

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW061523\
 Data File : VW031526.D
 Acq On : 15 Jun 2023 13:18
 Operator : SY/MD
 Sample : 03249-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXYS4

Quant Time: Jun 16 02:47:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM061423WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 16 02:44:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.542	114	170556	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	173571	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.191	152	111442	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	57644	50.783	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.560%
7) Chloroethane-d5	1.536	69	46492	46.942	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.880%
11) 1,1-Dichloroethene-d2	2.066	65	25069	42.852	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.700%
21) 2-Butanone-d5	3.796	46	118842	129.299	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	129.300%
24) Chloroform-d	4.259	84	131157	46.137	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.280%
26) 1,2-Dichloroethane-d4	4.950	65	89317	50.217	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.440%
32) Benzene-d6	4.970	84	224767	46.006	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.020%
36) 1,2-Dichloropropane-d6	5.995	67	83503	48.222	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.440%
41) Toluene-d8	7.249	98	189737	42.320	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.640%
43) trans-1,3-Dichloroprop...	7.558	79	41338	48.970	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.940%
47) 2-Hexanone-d5	8.030	63	77226	112.953	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.950%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	135092	51.686	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.380%
66) 1,2-Dichlorobenzene-d4	11.567	152	104685	49.280	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.560%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.288	62	1244611	735.484	ug/L	98
8) Chloroethane	1.555	64	465595	425.990	ug/L	95
12) 1,1-Dichloroethene	2.076	96	12426	9.846	ug/L #	1
13) Acetone	2.127	43	4224	4.657	ug/L	97
16) Methylene chloride	2.455	84	6633	4.192	ug/L	93
17) trans-1,2-Dichloroethene	2.703	96	41816	31.743	ug/L	97
19) 1,1-Dichloroethane	3.121	63	3841001	1350.982	ug/L	99
20) cis-1,2-Dichloroethene	3.822	96	1743938	1225.016	ug/L	98
27) 1,2-Dichloroethane	5.053	62	36255	15.894	ug/L	97
29) Cyclohexane	4.593	56	3309	1.465	ug/L #	85
30) 1,1,1-Trichloroethane	4.523	97	380142	136.601	ug/L	99
33) Benzene	5.021	78	69209	11.976	ug/L	100
34) Trichloroethene	5.841	95	30602	19.817	ug/L	97
35) Methylcyclohexane	6.053	83	3948	1.735	ug/L	95
40) 4-Methyl-2-pentanone	7.178	43	6931	3.478	ug/L	95
42) Toluene	7.323	91	279903	46.715	ug/L	99
44) trans-1,3-Dichloropropene	7.558	75	1855	0.756	ug/L	94
45) 1,1,2-Trichloroethane	7.780	97	4296	2.680	ug/L	87
46) Tetrachloroethene	7.915	164	2598	2.144	ug/L	92

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

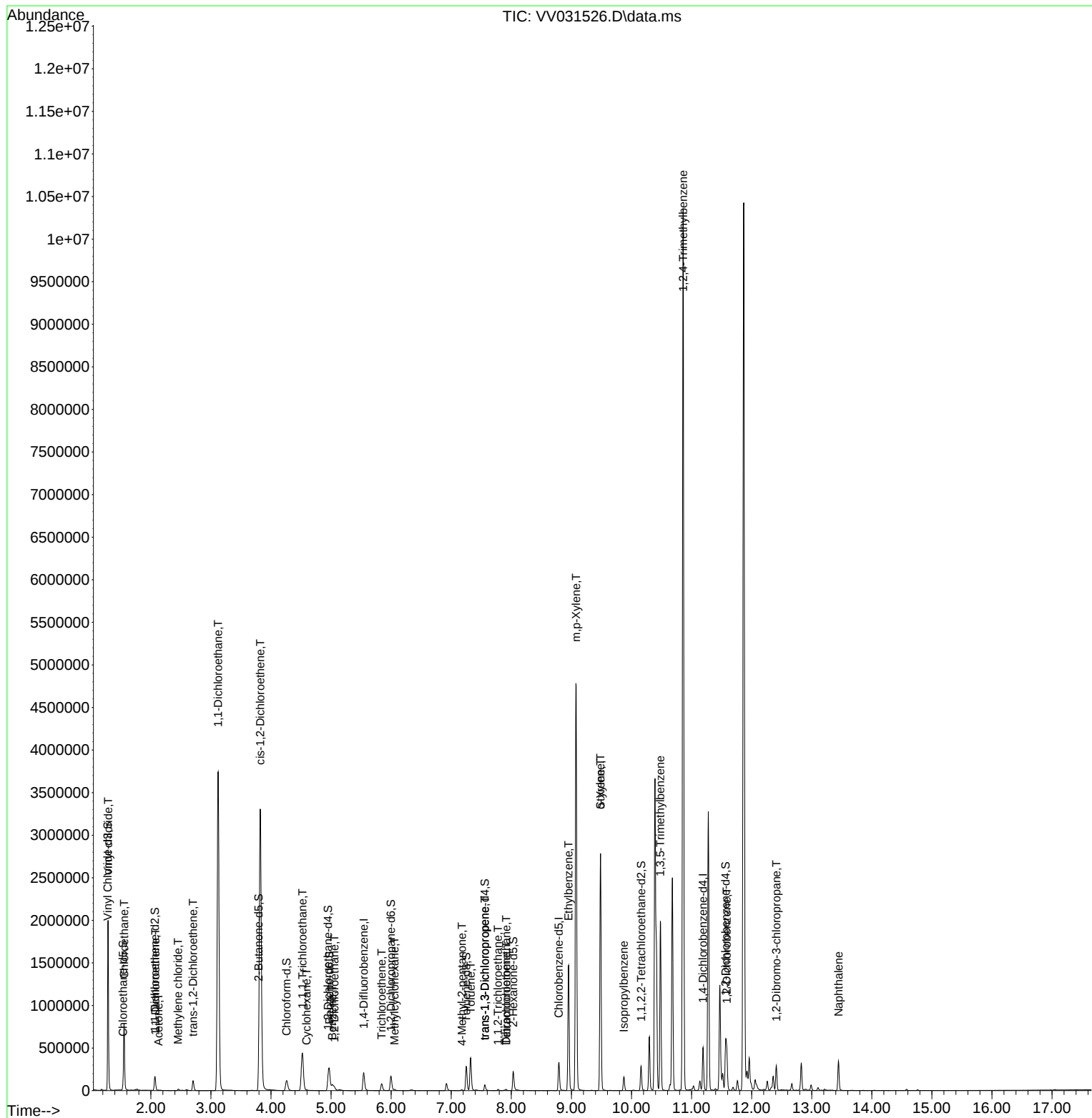
49) Dibromochloromethane	7.915	129	2298	1.290	ug/L #	9
52) Ethylbenzene	8.953	91	973645	145.631	ug/L	100
53) m,p-Xylene	9.079	106	1252062	511.382	ug/L	98
54) o-Xylene	9.484	106	659616	283.894	ug/L	99
55) Styrene	9.484	104	36410	8.774	ug/L #	1
60) Isopropylbenzene	9.873	105	99545	14.011	ug/L	100
62) 1,3,5-Trimethylbenzene	10.481	105	1015608	172.958	ug/L	99
63) 1,2,4-Trimethylbenzene	10.860	105	5379204	983.175	ug/L	98
67) 1,2-Dichlorobenzene	11.587	146	64154	17.845	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.413	75	1213	1.857	ug/L #	3
71) Naphthalene	13.445	128	256177	42.512	ug/L	99

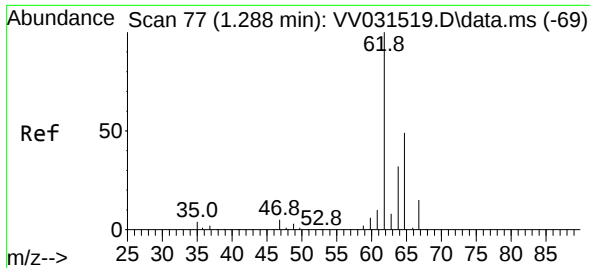
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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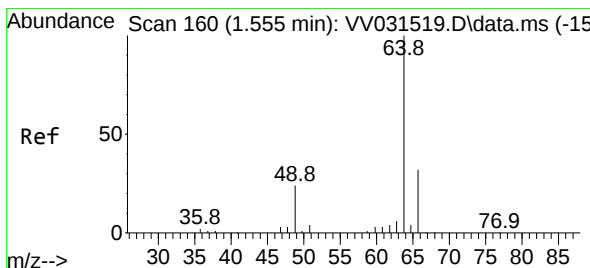
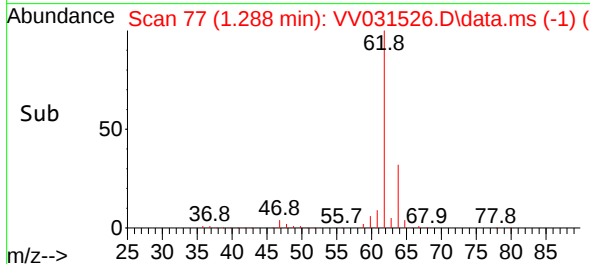
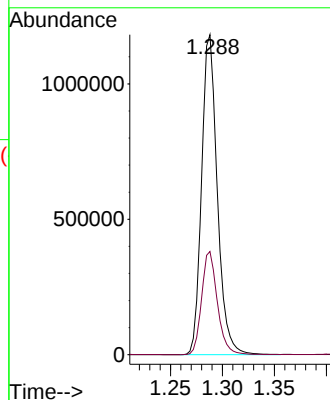
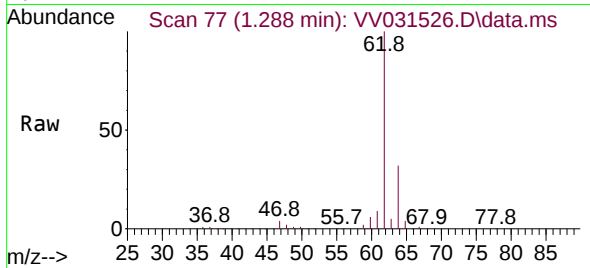




#5
 Vinyl chloride
 Concen: 735.484 ug/L
 RT: 1.288 min Scan# 77
 Delta R.T. 0.000 min
 Lab File: VV031526.D
 Acq: 15 Jun 2023 13:18

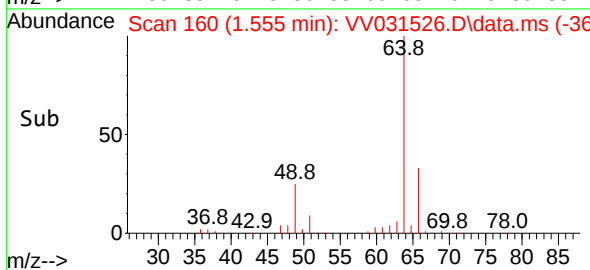
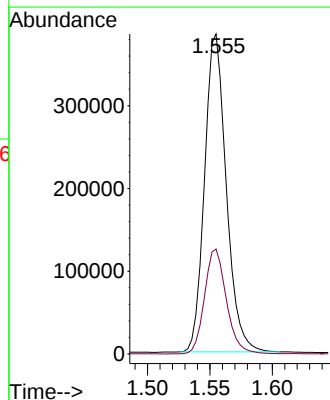
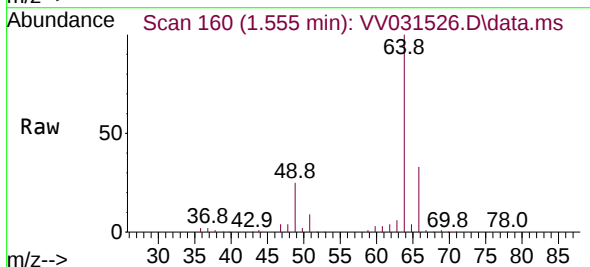
Instrument :
 MSVOA_V
 ClientSampleId :
 EXYS4

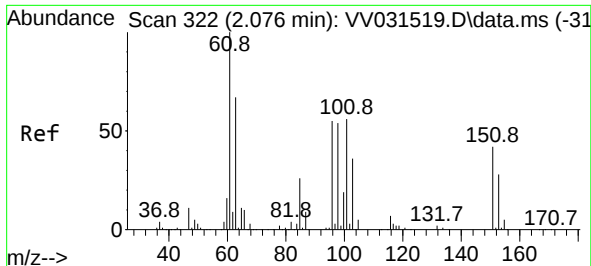
Tgt Ion: 62 Resp: 1244611
 Ion Ratio Lower Upper
 62 100
 64 32.3 23.4 43.4



#8
 Chloroethane
 Concen: 425.990 ug/L
 RT: 1.555 min Scan# 160
 Delta R.T. 0.000 min
 Lab File: VV031526.D
 Acq: 15 Jun 2023 13:18

Tgt Ion: 64 Resp: 465595
 Ion Ratio Lower Upper
 64 100
 66 32.8 21.0 39.0





#12

1,1-Dichloroethene

Concen: 9.846 ug/L

RT: 2.076 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031526.D

Acq: 15 Jun 2023 13:18

Instrument :

MSVOA_V

ClientSampleId :

EXYS4

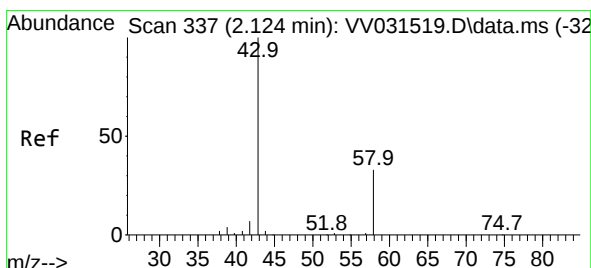
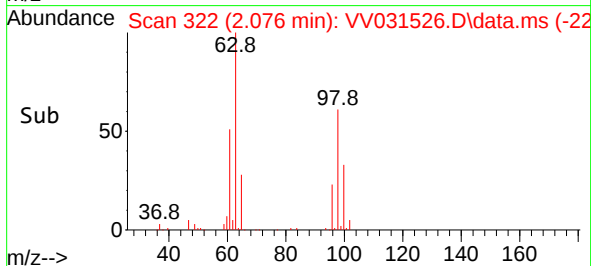
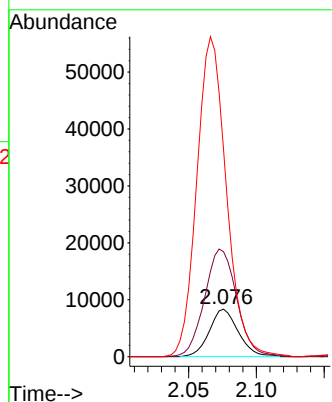
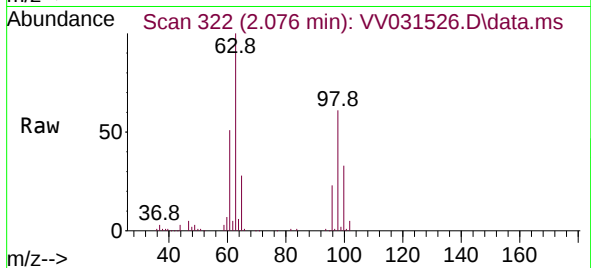
Tgt Ion: 96 Resp: 12426

Ion Ratio Lower Upper

96 100

61 207.6 128.9 239.5

63 409.3 95.3 177.1#



#13

Acetone

Concen: 4.657 ug/L

RT: 2.127 min Scan# 338

Delta R.T. 0.003 min

Lab File: VV031526.D

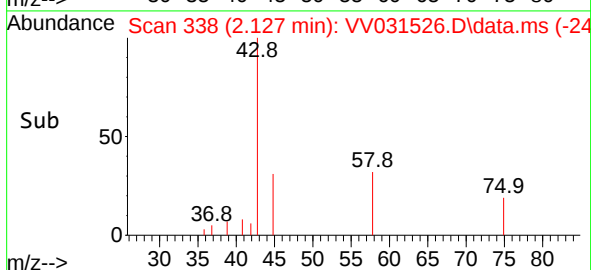
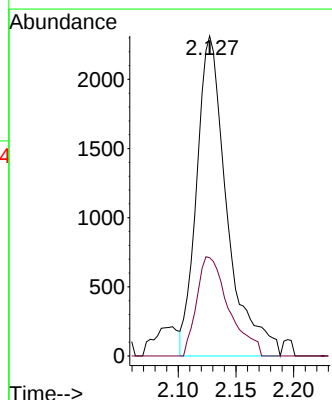
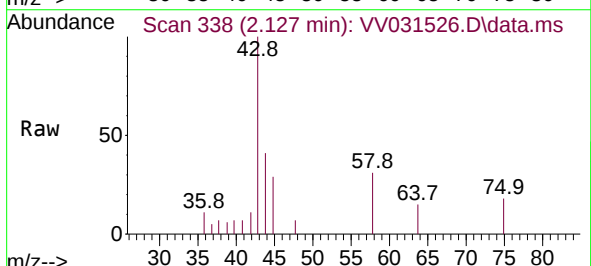
Acq: 15 Jun 2023 13:18

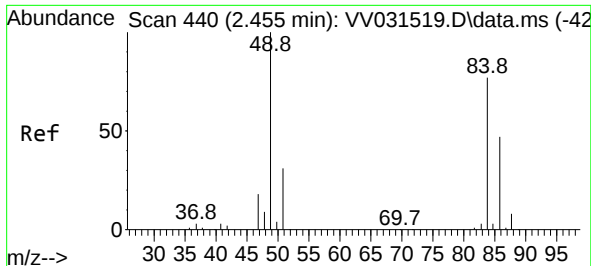
Tgt Ion: 43 Resp: 4224

Ion Ratio Lower Upper

43 100

58 32.8 0.0 68.6

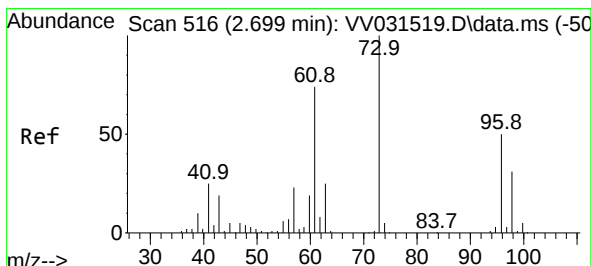
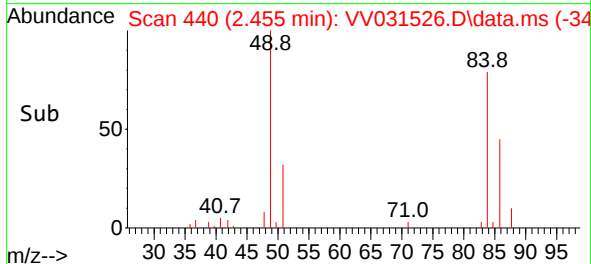
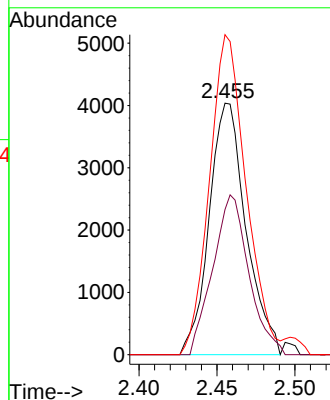
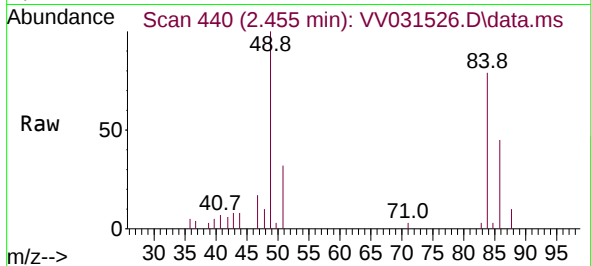




#16
Methylene chloride
Concen: 4.192 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

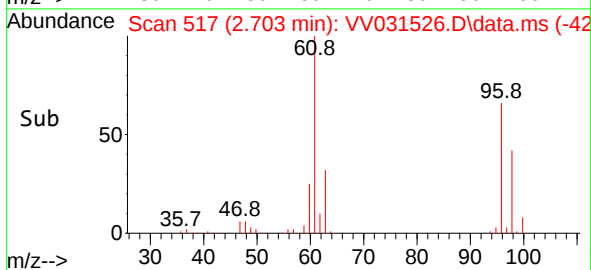
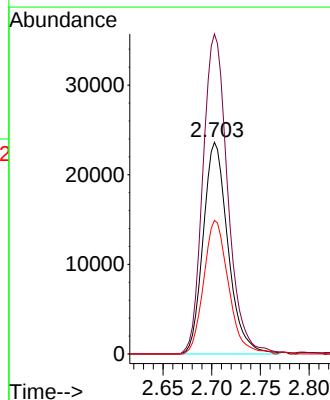
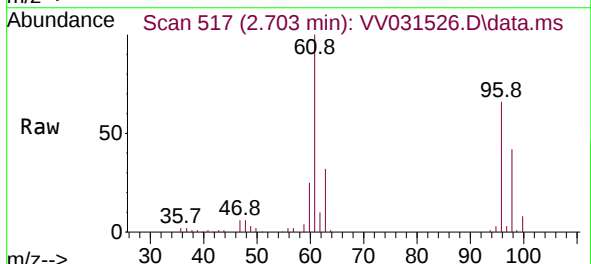
Instrument :
MSVOA_V
ClientSampleId :
EXYS4

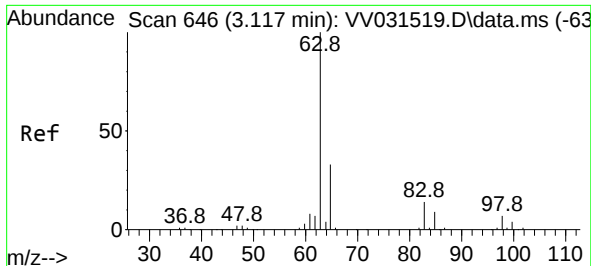
Tgt Ion: 84 Resp: 6633
Ion Ratio Lower Upper
84 100
86 55.8 45.8 85.0
49 126.2 92.1 171.1



#17
trans-1,2-Dichloroethene
Concen: 31.743 ug/L
RT: 2.703 min Scan# 517
Delta R.T. 0.003 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

Tgt Ion: 96 Resp: 41816
Ion Ratio Lower Upper
96 100
61 151.1 102.5 190.3
98 64.9 44.1 81.9





#19

1,1-Dichloroethane

Concen: 1350.982 ug/L

RT: 3.121 min Scan# 64

Delta R.T. 0.003 min

Lab File: VV031526.D

Acq: 15 Jun 2023 13:18

Instrument :

MSVOA_V

ClientSampleId :

EXYS4

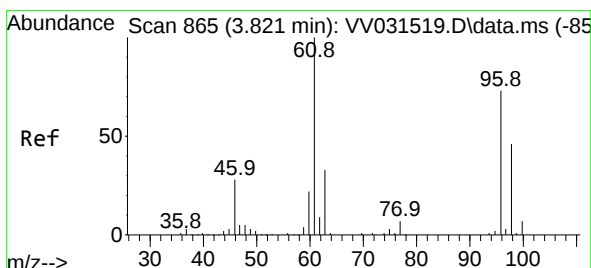
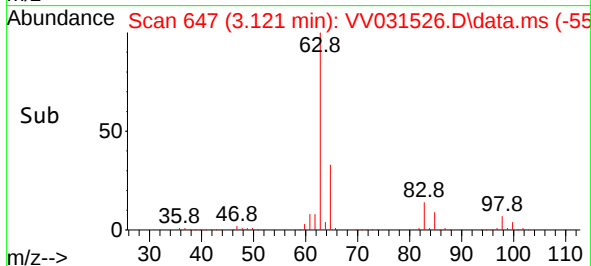
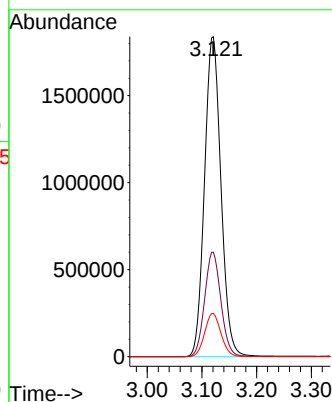
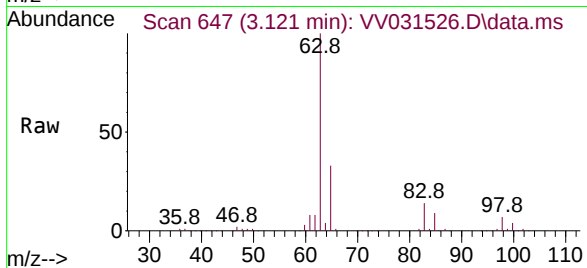
Tgt Ion: 63 Resp: 3841001

Ion Ratio Lower Upper

63 100

65 32.7 22.5 41.7

83 13.5 10.0 18.6



#20

cis-1,2-Dichloroethene

Concen: 1225.016 ug/L

RT: 3.822 min Scan# 865

Delta R.T. 0.000 min

Lab File: VV031526.D

Acq: 15 Jun 2023 13:18

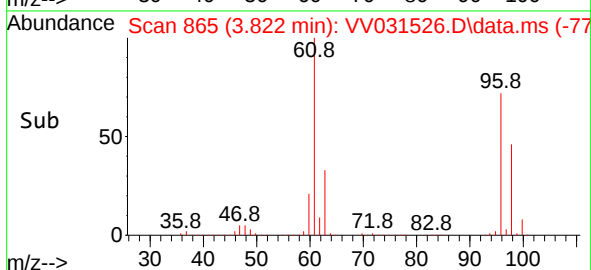
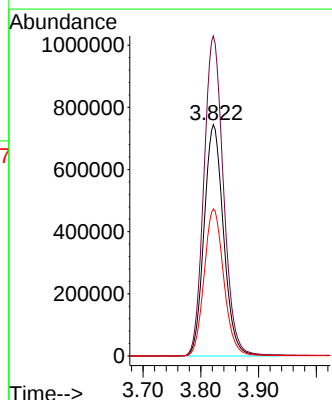
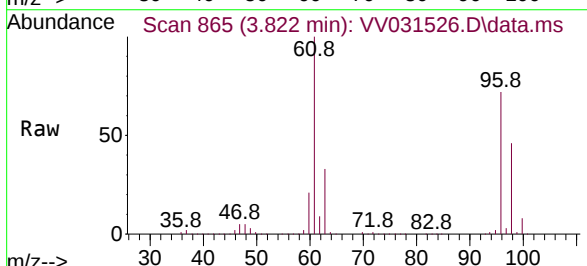
Tgt Ion: 96 Resp: 1743938

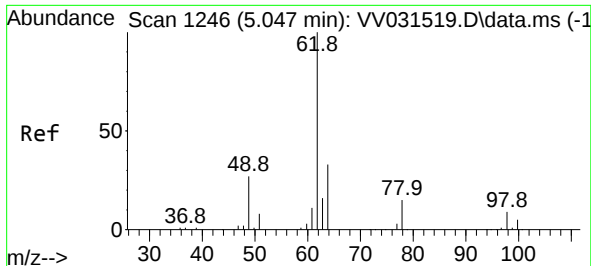
Ion Ratio Lower Upper

96 100

61 138.3 98.6 183.0

98 63.6 45.7 84.9





#27

1,2-Dichloroethane

Concen: 15.894 ug/L

RT: 5.053 min Scan# 1105

Delta R.T. 0.007 min

Lab File: VV031526.D

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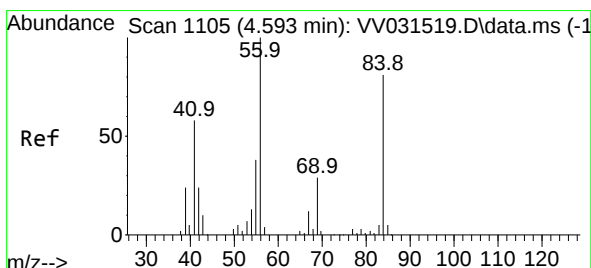
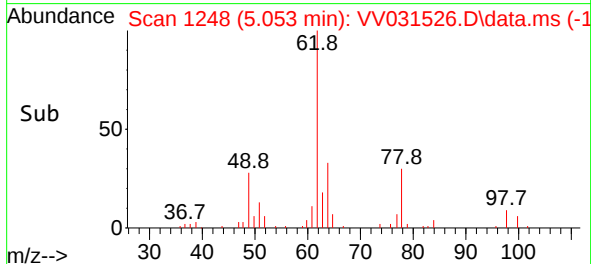
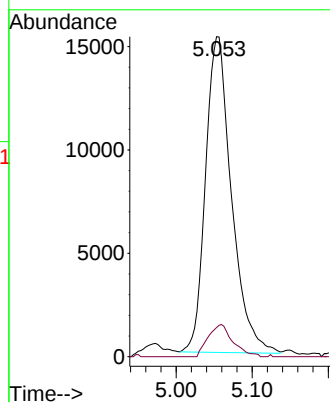
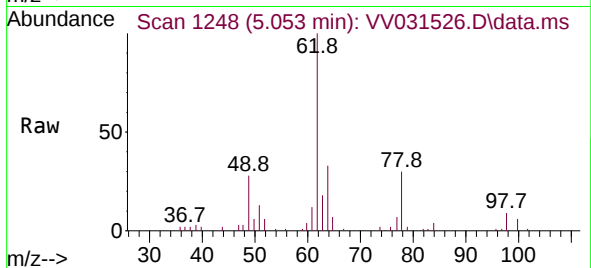
EXYS4

Tgt Ion: 62 Resp: 36255

Ion Ratio Lower Upper

62 100

98 9.1 6.6 9.8



#29

Cyclohexane

Concen: 1.465 ug/L

RT: 4.593 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VV031526.D

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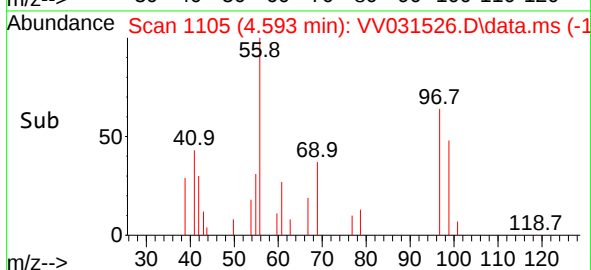
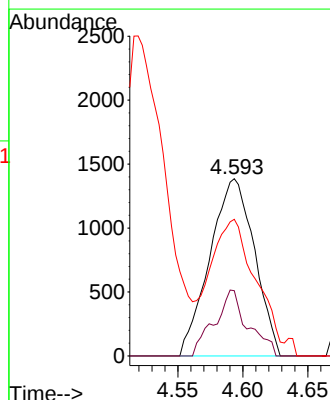
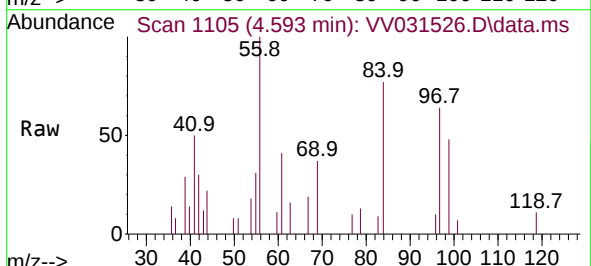
Tgt Ion: 56 Resp: 3309

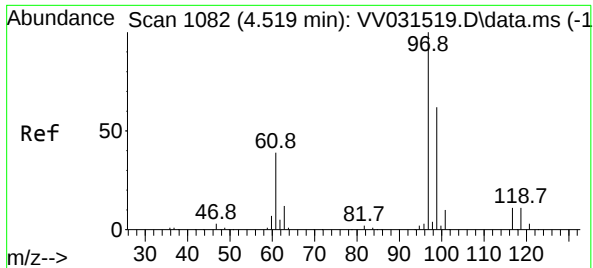
Ion Ratio Lower Upper

56 100

69 10.0 24.3 36.5#

84 75.5 65.0 97.6





#30

1,1,1-Trichloroethane

Concen: 136.601 ug/L

RT: 4.523 min Scan# 1082

Delta R.T. 0.003 min

Lab File: VV031526.D

Acq: 15 Jun 2023 13:18

Instrument :

MSVOA_V

ClientSampleId :

EXYS4

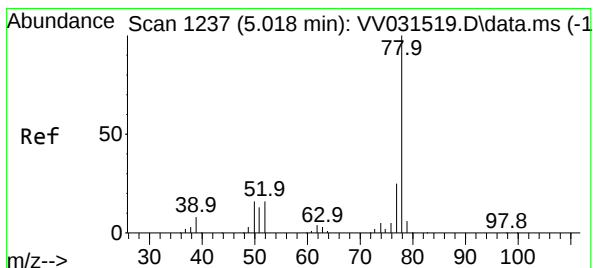
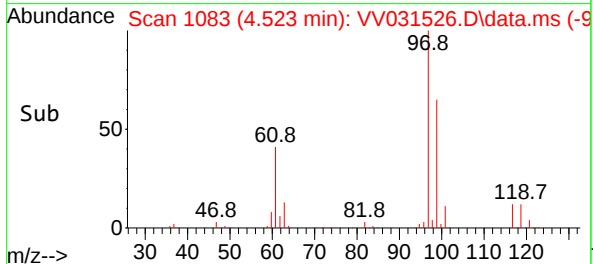
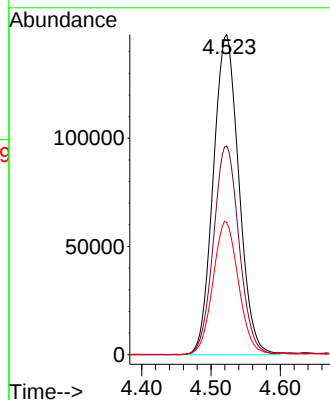
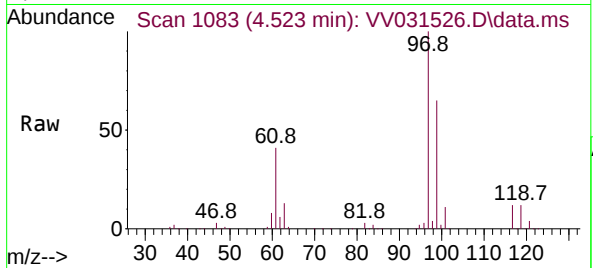
Tgt Ion: 97 Resp: 380142

Ion Ratio Lower Upper

97 100

99 65.2 51.8 77.6

61 41.7 33.0 49.6



#33

Benzene

Concen: 11.976 ug/L

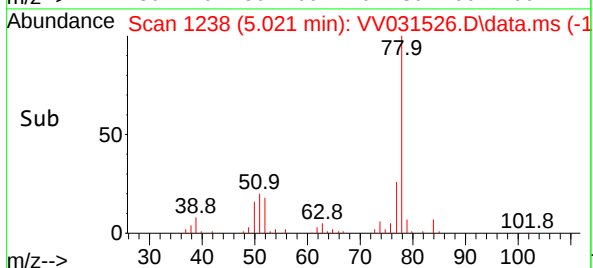
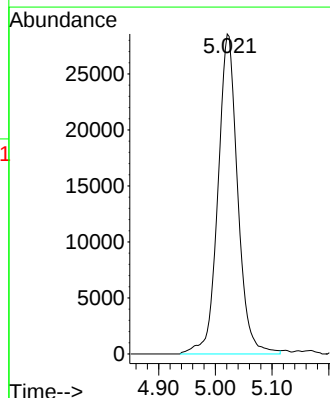
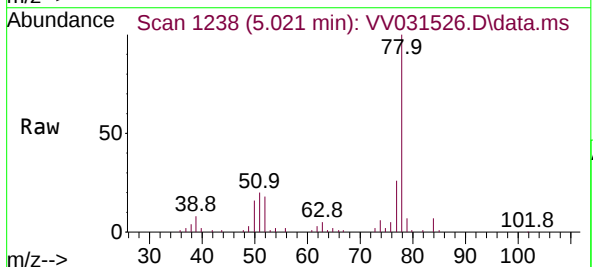
RT: 5.021 min Scan# 1238

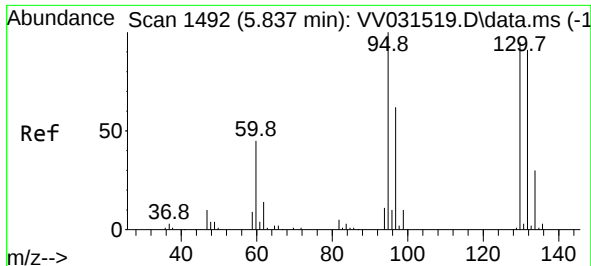
Delta R.T. 0.003 min

Lab File: VV031526.D

Acq: 15 Jun 2023 13:18

Tgt Ion: 78 Resp: 69209





#34

Trichloroethene

Concen: 19.817 ug/L

RT: 5.841 min Scan# 14

Delta R.T. 0.003 min

Lab File: VV031526.D

Acq: 15 Jun 2023 13:18

Instrument :

MSVOA_V

ClientSampleId :

EXYS4

Tgt Ion: 95 Resp: 30602

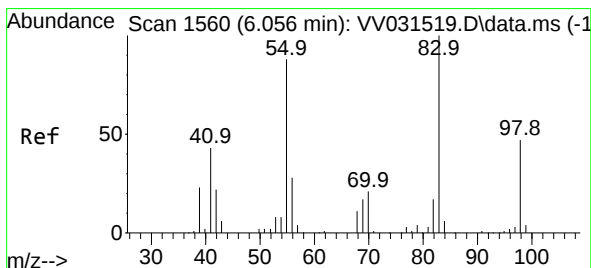
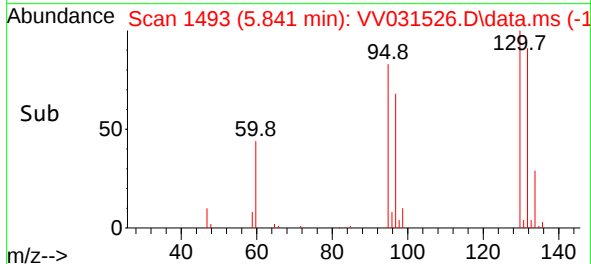
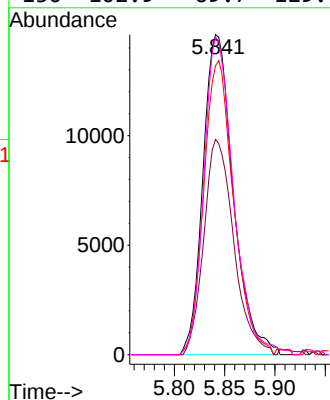
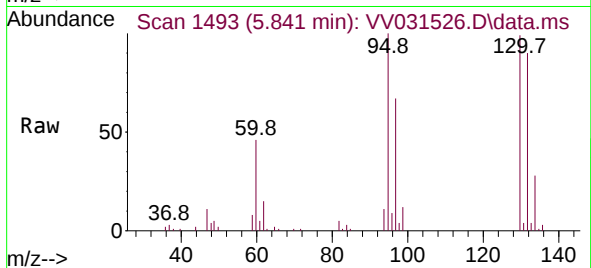
Ion Ratio Lower Upper

95 100

97 71.3 46.8 86.8

132 93.9 66.4 123.2

130 102.9 69.7 129.4



#35

Methylcyclohexane

Concen: 1.735 ug/L

RT: 6.053 min Scan# 1559

Delta R.T. -0.003 min

Lab File: VV031526.D

Acq: 15 Jun 2023 13:18

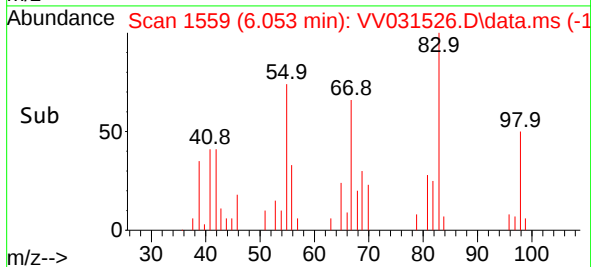
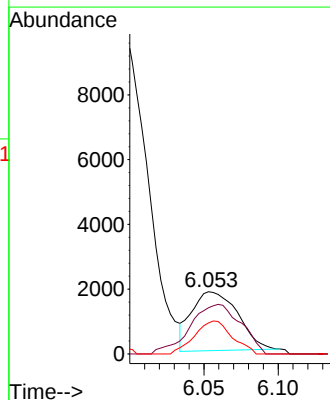
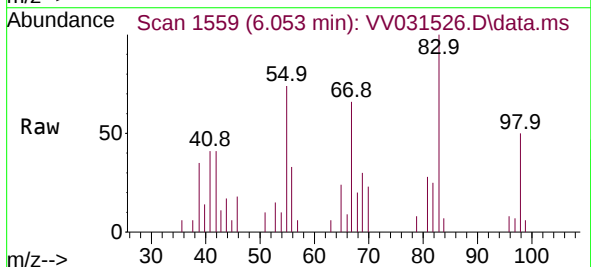
Tgt Ion: 83 Resp: 3948

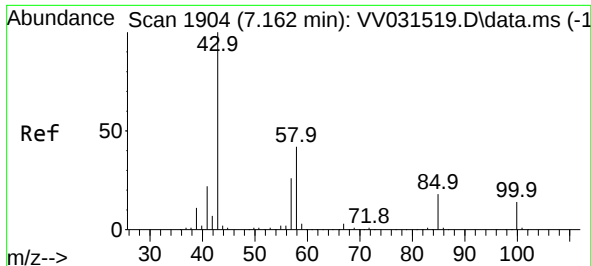
Ion Ratio Lower Upper

83 100

55 92.2 68.7 103.1

98 45.2 37.0 55.4





#40

4-Methyl-2-pentanone

Concen: 3.478 ug/L

RT: 7.178 min Scan# 1909

Delta R.T. 0.016 min

Lab File: VV031526.D

Acq: 15 Jun 2023 13:18

Instrument :

MSVOA_V

ClientSampleId :

EXYS4

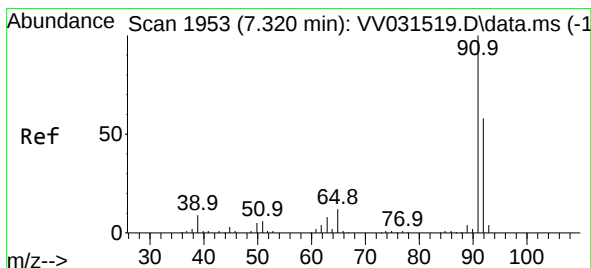
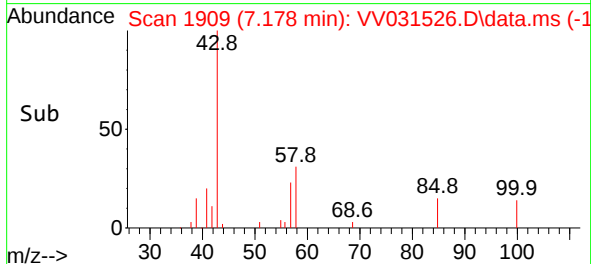
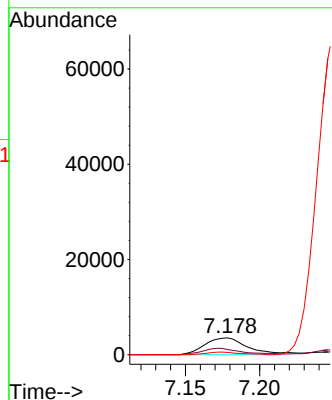
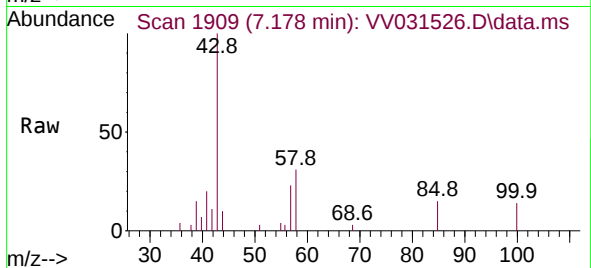
Tgt Ion: 43 Resp: 6931

Ion Ratio Lower Upper

43 100

58 36.1 31.8 47.8

100 12.4 11.1 16.7



#42

Toluene

Concen: 46.715 ug/L

RT: 7.323 min Scan# 1954

Delta R.T. 0.003 min

Lab File: VV031526.D

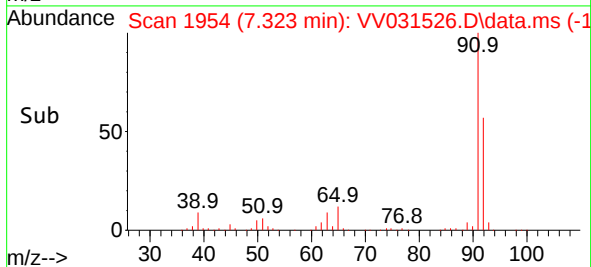
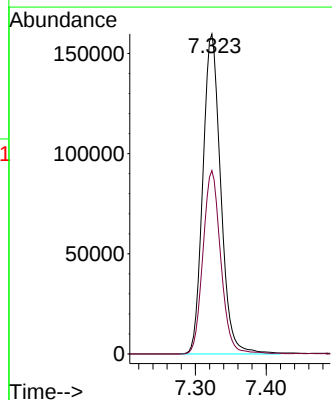
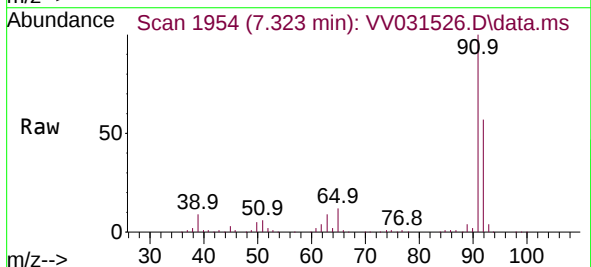
Acq: 15 Jun 2023 13:18

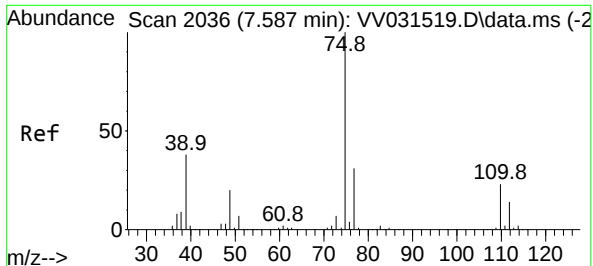
Tgt Ion: 91 Resp: 279903

Ion Ratio Lower Upper

91 100

92 57.3 39.6 73.6

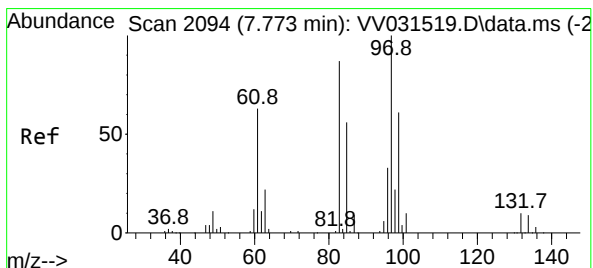
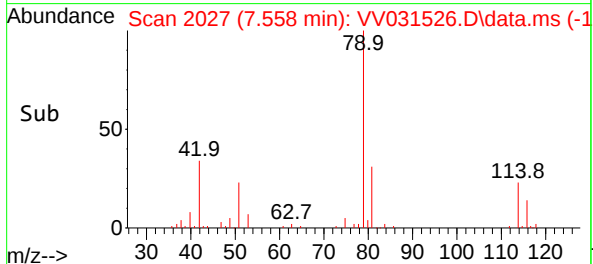
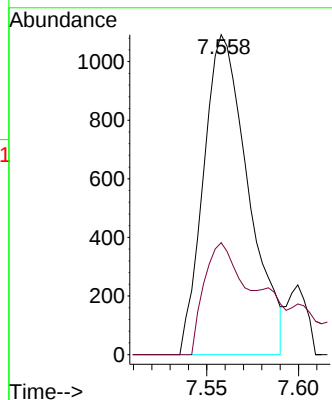
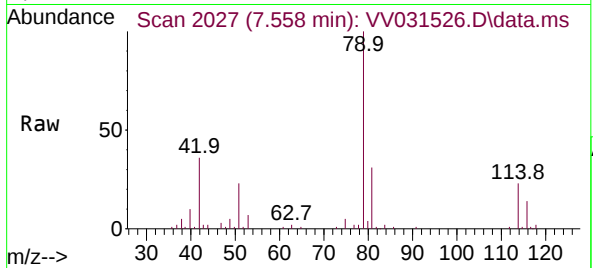




#44
trans-1,3-Dichloropropene
Concen: 0.756 ug/L
RT: 7.558 min Scan# 2036
Delta R.T. -0.029 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

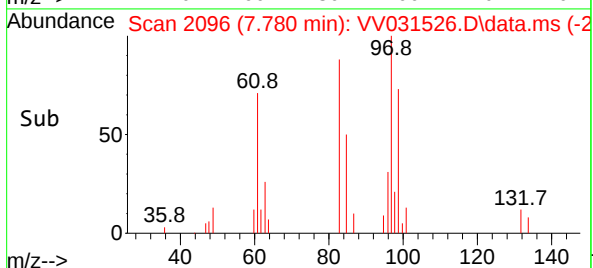
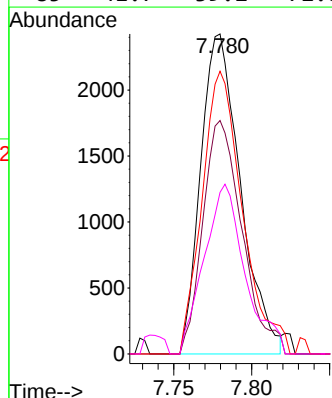
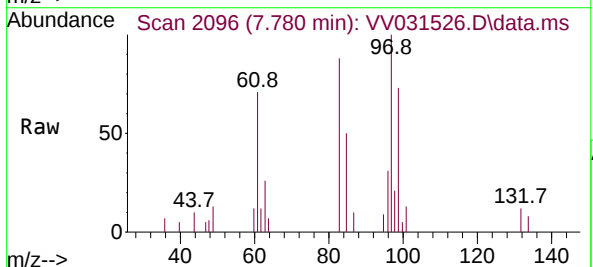
Instrument :
MSVOA_V
ClientSampleId :
EXYS4

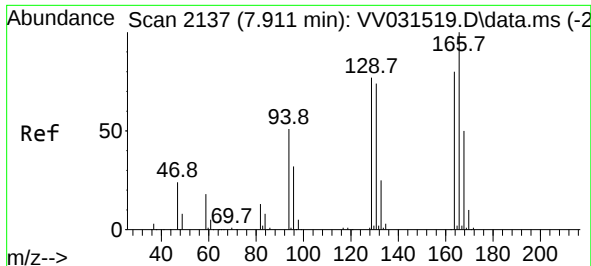
Tgt Ion: 75 Resp: 1855
Ion Ratio Lower Upper
75 100
77 35.0 22.1 41.1



#45
1,1,2-Trichloroethane
Concen: 2.680 ug/L
RT: 7.780 min Scan# 2096
Delta R.T. 0.007 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

Tgt Ion: 97 Resp: 4296
Ion Ratio Lower Upper
97 100
99 60.2 43.7 81.1
83 72.9 60.9 113.1
85 41.7 39.2 72.8

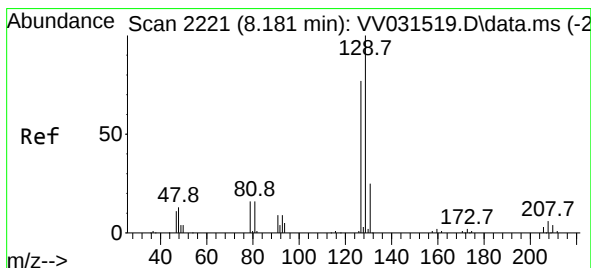
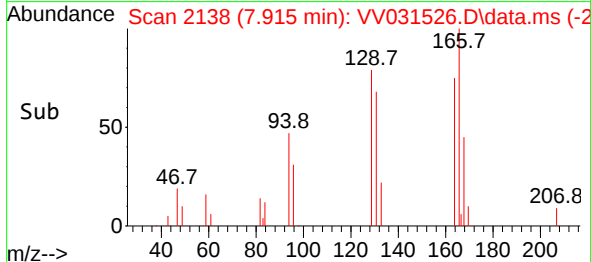
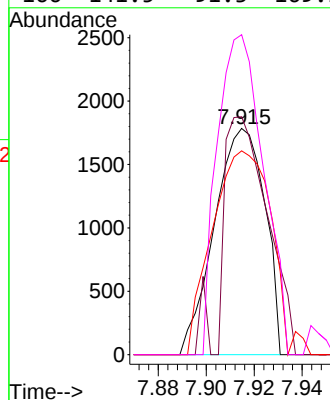
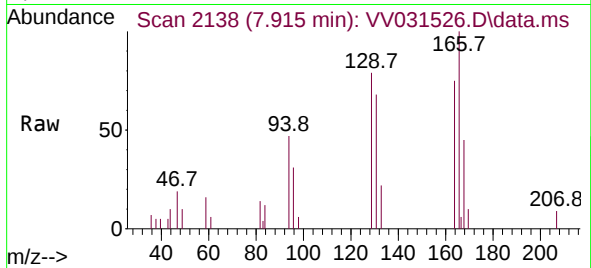




#46
Tetrachloroethene
Concen: 2.144 ug/L
RT: 7.915 min Scan# 2137
Delta R.T. 0.003 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

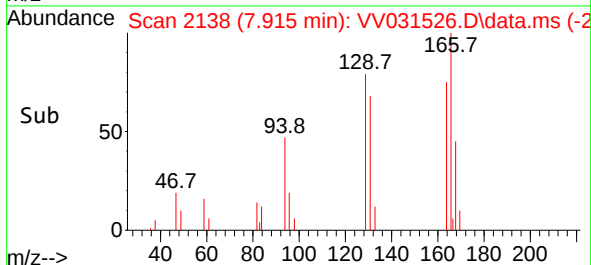
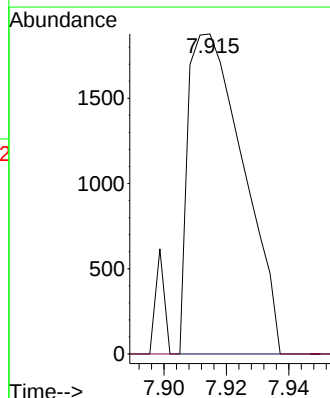
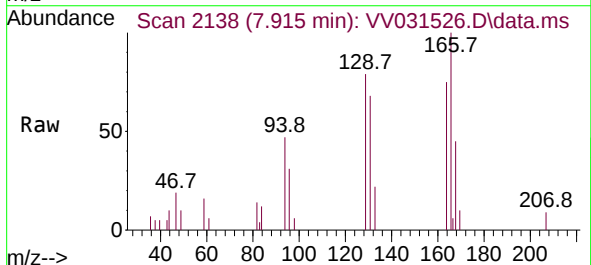
Instrument :
MSVOA_V
ClientSampleId :
EXYS4

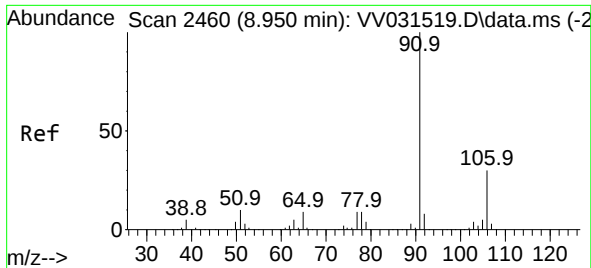
Tgt Ion:	164	Resp:	2598
Ion	Ratio	Lower	Upper
164	100		
129	105.2	68.4	127.0
131	90.1	67.6	125.6
166	141.5	91.3	169.5



#49
Dibromochloromethane
Concen: 1.290 ug/L
RT: 7.915 min Scan# 2138
Delta R.T. -0.267 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

Tgt Ion:	129	Resp:	2298
Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.8	103.6#





#52

Ethylbenzene

Concen: 145.631 ug/L

RT: 8.953 min Scan# 2460

Delta R.T. 0.003 min

Lab File: VV031526.D

Acq: 15 Jun 2023 13:18

Instrument :

MSVOA_V

ClientSampleId :

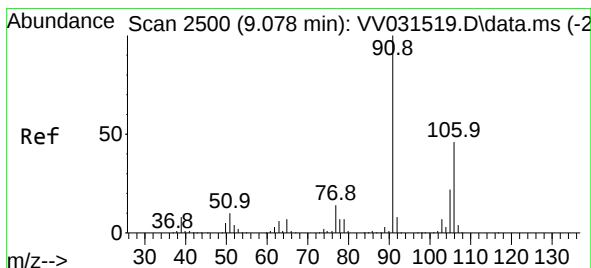
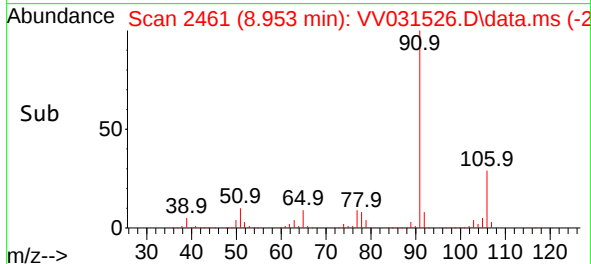
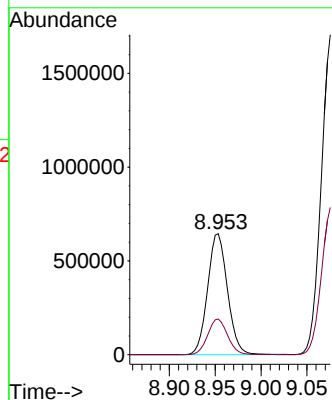
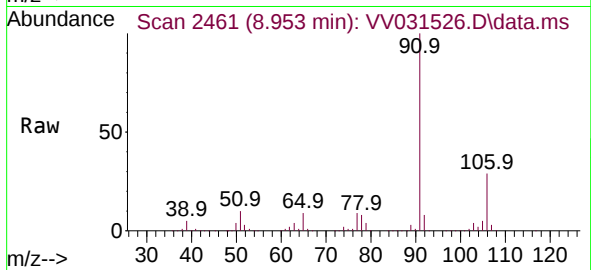
EXYS4

Tgt Ion: 91 Resp: 973645

Ion Ratio Lower Upper

91 100

106 29.5 20.8 38.6



#53

m,p-Xylene

Concen: 511.382 ug/L

RT: 9.079 min Scan# 2500

Delta R.T. 0.000 min

Lab File: VV031526.D

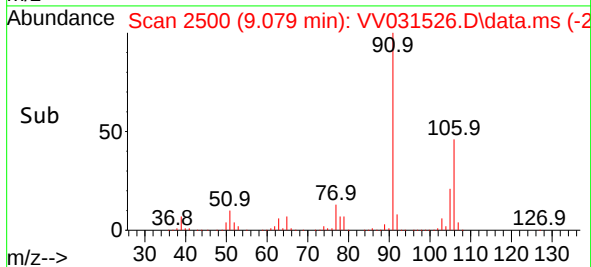
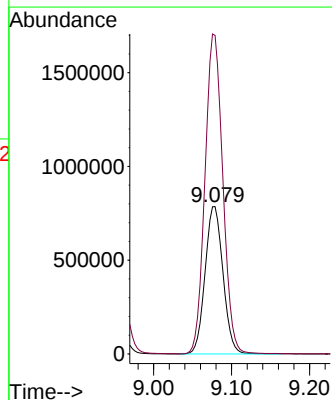
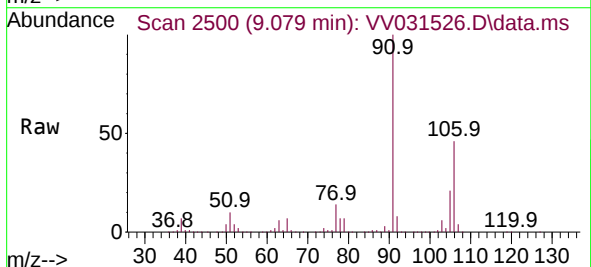
Acq: 15 Jun 2023 13:18

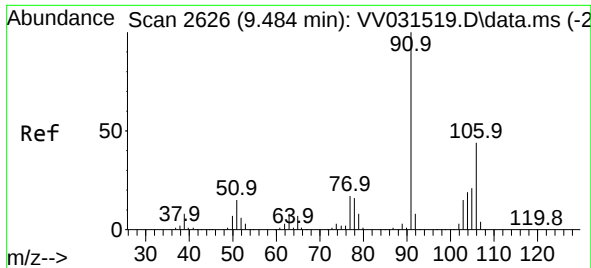
Tgt Ion:106 Resp: 1252062

Ion Ratio Lower Upper

106 100

91 216.1 149.0 276.6

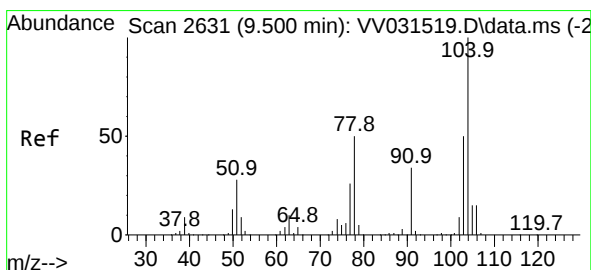
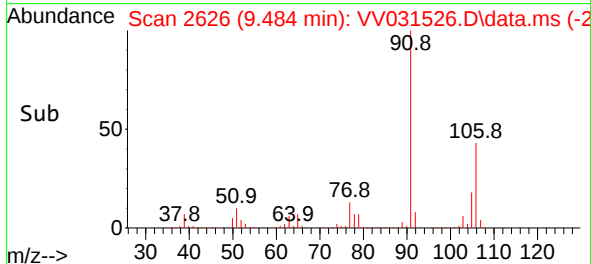
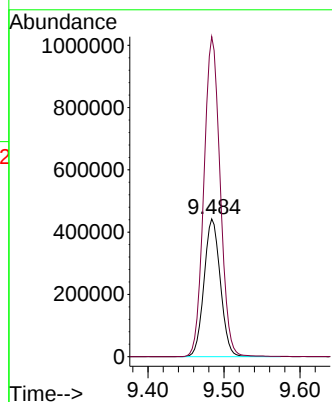
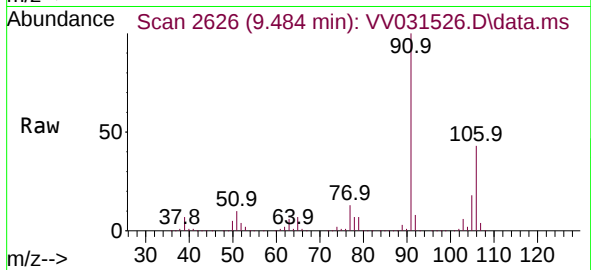




#54
o-Xylene
Concen: 283.894 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.000 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

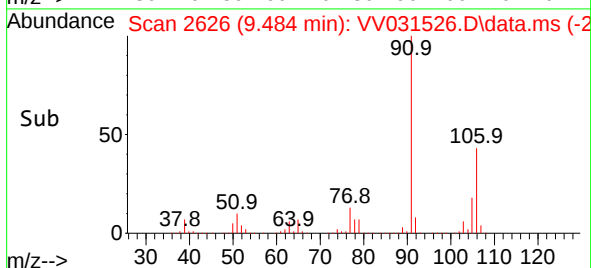
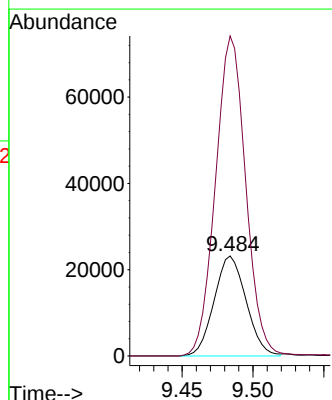
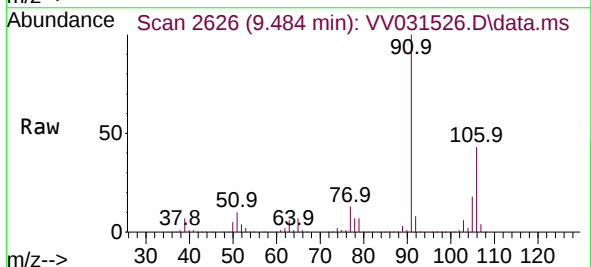
Instrument :
MSVOA_V
ClientSampleId :
EXYS4

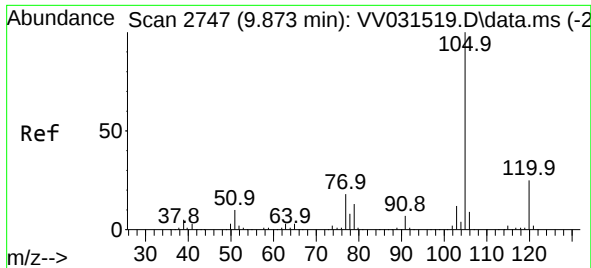
Tgt Ion:106 Resp: 659616
Ion Ratio Lower Upper
106 100
91 232.4 161.3 299.7



#55
Styrene
Concen: 8.774 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. -0.016 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

Tgt Ion:104 Resp: 36410
Ion Ratio Lower Upper
104 100
78 320.2 35.1 65.3#

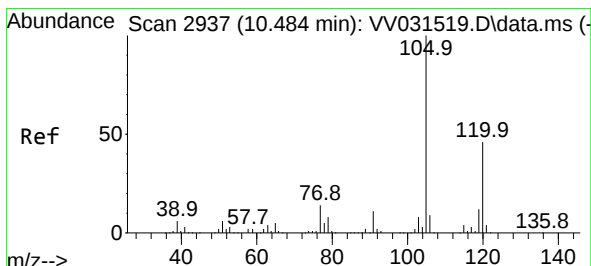
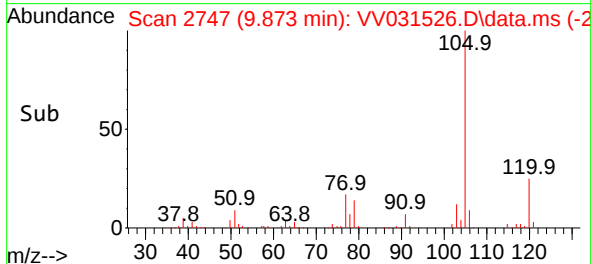
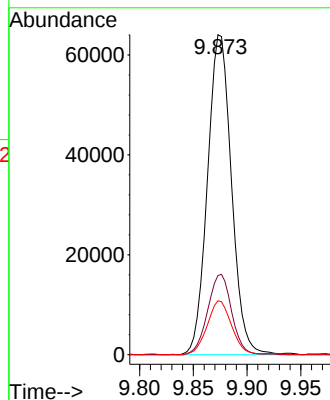
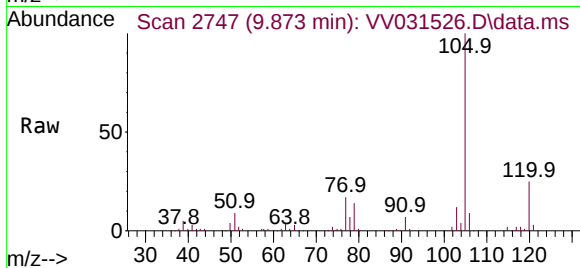




#60
Isopropylbenzene
Concen: 14.011 ug/L
RT: 9.873 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

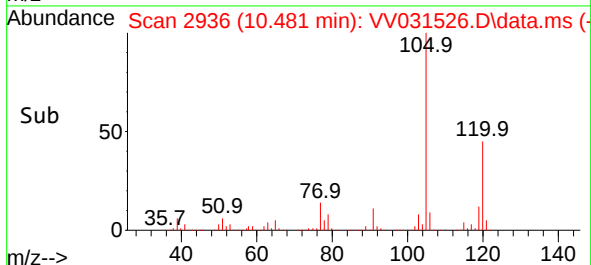
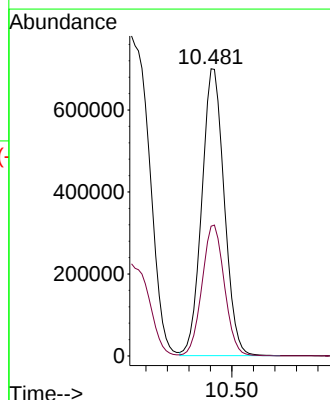
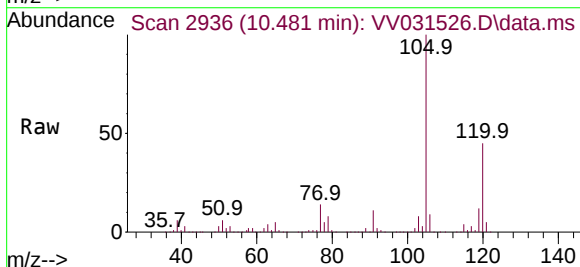
Instrument :
MSVOA_V
ClientSampleId :
EXYS4

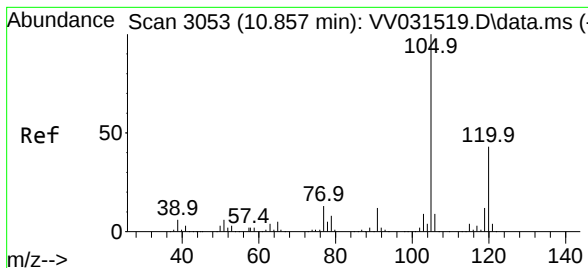
Tgt Ion:105 Resp: 99545
Ion Ratio Lower Upper
105 100
120 25.0 20.2 30.2
77 17.1 13.5 20.3



#62
1,3,5-Trimethylbenzene
Concen: 172.958 ug/L
RT: 10.481 min Scan# 2936
Delta R.T. -0.003 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

Tgt Ion:105 Resp: 1015608
Ion Ratio Lower Upper
105 100
120 45.5 36.2 54.2





#63

1,2,4-Trimethylbenzene

Concen: 983.175 ug/L

RT: 10.860 min Scan# 3053

Delta R.T. 0.003 min

Lab File: VV031526.D

Acq: 15 Jun 2023 13:18

Instrument :

MSVOA_V

ClientSampleId :

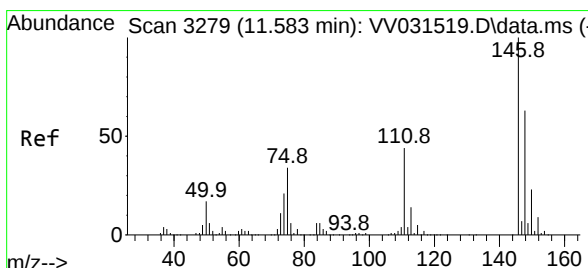
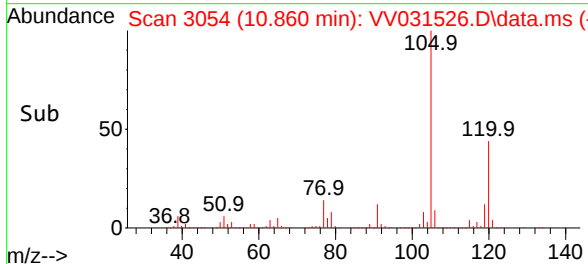
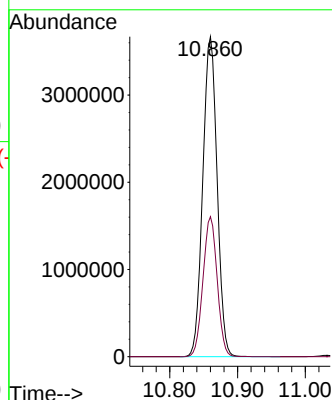
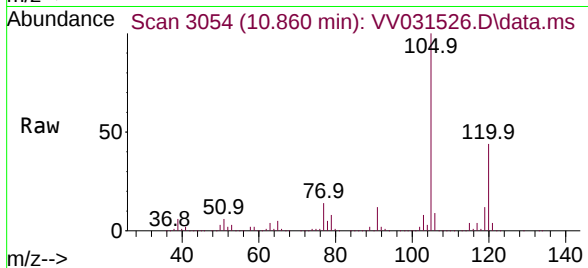
EXYS4

Tgt Ion:105 Resp: 5379204

Ion Ratio Lower Upper

105 100

120 43.3 33.4 50.2



#67

1,2-Dichlorobenzene

Concen: 17.845 ug/L

RT: 11.587 min Scan# 3280

Delta R.T. 0.003 min

Lab File: VV031526.D

Acq: 15 Jun 2023 13:18

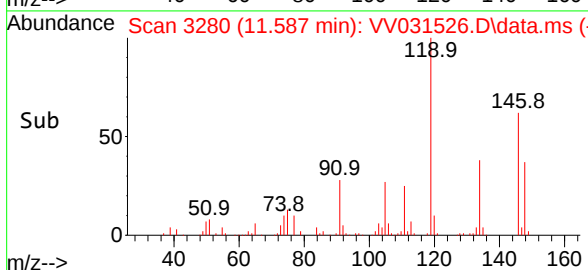
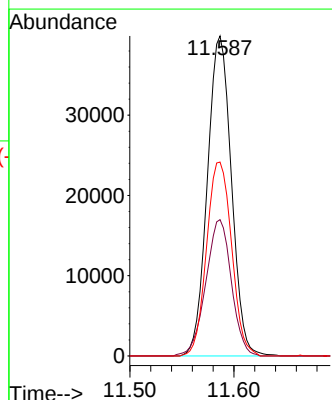
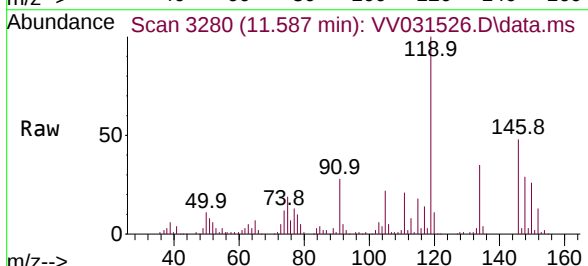
Tgt Ion:146 Resp: 64154

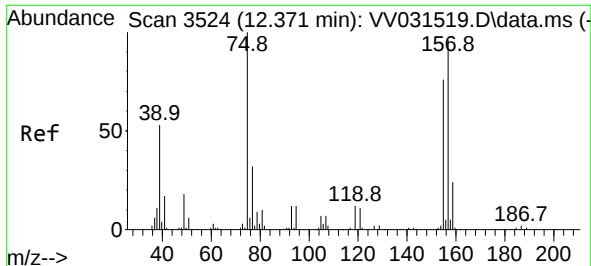
Ion Ratio Lower Upper

146 100

111 42.6 35.9 53.9

148 60.6 52.6 78.8

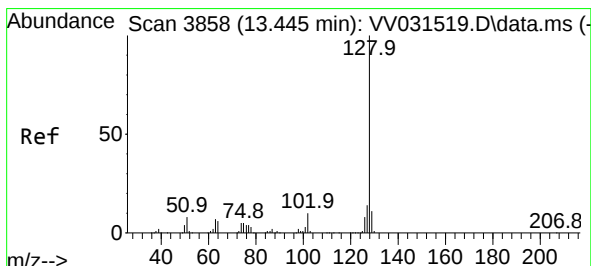
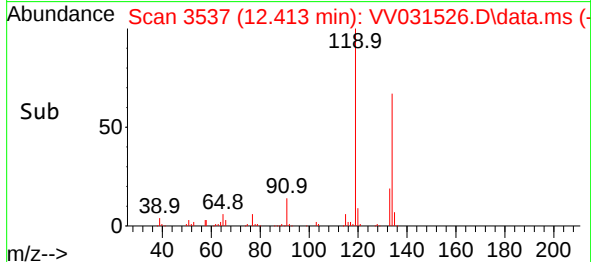
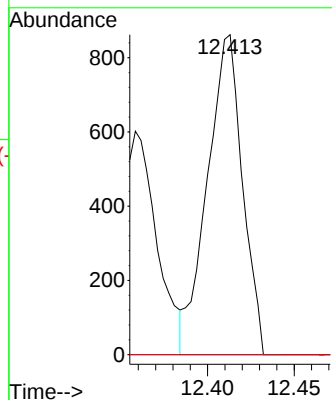
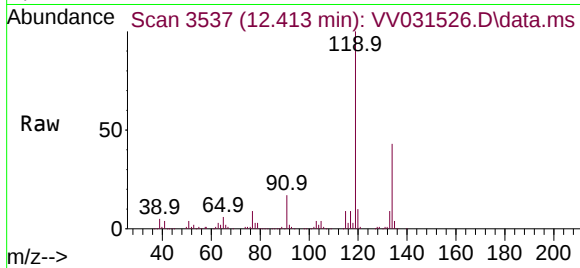




#68
1,2-Dibromo-3-chloropropane
Concen: 1.857 ug/L
RT: 12.413 min Scan# 3524
Delta R.T. 0.042 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

Instrument :
MSVOA_V
ClientSampleId :
EXYS4

Tgt Ion: 75 Resp: 1213
Ion Ratio Lower Upper
75 100
155 0.0 63.2 94.8#
157 0.0 85.3 127.9#



#71
Naphthalene
Concen: 42.512 ug/L
RT: 13.445 min Scan# 3858
Delta R.T. 0.000 min
Lab File: VV031526.D
Acq: 15 Jun 2023 13:18

Tgt Ion: 128 Resp: 256177
Ion Ratio Lower Upper
128 100
127 13.6 10.6 16.0
129 11.0 8.6 13.0

