

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW092722\
 Data File : VW028134.D
 Acq On : 27 Sep 2022 13:04
 Operator : SY/MD
 Sample : N4820-04
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 CB8L4

Quant Time: Sep 28 03:09:59 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092222WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 28 03:08:11 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.613	114	186749	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	185977	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	101417	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	58583	3.026	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	60.600%
7) Chloroethane-d5	1.561	69	56754	3.687	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	73.800%
11) 1,1-Dichloroethene-d2	2.098	63	79472	2.367	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	47.400%#
20) 2-Butanone-d5	3.905	46	161612	49.444	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.880%
24) Chloroform-d	4.343	84	126488	4.094	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.800%
26) 1,2-Dichloroethane-d4	5.031	65	64218	4.368	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.400%
32) Benzene-d6	5.044	84	235494	3.862	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.200%
36) 1,2-Dichloropropane-d6	6.063	67	79147	4.163	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.200%
41) Toluene-d8	7.314	98	191845	3.476	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	69.600%#
43) trans-1,3-Dichloroprop...	7.619	79	27678	4.031	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.600%
46) 2-Hexanone-d5	8.085	63	141790	49.472	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.940%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	64070	4.931	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.600%
66) 1,2-Dichlorobenzene-d4	11.622	152	89920	4.520	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.237	50	2216	0.120	ug/L	93
5) Vinyl chloride	1.410	62	1021	0.071	ug/L	93
13) Acetone	2.195	43	13004	5.165	ug/L	61
14) Carbon disulfide	2.285	76	4996	0.202	ug/L #	94
17) Methyl tert-butyl Ether	2.774	73	2235	0.081	ug/L #	88
18) trans-1,2-Dichloroethene	2.764	96	871	0.077	ug/L #	60
22) cis-1,2-Dichloroethene	3.909	96	2486	0.168	ug/L	78
30) Cyclohexane	4.680	56	1977	0.120	ug/L #	1
33) Benzene	5.098	78	22850	0.442	ug/L	100
35) Methylcyclohexane	6.124	83	4973	0.282	ug/L	98
37) 1,2-Dichloropropane	6.066	63	8670	0.599	ug/L #	87
42) Toluene	7.391	91	22773	0.423	ug/L	96
45) 1,1,2-Trichloroethane	7.789	97	1485	0.153	ug/L #	32
51) Chlorobenzene	8.876	112	630212	17.442	ug/L	100
52) Ethylbenzene	9.018	91	2345	0.041	ug/L #	72
53) m,p-Xylene	9.140	106	3781	0.173	ug/L	97
54) o-Xylene	9.542	106	2745	0.127	ug/L	79
57) 1,1,2,2-Tetrachloroethane	10.236	83	2224	0.197	ug/L #	47
60) Isopropylbenzene	9.928	105	68295	1.147	ug/L	97

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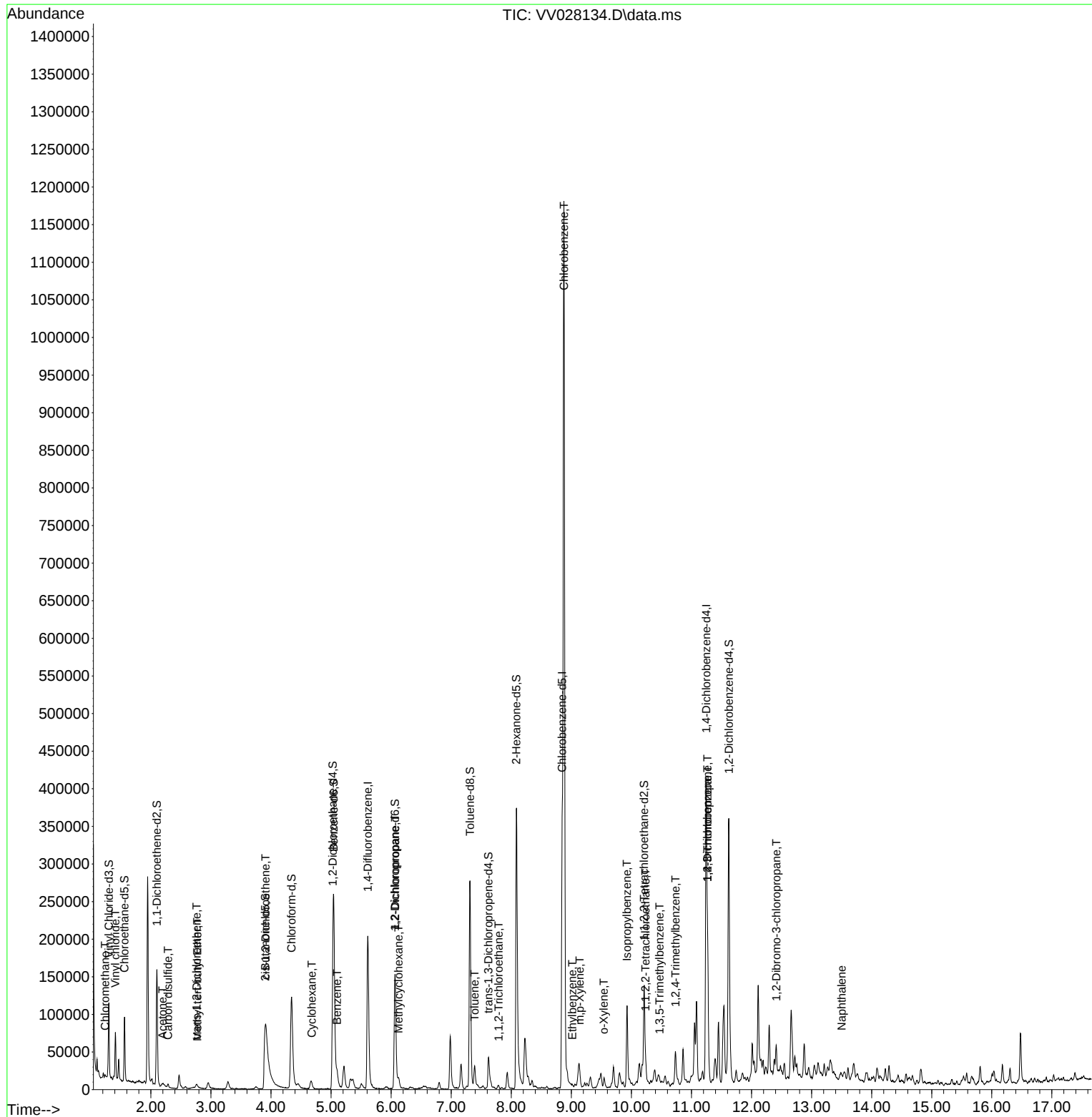
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	11.268	75	30328	3.566	ug/L #	48
62) 1,3,5-Trimethylbenzene	10.471	105	3984	0.238	ug/L #	55
63) 1,2,4-Trimethylbenzene	10.735	105	17447	0.372	ug/L #	73
65) 1,4-Dichlorobenzene	11.268	146	72721	2.454	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.413	75	268	0.144	ug/L #	1
71) Naphthalene	13.503	128	4233	0.138	ug/L #	92

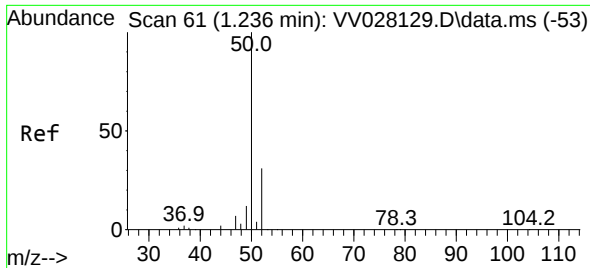
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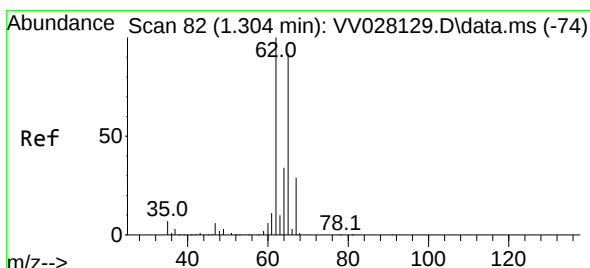
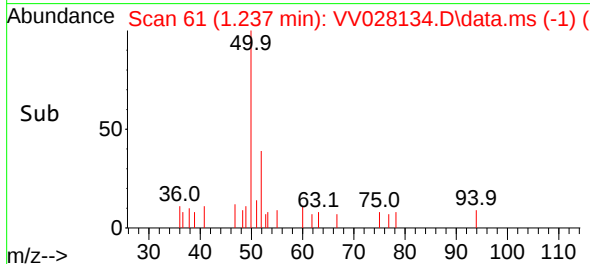
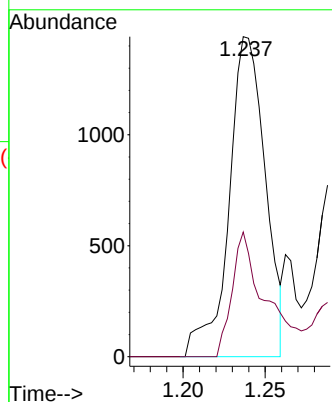
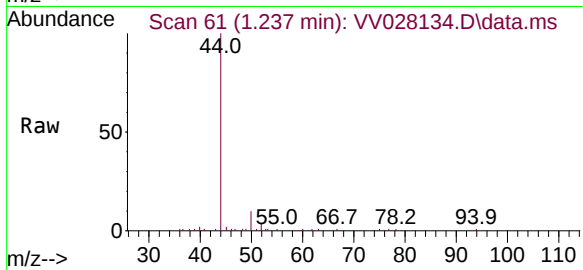




#3
Chloromethane
Concen: 0.120 ug/L
RT: 1.237 min Scan# 61
Delta R.T. 0.000 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

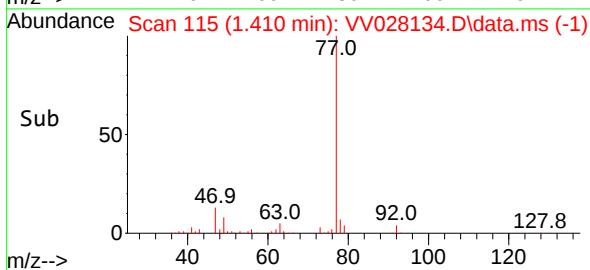
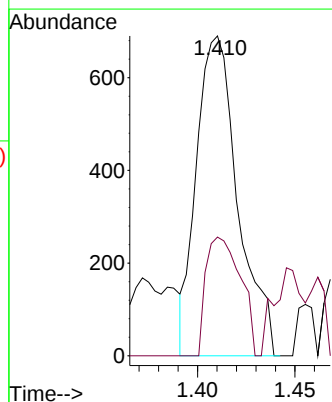
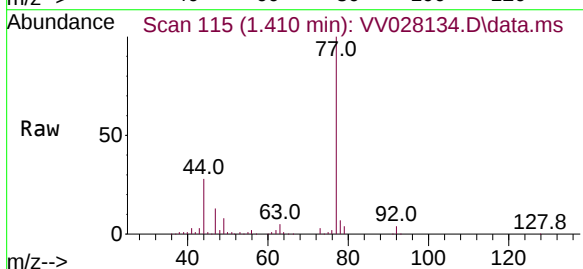
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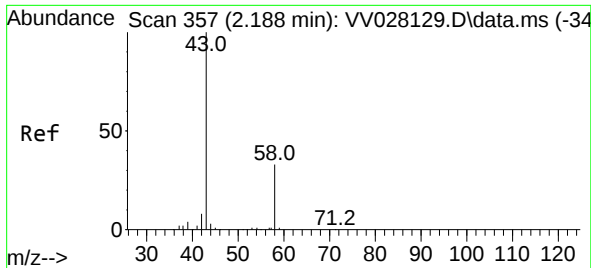
Tgt Ion: 50 Resp: 2216
Ion Ratio Lower Upper
50 100
52 39.0 24.4 45.2



#5
Vinyl chloride
Concen: 0.071 ug/L
RT: 1.410 min Scan# 115
Delta R.T. 0.106 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

Tgt Ion: 62 Resp: 1021
Ion Ratio Lower Upper
62 100
64 37.1 23.0 42.8





#13

Acetone

Concen: 5.165 ug/L

RT: 2.195 min Scan# 359

Delta R.T. 0.007 min

Lab File: VV028134.D

Acq: 27 Sep 2022 13:04

Instrument :

MSVOA_V

ClientSampleId :

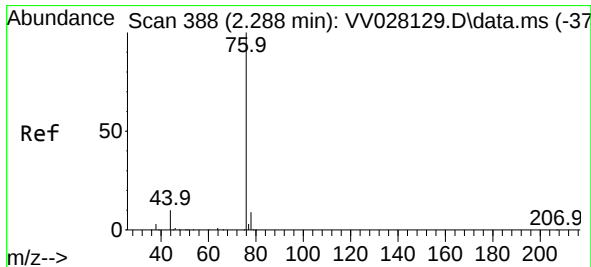
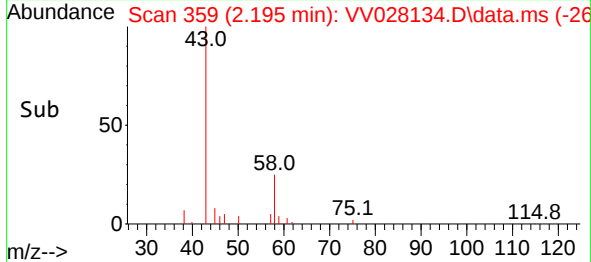
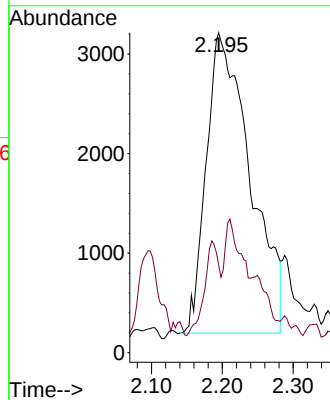
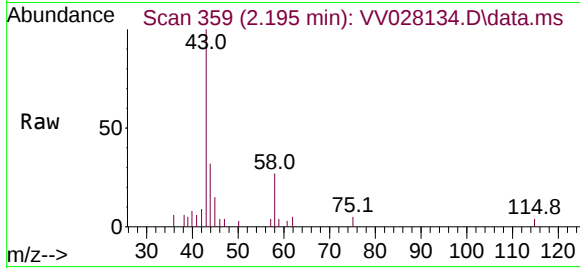
CB8L4

Tgt Ion: 43 Resp: 13004

Ion Ratio Lower Upper

43 100

58 10.6 0.0 65.6



#14

Carbon disulfide

Concen: 0.202 ug/L

RT: 2.285 min Scan# 387

Delta R.T. -0.003 min

Lab File: VV028134.D

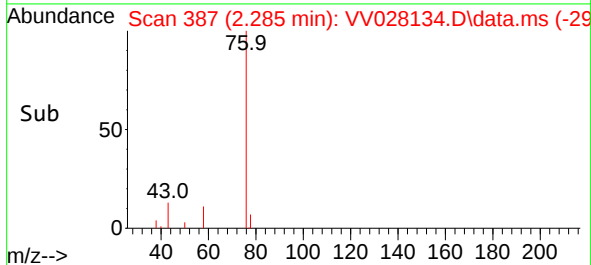
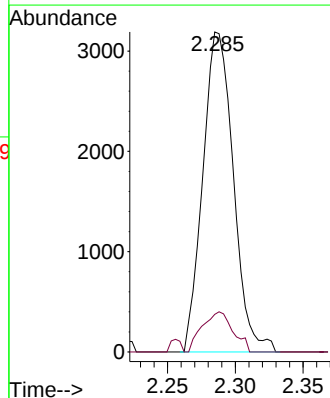
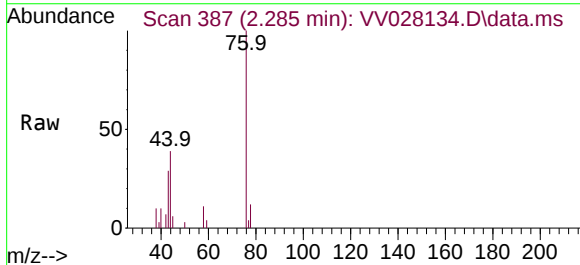
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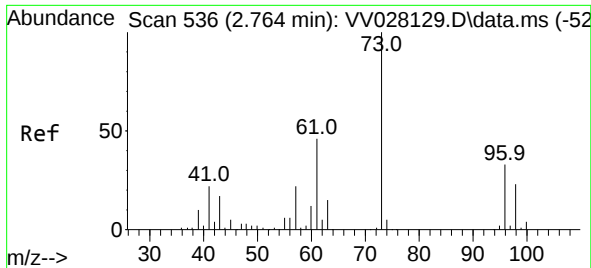
Tgt Ion: 76 Resp: 4996

Ion Ratio Lower Upper

76 100

78 11.7 7.6 11.4#

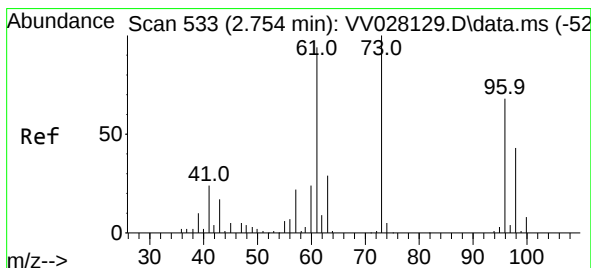
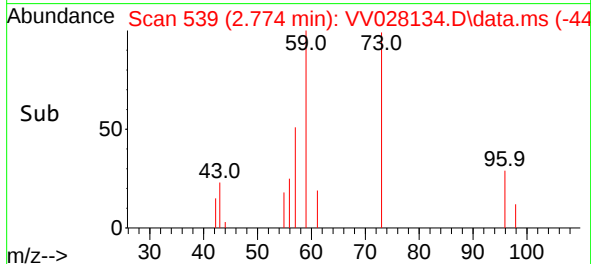
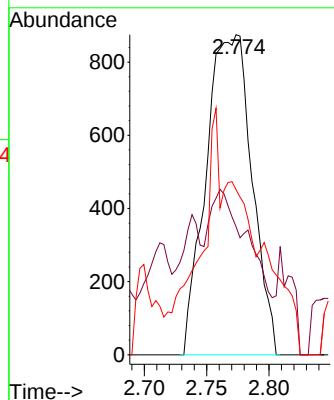
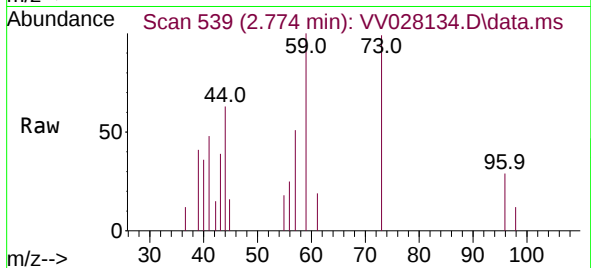




#17
Methyl tert-butyl Ether
Concen: 0.081 ug/L
RT: 2.774 min Scan# 51
Delta R.T. 0.010 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

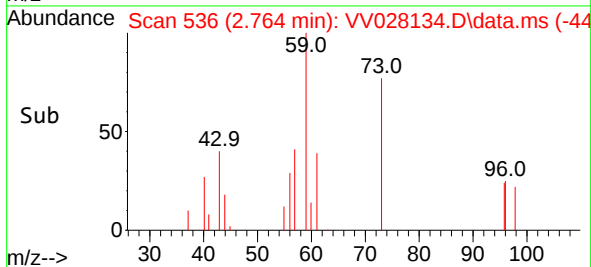
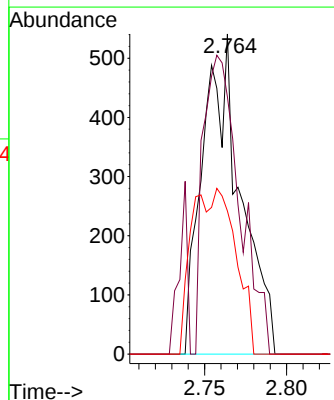
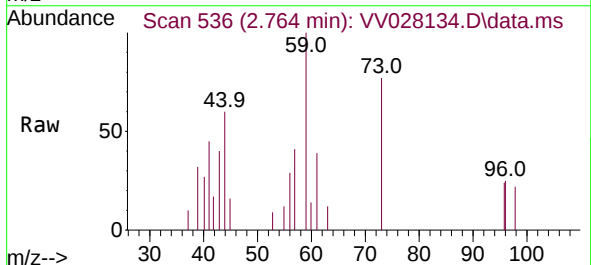
Instrument :
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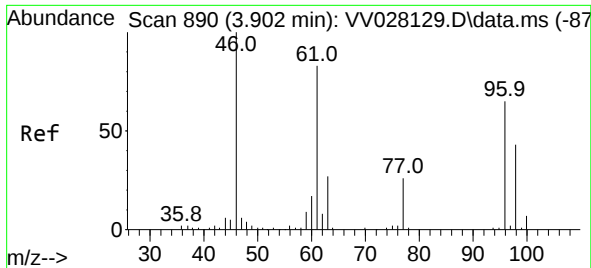
Tgt Ion: 73 Resp: 2235
Ion Ratio Lower Upper
73 100
43 28.3 15.7 23.5#
57 25.0 17.8 26.8



#18
trans-1,2-Dichloroethene
Concen: 0.077 ug/L
RT: 2.764 min Scan# 536
Delta R.T. 0.010 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

Tgt Ion: 96 Resp: 871
Ion Ratio Lower Upper
96 100
61 80.4 96.2 178.6#
98 44.7 45.7 84.9#

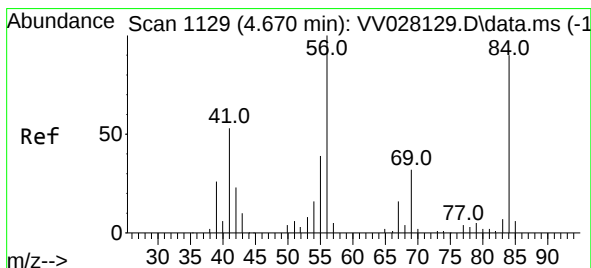
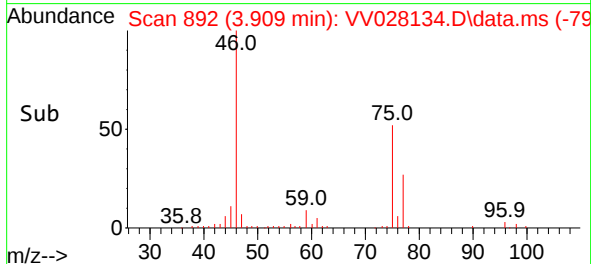
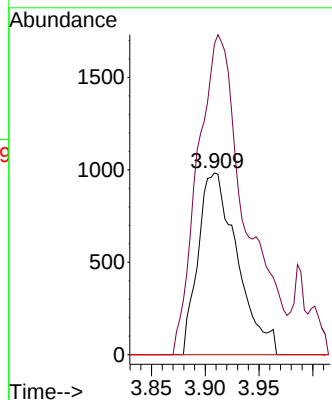
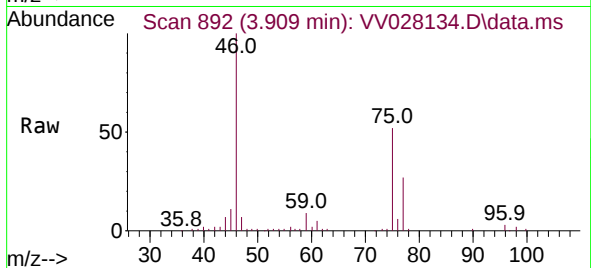




#22
 cis-1,2-Dichloroethene
 Concen: 0.168 ug/L
 RT: 3.909 min Scan# 890
 Delta R.T. 0.007 min
 Lab File: VV028134.D
 Acq: 27 Sep 2022 13:04

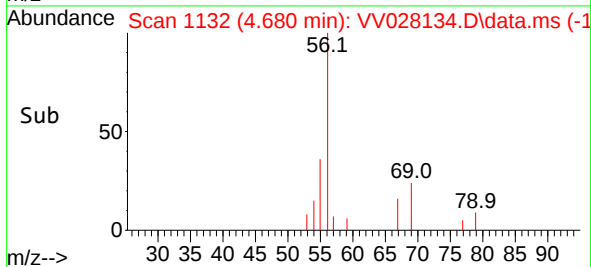
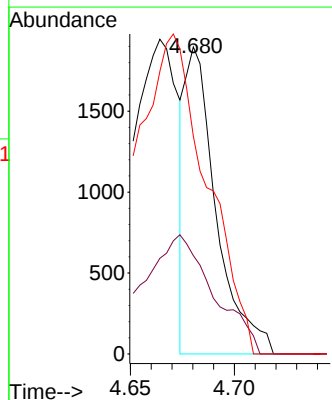
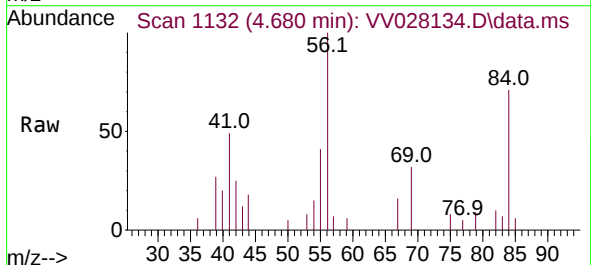
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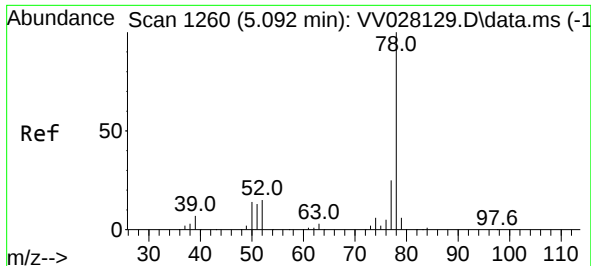
Tgt Ion: 96 Resp: 2486
 Ion Ratio Lower Upper
 96 100
 61 149.2 87.2 161.9
 68 0.0 0.0 0.0



#30
 Cyclohexane
 Concen: 0.120 ug/L
 RT: 4.680 min Scan# 1132
 Delta R.T. 0.010 min
 Lab File: VV028134.D
 Acq: 27 Sep 2022 13:04

Tgt Ion: 56 Resp: 1977
 Ion Ratio Lower Upper
 56 100
 69 91.5 23.7 35.5#
 84 243.9 67.3 100.9#

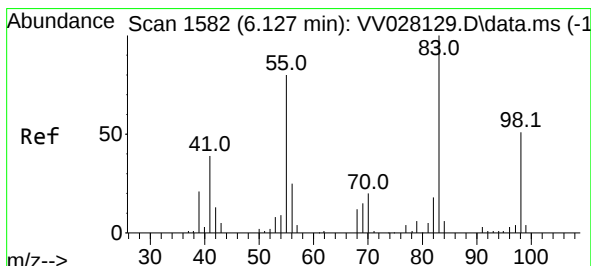
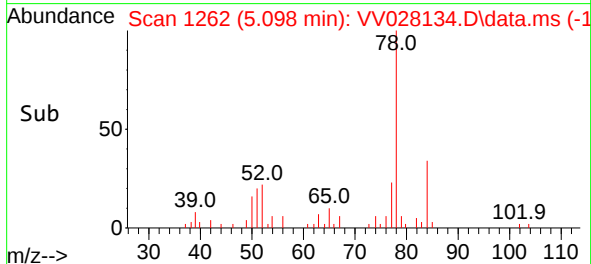
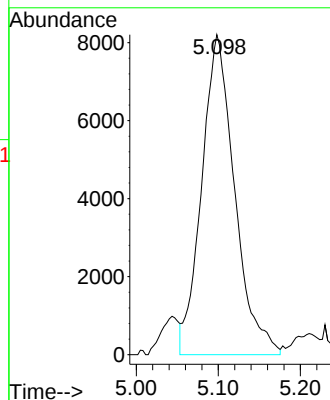
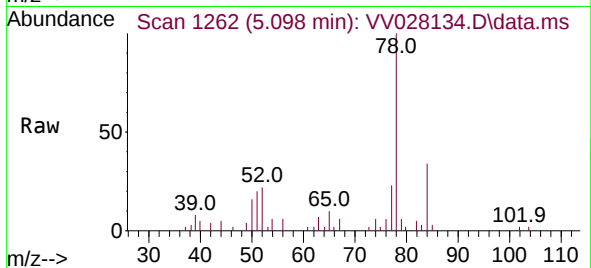




#33
Benzene
Concen: 0.442 ug/L
RT: 5.098 min Scan# 11
Delta R.T. 0.007 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

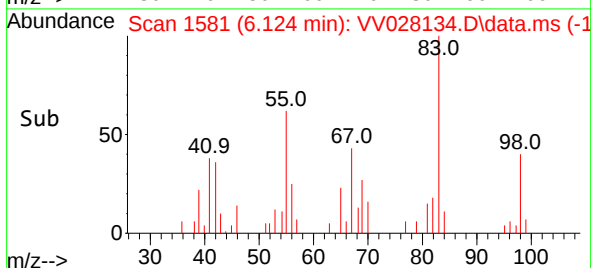
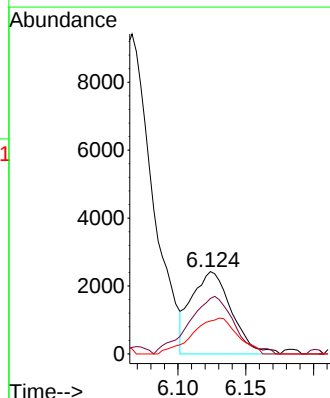
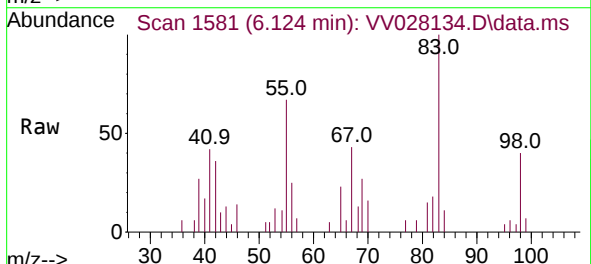
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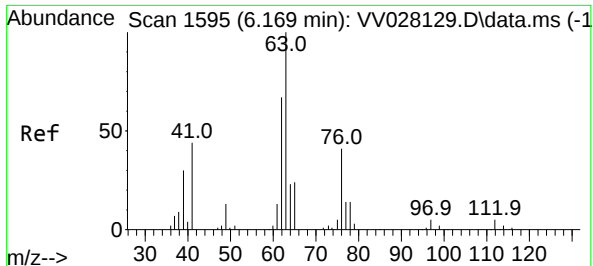
Tgt Ion: 78 Resp: 22850



#35
Methylcyclohexane
Concen: 0.282 ug/L
RT: 6.124 min Scan# 1581
Delta R.T. -0.003 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

Tgt Ion: 83 Resp: 4973
Ion Ratio Lower Upper
83 100
55 78.4 64.7 97.1
98 48.8 39.5 59.3





#37

1,2-Dichloropropane

Concen: 0.599 ug/L

RT: 6.066 min Scan# 1

Delta R.T. -0.103 min

Lab File: VV028134.D

Acq: 27 Sep 2022 13:04

Instrument :

MSVOA_V

ClientSampleId :

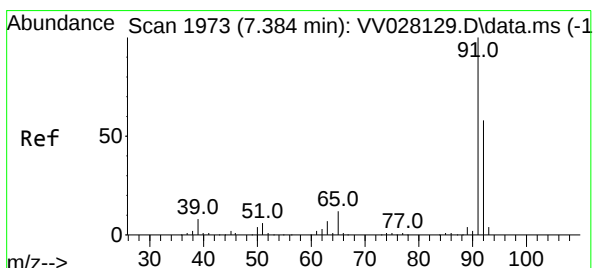
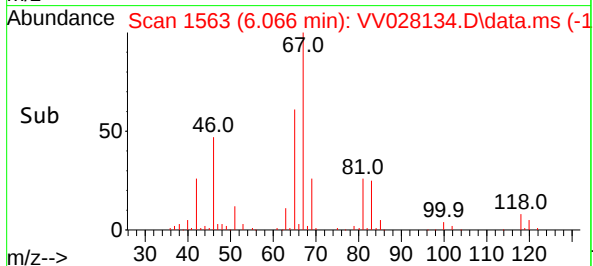
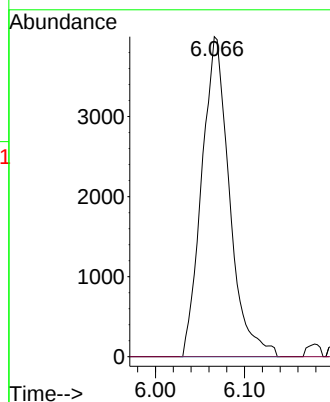
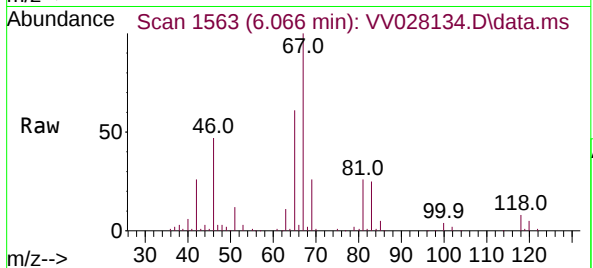
CB8L4

Tgt Ion: 63 Resp: 8670

Ion Ratio Lower Upper

63 100

112 0.2 3.5 5.3#



#42

Toluene

Concen: 0.423 ug/L

RT: 7.391 min Scan# 1975

Delta R.T. 0.007 min

Lab File: VV028134.D

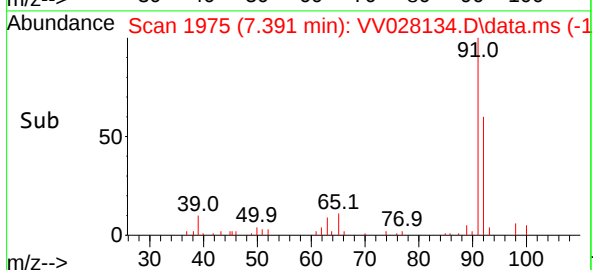
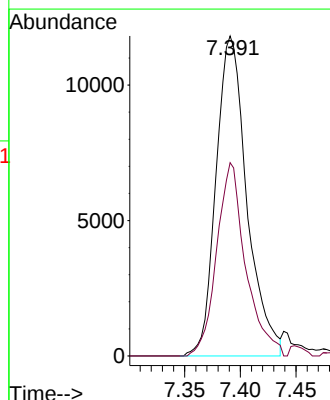
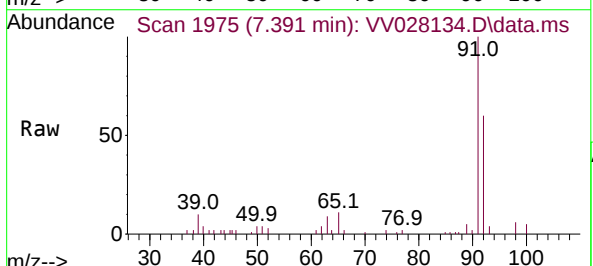
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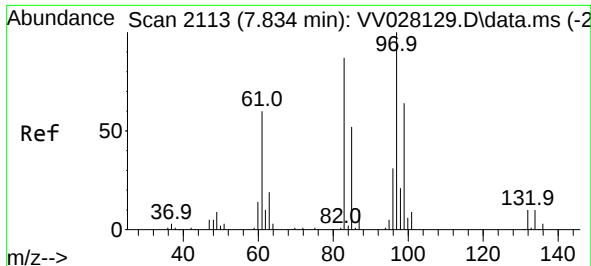
Tgt Ion: 91 Resp: 22773

Ion Ratio Lower Upper

91 100

92 60.4 40.2 74.6

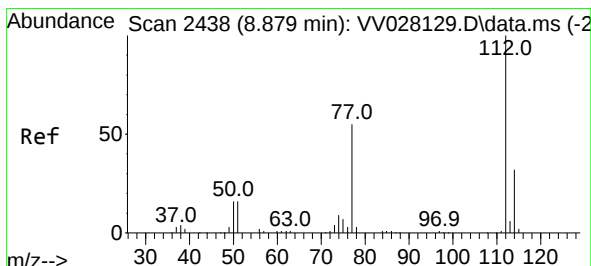
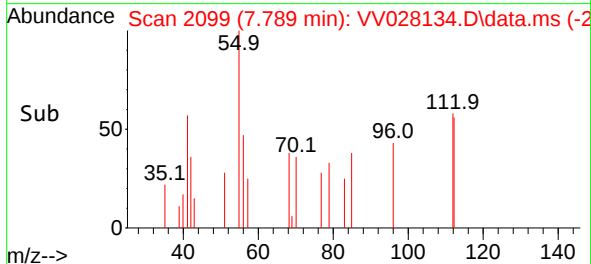
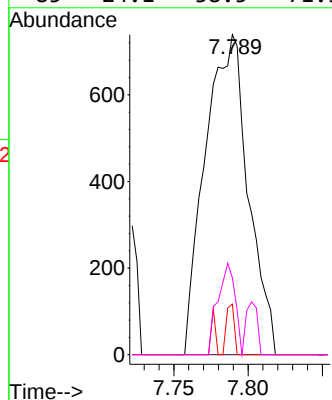
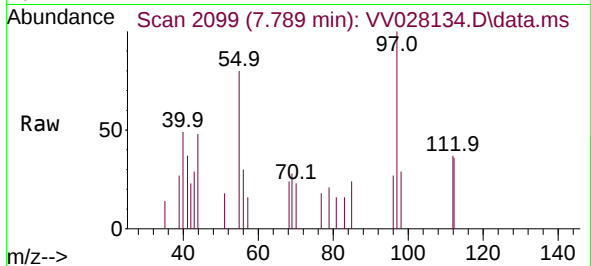




#45
1,1,2-Trichloroethane
Concen: 0.153 ug/L
RT: 7.789 min Scan# 2099
Delta R.T. -0.045 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

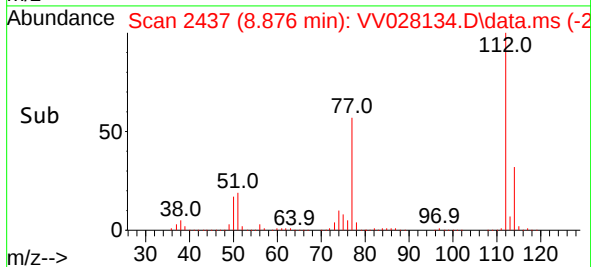
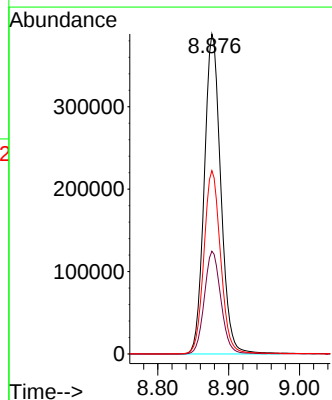
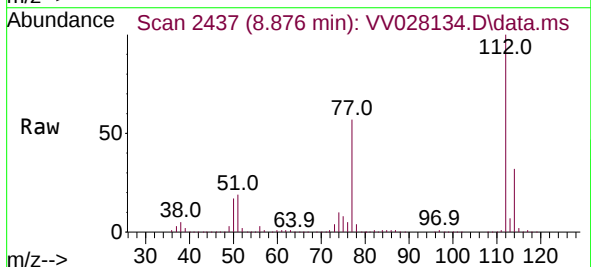
Instrument :
MSVOA_V
ClientSampleId :
CB8L4

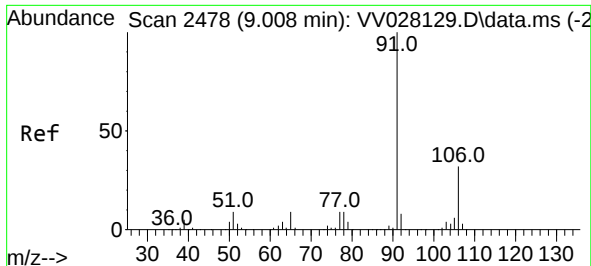
Tgt Ion: 97 Resp: 1485
Ion Ratio Lower Upper
97 100
99 0.0 43.2 80.2#
83 15.8 59.1 109.9#
85 24.1 38.5 71.5#



#51
Chlorobenzene
Concen: 17.442 ug/L
RT: 8.876 min Scan# 2437
Delta R.T. -0.003 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

Tgt Ion: 112 Resp: 630212
Ion Ratio Lower Upper
112 100
114 32.1 22.5 41.7
77 57.3 46.1 69.1





#52

Ethylbenzene

Concen: 0.041 ug/L

RT: 9.018 min Scan# 2478

Delta R.T. 0.010 min

Lab File: VV028134.D

Acq: 27 Sep 2022 13:04

Instrument :

MSVOA_V

ClientSampleId :

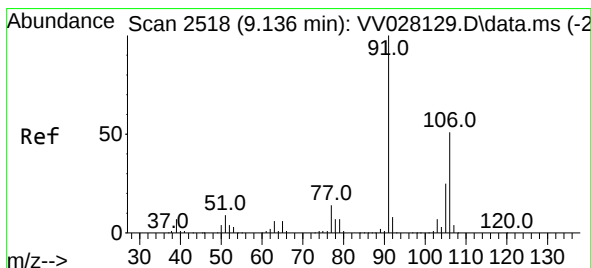
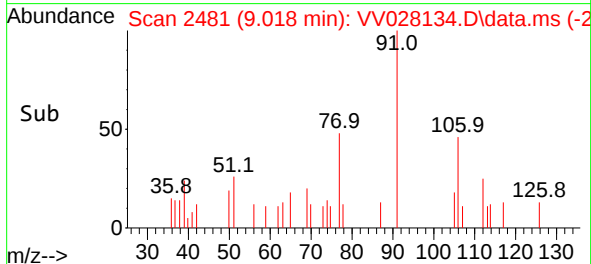
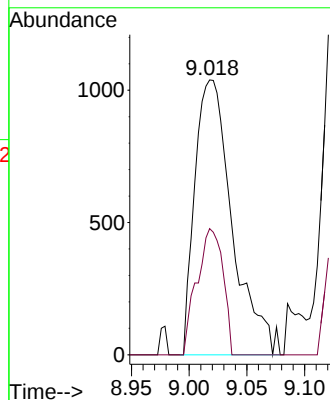
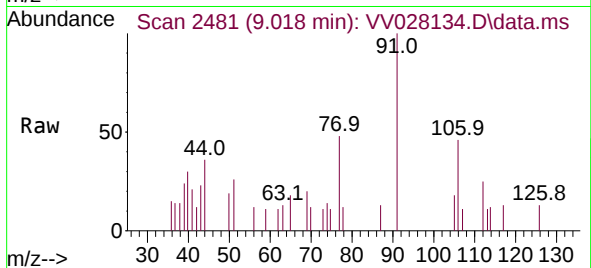
CB8L4

Tgt Ion: 91 Resp: 2345

Ion Ratio Lower Upper

91 100

106 45.9 21.5 39.9#



#53

m,p-Xylene

Concen: 0.173 ug/L

RT: 9.140 min Scan# 2519

Delta R.T. 0.003 min

Lab File: VV028134.D

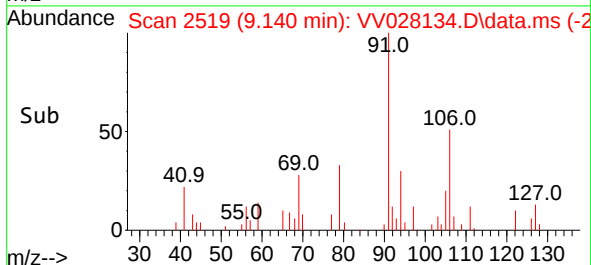
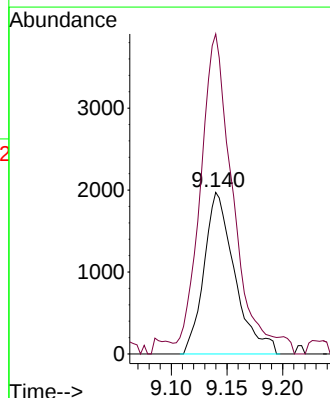
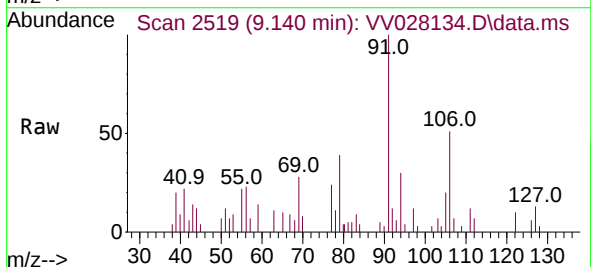
Acq: 27 Sep 2022 13:04

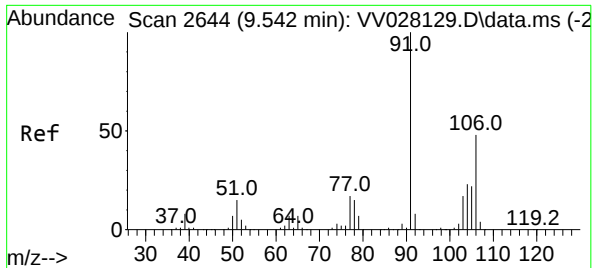
Tgt Ion: 106 Resp: 3781

Ion Ratio Lower Upper

106 100

91 197.9 141.9 263.5

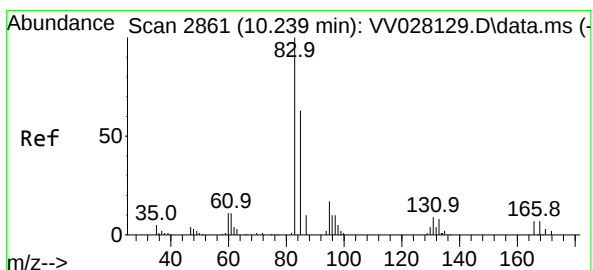
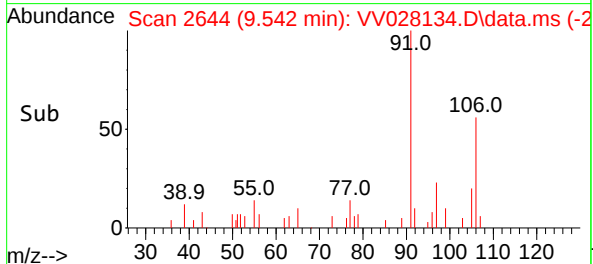
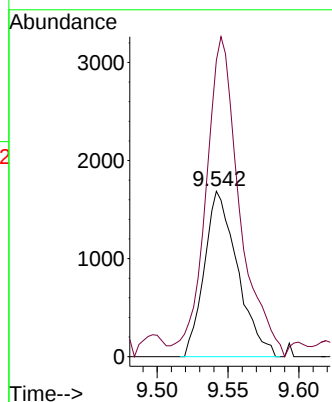
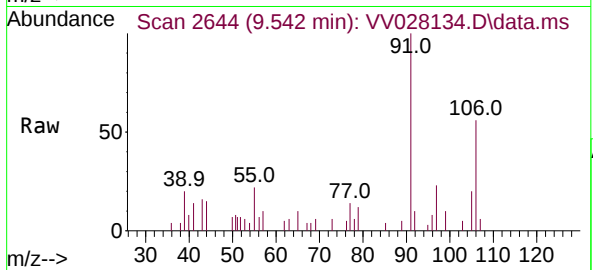




#54
o-Xylene
Concen: 0.127 ug/L
RT: 9.542 min Scan# 210
Delta R.T. 0.000 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

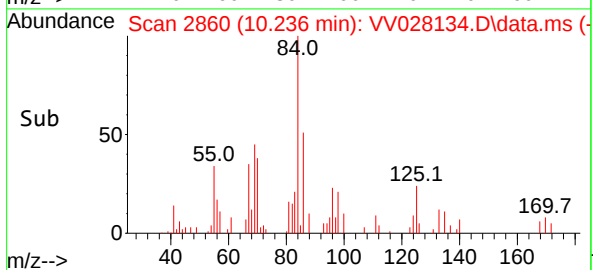
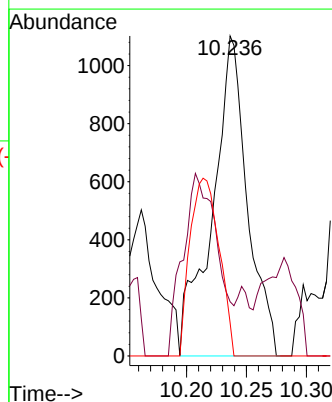
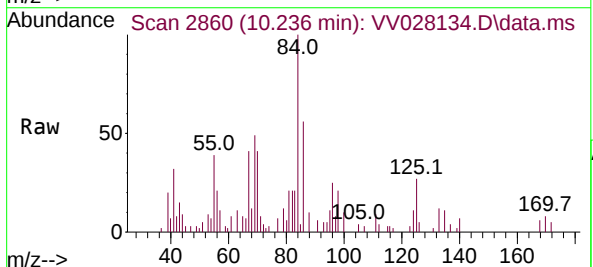
Instrument :
MSVOA_V
ClientSampleId :
CB8L4

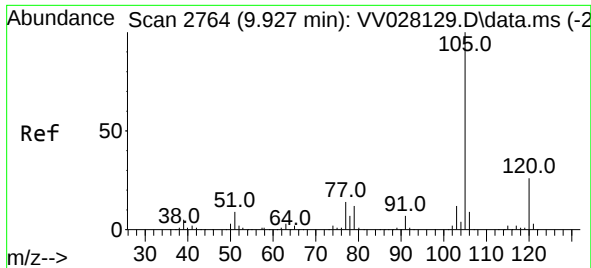
Tgt Ion:106 Resp: 2745
Ion Ratio Lower Upper
106 100
91 179.1 148.1 275.0



#57
1,1,2,2-Tetrachloroethane
Concen: 0.197 ug/L
RT: 10.236 min Scan# 2860
Delta R.T. -0.003 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

Tgt Ion: 83 Resp: 2224
Ion Ratio Lower Upper
83 100
85 17.0 45.2 84.0#
131 10.3 7.8 11.8

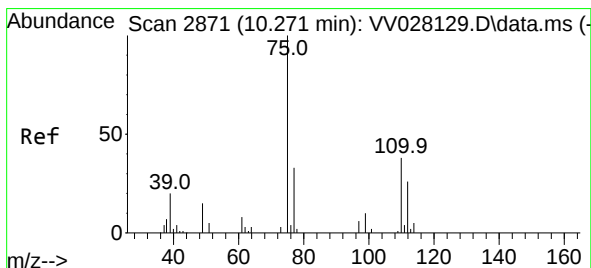
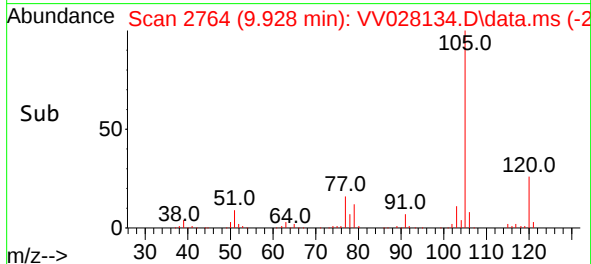
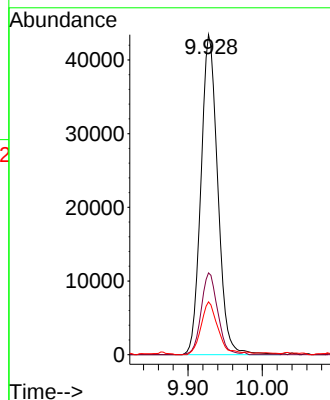
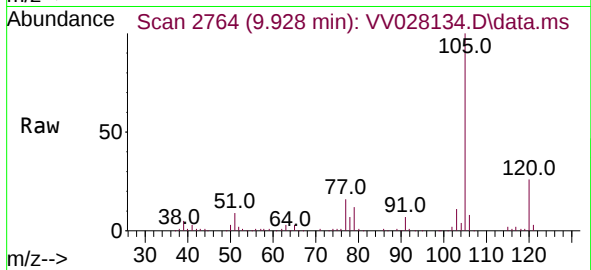




#60
Isopropylbenzene
Concen: 1.147 ug/L
RT: 9.928 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

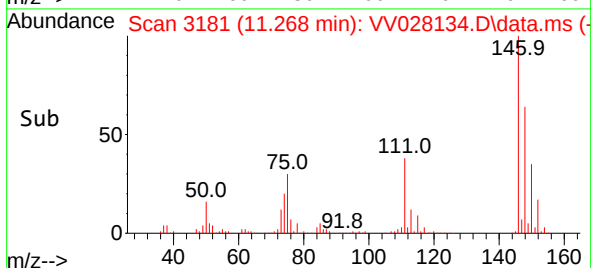
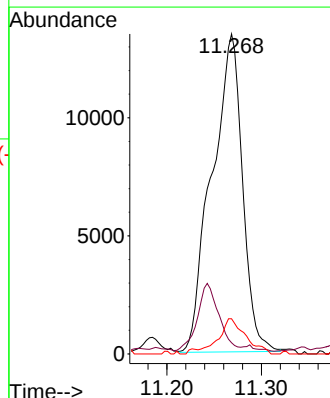
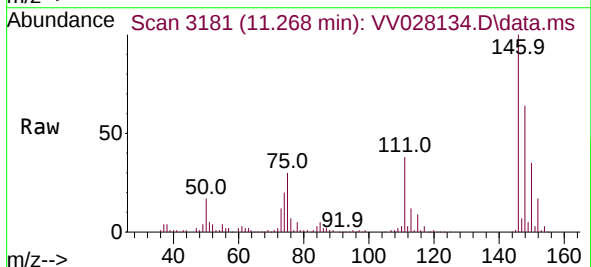
Instrument :
MSVOA_V
ClientSampleId :
CB8L4

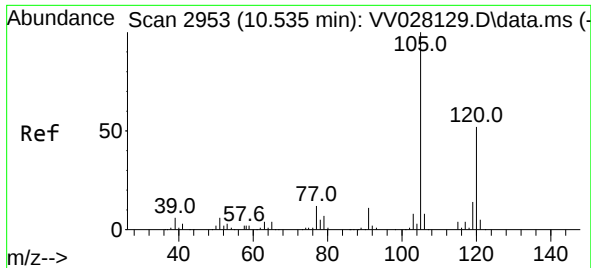
Tgt Ion:105 Resp: 68295
Ion Ratio Lower Upper
105 100
120 25.0 21.4 32.0
77 16.6 12.2 18.4



#61
1,2,3-Trichloropropane
Concen: 3.566 ug/L
RT: 11.268 min Scan# 3181
Delta R.T. 0.997 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

Tgt Ion: 75 Resp: 30328
Ion Ratio Lower Upper
75 100
77 0.0 26.7 40.1#
110 9.6 30.1 45.1#

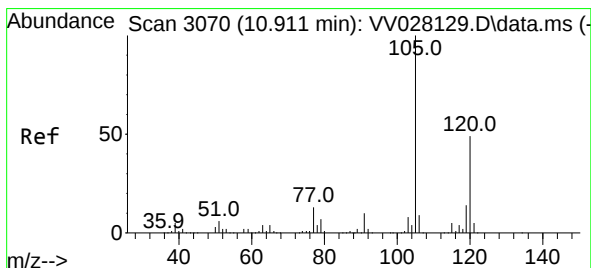
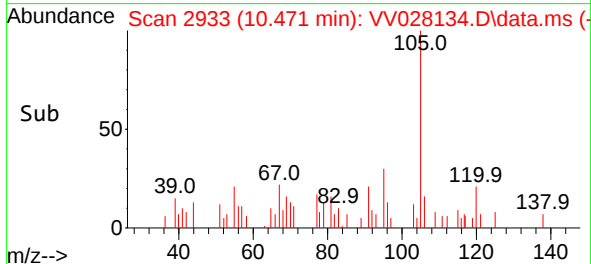
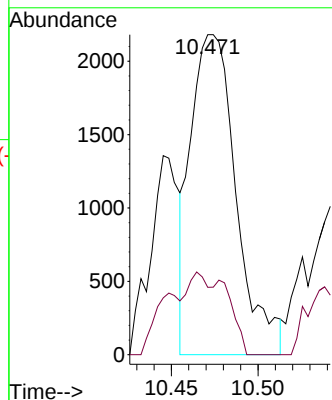
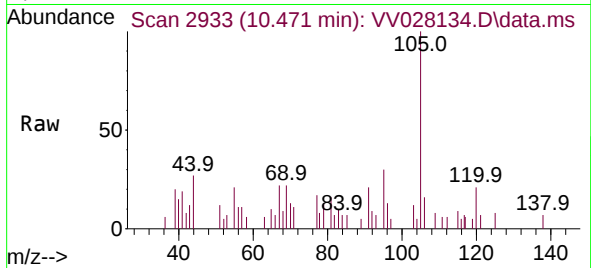




#62
1,3,5-Trimethylbenzene
Concen: 0.238 ug/L
RT: 10.471 min Scan# 2953
Delta R.T. -0.064 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

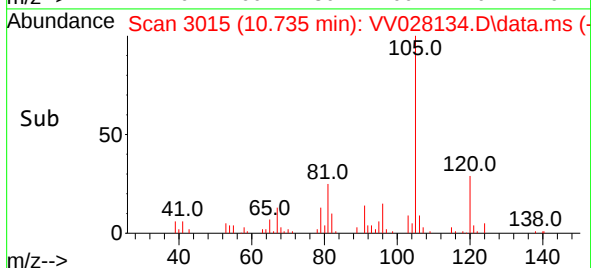
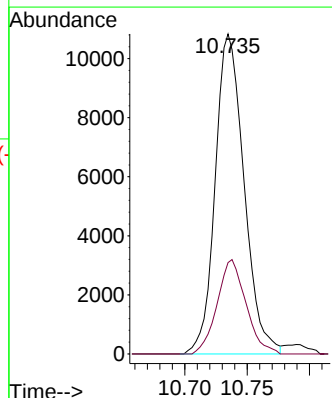
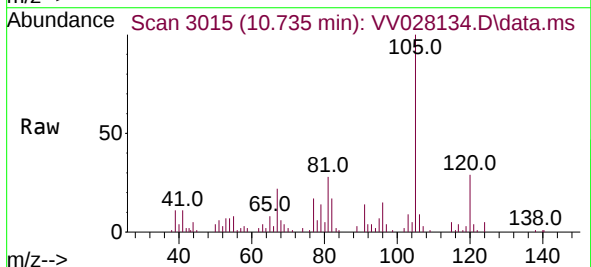
Instrument :
MSVOA_V
ClientSampleId :
CB8L4

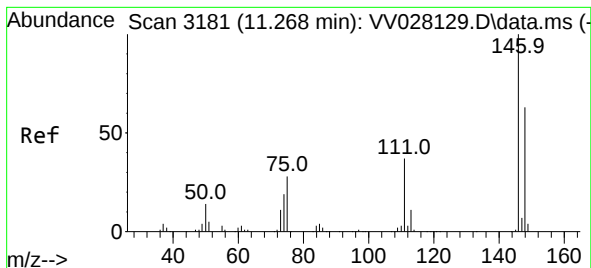
Tgt Ion:105 Resp: 3984
Ion Ratio Lower Upper
105 100
120 19.5 40.6 61.0#



#63
1,2,4-Trimethylbenzene
Concen: 0.372 ug/L
RT: 10.735 min Scan# 3015
Delta R.T. -0.177 min
Lab File: VV028134.D
Acq: 27 Sep 2022 13:04

Tgt Ion:105 Resp: 17447
Ion Ratio Lower Upper
105 100
120 29.5 37.8 56.8#





#65

1,4-Dichlorobenzene

Concen: 2.454 ug/L

RT: 11.268 min Scan# 3181

Delta R.T. 0.000 min

Lab File: VV028134.D

Acq: 27 Sep 2022 13:04

Instrument :

MSVOA_V

ClientSampleId :

CB8L4

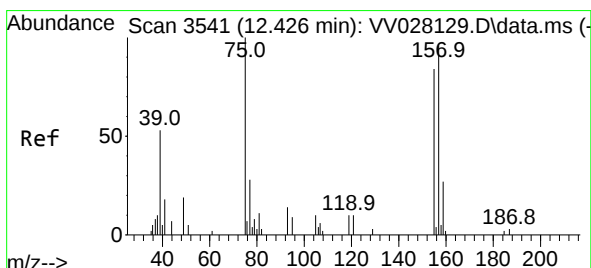
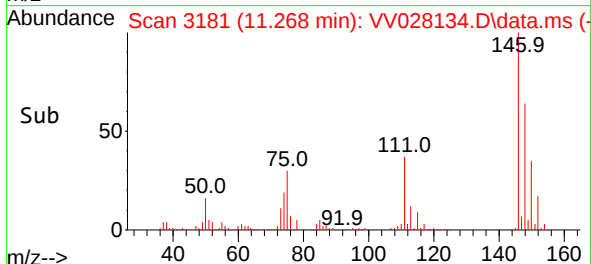
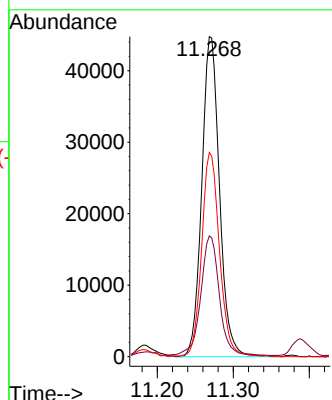
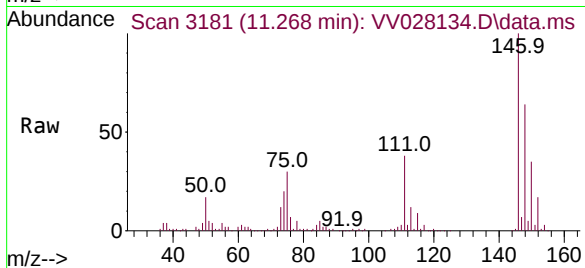
Tgt Ion:146 Resp: 72721

Ion Ratio Lower Upper

146 100

111 37.7 26.2 48.8

148 63.8 45.8 85.2



#68

1,2-Dibromo-3-chloropropane

Concen: 0.144 ug/L

RT: 12.413 min Scan# 3537

Delta R.T. -0.013 min

Lab File: VV028134.D

Acq: 27 Sep 2022 13:04

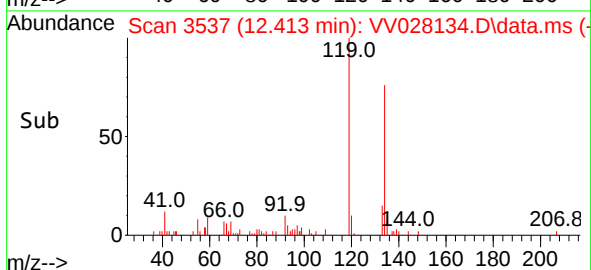
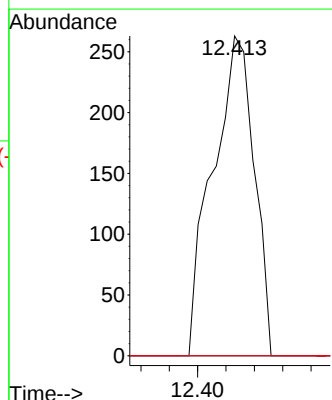
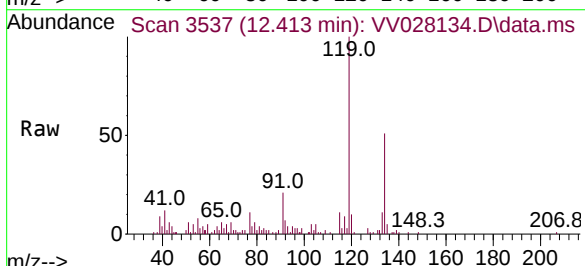
Tgt Ion: 75 Resp: 268

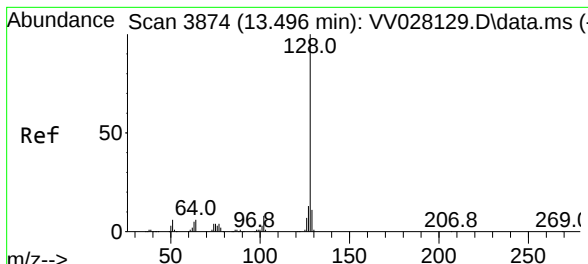
Ion Ratio Lower Upper

75 100

155 0.0 73.6 110.4#

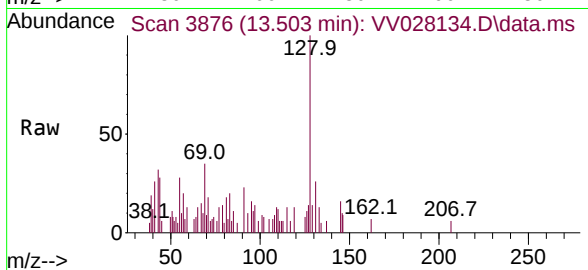
157 0.0 90.7 136.1#





#71
 Naphthalene
 Concen: 0.138 ug/L
 RT: 13.503 min Scan# 3876
 Delta R.T. 0.007 min
 Lab File: VV028134.D
 Acq: 27 Sep 2022 13:04

Instrument : MSVOA_V
 ClientSampleId : CB8L4



Tgt Ion:	128	Resp:	4233
Ion	Ratio	Lower	Upper
128	100		
129	12.8	8.2	12.2#
127	9.3	10.4	15.6#

