

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082923\
 Data File : VX037370.D
 Acq On : 30 Aug 2023 05:10
 Operator : JC/MD
 Sample : 04198-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OR-309-OK-370-VOC-24

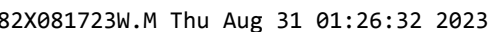
Quant Time: Aug 31 01:26:25 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 18 09:30:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	157537	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	260568	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	235302	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	106260	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	97810	43.066	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	86.140%		
35) Dibromofluoromethane	5.385	113	80897	46.878	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.760%		
50) Toluene-d8	8.647	98	311096	49.698	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.400%		
62) 4-Bromofluorobenzene	11.079	95	114367	46.491	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.980%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.130	74	1223	1.107	ug/l	86
11) Tert butyl alcohol	2.959	59	323	0.606	ug/l #	78
16) Acetone	2.380	43	22562	25.393	ug/l #	89
18) Methyl Acetate	2.703	43	2478	0.741	ug/l	95
20) Methylene Chloride	2.788	84	18628	9.375	ug/l #	85
25) 2-Butanone	4.568	43	7524	5.624	ug/l	92
29) Tetrahydrofuran	5.032	42	210	0.246	ug/l #	41
31) Cyclohexane	5.544	56	2904	1.137	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	12147	4.954	ug/l #	51
37) Ethyl Acetate	4.727	43	2849	1.138	ug/l #	85
38) Carbon Tetrachloride	5.550	117	16633	6.245	ug/l #	15
43) Isopropyl Acetate	6.342	43	85276	21.447	ug/l #	90
48) Methyl methacrylate	7.799	41	75762	39.071	ug/l #	46
49) 1,4-Dioxane	7.799	88	173	3.313	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	83526	34.595	ug/l #	37
53) t-1,3-Dichloropropene	8.958	75	643	0.231	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	37311	12.395	ug/l #	49
56) Ethyl methacrylate	9.244	69	737	0.249	ug/l #	1
57) 1,3-Dichloropropane	9.482	76	4756	1.491	ug/l #	42
59) 2-Hexanone	9.482	43	55386	30.086	ug/l #	55
76) 1,2,3-Trichloropropane	11.079	75	56142	24.809	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	56142	69.292	ug/l #	5

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

Quant Time: Aug 31 01:26:25 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 18 09:30:38 2023
Response via : Initial Calibration

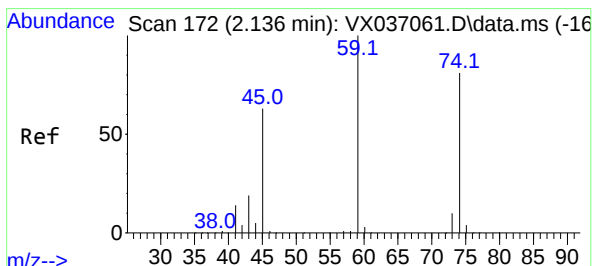
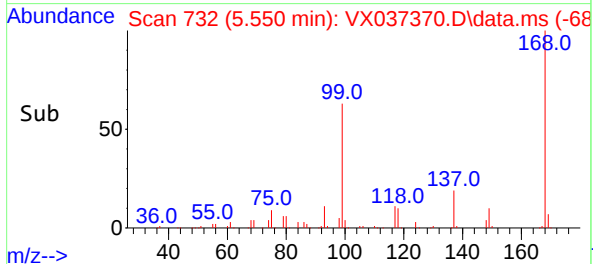
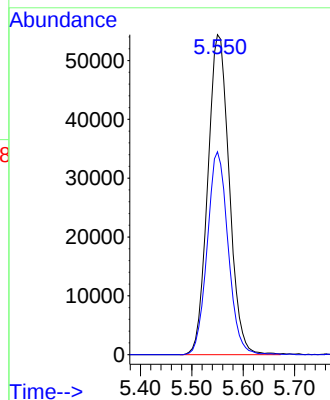
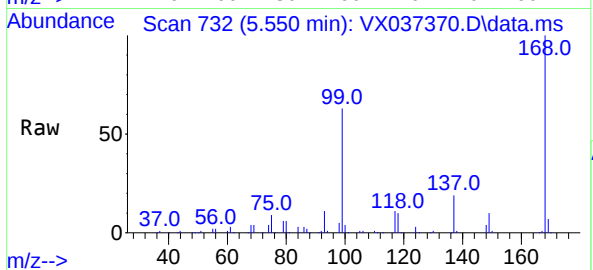




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

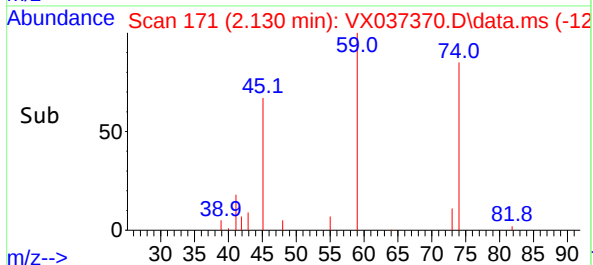
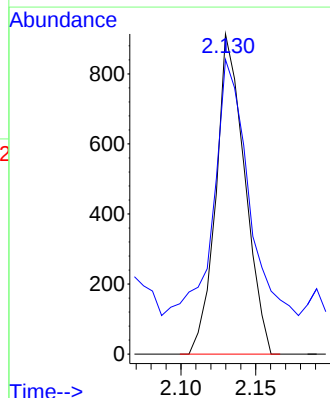
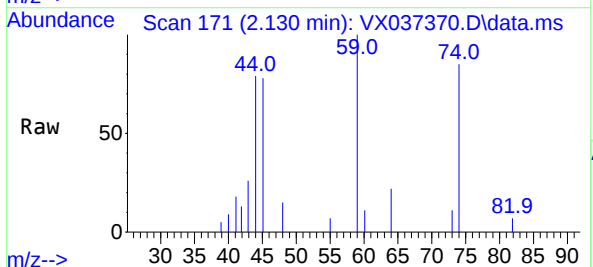
Instrument :
MSVOA_X
ClientSampleId :
OR-309-OK-370-VOC-24

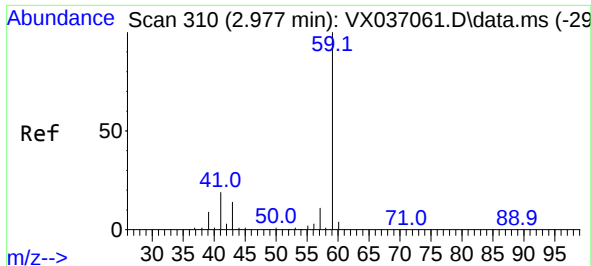
Tgt Ion:168 Resp: 157537
Ion Ratio Lower Upper
168 100
99 63.4 56.6 85.0



#8
Diethyl Ether
Concen: 1.107 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Tgt Ion: 74 Resp: 1223
Ion Ratio Lower Upper
74 100
45 92.2 53.3 159.8

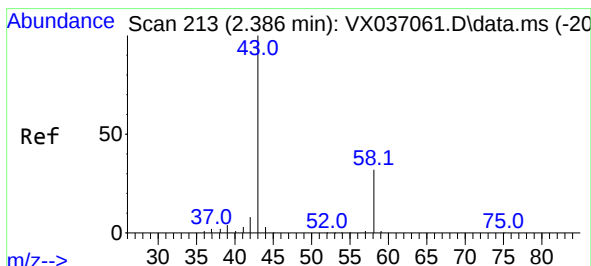
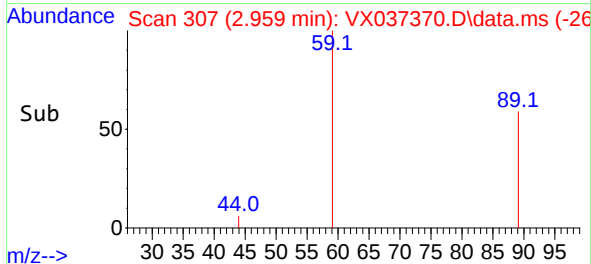
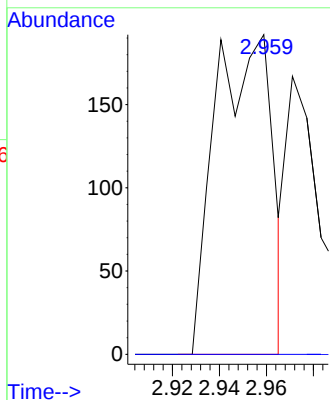
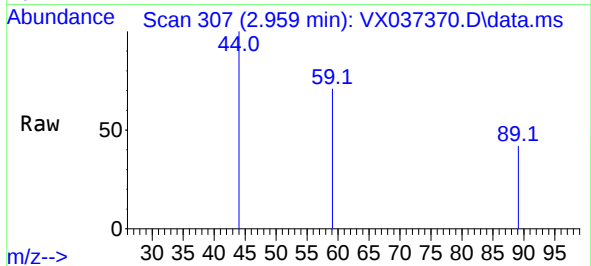




#11
Tert butyl alcohol
Concen: 0.606 ug/l
RT: 2.959 min Scan# 307
Delta R.T. -0.018 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

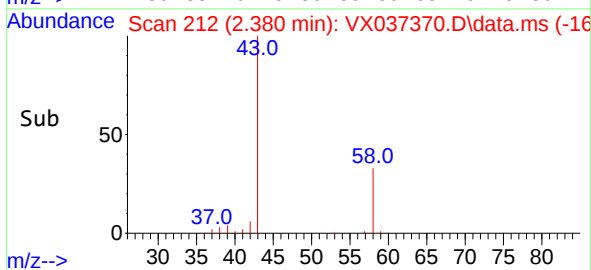
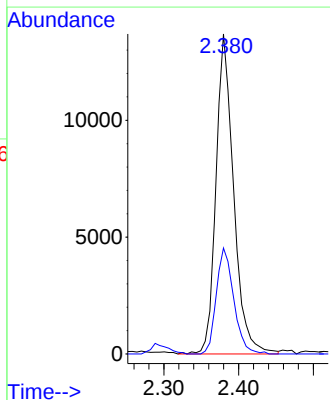
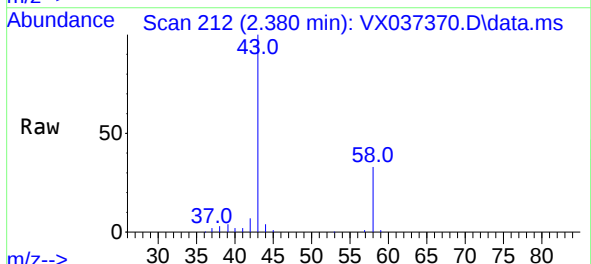
Instrument :
MSVOA_X
ClientSampleId :
OR-309-OK-370-VOC-24

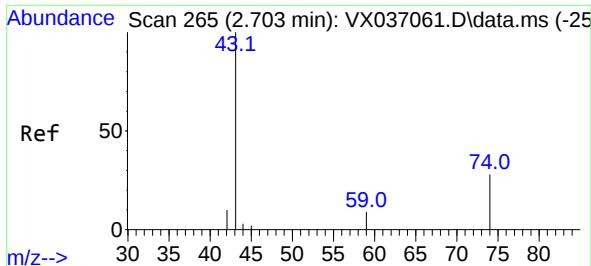
Tgt Ion: 59 Resp: 323
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#



#16
Acetone
Concen: 25.393 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Tgt Ion: 43 Resp: 22562
Ion Ratio Lower Upper
43 100
58 33.1 21.9 32.9#

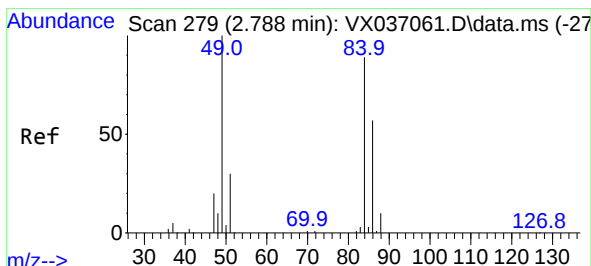
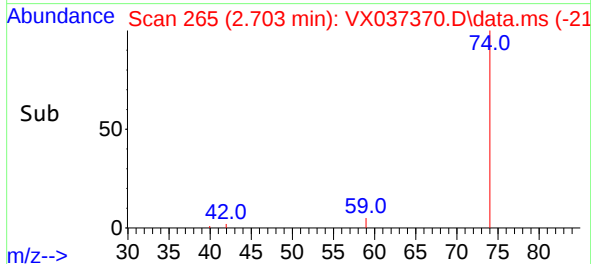
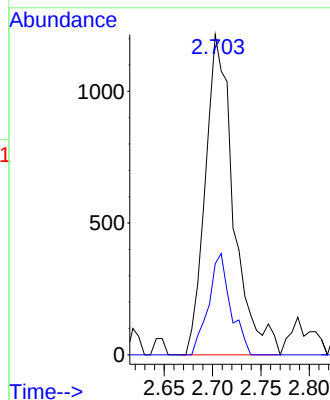
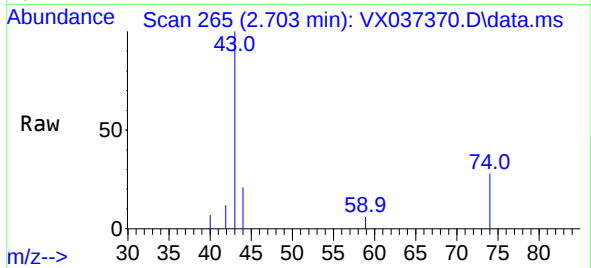




#18
Methyl Acetate
Concen: 0.741 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

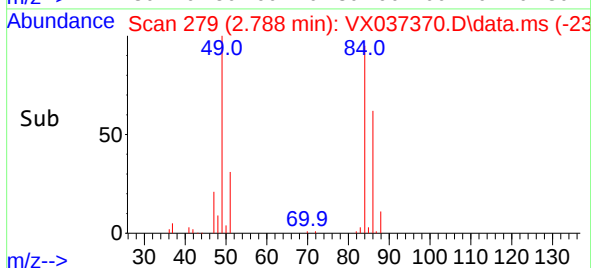
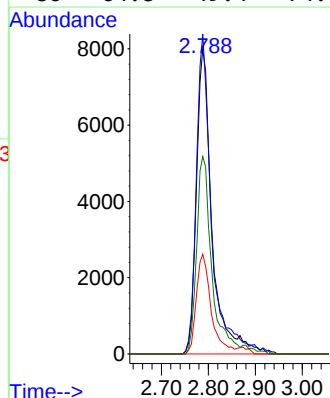
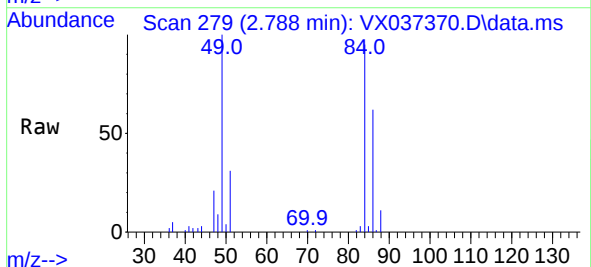
Instrument : MSVOA_X
ClientSampleId : OR-309-OK-370-VOC-24

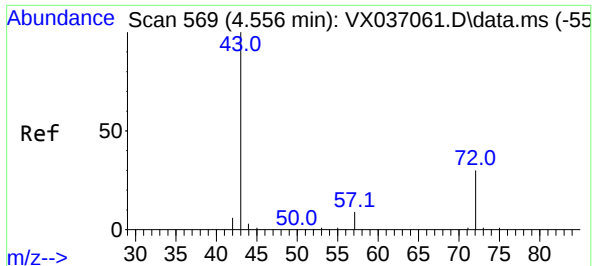
Tgt Ion: 43 Resp: 2478
Ion Ratio Lower Upper
43 100
74 24.7 17.8 26.8



#20
Methylene Chloride
Concen: 9.375 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Tgt Ion: 84 Resp: 18628
Ion Ratio Lower Upper
84 100
49 105.0 103.6 155.4
51 32.7 33.8 50.6#
86 64.8 49.4 74.0





#25

2-Butanone

Concen: 5.624 ug/l

RT: 4.568 min Scan# 5

Delta R.T. 0.012 min

Lab File: VX037370.D

Acq: 30 Aug 2023 05:10

Instrument :

MSVOA_X

ClientSampleId :

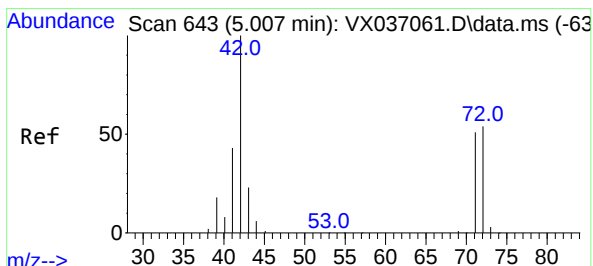
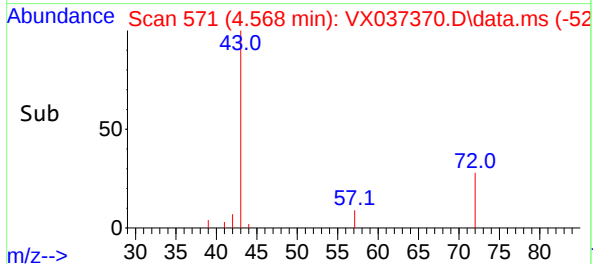
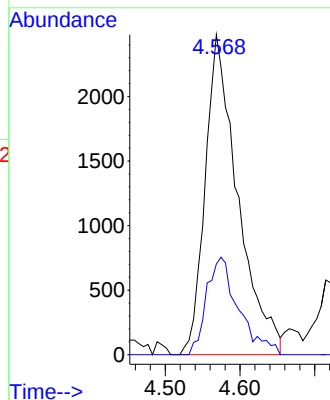
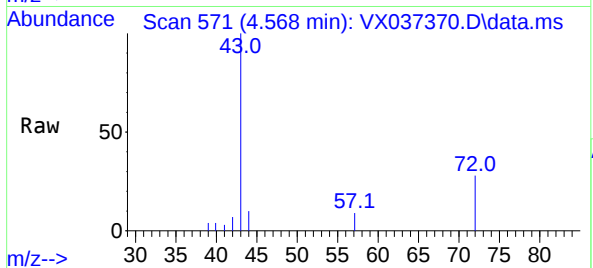
OR-309-OK-370-VOC-24

Tgt Ion: 43 Resp: 7524

Ion Ratio Lower Upper

43 100

72 28.4 19.4 29.2



#29

Tetrahydrofuran

Concen: 0.246 ug/l

RT: 5.032 min Scan# 647

Delta R.T. 0.025 min

Lab File: VX037370.D

Acq: 30 Aug 2023 05:10

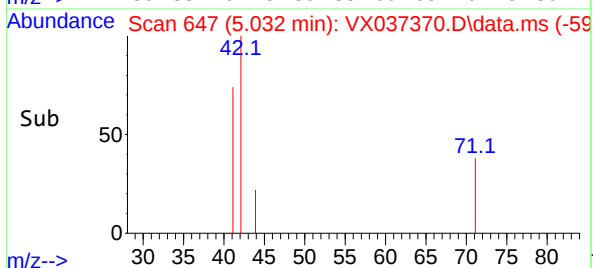
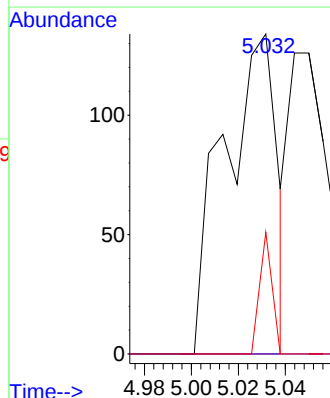
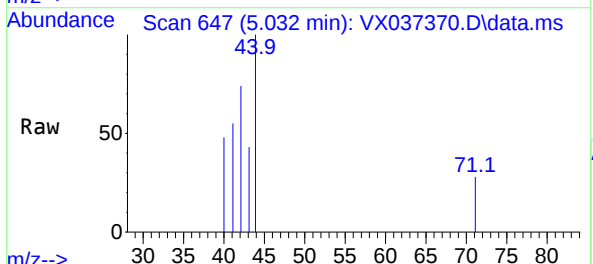
Tgt Ion: 42 Resp: 210

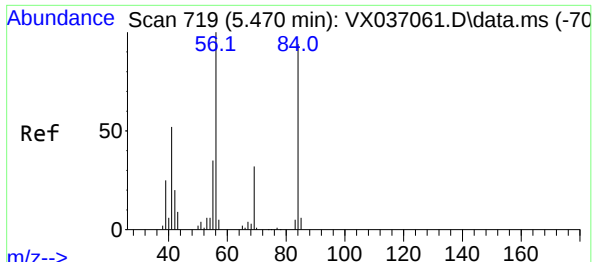
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.4#

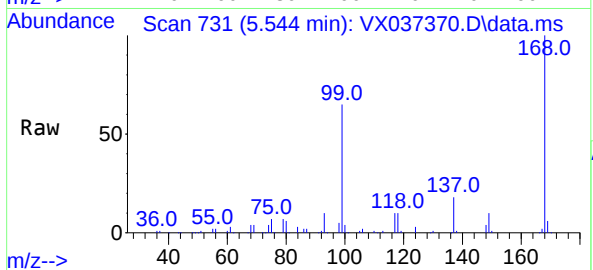
71 9.0 32.2 48.2#



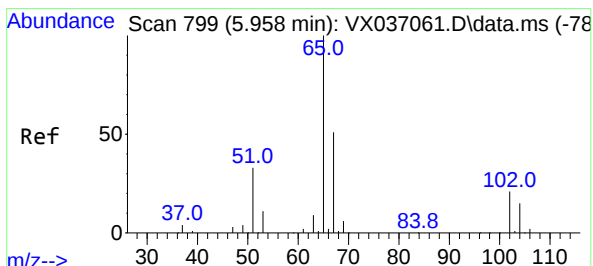
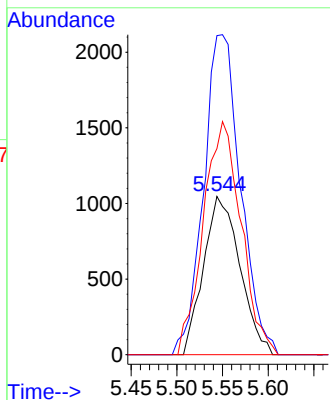
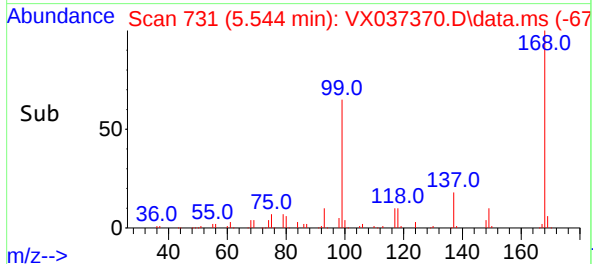


#31
Cyclohexane
Concen: 1.137 ug/l
RT: 5.544 min Scan# 719
Delta R.T. 0.073 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Instrument :
MSVOA_X
ClientSampleId :
OR-309-OK-370-VOC-24

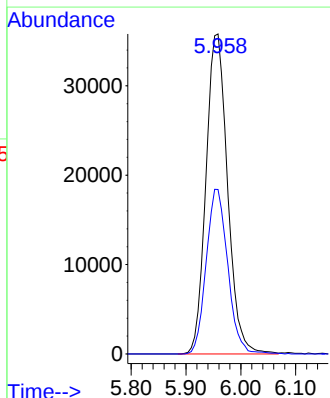
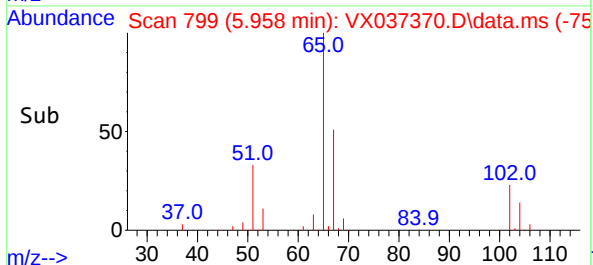
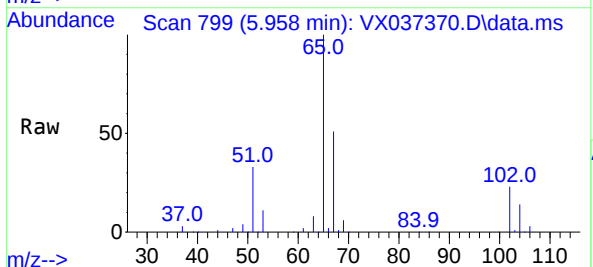


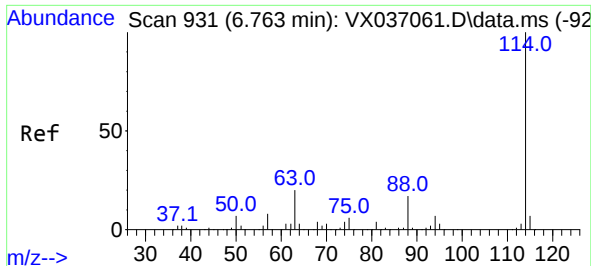
Tgt Ion: 56 Resp: 2904
Ion Ratio Lower Upper
56 100
69 201.5 23.4 35.2#
84 130.2 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 43.066 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Tgt Ion: 65 Resp: 97810
Ion Ratio Lower Upper
65 100
67 51.4 0.0 100.2

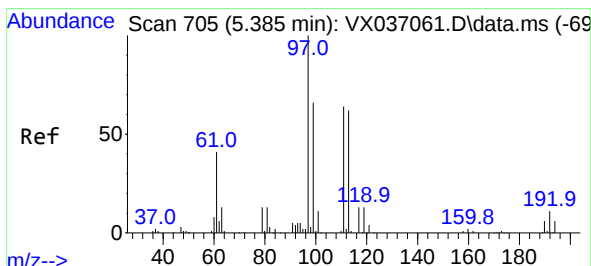
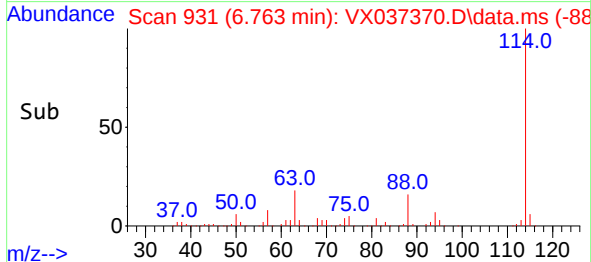
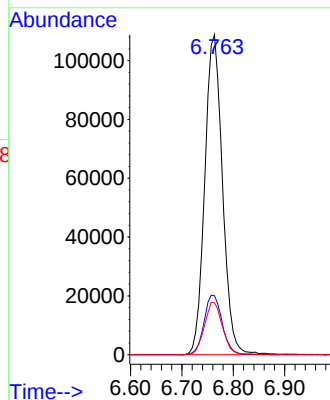
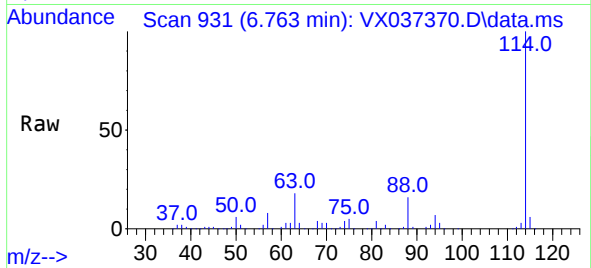




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

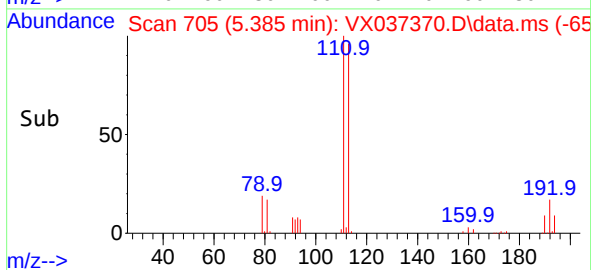
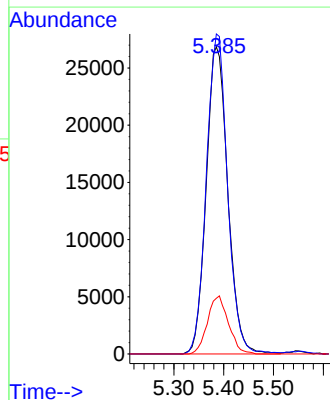
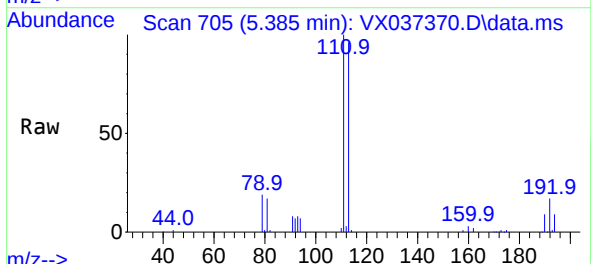
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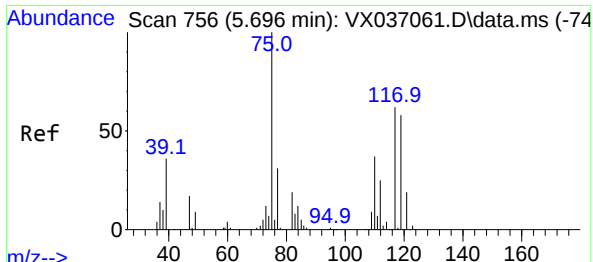
Tgt Ion:114 Resp: 260568
Ion Ratio Lower Upper
114 100
63 18.5 0.0 45.0
88 16.2 0.0 36.6



#35
Dibromofluoromethane
Concen: 46.878 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

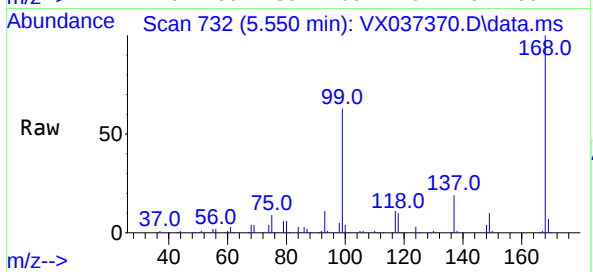
Tgt Ion:113 Resp: 80897
Ion Ratio Lower Upper
113 100
111 102.1 82.9 124.3
192 18.3 13.3 19.9



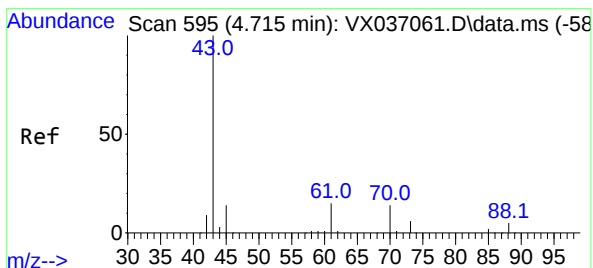
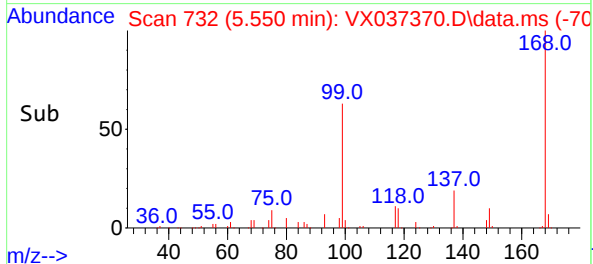
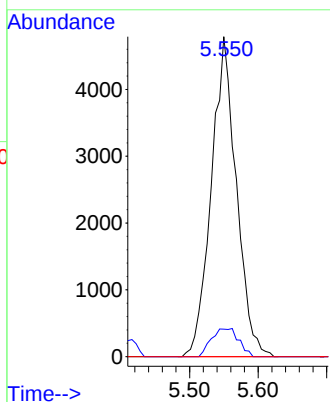


#36
1,1-Dichloropropene
Concen: 4.954 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Instrument :
MSVOA_X
ClientSampleId :
OR-309-OK-370-VOC-24

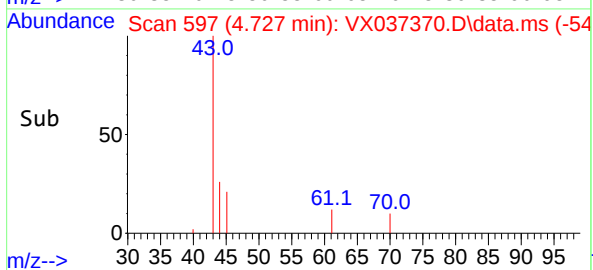
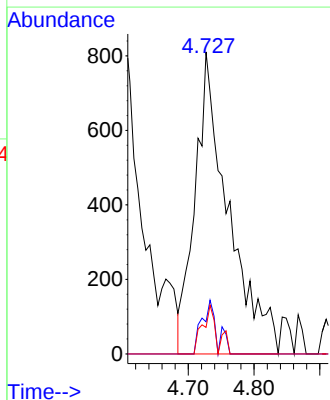
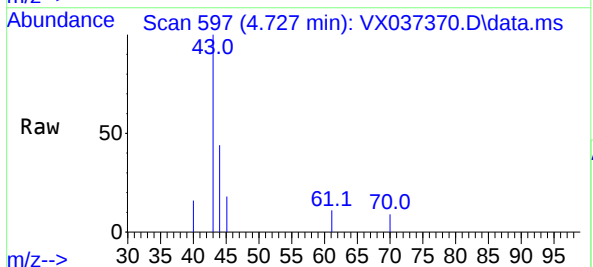


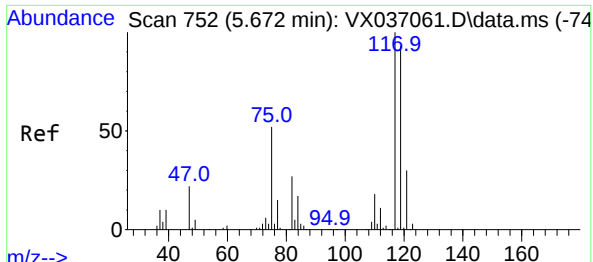
Tgt Ion: 75 Resp: 12147
Ion Ratio Lower Upper
75 100
110 9.6 17.0 50.9#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 1.138 ug/l
RT: 4.727 min Scan# 597
Delta R.T. 0.012 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

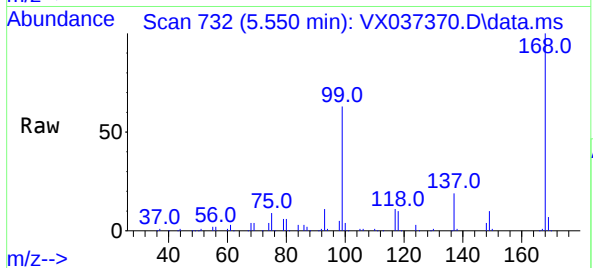
Tgt Ion: 43 Resp: 2849
Ion Ratio Lower Upper
43 100
61 6.5 10.6 16.0#
70 5.6 8.3 12.5#



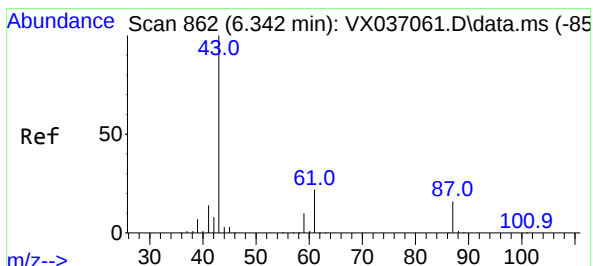
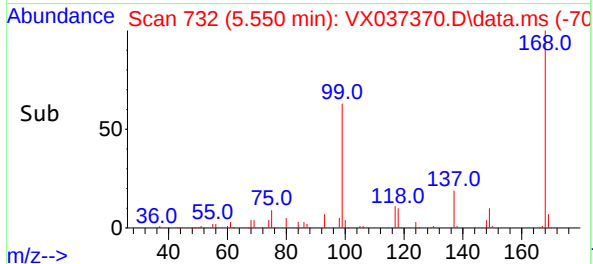
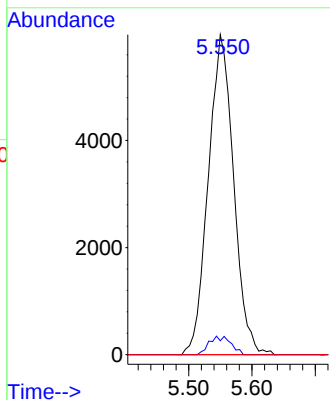


#38
Carbon Tetrachloride
Concen: 6.245 ug/l
RT: 5.550 min Scan# 711
Delta R.T. -0.122 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Instrument :
MSVOA_X
ClientSampleId :
OR-309-OK-370-VOC-24

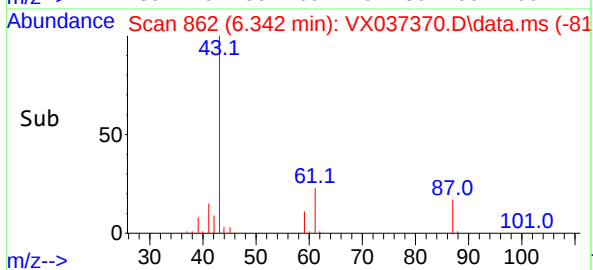
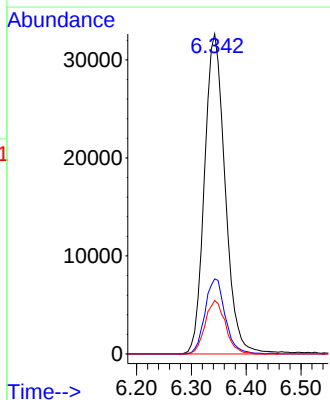
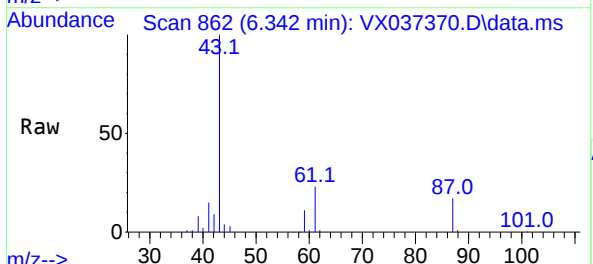


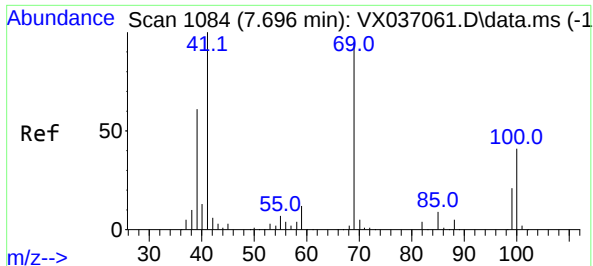
Tgt Ion:117 Resp: 16633
Ion Ratio Lower Upper
117 100
119 4.3 78.2 117.2#
121 0.0 24.4 36.6#



#43
Isopropyl Acetate
Concen: 21.447 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.000 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Tgt Ion: 43 Resp: 85276
Ion Ratio Lower Upper
43 100
61 23.0 15.2 22.8#
87 16.4 9.8 14.6#

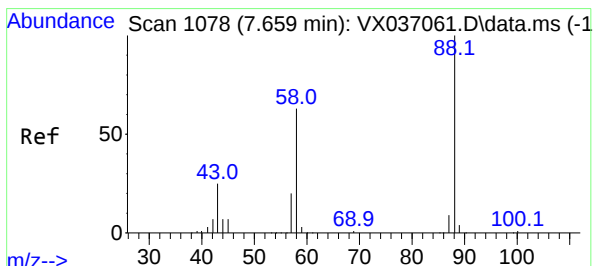
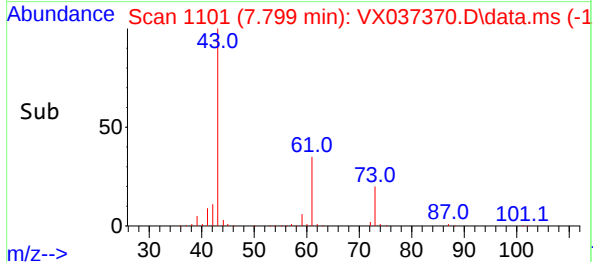
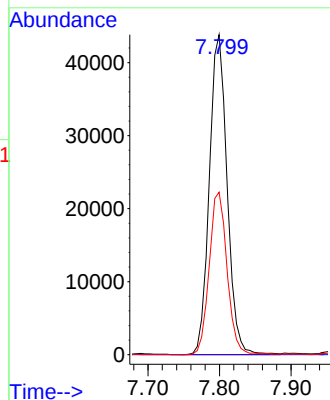
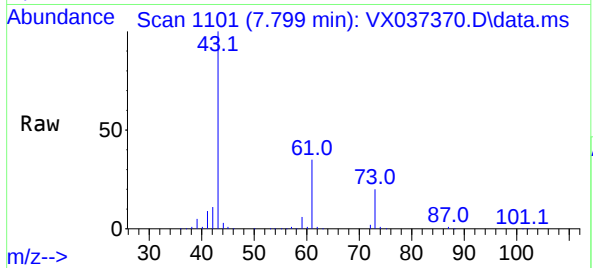




#48
Methyl methacrylate
Concen: 39.071 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.104 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

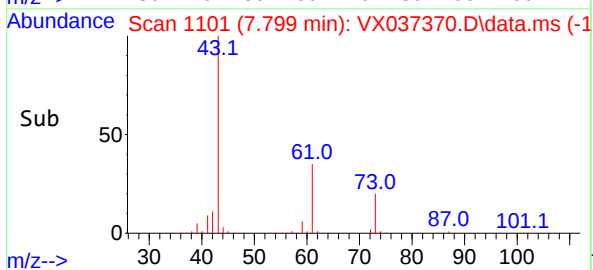
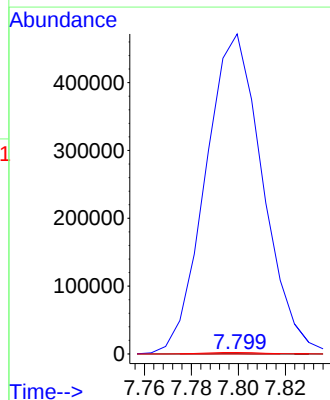
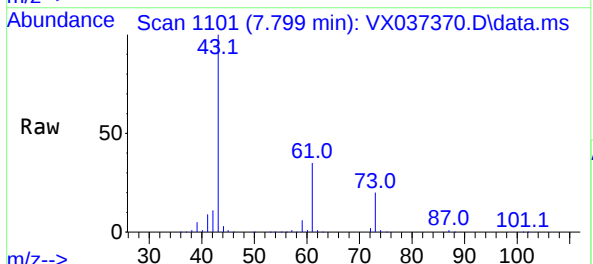
Instrument :
MSVOA_X
ClientSampleId :
OR-309-OK-370-VOC-24

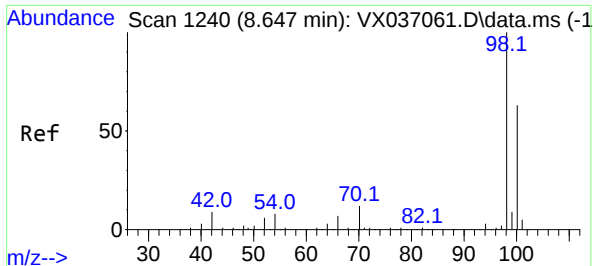
Tgt Ion: 41 Resp: 75762
Ion Ratio Lower Upper
41 100
69 0.0 59.2 88.8#
39 51.1 47.7 71.5



#49
1,4-Dioxane
Concen: 3.313 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.140 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Tgt Ion: 88 Resp: 173
Ion Ratio Lower Upper
88 100
43 467180.3 0.0 0.0#
58 2234.1 60.1 90.1#

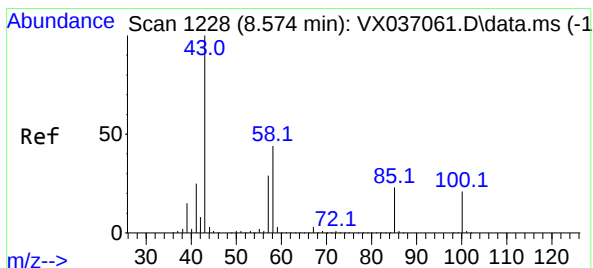
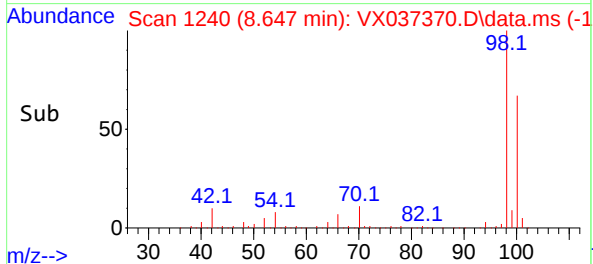
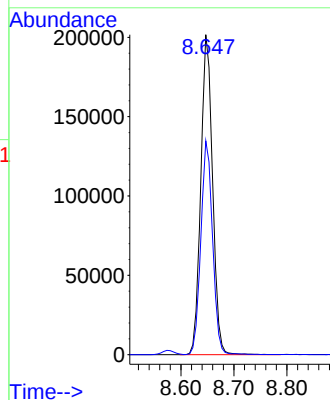
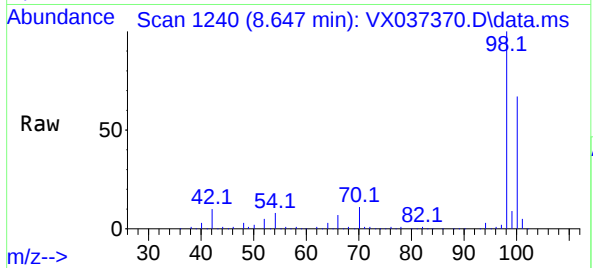




#50
Toluene-d8
Concen: 49.698 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

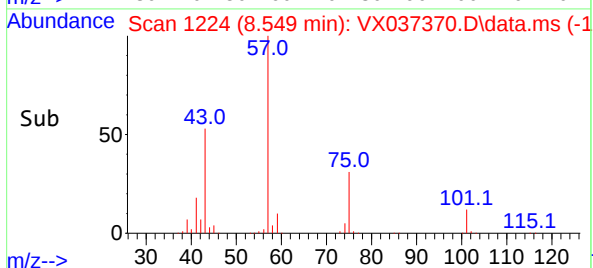
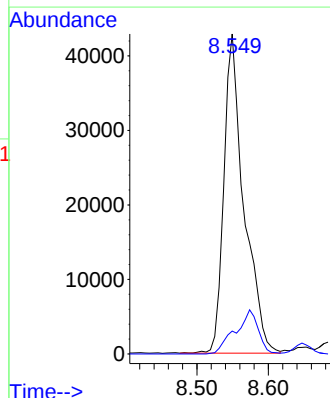
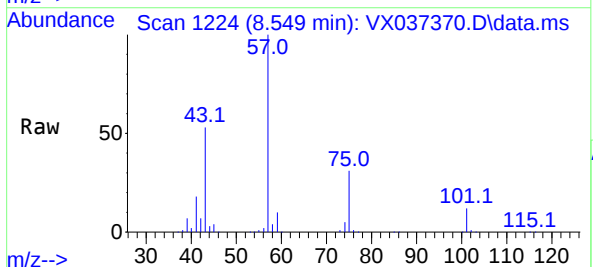
Instrument :
MSVOA_X
ClientSampleId :
OR-309-OK-370-VOC-24

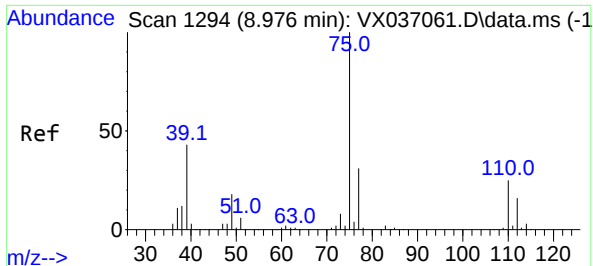
Tgt Ion: 98 Resp: 311096
Ion Ratio Lower Upper
98 100
100 66.7 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 34.595 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Tgt Ion: 43 Resp: 83526
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#





#53

t-1,3-Dichloropropene

Concen: 0.231 ug/l

RT: 8.958 min Scan# 11

Delta R.T. -0.018 min

Lab File: VX037370.D

Acq: 30 Aug 2023 05:10

Instrument :

MSVOA_X

ClientSampleId :

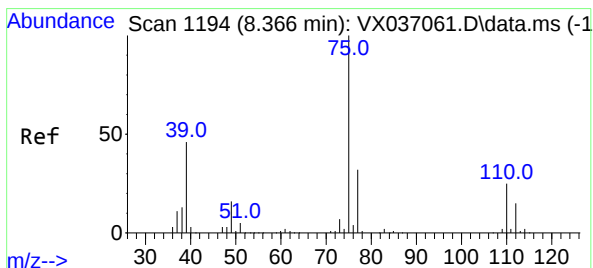
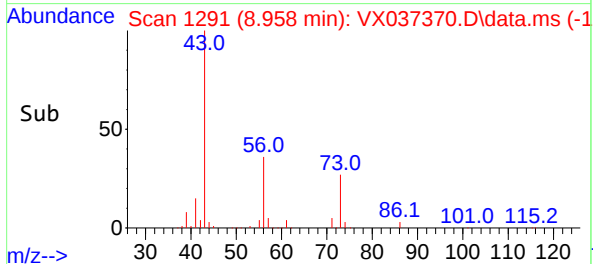
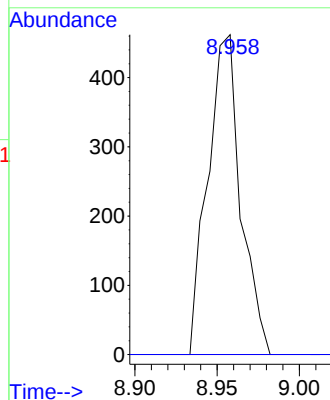
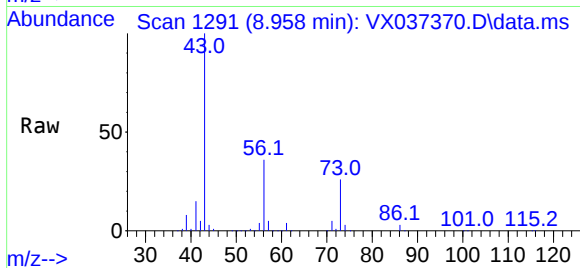
OR-309-OK-370-VOC-24

Tgt Ion: 75 Resp: 643

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#



#54

cis-1,3-Dichloropropene

Concen: 12.395 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX037370.D

Acq: 30 Aug 2023 05:10

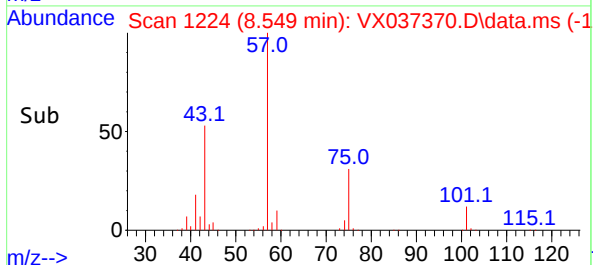
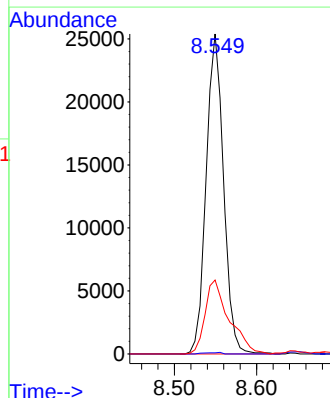
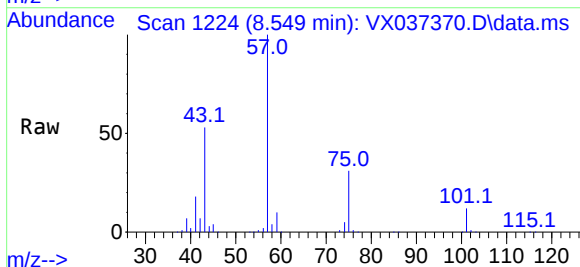
Tgt Ion: 75 Resp: 37311

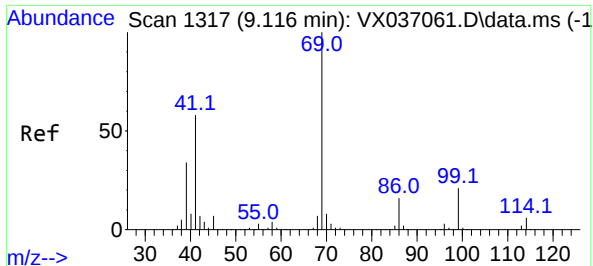
Ion Ratio Lower Upper

75 100

77 0.3 25.3 37.9#

39 23.1 46.7 70.1#





#56

Ethyl methacrylate

Concen: 0.249 ug/l

RT: 9.244 min Scan# 11

Delta R.T. 0.128 min

Lab File: VX037370.D

Acq: 30 Aug 2023 05:10

Instrument :

MSVOA_X

ClientSampleId :

OR-309-OK-370-VOC-24

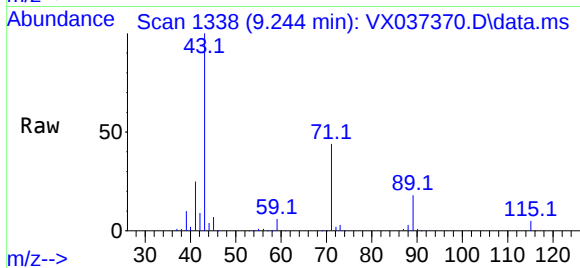
Tgt Ion: 69 Resp: 737

Ion Ratio Lower Upper

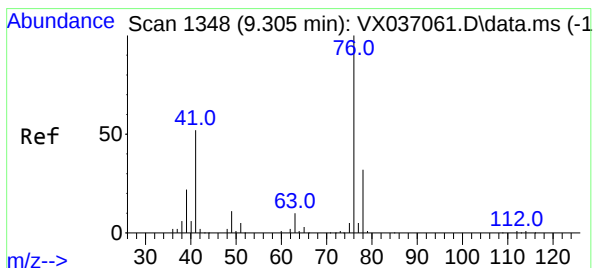
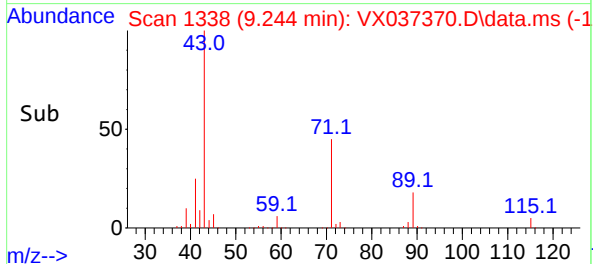
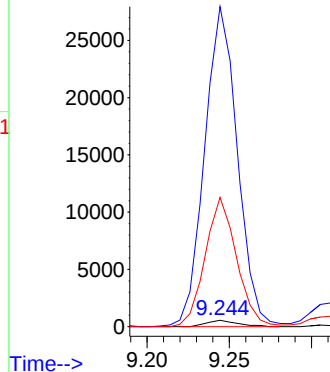
69 100

41 5279.0 56.8 85.2#

39 2036.5 32.0 48.0#



Abundance



#57

1,3-Dichloropropane

Concen: 1.491 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX037370.D

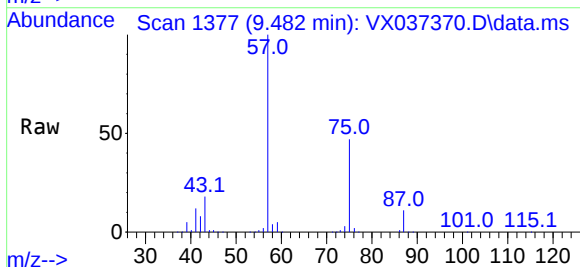
Acq: 30 Aug 2023 05:10

Tgt Ion: 76 Resp: 4756

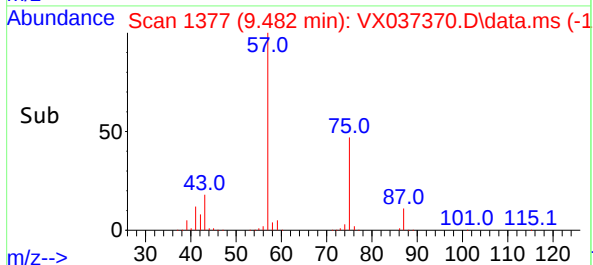
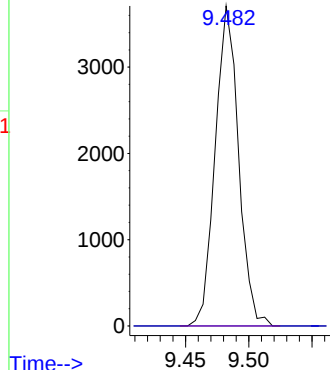
Ion Ratio Lower Upper

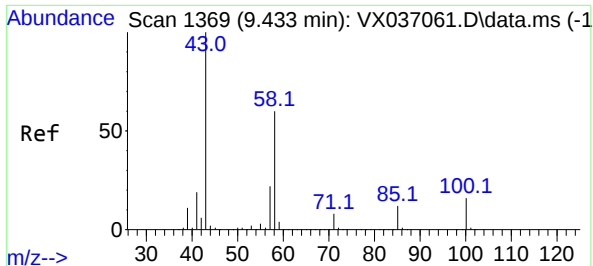
76 100

78 0.0 26.1 39.1#



Abundance

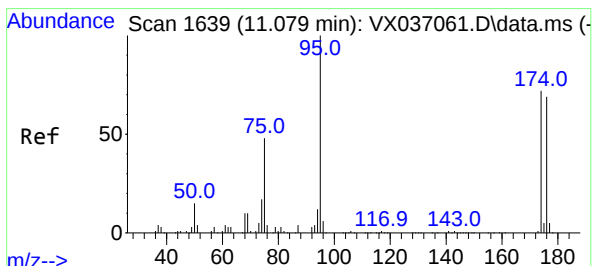
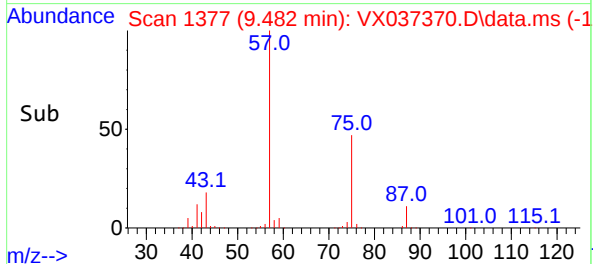
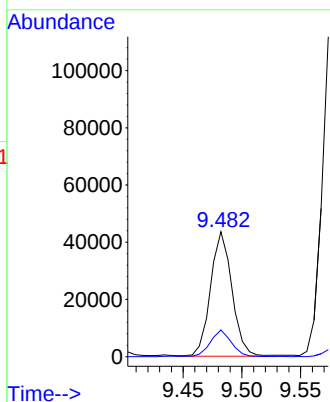
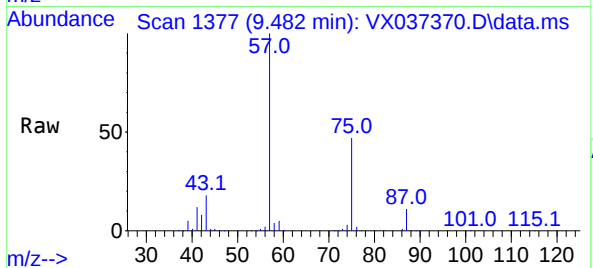




#59
2-Hexanone
Concen: 30.086 ug/l
RT: 9.482 min Scan# 11
Delta R.T. 0.049 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

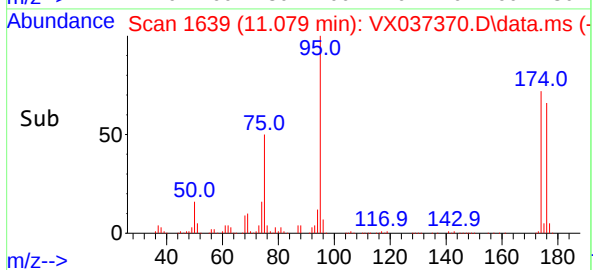
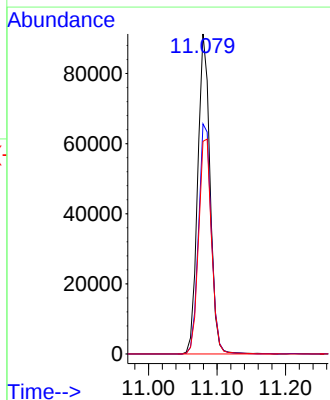
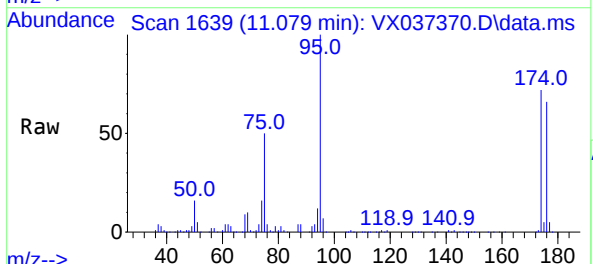
Instrument :
MSVOA_X
ClientSampleId :
OR-309-OK-370-VOC-24

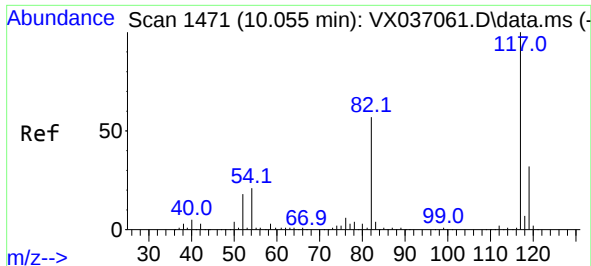
Tgt Ion: 43 Resp: 55386
Ion Ratio Lower Upper
43 100
58 20.6 26.2 78.5#



#62
4-Bromofluorobenzene
Concen: 46.491 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Tgt Ion: 95 Resp: 114367
Ion Ratio Lower Upper
95 100
174 74.4 0.0 135.6
176 70.5 0.0 131.0

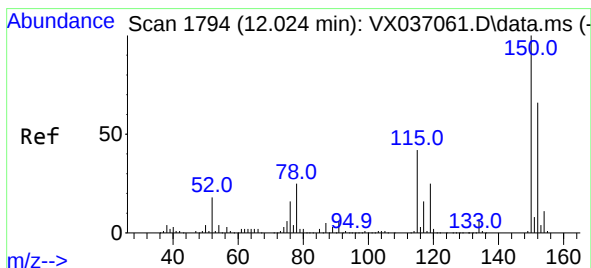
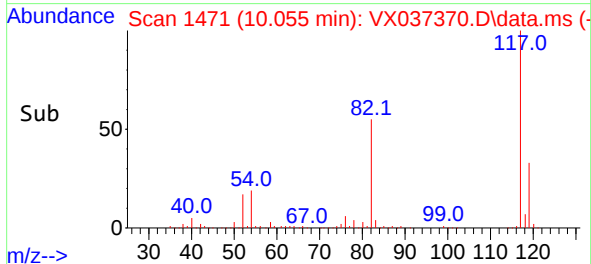
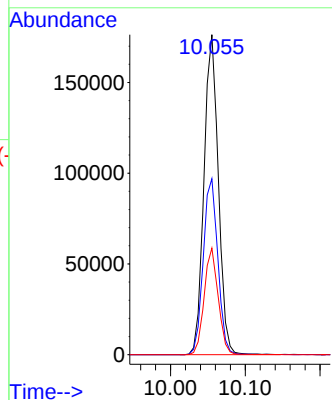
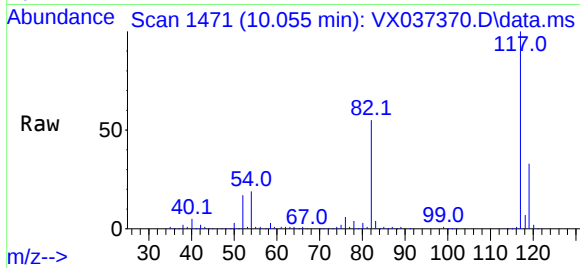




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

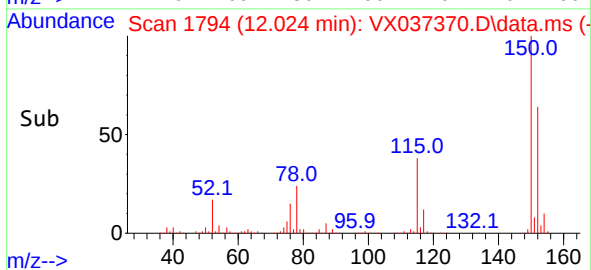
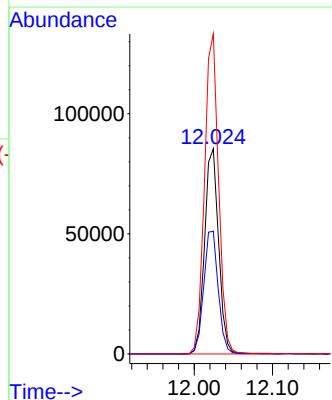
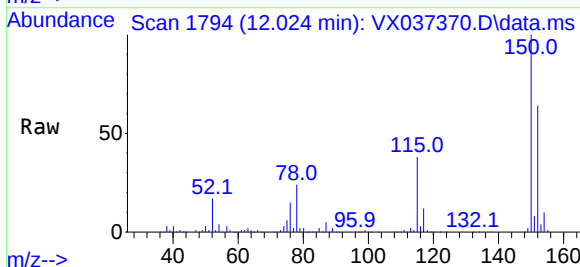
Instrument :
MSVOA_X
ClientSampleId :
OR-309-OK-370-VOC-24

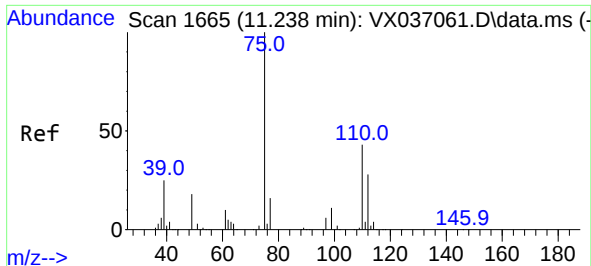
Tgt Ion:117 Resp: 235302
Ion Ratio Lower Upper
117 100
82 55.0 46.2 69.4
119 33.3 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Tgt Ion:152 Resp: 106260
Ion Ratio Lower Upper
152 100
115 61.9 43.3 129.9
150 156.7 0.0 345.0

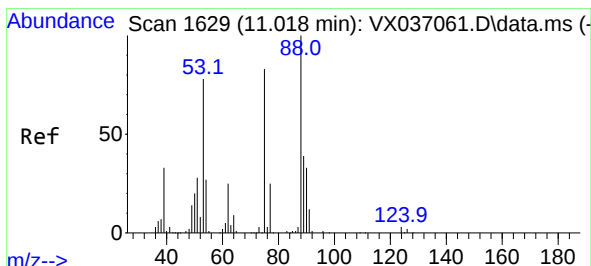
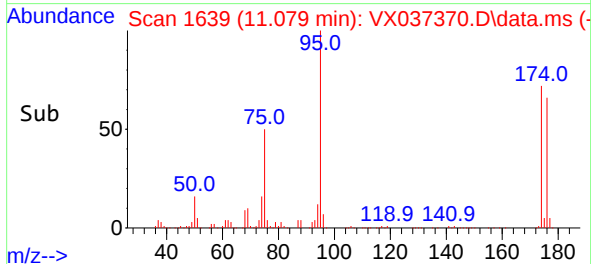
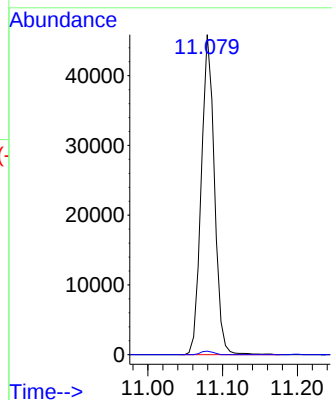
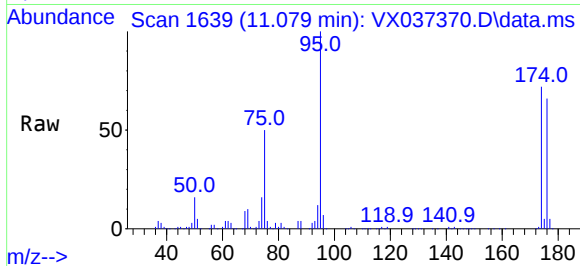




#76
1,2,3-Trichloropropane
Concen: 24.809 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Instrument :
MSVOA_X
ClientSampleId :
OR-309-OK-370-VOC-24

Tgt Ion: 75 Resp: 56142
Ion Ratio Lower Upper
75 100
77 1.1 19.1 57.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 69.292 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX037370.D
Acq: 30 Aug 2023 05:10

Tgt Ion: 75 Resp: 56142
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#

