

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19673 - L2 Version 1
Chandra X-Ray Center

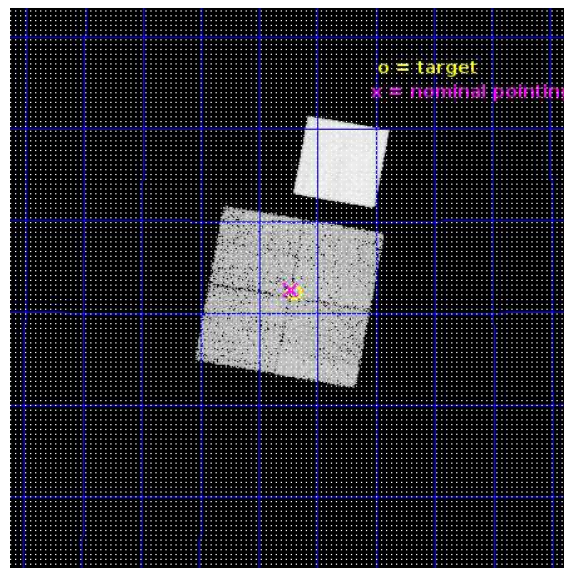
L2 Processing Date : Nov 13 2017

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

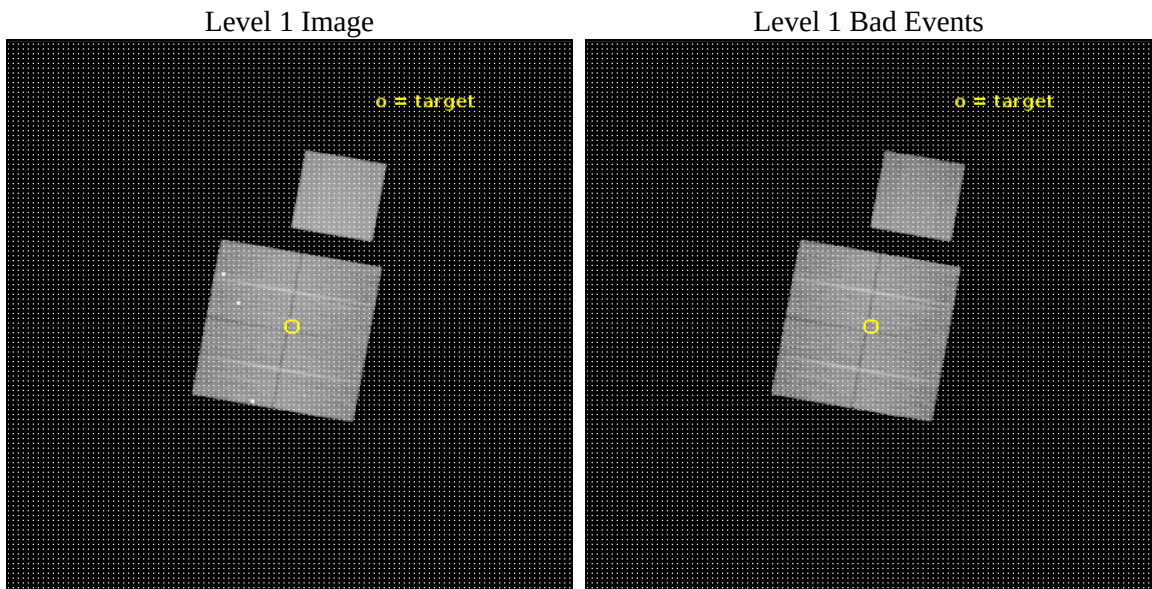
seq_num	901380	Sequence number
obs_id	19673	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	CDWFS	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.548	Observer's specified target RA [deg]
dec_targ	35.20425	Observer's specified target Dec [deg]
ra_nom	217.55560123473	Nominal RA [deg]
dec_nom	35.208978277723	Nominal Dec [deg]
roll_nom	10.204308586578	Nominal Roll [deg]
revision	1	Processing version of data
ontime	22797.063058972	Sum of GTIs [s]
livetime	22499.202647153	Livetime [s]
ontime0	22800.080909133	Sum of GTIs [s]
ontime1	22800.121949196	Sum of GTIs [s]
ontime2	22800.16298914	Sum of GTIs [s]
ontime3	22797.063058972	Sum of GTIs [s]
ontime7	22800.245069146	Sum of GTIs [s]
l2events	144996	Number of level 2 events



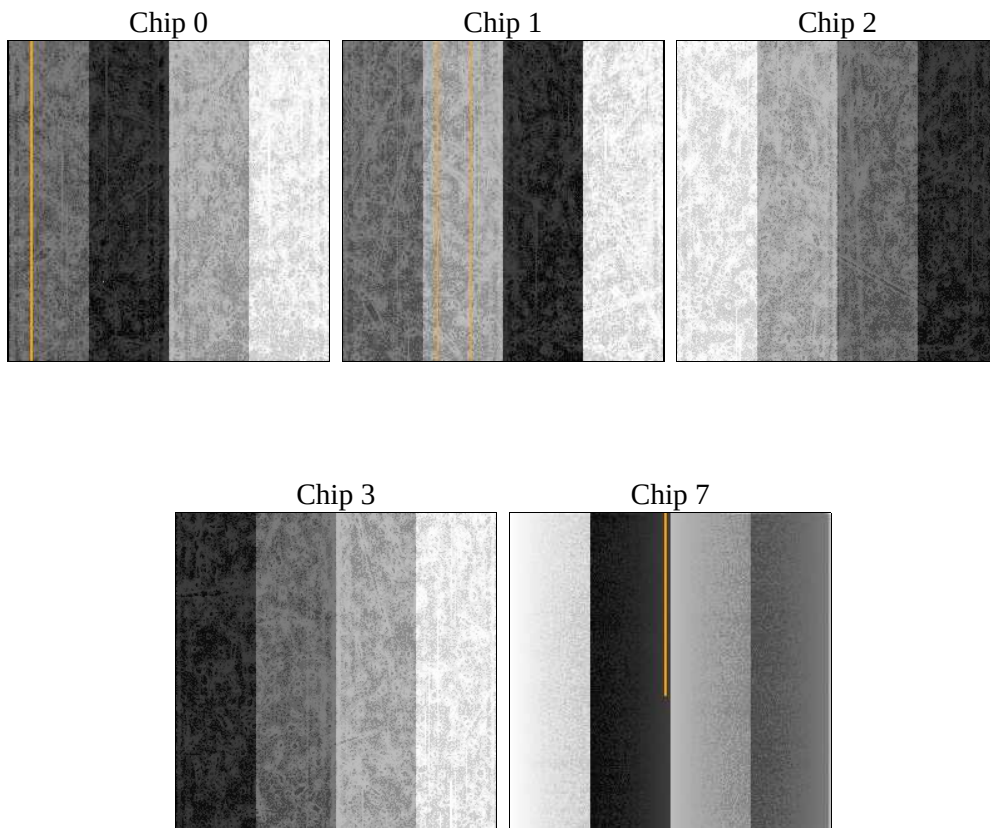
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	22740.043000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	22797.063058972	Sum of GTIs [s]
caldbver	4.7.6	 	ontime0	22800.080909133	Sum of GTIs [s]
date	2017-11-13T18:18:24	Date and time of file creation	ontime1	22800.121949196	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	22800.16298914	Sum of GTIs [s]
			ontime3	22797.063058972	Sum of GTIs [s]
			ontime7	22800.245069146	Sum of GTIs [s]
			l1events	825762	Number of level 1 events

2.1.4 Events

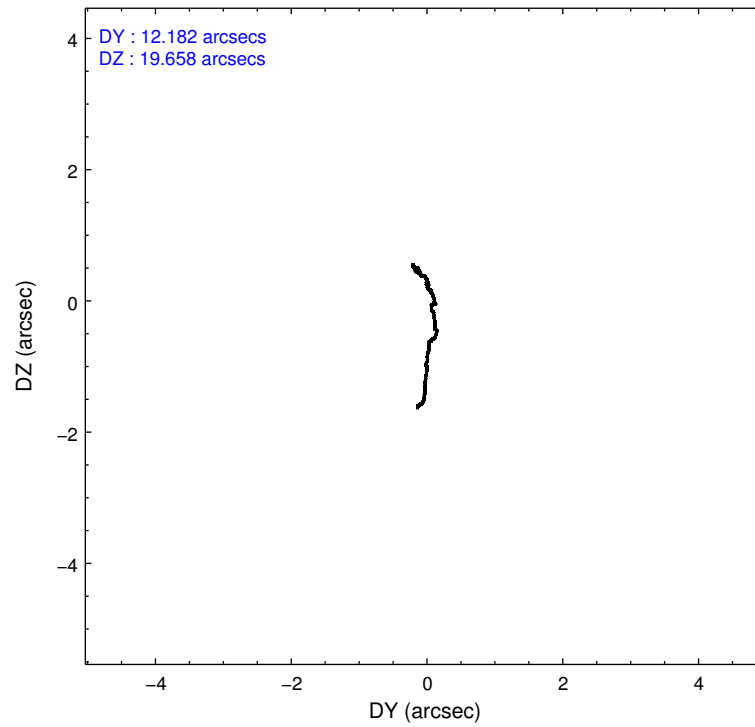
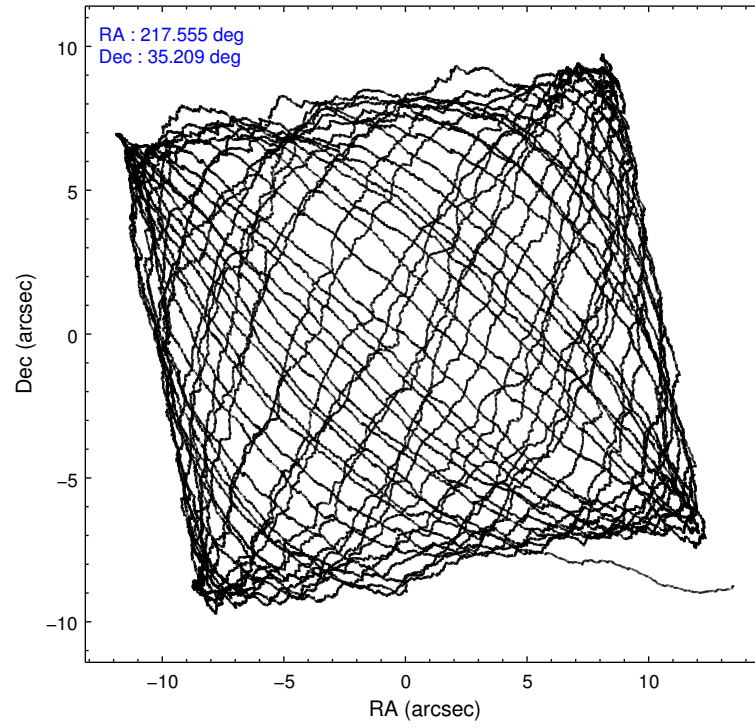
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	148144	150835	170986	153105	202692
rejected events	123570	131208	141089	136193	114500
rejected %	83%	86%	82%	88%	56%

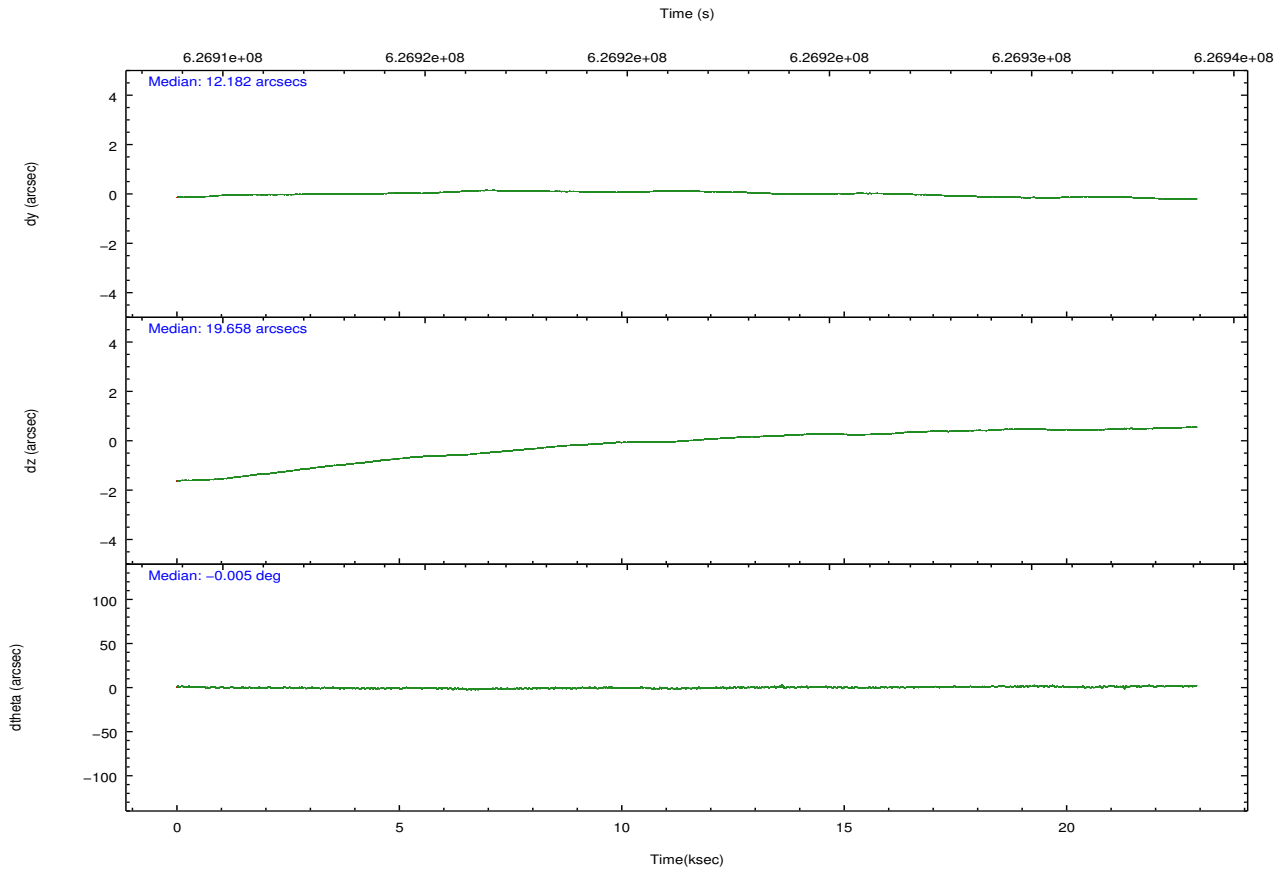
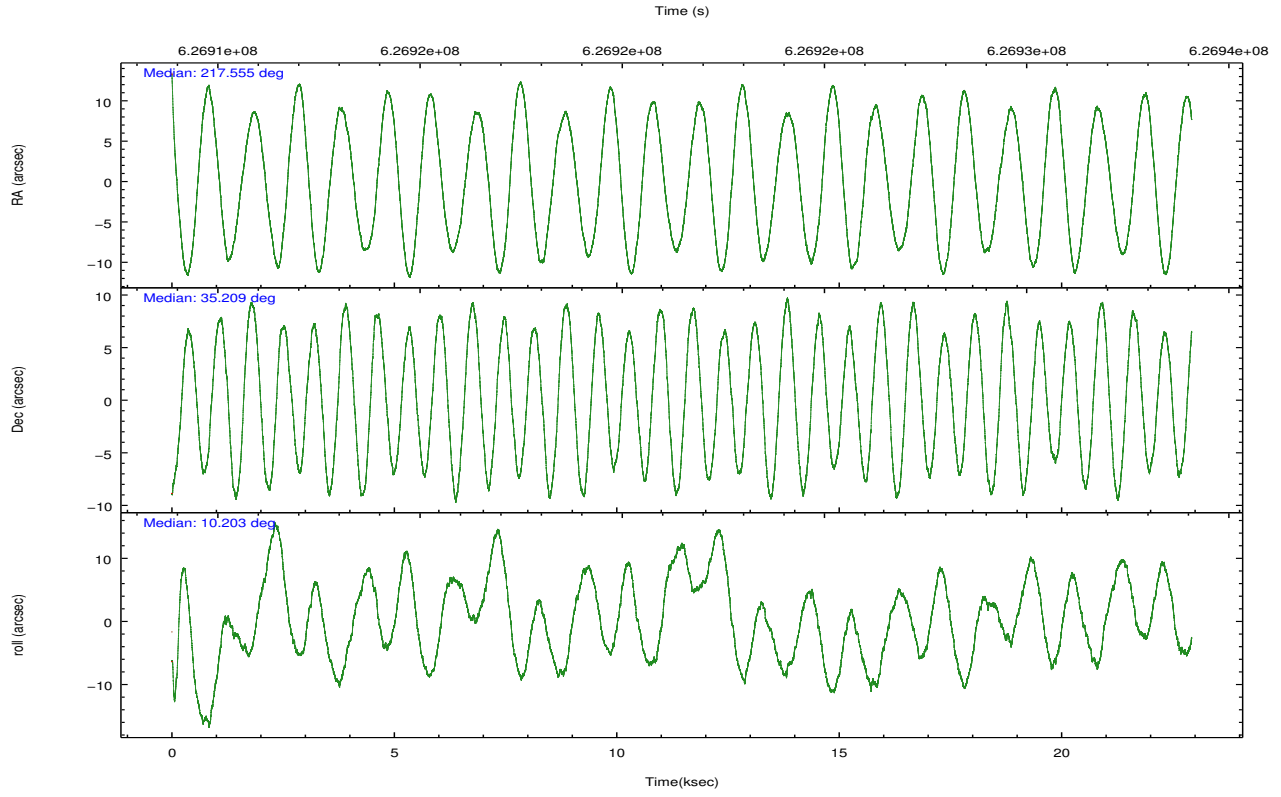
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	6570	6736	18848	6113	7448
	4%	4%	11%	3%	3%
grade 1 events	81	84	159	85	300
	0%	0%	0%	0%	0%
grade 2 events	10845	5047	4307	3759	18676
	7%	3%	2%	2%	9%
grade 3 events	1863	1828	1676	1799	7313
	1%	1%	0%	1%	3%
grade 4 events	1658	1727	1740	1678	7004
	1%	1%	1%	1%	3%
grade 5 events	6992	7237	6323	7706	20717
	4%	4%	3%	5%	10%
grade 6 events	3642	4293	3329	3564	47761
	2%	2%	1%	2%	23%
grade 7 events	116493	123883	134604	128401	93473
	78%	82%	78%	83%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	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	217.529896	217.5556012347269	CCD I2 on	Y	Y
[deg] Pointing Dec	35.191097	35.20897827772284	CCD I3 on	Y	Y
[deg] Pointing Roll	10.010432	10.20430858657793	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	626910180.184000	626908831.67782	CCD S5 on	N	N
Observation start date	2017-11-12T21:41:51	2017-11-12T21:20:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	626932920.184000	626933300.99176	On-chip summing requested	N	N
Observation end date	2017-11-13T04:00:51	2017-11-13T04:08:20	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



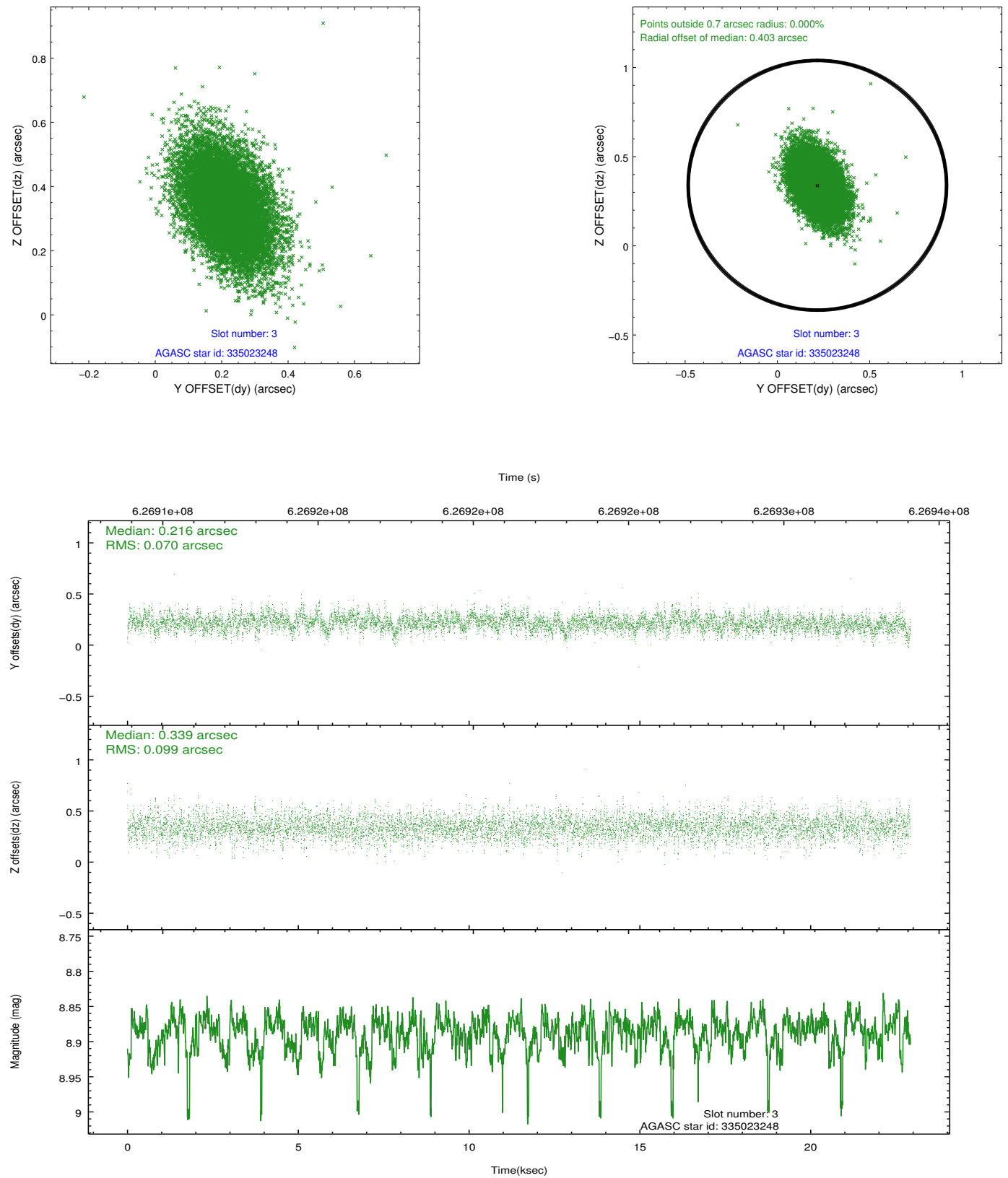


Slot Statistics

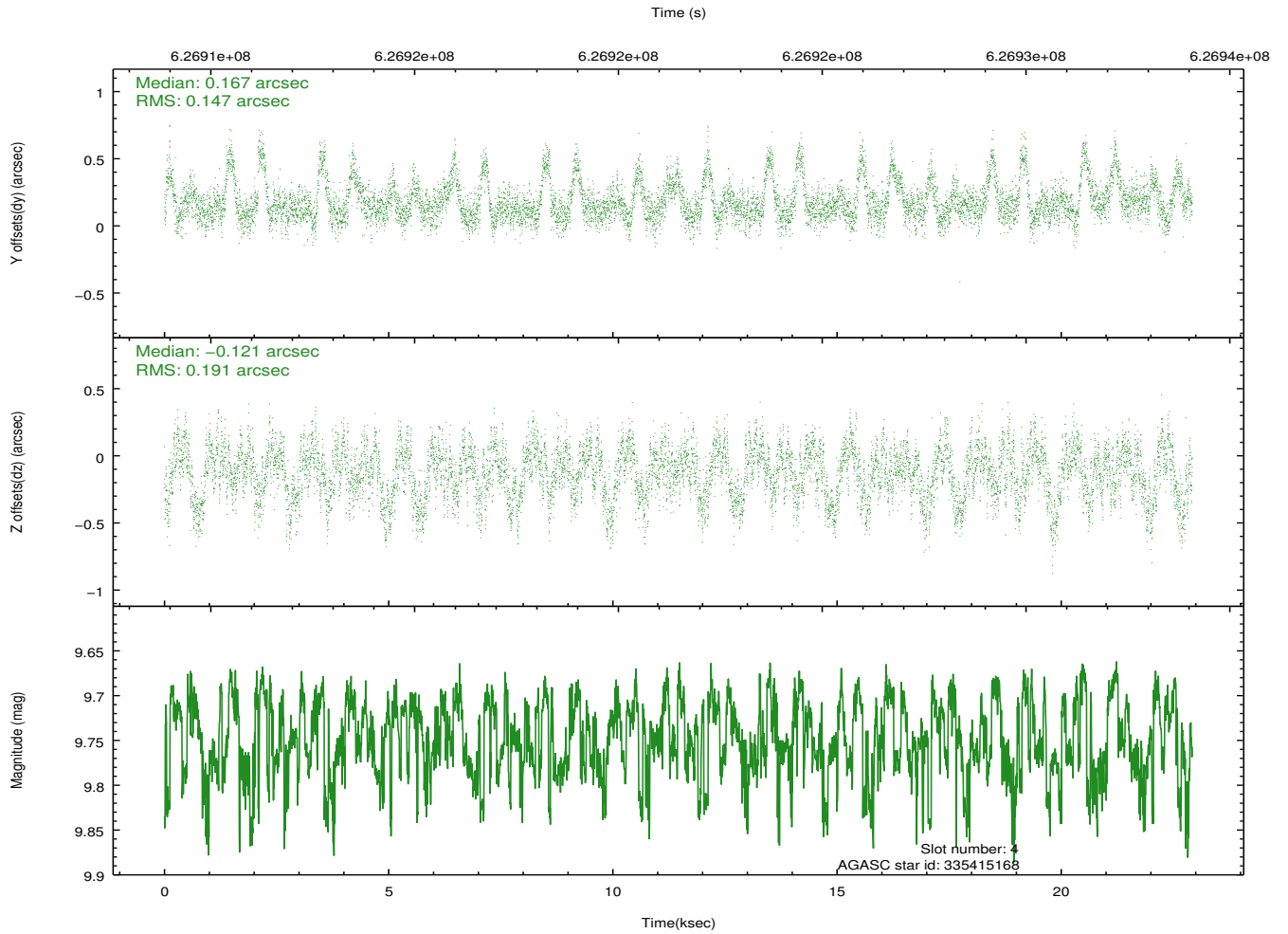
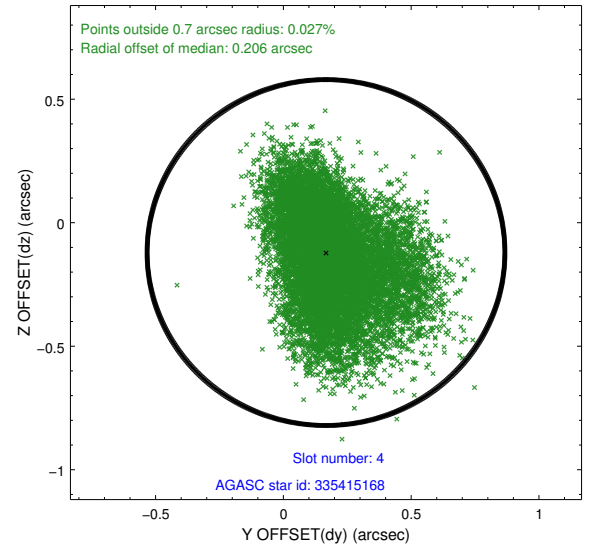
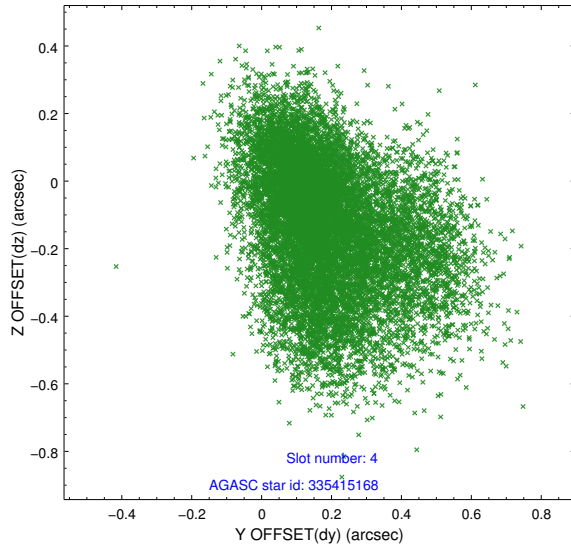
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.16	5592	0.064	-0.021	0.015	0.024	0.000000	0.000000	927.47	-843.17
1	FID		ACIS-I-5	7.16	5592	-0.321	0.037	0.007	0.011	0.000000	0.000000	-1821.04	1054.17
2	FID		ACIS-I-6	7.16	5591	0.166	0.056	0.015	0.022	0.000000	0.000000	392.84	1698.96
3	GUIDE	used	335023248	8.89	11172	0.216	0.339	0.125	0.219	217.634832	34.944512	151.29	-927.39
4	GUIDE	used	335415168	9.75	11165	0.167	-0.121	0.257	0.425	217.681296	35.301767	505.74	316.03
5	GUIDE	used	335417968	9.34	11173	-0.028	0.173	0.218	0.336	217.358149	35.055285	-582.92	-392.76
6	GUIDE	used	335421696	8.92	11174	-0.237	-0.339	0.138	0.248	218.045699	35.772449	1848.99	1801.98
7	GUIDE	used	335422272	9.44	11173	-0.192	-0.036	0.238	0.416	217.586135	35.522660	370.53	1147.77

2.4 Star Slots

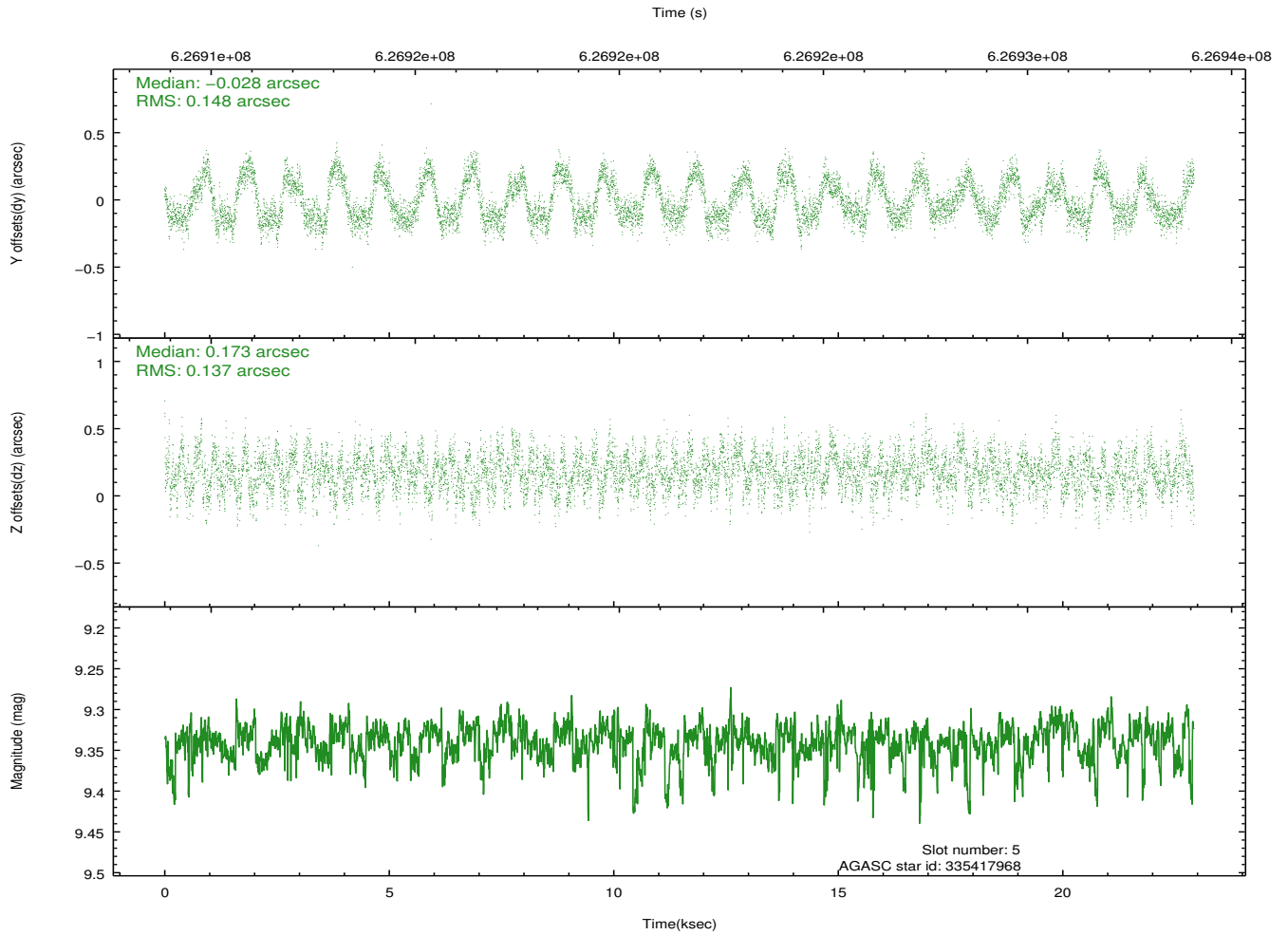
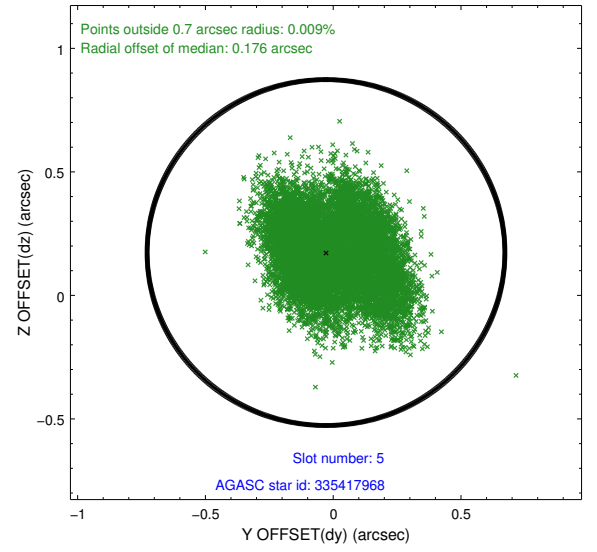
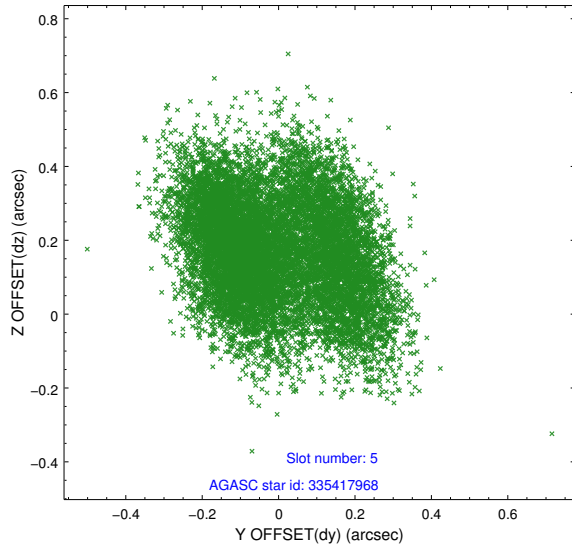
2.4.1 Slot 3



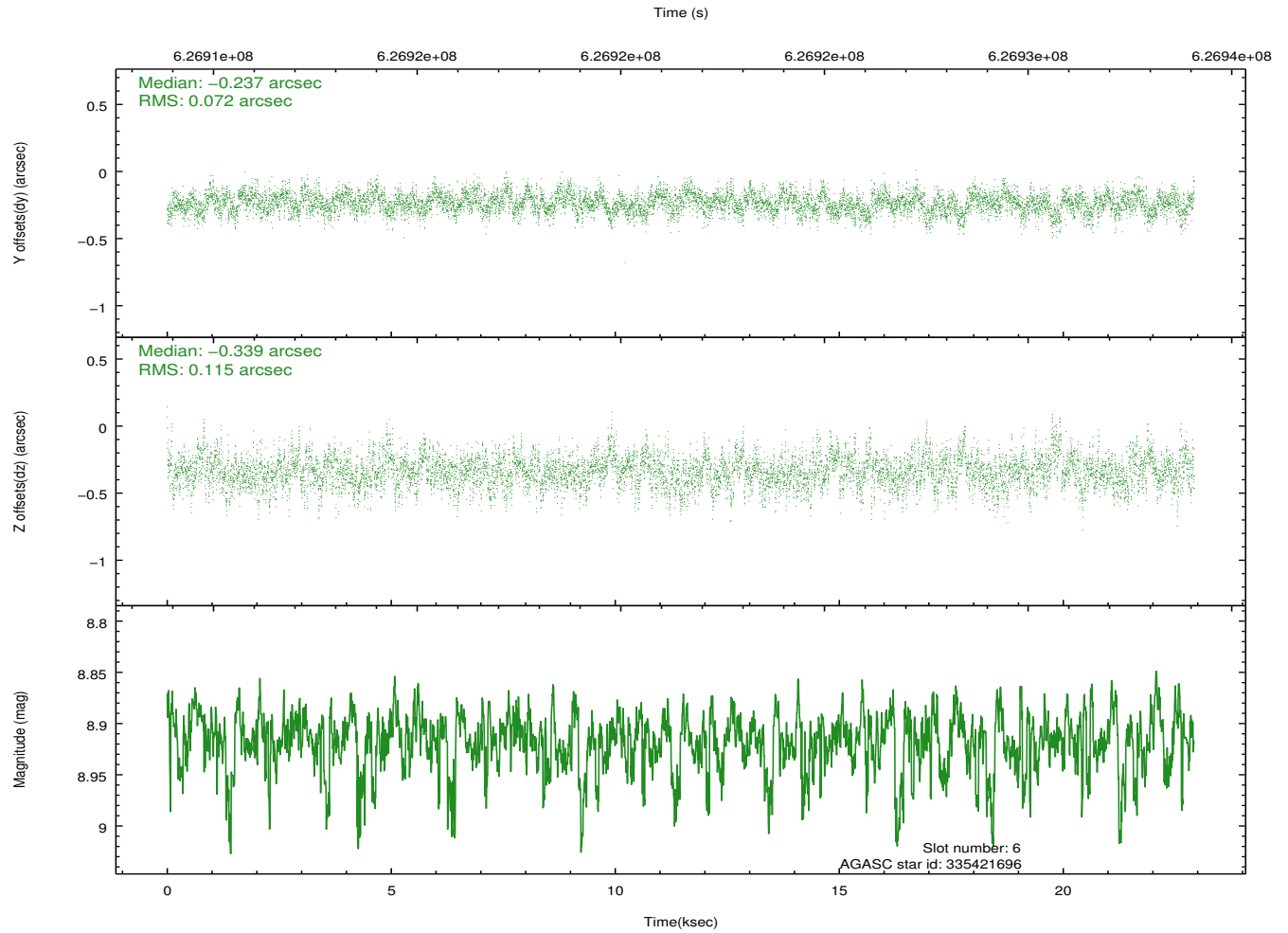
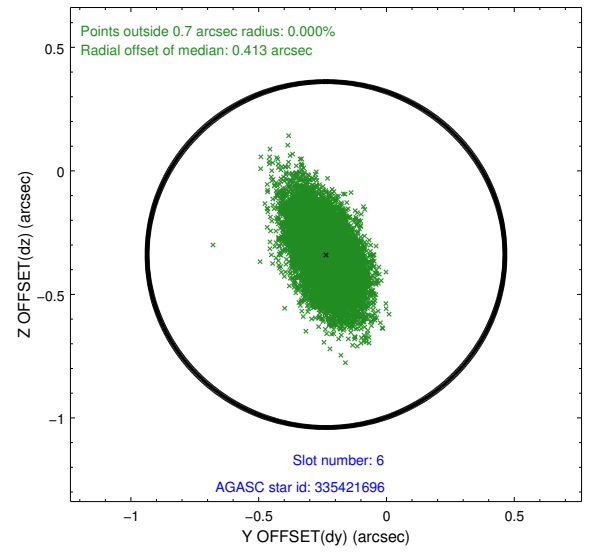
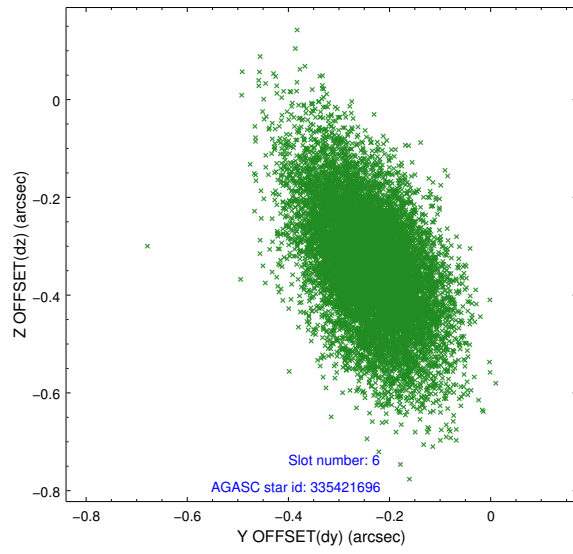
2.4.2 Slot 4



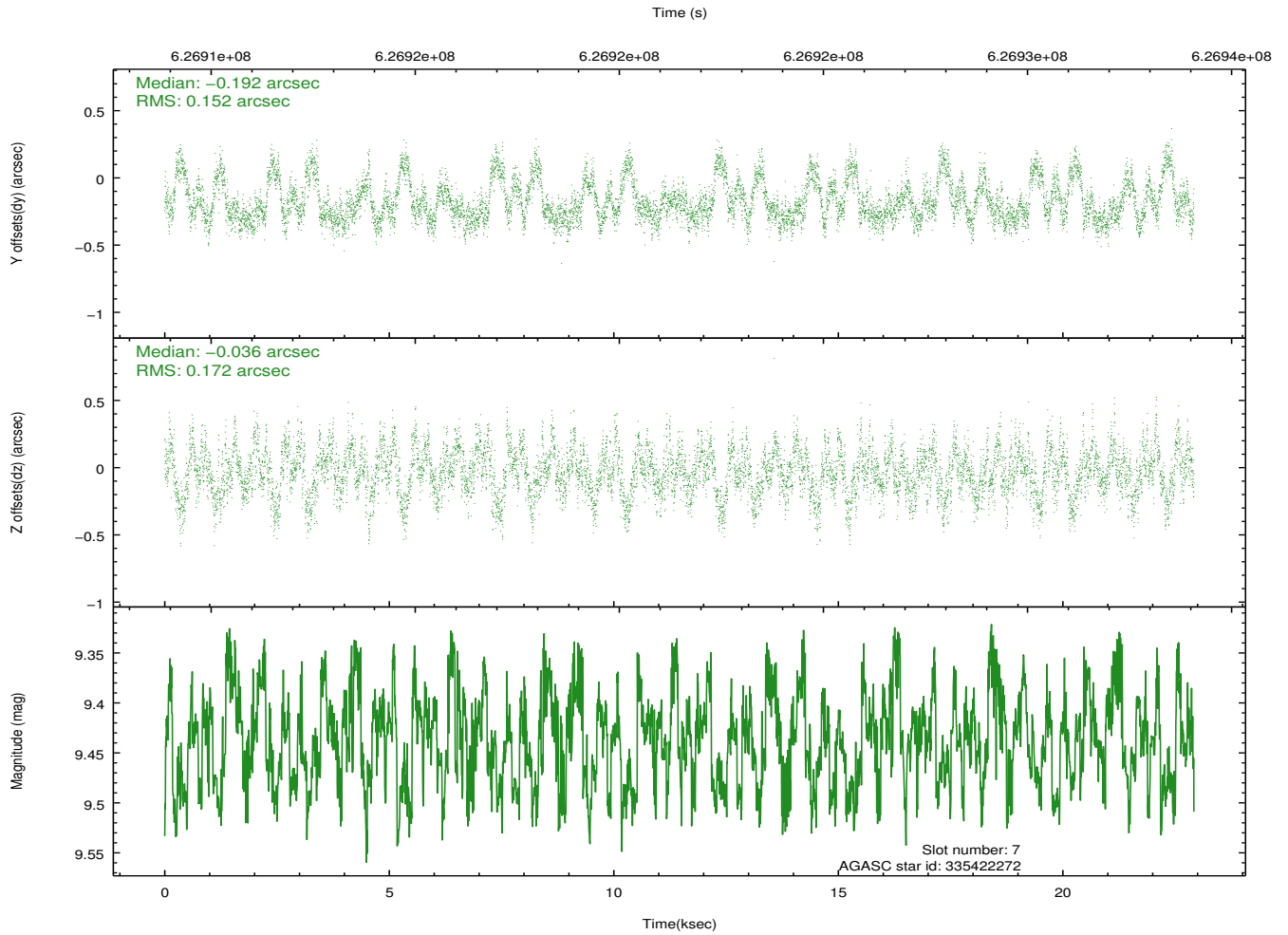
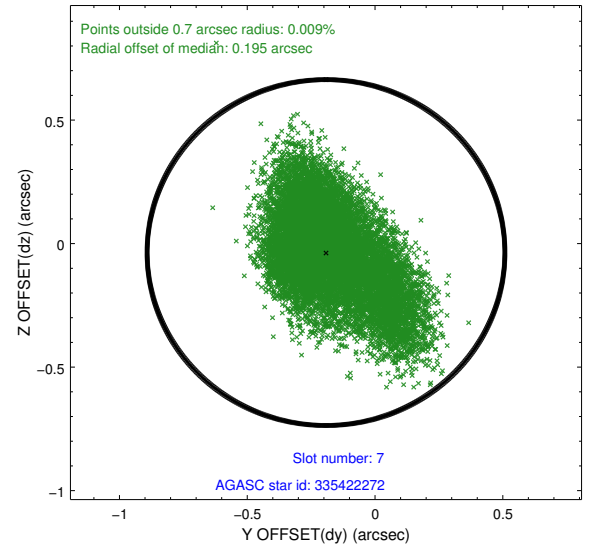
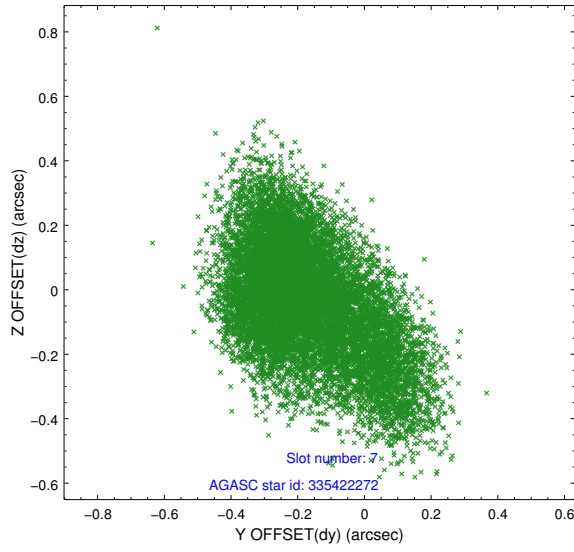
2.4.3 Slot 5



2.4.4 Slot 6

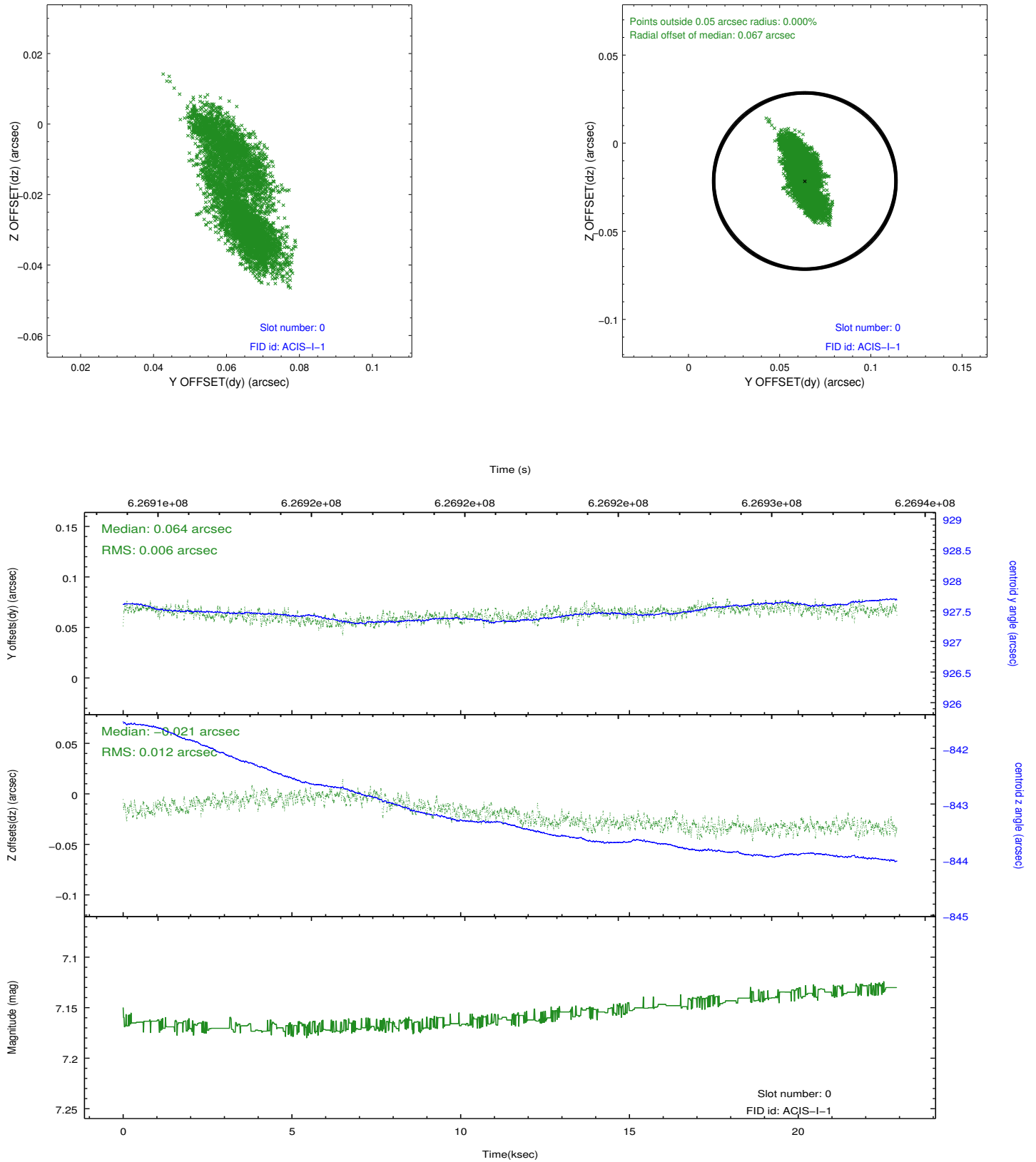


2.4.5 Slot 7

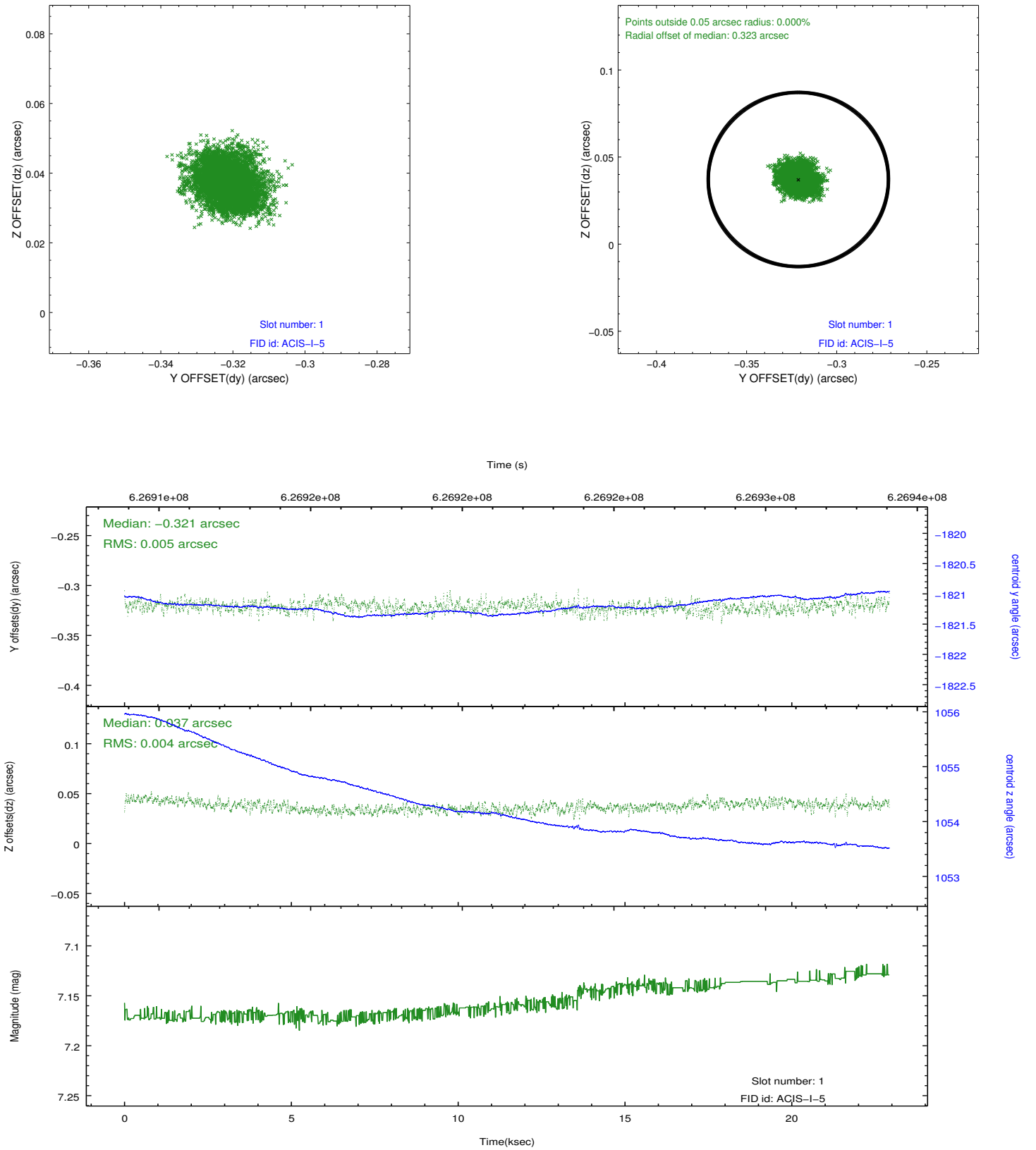


2.5 FID Slots

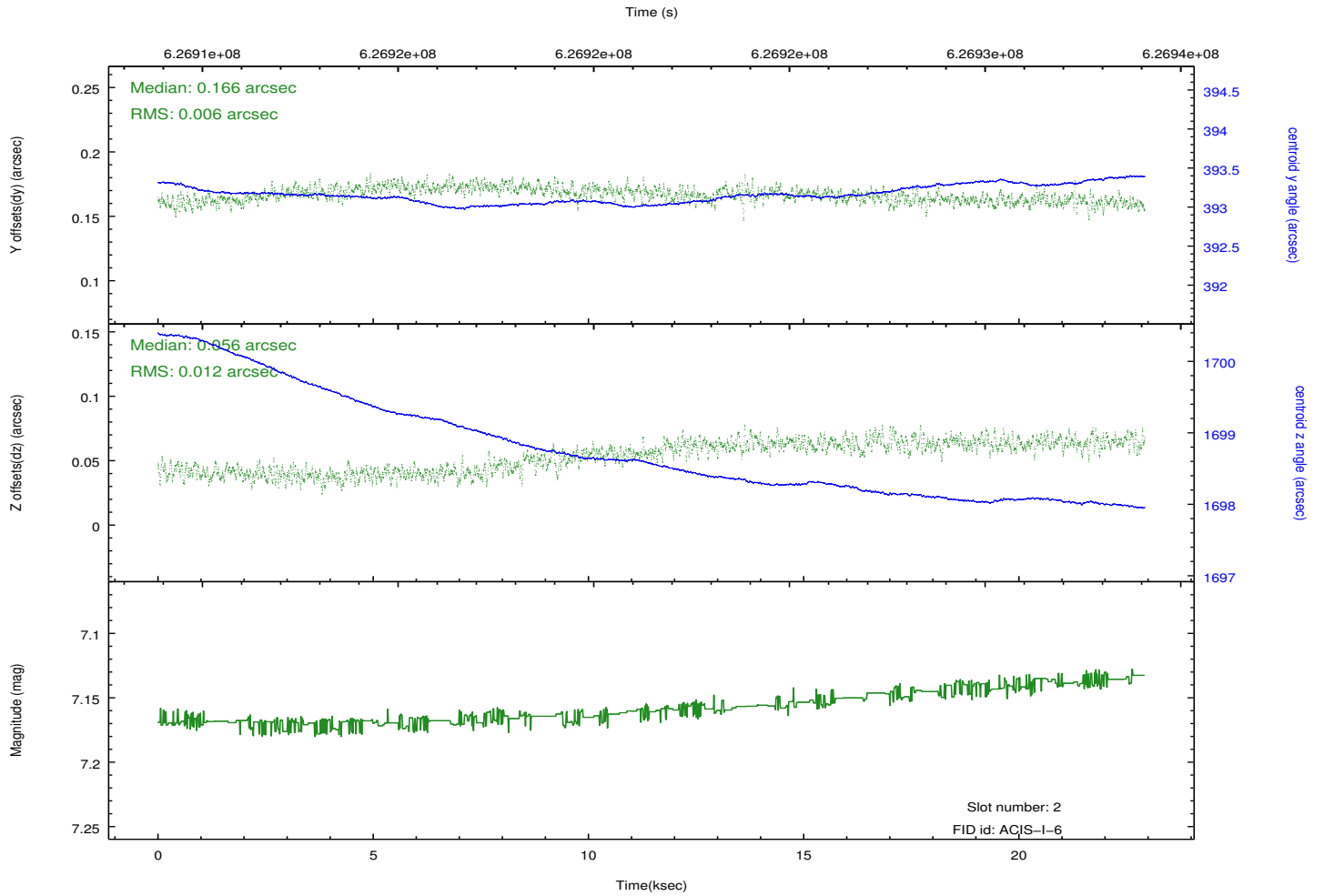
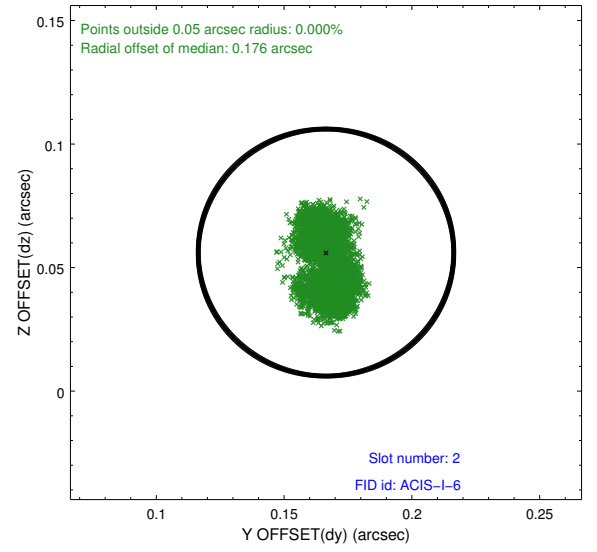
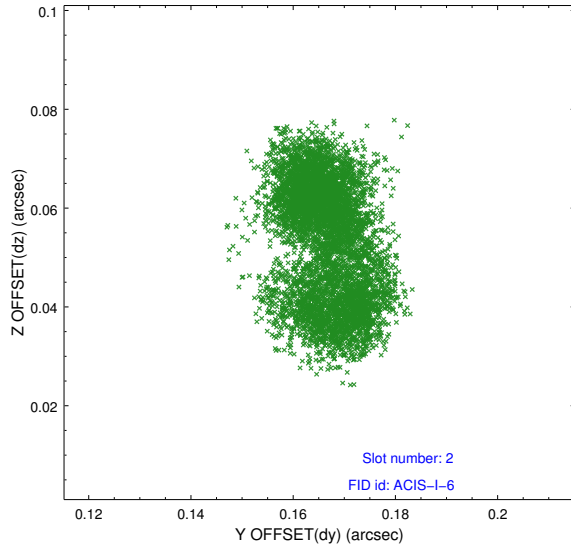
2.5.1 Slot 0



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)	2017.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.797063058972

A.2 Comments