

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20976 - L2 Version 2
Chandra X-Ray Center

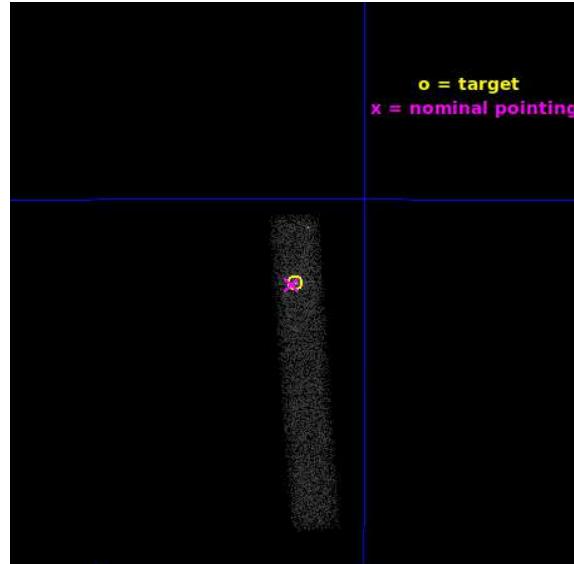
L2 Processing Date : Oct 24 2020

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

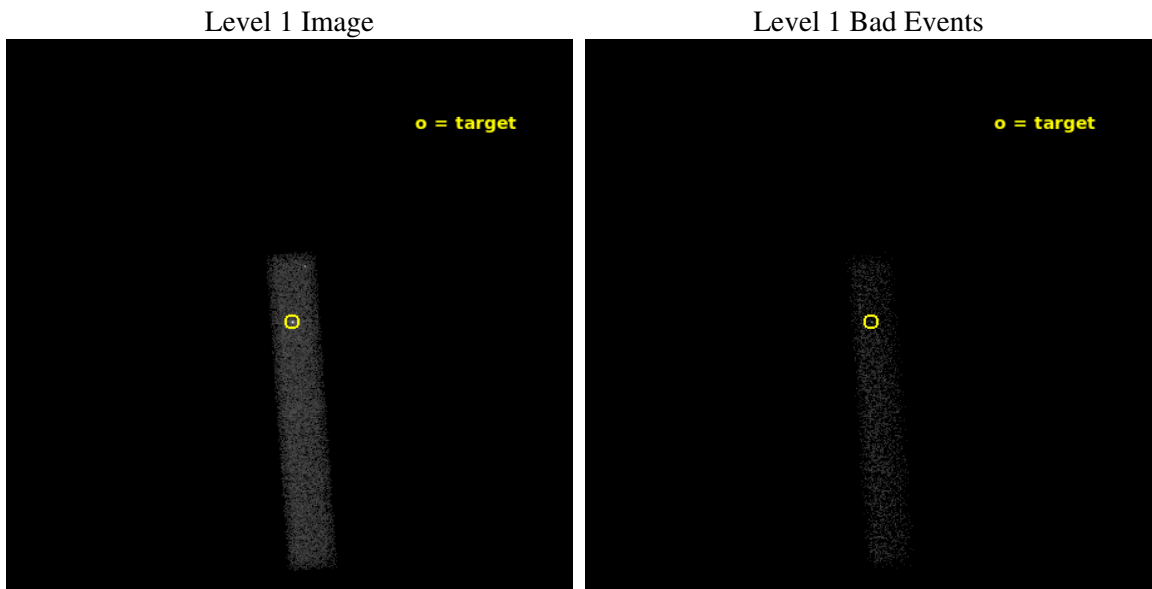
seq_num	502788	Sequence number
obs_id	20976	Observation id
title	PROMPT STUDY OF MAGNETAR OUTBURSTS WITH CHANDRA AND NUSTAR	Proposa
observer	Nanda Rea	Principal investigator
object	CXO J164710.2-455216	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.7925	Observer's specified target RA [deg]
dec_targ	-45.871389	Observer's specified target Dec [deg]
ra_nom	251.79483489324	Nominal RA [deg]
dec_nom	-45.872241742469	Nominal Dec [deg]
roll_nom	86.1422816994	Nominal Roll [deg]
revision	2	Processing version of data
ontime	18068.39892292	Sum of GTIs [s]
livetime	16387.084094794	Livetime [s]
ontime7	18068.39892292	Sum of GTIs [s]
l2events	17396	Number of level 2 events



2 OBI

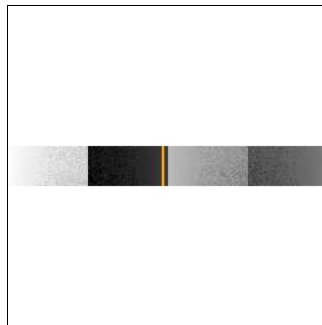
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	18068.39892292	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	18068.39892292	Sum of GTIs [s]
date	2020-10-24T18:56:39	Date and time of file creation	l1events	29864	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

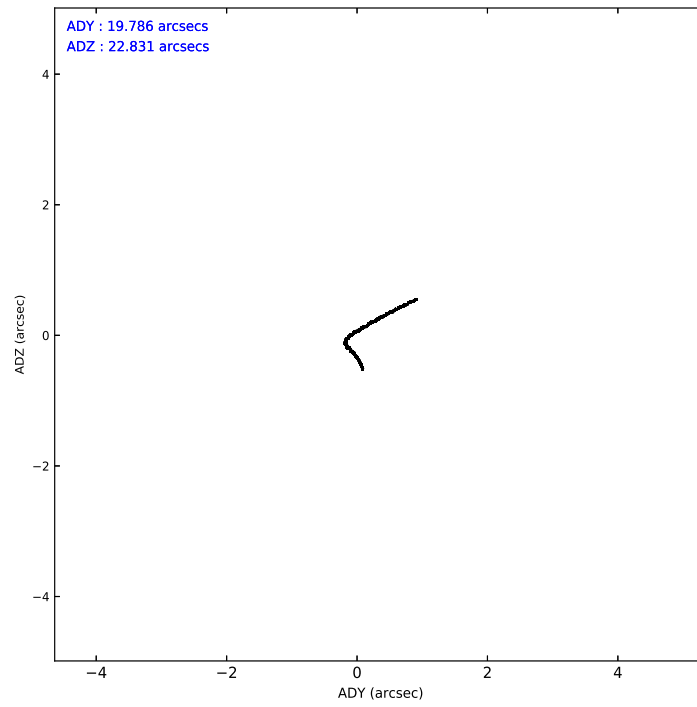
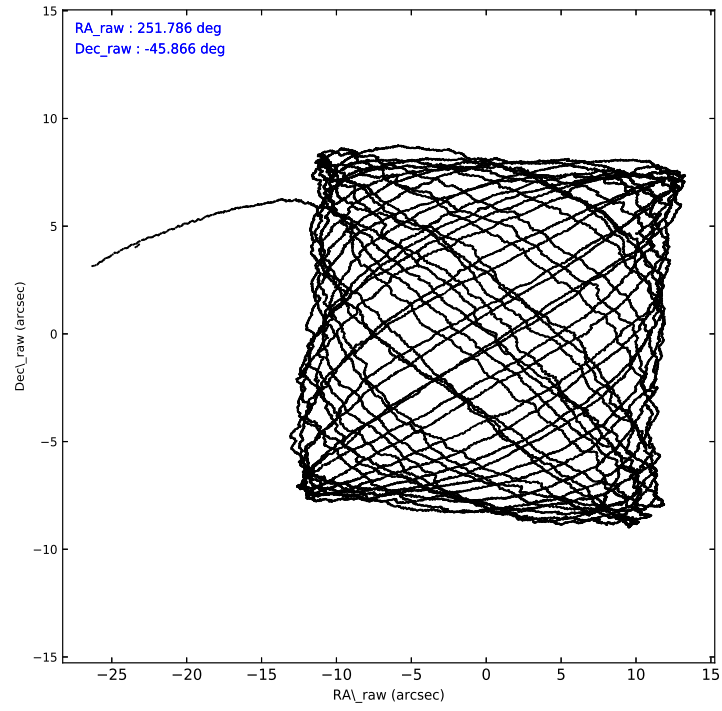
	ccd 7
level 1 events	29864
rejected events	11954
rejected %	40%

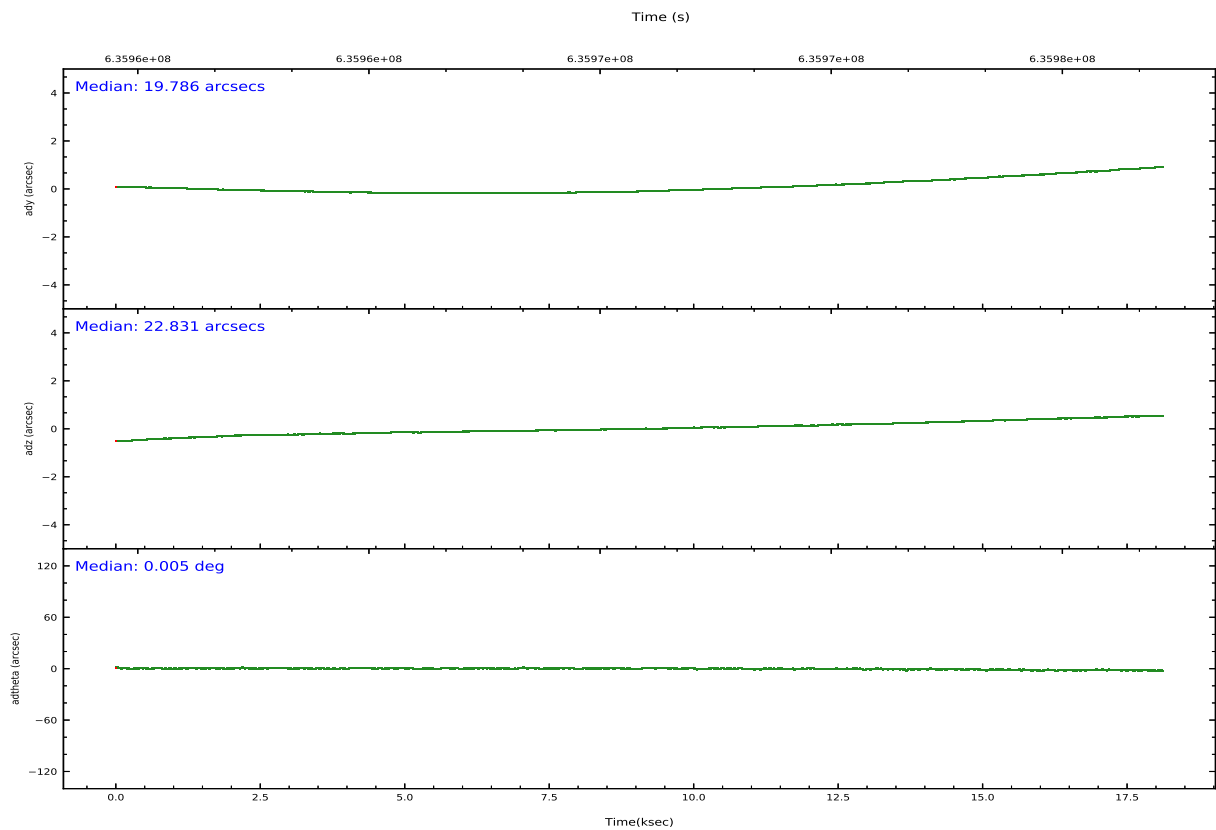
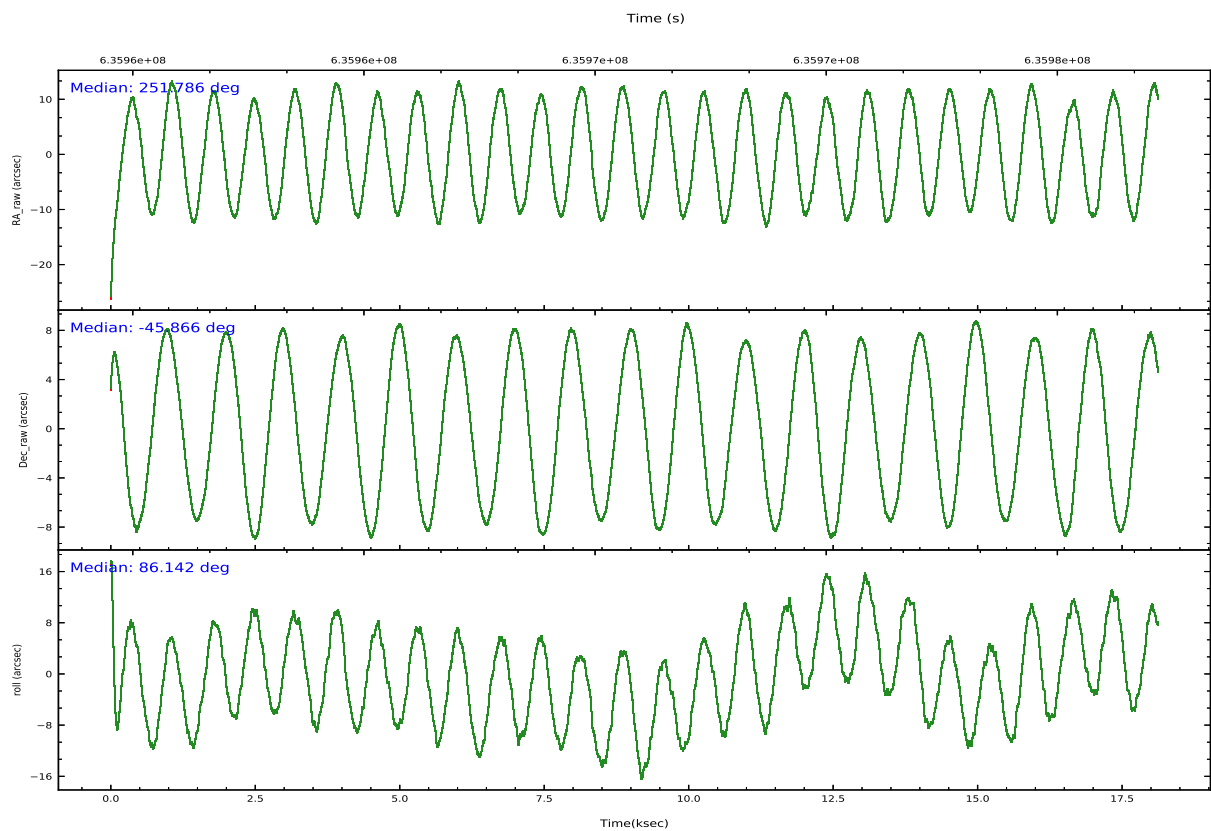
	ccd 7
grade 0 events	2459
	8%
grade 1 events	48
	0%
grade 2 events	3998
	13%
grade 3 events	2123
	7%
grade 4 events	2162
	7%
grade 5 events	2400
	8%
grade 6 events	7169
	24%
grade 7 events	9505
	31%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	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	251.803795	251.79483489324	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-45.890593	-45.872241742469	Subarray start row	449	449
[deg] Pointing Roll	86.008111	86.1422816994	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	635959745.184000	635958554.13502			
Observation start date	2018-02-25T15:27:56	2018-02-25T15:09:14			
[s] Observation end time (MET)	635977745.184000	635978771.23621			
Observation end date	2018-02-25T20:27:56	2018-02-25T20:46:11			
Read mode	TIMED	TIMED			

2.3 Aspect



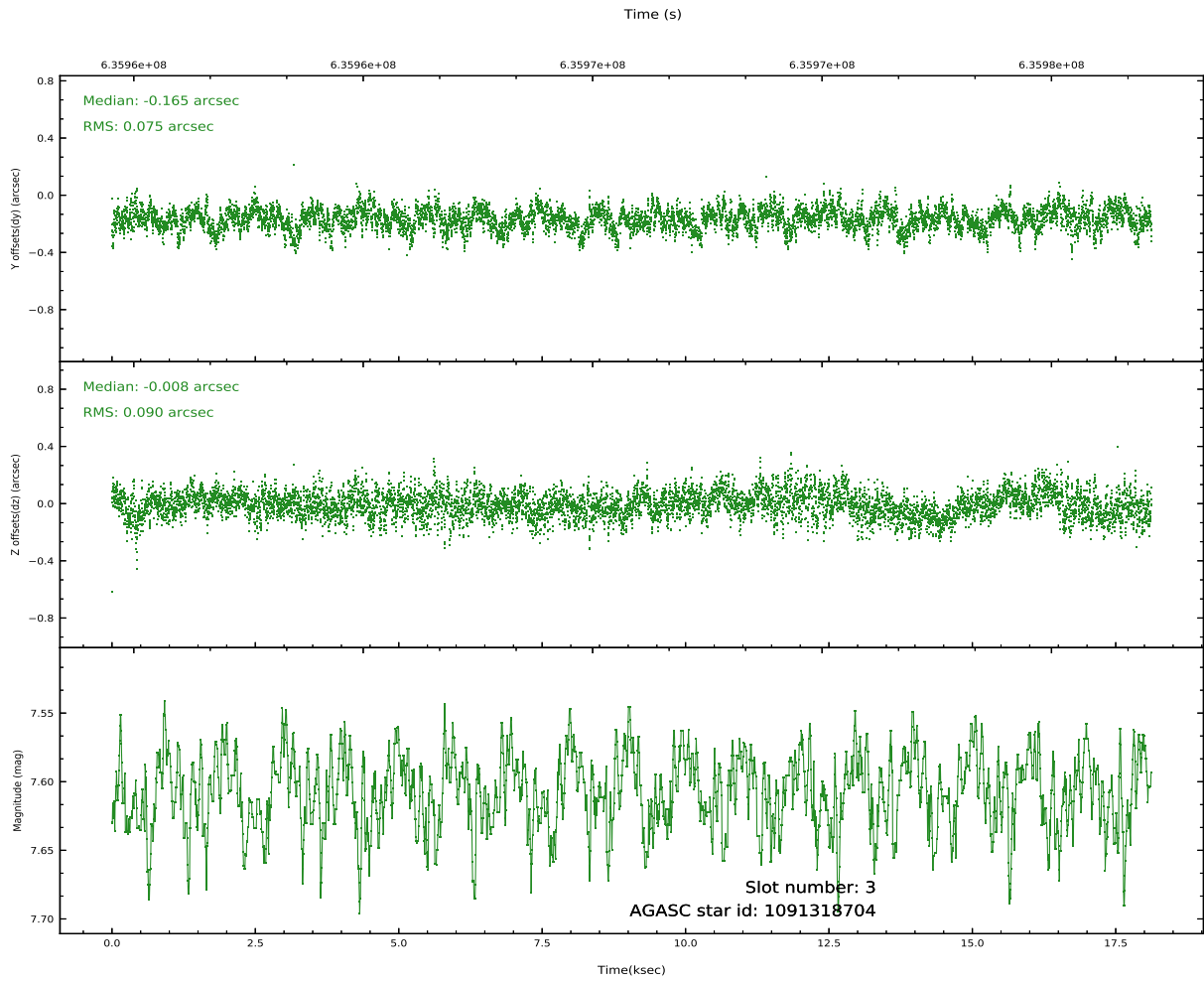
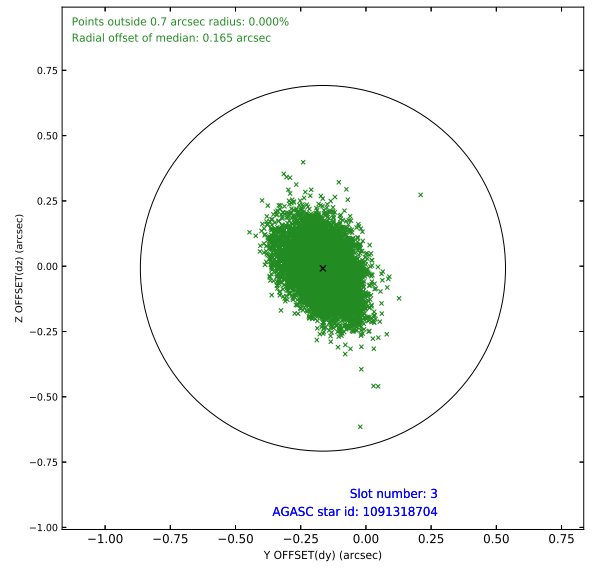
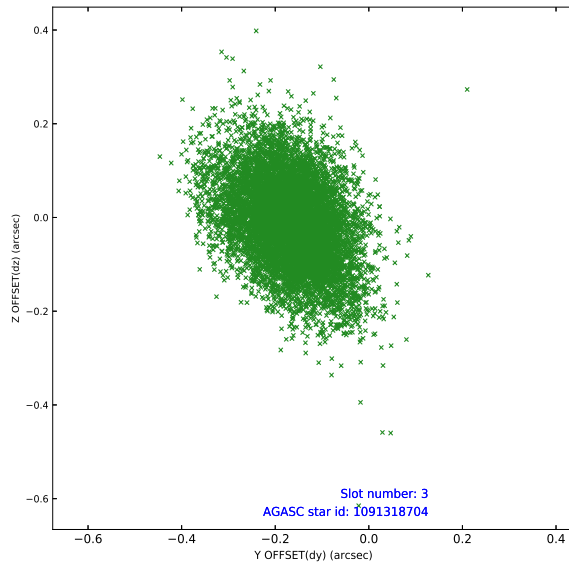


Slot Statistics

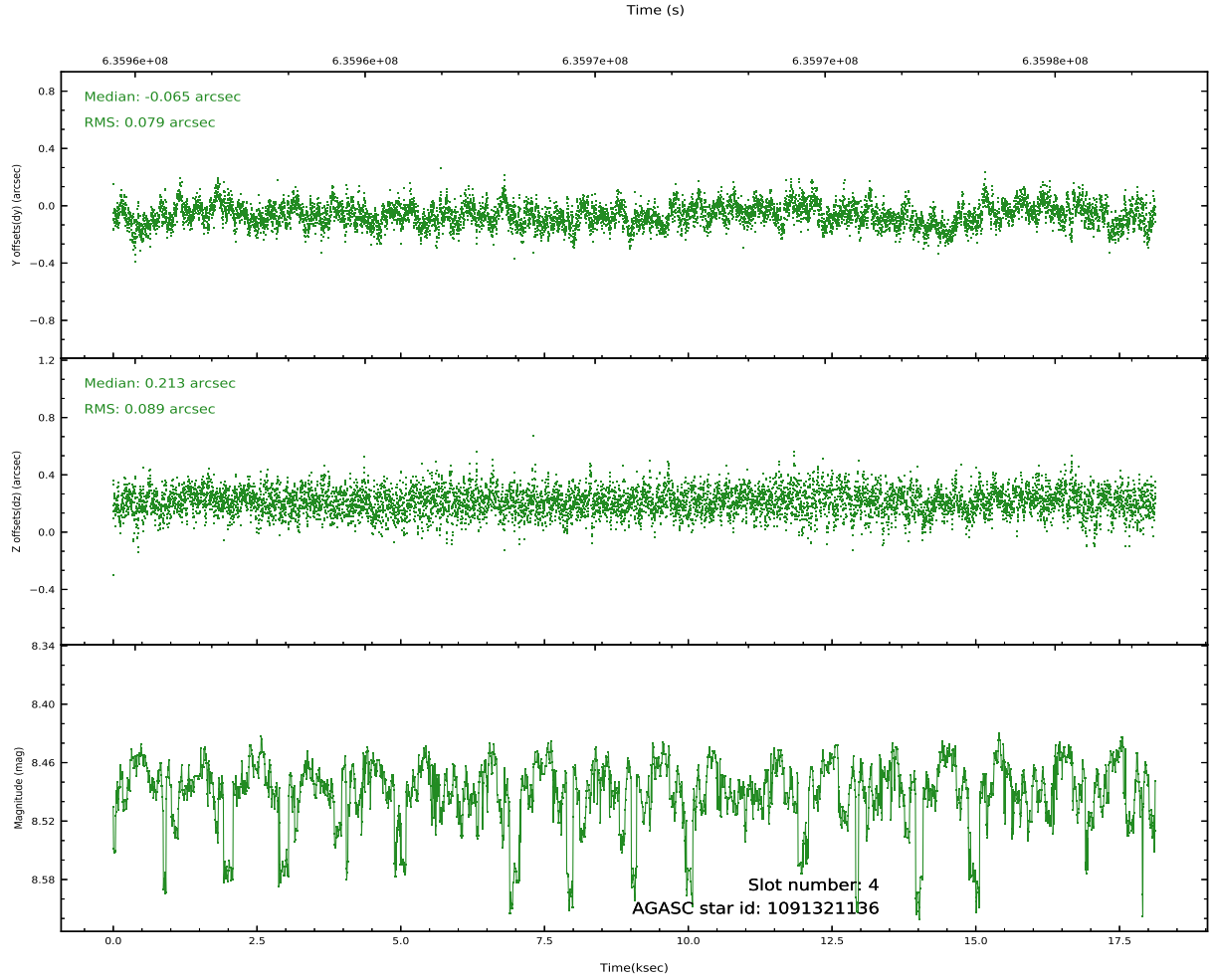
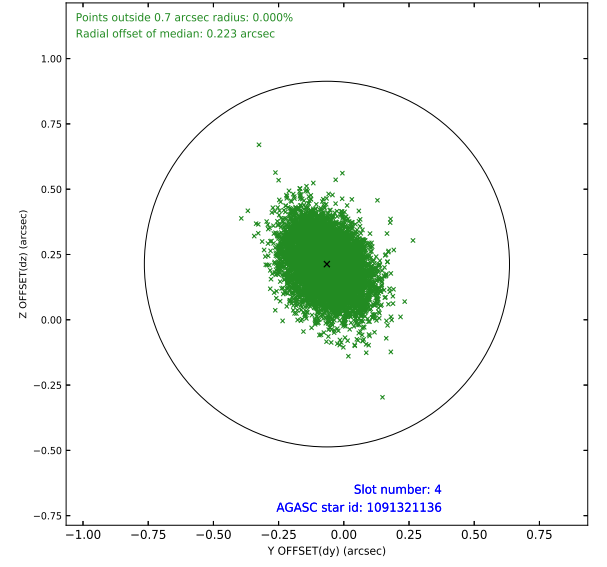
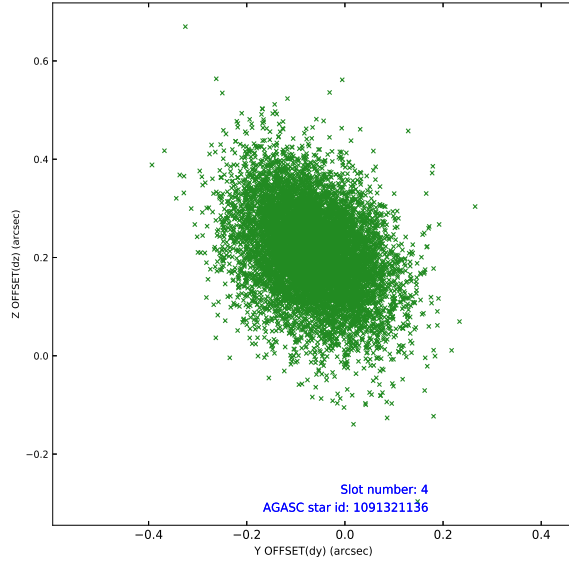
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.04	4421	1.000	0.120	-0.131	0.011	0.021	0.000000	0.000000	-773.16	-1744
1	FID		ACIS-S-4	7.16	4420	1.000	0.089	-0.023	0.009	0.017	0.000000	0.000000	2140.28	163
2	FID		ACIS-S-5	7.15	4421	1.000	-0.241	0.162	0.011	0.020	0.000000	0.000000	-1825.78	158
3	GUIDE	used	1091318704	7.61	8840	1.000	-0.165	-0.008	0.122	0.208	251.955714	-45.390313	1822.97	-257
4	GUIDE	used	1091321136	8.49	8838	1.000	-0.065	0.213	0.124	0.210	252.629031	-45.865288	224.78	-2057
5	GUIDE	used	1091321752	6.93	8842	1.000	0.005	-0.078	0.112	0.197	251.516776	-46.486101	-2189.34	560
6	GUIDE	used	1091341680	8.42	8839	1.000	0.148	-0.051	0.126	0.221	251.240217	-46.114317	-907.02	1346
7	GUIDE	used	1091343368	6.89	8841	1.000	0.076	-0.075	0.121	0.198	251.526552	-46.531998	-2353.02	524

2.4 Star Slots

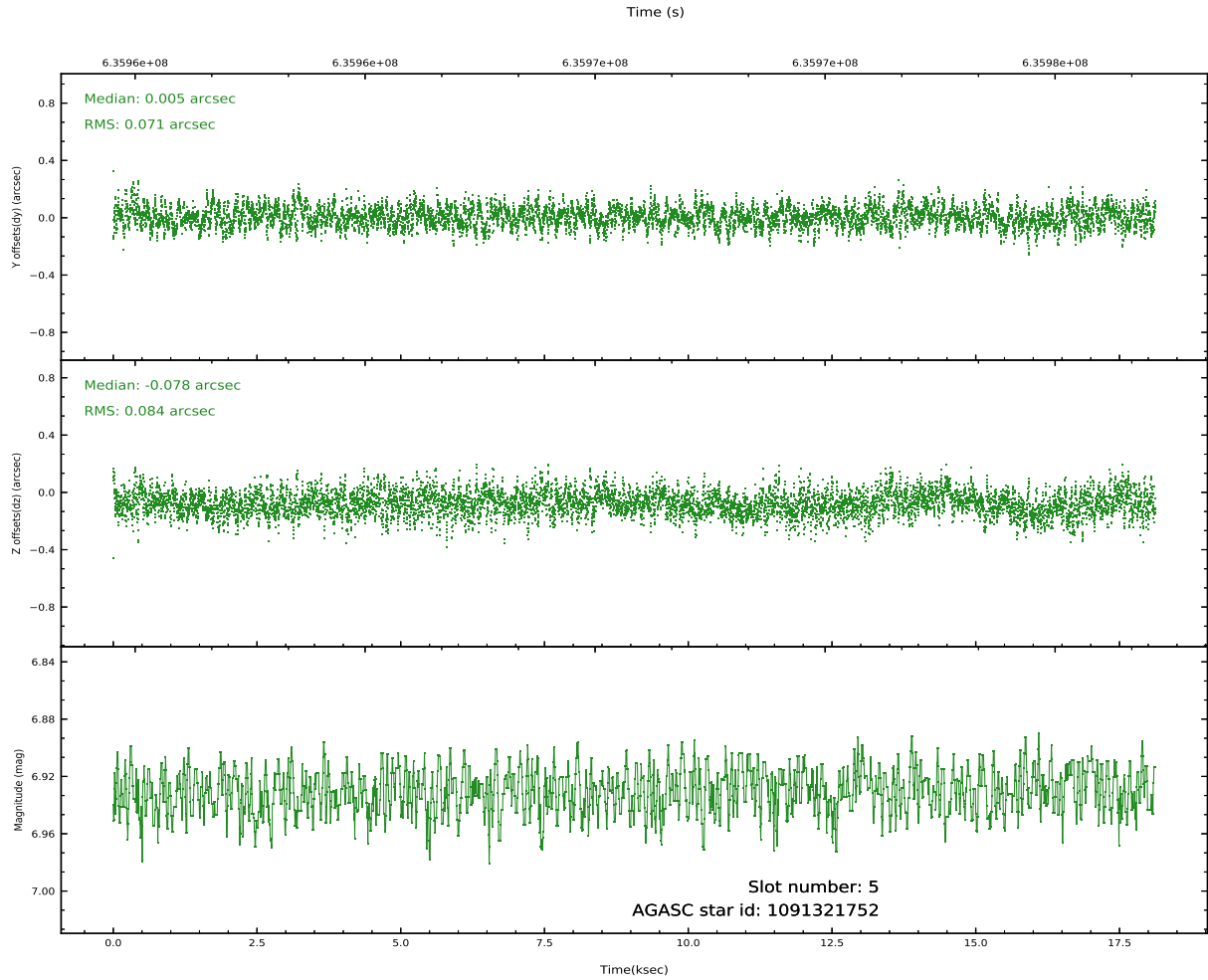
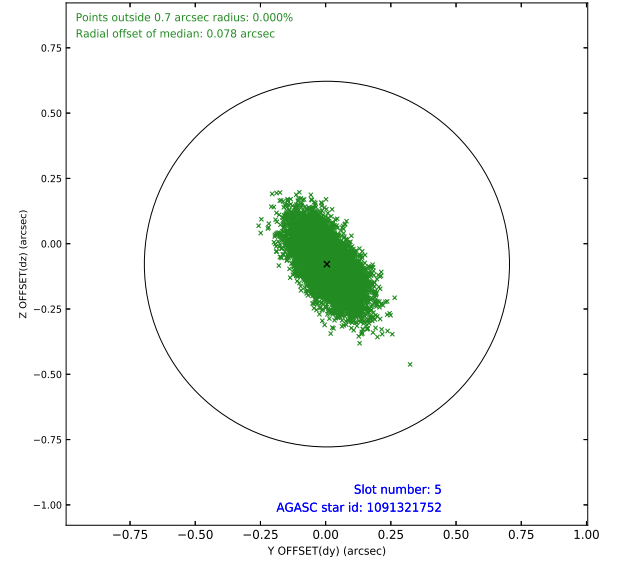
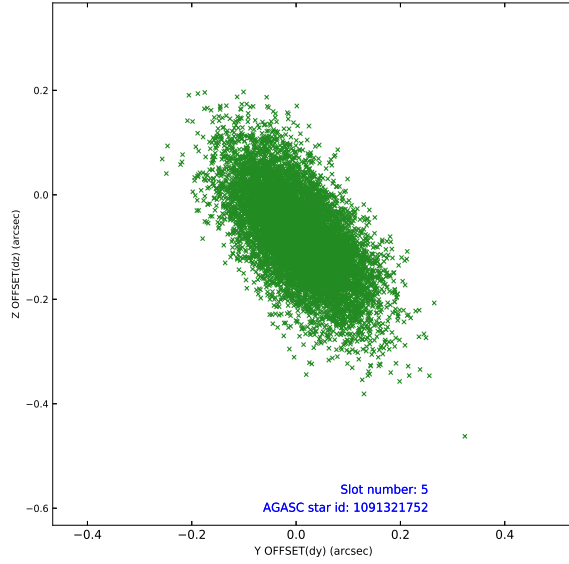
2.4.1 Slot 3



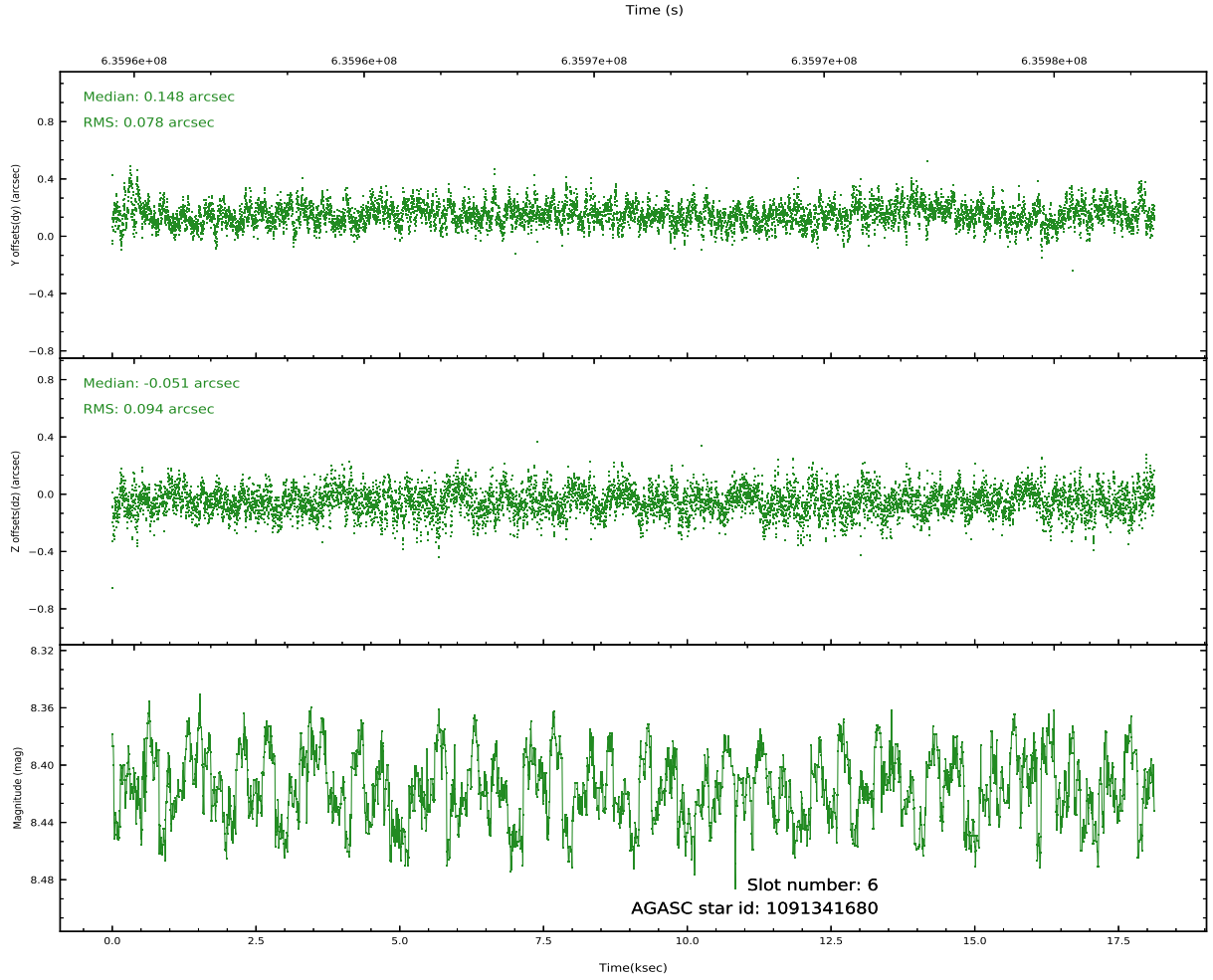
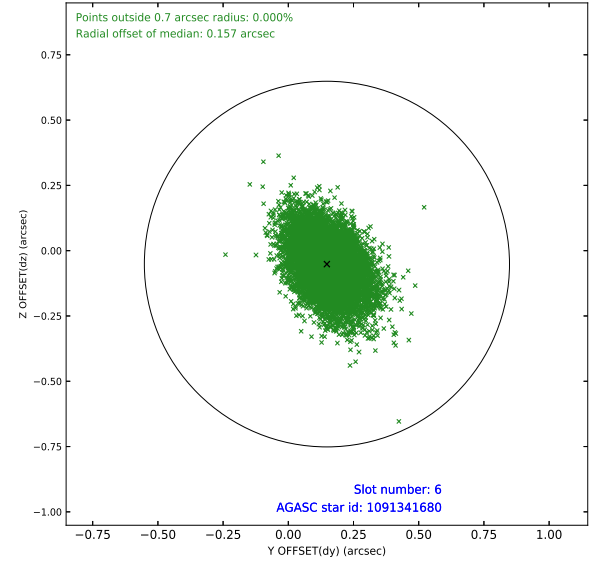
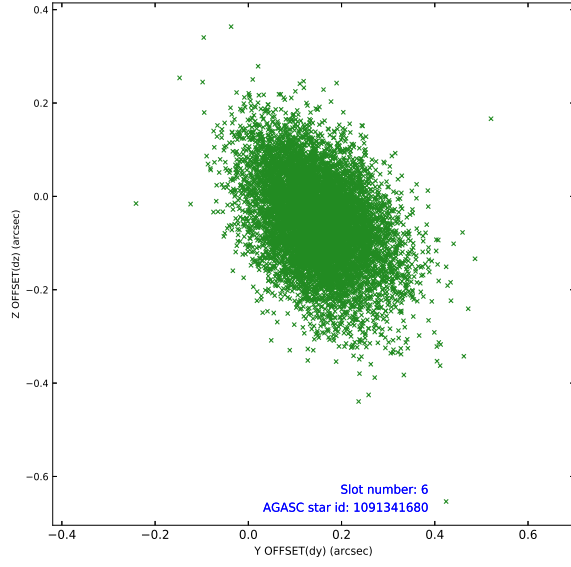
2.4.2 Slot 4



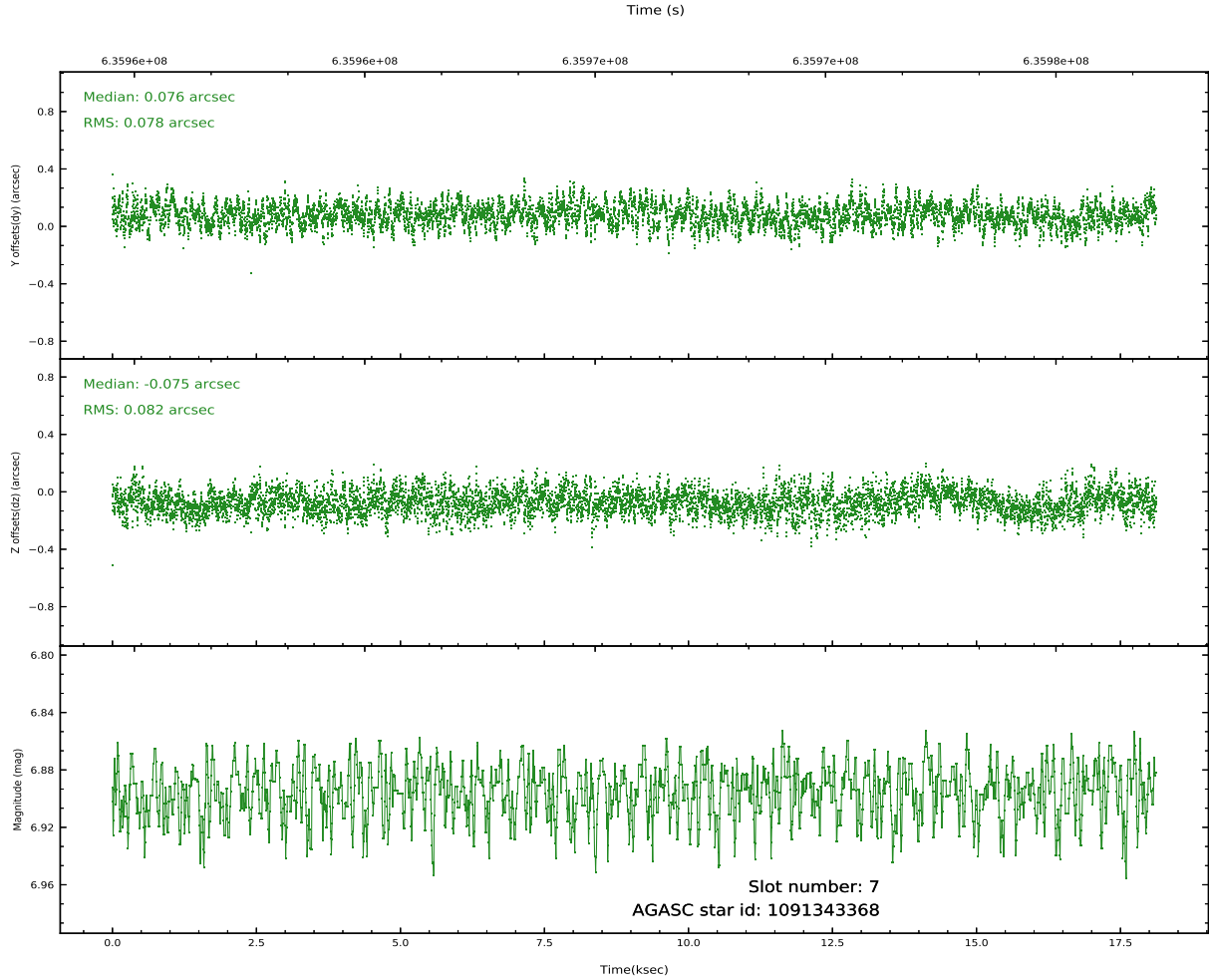
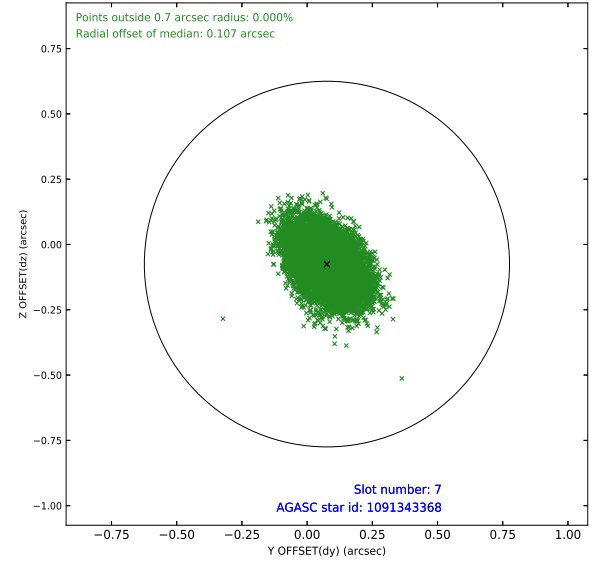
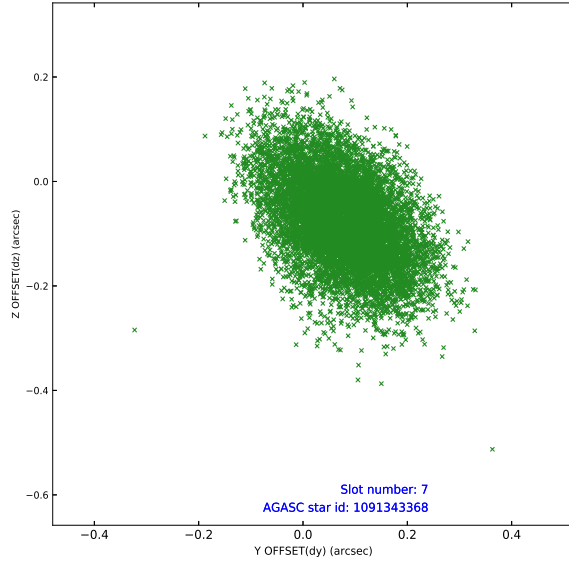
2.4.3 Slot 5



2.4.4 Slot 6

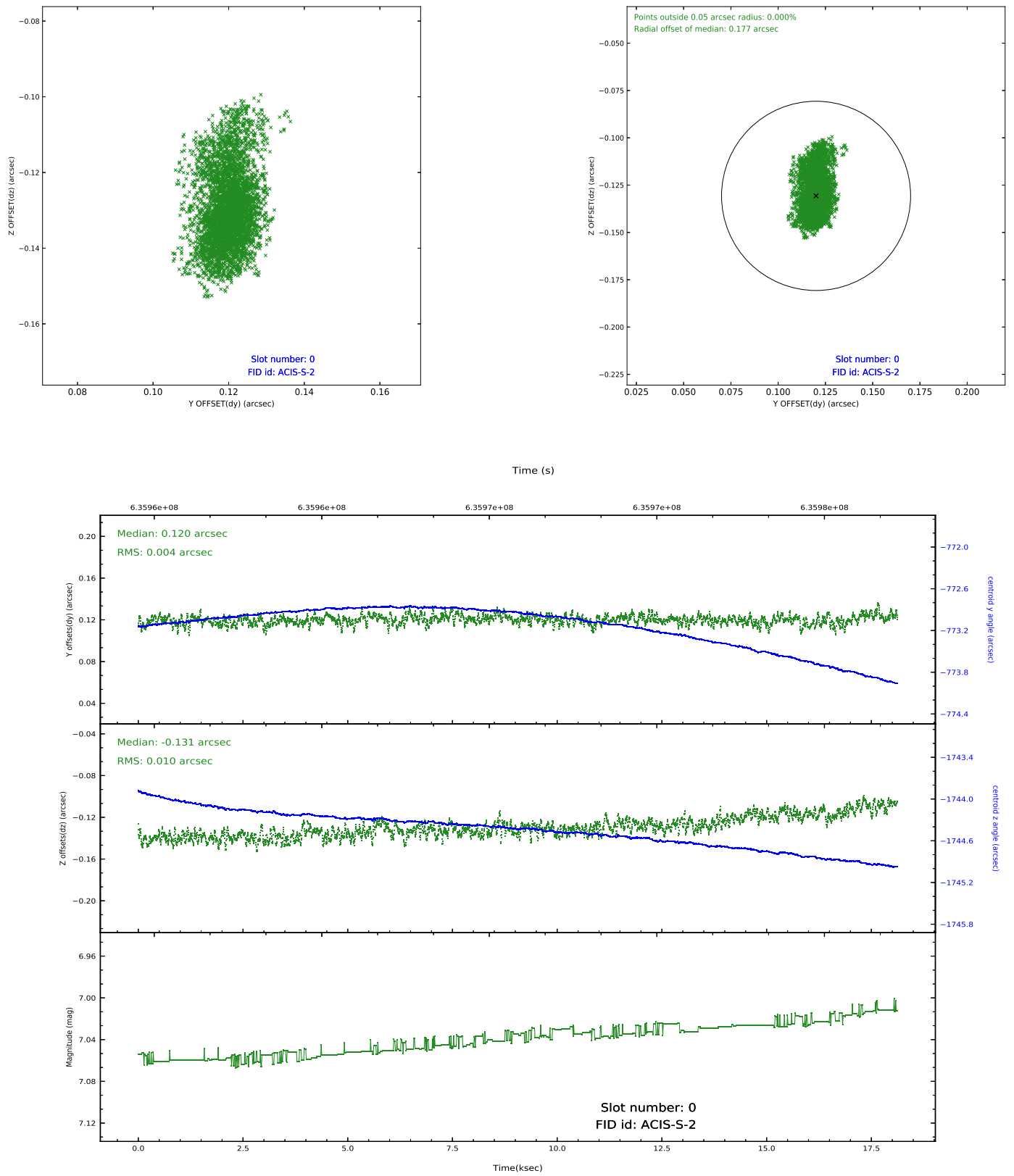


2.4.5 Slot 7

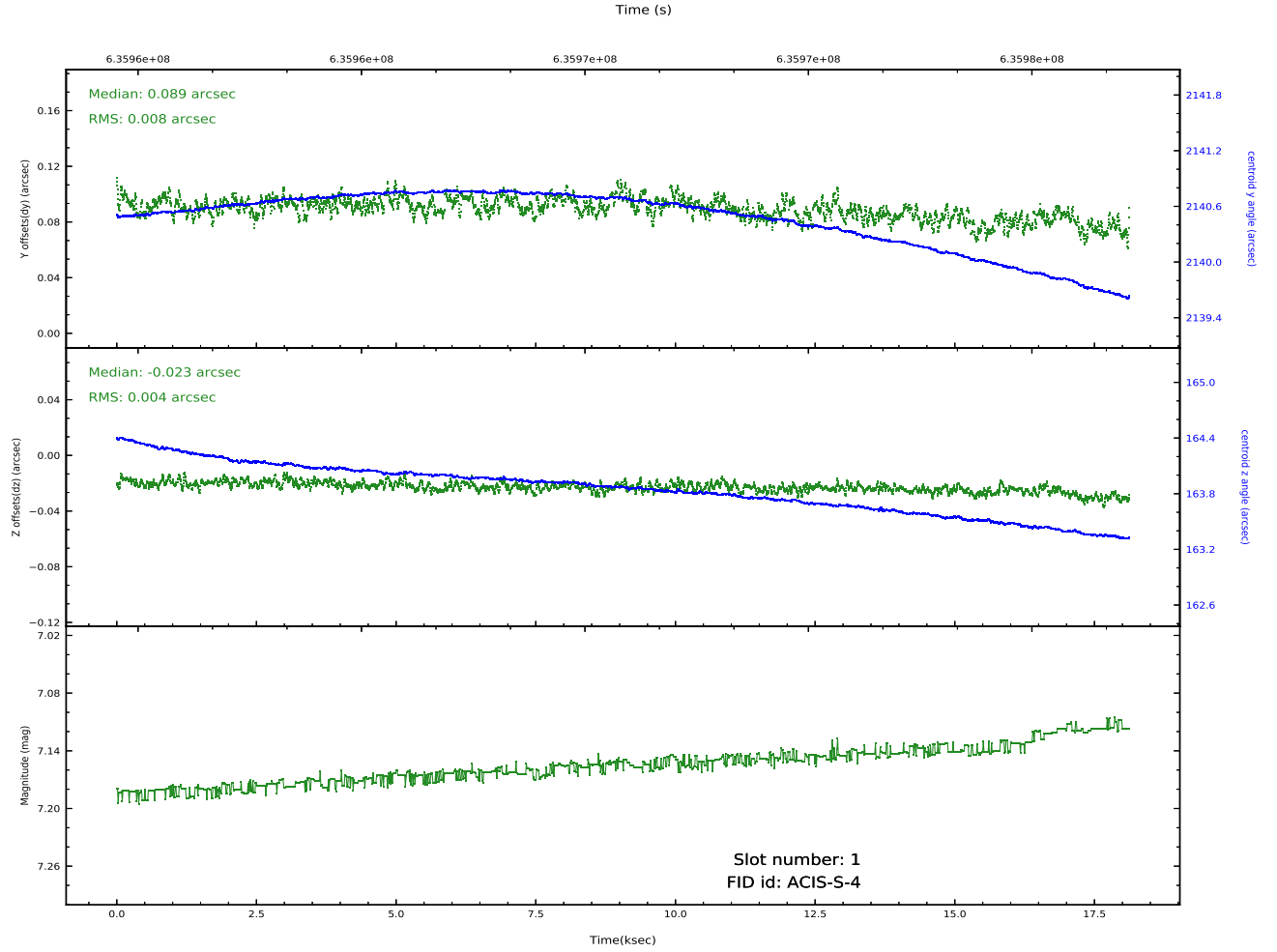
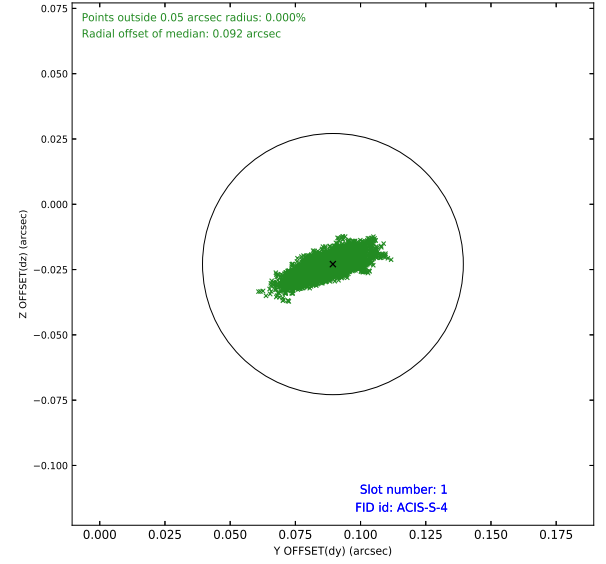
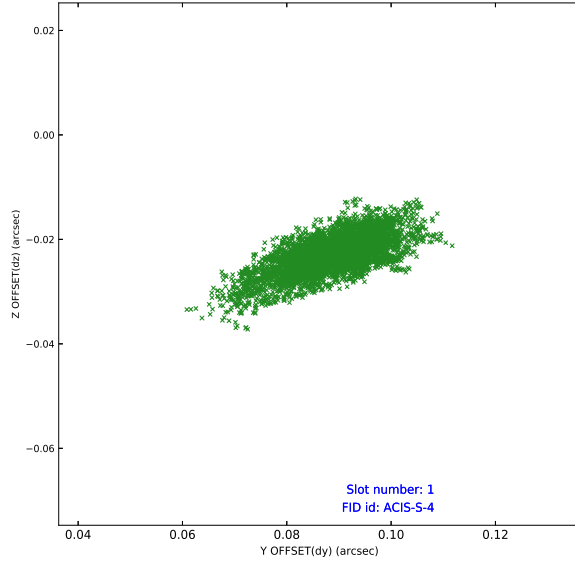


2.5 FID Slots

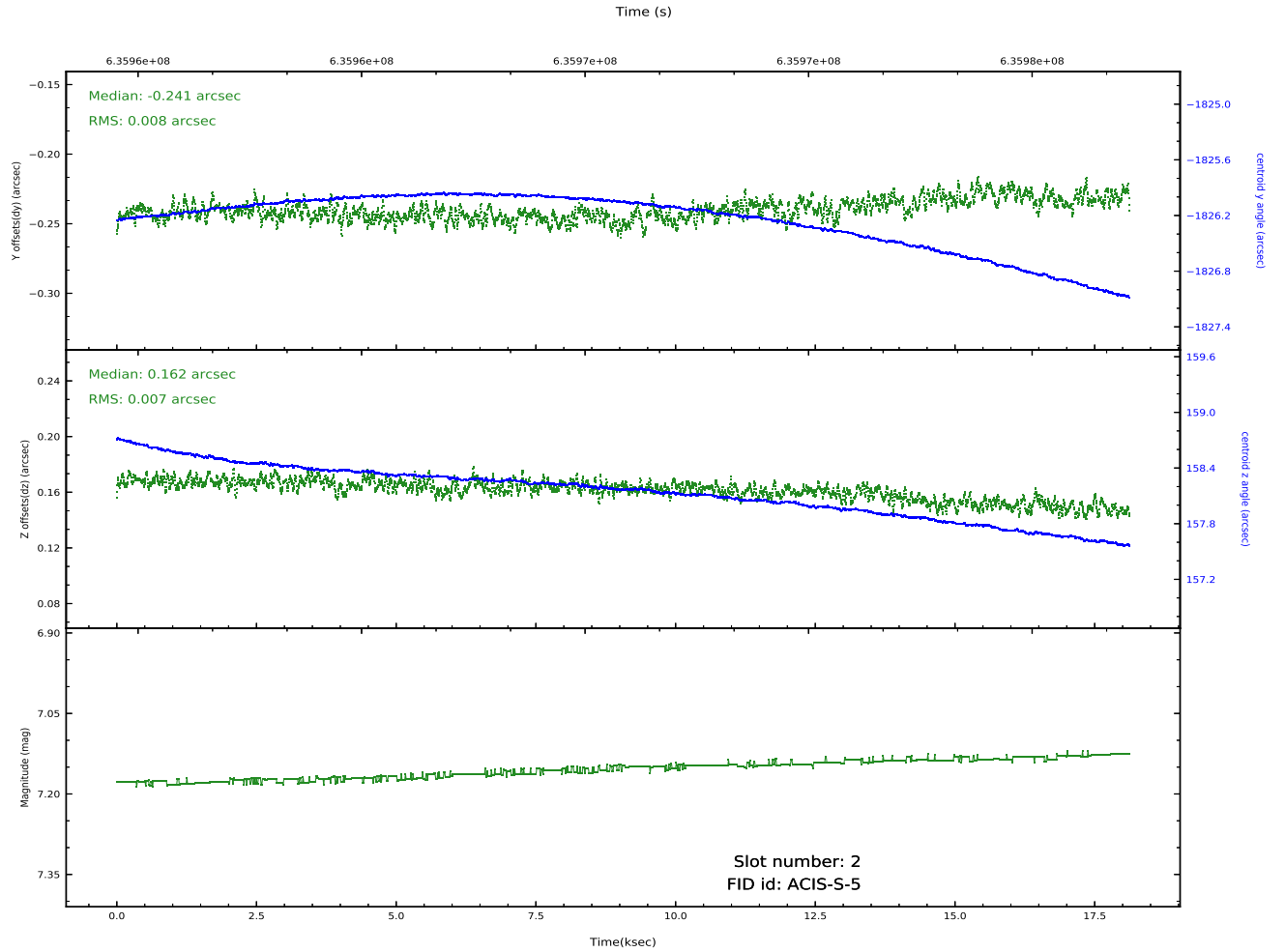
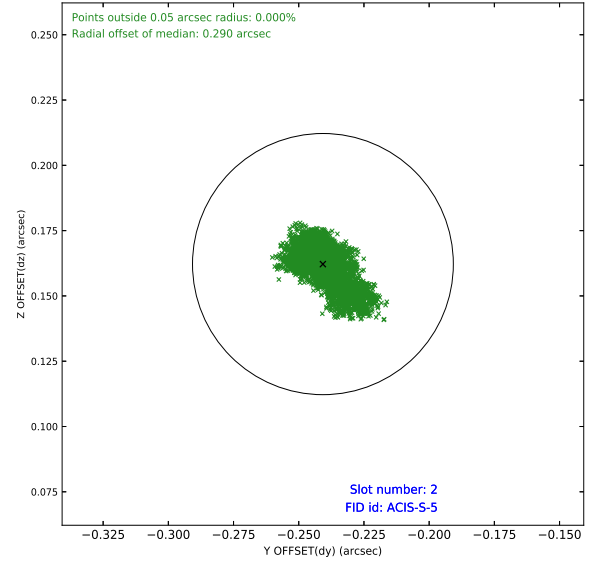
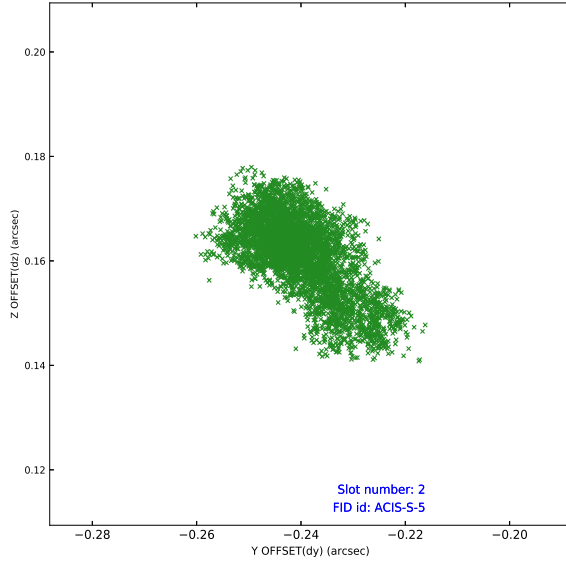
2.5.1 Slot 0



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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.06839892292

A.2 Comments

Joint proposal with NuSTAR.