

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21441 - L2 Version 1
Chandra X-Ray Center

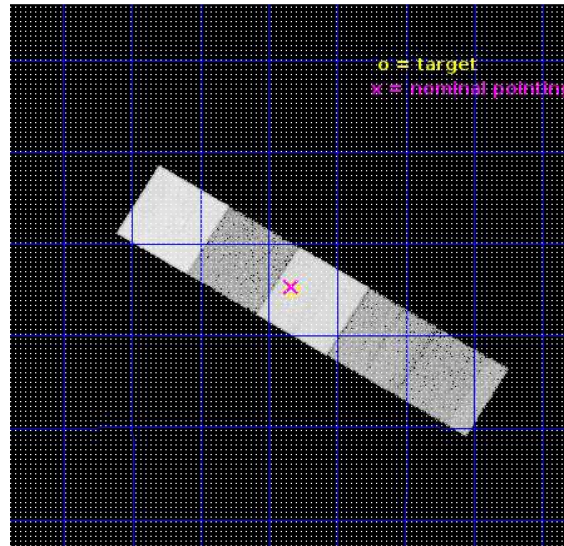
L2 Processing Date : Mar 25 2019

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1 Front

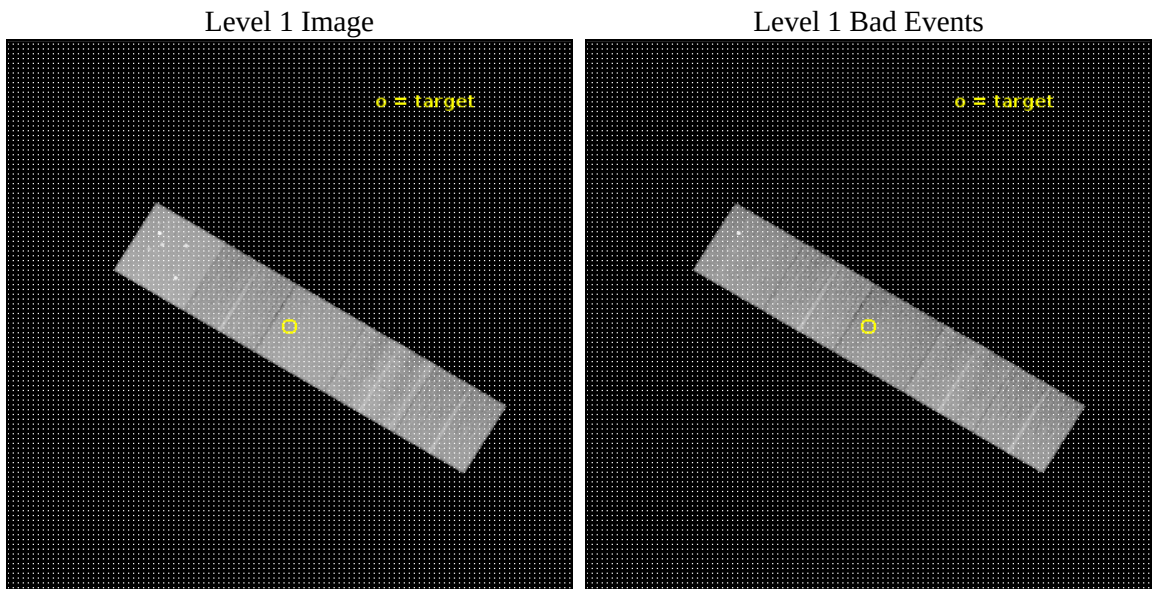
seq_num	703738	Sequence number
obs_id	21441	Observation id
title	Chandra Observations of Five New Quads and a Quint	Proposal title
observer	David Pooley	Principal investigator
object	2M 1310-1714	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	197.583333	Observer's specified target RA [deg]
dec_targ	-17.249389	Observer's specified target Dec [deg]
ra_nom	197.58375310277	Nominal RA [deg]
dec_nom	-17.244426323783	Nominal Dec [deg]
roll_nom	31.156751324748	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21049.000162005	Sum of GTIs [s]
livetime	20773.97947884	Livetime [s]
ontime5	21049.000162005	Sum of GTIs [s]
ontime6	21049.000162005	Sum of GTIs [s]
ontime7	21049.000162005	Sum of GTIs [s]
ontime8	21049.000162005	Sum of GTIs [s]
ontime9	21049.000162005	Sum of GTIs [s]
l2events	266941	Number of level 2 events



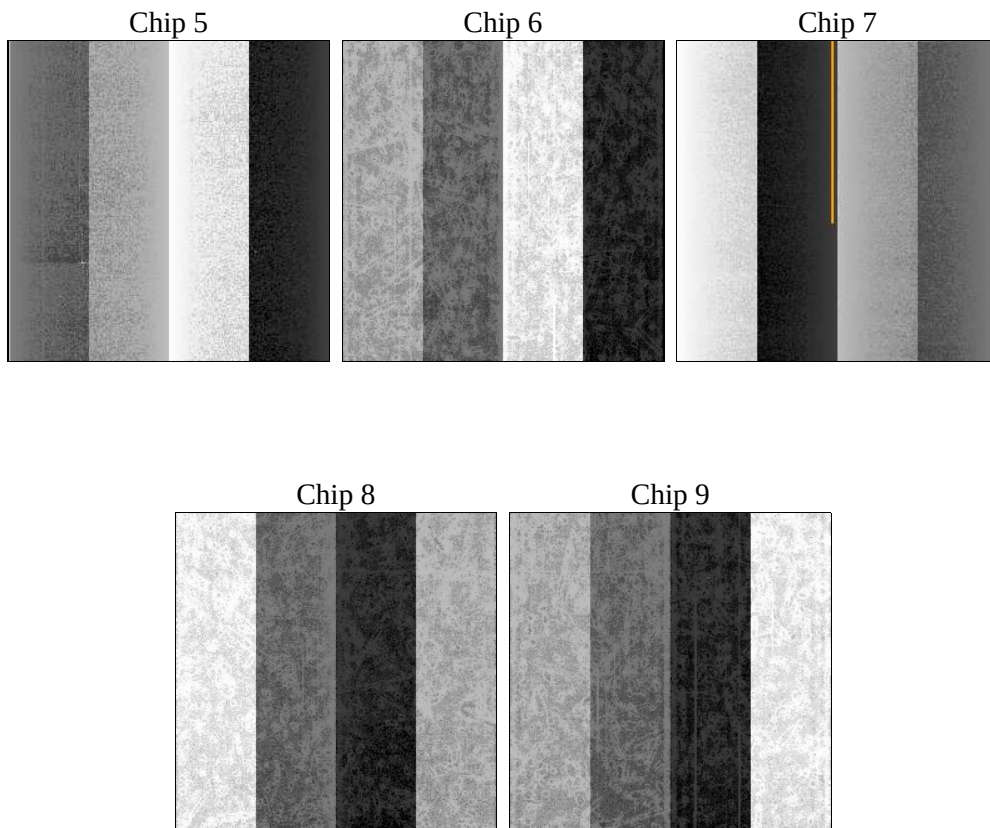
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	21049.000162005	Sum of GTIs [s]
caldsver	4.8.2	 	ontime5	21049.000162005	Sum of GTIs [s]
date	2019-03-25T05:31:57	Date and time of file creation	ontime6	21049.000162005	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	21049.000162005	Sum of GTIs [s]
			ontime8	21049.000162005	Sum of GTIs [s]
			ontime9	21049.000162005	Sum of GTIs [s]
			l1events	1054439	Number of level 1 events

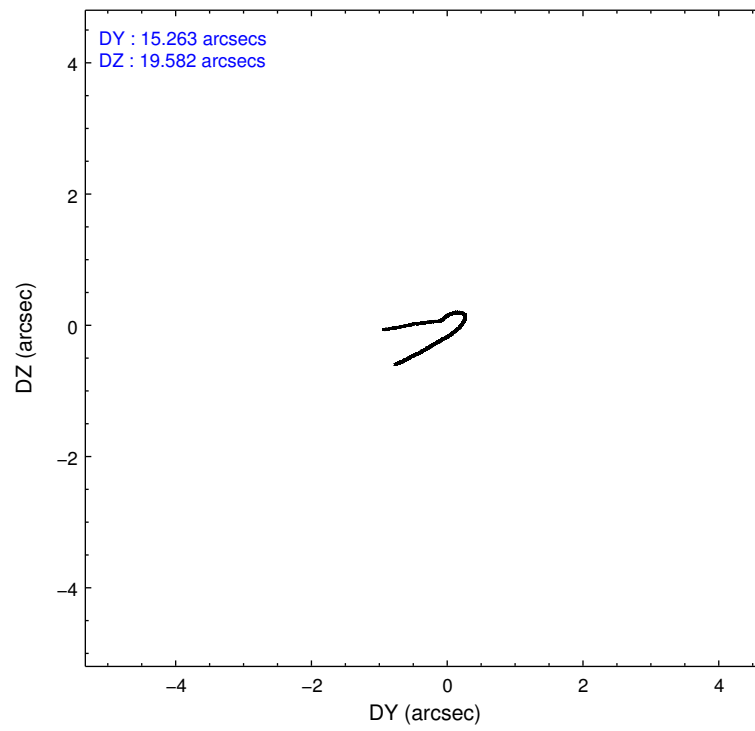
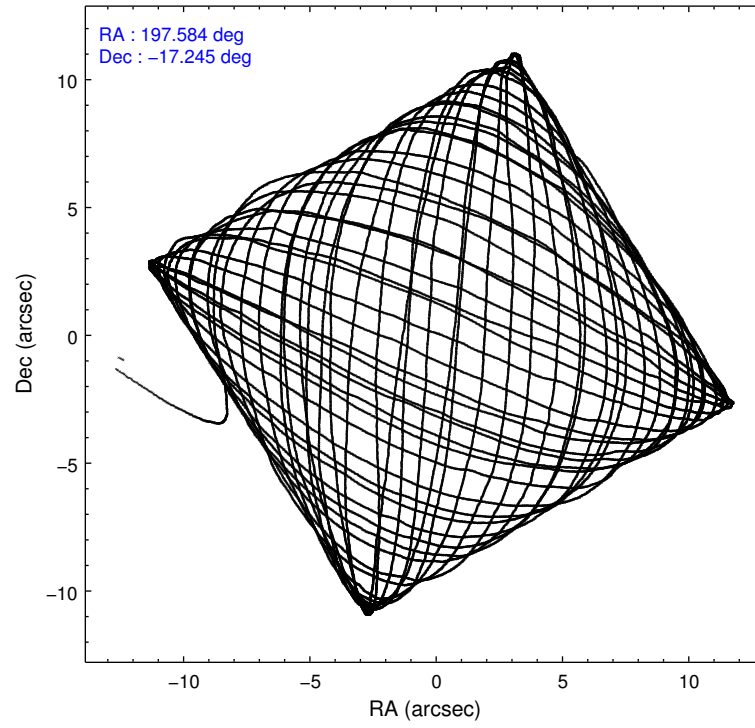
2.1.4 Events

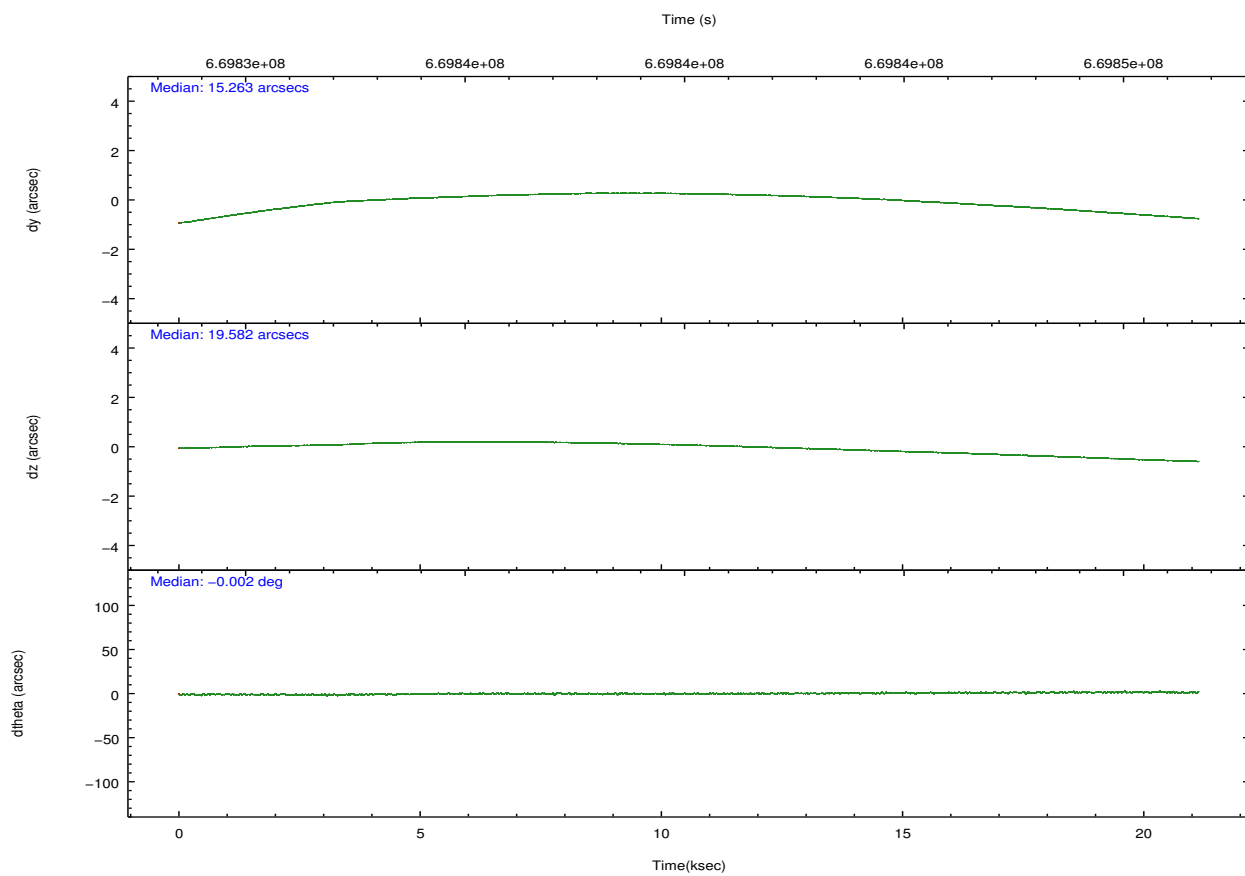
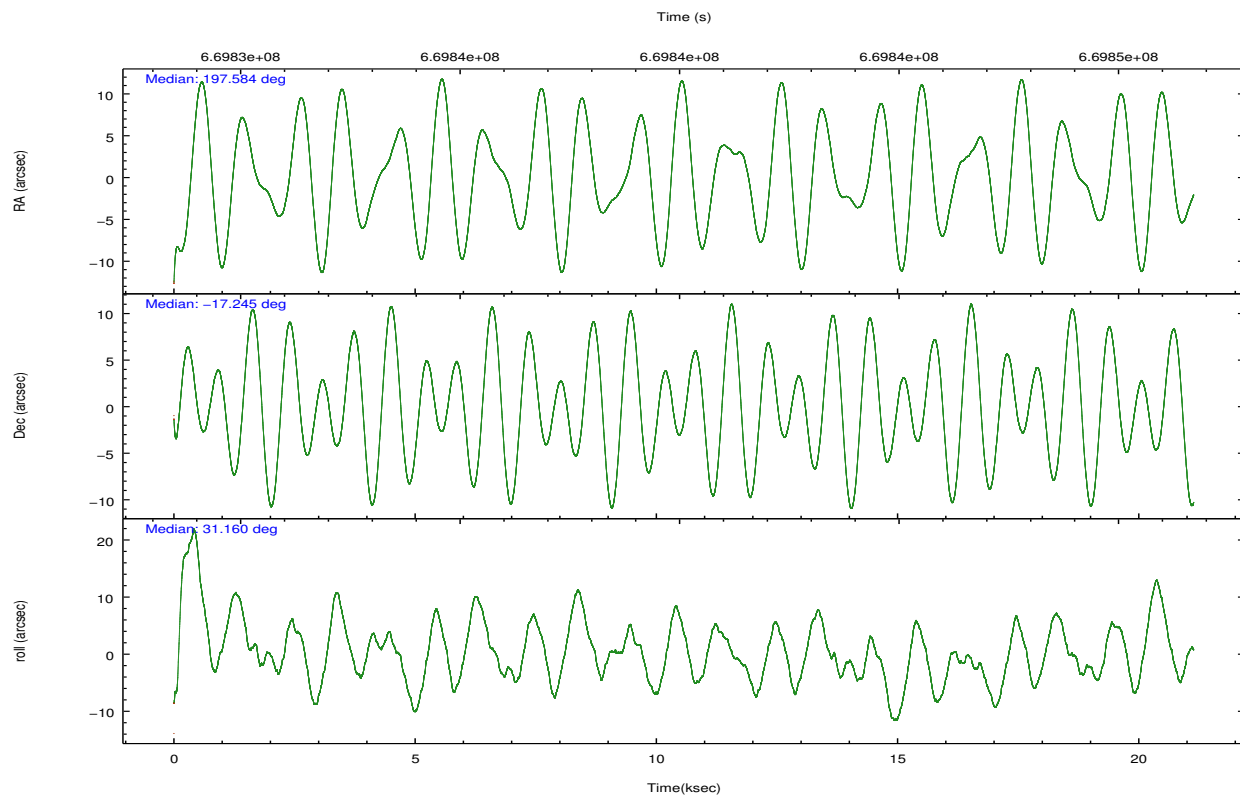
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	285411	168106	215372	218968	166582	grade 0 events	21462	6396	7797	17023	7199
rejected events	144207	149018	122061	159691	146273		7%	3%	3%	7%	4%
rejected %	50%	88%	56%	72%	87%	grade 1 events	587	89	361	179	103
							0%	0%	0%	0%	0%
						grade 2 events	42256	4430	20115	14255	4585
							14%	2%	9%	6%	2%
						grade 3 events	4015	1785	7355	6469	2050
							1%	1%	3%	2%	1%
						grade 4 events	3601	1844	7281	6015	1922
							1%	1%	3%	2%	1%
						grade 5 events	18574	7895	21090	11833	8888
							6%	4%	9%	5%	5%
						grade 6 events	69920	4641	50795	15527	4559
							24%	2%	23%	7%	2%
						grade 7 events	124996	141026	100578	147667	137276
							43%	83%	46%	67%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-56789	ACIS-56789	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	197.570249	197.5837531027657	CCD I2 on	N	N
[deg] Pointing Dec	-17.268647	-17.24442632378335	CCD I3 on	N	N
[deg] Pointing Roll	30.996119	31.156751324748	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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	O3	Y
[s] Observation start time (MET)	669829672.184000	669828512.72632	CCD S5 on	O1	Y
Observation start date	2019-03-24T15:46:43	2019-03-24T15:28:32	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	669850672.184000	669851711.5527	On-chip summing requested	N	N
Observation end date	2019-03-24T21:36:43	2019-03-24T21:55:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



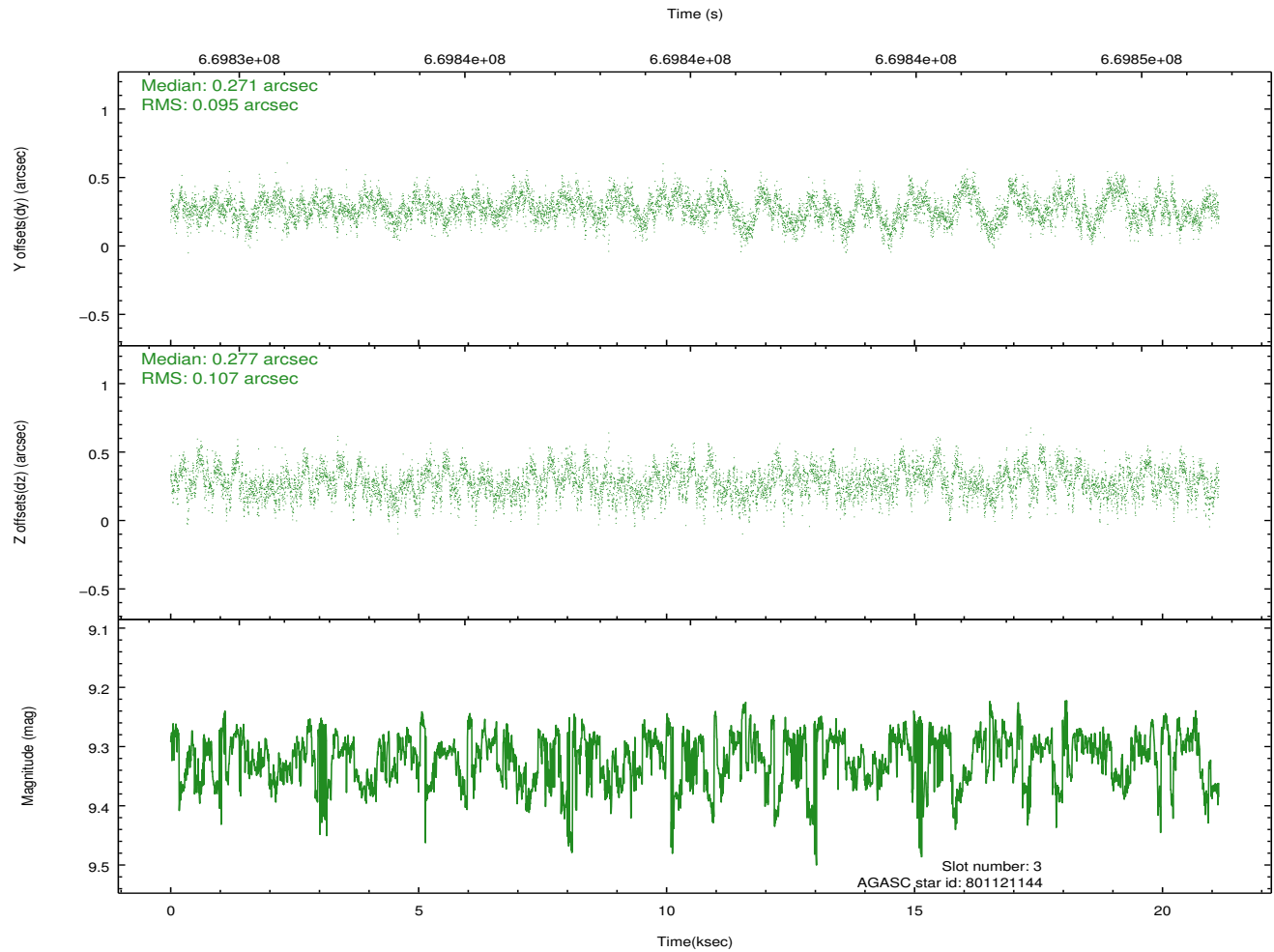
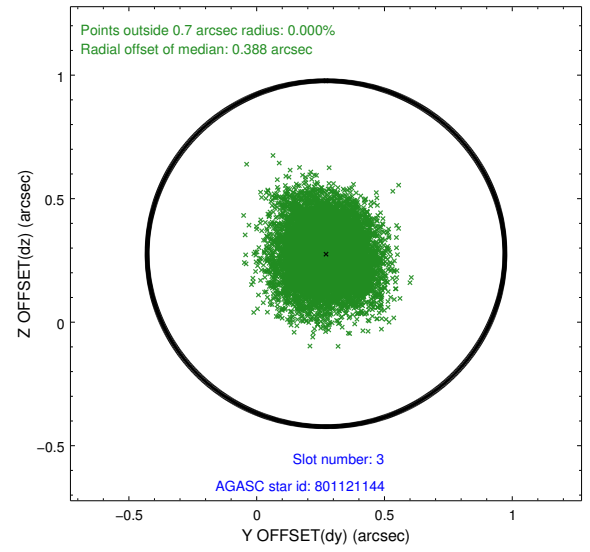
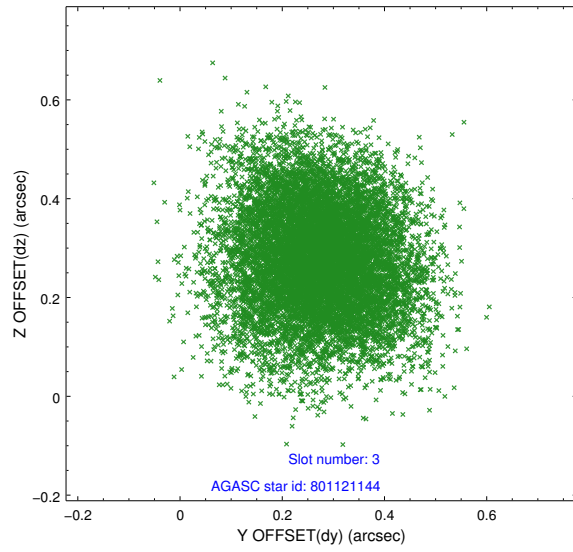


Slot Statistics

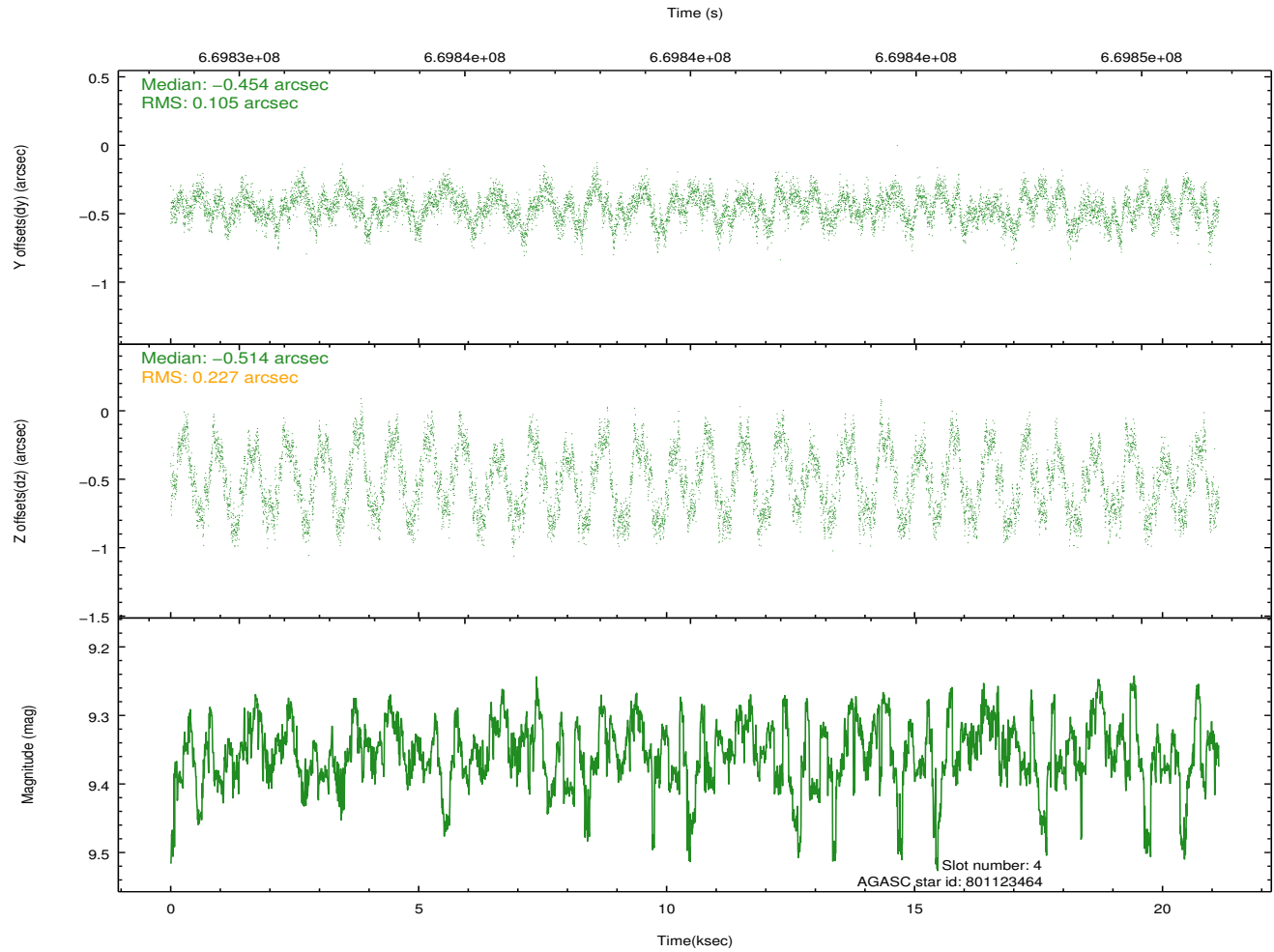
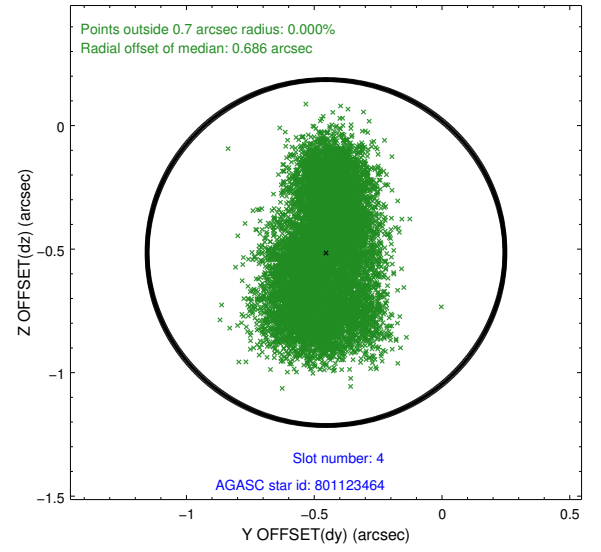
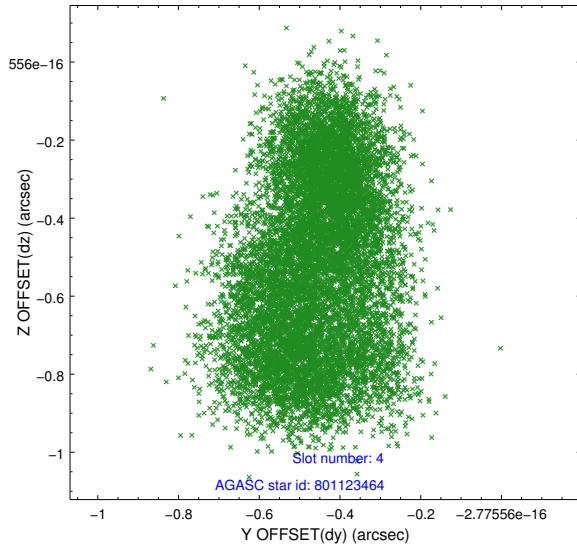
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.97	5155	1.000	-0.483	-0.321	0.016	0.025	0.000000	0.000000	-768.68	-1741
1	FID		ACIS-S-4	7.09	5155	1.000	0.505	0.295	0.017	0.024	0.000000	0.000000	2145.57	167
2	FID		ACIS-S-6	7.23	5156	1.000	-0.048	0.030	0.009	0.016	0.000000	0.000000	394.04	804
3	GUIDE	used	801121144	9.32	10298	1.000	0.271	0.277	0.155	0.246	197.122670	-17.440078	-1636.00	261
4	GUIDE	used	801123464	9.36	10293	1.000	-0.454	-0.514	0.280	0.404	197.284020	-16.751074	112.87	2103
5	GUIDE	used	801248200	9.41	10290	1.000	0.010	-0.157	0.204	0.326	197.967590	-17.159017	1374.02	-366
6	GUIDE	used	801252160	7.41	10307	1.000	-0.171	-0.313	0.119	0.189	197.772211	-17.089855	926.89	192
7	GUIDE	used	801637208	9.47	10296	1.000	0.345	0.710	0.239	0.347	197.655605	-17.897936	-915.30	-2091

2.4 Star Slots

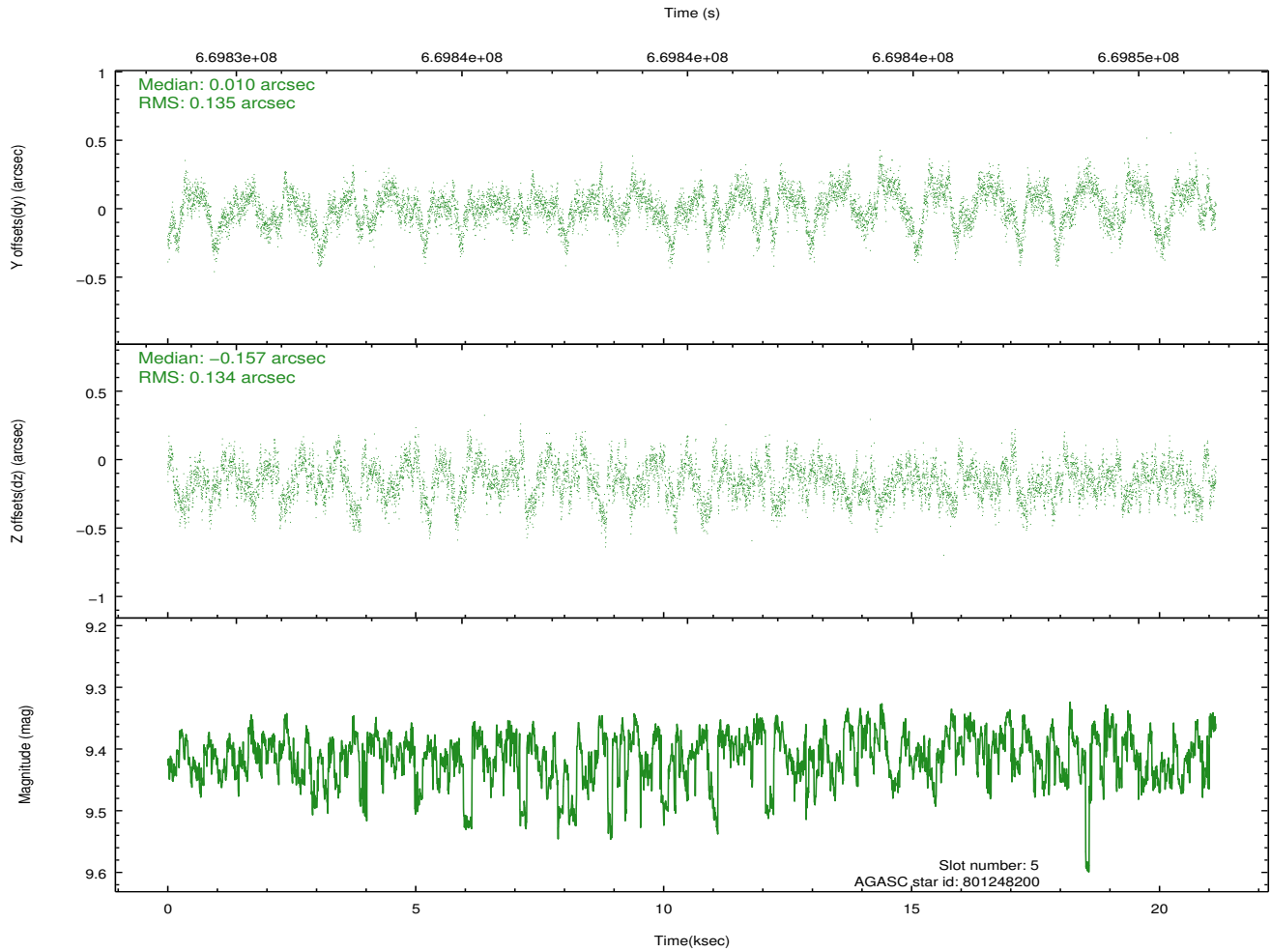
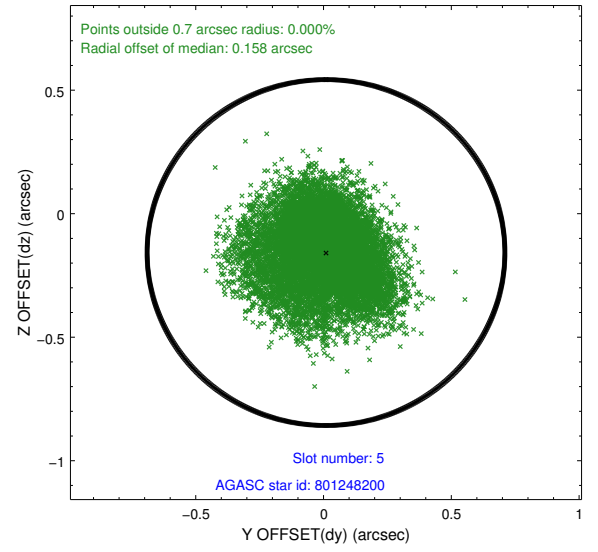
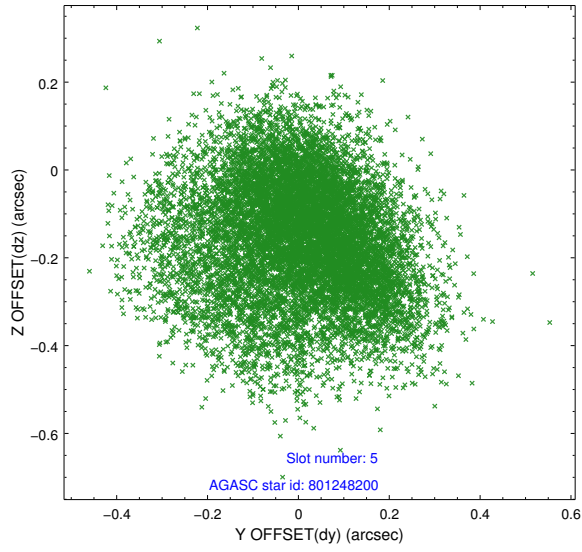
2.4.1 Slot 3



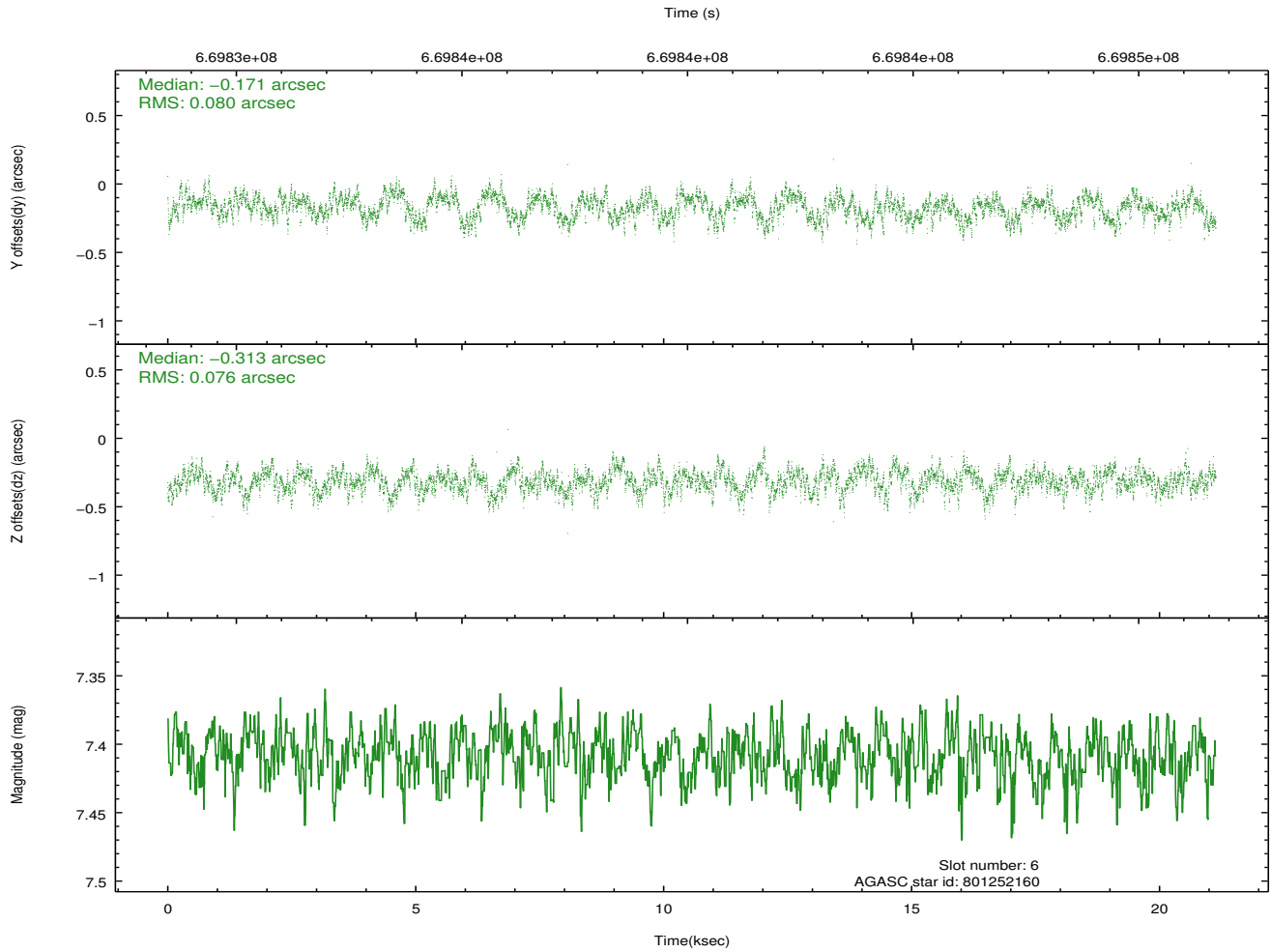
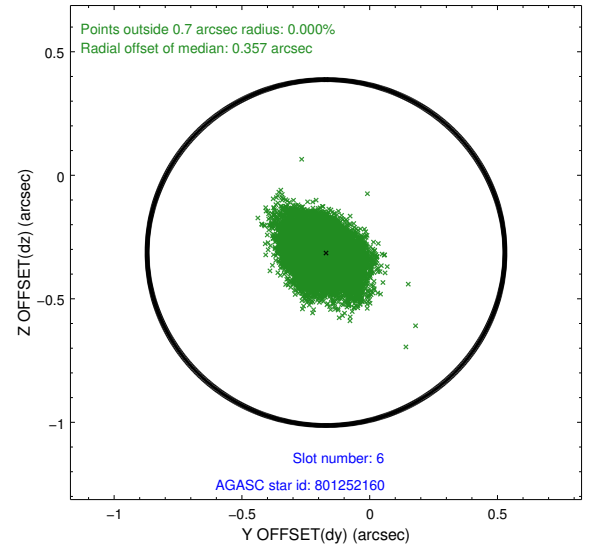
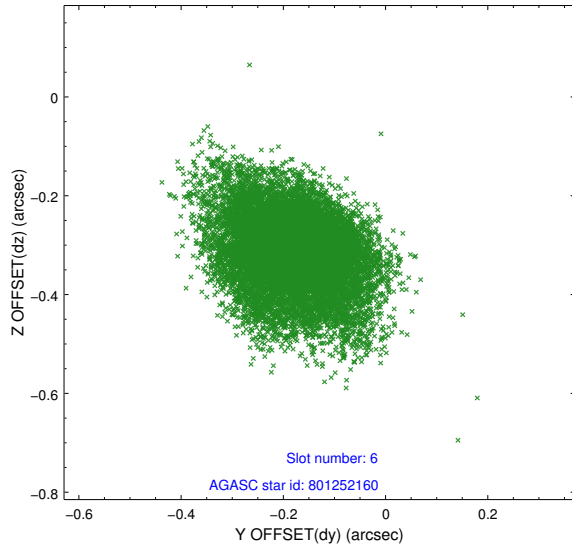
2.4.2 Slot 4



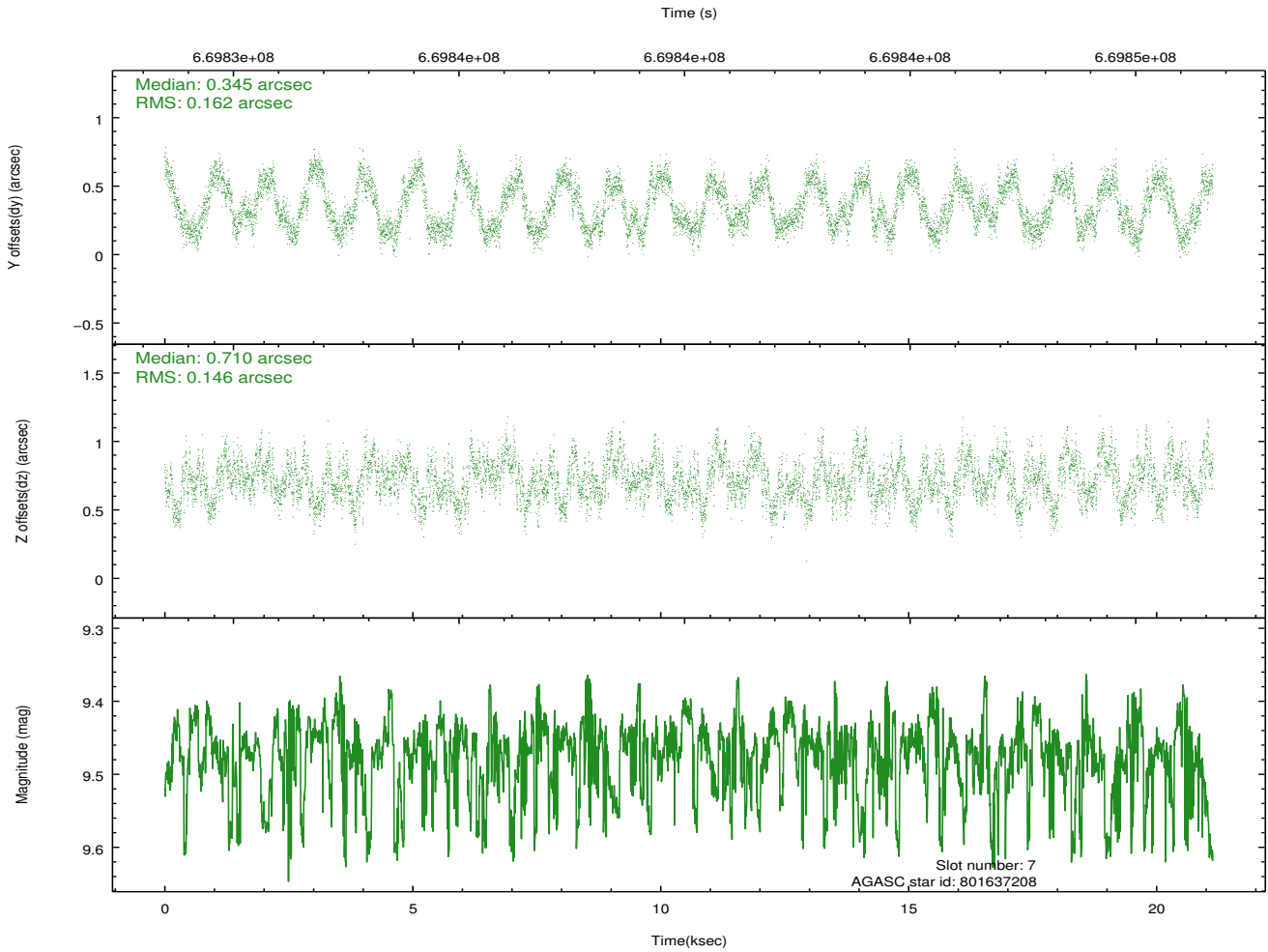
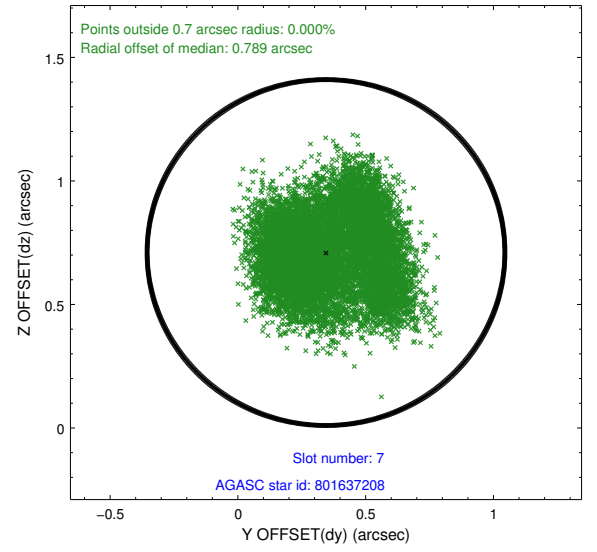
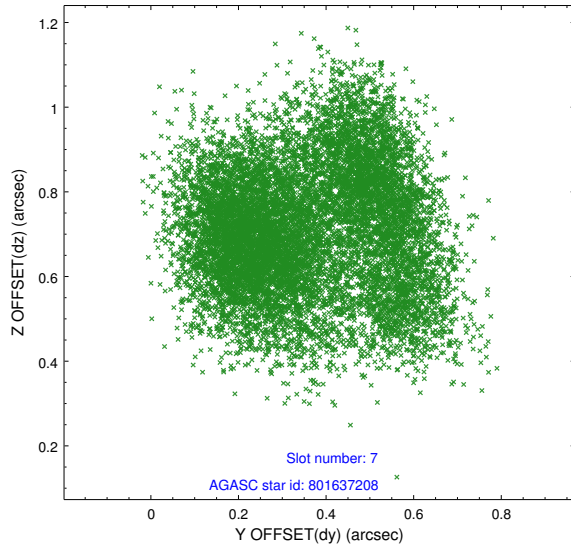
2.4.3 Slot 5



2.4.4 Slot 6

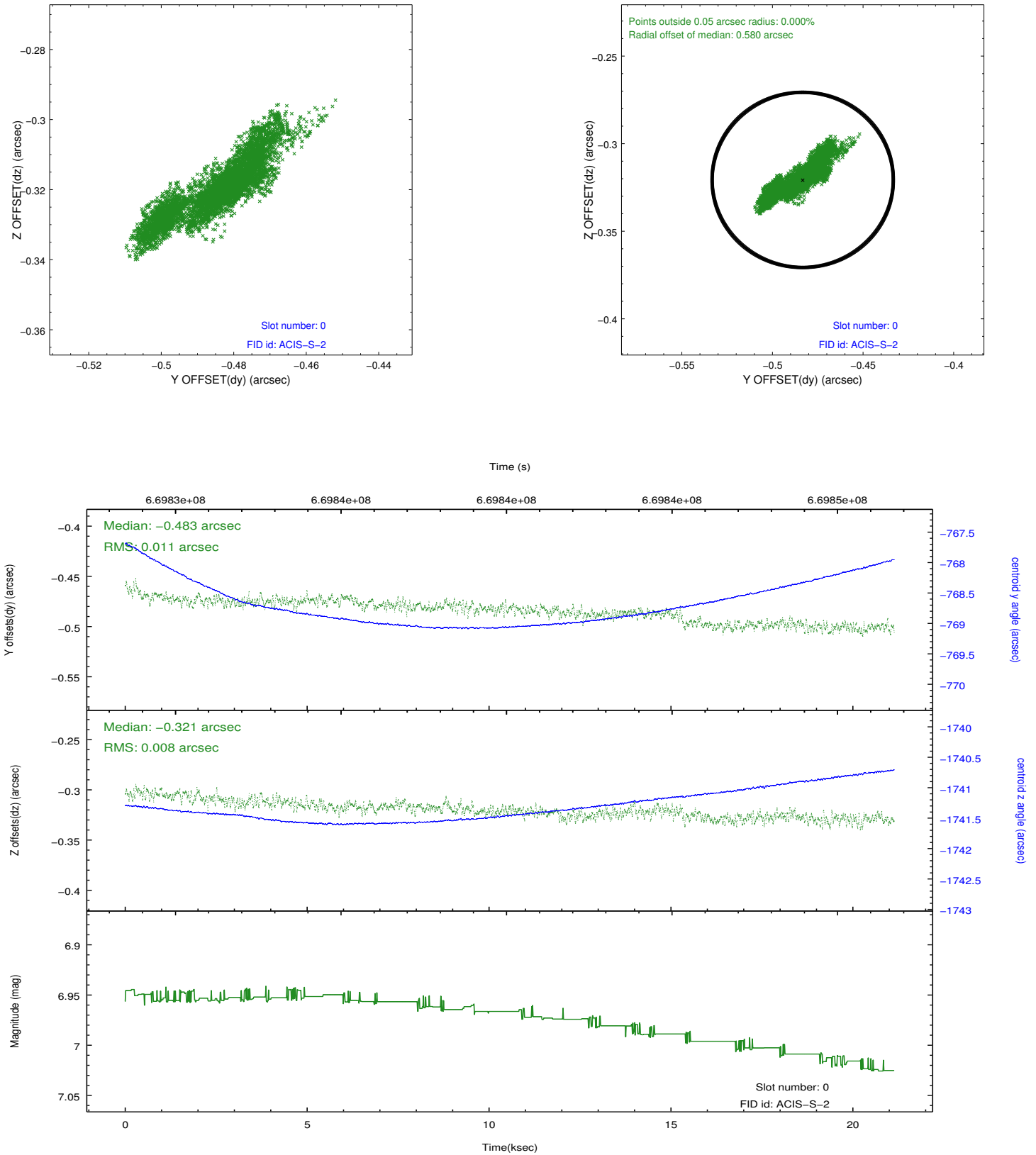


2.4.5 Slot 7

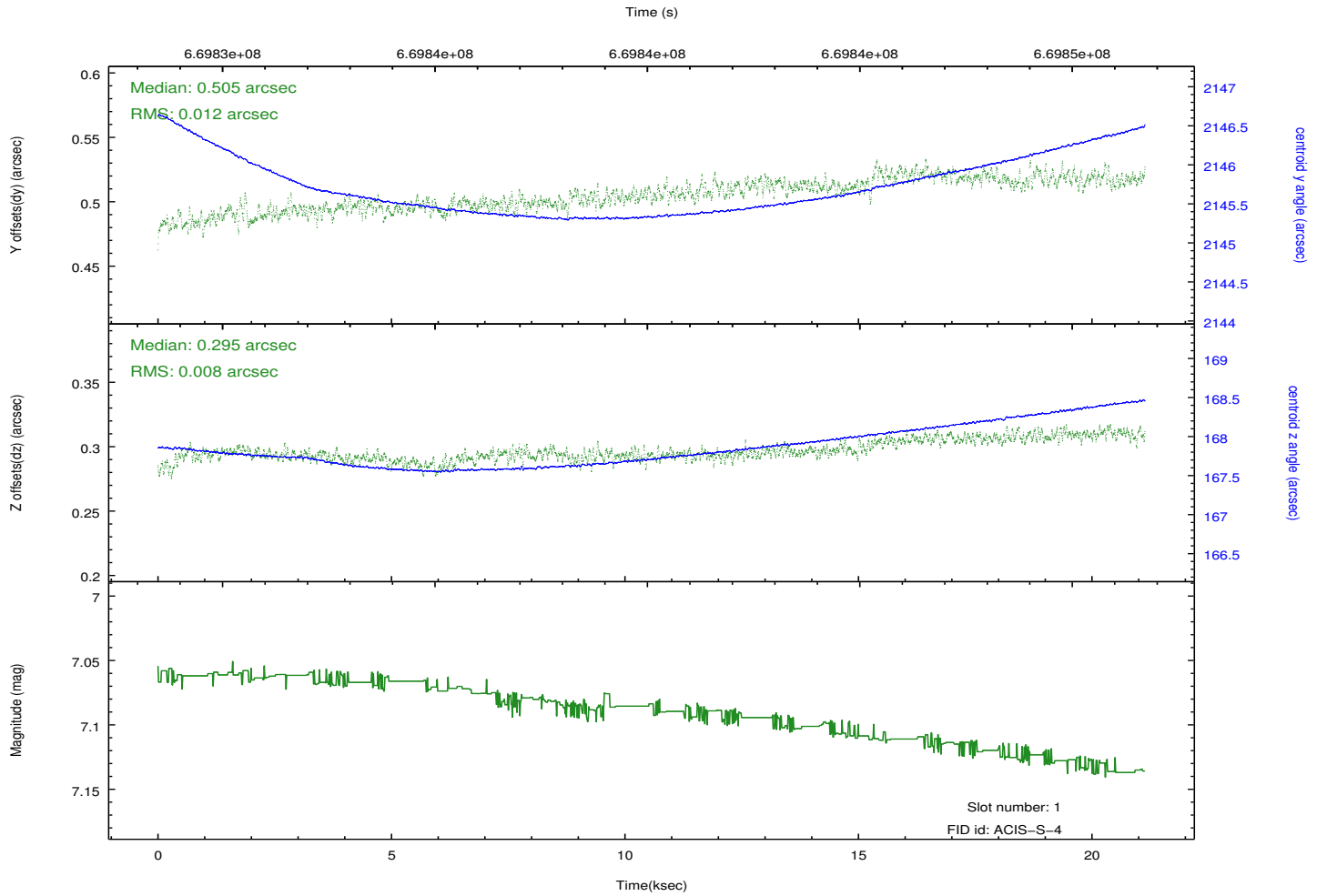
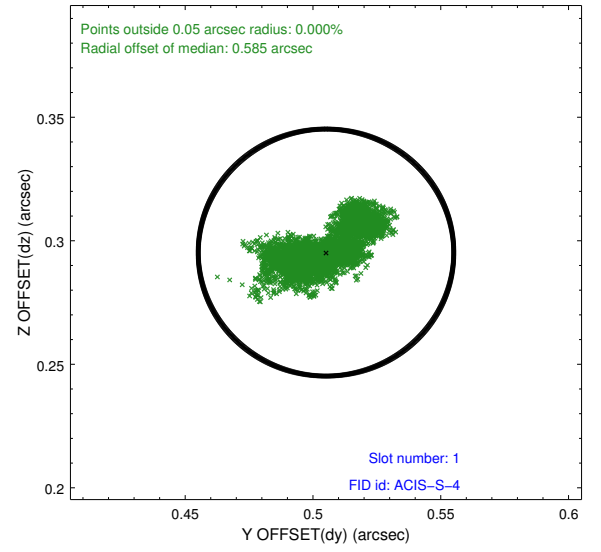
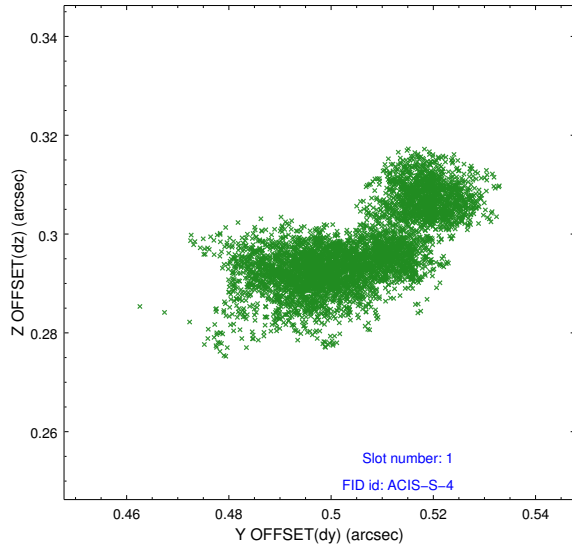


2.5 FID Slots

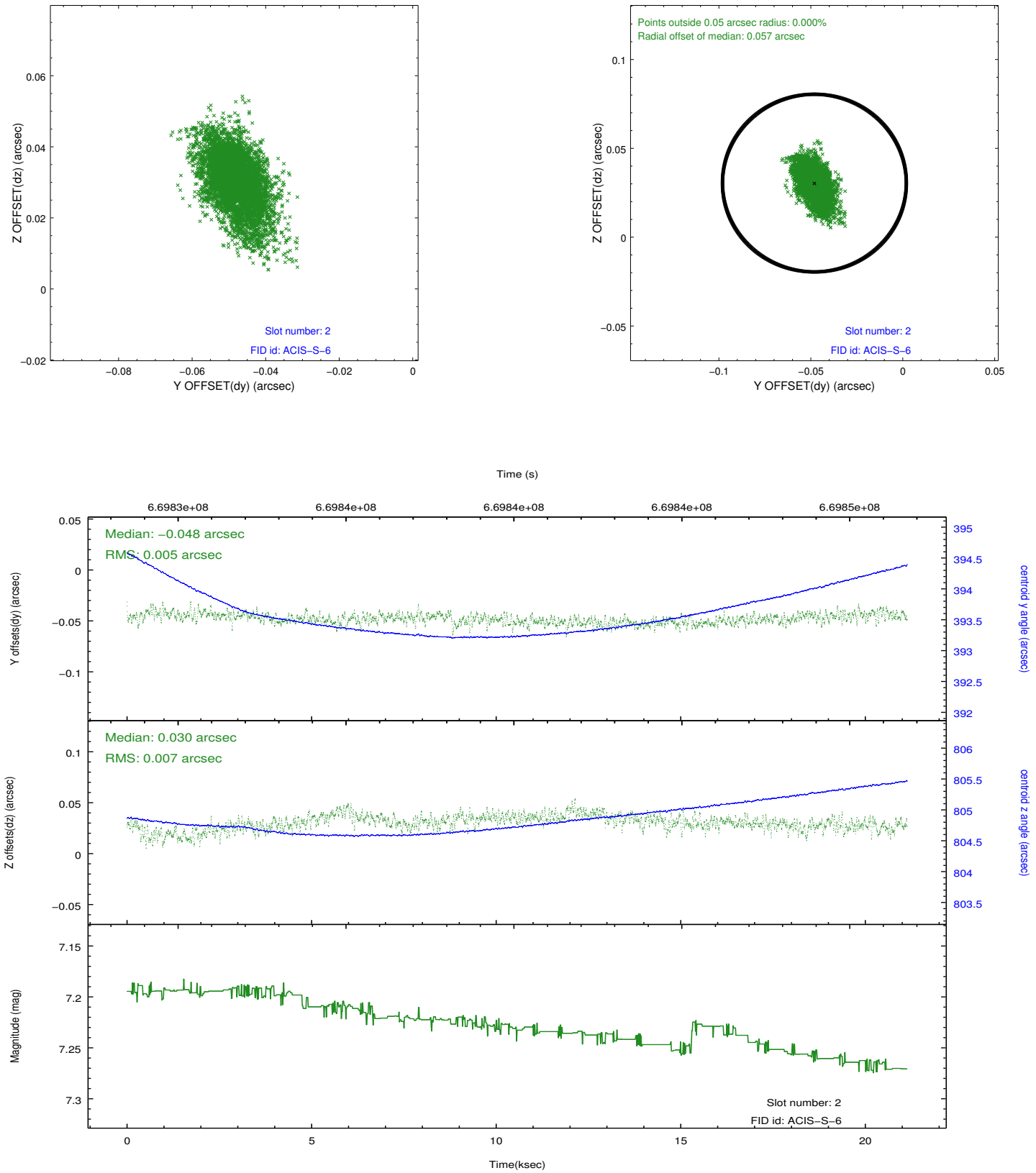
2.5.1 Slot 0



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)	2019.03.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.049000162005

A.2 Comments