

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV102224\
 Data File : VV037909.D
 Acq On : 22 Oct 2024 13:59
 Operator : SY/MD
 Sample : P4476-10
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 23 01:17:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR101624WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Oct 23 01:16:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.526	114	318553	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	333339	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	160382	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	81767	3.897	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.000%
7) Chloroethane-d5	1.529	69	76730	4.105	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.200%
11) 1,1-Dichloroethene-d2	2.053	65	38685	3.958	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.200%
20) 2-Butanone-d5	3.809	46	243329	50.631	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.260%
24) Chloroform-d	4.239	84	203696	4.526	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.600%
26) 1,2-Dichloroethane-d4	4.937	65	97327	4.685	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.800%
32) Benzene-d6	4.950	84	370118	4.343	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.800%
36) 1,2-Dichloropropane-d6	5.979	67	125235	4.915	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.200%
41) Toluene-d8	7.236	98	302111	3.861	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.200%
43) trans-1,3-Dichloroprop...	7.554	79	42263	4.334	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.600%
46) 2-Hexanone-d5	8.021	63	209797	51.402	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.800%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	104740	5.019	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.400%
66) 1,2-Dichlorobenzene-d4	11.554	152	135578	4.957	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.200%
Target Compounds						Qvalue
5) Vinyl chloride	1.278	62	249996	7.991	ug/L	98
8) Chloroethane	1.278	64	80760	4.264	ug/L #	46
12) 1,1-Dichloroethene	2.063	96	280996	12.151	ug/L #	82
16) Methylene chloride	2.439	84	521814	17.571	ug/L	99
18) trans-1,2-Dichloroethene	2.686	96	353135	13.706	ug/L	98
22) cis-1,2-Dichloroethene	3.802	96	134344	5.085	ug/L	97
27) 1,2-Dichloroethane	5.037	62	56808	2.166	ug/L	97
29) 1,1,1-Trichloroethane	4.500	97	473931	11.556	ug/L	99
31) Carbon tetrachloride	4.722	117	351740	9.874	ug/L	100
33) Benzene	4.995	78	1626083	16.356	ug/L	100
34) Trichloroethene	5.825	95	111966	4.184	ug/L	98
37) 1,2-Dichloropropane	6.082	63	320660	12.814	ug/L	100
42) Toluene	7.304	91	1842246	17.741	ug/L	98
45) 1,1,2-Trichloroethane	7.763	97	64202	3.451	ug/L	96
47) Tetrachloroethene	7.895	164	255052	12.207	ug/L	100
49) Dibromochloromethane	7.895	129	234369	11.361	ug/L #	9
51) Chlorobenzene	8.805	112	752168	10.684	ug/L	98
52) Ethylbenzene	8.937	91	1839748	16.197	ug/L	99
53) m,p-Xylene	9.062	106	622336	14.724	ug/L	100

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QLast Update : Wed Oct 23 01:16:33 2024
Response via : Initial Calibration

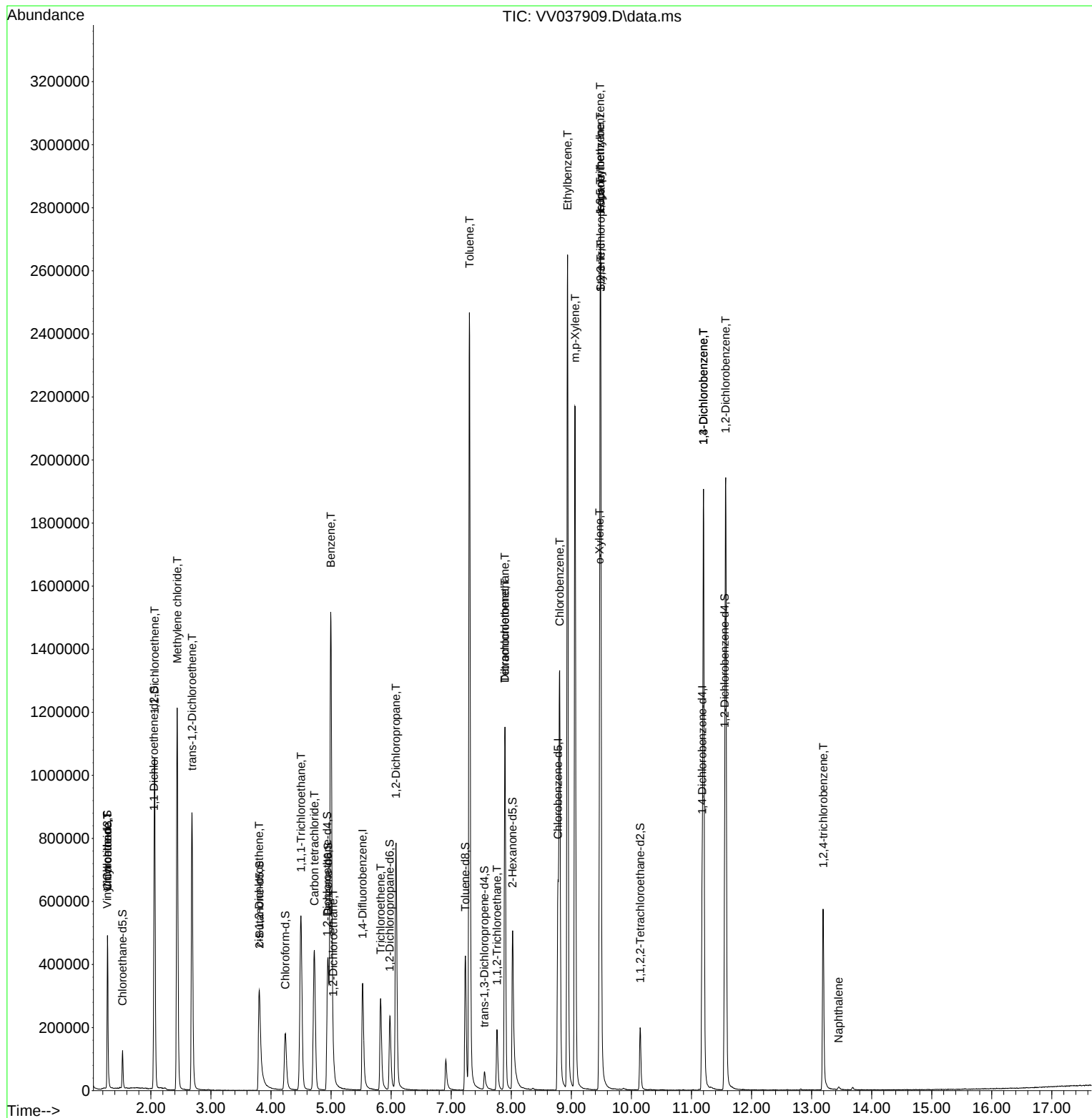
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.471	106	231303	5.600	ug/L	98
55) Styrene	9.487	104	1302908	18.386	ug/L	100
60) Isopropylbenzene	9.480	105	210013	2.055	ug/L #	1
61) 1,2,3-Trichloropropane	9.487	75	57651	4.100	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.480	105	210013	2.600	ug/L #	29
64) 1,3-Dichlorobenzene	11.201	146	759364	14.586	ug/L	98
65) 1,4-Dichlorobenzene	11.201	146	759364	14.223	ug/L	98
67) 1,2-Dichlorobenzene	11.570	146	752313	15.622	ug/L	99
70) 1,2,4-trichlorobenzene	13.194	180	189225	6.188	ug/L	98
71) Naphthalene	13.451	128	8880	0.187	ug/L	99

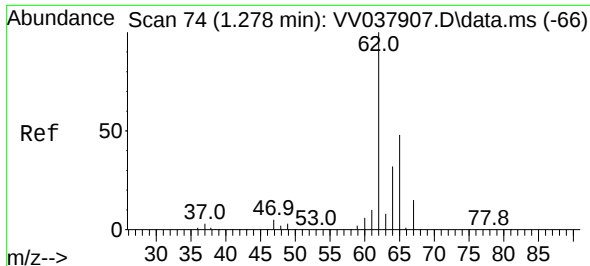
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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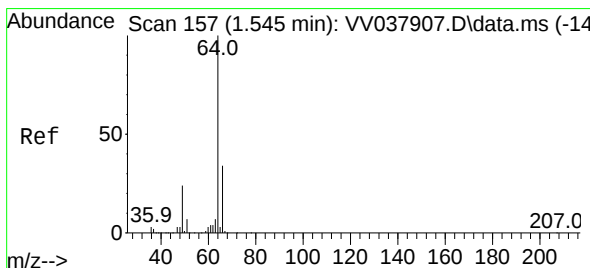
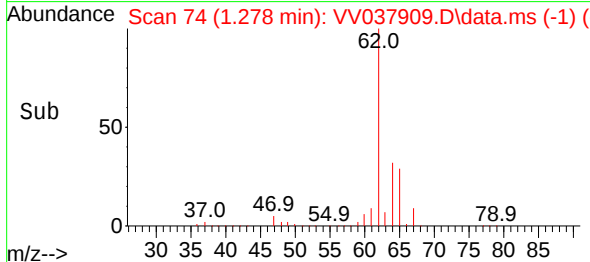
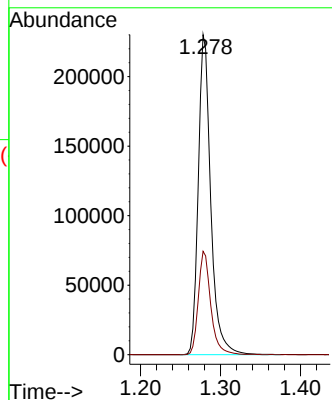
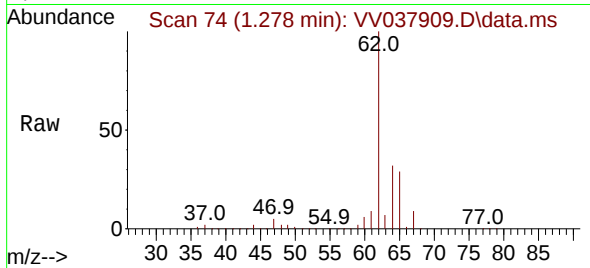




#5
 Vinyl chloride
 Concen: 7.991 ug/L
 RT: 1.278 min Scan# 74
 Delta R.T. -0.000 min
 Lab File: VV037909.D
 Acq: 22 Oct 2024 13:59

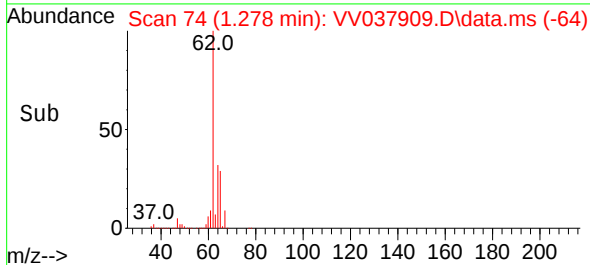
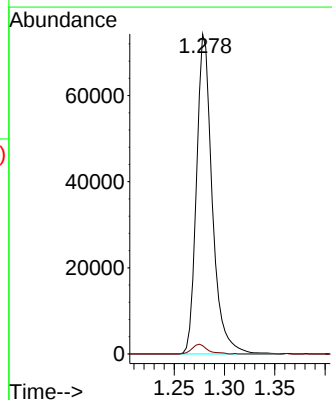
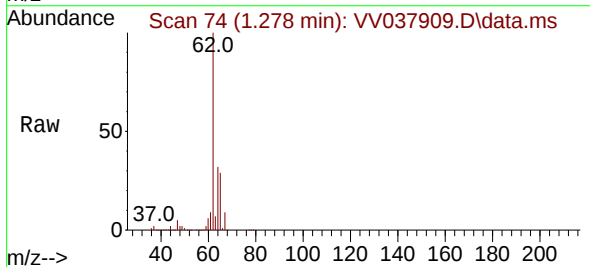
Instrument :
 MSVOA_V
 ClientSampleId :

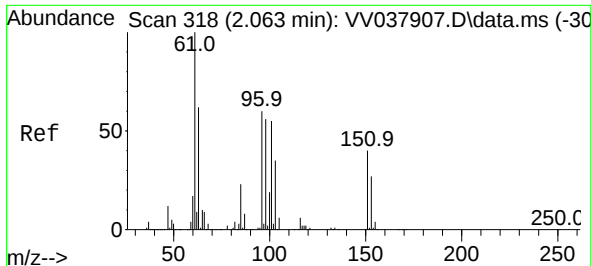
Tgt Ion: 62 Resp: 249996
 Ion Ratio Lower Upper
 62 100
 64 32.3 23.4 43.6



#8
 Chloroethane
 Concen: 4.264 ug/L
 RT: 1.278 min Scan# 74
 Delta R.T. -0.267 min
 Lab File: VV037909.D
 Acq: 22 Oct 2024 13:59

Tgt Ion: 64 Resp: 80760
 Ion Ratio Lower Upper
 64 100
 66 2.6 23.5 43.7#





#12

1,1-Dichloroethene

Concen: 12.151 ug/L

RT: 2.063 min Scan# 318

Delta R.T. -0.000 min

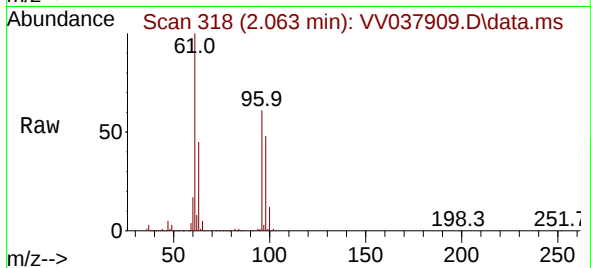
Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

Instrument :

MSVOA_V

ClientSampleId :



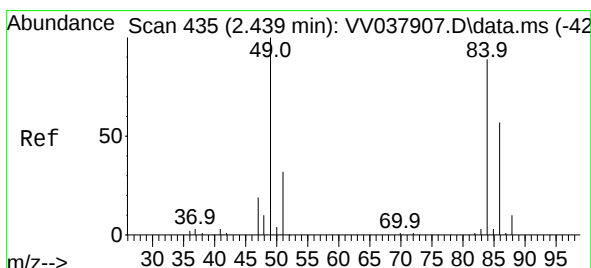
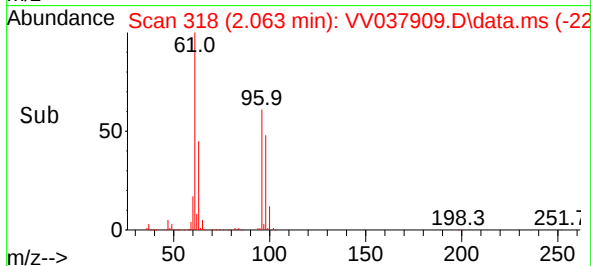
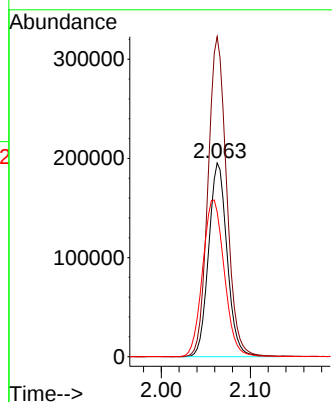
Tgt Ion: 96 Resp: 280996

Ion Ratio Lower Upper

96 100

61 165.1 116.3 215.9

63 74.7 84.9 157.7#



#16

Methylene chloride

Concen: 17.571 ug/L

RT: 2.439 min Scan# 435

Delta R.T. -0.000 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

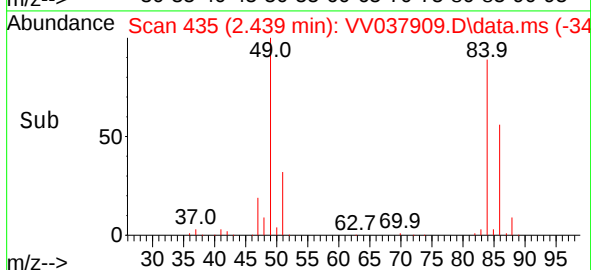
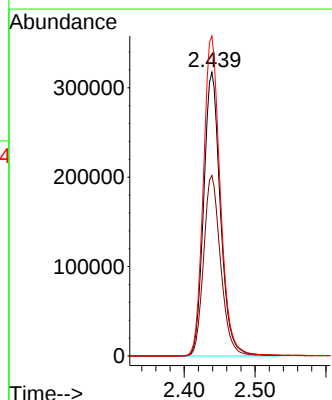
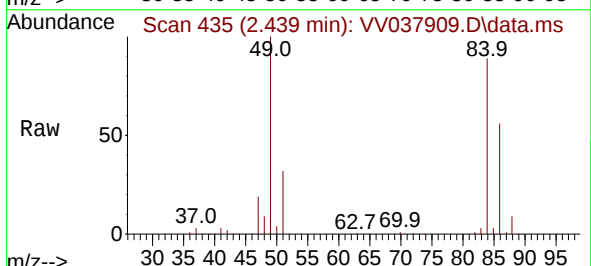
Tgt Ion: 84 Resp: 521814

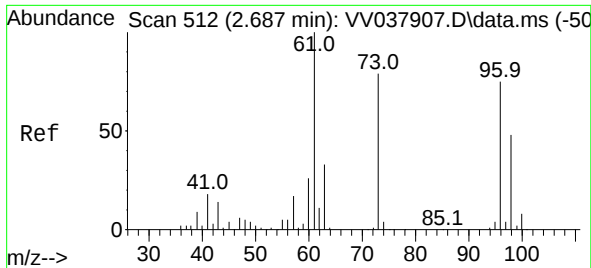
Ion Ratio Lower Upper

84 100

86 63.6 44.0 81.6

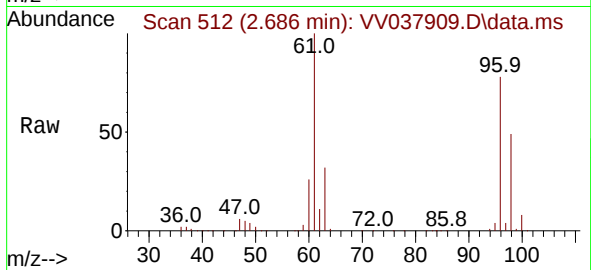
49 112.8 78.8 146.4



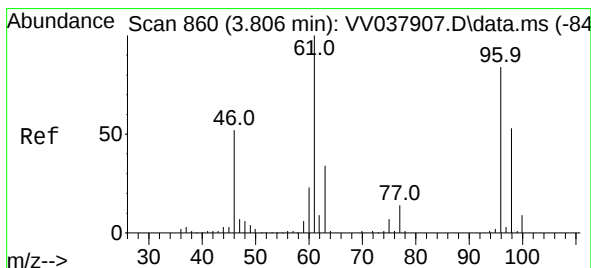
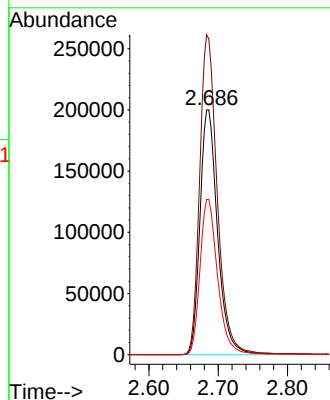
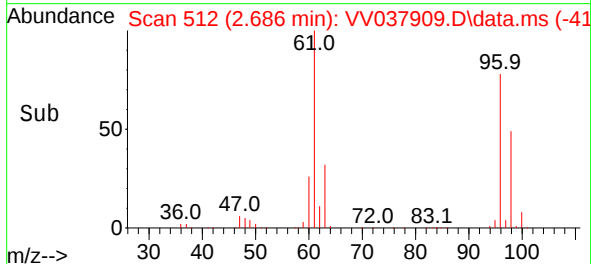


#18
trans-1,2-Dichloroethene
Concen: 13.706 ug/L
RT: 2.686 min Scan# 512
Delta R.T. -0.000 min
Lab File: VV037909.D
Acq: 22 Oct 2024 13:59

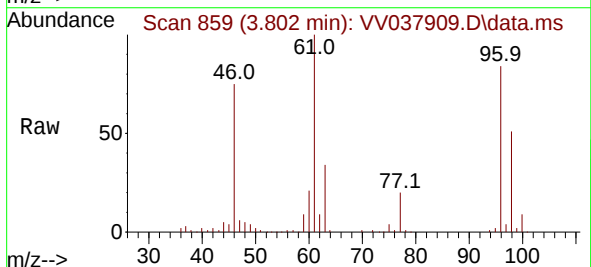
Instrument :
MSVOA_V
ClientSampleId :



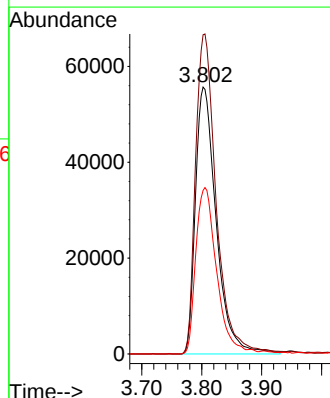
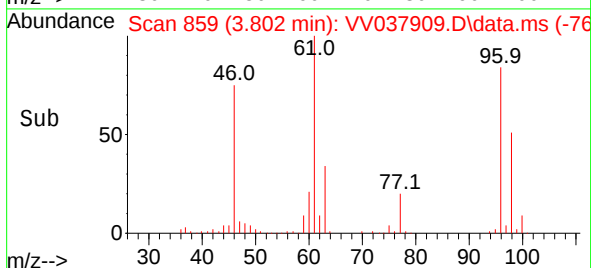
Tgt Ion: 96 Resp: 353135
Ion Ratio Lower Upper
96 100
61 128.9 88.4 164.2
98 63.4 44.6 82.8

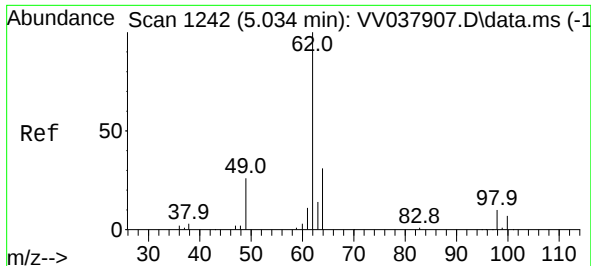


#22
cis-1,2-Dichloroethene
Concen: 5.085 ug/L
RT: 3.802 min Scan# 859
Delta R.T. -0.003 min
Lab File: VV037909.D
Acq: 22 Oct 2024 13:59



Tgt Ion: 96 Resp: 134344
Ion Ratio Lower Upper
96 100
61 119.6 85.5 158.9
98 61.2 45.5 84.5

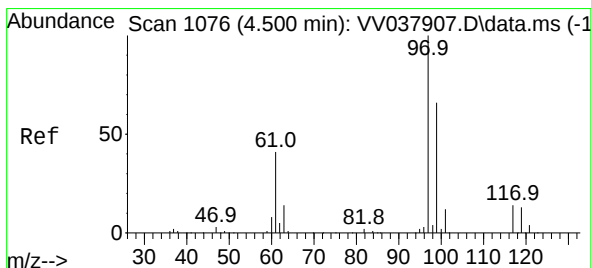
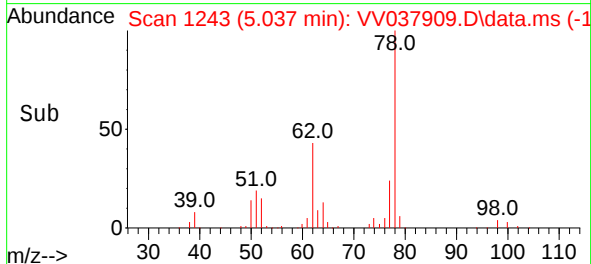
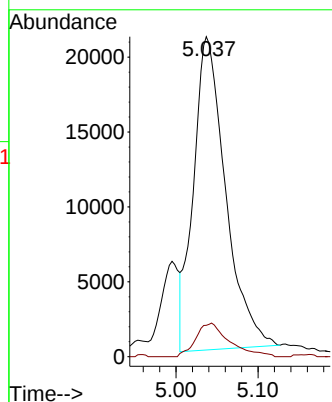
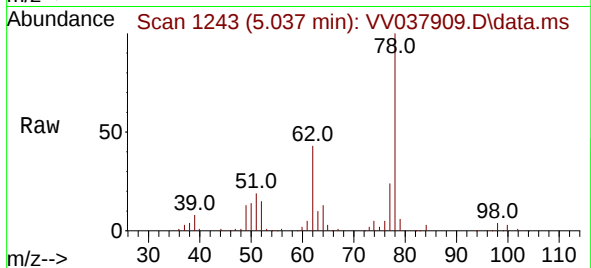




#27
1,2-Dichloroethane
Concen: 2.166 ug/L
RT: 5.037 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV037909.D
Acq: 22 Oct 2024 13:59

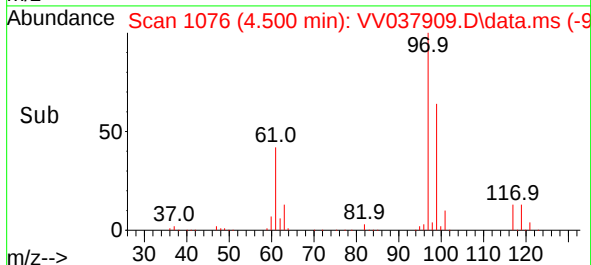
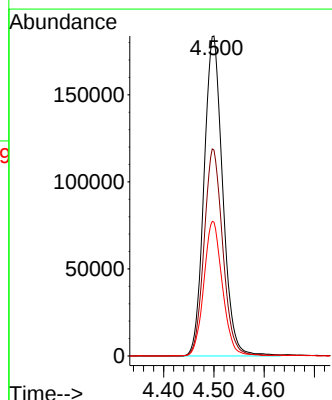
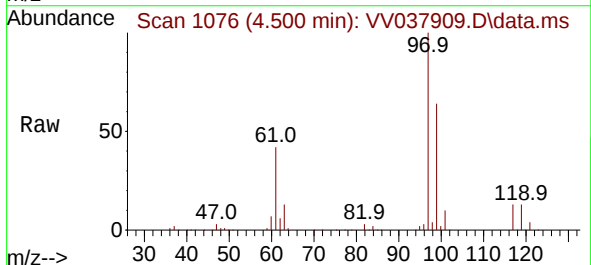
Instrument :
MSVOA_V
ClientSampleId :

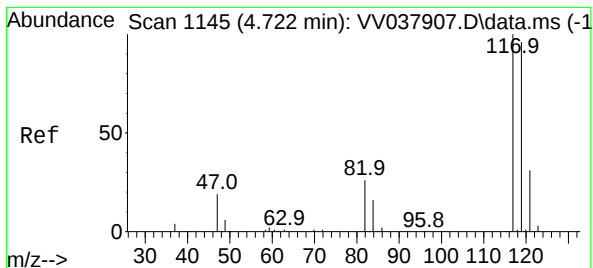
Tgt Ion: 62 Resp: 56808
Ion Ratio Lower Upper
62 100
98 9.8 8.8 13.2



#29
1,1,1-Trichloroethane
Concen: 11.556 ug/L
RT: 4.500 min Scan# 1076
Delta R.T. -0.000 min
Lab File: VV037909.D
Acq: 22 Oct 2024 13:59

Tgt Ion: 97 Resp: 473931
Ion Ratio Lower Upper
97 100
99 64.5 51.9 77.9
61 41.5 33.9 50.9





#31

Carbon tetrachloride

Concen: 9.874 ug/L

RT: 4.722 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

Instrument :

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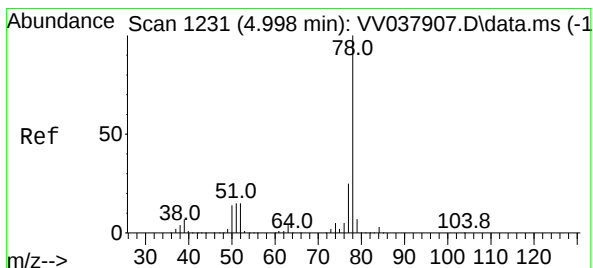
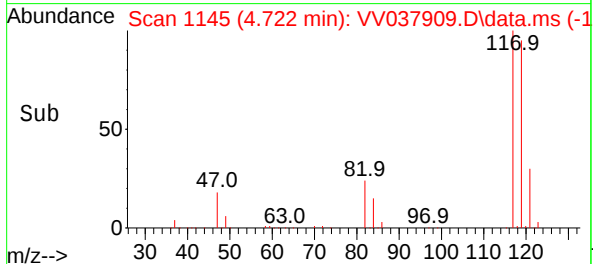
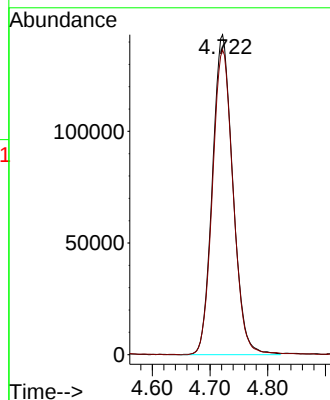
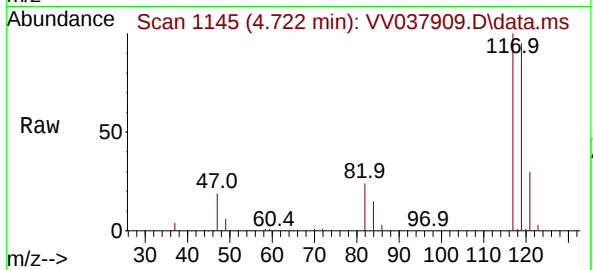
ClientSampleId :

Tgt Ion:117 Resp: 351740

Ion Ratio Lower Upper

117 100

119 96.8 77.4 116.0



#33

Benzene

Concen: 16.356 ug/L

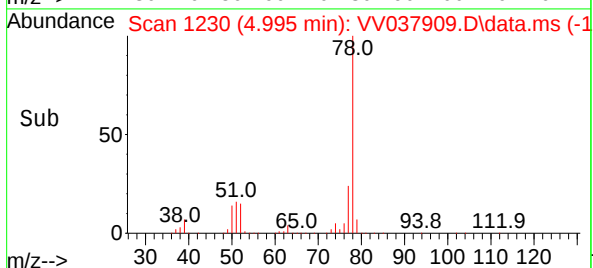
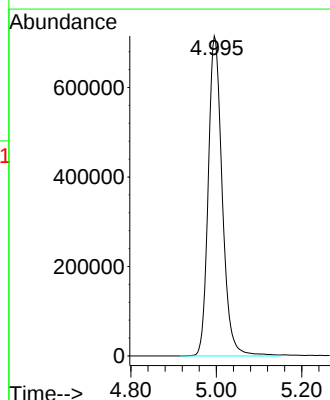
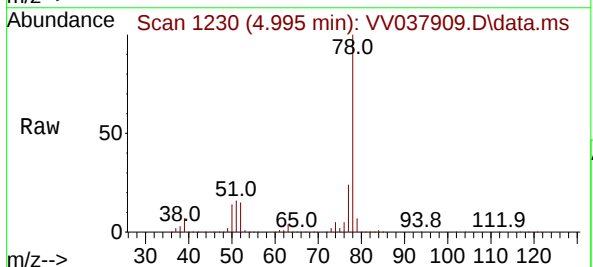
RT: 4.995 min Scan# 1230

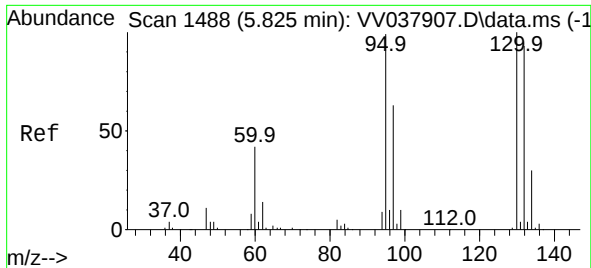
Delta R.T. -0.003 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

Tgt Ion: 78 Resp: 1626083





#34

Trichloroethene

Concen: 4.184 ug/L

RT: 5.825 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 111966

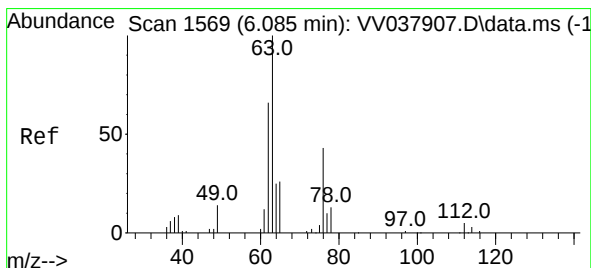
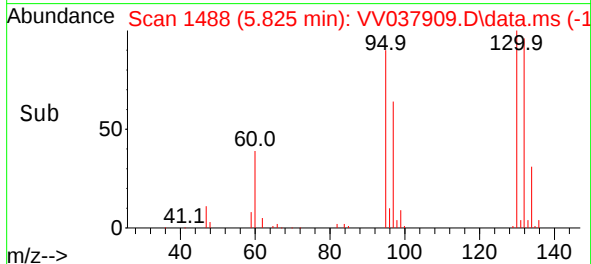
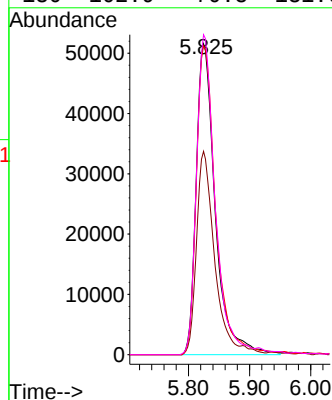
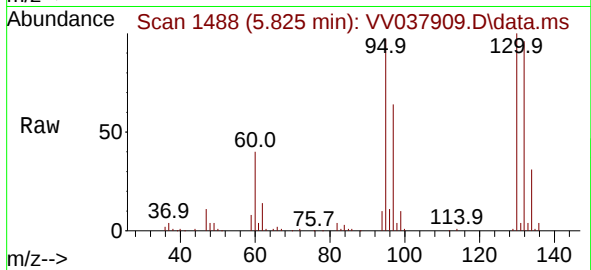
Ion Ratio Lower Upper

95 100

97 65.4 46.1 85.5

132 99.3 67.3 124.9

130 102.9 70.8 131.6



#37

1,2-Dichloropropane

Concen: 12.814 ug/L

RT: 6.082 min Scan# 1568

Delta R.T. -0.003 min

Lab File: VV037909.D

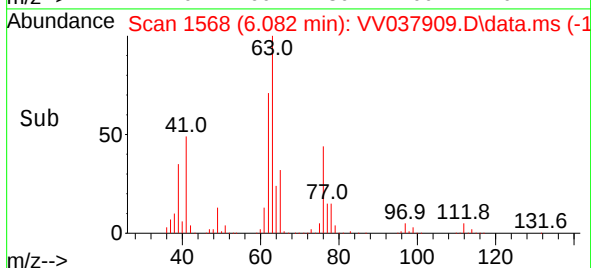
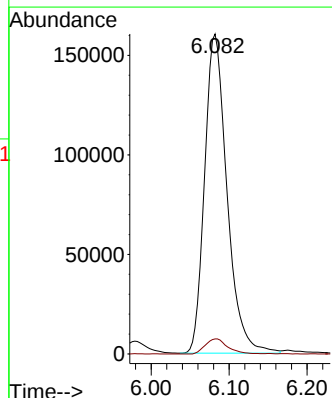
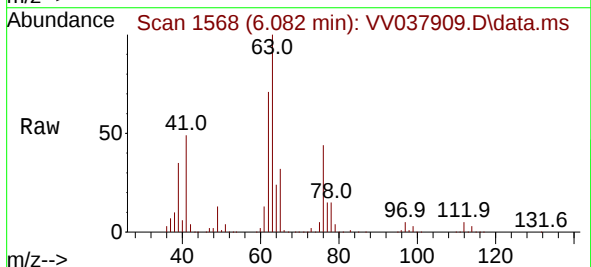
Acq: 22 Oct 2024 13:59

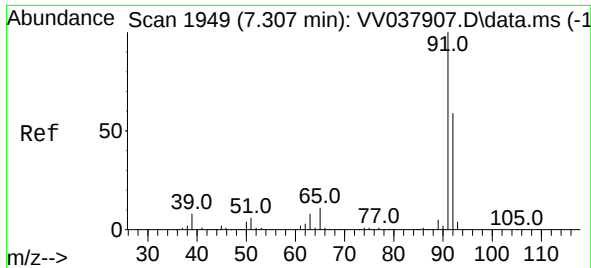
Tgt Ion: 63 Resp: 320660

Ion Ratio Lower Upper

63 100

112 4.7 3.9 5.9

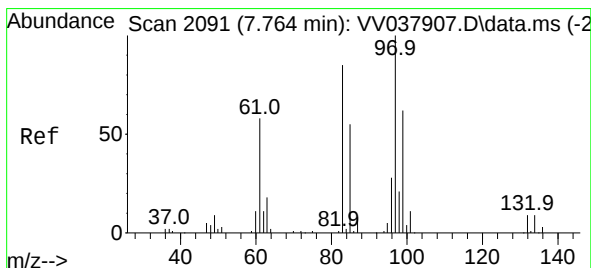
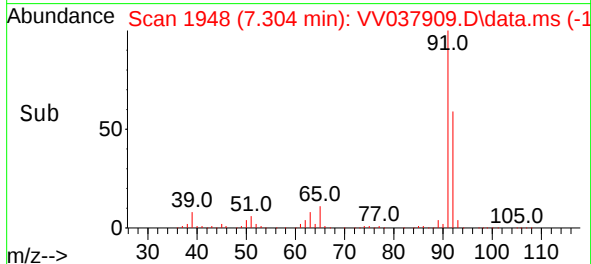
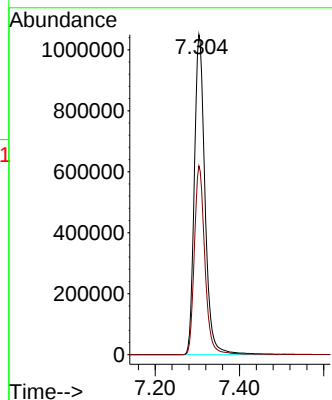
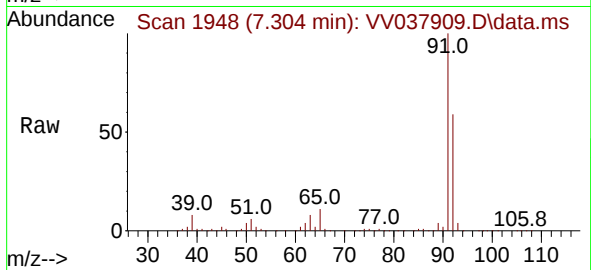




#42
Toluene
Concen: 17.741 ug/L
RT: 7.304 min Scan# 1949
Delta R.T. -0.003 min
Lab File: VV037909.D
Acq: 22 Oct 2024 13:59

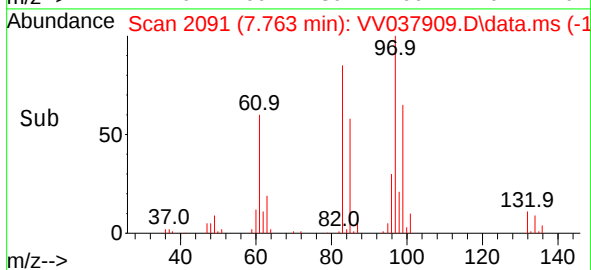
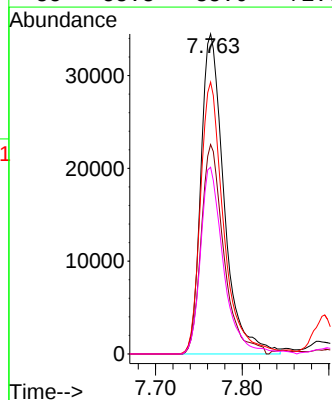
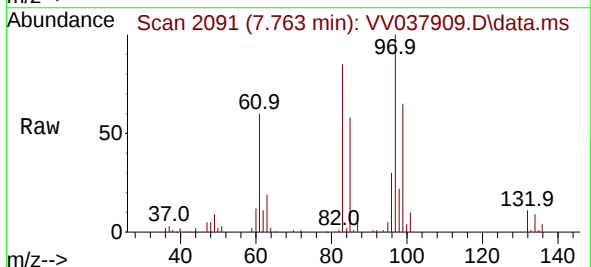
Instrument :
MSVOA_V
ClientSampleId :

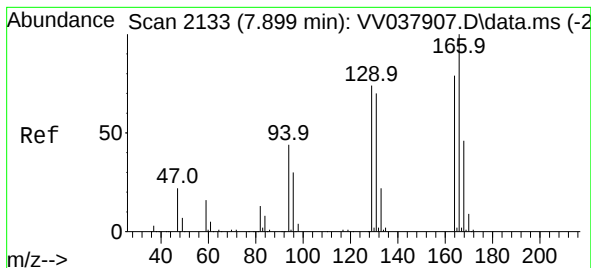
Tgt Ion: 91 Resp: 1842246
Ion Ratio Lower Upper
91 100
92 59.0 40.3 74.9



#45
1,1,2-Trichloroethane
Concen: 3.451 ug/L
RT: 7.763 min Scan# 2091
Delta R.T. -0.000 min
Lab File: VV037909.D
Acq: 22 Oct 2024 13:59

Tgt Ion: 97 Resp: 64202
Ion Ratio Lower Upper
97 100
99 65.4 43.5 80.7
83 84.9 61.0 113.2
85 58.3 38.6 71.6





#47

Tetrachloroethene

Concen: 12.207 ug/L

RT: 7.895 min Scan# 2132

Delta R.T. -0.003 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:164 Resp: 255052

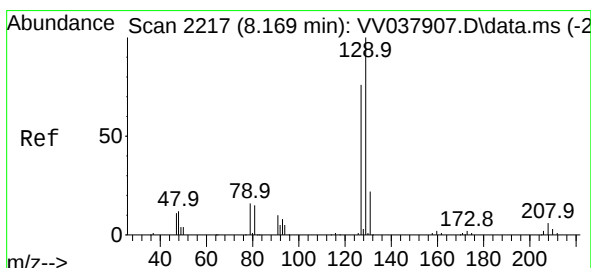
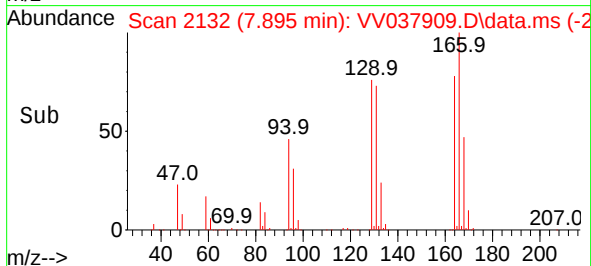
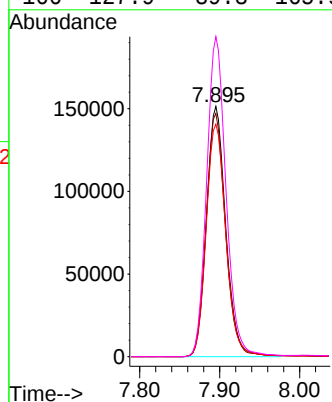
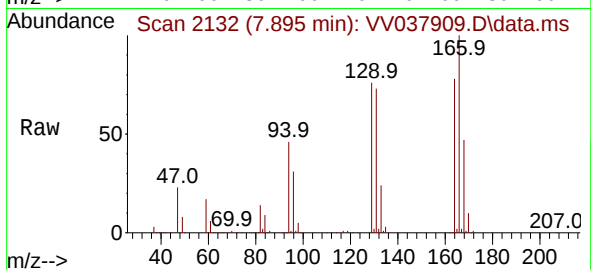
Ion Ratio Lower Upper

164 100

129 97.2 68.7 127.7

131 92.9 65.0 120.8

166 127.9 89.3 165.9



#49

Dibromochloromethane

Concen: 11.361 ug/L

RT: 7.895 min Scan# 2132

Delta R.T. -0.273 min

Lab File: VV037909.D

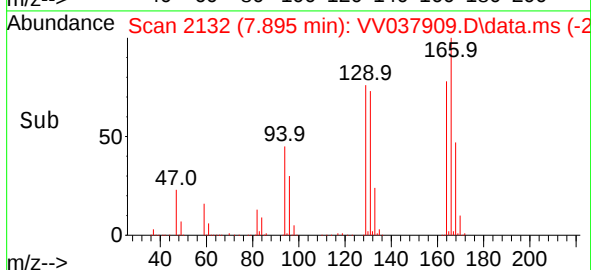
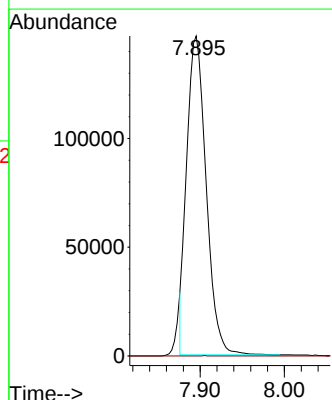
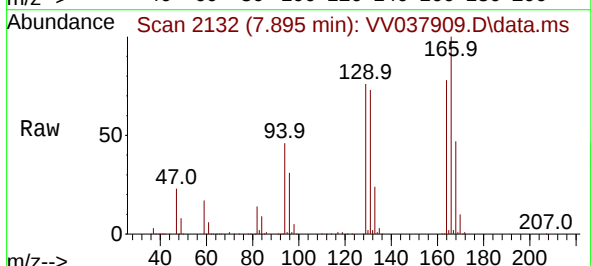
Acq: 22 Oct 2024 13:59

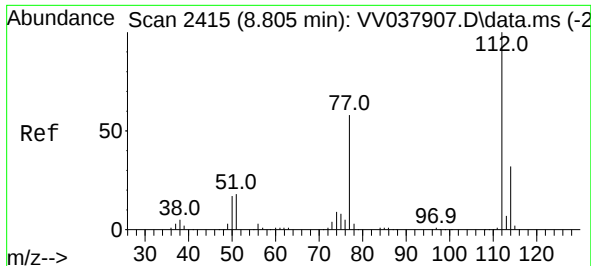
Tgt Ion:129 Resp: 234369

Ion Ratio Lower Upper

129 100

127 0.0 55.8 103.6#





#51

Chlorobenzene

Concen: 10.684 ug/L

RT: 8.805 min Scan# 2415

Delta R.T. -0.000 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

Instrument :

MSVOA_V

ClientSampleId :

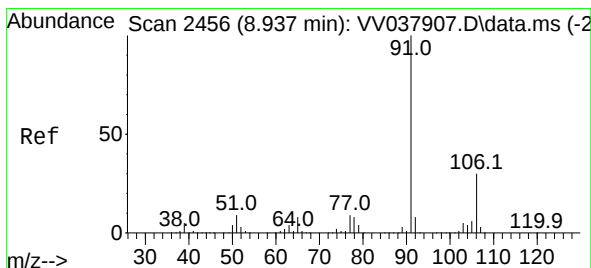
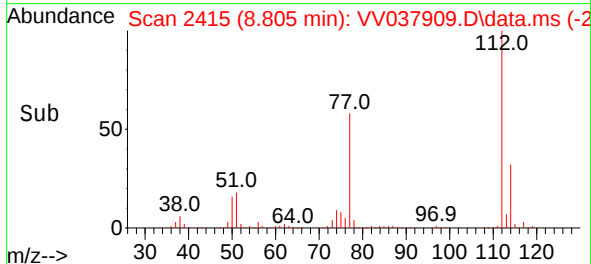
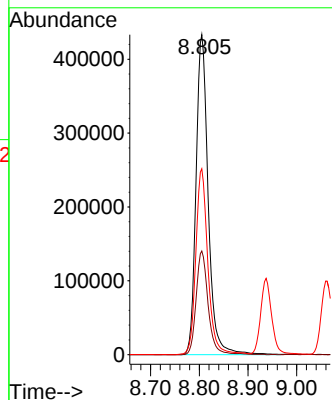
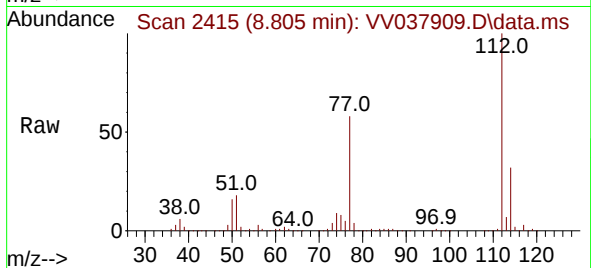
Tgt Ion:112 Resp: 752168

Ion Ratio Lower Upper

112 100

114 32.4 22.0 41.0

77 58.1 45.3 67.9



#52

Ethylbenzene

Concen: 16.197 ug/L

RT: 8.937 min Scan# 2456

Delta R.T. -0.000 min

Lab File: VV037909.D

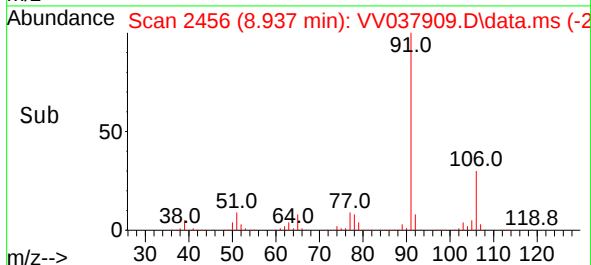
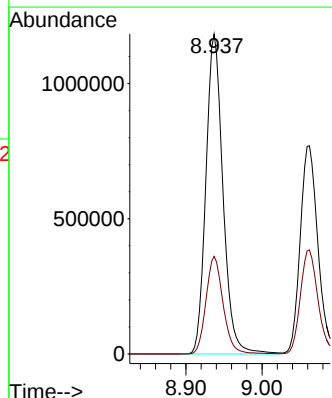
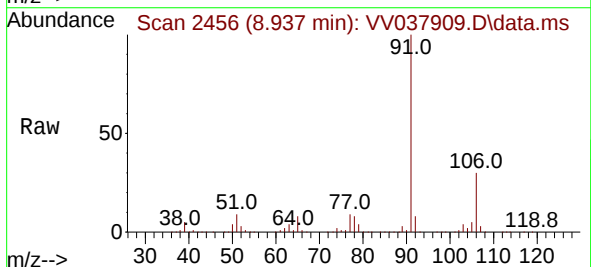
Acq: 22 Oct 2024 13:59

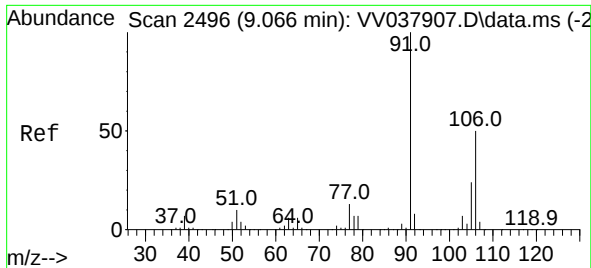
Tgt Ion: 91 Resp: 1839748

Ion Ratio Lower Upper

91 100

106 30.5 21.6 40.0





#53

m,p-Xylene

Concen: 14.724 ug/L

RT: 9.062 min Scan# 2496

Delta R.T. -0.003 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

Instrument :

MSVOA_V

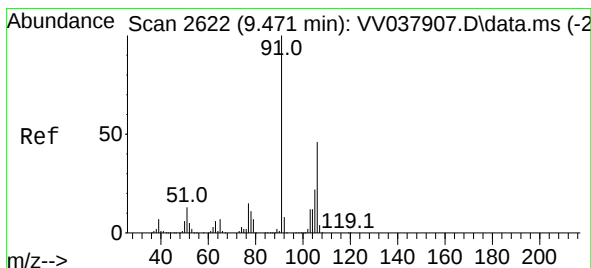
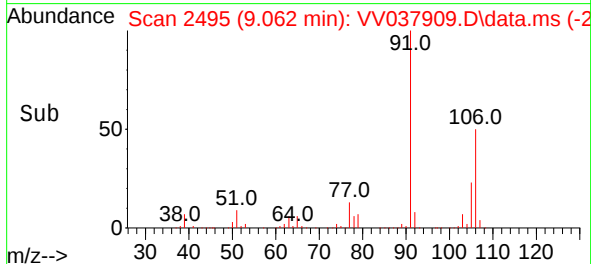
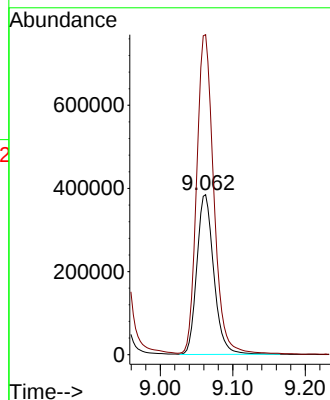
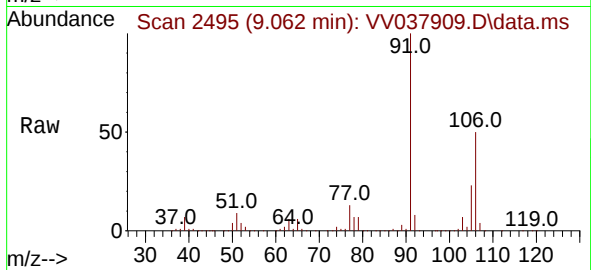
ClientSampleId :

Tgt Ion:106 Resp: 622336

Ion Ratio Lower Upper

106 100

91 200.1 140.0 260.0



#54

o-Xylene

Concen: 5.600 ug/L

RT: 9.471 min Scan# 2622

Delta R.T. -0.000 min

Lab File: VV037909.D

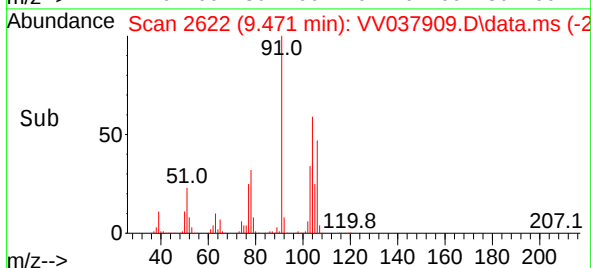
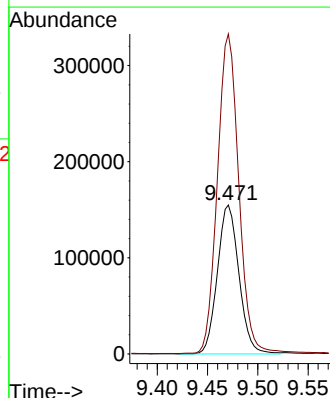
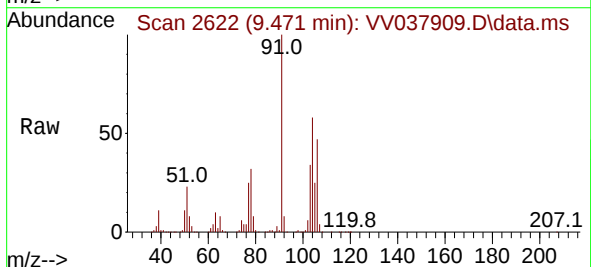
Acq: 22 Oct 2024 13:59

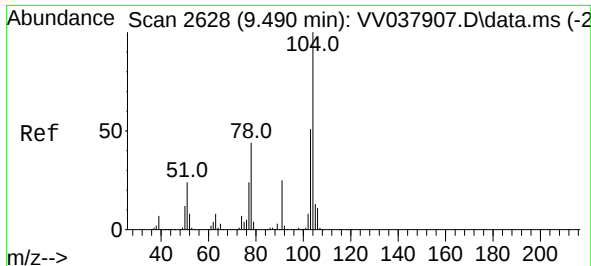
Tgt Ion:106 Resp: 231303

Ion Ratio Lower Upper

106 100

91 214.8 152.1 282.5





#55

Styrene

Concen: 18.386 ug/L

RT: 9.487 min Scan# 2627

Delta R.T. -0.003 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

Instrument :

MSVOA_V

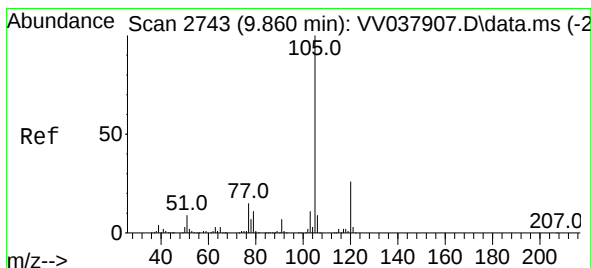
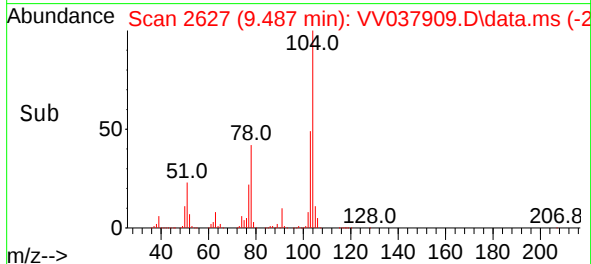
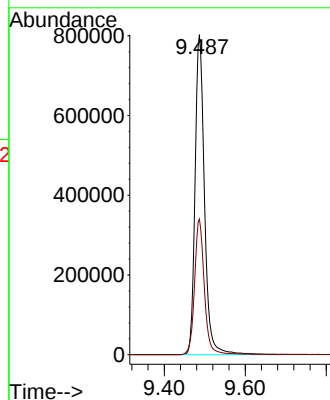
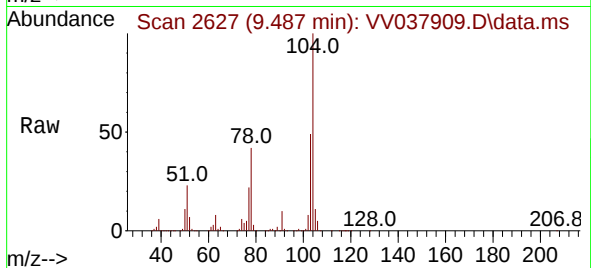
ClientSampleId :

Tgt Ion:104 Resp: 1302908

Ion Ratio Lower Upper

104 100

78 42.4 29.7 55.1



#60

Isopropylbenzene

Concen: 2.055 ug/L

RT: 9.480 min Scan# 2625

Delta R.T. -0.380 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

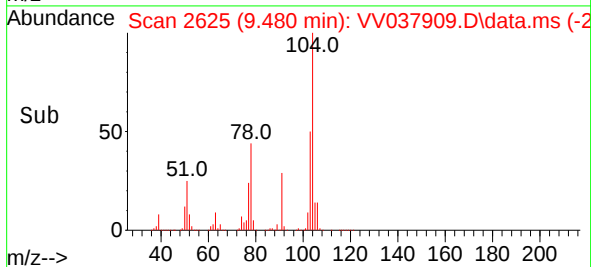
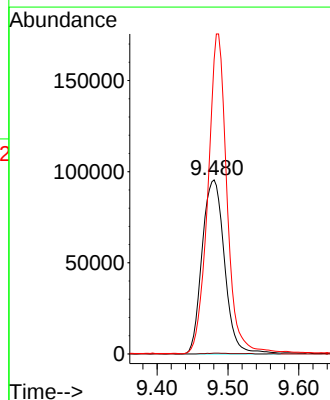
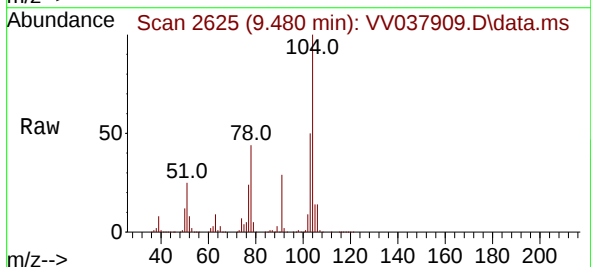
Tgt Ion:105 Resp: 210013

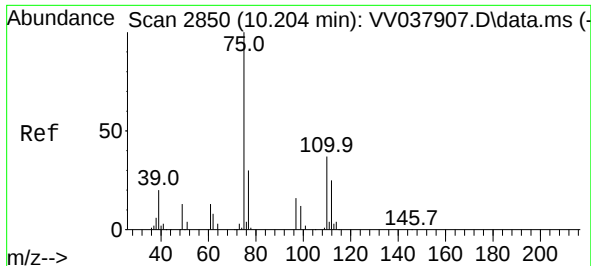
Ion Ratio Lower Upper

105 100

120 0.3 21.2 31.8#

77 155.8 12.3 18.5#





#61

1,2,3-Trichloropropane

Concen: 4.100 ug/L

RT: 9.487 min Scan# 2627

Delta R.T. -0.717 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

Instrument :

MSVOA_V

ClientSampleId :

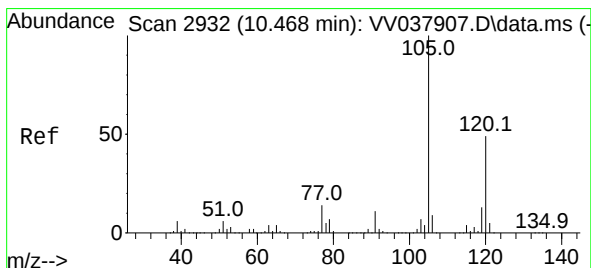
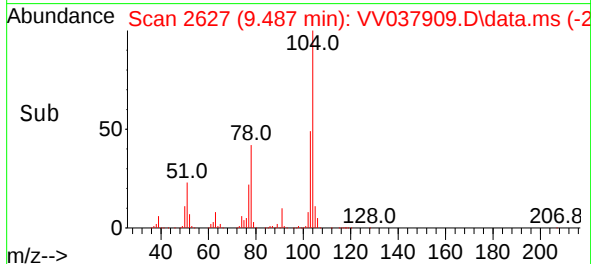
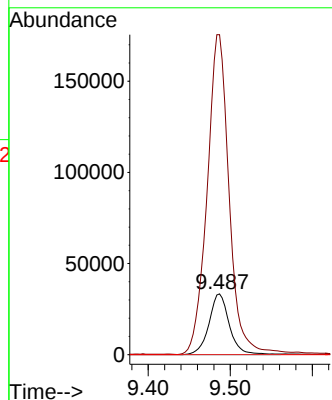
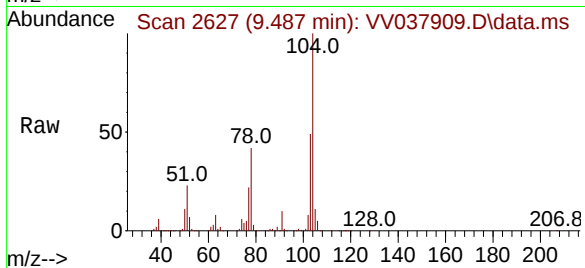
Tgt Ion: 75 Resp: 57651

Ion Ratio Lower Upper

75 100

77 567.5 25.4 38.2#

110 0.0 31.8 47.8#



#62

1,3,5-Trimethylbenzene

Concen: 2.600 ug/L

RT: 9.480 min Scan# 2625

Delta R.T. -0.987 min

Lab File: VV037909.D

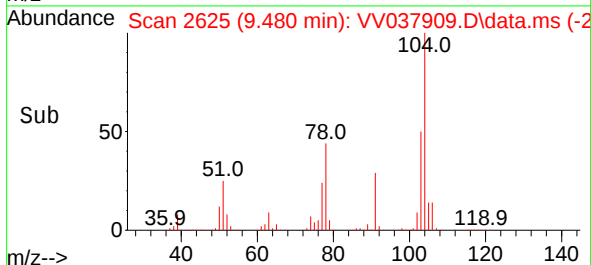
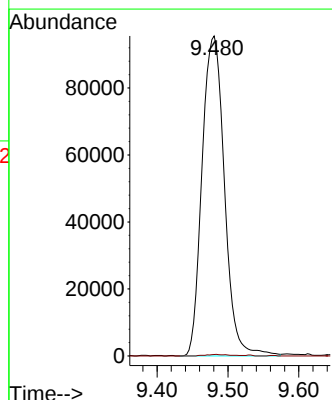
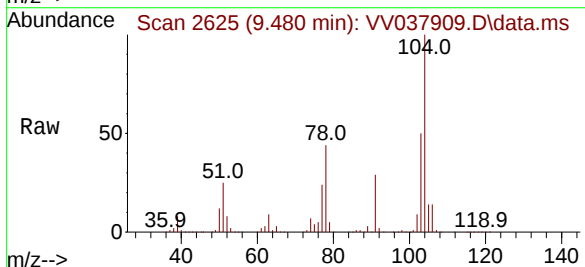
Acq: 22 Oct 2024 13:59

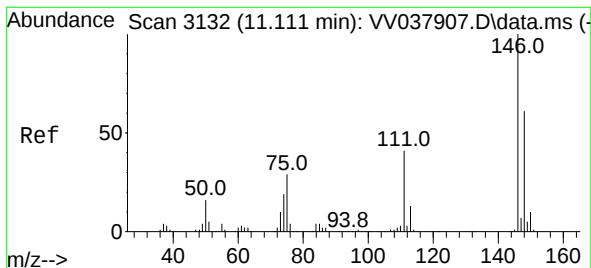
Tgt Ion: 105 Resp: 210013

Ion Ratio Lower Upper

105 100

120 0.3 39.0 58.4#





#64

1,3-Dichlorobenzene

Concen: 14.586 ug/L

RT: 11.201 min Scan# 3160

Delta R.T. 0.090 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

Instrument :

MSVOA_V

ClientSampleId :

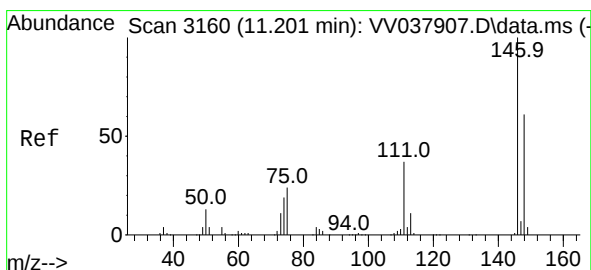
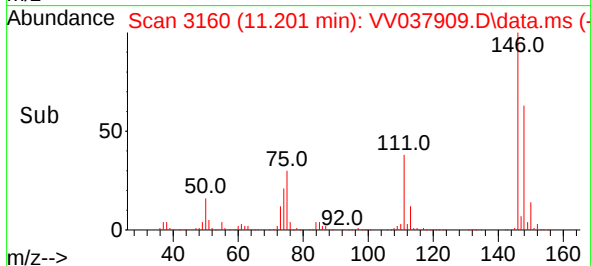
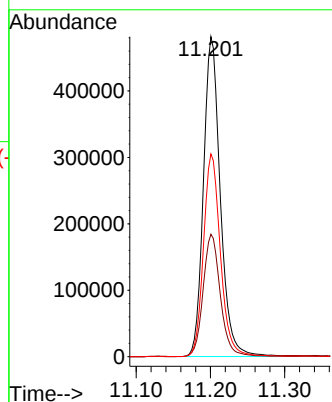
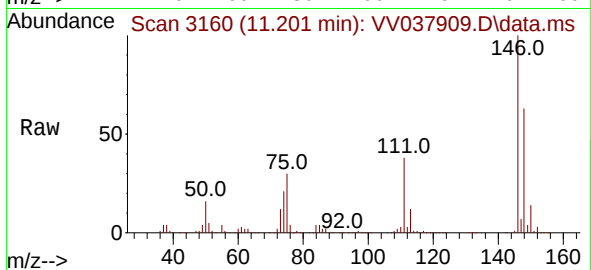
Tgt Ion:146 Resp: 759364

Ion Ratio Lower Upper

146 100

111 38.2 28.6 53.0

148 63.3 44.1 81.9



#65

1,4-Dichlorobenzene

Concen: 14.223 ug/L

RT: 11.201 min Scan# 3160

Delta R.T. -0.000 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

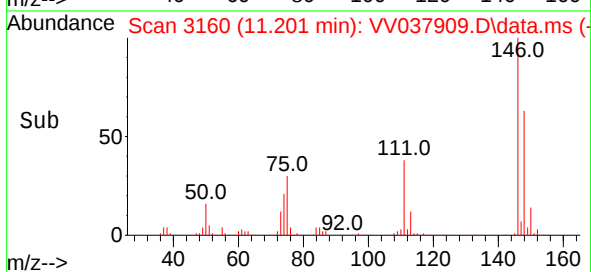
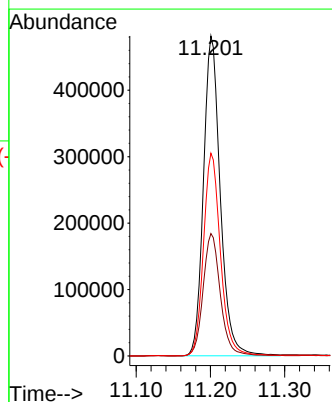
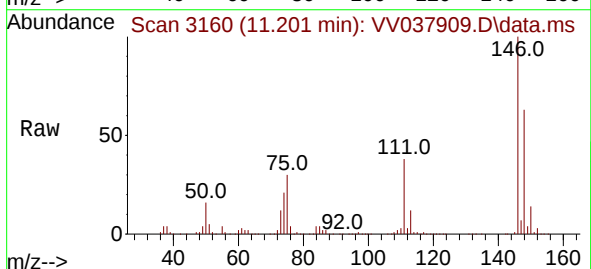
Tgt Ion:146 Resp: 759364

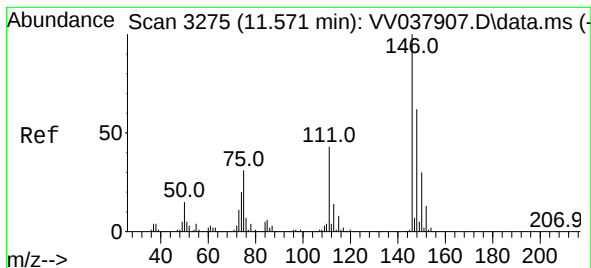
Ion Ratio Lower Upper

146 100

111 38.2 28.1 52.1

148 63.3 44.9 83.3





#67

1,2-Dichlorobenzene

Concen: 15.622 ug/L

RT: 11.570 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

Instrument :

MSVOA_V

ClientSampleId :

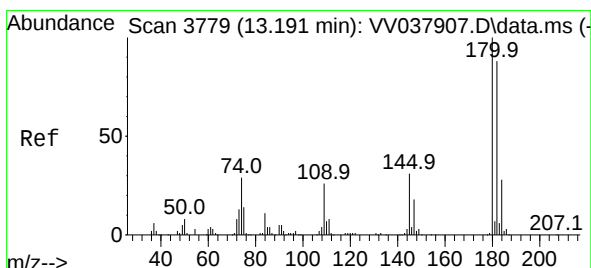
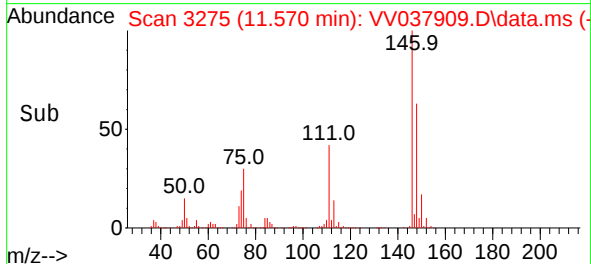
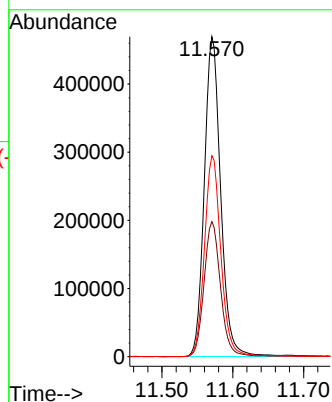
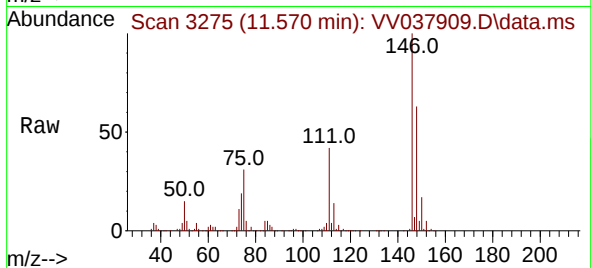
Tgt Ion:146 Resp: 752313

Ion Ratio Lower Upper

146 100

111 42.2 34.6 51.8

148 62.8 50.8 76.2



#70

1,2,4-trichlorobenzene

Concen: 6.188 ug/L

RT: 13.194 min Scan# 3780

Delta R.T. 0.003 min

Lab File: VV037909.D

Acq: 22 Oct 2024 13:59

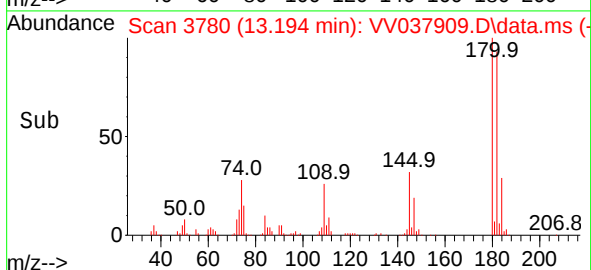
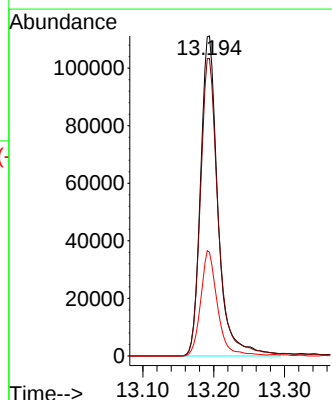
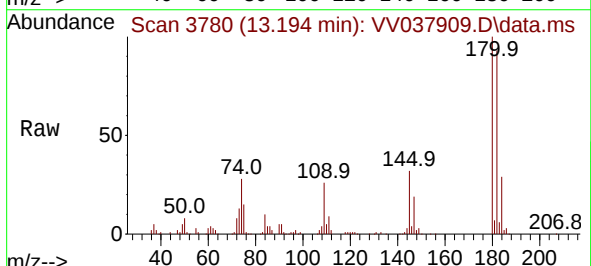
Tgt Ion:180 Resp: 189225

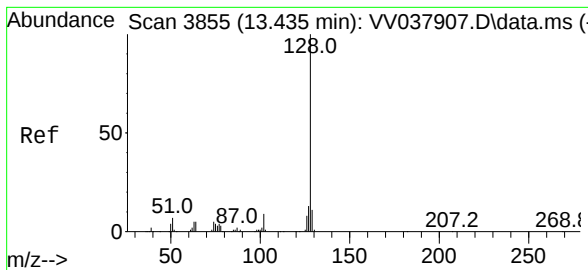
Ion Ratio Lower Upper

180 100

182 95.2 74.6 112.0

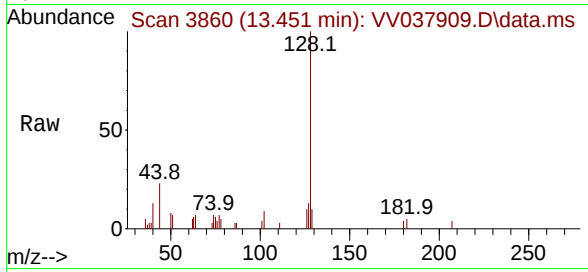
145 31.8 24.2 36.2





#71
Naphthalene
Concen: 0.187 ug/L
RT: 13.451 min Scan# 3860
Delta R.T. 0.016 min
Lab File: VV037909.D
Acq: 22 Oct 2024 13:59

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:	128	Resp:	8880
Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.4	12.6
127	12.5	9.7	14.5

