

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19554 - L2 Version 1
Chandra X-Ray Center

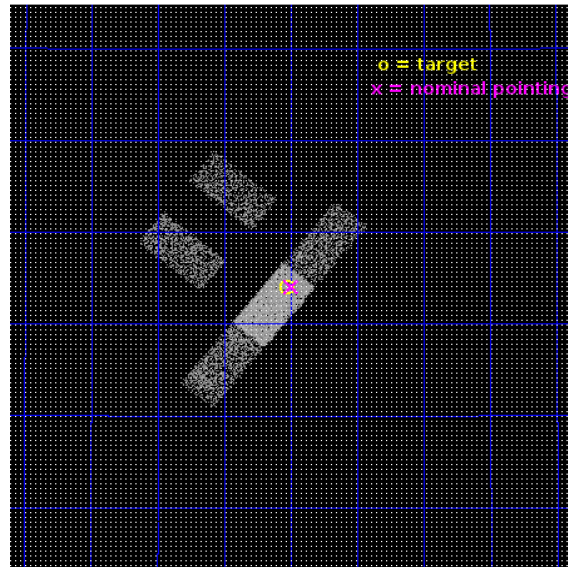
L2 Processing Date : Mar 22 2017

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

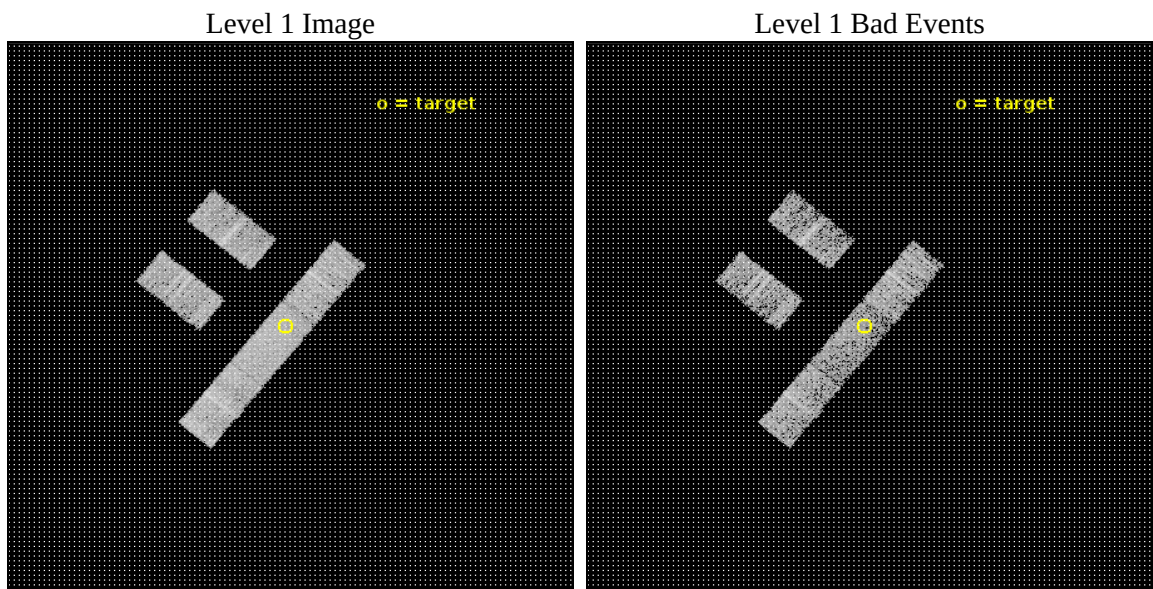
seq_num	703402	Sequence number
obs_id	19554	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ134701.54+215401.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	206.75625	Observer's specified target RA [deg]
dec_targ	21.900333	Observer's specified target Dec [deg]
ra_nom	206.74865702	Nominal RA [deg]
dec_nom	21.901087823588	Nominal Dec [deg]
roll_nom	129.12693800646	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3588.7001006603	Sum of GTIs [s]
livetime	3504.1068390861	Livetime [s]
ontime2	3588.6956700087	Sum of GTIs [s]
ontime3	3588.7001006603	Sum of GTIs [s]
ontime6	3588.7001006603	Sum of GTIs [s]
ontime7	3588.7001006603	Sum of GTIs [s]
ontime8	3588.7001006603	Sum of GTIs [s]
l2events	13227	Number of level 2 events



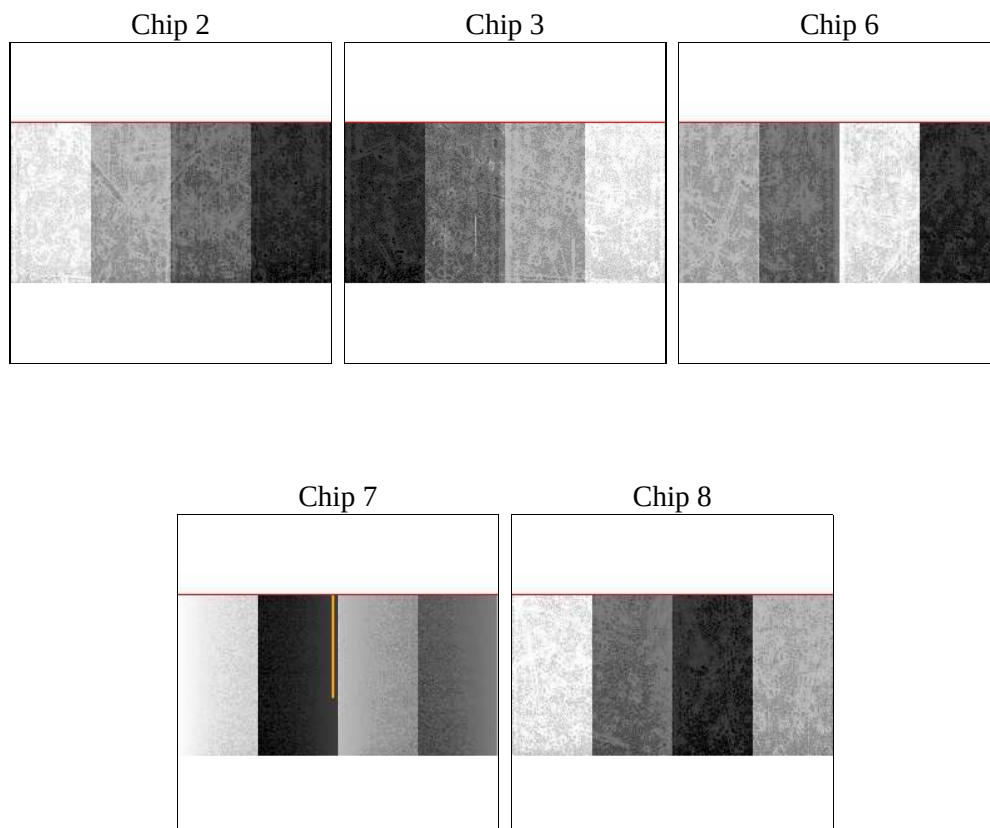
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	3588.7001006603	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	3588.6956700087	Sum of GTIs [s]
date	2017-03-22T14:01:52	Date and time of file creation	ontime3	3588.7001006603	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3588.7001006603	Sum of GTIs [s]
			ontime7	3588.7001006603	Sum of GTIs [s]
			ontime8	3588.7001006603	Sum of GTIs [s]
			l1events	77106	Number of level 1 events

2.1.4 Events

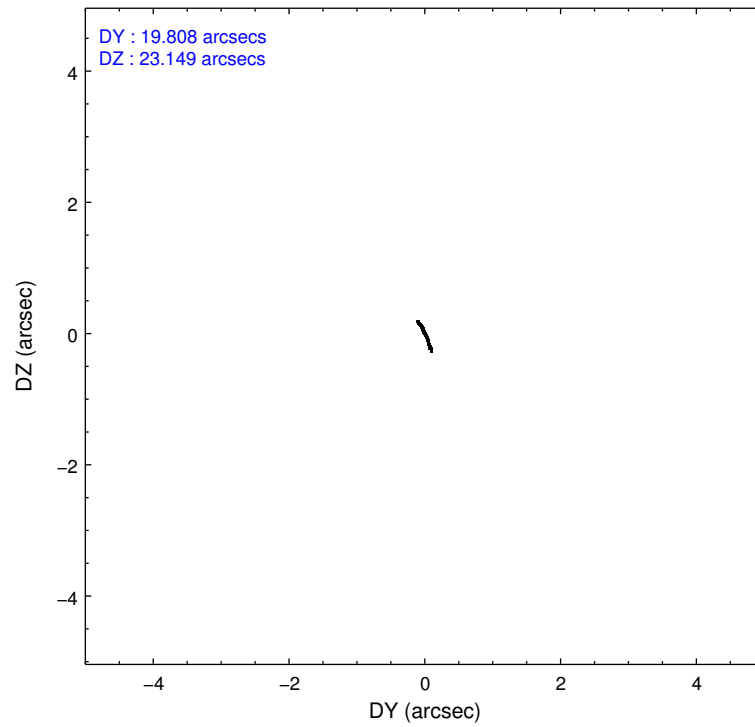
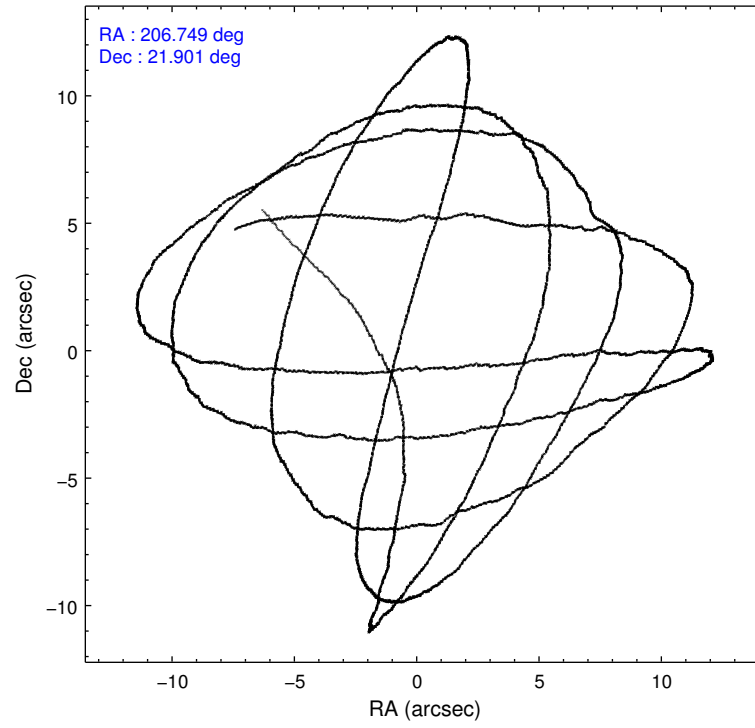
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	12787	13589	15135	17018	18577
rejected events	11309	12071	13470	9136	13241
rejected %	88%	88%	88%	53%	71%

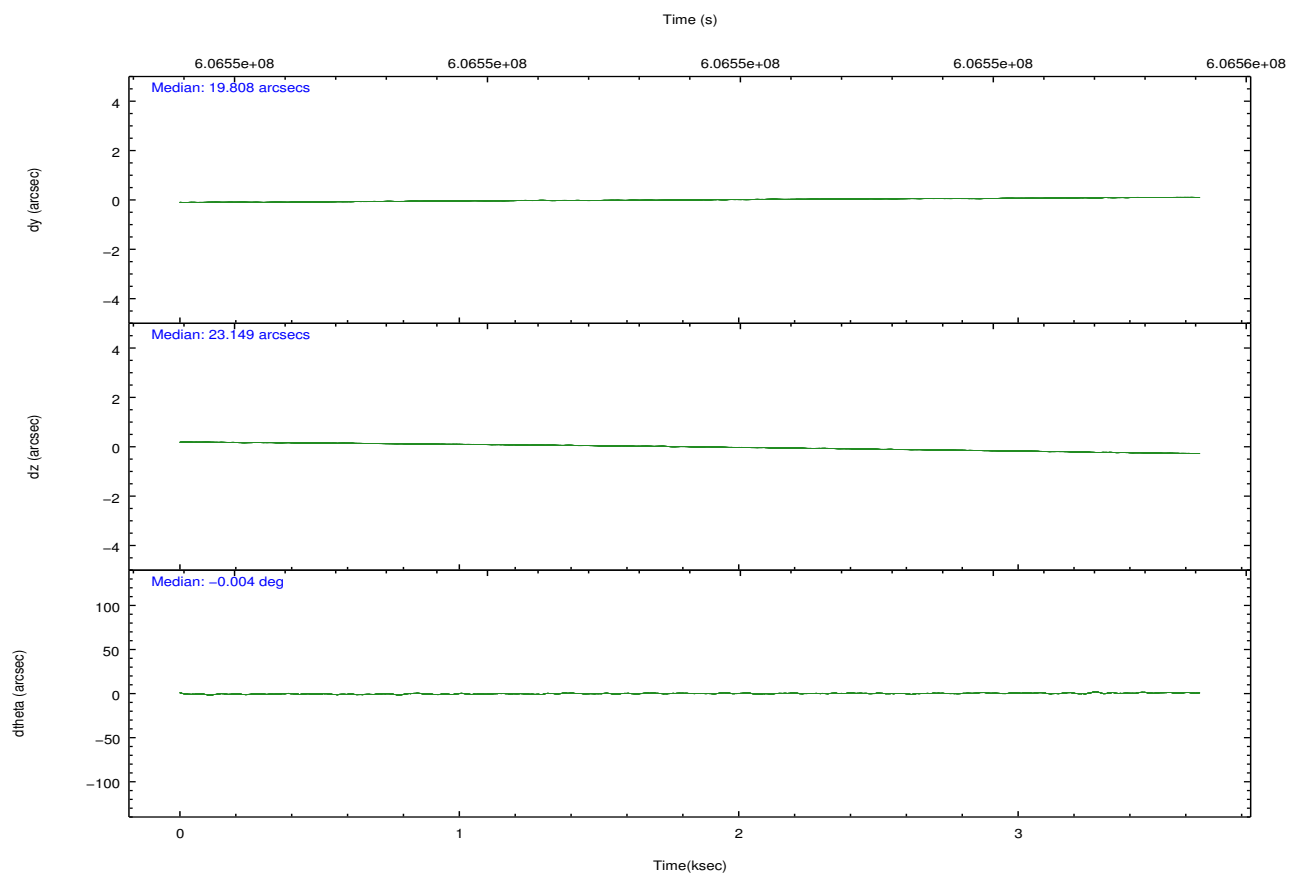
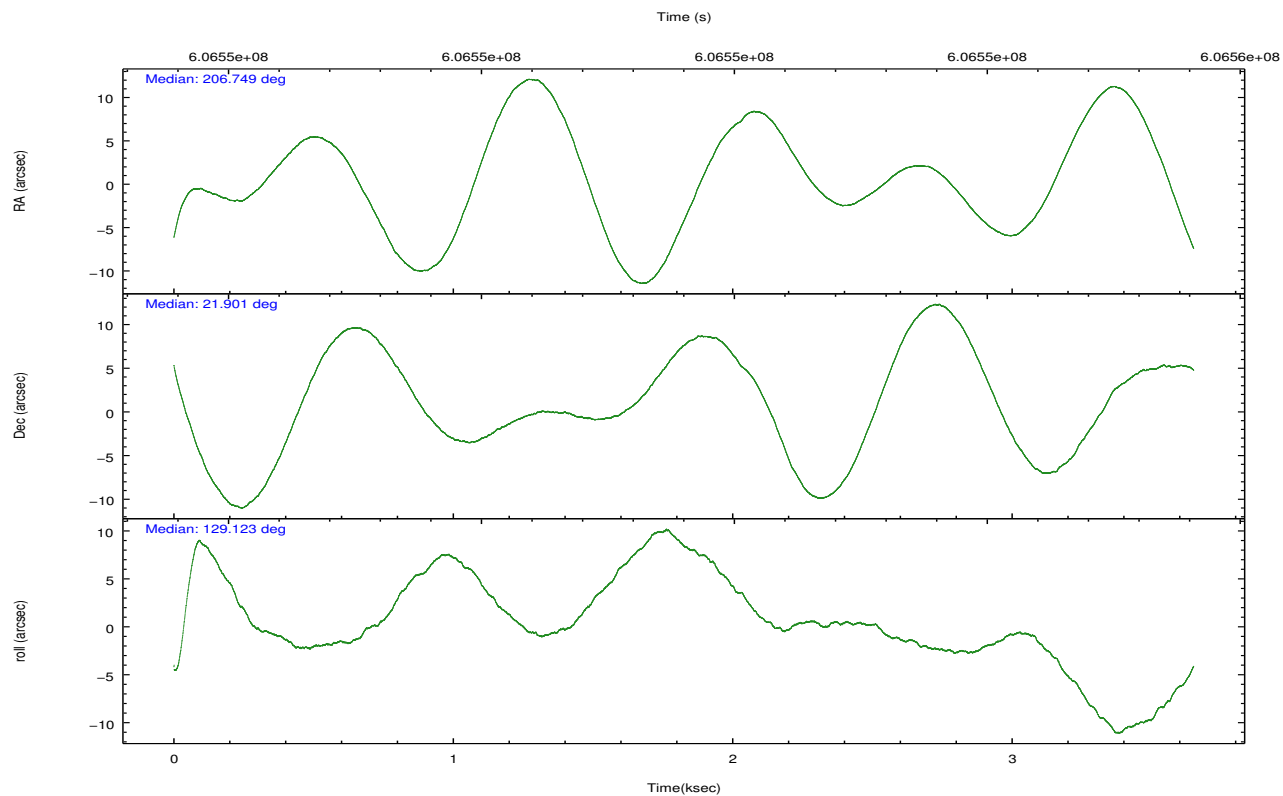
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	503	533	547	775	1619
	3%	3%	3%	4%	8%
grade 1 events	7	9	3	31	9
	0%	0%	0%	0%	0%
grade 2 events	363	339	388	1622	1204
	2%	2%	2%	9%	6%
grade 3 events	167	187	187	762	612
	1%	1%	1%	4%	3%
grade 4 events	181	186	192	714	542
	1%	1%	1%	4%	2%
grade 5 events	471	652	638	1700	935
	3%	4%	4%	9%	5%
grade 6 events	264	273	352	4016	1360
	2%	2%	2%	23%	7%
grade 7 events	10831	11410	12828	7398	12296
	84%	83%	84%	43%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	206.776403	206.7486570200001	CCD I2 on	O1	Y
[deg] Pointing Dec	21.891770	21.90108782358797	CCD I3 on	Y	Y
[deg] Pointing Roll	128.959981	129.1269380064632	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	Y	Y
[s] Observation start time (MET)	606551145.184000	606550038.07767	CCD S5 on	N	N
Observation start date	2017-03-22T06:24:36	2017-03-22T06:07:18	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	606554645.184000	606555816.00301	On-chip summing requested	N	N
Observation end date	2017-03-22T07:22:56	2017-03-22T07:43:36	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



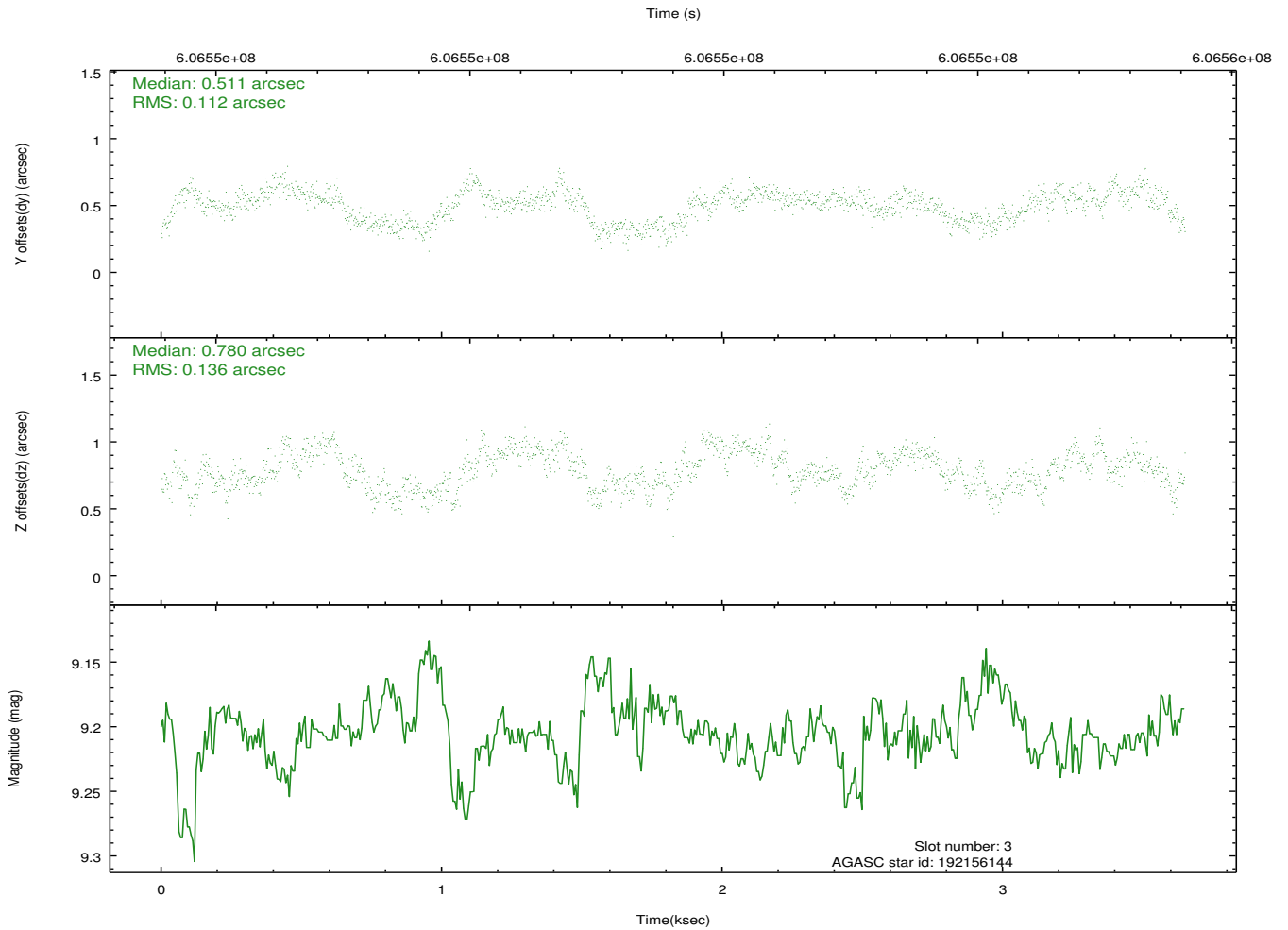
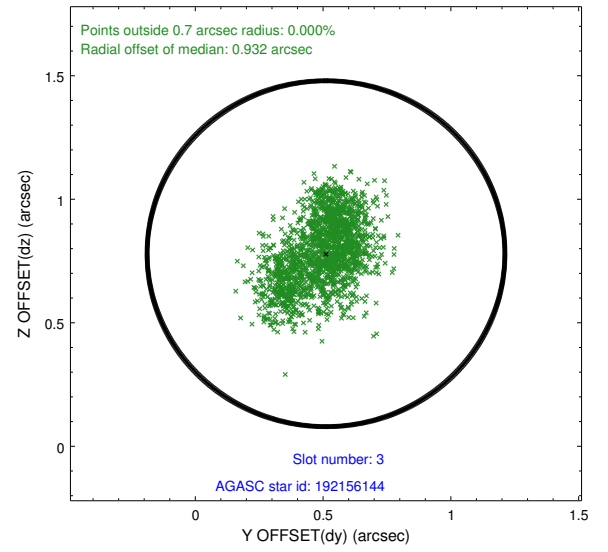
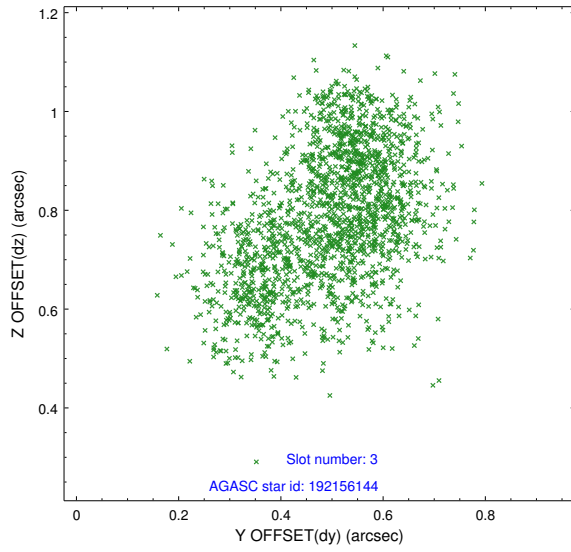


Slot Statistics

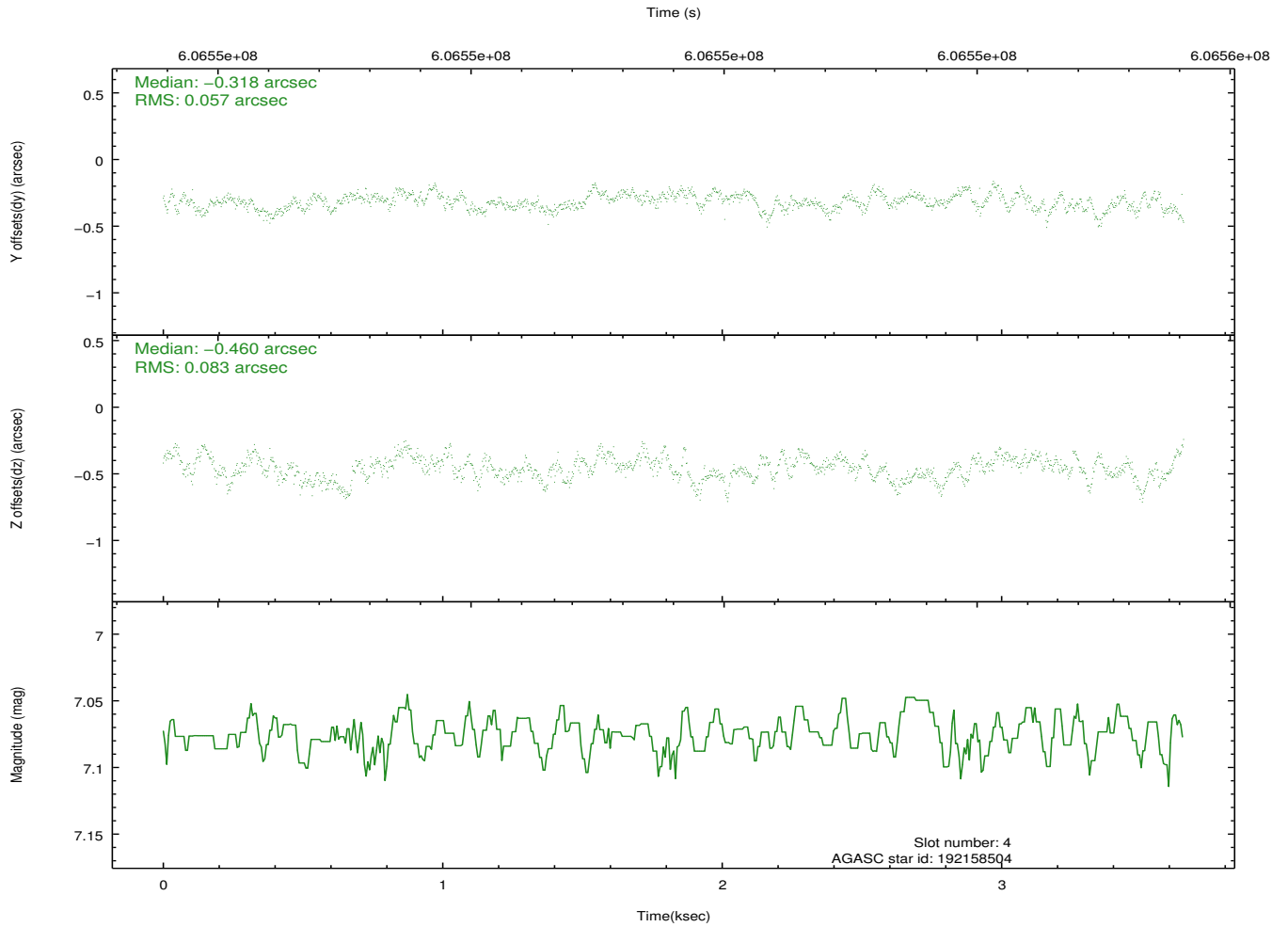
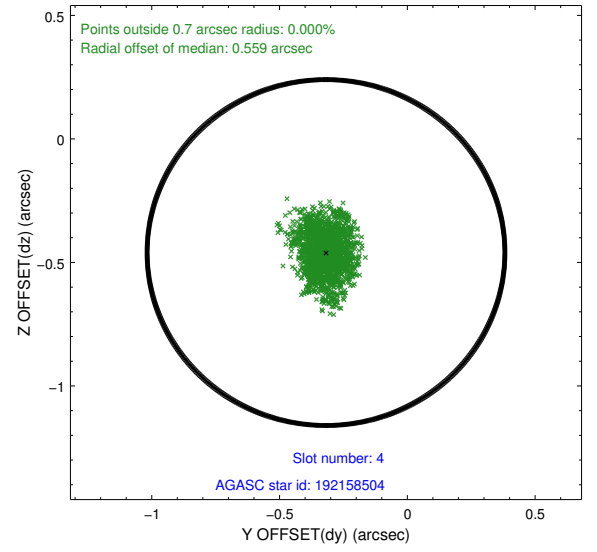
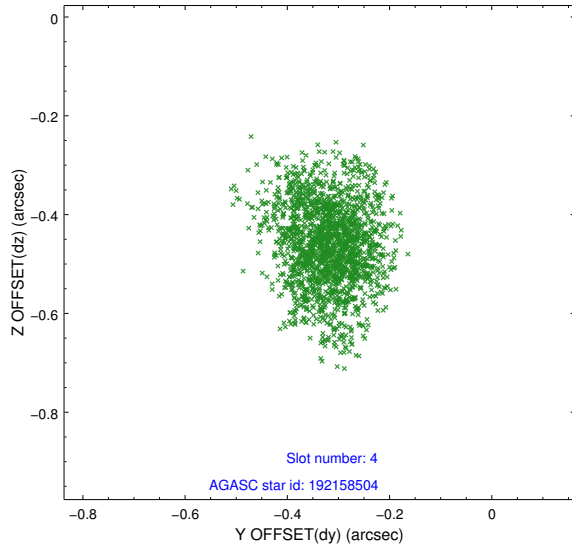
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	891	-0.231	-0.133	0.009	0.014	0.000000	0.000000	-773.15	-1744.81
1	FID		ACIS-S-4	7.10	891	0.478	0.147	0.008	0.014	0.000000	0.000000	2140.05	162.14
2	FID		ACIS-S-5	7.10	891	-0.277	-0.006	0.009	0.014	0.000000	0.000000	-1823.83	157.64
3	GUIDE	used	192156144	9.21	1780	0.511	0.780	0.194	0.291	207.152720	22.016862	-437.14	-1260.23
4	GUIDE	used	192158504	7.08	1782	-0.318	-0.460	0.108	0.174	205.996240	21.818066	1438.44	2189.44
5	GUIDE	used	192158536	8.62	1780	-0.139	-0.341	0.120	0.200	205.872071	22.018453	2260.80	2054.96
6	GUIDE	used	262019632	8.37	1778	-0.013	0.205	0.107	0.188	206.698776	22.523832	1936.32	-1226.84
7	GUIDE	used	192158816	8.75	1781	-0.036	-0.190	0.120	0.187	206.072485	21.869675	1422.64	1874.29

2.4 Star Slots

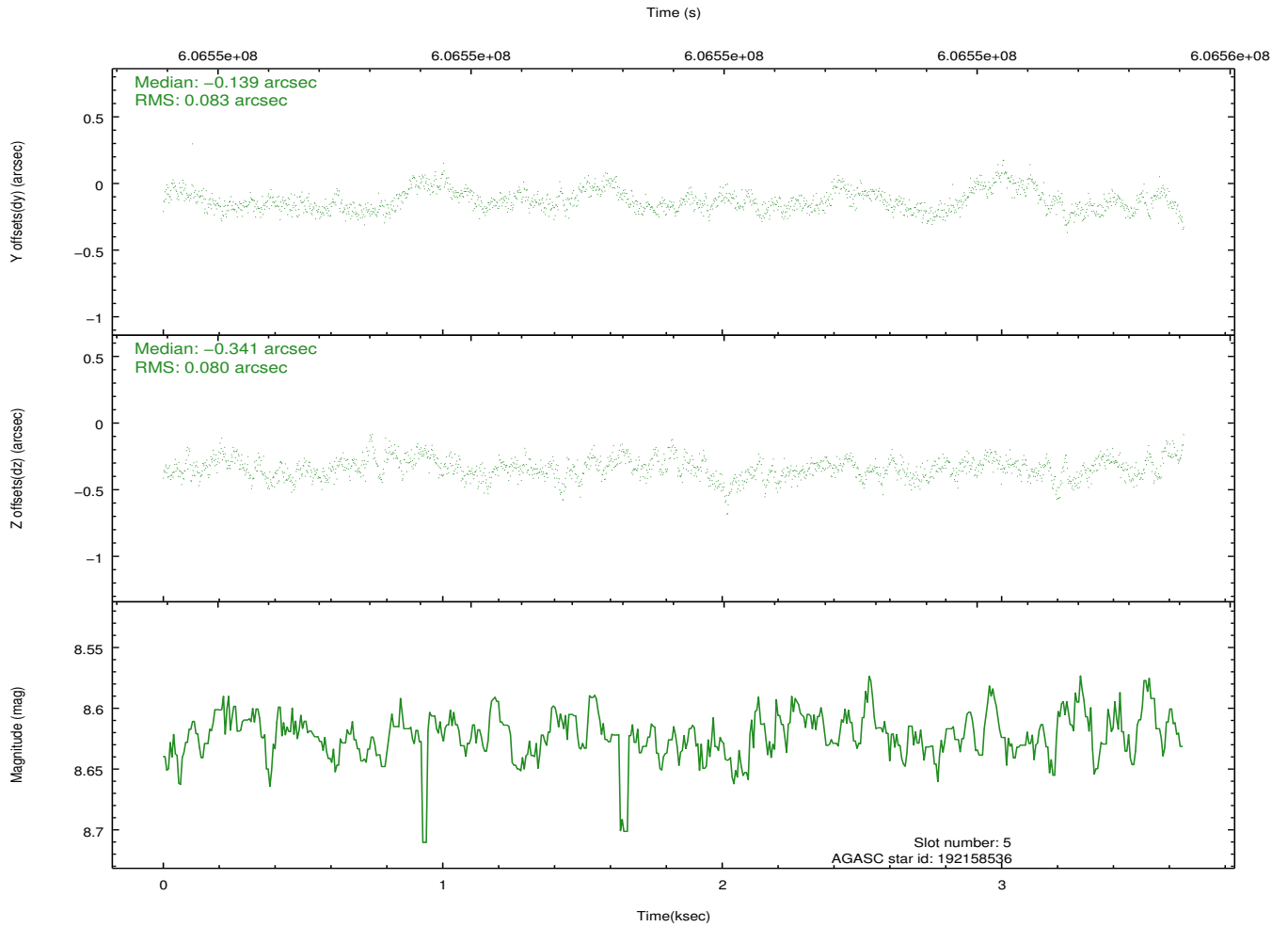
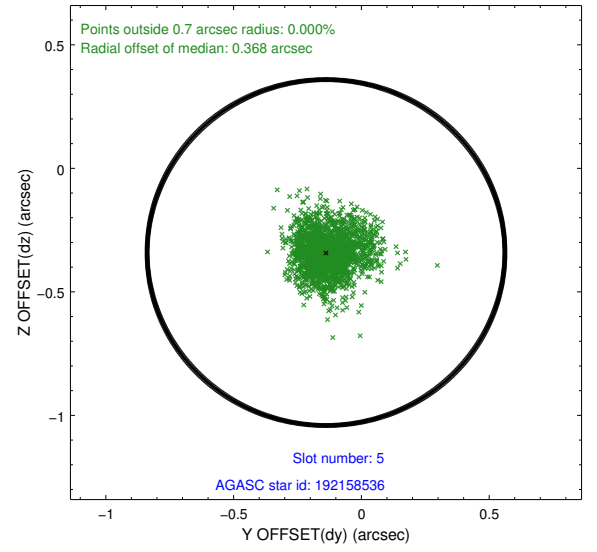
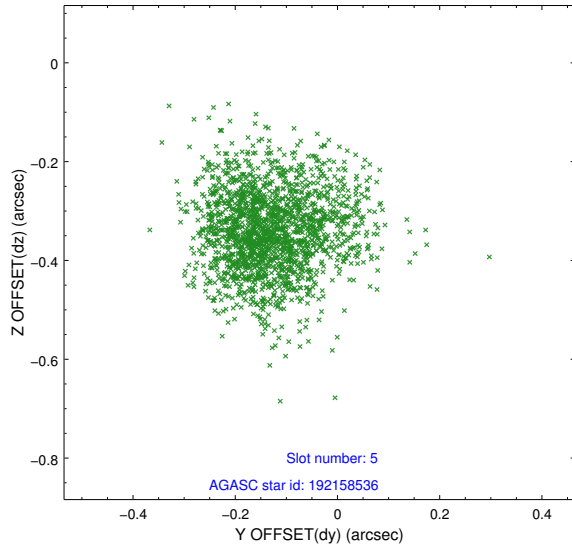
2.4.1 Slot 3



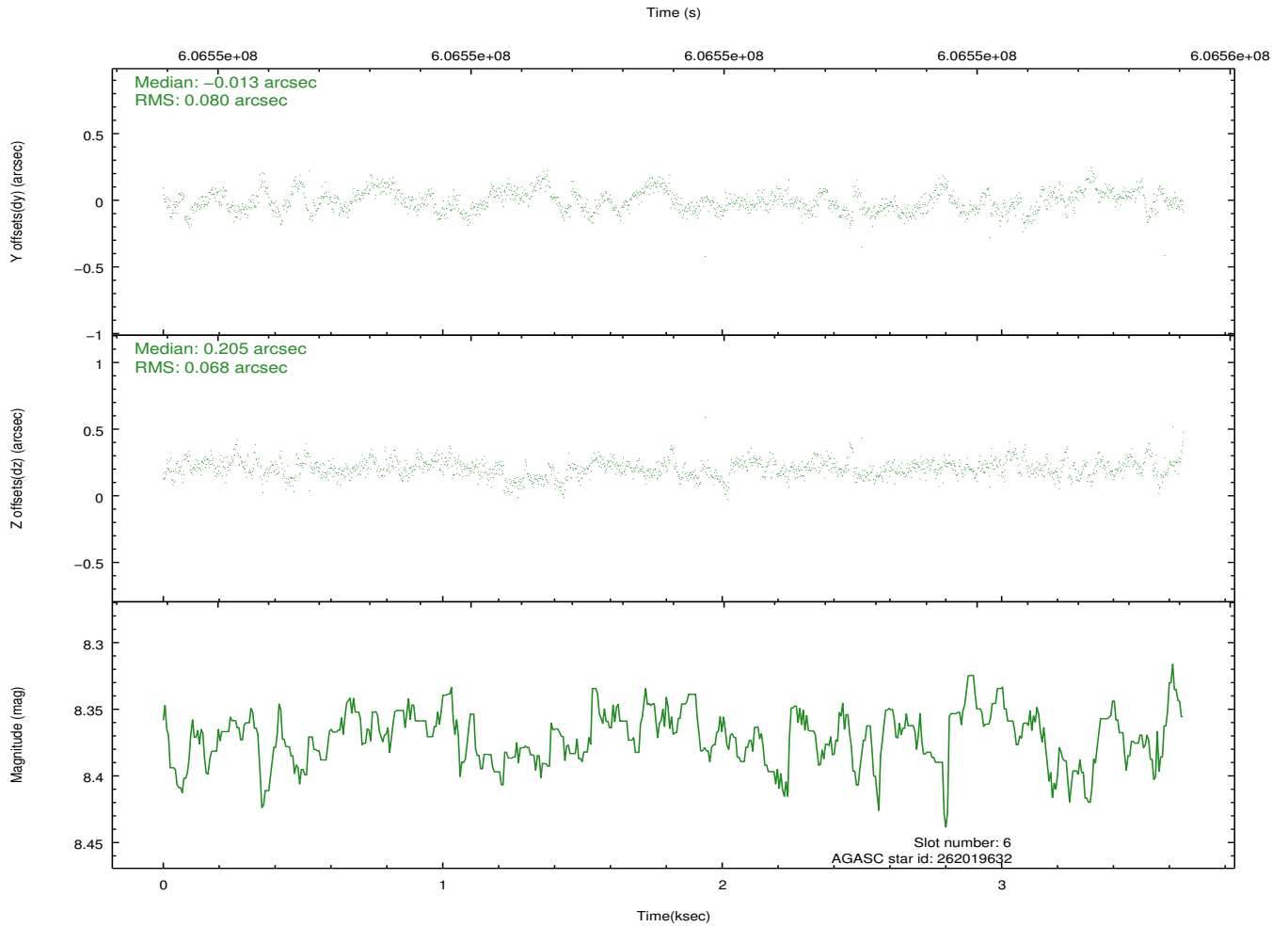
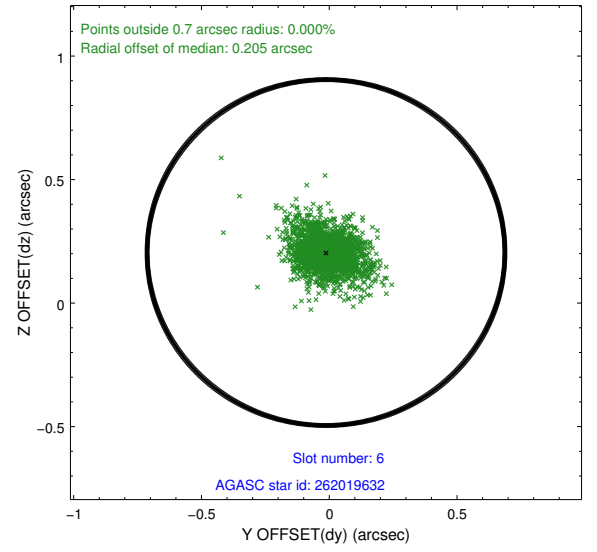
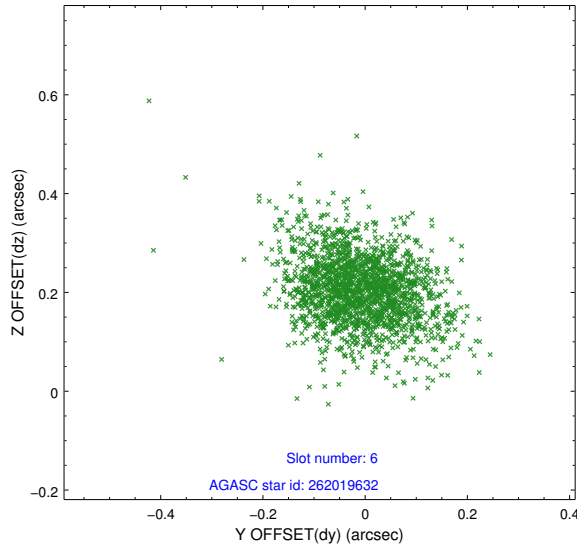
2.4.2 Slot 4



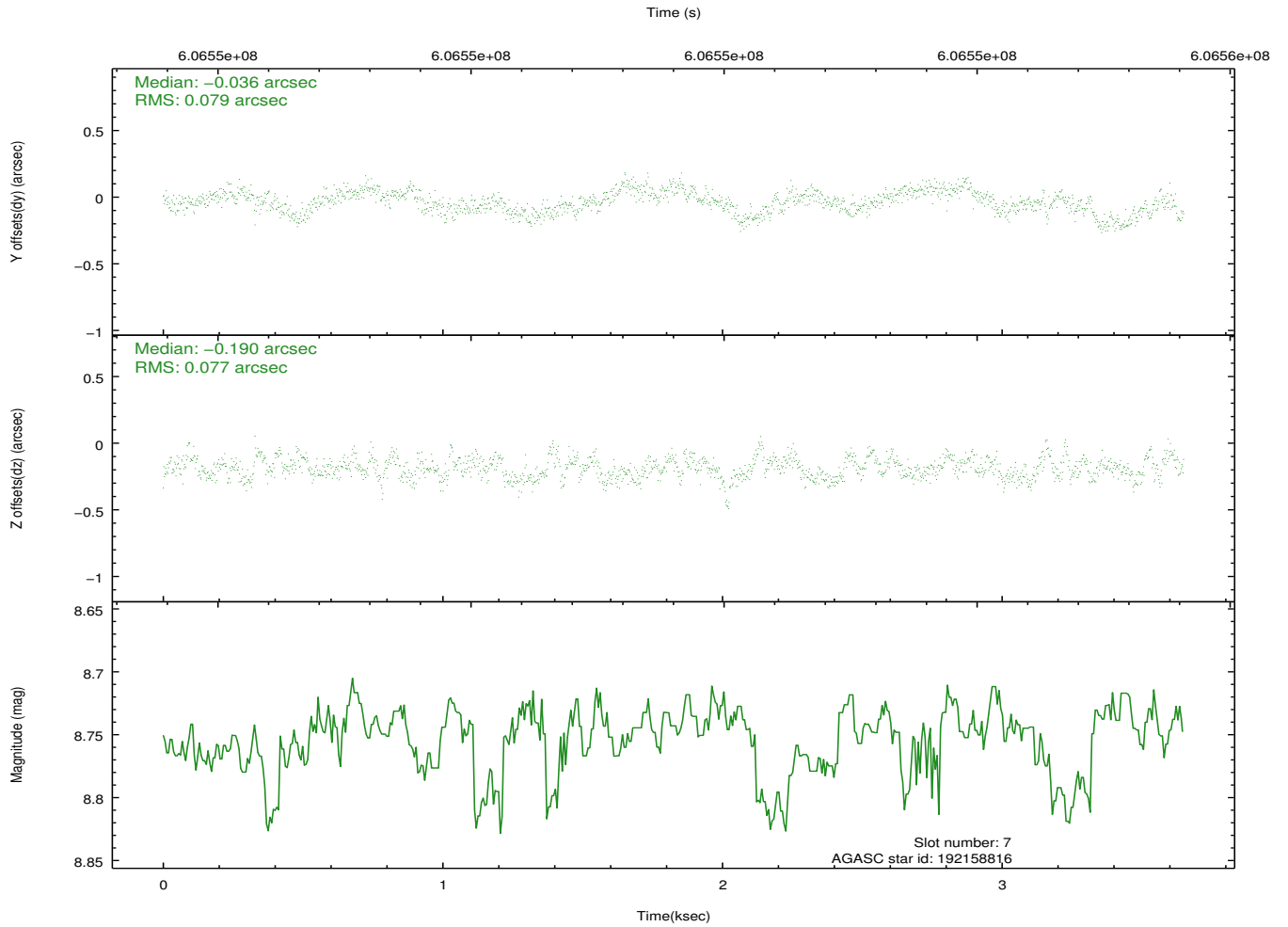
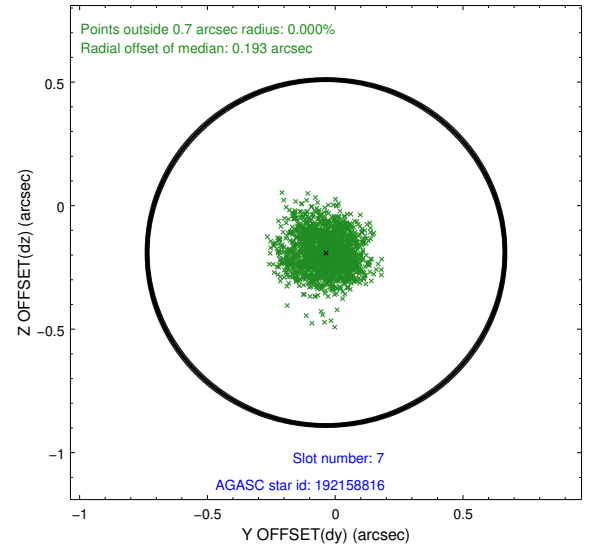
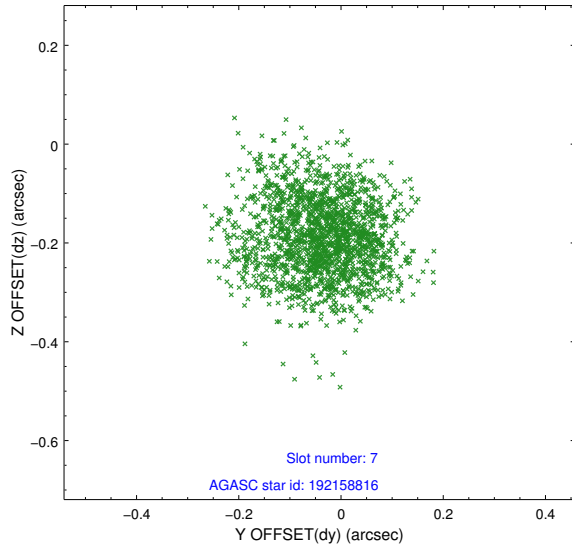
2.4.3 Slot 5



2.4.4 Slot 6

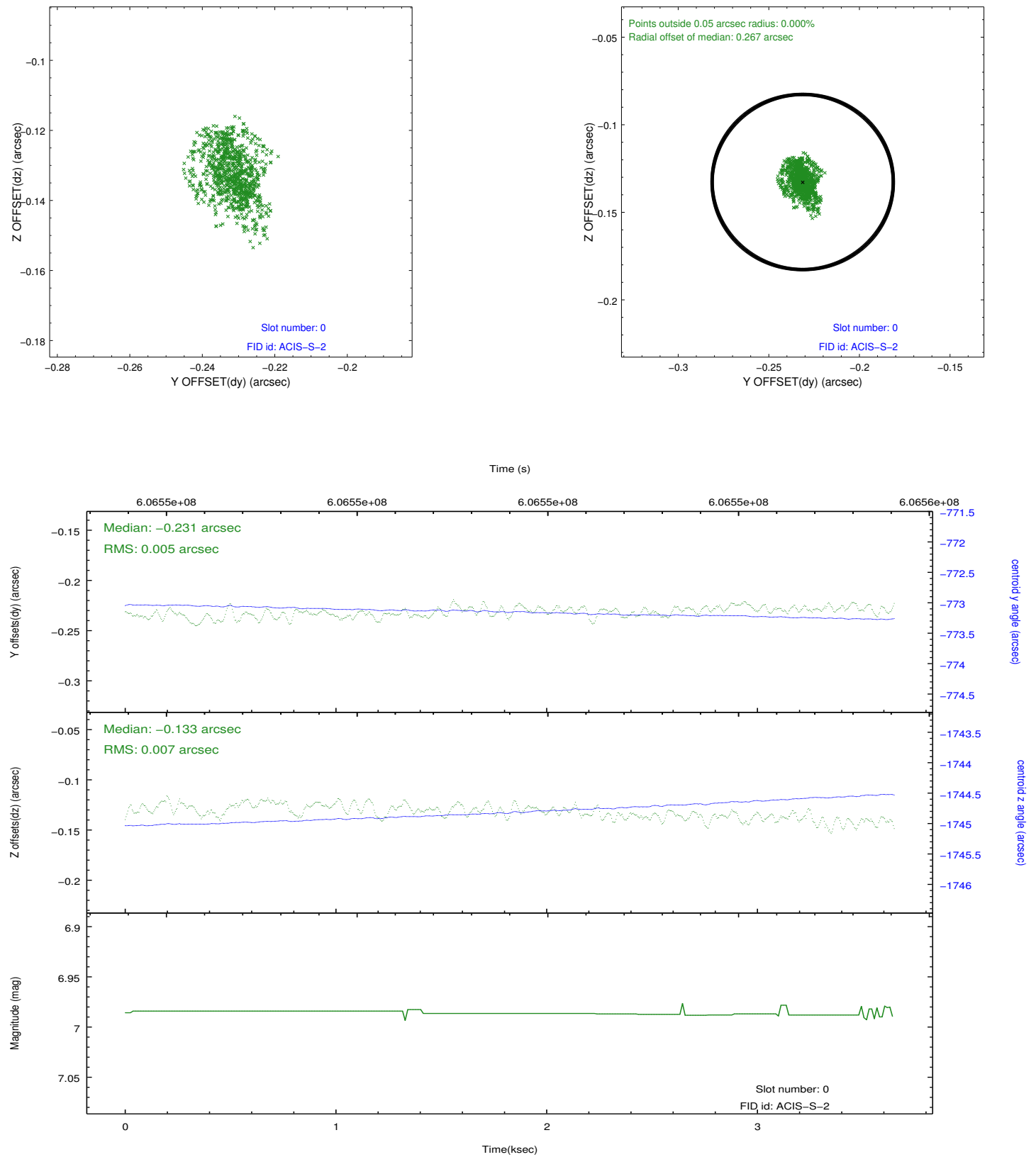


2.4.5 Slot 7

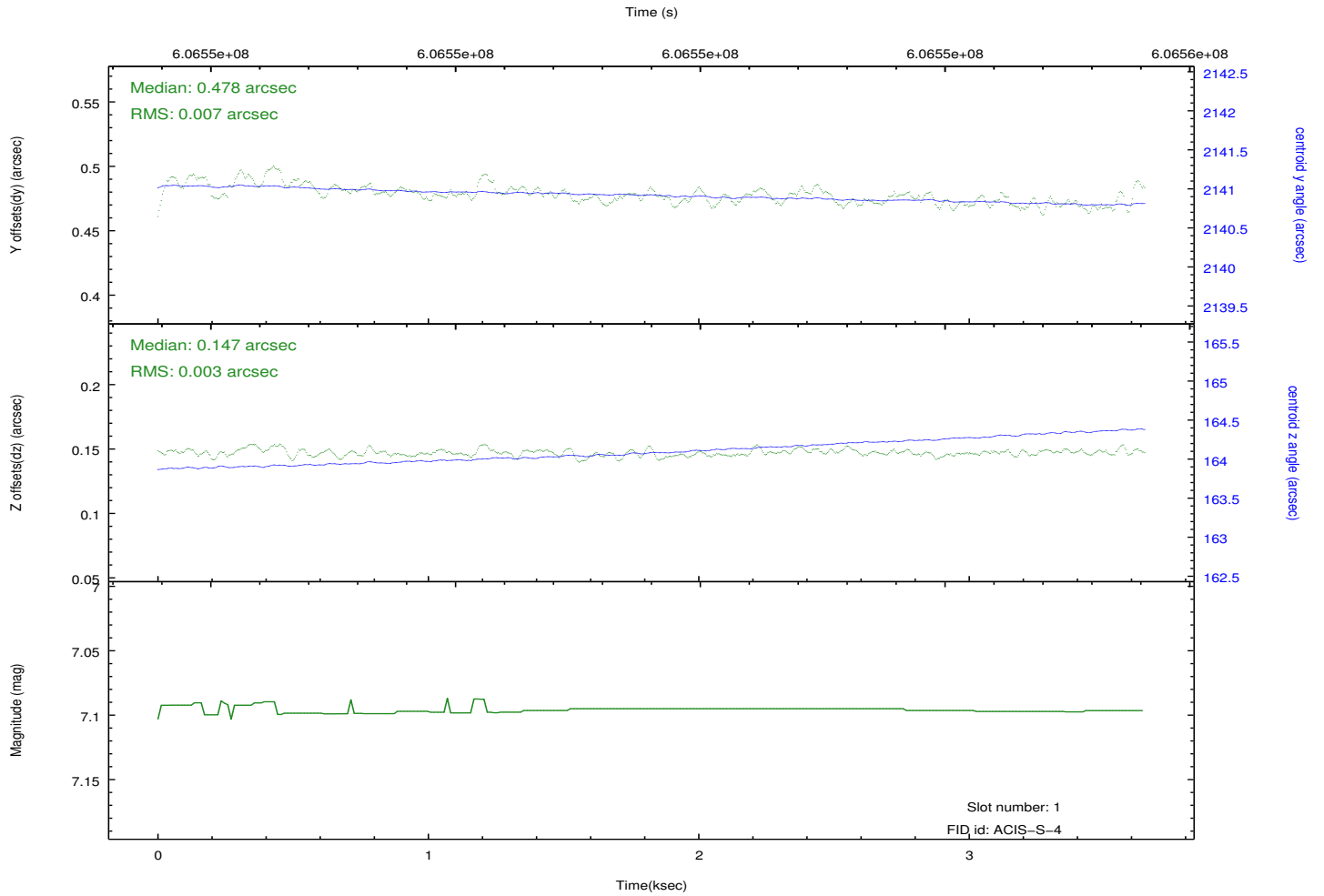
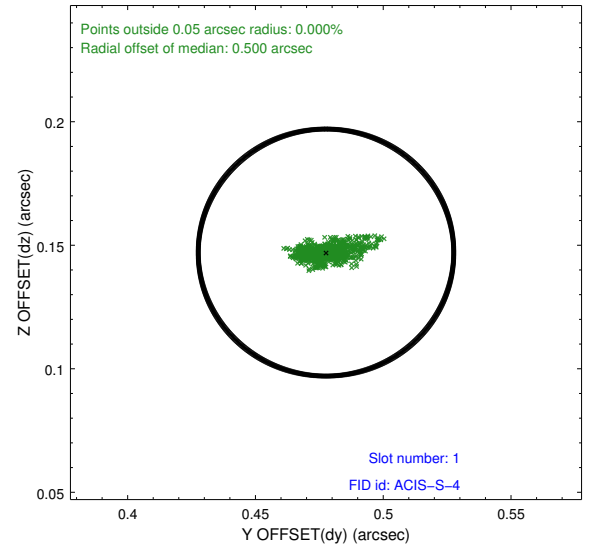
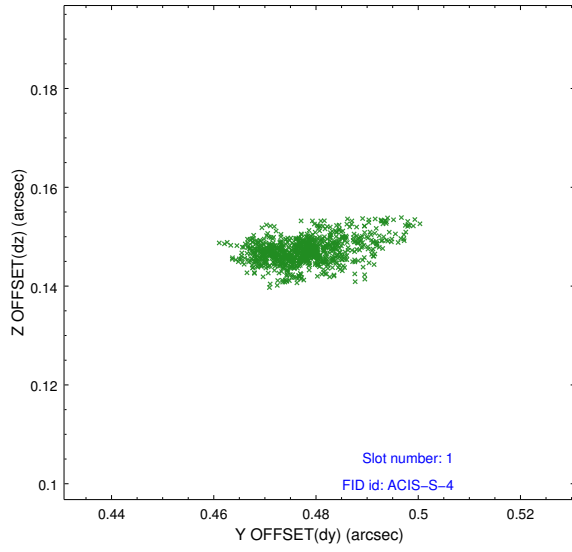


2.5 FID Slots

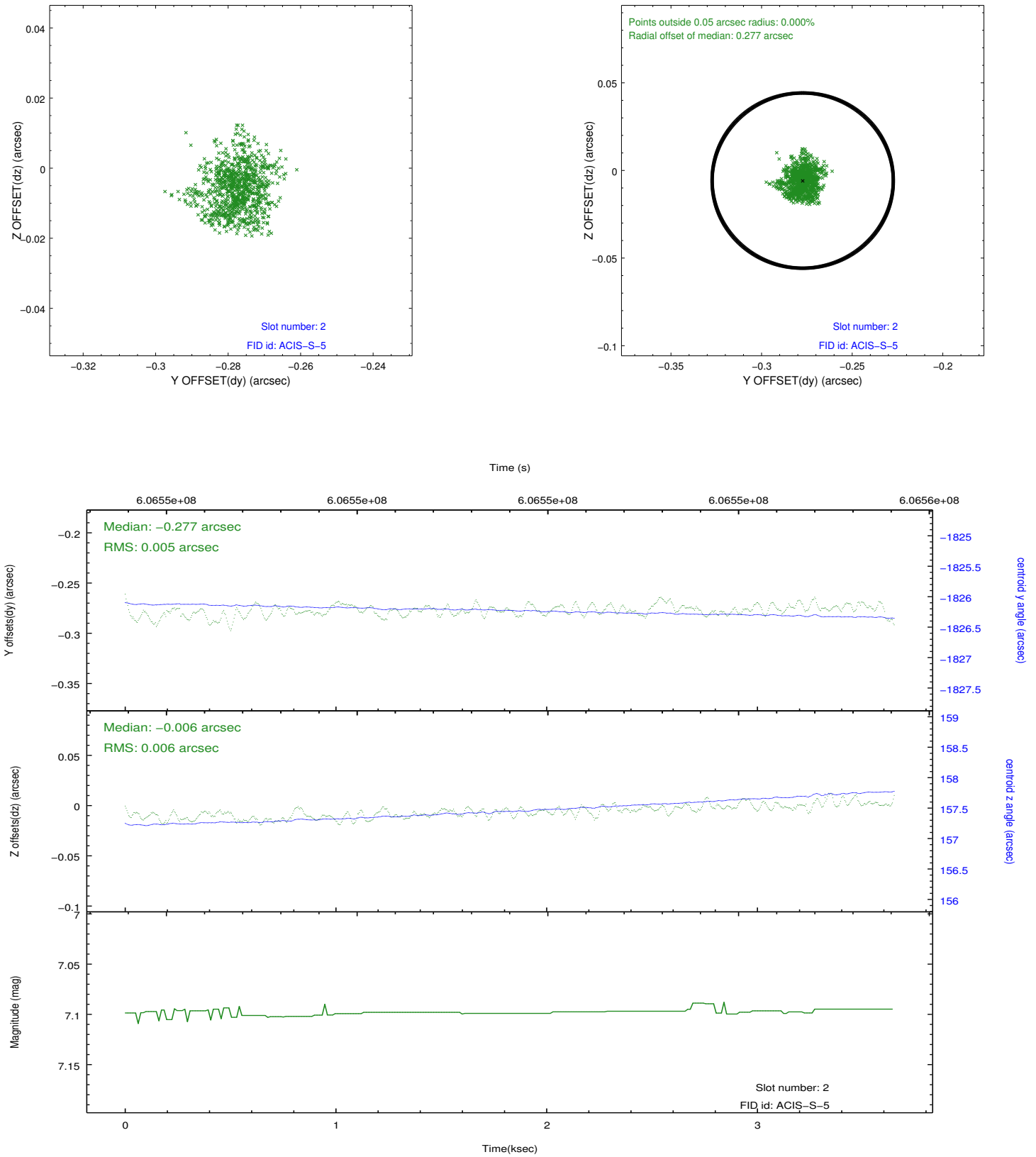
2.5.1 Slot 0



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)	2017.03.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5887001006603

A.2 Comments