

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22180 - L2 Version 1
Chandra X-Ray Center

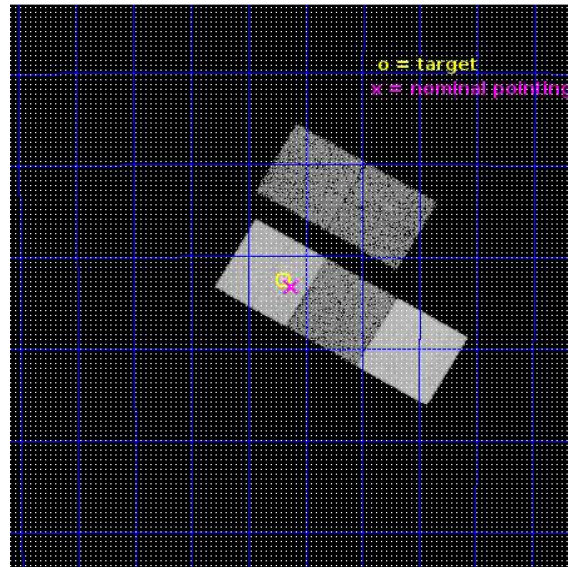
L2 Processing Date : Apr 20 2019

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1 Front

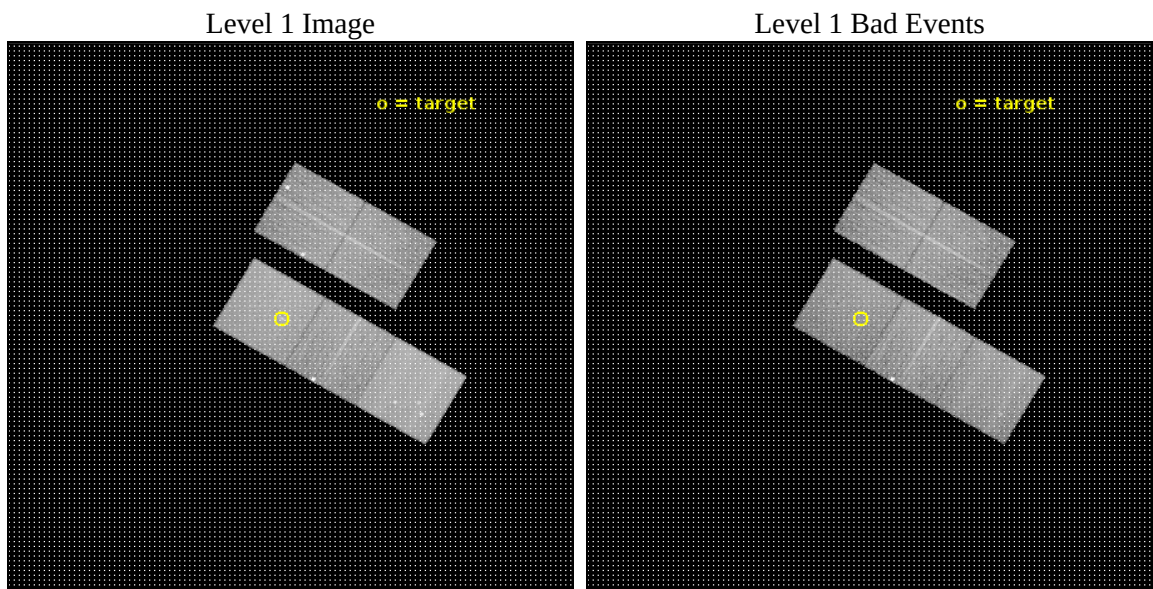
seq_num	601407	Sequence number
obs_id	22180	Observation id
title	What is sourcing gas motions in the core of NGC 1316?	Proposal tit
observer	Steve Allen	Principal investigator
object	NGC 1316	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	50.674167	Observer's specified target RA [deg]
dec_targ	-37.208333	Observer's specified target Dec [deg]
ra_nom	50.65555234092	Nominal RA [deg]
dec_nom	-37.221492076303	Nominal Dec [deg]
roll_nom	210.14542381064	Nominal Roll [deg]
revision	1	Processing version of data
ontime	13753.59980166	Sum of GTIs [s]
livetime	13573.898894998	Livetime [s]
ontime2	13747.15378058	Sum of GTIs [s]
ontime3	13753.476681709	Sum of GTIs [s]
ontime5	13753.558761716	Sum of GTIs [s]
ontime6	13753.517721653	Sum of GTIs [s]
ontime7	13753.59980166	Sum of GTIs [s]
l2events	165394	Number of level 2 events



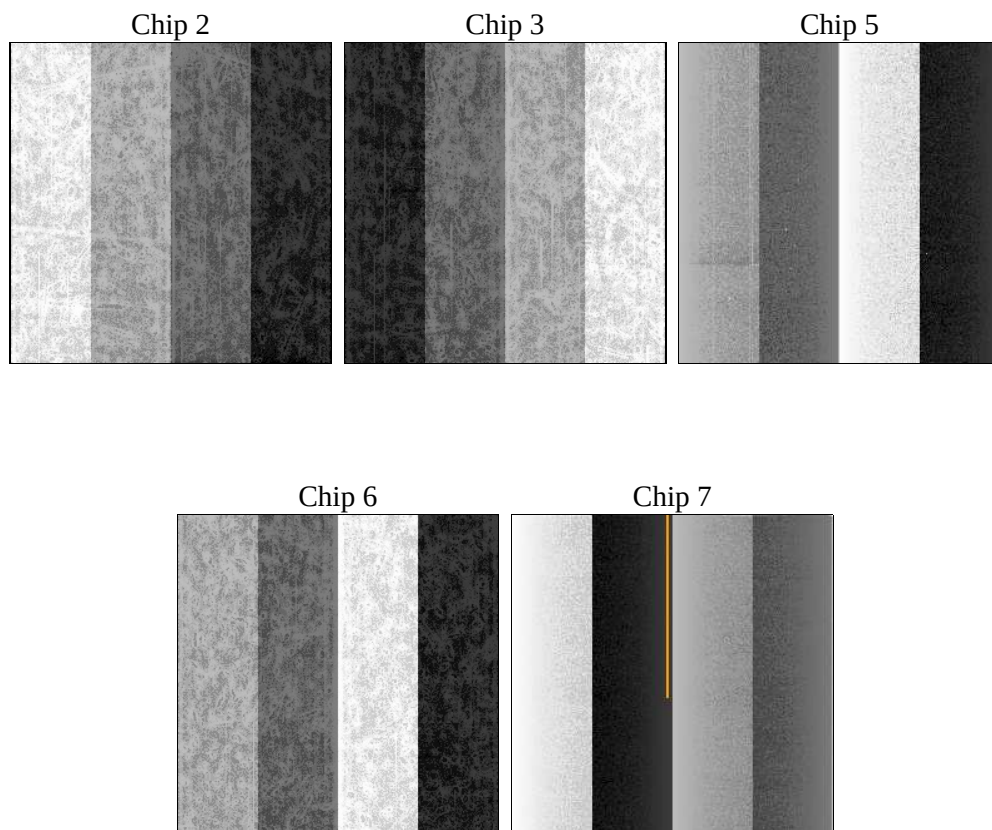
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	13700.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	13753.59980166	Sum of GTIs [s]
caldsver	4.8.2	 	ontime2	13747.15378058	Sum of GTIs [s]
date	2019-04-20T23:18:40	Date and time of file creation	ontime3	13753.476681709	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	13753.558761716	Sum of GTIs [s]
			ontime6	13753.517721653	Sum of GTIs [s]
			ontime7	13753.59980166	Sum of GTIs [s]
			l1events	640829	Number of level 1 events

2.1.4 Events

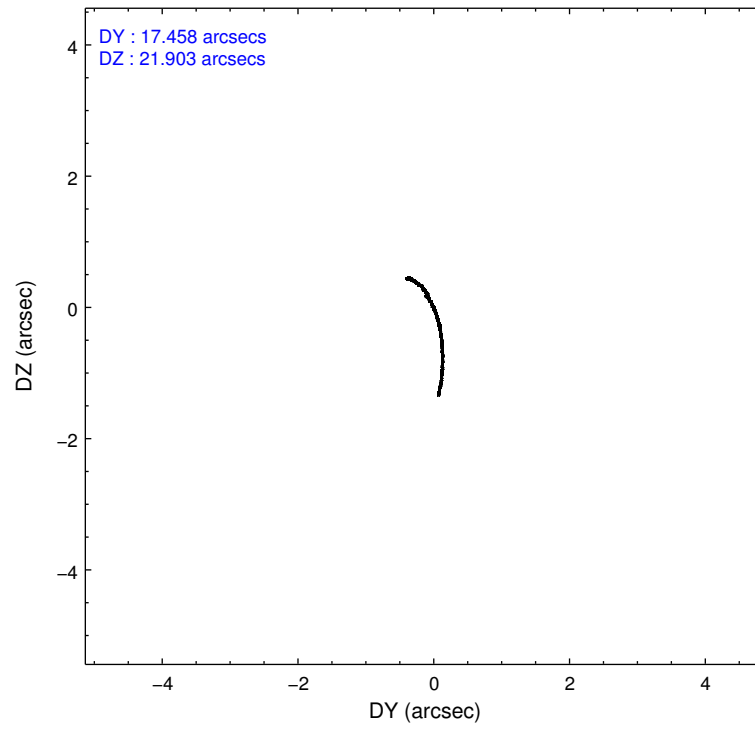
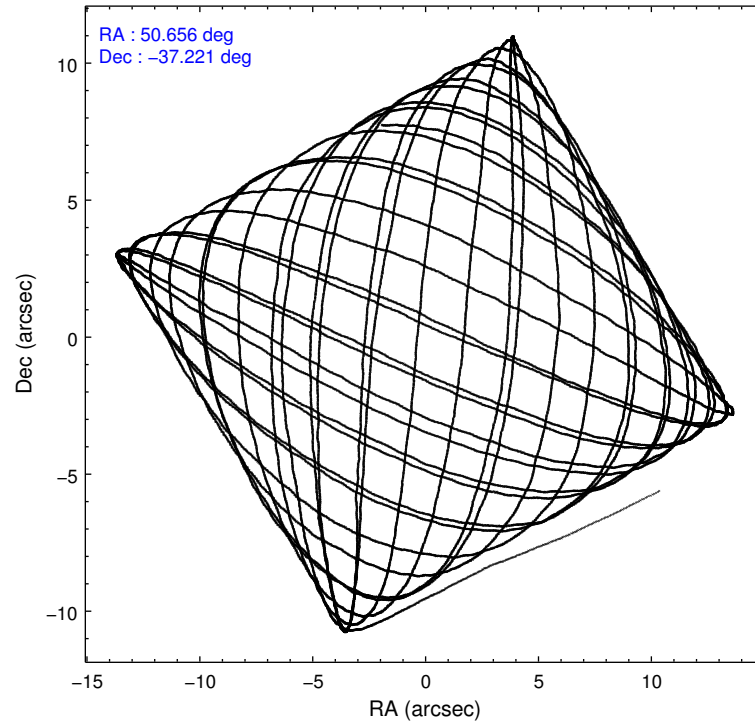
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	105284	112182	170231	116048	137084
rejected events	94118	94497	88636	103854	76283
rejected %	89%	84%	52%	89%	55%

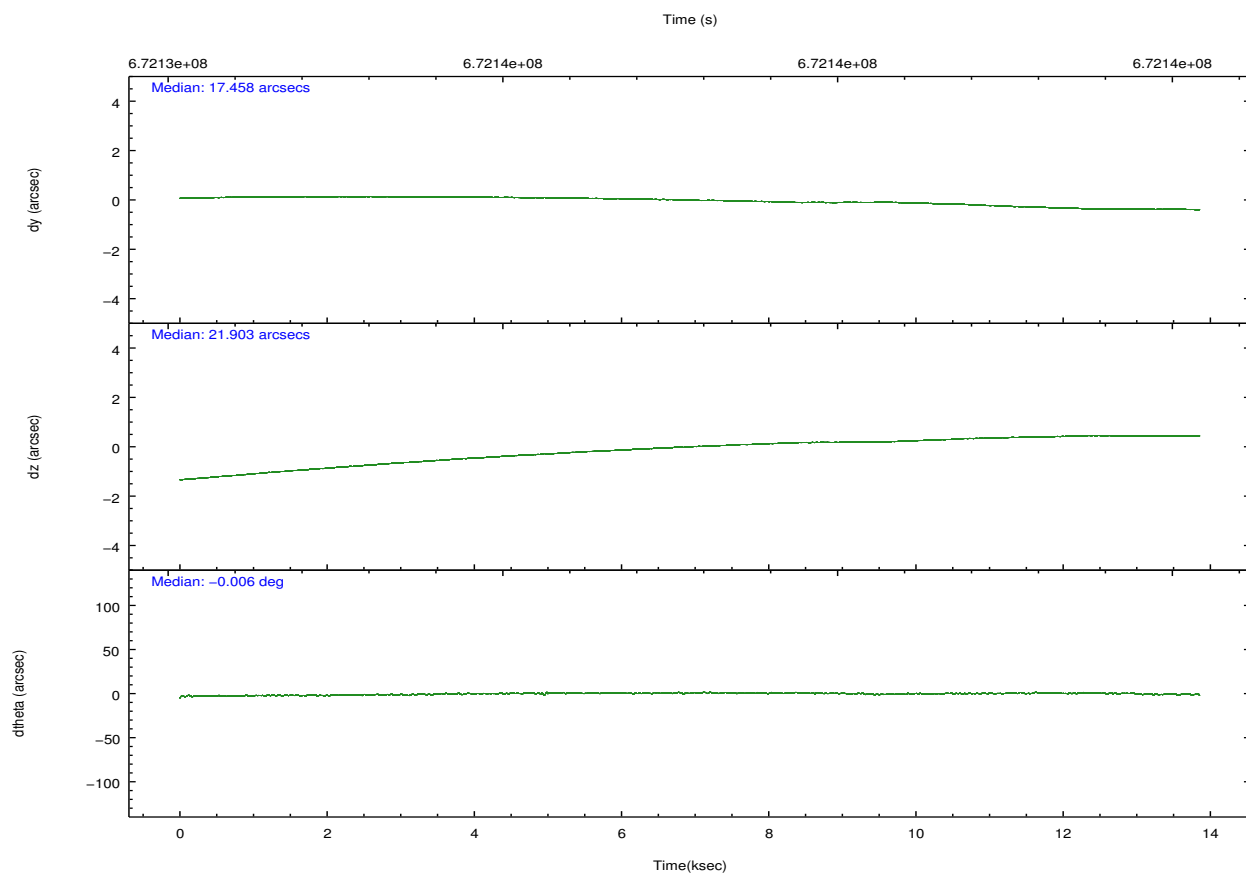
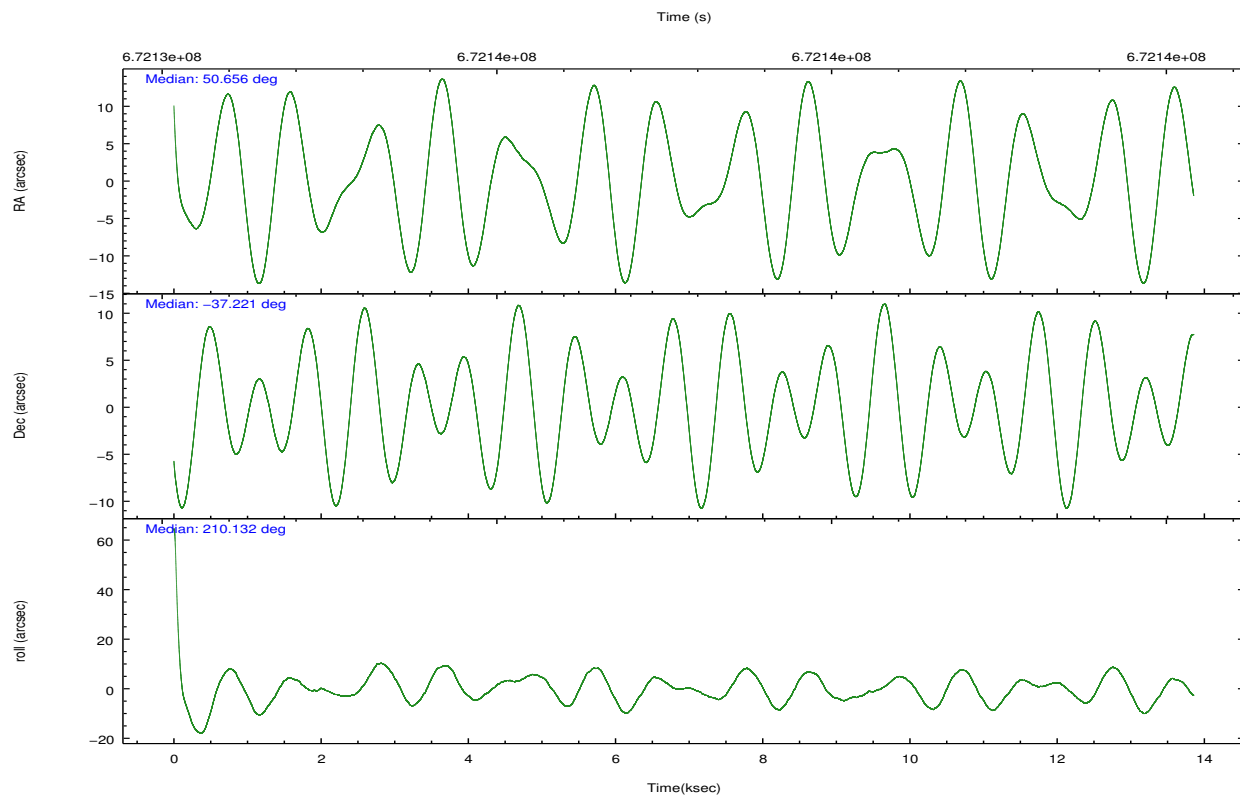
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4063	10779	6654	3938	5744
	3%	9%	3%	3%	4%
grade 1 events	40	118	844	4253	183
	0%	0%	0%	3%	0%
grade 2 events	2669	2334	25373	3072	12846
	2%	2%	14%	2%	9%
grade 3 events	1157	1155	2403	1108	4742
	1%	1%	1%	0%	3%
grade 4 events	1113	1157	2349	1077	4608
	1%	1%	1%	0%	3%
grade 5 events	3877	4728	11011	4756	13398
	3%	4%	6%	4%	9%
grade 6 events	2167	2264	44831	3001	32874
	2%	2%	26%	2%	23%
grade 7 events	90198	89647	76766	94843	62689
	85%	79%	45%	81%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	50.672279	50.65555234091954	CCD I2 on	O1	Y
[deg] Pointing Dec	-37.197494	-37.22149207630304	CCD I3 on	Y	Y
[deg] Pointing Roll	209.998853	210.1454238106386	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	N	N
[s] Observation start time (MET)	672131039.184000	672129415.43901	CCD S5 on	N	N
Observation start date	2019-04-20T07:02:50	2019-04-20T06:36:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	672144739.184000	672146123.45251	On-chip summing requested	N	N
Observation end date	2019-04-20T10:51:10	2019-04-20T11:15:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



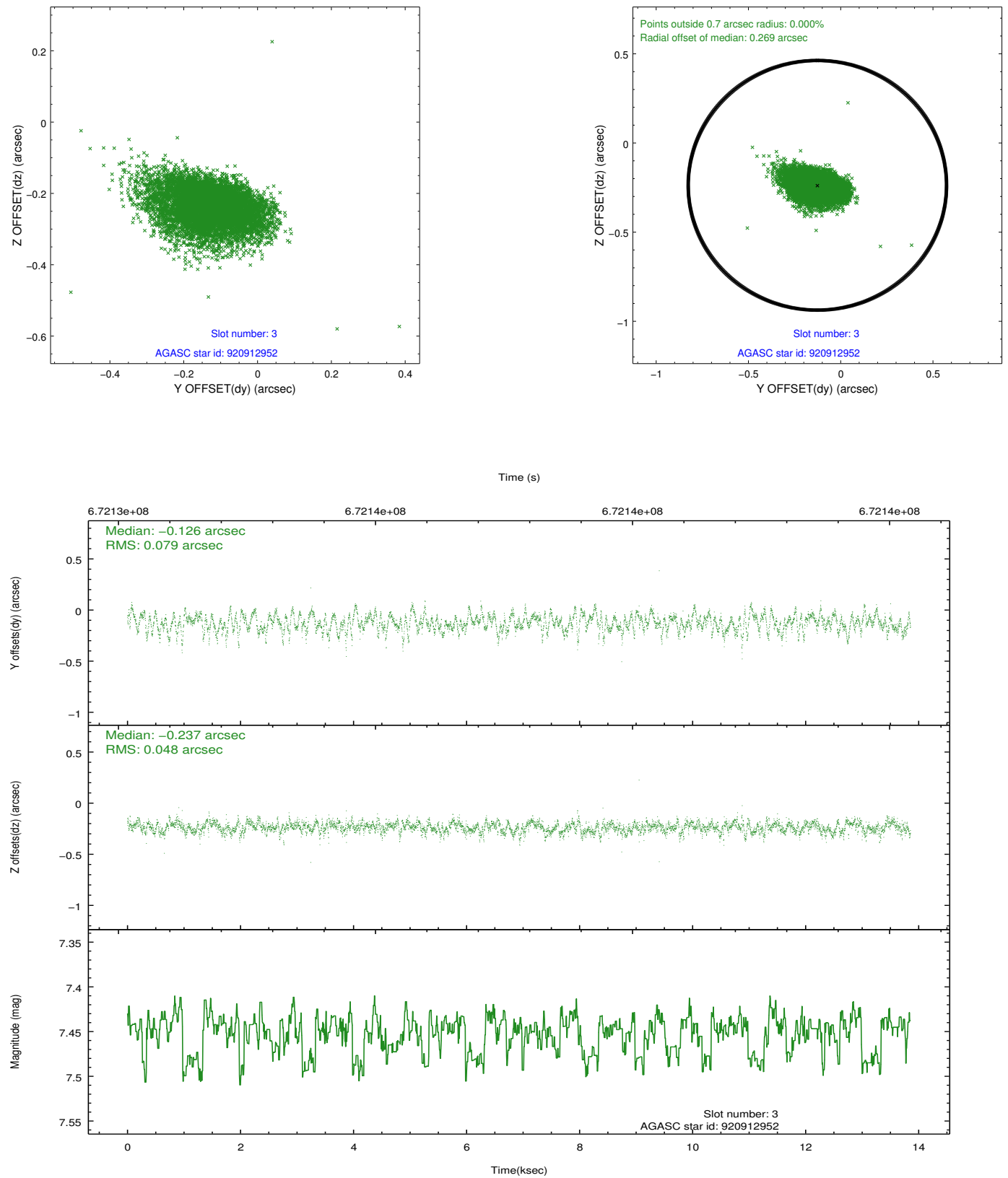


Slot Statistics

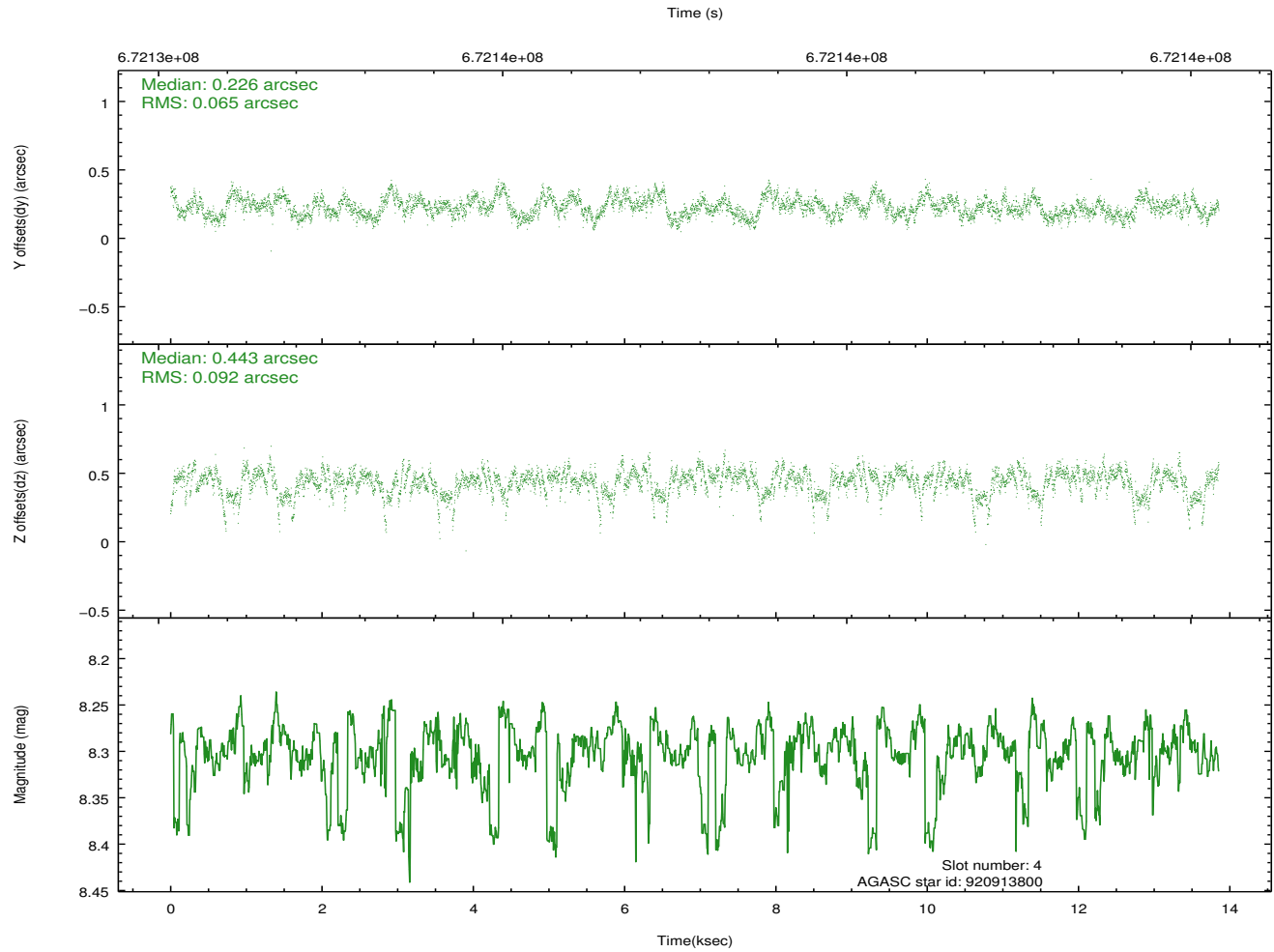
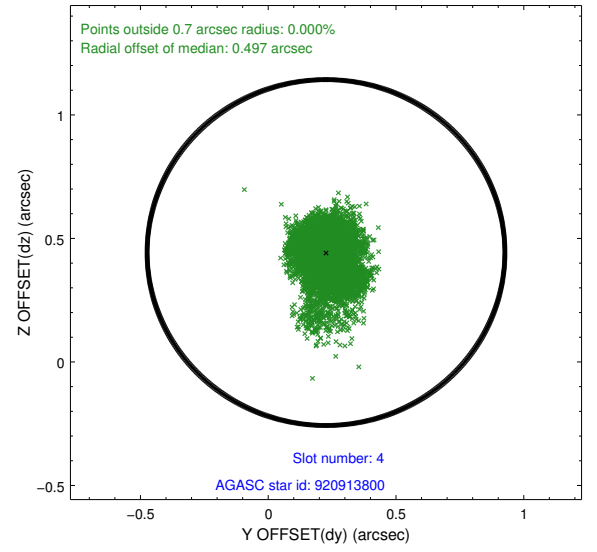
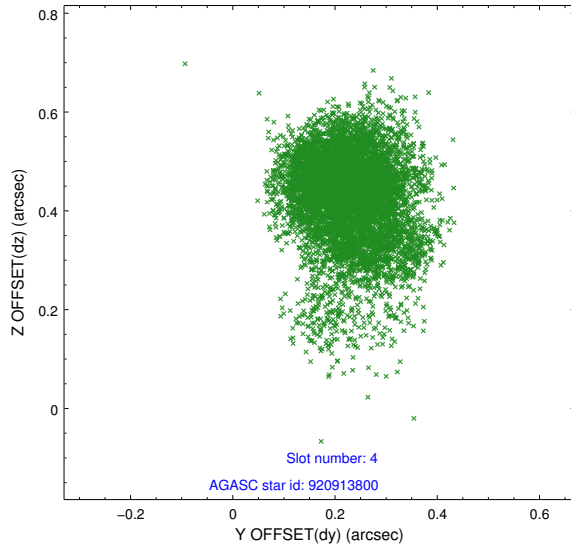
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	3380	1.000	-0.330	-0.278	0.017	0.025	0.000000	0.000000	-770.72	-1743
1	FID		ACIS-S-4	7.23	3380	1.000	0.799	0.234	0.014	0.025	0.000000	0.000000	2143.47	165
2	FID		ACIS-S-5	7.21	3380	1.000	-0.499	0.054	0.015	0.025	0.000000	0.000000	-1823.35	158
3	GUIDE	used	920912952	7.45	6758	1.000	-0.126	-0.237	0.093	0.165	50.997738	-37.170324	-855.29	384
4	GUIDE	used	920913800	8.30	6756	1.000	0.226	0.443	0.112	0.201	50.699964	-36.577710	-1184.23	-1890
5	GUIDE	used	920916000	8.36	6753	1.000	-0.096	-0.043	0.138	0.230	50.151900	-36.775522	543.22	-2061
6	GUIDE	used	921043784	7.56	6759	1.000	-0.008	0.054	0.109	0.186	51.303384	-37.152691	-1645.62	771
7	GUIDE	used	921043944	8.66	6754	1.000	0.001	-0.193	0.135	0.237	51.008576	-37.283287	-678.57	751

2.4 Star Slots

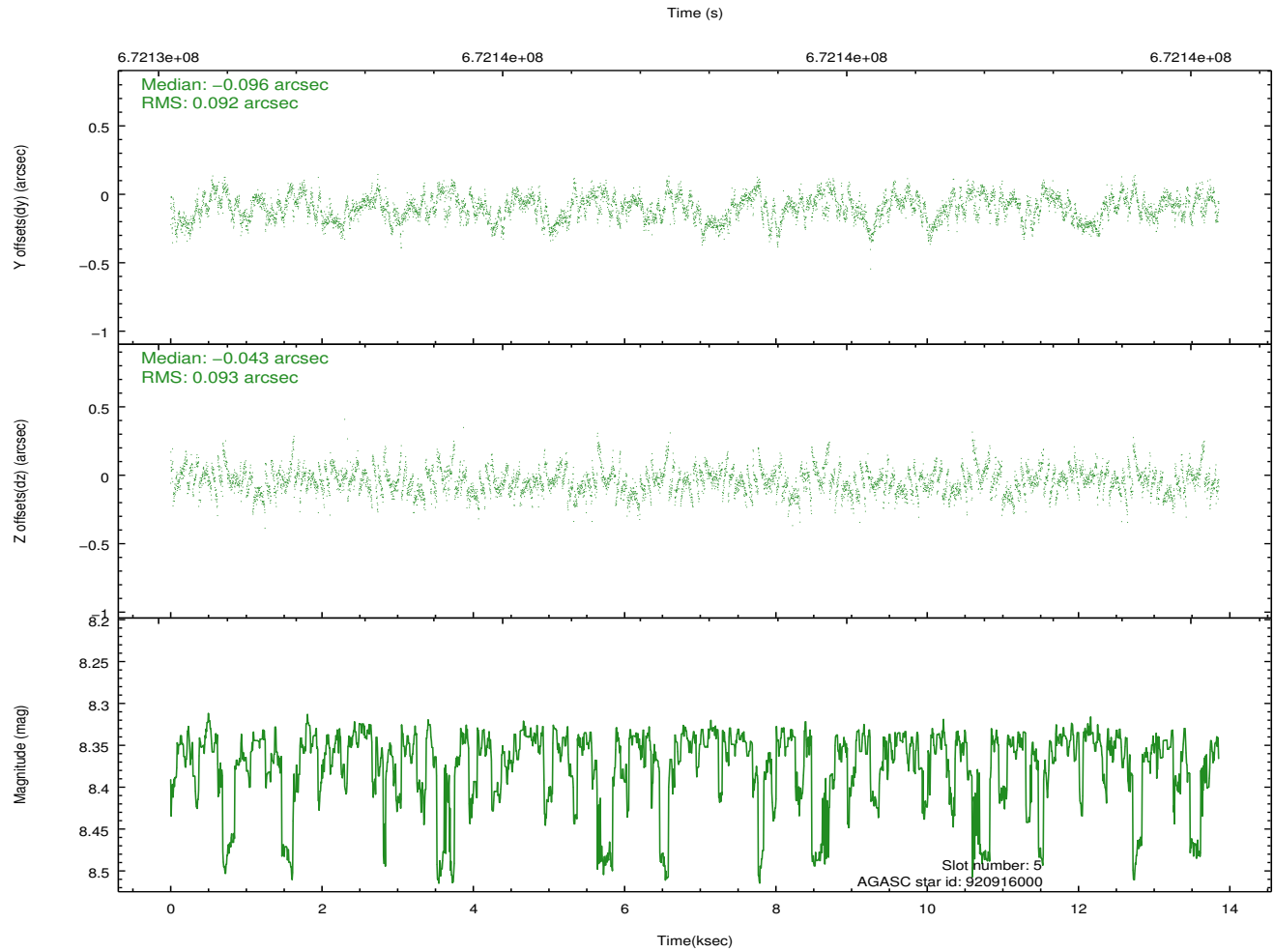
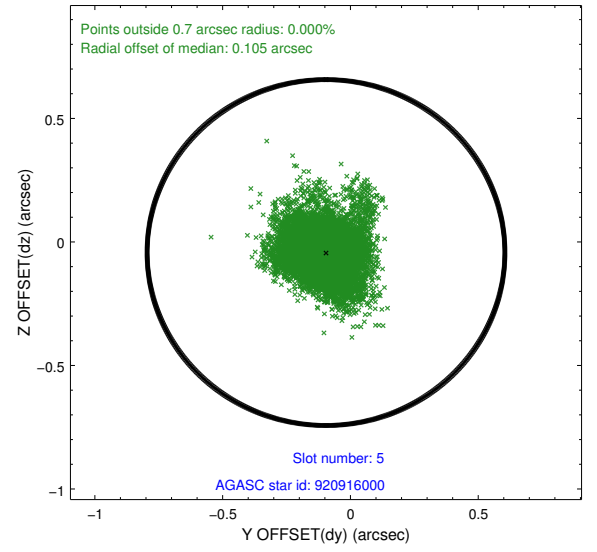
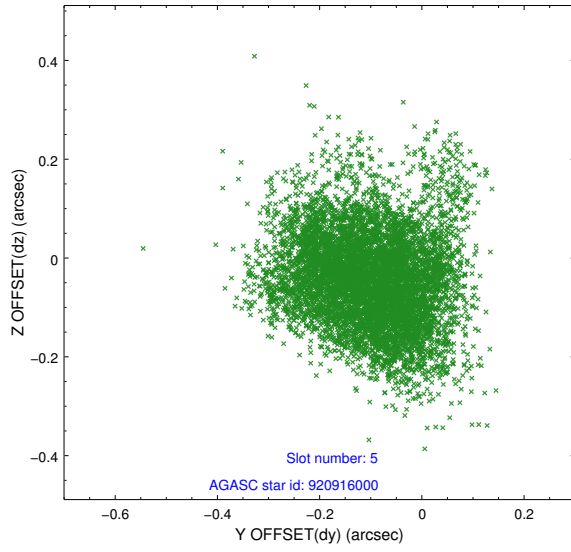
2.4.1 Slot 3



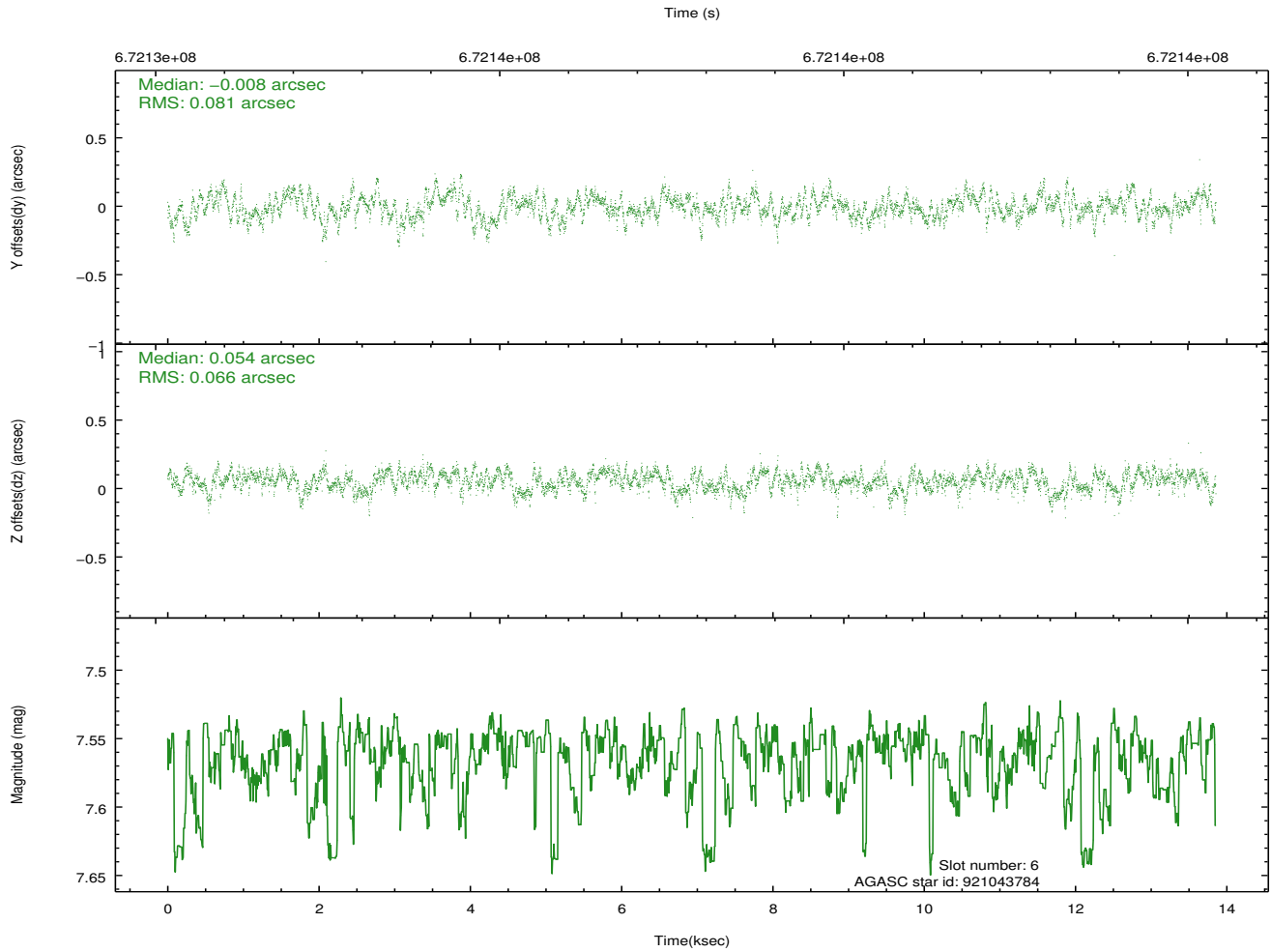
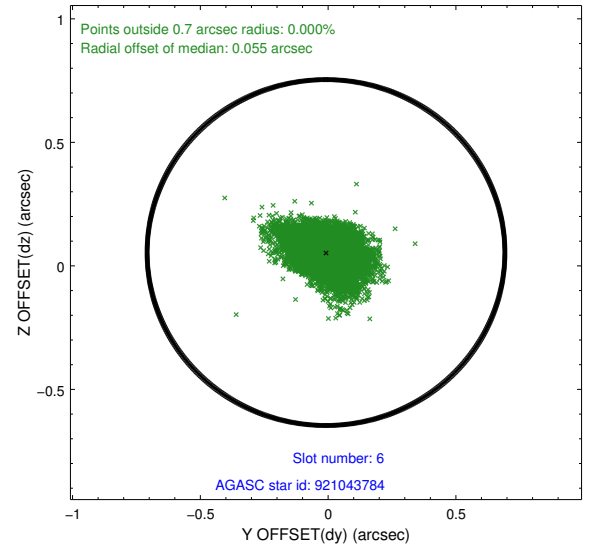
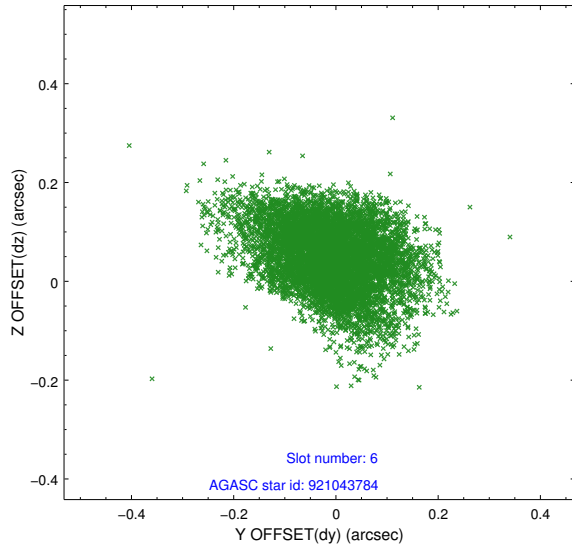
2.4.2 Slot 4



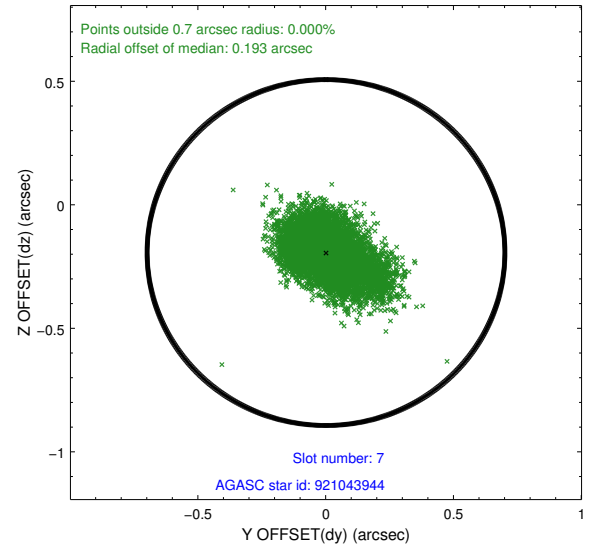
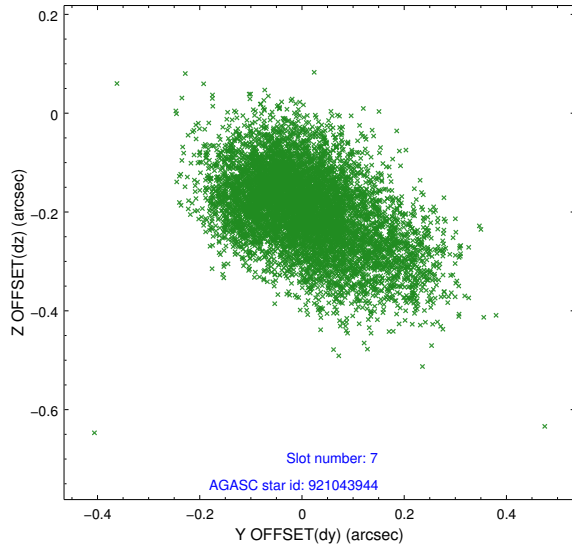
2.4.3 Slot 5



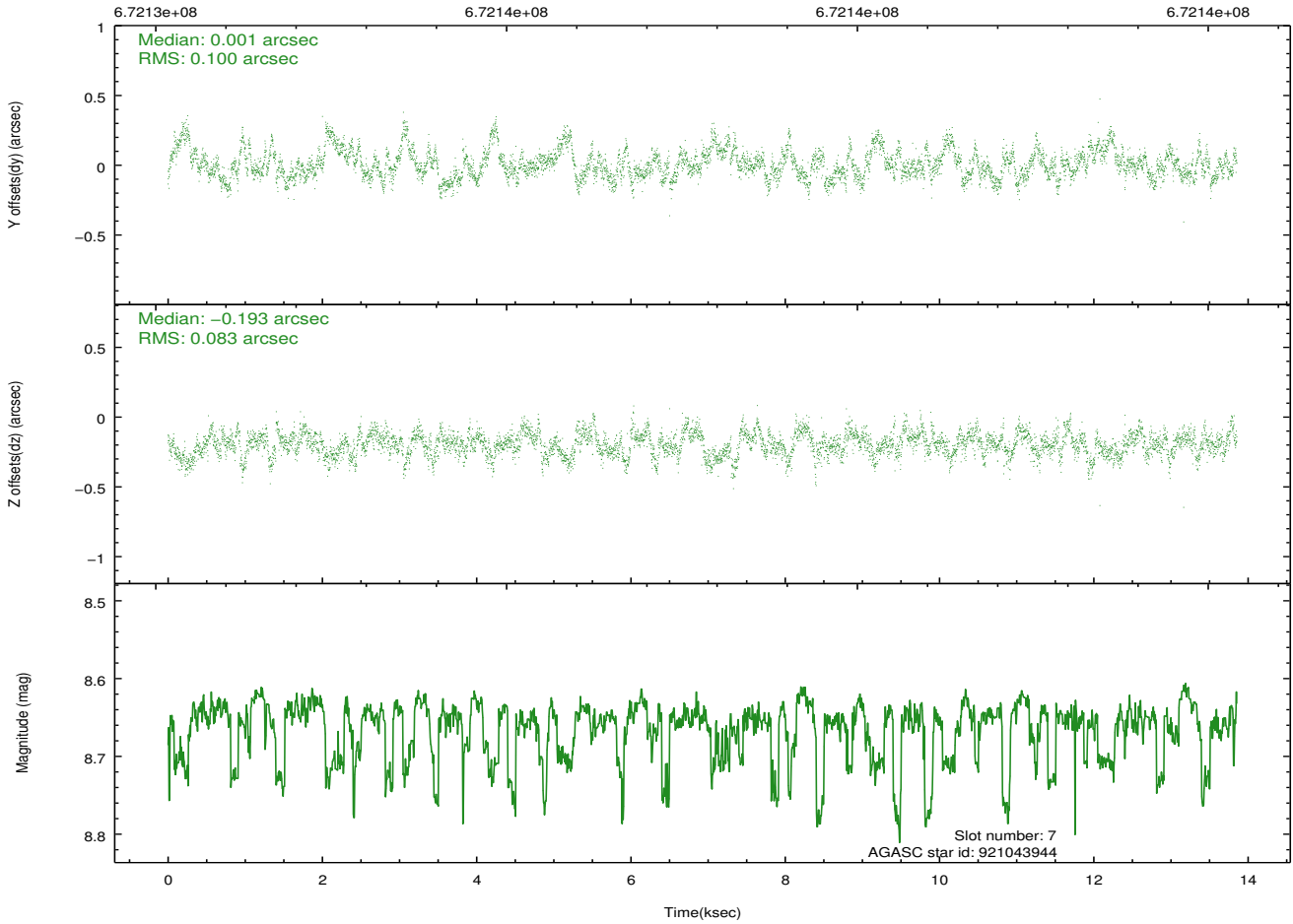
2.4.4 Slot 6



2.4.5 Slot 7

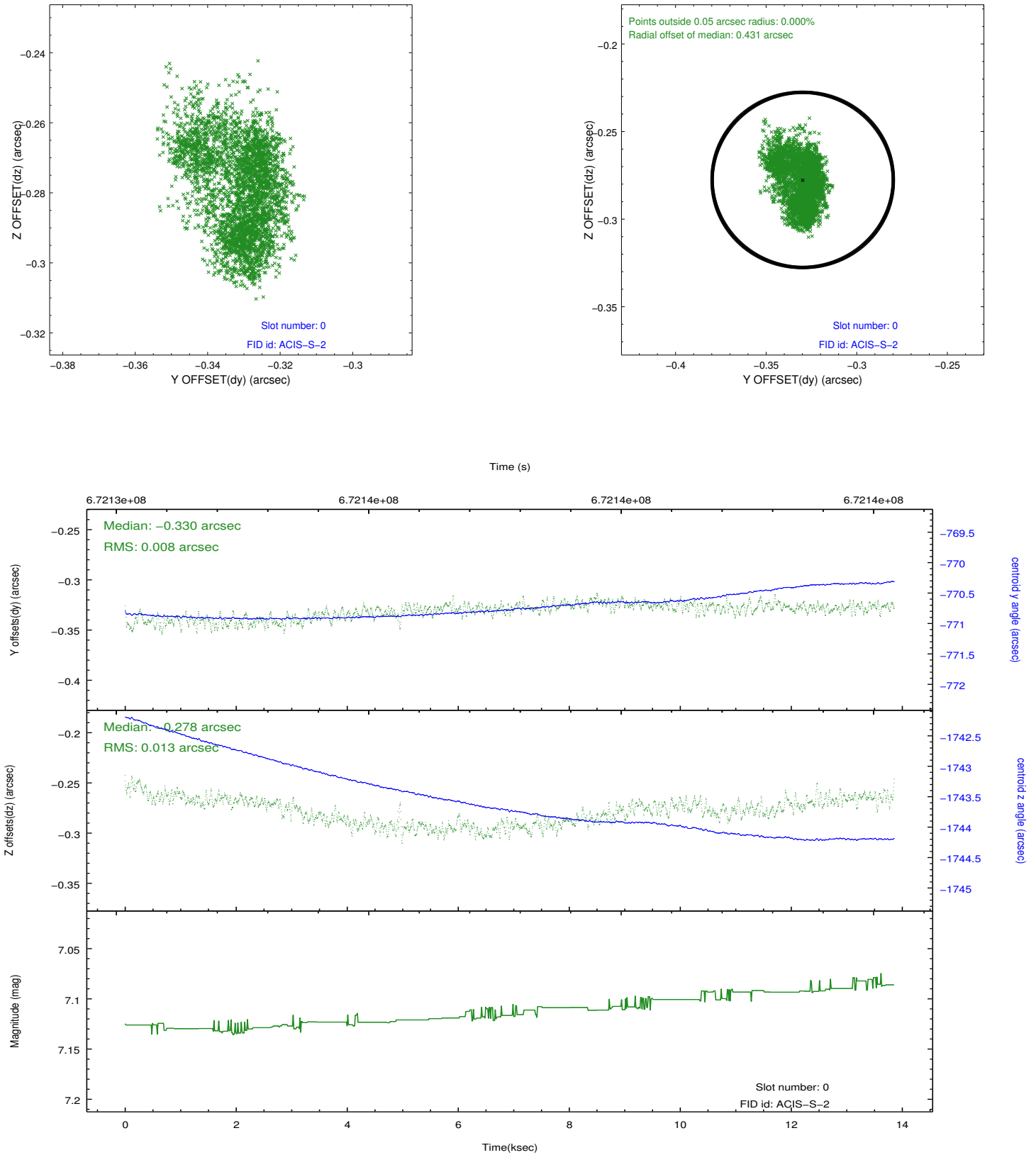


Time (s)

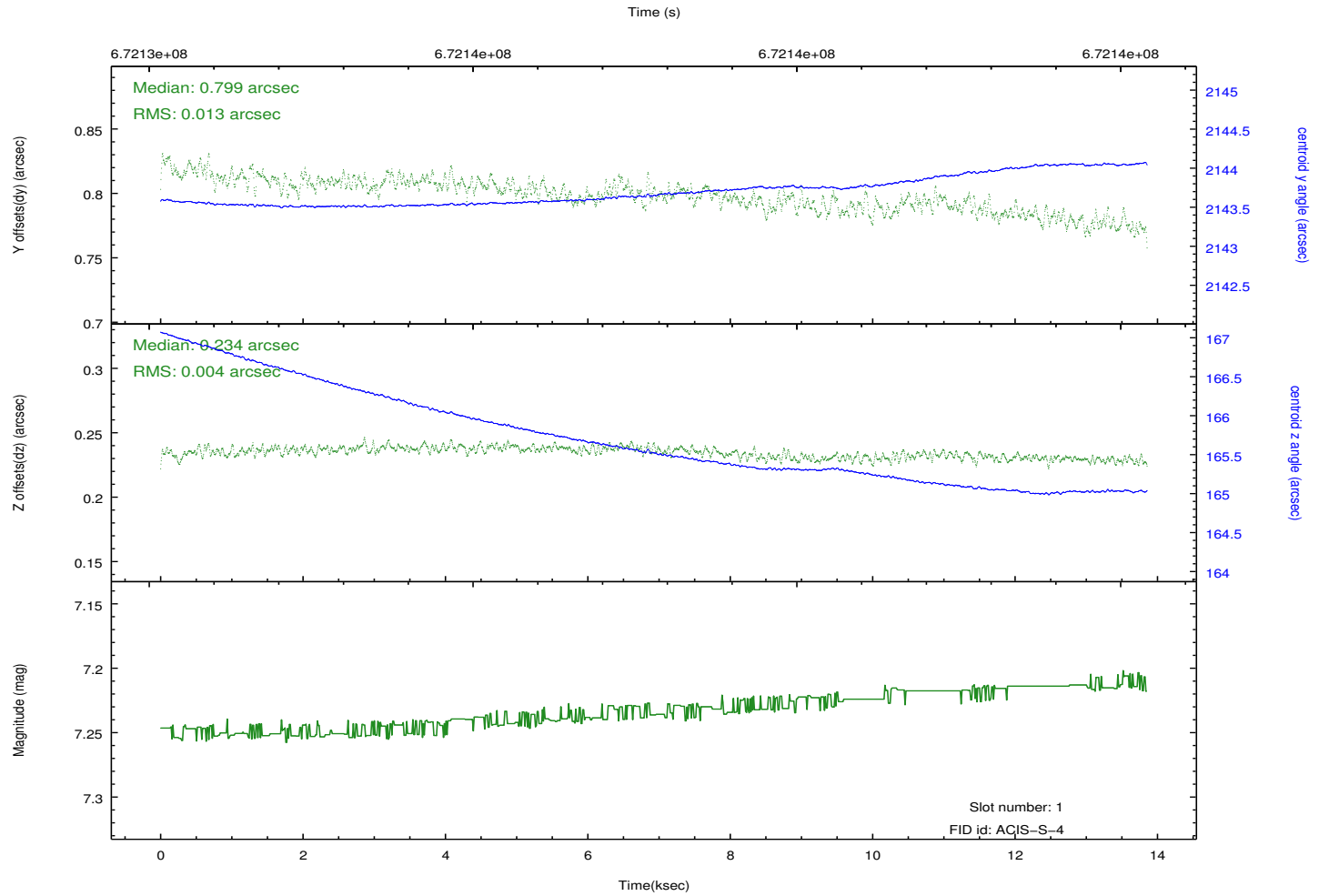
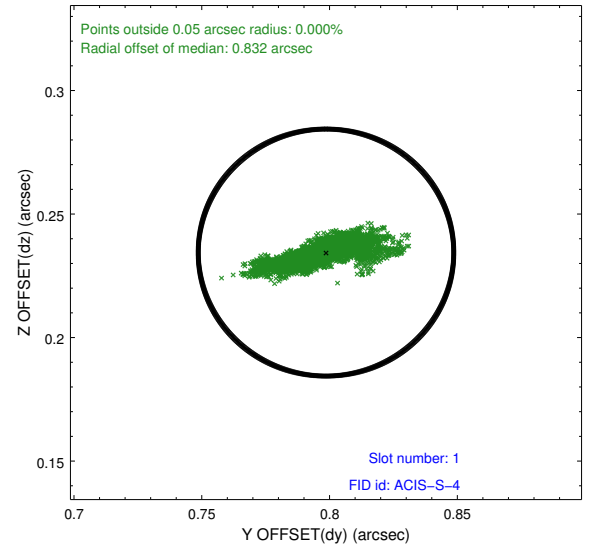
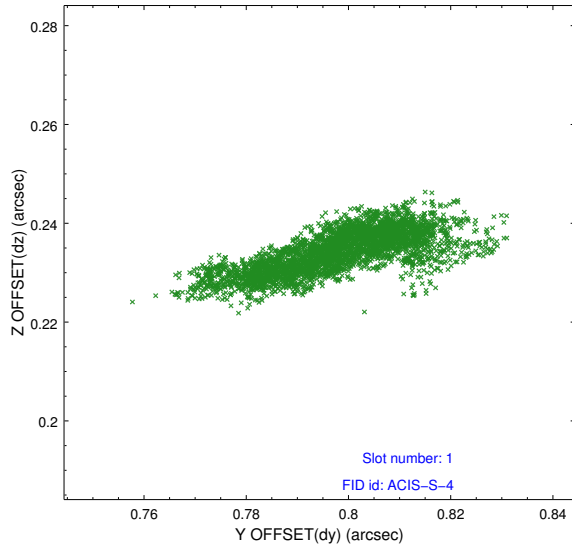


2.5 FID Slots

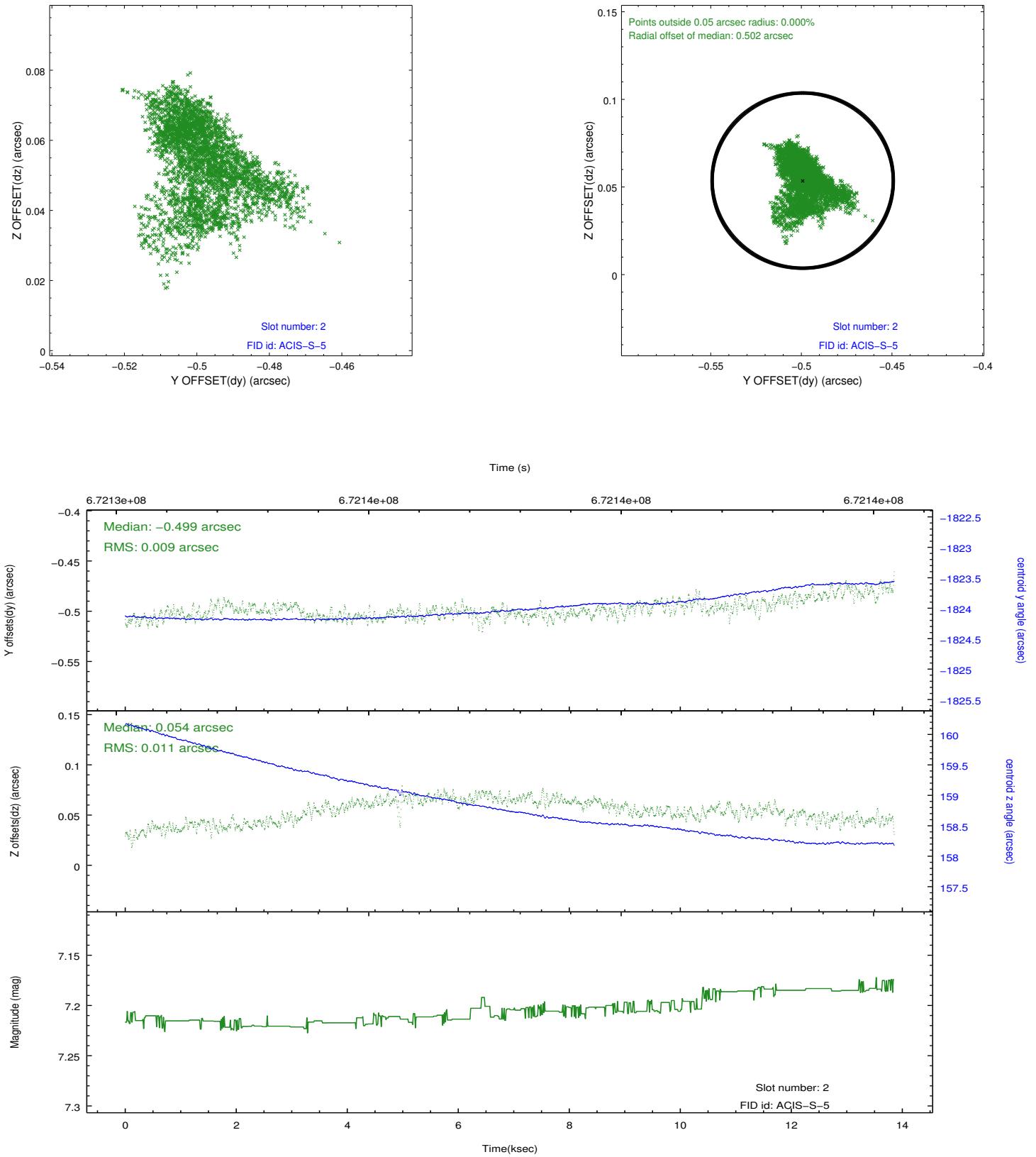
2.5.1 Slot 0



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)	2019.04.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.75359980166

A.2 Comments