

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21527 - L2 Version 1
Chandra X-Ray Center

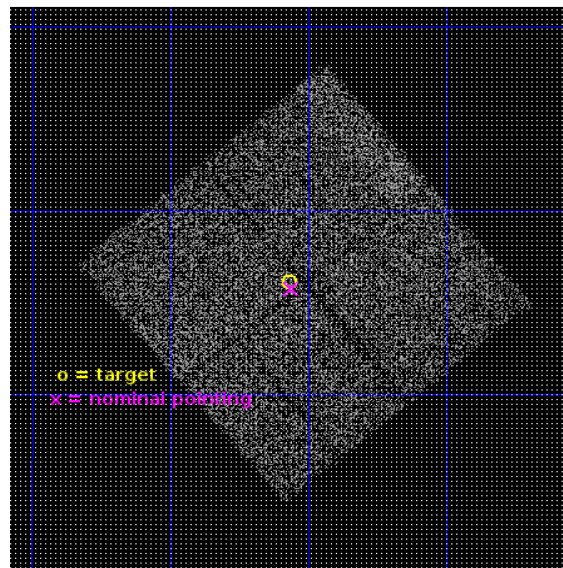
L2 Processing Date : Jun 22 2019

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

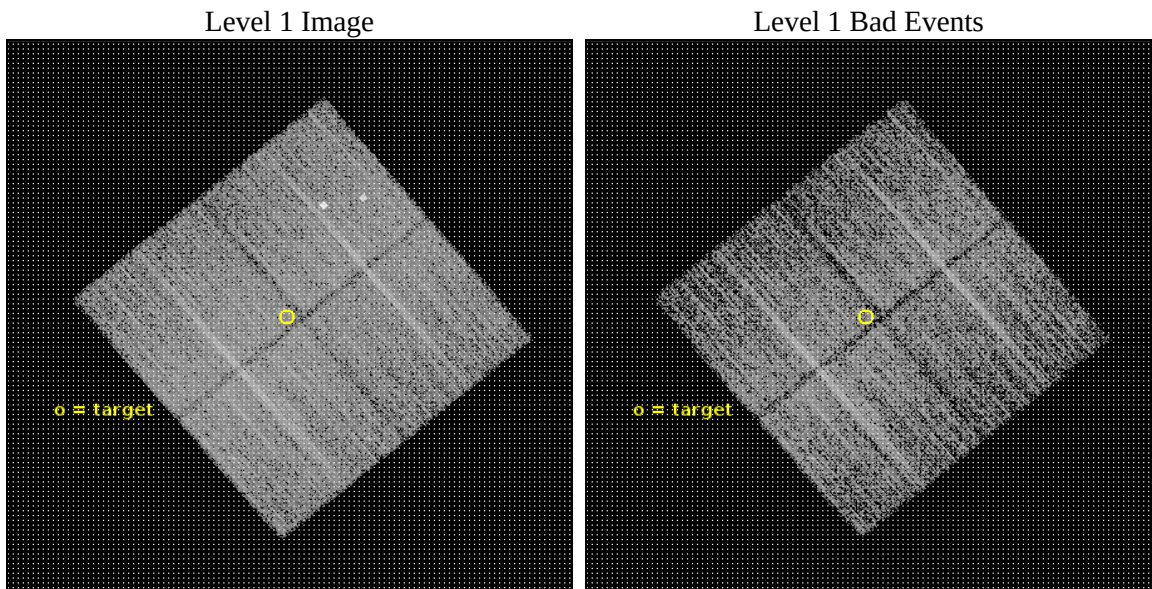
seq_num	703820	Sequence number
obs_id	21527	Observation id
title	Black Holes in Green Peas?	Proposal title
observer	Sangeeta Malhotra	Principal investigator
object	J121903.98+152608.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.766667	Observer's specified target RA [deg]
dec_targ	15.435694	Observer's specified target Dec [deg]
ra_nom	184.76539681974	Nominal RA [deg]
dec_nom	15.42910859588	Nominal Dec [deg]
roll_nom	230.20897711963	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9374.400072217	Sum of GTIs [s]
livetime	9251.9166339405	Livetime [s]
ontime0	9374.400072217	Sum of GTIs [s]
ontime1	9374.400072217	Sum of GTIs [s]
ontime2	9374.400072217	Sum of GTIs [s]
ontime3	9374.400072217	Sum of GTIs [s]
l2events	26982	Number of level 2 events



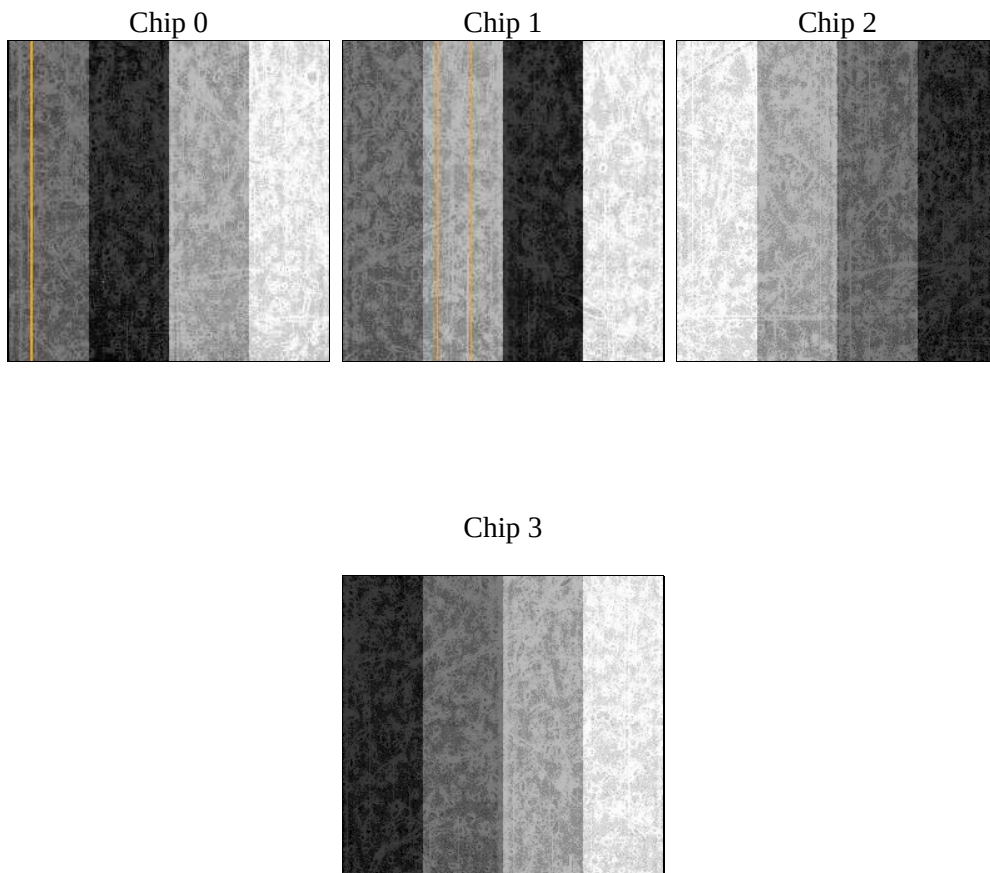
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9300.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	9374.400072217	Sum of GTIs [s]
caldsver	4.8.3	 	ontime0	9374.400072217	Sum of GTIs [s]
date	2019-06-22T15:28:07	Date and time of file creation	ontime1	9374.400072217	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	9374.400072217	Sum of GTIs [s]
			ontime3	9374.400072217	Sum of GTIs [s]
			l1events	292269	Number of level 1 events

2.1.4 Events

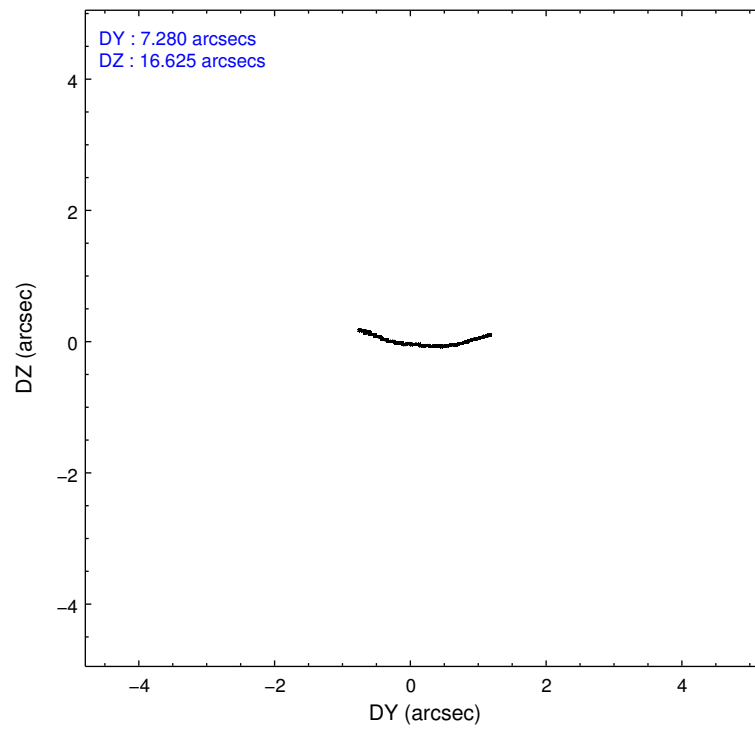
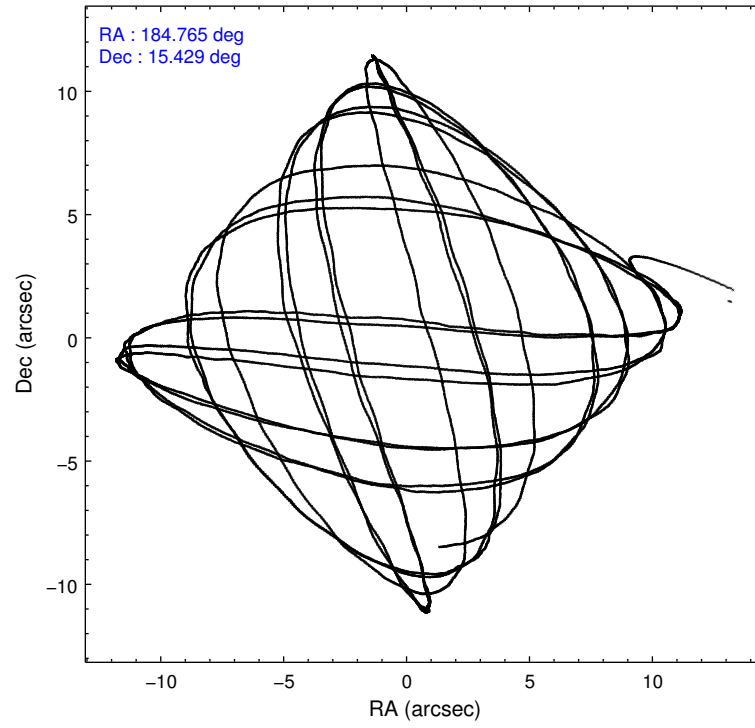
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	67746	74250	78068	72205
rejected events	59736	61580	70236	64667
rejected %	88%	82%	89%	89%

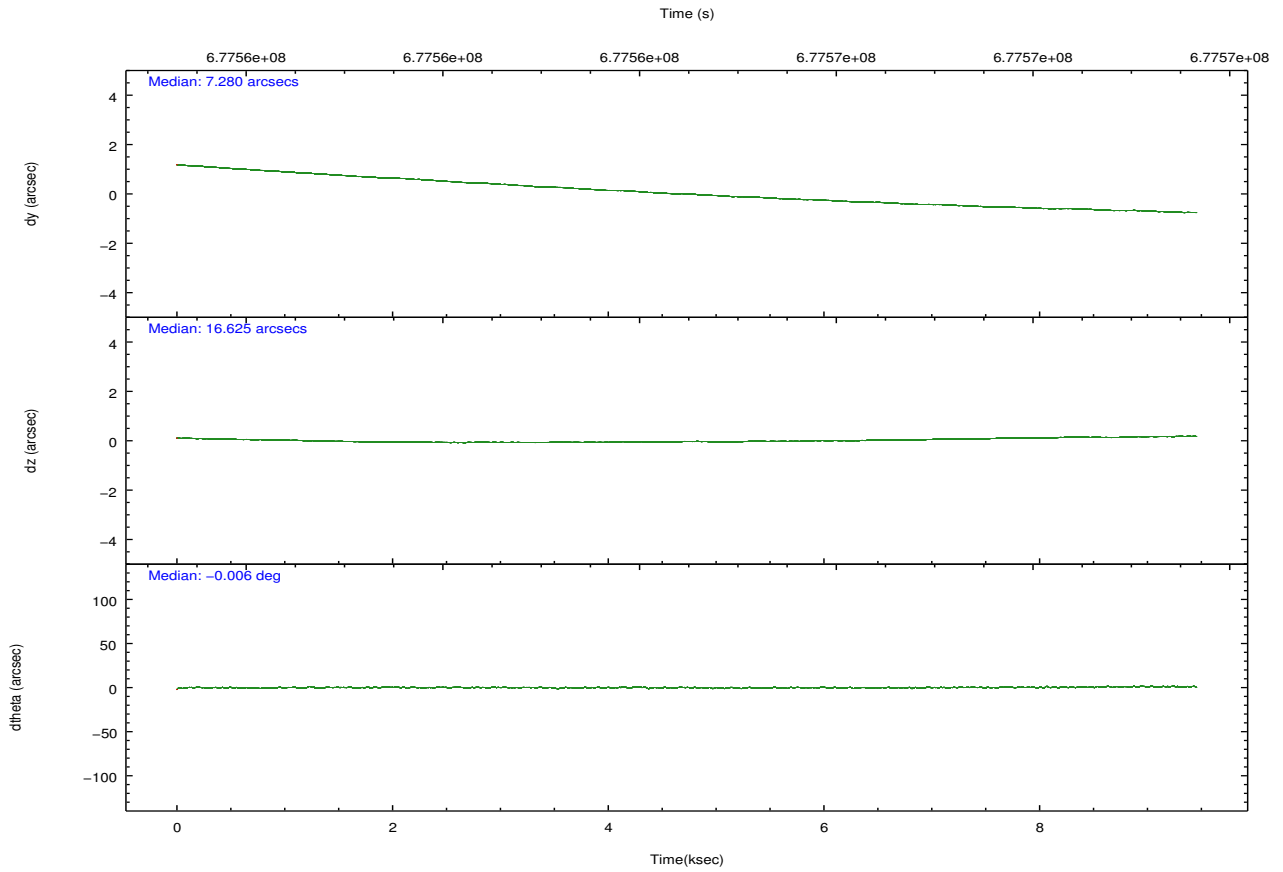
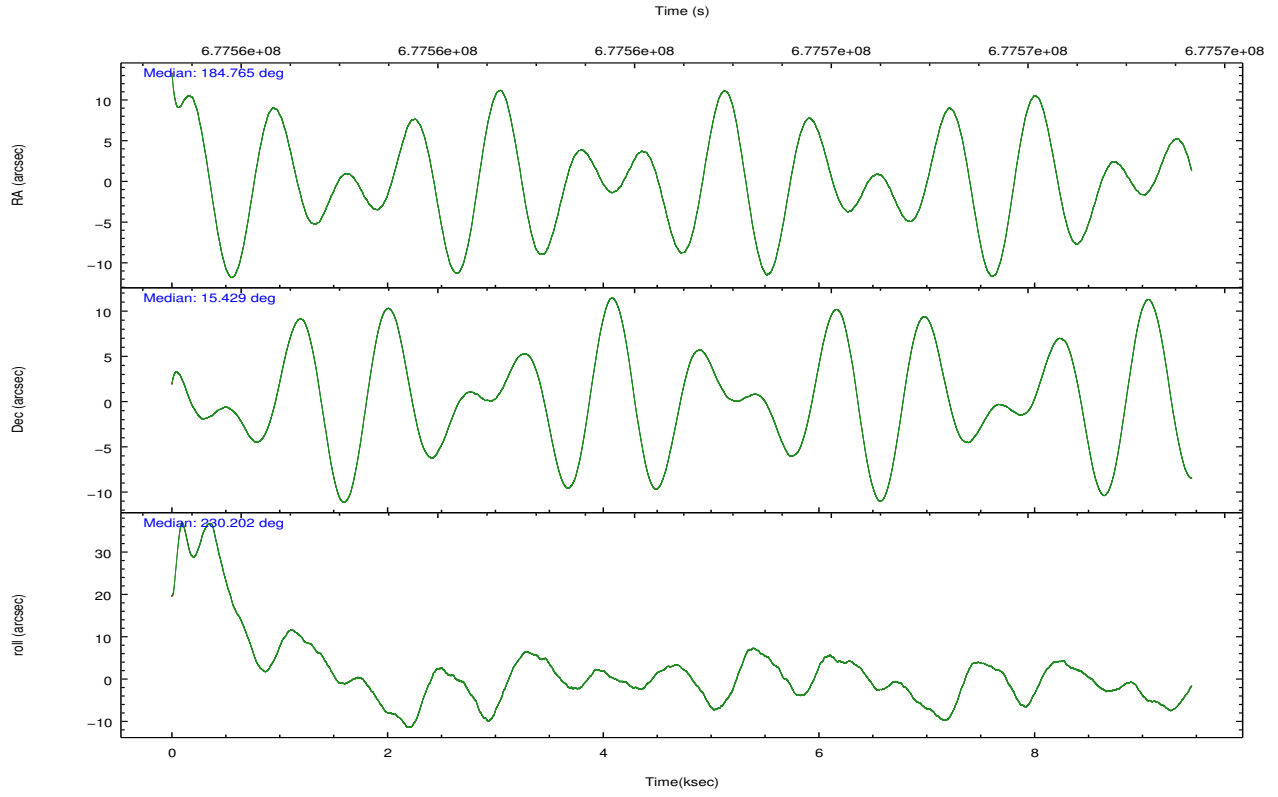
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	2700	6571	2793	2635
	3%	8%	3%	3%
grade 1 events	30	53	44	45
	0%	0%	0%	0%
grade 2 events	1961	2581	1830	1730
	2%	3%	2%	2%
grade 3 events	792	716	791	745
	1%	0%	1%	1%
grade 4 events	786	699	774	781
	1%	0%	0%	1%
grade 5 events	2885	3007	2857	3271
	4%	4%	3%	4%
grade 6 events	1777	2114	1646	1654
	2%	2%	2%	2%
grade 7 events	56815	58509	67333	61344
	83%	78%	86%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	184.770088	184.7653968197416	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.456327	15.4291085958798	Alternating exposures requested	N	N
[deg] Pointing Roll	229.999088	230.2089771196299	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	677559898.184000	677558619.36444			
Observation start date	2019-06-22T03:03:49	2019-06-22T02:43:39			
[s] Observation end time (MET)	677569198.184000	677569957.91512			
Observation end date	2019-06-22T05:38:49	2019-06-22T05:52:37			
Read mode	TIMED	TIMED			

2.3 Aspect



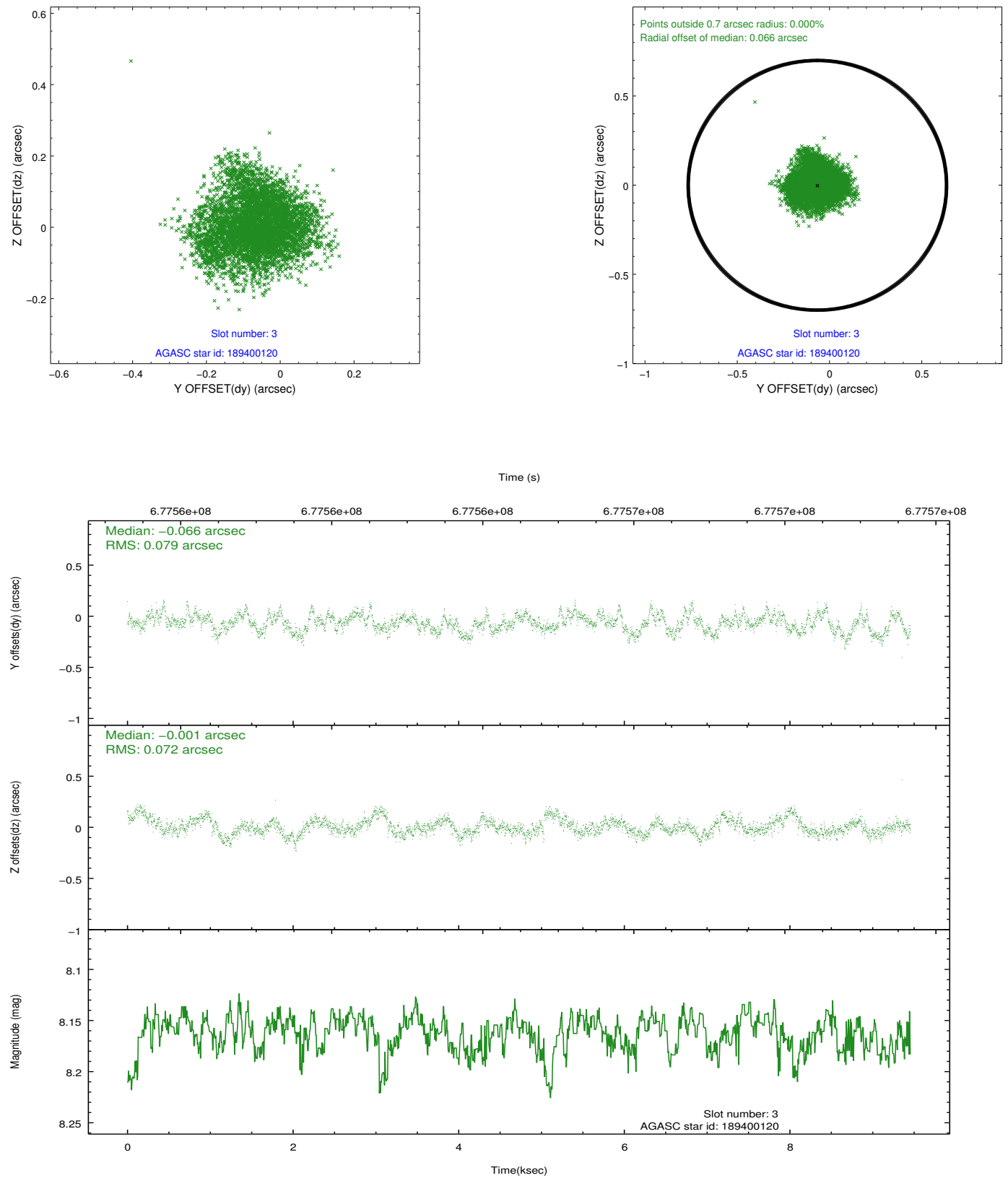


Slot Statistics

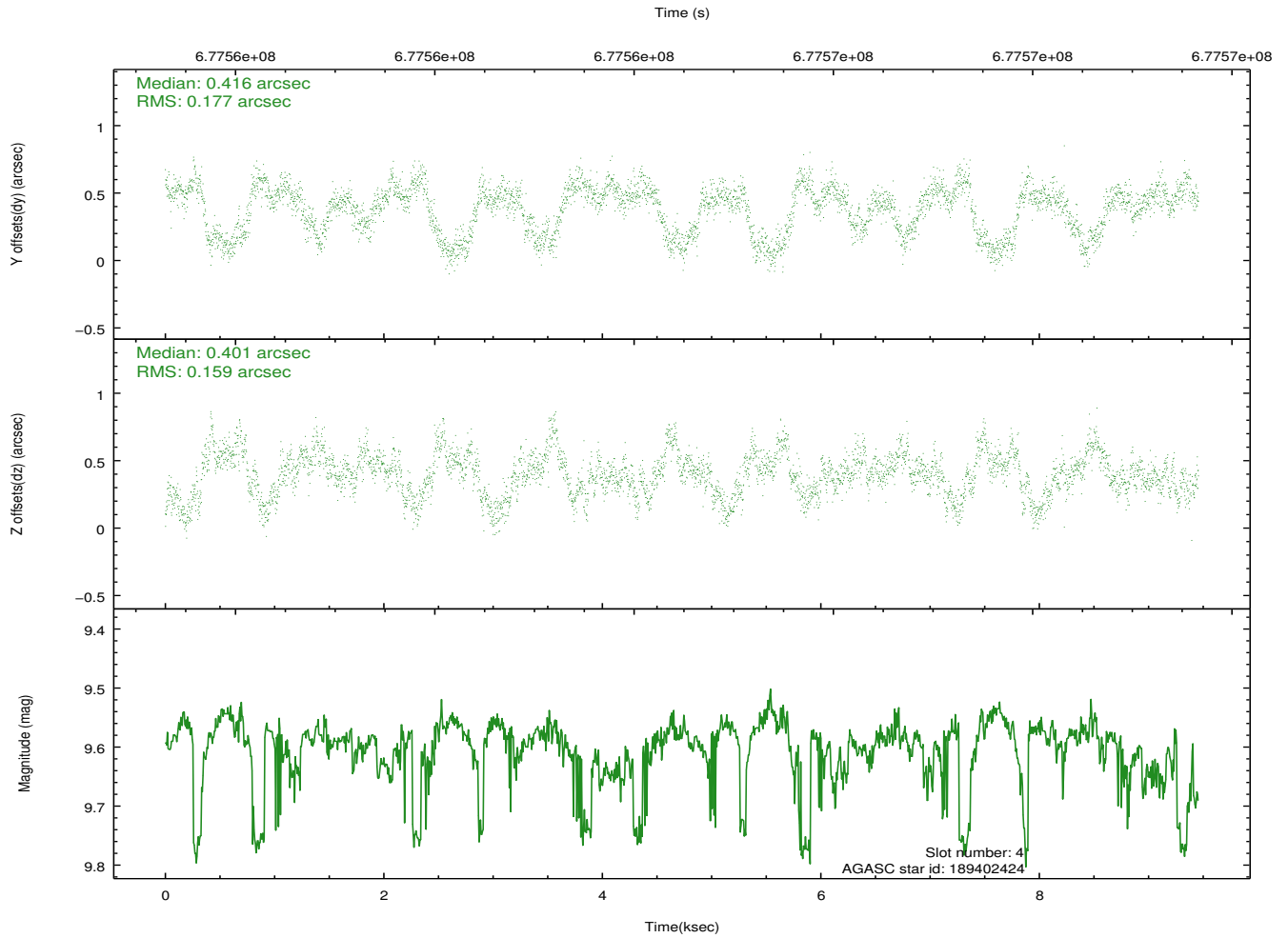
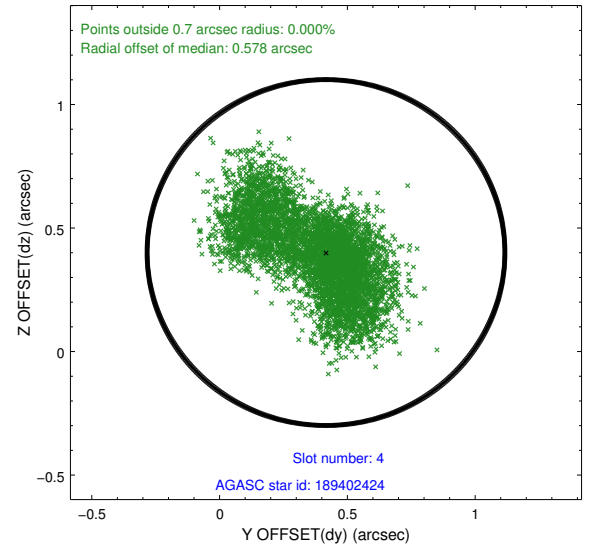
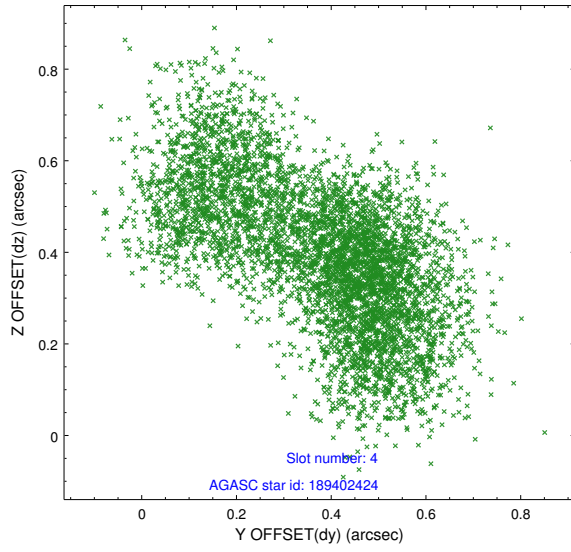
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	2307	1.000	0.137	-0.170	0.015	0.024	0.000000	0.000000	932.51	-840
1	FID		ACIS-I-5	7.21	2307	1.000	-0.470	0.043	0.012	0.018	0.000000	0.000000	-1816.01	1056
2	FID		ACIS-I-6	7.20	2306	1.000	0.242	0.200	0.022	0.036	0.000000	0.000000	397.38	1702
3	GUIDE	used	189400120	8.16	4609	1.000	-0.066	-0.001	0.117	0.176	185.025387	15.714800	-1279.80	78
4	GUIDE	used	189402424	9.59	4601	1.000	0.416	0.401	0.262	0.409	184.730884	15.884912	-1093.85	-1095
5	GUIDE	used	189403680	8.81	4606	1.000	-0.118	-0.023	0.164	0.262	185.171503	15.144043	-36.71	1790
6	GUIDE	used	189416408	8.46	4612	1.000	0.118	-0.287	0.098	0.161	184.461757	15.019223	1896.00	188
7	GUIDE	used	189419528	6.34	4613	1.000	-0.309	-0.081	0.105	0.194	185.202988	15.540976	-1198.77	952

2.4 Star Slots

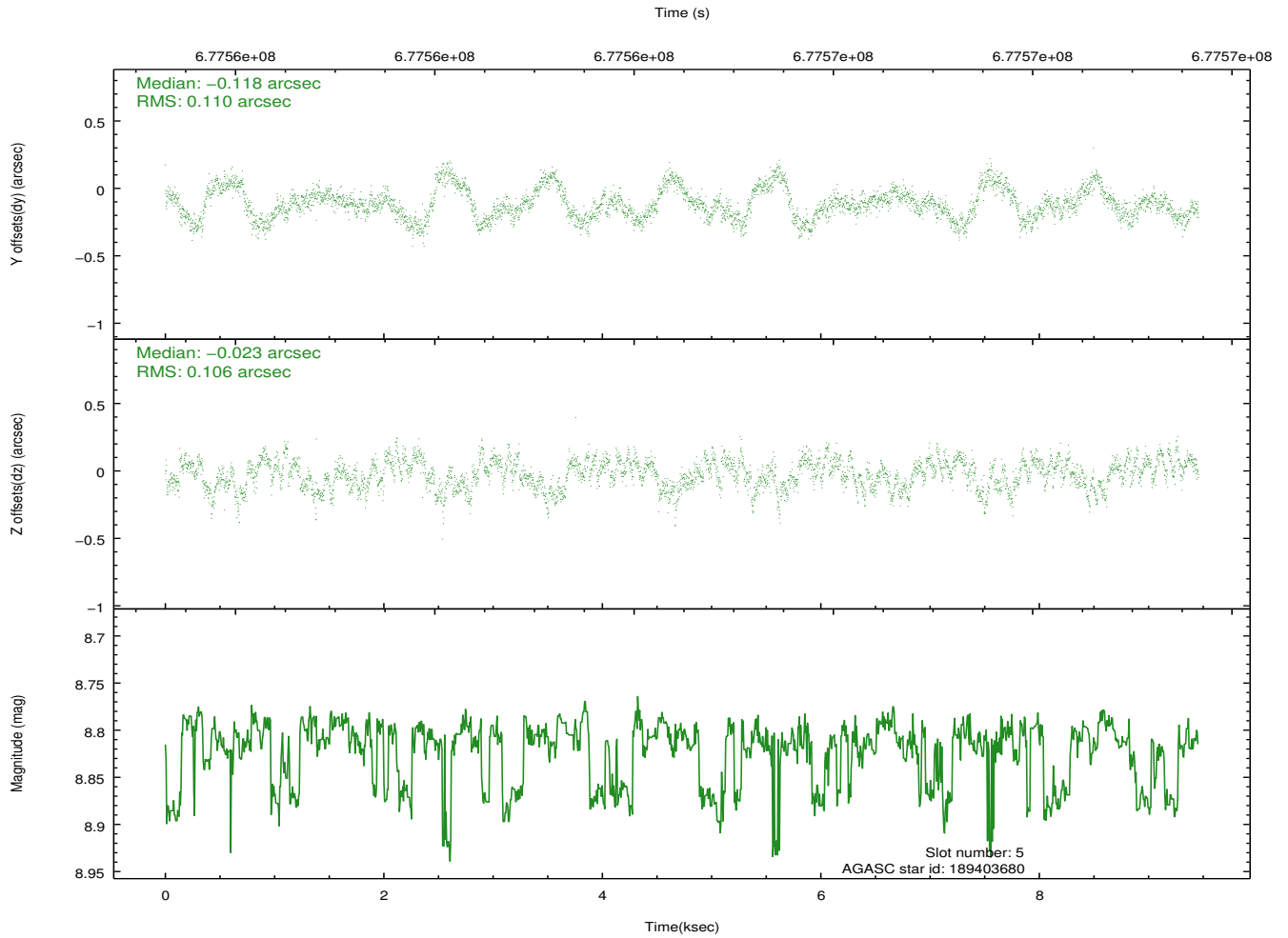
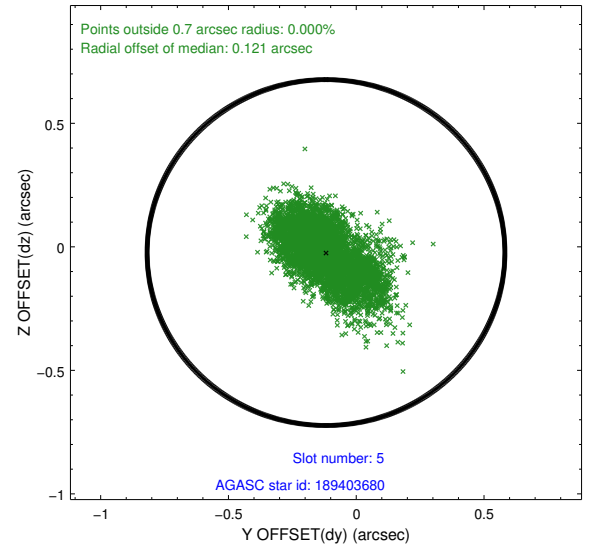
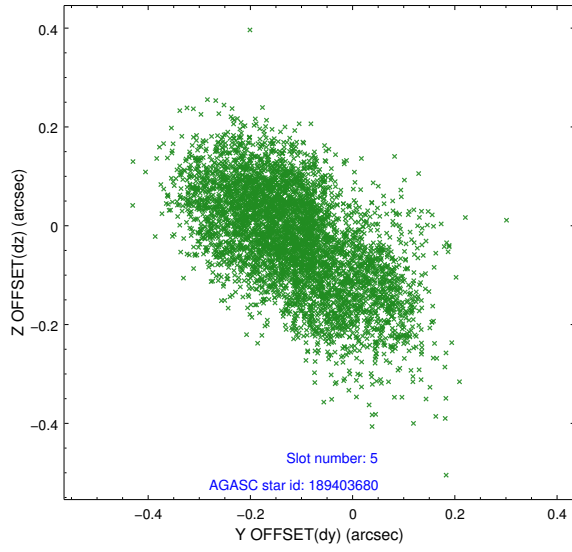
2.4.1 Slot 3



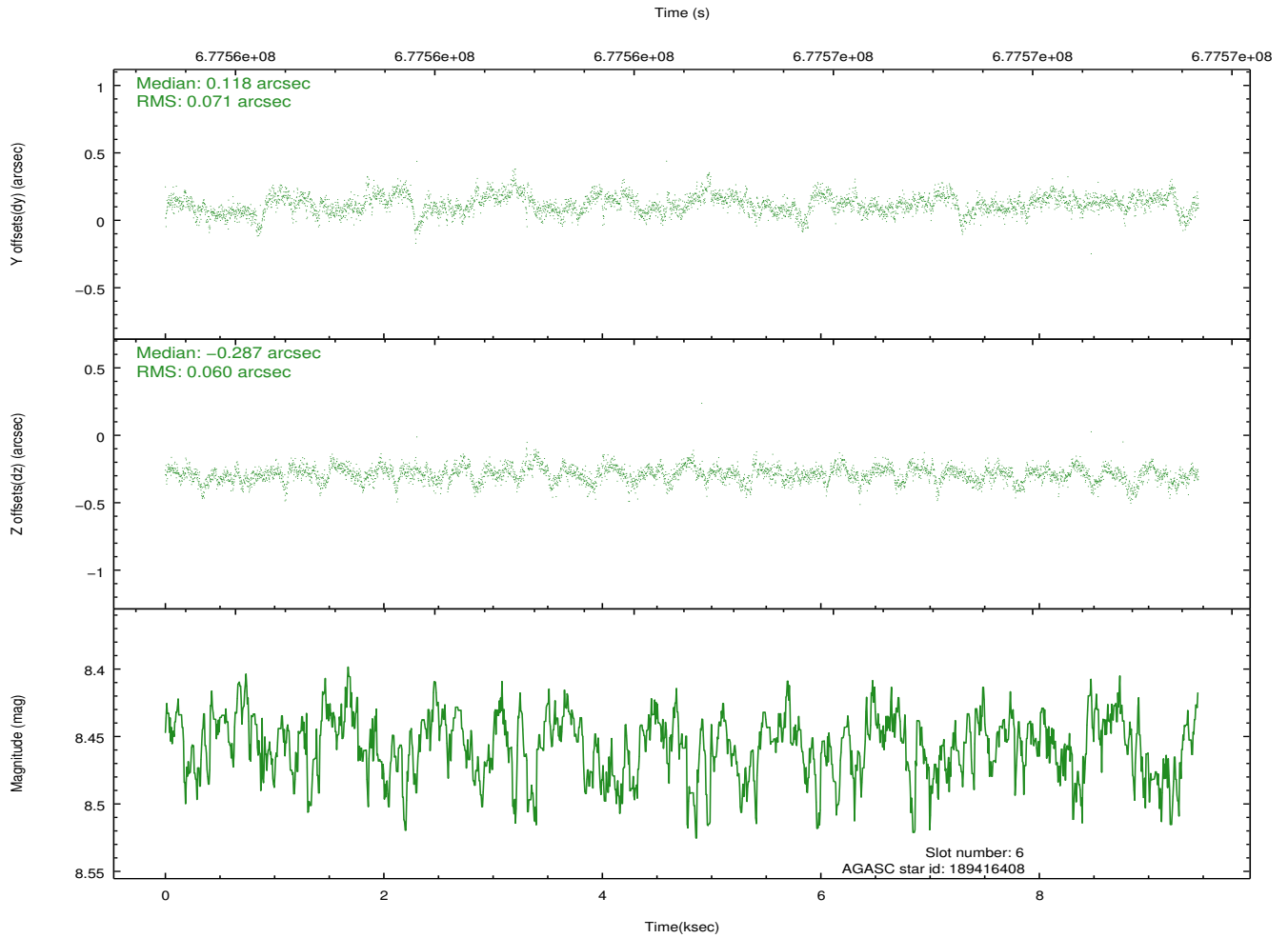
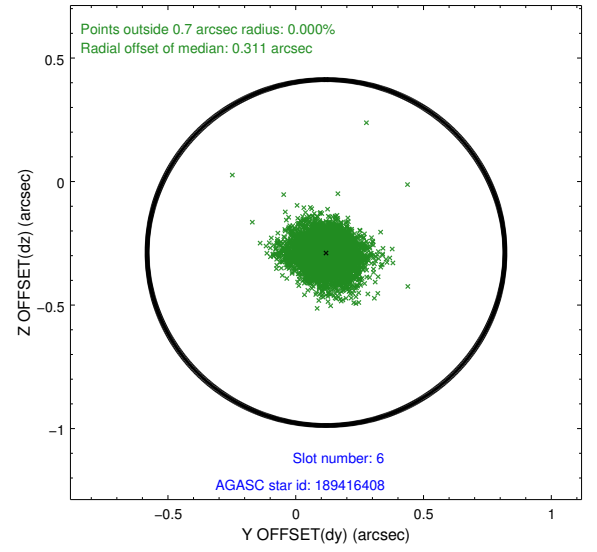
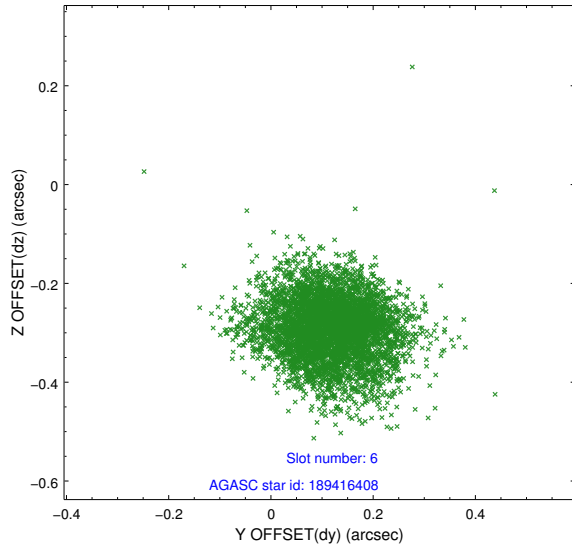
2.4.2 Slot 4



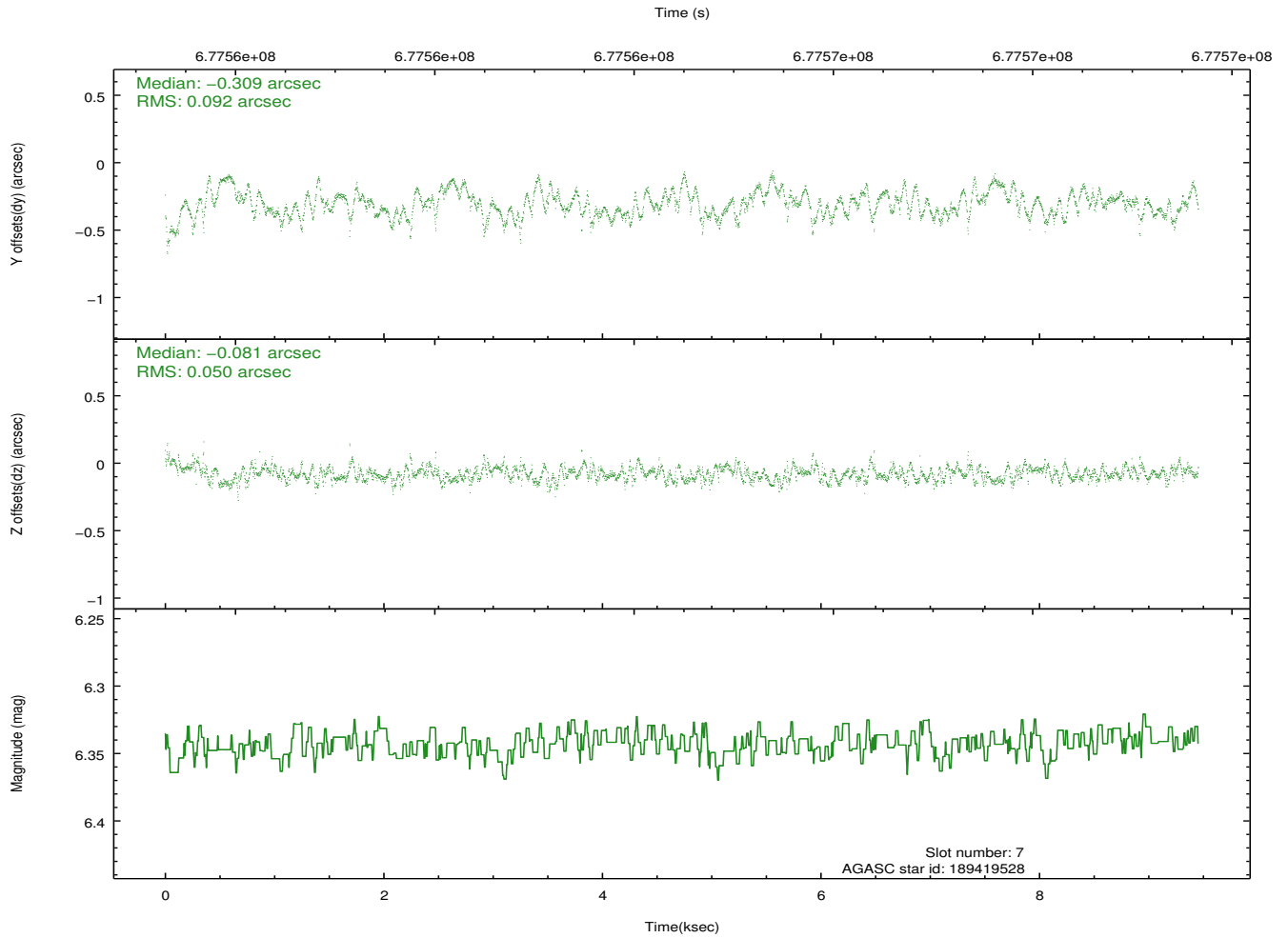
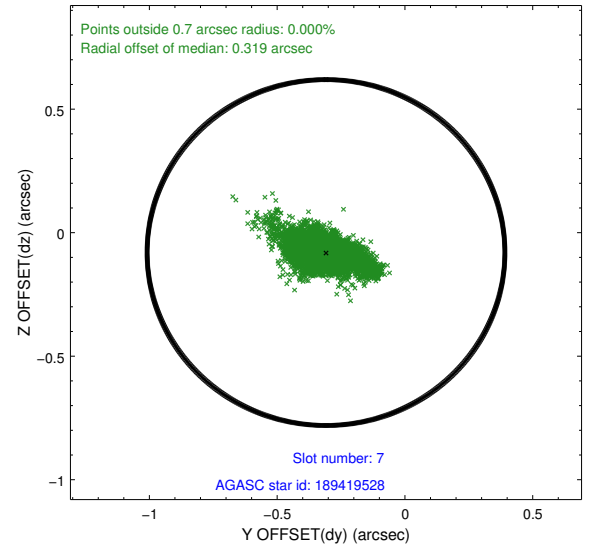
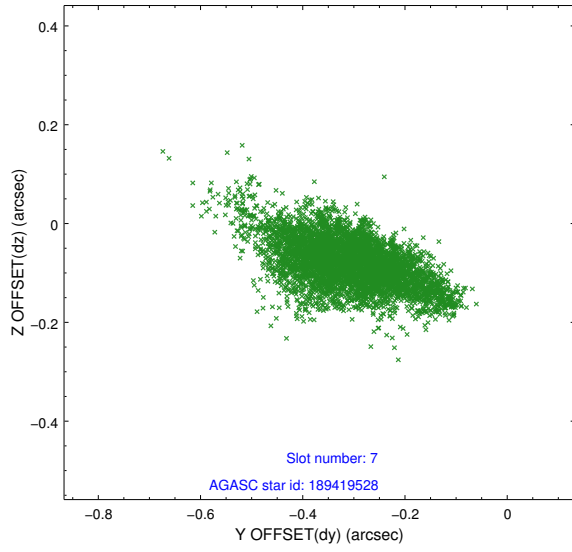
2.4.3 Slot 5



2.4.4 Slot 6

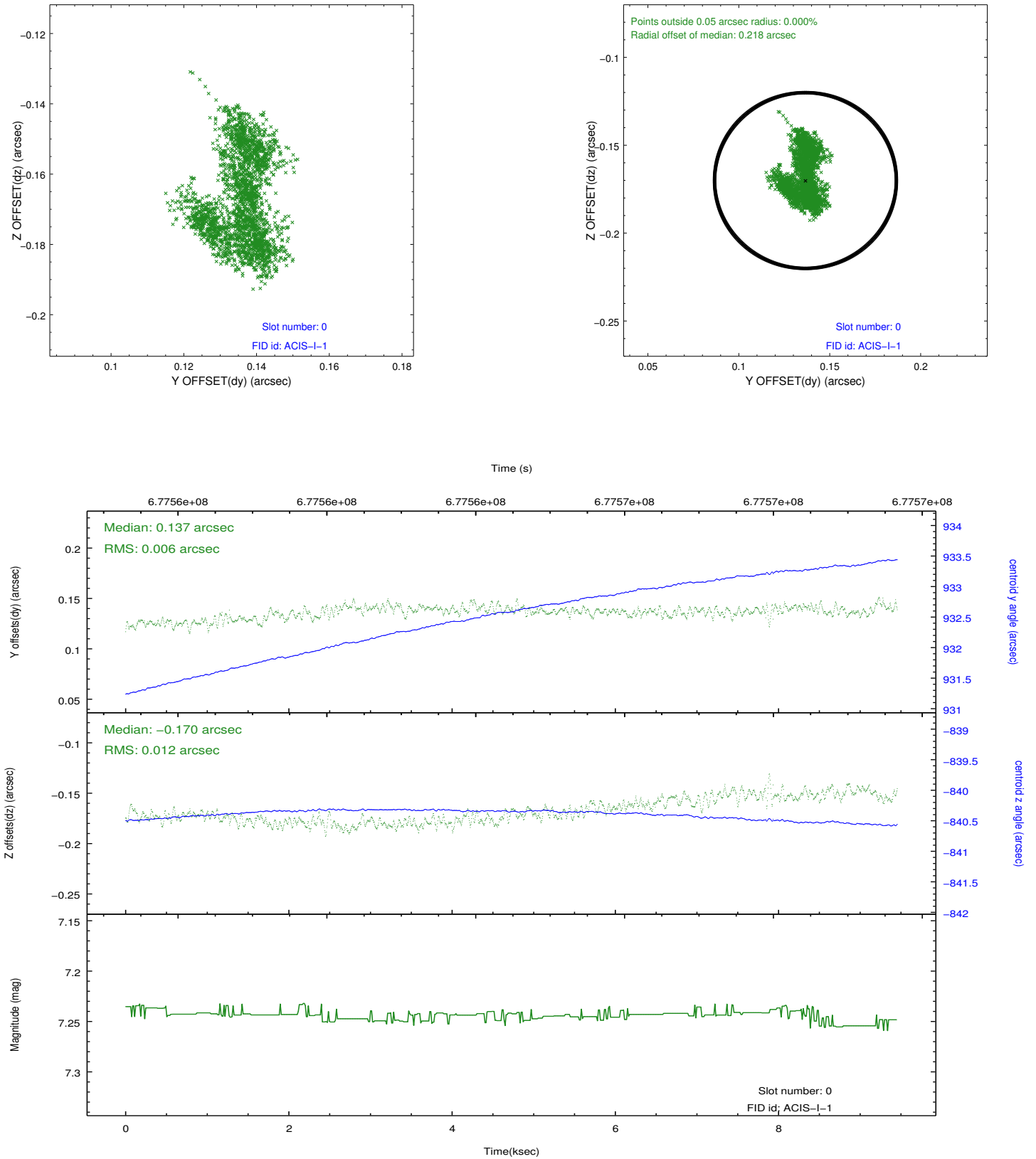


2.4.5 Slot 7

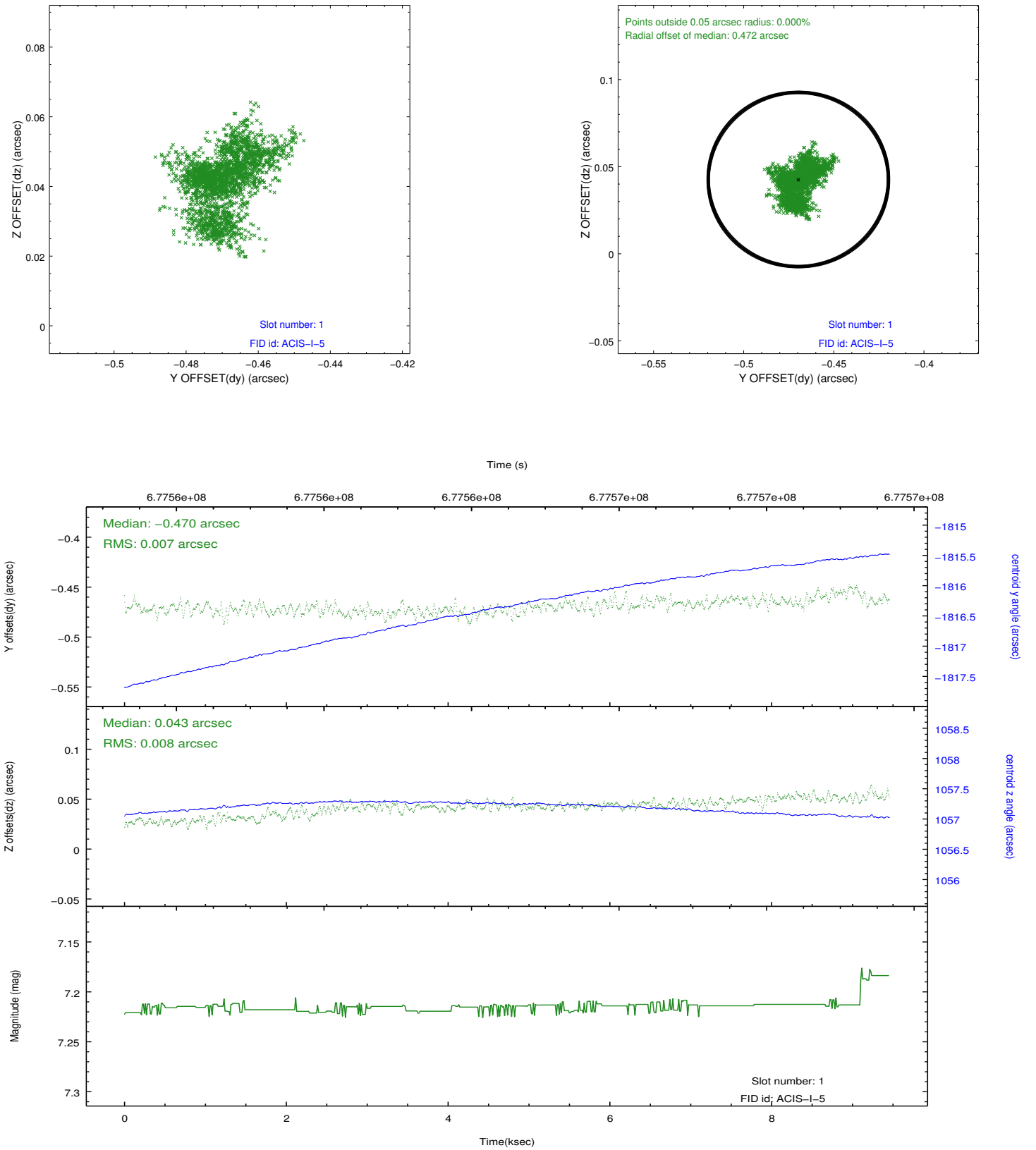


2.5 FID Slots

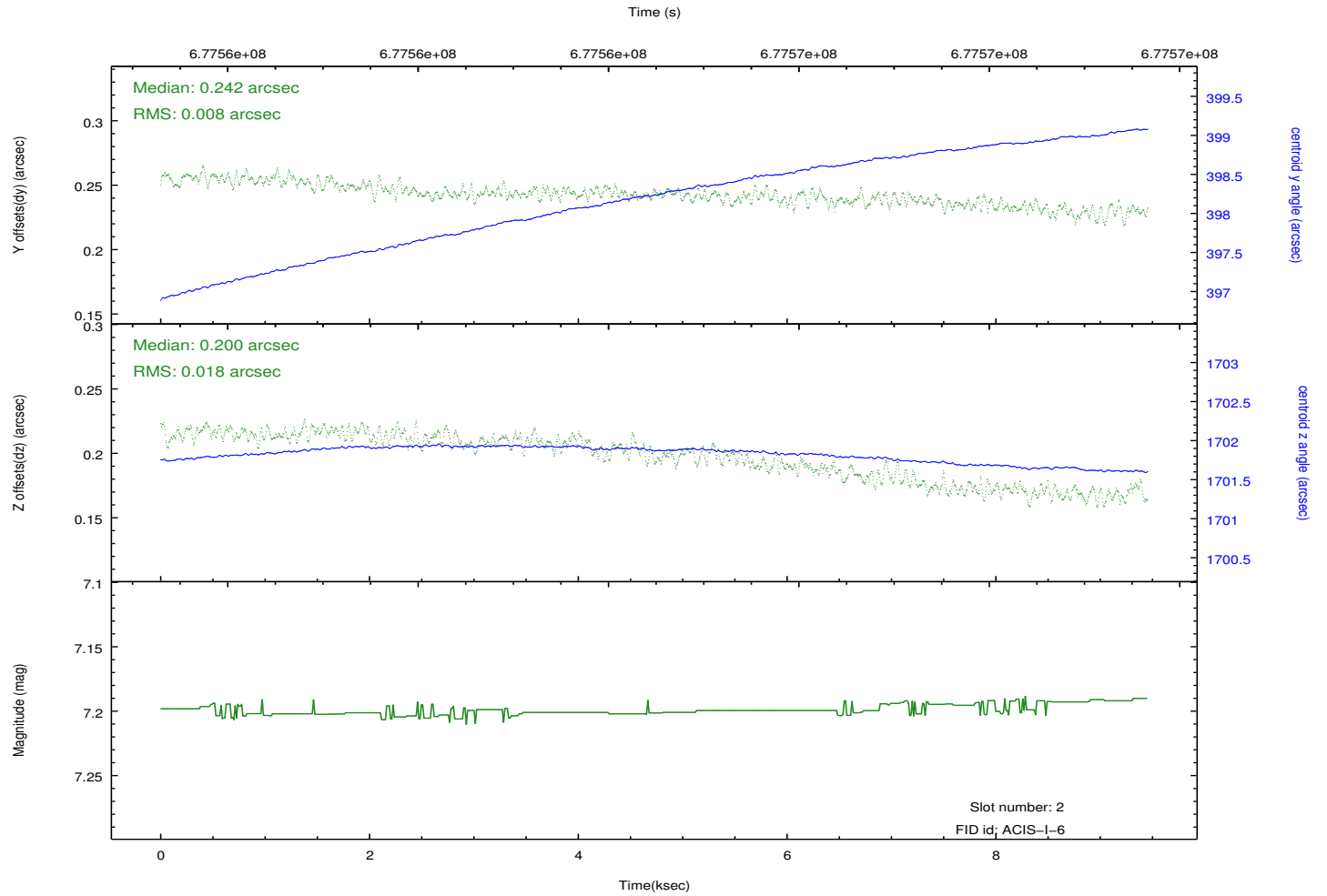
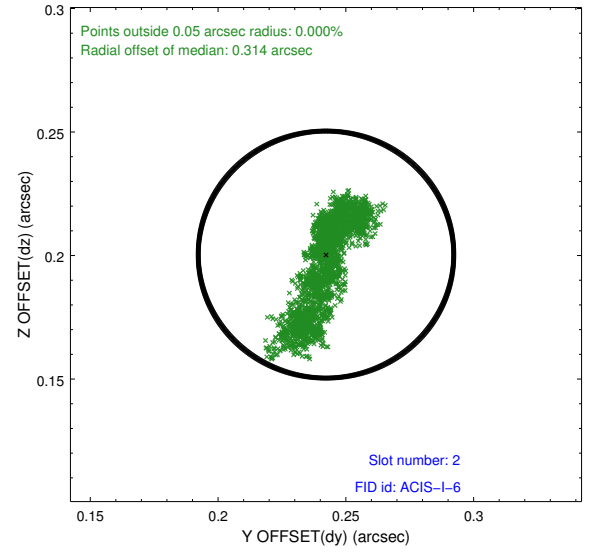
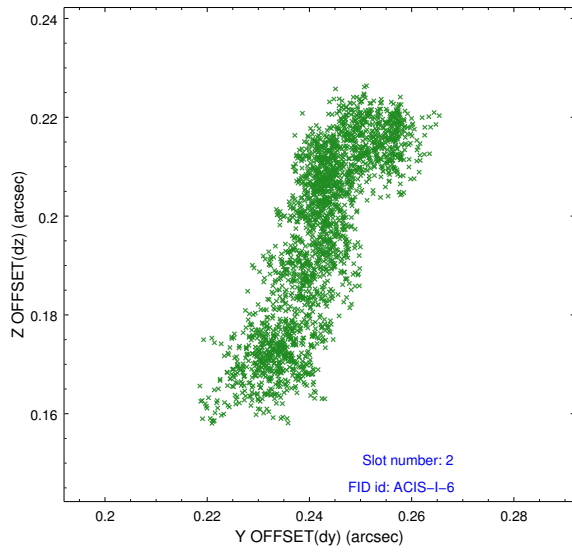
2.5.1 Slot 0



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)	2019.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.374400072217

A.2 Comments

Joint proposal with HST.