

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21866 - L2 Version 1
Chandra X-Ray Center

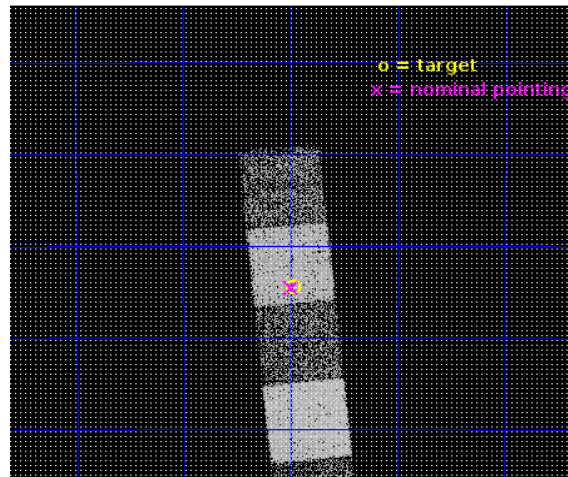
L2 Processing Date : Nov 19 2018

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1 Front

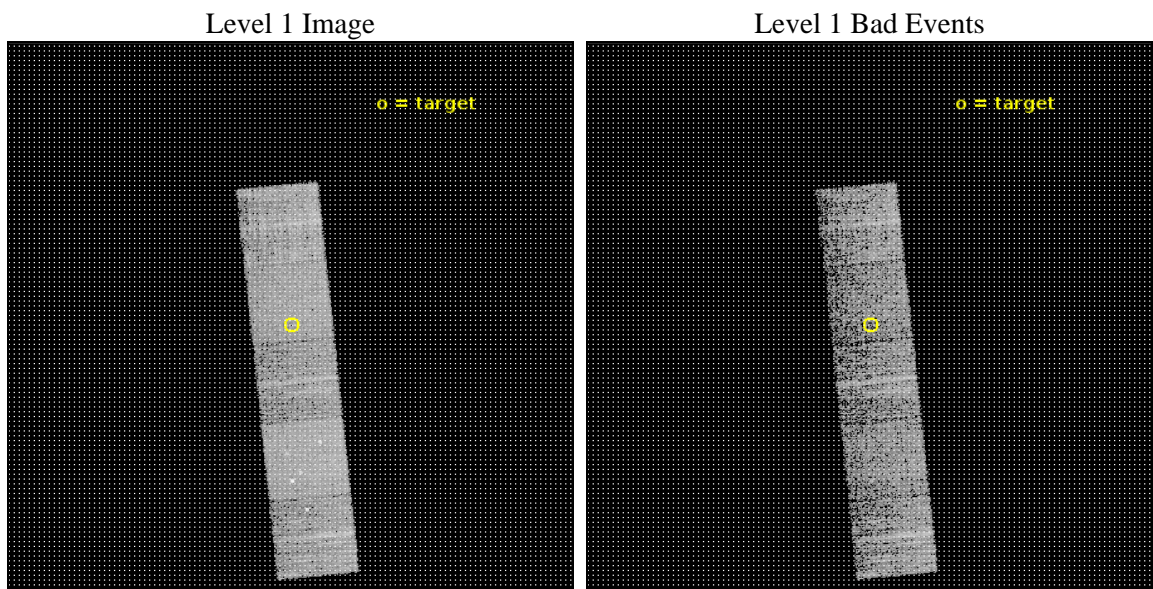
seq_num	402112	Sequence number
obs_id	21866	Observation id
title	Verifying a hyperluminous X-ray source in the spectroscopically studied young starburst ESO 338-IG04	Proposal title
observer	Lidia Oskinova	Principal investigator
object	ESO 338-IG04 HLX-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	291.994583	Observer's specified target RA [deg]
dec_targ	-41.575222	Observer's specified target Dec [deg]
ra_nom	291.99863030477	Nominal RA [deg]
dec_nom	-41.576230803905	Nominal Dec [deg]
roll_nom	264.14782785067	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3090.7000238895	Sum of GTIs [s]
livetime	3050.3177527372	Livetime [s]
ontime4	3090.7000238895	Sum of GTIs [s]
ontime5	3090.7000238895	Sum of GTIs [s]
ontime6	3090.7000238895	Sum of GTIs [s]
ontime7	3090.7000238895	Sum of GTIs [s]
ontime8	3090.7000238895	Sum of GTIs [s]
l2events	36709	Number of level 2 events



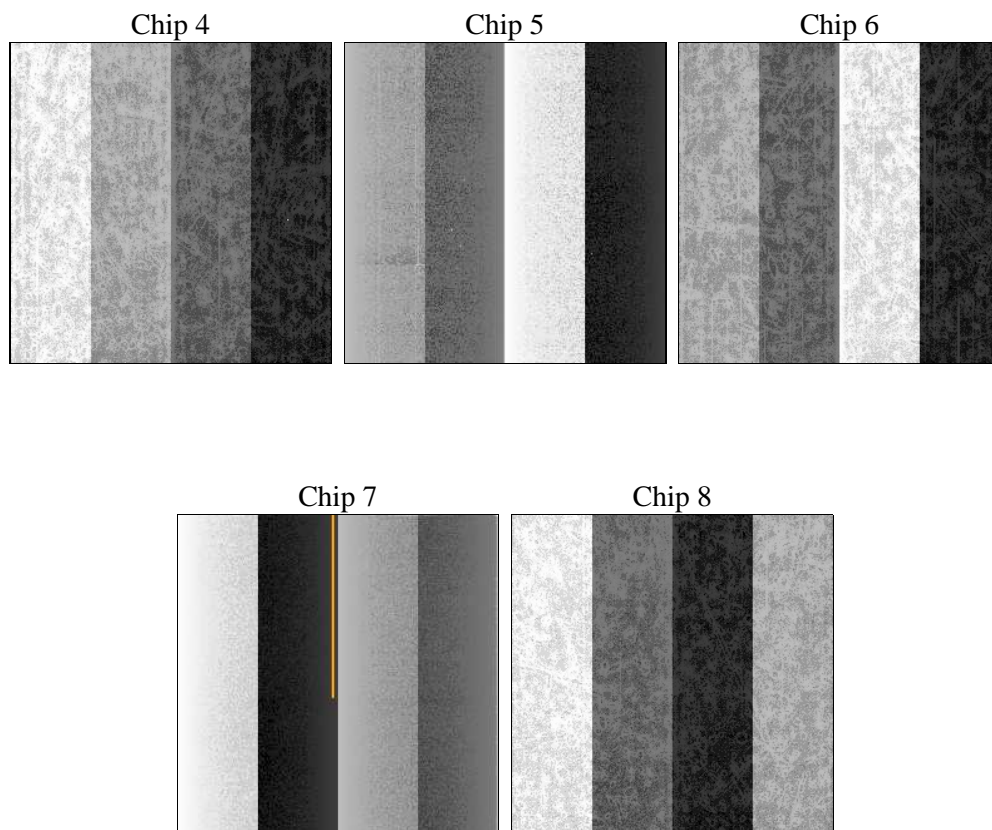
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	3090.7000238895	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime4	3090.7000238895	Sum of GTIs [s]
date	2018-11-19T06:31:06	Date and time of file creation	ontime5	3090.7000238895	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3090.7000238895	Sum of GTIs [s]
			ontime7	3090.7000238895	Sum of GTIs [s]
			ontime8	3090.7000238895	Sum of GTIs [s]
			l1events	152128	Number of level 1 events

2.1.4 Events

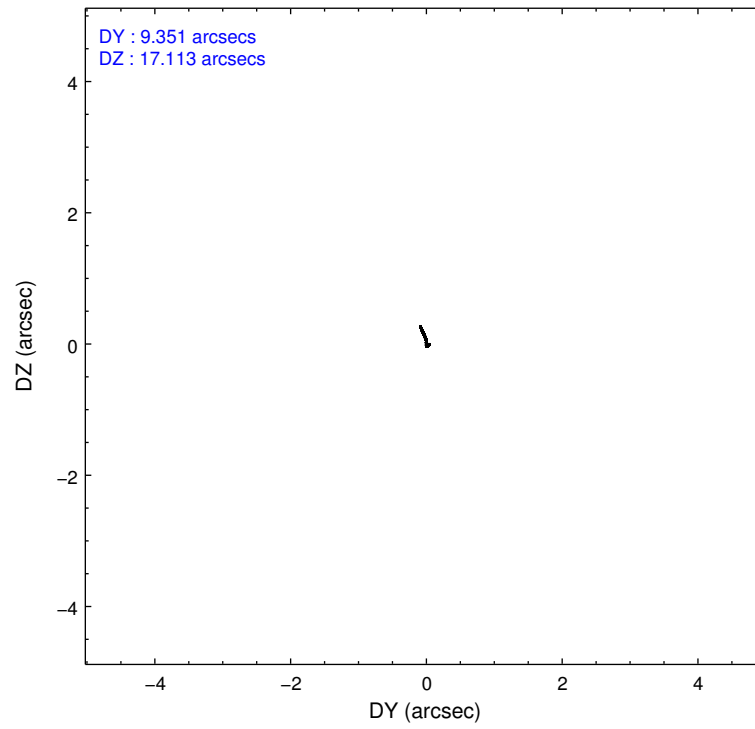
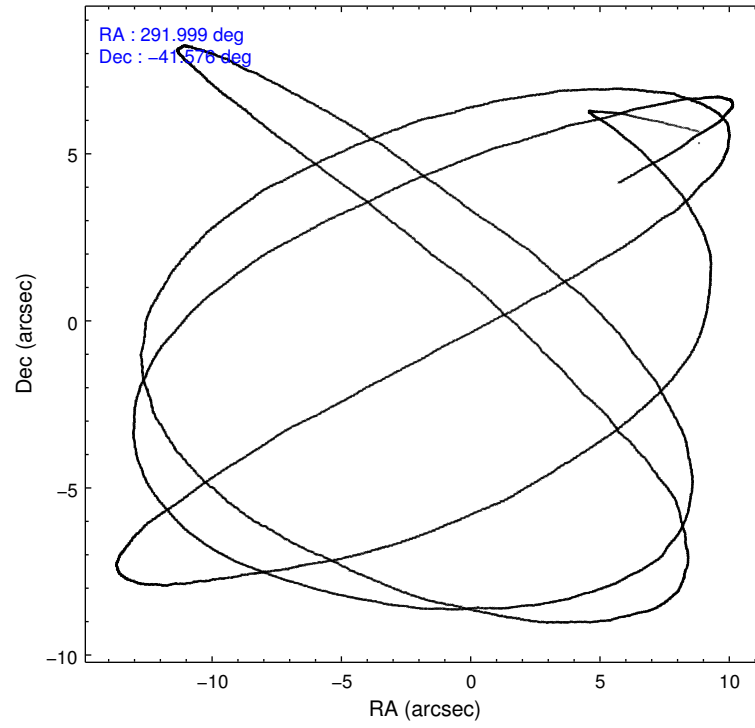
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	28168	38761	23595	29726	31878
rejected events	24872	19630	20962	16816	23175
rejected %	88%	50%	88%	56%	72%

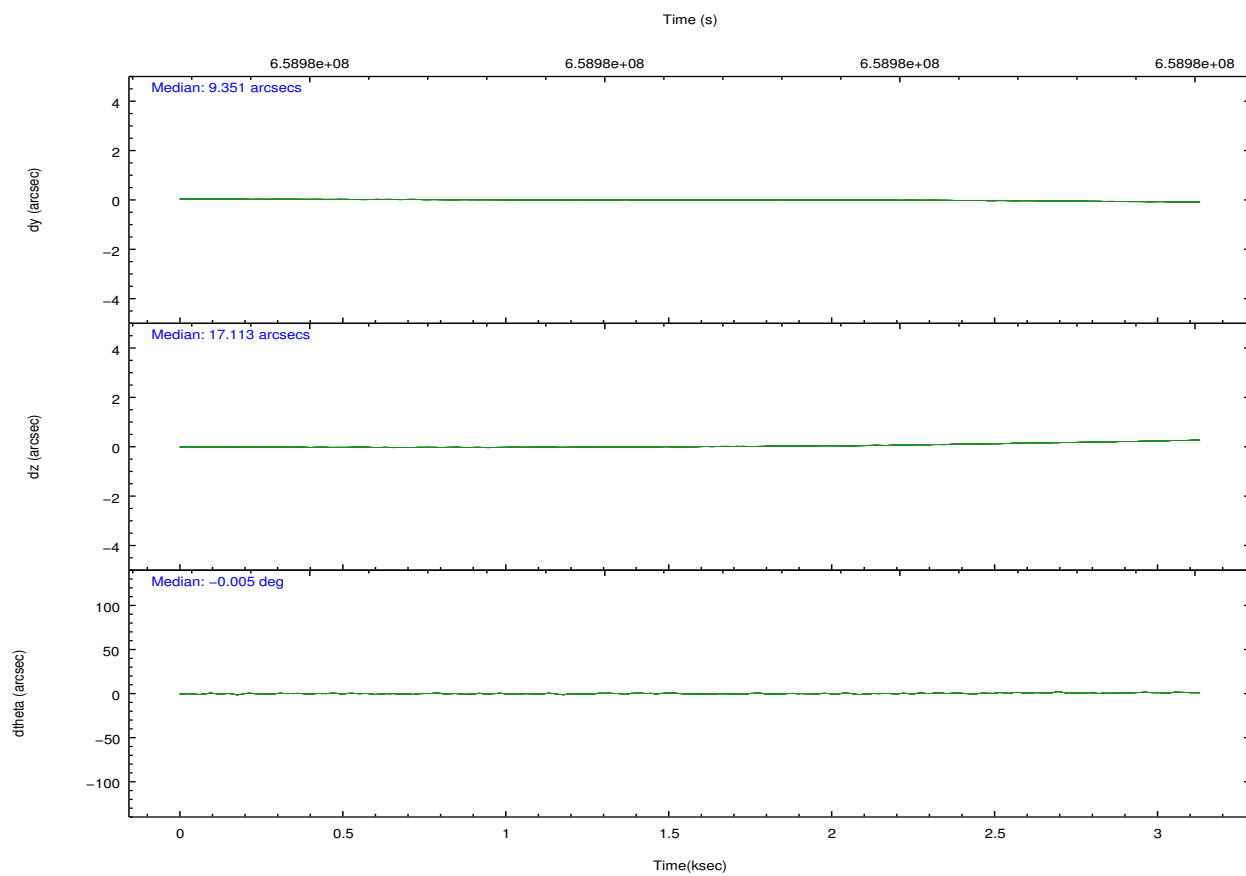
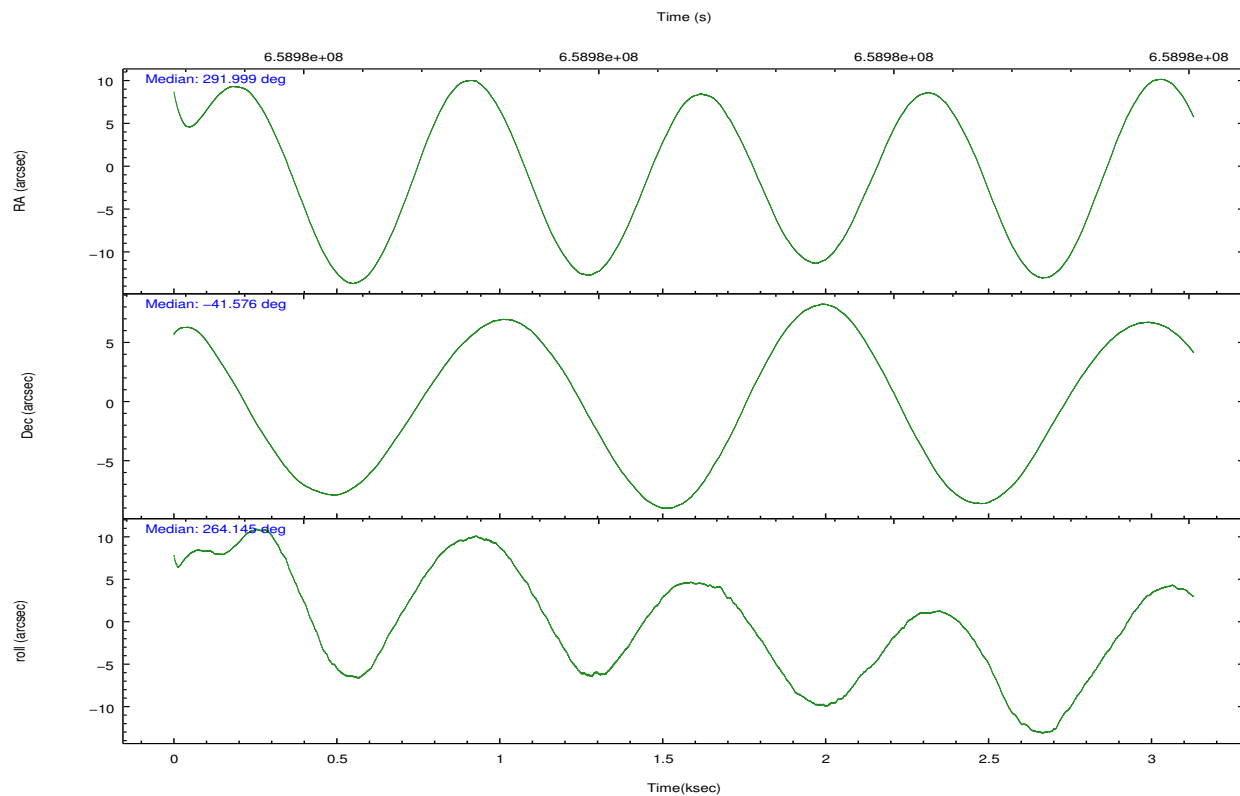
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1542	1957	883	1106	2357
	5%	5%	3%	3%	7%
grade 1 events	26	183	13	57	27
	0%	0%	0%	0%	0%
grade 2 events	681	6117	641	2661	2205
	2%	15%	2%	8%	6%
grade 3 events	298	539	230	1063	850
	1%	1%	0%	3%	2%
grade 4 events	274	489	245	989	803
	0%	1%	1%	3%	2%
grade 5 events	1097	2499	1055	2856	1702
	3%	6%	4%	9%	5%
grade 6 events	506	10058	637	7109	2510
	1%	25%	2%	23%	7%
grade 7 events	23744	16919	19891	13885	21424
	84%	43%	84%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-45678	ACIS-45678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	291.982961	291.998630304771	CCD I2 on	N	N
[deg] Pointing Dec	-41.551400	-41.57623080390523	CCD I3 on	N	N
[deg] Pointing Roll	263.980849	264.1478278506719	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	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	Y	Y
[s] Observation start time (MET)	658978833.184000	658977566.36599	CCD S5 on	N	N
Observation start date	2018-11-19T01:39:24	2018-11-19T01:19:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	658981833.184000	658982627.30379	On-chip summing requested	N	N
Observation end date	2018-11-19T02:29:24	2018-11-19T02:43:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



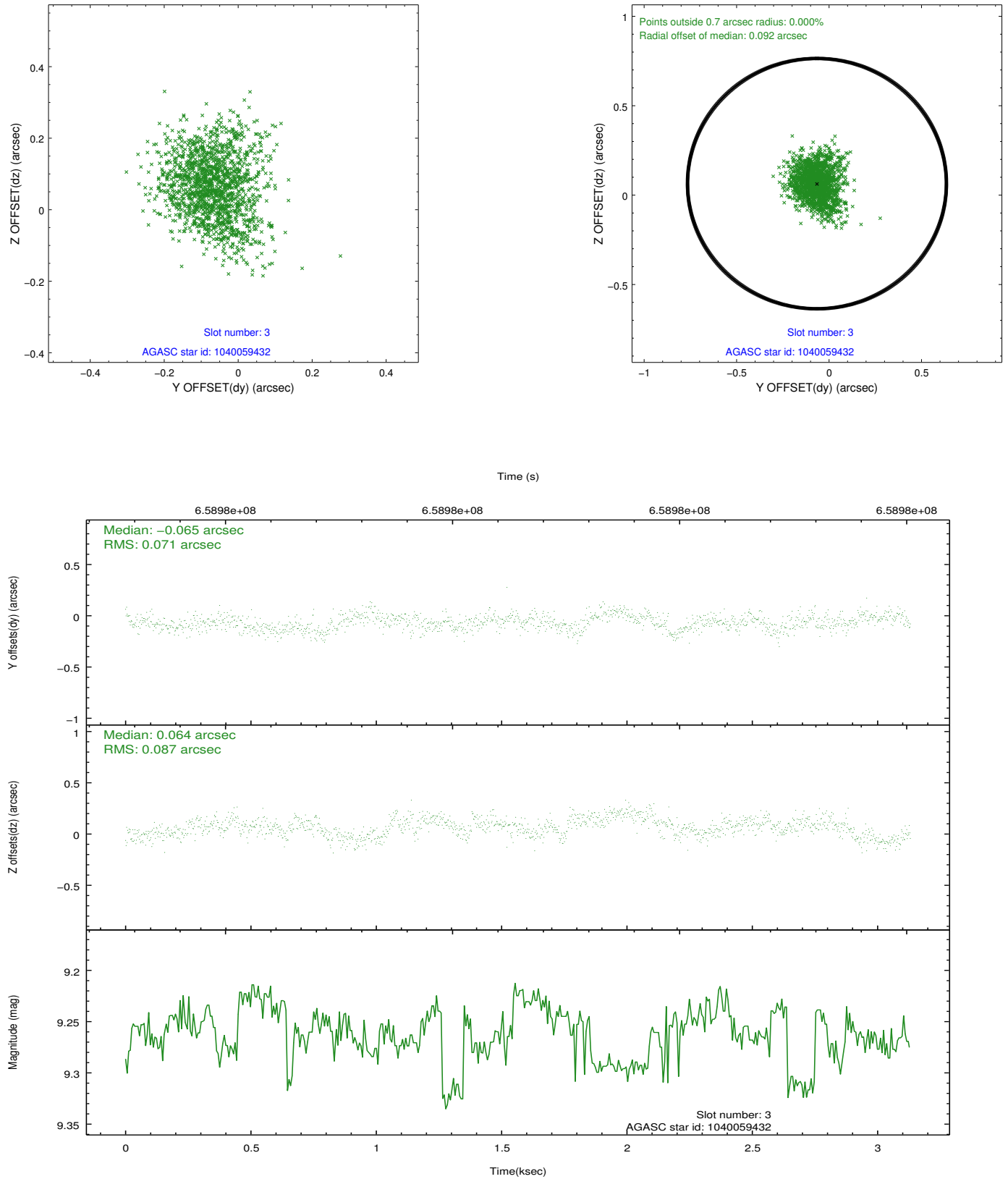


Slot Statistics

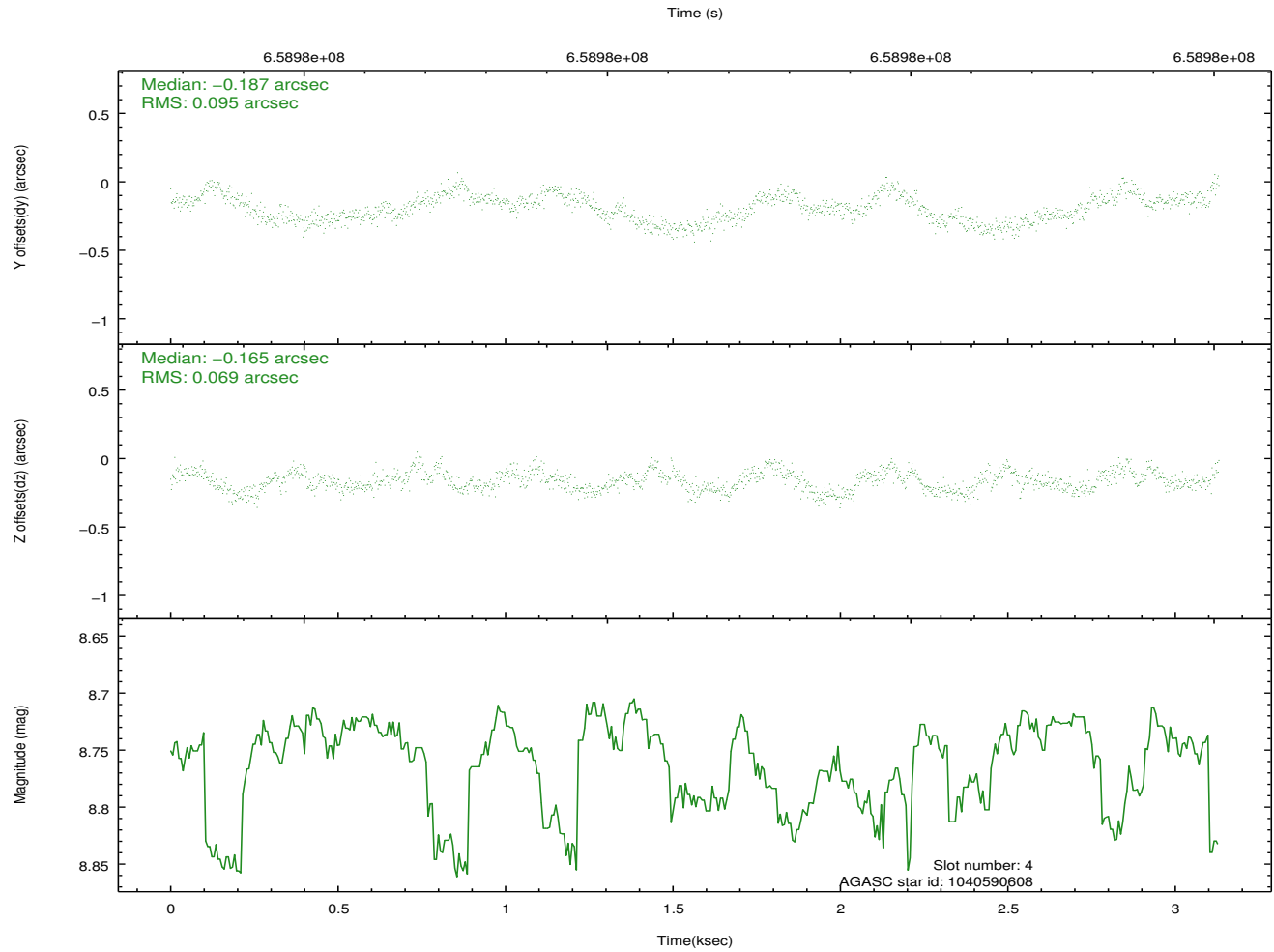
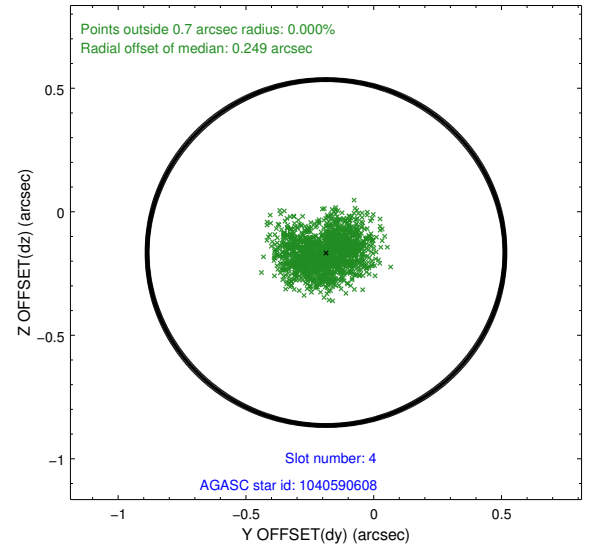
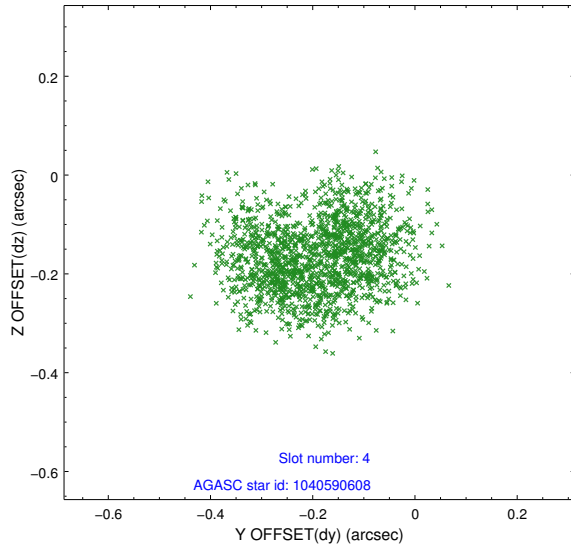
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.99	764	1.000	-0.250	-0.148	0.006	0.011	0.000000	0.000000	-762.37	-1738
1	FID		ACIS-S-4	7.13	764	1.000	0.619	0.160	0.005	0.009	0.000000	0.000000	2150.81	167
2	FID		ACIS-S-5	7.10	764	1.000	-0.400	-0.004	0.007	0.011	0.000000	0.000000	-1812.79	163
3	GUIDE	used	1040059432	9.26	1523	1.000	-0.065	0.064	0.120	0.193	292.311959	-41.018651	-1998.14	687
4	GUIDE	used	1040590608	8.75	1526	1.000	-0.187	-0.165	0.127	0.192	292.424163	-42.019200	1553.48	1350
5	GUIDE	used	1040592096	9.00	1525	1.000	0.345	-0.026	0.171	0.251	291.574592	-41.888892	1327.56	-959
6	GUIDE	used	1040062216	7.86	1527	1.000	-0.129	0.132	0.085	0.140	292.349591	-40.945899	-2268.00	762
7	GUIDE	used	1040592088	7.21	1527	1.000	0.047	-0.013	0.070	0.109	291.878338	-41.987261	1589.60	-113

2.4 Star Slots

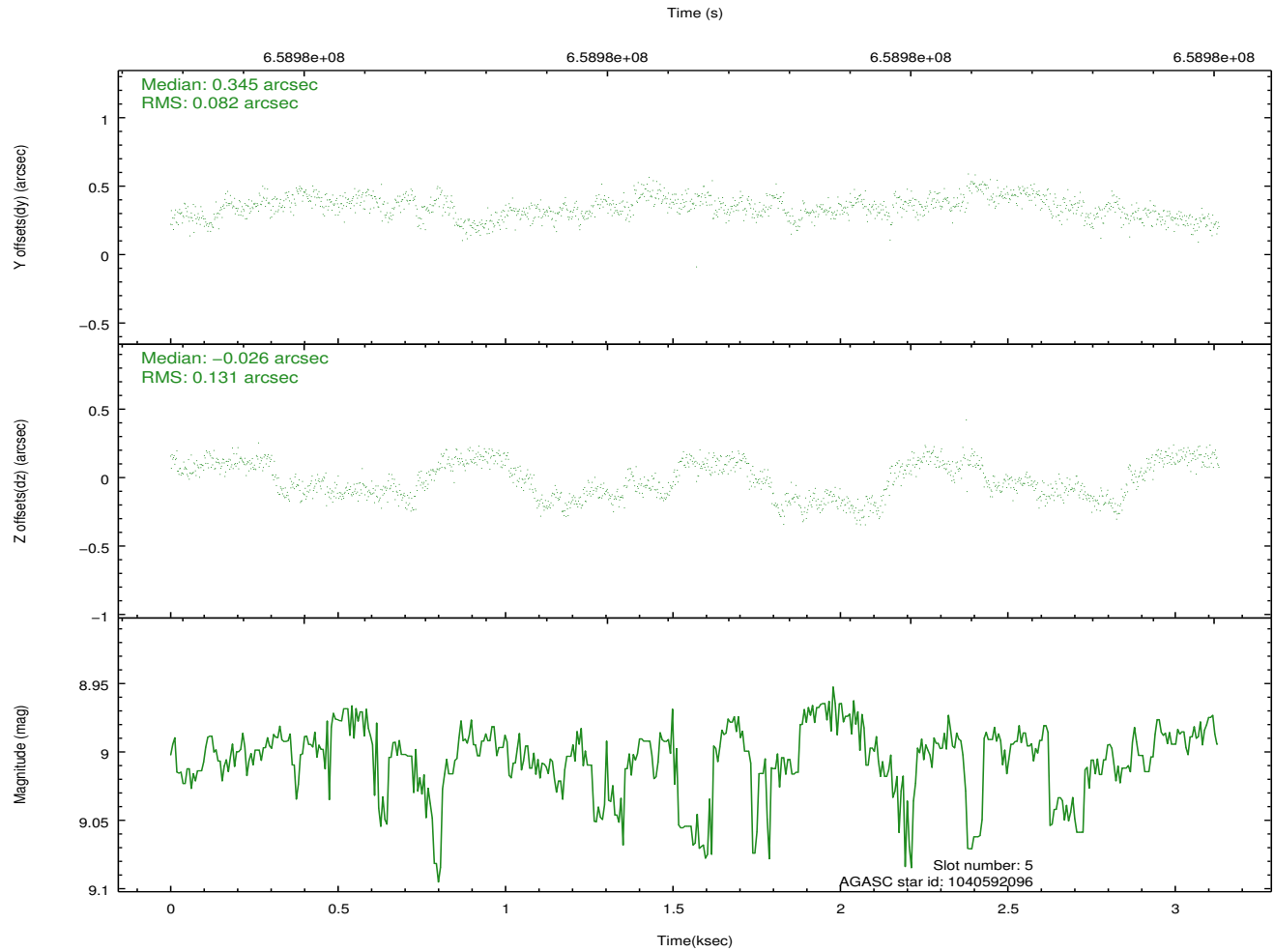
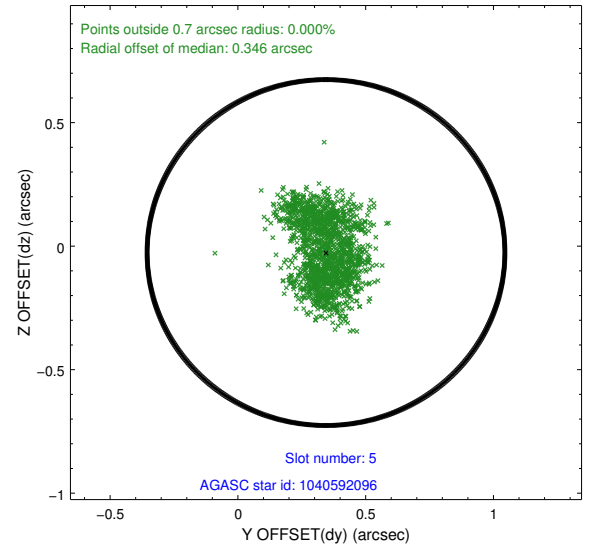
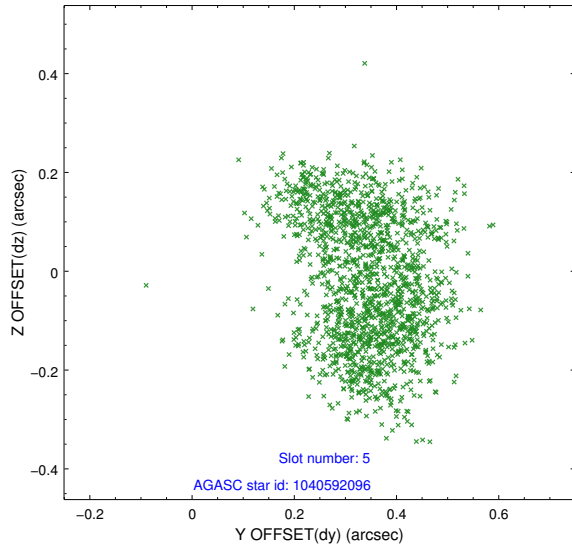
2.4.1 Slot 3



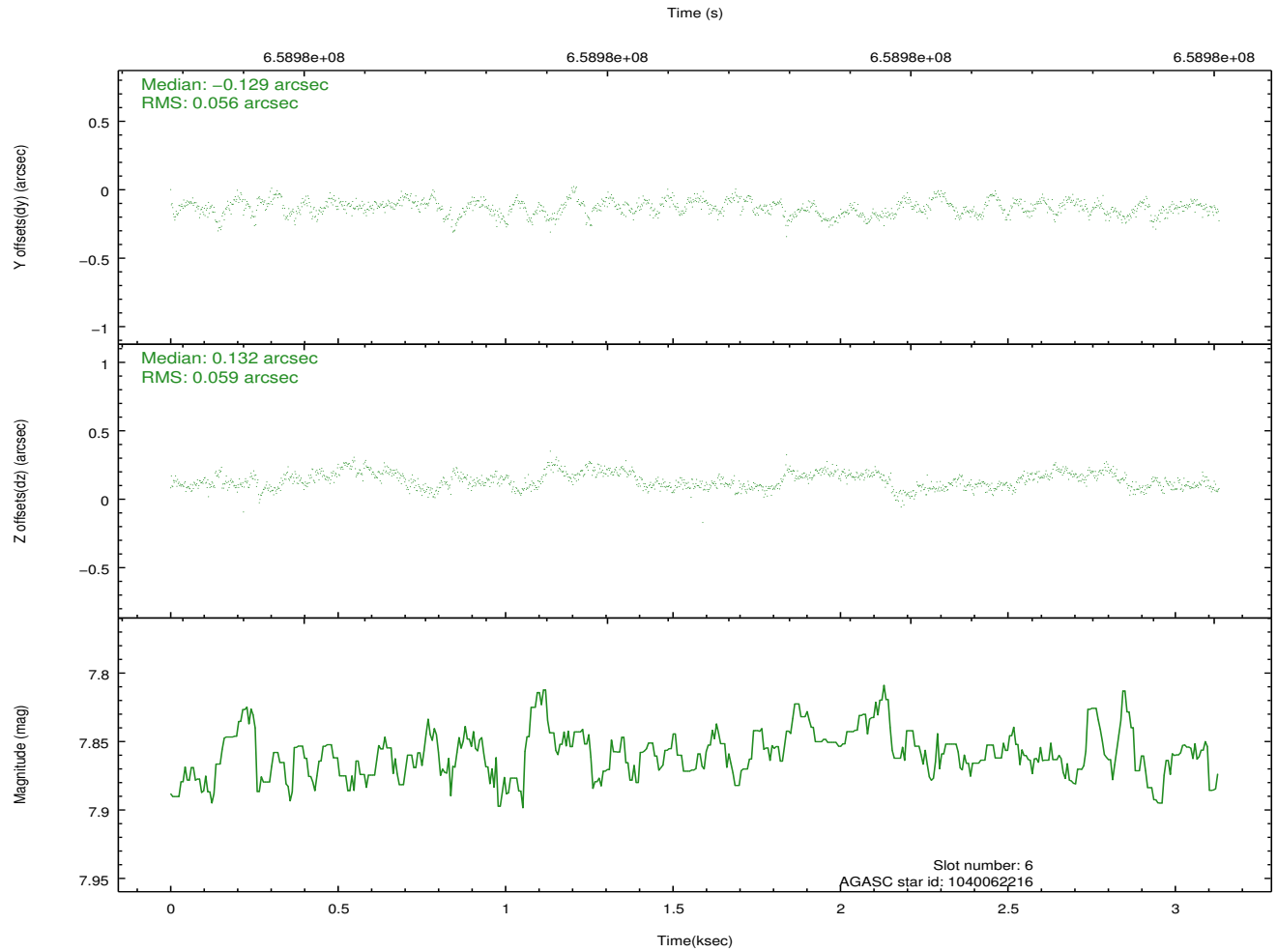
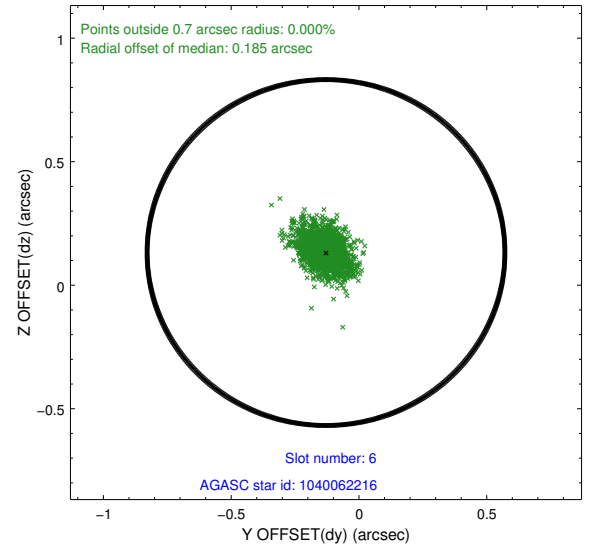
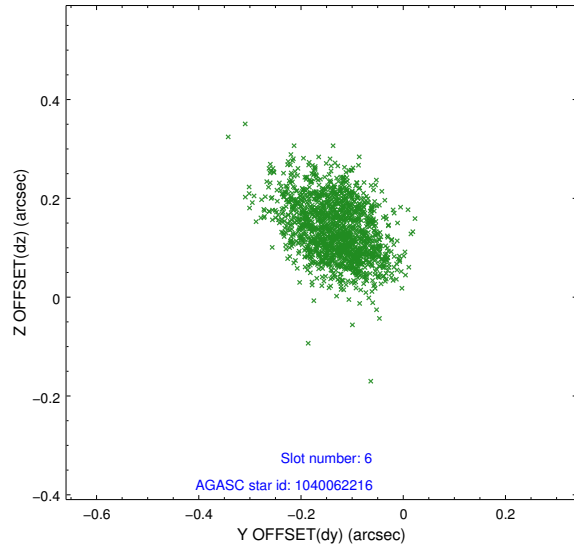
2.4.2 Slot 4



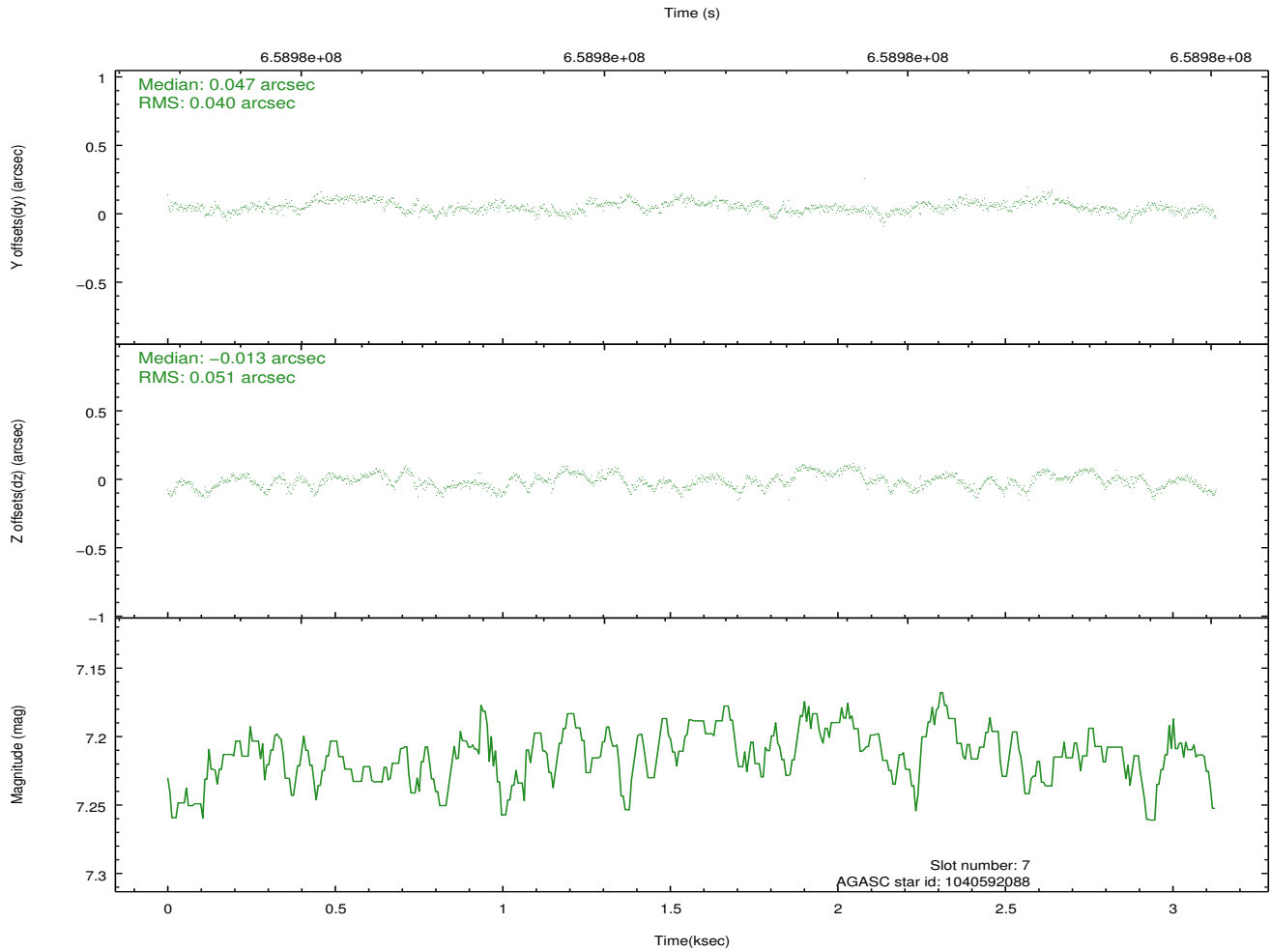
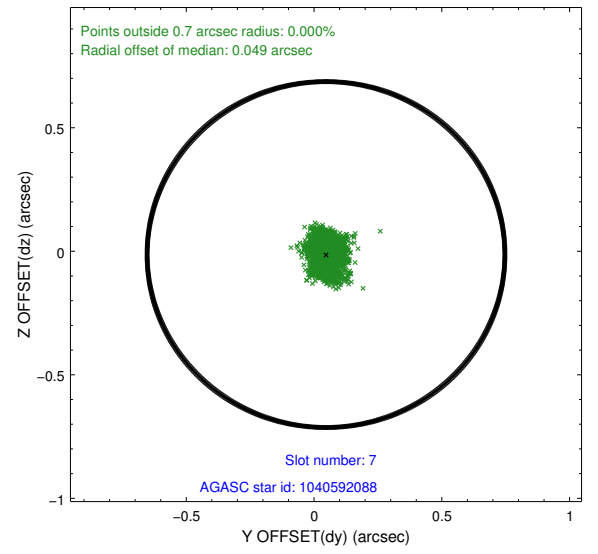
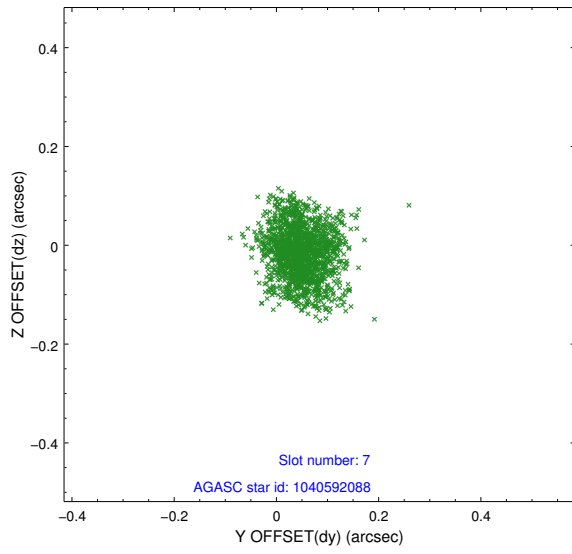
2.4.3 Slot 5



2.4.4 Slot 6

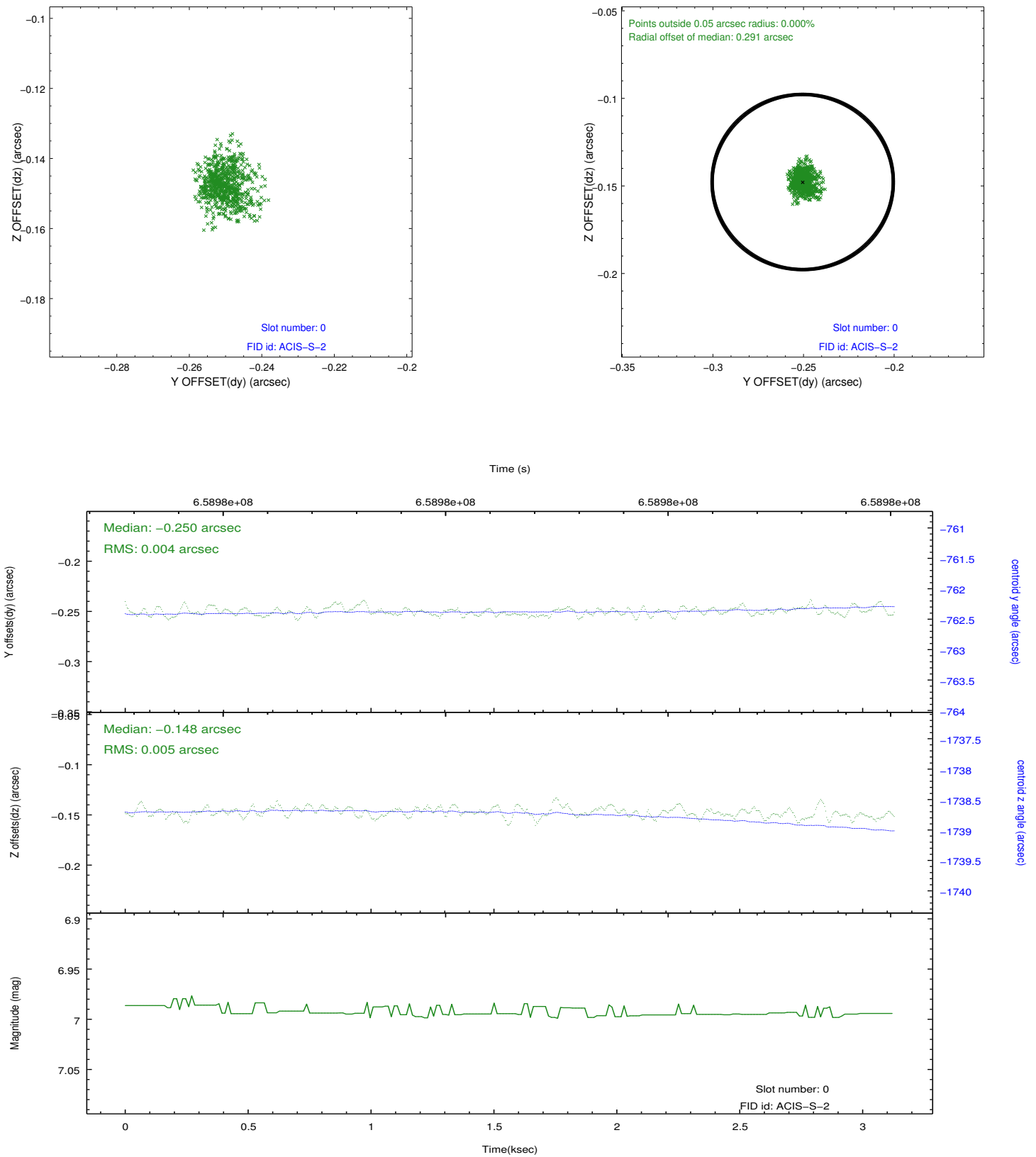


2.4.5 Slot 7

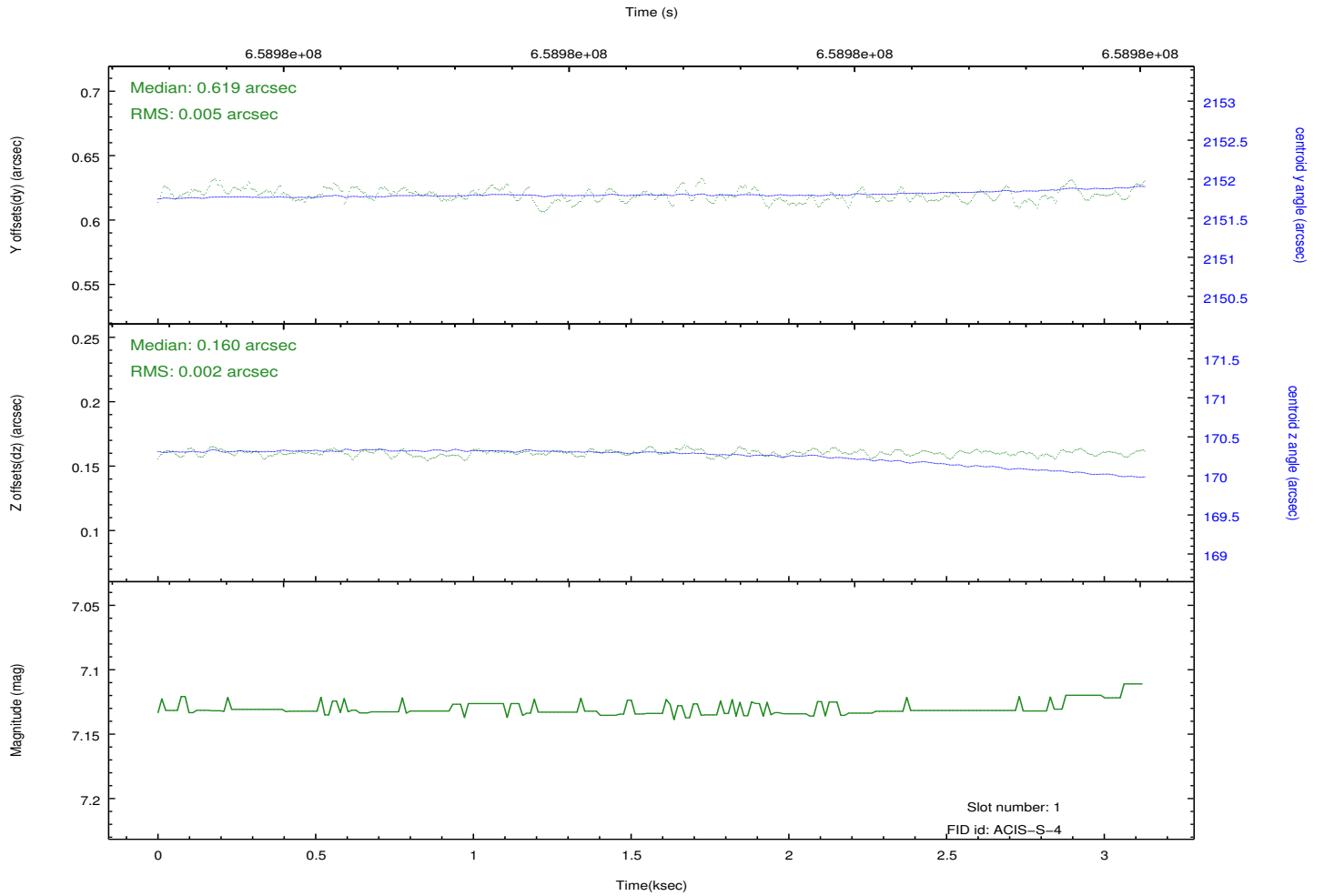
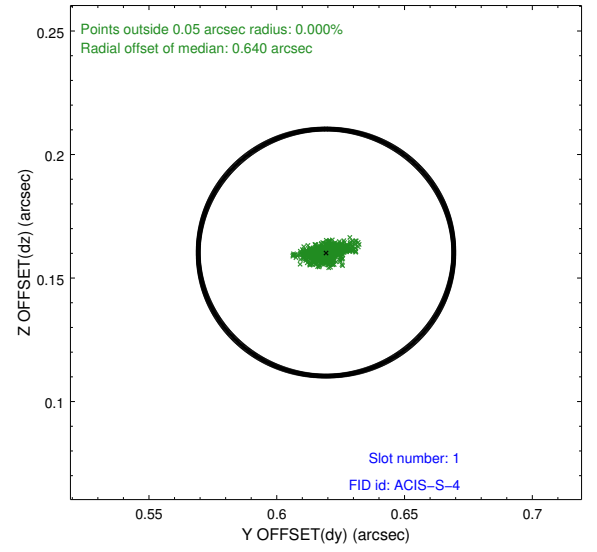
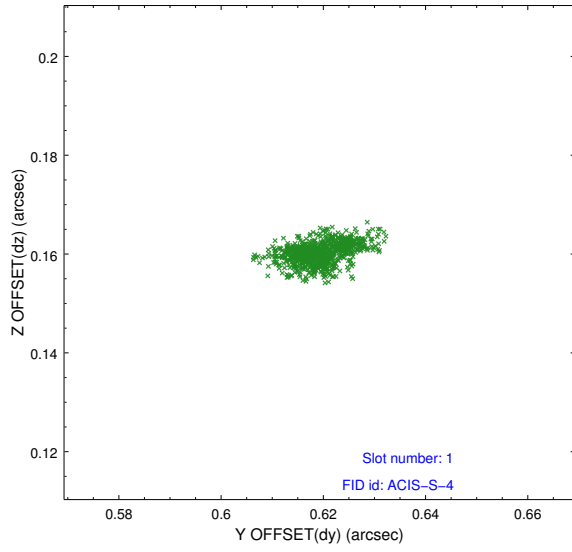


2.5 FID Slots

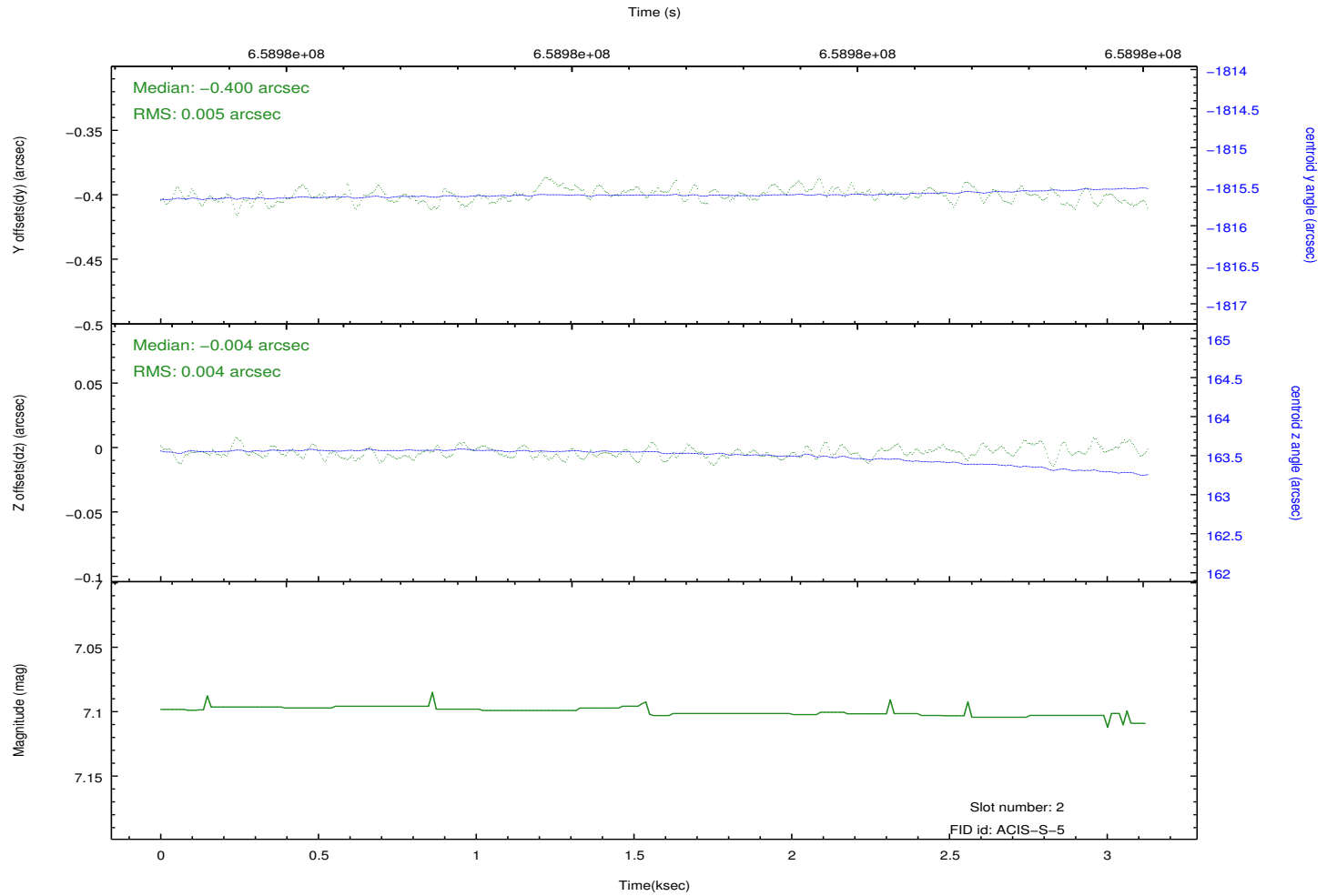
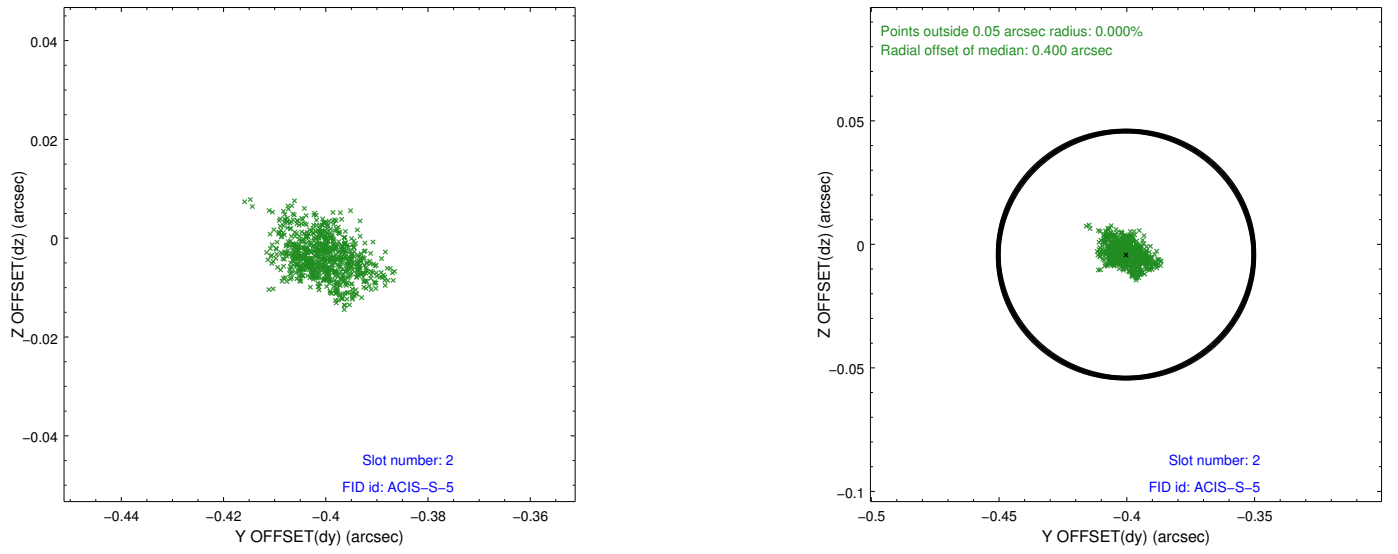
2.5.1 Slot 0



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)	2018.11.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0907000238895

A.2 Comments