

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 20390 - L2 Version 1
Chandra X-Ray Center

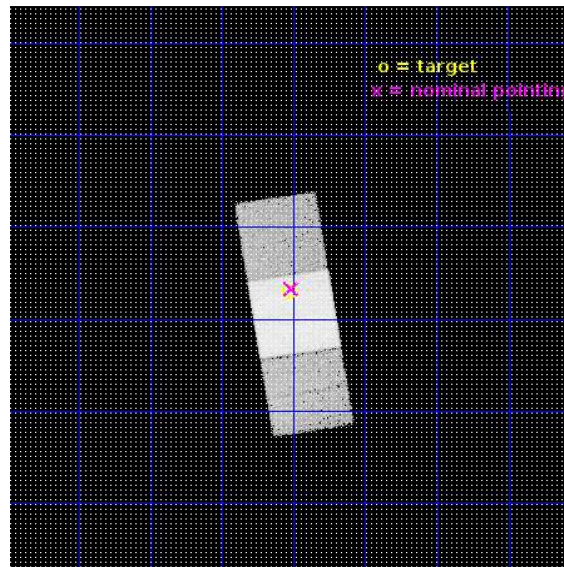
L2 Processing Date : Oct 10 2018

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

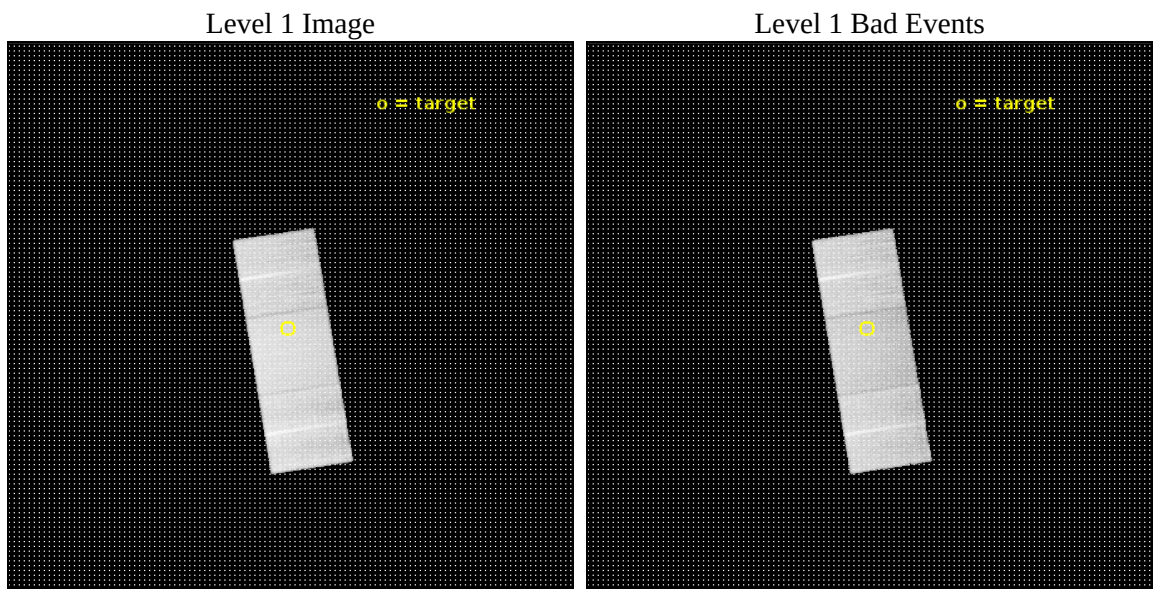
seq_num	703495	Sequence number
obs_id	20390	Observation id
title	A Reliable X-ray View of the First Quasars	Proposal title
observer	William Brandt	Principal investigator
object	PSO J0226+0302	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.507917	Observer's specified target RA [deg]
dec_targ	3.049833	Observer's specified target Dec [deg]
ra_nom	36.50392981623	Nominal RA [deg]
dec_nom	3.0551111527943	Nominal Dec [deg]
roll_nom	80.915884228436	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26244.301673055	Sum of GTIs [s]
livetime	25901.400550922	Livetime [s]
ontime6	26244.260633111	Sum of GTIs [s]
ontime7	26244.301673055	Sum of GTIs [s]
ontime8	26244.219593048	Sum of GTIs [s]
l2events	145692	Number of level 2 events



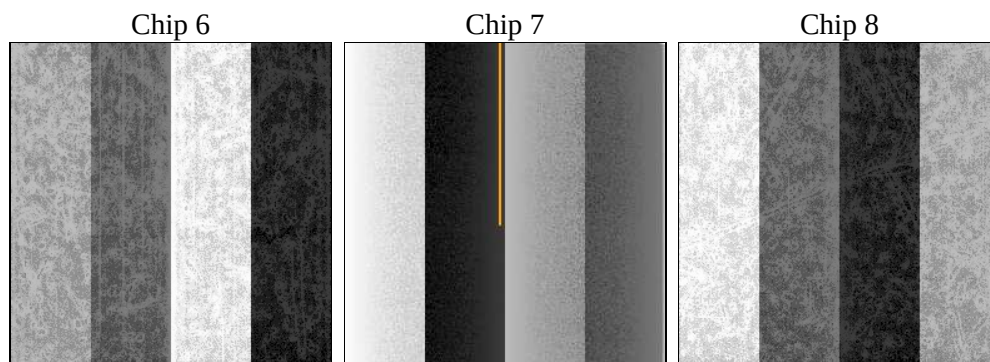
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26134.729000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	26244.301673055	Sum of GTIs [s]
caldsver	4.8.0	 	ontime6	26244.260633111	Sum of GTIs [s]
date	2018-10-10T05:46:12	Date and time of file creation	ontime7	26244.301673055	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	26244.219593048	Sum of GTIs [s]
			l1events	705995	Number of level 1 events

2.1.4 Events

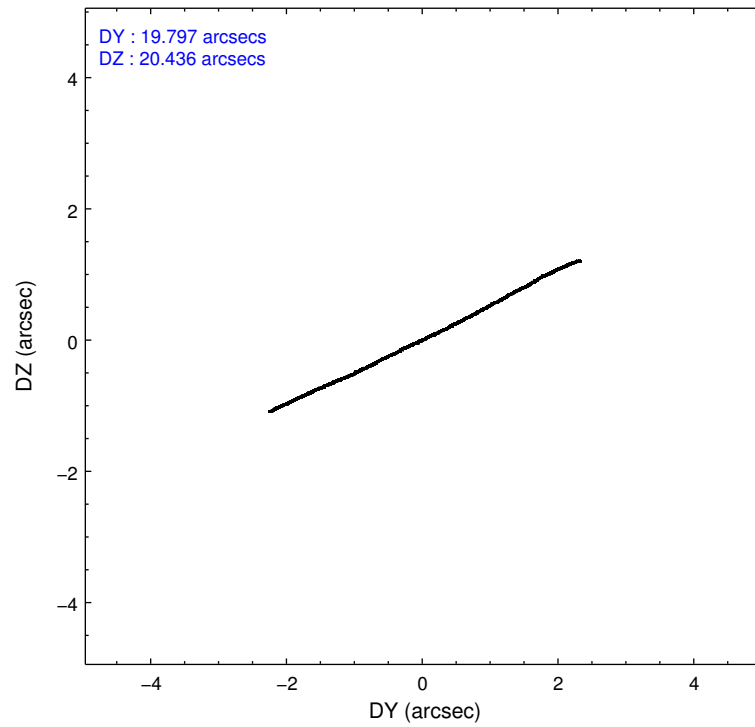
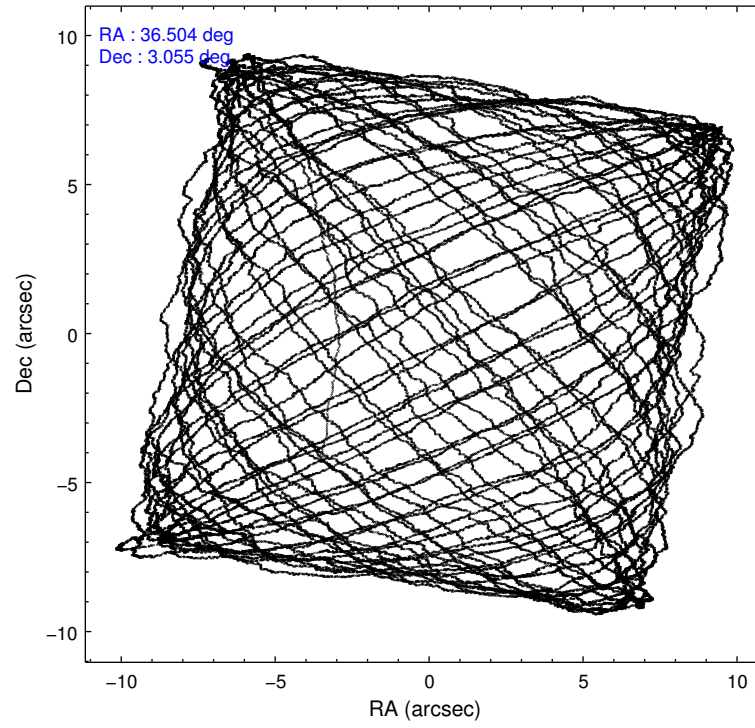
	ccd 6	ccd 7	ccd 8
level 1 events	206572	250331	249092
rejected events	184486	142935	186753
rejected %	89%	57%	74%

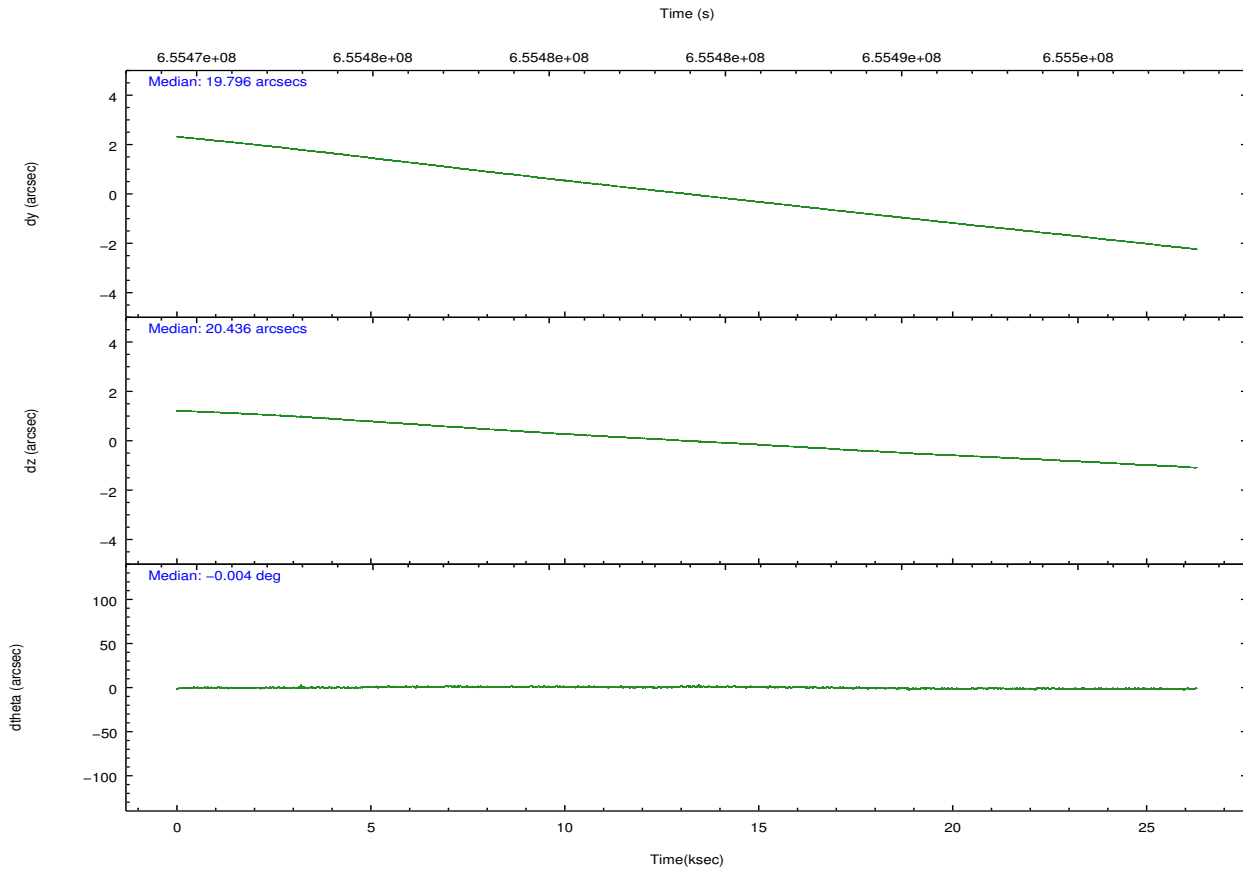
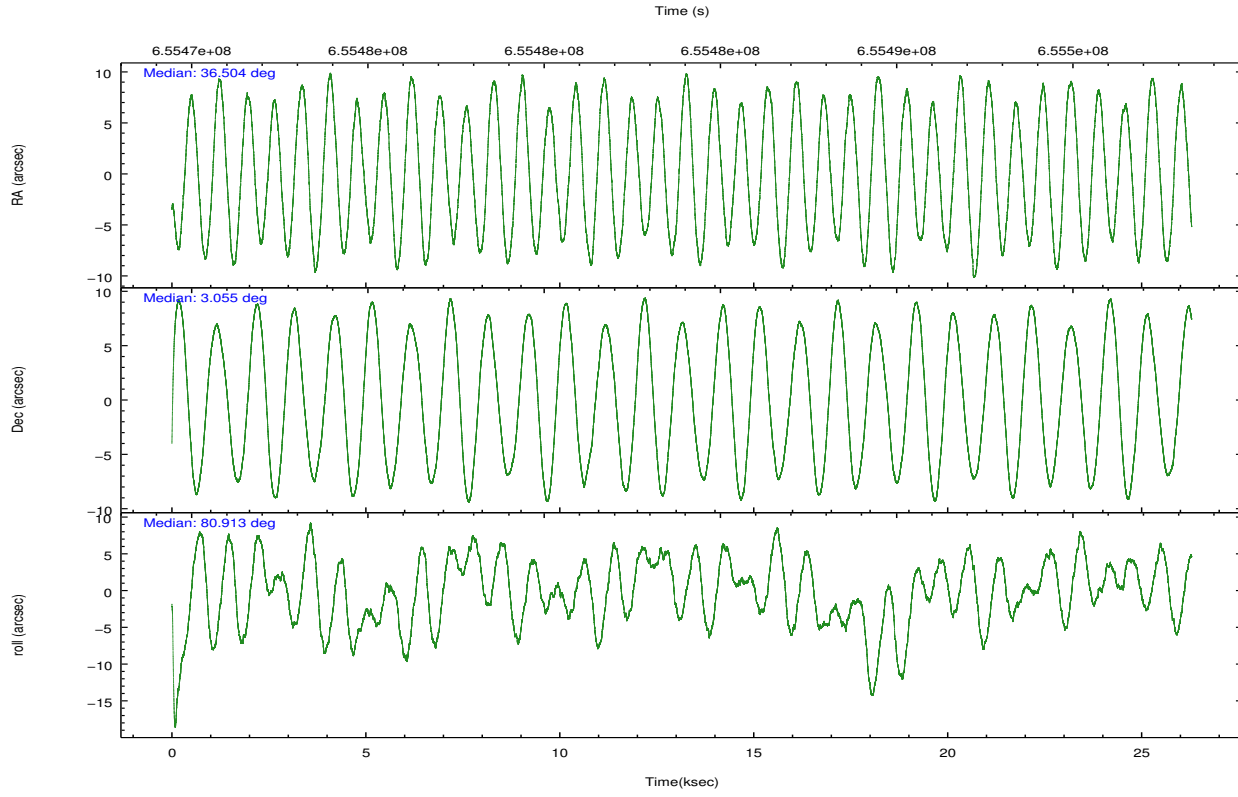
	ccd 6	ccd 7	ccd 8
grade 0 events	6408	8799	17451
	3%	3%	7%
grade 1 events	76	360	175
	0%	0%	0%
grade 2 events	5937	22616	15257
	2%	9%	6%
grade 3 events	1930	8270	6489
	0%	3%	2%
grade 4 events	1944	8099	5927
	0%	3%	2%
grade 5 events	8401	24369	13290
	4%	9%	5%
grade 6 events	5873	59630	17246
	2%	23%	6%
grade 7 events	176003	118188	173257
	85%	47%	69%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	36.514086	36.50392981623022	Subarray requested	NONE	NONE
[deg] Pointing Dec	3.029584	3.055111152794254	Alternating exposures requested	N	N
[deg] Pointing Roll	80.758709	80.91588422843627	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	655470905.184000	655469596.33986			
Observation start date	2018-10-09T11:13:56	2018-10-09T10:53:16			
[s] Observation end time (MET)	655497040.184000	655498160.01656			
Observation end date	2018-10-09T18:29:31	2018-10-09T18:49:20			
Read mode	TIMED	TIMED			

2.3 Aspect



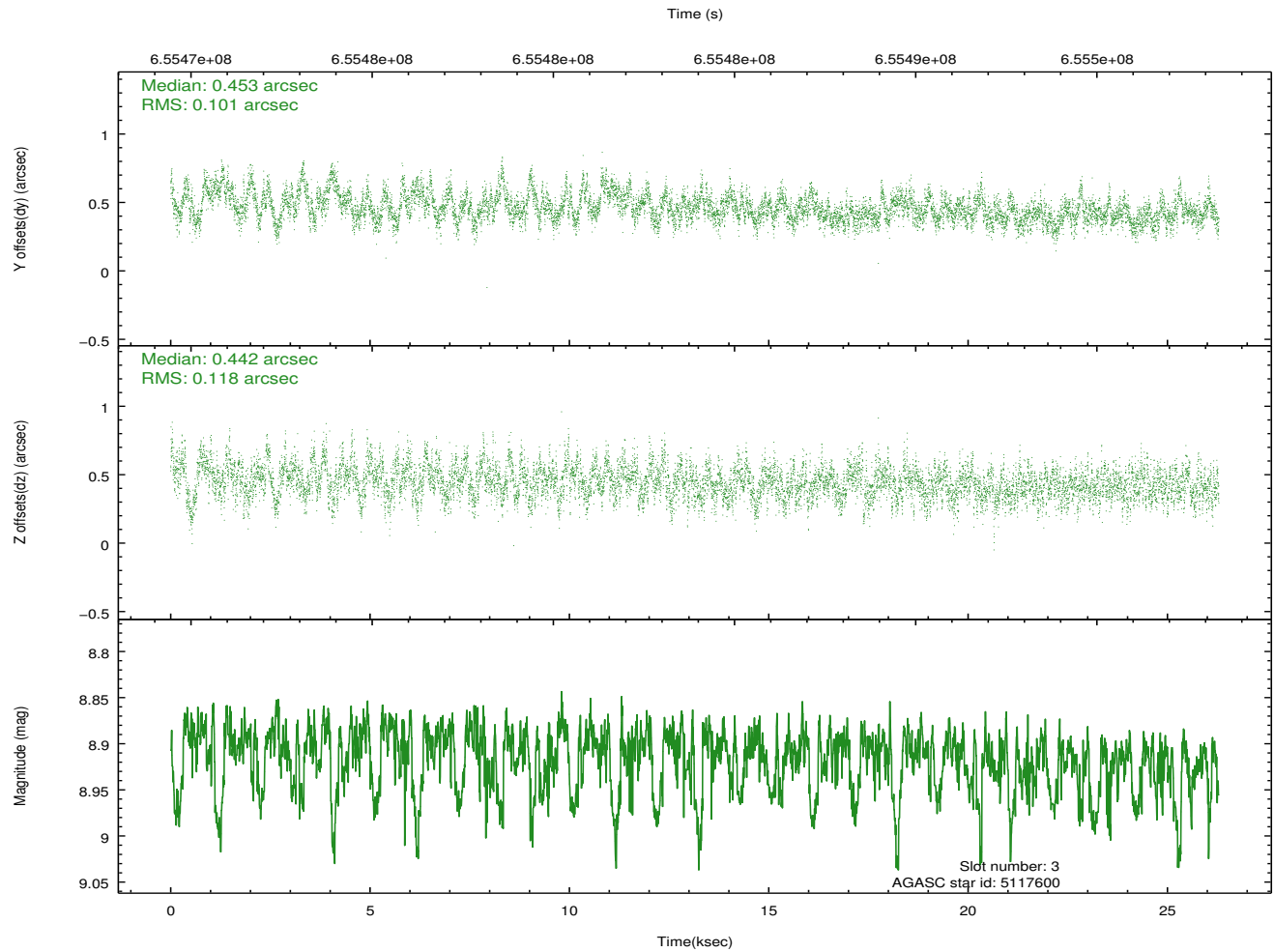
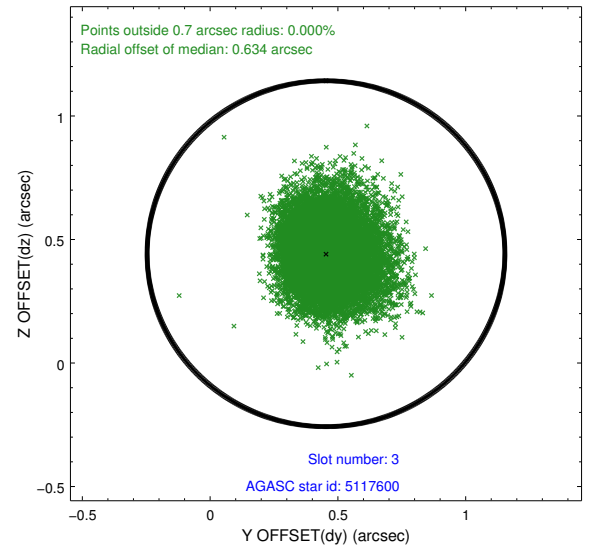
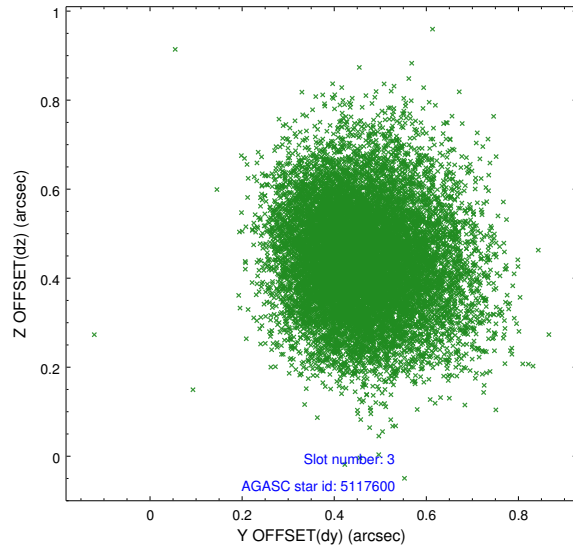


Slot Statistics

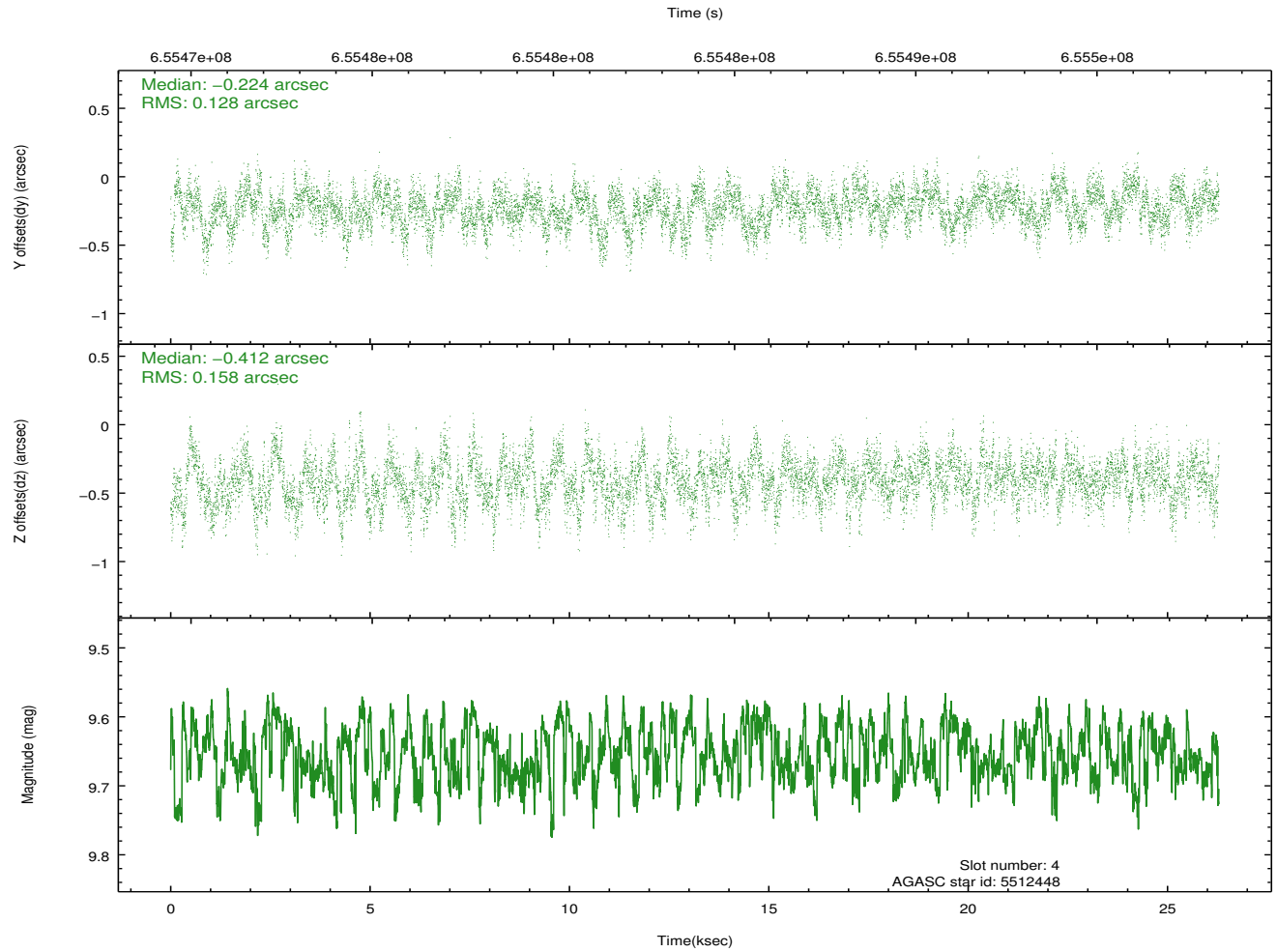
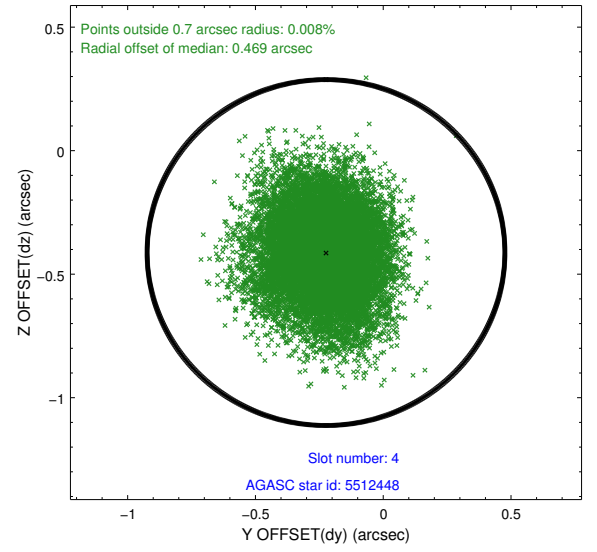
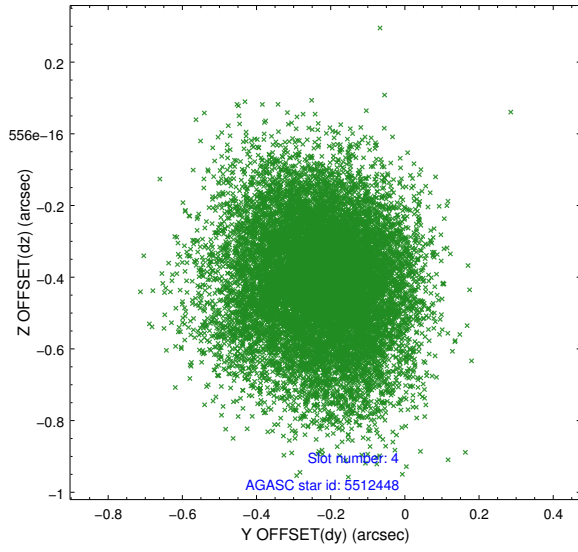
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.12	6413	1.000	-0.259	-0.156	0.027	0.036	0.000000	0.000000	-773.17	-1742
1	FID		ACIS-S-4	7.25	6412	1.000	0.564	0.167	0.025	0.040	0.000000	0.000000	2140.88	166
2	FID		ACIS-S-5	7.23	6413	1.000	-0.340	-0.002	0.024	0.033	0.000000	0.000000	-1825.96	160
3	GUIDE	used	5117600	8.91	12811	1.000	0.453	0.442	0.164	0.269	36.768754	2.485612	-1784.71	-1218
4	GUIDE	used	5512448	9.66	12810	1.000	-0.224	-0.412	0.217	0.353	36.514583	3.532118	1786.14	288
5	GUIDE	used	5513472	8.59	12815	1.000	-0.421	-0.358	0.157	0.263	36.342667	3.609304	1961.20	942
6	GUIDE	used	5514984	9.34	12801	1.000	-0.088	0.183	0.170	0.287	36.884405	3.533570	2005.33	-1021
7	GUIDE	used	5515040	7.98	12818	1.000	0.281	0.145	0.156	0.275	37.186298	3.572790	2319.78	-2071

2.4 Star Slots

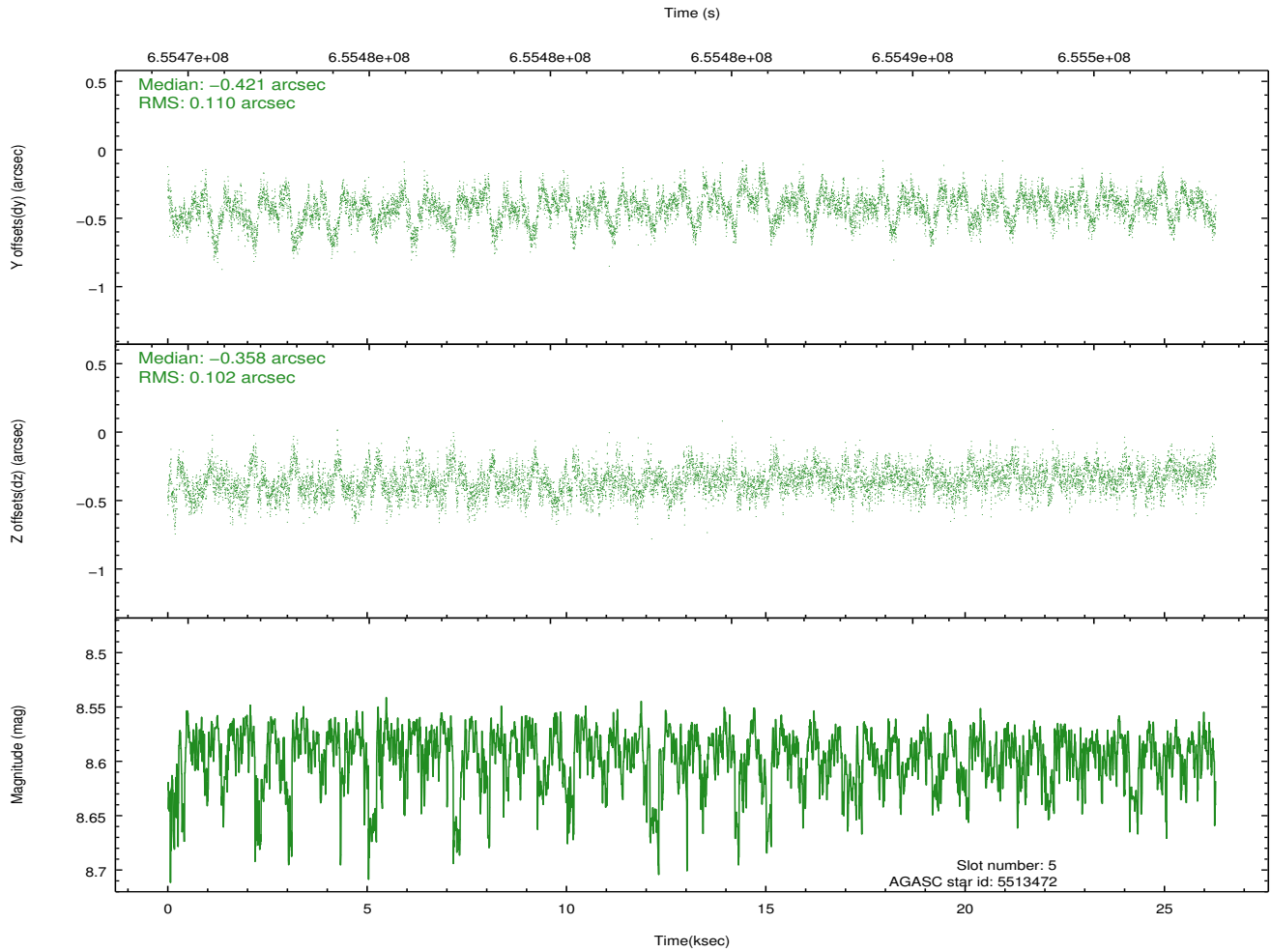
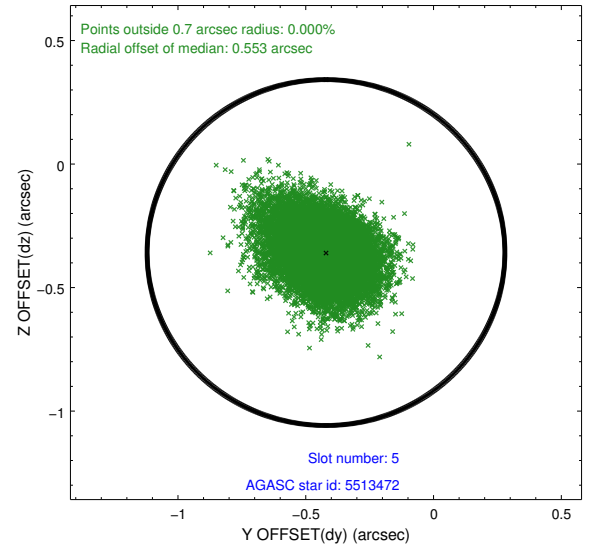
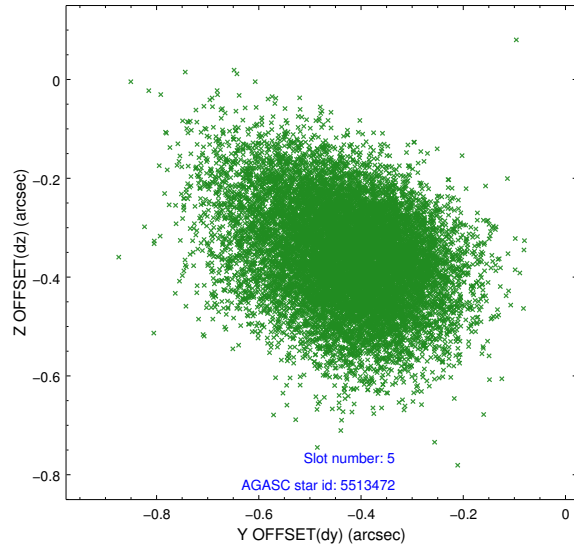
2.4.1 Slot 3



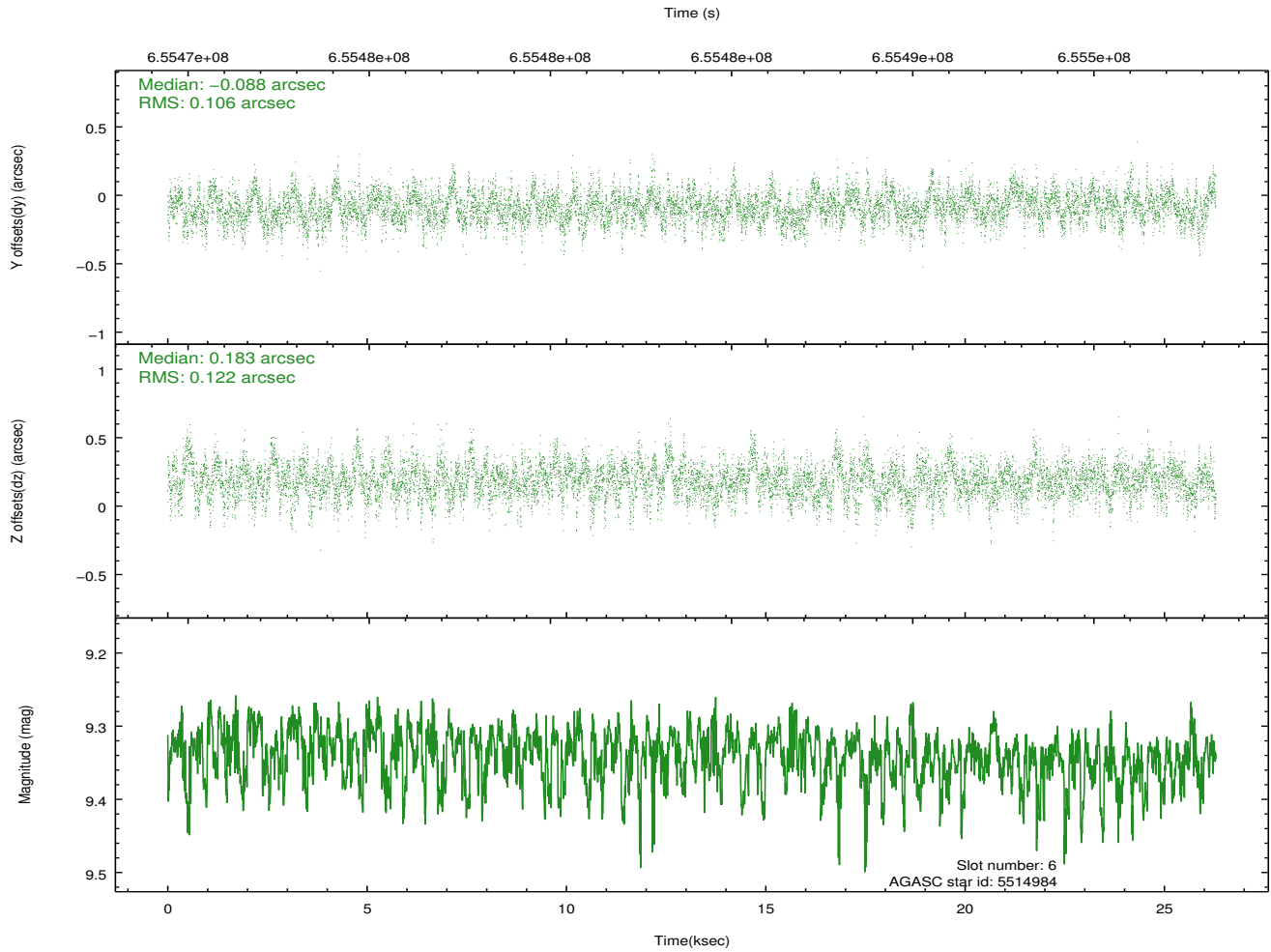
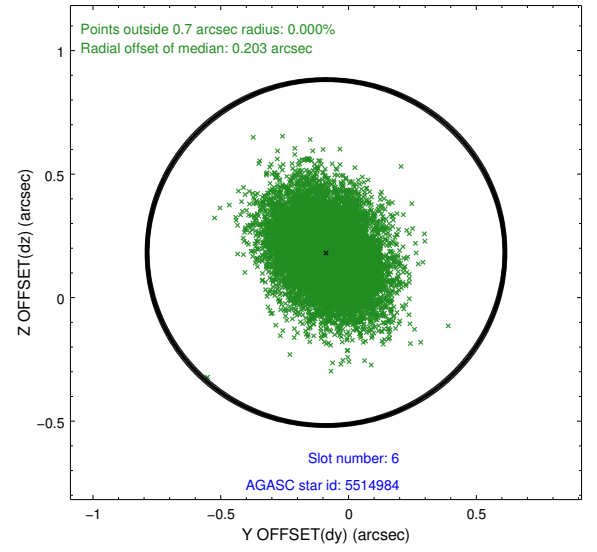
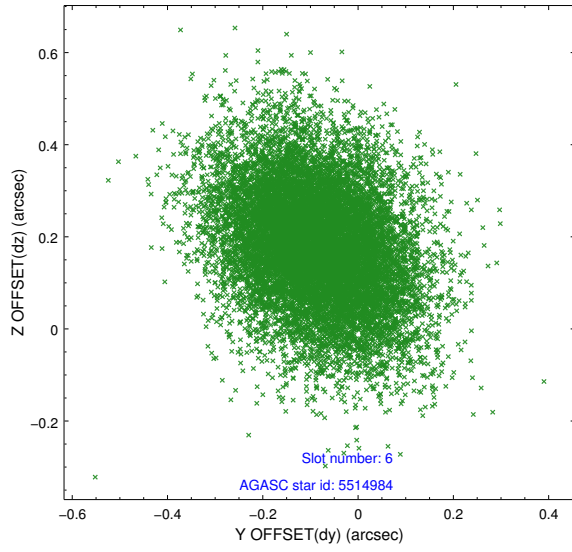
2.4.2 Slot 4



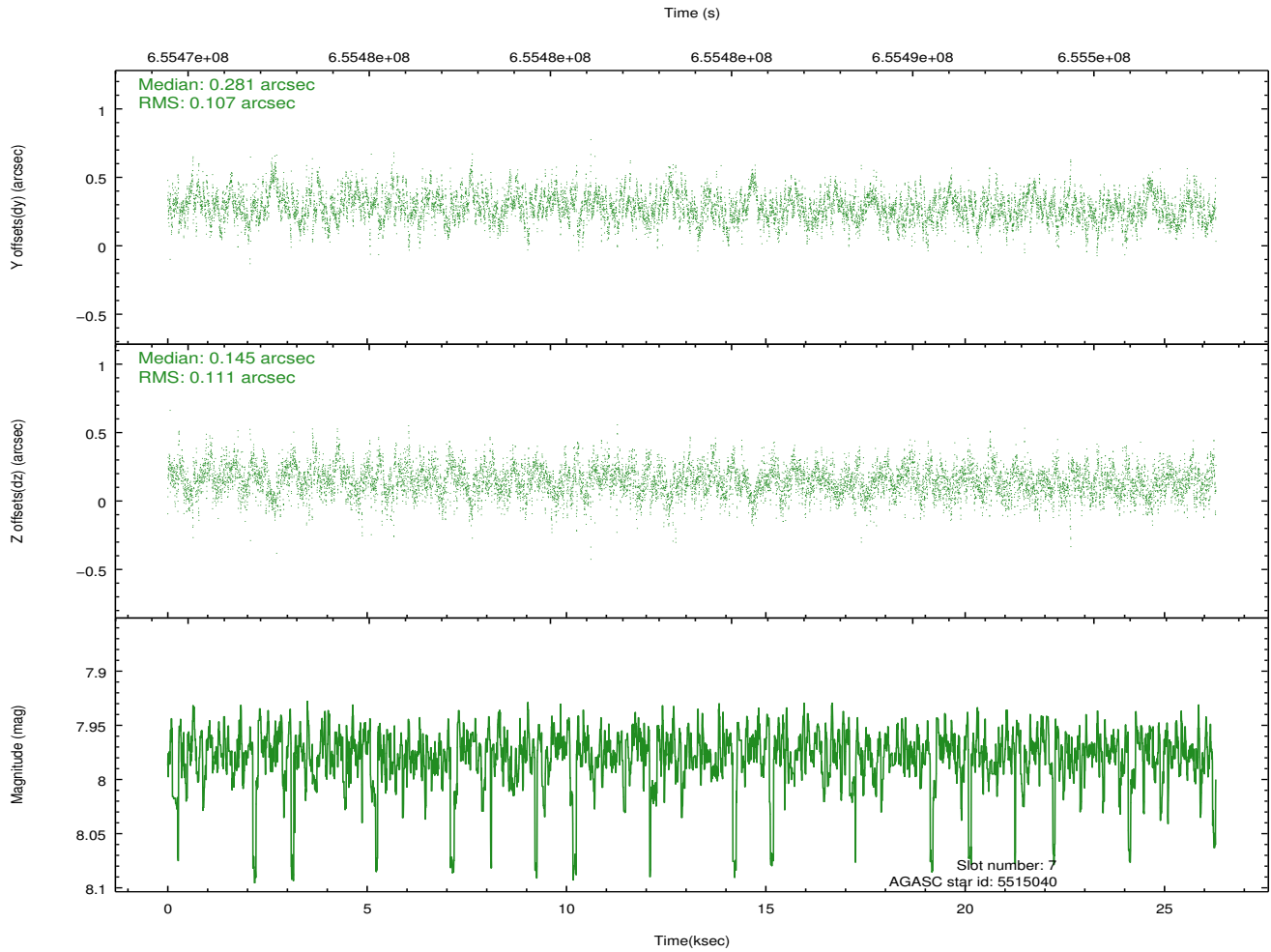
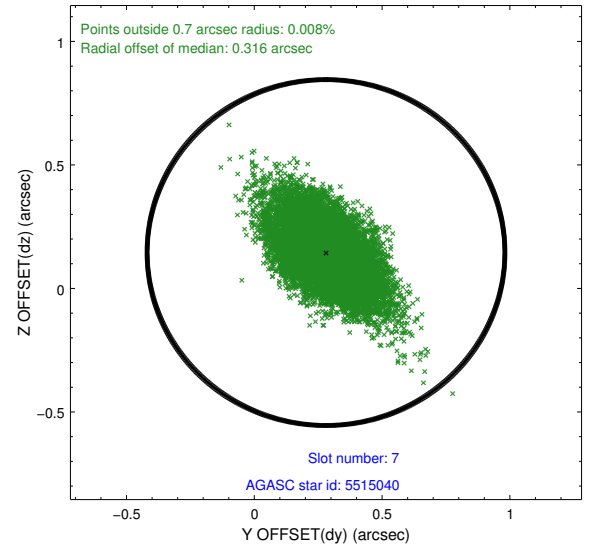
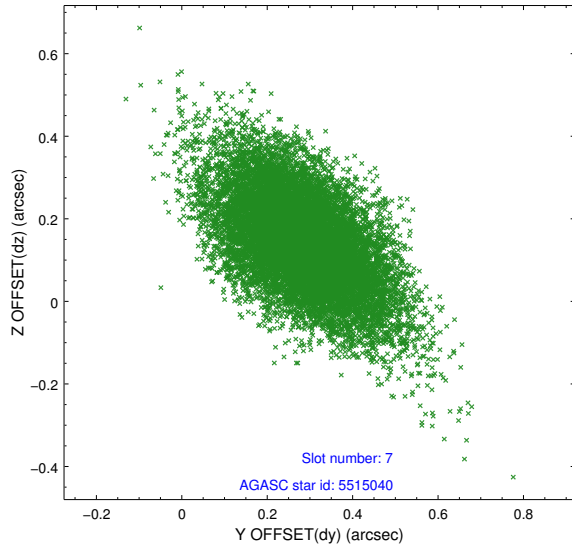
2.4.3 Slot 5



2.4.4 Slot 6

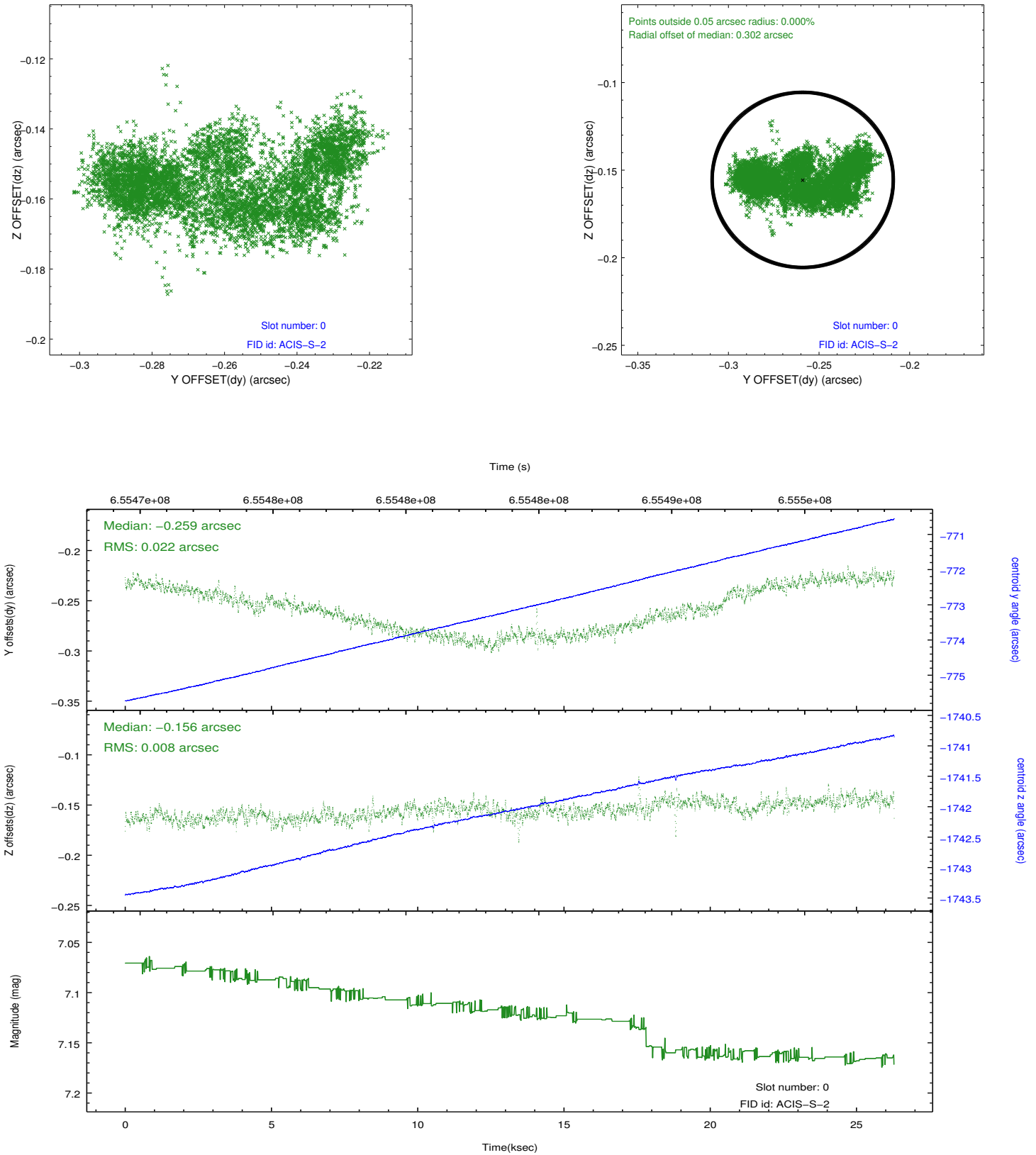


2.4.5 Slot 7

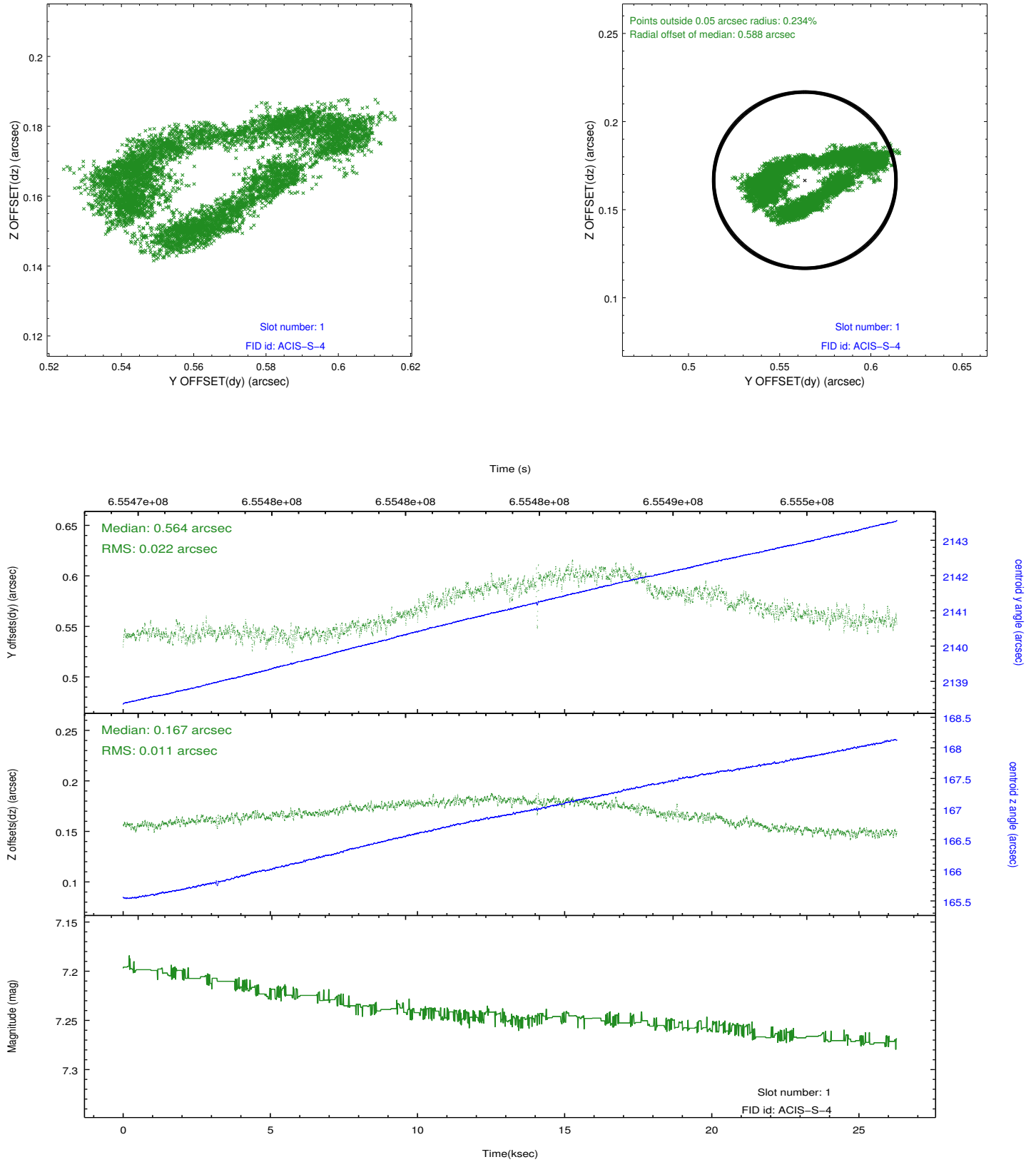


2.5 FID Slots

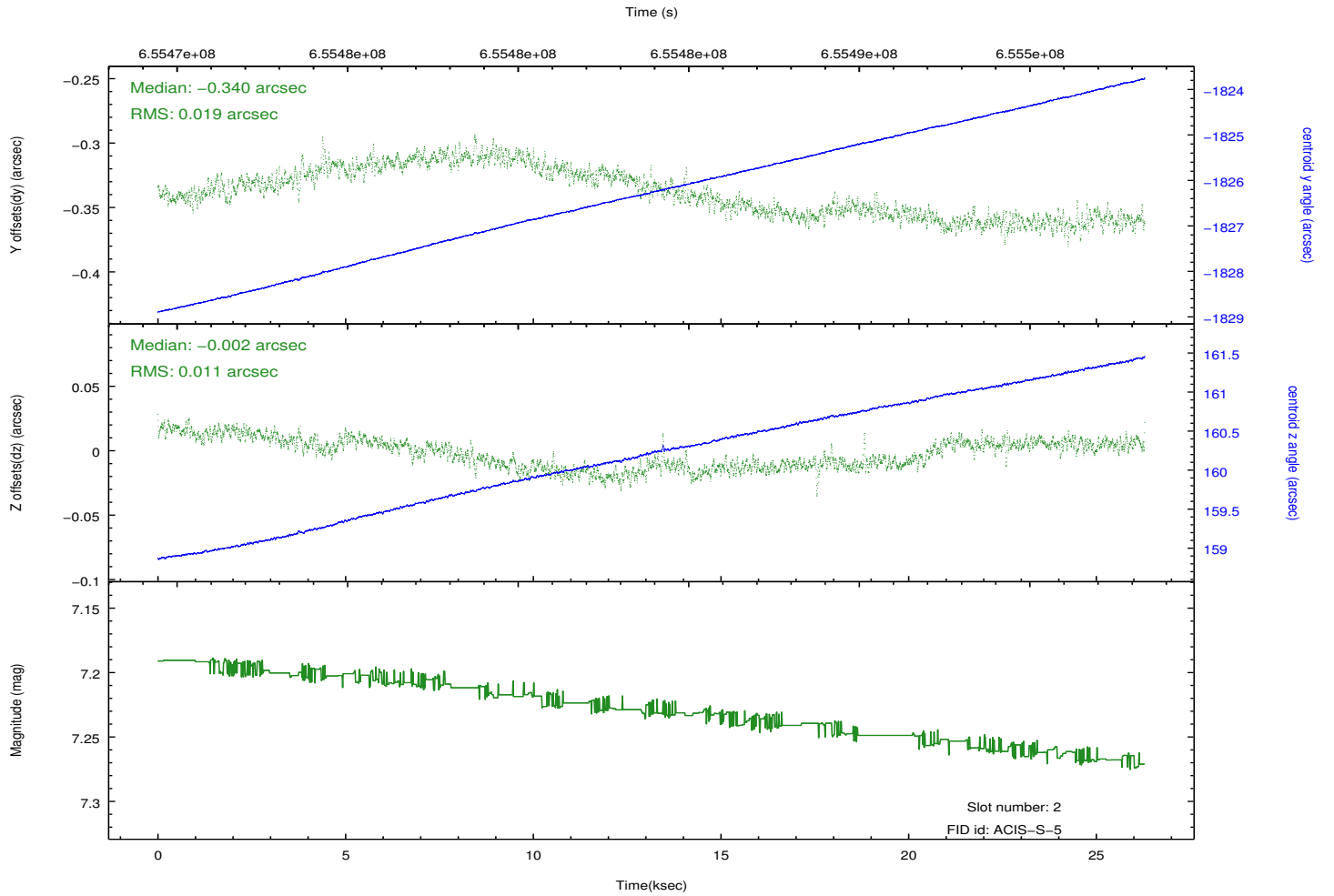
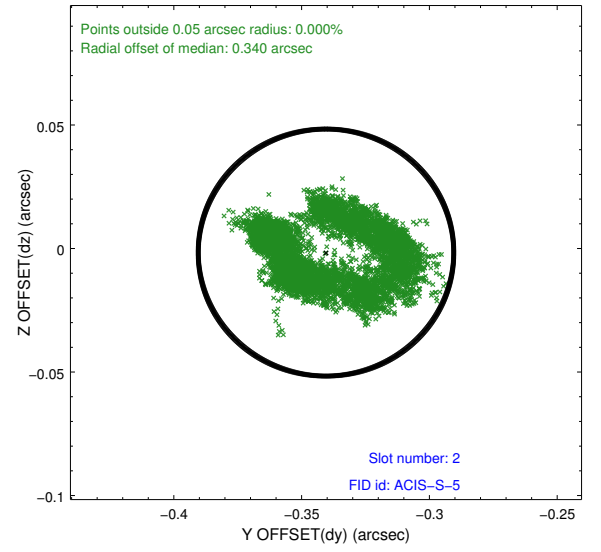
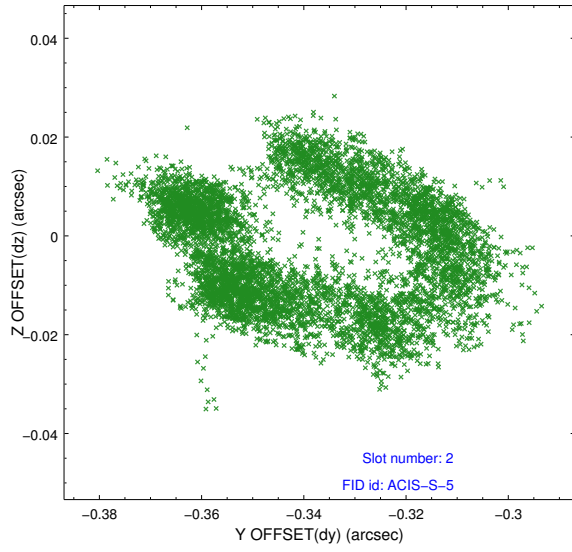
2.5.1 Slot 0



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)	2018.10.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.244301673055

A.2 Comments