

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 20340 - L2 Version 1
Chandra X-Ray Center

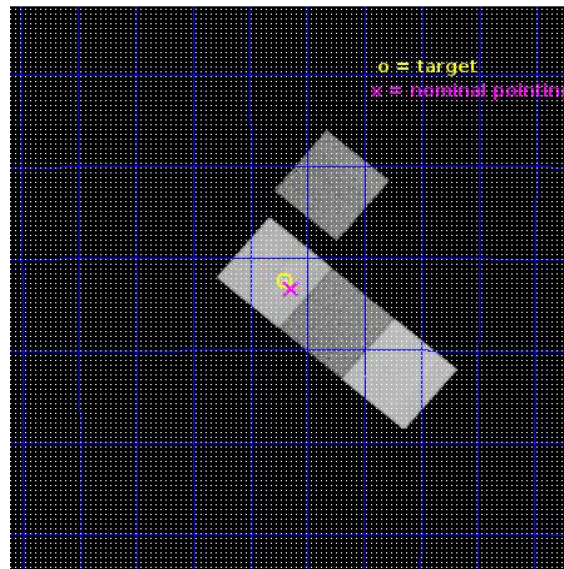
L2 Processing Date : Apr 17 2019

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1 Front

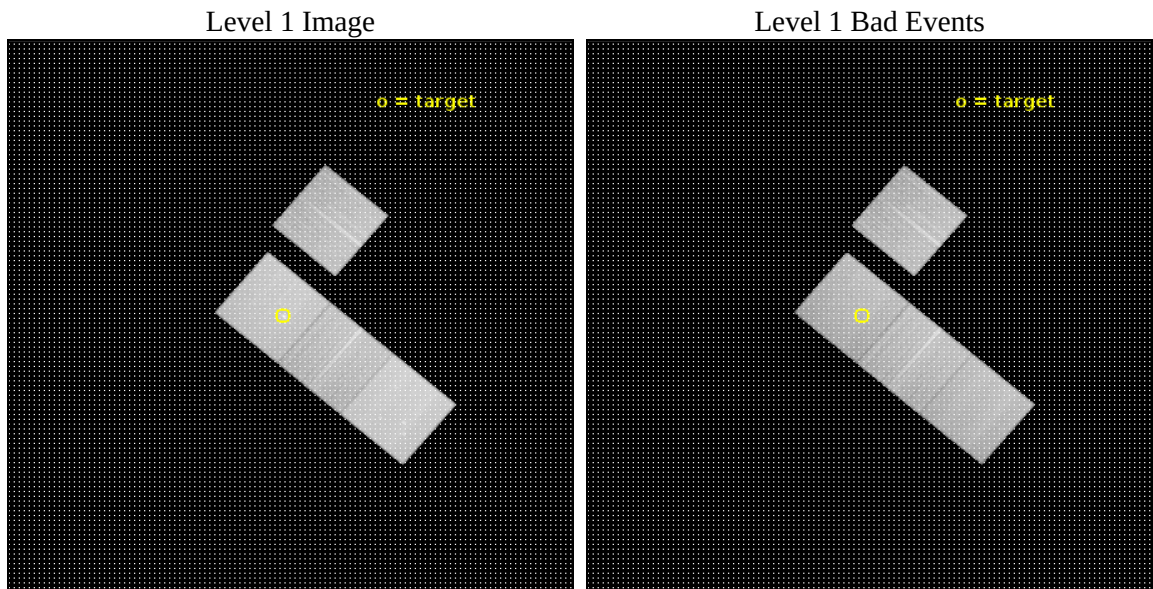
seq_num	601407	Sequence number
obs_id	20340	Observation id
title	What is sourcing gas motions in the core of NGC 1316?	Proposal tit
observer	Steve Allen	Principal investigator
object	NGC 1316	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	50.674167	Observer's specified target RA [deg]
dec_targ	-37.208333	Observer's specified target Dec [deg]
ra_nom	50.659659636454	Nominal RA [deg]
dec_nom	-37.222168723118	Nominal Dec [deg]
roll_nom	220.14784607867	Nominal Roll [deg]
revision	1	Processing version of data
ontime	45560.700350523	Sum of GTIs [s]
livetime	44965.416259144	Livetime [s]
ontime3	45560.700350523	Sum of GTIs [s]
ontime5	45560.700350523	Sum of GTIs [s]
ontime6	45554.41839993	Sum of GTIs [s]
ontime7	45560.700350523	Sum of GTIs [s]
l2events	524874	Number of level 2 events



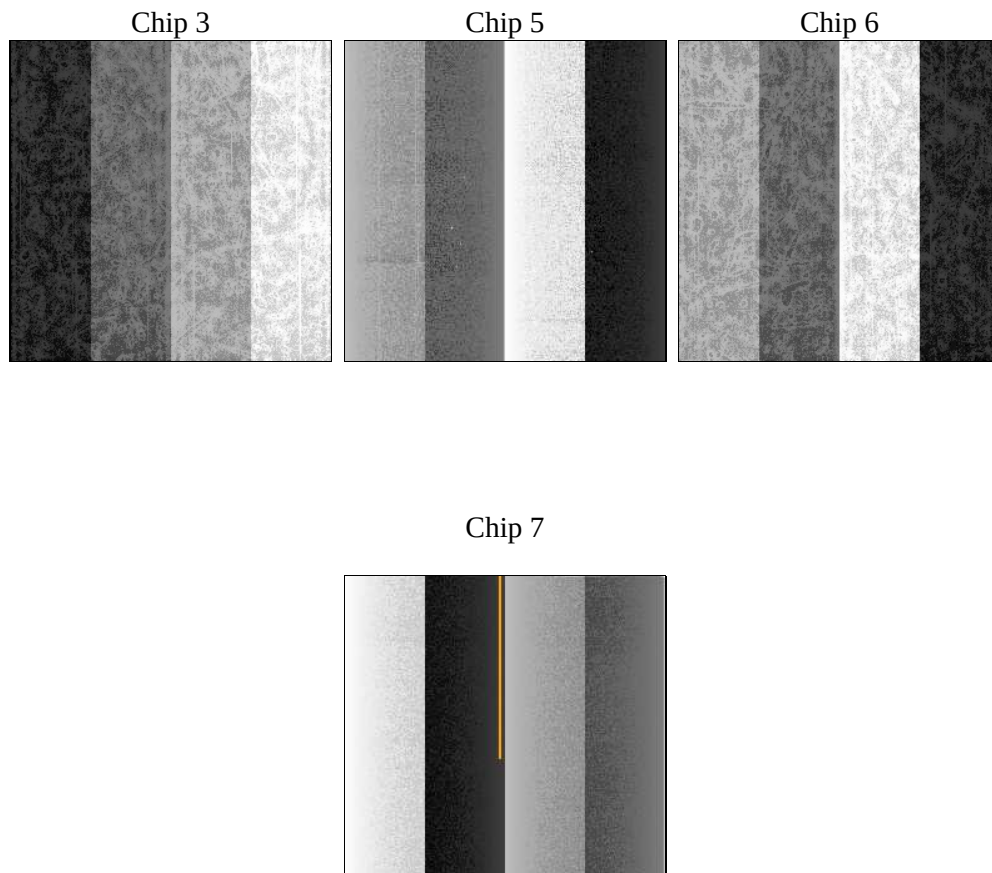
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45500.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	45560.700350523	Sum of GTIs [s]
caldsver	4.8.2	 	ontime3	45560.700350523	Sum of GTIs [s]
date	2019-04-17T03:41:35	Date and time of file creation	ontime5	45560.700350523	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	45554.41839993	Sum of GTIs [s]
			ontime7	45560.700350523	Sum of GTIs [s]
			l1events	1694154	Number of level 1 events

2.1.4 Events

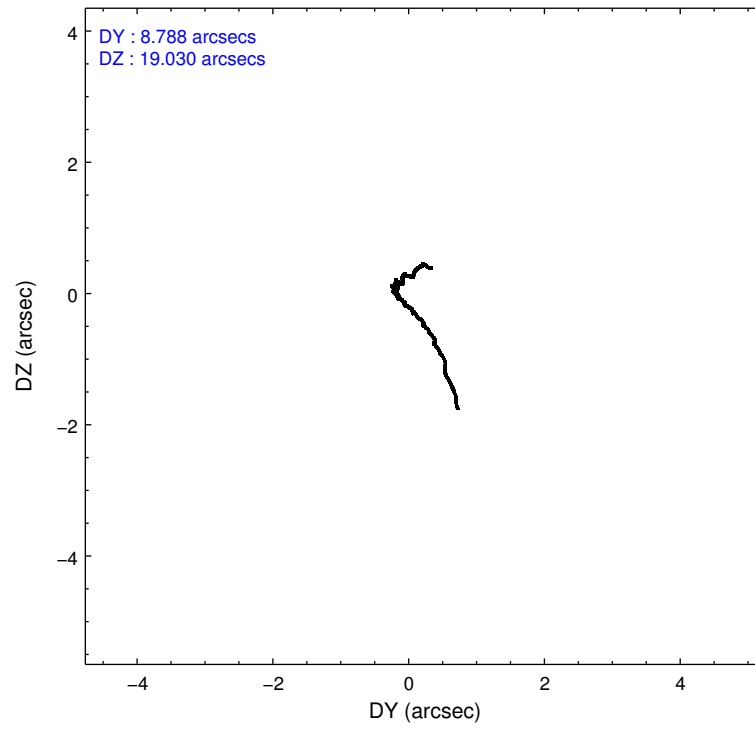
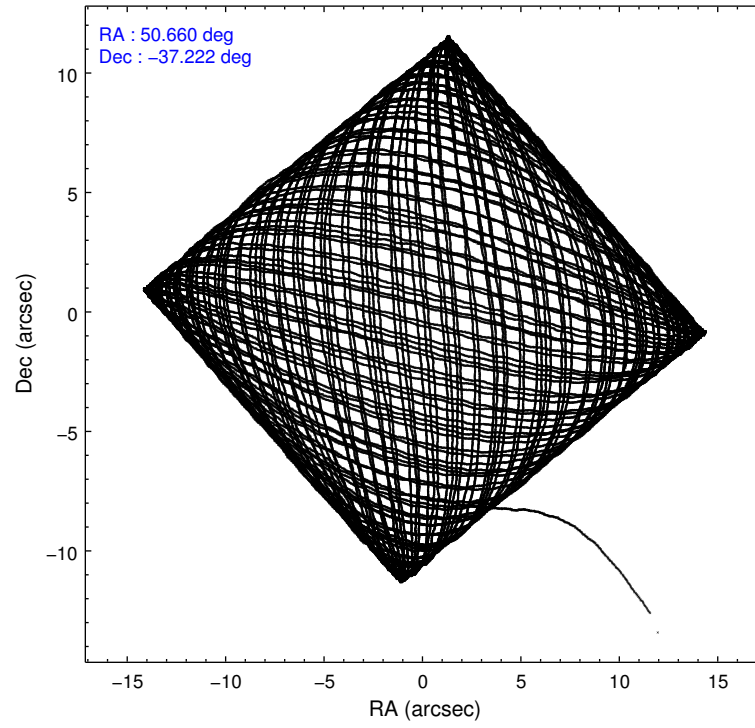
	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	338035	547284	356276	452559
rejected events	299748	284024	315105	250138
rejected %	88%	51%	88%	55%

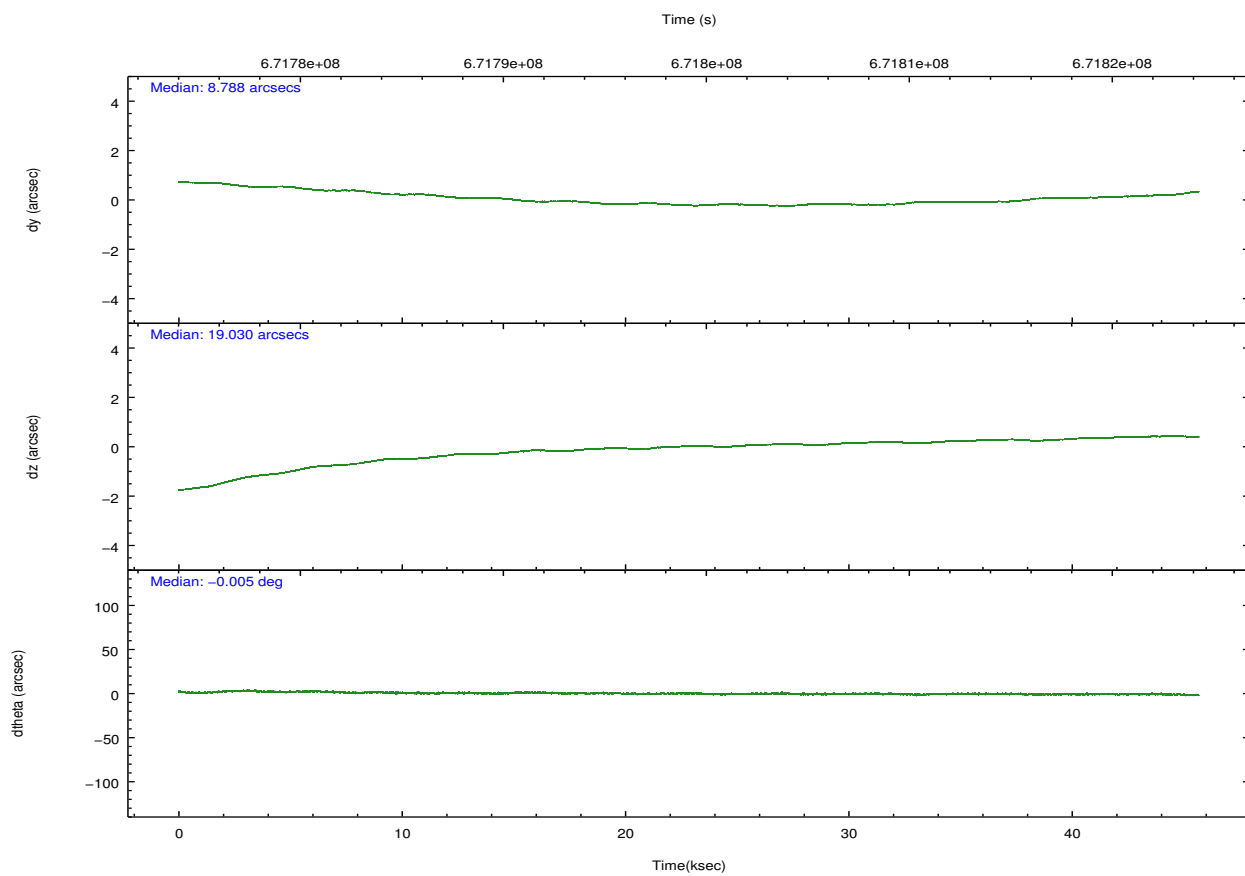
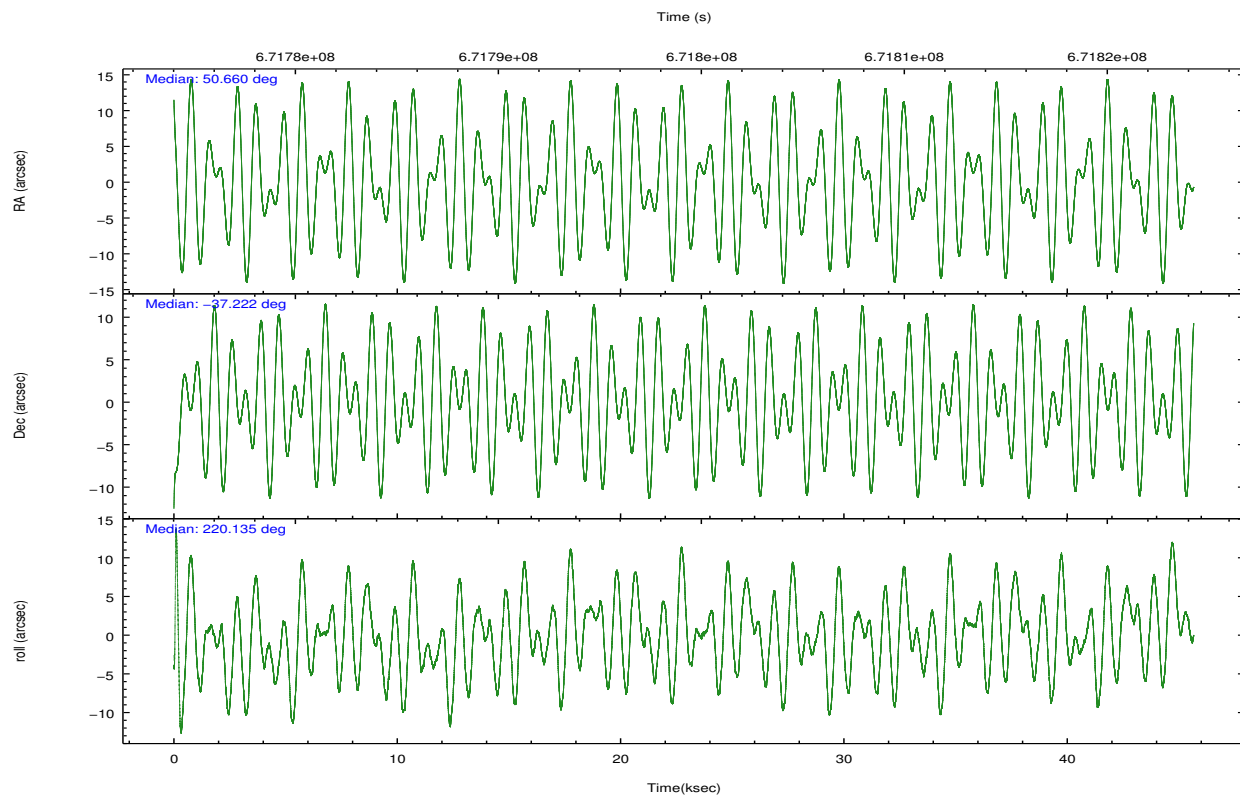
	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	14868	16650	14098	19008
	4%	3%	3%	4%
grade 1 events	203	1216	169	648
	0%	0%	0%	0%
grade 2 events	8367	84044	9782	44074
	2%	15%	2%	9%
grade 3 events	3697	8214	3887	15998
	1%	1%	1%	3%
grade 4 events	3808	8173	3981	15960
	1%	1%	1%	3%
grade 5 events	15733	38734	16116	44772
	4%	7%	4%	9%
grade 6 events	7551	146214	9431	107404
	2%	26%	2%	23%
grade 7 events	283808	244039	298812	204695
	83%	44%	83%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3567	ACIS-3567	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	50.670938	50.65965963645385	CCD I2 on	O1	N
[deg] Pointing Dec	-37.196225	-37.22216872311762	CCD I3 on	Y	Y
[deg] Pointing Roll	219.998051	220.1478460786709	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	671776448.184000	671775442.43032	CCD S5 on	N	N
Observation start date	2019-04-16T04:32:59	2019-04-16T04:17:22	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	671821948.184000	671823261.75818	On-chip summing requested	N	N
Observation end date	2019-04-16T17:11:19	2019-04-16T17:34:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



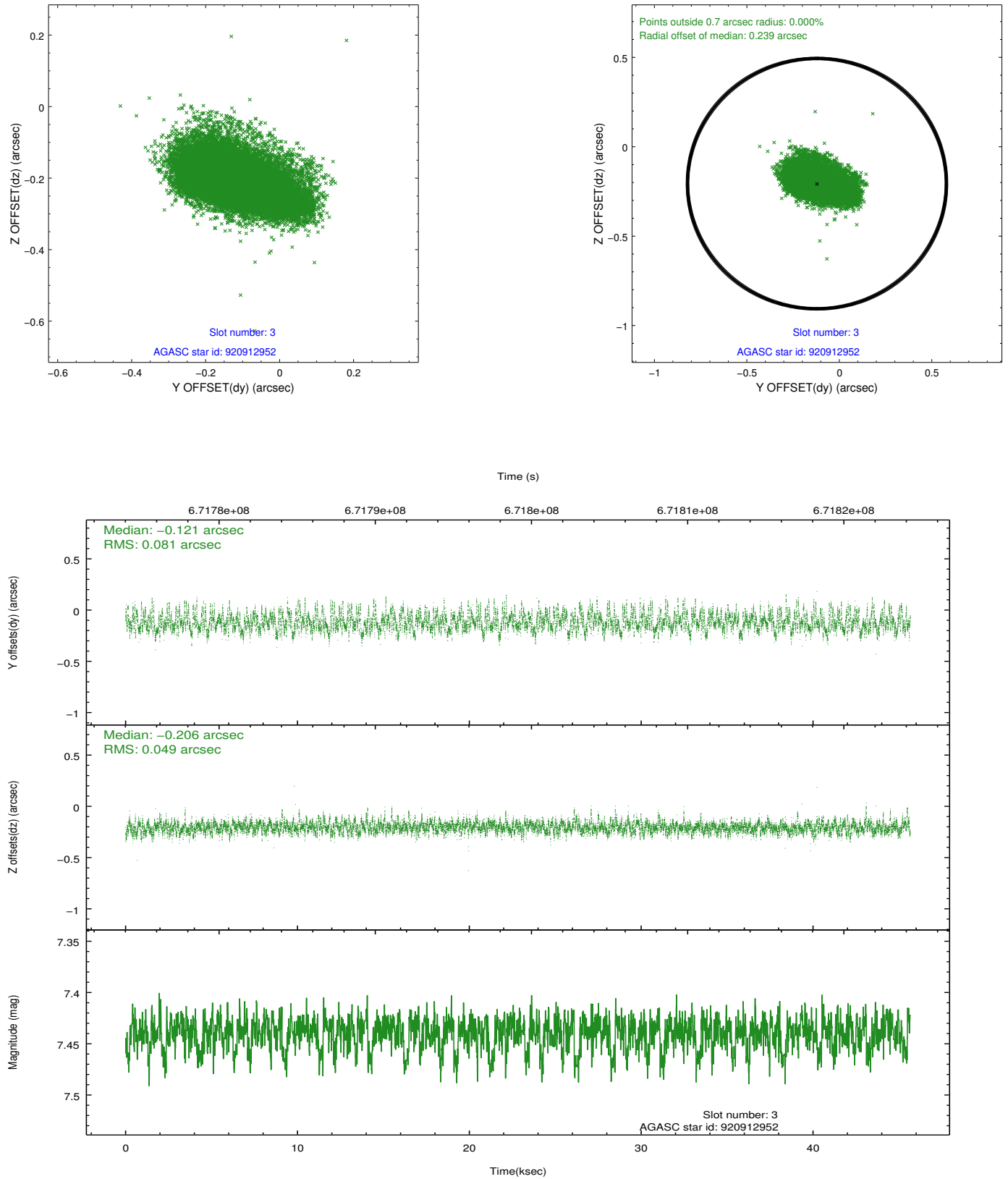


Slot Statistics

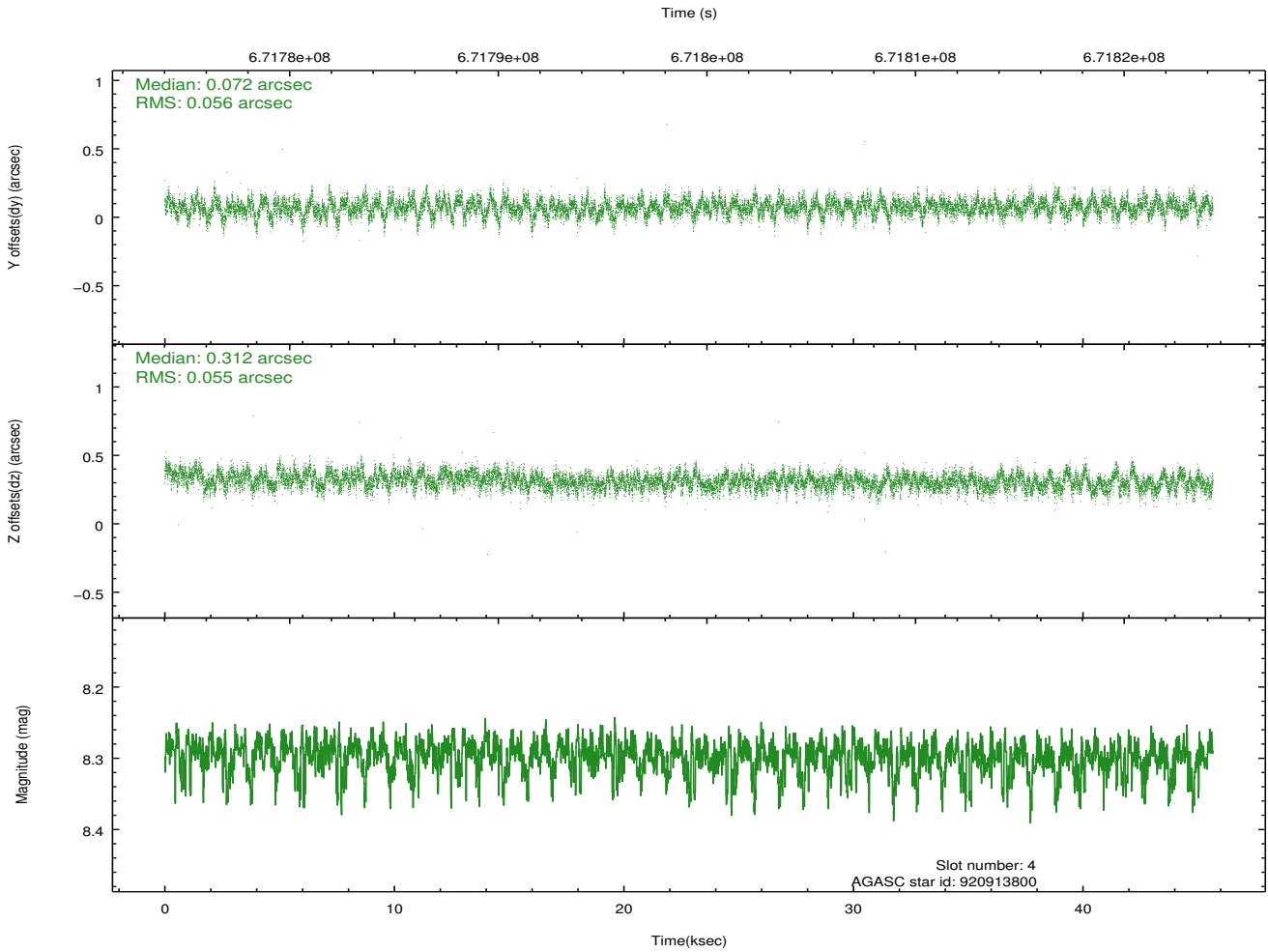
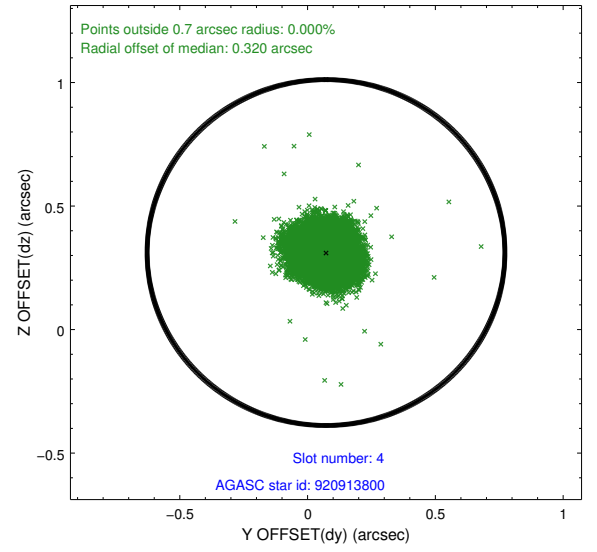
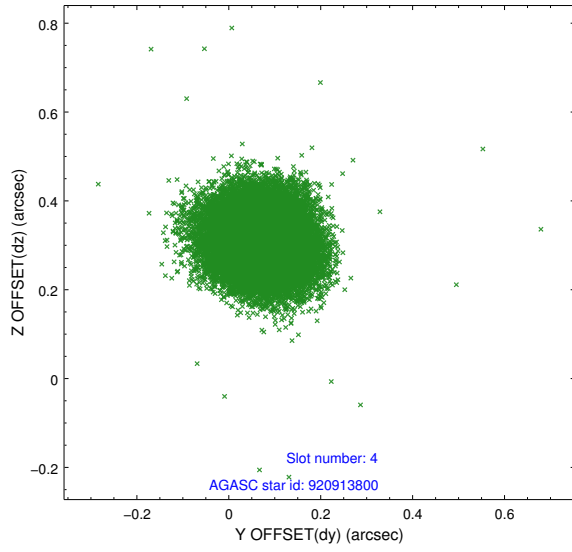
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-3	7.25	11135	1.000	-0.220	-0.150	0.013	0.033	0.000000	0.000000	51.35	-1869
1	FID		ACIS-S-4	7.10	11137	1.000	0.559	0.185	0.016	0.034	0.000000	0.000000	2152.25	168
2	FID		ACIS-S-5	7.10	11136	1.000	-0.363	-0.026	0.022	0.068	0.000000	0.000000	-1814.89	161
3	GUIDE	used	920912952	7.44	22267	1.000	-0.121	-0.206	0.098	0.173	50.997738	-37.170324	-776.29	533
4	GUIDE	used	920913800	8.30	22265	1.000	0.072	0.312	0.083	0.136	50.699964	-36.577710	-1495.56	-1650
5	GUIDE	used	920918608	9.07	22238	1.000	0.057	0.188	0.146	0.244	50.519564	-36.628414	-978.14	-1846
6	GUIDE	used	921043784	7.55	22266	1.000	0.004	-0.042	0.124	0.194	51.303384	-37.152691	-1487.55	1051
7	GUIDE	used	921043944	8.67	22251	1.000	-0.009	-0.253	0.110	0.175	51.008576	-37.283287	-538.48	863

2.4 Star Slots

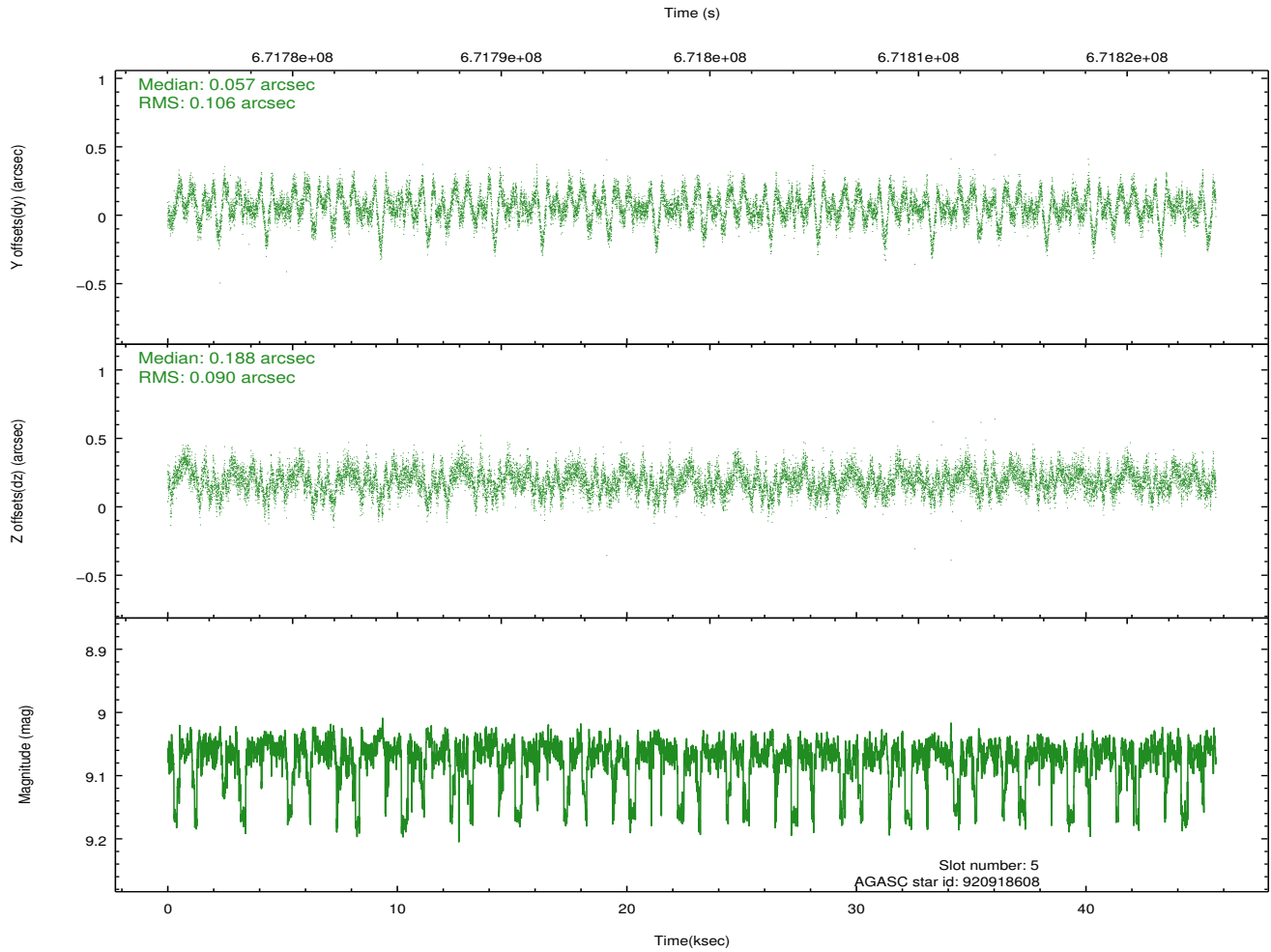
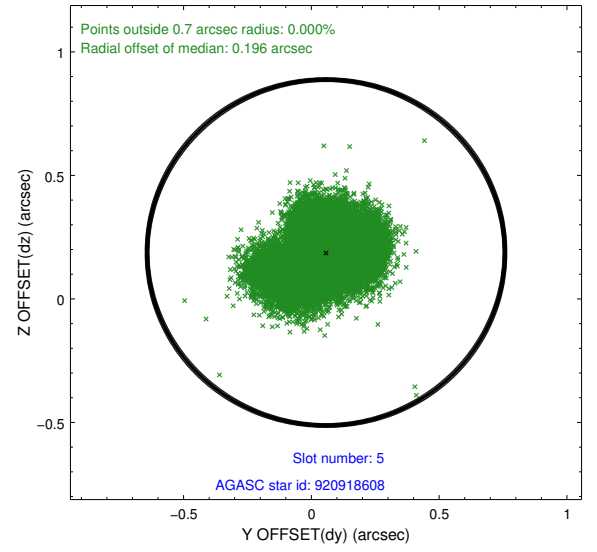
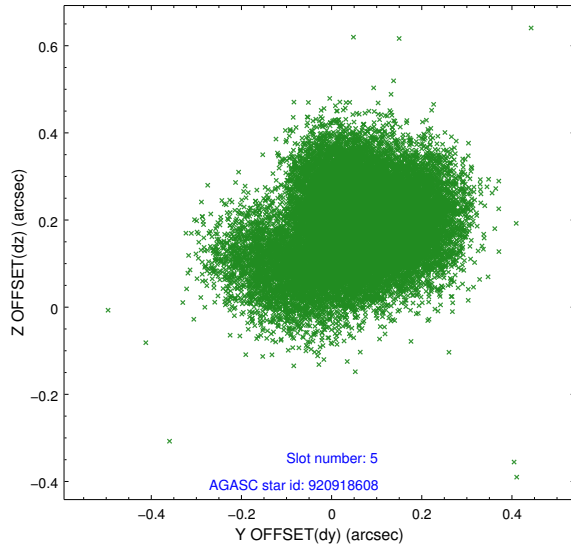
2.4.1 Slot 3



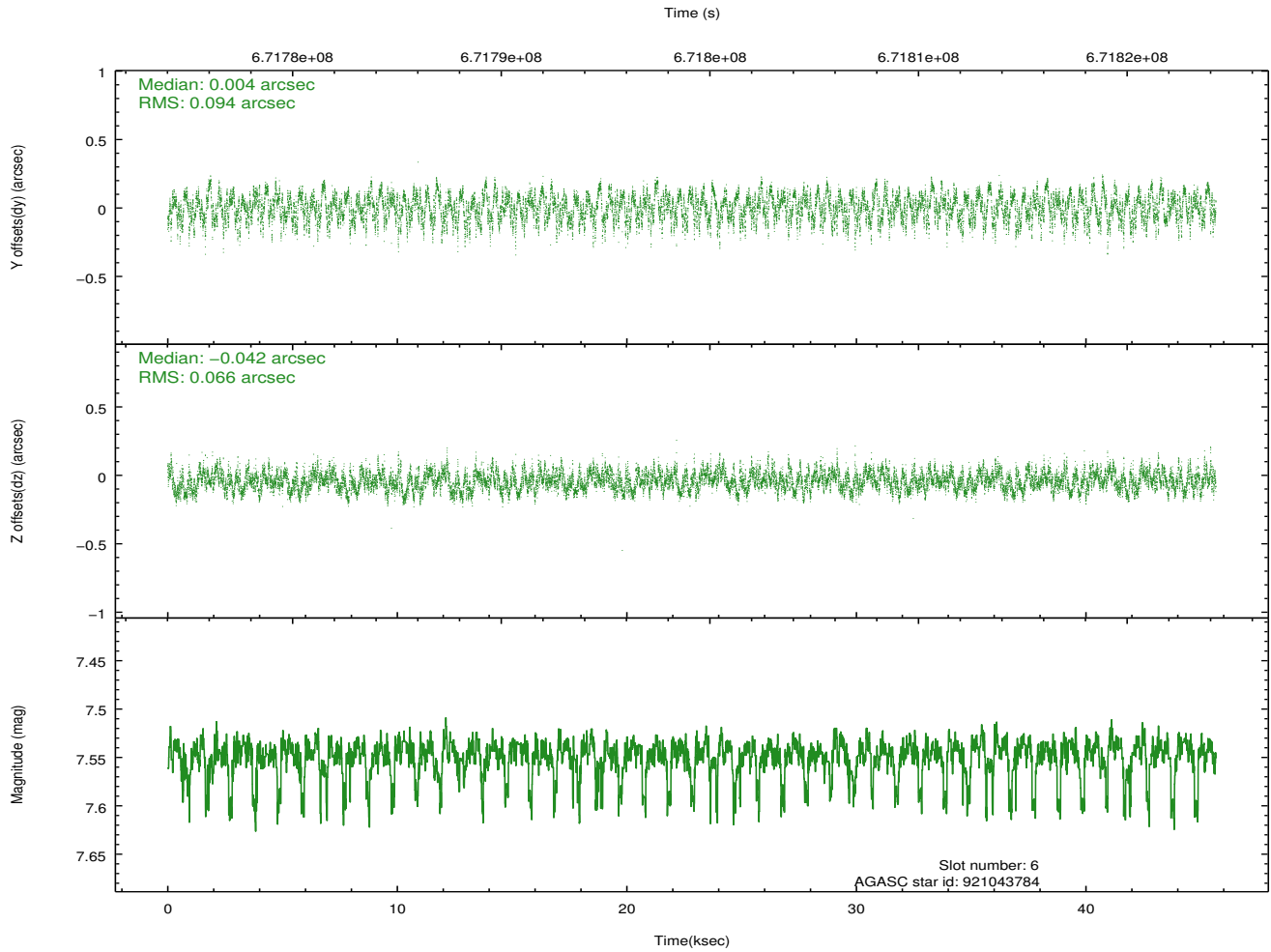
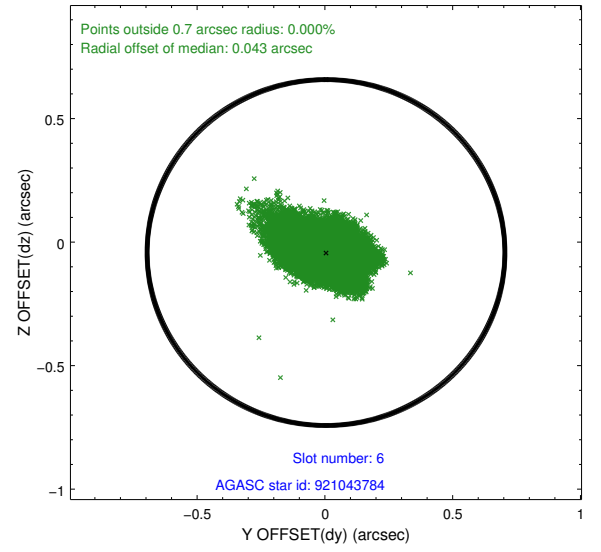
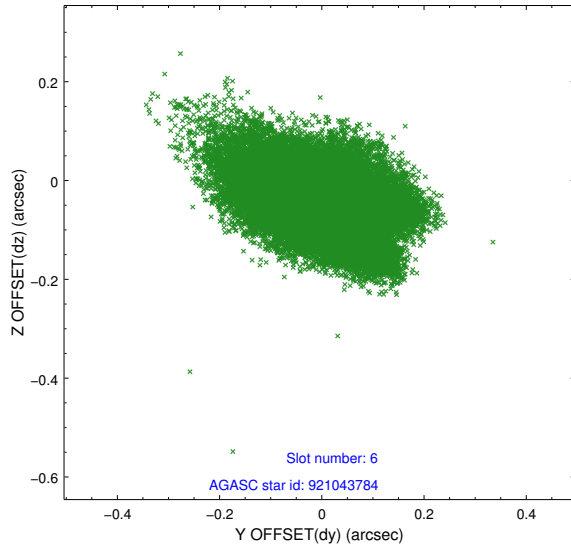
2.4.2 Slot 4



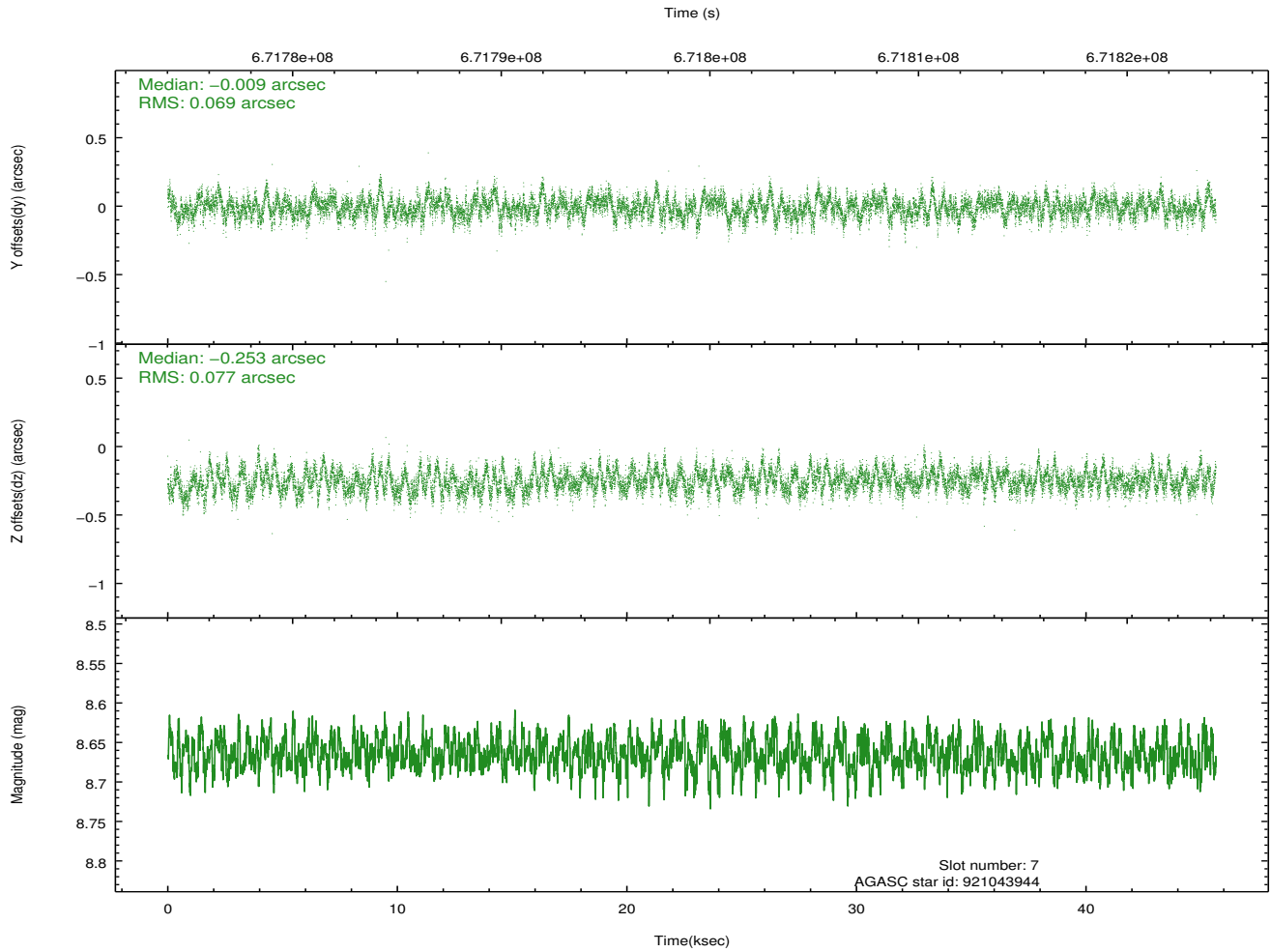
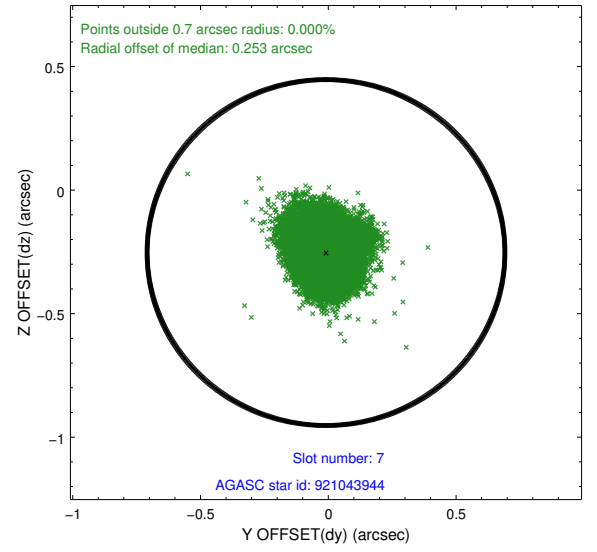
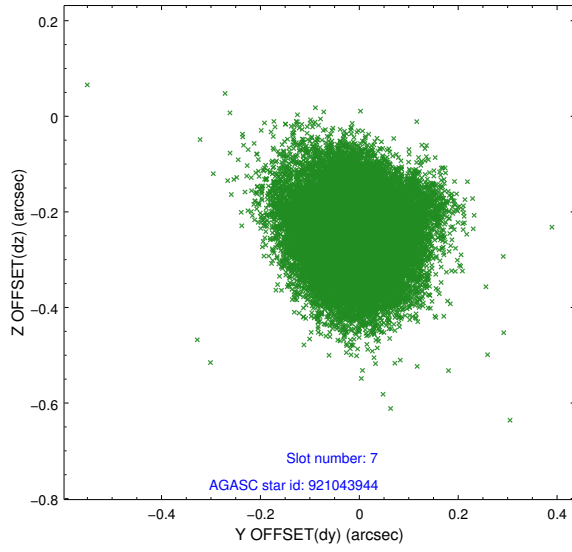
2.4.3 Slot 5



2.4.4 Slot 6

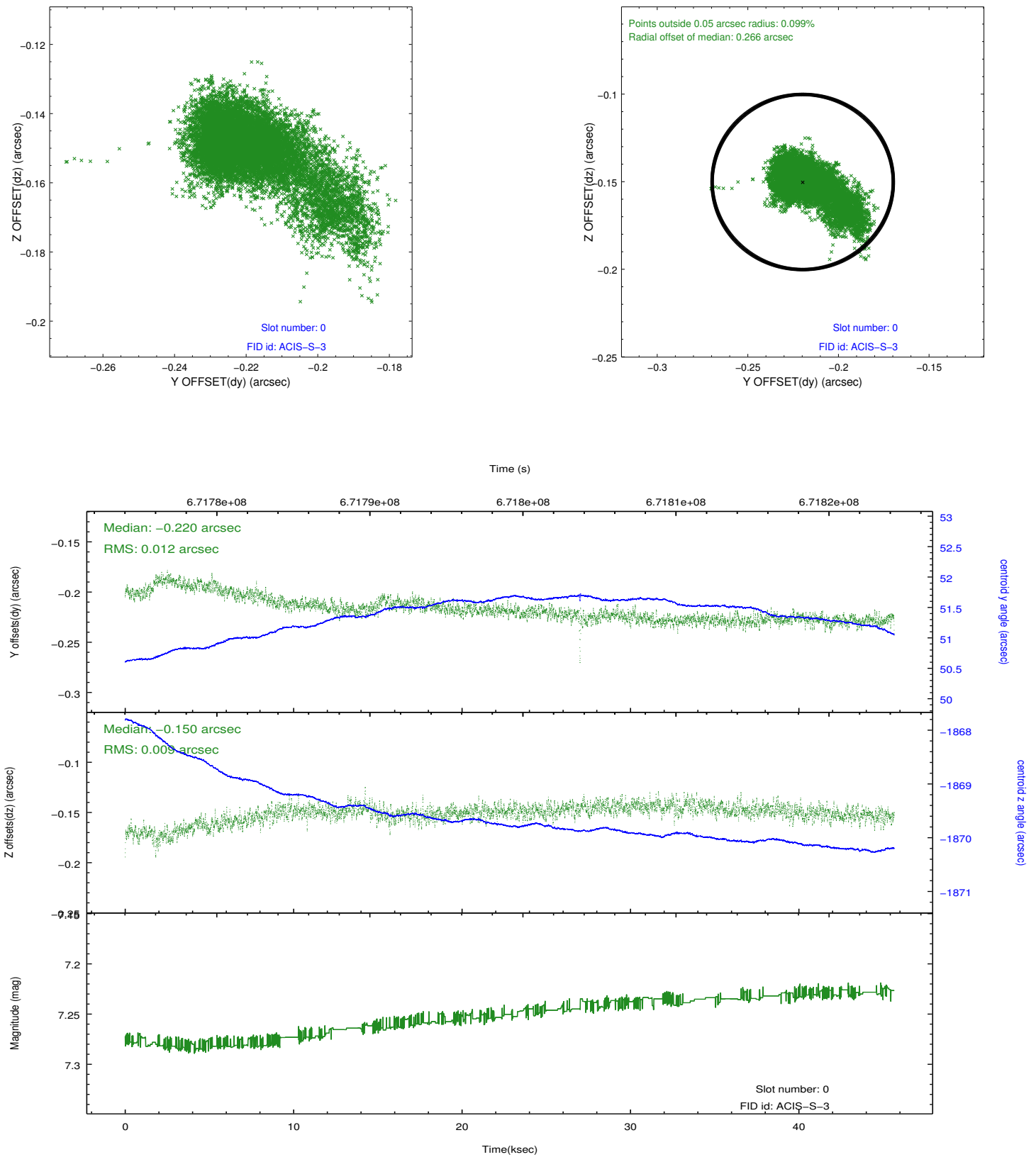


2.4.5 Slot 7

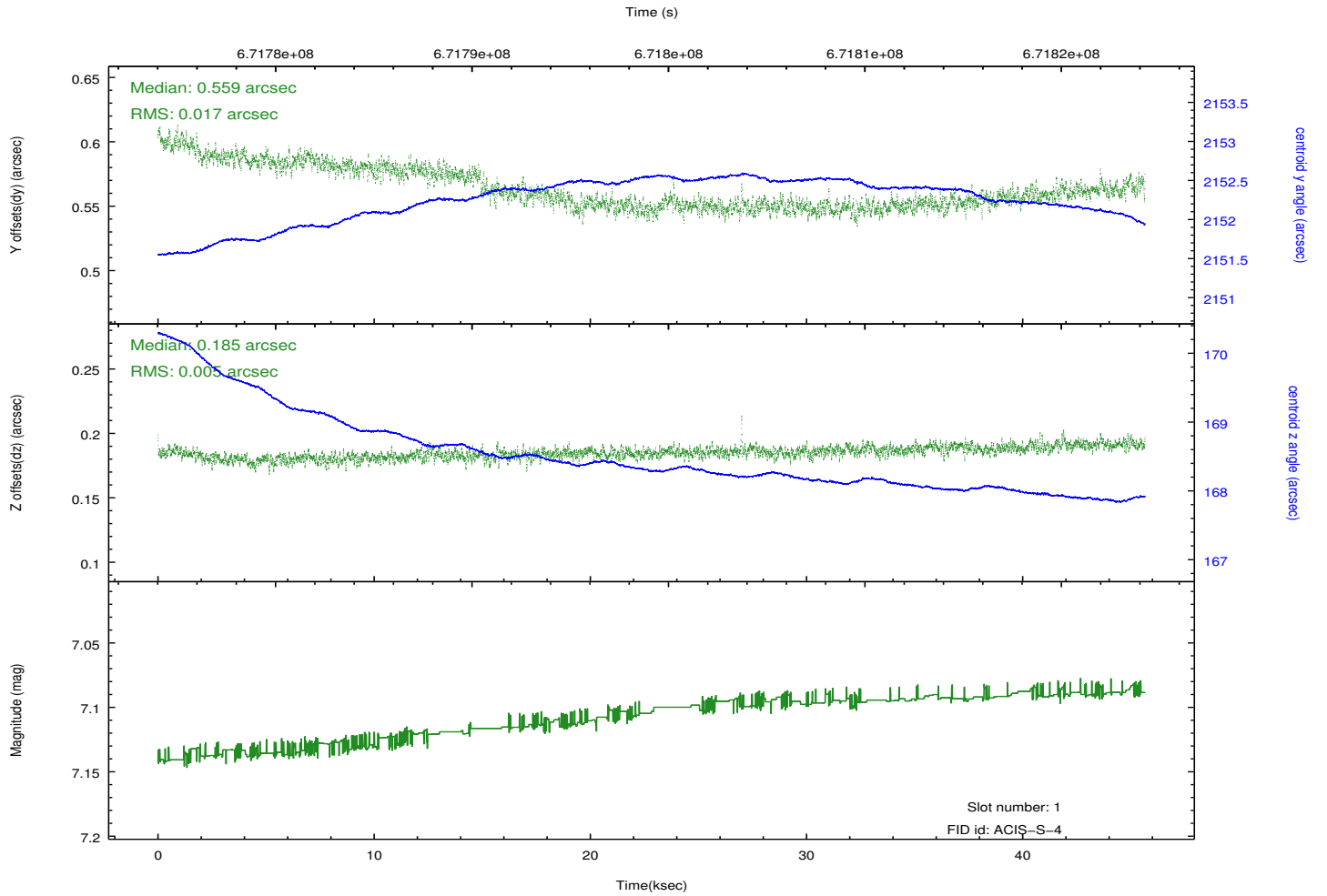
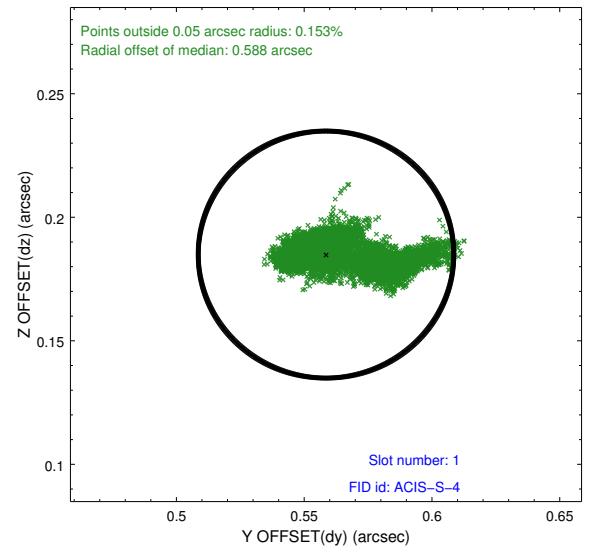
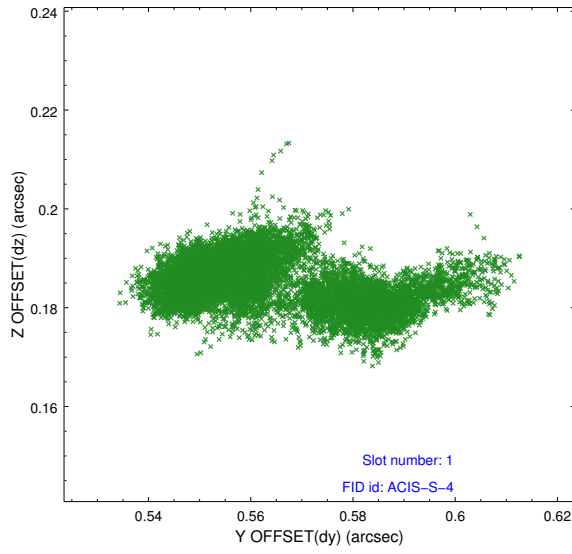


2.5 FID Slots

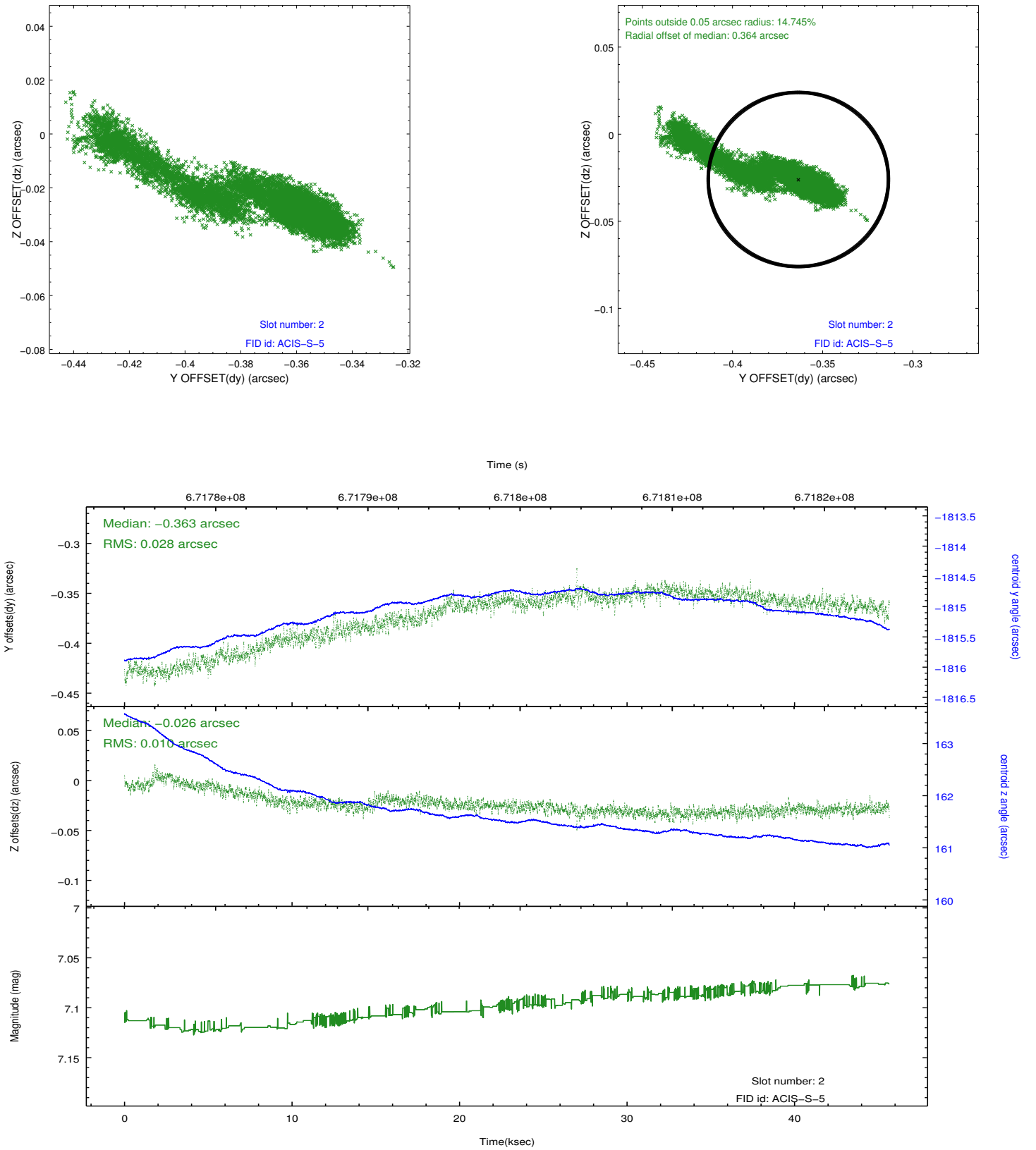
2.5.1 Slot 0



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)	2019.04.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.560700350523

A.2 Comments