

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21475 - L2 Version 1
Chandra X-Ray Center

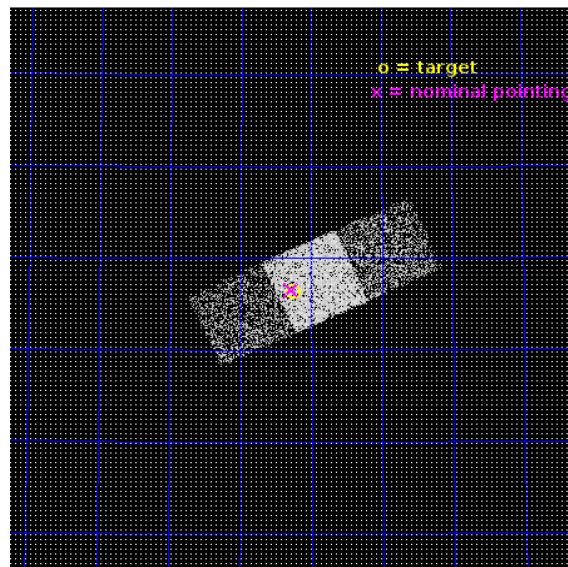
L2 Processing Date : Dec 16 2018

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1 Front

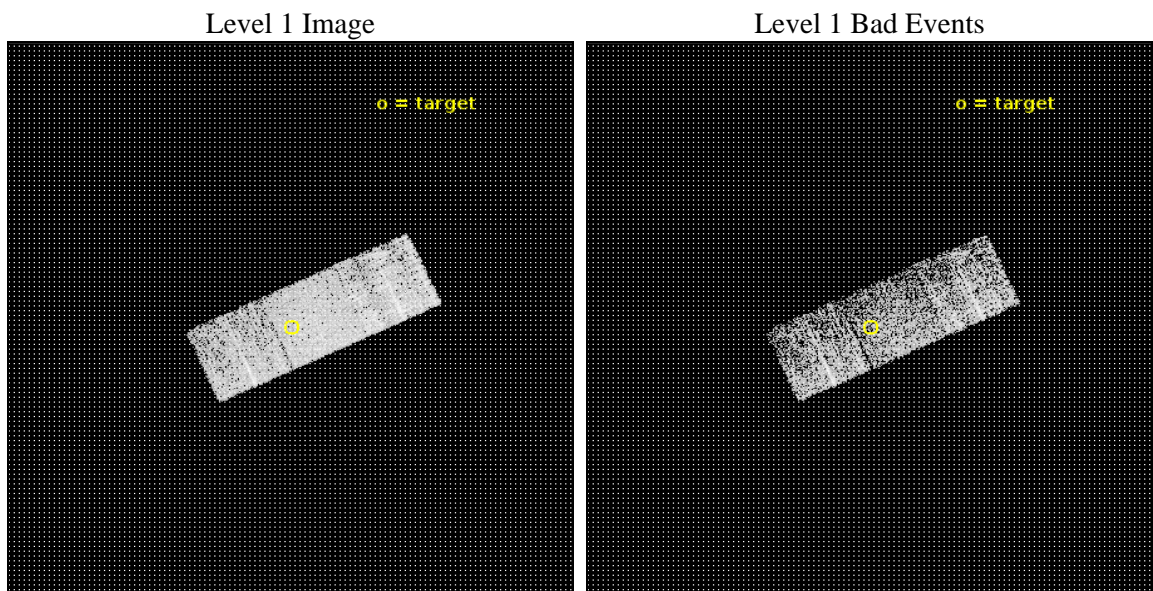
seq_num	703771	Sequence number
obs_id	21475	Observation id
title	RUNAWAY TIDAL CAPTURE IN NUCLEAR STAR CLUSTERS AS A FORMATION PATHWAY FOR MASSIVE BLACK HOLES	Proposal title
observer	Vivienne Baldassare	Principal investigator
object	UGC 11583	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	307.563333	Observer's specified target RA [deg]
dec_targ	60.440667	Observer's specified target Dec [deg]
ra_nom	307.57065359883	Nominal RA [deg]
dec_nom	60.443140052076	Nominal Dec [deg]
roll_nom	335.15058387194	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2111.1000163555	Sum of GTIs [s]
livetime	2083.5169404726	Livetime [s]
ontime6	2111.1000163555	Sum of GTIs [s]
ontime7	2111.1000163555	Sum of GTIs [s]
ontime8	2111.1000163555	Sum of GTIs [s]
l2events	12110	Number of level 2 events



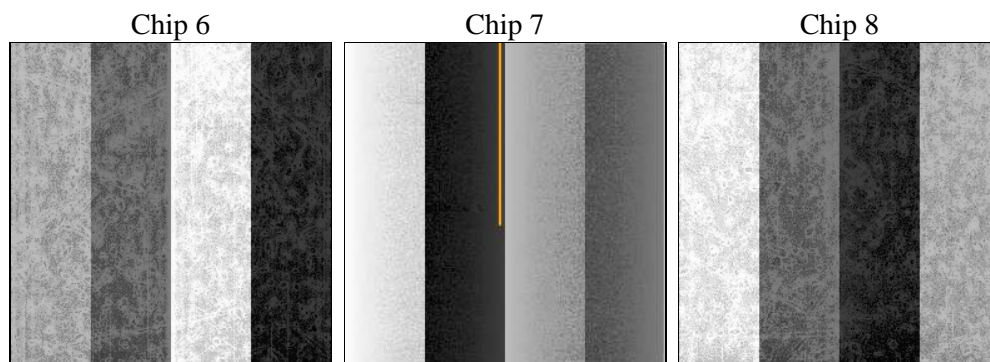
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	2111.1000163555	Sum of GTIs [s]
caldsver	4.8.2	 	ontime6	2111.1000163555	Sum of GTIs [s]
date	2018-12-16T13:02:19	Date and time of file creation	ontime7	2111.1000163555	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	2111.1000163555	Sum of GTIs [s]
			l1events	56482	Number of level 1 events

2.1.4 Events

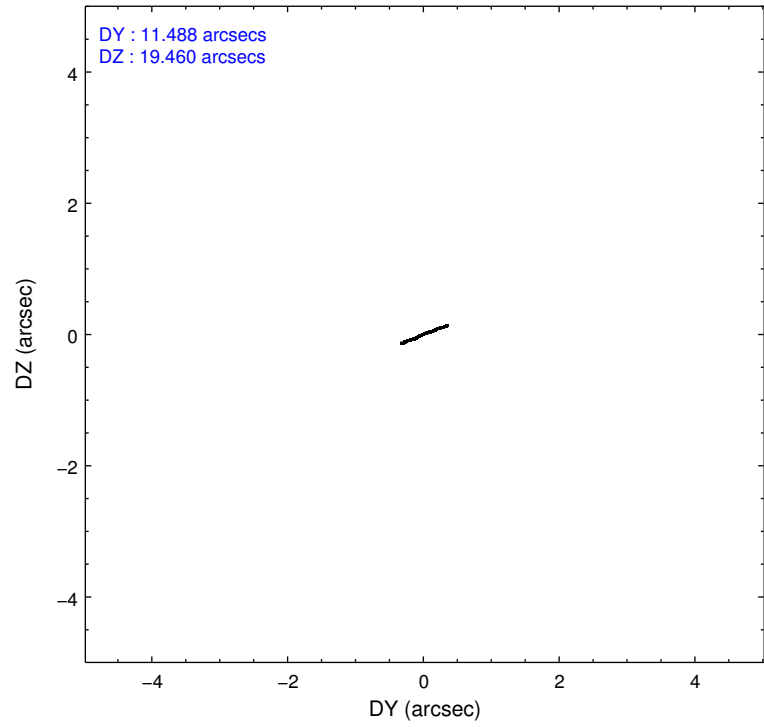
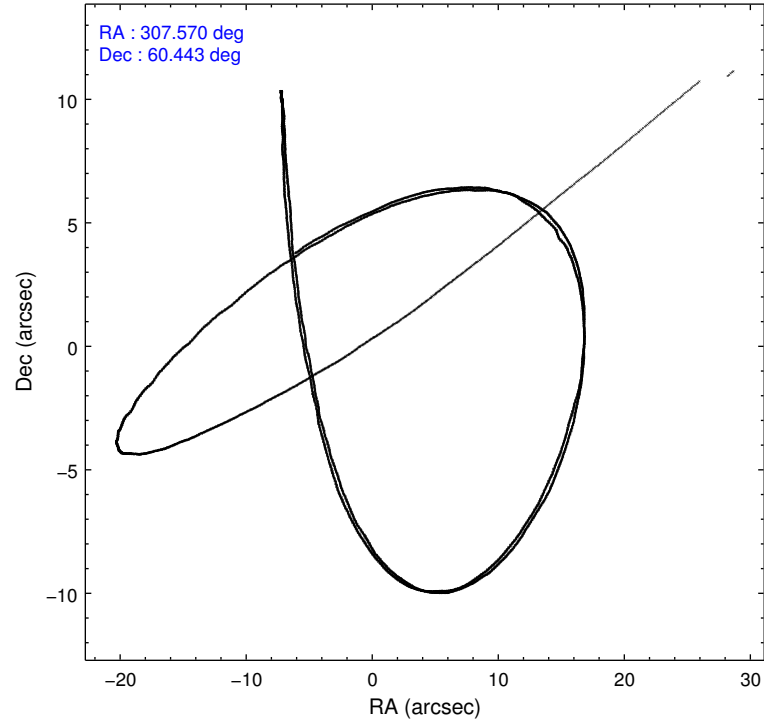
	ccd 6	ccd 7	ccd 8
level 1 events	15173	20077	21232
rejected events	13384	11204	15090
rejected %	88%	55%	71%

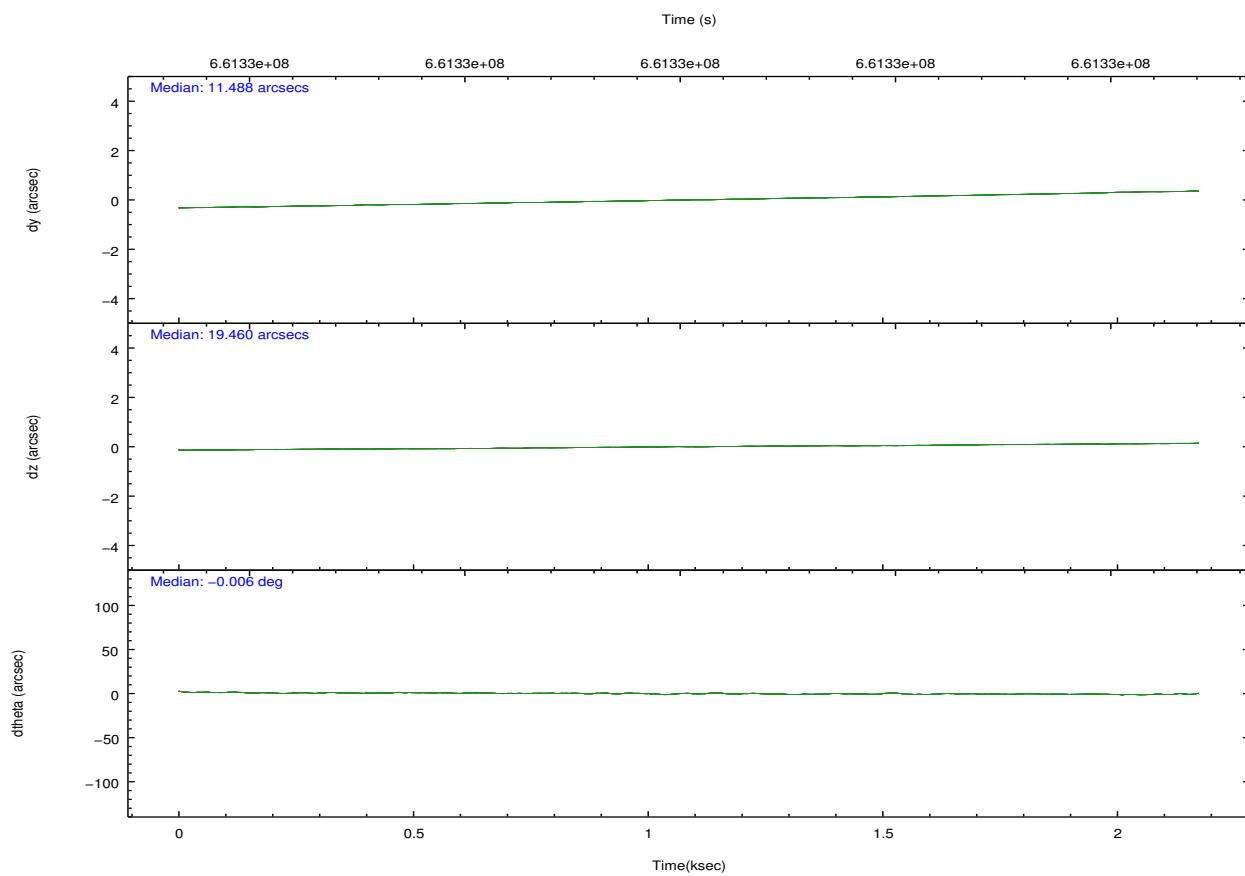
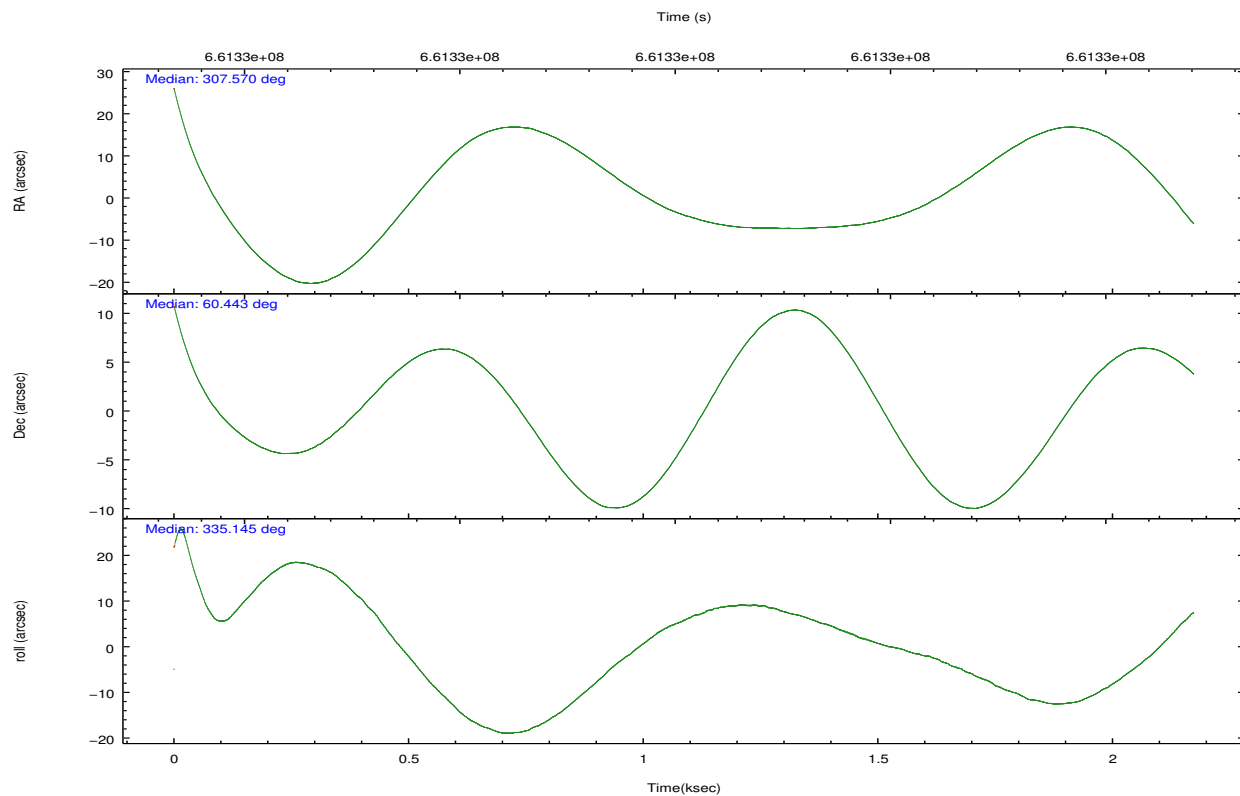
	ccd 6	ccd 7	ccd 8
grade 0 events	599	756	1764
	3%	3%	8%
grade 1 events	10	20	19
	0%	0%	0%
grade 2 events	399	1937	1475
	2%	9%	6%
grade 3 events	199	683	621
	1%	3%	2%
grade 4 events	165	699	596
	1%	3%	2%
grade 5 events	747	1970	1114
	4%	9%	5%
grade 6 events	431	4830	1692
	2%	24%	7%
grade 7 events	12623	9182	13951
	83%	45%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	307.515265	307.5706535988296	CCD I2 on	N	N
[deg] Pointing Dec	60.440224	60.44314005207619	CCD I3 on	N	N
[deg] Pointing Roll	335.041814	335.1505838719372	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	661326618.184000	661325743.6184	CCD S5 on	N	N
Observation start date	2018-12-16T05:49:09	2018-12-16T05:35:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	661328618.184000	661329872.31864	On-chip summing requested	N	N
Observation end date	2018-12-16T06:22:29	2018-12-16T06:44:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



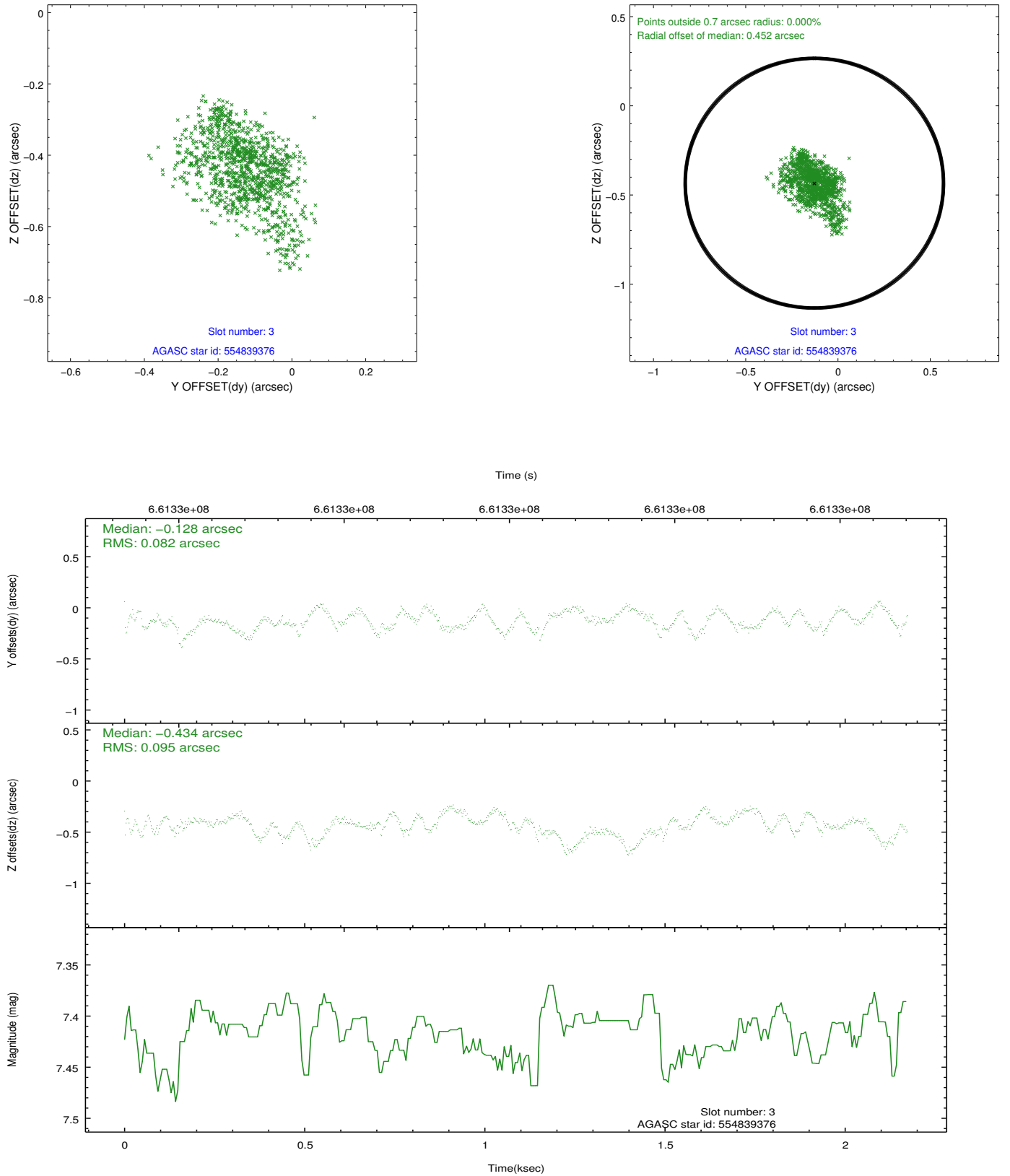


Slot Statistics

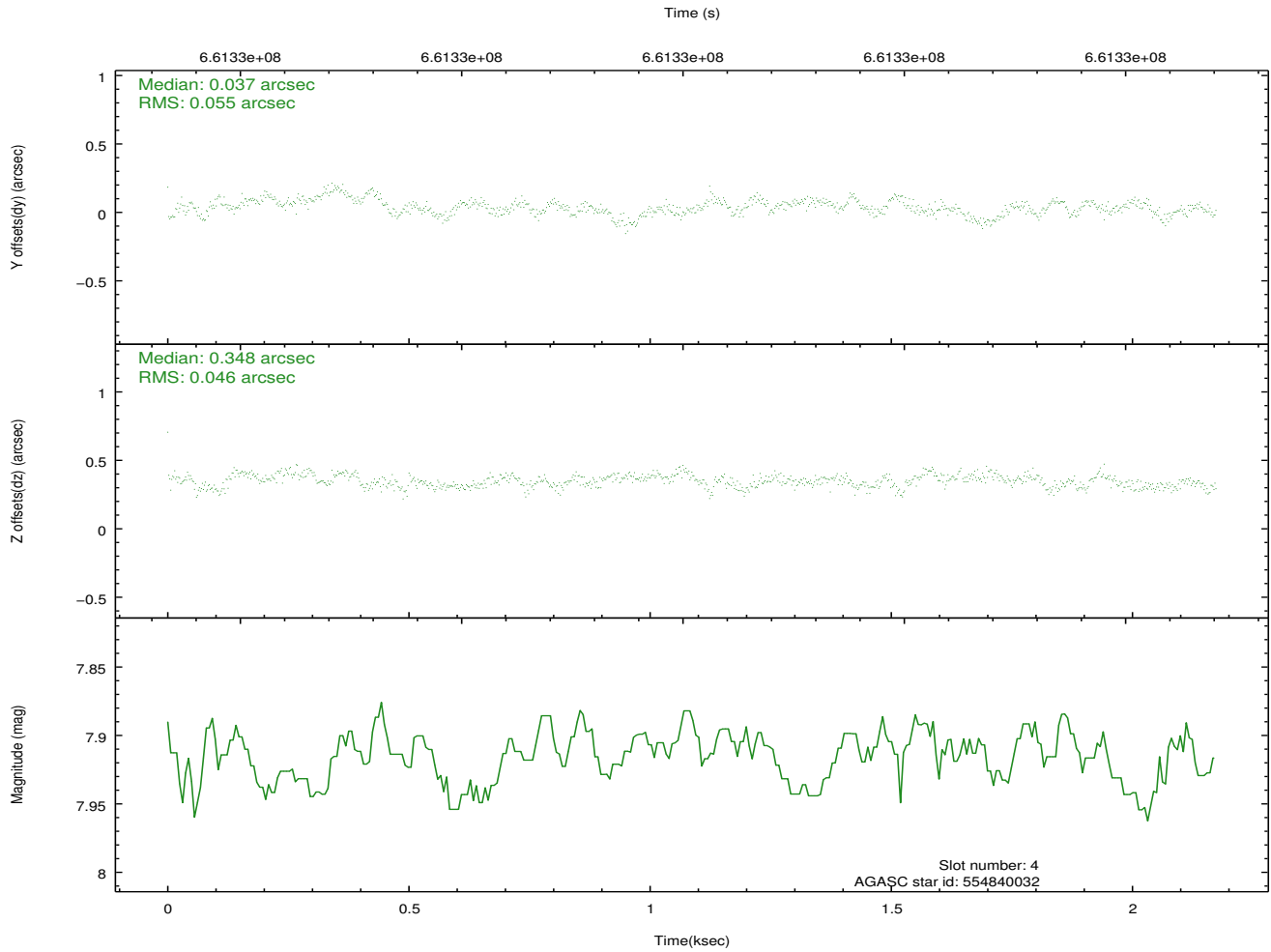
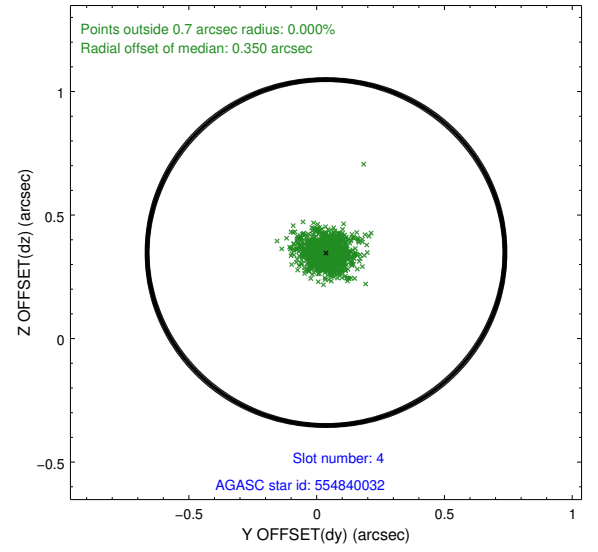
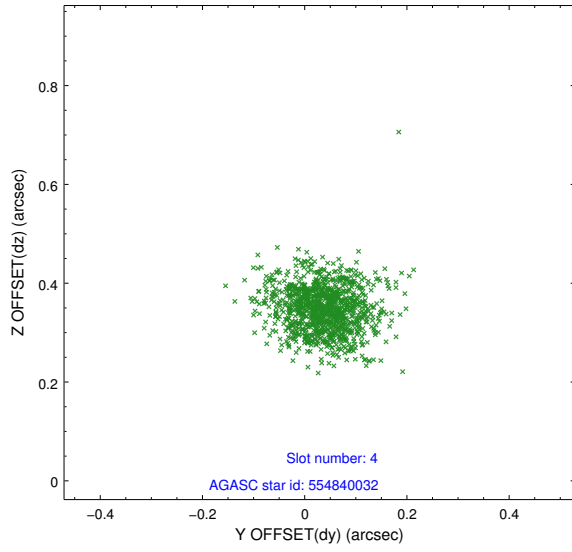
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.02	531	1.000	-0.289	-0.157	0.009	0.014	0.000000	0.000000	-764.60	-1741
1	FID		ACIS-S-4	7.15	531	1.000	0.704	0.181	0.005	0.010	0.000000	0.000000	2148.24	164
2	FID		ACIS-S-5	7.14	531	1.000	-0.446	-0.016	0.010	0.018	0.000000	0.000000	-1813.81	161
3	GUIDE	used	554839376	7.41	1060	1.000	-0.128	-0.434	0.130	0.223	308.018563	60.422364	837.49	320
4	GUIDE	used	554840032	7.91	1060	1.000	0.037	0.348	0.074	0.125	306.311430	60.467415	-1984.83	-794
5	GUIDE	used	554840568	7.99	1061	1.000	-0.404	-0.286	0.098	0.166	307.398814	60.992488	-1026.22	1716
6	GUIDE	used	554842440	8.15	1060	1.000	0.181	-0.061	0.119	0.199	307.970960	60.063321	1313.54	-879
7	GUIDE	used	554848304	8.84	1054	1.000	0.305	0.451	0.130	0.212	306.144085	60.079049	-1692.21	-2195

2.4 Star Slots

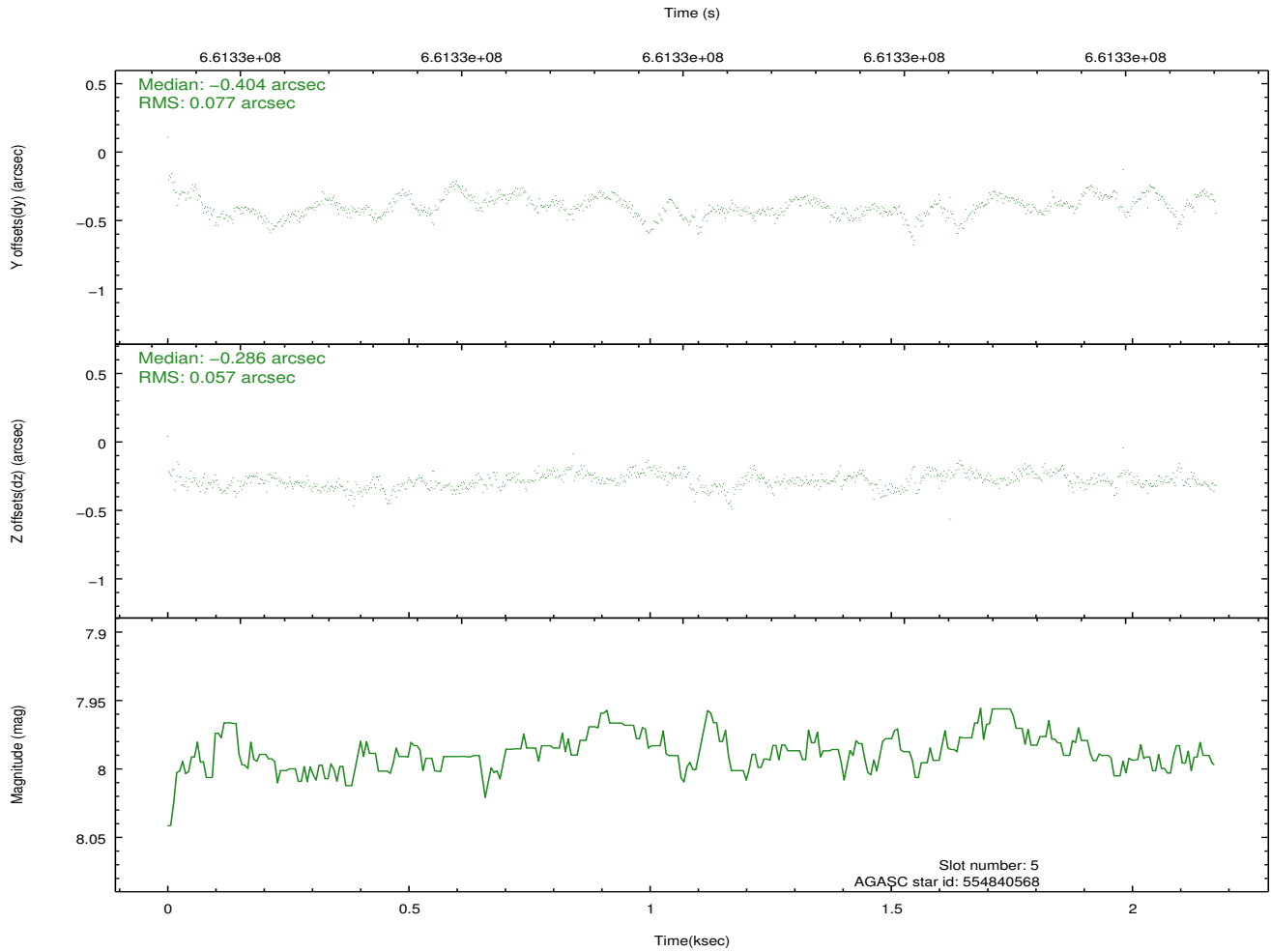
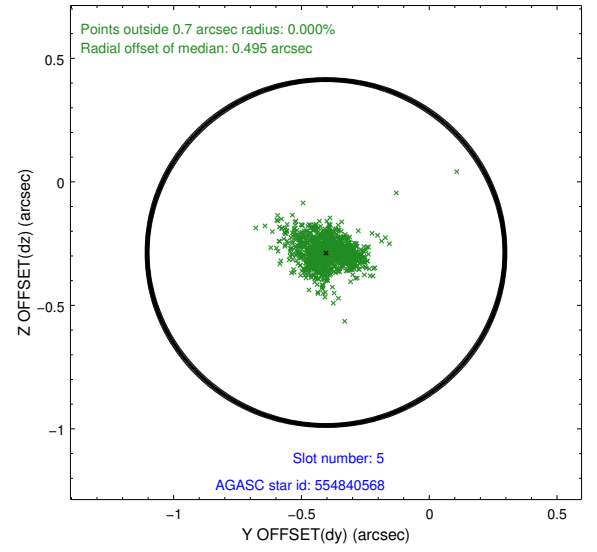
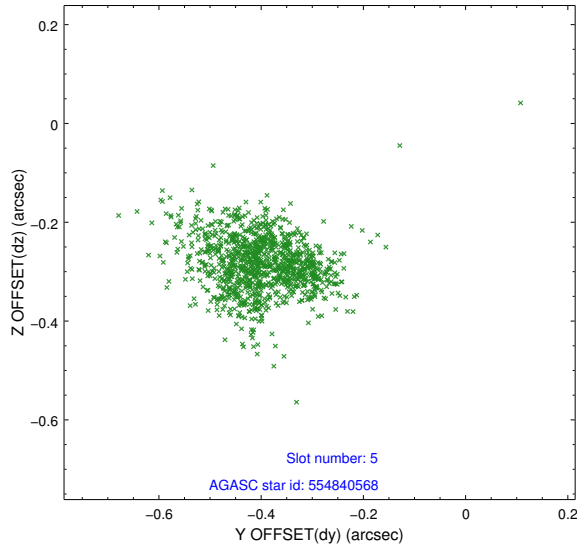
2.4.1 Slot 3



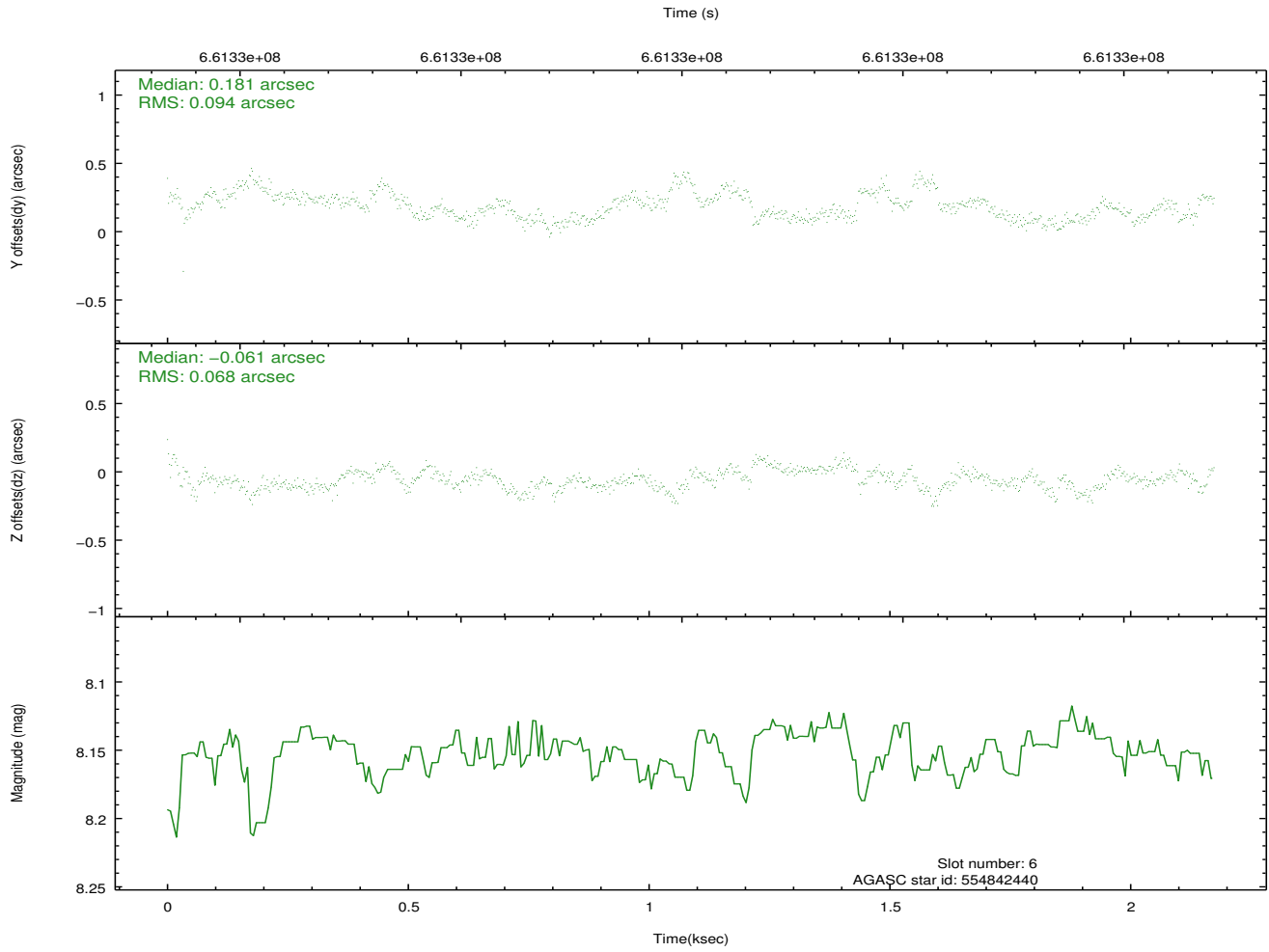
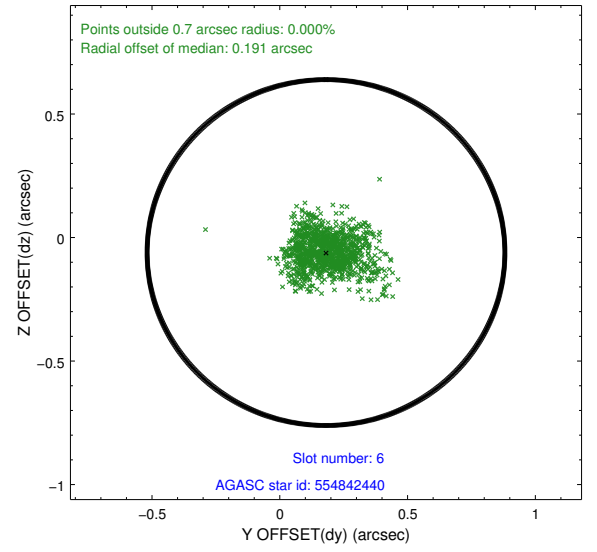
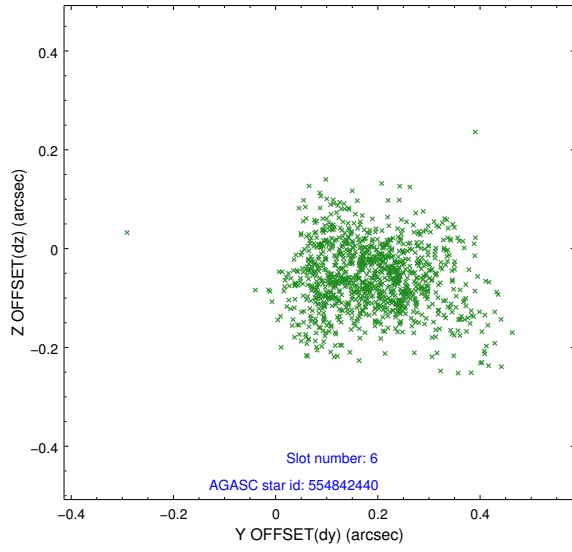
2.4.2 Slot 4



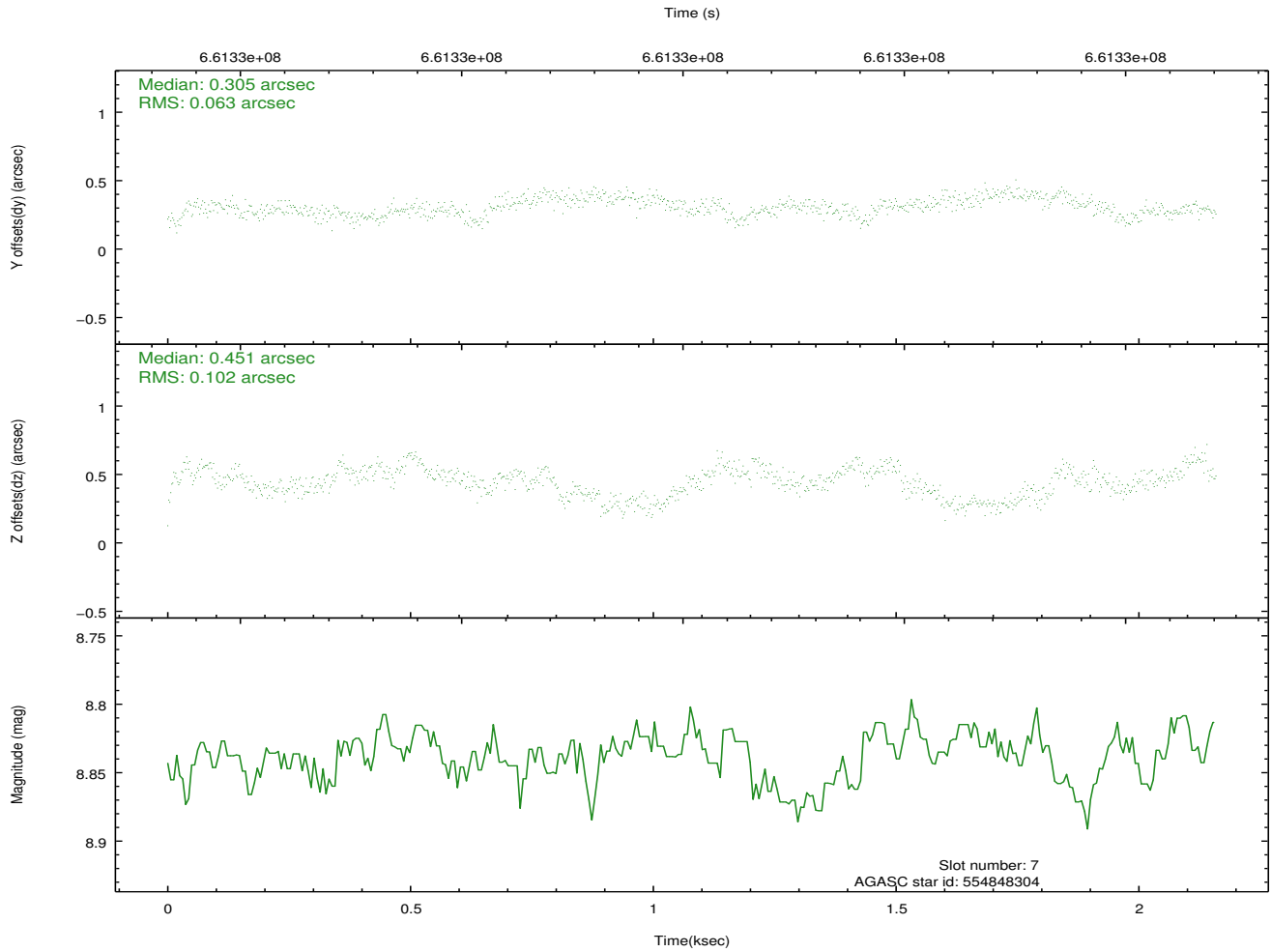
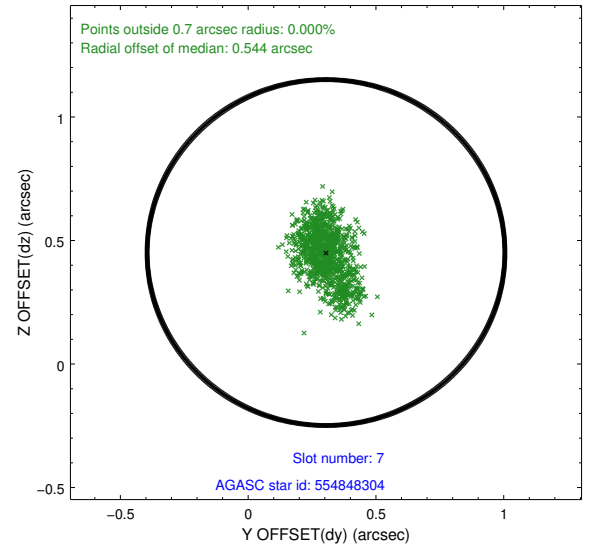
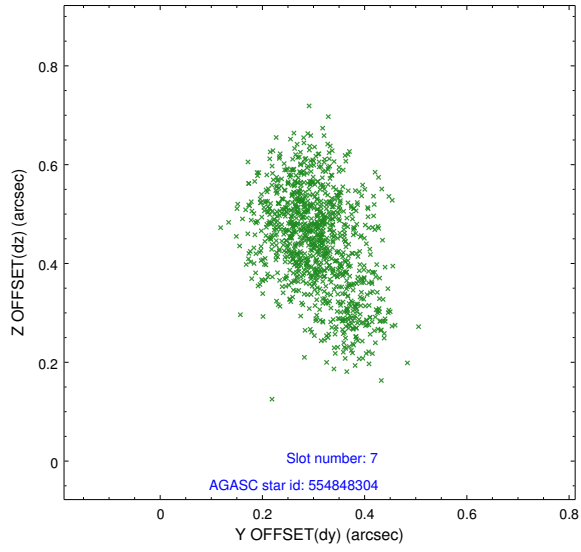
2.4.3 Slot 5



2.4.4 Slot 6

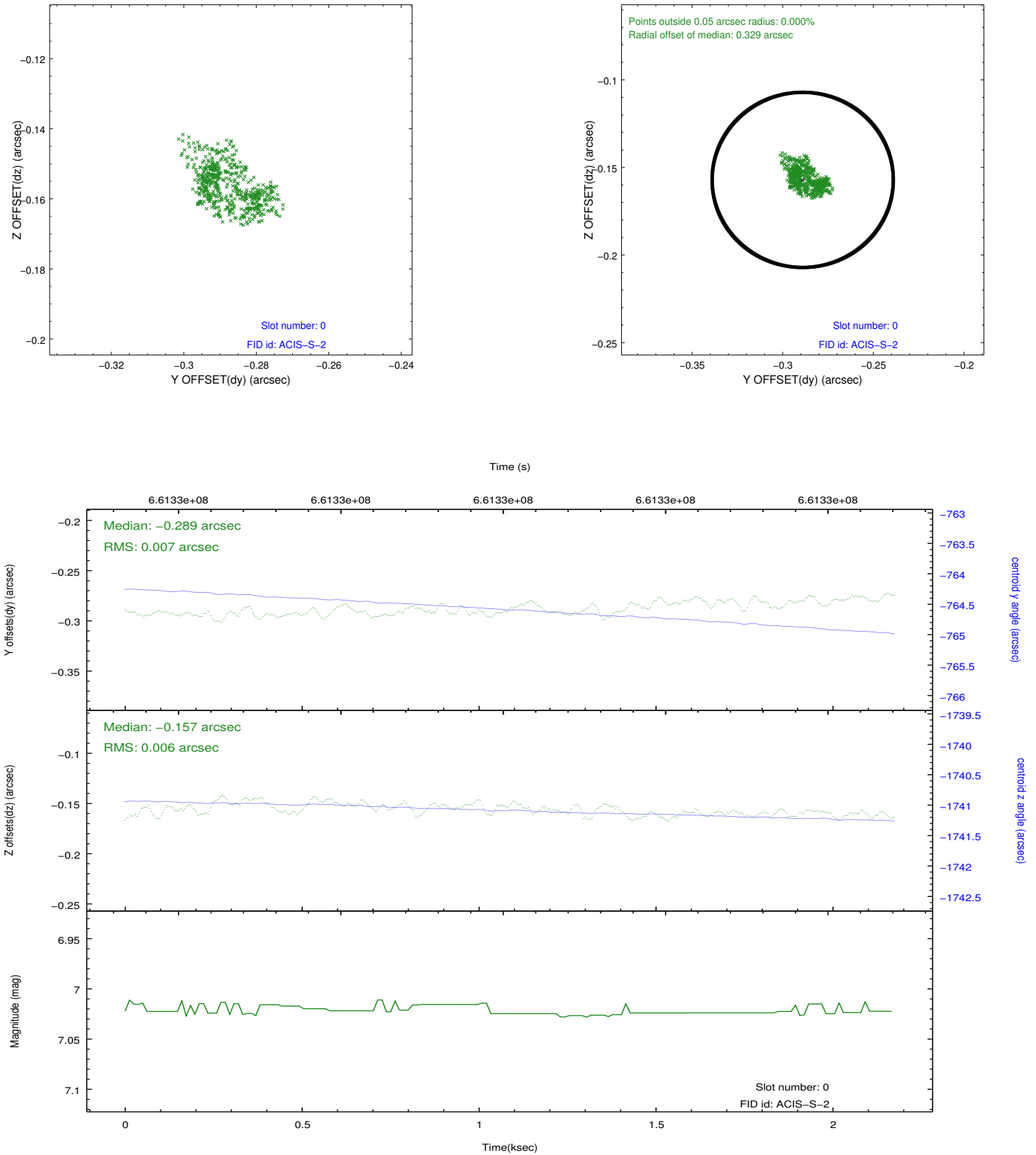


2.4.5 Slot 7

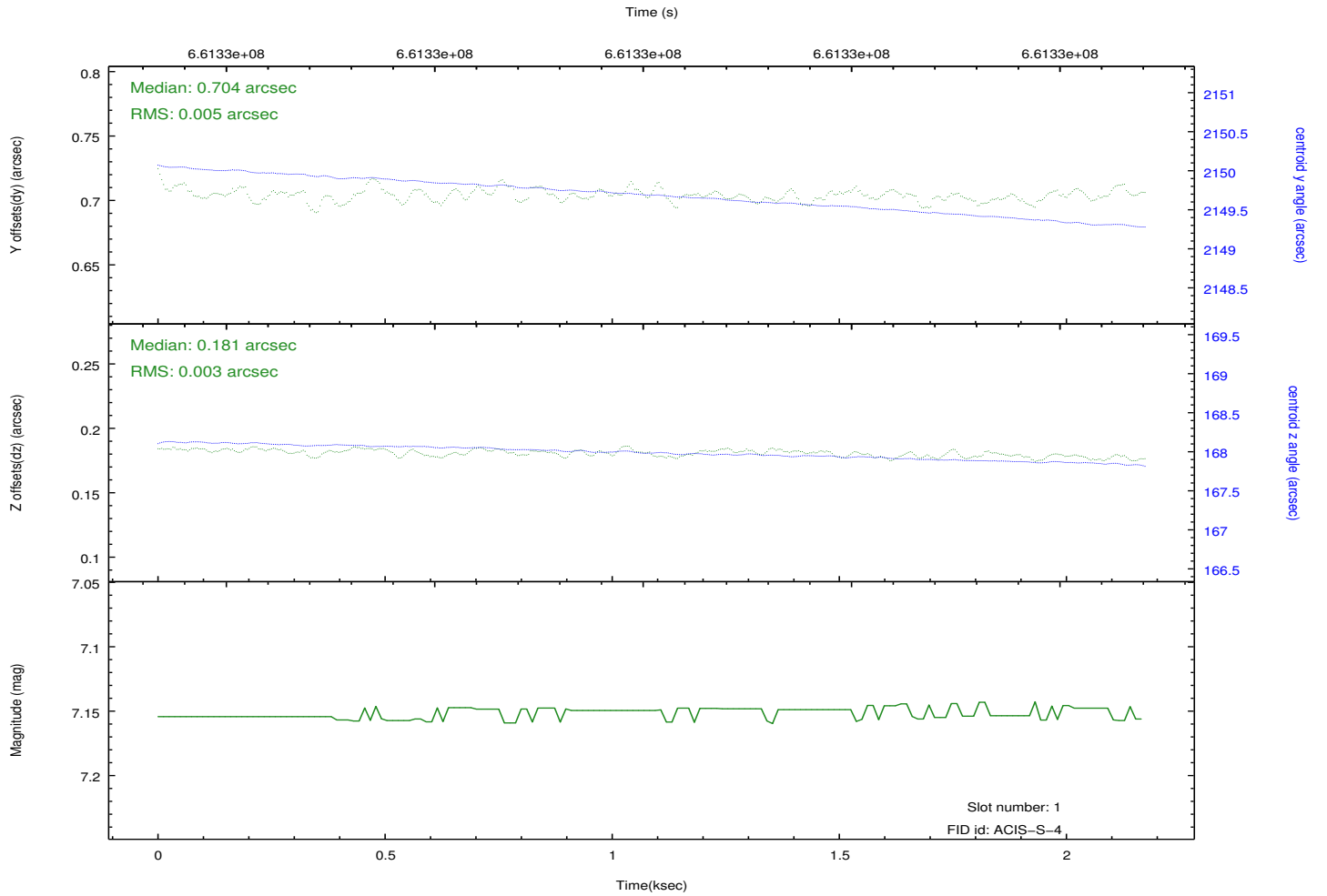
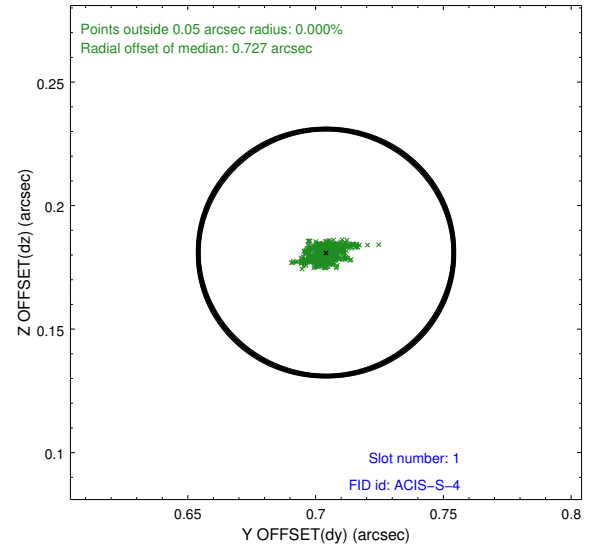
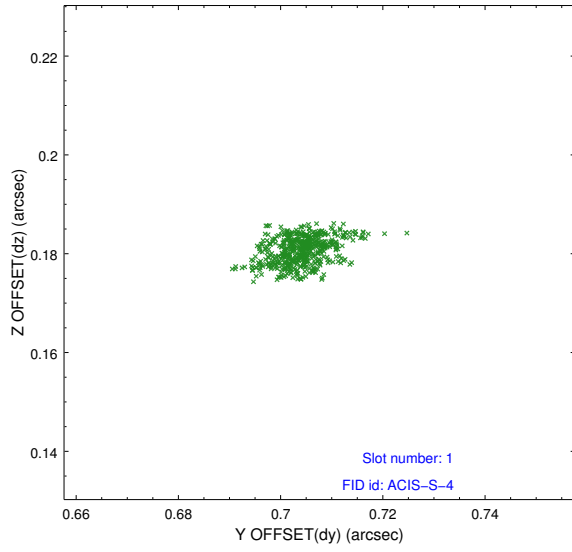


2.5 FID Slots

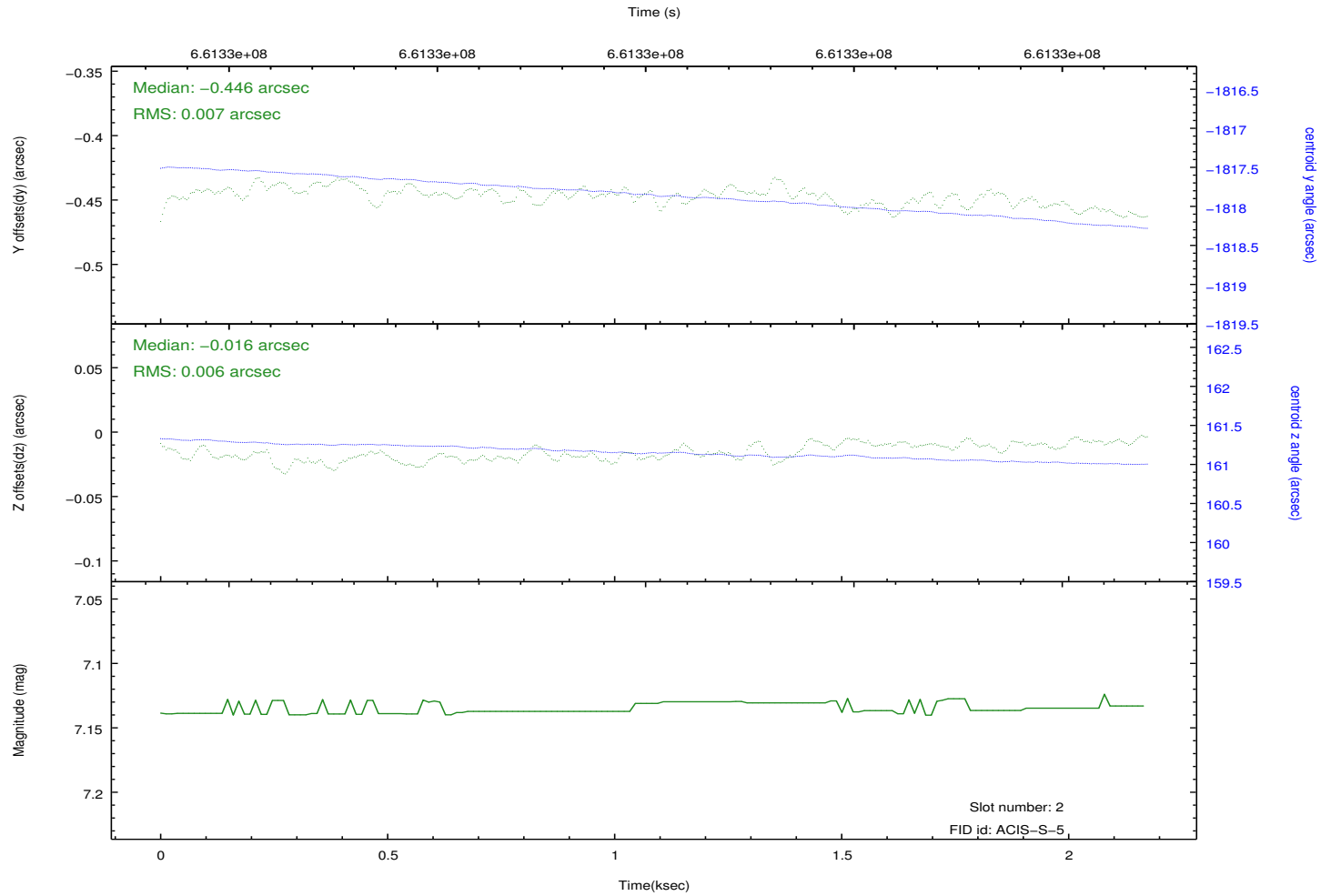
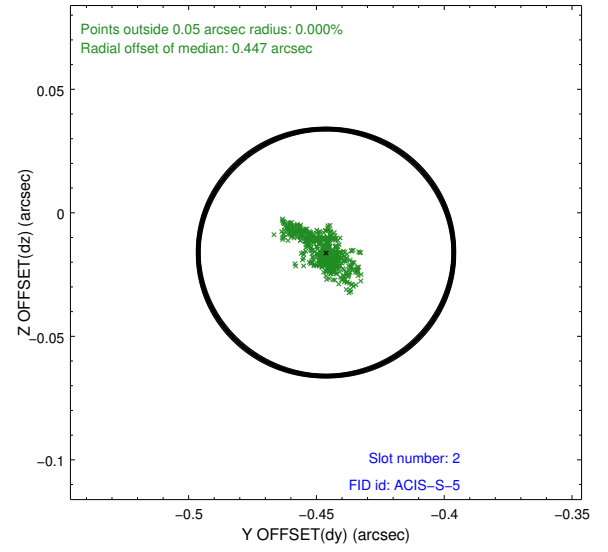
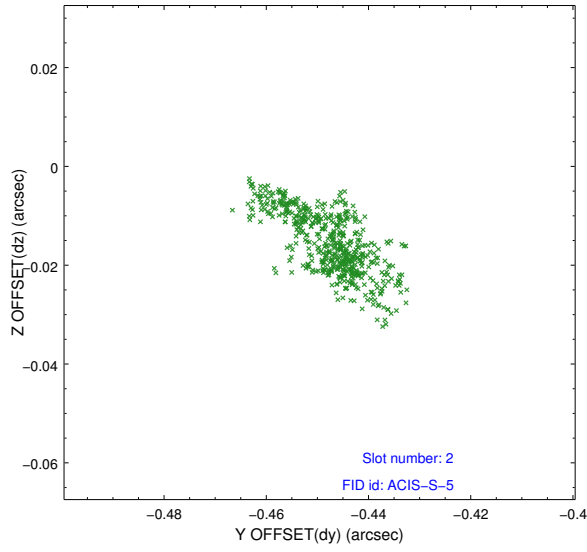
2.5.1 Slot 0



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)	2018.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1111000163555

A.2 Comments