

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18161 - L2 Version 1
Chandra X-Ray Center

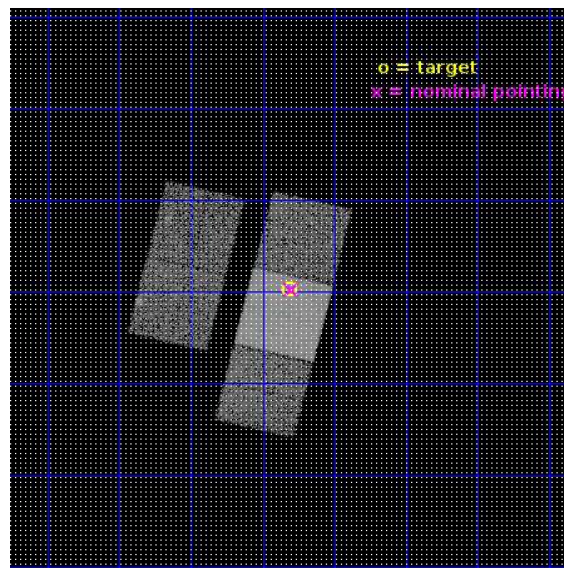
L2 Processing Date : Aug 28 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

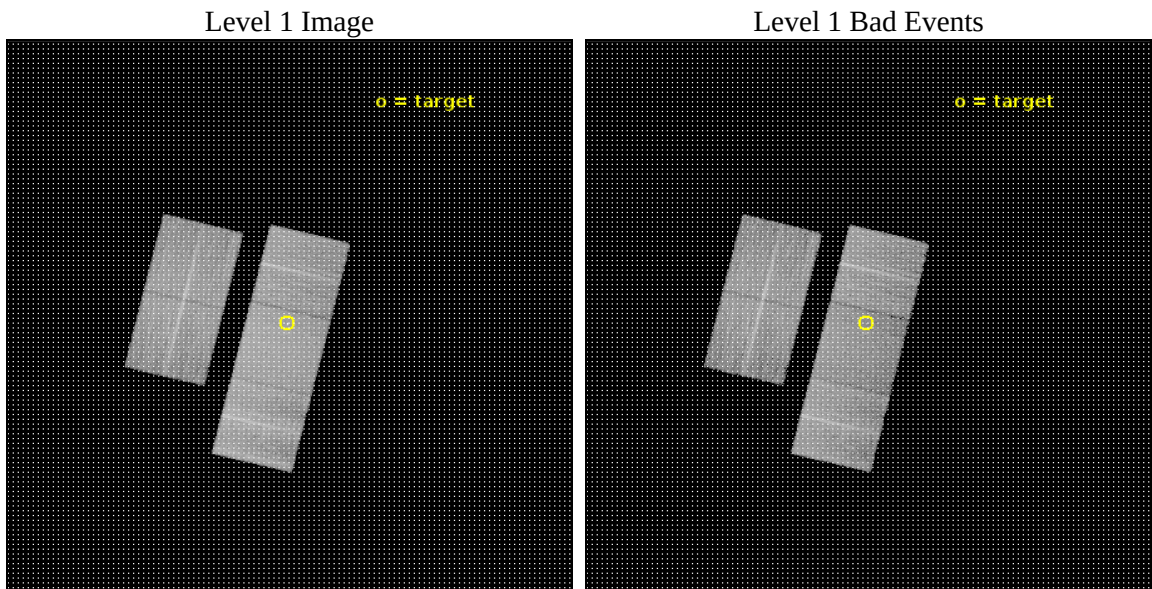
seq_num	703226	Sequence number
obs_id	18161	Observation id
title	Chandra Legacy Survey of Merger Driven AGN Activation in Nearby X-ray Selected AGN	Proposal title
observer	Dr Michael Koss	Principal investigator
object	UGC 793	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	18.7025	Observer's specified target RA [deg]
dec_targ	-0.496111	Observer's specified target Dec [deg]
ra_nom	18.699977547885	Nominal RA [deg]
dec_nom	-0.49635554583653	Nominal Dec [deg]
roll_nom	103.83027870064	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15103.151738882	Sum of GTIs [s]
livetime	14905.817942635	Livetime [s]
ontime2	15102.987578869	Sum of GTIs [s]
ontime3	15103.069658875	Sum of GTIs [s]
ontime6	15103.110698938	Sum of GTIs [s]
ontime7	15103.151738882	Sum of GTIs [s]
ontime8	15103.028618932	Sum of GTIs [s]
l2events	93735	Number of level 2 events



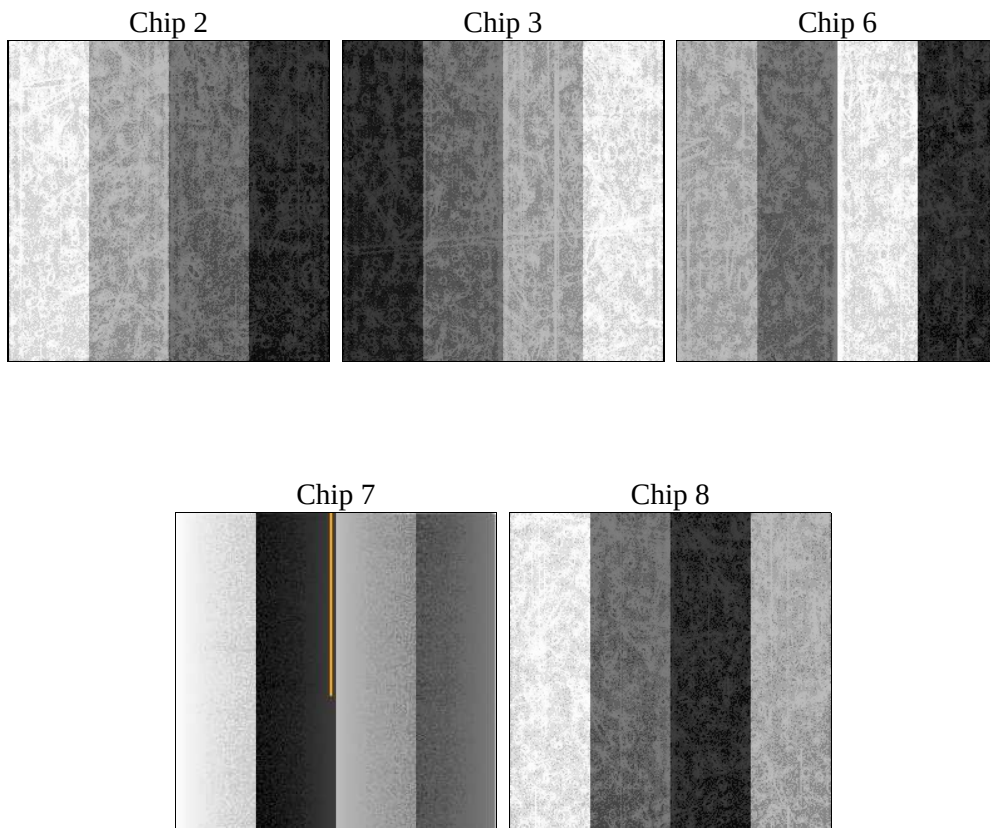
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15046.500000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	15103.151738882	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	15102.987578869	Sum of GTIs [s]
date	2016-08-29T01:54:57	Date and time of file creation	ontime3	15103.069658875	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	15103.110698938	Sum of GTIs [s]
			ontime7	15103.151738882	Sum of GTIs [s]
			ontime8	15103.028618932	Sum of GTIs [s]
			l1events	570219	Number of level 1 events

2.1.4 Events

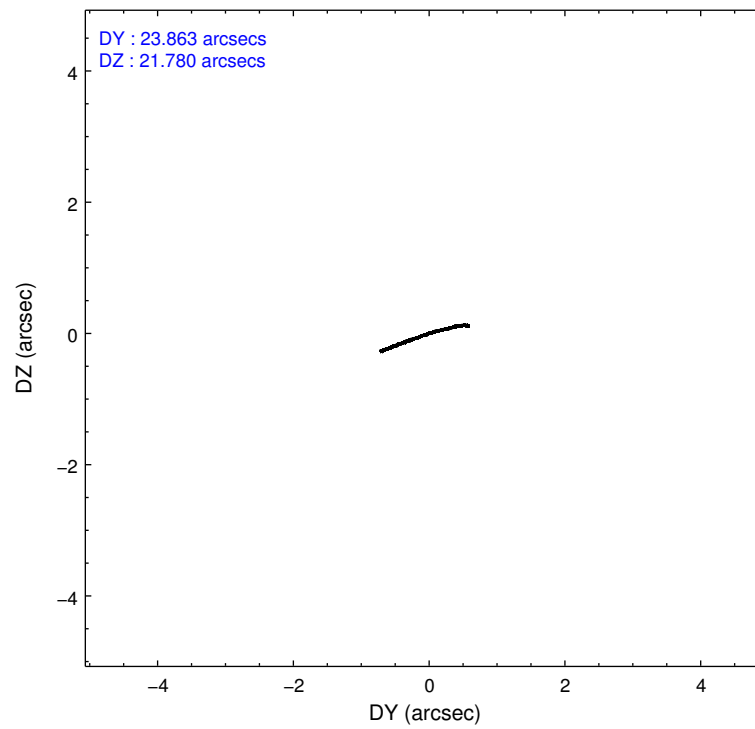
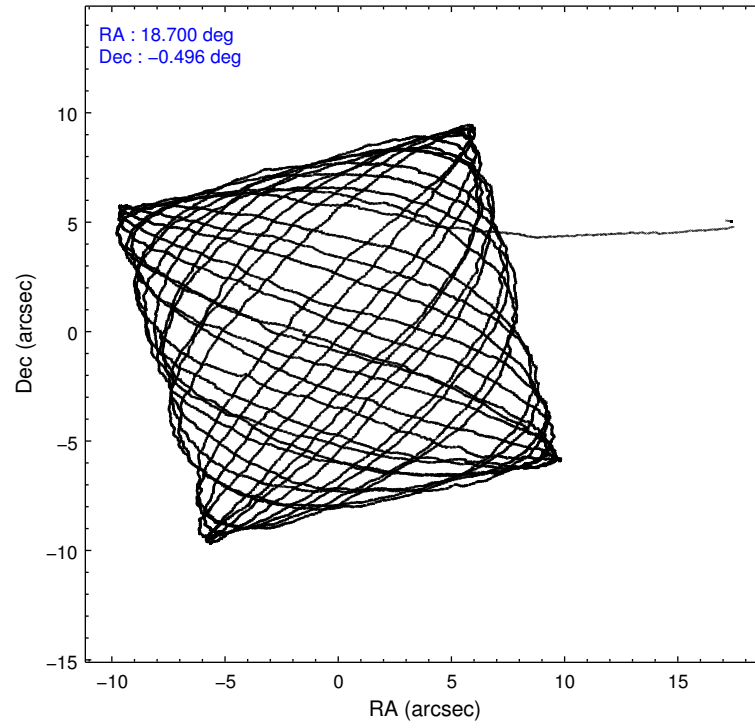
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	101695	98427	105598	131180	133319
rejected events	91367	87871	94261	75185	100263
rejected %	89%	89%	89%	57%	75%

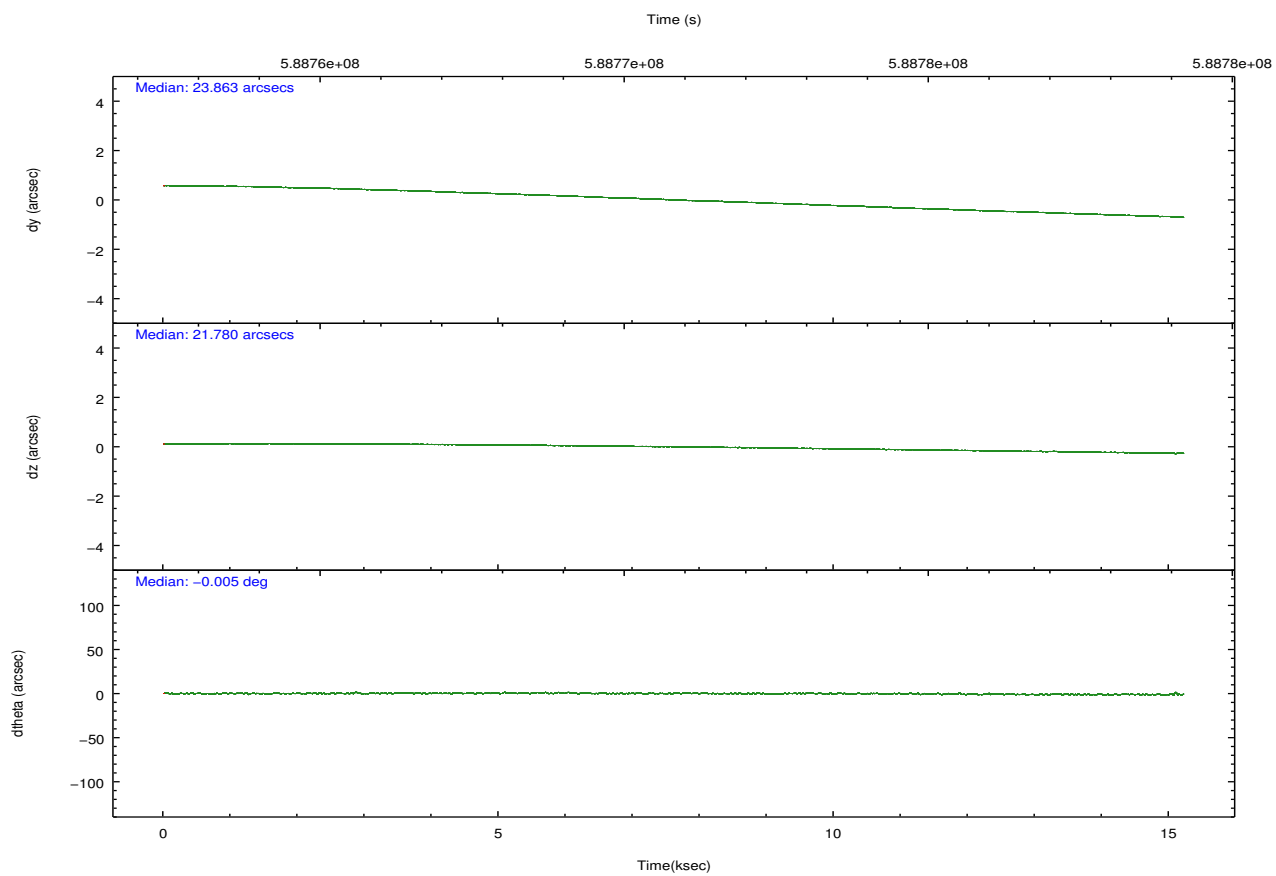
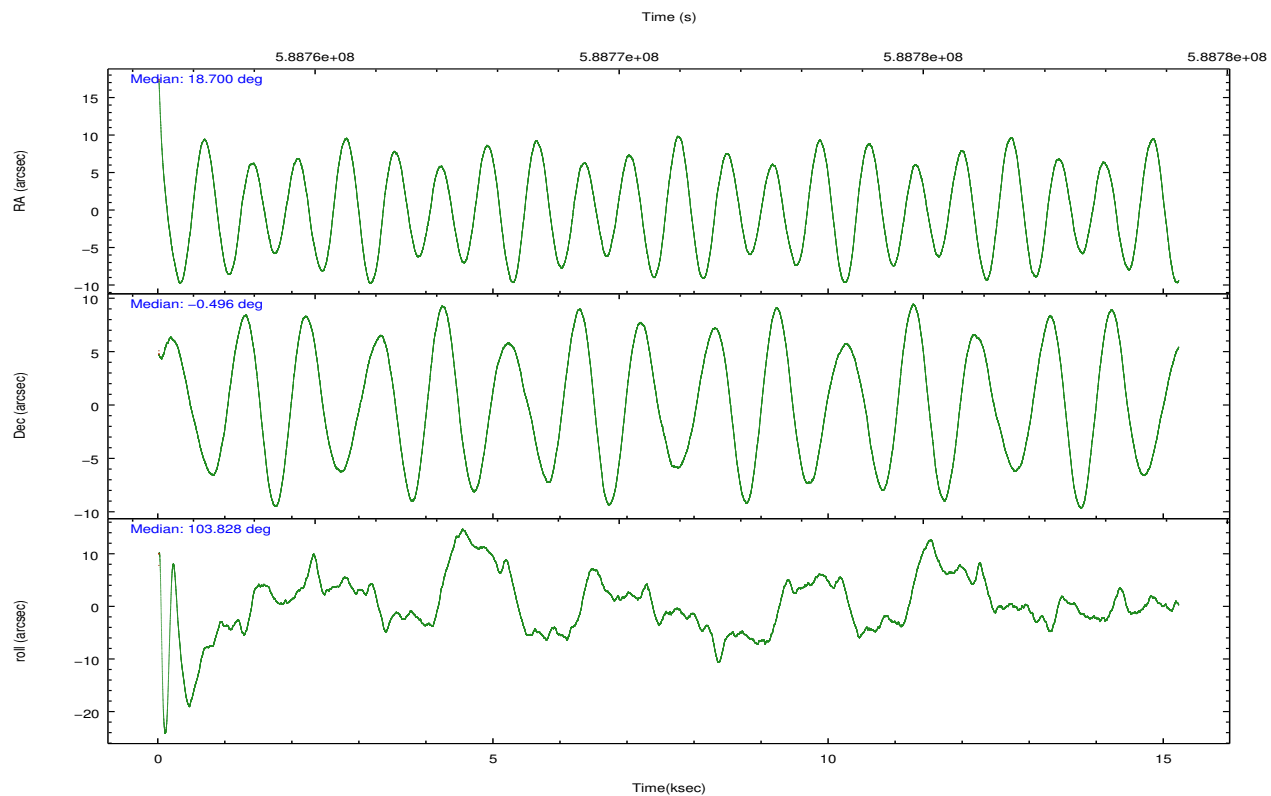
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3678	3728	3542	4557	9162
	3%	3%	3%	3%	6%
grade 1 events	47	58	47	160	87
	0%	0%	0%	0%	0%
grade 2 events	2453	2290	2740	12034	7946
	2%	2%	2%	9%	5%
grade 3 events	1048	1161	1096	4137	3439
	1%	1%	1%	3%	2%
grade 4 events	1113	1114	1129	4250	3286
	1%	1%	1%	3%	2%
grade 5 events	3770	4816	4604	12379	7065
	3%	4%	4%	9%	5%
grade 6 events	2038	2267	2835	31039	9232
	2%	2%	2%	23%	6%
grade 7 events	87548	82993	89605	62624	93102
	86%	84%	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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	18.719268	18.69997754788455	CCD I2 on	O2	Y
[deg] Pointing Dec	-0.515916	-0.4963555458365342	CCD I3 on	O3	Y
[deg] Pointing Roll	103.673787	103.8302787006405	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	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	O5	Y
[s] Observation start time (MET)	588763384.184000	588762306.46237	CCD S5 on	N	N
Observation start date	2016-08-28T09:21:56	2016-08-28T09:05:06	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	588778431.184000	588778657.26331	On-chip summing requested	N	N
Observation end date	2016-08-28T13:32:43	2016-08-28T13:37:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



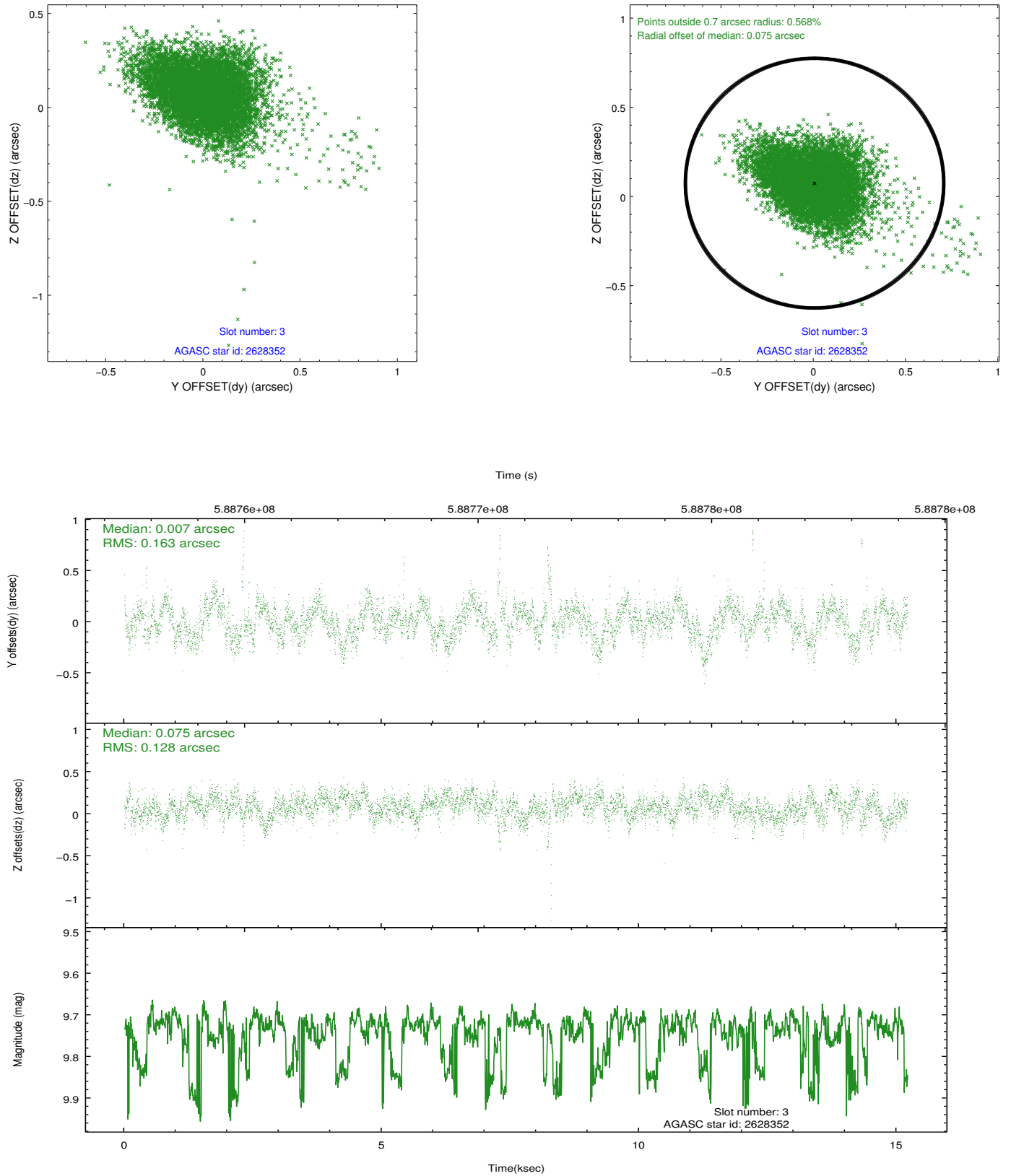


Slot Statistics

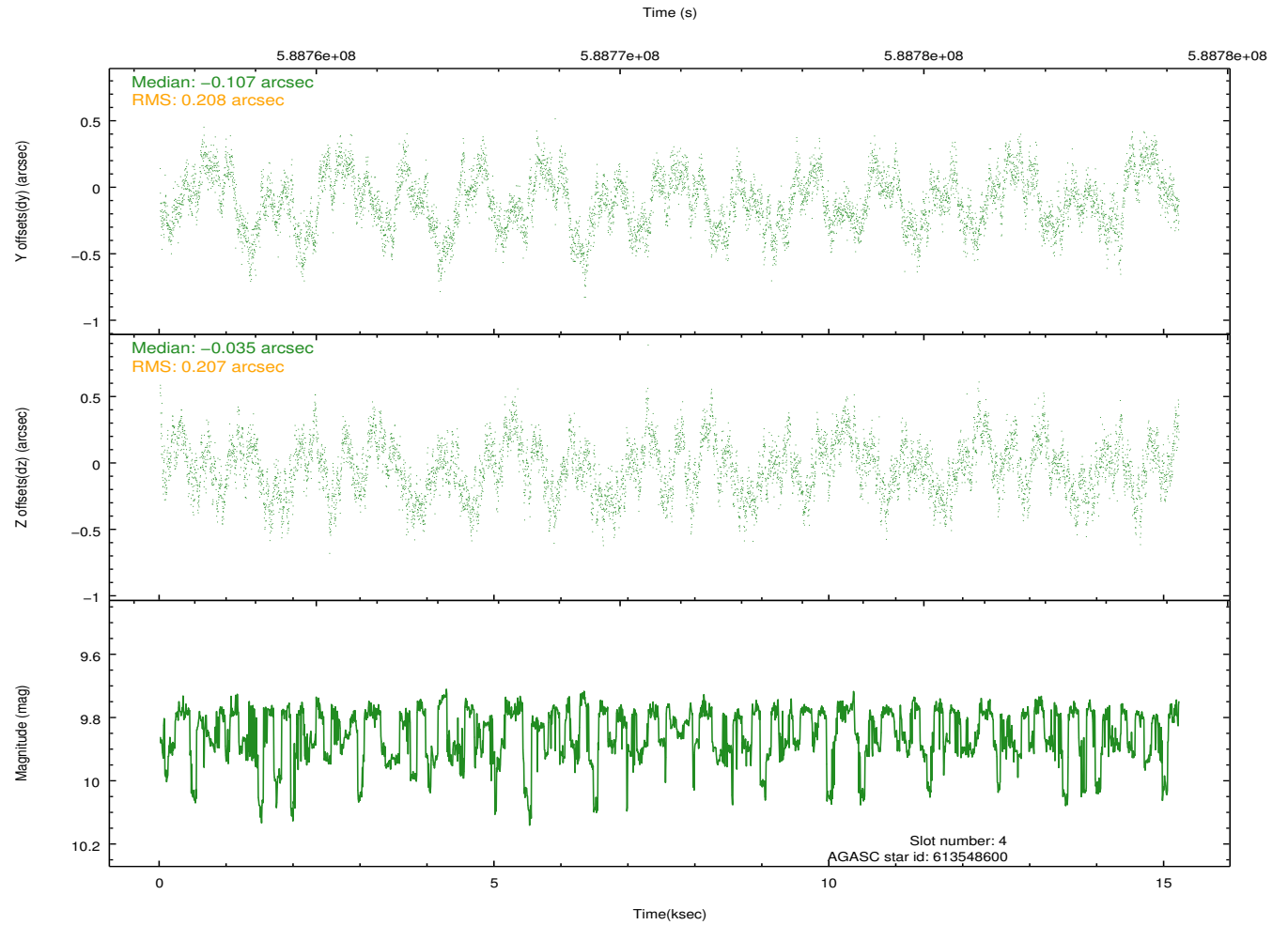
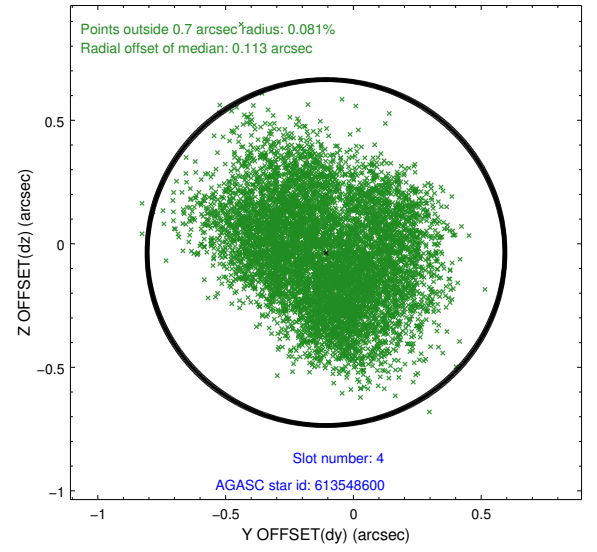
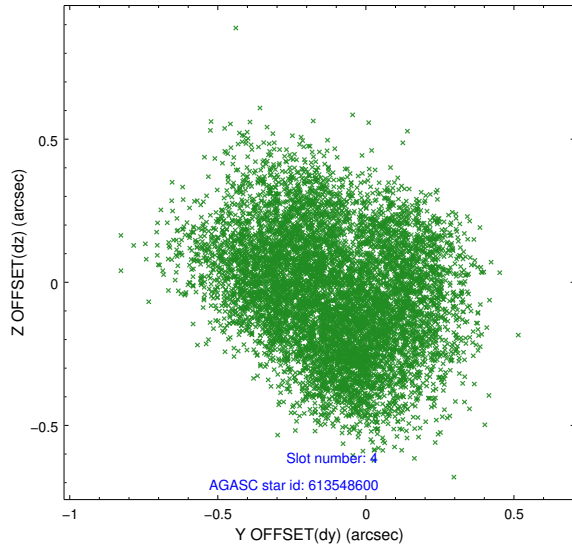
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.09	3711	-0.256	-0.154	0.012	0.018	0.000000	0.000000	-777.29	-1743.43
1	FID		ACIS-S-4	7.20	3711	0.579	0.164	0.009	0.017	0.000000	0.000000	2136.65	165.11
2	FID		ACIS-S-5	7.21	3711	-0.355	-0.002	0.009	0.016	0.000000	0.000000	-1829.89	158.89
3	GUIDE	used	2628352	9.74	7391	0.007	0.075	0.205	0.354	18.930347	0.017661	1686.56	-1191.80
4	GUIDE	used	613548600	9.85	7410	-0.107	-0.035	0.320	0.475	18.710460	-0.218466	1048.06	-221.24
5	GUIDE	used	613549952	10.13	7398	0.316	0.064	0.357	0.542	18.726726	-0.886109	-1301.09	289.62
6	GUIDE	used	2624208	9.01	7418	-0.260	-0.001	0.121	0.197	18.631908	0.152341	2411.77	-263.21
7	GUIDE	used	613549184	9.80	7363	0.032	-0.088	0.254	0.406	18.424548	-1.246000	-2302.60	1652.08

2.4 Star Slots

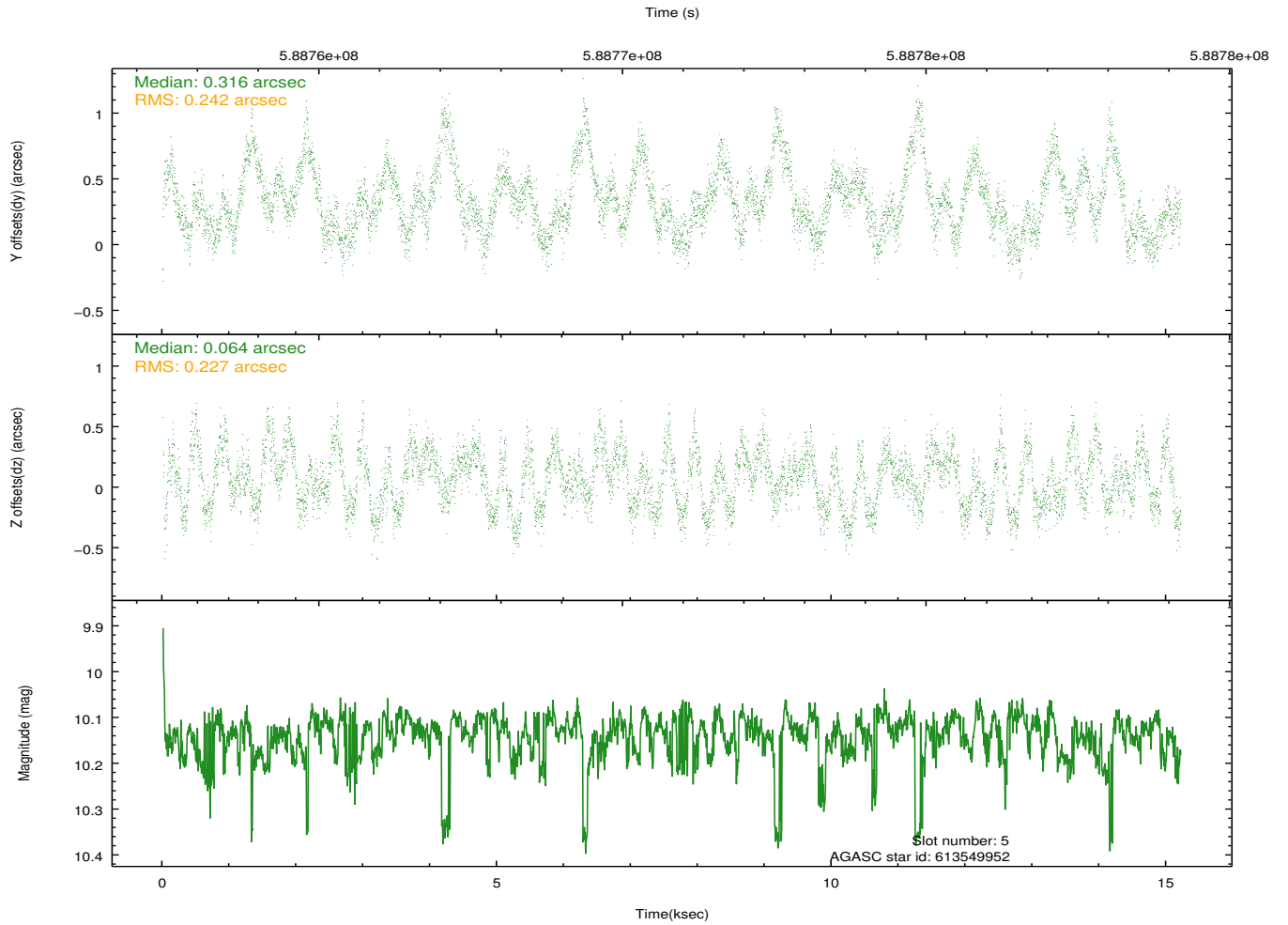
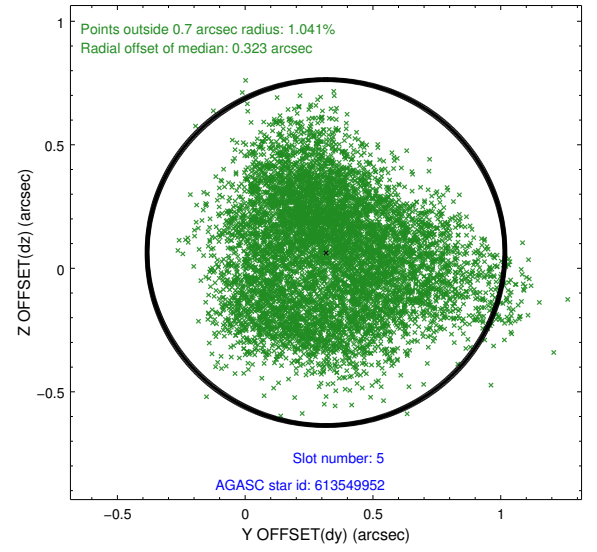
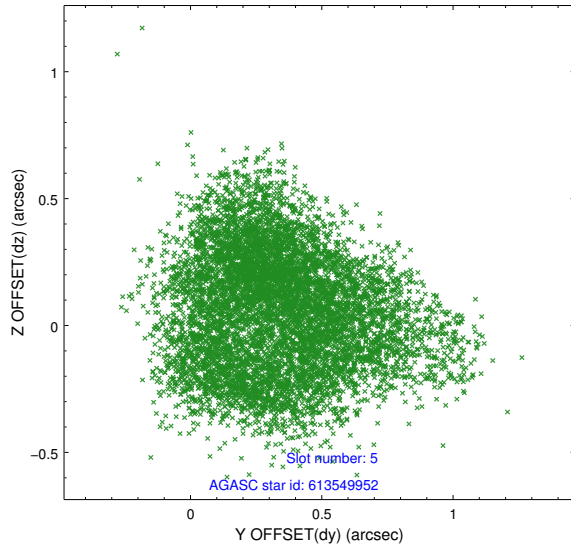
2.4.1 Slot 3



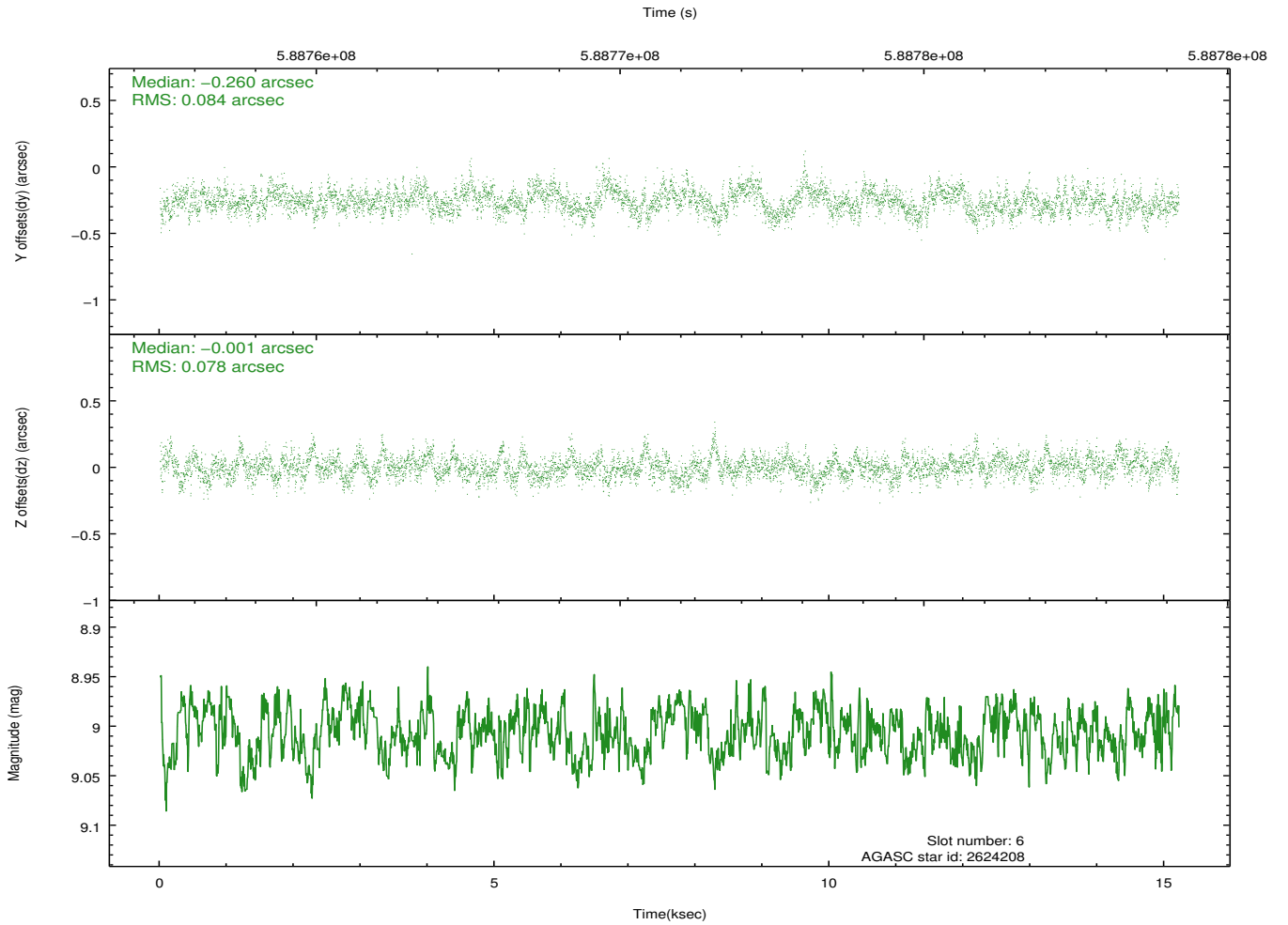
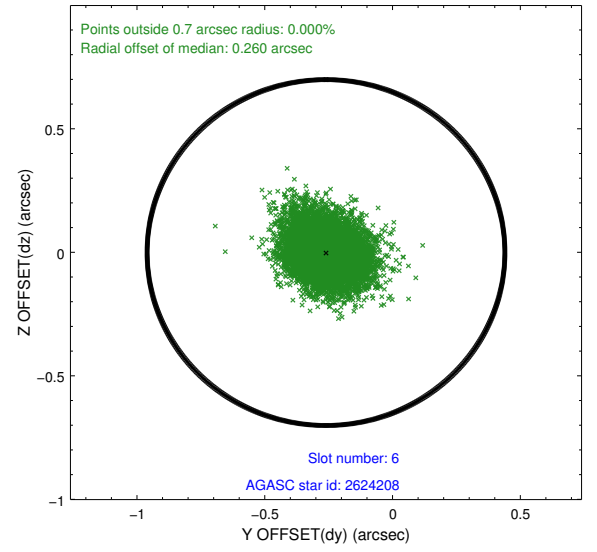
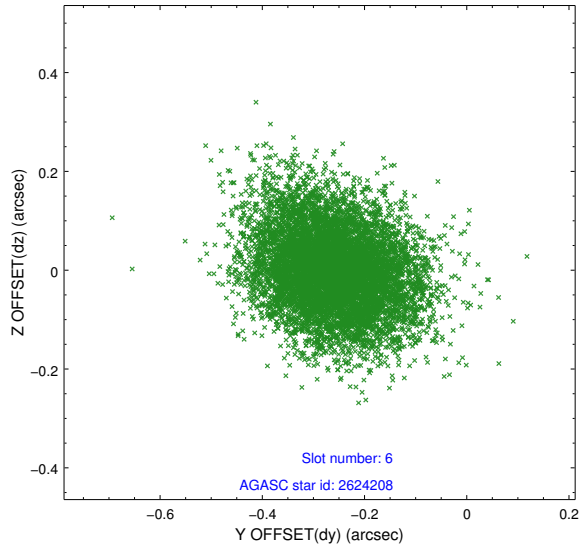
2.4.2 Slot 4



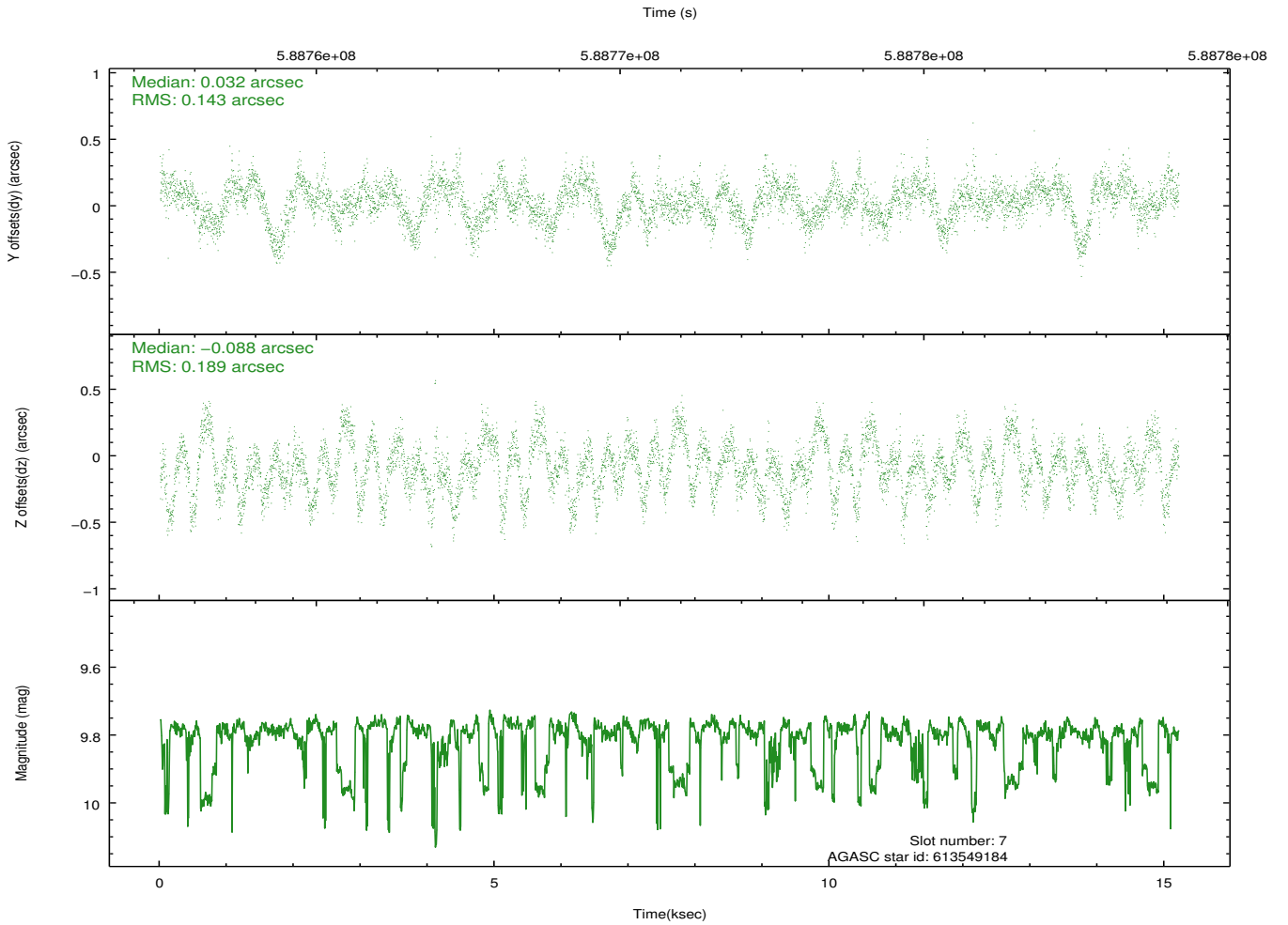
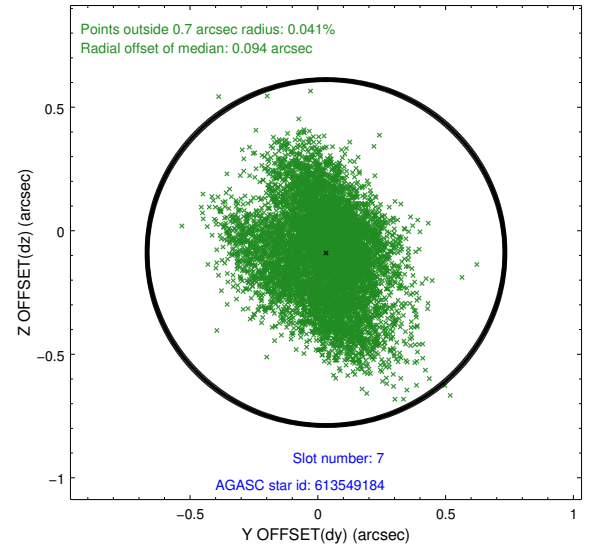
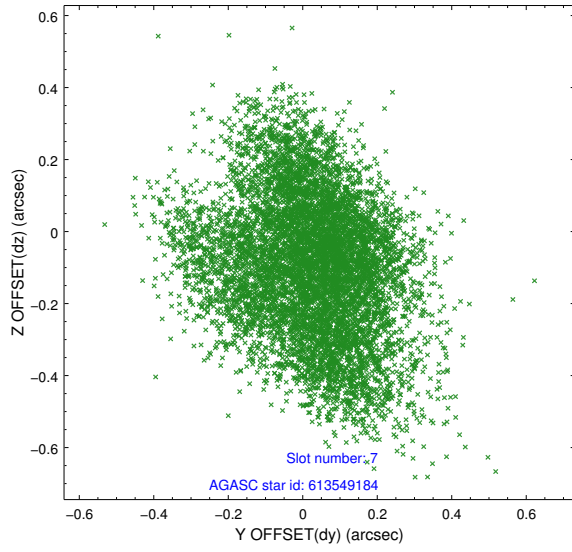
2.4.3 Slot 5



2.4.4 Slot 6

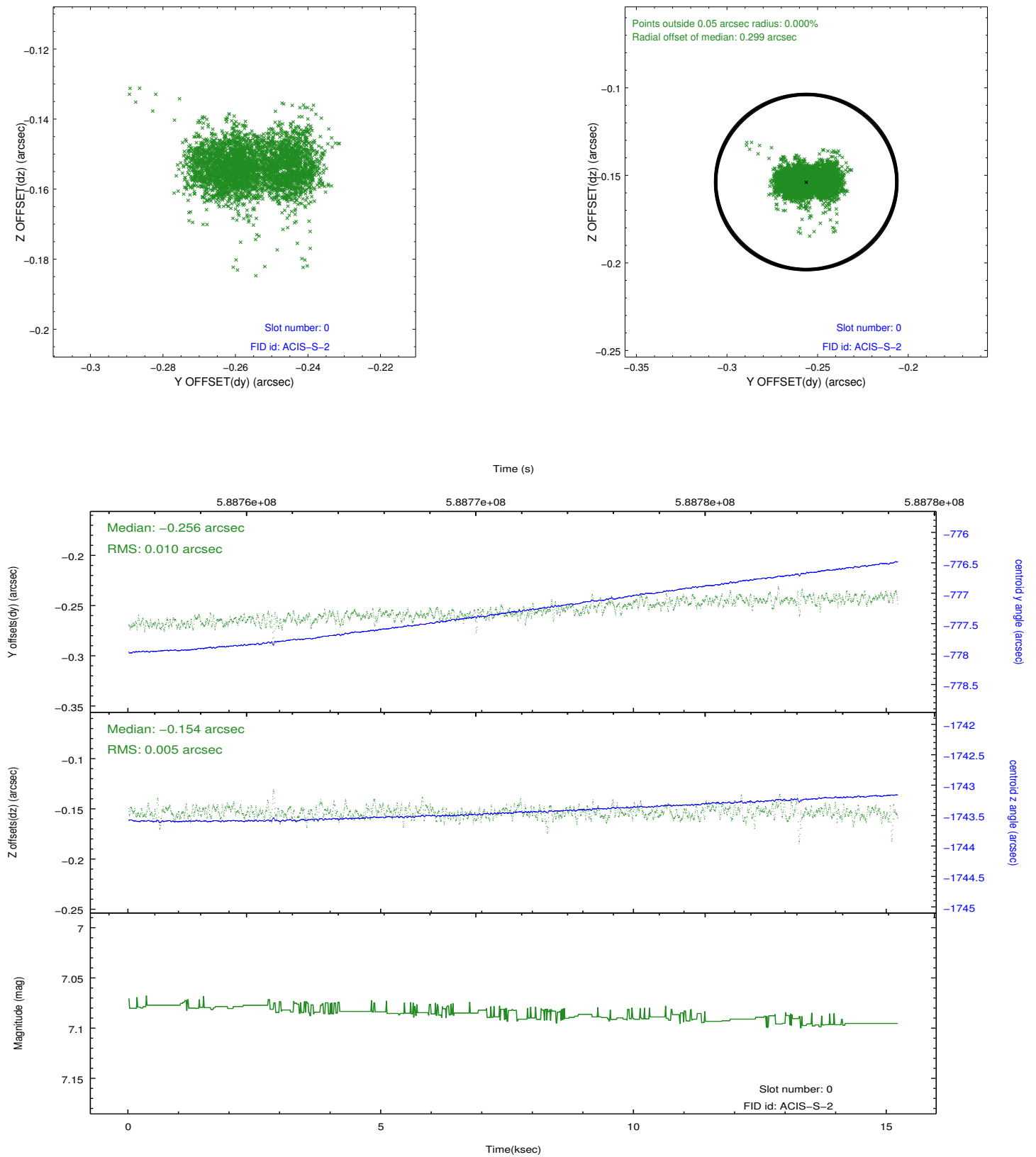


2.4.5 Slot 7

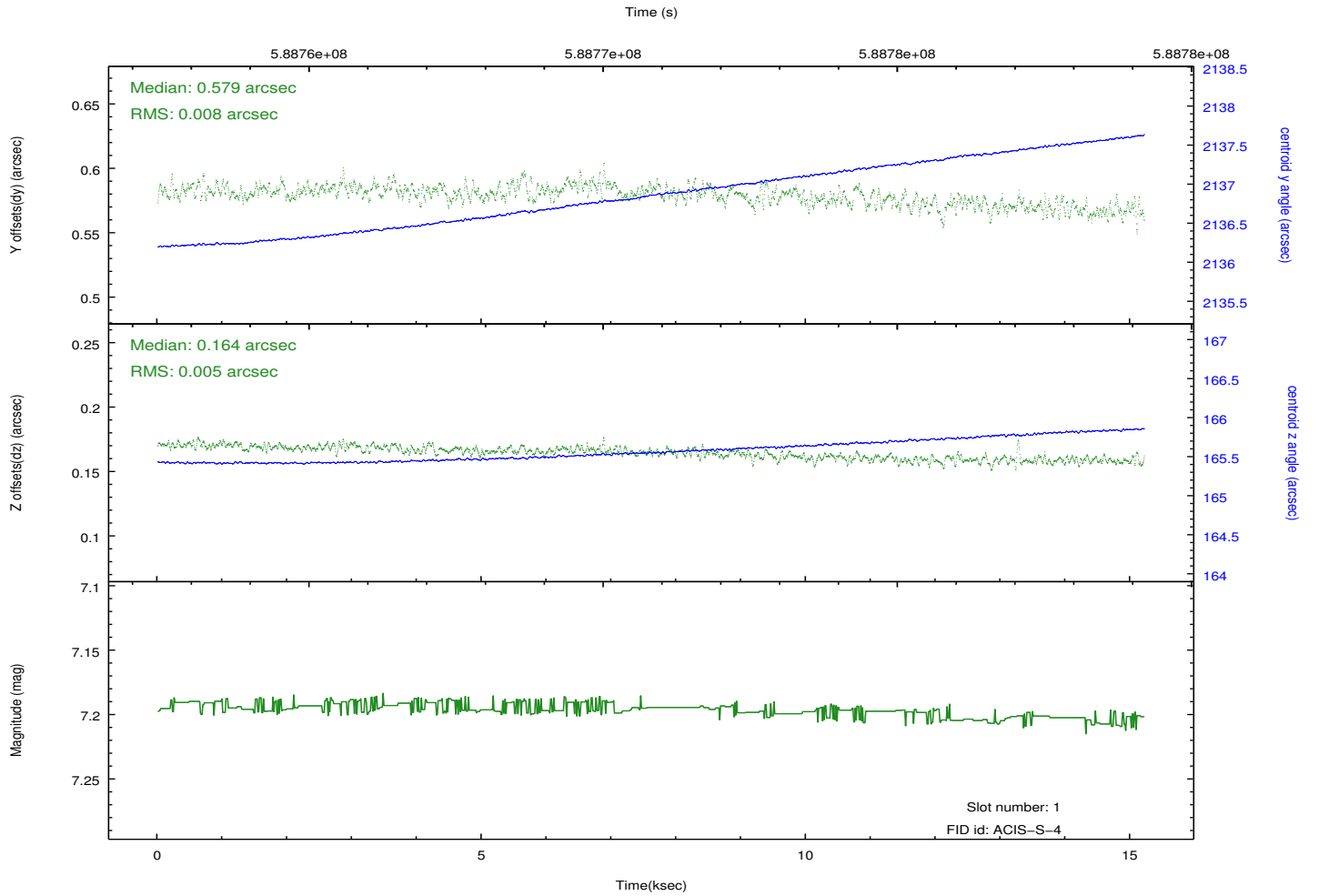
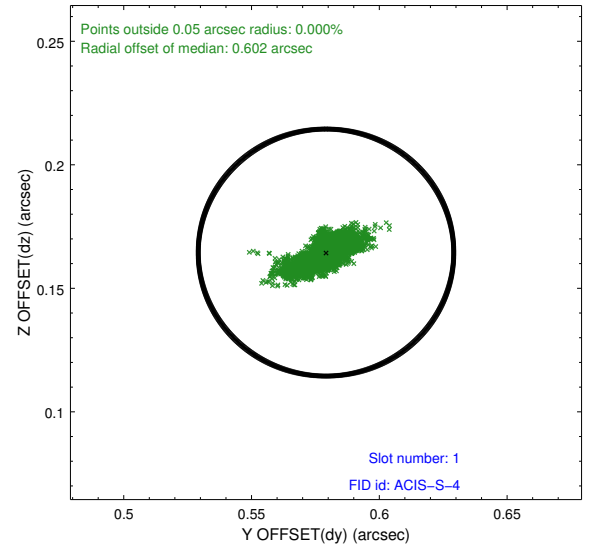
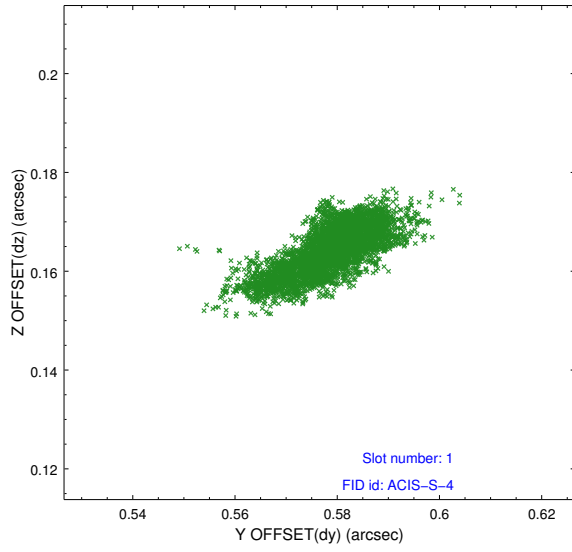


2.5 FID Slots

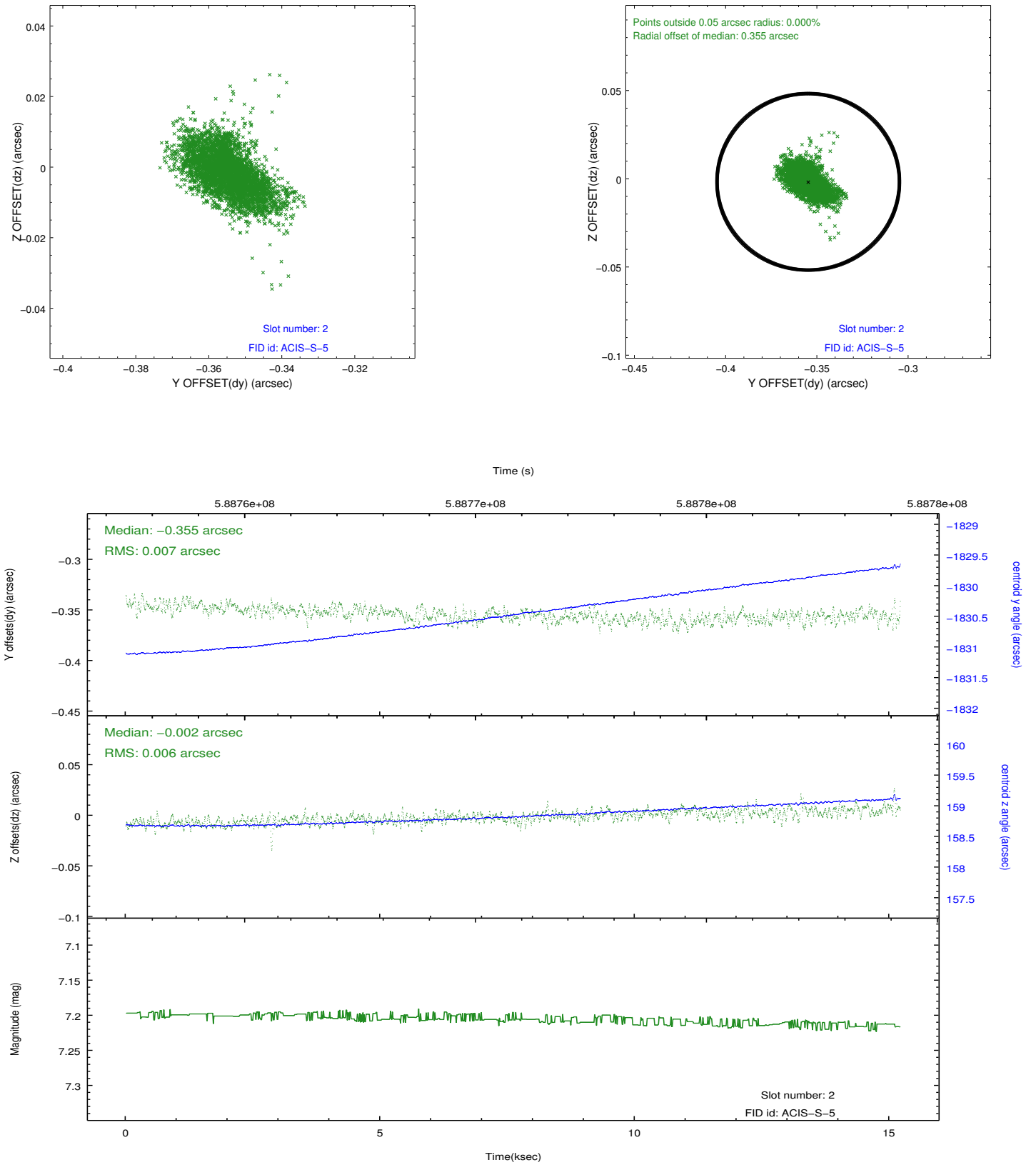
2.5.1 Slot 0



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)	2016.08.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.103151738882

A.2 Comments

One optional chip was dropped.