













I have 4 .sky documents which I want to merge.
The documents are:

-  Site86_Study9.1_CalCurve1.sky
-  Site86_Study9.1_CalCurve1.sky.view
-  Site86_Study9.1_CalCurve1.skyd
-  Site86_Study9.1_CalCurve2.sky
-  Site86_Study9.1_CalCurve2.sky.view
-  Site86_Study9.1_CalCurve2.skyd
-  Site86_Study9.1_CalCurve3.sky
-  Site86_Study9.1_CalCurve3.sky.view
-  Site86_Study9.1_CalCurve3.skyd
-  Site86_Study9.1_CalCurve4.sky
-  Site86_Study9.1_CalCurve4.sky.view
-  Site86_Study9.1_CalCurve4.skyd

Skyline version that I am using



For example the document CalCurve4 contains information about my manual peak integration

1_CalCurve4.sky

Settings Help

linded_run_302

IUMAN
 IAWR.G [304, 314]
 ++ (total ratio 0.18)
 - 888.4686+[3] (ratio 0
 - 817.4315+[1] (ratio 0
 - 659.3624+[2] (ratio 0.
 ++ (heavy)
 IQGK.Y [331, 341]
 I [14, 21]
 :NANVLAR.Y [157, 17.
 I.R.V [60, 68]
 UMAN
 I.R [204, 211]
 ITILTTR.S [214, 227]
 IILT.K.R [58, 70]
 IKPLDETLK.K [81, 96]
 IELR.A [113, 123]
 UMAN
 G.R.D [150, 159]
 IISVLAYR.N [28, 43]
 JALVR.Q [160, 171]
 FLIR.V [259, 269]
 LIEILASR.T [100, 11!
 UMAN
 R.L [348, 355]
 L.Q [446, 454]
 FLVR.I [430, 440]
 GLK.T [397, 407]
 IVDVVANR.S [199, 2
 HUMAN
 L.G [267, 274]
 I.R.F [53, 61]
 EPFSNKG [62, 75]
 IWTSR.W [13, 24]
 TVKH [76, 86]
 JMAN
 K.K [183, 191]

Results Grid

Replicate Name	Trail Rep Not	Retention Time	Fwhm	Start Time	End Time	Area	Backgr	Area Ratio	Height	Peak Rank	signal quality	RT scheduling
9-1_Site86_A4_CalCurve_run_218		43.87	0.03	43.54	44.19	139	0	0.0009	46	3		
9-1_Site86_B4_CalCurve_run_219		43.59	0.32	43.27	43.95	325	0	0.0024	62	3		
9-1_Site86_C4_CalCurve_run_220		43.59	0.06	43.24	43.84	538	0	0.0041	102	3		
9-1_Site86_D4_CalCurve_run_221		43.45	0.03	43.24	43.81	580	0	0.0048	114	2		
9-1_Site86_E4_CalCurve_run_223		43.33	0.09	42.99	43.65	705	0	0.0054	123	3		
9-1_Site86_F4_CalCurve_run_224		43.16	0.16	42.78	43.45	3548	0	0.0302	365	1		
9-1_Site86_G4_CalCurve_run_225		0	0	0	0	0	0		0	0		
9-1_Site86_H4_CalCurve_run_226		0	0	0	0	0	0		0	0		
9-1_Site86_QC4_CalCurve_run_227		0	0	0	0	0	0		0	0		
9-1_Site86_I4_CalCurve_run_228		0	0	0	0	0	0		0	0		
9-1_Site86_J4_CalCurve_run_229		0	0	0	0	0	0		0	0		
9-1_Site86_A_blank_run_233												
9-1_Site86_A_blank_run_235		43.18	0.03	42.96	43.62	86	0	0.0005	49	3		
9-1_Site86_G4_CalCurve_run_236		43.06	0.19	42.66	43.36	17268	0	0.119	1405	2		

Record: 39 of 39

Filter:

Same thing with document CalCurve3

nk_run_209

MAN

NR.G [304, 314]

(total ratio 0.002)

188.4686+[1] (ratio 0

117.4315+[2] (ratio 0

159.3624+[3] (ratio 0

(heavy)

198.4769+[1]

127.4398+[2]

169.3706+[3]

GK.Y [331, 341]

14, 21]

ANVLAR.Y [157, 17

.V [60, 68]

MAN

I [204, 211]

ILTTR.S [214, 227]

TK.R [58, 70]

LDETLK.K [81, 96]

.R.A [113, 123]

MAN

R.D [150, 159]

SVLAYR.N [28, 43]

LVR.Q [160, 171]

R.V [259, 269]

IEILASR.T [100, 11

MAN

. [348, 355]

I [446, 454]

VR.I [430, 440]

.K.T [397, 407]

DVVANR.S [199, 2

JMAN

I [267, 274]

.F [53, 61]

FSNKG [62, 75]

/TSRW [13, 24]

9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S
9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S
9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S
9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S	9-1_S

Results Grid

	Replicate Name	Trail Rep Not	Retention Time	Fwhm	Start Time	End Time	Area	Backgrc	Area Ratio	Height	Peak Rank	signal quality
	9-1_Site86_A3_CalCurve_run_148	0	0	0	0	0	0	0		0	0	
	9-1_Site86_B3_CalCurve_run_149	0	0	0	0	0	0	0		0	0	
	9-1_Site86_C3_CalCurve_run_150	0	0	0	0	0	0	0		0	0	
	9-1_Site86_D3_CalCurve_run_151	0	0	0	0	0	0	0		0	0	
	9-1_Site86_E3_CalCurve_run_153	0	0	0	0	0	0	0		0	0	
	9-1_Site86_F3_CalCurve_run_154	43.75	0.1	43.46	44.11	4947	0	0.0298		570	2	
	9-1_Site86_G3_CalCurve_run_155	43.59	0.22	43.26	43.93	21579	0	0.1239		1622	2	
	9-1_Site86_H3_CalCurve_run_156	0	0	0	0	0	0			0	0	
	9-1_Site86_QC3_CalCurve_run_157	0	0	0	0	0	0			0	0	
	9-1_Site86_I3_CalCurve_run_158	0	0	0	0	0	0			0	0	
	9-1_Site86_J3_CalCurve_run_159	0	0	0	0	0	0			0	0	
	9-1_Site86_A_blank_run_163											

Record: 0 of 40

Filter:

When I am trying to import document CalCurve3 into CalCurve4 using the following settings

The screenshot shows the CalCurve4 software interface. On the left is a list of protein sequences and their modifications. The main area displays a grid of results. A 'Skyline' dialog box is open in the center, asking how to handle document results for this import.

CalCurve4.sky

tings Help

ended_run_302

IMAN
 .WR.G [304, 314]
 + (total ratio 0.18)
 888.4686+[3] (ratio 0
 817.4315+[1] (ratio 0
 659.3624+[2] (ratio 0.
 + (heavy)
 GK.Y [331, 341]
 [14, 21]
 IANVLAR.Y [157, 17.
 RV [60, 68]
 MAN
 R [204, 211]
 ILTTR.S [214, 227]
 .TK.R [58, 70]
 PLDETLK.K [81, 96]
 :LR.A [113, 123]
 MAN
 R.D [150, 159]
 ISVLAYR.N [28, 43]
 ALVR.Q [160, 171]
 .LR.V [259, 269]
 .IEILASR.T [100, 11:
 MAN
 L [348, 355]
 Q [446, 454]
 .VR.I [430, 440]
 V.T [407, 407]

Results Grid

Replicate Name									
9-1_Site86_A4_CalCurve_run_218									
9-1_Site86_B4_CalCurve_run_219									
9-1_Site86_C4_CalCurve_run_220									
9-1_Site86_D4_CalCurve_run_221									
9-1_Site86_E4_CalCurve_run_223									
9-1_Site86_F4_CalCurve_run_224		43.16	0.16	42.78	43.45	3548	0	0.0302	365
9-1_Site86_G4_CalCurve_run_225		0	0	0	0	0	0		0
9-1_Site86_H4_CalCurve_run_226		0	0	0	0	0	0		0

Skyline

How do you want to handle document results for this import?

- ☐ Remove results information
- ☐ Merge with existing results by replicate name
- ☐ Merge with existing results by replicate order
- ☒ Add new replicates
- ☒ Merge matching peptides

OK Cancel

CalCurve4.sky I get the following error

ngs Help

ded_run_302

IAN

VR.G [304, 314]

(total ratio 0.18)

88.4686+ [3] (ratio 0

17.4315+ [1] (ratio 0

59.3624+[2] (ratio 0.

(heavy)

G.K.Y [331, 341]

4.211

ANVLAR.Y [157. 17.

V [60, 68]

MAN

[204, 211]

LTT**R**.S [214, 227]

TK.R [58, 70]

'LDETL**K**.K [81, 96]

```
.R.A [113, 123]
```

MAN

R.D [150, 159]

```

;VLAYR.N [28, 43]

```

LVR.Q [160, 171]

R.V [259, 269]

EILASR.T [100, 11]

MAN

[348, 355]

[446, 454]

/R.I [430, 440]

K.T [397, 407]

D.VAN R.S [199, 2]

JMAN

[267, 274]

.F [53, 61]

FSN**K**.G [62, 75]

TSR W 113 241

[illegible]

Results Grid

Replicate Name

9-1_Site86_A4_CalCurve_run_224

9-1_Site86_B4_CalCurve_run_225

9-1_Site86_C4_CalCurve_run_226

9-1_Site86_D4_CalCurve_run_227

9-1_Site86_E4_CalCurve_run_228

9-1_Site86_F4_CalCurve_run_229

9-1_Site86_G4_CalCurve_run_230

9-1_Site86_H4_CalCurve_run_231

9-1_Site86_QC4_CalCurve_run_232

9-1_Site86_I4_CalCurve_run_233

9-1_Site86_J4_CalCurve_run_234

9-1_Site86_A_blank_run_235

Peak Rank

1

2

3

4

5

6

7

8

9

10

11

signal quality

Failed importing file C:\Users\Pawel\Desktop\LAB_QTRAP (ok)\sky_files (finished)\Site86_Study9.1_CalCurve3.sky. Object reference not set to an instance of an object.

OK

Failed importing file C:\Users\Paweł\Desktop\LAB_QTRAP (ok)\sky_files
(finished)\Site86_Study9.1_CalCurve3.sky. Object reference not set to an instance
of an object.

OK

When I untick MERGE MATCHING during import

9-1_CalCurve4.sky

Settings Help

blinded_run_302

HUMAN
NAWR.G [304, 314]
8++ (total ratio 0.18)
3] - 888.4686+[3] (ratio 0
7] - 817.4315+[1] (ratio 0
5] - 659.3624+[2] (ratio 0.
0++ (heavy)
AAGK.Y [331, 341]
R.I [14, 21]
ENANVLAR.Y [157, 17
DR.V [60, 68]
HUMAN
:R.R [204, 211]
NTILTTR.S [214, 227]
IDILTK.R [58, 70]
GKPLDETLK.K [81, 96]
DEL.R.A [113, 123]
HUMAN
GGR.D [150, 159]
AIIISVLAYR.N [28, 43]
DALVR.Q [160, 171]
VTLIR.V [259, 269]
CLIEILASR.T [100, 11!
HUMAN
R.L [348, 355]
IK.Q [446, 454]
STLVR.I [430, 440]
:SGLK.T [397, 407]
AIVDVVANR.S [199, 2
_HUMAN
K.G [267, 274]
AR.F [53, 61]
FEPFSNK.G [62, 75]

Replicate Name	42.54	0.05	42.27	42.96	635	0	0.0043	187	2	
9-1_Site86_A_blank_run_275										
9-1_Site86_A_blank_run_277										
9-1_Site86_22blinded_run_280										
9-1_Site86_A_blank_run_282										
9-1_Site86_23blinded_run_284										
9-1_Site86_A_blank_run_286	42.54	0.05	42.27	42.96	635	0	0.0043	187	2	
9-1_Site86_24blinded_run_287	0	0	0	0	0	0		0	0	
9-1_Site86_A_blank_run_289	42.56	0.04	42.23	42.93	170	0	0.0011	63	2	
9-1_Site86_23blinded_run_291	42.43	0.19	42.14	42.87	22493	0	0.1624	1909	1	
9-1_Site86_A_blank_run_293	42.19	0.01	42.19	42.88	210	0	0.0013	63	3	
9-1_Site86_24blinded_run_294	0	0	0	0	0	0		0	0	
9-1_Site86_A_blank_run_296	42.57	0.02	42.37	43.03	344	0	0.0022	58	1	

Results Grid

Height Peak Rank signal quality

0 0

61182 3

58 3

0 0

187 2

0 0

63 2

1909 1

63 3

0 0

58 1

Skyline

How do you want to handle document results for this import?

☐ Remove results information

☐ Merge with existing results by replicate name

☐ Merge with existing results by replicate order

☒ Add new replicates

☐ Merge matching peptides

OK Cancel

Then the merged document misses information about my annotations and my integration

1_CalCurve4.sky *

Settings Help

CalCurve_run_148

UMAN
AWR.G [304, 314]
++ (total ratio 0.001)
- 888.4686+[2] (ratio 0
- 817.4315+[3] (ratio 0
- 659.3624+[1] (ratio 0.
++ (heavy)
QGK.Y [331, 341]
I [14, 21]
:NANVLAR.Y [157, 17.
R.V [60, 68]
UMAN
AWR.G [304, 314]
QGK.Y [331, 341]
I [14, 21]
:NANVLAR.Y [157, 17.
R.V [60, 68]
UMAN
I.R [204, 211]
ITILTTR.S [214, 227]
ILTK.R [58, 70]
KPLDET.LK.K [81, 96]
ELR.A [113, 123]
UMAN
GR.D [150, 159]
IISVLAYR.N [28, 43]
JALVR.Q [160, 171]
FLIR.V [259, 269]
LIEILASR.T [100, 111]
UMAN
R.L [348, 355]
:Q [446, 454]
FLVR.I [430, 440]
GLK.T [397, 407]
IVDVVANR.S [199, 211]
HUMAN

Replicate Name	Tran Rep Not	Retentio Time	Fwhm	Start Time	End Time	Area	Backgrc	Area Ratio	Height	Peak Rank	signal quality	RT
9-1_Site86_24blinded_run_294		0	0	0	0	0	0		0	0		
9-1_Site86_A_blank_run_296		42.41	0.03	42.37	43.03	301	0	0.0025	68	2		
9-1_Site86_24blinded_run_302		42.51	0.17	42.16	42.76	18446	354	0.1792	1600	2		
9-1_Site86_A3_CalCurve_run_148		43.64	0.02	43.57	44.24	641	0	0.0036	105	1		
9-1_Site86_B3_CalCurve_run_149		43.69	0.04	43.4	44	691	0	0.0045	104	1		
9-1_Site86_C3_CalCurve_run_150		43.77	0.16	43.46	44.11	952	0	0.0065	159	1		
9-1_Site86_D3_CalCurve_run_151		43.76	0.23	43.44	44.07	657	0	0.0045	83	2		
9-1_Site86_E3_CalCurve_run_153		44.07	0.22	43.69	44.29	1547	0	0.0114	242	2		
9-1_Site86_F3_CalCurve_run_154		43.86	0.27	43.46	44.13	4833	0	0.0347	376	3		
9-1_Site86_G3_CalCurve_run_155		43.62	0.21	43.26	43.93	20332	0	0.1425	1671	3		
9-1_Site86_H3_CalCurve_run_156		43.37	0.2	43.07	43.61	81521	2024	0.5678	6847	3		
9-1_Site86_QC3_CalCurve_run_157		44.02	0.18	43.7	44.31	209158	470	1.0202	17259	3		
9-1_Site86_I3_CalCurve_run_158		43.42	0.22	43.13	43.76	374530	3943	2.5695	27080	3		
9-1_Site86_J3_CalCurve_run_159		43.33	0.26	43.08	43.63	1703541	16030	10.5005	10007	3		

Please help 😊

All my data can be found on nist server
in this folder:

