

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW071524\
 Data File : VW036536.D
 Acq On : 15 Jul 2024 18:30
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 16 01:30:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM071124SMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 16 01:25:30 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	326860	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	343611	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	170710	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.269	65	96682	20.646	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.600%
7) Chloroethane-d5	1.523	69	88251	21.555	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.200%
11) 1,1-Dichloroethene-d2	2.047	65	47166	19.614	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	78.440%
21) 2-Butanone-d5	4.056	46	425	0.530	ug/L	0.22
Spiked Amount	50.000	Range	20 - 135	Recovery	=	1.060%#
24) Chloroform-d	4.243	84	217851	22.897	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	91.600%
26) 1,2-Dichloroethane-d4	4.937	65	114886	24.346	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.400%
32) Benzene-d6	4.953	84	376390	21.957	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.840%
36) 1,2-Dichloropropane-d6	5.985	67	117152	22.931	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.720%
41) Toluene-d8	7.239	98	386869	24.459	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.840%
43) trans-1,3-Dichloroprop...	7.551	79	51072	24.044	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.160%
47) 2-Hexanone-d5	8.030	63	34956	61.606	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	123.220%
56) 1,1,2,2-Tetrachloroeth...	10.152	84	115446	26.831	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	107.320%
66) 1,2-Dichlorobenzene-d4	11.558	152	147809	25.514	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.040%
Target Compounds						
					Qvalue	
16) Methylene chloride	2.436	84	337447	50.215	ug/L	96
17) trans-1,2-Dichloroethene	2.683	96	229414	52.282	ug/L	99
18) Methyl tert-butyl Ether	2.703	73	287436	29.232	ug/L	99
19) 1,1-Dichloroethane	3.101	63	525225	66.127	ug/L	99
20) cis-1,2-Dichloroethene	3.805	96	438093	96.057	ug/L	99
22) 2-Butanone	3.889	43	102497	107.740	ug/L #	41
25) Chloroform	4.268	83	336580	35.689	ug/L	100
30) 1,1,1-Trichloroethane	4.506	97	3879	0.486	ug/L #	68
31) Carbon tetrachloride	4.725	117	113108	15.967	ug/L	99
33) Benzene	5.002	78	1625260	95.579	ug/L	100
34) Trichloroethene	5.825	95	593912	109.759	ug/L	99
38) Bromodichloromethane	6.426	83	479478	70.514	ug/L	99
39) cis-1,3-Dichloropropene	6.950	75	590680	89.260	ug/L	100
40) 4-Methyl-2-pentanone	7.156	43	784615	402.330	ug/L	91
42) Toluene	7.310	91	830672	46.102	ug/L	100
45) 1,1,2-Trichloroethane	7.763	97	238376	56.370	ug/L	98
46) Tetrachloroethene	7.902	164	198746	45.426	ug/L	99
48) 2-Hexanone	8.030	43	3817	2.639	ug/L #	66
49) Dibromochloromethane	8.172	129	496562	97.107	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Tue Jul 16 01:25:30 2024
Response via : Initial Calibration

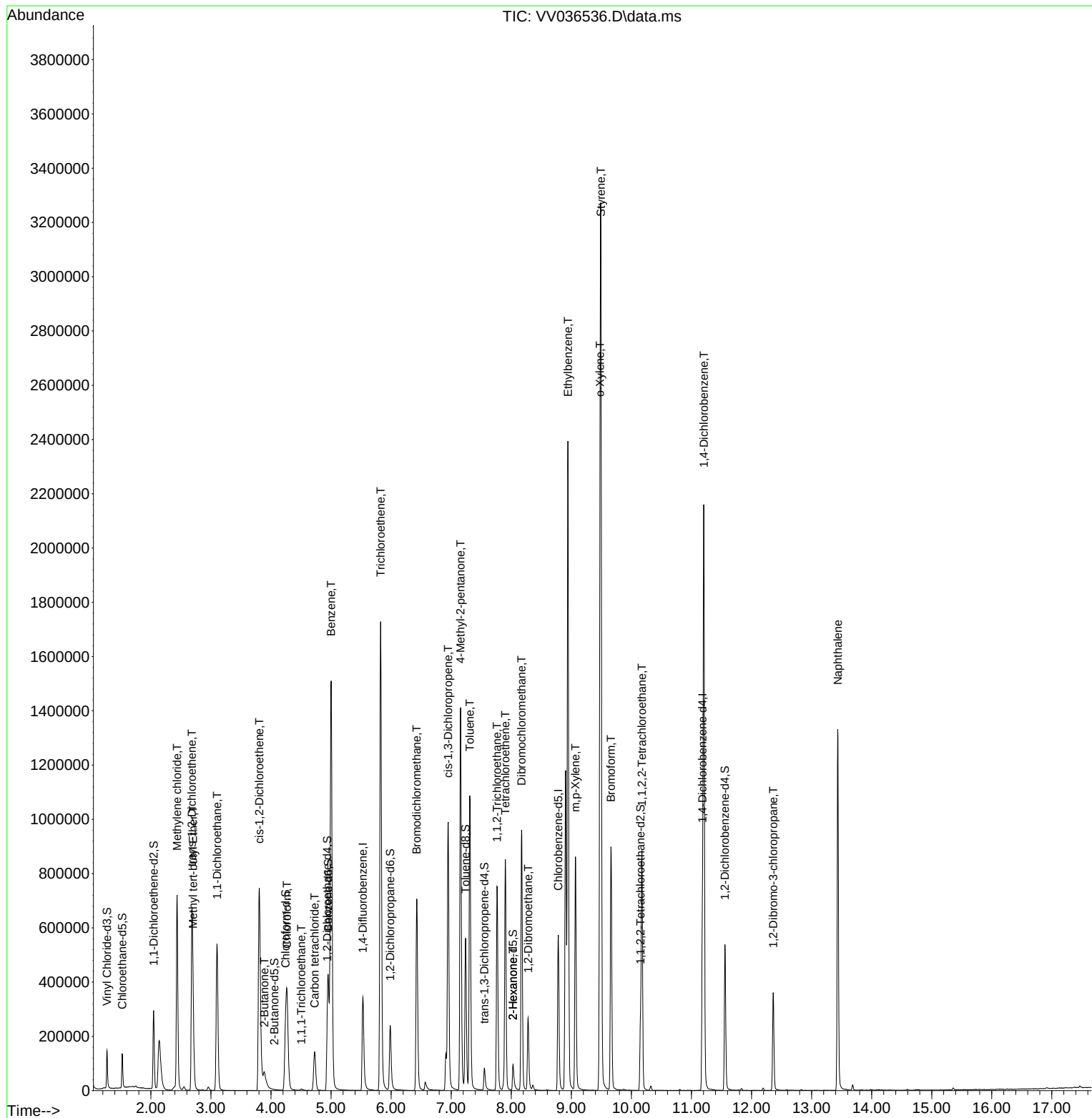
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dibromoethane	8.281	107	178025	44.857	ug/L	100
52) Ethylbenzene	8.944	91	1598421	82.700	ug/L	100
53) m,p-Xylene	9.069	106	246094	33.071	ug/L	100
54) o-Xylene	9.477	106	393017	55.473	ug/L	99
55) Styrene	9.493	104	1404216	110.778	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.175	83	398908	103.305	ug/L	99
59) Bromoform	9.661	173	413967	136.825	ug/L	99
65) 1,4-Dichlorobenzene	11.207	146	883887	81.647	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.361	75	84956	129.281	ug/L	96
71) Naphthalene	13.435	128	1012644	108.599	ug/L	100

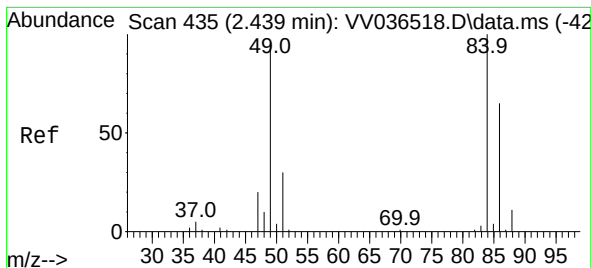
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#16

Methylene chloride

Concen: 50.215 ug/L

RT: 2.436 min Scan# 41

Delta R.T. -0.003 min

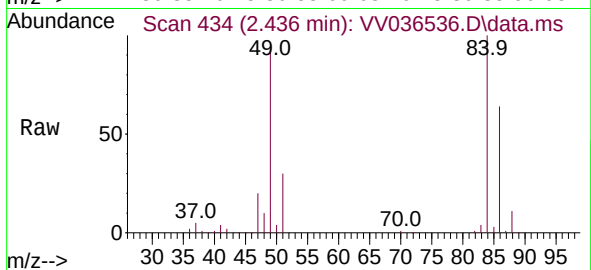
Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

Instrument :

MSVOA_V

ClientSampleId :



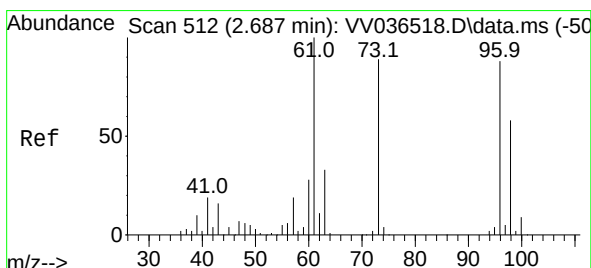
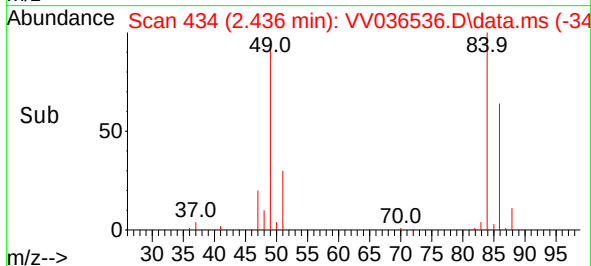
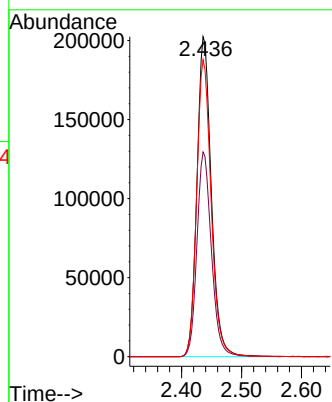
Tgt Ion: 84 Resp: 337447

Ion Ratio Lower Upper

84 100

86 64.0 46.3 86.1

49 92.8 68.1 126.5



#17

trans-1,2-Dichloroethene

Concen: 52.282 ug/L

RT: 2.683 min Scan# 511

Delta R.T. -0.003 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

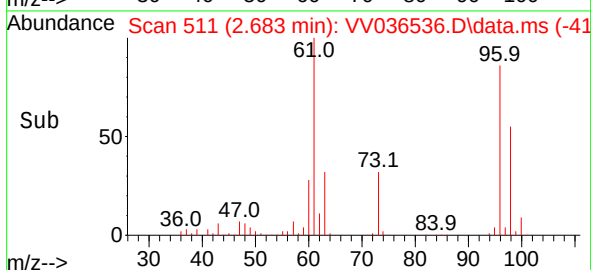
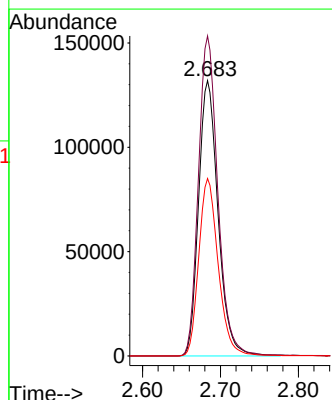
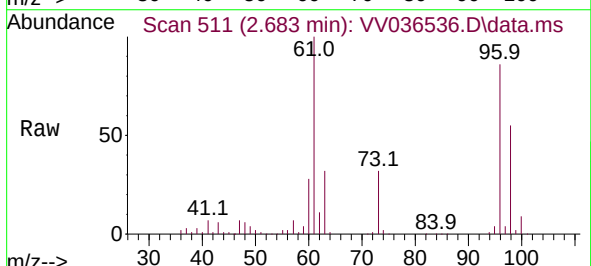
Tgt Ion: 96 Resp: 229414

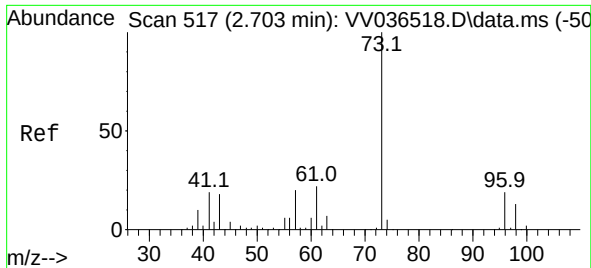
Ion Ratio Lower Upper

96 100

61 116.2 80.7 149.9

98 64.4 44.6 82.8

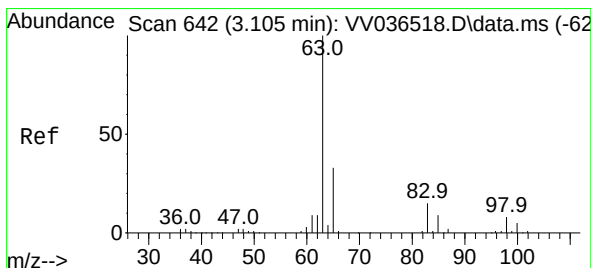
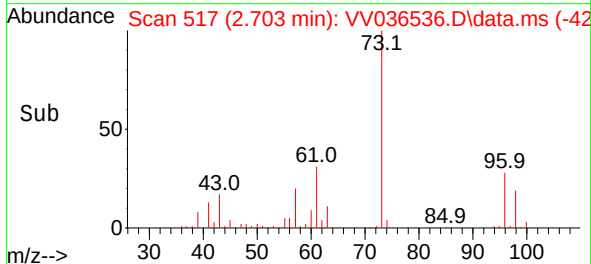
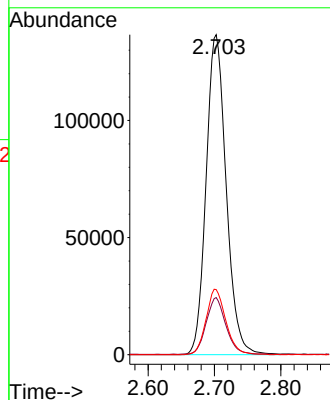
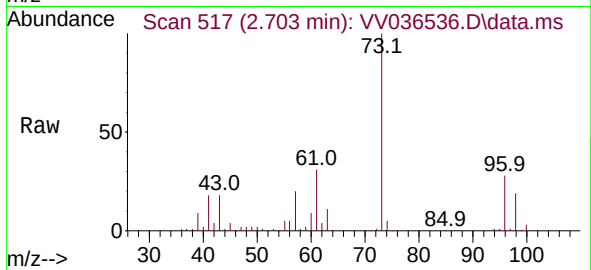




#18
Methyl tert-butyl Ether
Concen: 29.232 ug/L
RT: 2.703 min Scan# 517
Delta R.T. -0.000 min
Lab File: VV036536.D
Acq: 15 Jul 2024 18:30

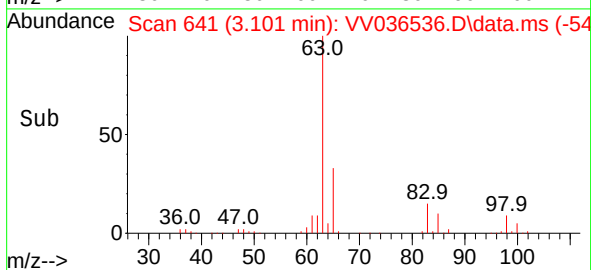
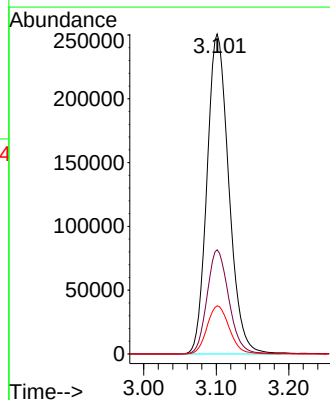
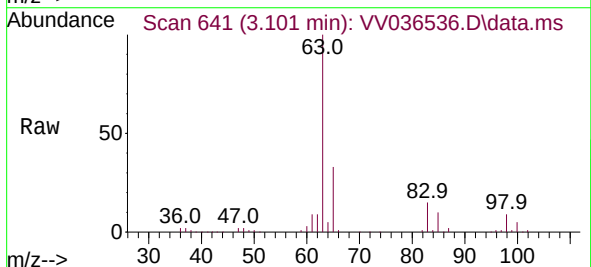
Instrument :
MSVOA_V
ClientSampleId :

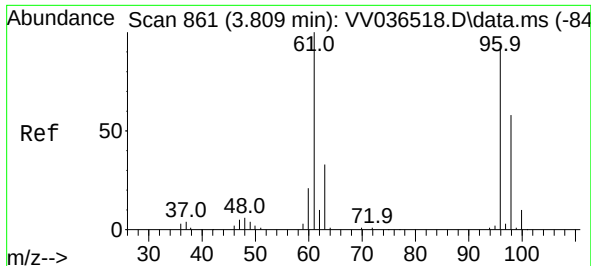
Tgt Ion: 73 Resp: 287436
Ion Ratio Lower Upper
73 100
43 17.3 14.3 21.5
57 20.1 16.5 24.7



#19
1,1-Dichloroethane
Concen: 66.127 ug/L
RT: 3.101 min Scan# 641
Delta R.T. -0.003 min
Lab File: VV036536.D
Acq: 15 Jul 2024 18:30

Tgt Ion: 63 Resp: 525225
Ion Ratio Lower Upper
63 100
65 32.6 22.7 42.1
83 15.1 10.9 20.2





#20

cis-1,2-Dichloroethene

Concen: 96.057 ug/L

RT: 3.805 min Scan# 861

Delta R.T. -0.003 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

Instrument :

MSVOA_V

ClientSampleId :

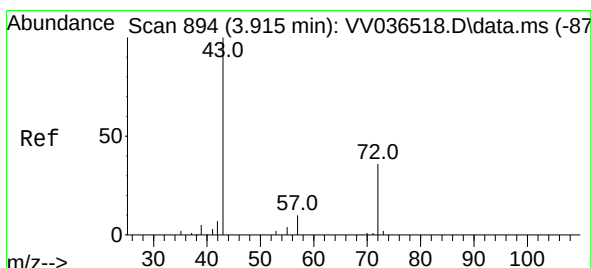
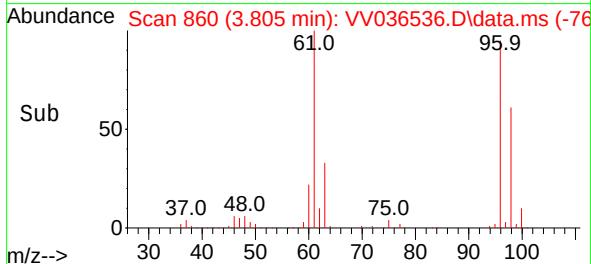
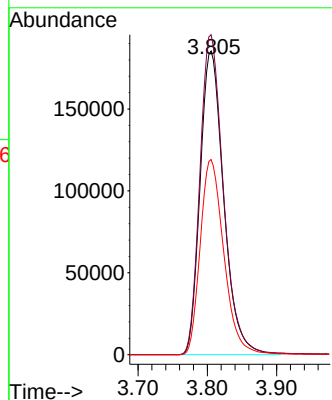
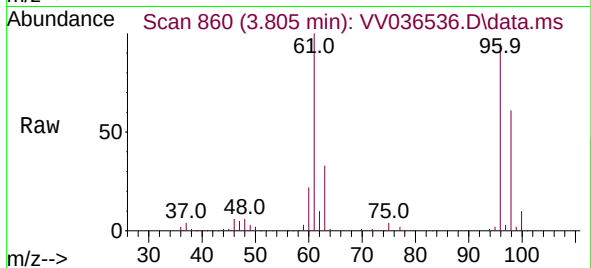
Tgt Ion: 96 Resp: 438093

Ion Ratio Lower Upper

96 100

61 105.4 74.8 138.8

98 64.3 45.2 84.0



#22

2-Butanone

Concen: 107.740 ug/L

RT: 3.889 min Scan# 886

Delta R.T. -0.026 min

Lab File: VV036536.D

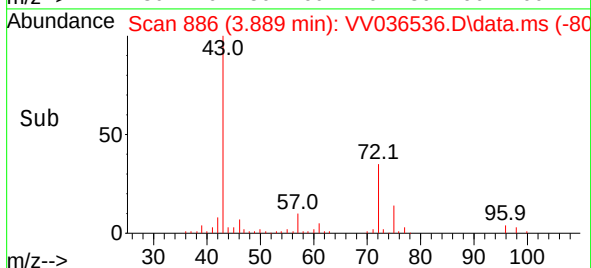
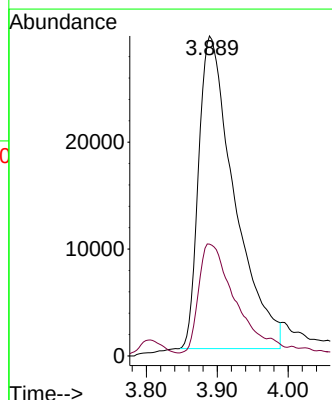
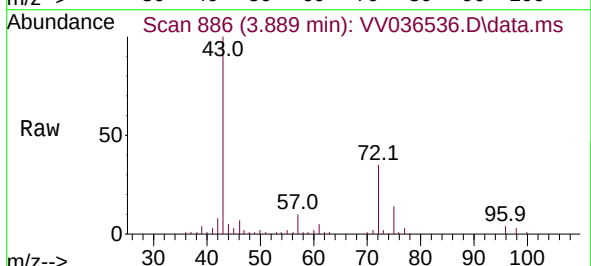
Acq: 15 Jul 2024 18:30

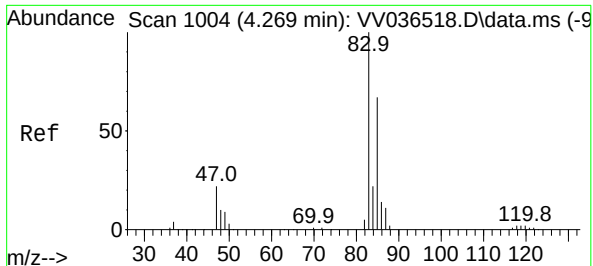
Tgt Ion: 43 Resp: 102497

Ion Ratio Lower Upper

43 100

72 34.4 5.9 17.6#





#25

Chloroform

Concen: 35.689 ug/L

RT: 4.268 min Scan# 1004

Delta R.T. -0.000 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

Instrument :

MSVOA_V

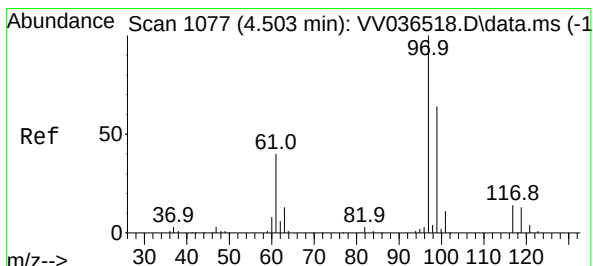
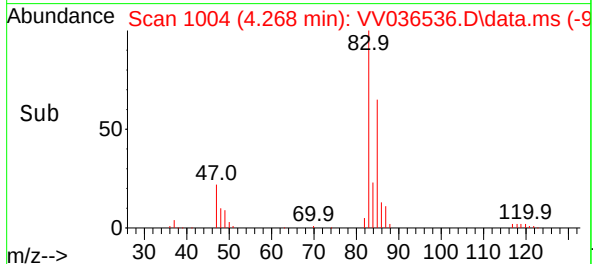
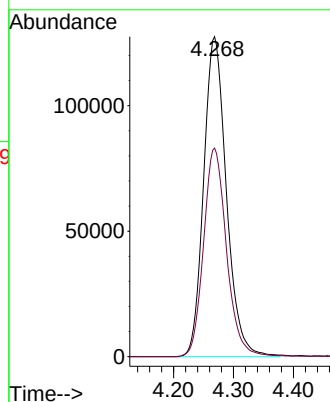
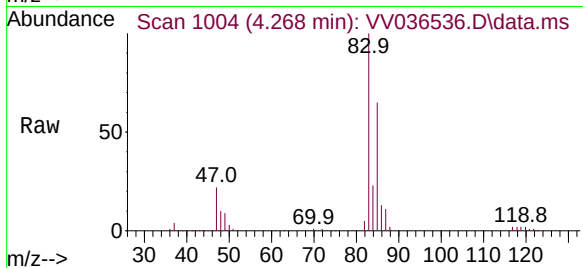
ClientSampleId :

Tgt Ion: 83 Resp: 336580

Ion Ratio Lower Upper

83 100

85 65.2 45.6 84.6



#30

1,1,1-Trichloroethane

Concen: 0.486 ug/L

RT: 4.506 min Scan# 1078

Delta R.T. 0.003 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

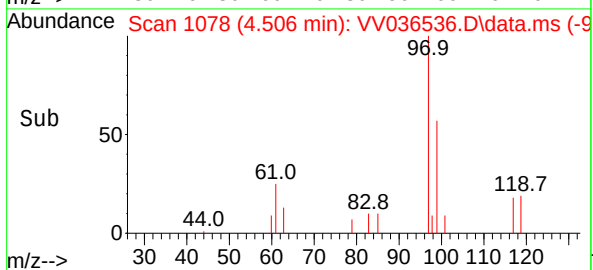
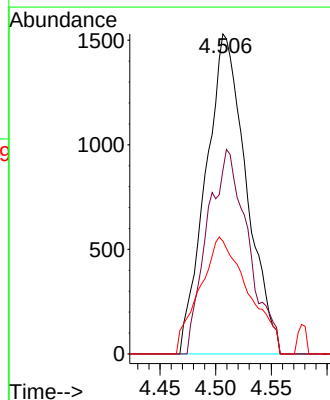
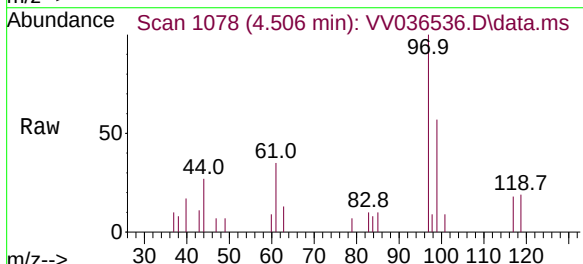
Tgt Ion: 97 Resp: 3879

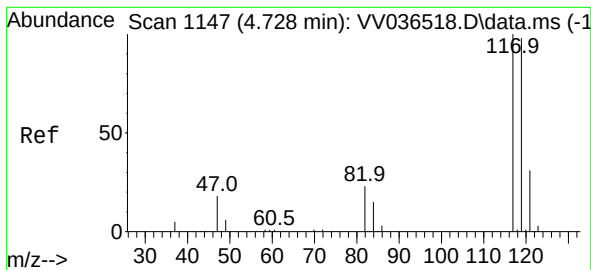
Ion Ratio Lower Upper

97 100

99 27.1 51.9 77.9#

61 43.7 32.2 48.4





#31

Carbon tetrachloride

Concen: 15.967 ug/L

RT: 4.725 min Scan# 1146

Delta R.T. -0.003 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

Instrument :

MSVOA_V

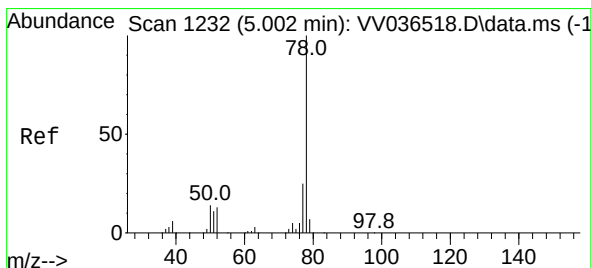
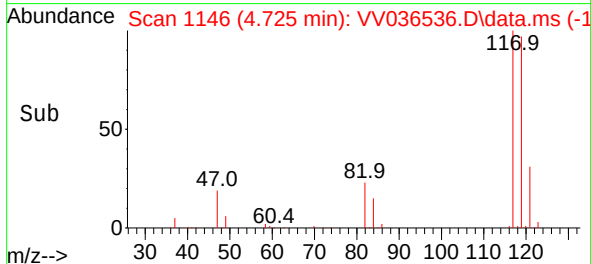
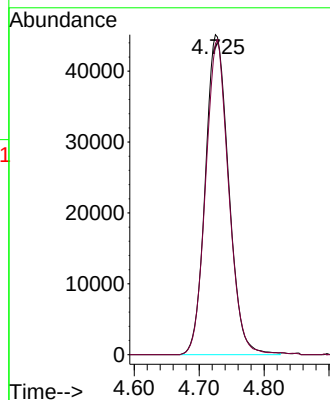
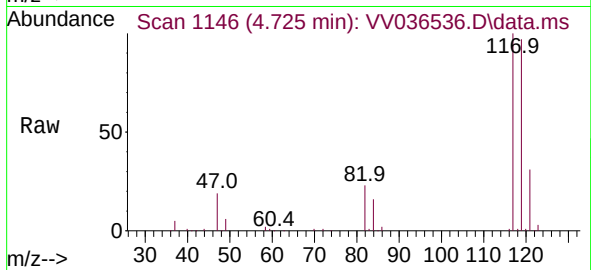
ClientSampleId :

Tgt Ion:117 Resp: 113108

Ion Ratio Lower Upper

117 100

119 96.5 77.6 116.4



#33

Benzene

Concen: 95.579 ug/L

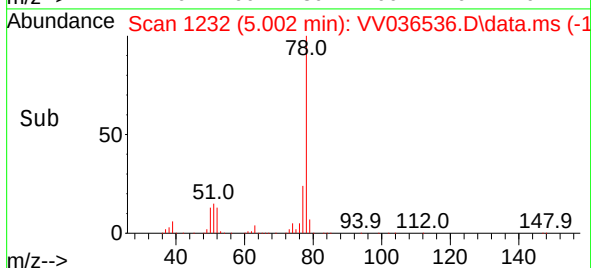
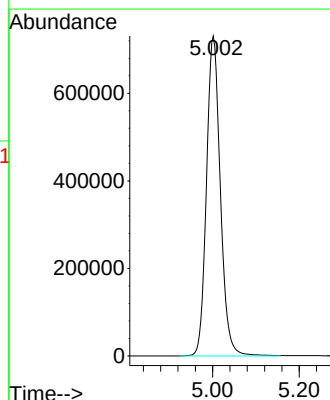
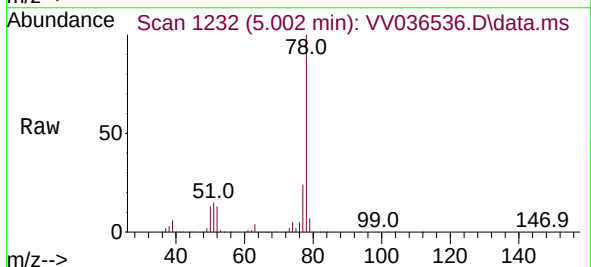
RT: 5.002 min Scan# 1232

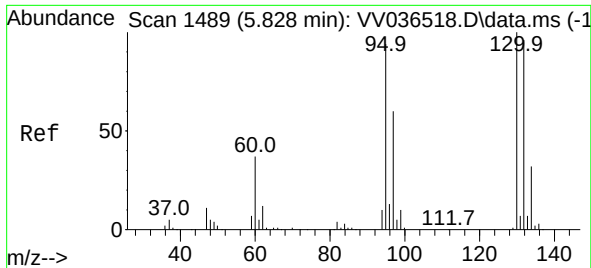
Delta R.T. -0.000 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

Tgt Ion: 78 Resp: 1625260

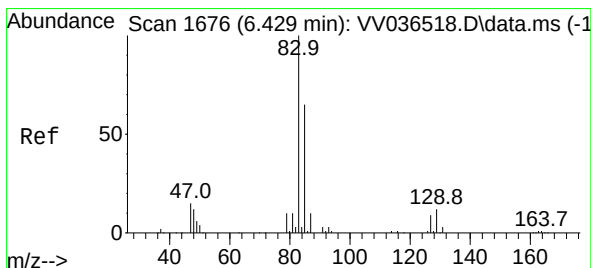
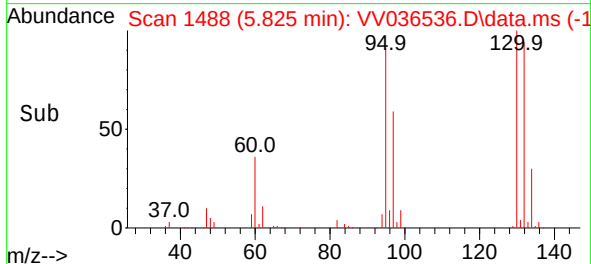
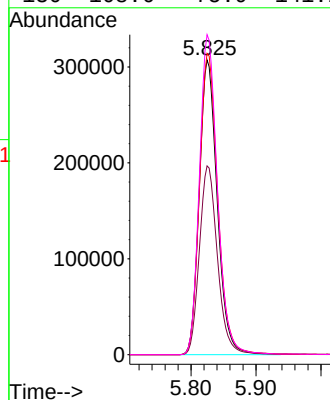
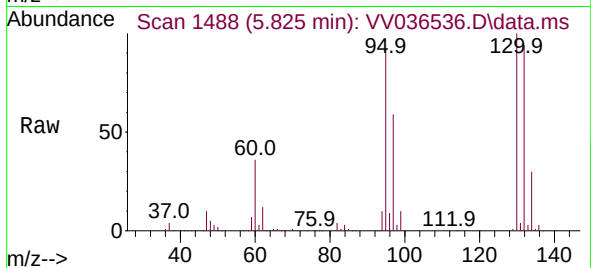




#34
Trichloroethene
Concen: 109.759 ug/L
RT: 5.825 min Scan# 1489
Delta R.T. -0.003 min
Lab File: VV036536.D
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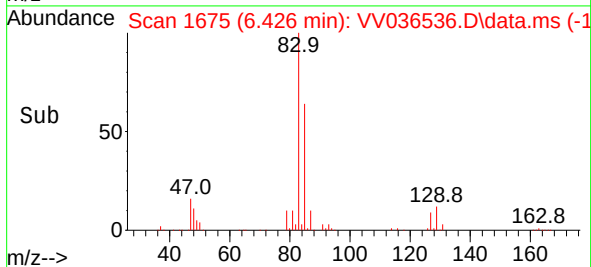
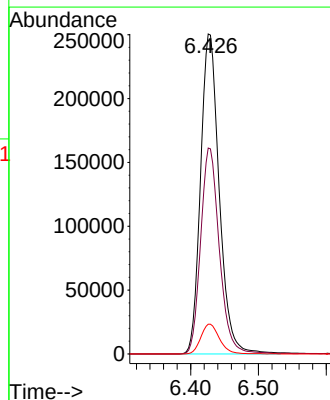
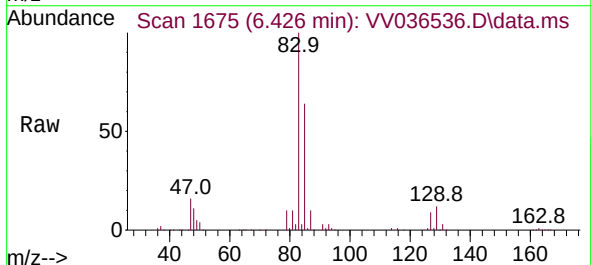
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MSVOA_V
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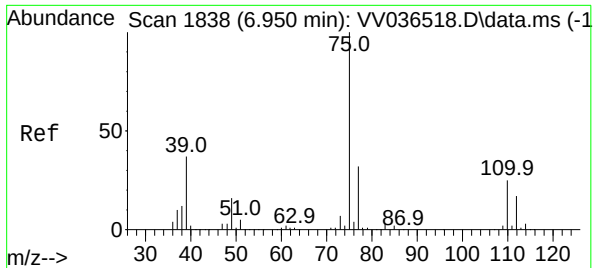
Tgt Ion: 95 Resp: 593912
Ion Ratio Lower Upper
95 100
97 64.1 44.4 82.4
132 102.2 73.0 135.6
130 108.6 75.9 141.1



#38
Bromodichloromethane
Concen: 70.514 ug/L
RT: 6.426 min Scan# 1675
Delta R.T. -0.003 min
Lab File: VV036536.D
Acq: 15 Jul 2024 18:30

Tgt Ion: 83 Resp: 479478
Ion Ratio Lower Upper
83 100
85 64.3 44.3 82.3
127 9.3 7.0 10.4

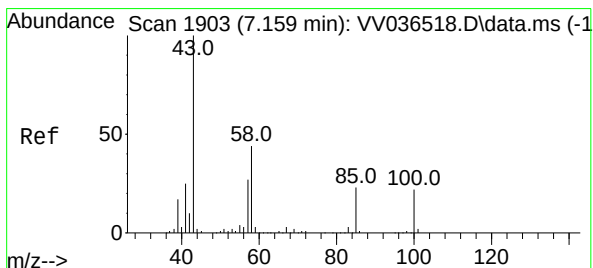
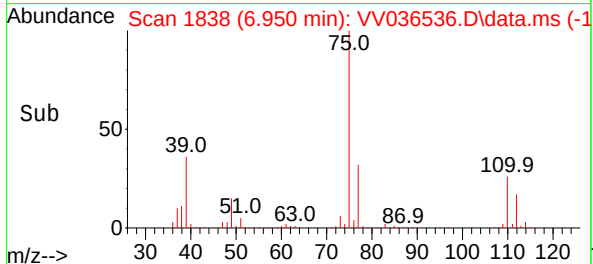
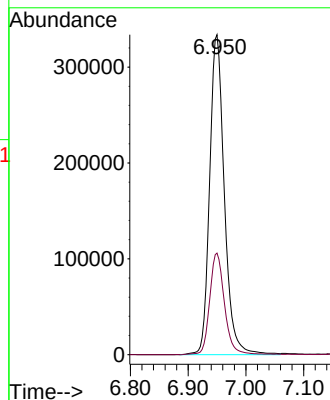
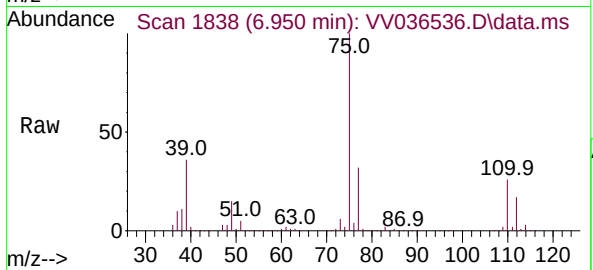




#39
cis-1,3-Dichloropropene
Concen: 89.260 ug/L
RT: 6.950 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV036536.D
Acq: 15 Jul 2024 18:30

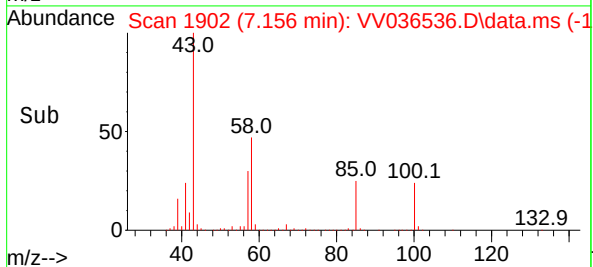
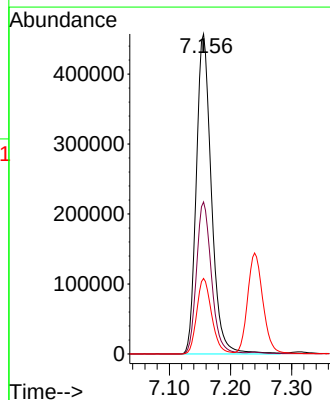
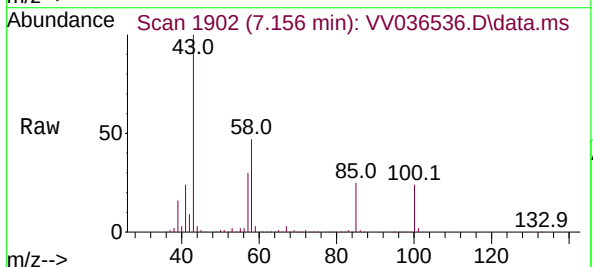
Instrument :
MSVOA_V
ClientSampleId :

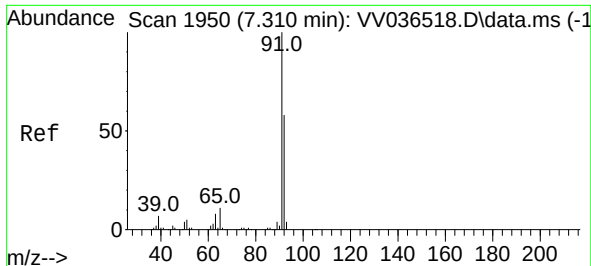
Tgt Ion: 75 Resp: 590680
Ion Ratio Lower Upper
75 100
77 31.7 22.2 41.2



#40
4-Methyl-2-pentanone
Concen: 402.330 ug/L
RT: 7.156 min Scan# 1902
Delta R.T. -0.003 min
Lab File: VV036536.D
Acq: 15 Jul 2024 18:30

Tgt Ion: 43 Resp: 784615
Ion Ratio Lower Upper
43 100
58 47.0 32.9 49.3
100 23.2 15.5 23.3





#42

Toluene

Concen: 46.102 ug/L

RT: 7.310 min Scan# 1950

Delta R.T. -0.000 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

Instrument :

MSVOA_V

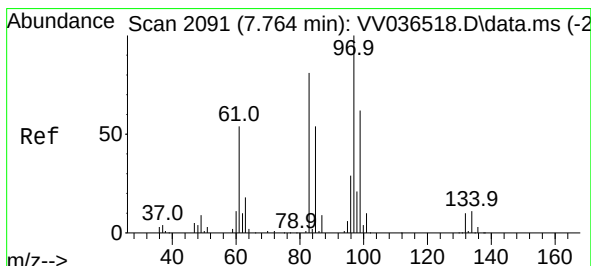
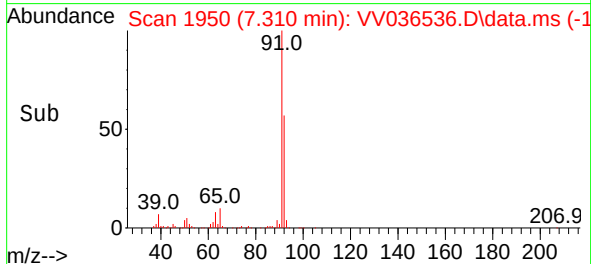
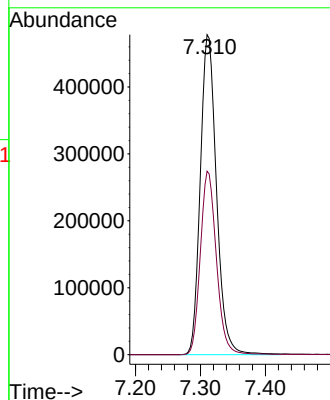
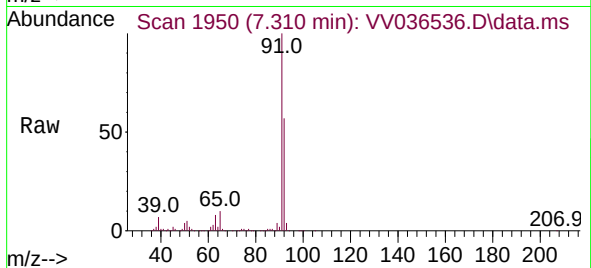
ClientSampleId :

Tgt Ion: 91 Resp: 830672

Ion Ratio Lower Upper

91 100

92 57.4 40.1 74.5



#45

1,1,2-Trichloroethane

Concen: 56.370 ug/L

RT: 7.763 min Scan# 2091

Delta R.T. -0.000 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

Tgt Ion: 97 Resp: 238376

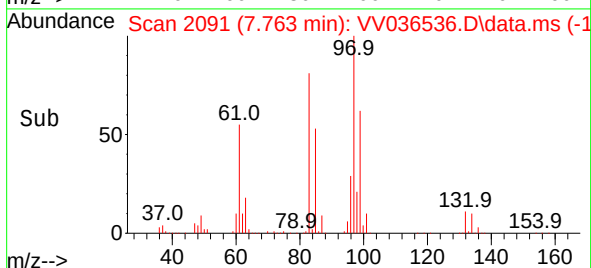
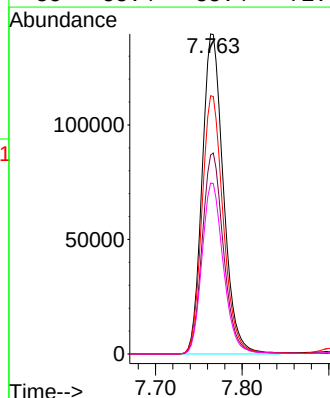
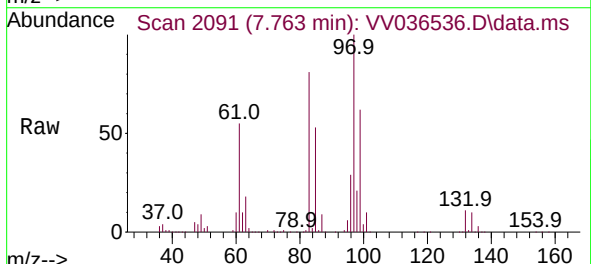
Ion Ratio Lower Upper

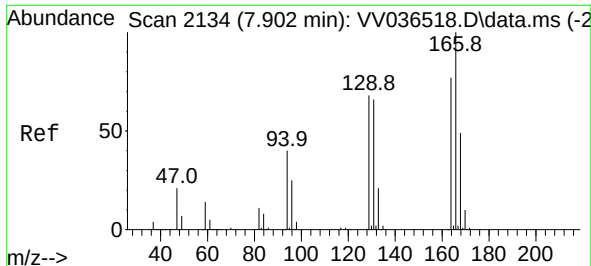
97 100

99 62.2 42.6 79.2

83 80.7 58.0 107.6

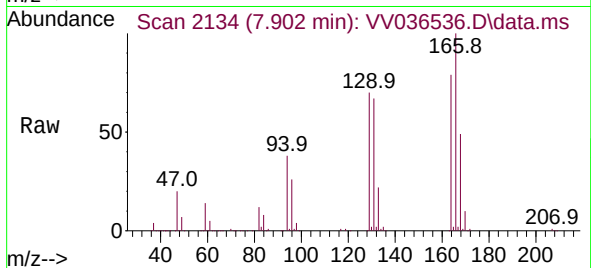
85 53.4 38.4 71.4



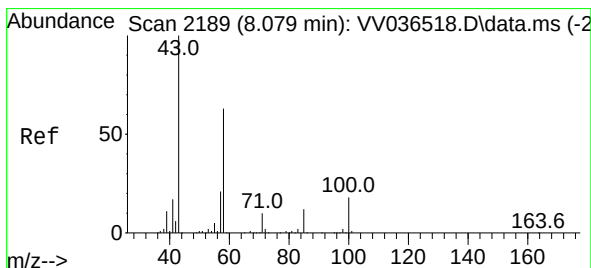
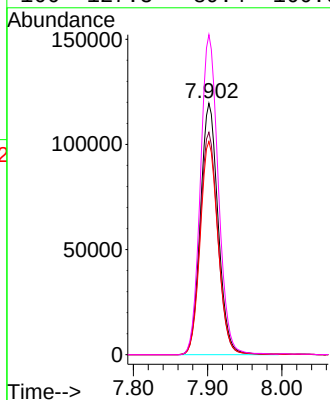
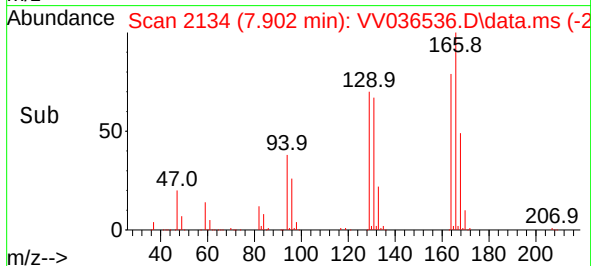


#46
Tetrachloroethene
Concen: 45.426 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. -0.000 min
Lab File: VV036536.D
Acq: 15 Jul 2024 18:30

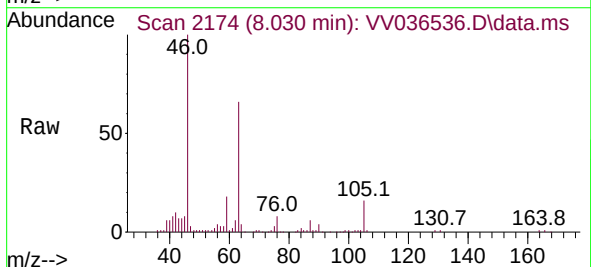
Instrument :
MSVOA_V
ClientSampleId :



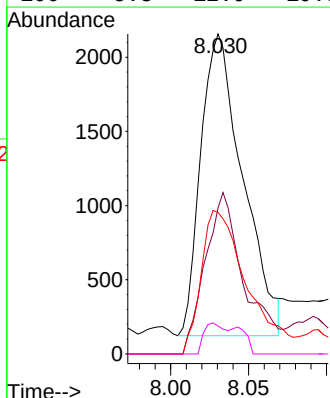
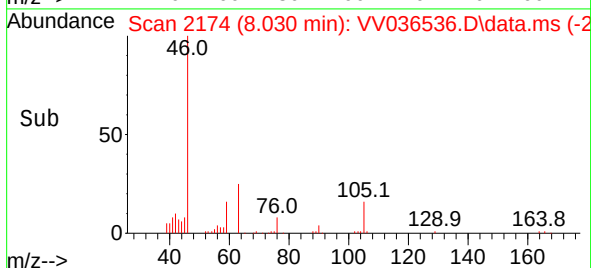
Tgt Ion:164 Resp: 198746
Ion Ratio Lower Upper
164 100
129 88.5 61.0 113.4
131 84.9 59.8 111.1
166 127.3 89.4 166.0

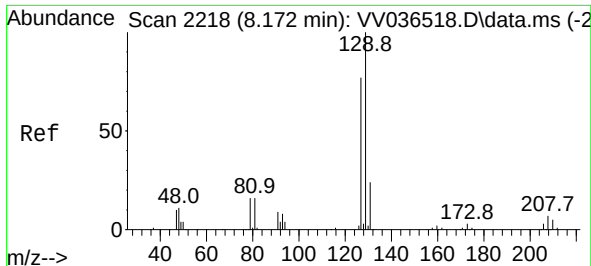


#48
2-Hexanone
Concen: 2.639 ug/L
RT: 8.030 min Scan# 2174
Delta R.T. -0.048 min
Lab File: VV036536.D
Acq: 15 Jul 2024 18:30



Tgt Ion: 43 Resp: 3817
Ion Ratio Lower Upper
43 100
58 42.9 49.5 74.3#
57 51.7 15.3 22.9#
100 5.3 12.9 19.3#





#49

Dibromochloromethane

Concen: 97.107 ug/L

RT: 8.172 min Scan# 2218

Delta R.T. -0.000 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

Instrument :

MSVOA_V

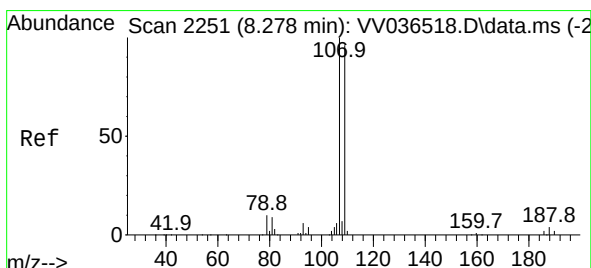
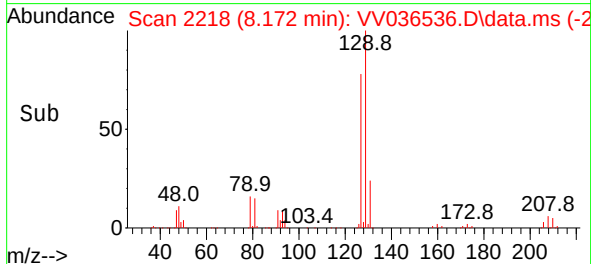
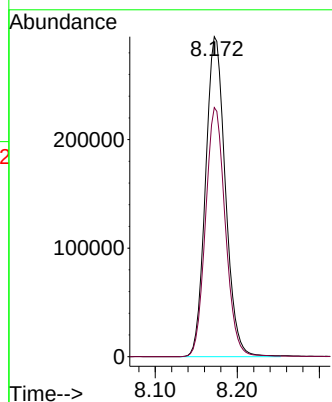
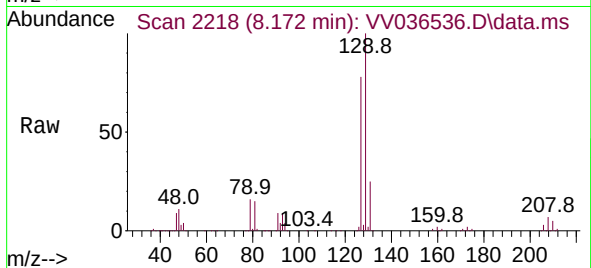
ClientSampleId :

Tgt Ion:129 Resp: 496562

Ion Ratio Lower Upper

129 100

127 77.8 53.7 99.7



#50

1,2-Dibromoethane

Concen: 44.857 ug/L

RT: 8.281 min Scan# 2252

Delta R.T. 0.003 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

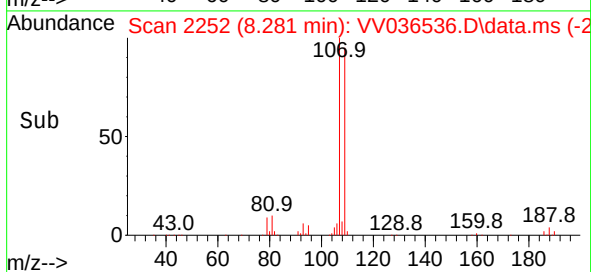
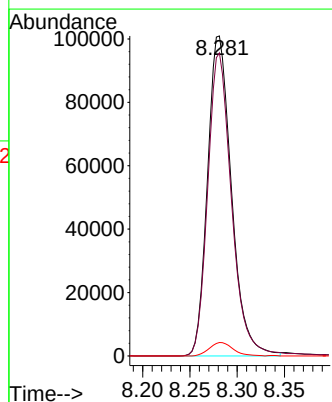
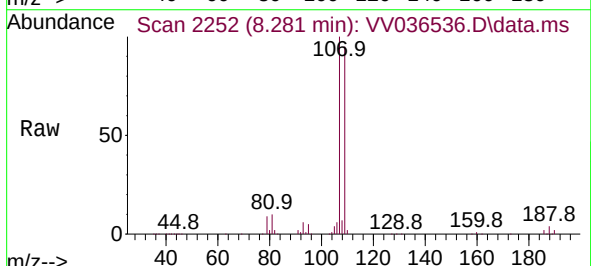
Tgt Ion:107 Resp: 178025

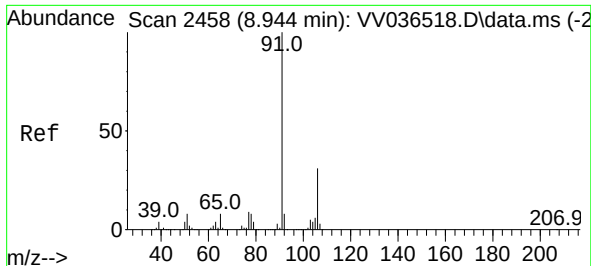
Ion Ratio Lower Upper

107 100

109 94.7 66.2 123.0

188 4.2 3.4 5.0





#52

Ethylbenzene

Concen: 82.700 ug/L

RT: 8.944 min Scan# 2458

Delta R.T. -0.000 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

Instrument :

MSVOA_V

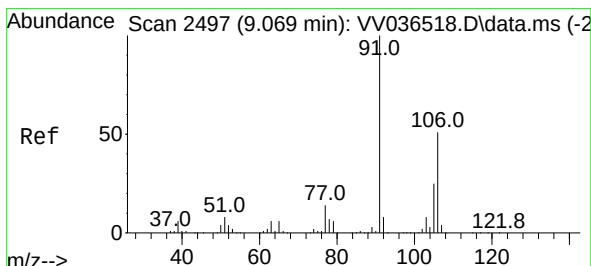
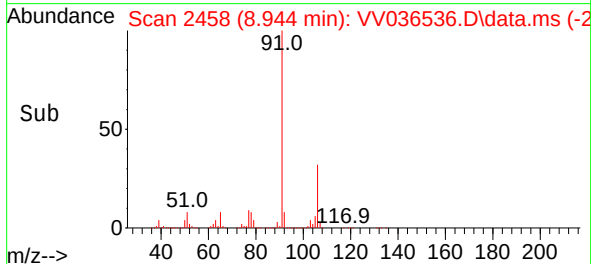
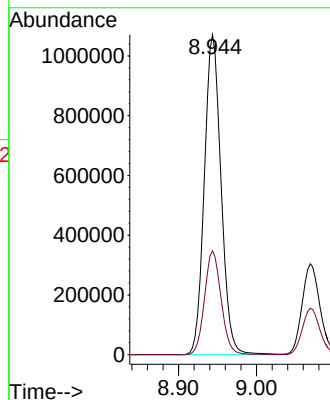
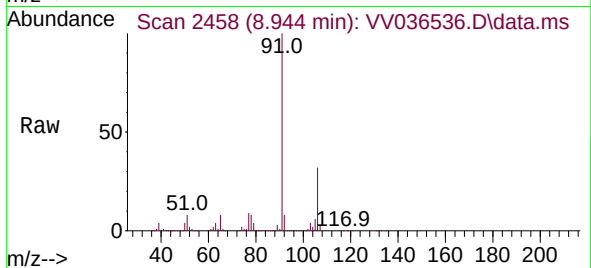
ClientSampleId :

Tgt Ion: 91 Resp: 1598421

Ion Ratio Lower Upper

91 100

106 32.5 22.6 42.0



#53

m,p-Xylene

Concen: 33.071 ug/L

RT: 9.069 min Scan# 2497

Delta R.T. -0.000 min

Lab File: VV036536.D

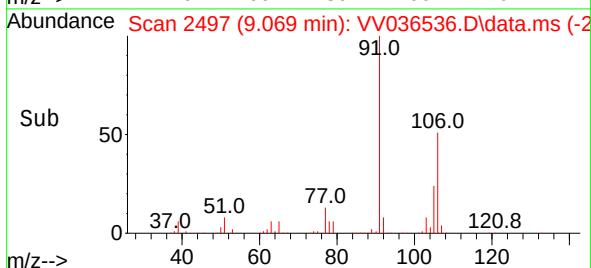
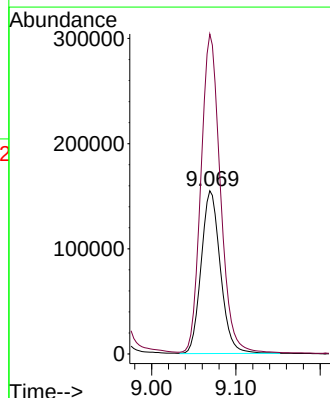
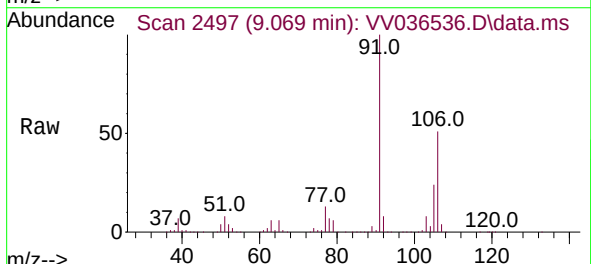
Acq: 15 Jul 2024 18:30

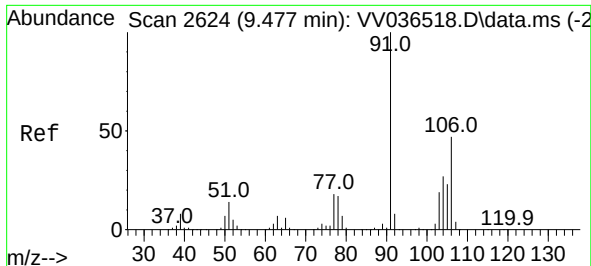
Tgt Ion:106 Resp: 246094

Ion Ratio Lower Upper

106 100

91 196.0 137.1 254.7





#54

o-Xylene

Concen: 55.473 ug/L

RT: 9.477 min Scan# 2624

Delta R.T. -0.000 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

Instrument :

MSVOA_V

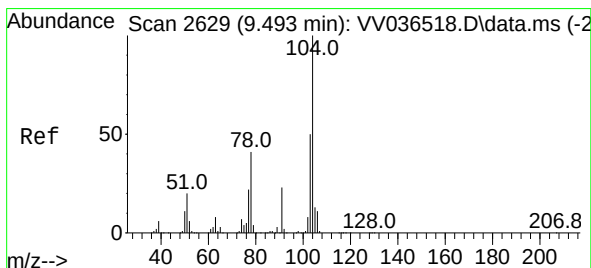
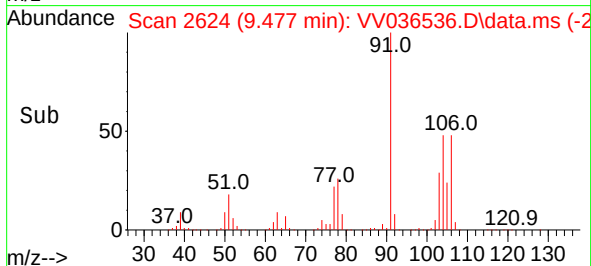
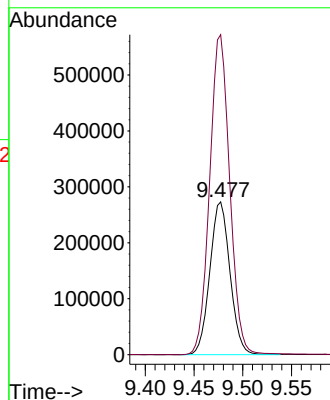
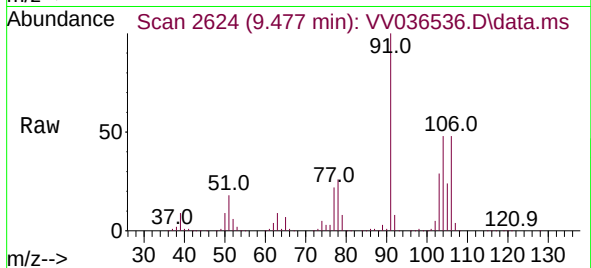
ClientSampleId :

Tgt Ion:106 Resp: 393017

Ion Ratio Lower Upper

106 100

91 209.4 147.3 273.6



#55

Styrene

Concen: 110.778 ug/L

RT: 9.493 min Scan# 2629

Delta R.T. -0.000 min

Lab File: VV036536.D

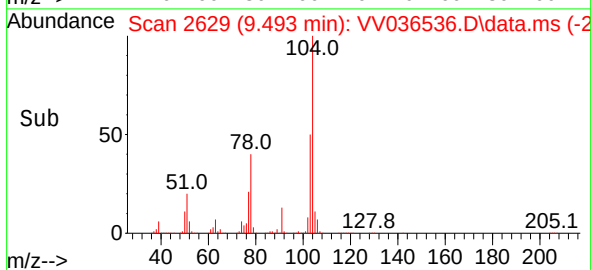
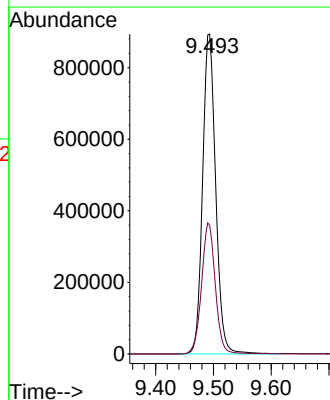
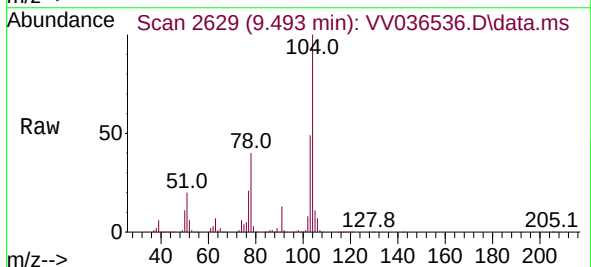
Acq: 15 Jul 2024 18:30

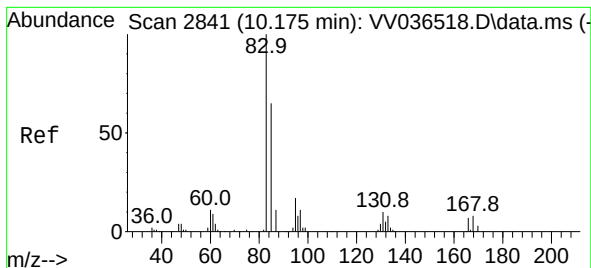
Tgt Ion:104 Resp: 1404216

Ion Ratio Lower Upper

104 100

78 40.2 28.8 53.6

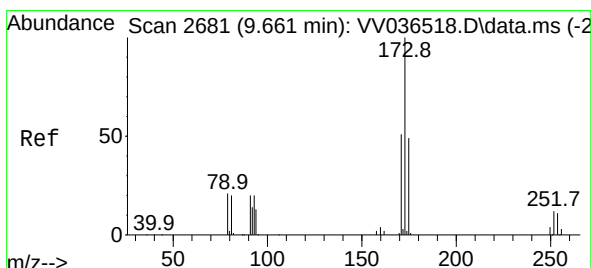
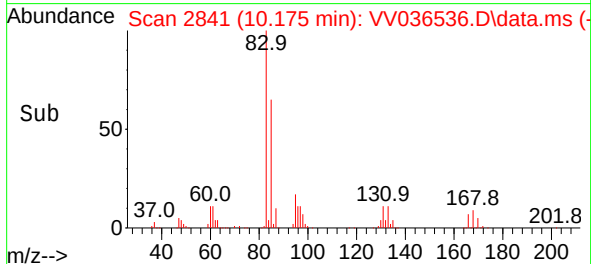
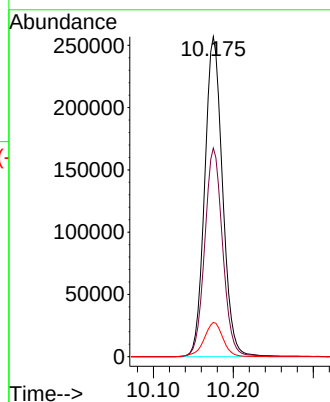
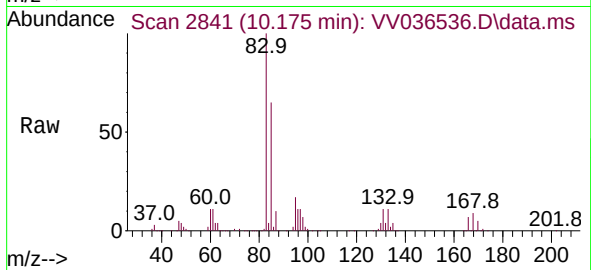




#57
1,1,2,2-Tetrachloroethane
Concen: 103.305 ug/L
RT: 10.175 min Scan# 2841
Delta R.T. -0.000 min
Lab File: VV036536.D
Acq: 15 Jul 2024 18:30

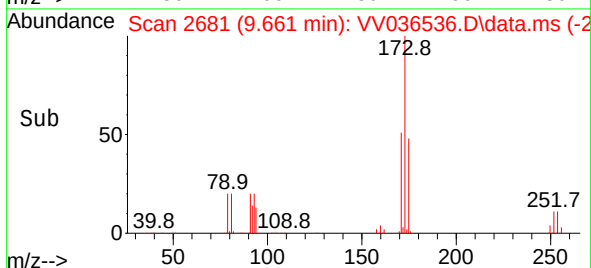
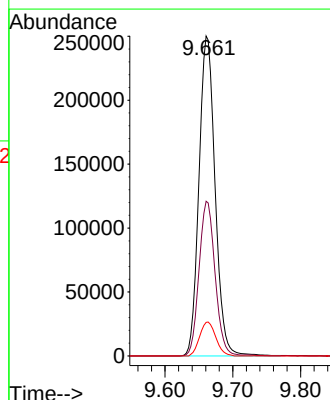
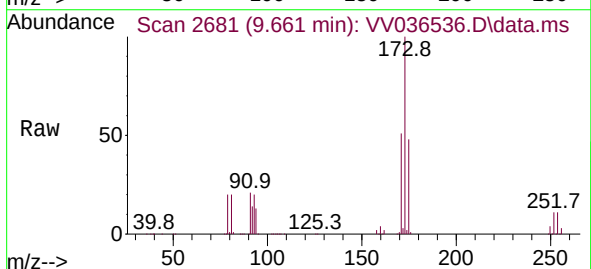
Instrument :
MSVOA_V
ClientSampleId :

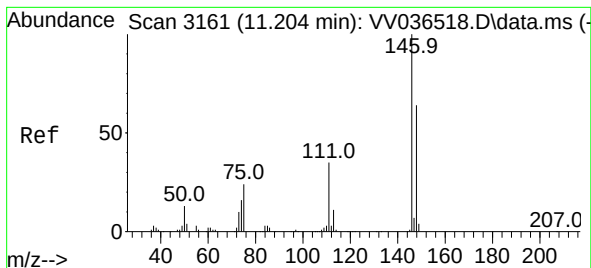
Tgt Ion: 83 Resp: 398908
Ion Ratio Lower Upper
83 100
85 65.2 45.0 83.6
131 10.7 8.1 12.1



#59
Bromoform
Concen: 136.825 ug/L
RT: 9.661 min Scan# 2681
Delta R.T. -0.000 min
Lab File: VV036536.D
Acq: 15 Jul 2024 18:30

Tgt Ion: 173 Resp: 413967
Ion Ratio Lower Upper
173 100
175 47.8 37.6 56.4
254 10.6 8.2 12.4





#65

1,4-Dichlorobenzene

Concen: 81.647 ug/L

RT: 11.207 min Scan# 3162

Delta R.T. 0.003 min

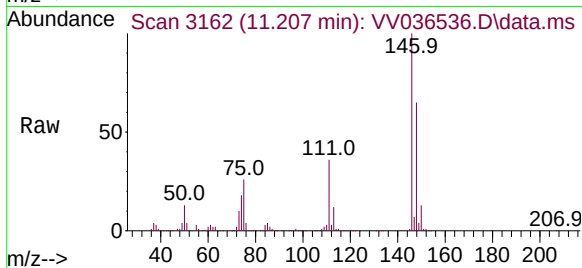
Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

Instrument :

MSVOA_V

ClientSampleId :



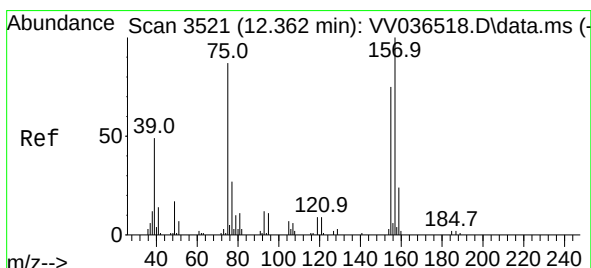
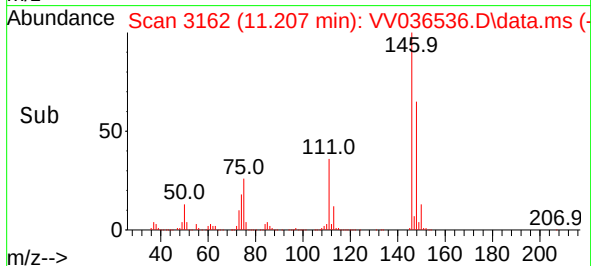
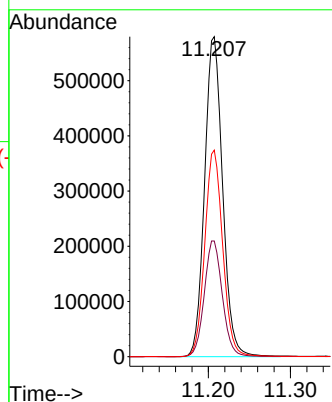
Tgt Ion:146 Resp: 883887

Ion Ratio Lower Upper

146 100

111 36.2 25.2 46.8

148 64.5 45.2 84.0



#68

1,2-Dibromo-3-chloropropane

Concen: 129.281 ug/L

RT: 12.361 min Scan# 3521

Delta R.T. -0.000 min

Lab File: VV036536.D

Acq: 15 Jul 2024 18:30

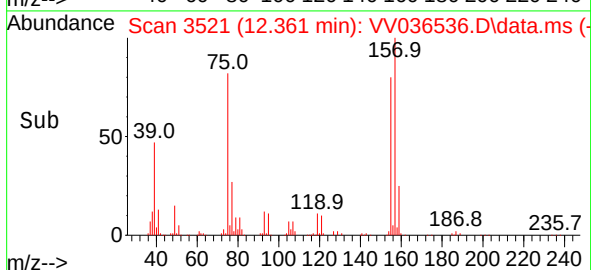
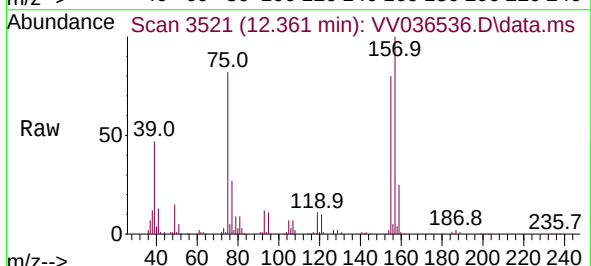
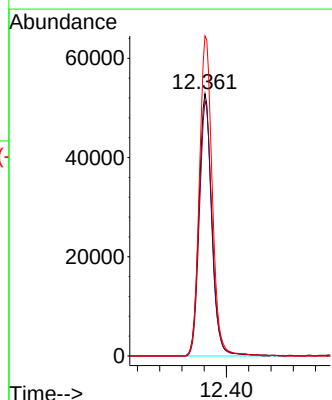
Tgt Ion: 75 Resp: 84956

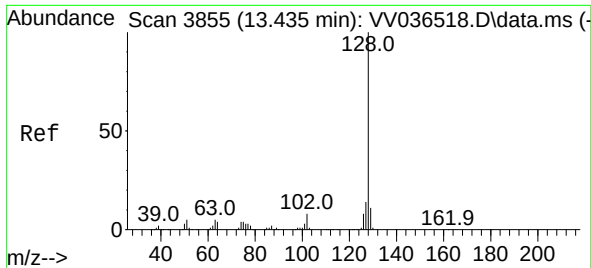
Ion Ratio Lower Upper

75 100

155 97.3 74.6 111.8

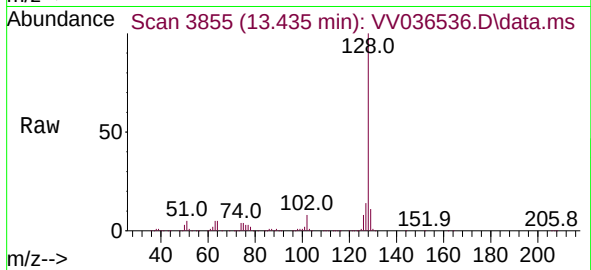
157 122.1 95.0 142.4





#71
Naphthalene
Concen: 108.599 ug/L
RT: 13.435 min Scan# 3855
Delta R.T. -0.000 min
Lab File: VV036536.D
Acq: 15 Jul 2024 18:30

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 1012644
Ion Ratio Lower Upper
128 100
127 13.6 10.8 16.2
129 10.7 8.6 13.0

