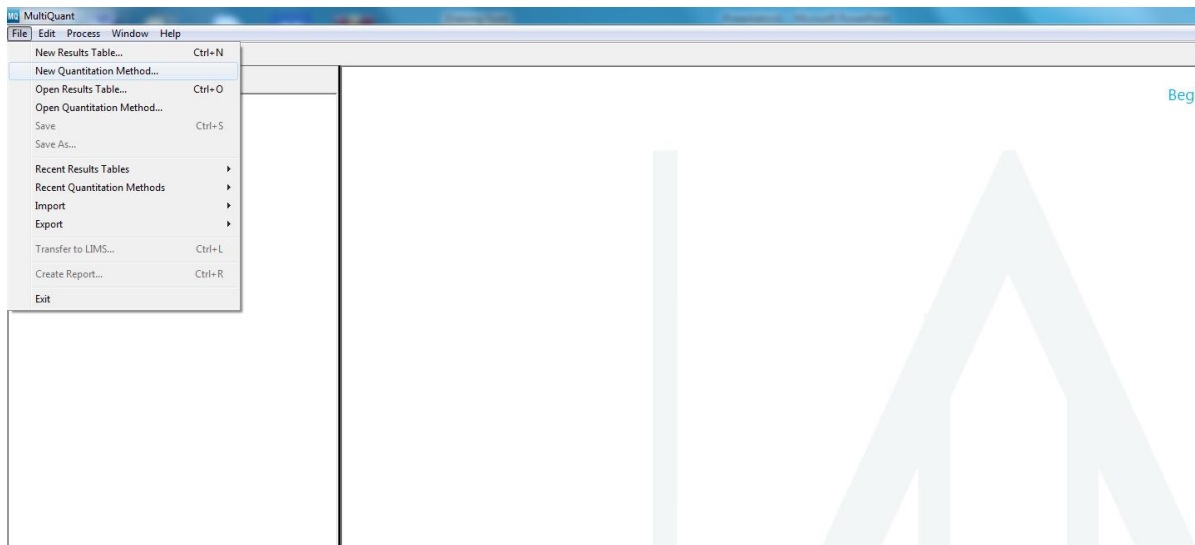


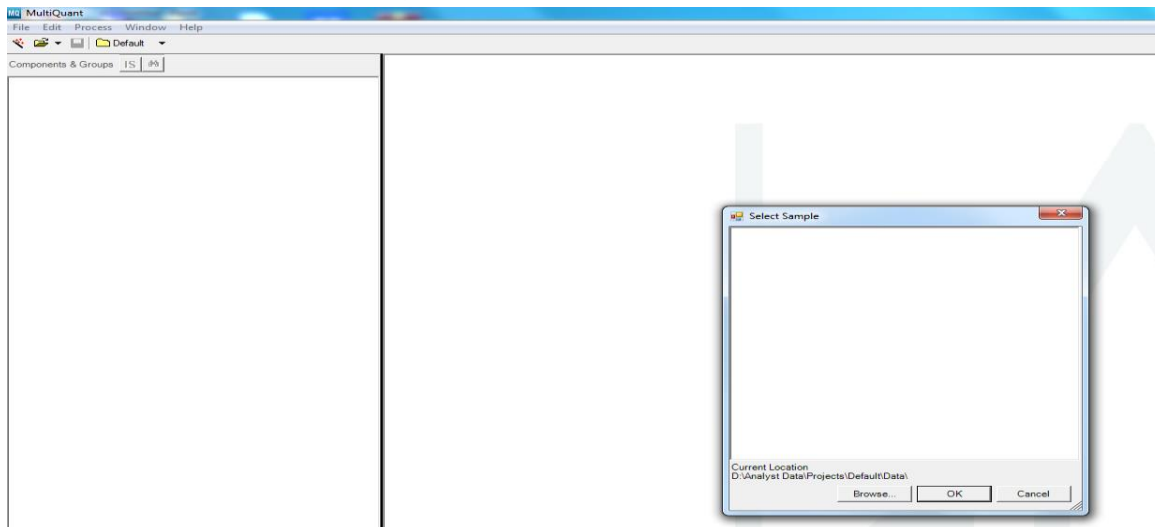


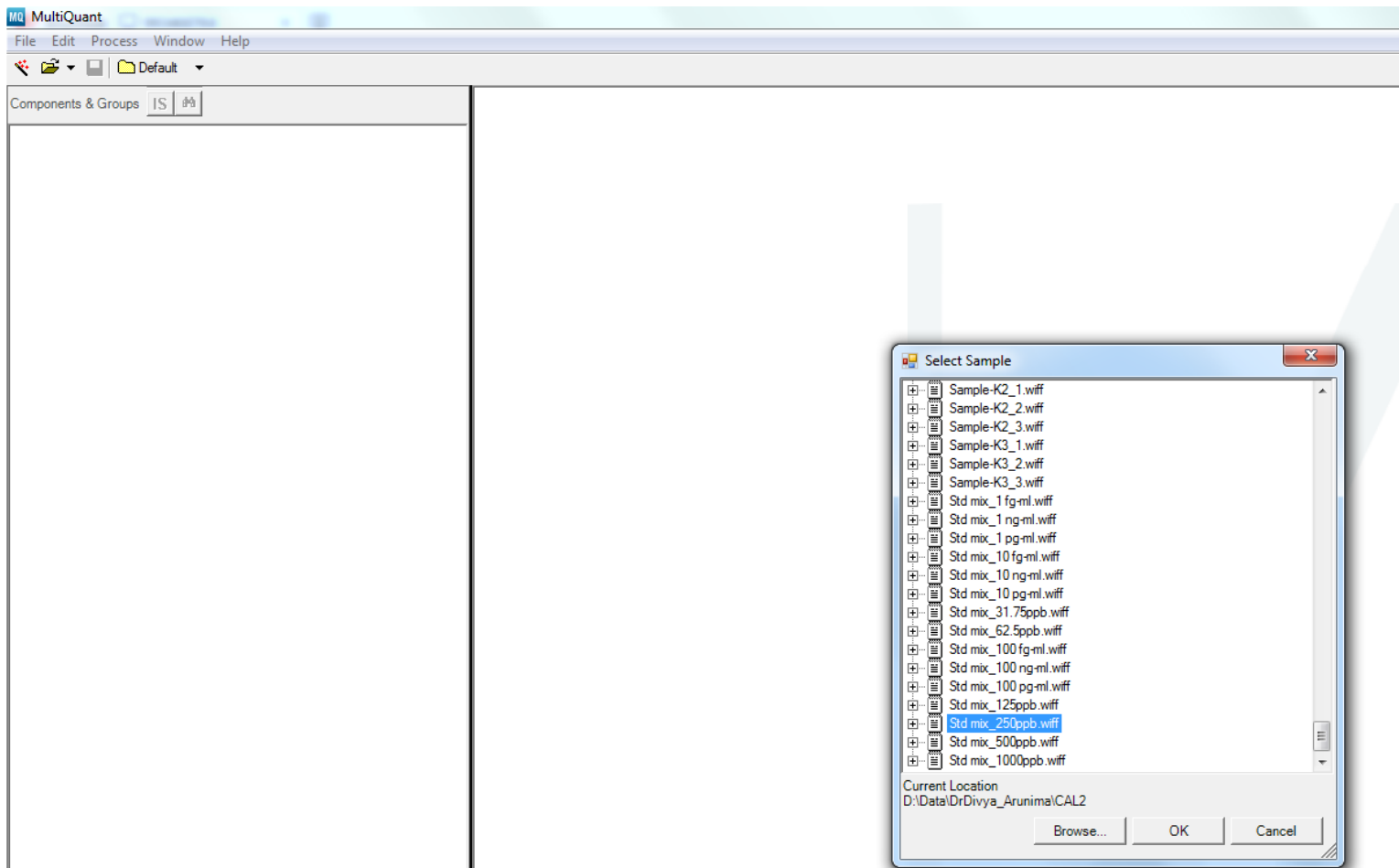
## Multiquant for quantification of small molecules

1. Open **Multiquant**
2. You need to create two things; **New quantitation method** and **New results table**  
Go to **File > New quantitation method**



3. **Browse** your data files and pick any file in the medium concentration range.





- Before selecting this file, make sure to check the chromatogram, peak shape RT etc. as your method will be based on this particular file.

MultiQuant - [MQ4] Untitled Method

File Edit Process Window Help

Components & Groups IS

Components | Integration & Regression | Outlier Settings

Experiment: 1 MRM (14 transitions)

Row	IS	Name	Group	IS Name	Q1 / Q3
1	<input type="checkbox"/>	Naringenin			273.0 / 153.1
2	<input type="checkbox"/>	Naringenin			273.0 / 147.1
3	<input type="checkbox"/>	Liquiritigenin			257.0 / 137.0
4	<input type="checkbox"/>	Liquiritigenin			257.0 / 147.0
5	<input type="checkbox"/>	Daidzein			255.0 / 199.1
6	<input type="checkbox"/>	Daidzein			255.0 / 181.0
7	<input type="checkbox"/>	Formononetin			269.0 / 237.0
8	<input type="checkbox"/>	Formononetin			269.0 / 197.0
9	<input type="checkbox"/>	AGPA-13			299.0 / 267.0
10	<input type="checkbox"/>	AGPA-13			299.0 / 148.0
11	<input type="checkbox"/>	AGPA-14			285.0 / 225.1
12	<input type="checkbox"/>	AGPA-14			285.0 / 213.1
13	<input type="checkbox"/>	Biochanin A			285.0 / 225.1 (2)
14	<input type="checkbox"/>	Biochanin A			285.0 / 213.0
15	<input type="checkbox"/>				

- A list of all the standards and their transitions from .wiff file will be displayed
- Replicate names corresponds to the number of transitions used for one single molecule.
- But in order to process further, you need to edit the name like Naringenin, Naringenin\_1 etc.

Components | Integration & Regression | Outlier Settings

Experiment: 1 MRM (14 transitions)

Row	IS	Name
1	<input type="checkbox"/>	Naringenin
2	<input type="checkbox"/>	Naringenin_1
3	<input type="checkbox"/>	Liquiritigenin
4	<input type="checkbox"/>	Liquiritigenin_1
5	<input type="checkbox"/>	Daidzein
6	<input type="checkbox"/>	Daidzein_1
7	<input type="checkbox"/>	Formononetin
8	<input type="checkbox"/>	Formononetin_1
9	<input type="checkbox"/>	AGPA-13
10	<input type="checkbox"/>	AGPA-13_1
11	<input type="checkbox"/>	AGPA-14
12	<input type="checkbox"/>	AGPA-14_1
13	<input type="checkbox"/>	Biochanin A
14	<input type="checkbox"/>	Biochanin A_1
15	<input type="checkbox"/>	

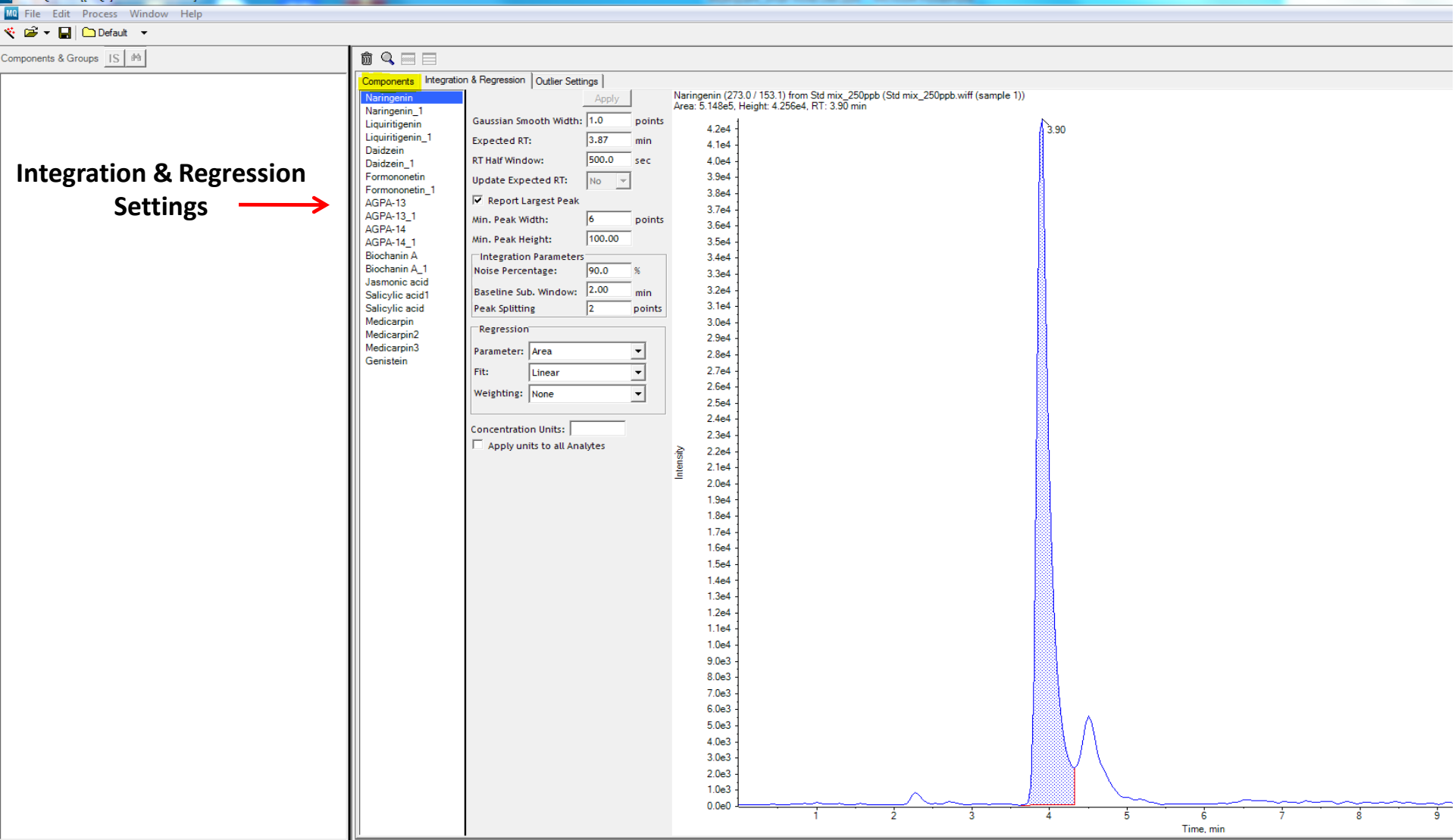
In the Experiment Tab, depending upon your experiment and information in the .wiff file, it will display transitions in the positive mode and in the negative mode. Click the drop down box

Row	IS	Name	Group	IS Name	Q1 / Q3
1	<input type="checkbox"/>	Naringenin			273.0 / 153.1
2	<input type="checkbox"/>	Naringenin_1			273.0 / 147.1
3	<input type="checkbox"/>	Liquiritigenin			257.0 / 137.0
4	<input type="checkbox"/>	Liquiritigenin_1			257.0 / 147.0
5	<input type="checkbox"/>	Daidzein			255.0 / 199.1
6	<input type="checkbox"/>	Daidzein_1			255.0 / 181.0
7	<input type="checkbox"/>	Formononetin			269.0 / 237.0
8	<input type="checkbox"/>	Formononetin_1			269.0 / 197.0
9	<input type="checkbox"/>	AGPA-13			299.0 / 267.0
10	<input type="checkbox"/>	AGPA-13_1			299.0 / 148.0
11	<input type="checkbox"/>	AGPA-14			285.0 / 225.1
12	<input type="checkbox"/>	AGPA-14_1			285.0 / 213.1
13	<input type="checkbox"/>	Biochanin A			285.0 / 225.1 (2)
14	<input type="checkbox"/>	Biochanin A_1			285.0 / 213.0
15	<input type="checkbox"/>				

- You can also assign groups to the same set of molecules
- Check the IS box if any of the listed molecule was used as Internal standard

Row	IS	Name	Group
1	<input type="checkbox"/>	Naringenin	
2	<input type="checkbox"/>	Naringenin_1	
3	<input type="checkbox"/>	Liquiritigenin	
4	<input type="checkbox"/>	Liquiritigenin_1	
5	<input type="checkbox"/>	Daidzein	
6	<input type="checkbox"/>	Daidzein_1	
7	<input type="checkbox"/>	Formononetin	
8	<input type="checkbox"/>	Formononetin_1	
9	<input type="checkbox"/>	AGPA-13	
10	<input type="checkbox"/>	AGPA-13_1	
11	<input type="checkbox"/>	AGPA-14	
12	<input type="checkbox"/>	AGPA-14_1	
13	<input type="checkbox"/>	Biochanin A	
14	<input type="checkbox"/>	Biochanin A_1	

•Next go to Integration & Regression settings



- You can click on one component at a time and fill in the values for all the settings like smoothening, RT half window, Noise percentage etc.
- All these values will depend on the peak properties.
- Regression settings are used for plotting the calibration curve.
- Fill in the concentration units (eg. ng/ml, ppm etc.). Depends on the concentration of the standards prepared.

# Outlier settings

Components | Integration & Regression | **Outlier Settings**

Accuracy for Standards

Max. Accuracy Tolerance for LLOQ (lowest Std):  %

Max. Accuracy Tolerance for Stds except LLOQ:  %

Accuracy for QCs

Max. Accuracy Tolerance for QC:  %

Ion Ratio     Calculated Concentration

Component	Lower Limit of Calculated Concentration	Upper Limit of Calculated Concentration
▶ Naringenin		
Naringenin_1		
Liquiritigenin		
Liquiritigenin_1		
Daidzein		
Daidzein_1		
Formononetin		
Formononetin_1		
AGPA-13		
AGPA-13_1		
AGPA-14		
AGPA-14_1		
Biochanin A		
Biochanin A_1		
Jasmonic acid		
Salicylic acid1		
Salicylic acid		
Medicarpin		
Medicarpin2		
Medicarpin3		
Genistein		

Outlier settings are used if you need your results within a certain range like in Quality control

**Save method;**  
 Go to File> Save As> Give name to your method

The screenshot shows the MultiQuant software interface. The 'File' menu is open, highlighting 'Save As...'. The 'Integration & Regression' settings panel is visible, showing accuracy tolerance settings for standards and QCs. Below the settings is a table with columns for Component, Lower Limit of Calculated Concentration, and Upper Limit of Calculated Concentration.

**File Menu:**

- New Results Table... Ctrl+N
- New Quantitation Method...
- Open Results Table... Ctrl+O
- Open Quantitation Method...
- Save Ctrl+S
- Save As...**
- Recent Results Tables >
- Recent Quantitation Methods >
- Import >
- Export >
- Transfer to LIMS... Ctrl+L
- Create Report... Ctrl+R
- Exit

**Integration & Regression Settings:**

- Accuracy for Standards
  - Max. Accuracy Tolerance for LLOQ (lowest Std):  %
  - Max. Accuracy Tolerance for Stds except LLOQ:  %
- Accuracy for QCs
  - Max. Accuracy Tolerance for QC:  %
- Ion Ratio
- Calculated Concentration

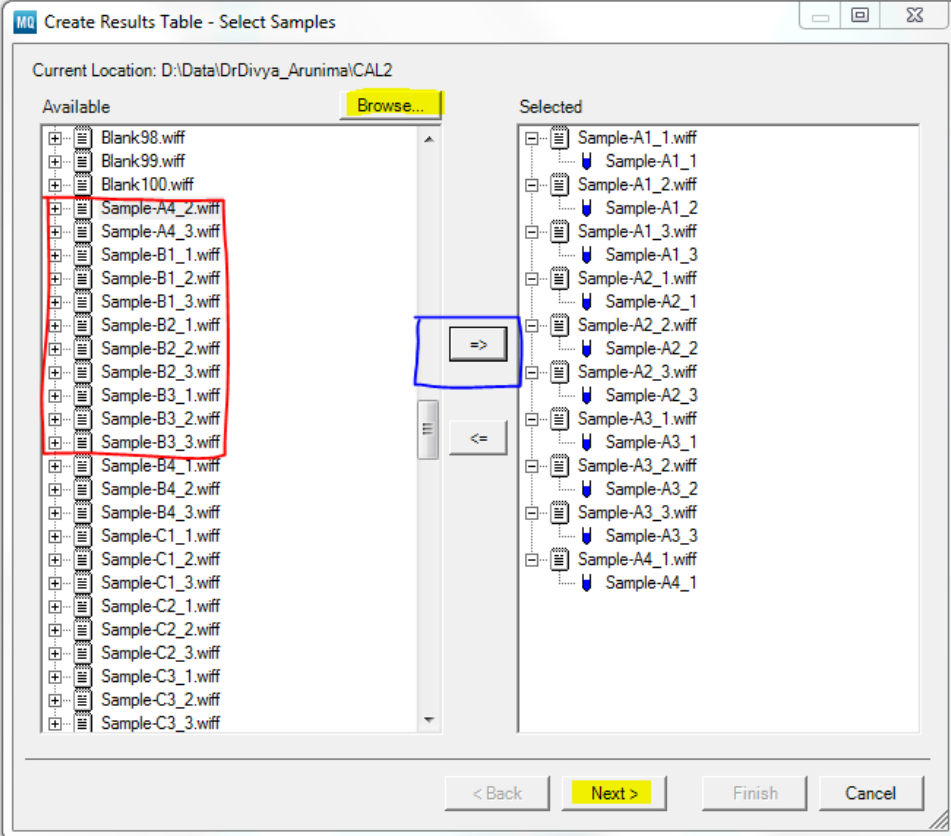
**Table:**

Component	Lower Limit of Calculated Concentration	Upper Limit of Calculated Concentration
▶ Naringenin		
Naringenin_1		
Liquiritigenin		
Liquiritigenin_1		
Daidzein		
Daidzein_1		
Formononetin		
Formononetin_1		
AGPA-13		
AGPA-13_1		
AGPA-14		
AGPA-14_1		
Biochanin A		
Biochanin A_1		
Jasmonic acid		
Salicylic acid1		
Salicylic acid		
Medicarpin		
Medicarpin2		
Medicarpin3		
Genistein		



## Creating Results Table:

Go to File> New Results table>



MultiQuant

File Edit Process Window Help

Components & Groups IS

- Select samples box will open
- Browse your sample files
- Click on files in which quantitation is needed
- Click on the forward arrow to put them in the selected side
- Click Next

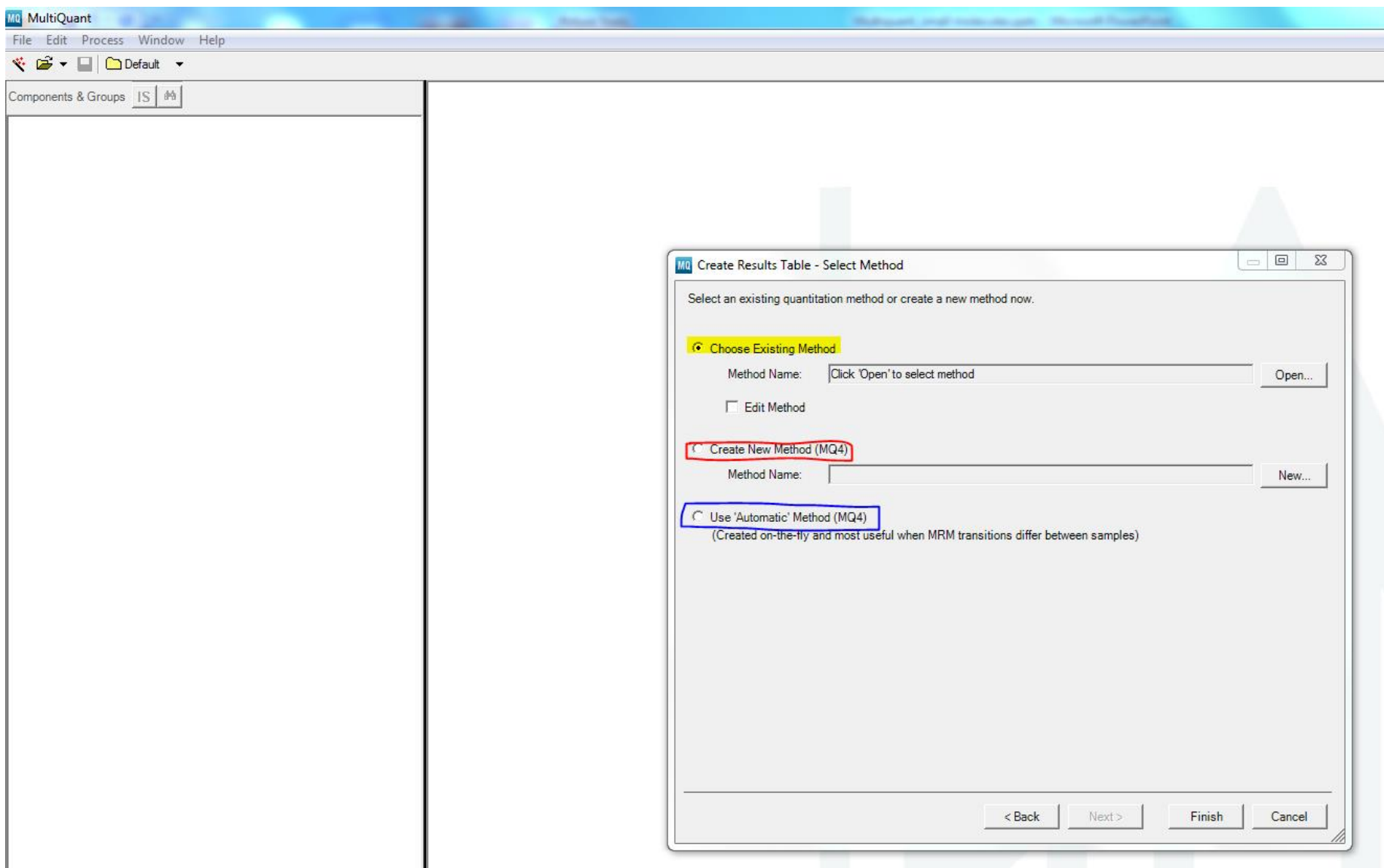
Current Location: D:\Data\DrDivya\_Arunima\CAL2

Available Browse...

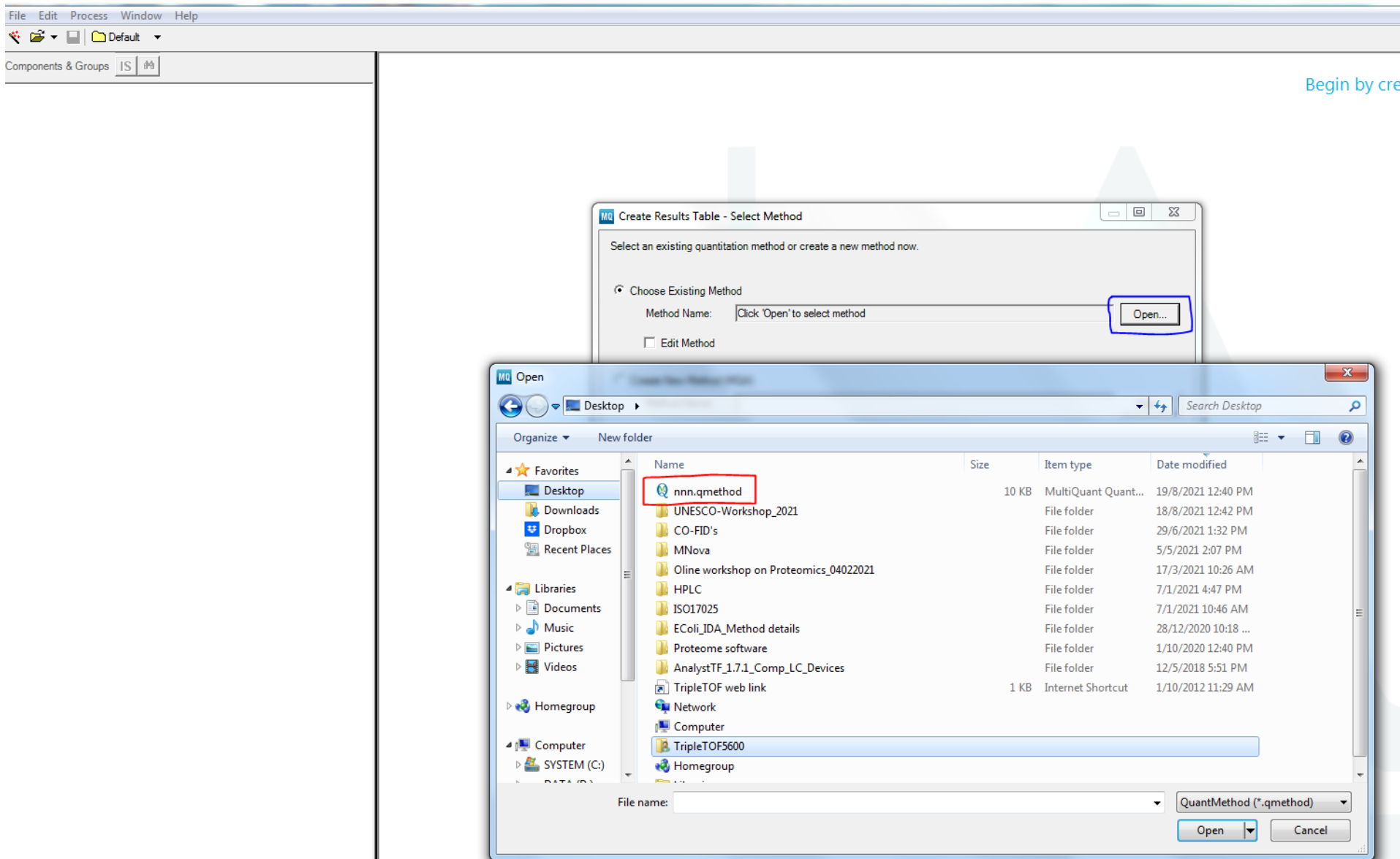
Selected

< Back **Next >** Finish Cancel

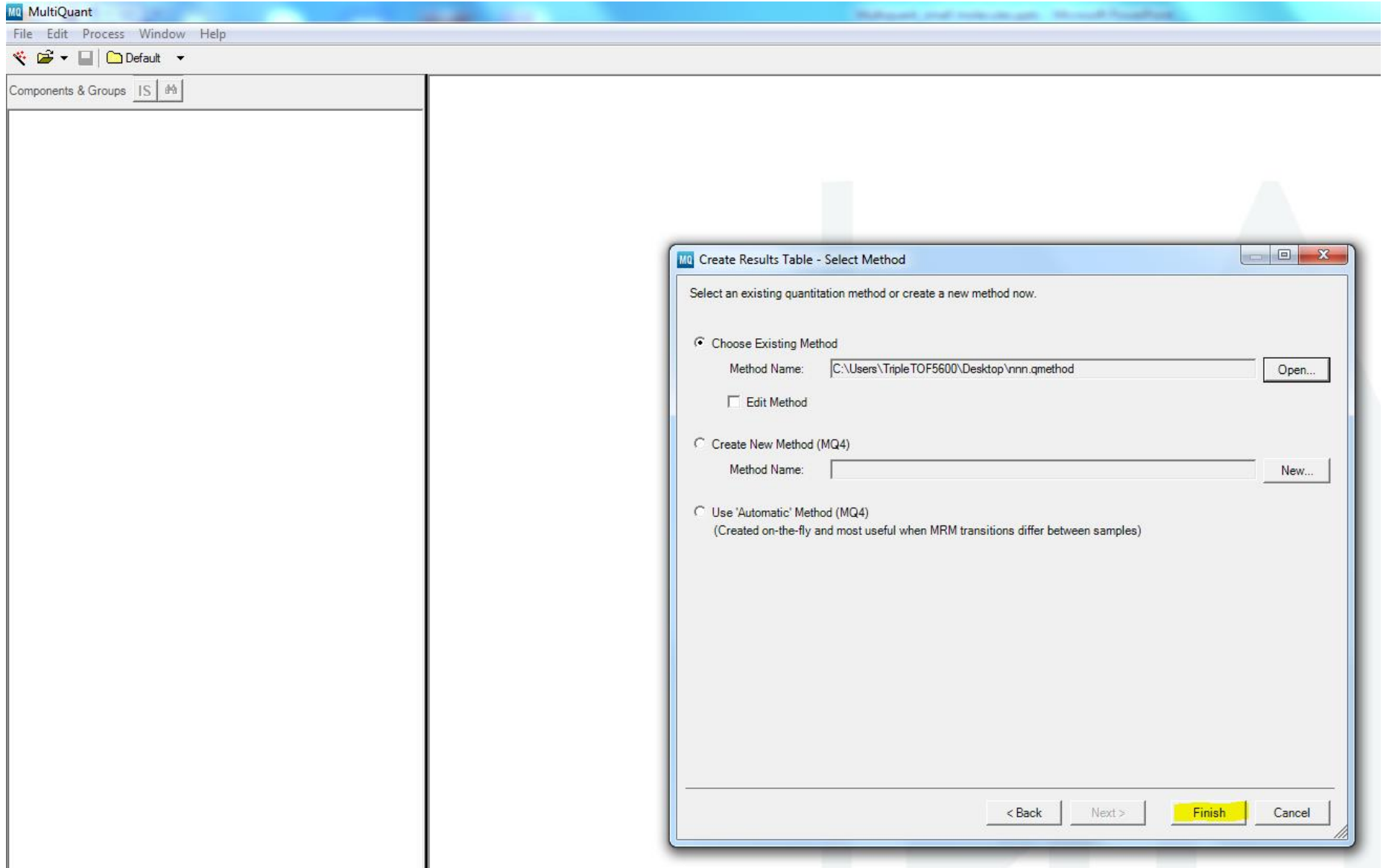
- Choose the method already created to process your sample files
- Check the “Create New Method” if the method was not created and saved before
- Automatic methods are generally experiment specific. In case of Lipids we can use it



- Click “ Open” to browse the saved method
- Method saved will have .qmethod as extension



- Click “Finish”



# Results Table

MultiQuant - [[MQ4] Results Table (Untitled)]

File Edit Process Window Help

Components & Groups IS

All Components

Naringenin  
Naringenin\_1  
Liquiritigenin  
Liquiritigenin\_1  
Daidzein  
Daidzein\_1  
Formononetin  
Formononetin\_1  
AGPA-13  
AGPA-13\_1  
AGPA-14  
AGPA-14\_1  
Biochanin A  
Biochanin A\_1  
Jasmonic acid  
Salicylic acid1  
Salicylic acid  
Medicarpin  
Medicarpin2  
Medicarpin3  
Genistein

Index	Sample Name	Sample Type	Component Name	Conc. Units	Actual Concentration	Area	Retention Time	Signal / Noise	Used	Calculated Concentration	Accuracy
1	Sample-A1_1	Unknown	Naringenin	ng/ml	N/A	57944.312	3.90	44.1	<input checked="" type="checkbox"/>	<2 points	N/A
2	Sample-A1_1	Unknown	Naringenin_1	ng/ml	N/A	26246.623	3.91	42.7	<input checked="" type="checkbox"/>	<2 points	N/A
3	Sample-A1_1	Unknown	Liquiritigenin	ng/ml	N/A	198915.008	1.28	77.1	<input checked="" type="checkbox"/>	<2 points	N/A
4	Sample-A1_1	Unknown	Liquiritigenin_1	ng/ml	N/A	2421.729	1.90	7.1	<input checked="" type="checkbox"/>	<2 points	N/A
5	Sample-A1_1	Unknown	Daidzein	ng/ml	N/A	4175.855	1.42	9.9	<input checked="" type="checkbox"/>	<2 points	N/A
6	Sample-A1_1	Unknown	Daidzein_1	ng/ml	N/A	35078.988	0.53	47.1	<input checked="" type="checkbox"/>	<2 points	N/A
7	Sample-A1_1	Unknown	Formononetin	ng/ml	N/A	14530.269	4.66	24.6	<input checked="" type="checkbox"/>	<2 points	N/A
8	Sample-A1_1	Unknown	Formononetin_1	ng/ml	N/A	3964.486	4.77	16.7	<input checked="" type="checkbox"/>	<2 points	N/A
9	Sample-A1_1	Unknown	AGPA-13	ng/ml	N/A	23923.635	0.25	14.2	<input checked="" type="checkbox"/>	<2 points	N/A
10	Sample-A1_1	Unknown	AGPA-13_1	ng/ml	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>	N/A	N/A
11	Sample-A1_1	Unknown	AGPA-14	ng/ml	N/A	10220.028	2.12	10.5	<input checked="" type="checkbox"/>	<2 points	N/A
12	Sample-A1_1	Unknown	AGPA-14_1	ng/ml	N/A	7394.700	3.25	32.5	<input checked="" type="checkbox"/>	<2 points	N/A
13	Sample-A1_1	Unknown	Biochanin A	ng/ml	N/A	16919.926	1.49	16.6	<input checked="" type="checkbox"/>	<2 points	N/A
14	Sample-A1_1	Unknown	Biochanin A_1	ng/ml	N/A	8648.276	3.27	29.1	<input checked="" type="checkbox"/>	<2 points	N/A
15	Sample-A1_1	Unknown	Jasmonic acid	ng/ml	N/A	264020.400	0.64	105.9	<input checked="" type="checkbox"/>	<2 points	N/A
16	Sample-A1_1	Unknown	Salicylic acid1	ng/ml	N/A	6493347.8	2.98	75.3	<input checked="" type="checkbox"/>	<2 points	N/A
17	Sample-A1_1	Unknown	Salicylic acid	ng/ml	N/A	226099.015	2.97	72.9	<input checked="" type="checkbox"/>	<2 points	N/A
18	Sample-A1_1	Unknown	Medicarpin	ng/ml	N/A	9364.837	3.86	24.9	<input checked="" type="checkbox"/>	<2 points	N/A
19	Sample-A1_1	Unknown	Medicarpin2	ng/ml	N/A	41273.897	3.86	38.8	<input checked="" type="checkbox"/>	<2 points	N/A
20	Sample-A1_1	Unknown	Medicarpin3	ng/ml	N/A	42495.829	3.87	38.4	<input checked="" type="checkbox"/>	<2 points	N/A
21	Sample-A1_1	Unknown	Genistein	ng/ml	N/A	56148.776	0.55	17.2	<input checked="" type="checkbox"/>	<2 points	N/A
22	Sample-A1_2	Unknown	Naringenin	ng/ml	N/A	62806.123	3.92	45.8	<input checked="" type="checkbox"/>	<2 points	N/A
23	Sample-A1_2	Unknown	Naringenin_1	ng/ml	N/A	28749.339	3.92	41.9	<input checked="" type="checkbox"/>	<2 points	N/A
24	Sample-A1_2	Unknown	Liquiritigenin	ng/ml	N/A	201106.267	1.28	98.4	<input checked="" type="checkbox"/>	<2 points	N/A
25	Sample-A1_2	Unknown	Liquiritigenin_1	ng/ml	N/A	2785.726	1.37	7.5	<input checked="" type="checkbox"/>	<2 points	N/A
26	Sample-A1_2	Unknown	Daidzein	ng/ml	N/A	3124.487	1.69	7.6	<input checked="" type="checkbox"/>	<2 points	N/A
27	Sample-A1_2	Unknown	Daidzein_1	ng/ml	N/A	30851.577	0.53	46.7	<input checked="" type="checkbox"/>	<2 points	N/A
28	Sample-A1_2	Unknown	Formononetin	ng/ml	N/A	10825.916	4.63	23.6	<input checked="" type="checkbox"/>	<2 points	N/A
29	Sample-A1_2	Unknown	Formononetin_1	ng/ml	N/A	4753.024	4.78	27.6	<input checked="" type="checkbox"/>	<2 points	N/A
30	Sample-A1_2	Unknown	AGPA-13	ng/ml	N/A	25983.315	0.22	16.6	<input checked="" type="checkbox"/>	<2 points	N/A
31	Sample-A1_2	Unknown	AGPA-13_1	ng/ml	N/A	3019.124	2.21	13.7	<input checked="" type="checkbox"/>	<2 points	N/A
32	Sample-A1_2	Unknown	AGPA-14	ng/ml	N/A	18420.160	1.39	12.0	<input checked="" type="checkbox"/>	<2 points	N/A
33	Sample-A1_2	Unknown	AGPA-14_1	ng/ml	N/A	8228.907	3.28	34.6	<input checked="" type="checkbox"/>	<2 points	N/A
34	Sample-A1_2	Unknown	Biochanin A	ng/ml	N/A	12511.620	1.44	12.7	<input checked="" type="checkbox"/>	<2 points	N/A
35	Sample-A1_2	Unknown	Biochanin A_1	ng/ml	N/A	7220.319	3.26	39.9	<input checked="" type="checkbox"/>	<2 points	N/A
36	Sample-A1_2	Unknown	Jasmonic acid	ng/ml	N/A	252206.131	0.64	83.1	<input checked="" type="checkbox"/>	<2 points	N/A
37	Sample-A1_2	Unknown	Salicylic acid1	ng/ml	N/A	6502551.3	2.99	73.1	<input checked="" type="checkbox"/>	<2 points	N/A
38	Sample-A1_2	Unknown	Salicylic acid	ng/ml	N/A	221189.501	2.98	70.0	<input checked="" type="checkbox"/>	<2 points	N/A
39	Sample-A1_2	Unknown	Medicarpin	ng/ml	N/A	15615.670	3.87	38.4	<input checked="" type="checkbox"/>	<2 points	N/A
40	Sample-A1_2	Unknown	Medicarpin2	ng/ml	N/A	45708.699	2.63	32.1	<input checked="" type="checkbox"/>	<2 points	N/A

View the peaks and integration parameters

View the calibration curve

Fill in the standard concentrations used

All Components

- Naringenin
- Naringenin\_1
- Liquiritigenin
- Liquiritigenin\_1
- Daidzein
- Daidzein\_1
- Formononetin
- Formononetin\_1
- AGPA-13
- AGPA-13\_1
- AGPA-14
- AGPA-14\_1
- Biochanin A
- Biochanin\_A\_1
- Jasmonic acid
- Salicylic acid1
- Salicylic acid
- Medicarpin
- Medicarpin2
- Medicarpin3
- Genistein

Index	Sample Name	Sample Type	Component Name	Conc. Units	Actual Concentration	Area	Retention Time	Signal / Noise	Used	Calculated Concentration	Accuracy
1	Sample-A1_1	Unknown	Naringenin	ng/ml	N/A	57944.312	3.90	44.1	<input checked="" type="checkbox"/>	<2 points	N/A
2	Sample-A1_1	Unknown	Naringenin_1	ng/ml	N/A	26246.623	3.91	42.7	<input checked="" type="checkbox"/>	<2 points	N/A
3	Sample-A1_1	Unknown	Liquiritigenin	ng/ml	N/A	198915.008	1.28	77.1	<input checked="" type="checkbox"/>	<2 points	N/A
4	Sample-A1_1	Unknown	Liquiritigenin_1	ng/ml	N/A	2421.729	1.90	7.1	<input checked="" type="checkbox"/>	<2 points	N/A
5	Sample-A1_1	Unknown	Daidzein	ng/ml	N/A	4175.855	1.42	9.9	<input checked="" type="checkbox"/>	<2 points	N/A
6	Sample-A1_1	Unknown	Daidzein_1	ng/ml	N/A	35078.988	0.53	47.1	<input checked="" type="checkbox"/>	<2 points	N/A
7	Sample-A1_1	Unknown	Formononetin	ng/ml	N/A	14530.269	4.66	24.6	<input checked="" type="checkbox"/>	<2 points	N/A
8	Sample-A1_1	Unknown	Formononetin_1	ng/ml	N/A	3964.486	4.77	16.7	<input checked="" type="checkbox"/>	<2 points	N/A
9	Sample-A1_1	Unknown	AGPA-13	ng/ml	N/A	23923.635	0.25	14.2	<input checked="" type="checkbox"/>	<2 points	N/A
10	Sample-A1_1	Unknown	AGPA-13_1	ng/ml	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>	N/A	N/A
11	Sample-A1_1	Unknown	AGPA-14	ng/ml	N/A	10220.028	2.12	10.5	<input checked="" type="checkbox"/>	<2 points	N/A
12	Sample-A1_1	Unknown	AGPA-14_1	ng/ml	N/A	7394.700	3.25	32.5	<input checked="" type="checkbox"/>	<2 points	N/A
13	Sample-A1_1	Unknown	Biochanin A	ng/ml	N/A	16919.926	1.49	16.6	<input checked="" type="checkbox"/>	<2 points	N/A
14	Sample-A1_1	Unknown	Biochanin_A_1	ng/ml	N/A	8648.276	3.27	29.1	<input checked="" type="checkbox"/>	<2 points	N/A
15	Sample-A1_1	Unknown	Jasmonic acid	ng/ml	N/A	264020.400	0.64	105.9	<input checked="" type="checkbox"/>	<2 points	N/A
16	Sample-A1_1	Unknown	Salicylic acid1	ng/ml	N/A	6493347.8	2.98	75.3	<input checked="" type="checkbox"/>	<2 points	N/A
17	Sample-A1_1	Unknown	Salicylic acid	ng/ml	N/A	226099.015	2.97	72.9	<input checked="" type="checkbox"/>	<2 points	N/A
18	Sample-A1_1	Unknown	Medicarpin	ng/ml	N/A	9364.837	3.86	24.9	<input checked="" type="checkbox"/>	<2 points	N/A
19	Sample-A1_1	Unknown	Medicarpin2	ng/ml	N/A	41273.897	3.86	38.8	<input checked="" type="checkbox"/>	<2 points	N/A
20	Sample-A1_1	Unknown	Medicarpin3	ng/ml	N/A	42495.829	3.87	38.4	<input checked="" type="checkbox"/>	<2 points	N/A

Gaussian Smooth Width:  points

Expected RT:  min

RT Half Window:  sec

Update Expected RT:

Report Largest Peak

Min. Peak Width:  points

Min. Peak Height:

Integration Parameters

Noise Percentage:  %

Baseline Sub. Window:  min

Peak Splitting:  points

**Sample-A1\_1 - Naringenin (Unknown) 273.0 / 153.1 - D:\Data\DrDivya\_Aruni...**  
Area: 57944.312, Height: 5.106e3, RT: 3.90 min

Sample-A1\_1 - Naringenin\_1 (Unknown) 273.0 / 147.1 - D:\Data\DrDivya\_Aruni...

Sample-A1\_1 - Liquiritigenin (Unknown) 257.0 / 137.0 - D:\Data\DrDivya\_Aruni...

Sample-A1\_1 - Liquiritigenin\_1 (Unknown) 257.0 / 147.0 - D:\Data\DrDivya\_Aruni...

Sample-A1\_1 - Daidzein (Unknown) 255.0 / 199.1 - D:\Data\DrDivya\_Arunima\C...

Sample-A1\_1 - Daidzein\_1 (Unknown) 255.0 / 181.0 - D:\Data\DrDivya\_Arunima\C...

Peak Review Window

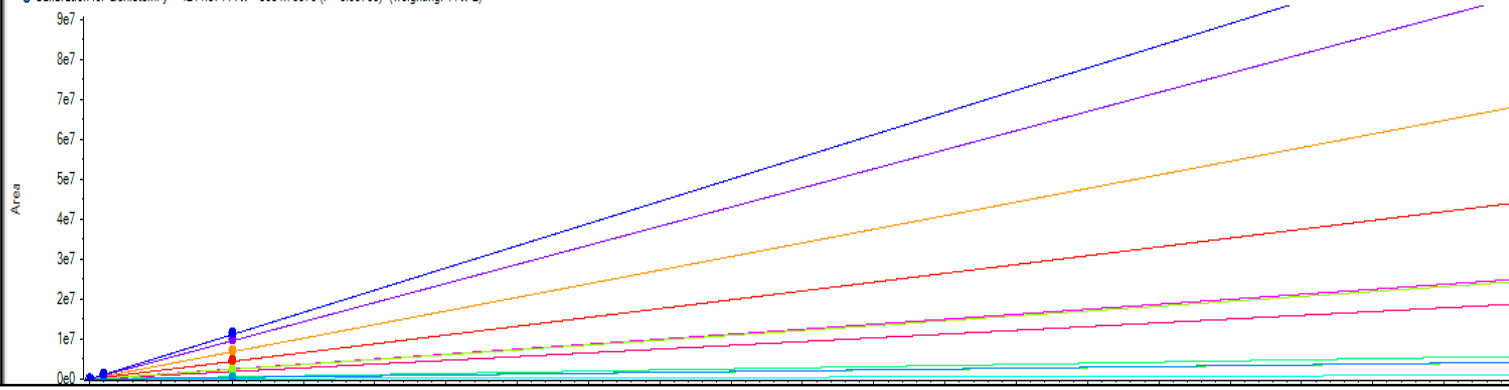


- All Components
- Naringenin
  - Liquiritigenin
  - Daidzein
  - Formononetin
  - 2-methoxyformononetin
  - 2-hydroxyformononetin
  - Biochanin A
  - Jasmonic acid
  - Salicylic acid
  - Medicarpin
  - Genistein

Index	Sample Name	Sample Type	Component Name	Conc. Units	Actual Concentration	Area	Retention Time	Signal / Noise	Used	Calculated Concentration	Accuracy
1	std mix_0.1ppb_1-10	Standard	Naringenin	ng/ml	0.10	25835.882	3.86	29.2	<input type="checkbox"/>	< 0	N/A
2	std mix_0.1ppb_1-10	Standard	Liquiritigenin	ng/ml	0.10	23407.713	3.02	28.0	<input type="checkbox"/>	< 0	N/A
3	std mix_0.1ppb_1-10	Standard	Daidzein	ng/ml	0.10	4586.277	2.85	5.7	<input type="checkbox"/>	< 0	N/A
4	std mix_0.1ppb_1-10	Standard	Formononetin	ng/ml	0.10	5141.946	4.79	19.1	<input type="checkbox"/>	< 0	N/A
5	std mix_0.1ppb_1-10	Standard	2-methoxyformononetin	ng/ml	0.10	14693.126	4.57	64.9	<input type="checkbox"/>	< 0	N/A
6	std mix_0.1ppb_1-10	Standard	2-hydroxyformononetin	ng/ml	0.10	13196.485	4.10	18.2	<input type="checkbox"/>	< 0	N/A
7	std mix_0.1ppb_1-10	Standard	Biochanin A	ng/ml	0.10	3981.709	5.97	17.9	<input type="checkbox"/>	< 0	N/A
8	std mix_0.1ppb_1-10	Standard	Jasmonic acid	ng/ml	0.10	1257.010	4.12	13.1	<input type="checkbox"/>	< 0	N/A
9	std mix_0.1ppb_1-10	Standard	Salicylic acid	ng/ml	0.10	3607.749	3.04	5.3	<input type="checkbox"/>	0.271	271.34
10	std mix_0.1ppb_1-10	Standard	Medicarpin	ng/ml	0.10	623.196	3.63	6.7	<input type="checkbox"/>	< 0	N/A
11	std mix_0.1ppb_1-10	Standard	Genistein	ng/ml	0.10	1055.112	4.32	4.0	<input type="checkbox"/>	< 0	N/A
12	std mix_1ppb_1-10	Standard	Naringenin	ng/ml	1.00	145818.093	3.90	125.8	<input checked="" type="checkbox"/>	0.984	98.45
13	std mix_1ppb_1-10	Standard	Liquiritigenin	ng/ml	1.00	132020.070	3.09	110.8	<input checked="" type="checkbox"/>	0.988	98.82
14	std mix_1ppb_1-10	Standard	Daidzein	ng/ml	1.00	37247.573	2.94	48.5	<input checked="" type="checkbox"/>	0.982	98.20
15	std mix_1ppb_1-10	Standard	Formononetin	ng/ml	1.00	32696.654	4.79	92.9	<input checked="" type="checkbox"/>	0.987	98.73
16	std mix_1ppb_1-10	Standard	2-methoxyformononetin	ng/ml	1.00	65272.568	4.59	331.5	<input checked="" type="checkbox"/>	0.982	98.22
17	std mix_1ppb_1-10	Standard	2-hydroxyformononetin	ng/ml	1.00	98725.165	4.13	93.1	<input checked="" type="checkbox"/>	0.988	98.84
18	std mix_1ppb_1-10	Standard	Biochanin A	ng/ml	1.00	34840.550	5.98	81.9	<input checked="" type="checkbox"/>	0.986	98.61
19	std mix_1ppb_1-10	Standard	Jasmonic acid	ng/ml	1.00	6345.081	4.16	35.4	<input checked="" type="checkbox"/>	0.989	98.94
20	std mix_1ppb_1-10	Standard	Salicylic acid	ng/ml	1.00	7721.918	2.99	17.3	<input checked="" type="checkbox"/>	0.992	99.24

Any deviating concentration value can be excluded

- Calibration for Naringenin:  $y = 1.11106e5x + 3.64389e4$  ( $r = 0.98936$ ) (weighting:  $1/x^2$ )
- Calibration for Liquiritigenin:  $y = 9.55825e4x + 3.75625e4$  ( $r = 0.99408$ ) (weighting:  $1/x^2$ )
- Calibration for Daidzein:  $y = 24964.18578x + 12731.99781$  ( $r = 0.98896$ ) (weighting:  $1/x^2$ )
- Calibration for Formononetin:  $y = 18768.74886x + 14167.16404$  ( $r = 0.99321$ ) (weighting:  $1/x^2$ )
- Calibration for 2-methoxyformononetin:  $y = 4.40886e4x + 21968.36246$  ( $r = 0.98650$ ) (weighting:  $1/x^2$ )
- Calibration for 2-hydroxyformononetin:  $y = 6.80936e4x + 3.14221e4$  ( $r = 0.99267$ ) (weighting:  $1/x^2$ )
- Calibration for Biochanin A:  $y = 24358.59612x + 10821.53068$  ( $r = 0.99323$ ) (weighting:  $1/x^2$ )
- Calibration for Jasmonic acid:  $y = 4179.64080x + 2209.77387$  ( $r = 0.99428$ ) (weighting:  $1/x^2$ )
- Calibration for Salicylic acid:  $y = 5705.55979x + 2059.60138$  ( $r = 0.99659$ ) (weighting:  $1/x^2$ )
- Calibration for Medicarpin:  $y = 993.90006x + 990.26851$  ( $r = 0.99363$ ) (weighting:  $1/x^2$ )
- Calibration for Genistein:  $y = 4211.87114x + 3084.70576$  ( $r = 0.99700$ ) (weighting:  $1/x^2$ )



Cal Curves for all Components

- Regression equation
- Co-relation coefficient