

General notes:

Macros need to be enabled for the template to work as intended.

The general concept is that areas with blue or green coloration will require your data entry; everything else is calculated from your data entry or pulled from a table somewhere else.

Do not forget that IOMs need to be analyzed before and after each sequence, meaning you will need to provide current IOM sheets (provided during Phase One) for every batch of samples you run as well as each batch of calibrations you perform.

The following is a tab-by-tab guide with examples of each table.

Compounds Enter purity, manufacturer name and lot # for each of the compounds to be used for the test

Compound	CAS #	Density	Purity	MFG	Lot #
IPA	67-63-0	0.79	1.000	Aldrich	Example Lot
Triethylamine	121-44-8	0.73	1.000	Aldrich	Example Lot
Heptane	142-82-5	0.68	1.000	Aldrich	Example Lot
Toluene	108-88-3	0.87	1.000	Aldrich	Example Lot
EGDE	629-14-1	0.84	0.994	Aldrich	Example Lot
2-Butanone Oxime	96-29-7	0.90	1.000	Aldrich	Example Lot
Propylene Glycol	57-55-6	1.04	1.000	Aldrich	Example Lot
p-Xylene	106-42-3	0.86	1.000	Aldrich	Example Lot
Nonane	111-84-2	0.72	1.000	Aldrich	Example Lot
2-Heptanone	110-43-0	0.82	1.000	Aldrich	Example Lot
Mesitylene	108-67-8	0.86	1.000	Aldrich	Example Lot
Decane	124-18-5	0.74	1.000	Aldrich	Example Lot
Dipropylene Glycol Methyl Ether	34590-94-8	0.96	1.000	Aldrich	Example Lot
Undecane	1120-21-4	0.74	1.000	Aldrich	Example Lot
Dipropylene Glycol	106-62-7	1.03	1.000	Aldrich	Example Lot
NMP	872-50-4	1.03	1.000	Aldrich	Example Lot
Dodecane	112-40-3	0.75	1.000	Aldrich	Example Lot
Triglyme	112-49-2	0.99	1.000	Aldrich	Example Lot
Dipropylene Glycol Butyl Ether	29911-28-2	0.91	0.985	Aldrich	Example Lot
Texanol	25265-77-4	0.95	1.000	Aldrich	Example Lot
Tetraethylene Glycol	112-60-7	1.13	1.000	Aldrich	Example Lot
TXIB	6846-50-0	0.94	1.000	Aldrich	Example Lot
DIIBA	141-04-8	0.95	1.000	Aldrich	Example Lot
Benzophenone	119-61-9	1.00	1.000	Aldrich	Example Lot
Pentaethylene Glycol	4792-15-8	1.13	1.000	Aldrich	Example Lot
BFB	460-00-4	1.59	1.000	Aldrich	Example Lot
THF	109-99-9	0.89	0.990	Aldrich	Example Lot
Methanol	67-56-1	0.79	1.000	Aldrich	Example Lot

CallInfo

Enter calibration levels in top table

- 15,10,1,0.1 for IPA/DIIBA/Heptane/Triglyme
- 0.5, 0.2 for Tetraethylene glycol and pentaethylene glycol
- 15, 0.1 for all other compounds

Standards below 1 g/L will require a stepdown "Dilution Standard". 5 g/L is recommended since other concentrations have not been tested in the template.

STD Level 15 Filename 16MFD0301C1404.D			STD Level 15 Filename 16MFD0301C1406.D			STD Level 5 Filename 16MFD0301C1408.D			STD Level 5 Filename 16MFD0301C1410.D			STD Level 0.1 Filename 16MFD0301C1412.D			STD Level 0.1 Filename 16MFD0301C1414.D		
Retention Time	Area Counts	Assignment	Retention Time	Area Counts	Assignment	Retention Time	Area Counts	Assignment	Retention Time	Area Counts	Assignment	Retention Time	Area Counts	Assignment	Retention Time	Area Counts	Assignment
1.242	178819		1.244	156206		1.388	222265		1.389	213712		1.388	213872		1.389	211425	
1.389	299383		1.389	291058		2.619	962483		2.62	938667		4.289	604662		4.291	600296	
1.818	220984		1.816	214624		4.285	654919		4.287	650339		4.553	601486		4.554	609437	
2.619	2796656		2.614	2770046		4.551	648427		4.549	608904		6.147	89195246538	THF	6.148	89363149382	THF
3.036	211978		3.031	220634		6.144	91394602620	THF	6.142	88729867408	THF	7.175	2888159		7.176	2873000	
3.473	279904		3.466	280811		7.169	2953901		7.171	2844289		8.191	917490		8.192	920734	
4.294	715846		4.288	714849		8.183	1009502		8.186	966252		8.463	598367		8.464	605802	
4.562	643585		4.554	625177		8.456	624922		8.458	602201		9.409	451858		9.41	452000	
6.156	92308814677	THF	6.147	91265470919	THF	9.401	456281		9.404	446786		9.632	3149089		9.633	3153747	
7.18	2941410		7.172	2920128		9.624	3180081		9.627	3071701		12.256	403296664	EGDE	12.257	403999039	EGDE
7.468	4078157		7.463	473481		12.249	413831592	EGDE	12.251	400021976	EGDE	13.653	304407		13.654	333174	
8.193	1123622		8.185	1124518		13.645	457630		13.649	345576		17.237	189870		17.237	225979	
8.467	623147		8.459	619468		13.757	242816		13.757	242816		16.825	548494		16.825	548494	
9.412	451919		9.404	449468		16.823	553723		17.239	467844		17.609	208664		17.609	208664	
9.636	3182889		9.627	3181038		17.238	523174		17.41	181598		19.784	239892		19.785	242727	
12.259	421015159	EGDE	12.252	418553848	EGDE	17.608	228528		20.796	401758218		20.777	8515173		20.778	8528804	
13.655	387687		13.647	357895		19.388	623934		19.388	606187		21.292	401486		21.292	404044	
13.765	243701		13.762	1705590		19.795	327671		19.796	348138		22.136	4322340	Dipropylene Glycol	22.136	432270	Dipropylene Glycol
16.828	1727686		17.274	892477		20.546	654605		20.796	401758218		22.206	5278690	Dipropylene Glycol	22.207	5282225	Dipropylene Glycol
17.279	869390		19.282	407138		20.795	41161841		21.069	1169889		25.743	40534047		25.743	4057286	
19.285	377585		19.448	1883241		21.068	1189772		21.251	17231634							
19.452	1900323		19.835	378597		21.249	17591581		21.484	1687197							
19.839	394051		20.592	2132813		21.483	1747417		21.83	2902809							
20.596	2160379		20.826	121500187	1-Ethyl-Pyrrole	21.836	3042371		22.145	205863594	Dipropylene Glycol Butyl Ether						
20.829	1231440343		21.071	3856821		22.143	210795218	Dipropylene Glycol	22.217	243445851	Dipropylene Glycol Butyl Ether						
21.074	3920356		21.255	51298569		22.216	249259583	Dipropylene Glycol	22.543	707181	Dipropylene Glycol Butyl Ether						
21.258	52040036		21.409	1077771		22.542	7222148		24.087	3522273							
21.412	1148131		21.485	3101729		24.085	344870		24.579	309341							
21.488	3131204		21.829	6813629		24.579	290625		25.742	38936197							
21.828	7006658		22.161	637797005	Dipropylene Glycol	25.741	39806911										
22.164	64854187	Dipropylene Glycol	22.239	736705090	Dipropylene Glycol Butyl Ether												
22.242	74878764	Dipropylene Glycol	22.545	31119841													
22.548	23555565		22.807	1150671													
22.809	1255007		23.343	386204													
23.346	421180		24.091	10778966													
24.093	11725171		24.385	1457894													
24.387	1896723		24.587	1269423													
24.589	1313804		24.747	506896													
24.748	520527		25.568	804624													
25.57	690856		25.742	37100511													
25.743	37820567		28.449	254648													
28.45	230310		28.744	214576													
28.746	216024																

CalSummary Nothing needs to be done on this page; it simply summarizes the RRF and the % recoveries for each level. Nominal RRF values were provided via email in the past as a point of comparison for your determinations. Calibrations will need to be repeated for compounds with divergent RRFs and/or poor recoveries (> 15% difference or 0.02 g/L absolute, whichever is larger)

STD Level	Dipropylene Glycol Butyl Ether		Internal Standard		% Recovery	ABS. Diff	RRF/RF 1.0984 R2/RSD 0.9998 Levels 15/15/5/5/0.1/0.1 % R 100.0/99.1/103.8/104.9/106.7/106.6 ABS D 0.00/0.14/0.19/0.24/0.01/0.01
	Prep g/L	Area Counts	Prep g/L	Area Counts			
15	15.5000	1395432451	5.1370	421015159	100.0	0.00	
15	15.5000	1374502095	5.1370	418553848	99.1	0.14	
5	5.0077	460054801	5.1370	413831592	103.8	0.19	
5	5.0077	449209445	5.1370	400021976	104.9	0.24	
0.1	0.1039	9601030	5.1171	403296664	106.7	0.01	
0.1	0.1039	9608495	5.1171	403999039	106.6	0.01	

STD Level	EGDE		Internal Standard		% Recovery	ABS. Diff	RRF/RF 79939670 R2/RSD 2.2 Levels 15/15/5/5/0.1/0.1 % R 102.5/101.9/100.8/97.4/98.6/98.8 ABS D 0.13/0.10/0.04/0.13/0.07/0.06
	Prep g/L	Area Counts	Prep g/L	Area Counts			
15	5.1370	421015159	5.1370	421015159	102.5	0.13	
15	5.1370	418553848	5.1370	418553848	101.9	0.10	
5	5.1370	413831592	5.1370	413831592	100.8	0.04	
5	5.1370	400021976	5.1370	400021976	97.4	0.13	
0.1	5.1171	403296664	5.1171	403296664	98.6	0.07	
0.1	5.1171	403999039	5.1171	403999039	98.8	0.06	

CalExport If the calibrations are considered acceptable, they should be stored with this tab by pressing the "Save Calibrations Button". If "Set Internal Standard RF" is set to "Yes" then the IS cal factor will be collected as well. Do this during the first calibration and then do not do it again. The internal standard cal factor and all RRFs are stored in the RRF tab at the end of the workbook.

Calibration Summary

Set Internal Standard RF?	Yes	Save Calibrations				
Compound	CAS #	CAS #	RF/RRF	R2/RSD	MFG	Lot #
Dipropylene Glycol Butyl Ether	29911282	29911-28-2	1.0984	0.9998	Aldrich	Example Lot
EGDE	629141	629-14-1	79939670	2.2	Aldrich	Example Lot

Note: Pressing “Save Calibrations” will also store a copy of the current CalSummary page as a hidden page in the workbook.

CSV Prep

This page is where all the prep data for the CSVs is stored. Only 2 CSVs need to be prepared if Samples 1-3 are analyzed in the same batch. If each sample is prepared and analyzed on different days then all 4 CSV prep slots will require completion.

Indicate the prep date, and volumetric flask size.

The table will indicate how the standard should be prepared. Enter in the measured mass of each component in the standard and the concentration of each component will be calculated.

Once masses have been added to the prep table, click “Create Table” to build a new tab in the workbook where the retention times and area counts can be entered.

CSV Prep		CSV 1		
Prep Date:		10/22/16		Create Table
Flask Volume (mL):		25		
	To Add	Mass (g)	g/L	
25 mL Flask	-	47.3960	-	
THF	10 mL	60.5280	520.03	
EGDE	150 uL	60.6561	5.09	
Triglyme	26 uL	60.6815	1.00	
IPA	31 uL	60.7052	0.95	
DIIBA	26 uL	60.7299	0.98	
Heptane	36 uL	60.7537	0.94	
QS w/ THF to 25 mL	To 25 mL	69.3103	-	

Note: Clicking “Create Table” after data has been entered will clear all data entered for that standard in the new (CSV X Data) tab.

CSV X Data

Similar to the Cal Data sheet—add the filenames, retention times, area counts, and then assign each of the CSV constituents. A and B injections should be injected prior to sample injections, with C and D injections afterwards.

ID: CSV 1 A			ID: CSV 1 B			ID: CSV 1 C			ID: CSV 1 D		
Filename 16MFD0301C1408.D			Filename 16MFD0301C1410.D			Filename 16MFD0301C1428.D			Filename 16MFD0301C1430.D		
RT (min)	Area Counts	Compound ID	RT (min)	Area Counts	Compound ID	RT (min)	Area Counts	Compound ID	RT (min)	Area Counts	Compound ID
1.39	196408		1.39	207262		1.40	176202		3.23	10133252	IPA
3.23	10183770	IPA	3.23	9807102	IPA	3.23	10182811	IPA	3.46	73312314	IPA
3.46	74347261	IPA	3.45	73522073	IPA	3.46	73397521	IPA	4.29	598969	
4.29	650067		4.29	635817		4.29	588996		4.55	607272	
4.55	602077		4.55	598595		4.55	605239		6.15	87803348784	
6.15	88700003936		6.14	87398115602		6.15	87881230646		6.90	870284	
6.90	874538		6.90	859515		6.90	872110		7.18	3344011	
7.18	3495127		7.17	3320400		7.18	3349553		7.55	157938772	Heptane
7.55	160457650	Heptane	7.54	158154359	Heptane	7.55	158174567	Heptane	8.20	927944	
8.19	913985		8.19	904019		8.20	935578		8.47	705643	
8.47	734666		8.47	714568		8.47	712962		8.55	923541	
8.55	921884		8.55	923512		8.55	915626		9.42	445425	
9.41	452699		9.41	446834		9.41	450821		9.64	3072739	
9.63	3175341		9.63	3139518		9.64	3091251		12.26	383837225	EGDE
12.26	401997314	EGDE	12.26	398037726	EGDE	12.26	385312095	EGDE	15.93	292582	
13.65	301560		13.65	290919		15.93	284733		17.62	330585	
17.24	193034		17.24	221861		17.62	333136		21.46	454131	
17.61	217341		17.61	395330		21.46	464570		21.94	54230111	Triglyme
19.78	239623		19.78	232420		21.94	54658919	Triglyme	22.18	247858	
21.94	60635382	Triglyme	21.94	60253882	Triglyme	22.18	259233		24.60	453957	
22.18	275483		22.18	270951		24.60	457617		24.68	356809	
24.60	507061		24.60	531681		24.68	409780		25.75	35668321	
25.74	39621846		25.74	39384158		25.75	36036066		25.99	233112	
26.46	563712		26.46	556646		25.99	298994		26.46	410654	
28.00	106453301	DIIBA	28.00	105831006	DIIBA	26.46	415999		27.37	1549366	
28.58	338914		28.58	339188		27.37	1901931		27.66	4734777	
						27.66	5542563		28.01	95757579	DIIBA
						28.01	96508267	DIIBA	28.58	297839	
						28.58	293690		33.02	300121	
						33.02	299828		33.16	1651604	
						33.16	2091023				

As with everywhere else in this template, peaks with the same ID get summed as with IPA here.

CSV Summary

This tab summarizes the results for the CSV injections and requires no action from the user if all QC passes.

CSV 1								
			A + B			C + D		
Compound	Prep g/L	RRF	Avg. AC	g/L	% Recovery	Avg. AC	g/L	% Recovery
EGDE	5.09	6.17E+7	400017520	6.48	127.3	384574660	6.23	122.4
IPA	0.95	1.058626	83930103	1.01	106.5	83512949	1.04	110.2
Heptane	0.94	2.050724	159306004.5	0.99	104.9	158056670	1.02	108.3
Triglyme	1.00	0.757913	60444632	1.02	101.3	54444515	0.95	94.9
DIIBA	0.98	1.400111	106142153.5	0.97	98.5	96132923	0.91	92.8

CCV Prep

This page is where all the prep data for the CCVs is stored. Only 2 CCVs need to be prepared if Samples 1-3 are analyzed in the same batch. If each sample is prepared and analyzed on different days then all 4 CCV prep slots will require completion.

Indicate the prep date, and volumetric flask size.

The “In Set?” table allows you to create the appropriate standard easily—if you select that you are running Sample #1 and Sample #2 in the same sequence you’ll be given the prep instructions with the 6 compounds that are required. Samples 1-3 can be analyzed in the same sequence, but Sample #4 must be analyzed on its own. To reinforce this concept, Sample #4 fills the entire CCV table.

ID: CCV 1 A			ID: CCV 1 B			ID: CCV 1 C			ID: CCV 1 D		
Filename 16MFD0301C1412.D			Filename 16MFD0301C1414.D			Filename 16MFD0301C1424.D			Filename 16MFD0301C1426.D		
RT (min)	Area Counts	Compound ID	RT (min)	Area Counts	Compound ID	RT (min)	Area Counts	Compound ID	RT (min)	Area Counts	Compound ID
1.39	200161		1.38	196146		4.29	600409		4.29	581979	
4.29	688141		4.29	669884		4.55	693176		4.55	679993	
4.55	624395		4.54	604734		6.14	87589277473		6.14	87088466868	
6.14	87702769921		6.14	86053724834		7.20	123270190	Triethylamine	7.20	123105320	Triethylamine
7.20	126304050	Triethylamine	7.20	124066697	Triethylamine	8.04	58446166		8.04	58169136	
8.04	60263783		8.03	59243591		8.19	1317781		8.19	1303658	
8.19	1306699		8.19	1292252		8.46	601085		8.47	592542	
8.46	604650		8.46	590515		9.41	475296		9.41	495958	
9.41	507984		9.41	493120		9.63	3145873		9.63	313353	
9.63	3234172		9.63	3167034		12.26	380701421	EGDE	12.26	379377696	EGDE
12.25	396286557	EGDE	12.25	389856837	EGDE	15.93	348237		15.93	330319	
16.19	91323318		16.19	89863572		16.19	84874782		16.19	84083304	
17.24	203939		17.61	270524		17.61	369854		17.61	383355	
17.61	311491		18.24	179012		18.24	191478		18.24	185024	
18.24	258474		19.78	238099		21.04	293835		21.56	76829822	
19.78	276288		21.56	83312429		21.56	77488012		22.85	150347	
21.56	84598341		22.85	163593		22.85	156976		23.62	1829488	
22.85	164824		23.62	2002031		23.62	1839093		24.24	44613232	
23.62	2033048		24.24	49113840		24.24	44953475		24.46	55822114	
24.24	49928356		24.46	60929096		24.46	56096173		24.68	572173	
24.46	61926666		24.61	467904		24.68	1879814		24.68	1027352	
24.61	478047		25.74	39042423		24.94	548469		24.94	386138	
25.74	39686204		26.91	677738		25.52	807809		25.52	212643	
26.91	689531					25.74	37106843		25.74	36050593	
						25.99	977502		25.99	374808	
						26.91	698664		26.91	596033	
						27.36	4894546		27.36	2796773	
						27.66	12750097		27.66	8438907	
						32.55	1682955		32.78	1648409	
						32.69	680709		33.02	478322	
						32.80	861046		33.16	4912672	
						33.16	17886755				

This example is just the Triethylamine assignment. You would also add the other 3 compounds onto this page as well if you were performing this part for the study.

CSV Summary This tab summarizes the results for all of the CCV injections and requires no action from the user if all QC passes.

CCV 1								
Compound	Prep g/L	RRF	A + B			C + D		
			Avg. AC	g/L	% Recovery	Avg. AC	g/L	% Recovery
EGDE	5.06	6.17E+7	393071697	6.37	125.9	380039559	6.16	121.7
Triethylamine	0.94	1.556217	125185374	1.04	109.6	123187755	1.05	111.6

Again, this example includes only Triethylamine.

Sample #X This is where the heavy lifting will be performed. Enter the Sample Information for each sample, which will be provided to you on or before 10/28.

Sample Information	
Density (g/mL)	1.3492
Wt% Water	53.5
Wt % Non-Volatiles	45.0
Wt % pCBTF	0.0
Wt % D4	0.0
Wt % D5	0.0

The Sample Spiking table will instruct on preparation depending on your sample starting mass. It's intended that you use 30 g. Alternate values may work, but were not tested in this template. Add your masses to the table to enable g/L calculations downstream.

Sample Spiking				
Target Mass (g)		30		
		To Add	Mass	Wt fx
	Vial	-	24.9002	-
	Sample #1	30 g	62.0149	0.974
	Triglyme	250 uL	62.2649	0.006
	IPA	310 uL	62.5234	0.007
	DIIBA	250 uL	62.7652	0.006
	Heptane	350 uL	63.0114	0.006

The Sample Dilution volume must be entered, after which the table will instruct on how to prep the samples. Add your sample dilution values to the table. Make sure to specify the retention time for methyl palmitate in the bottom-left most portion of the tab.

Sample Dilution			
Flask Volume (mL)		25	
		To Add	Mass
	25 mL Flask	-	49.2075
	THF	~ 10 mL	61.3285
	EGDE	150 uL	61.4564
	Spiked Sample #1	~ 2.5 g	64.1444
	QS to 25 mL	To 25 mL	72.1859
	Triglyme		0.70
	IPA		0.73
	DIIBA		0.68
	Heptane		0.69
Methyl Palmitate RT (Min)		32.8	

The next two tables are provided to help decide which peaks in the samples originate from the solvent or spike contaminants. Paste your retention times and area counts into the Pre-Sample Blank table—this blank should be injected immediately prior to the sample in question. The g/L concentration is estimated with an assumed 5 g/L internal

standard with the assumption that the second largest peak is the internal standard peak. If this assumption does not hold, the g/L value should be ignored.

The CSV table allows you to select the CSV from the blue header of the table, which means that you don't need to paste in those values yourself. You can also type in the name of the CSV injection, but it should always be the second, or "B", injection of the CSV that's used in that sample's batch. If you see errors on the CSV table, it's probably because you're pulling from a CSV with no data in it. Switch to the appropriate CSV and it should resolve the issue.

From the Blank and CSV tables, you will determine which peaks in the sample are directly attributable to the solvent and spike contaminants. You will assign those peaks as "solvent" on the Sample tables.

Pre-Sample #1 Blank			CSV 1 B		
RT (min)	Area Counts	~ Measured g/L*	RT (min)	Area Counts	~ Measured g/L*
1.39	357945	0.01	1.39	207262	0.00
4.29	730587	0.01	3.23	9807102	0.17
4.55	612694	0.01	3.45	73522073	1.24
6.15	89004224244	1436.08	4.29	635817	0.01
7.18	2872348	0.05	4.55	598595	0.01
8.19	919351	0.01	6.14	87398115602	1475.55
8.46	597098	0.01	6.90	859515	0.01
9.41	448730	0.01	7.17	3320400	0.06
9.63	3191981	0.05	7.54	158154359	2.67
12.26	408866826	6.60	8.19	904019	0.02
13.65	627846	0.01	8.47	714568	0.01
13.76	255410	0.00	8.55	923512	0.02
17.23	774509	0.01	9.41	446834	0.01
17.61	395289	0.01	9.63	3139518	0.05
19.78	312640	0.01	12.26	398037726	6.72
25.74	40661936	0.66	13.65	290919	0.00
			17.24	221861	0.00
			17.61	395330	0.01
			19.78	232420	0.00
			21.94	60253882	1.02
			22.18	270951	0.00
			24.60	531681	0.01
			25.74	39384158	0.66
			26.46	556646	0.01
			28.00	105831006	1.79
			28.58	339188	0.01

Paste in each sample's retention times and area counts in the appropriate Sample tables, then assign the ID for each of the 4 surrogate spikes and the internal standard.

Next, assign the IDs for any calibrated compounds you see in the sample. This will automatically calculate the concentration of that peak using a stored RRF. Work through each peak and determine if it originates from the blank and/or the CSV and assign it the "solvent" classification if it does. Make sure that any peaks which elute at or after the

methyl palmitate retention time receive a designation of “After MeP” so they aren’t tallied in the final VOC count.

All unassigned peaks should be left blank in the assignment column and will automatically calculate using the Triglyme RRF. The user should **not** assign Triglyme as an ID for anything but the Triglyme spike as any peaks assigned as Triglyme will count for the Triglyme recovery and not for the total VOC.

The Sample g/L column will factor in the dilution of the sample, whereas the Measured g/L does not. Any cells colored blue in the “Qual ID” column require an ID from the Mass Spectrometer since they exceed 1 g/L and are not already accounted for by the calibrated compounds, spikes, or solvent assignments. *Please don’t forget to do this, especially for sample #4!*

Sample #1 A						
RT (min)	Area Counts	Assignment	RF/RRF	Measured g/L	Sample g/L	Qual ID (CAS #)
2.73	491432		0.758	0.01	0.11	
3.23	2816393	IPA	1.059	0.03		
3.44	56630679	IPA	1.059	0.68		
4.29	589357	Solvent	0.000	0.00	0.00	
4.53	520986	Solvent	0.000	0.00	0.00	
6.11	80179987024	Solvent	0.000	0.00	0.00	
6.90	1021406		0.758	0.02	0.22	
7.18	3557944	Solvent	0.000	0.00	0.00	
7.54	112489318	Heptane	2.051	0.69		
8.19	1129229	Solvent	0.000	0.00	0.00	
8.47	1459080	Solvent	0.000	0.00	0.00	
9.41	423912	Solvent	0.000	0.00	0.00	
9.64	3192364	Solvent	0.000	0.00	0.00	
12.26	401828462	EGDE	6.17E+7	6.51		
12.66	1376411		0.758	0.02	0.30	
16.71	354909		0.758	0.01	0.08	
17.65	742712	Solvent	0.000	0.00	0.00	
18.58	496652		0.758	0.01	0.11	
18.77	2143209		0.758	0.04	0.46	
19.23	698023		0.758	0.01	0.15	
20.43	907125		0.758	0.02	0.20	
20.89	1543441		0.758	0.03	0.33	
21.11	902762		0.758	0.02	0.19	
21.71	700338		0.758	0.01	0.15	
21.94	40062257	Triglyme	0.758	0.67		
22.17	262642		0.758	0.00	0.06	
22.39	1660728		0.758	0.03	0.36	
23.78	559766		0.758	0.01	0.12	
24.61	518021		0.758	0.01	0.11	
25.74	35586301	Solvent	0.000	0.00	0.00	
28.00	69281121	DIIBA	1.400	0.63		
28.58	216448		0.758	0.00	0.05	
37.56	2101195	After MeP	0.000	0.00	0.00	
40.32	13521124	After MeP	0.000	0.00	0.00	

It should be noted that the EGDE peak should be assigned first since a g/L calculation cannot be completed until the spreadsheet is made aware of the EGDE concentration. Not having g/L values as guides makes the table more difficult to work with. Complete both injections of each sample in this manner.

Sample Summary

This tab is a collection of the information for the 4 samples, consisting of the final VOC Material/Coating results and the Spike Recoveries for each sample. If the recoveries are acceptable and if the replicate sample injections are proximal then no action is required by the user.

Sample #1						
		Injection #1	Injection #2		Average g/L	
VOC Material		2.80	2.37		2.58	
VOC Coating		10				
Calculated Water Wt %		54.8				
	Prep (g/L)	Injection #1		Injection #2		
		Meas (g/L)	% Recovery	Meas (g/L)	% Recovery	
EGDE	5.09	6.51	128.1	6.43	126.4	
IPA	0.73	0.71	97.5	0.71	97.2	
Heptane	0.69	0.69	101.0	0.69	100.3	
Triglyme	0.70	0.67	96.1	0.68	98.1	
DIIBA	0.68	0.63	92.5	0.64	95.3	

RRFs

This is a collection of the Response Factors and Relative Response Factors accumulated throughout the test, along with the metadata for the calibrations. This tab requires no action from the user.

Thank you again for your participation in this study—I hope the template makes your job much easier than it would be otherwise. If you have any questions about how to use this template, or have any questions about what you are expected to be provide following analysis, please get in touch with me.