

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV111124\
 Data File : VV037995.D
 Acq On : 11 Nov 2024 13:56
 Operator : SY/MD
 Sample : P4749-22
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 12 04:40:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110624WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 12 04:39:46 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.526	114	324617	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	340907	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	162124	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	104812	4.218	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.400%
7) Chloroethane-d5	1.529	69	79779	3.940	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.800%
11) 1,1-Dichloroethene-d2	2.053	65	44778	4.153	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.000%
20) 2-Butanone-d5	3.828	46	160286	34.611	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	69.220%
24) Chloroform-d	4.236	84	188704	4.166	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.400%
26) 1,2-Dichloroethane-d4	4.937	65	88046	4.350	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.000%
32) Benzene-d6	4.950	84	361578	4.113	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.200%
36) 1,2-Dichloropropane-d6	5.982	67	114520	4.461	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.200%
41) Toluene-d8	7.236	98	303084	3.836	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.800%
43) trans-1,3-Dichloroprop...	7.558	79	37055	3.733	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.600%
46) 2-Hexanone-d5	8.024	63	154999	40.178	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	80.360%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	89714	4.334	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.600%
66) 1,2-Dichlorobenzene-d4	11.551	152	128433	4.803	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.278	62	1039529	34.260	ug/L	100
8) Chloroethane	1.278	64	335650	18.593	ug/L #	43
12) 1,1-Dichloroethene	2.063	96	333651	15.048	ug/L #	76
16) Methylene chloride	2.439	84	250991	9.696	ug/L	98
18) trans-1,2-Dichloroethene	2.687	96	155076	6.475	ug/L	96
22) cis-1,2-Dichloroethene	3.809	96	51245	2.031	ug/L	100
27) 1,2-Dichloroethane	5.037	62	101045	3.990	ug/L	99
29) 1,1,1-Trichloroethane	4.497	97	633853	15.553	ug/L	99
31) Carbon tetrachloride	4.725	117	107945	3.018	ug/L	100
33) Benzene	5.002	78	217138	2.318	ug/L	100
34) Trichloroethene	5.825	95	150753	5.811	ug/L	99
37) 1,2-Dichloropropane	6.082	63	181555	7.754	ug/L	99
42) Toluene	7.307	91	799089	8.061	ug/L	100
45) 1,1,2-Trichloroethane	7.760	97	195070	11.007	ug/L	98
47) Tetrachloroethene	7.895	164	288071	14.286	ug/L	99
49) Dibromochloromethane	7.895	129	263621	13.012	ug/L #	12
51) Chlorobenzene	8.805	112	971573	14.331	ug/L	98
52) Ethylbenzene	8.940	91	215651	2.020	ug/L	99
53) m,p-Xylene	9.063	106	603629	14.821	ug/L	98

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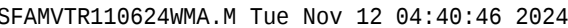
Instrument :
MSVOA_V
ClientSampleId :

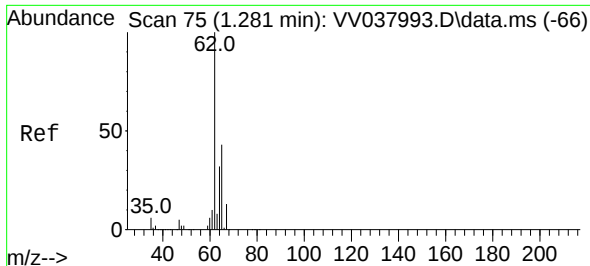
Quant Time: Nov 12 04:40:36 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110624WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Nov 12 04:39:46 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.471	106	137736	3.553	ug/L	96
55) Styrene	9.490	104	169172	2.534	ug/L	100
60) Isopropylbenzene	9.471	105	76303	0.808	ug/L #	3
61) 1,2,3-Trichloropropane	9.490	75	10148	0.800	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.471	105	76303	1.027	ug/L #	29
64) 1,3-Dichlorobenzene	11.201	146	950922	19.880	ug/L	98
65) 1,4-Dichlorobenzene	11.201	146	950922	19.250	ug/L	99
67) 1,2-Dichlorobenzene	11.570	146	421695	9.534	ug/L	100
70) 1,2,4-trichlorobenzene	13.191	180	218955	8.259	ug/L	98

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

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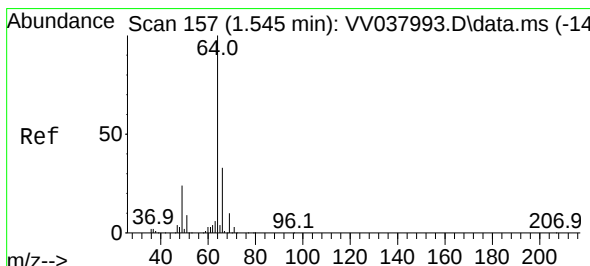
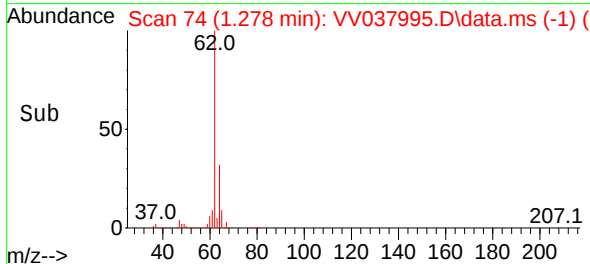
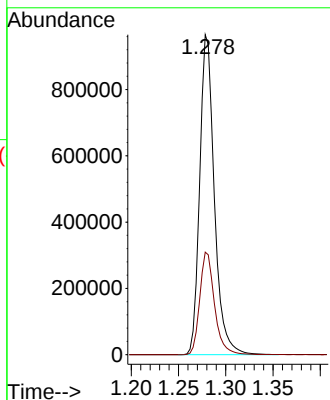
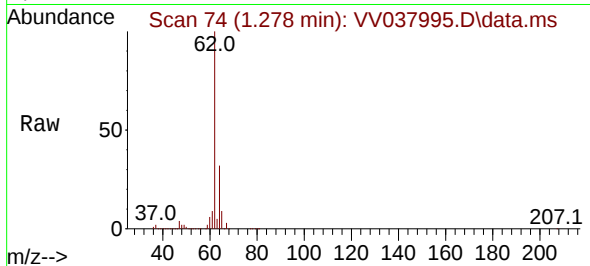




#5
 Vinyl chloride
 Concen: 34.260 ug/L
 RT: 1.278 min Scan# 74
 Delta R.T. -0.003 min
 Lab File: VV037995.D
 Acq: 11 Nov 2024 13:56

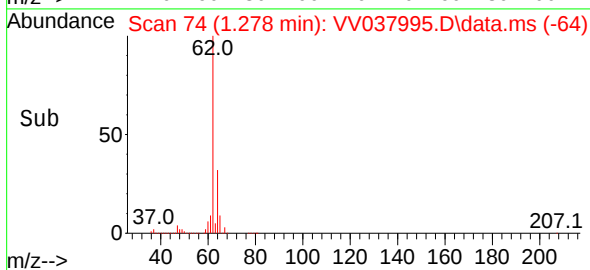
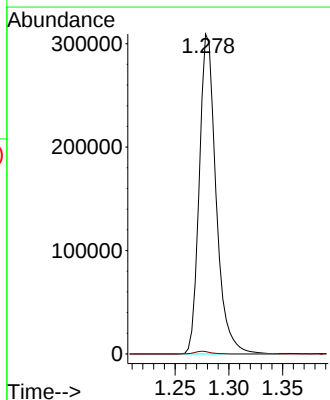
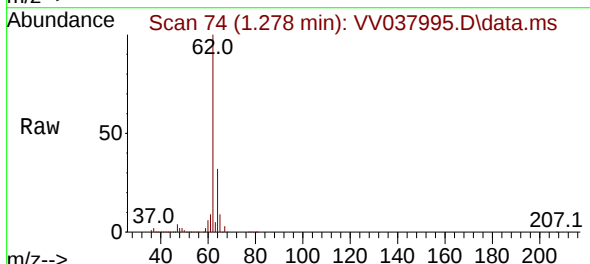
Instrument :
 MSVOA_V
 ClientSampleId :

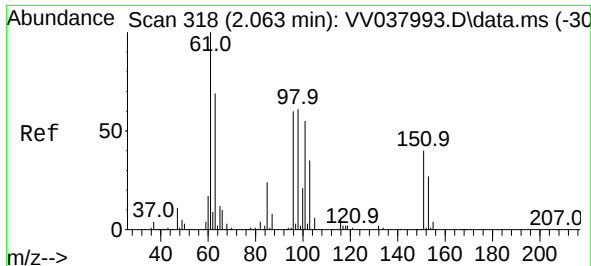
Tgt Ion: 62 Resp: 1039529
 Ion Ratio Lower Upper
 62 100
 64 32.0 22.4 41.6



#8
 Chloroethane
 Concen: 18.593 ug/L
 RT: 1.278 min Scan# 74
 Delta R.T. -0.267 min
 Lab File: VV037995.D
 Acq: 11 Nov 2024 13:56

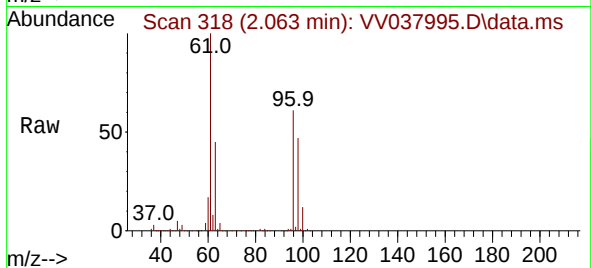
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 Ion Ratio Lower Upper
 64 100
 66 0.8 23.0 42.8#



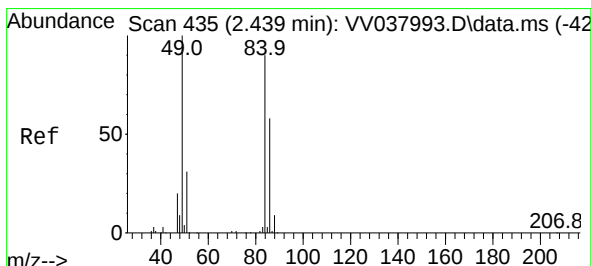
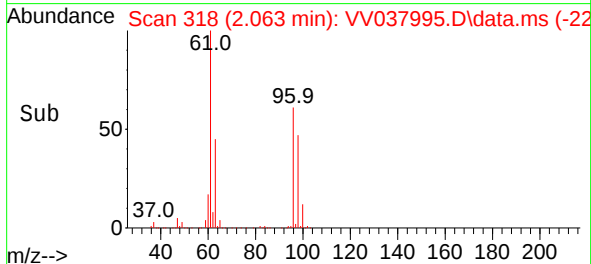
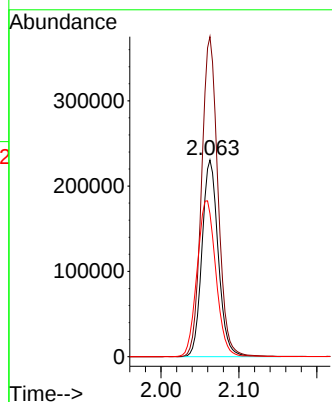


#12
1,1-Dichloroethene
Concen: 15.048 ug/L
RT: 2.063 min Scan# 318
Delta R.T. 0.000 min
Lab File: VV037995.D
Acq: 11 Nov 2024 13:56

Instrument :
MSVOA_V
ClientSampleId :

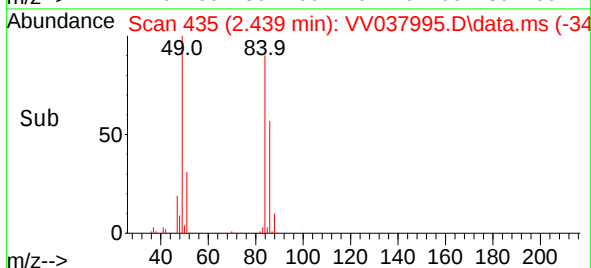
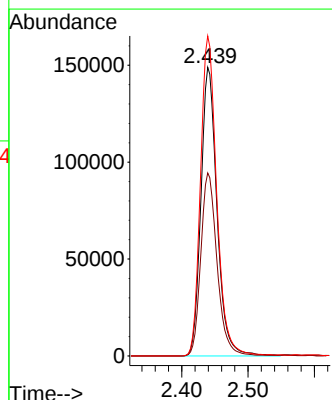
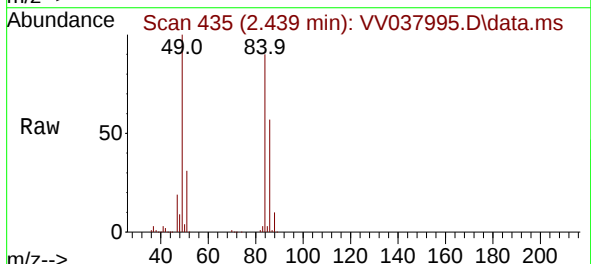


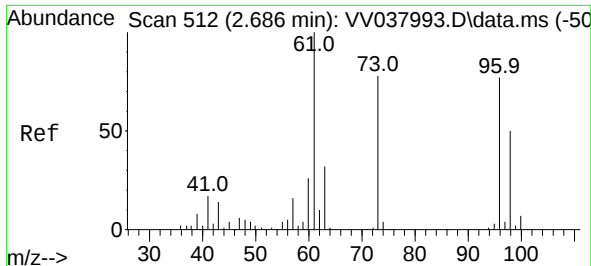
Tgt Ion: 96 Resp: 333651
Ion Ratio Lower Upper
96 100
61 162.8 117.4 218.0
63 72.8 91.7 170.3#



#16
Methylene chloride
Concen: 9.696 ug/L
RT: 2.439 min Scan# 435
Delta R.T. 0.000 min
Lab File: VV037995.D
Acq: 11 Nov 2024 13:56

Tgt Ion: 84 Resp: 250991
Ion Ratio Lower Upper
84 100
86 63.4 45.0 83.6
49 110.9 79.2 147.2





#18

trans-1,2-Dichloroethene

Concen: 6.475 ug/L

RT: 2.687 min Scan# 512

Delta R.T. 0.000 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Instrument :

MSVOA_V

ClientSampleId :

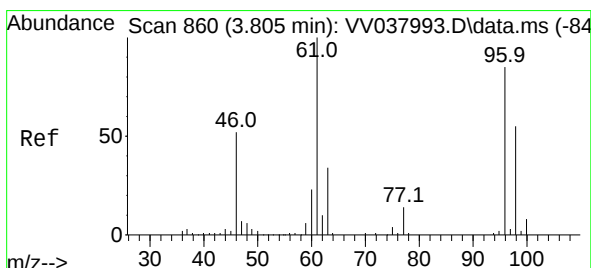
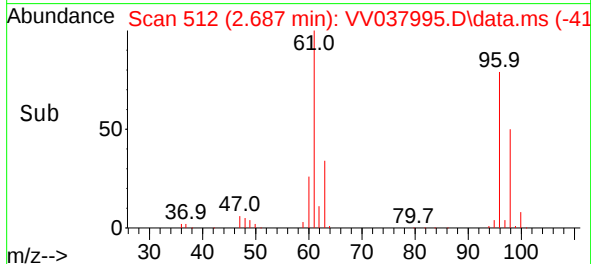
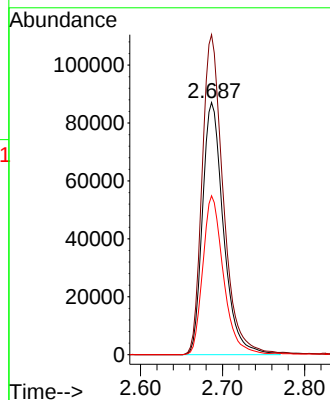
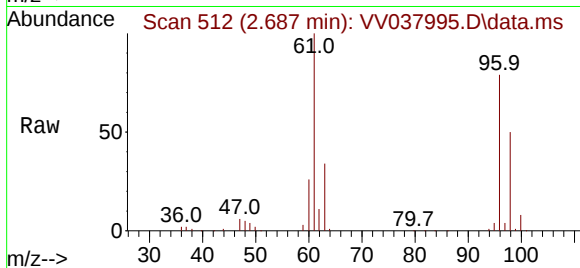
Tgt Ion: 96 Resp: 155076

Ion Ratio Lower Upper

96 100

61 126.9 93.2 173.0

98 63.0 44.4 82.4



#22

cis-1,2-Dichloroethene

Concen: 2.031 ug/L

RT: 3.809 min Scan# 861

Delta R.T. 0.003 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

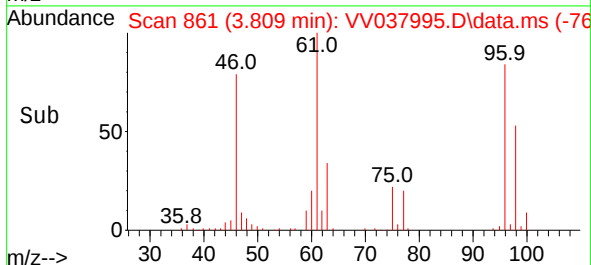
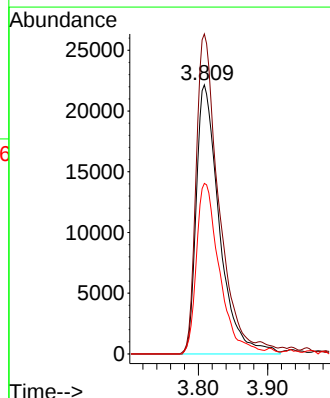
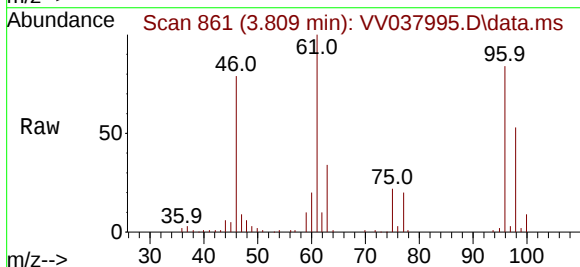
Tgt Ion: 96 Resp: 51245

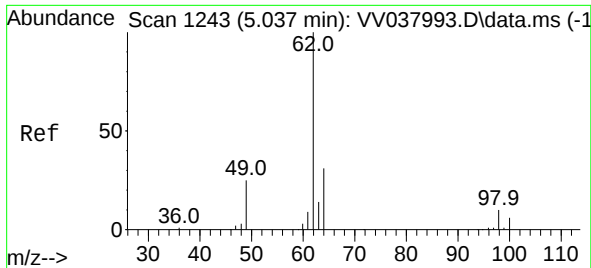
Ion Ratio Lower Upper

96 100

61 118.9 83.4 154.8

98 63.4 44.6 82.8

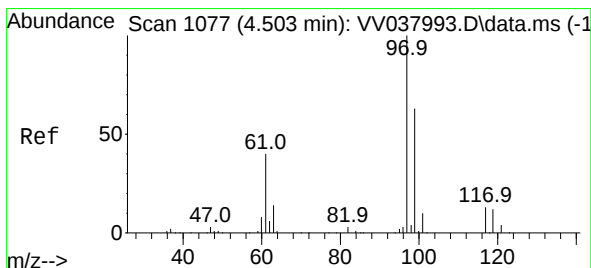
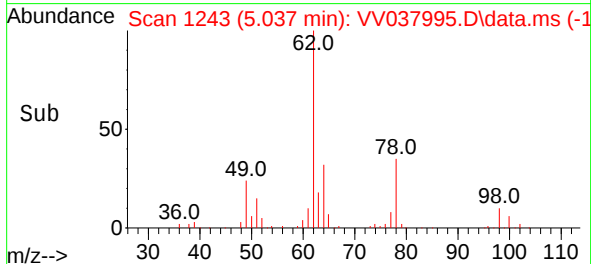
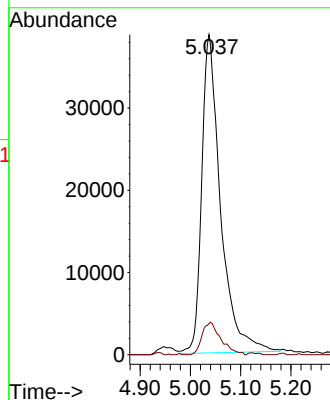
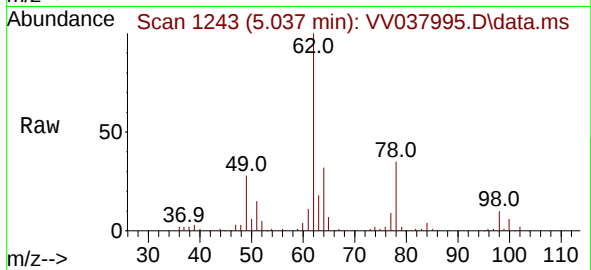




#27
1,2-Dichloroethane
Concen: 3.990 ug/L
RT: 5.037 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV037995.D
Acq: 11 Nov 2024 13:56

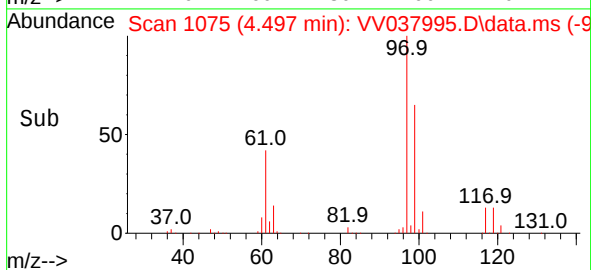
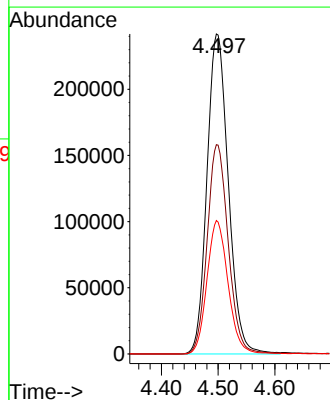
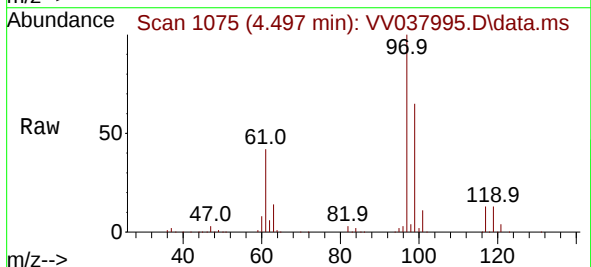
Instrument :
MSVOA_V
ClientSampleId :

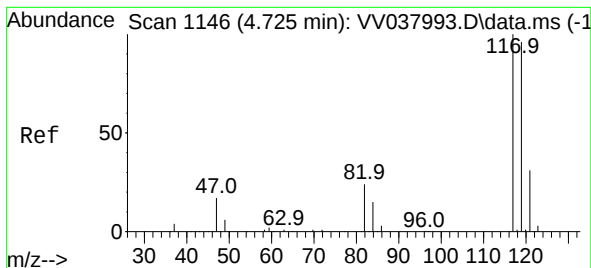
Tgt Ion: 62 Resp: 101045
Ion Ratio Lower Upper
62 100
98 9.7 8.1 12.1



#29
1,1,1-Trichloroethane
Concen: 15.553 ug/L
RT: 4.497 min Scan# 1075
Delta R.T. -0.006 min
Lab File: VV037995.D
Acq: 11 Nov 2024 13:56

Tgt Ion: 97 Resp: 633853
Ion Ratio Lower Upper
97 100
99 64.4 52.1 78.1
61 41.3 33.3 49.9





#31

Carbon tetrachloride

Concen: 3.018 ug/L

RT: 4.725 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Instrument :

MSVOA_V

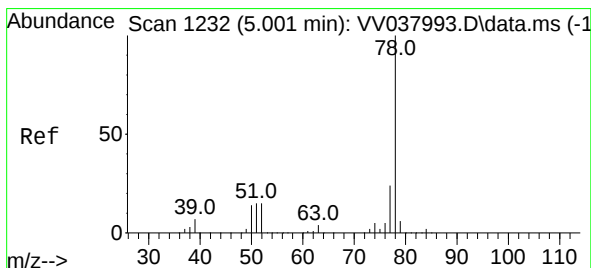
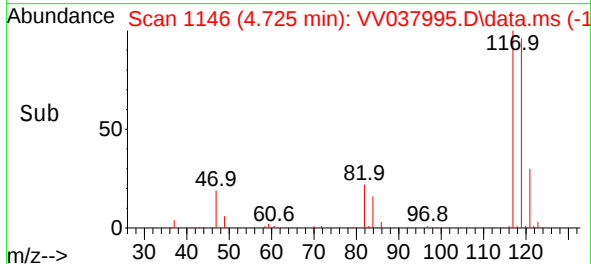
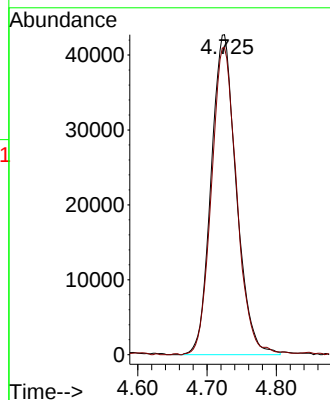
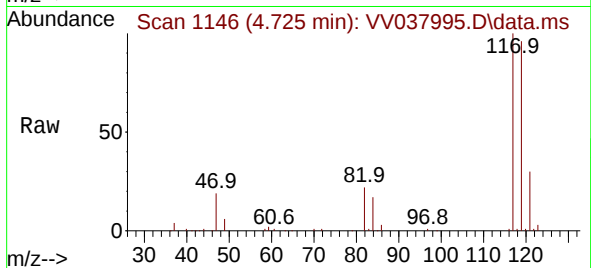
ClientSampleId :

Tgt Ion:117 Resp: 107945

Ion Ratio Lower Upper

117 100

119 96.2 77.2 115.8



#33

Benzene

Concen: 2.318 ug/L

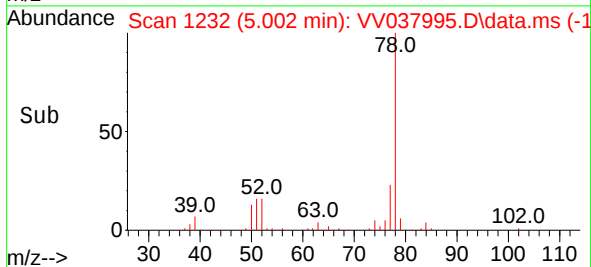
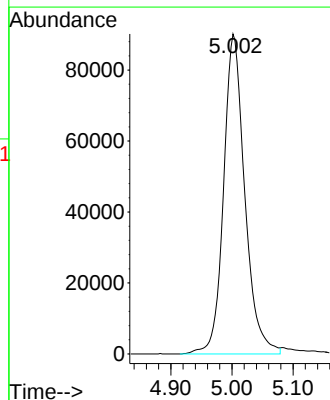
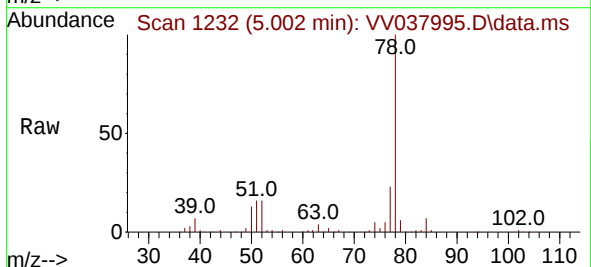
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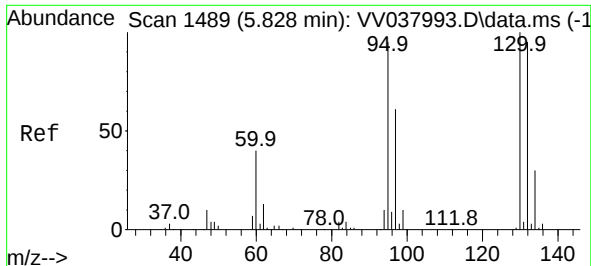
Delta R.T. 0.000 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Tgt Ion: 78 Resp: 217138





#34

Trichloroethene

Concen: 5.811 ug/L

RT: 5.825 min Scan# 1489

Delta R.T. -0.003 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 150753

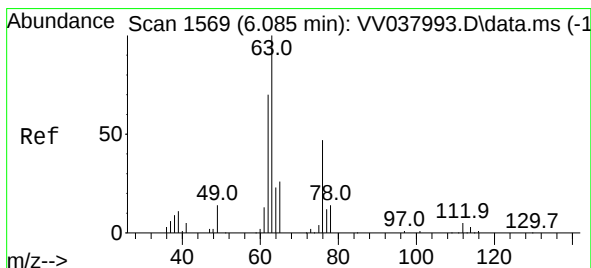
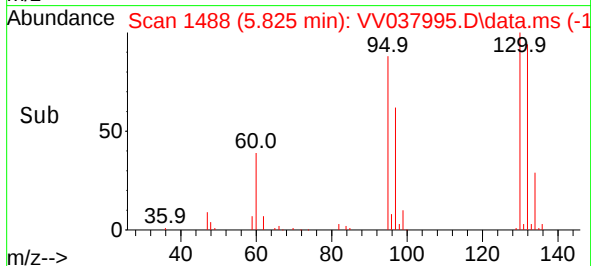
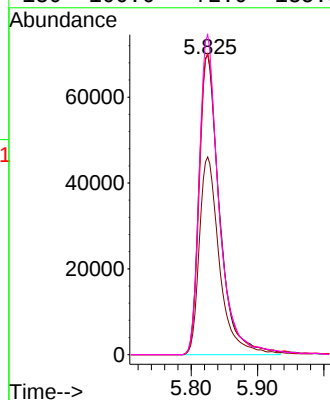
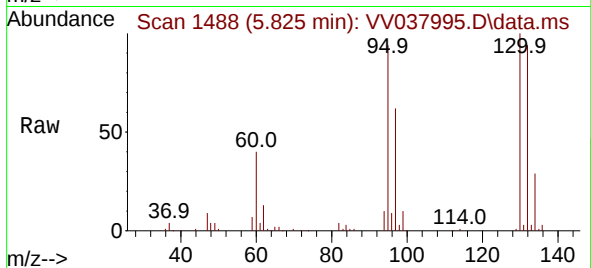
Ion Ratio Lower Upper

95 100

97 65.9 46.9 87.1

132 100.3 70.5 130.9

130 106.6 72.9 135.3



#37

1,2-Dichloropropane

Concen: 7.754 ug/L

RT: 6.082 min Scan# 1568

Delta R.T. -0.003 min

Lab File: VV037995.D

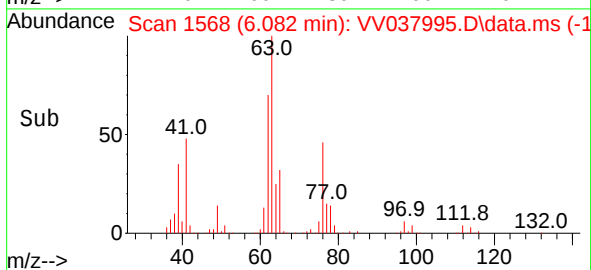
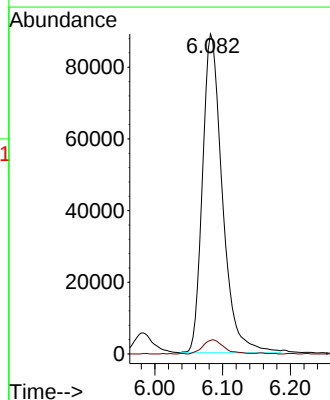
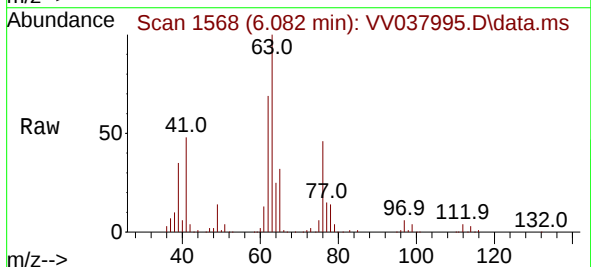
Acq: 11 Nov 2024 13:56

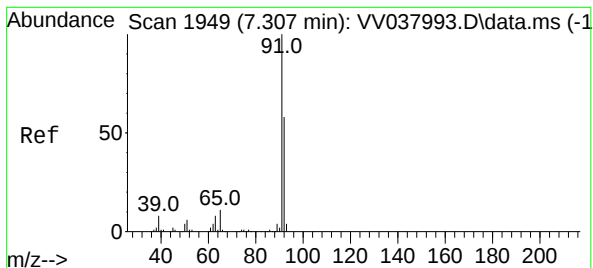
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Ion Ratio Lower Upper

63 100

112 4.7 4.1 6.1





#42

Toluene

Concen: 8.061 ug/L

RT: 7.307 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Instrument :

MSVOA_V

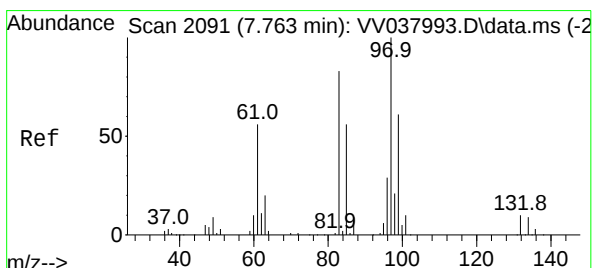
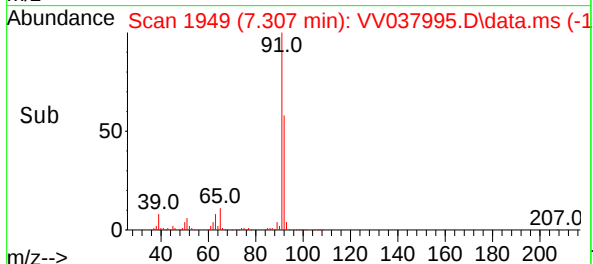
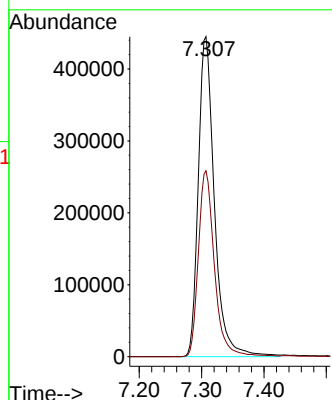
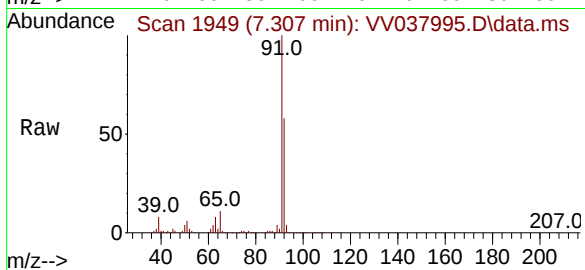
ClientSampleId :

Tgt Ion: 91 Resp: 799089

Ion Ratio Lower Upper

91 100

92 58.1 40.7 75.7



#45

1,1,2-Trichloroethane

Concen: 11.007 ug/L

RT: 7.760 min Scan# 2090

Delta R.T. -0.003 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Tgt Ion: 97 Resp: 195070

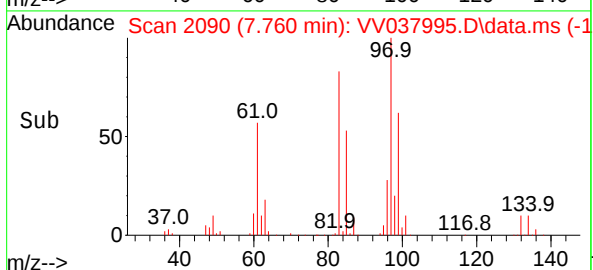
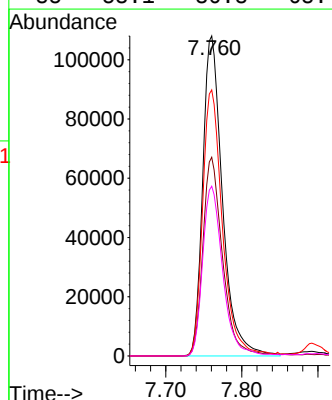
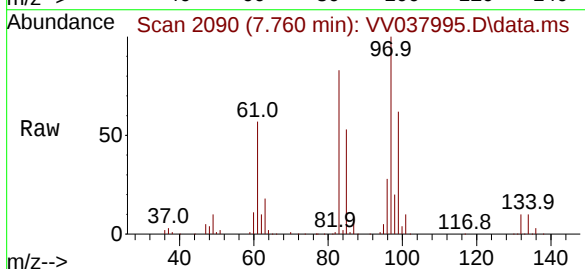
Ion Ratio Lower Upper

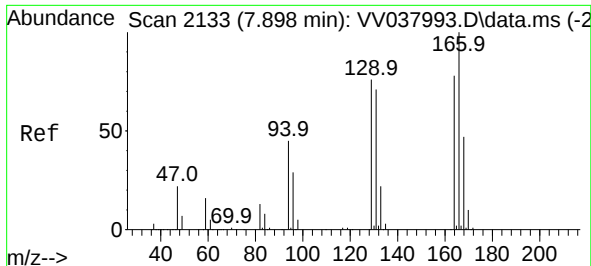
97 100

99 62.1 42.4 78.8

83 83.1 59.3 110.1

85 53.1 36.8 68.4





#47

Tetrachloroethene

Concen: 14.286 ug/L

RT: 7.895 min Scan# 2132

Delta R.T. -0.003 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:164 Resp: 288071

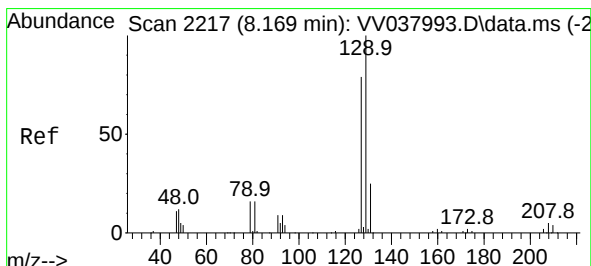
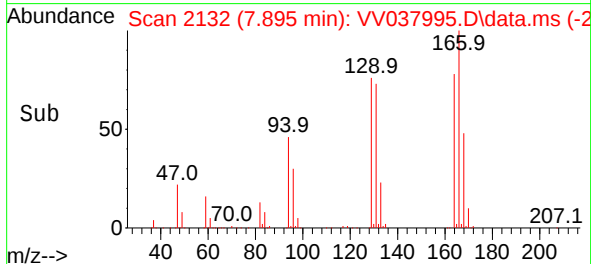
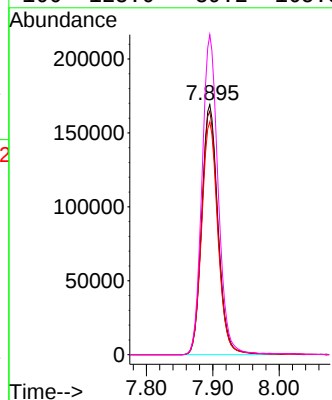
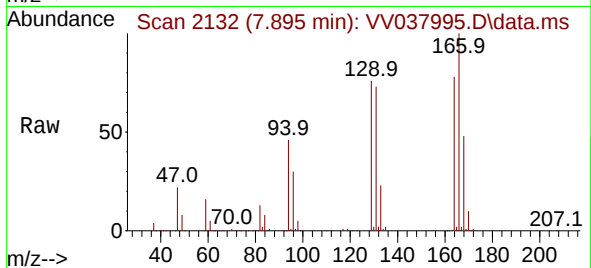
Ion Ratio Lower Upper

164 100

129 97.4 66.8 124.2

131 93.1 65.2 121.2

166 128.0 89.2 165.8



#49

Dibromochloromethane

Concen: 13.012 ug/L

RT: 7.895 min Scan# 2132

Delta R.T. -0.273 min

Lab File: VV037995.D

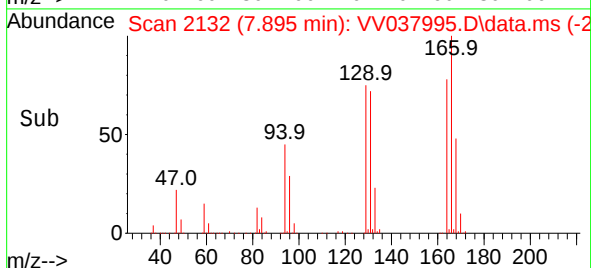
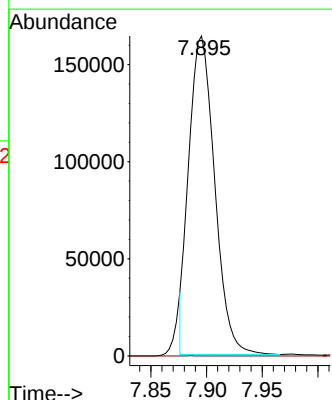
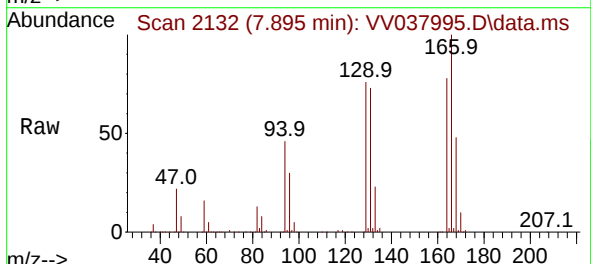
Acq: 11 Nov 2024 13:56

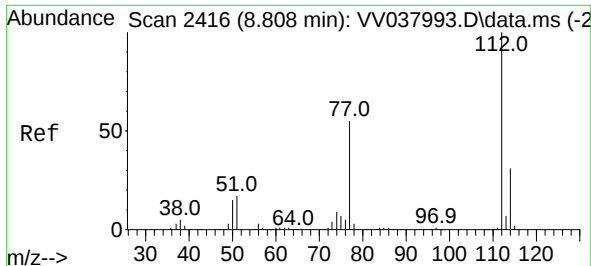
Tgt Ion:129 Resp: 263621

Ion Ratio Lower Upper

129 100

127 0.0 52.2 97.0#





#51

Chlorobenzene

Concen: 14.331 ug/L

RT: 8.805 min Scan# 2416

Delta R.T. -0.003 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Instrument :

MSVOA_V

ClientSampleId :

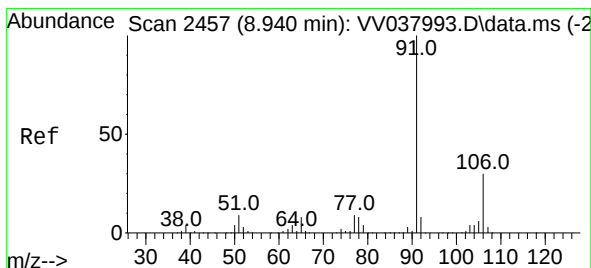
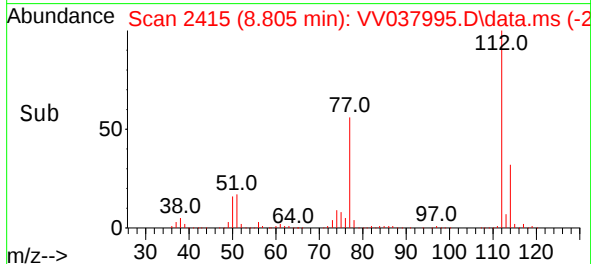
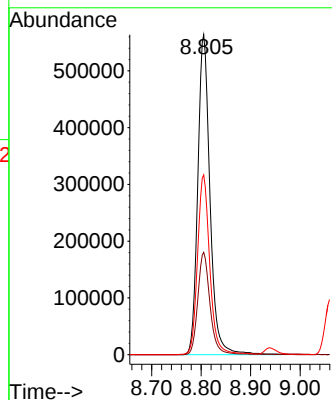
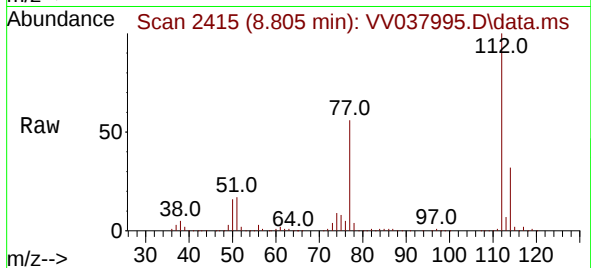
Tgt Ion:112 Resp: 971573

Ion Ratio Lower Upper

112 100

114 32.0 23.0 42.6

77 56.2 45.9 68.9



#52

Ethylbenzene

Concen: 2.020 ug/L

RT: 8.940 min Scan# 2457

Delta R.T. 0.000 min

Lab File: VV037995.D

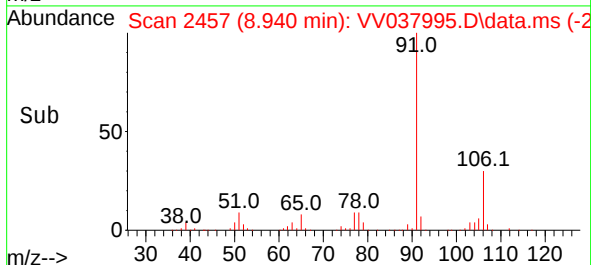
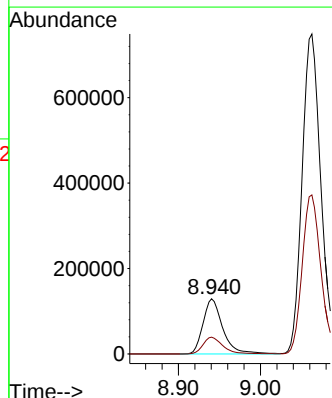
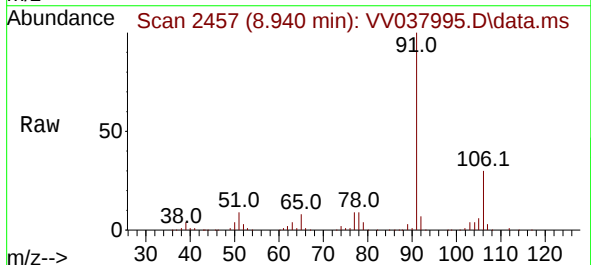
Acq: 11 Nov 2024 13:56

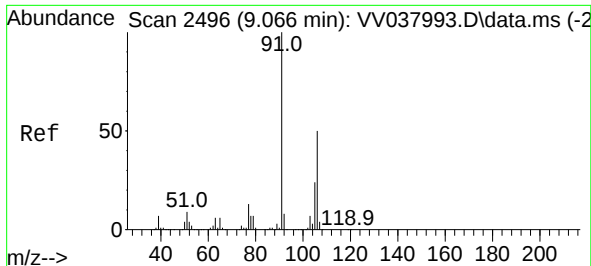
Tgt Ion: 91 Resp: 215651

Ion Ratio Lower Upper

91 100

106 30.3 21.8 40.4





#53

m,p-Xylene

Concen: 14.821 ug/L

RT: 9.063 min Scan# 2496

Delta R.T. -0.003 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Instrument :

MSVOA_V

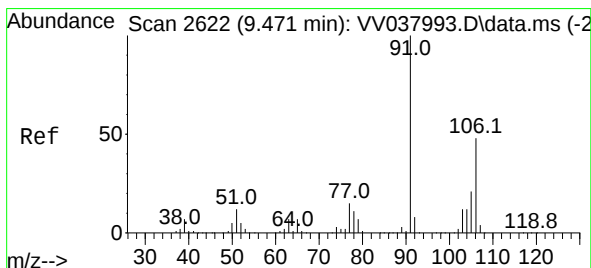
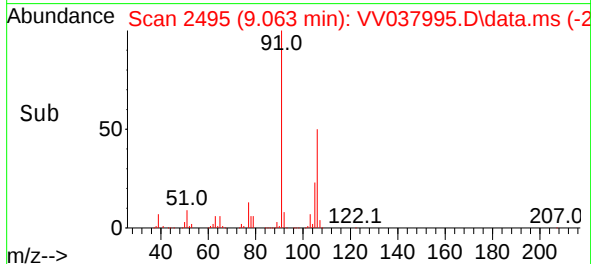
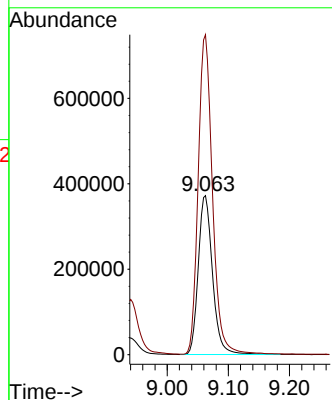
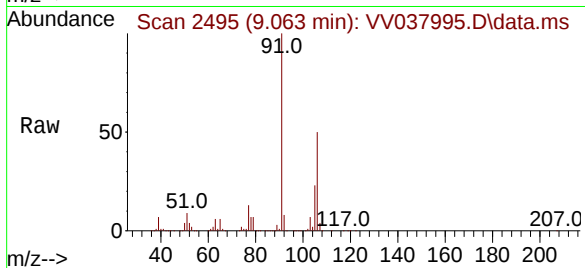
ClientSampleId :

Tgt Ion:106 Resp: 603629

Ion Ratio Lower Upper

106 100

91 201.3 139.0 258.2



#54

o-Xylene

Concen: 3.553 ug/L

RT: 9.471 min Scan# 2622

Delta R.T. 0.000 min

Lab File: VV037995.D

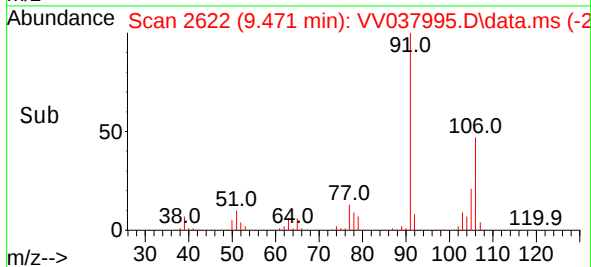
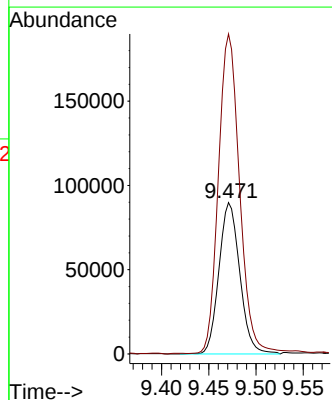
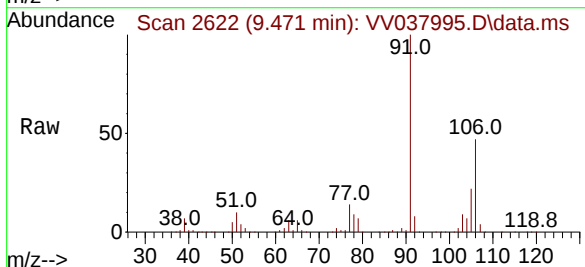
Acq: 11 Nov 2024 13:56

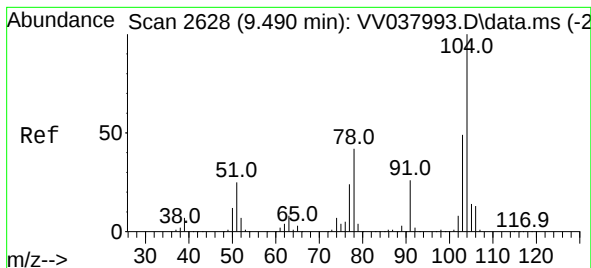
Tgt Ion:106 Resp: 137736

Ion Ratio Lower Upper

106 100

91 211.5 152.0 282.2





#55

Styrene

Concen: 2.534 ug/L

RT: 9.490 min Scan# 2

Delta R.T. 0.000 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Instrument :

MSVOA_V

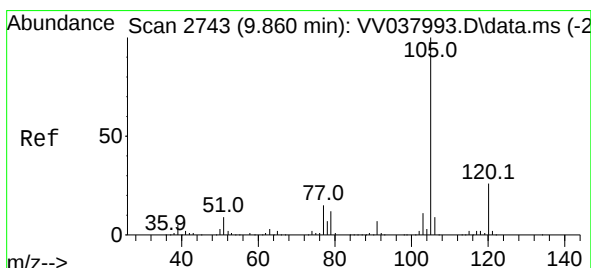
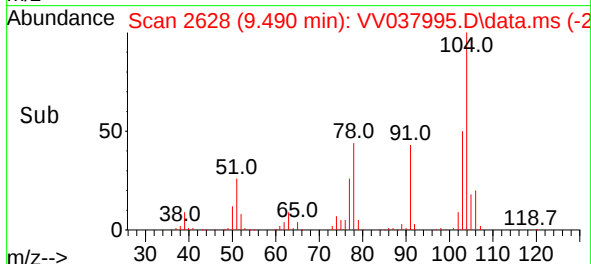
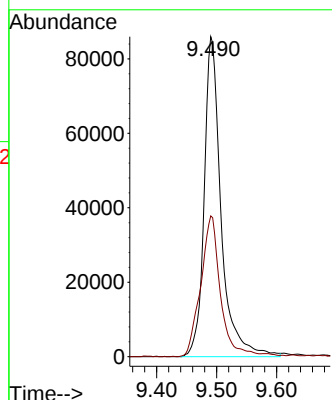
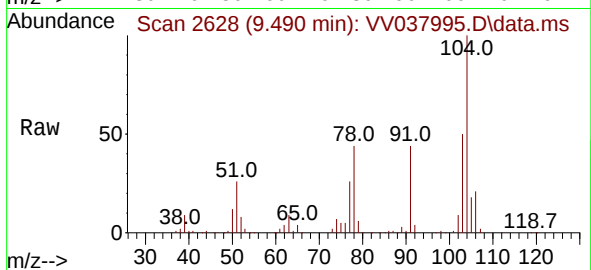
ClientSampleId :

Tgt Ion:104 Resp: 169172

Ion Ratio Lower Upper

104 100

78 44.0 30.9 57.3



#60

Isopropylbenzene

Concen: 0.808 ug/L

RT: 9.471 min Scan# 2622

Delta R.T. -0.389 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

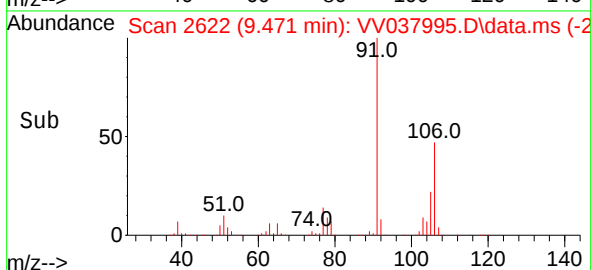
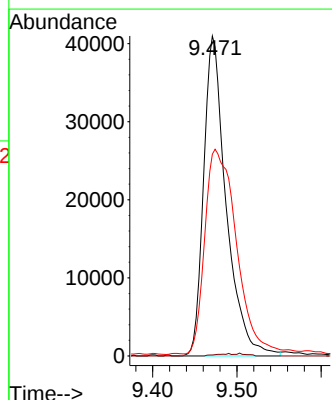
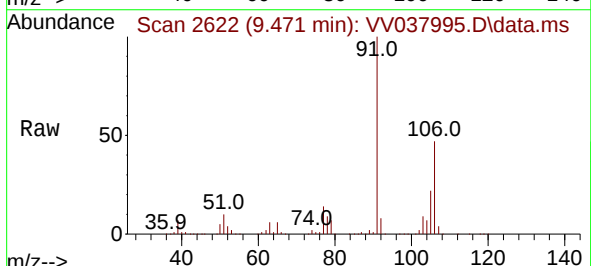
Tgt Ion:105 Resp: 76303

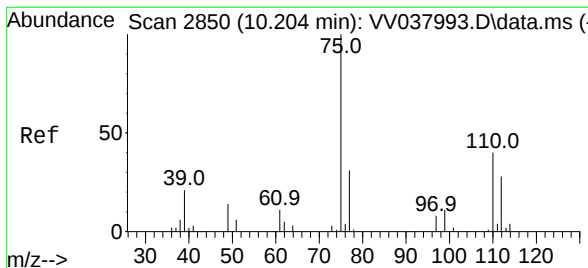
Ion Ratio Lower Upper

105 100

120 0.6 21.0 31.4#

77 89.2 12.2 18.2#





#61

1,2,3-Trichloropropane

Concen: 0.800 ug/L

RT: 9.490 min Scan# 2

Delta R.T. -0.714 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Instrument :

MSVOA_V

ClientSampleId :

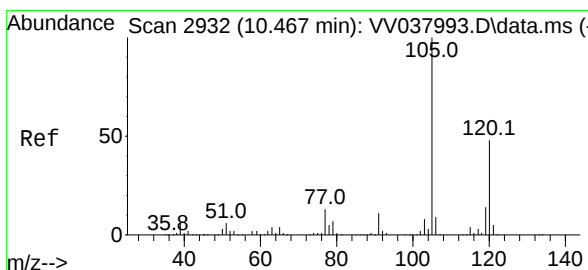
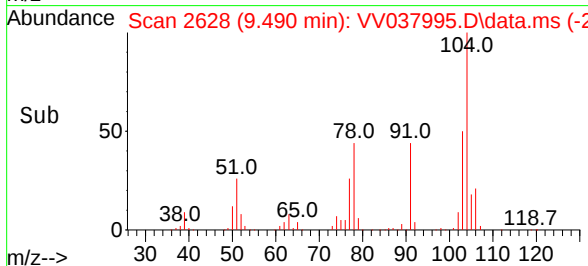
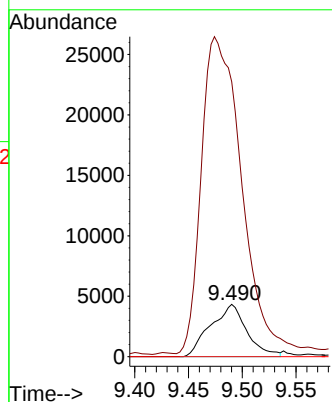
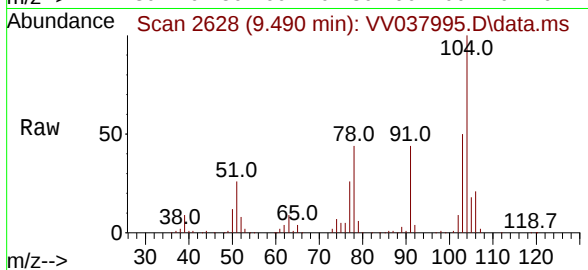
Tgt Ion: 75 Resp: 10148

Ion Ratio Lower Upper

75 100

77 670.7 24.9 37.3#

110 0.0 33.5 50.3#



#62

1,3,5-Trimethylbenzene

Concen: 1.027 ug/L

RT: 9.471 min Scan# 2622

Delta R.T. -0.997 min

Lab File: VV037995.D

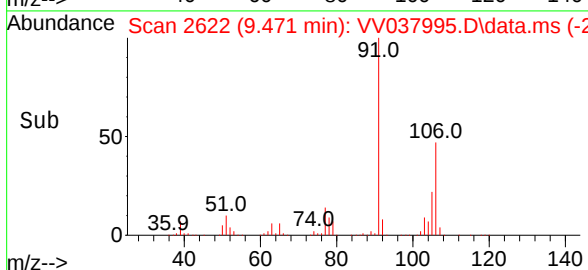
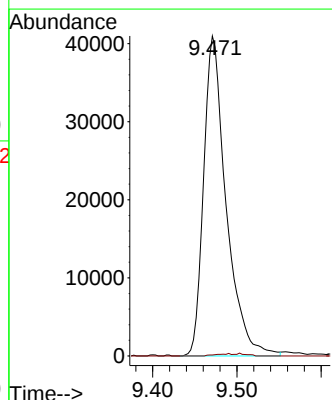
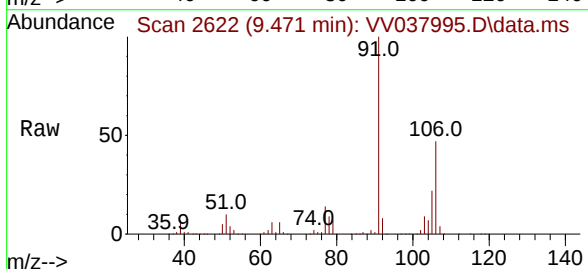
Acq: 11 Nov 2024 13:56

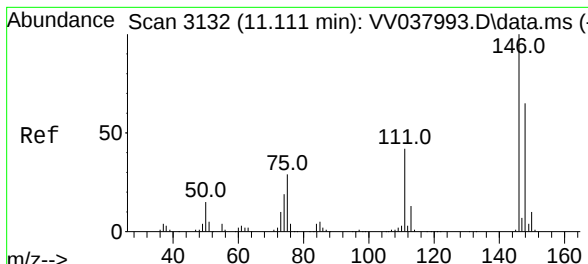
Tgt Ion:105 Resp: 76303

Ion Ratio Lower Upper

105 100

120 0.6 39.0 58.6#

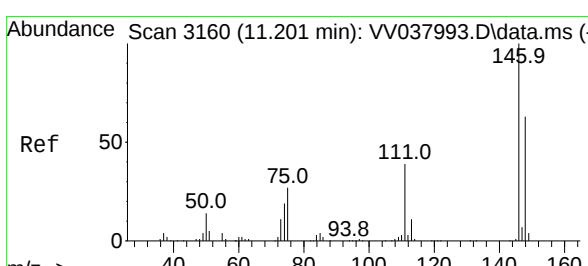
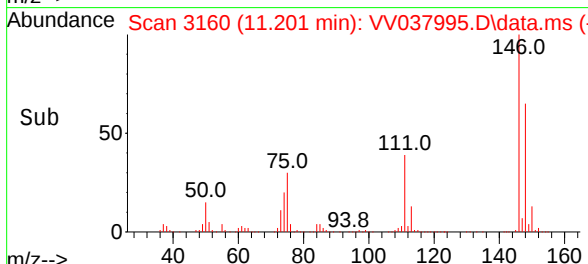
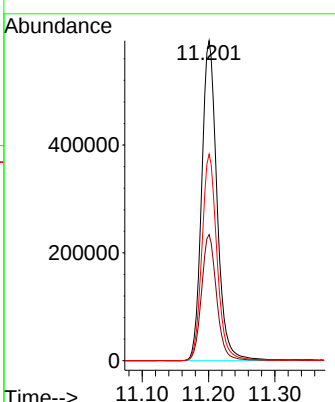
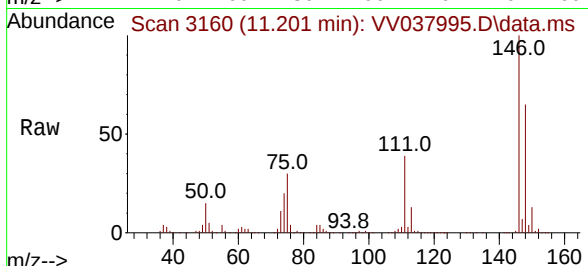




#64
 1,3-Dichlorobenzene
 Concen: 19.880 ug/L
 RT: 11.201 min Scan# 3160
 Delta R.T. 0.090 min
 Lab File: VV037995.D
 Acq: 11 Nov 2024 13:56

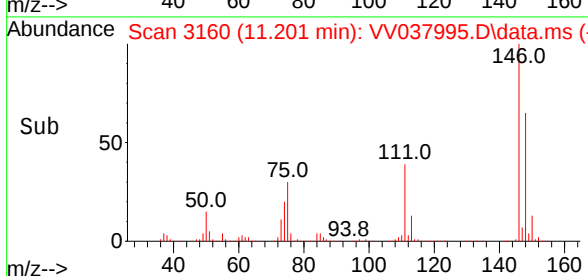
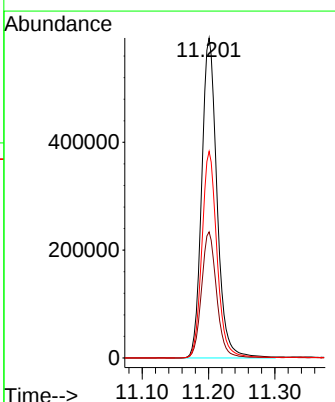
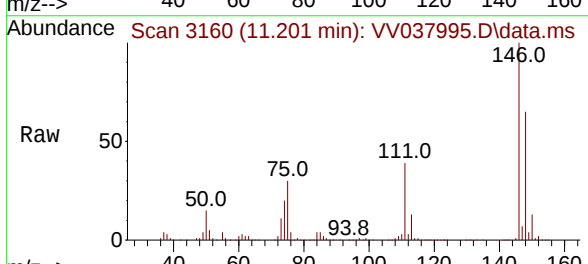
Instrument :
 MSVOA_V
 ClientSampleId :

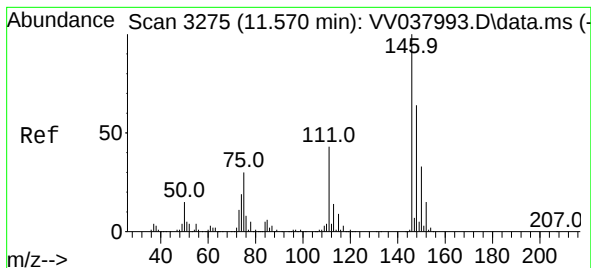
Tgt Ion:	146	Resp:	950922
Ion Ratio	Lower	Upper	
146	100		
111	39.4	28.7	53.3
148	64.5	44.6	82.8



#65
 1,4-Dichlorobenzene
 Concen: 19.250 ug/L
 RT: 11.201 min Scan# 3160
 Delta R.T. 0.000 min
 Lab File: VV037995.D
 Acq: 11 Nov 2024 13:56

Tgt Ion:	146	Resp:	950922
Ion Ratio	Lower	Upper	
146	100		
111	39.4	27.6	51.2
148	64.5	44.4	82.4





#67

1,2-Dichlorobenzene

Concen: 9.534 ug/L

RT: 11.570 min Scan# 3275

Delta R.T. 0.000 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Instrument :

MSVOA_V

ClientSampleId :

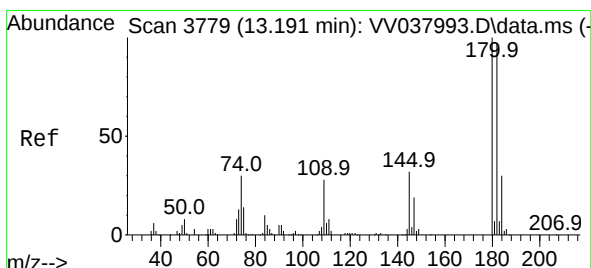
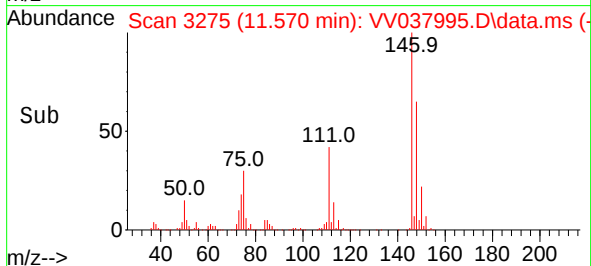
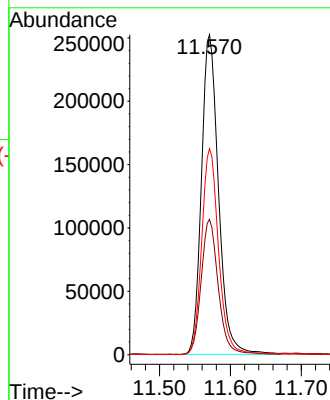
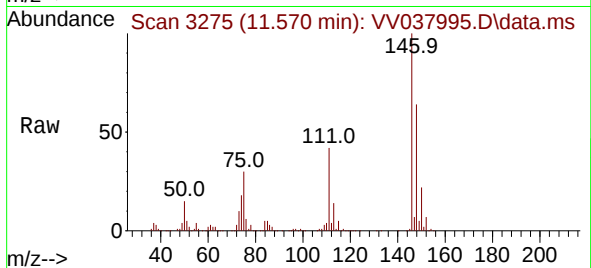
Tgt Ion:146 Resp: 421695

Ion Ratio Lower Upper

146 100

111 42.3 33.9 50.9

148 64.4 51.4 77.2



#70

1,2,4-trichlorobenzene

Concen: 8.259 ug/L

RT: 13.191 min Scan# 3779

Delta R.T. 0.000 min

Lab File: VV037995.D

Acq: 11 Nov 2024 13:56

Tgt Ion:180 Resp: 218955

Ion Ratio Lower Upper

180 100

182 95.3 74.8 112.2

145 32.5 25.4 38.0

