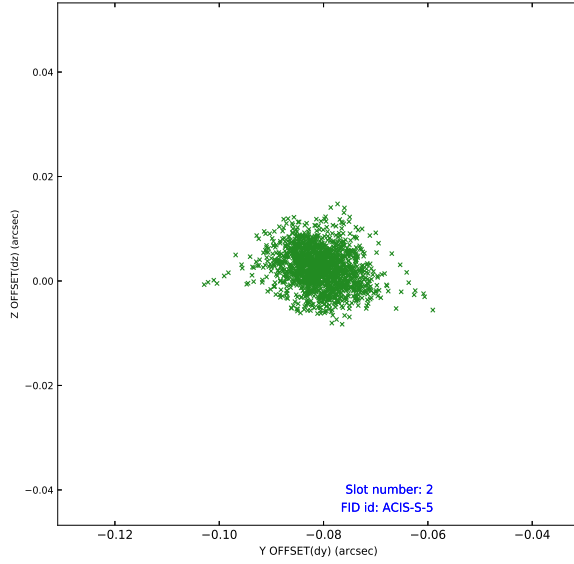
2.5.1 Slot 0



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)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.582

A.2 Comments

Charge time for this observation remains at previous value of 6.582 ksec, although with the current processing the charge time would have been 6.508 ksec. ===

This observation was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 2004:210:19:28.