

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 22631 - L2 Version 1
Chandra X-Ray Center

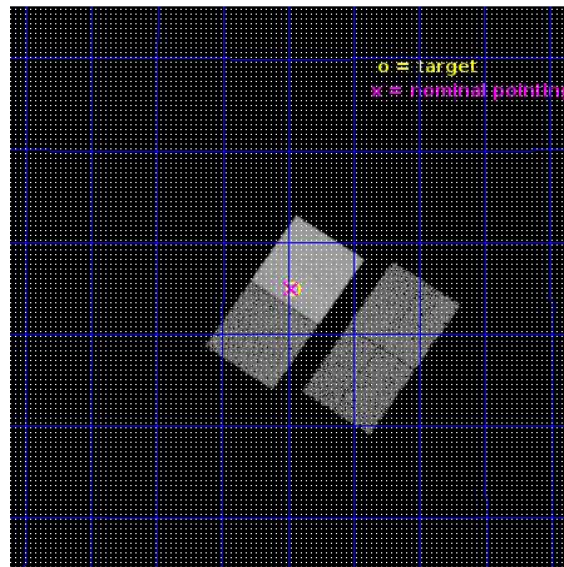
L2 Processing Date : Nov 30 2019

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1 Front

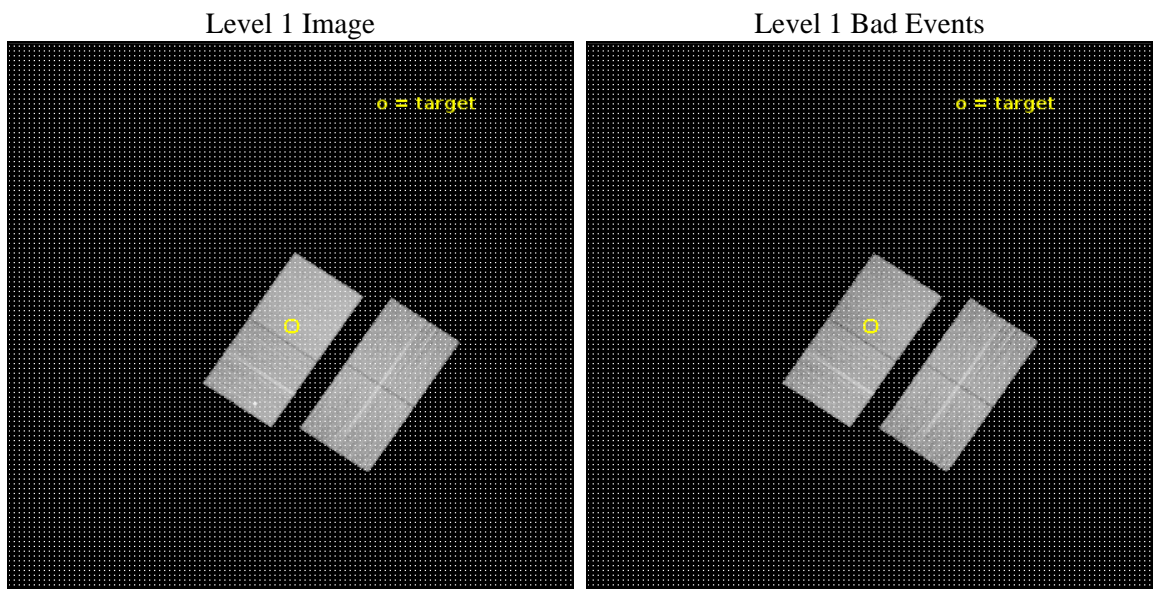
seq_num	704015	Sequence number
obs_id	22631	Observation id
title	XRAYING THE UNKNOWN 3CR EXTRAGALACTIC SKY	Proposal title
observer	Francesco Massaro	Principal investigator
object	3CR 409	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	303.614583	Observer's specified target RA [deg]
dec_targ	23.581806	Observer's specified target Dec [deg]
ra_nom	303.61877586441	Nominal RA [deg]
dec_nom	23.582414267412	Nominal Dec [deg]
roll_nom	303.8912705009	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20068.339980721	Sum of GTIs [s]
livetime	19806.132344776	Livetime [s]
ontime2	20065.075920343	Sum of GTIs [s]
ontime3	20068.257900715	Sum of GTIs [s]
ontime6	20068.298940778	Sum of GTIs [s]
ontime7	20068.339980721	Sum of GTIs [s]
l2events	130547	Number of level 2 events



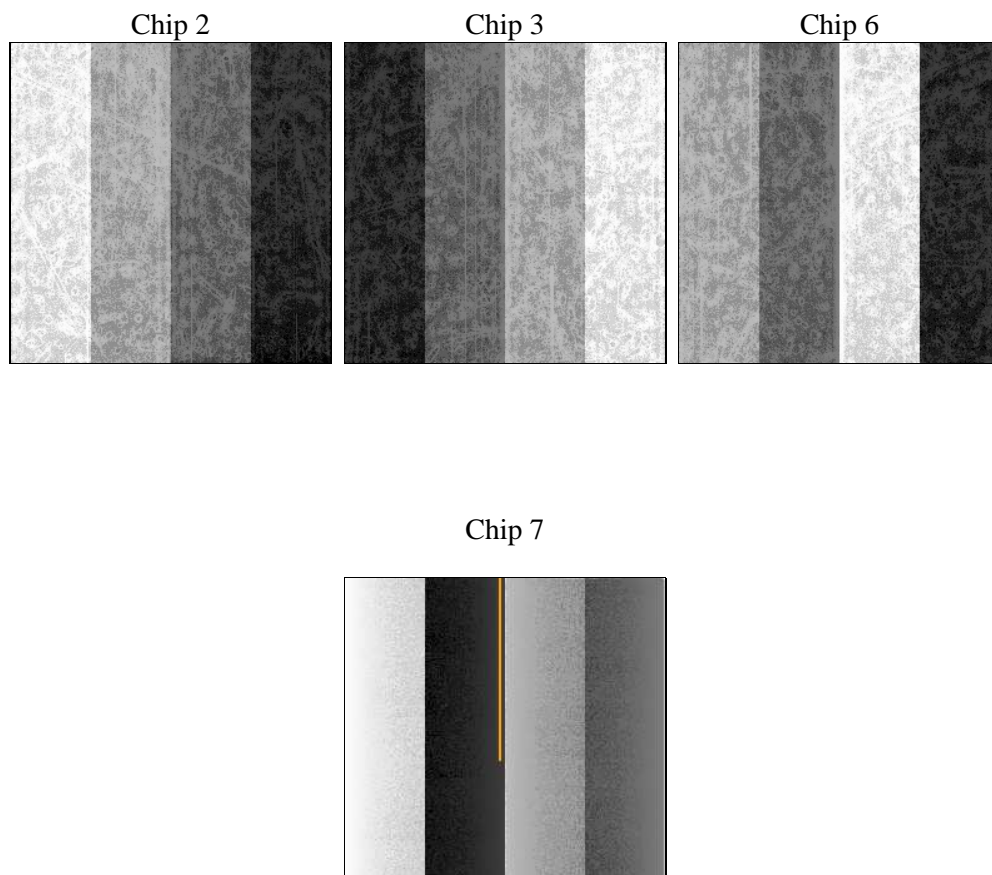
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	20068.339980721	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime2	20065.075920343	Sum of GTIs [s]
date	2019-11-30T05:45:37	Date and time of file creation	ontime3	20068.257900715	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	20068.298940778	Sum of GTIs [s]
			ontime7	20068.339980721	Sum of GTIs [s]
			l1events	655177	Number of level 1 events

2.1.4 Events

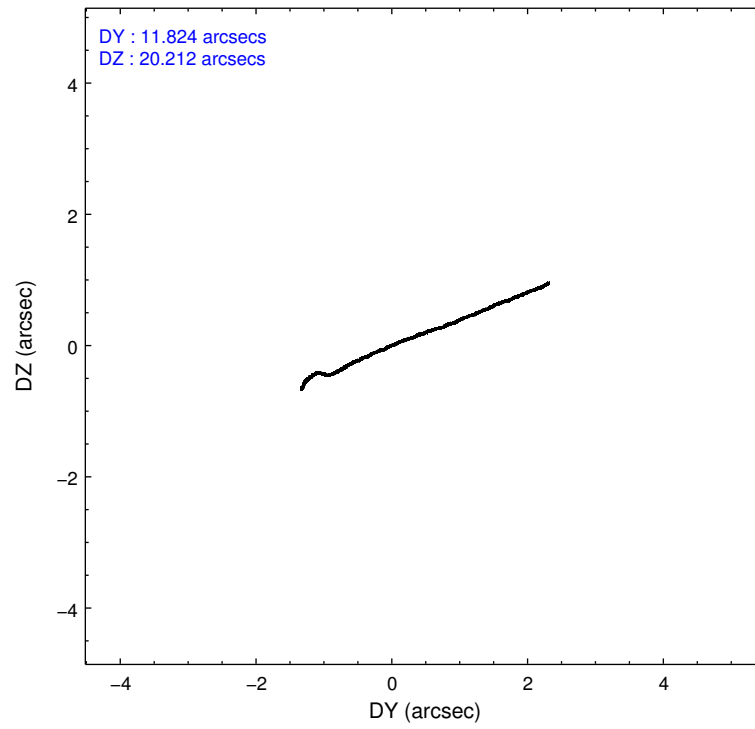
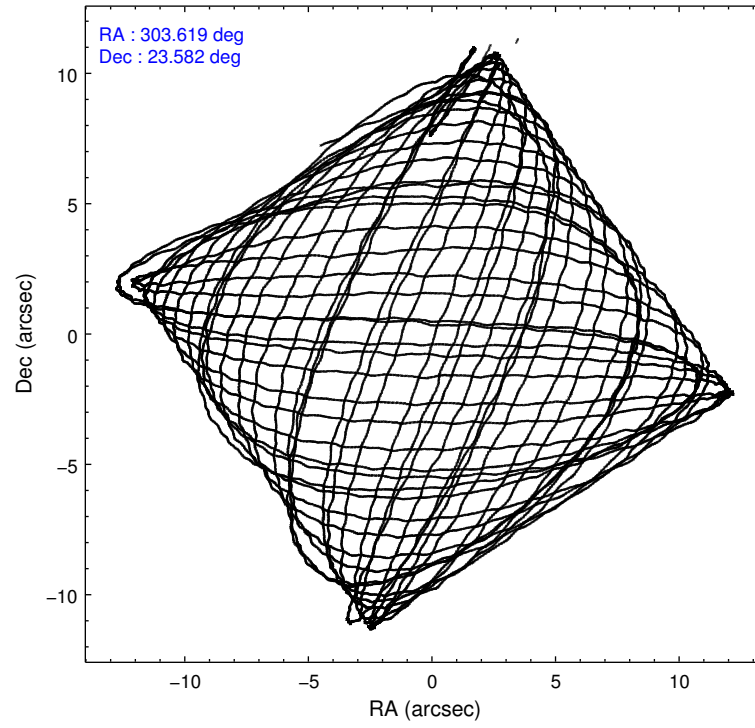
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	151457	145202	157817	200701
rejected events	134591	128896	137606	112043
rejected %	88%	88%	87%	55%

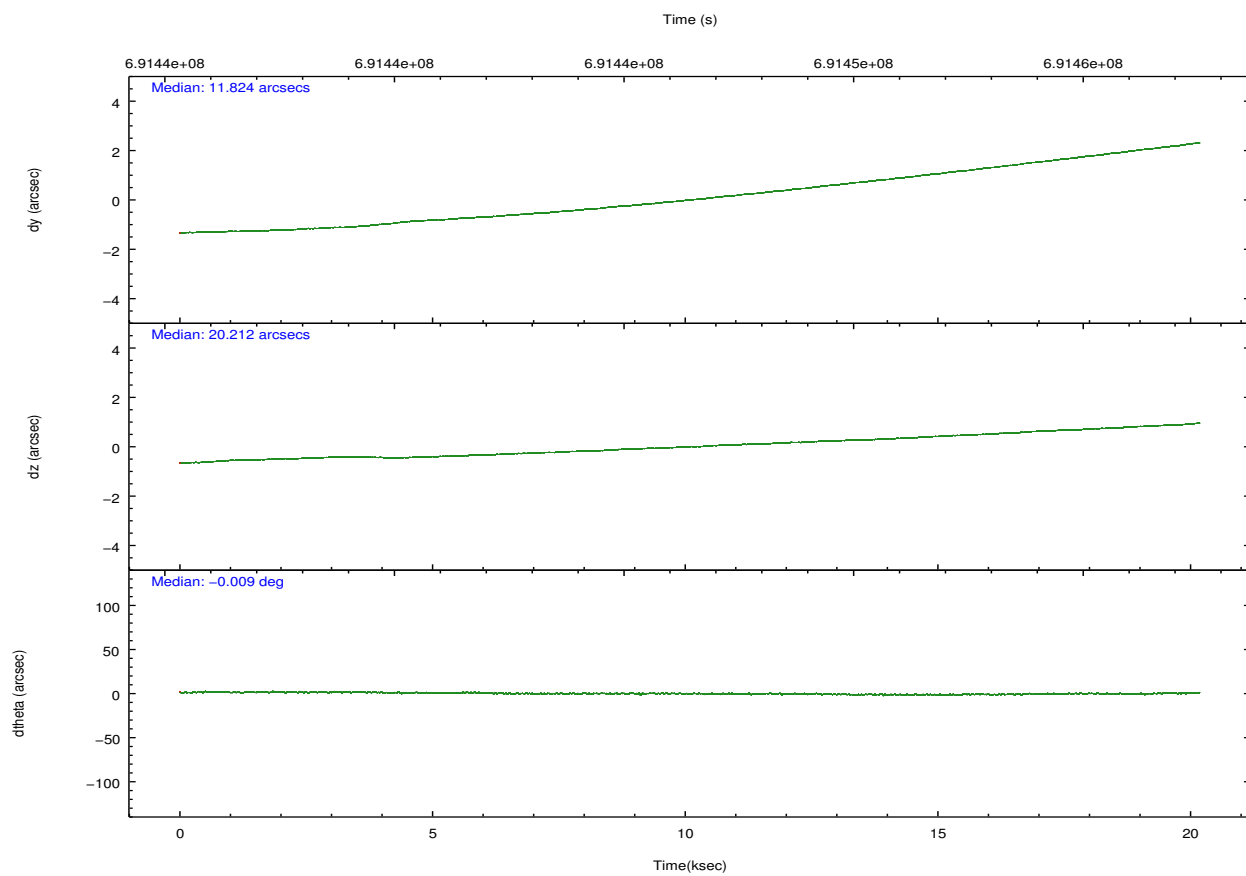
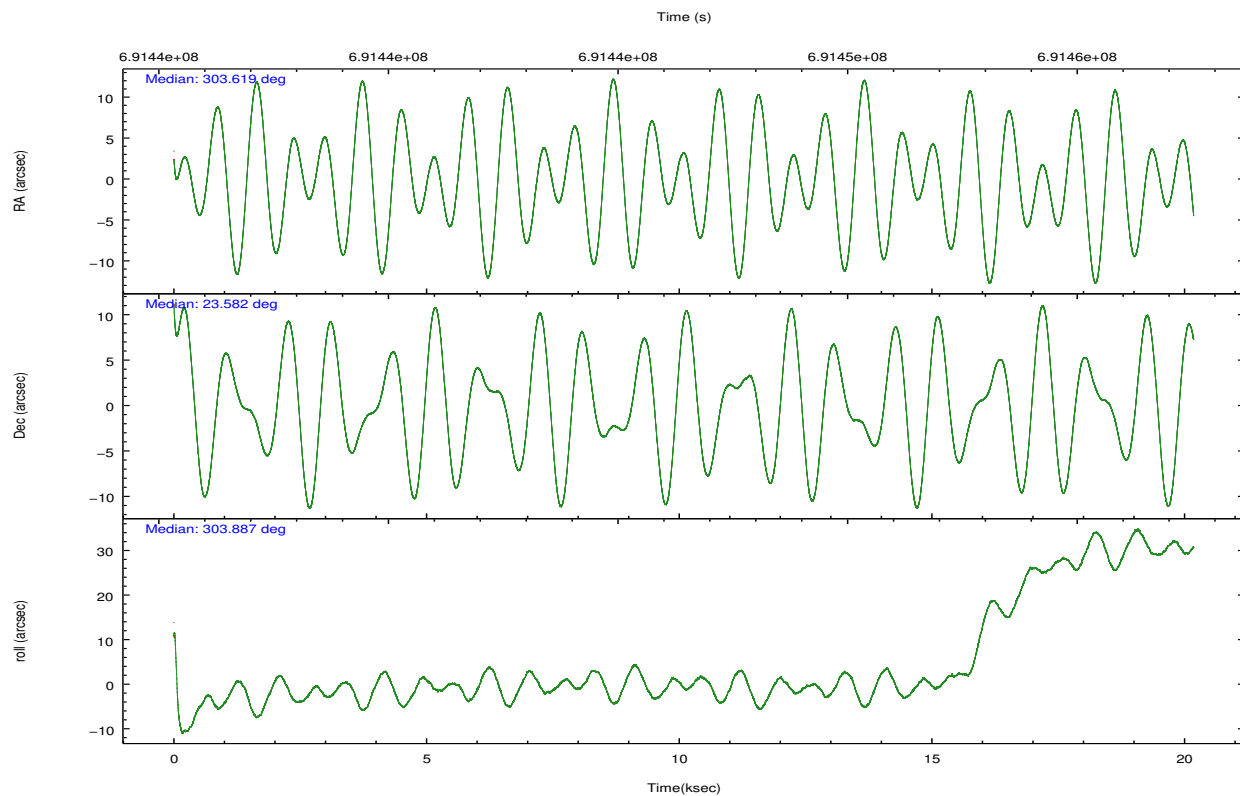
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	5924	5934	5887	7715
	3%	4%	3%	3%
grade 1 events	95	84	83	311
	0%	0%	0%	0%
grade 2 events	4163	3589	6779	19417
	2%	2%	4%	9%
grade 3 events	1664	1663	1699	6887
	1%	1%	1%	3%
grade 4 events	1798	1678	1706	6830
	1%	1%	1%	3%
grade 5 events	6368	7399	7410	19576
	4%	5%	4%	9%
grade 6 events	3325	3449	4149	47838
	2%	2%	2%	23%
grade 7 events	128120	121406	130104	92127
	84%	83%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	303.591694	303.6187758644089	CCD I2 on	O1	Y
[deg] Pointing Dec	23.594132	23.58241426741161	CCD I3 on	O2	Y
[deg] Pointing Roll	303.745463	303.8912705008967	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	691436515.184000	691435298.26209	CCD S5 on	N	N
Observation start date	2019-11-29T17:40:46	2019-11-29T17:21:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	691456515.184000	691457440.31343	On-chip summing requested	N	N
Observation end date	2019-11-29T23:14:06	2019-11-29T23:30:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



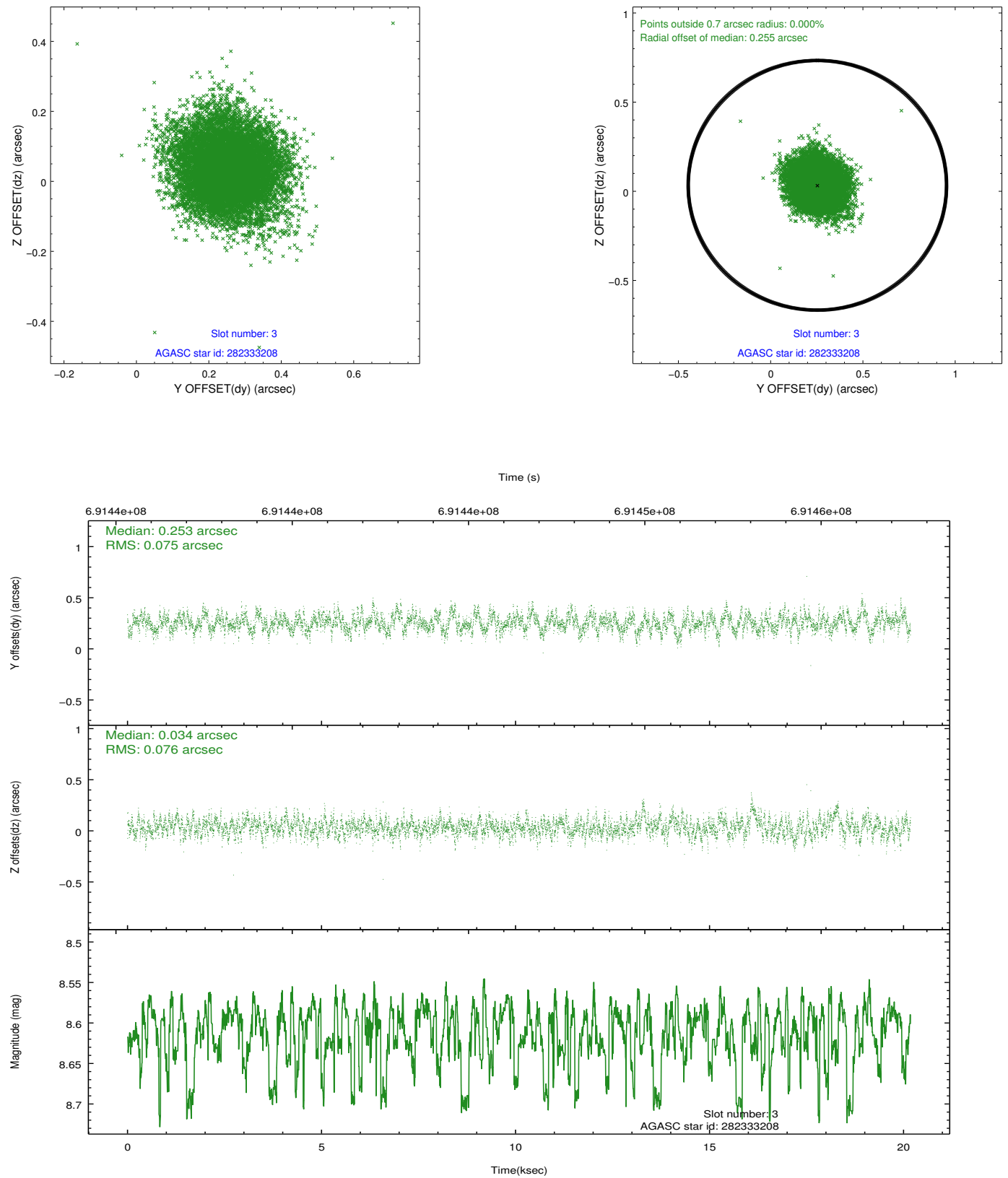


Slot Statistics

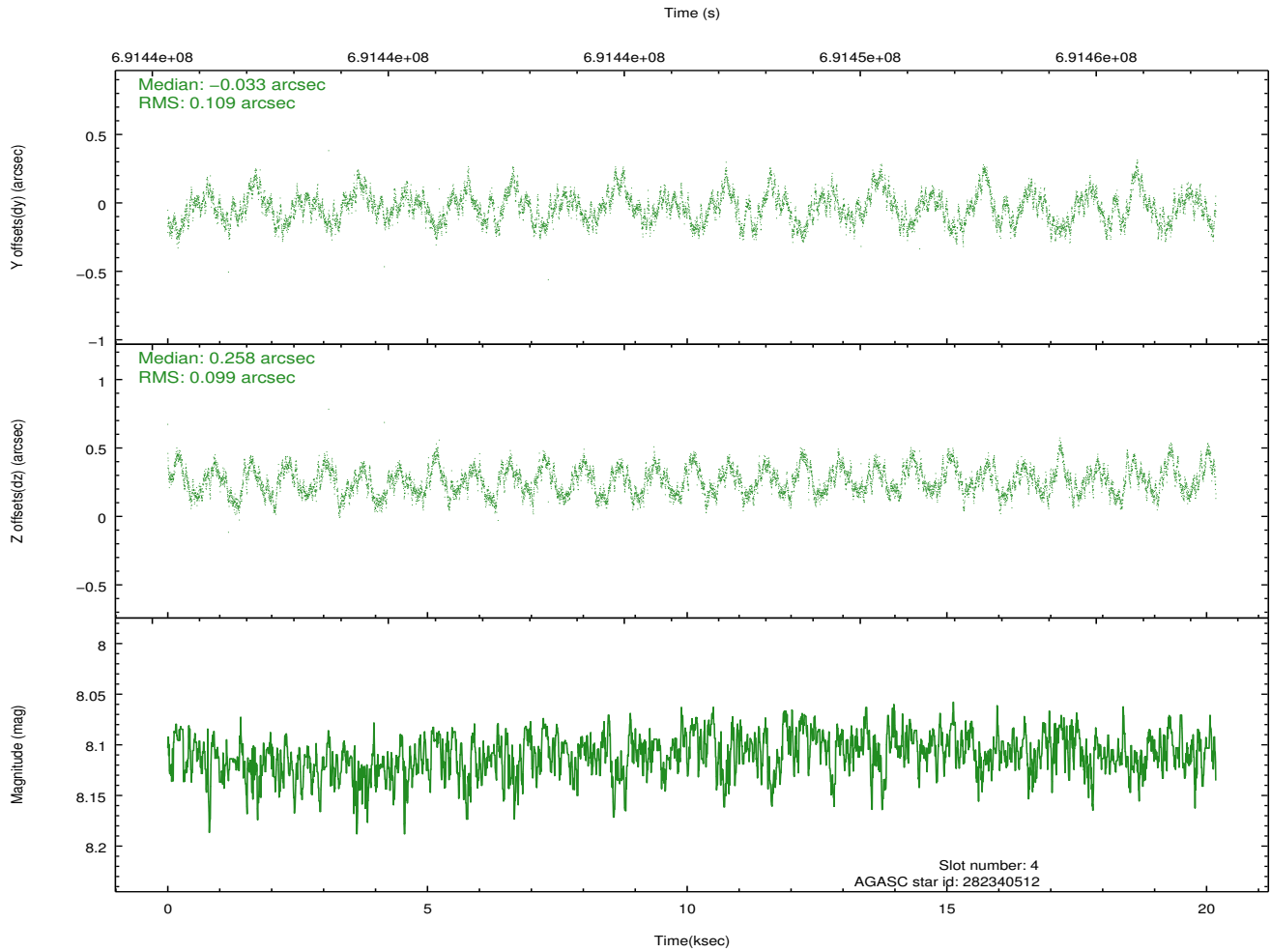
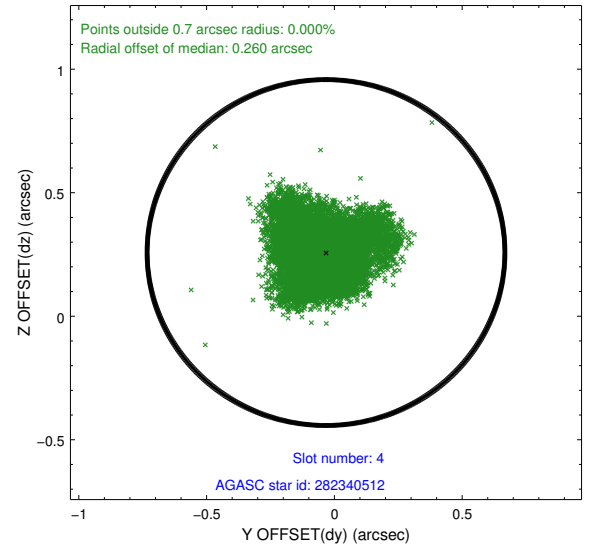
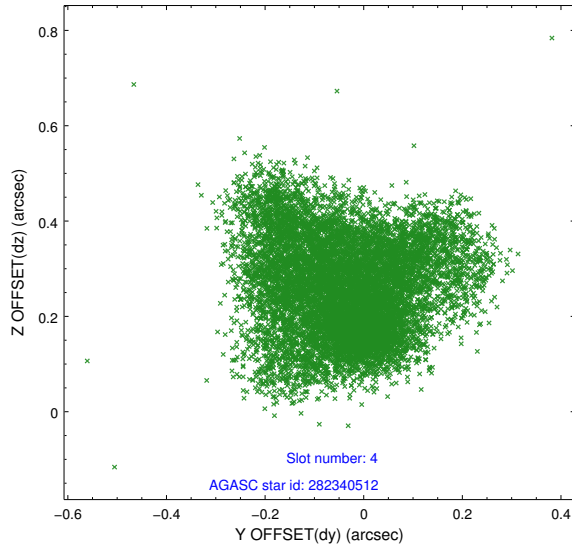
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.08	4923	1.000	-0.000	-0.100	0.047	0.060	0.000000	0.000000	931.26	-1737
1	FID		ACIS-S-4	7.12	4923	1.000	0.500	0.070	0.026	0.066	0.000000	0.000000	2149.17	166
2	FID		ACIS-S-5	7.10	4923	1.000	-0.524	0.038	0.057	0.113	0.000000	0.000000	-1818.04	160
3	GUIDE	used	282333208	8.61	9836	1.000	0.253	0.034	0.114	0.185	303.357071	23.453630	-9.36	-924
4	GUIDE	used	282340512	8.11	9836	1.000	-0.033	0.258	0.158	0.252	303.009240	23.919110	-2040.16	-941
5	GUIDE	used	282351432	8.40	9838	1.000	0.142	-0.129	0.107	0.194	303.271000	23.214019	548.45	-1641
6	GUIDE	used	282466008	7.12	9844	1.000	-0.449	-0.402	0.096	0.152	303.874970	23.741999	75.39	1072
7	GUIDE	used	282352016	8.52	9840	1.000	0.090	0.243	0.138	0.214	303.110271	23.794460	-1481.99	-916

2.4 Star Slots

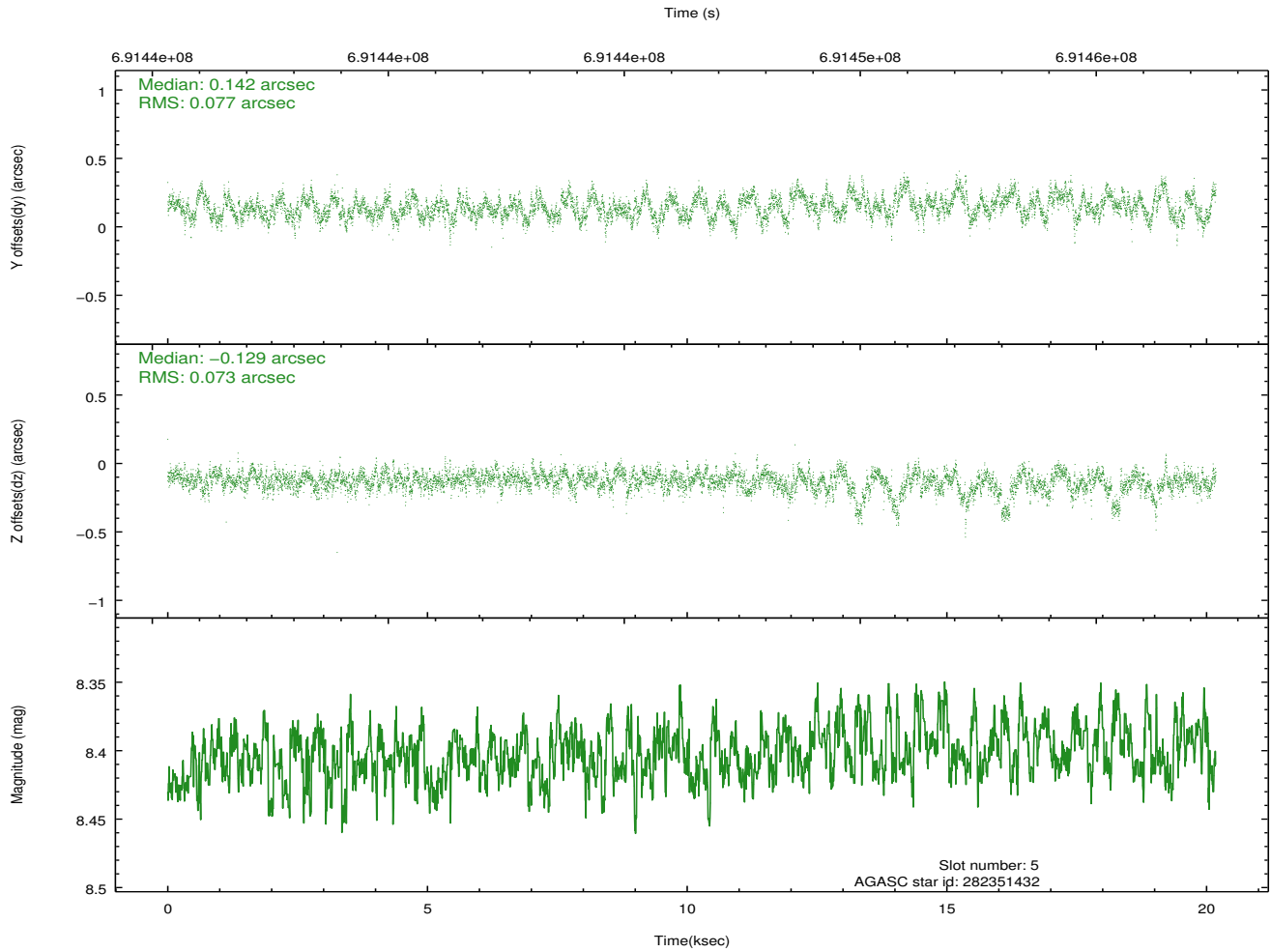
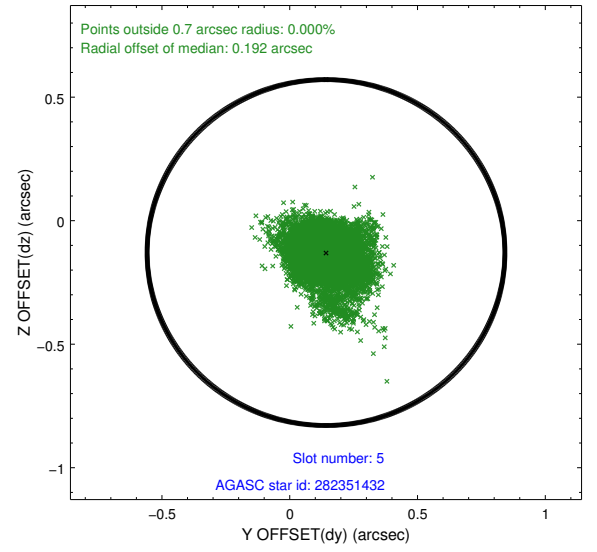
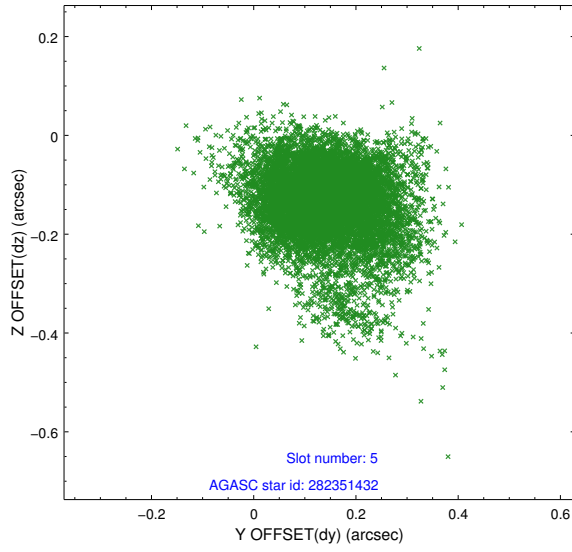
2.4.1 Slot 3



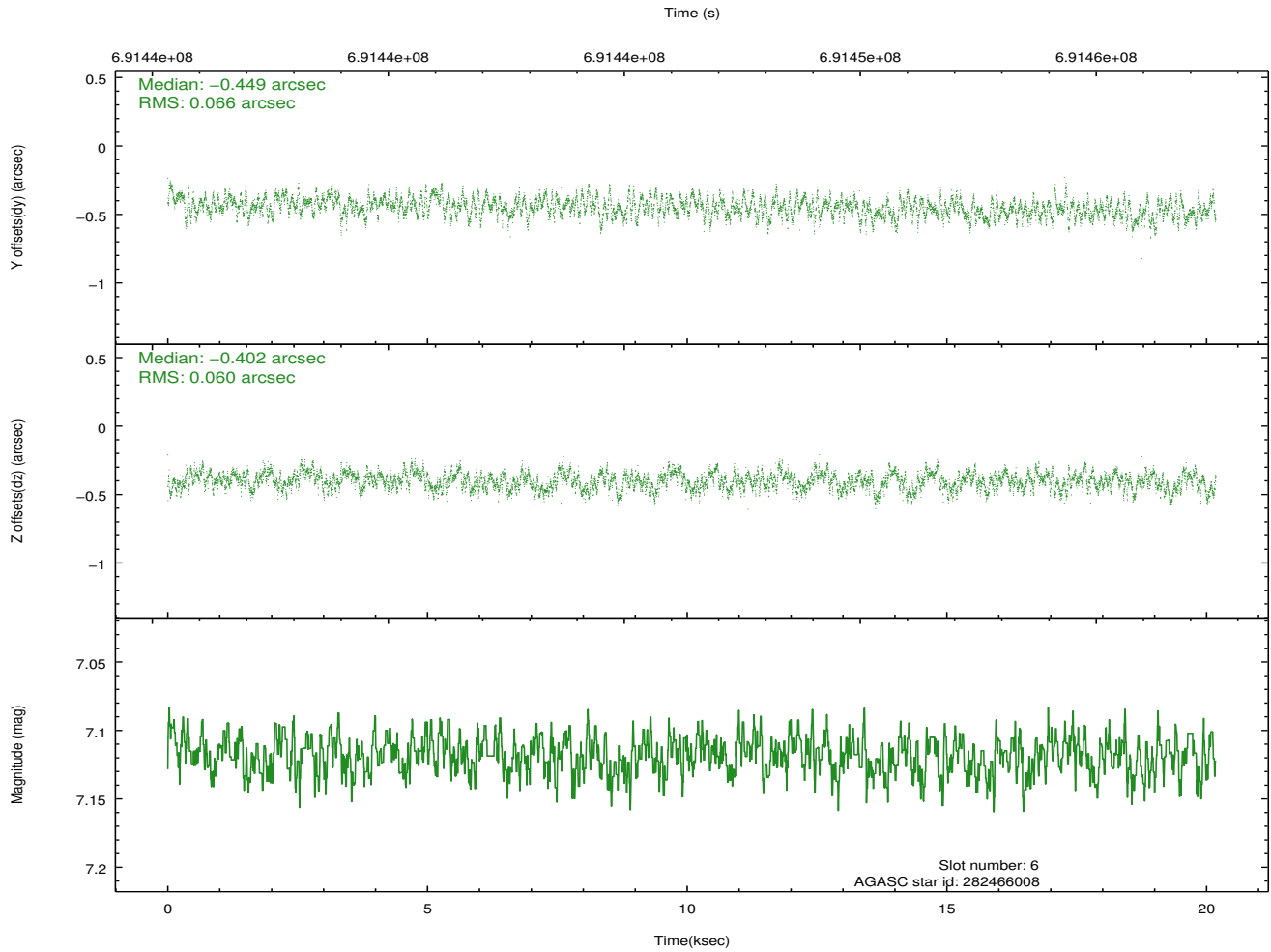
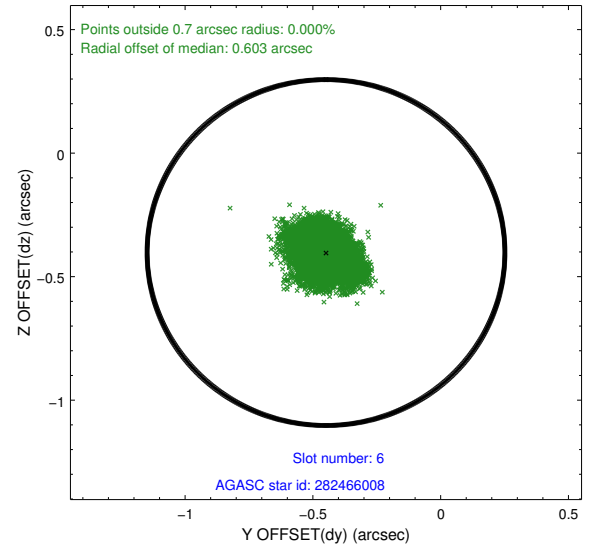
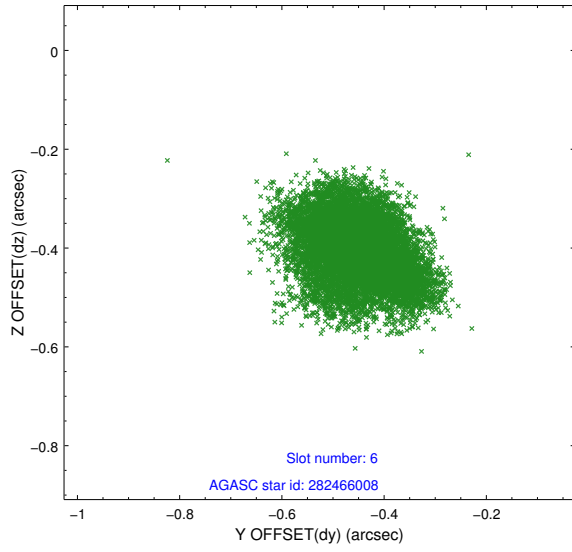
2.4.2 Slot 4



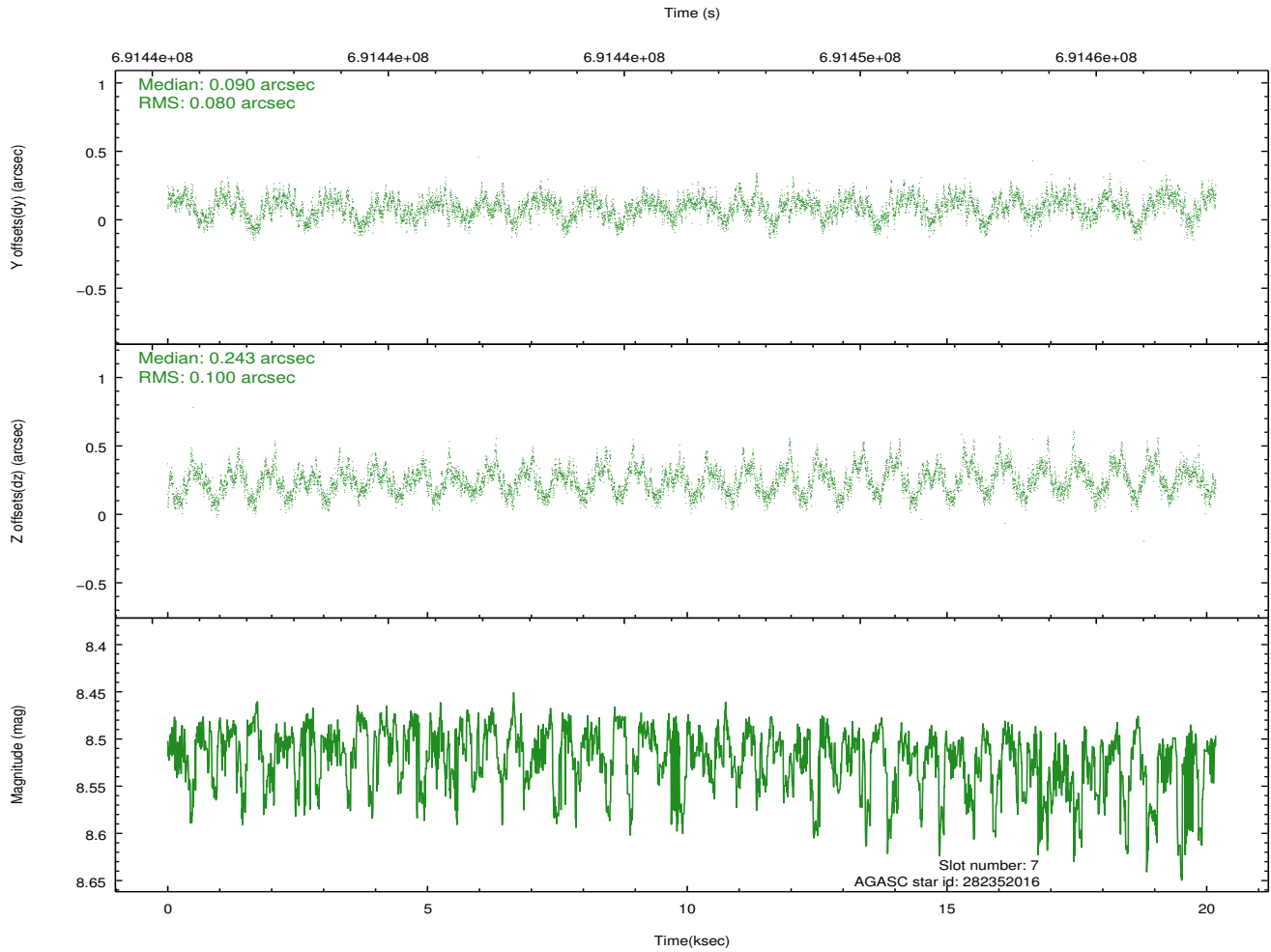
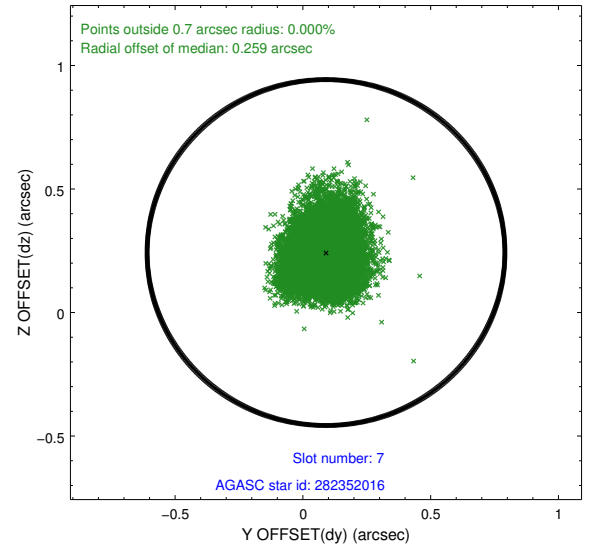
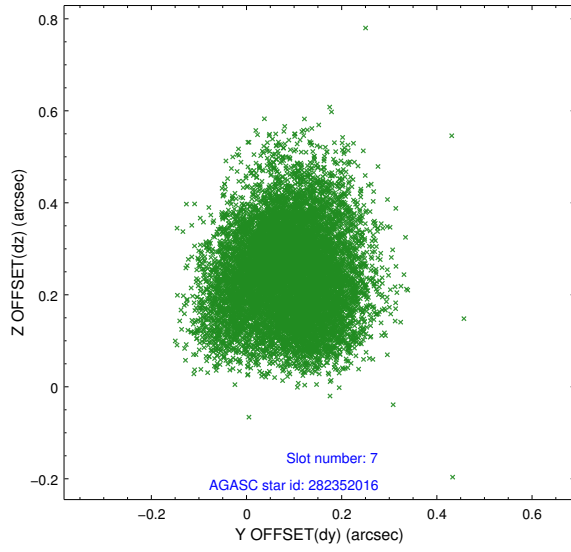
2.4.3 Slot 5



2.4.4 Slot 6

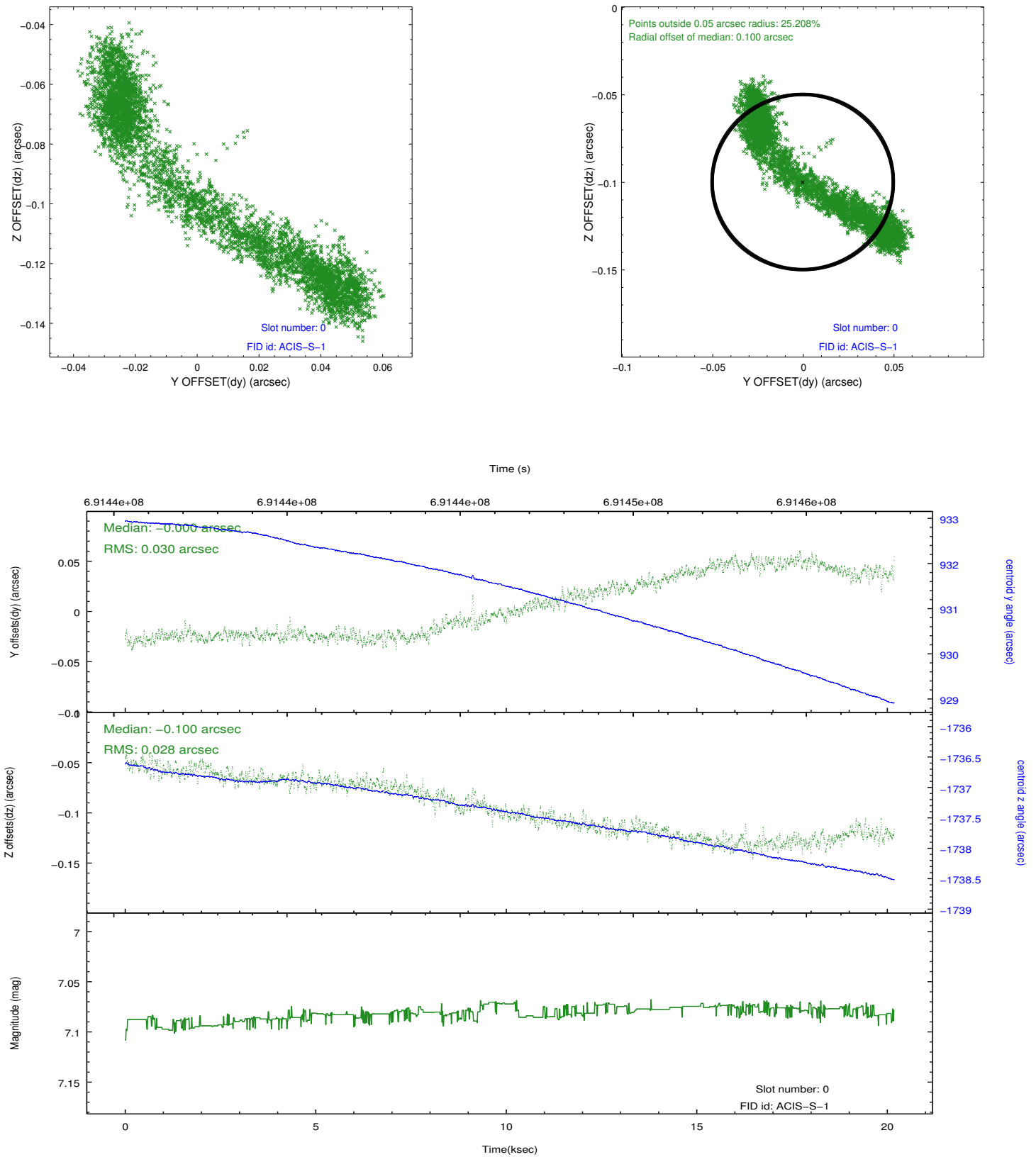


2.4.5 Slot 7

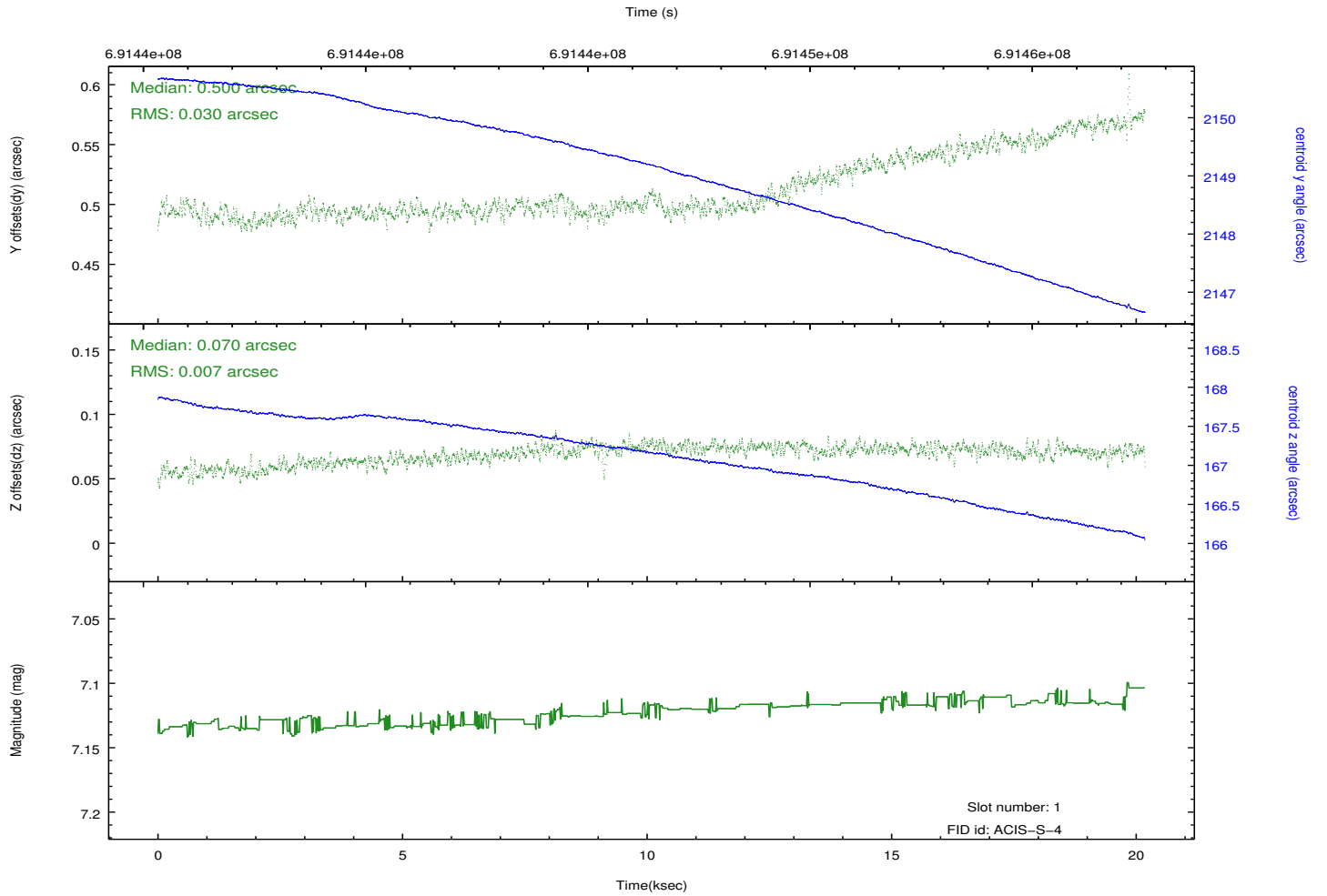
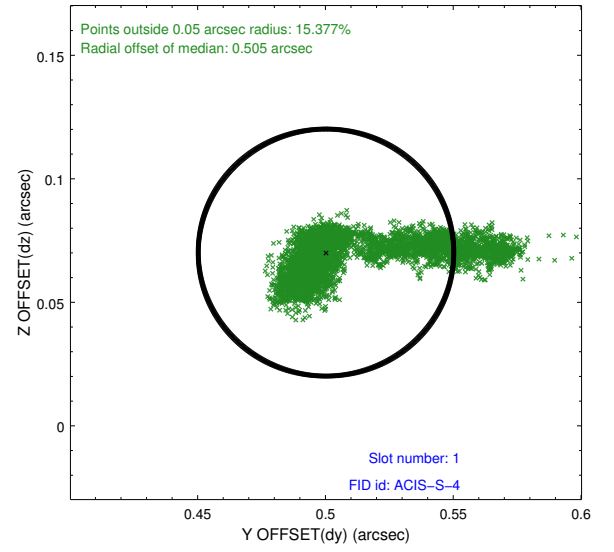
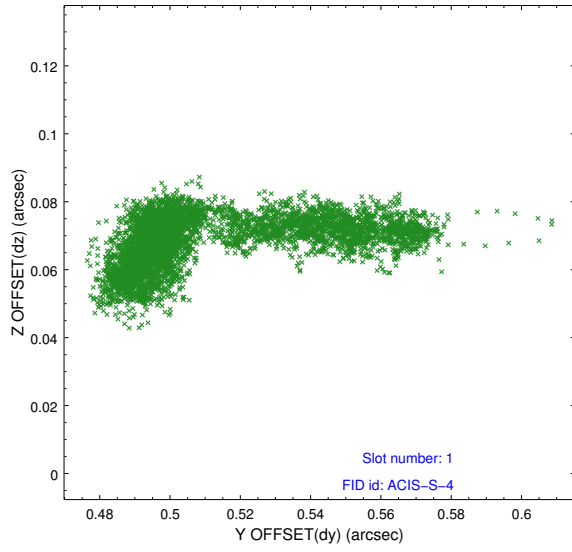


2.5 FID Slots

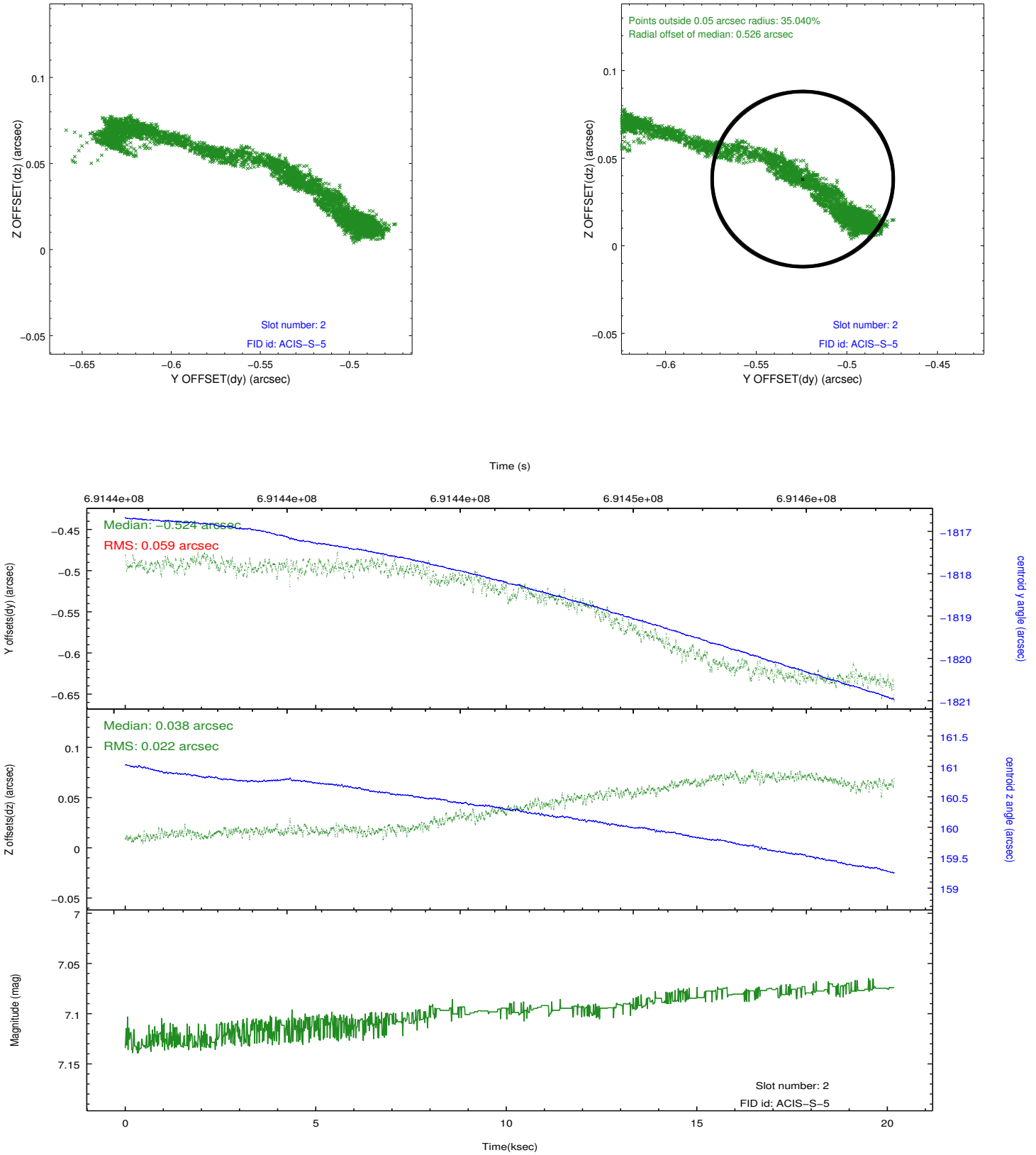
2.5.1 Slot 0



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)	2019.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.068339980721

A.2 Comments