

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20465 - L2 Version 2
Chandra X-Ray Center

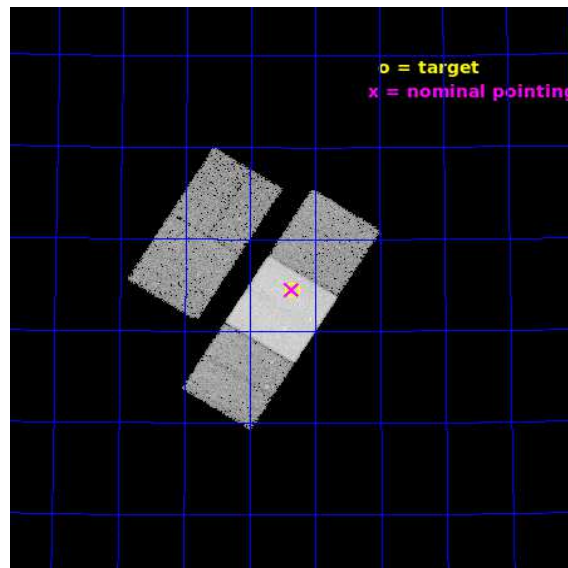
L2 Processing Date : Oct 25 2020

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1 Front

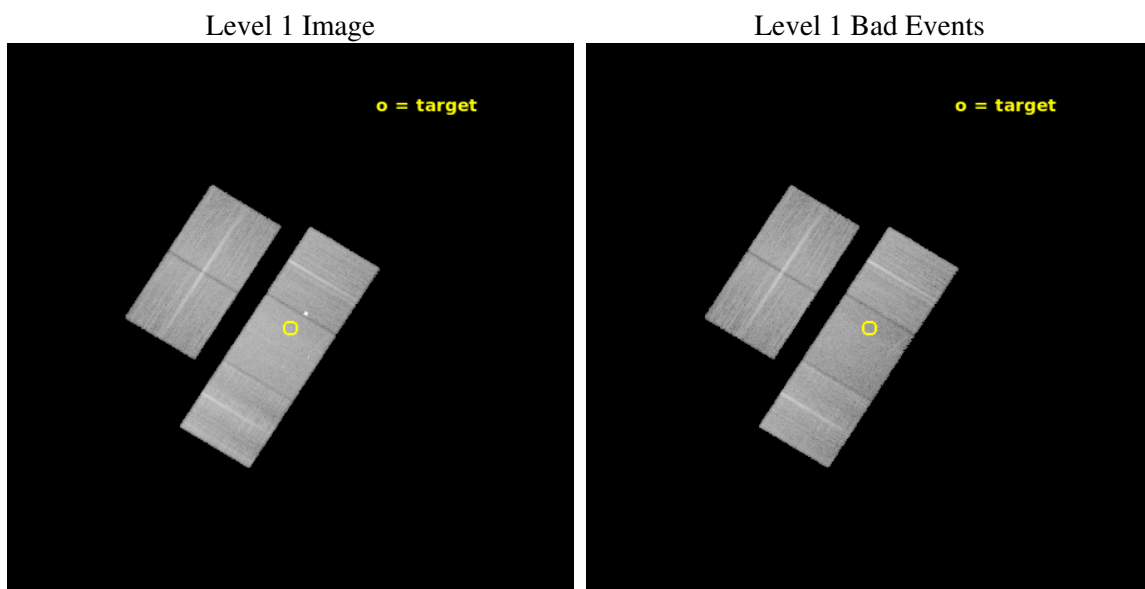
seq_num	703568	Sequence number
obs_id	20465	Observation id
title	Understanding AGN Accretion State Transitions with a Statistical Sample of Changing-Look Quasars	Proposal title
observer	John Ruan	Principal investigator
object	SDSS J164920.79+630431.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	252.336667	Observer's specified target RA [deg]
dec_targ	63.075333	Observer's specified target Dec [deg]
ra_nom	252.33939352715	Nominal RA [deg]
dec_nom	63.075358672808	Nominal Dec [deg]
roll_nom	122.03821459355	Nominal Roll [deg]
revision	2	Processing version of data
ontime	23053.886508346	Sum of GTIs [s]
livetime	22752.67050909	Livetime [s]
ontime2	23050.581338048	Sum of GTIs [s]
ontime3	23050.663437963	Sum of GTIs [s]
ontime6	23053.845468402	Sum of GTIs [s]
ontime7	23053.886508346	Sum of GTIs [s]
ontime8	23044.340247869	Sum of GTIs [s]
l2events	154899	Number of level 2 events



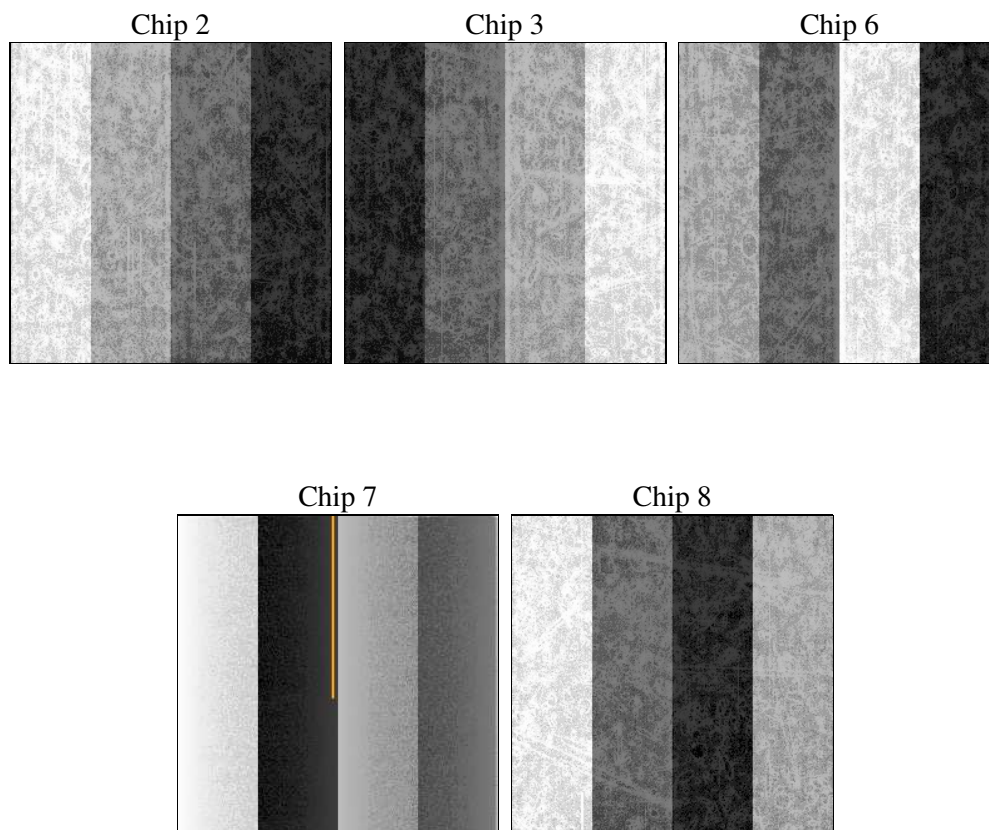
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	23053.886508346	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	23050.581338048	Sum of GTIs [s]
date	2020-10-25T10:52:34	Date and time of file creation	ontime3	23050.663437963	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	23053.845468402	Sum of GTIs [s]
			ontime7	23053.886508346	Sum of GTIs [s]
			ontime8	23044.340247869	Sum of GTIs [s]
			l1events	962234	Number of level 1 events

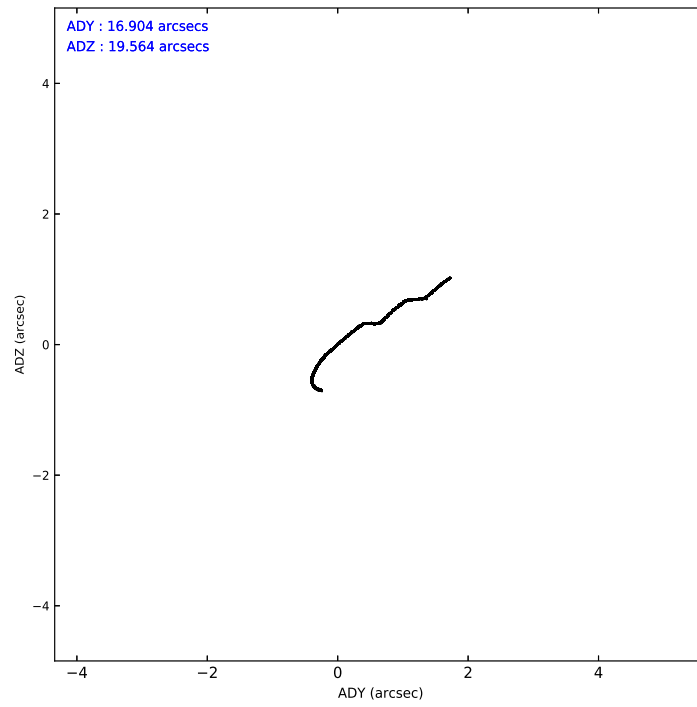
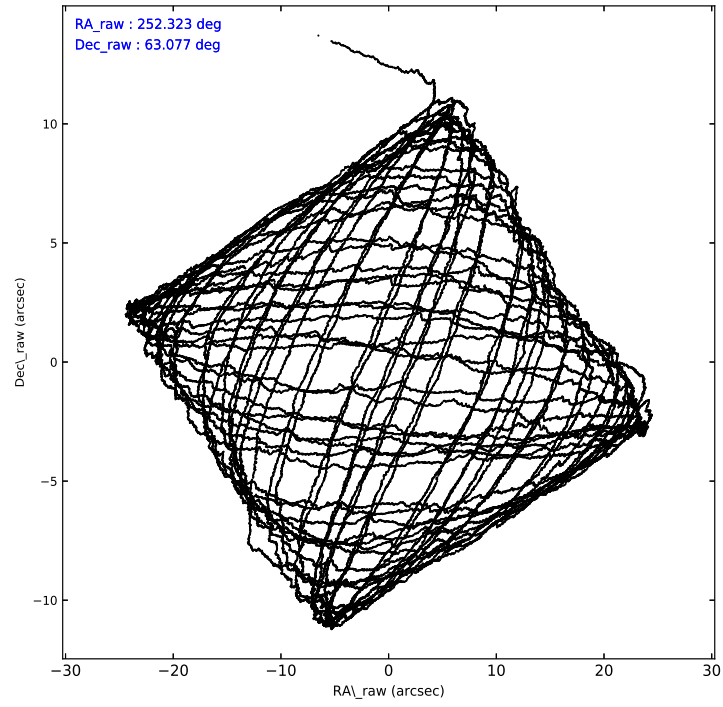
2.1.4 Events

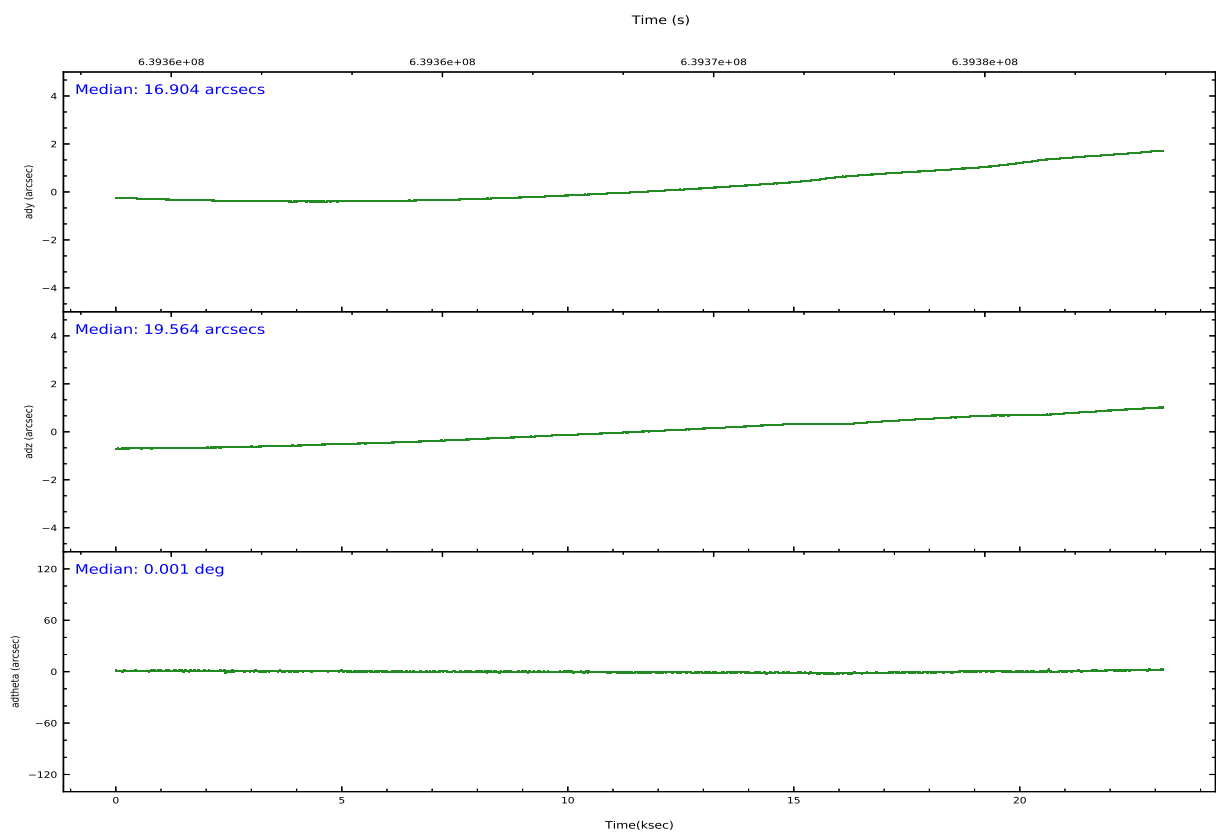
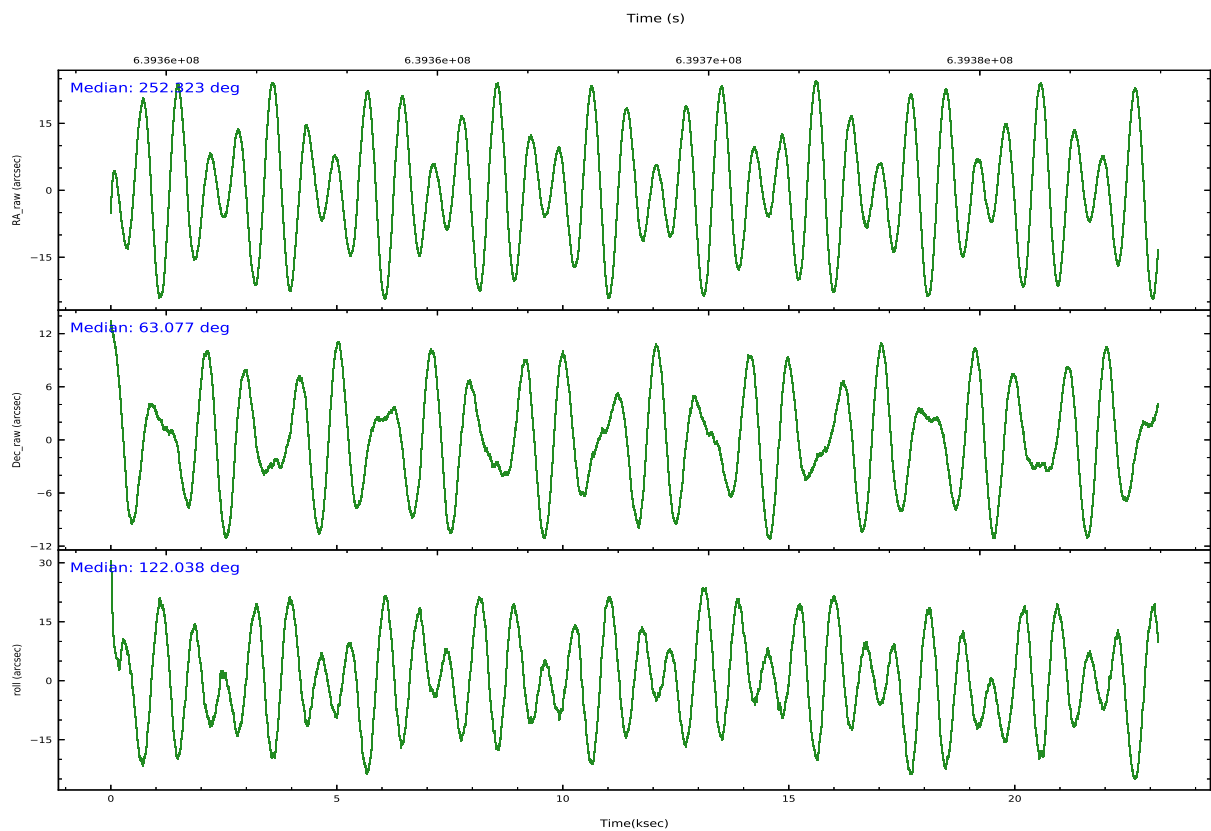
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	173040	168369	184497	217549	218779	grade 0 events	6067	5981	11144	7867	16581
rejected events	155858	151139	160319	124161	161489		3%	3%	6%	3%	7%
rejected %	90%	89%	86%	57%	73%	grade 1 events	89	96	114	287	161
							0%	0%	0%	0%	0%
						grade 2 events	4099	3844	4766	19592	13846
							2%	2%	2%	9%	6%
						grade 3 events	1751	1793	1810	7286	5967
							1%	1%	0%	3%	2%
						grade 4 events	1783	1873	1722	7280	5535
							1%	1%	0%	3%	2%
						grade 5 events	6385	7810	7499	21215	11921
							3%	4%	4%	9%	5%
						grade 6 events	3484	3742	4739	51379	15362
							2%	2%	2%	23%	7%
						grade 7 events	149382	143230	152703	102643	149406
							86%	85%	82%	47%	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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	252.376998	252.33939352715	CCD I2 on	O1	Y
[deg] Pointing Dec	63.063974	63.075358672808	CCD I3 on	O2	Y
[deg] Pointing Roll	121.841253	122.03821459355	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	Y	Y
[s] Observation start time (MET)	639356946.184000	639356008.57287	CCD S5 on	N	N
Observation start date	2018-04-05T23:07:57	2018-04-05T22:53:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	639379946.184000	639380641.88683	On-chip summing requested	N	N
Observation end date	2018-04-06T05:31:17	2018-04-06T05:44:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



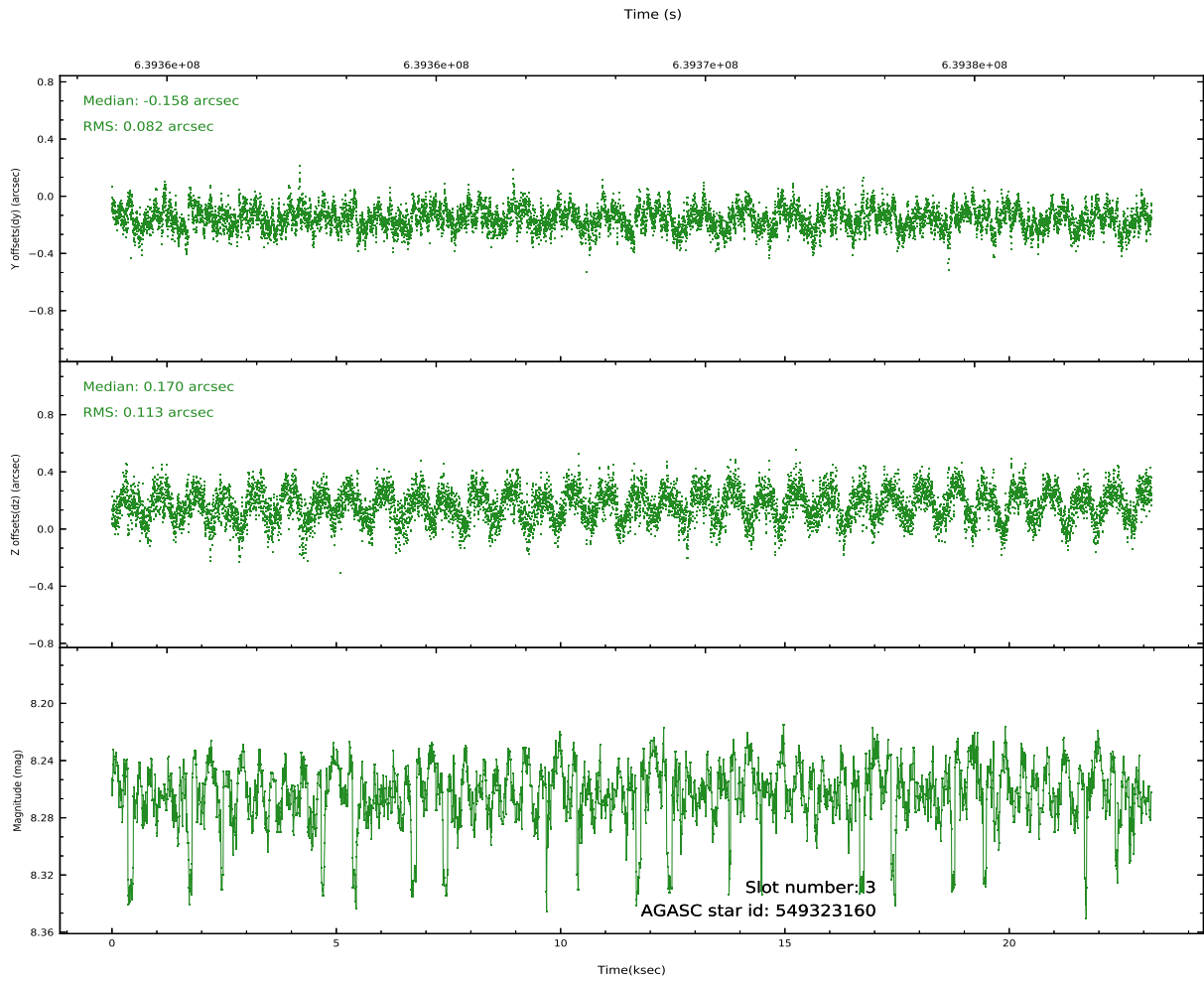
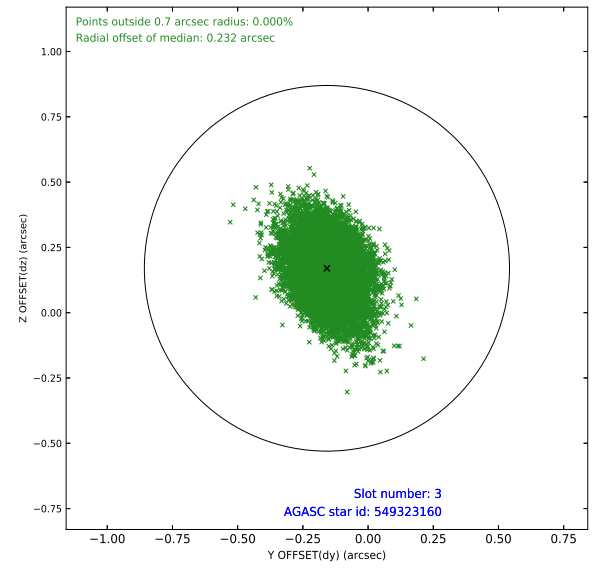
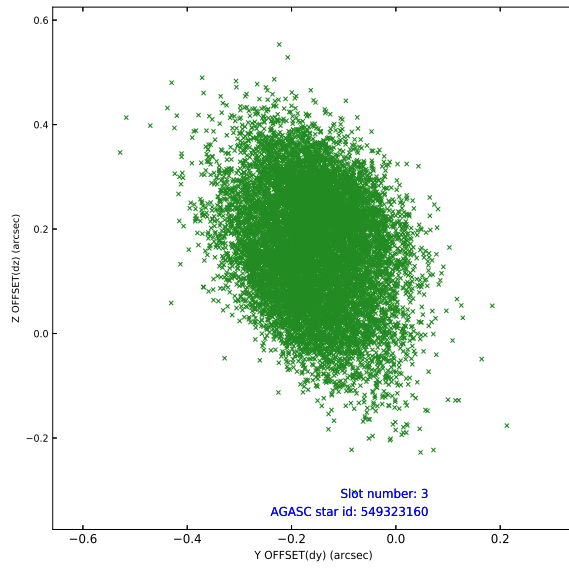


Slot Statistics

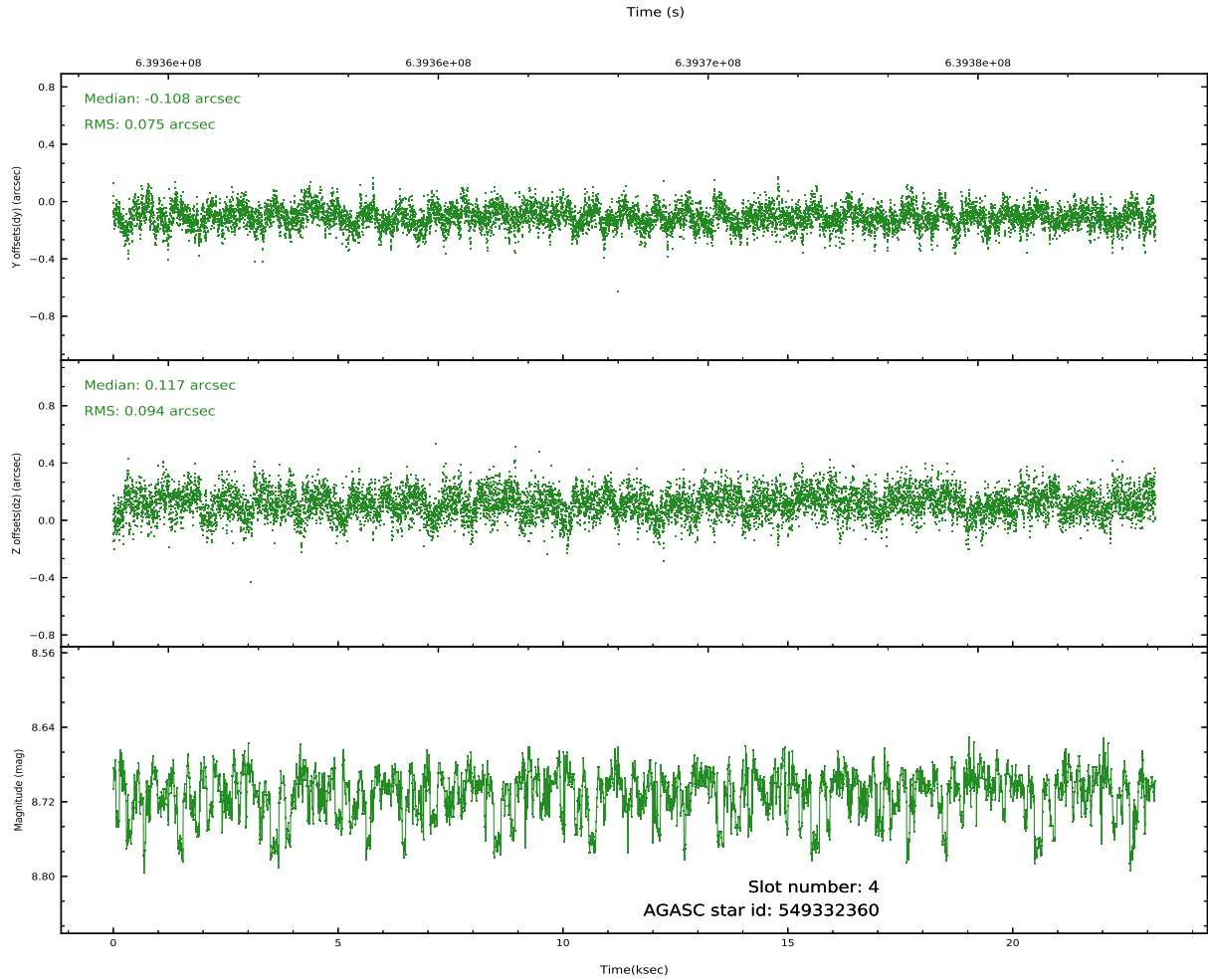
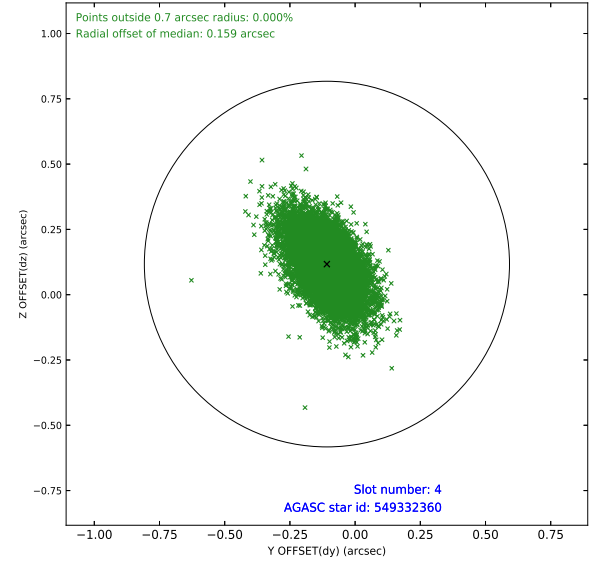
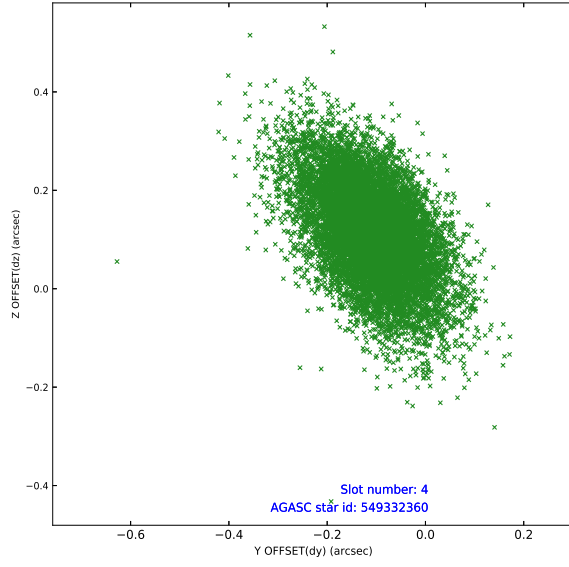
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	5651	1.000	0.280	-0.117	0.036	0.046	0.000000	0.000000	925.92	-1736
1	FID		ACIS-S-4	7.20	5652	1.000	0.065	-0.047	0.021	0.031	0.000000	0.000000	2143.40	167
2	FID		ACIS-S-5	7.19	5652	1.000	-0.374	0.177	0.018	0.025	0.000000	0.000000	-1823.22	161
3	GUIDE	used	549323160	8.26	11302	1.000	-0.158	0.170	0.148	0.237	252.162125	62.436367	-1729.88	1496
4	GUIDE	used	549332360	8.71	11297	1.000	-0.108	0.117	0.123	0.220	252.085548	62.315435	-2031.17	1835
5	GUIDE	used	549727528	8.80	11291	1.000	0.259	0.022	0.153	0.256	253.104782	63.150050	-355.50	-1170
6	GUIDE	used	549728064	8.87	11293	1.000	0.223	0.060	0.137	0.235	253.444474	63.098497	-798.69	-1550
7	GUIDE	used	549732576	7.00	11303	1.000	-0.214	-0.366	0.118	0.212	251.725603	63.386014	1543.92	277

2.4 Star Slots

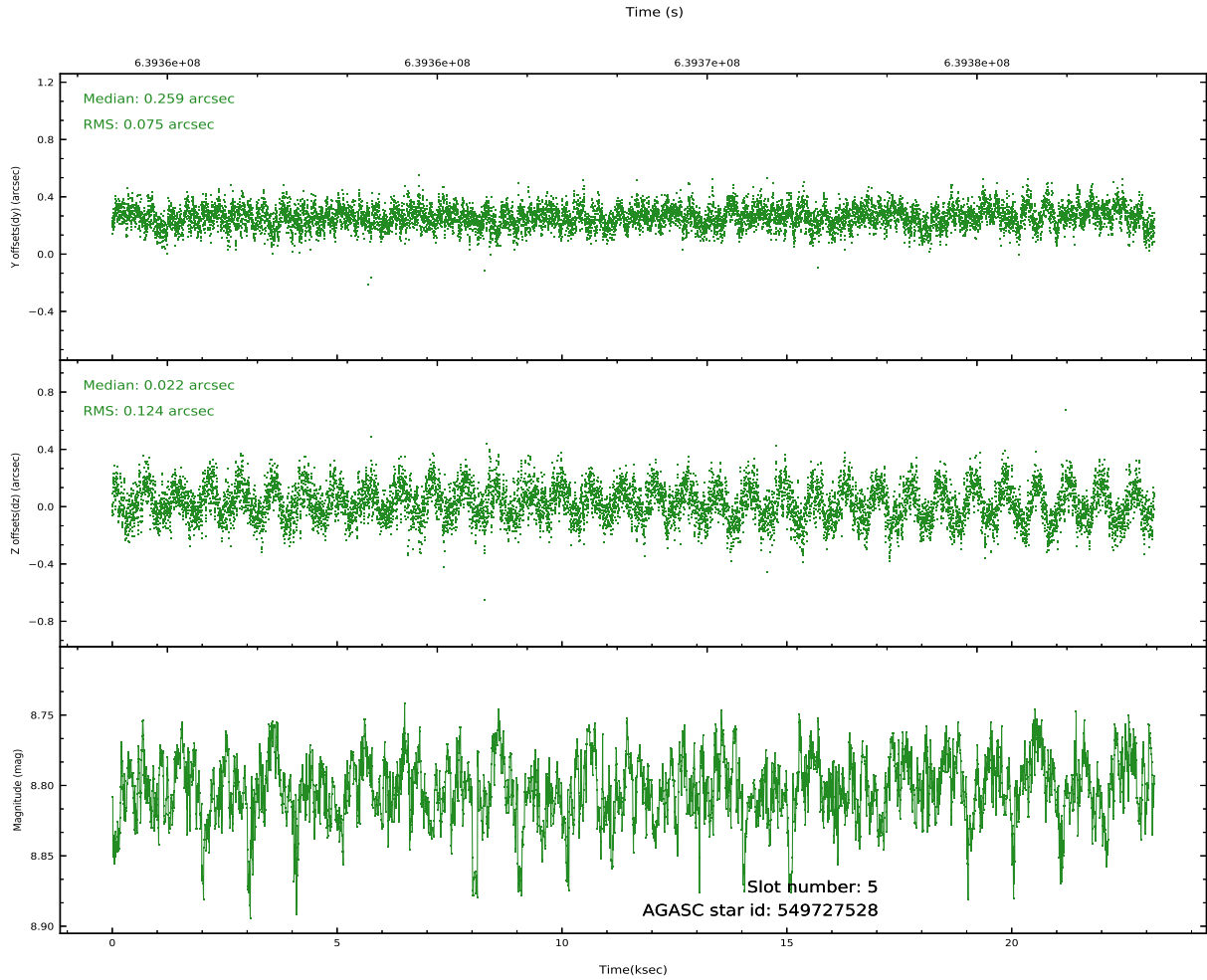
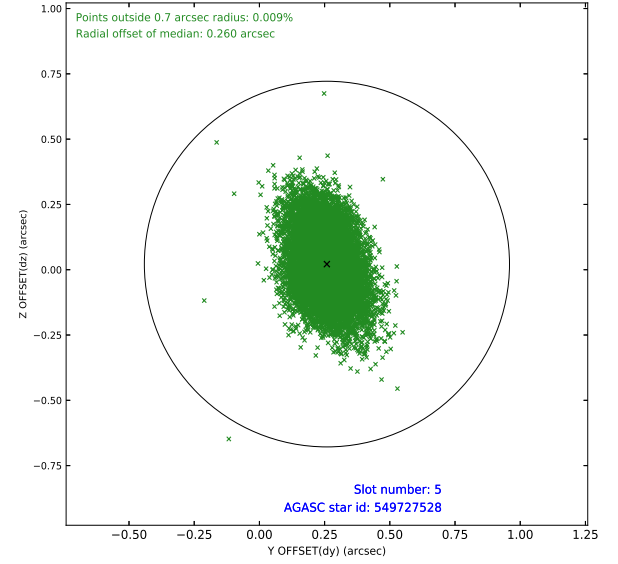
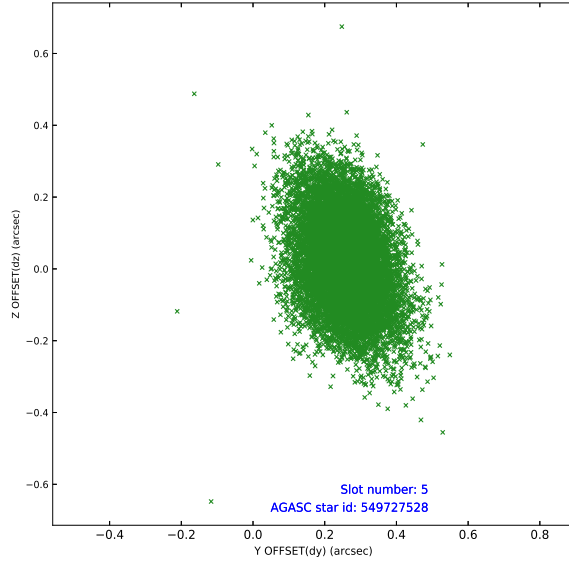
2.4.1 Slot 3



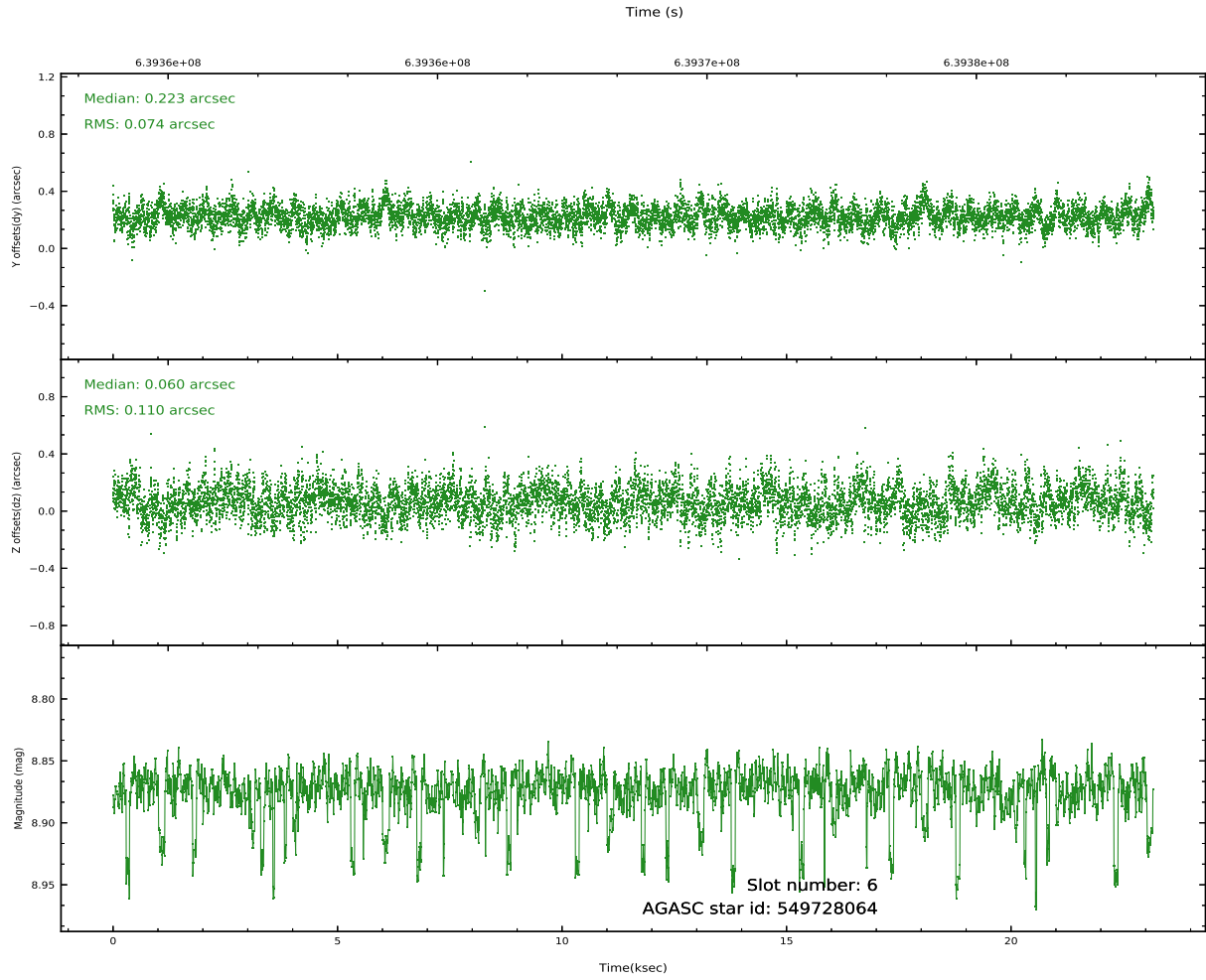
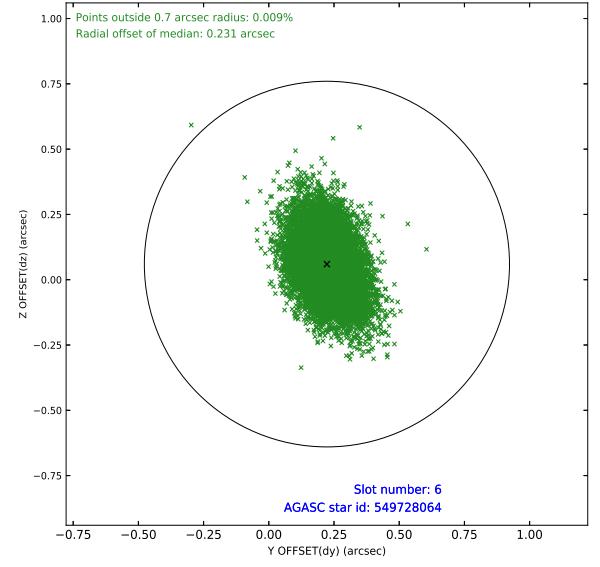
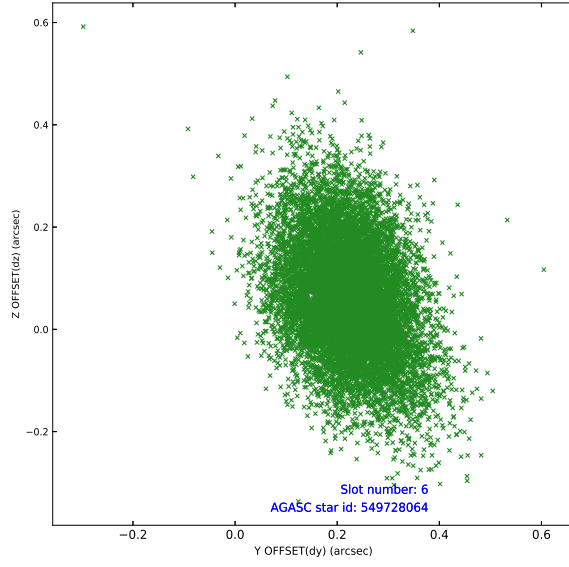
2.4.2 Slot 4



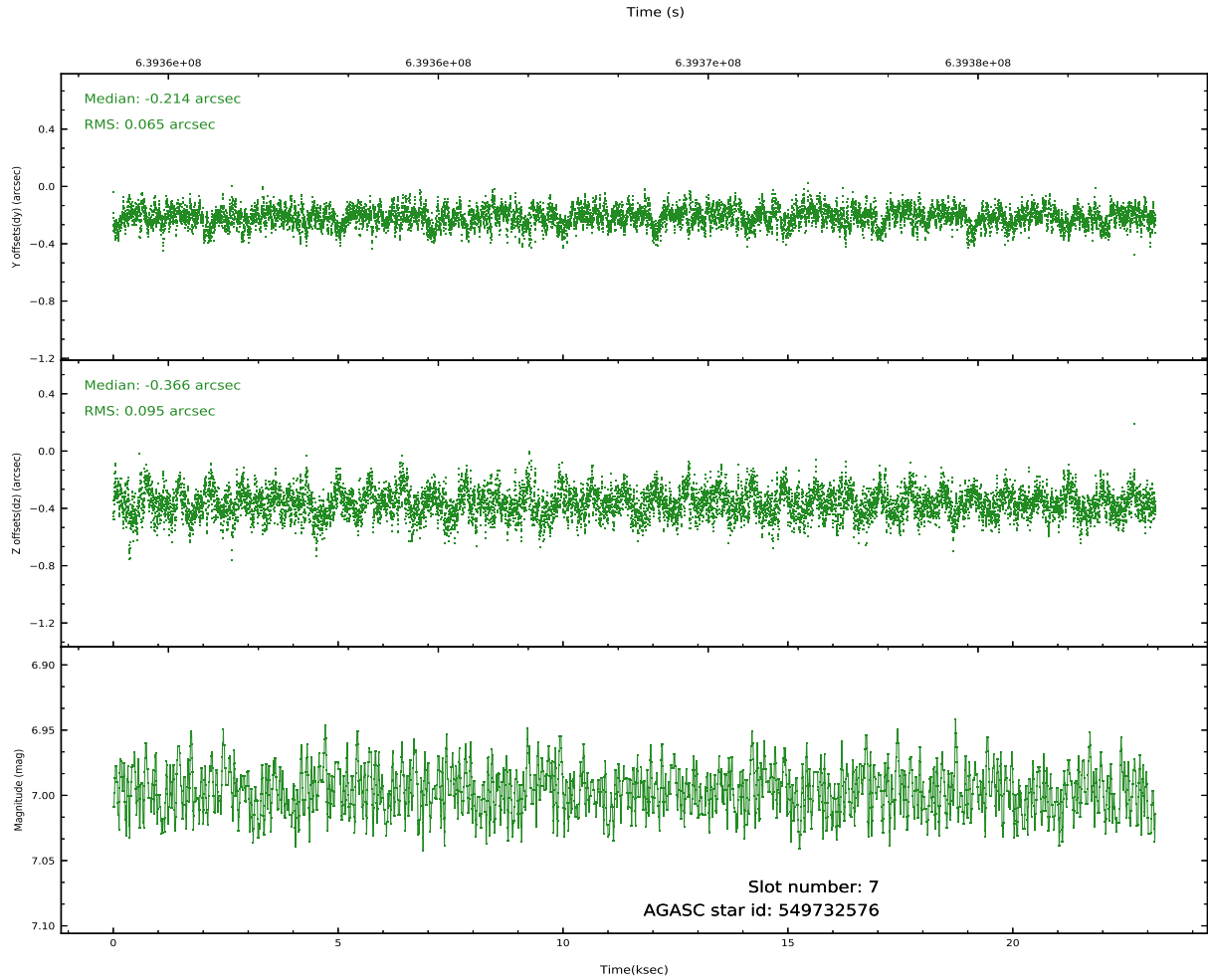
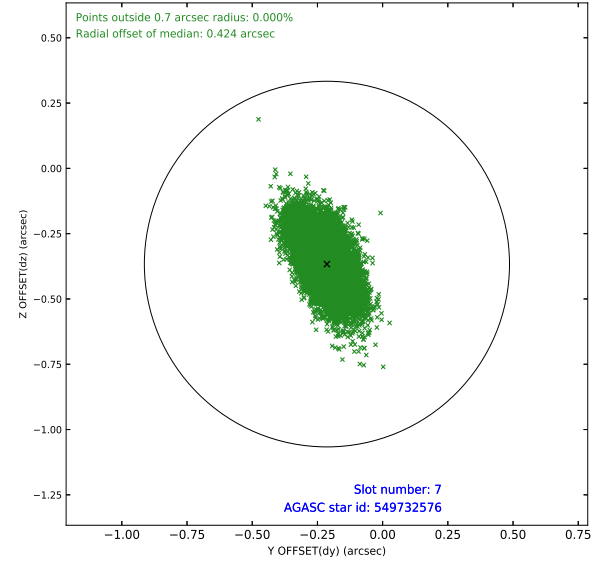
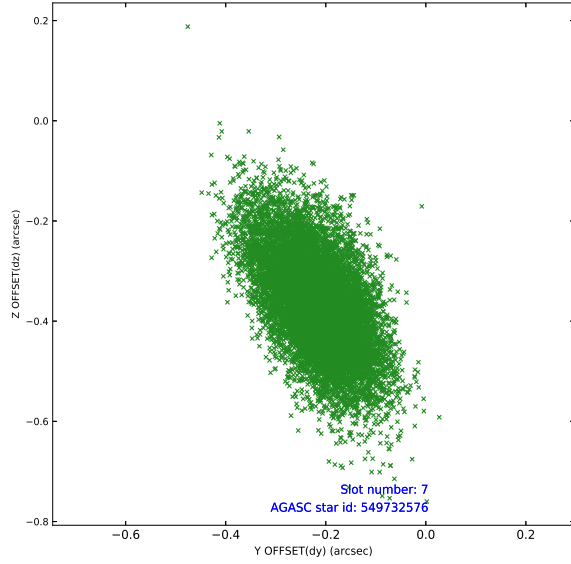
2.4.3 Slot 5



2.4.4 Slot 6

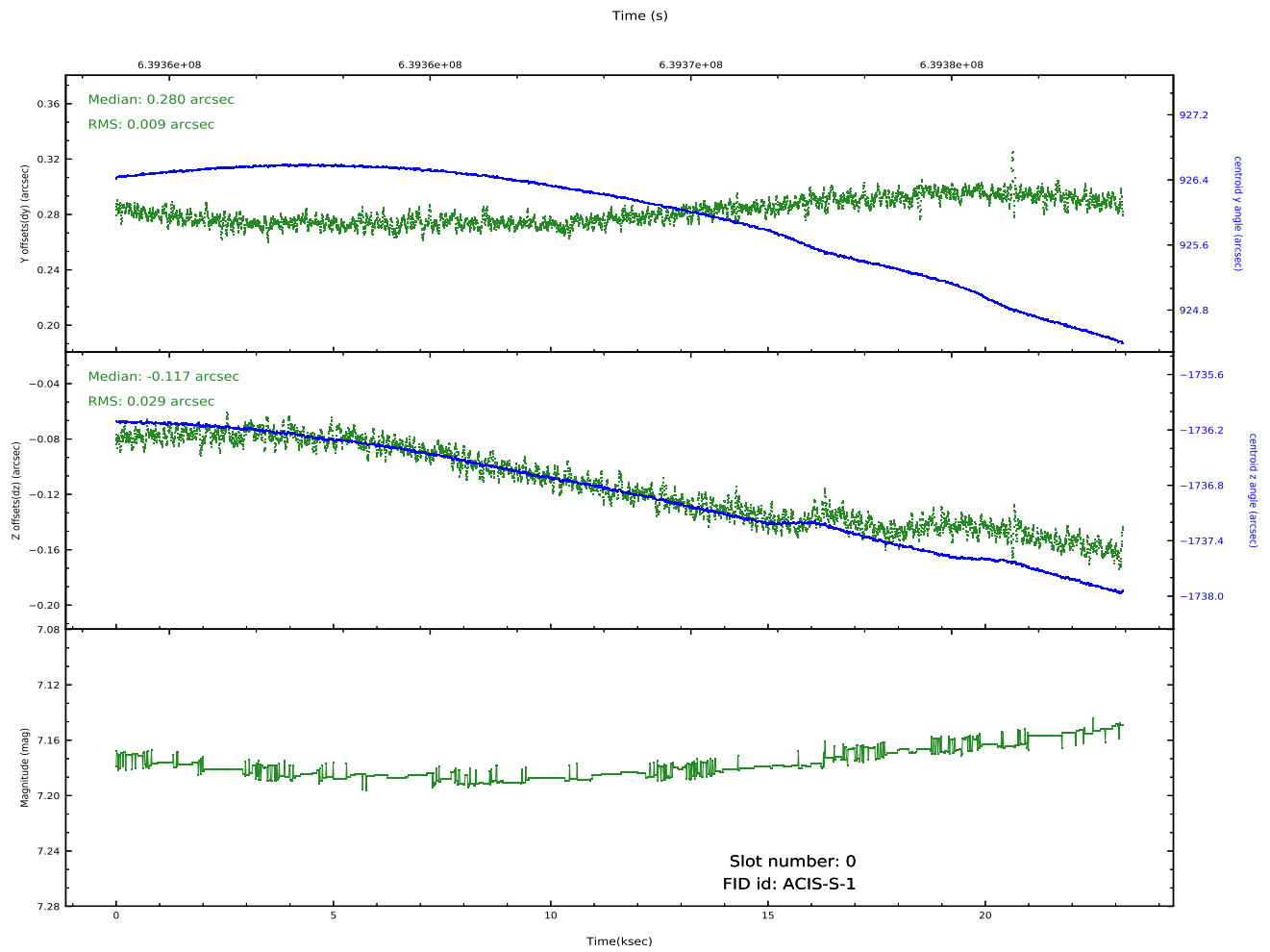
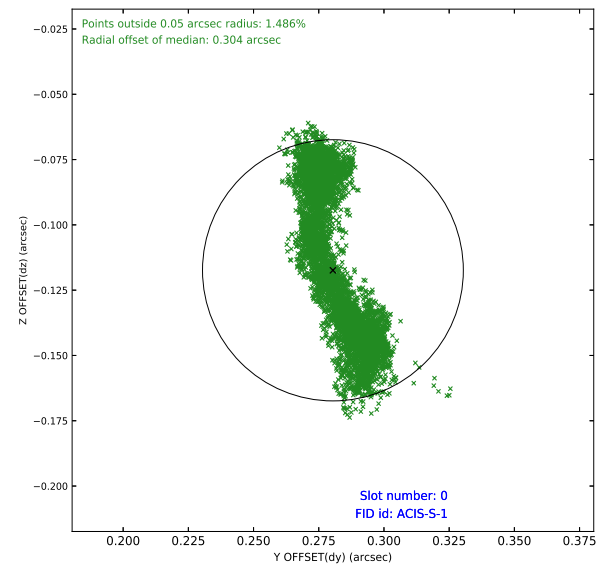
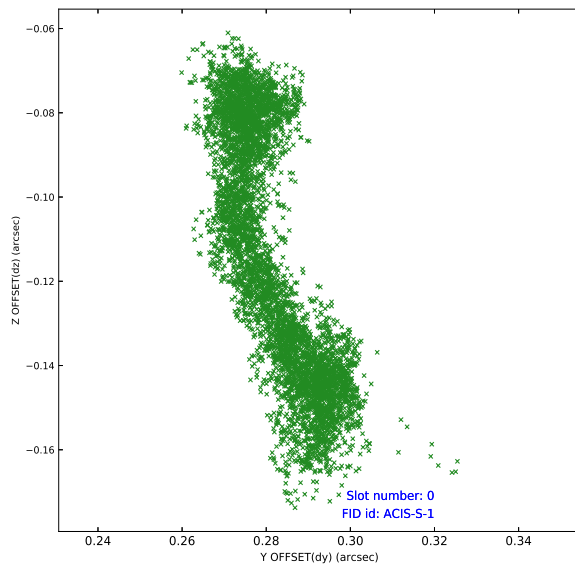


2.4.5 Slot 7

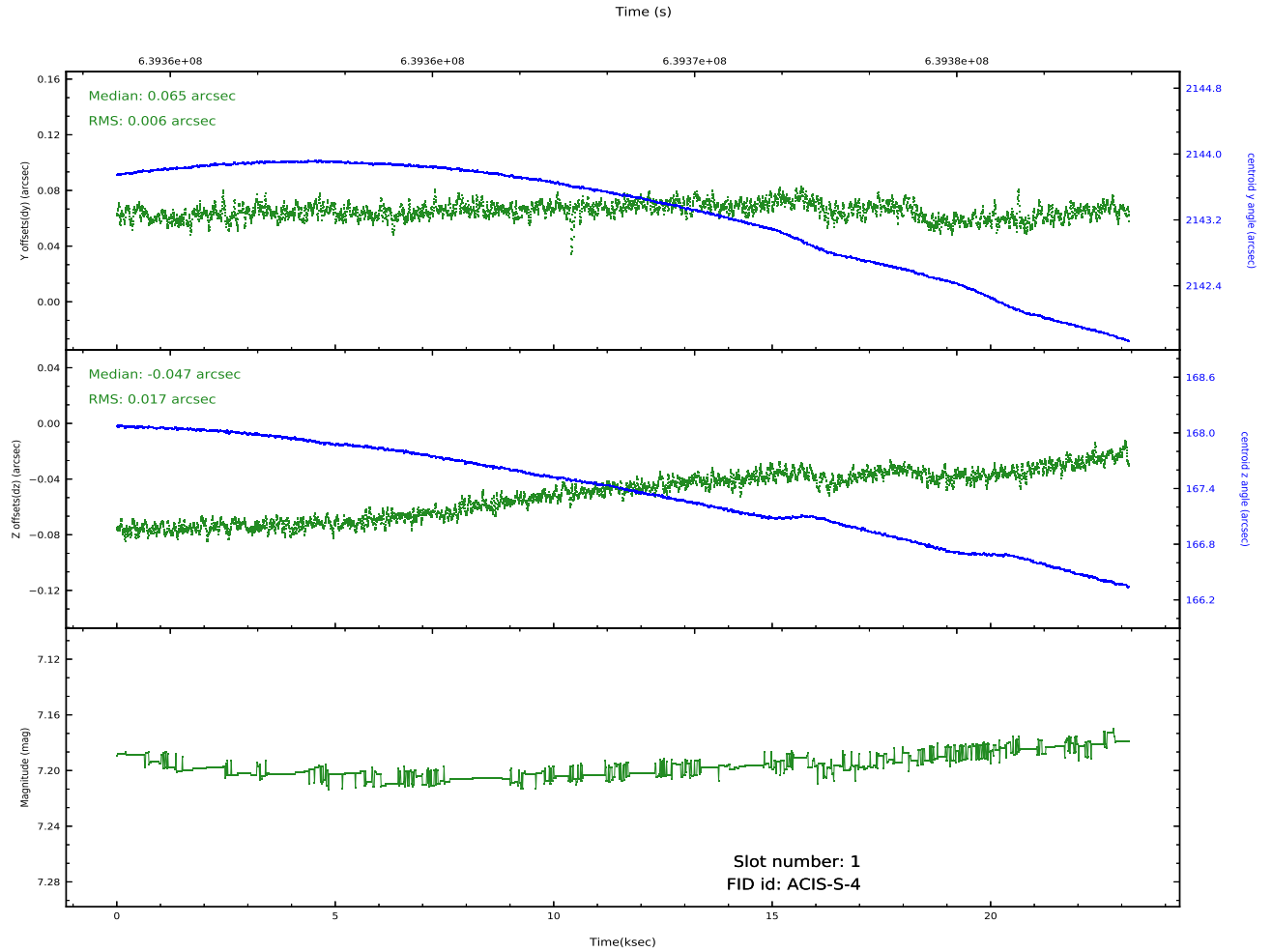
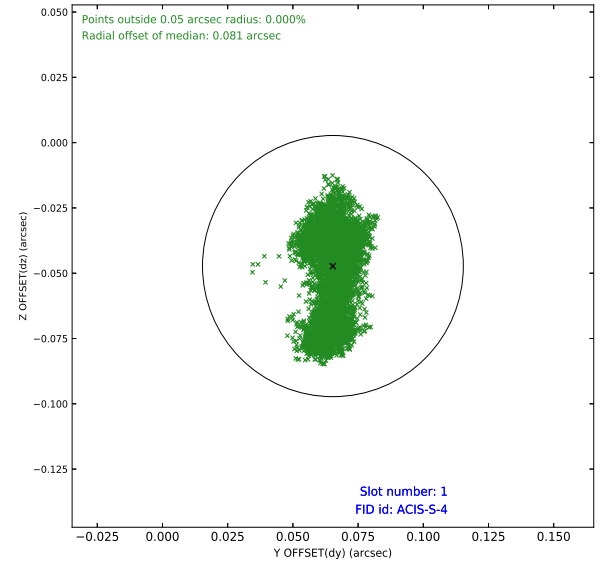
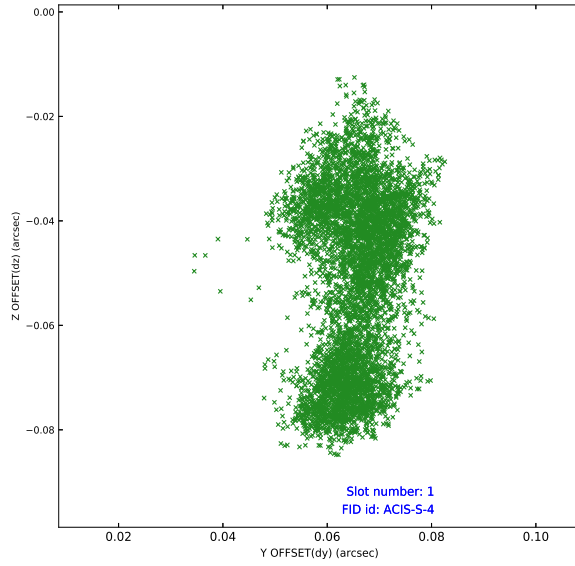


2.5 FID Slots

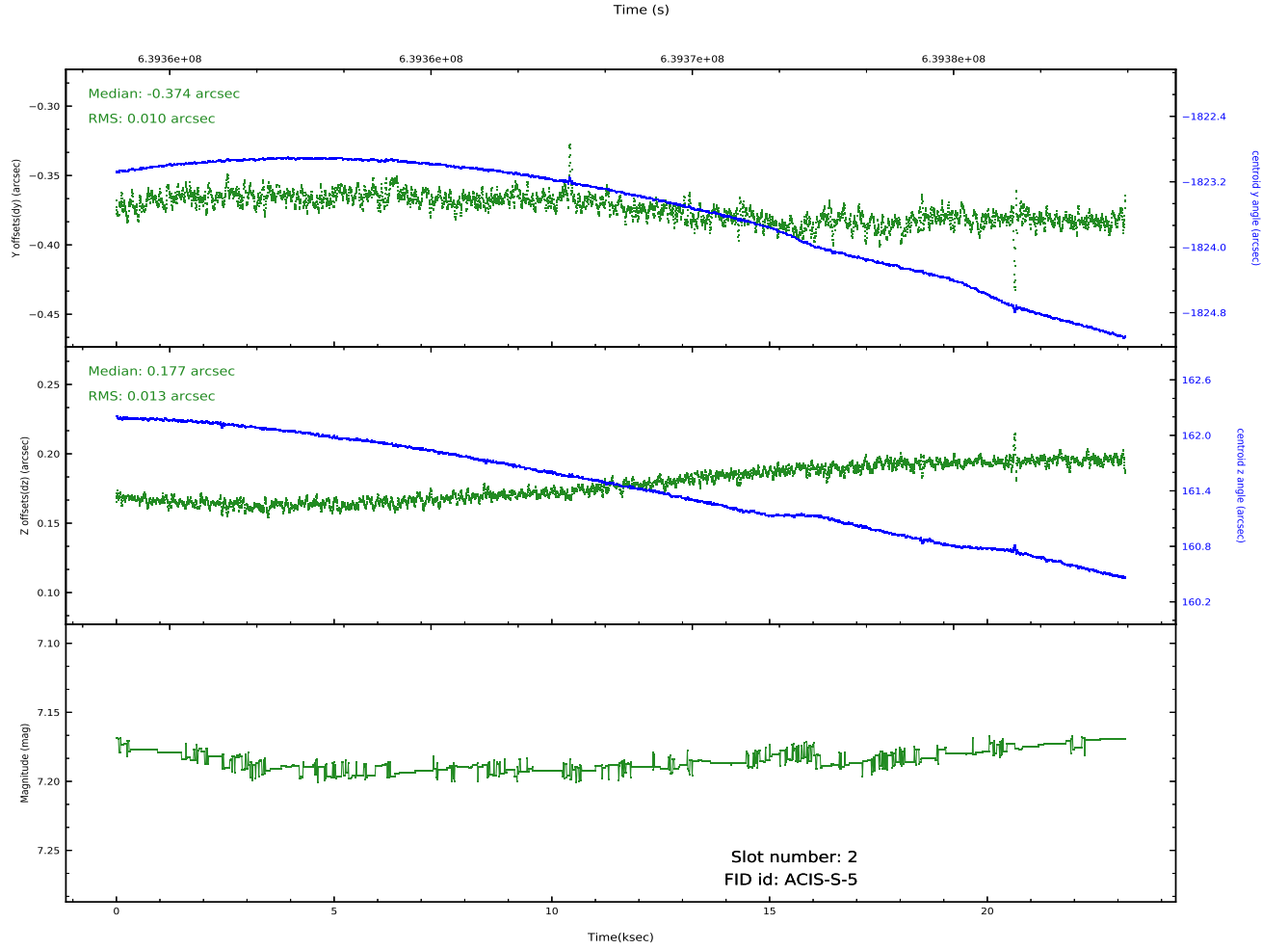
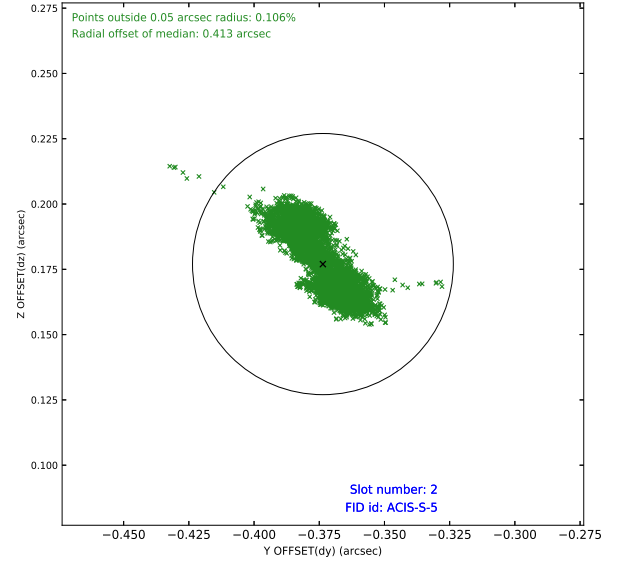
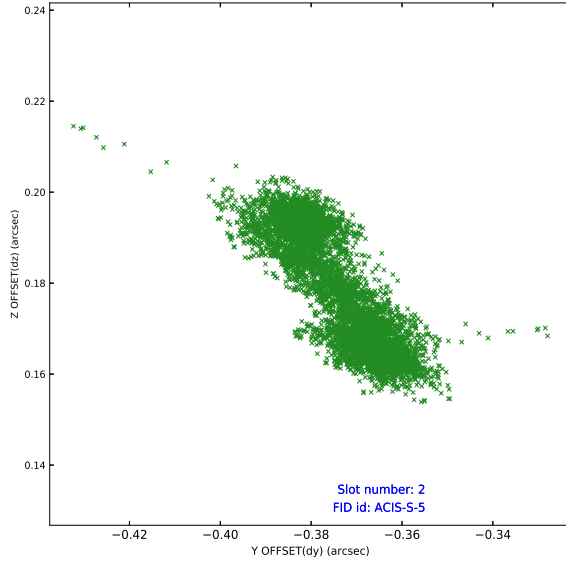
2.5.1 Slot 0



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	23.053886511445

A.2 Comments