

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21282 - L2 Version 1
Chandra X-Ray Center

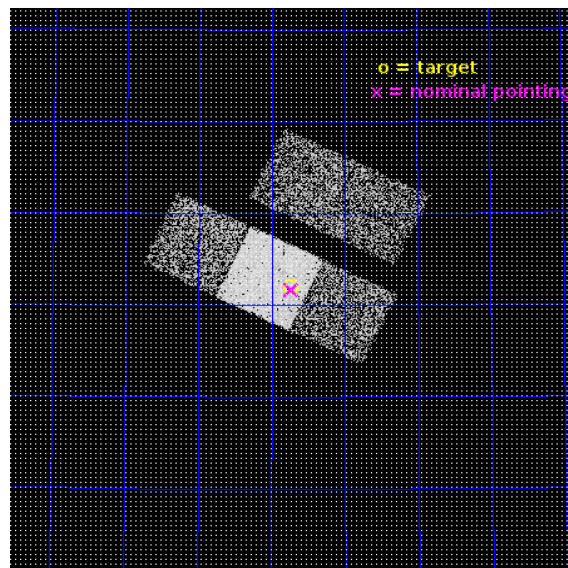
L2 Processing Date : Nov 10 2018

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1 Front

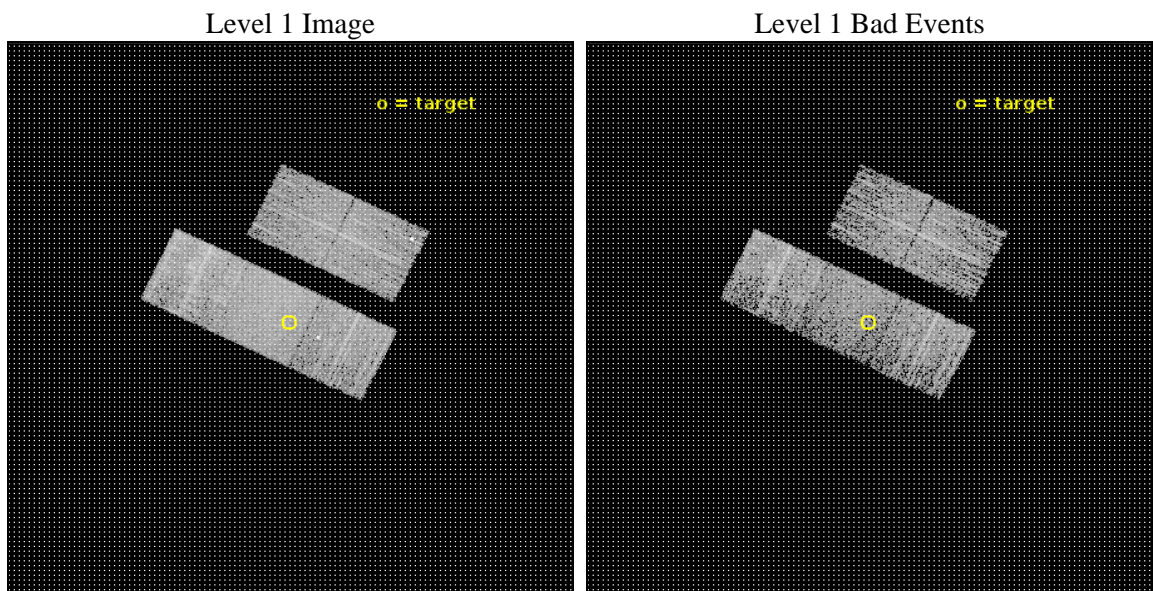
seq_num	503055	Sequence number
obs_id	21282	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J0147+5922	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	26.935833	Observer's specified target RA [deg]
dec_targ	59.367556	Observer's specified target Dec [deg]
ra_nom	26.932047139345	Nominal RA [deg]
dec_nom	59.361464935494	Nominal Dec [deg]
roll_nom	205.57605440114	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3729.0480279922	Sum of GTIs [s]
livetime	3680.3252702213	Livetime [s]
ontime2	3728.883867979	Sum of GTIs [s]
ontime3	3728.9659479856	Sum of GTIs [s]
ontime6	3729.0069880486	Sum of GTIs [s]
ontime7	3729.0480279922	Sum of GTIs [s]
ontime8	3728.924908042	Sum of GTIs [s]
l2events	25712	Number of level 2 events



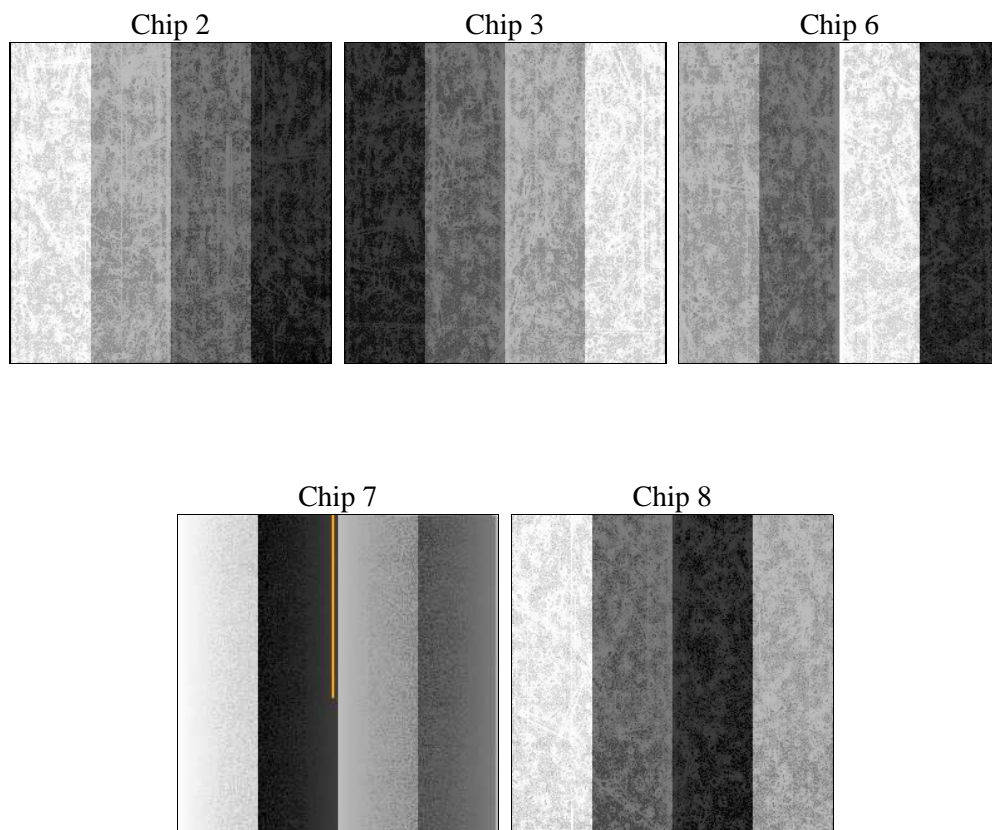
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3673.581000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	3729.0480279922	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime2	3728.883867979	Sum of GTIs [s]
date	2018-11-10T19:41:14	Date and time of file creation	ontime3	3728.9659479856	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3729.0069880486	Sum of GTIs [s]
			ontime7	3729.0480279922	Sum of GTIs [s]
			ontime8	3728.924908042	Sum of GTIs [s]
			l1events	158922	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	29626	26186	28756	35972	38382
rejected events	25774	23377	25011	20580	28672
rejected %	86%	89%	86%	57%	74%

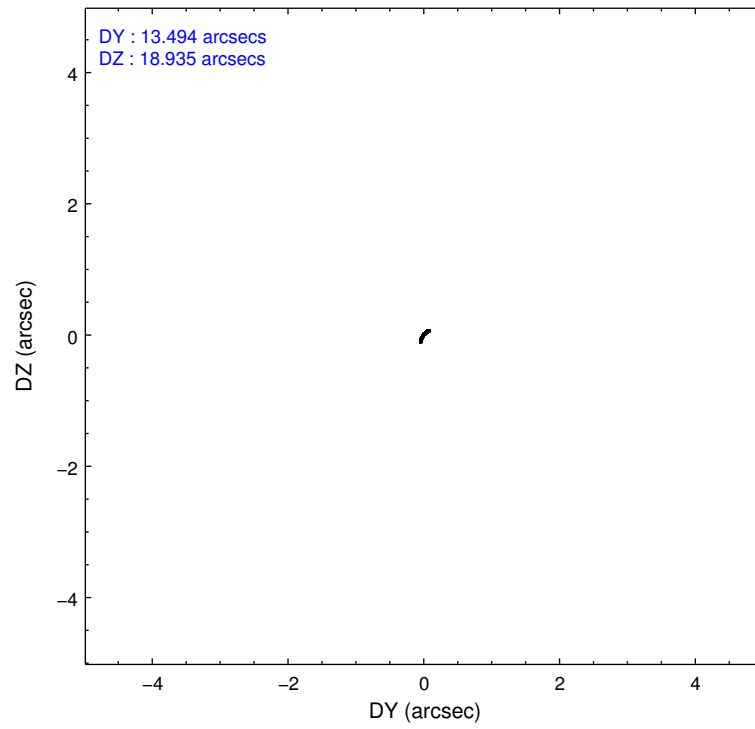
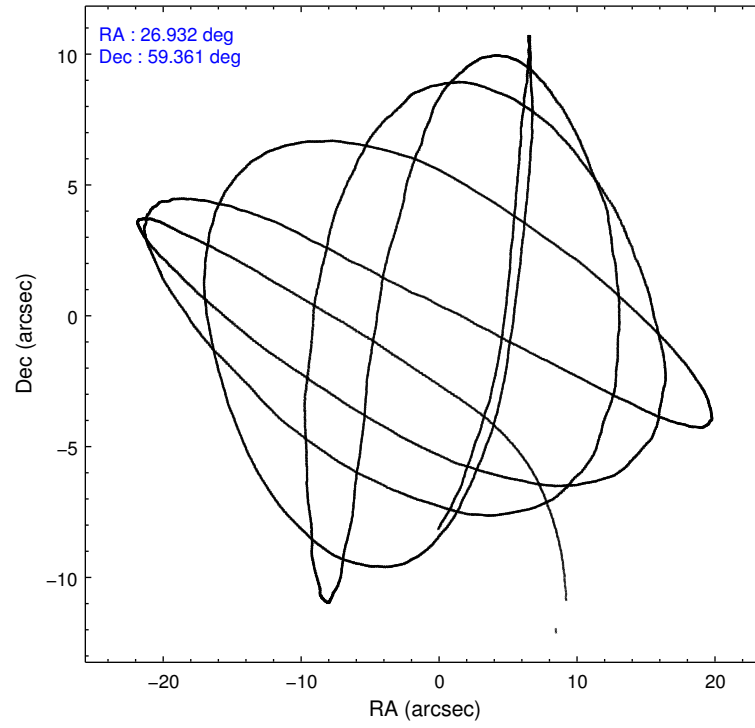
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2024	974	981	1262	2590
	6%	3%	3%	3%	6%
grade 1 events	23	15	14	53	18
	0%	0%	0%	0%	0%
grade 2 events	669	621	1436	3324	2423
	2%	2%	4%	9%	6%
grade 3 events	299	297	286	1192	1010
	1%	1%	0%	3%	2%
grade 4 events	313	296	305	1140	911
	1%	1%	1%	3%	2%
grade 5 events	1054	1283	1258	3530	1909
	3%	4%	4%	9%	4%
grade 6 events	551	624	742	8502	2786
	1%	2%	2%	23%	7%
grade 7 events	24693	22076	23734	16969	26735
	83%	84%	82%	47%	69%

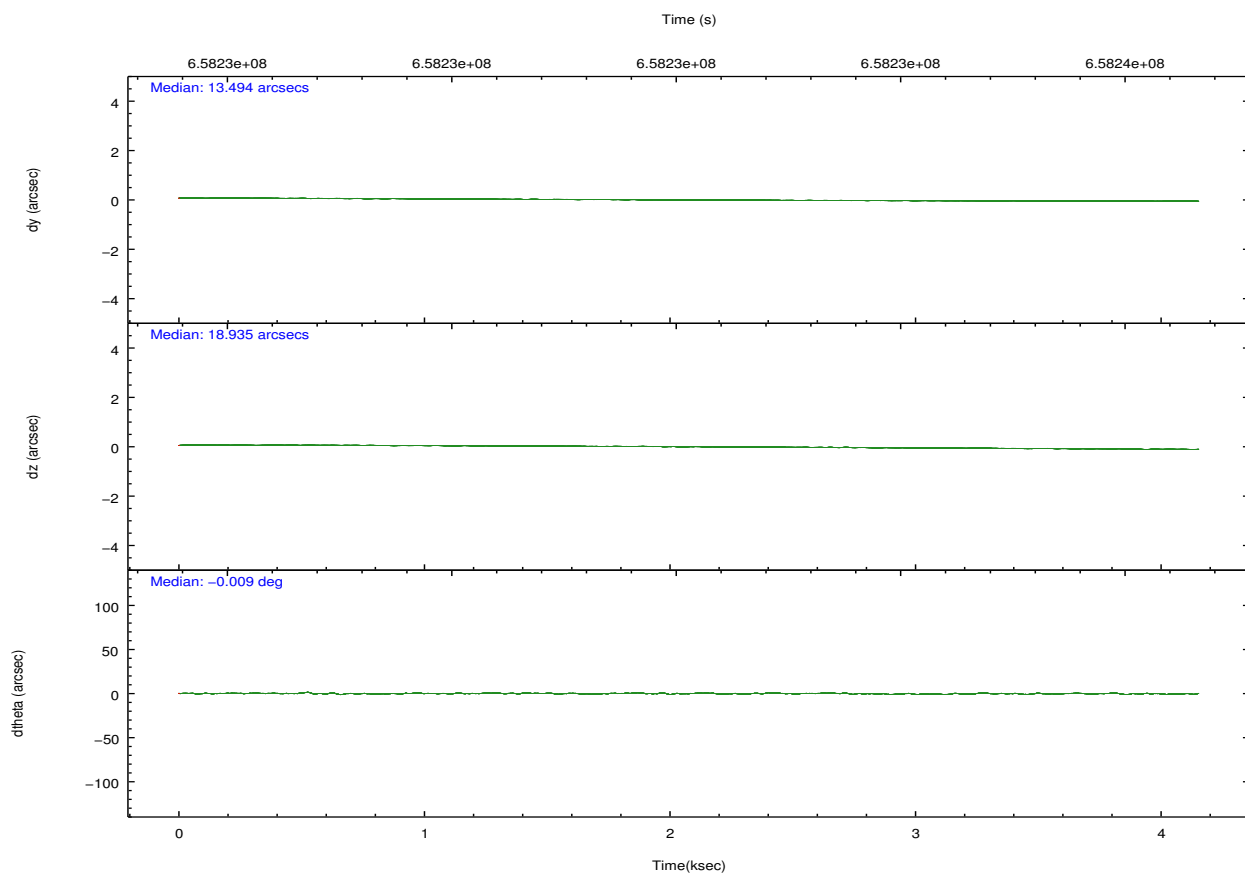
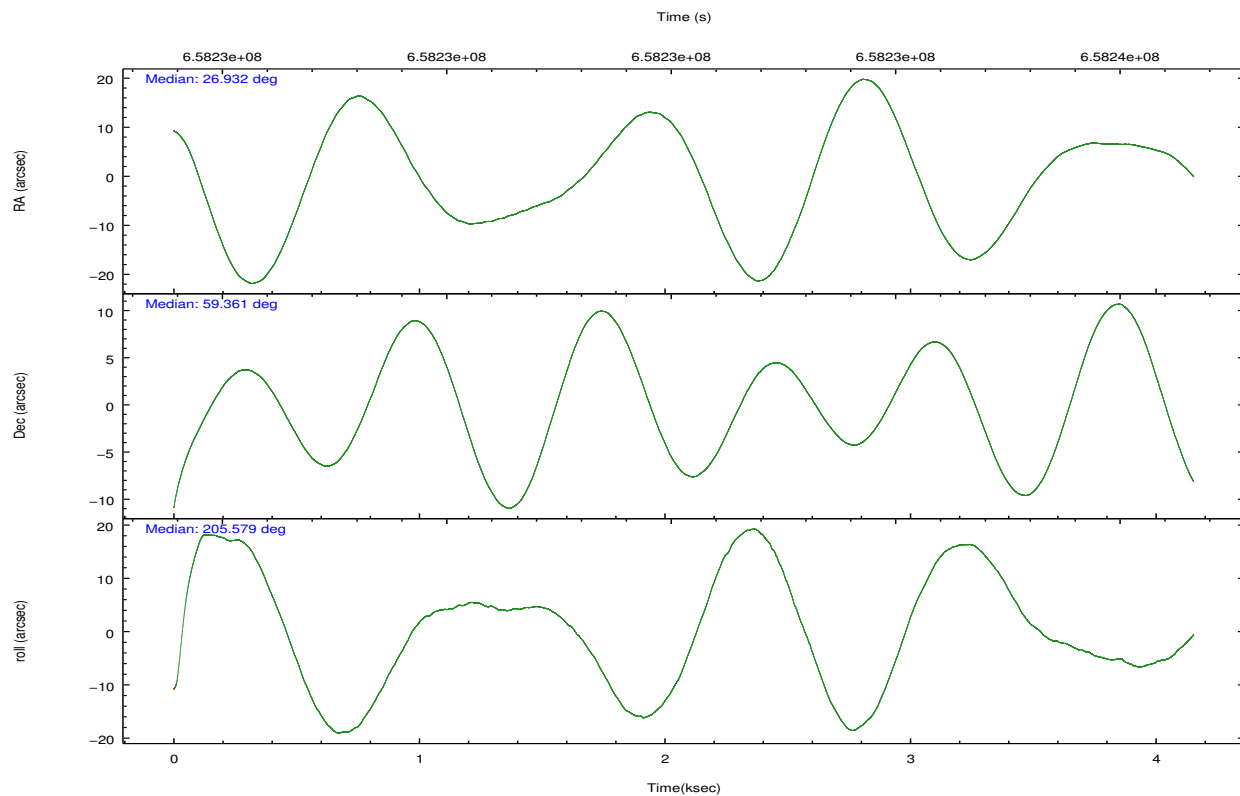
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	26.961931	26.93204713934527
[deg] Pointing Dec	59.384301	59.3614649354943
[deg] Pointing Roll	205.393766	205.5760544011443
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.145094680475
[mm] SIM translation stage offset	0	0.01257209746719923
[s] Observation start time (MET)	658231446.184000	658230357.20897
Observation start date	2018-11-10T10:02:57	2018-11-10T09:45:57
[s] Observation end time (MET)	658235120.184000	658235734.8717901
Observation end date	2018-11-10T11:04:11	2018-11-10T11:15:34
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



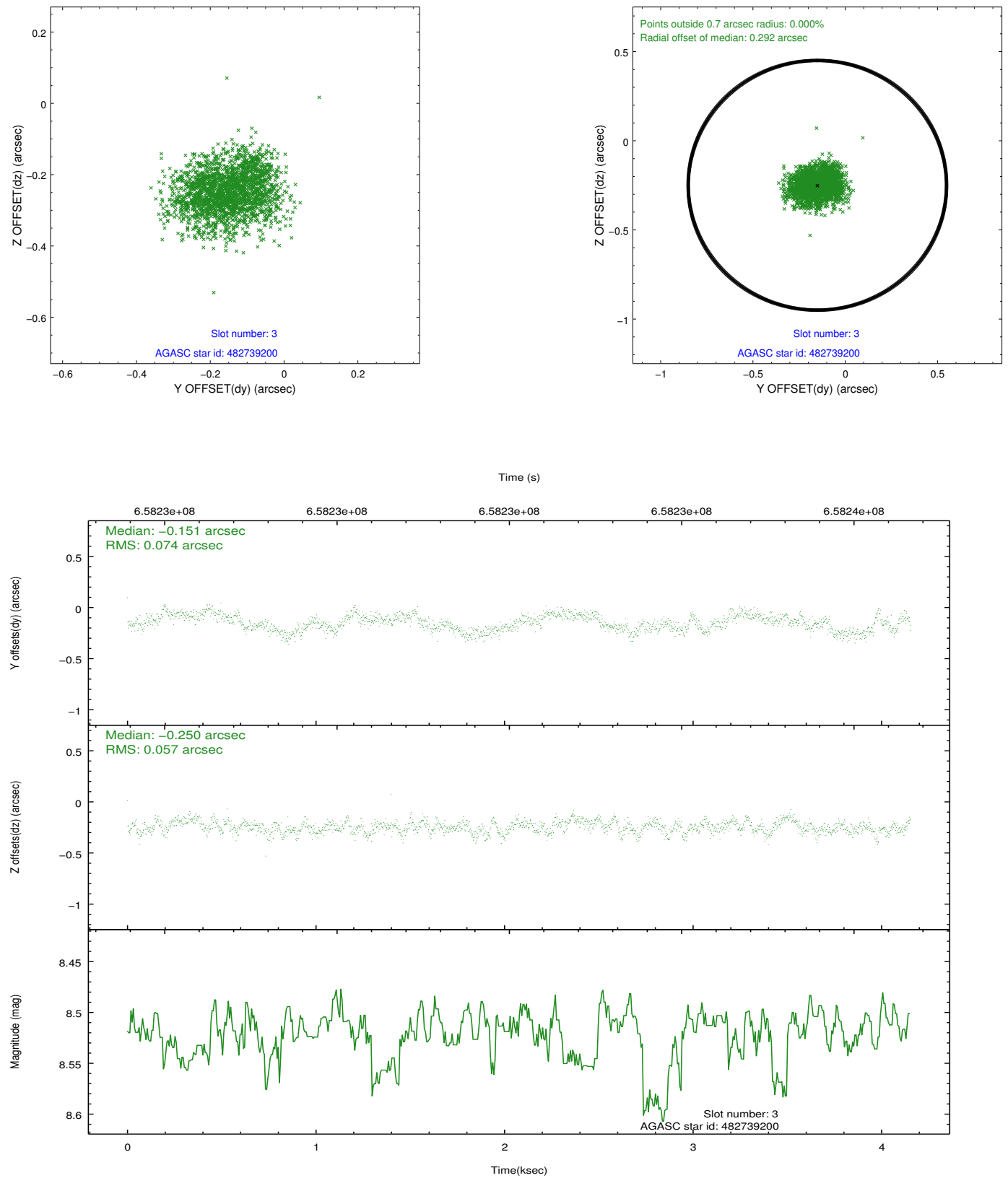


Slot Statistics

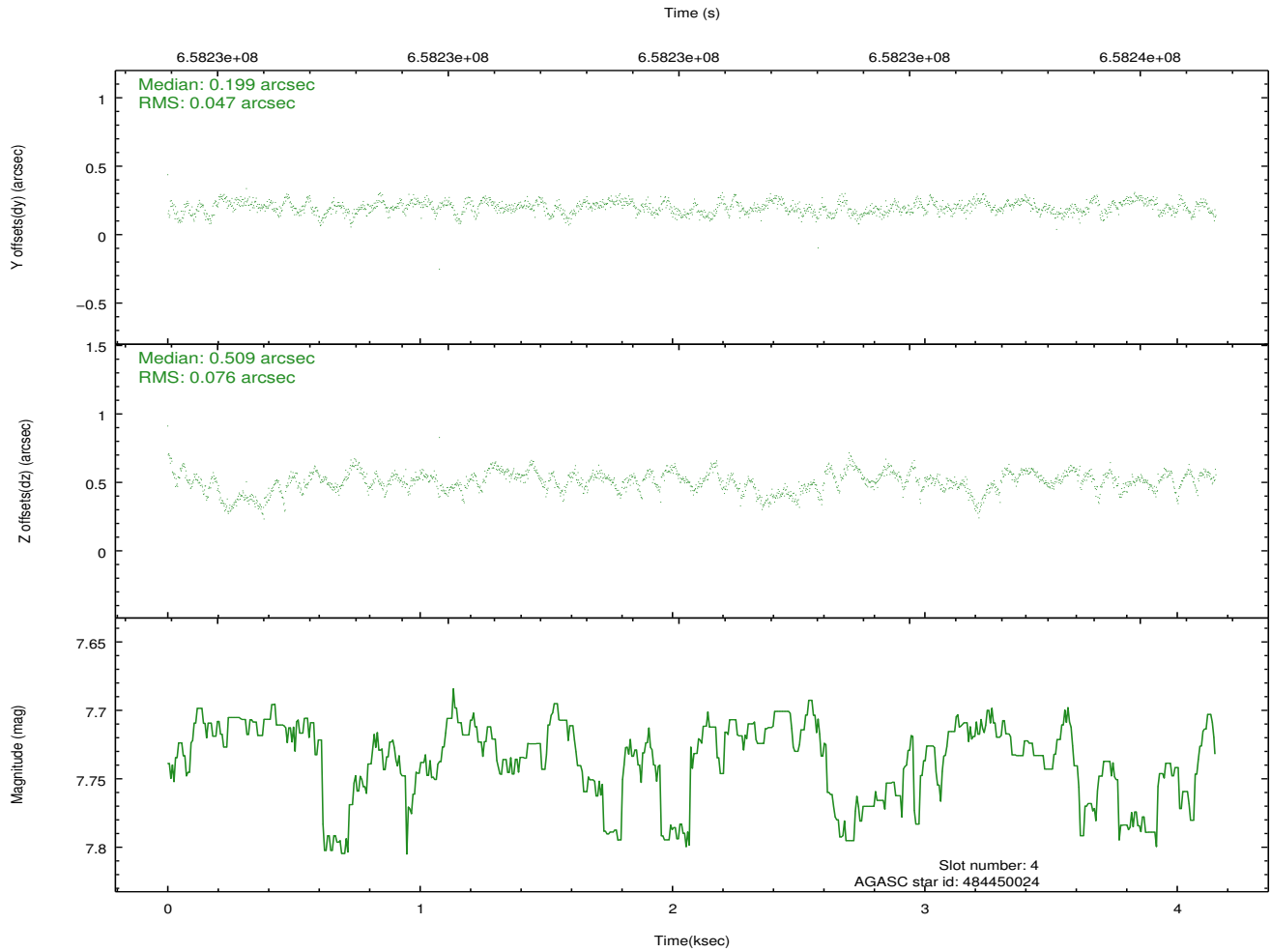
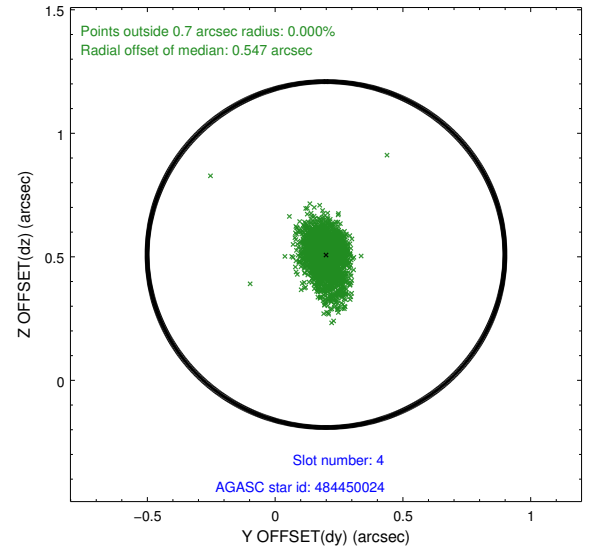
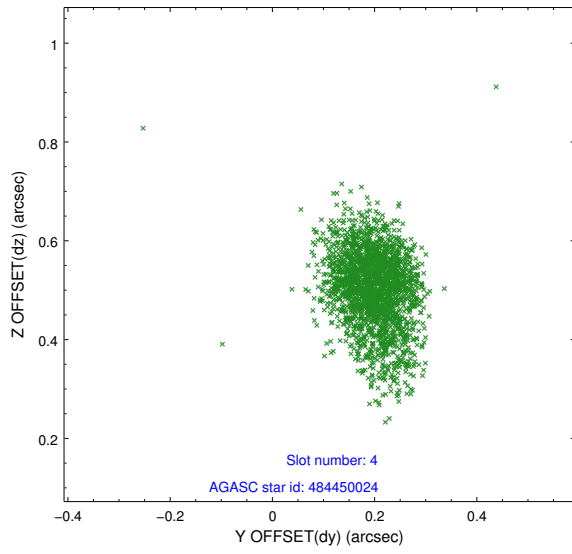
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.17	1014	1.000	0.212	-0.076	0.007	0.012	0.000000	0.000000	929.94	-1735
1	FID		ACIS-S-5	7.18	1013	1.000	-0.533	0.083	0.006	0.011	0.000000	0.000000	-1819.10	160
2	FID		ACIS-S-6	7.33	1014	1.000	0.300	0.004	0.007	0.012	0.000000	0.000000	393.79	805
3	GUIDE	used	482739200	8.52	2026	1.000	-0.151	-0.250	0.101	0.154	26.252521	58.791285	2107.08	1354
4	GUIDE	used	484450024	7.73	2027	1.000	0.199	0.509	0.089	0.164	27.050285	59.651513	-556.64	-799
5	GUIDE	used	484452184	8.19	2026	1.000	0.227	0.011	0.104	0.172	27.569376	59.519160	-1212.40	32
6	GUIDE	used	482749176	8.95	2025	1.000	-0.034	0.007	0.120	0.199	25.718489	59.250200	2264.62	-564
7	GUIDE	used	484462784	8.81	2024	1.000	-0.234	-0.271	0.119	0.204	27.338669	58.767833	316.25	2304

2.4 Star Slots

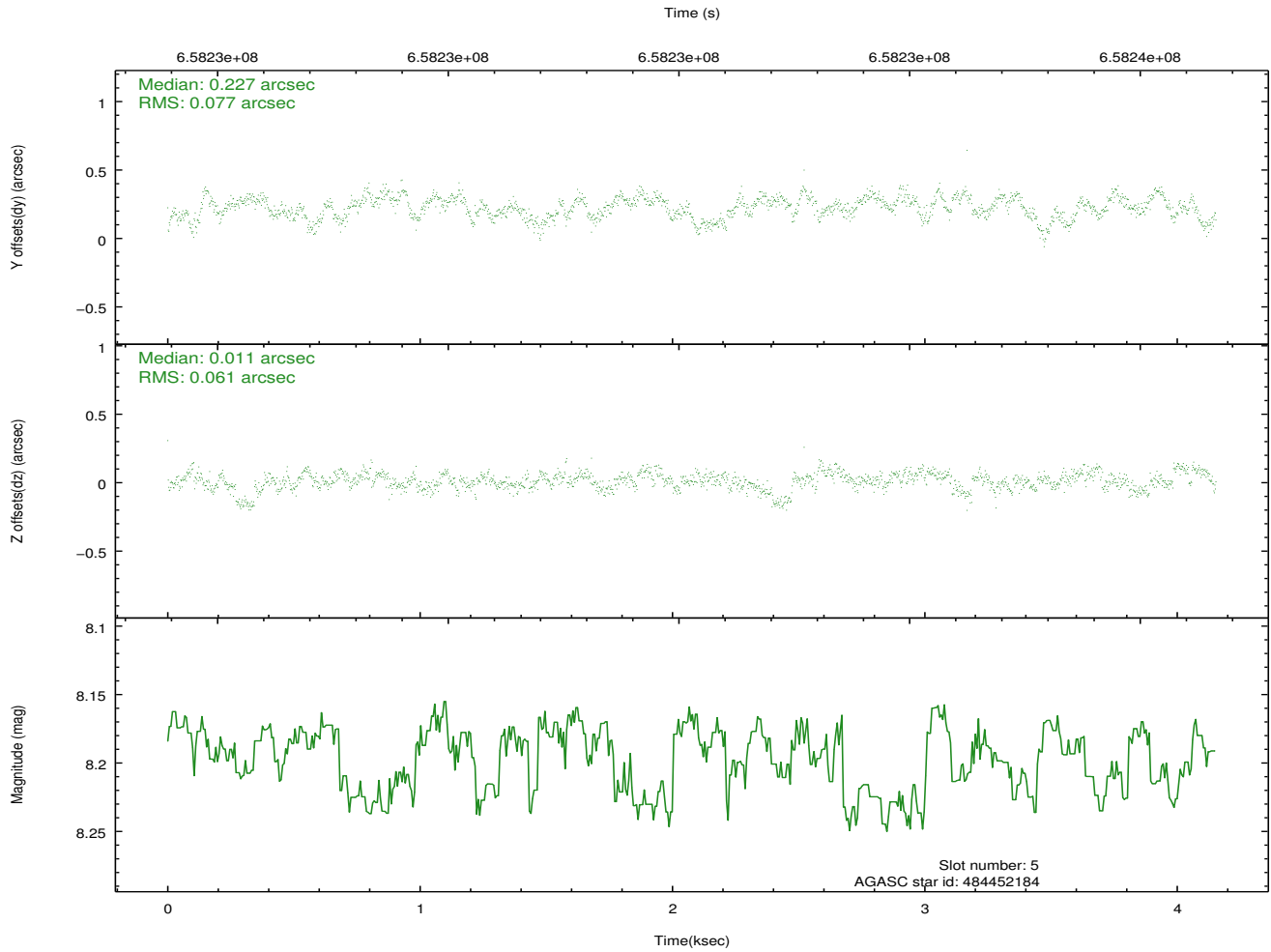
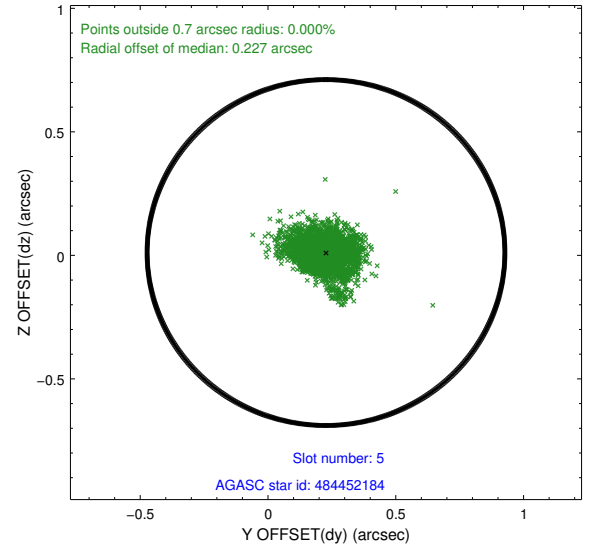
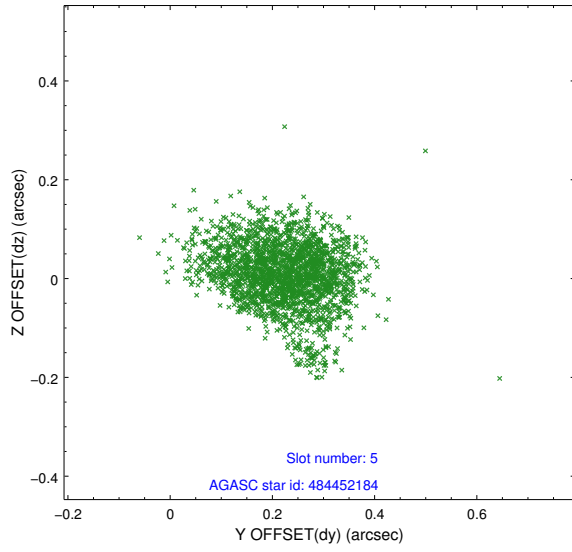
2.4.1 Slot 3



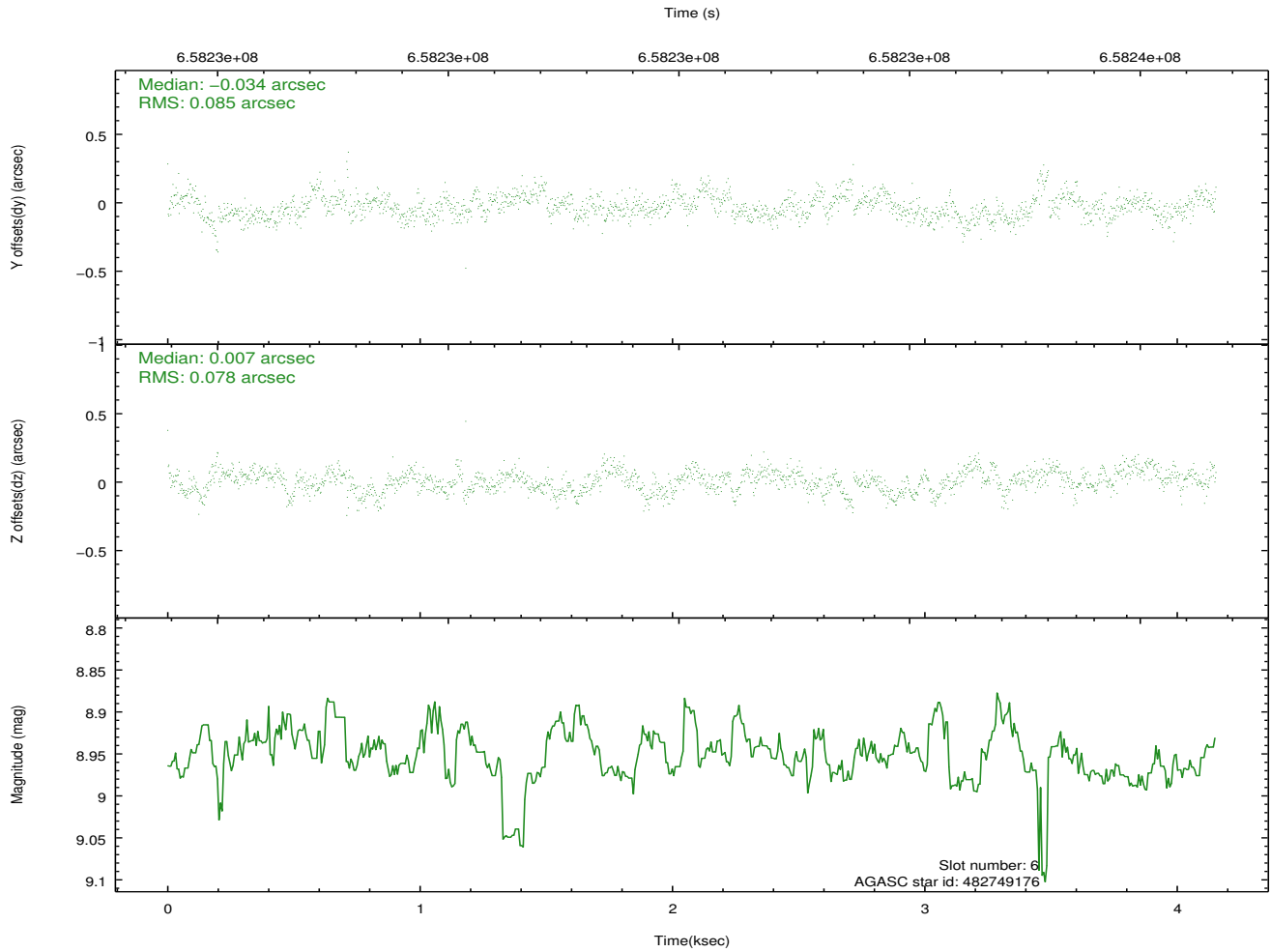
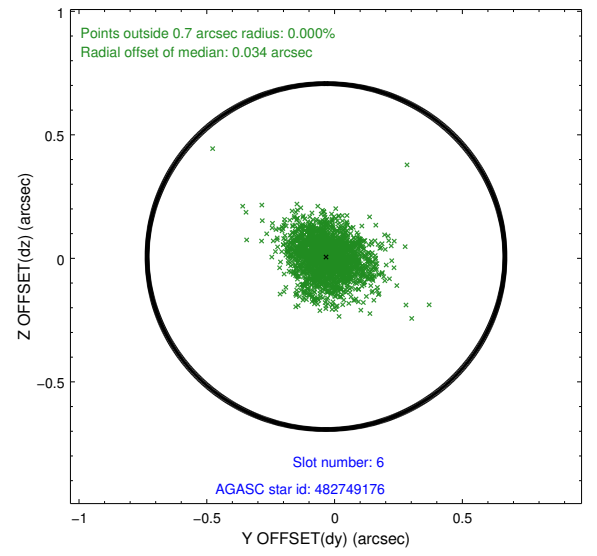
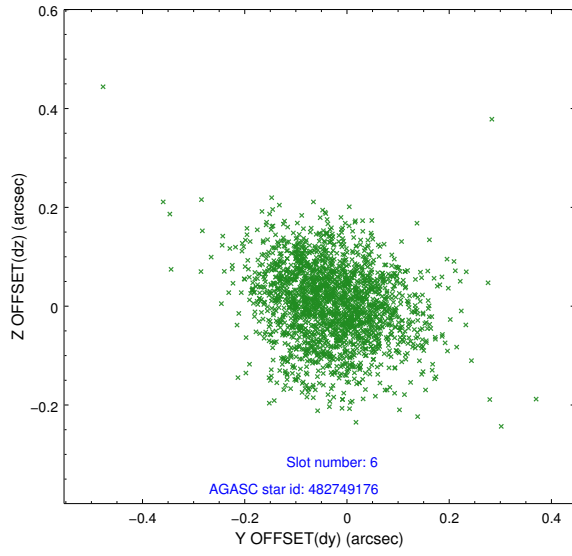
2.4.2 Slot 4



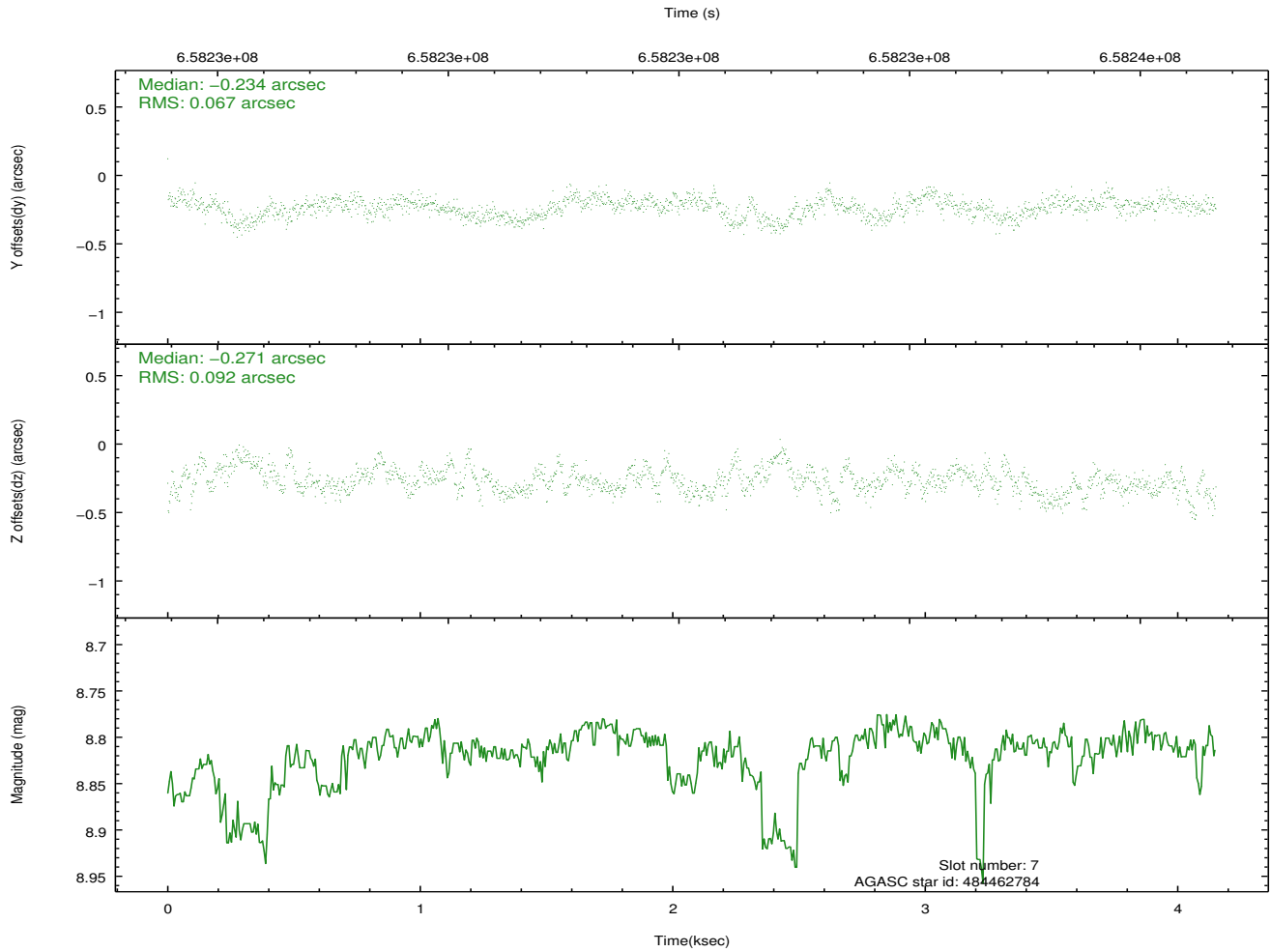
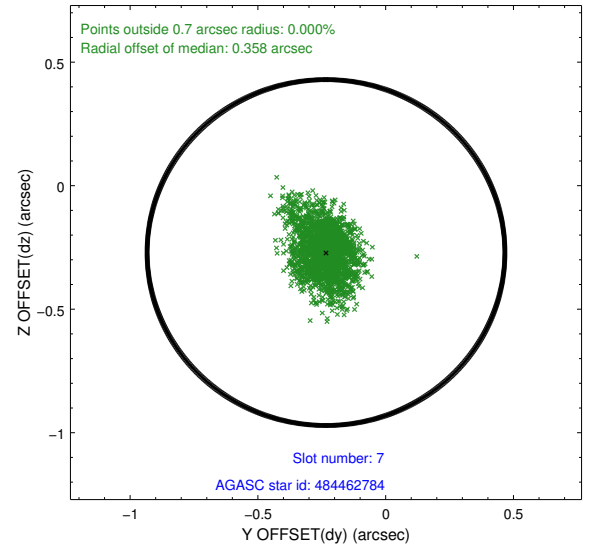
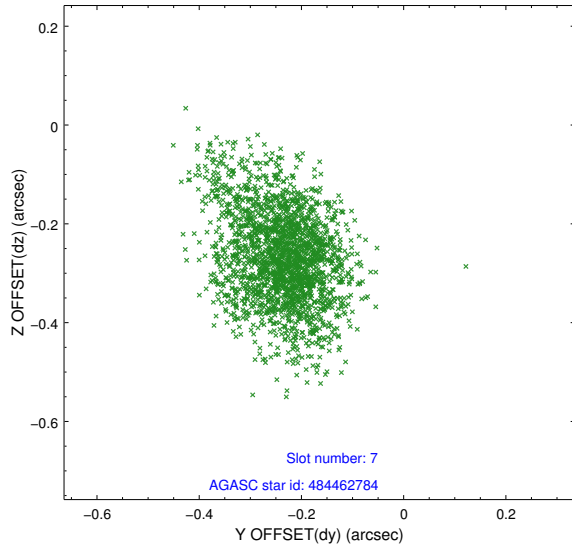
2.4.3 Slot 5



2.4.4 Slot 6

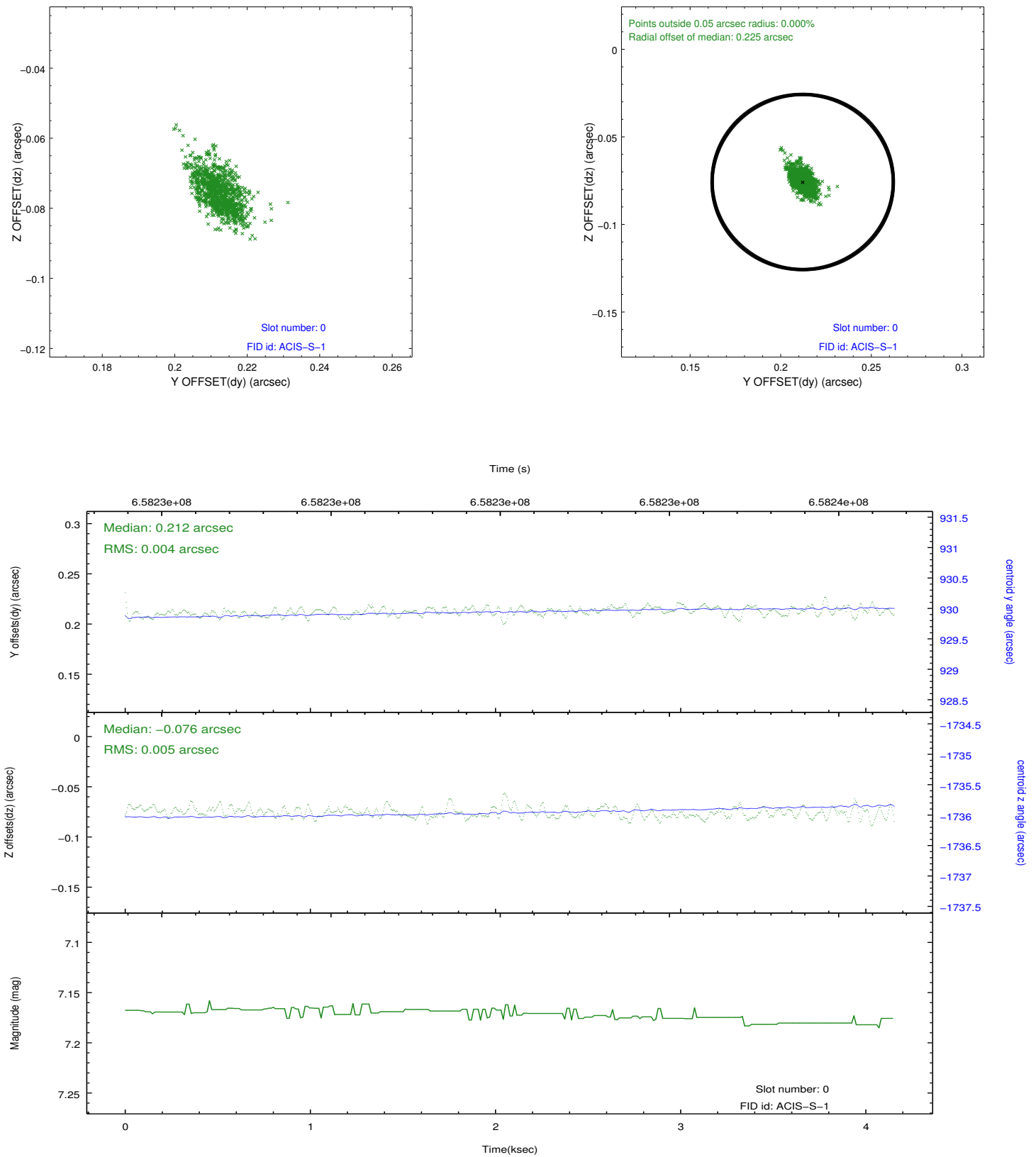


2.4.5 Slot 7

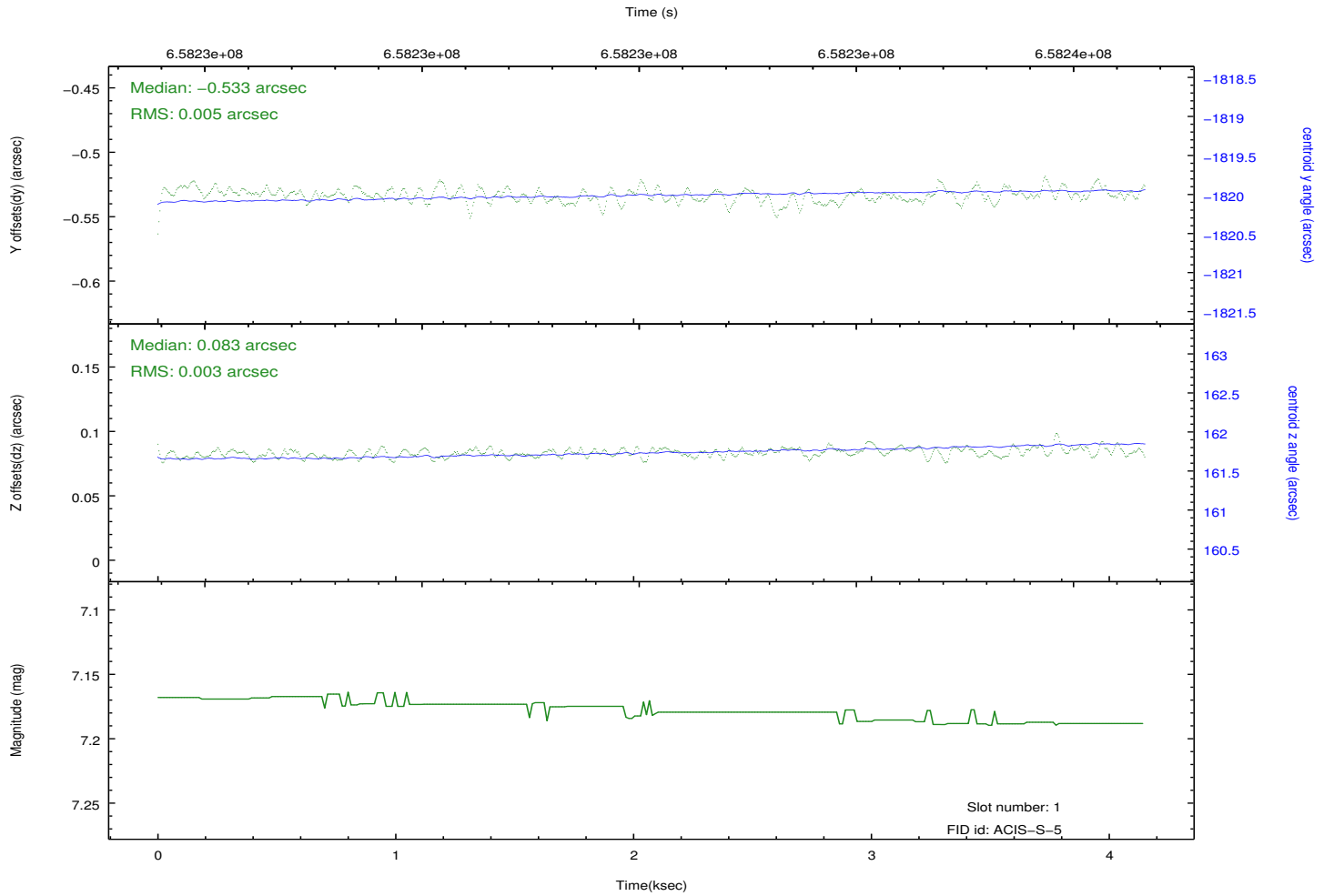
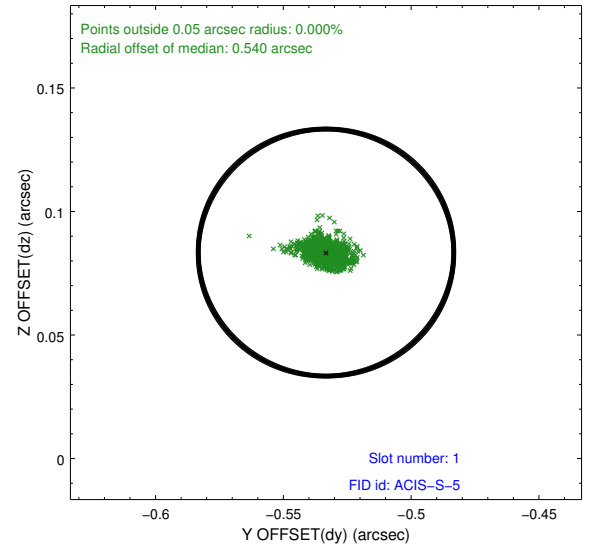
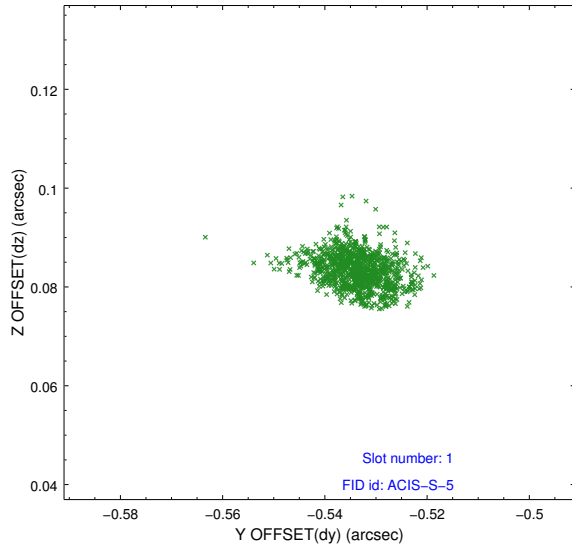


2.5 FID Slots

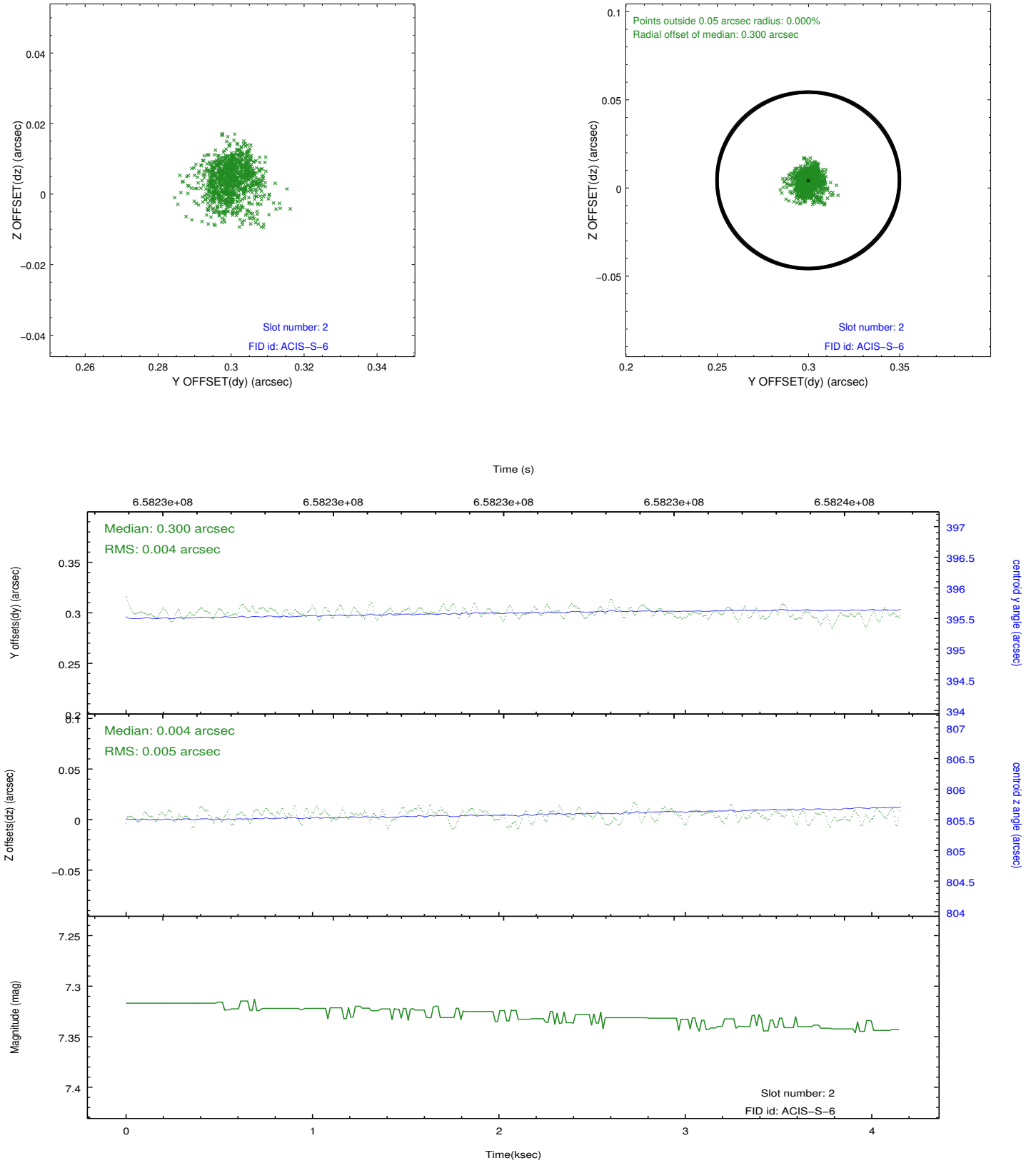
2.5.1 Slot 0



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)	2018.11.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.7290480279922

A.2 Comments