

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20266 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Mar 26 2018

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1 Front

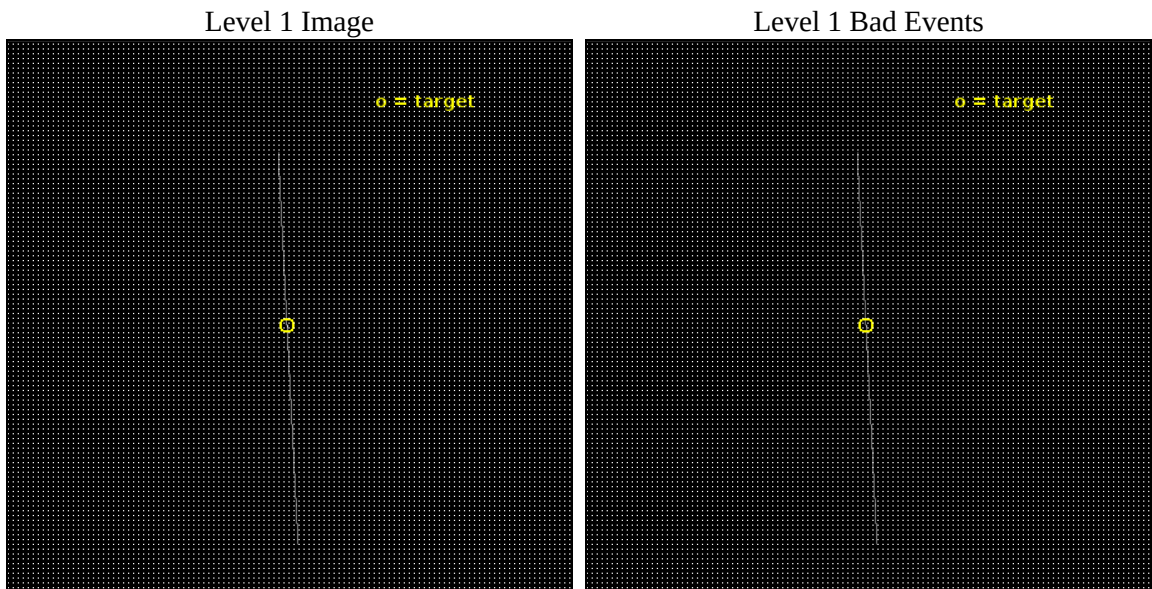
seq_num	401993	Sequence number
obs_id	20266	Observation id
title	A Test of Black-Hole Disk Truncation: Thermal Disk Emission in the Bright Hard State	Proposal title
observer	James Steiner	Principal investigator
object	MAXI J1813-095	Source name
ra_targ	273.391667	Observer's specified target RA [deg]
dec_targ	-9.533056	Observer's specified target Dec [deg]
ra_nom	273.38735686919	Nominal RA [deg]
dec_nom	-9.5288158310715	Nominal Dec [deg]
roll_nom	87.195944231132	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18602.0	Sum of GTIs [s]
livetime	18529.3359375	Livetime [s]
ontime5	18602.0	Sum of GTIs [s]
ontime6	18602.0	Sum of GTIs [s]
ontime7	18602.0	Sum of GTIs [s]
ontime8	18602.0	Sum of GTIs [s]
ontime9	18602.0	Sum of GTIs [s]
l2events	764163	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	18500.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	18602.0	Sum of GTIs [s]
caldsver	4.7.8	 	ontime5	18602.0	Sum of GTIs [s]
date	2018-03-26T15:34:51	Date and time of file creation	ontime6	18602.0	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	18602.0	Sum of GTIs [s]
			ontime8	18602.0	Sum of GTIs [s]
			ontime9	18602.0	Sum of GTIs [s]
			l1events	2100572	Number of level 1 events

2.1.3 Events

	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	340378	250339	875943	382548	251364
rejected events	191222	217047	288473	317538	225257
rejected %	56%	86%	32%	83%	89%

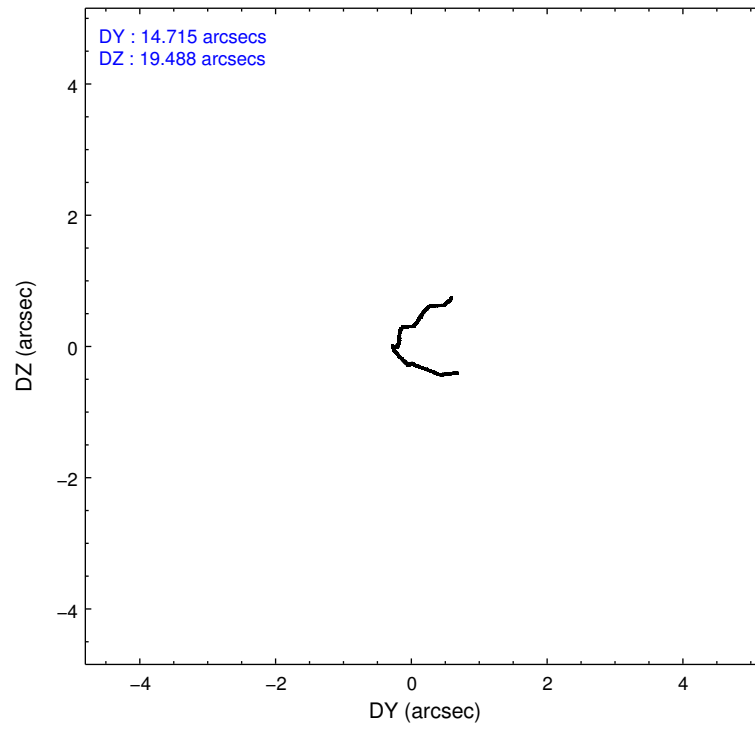
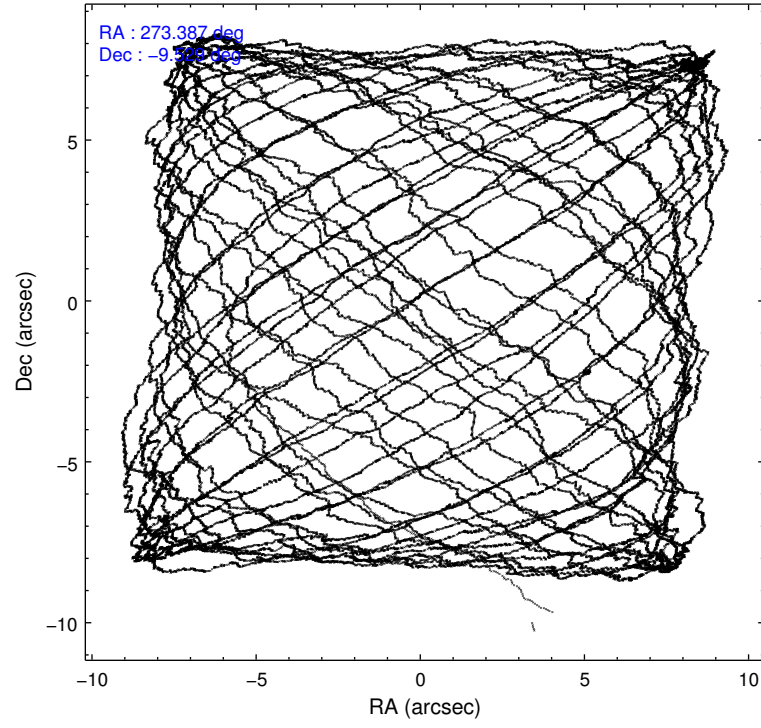
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	34596	3025	72686	13874	2804
	10%	1%	8%	3%	1%
grade 1 events	359	91	3007	247	113
	0%	0%	0%	0%	0%
grade 2 events	41863	16842	196041	20803	10470
	12%	6%	22%	5%	4%
grade 3 events	2752	2936	39086	6393	2682
	0%	1%	4%	1%	1%
grade 4 events	2597	2751	39601	6114	2788
	0%	1%	4%	1%	1%
grade 5 events	11580	6623	31650	9544	6955
	3%	2%	3%	2%	2%
grade 6 events	67365	7745	240160	17858	7366
	19%	3%	27%	4%	2%
grade 7 events	179266	210326	253712	307715	218186
	52%	84%	28%	80%	86%

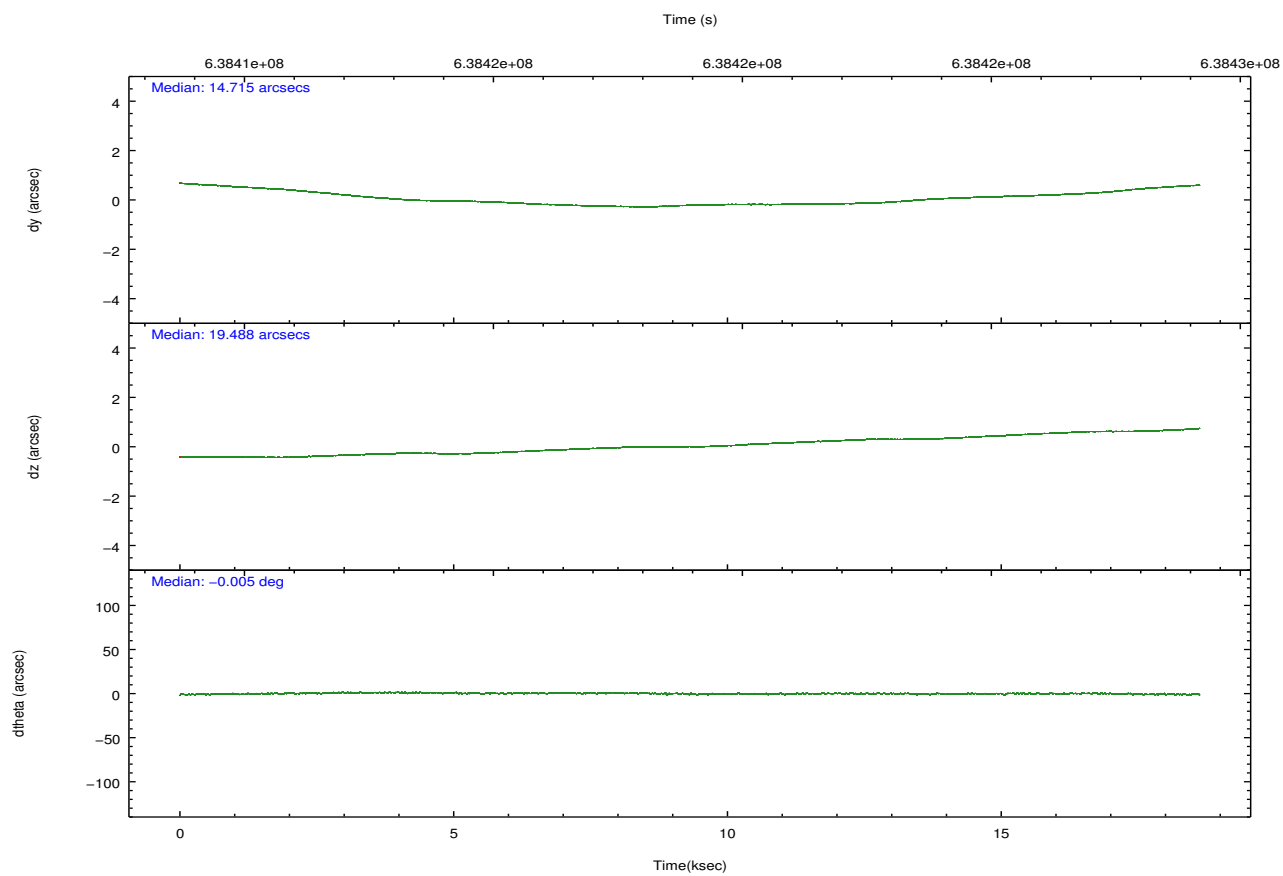
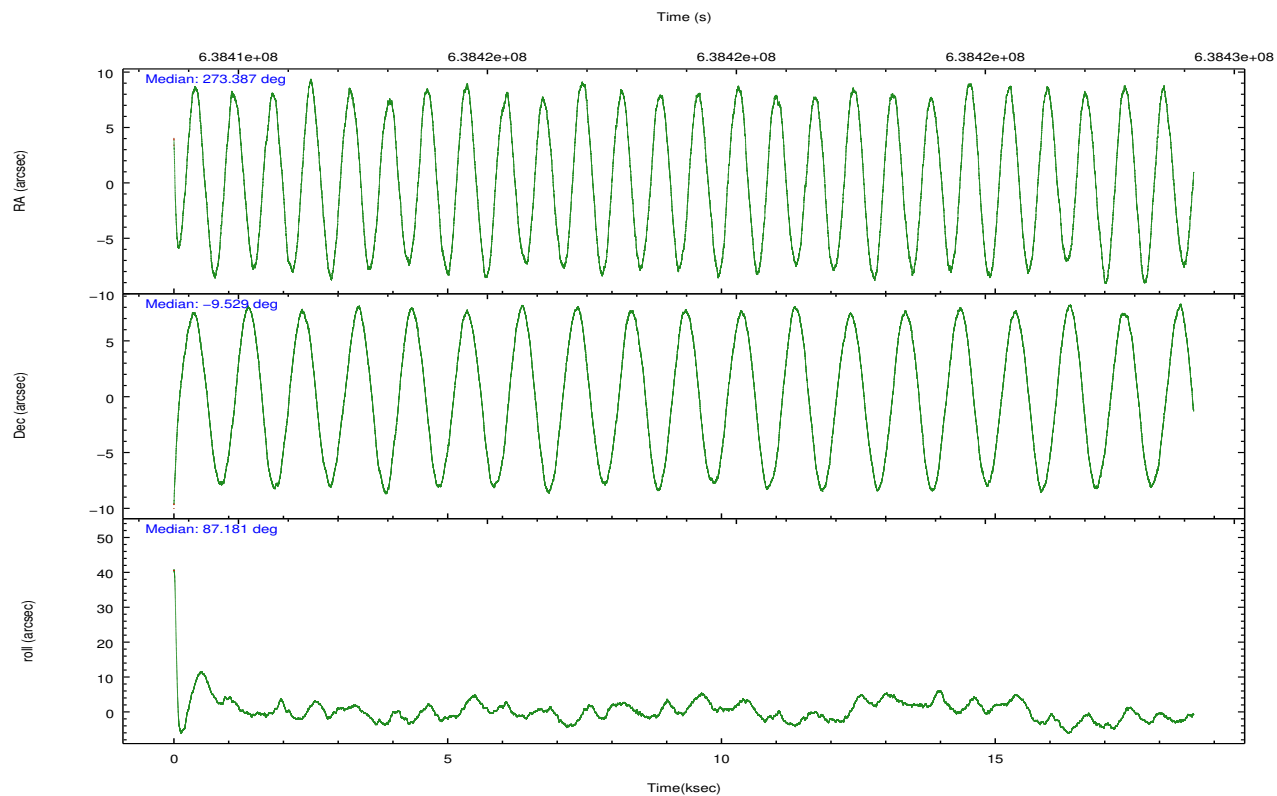
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-56789	ACIS-56789
Grating	NONE	NONE
Data mode	CC33_GRADED	CC33_GRADED
Observation mode	POINTING	POINTING
[deg] Pointing RA	273.400413	273.3873568691915
[deg] Pointing Dec	-9.553093	-9.52881583107151
[deg] Pointing Roll	87.041451	87.19594423113215
[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)	638409778.184000	638408704.5420099
Observation start date	2018-03-26T00:01:49	2018-03-25T23:45:04
[s] Observation end time (MET)	638428278.184000	638429294.74322
Observation end date	2018-03-26T05:10:09	2018-03-26T05:28:14
Read mode	CONTINUOUS	CONTINUOUS

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	O2	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O1	Y
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	0

2.3 Aspect



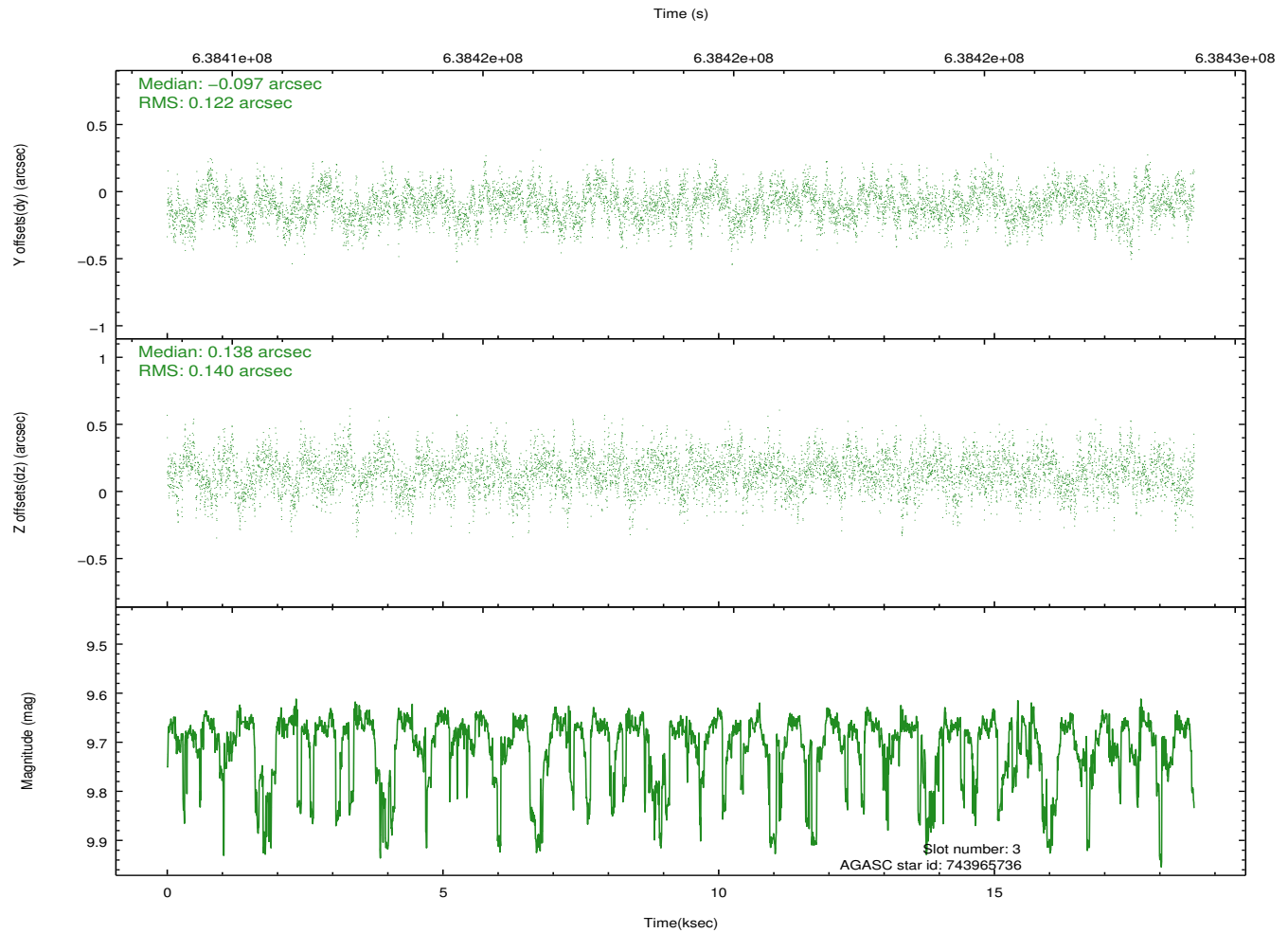
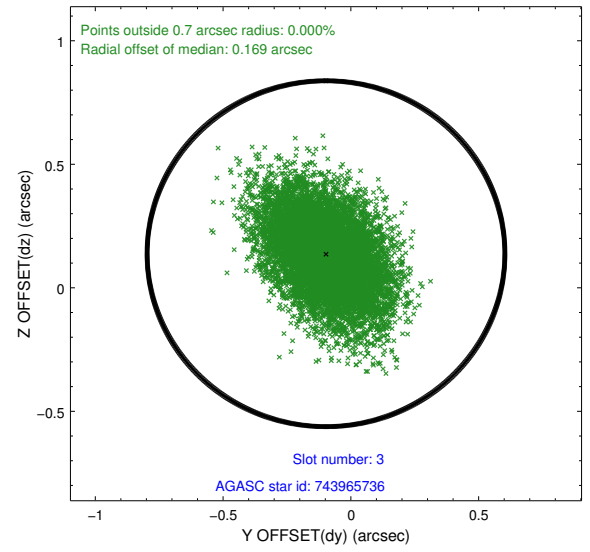
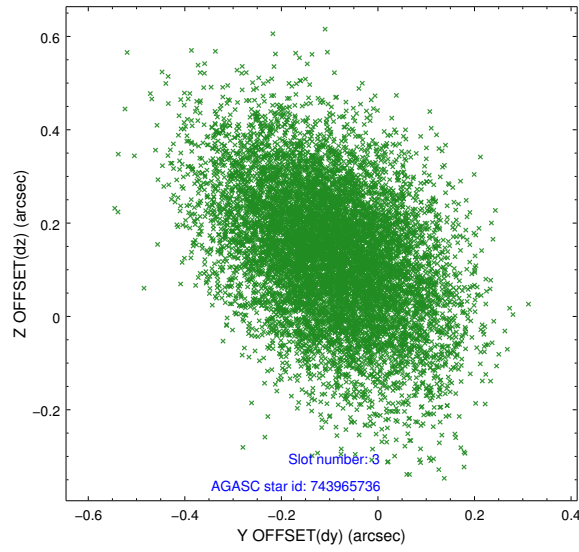


Slot Statistics

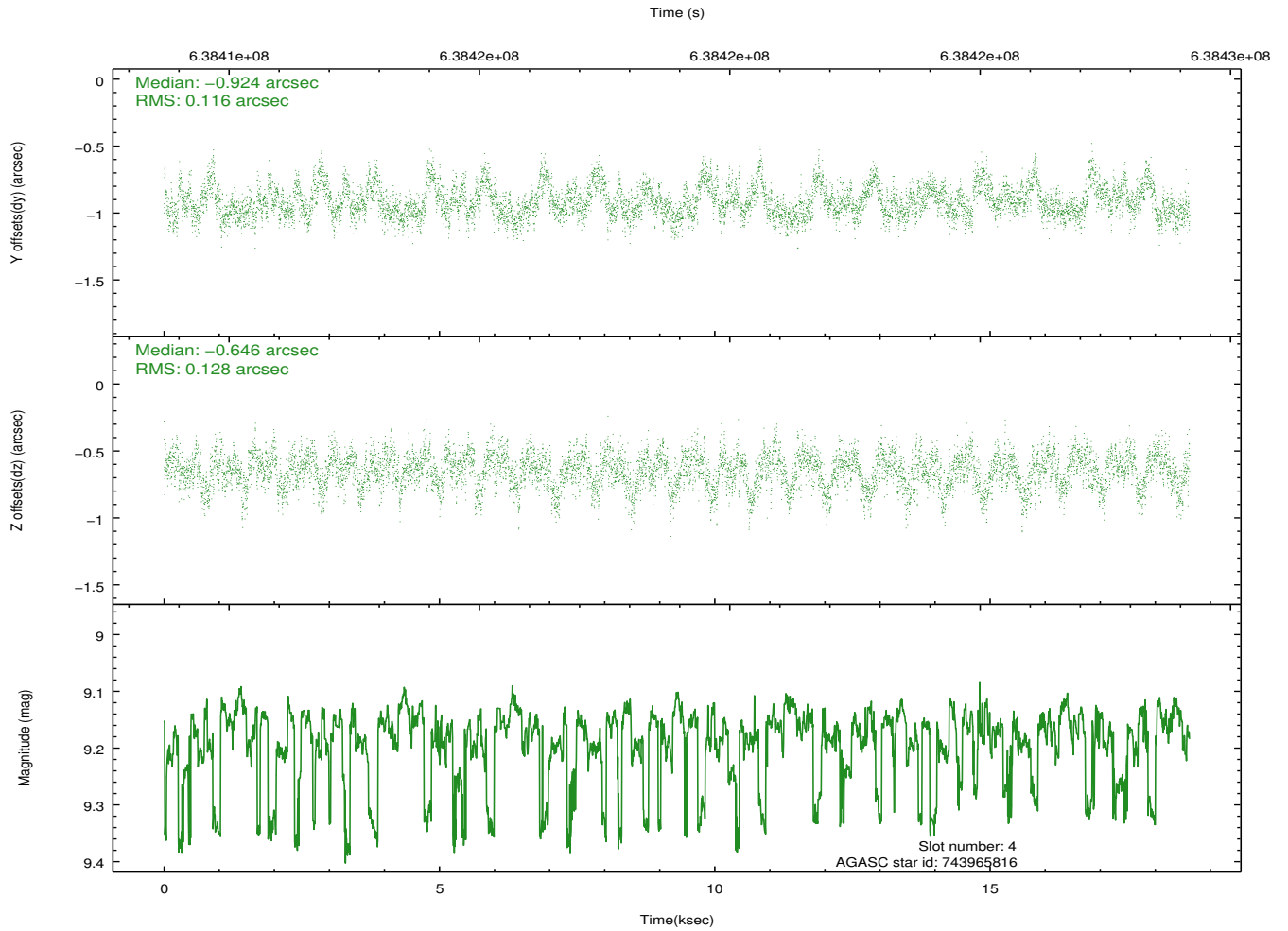
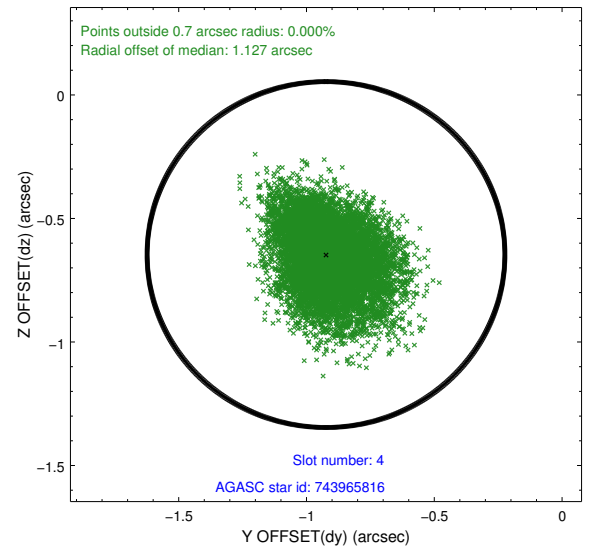
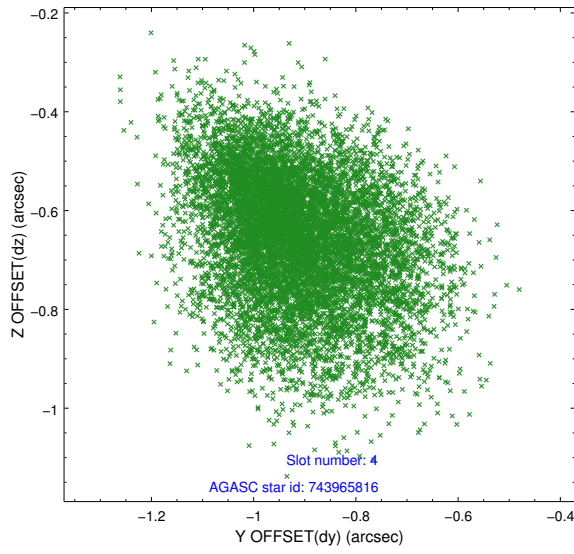
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	4543	-0.215	-0.090	0.016	0.026	0.000000	0.000000	-767.94	-1741.15
1	FID		ACIS-S-4	7.16	4543	0.502	0.128	0.007	0.012	0.000000	0.000000	2145.93	167.36
2	FID		ACIS-S-5	7.14	4542	-0.319	-0.027	0.014	0.026	0.000000	0.000000	-1820.64	161.07
3	GUIDE	used	743965736	9.69	9074	-0.097	0.138	0.196	0.327	273.638582	-9.325665	861.28	-802.22
4	GUIDE	used	743965816	9.18	9075	-0.924	-0.646	0.185	0.304	273.189504	-9.019404	1878.91	847.95
5	GUIDE	used	744492144	8.26	9081	0.144	-0.496	0.142	0.232	272.946055	-9.546827	-61.98	1611.58
6	GUIDE	used	744624960	9.40	9075	0.409	0.567	0.211	0.340	273.841408	-9.962525	-1391.37	-1637.18
7	GUIDE	used	744626112	8.03	9079	0.453	0.449	0.135	0.224	274.063643	-9.809607	-802.27	-2397.81

2.4 Star Slots

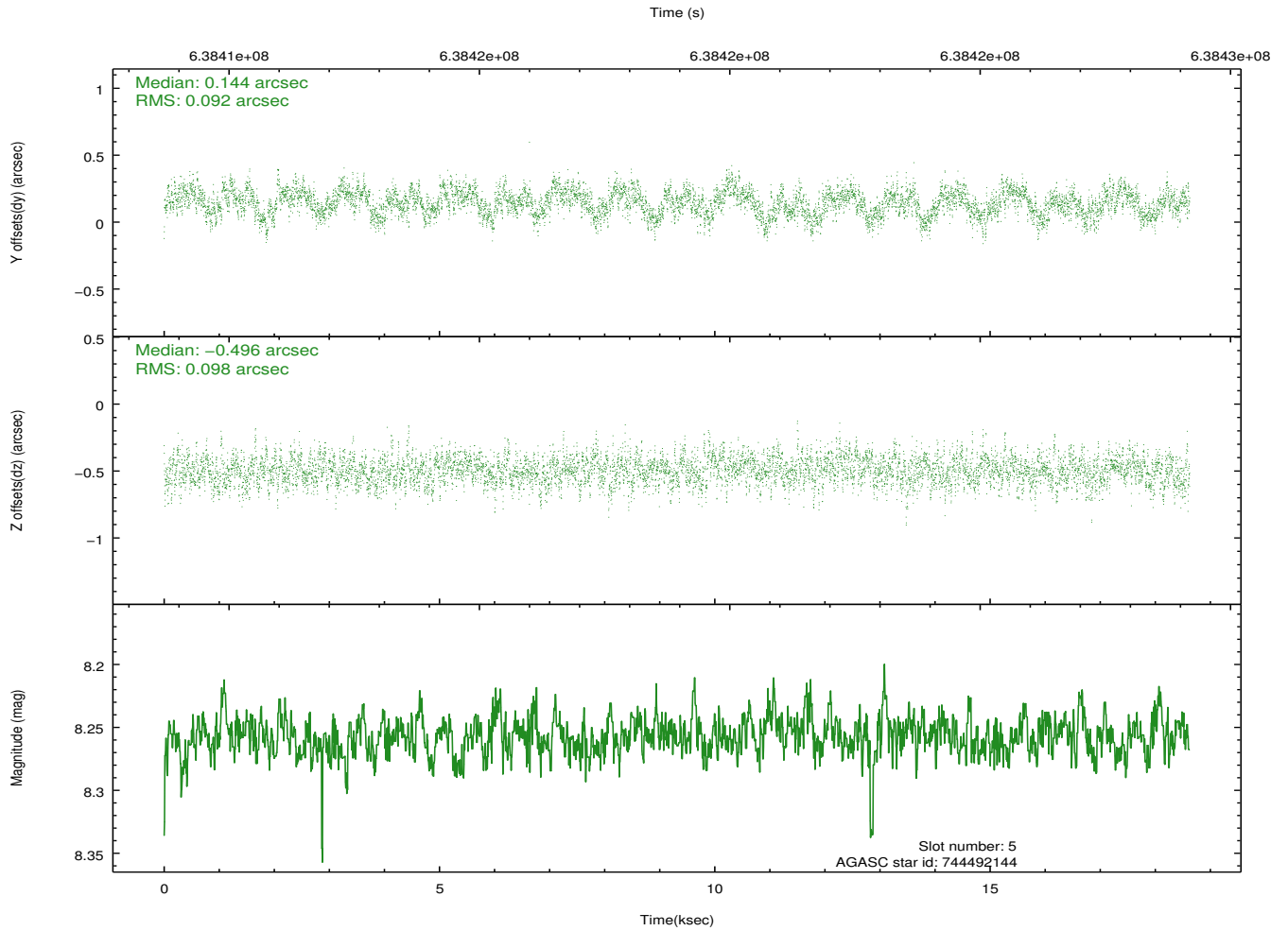
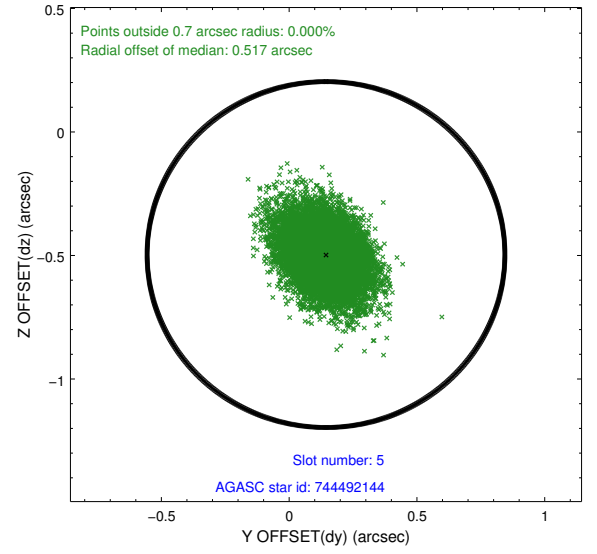
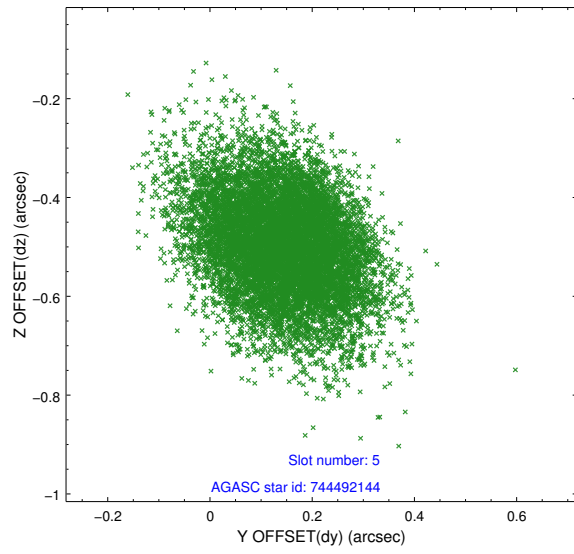
2.4.1 Slot 3



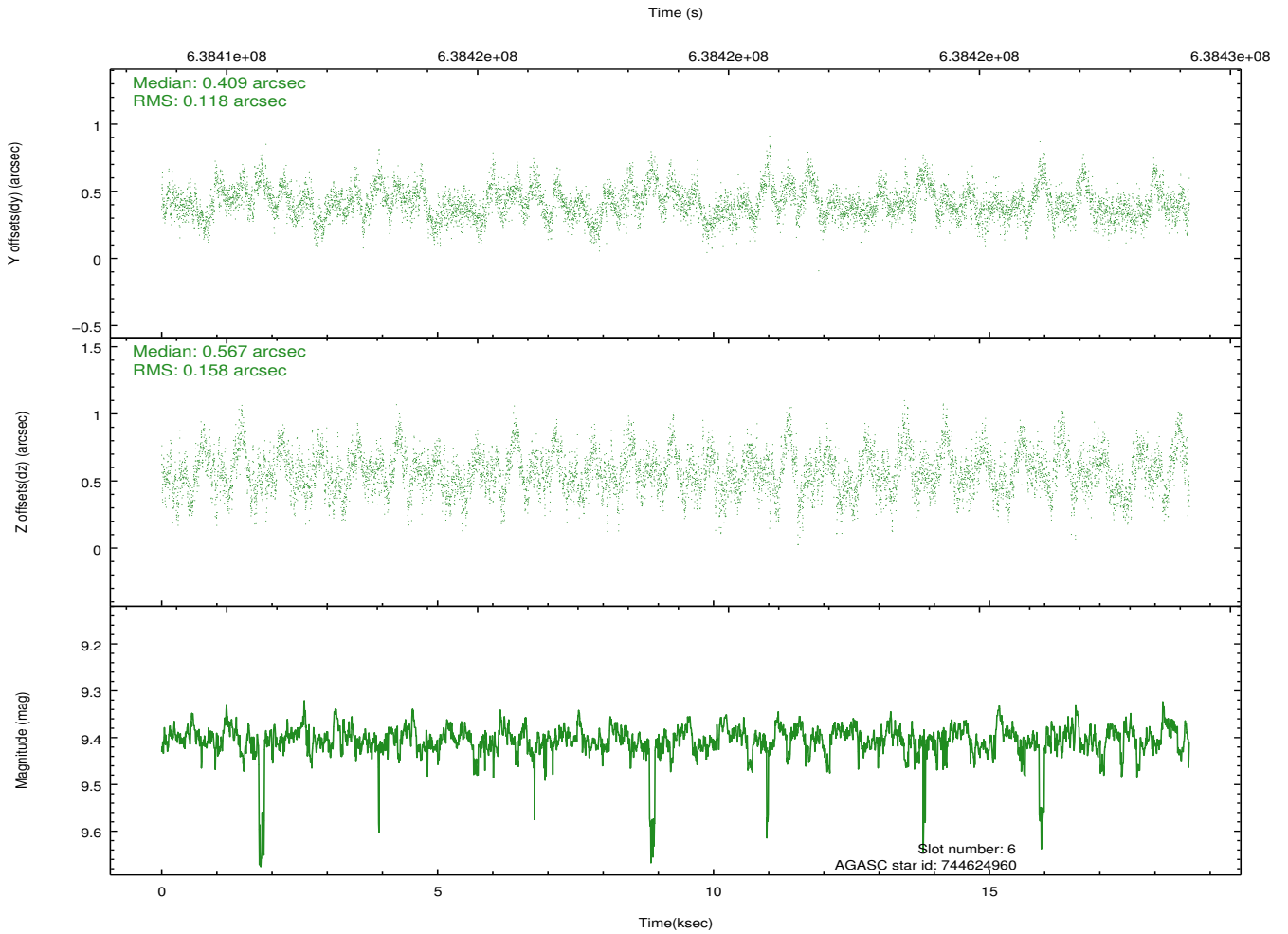
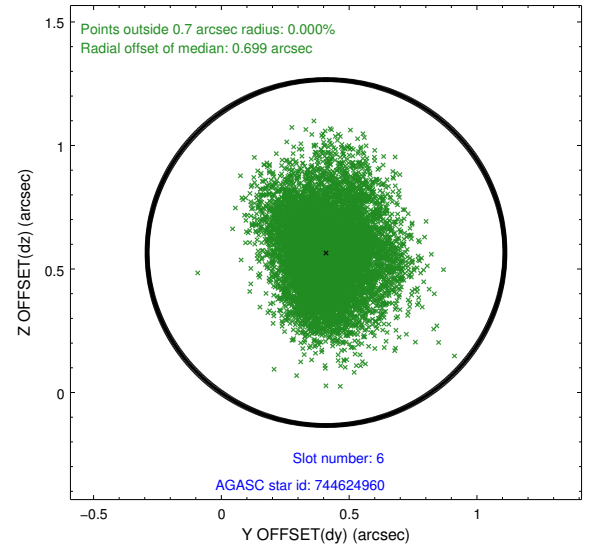
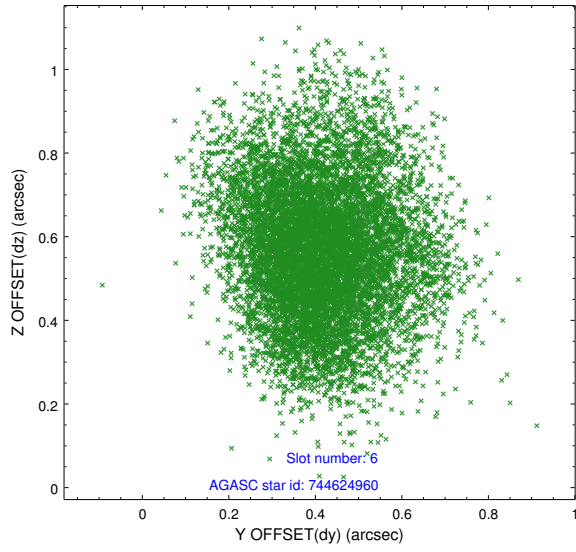
2.4.2 Slot 4



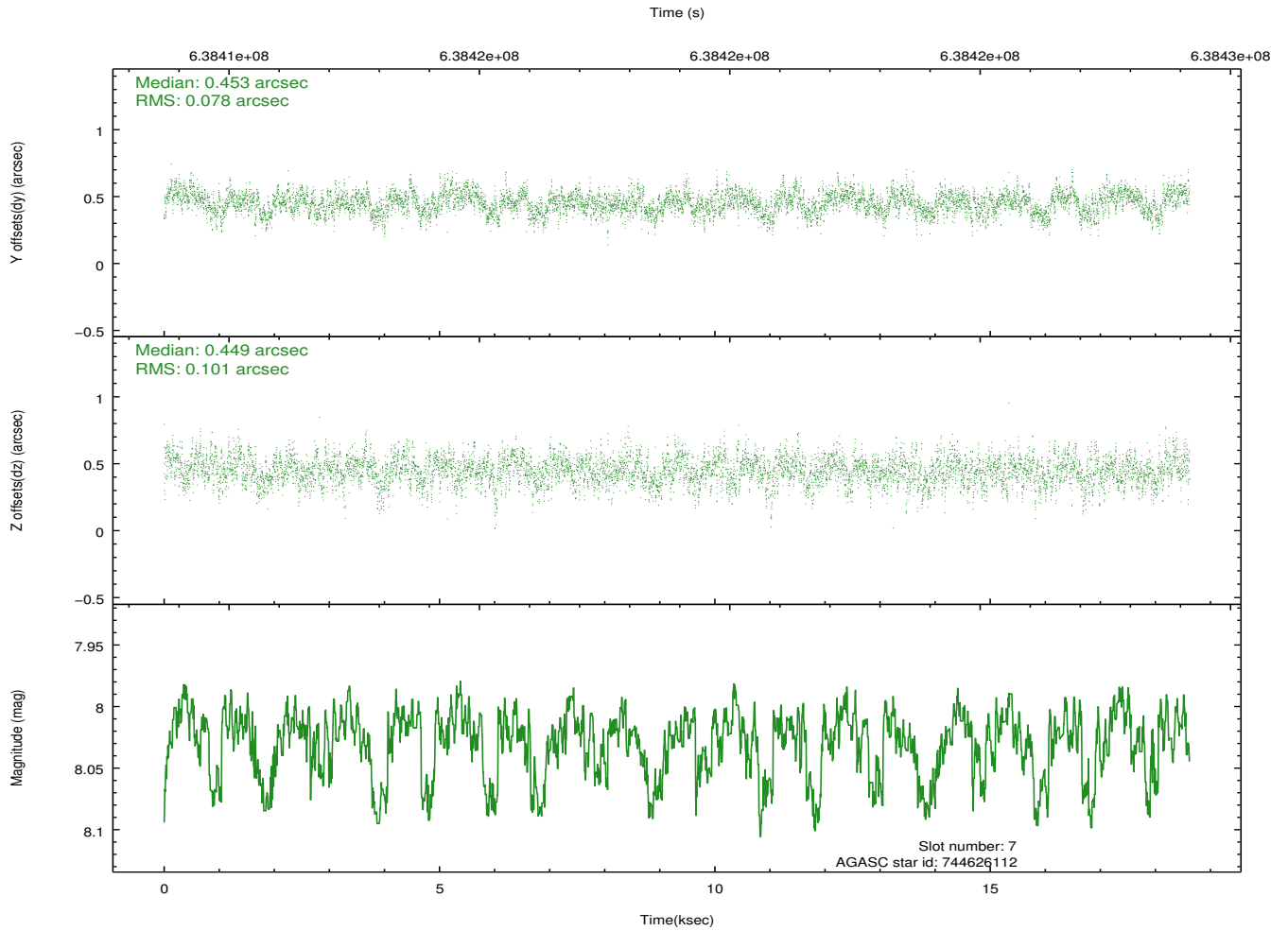
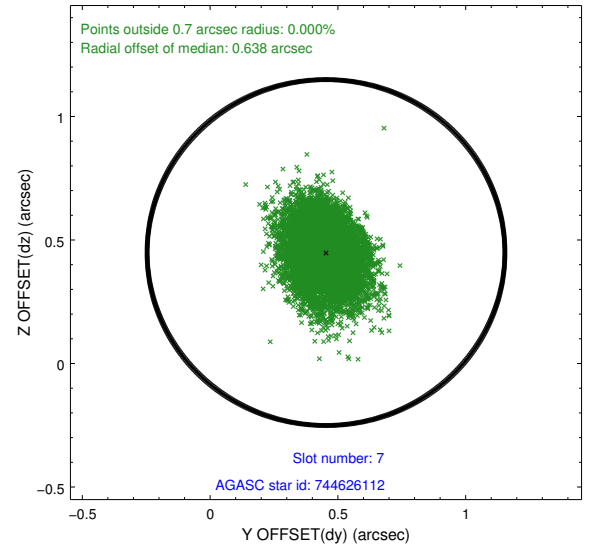
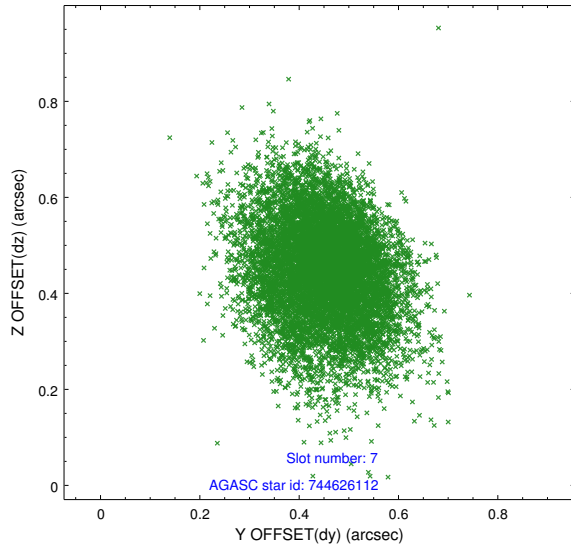
2.4.3 Slot 5



2.4.4 Slot 6

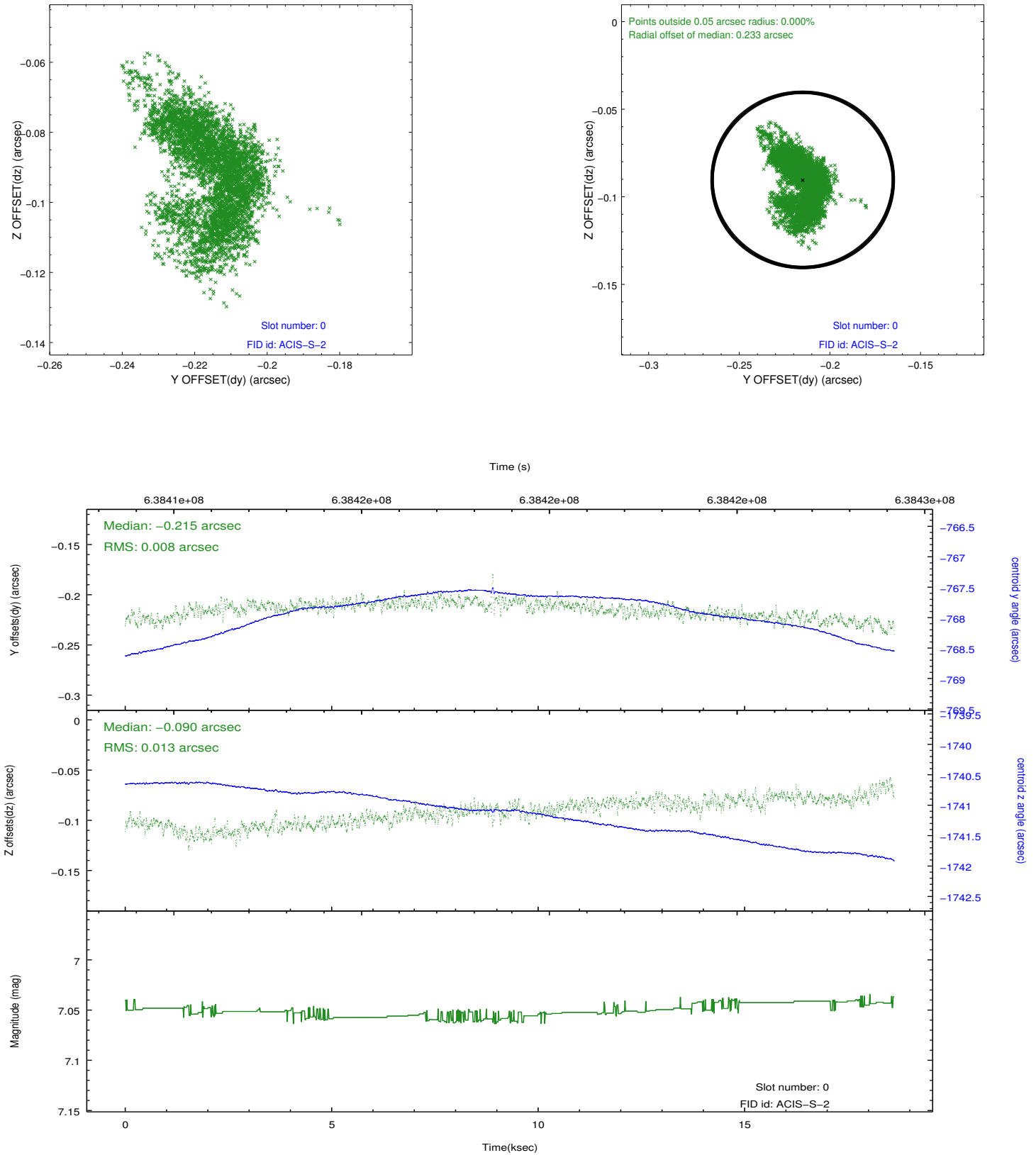


2.4.5 Slot 7

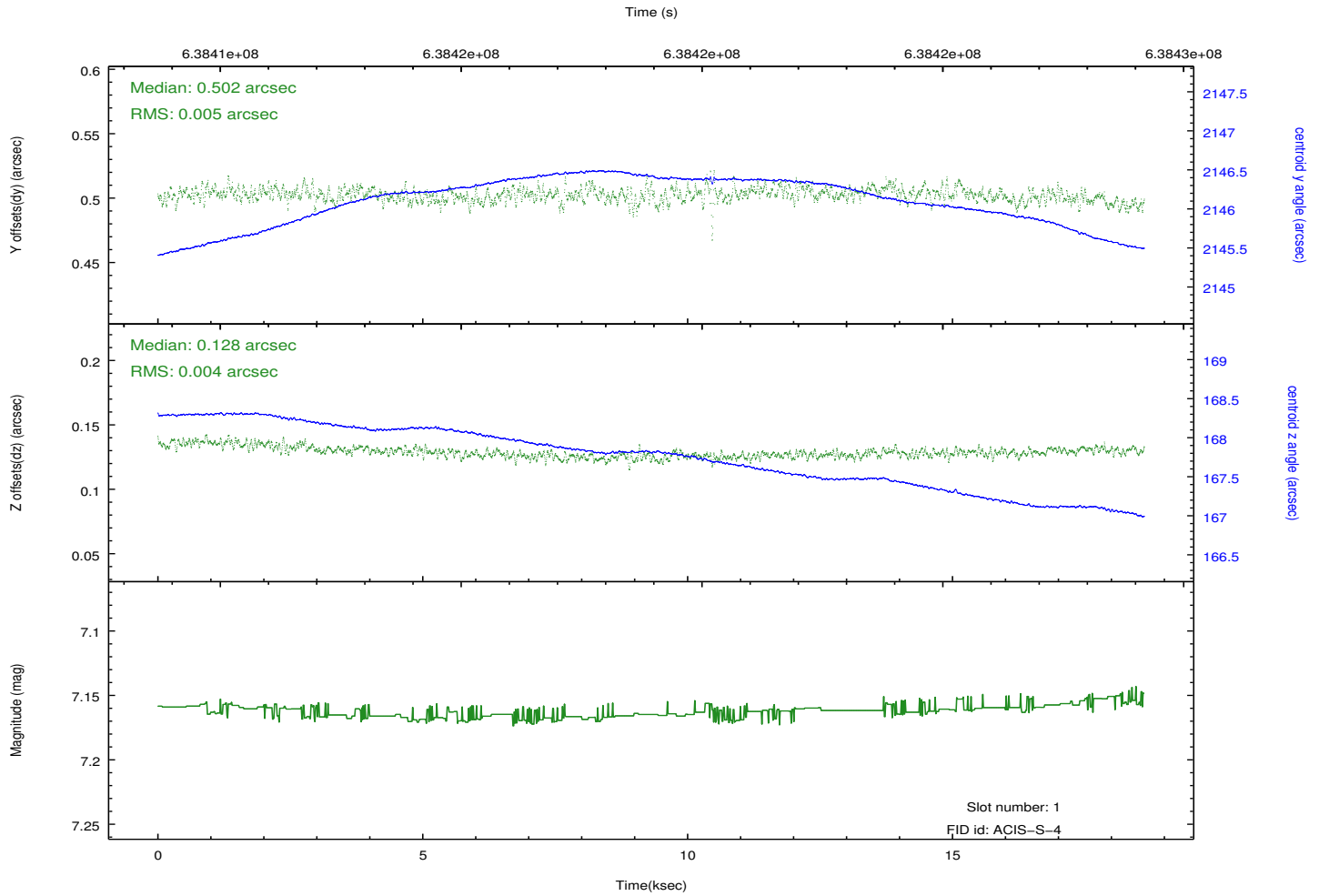
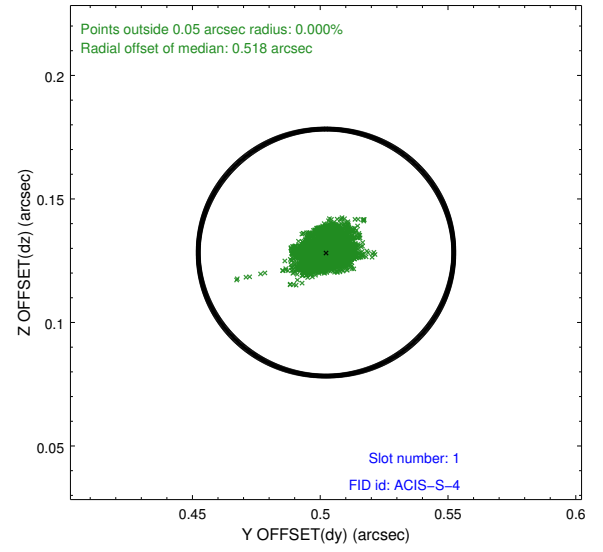
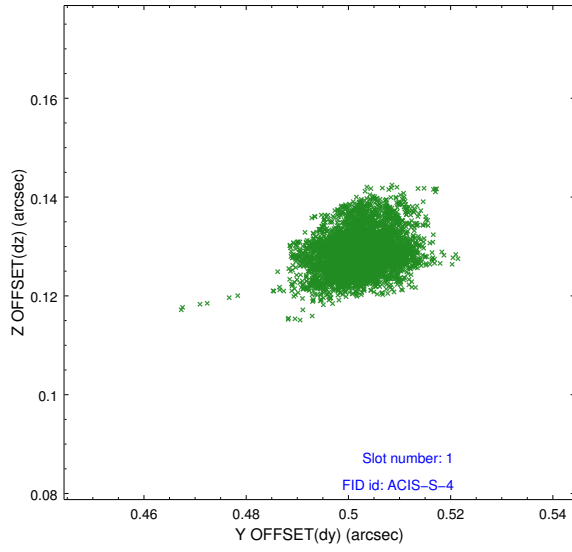


2.5 FID Slots

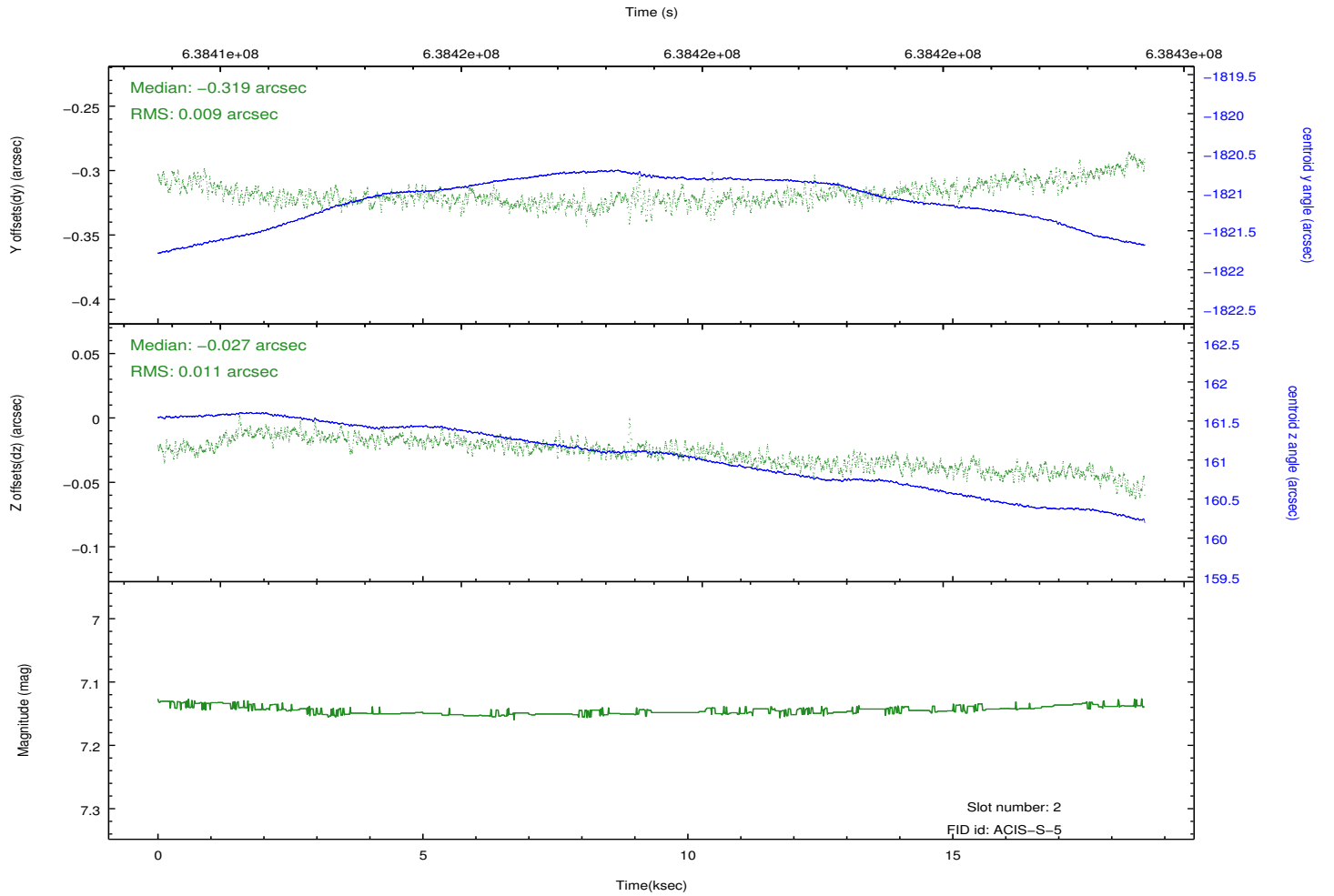
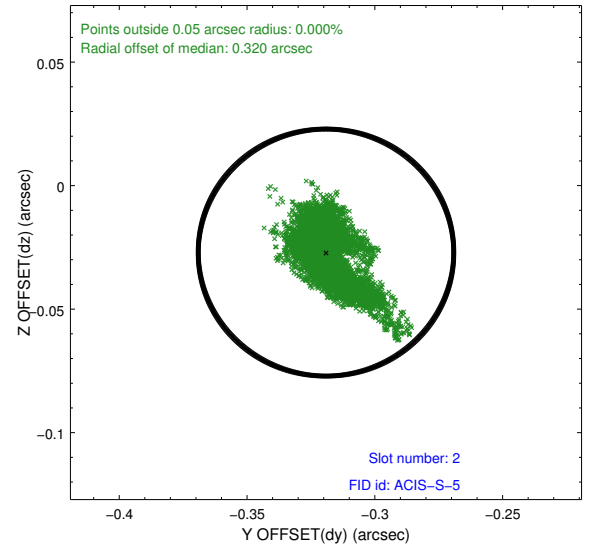
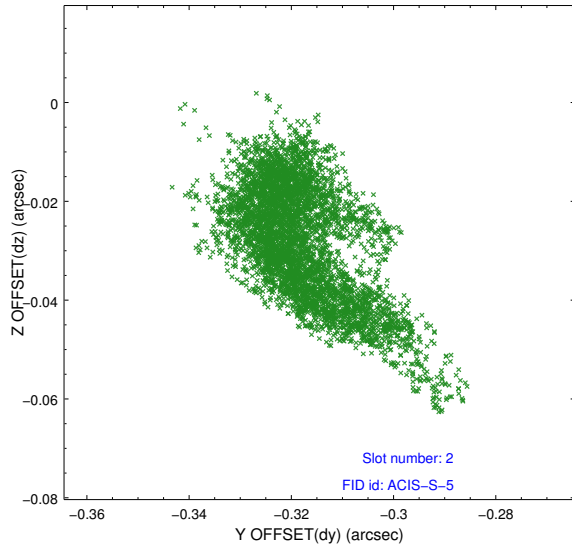
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.602

A.2 Comments