

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5383 - L2 Version 4
Chandra X-Ray Center

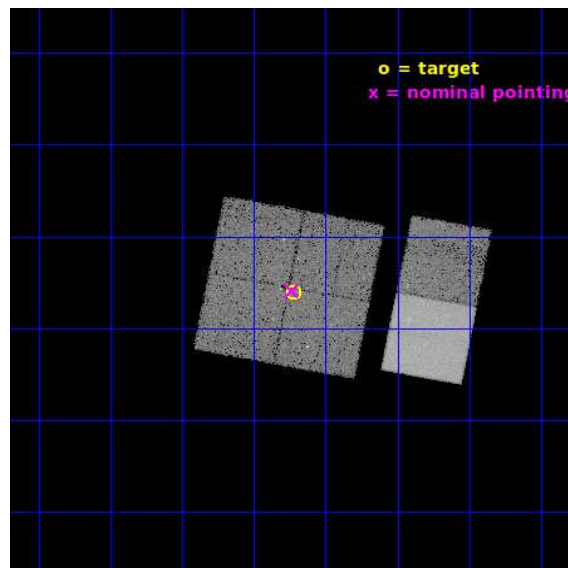
L2 Processing Date : Oct 9 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

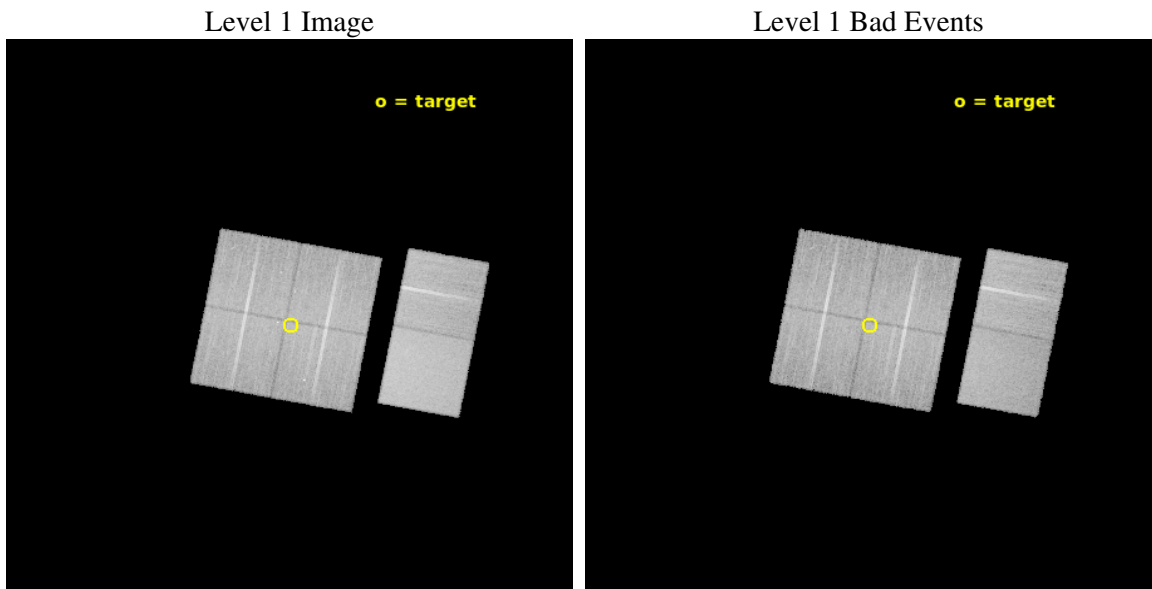
seq_num	200318	Sequence number
obs_id	5383	Observation id
title	X-ray Imaging of McNeil's Star: Witnessing the Onset of an Accretion Burst	Proposal title
observer	Joel Kastner	Principal investigator
object	IRAS05436-0007	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	86.554583	Observer's specified target RA [deg]
dec_targ	-0.101389	Observer's specified target Dec [deg]
ra_nom	86.558834288373	Nominal RA [deg]
dec_nom	-0.097967346800059	Nominal Dec [deg]
roll_nom	100.80584997366	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20134.399924994	Sum of GTIs [s]
livetime	19879.446029663	Livetime [s]
ontime0	20131.158934772	Sum of GTIs [s]
ontime1	20131.15895471	Sum of GTIs [s]
ontime2	20134.399924994	Sum of GTIs [s]
ontime3	20134.399924994	Sum of GTIs [s]
ontime6	20134.399924994	Sum of GTIs [s]
ontime7	20134.399924994	Sum of GTIs [s]
l2events	159384	Number of level 2 events



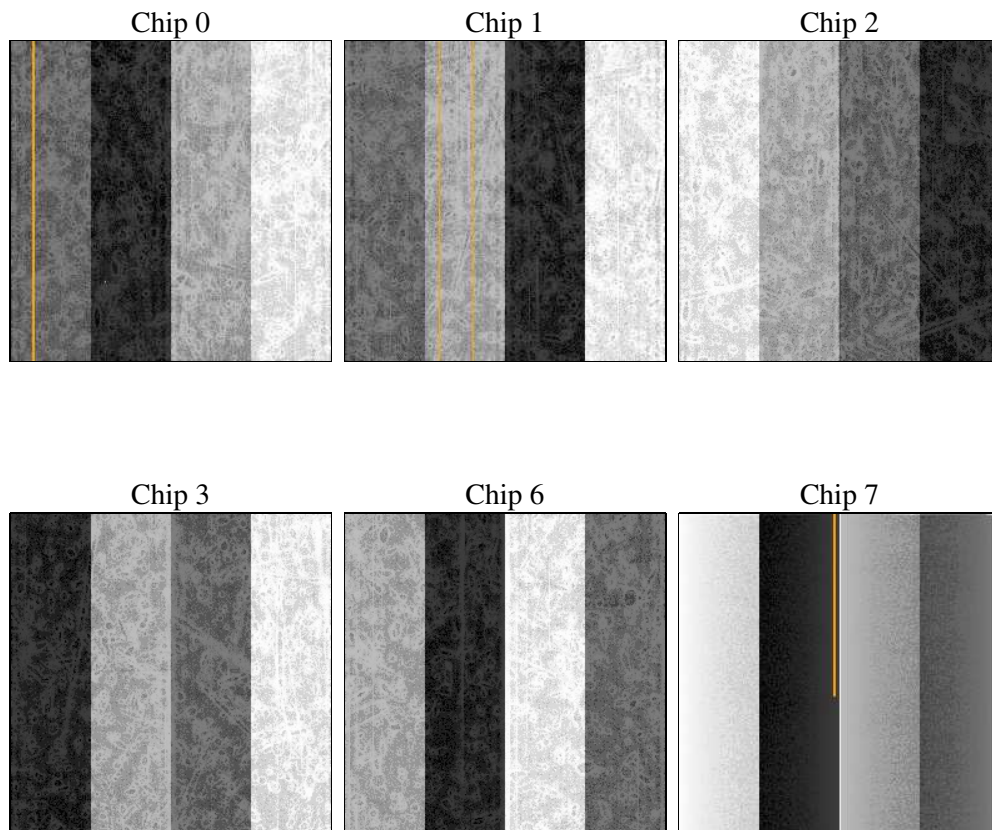
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	3	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20134.399924994	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	20131.158934772	Sum of GTIs [s]
date	2020-10-10T00:12:00	Date and time of file creation	ontime1	20131.15895471	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	20134.399924994	Sum of GTIs [s]
			ontime3	20134.399924994	Sum of GTIs [s]
			ontime6	20134.399924994	Sum of GTIs [s]
			ontime7	20134.399924994	Sum of GTIs [s]
			l1events	938764	Number of level 1 events

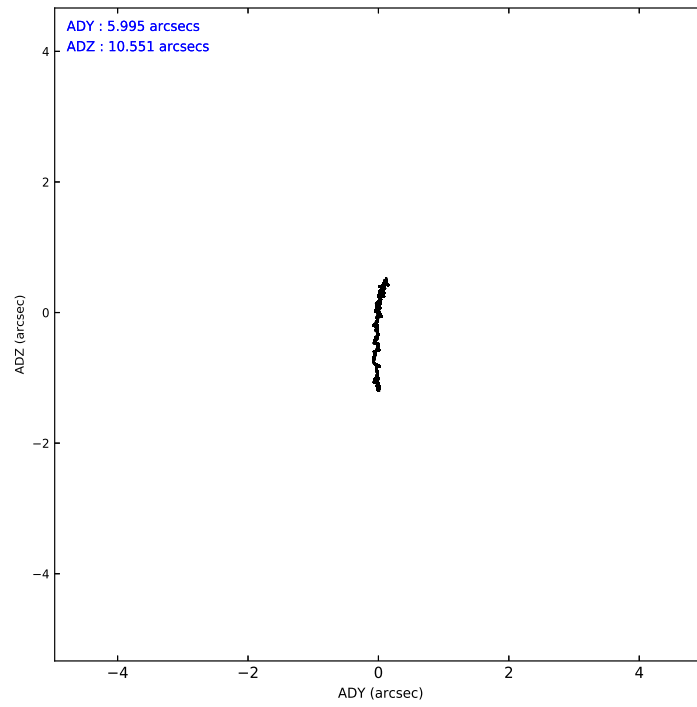
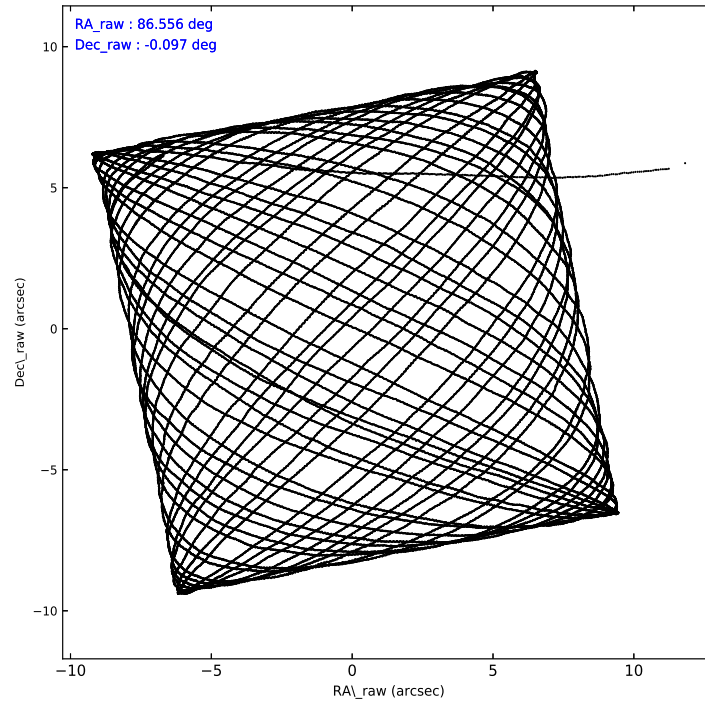
2.1.4 Events

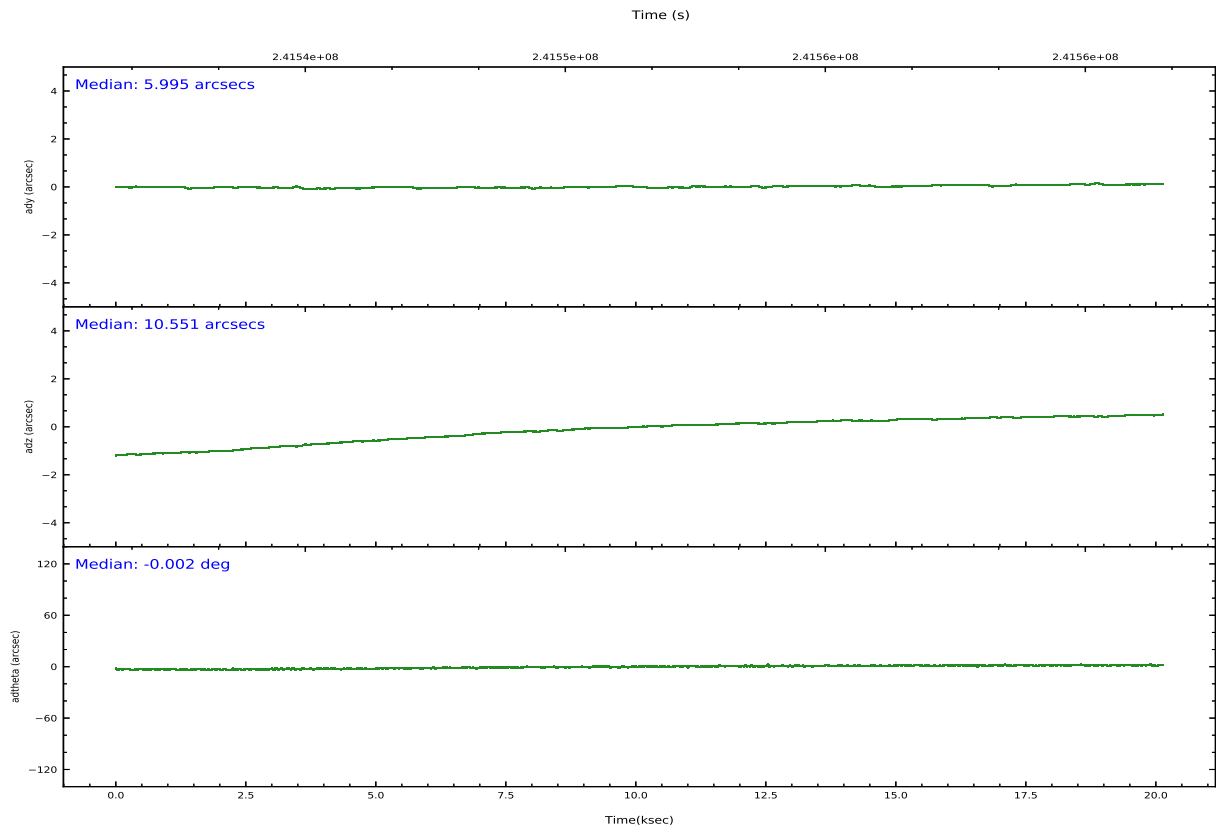
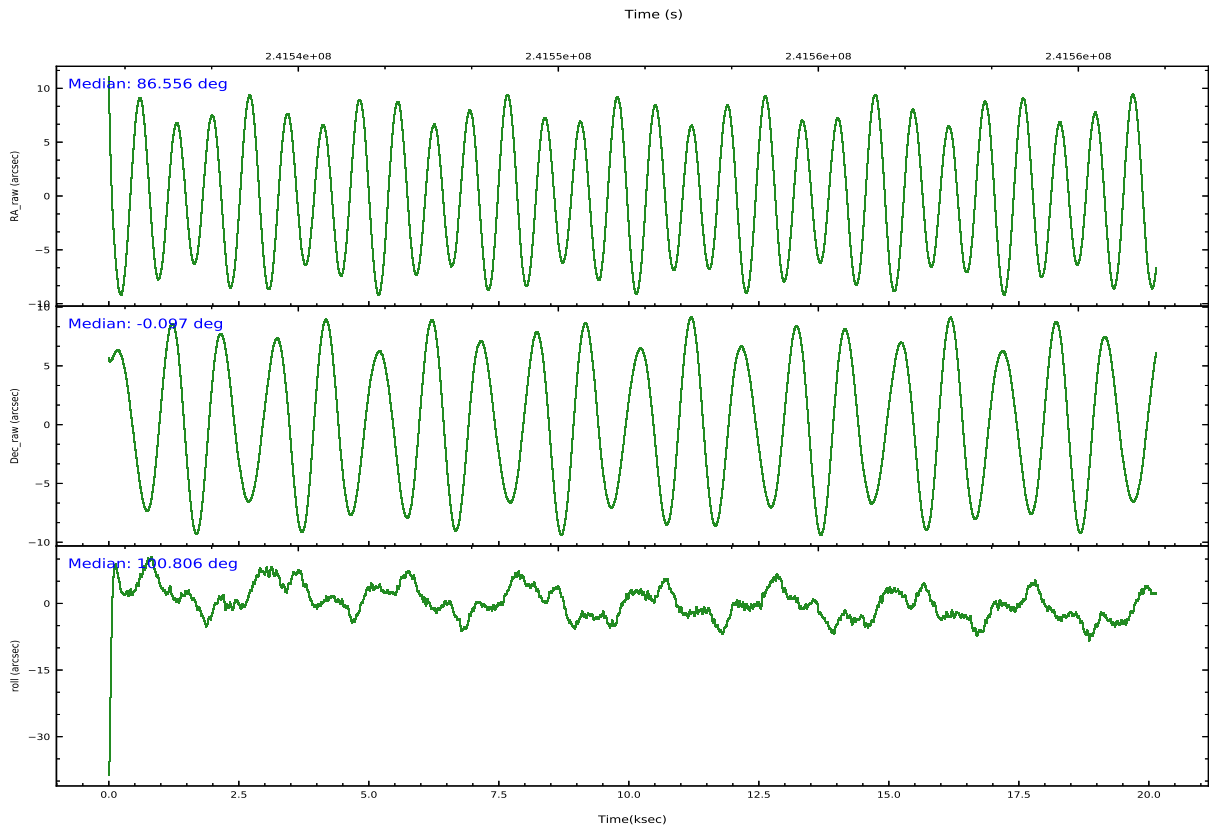
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	139722	141931	146204	145202	159689	206016	grade 0 events	7799	7522	8171	8194	7028	6987
rejected events	121561	122406	128233	126692	141412	123458		5%	5%	5%	5%	4%	3%
rejected %	87%	86%	87%	87%	88%	59%	grade 1 events	89	81	97	106	76	205
								0%	0%	0%	0%	0%	0%
							grade 2 events	4115	4558	3730	3719	4122	16651
								2%	3%	2%	2%	2%	8%
							grade 3 events	1668	1886	1683	1766	1748	7125
								1%	1%	1%	1%	1%	3%
							grade 4 events	1617	1879	1631	1743	1706	7314
								1%	1%	1%	1%	1%	3%
							grade 5 events	6035	6233	5820	6581	7133	19321
								4%	4%	3%	4%	4%	9%
							grade 6 events	3231	3944	2993	3324	3923	45605
								2%	2%	2%	2%	2%	22%
							grade 7 events	115168	115828	122079	119769	133953	102808
								82%	81%	83%	82%	83%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
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	86.573533	86.55883428837301	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.117508	-0.097967346800059	Alternating exposures requested	N	N
[deg] Pointing Roll	100.596906	100.80584997366	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	241541496.184000	241540308.79993			
Observation start date	2005-08-27T14:50:32	2005-08-27T14:31:48			
[s] Observation end time (MET)	241561496.184000	241562121.31343			
Observation end date	2005-08-27T20:23:52	2005-08-27T20:35:21			
Read mode	TIMED	TIMED			

2.3 Aspect





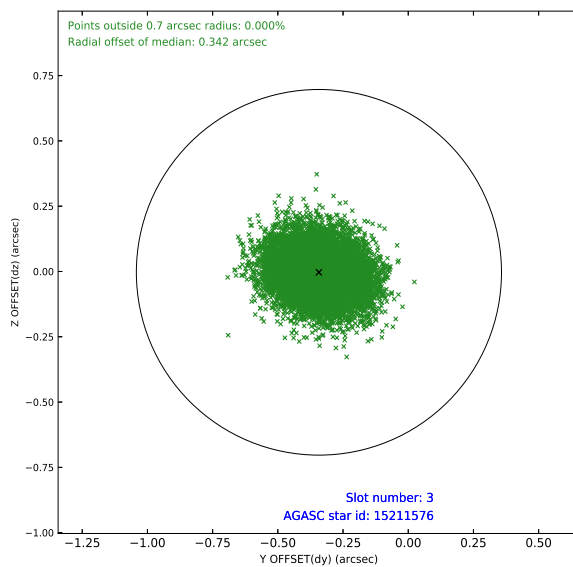
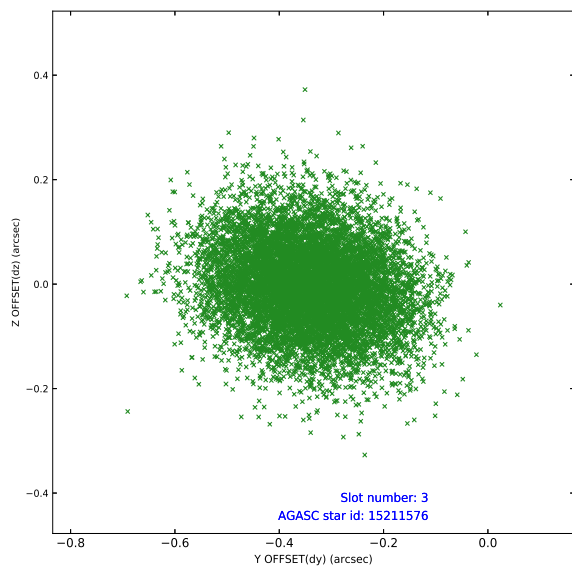
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	4912	1.000	0.035	-0.034	0.023	0.048	0.000000	0.000000	933.73	-833
1	FID		ACIS-I-5	7.23	4913	1.000	-0.203	0.035	0.012	0.018	0.000000	0.000000	-1814.50	1063
2	FID		ACIS-I-6	7.26	4913	1.000	0.078	0.066	0.015	0.032	0.000000	0.000000	399.13	1708
3	GUIDE	used	15211576	10.44	9821	1.000	-0.342	-0.003	0.137	0.218	86.250116	0.372772	1948.72	820
4	GUIDE	used	624820768	9.12	9820	1.000	-0.008	-0.106	0.100	0.154	86.202480	-0.061953	442.45	1276
5	GUIDE	used	624954088	9.59	9752	1.000	0.134	-0.075	0.099	0.163	86.606399	-0.671650	-1982.39	250
6	GUIDE	used	624954400	9.16	9821	1.000	0.142	-0.001	0.073	0.118	86.607838	-0.762568	-2305.30	305
7	GUIDE	used	624955288	9.59	9817	1.000	0.076	0.180	0.089	0.142	87.070368	-0.669957	-2284.01	-1391

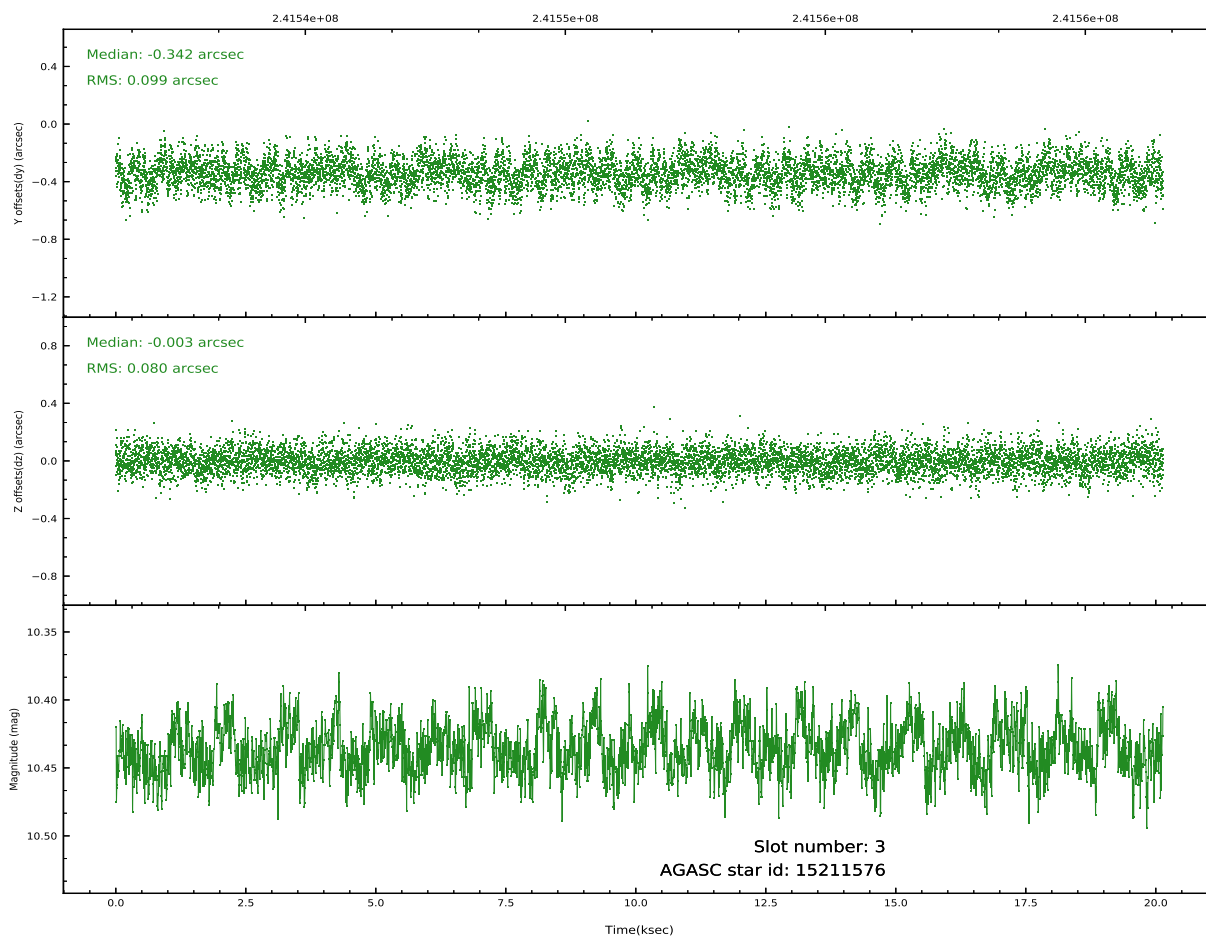
∞

2.4 Star Slots

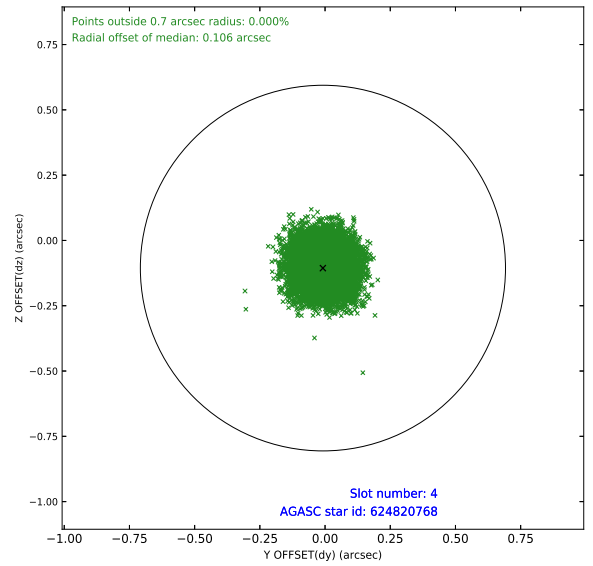
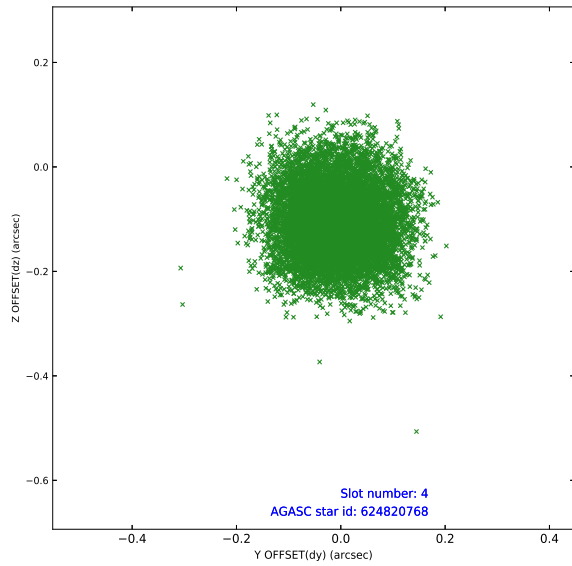
2.4.1 Slot 3



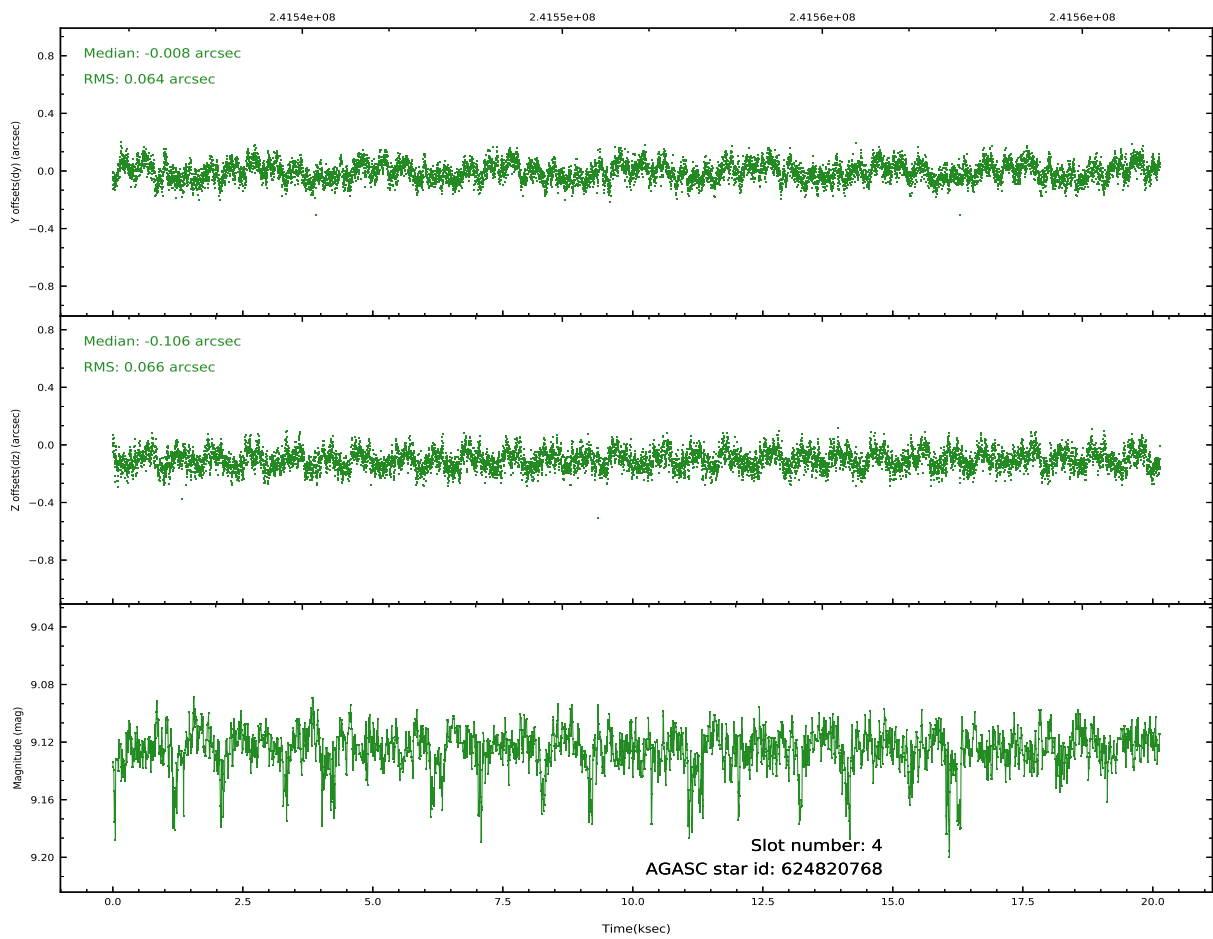
Time (s)



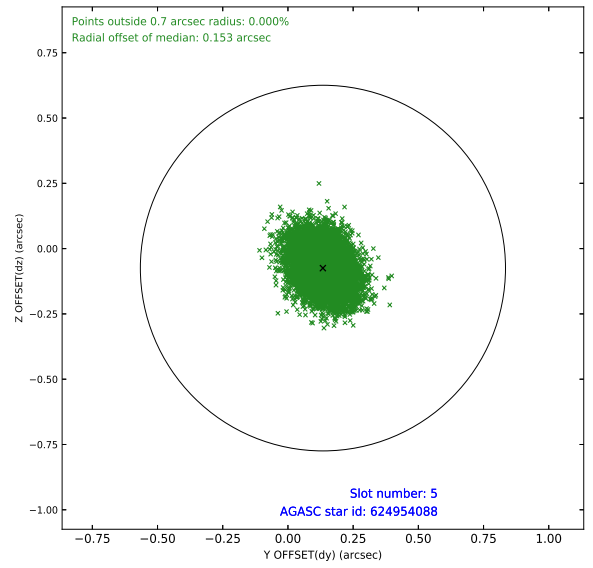
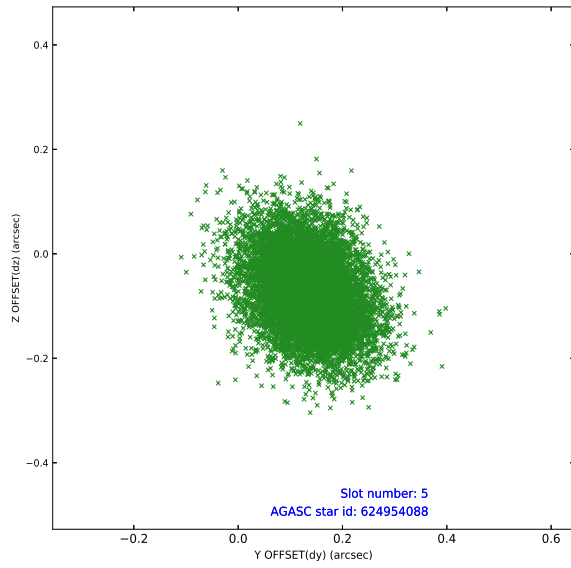
2.4.2 Slot 4



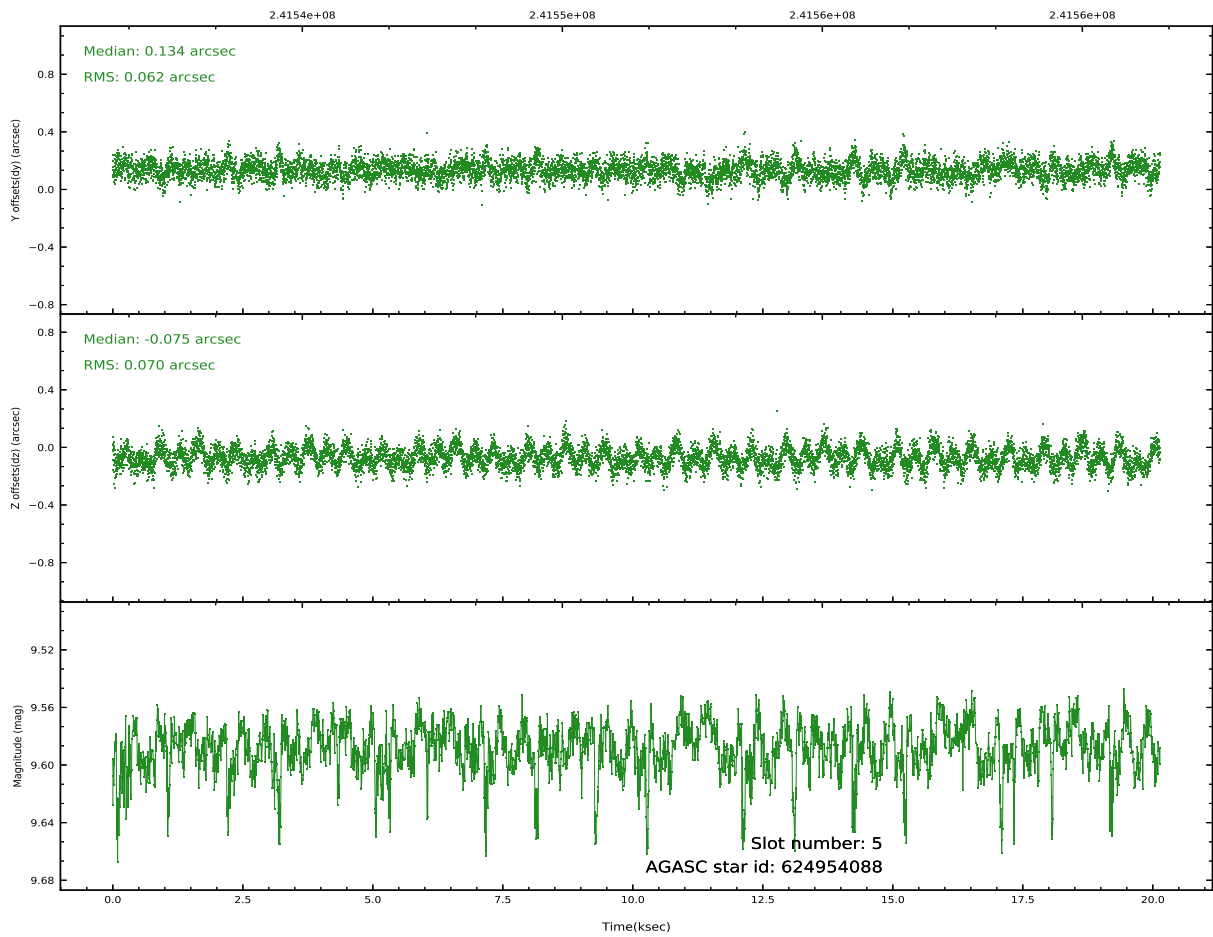
Time (s)



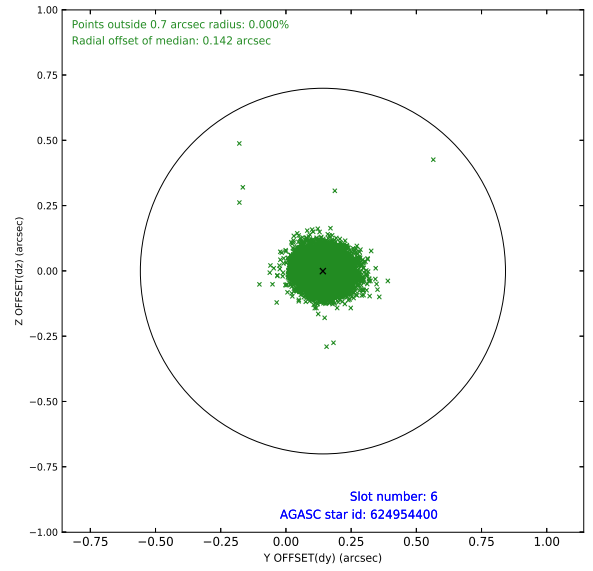
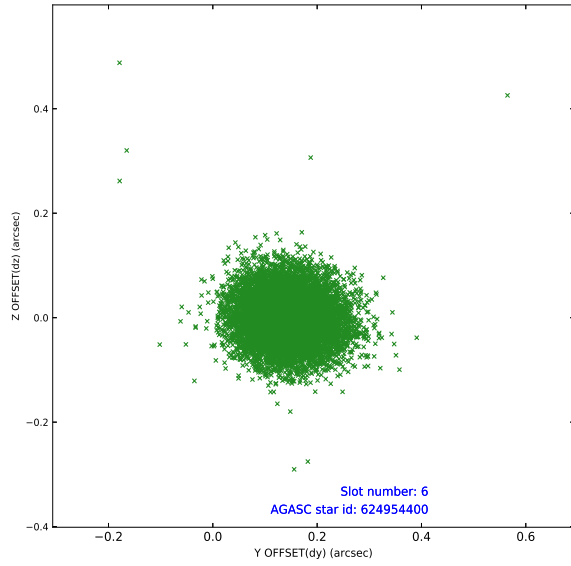
2.4.3 Slot 5



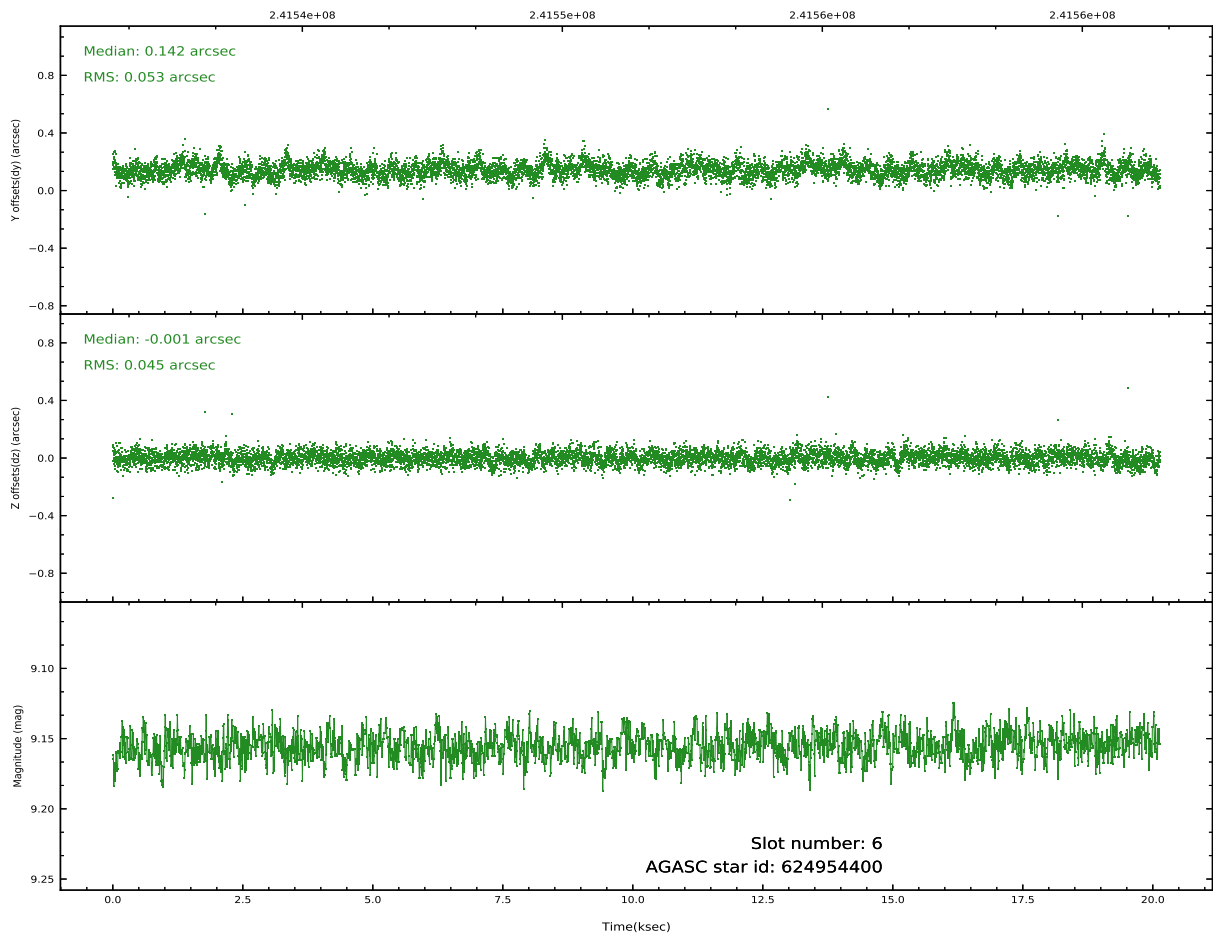
Time (s)



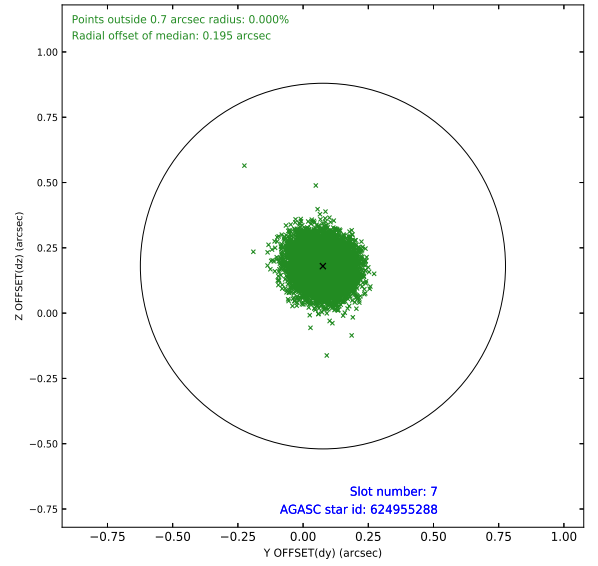
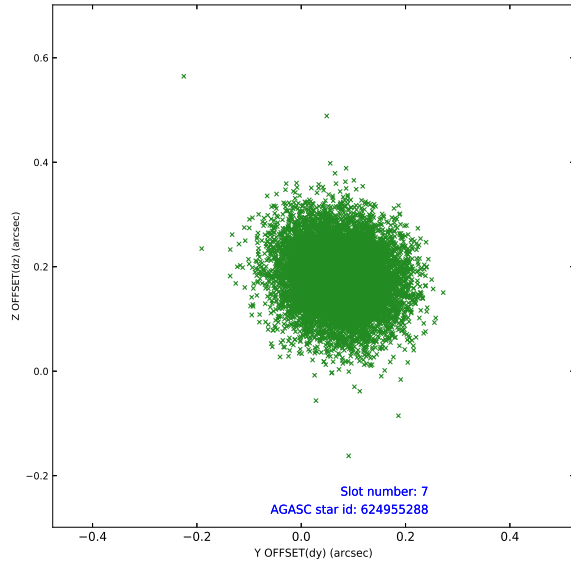
2.4.4 Slot 6



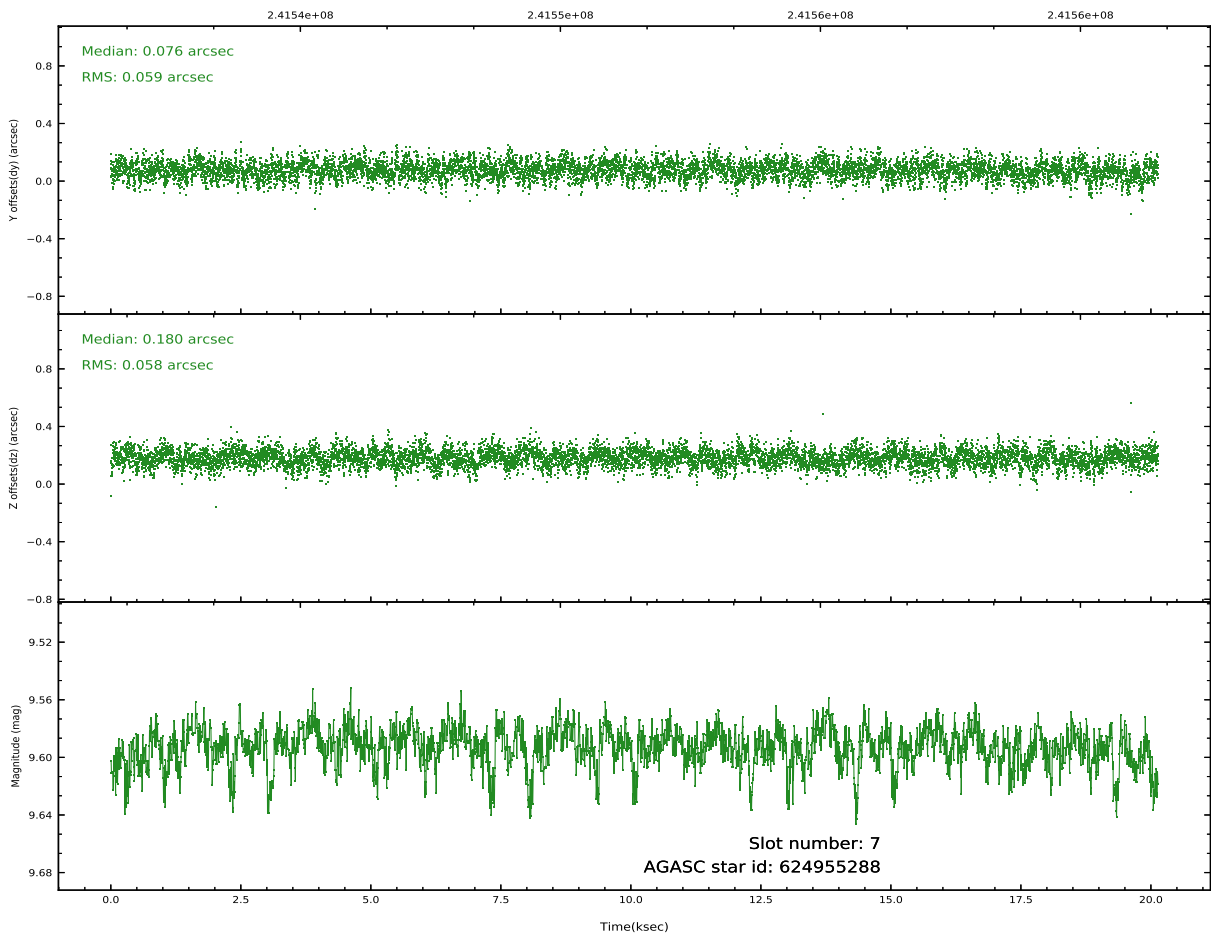
Time (s)



2.4.5 Slot 7

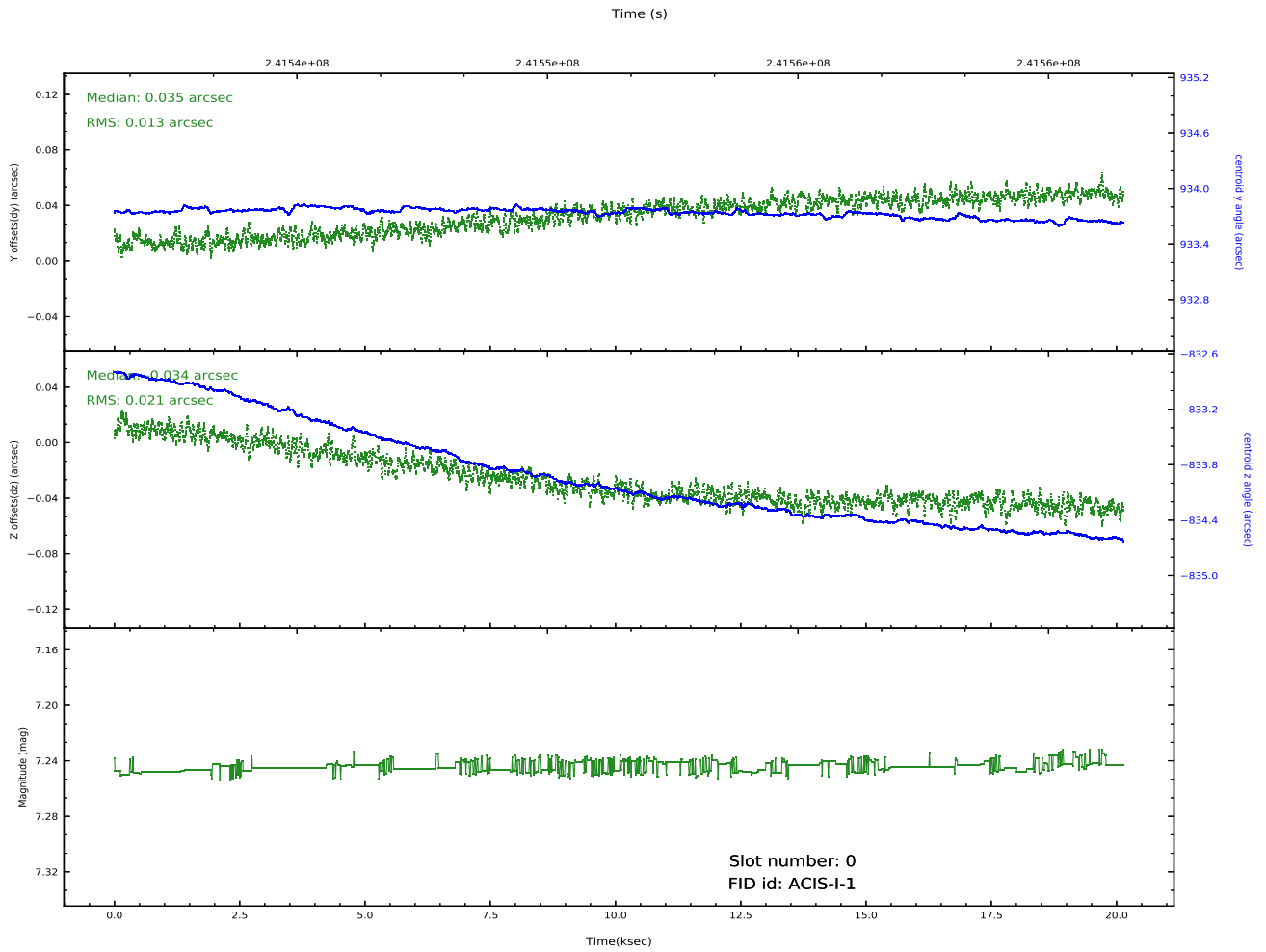
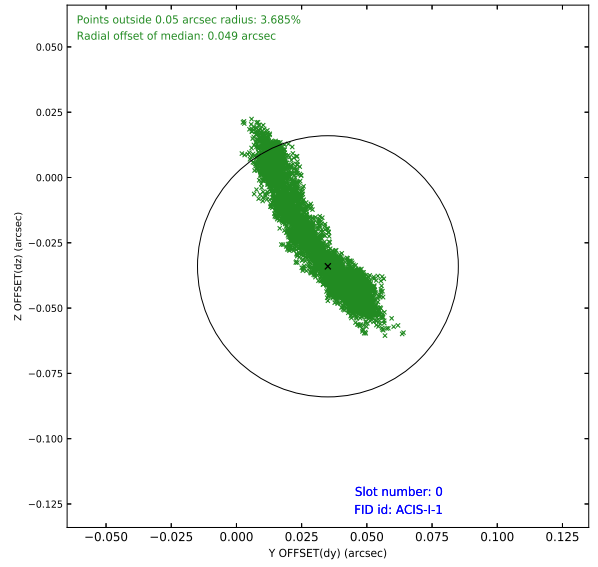
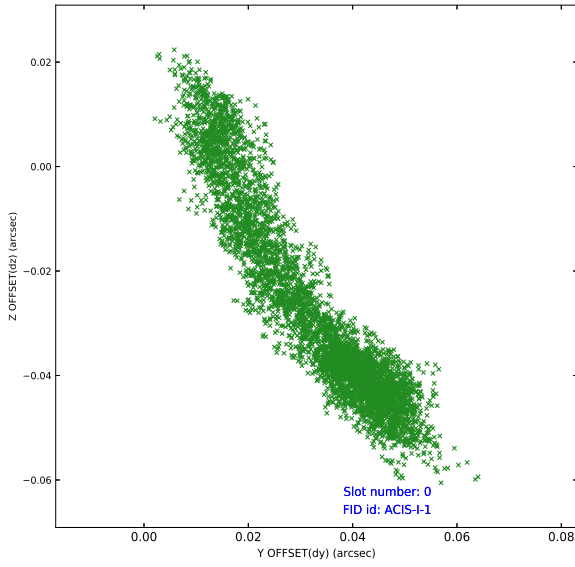


Time (s)

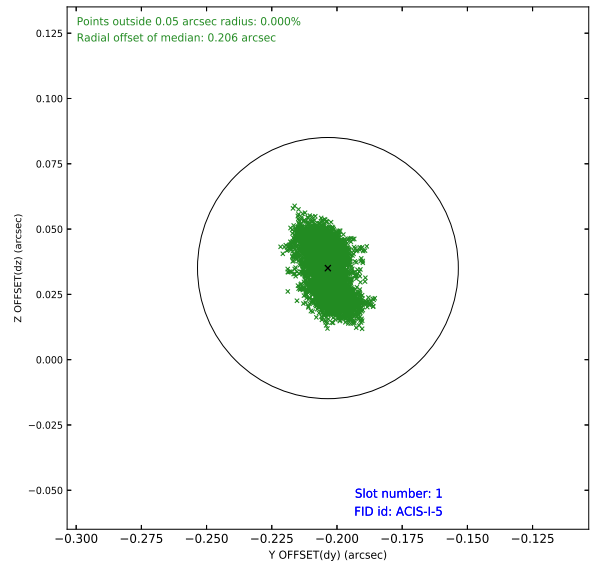
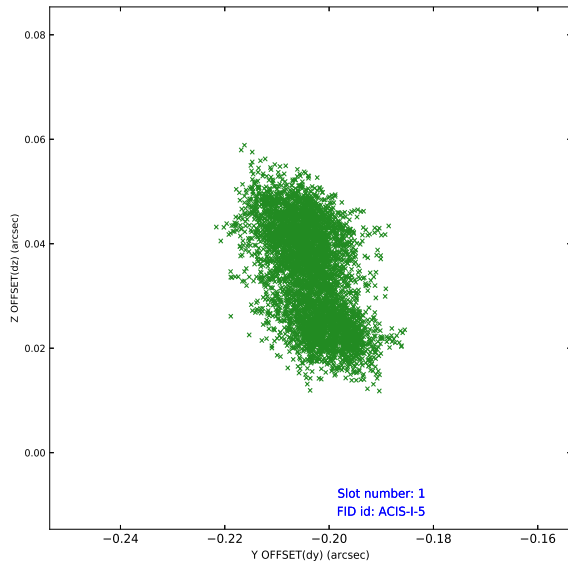


2.5 FID Slots

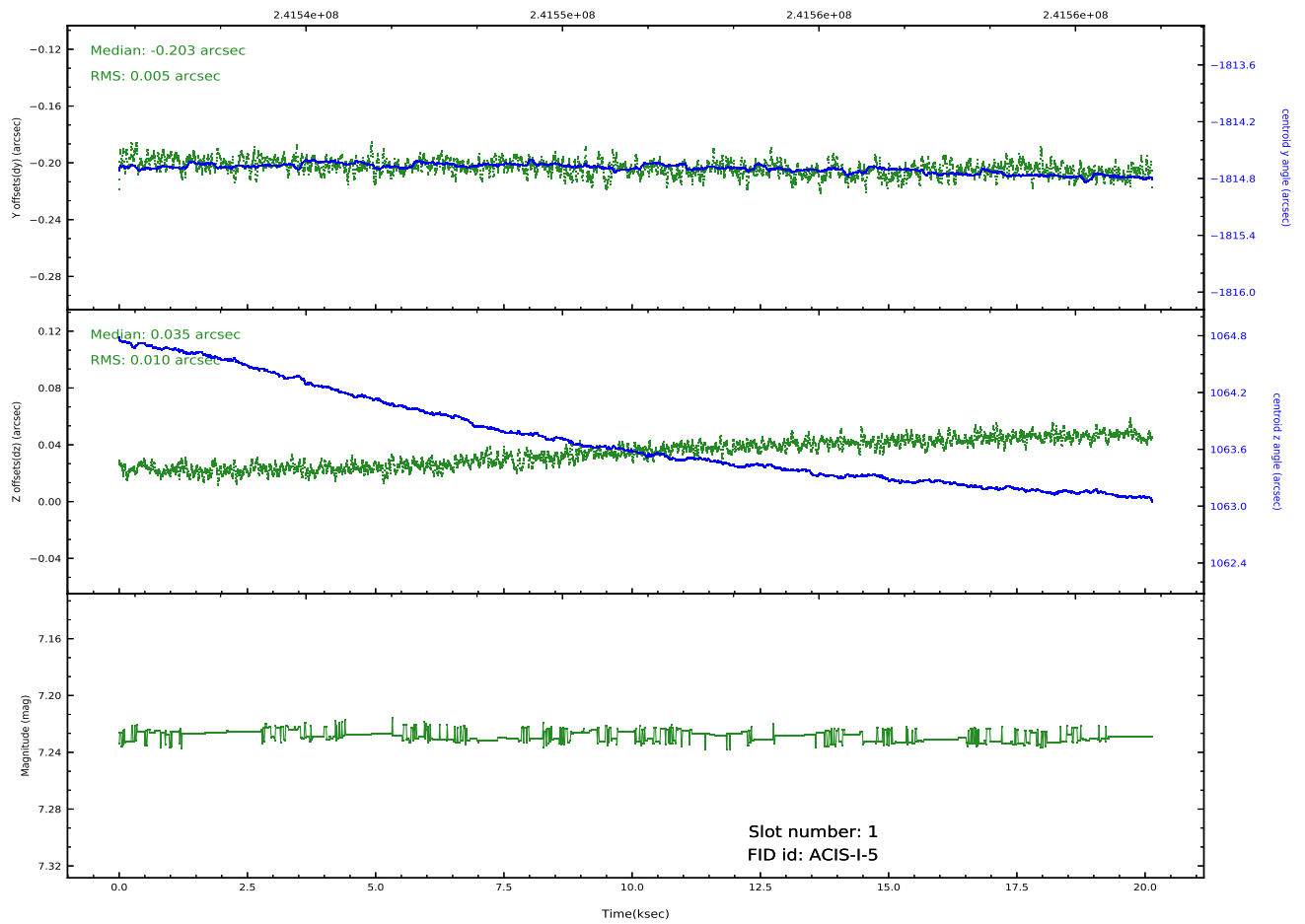
2.5.1 Slot 0



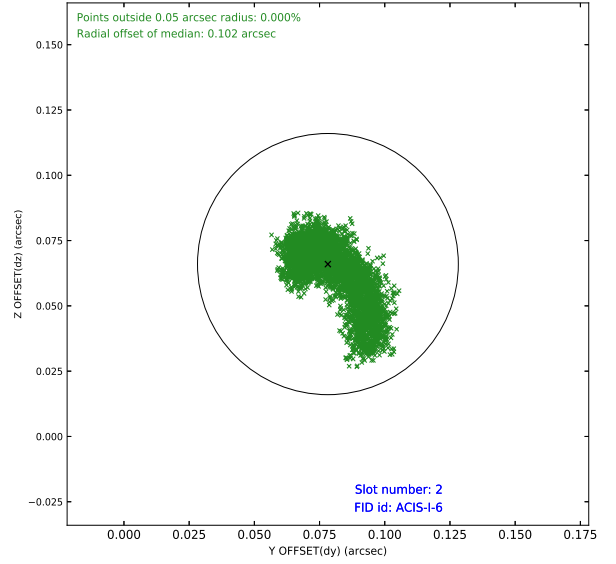
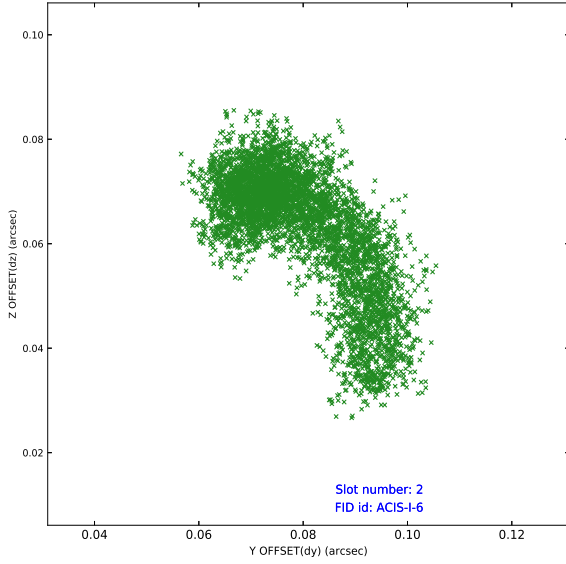
2.5.2 Slot 1



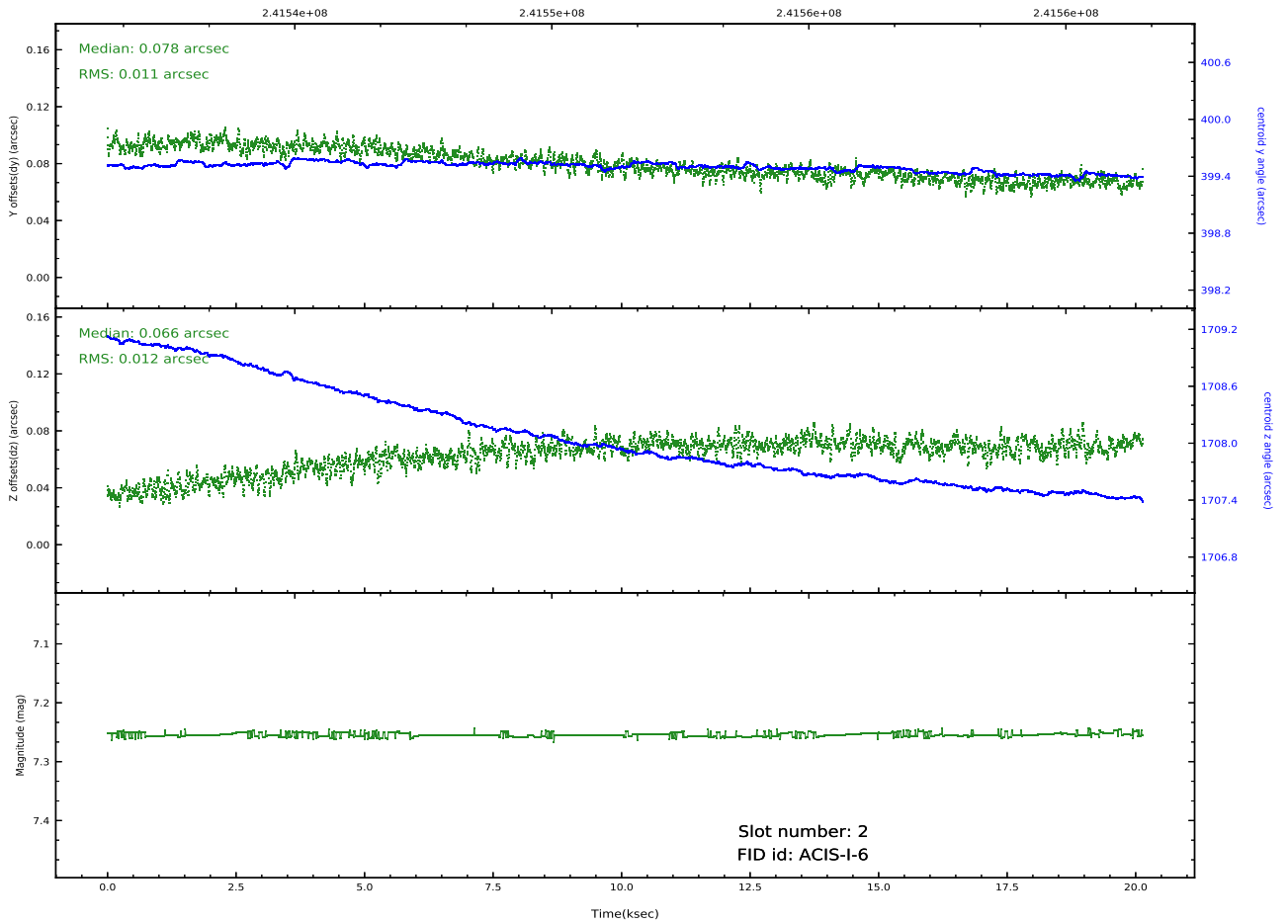
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.13439

A.2 Comments

Window constraint met.