

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19463 - L2 Version 1
Chandra X-Ray Center

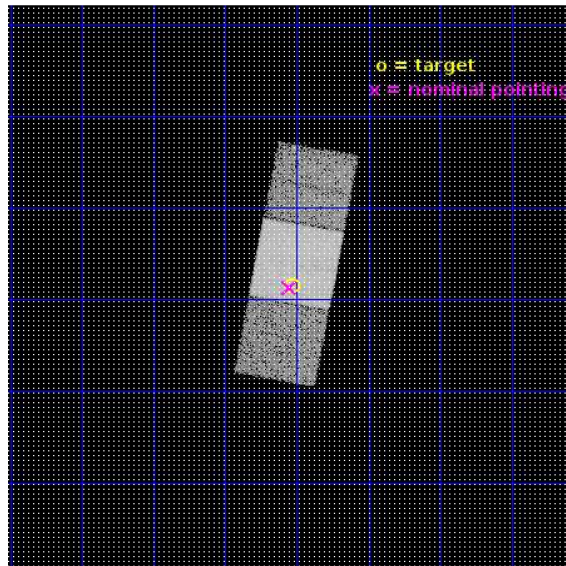
L2 Processing Date : Mar 11 2017

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1 Front

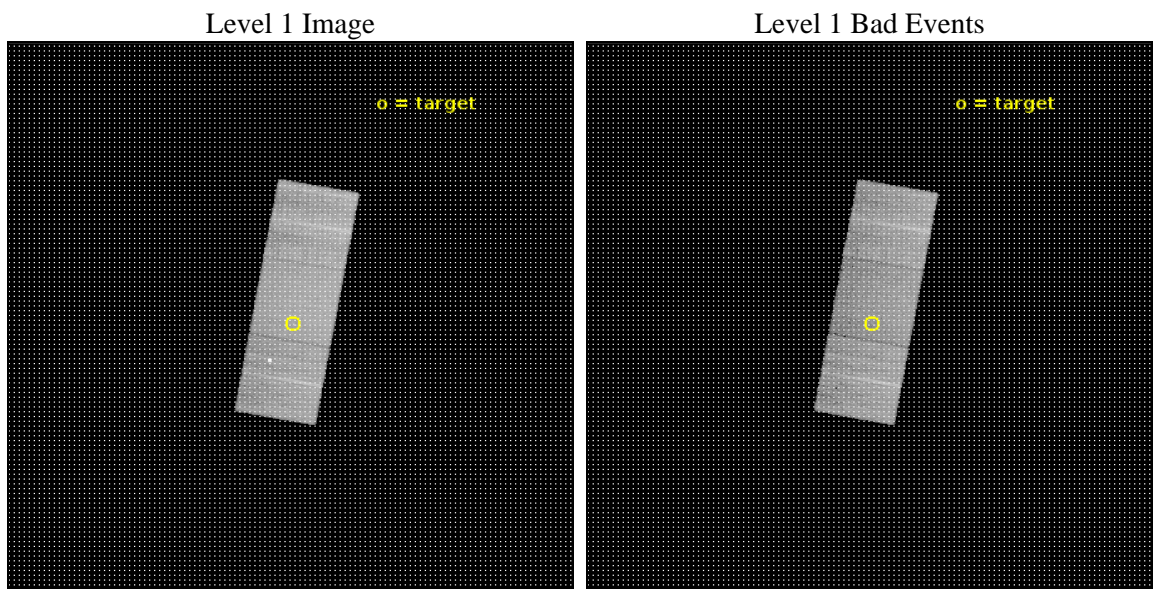
seq_num	703312	Sequence number
obs_id	19463	Observation id
title	Searching for intermediate-mass black holes in extremely-metal poor galaxies	Proposal title
observer	Mar Mezcua	Principal investigator
object	J094401.86-003832.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	146.007917	Observer's specified target RA [deg]
dec_targ	-0.64225	Observer's specified target Dec [deg]
ra_nom	146.01291577371	Nominal RA [deg]
dec_nom	-0.64535202336138	Nominal Dec [deg]
roll_nom	280.27429659745	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15075.115914583	Sum of GTIs [s]
livetime	14878.14842702	Livetime [s]
ontime6	15075.07487464	Sum of GTIs [s]
ontime7	15075.115914583	Sum of GTIs [s]
ontime8	15075.033834577	Sum of GTIs [s]
l2events	81383	Number of level 2 events



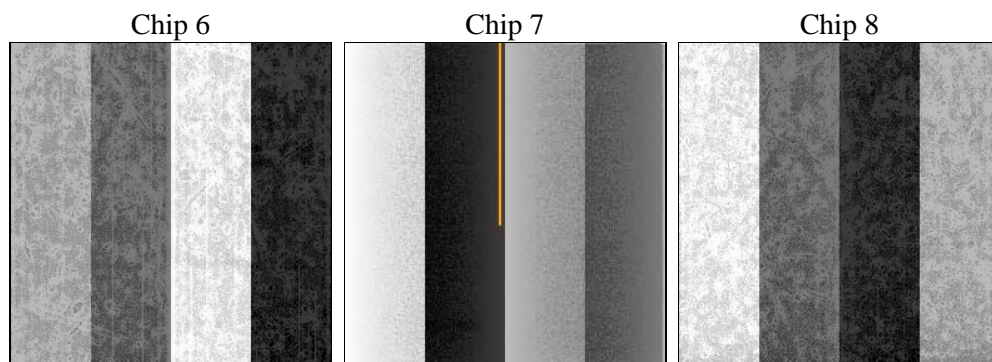
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	15075.115914583	Sum of GTIs [s]
caldsver	4.7.3	 	ontime6	15075.07487464	Sum of GTIs [s]
date	2017-03-11T19:03:46	Date and time of file creation	ontime7	15075.115914583	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	15075.033834577	Sum of GTIs [s]
			l1events	400632	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	118198	139426	143008
rejected events	101405	78309	104566
rejected %	85%	56%	73%

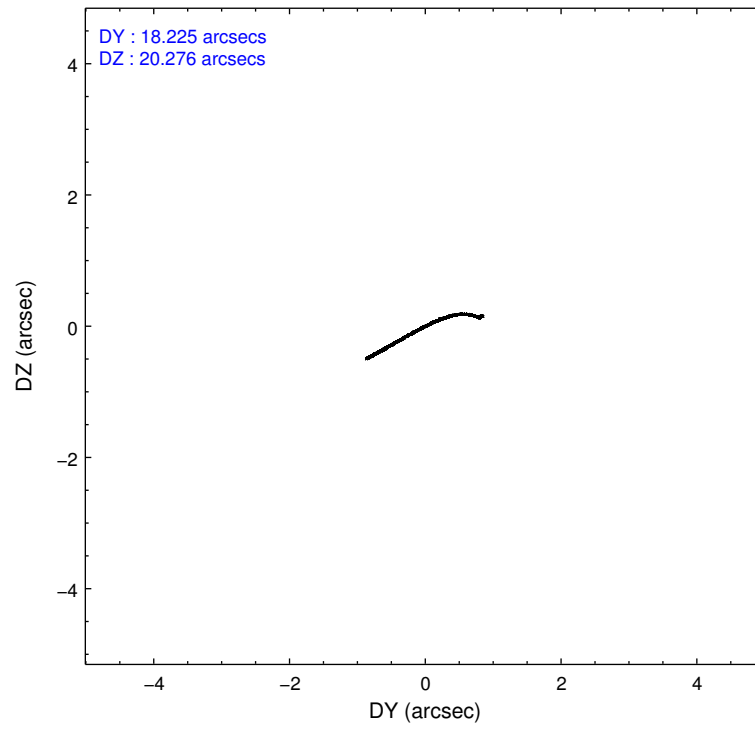
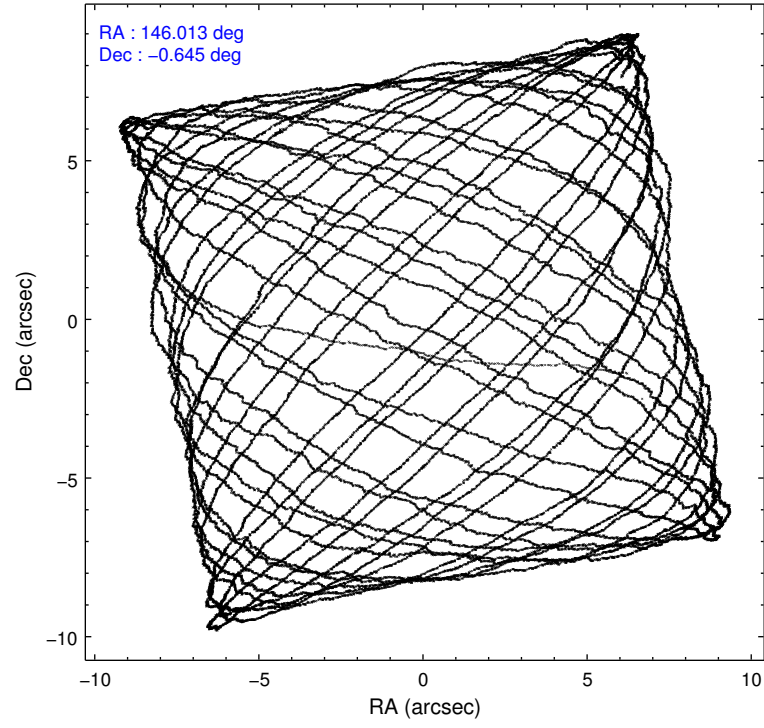
	ccd 6	ccd 7	ccd 8
grade 0 events	8545	5132	10721
	7%	3%	7%
grade 1 events	68	169	114
	0%	0%	0%
grade 2 events	2841	13153	9483
	2%	9%	6%
grade 3 events	1228	4810	4037
	1%	3%	2%
grade 4 events	1264	4790	3640
	1%	3%	2%
grade 5 events	5188	13912	7690
	4%	9%	5%
grade 6 events	2922	33245	10577
	2%	23%	7%
grade 7 events	96142	64215	96746
	81%	46%	67%

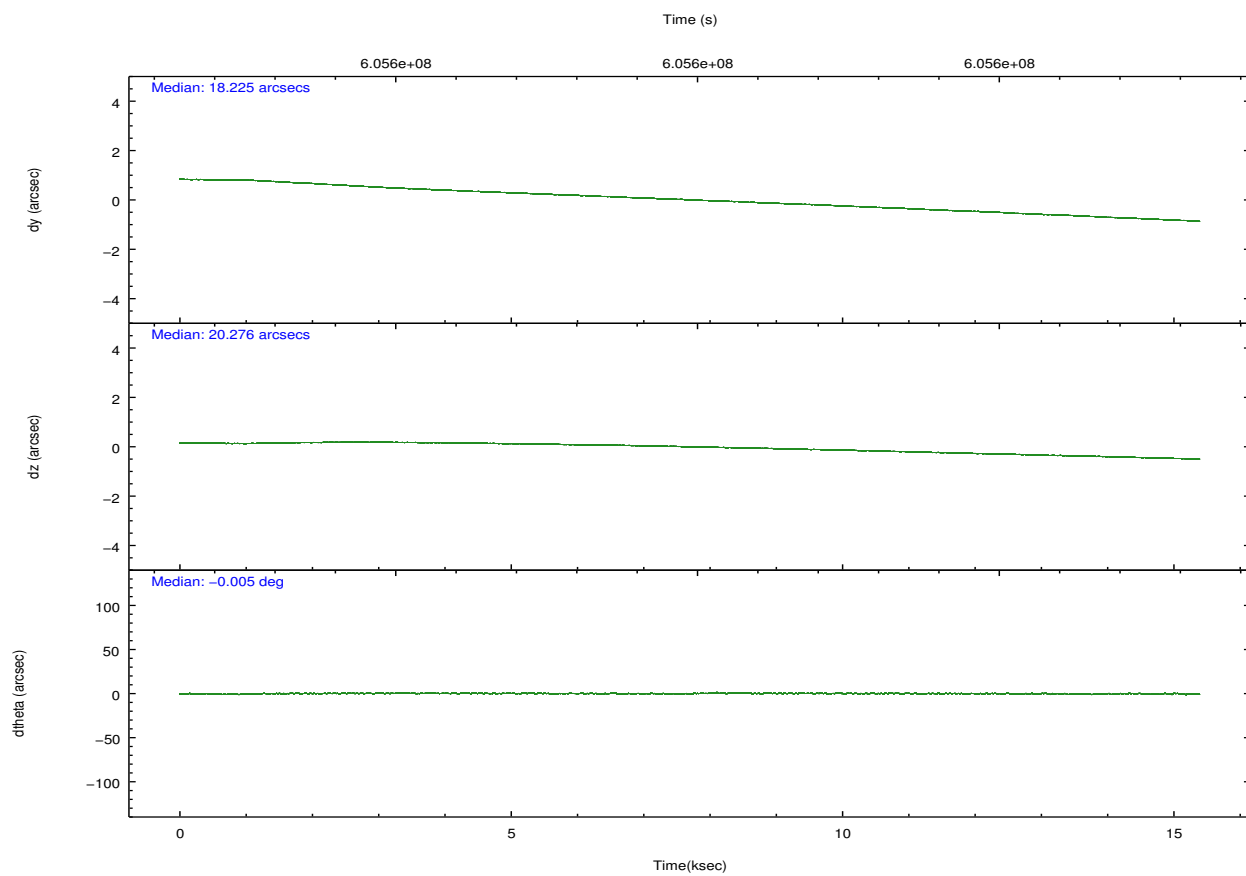
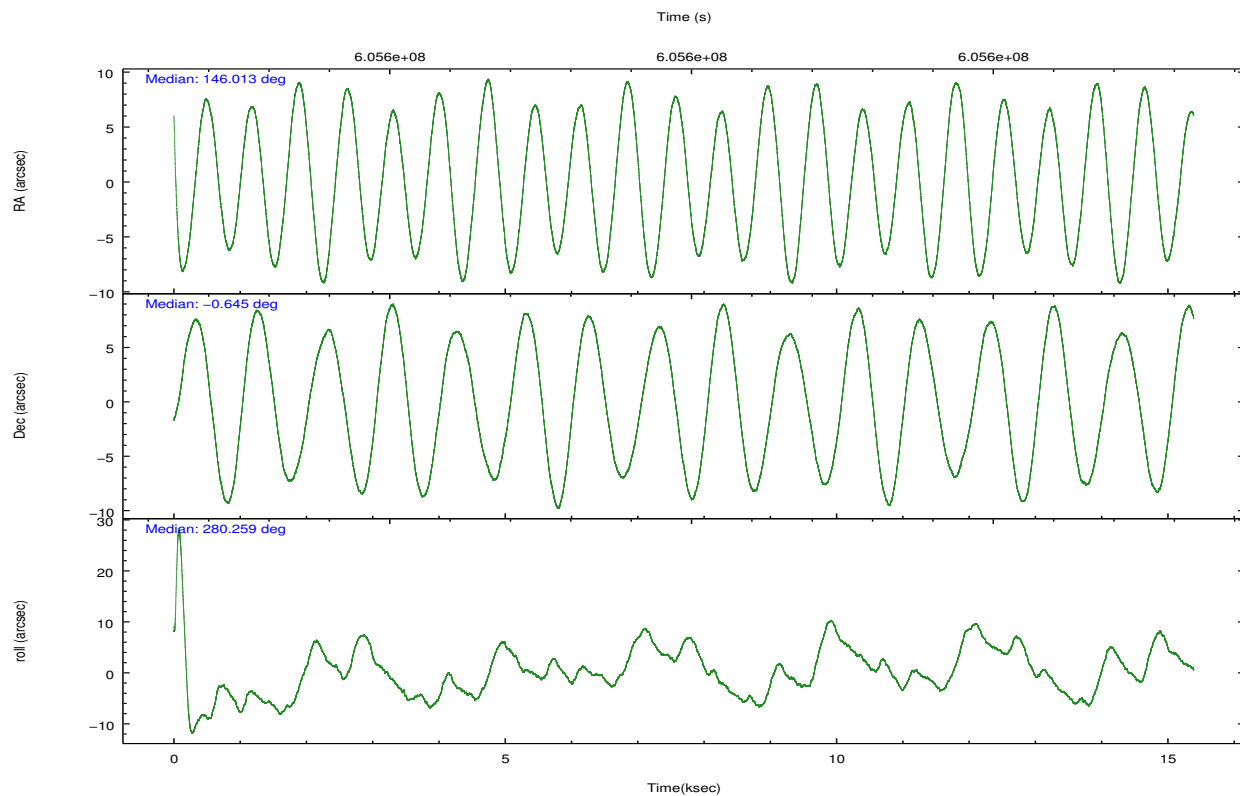
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	145.994898	146.0129157737128
[deg] Pointing Dec	-0.624680	-0.6453520233613825
[deg] Pointing Roll	280.117487	280.2742965974526
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	605592565.184000	605591643.0345401
Observation start date	2017-03-11T04:08:16	2017-03-11T03:54:03
[s] Observation end time (MET)	605607565.184000	605608998.84805
Observation end date	2017-03-11T08:18:16	2017-03-11T08:43:18
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	Y	Y
CCD S4 on	O2	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



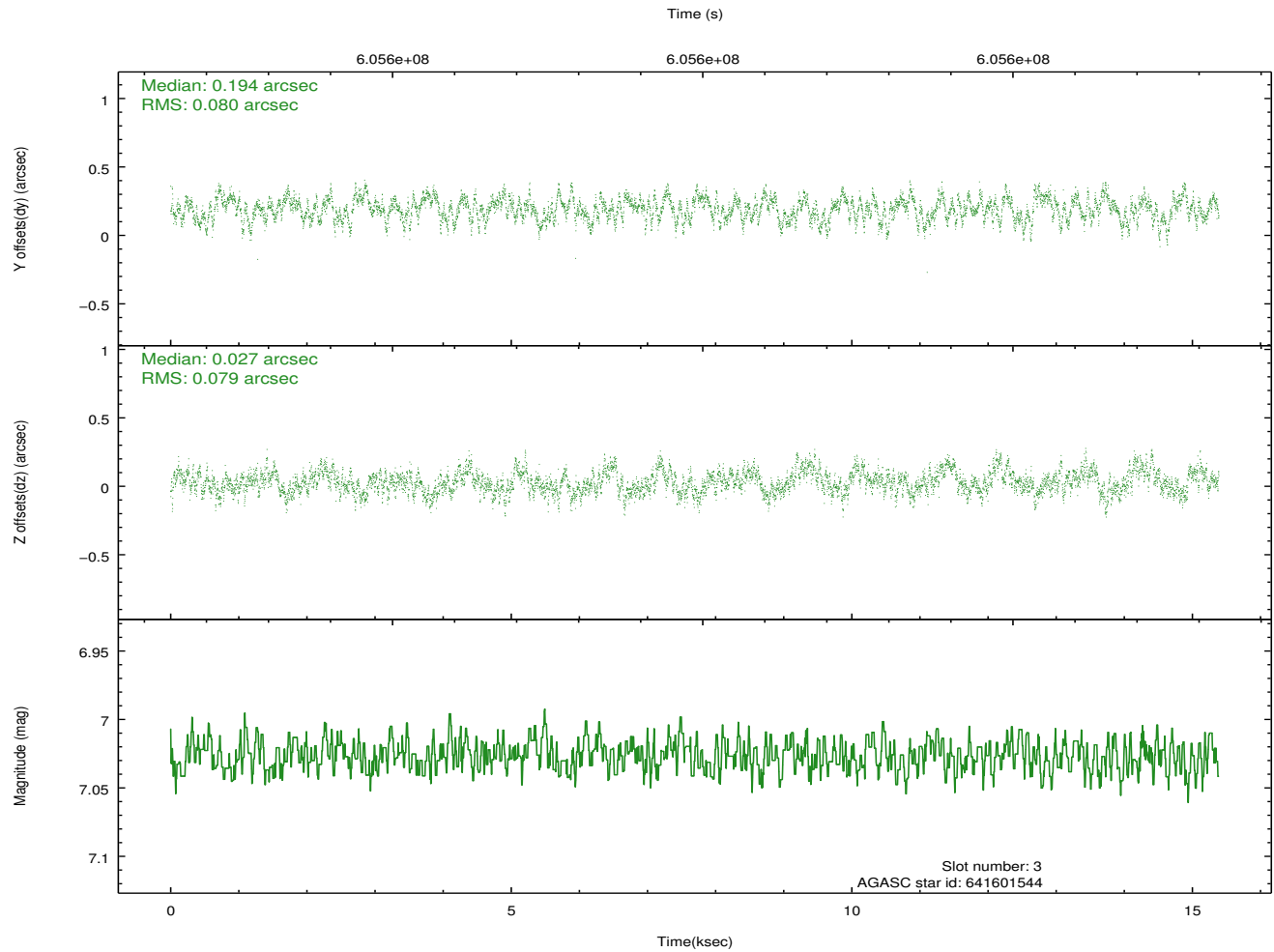
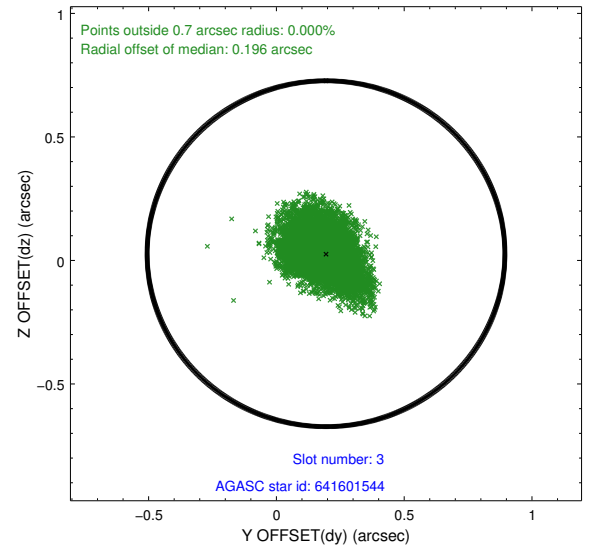
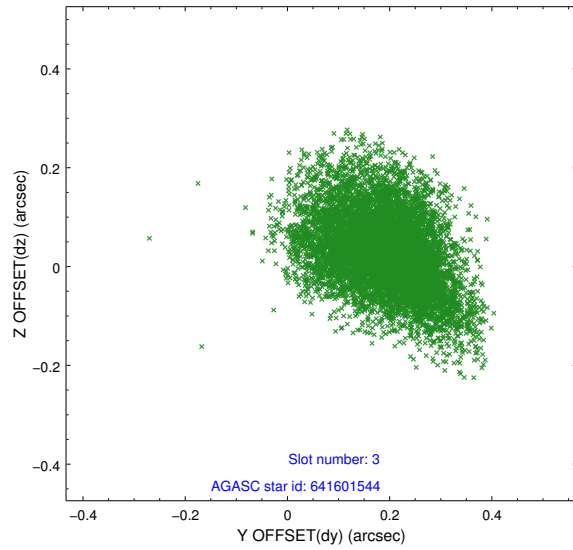


Slot Statistics

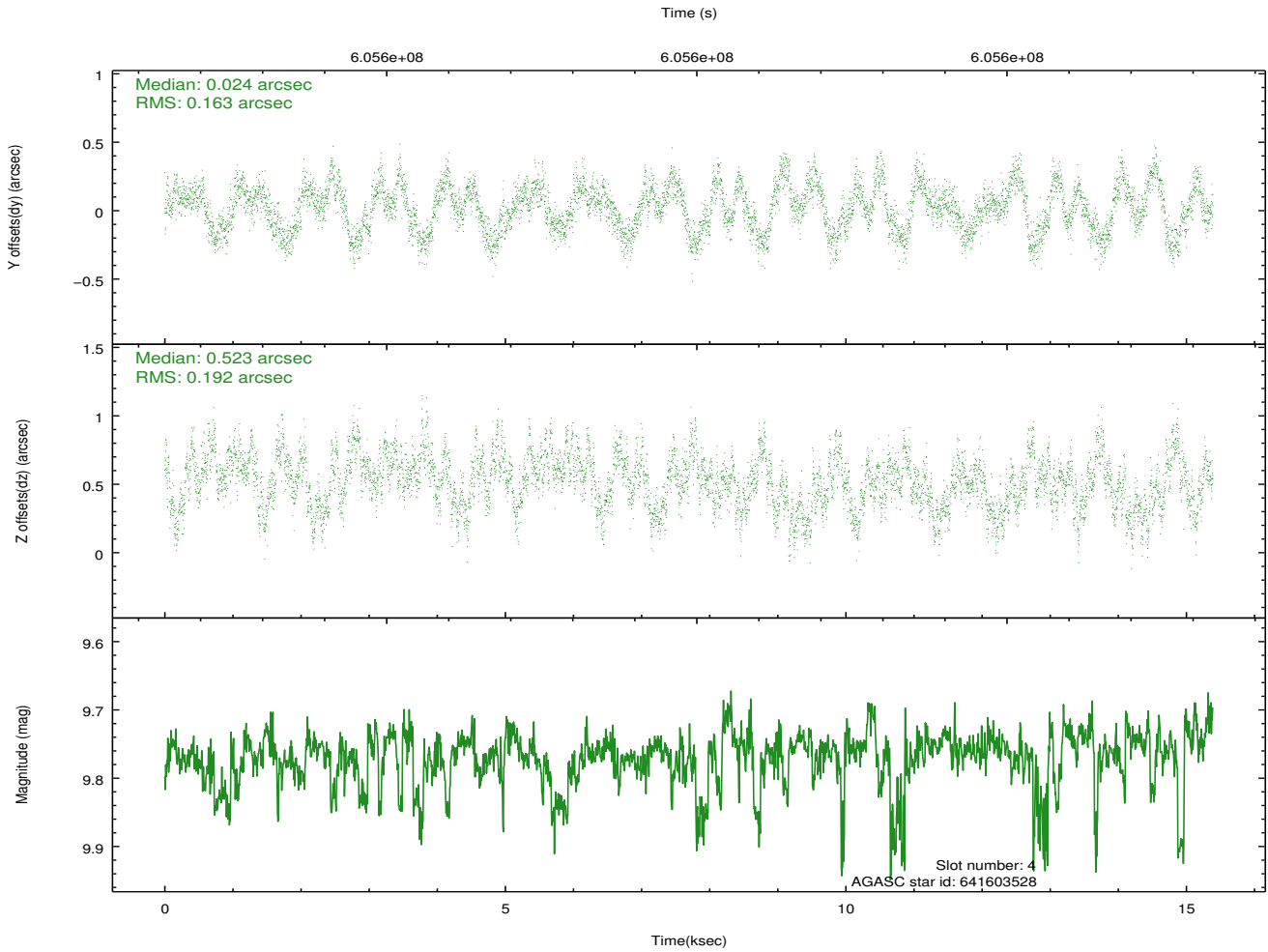
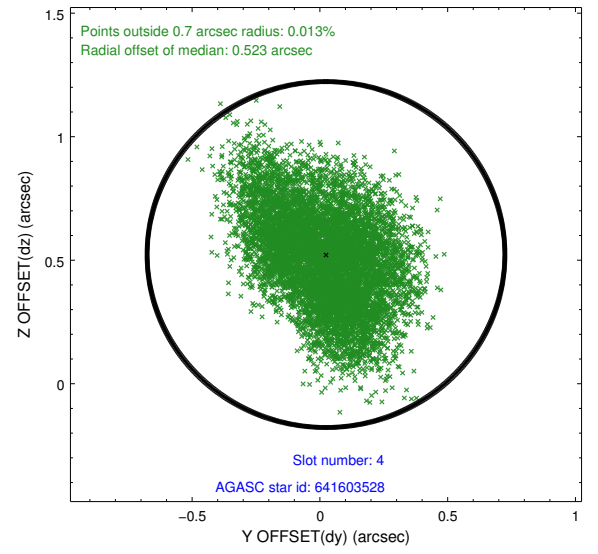
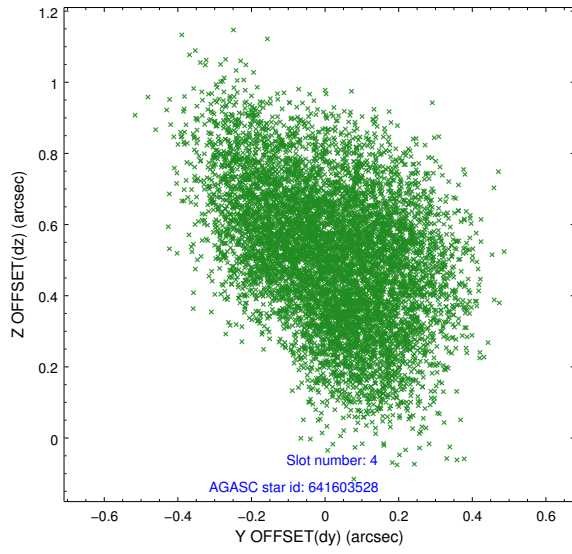
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.00	3754	-0.236	-0.108	0.016	0.023	0.000000	0.000000	-771.48	-1741.86
1	FID		ACIS-S-4	7.11	3754	0.543	0.142	0.019	0.027	0.000000	0.000000	2142.40	166.63
2	FID		ACIS-S-5	7.10	3754	-0.341	-0.026	0.011	0.015	0.000000	0.000000	-1824.10	160.38
3	GUIDE	used	641601544	7.03	7508	0.194	0.027	0.120	0.195	146.297545	-0.464879	-374.48	1173.59
4	GUIDE	used	641603528	9.77	7491	0.024	0.523	0.271	0.426	145.527570	-0.779383	253.87	-1753.12
5	GUIDE	used	641604616	8.87	7502	-0.214	-0.725	0.122	0.205	146.660321	-0.611668	374.61	2365.53
6	GUIDE	used	641608408	9.42	7499	-0.107	-0.040	0.171	0.277	146.216734	-0.779571	690.66	687.57
7	GUIDE	used	641610280	8.80	7499	0.091	0.224	0.153	0.245	146.002001	-0.407513	-764.54	162.38

2.4 Star Slots

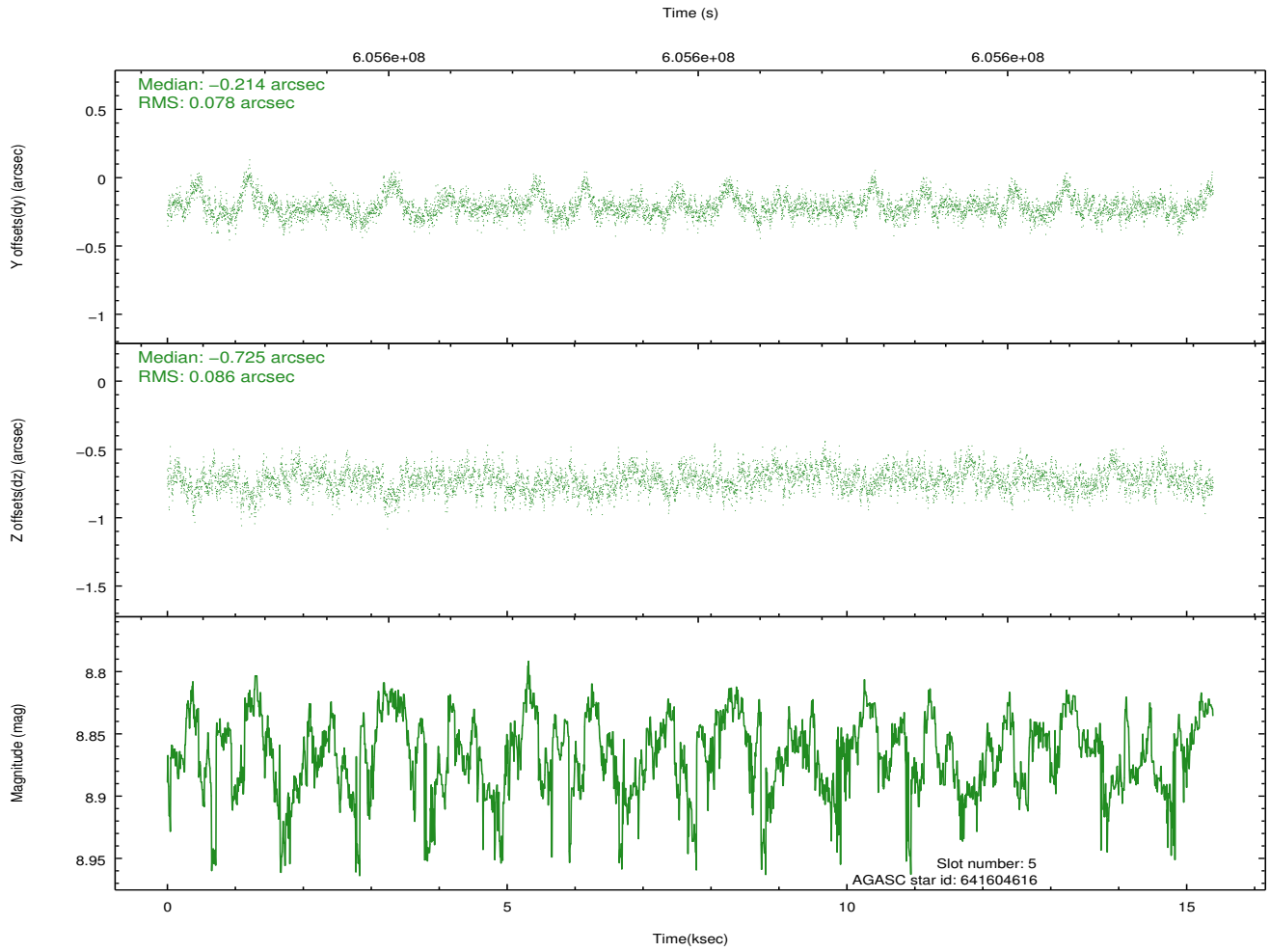
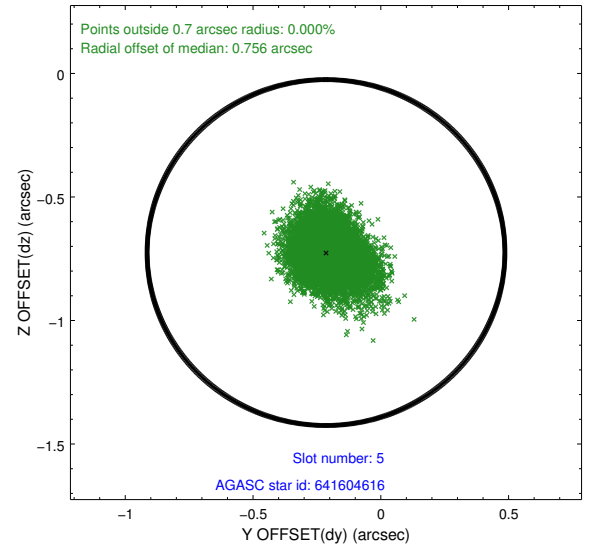
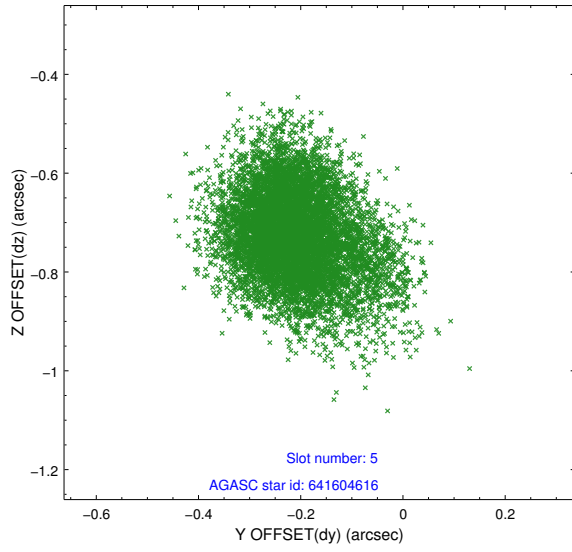
2.4.1 Slot 3



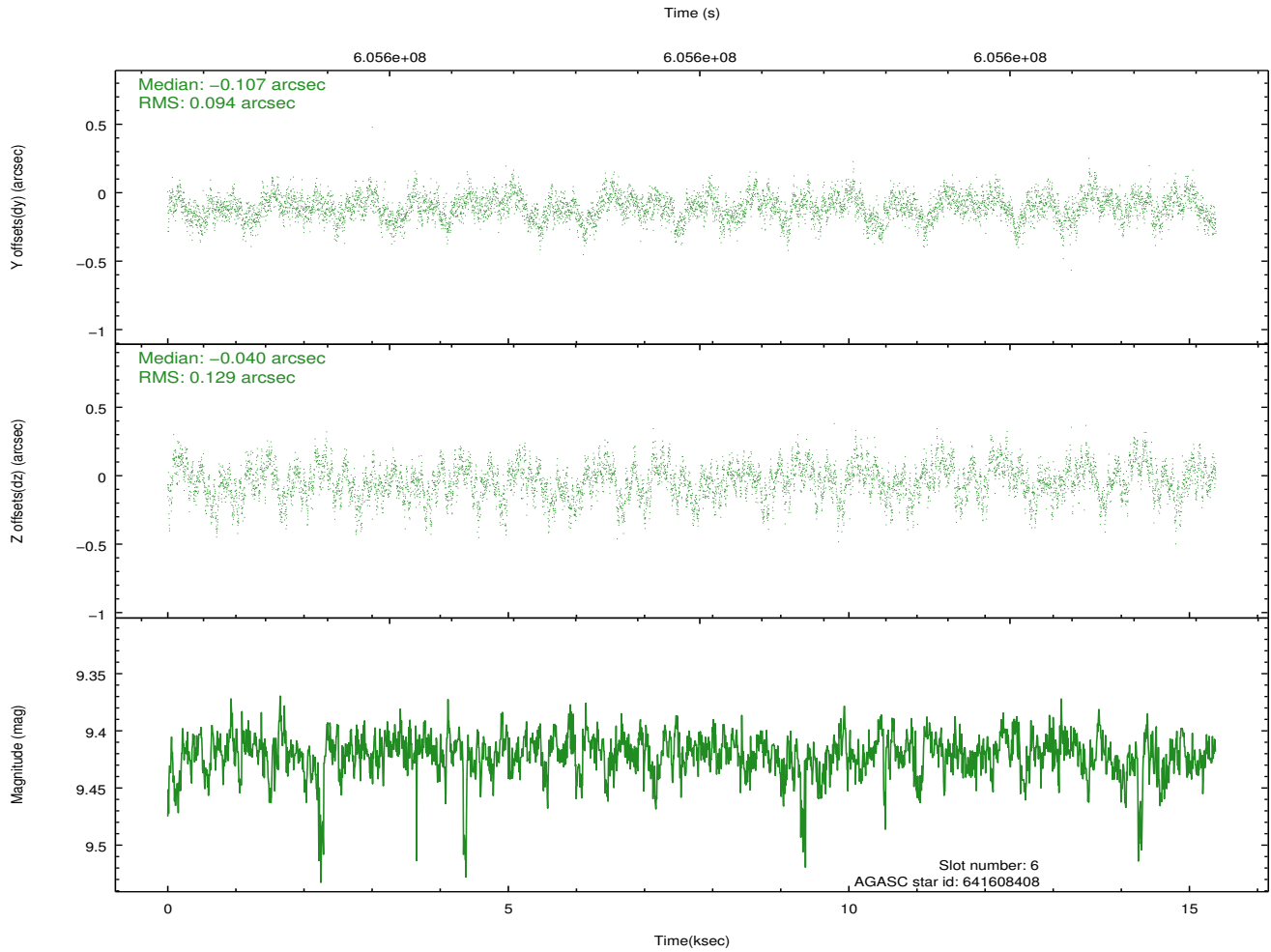
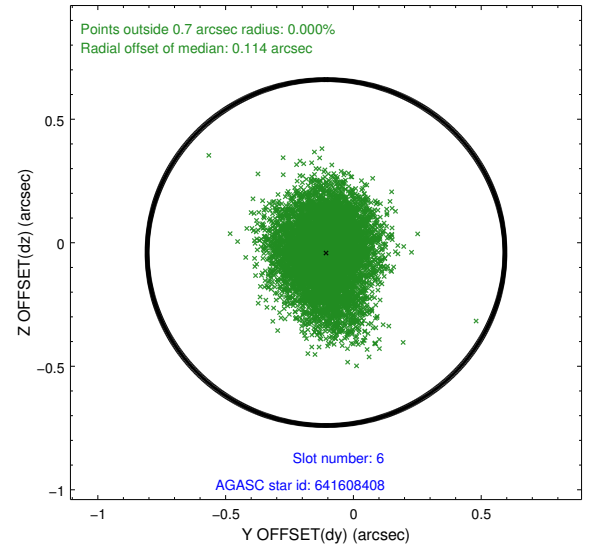
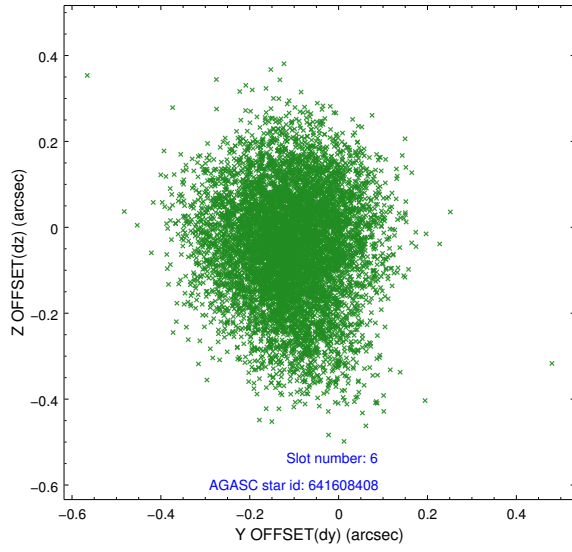
2.4.2 Slot 4



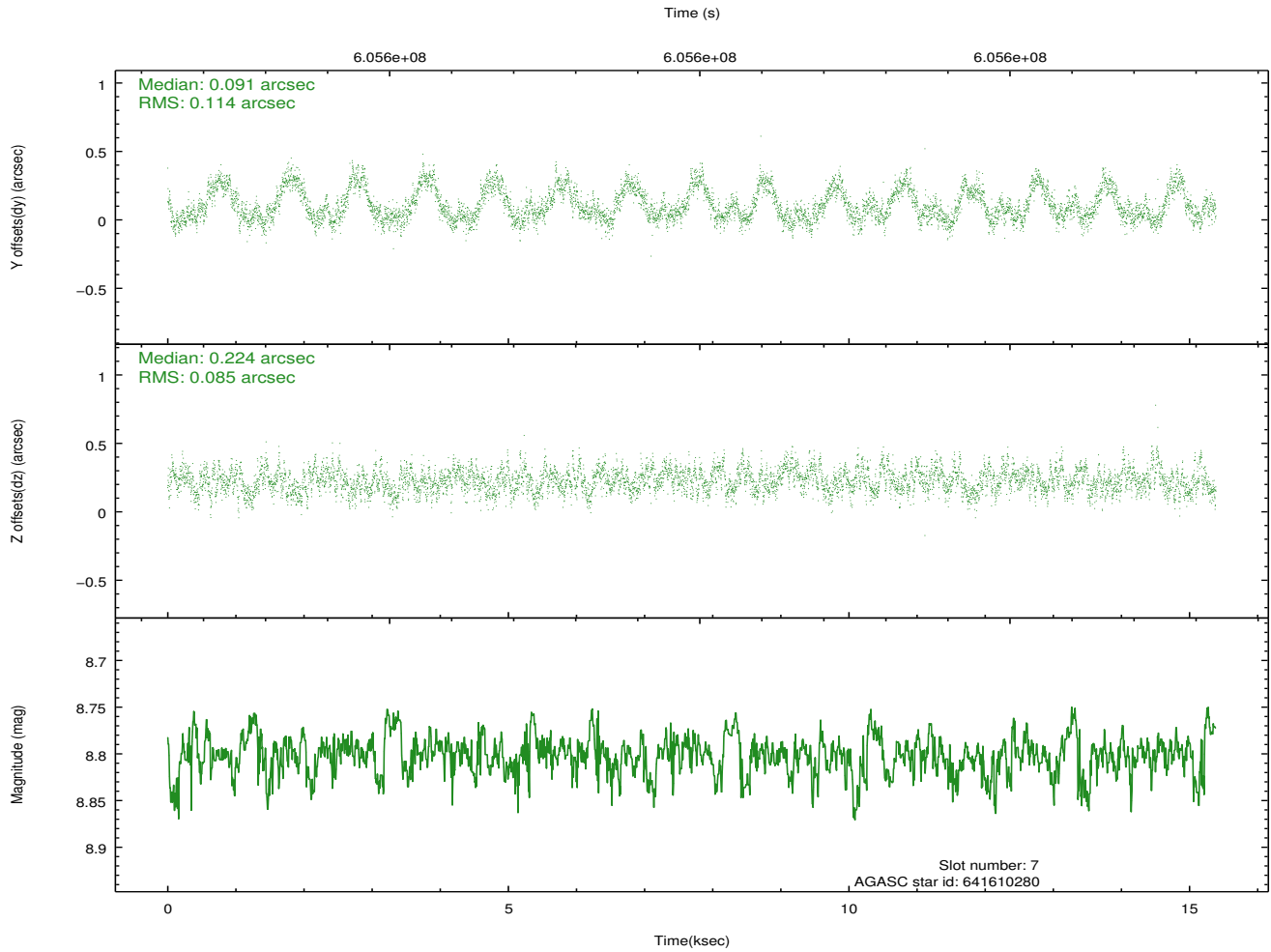
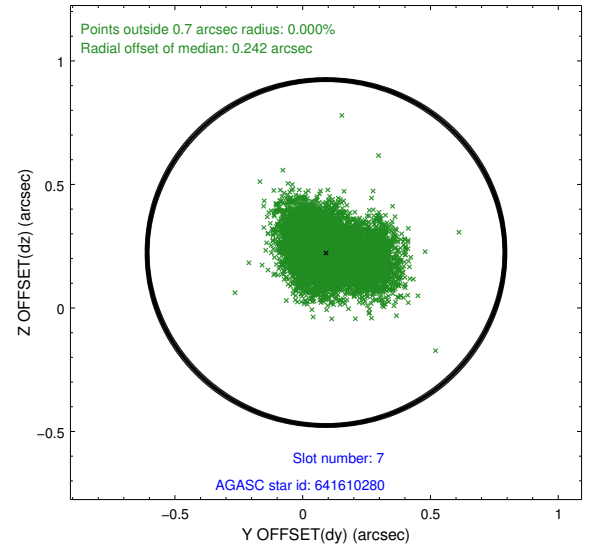
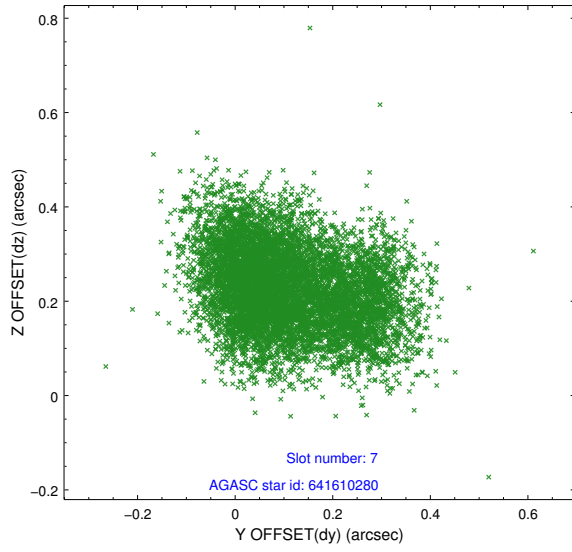
2.4.3 Slot 5



2.4.4 Slot 6

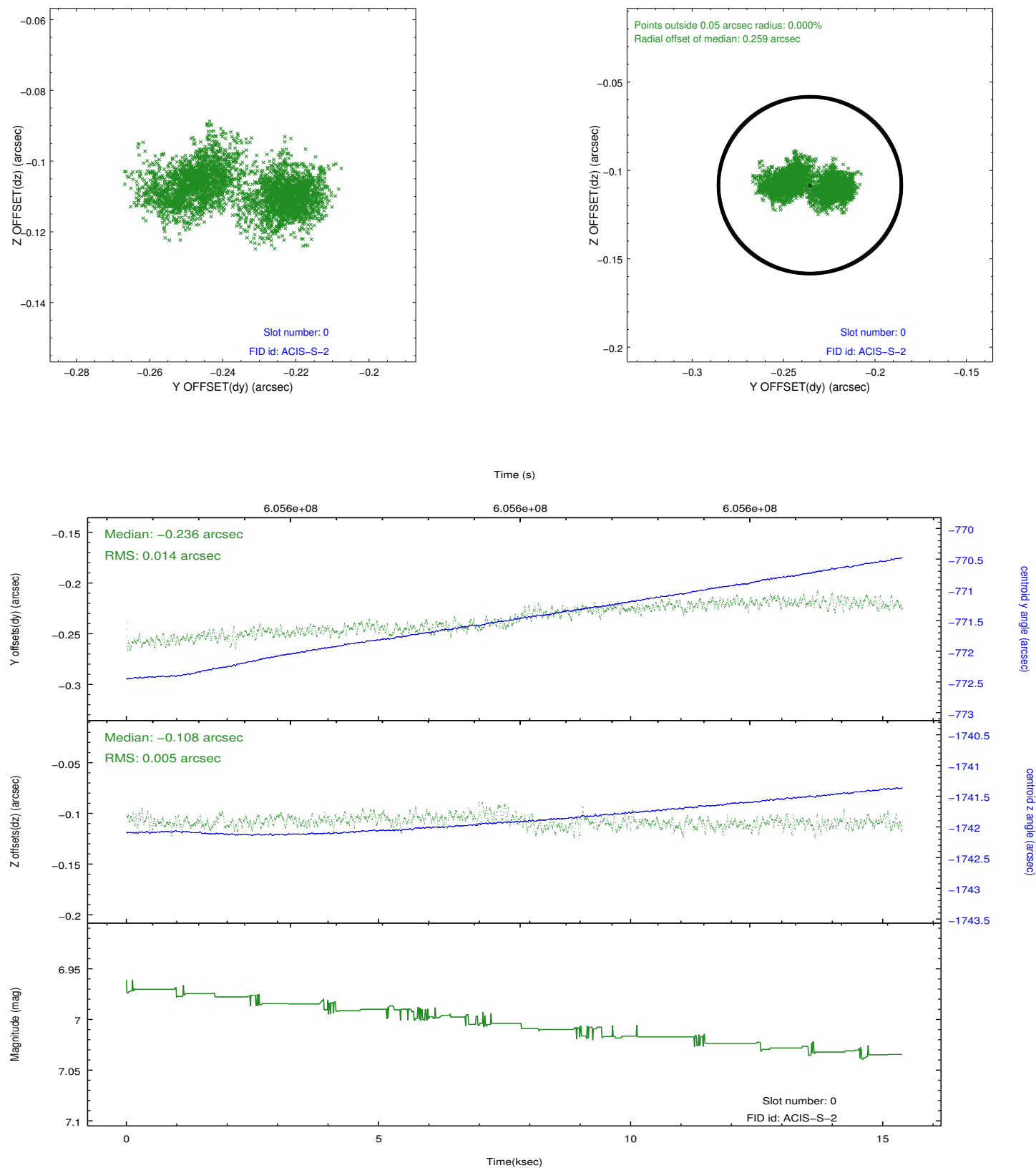


2.4.5 Slot 7

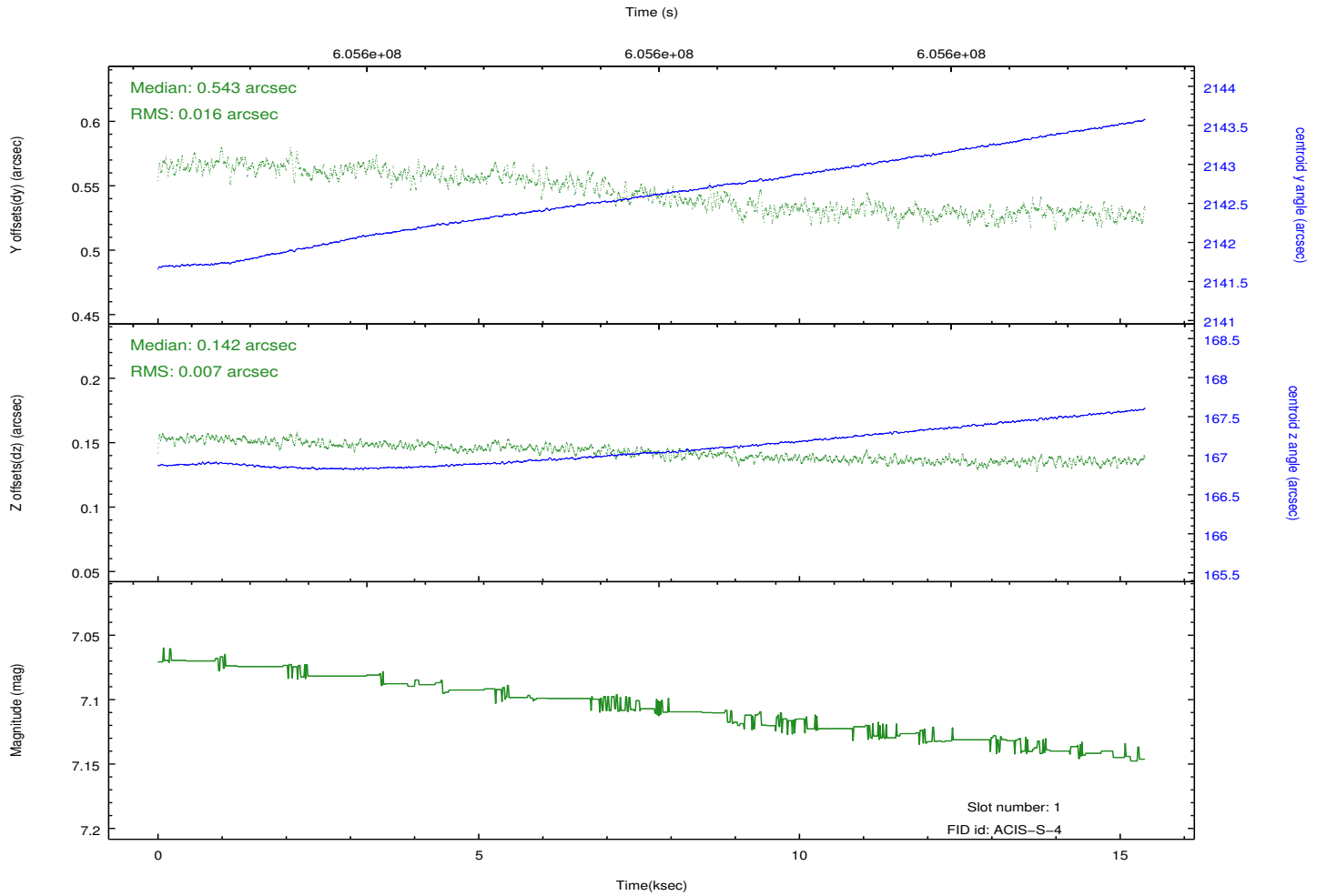
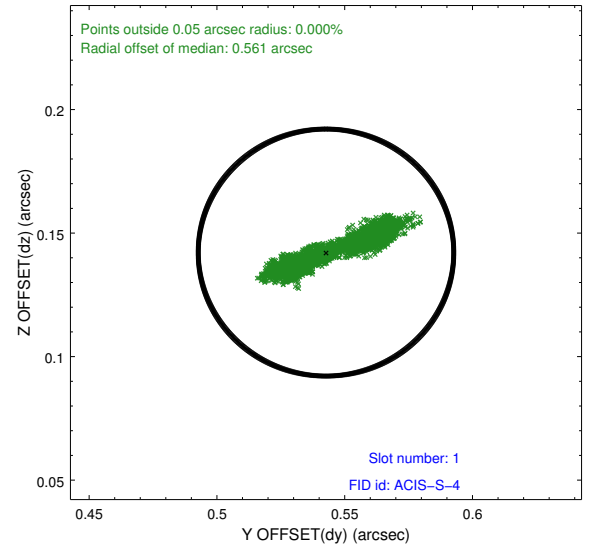
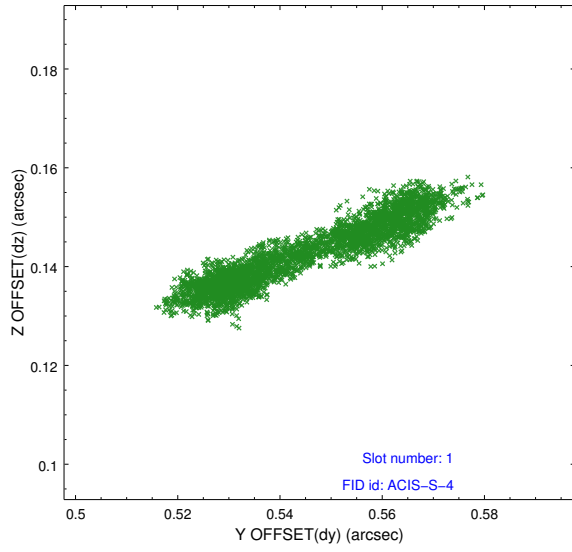


2.5 FID Slots

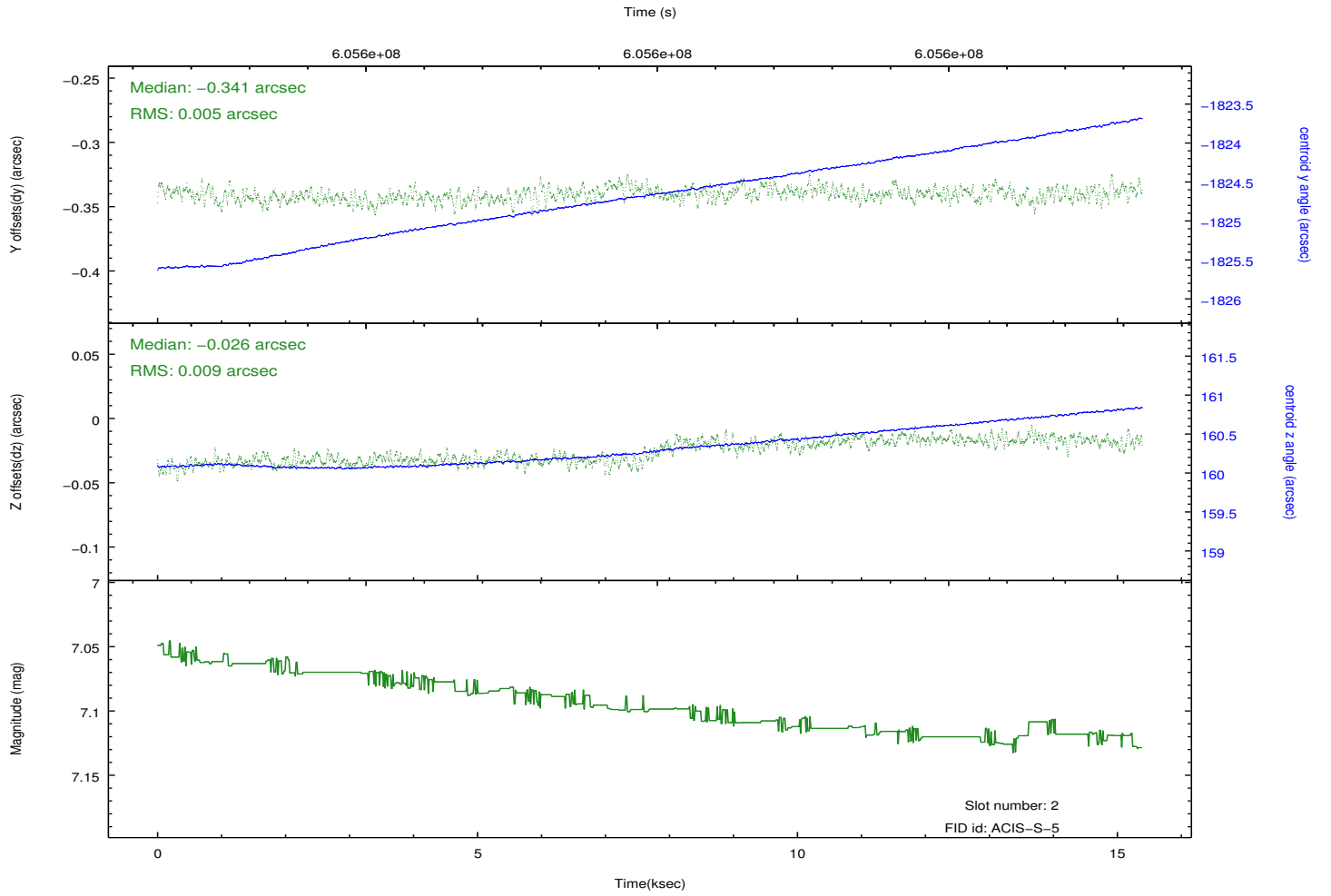
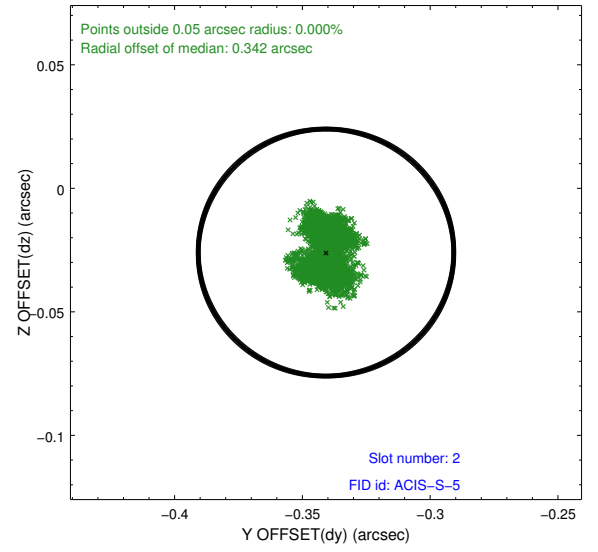
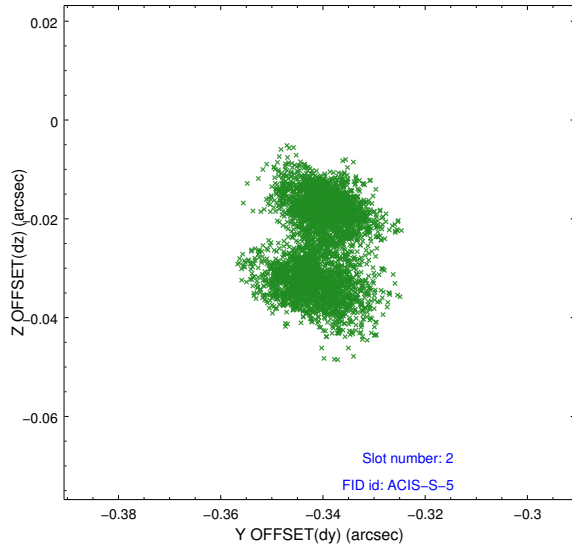
2.5.1 Slot 0



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)	2017.03.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.075115914583

A.2 Comments