

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 20782 - L2 Version 1
Chandra X-Ray Center

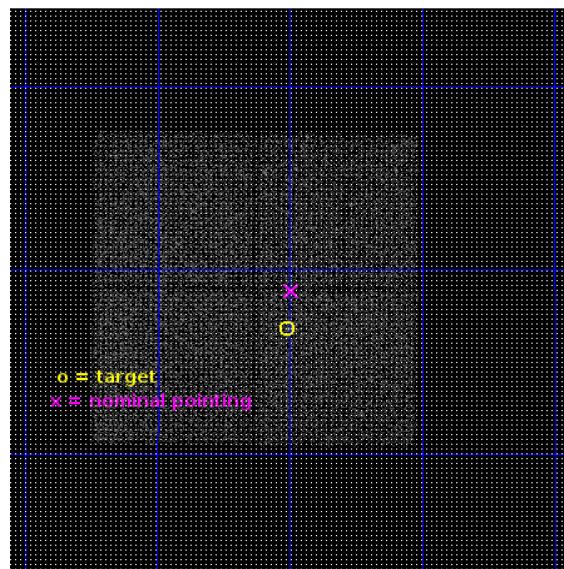
L2 Processing Date : Jan 30 2019

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1 Front

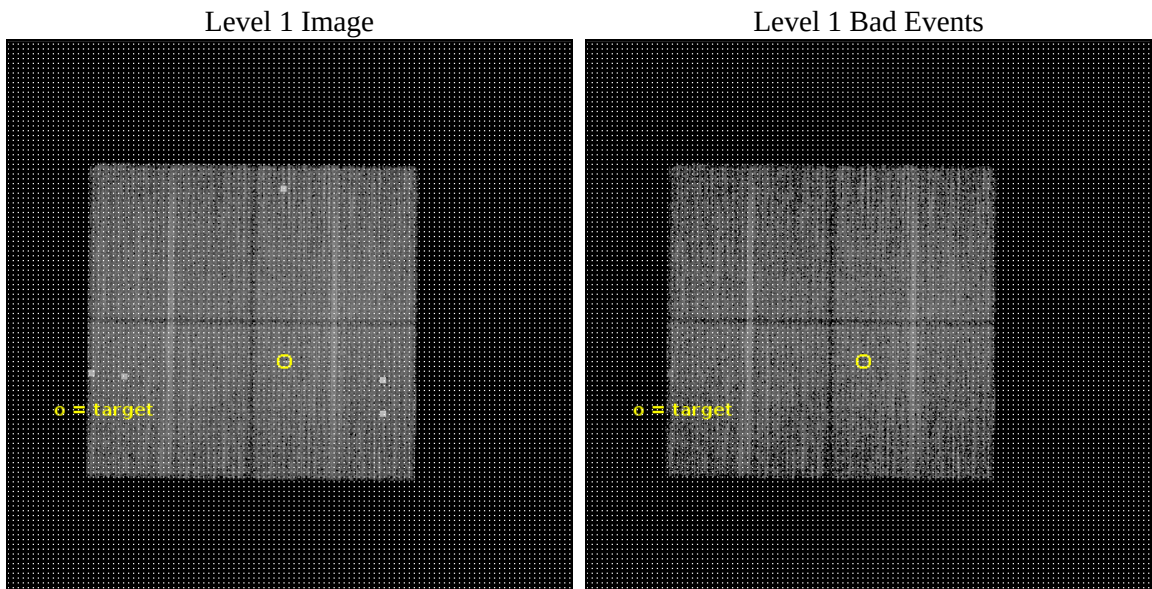
seq_num	801795	Sequence number
obs_id	20782	Observation id
title	A Chandra Snapshot of a Potential QSO-Hosting Cluster	Proposal tit
observer	Ralph Kraft	Principal investigator
object	SDSS527	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	169.8775	Observer's specified target RA [deg]
dec_targ	22.446722	Observer's specified target Dec [deg]
ra_nom	169.87353912086	Nominal RA [deg]
dec_nom	22.481275868322	Nominal Dec [deg]
roll_nom	90.610243248946	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15072.159045815	Sum of GTIs [s]
livetime	14875.23019192	Livetime [s]
ontime0	15075.300116062	Sum of GTIs [s]
ontime1	15075.300116062	Sum of GTIs [s]
ontime2	15072.159025908	Sum of GTIs [s]
ontime3	15072.159045815	Sum of GTIs [s]
l2events	43598	Number of level 2 events



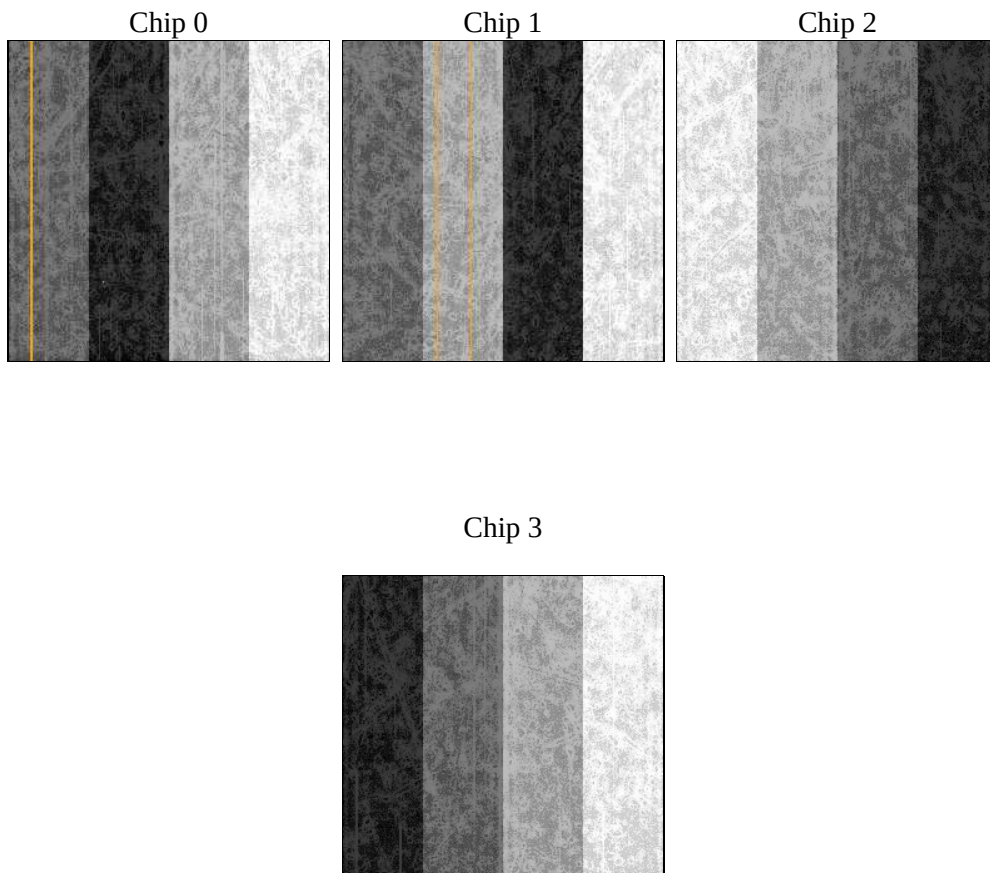
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	15072.159045815	Sum of GTIs [s]
caldsver	4.8.2	 	ontime0	15075.300116062	Sum of GTIs [s]
date	2019-01-30T19:27:07	Date and time of file creation	ontime1	15075.300116062	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15072.159025908	Sum of GTIs [s]
			ontime3	15072.159045815	Sum of GTIs [s]
			l1events	467696	Number of level 1 events

2.1.4 Events

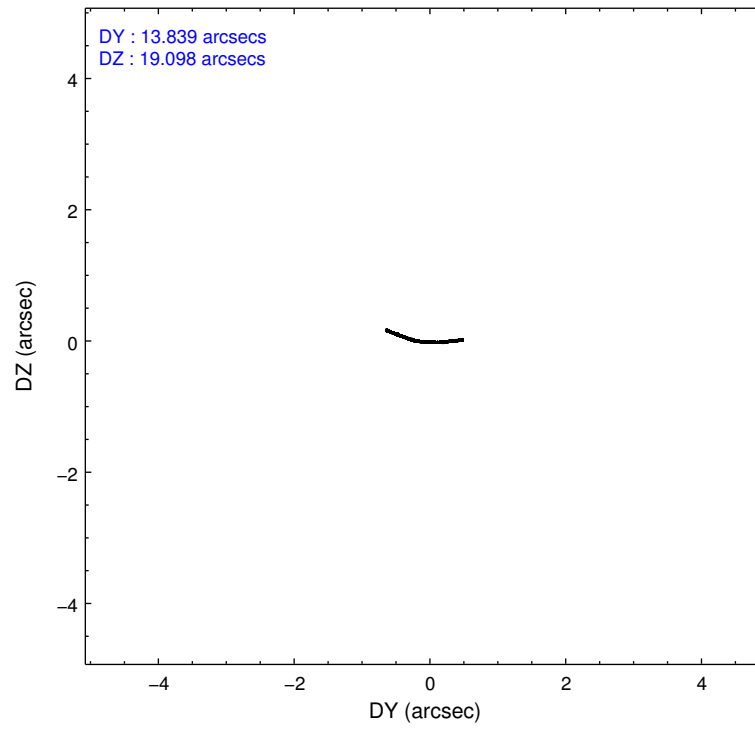
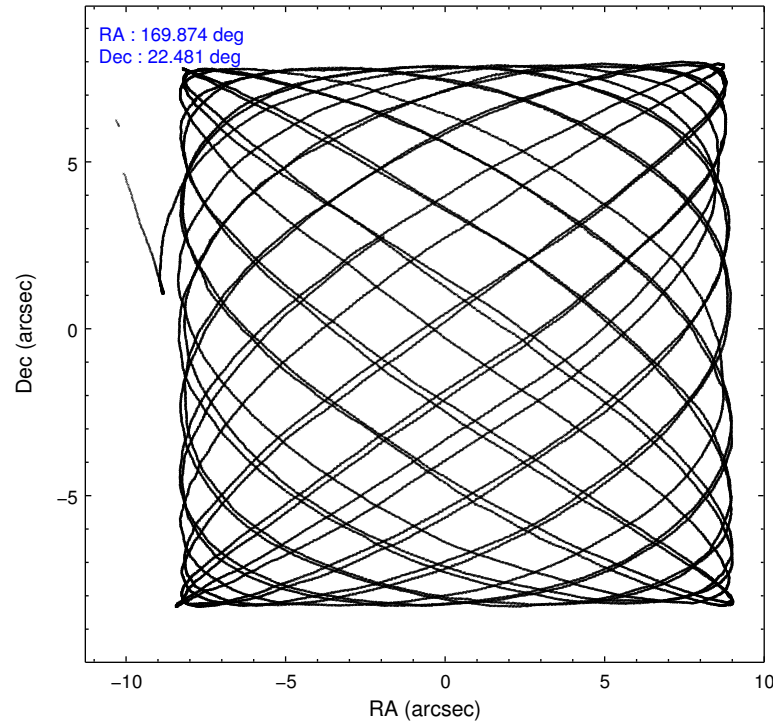
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	106494	115610	124075	121517
rejected events	93789	97485	107595	100055
rejected %	88%	84%	86%	82%

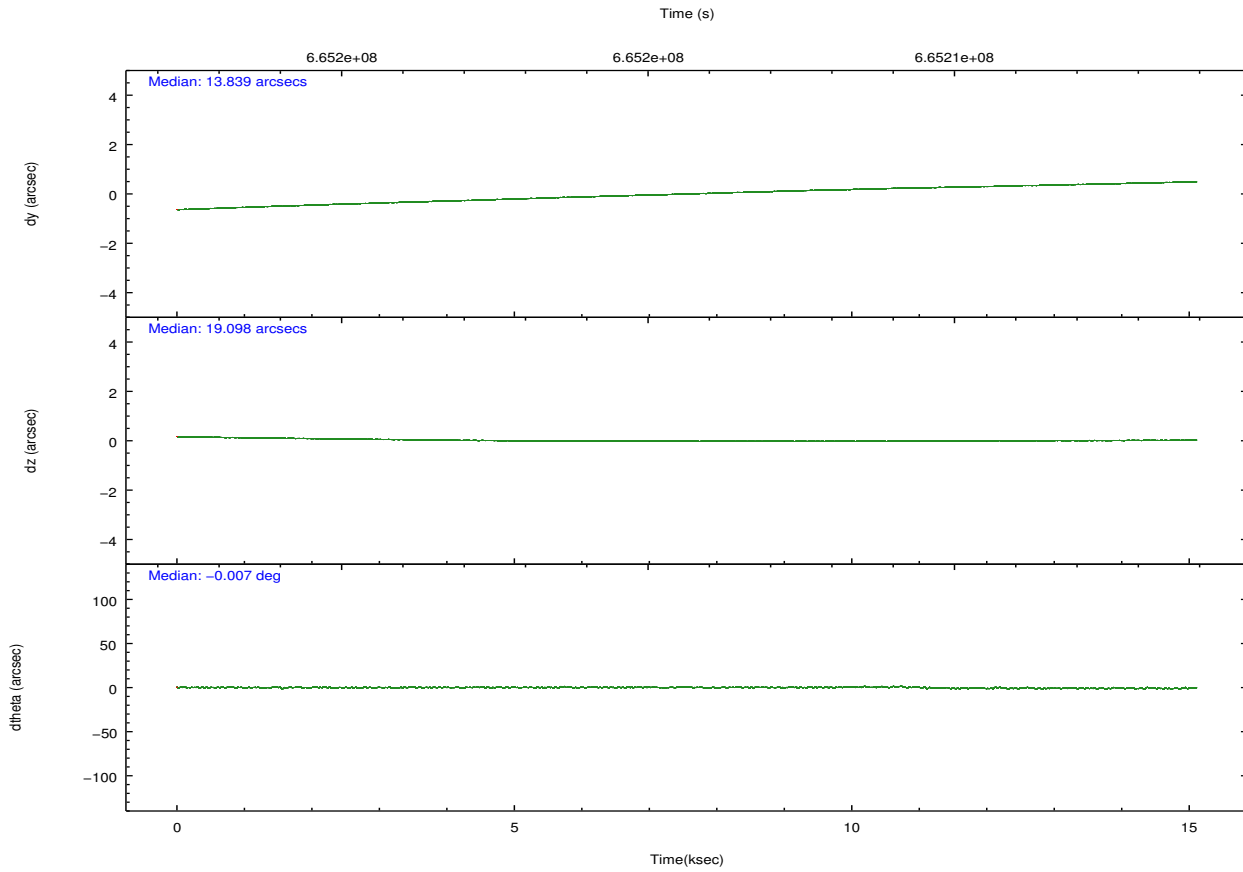
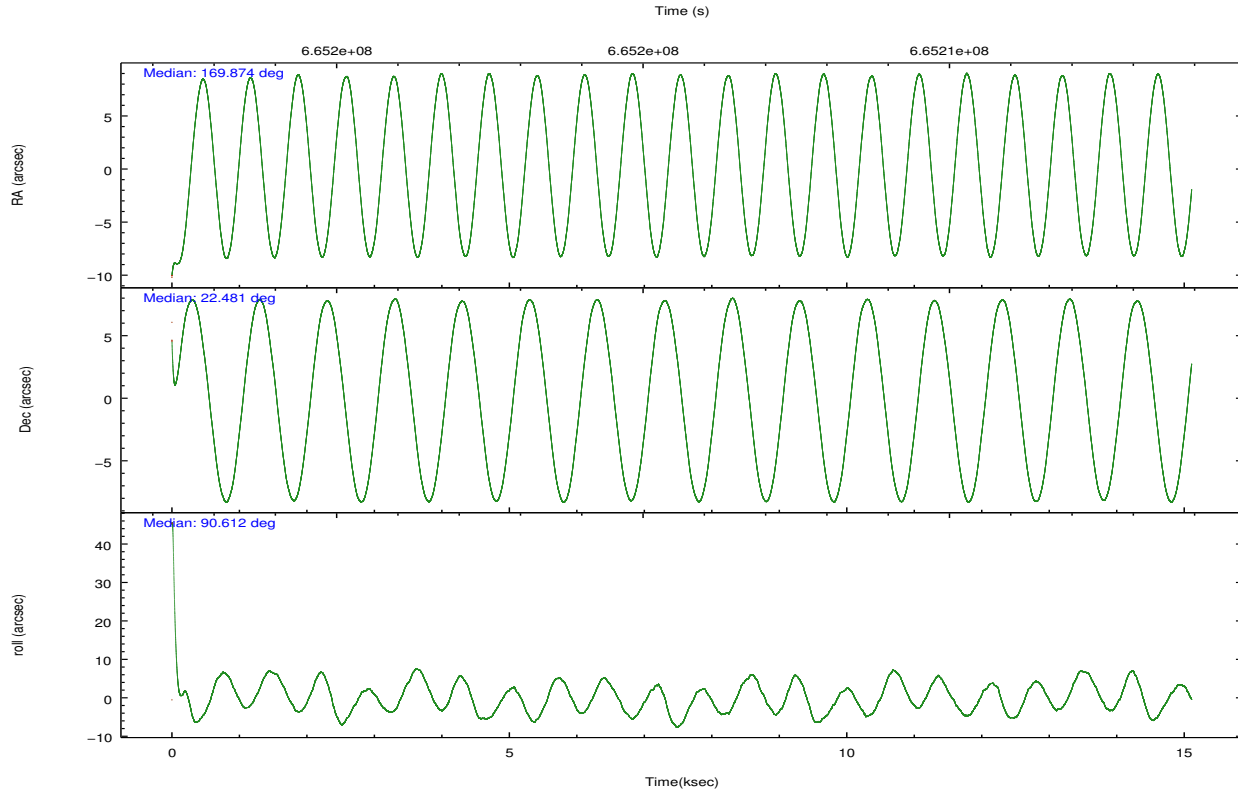
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4215	6623	8506	5324
	3%	5%	6%	4%
grade 1 events	54	82	106	131
	0%	0%	0%	0%
grade 2 events	3156	5790	2996	10777
	2%	5%	2%	8%
grade 3 events	1334	1279	1285	1346
	1%	1%	1%	1%
grade 4 events	1197	1184	1276	1324
	1%	1%	1%	1%
grade 5 events	4687	4957	4498	5355
	4%	4%	3%	4%
grade 6 events	2811	3258	2420	2695
	2%	2%	1%	2%
grade 7 events	89040	92437	102988	94565
	83%	79%	83%	77%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	169.888886	169.8735391208566	CCD I2 on	Y	Y
[deg] Pointing Dec	22.457563	22.48127586832226	CCD I3 on	Y	Y
[deg] Pointing Roll	90.395647	90.61024324894571	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	N
[mm] SIM translation stage pos	-230.082463	-230.0875075610572	CCD S3 on	N	N
[mm] SIM translation stage offset	-3.51	-3.504945441872508	CCD S4 on	N	N
[s] Observation start time (MET)	665198178.184000	665196666.0869499	CCD S5 on	N	N
Observation start date	2019-01-30T01:15:09	2019-01-30T00:51:06	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	665213178.184000	665214166.938	On-chip summing requested	N	N
Observation end date	2019-01-30T05:25:09	2019-01-30T05:42:46	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



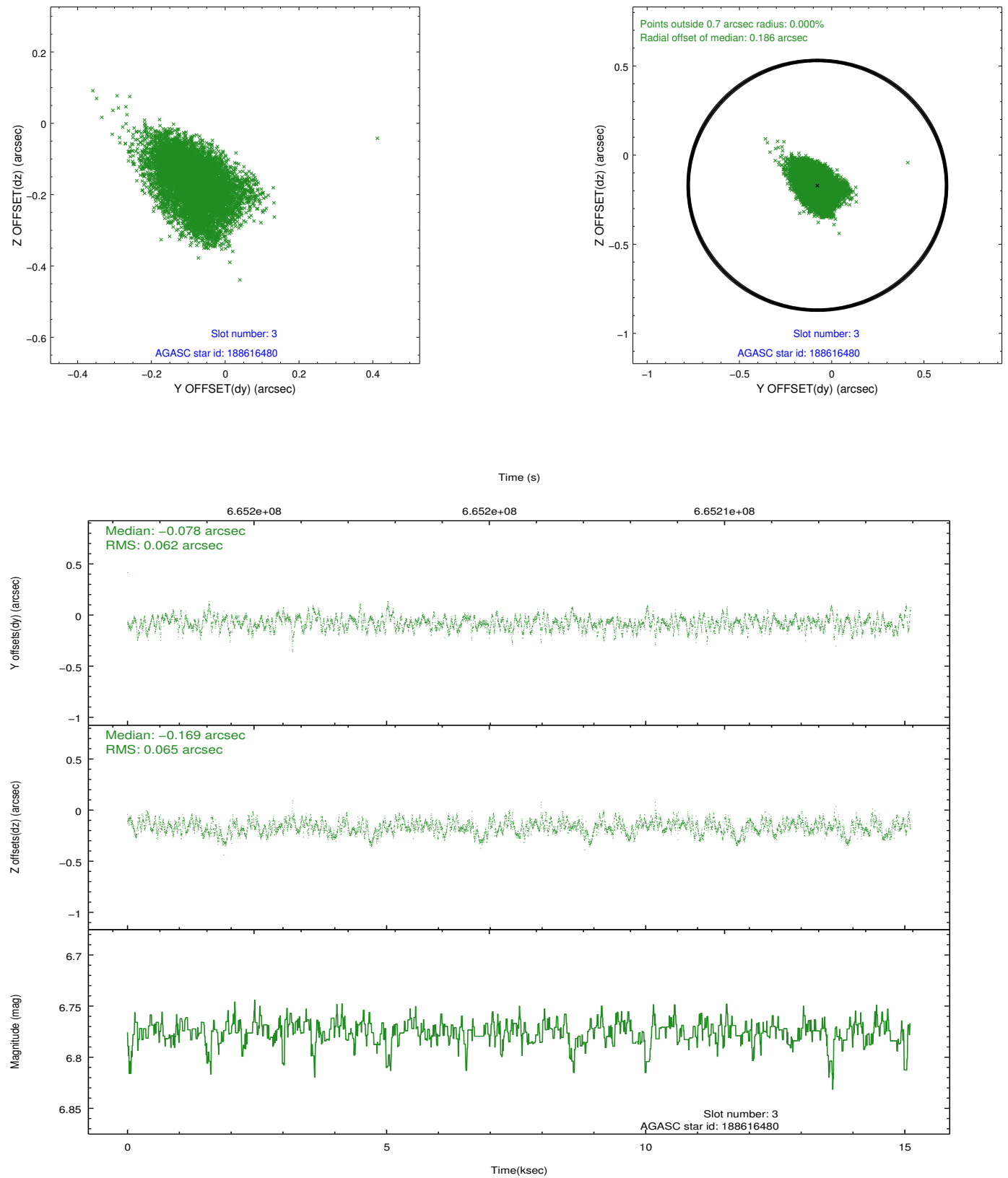


Slot Statistics

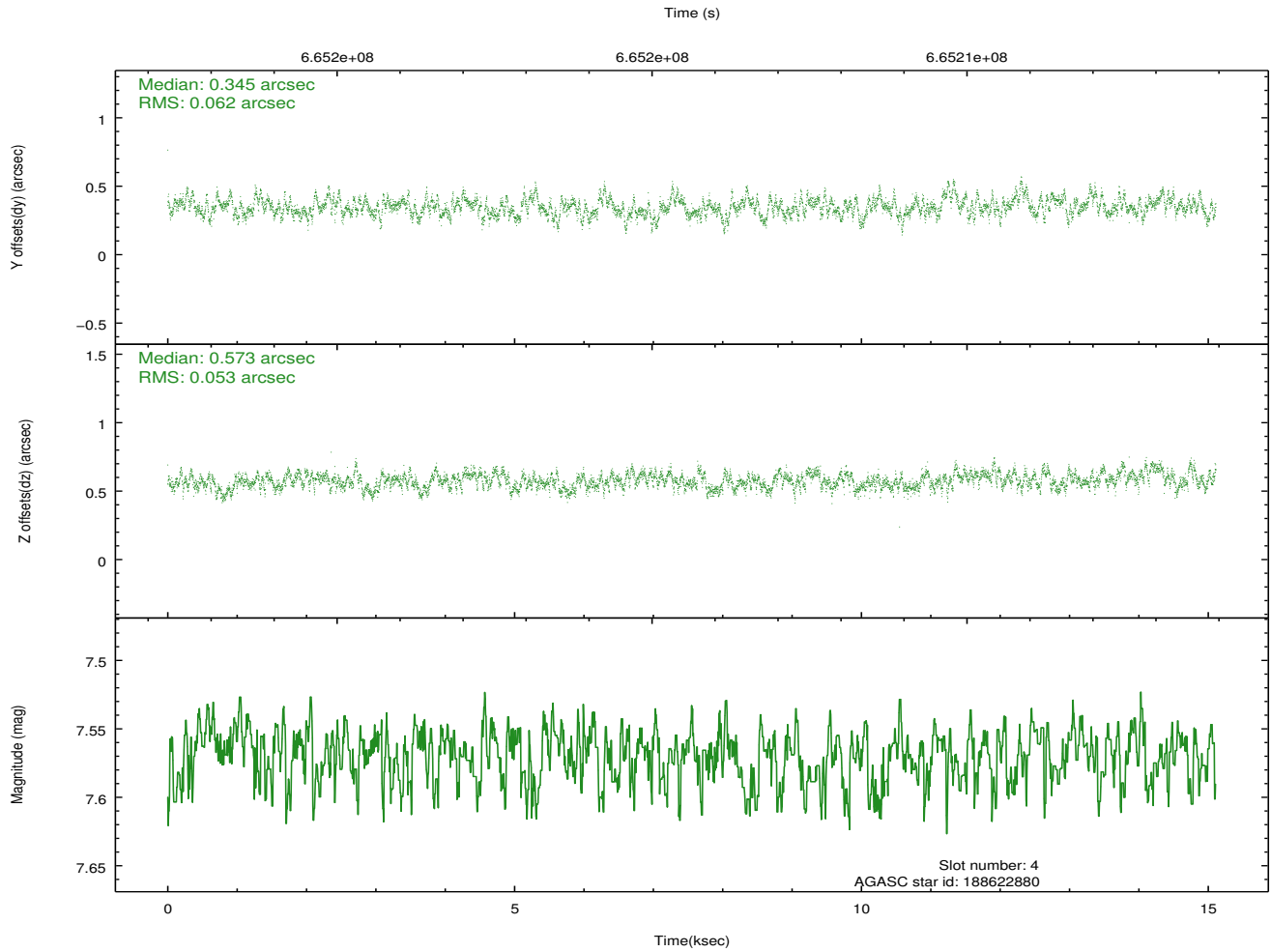
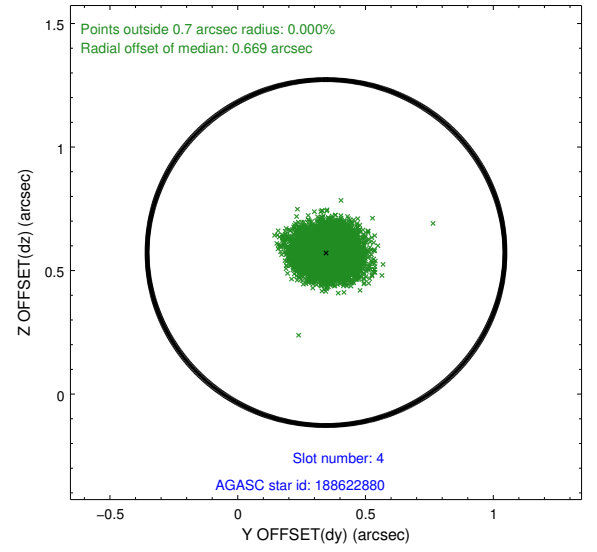
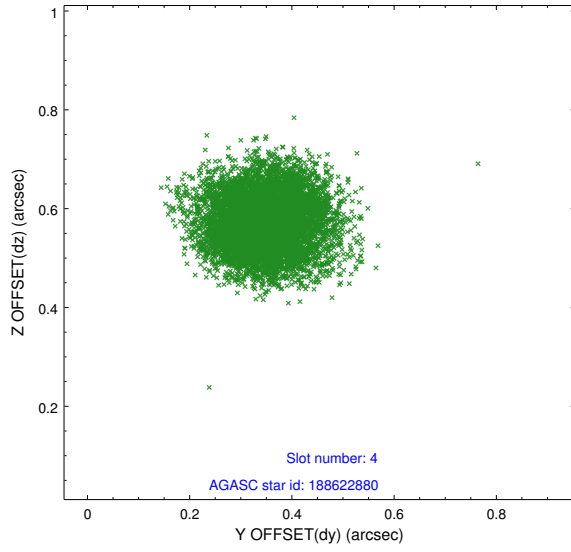
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.26	3685	1.000	0.155	-0.186	0.010	0.017	0.000000	0.000000	925.85	-914
1	FID		ACIS-I-5	7.21	3685	1.000	-0.557	0.034	0.011	0.019	0.000000	0.000000	-1822.97	982
2	FID		ACIS-I-6	7.23	3686	1.000	0.309	0.224	0.013	0.023	0.000000	0.000000	391.00	1627
3	GUIDE	used	188616480	6.78	7372	1.000	-0.078	-0.169	0.095	0.154	169.505757	22.179948	-989.13	1284
4	GUIDE	used	188622880	7.57	7372	1.000	0.345	0.573	0.087	0.139	170.025103	21.913955	-1960.39	-440
5	GUIDE	used	259669904	9.12	7365	1.000	0.236	0.257	0.181	0.291	170.457578	22.685196	809.98	-1894
6	GUIDE	used	259670032	7.55	7371	1.000	-0.529	-0.644	0.075	0.132	169.354718	22.827854	1348.05	1762
7	GUIDE	used	259672768	8.89	7364	1.000	0.033	-0.008	0.168	0.263	169.971255	23.035236	2077.83	-286

2.4 Star Slots

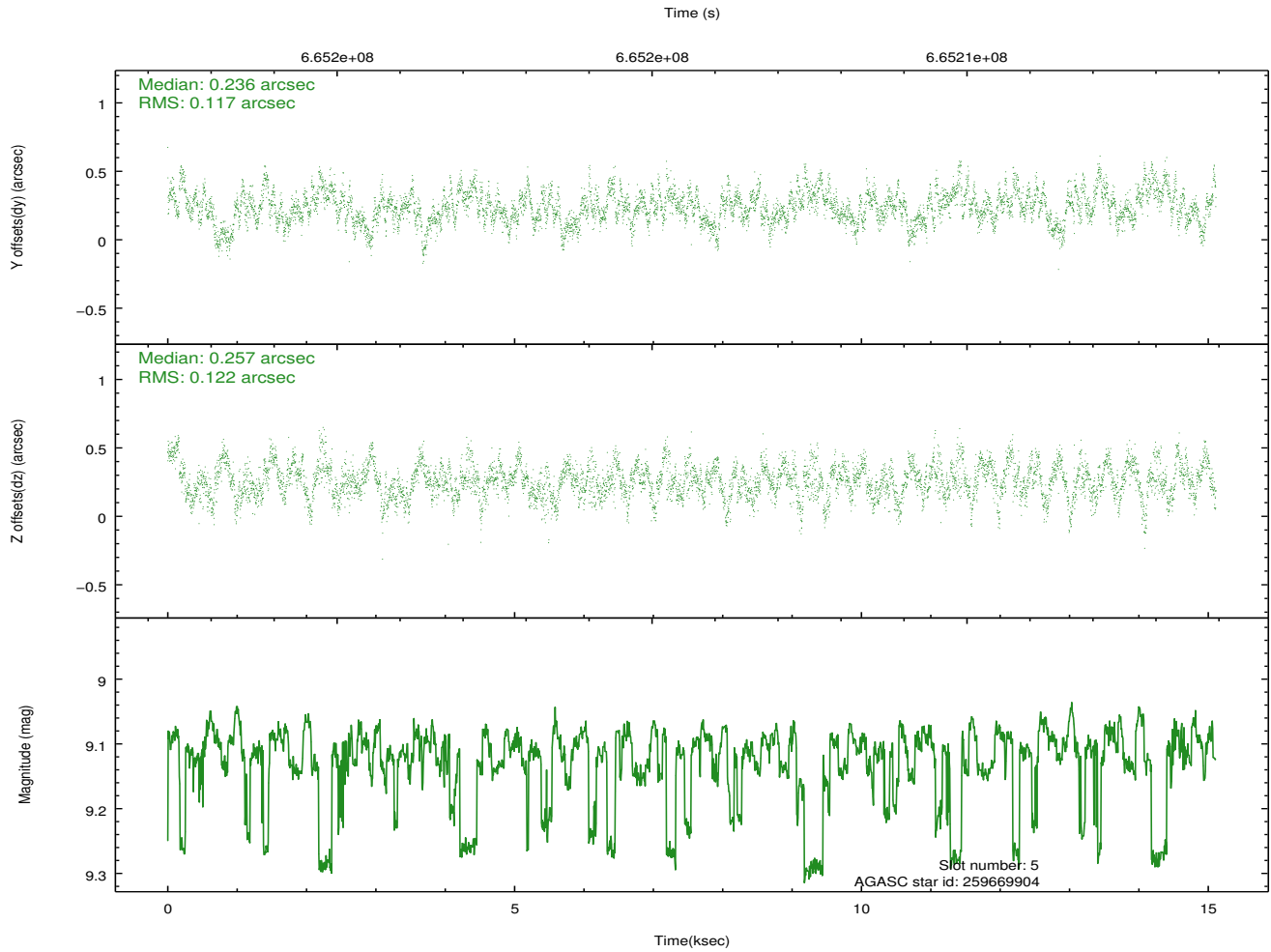
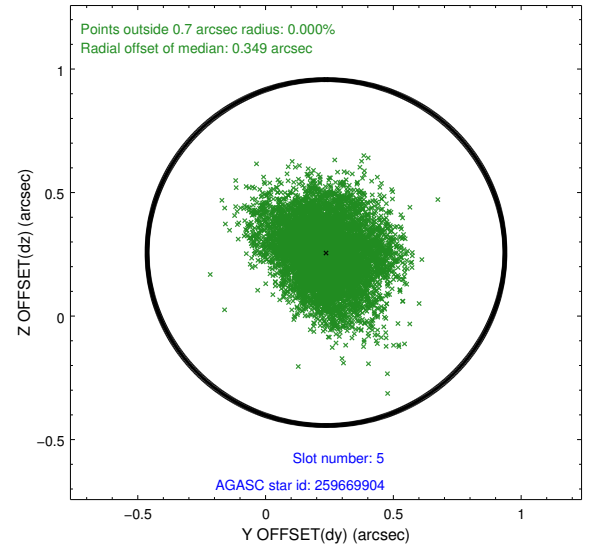
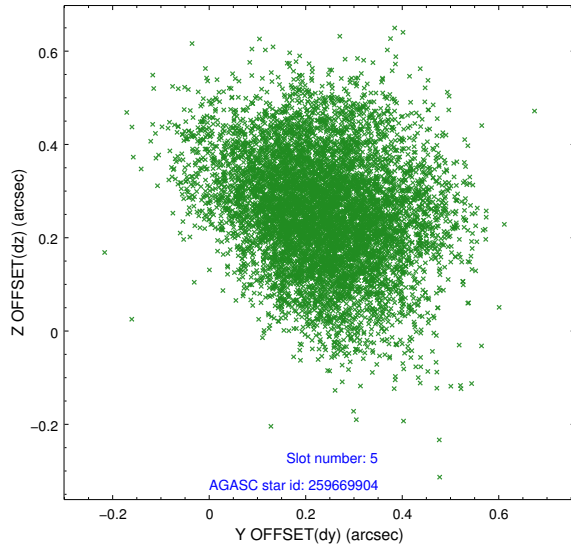
2.4.1 Slot 3



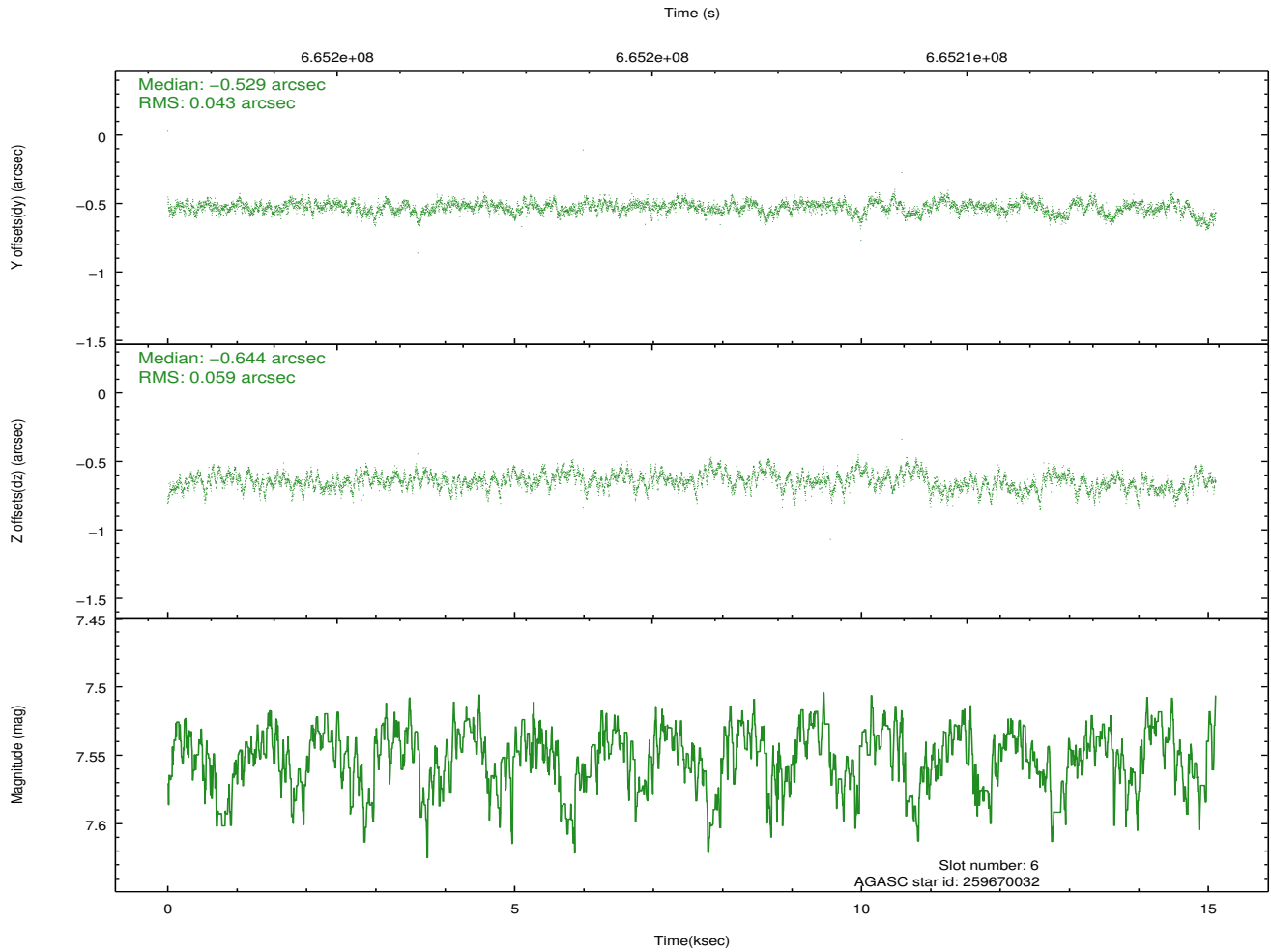
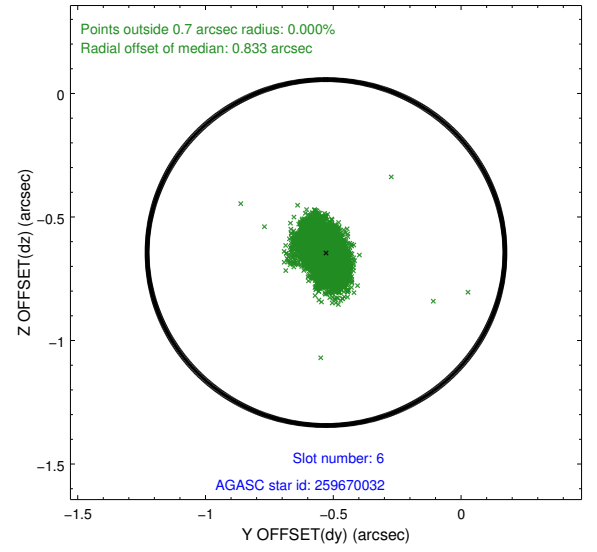
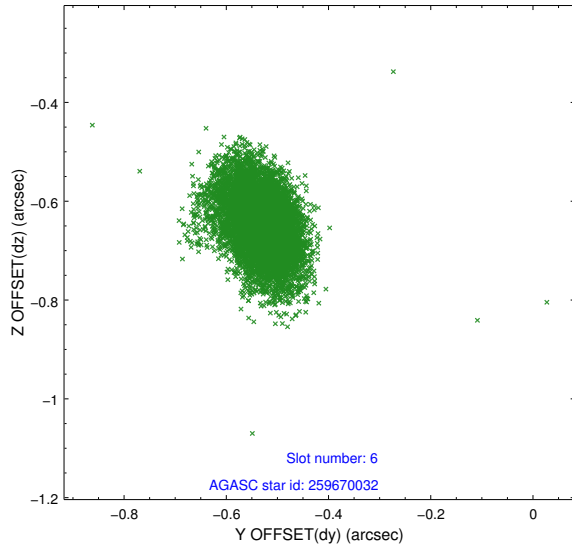
2.4.2 Slot 4



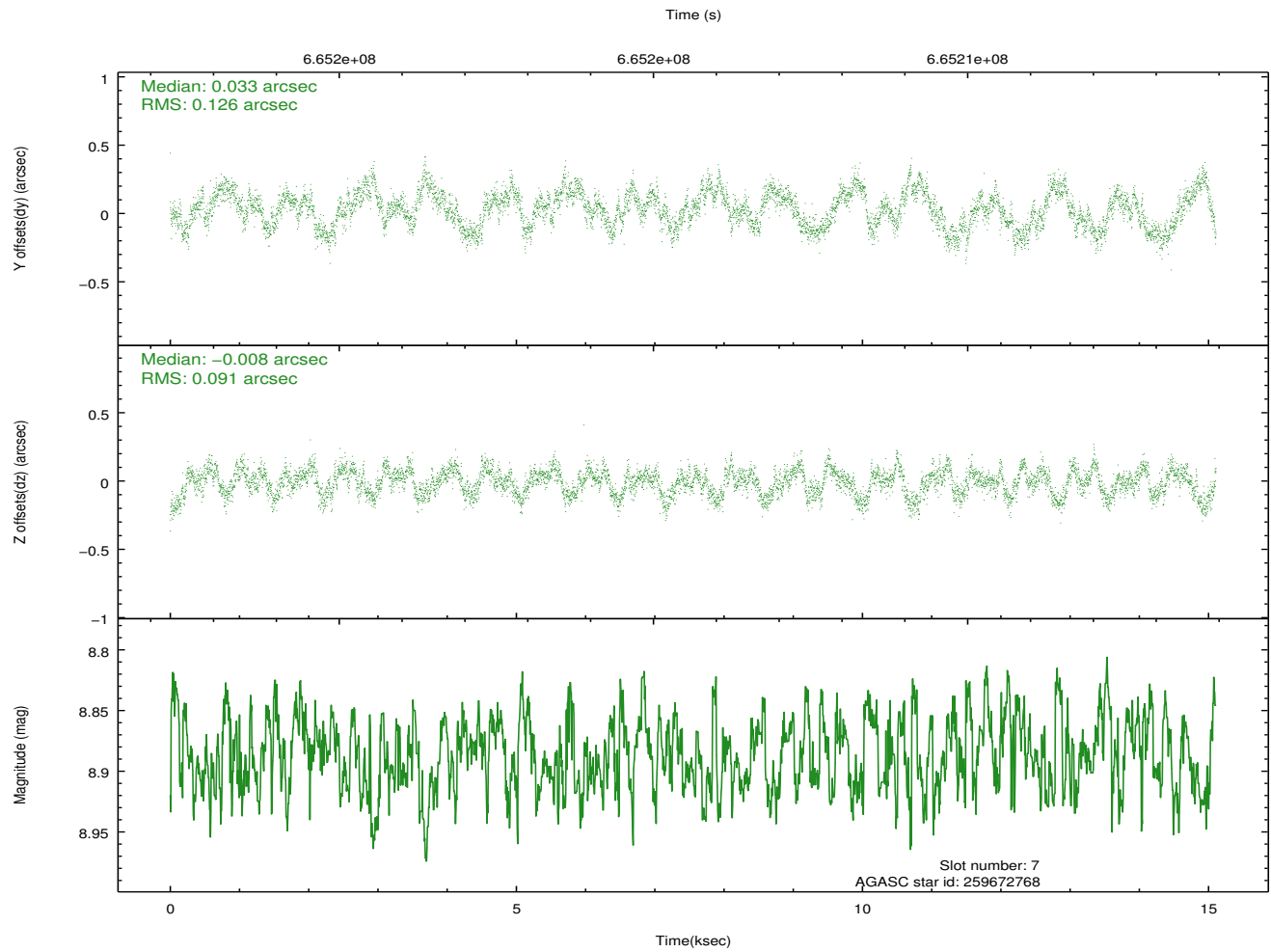
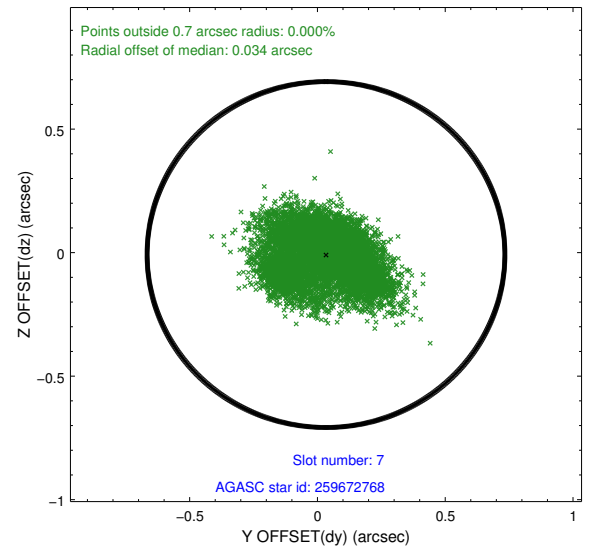
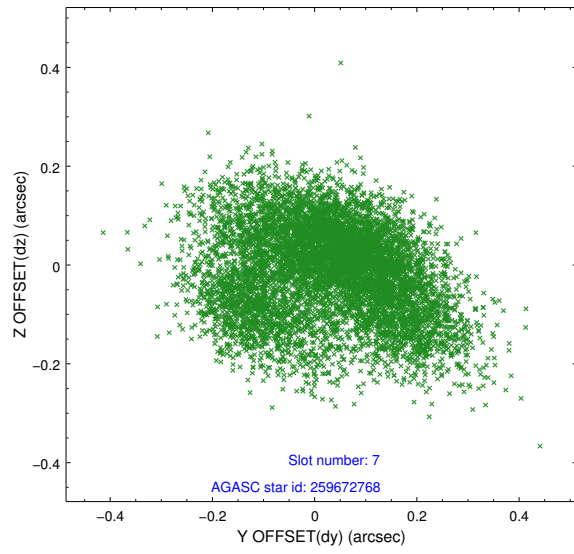
2.4.3 Slot 5



2.4.4 Slot 6

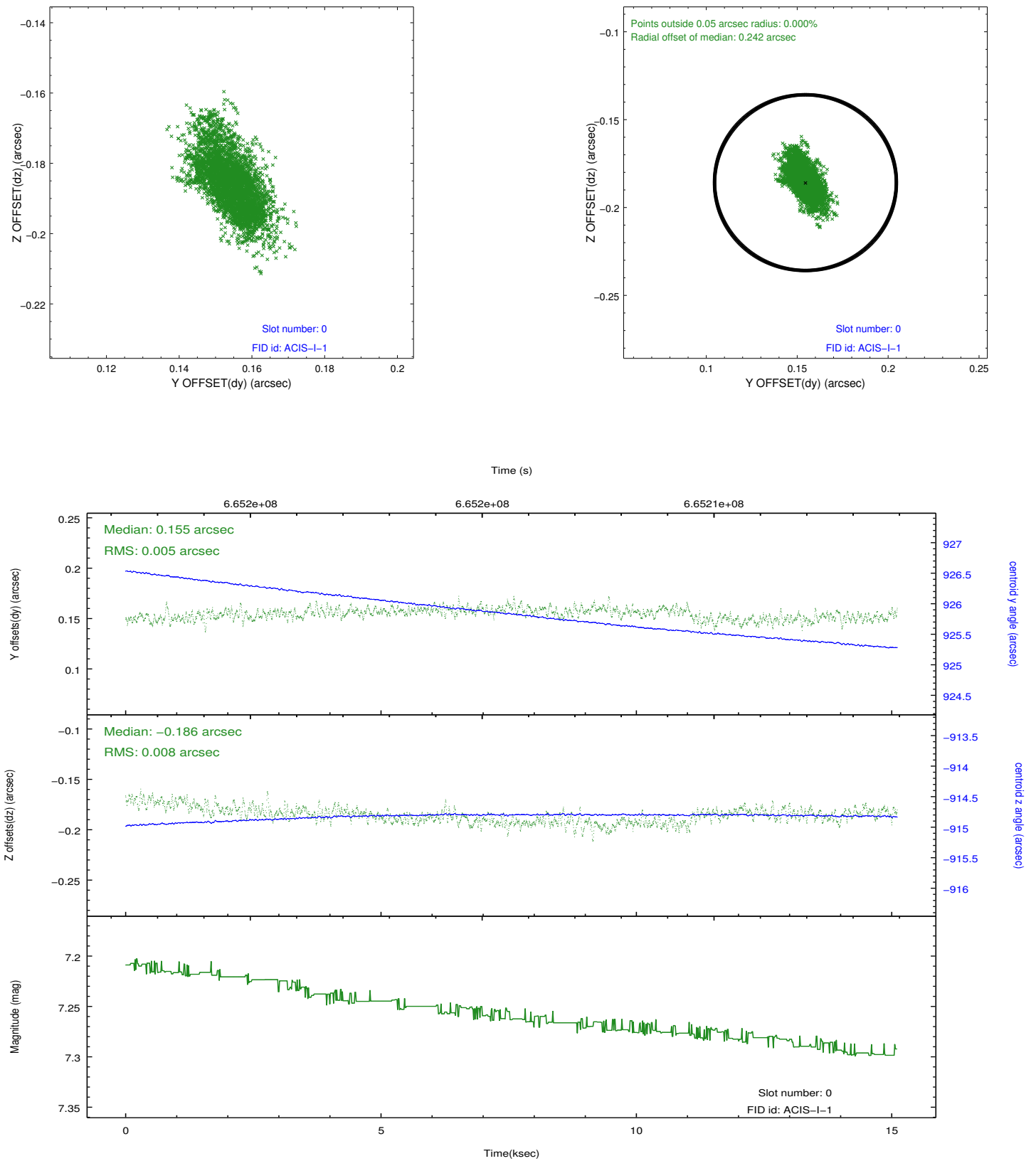


2.4.5 Slot 7

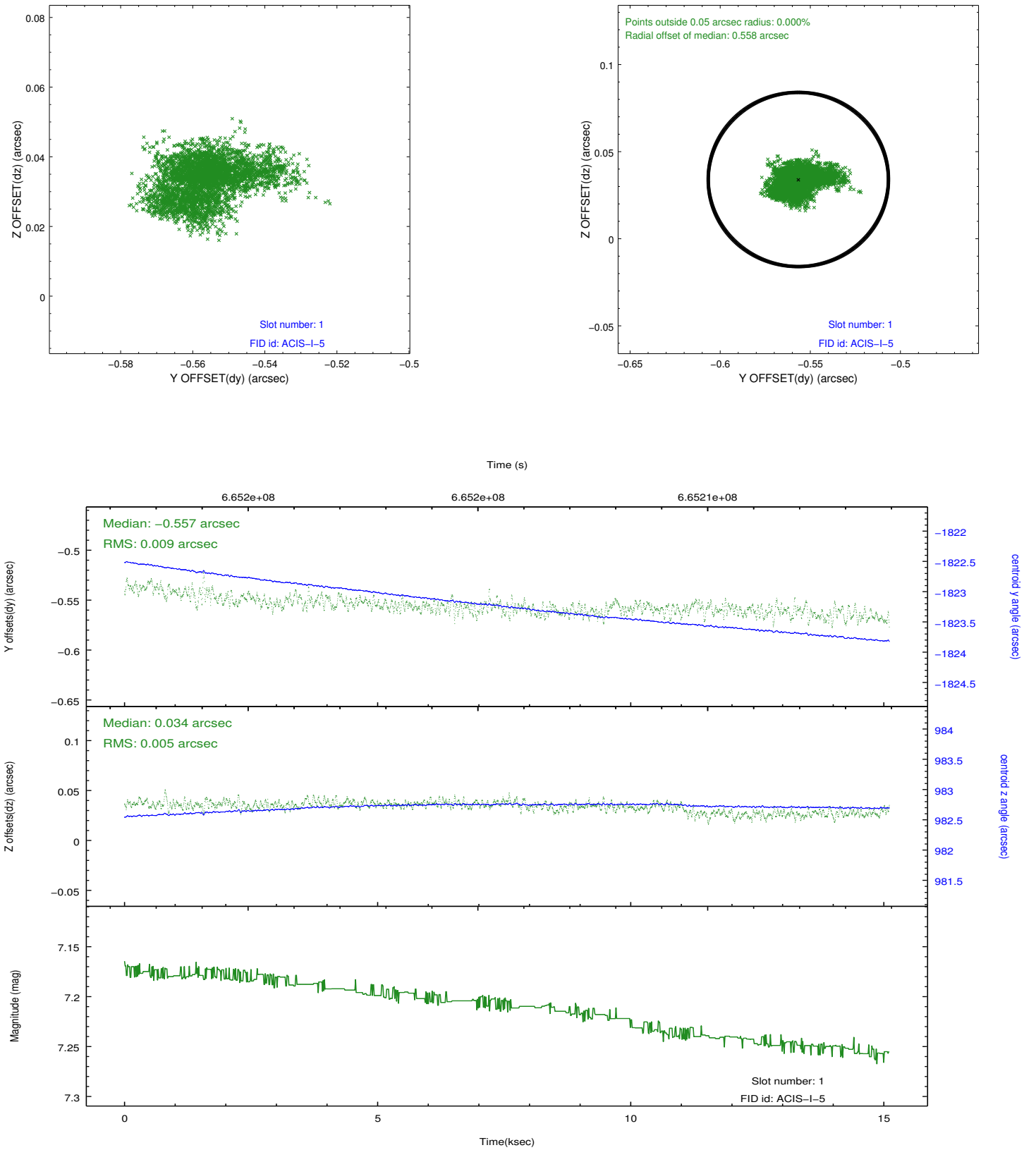


2.5 FID Slots

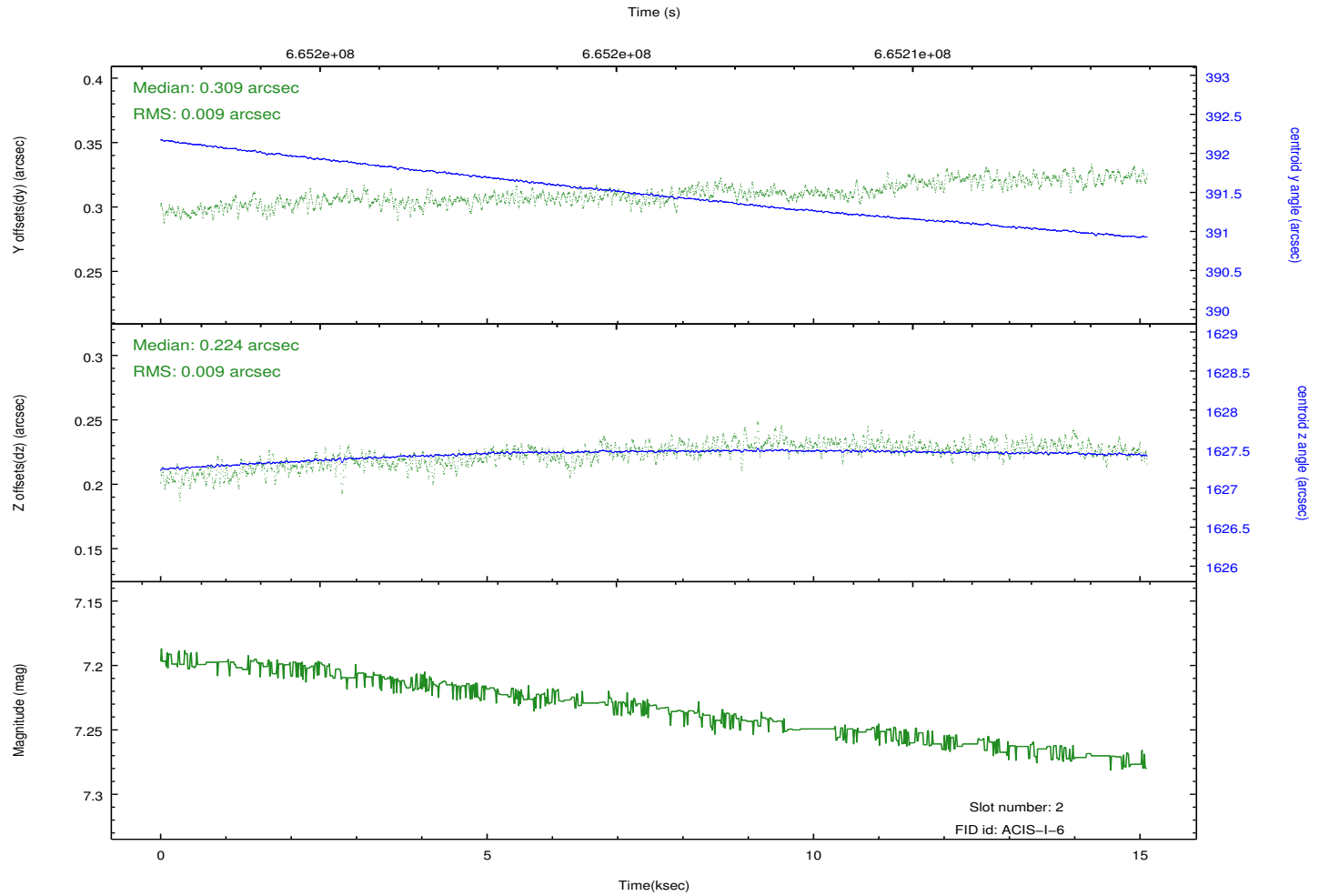
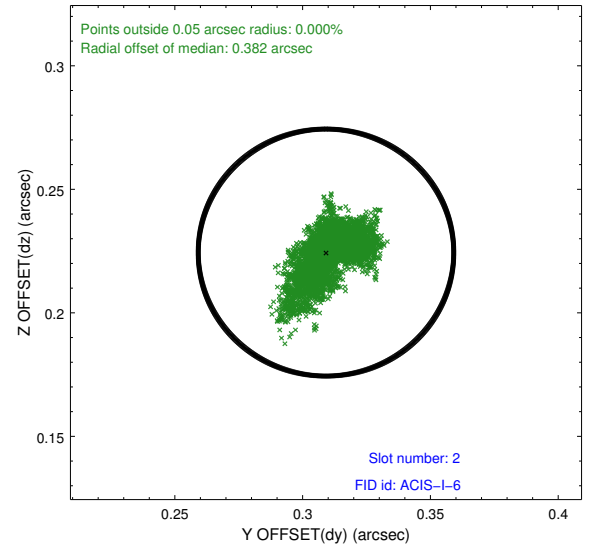
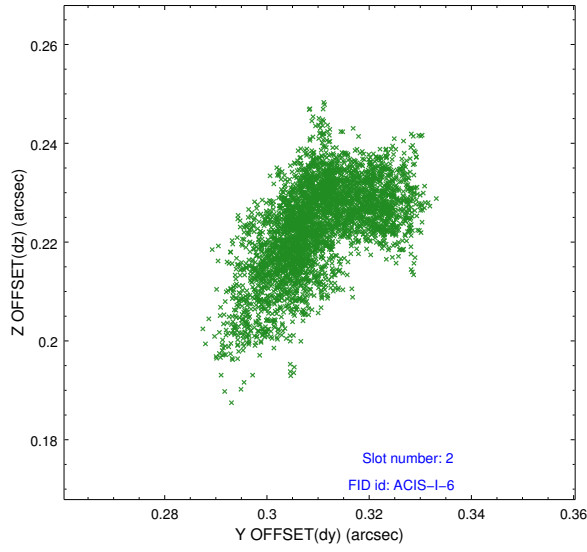
2.5.1 Slot 0



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)	2019.01.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.072159045815

A.2 Comments

One optional chip was dropped.