

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 17617 - L2 Version 1
Chandra X-Ray Center

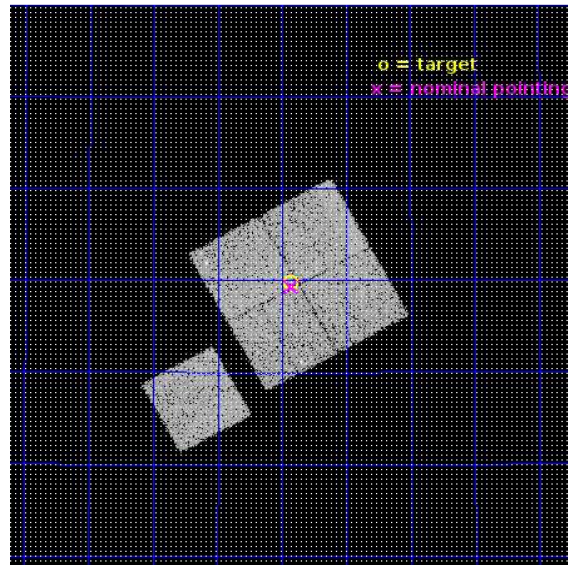
L2 Processing Date : Jul 1 2016

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

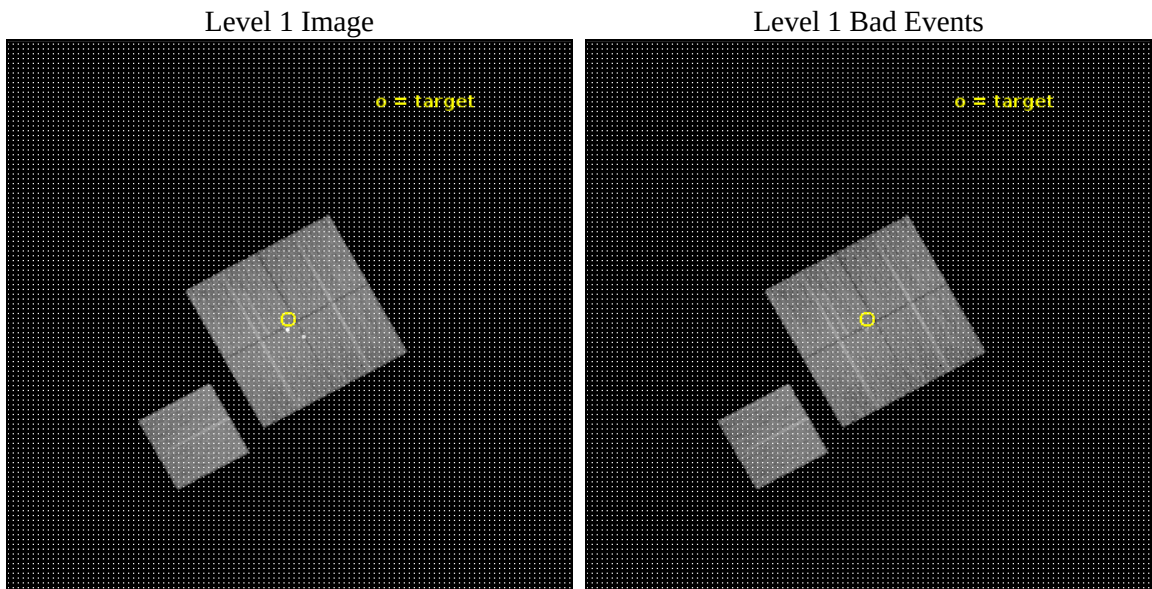
seq_num	801501	Sequence number
obs_id	17617	Observation id
title	Chandra mapping of the cosmic web converging on the virialization region of Abell 1795	Proposal title
observer	Dr Alexey Vikhlinin	Principal investigator
object	Abell 1795 outskirts	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.60765	Observer's specified target RA [deg]
dec_targ	26.162058	Observer's specified target Dec [deg]
ra_nom	207.60671593426	Nominal RA [deg]
dec_nom	26.155343084488	Nominal Dec [deg]
roll_nom	241.20912035436	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20066.218063951	Sum of GTIs [s]
livetime	19804.03815241	Livetime [s]
ontime0	20072.500154495	Sum of GTIs [s]
ontime1	20066.218043923	Sum of GTIs [s]
ontime2	20069.35919416	Sum of GTIs [s]
ontime3	20066.218063951	Sum of GTIs [s]
ontime6	20072.500154495	Sum of GTIs [s]
l2events	60677	Number of level 2 events



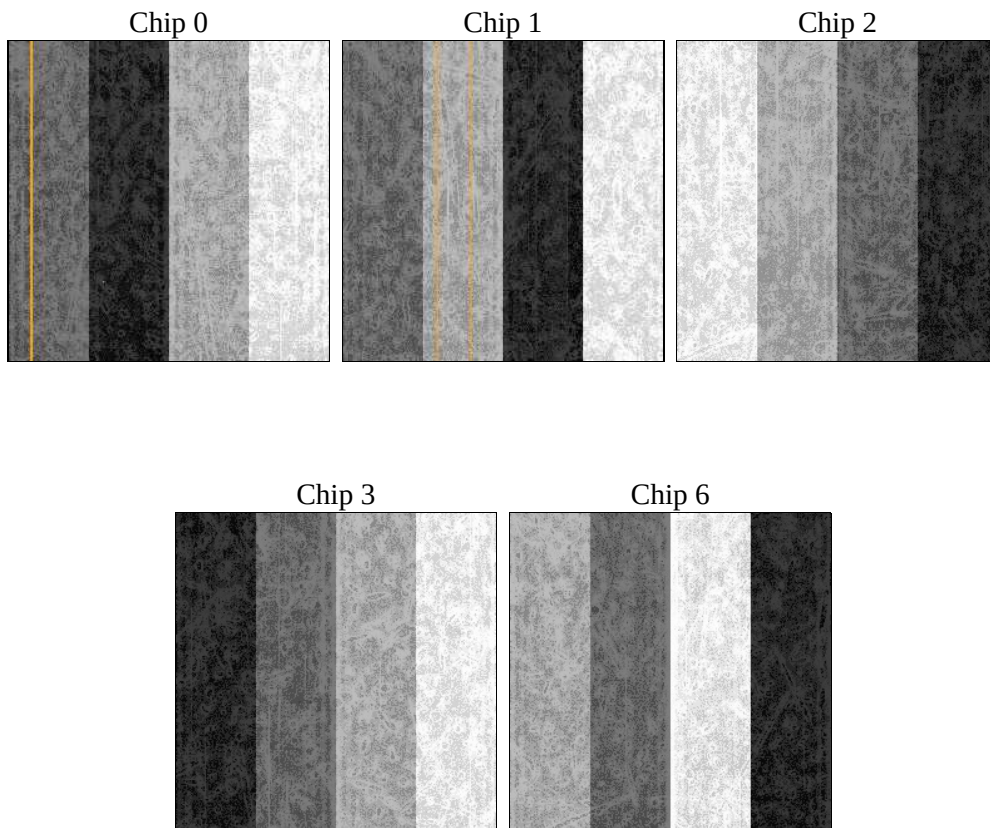
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	20066.218063951	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	20072.500154495	Sum of GTIs [s]
date	2016-07-01T14:18:47	Date and time of file creation	ontime1	20066.218043923	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	20069.35919416	Sum of GTIs [s]
			ontime3	20066.218063951	Sum of GTIs [s]
			ontime6	20072.500154495	Sum of GTIs [s]
			l1events	666959	Number of level 1 events

2.1.4 Events

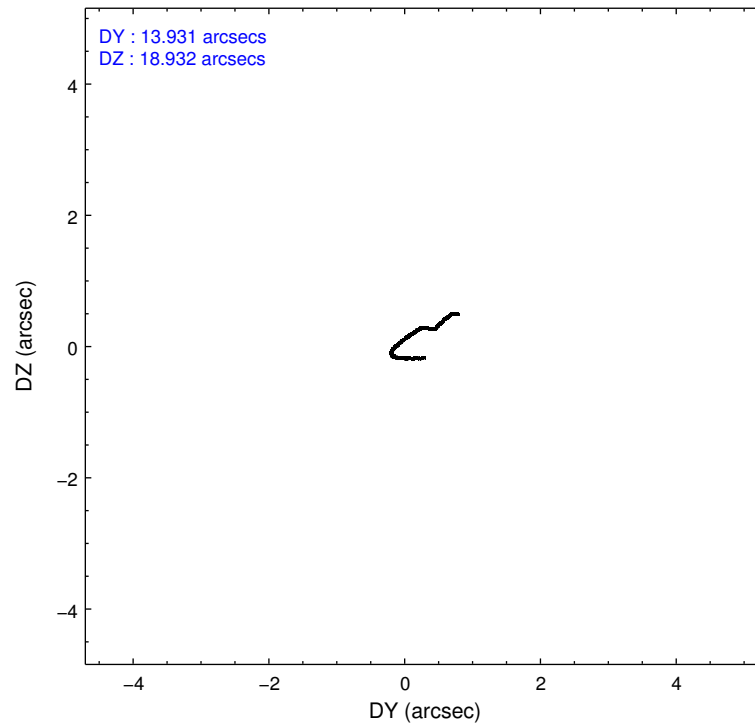
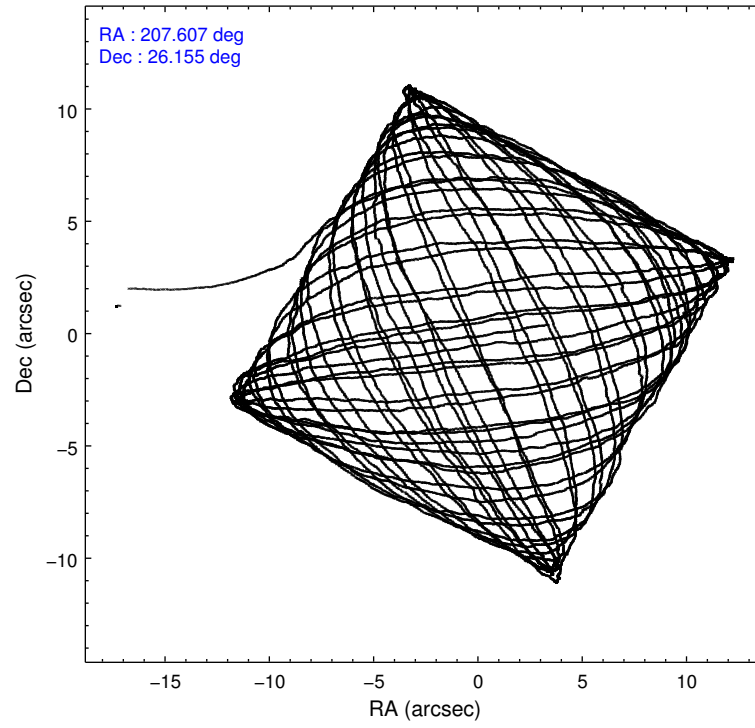
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	121192	122725	159704	133601	129737
rejected events	106640	106681	120402	119943	115735
rejected %	87%	86%	75%	89%	89%

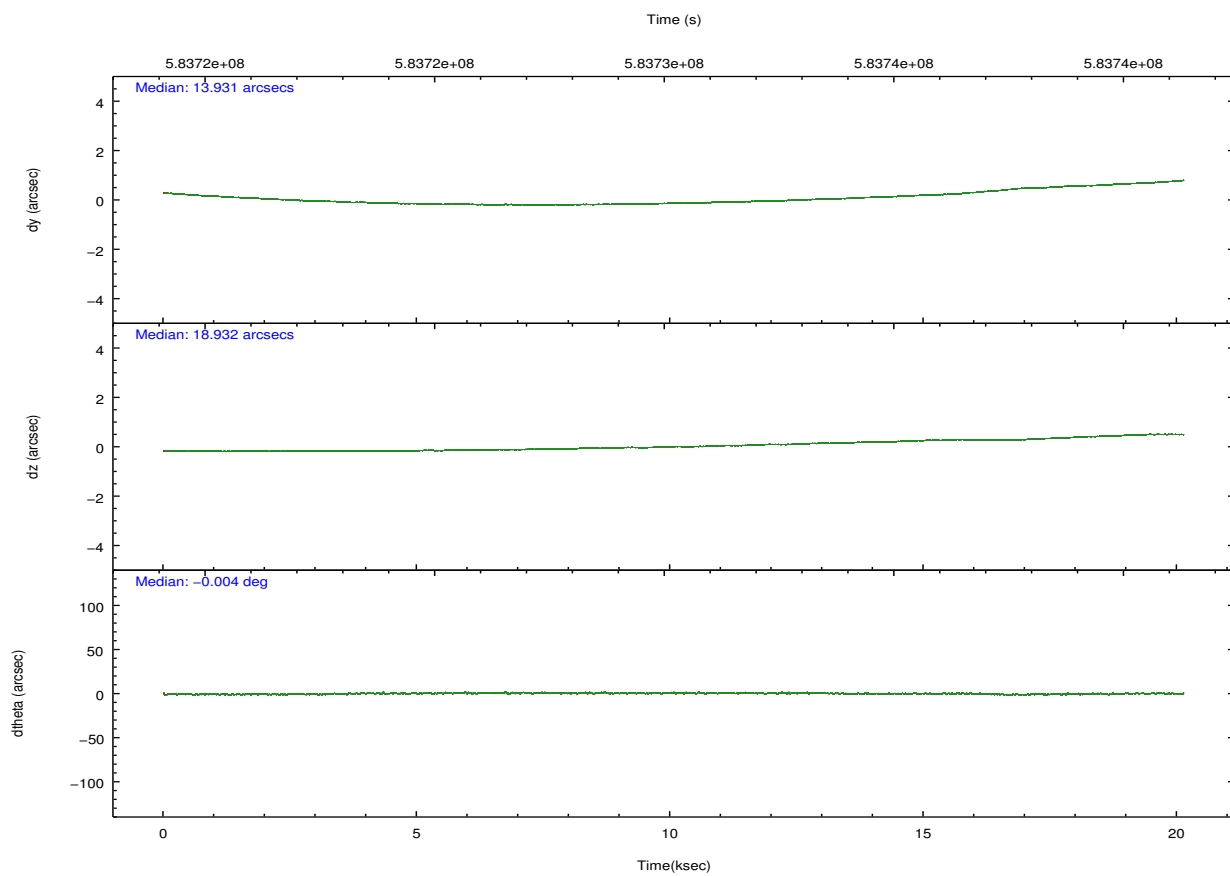
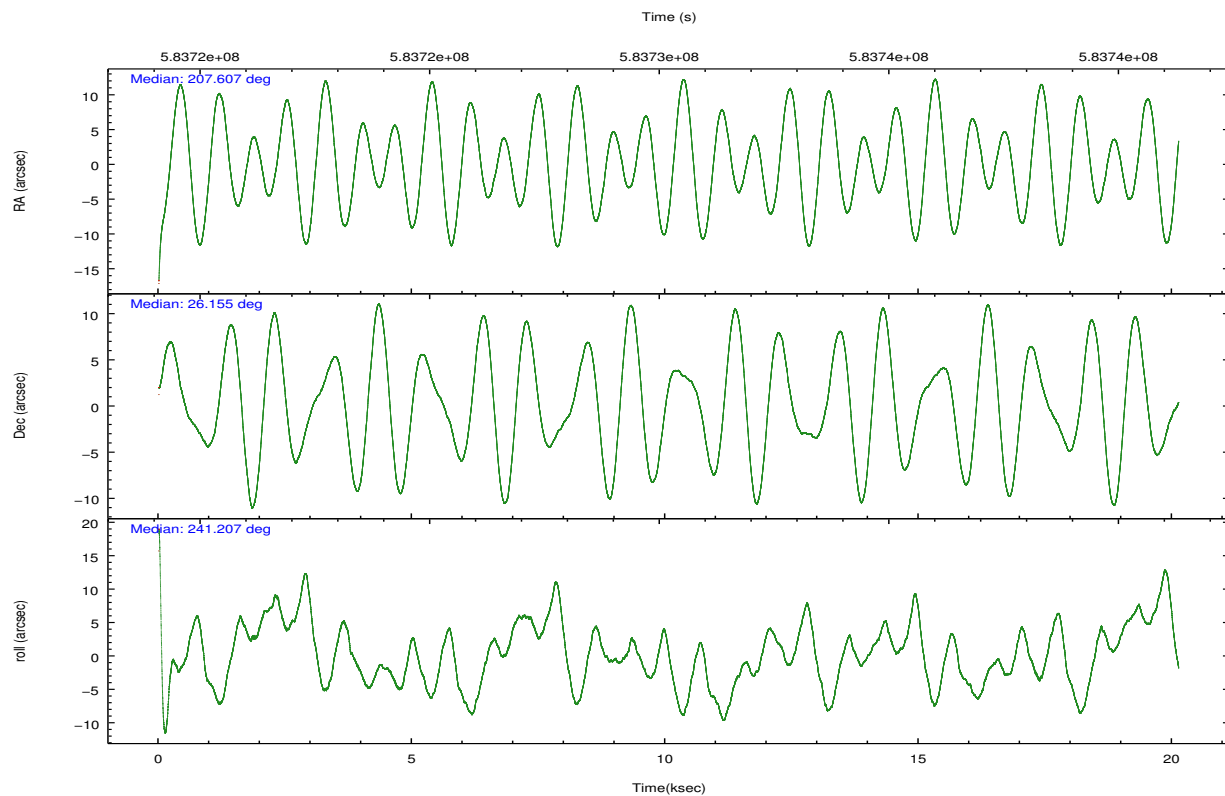
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4895	5523	11066	4796	4462
	4%	4%	6%	3%	3%
grade 1 events	58	59	130	71	64
	0%	0%	0%	0%	0%
grade 2 events	3604	4054	22673	3077	3367
	2%	3%	14%	2%	2%
grade 3 events	1485	1431	1412	1504	1399
	1%	1%	0%	1%	1%
grade 4 events	1463	1485	1422	1410	1355
	1%	1%	0%	1%	1%
grade 5 events	5534	5796	5123	6326	6023
	4%	4%	3%	4%	4%
grade 6 events	3106	3558	2735	2872	3424
	2%	2%	1%	2%	2%
grade 7 events	101047	100819	115143	113545	109643
	83%	82%	72%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	207.605984	207.6067159342597	CCD I2 on	Y	Y
[deg] Pointing Dec	26.182923	26.15534308448758	CCD I3 on	Y	Y
[deg] Pointing Roll	241.000736	241.2091203543641	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	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	583720272.184000	583719194.44777	CCD S5 on	N	N
Observation start date	2016-07-01T00:30:04	2016-07-01T00:13:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	583740272.184000	583741679.87406	On-chip summing requested	N	N
Observation end date	2016-07-01T06:03:24	2016-07-01T06:27:59	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



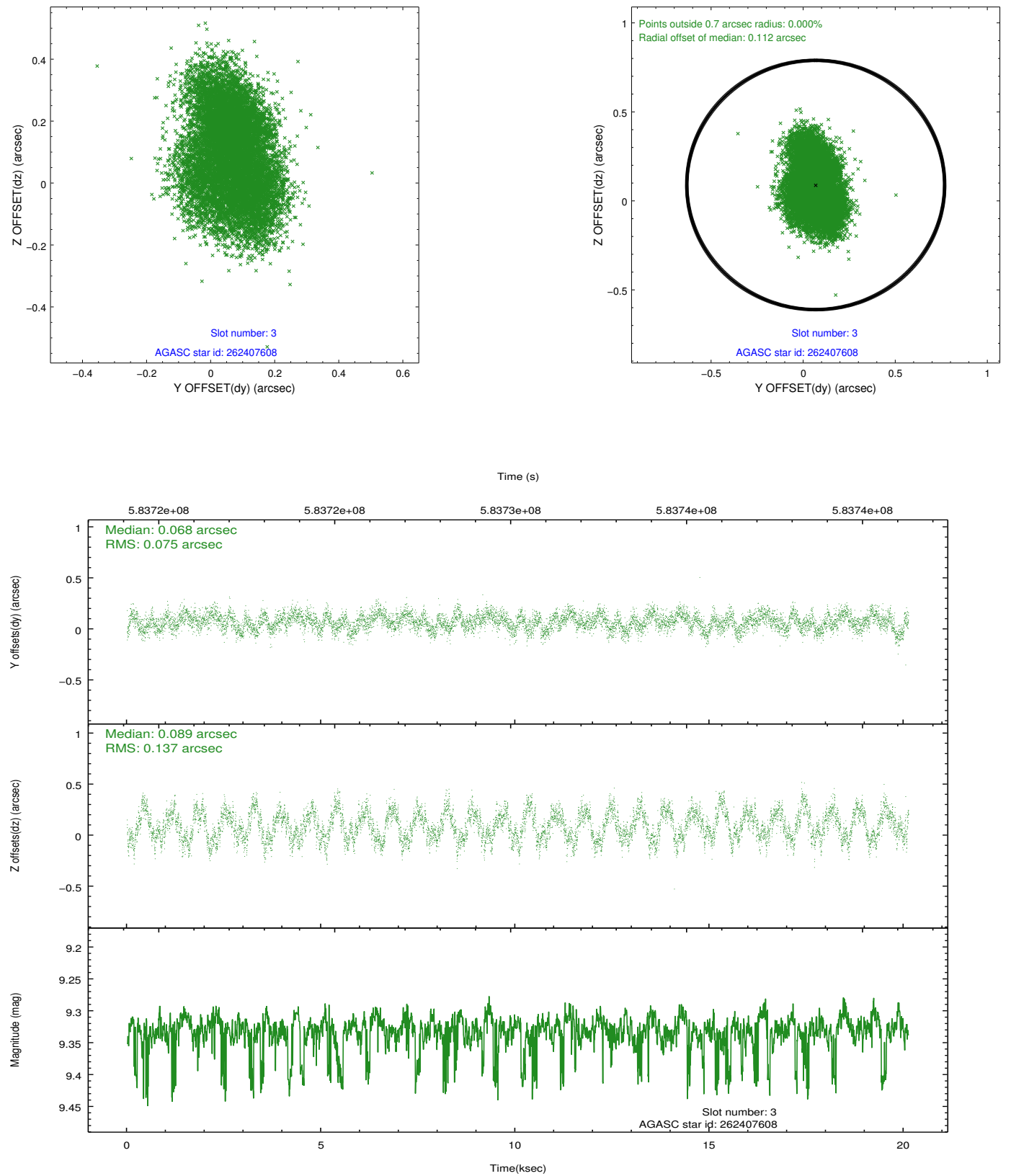


Slot Statistics

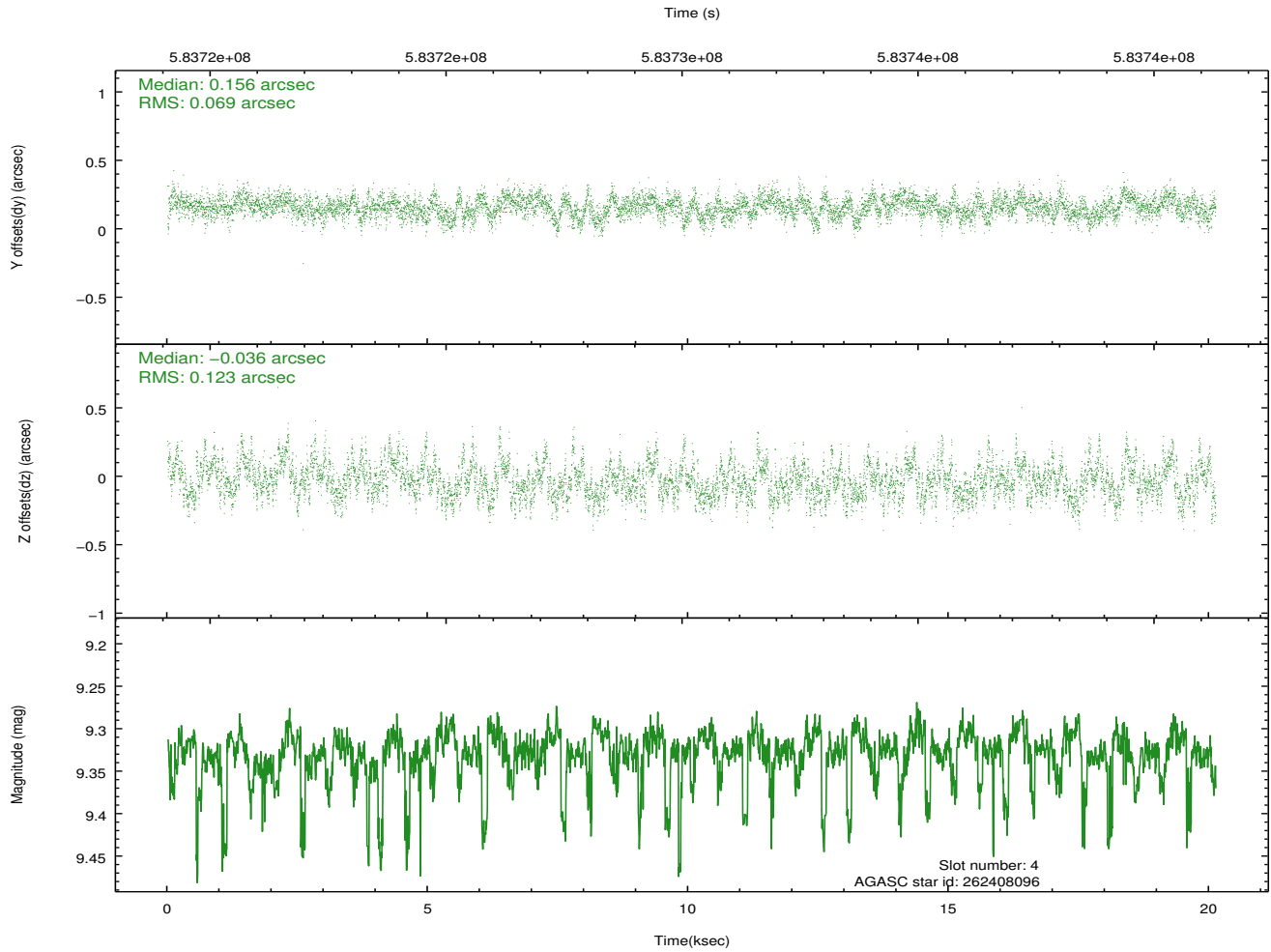
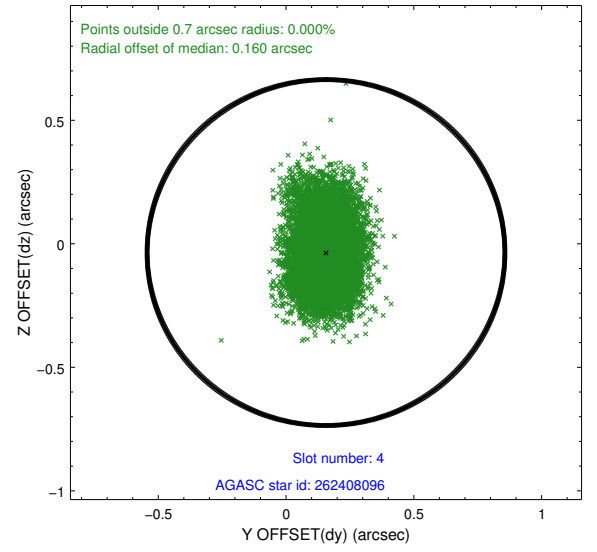
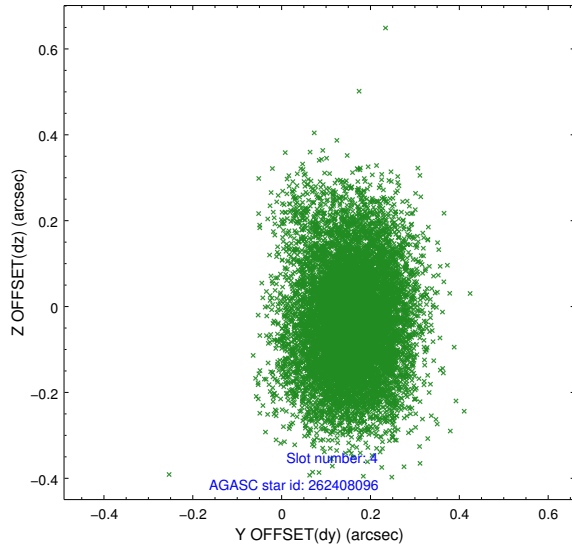
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	4909	0.048	0.001	0.010	0.022	0.000000	0.000000	925.55	-842.65
1	FID		ACIS-I-5	7.26	4909	-0.313	0.027	0.008	0.014	0.000000	0.000000	-1822.90	1054.65
2	FID		ACIS-I-6	7.26	4909	0.174	0.041	0.011	0.019	0.000000	0.000000	390.91	1699.47
3	GUIDE	used	262407608	9.33	9806	0.068	0.089	0.167	0.265	207.378401	26.435507	-439.74	-1082.23
4	GUIDE	used	262408096	9.33	9805	0.156	-0.036	0.147	0.254	207.011678	26.515421	-122.00	-2257.38
5	GUIDE	used	262408936	9.63	9804	-0.150	0.102	0.140	0.231	207.154731	26.726554	-1010.19	-2218.64
6	GUIDE	used	262411960	9.64	9810	0.034	-0.097	0.163	0.253	207.327895	25.881727	1384.51	-262.62
7	GUIDE	used	262414456	9.25	9806	-0.103	-0.056	0.141	0.227	208.043290	26.129682	-519.10	1328.37

2.4 Star Slots

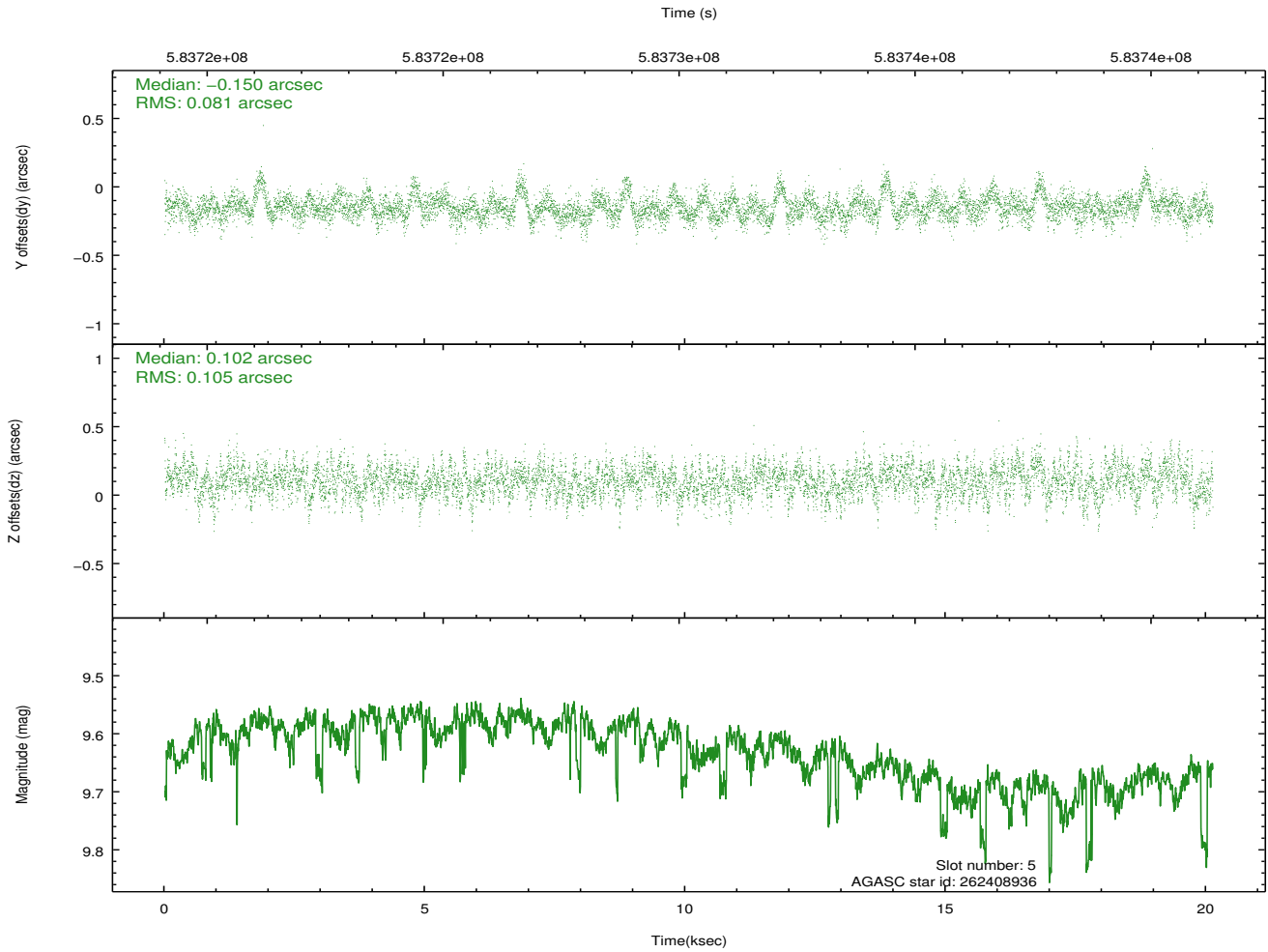
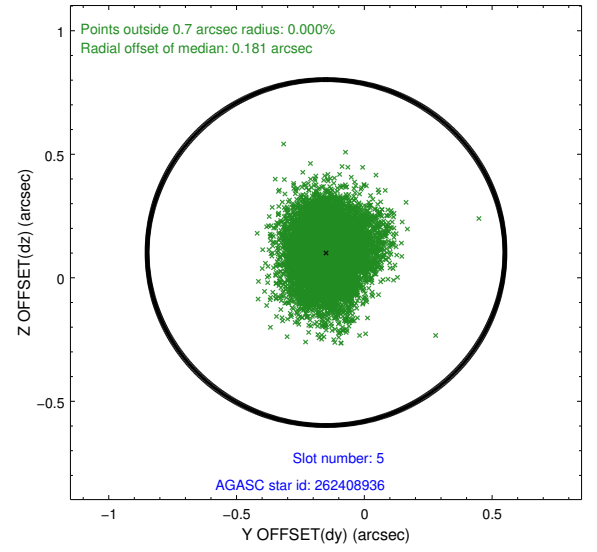
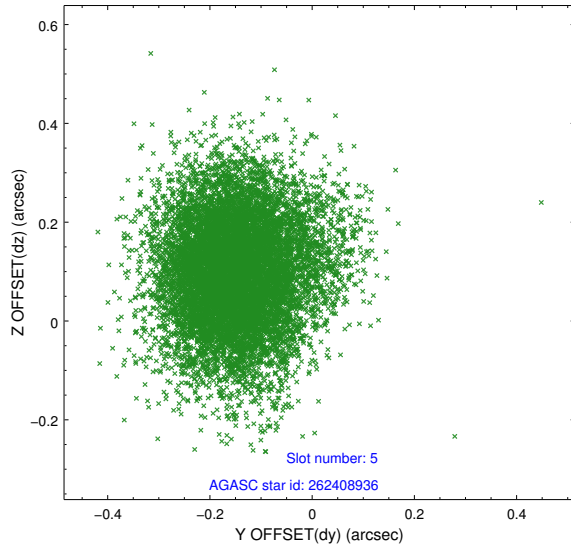
2.4.1 Slot 3



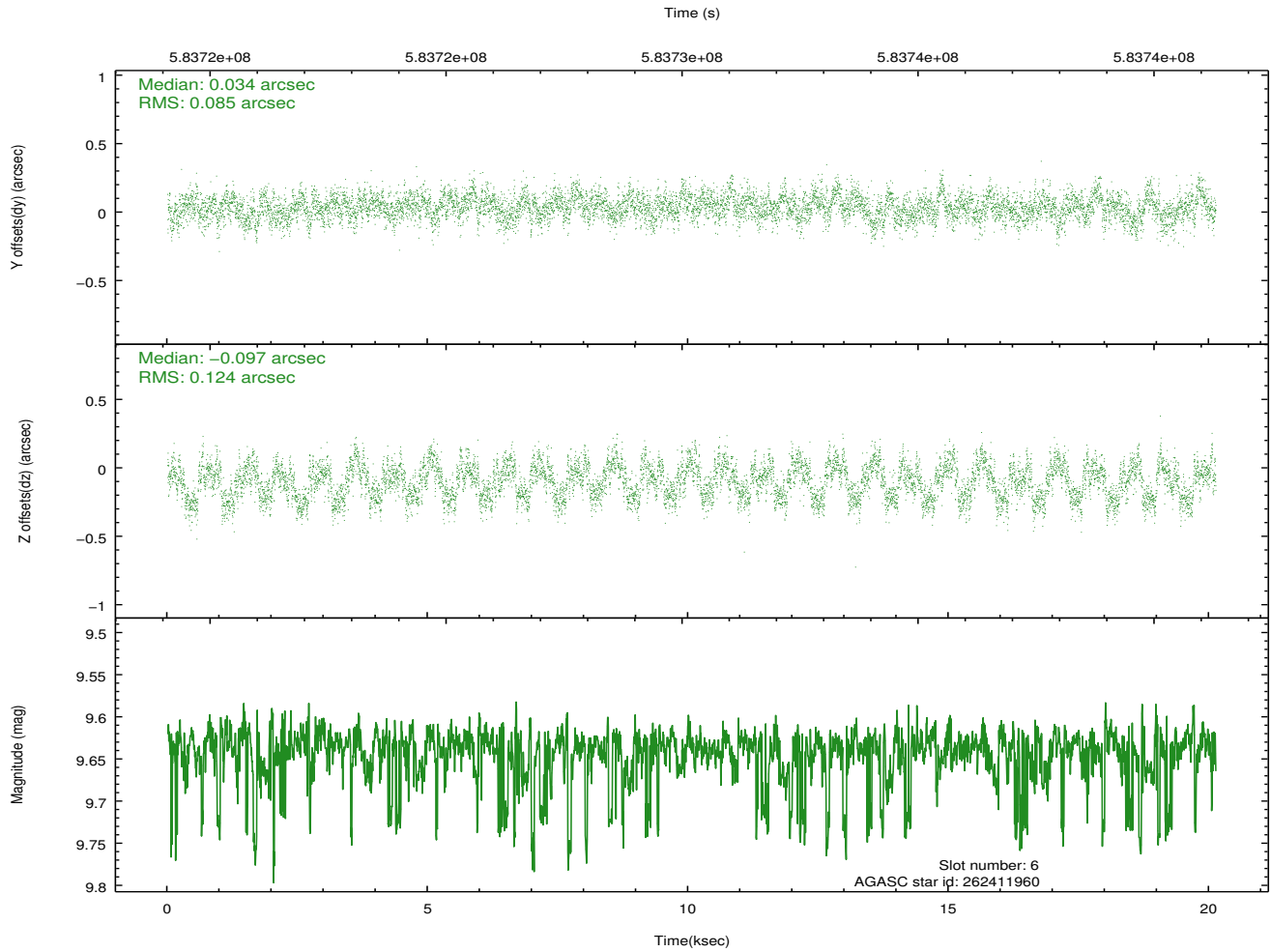
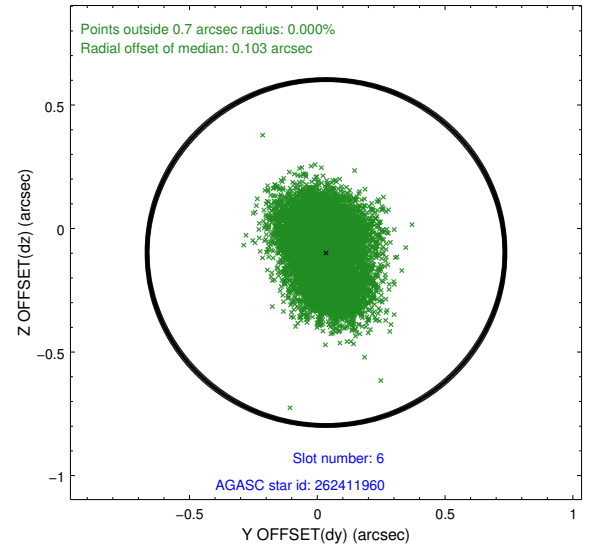
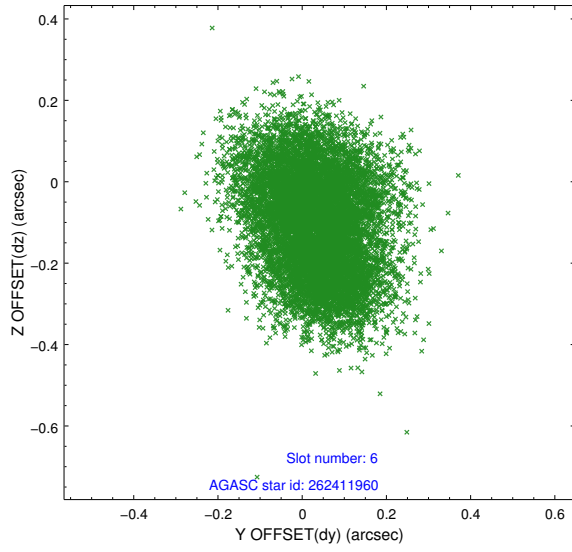
2.4.2 Slot 4



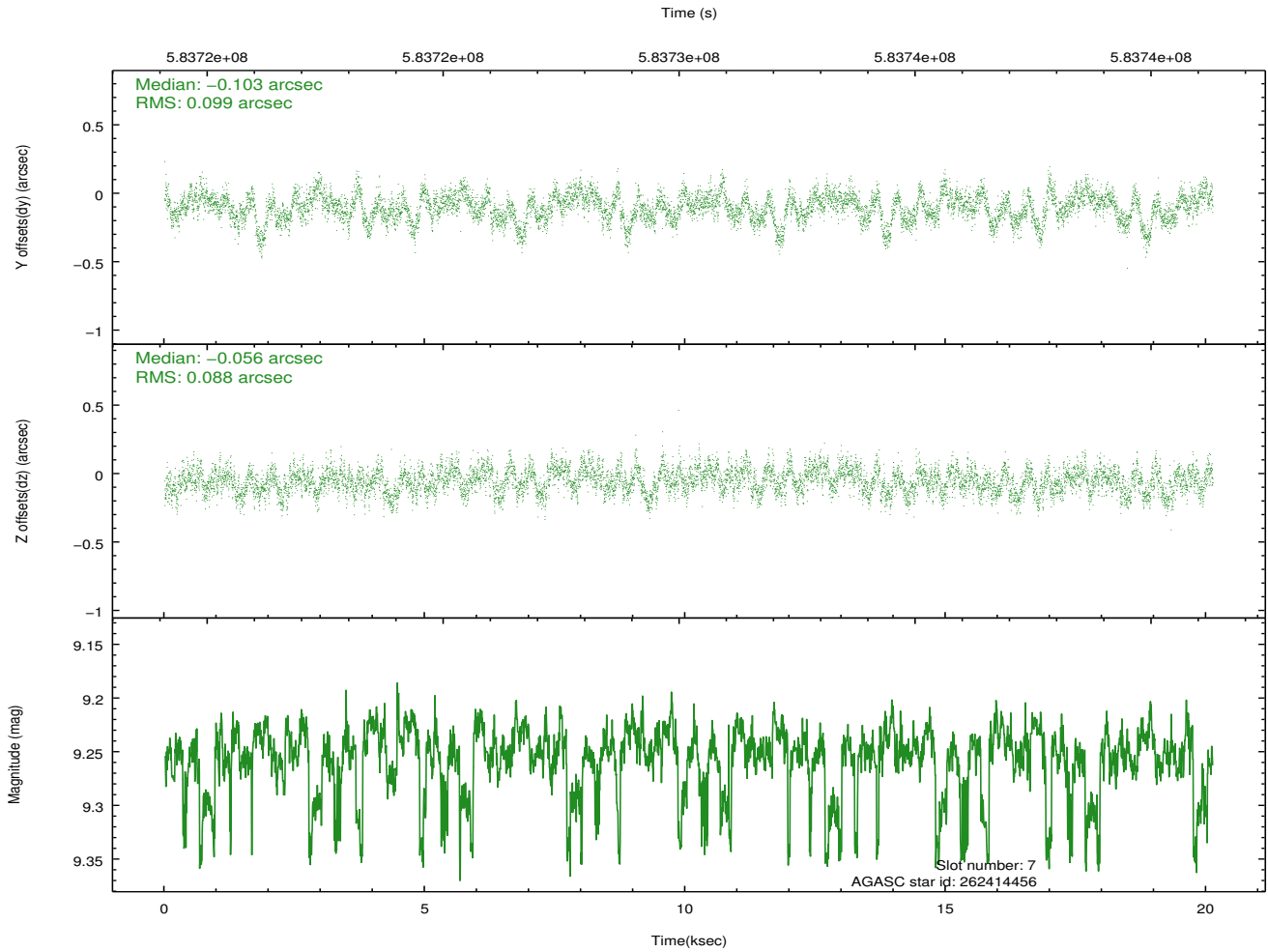
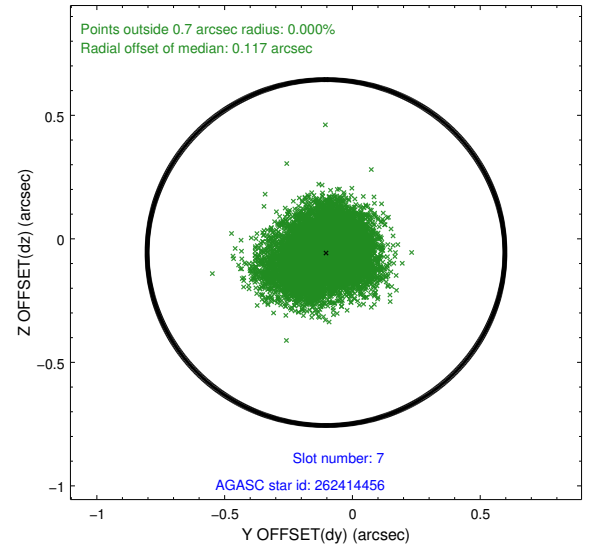
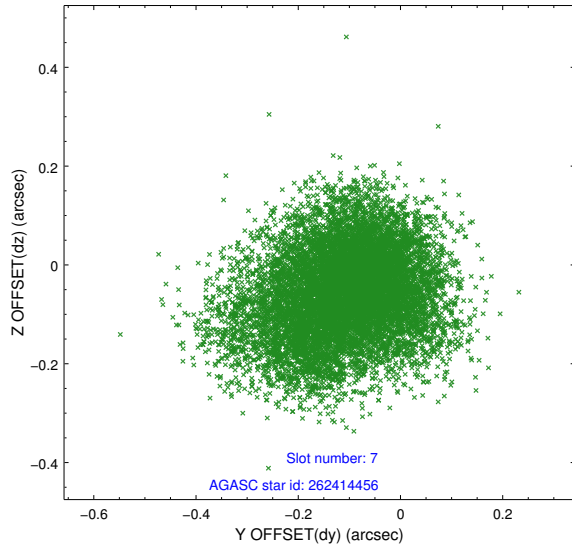
2.4.3 Slot 5



2.4.4 Slot 6

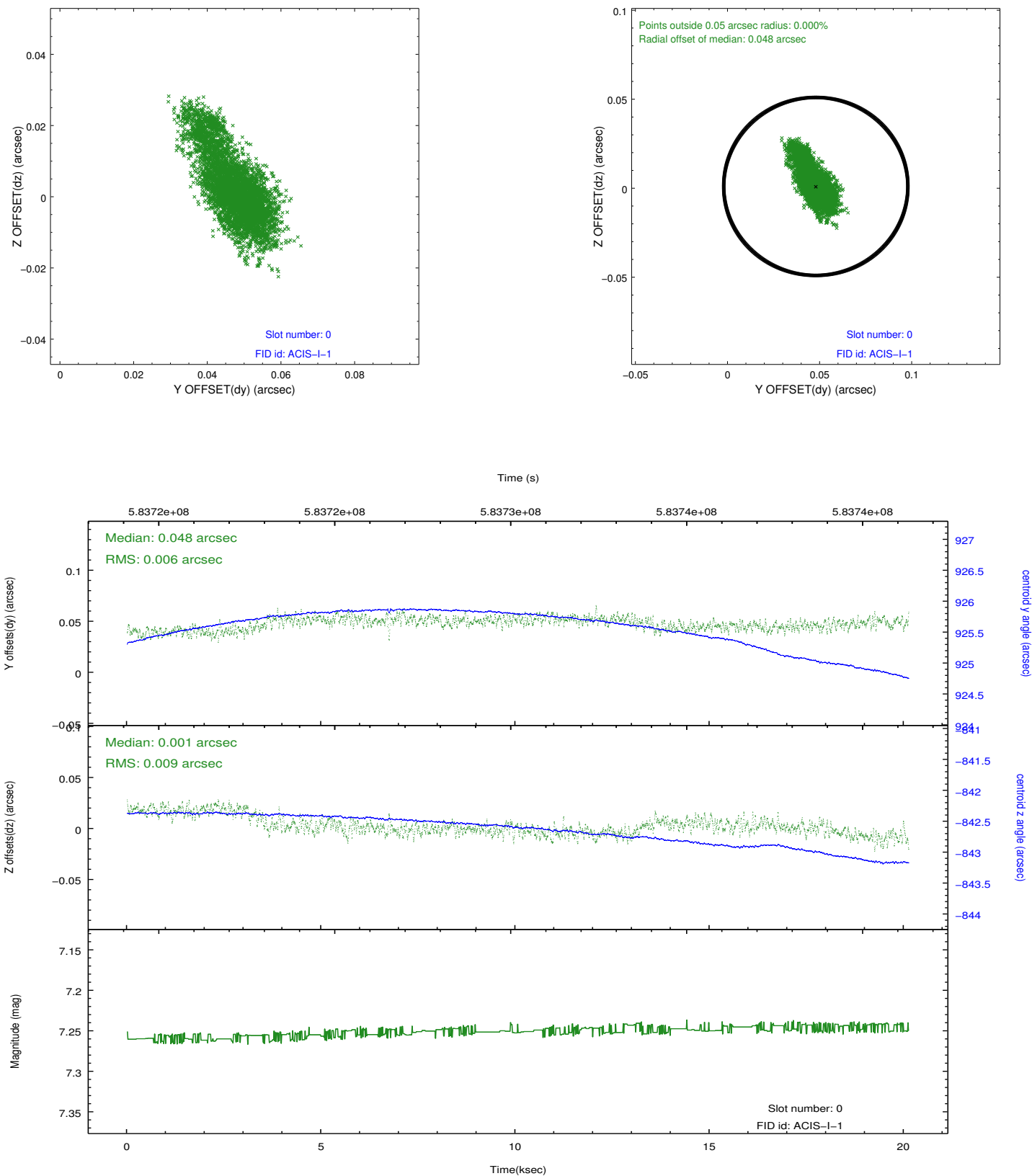


2.4.5 Slot 7

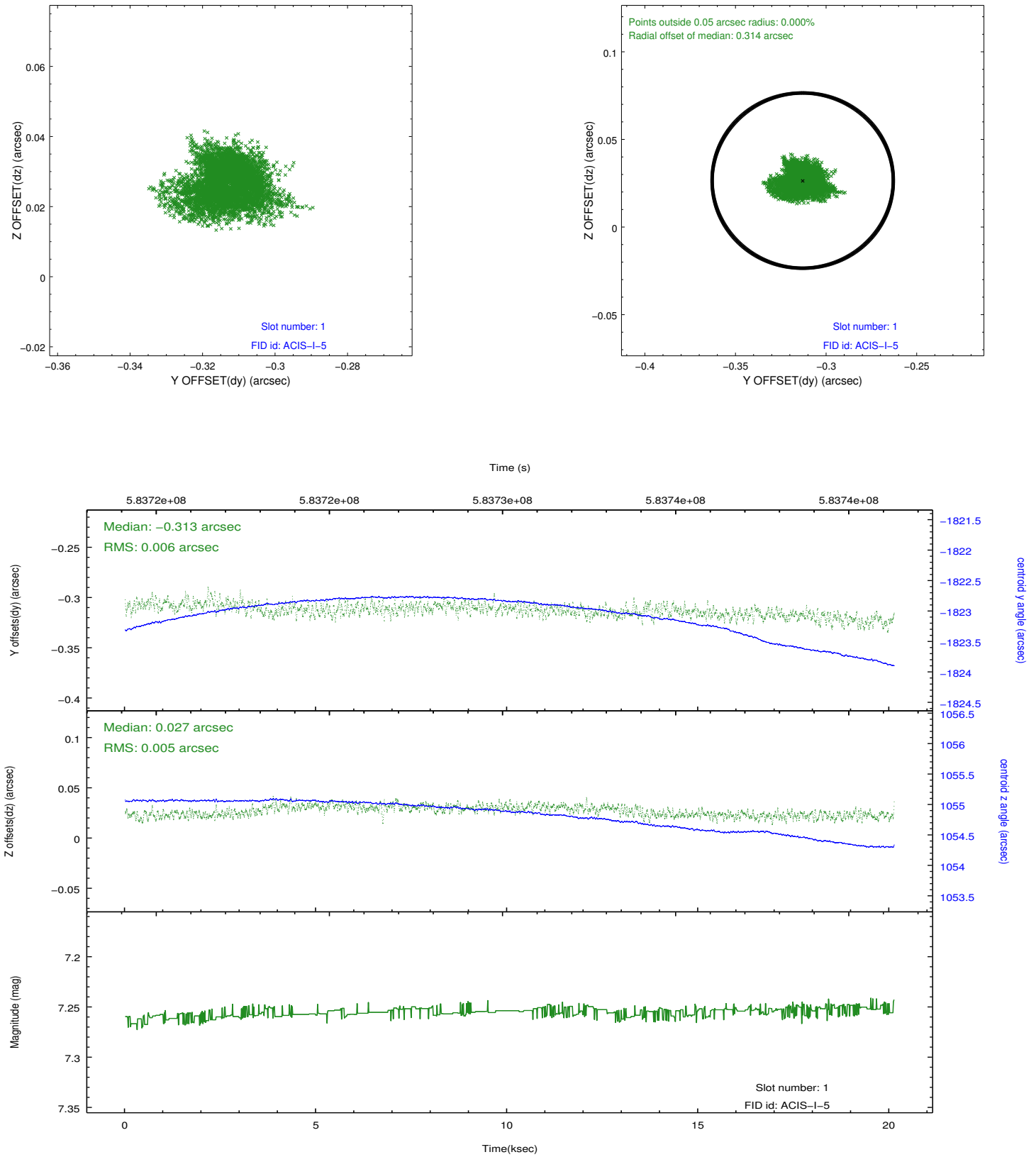


2.5 FID Slots

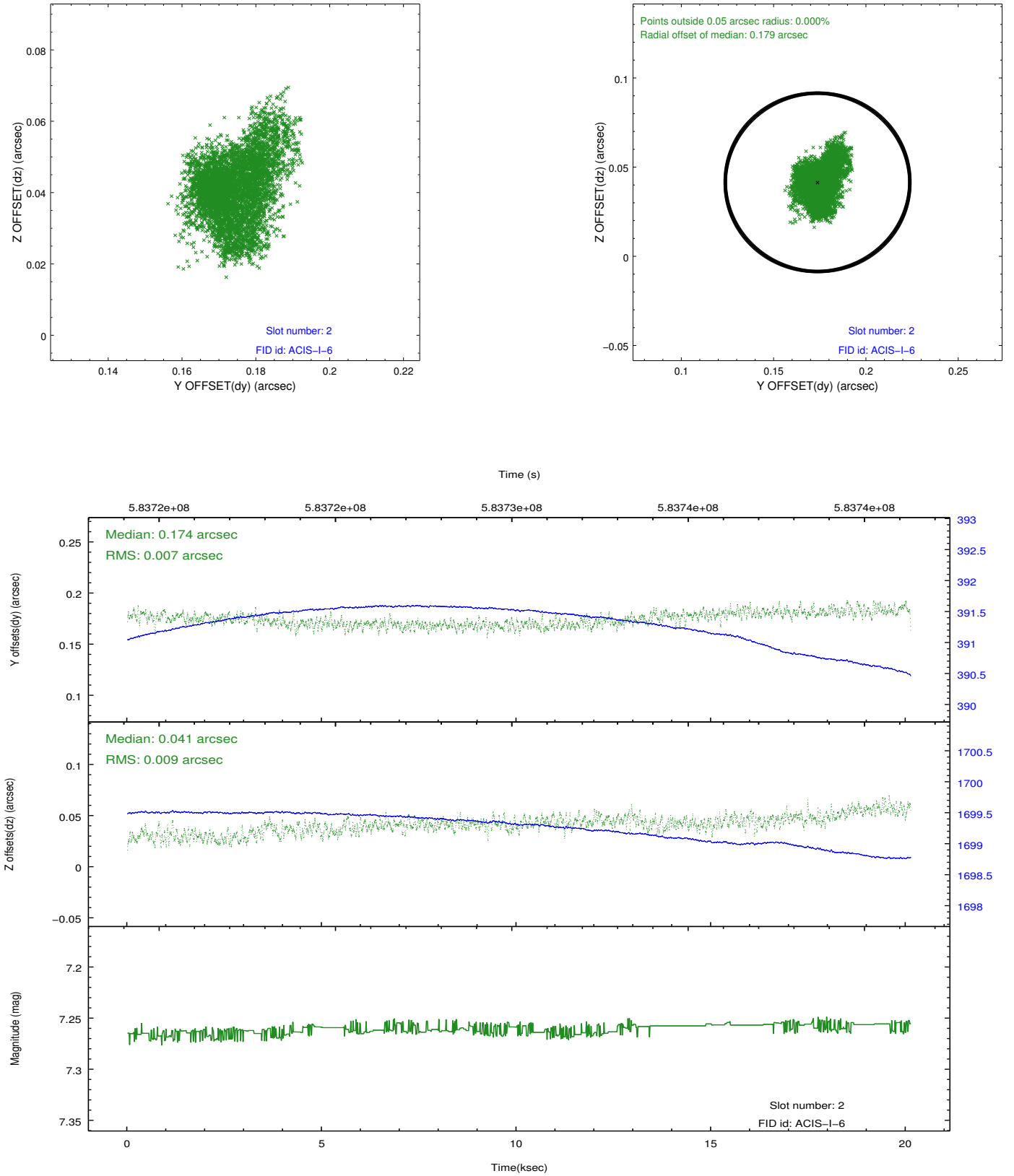
2.5.1 Slot 0



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)	2016.07.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.066218063951

A.2 Comments