

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV112224\
 Data File : VV038275.D
 Acq On : 22 Nov 2024 17:30
 Operator : SY/MD
 Sample : P4884-18
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 23 00:04:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111924WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Nov 22 23:57:44 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	242497	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.779	117	265509	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	112199	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	65264	3.511	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.200%
7) Chloroethane-d5	1.529	69	66083	4.395	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.000%
11) 1,1-Dichloroethene-d2	2.053	65	32227	4.029	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.600%
20) 2-Butanone-d5	3.780	46	211051	56.761	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	113.520%
24) Chloroform-d	4.239	84	170640	4.730	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.600%
26) 1,2-Dichloroethane-d4	4.934	65	85296	5.270	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.400%
32) Benzene-d6	4.953	84	293024	4.270	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.400%
36) 1,2-Dichloropropane-d6	5.982	67	102218	4.841	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.800%
41) Toluene-d8	7.236	98	225410	3.550	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.000%
43) trans-1,3-Dichloroprop...	7.558	79	30973	3.945	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.000%
46) 2-Hexanone-d5	8.017	63	192407	63.049	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	126.100%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	85914	4.793	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.800%
66) 1,2-Dichlorobenzene-d4	11.554	152	94965	4.968	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.105	85	101874	4.440	ug/L	98
5) Vinyl chloride	1.278	62	10939	0.489	ug/L	90
10) 1,1,2-Trichloro-1,2,2-...	2.063	101	11062	0.608	ug/L	91
12) 1,1-Dichloroethene	2.063	96	183144	10.574	ug/L #	78
16) Methylene chloride	2.442	84	38290	1.939	ug/L	98
17) Methyl tert-butyl Ether	2.706	73	4154	0.106	ug/L #	88
18) trans-1,2-Dichloroethene	2.696	96	3457	0.189	ug/L	91
19) 1,1-Dichloroethane	3.104	63	44582	1.346	ug/L	96
22) cis-1,2-Dichloroethene	3.802	96	275795	14.618	ug/L	97
25) Chloroform	4.265	83	22363	0.631	ug/L	97
27) 1,2-Dichloroethane	5.063	62	7642	0.396	ug/L #	94
29) 1,1,1-Trichloroethane	4.503	97	169651	5.328	ug/L	98
31) Carbon tetrachloride	4.725	117	3270	0.116	ug/L	94
33) Benzene	5.014	78	10479	0.141	ug/L	100
34) Trichloroethene	5.818	95	4815843	236.877	ug/L	99
35) Methylcyclohexane	5.982	83	24861	0.864	ug/L #	19
37) 1,2-Dichloropropane	6.101	63	4534	0.243	ug/L #	96
42) Toluene	7.320	91	39808	0.504	ug/L	99
45) 1,1,2-Trichloroethane	7.780	97	5522	0.364	ug/L	96

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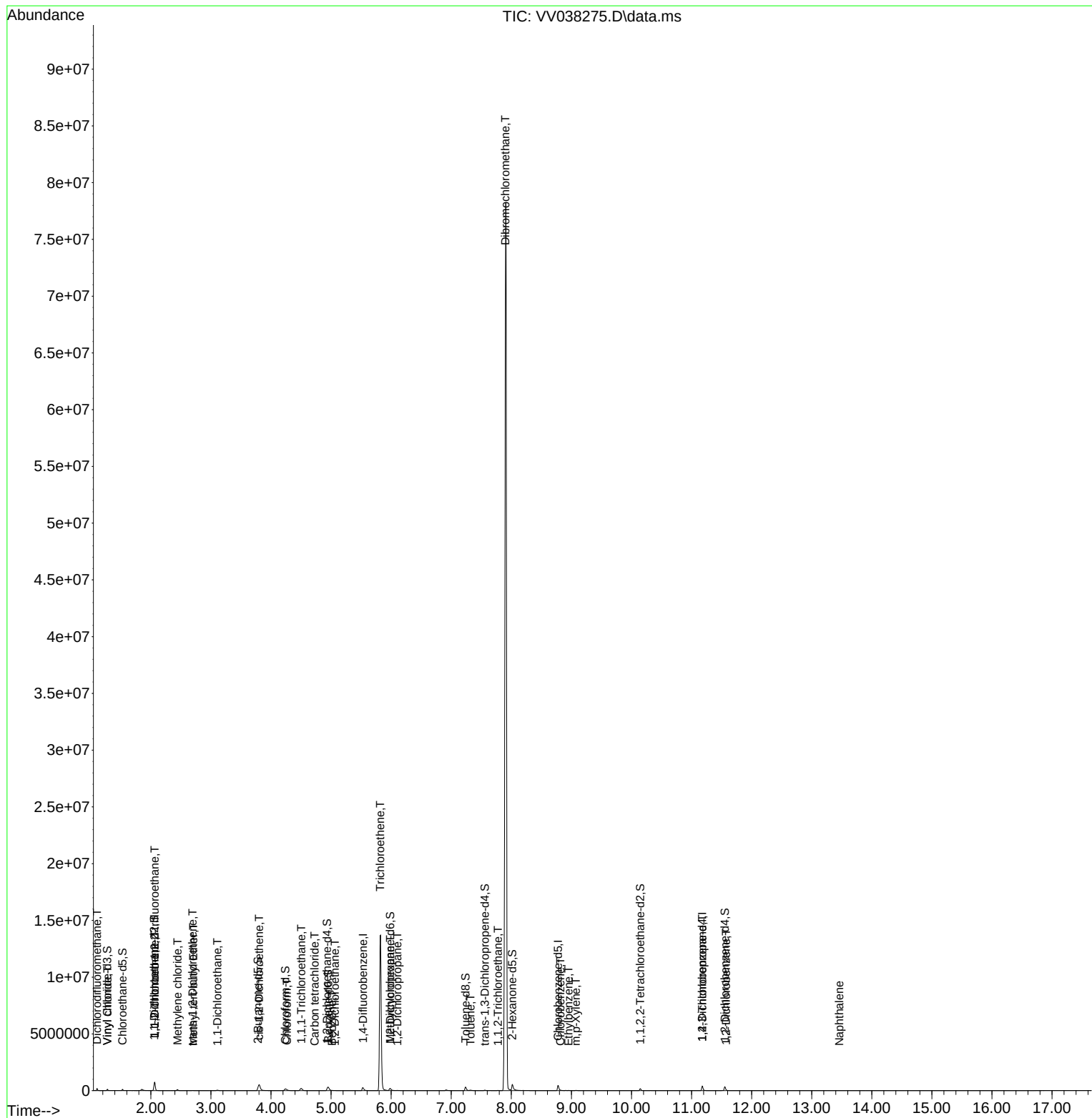
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	7.902	129	17400574	1053.452	ug/L #	11
51) Chlorobenzene	8.815	112	18656	0.343	ug/L	95
52) Ethylbenzene	8.953	91	12332	0.147	ug/L	92
53) m,p-Xylene	9.075	106	7650	0.242	ug/L	95
61) 1,2,3-Trichloropropane	11.178	75	13170	1.371	ug/L #	65
67) 1,2-Dichlorobenzene	11.574	146	7239	0.225	ug/L	93
71) Naphthalene	13.461	128	3941	0.125	ug/L #	89

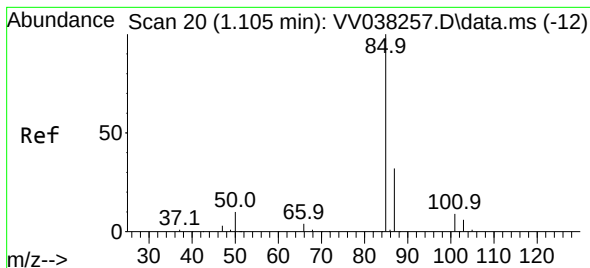
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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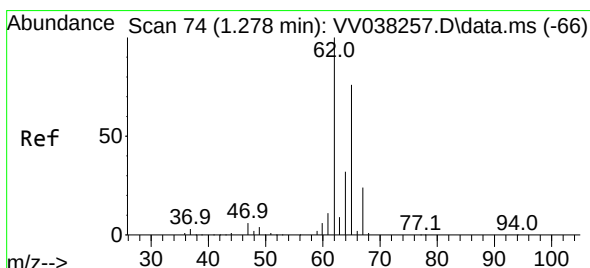
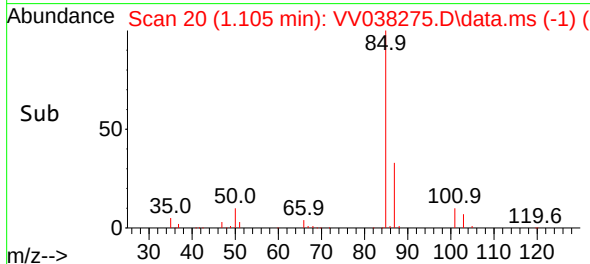
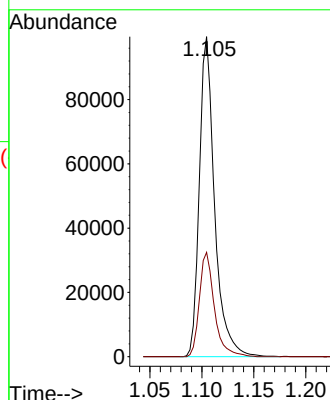
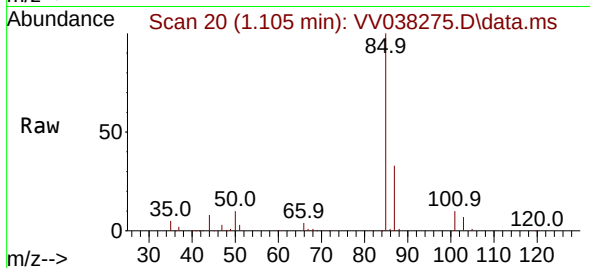




#2
Dichlorodifluoromethane
Concen: 4.440 ug/L
RT: 1.105 min Scan# 20
Delta R.T. -0.000 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

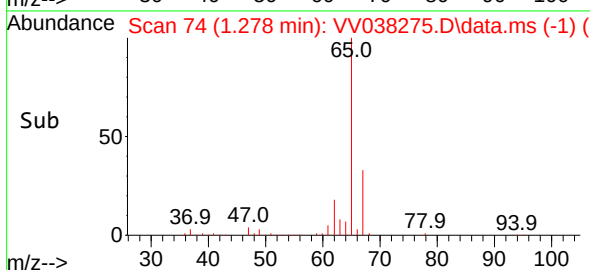
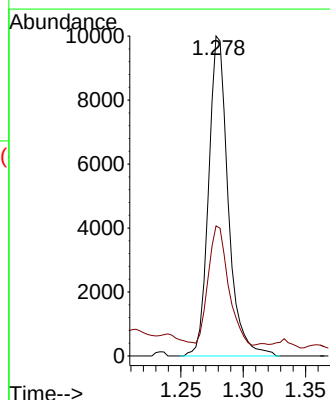
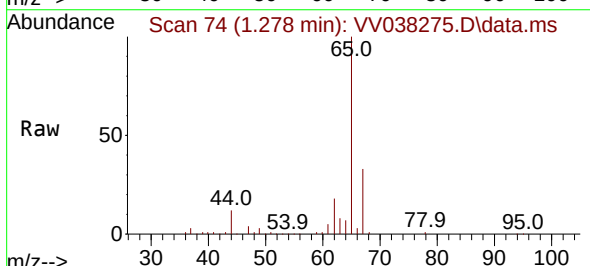
Instrument :
MSVOA_V
ClientSampleId :

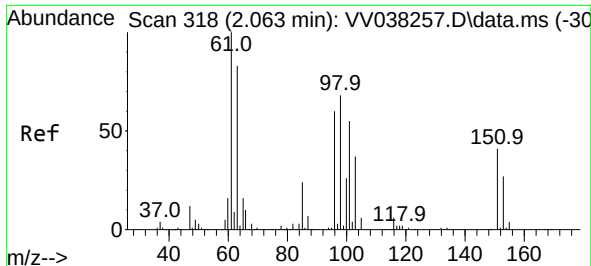
Tgt Ion: 85 Resp: 101874
Ion Ratio Lower Upper
85 100
87 32.0 26.5 39.7



#5
Vinyl chloride
Concen: 0.489 ug/L
RT: 1.278 min Scan# 74
Delta R.T. -0.000 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

Tgt Ion: 62 Resp: 10939
Ion Ratio Lower Upper
62 100
64 40.7 24.4 45.4

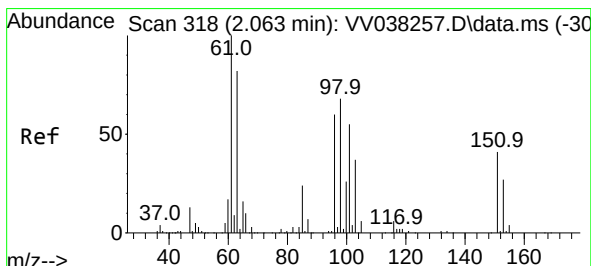
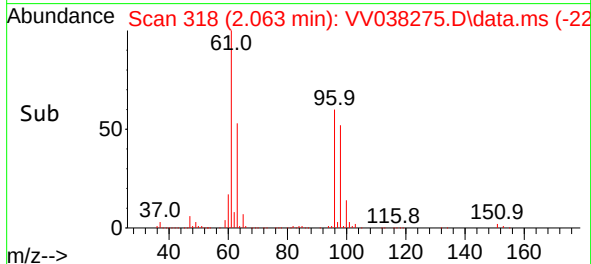
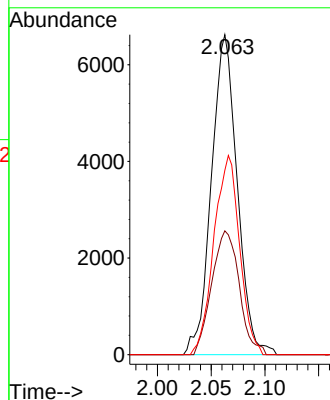
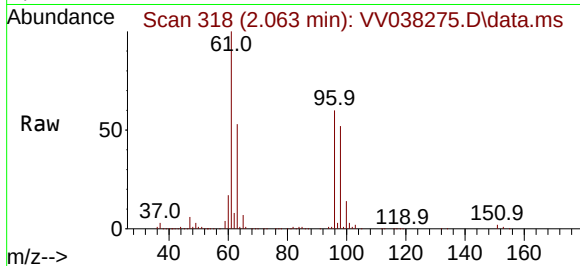




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.608 ug/L
 RT: 2.063 min Scan# 318
 Delta R.T. -0.000 min
 Lab File: VV038275.D
 Acq: 22 Nov 2024 17:30

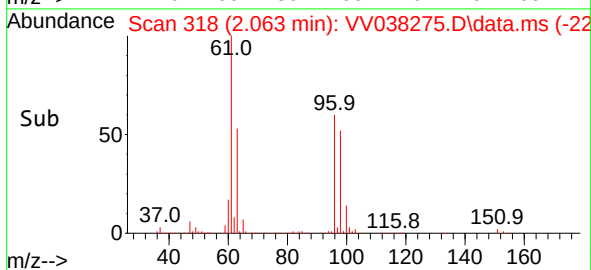
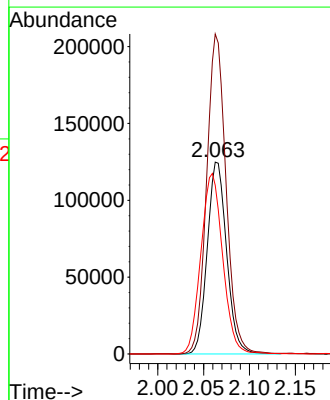
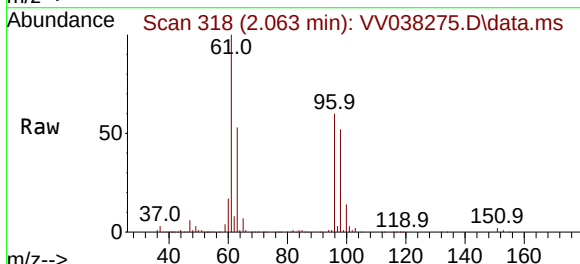
Instrument :
 MSVOA_V
 ClientSampleId :

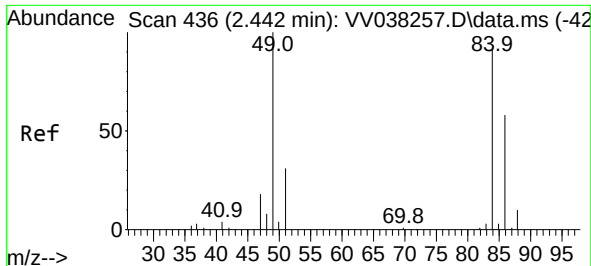
Tgt Ion:101 Resp: 11062
 Ion Ratio Lower Upper
 101 100
 85 41.3 33.4 50.0
 151 61.9 58.8 88.2



#12
 1,1-Dichloroethene
 Concen: 10.574 ug/L
 RT: 2.063 min Scan# 318
 Delta R.T. -0.000 min
 Lab File: VV038275.D
 Acq: 22 Nov 2024 17:30

Tgt Ion: 96 Resp: 183144
 Ion Ratio Lower Upper
 96 100
 61 166.8 115.7 214.9
 63 87.9 101.1 187.7#

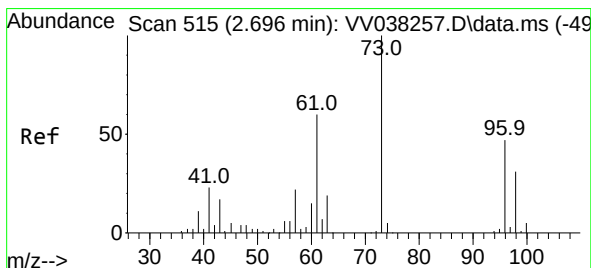
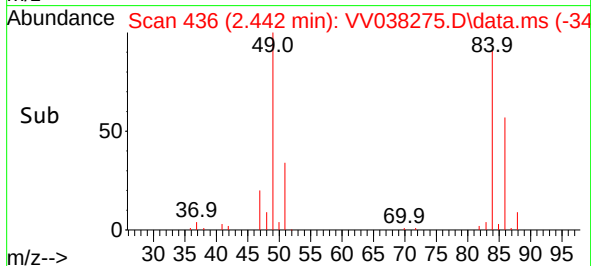
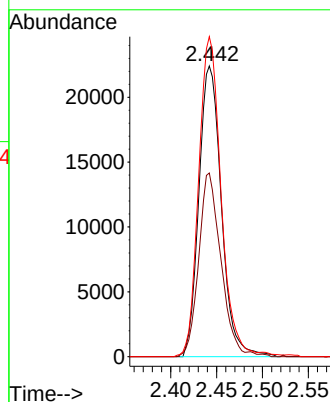
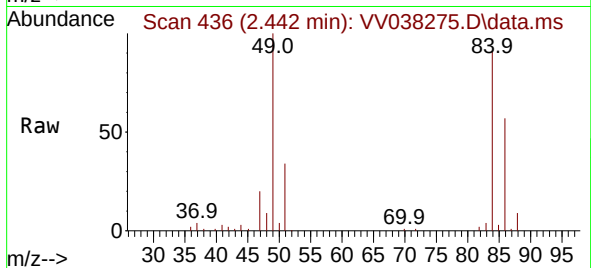




#16
Methylene chloride
Concen: 1.939 ug/L
RT: 2.442 min Scan# 41
Delta R.T. -0.000 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

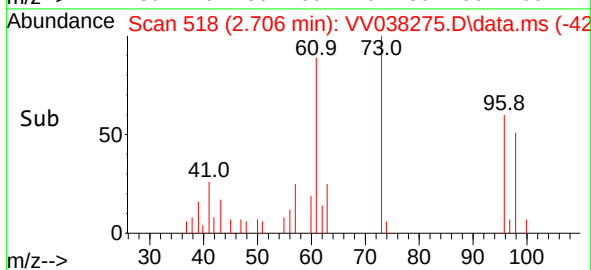
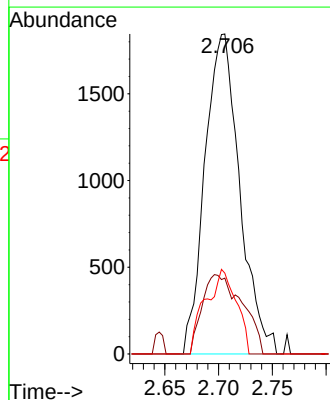
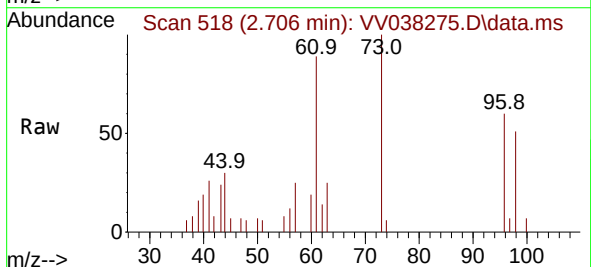
Instrument :
MSVOA_V
ClientSampleId :

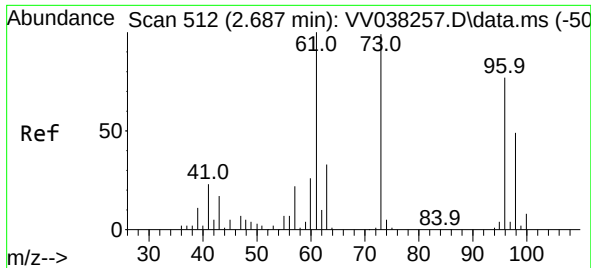
Tgt Ion: 84 Resp: 38290
Ion Ratio Lower Upper
84 100
86 63.2 44.2 82.2
49 110.1 74.9 139.1



#17
Methyl tert-butyl Ether
Concen: 0.106 ug/L
RT: 2.706 min Scan# 518
Delta R.T. 0.009 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

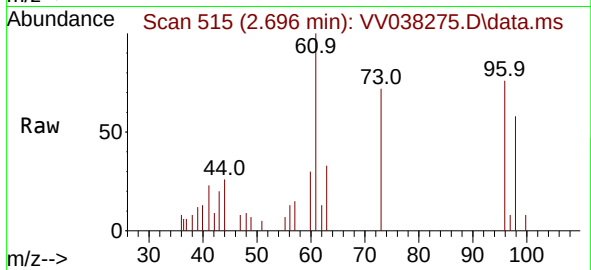
Tgt Ion: 73 Resp: 4154
Ion Ratio Lower Upper
73 100
43 28.5 14.2 21.2#
57 23.4 17.6 26.4





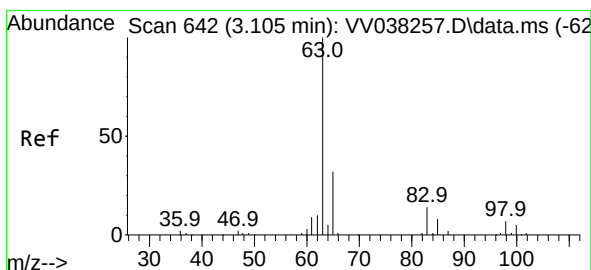
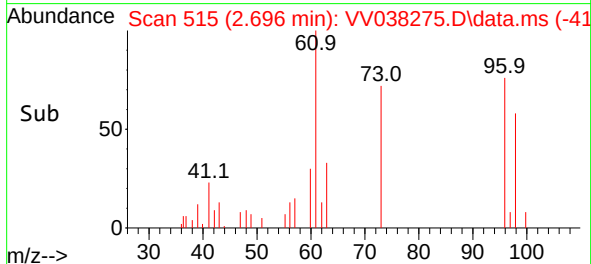
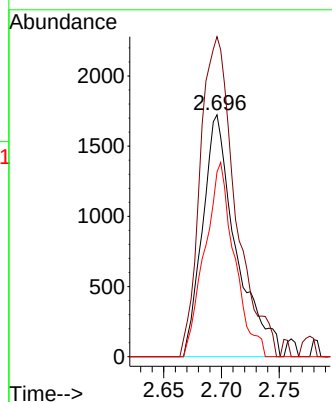
#18
 trans-1,2-Dichloroethene
 Concen: 0.189 ug/L
 RT: 2.696 min Scan# 512
 Delta R.T. 0.009 min
 Lab File: VV038275.D
 Acq: 22 Nov 2024 17:30

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 96 Resp: 3457

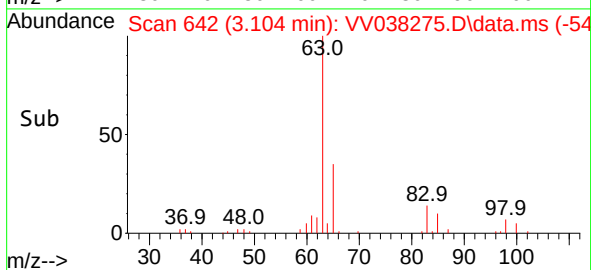
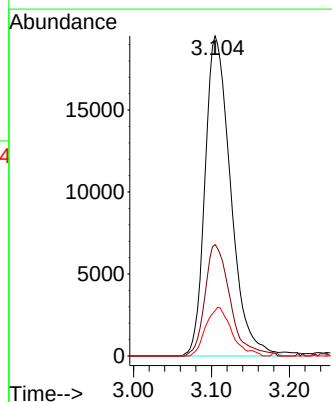
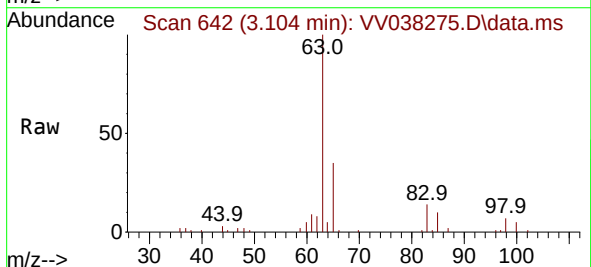
Ion	Ratio	Lower	Upper
96	100		
61	132.3	88.5	164.4
98	76.3	43.9	81.5

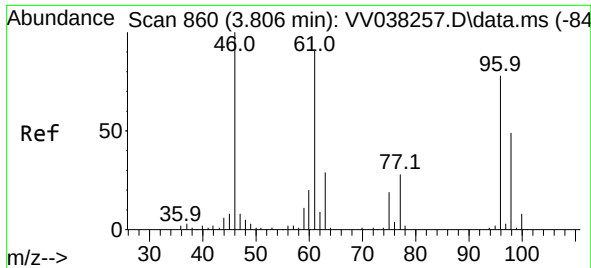


#19
 1,1-Dichloroethane
 Concen: 1.346 ug/L
 RT: 3.104 min Scan# 642
 Delta R.T. -0.000 min
 Lab File: VV038275.D
 Acq: 22 Nov 2024 17:30

Tgt Ion: 63 Resp: 44582

Ion	Ratio	Lower	Upper
63	100		
65	34.8	22.5	41.7
83	14.1	10.1	18.9





#22

cis-1,2-Dichloroethene

Concen: 14.618 ug/L

RT: 3.802 min Scan# 81

Delta R.T. -0.003 min

Lab File: VV038275.D

Acq: 22 Nov 2024 17:30

Instrument :

MSVOA_V

ClientSampleId :

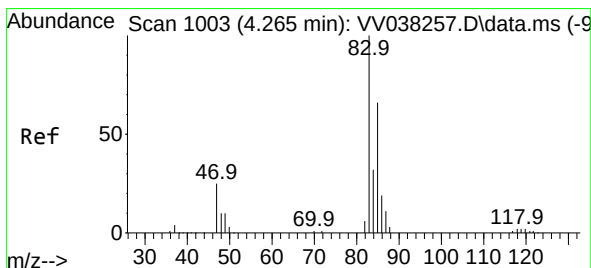
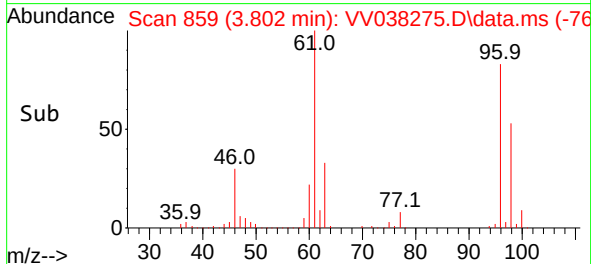
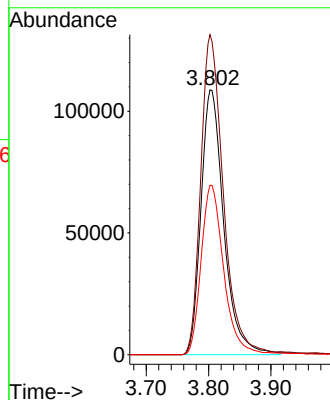
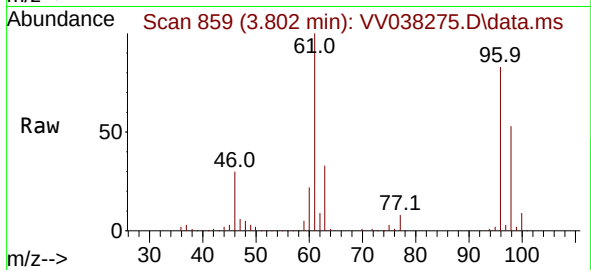
Tgt Ion: 96 Resp: 275795

Ion Ratio Lower Upper

96 100

61 120.8 82.7 153.5

98 64.0 46.3 85.9



#25

Chloroform

Concen: 0.631 ug/L

RT: 4.265 min Scan# 1003

Delta R.T. -0.000 min

Lab File: VV038275.D

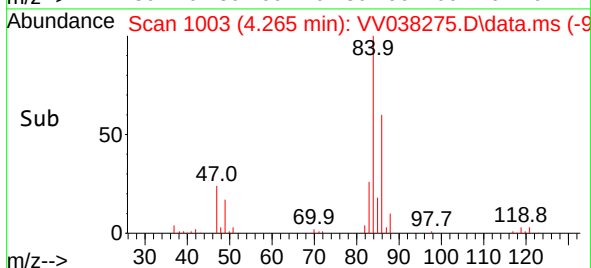
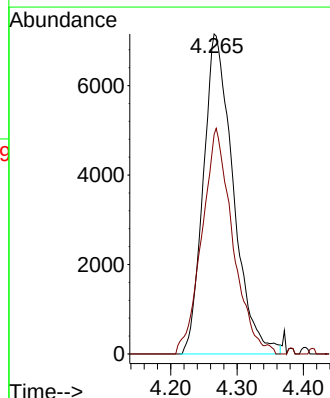
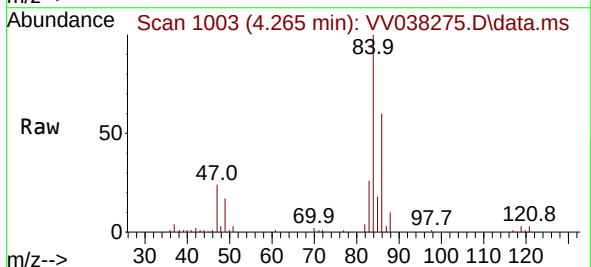
Acq: 22 Nov 2024 17:30

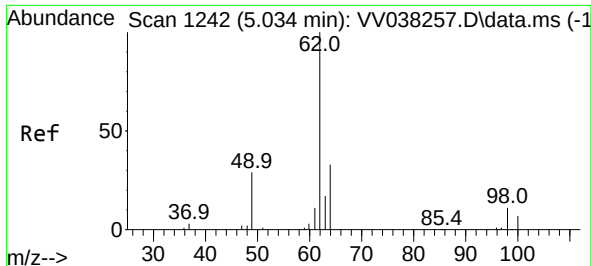
Tgt Ion: 83 Resp: 22363

Ion Ratio Lower Upper

83 100

85 68.6 46.5 86.3

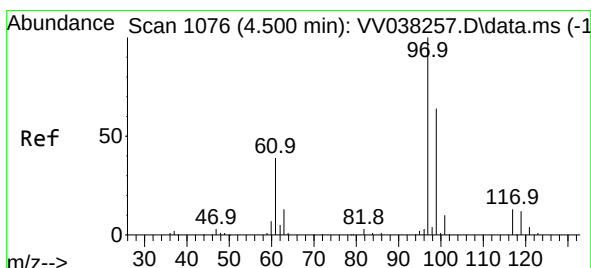
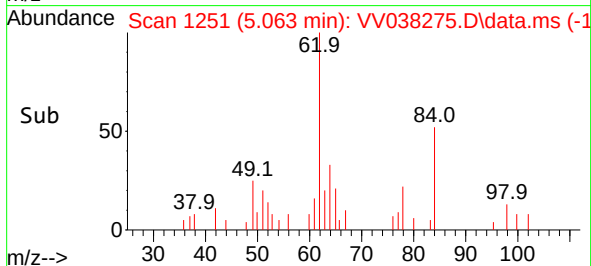
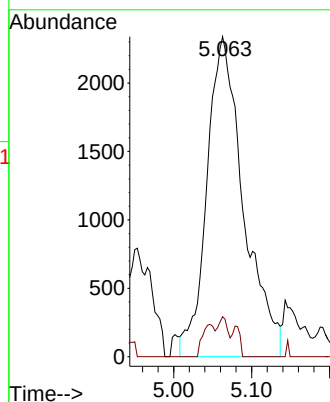
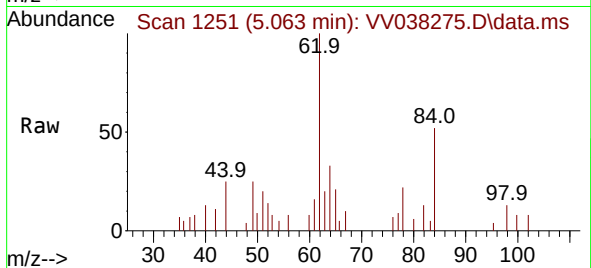




#27
1,2-Dichloroethane
Concen: 0.396 ug/L
RT: 5.063 min Scan# 11
Delta R.T. 0.029 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

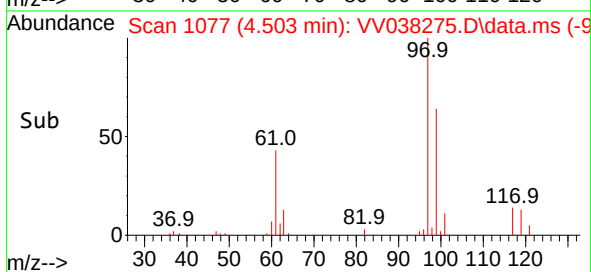
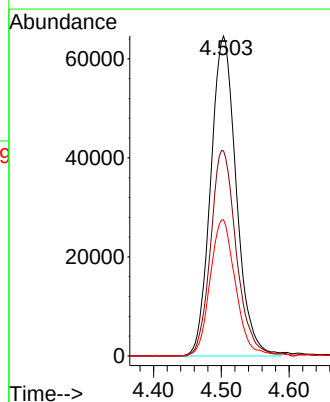
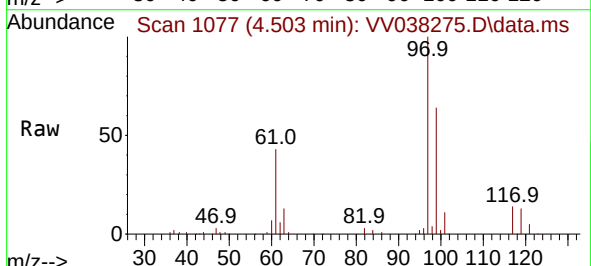
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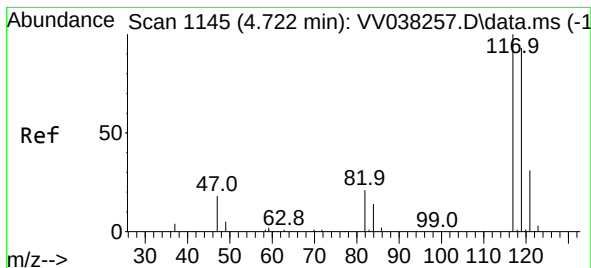
Tgt Ion: 62 Resp: 7642
Ion Ratio Lower Upper
62 100
98 12.5 8.2 12.4#



#29
1,1,1-Trichloroethane
Concen: 5.328 ug/L
RT: 4.503 min Scan# 1077
Delta R.T. 0.003 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

Tgt Ion: 97 Resp: 169651
Ion Ratio Lower Upper
97 100
99 64.4 51.8 77.8
61 42.2 32.2 48.2





#31

Carbon tetrachloride

Concen: 0.116 ug/L

RT: 4.725 min Scan# 1145

Delta R.T. 0.003 min

Lab File: VV038275.D

Acq: 22 Nov 2024 17:30

Instrument :

MSVOA_V

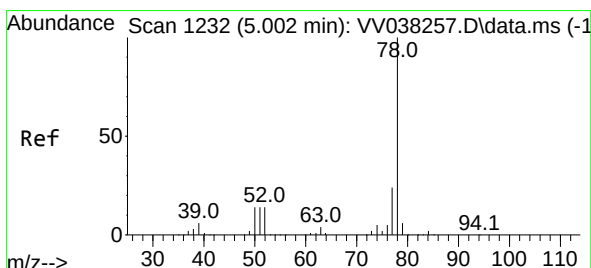
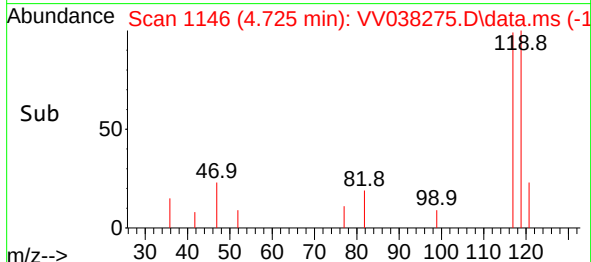
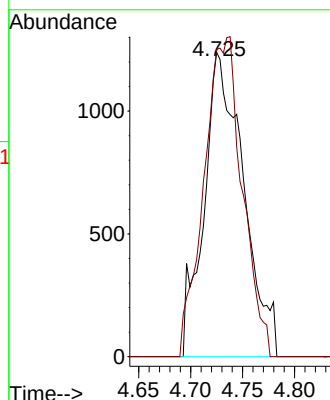
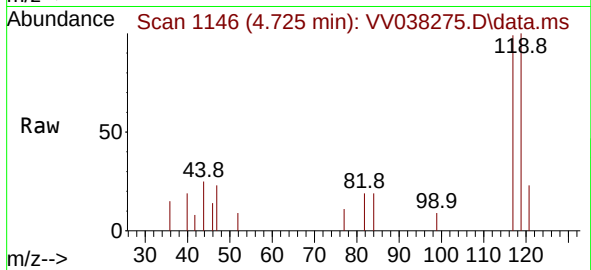
ClientSampleId :

Tgt Ion:117 Resp: 3270

Ion Ratio Lower Upper

117 100

119 102.2 77.4 116.2



#33

Benzene

Concen: 0.141 ug/L

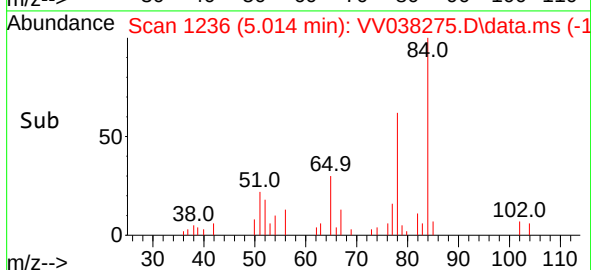
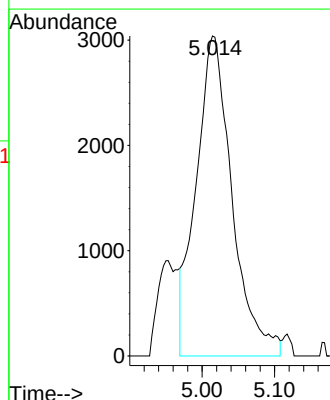
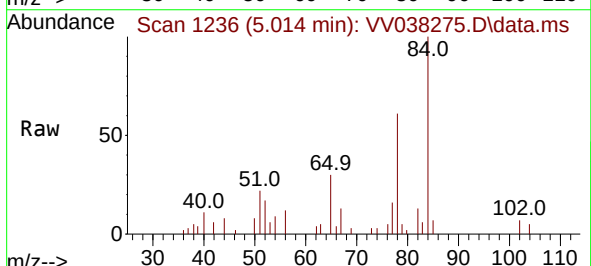
RT: 5.014 min Scan# 1236

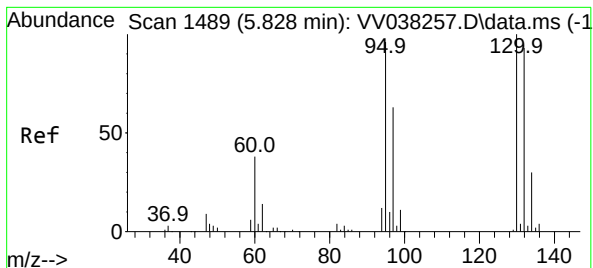
Delta R.T. 0.013 min

Lab File: VV038275.D

Acq: 22 Nov 2024 17:30

Tgt Ion: 78 Resp: 10479





#34

Trichloroethene

Concen: 236.877 ug/L

RT: 5.818 min Scan# 1486

Delta R.T. -0.010 min

Lab File: VV038275.D

Acq: 22 Nov 2024 17:30

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 4815843

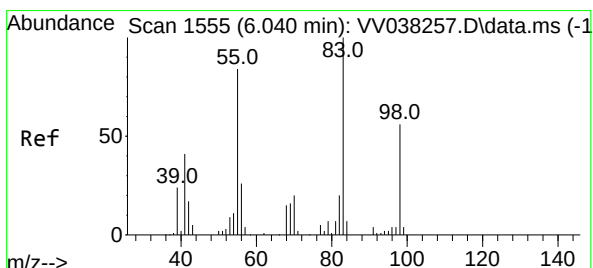
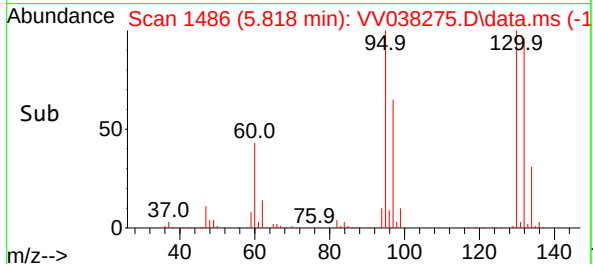
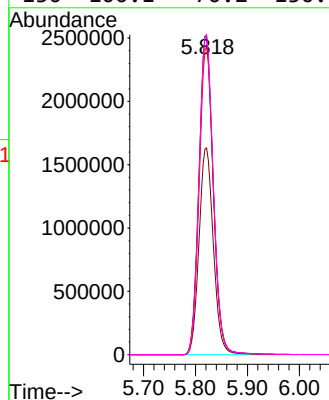
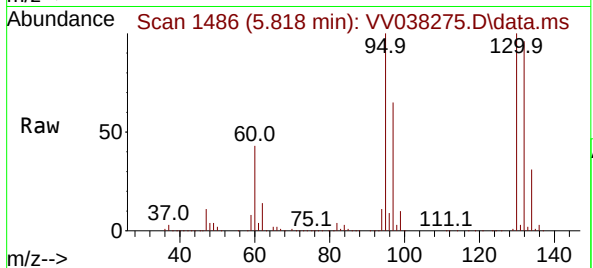
Ion Ratio Lower Upper

95 100

97 64.6 44.8 83.2

132 95.7 68.3 126.8

130 100.1 70.2 130.4



#35

Methylcyclohexane

Concen: 0.864 ug/L

RT: 5.982 min Scan# 1537

Delta R.T. -0.058 min

Lab File: VV038275.D

Acq: 22 Nov 2024 17:30

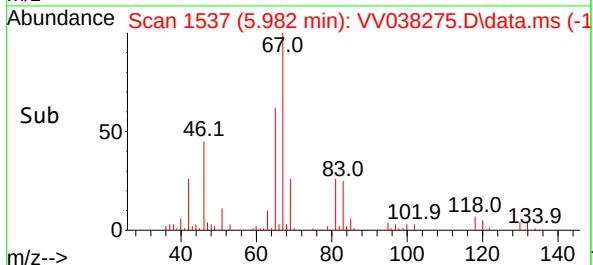
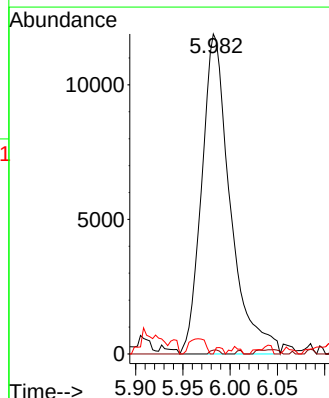
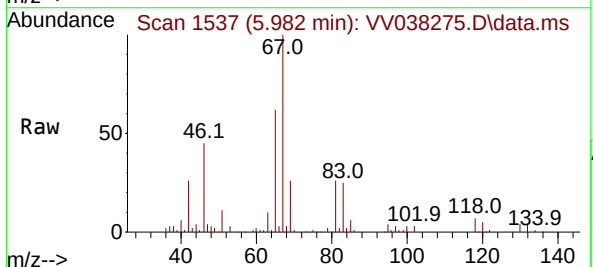
Tgt Ion: 83 Resp: 24861

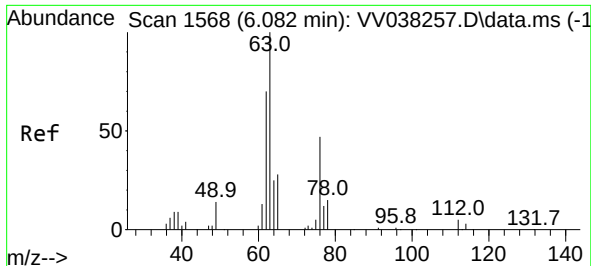
Ion Ratio Lower Upper

83 100

55 0.4 59.7 89.5#

98 0.0 39.0 58.4#





#37

1,2-Dichloropropane

Concen: 0.243 ug/L

RT: 6.101 min Scan# 11

Delta R.T. 0.019 min

Lab File: VV038275.D

Acq: 22 Nov 2024 17:30

Instrument :

MSVOA_V

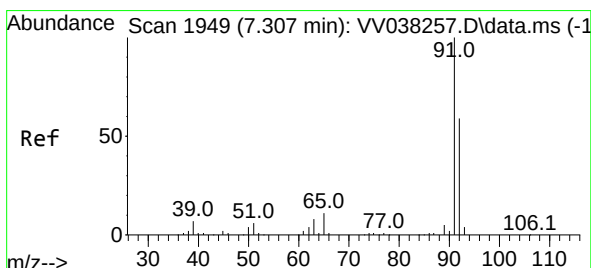
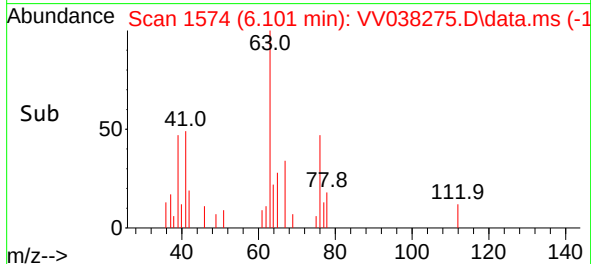
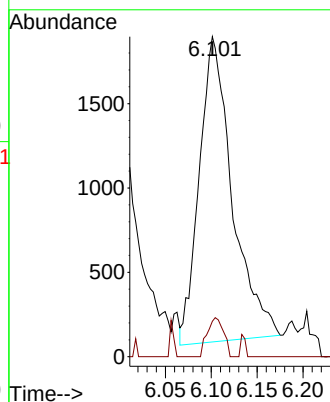
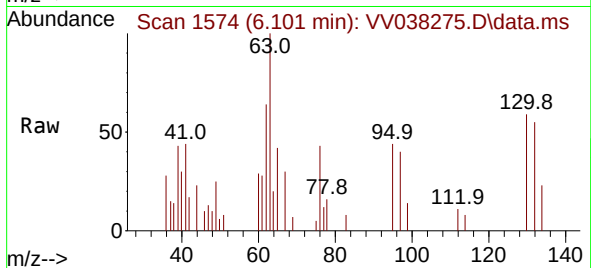
ClientSampleId :

Tgt Ion: 63 Resp: 4534

Ion Ratio Lower Upper

63 100

112 6.3 3.9 5.9#



#42

Toluene

Concen: 0.504 ug/L

RT: 7.320 min Scan# 1953

Delta R.T. 0.013 min

Lab File: VV038275.D

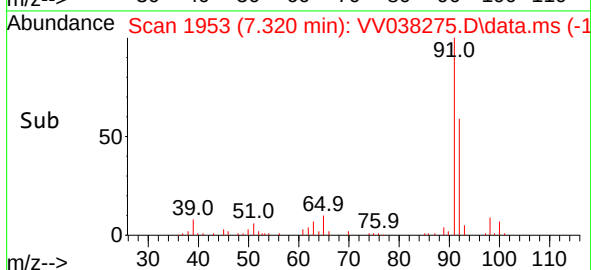
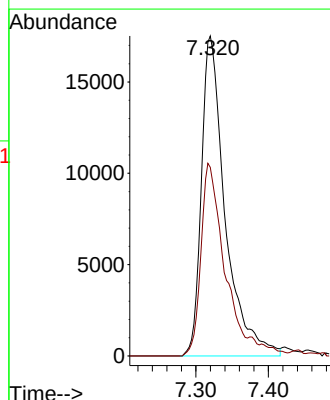
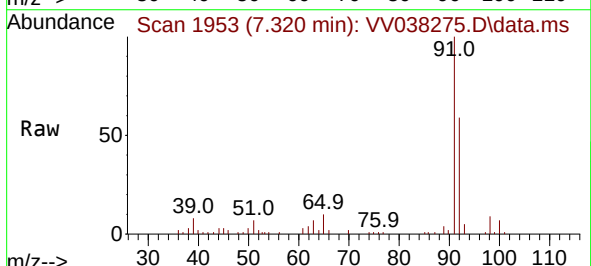
Acq: 22 Nov 2024 17:30

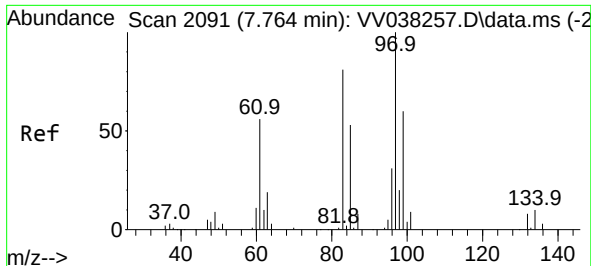
Tgt Ion: 91 Resp: 39808

Ion Ratio Lower Upper

91 100

92 58.9 40.8 75.8

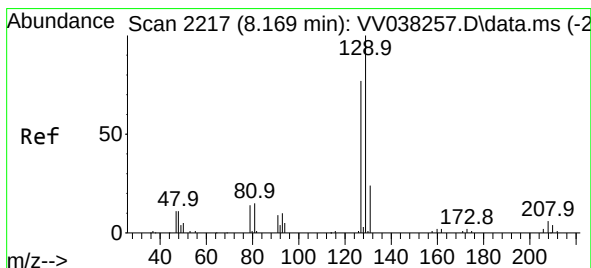
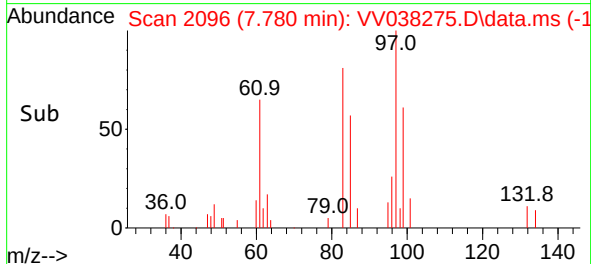
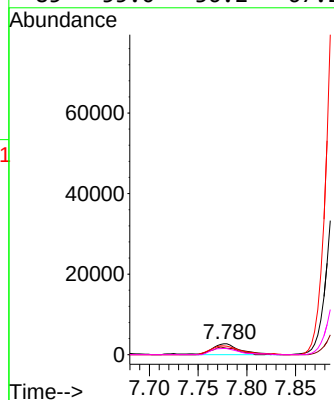
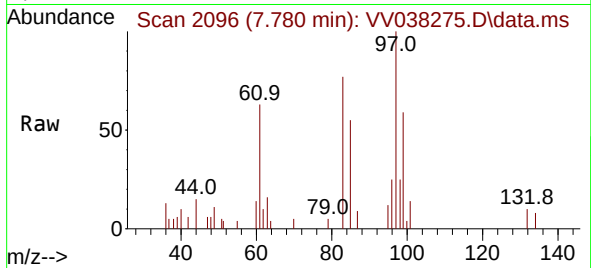




#45
1,1,2-Trichloroethane
Concen: 0.364 ug/L
RT: 7.780 min Scan# 2091
Delta R.T. 0.016 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

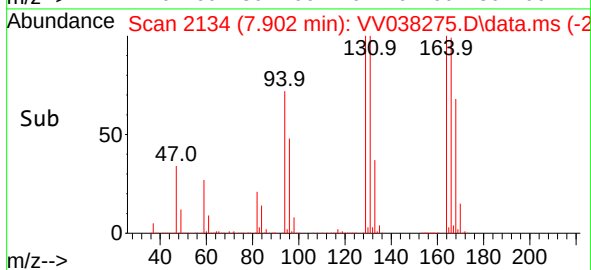
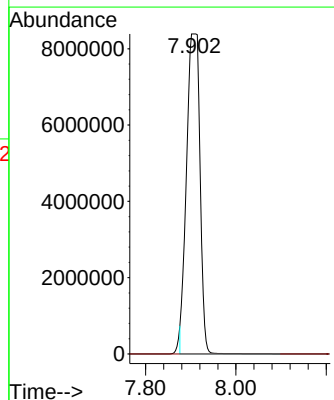
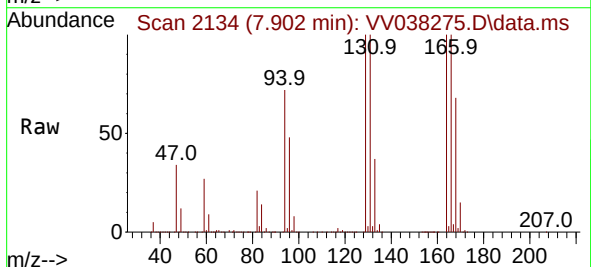
Instrument :
MSVOA_V
ClientSampleId :

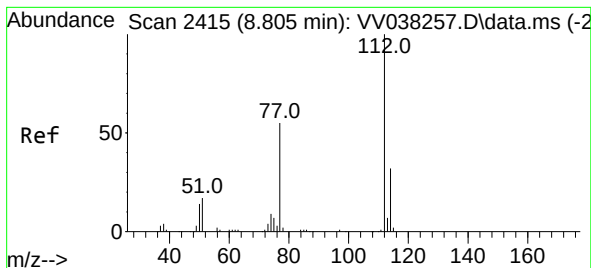
Tgt Ion: 97 Resp: 5522
Ion Ratio Lower Upper
97 100
99 58.5 41.9 77.7
83 77.3 57.7 107.1
85 55.0 36.2 67.2



#49
Dibromochloromethane
Concen: 1053.452 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. -0.267 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

Tgt Ion: 129 Resp: 17400574
Ion Ratio Lower Upper
129 100
127 0.0 53.5 99.3#





#51

Chlorobenzene

Concen: 0.343 ug/L

RT: 8.815 min Scan# 2415

Delta R.T. 0.009 min

Lab File: VV038275.D

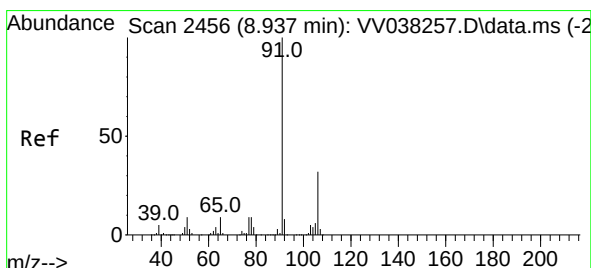
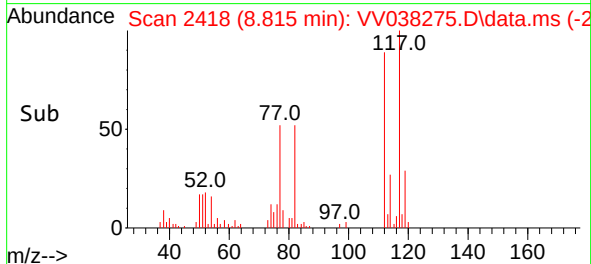
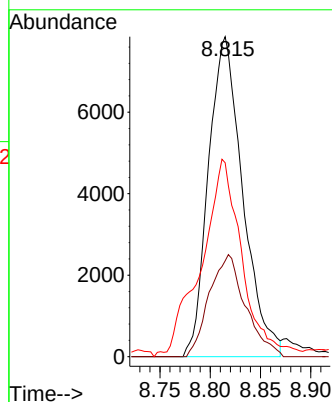
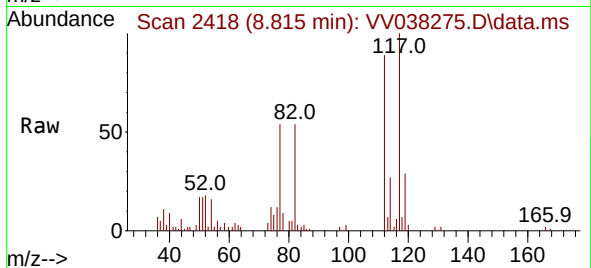
Acq: 22 Nov 2024 17:30

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	112	Resp:	18656
Ion Ratio	Lower	Upper	
112	100		
114	30.0	22.0	40.8
77	60.6	45.0	67.4



#52

Ethylbenzene

Concen: 0.147 ug/L

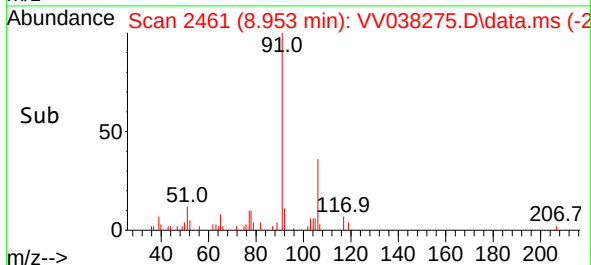
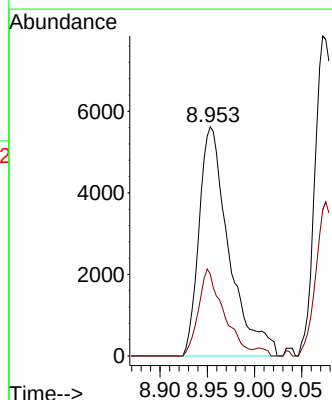
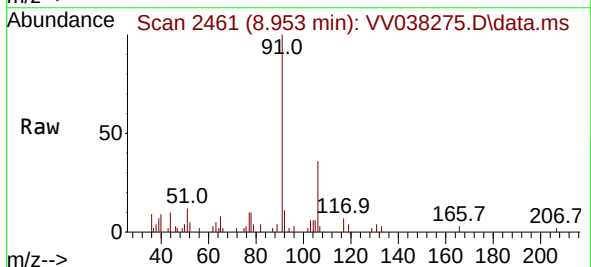
RT: 8.953 min Scan# 2461

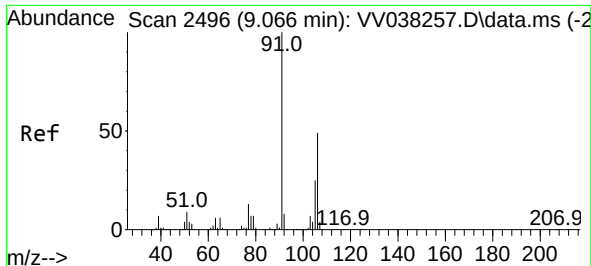
Delta R.T. 0.016 min

Lab File: VV038275.D

Acq: 22 Nov 2024 17:30

Tgt Ion:	91	Resp:	12332
Ion Ratio	Lower	Upper	
91	100		
106	35.6	21.8	40.4

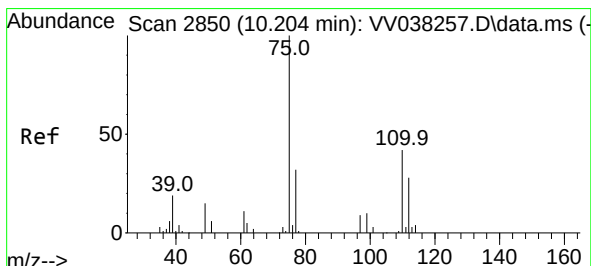
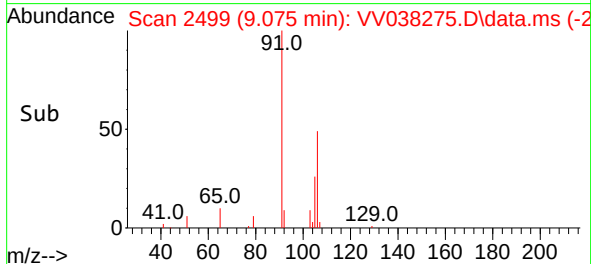
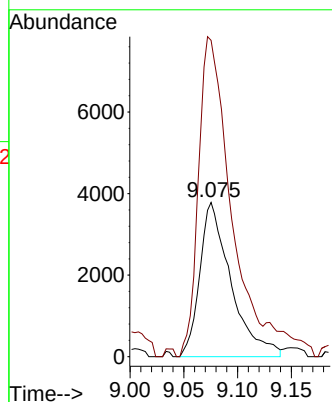
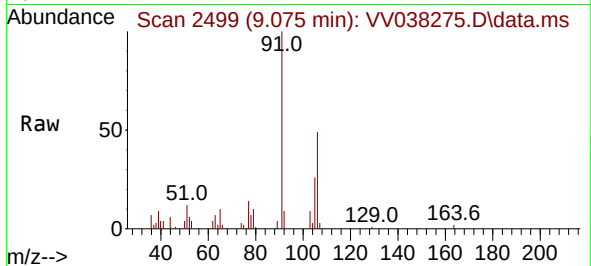




#53
m,p-Xylene
Concen: 0.242 ug/L
RT: 9.075 min Scan# 2496
Delta R.T. 0.009 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

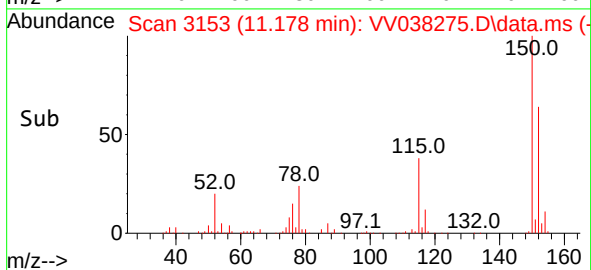
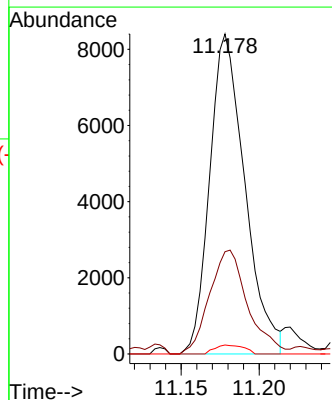
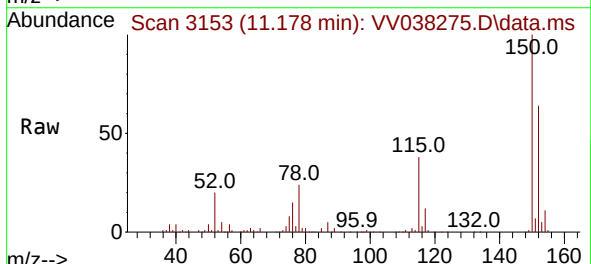
Instrument :
MSVOA_V
ClientSampleId :

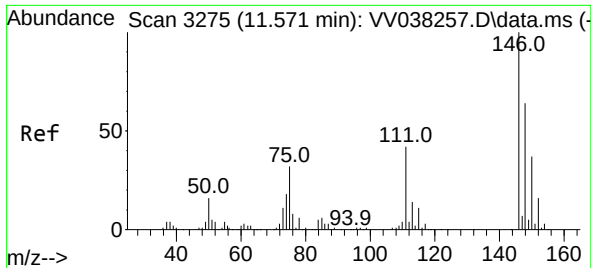
Tgt Ion:106 Resp: 7650
Ion Ratio Lower Upper
106 100
91 205.0 138.7 257.5



#61
1,2,3-Trichloropropane
Concen: 1.371 ug/L
RT: 11.178 min Scan# 3153
Delta R.T. 0.974 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

Tgt Ion: 75 Resp: 13170
Ion Ratio Lower Upper
75 100
77 35.1 26.4 39.6
110 2.3 32.3 48.5#

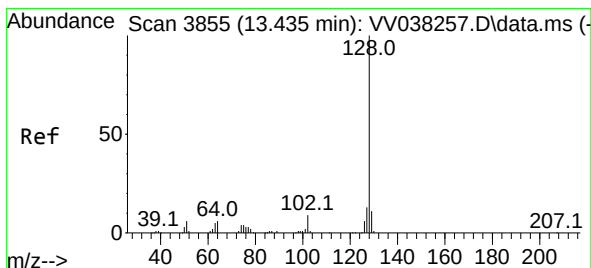
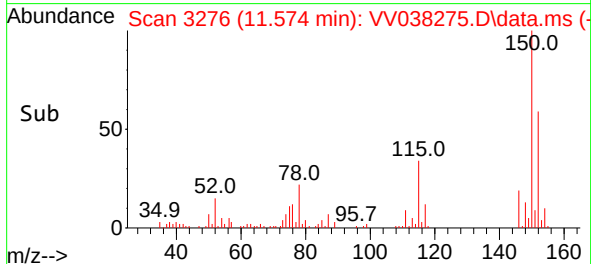
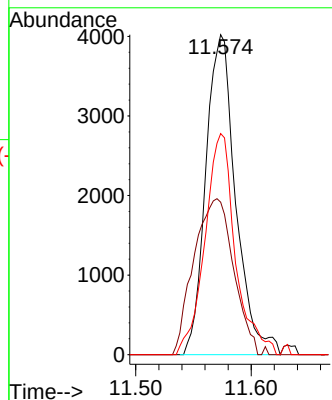
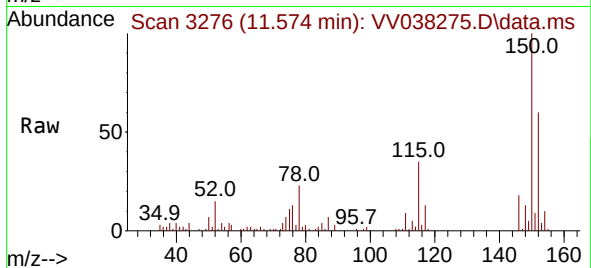




#67
1,2-Dichlorobenzene
Concen: 0.225 ug/L
RT: 11.574 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:146 Resp: 7239
Ion Ratio Lower Upper
146 100
111 47.7 34.2 51.2
148 69.1 51.0 76.4



#71
Naphthalene
Concen: 0.125 ug/L
RT: 13.461 min Scan# 3863
Delta R.T. 0.025 min
Lab File: VV038275.D
Acq: 22 Nov 2024 17:30

Tgt Ion:128 Resp: 3941
Ion Ratio Lower Upper
128 100
129 5.7 8.5 12.7#
127 9.0 10.1 15.1#

