

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW060424\
 Data File : VW035967.D
 Acq On : 04 Jun 2024 10:47
 Operator : SY/MD
 Sample : P2695-16
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL/A
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 05 04:03:26 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM053024SMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jun 05 04:01:54 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	472558	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.779	117	464513	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.181	152	219833	25.000	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.272	65	181784	20.924	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.680%
7) Chloroethane-d5	1.526	69	148161	21.387	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.560%
11) 1,1-Dichloroethene-d2	2.050	65	80165	20.727	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	82.920%
21) 2-Butanone-d5	3.844	46	44774	22.462	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	44.920%
24) Chloroform-d	4.239	84	318217	21.181	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	84.720%
26) 1,2-Dichloroethane-d4	4.934	65	158405	20.110	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	80.440%
32) Benzene-d6	4.950	84	595967	21.584	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	86.320%
36) 1,2-Dichloropropane-d6	5.982	67	190687	21.930	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	87.720%
41) Toluene-d8	7.236	98	573637	23.546	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.200%
43) trans-1,3-Dichloroprop...	7.551	79	74677	20.946	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	83.800%
47) 2-Hexanone-d5	8.030	63	45557	38.670	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	77.340%
56) 1,1,2,2-Tetrachloroeth...	10.149	84	128844	19.829	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	79.320%
66) 1,2-Dichlorobenzene-d4	11.557	152	183170	22.721	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.880%

Target Compounds

						Qvalue
13) Acetone	2.150	43	630325	203.001	ug/L #	39
16) Methylene chloride	2.439	84	452423	42.310	ug/L	99
17) trans-1,2-Dichloroethene	2.683	96	352419	43.841	ug/L	99
18) Methyl tert-butyl Ether	2.699	73	390790	21.655	ug/L	100
19) 1,1-Dichloroethane	3.101	63	903104	58.994	ug/L	99
20) cis-1,2-Dichloroethene	3.802	96	611787	75.742	ug/L	99
22) 2-Butanone	3.902	43	147210	55.874	ug/L #	70
25) Chloroform	4.265	83	484622	30.775	ug/L	100
30) 1,1,1-Trichloroethane	4.506	97	6083	0.479	ug/L #	90
31) Carbon tetrachloride	4.725	117	170886	15.339	ug/L	100
33) Benzene	4.998	78	2520379	82.960	ug/L	100
34) Trichloroethene	5.821	95	892635	95.867	ug/L	100
38) Bromodichloromethane	6.426	83	654194	61.958	ug/L	99
39) cis-1,3-Dichloropropene	6.947	75	915637	76.742	ug/L	100
40) 4-Methyl-2-pentanone	7.153	43	1171774	270.362	ug/L	96
42) Toluene	7.310	91	1221827	39.359	ug/L	99
45) 1,1,2-Trichloroethane	7.763	97	296247	44.882	ug/L	99
46) Tetrachloroethene	7.898	164	269896	39.633	ug/L	99
48) 2-Hexanone	8.030	43	5650	1.667	ug/L #	69

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Quant Title : VOC Analysis
QLast Update : Wed Jun 05 04:01:54 2024
Response via : Initial Calibration

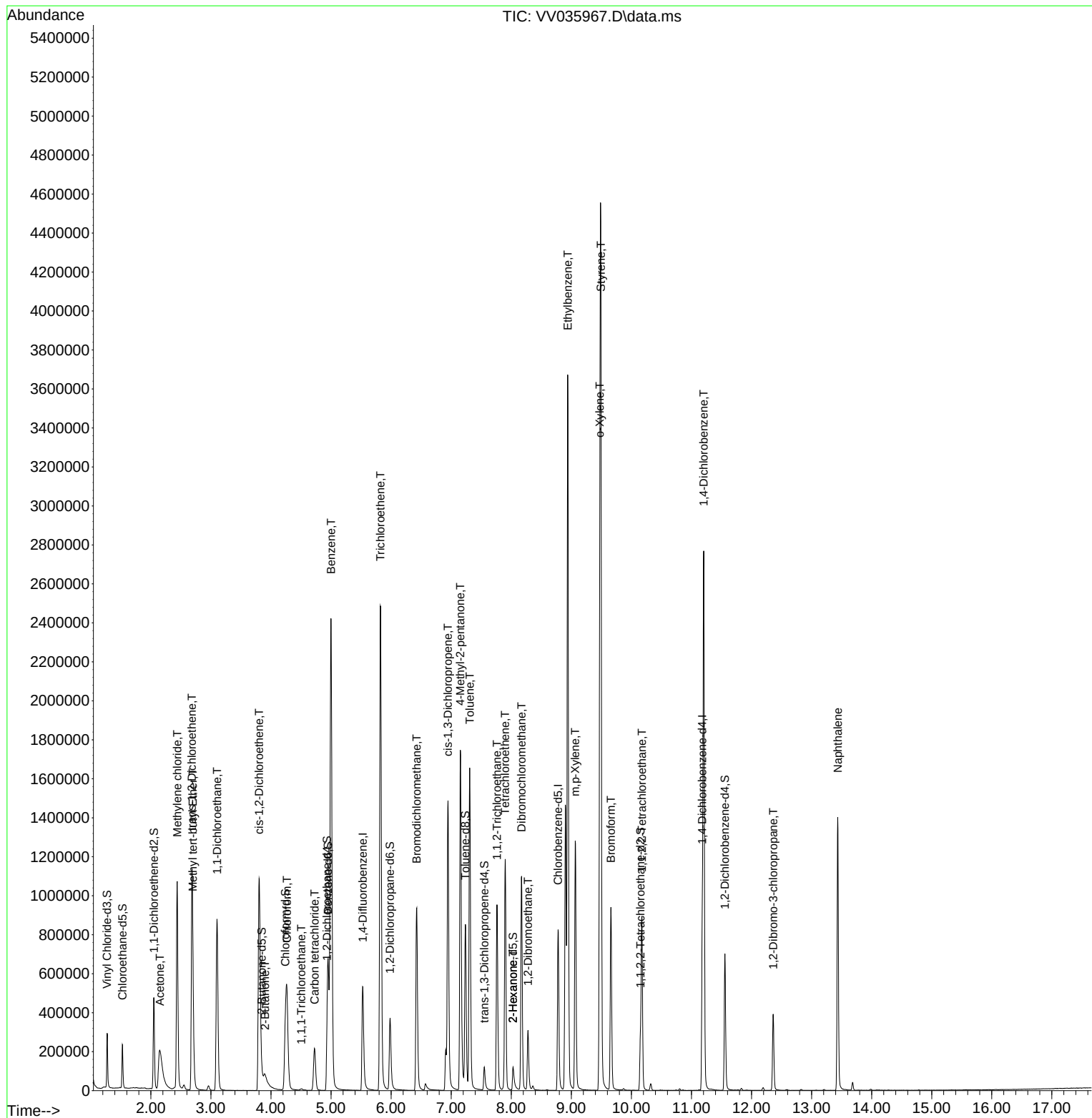
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.172	129	566887	78.473	ug/L	99
50) 1,2-Dibromoethane	8.278	107	210147	33.181	ug/L	99
52) Ethylbenzene	8.940	91	2400488	72.275	ug/L	100
53) m,p-Xylene	9.066	106	353379	28.316	ug/L	99
54) o-Xylene	9.474	106	545445	46.346	ug/L	100
55) Styrene	9.490	104	1858239	89.537	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.175	83	436556	73.864	ug/L	100
59) Bromoform	9.660	173	419611	101.215	ug/L	100
65) 1,4-Dichlorobenzene	11.204	146	1070151	70.001	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.361	75	103358	88.901	ug/L	96
71) Naphthalene	13.435	128	1069778	75.145	ug/L	100

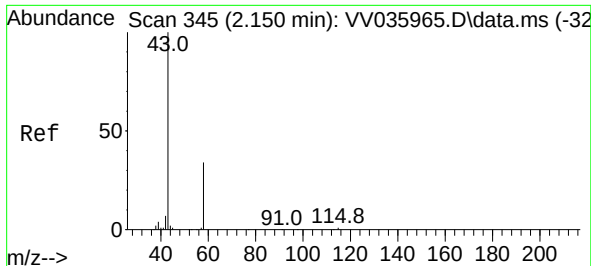
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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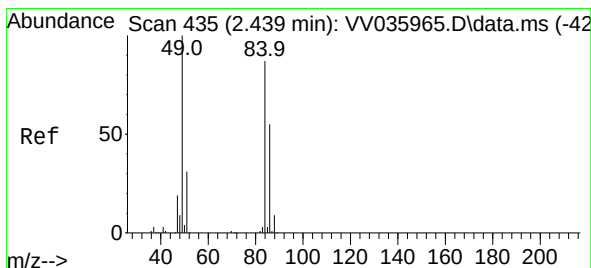
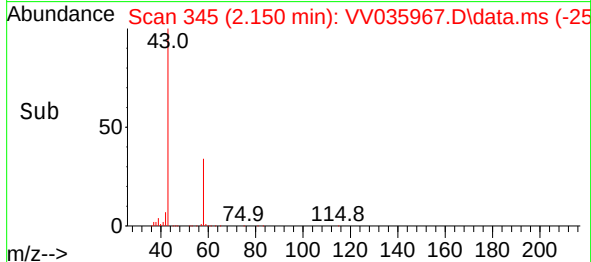
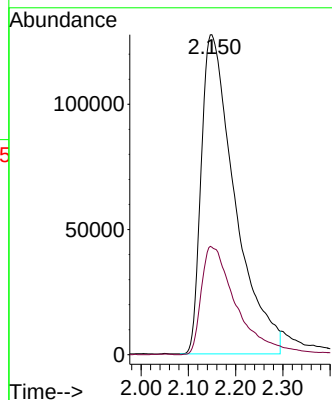
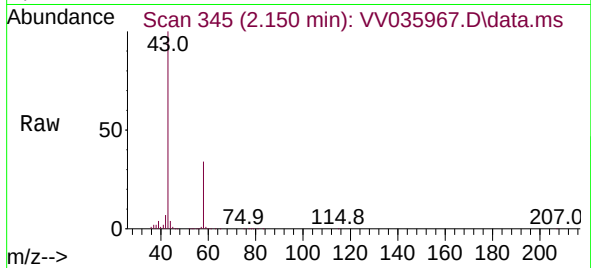




#13
Acetone
Concen: 203.001 ug/L
RT: 2.150 min Scan# 345
Delta R.T. -0.000 min
Lab File: VV035967.D
Acq: 04 Jun 2024 10:47

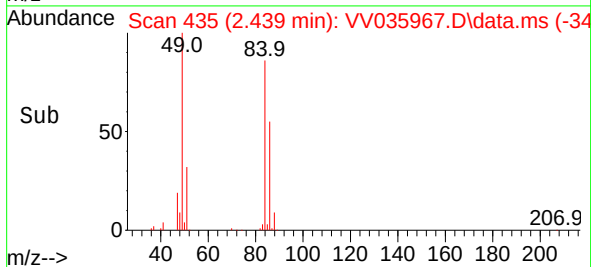
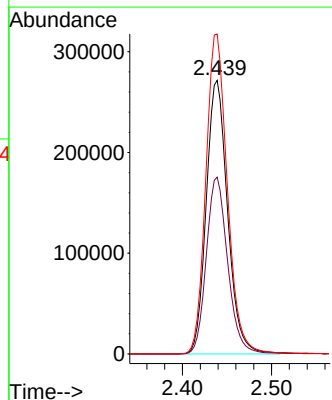
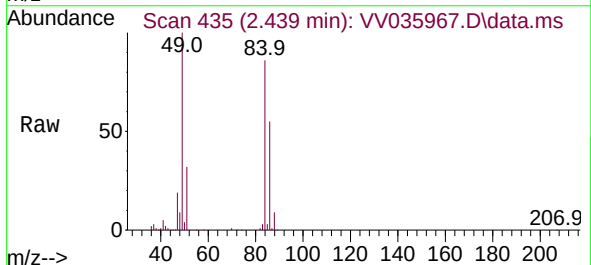
Instrument :
MSVOA_V
ClientSampleId :

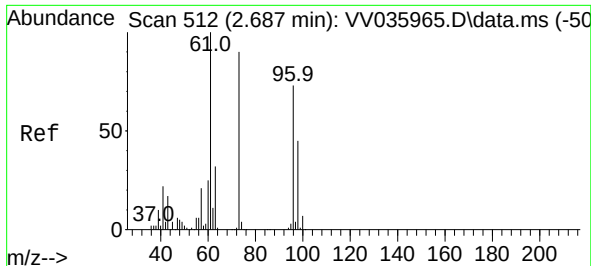
Tgt Ion: 43 Resp: 630325
Ion Ratio Lower Upper
43 100
58 35.8 0.0 24.2#



#16
Methylene chloride
Concen: 42.310 ug/L
RT: 2.439 min Scan# 435
Delta R.T. -0.000 min
Lab File: VV035967.D
Acq: 04 Jun 2024 10:47

Tgt Ion: 84 Resp: 452423
Ion Ratio Lower Upper
84 100
86 64.6 44.6 82.8
49 116.9 81.1 150.5

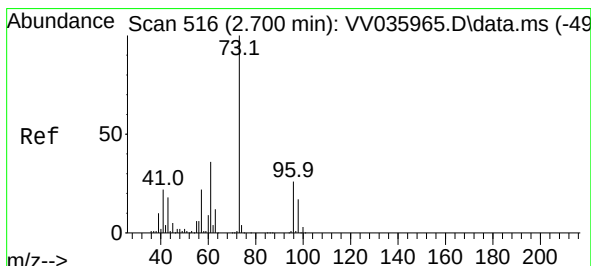
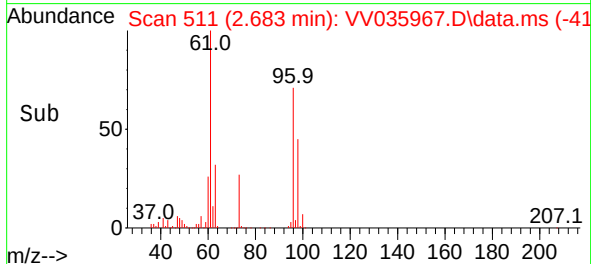
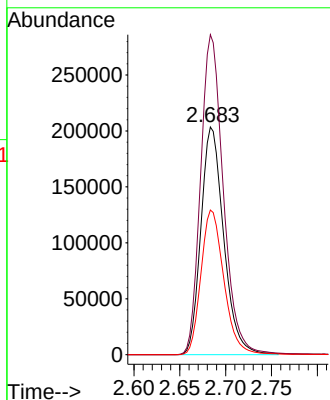
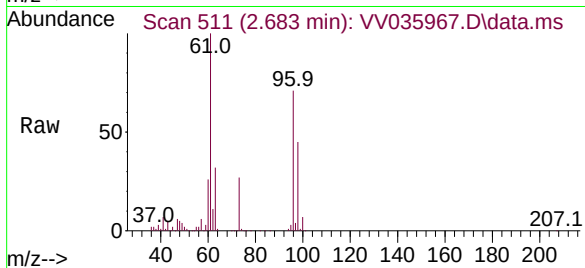




#17
trans-1,2-Dichloroethene
Concen: 43.841 ug/L
RT: 2.683 min Scan# 512
Delta R.T. -0.003 min
Lab File: VV035967.D
Acq: 04 Jun 2024 10:47

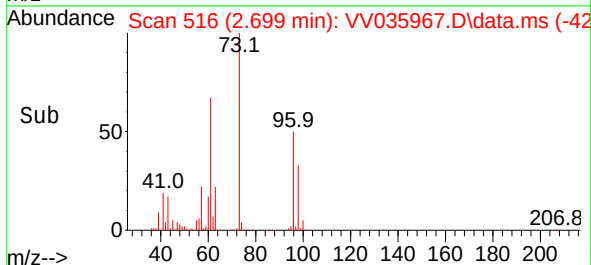
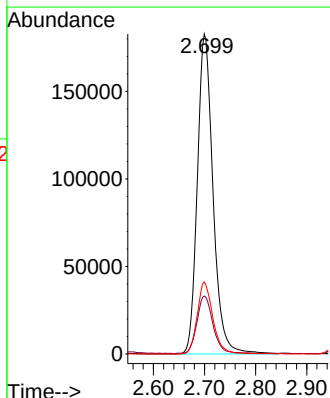
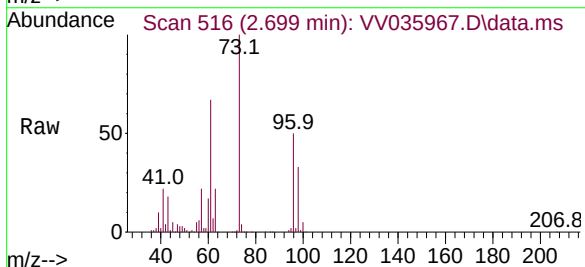
Instrument :
MSVOA_V
ClientSampleId :

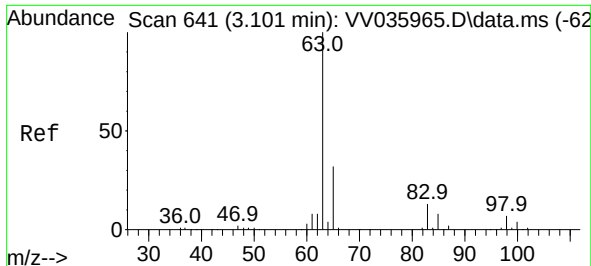
Tgt Ion: 96 Resp: 352419
Ion Ratio Lower Upper
96 100
61 140.6 99.4 184.6
98 63.5 44.9 83.3



#18
Methyl tert-butyl Ether
Concen: 21.655 ug/L
RT: 2.699 min Scan# 516
Delta R.T. -0.000 min
Lab File: VV035967.D
Acq: 04 Jun 2024 10:47

Tgt Ion: 73 Resp: 390790
Ion Ratio Lower Upper
73 100
43 18.3 14.3 21.5
57 22.2 17.8 26.6





#19

1,1-Dichloroethane

Concen: 58.994 ug/L

RT: 3.101 min Scan# 641

Delta R.T. -0.000 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Instrument :

MSVOA_V

ClientSampleId :

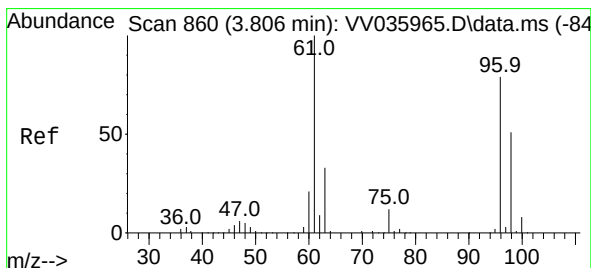
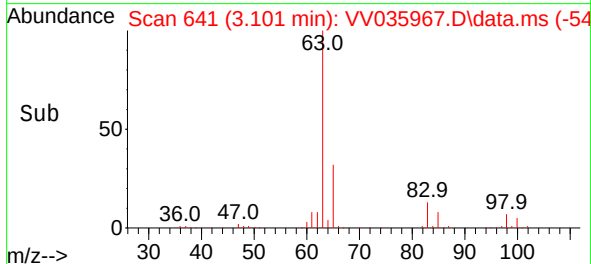
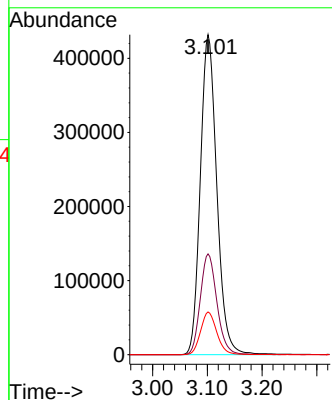
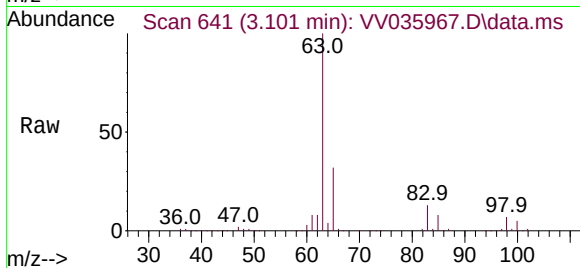
Tgt Ion: 63 Resp: 903104

Ion Ratio Lower Upper

63 100

65 31.5 22.4 41.6

83 13.3 9.2 17.0



#20

cis-1,2-Dichloroethene

Concen: 75.742 ug/L

RT: 3.802 min Scan# 859

Delta R.T. -0.003 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

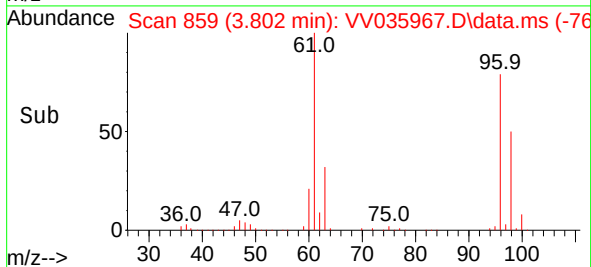
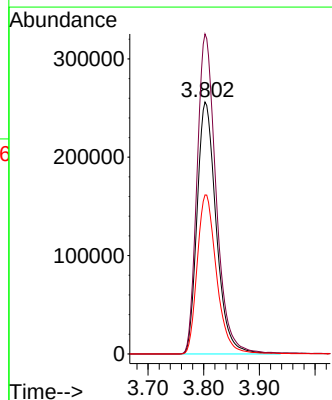
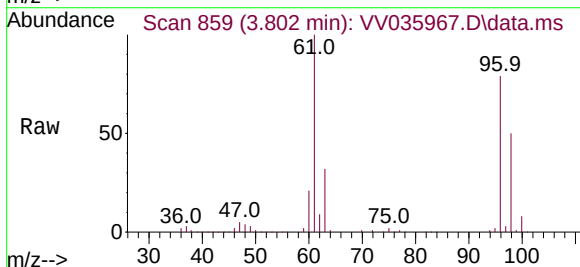
Tgt Ion: 96 Resp: 611787

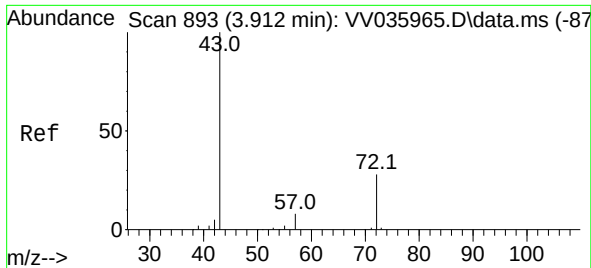
Ion Ratio Lower Upper

96 100

61 126.9 87.9 163.3

98 63.1 44.4 82.5

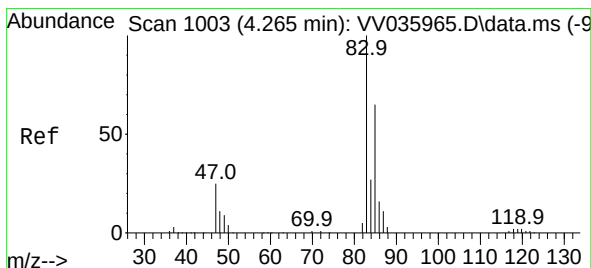
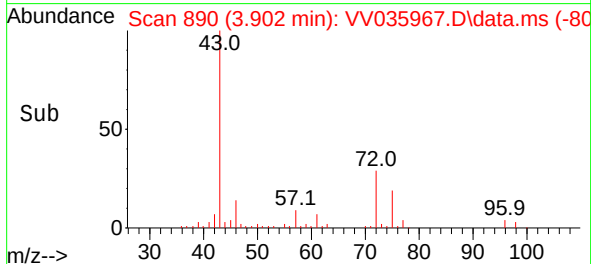
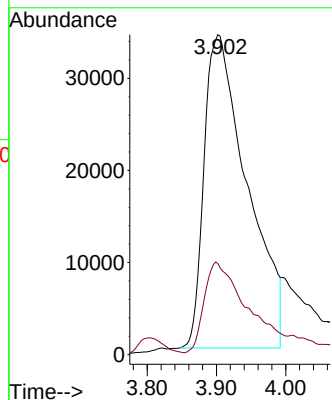
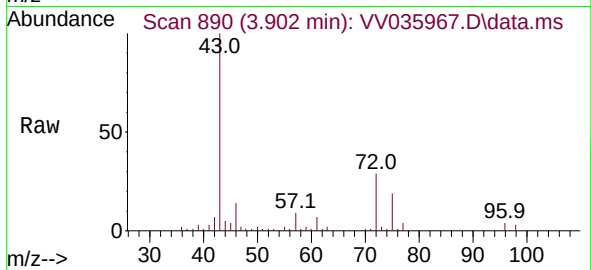




#22
2-Butanone
Concen: 55.874 ug/L
RT: 3.902 min Scan# 893
Delta R.T. -0.010 min
Lab File: VV035967.D
Acq: 04 Jun 2024 10:47

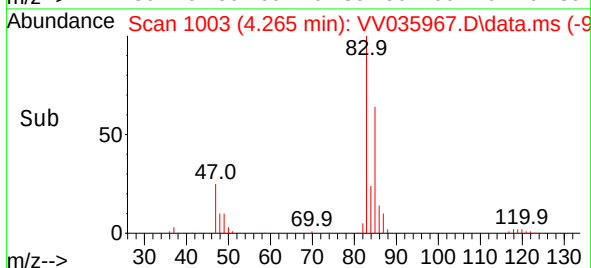
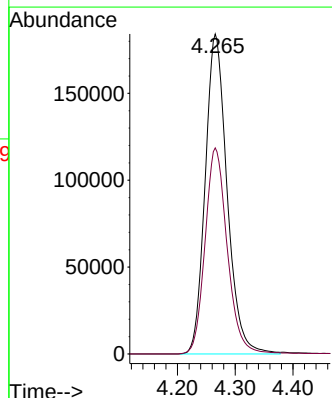
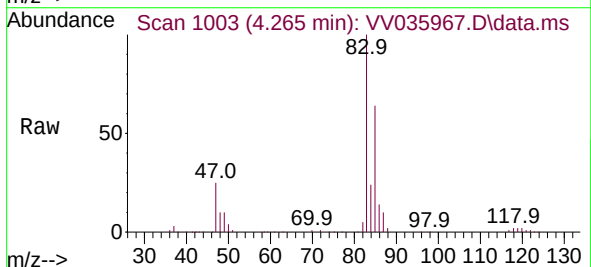
Instrument :
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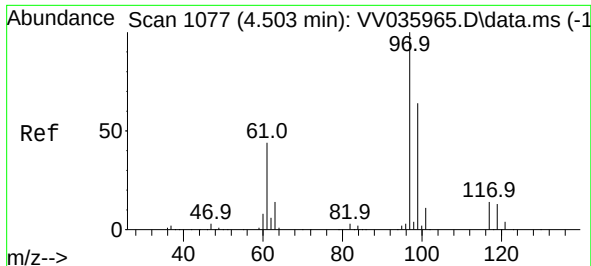
Tgt Ion: 43 Resp: 147210
Ion Ratio Lower Upper
43 100
72 29.1 8.2 24.4#



#25
Chloroform
Concen: 30.775 ug/L
RT: 4.265 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VV035967.D
Acq: 04 Jun 2024 10:47

Tgt Ion: 83 Resp: 484622
Ion Ratio Lower Upper
83 100
85 64.4 45.2 84.0





#30

1,1,1-Trichloroethane

Concen: 0.479 ug/L

RT: 4.506 min Scan# 1107

Delta R.T. 0.003 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Instrument :

MSVOA_V

ClientSampleId :

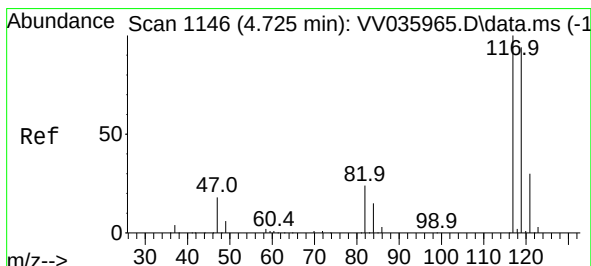
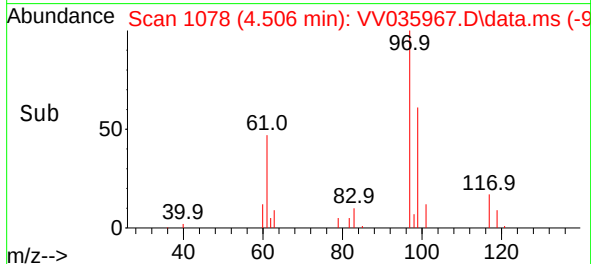
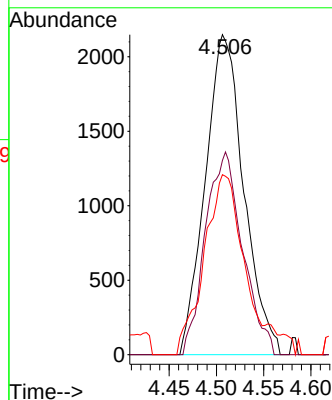
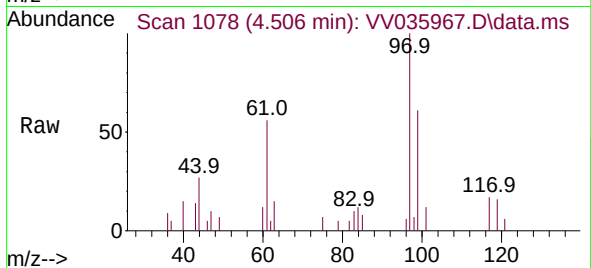
Tgt Ion: 97 Resp: 6083

Ion Ratio Lower Upper

97 100

99 61.2 50.9 76.3

61 56.1 35.0 52.6#



#31

Carbon tetrachloride

Concen: 15.339 ug/L

RT: 4.725 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VV035967.D

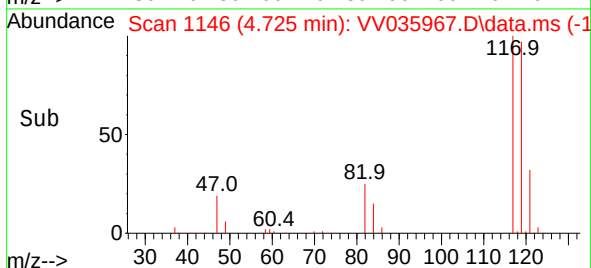
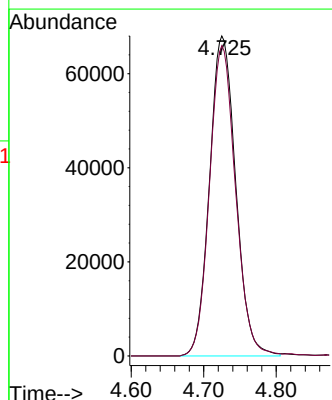
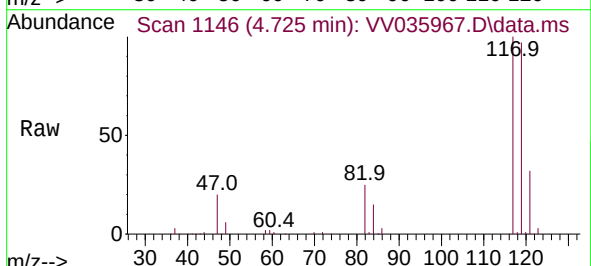
Acq: 04 Jun 2024 10:47

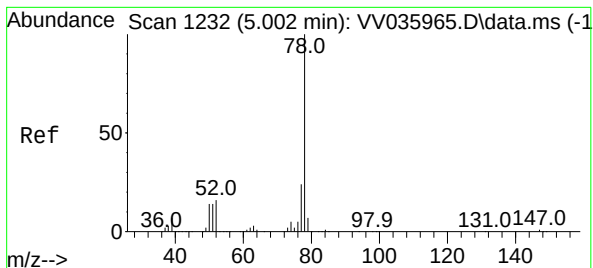
Tgt Ion: 117 Resp: 170886

Ion Ratio Lower Upper

117 100

119 96.4 76.8 115.2





#33

Benzene

Concen: 82.960 ug/L

RT: 4.998 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV035967.D

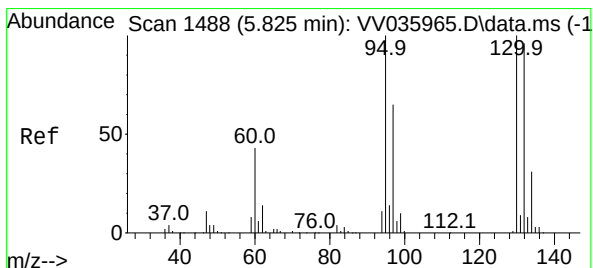
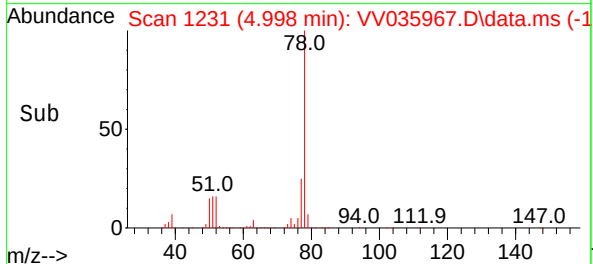
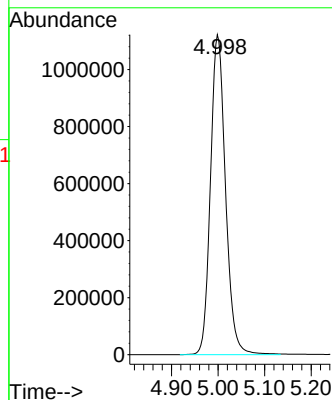
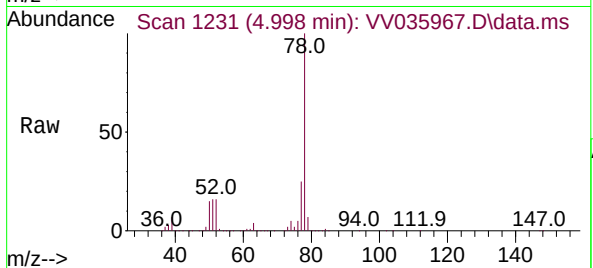
Acq: 04 Jun 2024 10:47

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 2520379



#34

Trichloroethene

Concen: 95.867 ug/L

RT: 5.821 min Scan# 1487

Delta R.T. -0.003 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Tgt Ion: 95 Resp: 892635

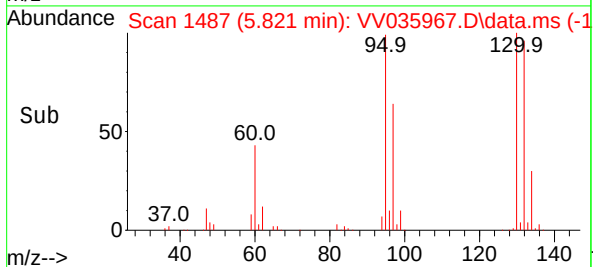
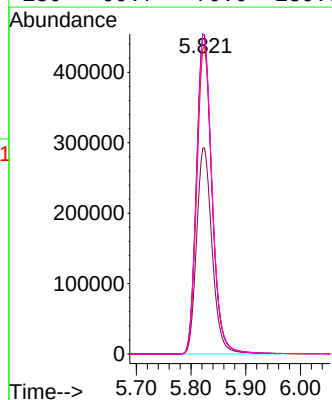
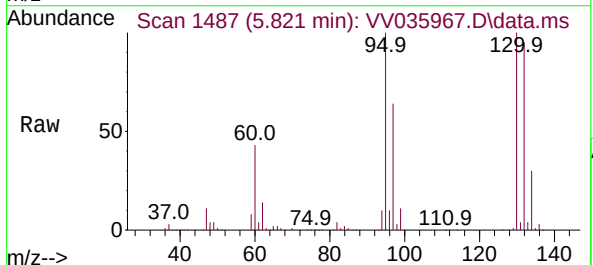
Ion Ratio Lower Upper

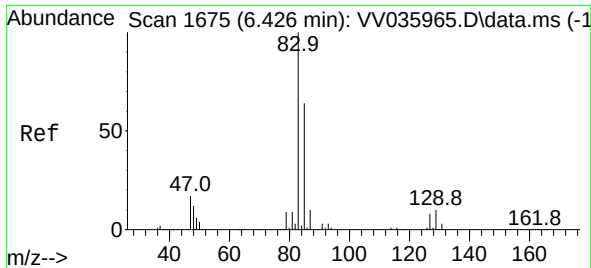
95 100

97 64.3 44.8 83.2

132 95.3 66.8 124.2

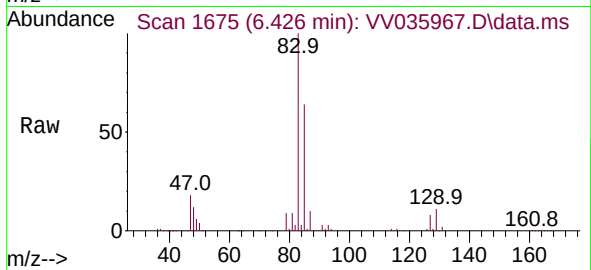
130 99.7 70.0 130.0



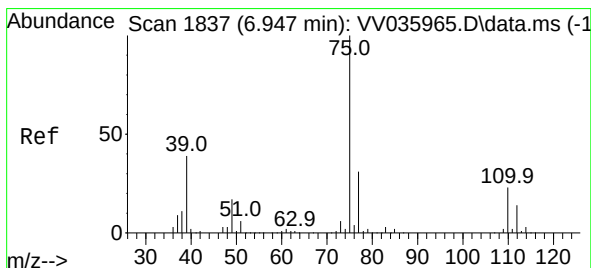
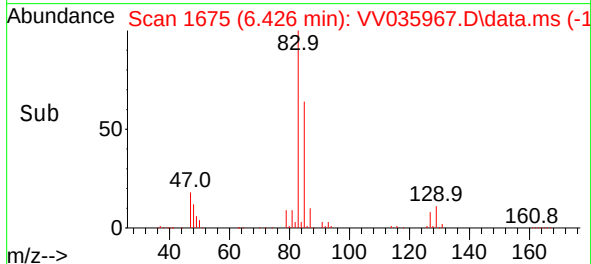
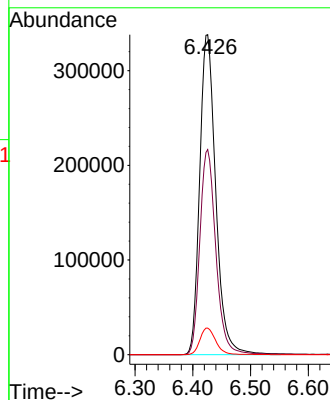


#38
Bromodichloromethane
Concen: 61.958 ug/L
RT: 6.426 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV035967.D
Acq: 04 Jun 2024 10:47

Instrument :
MSVOA_V
ClientSampleId :

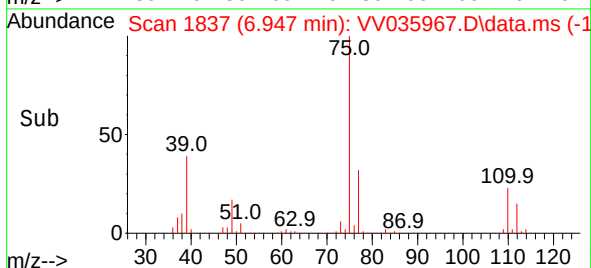
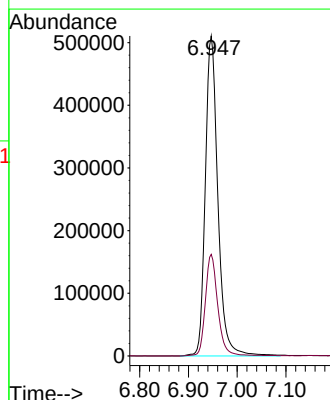
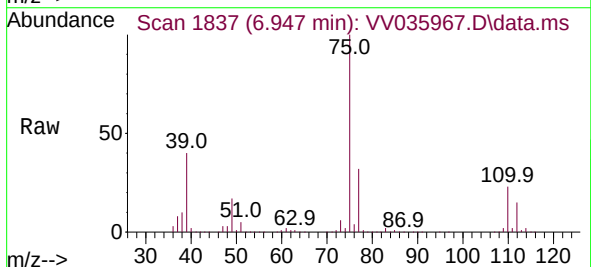


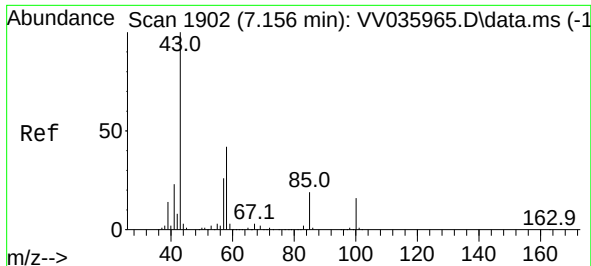
Tgt Ion: 83 Resp: 654194
Ion Ratio Lower Upper
83 100
85 64.1 45.3 84.1
127 8.3 6.7 10.1



#39
cis-1,3-Dichloropropene
Concen: 76.742 ug/L
RT: 6.947 min Scan# 1837
Delta R.T. -0.000 min
Lab File: VV035967.D
Acq: 04 Jun 2024 10:47

Tgt Ion: 75 Resp: 915637
Ion Ratio Lower Upper
75 100
77 31.8 22.1 41.1





#40

4-Methyl-2-pentanone

Concen: 270.362 ug/L

RT: 7.153 min Scan# 1902

Delta R.T. -0.003 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Instrument :

MSVOA_V

ClientSampleId :

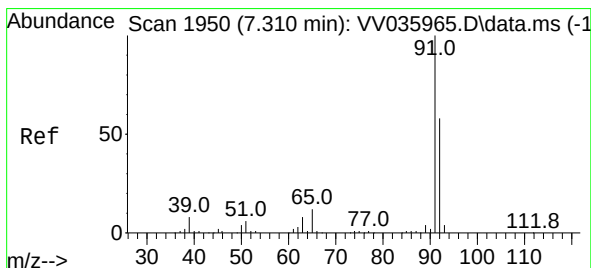
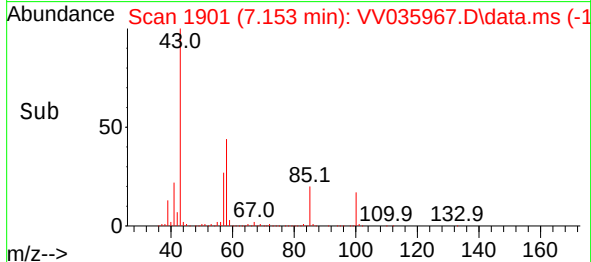
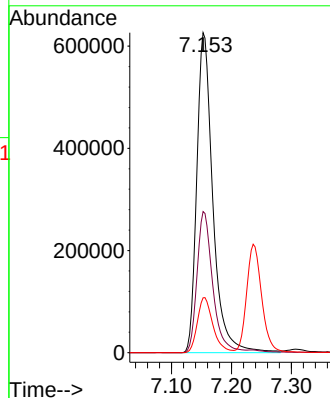
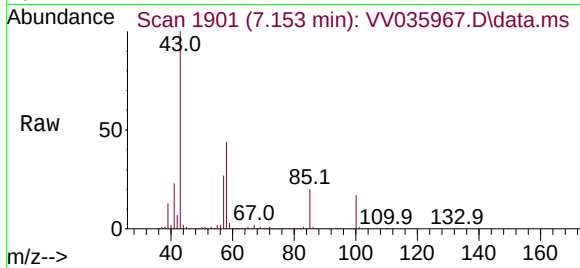
Tgt Ion: 43 Resp: 1171774

Ion Ratio Lower Upper

43 100

58 43.0 32.5 48.7

100 16.7 12.5 18.7



#42

Toluene

Concen: 39.359 ug/L

RT: 7.310 min Scan# 1950

Delta R.T. -0.000 min

Lab File: VV035967.D

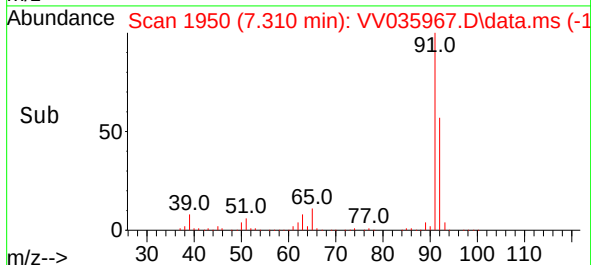
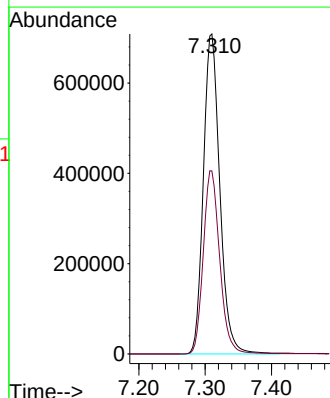
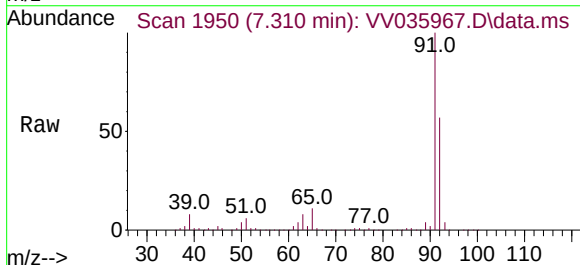
Acq: 04 Jun 2024 10:47

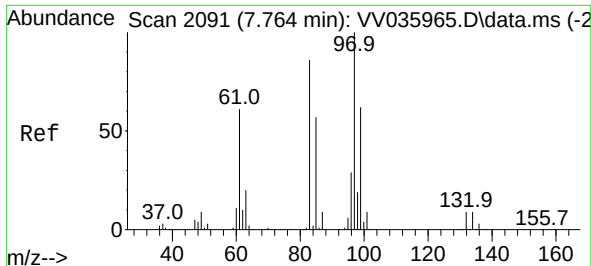
Tgt Ion: 91 Resp: 1221827

Ion Ratio Lower Upper

91 100

92 57.2 40.6 75.4





#45

1,1,2-Trichloroethane

Concen: 44.882 ug/L

RT: 7.763 min Scan# 2091

Delta R.T. -0.000 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 97 Resp: 296247

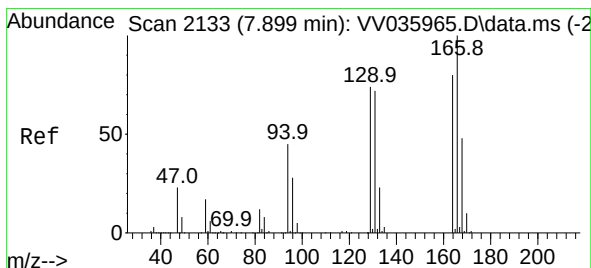
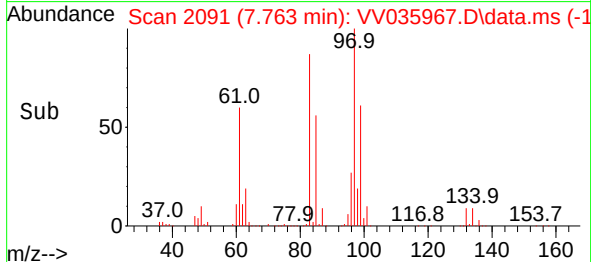
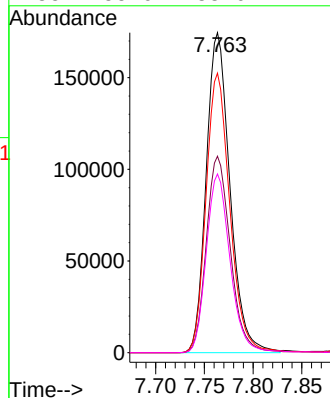
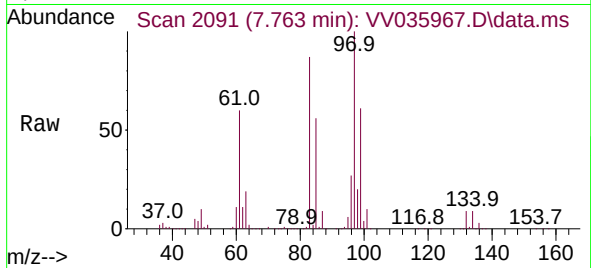
Ion Ratio Lower Upper

97 100

99 61.4 43.3 80.5

83 87.3 60.1 111.7

85 55.9 38.9 72.3



#46

Tetrachloroethene

Concen: 39.633 ug/L

RT: 7.898 min Scan# 2133

Delta R.T. -0.000 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Tgt Ion:164 Resp: 269896

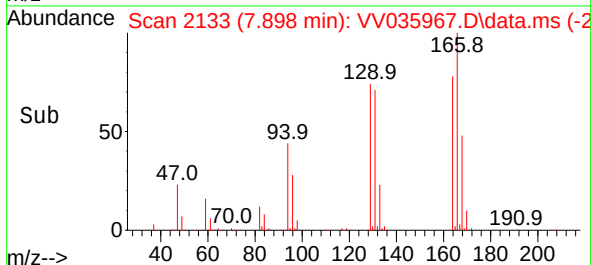
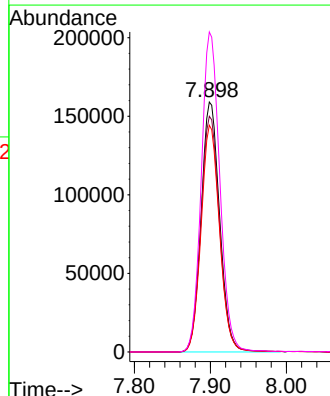
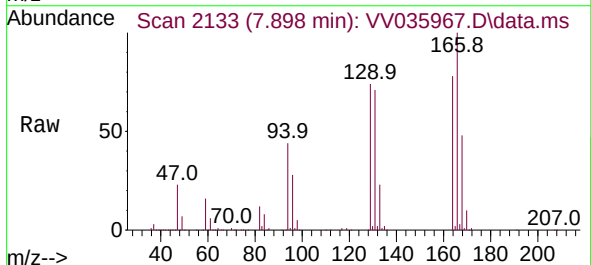
Ion Ratio Lower Upper

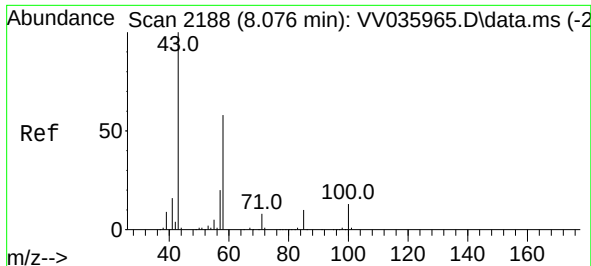
164 100

129 94.3 64.6 120.0

131 90.7 63.2 117.4

166 128.0 89.5 166.3





#48

2-Hexanone

Concen: 1.667 ug/L

RT: 8.030 min Scan# 2188

Delta R.T. -0.045 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 43 Resp: 5650

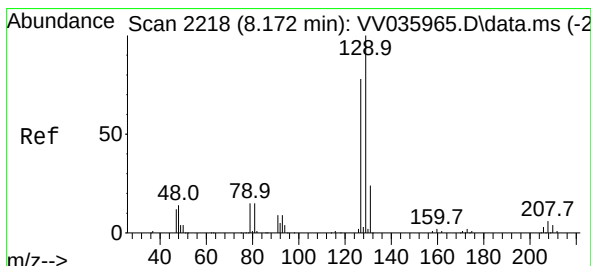
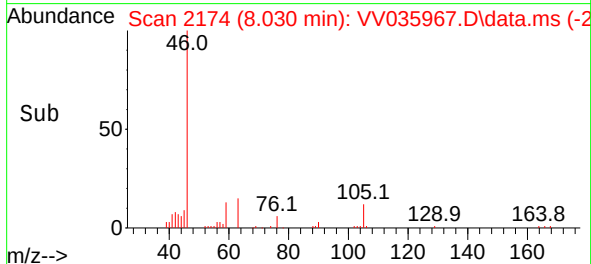
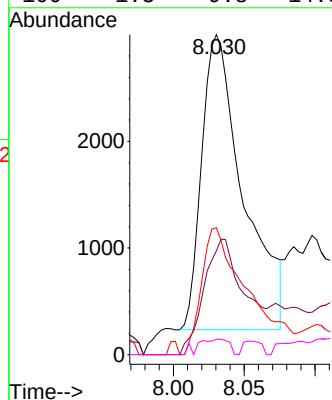
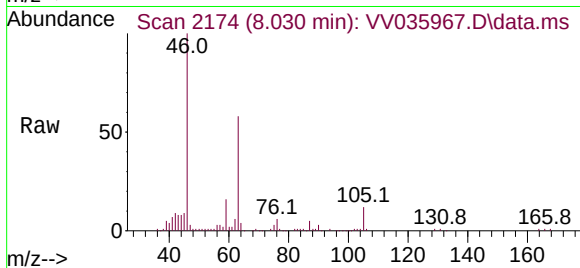
Ion Ratio Lower Upper

43 100

58 39.2 45.4 68.0#

57 44.2 15.8 23.8#

100 1.3 9.8 14.8#



#49

Dibromochloromethane

Concen: 78.473 ug/L

RT: 8.172 min Scan# 2218

Delta R.T. -0.000 min

Lab File: VV035967.D

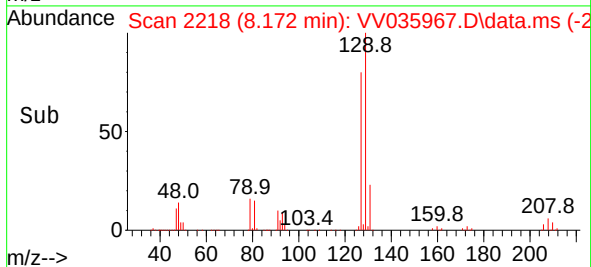
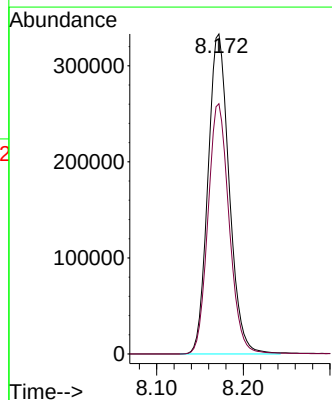
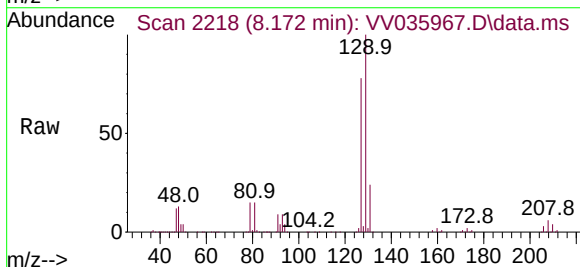
Acq: 04 Jun 2024 10:47

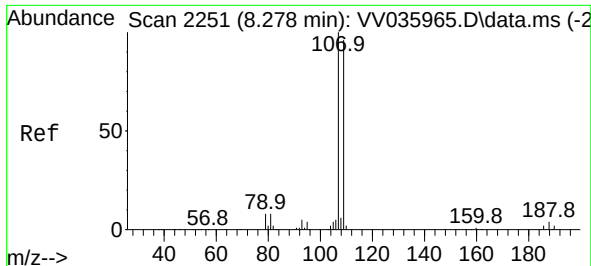
Tgt Ion:129 Resp: 566887

Ion Ratio Lower Upper

129 100

127 78.2 53.9 100.1

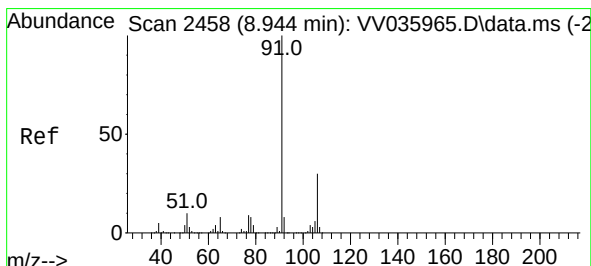
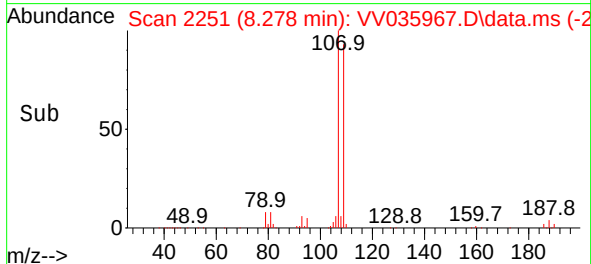
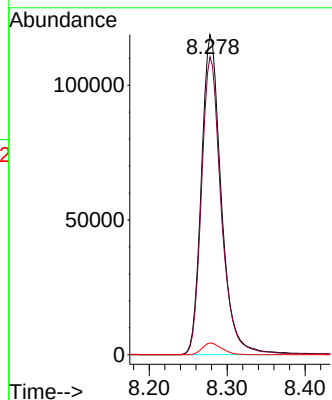
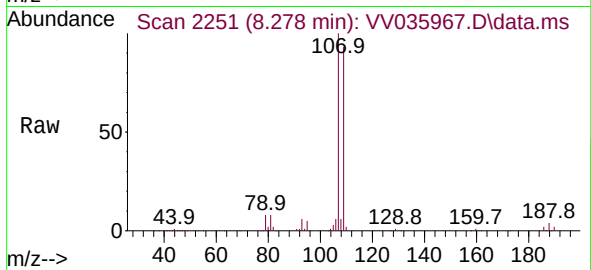




#50
1,2-Dibromoethane
Concen: 33.181 ug/L
RT: 8.278 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV035967.D
Acq: 04 Jun 2024 10:47

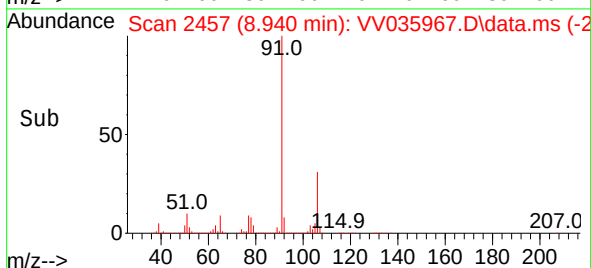
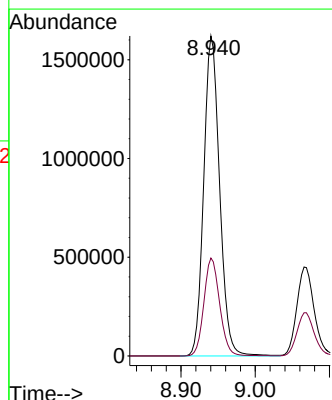
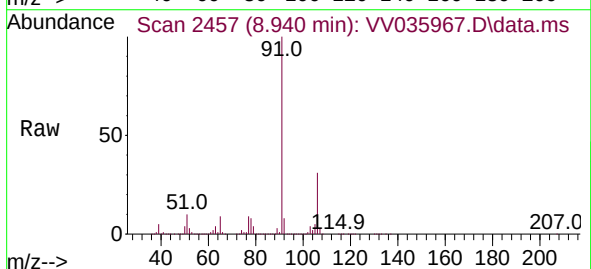
Instrument :
MSVOA_V
ClientSampleId :

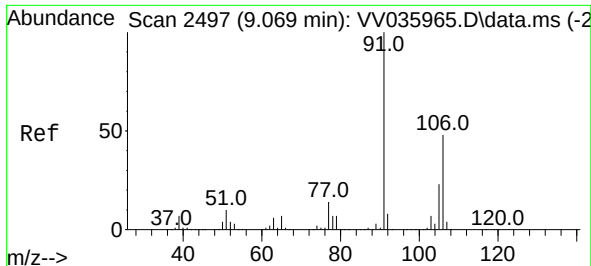
Tgt Ion:107 Resp: 210147
Ion Ratio Lower Upper
107 100
109 93.0 66.1 122.7
188 3.8 3.0 4.6



#52
Ethylbenzene
Concen: 72.275 ug/L
RT: 8.940 min Scan# 2457
Delta R.T. -0.003 min
Lab File: VV035967.D
Acq: 04 Jun 2024 10:47

Tgt Ion: 91 Resp: 2400488
Ion Ratio Lower Upper
91 100
106 30.6 21.6 40.0





#53

m,p-Xylene

Concen: 28.316 ug/L

RT: 9.066 min Scan# 2497

Delta R.T. -0.003 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Instrument :

MSVOA_V

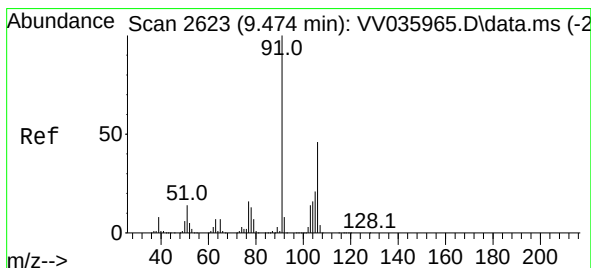
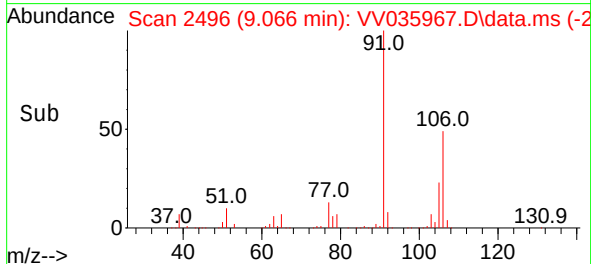
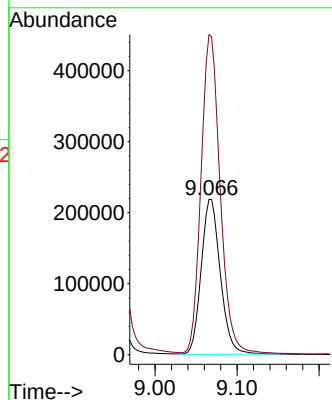
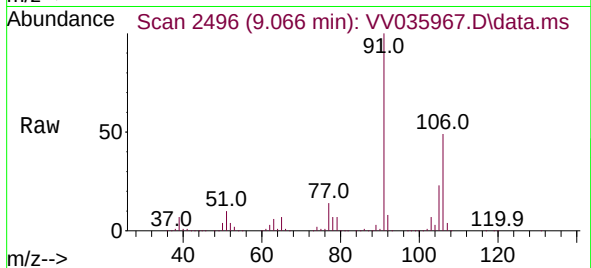
ClientSampleId :

Tgt Ion:106 Resp: 353379

Ion Ratio Lower Upper

106 100

91 206.0 143.1 265.9



#54

o-Xylene

Concen: 46.346 ug/L

RT: 9.474 min Scan# 2623

Delta R.T. -0.000 min

Lab File: VV035967.D

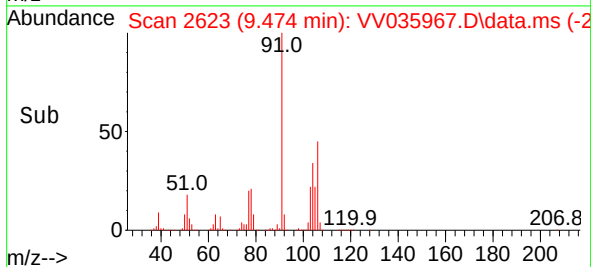
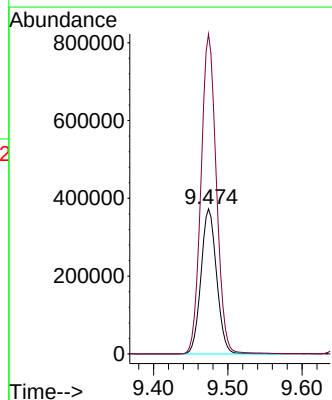
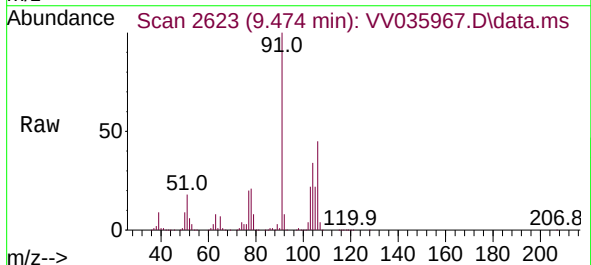
Acq: 04 Jun 2024 10:47

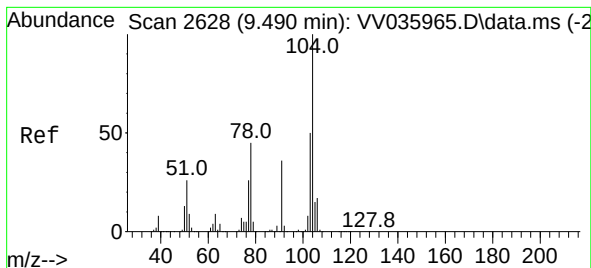
Tgt Ion:106 Resp: 545445

Ion Ratio Lower Upper

106 100

91 220.4 154.5 286.9





#55

Styrene

Concen: 89.537 ug/L

RT: 9.490 min Scan# 2

Delta R.T. -0.000 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Instrument :

MSVOA_V

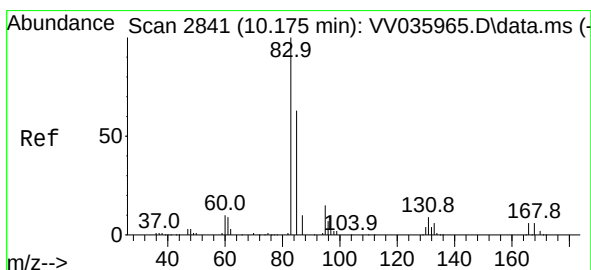
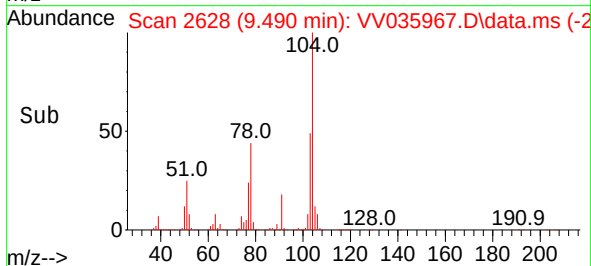
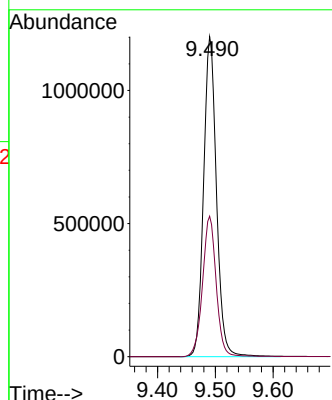
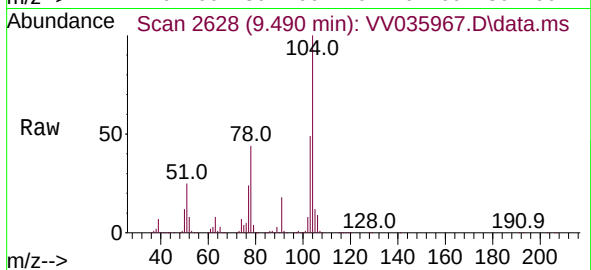
ClientSampleId :

Tgt Ion:104 Resp: 1858239

Ion Ratio Lower Upper

104 100

78 43.9 31.4 58.2



#57

1,1,2,2-Tetrachloroethane

Concen: 73.864 ug/L

RT: 10.175 min Scan# 2841

Delta R.T. -0.000 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

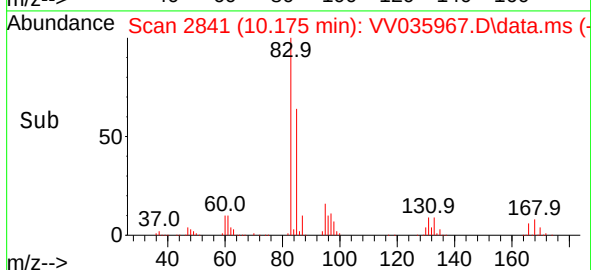
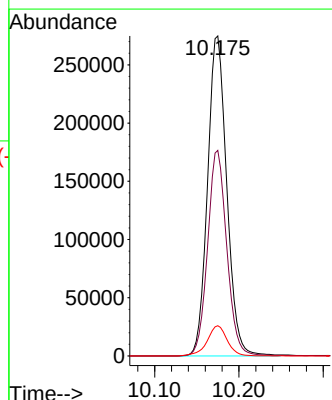
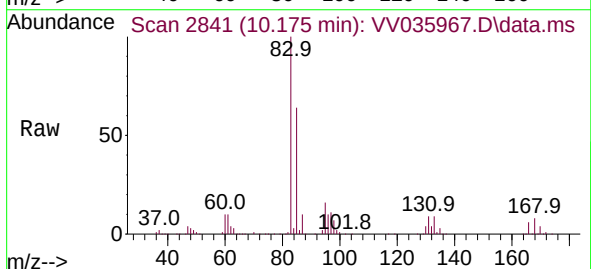
Tgt Ion: 83 Resp: 436556

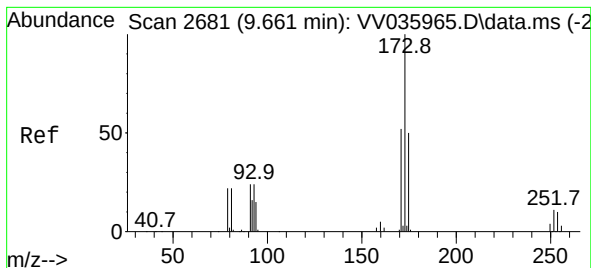
Ion Ratio Lower Upper

83 100

85 64.2 45.1 83.7

131 9.5 7.6 11.4





#59

Bromoform

Concen: 101.215 ug/L

RT: 9.660 min Scan# 2

Delta R.T. -0.000 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Instrument :

MSVOA_V

ClientSampleId :

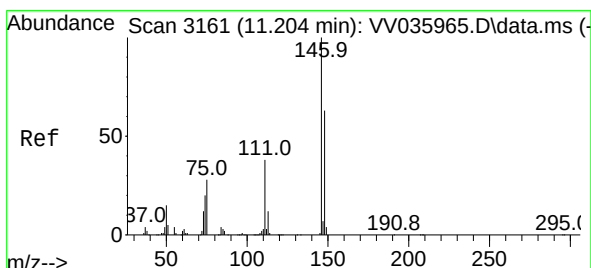
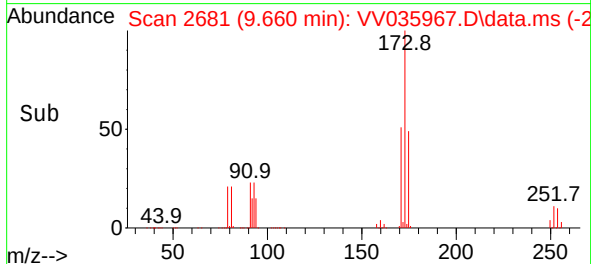
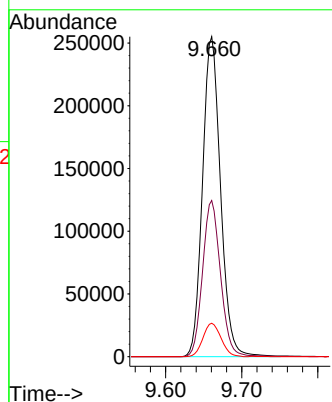
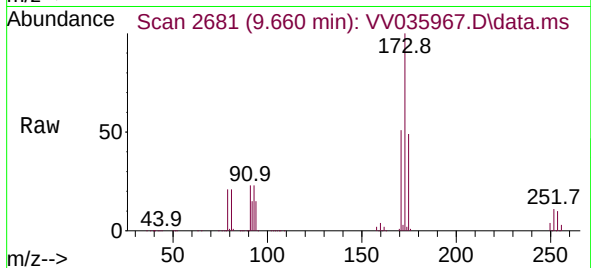
Tgt Ion:173 Resp: 419611

Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.6

254 10.5 8.6 13.0



#65

1,4-Dichlorobenzene

Concen: 70.001 ug/L

RT: 11.204 min Scan# 3161

Delta R.T. -0.000 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

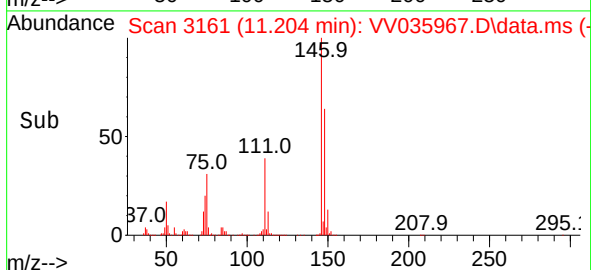
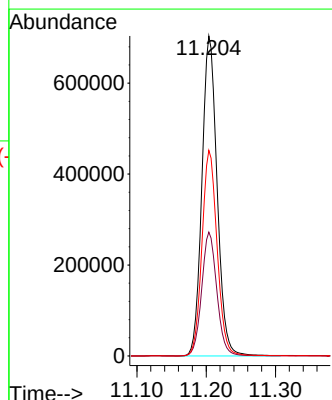
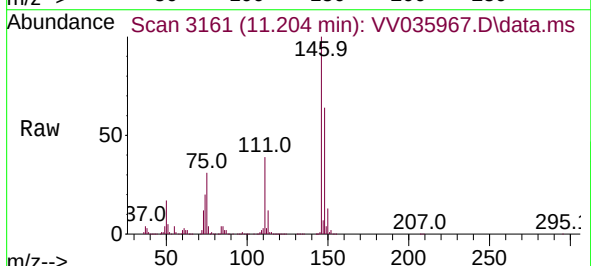
Tgt Ion:146 Resp: 1070151

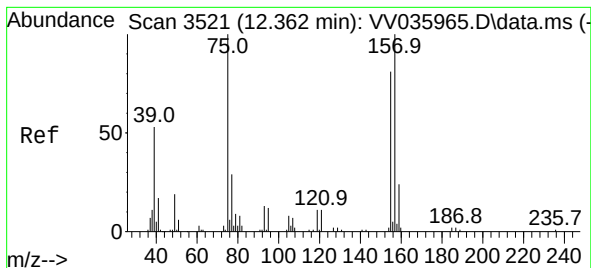
Ion Ratio Lower Upper

146 100

111 38.7 26.9 50.1

148 64.2 44.5 82.7





#68

1,2-Dibromo-3-chloropropane

Concen: 88.901 ug/L

RT: 12.361 min Scan# 3521

Delta R.T. -0.000 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Instrument :

MSVOA_V

ClientSampleId :

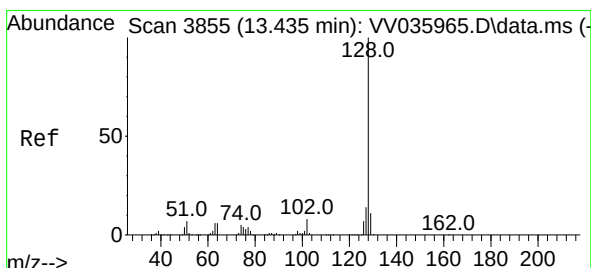
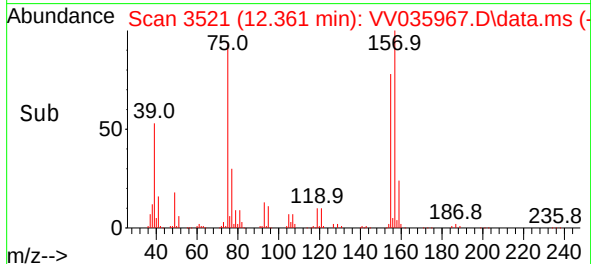
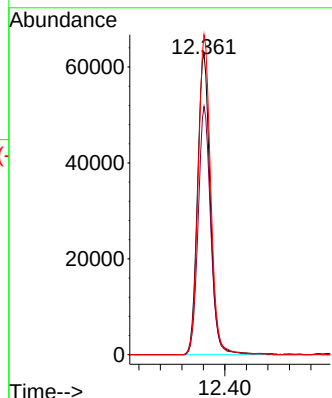
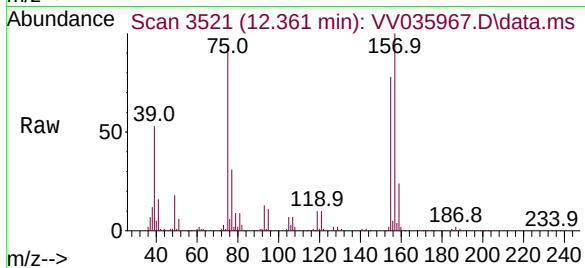
Tgt Ion: 75 Resp: 103358

Ion Ratio Lower Upper

75 100

155 82.6 63.3 94.9

157 106.5 82.4 123.6



#71

Naphthalene

Concen: 75.145 ug/L

RT: 13.435 min Scan# 3855

Delta R.T. -0.000 min

Lab File: VV035967.D

Acq: 04 Jun 2024 10:47

Tgt Ion:128 Resp: 1069778

Ion Ratio Lower Upper

128 100

127 13.5 10.6 16.0

129 10.8 8.8 13.2

