

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20493 - L2 Version 2
Chandra X-Ray Center

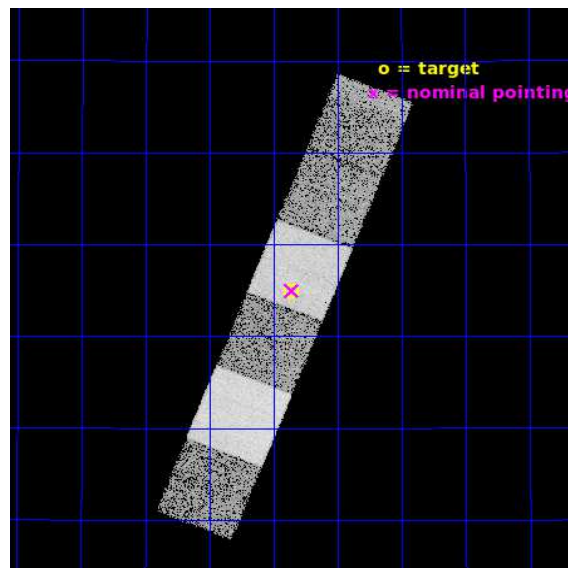
L2 Processing Date : Oct 24 2020

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1 Front

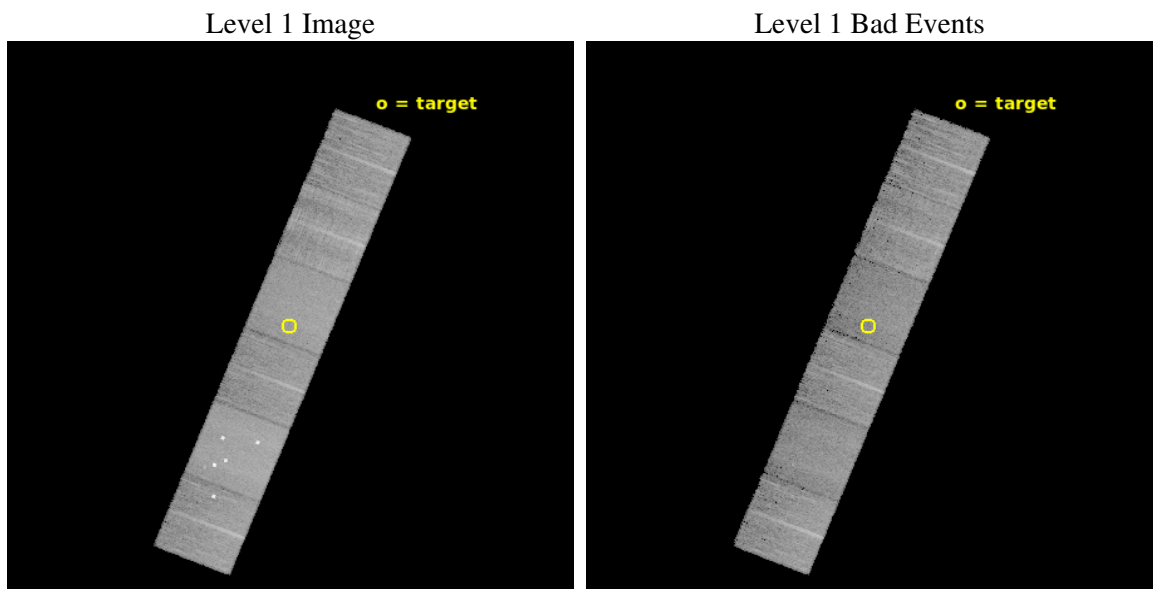
seq_num	703596	Sequence number
obs_id	20493	Observation id
title	Confirming X-ray bright gravitationally lensed quasars identified by Gaia and ROSAT	Proposal title
observer	Cameron Lemon	Principal investigator
object	J0300+2654	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	45.090833	Observer's specified target RA [deg]
dec_targ	26.915889	Observer's specified target Dec [deg]
ra_nom	45.089230383655	Nominal RA [deg]
dec_nom	26.916277079229	Nominal Dec [deg]
roll_nom	291.71146397193	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9945.600148201	Sum of GTIs [s]
livetime	9819.662970603	Livetime [s]
ontime4	9945.600148201	Sum of GTIs [s]
ontime5	9945.600148201	Sum of GTIs [s]
ontime6	9945.600148201	Sum of GTIs [s]
ontime7	9945.600148201	Sum of GTIs [s]
ontime8	9945.600148201	Sum of GTIs [s]
ontime9	9945.600148201	Sum of GTIs [s]
l2events	121323	Number of level 2 events



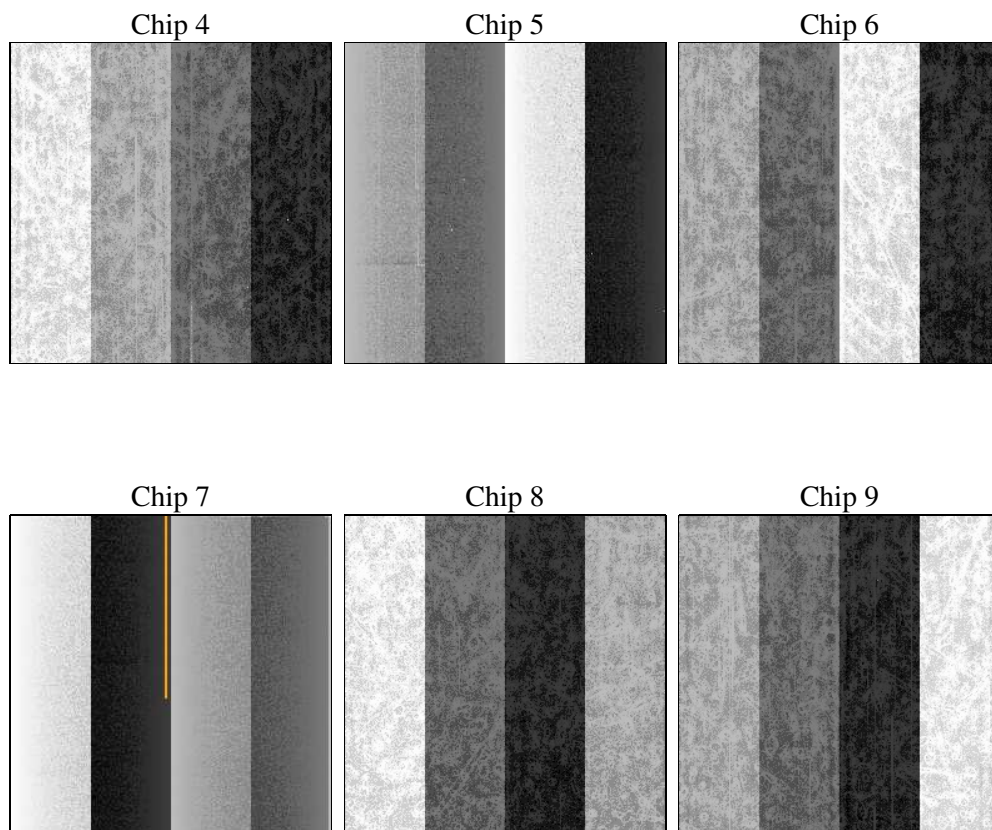
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	9945.600148201	Sum of GTIs [s]
caldsver	4.9.3	 	ontime4	9945.600148201	Sum of GTIs [s]
date	2020-10-25T02:20:02	Date and time of file creation	ontime5	9945.600148201	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9945.600148201	Sum of GTIs [s]
			ontime7	9945.600148201	Sum of GTIs [s]
			ontime8	9945.600148201	Sum of GTIs [s]
			ontime9	9945.600148201	Sum of GTIs [s]
			l1events	557428	Number of level 1 events

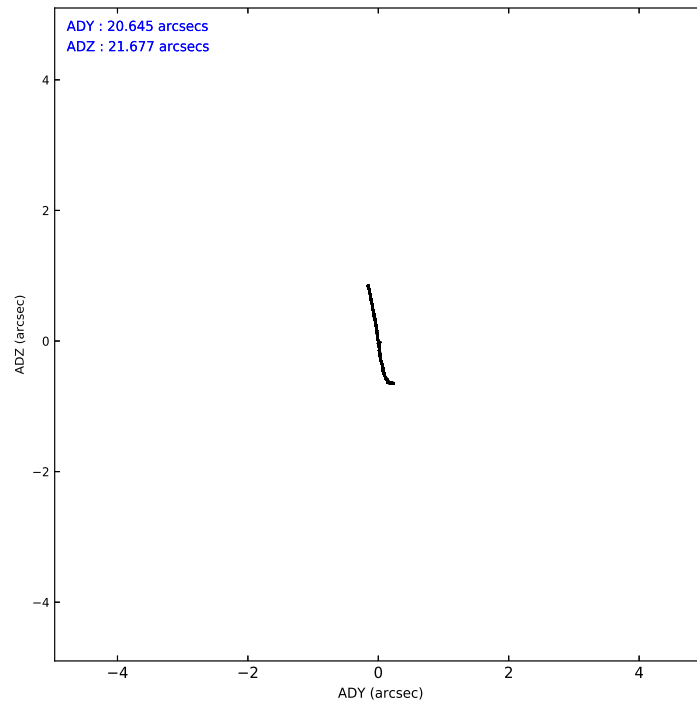
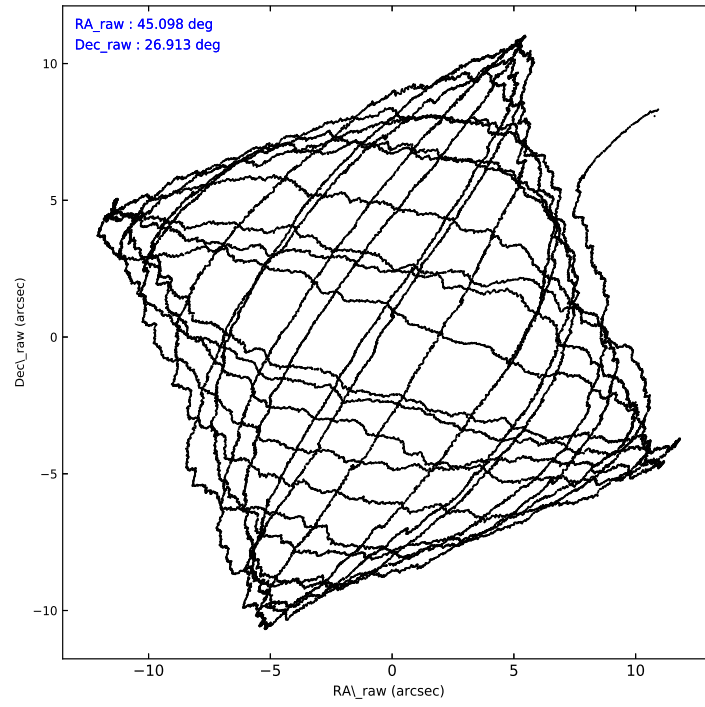
2.1.4 Events

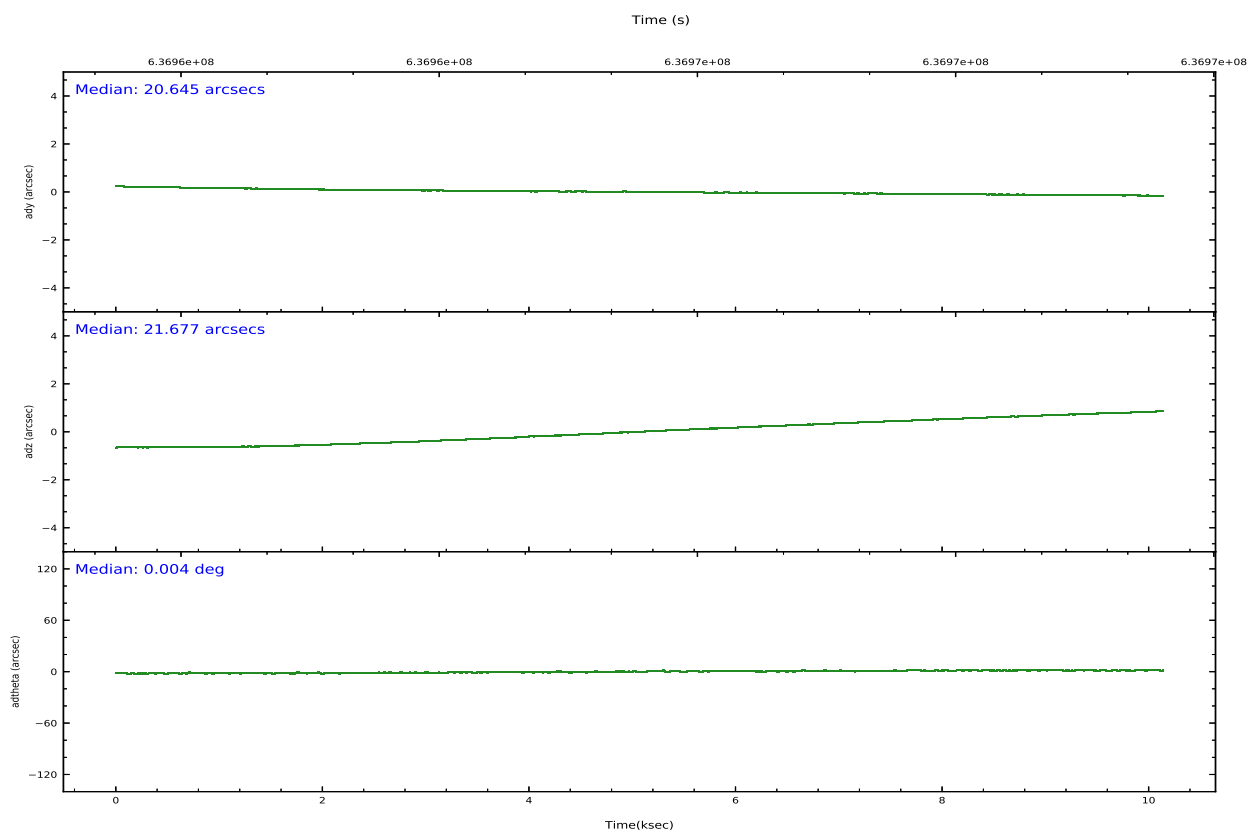
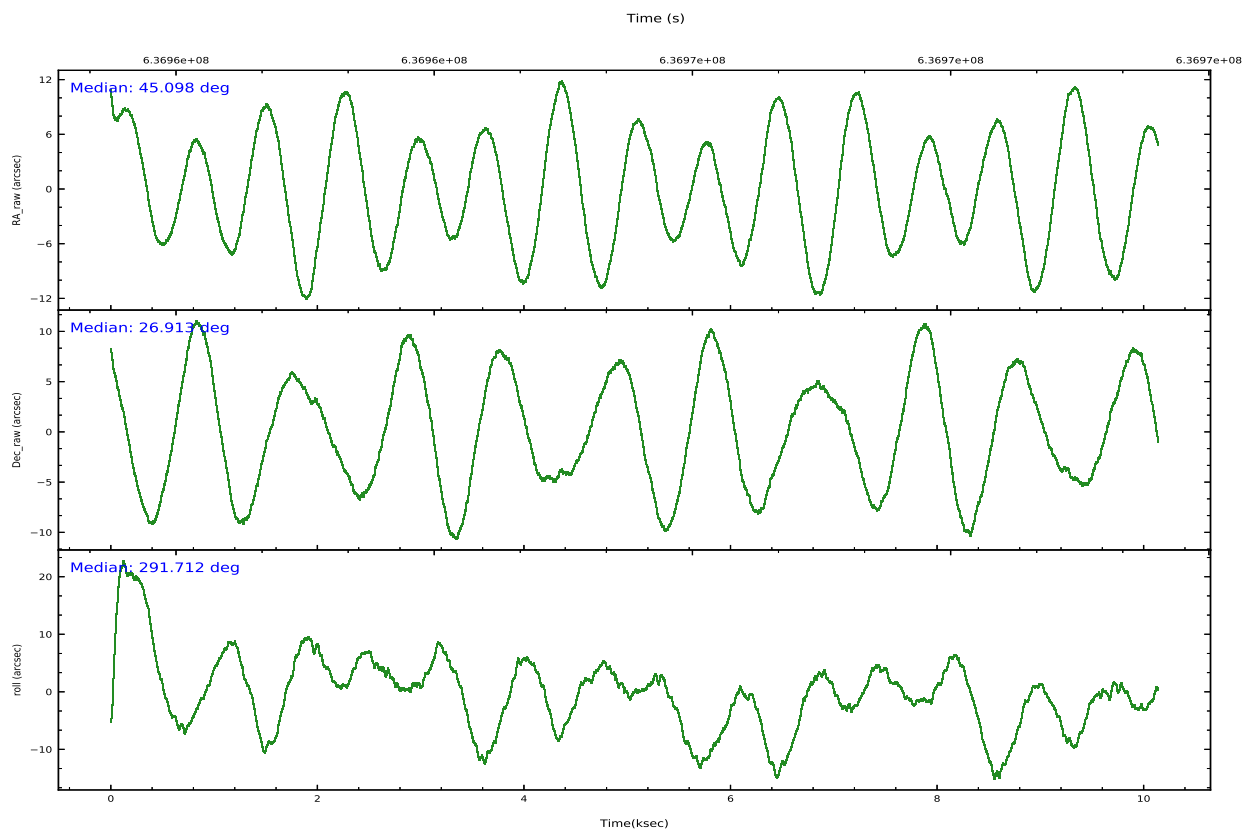
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	88224	125885	77515	94072	94969	76763	grade 0 events	5289	11358	2624	3378	6815	3002
rejected events	77528	60634	69167	53497	70688	67974		5%	9%	3%	3%	7%	3%
rejected %	87%	48%	89%	56%	74%	88%	grade 1 events	77	397	48	137	77	52
								0%	0%	0%	0%	0%	0%
							grade 2 events	2035	19335	2088	8413	5945	2038
								2%	15%	2%	8%	6%	2%
							grade 3 events	881	1667	763	3184	2565	876
								0%	1%	0%	3%	2%	1%
							grade 4 events	929	1524	759	3175	2364	874
								1%	1%	0%	3%	2%	1%
							grade 5 events	3492	7363	3240	9278	5067	3692
								3%	5%	4%	9%	5%	4%
							grade 6 events	1565	31385	2116	22448	6612	2001
								1%	24%	2%	23%	6%	2%
							grade 7 events	73956	52856	65877	44059	65524	64228
								83%	41%	84%	46%	68%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-456789	ACIS-456789	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	45.073681	45.089230383655	CCD I2 on	N	N
[deg] Pointing Dec	26.929732	26.916277079229	CCD I3 on	N	N
[deg] Pointing Roll	291.575139	291.71146397193	CCD S0 on	O2	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[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	Y	Y
[s] Observation start time (MET)	636962010.184000	636960878.11911	CCD S5 on	O1	Y
Observation start date	2018-03-09T05:52:21	2018-03-09T05:34:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	636972010.184000	636973248.84484	On-chip summing requested	N	N
Observation end date	2018-03-09T08:39:01	2018-03-09T09:00:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



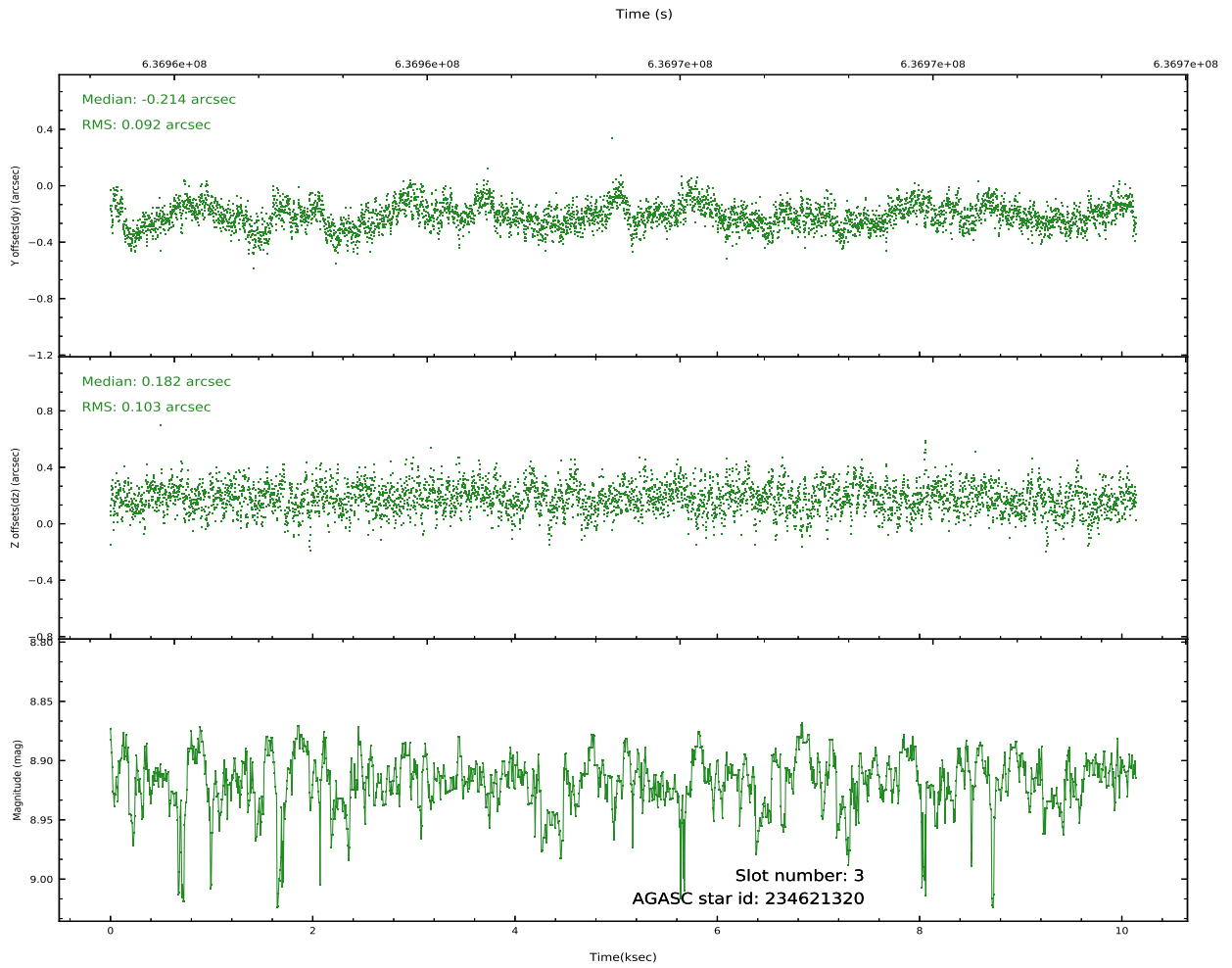
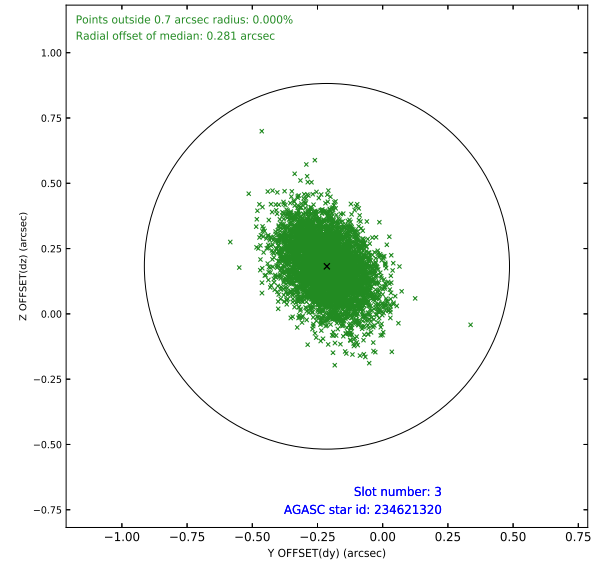
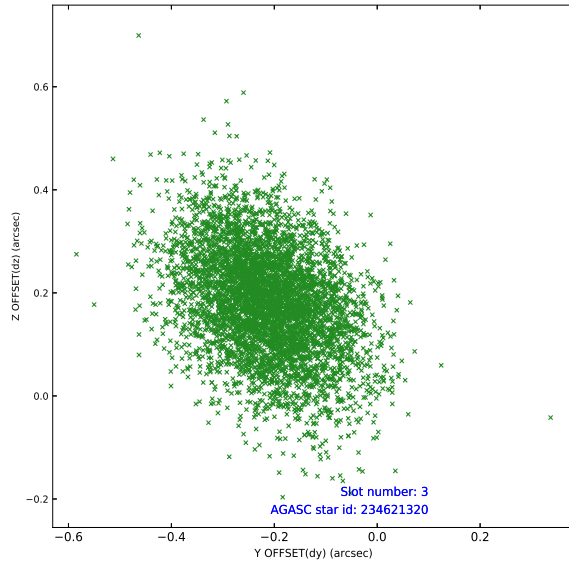


Slot Statistics

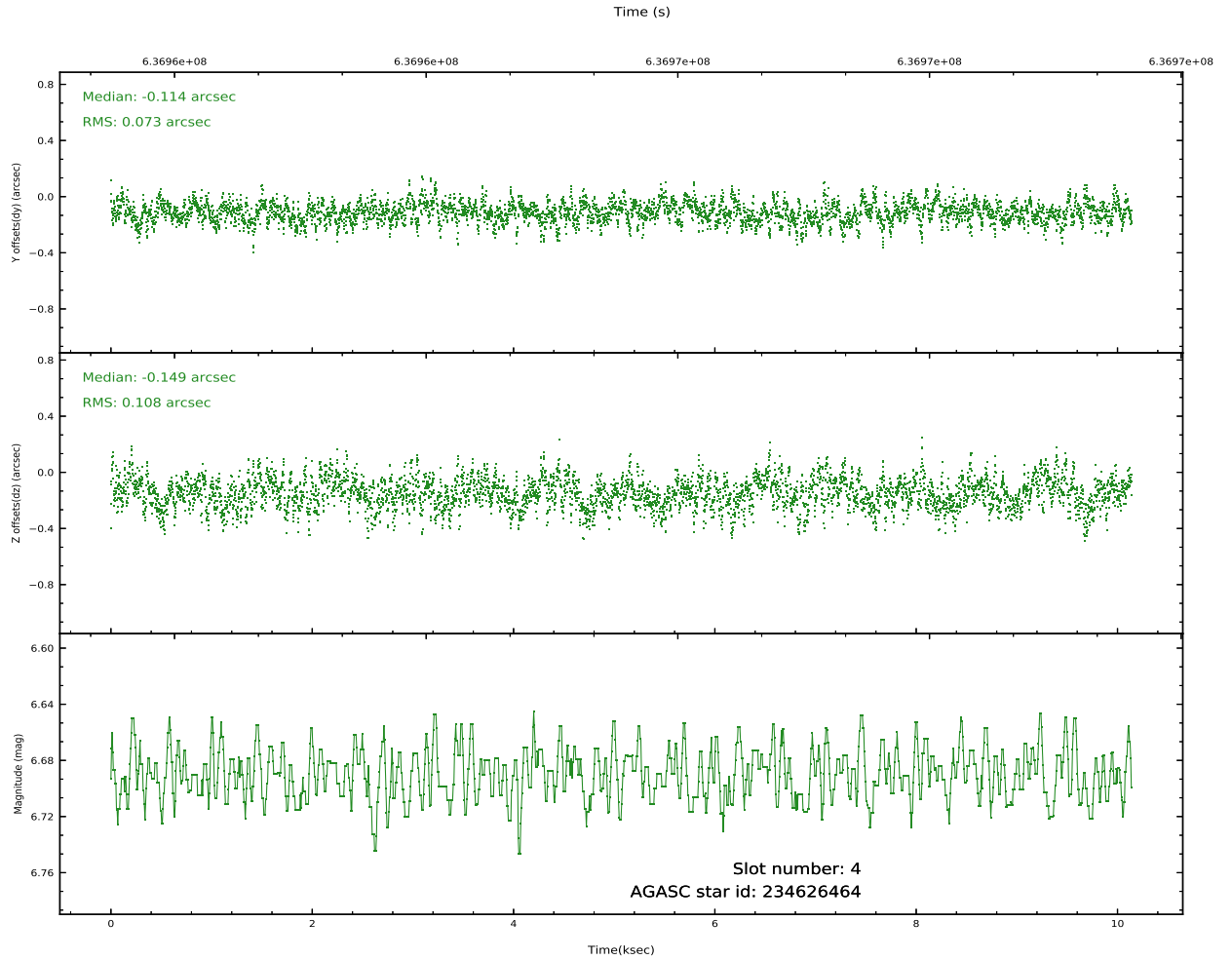
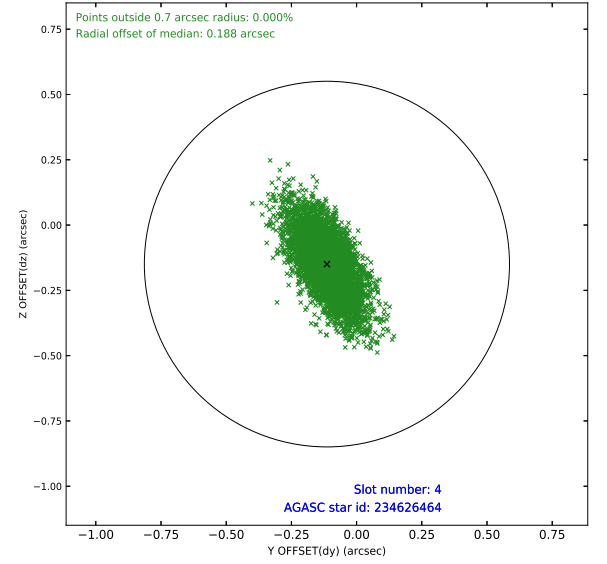
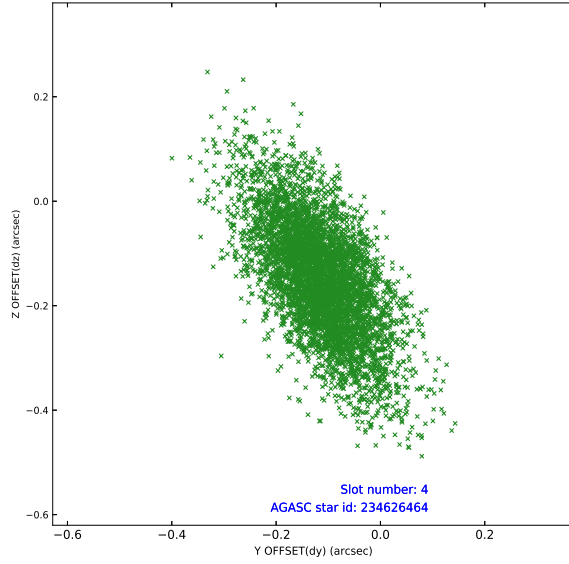
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	2473	1.000	0.290	-0.128	0.029	0.041	0.000000	0.000000	922.24	-1739
1	FID		ACIS-S-4	7.22	2473	1.000	0.005	-0.046	0.023	0.032	0.000000	0.000000	2139.97	164
2	FID		ACIS-S-5	7.21	2474	1.000	-0.321	0.187	0.009	0.014	0.000000	0.000000	-1826.25	159
3	GUIDE	used	234621320	8.92	4944	1.000	-0.214	0.182	0.145	0.242	45.611390	26.928068	636.91	1604
4	GUIDE	used	234626464	6.69	4947	1.000	-0.114	-0.149	0.133	0.244	45.608442	26.609241	1707.10	1180
5	GUIDE	used	234624032	9.18	4946	1.000	0.292	-0.018	0.271	0.439	44.355699	26.762982	-295.22	-2364
6	GUIDE	used	234619048	8.67	4945	1.000	-0.094	0.282	0.155	0.268	44.564687	27.336445	-1962.03	-975
7	GUIDE	used	234624800	9.33	4937	1.000	0.140	-0.264	0.285	0.444	45.323140	26.607355	1374.03	319

2.4 Star Slots

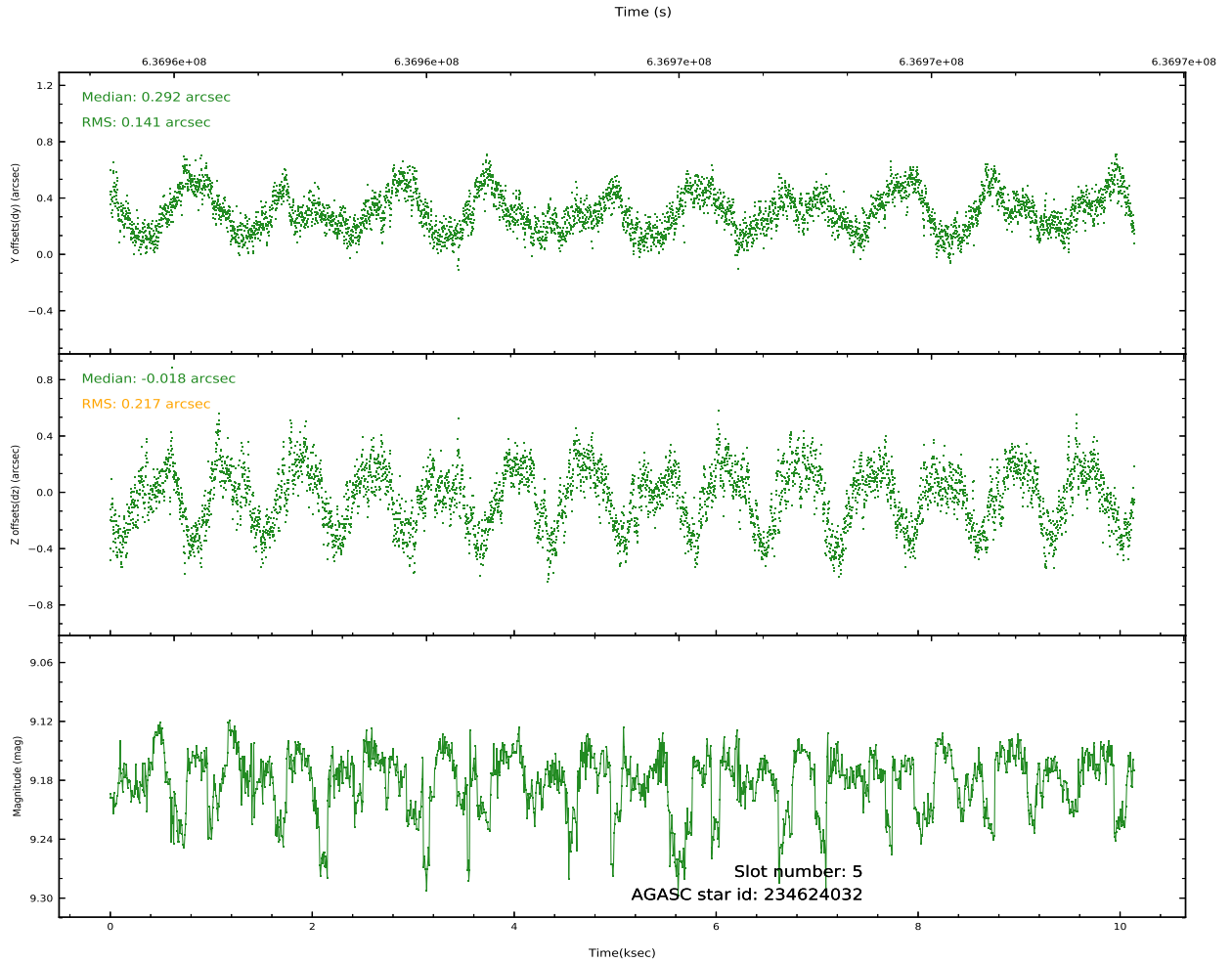
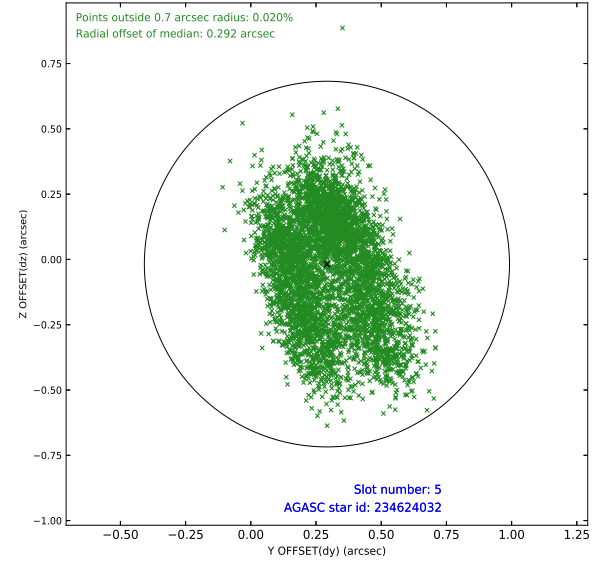
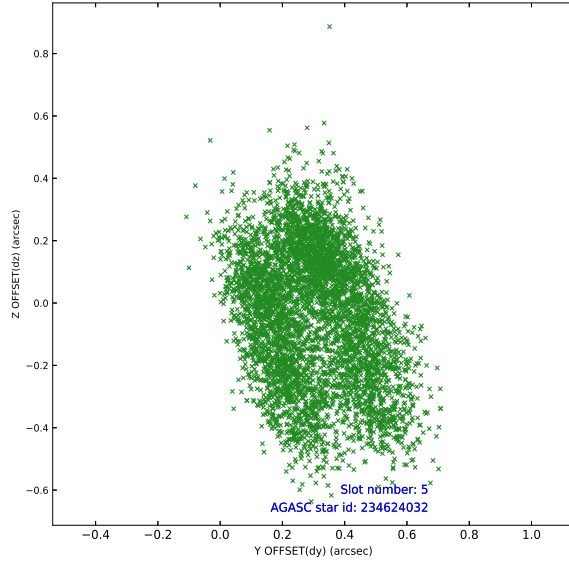
2.4.1 Slot 3



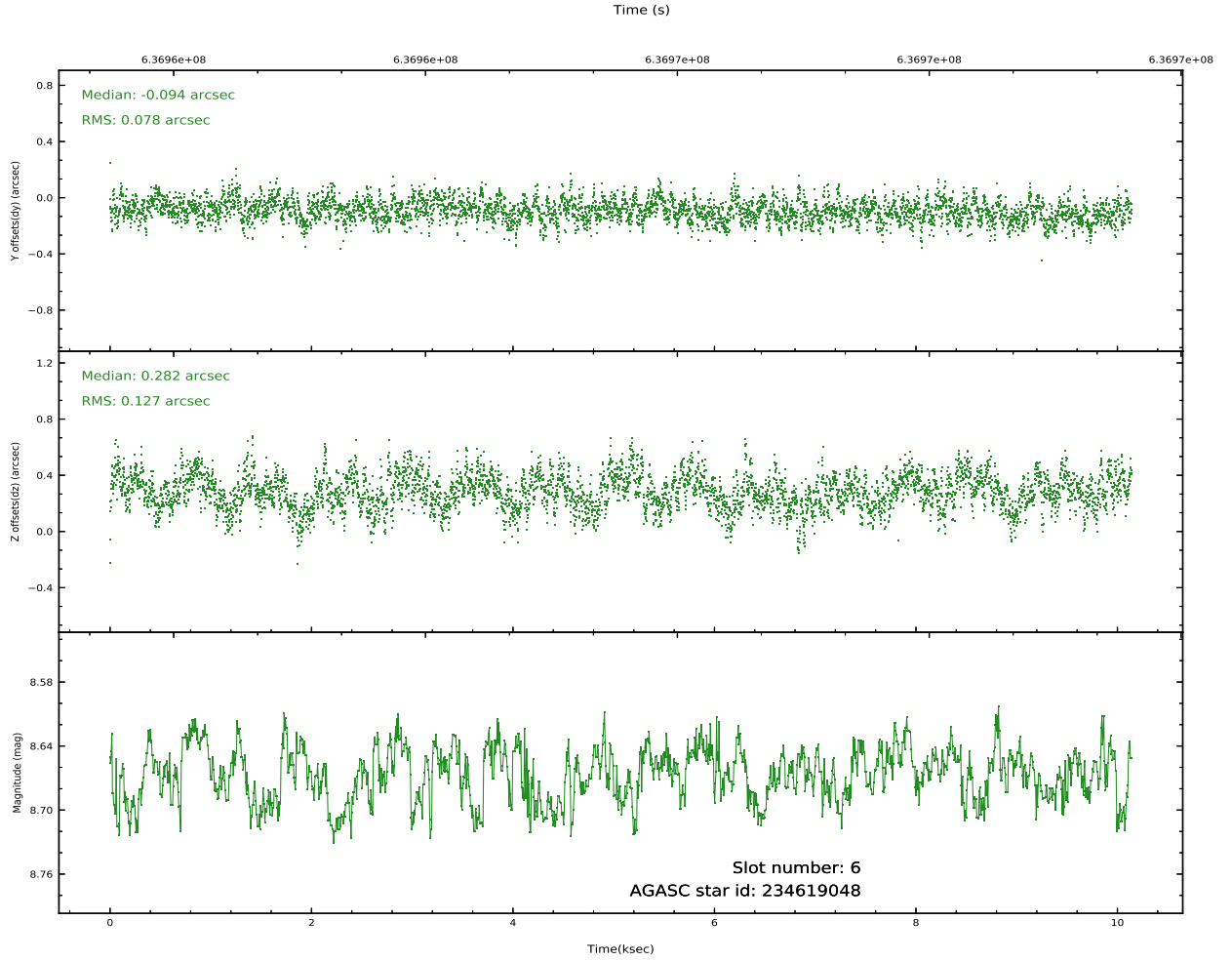
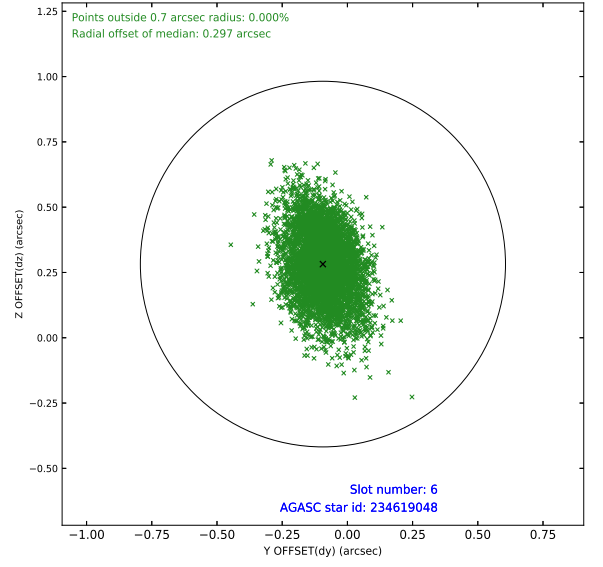
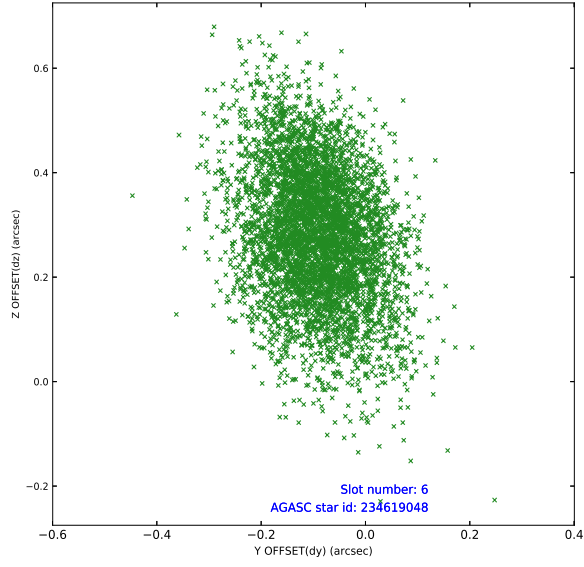
2.4.2 Slot 4



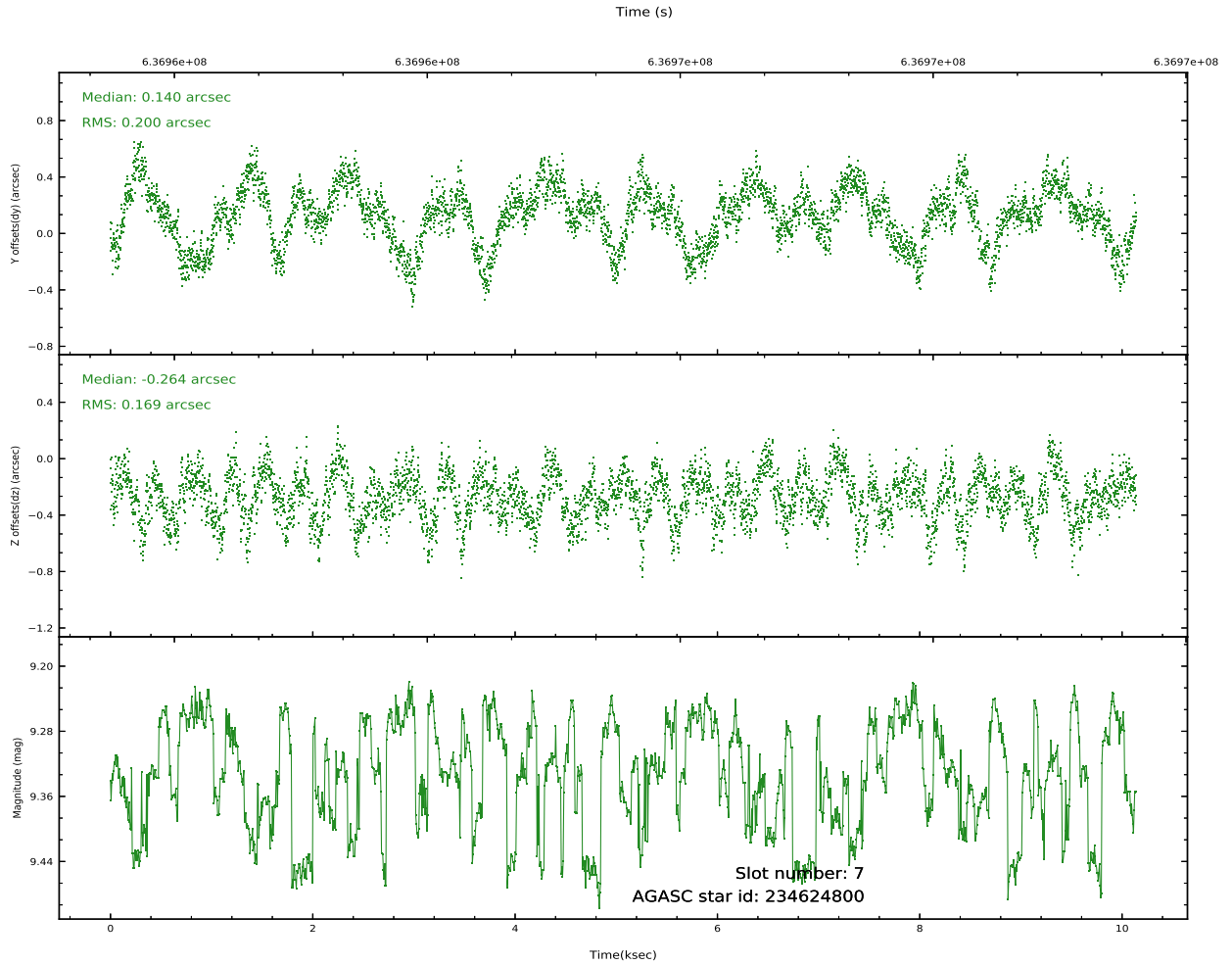
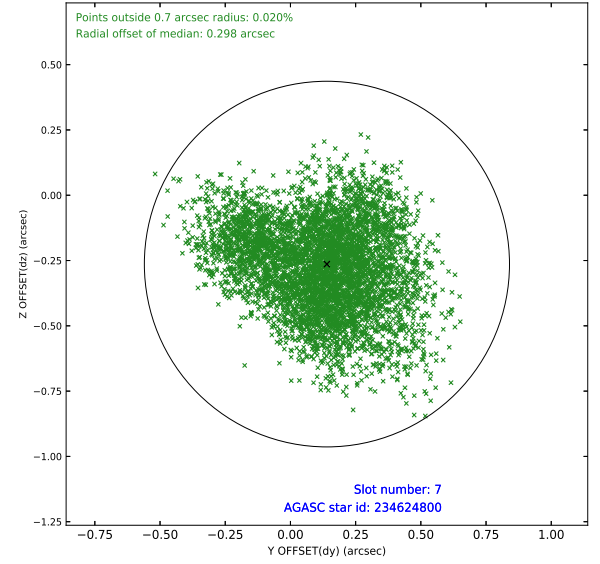
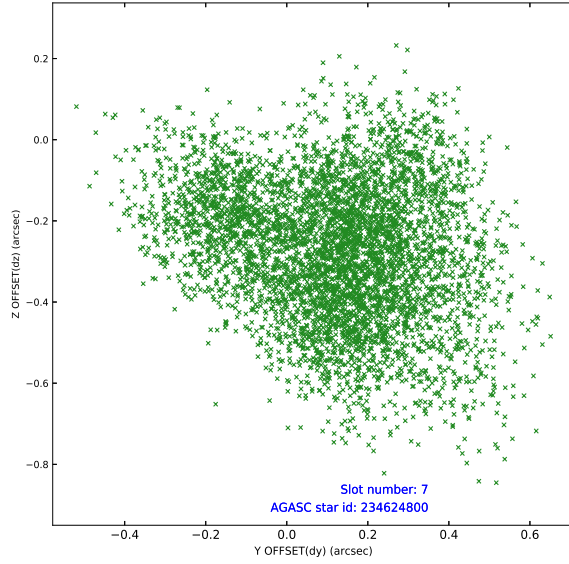
2.4.3 Slot 5



2.4.4 Slot 6

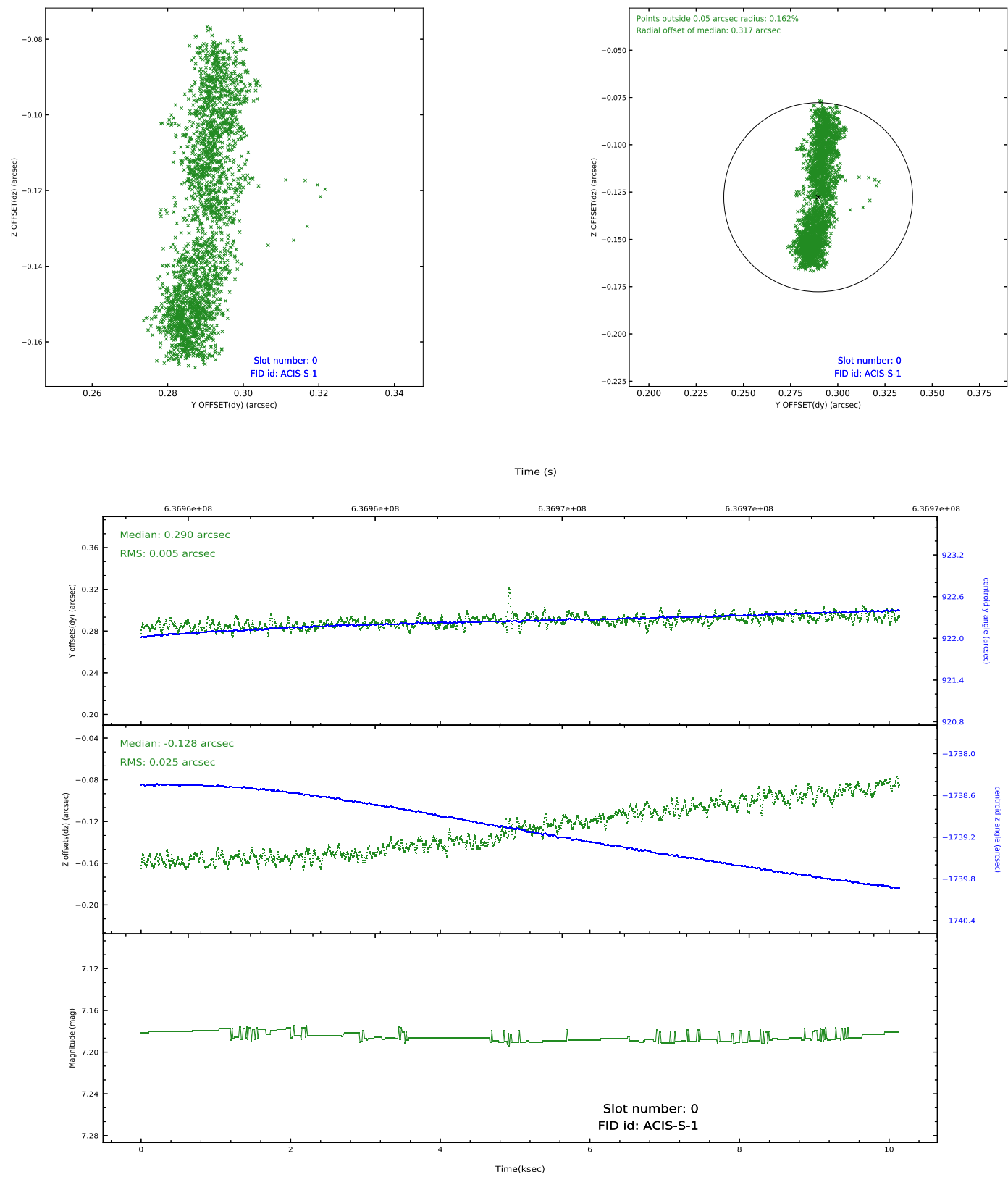


2.4.5 Slot 7

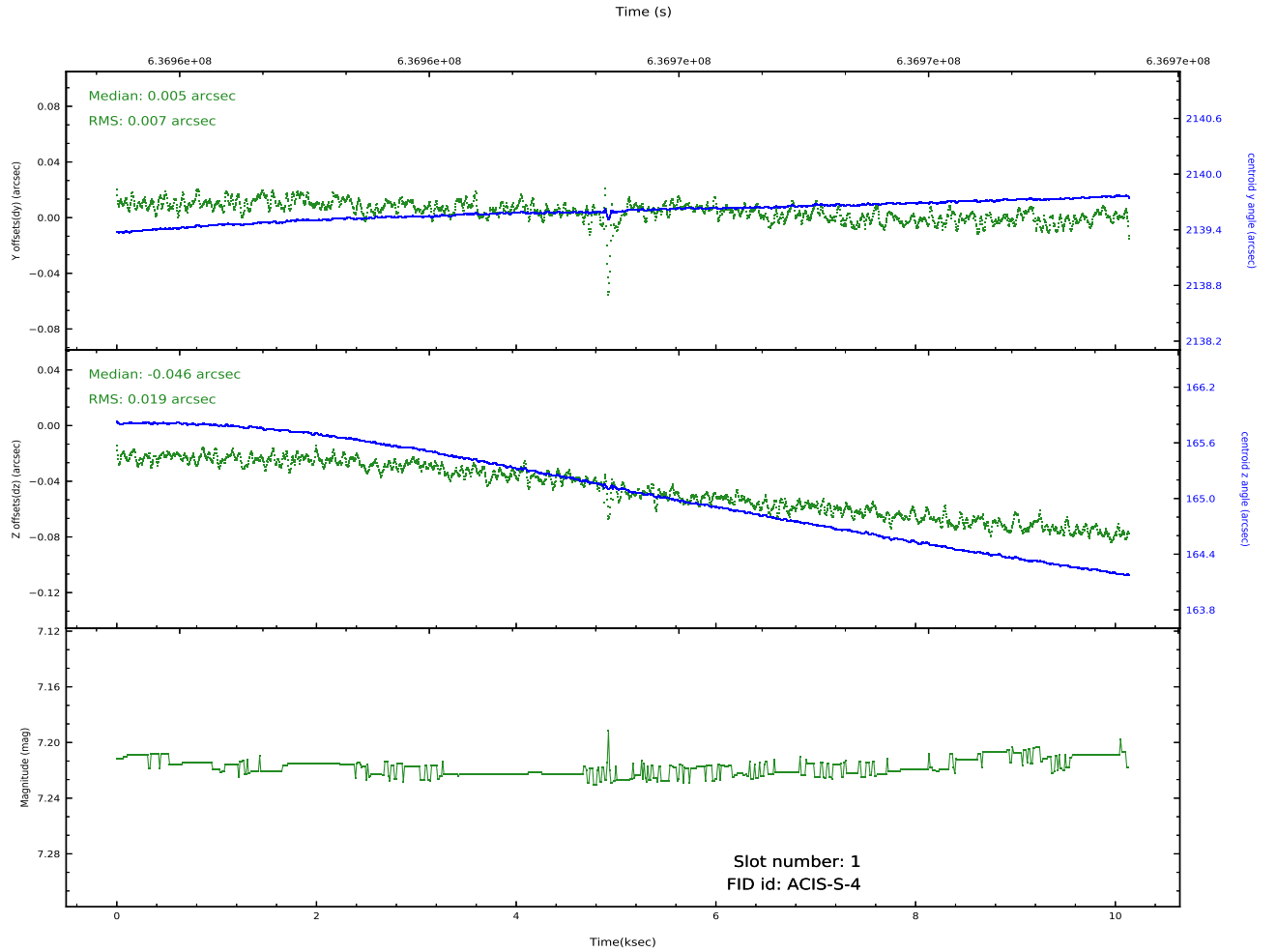
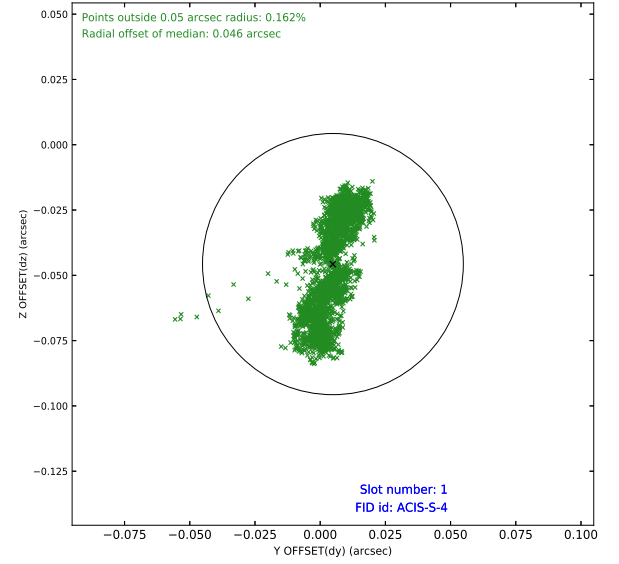
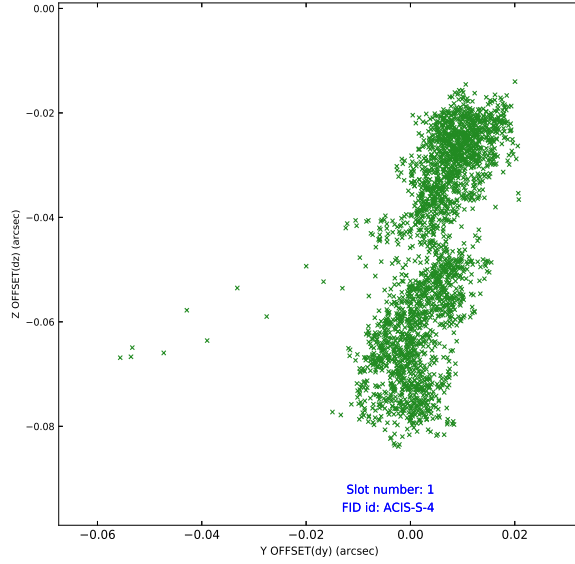


2.5 FID Slots

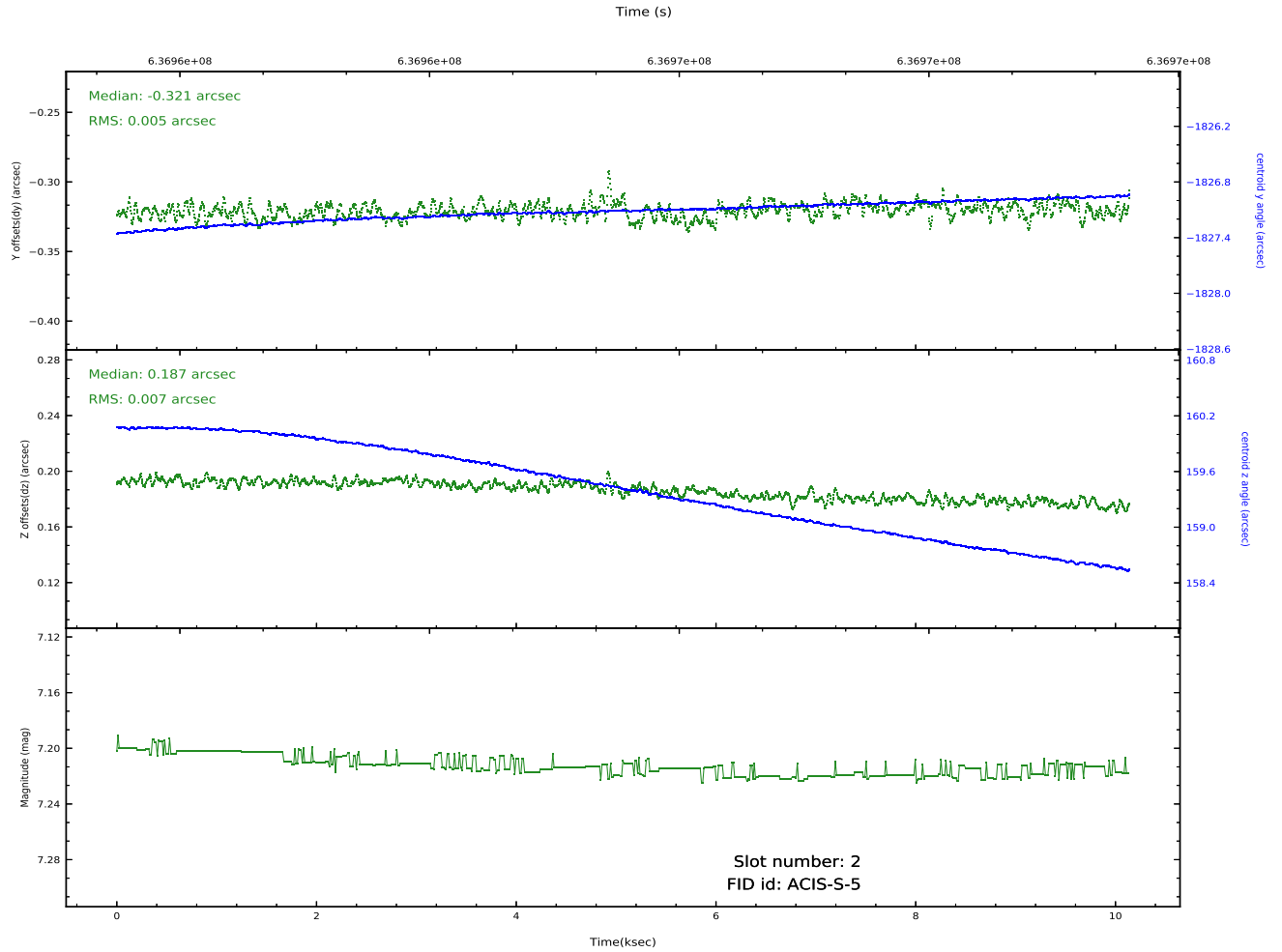
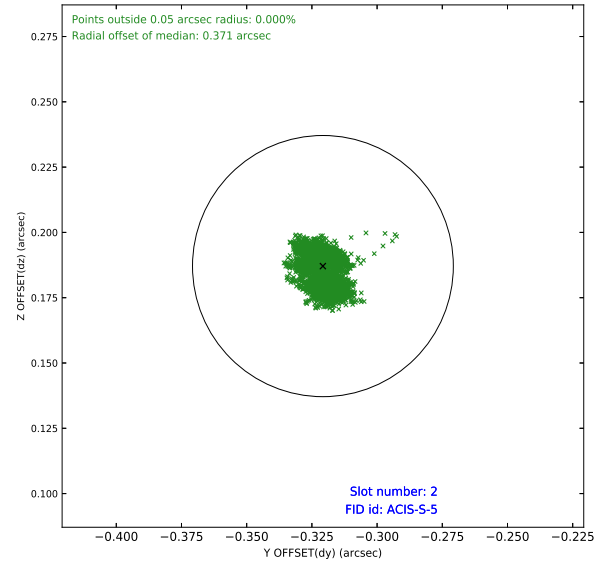
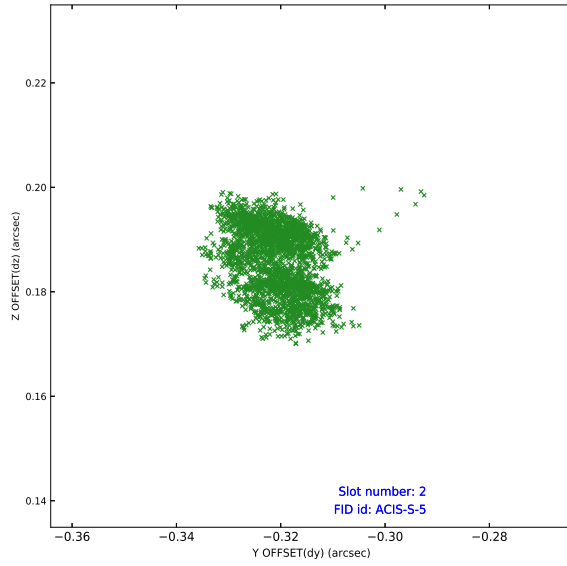
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.945600148201

A.2 Comments