

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22599 - L2 Version 1
Chandra X-Ray Center

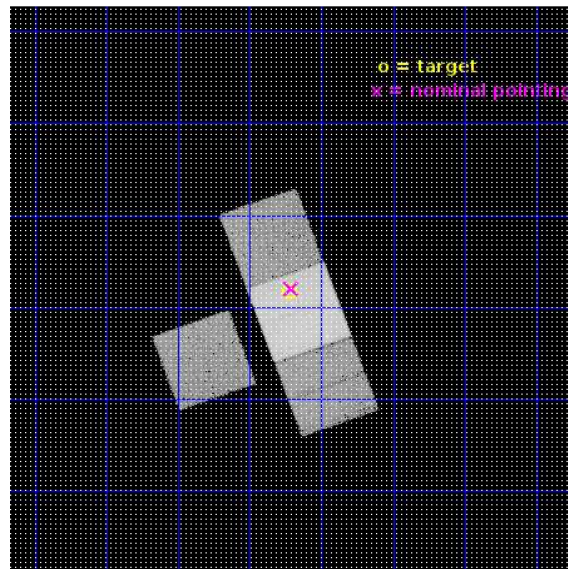
L2 Processing Date : Oct 7 2019

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
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

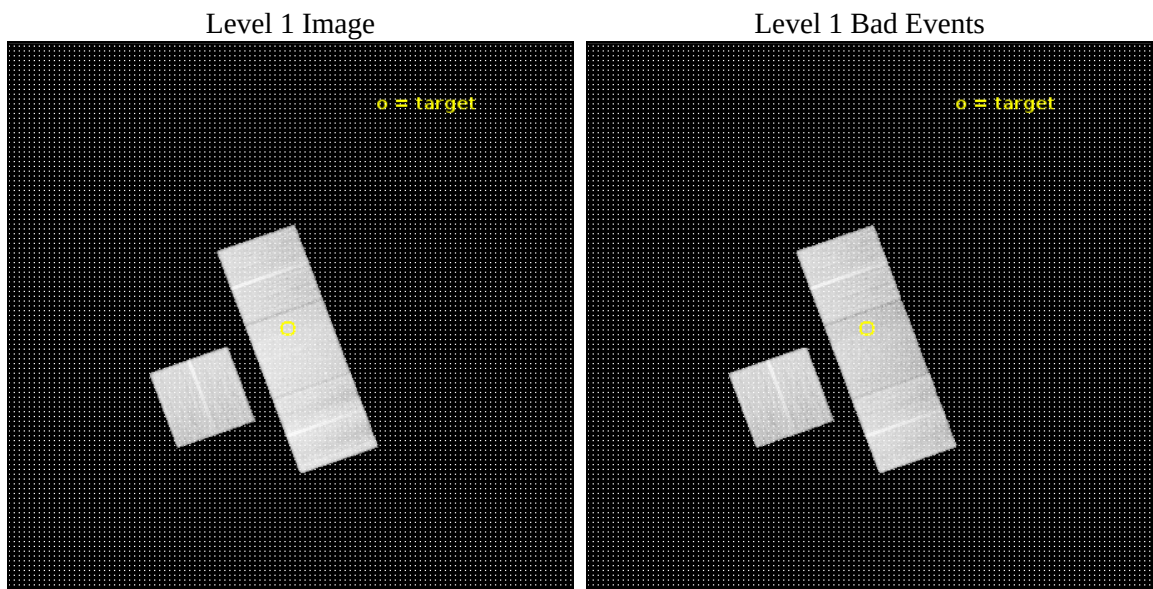
seq_num	703985	Sequence number
obs_id	22599	Observation id
title	Young Radio Sources at the Highest Redshift (Part 2)	Proposal titl
observer	Aneta Siemiginowska	Principal investigator
object	J0210-0018	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	32.679583	Observer's specified target RA [deg]
dec_targ	-0.305111	Observer's specified target Dec [deg]
ra_nom	32.677351071801	Nominal RA [deg]
dec_nom	-0.29999279272885	Nominal Dec [deg]
roll_nom	70.156620756903	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29632.133432865	Sum of GTIs [s]
livetime	29244.967794705	Livetime [s]
ontime3	29622.628102064	Sum of GTIs [s]
ontime6	29625.81034255	Sum of GTIs [s]
ontime7	29632.133432865	Sum of GTIs [s]
ontime8	29625.728202581	Sum of GTIs [s]
l2events	190429	Number of level 2 events



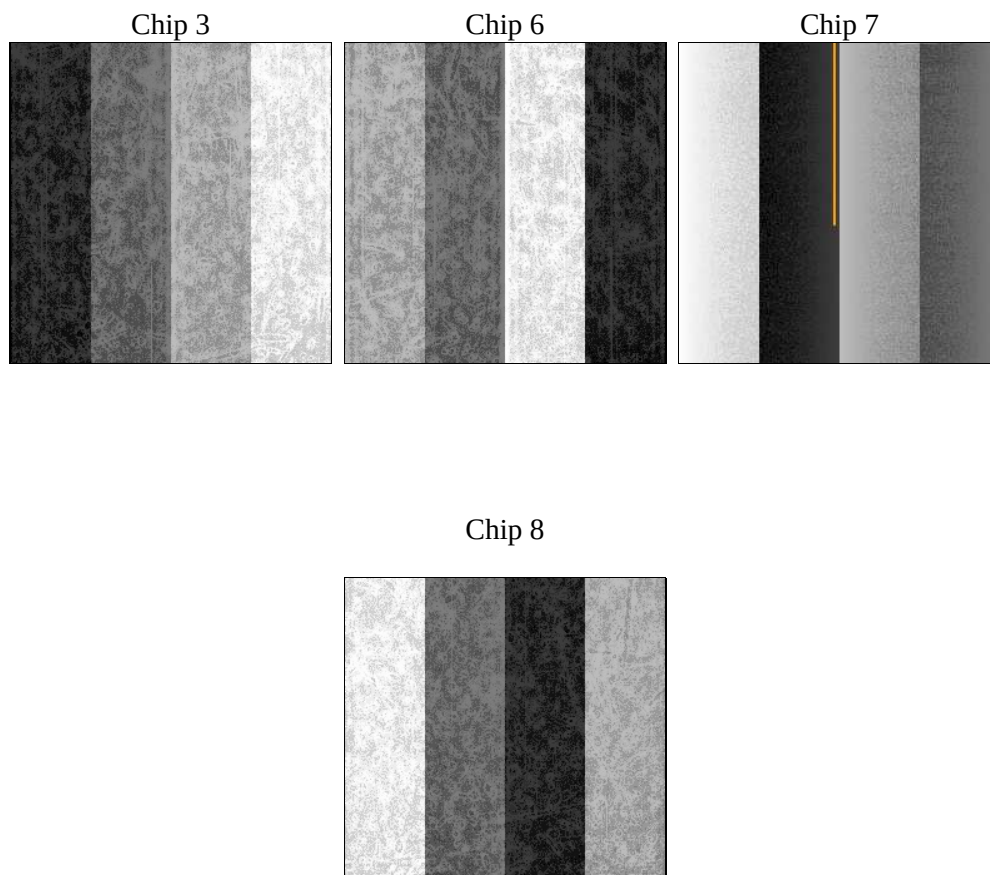
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29564.277000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	29632.133432865	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime3	29622.628102064	Sum of GTIs [s]
date	2019-10-07T06:17:32	Date and time of file creation	ontime6	29625.81034255	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	29632.133432865	Sum of GTIs [s]
			ontime8	29625.728202581	Sum of GTIs [s]
			l1events	1050292	Number of level 1 events

2.1.4 Events

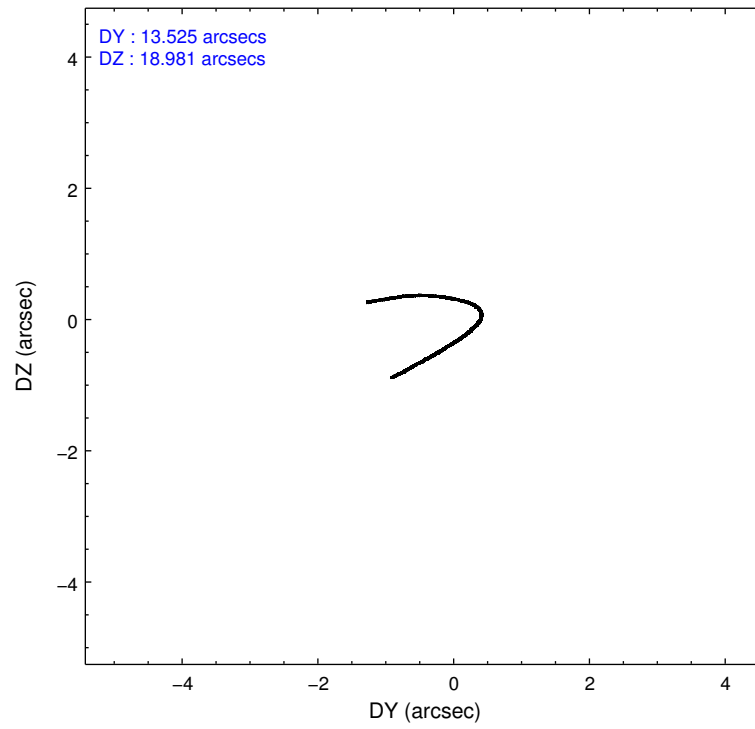
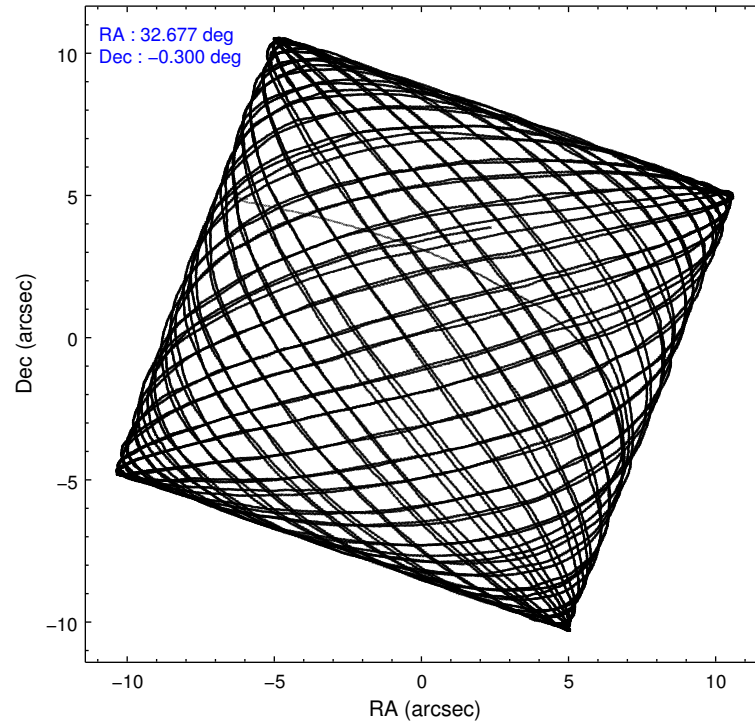
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	223812	238319	294405	293756
rejected events	200970	212752	168191	218871
rejected %	89%	89%	57%	74%

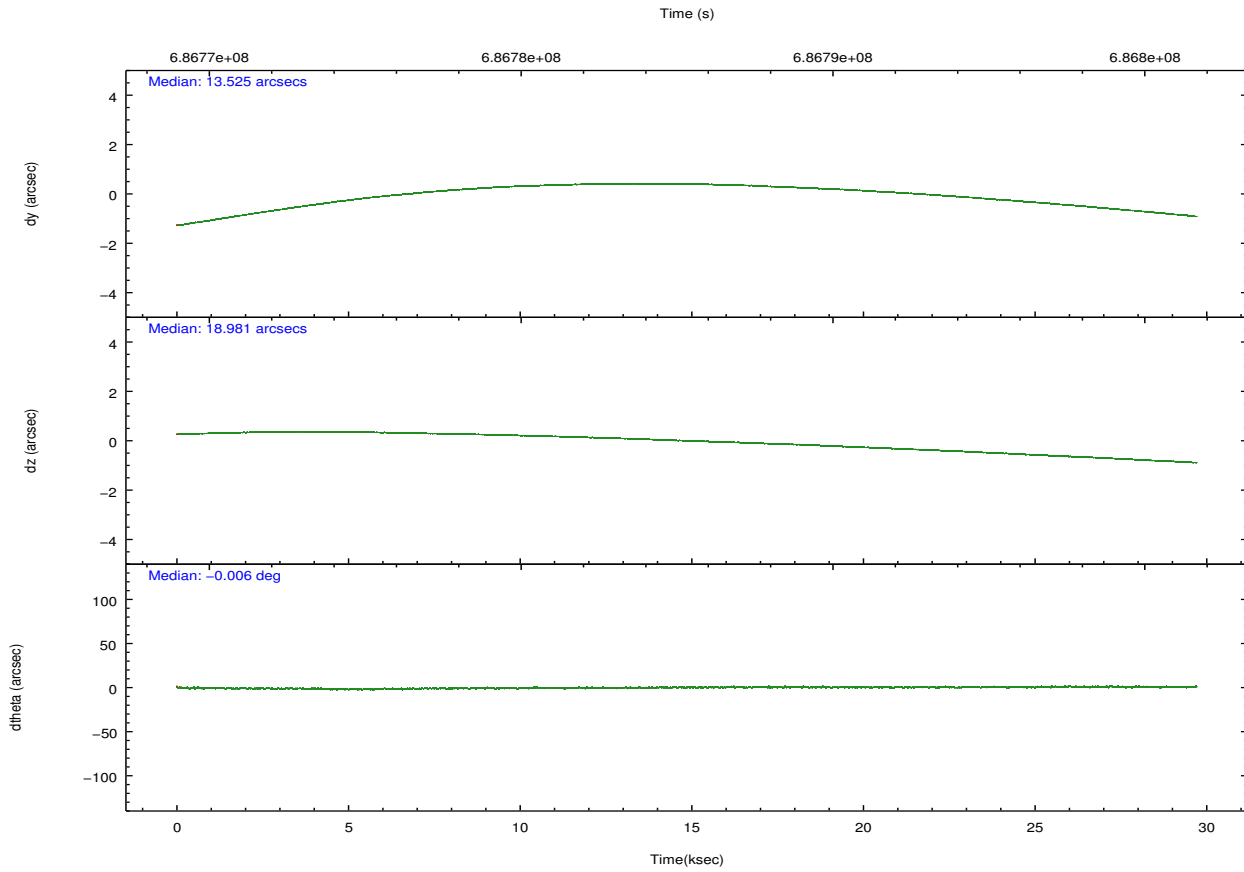
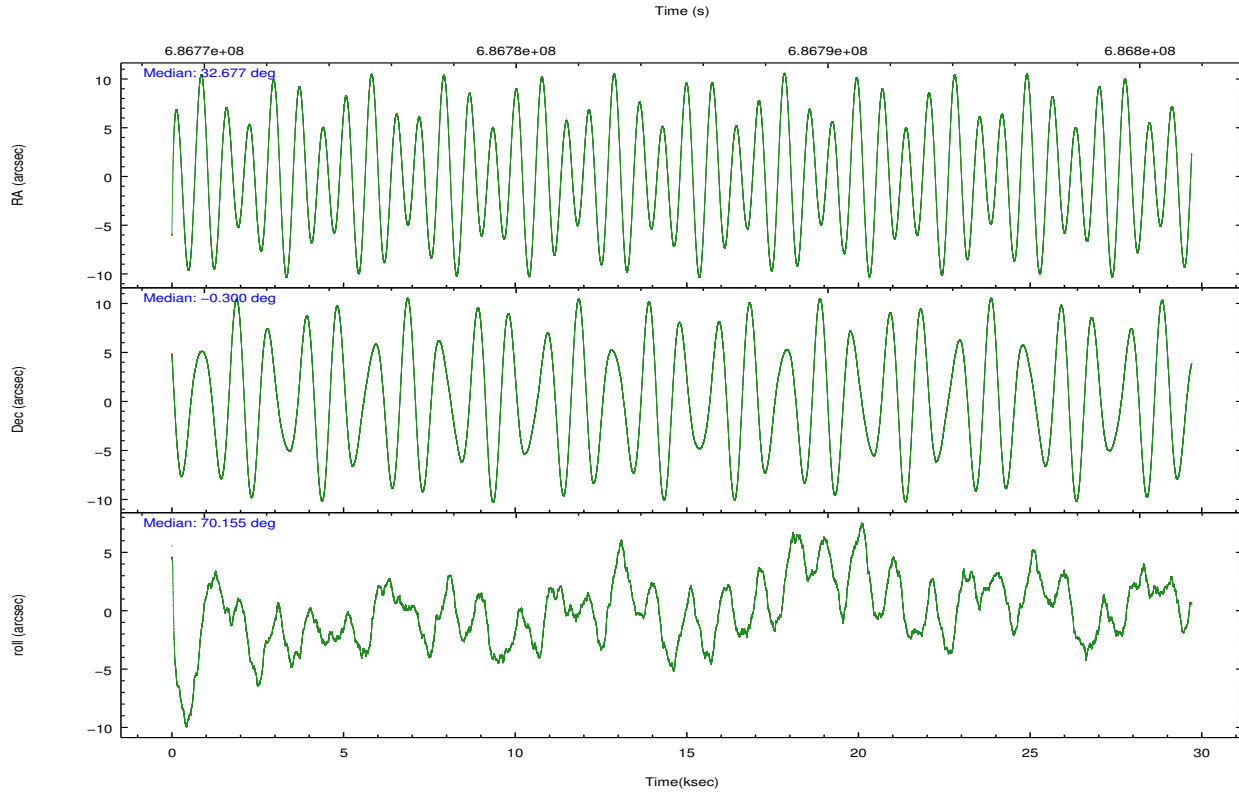
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	7734	7649	10474	20504
	3%	3%	3%	6%
grade 1 events	107	100	470	238
	0%	0%	0%	0%
grade 2 events	5161	6688	26637	18690
	2%	2%	9%	6%
grade 3 events	2491	2164	9730	7480
	1%	0%	3%	2%
grade 4 events	2418	2283	9318	7088
	1%	0%	3%	2%
grade 5 events	10014	10073	28350	15694
	4%	4%	9%	5%
grade 6 events	5039	6784	70067	21127
	2%	2%	23%	7%
grade 7 events	190848	202578	139359	202935
	85%	85%	47%	69%

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	32.682567	32.67735107180082	CCD I2 on	O1	N
[deg] Pointing Dec	-0.326924	-0.299992792728848	CCD I3 on	O2	Y
[deg] Pointing Roll	70.000019	70.15662075690321	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	686770612.184000	686769446.73076	CCD S5 on	N	N
Observation start date	2019-10-06T17:35:43	2019-10-06T17:17:26	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	686800176.184000	686801523.08269	On-chip summing requested	N	N
Observation end date	2019-10-07T01:48:27	2019-10-07T02:12:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



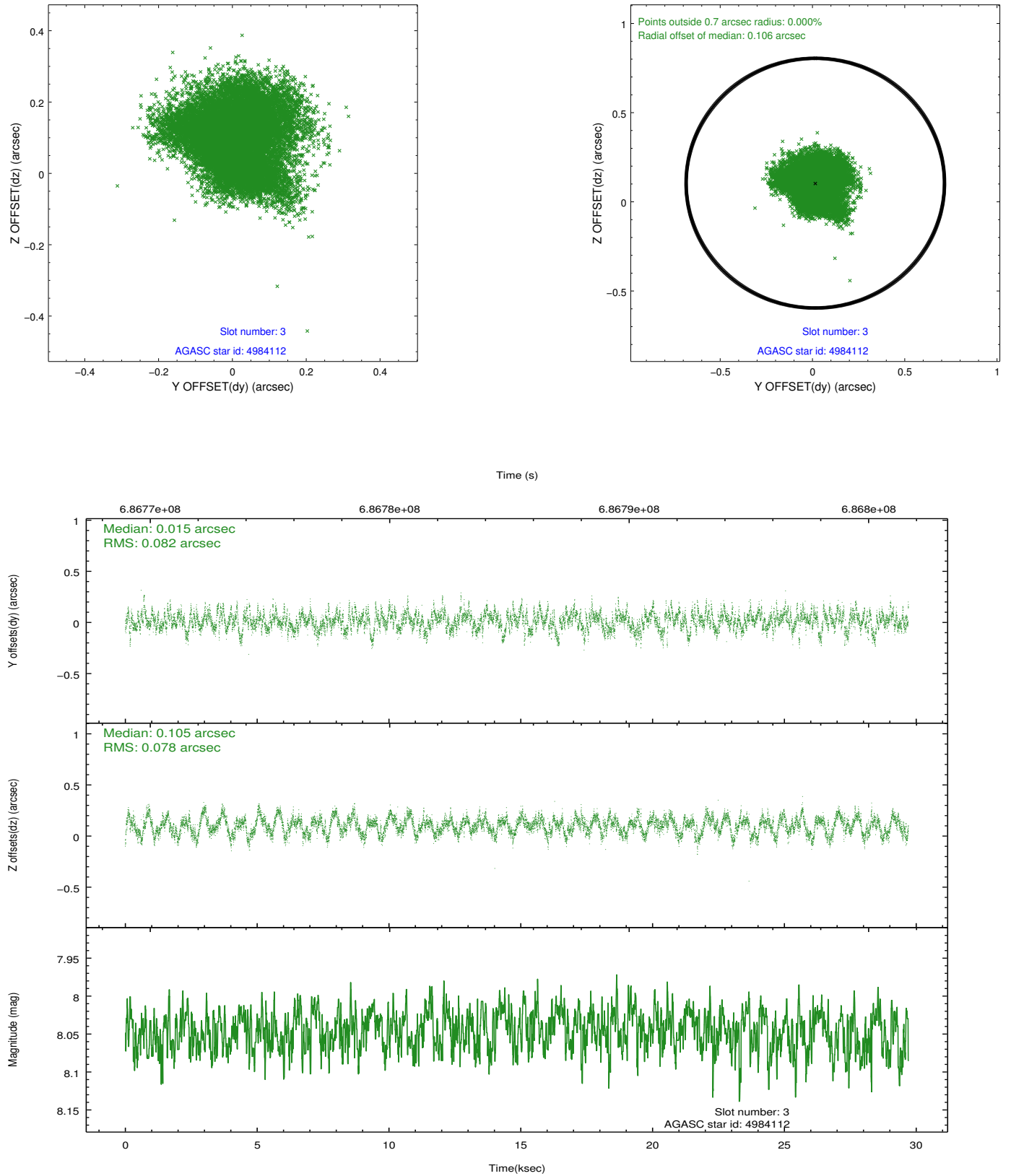


Slot Statistics

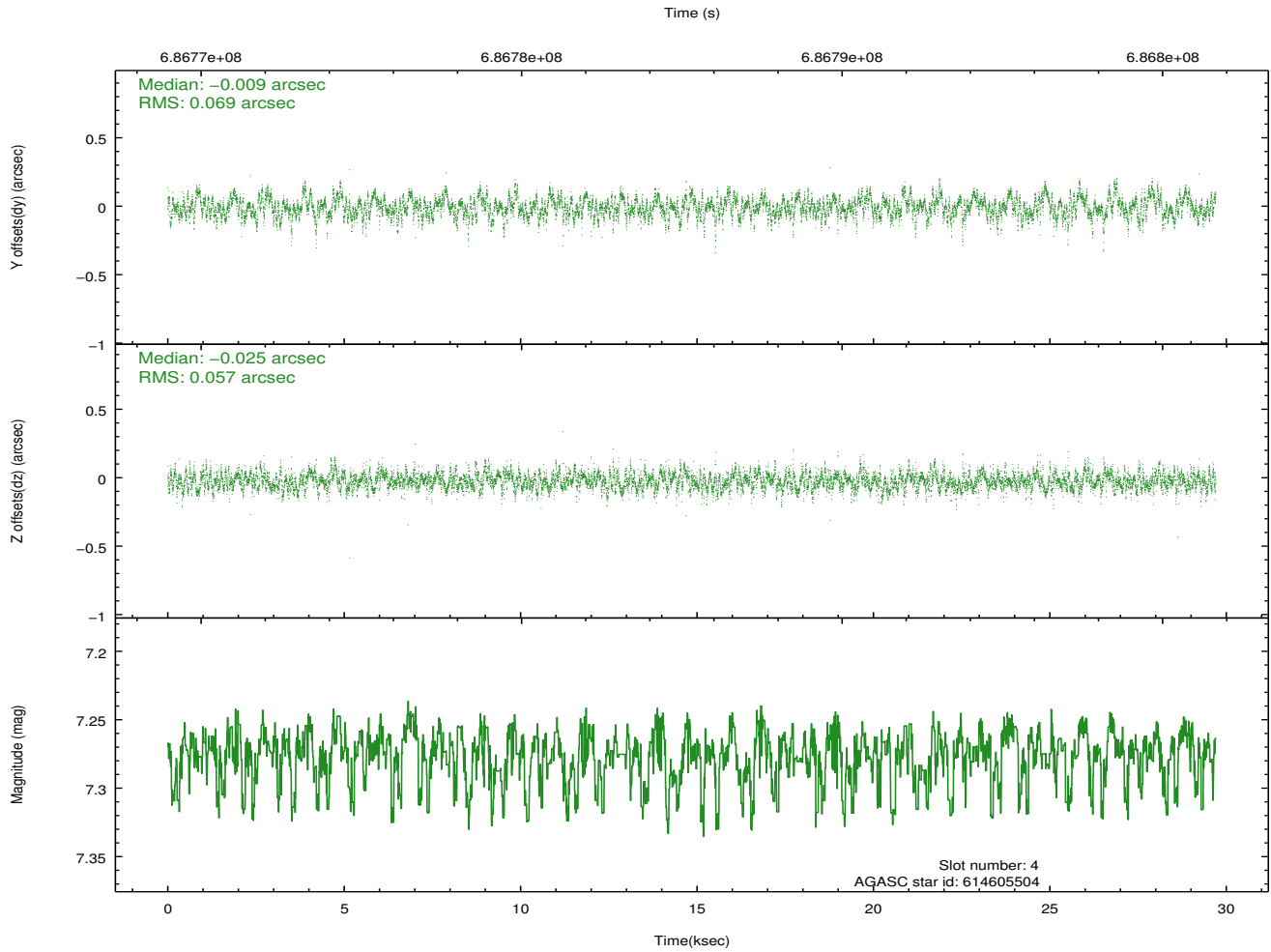
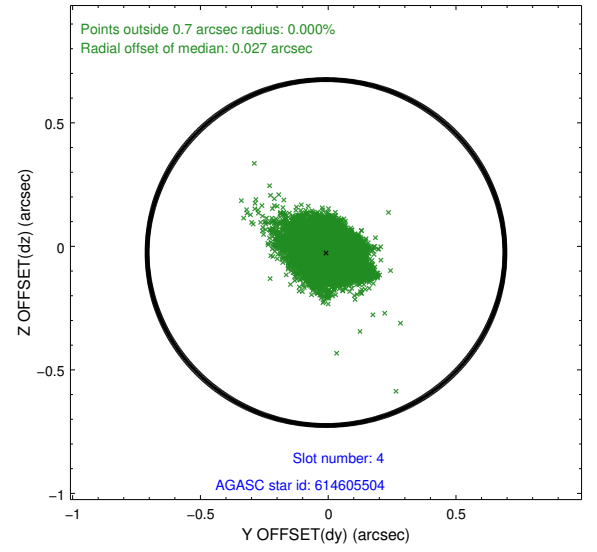
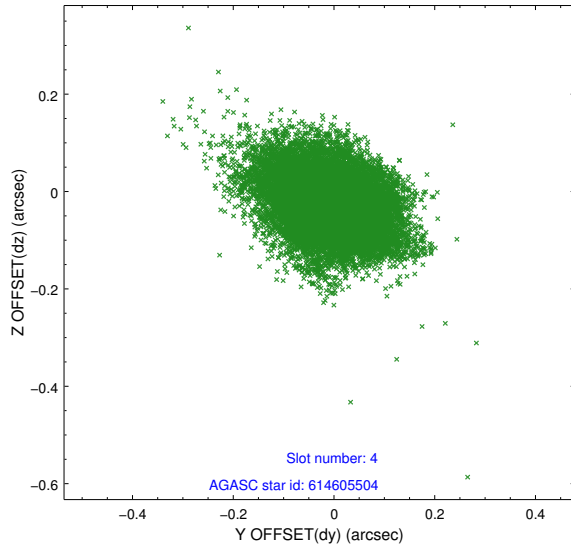
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	7246	1.000	-0.254	-0.220	0.026	0.044	0.000000	0.000000	-766.53	-1740
1	FID		ACIS-S-4	7.25	7244	1.000	0.766	0.179	0.022	0.067	0.000000	0.000000	2147.66	168
2	FID		ACIS-S-5	7.21	7246	1.000	-0.545	0.046	0.022	0.065	0.000000	0.000000	-1819.62	161
3	GUIDE	used	4984112	8.04	14487	1.000	0.015	0.105	0.122	0.192	32.933733	0.223546	2171.68	-172
4	GUIDE	used	614605504	7.28	14491	1.000	-0.009	-0.025	0.093	0.155	32.113697	-0.419301	-1012.04	1809
5	GUIDE	used	614606448	6.99	14489	1.000	0.020	0.072	0.117	0.217	31.892805	-0.617418	-1963.06	2315
6	GUIDE	used	614728296	8.48	14483	1.000	-0.019	-0.145	0.098	0.161	32.601360	-0.092275	692.76	563
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

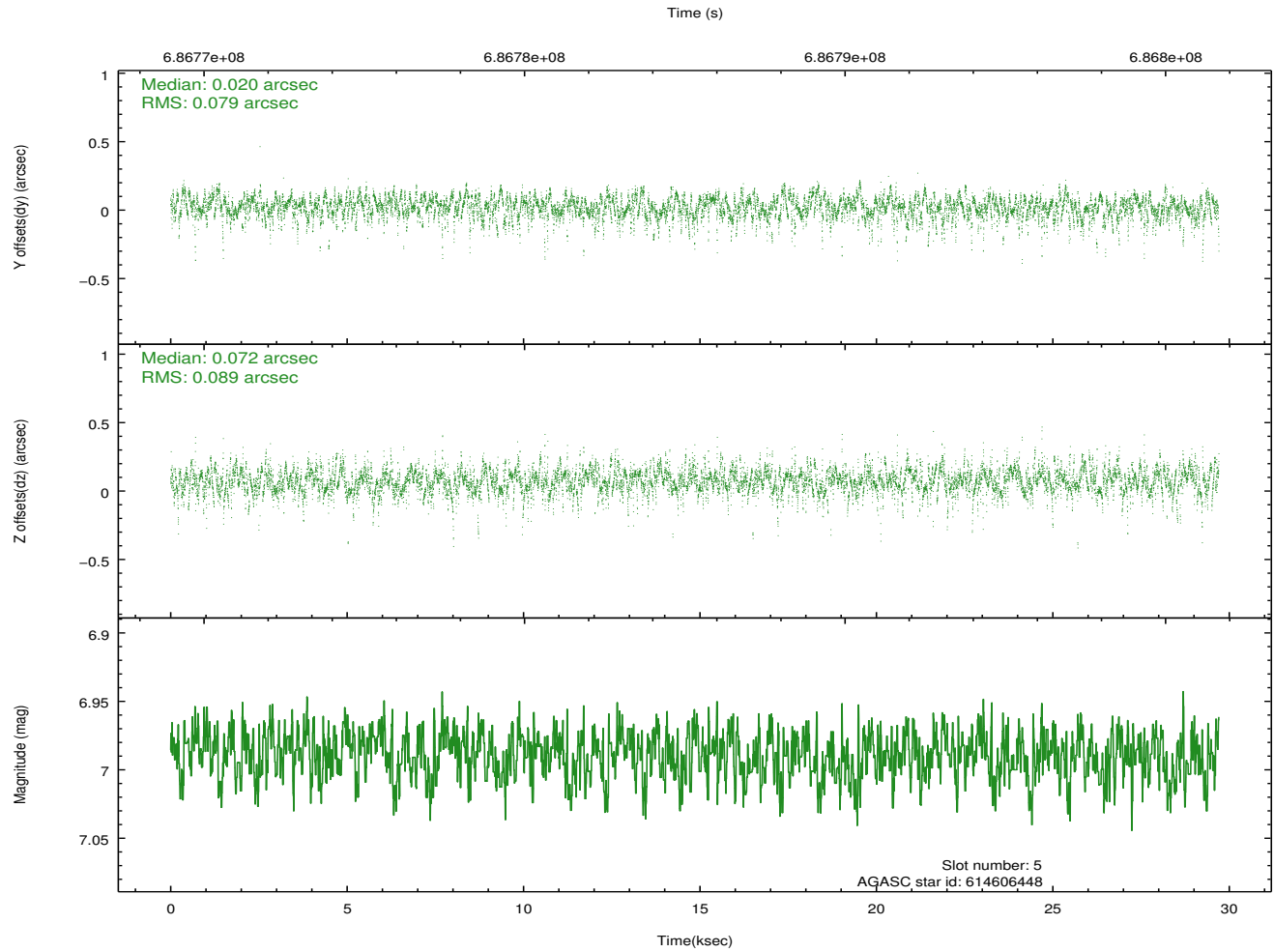
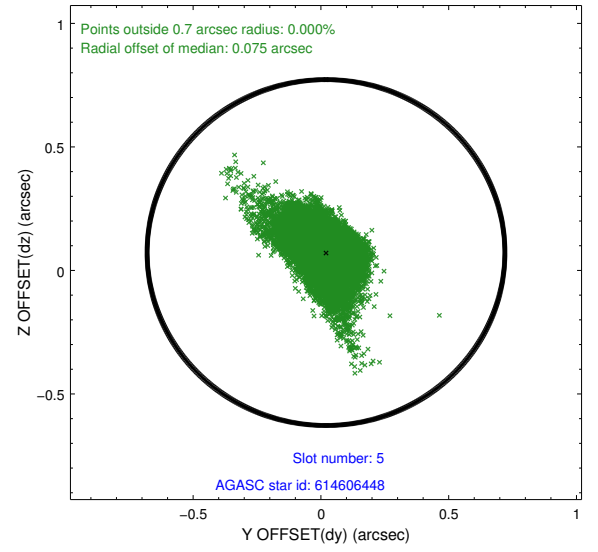
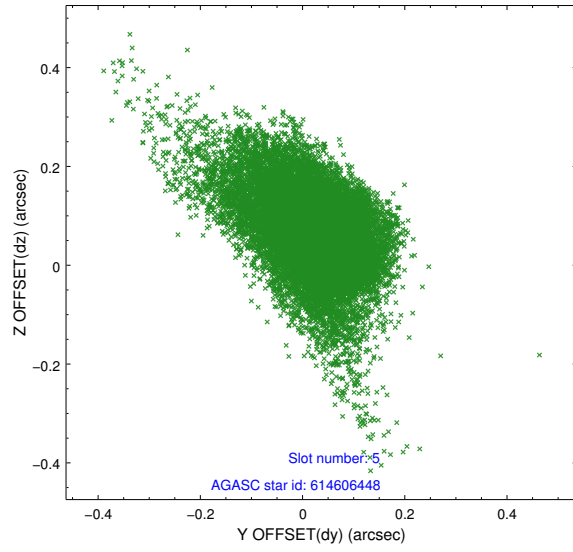
2.4.1 Slot 3



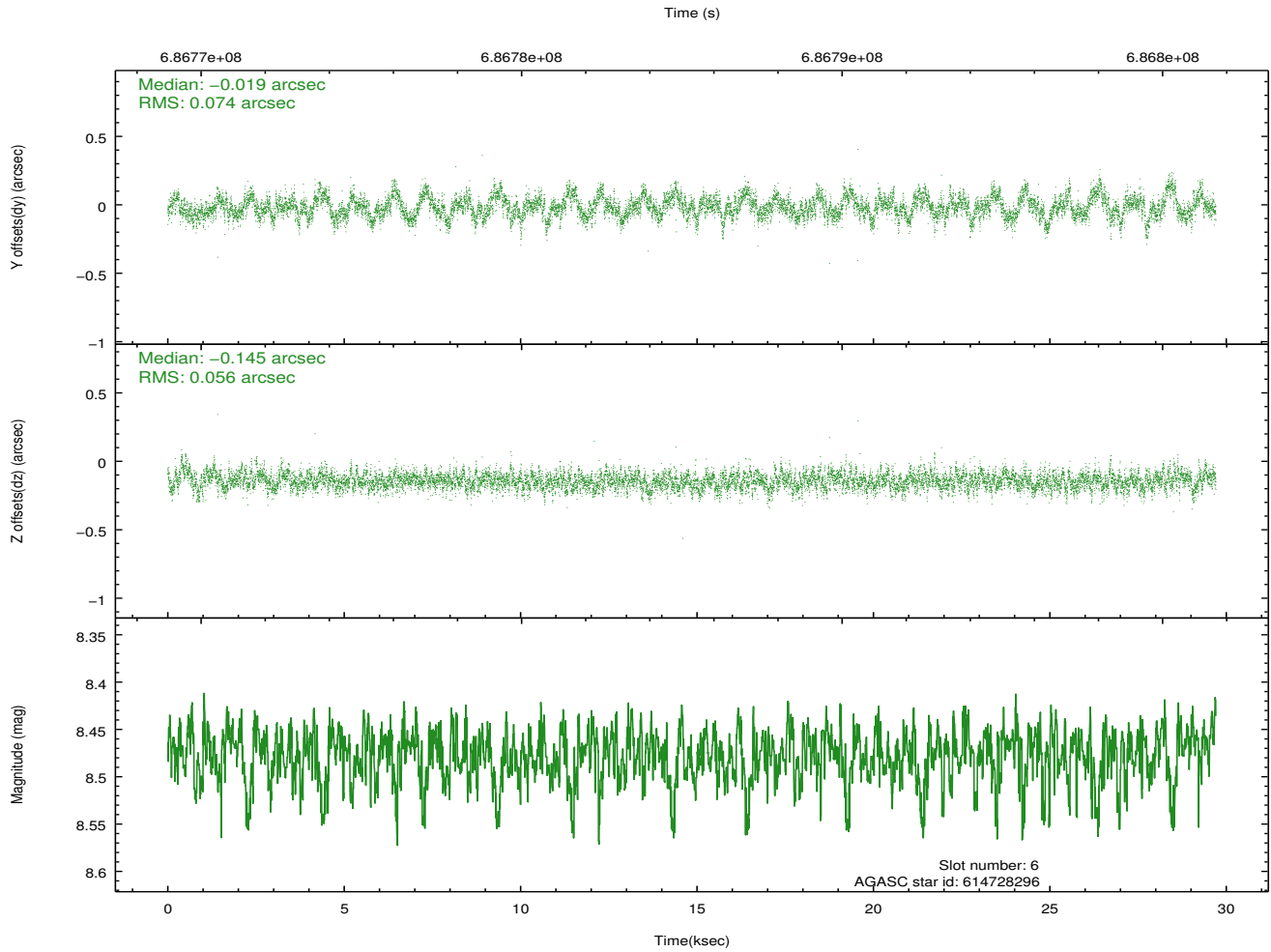
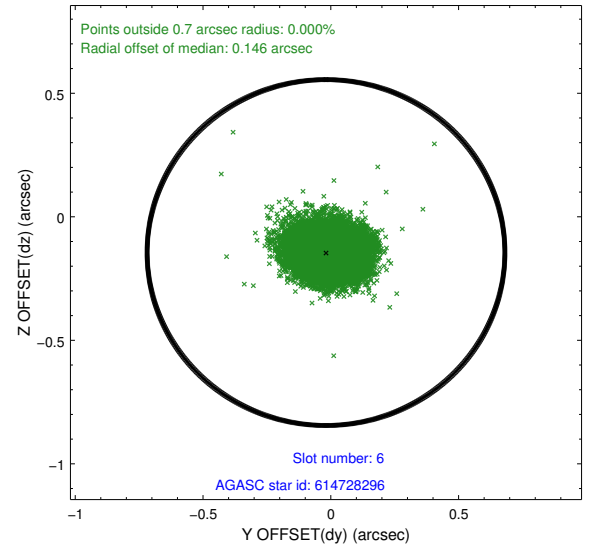
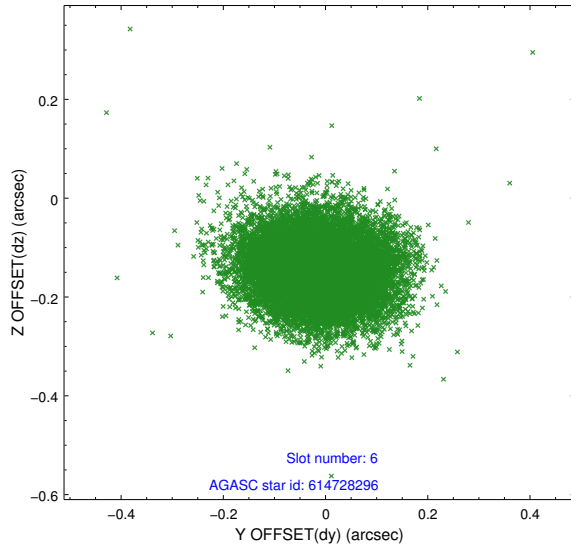
2.4.2 Slot 4



2.4.3 Slot 5

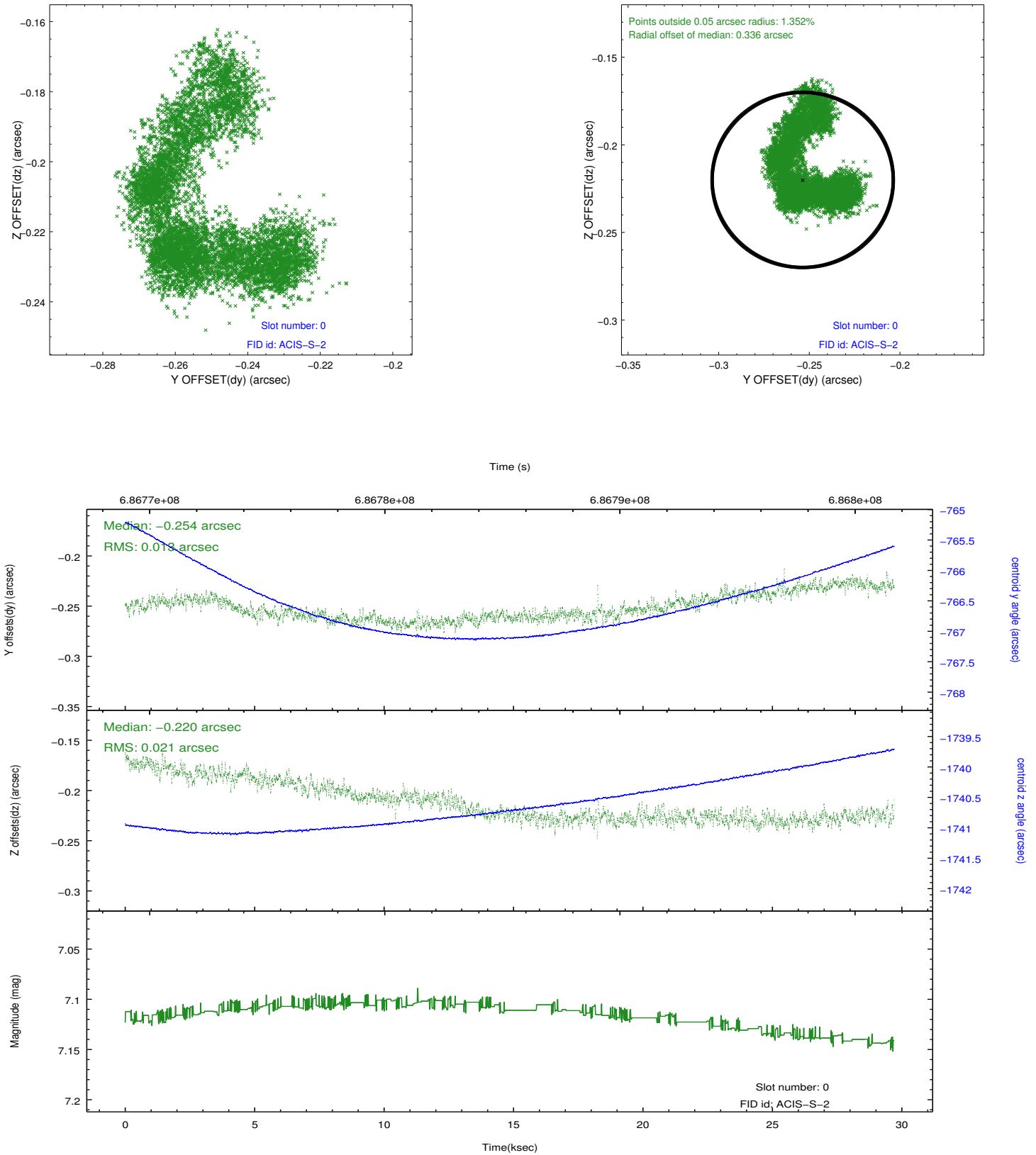


2.4.4 Slot 6

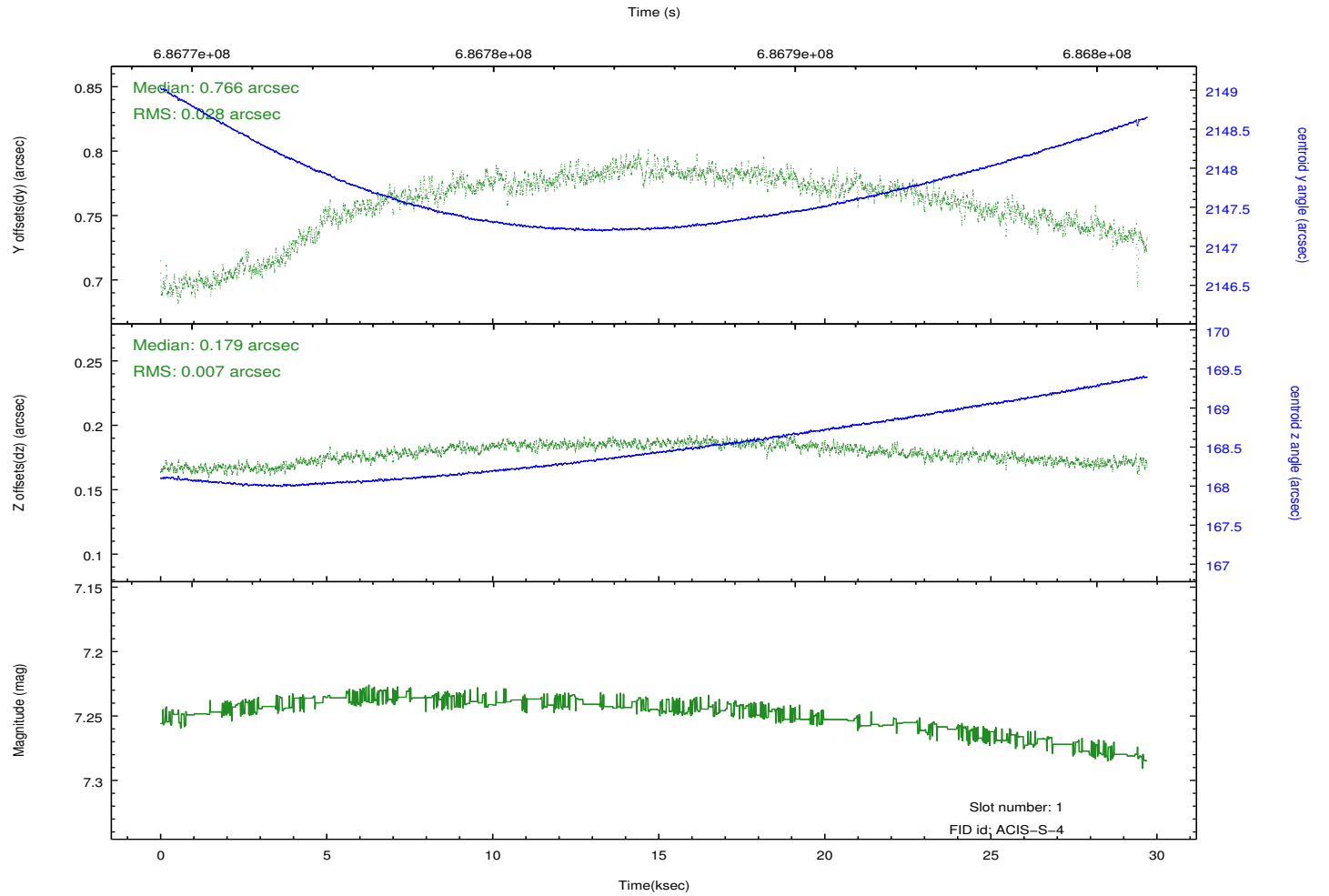
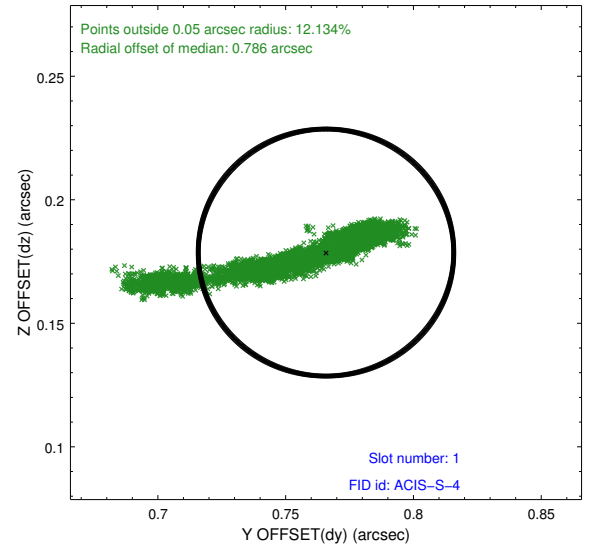
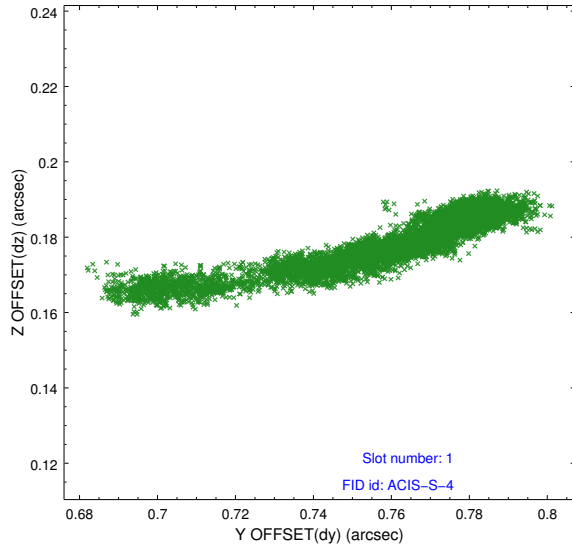


2.5 FID Slots

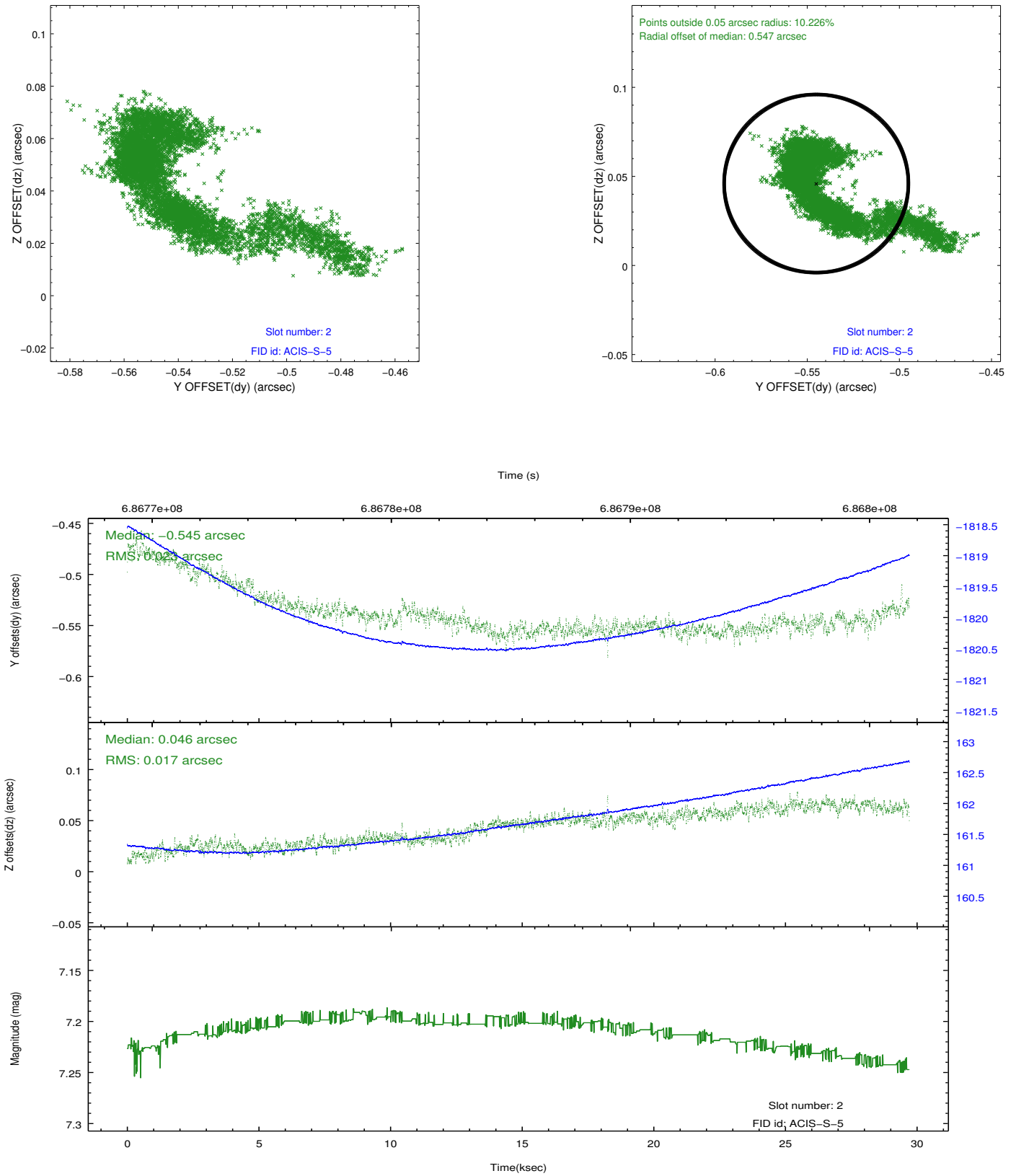
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.632133432865

A.2 Comments

Optional chip I2 not included.

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The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.