

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21300 - L2 Version 1
Chandra X-Ray Center

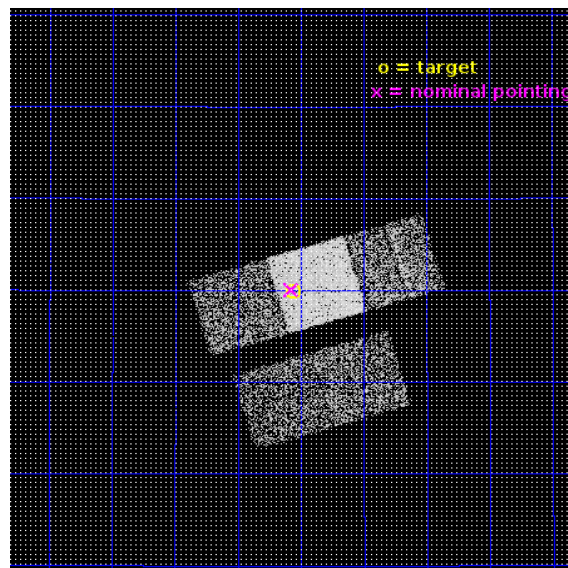
L2 Processing Date : Jan 9 2019

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1 Front

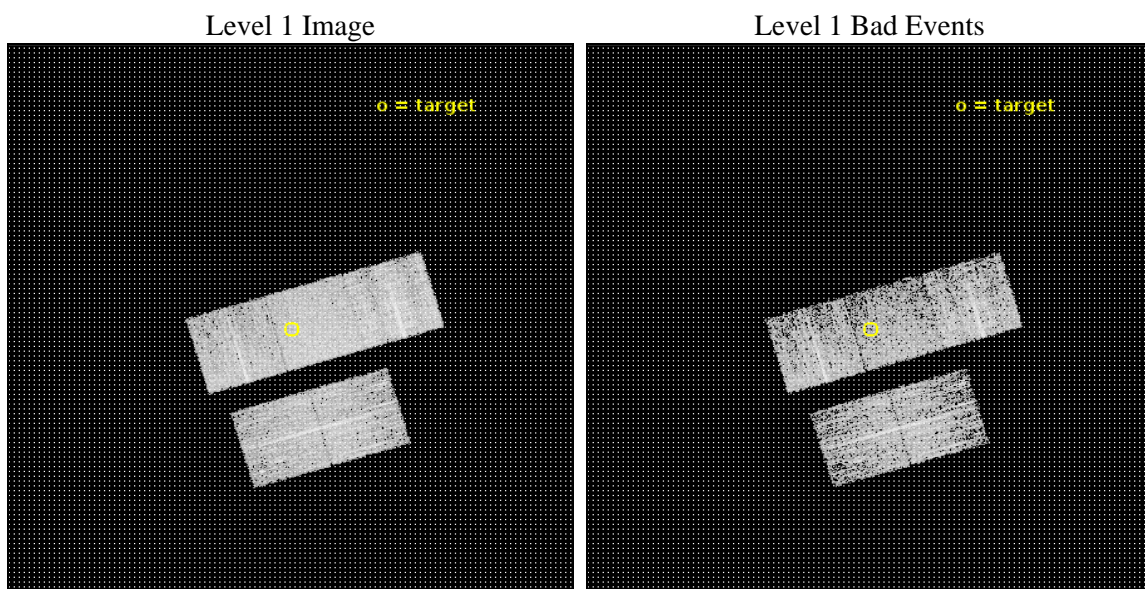
seq_num	503073	Sequence number
obs_id	21300	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J2018+2839	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	304.515833	Observer's specified target RA [deg]
dec_targ	28.665056	Observer's specified target Dec [deg]
ra_nom	304.51890428992	Nominal RA [deg]
dec_nom	28.667789844706	Nominal Dec [deg]
roll_nom	343.31575474665	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3555.4274296761	Sum of GTIs [s]
livetime	3508.9731528397	Livetime [s]
ontime2	3555.2632696629	Sum of GTIs [s]
ontime3	3555.3453496695	Sum of GTIs [s]
ontime6	3555.3863897324	Sum of GTIs [s]
ontime7	3555.4274296761	Sum of GTIs [s]
ontime8	3552.1633094549	Sum of GTIs [s]
l2events	24529	Number of level 2 events



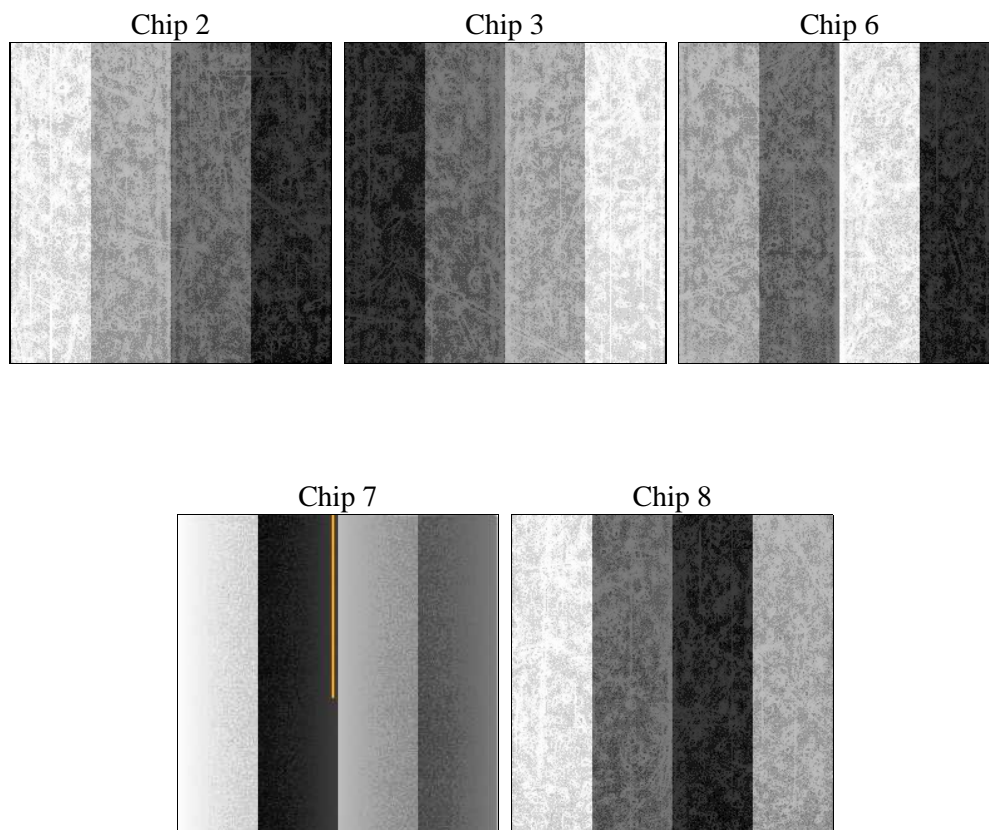
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	3555.4274296761	Sum of GTIs [s]
caldsver	4.8.2	 	ontime2	3555.2632696629	Sum of GTIs [s]
date	2019-01-09T17:22:47	Date and time of file creation	ontime3	3555.3453496695	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3555.3863897324	Sum of GTIs [s]
			ontime7	3555.4274296761	Sum of GTIs [s]
			ontime8	3552.1633094549	Sum of GTIs [s]
			l1events	149806	Number of level 1 events

2.1.4 Events

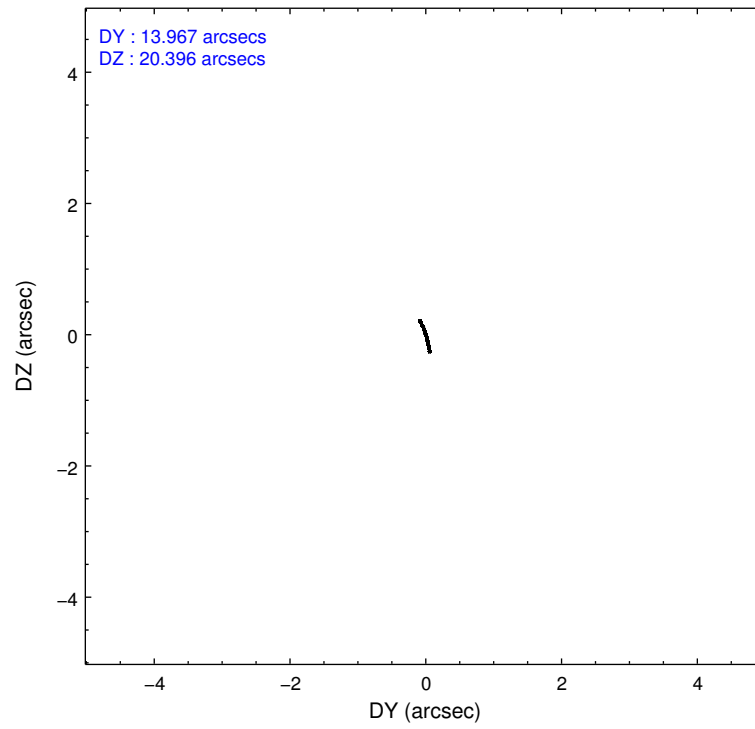
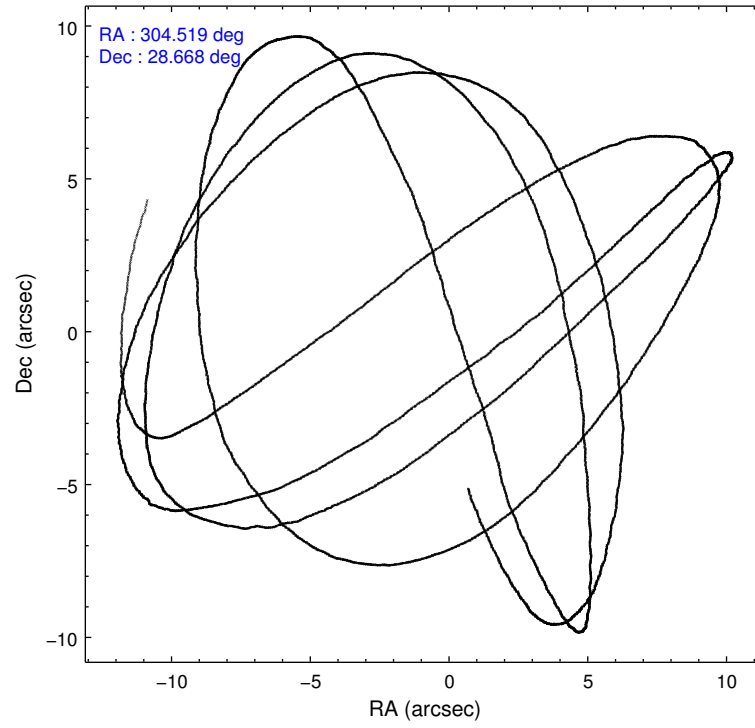
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	26207	27610	27060	33761	35168
rejected events	23378	24863	24062	19418	26379
rejected %	89%	90%	88%	57%	75%

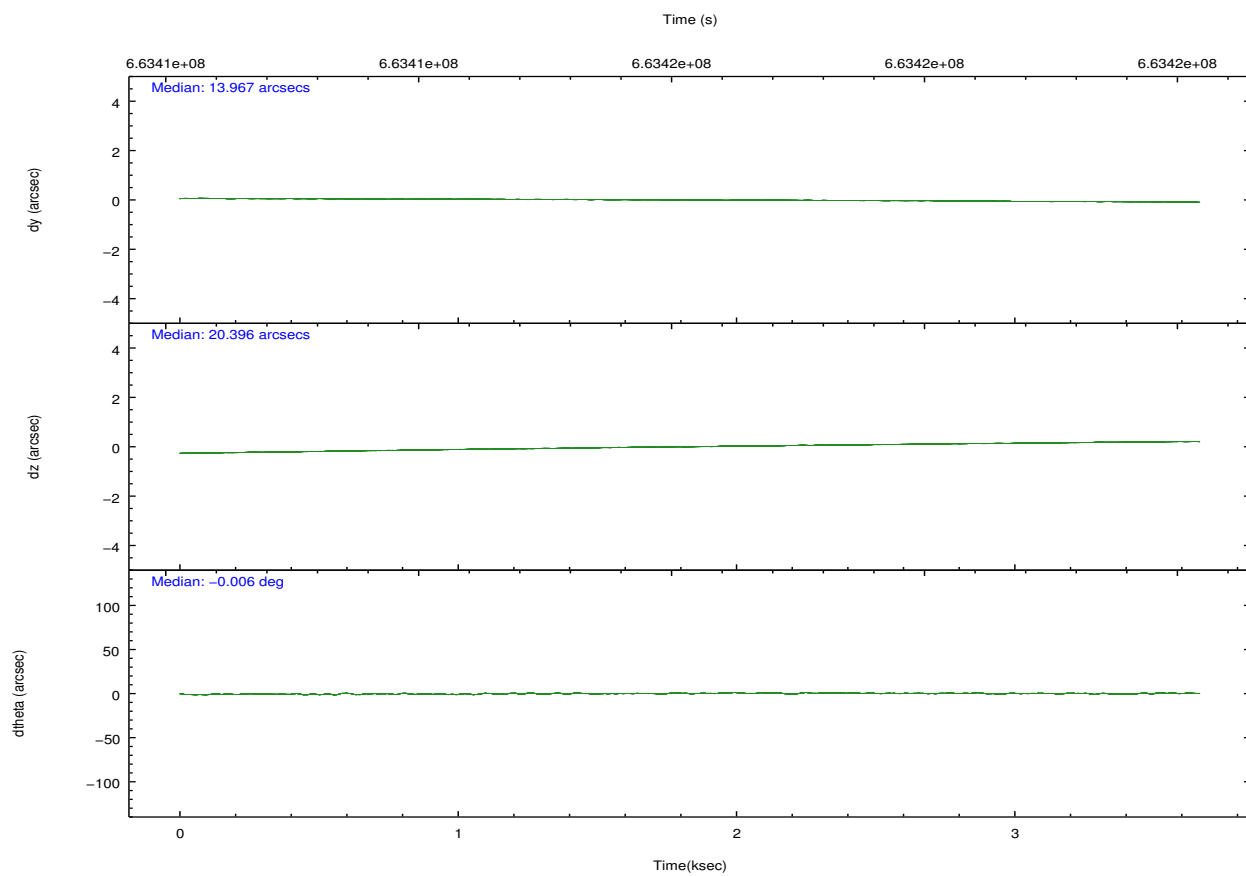
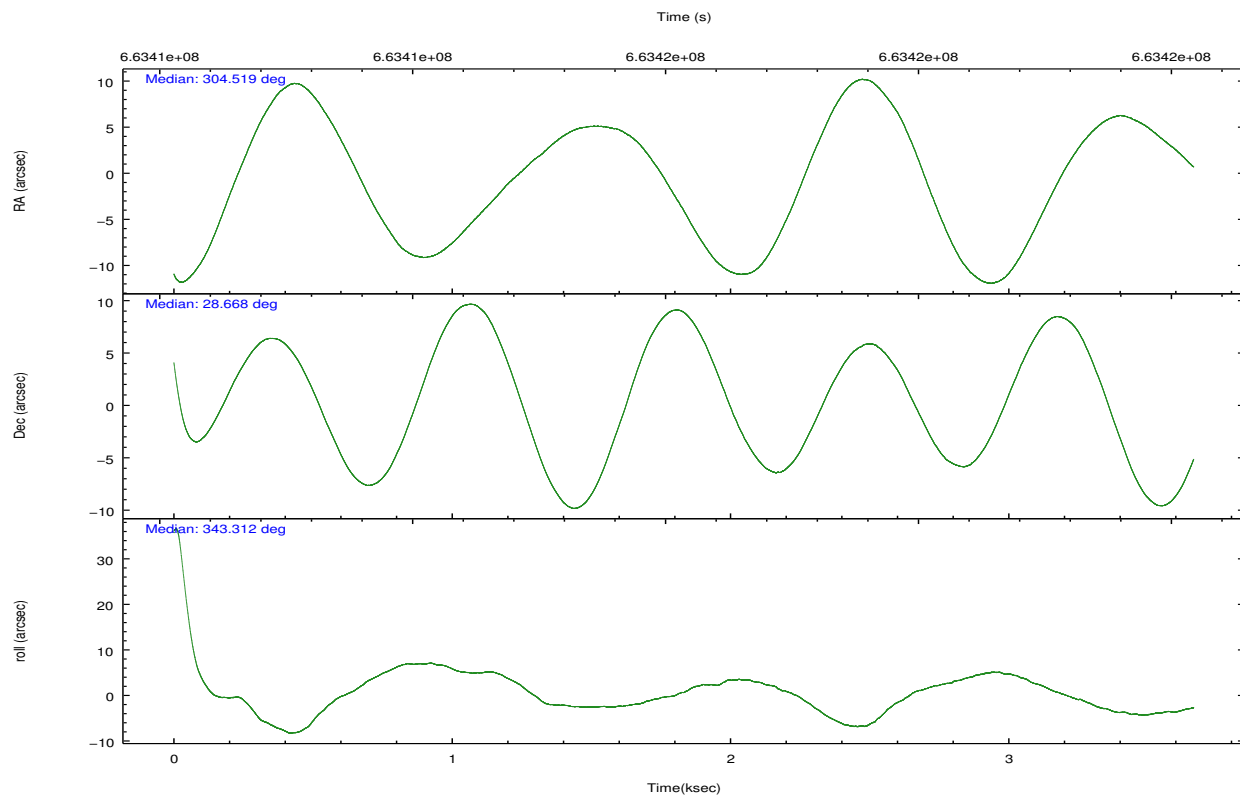
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1126	1023	973	1203	2573
	4%	3%	3%	3%	7%
grade 1 events	9	19	8	46	23
	0%	0%	0%	0%	0%
grade 2 events	630	583	711	3013	2069
	2%	2%	2%	8%	5%
grade 3 events	275	278	285	1119	972
	1%	1%	1%	3%	2%
grade 4 events	260	272	266	1135	955
	0%	0%	0%	3%	2%
grade 5 events	956	1175	1173	3218	1773
	3%	4%	4%	9%	5%
grade 6 events	541	595	764	7883	2223
	2%	2%	2%	23%	6%
grade 7 events	22410	23665	22880	16144	24580
	85%	85%	84%	47%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	304.488471	304.5189042899224	CCD I2 on	O1	Y
[deg] Pointing Dec	28.661185	28.6677898447058	CCD I3 on	O2	Y
[deg] Pointing Roll	343.173613	343.3157547466505	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	Y	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	Y	Y
[s] Observation start time (MET)	663413398.184000	663412292.68038	CCD S5 on	N	N
Observation start date	2019-01-09T09:28:49	2019-01-09T09:11:32	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	663416898.184000	663417899.94322	On-chip summing requested	N	N
Observation end date	2019-01-09T10:27:09	2019-01-09T10:44:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



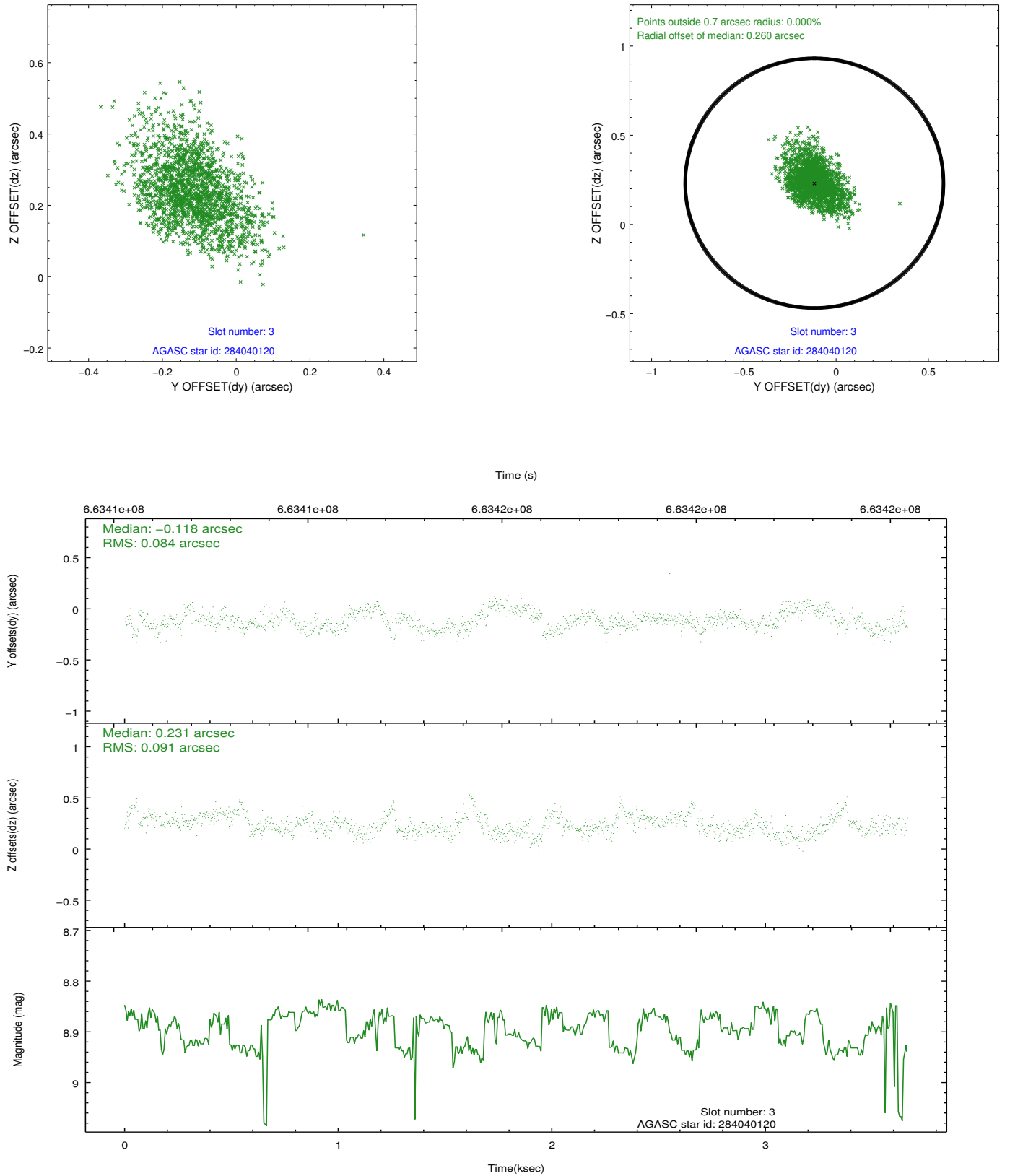


Slot Statistics

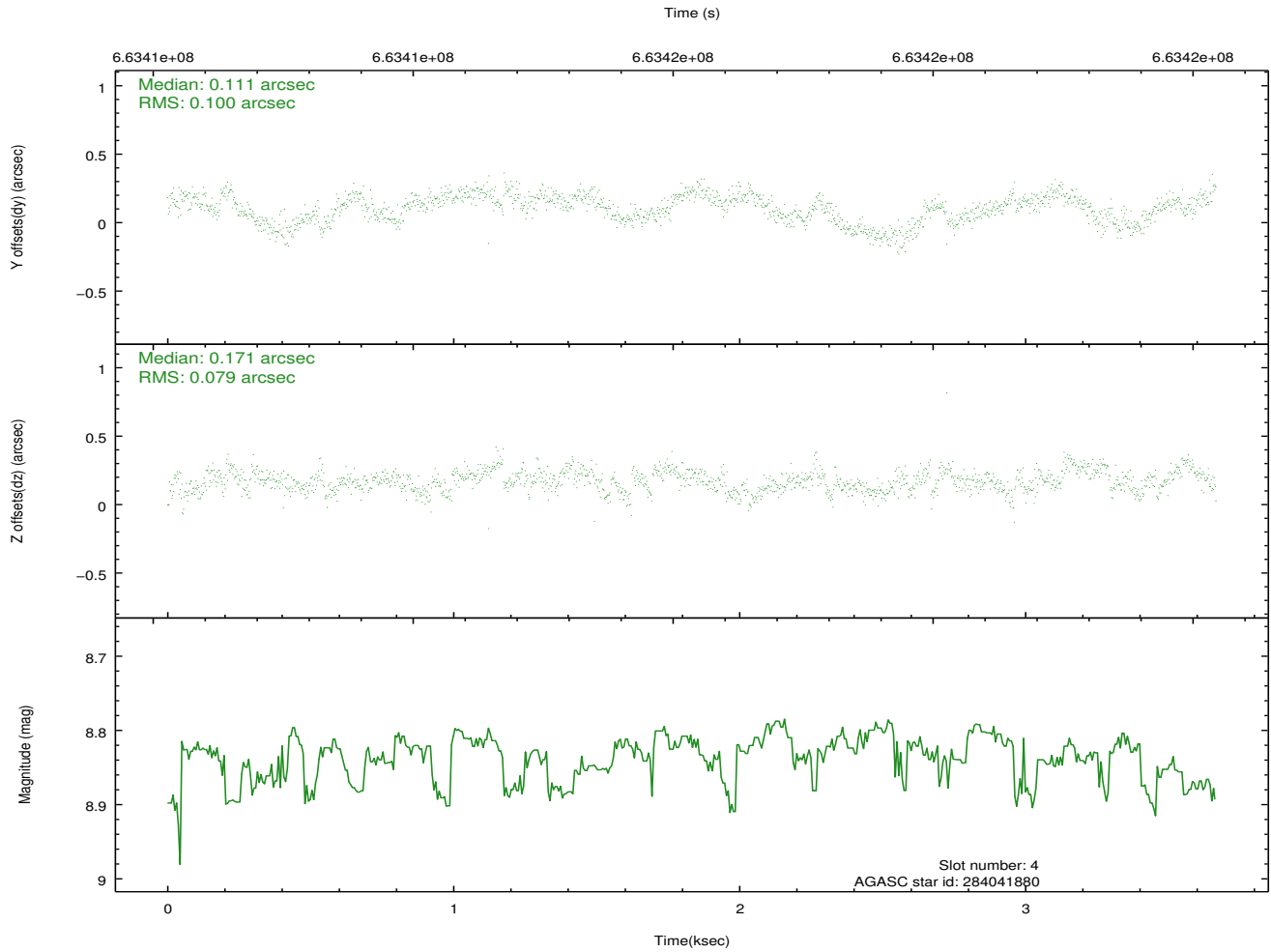
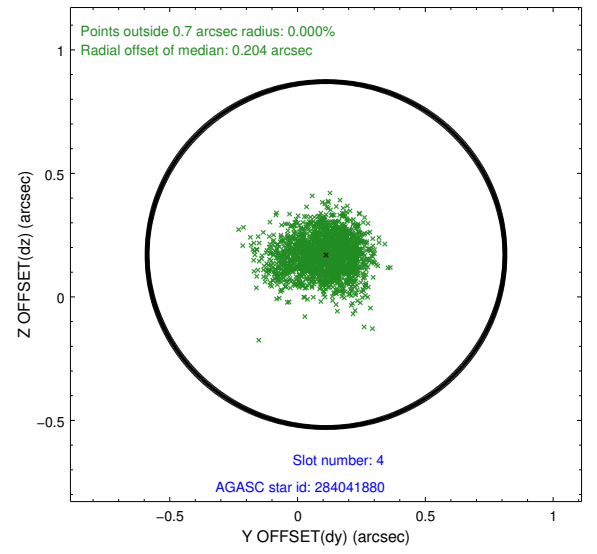
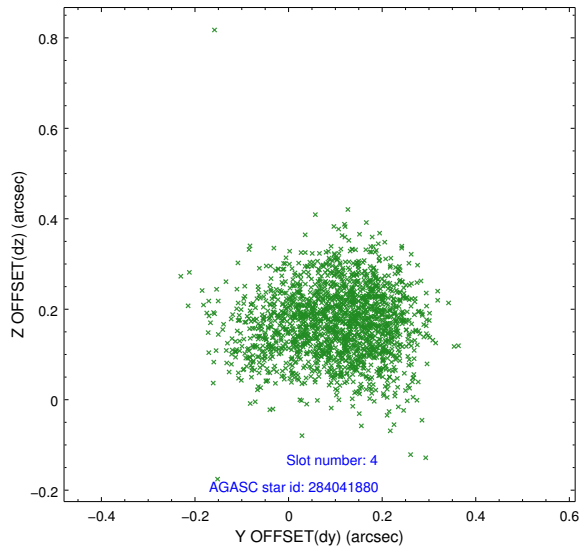
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.12	895	1.000	-0.316	-0.182	0.007	0.013	0.000000	0.000000	-767.14	-1742
1	FID		ACIS-S-4	7.25	894	1.000	0.770	0.201	0.010	0.018	0.000000	0.000000	2146.35	165
2	FID		ACIS-S-5	7.23	894	1.000	-0.485	-0.011	0.010	0.017	0.000000	0.000000	-1818.04	160
3	GUIDE	used	284040120	8.89	1789	1.000	-0.118	0.231	0.129	0.217	304.107614	29.132131	-1638.38	1278
4	GUIDE	used	284041880	8.83	1787	1.000	0.111	0.171	0.133	0.217	304.644494	28.393061	750.84	-779
5	GUIDE	used	283521664	9.17	1787	1.000	0.264	-0.075	0.200	0.330	305.088080	28.081364	2425.58	-1443
6	GUIDE	used	284041776	8.92	1788	1.000	-0.301	-0.141	0.179	0.251	305.134467	28.957965	1637.36	1615
7	GUIDE	used	284042096	9.31	1788	1.000	0.031	-0.199	0.228	0.340	305.192481	28.522744	2274.02	174

2.4 Star Slots

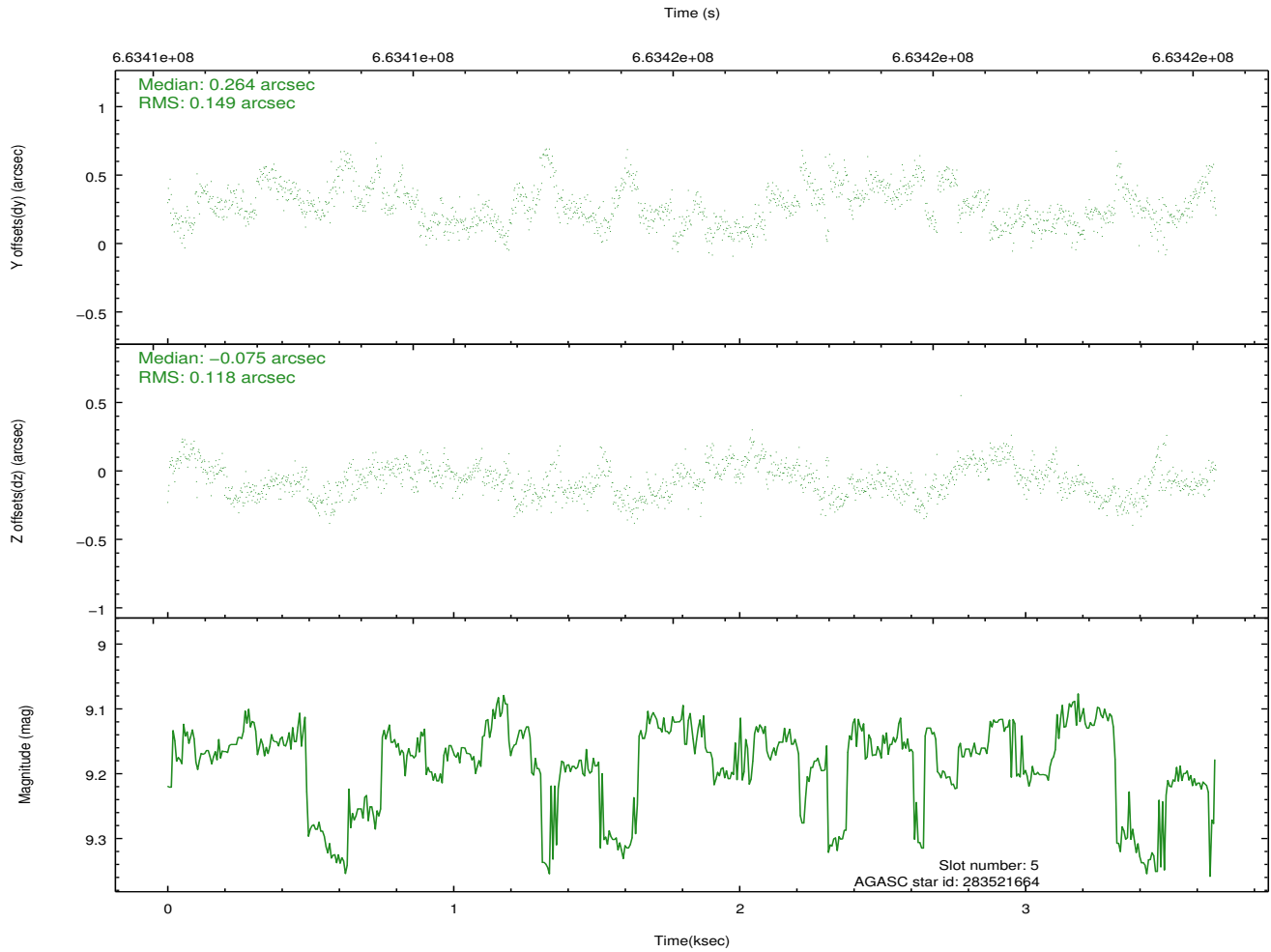
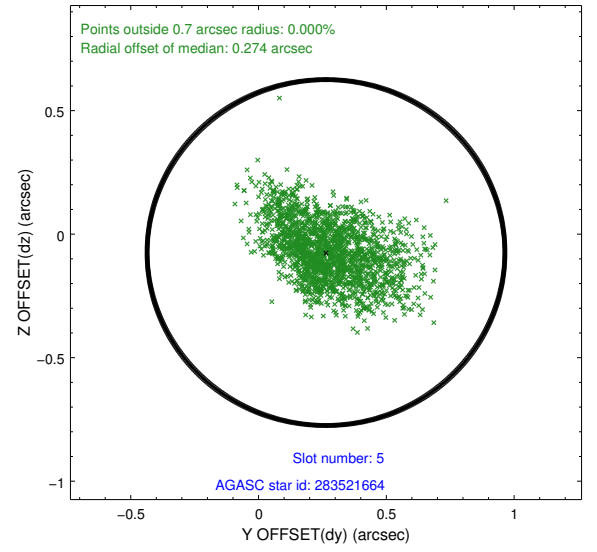
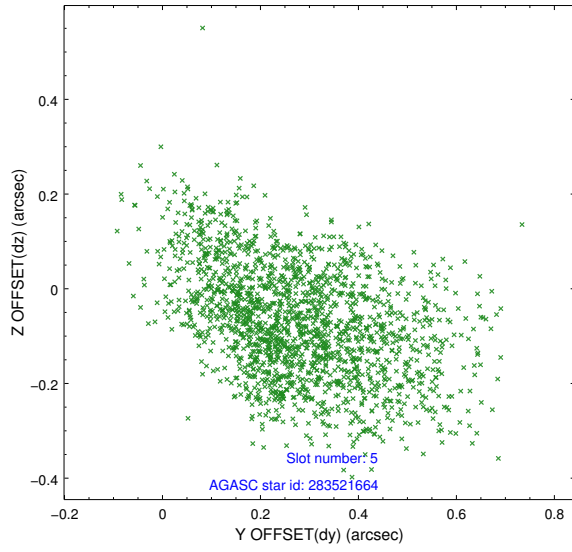
2.4.1 Slot 3



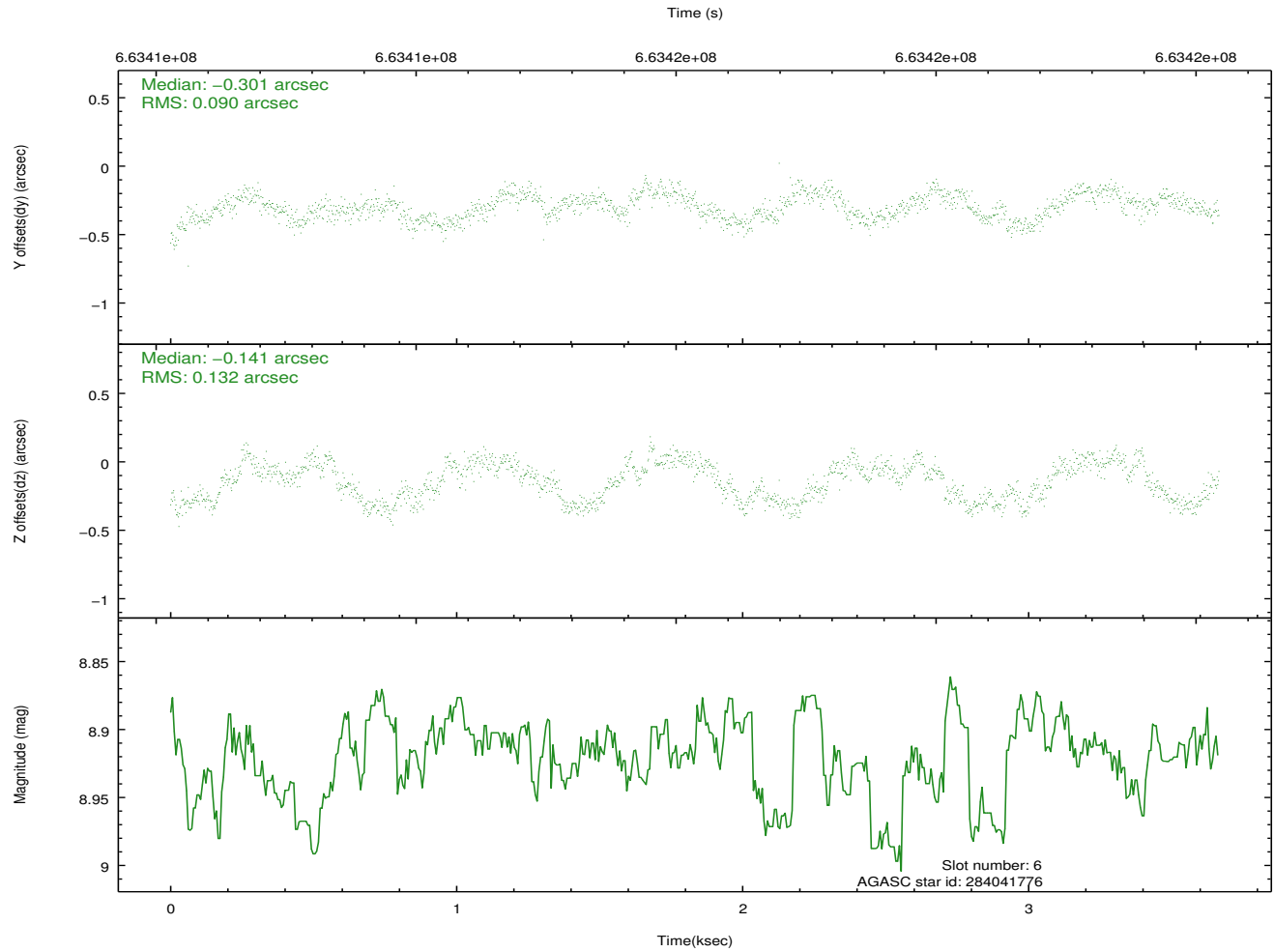
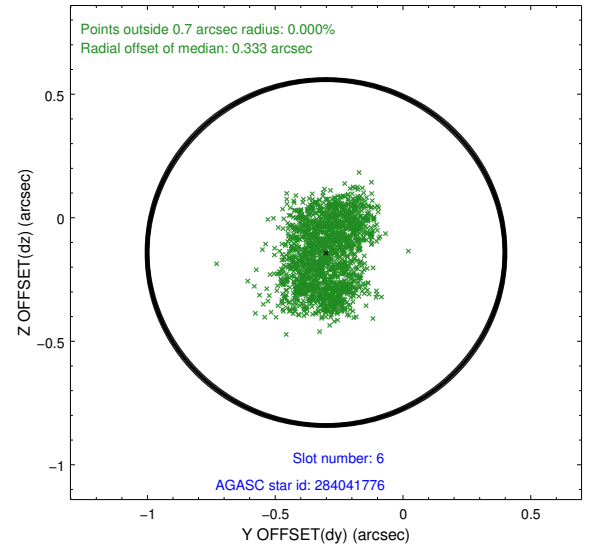
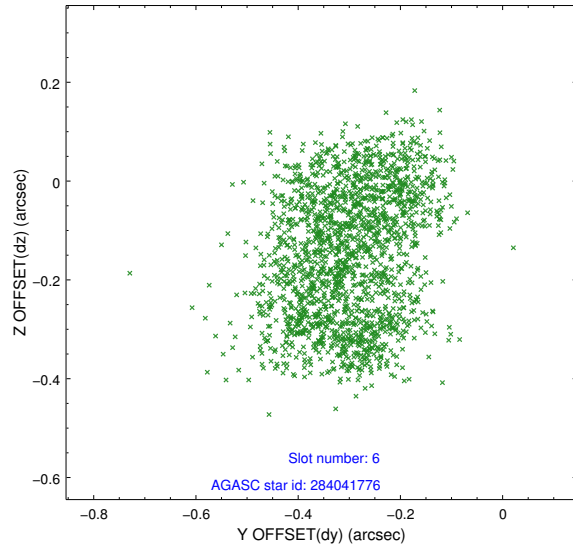
2.4.2 Slot 4



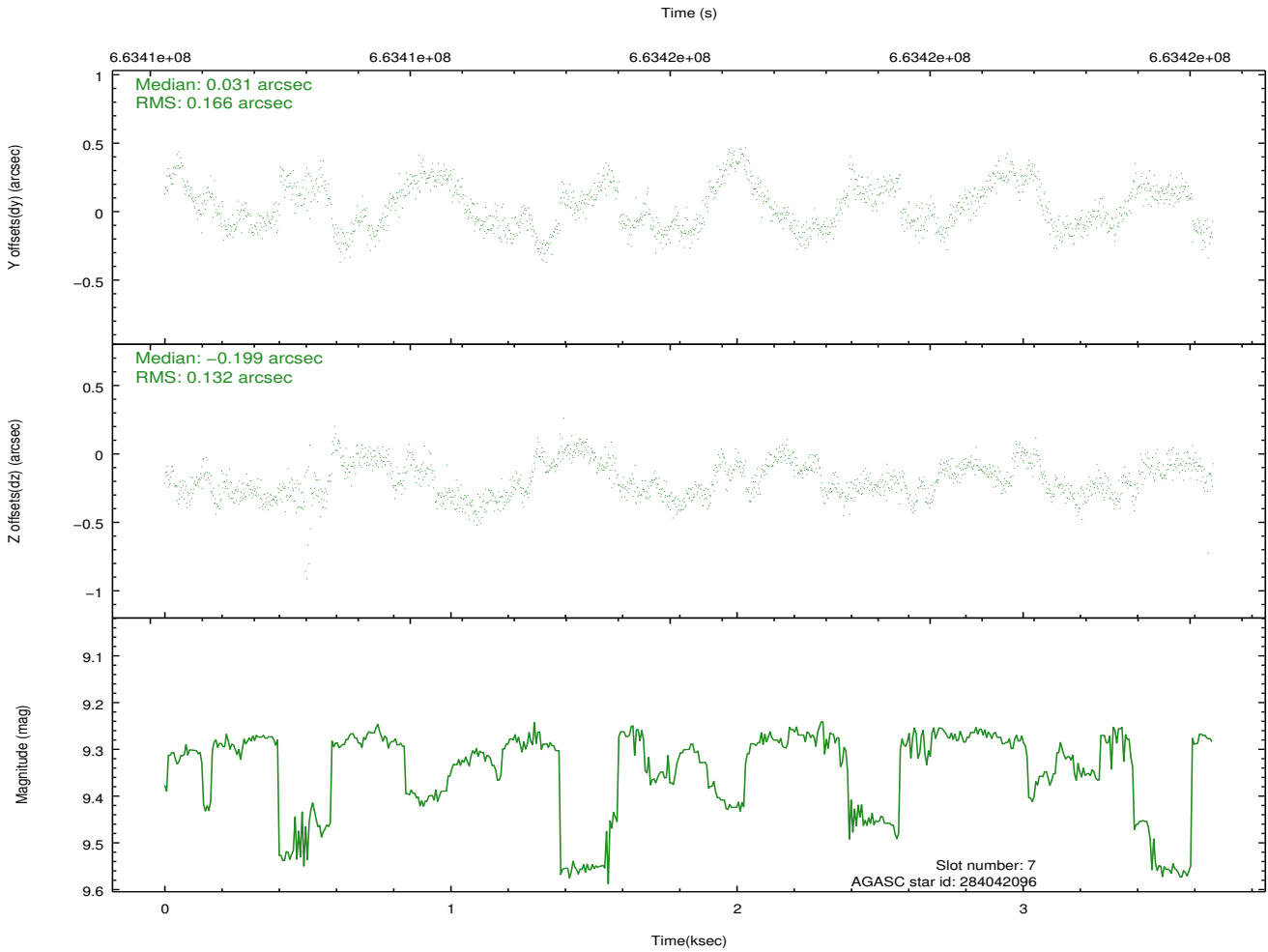
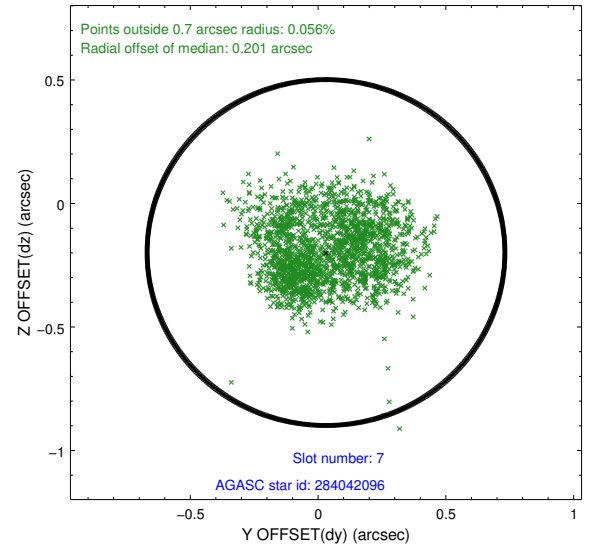
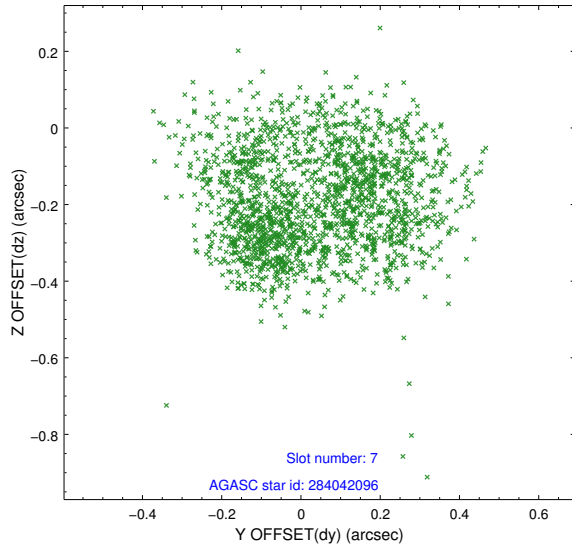
2.4.3 Slot 5



2.4.4 Slot 6

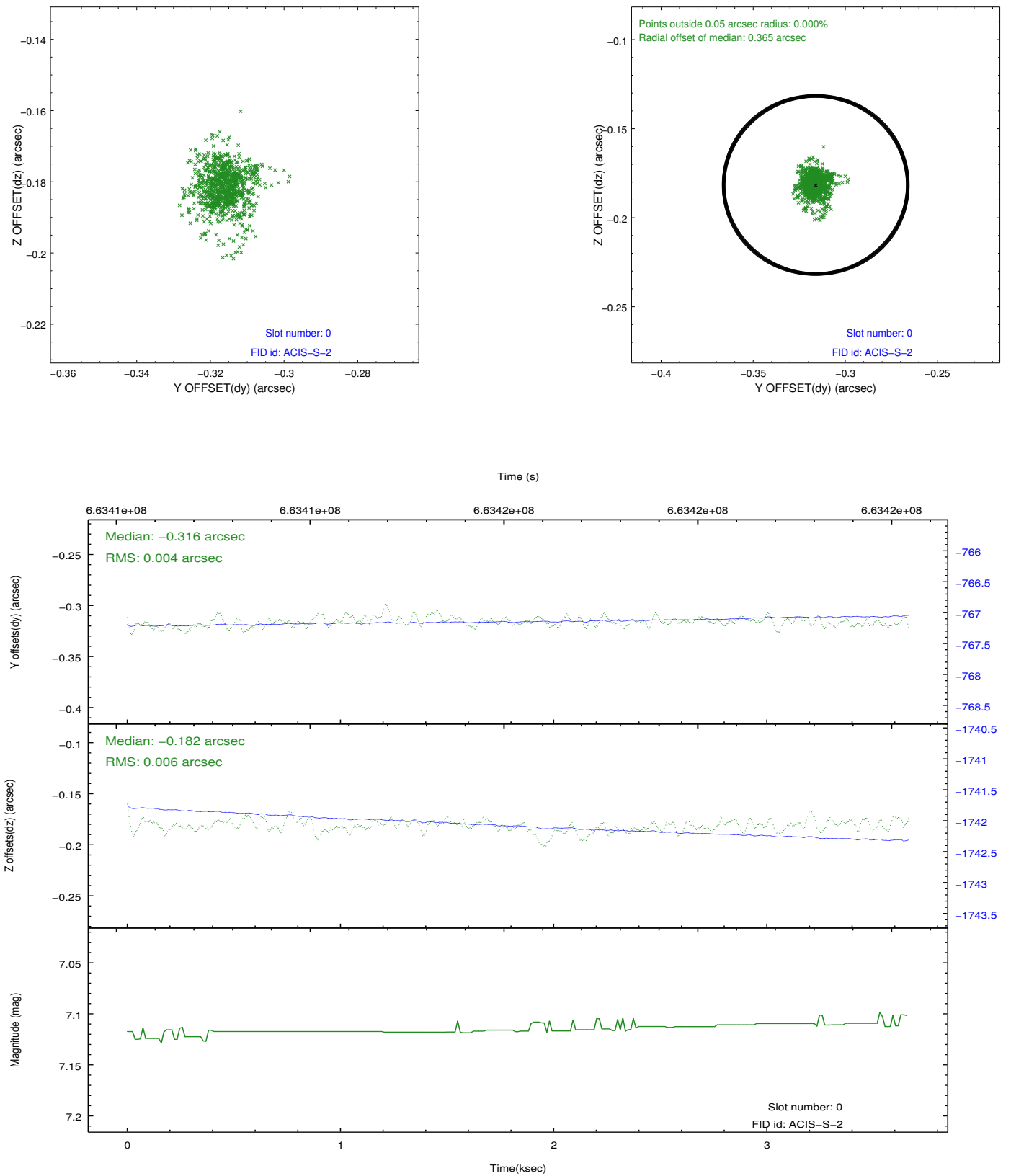


2.4.5 Slot 7

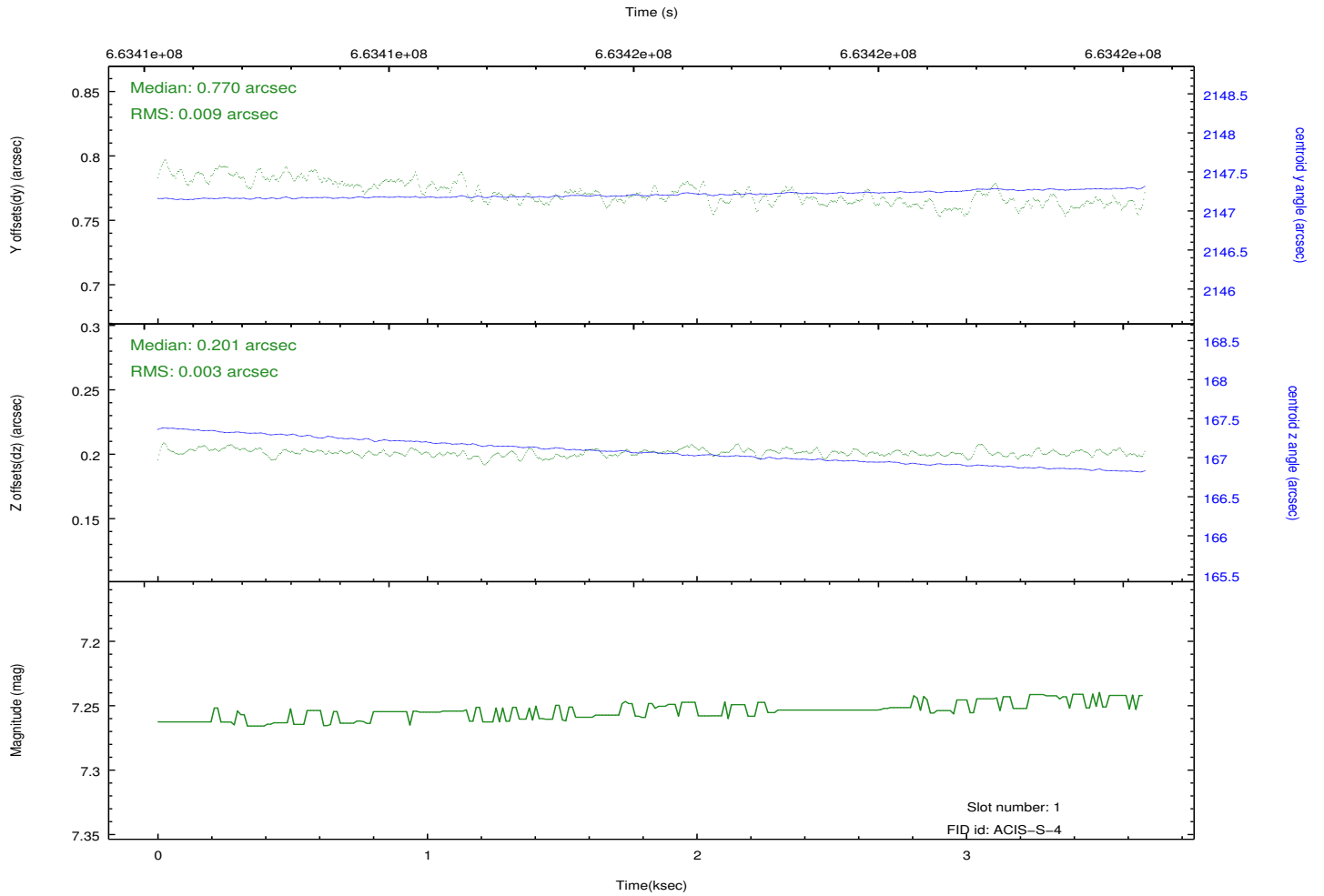
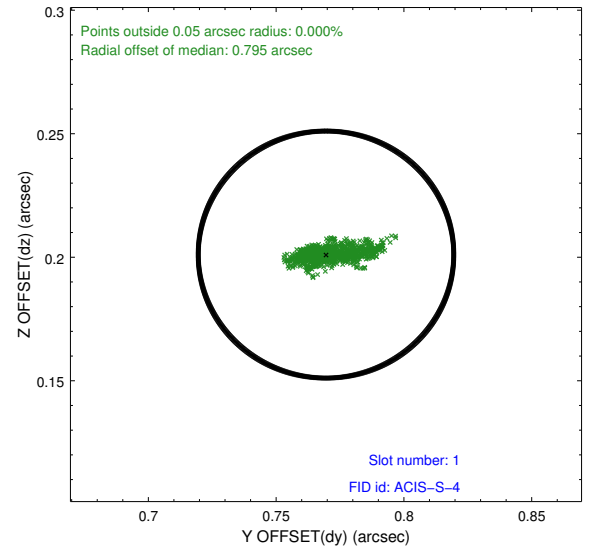
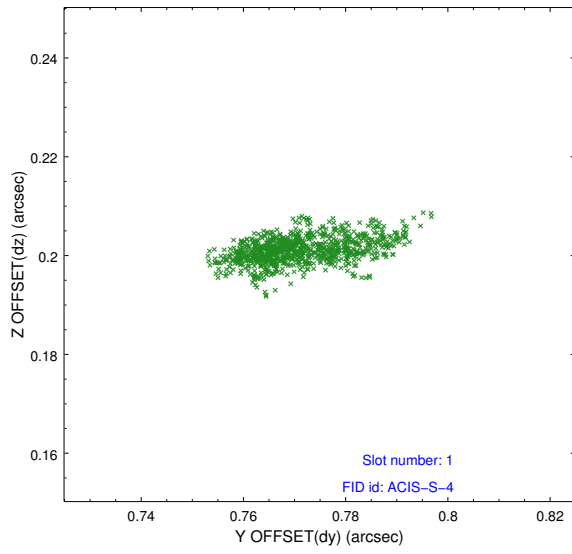


2.5 FID Slots

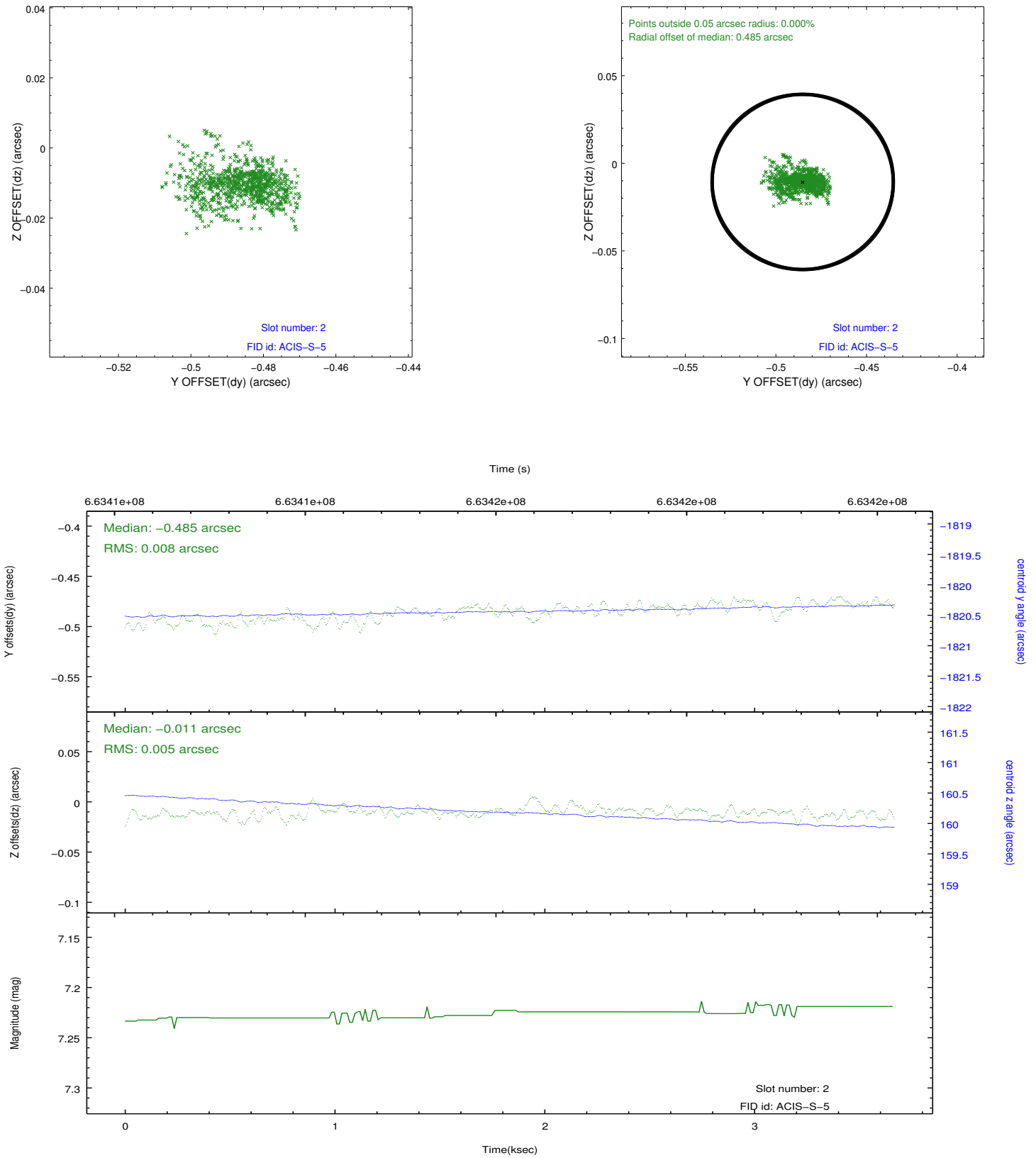
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.01.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5554274296761

A.2 Comments