

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16980 - L2 Version 1
Chandra X-Ray Center

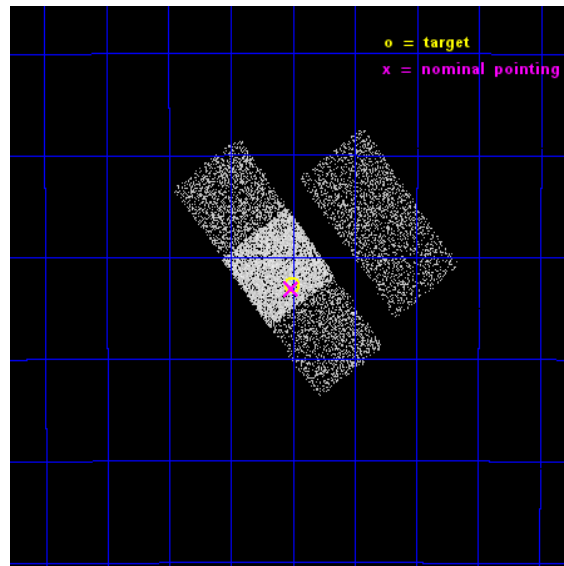
L2 Processing Date : Apr 4 2015

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1 Front

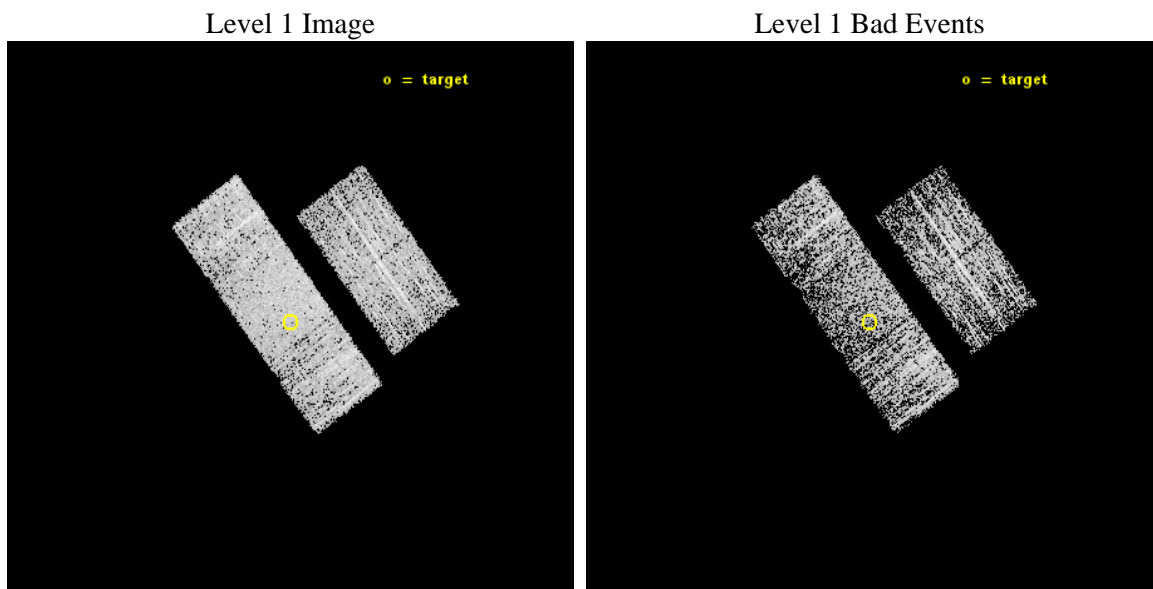
seq_num	601173	Sequence number
obs_id	16980	Observation id
title	Super-massive black holes and nuclear star clusters in late type galaxies	Proposal title
observer	Elena Gallo	Principal investigator
object	ESO418-8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	52.8775	Observer's specified target RA [deg]
dec_targ	-30.213306	Observer's specified target Dec [deg]
ra_nom	52.877655763037	Nominal RA [deg]
dec_nom	-30.218704096184	Nominal Dec [deg]
roll_nom	233.56897068332	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3160.7460330725	Sum of GTIs [s]
livetime	3119.448559243	Livetime [s]
ontime2	3160.5818730593	Sum of GTIs [s]
ontime3	3160.6639530659	Sum of GTIs [s]
ontime6	3160.7049931288	Sum of GTIs [s]
ontime7	3160.7460330725	Sum of GTIs [s]
ontime8	3160.6229131222	Sum of GTIs [s]
l2events	15029	Number of level 2 events



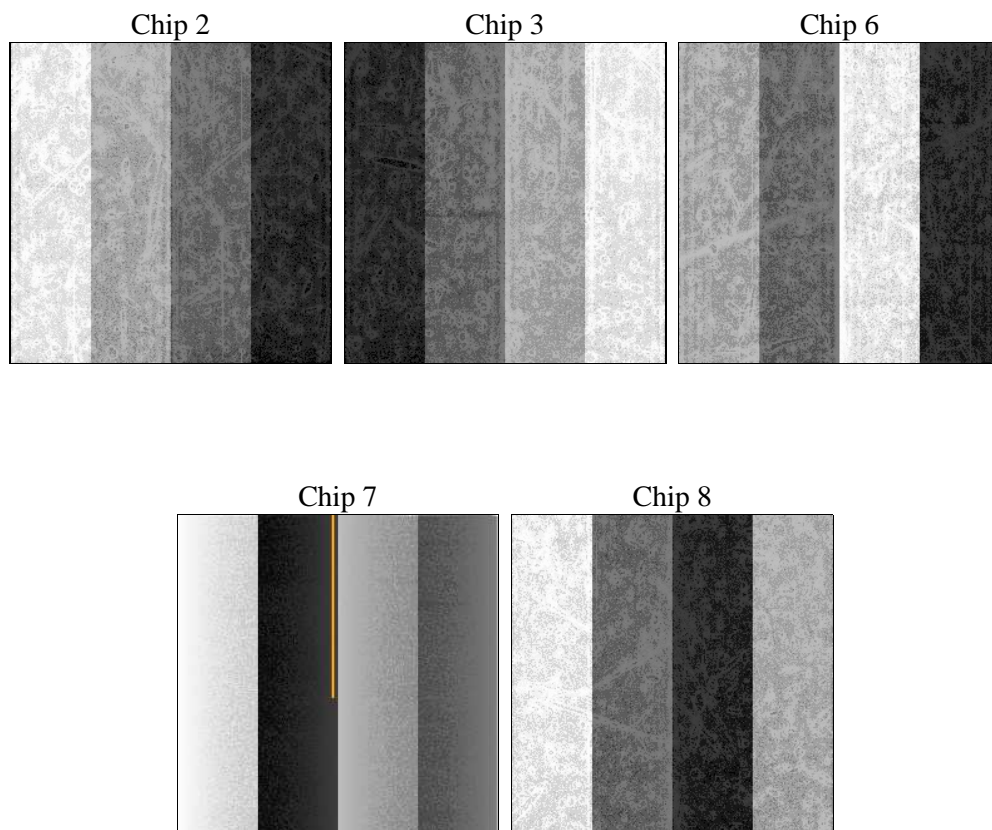
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3100.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	3160.7460330725	Sum of GTIs [s]
caldsver	4.6.7	 	ontime2	3160.5818730593	Sum of GTIs [s]
date	2015-04-05T03:28:54	Date and time of file creation	ontime3	3160.6639530659	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3160.7049931288	Sum of GTIs [s]
			ontime7	3160.7460330725	Sum of GTIs [s]
			ontime8	3160.6229131222	Sum of GTIs [s]
			l1events	86885	Number of level 1 events

2.1.4 Events

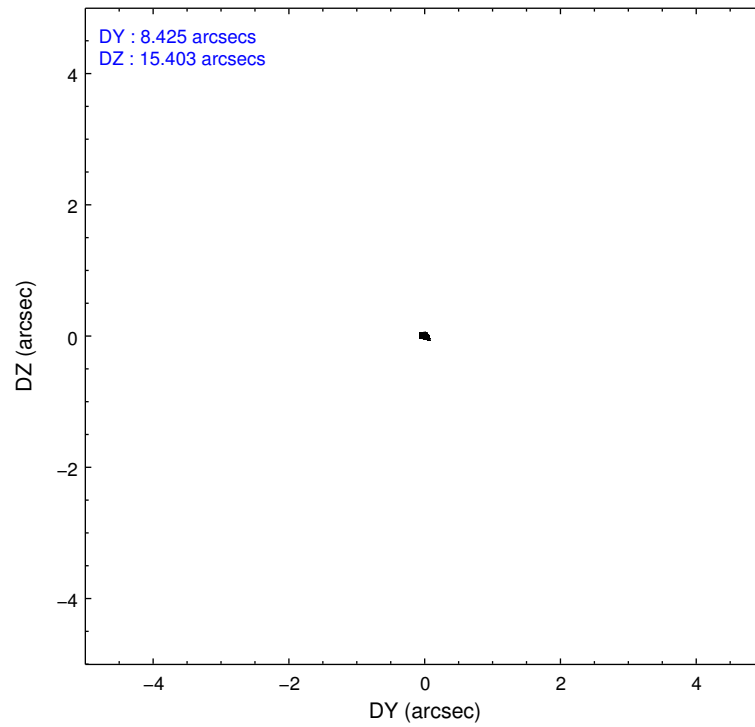
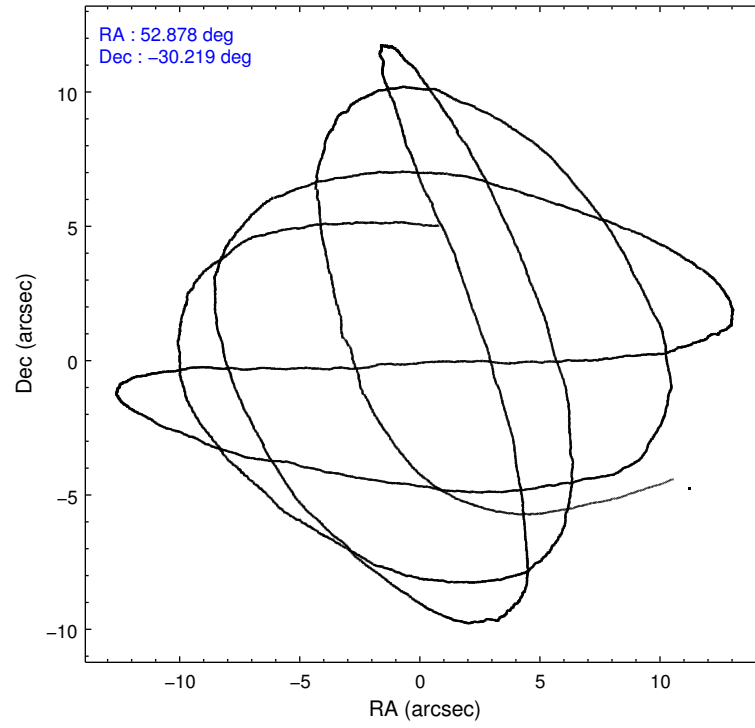
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	15793	14658	17150	20148	19136
rejected events	14160	13057	15214	11318	14139
rejected %	89%	89%	88%	56%	73%

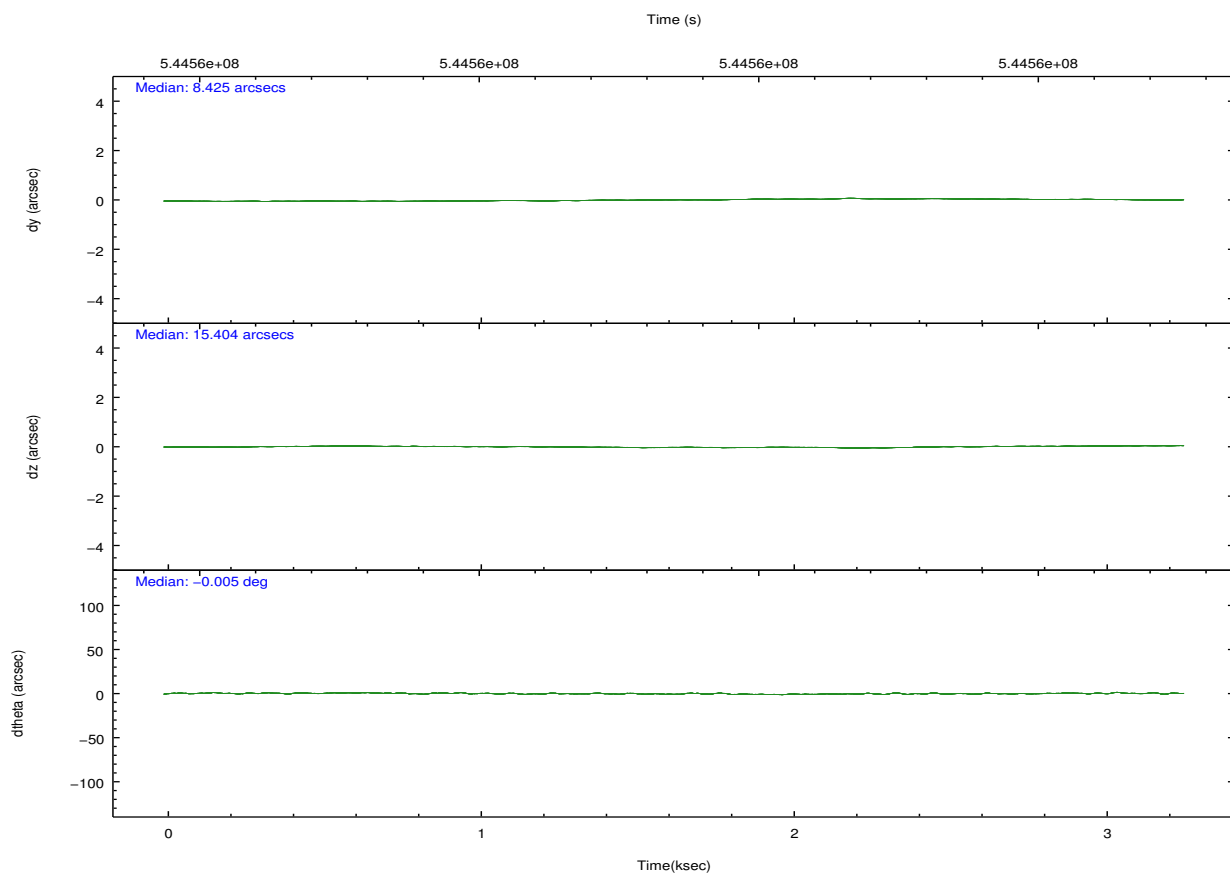
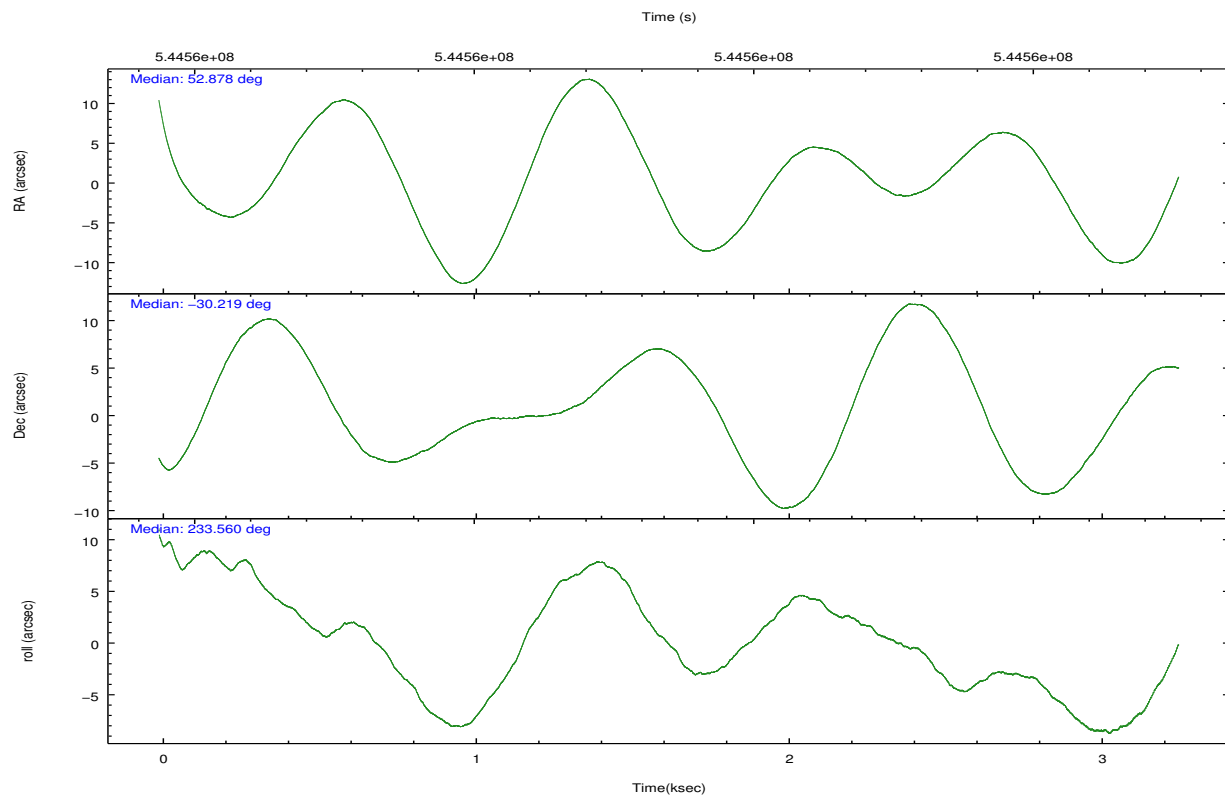
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	540	594	650	771	1516
	3%	4%	3%	3%	7%
grade 1 events	13	5	6	39	12
	0%	0%	0%	0%	0%
grade 2 events	452	343	445	1797	1250
	2%	2%	2%	8%	6%
grade 3 events	162	168	185	749	511
	1%	1%	1%	3%	2%
grade 4 events	167	176	210	813	482
	1%	1%	1%	4%	2%
grade 5 events	631	769	789	2060	1085
	3%	5%	4%	10%	5%
grade 6 events	318	327	453	4722	1257
	2%	2%	2%	23%	6%
grade 7 events	13510	12276	14412	9197	13023
	85%	83%	84%	45%	68%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	52.880926	52.87765576303678	CCD I2 on	O2	Y
[deg] Pointing Dec	-30.191424	-30.21870409618434	CCD I3 on	O1	Y
[deg] Pointing Roll	233.414017	233.5689706833192	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)	544560209.184000	544558957.85481	CCD S5 on	N	N
Observation start date	2015-04-04T18:42:22	2015-04-04T18:22:37	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	544563309.184000	544563940.89259	On-chip summing requested	N	N
Observation end date	2015-04-04T19:34:02	2015-04-04T19:45:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



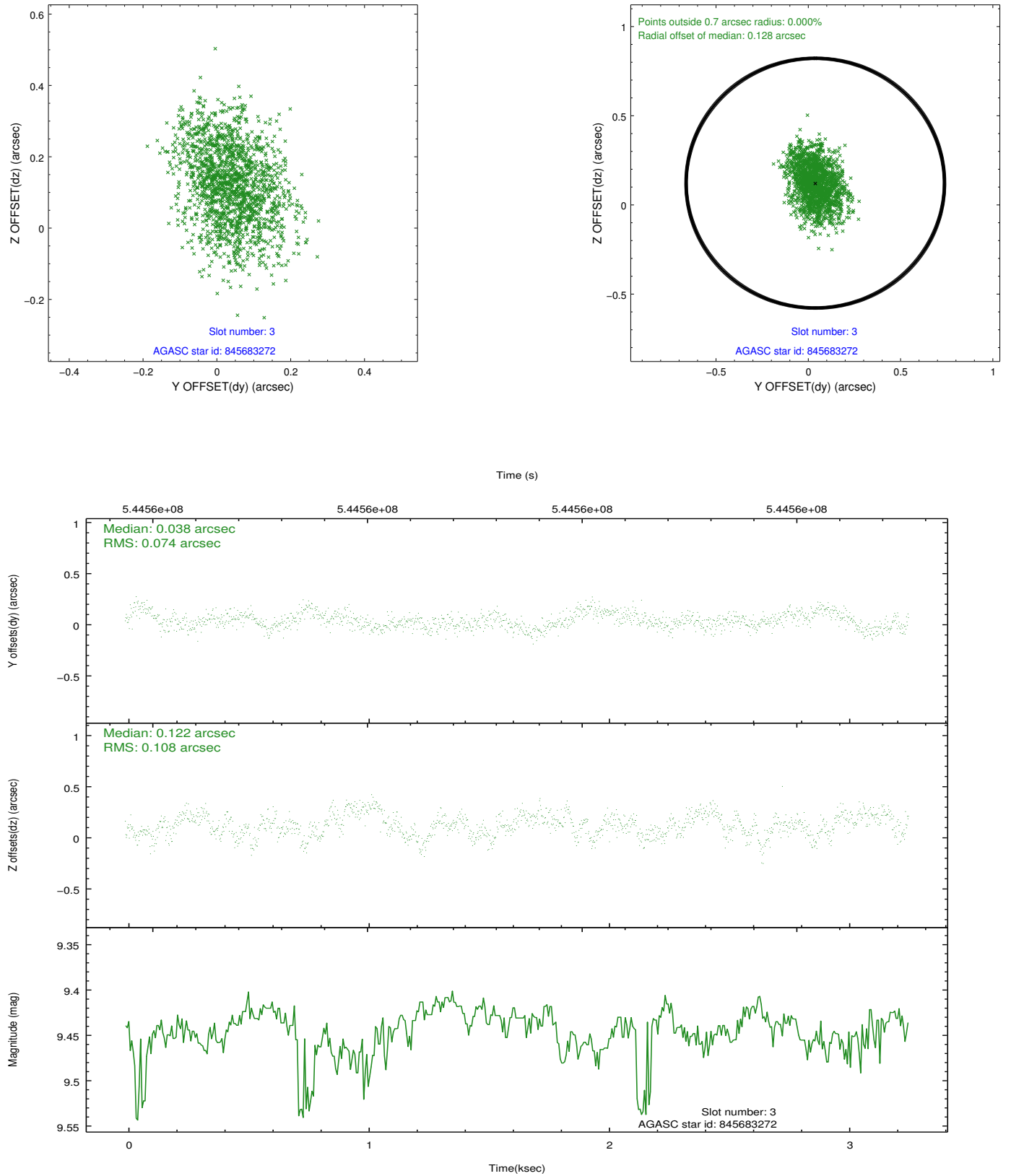


Slot Statistics

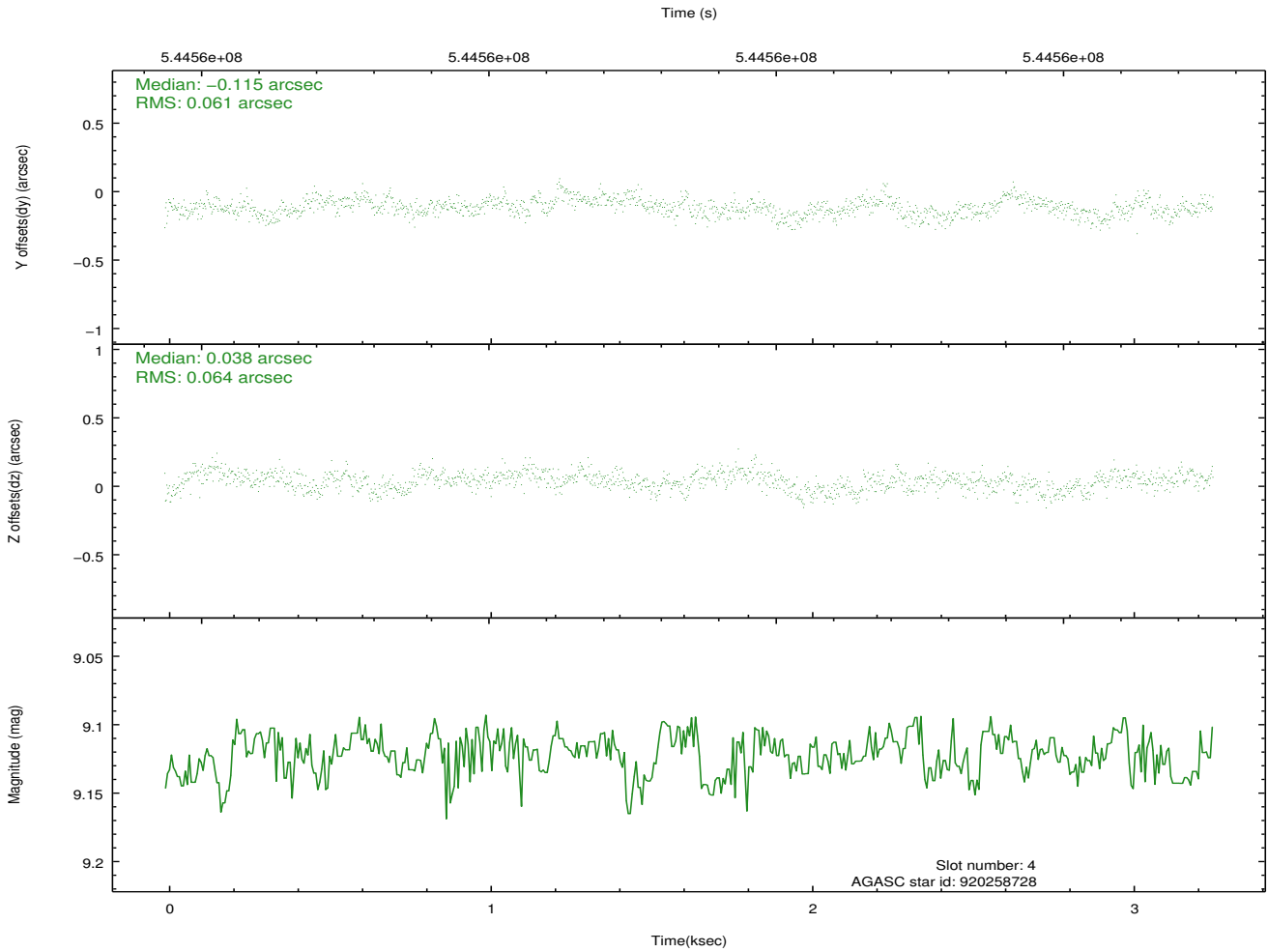
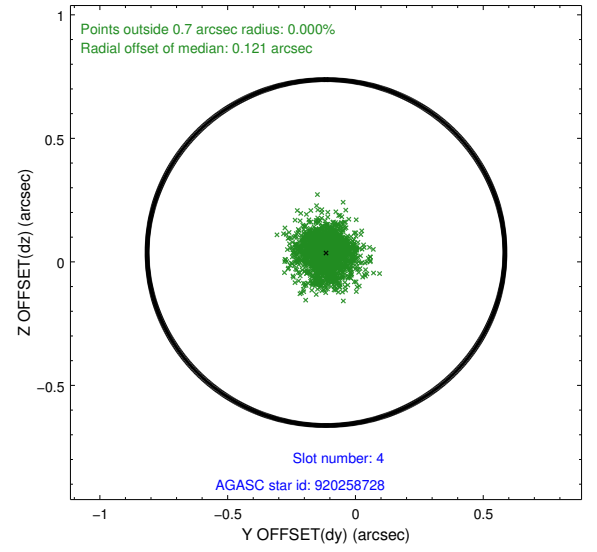
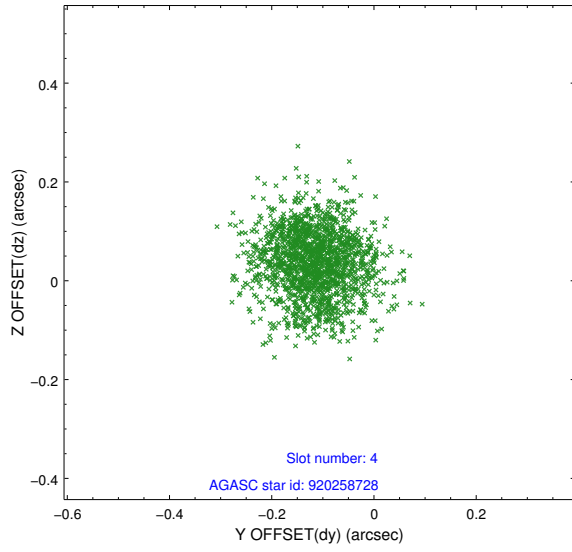
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	795	-0.075	-0.014	0.006	0.010	0.000000	0.000000	-761.26	-1736.77
1	FID		ACIS-S-4	7.05	795	0.214	0.040	0.005	0.010	0.000000	0.000000	2151.39	169.79
2	FID		ACIS-S-5	7.08	796	-0.170	-0.017	0.006	0.011	0.000000	0.000000	-1811.72	165.56
3	GUIDE	used	845683272	9.44	1590	0.038	0.122	0.141	0.225	52.662129	-29.788199	-756.76	-1413.10
4	GUIDE	used	920258728	9.12	1590	-0.115	0.038	0.095	0.154	53.470530	-30.264893	-877.30	1632.26
5	GUIDE	used	920264072	8.42	1591	-0.076	0.023	0.116	0.177	52.647891	-30.334938	846.28	-270.68
6	GUIDE	used	920259024	9.58	1587	0.084	-0.029	0.175	0.264	53.662746	-30.288270	-1161.59	2164.62
7	GUIDE	used	920263856	9.65	1589	0.054	-0.134	0.141	0.229	53.707236	-30.313261	-1172.47	2330.96

2.4 Star Slots

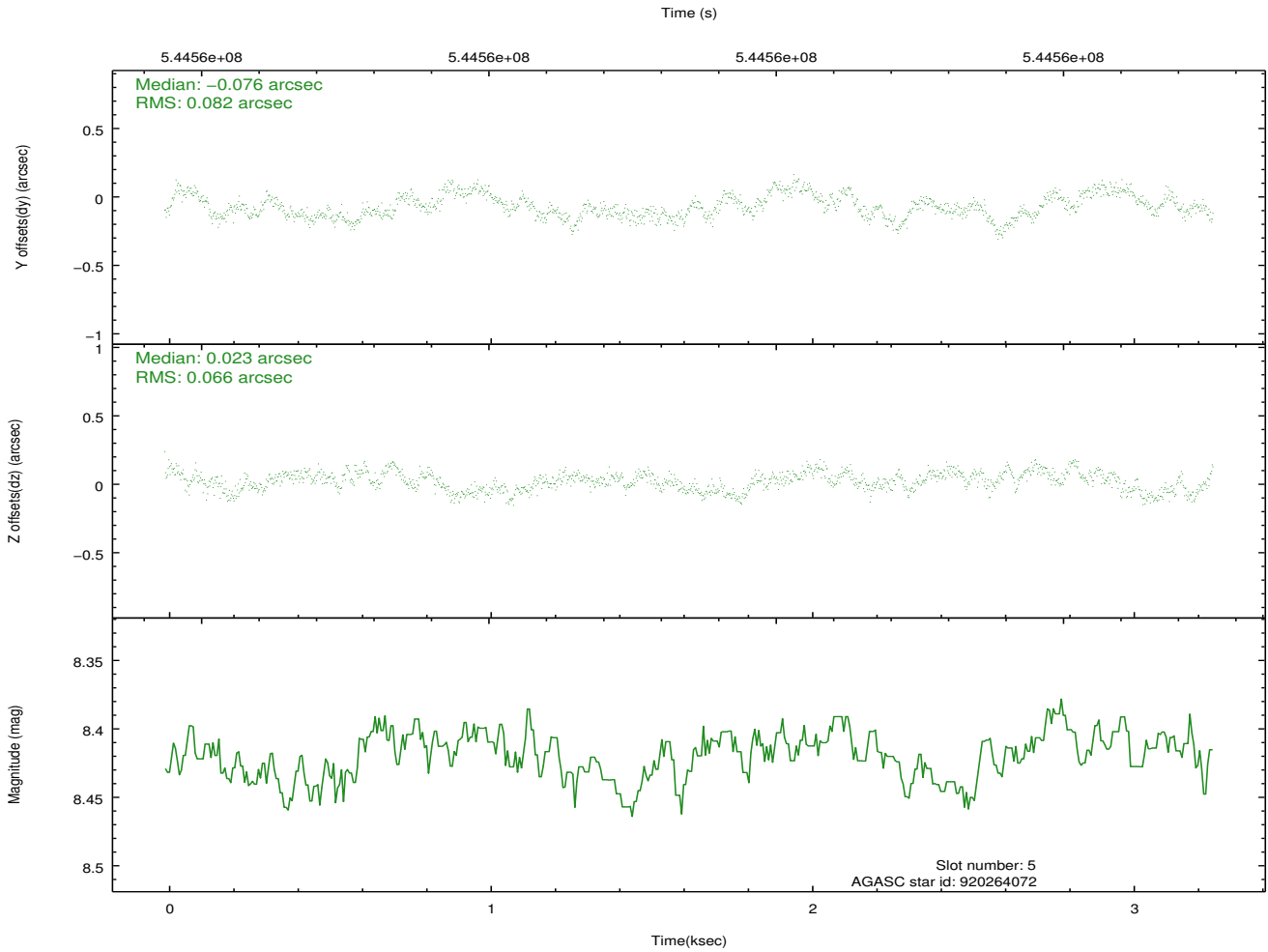
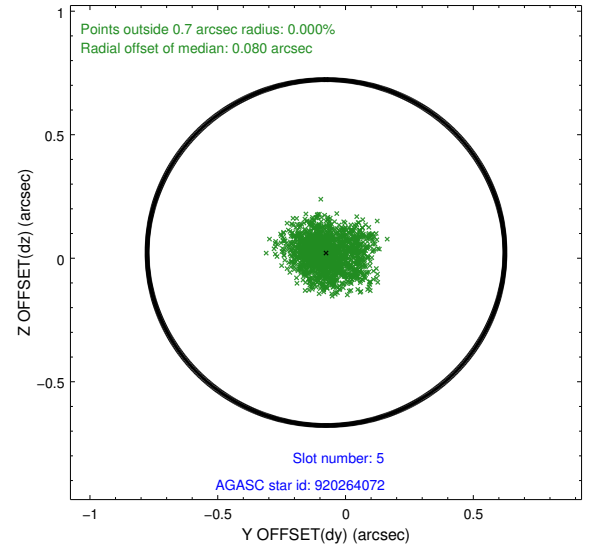
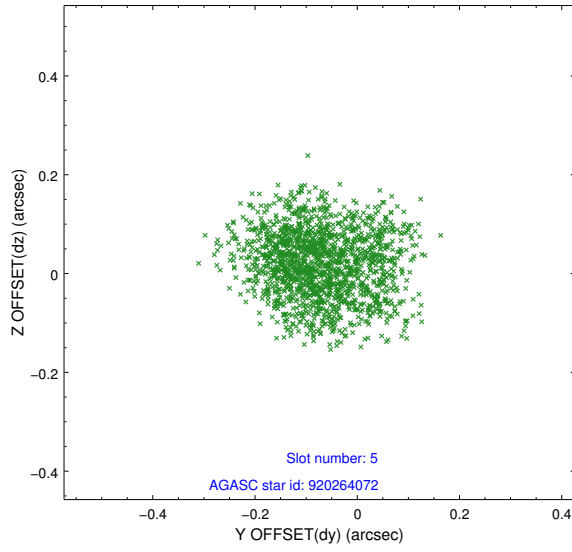
2.4.1 Slot 3



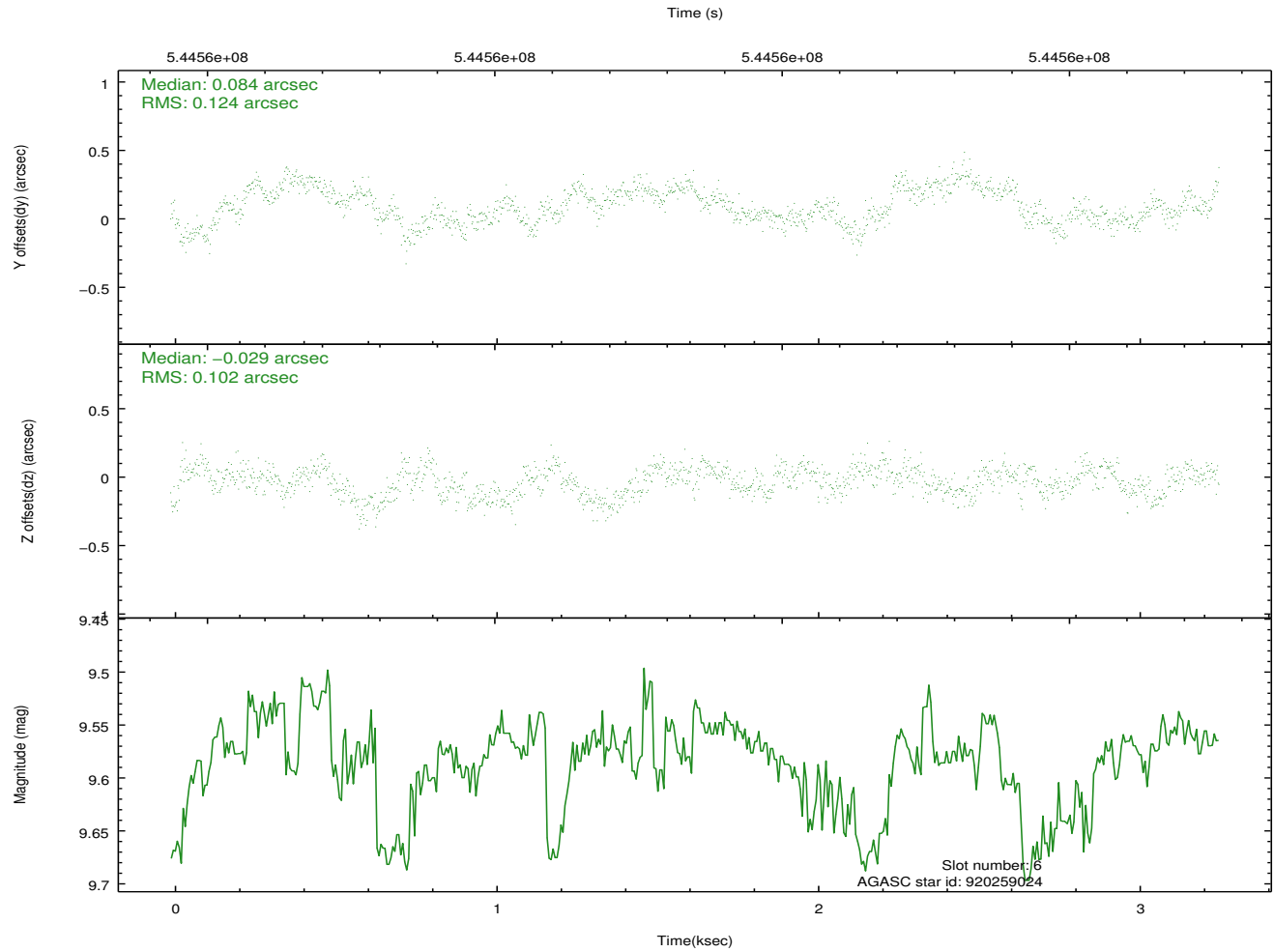
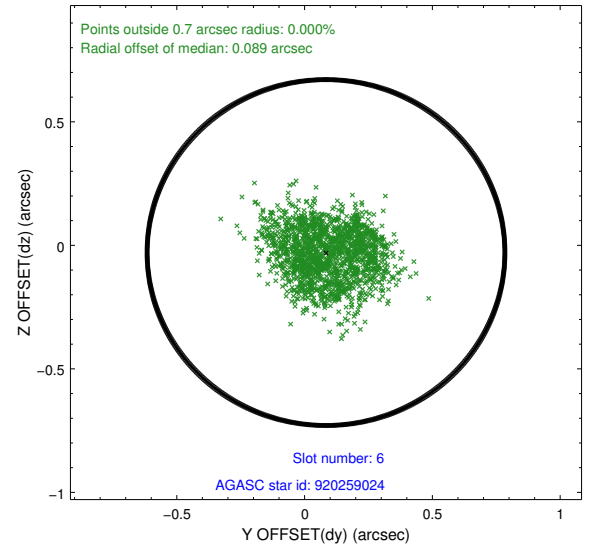
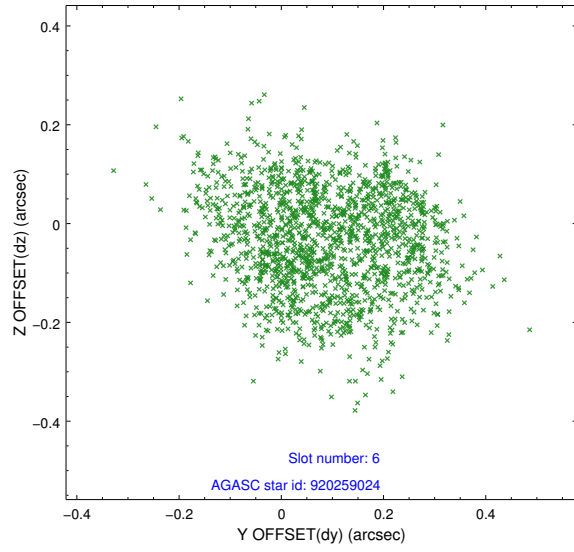
2.4.2 Slot 4



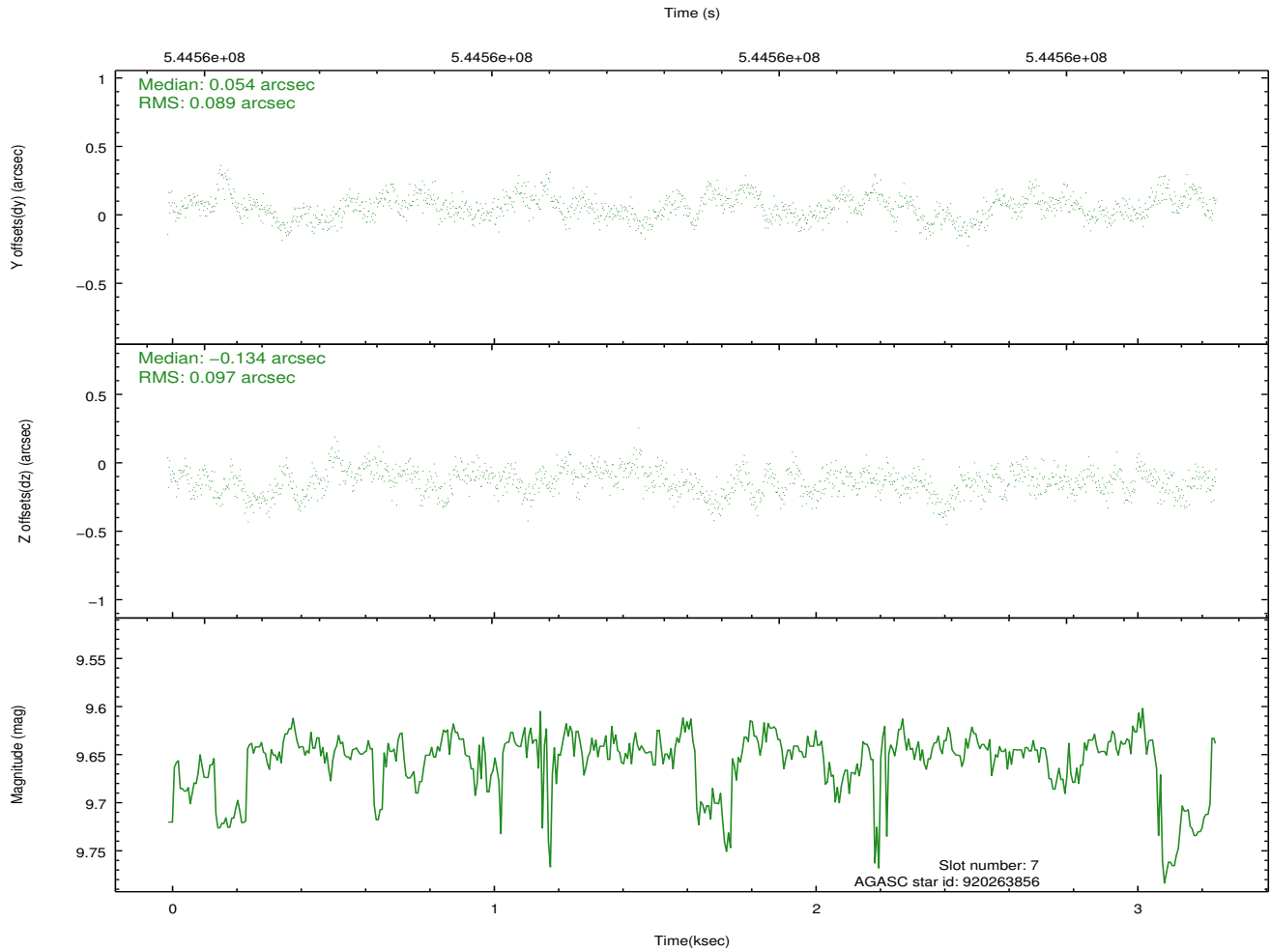
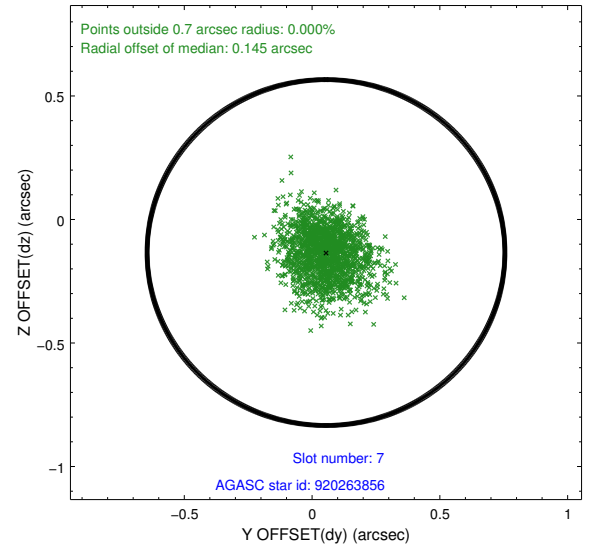
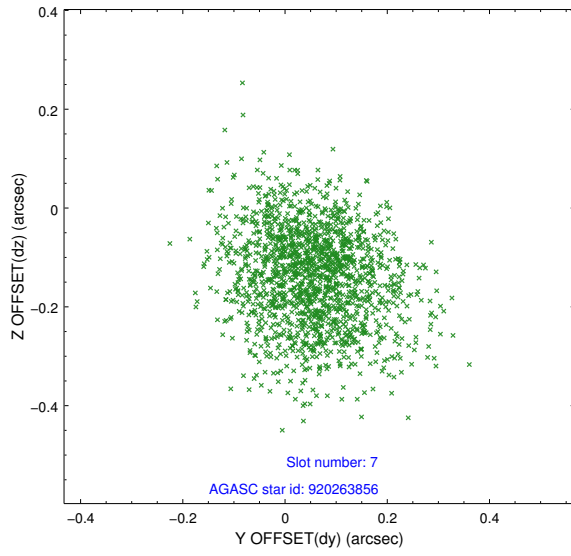
2.4.3 Slot 5



2.4.4 Slot 6

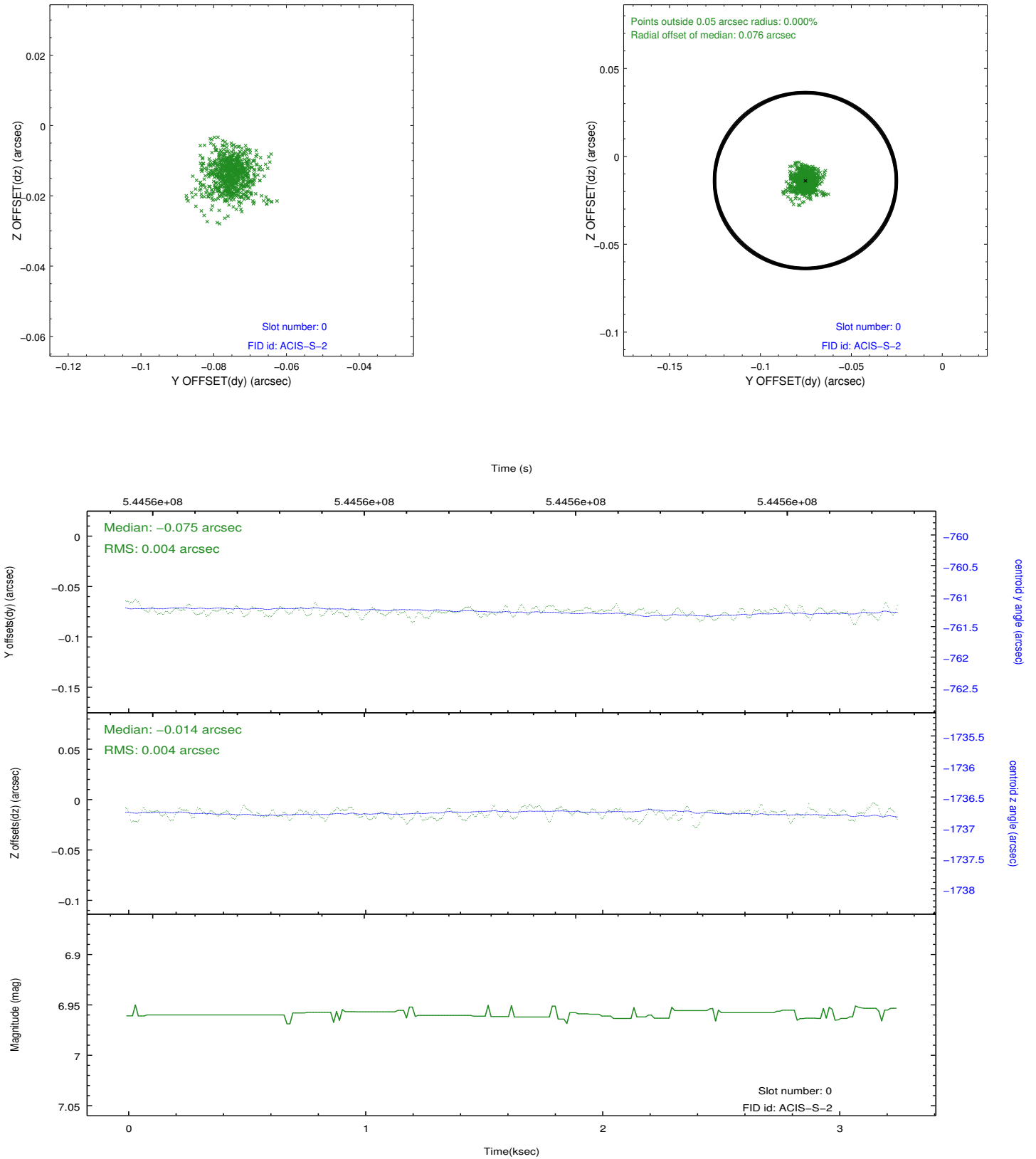


2.4.5 Slot 7

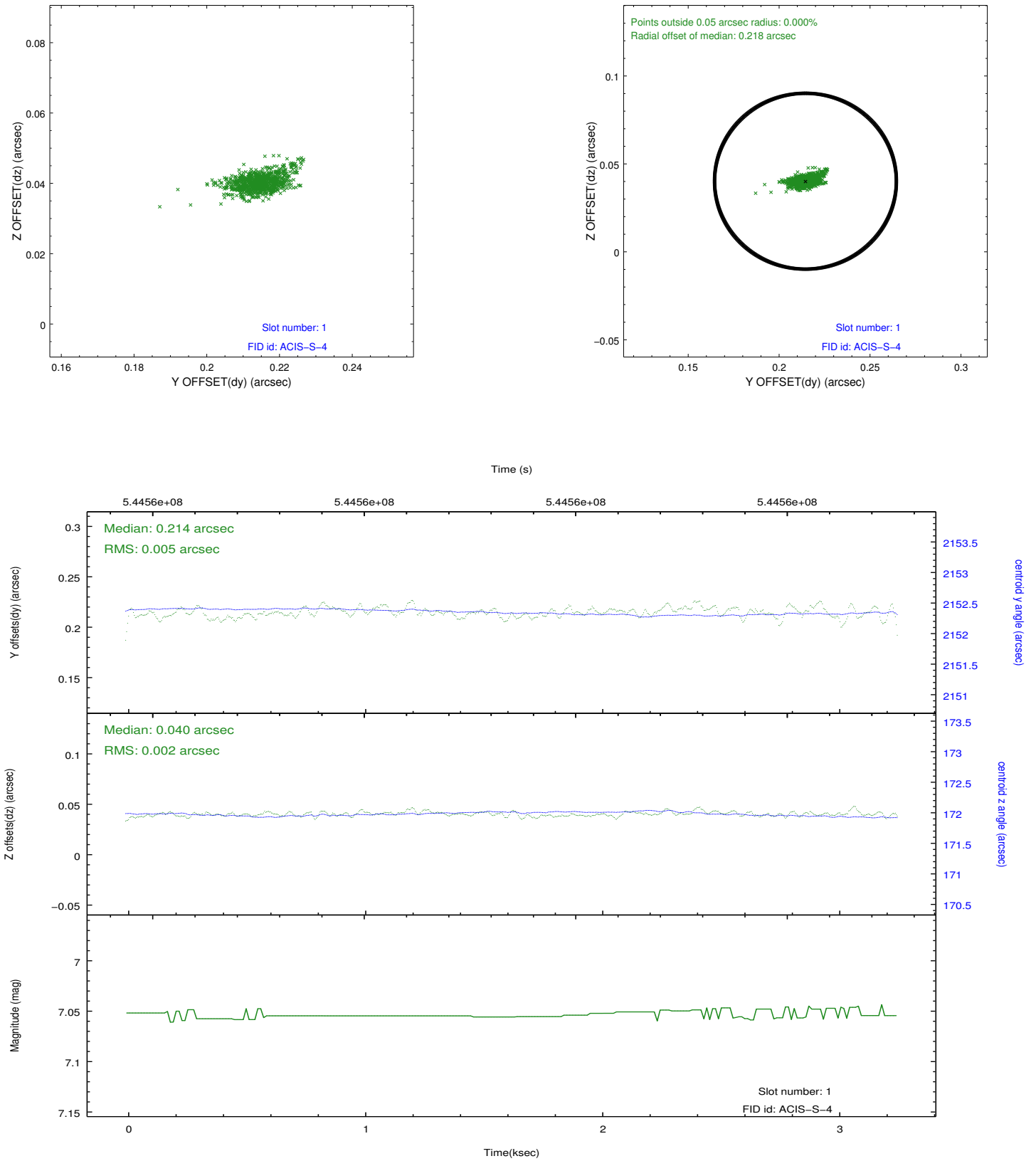


2.5 FID Slots

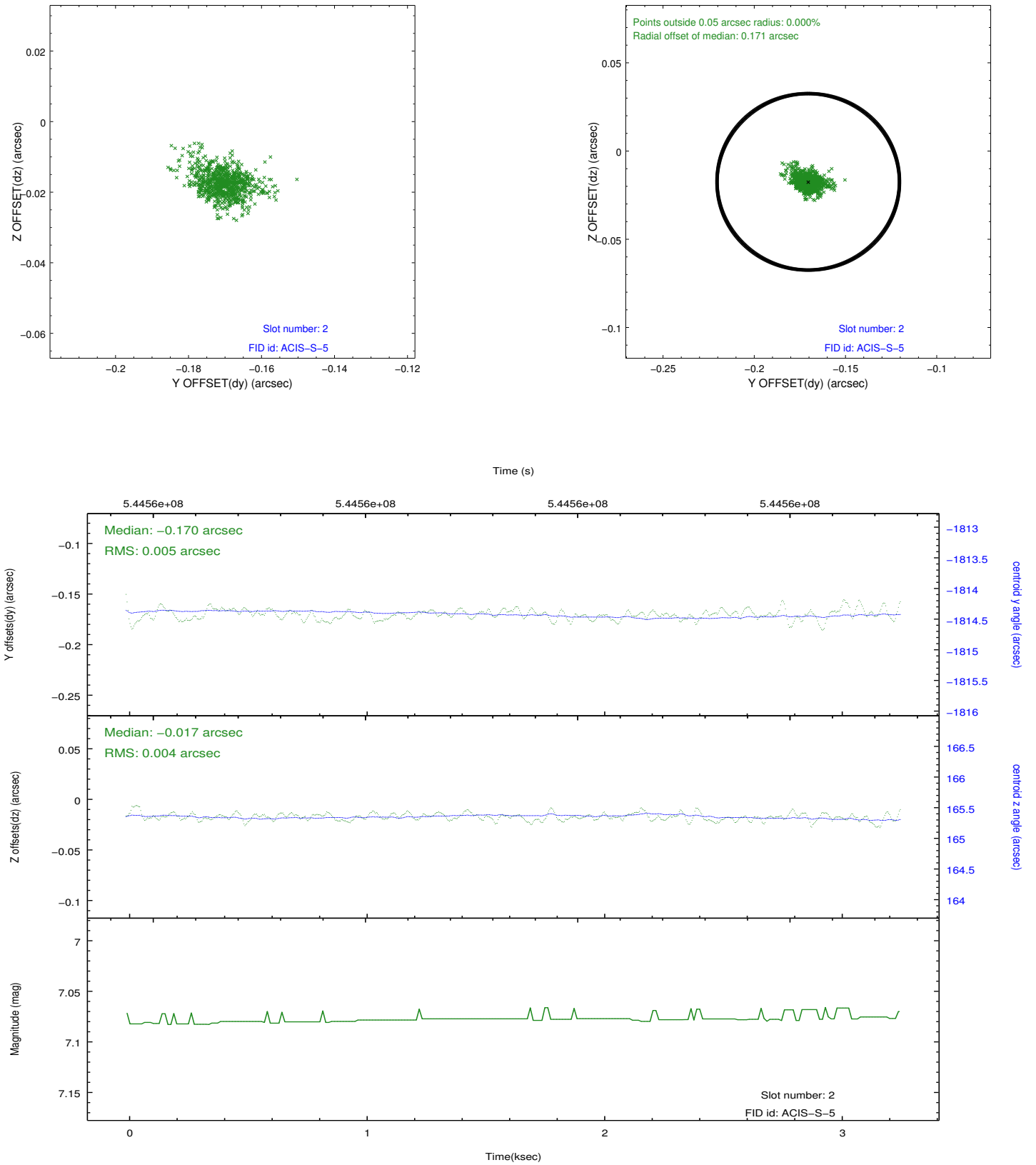
2.5.1 Slot 0



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)	2015.04.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1607460330725

A.2 Comments