

# V&V Reference Report

## L2 ASCDS Version : 10.9.2

Observation 19585 - L2 Version 2  
Chandra X-Ray Center

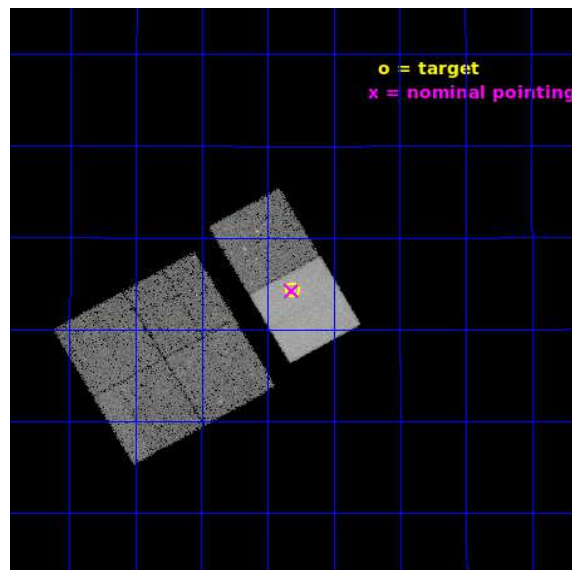
L2 Processing Date : Oct 24 2020

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# 1 Front

seq_num	801674	Sequence number
obs_id	19585	Observation id
title	The Unusually High Concentration of the Fossil Group NGC 6482	Prop
observer	David Buote	Principal investigator
object	NGC 6482	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.953333	Observer's specified target RA [deg]
dec_targ	23.071944	Observer's specified target Dec [deg]
ra_nom	267.95424895099	Nominal RA [deg]
dec_nom	23.070996063216	Nominal Dec [deg]
roll_nom	60.144278293793	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19951.066691637	Sum of GTIs [s]
livetime	19698.434272097	Livetime [s]
ontime0	19951.107731581	Sum of GTIs [s]
ontime1	19950.902531624	Sum of GTIs [s]
ontime2	19950.943571568	Sum of GTIs [s]
ontime3	19950.98461163	Sum of GTIs [s]
ontime6	19951.025651574	Sum of GTIs [s]
ontime7	19951.066691637	Sum of GTIs [s]
l2events	154024	Number of level 2 events

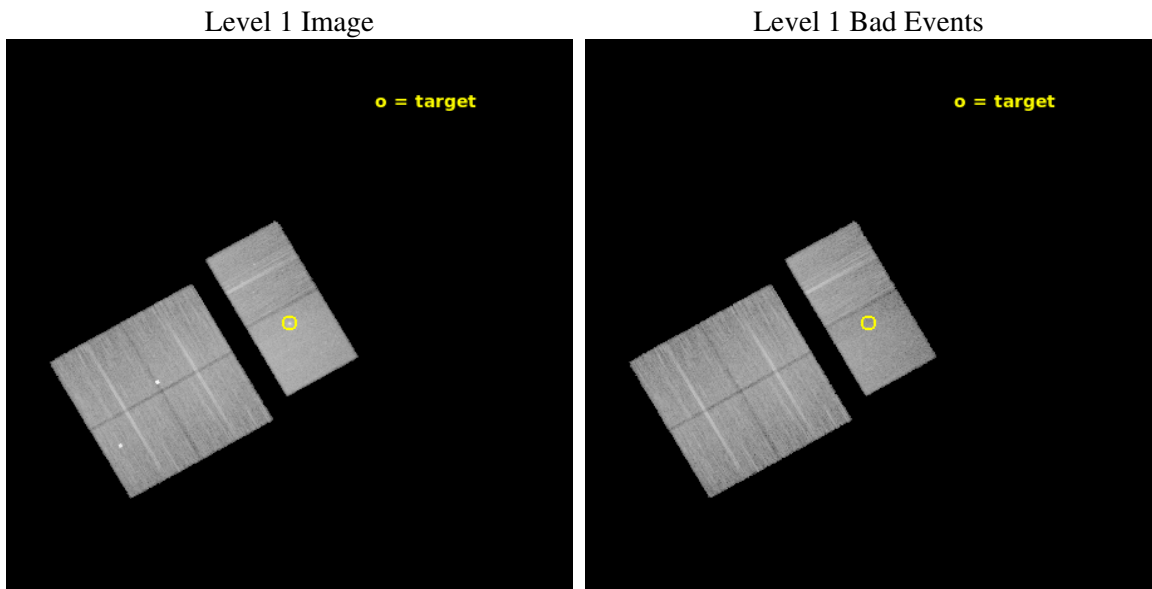




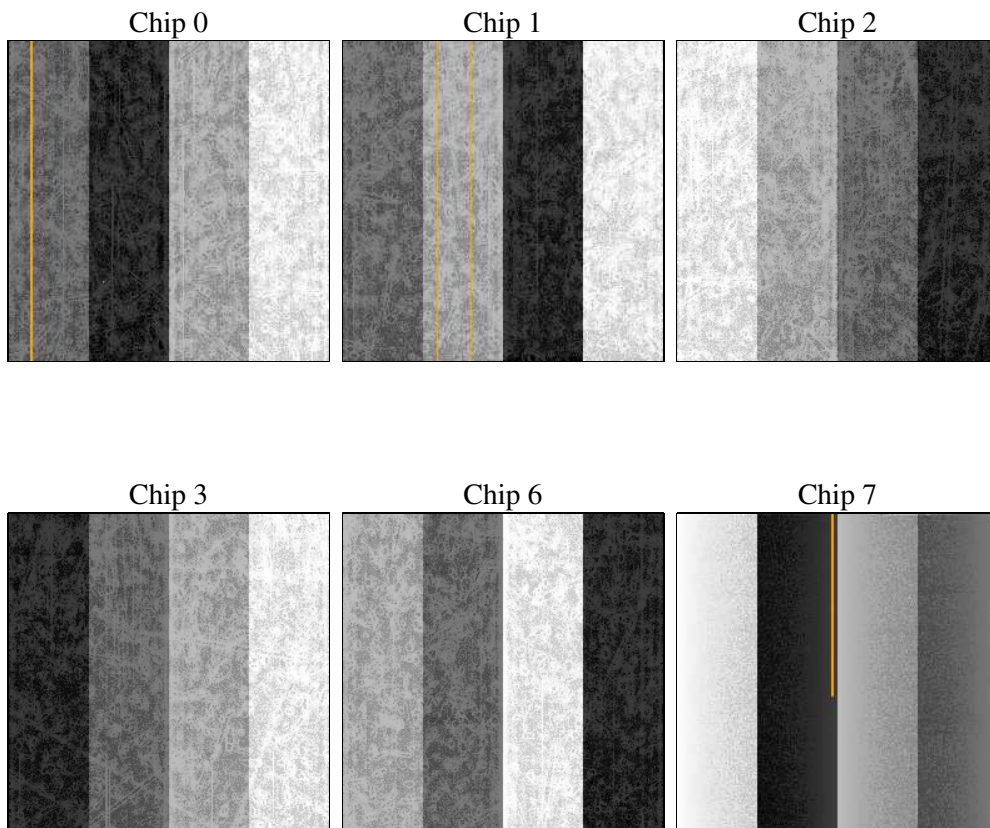
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	19951.066691637	Sum of GTIs [s]
caldsver	4.9.3	&#160	ontime0	19951.107731581	Sum of GTIs [s]
date	2020-10-24T18:28:51	Date and time of file creation	ontime1	19950.902531624	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	19950.943571568	Sum of GTIs [s]
			ontime3	19950.98461163	Sum of GTIs [s]
			ontime6	19951.025651574	Sum of GTIs [s]
			ontime7	19951.066691637	Sum of GTIs [s]
			l1events	924841	Number of level 1 events

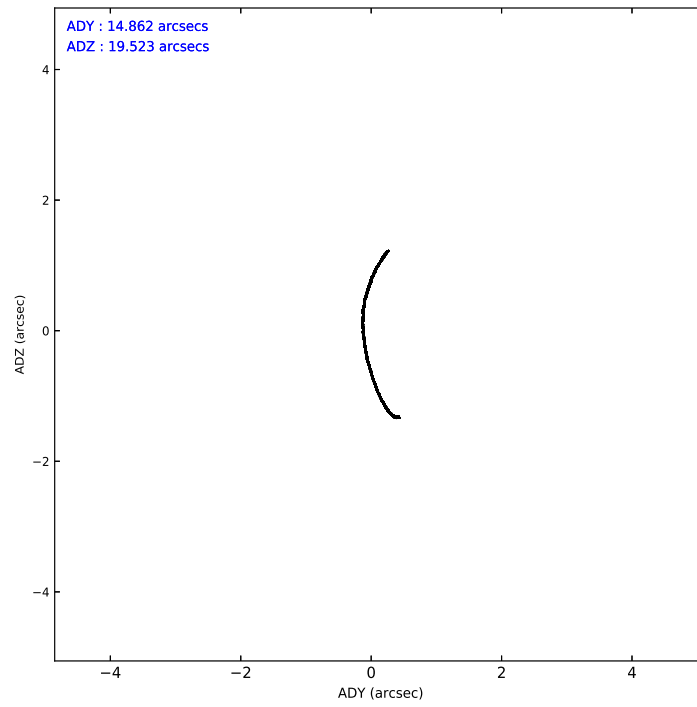
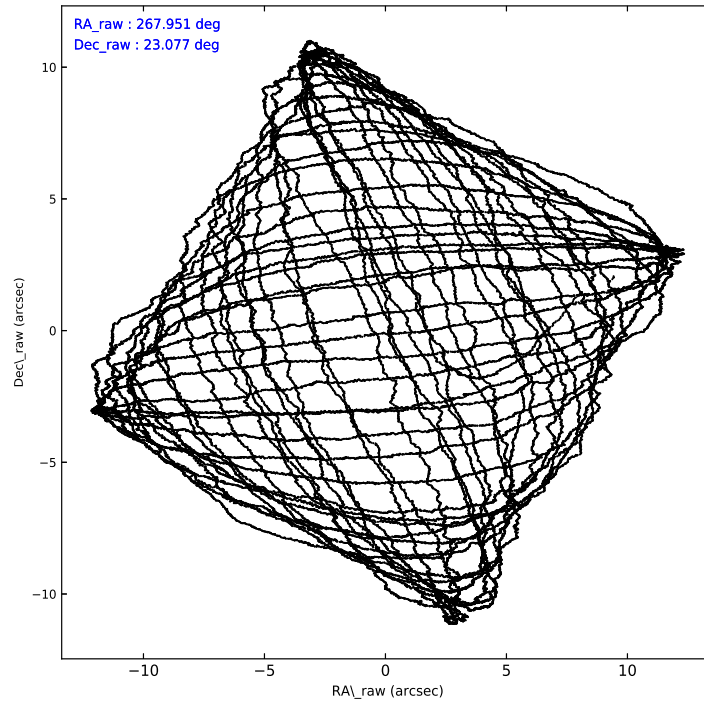
### 2.1.4 Events

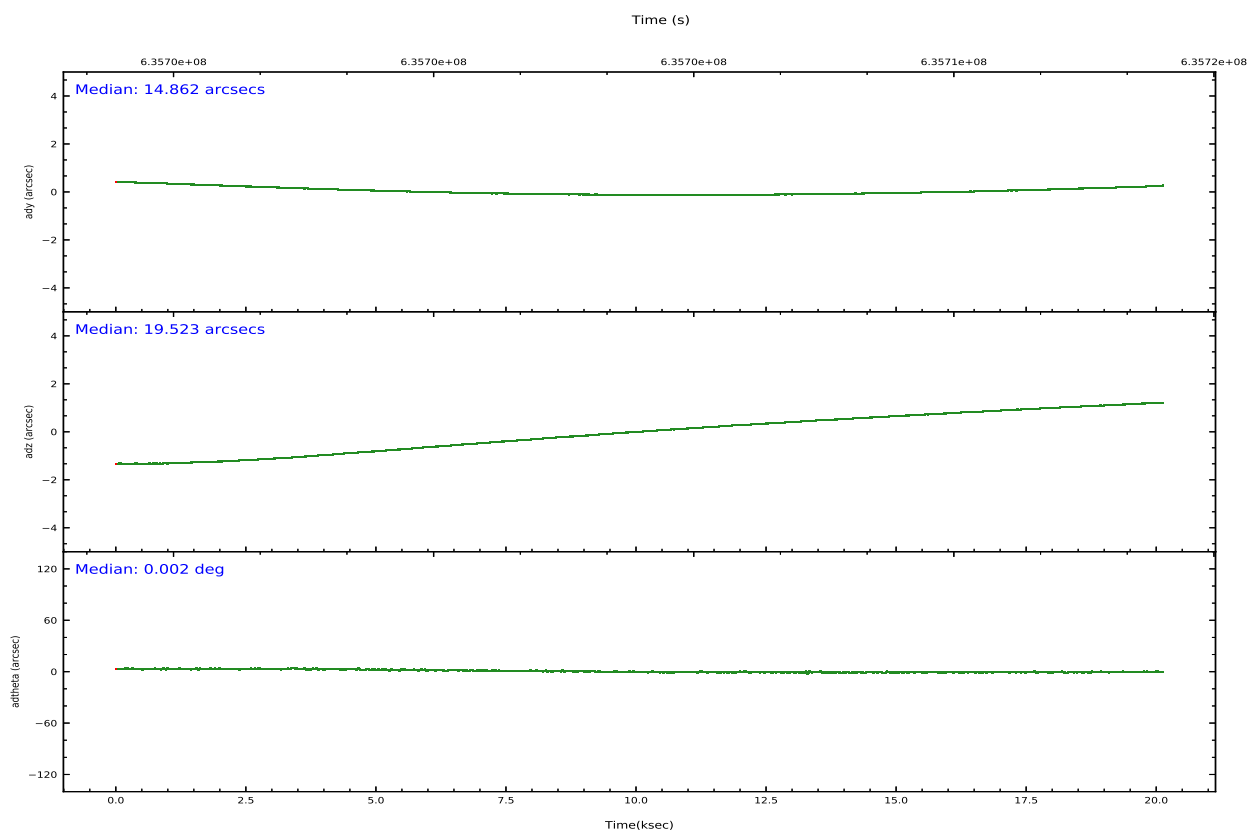
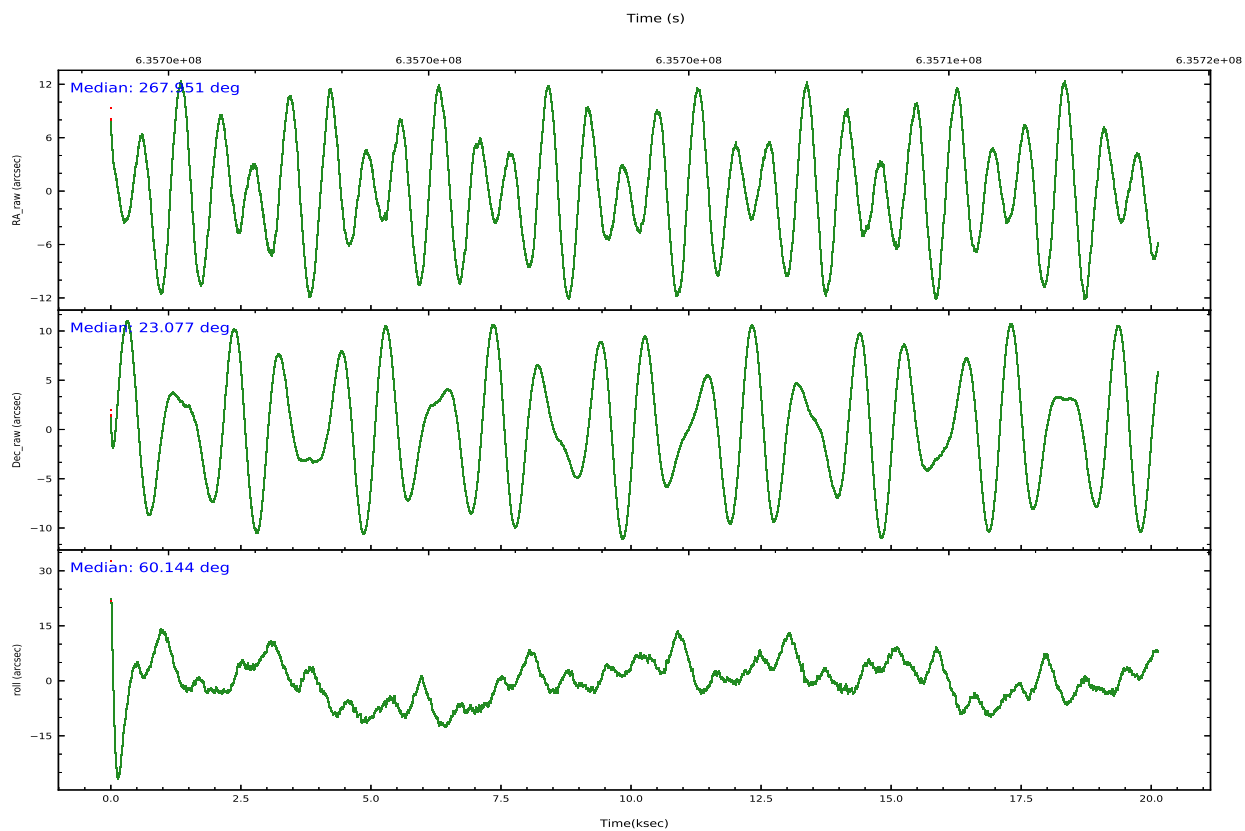
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	137758	137920	157713	142401	154048	195001	grade 0 events	5642	9469	11297	5391	5986	8326
rejected events	121149	116743	136425	126965	136671	107780		4%	6%	7%	3%	3%	4%
rejected %	87%	84%	86%	89%	88%	55%	grade 1 events	100	105	132	69	63	280
								0%	0%	0%	0%	0%	0%
							grade 2 events	4224	4415	3872	3459	4051	18855
								3%	3%	2%	2%	2%	9%
							grade 3 events	1647	1657	1548	1668	1672	7100
								1%	1%	0%	1%	1%	3%
							grade 4 events	1555	1678	1574	1665	1585	7073
								1%	1%	0%	1%	1%	3%
							grade 5 events	6467	6543	5737	6923	6908	19005
								4%	4%	3%	4%	4%	9%
							grade 6 events	3544	3961	3000	3254	4083	45881
								2%	2%	1%	2%	2%	23%
							grade 7 events	114579	110092	130553	119972	129700	88481
								83%	79%	82%	84%	84%	45%

## 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	VFAINT	VFAINT	CCD I0 on	O2	Y
Observation mode	POINTING	POINTING	CCD I1 on	O1	Y
[deg] Pointing RA	267.951780	267.95424895099	CCD I2 on	Y	Y
[deg] Pointing Dec	23.050088	23.070996063216	CCD I3 on	Y	Y
[deg] Pointing Roll	60.000611	60.144278293793	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	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	N	N
[s] Observation start time (MET)	635694023.184000	635692890.00686	CCD S5 on	N	N
Observation start date	2018-02-22T13:39:14	2018-02-22T13:21:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	635714023.184000	635714904.44566	On-chip summing requested	N	N
Observation end date	2018-02-22T19:12:34	2018-02-22T19:28:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



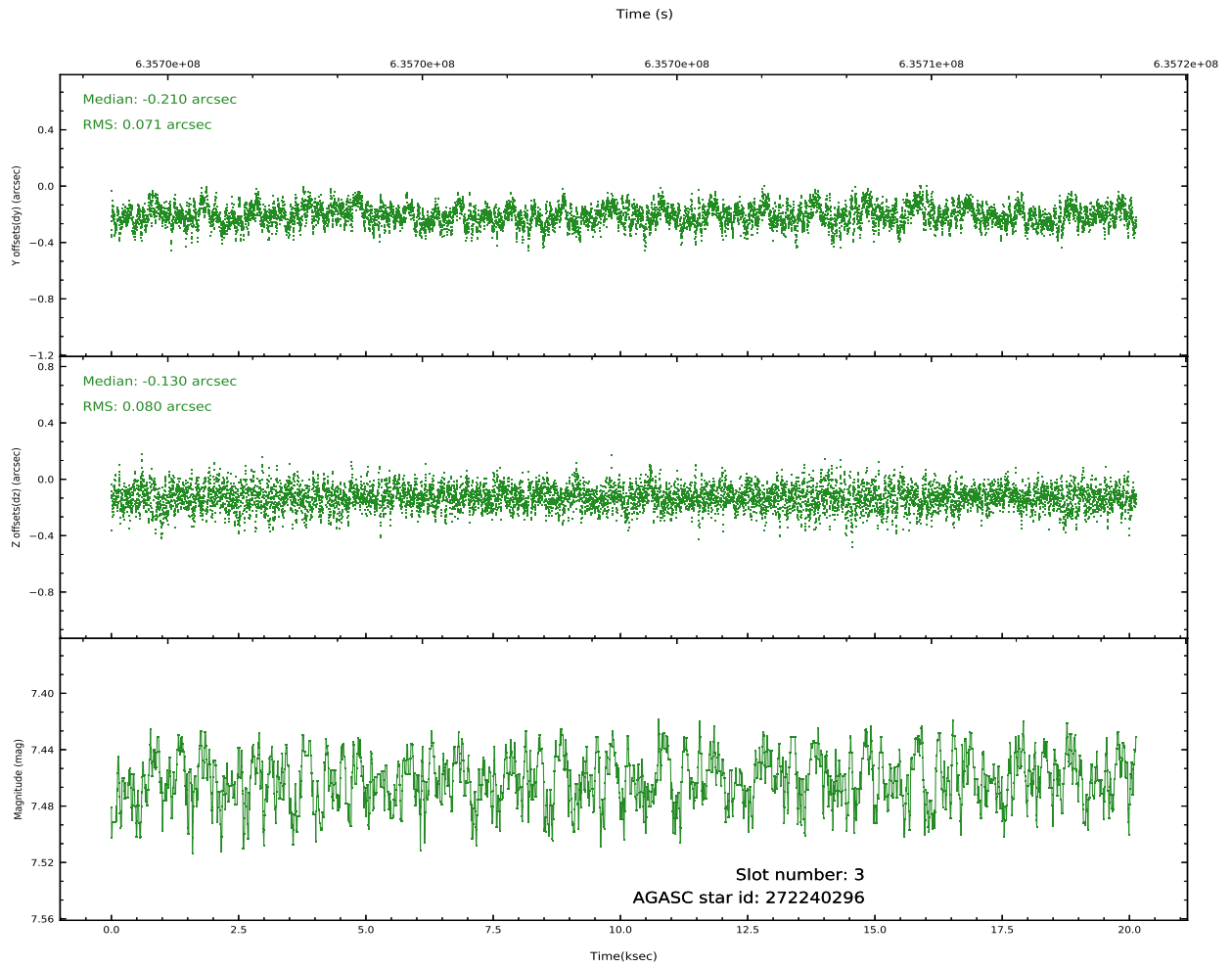
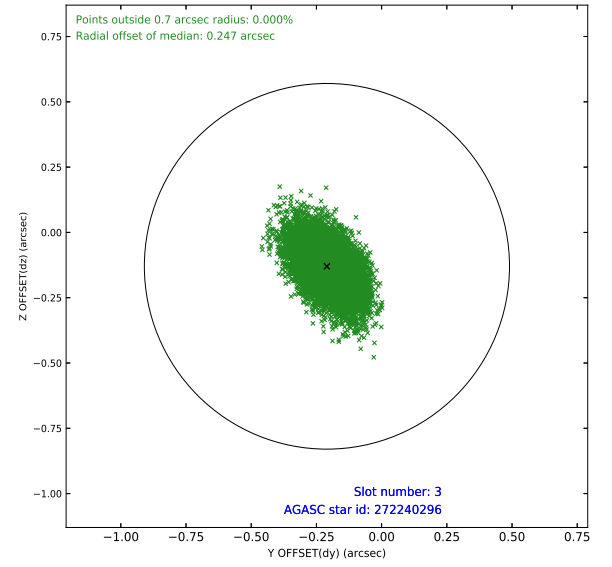
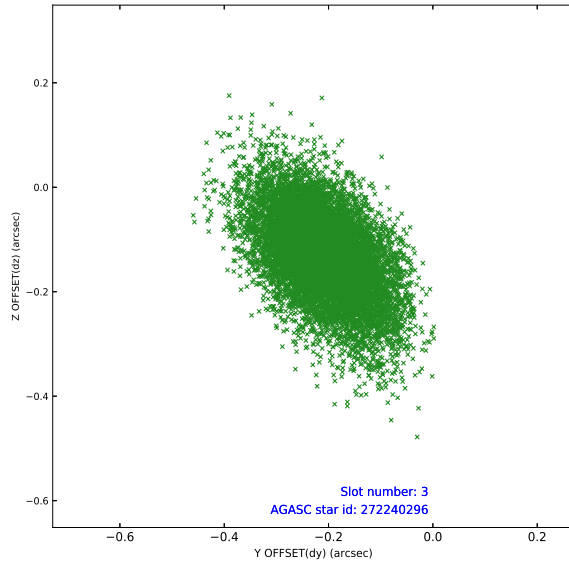


Slot Statistics

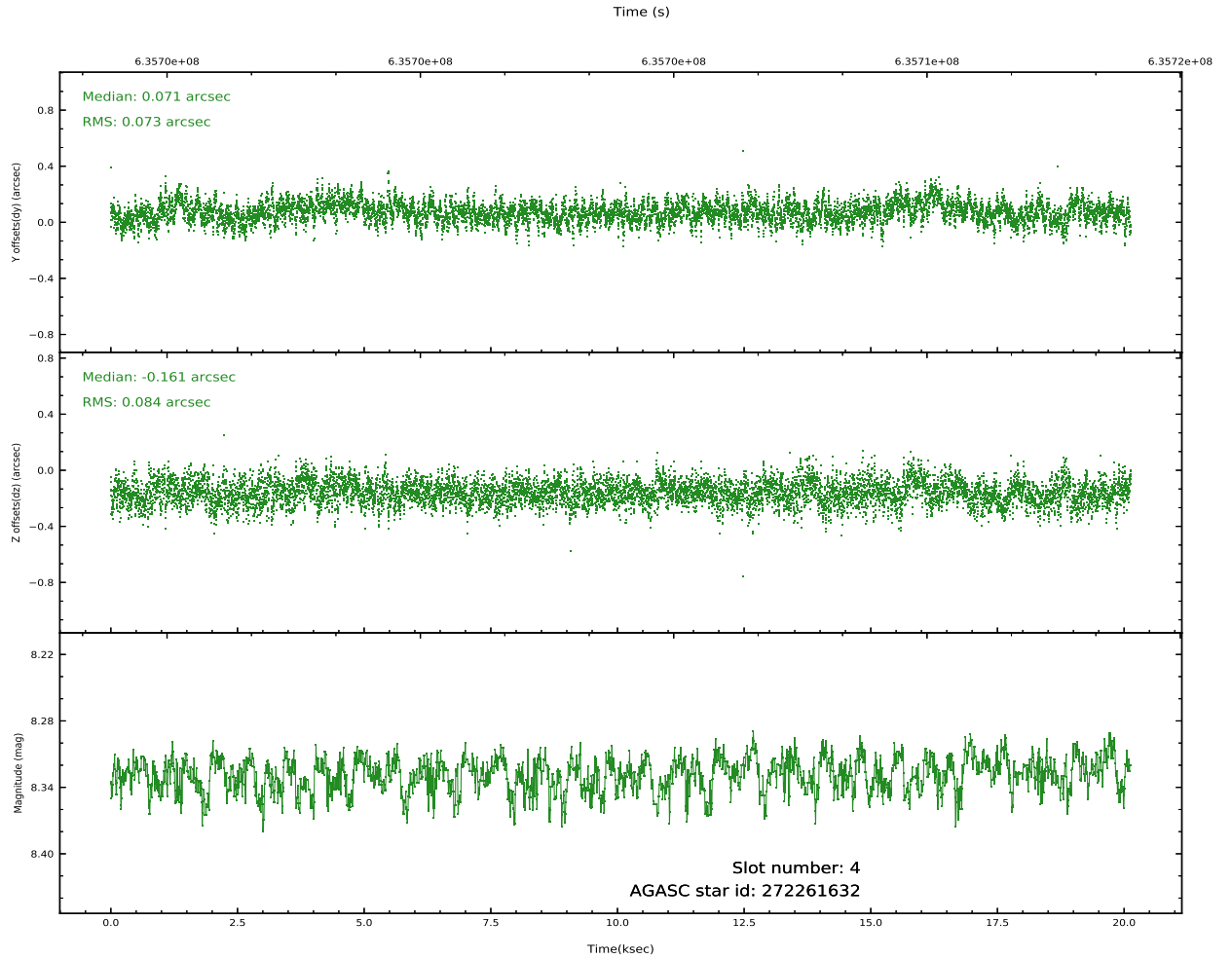
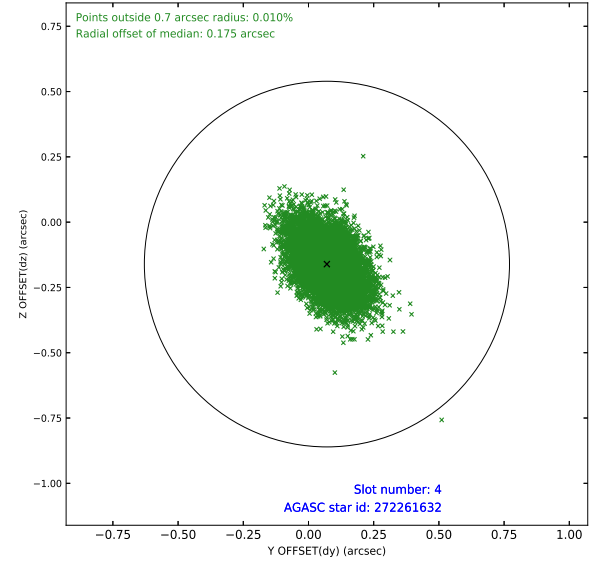
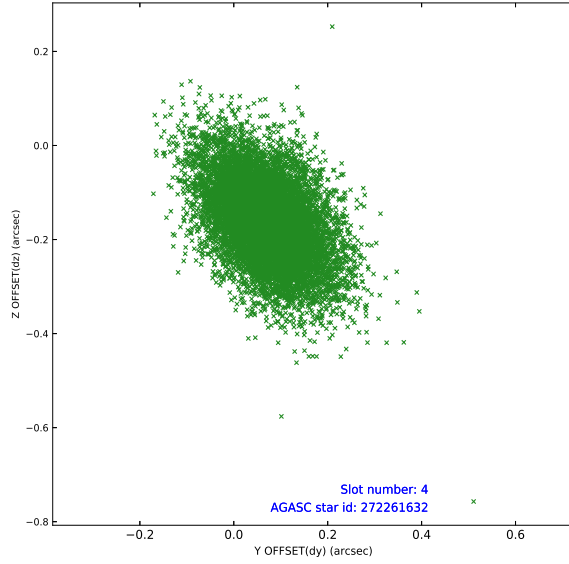
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.02	4910	1.000	0.065	-0.080	0.025	0.038	0.000000	0.000000	-768.00	-1740
1	FID		ACIS-S-4	7.14	4910	1.000	0.166	-0.010	0.007	0.014	0.000000	0.000000	2145.50	167
2	FID		ACIS-S-5	7.12	4911	1.000	-0.268	0.098	0.028	0.036	0.000000	0.000000	-1820.73	161
3	GUIDE	used	272240296	7.46	9821	1.000	-0.210	-0.130	0.111	0.191	267.638660	23.255916	124.50	1267
4	GUIDE	used	272261632	8.33	9810	1.000	0.071	-0.161	0.116	0.201	267.202505	22.973470	-1475.55	2015
5	GUIDE	used	273948672	8.81	9810	1.000	0.055	-0.113	0.209	0.334	268.631849	23.232305	1697.83	-1617
6	GUIDE	used	273969496	8.99	9809	1.000	-0.019	0.063	0.187	0.302	268.396476	22.968275	483.96	-1423
7	GUIDE	used	273976672	8.97	9813	1.000	0.100	0.330	0.131	0.219	267.916715	22.762899	-952.59	-415

## 2.4 Star Slots

### 2.4.1 Slot 3

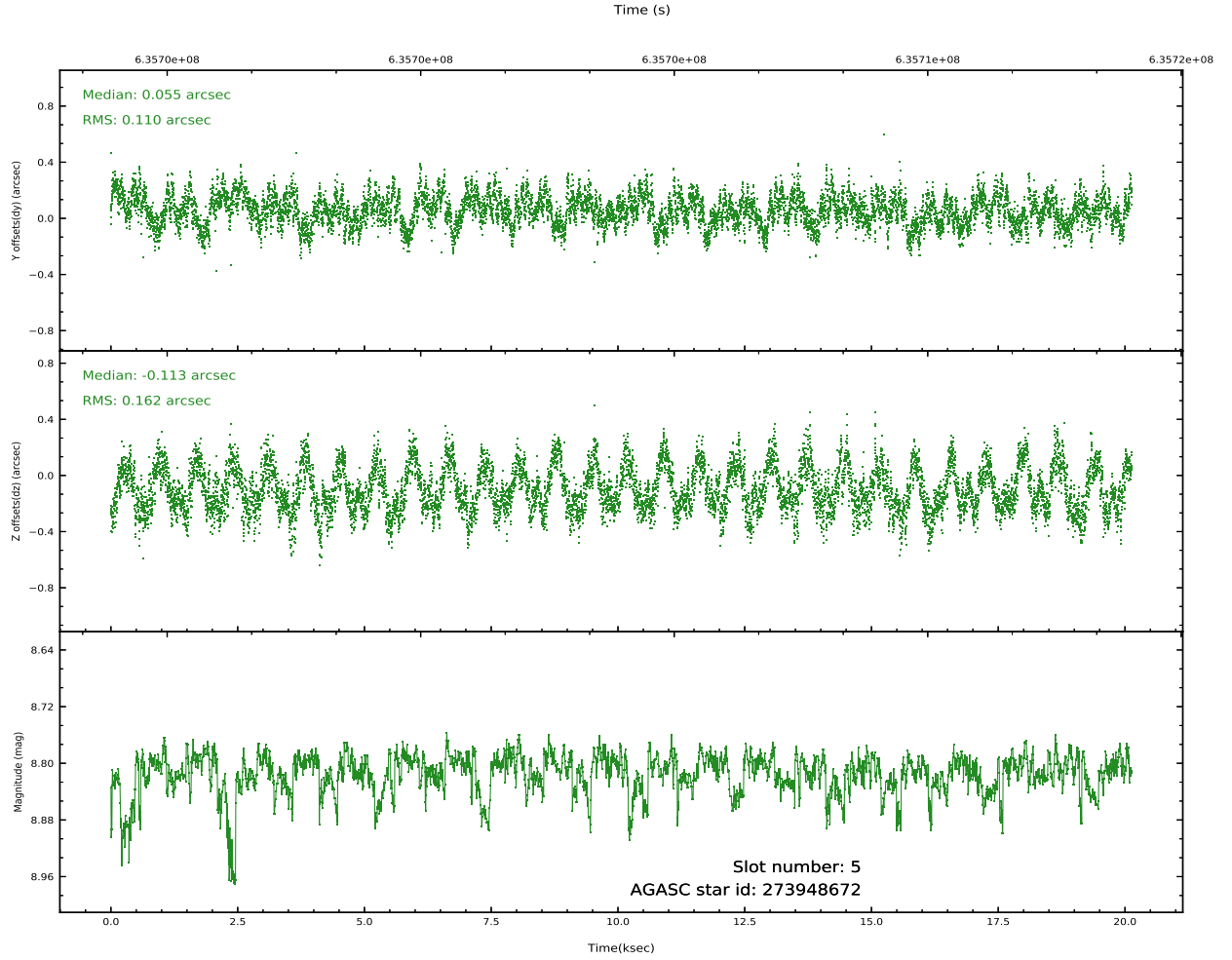
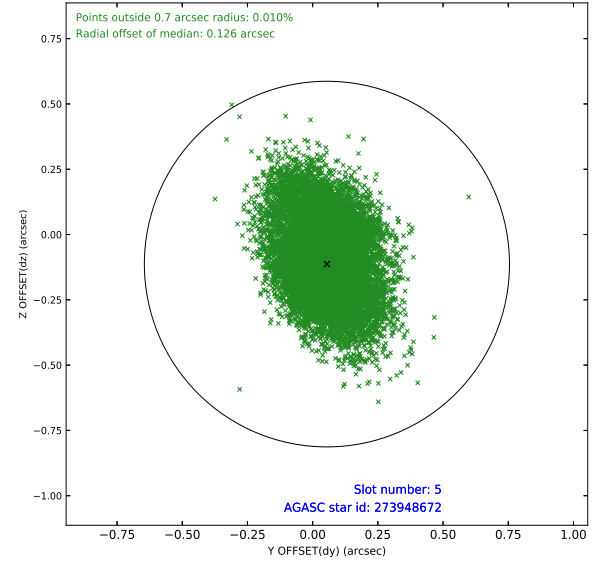
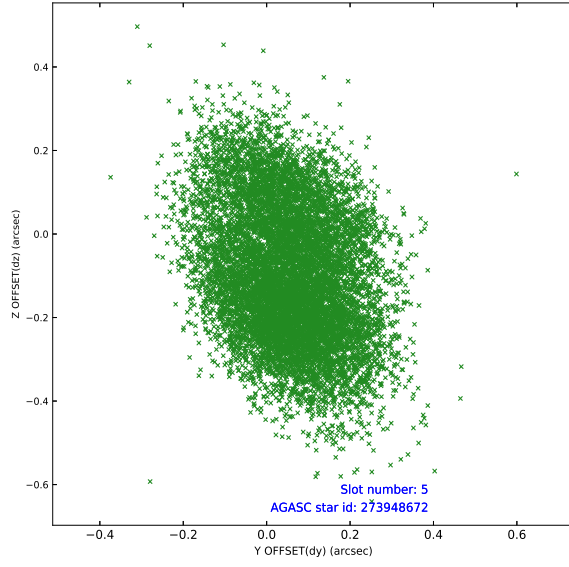


## 2.4.2 Slot 4

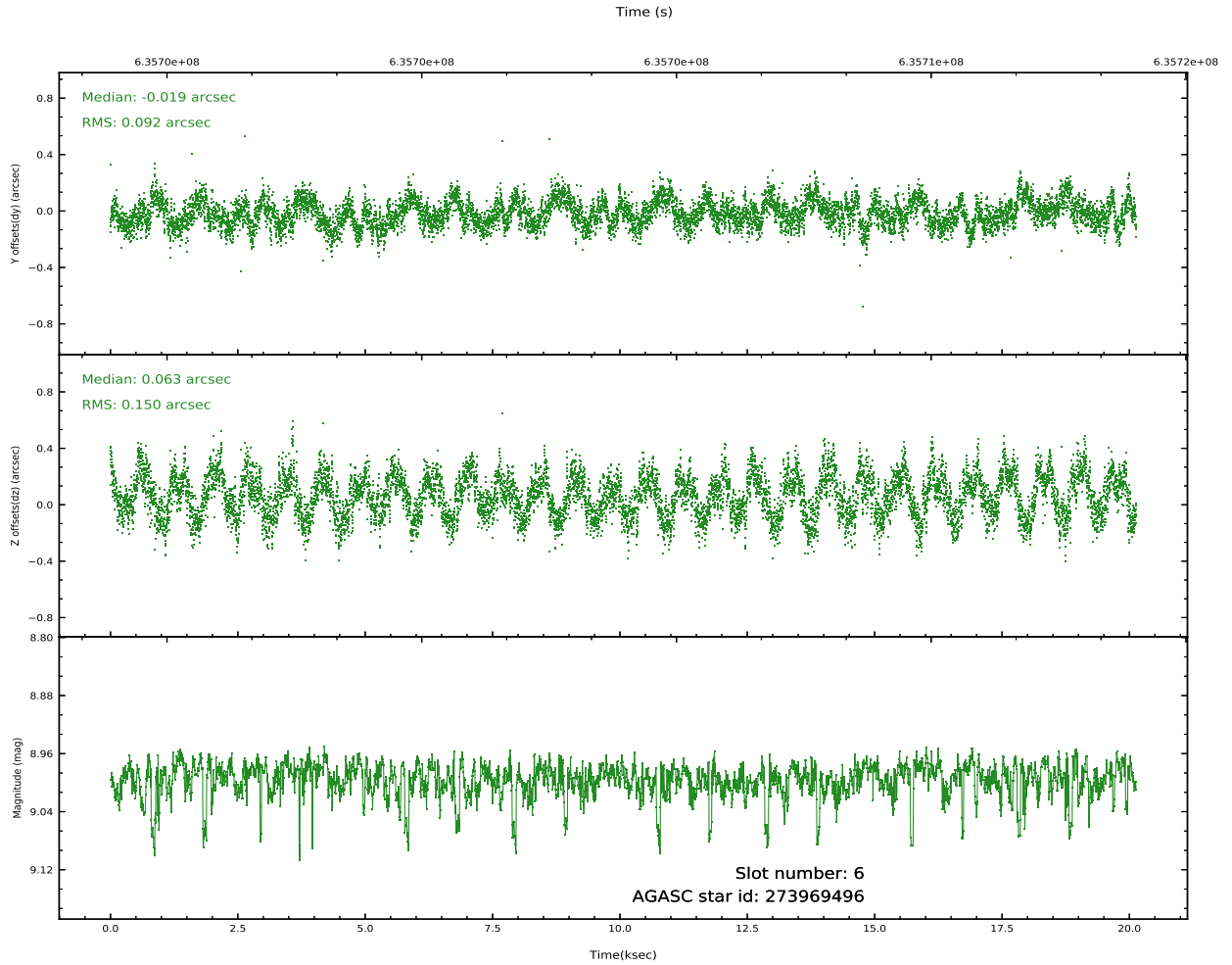
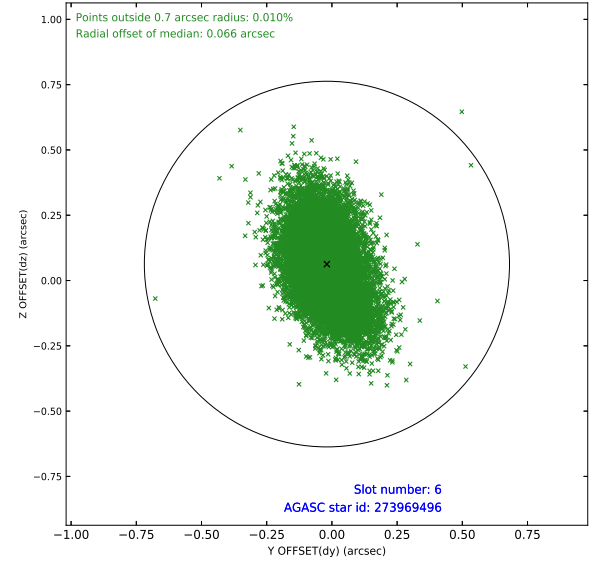
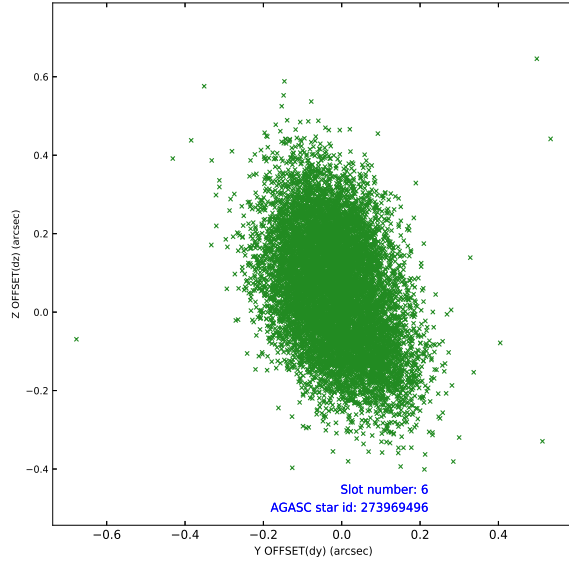




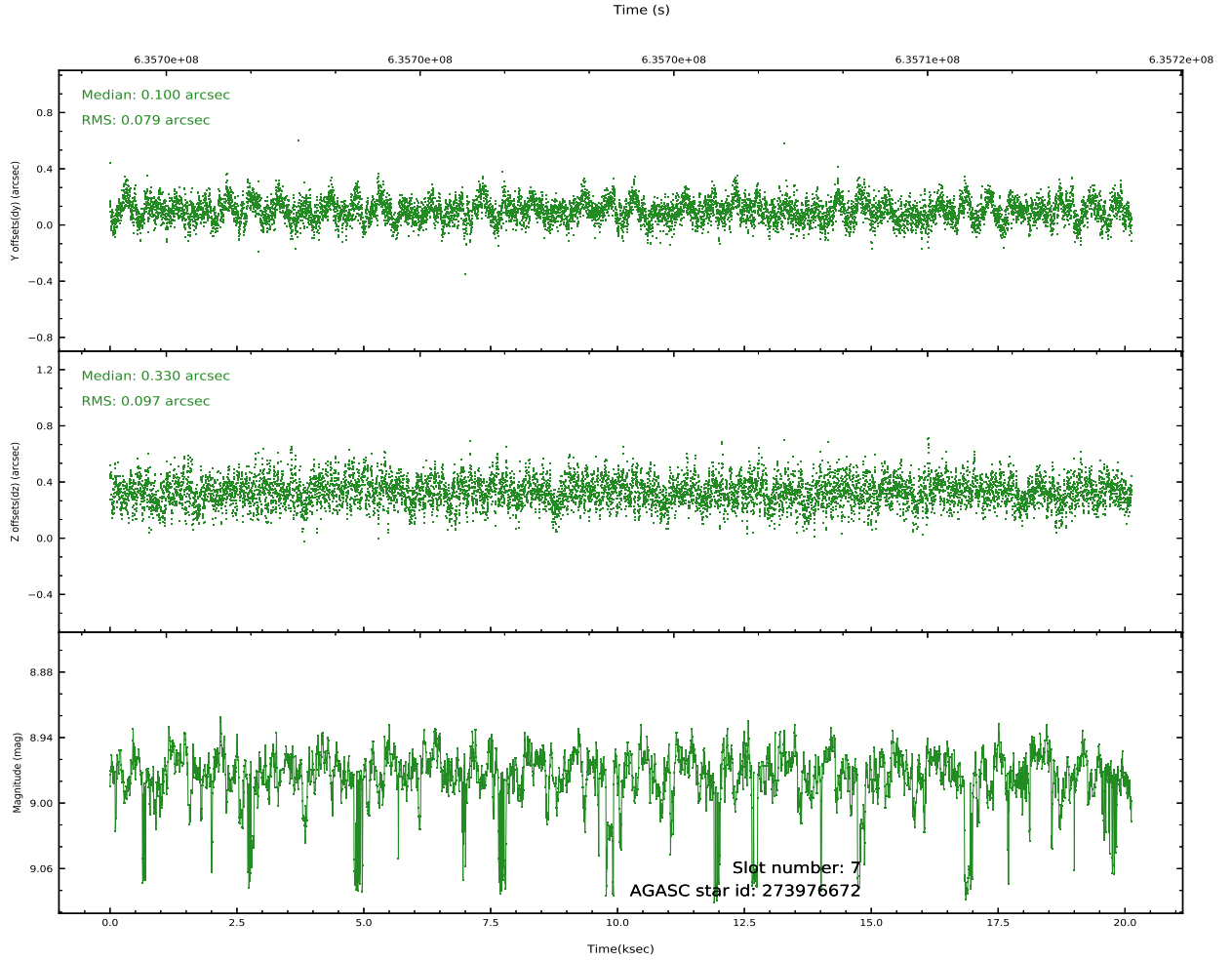
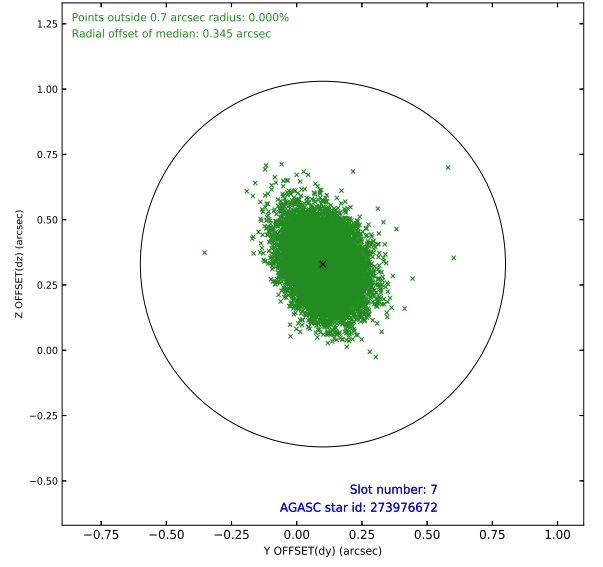
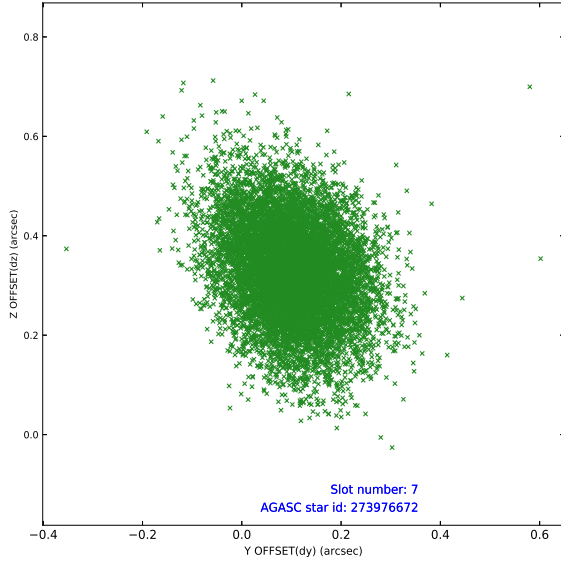
### 2.4.3 Slot 5



## 2.4.4 Slot 6

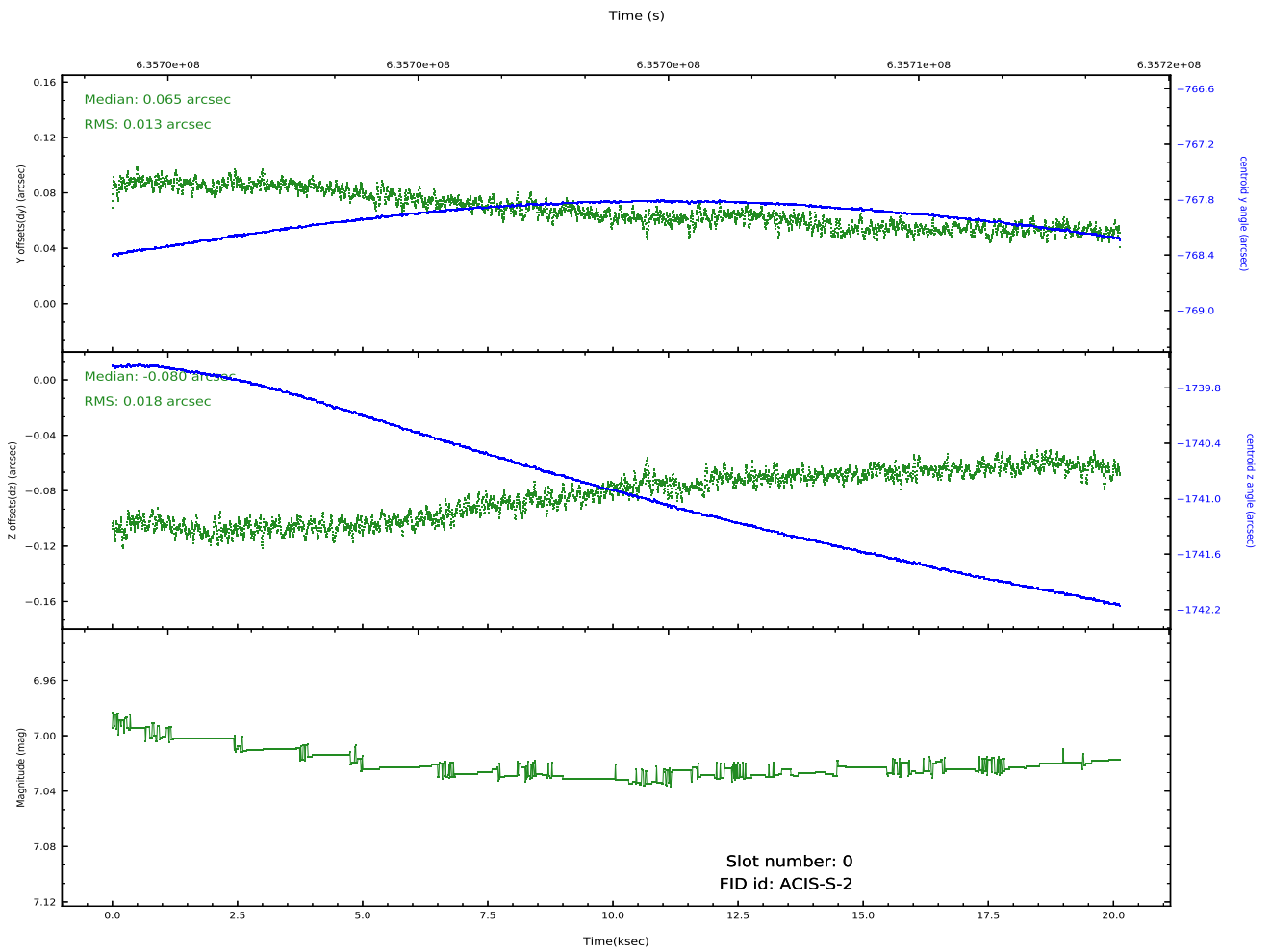
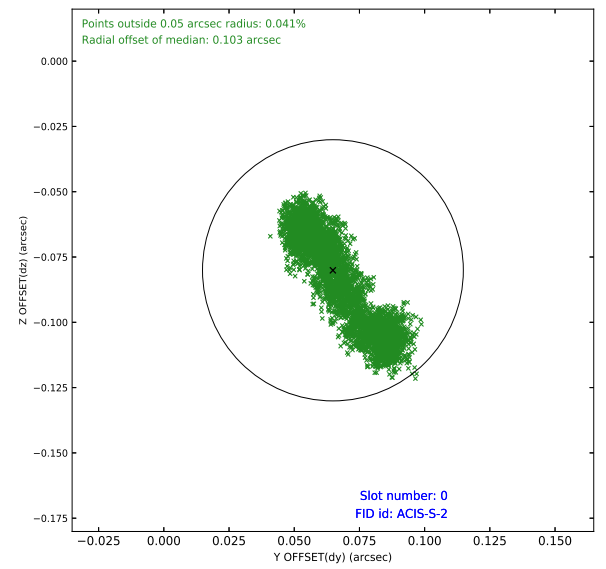
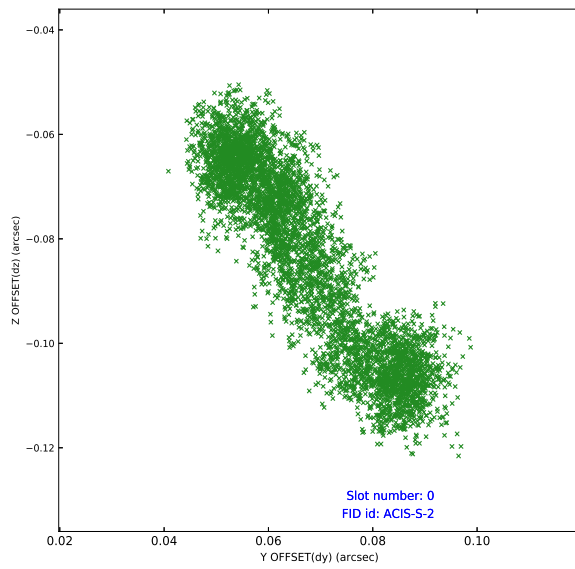


## 2.4.5 Slot 7

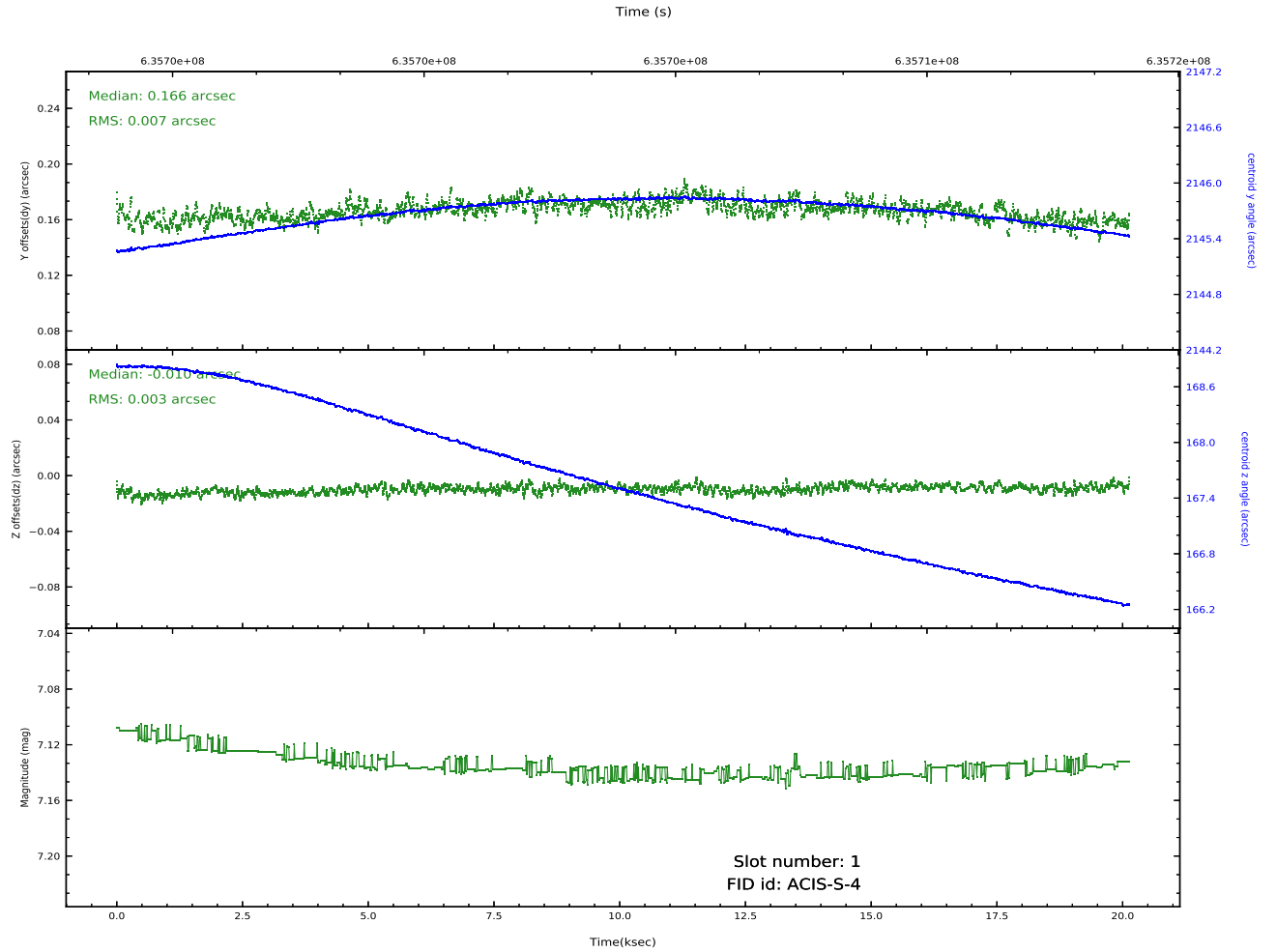
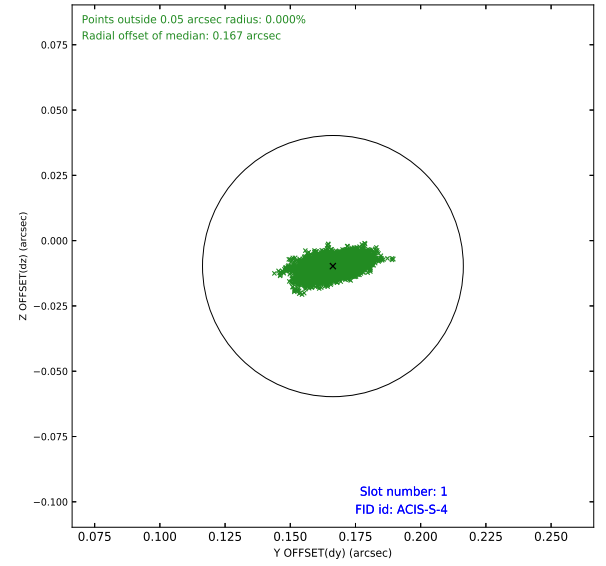
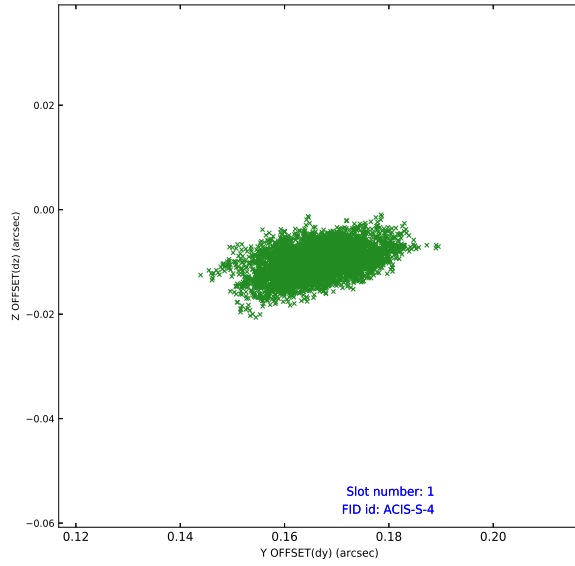


## 2.5 FID Slots

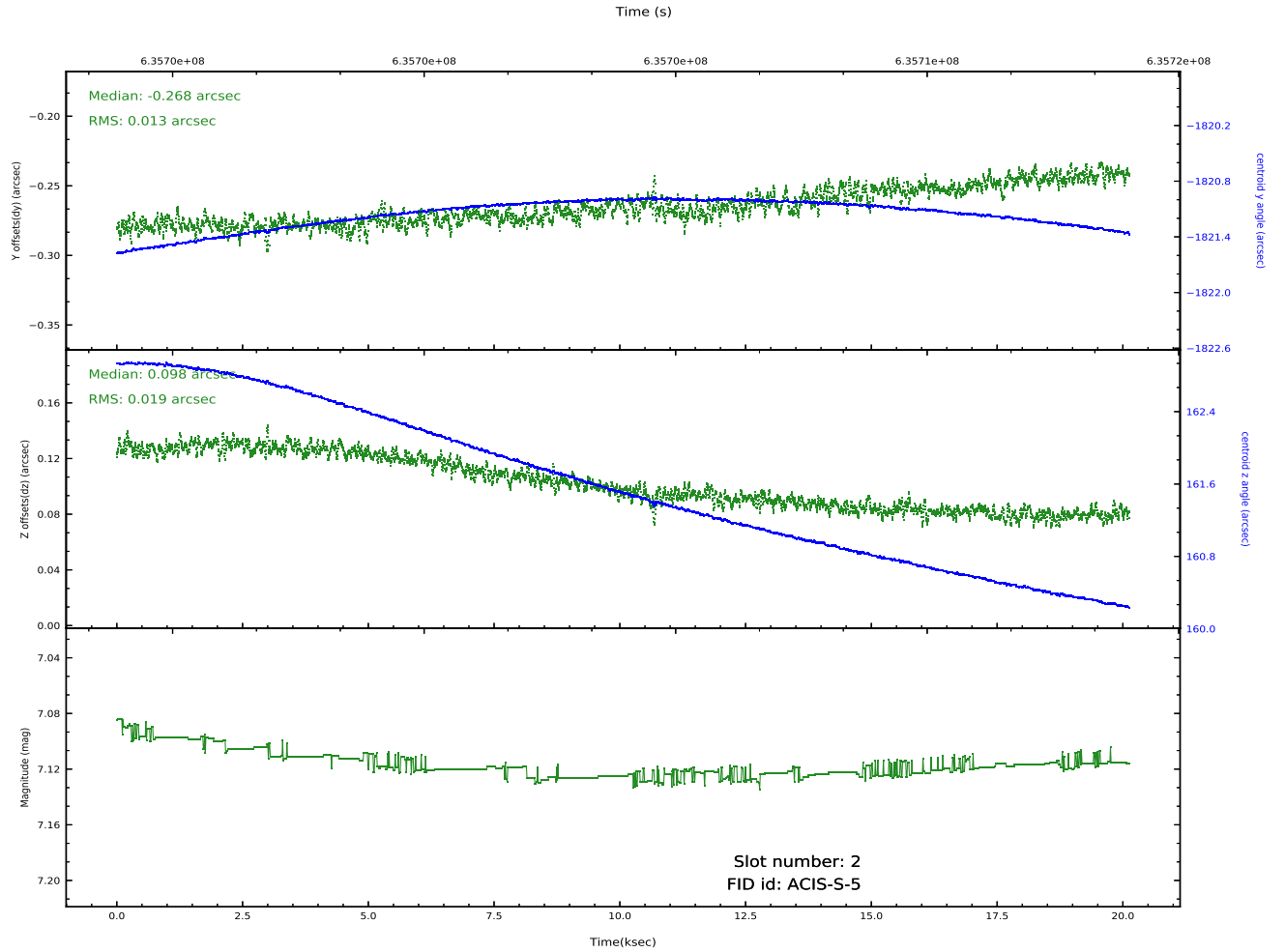
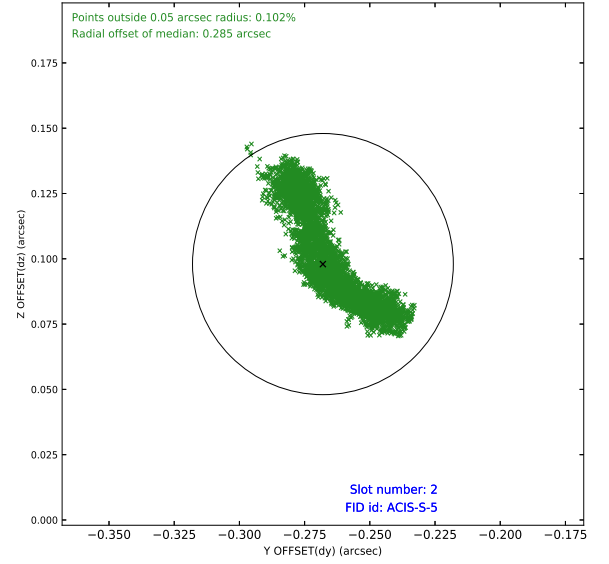
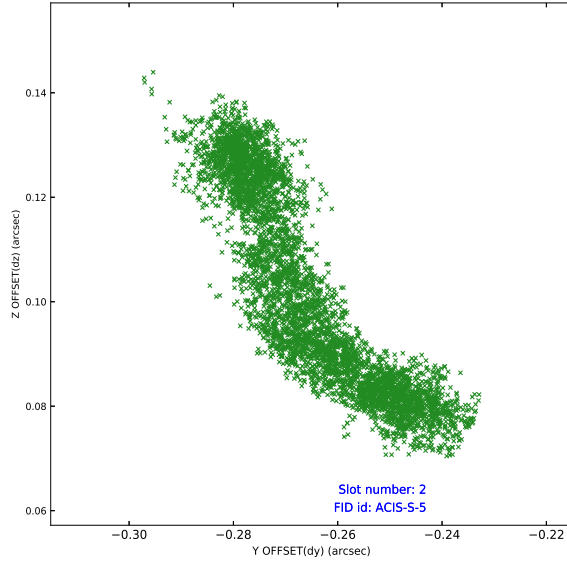
### 2.5.1 Slot 0



## 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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.951066695929

### A.2 Comments