

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22451 - L2 Version 1
Chandra X-Ray Center

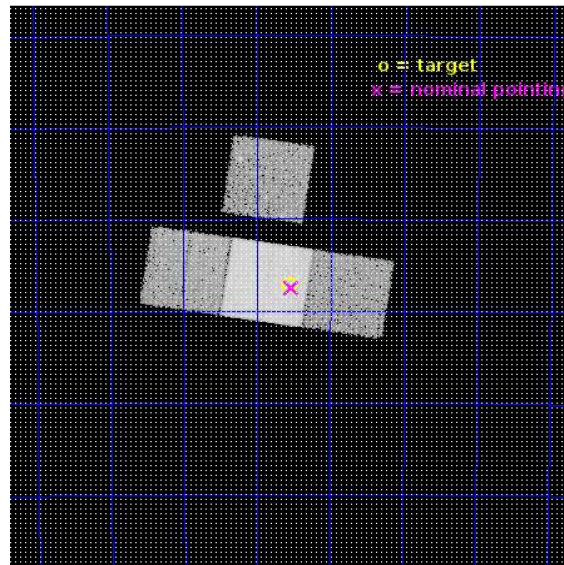
L2 Processing Date : Feb 23 2020

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

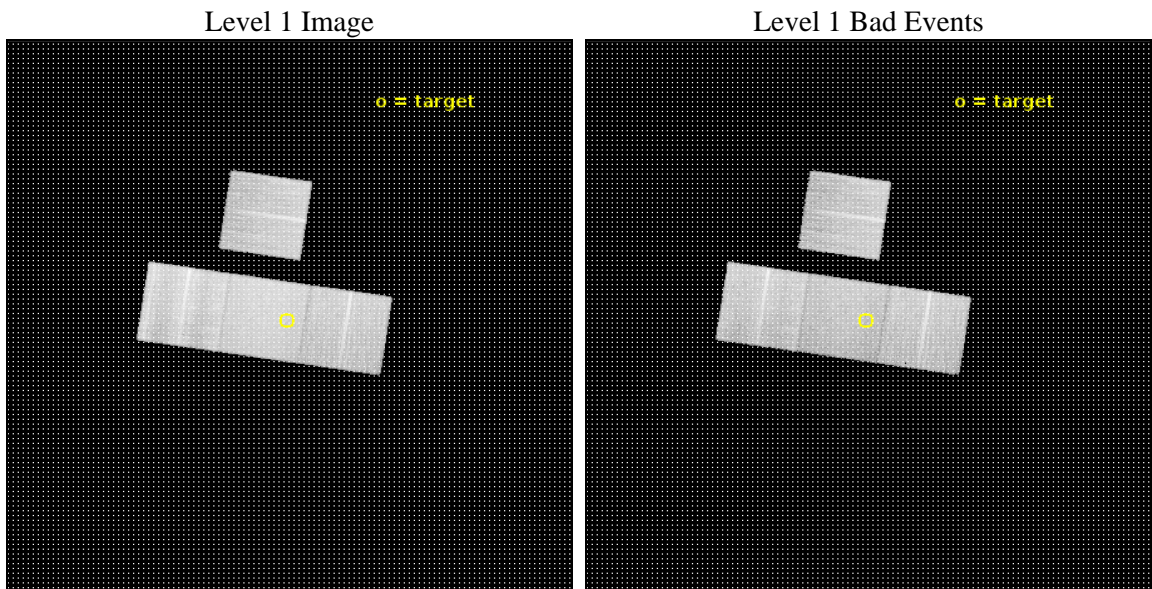
seq_num	503174	Sequence number
obs_id	22451	Observation id
title	Identification of the Host Galaxy of Swift Short GRBs by the Chandra Sub-arcsecond Position	Proposal title
observer	Takanori Sakamoto	Principal investigator
object	GRB200219A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	342.6376	Observer's specified target RA [deg]
dec_targ	-59.12	Observer's specified target Dec [deg]
ra_nom	342.63235902965	Nominal RA [deg]
dec_nom	-59.124746676136	Nominal Dec [deg]
roll_nom	188.60714418157	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19464.900149822	Sum of GTIs [s]
livetime	19210.576899514	Livetime [s]
ontime3	19461.759129882	Sum of GTIs [s]
ontime6	19464.900149822	Sum of GTIs [s]
ontime7	19464.900149822	Sum of GTIs [s]
ontime8	19464.900149822	Sum of GTIs [s]
l2events	131335	Number of level 2 events



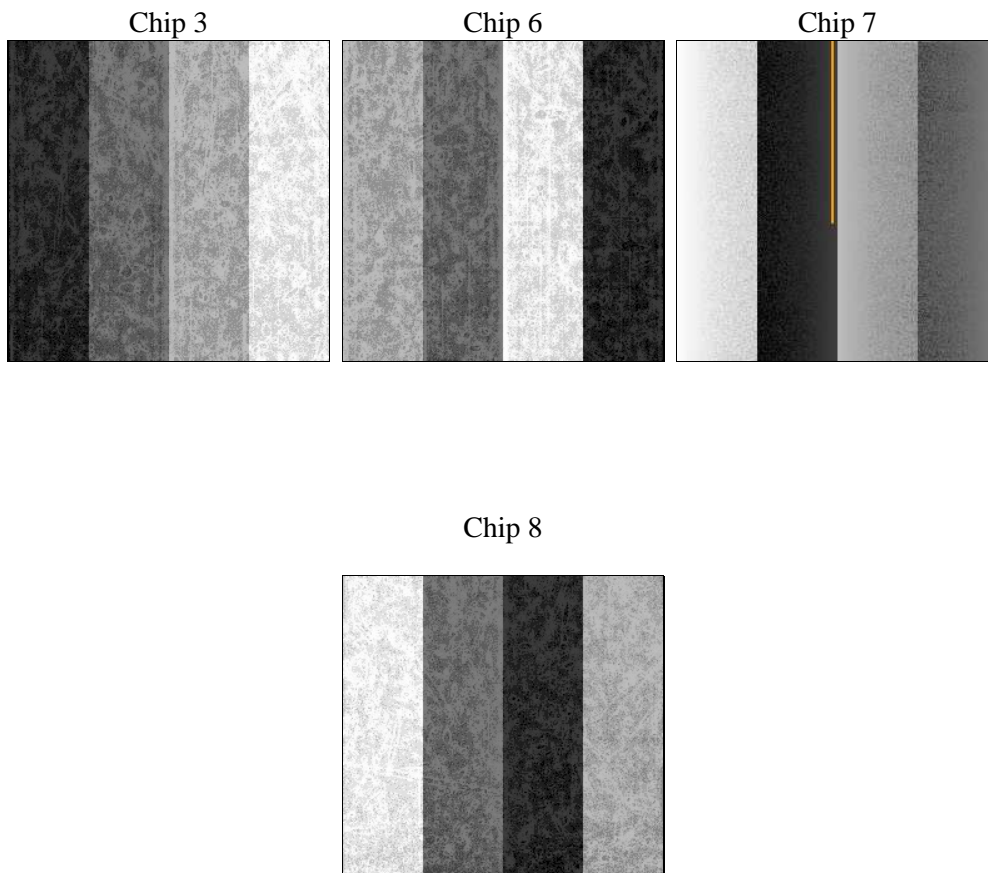
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19400.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	19464.900149822	Sum of GTIs [s]
caldbver	4.8.4.2	 	ontime3	19461.759129882	Sum of GTIs [s]
date	2020-02-24T04:17:13	Date and time of file creation	ontime6	19464.900149822	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	19464.900149822	Sum of GTIs [s]
			ontime8	19464.900149822	Sum of GTIs [s]
			l1events	701730	Number of level 1 events

2.1.4 Events

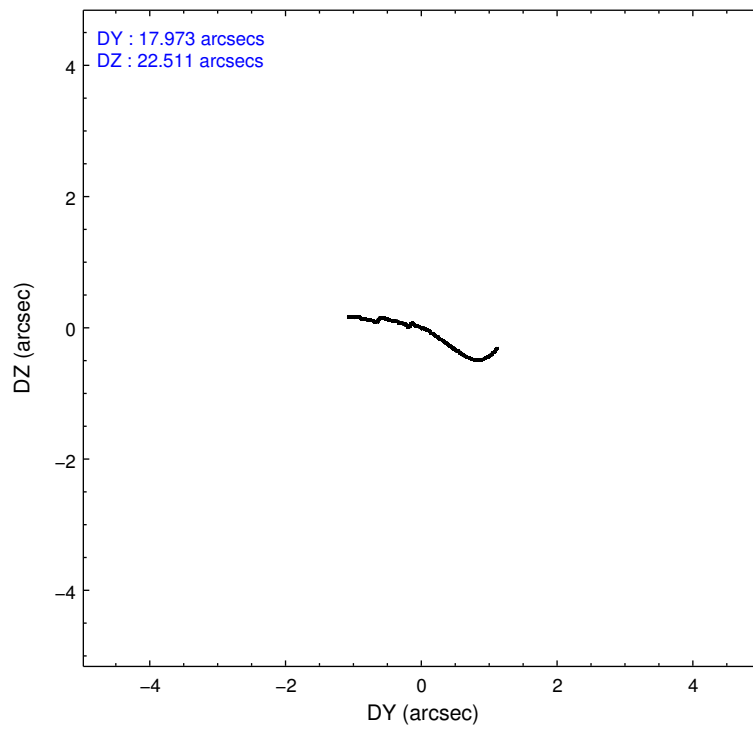
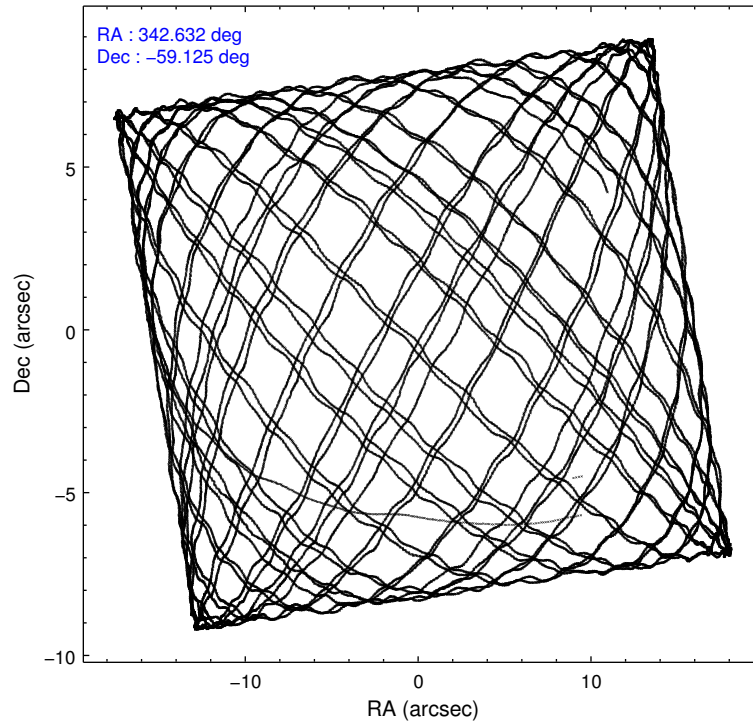
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	150606	150746	196739	203639
rejected events	134328	133576	112270	147423
rejected %	89%	88%	57%	72%

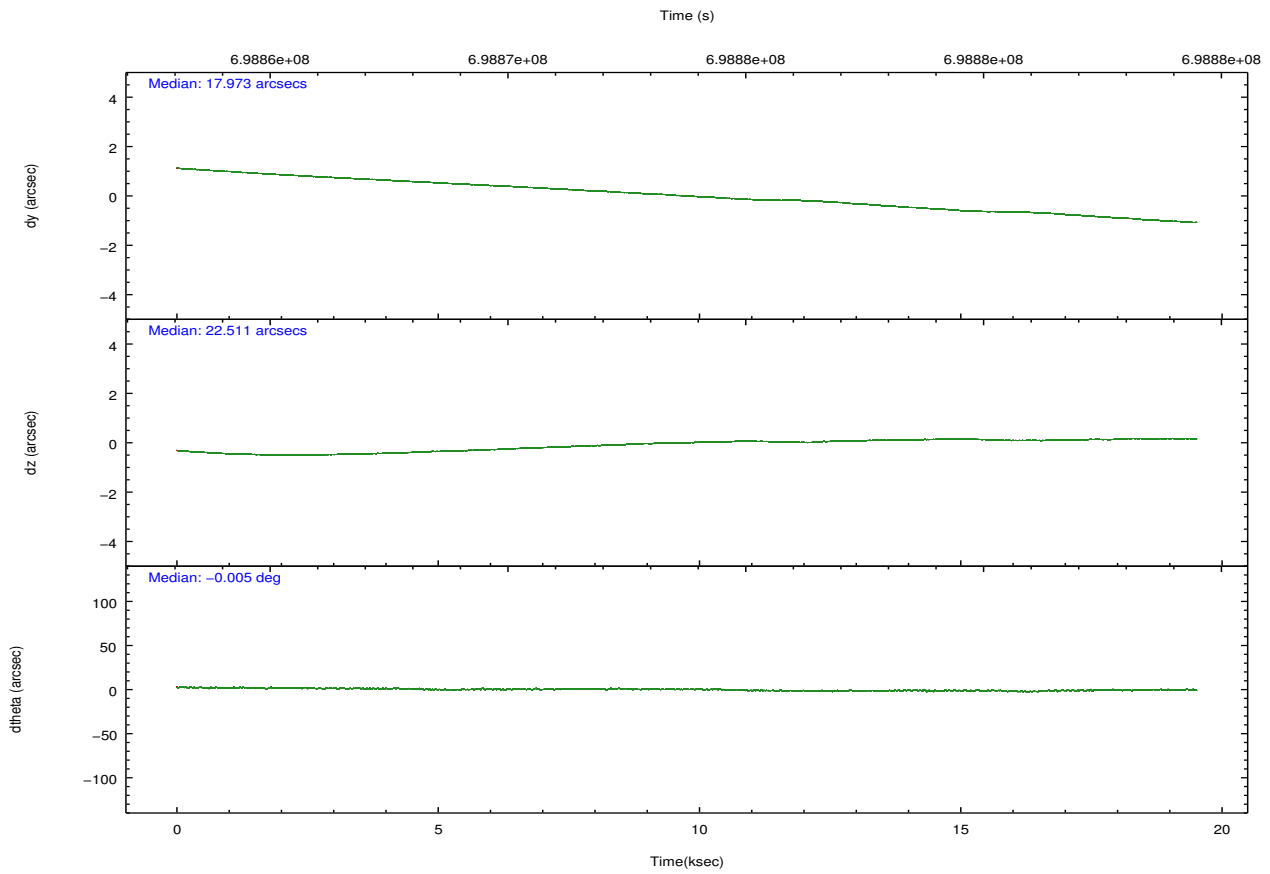
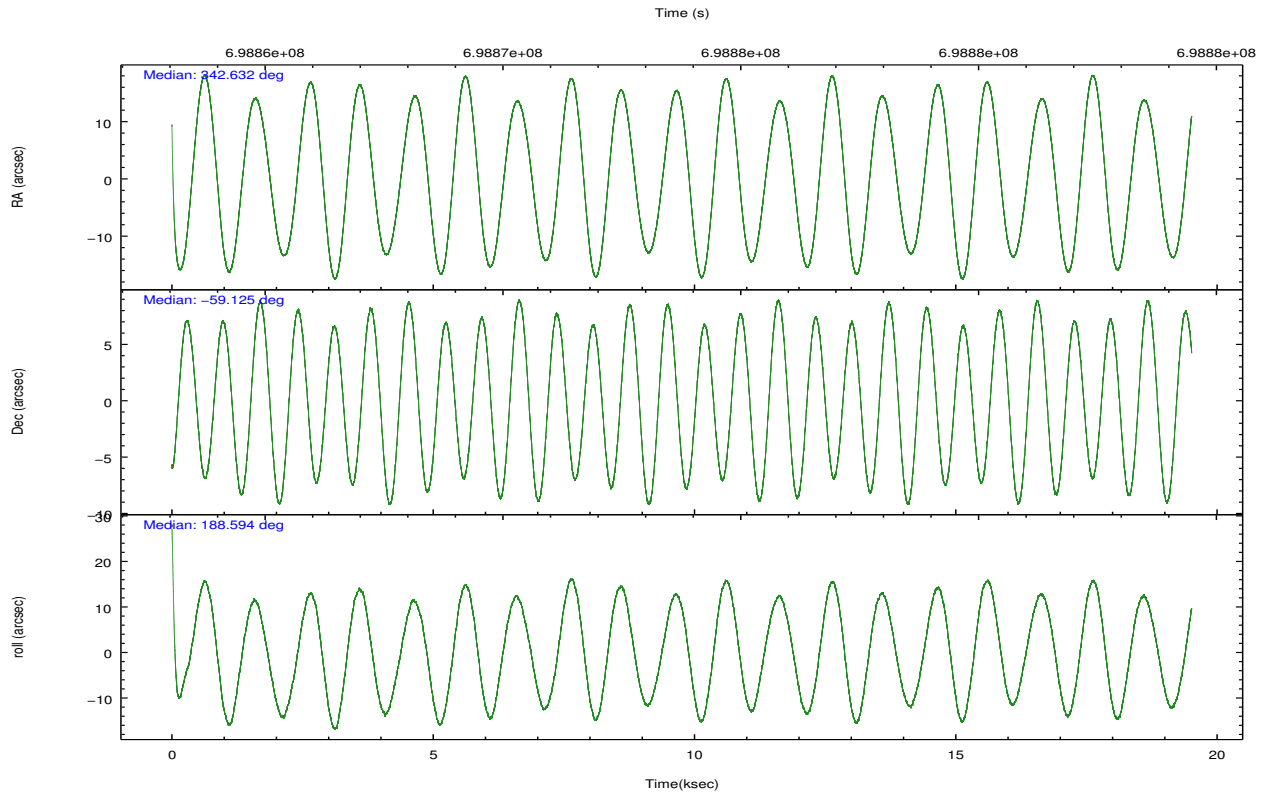
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	6042	5548	6988	16155
	4%	3%	3%	7%
grade 1 events	88	74	301	164
	0%	0%	0%	0%
grade 2 events	3536	4172	18463	13713
	2%	2%	9%	6%
grade 3 events	1649	1648	6408	5863
	1%	1%	3%	2%
grade 4 events	1672	1666	6320	5424
	1%	1%	3%	2%
grade 5 events	7134	6961	19121	10906
	4%	4%	9%	5%
grade 6 events	3383	4146	46319	15097
	2%	2%	23%	7%
grade 7 events	127102	126531	92819	136317
	84%	83%	47%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	342.673721	342.632359029646	CCD I2 on	N	N
[deg] Pointing Dec	-59.107347	-59.12474667613648	CCD I3 on	O1	Y
[deg] Pointing Roll	188.486008	188.6071441815677	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	O3	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	O2	Y
[s] Observation start time (MET)	698864132.184000	698862738.27373	CCD S5 on	N	N
Observation start date	2020-02-23T16:54:23	2020-02-23T16:32:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	698883532.184000	698884170.00003	On-chip summing requested	N	N
Observation end date	2020-02-23T22:17:43	2020-02-23T22:29:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





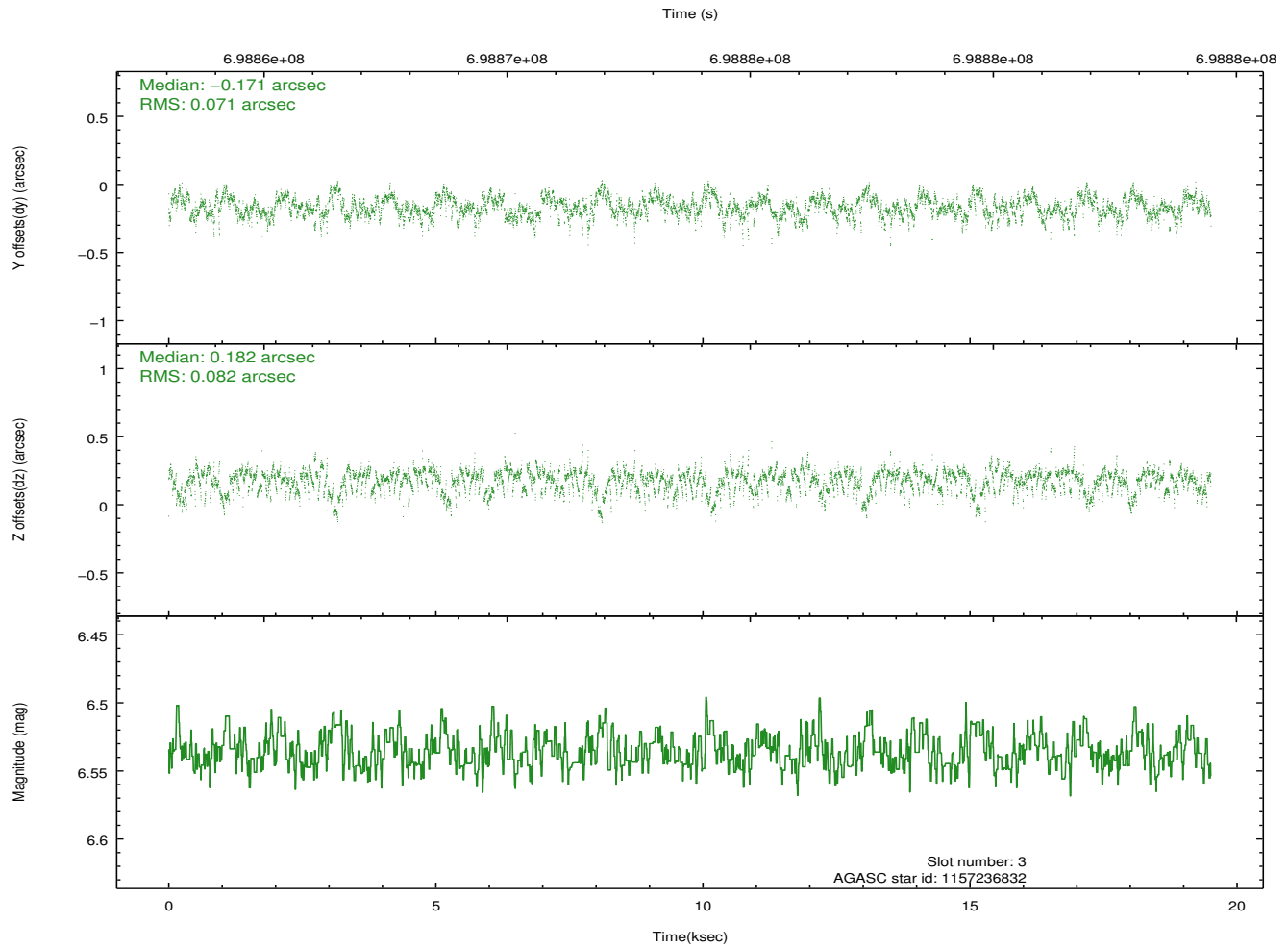
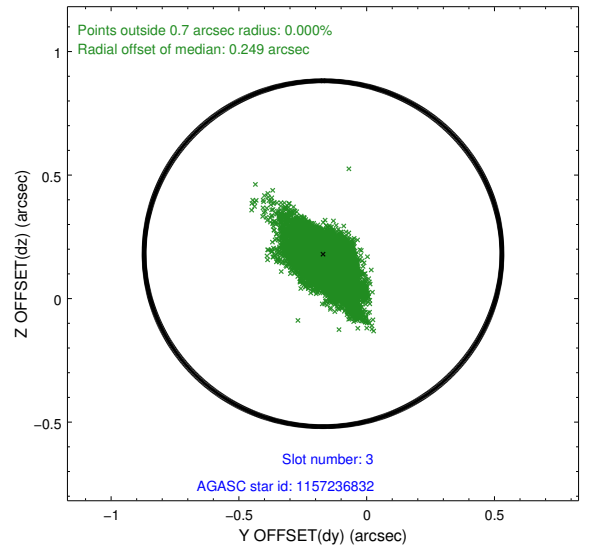
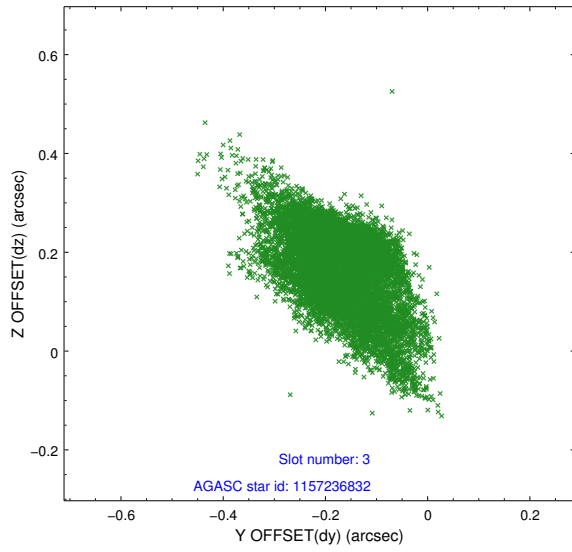
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.07	4760	1.000	-0.312	-0.294	0.021	0.029	0.000000	0.000000	-771.33	-1744
1	FID		ACIS-S-4	7.17	4760	1.000	0.783	0.229	0.026	0.040	0.000000	0.000000	2142.93	164
2	FID		ACIS-S-5	7.14	4759	1.000	-0.503	0.071	0.014	0.021	0.000000	0.000000	-1824.13	158
3	GUIDE	used	1157236832	6.54	9520	1.000	-0.171	0.182	0.105	0.205	341.989206	-58.684760	1043.44	-1686
4	GUIDE	used	1157369600	7.74	9517	1.000	-0.141	-0.245	0.114	0.180	342.617851	-59.525524	322.29	1473
5	GUIDE	used	1157370752	7.77	9517	1.000	0.120	-0.063	0.088	0.153	342.856906	-59.359453	-198.76	948
6	GUIDE	used	1157372720	7.63	9516	1.000	0.255	-0.112	0.147	0.234	342.798711	-59.097361	-234.36	-0
7	GUIDE	used	1157372936	6.81	9518	1.000	-0.053	0.264	0.089	0.157	342.420719	-58.929324	370.29	-701

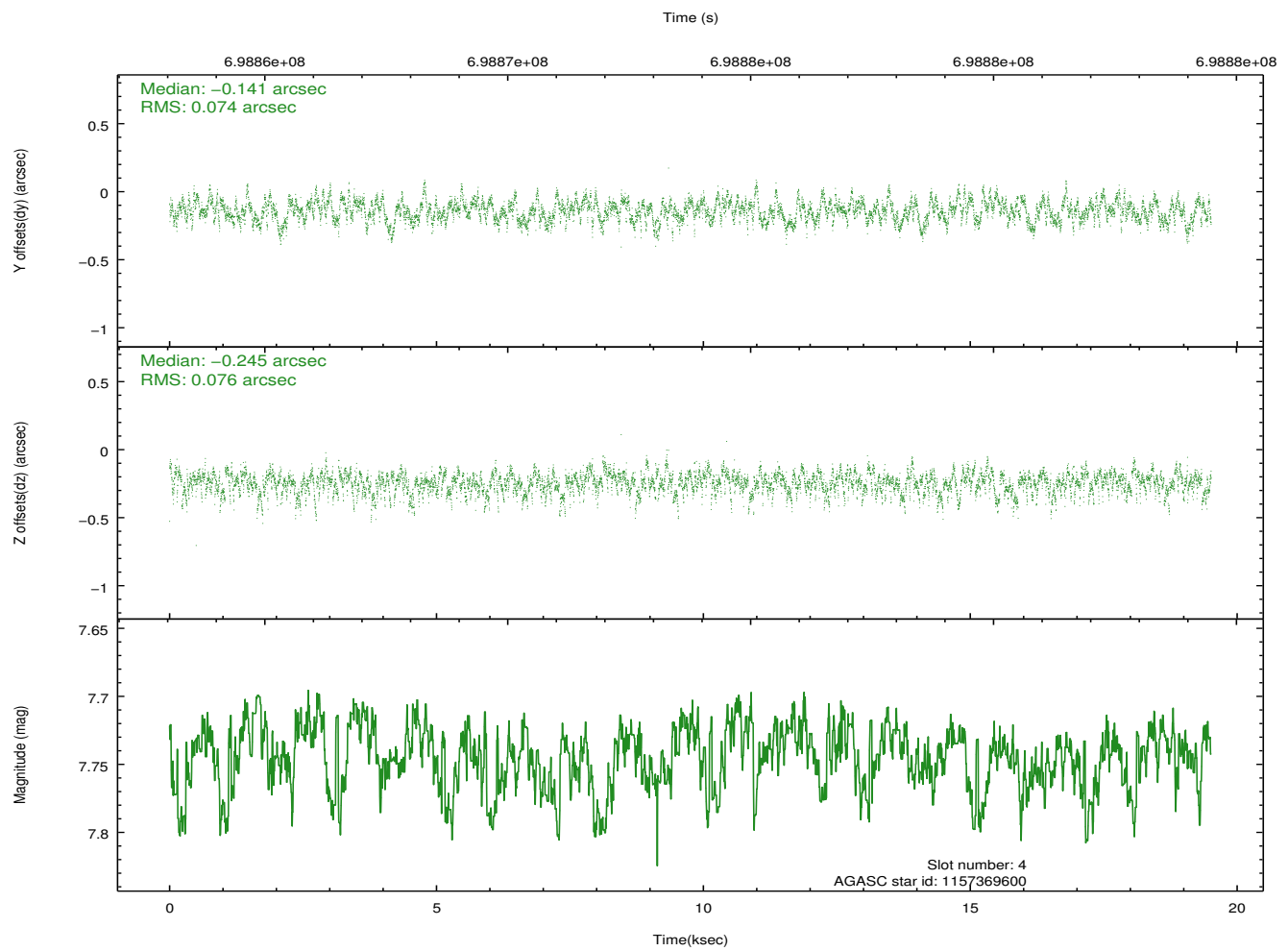
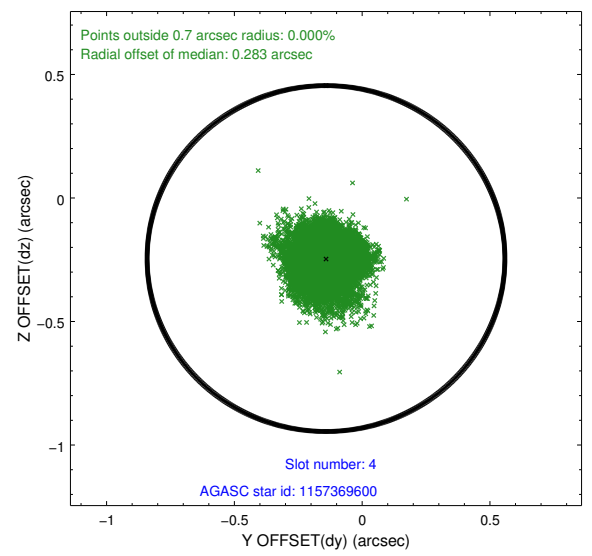
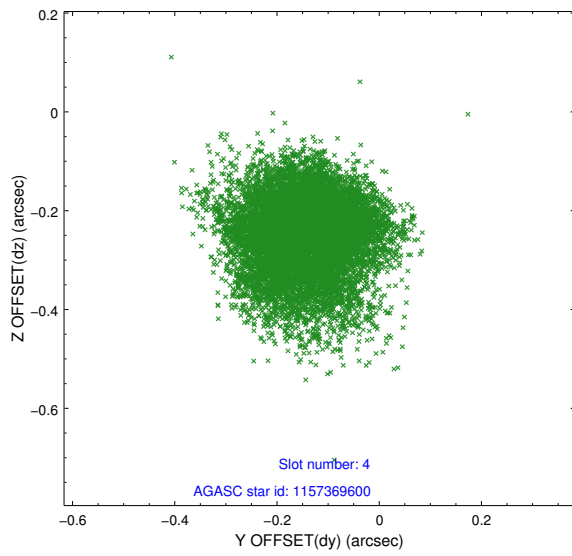
∞

2.4 Star Slots

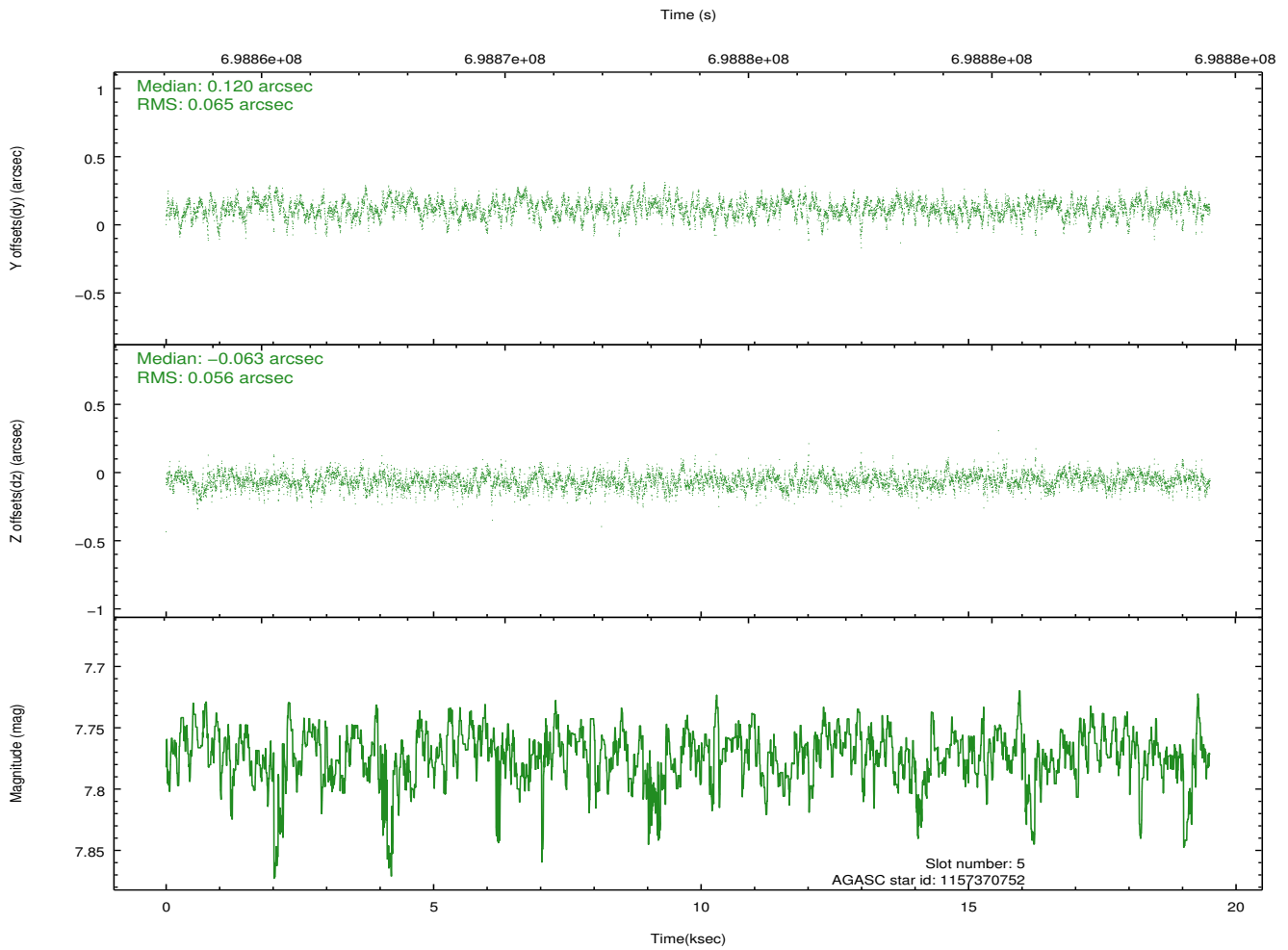
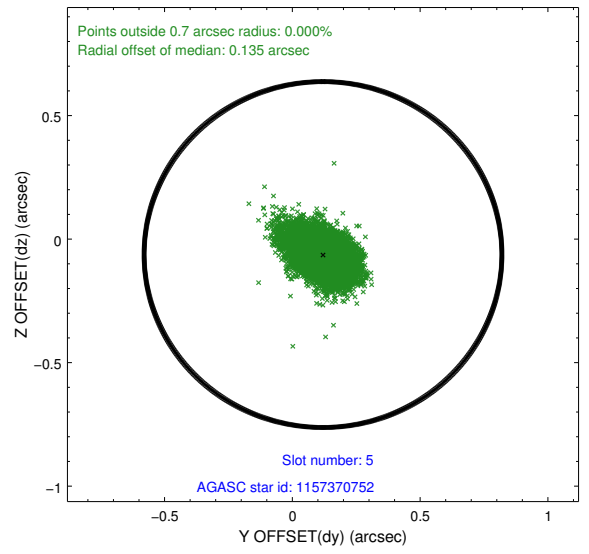
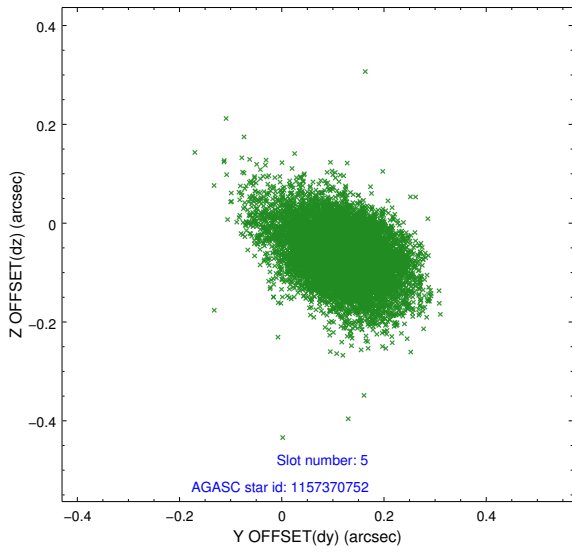
2.4.1 Slot 3



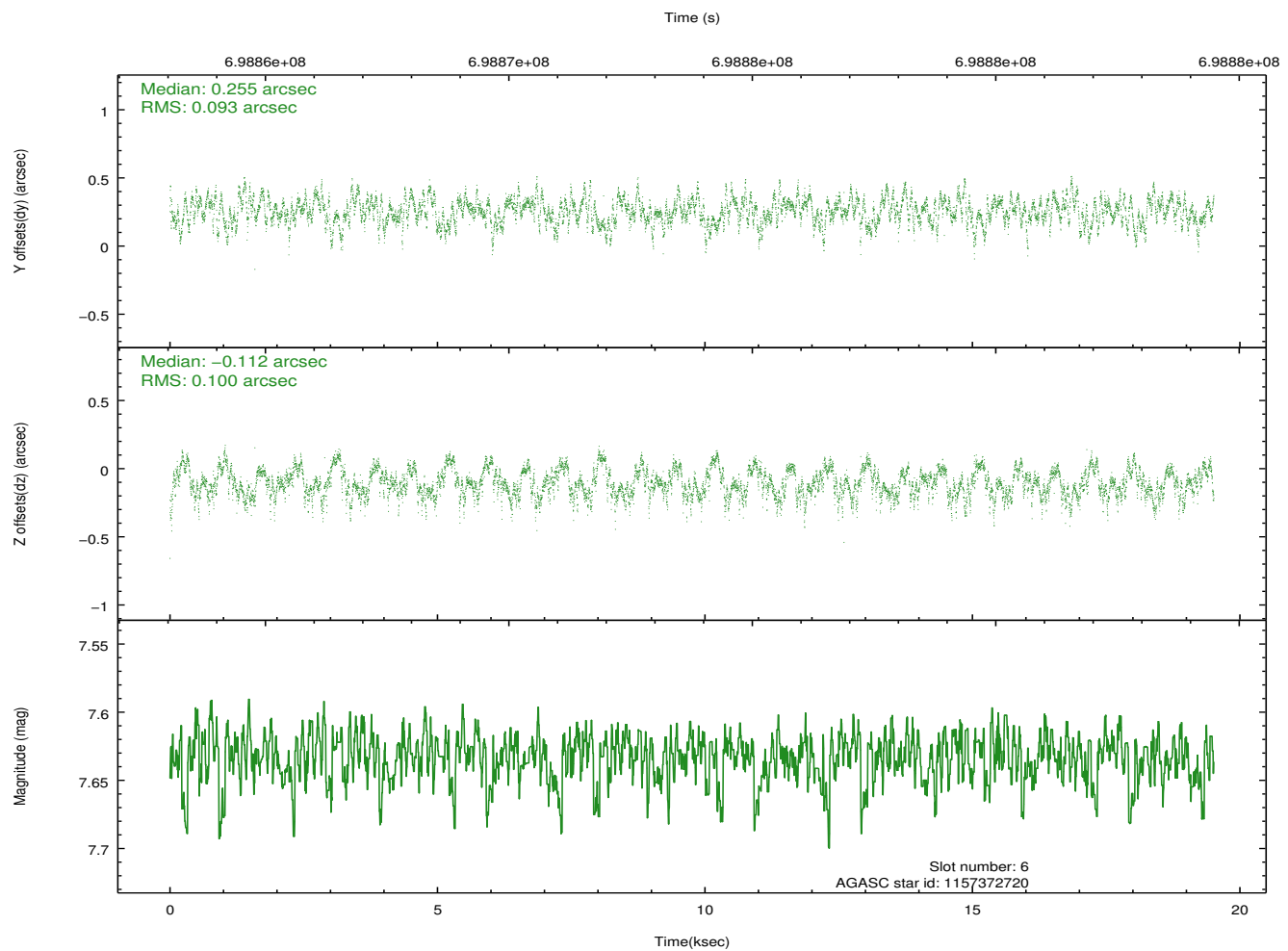
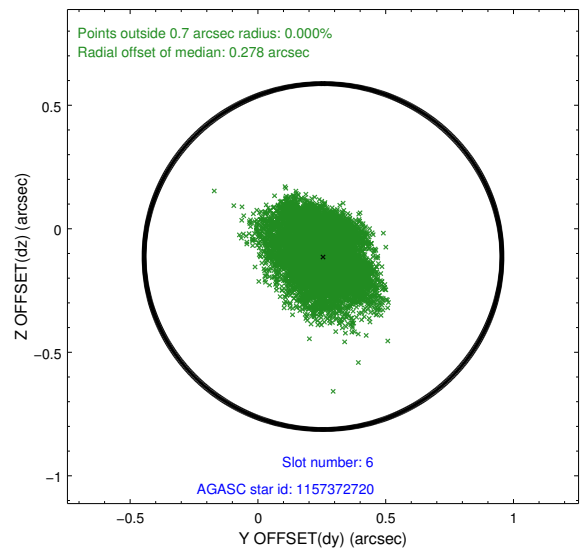
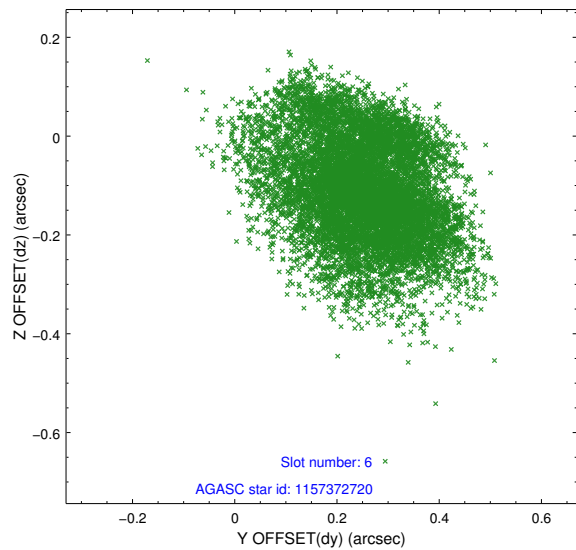
2.4.2 Slot 4



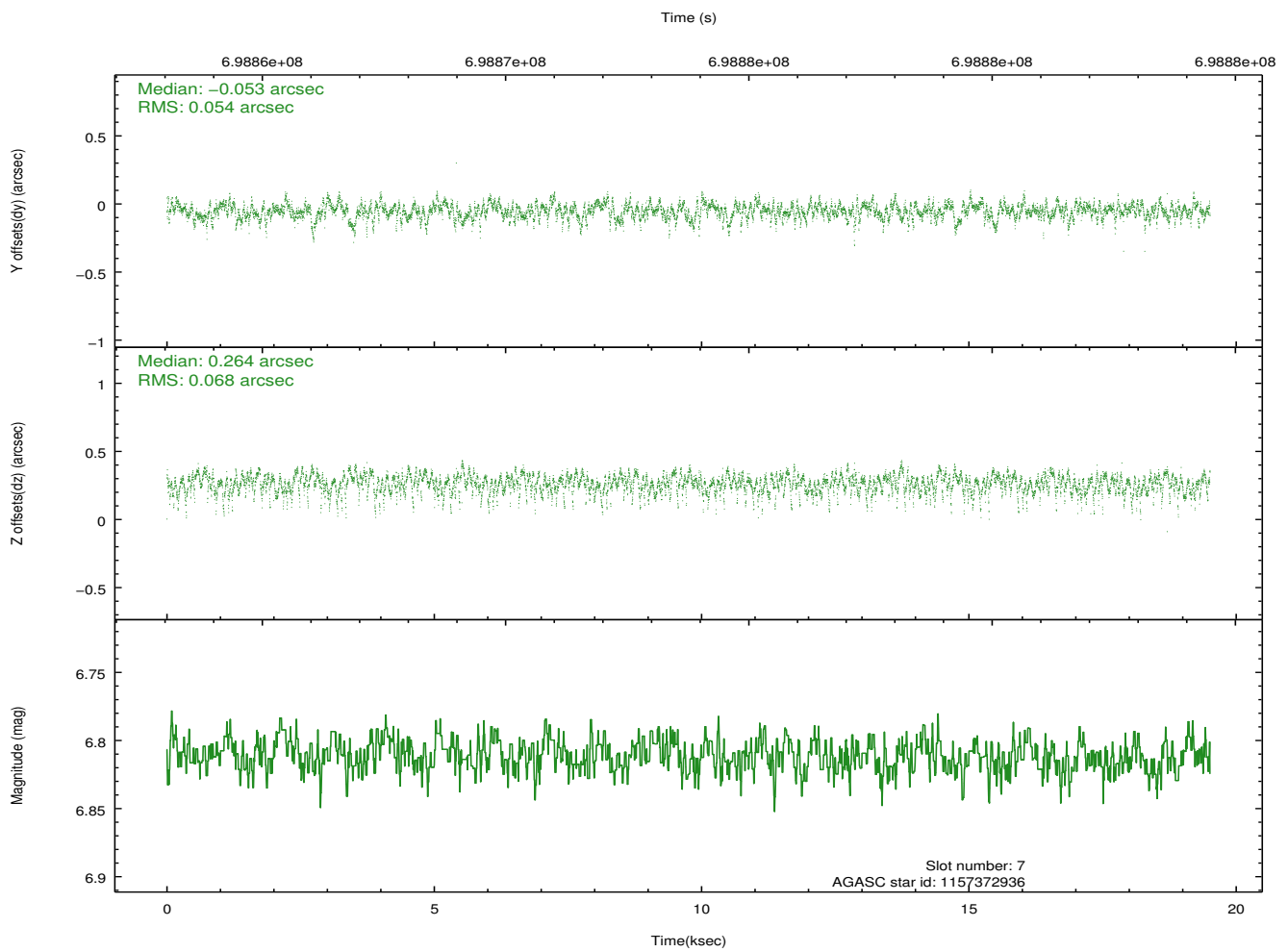
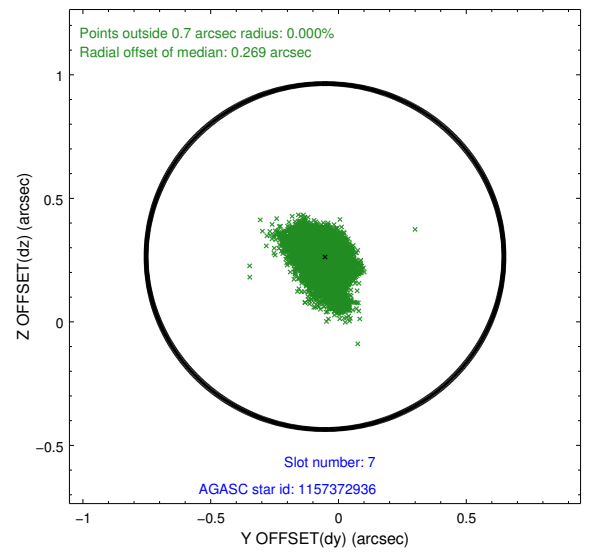
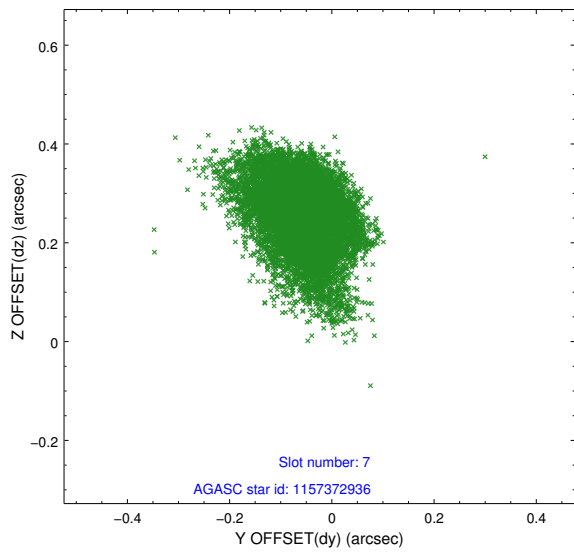
2.4.3 Slot 5



2.4.4 Slot 6

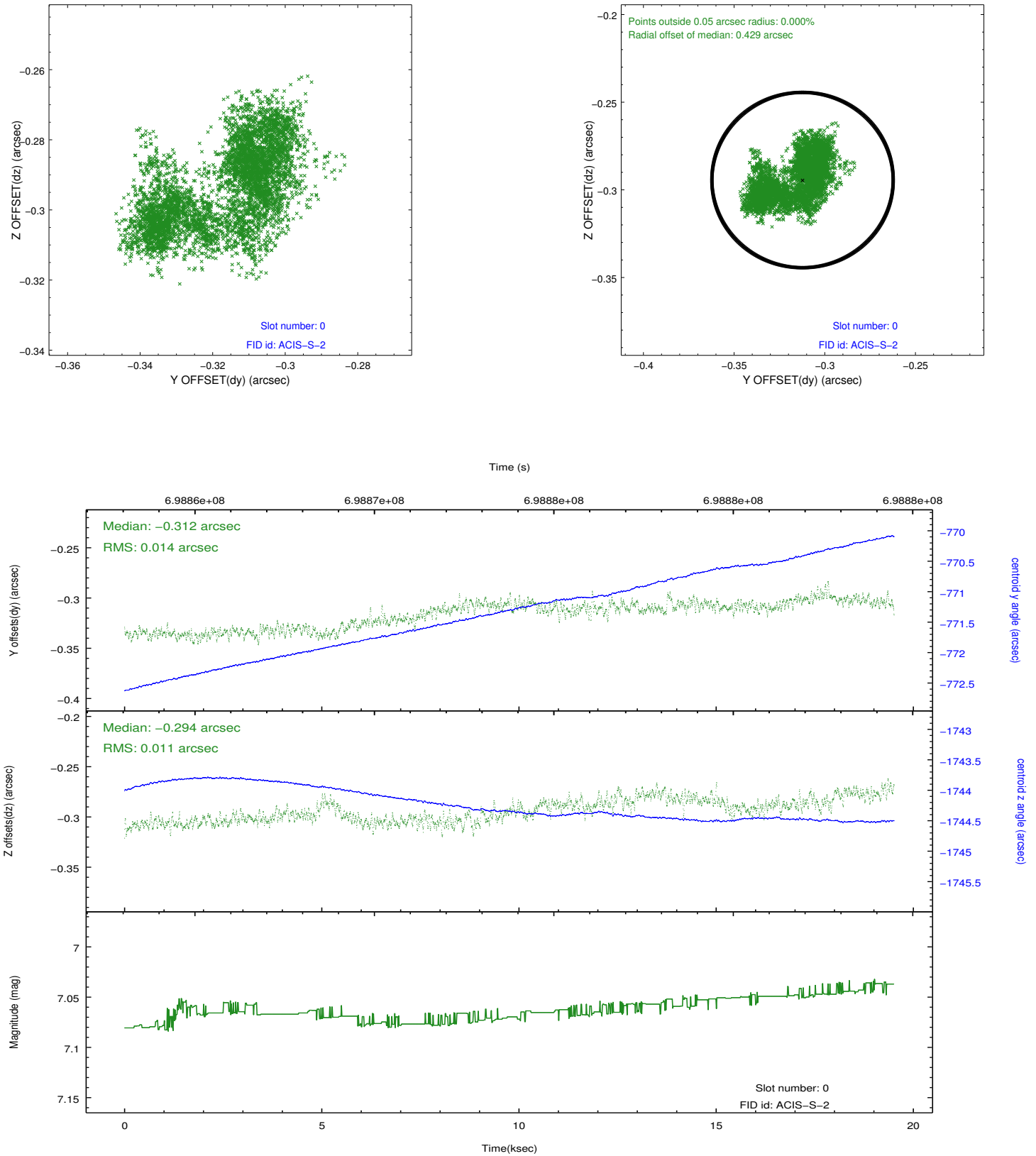


2.4.5 Slot 7

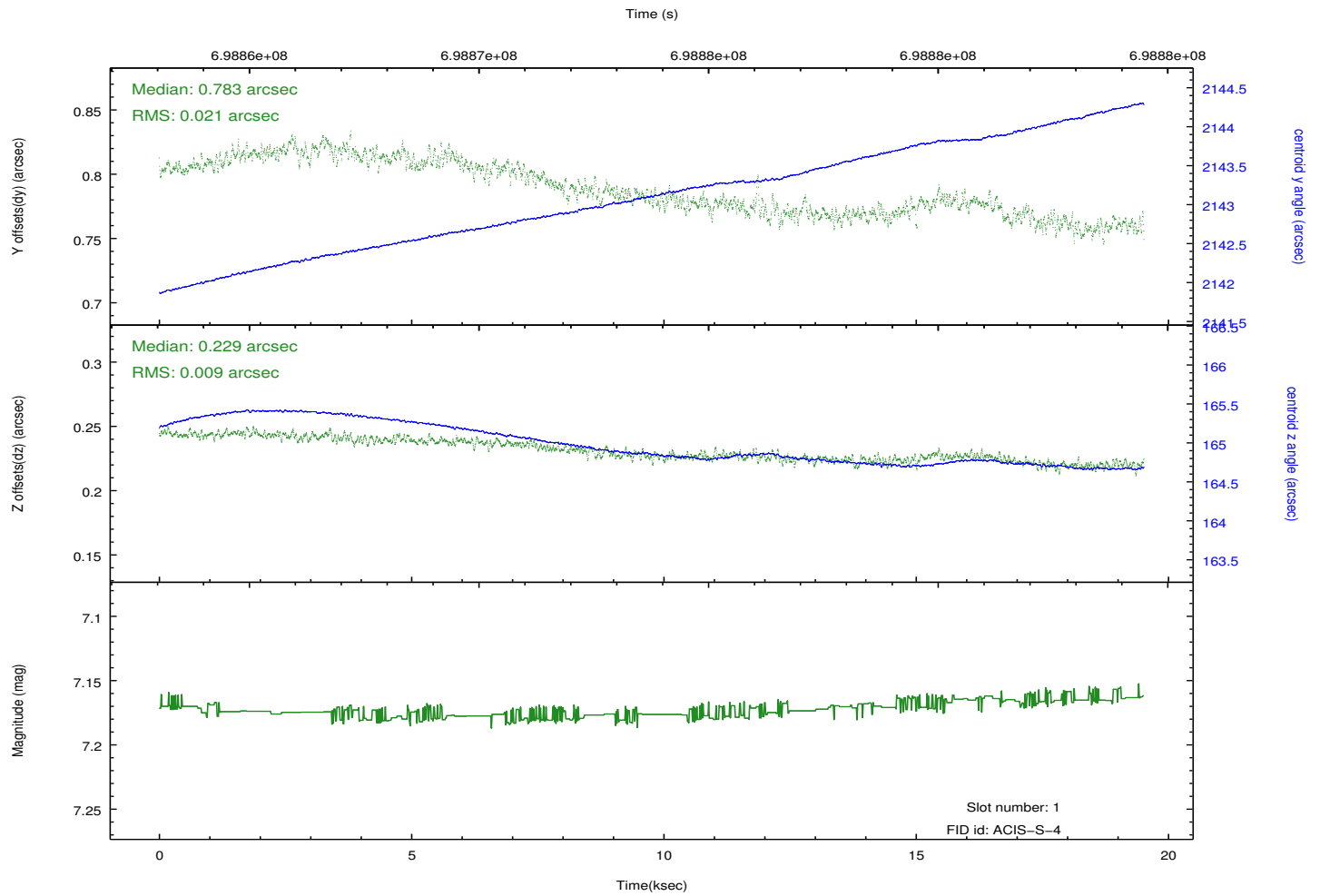
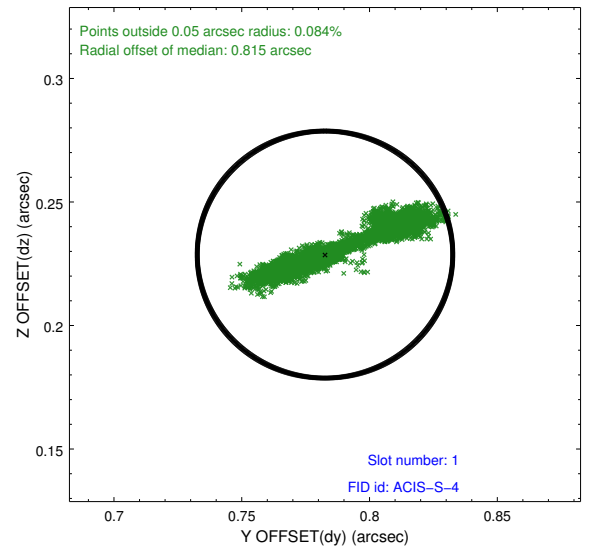
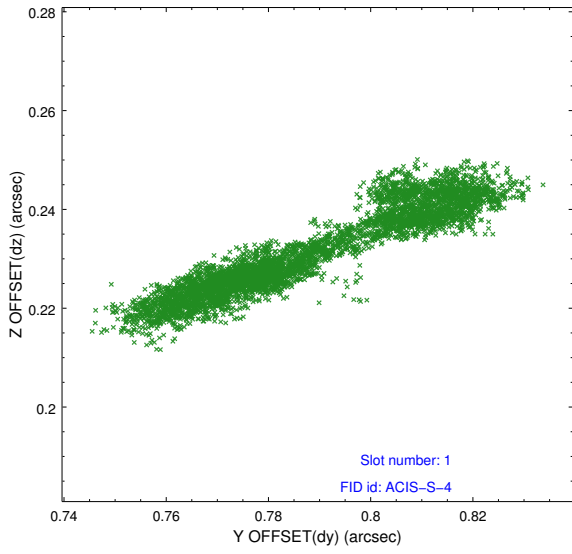


2.5 FID Slots

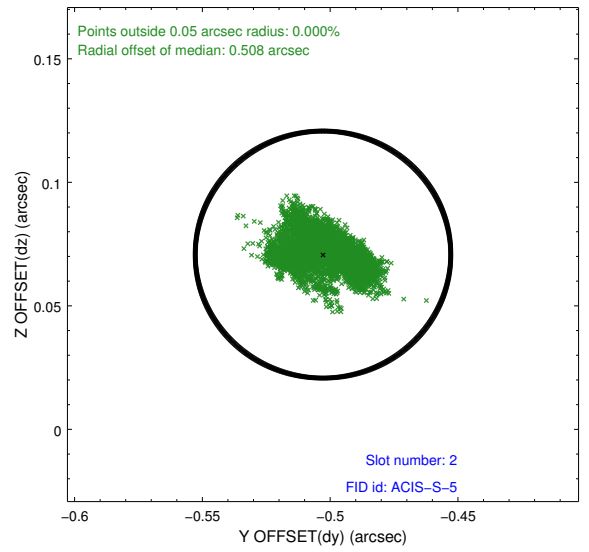
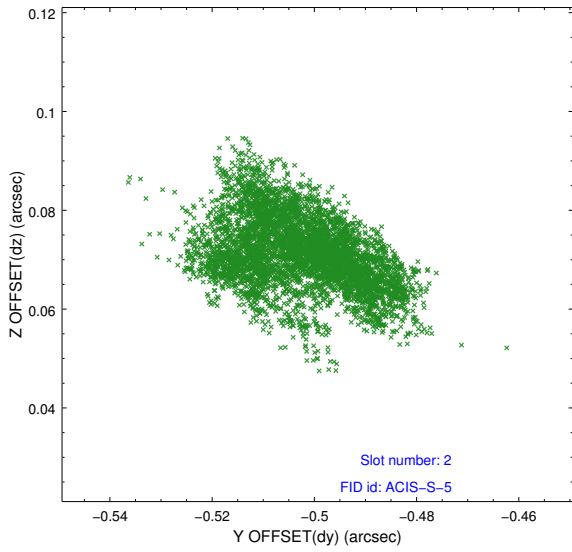
2.5.1 Slot 0



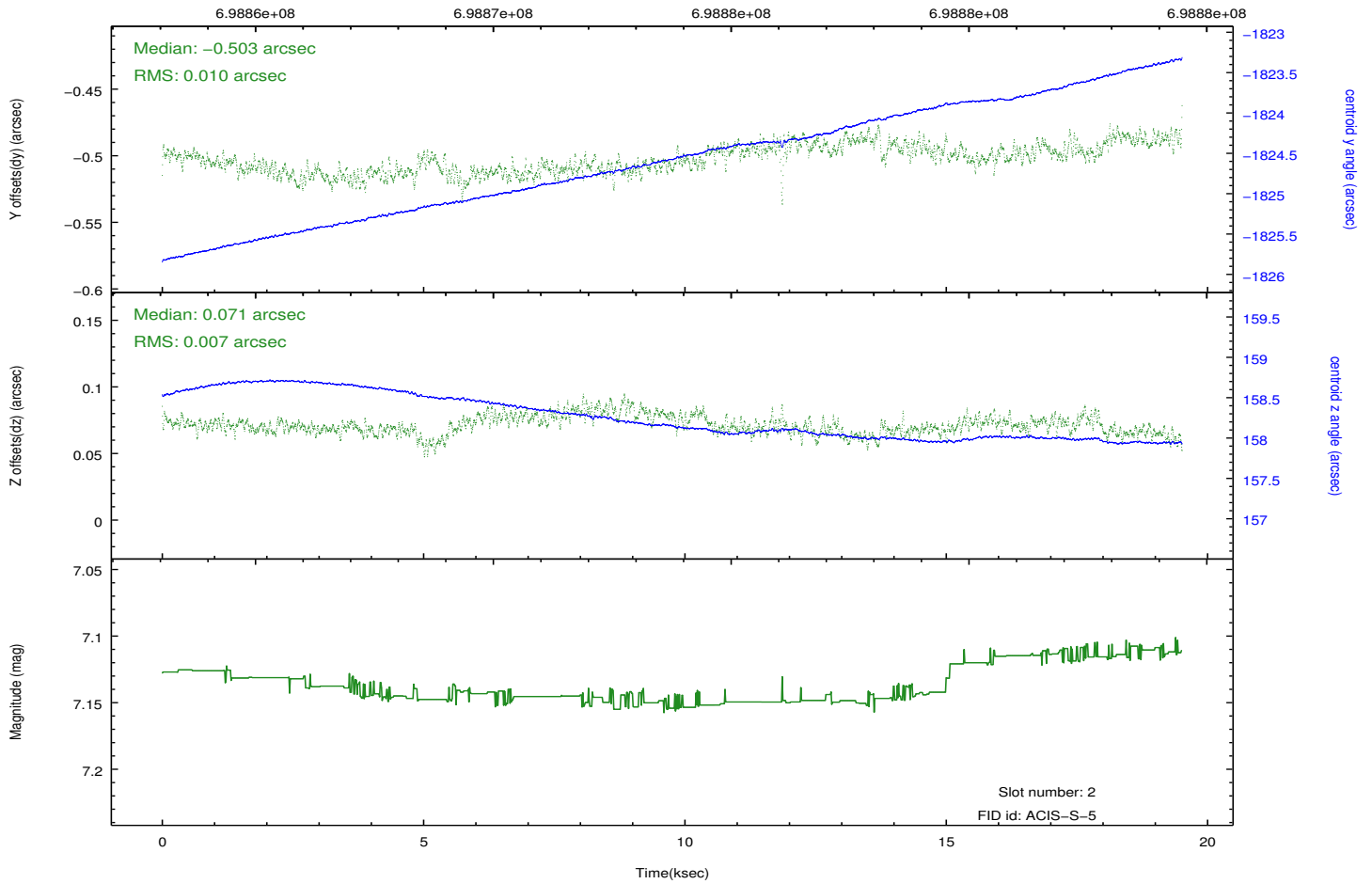
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2020.02.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.464900149822

A.2 Comments