

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD063023\
 Data File : VD076657.D
 Acq On : 30 Jun 2023 12:49
 Operator : KP/SY
 Sample : 03472-12
 Misc : 5.20G/10.0ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 A46S4

Quant Time: Jul 03 01:30:02 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	213218	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	142717	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	44004	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.270	65	66042	12.719	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	50.880%
7) Chloroethane-d5	2.799	69	67038	15.967	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	63.880%
11) 1,1-Dichloroethene-d2	3.911	65	12579	9.281	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	37.120%#
21) 2-Butanone-d5	6.981	46	56603	71.978	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	143.960%#
24) Chloroform-d	7.563	84	116188	20.683	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	82.720%
26) 1,2-Dichloroethane-d4	8.228	65	70997	25.619	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.480%
32) Benzene-d6	8.199	84	209294	23.973	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.880%
36) 1,2-Dichloropropane-d6	9.210	67	78274	28.089	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	112.360%
41) Toluene-d8	10.269	98	166570	20.606	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	82.440%
43) trans-1,3-Dichloroprop...	10.522	79	29724	25.645	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.560%
47) 2-Hexanone-d5	10.875	63	40700	94.088	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	188.180%#
56) 1,1,2,2-Tetrachloroeth...	12.651	84	62690	31.621	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	126.480%#
66) 1,2-Dichlorobenzene-d4	13.516	152	44004	27.282	ug/L	-0.30
Spiked Amount	25.000	Range	75 - 120	Recovery	=	109.120%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.887	85	4867	1.465	ug/L	96
5) Vinyl chloride	2.281	62	382016	64.114	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	3.964	101	185578	66.409	ug/L	99
12) 1,1-Dichloroethene	3.928	96	7820	2.826	ug/L #	1
13) Acetone	4.022	43	31000	48.807	ug/L	76
14) Carbon disulfide	4.258	76	20489	2.043	ug/L	96
16) Methylene chloride	4.799	84	3459	0.933	ug/L	96
17) trans-1,2-Dichloroethene	5.311	96	11966	3.879	ug/L	82
19) 1,1-Dichloroethane	6.105	63	210762	37.367	ug/L	99
20) cis-1,2-Dichloroethene	7.081	96	647017	187.789	ug/L	96
22) 2-Butanone	7.081	43	15149	14.779	ug/L #	17
25) Chloroform	7.581	83	2634	0.479	ug/L	86
27) 1,2-Dichloroethane	8.322	62	20166	5.957	ug/L	99
29) Cyclohexane	7.958	56	5335	1.406	ug/L #	20
30) 1,1,1-Trichloroethane	7.793	97	701184	211.489	ug/L	98
31) Carbon tetrachloride	7.793	117	90751	34.226	ug/L	99
33) Benzene	8.246	78	9054	0.959	ug/L	100
34) Trichloroethene	9.028	95	115032	47.408	ug/L	96
35) Methylcyclohexane	9.275	83	8181	2.091	ug/L #	41

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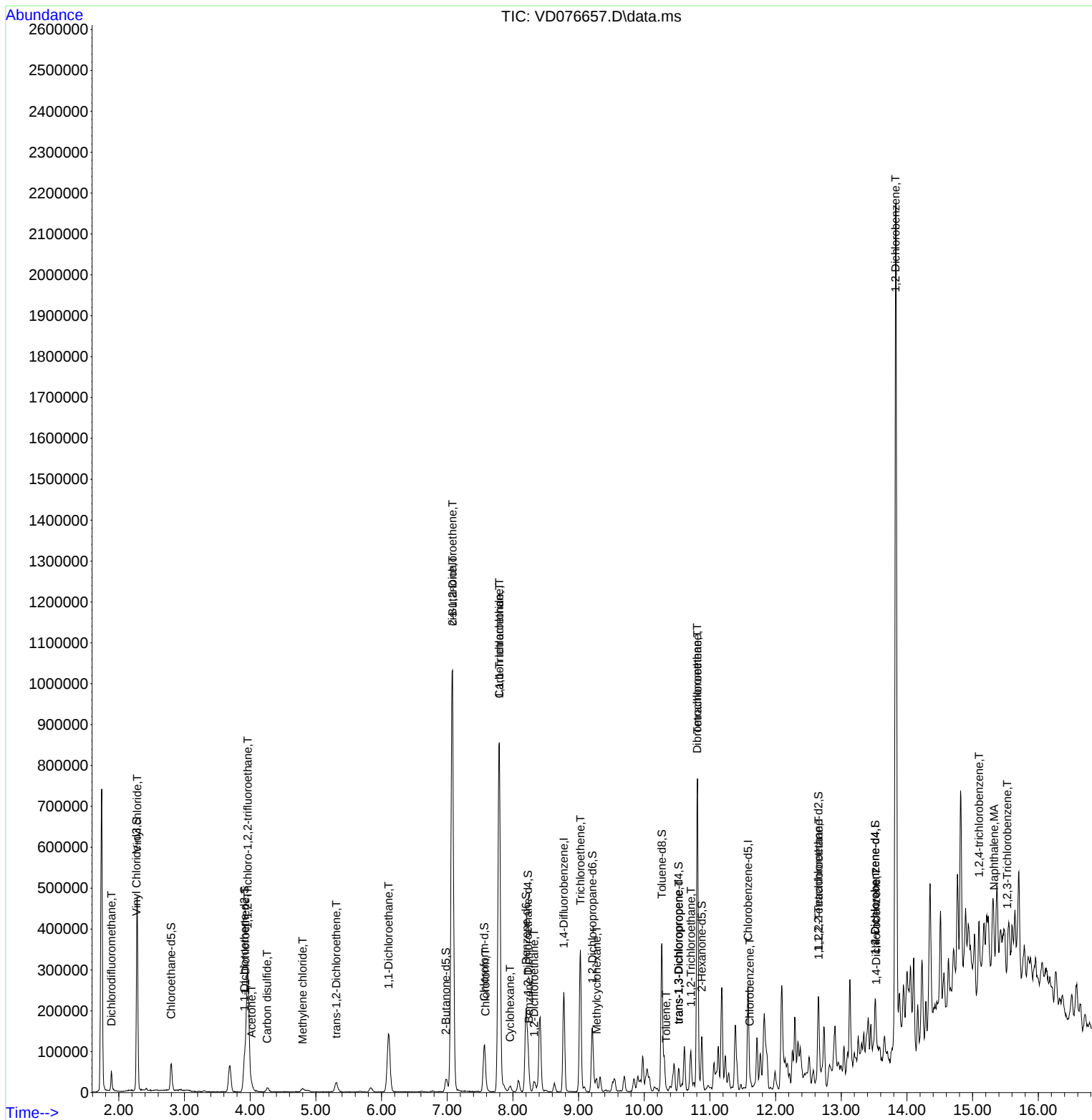
Quant Time: Jul 03 01:30:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061523SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jun 16 01:50:34 2023
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

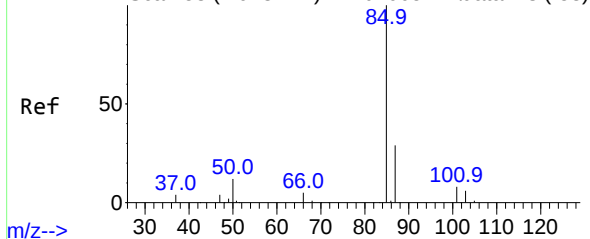
42) Toluene	10.334	91	5288	0.524	ug/L	87
44) trans-1,3-Dichloropropene	10.528	75	1587	0.497	ug/L #	54
45) 1,1,2-Trichloroethane	10.710	97	38562	21.831	ug/L #	21
46) Tetrachloroethene	10.810	164	162573	85.227	ug/L	90
49) Dibromochloromethane	10.804	129	143473	71.474	ug/L #	10
51) Chlorobenzene	11.604	112	5071	0.805	ug/L #	86
57) 1,1,2,2-Tetrachloroethane	12.657	83	1599	0.792	ug/L #	78
65) 1,4-Dichlorobenzene	13.534	146	11647	3.859	ug/L #	67
67) 1,2-Dichlorobenzene	13.828	146	743578	278.752	ug/L	97
70) 1,2,4-trichlorobenzene	15.098	180	16949	9.538	ug/L #	82
71) Naphthalene	15.328	128	2682	0.788	ug/L #	1
72) 1,2,3-Trichlorobenzene	15.528	180	898	0.582	ug/L #	14

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

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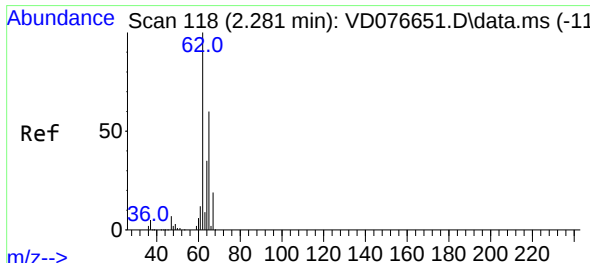
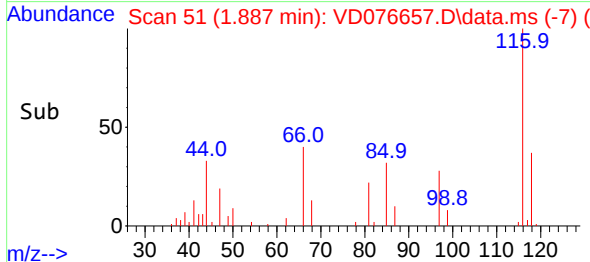
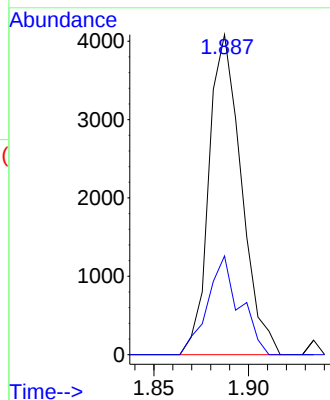
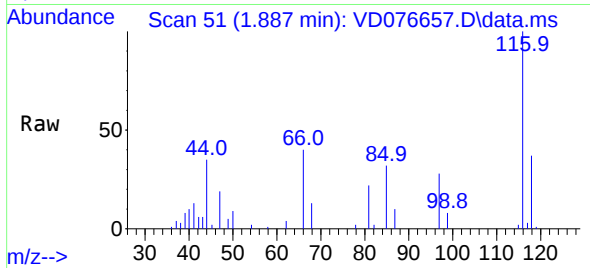
Abundance Scan 58 (1.928 min): VD076651.D\data.ms (-53)



#2
Dichlorodifluoromethane
Concen: 1.465 ug/L
RT: 1.887 min Scan# 51
Delta R.T. -0.041 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

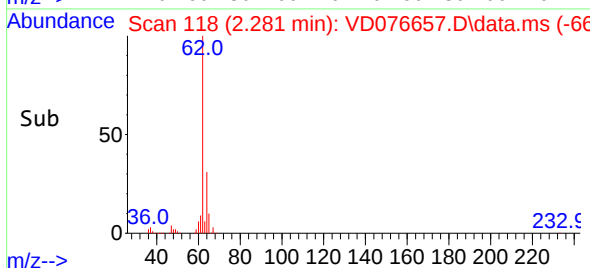
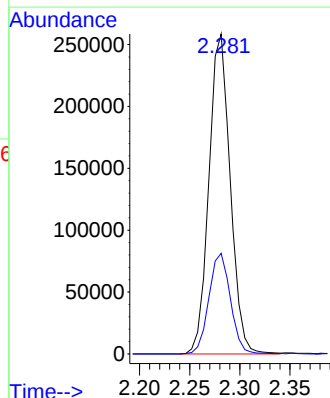
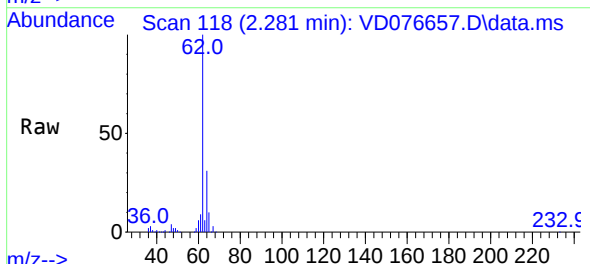
Instrument :
MSVOA_D
ClientSampleId :
A46S4

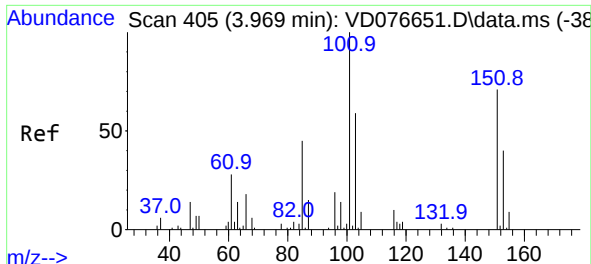
Tgt Ion: 85 Resp: 4867
Ion Ratio Lower Upper
85 100
87 30.8 26.3 39.5



#5
Vinyl chloride
Concen: 64.114 ug/L
RT: 2.281 min Scan# 118
Delta R.T. 0.006 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Tgt Ion: 62 Resp: 382016
Ion Ratio Lower Upper
62 100
64 31.5 21.1 39.1

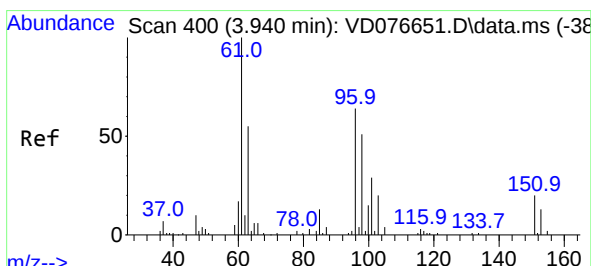
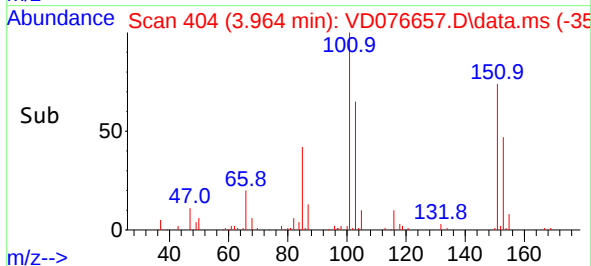
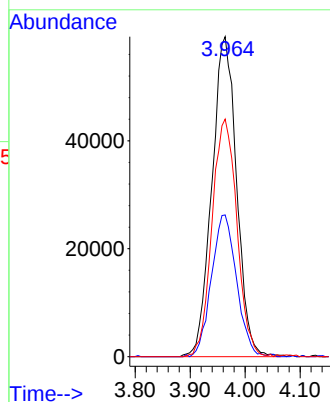
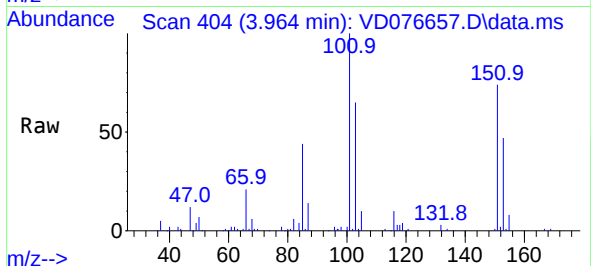




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 66.409 ug/L
RT: 3.964 min Scan# 405
Delta R.T. 0.006 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

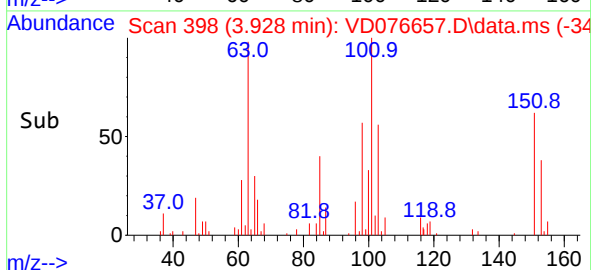
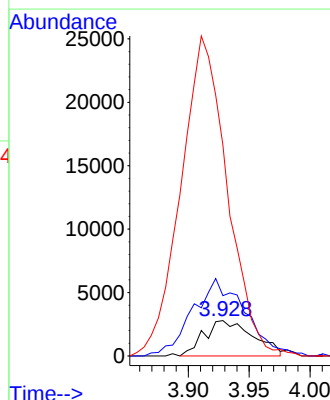
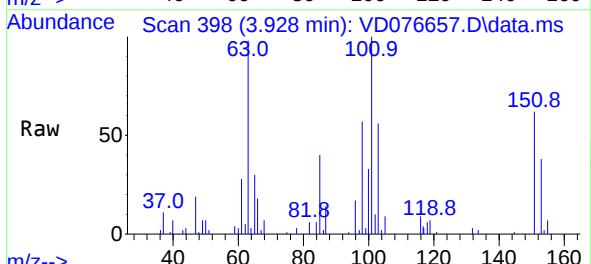
Instrument :
MSVOA_D
ClientSampleId :
A46S4

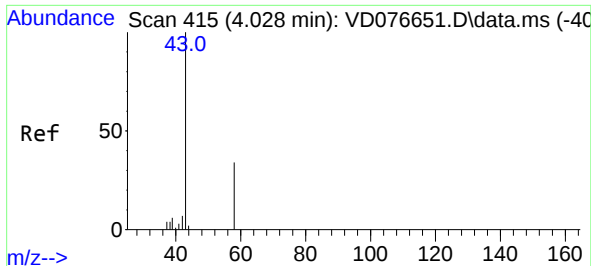
Tgt Ion:101 Resp: 185578
Ion Ratio Lower Upper
101 100
85 44.8 35.5 53.3
151 74.4 58.6 87.8



#12
1,1-Dichloroethene
Concen: 2.826 ug/L
RT: 3.928 min Scan# 398
Delta R.T. 0.000 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Tgt Ion: 96 Resp: 7820
Ion Ratio Lower Upper
96 100
61 170.2 113.0 209.8
63 595.1 83.6 155.2#





#13

Acetone

Concen: 48.807 ug/L

RT: 4.022 min Scan# 41

Delta R.T. 0.000 min

Lab File: VD076657.D

Acq: 30 Jun 2023 12:49

Instrument :

MSVOA_D

ClientSampleId :

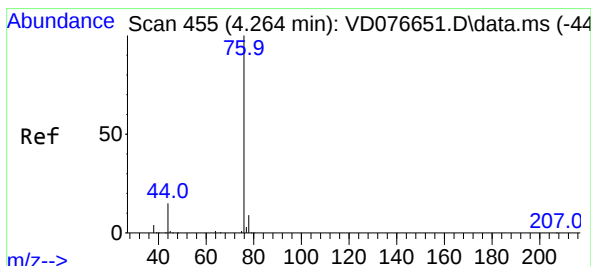
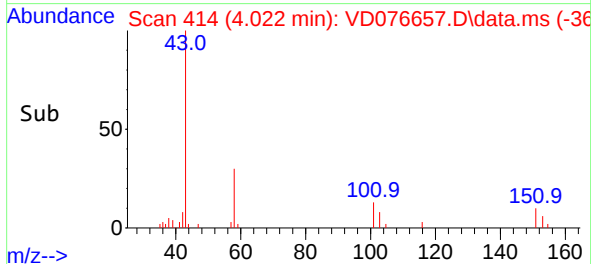
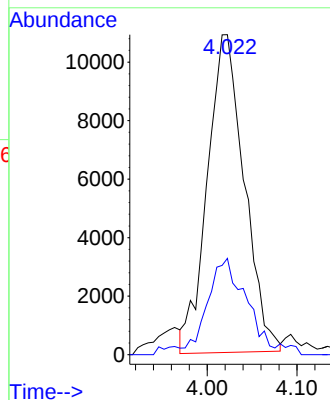
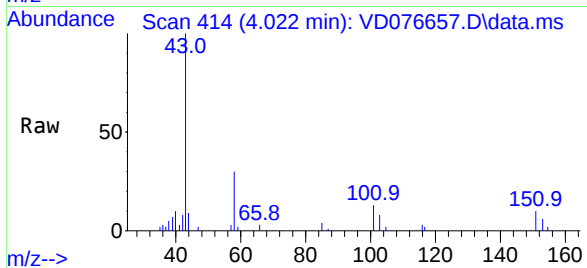
A46S4

Tgt Ion: 43 Resp: 31000

Ion Ratio Lower Upper

43 100

58 20.1 0.0 67.4



#14

Carbon disulfide

Concen: 2.043 ug/L

RT: 4.258 min Scan# 454

Delta R.T. -0.006 min

Lab File: VD076657.D

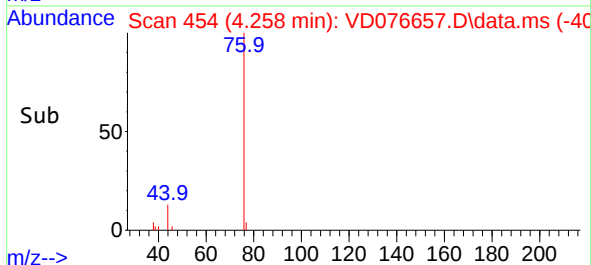
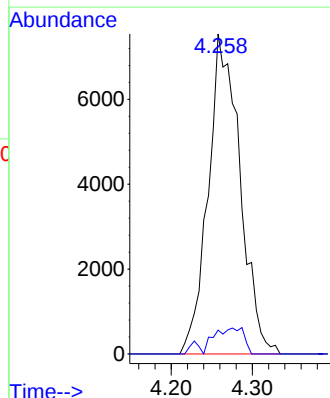
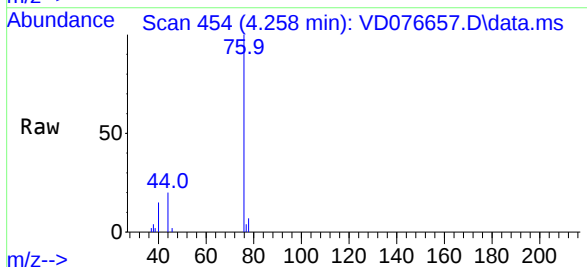
Acq: 30 Jun 2023 12:49

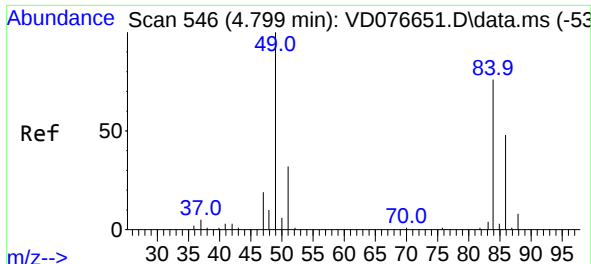
Tgt Ion: 76 Resp: 20489

Ion Ratio Lower Upper

76 100

78 7.4 7.0 10.4



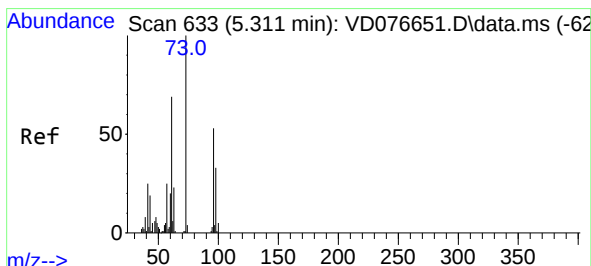
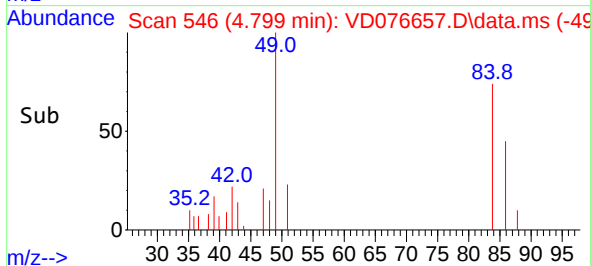
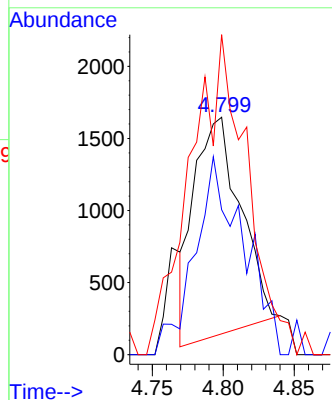
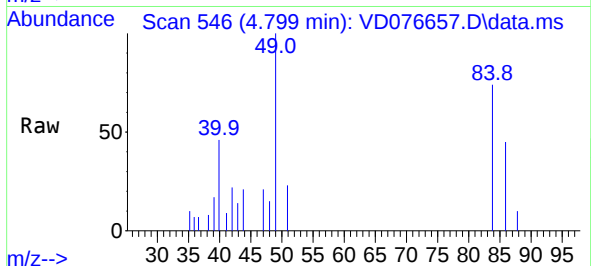


#16
Methylene chloride
Concen: 0.933 ug/L
RT: 4.799 min Scan# 546
Delta R.T. 0.012 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Instrument :
MSVOA_D
ClientSampleId :
A46S4

Tgt Ion: 84 Resp: 3459

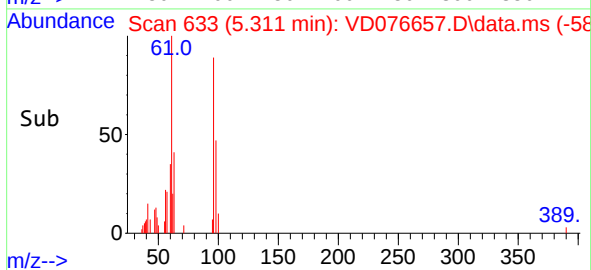
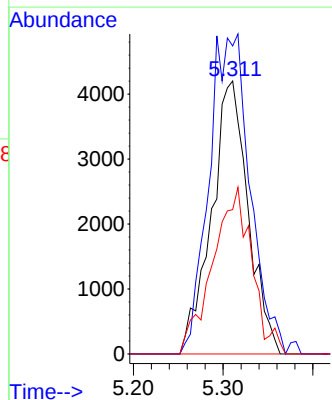
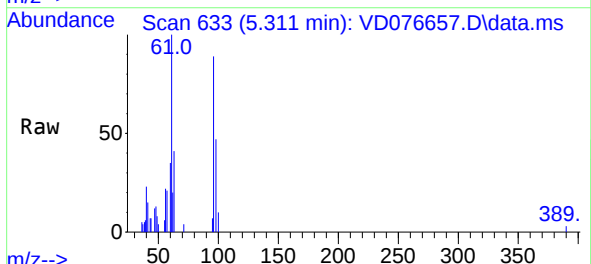
Ion	Ratio	Lower	Upper
84	100		
86	61.0	45.1	83.9
49	134.8	97.2	180.6

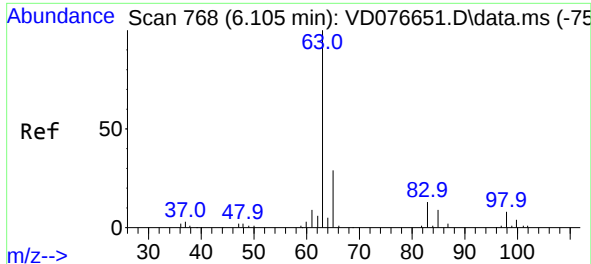


#17
trans-1,2-Dichloroethene
Concen: 3.879 ug/L
RT: 5.311 min Scan# 633
Delta R.T. 0.000 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Tgt Ion: 96 Resp: 11966

Ion	Ratio	Lower	Upper
96	100		
61	112.9	94.5	175.5
98	52.9	46.0	85.4





#19

1,1-Dichloroethane

Concen: 37.367 ug/L

RT: 6.105 min Scan# 7

Delta R.T. 0.000 min

Lab File: VD076657.D

Acq: 30 Jun 2023 12:49

Instrument :

MSVOA_D

ClientSampleId :

A46S4

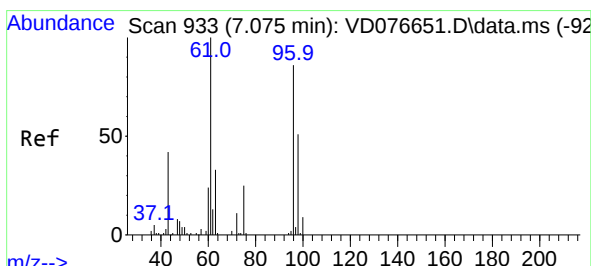
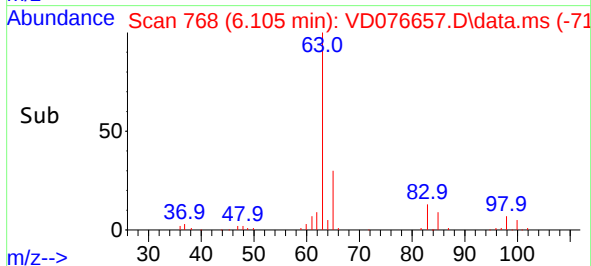
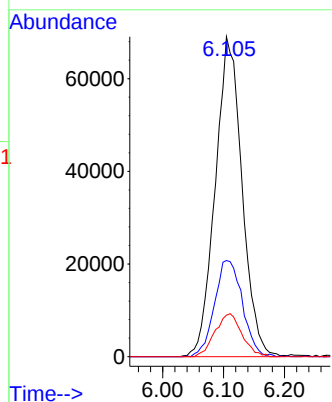
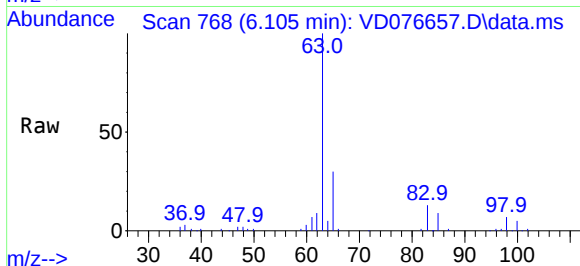
Tgt Ion: 63 Resp: 210762

Ion Ratio Lower Upper

63 100

65 30.1 20.8 38.6

83 13.0 8.9 16.5



#20

cis-1,2-Dichloroethene

Concen: 187.789 ug/L

RT: 7.081 min Scan# 934

Delta R.T. 0.006 min

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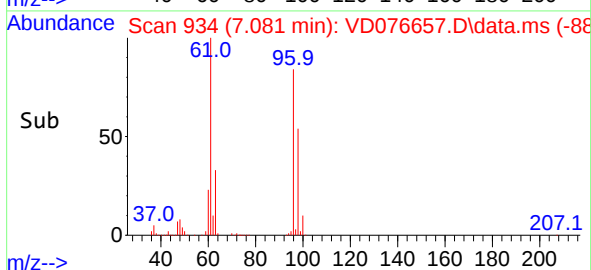
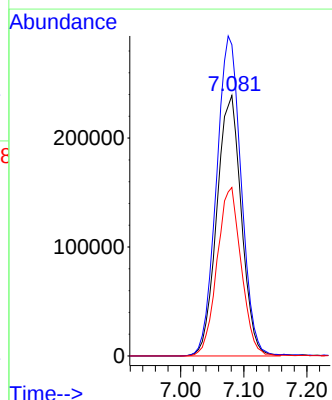
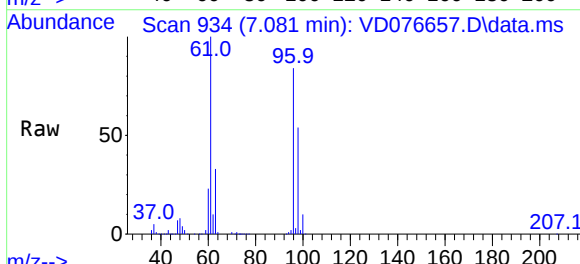
Tgt Ion: 96 Resp: 647017

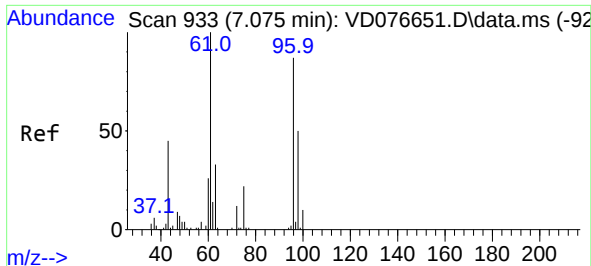
Ion Ratio Lower Upper

96 100

61 119.5 86.0 159.6

98 64.7 42.2 78.4

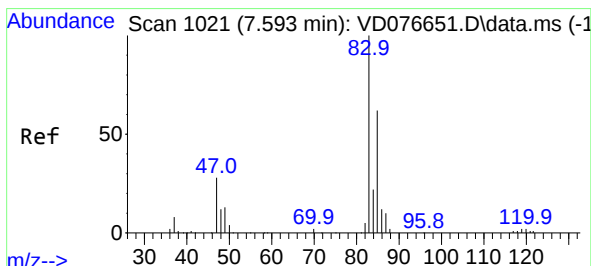
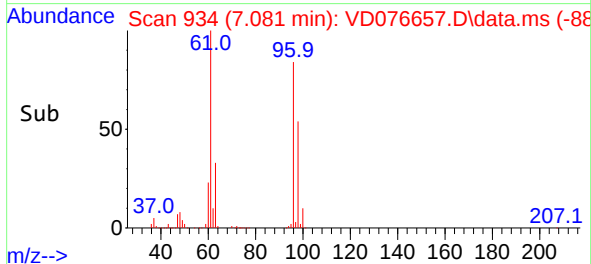
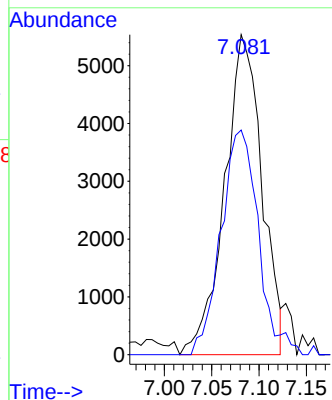
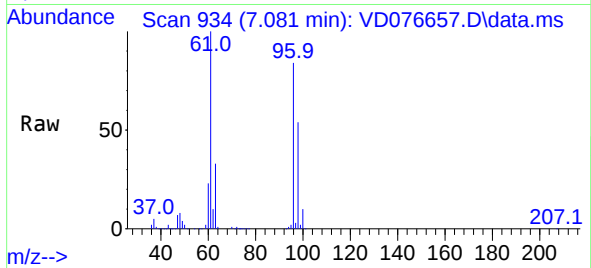




#22
2-Butanone
Concen: 14.779 ug/L
RT: 7.081 min Scan# 91
Delta R.T. 0.000 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

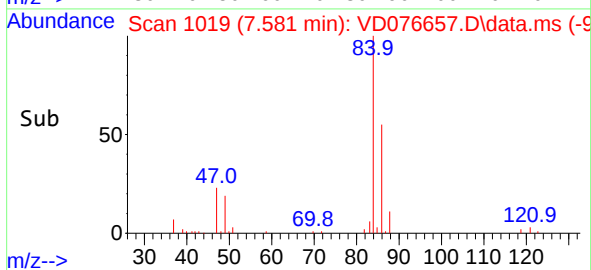
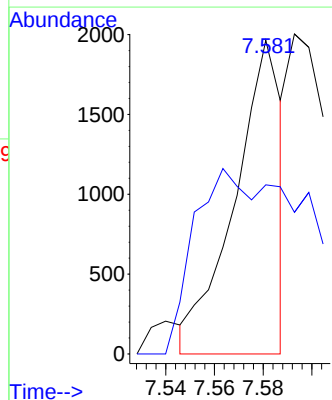
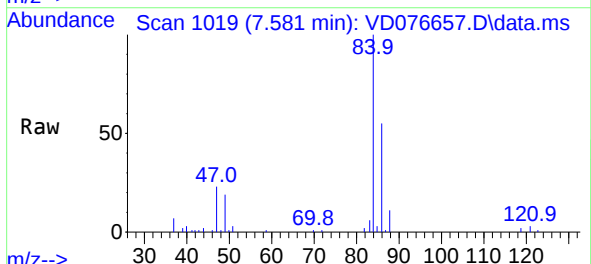
Instrument :
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A46S4

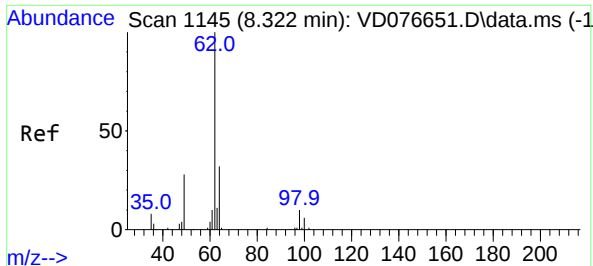
Tgt Ion: 43 Resp: 15149
Ion Ratio Lower Upper
43 100
72 67.9 12.9 38.7#



#25
Chloroform
Concen: 0.479 ug/L
RT: 7.581 min Scan# 1019
Delta R.T. -0.012 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Tgt Ion: 83 Resp: 2634
Ion Ratio Lower Upper
83 100
85 53.9 45.4 84.4

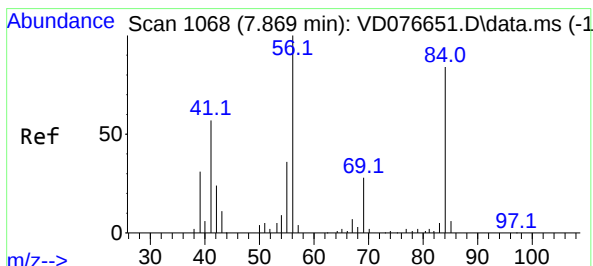
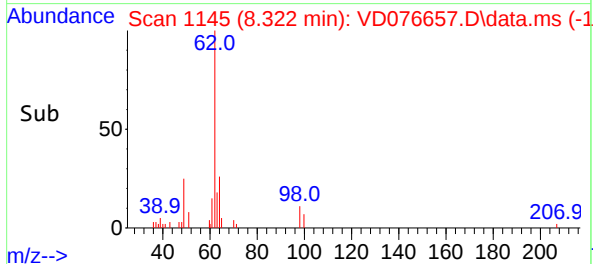
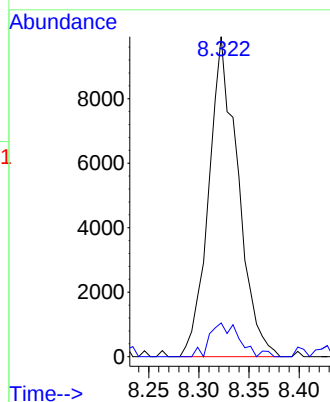
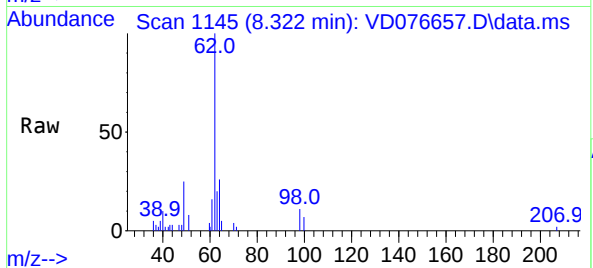




#27
1,2-Dichloroethane
Concen: 5.957 ug/L
RT: 8.322 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

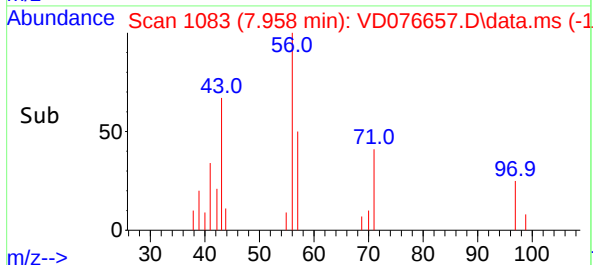
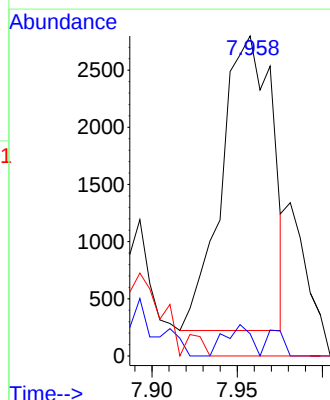
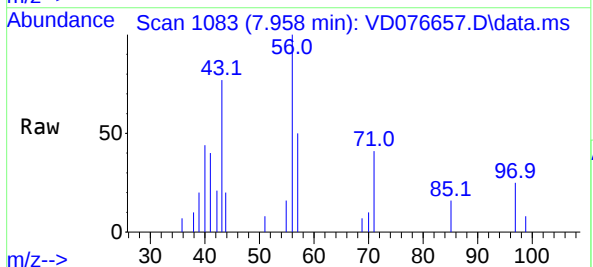
Instrument :
MSVOA_D
ClientSampleId :
A46S4

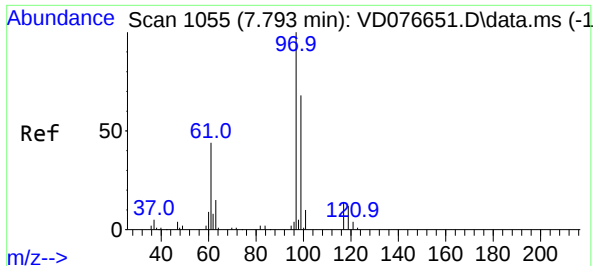
Tgt Ion: 62 Resp: 20166
Ion Ratio Lower Upper
62 100
98 10.5 8.7 13.1



#29
Cyclohexane
Concen: 1.406 ug/L
RT: 7.958 min Scan# 1083
Delta R.T. 0.082 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Tgt Ion: 56 Resp: 5335
Ion Ratio Lower Upper
56 100
69 5.4 23.4 35.0#
84 0.0 66.3 99.5#

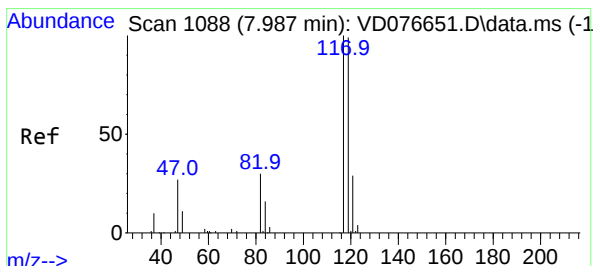
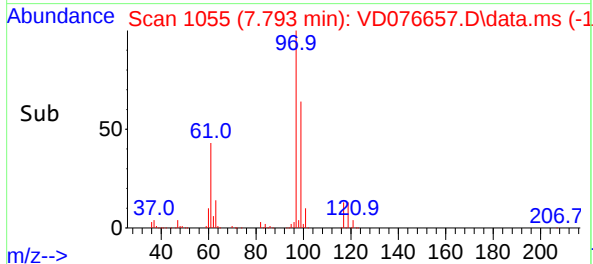
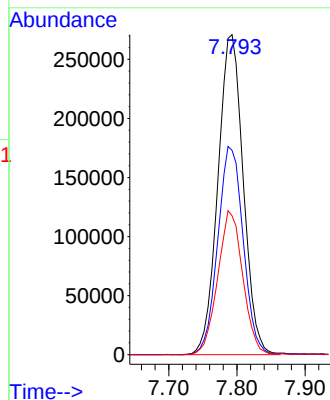
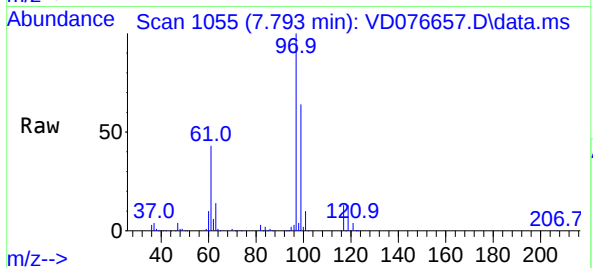




#30
1,1,1-Trichloroethane
Concen: 211.489 ug/L
RT: 7.793 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

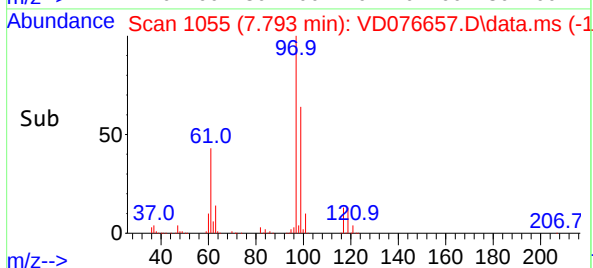
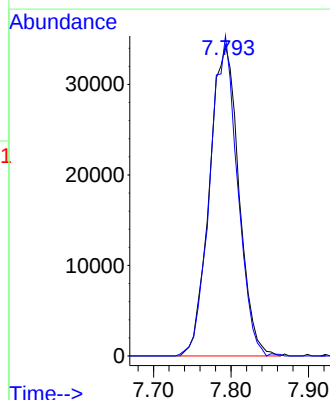
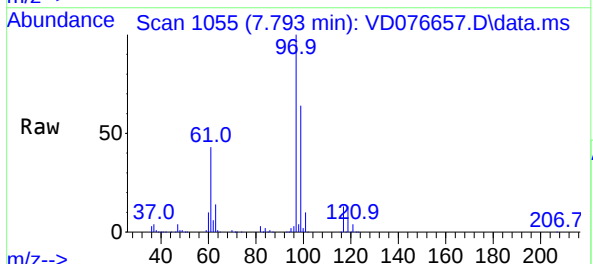
Instrument :
MSVOA_D
ClientSampleId :
A46S4

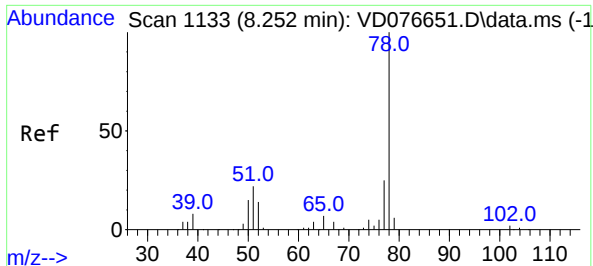
Tgt Ion:	97	Resp:	701184
Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.0	76.6
61	44.5	36.4	54.6



#31
Carbon tetrachloride
Concen: 34.226 ug/L
RT: 7.793 min Scan# 1055
Delta R.T. -0.194 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Tgt Ion:	117	Resp:	90751
Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.8	116.6

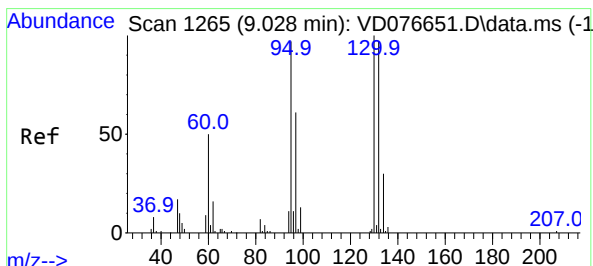
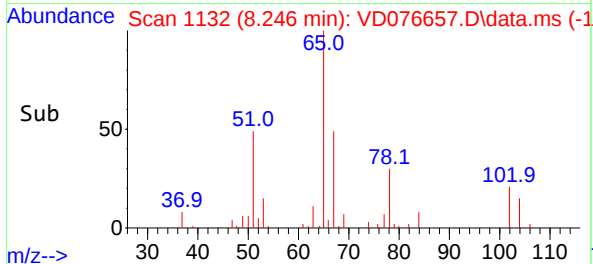
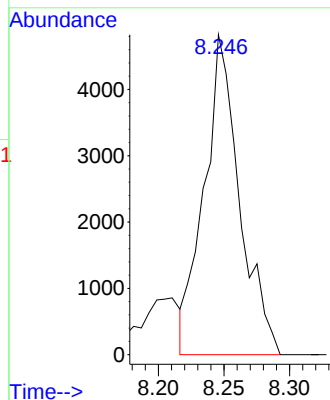
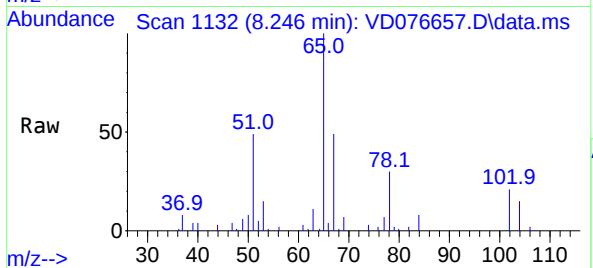




#33
Benzene
Concen: 0.959 ug/L
RT: 8.246 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Instrument :
MSVOA_D
ClientSampleId :
A46S4

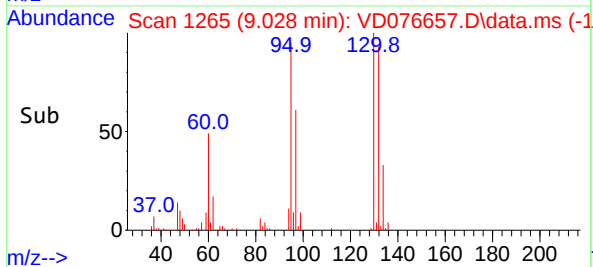
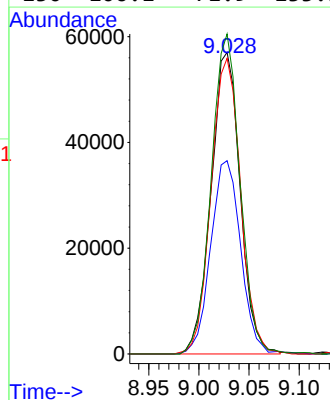
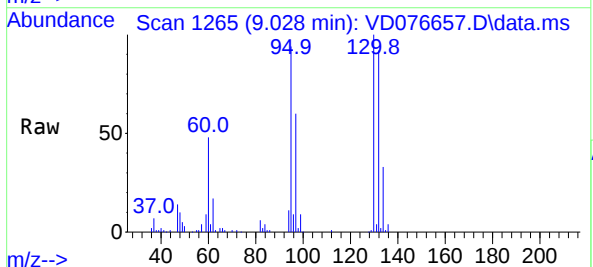
Tgt Ion: 78 Resp: 9054

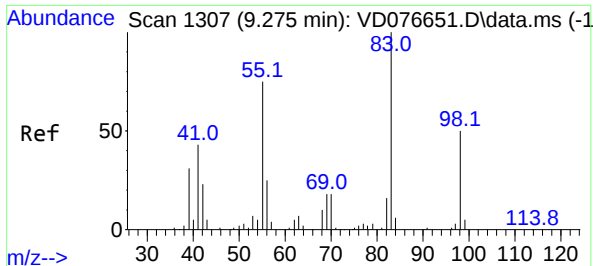


#34
Trichloroethene
Concen: 47.408 ug/L
RT: 9.028 min Scan# 1265
Delta R.T. 0.000 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Tgt Ion: 95 Resp: 115032

Ion	Ratio	Lower	Upper
95	100		
97	64.1	43.1	80.1
132	98.0	71.8	133.4
130	106.1	71.9	133.5





#35

Methylcyclohexane

Concen: 2.091 ug/L

RT: 9.275 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD076657.D

Acq: 30 Jun 2023 12:49

Instrument :

MSVOA_D

ClientSampleId :

A46S4

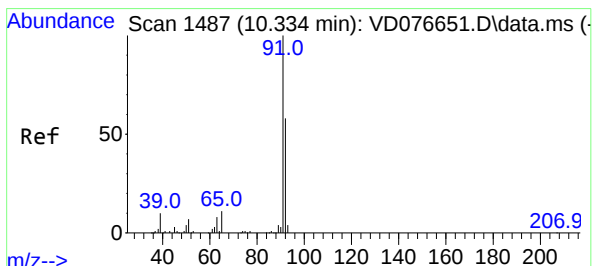
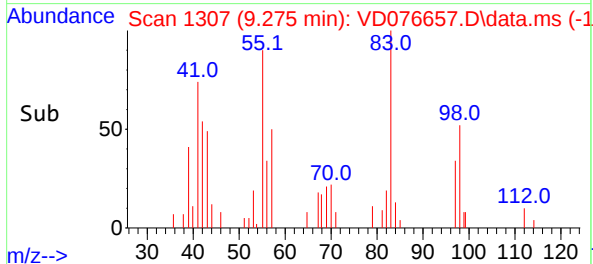
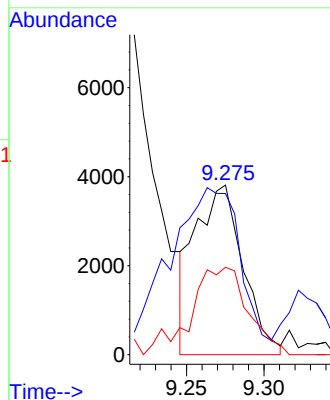
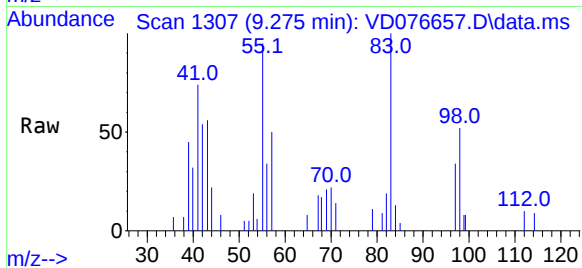
Tgt Ion: 83 Resp: 8181

Ion Ratio Lower Upper

83 100

55 148.7 59.8 89.6#

98 56.7 37.8 56.6#



#42

Toluene

Concen: 0.524 ug/L

RT: 10.334 min Scan# 1487

Delta R.T. 0.000 min

Lab File: VD076657.D

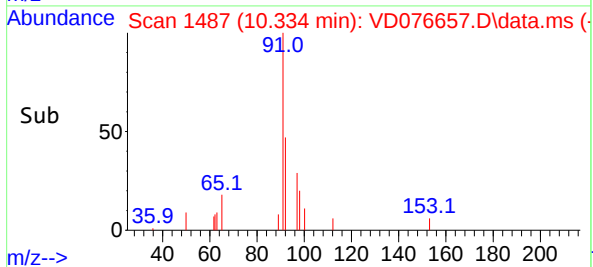
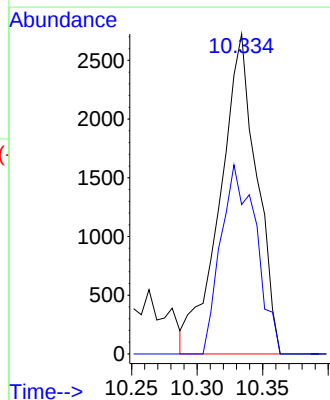
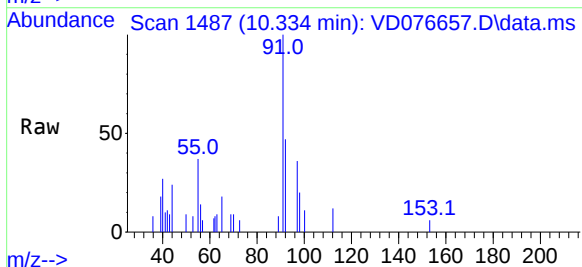
Acq: 30 Jun 2023 12:49

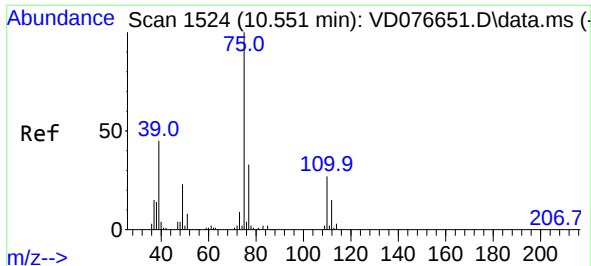
Tgt Ion: 91 Resp: 5288

Ion Ratio Lower Upper

91 100

92 46.7 39.3 73.1

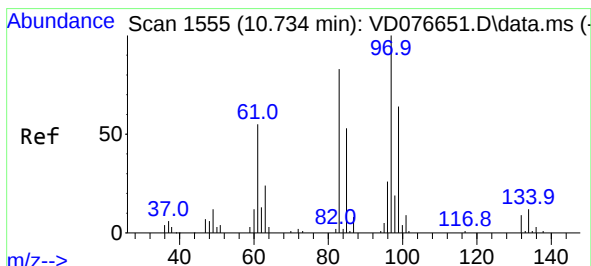
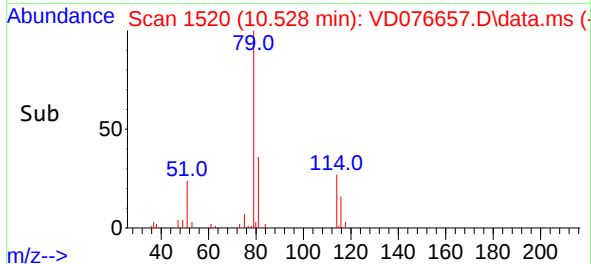
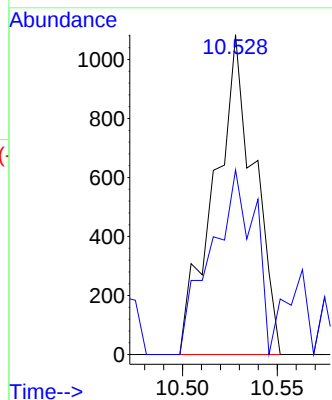
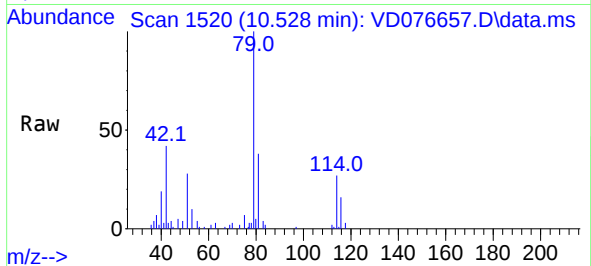




#44
trans-1,3-Dichloropropene
Concen: 0.497 ug/L
RT: 10.528 min Scan# 11
Delta R.T. -0.024 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

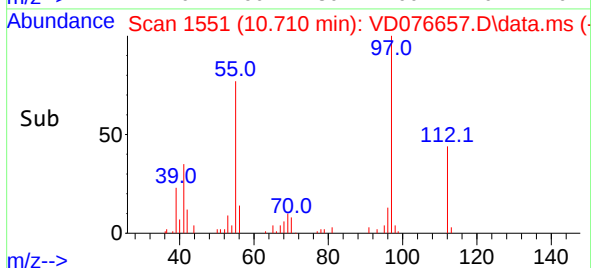
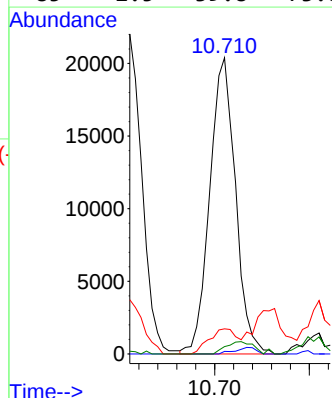
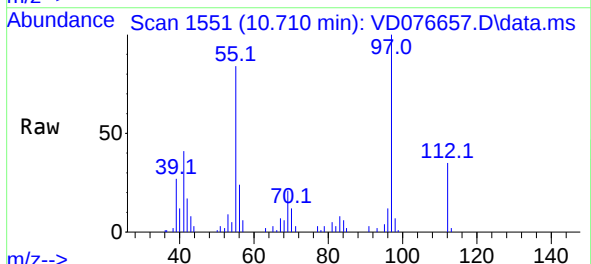
Instrument :
MSVOA_D
ClientSampleId :
A46S4

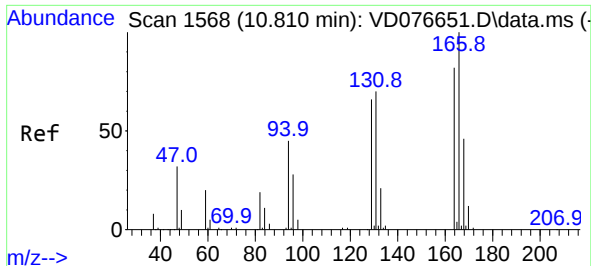
Tgt Ion: 75 Resp: 1587
Ion Ratio Lower Upper
75 100
77 57.7 22.5 41.7#



#45
1,1,2-Trichloroethane
Concen: 21.831 ug/L
RT: 10.710 min Scan# 1551
Delta R.T. -0.024 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Tgt Ion: 97 Resp: 38562
Ion Ratio Lower Upper
97 100
99 0.9 41.9 77.9#
83 8.5 59.2 110.0#
85 2.5 39.8 73.8#

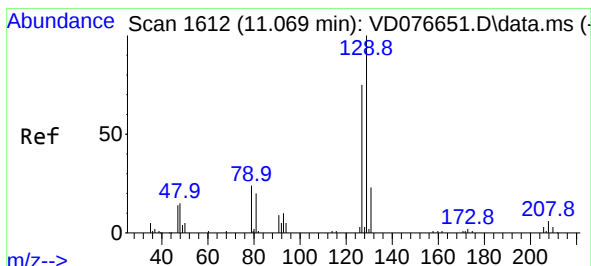
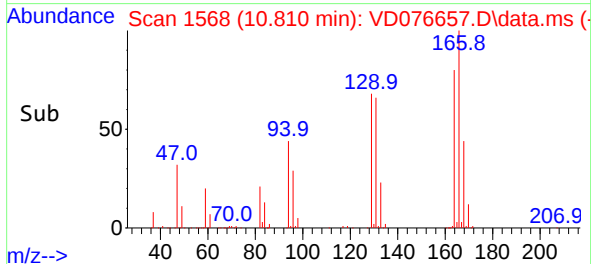
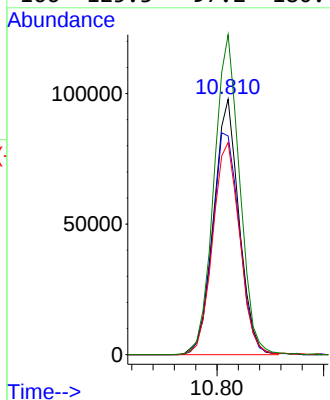
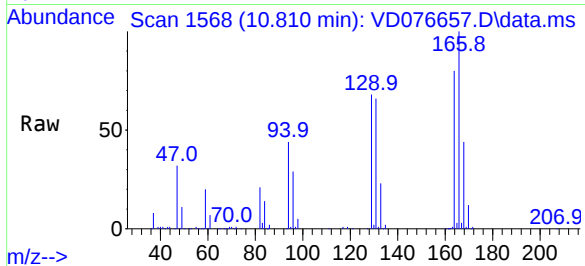




#46
Tetrachloroethene
Concen: 85.227 ug/L
RT: 10.810 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

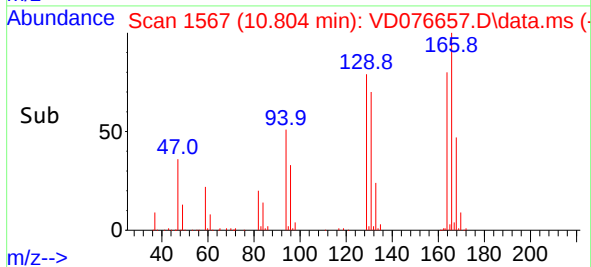
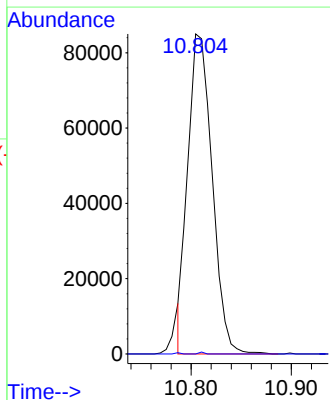
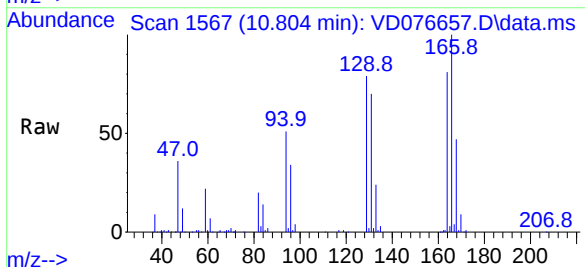
Instrument :
MSVOA_D
ClientSampleId :
A46S4

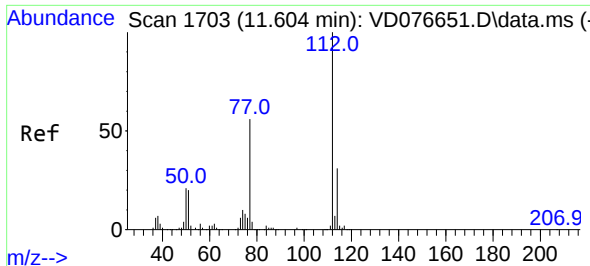
Tgt Ion:164 Resp: 162573
Ion Ratio Lower Upper
164 100
129 85.6 65.5 121.6
131 83.0 64.8 120.3
166 125.3 97.2 180.4



#49
Dibromochloromethane
Concen: 71.474 ug/L
RT: 10.804 min Scan# 1567
Delta R.T. -0.271 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Tgt Ion:129 Resp: 143473
Ion Ratio Lower Upper
129 100
127 0.0 55.2 102.6#

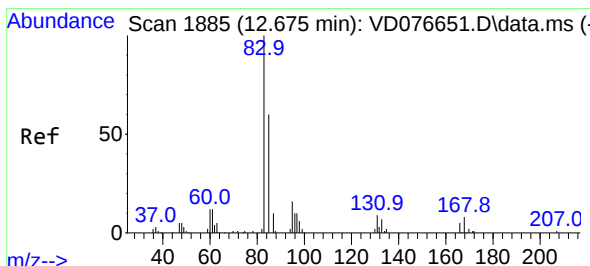
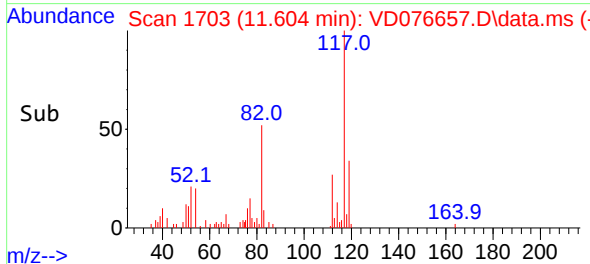
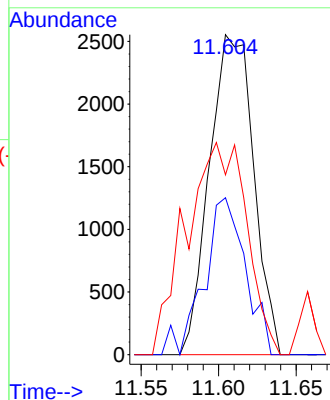
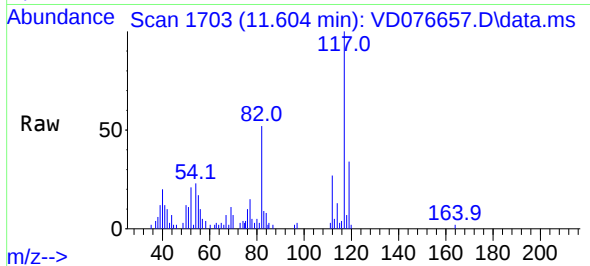




#51
Chlorobenzene
Concen: 0.805 ug/L
RT: 11.604 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

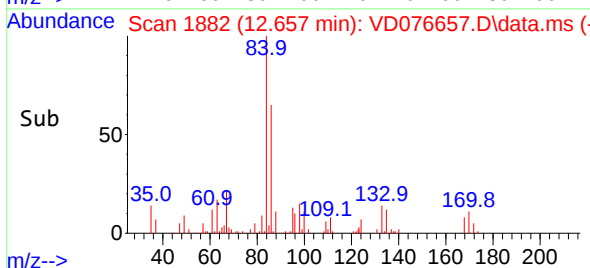
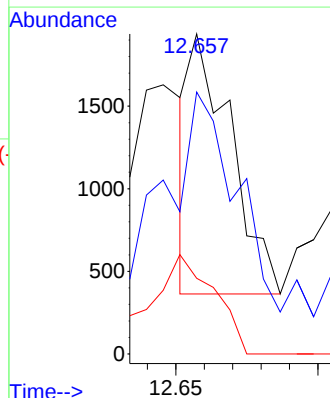
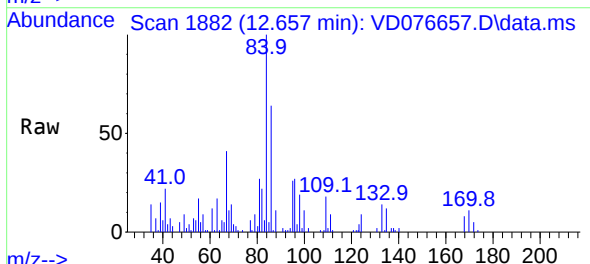
Instrument :
MSVOA_D
ClientSampleId :
A46S4

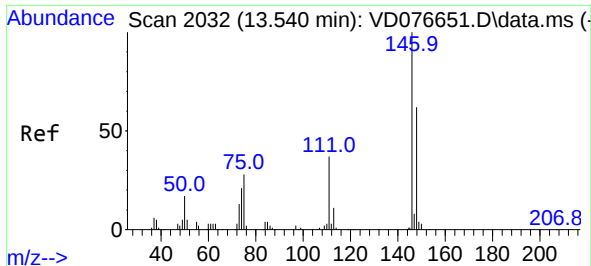
Tgt Ion:112 Resp: 5071
Ion Ratio Lower Upper
112 100
114 49.0 21.5 39.9#
77 56.2 43.4 65.2



#57
1,1,2,2-Tetrachloroethane
Concen: 0.792 ug/L
RT: 12.657 min Scan# 1882
Delta R.T. -0.018 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Tgt Ion: 83 Resp: 1599
Ion Ratio Lower Upper
83 100
85 81.8 46.3 86.1
131 23.6 7.0 10.4#

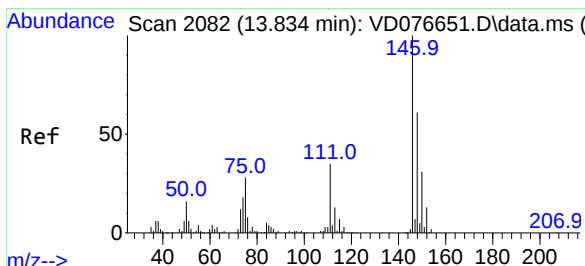
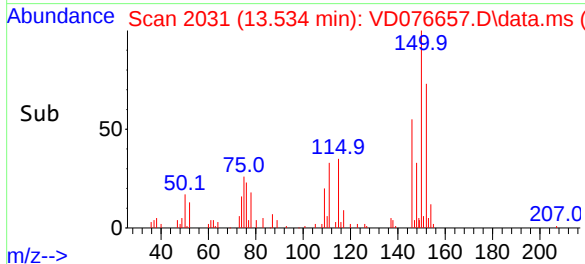
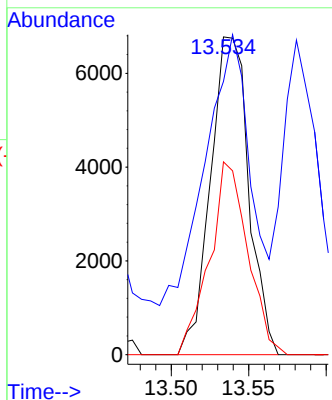
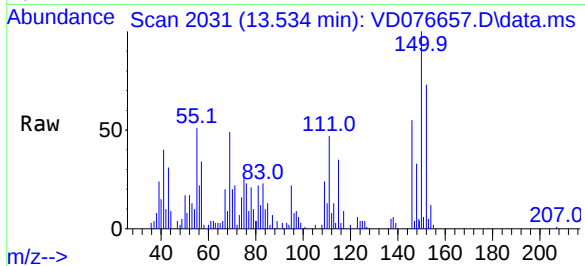




#65
1,4-Dichlorobenzene
Concen: 3.859 ug/L
RT: 13.534 min Scan# 2032
Delta R.T. -0.006 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

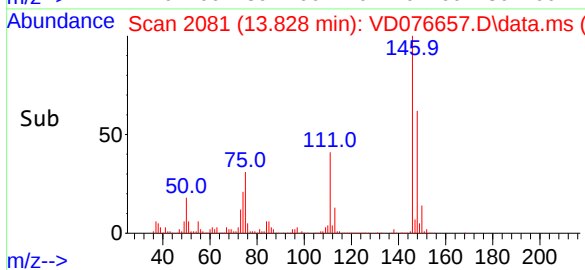
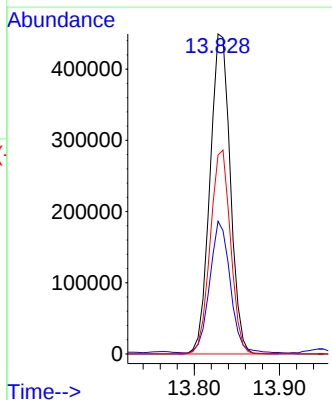
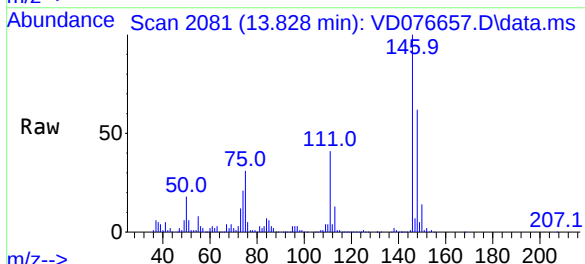
Instrument :
MSVOA_D
ClientSampleId :
A46S4

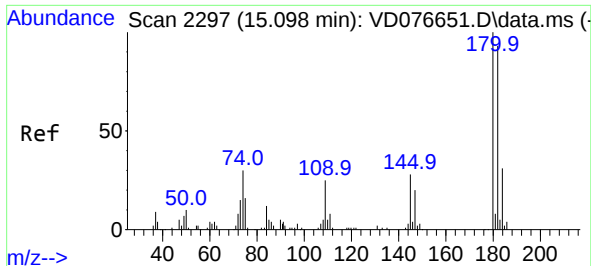
Tgt Ion:146 Resp: 11647
Ion Ratio Lower Upper
146 100
111 86.0 25.7 47.7#
148 60.6 45.4 84.2



#67
1,2-Dichlorobenzene
Concen: 278.752 ug/L
RT: 13.828 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Tgt Ion:146 Resp: 743578
Ion Ratio Lower Upper
146 100
111 41.4 31.3 46.9
148 62.2 51.7 77.5

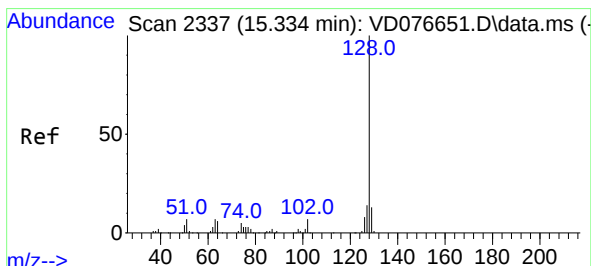
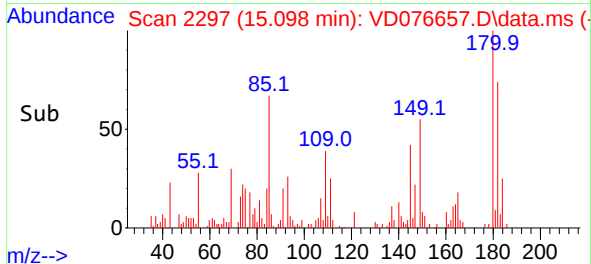
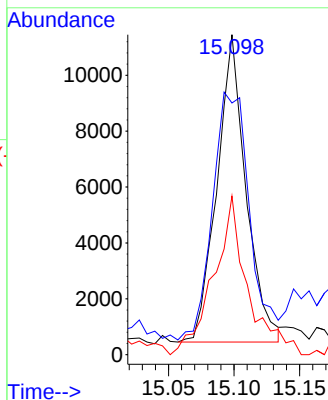
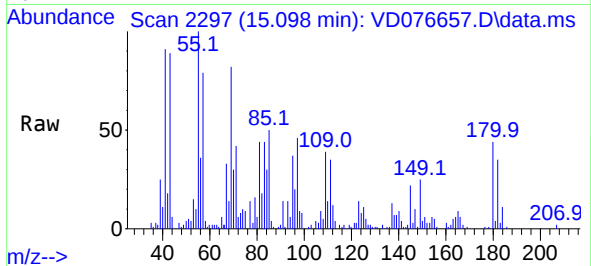




#70
1,2,4-trichlorobenzene
Concen: 9.538 ug/L
RT: 15.098 min Scan# 21
Delta R.T. 0.000 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

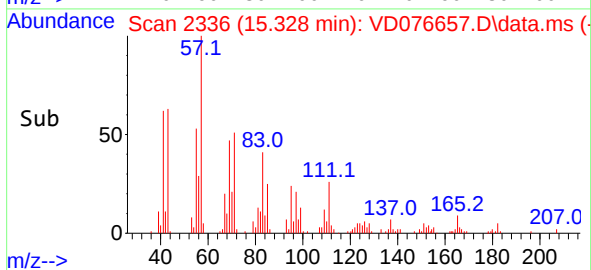
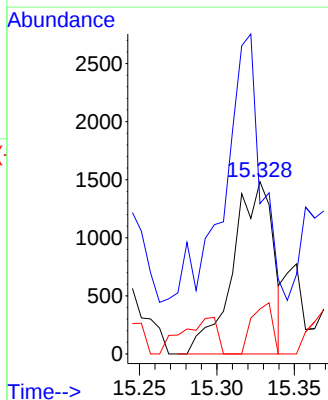
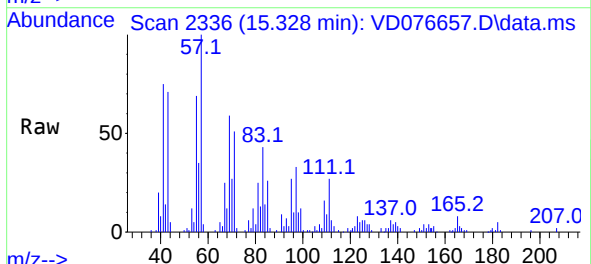
Instrument :
MSVOA_D
ClientSampleId :
A46S4

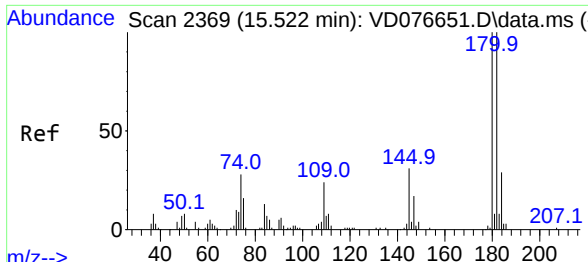
Tgt Ion:180 Resp: 16949
Ion Ratio Lower Upper
180 100
182 102.1 76.9 115.3
145 60.4 23.5 35.3#



#71
Naphthalene
Concen: 0.788 ug/L
RT: 15.328 min Scan# 2336
Delta R.T. -0.006 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

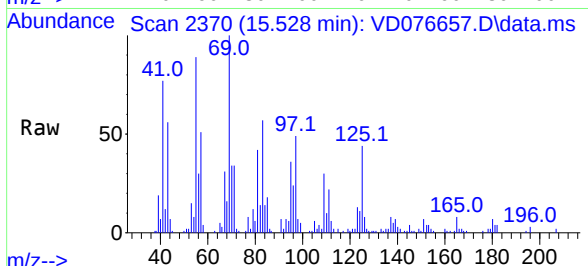
Tgt Ion:128 Resp: 2682
Ion Ratio Lower Upper
128 100
127 112.8 10.8 16.2#
129 15.0 8.6 12.8#





#72
1,2,3-Trichlorobenzene
Concen: 0.582 ug/L
RT: 15.528 min Scan# 21
Delta R.T. 0.006 min
Lab File: VD076657.D
Acq: 30 Jun 2023 12:49

Instrument :
MSVOA_D
ClientSampleId :
A46S4



Tgt Ion:	180	Resp:	898
Ion	Ratio	Lower	Upper
180	100		
182	57.8	74.3	111.5#
145	159.0	25.0	37.6#

