



17153 - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and non-leakers

Cycle: 30, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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<i>Name</i>	<i>Institution</i>
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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) J004743+015440	COS/FUV COS/NUV	4	12-Jun-2024 13:00:58.0	yes
02	(2) J012910+145935	COS/FUV COS/NUV	2	12-Jun-2024 13:00:59.0	yes
03	(3) J080425+472607	COS/FUV COS/NUV	3	12-Jun-2024 13:01:00.0	yes
04	(3) J080425+472607	COS/FUV COS/NUV	3	12-Jun-2024 13:01:02.0	yes
05	(4) J081112+414146	COS/FUV COS/NUV	3	12-Jun-2024 13:01:03.0	yes
06	(5) J083440+480541	COS/FUV COS/NUV	4	12-Jun-2024 13:01:04.0	yes
18	(5) J083440+480541	COS/FUV COS/NUV	2	12-Jun-2024 13:01:05.0	yes
07	(6) J090918+392925	COS/FUV COS/NUV	2	12-Jun-2024 13:01:06.0	yes

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22	(6) J090918+392925	COS/FUV COS/NUV	2	12-Jun-2024 13:01:07.0	yes
08	(7) J093355+510925	COS/FUV COS/NUV	2	12-Jun-2024 13:01:08.0	yes
09	(8) J095236+405249	COS/FUV COS/NUV	5	12-Jun-2024 13:01:09.0	yes
10	(9) J103344+635317	COS/FUV COS/NUV	2	12-Jun-2024 13:01:10.0	yes
11	(10) J112848+524509	COS/FUV COS/NUV	3	12-Jun-2024 13:01:11.0	yes
12	(10) J112848+524509	COS/FUV COS/NUV	3	12-Jun-2024 13:01:12.0	yes
13	(11) J115855+312559	COS/FUV COS/NUV	1	12-Jun-2024 13:01:13.0	yes
14	(12) J115959+382422	COS/FUV COS/NUV	2	12-Jun-2024 13:01:14.0	yes
19	(12) J115959+382422	COS/FUV COS/NUV	1	12-Jun-2024 13:01:15.0	yes
15	(13) J120934+305326	COS/FUV COS/NUV	1	12-Jun-2024 13:01:15.0	yes
16	(14) J130559+422638	COS/FUV COS/NUV	5	12-Jun-2024 13:01:17.0	yes
17	(15) J154050+572442	COS/FUV COS/NUV	4	12-Jun-2024 13:01:18.0	yes
20	(15) J154050+572442	COS/FUV COS/NUV	1	12-Jun-2024 13:01:19.0	yes
21	(15) J154050+572442	COS/FUV COS/NUV	1	12-Jun-2024 13:01:19.0	yes

56 Total Orbits Used

ABSTRACT

Determining the contribution of galaxies to cosmic reionization is one of the most pressing challenges of modern observational cosmology. Because the IGM is optically thick to ionizing radiation (LyC) during the epoch of reionization, indirect LyC escape probes are needed. Recent reionization studies have used indirect LyC tracers calibrated on samples that do not fully represent the diversity of the LyC emitters population. Here we propose 49 orbits of HST-COS observations to obtain high resolution spectra of the most promising LyC tracer, the Lyman Alpha (Ly α) emission, for 15 galaxies with rigorous LyC constraints selected from the new Low-Redshift Lyman Continuum Survey (LzLCS). Our targets will complete an existing archival sample of 31 galaxies, sampling the full range of possible high redshift LyC escape fractions. By assessing whether the Ly α profiles of non/weak LyC leakers are observationally distinguishable from those of moderate leakers, our observations will test if Ly α can distinguish between galaxies that could and could not have reionized the universe. The large LyC escape fraction dynamical range of our complete sample of LyC leakers and nonleakers will investigate if the large scatter observed between the Ly α profile and escape fractions in the archival sample can be explained by a spread in other physical parameters. This proposal will also validate other indirect tracers by comparing the Ly α and Mg II profiles with radiative transfer models. Our observations will establish a definitive sample of indirect LyC probes that the James Webb Space Telescope urgently needs to unveil the sources of cosmic reionization.

OBSERVING DESCRIPTION

The Lyman alpha (Ly α) spectra from the actual LzLCS survey obtained with the HST-COS G140L grism are at too low spectral resolution to resolve the Ly α profiles into expected double peak. To complement the existing high resolution Ly α archival sample, we propose to obtain FUV spectroscopy of 15 galaxies spanning a large range of LyC escape fraction, hereafter, $f_{\text{esc}}(\text{LyC})$. We will use COS and the G160M grism to measure the Ly α line profiles (all objects show Ly α emission in the low-resolution G140L spectra). The central wavelengths are chosen to optimize the signal-to-noise (S/N) and ensure that the Ly α does not fall in the detector gaps. COS+G160M is the only combination that provides the sensitive, high-resolution FUV spectroscopy needed for this project.

The 15 new targets are taken from the LzLCS survey. They were selected to complement the existing archival sample of objects with high resolution Ly α spectra in the low (<1%), moderate (1-10%) and high (>10%) $f_{\text{esc}}(\text{LyC})$ range. We selected the 5 strongest LzLCS LyC emitters for their uniqueness, since there are only few objects known so far with higher escape fraction. We selected 6 LzLCS non-leakers with stringent $f_{\text{esc}}(\text{LyC})$ upper limits and 3 weak LyC leakers (<1%), doubling the size of the zero/low $f_{\text{esc}}(\text{LyC})$ sample with high resolution Ly α data. In the moderate

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fesc(LyC) range, we selected 4 LzLCS galaxies. Our sample was chosen to (i) include LyC leakers and non-leakers, (ii) have Ly α observable in less than 6 HST orbits, and (iii) preserve the diversity observed in the parent LzLCS sample in terms of Ly α EW, O32 and Ha EW.

The exposure times are estimated using COS ETC (v30.2) in the FUV spectroscopic mode for the G160M grating. The effective resolution will be lower for more extended galaxies. From available COS NUV imaging, however, we find that the majority of our targets are compact, with half light radii $< 0.2''$. The effective spectral resolution achieved for a source of $0.3''$ will typically be $R \sim 10000$ (corresponding to ~ 30 km/s), sufficient for the analysis of the Ly α profile (Henry et al. 2015). The Ly α flux ranges from 7×10^{-15} up to 49×10^{-15} erg/s/cm 2 and have been measured from the publicly available LzLCS G140L observations (Flury et al. 2022). The galaxies are between $0.219 < z < 0.364$, corresponding to Ly α at observed wavelengths between 1587 and 1659 Å. In the ETC we assumed a FWHM of the Ly α line of 3 Å (e.g., Henry et al. 2015; Yang et al. 2017). With an exposure time between 1158 and 13476s, we reach a $S/N = 10$ per resolution element at the line peak position. This S/N is sufficient to measure the peak separations in Ly α profiles from archival samples. All targets have already been observed with COS and pass the COS bright object check.

The target acquisition will follow the successful strategy used in the LzLCS program (15626). We will obtain acquisition images in the ACQ/IMAGE mode with Mirror A. The calculation of the acquisition exposure times is based on the LzLCS program calculations (ETC for a S/N of 40, assuming a point-like source). We divide the LzLCS values by a factor $1/2^2$ to obtain a $S/N=20$ (between 12 and 215s).

We follow the COS handbook guidelines to determine the buffer times. We first calculate the buffer time from the spectroscopic ETC and GALEX FUV magnitude and multiply by $2/3$. For all our targets, this re-scaled buffer time is longer than an individual FP-POS exposure and longer than 110 seconds. As recommended by the COS handbook, we therefore adopt the ETC buffer time multiplied by $2/3$.

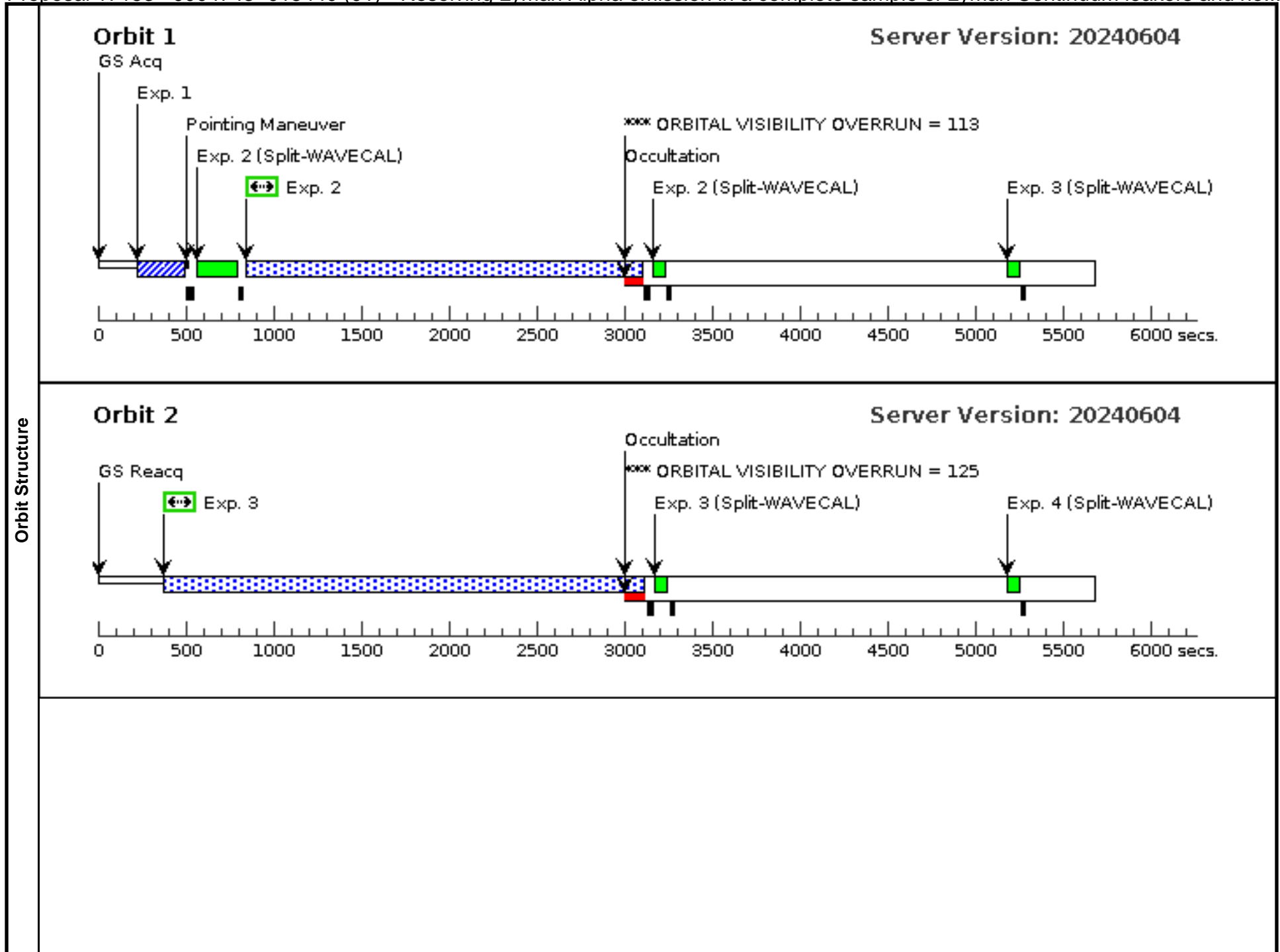
We attempt to schedule all of the objects in 2-3 orbit visits. Galaxies that require more than 3 orbits and can also have their science carried out in multiple visits, have been broken up into multiple visits. There are two galaxies (J083440+480541 and J130559+422638) which cannot achieve the required sensitivity in multiple orbits, thus we schedule them as single 4 and 5 orbit visits, respectively. Our spectra requiring $S/N < 20$, we use at least 3 FP-POS per configuration and per visit.

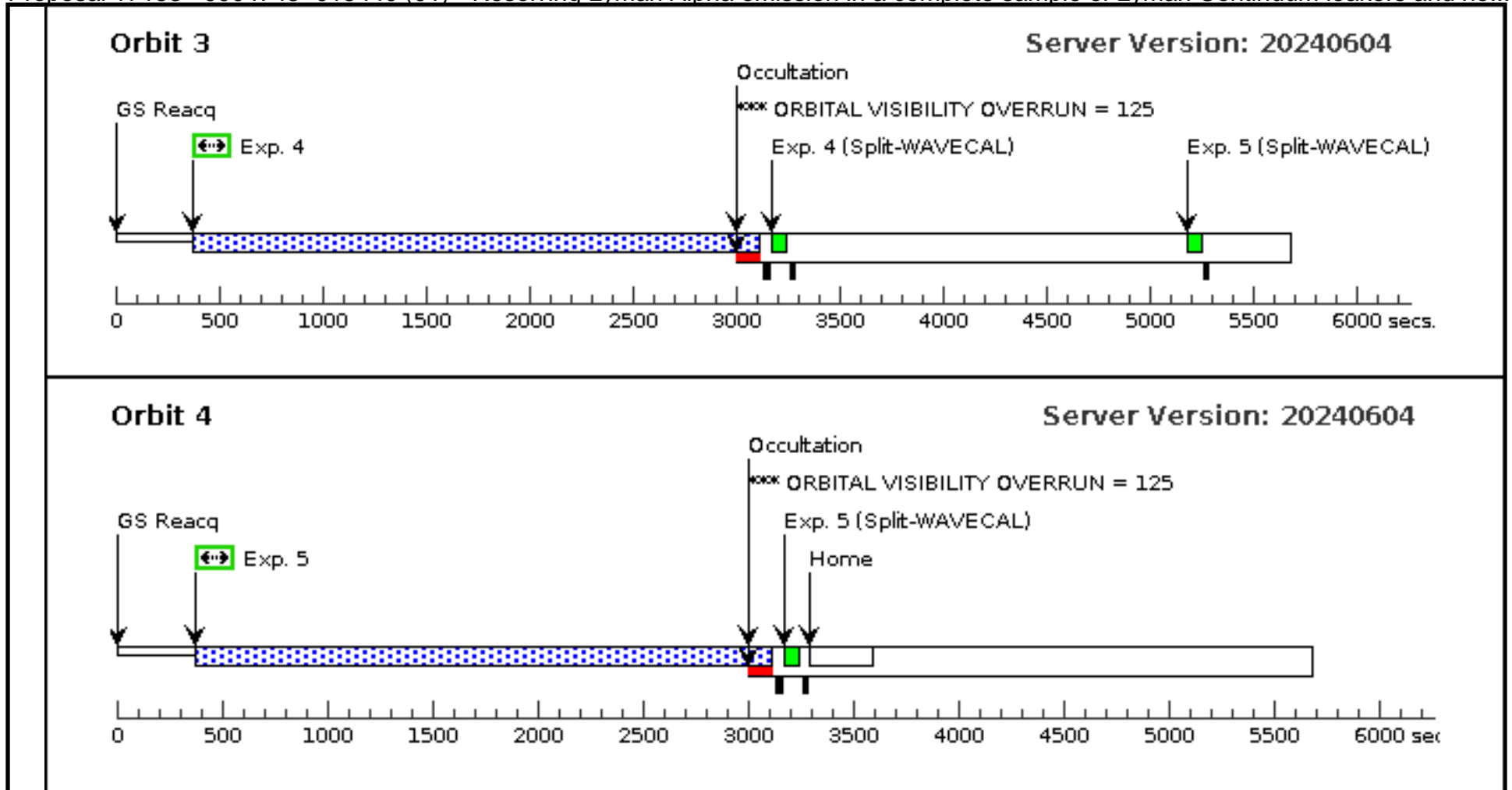
Reduced-gyro operations will impact the Lyman alpha fluxes of our targets leading to larger flux uncertainties that will moderately impact the science goals of our program. Moreover, the fact that not all orientations will be possible is not an issue because we do not have position angle restriction.

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Visit	Proposal 17153, J004743+015440 (01), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																					
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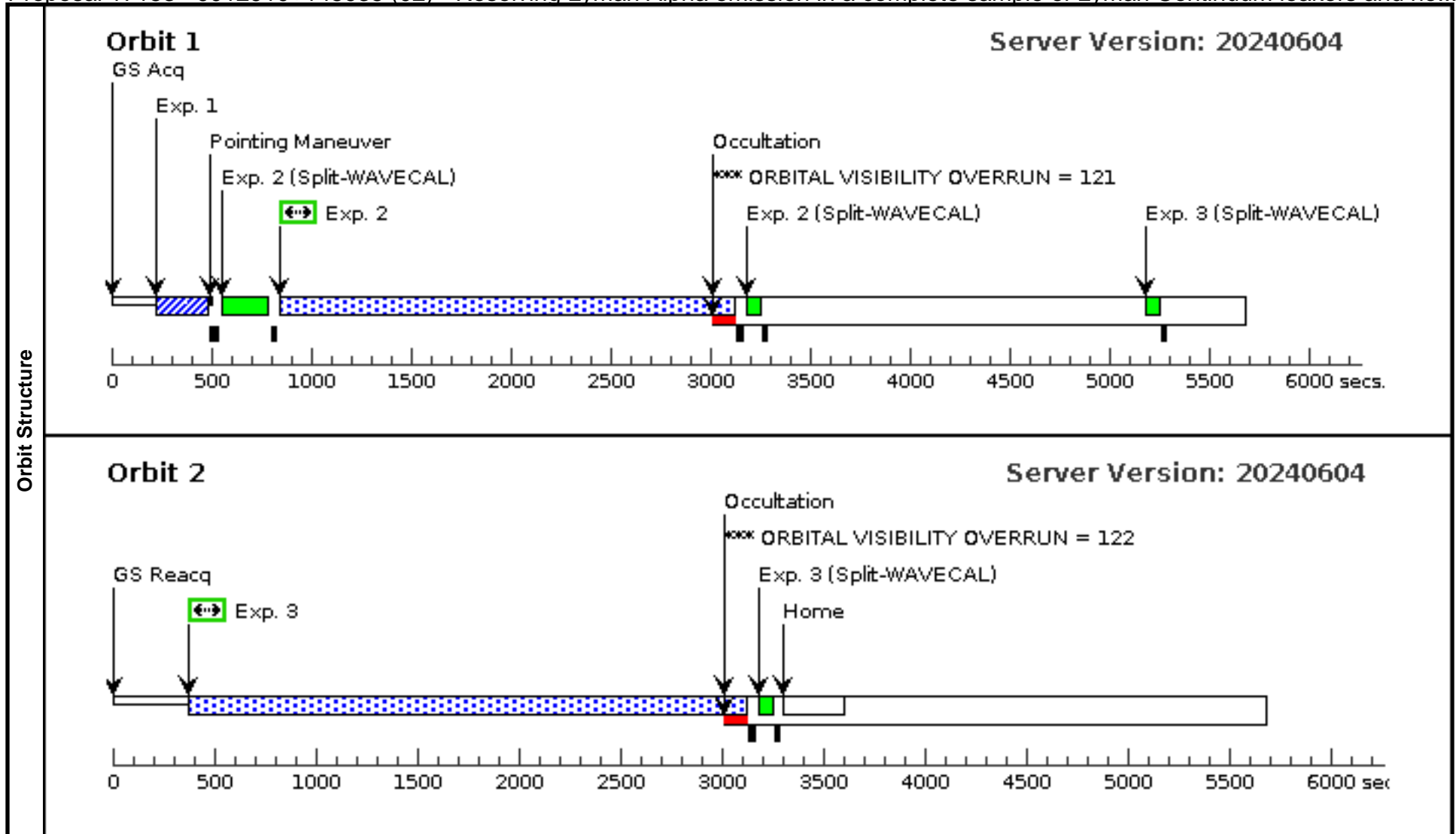




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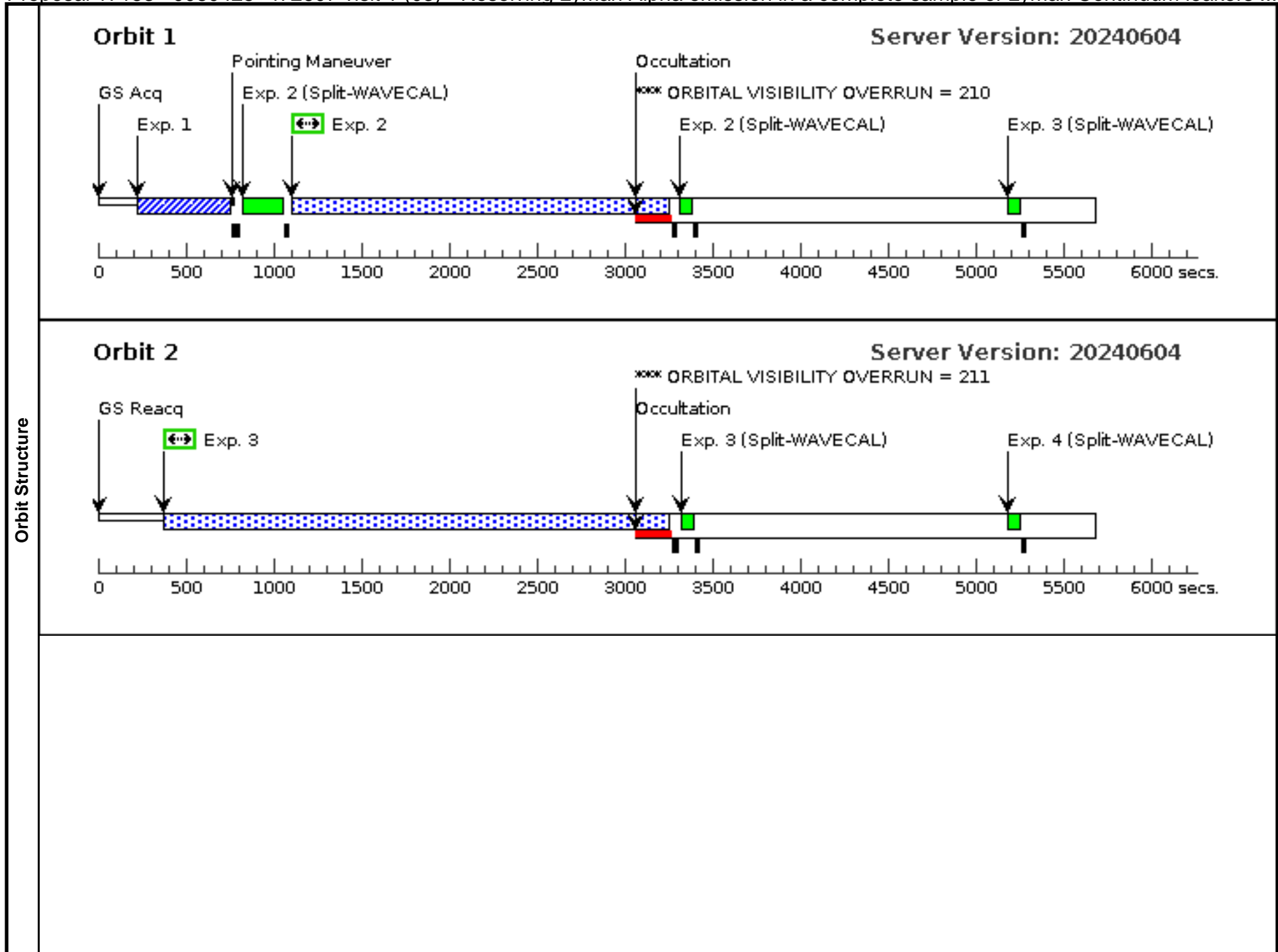
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2	J012910+145935 science 1 (COS.sp.1813093)	(2) J012910+145935	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=19884			2000 Secs (2230 Secs) [==>2230.0 Secs]	[1]																																				
3	J012910+145935 science 2 (COS.sp.1813093)	(2) J012910+145935	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; BUFFER-TIME=19884			944 Secs (2697 Secs) [==>2697.0 Secs]	[2]																																				

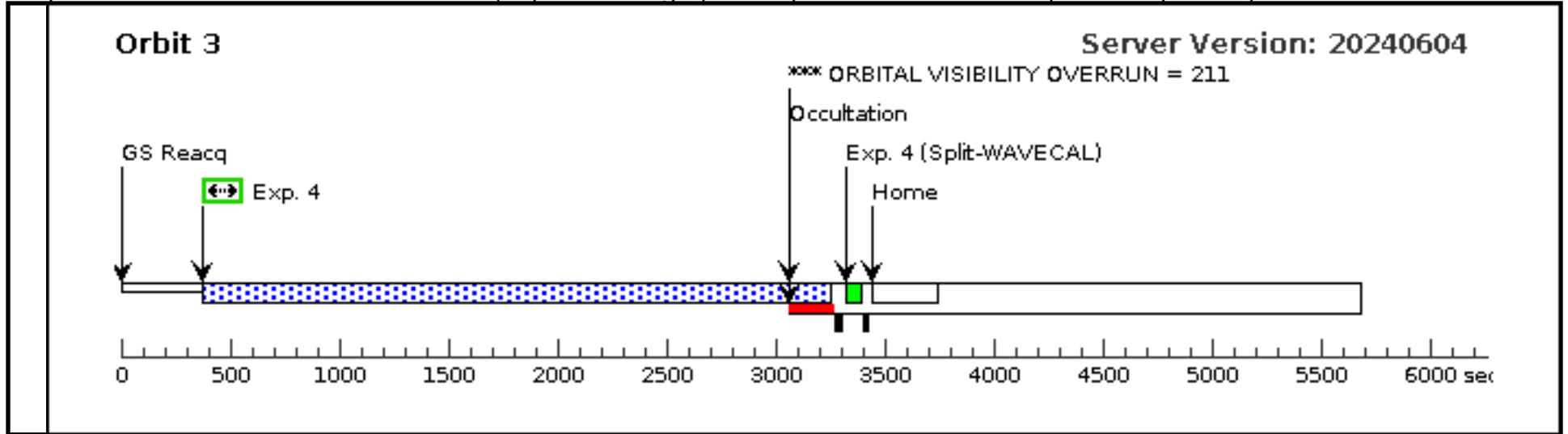


Proposal 17153 - J080425+472607 visit 1 (03) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers ...

Wed Jun 12 17:01:20 GMT 2024

Visit	Proposal 17153, J080425+472607 visit 1 (03), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: J080425+472607 requires 6 orbits. Thus, we split the object up into two visits.</i>									
	Diagnosics (J080425+472607 visit 1 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J080425+472607 visit 1 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J080425+472607 visit 1 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous	(3) J080425+472607 RA: 08 04 25.1052 (121.1046050d) Dec: +47 26 6.63 (47.43517d) Equinox: J2000 Redshift: 0.35653020 V=21.63 FUV=22.21, NUV=22.52 Reference Frame: ICRS								
	<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO									
Exposures	# Label (ETC Run) Target Config,Mode,Aperture Spectral Els. Opt. Params. Special Reqs. Groups Exp. Time (Total)/[Actual Dur.] Orbit									
	1	J080425+472607 acquisition (COS.ta.1297637)	(3) J080425+472607	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				158 Secs (158 Secs) [==>]	[1]
	2	J080425+472607 science 1 (COS.sp.1819075)	(3) J080425+472607	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=21032; FP-POS=1			900 Secs (2101 Secs) [==>2101.0 Secs]	[1]
	3	J080425+472607 science 2 (COS.sp.1819075)	(3) J080425+472607	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=21032; FP-POS=2			1000 Secs (2833 Secs) [==>2833.0 Secs]	[2]
	4	J080425+472607 science 3 (COS.sp.1819075)	(3) J080425+472607	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=21032; FP-POS=4			1000 Secs (2833 Secs) [==>2833.0 Secs]	[3]

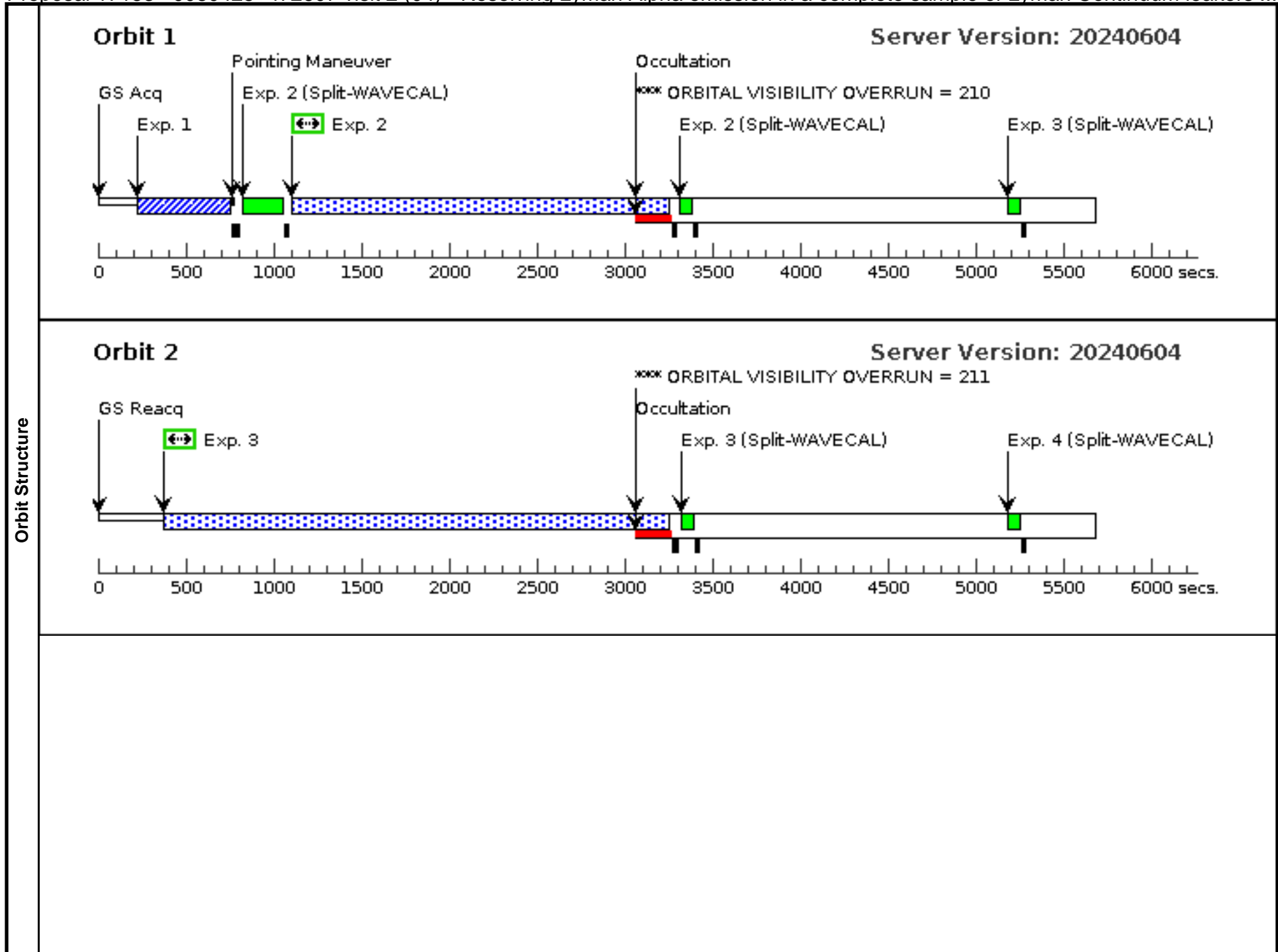


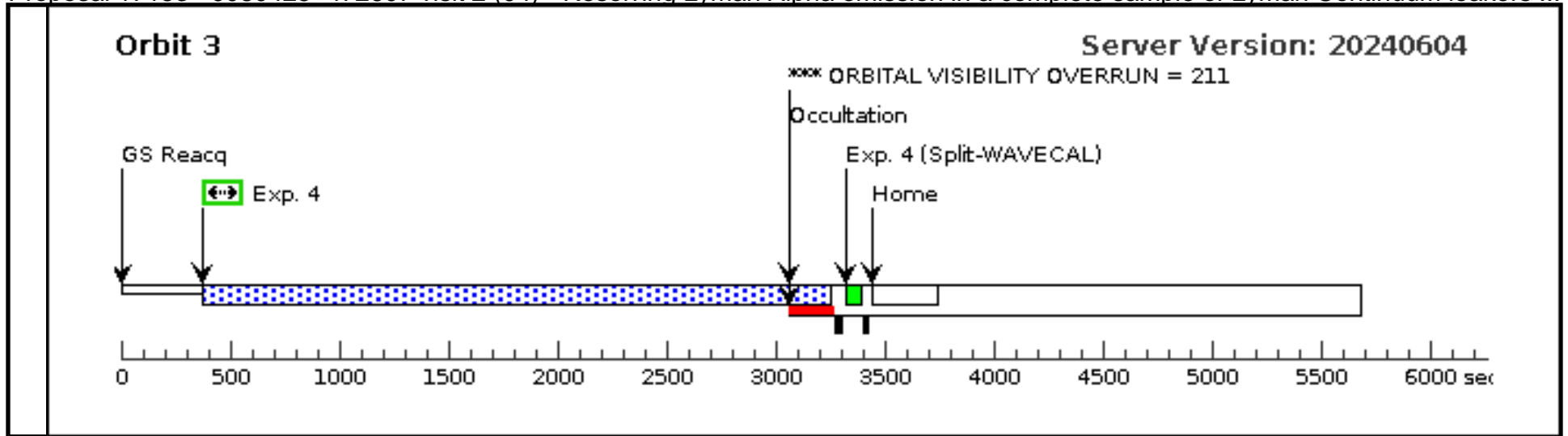


Proposal 17153 - J080425+472607 visit 2 (04) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers ...

Wed Jun 12 17:01:20 GMT 2024

Visit	Proposal 17153, J080425+472607 visit 2 (04), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: J080425+472607 requires 6 orbits. Thus, we split the object up into two visits.</i>					
	Diagnosics (J080425+472607 visit 2 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J080425+472607 visit 2 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J080425+472607 visit 2 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous	(3) J080425+472607 RA: 08 04 25.1052 (121.1046050d) Dec: +47 26 6.63 (47.43517d) Equinox: J2000	Redshift: 0.35653020 V=21.63 FUV=22.21, NUV=22.52	Reference Frame: ICRS		
	<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO					
Exposures	# Label (ETC Run) Target Config,Mode,Aperture Spectral Els. Opt. Params. Special Reqs. Groups Exp. Time (Total)/[Actual Dur.] Orbit	1 J080425+472607 acquisition (COS.ta.1297637) (3) J080425+472607 COS/NUV, ACQ/IMAGE, PSA MIRRORA	158 Secs (158 Secs) [==>]	[1]		
	2 J080425+472607 science 1 (COS.sp.1819075)	(3) J080425+472607 COS/FUV, TIME-TAG, PSA G160M 1577 A BUFFER-TIME=21032; FP-POS=1	900 Secs (2101 Secs) [==>2101.0 Secs]	[1]		
	3 J080425+472607 science 2 (COS.sp.1819075)	(3) J080425+472607 COS/FUV, TIME-TAG, PSA G160M 1577 A BUFFER-TIME=21032; FP-POS=3	1000 Secs (2833 Secs) [==>2833.0 Secs]	[2]		
	4 J080425+472607 science 3 (COS.sp.1819075)	(3) J080425+472607 COS/FUV, TIME-TAG, PSA G160M 1577 A BUFFER-TIME=21032; FP-POS=4	1000 Secs (2833 Secs) [==>2833.0 Secs]	[3]		

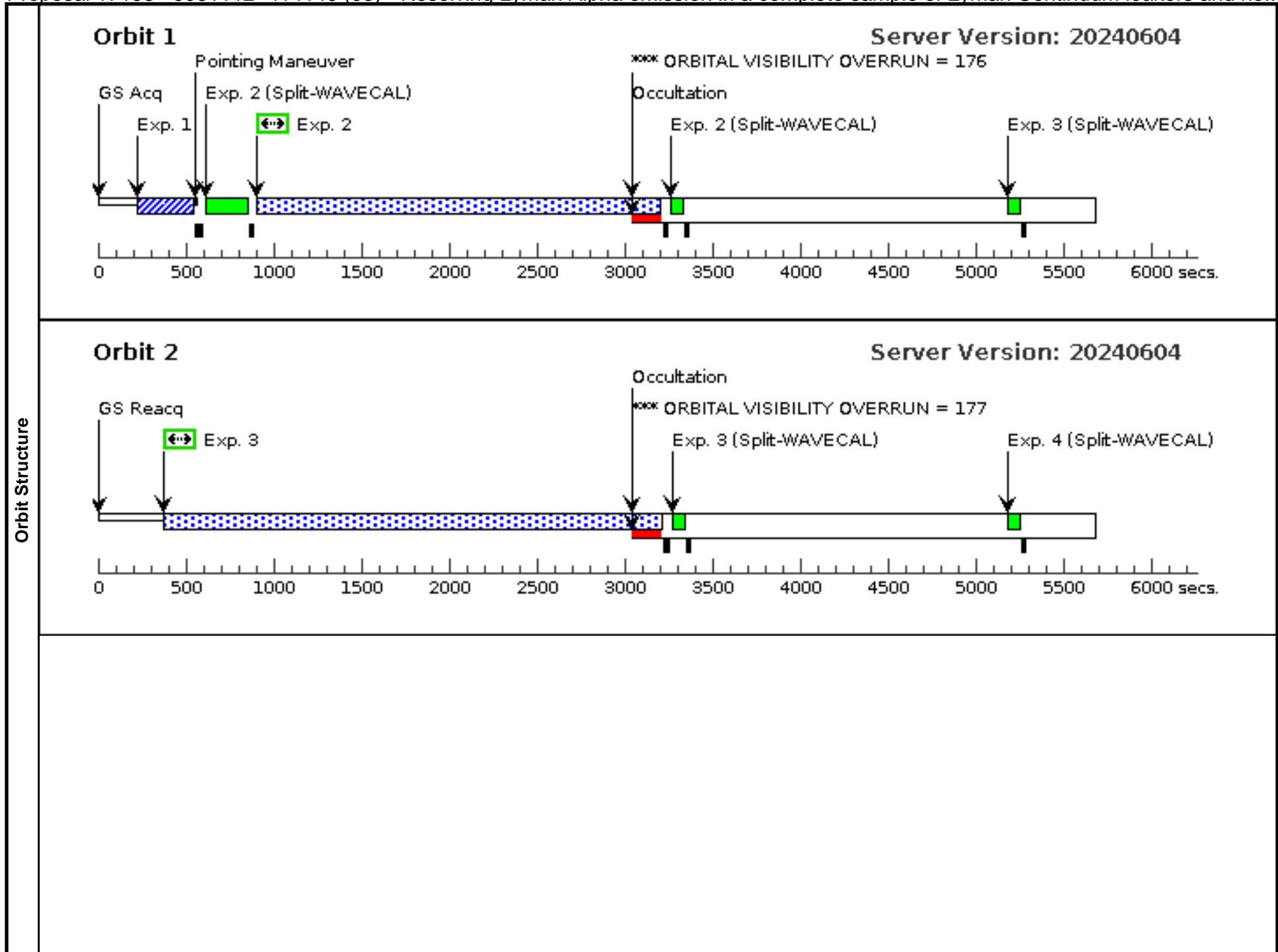


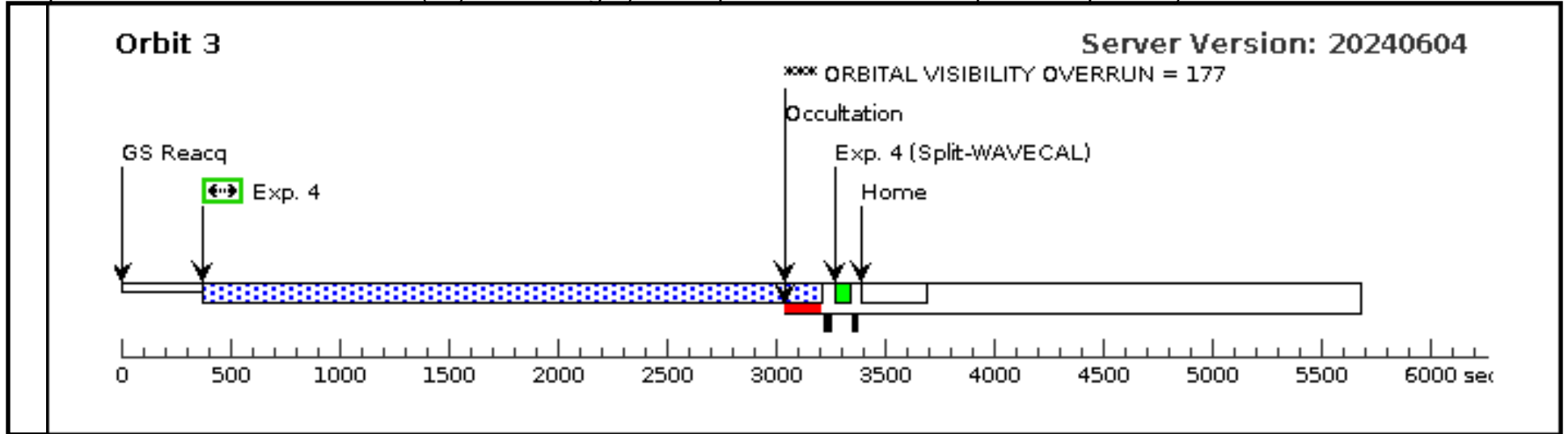


Proposal 17153 - J081112+414146 (05) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:20 GMT 2024

Visit	Proposal 17153, J081112+414146 (05), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(J081112+414146 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J081112+414146 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J081112+414146 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	J081112+414146	RA: 08 11 12.0406 (122.8001692d) Dec: +41 41 45.92 (41.69609d) Equinox: J2000	Redshift: 0.33313810	V=20.13 FUV=22.21, NUV=21.25	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J081112+414146 acquisition (COS.ta.1297772)	(4) J081112+414146	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				53 Secs (53 Secs) [==>]	[1]
	2	J081112+414146 science 1 (COS.sp.1813111)	(4) J081112+414146	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 964; FP-POS=1			2000 Secs (2253 Secs) [==>2253.0 Secs]	[1]
	3	J081112+414146 science 2 (COS.sp.1813111)	(4) J081112+414146	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 964; FP-POS=2			2500 Secs (2786 Secs) [==>2786.0 Secs]	[2]
	4	J081112+414146 science 3 (COS.sp.1813111)	(4) J081112+414146	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 964; FP-POS=4			2500 Secs (2786 Secs) [==>2786.0 Secs]	[3]

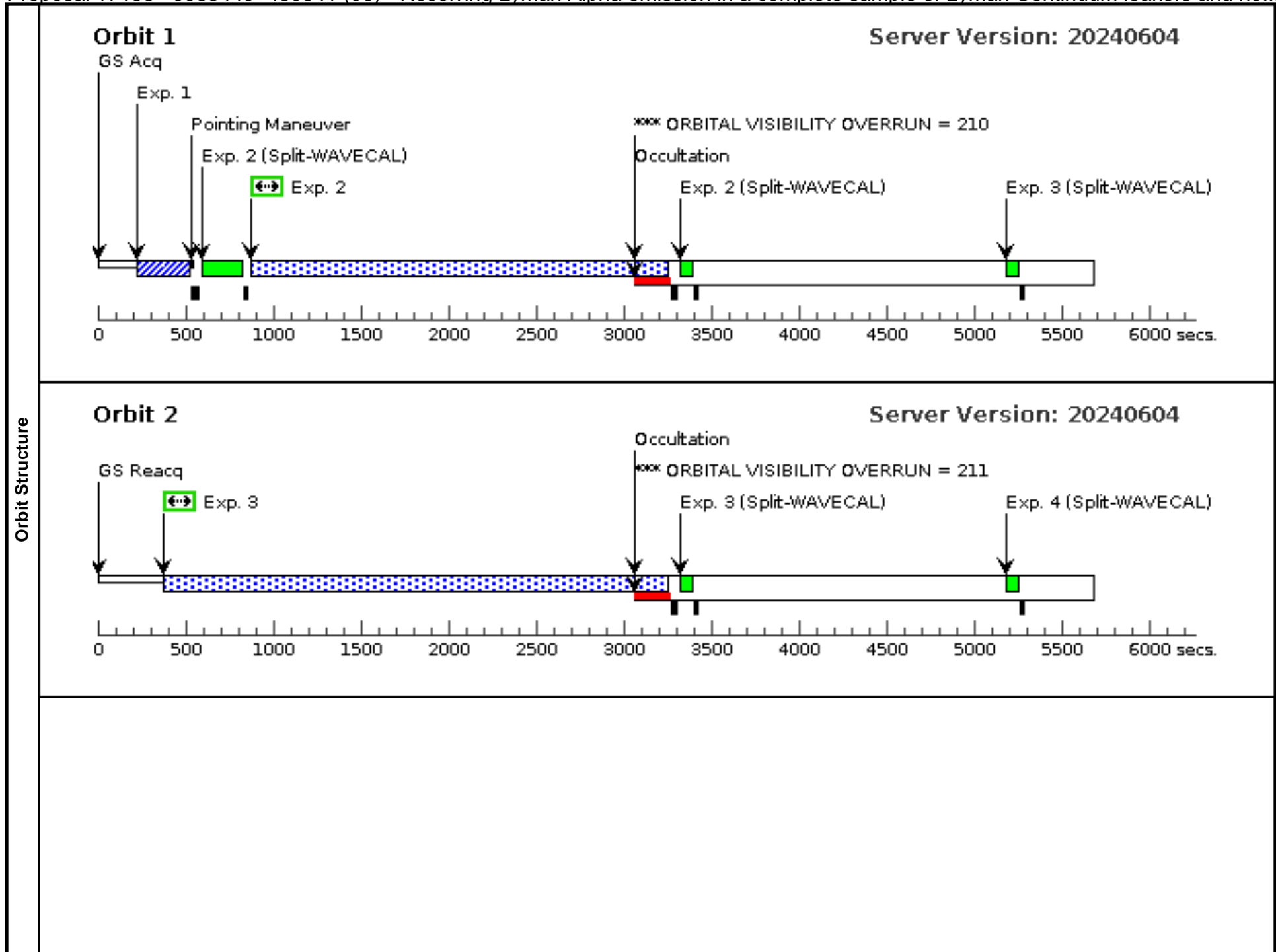


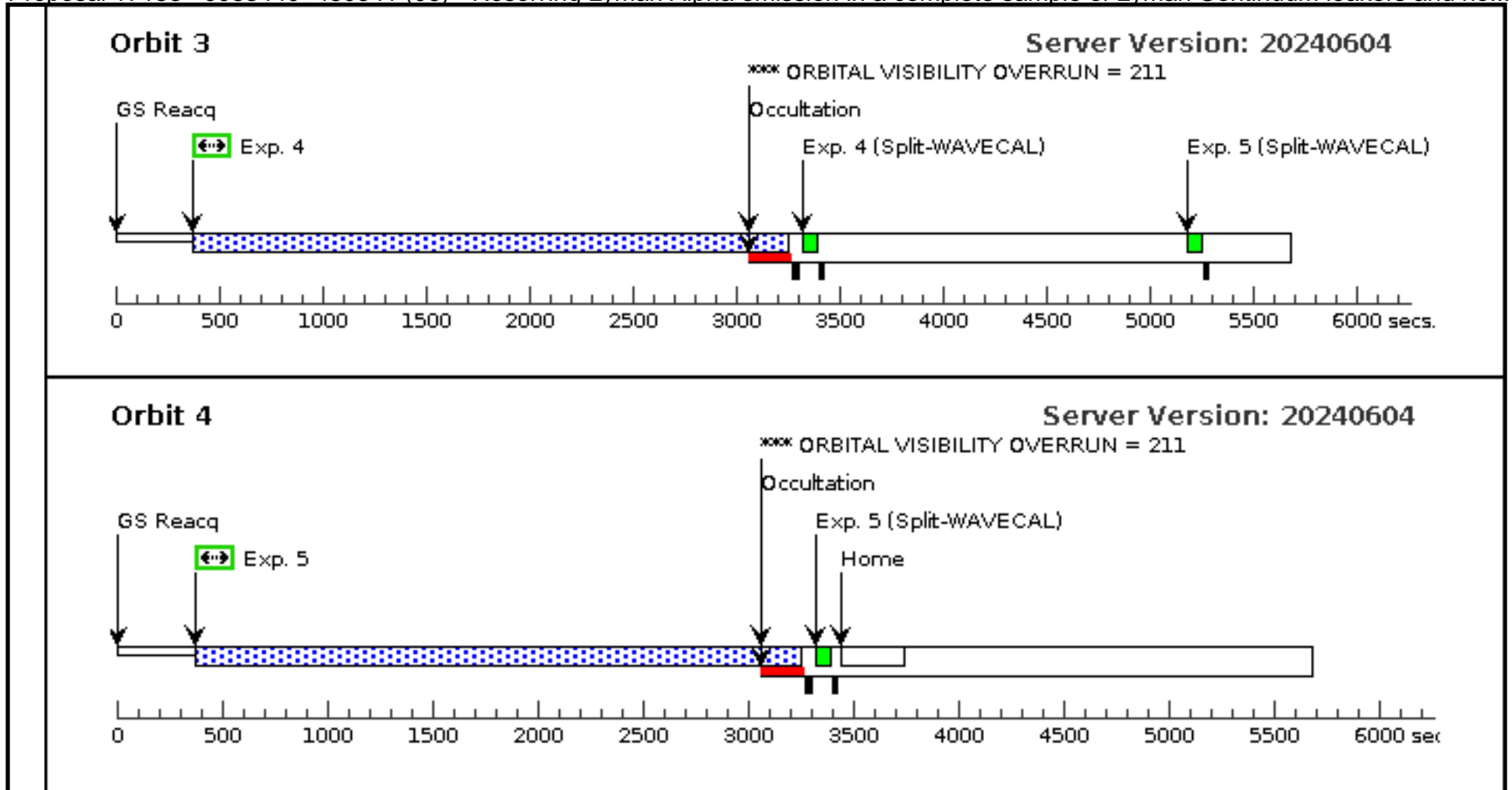


Proposal 17153 - J083440+480541 (06) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:20 GMT 2024

Visit	Proposal 17153, J083440+480541 (06), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																				
	Diagnosics (J083440+480541 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J083440+480541 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J083440+480541 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J083440+480541 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																				
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>J083440+480541</td> <td>RA: 08 34 40.0560 (128.6669000d) Dec: +48 05 40.91 (48.09470d) Equinox: J2000</td> <td>Redshift: 0.34257430</td> <td>V=19.60 FUV=20.83, NUV=20.84</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	J083440+480541	RA: 08 34 40.0560 (128.6669000d) Dec: +48 05 40.91 (48.09470d) Equinox: J2000	Redshift: 0.34257430	V=19.60 FUV=20.83, NUV=20.84	Reference Frame: ICRS																																															
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																															
(5)	J083440+480541	RA: 08 34 40.0560 (128.6669000d) Dec: +48 05 40.91 (48.09470d) Equinox: J2000	Redshift: 0.34257430	V=19.60 FUV=20.83, NUV=20.84	Reference Frame: ICRS																																																																
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>J083440+480541 acquisition (COS.ta.1297768)</td> <td>(5) J083440+480541</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORA</td> <td></td> <td></td> <td></td> <td>42 Secs (42 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>J083440+480541 science 1 (COS.sp.1825754)</td> <td>(5) J083440+480541</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1577 A</td> <td>BUFFER-TIME=20 014; FP-POS=1</td> <td></td> <td></td> <td>935 Secs (2333 Secs) [==>2333.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>J083440+480541 science 2 (COS.sp.1825754)</td> <td>(5) J083440+480541</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1577 A</td> <td>BUFFER-TIME=20 014; FP-POS=2</td> <td></td> <td></td> <td>935 Secs (2833 Secs) [==>2833.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>J083440+480541 science 3 (COS.sp.1825754)</td> <td>(5) J083440+480541</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1577 A</td> <td>BUFFER-TIME=20 014; FP-POS=3</td> <td></td> <td></td> <td>1175 Secs (2833 Secs) [==>2833.0 Secs]</td> <td>[3]</td> </tr> <tr> <td>5</td> <td>J083440+480541 science 4 (COS.sp.1825754)</td> <td>(5) J083440+480541</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1577 A</td> <td>BUFFER-TIME=20 014; FP-POS=4</td> <td></td> <td></td> <td>1175 Secs (2833 Secs) [==>2833.0 Secs]</td> <td>[4]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	J083440+480541 acquisition (COS.ta.1297768)	(5) J083440+480541	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				42 Secs (42 Secs) [==>]	[1]	2	J083440+480541 science 1 (COS.sp.1825754)	(5) J083440+480541	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 014; FP-POS=1			935 Secs (2333 Secs) [==>2333.0 Secs]	[1]	3	J083440+480541 science 2 (COS.sp.1825754)	(5) J083440+480541	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 014; FP-POS=2			935 Secs (2833 Secs) [==>2833.0 Secs]	[2]	4	J083440+480541 science 3 (COS.sp.1825754)	(5) J083440+480541	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 014; FP-POS=3			1175 Secs (2833 Secs) [==>2833.0 Secs]	[3]	5	J083440+480541 science 4 (COS.sp.1825754)	(5) J083440+480541	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 014; FP-POS=4			1175 Secs (2833 Secs) [==>2833.0 Secs]	[4]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																												
1	J083440+480541 acquisition (COS.ta.1297768)	(5) J083440+480541	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				42 Secs (42 Secs) [==>]	[1]																																																												
2	J083440+480541 science 1 (COS.sp.1825754)	(5) J083440+480541	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 014; FP-POS=1			935 Secs (2333 Secs) [==>2333.0 Secs]	[1]																																																												
3	J083440+480541 science 2 (COS.sp.1825754)	(5) J083440+480541	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 014; FP-POS=2			935 Secs (2833 Secs) [==>2833.0 Secs]	[2]																																																												
4	J083440+480541 science 3 (COS.sp.1825754)	(5) J083440+480541	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 014; FP-POS=3			1175 Secs (2833 Secs) [==>2833.0 Secs]	[3]																																																												
5	J083440+480541 science 4 (COS.sp.1825754)	(5) J083440+480541	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 014; FP-POS=4			1175 Secs (2833 Secs) [==>2833.0 Secs]	[4]																																																												

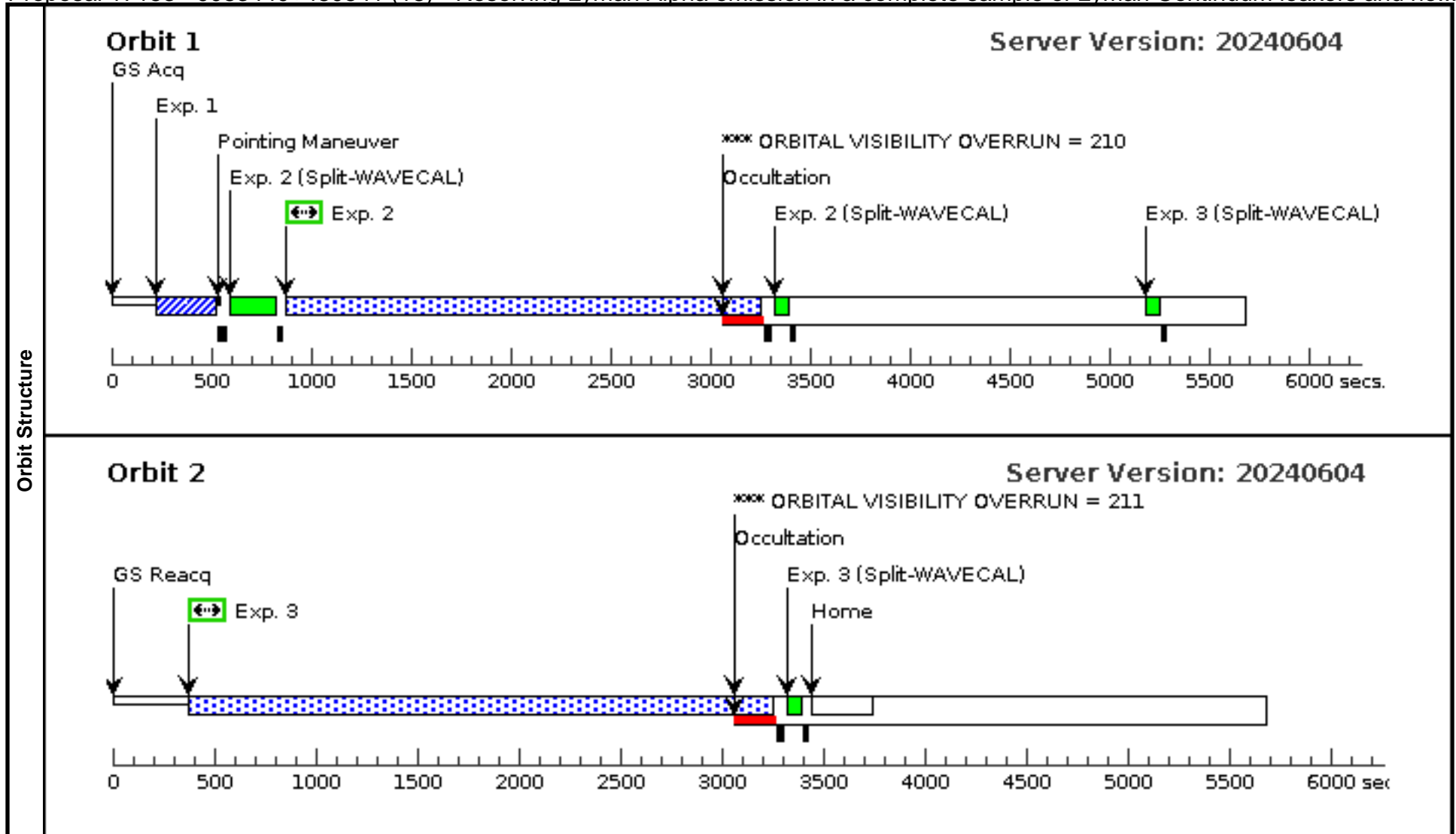




Proposal 17153 - J083440+480541 (18) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:20 GMT 2024

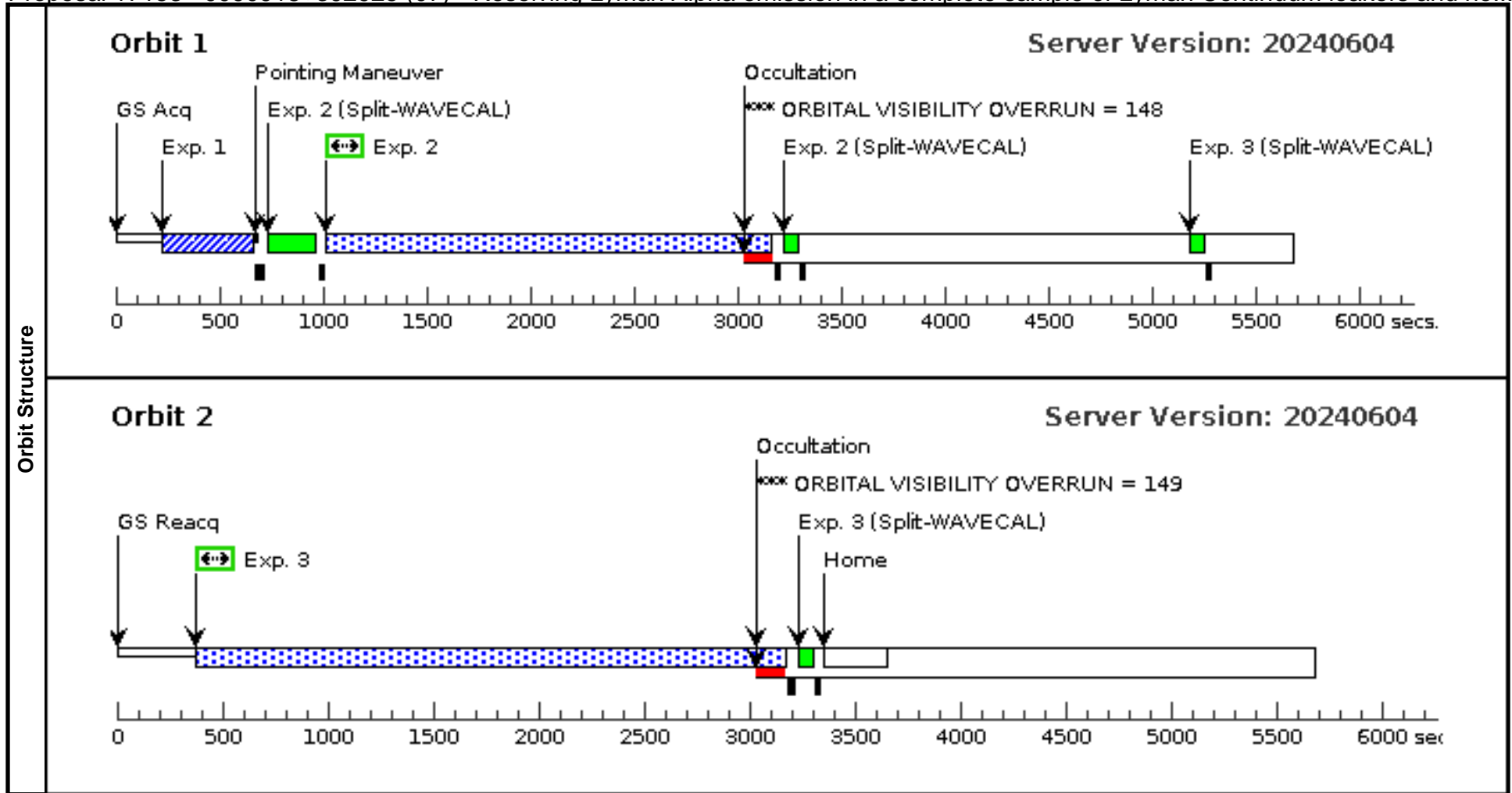
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Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	J083440+480541	RA: 08 34 40.0560 (128.6669000d) Dec: +48 05 40.91 (48.09470d) Equinox: J2000	Redshift: 0.34257430	V=19.60 FUV=20.83, NUV=20.84	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J083440+480541 acquisition (COS.ta.1297768)	(5) J083440+480541	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				42 Secs (42 Secs) [==>]	[1]
	2	J083440+480541 science 1 (COS.sp.1825754)	(5) J083440+480541	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 014; FP-POS=1			935 Secs (2333 Secs) [==>2333.0 Secs]	[1]
	3	J083440+480541 science 4 (COS.sp.1825754)	(5) J083440+480541	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 014; FP-POS=4			1175 Secs (2833 Secs) [==>2833.0 Secs]	[2]



Proposal 17153 - J090918+392925 (07) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:20 GMT 2024

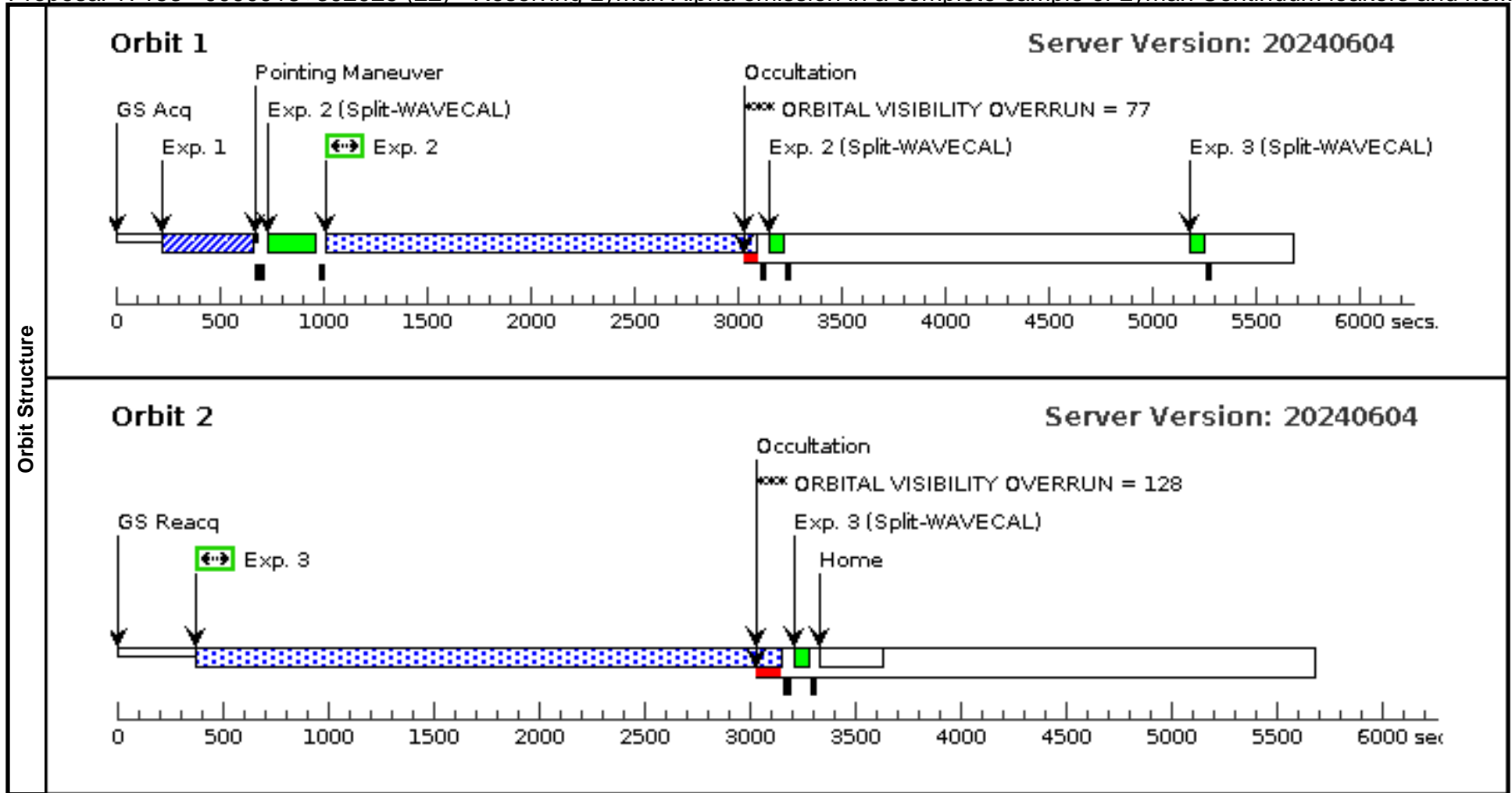
Visit	Proposal 17153, J090918+392925 (07), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(J090918+392925 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J090918+392925 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	J090918+392925	RA: 09 09 18.3643 (137.3265179d) Dec: +39 29 24.74 (39.49021d) Equinox: J2000	Redshift: 0.28161510	V=20.51 FUV=21.31, NUV=21.83	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J090918+392925 acquisition (COS.ta.1297772)	(6) J090918+392925	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				112 Secs (112 Secs) [==>]	[1]
	2	J090918+392925 science 1 (COS.sp.1813539)	(6) J090918+392925	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=21033			800 Secs (2103 Secs) [==>2103.0 Secs]	[1]
	3	J090918+392925 science 2 (COS.sp.1813539)	(6) J090918+392925	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; BUFFER-TIME=21033			944 Secs (2748 Secs) [==>2748.0 Secs]	[2]



Proposal 17153 - J090918+392925 (22) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:20 GMT 2024

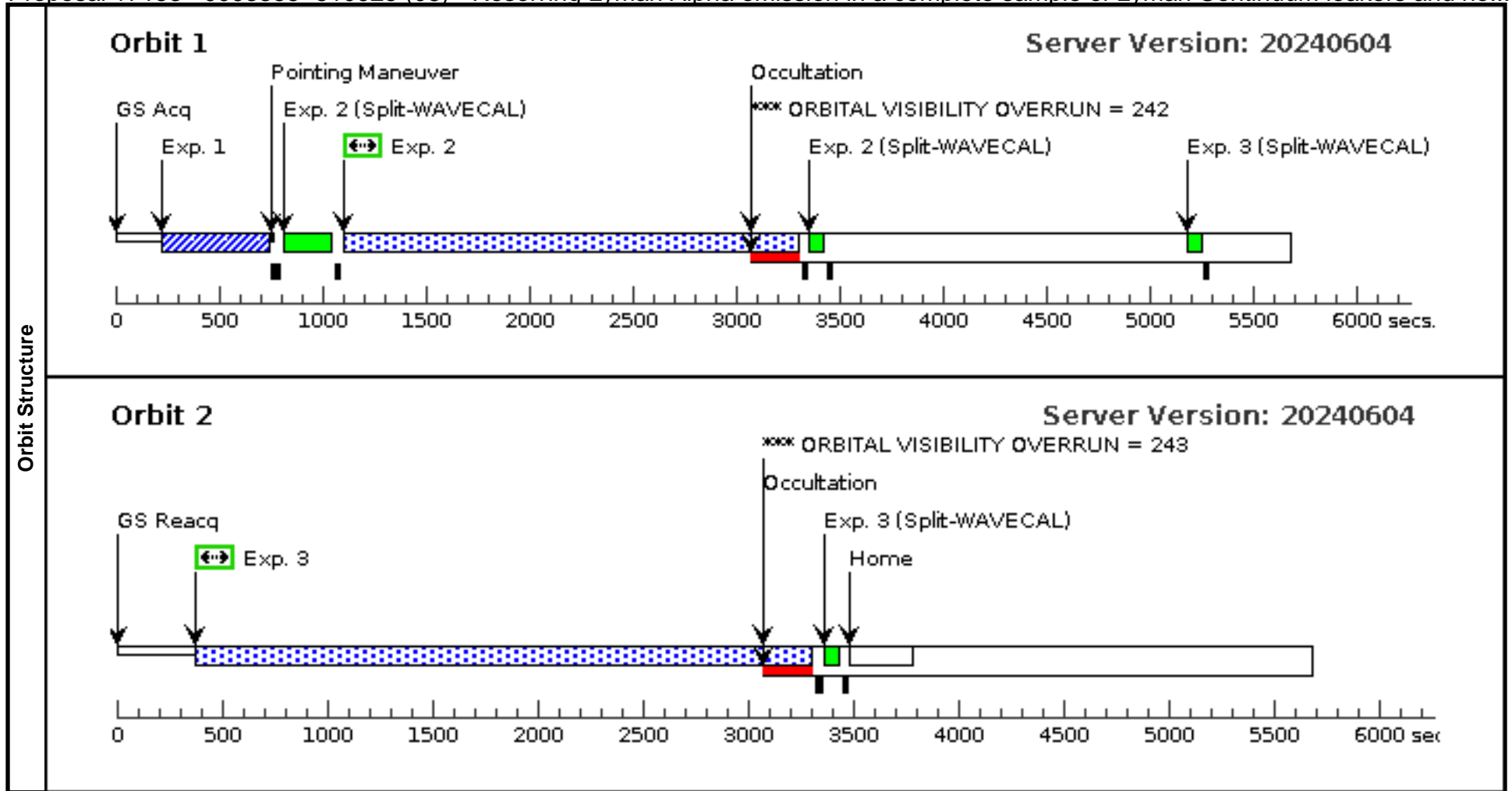
Visit	Proposal 17153, J090918+392925 (22), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
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Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	J090918+392925	RA: 09 09 18.3643 (137.3265179d) Dec: +39 29 24.74 (39.49021d) Equinox: J2000	Redshift: 0.28161510	V=20.51 FUV=21.31, NUV=21.83	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J090918+392925 acquisition (COS.ta.1297772)	(6) J090918+392925	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				112 Secs (112 Secs) [==>]	[1]
	2	J090918+392925 science 1 (COS.sp.1813539)	(6) J090918+392925	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=21033			800 Secs (2032 Secs) [==>2032.0 Secs]	[1]
	3	J090918+392925 science 2 (COS.sp.1813539)	(6) J090918+392925	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; BUFFER-TIME=21033			944 Secs (2727 Secs) [==>2727.0 Secs]	[2]



Proposal 17153 - J093355+510925 (08) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:20 GMT 2024

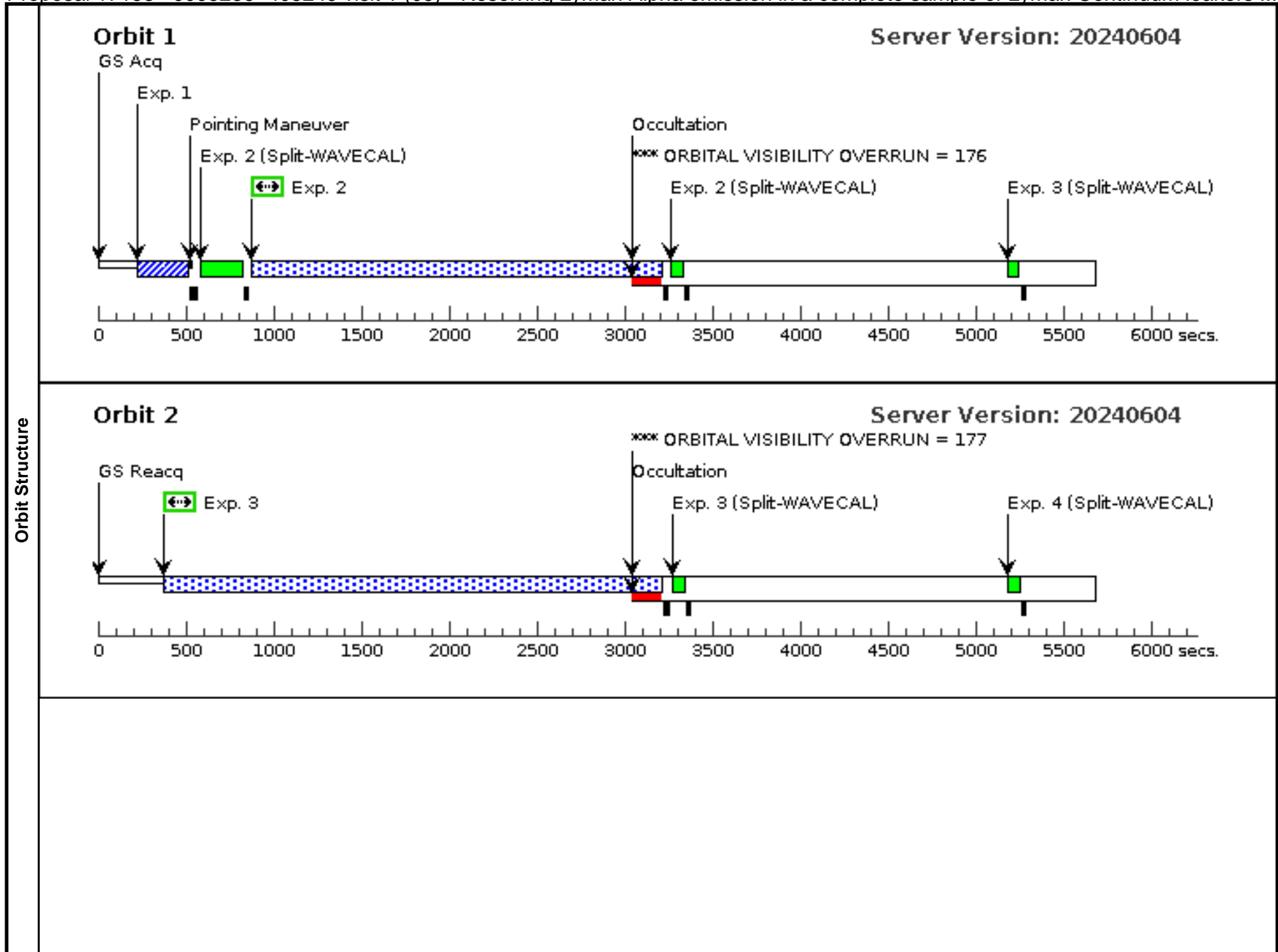
Visit	Proposal 17153, J093355+510925 (08), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																												
	(J093355+510925 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J093355+510925 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																												
Diagnosics																																													
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2	J093355+510925 science 1 (COS.sp.1813563)	(7) J093355+510925	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=20 901			800 Secs (2154 Secs) [==>2154.0 Secs]	[1]																																				
3	J093355+510925 science 2 (COS.sp.1813563)	(7) J093355+510925	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; BUFFER-TIME=20 901			944 Secs (2881 Secs) [==>2881.0 Secs]	[2]																																				
Exposures																																													



Proposal 17153 - J095236+405249 visit 1 (09) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers ...

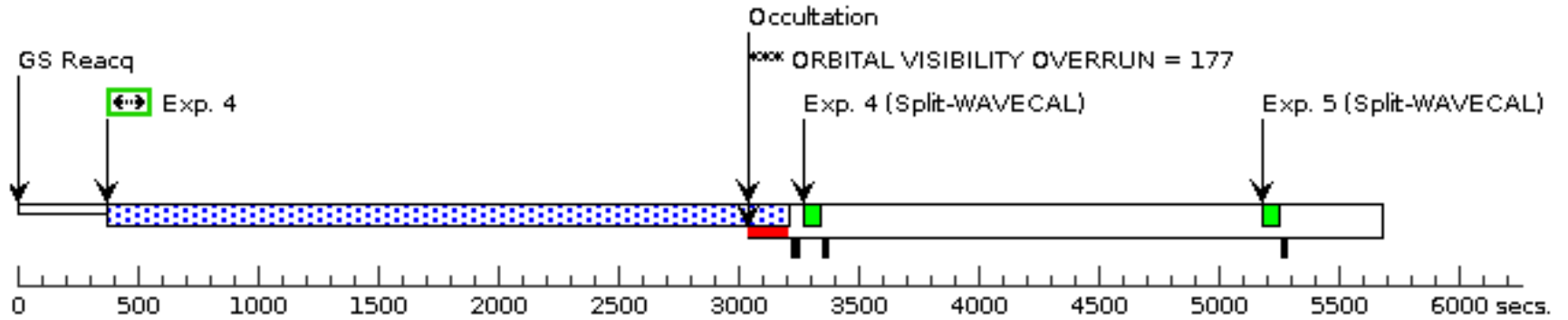
Wed Jun 12 17:01:20 GMT 2024

Visit	Proposal 17153, J095236+405249 visit 1 (09), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																										
	Diagnosics (J095236+405249 visit 1 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J095236+405249 visit 1 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J095236+405249 visit 1 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J095236+405249 visit 1 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J095236+405249 visit 1 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																										
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4	J095236+405249 science 3 (COS.sp.1825760)	(8) J095236+405249	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 718; FP-POS=2			1223 Secs (2786 Secs) [==>2786.0 Secs]	[3]																																																																		
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6	J095236+405249 science 5 (COS.sp.1825760)	(8) J095236+405249	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 718; FP-POS=4			1223 Secs (2786 Secs) [==>2786.0 Secs]	[5]																																																																		



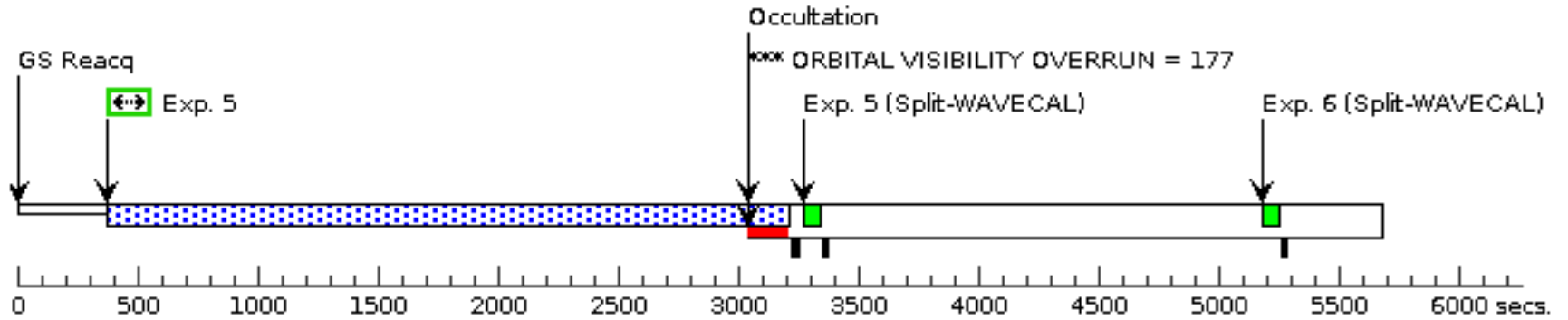
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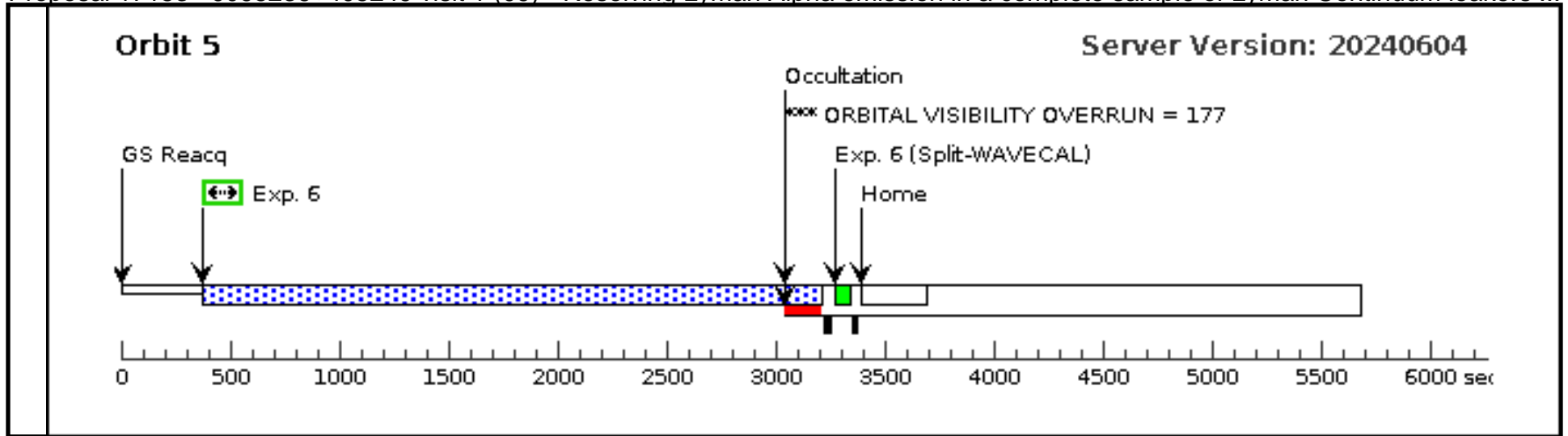
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Orbit 4

Server Version: 20240604

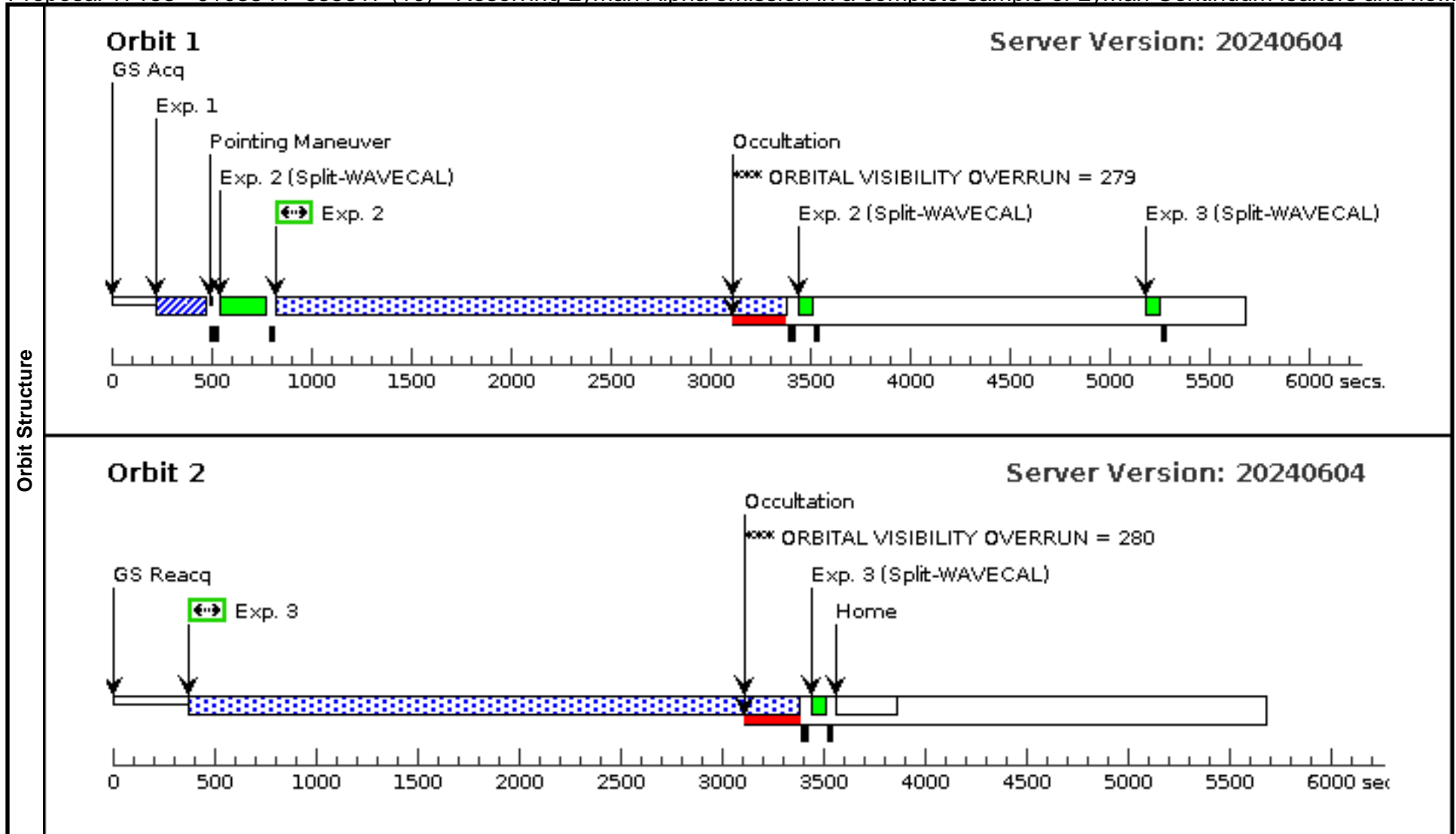




Proposal 17153 - J103344+635317 (10) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:20 GMT 2024

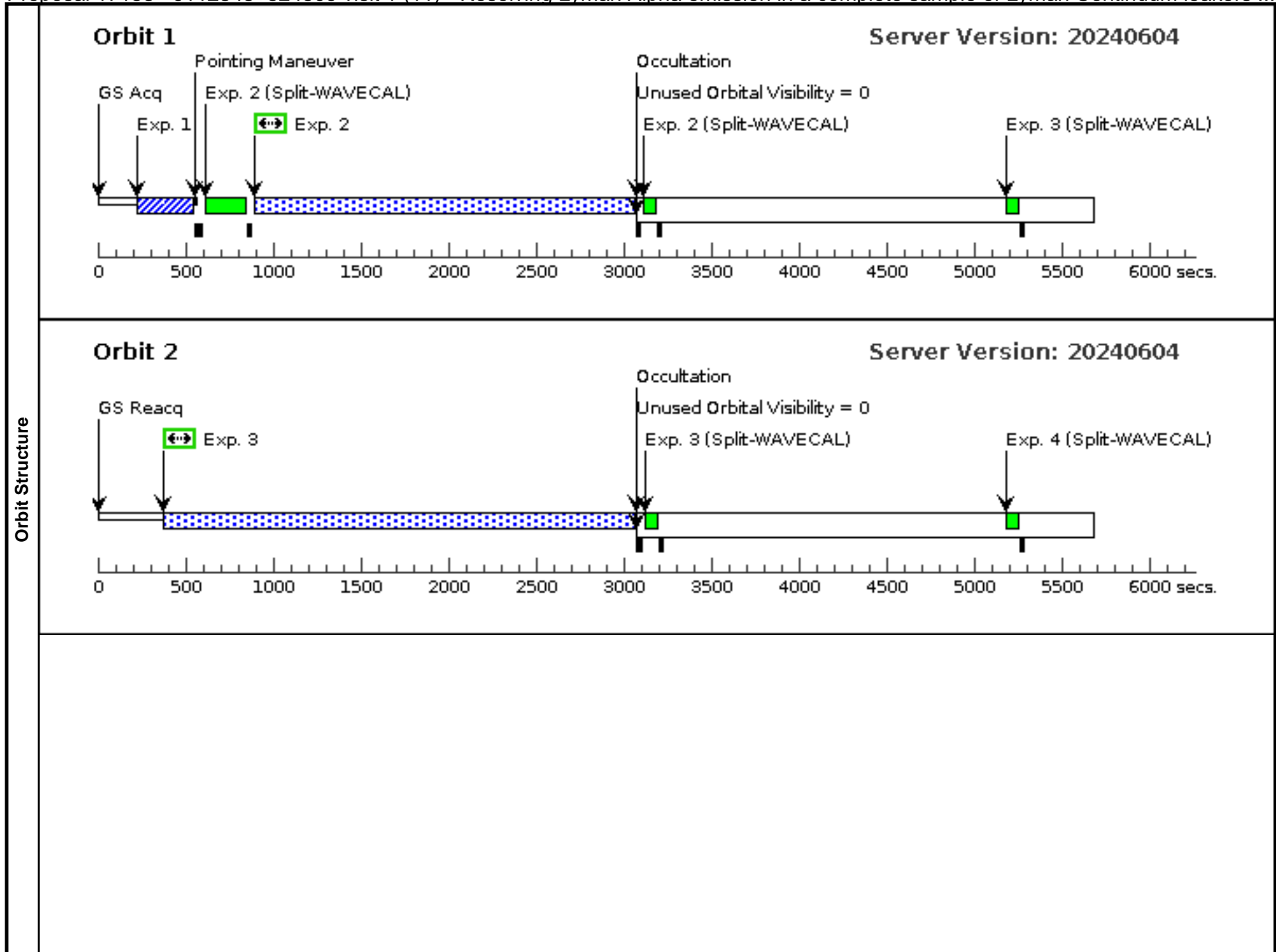
Visit	Proposal 17153, J103344+635317 (10), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(J103344+635317 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J103344+635317 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	J103344+635317	RA: 10 33 44.0523 (158.4335512d) Dec: +63 53 17.20 (63.88811d) Equinox: J2000	Redshift: 0.34671690	V=19.37 FUV=19.89, NUV=19.88	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J103344+635317 acquisition (COS.ta.1297764)	(9) J103344+635317	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				19 Secs (19 Secs) [==>]	[1]
	2	J103344+635317 science 1 (COS.sp.1813622)	(9) J103344+635317	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=18 210			944 Secs (2505 Secs) [==>2505.0 Secs]	[1]
	3	J103344+635317 science 2 (COS.sp.1813622)	(9) J103344+635317	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=18 210			944 Secs (2959 Secs) [==>2959.0 Secs]	[2]

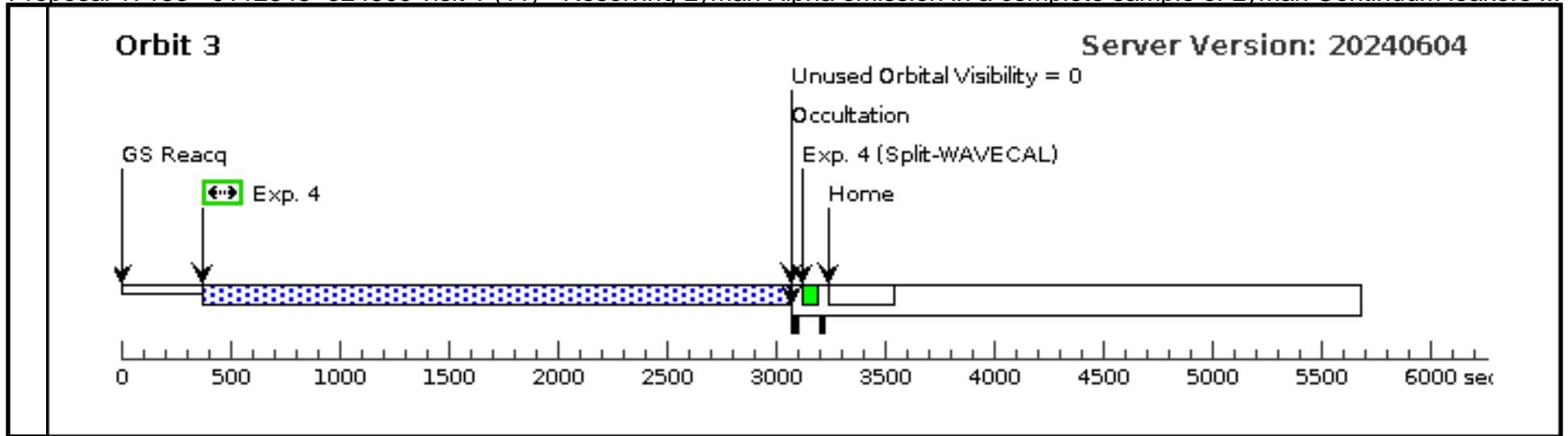


Proposal 17153 - J112848+524509 visit 1 (11) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers ...

Wed Jun 12 17:01:20 GMT 2024

Visit	Proposal 17153, J112848+524509 visit 1 (11), implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																											
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(10)</td> <td>J112848+524509</td> <td>RA: 11 28 47.5908 (172.1982950d) Dec: +52 45 9.36 (52.75260d) Equinox: J2000</td> <td>Redshift: 0.36439550</td> <td>V=20.63 FUV=20.83, NUV=21.23</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(10)	J112848+524509	RA: 11 28 47.5908 (172.1982950d) Dec: +52 45 9.36 (52.75260d) Equinox: J2000	Redshift: 0.36439550	V=20.63 FUV=20.83, NUV=21.23	Reference Frame: ICRS	<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(10)	J112848+524509	RA: 11 28 47.5908 (172.1982950d) Dec: +52 45 9.36 (52.75260d) Equinox: J2000	Redshift: 0.36439550	V=20.63 FUV=20.83, NUV=21.23	Reference Frame: ICRS																							
<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO																												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																		
	1	J112848+524509 acquisition (COS.ta.1297772)	(10) J112848+524509	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				53 Secs (53 Secs) [==>]	[1]																		
	2	J112848+524509 science 1 (COS.sp.1825906)	(10) J112848+524509	COS/FUV, TIME-TAG, PSA	G160M 1577 A		BUFFER-TIME=20 048; FP-POS=1		900 Secs (2117 Secs) [==>2117.0 Secs]	[1]																		
	3	J112848+524509 science 2 (COS.sp.1825906)	(10) J112848+524509	COS/FUV, TIME-TAG, PSA	G160M 1577 A		BUFFER-TIME=20 048; FP-POS=2		900 Secs (2638 Secs) [==>2638.0 Secs]	[2]																		
	4	J112848+524509 science 3 (COS.sp.1825906)	(10) J112848+524509	COS/FUV, TIME-TAG, PSA	G160M 1577 A		BUFFER-TIME=20 048; FP-POS=4		1000 Secs (2638 Secs) [==>2638.0 Secs]	[3]																		

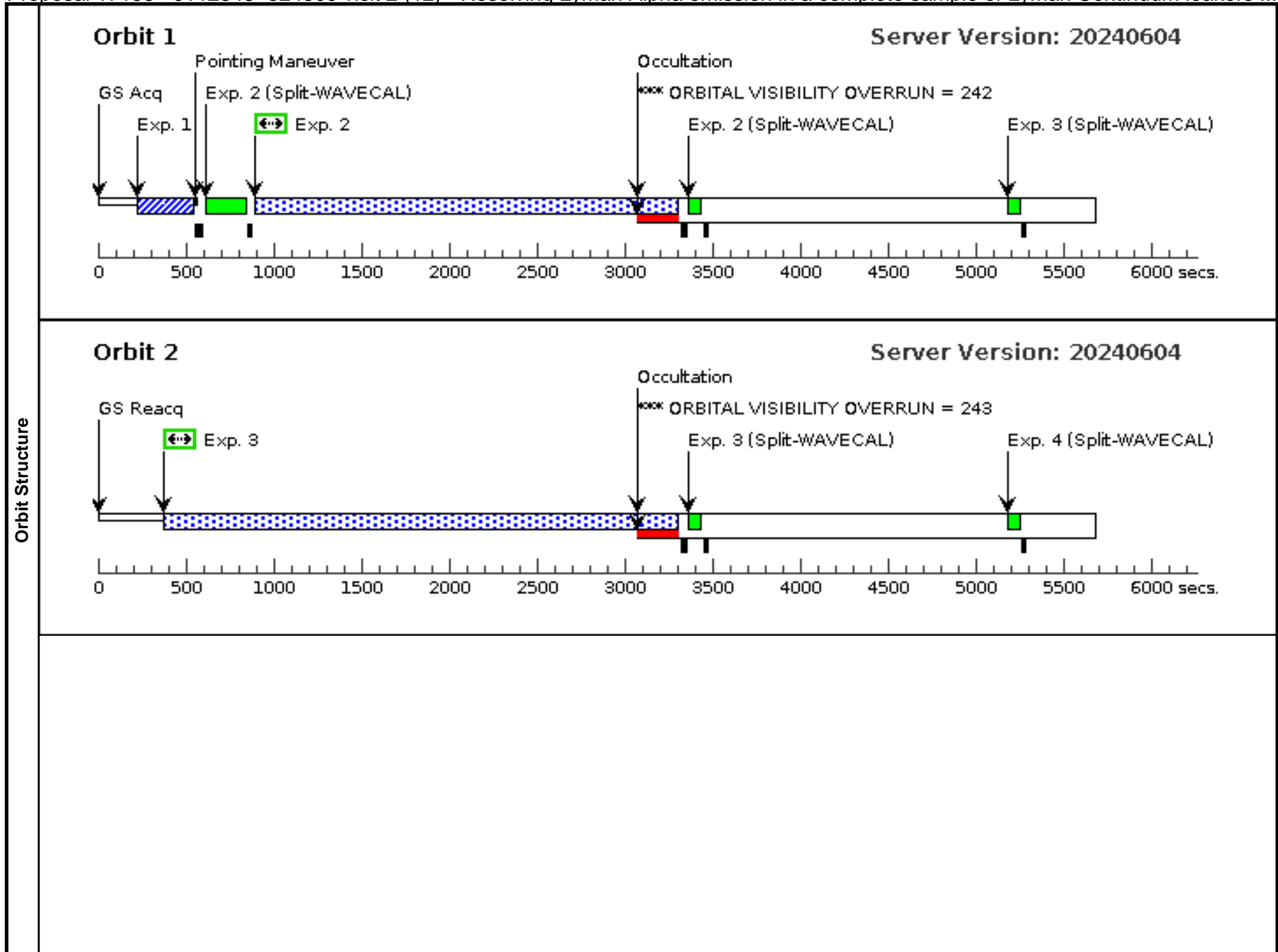


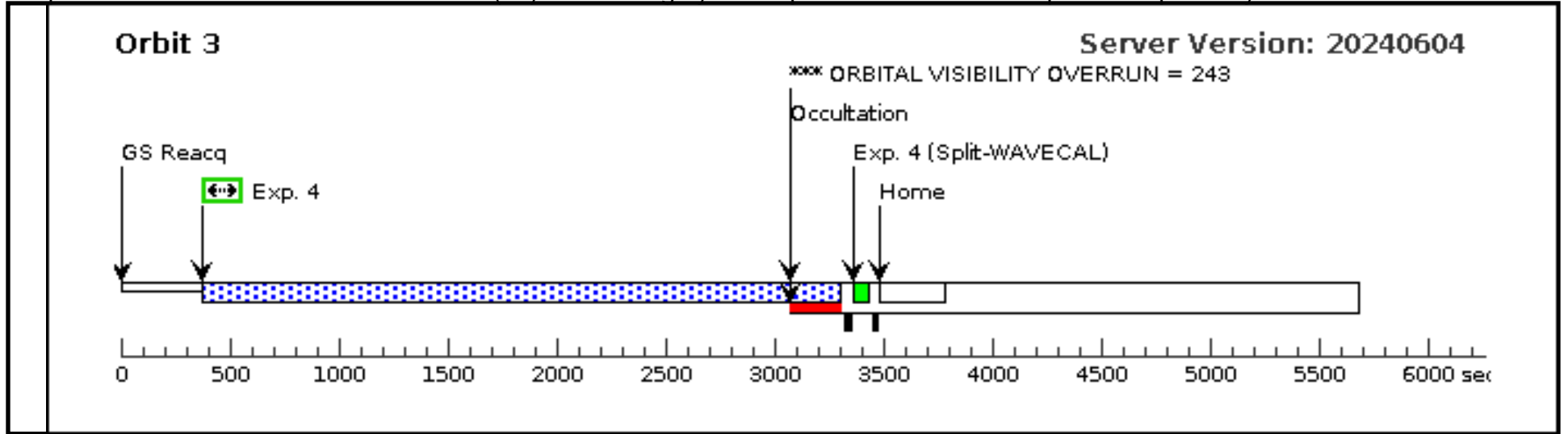


Proposal 17153 - J112848+524509 visit 2 (12) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers ...

Wed Jun 12 17:01:20 GMT 2024

Visit	Proposal 17153, J112848+524509 visit 2 (12), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: J112848+524509 requires 6 orbits. Thus, we split the object up into two visits.</i>									
	Diagnosics (J112848+524509 visit 2 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J112848+524509 visit 2 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J112848+524509 visit 2 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous	(10) J112848+524509 RA: 11 28 47.5908 (172.1982950d) Dec: +52 45 9.36 (52.75260d) Equinox: J2000 V=20.63 FUV=20.83, NUV=21.23 Reference Frame: ICRS								
	<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO									
Exposures	# Label (ETC Run) Target Config,Mode,Aperture Spectral Els. Opt. Params. Special Reqs. Groups Exp. Time (Total)/[Actual Dur.] Orbit									
	1	J112848+524509 acquisition (COS.ta.1297772)	(10) J112848+524509	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				53 Secs (53 Secs) [==>]	[1]
	2	J112848+524509 science 1 (COS.sp.1825906)	(10) J112848+524509	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 048; FP-POS=1			900 Secs (2359 Secs) [==>2359.0 Secs]	[1]
	3	J112848+524509 science 2 (COS.sp.1825906)	(10) J112848+524509	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 048; FP-POS=3			900 Secs (2881 Secs) [==>2881.0 Secs]	[2]
	4	J112848+524509 science 3 (COS.sp.1825906)	(10) J112848+524509	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20 048; FP-POS=4			1000 Secs (2881 Secs) [==>2881.0 Secs]	[3]

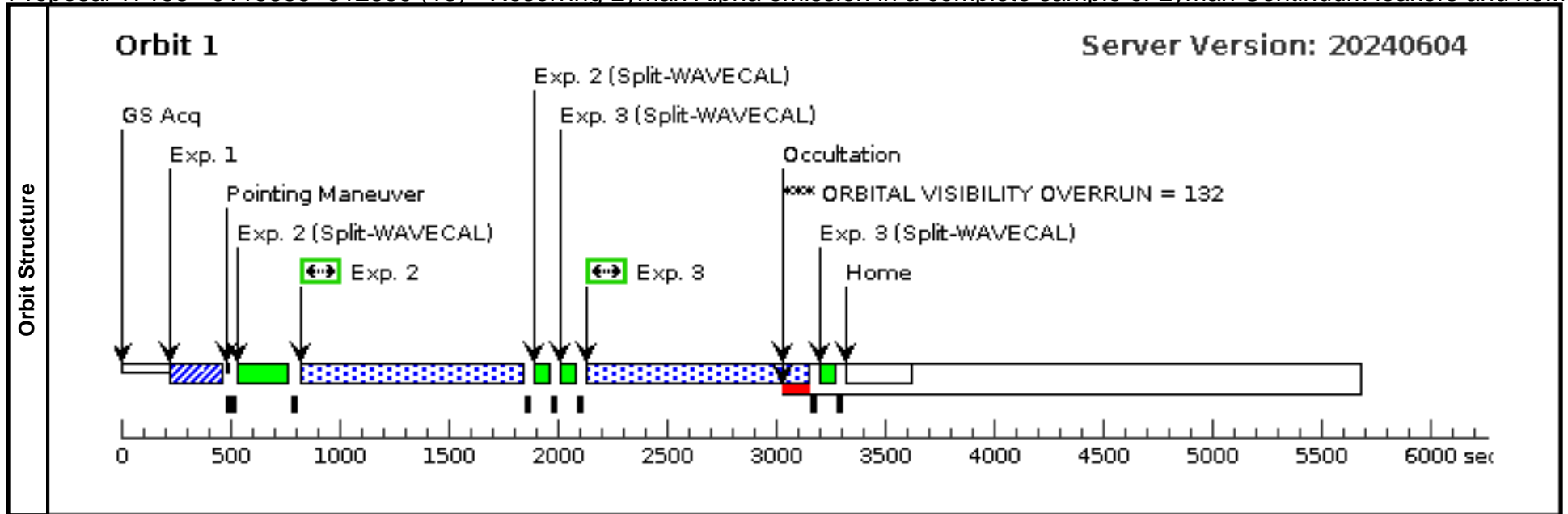




Proposal 17153 - J115855+312559 (13) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:20 GMT 2024

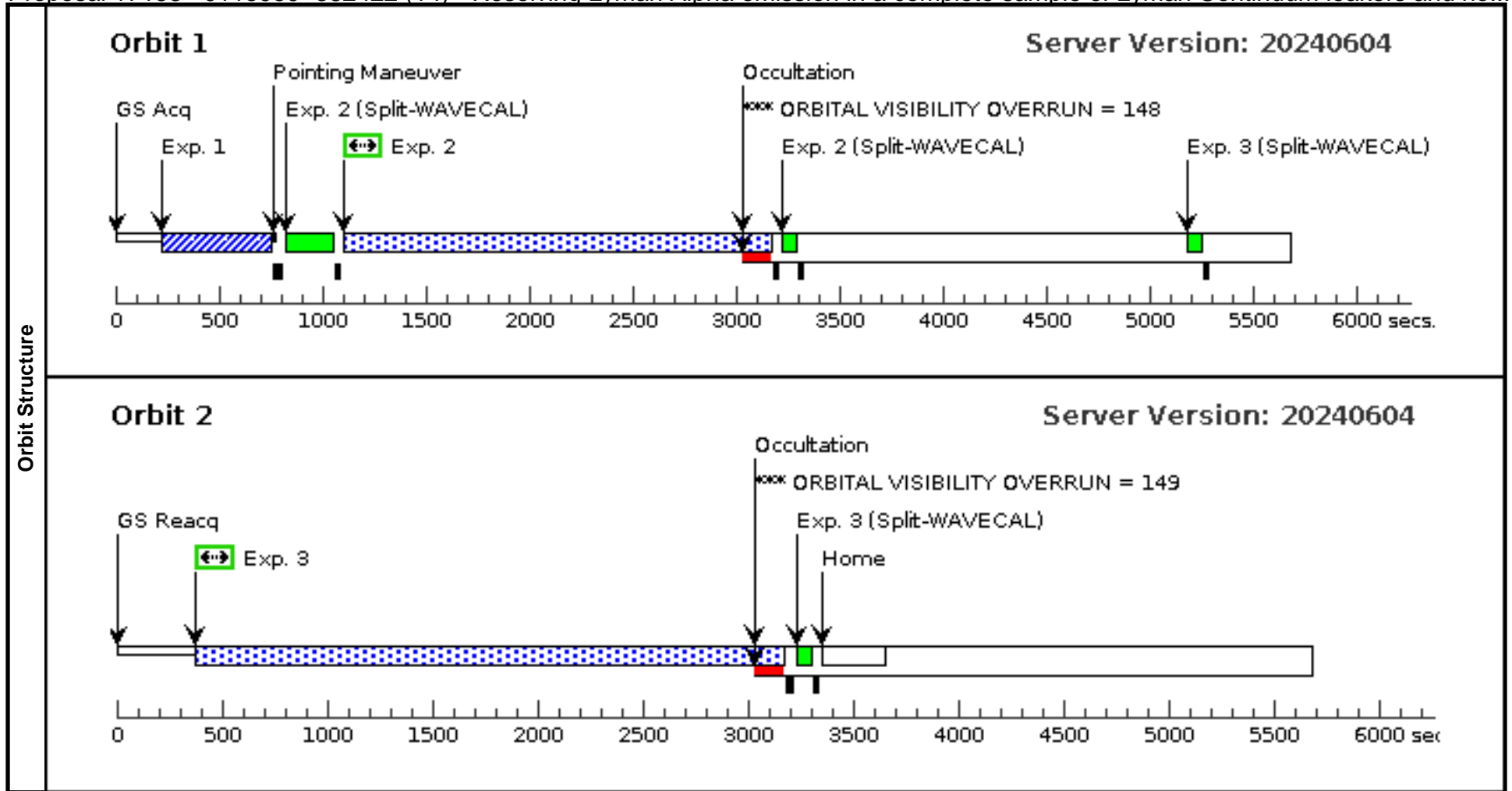
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	(J115855+312559 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	J115855+312559	RA: 11 58 54.7992 (179.7283300d) Dec: +31 25 59.09 (31.43308d) Equinox: J2000	Redshift: 0.24303300	V=18.65 FUV=19.31, NUV=19.58	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J115855+312559 acquisition (COS.ta.1297764)	(11) J115855+312559	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15 Secs (15 Secs) [==>]	[1]
	2	J115855+312559 science 1 (COS.sp.1825909)	(11) J115855+312559	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=16138			400 Secs (967 Secs) [==>967.0 Secs]	[1]
	3	J115855+312559 science 2 (COS.sp.1825909)	(11) J115855+312559	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; BUFFER-TIME=16138			400 Secs (967 Secs) [==>967.0 Secs]	[1]



Proposal 17153 - J115959+382422 (14) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:20 GMT 2024

Visit	Proposal 17153, J115959+382422 (14), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(J115959+382422 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J115959+382422 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	J115959+382422	RA: 11 59 58.8583 (179.9952429d) Dec: +38 24 21.97 (38.40610d) Equinox: J2000	Redshift: 0.26789050	V=20.52 FUV=20.81, NUV=22.28	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J115959+382422 acquisition (COS.ta.1297772)	(12) J115959+382422	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				157 Secs (157 Secs) [==>]	[1]
	2	J115959+382422 science 1 (COS.sp.1813741)	(12) J115959+382422	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=20 628			944 Secs (2020 Secs) [==>2020.0 Secs]	[1]
	3	J115959+382422 science 2 (COS.sp.1813741)	(12) J115959+382422	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=20 628			944 Secs (2748 Secs) [==>2748.0 Secs]	[2]



Proposal 17153 - J115959+382422 (19) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

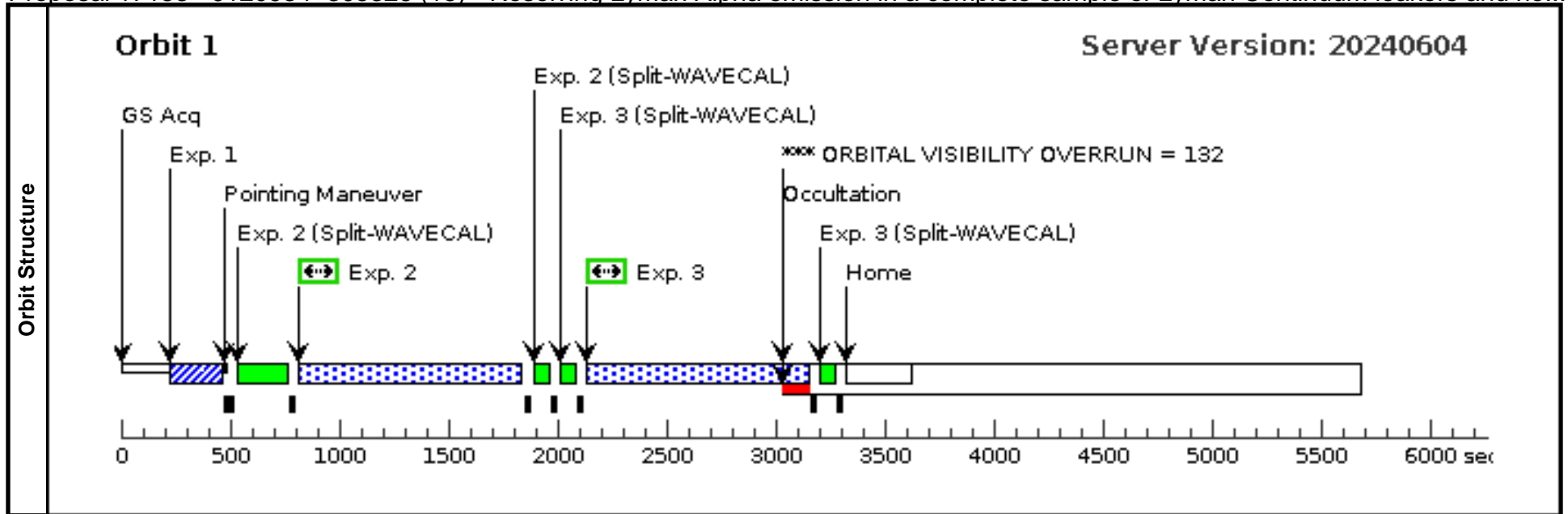
Wed Jun 12 17:01:20 GMT 2024

Visit	Proposal 17153, J115959+382422 (19), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(J115959+382422 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	J115959+382422	RA: 11 59 58.8583 (179.9952429d) Dec: +38 24 21.97 (38.40610d) Equinox: J2000	Redshift: 0.26789050	V=20.52 FUV=20.81, NUV=22.28	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J115959+382422 acquisition (COS.ta.1297772)	(12) J115959+382422	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				157 Secs (157 Secs) [==>]	[1]
	2	J115959+382422 science 1 (COS.sp.1813741)	(12) J115959+382422	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=20628			944 Secs (2020 Secs) [==>2020.0 Secs]	[1]
Orbit Structure	<div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20240604 </div> <p>Timeline details: GS Acq (~100s), Exp. 1 (~200s), Pointing Maneuver (~700s), Exp. 2 (Split-WAVECAL) (~800s), Occultation (~3000s), Exp. 2 (Split-WAVECAL) (~3100s), Home (~3200s). A red bar from 3000s to 3148s indicates an ORBITAL VISIBILITY OVERRUN = 148.</p>									

Proposal 17153 - J120934+305326 (15) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:20 GMT 2024

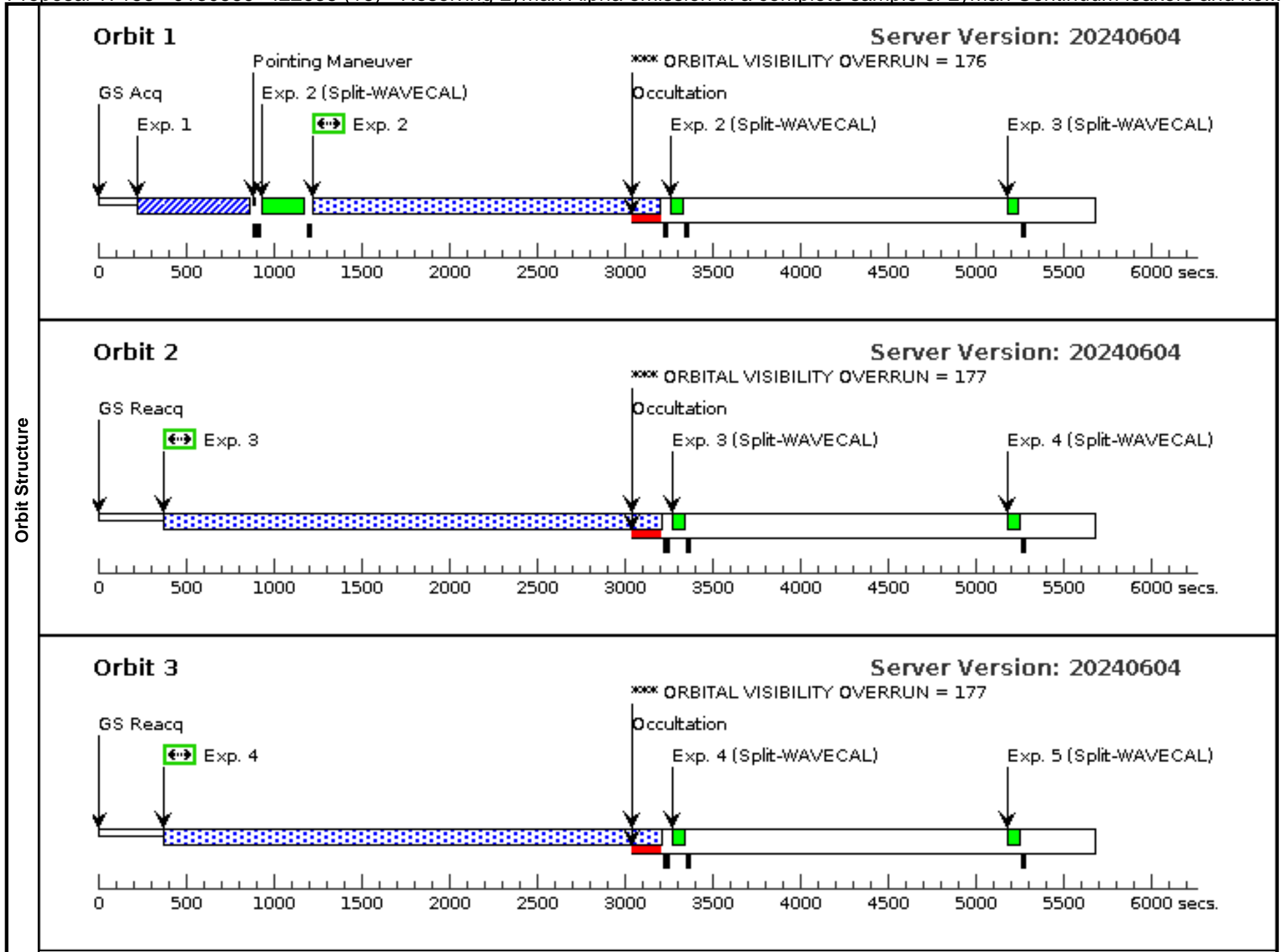
Visit	Proposal 17153, J120934+305326 (15), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(J120934+305326 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	J120934+305326	RA: 12 09 34.4882 (182.3937008d) Dec: +30 53 26.18 (30.89061d) Equinox: J2000	Redshift: 0.21931710	V=18.71 FUV=19.45, NUV=19.30	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J120934+305326 acquisition (COS.ta.1297764)	(13) J120934+305326	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				11 Secs (11 Secs) [==>]	[1]
	2	J120934+305326 science 1 (COS.sp.1825912)	(13) J120934+305326	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=16751			400 Secs (971 Secs) [==>971.0 Secs]	[1]
	3	J120934+305326 science 2 (COS.sp.1825912)	(13) J120934+305326	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; BUFFER-TIME=16751			400 Secs (971 Secs) [==>971.0 Secs]	[1]



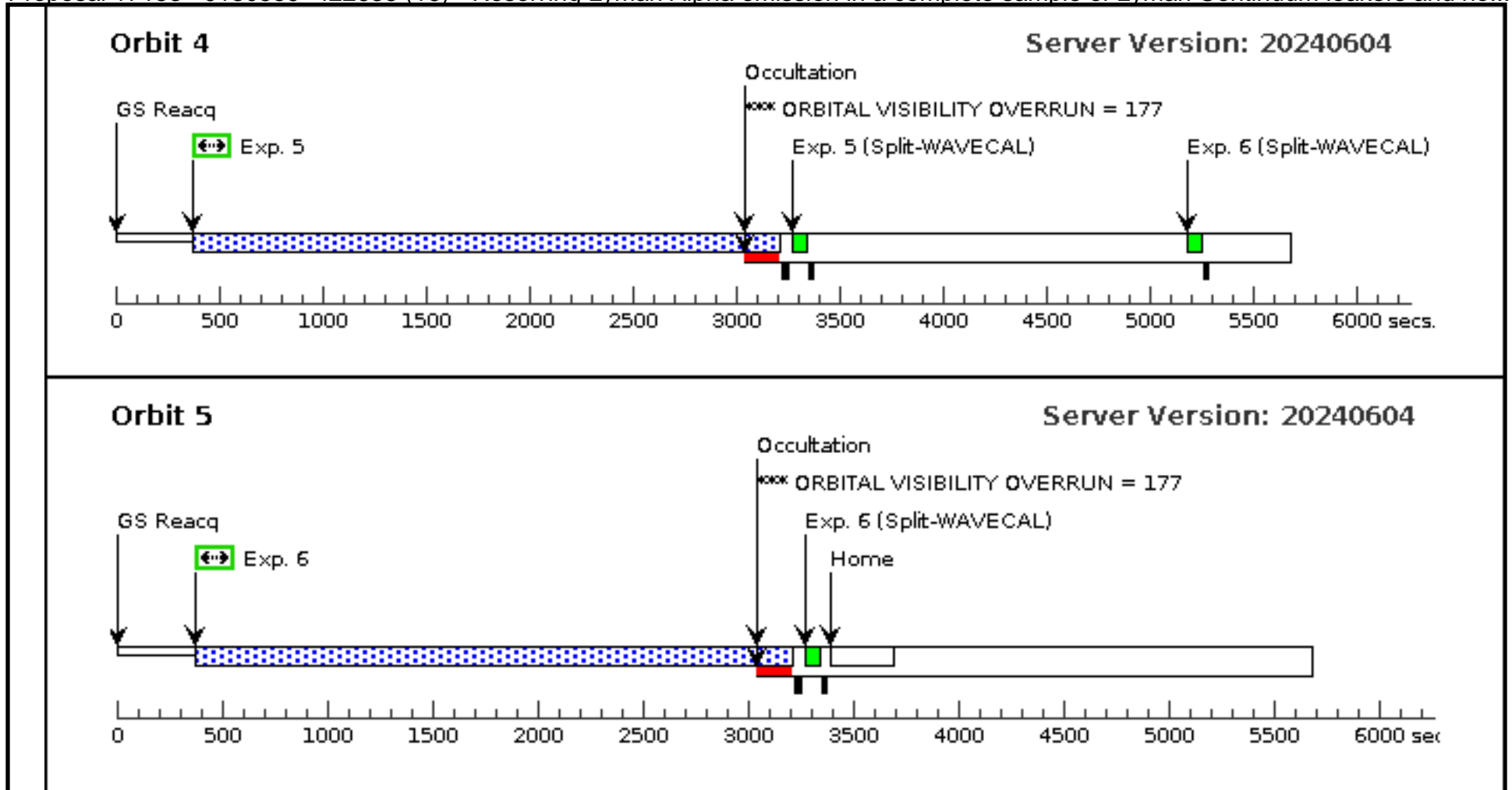
Proposal 17153 - J130559+422638 (16) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:20 GMT 2024

Visit	Proposal 17153, J130559+422638 (16), completed									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(J130559+422638 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(J130559+422638 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(J130559+422638 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(J130559+422638 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
	(J130559+422638 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	J130559+422638	RA: 13 05 59.3149 (196.4971454d) Dec: +42 26 38.05 (42.44390d) Equinox: J2000	Redshift: 0.31568380	V=21.12 FUV=22.18, NUV=22.85	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J130559+422638 acquisition (COS.ta.1297772)	(14) J130559+422638 8	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				214 Secs (214 Secs) [==>]	[1]
	2	J130559+422638 science 1 (COS.sp.1825913)	(14) J130559+422638 8	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=21559; FP-POS=1			900 Secs (1931 Secs) [==>1931.0 Secs]	[1]
	3	J130559+422638 science 2 (COS.sp.1825913)	(14) J130559+422638 8	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=21559; FP-POS=1			900 Secs (2786 Secs) [==>2786.0 Secs]	[2]
	4	J130559+422638 science 3 (COS.sp.1825913)	(14) J130559+422638 8	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=21559; FP-POS=2			1000 Secs (2786 Secs) [==>2786.0 Secs]	[3]
	5	J130559+422638 science 4 (COS.sp.1825913)	(14) J130559+422638 8	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=21559; FP-POS=3			1000 Secs (2786 Secs) [==>2786.0 Secs]	[4]
	6	J130559+422638 science 5 (COS.sp.1825913)	(14) J130559+422638 8	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=21559; FP-POS=4			1000 Secs (2786 Secs) [==>2786.0 Secs]	[5]



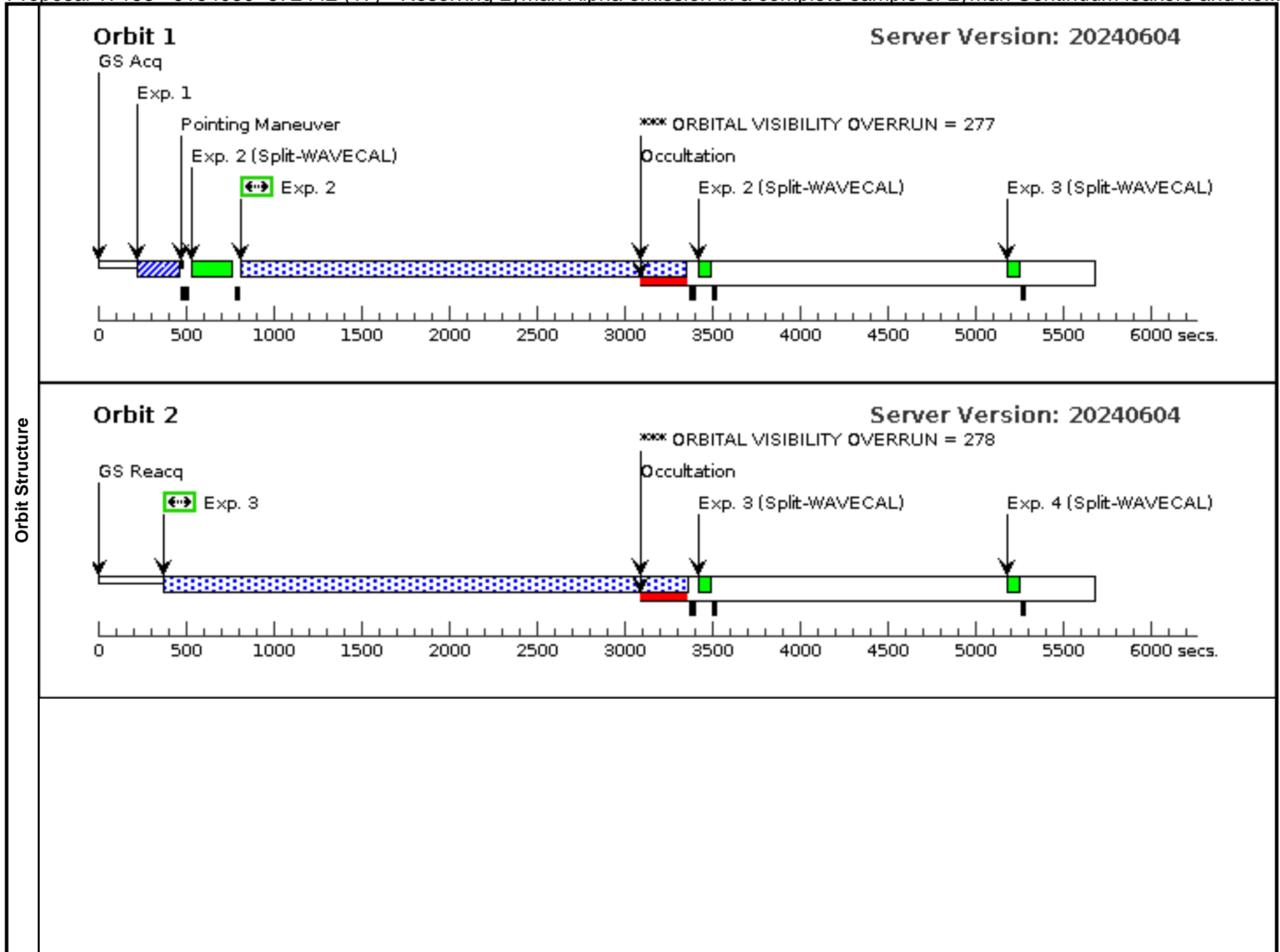
Orbit Structure

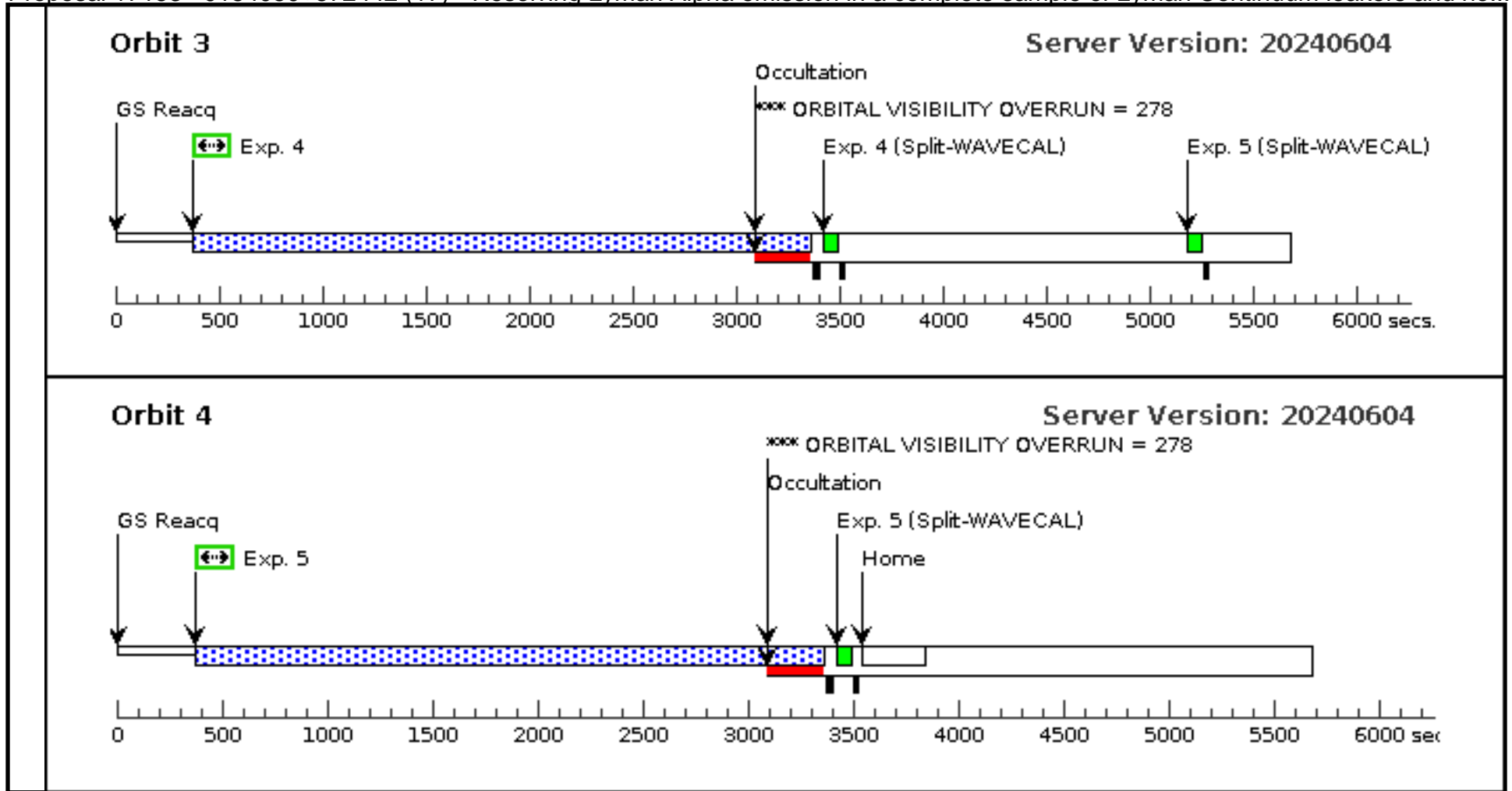


Proposal 17153 - J154050+572442 (17) - Resolving Lyman Alpha emission in a complete sample of Lyman Continuum leakers and no...

Wed Jun 12 17:01:21 GMT 2024

Visit	Proposal 17153, J154050+572442 (17), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																					
Diagnostics	(J154050+572442 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J154050+572442 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J154050+572442 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J154050+572442 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																					
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(15)</td> <td>J154050+572442</td> <td>RA: 15 40 50.1938 (235.2091408d) Dec: +57 24 41.93 (57.41165d) Equinox: J2000</td> <td>Redshift: 0.29444540</td> <td>V=18.68 FUV=19.75, NUV=19.41</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(15)	J154050+572442	RA: 15 40 50.1938 (235.2091408d) Dec: +57 24 41.93 (57.41165d) Equinox: J2000	Redshift: 0.29444540	V=18.68 FUV=19.75, NUV=19.41	Reference Frame: ICRS																																																
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																	
(15)	J154050+572442	RA: 15 40 50.1938 (235.2091408d) Dec: +57 24 41.93 (57.41165d) Equinox: J2000	Redshift: 0.29444540	V=18.68 FUV=19.75, NUV=19.41	Reference Frame: ICRS																																																																	
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>J154050+572442 acquisition (COS.ta.1297764)</td> <td>(15) J154050+572442</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORA</td> <td></td> <td></td> <td></td> <td>12 Secs (12 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>J154050+572442 science 1 (COS.sp.1813826)</td> <td>(15) J154050+572442</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1623 A</td> <td>BUFFER-TIME=19445; FP-POS=1</td> <td></td> <td></td> <td>935 Secs (2492 Secs) [==>2492.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>J154050+572442 science 2 (COS.sp.1813826)</td> <td>(15) J154050+572442</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1623 A</td> <td>BUFFER-TIME=19445; FP-POS=2</td> <td></td> <td></td> <td>935 Secs (2937 Secs) [==>2937.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>J154050+572442 science 3 (COS.sp.1813826)</td> <td>(15) J154050+572442</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1623 A</td> <td>BUFFER-TIME=19445; FP-POS=3</td> <td></td> <td></td> <td>1175 Secs (2937 Secs) [==>2937.0 Secs]</td> <td>[3]</td> </tr> <tr> <td>5</td> <td>J154050+572442 science 4 (COS.sp.1813826)</td> <td>(15) J154050+572442</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1623 A</td> <td>BUFFER-TIME=19445; FP-POS=4</td> <td></td> <td></td> <td>1175 Secs (2937 Secs) [==>2937.0 Secs]</td> <td>[4]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	J154050+572442 acquisition (COS.ta.1297764)	(15) J154050+572442	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) [==>]	[1]	2	J154050+572442 science 1 (COS.sp.1813826)	(15) J154050+572442	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19445; FP-POS=1			935 Secs (2492 Secs) [==>2492.0 Secs]	[1]	3	J154050+572442 science 2 (COS.sp.1813826)	(15) J154050+572442	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19445; FP-POS=2			935 Secs (2937 Secs) [==>2937.0 Secs]	[2]	4	J154050+572442 science 3 (COS.sp.1813826)	(15) J154050+572442	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19445; FP-POS=3			1175 Secs (2937 Secs) [==>2937.0 Secs]	[3]	5	J154050+572442 science 4 (COS.sp.1813826)	(15) J154050+572442	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19445; FP-POS=4			1175 Secs (2937 Secs) [==>2937.0 Secs]	[4]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																													
1	J154050+572442 acquisition (COS.ta.1297764)	(15) J154050+572442	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) [==>]	[1]																																																													
2	J154050+572442 science 1 (COS.sp.1813826)	(15) J154050+572442	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19445; FP-POS=1			935 Secs (2492 Secs) [==>2492.0 Secs]	[1]																																																													
3	J154050+572442 science 2 (COS.sp.1813826)	(15) J154050+572442	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19445; FP-POS=2			935 Secs (2937 Secs) [==>2937.0 Secs]	[2]																																																													
4	J154050+572442 science 3 (COS.sp.1813826)	(15) J154050+572442	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19445; FP-POS=3			1175 Secs (2937 Secs) [==>2937.0 Secs]	[3]																																																													
5	J154050+572442 science 4 (COS.sp.1813826)	(15) J154050+572442	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19445; FP-POS=4			1175 Secs (2937 Secs) [==>2937.0 Secs]	[4]																																																													





Visit	Proposal 17153, J154050+572442 (20), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(J154050+572442 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	J154050+572442	RA: 15 40 50.1938 (235.2091408d) Dec: +57 24 41.93 (57.41165d) Equinox: J2000	Redshift: 0.29444540	V=18.68 FUV=19.75, NUV=19.41	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J154050+572442 acquisition (COS.ta.1297764)	(15) J154050+572442	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) [==>]	[1]
	2	J154050+572442 science 1 (COS.sp.1813826)	(15) J154050+572442	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19445; FP-POS=1			935 Secs (2492 Secs) [==>2492.0 Secs]	[1]
Orbit Structure	Server Version: 20240604									
	<p>The diagram shows a timeline for Orbit 1 from 0 to 6000 seconds. Key events include: GS Acq at 0s, Exp. 1 (blue hatched bar) from ~200s to ~400s, Pointing Maneuver from ~400s to ~600s, Exp. 2 (Split-WAVECAL) (green bar) from ~600s to ~800s, a second Exp. 2 (Split-WAVECAL) (green bar) from ~3400s to ~3500s, Occultation (red bar) from ~3000s to ~3400s, and Home at ~3500s. A red bar between 3000s and 3500s is labeled 'ORBITAL VISIBILITY OVERRUN = 277'.</p>									

Visit	Proposal 17153, J154050+572442 (21), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)
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Diagnostics	(J154050+572442 (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
--------------------	---------------------------------------------------------------------------

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	J154050+572442	RA: 15 40 50.1938 (235.2091408d) Dec: +57 24 41.93 (57.41165d) Equinox: J2000	Redshift: 0.29444540	V=18.68 FUV=19.75, NUV=19.41	Reference Frame: ICRS
<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO					

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	J154050+572442 acquisition (COS.ta.1297764)	(15) J154050+572442	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) [==>]	[1]
2	J154050+572442 science 1 (COS.sp.1813826)	(15) J154050+572442	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19445; FP-POS=1			935 Secs (2431 Secs) [==>2431.0 Secs]	[1]

