

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD070323\
 Data File : VD076693.D
 Acq On : 03 Jul 2023 15:35
 Operator : KP/SY
 Sample : 03472-13RE
 Misc : 5.90G/10.0ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 A46S5RE

Quant Time: Jul 04 01:11:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061523SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jun 16 01:50:34 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	8.775	114	206668	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	194358	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	92842	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.275	65	25292	5.025	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	20.120%#
7) Chloroethane-d5	2.793	69	31978	7.858	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	31.440%
11) 1,1-Dichloroethene-d2	3.911	65	10289	7.832	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	31.320%#
21) 2-Butanone-d5	6.987	46	45938	60.268	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	120.540%
24) Chloroform-d	7.563	84	84603	15.538	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	62.160%
26) 1,2-Dichloroethane-d4	8.228	65	48956	18.226	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	72.920%
32) Benzene-d6	8.199	84	123221	10.364	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	41.440%
36) 1,2-Dichloropropane-d6	9.210	67	52467	13.825	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	55.320%#
41) Toluene-d8	10.269	98	108358	9.843	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	39.360%
43) trans-1,3-Dichloroprop...	10.522	79	22104	14.003	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	56.000%
47) 2-Hexanone-d5	10.875	63	32358	54.928	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	109.860%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	62095	22.999	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.000%
66) 1,2-Dichlorobenzene-d4	13.810	152	48929	14.378	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	57.520%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	2.281	62	48900	8.467	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	3.964	101	71707	26.474	ug/L	97
12) 1,1-Dichloroethene	3.940	96	1929	0.719	ug/L #	19
13) Acetone	4.022	43	1132	1.839	ug/L	95
14) Carbon disulfide	4.269	76	9739	1.002	ug/L #	92
16) Methylene chloride	4.805	84	6255	1.741	ug/L	74
17) trans-1,2-Dichloroethene	5.316	96	1390	0.465	ug/L	77
19) 1,1-Dichloroethane	6.105	63	52571	9.616	ug/L	95
20) cis-1,2-Dichloroethene	7.075	96	412475	123.510	ug/L	98
25) Chloroform	7.593	83	3745	0.702	ug/L	97
27) 1,2-Dichloroethane	8.328	62	7096	2.163	ug/L #	86
30) 1,1,1-Trichloroethane	7.793	97	187175	41.455	ug/L	99
31) Carbon tetrachloride	7.787	117	25461	7.051	ug/L	96
34) Trichloroethene	9.022	95	18523	5.606	ug/L	85
37) 1,2-Dichloropropane	9.210	63	6129	1.748	ug/L #	88
45) 1,1,2-Trichloroethane	10.704	97	3052	1.269	ug/L #	26
46) Tetrachloroethene	10.810	164	100266	38.597	ug/L	95
49) Dibromochloromethane	10.810	129	85758	31.371	ug/L #	10
57) 1,1,2,2-Tetrachloroethane	12.657	83	1494	0.543	ug/L #	71

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Quant Title : SFAM01.0
QLast Update : Fri Jun 16 01:50:34 2023
Response via : Initial Calibration

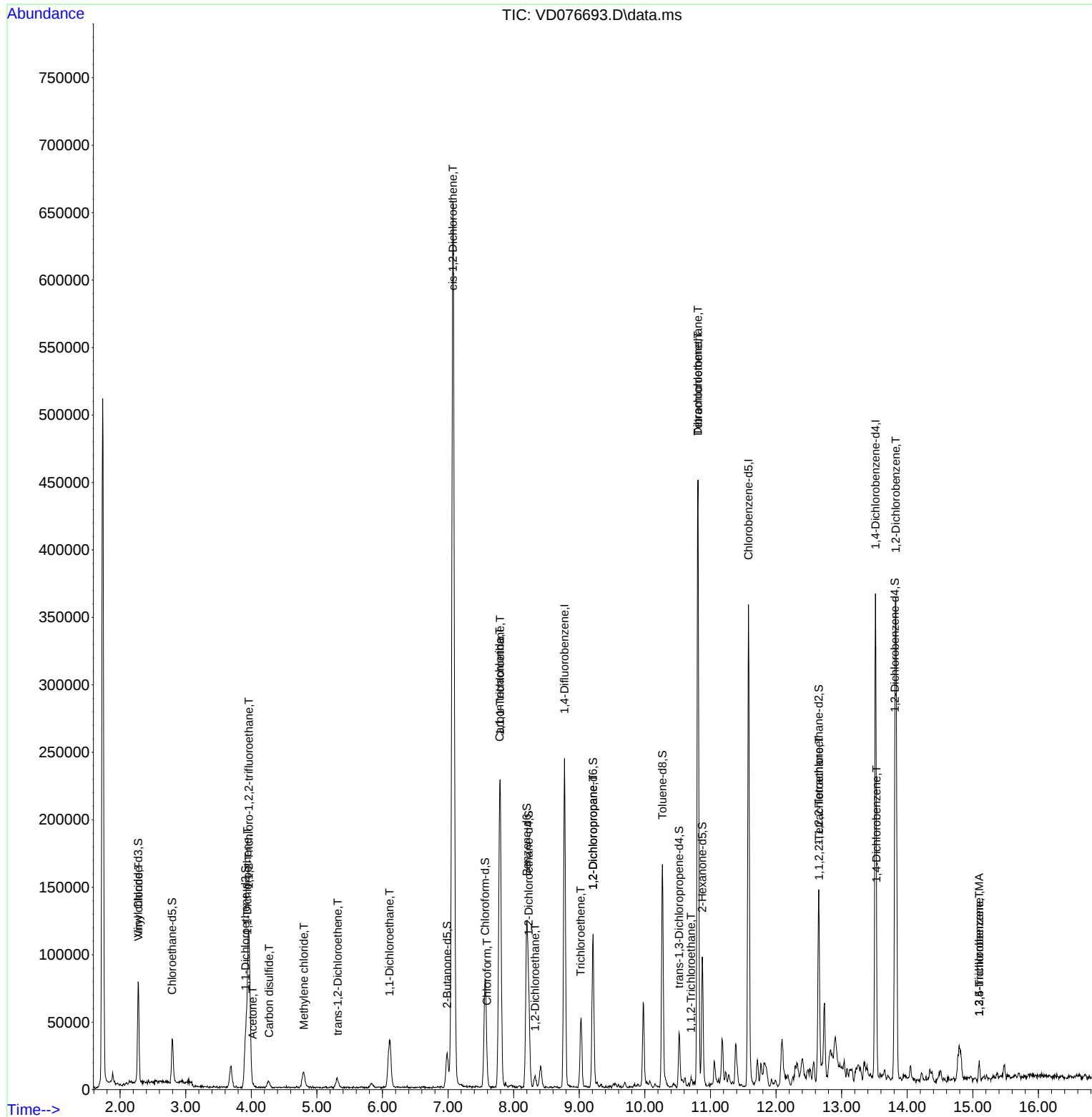
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	13.534	146	2461	0.386	ug/L #	86
67) 1,2-Dichlorobenzene	13.828	146	104913	18.641	ug/L	96
69) 1,3,5-Trichlorobenzene	15.098	180	3216	0.763	ug/L #	79
70) 1,2,4-trichlorobenzene	15.098	180	3216	0.858	ug/L #	90

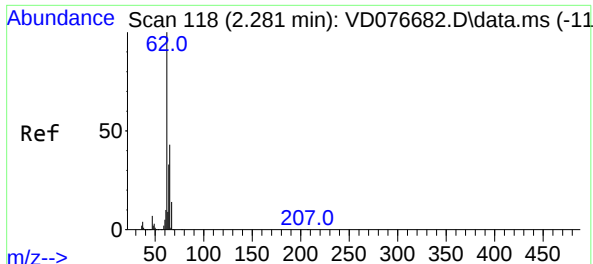
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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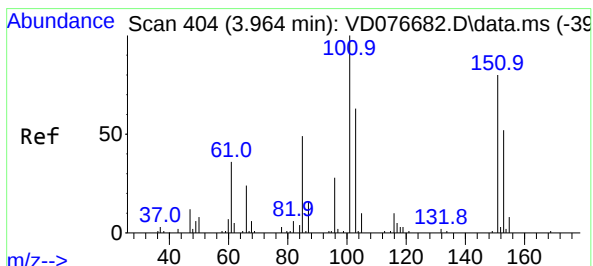
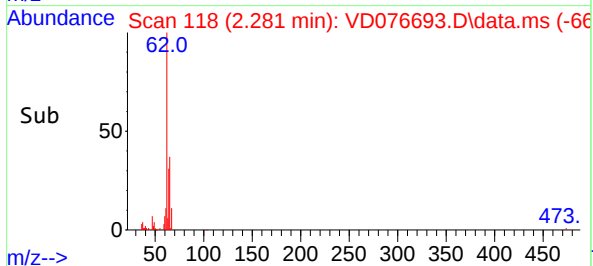
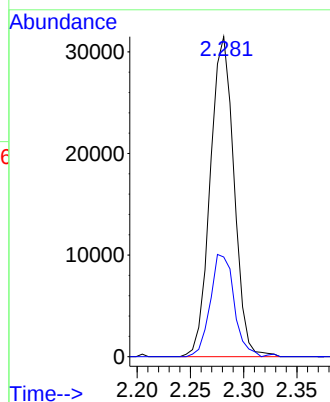
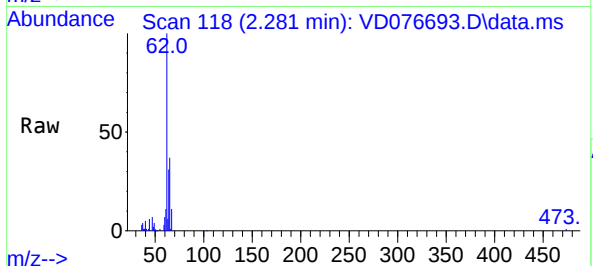




#5
 Vinyl chloride
 Concen: 8.467 ug/L
 RT: 2.281 min Scan# 118
 Delta R.T. 0.006 min
 Lab File: VD076693.D
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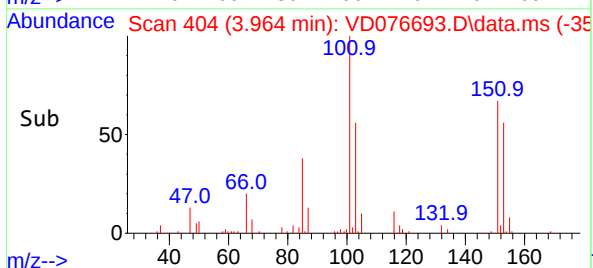
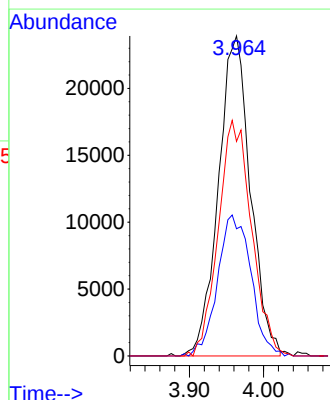
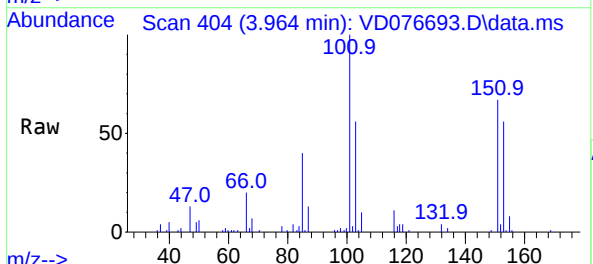
Instrument :
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 ClientSampleId :
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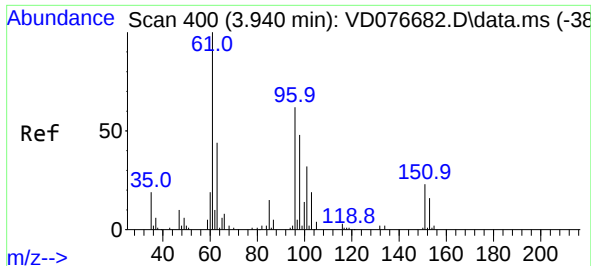
Tgt Ion: 62 Resp: 48900
 Ion Ratio Lower Upper
 62 100
 64 31.1 21.1 39.1



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 26.474 ug/L
 RT: 3.964 min Scan# 404
 Delta R.T. 0.006 min
 Lab File: VD076693.D
 Acq: 03 Jul 2023 15:35

Tgt Ion: 101 Resp: 71707
 Ion Ratio Lower Upper
 101 100
 85 45.8 35.5 53.3
 151 76.3 58.6 87.8

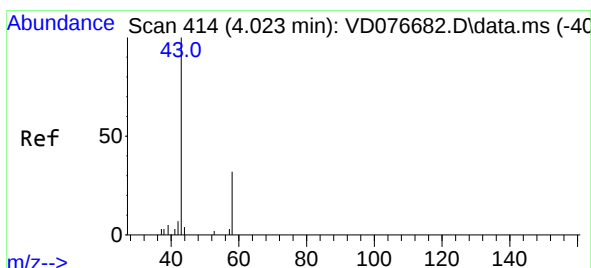
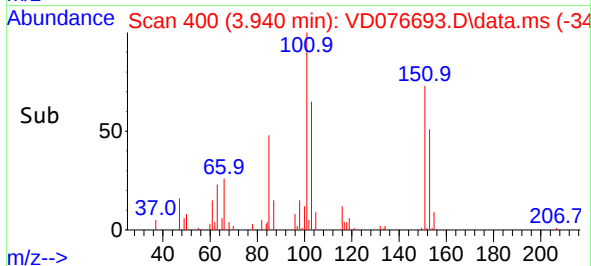
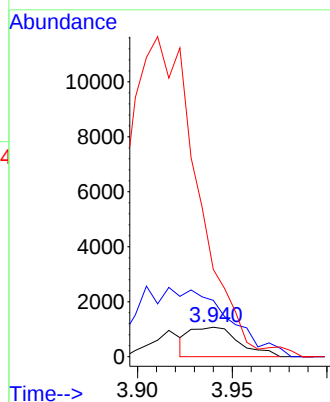
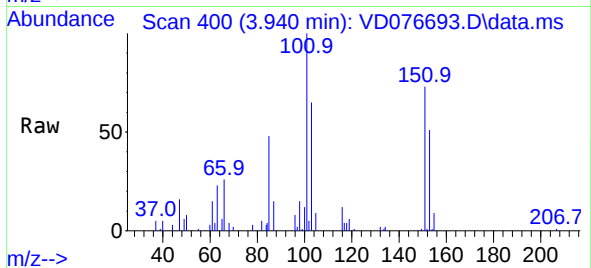




#12
1,1-Dichloroethene
Concen: 0.719 ug/L
RT: 3.940 min Scan# 400
Delta R.T. 0.012 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

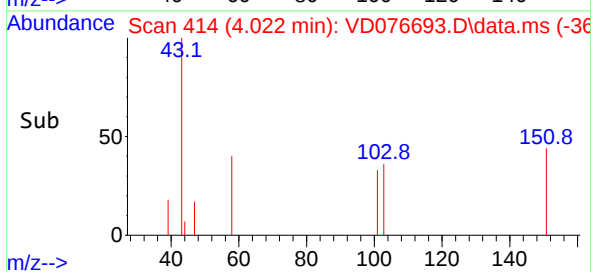
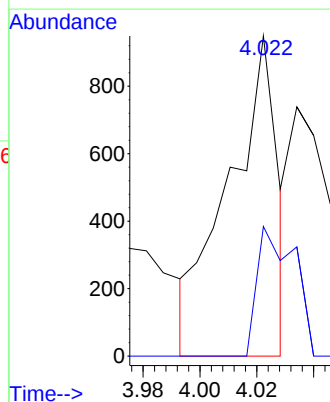
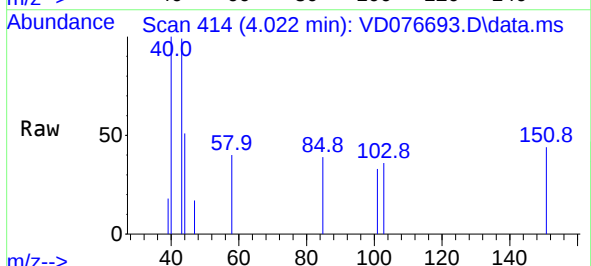
Instrument :
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ClientSampleId :
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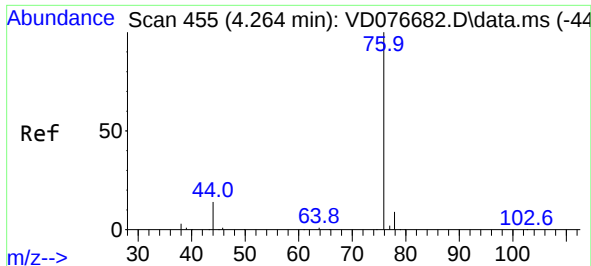
Tgt Ion: 96 Resp: 1929
Ion Ratio Lower Upper
96 100
61 191.2 113.0 209.8
63 295.8 83.6 155.2#



#13
Acetone
Concen: 1.839 ug/L
RT: 4.022 min Scan# 414
Delta R.T. -0.000 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

Tgt Ion: 43 Resp: 1132
Ion Ratio Lower Upper
43 100
58 30.9 0.0 67.4

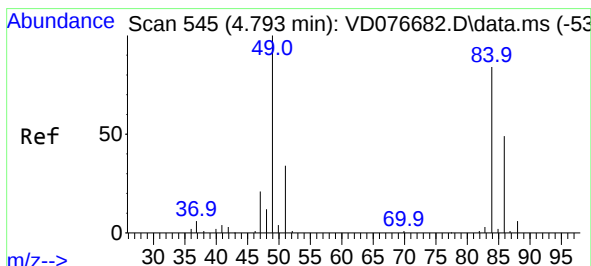
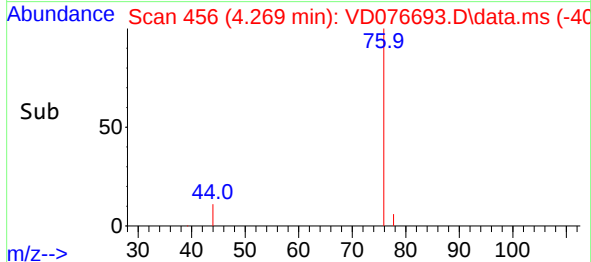
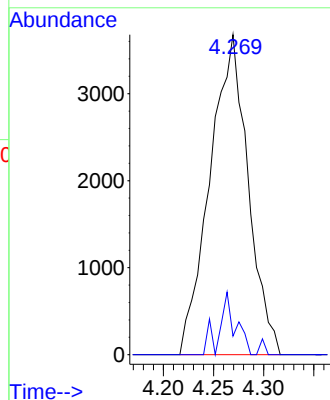
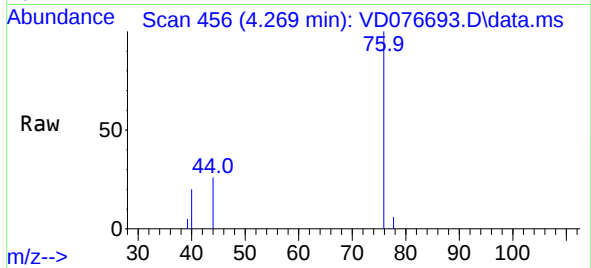




#14
Carbon disulfide
Concen: 1.002 ug/L
RT: 4.269 min Scan# 41
Delta R.T. 0.006 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

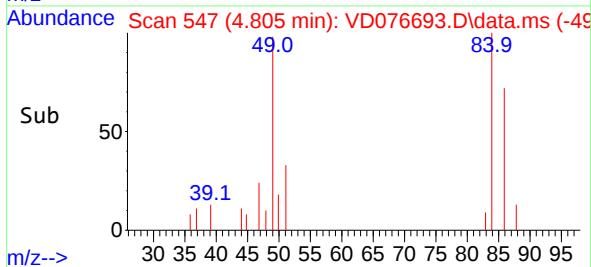
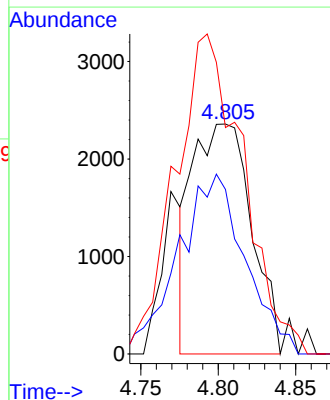
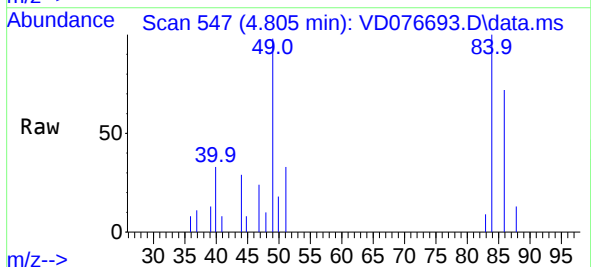
Instrument :
MSVOA_D
ClientSampleId :
A46S5RE

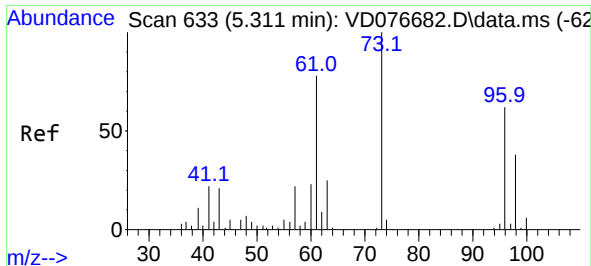
Tgt Ion: 76 Resp: 9739
Ion Ratio Lower Upper
76 100
78 5.8 7.0 10.4#



#16
Methylene chloride
Concen: 1.741 ug/L
RT: 4.805 min Scan# 547
Delta R.T. 0.018 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

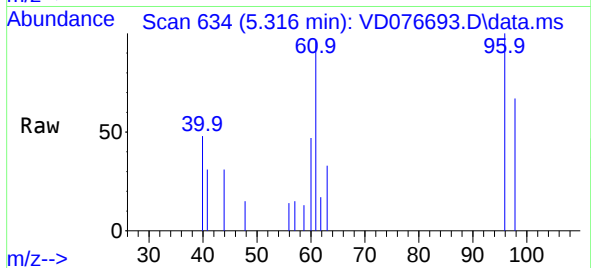
Tgt Ion: 84 Resp: 6255
Ion Ratio Lower Upper
84 100
86 71.5 45.1 83.9
49 98.5 97.2 180.6



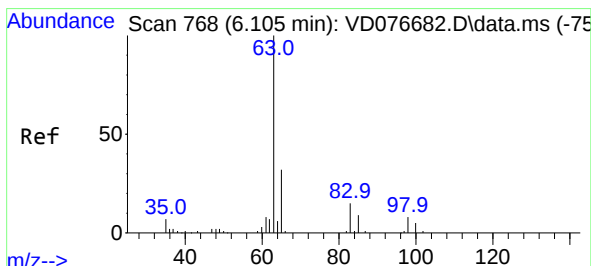
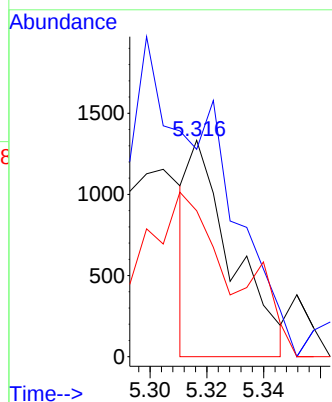
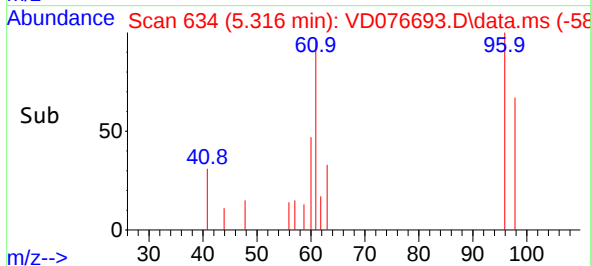


#17
trans-1,2-Dichloroethene
Concen: 0.465 ug/L
RT: 5.316 min Scan# 61
Delta R.T. 0.006 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

Instrument :
MSVOA_D
ClientSampleId :
A46S5RE

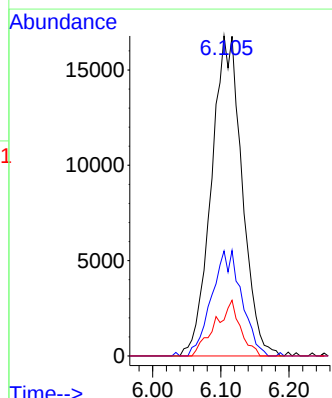
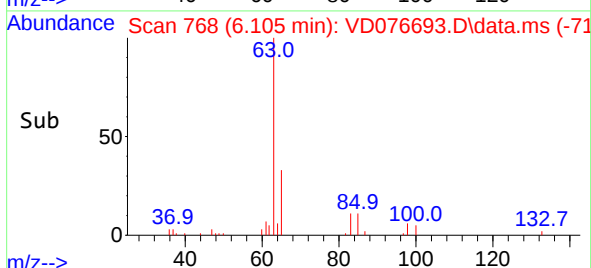
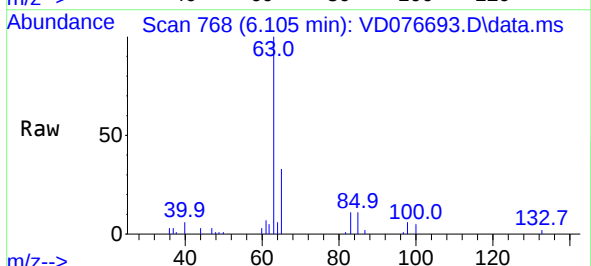


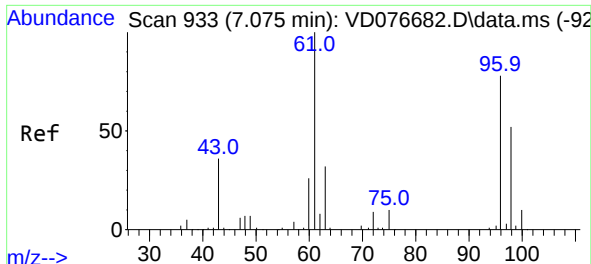
Tgt Ion: 96 Resp: 1390
Ion Ratio Lower Upper
96 100
61 95.9 94.5 175.5
98 67.4 46.0 85.4



#19
1,1-Dichloroethane
Concen: 9.616 ug/L
RT: 6.105 min Scan# 768
Delta R.T. -0.000 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

Tgt Ion: 63 Resp: 52571
Ion Ratio Lower Upper
63 100
65 32.8 20.8 38.6
83 11.3 8.9 16.5

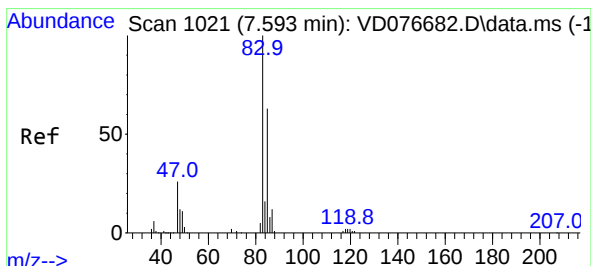
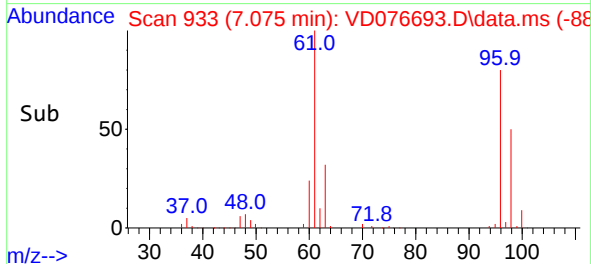
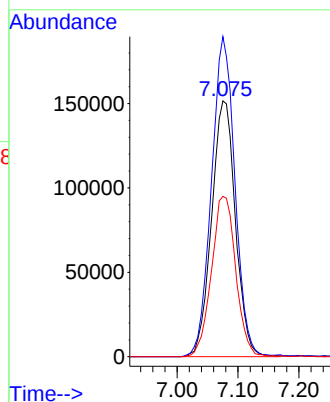
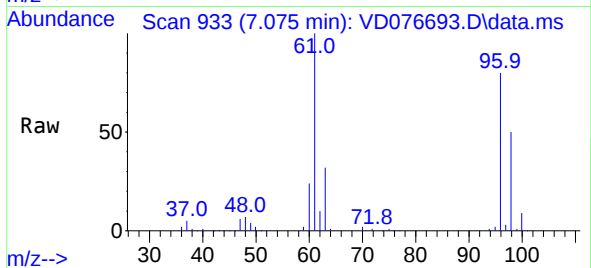




#20
cis-1,2-Dichloroethene
Concen: 123.510 ug/L
RT: 7.075 min Scan# 91
Delta R.T. -0.000 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

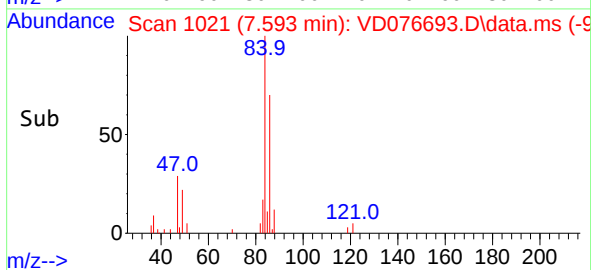
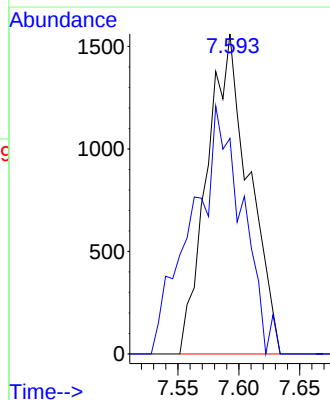
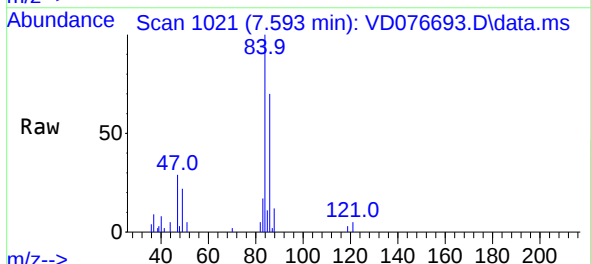
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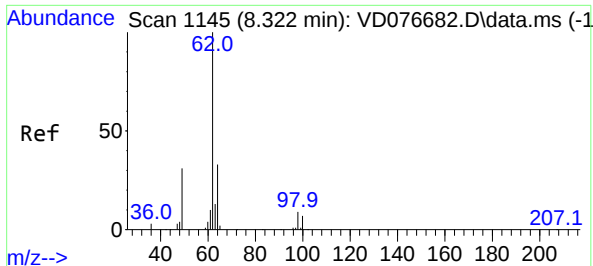
Tgt Ion: 96 Resp: 412475
Ion Ratio Lower Upper
96 100
61 125.1 86.0 159.6
98 62.7 42.2 78.4



#25
Chloroform
Concen: 0.702 ug/L
RT: 7.593 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

Tgt Ion: 83 Resp: 3745
Ion Ratio Lower Upper
83 100
85 67.3 45.4 84.4

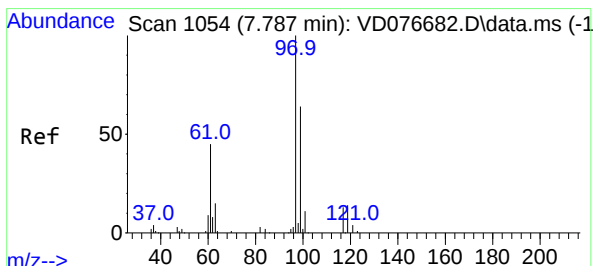
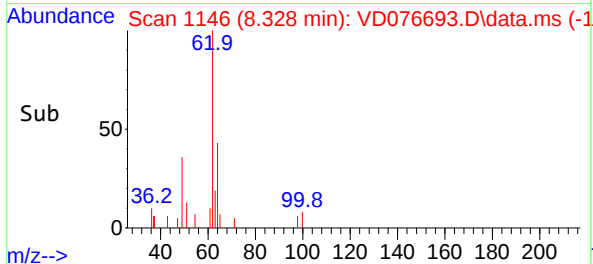
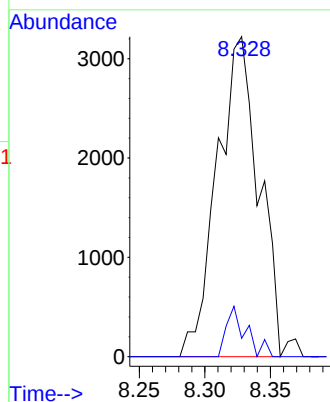
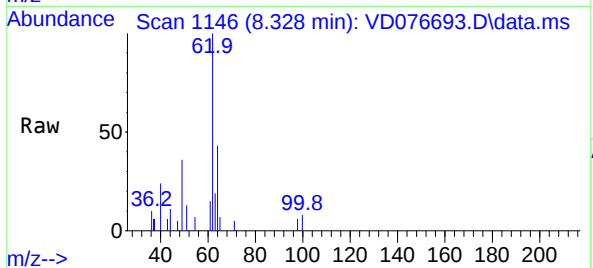




#27
1,2-Dichloroethane
Concen: 2.163 ug/L
RT: 8.328 min Scan# 1145
Delta R.T. 0.006 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

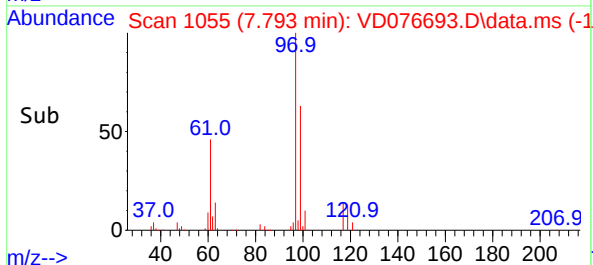
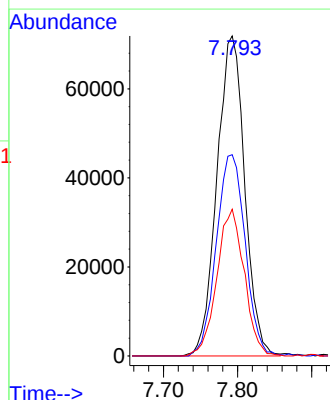
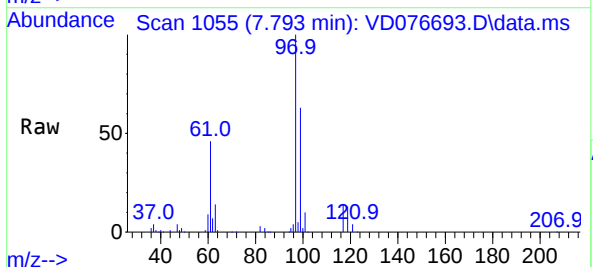
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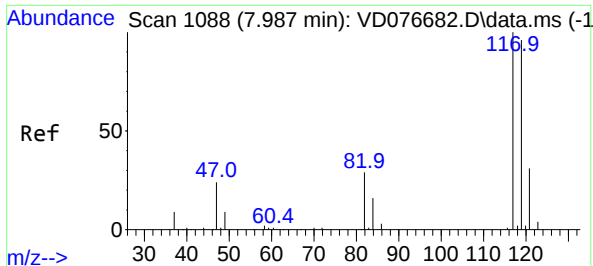
Tgt Ion: 62 Resp: 7096
Ion Ratio Lower Upper
62 100
98 5.7 8.7 13.1#



#30
1,1,1-Trichloroethane
Concen: 41.455 ug/L
RT: 7.793 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

Tgt Ion: 97 Resp: 187175
Ion Ratio Lower Upper
97 100
99 65.5 51.0 76.6
61 45.2 36.4 54.6

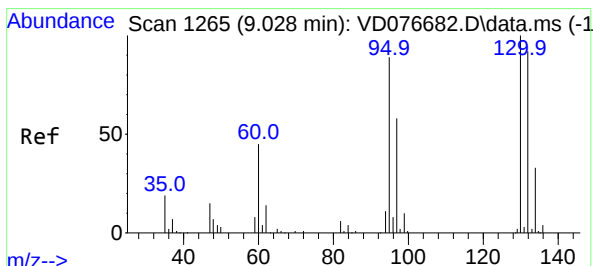
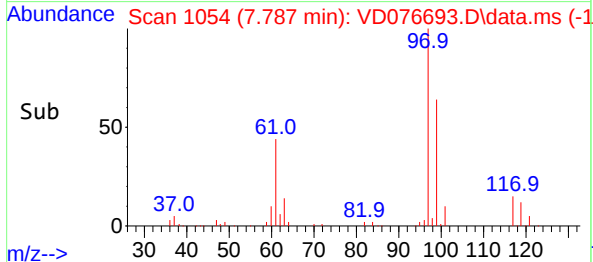
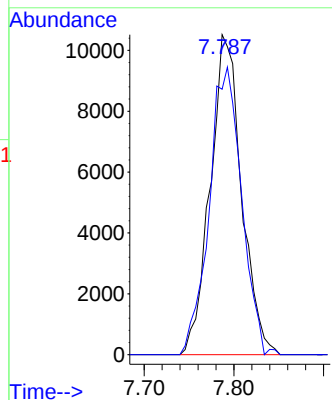
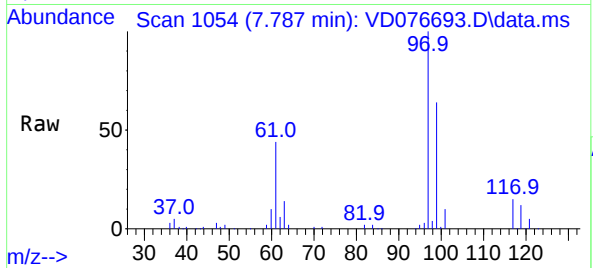




#31
Carbon tetrachloride
Concen: 7.051 ug/L
RT: 7.787 min Scan# 1054
Delta R.T. -0.200 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

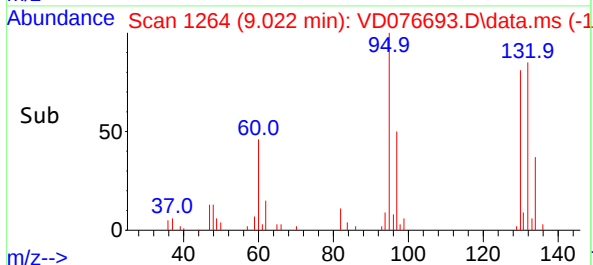
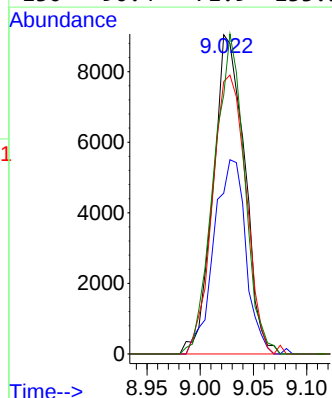
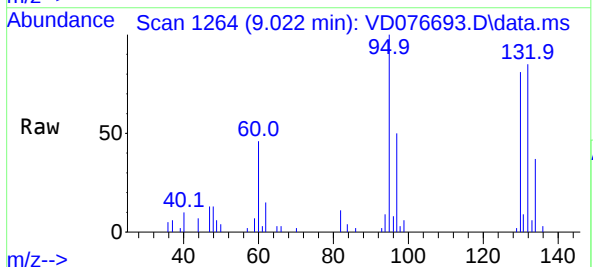
Instrument :
MSVOA_D
ClientSampleId :
A46S5RE

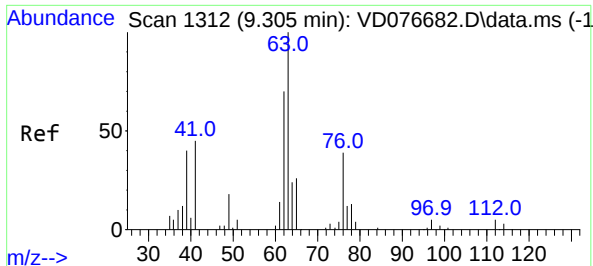
Tgt Ion:117 Resp: 25461
Ion Ratio Lower Upper
117 100
119 92.8 77.8 116.6



#34
Trichloroethene
Concen: 5.606 ug/L
RT: 9.022 min Scan# 1264
Delta R.T. -0.006 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

Tgt Ion: 95 Resp: 18523
Ion Ratio Lower Upper
95 100
97 50.4 43.1 80.1
132 85.3 71.8 133.4
130 90.4 71.9 133.5

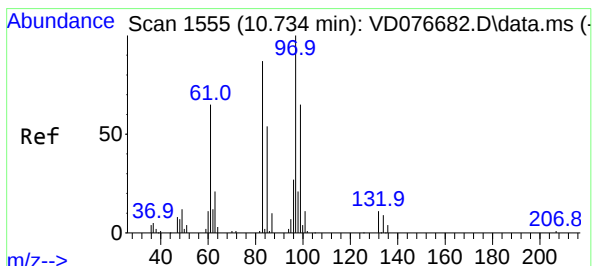
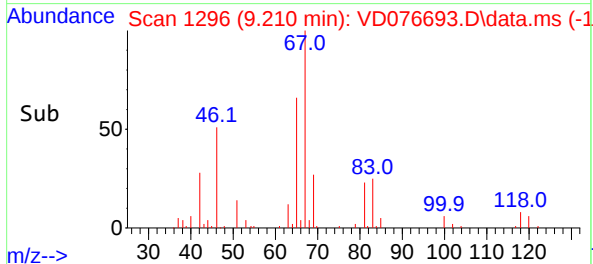
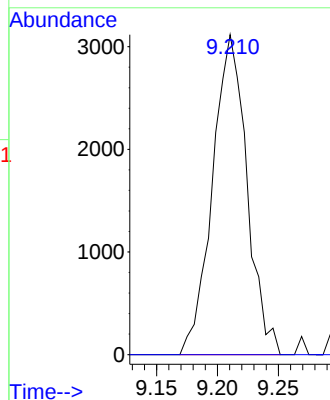
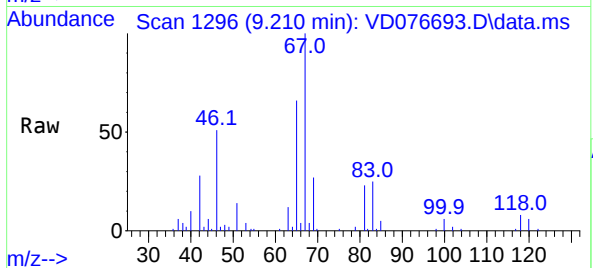




#37
1,2-Dichloropropane
Concen: 1.748 ug/L
RT: 9.210 min Scan# 11
Delta R.T. -0.094 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

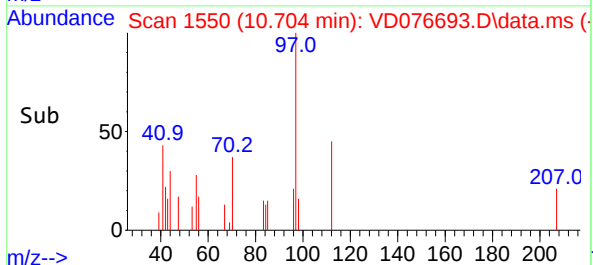
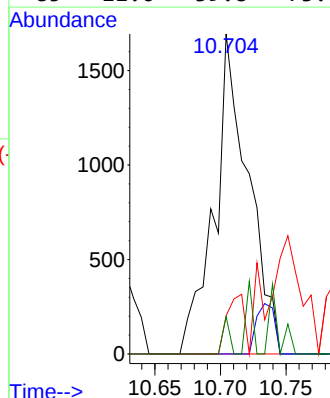
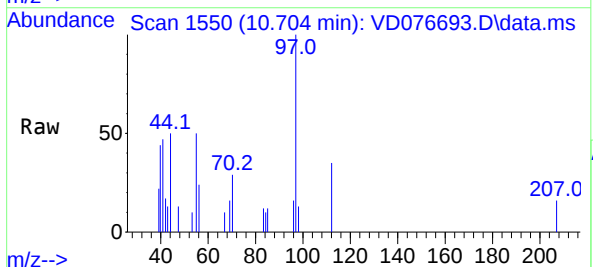
Instrument :
MSVOA_D
ClientSampleId :
A46S5RE

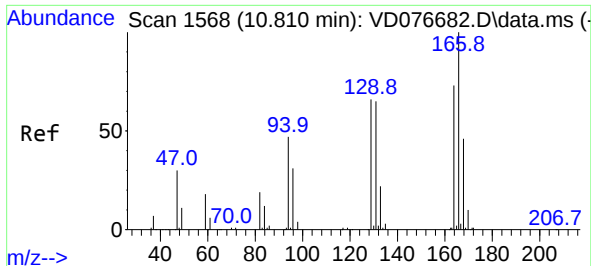
Tgt Ion: 63 Resp: 6129
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



#45
1,1,2-Trichloroethane
Concen: 1.269 ug/L
RT: 10.704 min Scan# 1550
Delta R.T. -0.030 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

Tgt Ion: 97 Resp: 3052
Ion Ratio Lower Upper
97 100
99 0.0 41.9 77.9#
83 11.9 59.2 110.0#
85 11.6 39.8 73.8#

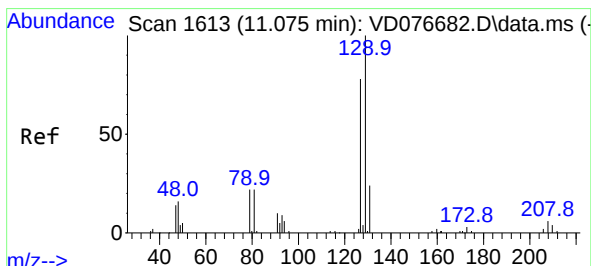
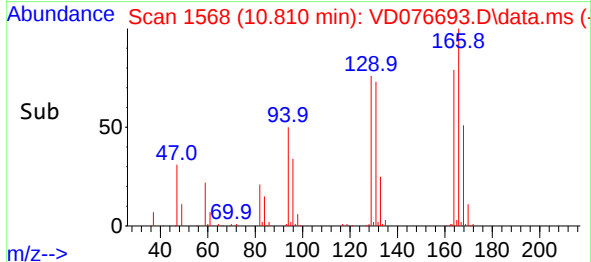
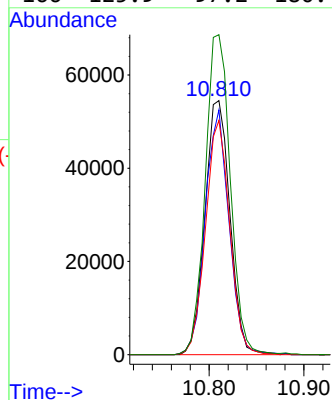
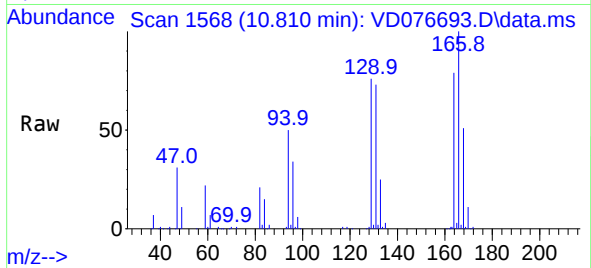




#46
Tetrachloroethene
Concen: 38.597 ug/L
RT: 10.810 min Scan# 1568
Delta R.T. -0.000 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

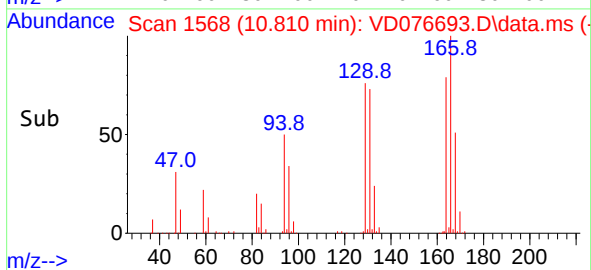
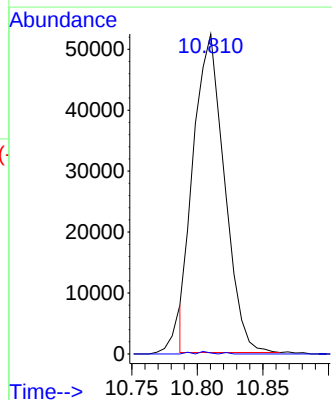
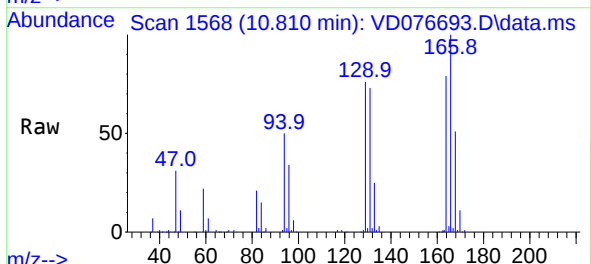
Instrument :
MSVOA_D
ClientSampleId :
A46S5RE

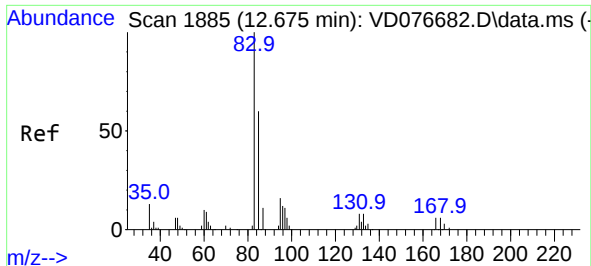
Tgt Ion:164 Resp: 100266
Ion Ratio Lower Upper
164 100
129 96.3 65.5 121.6
131 92.2 64.8 120.3
166 125.9 97.2 180.4



#49
Dibromochloromethane
Concen: 31.371 ug/L
RT: 10.810 min Scan# 1568
Delta R.T. -0.265 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

Tgt Ion:129 Resp: 85758
Ion Ratio Lower Upper
129 100
127 0.3 55.2 102.6#





#57

1,1,2-Tetrachloroethane

Concen: 0.543 ug/L

RT: 12.657 min Scan# 1882

Delta R.T. -0.018 min

Lab File: VD076693.D

Acq: 03 Jul 2023 15:35

Instrument :

MSVOA_D

ClientSampleId :

A46S5RE

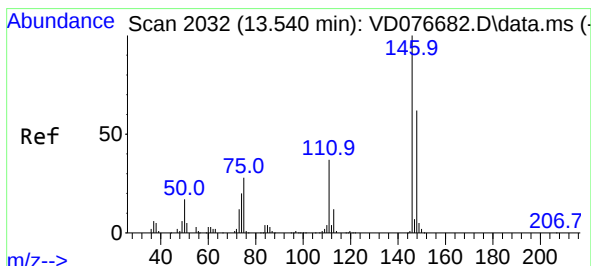
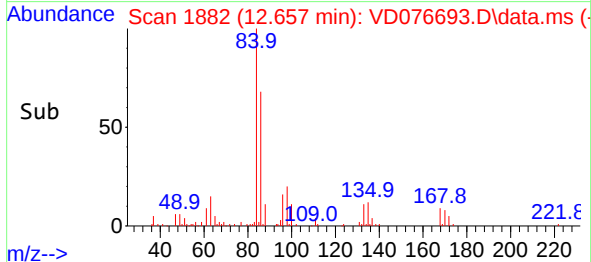
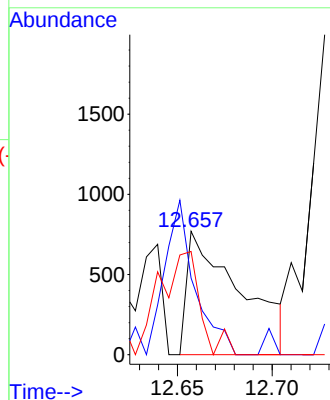
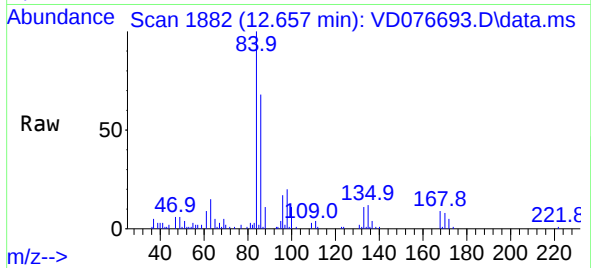
Tgt Ion: 83 Resp: 1494

Ion Ratio Lower Upper

83 100

85 62.2 46.3 86.1

131 83.7 7.0 10.4#



#65

1,4-Dichlorobenzene

Concen: 0.386 ug/L

RT: 13.534 min Scan# 2031

Delta R.T. -0.006 min

Lab File: VD076693.D

Acq: 03 Jul 2023 15:35

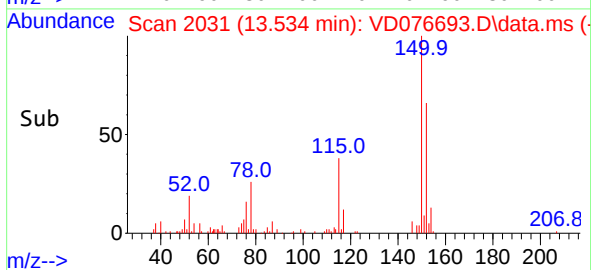
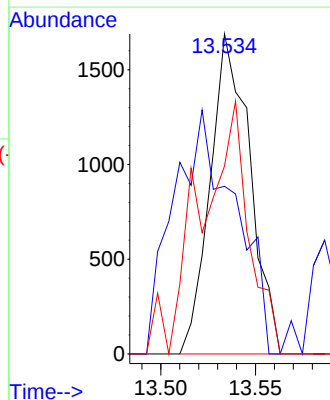
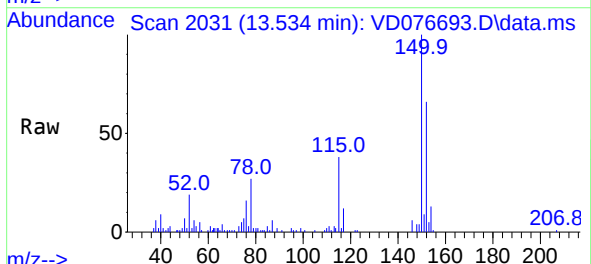
Tgt Ion:146 Resp: 2461

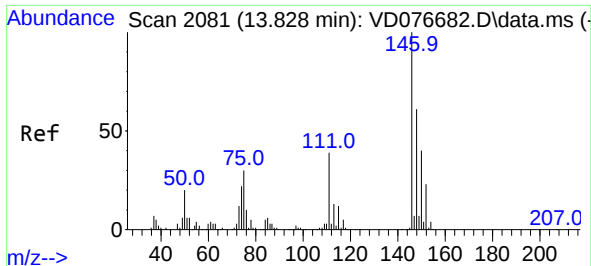
Ion Ratio Lower Upper

146 100

111 52.4 25.7 47.7#

148 58.7 45.4 84.2

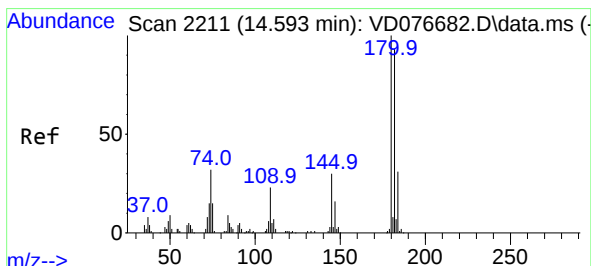
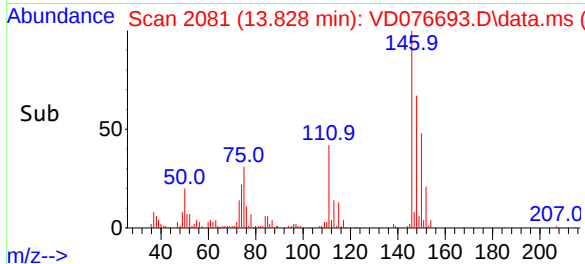
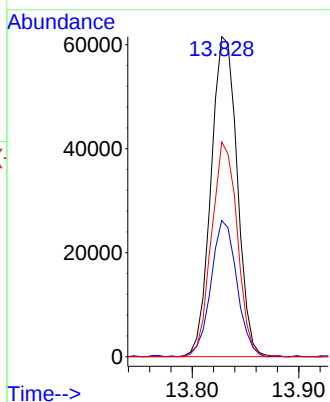
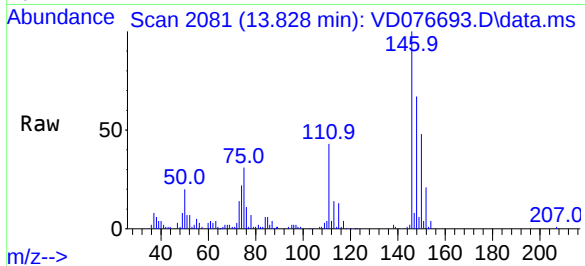




#67
1,2-Dichlorobenzene
Concen: 18.641 ug/L
RT: 13.828 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

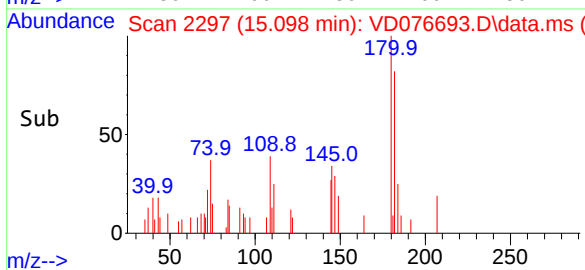
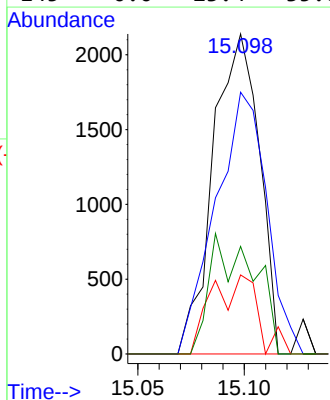
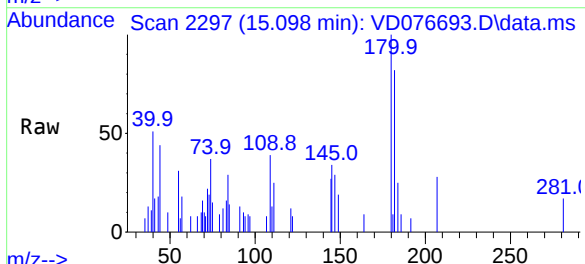
Instrument :
MSVOA_D
ClientSampleId :
A46S5RE

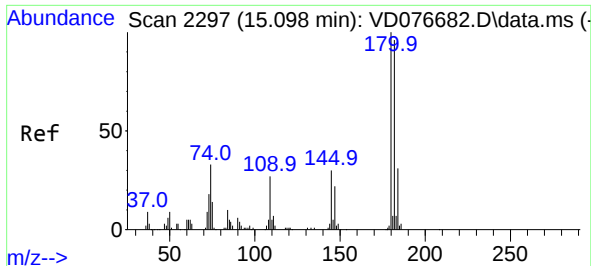
Tgt Ion:	146	Resp:	104913
Ion	Ratio	Lower	Upper
146	100		
111	42.5	31.3	46.9
148	67.1	51.7	77.5



#69
1,3,5-Trichlorobenzene
Concen: 0.763 ug/L
RT: 15.098 min Scan# 2297
Delta R.T. 0.506 min
Lab File: VD076693.D
Acq: 03 Jul 2023 15:35

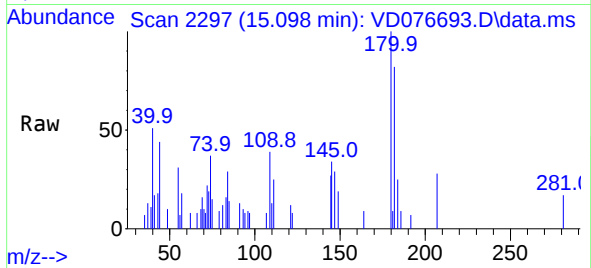
Tgt Ion:	180	Resp:	3216
Ion	Ratio	Lower	Upper
180	100		
182	90.6	77.1	115.7
184	11.0	25.0	37.4#
145	0.0	23.4	35.0#





#70
 1,2,4-trichlorobenzene
 Concen: 0.858 ug/L
 RT: 15.098 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VD076693.D
 Acq: 03 Jul 2023 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 A46S5RE



Tgt Ion:180 Resp: 3216
 Ion Ratio Lower Upper
 180 100
 182 90.6 76.9 115.3
 145 16.6 23.5 35.3#

