

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21254 - L2 Version 1
Chandra X-Ray Center

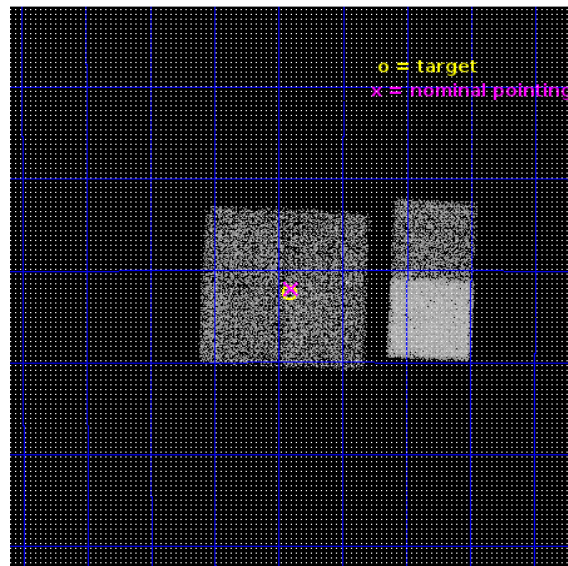
L2 Processing Date : Mar 6 2019

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1 Front

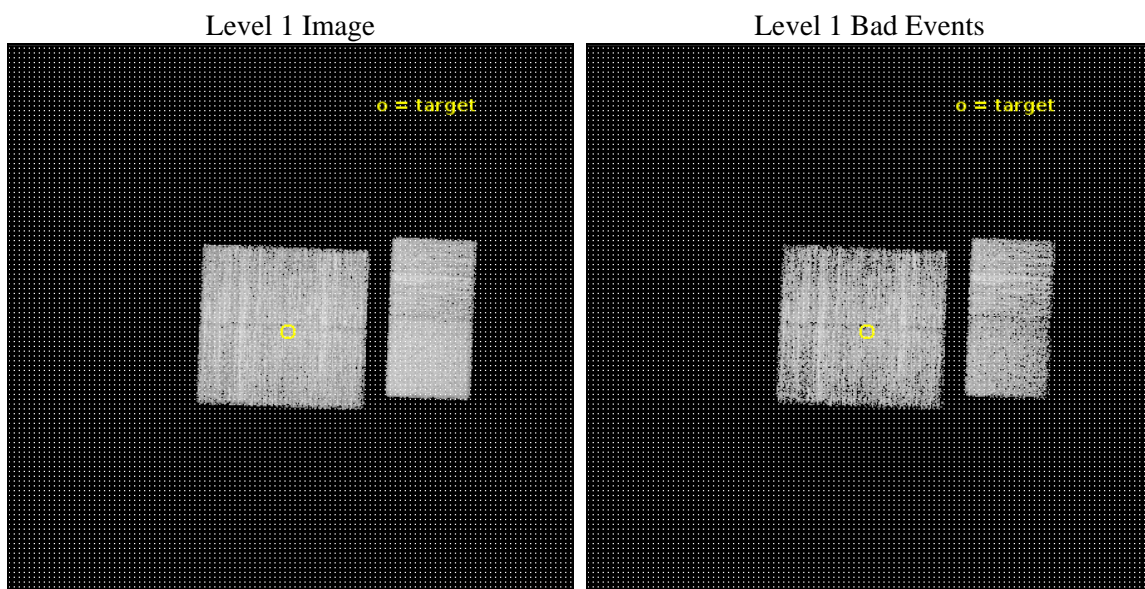
seq_num	402086	Sequence number
obs_id	21254	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	John Tomsick	Principal investigator
object	IGR J18112-2641	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	272.854167	Observer's specified target RA [deg]
dec_targ	-26.707	Observer's specified target Dec [deg]
ra_nom	272.85008969772	Nominal RA [deg]
dec_nom	-26.700019447234	Nominal Dec [deg]
roll_nom	92.33450214559	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4953.6000738144	Sum of GTIs [s]
livetime	4890.8746069799	Livetime [s]
ontime0	4953.6000738144	Sum of GTIs [s]
ontime1	4953.6000738144	Sum of GTIs [s]
ontime2	4953.6000738144	Sum of GTIs [s]
ontime3	4953.6000738144	Sum of GTIs [s]
ontime6	4953.6000738144	Sum of GTIs [s]
ontime7	4953.6000738144	Sum of GTIs [s]
l2events	39973	Number of level 2 events



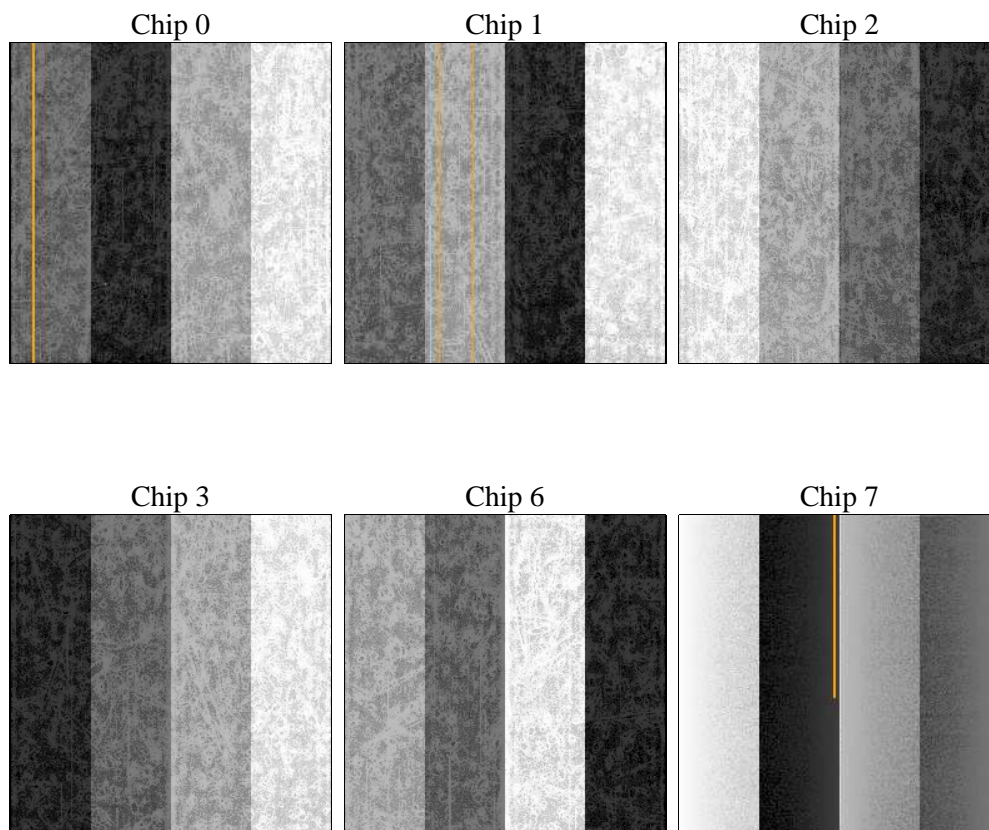
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	4953.6000738144	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	4953.6000738144	Sum of GTIs [s]
date	2019-03-07T01:38:00	Date and time of file creation	ontime1	4953.6000738144	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4953.6000738144	Sum of GTIs [s]
			ontime3	4953.6000738144	Sum of GTIs [s]
			ontime6	4953.6000738144	Sum of GTIs [s]
			ontime7	4953.6000738144	Sum of GTIs [s]
			l1events	229316	Number of level 1 events

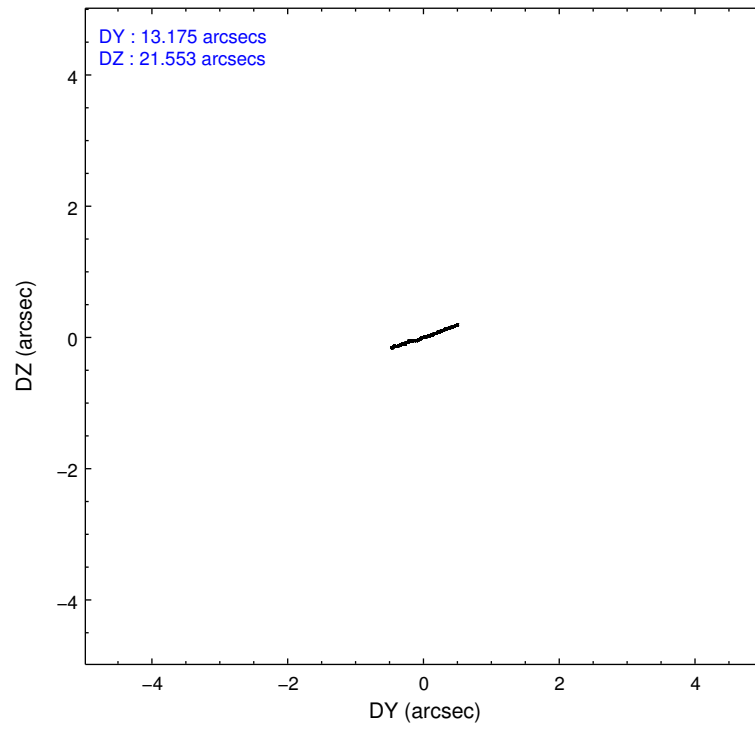
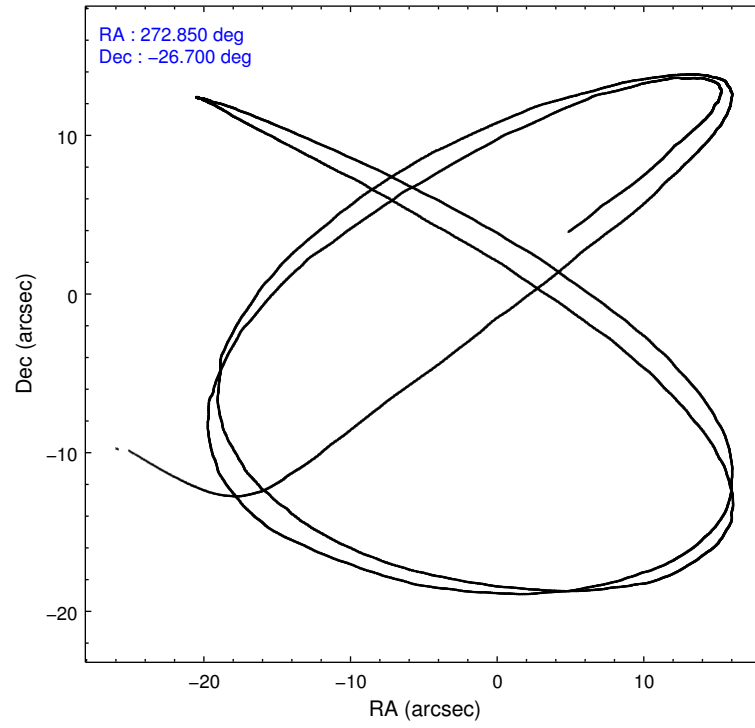
2.1.4 Events

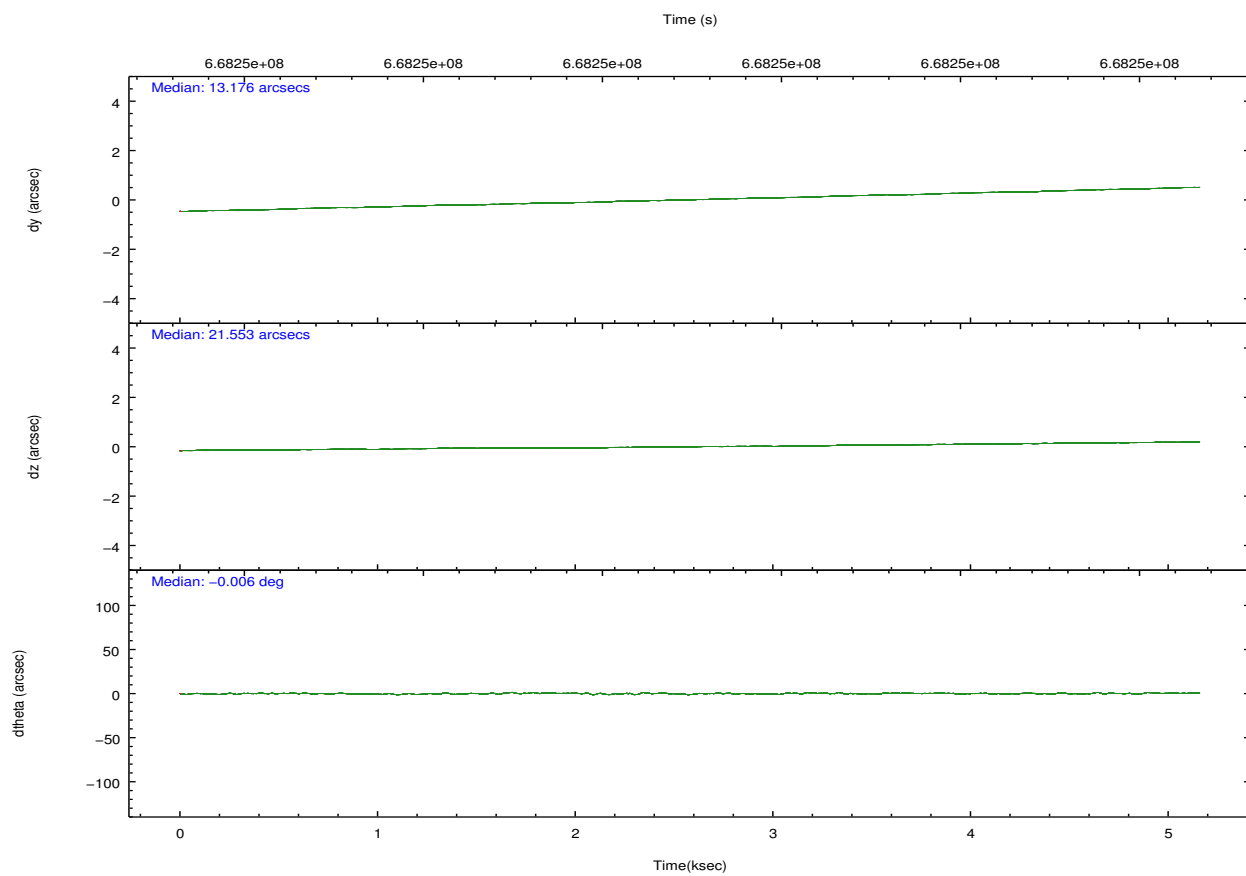
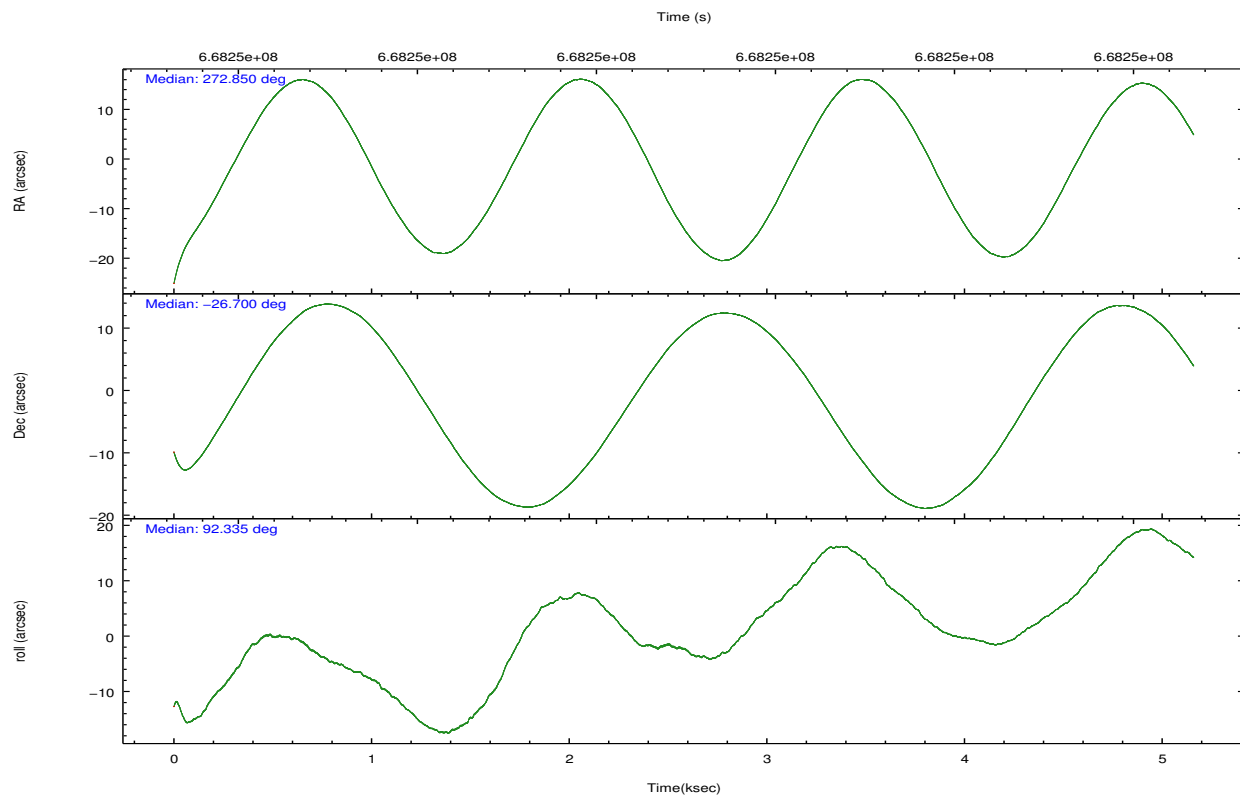
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	35396	35077	37399	35251	38290	47903	grade 0 events	1699	1796	1798	1769	1540	1816
rejected events	30763	30341	32863	30937	33832	26644		4%	5%	4%	5%	4%	3%
rejected %	86%	86%	87%	87%	88%	55%	grade 1 events	19	20	25	28	26	80
								0%	0%	0%	0%	0%	0%
							grade 2 events	1197	1170	1040	878	1001	4603
								3%	3%	2%	2%	2%	9%
							grade 3 events	415	407	409	397	430	1669
								1%	1%	1%	1%	1%	3%
							grade 4 events	437	405	419	436	469	1656
								1%	1%	1%	1%	1%	3%
							grade 5 events	1636	1657	1603	1737	1794	4739
								4%	4%	4%	4%	4%	9%
							grade 6 events	892	961	871	839	1023	11533
								2%	2%	2%	2%	2%	24%
							grade 7 events	29101	28661	31234	29167	32007	21807
								82%	81%	83%	82%	83%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	272.866491	272.8500896977225	CCD I2 on	Y	Y
[deg] Pointing Dec	-26.723724	-26.7000194472339	CCD I3 on	Y	Y
[deg] Pointing Roll	92.133176	92.33450214559048	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	668249066.184000	668247995.4318	CCD S5 on	N	N
Observation start date	2019-03-06T08:43:17	2019-03-06T08:26:35	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	668254066.184000	668254939.2947201	On-chip summing requested	N	N
Observation end date	2019-03-06T10:06:37	2019-03-06T10:22:19	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



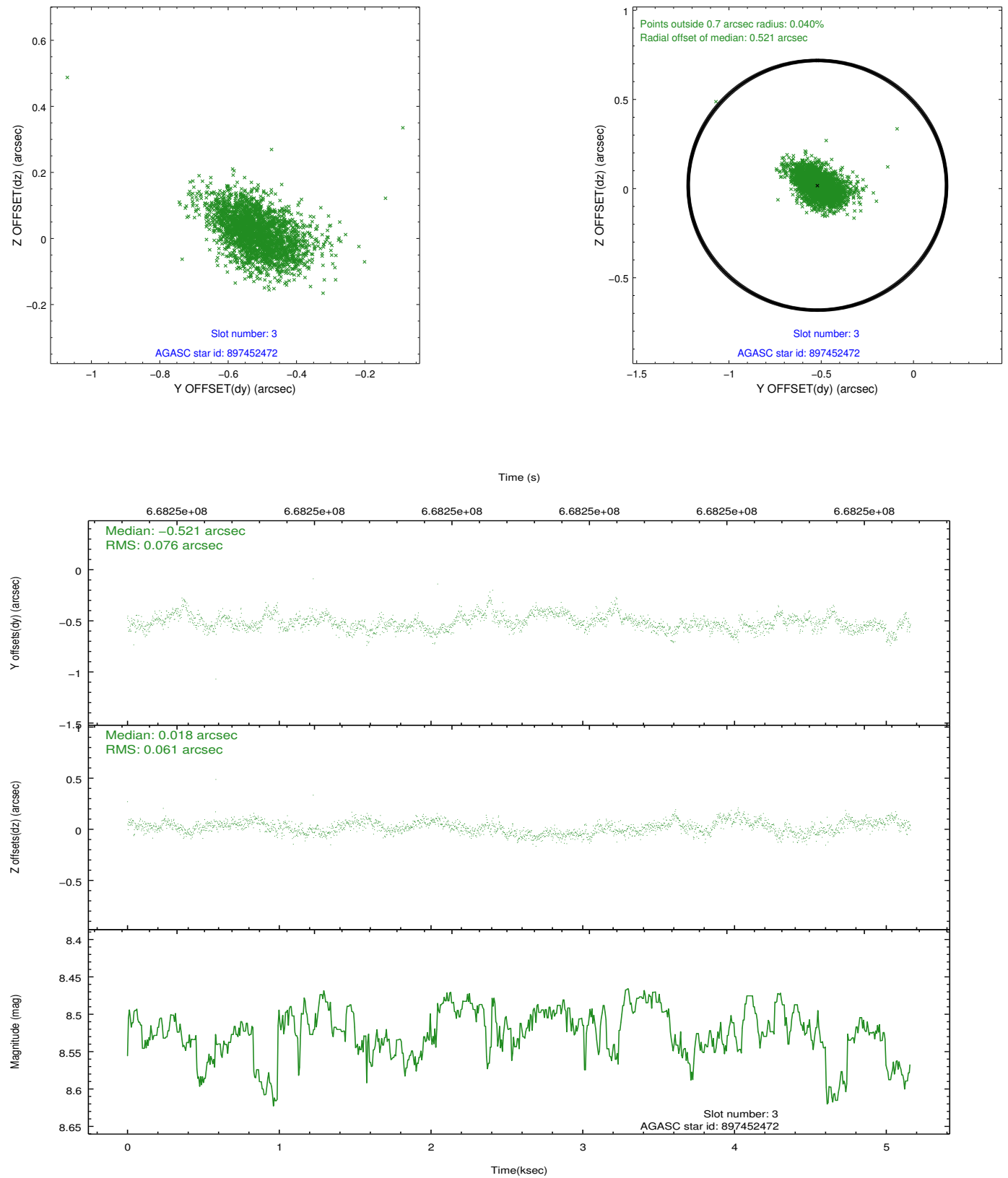


Slot Statistics

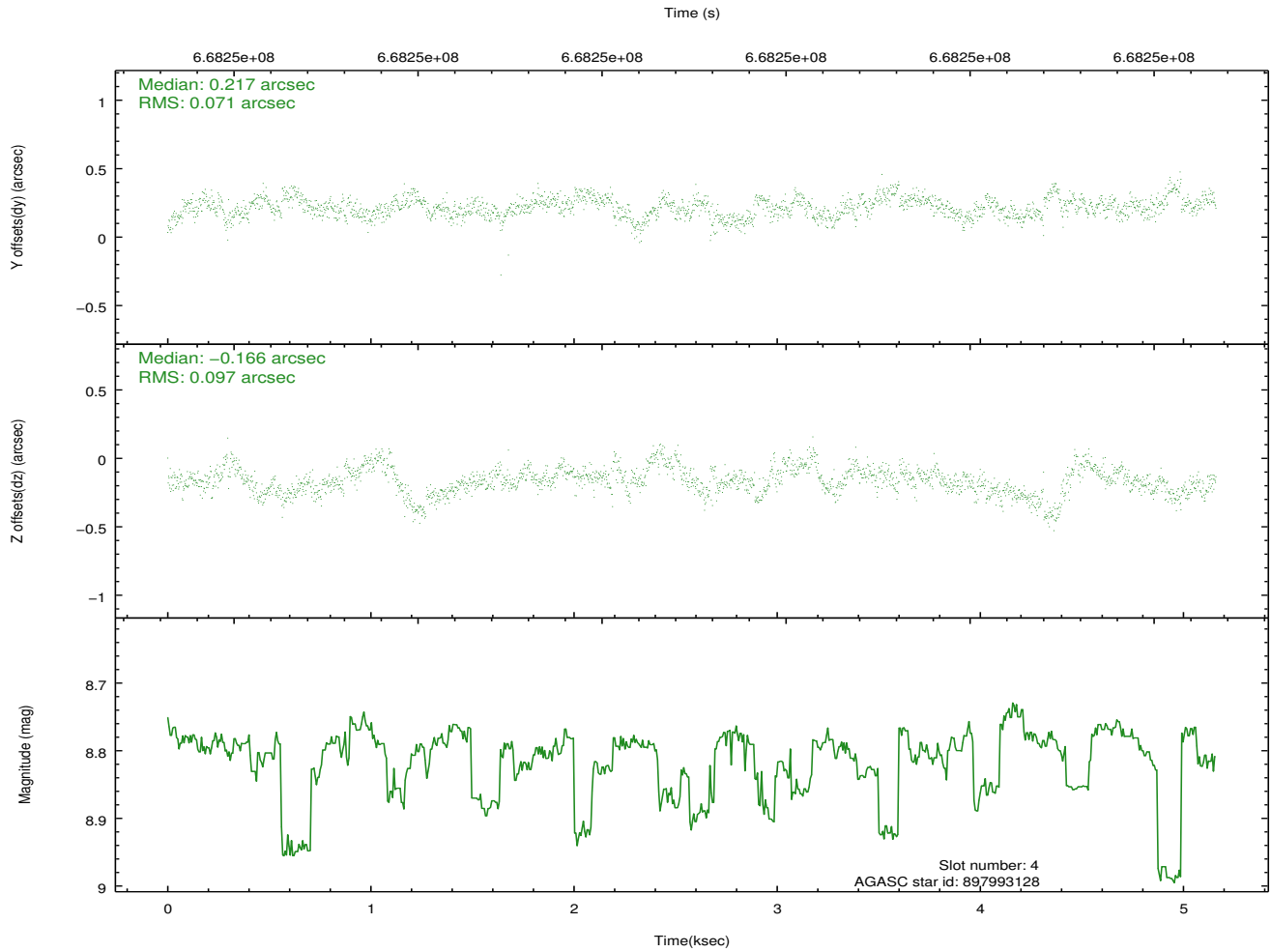
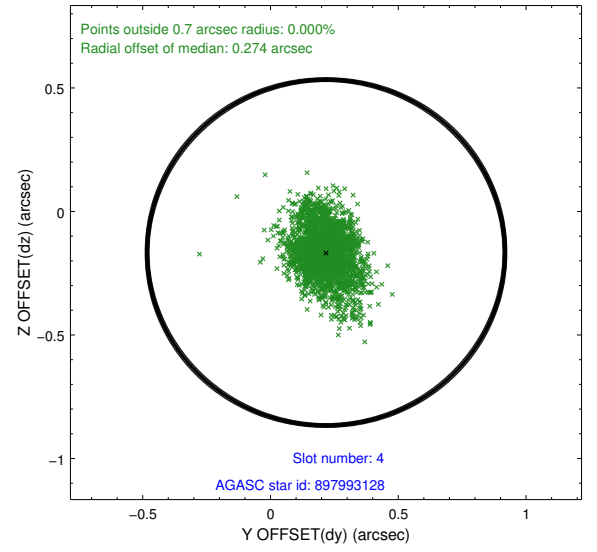
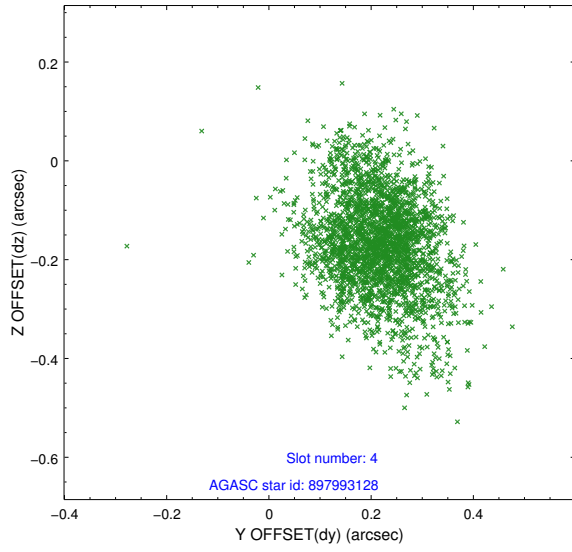
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.13	1259	1.000	0.095	-0.082	0.007	0.012	0.000000	0.000000	926.47	-845
1	FID		ACIS-I-5	7.13	1259	1.000	-0.442	0.023	0.008	0.015	0.000000	0.000000	-1821.65	1051
2	FID		ACIS-I-6	7.12	1259	1.000	0.256	0.129	0.007	0.012	0.000000	0.000000	390.73	1697
3	GUIDE	used	897452472	8.52	2516	1.000	-0.521	0.018	0.100	0.170	272.897639	-26.119105	2169.56	-181
4	GUIDE	used	897993128	8.80	2512	1.000	0.217	-0.166	0.123	0.217	272.348606	-27.111207	-1335.78	1710
5	GUIDE	used	897994056	8.44	2517	1.000	0.736	0.902	0.112	0.187	273.329575	-27.215143	-1827.08	-1413
6	GUIDE	used	898027632	7.95	2518	1.000	-0.526	-0.608	0.118	0.190	272.207016	-26.554933	678.08	2099
7	GUIDE	used	898027440	8.60	2513	1.000	0.087	-0.150	0.137	0.242	272.158032	-27.313955	-2046.30	2345

2.4 Star Slots

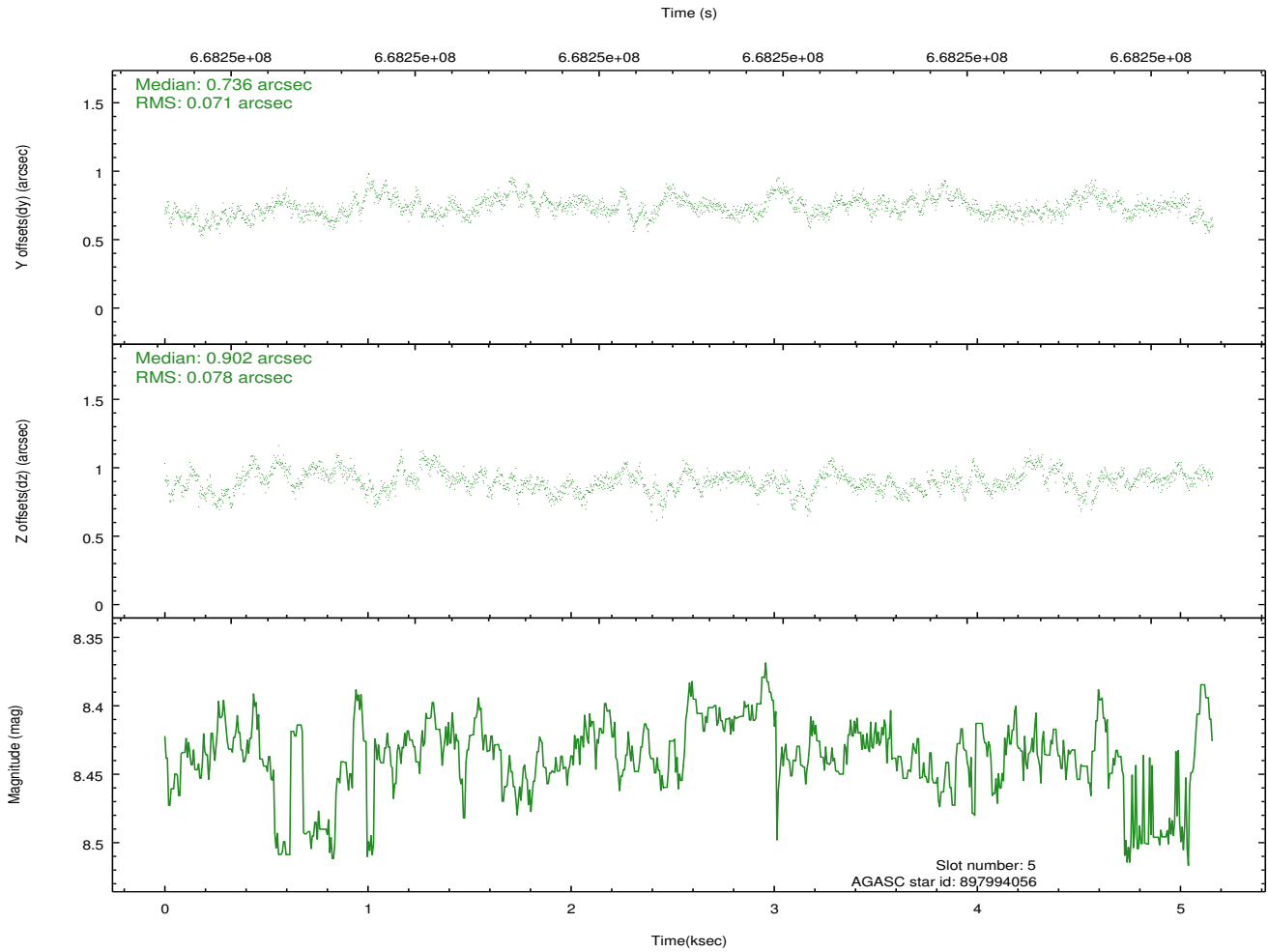
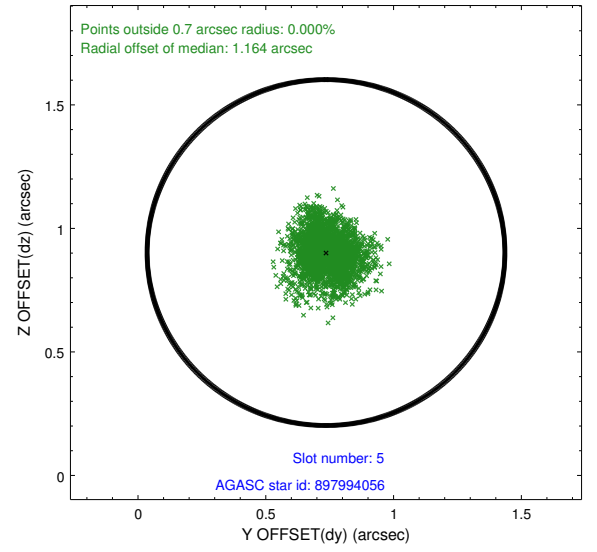
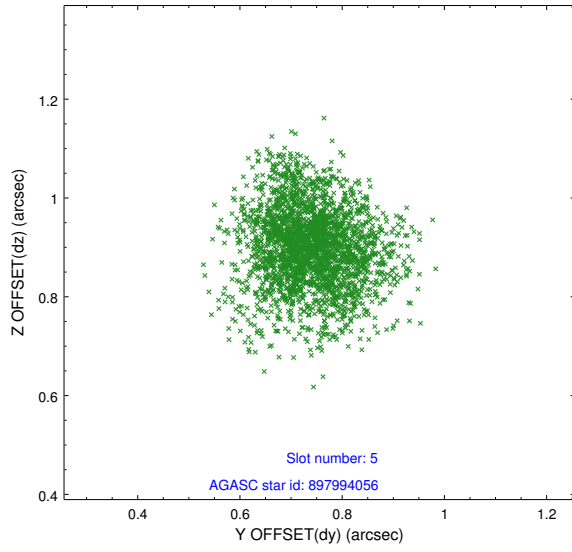
2.4.1 Slot 3



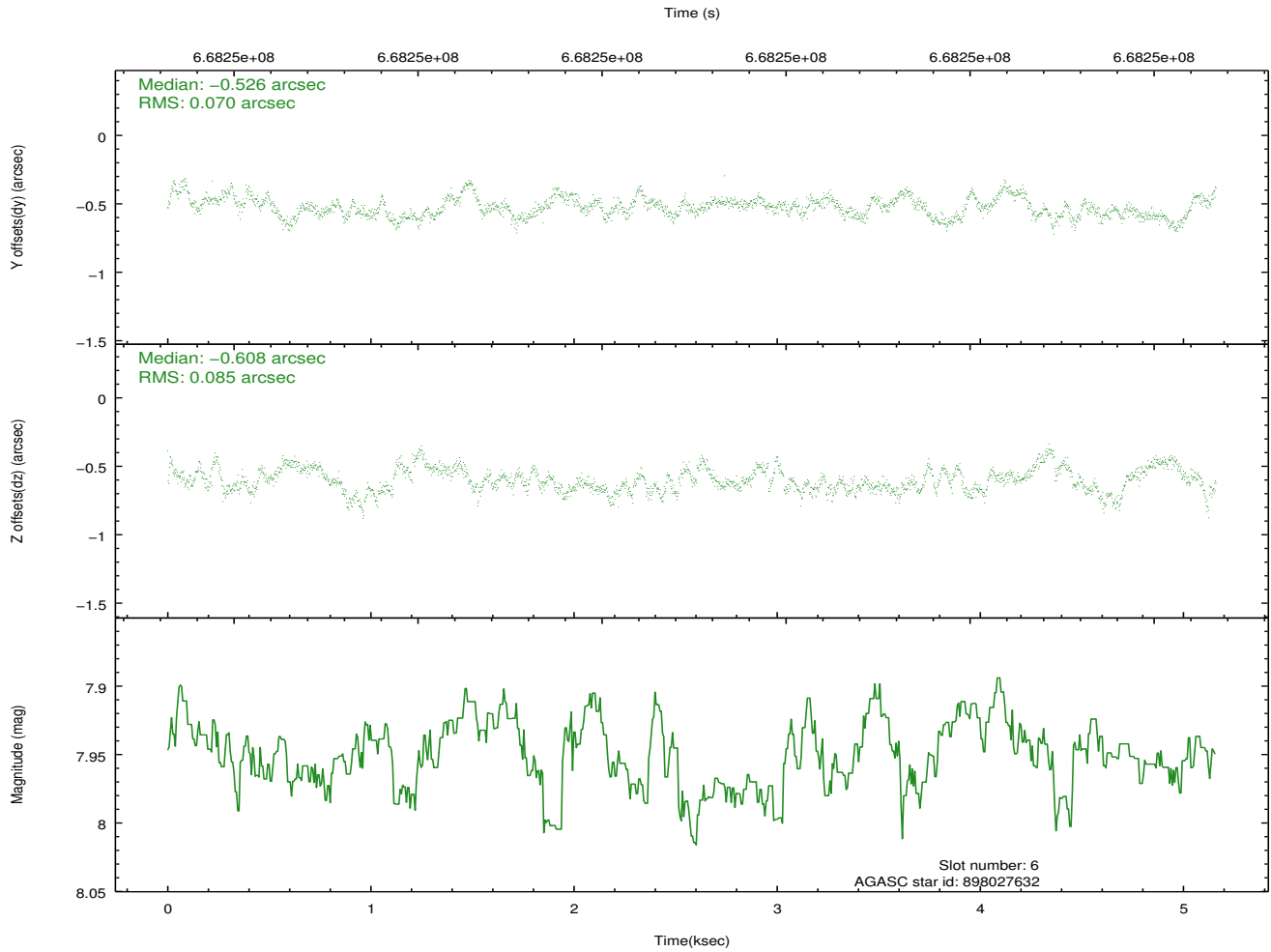
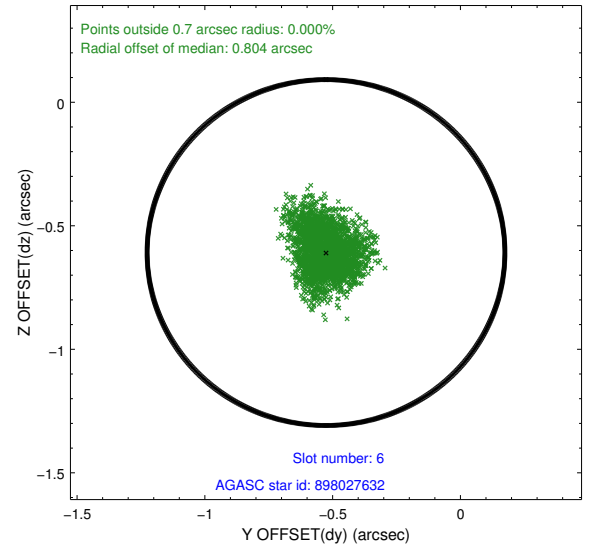
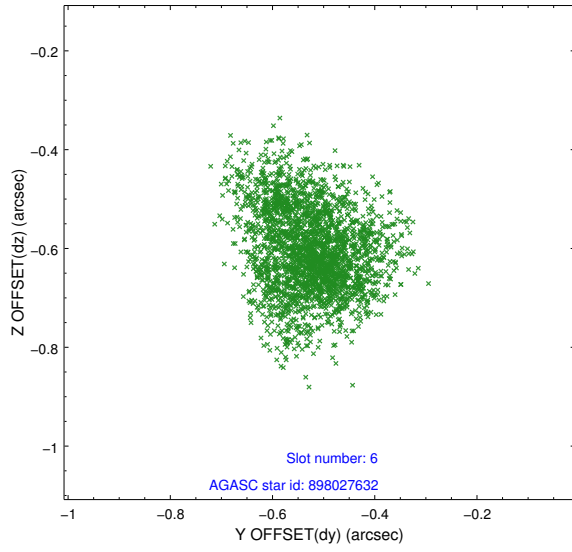
2.4.2 Slot 4



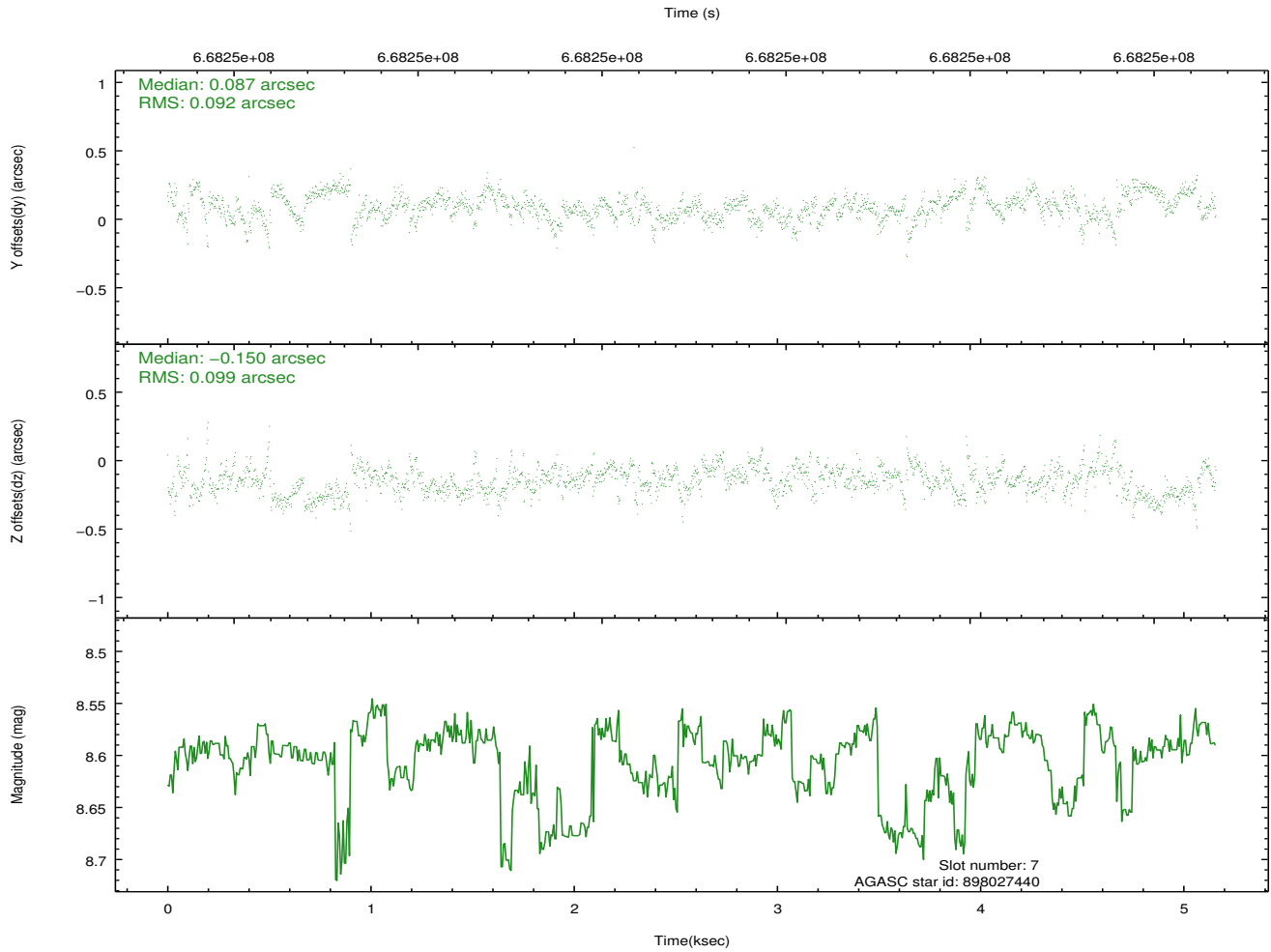
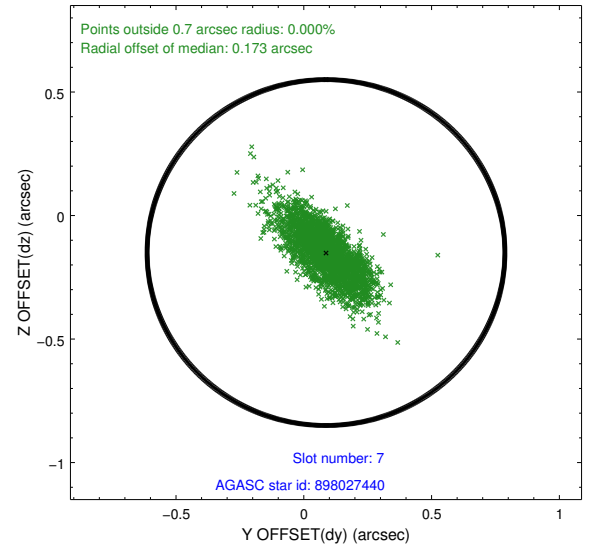
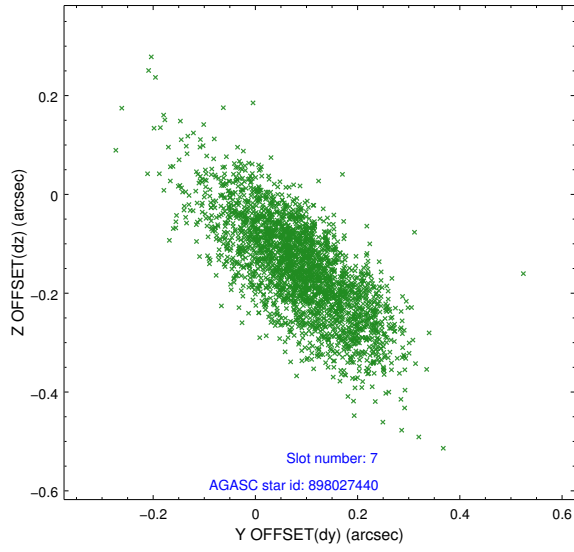
2.4.3 Slot 5



2.4.4 Slot 6

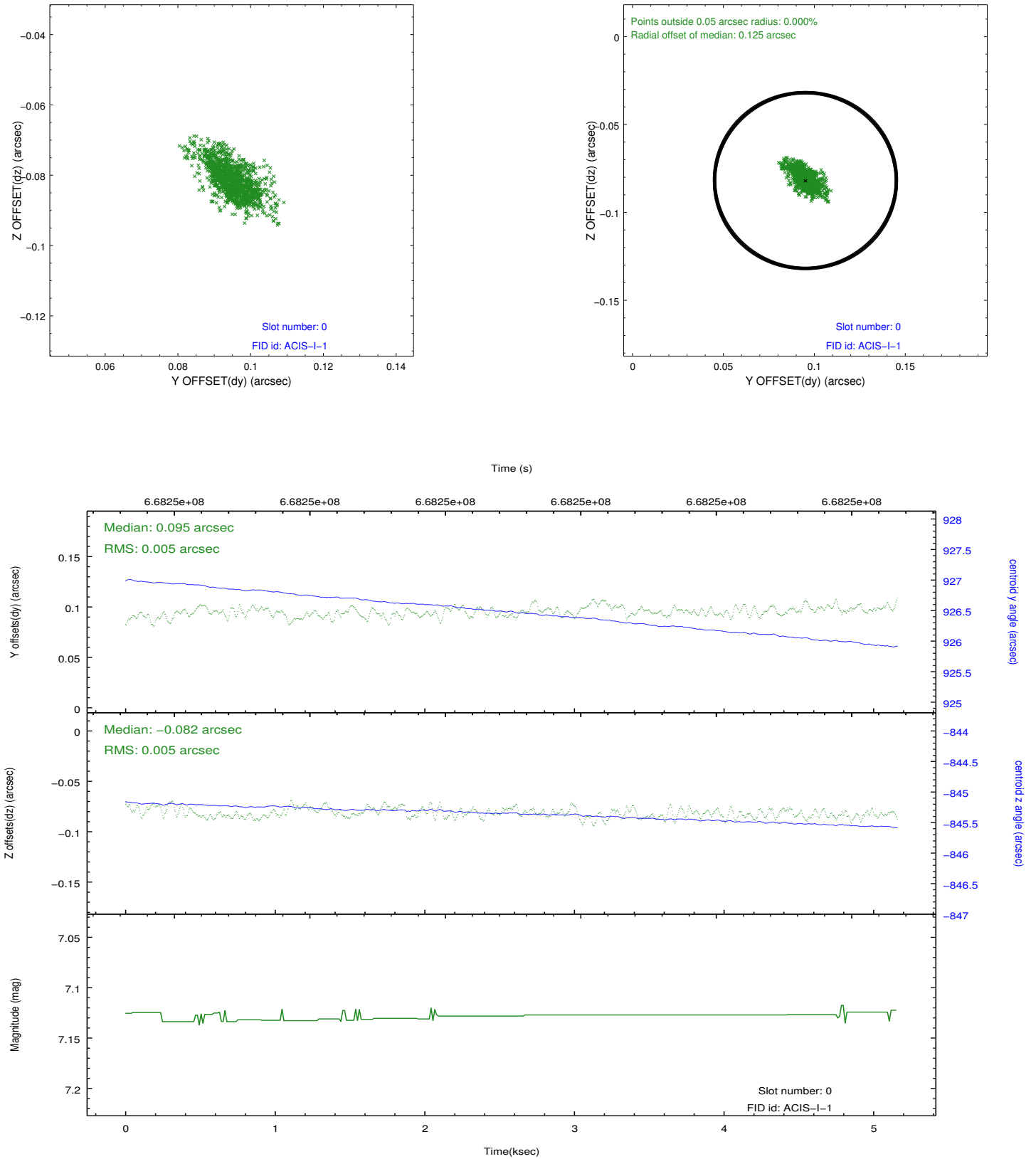


2.4.5 Slot 7

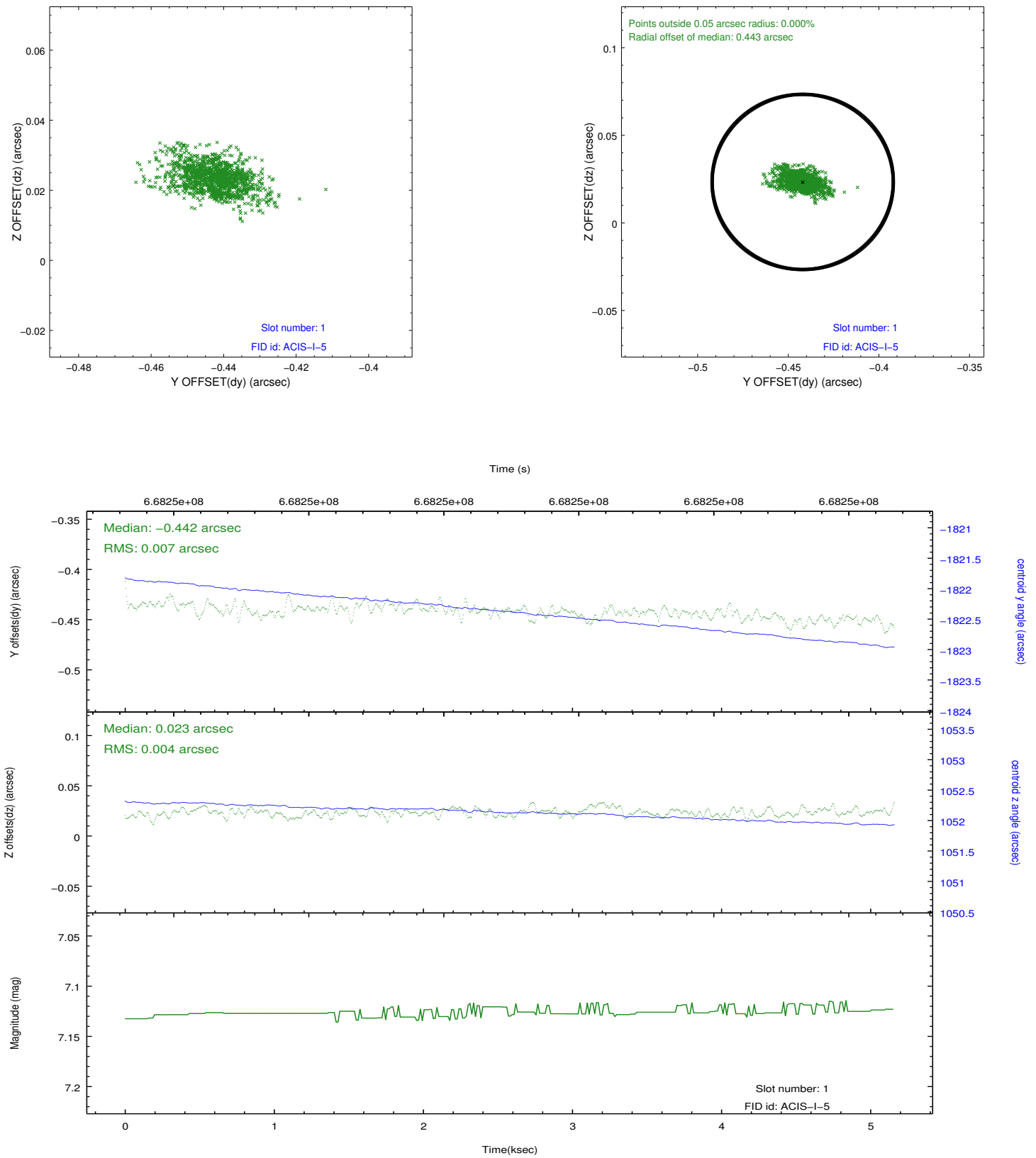


2.5 FID Slots

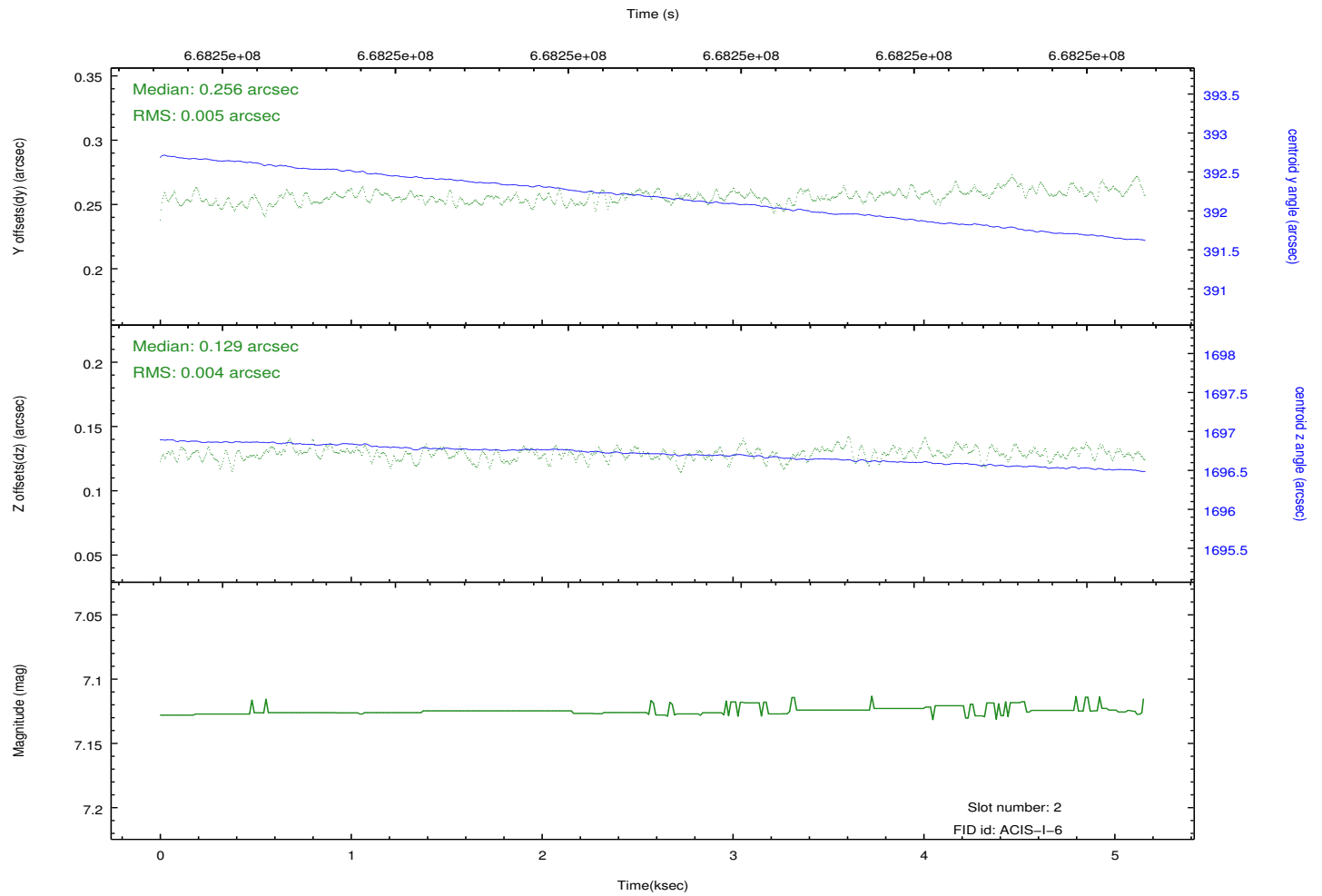
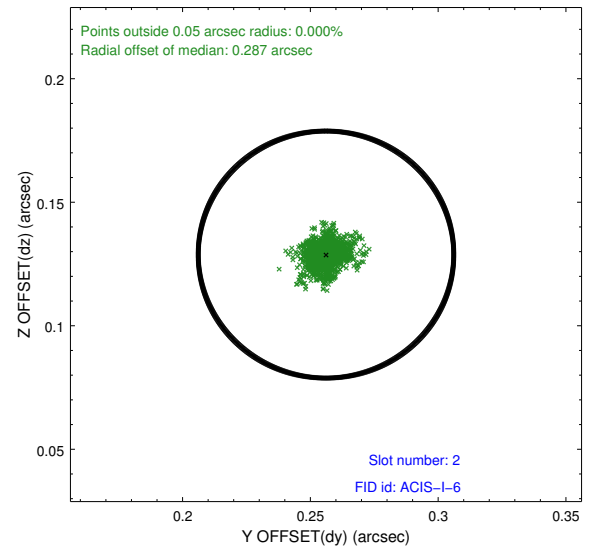
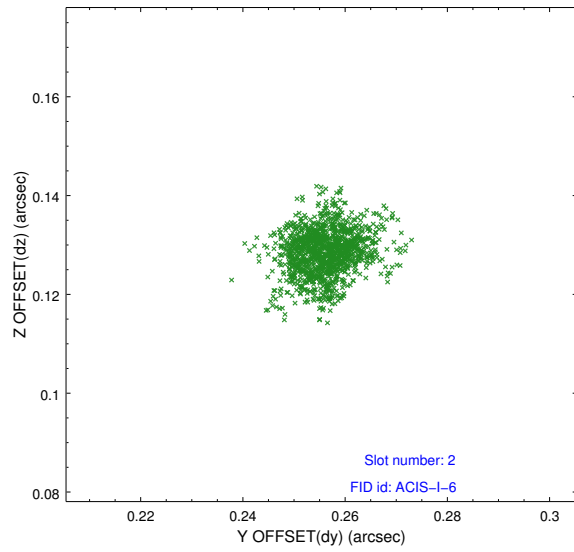
2.5.1 Slot 0



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)	2019.03.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9536000738144

A.2 Comments