

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 17538 - L2 Version 1
Chandra X-Ray Center

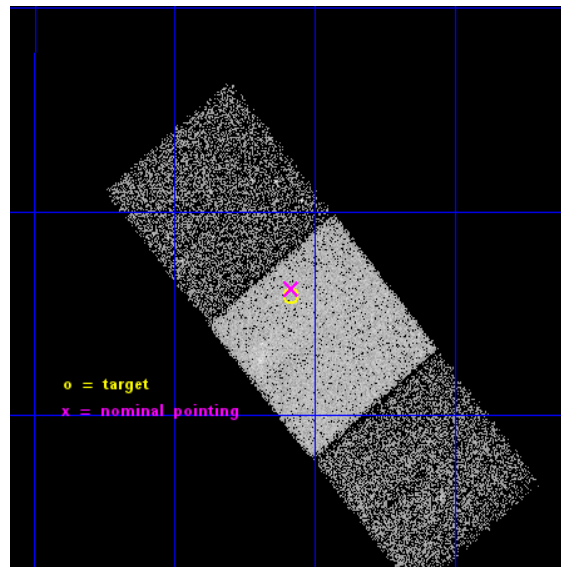
L2 Processing Date : Dec 26 2014

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1 Front

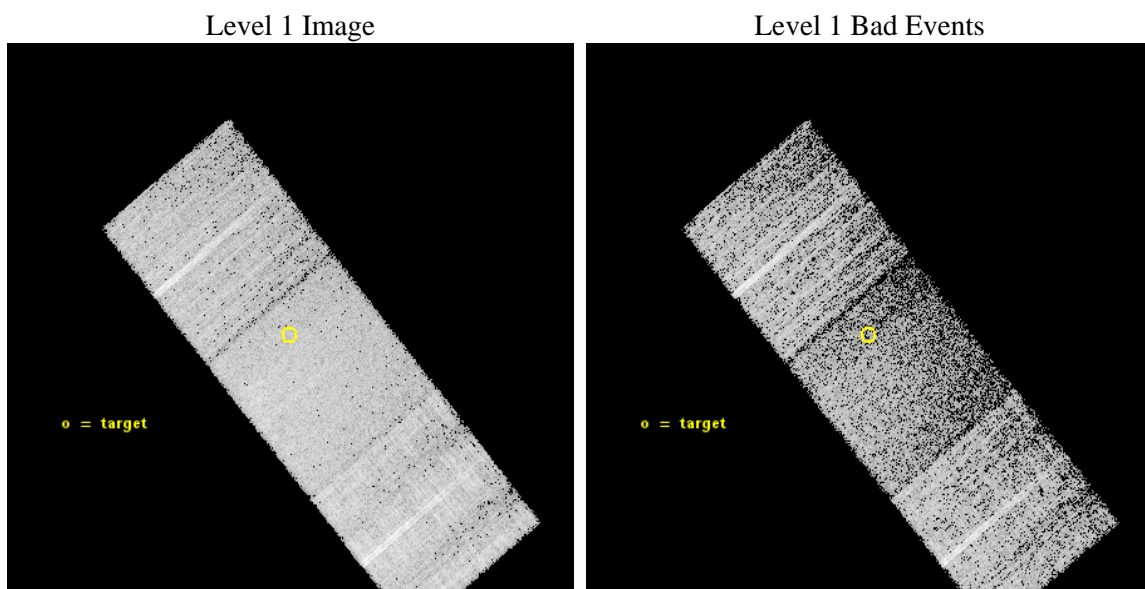
seq_num	703150	Sequence number
obs_id	17538	Observation id
title	A candidate 30,000 solar mass black hole	Proposal title
observer	Elena Gallo	Principal investigator
object	SDSS J152304.97+114553.6	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	230.770833	Observer's specified target RA [deg]
dec_targ	11.764889	Observer's specified target Dec [deg]
ra_nom	230.77087153216	Nominal RA [deg]
dec_nom	11.770345085067	Nominal Dec [deg]
roll_nom	50.575828803129	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20078.069021702	Sum of GTIs [s]
liveltime	19815.734268674	Livetime [s]
ontime6	20074.887021303	Sum of GTIs [s]
ontime7	20078.069021702	Sum of GTIs [s]
ontime8	20074.8459813	Sum of GTIs [s]
l2events	67295	Number of level 2 events



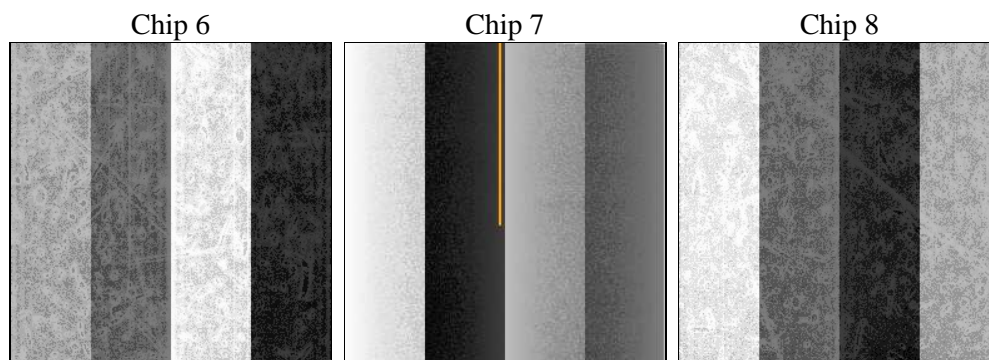
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	20078.069021702	Sum of GTIs [s]
caldsver	4.6.5	 	ontime6	20074.887021303	Sum of GTIs [s]
date	2014-12-26T18:09:49	Date and time of file creation	ontime7	20078.069021702	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	20074.8459813	Sum of GTIs [s]
			l1events	297446	Number of level 1 events

2.1.4 Events

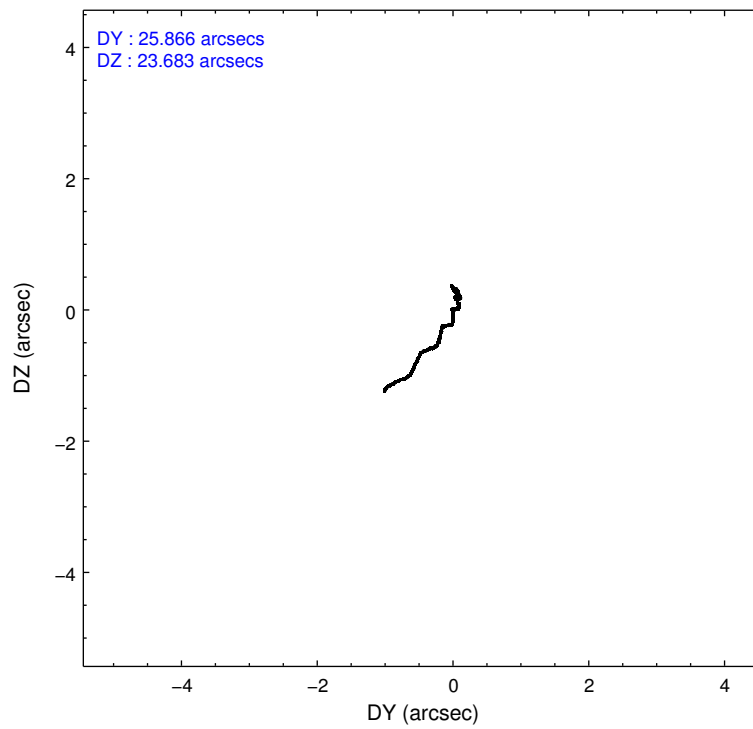
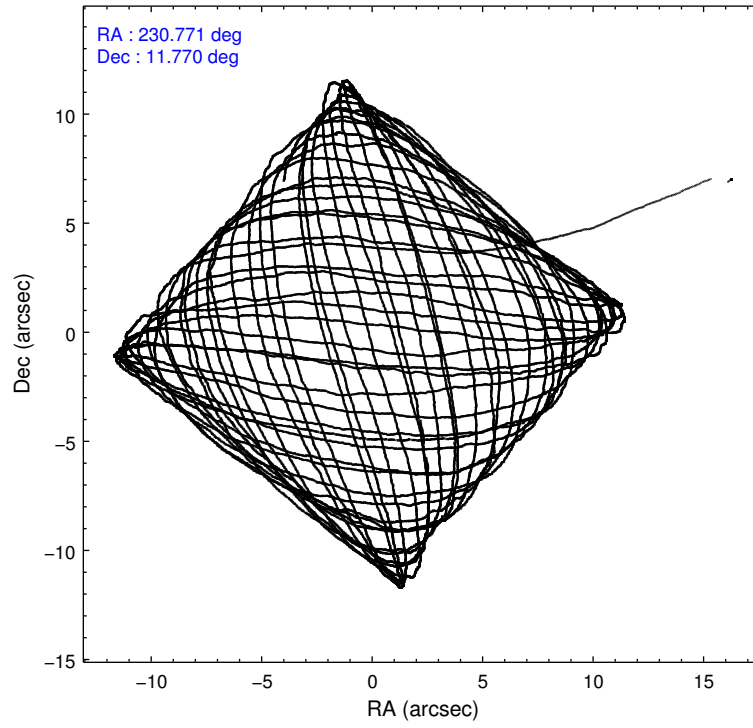
	ccd 6	ccd 7	ccd 8
level 1 events	84868	99333	113245
rejected events	73879	50776	78698
rejected %	87%	51%	69%

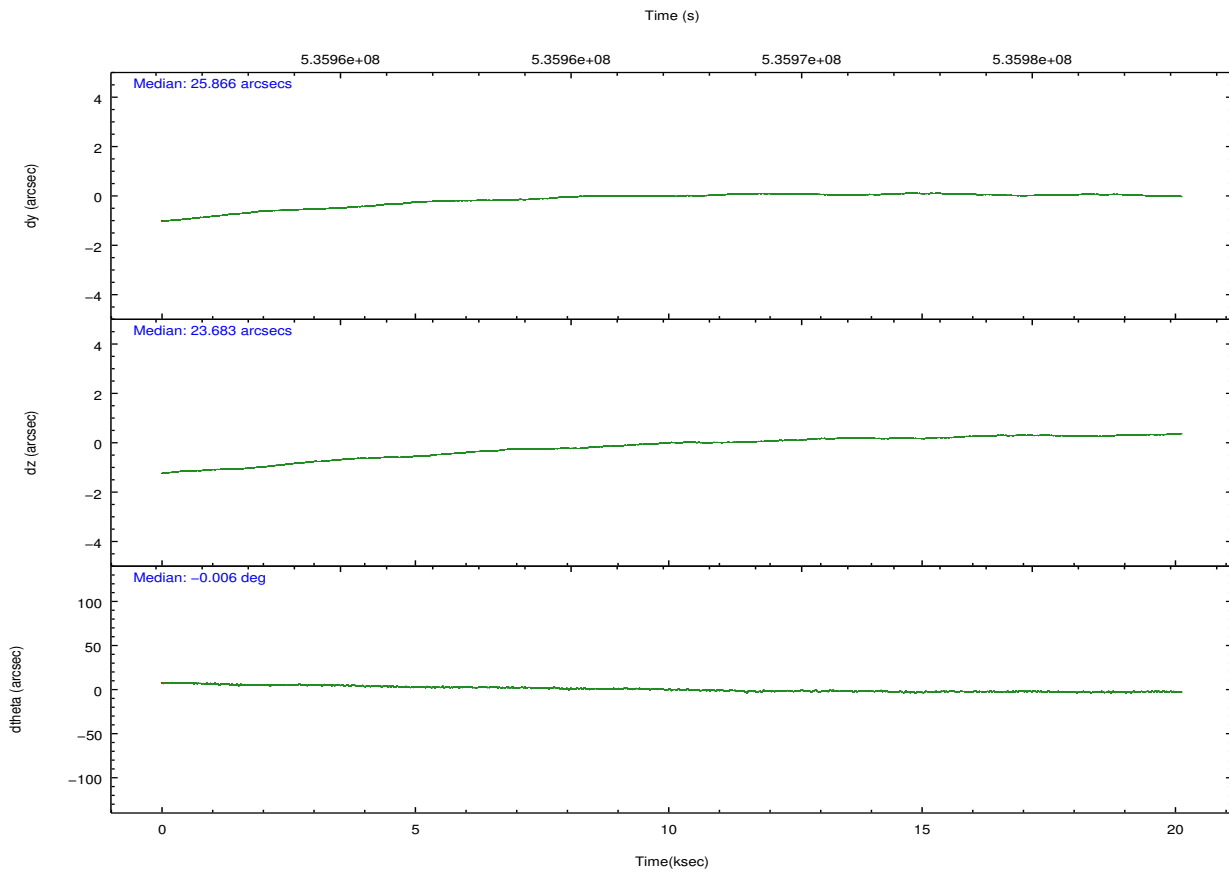
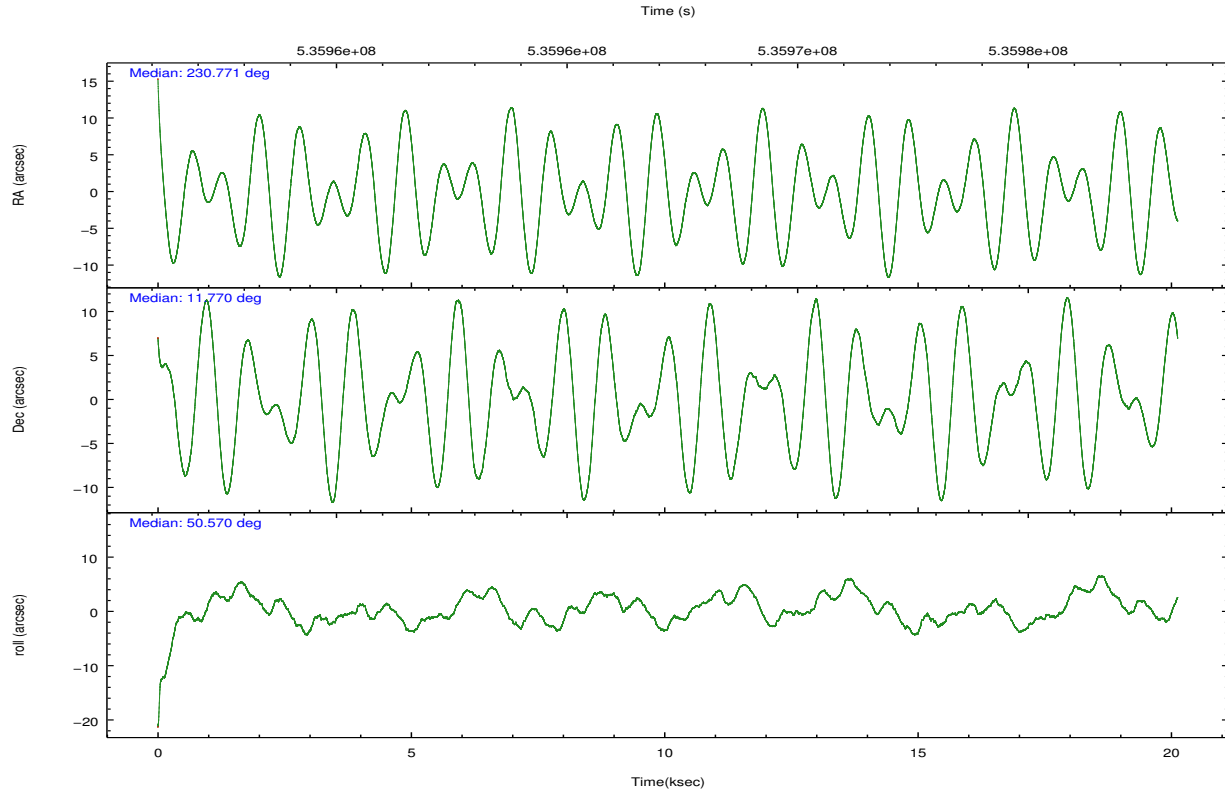
	ccd 6	ccd 7	ccd 8
grade 0 events	4085	5068	10000
	4%	5%	8%
grade 1 events	40	139	92
	0%	0%	0%
grade 2 events	2461	10759	7957
	2%	10%	7%
grade 3 events	1043	4278	3966
	1%	4%	3%
grade 4 events	1114	4336	3728
	1%	4%	3%
grade 5 events	3776	10293	5825
	4%	10%	5%
grade 6 events	2287	24133	8909
	2%	24%	7%
grade 7 events	70062	40327	72768
	82%	40%	64%

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	230.766648	230.77087153216	CCD I2 on	N	N
[deg] Pointing Dec	11.743194	11.77034508506684	CCD I3 on	N	N
[deg] Pointing Roll	50.420069	50.57582880312935	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	O2	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)	535957243.184000	535955673.17398	CCD S5 on	N	N
Observation start date	2014-12-26T04:59:36	2014-12-26T04:34:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	535977243.184000	535978137.58773	On-chip summing requested	N	N
Observation end date	2014-12-26T10:32:56	2014-12-26T10:48:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





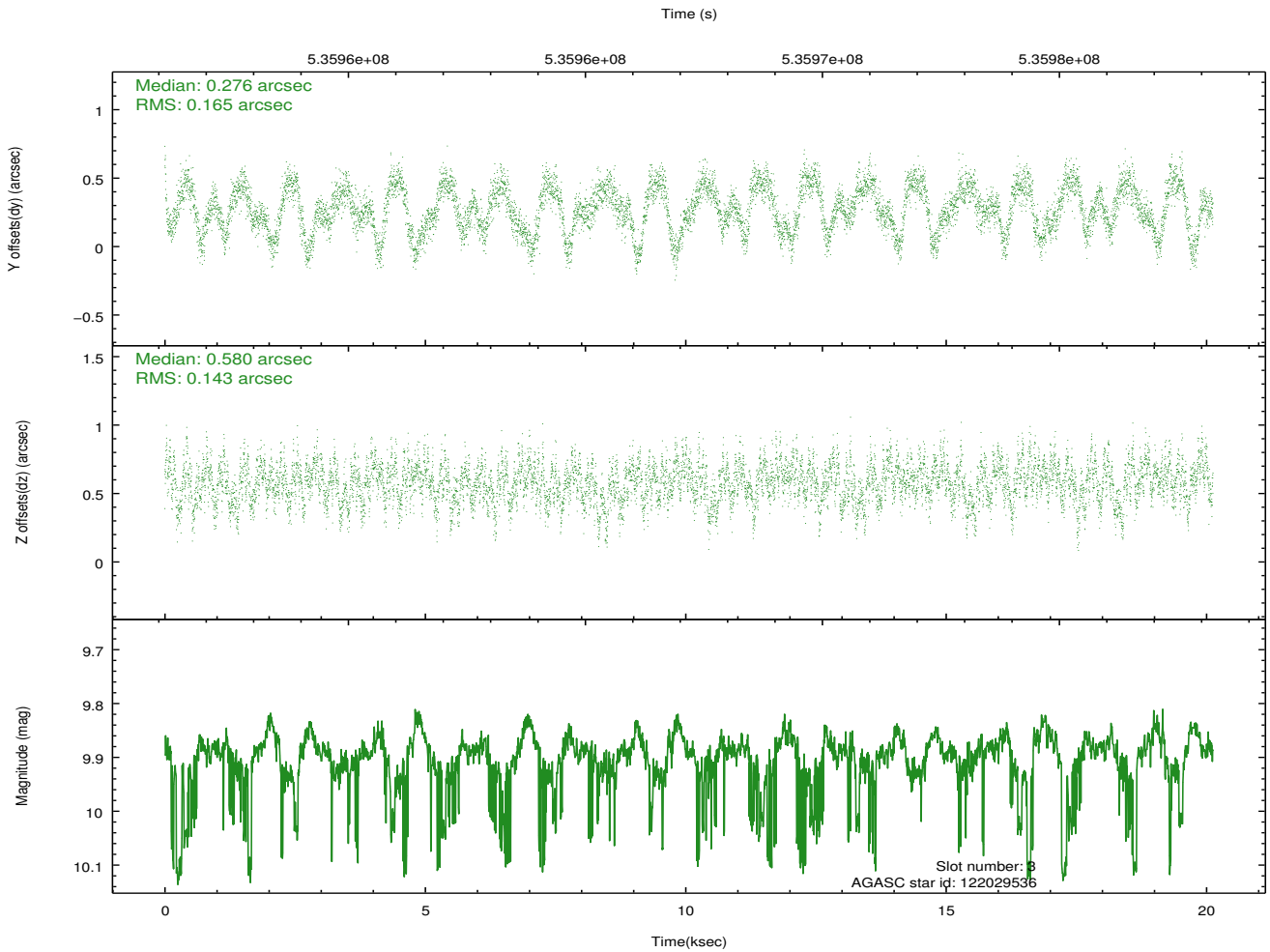
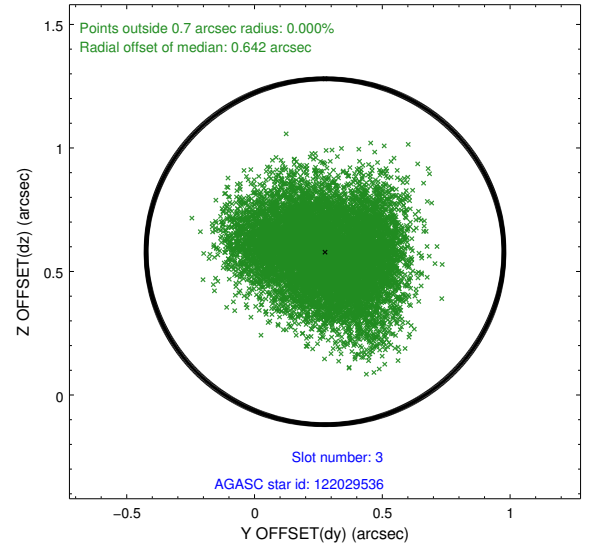
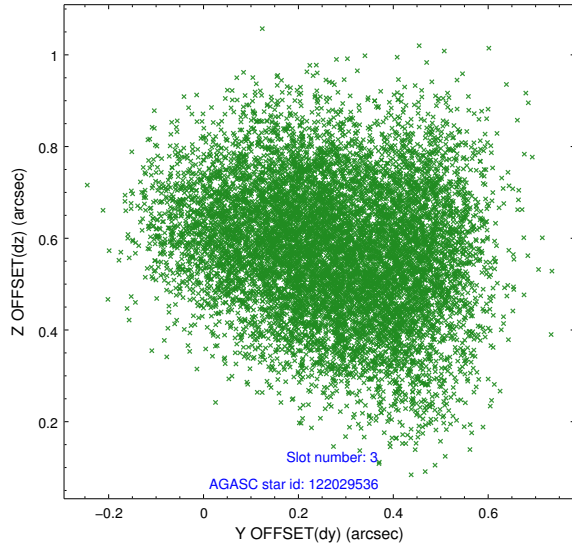
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.02	4909	0.224	0.010	0.008	0.012	0.000000	0.000000	2134.59	163.65
1	FID		ACIS-S-5	7.05	4907	-0.231	0.013	0.007	0.015	0.000000	0.000000	-1831.82	157.08
2	FID		ACIS-S-6	7.16	4909	-0.022	-0.009	0.009	0.016	0.000000	0.000000	382.39	800.84
3	GUIDE	used	122029536	9.90	9803	0.276	0.580	0.238	0.363	231.011516	11.180162	-1010.25	-1957.31
4	GUIDE	used	122033352	8.29	9816	0.233	0.258	0.093	0.149	230.834734	11.115364	-1588.26	-1625.58
5	GUIDE	used	122556976	8.14	9816	-0.086	-0.449	0.110	0.168	230.719274	12.094438	868.24	933.66
6	GUIDE	used	122558080	8.68	9810	0.083	0.163	0.118	0.180	231.192266	11.769655	1030.53	-1093.95
7	GUIDE	used	122552584	6.77	9817	-0.496	-0.549	0.121	0.178	230.596825	12.567522	1906.85	2350.43

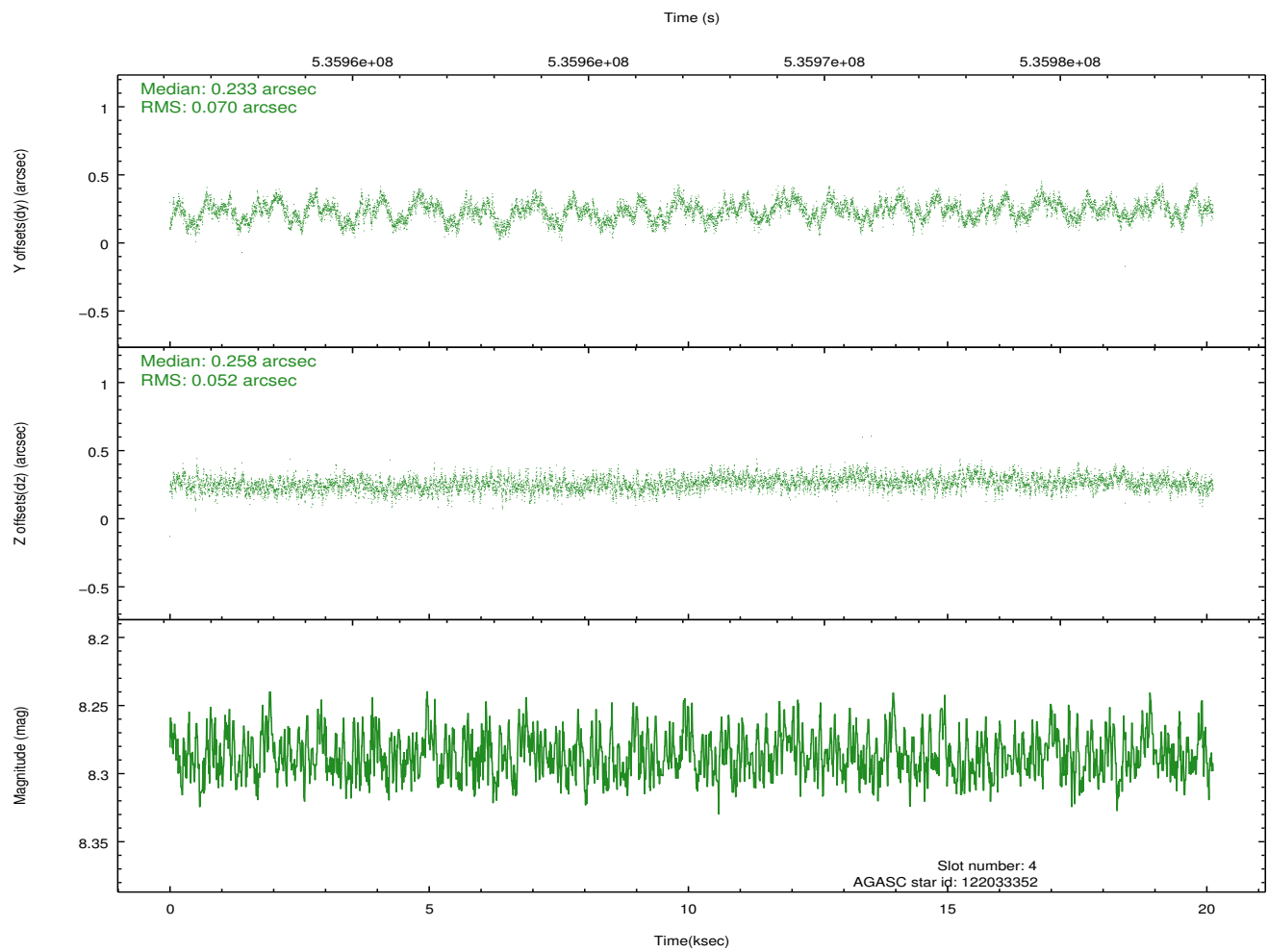
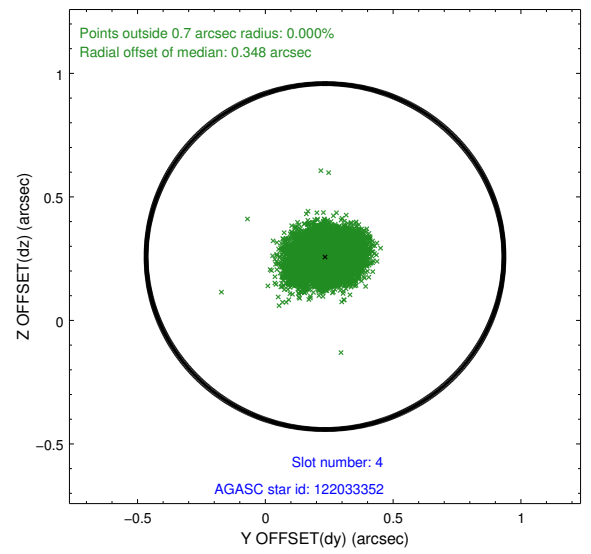
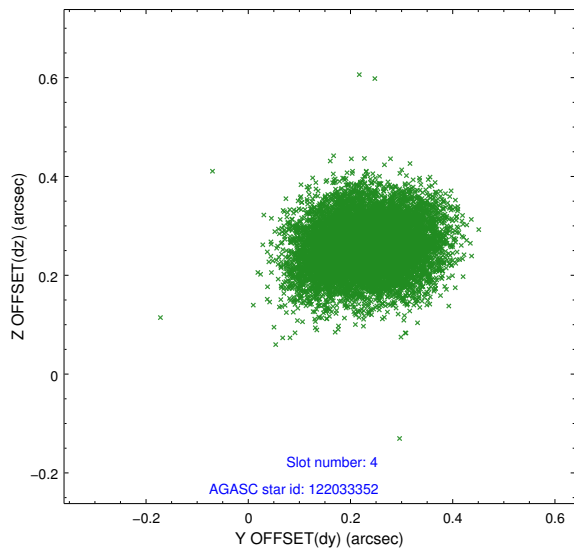
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2.4 Star Slots

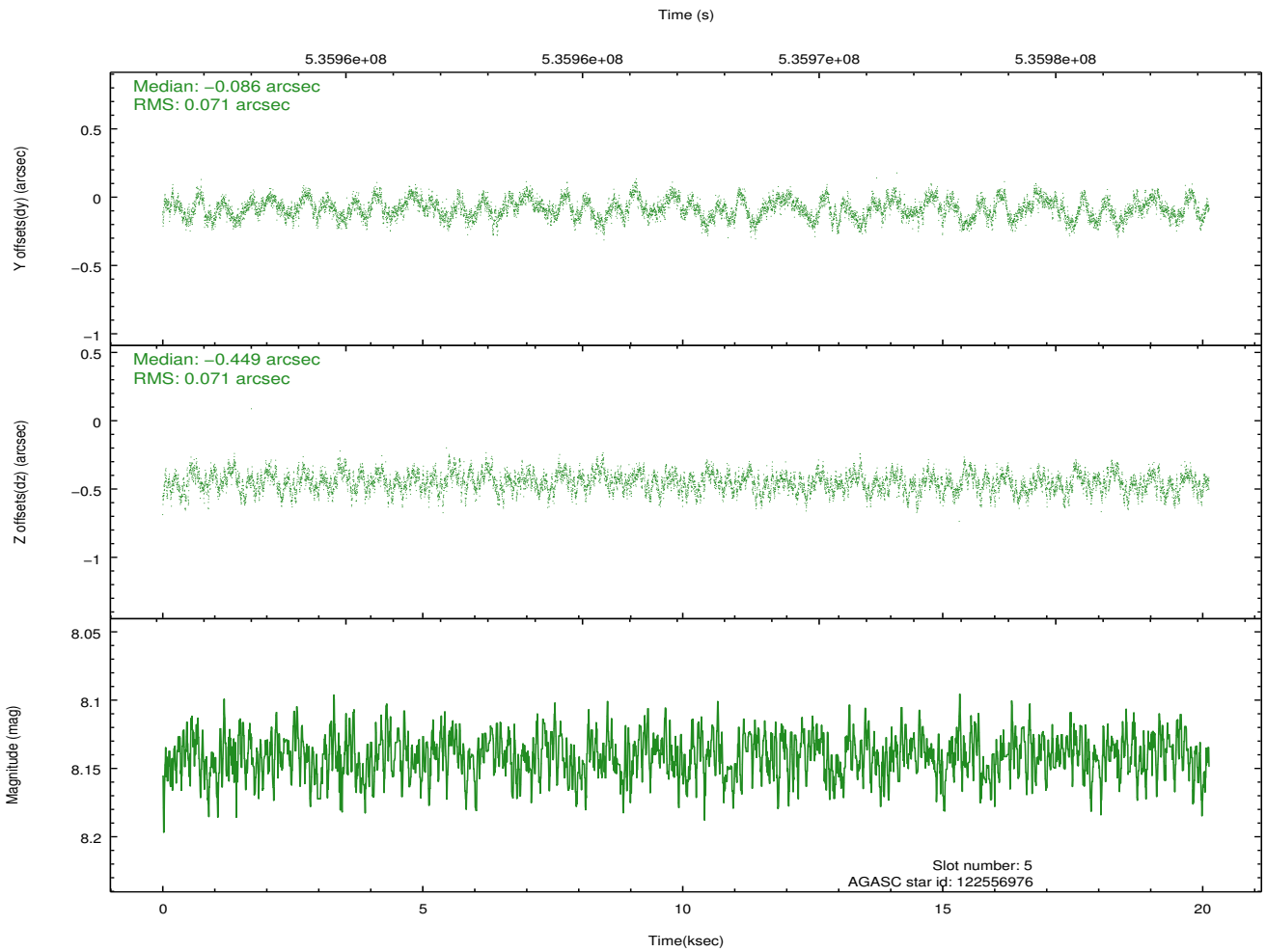
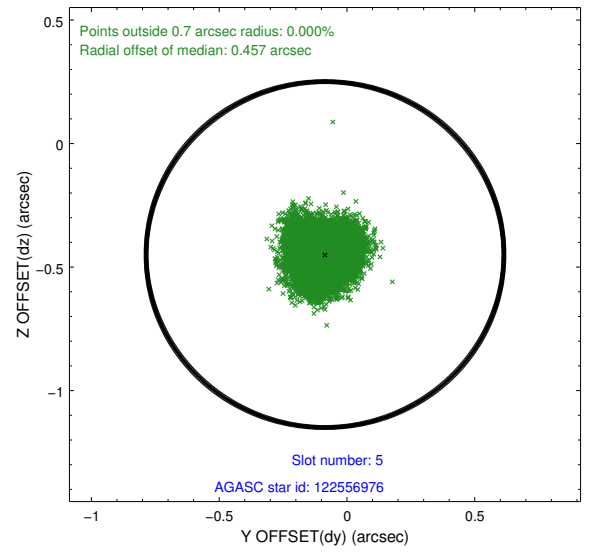
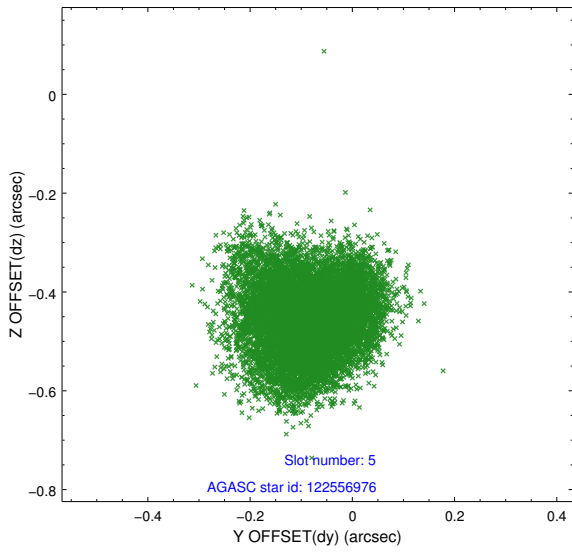
2.4.1 Slot 3



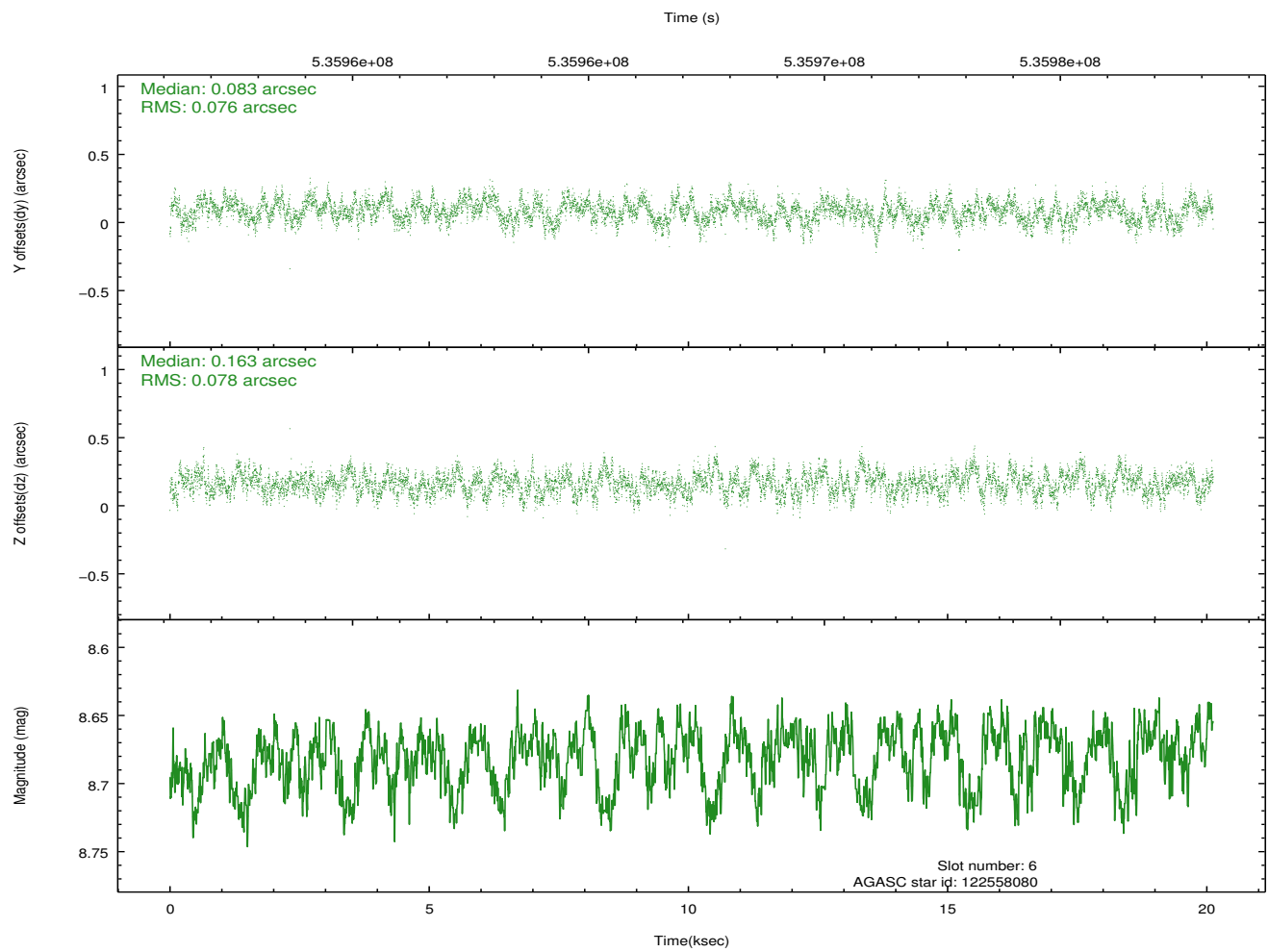
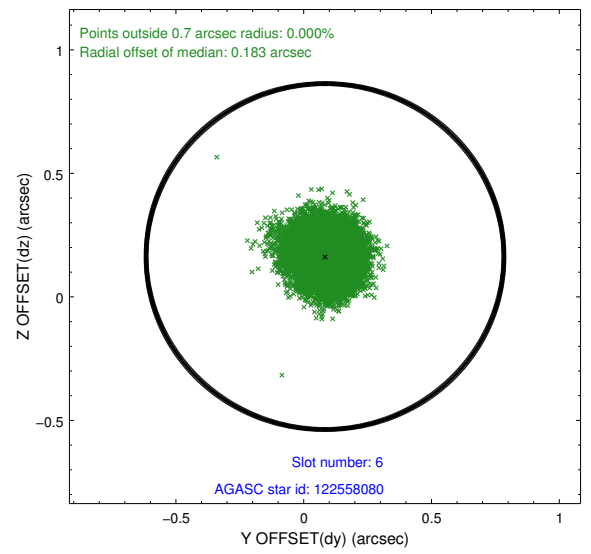
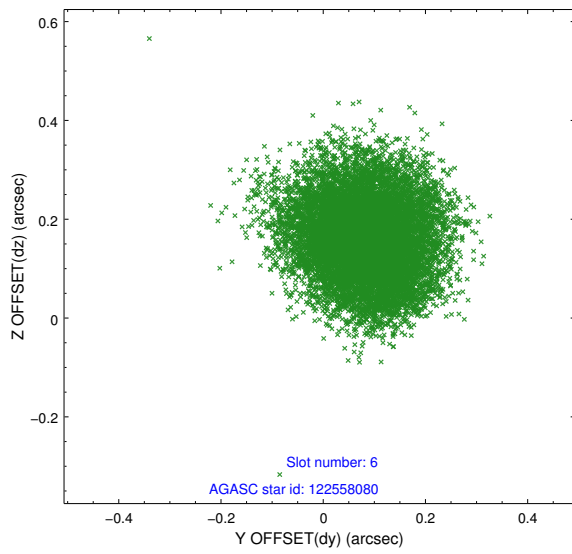
2.4.2 Slot 4



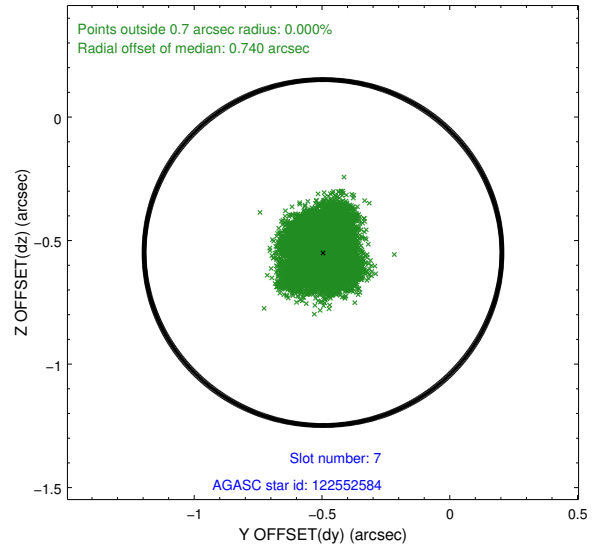
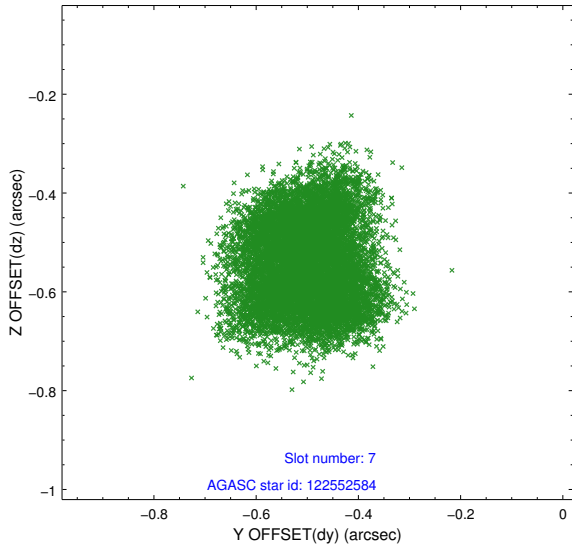
2.4.3 Slot 5



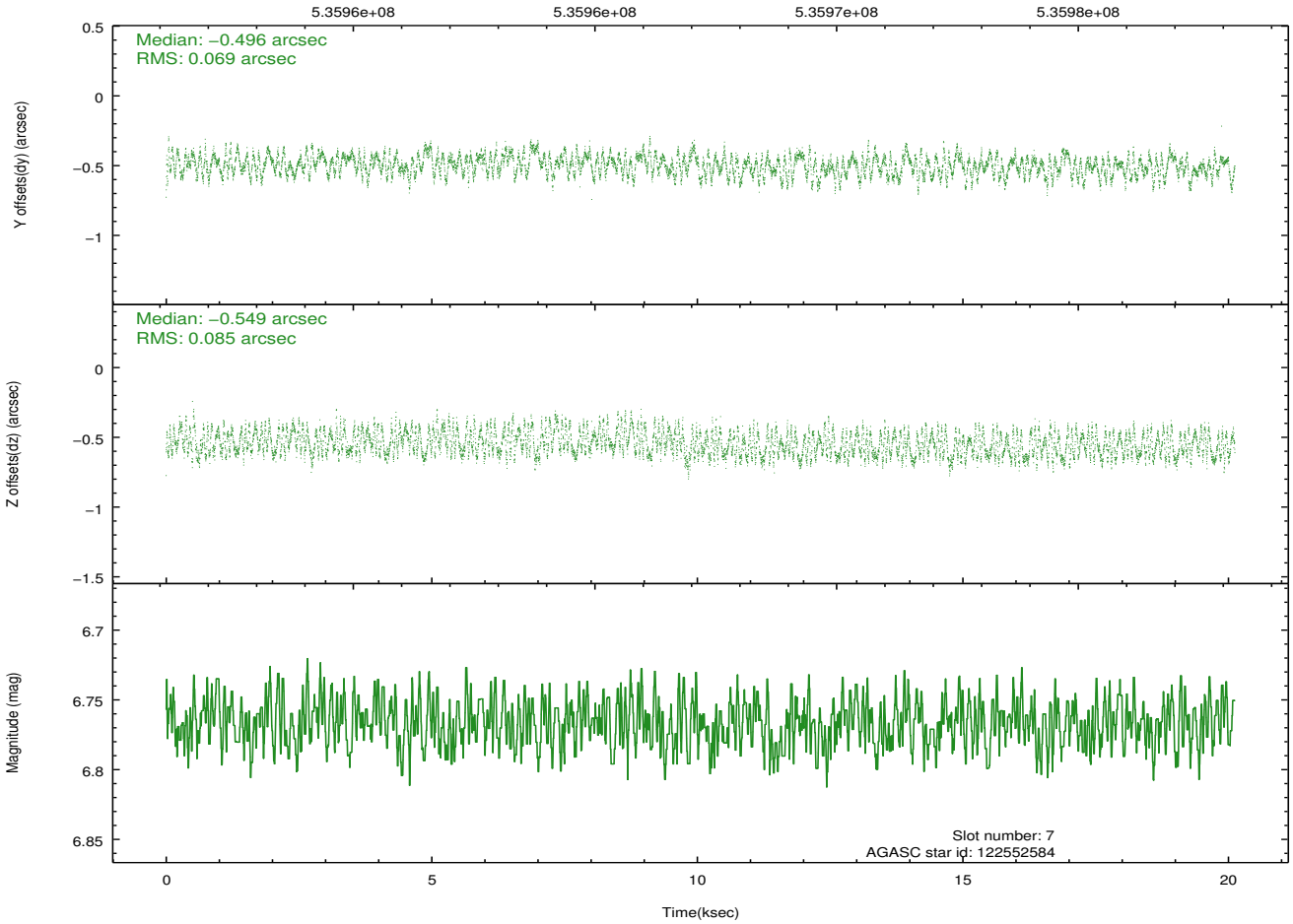
2.4.4 Slot 6



2.4.5 Slot 7

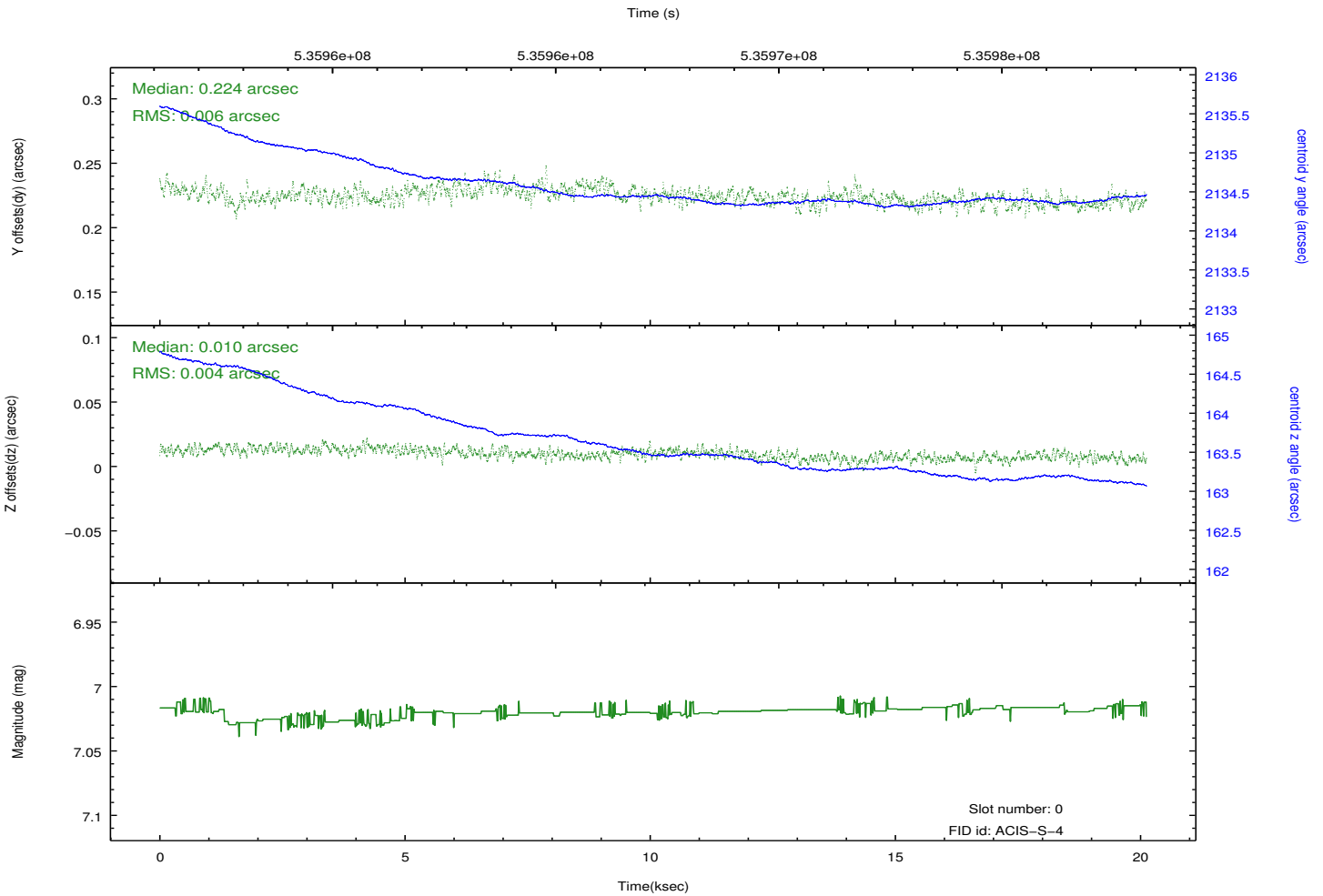
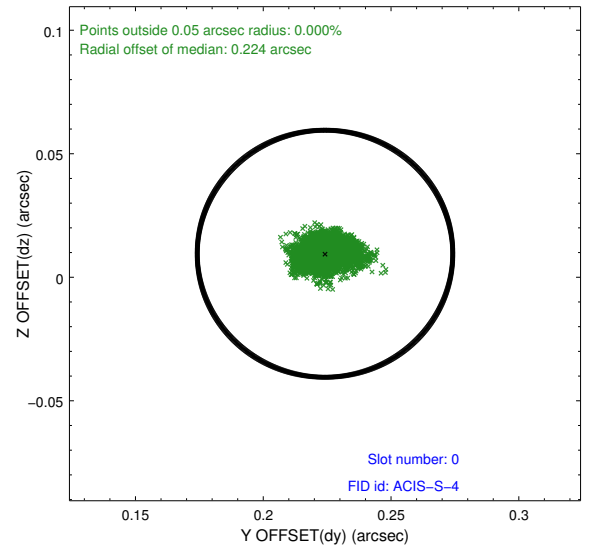
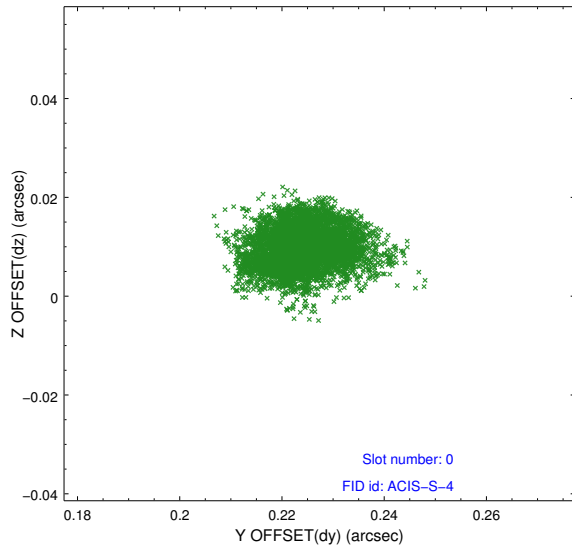


Time (s)

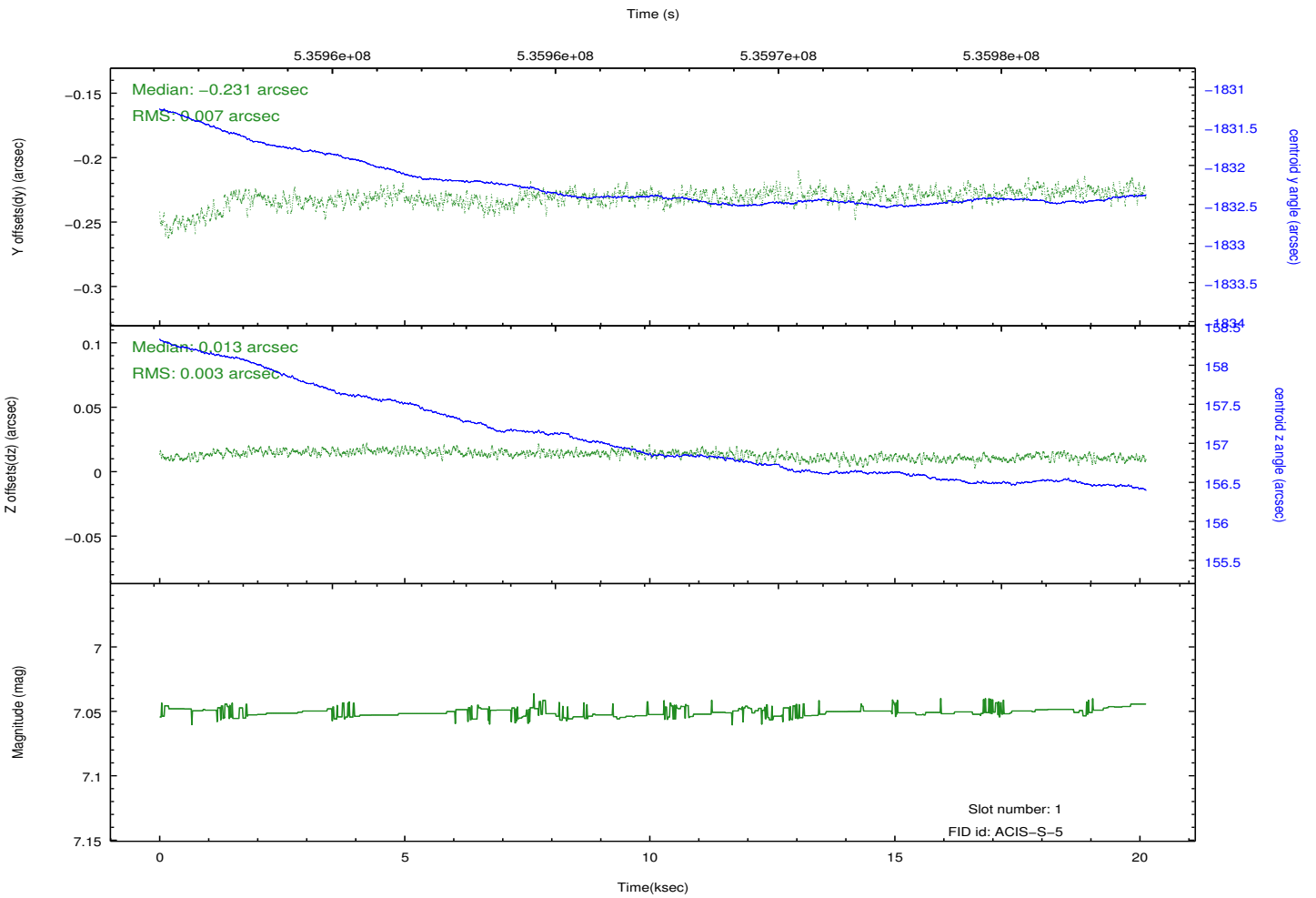
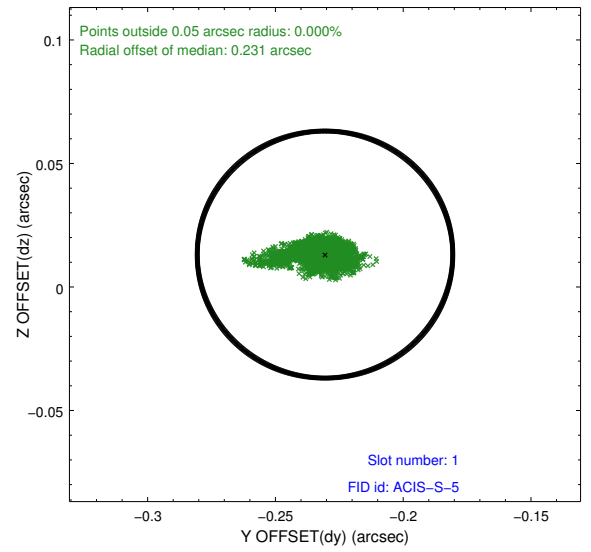
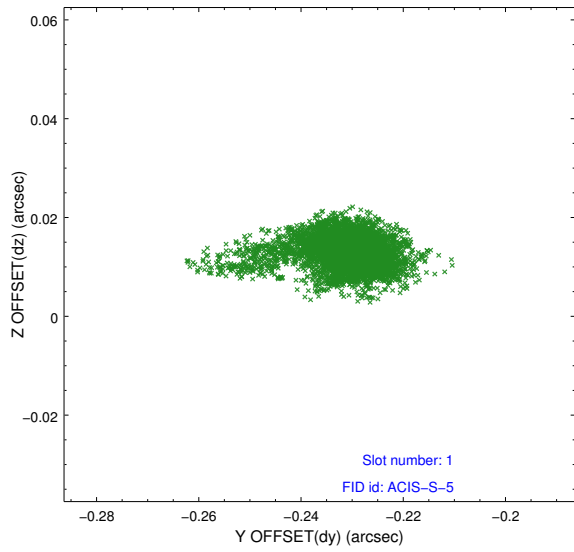


2.5 FID Slots

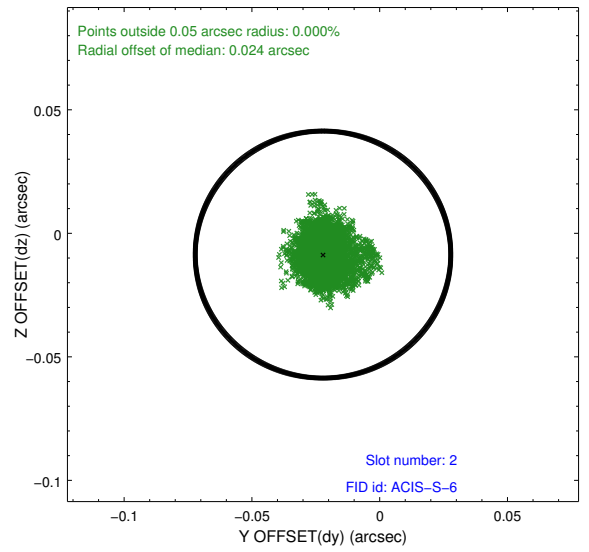
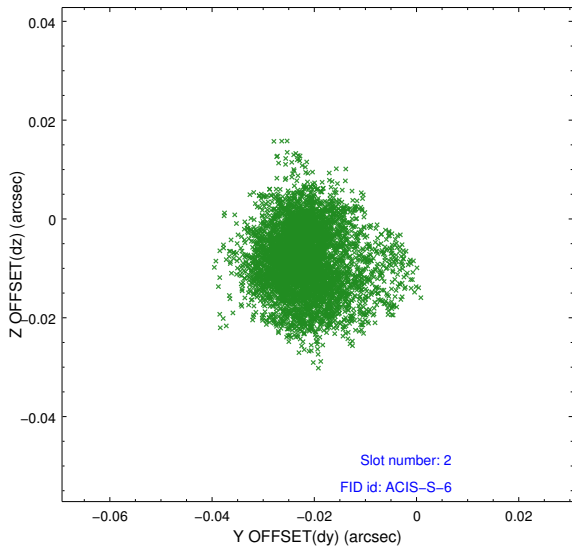
2.5.1 Slot 0



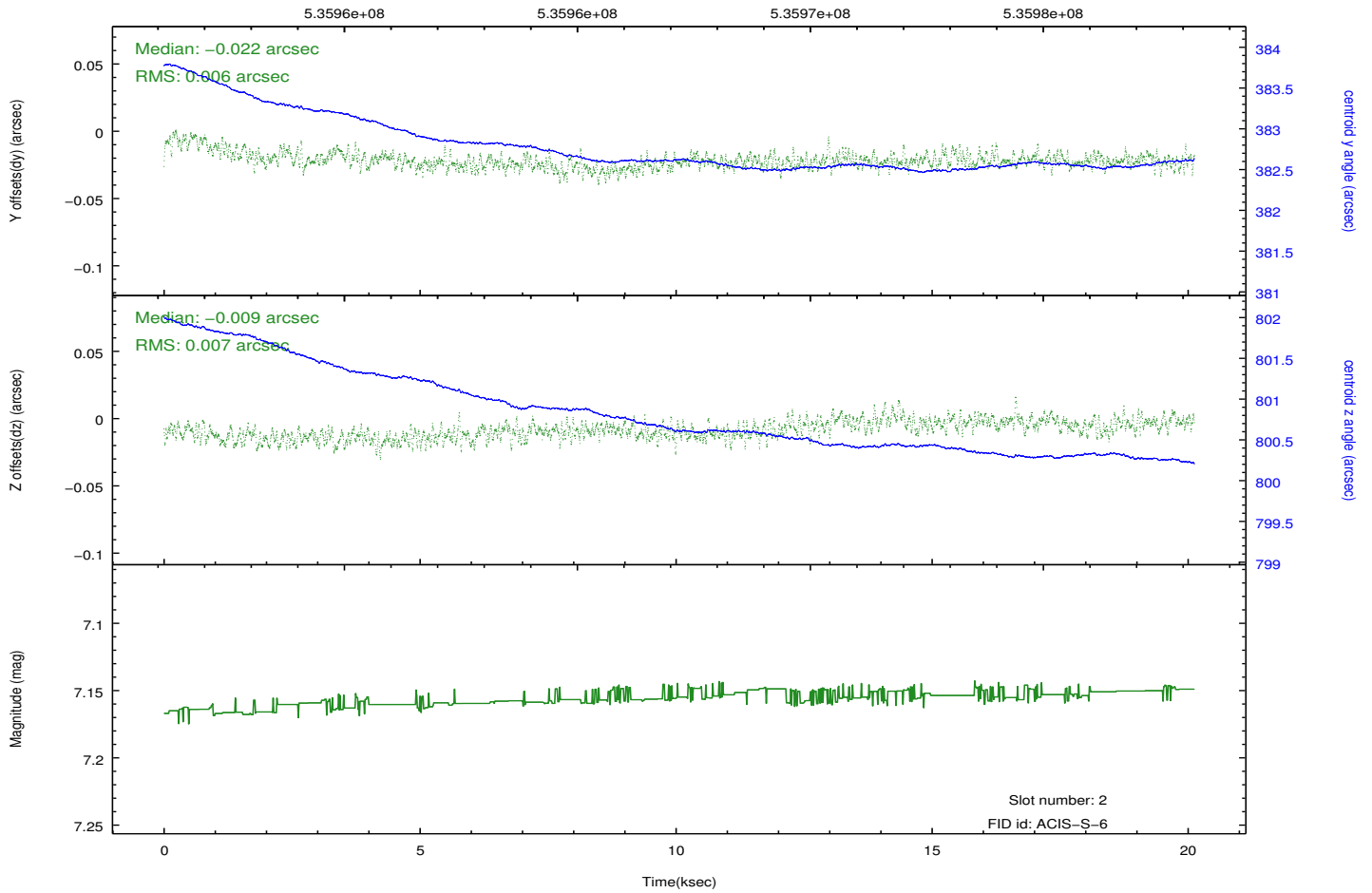
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.12.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.078069021702

A.2 Comments