

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18135 - L2 Version 1
Chandra X-Ray Center

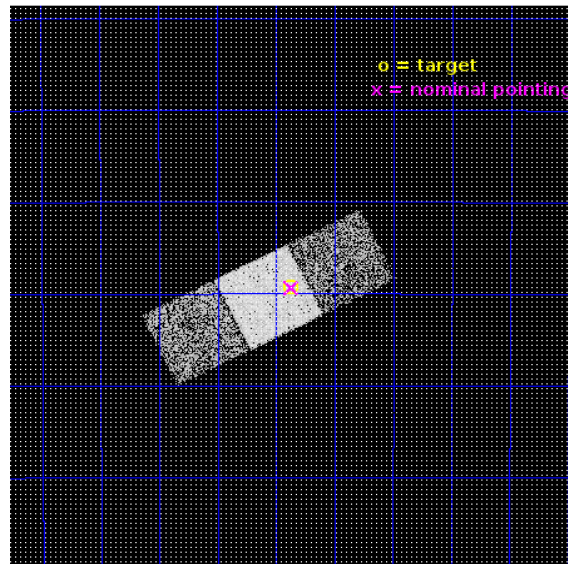
L2 Processing Date : Jun 22 2016

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

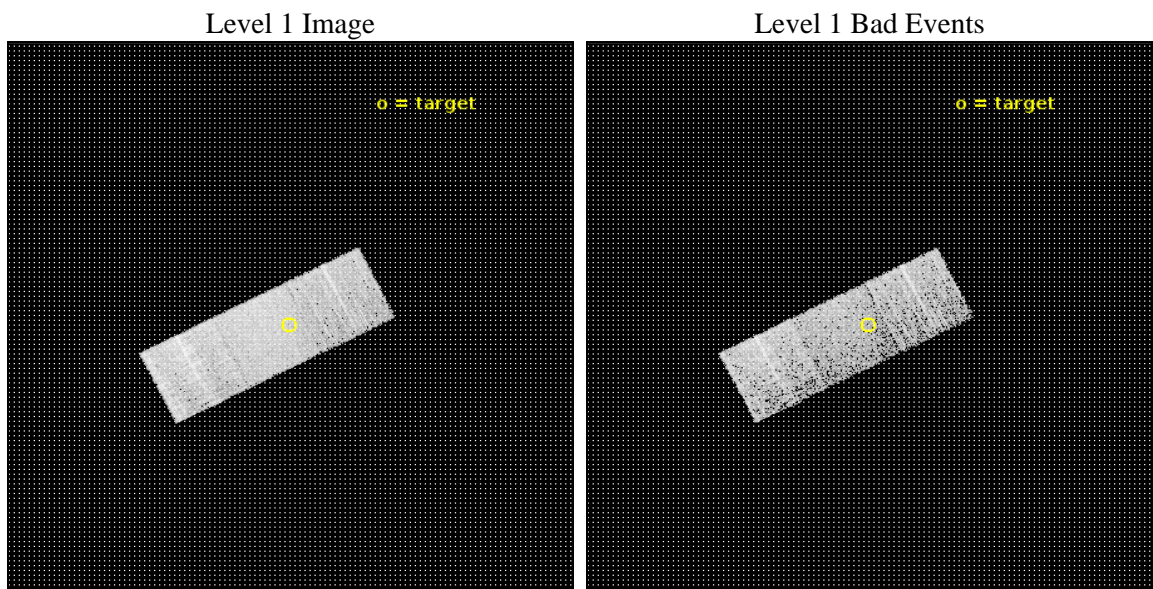
seq_num	703201	Sequence number
obs_id	18135	Observation id
title	X-RAYING FORNAX	Proposal title
observer	Elena Gallo	Principal investigator
object	fcc277	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	55.594583	Observer's specified target RA [deg]
dec_targ	-35.154	Observer's specified target Dec [deg]
ra_nom	55.592289856662	Nominal RA [deg]
dec_nom	-35.15585058454	Nominal Dec [deg]
roll_nom	153.15537712682	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4913.5000379086	Sum of GTIs [s]
livetime	4849.3015426472	Livetime [s]
ontime6	4913.5000379086	Sum of GTIs [s]
ontime7	4913.5000379086	Sum of GTIs [s]
ontime8	4913.5000379086	Sum of GTIs [s]
l2events	24159	Number of level 2 events



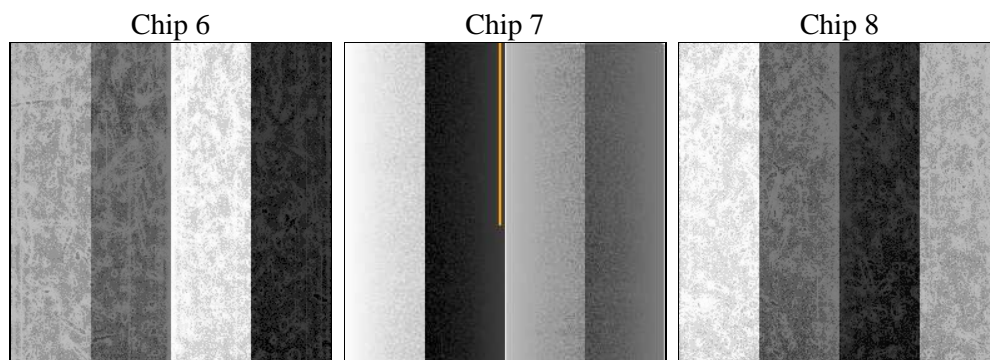
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4800.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	4913.5000379086	Sum of GTIs [s]
caldsver	4.7.2	 	ontime6	4913.5000379086	Sum of GTIs [s]
date	2016-06-22T17:23:10	Date and time of file creation	ontime7	4913.5000379086	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	4913.5000379086	Sum of GTIs [s]
			l1events	113166	Number of level 1 events

2.1.4 Events

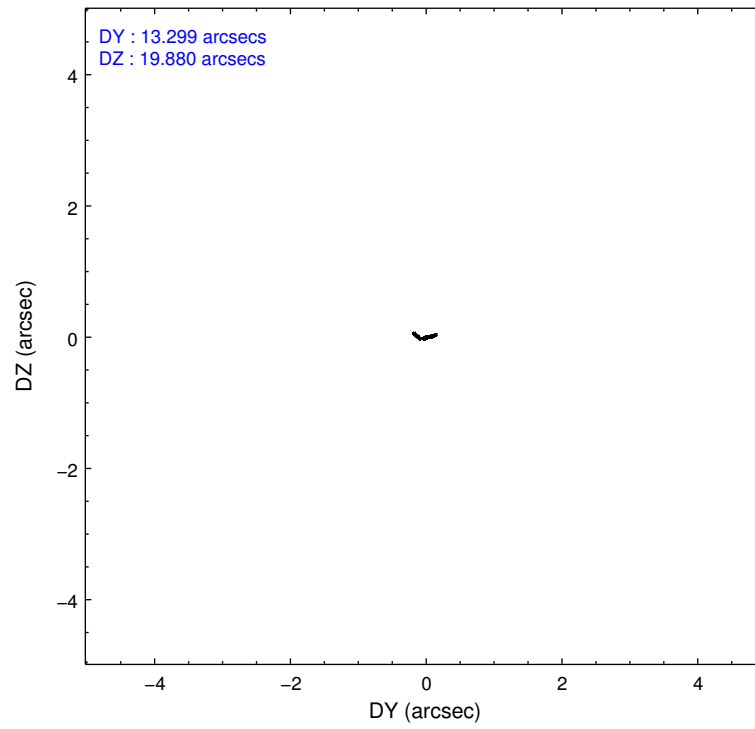
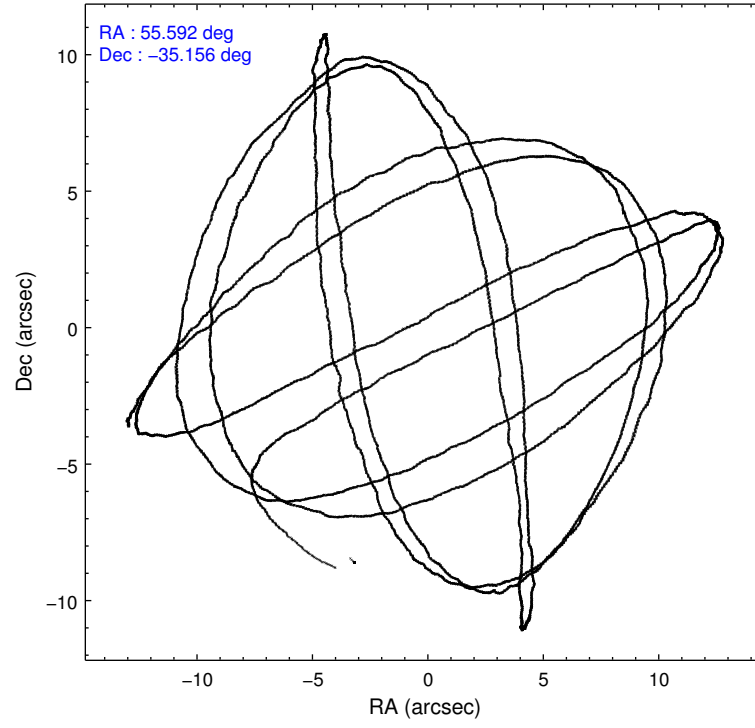
	ccd 6	ccd 7	ccd 8
level 1 events	30073	40108	42985
rejected events	26566	22312	31164
rejected %	88%	55%	72%

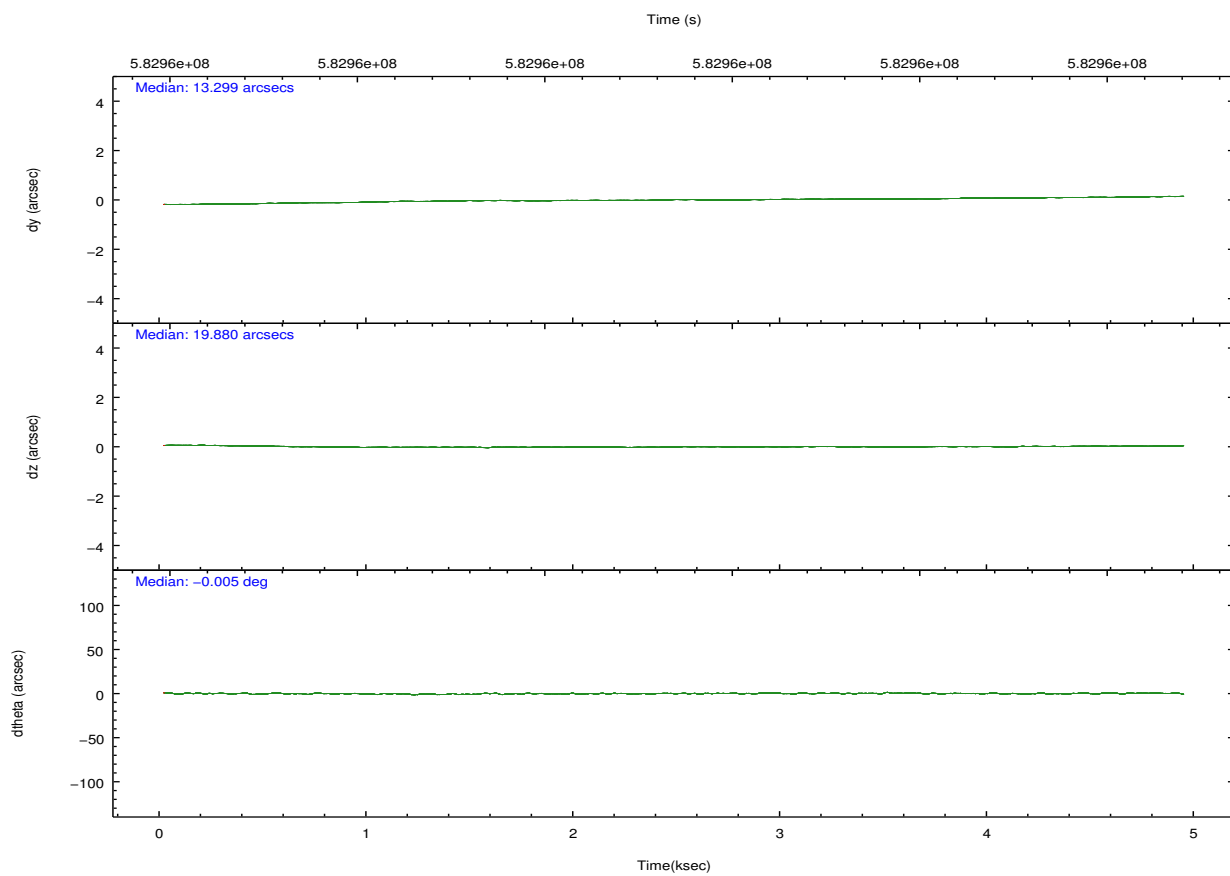
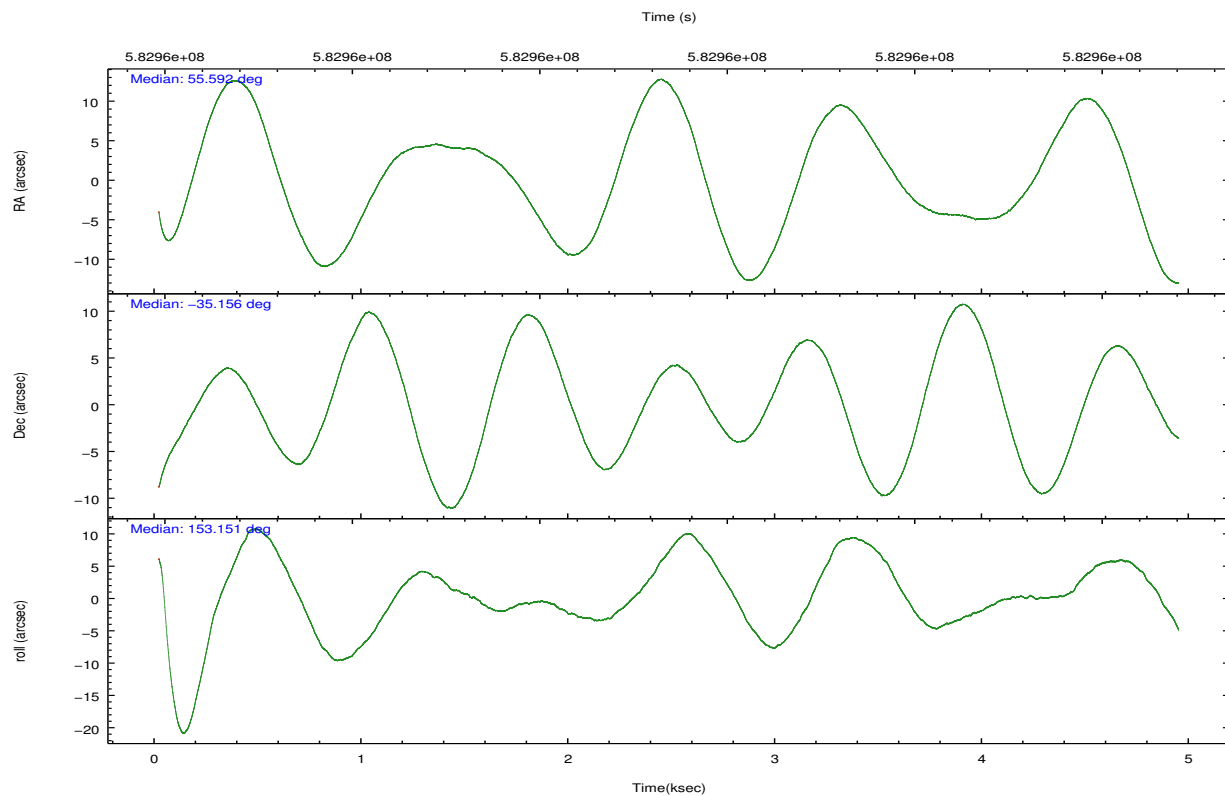
	ccd 6	ccd 7	ccd 8
grade 0 events	1205	1618	3353
	4%	4%	7%
grade 1 events	17	48	38
	0%	0%	0%
grade 2 events	791	3711	2986
	2%	9%	6%
grade 3 events	340	1413	1117
	1%	3%	2%
grade 4 events	349	1461	1097
	1%	3%	2%
grade 5 events	1527	4048	2223
	5%	10%	5%
grade 6 events	825	9601	3282
	2%	23%	7%
grade 7 events	25019	18208	28889
	83%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	55.625709	55.59228985666171	CCD I2 on	N	N
[deg] Pointing Dec	-35.153945	-35.15585058454015	CCD I3 on	N	N
[deg] Pointing Roll	153.017924	153.1553771268211	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	O2	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	O1	Y
[s] Observation start time (MET)	582956378.184000	582954630.50394	CCD S5 on	N	N
Observation start date	2016-06-22T04:18:30	2016-06-22T03:50:30	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	582961178.184000	582962196.02937	On-chip summing requested	N	N
Observation end date	2016-06-22T05:38:30	2016-06-22T05:56:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



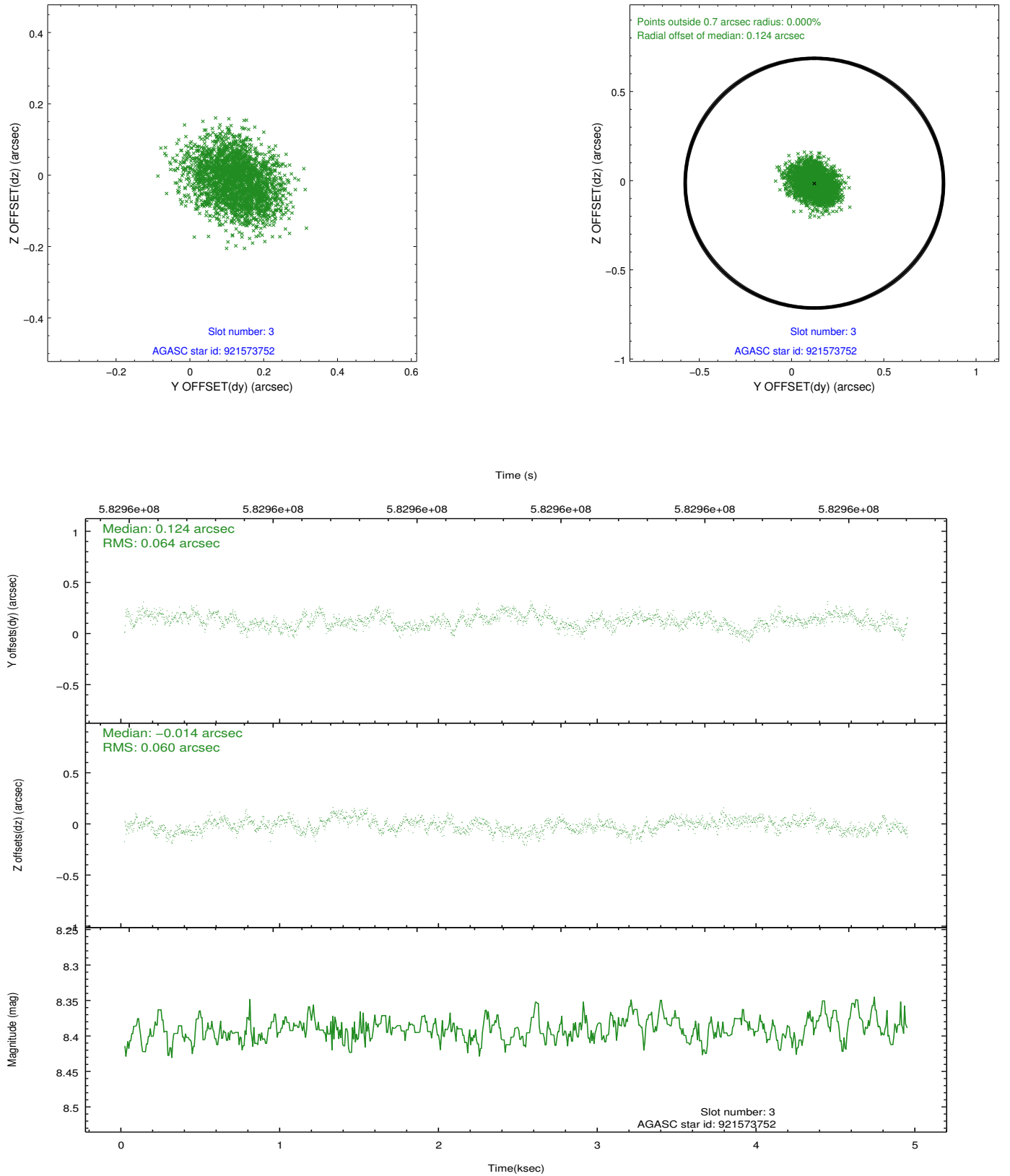


Slot Statistics

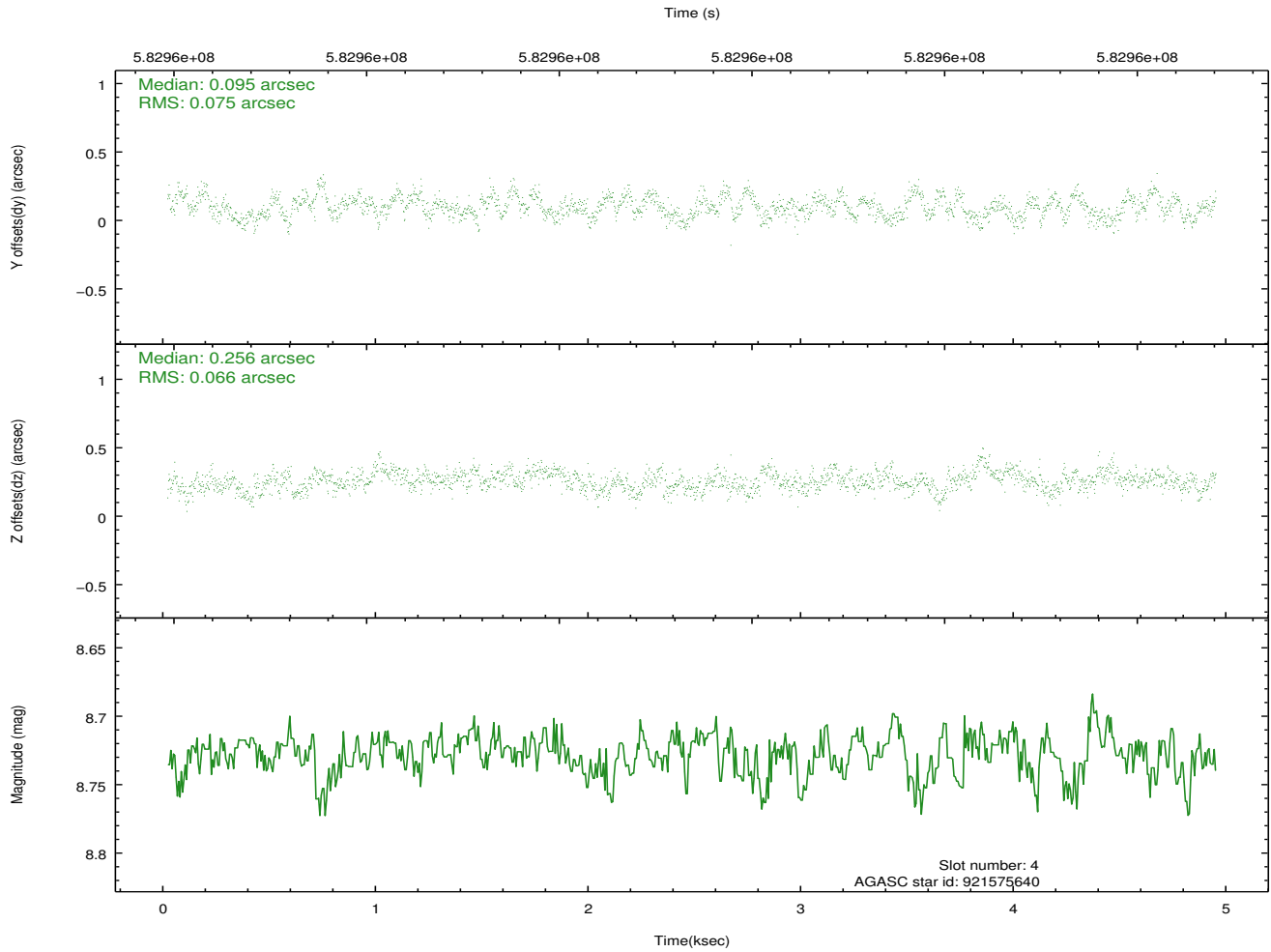
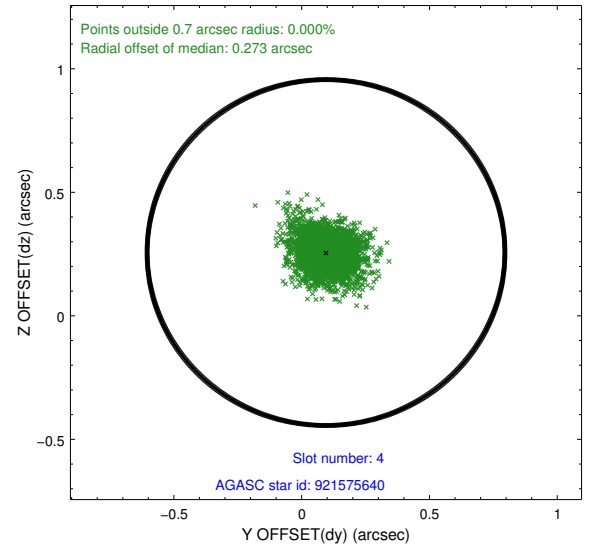
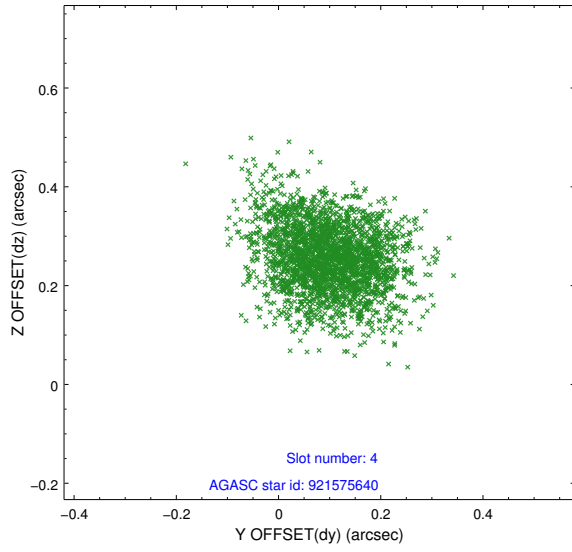
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.09	1203	-0.141	-0.051	0.007	0.012	0.000000	0.000000	-766.32	-1741.41
1	FID		ACIS-S-4	7.21	1203	0.369	0.082	0.007	0.013	0.000000	0.000000	2146.86	165.97
2	FID		ACIS-S-5	7.23	1202	-0.259	-0.022	0.007	0.013	0.000000	0.000000	-1817.73	160.88
3	GUIDE	used	921573752	8.39	2405	0.124	-0.014	0.094	0.149	55.297577	-34.906150	1267.94	-353.61
4	GUIDE	used	921575640	8.73	2403	0.095	0.256	0.107	0.173	55.538153	-34.421095	1430.00	-2232.51
5	GUIDE	used	921576376	9.58	2402	0.063	0.215	0.213	0.361	55.579902	-34.722200	827.33	-1324.45
6	GUIDE	used	921966528	6.75	2405	-0.409	-0.486	0.089	0.137	54.675841	-35.204254	2402.02	1440.16
7	GUIDE	used	921965352	9.58	2403	0.117	0.053	0.218	0.378	56.101758	-35.771375	-2248.77	1353.87

2.4 Star Slots

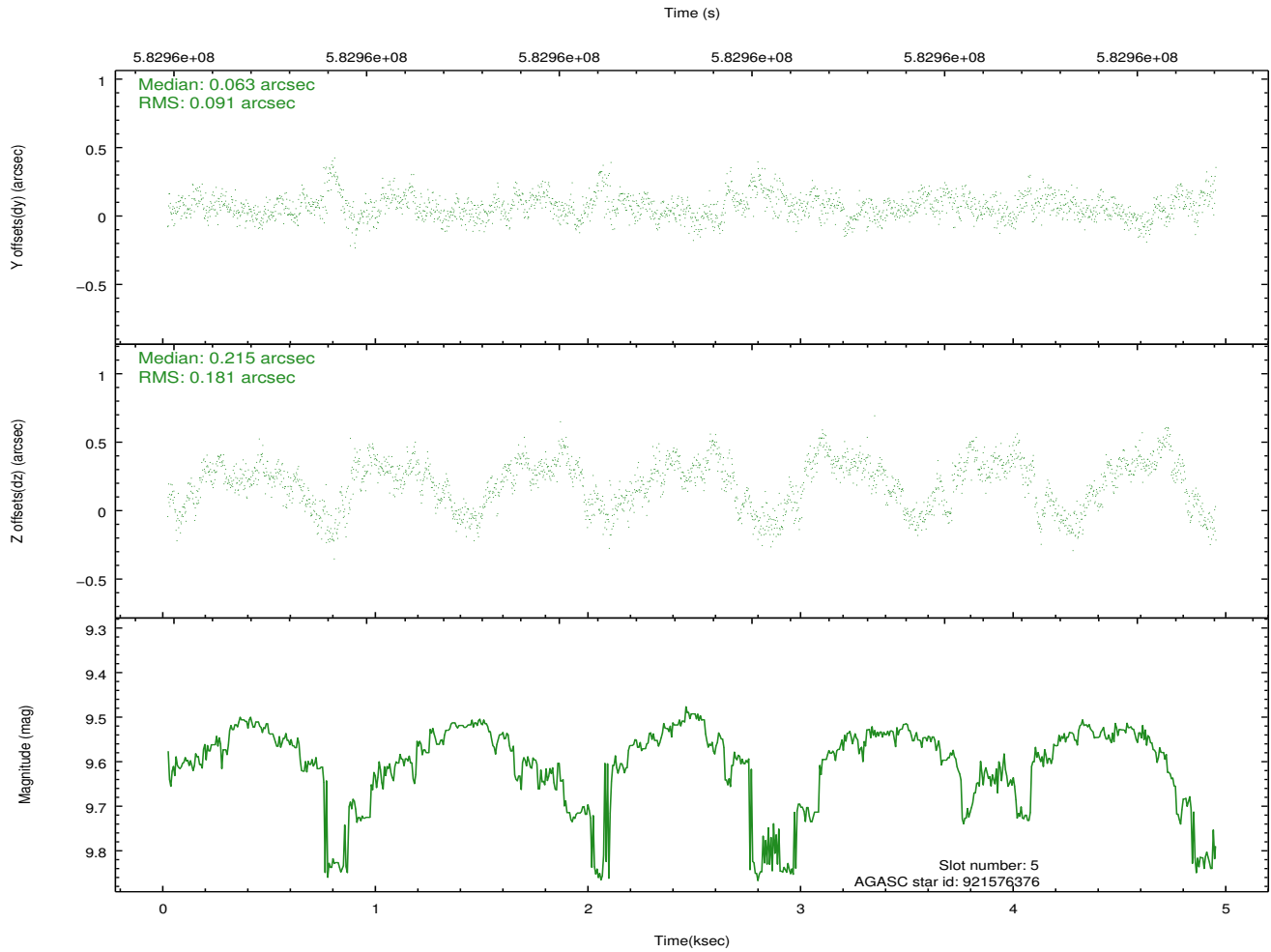
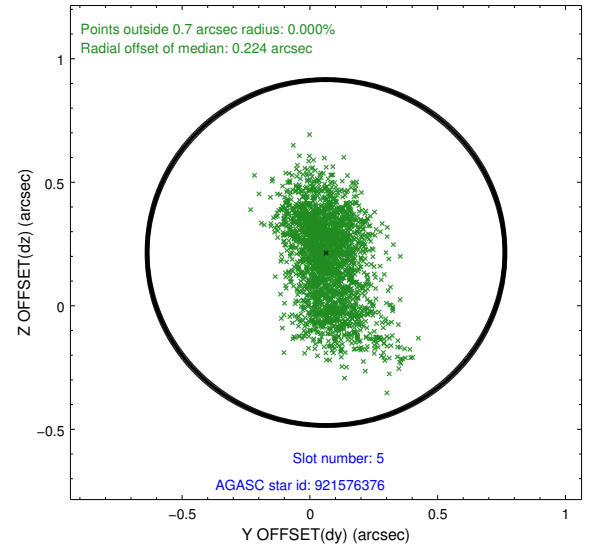
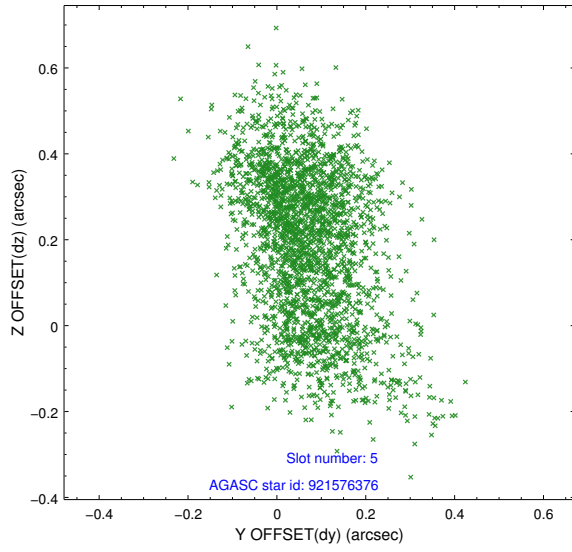
2.4.1 Slot 3



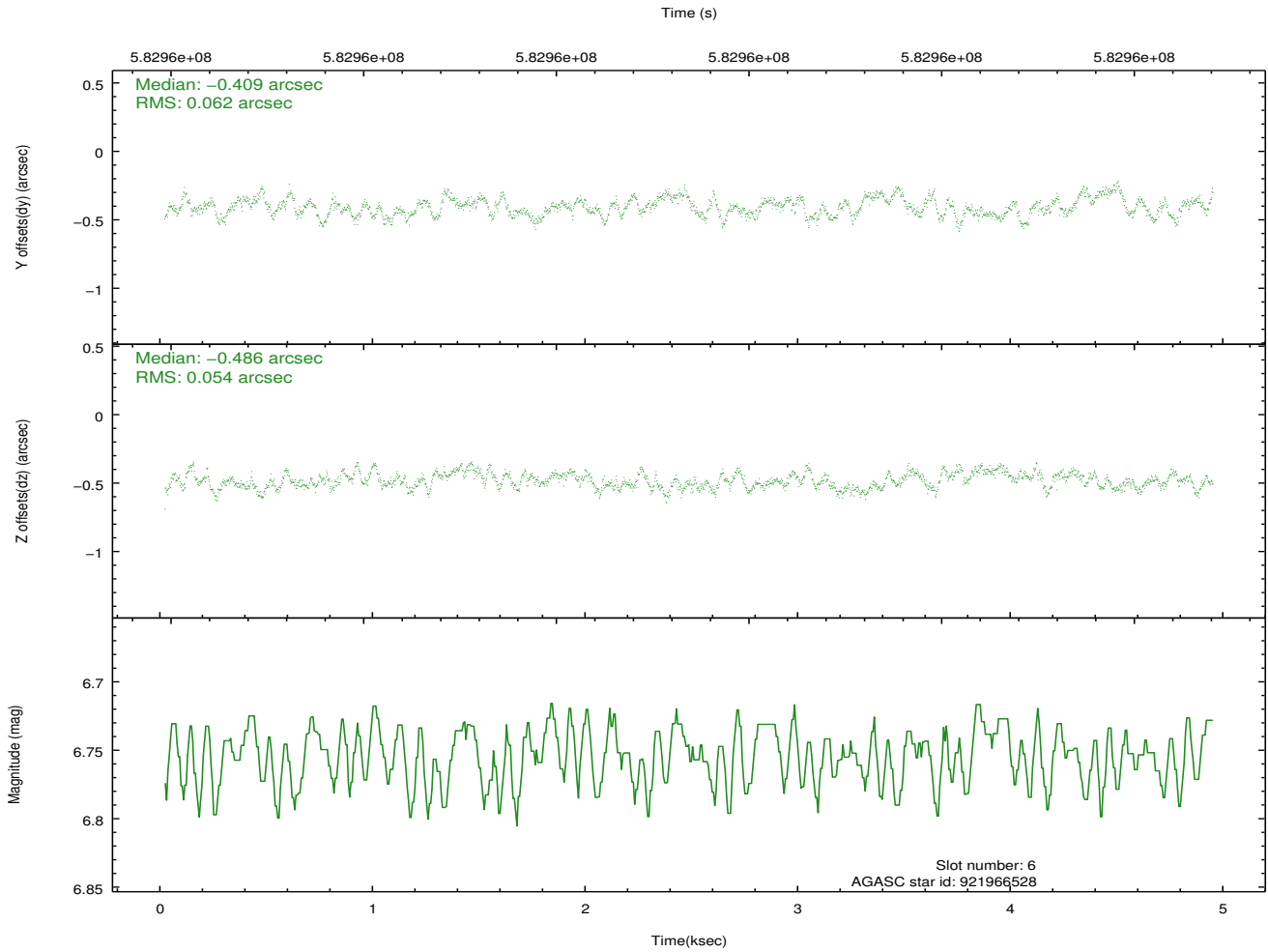
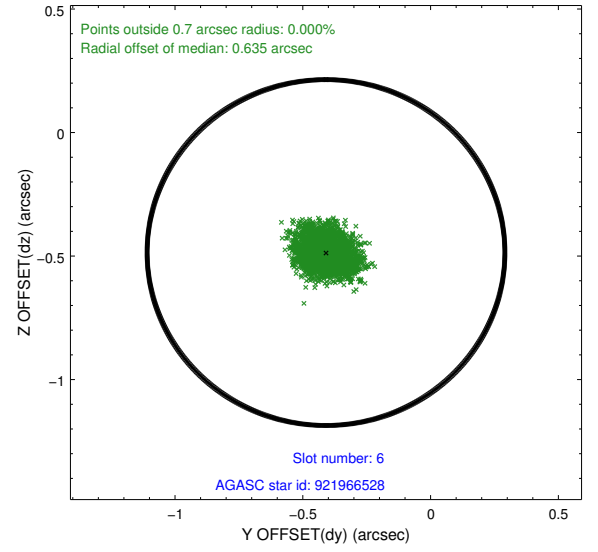
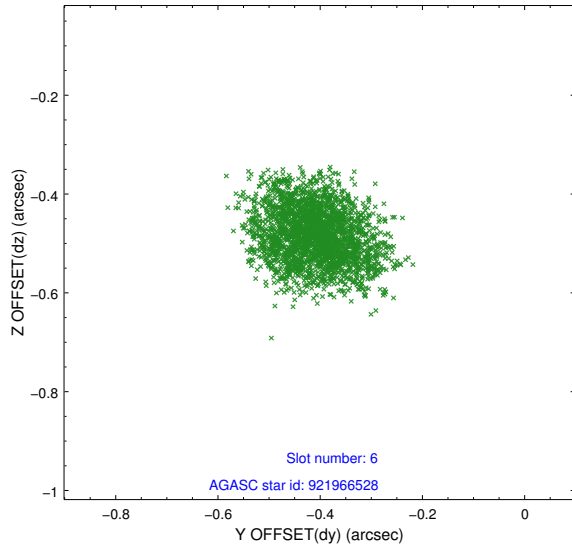
2.4.2 Slot 4



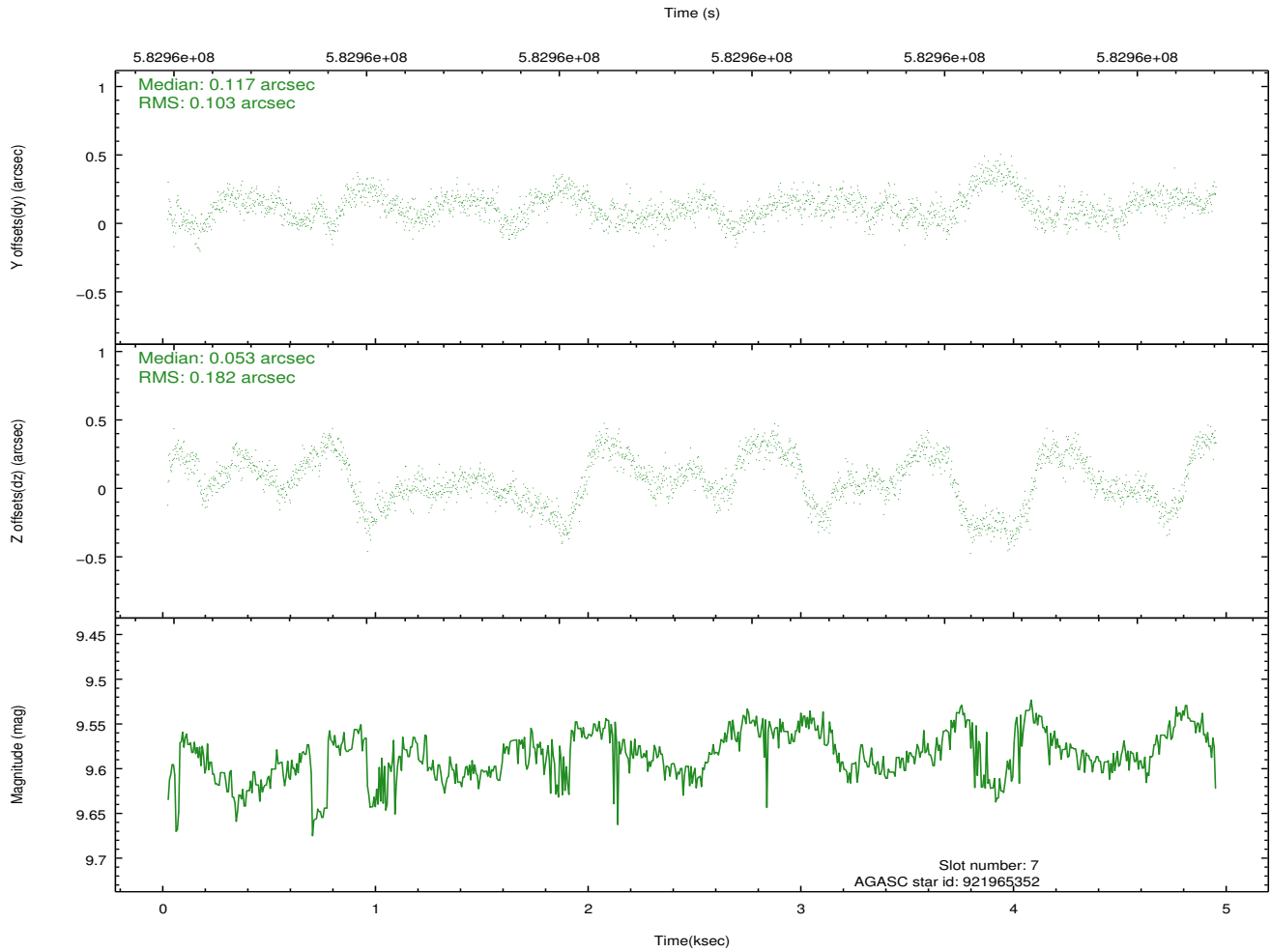
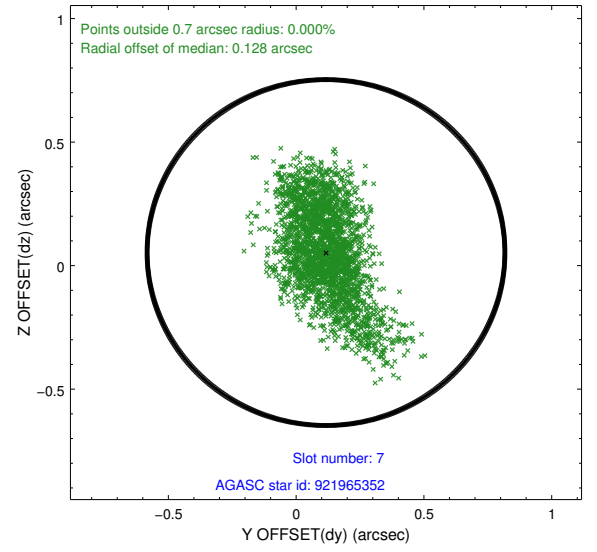
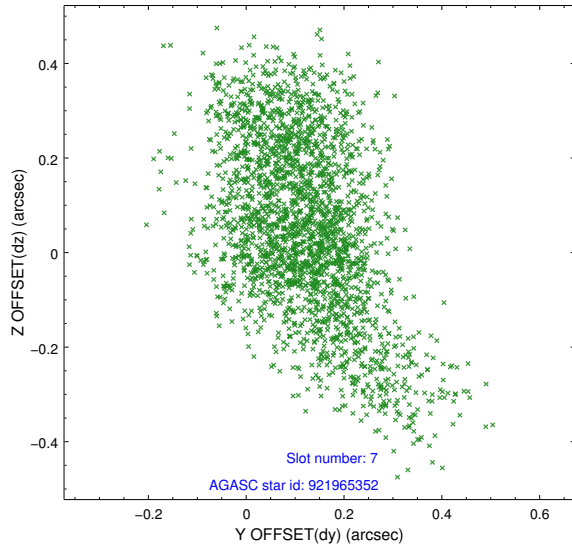
2.4.3 Slot 5



2.4.4 Slot 6

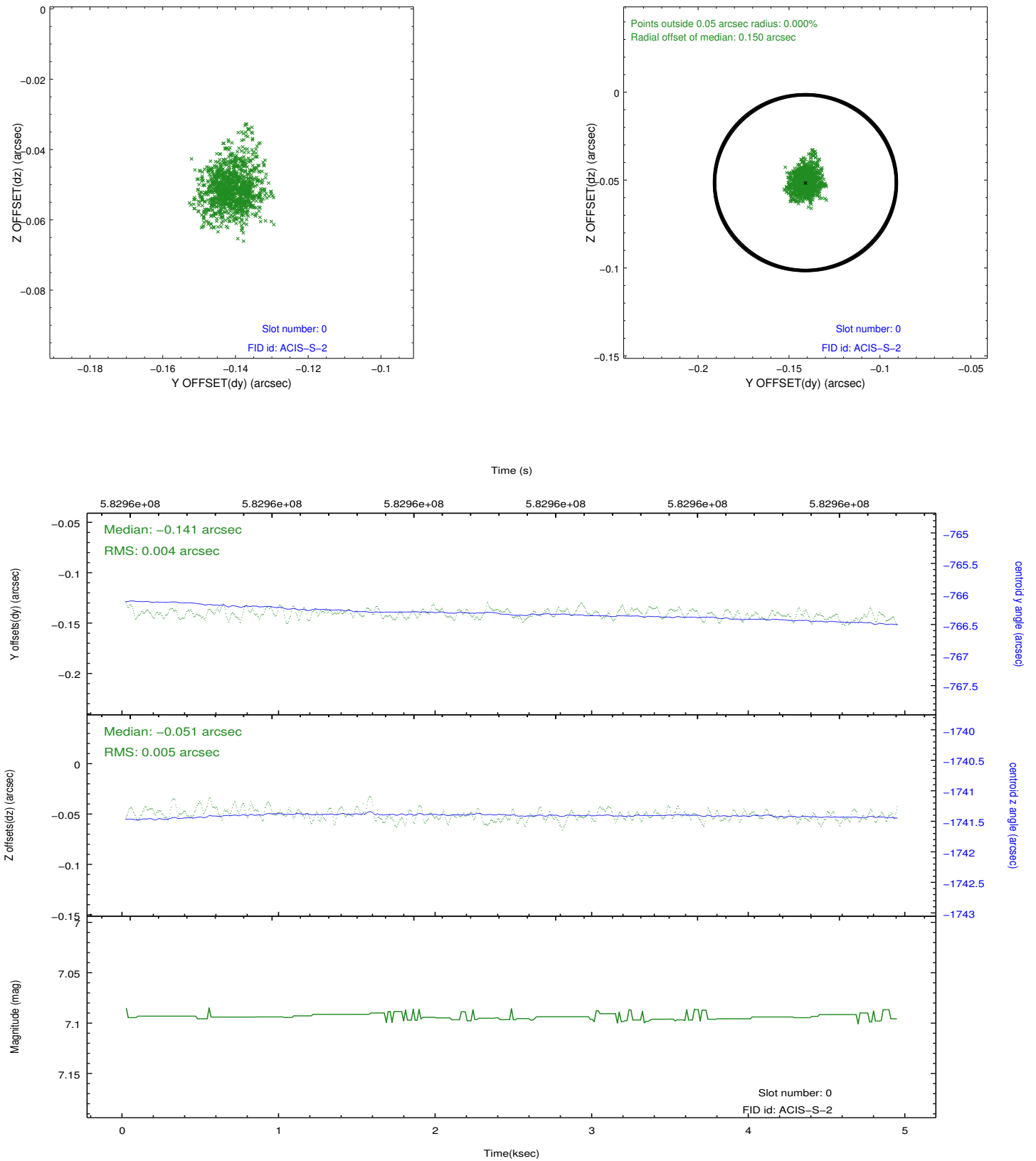


2.4.5 Slot 7

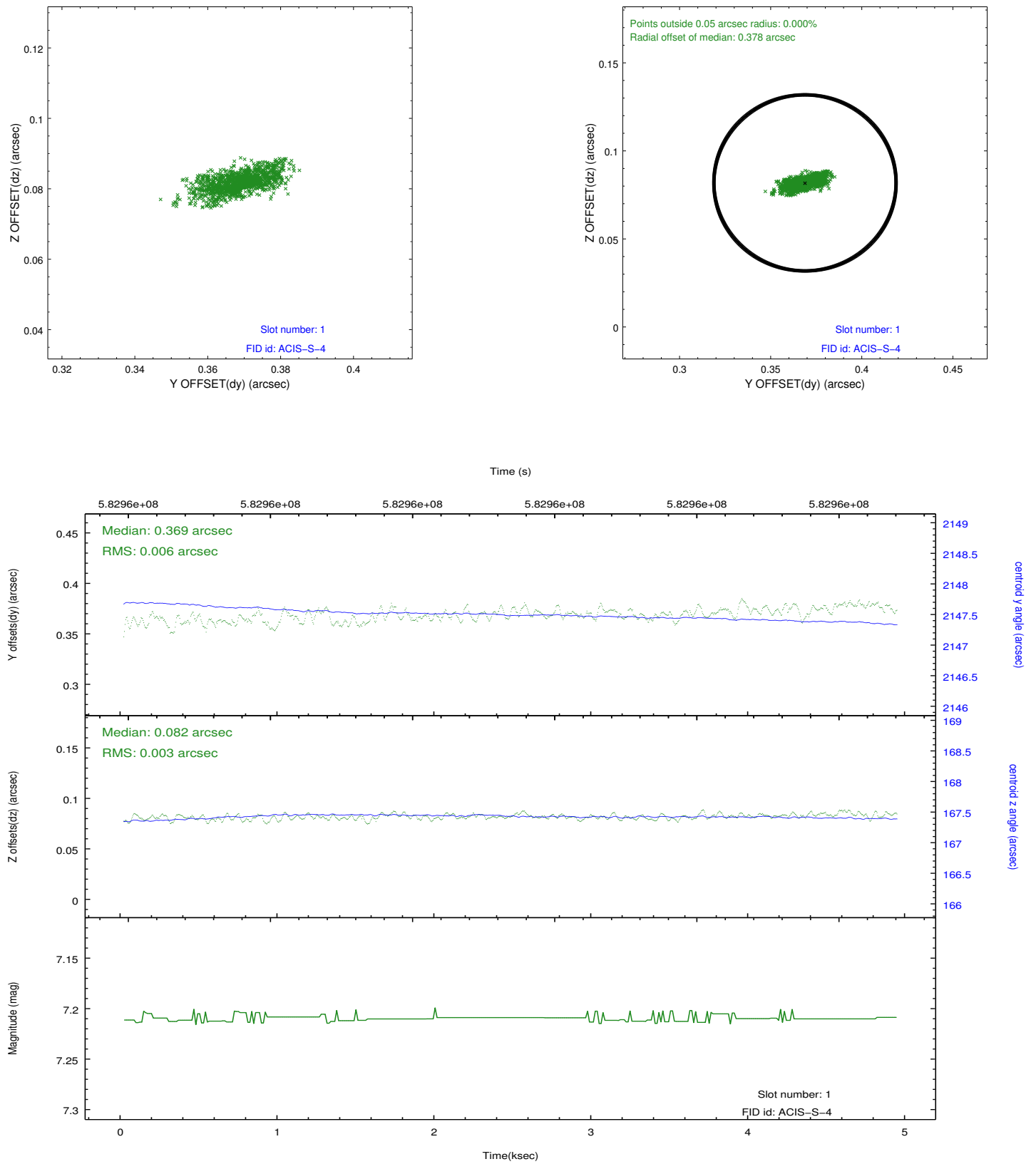


2.5 FID Slots

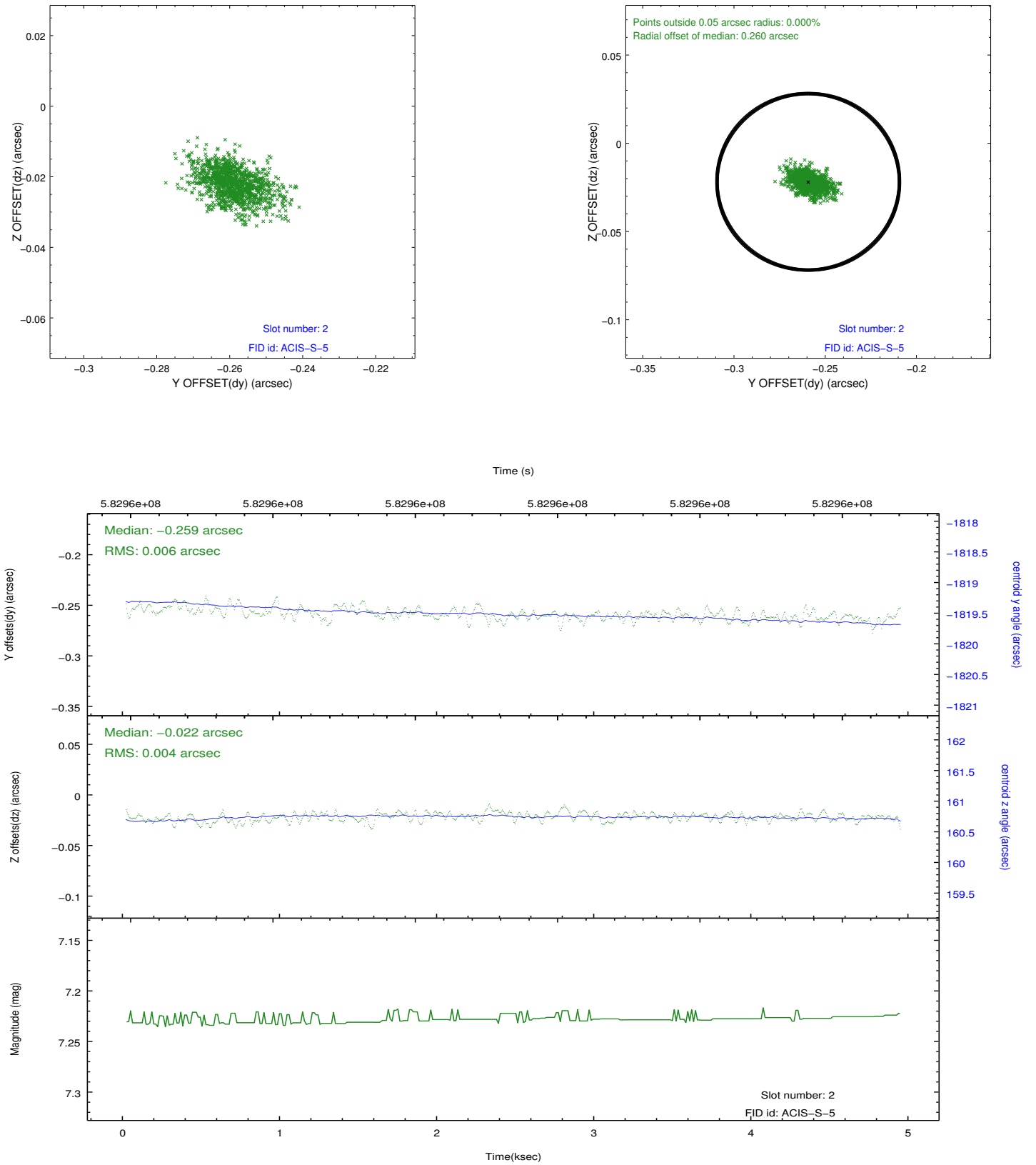
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9135000379086

A.2 Comments