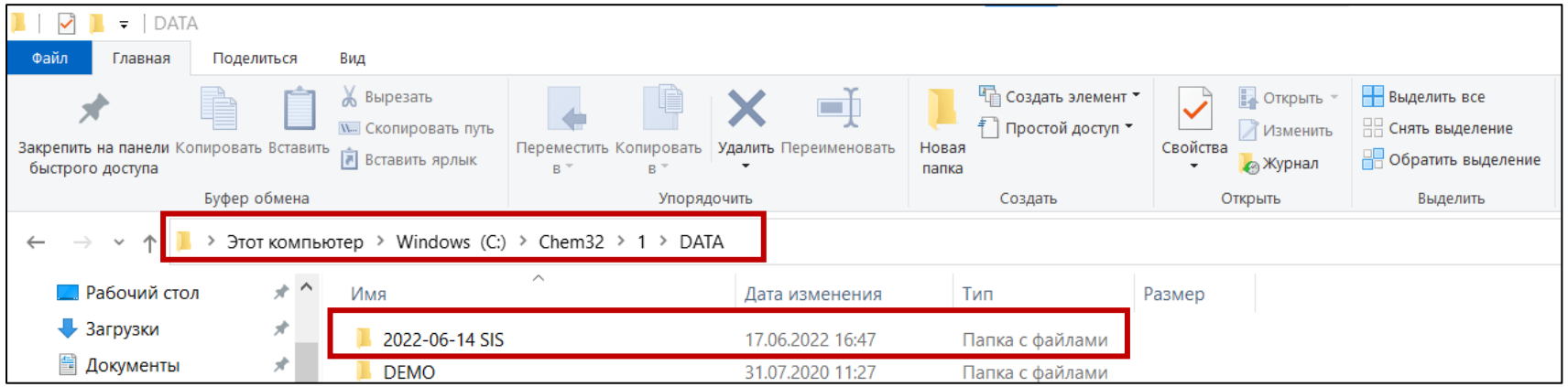
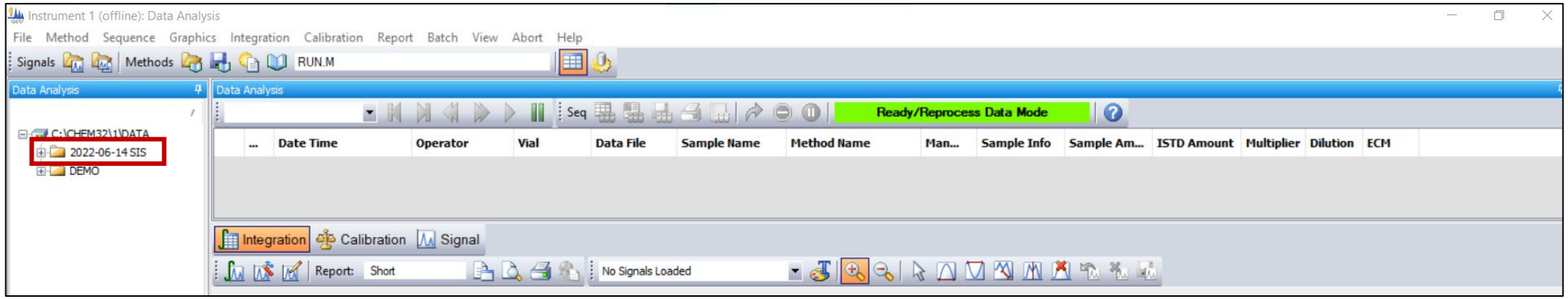
Метод внешнего стандарта

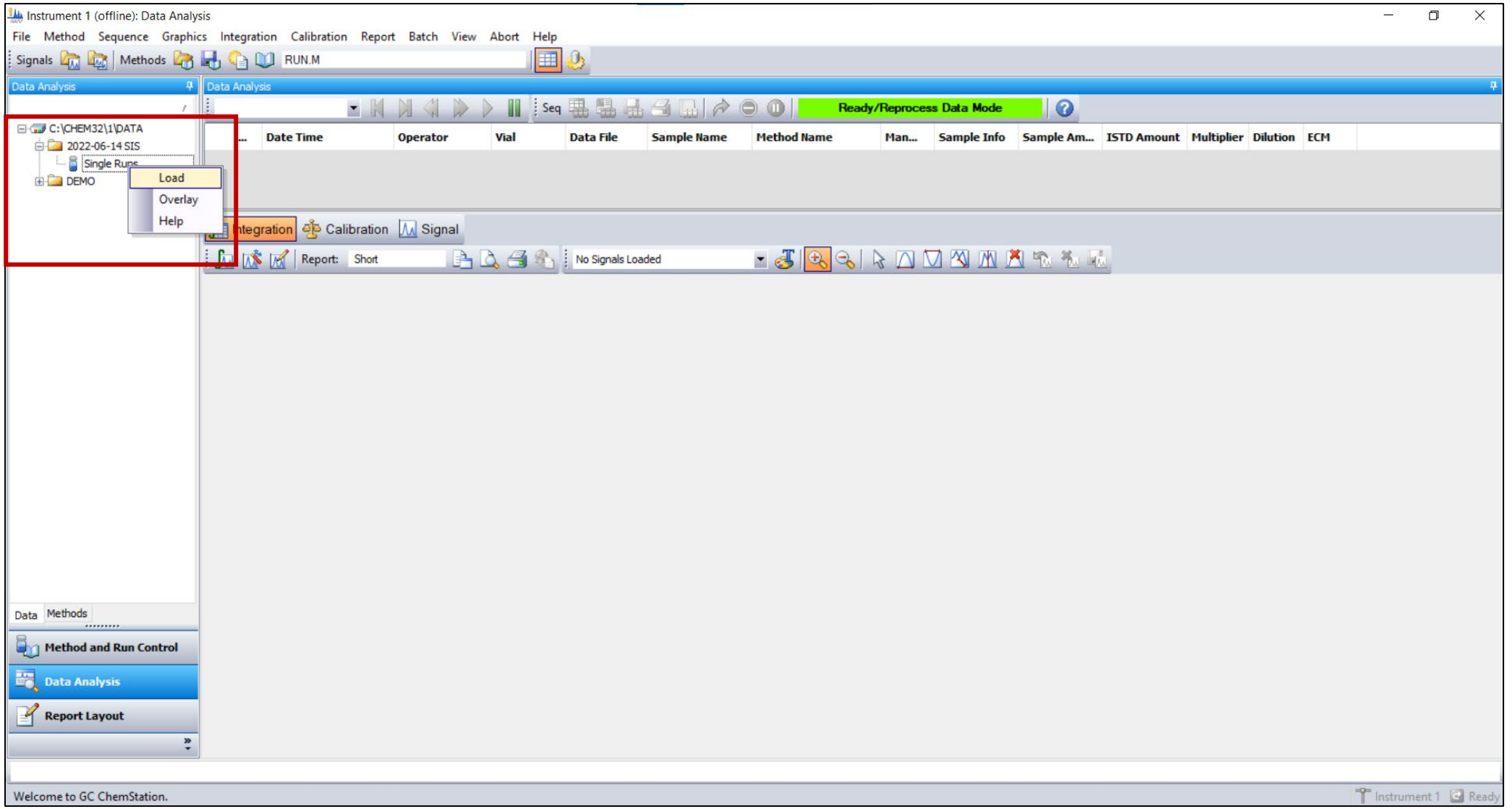
1. Поместить папку с измерениями ChemStation



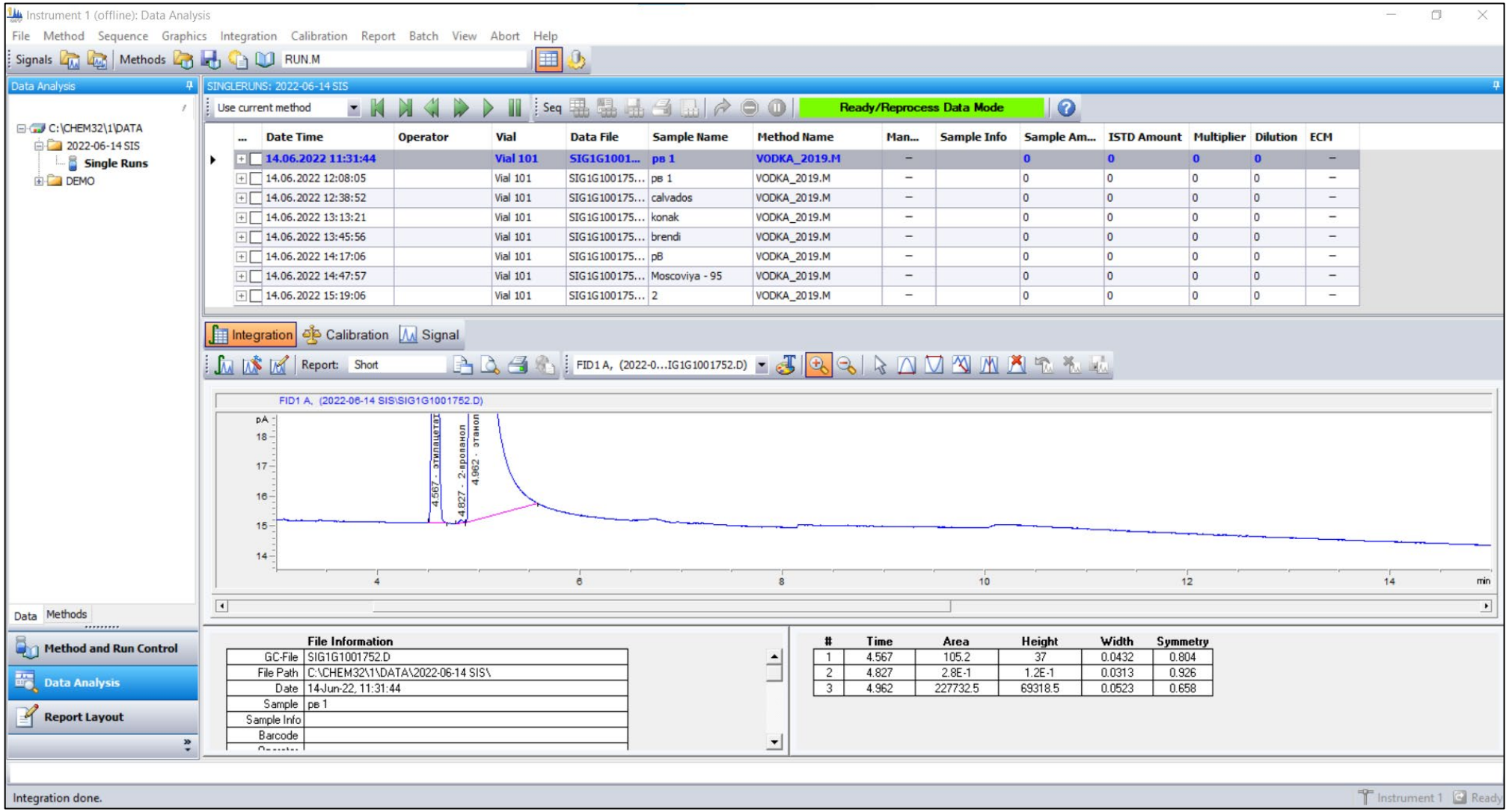
Она появится в ChemStation



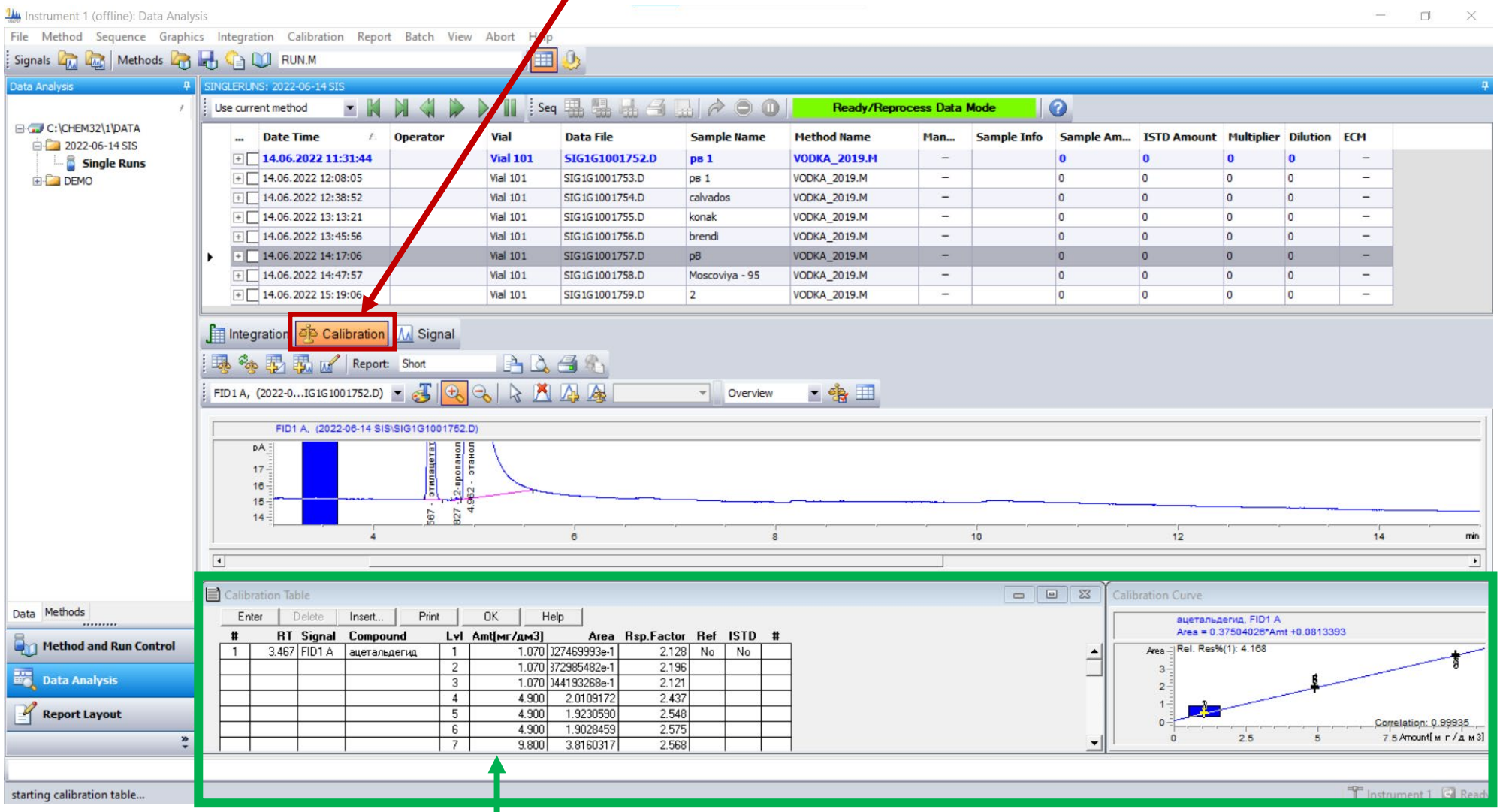
3. Загрузить файлы



3. Появятся файлы



4. Переключить на калибровку

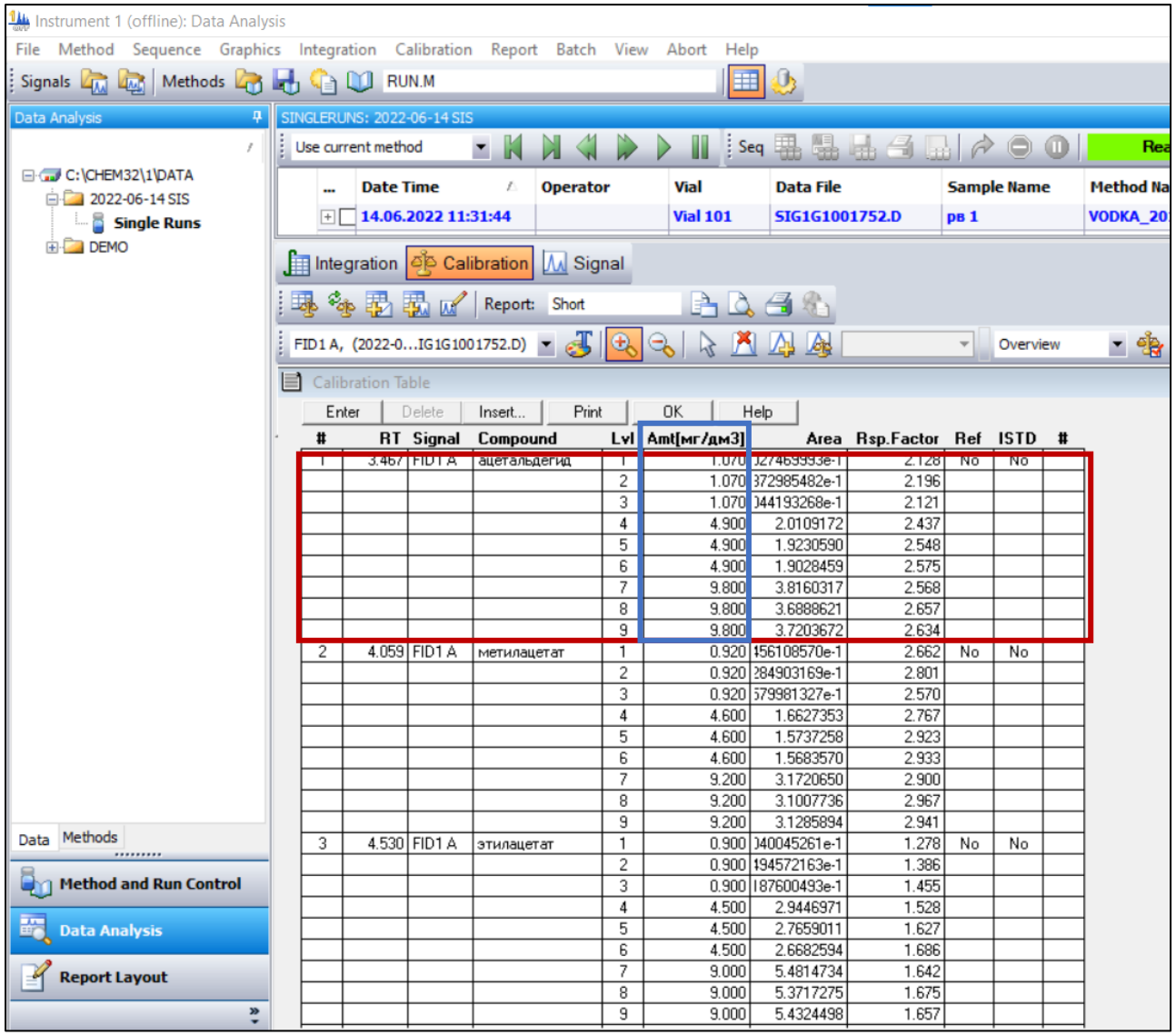


Date Time	Operator	Vial	Data File	Sample Name	Method Name	Man...	Sample Info	Sample Am...	ISTD Amount	Multiplier	Dilution	ECM
14.06.2022 11:31:44		Vial 101	SIG1G1001752.D	рв 1	VODKA_2019.M	–		0	0	0	0	–
14.06.2022 12:08:05		Vial 101	SIG1G1001753.D	рв 1	VODKA_2019.M	–		0	0	0	0	–
14.06.2022 12:38:52		Vial 101	SIG1G1001754.D	calvados	VODKA_2019.M	–		0	0	0	0	–
14.06.2022 13:13:21		Vial 101	SIG1G1001755.D	konak	VODKA_2019.M	–		0	0	0	0	–
14.06.2022 13:45:56		Vial 101	SIG1G1001756.D	brendi	VODKA_2019.M	–		0	0	0	0	–
14.06.2022 14:17:06		Vial 101	SIG1G1001757.D	pB	VODKA_2019.M	–		0	0	0	0	–
14.06.2022 14:47:57		Vial 101	SIG1G1001758.D	Moscoviya - 95	VODKA_2019.M	–		0	0	0	0	–
14.06.2022 15:19:06		Vial 101	SIG1G1001759.D	2	VODKA_2019.M	–		0	0	0	0	–

#	RT	Signal	Compound	Lvl	Amt[мг/дм3]	Area	Rsp.Factor	Ref	ISTD	#
1	3.467	FID1 A	ацетальдегид	1	1.070	)27469993e-1	2.128	No	No	
				2	1.070	372985482e-1	2.196			
				3	1.070	)44193268e-1	2.121			
				4	4.900	2.0109172	2.437			
				5	4.900	1.9230590	2.548			
				6	4.900	1.9028459	2.575			
				7	9.800	3.8160317	2.568			

Появится таблица калибровки

5. В таблице калибровки записаны данные **ИХ ТЕКУЩЕЙ КАЛИБРОВКИ**

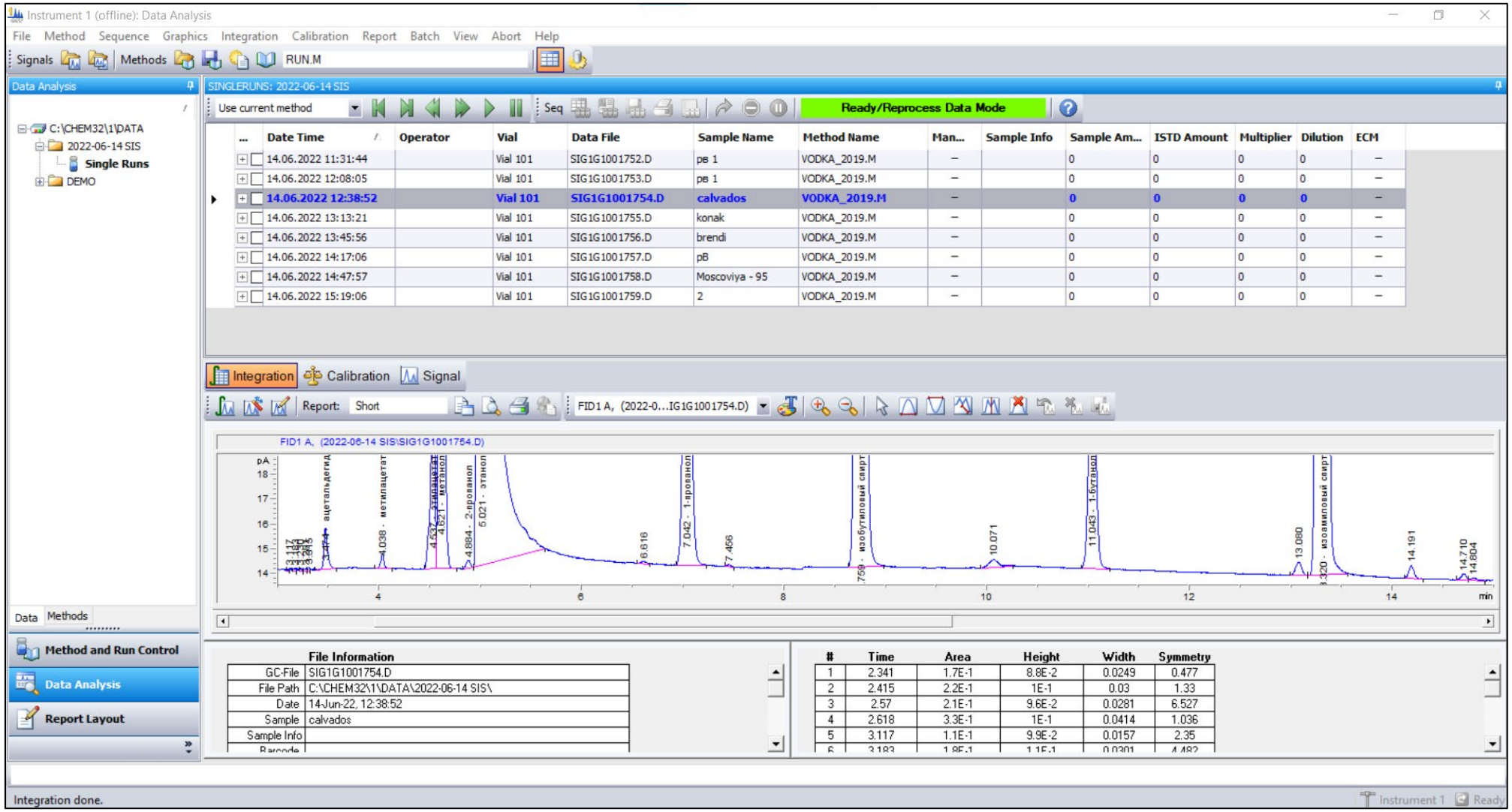


9 измерений:

3 уровня концентраций (мг/дм3)

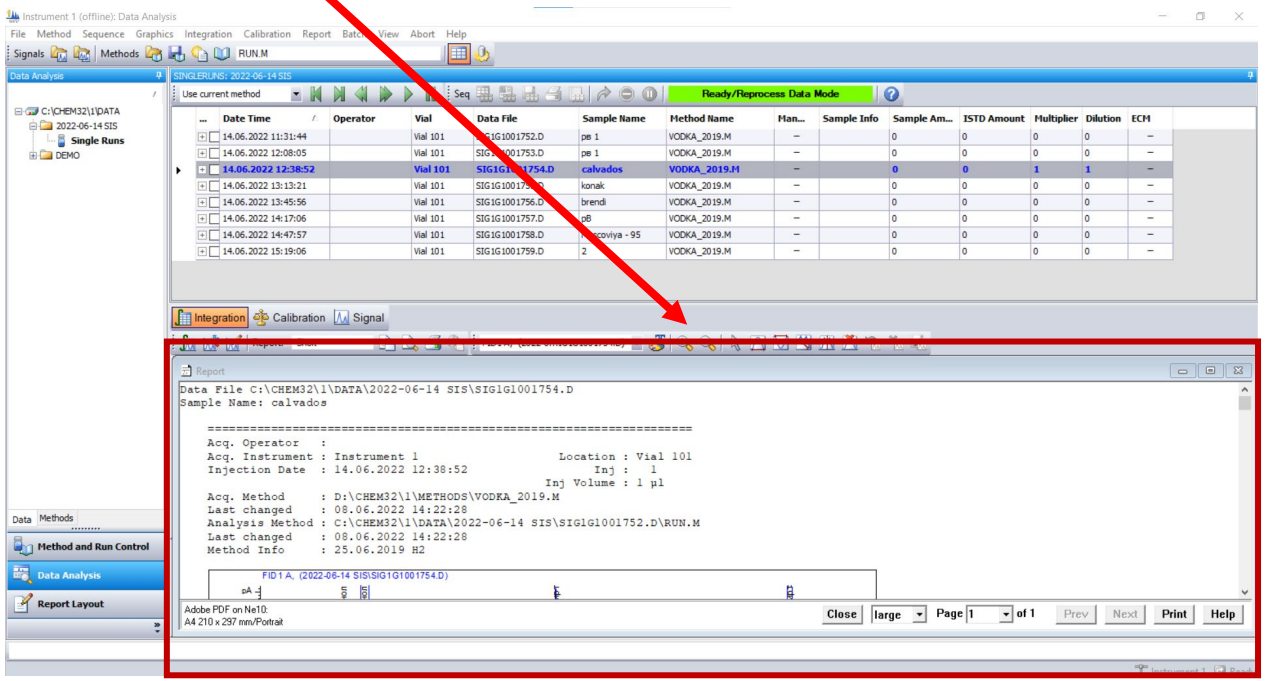
3 измерения одного уровня

6. Выбрать образец «Кальвадос»

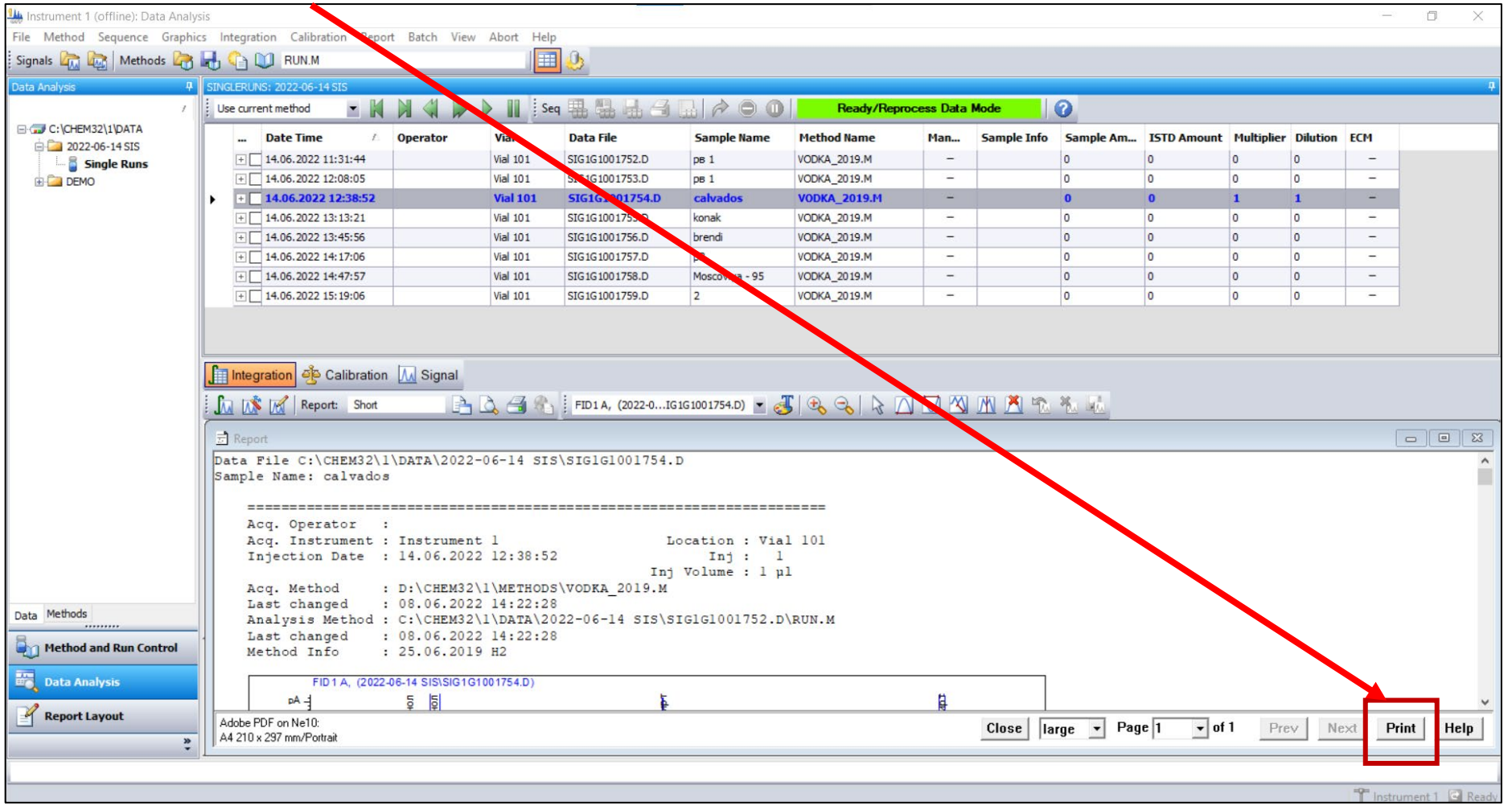


7. Выбрать «Print report»

Отчет появится внизу



8. Нажать «Print» и сохранить как pdf

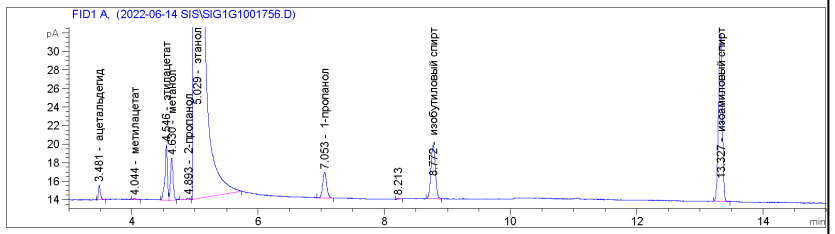


С остальными образцами сделать то же самое

Бренди

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001756.D
Sample Name: brendi

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 13:45:56 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 08.06.2022 14:22:28
Method Info : 25.06.2019 H2



External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, June 08, 2022 3:18:42 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [мг/дм3]	Grp	Name
3.481	VB	3.41524	2.60288	8.88945		ацетальдегид
4.044	VV	4.28908e-1	2.74790	1.17860		метилацетат
4.546	VV	16.22247	1.67409	27.15791		этилацетат
4.630	VV	12.30149	2.27450e-4	2.79797e-3		метанол
4.893	VV	5.92681e-1	1.55269	9.20250e-1		2-пропанол
5.029	VB	S 1.96816e5	2.09954e-4	41.32223		этанол
7.053	VB	12.50008	1.17044	14.63060		1-пропанол
8.772	BV	27.64002	1.04772	28.95890		изобутиловый спирт
11.026		-	-	-		1-бутанол
13.327	BB	75.29211	1.00933	75.99442		изоамиловый спирт

Totals : 199.05514

2 Warnings or Errors :

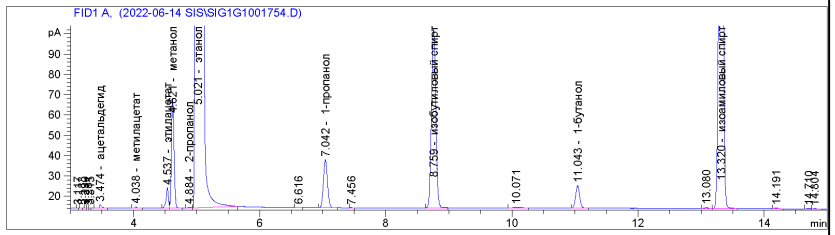
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Instrument 1 20.06.2022 12:18:03 Page 1 of 2

Кальвадос

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001754.D
Sample Name: calvados

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 12:38:52 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 08.06.2022 14:22:28
Method Info : 25.06.2019 H2



External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, June 08, 2022 3:18:42 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [мг/дм3]	Grp	Name
3.474	VB	4.37917	2.61685	11.45966		ацетальдегид
4.038	VB	1.29350	2.88749	3.73496		метилацетат
4.537	BV	25.59857	1.67785	42.95064		этилацетат
4.621	VB	151.98273	2.37274e-4	3.60615e-2		метанол
4.884	BV	9.12064e-1	1.55533	1.41856		2-пропанол
5.021	VB	S 2.08778e5	2.09954e-4	43.83364		этанол
7.042	BB	106.46347	1.17397	124.98468		1-пропанол
8.759	BB	422.47800	1.04901	443.18410		изобутиловый спирт
11.043	BB	49.52847	1.03736	51.37867		1-бутанол
13.320	VB	1356.95068	1.01087	1371.70209		изоамиловый спирт

Totals : 2094.68307

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

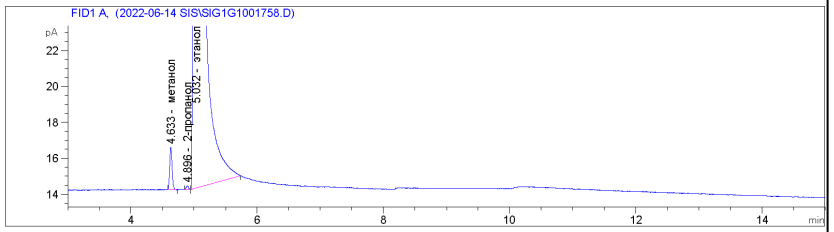
*** End of Report ***

Instrument 1 20.06.2022 12:07:12 Page 1 of 1

Водка

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001758.D
Sample Name: Moscoviya - 95

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 14:47:57 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 08.06.2022 14:22:28
Method Info : 25.06.2019 H2



External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, June 08, 2022 3:18:42 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [мг/дм3]	Grp	Name
3.467		-	-	-		ацетальдегид
4.059		-	-	-		метилацетат
4.530		-	-	-		этилацетат
4.633	BB	6.31234	2.17309e-4	1.37173e-3		метанол
4.896	BV	5.52898e-1	1.55215	8.58178e-1		2-пропанол
5.032	VB S	1.89805e5	2.09954e-4	39.85030		этанол
7.029		-	-	-		1-пропанол
8.740		-	-	-		изобутиловый спирт
11.026		-	-	-		1-бутанол
13.306		-	-	-		изоамиловый спирт

Totals : 40.70985

2 Warnings or Errors :

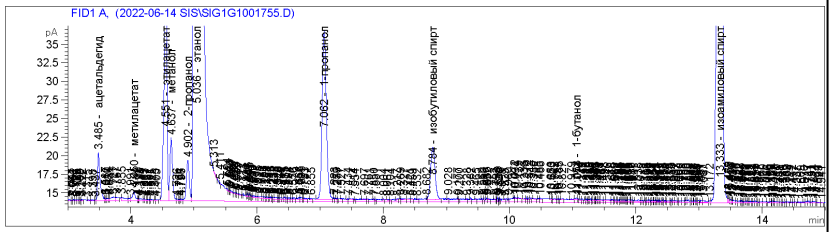
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Instrument 1 20.06.2022 12:18:39 Page 1 of 2

Коньяк

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001755.D
Sample Name: konak

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 13:13:21 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 08.06.2022 14:22:28
Method Info : 25.06.2019 H2



External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, June 08, 2022 3:18:42 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [мг/дм3]	Grp	Name
3.485	VV	17.58351	2.65405	46.66744		ацетальдегид
4.050	VV	4.13836	2.93509	12.14645		метилацетат
4.551	BV	129.27979	1.68307	217.58722		этилацетат
4.637	VV	24.71154	2.32818e-4	5.75329e-3		метанол
4.902	VV	17.55067	1.55997	27.37843		2-пропанол
5.036	VBAS	2.16195e5	2.09954e-4	45.39102		этанол
7.062	VV T	104.47670	1.17396	122.65134		1-пропанол
8.784	VV T	34.64483	1.04800	36.30766		изобутиловый спирт
11.058	VV T	5.61411e-1	9.31777e-1	5.23110e-1		1-бутанол
13.333	PV T	854.89056	1.01082	864.13856		изоамиловый спирт

Totals : 1372.79698

1 Warnings or Errors :

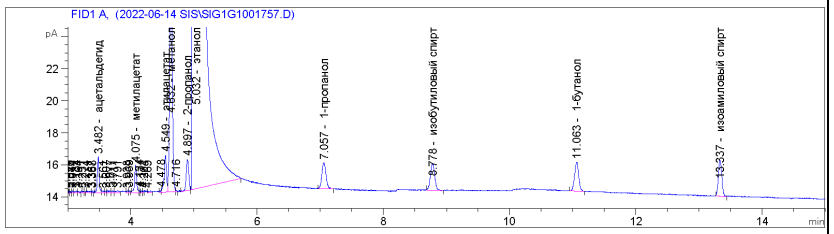
Warning : Calibration warnings (see calibration table listing)

Instrument 1 20.06.2022 12:19:31 Page 1 of 2

PB-1

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001757.D
Sample Name: pB

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 14:17:06 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 08.06.2022 14:22:28
Method Info : 25.06.2019 H2



External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, June 08, 2022 3:18:42 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [мг/дм3]	Grp	Name
3.482	VV	4.35420	2.61657	11.39307		ацетальдегид
4.075	BV	3.88449	2.93367	11.39581		метилацетат
4.549	VV	5.88779	1.65607	9.75057		этилацетат
4.632	VV	45.13608	2.35226e-4	1.06172e-2		метанол
4.897	VV	5.53714	1.55941	8.63470		2-пропанол
5.032	VB	S 2.01908e5	2.09954e-4	42.39134		этанол
7.057	VB	7.37778	1.16767	8.61479		1-пропанол
8.778	BB	7.94120	1.04428	8.29284		изобутиловый спирт
11.063	BB	8.10547	1.03117	8.35812		1-бутанол
13.337	BB	8.35263	9.96234e-1	8.32117		изоамиловый спирт

Totals : 117.16302

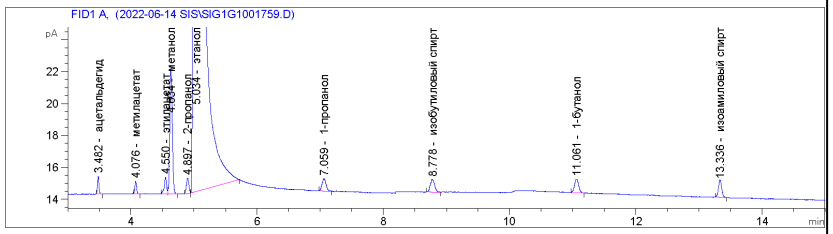
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

PB-2

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001759.D
Sample Name: 2

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 15:19:06 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 08.06.2022 14:22:28
Method Info : 25.06.2019 H2



External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, June 08, 2022 3:18:42 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [мг/дм3]	Grp	Name
3.482	BB	1.87640	2.55080	4.78631		ацетальдегид
4.076	BB	1.61751	2.90136	4.69298		метилацетат
4.550	BV	2.73721	1.62350	4.44387		этилацетат
4.634	VB	22.07565	2.32182e-4	5.12558e-3		метанол
4.897	BV	2.66154	1.55854	4.14812		2-пропанол
5.034	VB	S 1.92774e5	2.09954e-4	40.47365		этанол
7.059	BB	3.41357	1.15980	3.95907		1-пропанол
8.778	BB	3.85656	1.03917	4.00763		изобутиловый спирт
11.061	BB	3.86672	1.02306	3.95589		1-бутанол
13.336	BB	4.02269	9.80381e-1	3.94377		изоамиловый спирт

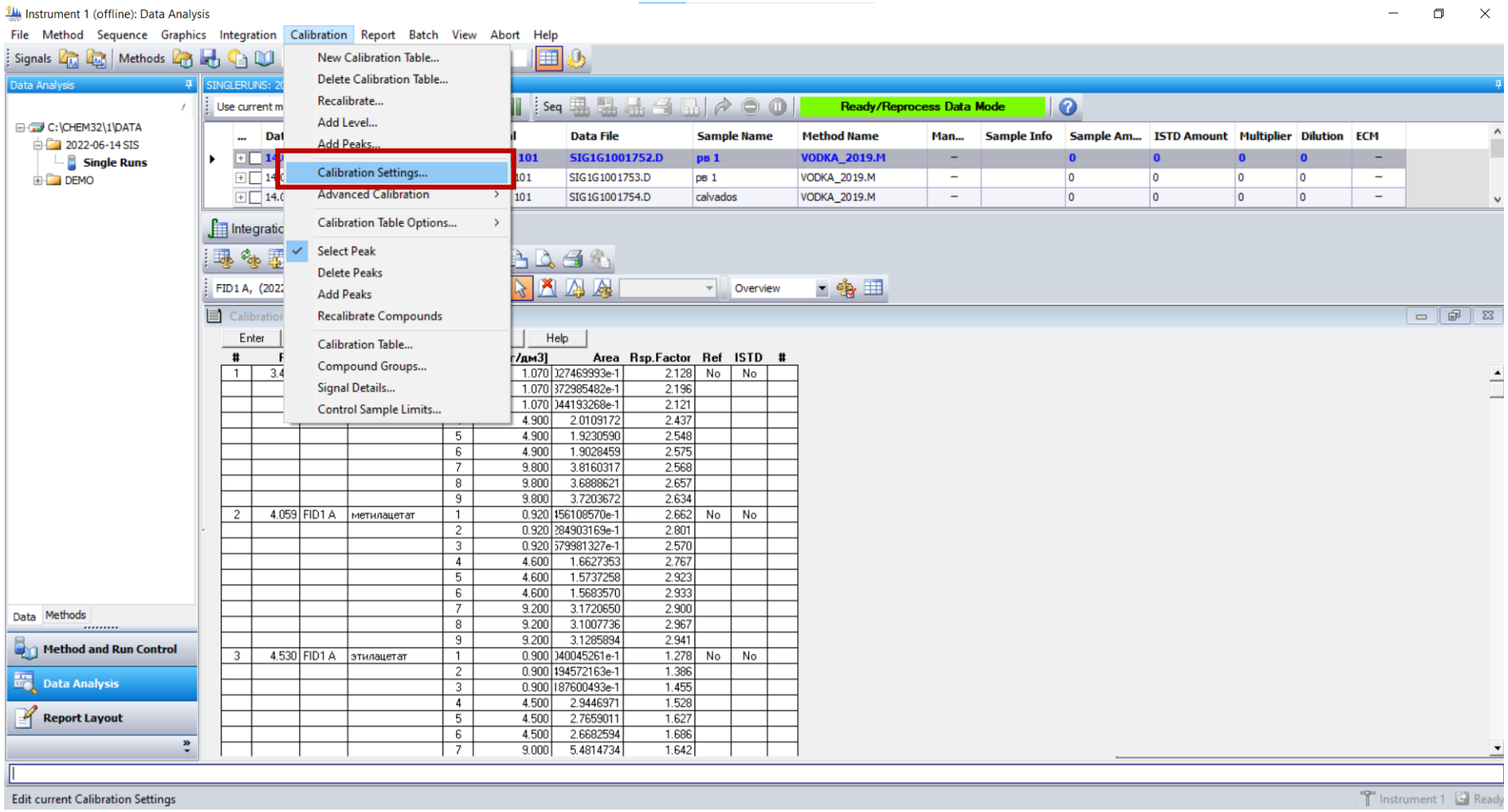
Totals : 74.41641

1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

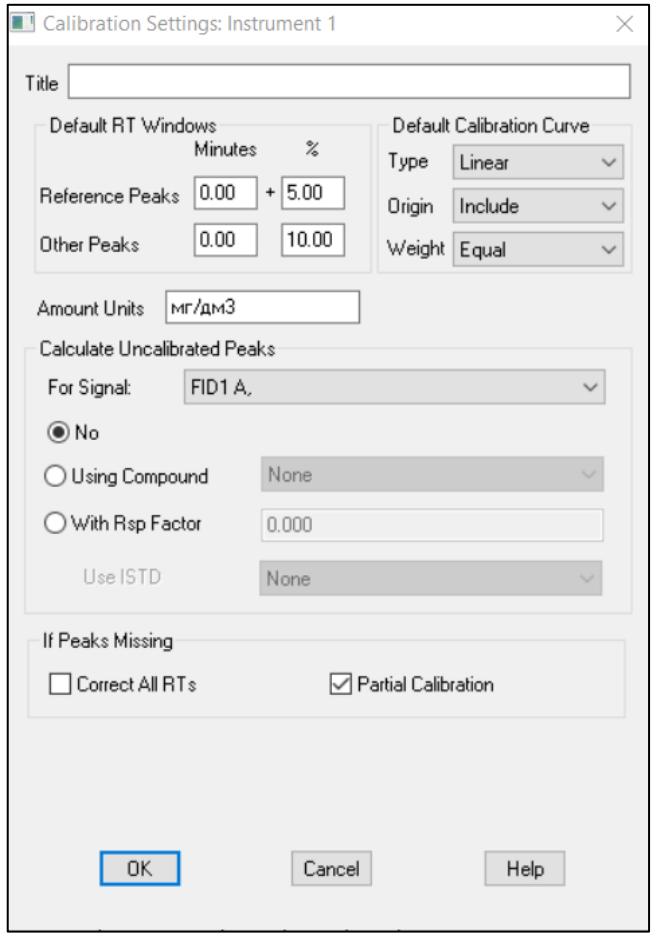
Метод внутреннего стандарта

1. Выбрать «Calibration settings…»

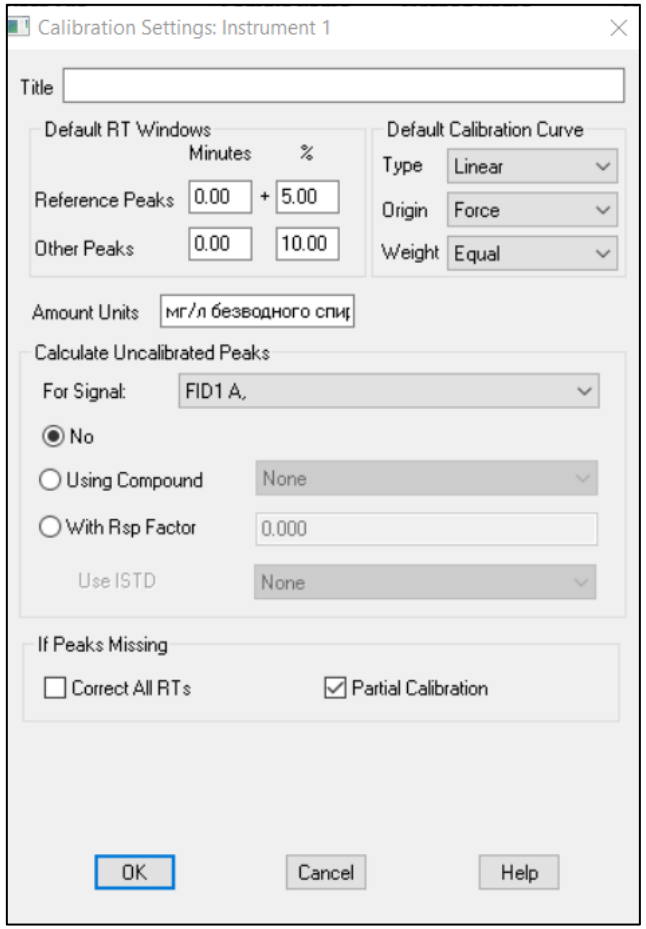


2. Внести изменения в Calibration settings

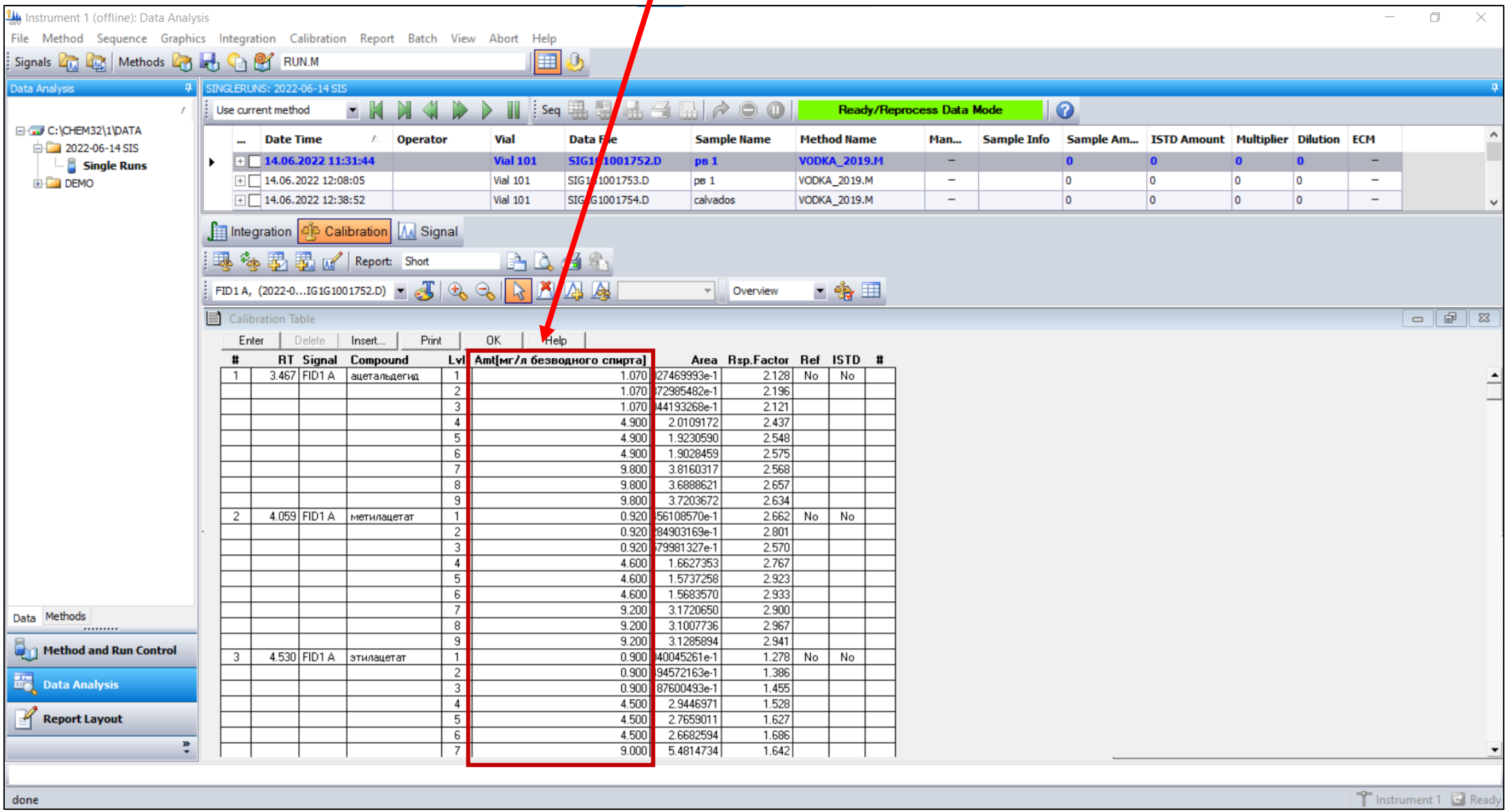
В окне будет это



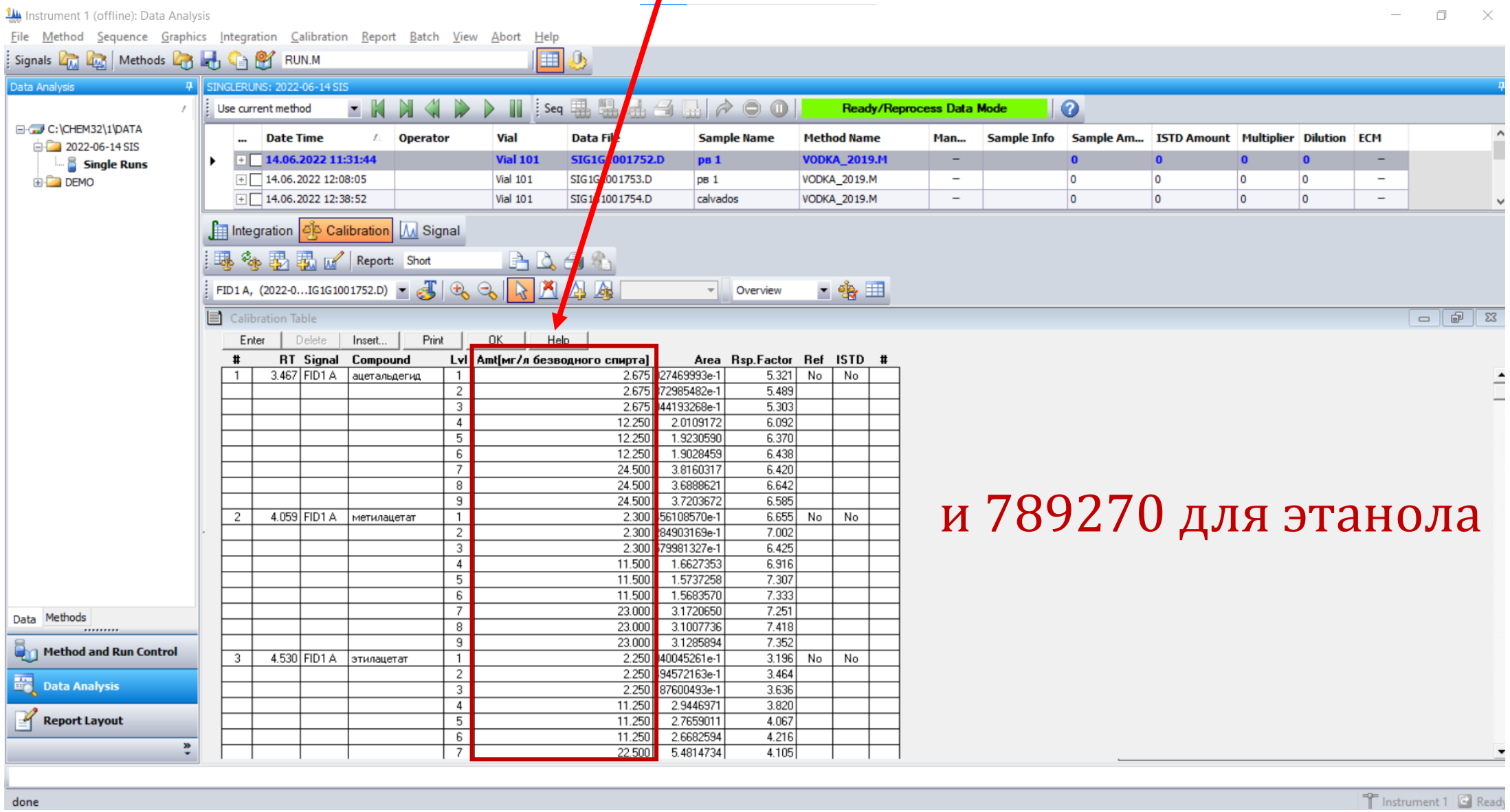
Исправить на



3. Изменить данные концентрации из мг/л в мг/л АА

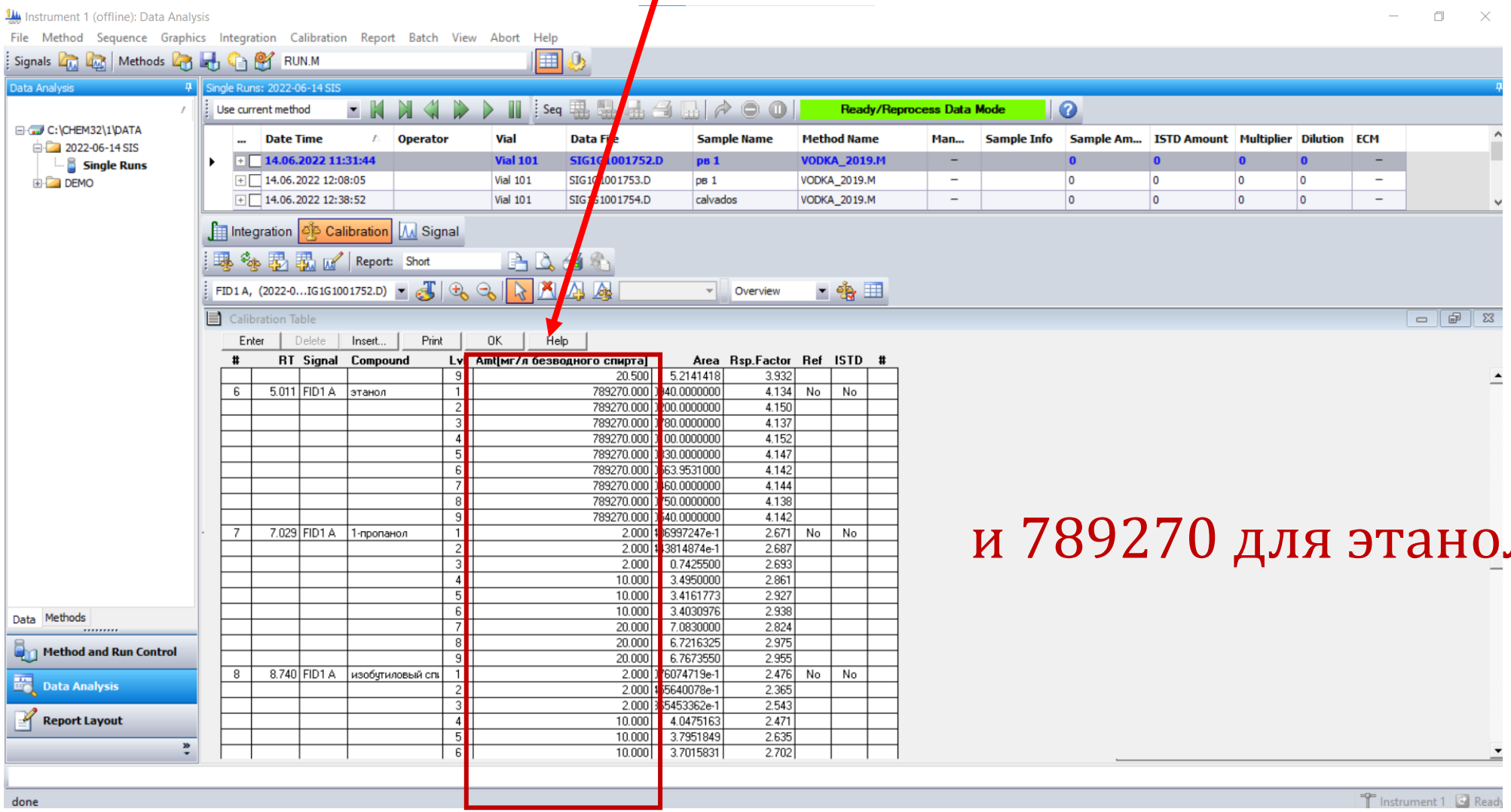


4. В результате должно быть



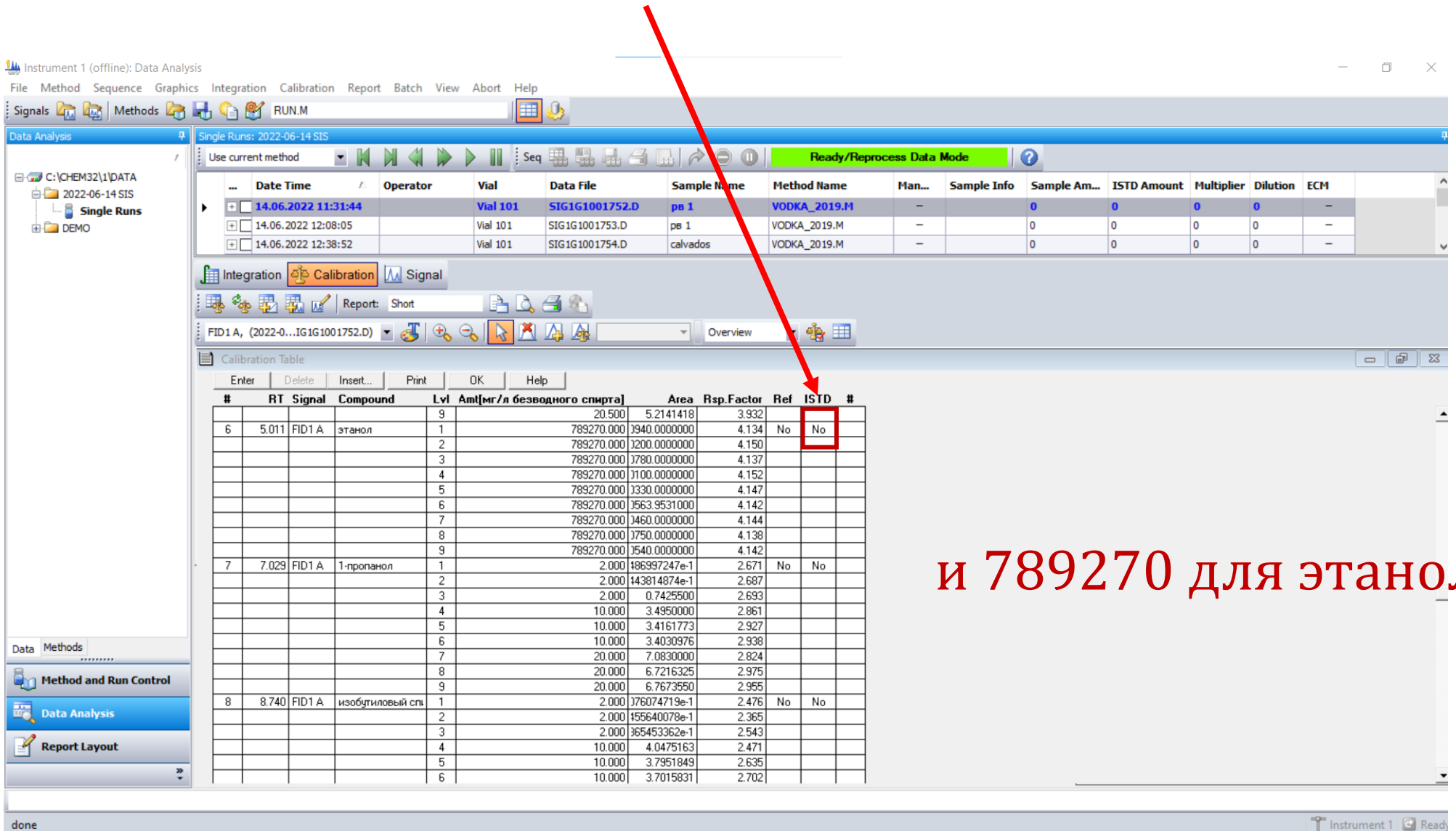
и 789270 для этанола

4. В результате должно быть



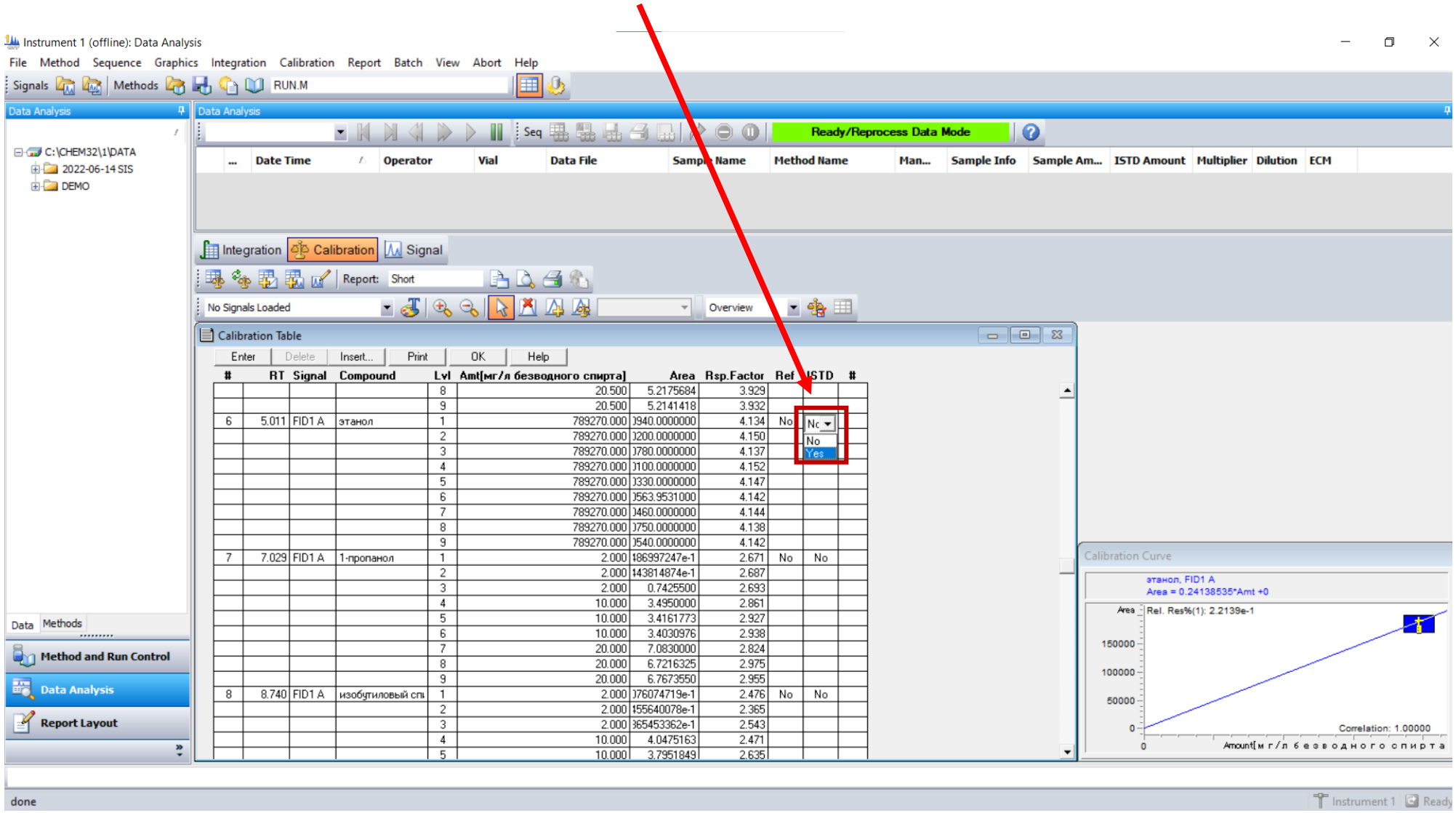
и 789270 для этанола

5. Нажать сюда

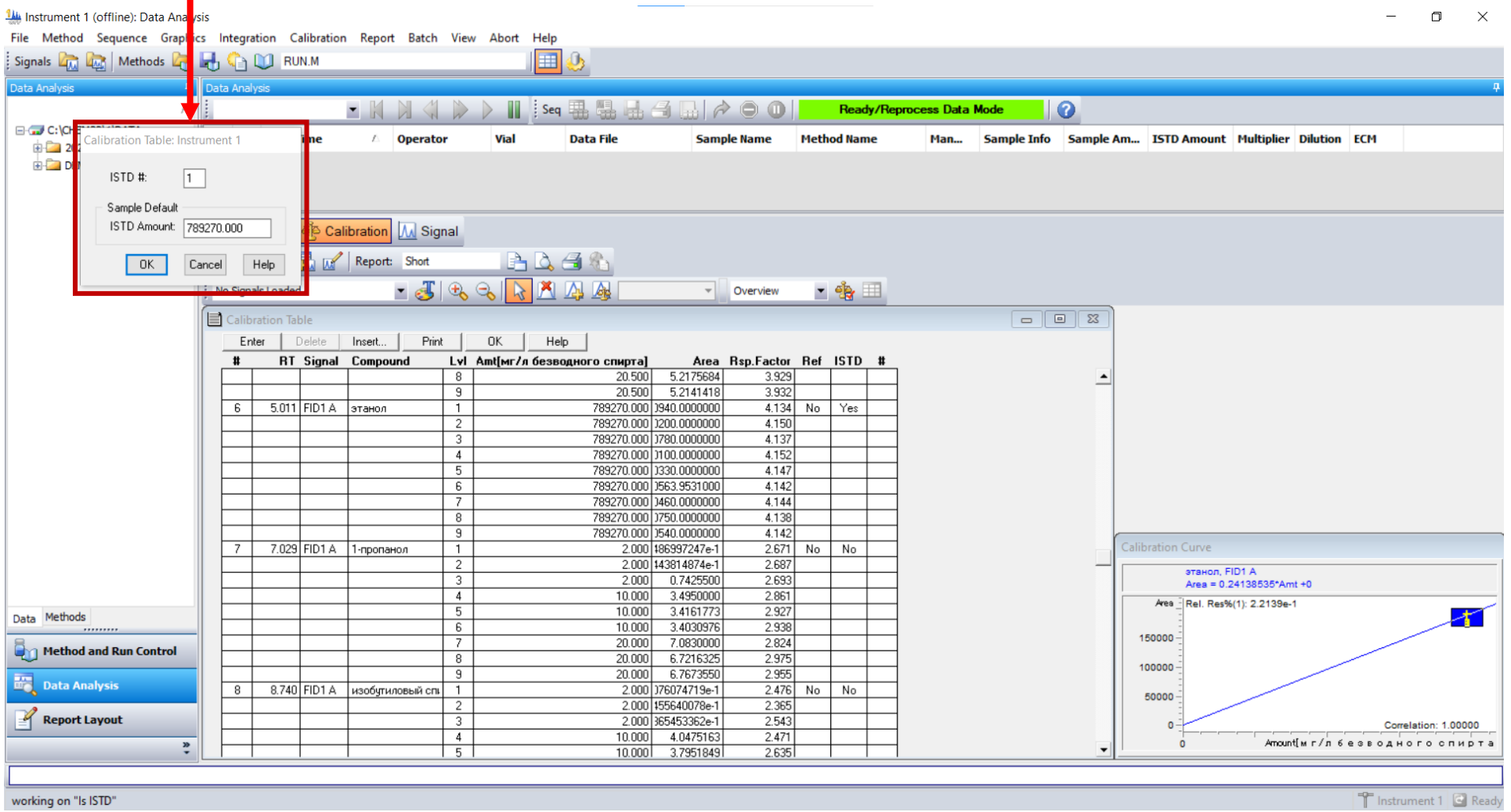


и 789270 для этанола

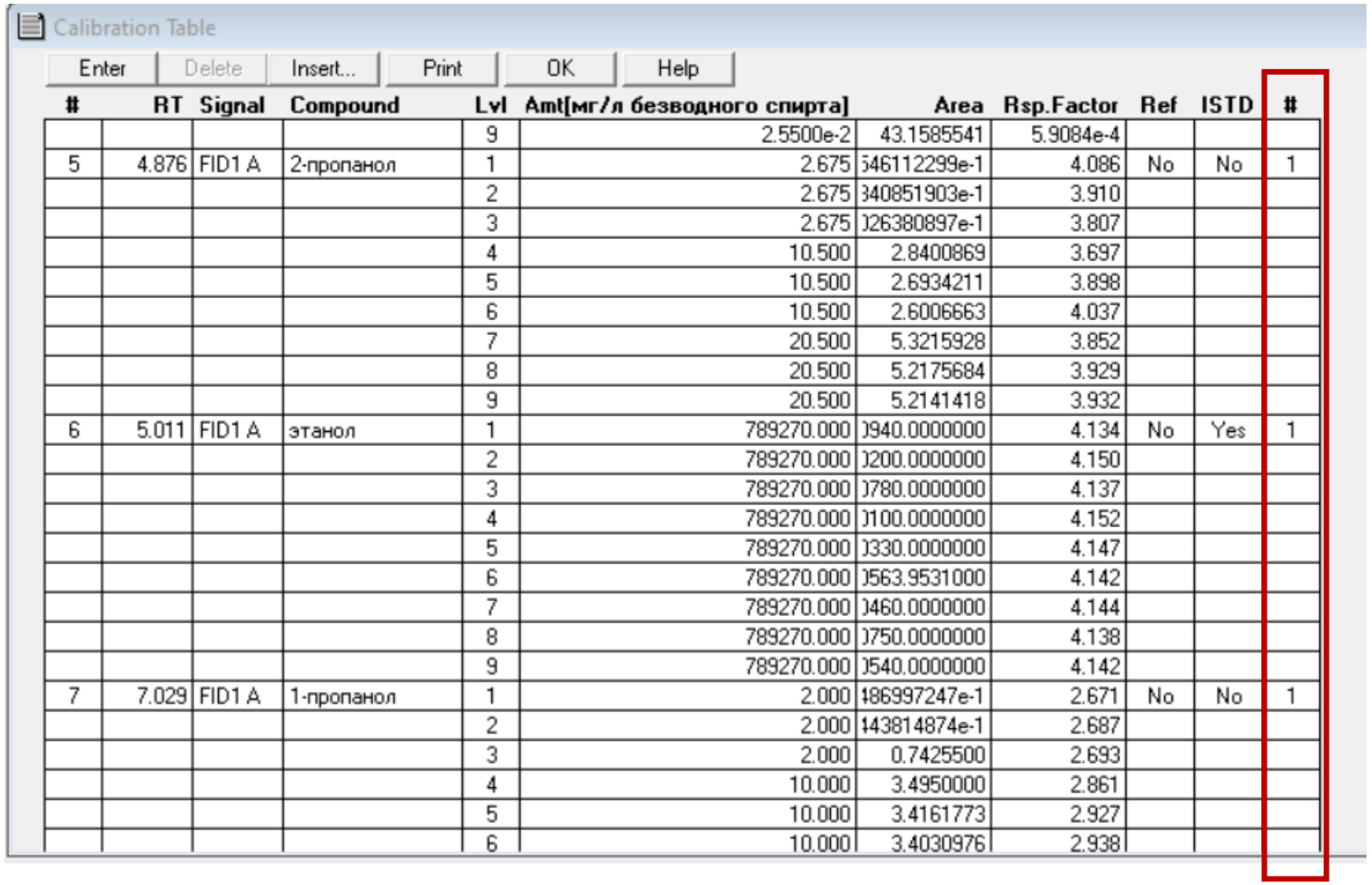
5. Выбрать «Yes»



6. Появится окно, нажать «ОК»



7. Около каждого вещества появится «1»

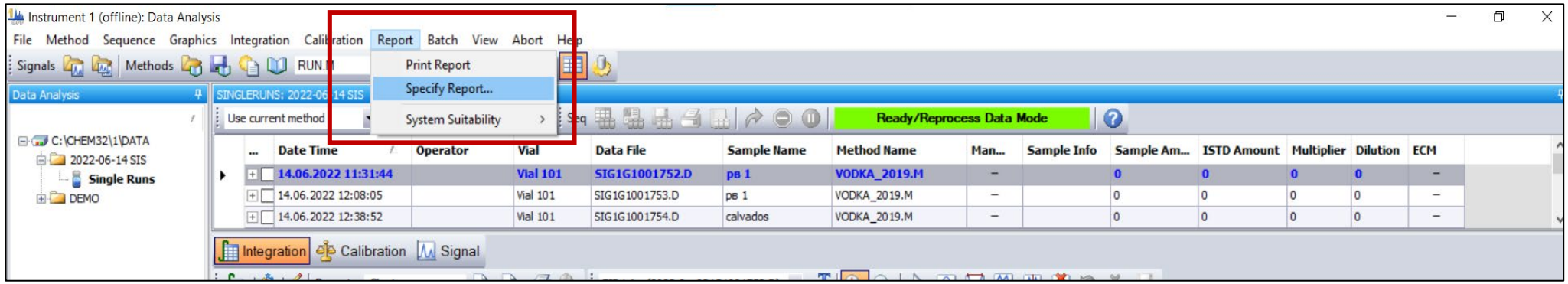


Calibration Table

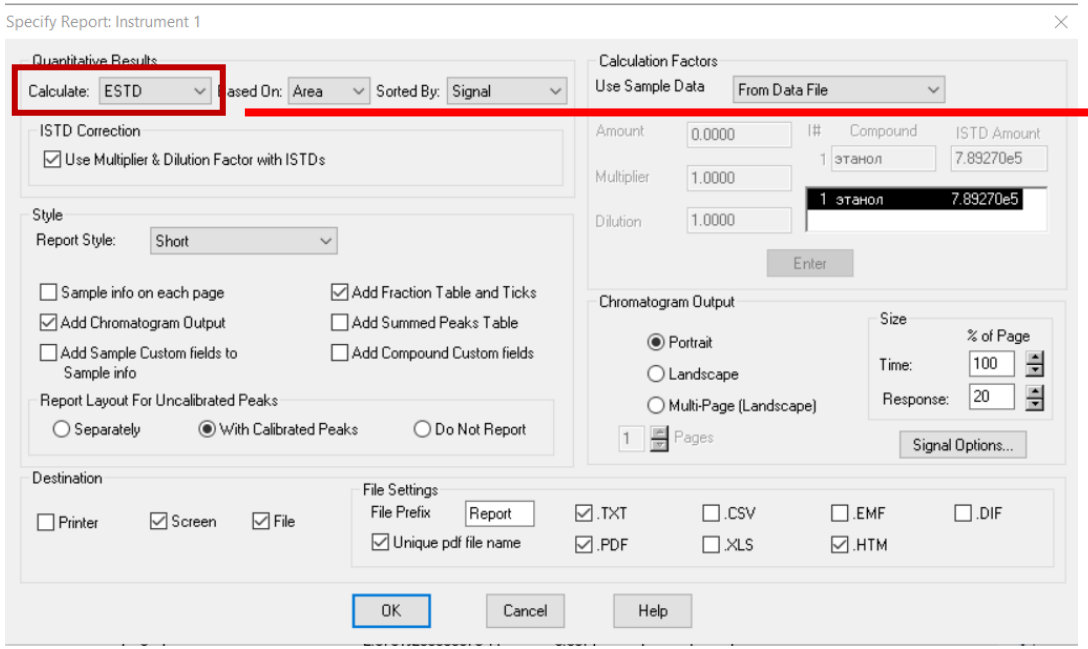
Enter | Delete | Insert... | Print | OK | Help

#	RT	Signal	Compound	Lvl	Amt[мг/л безводного спирта]	Area	Rsp.Factor	Ref	ISTD	#
				9	2.5500e-2	43.1585541	5.9084e-4			
5	4.876	FID1 A	2-пропанол	1	2.675	546112299e-1	4.086	No	No	1
				2	2.675	340851903e-1	3.910			
				3	2.675	026380897e-1	3.807			
				4	10.500	2.8400869	3.697			
				5	10.500	2.6934211	3.898			
				6	10.500	2.6006663	4.037			
				7	20.500	5.3215928	3.852			
				8	20.500	5.2175684	3.929			
				9	20.500	5.2141418	3.932			
6	5.011	FID1 A	этанол	1	789270.000	0940.0000000	4.134	No	Yes	1
				2	789270.000	0200.0000000	4.150			
				3	789270.000	0780.0000000	4.137			
				4	789270.000	0100.0000000	4.152			
				5	789270.000	0330.0000000	4.147			
				6	789270.000	0563.9531000	4.142			
				7	789270.000	0460.0000000	4.144			
				8	789270.000	0750.0000000	4.138			
				9	789270.000	0540.0000000	4.142			
7	7.029	FID1 A	1-пропанол	1	2.000	486997247e-1	2.671	No	No	1
				2	2.000	443814874e-1	2.687			
				3	2.000	0.7425500	2.693			
				4	10.000	3.4950000	2.861			
				5	10.000	3.4161773	2.927			
				6	10.000	3.4030976	2.938			

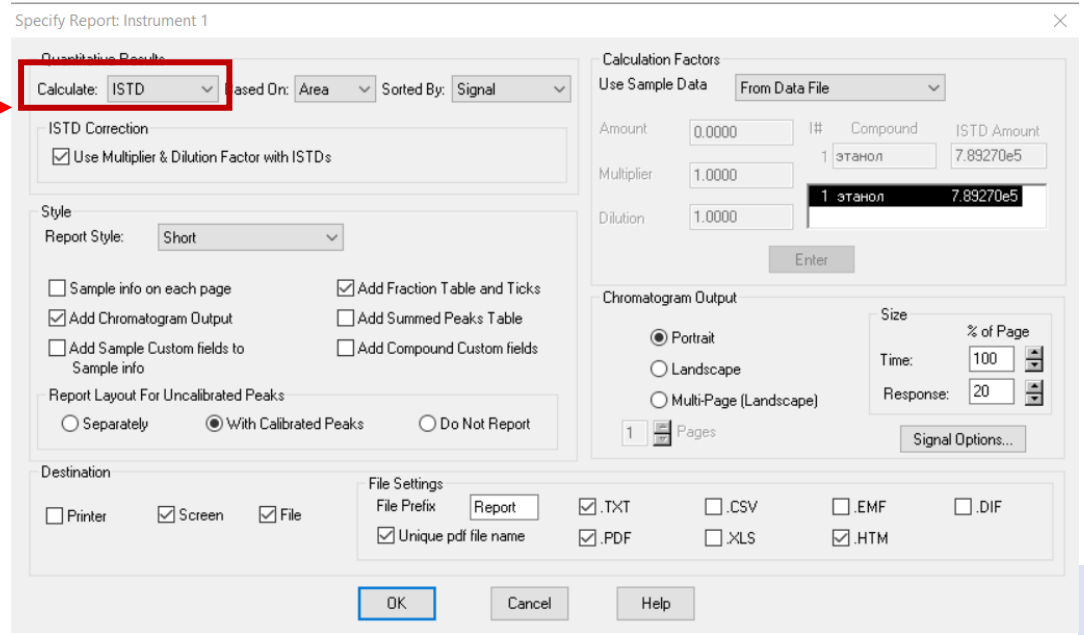
8. Выбрать «Specify report»



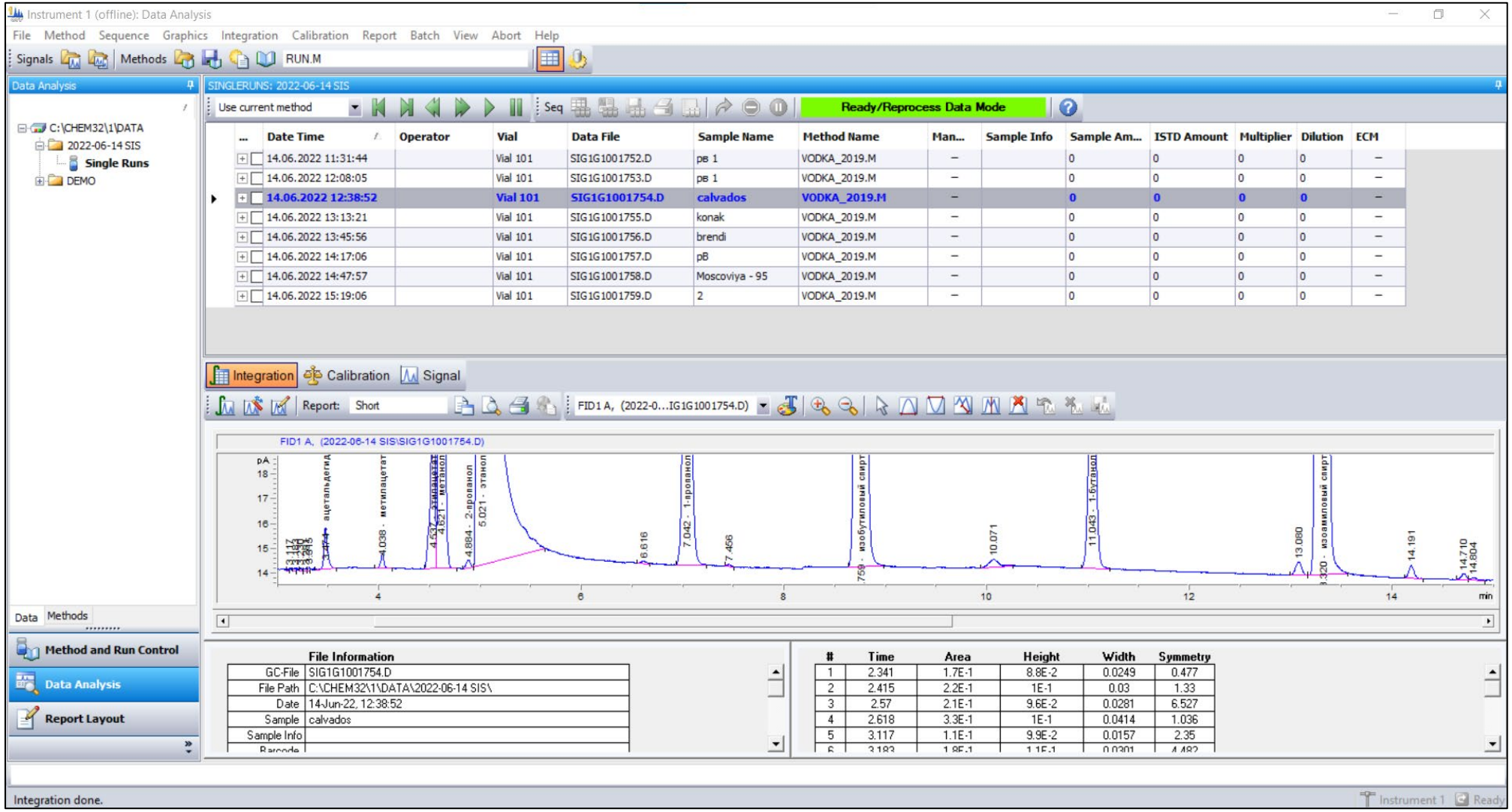
В окне будет это



Исправить на ISTD

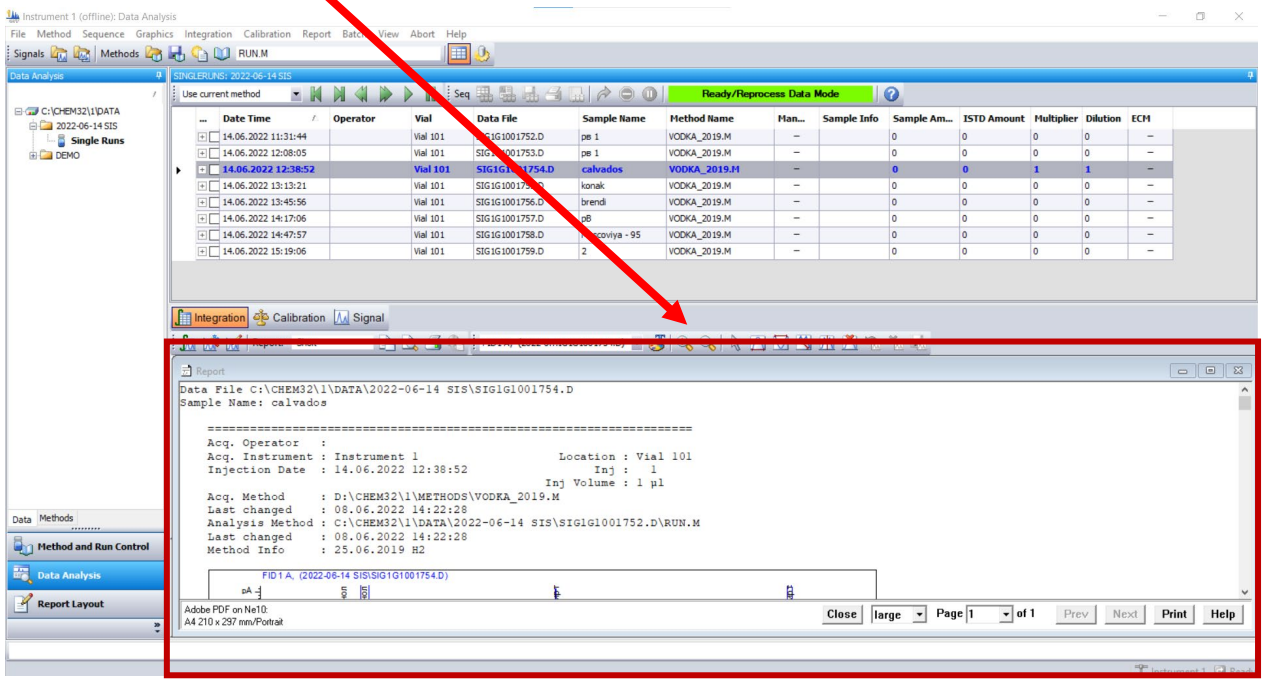


9. Выбрать образец «Кальвадос»

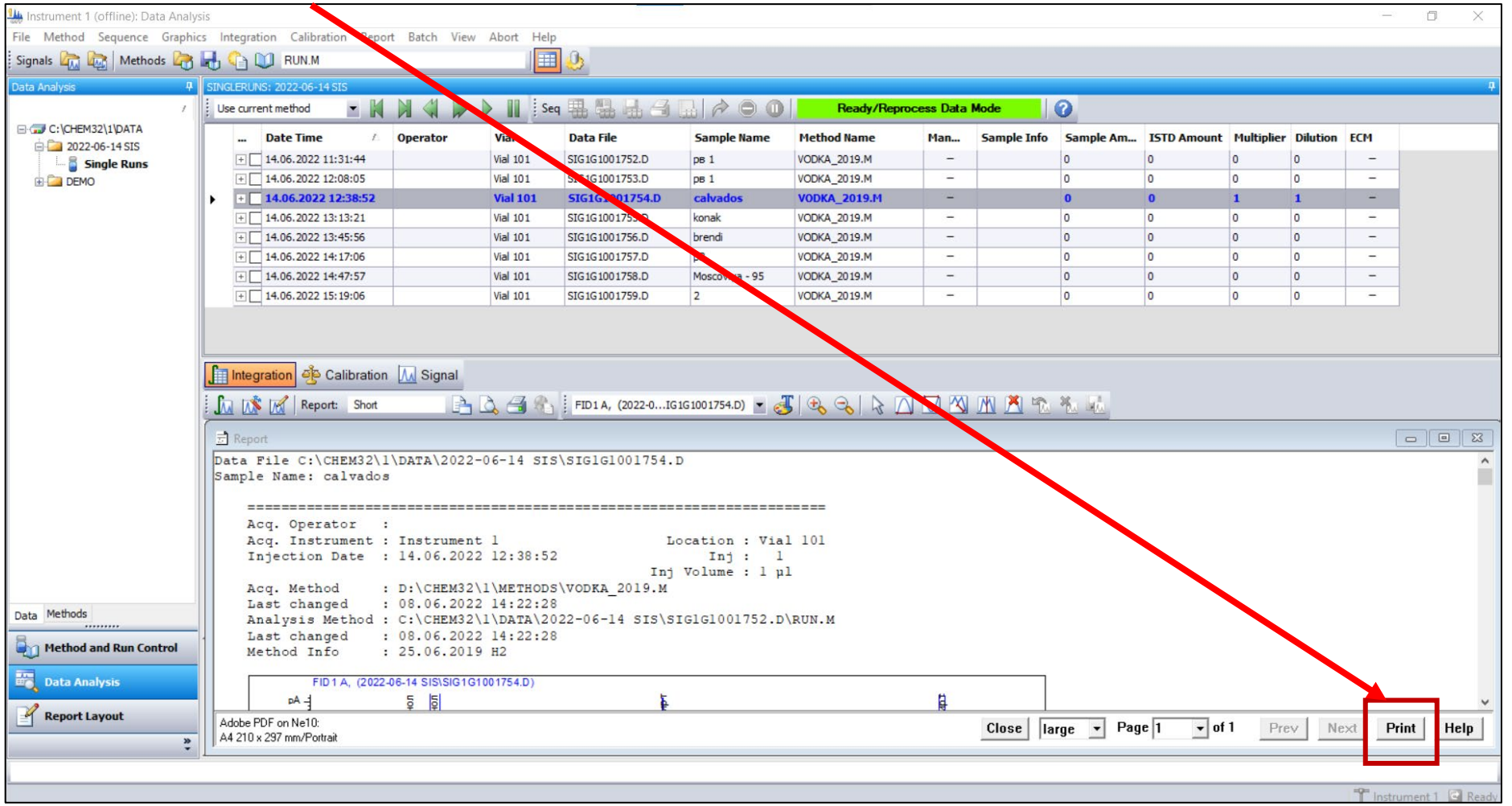


10. Выбрать «Print report»

Отчет появится внизу



10. Нажать «Print» и сохранить как pdf

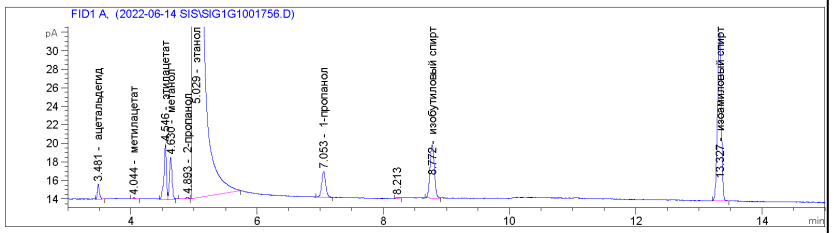


С остальными образцами сделать то же самое

Бренди

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001756.D
Sample Name: brendi

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 13:45:56 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 20.06.2022 13:18:05
(modified after loading)
Method Info : 25.06.2019 H2



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 20 June 2022 г. 13:18:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount мг/л безво	Name
1	7.89270e5	этанол

Signal 1: FID1 A,

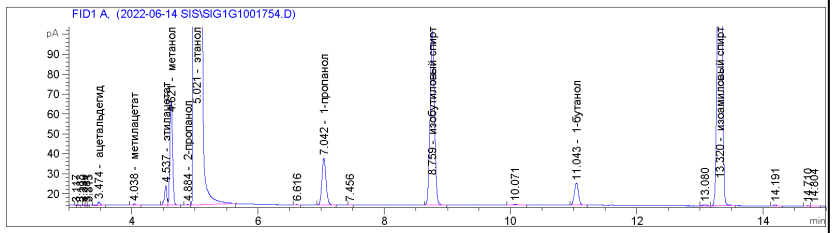
RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount мг/л безво	Grp	Name
3.481	VB	1	3.41524	1.56500	21.43389		ацетальдегид
4.044	VV	1	4.28908e-1	1.76261	3.03169		метилацетат
4.546	VV	1	16.22247	9.93171e-1	64.61099		этилацетат
4.630	VV	1	12.30149	1.41378e-4	6.97437e-3		метанол
4.893	VV	1	5.92681e-1	9.40935e-1	2.23638		2-пропанол
5.029	VB	S I 1	1.96816e5	1.00000	7.89270e5		этанол
7.053	VB	1	12.50008	7.03202e-1	35.24994		1-пропанол
8.772	BV	1	27.64002	6.29313e-1	69.75424		изобутиловый спирт
11.026		1	-	-	-		1-бутанол
13.327	BB	1	75.29211	5.98564e-1	180.72808		изоамиловый спирт

Instrument 1 20.06.2022 13:20:46 Page 1 of 2

Кальвадос

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001754.D
Sample Name: calvados

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 12:38:52 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 20.06.2022 13:18:05
(modified after loading)
Method Info : 25.06.2019 H2



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 20 June 2022 г. 13:18:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount мг/л безво	Name
1	7.89270e5	этанол

Signal 1: FID1 A,

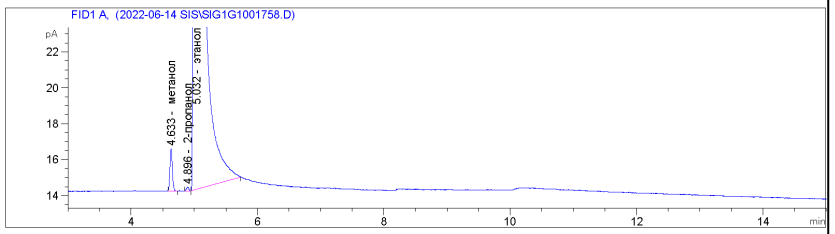
RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount мг/л безво	Grp	Name
3.474	VB	1	4.37917	1.56500	25.90886		ацетальдегид
4.038	VB	1	1.29350	1.76261	8.61914		метилацетат
4.537	BV	1	25.59857	9.93171e-1	96.11284		этилацетат
4.621	VB	1	151.98273	1.41378e-4	8.12302e-2		метанол
4.884	BV	1	9.12064e-1	9.40935e-1	3.24434		2-пропанол
5.021	VB	S I 1	2.08778e5	1.00000	7.89270e5		этанол
7.042	BB	1	106.46347	7.03202e-1	283.02355		1-пропанол
8.759	BB	1	422.47800	6.29313e-1	1005.10763		изобутиловый спирт
11.043	BB	1	49.52847	6.20938e-1	116.26381		1-бутанол
13.320	VB	1	1356.95068	5.98564e-1	3070.55167		изоамиловый спирт

Instrument 1 20.06.2022 13:19:50 Page 1 of 2

Водка

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001758.D
Sample Name: Moscoviya - 95

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 14:47:57 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 20.06.2022 13:18:05
(modified after loading)
Method Info : 25.06.2019 H2



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 20 June 2022 г. 13:18:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount мг/л безво	Name
1	7.89270e5	этанол

Signal 1: FID1 A,

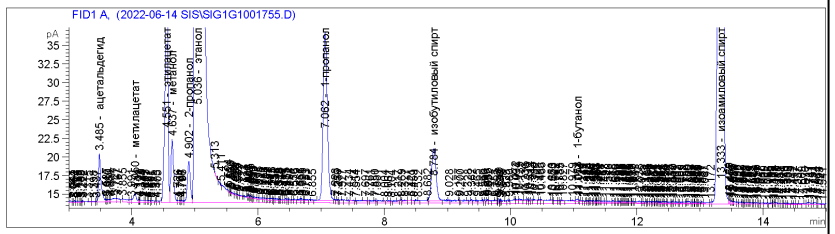
RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount мг/л безво	Grp	Name
3.467		1	-	-	-		ацетальдегид
4.059		1	-	-	-		метилацетат
4.530		1	-	-	-		этилацетат
4.633	BB	1	6.31234	1.41378e-4	3.71099e-3		метанол
4.896	BV	1	5.52898e-1	9.40935e-1	2.16333		2-пропанол
5.032	VB S I	1	1.89805e5	1.00000	7.89270e5		этанол
7.029		1	-	-	-		1-пропанол
8.740		1	-	-	-		изобутиловый спирт
11.026		1	-	-	-		1-бутанол
13.306		1	-	-	-		изоамиловый спирт

Instrument 1 20.06.2022 13:21:07 Page 1 of 2

Коньяк

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001755.D
Sample Name: konak

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 13:13:21 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 20.06.2022 13:18:05
(modified after loading)
Method Info : 25.06.2019 H2



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 20 June 2022 г. 13:18:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount мг/л безво	Name
1	7.89270e5	этанол

Signal 1: FID1 A,

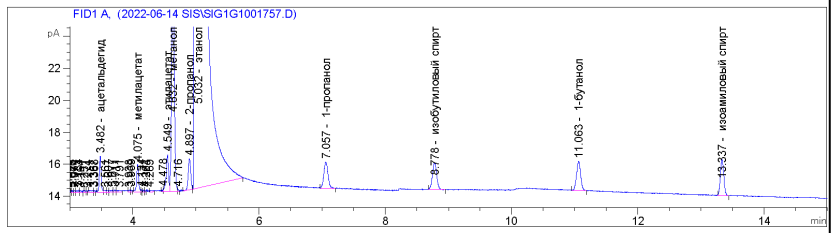
RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount мг/л безво	Grp	Name
3.485	VV	1	17.58351	1.56500	100.46136		ацетальдегид
4.050	VV	1	4.13836	1.76261	26.62953		метилацетат
4.551	BV	1	129.27979	9.93171e-1	468.74197		этилацетат
4.637	VV	1	24.71154	1.41378e-4	1.27544e-2		метанол
4.902	VV	1	17.55067	9.40935e-1	60.28821		2-пропанол
5.036	VBAS I	1	2.16195e5	1.00000	7.89270e5		этанол
7.062	VV T	1	104.47670	7.03202e-1	268.21247		1-пропанол
8.784	VV T	1	34.64483	6.29313e-1	79.59476		изобутиловый спирт
11.058	VV T	1	5.61411e-1	6.20938e-1	1.27265		1-бутанол
13.333	PV T	1	854.89056	5.98564e-1	1868.10131		изоамиловый спирт

Instrument 1 20.06.2022 13:20:28 Page 1 of 2

PB-1

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001757.D
Sample Name: pB

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 14:17:06 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 20.06.2022 13:18:05
(modified after loading)
Method Info : 25.06.2019 H2



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 20 June 2022 г. 13:18:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount мг/л безво	Name
1	7.89270e5	этанол

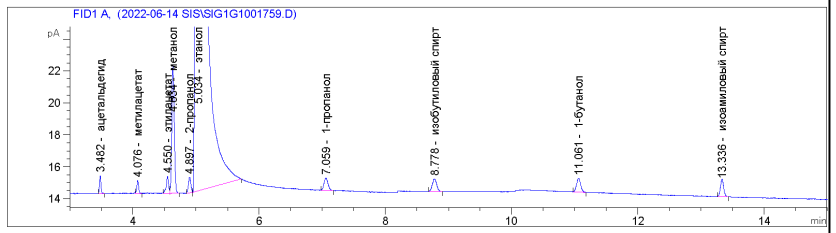
Signal 1: FID1 A,

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount мг/л безво	Grp	Name
3.482	VV	1	4.35420	1.56500	26.63756		ацетальдегид
4.075	BV	1	3.88449	1.76261	26.76465		метилацетат
4.549	VV	1	5.88779	9.93171e-1	22.85851		этилацетат
4.632	VV	1	45.13608	1.41378e-4	2.49447e-2		метанол
4.897	VV	1	5.53714	9.40935e-1	20.36654		2-пропанол
5.032	VB S	I 1	2.01908e5	1.00000	7.89270e5		этанол
7.057	VB	1	7.37778	7.03202e-1	20.28048		1-пропанол
8.778	BB	1	7.94120	6.29313e-1	19.53552		изобутиловый спирт
11.063	BB	1	8.10547	6.20938e-1	19.67426		1-бутанол
13.337	BB	1	8.35263	5.98564e-1	19.54367		изоамиловый спирт

PB-2

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001759.D
Sample Name: 2

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 15:19:06 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 20.06.2022 13:18:05
(modified after loading)
Method Info : 25.06.2019 H2



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 20 June 2022 г. 13:18:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount мг/л безво	Name
1	7.89270e5	этанол

Signal 1: FID1 A,

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount мг/л безво	Grp	Name
3.482	BB	1	1.87640	1.56500	12.02309		ацетальдегид
4.076	BB	1	1.61751	1.76261	11.67293		метилацетат
4.550	BV	1	2.73721	9.93171e-1	11.13037		этилацетат
4.634	VB	1	22.07565	1.41378e-4	1.27783e-2		метанол
4.897	BV	1	2.66154	9.40935e-1	10.25342		2-пропанол
5.034	VB S	I 1	1.92774e5	1.00000	7.89270e5		этанол
7.059	BB	1	3.41357	7.03202e-1	9.82802		1-пропанол
8.778	BB	1	3.85656	6.29313e-1	9.93674		изобутиловый спирт
11.061	BB	1	3.86672	6.20938e-1	9.83031		1-бутанол
13.336	BB	1	4.02269	5.98564e-1	9.85836		изоамиловый спирт

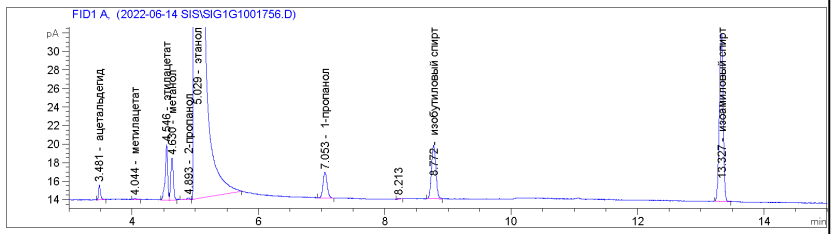
Сравнение полученных результатов

Бренди

Метод внешнего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001756.D
Sample Name: brendi

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 13:45:56 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 08.06.2022 14:22:28
Method Info : 25.06.2019 H2



External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, June 08, 2022 3:18:42 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [мг/дм3]	Grp	Name
3.481	VB	3.41524	2.60288	8.88945		ацетальдегид
4.044	VV	4.28908e-1	2.74790	1.17860		метилацетат
4.546	VV	16.22247	1.67409	27.15791		этилацетат
4.630	VV	12.30149	2.27450e-4	2.79797e-3		метанол
4.893	VV	5.92681e-1	1.55269	9.20250e-1		2-пропанол
5.029	VB S	1.96816e5	2.09954e-4	41.32223		этанол
7.053	VB	12.50008	1.17044	14.63060		1-пропанол
8.772	BV	27.64002	1.04772	28.95890		изобутиловый спирт
11.026		-	-	-		1-бутанол
13.327	BB	75.29211	1.00933	75.99442		изоамиловый спирт

Totals : 199.05514

2 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Instrument 1 20.06.2022 12:18:03 Page 1 of 2

Если значение крепости 40 %

8,88945 мг/л / 0,4 = 22,2 мг/л безводного спирта

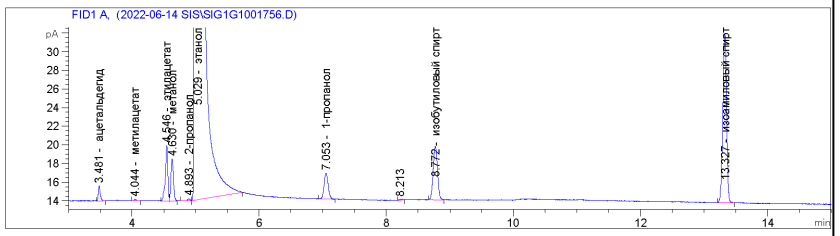
$$\frac{21,4-22,2}{22,2}\cdot 100\ \% = -3,6\ \%$$

Однако, значение крепости образца в соответствии с результатами измерений не 40 %.

Метод внутреннего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001756.D
Sample Name: brendi

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 13:45:56 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 20.06.2022 13:18:05
(modified after loading)
Method Info : 25.06.2019 H2



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 20 June 2022 г. 13:18:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount мг/л безво	Name
1	7.89270e5	этанол

Signal 1: FID1 A,

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount мг/л безво	Grp	Name
3.481	VB	1	3.41524	4.56500	21.43389		ацетальдегид
4.044	VV	1	4.28908e-1	1.76261	3.02168		метилацетат
4.546	VV	1	16.22247	9.93171e-1	64.61099		этилацетат
4.630	VV	1	12.30149	1.41378e-4	6.97437e-3		метанол
4.893	VV	1	5.92681e-1	9.40935e-1	2.23638		2-пропанол
5.029	VB S I	1	1.96816e5	1.00000	7.89270e5		этанол
7.053	VB	1	12.50008	7.03202e-1	35.24994		1-пропанол
8.772	BV	1	27.64002	6.29313e-1	69.75424		изобутиловый спирт
11.026		1	-	-	-		1-бутанол
13.327	BB	1	75.29211	5.98564e-1	180.72808		изоамиловый спирт

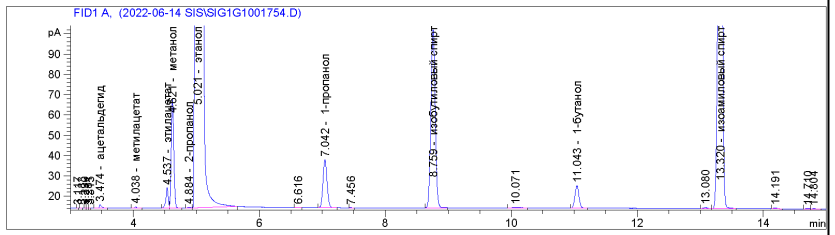
Instrument 1 20.06.2022 13:20:46 Page 1 of 2

Кальвадос

Метод внешнего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001754.D
Sample Name: calvados

```
==========================================================================
Acq. Operator   :
Acq. Instrument : Instrument 1                    Location : Vial 101
Injection Date  : 14.06.2022 12:38:52               Inj :   1
                                                  Inj Volume : 1 µl
Acq. Method     : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed    : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed    : 08.06.2022 14:22:28
Method Info     : 25.06.2019 H2
```

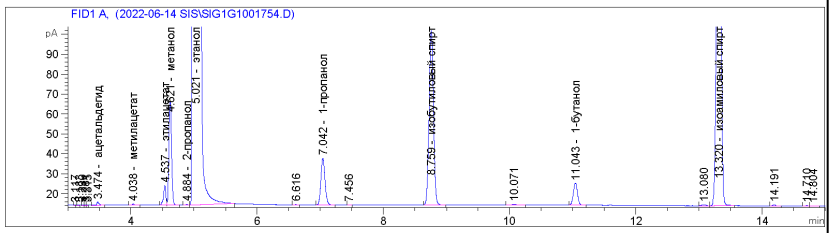



```
==========================================================================
                        External Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      Wednesday, June 08, 2022 3:18:42 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime  Type     Area     Amt/Area    Amount   Grp   Name
 [min]           [pA*s]                [мг/дм3]
-------|------|----------|----------|----------|--|------------------
  3.474 VB        4.37917    2.61685   11.45966    ацетальдегид
  4.038 VB        1.29350    2.88749    3.73496    метилацетат
  4.537 BV       25.59857    1.67785   42.95064    этилацетат
  4.621 VB      151.98273 2.37274e-4 3.60615e-2    метанол
  4.884 BV     9.12064e-1    1.55533    1.41856    2-пропанол
  5.021 VB S   2.08778e5  2.09954e-4   43.83364    этанол
  7.042 BB       106.46347    1.17397  124.98468    1-пропанол
  8.759 BB       422.47800    1.04901  443.18410    изобутиловый спирт
 11.043 BB        49.52847    1.03736   51.37867    1-бутанол
 13.320 VB      1356.95068    1.01087 1371.70209    изоамиловый спирт

Totals :                              2094.68307


1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

==========================================================================
                        *** End of Report ***
```


Метод внутреннего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001754.D
Sample Name: calvados

```
==========================================================================
Acq. Operator   :
Acq. Instrument : Instrument 1                    Location : Vial 101
Injection Date  : 14.06.2022 12:38:52               Inj :   1
                                                  Inj Volume : 1 µl
Acq. Method     : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed    : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed    : 20.06.2022 13:18:05
                  (modified after loading)
Method Info     : 25.06.2019 H2
```



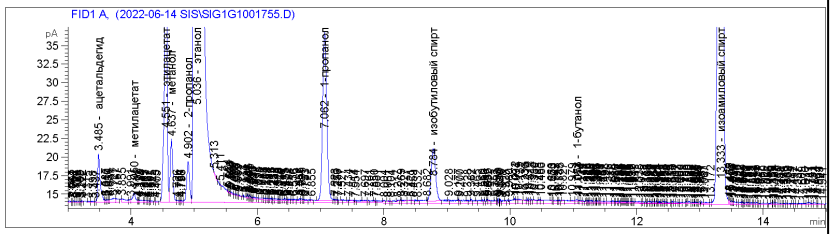

```
==========================================================================
                        Internal Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      20 June 2022 г. 13:18:05
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
ISTD  ISTD Amount   Name
  #   мг/л безво
----|------------|-------------------------
  1   7.89270e5    этанол


Signal 1: FID1 A,

RetTime  Type  ISTD    Area     Amt/Area    Amount   Grp   Name
 [min]         used  [pA*s]      ratio    мг/л безво
-------|------|----|----------|----------|----------|--|------------------
  3.474 VB        1    4.37917    1.56500   25.90886    ацетальдегид
  4.038 VB        1    1.29350    1.76261    8.61914    метилацетат
  4.537 BV        1   25.59857 9.93171e-1   96.11284    этилацетат
  4.621 VB        1  151.98273 1.41378e-4 8.12302e-2    метанол
  4.884 BV        1 9.12064e-1 9.40935e-1    3.24434    2-пропанол
  5.021 VB S I    1 2.08778e5     1.00000 7.89270e5     этанол
  7.042 BB        1  106.46347 7.03202e-1  283.02355    1-пропанол
  8.759 BB        1  422.47800 6.29313e-1 1005.10763    изобутиловый спирт
 11.043 BB        1   49.52847 6.20938e-1  116.26381    1-бутанол
 13.320 VB        1 1356.95068 5.98564e-1 3070.55167    изоамиловый спирт
```

Коньяк

Метод внешнего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001755.D
Sample Name: konak

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 13:13:21 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 08.06.2022 14:22:28
Method Info : 25.06.2019 H2



External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, June 08, 2022 3:18:42 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [мг/дм3]	Grp	Name
3.485	VV	17.58351	2.65405	46.66744		ацетальдегид
4.050	VV	4.13836	2.93509	12.14645		метилацетат
4.551	BV	129.27979	1.68307	217.58722		этилацетат
4.637	VV	24.71154	2.32818e-4	5.75329e-3		метанол
4.902	VV	17.55067	1.55997	27.37843		2-пропанол
5.036	VBAS	2.16195e5	2.09954e-4	45.39102		этанол
7.062	VV T	104.47670	1.17396	122.65134		1-пропанол
8.784	VV T	34.64483	1.04800	36.30766		изобутиловый спирт
11.058	VV T	5.61411e-1	9.31777e-1	5.23110e-1		1-бутанол
13.333	PV T	854.89056	1.01082	864.13856		изоамиловый спирт

Totals : 1372.79698

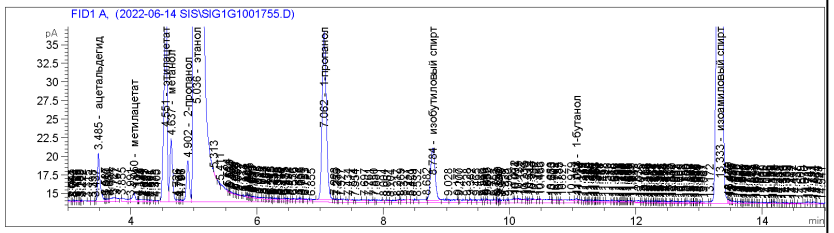
1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)

Метод внутреннего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001755.D
Sample Name: konak

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 13:13:21 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 20.06.2022 13:18:05
(modified after loading)
Method Info : 25.06.2019 H2



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 20 June 2022 г. 13:18:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount мг/л безво	Name
1	7.89270e5	этанол

Signal 1: FID1 A,

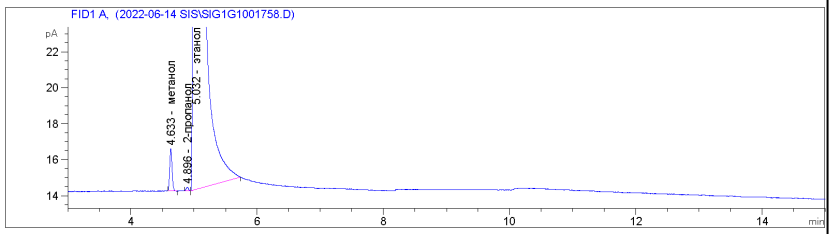
RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount мг/л безво	Grp	Name
3.485	VV	1	17.58351	1.56500	100.46136		ацетальдегид
4.050	VV	1	4.13836	1.76261	26.62953		метилацетат
4.551	BV	1	129.27979	9.93171e-1	468.74197		этилацетат
4.637	VV	1	24.71154	1.41378e-4	1.27544e-2		метанол
4.902	VV	1	17.55067	9.40935e-1	60.28821		2-пропанол
5.036	VBAS	I 1	2.16195e5	1.00000	7.89270e5		этанол
7.062	VV T	1	104.47670	7.03202e-1	268.21247		1-пропанол
8.784	VV T	1	34.64483	6.29313e-1	79.59476		изобутиловый спирт
11.058	VV T	1	5.61411e-1	6.20938e-1	1.27265		1-бутанол
13.333	PV T	1	854.89056	5.98564e-1	1868.10131		изоамиловый спирт

Водка

Метод внешнего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001758.D
Sample Name: Moscoviya - 95

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 14:47:57 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 08.06.2022 14:22:28
Method Info : 25.06.2019 H2



External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, June 08, 2022 3:18:42 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [мг/дм3]	Grp	Name
3.467		-	-	-		ацетальдегид
4.059		-	-	-		метилацетат
4.530		-	-	-		этилацетат
4.633	BB	6.31234	2.17309e-4	1.37173e-3		метанол
4.896	BV	5.52898e-1	1.55215	8.58178e-1		2-пропанол
5.032	VB S	1.89805e5	2.09954e-4	39.85030		этанол
7.029		-	-	-		1-пропанол
8.740		-	-	-		изобутиловый спирт
11.026		-	-	-		1-бутанол
13.306		-	-	-		изоамиловый спирт

Totals : 40.70985

2 Warnings or Errors :

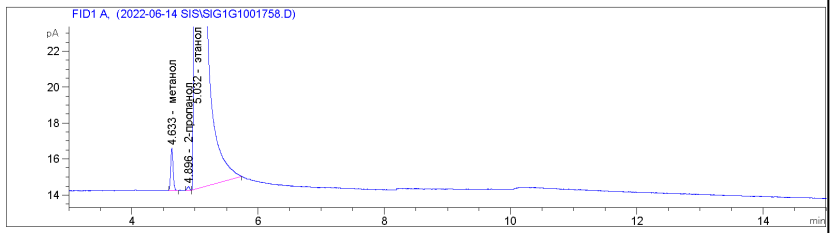
Warning : Calibration warnings (see calibration table listing)
Warning : Calibrated compound(s) not found

Instrument 1 20.06.2022 12:18:39 Page 1 of 2

Метод внутреннего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001758.D
Sample Name: Moscoviya - 95

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 14:47:57 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 20.06.2022 13:18:05
(modified after loading)
Method Info : 25.06.2019 H2



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 20 June 2022 г. 13:18:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount мг/л безво	Name
1	7.89270e5	этанол

Signal 1: FID1 A,

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount мг/л безво	Grp	Name
3.467		1	-	-	-		ацетальдегид
4.059		1	-	-	-		метилацетат
4.530		1	-	-	-		этилацетат
4.633	BB	1	6.31234	1.41378e-4	3.71099e-3		метанол
4.896	BV	1	5.52898e-1	9.40935e-1	2.16333		2-пропанол
5.032	VB S I	1	1.89805e5	1.00000	7.89270e5		этанол
7.029		1	-	-	-		1-пропанол
8.740		1	-	-	-		изобутиловый спирт
11.026		1	-	-	-		1-бутанол
13.306		1	-	-	-		изоамиловый спирт

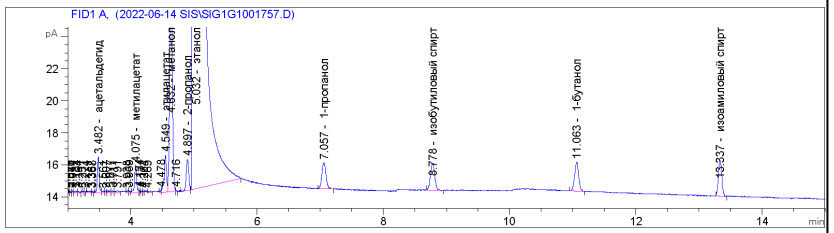
Instrument 1 20.06.2022 13:21:07 Page 1 of 2

РВ-1

Метод внешнего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001757.D
Sample Name: pB

```
Acq. Operator   :
Acq. Instrument : Instrument 1                    Location : Vial 101
Injection Date  : 14.06.2022 14:17:06                Inj :   1
                                                 Inj Volume : 1 µl
Acq. Method     : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed    : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed    : 08.06.2022 14:22:28
Method Info     : 25.06.2019 H2
```



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      Wednesday, June 08, 2022 3:18:42 PM
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,
```

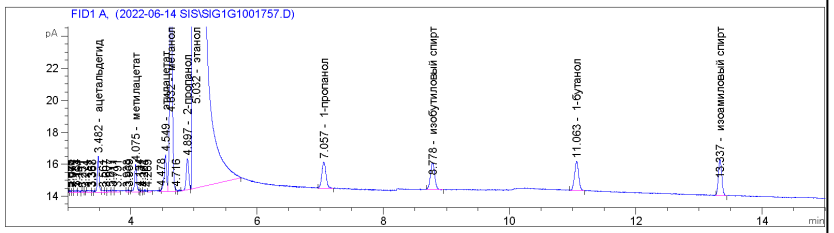
RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [мг/дм3]	Grp	Name
3.482	VV	4.35420	2.61657	11.39307		ацетальдегид
4.075	BV	3.88449	2.93367	11.39581		метилацетат
4.549	VV	5.88779	1.65607	9.75057		этилацетат
4.632	VV	45.13608	2.35226e-4	1.06172e-2		метанол
4.897	VV	5.53714	1.55941	8.63470		2-пропанол
5.032	VB S	2.01908e5	2.09954e-4	42.39134		этанол
7.057	VB	7.37778	1.16767	8.61479		1-пропанол
8.778	BB	7.94120	1.04428	8.29284		изобутиловый спирт
11.063	BB	8.10547	1.03117	8.35812		1-бутанол
13.337	BB	8.35263	9.96234e-1	8.32117		изоамиловый спирт

```
Totals :                              117.16302


1 Warnings or Errors :

Warning : Calibration warnings (see calibration table listing)
```


Метод внутреннего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001757.D
Sample Name: pB

```
Acq. Operator   :
Acq. Instrument : Instrument 1                    Location : Vial 101
Injection Date  : 14.06.2022 14:17:06                Inj :   1
                                                 Inj Volume : 1 µl
Acq. Method     : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed    : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed    : 20.06.2022 13:18:05
                  (modified after loading)
Method Info     : 25.06.2019 H2
```



Internal Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      20 June 2022 г. 13:18:05
Multiplier:                   :      1.0000
Dilution:                     :      1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:
```

ISTD #	ISTD Amount мг/л безво	Name
1	7.89270e5	этанол

```
Signal 1: FID1 A,
```

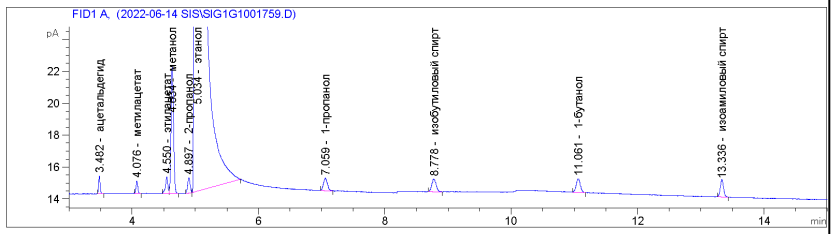
RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount мг/л безво	Grp	Name
3.482	VV	1	4.35420	1.56500	26.63756		ацетальдегид
4.075	BV	1	3.88449	1.76261	26.76465		метилацетат
4.549	VV	1	5.88779	9.93171e-1	22.85851		этилацетат
4.632	VV	1	45.13608	1.41378e-4	2.49447e-2		метанол
4.897	VV	1	5.53714	9.40935e-1	20.36654		2-пропанол
5.032	VB S I	1	2.01908e5	1.00000	7.89270e5		этанол
7.057	VB	1	7.37778	7.03202e-1	20.28048		1-пропанол
8.778	BB	1	7.94120	6.29313e-1	19.53552		изобутиловый спирт
11.063	BB	1	8.10547	6.20938e-1	19.67426		1-бутанол
13.337	BB	1	8.35263	5.98564e-1	19.54367		изоамиловый спирт

PB-2

Метод внешнего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001759.D
Sample Name: 2

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 15:19:06 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 08.06.2022 14:22:28
Method Info : 25.06.2019 H2



External Standard Report

Sorted By : Signal
Calib. Data Modified : Wednesday, June 08, 2022 3:18:42 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A,

RetTime [min]	Type	Area [pA*s]	Amt/Area	Amount [мг/дм3]	Grp	Name
3.482	BB	1.87640	2.55080	4.78631		ацетальдегид
4.076	BB	1.61751	2.90136	4.69298		метилацетат
4.550	BV	2.73721	1.62350	4.44387		этилацетат
4.634	VB	22.07565	2.32182e-4	5.12558e-3		метанол
4.897	BV	2.66154	1.55854	4.14812		2-пропанол
5.034	VB S	1.92774e5	2.09954e-4	40.47365		этанол
7.059	BB	3.41357	1.15980	3.95907		1-пропанол
8.778	BB	3.85656	1.03917	4.00763		изобутиловый спирт
11.061	BB	3.86672	1.02306	3.95589		1-бутанол
13.336	BB	4.02269	9.80381e-1	3.94377		изоамиловый спирт

Totals : 74.41641

1 Warnings or Errors :

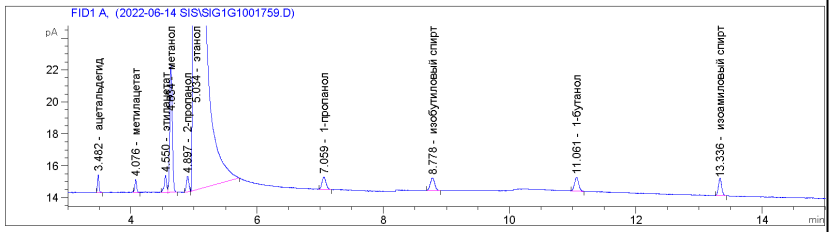
Warning : Calibration warnings (see calibration table listing)

Instrument 1 20.06.2022 12:21:21 Page 1 of 2

Метод внутреннего стандарта

Data File C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001759.D
Sample Name: 2

Acq. Operator :
Acq. Instrument : Instrument 1 Location : Vial 101
Injection Date : 14.06.2022 15:19:06 Inj : 1
Inj Volume : 1 µl
Acq. Method : D:\CHEM32\1\METHODS\VODKA_2019.M
Last changed : 08.06.2022 14:22:28
Analysis Method : C:\CHEM32\1\DATA\2022-06-14 SIS\SIG1G1001752.D\RUN.M
Last changed : 20.06.2022 13:18:05
(modified after loading)
Method Info : 25.06.2019 H2



Internal Standard Report

Sorted By : Signal
Calib. Data Modified : 20 June 2022 г. 13:18:05
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs
Sample ISTD Information:

ISTD #	ISTD Amount мг/л безво	Name
1	7.89270e5	этанол

Signal 1: FID1 A,

RetTime [min]	Type	ISTD used	Area [pA*s]	Amt/Area ratio	Amount мг/л безво	Grp	Name
3.482	BB	1	1.87640	1.56500	12.02309		ацетальдегид
4.076	BB	1	1.61751	1.76261	11.67293		метилацетат
4.550	BV	1	2.73721	9.93171e-1	11.13037		этилацетат
4.634	VB	1	22.07565	1.41378e-4	1.27783e-2		метанол
4.897	BV	1	2.66154	9.40935e-1	10.25342		2-пропанол
5.034	VB S I	1	1.92774e5	1.00000	7.89270e5		этанол
7.059	BB	1	3.41357	7.03202e-1	9.82802		1-пропанол
8.778	BB	1	3.85656	6.29313e-1	9.93674		изобутиловый спирт
11.061	BB	1	3.86672	6.20938e-1	9.83031		1-бутанол
13.336	BB	1	4.02269	5.98564e-1	9.85836		изоамиловый спирт

Instrument 1 20.06.2022 13:21:44 Page 1 of 2