

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20862 - L2 Version 1
Chandra X-Ray Center

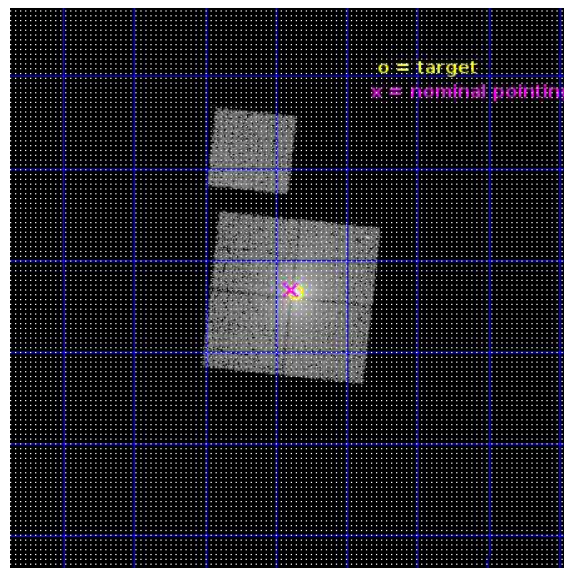
L2 Processing Date : Nov 27 2017

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

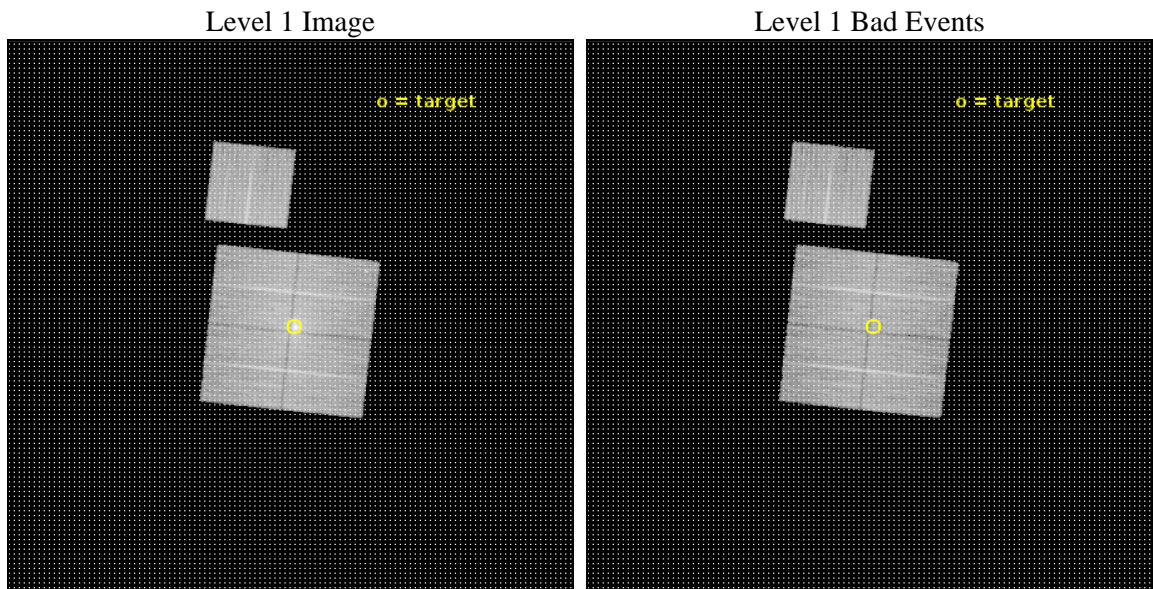
seq_num	801682	Sequence number
obs_id	20862	Observation id
title	Two Clusters with Short Central t_cool but no Signatures of Cooling Gas - Why Hasn't Cooling Commenced?	Proposal title
observer	Michael Hogan	Principal investigator
object	EXO0422-086	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	66.464167	Observer's specified target RA [deg]
dec_targ	-8.559611	Observer's specified target Dec [deg]
ra_nom	66.472640562504	Nominal RA [deg]
dec_nom	-8.5541468553296	Nominal Dec [deg]
roll_nom	6.2099553785243	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20065.975054383	Sum of GTIs [s]
livetime	19803.798317942	Livetime [s]
ontime0	20068.992994547	Sum of GTIs [s]
ontime1	20065.893044233	Sum of GTIs [s]
ontime2	20062.793024182	Sum of GTIs [s]
ontime3	20065.975054383	Sum of GTIs [s]
ontime6	20068.951954484	Sum of GTIs [s]
l2events	100897	Number of level 2 events



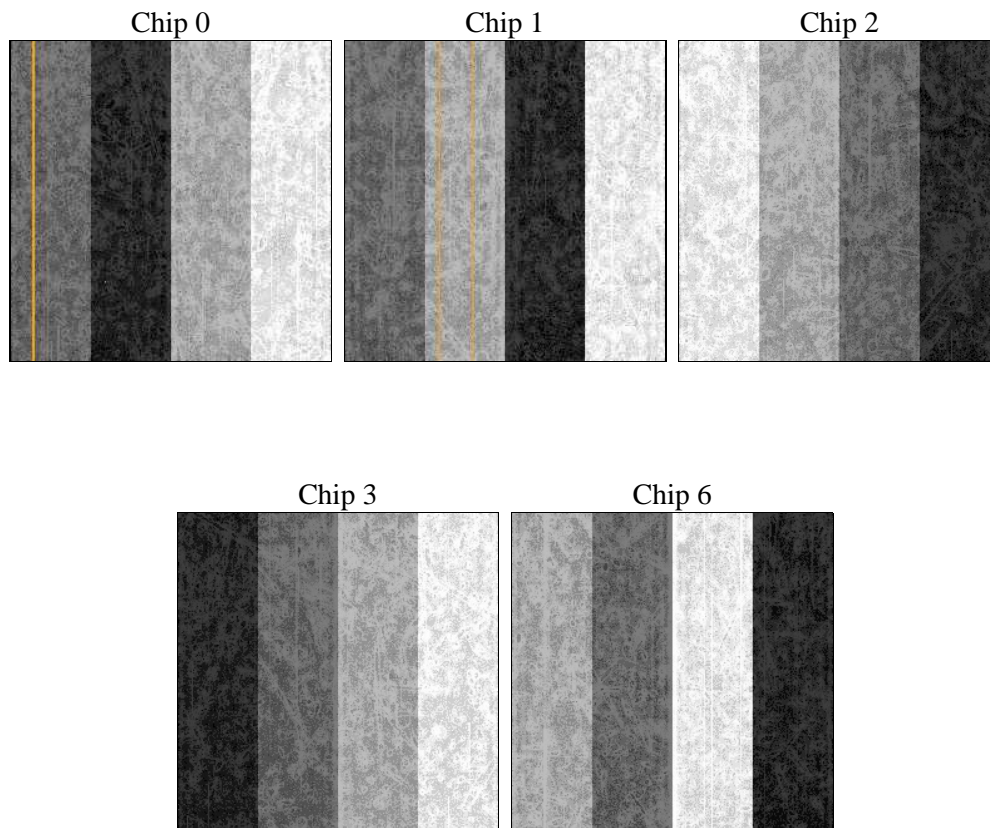
2 OBI

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	10.6	Processing system revision	ontime	20065.975054383	Sum of GTIs [s]
caldbver	4.7.6	 	ontime0	20068.992994547	Sum of GTIs [s]
date	2017-11-28T04:09:48	Date and time of file creation	ontime1	20065.893044233	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	20062.793024182	Sum of GTIs [s]
			ontime3	20065.975054383	Sum of GTIs [s]
			ontime6	20068.951954484	Sum of GTIs [s]
			l1events	693097	Number of level 1 events

2.1.4 Events

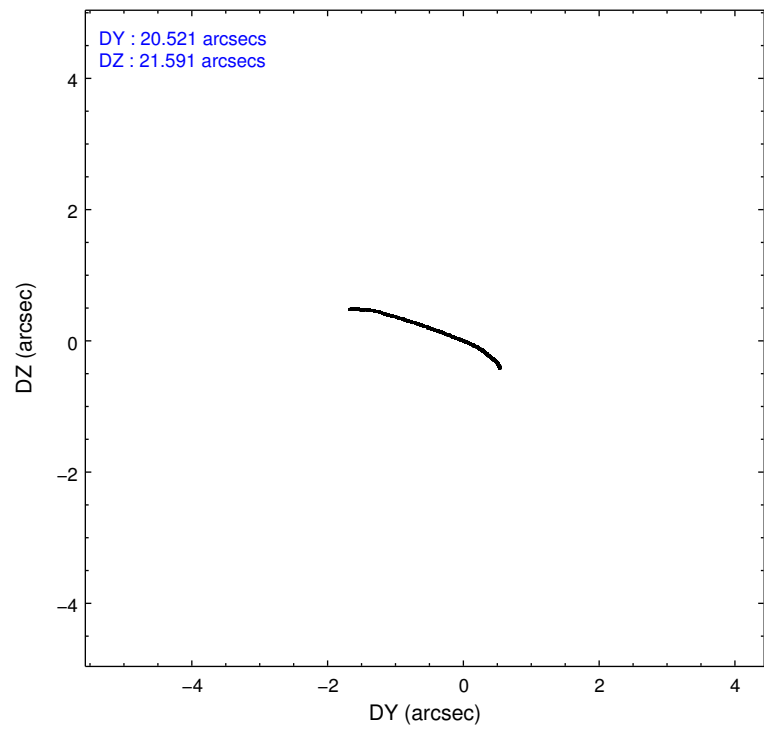
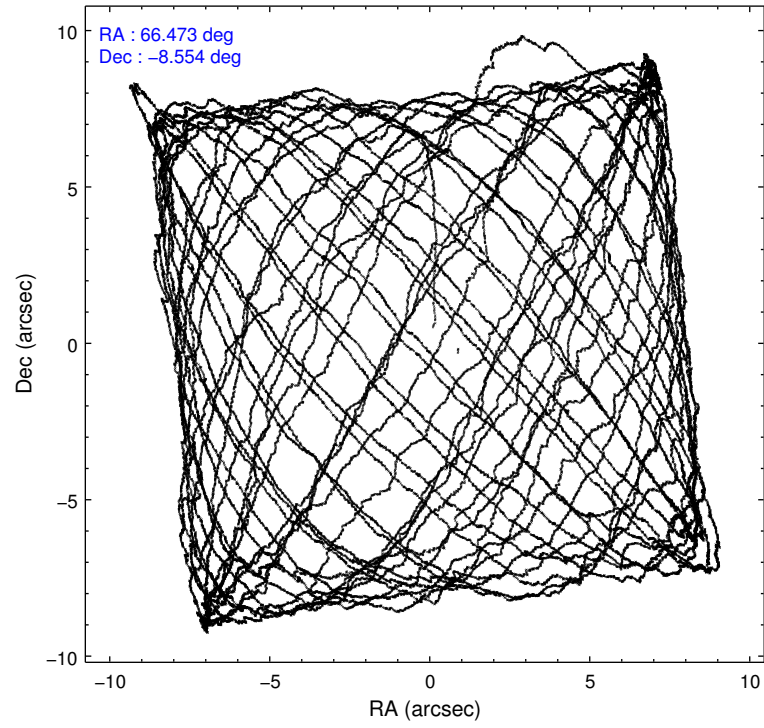
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	126374	135067	143855	152247	135554
rejected events	106382	111570	122254	117552	120241
rejected %	84%	82%	84%	77%	88%

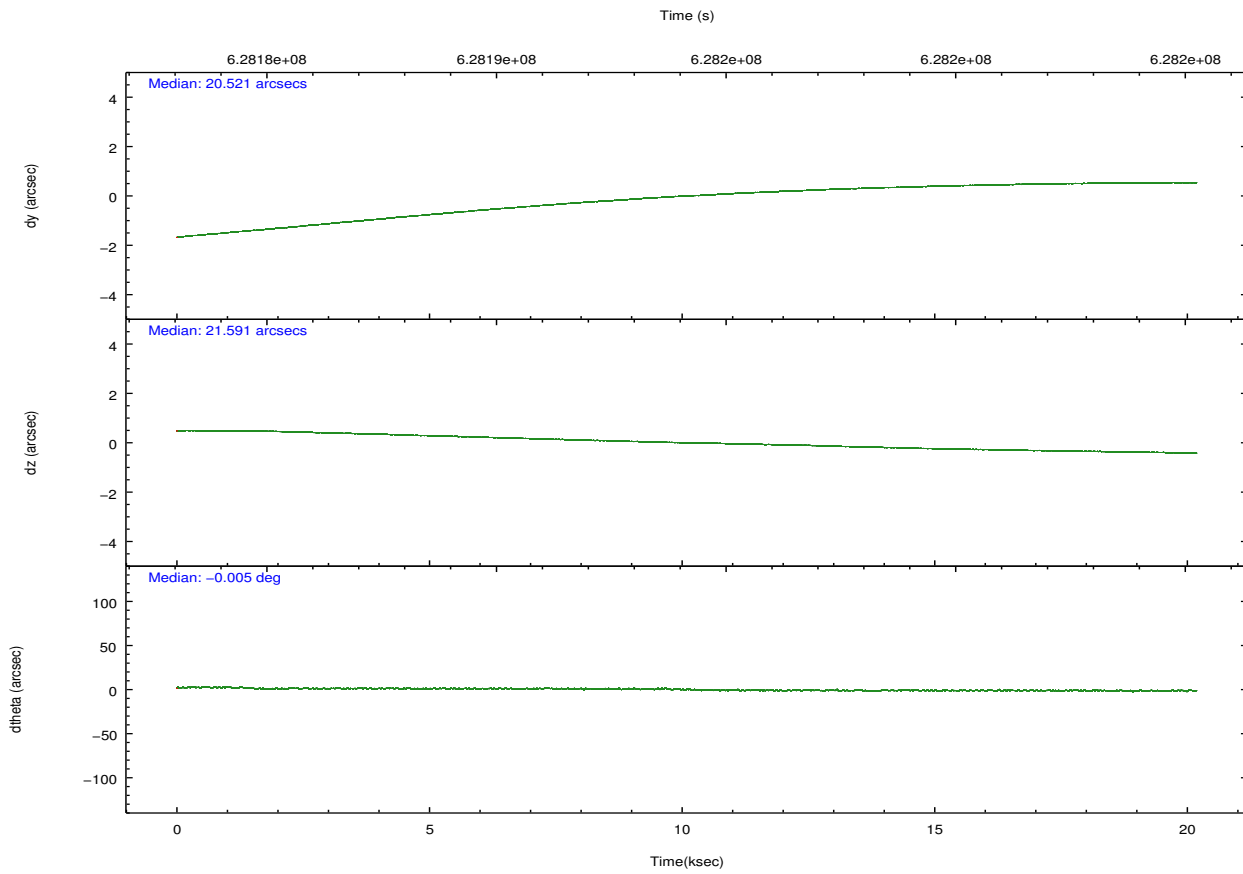
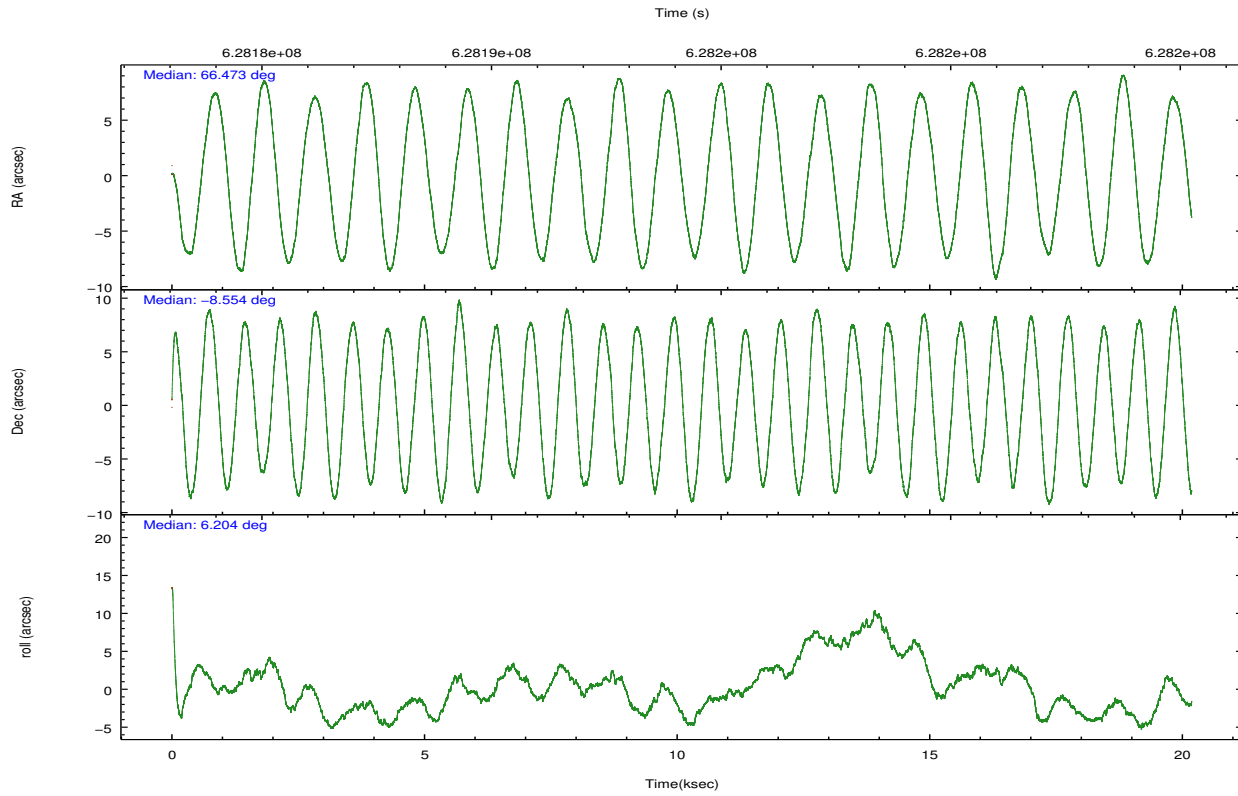
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9321	11731	11067	22086	5427
	7%	8%	7%	14%	4%
grade 1 events	85	114	105	169	75
	0%	0%	0%	0%	0%
grade 2 events	4400	4718	4349	5235	3545
	3%	3%	3%	3%	2%
grade 3 events	1662	1736	1573	2115	1477
	1%	1%	1%	1%	1%
grade 4 events	1566	1761	1692	2022	1522
	1%	1%	1%	1%	1%
grade 5 events	4985	5267	4746	5653	5495
	3%	3%	3%	3%	4%
grade 6 events	3050	3559	2926	3245	3345
	2%	2%	2%	2%	2%
grade 7 events	101305	106181	117397	111722	114668
	80%	78%	81%	73%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	66.450187	66.47264056250428	CCD I2 on	Y	Y
[deg] Pointing Dec	-8.570535	-8.554146855329643	CCD I3 on	Y	Y
[deg] Pointing Roll	5.997922	6.209955378524276	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	628184212.184000	628183164.0276	CCD S5 on	N	N
Observation start date	2017-11-27T15:35:43	2017-11-27T15:19:24	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	628204212.184000	628205018.05388	On-chip summing requested	N	N
Observation end date	2017-11-27T21:09:03	2017-11-27T21:23:38	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





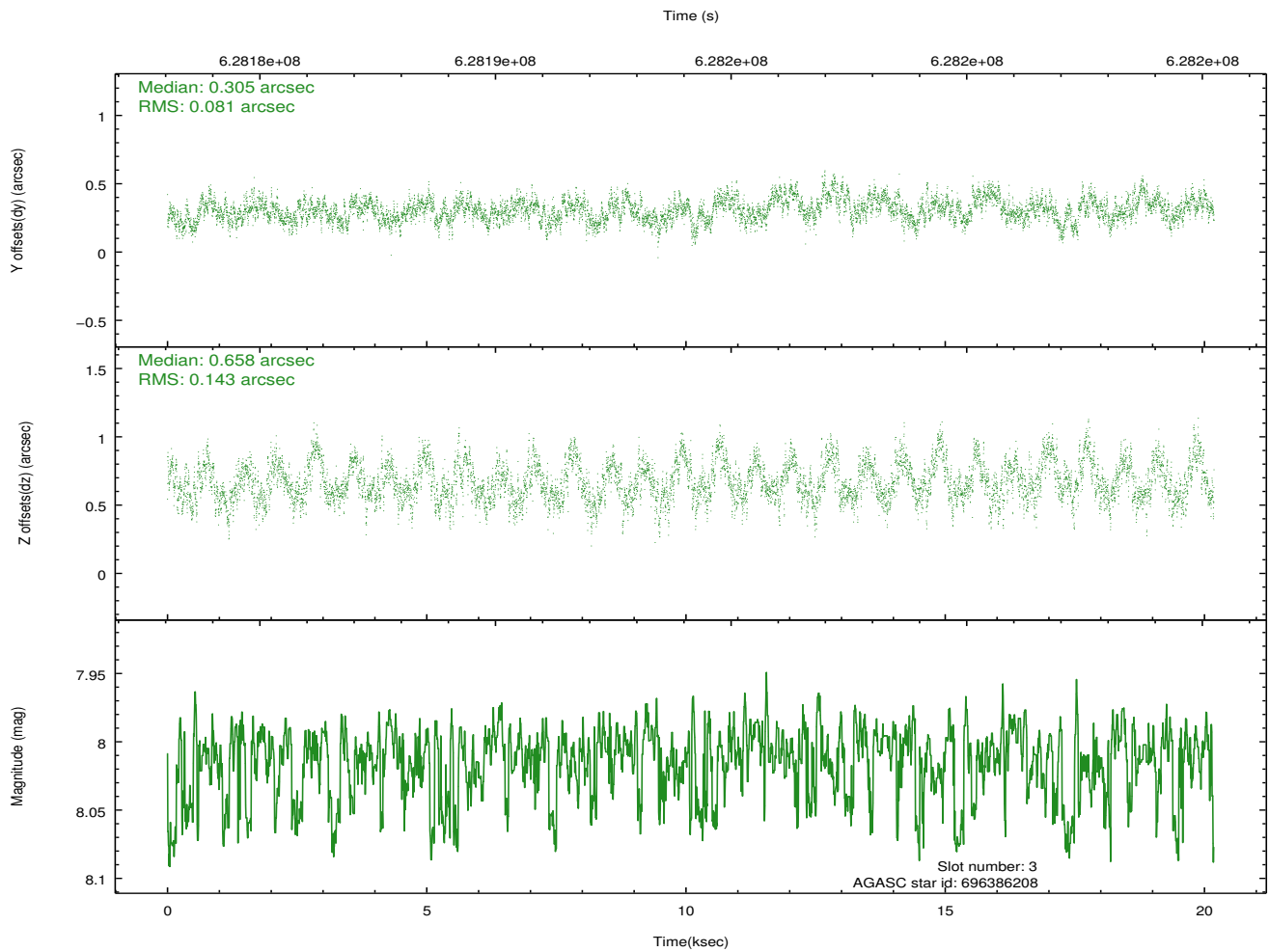
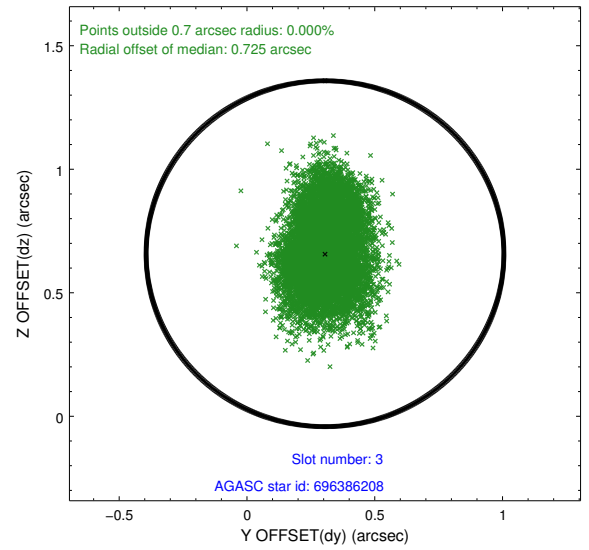
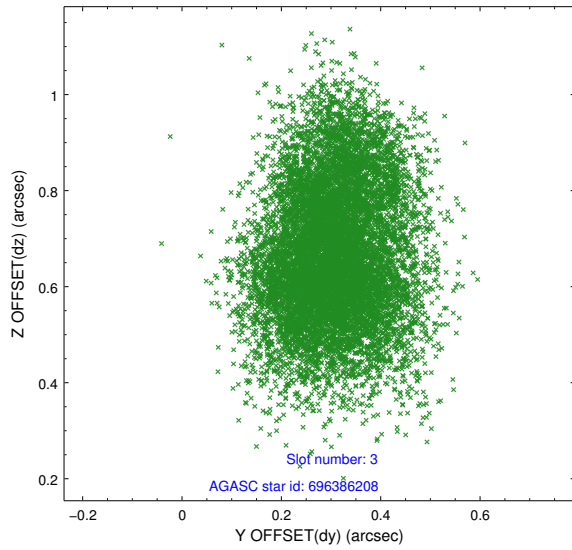
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	4924	0.080	-0.064	0.013	0.024	0.000000	0.000000	919.13	-845.40
1	FID		ACIS-I-5	7.11	4924	-0.403	0.022	0.016	0.025	0.000000	0.000000	-1829.47	1051.92
2	FID		ACIS-I-6	7.13	4923	0.231	0.113	0.019	0.028	0.000000	0.000000	384.48	1696.85
3	GUIDE	used	696386208	8.01	9841	0.305	0.658	0.174	0.289	66.191076	-9.223516	-1160.53	-2241.39
4	GUIDE	used	696387208	9.03	9841	-0.049	-0.196	0.127	0.221	66.200801	-8.036400	-683.13	2004.60
5	GUIDE	used	696518688	9.27	9832	0.018	-0.200	0.199	0.312	66.849427	-8.392964	1481.21	486.74
6	GUIDE	used	696538136	8.94	9833	0.131	0.075	0.157	0.257	66.785429	-8.898543	1063.31	-1299.13
7	GUIDE	used	696522872	8.03	9840	-0.423	-0.343	0.142	0.236	66.882030	-8.191582	1672.78	1194.87

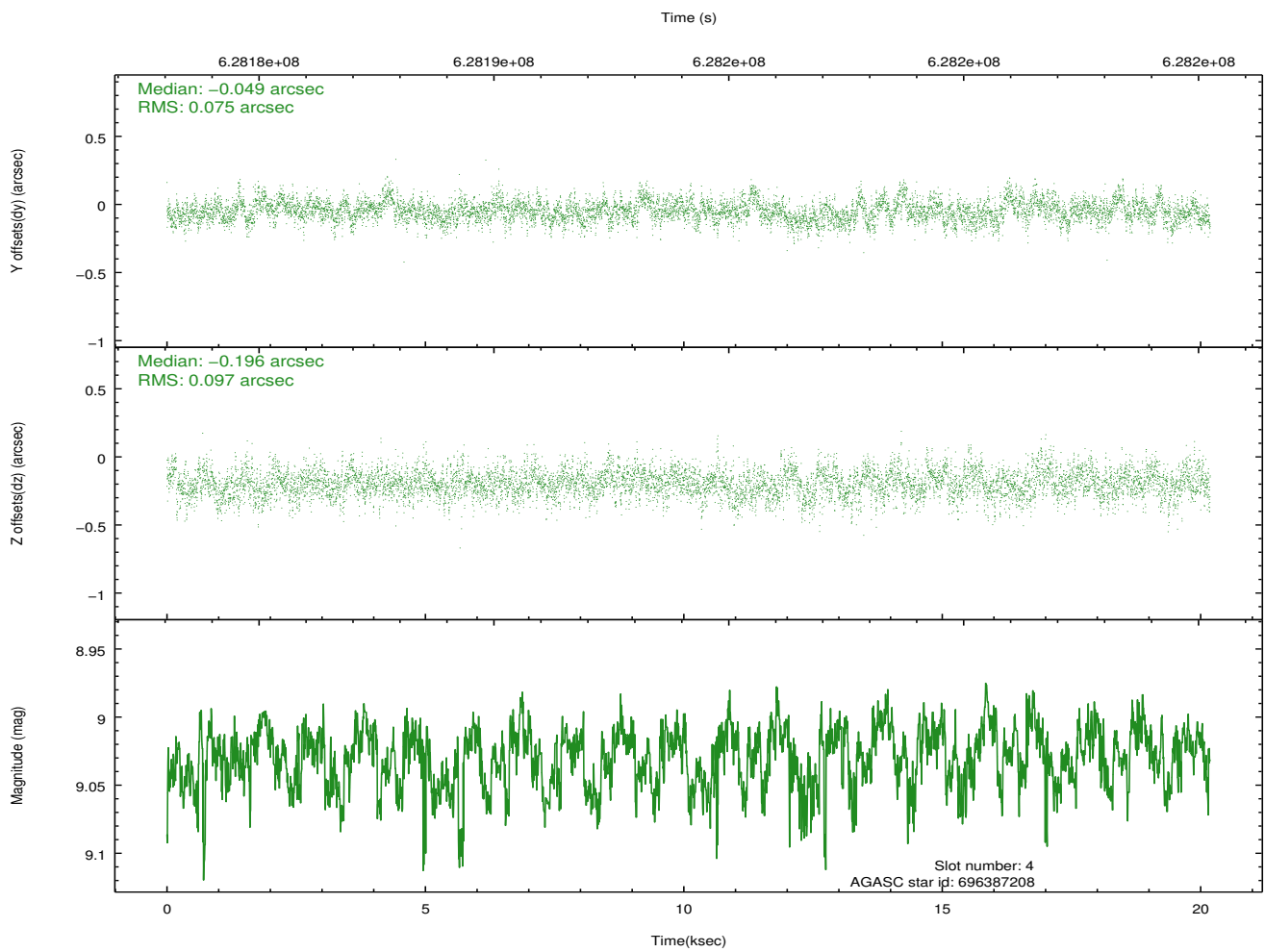
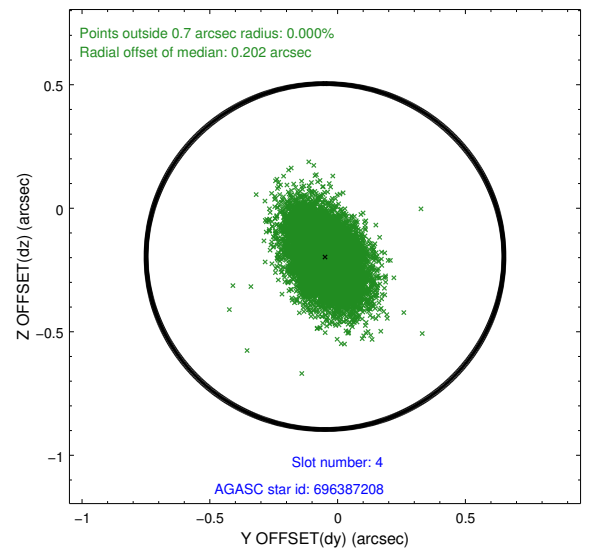
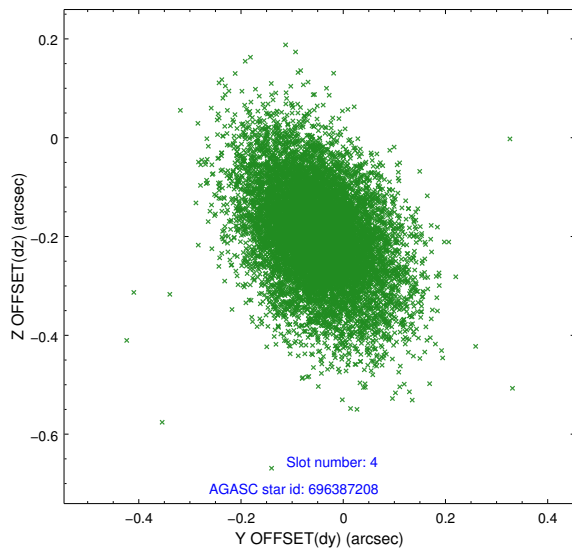
∞

2.4 Star Slots

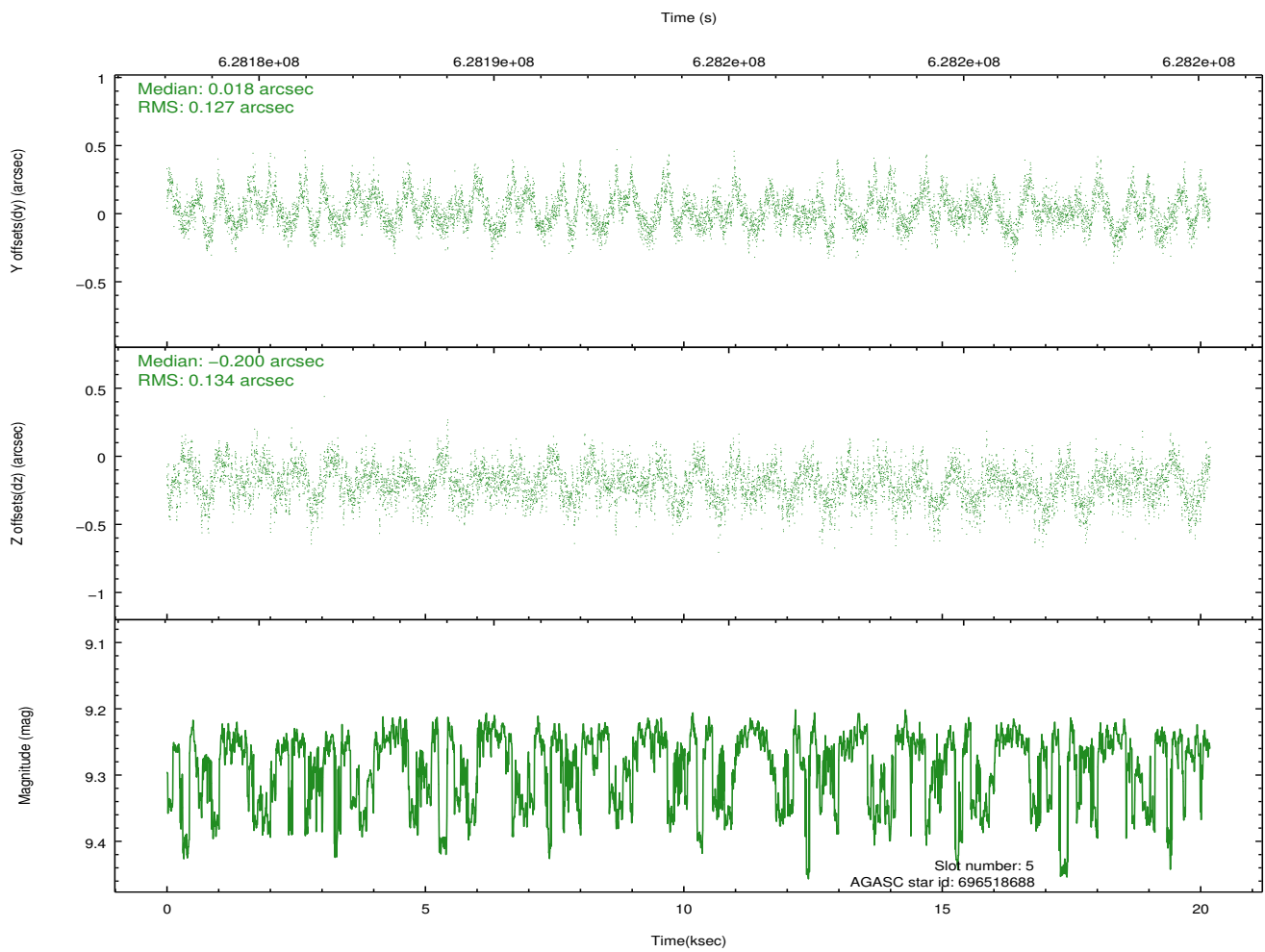
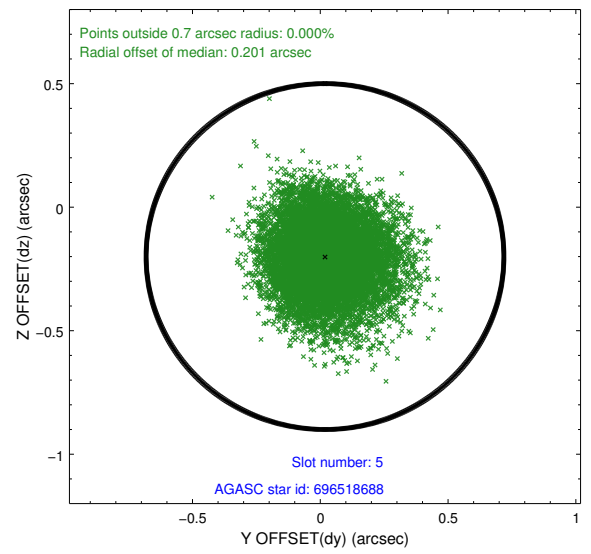
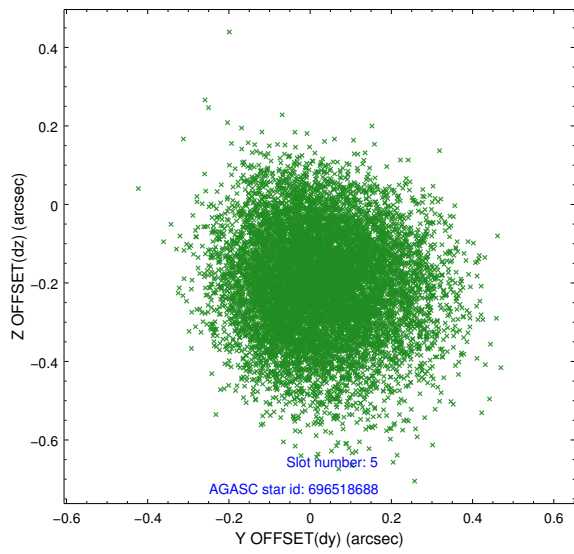
2.4.1 Slot 3



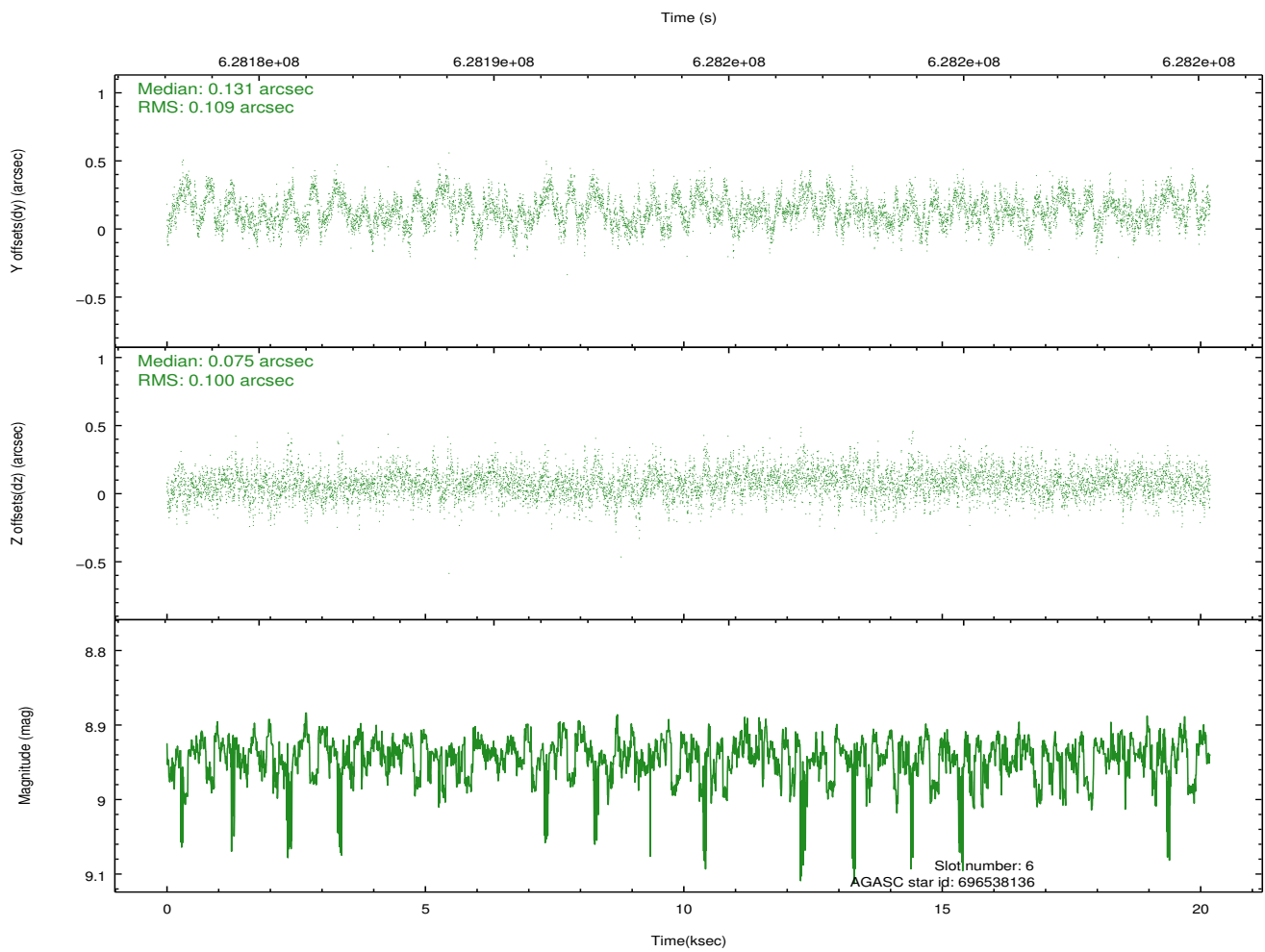
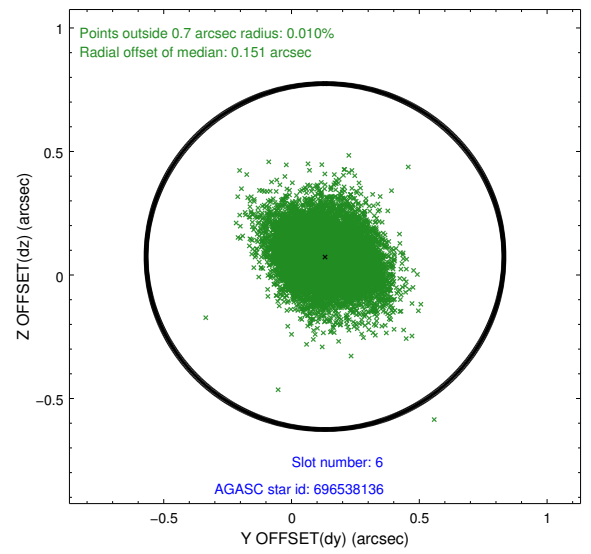
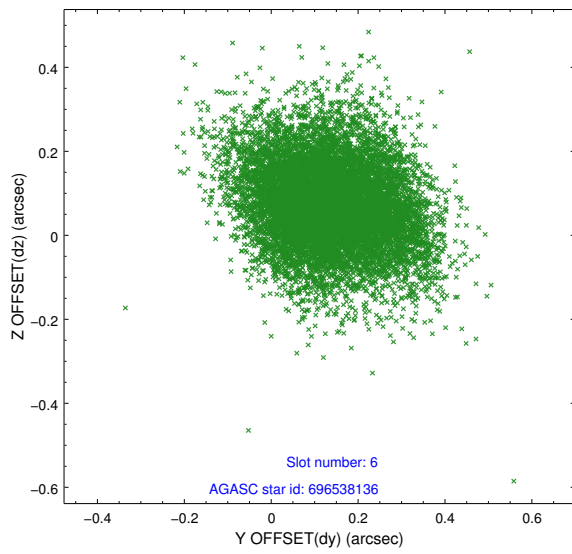
2.4.2 Slot 4



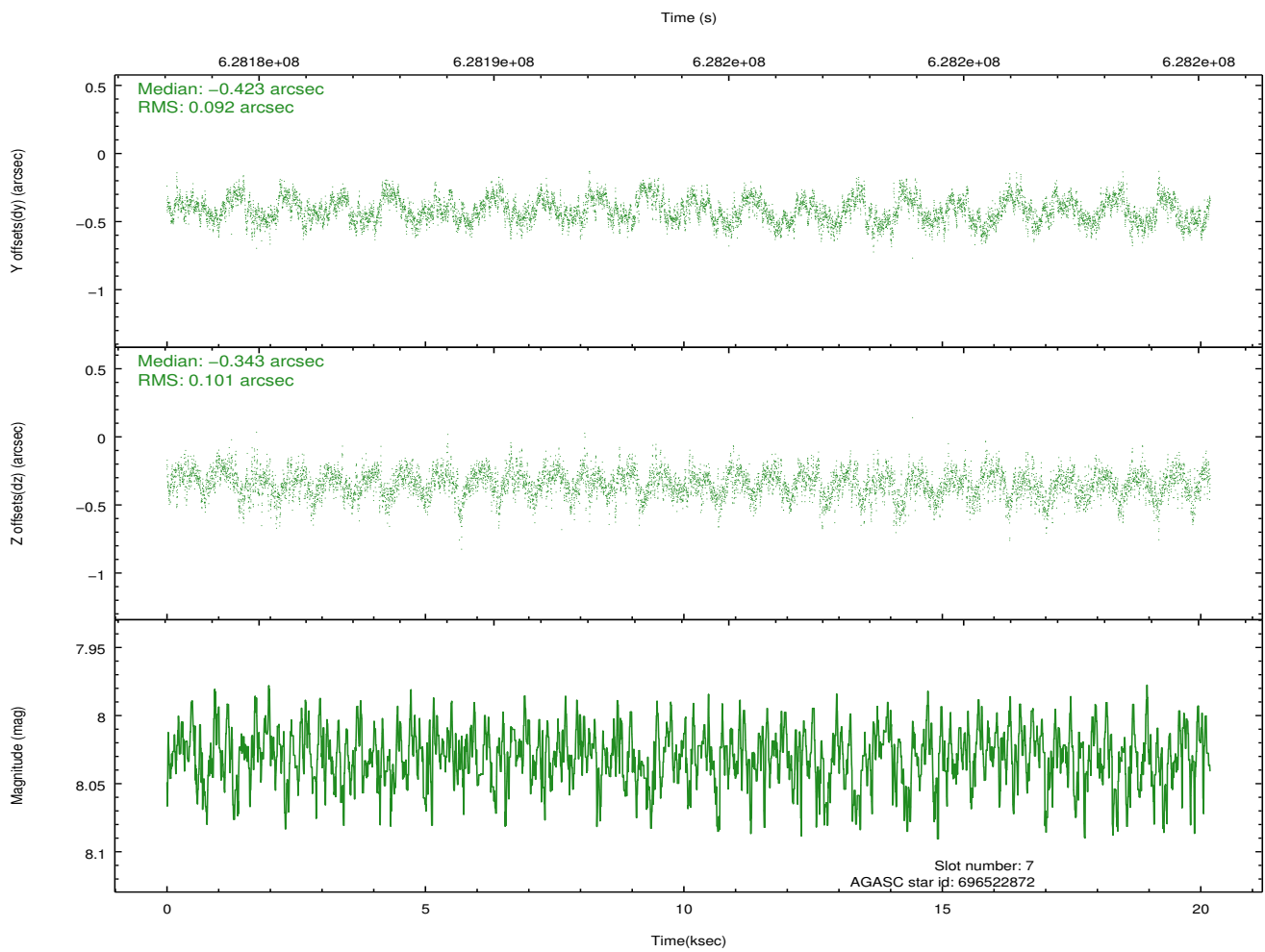
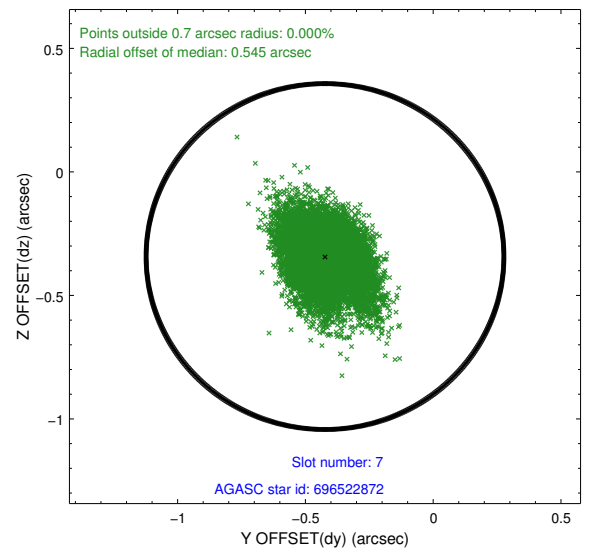
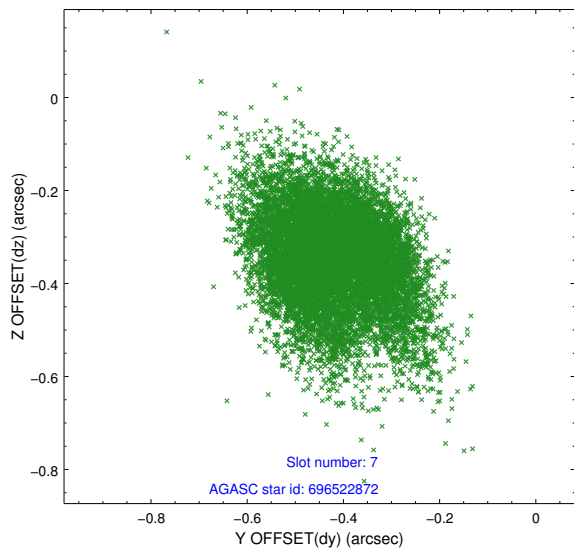
2.4.3 Slot 5



2.4.4 Slot 6

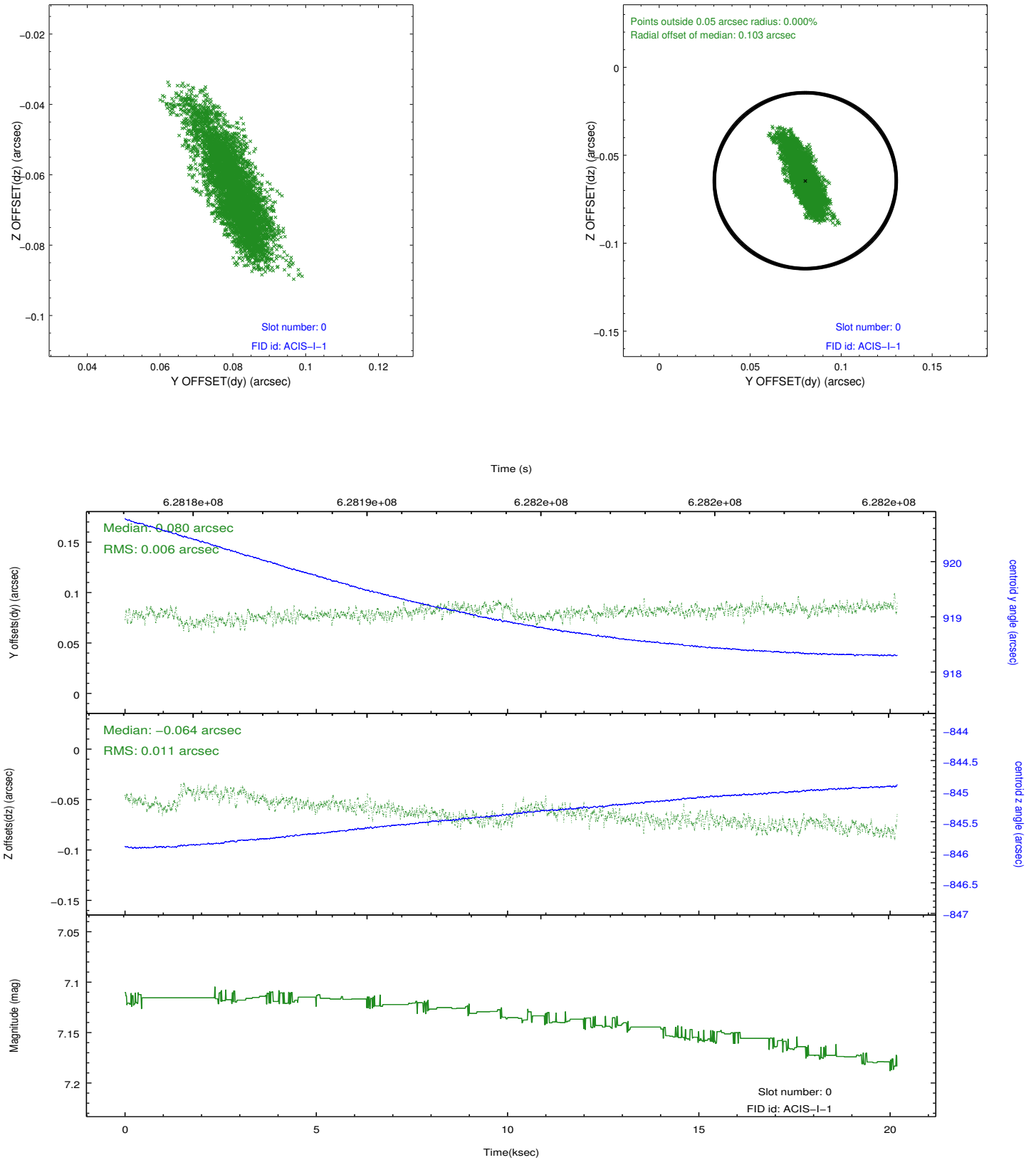


2.4.5 Slot 7

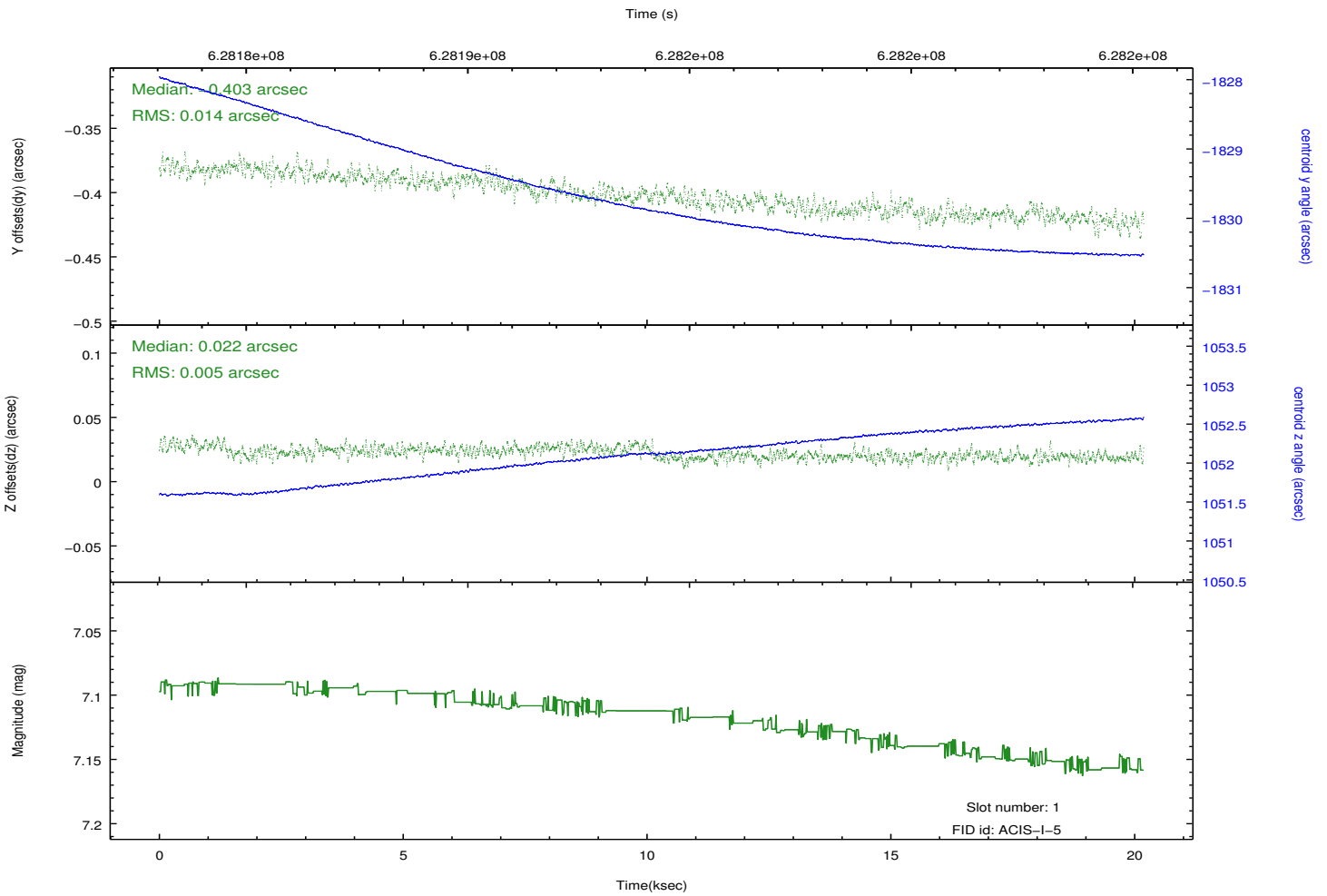
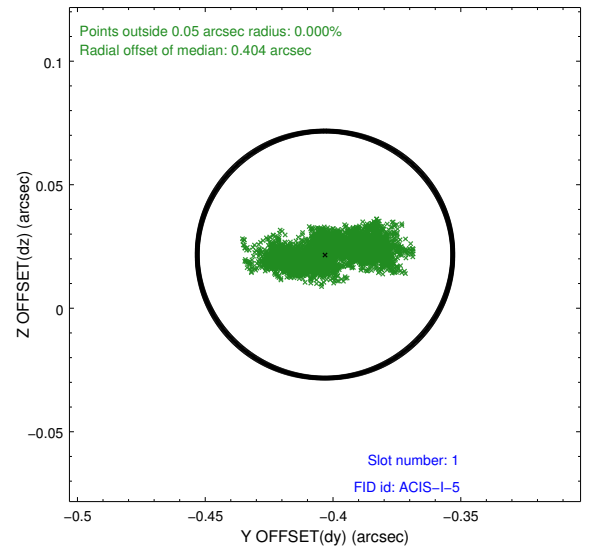
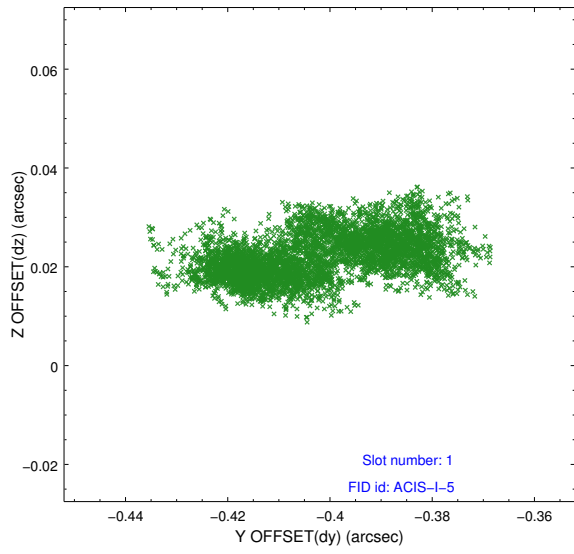


2.5 FID Slots

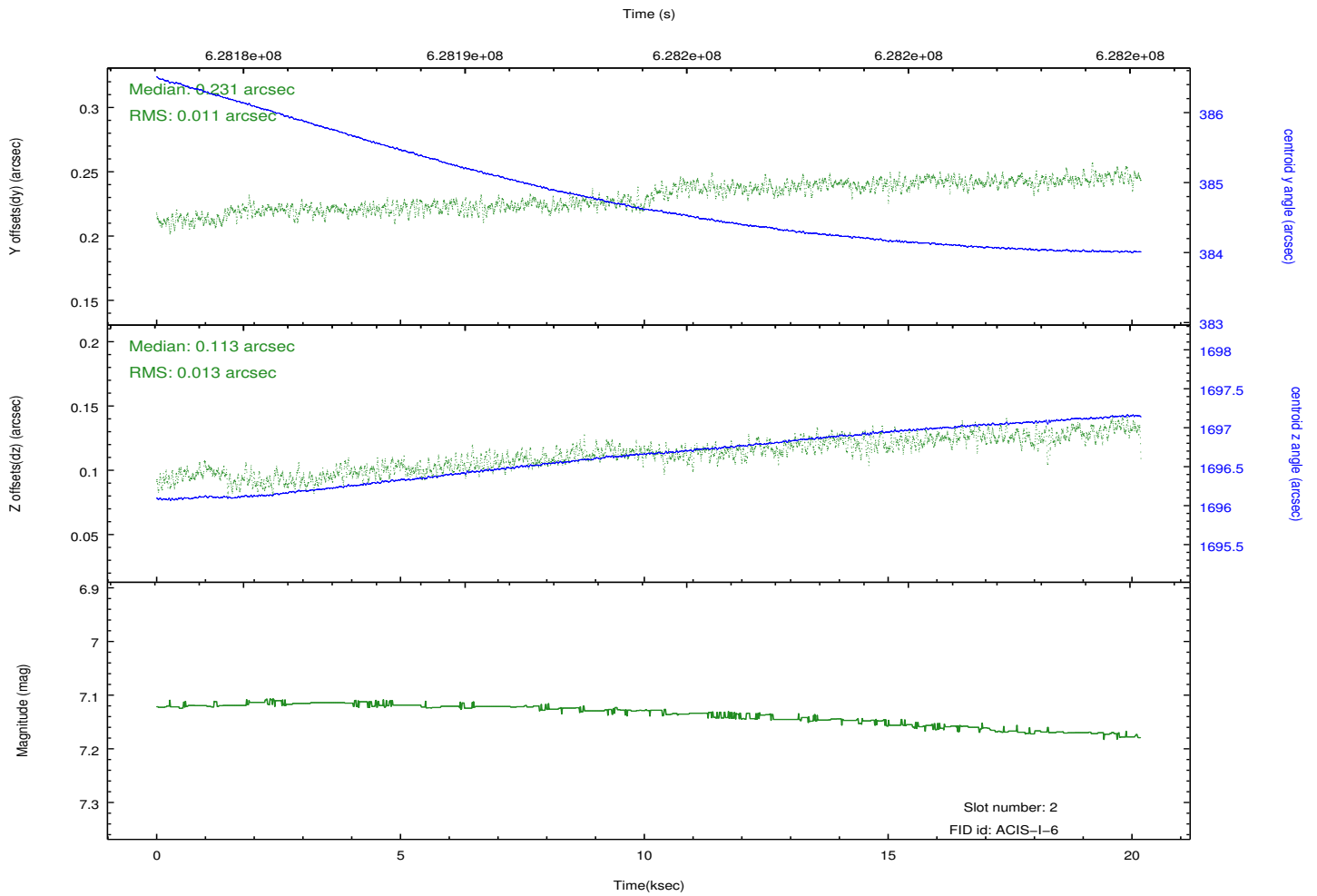
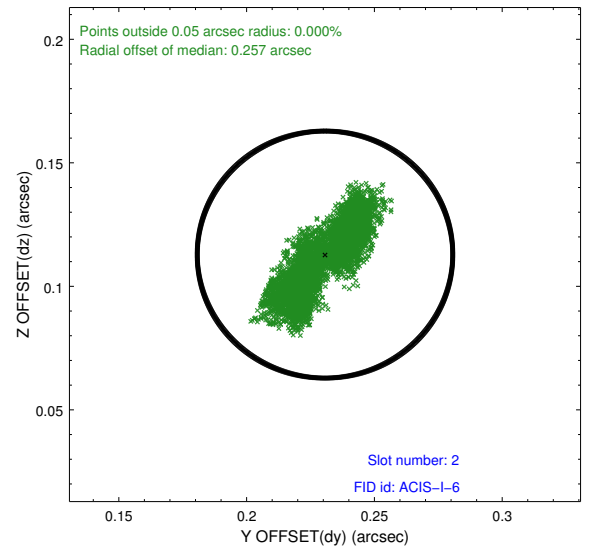
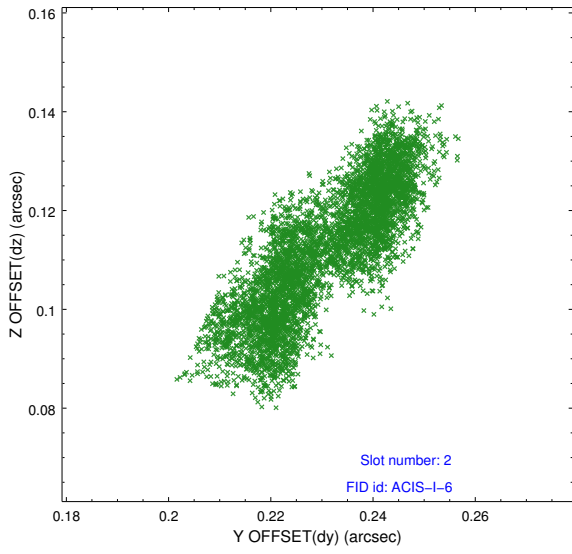
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.065975054383

A.2 Comments