

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 23081 - L2 Version 1
Chandra X-Ray Center

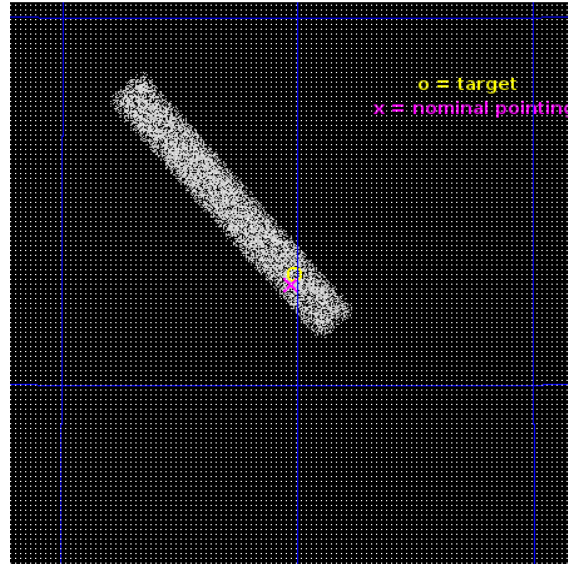
L2 Processing Date : Dec 3 2019

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1 Front

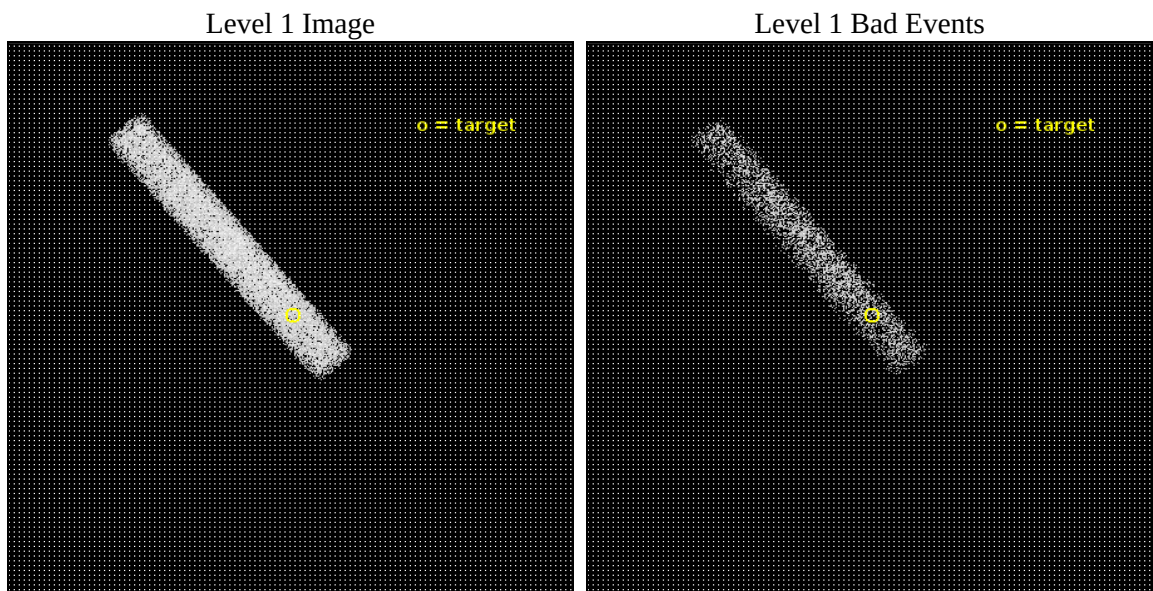
seq_num	503197	Sequence number
obs_id	23081	Observation id
title	Simultaneous X-ray and Radio Observations of the Second Localized Repeating Fast Radio Burst	Proposal title
observer	Paul Scholz	Principal investigator
object	FRB 180916.J0158+65	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	29.503333	Observer's specified target RA [deg]
dec_targ	65.71675	Observer's specified target Dec [deg]
ra_nom	29.506493513193	Nominal RA [deg]
dec_nom	65.712179226524	Nominal Dec [deg]
roll_nom	229.57906855729	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18070.653949261	Sum of GTIs [s]
livetime	16389.129284655	Livetime [s]
ontime7	18070.653949261	Sum of GTIs [s]
l2events	10776	Number of level 2 events



2 OBI

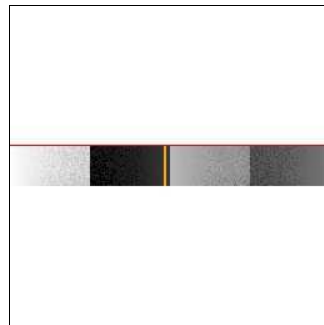
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	18070.653949261	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime7	18070.653949261	Sum of GTIs [s]
date	2019-12-03T13:12:29	Date and time of file creation	l1events	23804	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

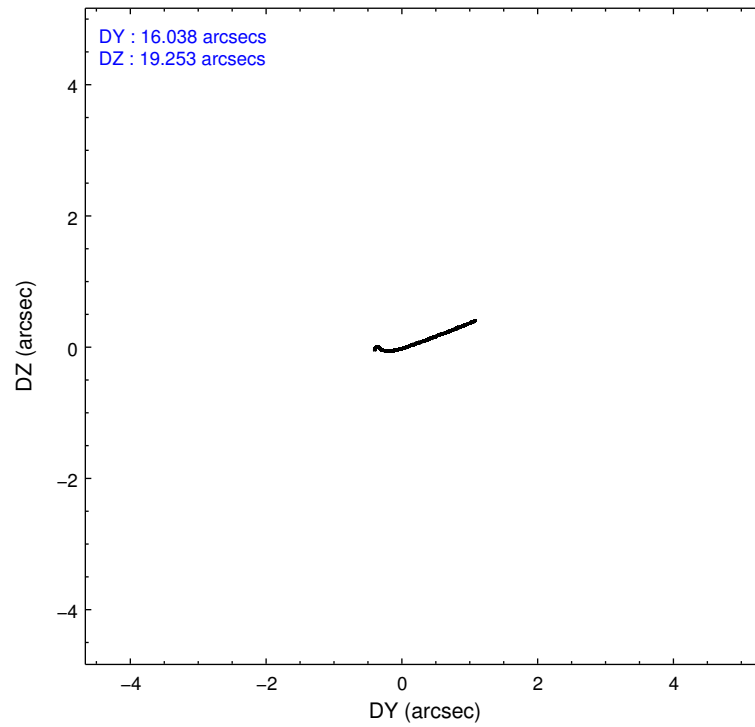
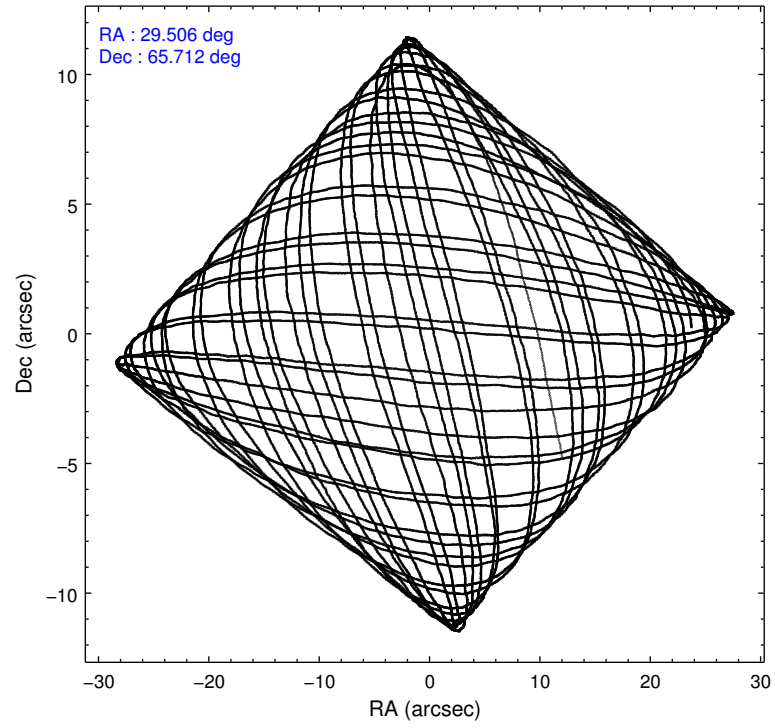
	ccd 7
level 1 events	23804
rejected events	12512
rejected %	52%

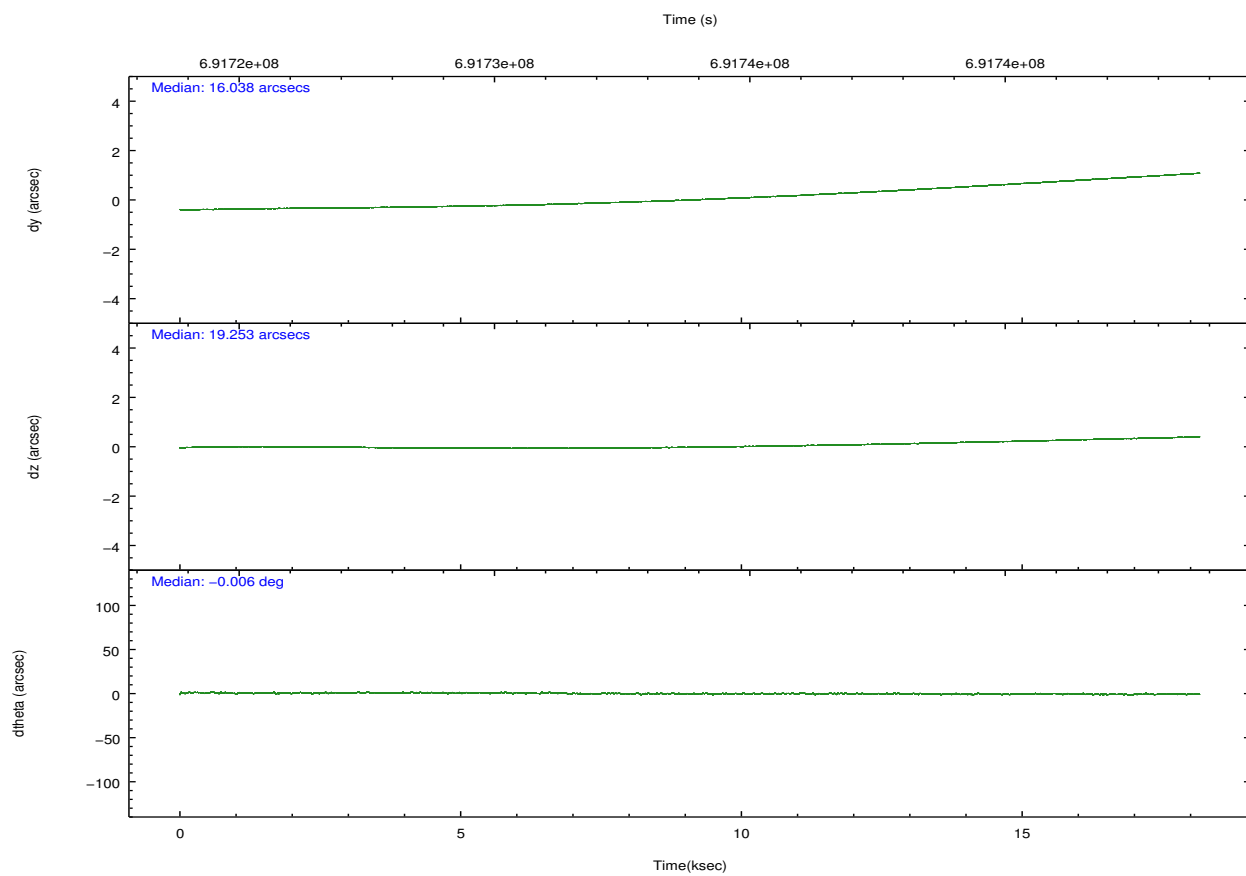
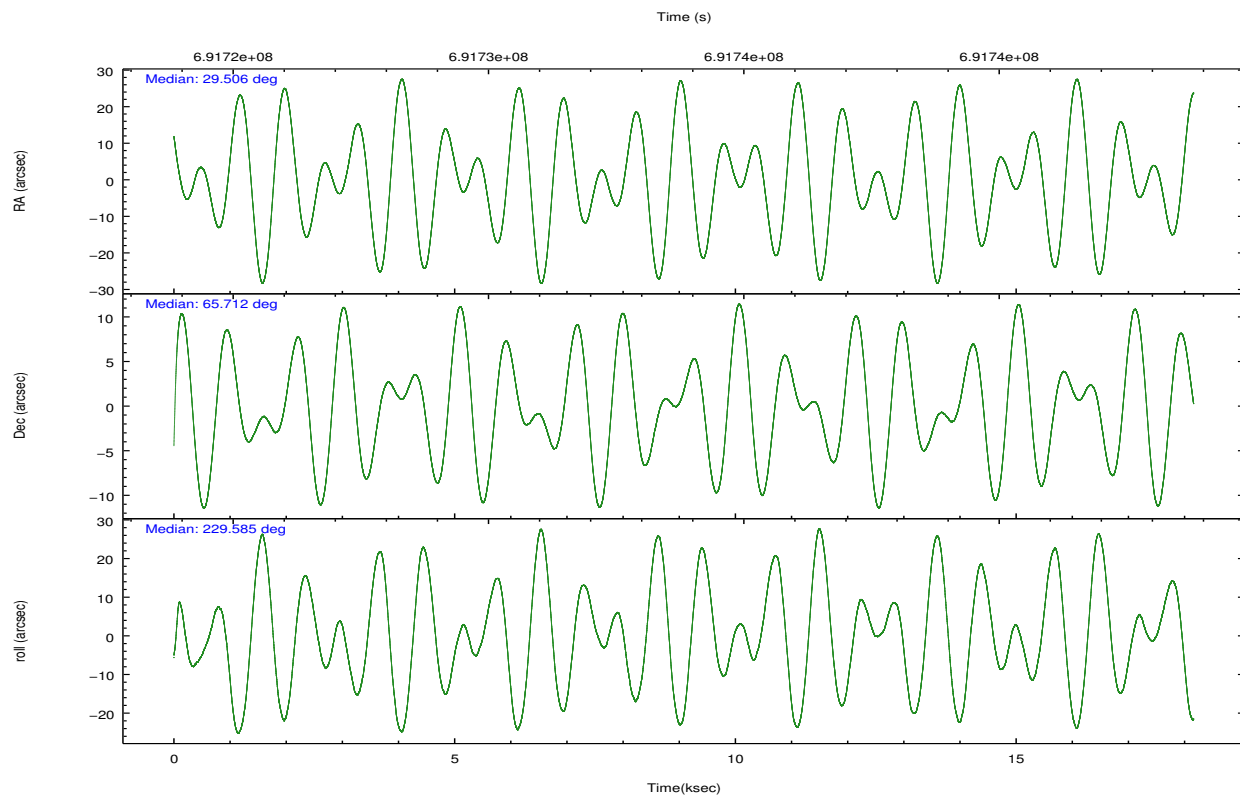
	ccd 7
grade 0 events	1126
	4%
grade 1 events	43
	0%
grade 2 events	2065
	8%
grade 3 events	1404
	5%
grade 4 events	1363
	5%
grade 5 events	2340
	9%
grade 6 events	5334
	22%
grade 7 events	10129
	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	29.517692	29.50649351319296	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	65.739212	65.7121792265245	Subarray start row	449	449
[deg] Pointing Roll	229.412232	229.5790685572947	Subarray row count	128	128
[s] Window start time (MET)	690130869.184000	690130869.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	690390069.184000	690390069.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	691724885.184000	691723983.89202			
Observation start date	2019-12-03T01:46:56	2019-12-03T01:33:03			
[s] Observation end time (MET)	691742885.184000	691743713.60572			
Observation end date	2019-12-03T06:46:56	2019-12-03T07:01:53			
Read mode	TIMED	TIMED			

2.3 Aspect



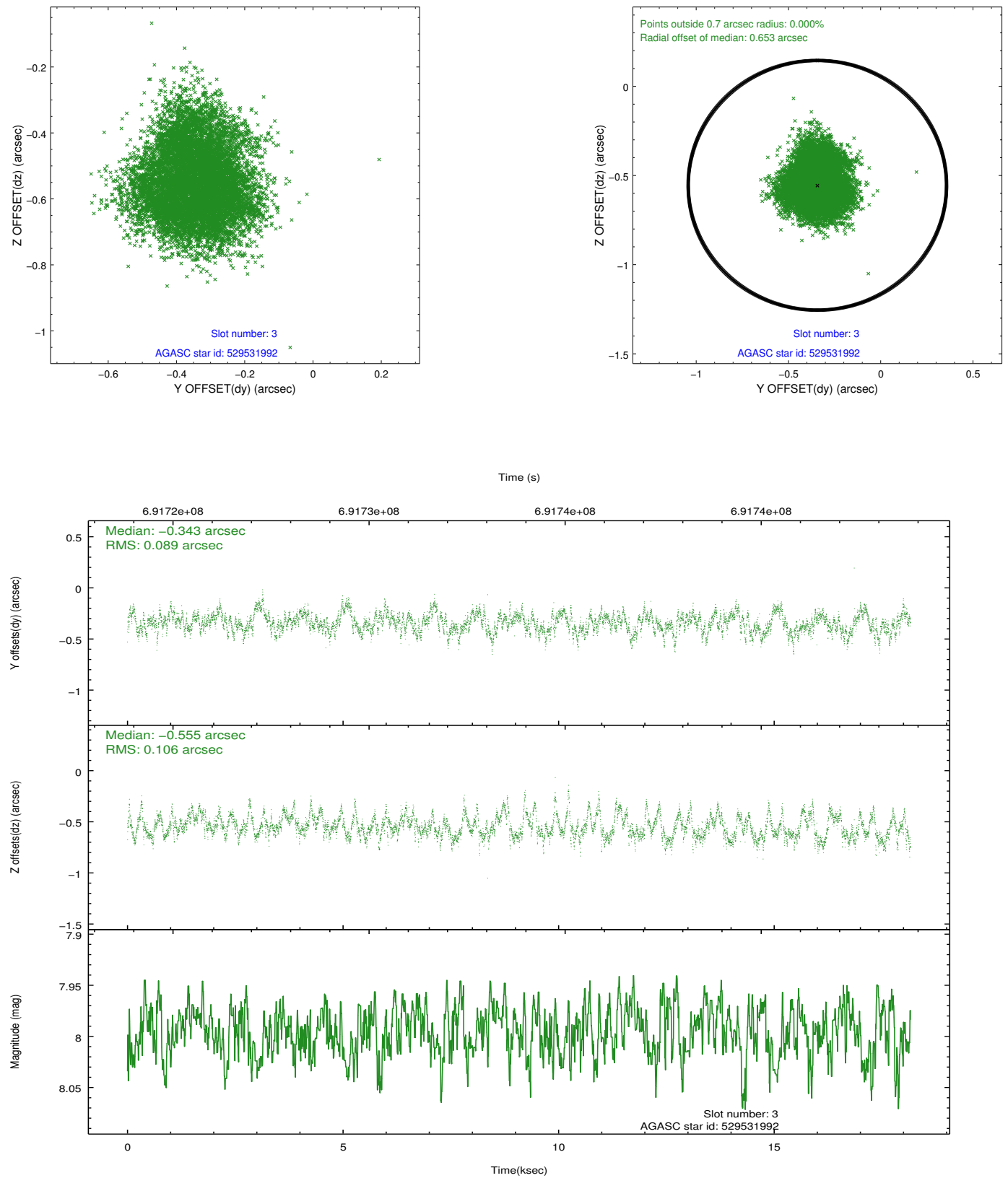


Slot Statistics

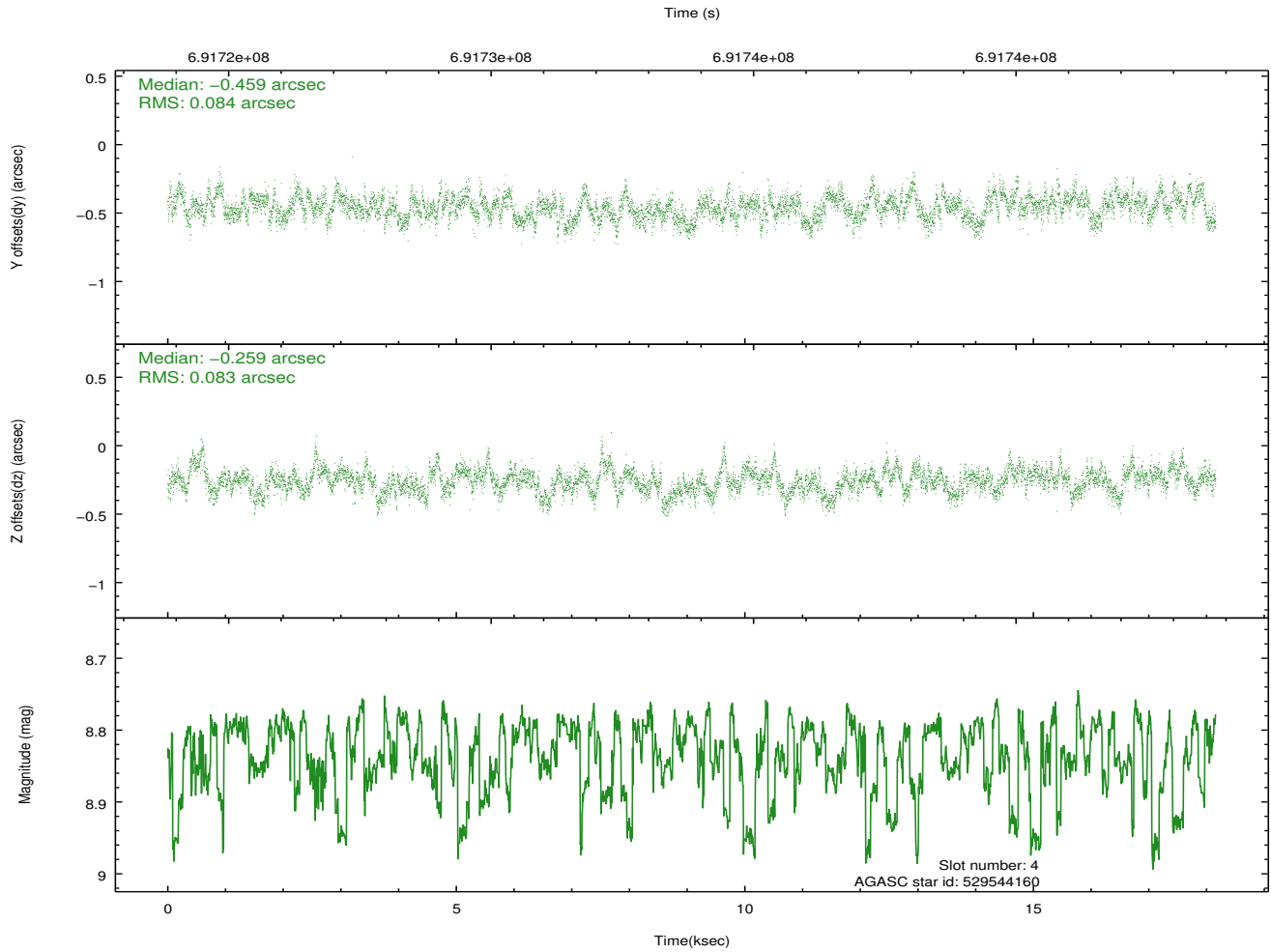
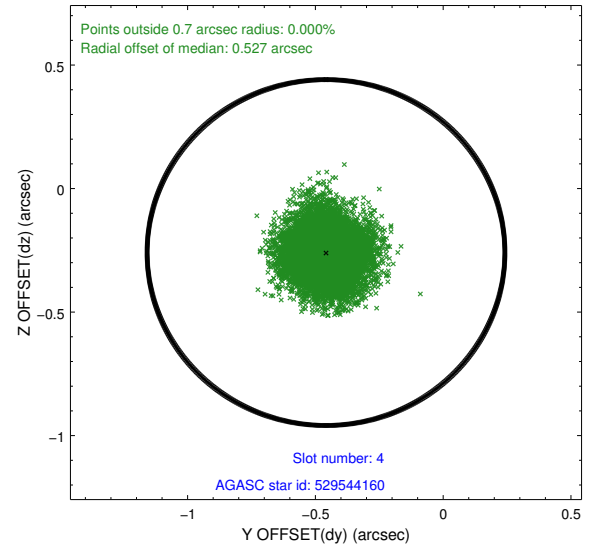
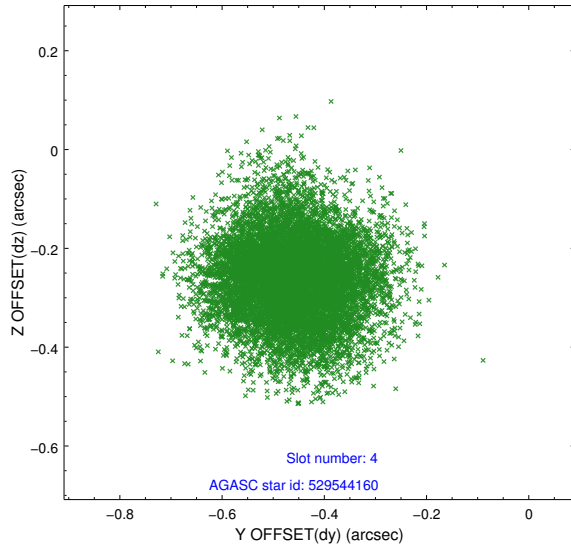
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.18	4430	1.000	-0.324	-0.245	0.012	0.020	0.000000	0.000000	-769.43	-1741
1	FID		ACIS-S-4	7.30	4430	1.000	0.837	0.222	0.010	0.017	0.000000	0.000000	2144.84	167
2	FID		ACIS-S-5	7.26	4430	1.000	-0.542	0.030	0.011	0.020	0.000000	0.000000	-1822.27	161
3	GUIDE	used	529531992	8.00	8858	1.000	-0.343	-0.555	0.149	0.228	29.402813	65.410087	1011.94	640
4	GUIDE	used	529544160	8.83	8852	1.000	-0.459	-0.259	0.127	0.202	28.550730	65.316265	2093.81	-119
5	GUIDE	used	530055280	8.28	8852	1.000	0.335	0.244	0.122	0.196	28.525480	66.176192	-260.98	-2124
6	GUIDE	used	530057720	9.02	8834	1.000	0.135	0.157	0.156	0.261	27.757531	65.925152	1146.20	-2420
7	GUIDE	used	530058768	8.85	8856	1.000	0.329	0.406	0.108	0.179	29.488497	66.456731	-1933.31	-1711

2.4 Star Slots

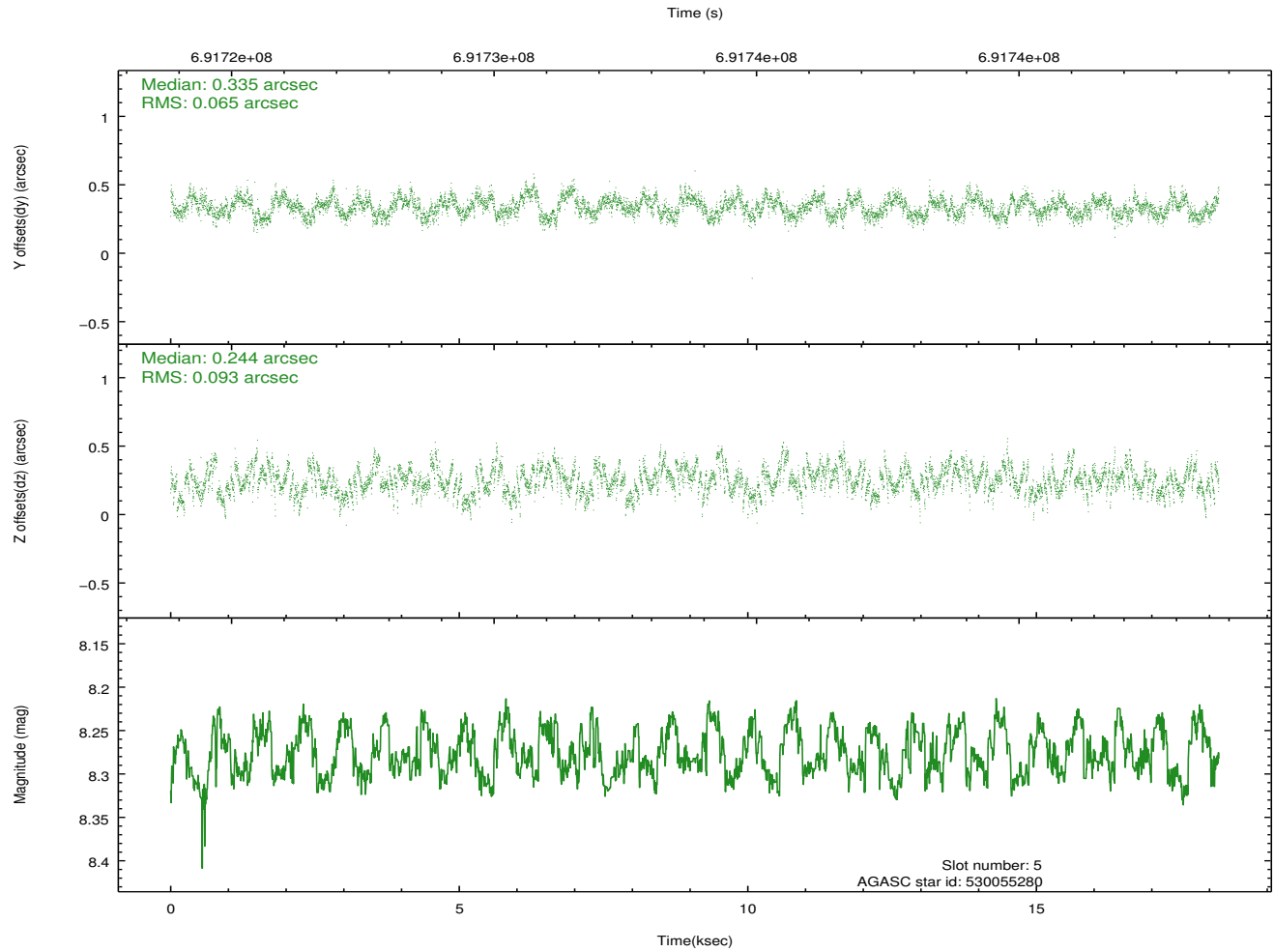
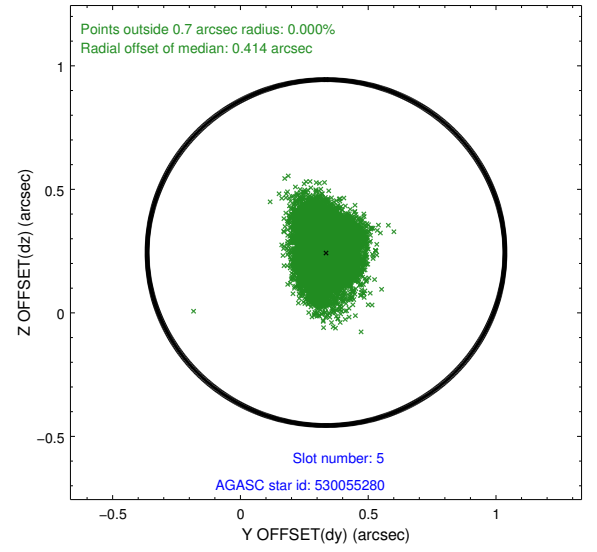
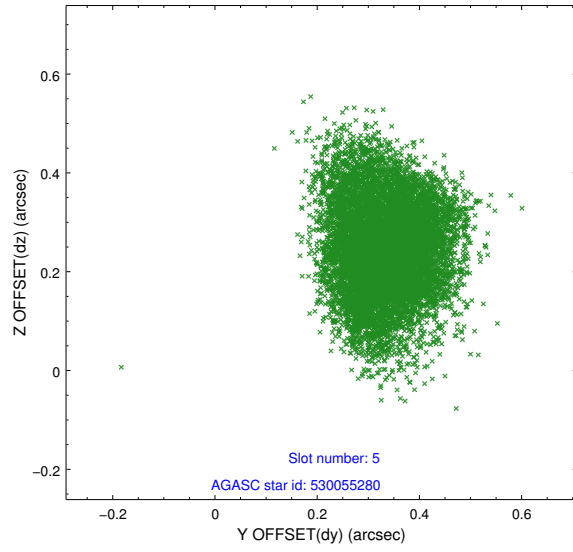
2.4.1 Slot 3



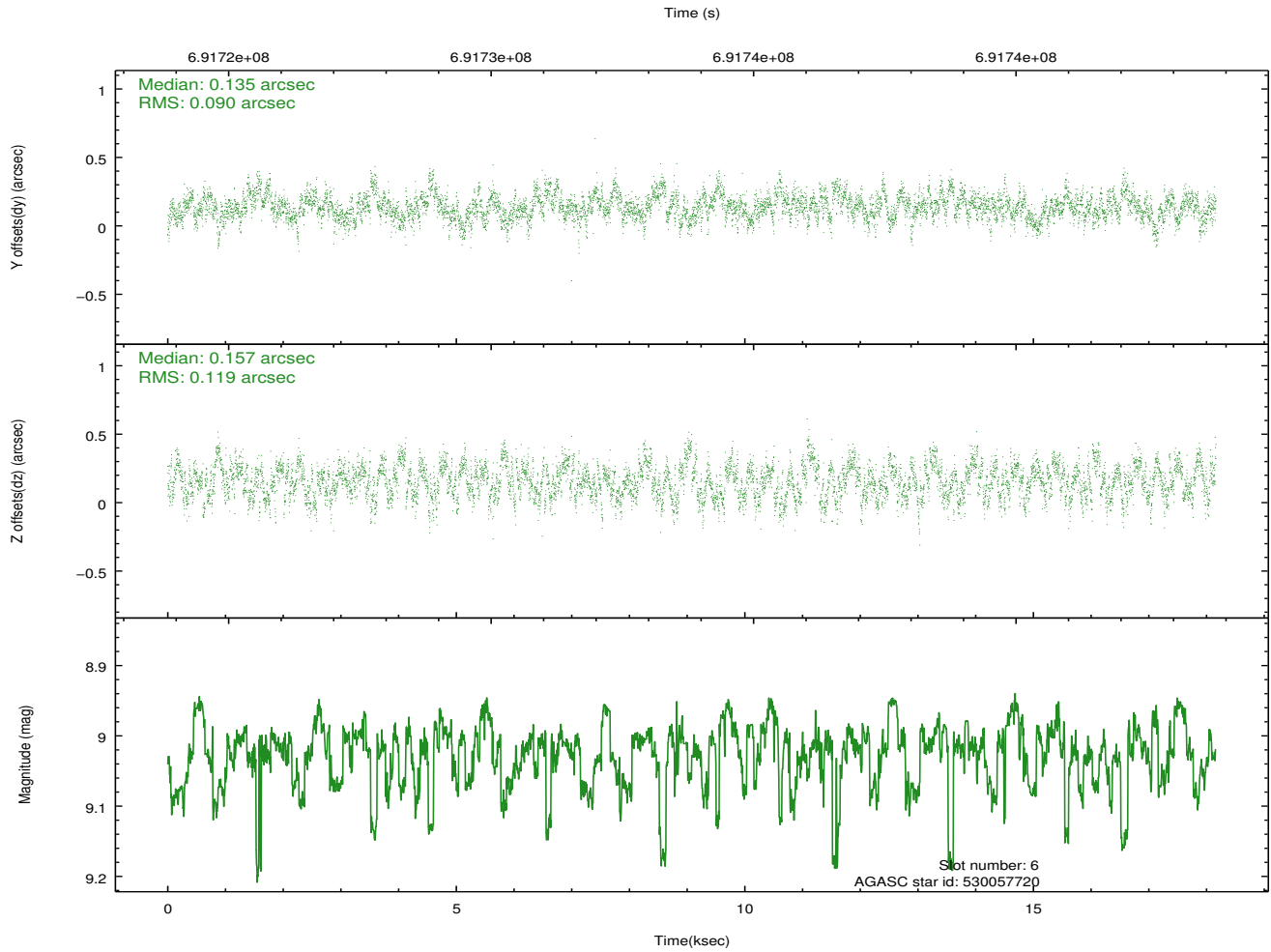
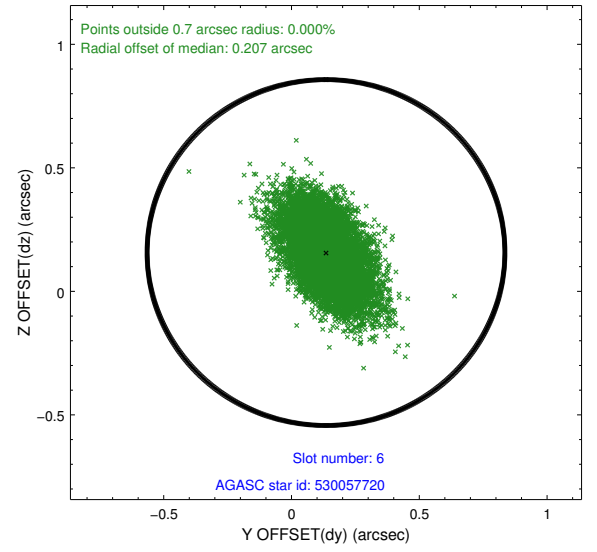
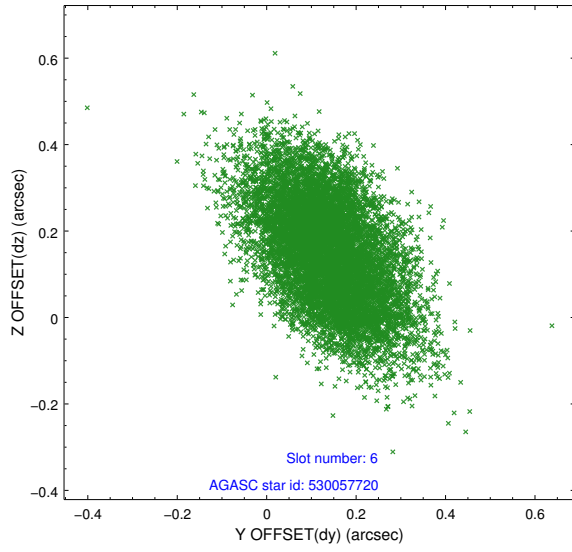
2.4.2 Slot 4



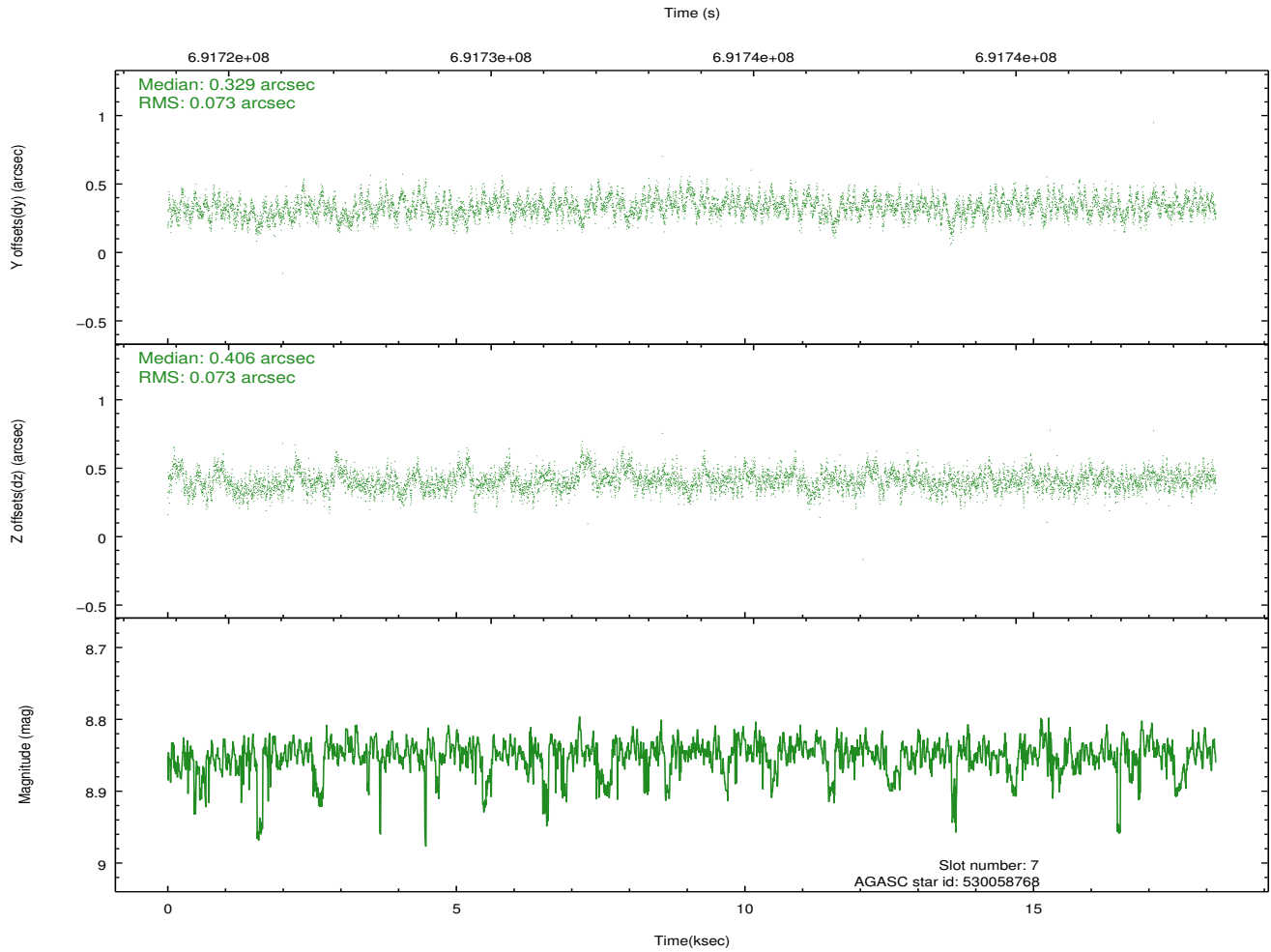
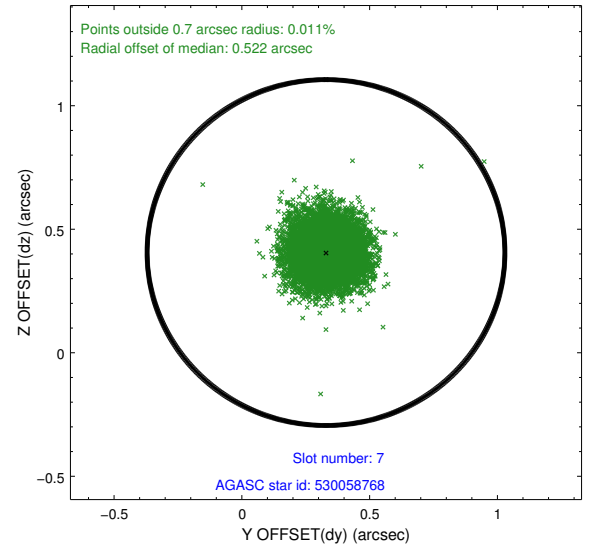
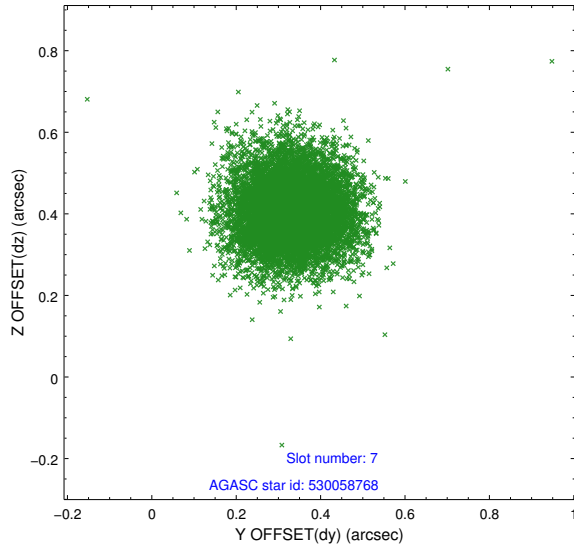
2.4.3 Slot 5



2.4.4 Slot 6

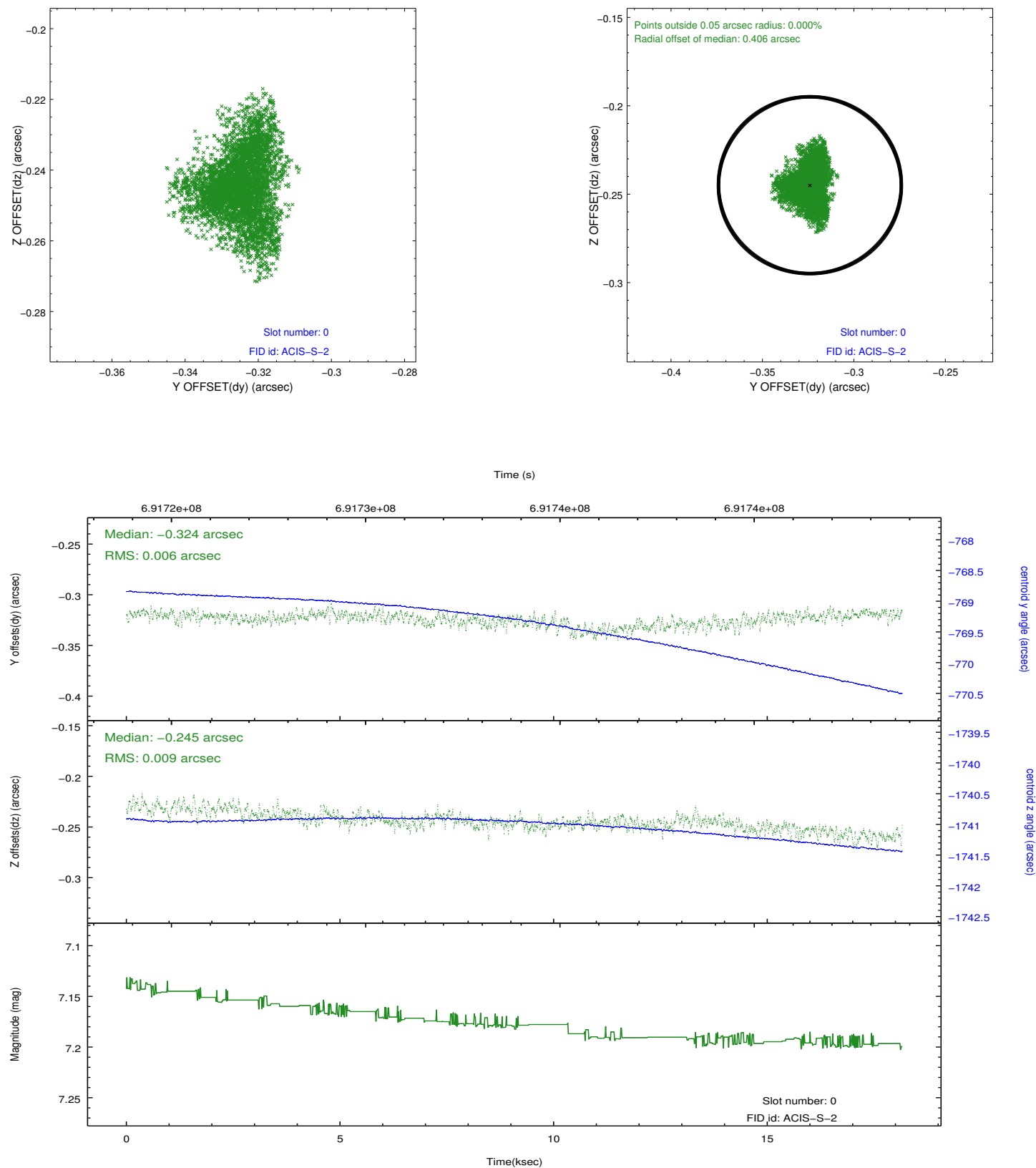


2.4.5 Slot 7

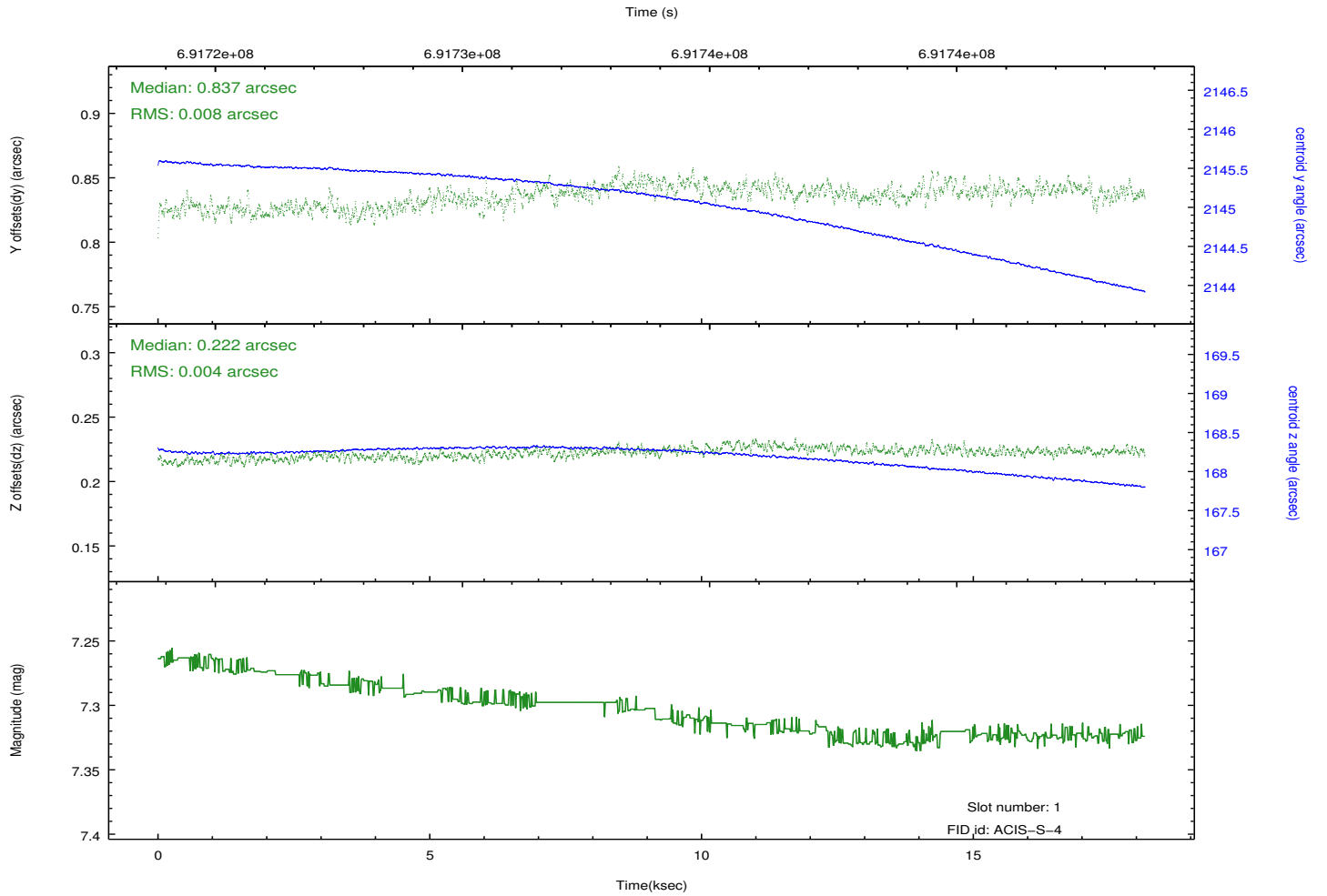
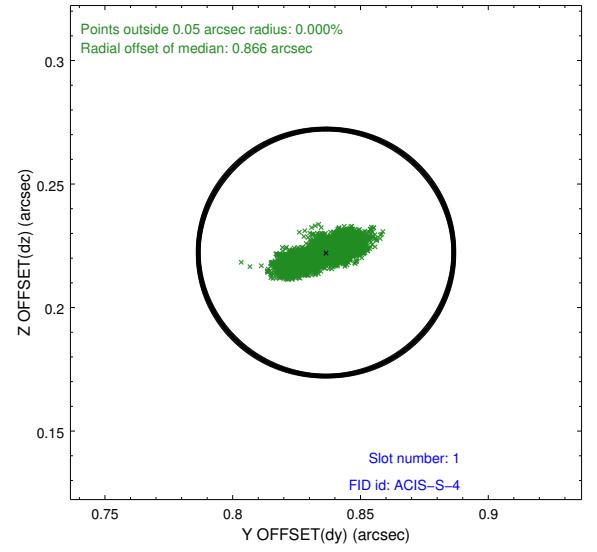
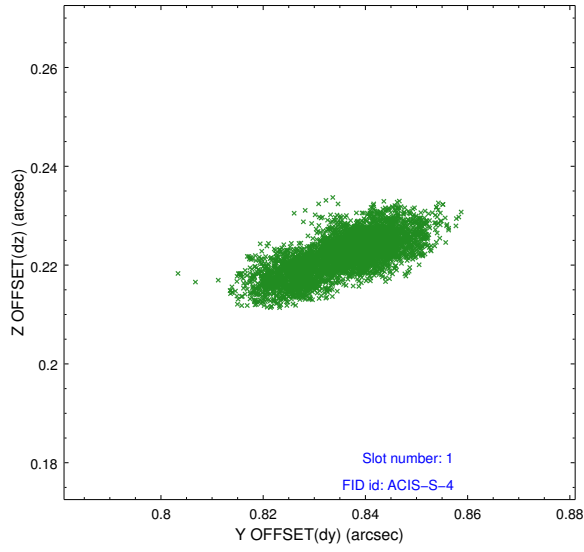


2.5 FID Slots

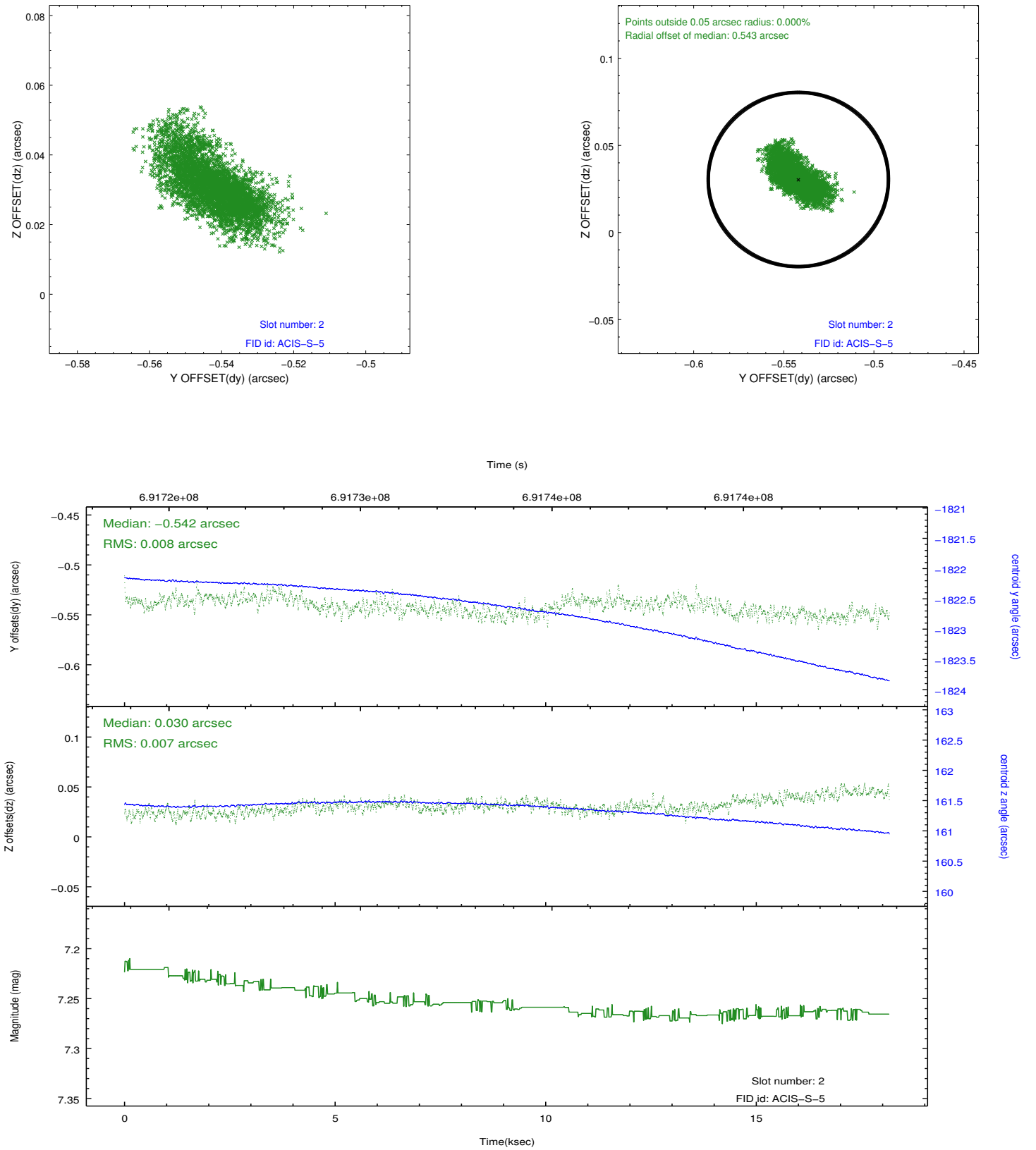
2.5.1 Slot 0



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	18.070653949261

A.2 Comments

Window constraint met.

Observation coordinated with Effelsberg Radio Telescope.