

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030623\
 Data File : VX034350.D
 Acq On : 06 Mar 2023 15:24
 Operator : JC/MD
 Sample : 01816-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 31957

Quant Time: Mar 07 00:39:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021723W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 17 12:33:35 2023
 Response via : Initial Calibration

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

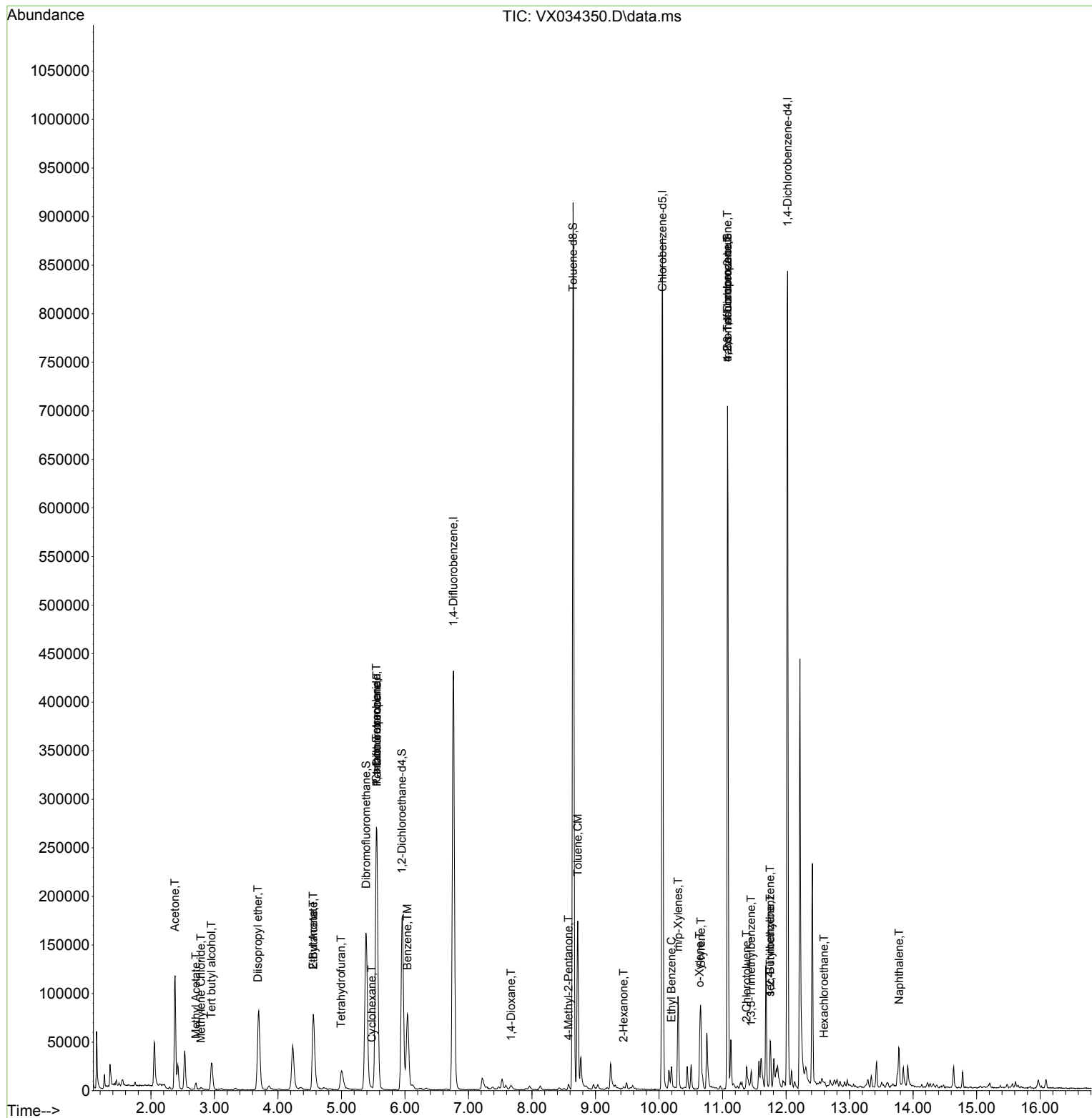
Internal Standards						
1) Pentafluorobenzene	5.556	168	268705	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	449595	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	401161	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	179066	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	167404	46.259	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	92.520%		
35) Dibromofluoromethane	5.385	113	142879	48.809	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.620%		
50) Toluene-d8	8.647	98	540633	51.440	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	102.880%		
62) 4-Bromofluorobenzene	11.079	95	187814	46.718	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.440%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.587	94	120	Below Cal	#	3
11) Tert butyl alcohol	2.953	59	31034	38.342	ug/l #	82
16) Acetone	2.380	43	123730	66.280	ug/l	93
18) Methyl Acetate	2.709	43	8204	1.420	ug/l	99
20) Methylene Chloride	2.788	84	796	0.237	ug/l #	80
22) Diisopropyl ether	3.684	45	2870	0.266	ug/l #	1
25) 2-Butanone	4.556	43	141880	52.528	ug/l	99
29) Tetrahydrofuran	4.995	42	1051	0.638	ug/l #	61
31) Cyclohexane	5.477	56	1089	0.202	ug/l	97
36) 1,1-Dichloropropene	5.556	75	20440	4.721	ug/l #	49
37) Ethyl Acetate	4.556	43	141880	29.324	ug/l #	68
38) Carbon Tetrachloride	5.550	117	25940	5.823	ug/l #	14
40) Benzene	6.037	78	93813	7.312	ug/l	98
49) 1,4-Dioxane	7.671	88	2461	30.447	ug/l #	99
51) 4-Methyl-2-Pentanone	8.574	43	3254	0.693	ug/l	98
52) Toluene	8.720	92	64924	8.352	ug/l	98
59) 2-Hexanone	9.439	43	1866	0.521	ug/l	88
67) Ethyl Benzene	10.195	91	12398	0.825	ug/l	95
68) m/p-Xylenes	10.299	106	22785	3.963	ug/l	97
69) o-Xylene	10.640	106	10619	1.855	ug/l	96
70) Styrene	10.659	104	29092	3.125	ug/l	97
76) 1,2,3-Trichloropropane	11.079	75	95242	21.138	ug/l #	34
79) 2-Chlorotoluene	11.378	91	2396	0.246	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.451	105	6837	0.596	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.079	75	95242	54.301	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.750	105	21496	1.853	ug/l	98
85) sec-Butylbenzene	11.750	105	21496	1.506	ug/l #	54
90) Hexachloroethane	12.597	117	567	0.230	ug/l #	4
95) Naphthalene	13.780	128	23920	1.835	ug/l	99

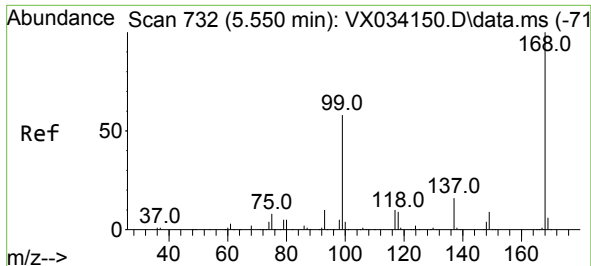
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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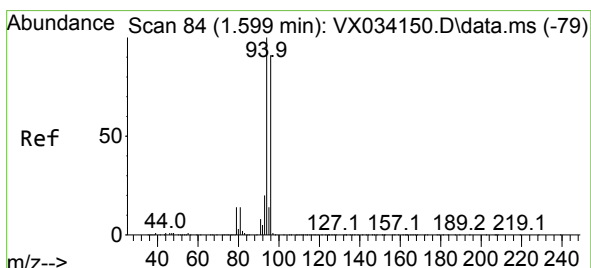
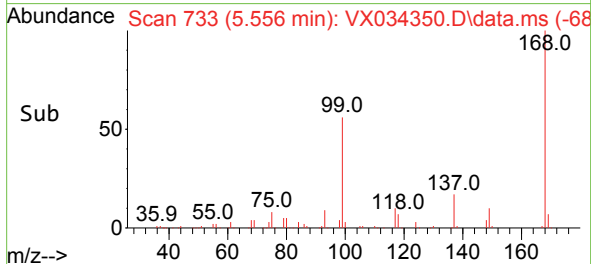
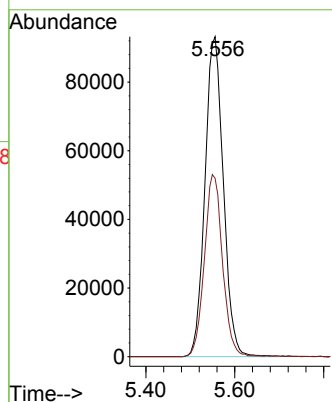
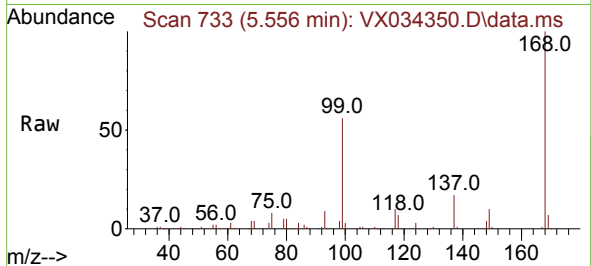




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

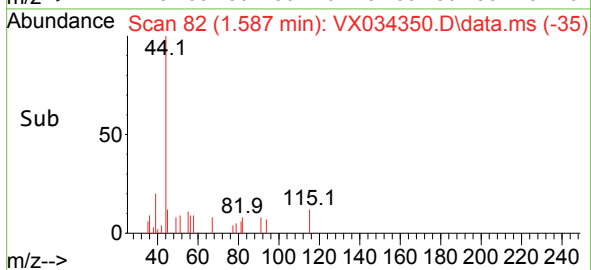
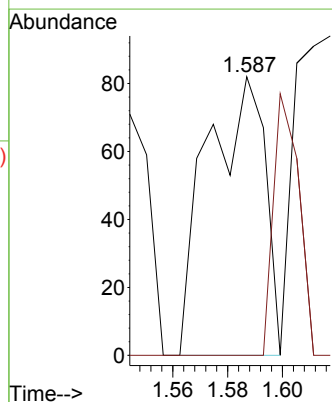
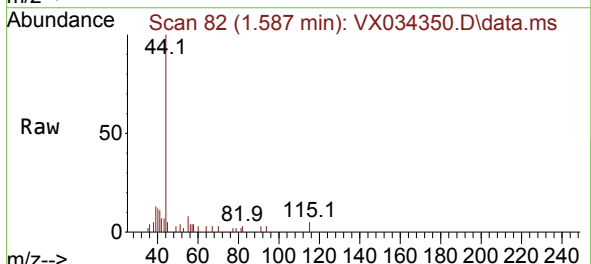
Instrument :
MSVOA_X
ClientSampleId :
31957

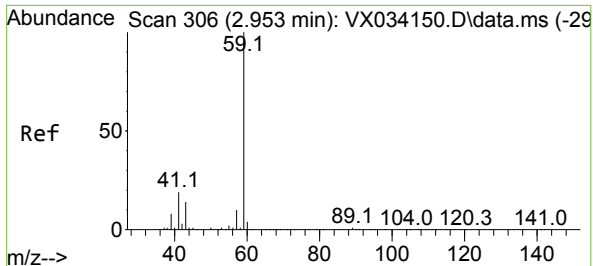
Tgt Ion:168 Resp: 268705
Ion Ratio Lower Upper
168 100
99 55.7 39.6 59.4



#5
Bromomethane
Concen: Below Cal
RT: 1.587 min Scan# 82
Delta R.T. -0.012 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

Tgt Ion: 94 Resp: 120
Ion Ratio Lower Upper
94 100
96 0.0 74.3 111.5#





#11

Tert butyl alcohol

Concen: 38.342 ug/l

RT: 2.953 min Scan# 306

Delta R.T. 0.000 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

Instrument :

MSVOA_X

ClientSampleId :

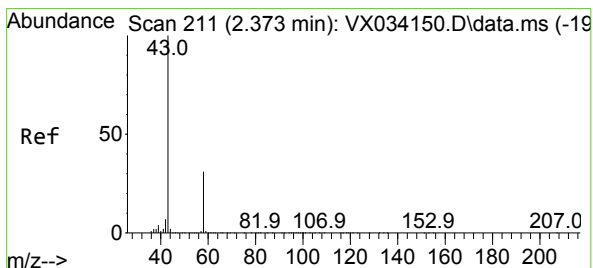
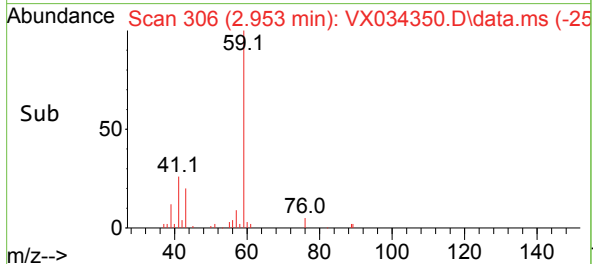
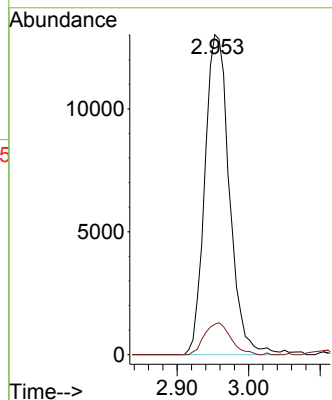
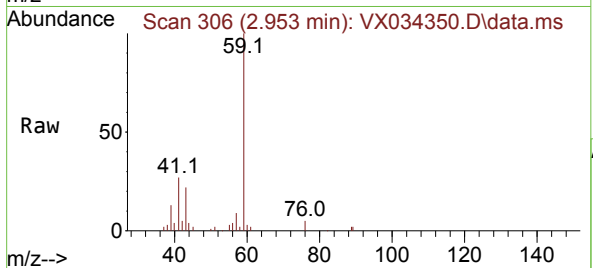
31957

Tgt Ion: 59 Resp: 31034

Ion Ratio Lower Upper

59 100

57 10.6 3.7 5.5#



#16

Acetone

Concen: 66.280 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX034350.D

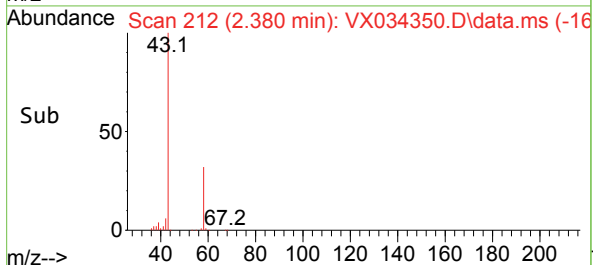
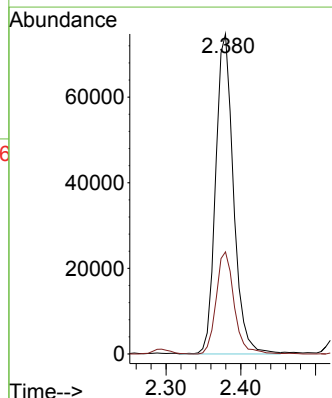
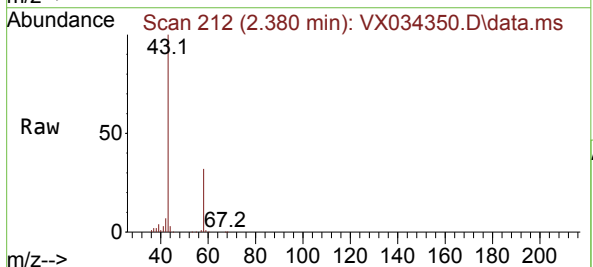
Acq: 06 Mar 2023 15:24

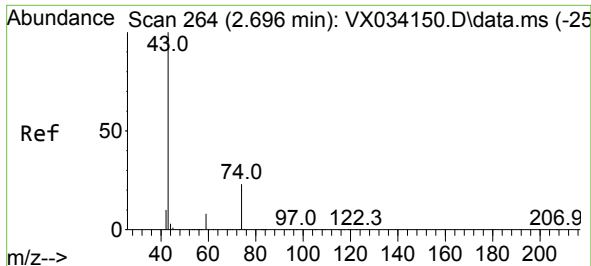
Tgt Ion: 43 Resp: 123730

Ion Ratio Lower Upper

43 100

58 31.8 22.6 33.8

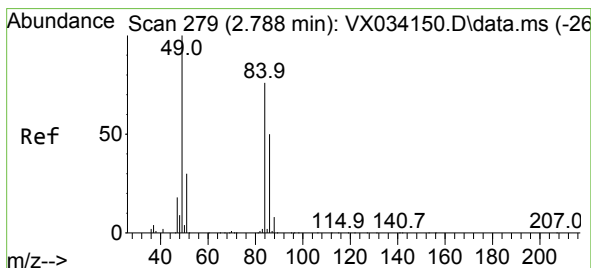
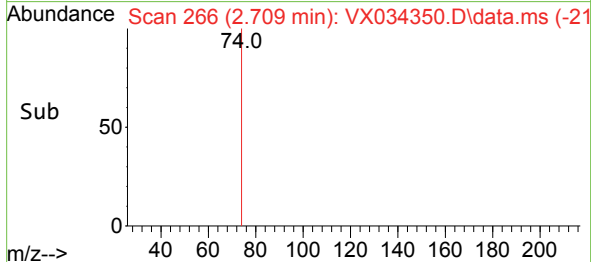
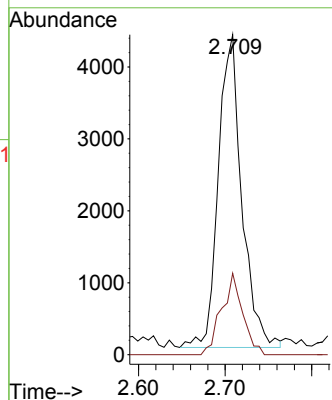
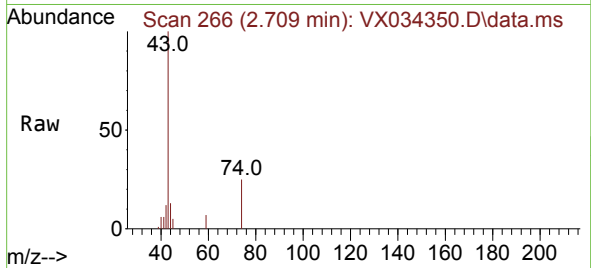




#18
Methyl Acetate
Concen: 1.420 ug/l
RT: 2.709 min Scan# 20
Delta R.T. 0.012 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

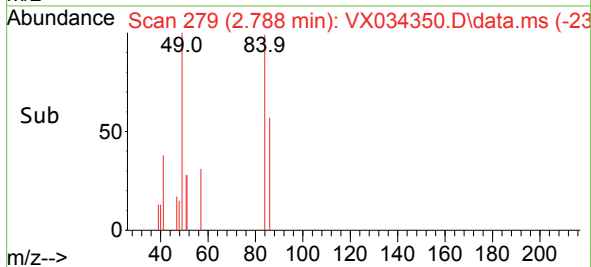
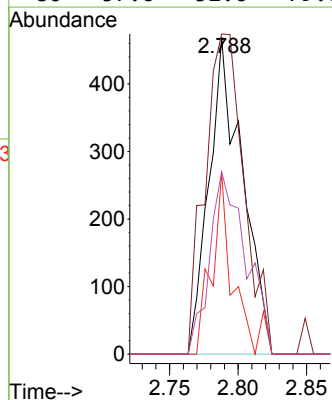
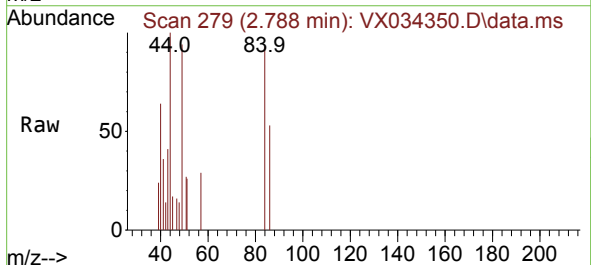
Instrument :
MSVOA_X
ClientSampleId :
31957

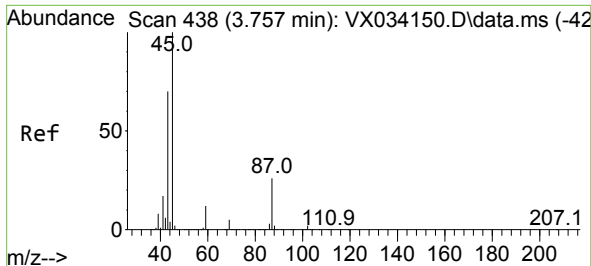
Tgt Ion: 43 Resp: 8204
Ion Ratio Lower Upper
43 100
74 23.3 18.2 27.4



#20
Methylene Chloride
Concen: 0.237 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

Tgt Ion: 84 Resp: 796
Ion Ratio Lower Upper
84 100
49 101.1 101.1 151.7#
51 57.4 31.0 46.6#
86 57.6 52.6 79.0

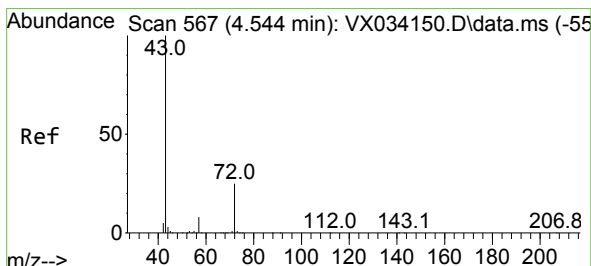
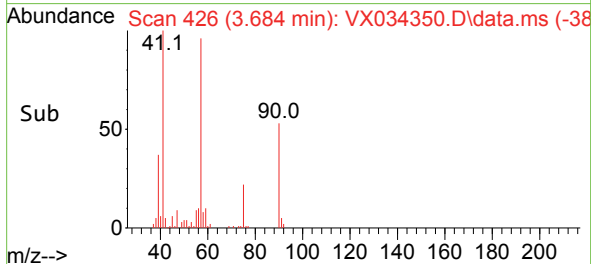
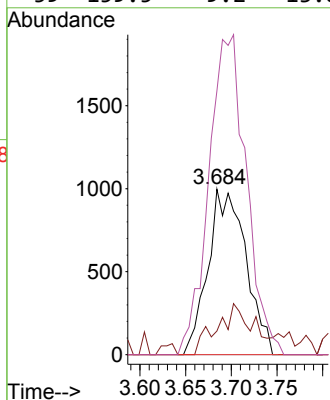
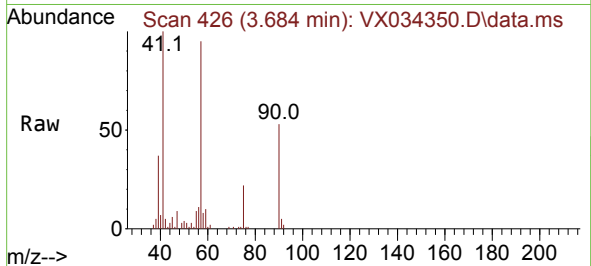




#22
Diisopropyl ether
Concen: 0.266 ug/l
RT: 3.684 min Scan# 41
Delta R.T. -0.073 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

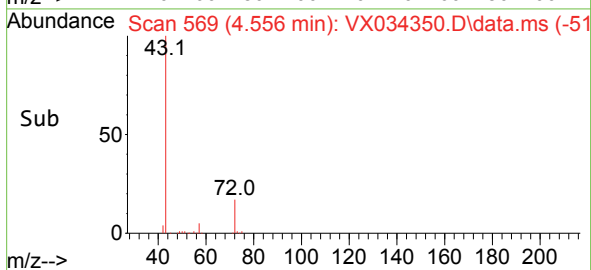
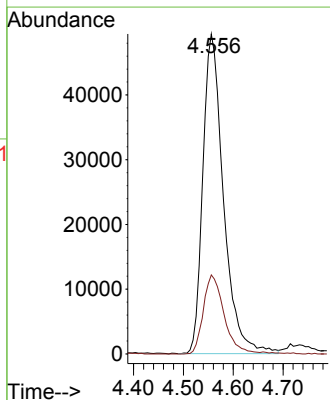
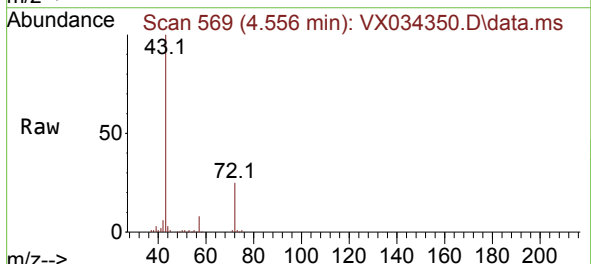
Instrument :
MSVOA_X
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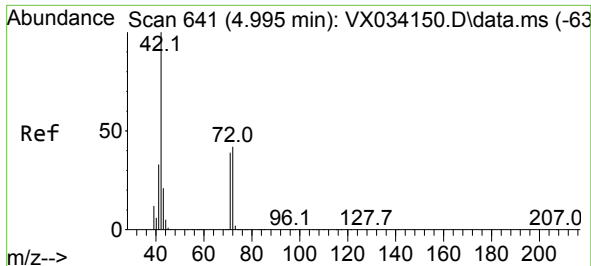
Tgt Ion: 45	Resp: 2870
Ion Ratio	Lower Upper
45 100	
43 14.3	64.6 97.0#
87 0.0	21.9 32.9#
59 159.5	9.2 13.8#



#25
2-Butanone
Concen: 52.528 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.012 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

Tgt Ion: 43	Resp: 141880
Ion Ratio	Lower Upper
43 100	
72 24.7	19.4 29.2





#29

Tetrahydrofuran

Concen: 0.638 ug/l

RT: 4.995 min Scan# 641

Delta R.T. 0.000 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

Instrument :

MSVOA_X

ClientSampleId :

31957

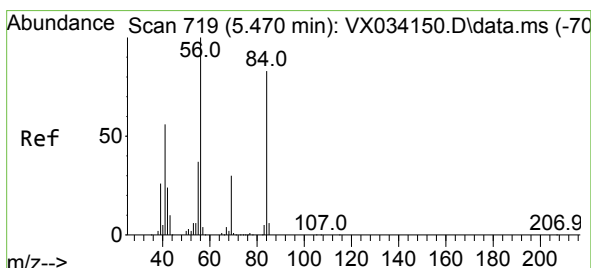
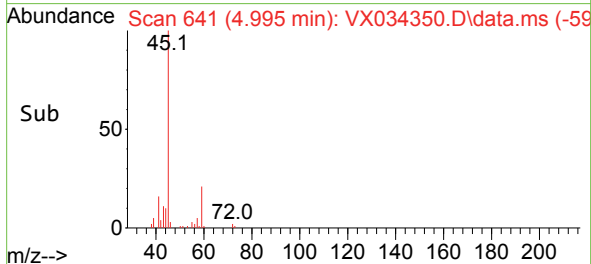
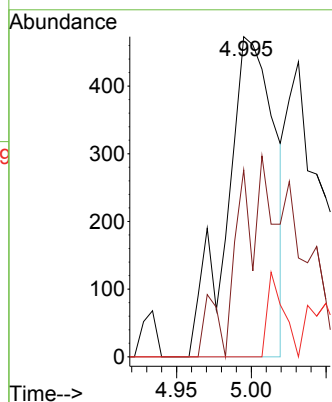
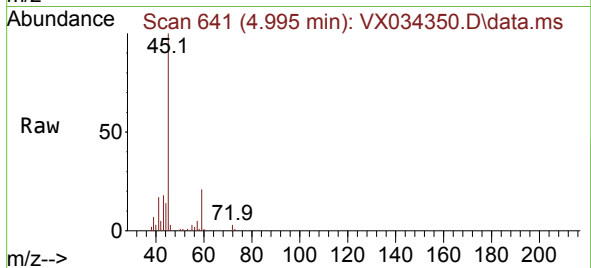
Tgt Ion: 42 Resp: 1051

Ion Ratio Lower Upper

42 100

72 25.7 34.8 52.2#

71 8.8 32.2 48.2#



#31

Cyclohexane

Concen: 0.202 ug/l

RT: 5.477 min Scan# 720

Delta R.T. 0.006 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

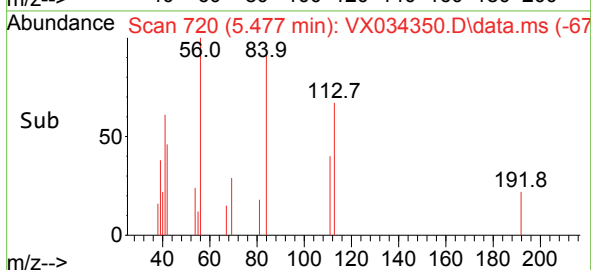
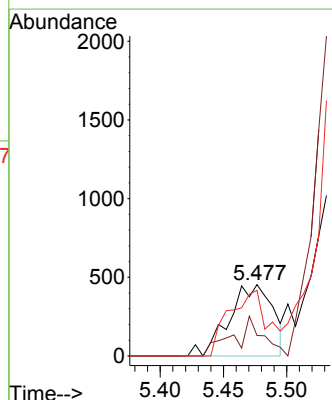
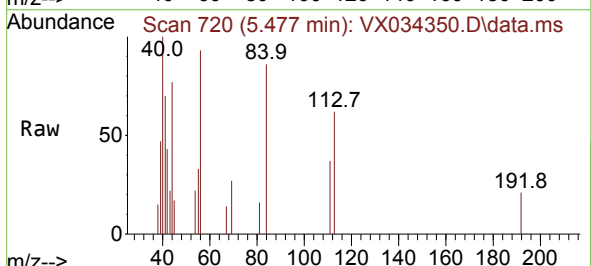
Tgt Ion: 56 Resp: 1089

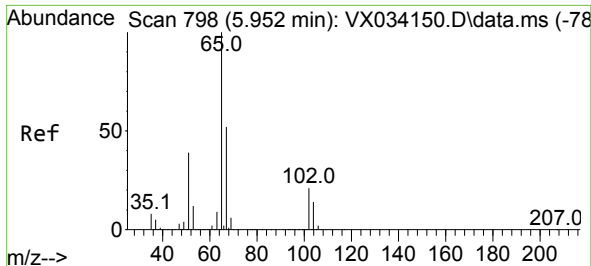
Ion Ratio Lower Upper

56 100

69 28.6 24.6 37.0

84 91.9 71.0 106.6

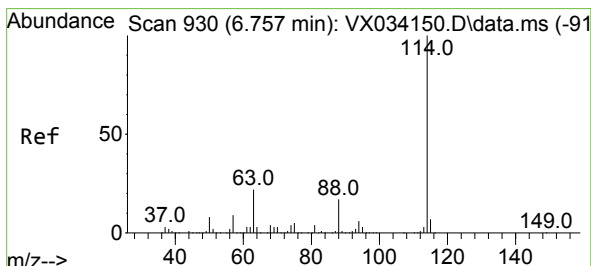
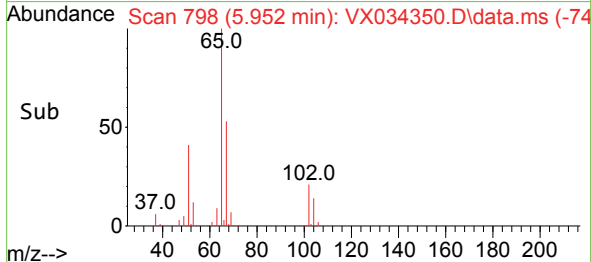
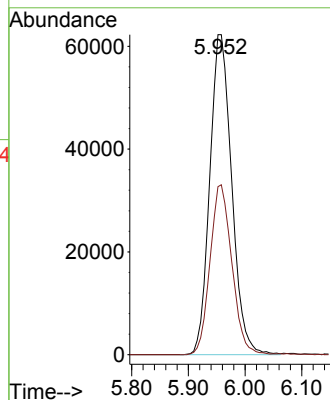
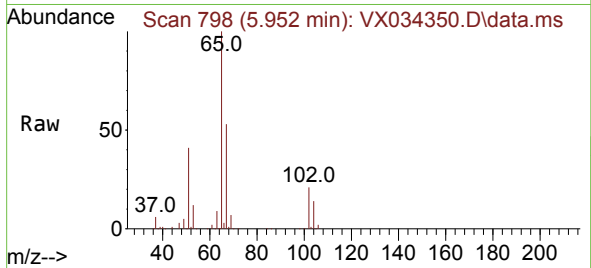




#33
1,2-Dichloroethane-d4
Concen: 46.259 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

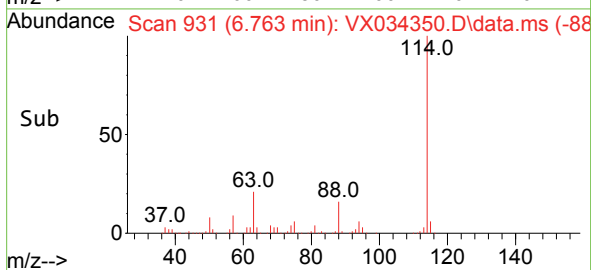
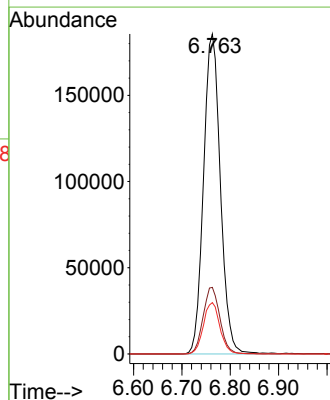
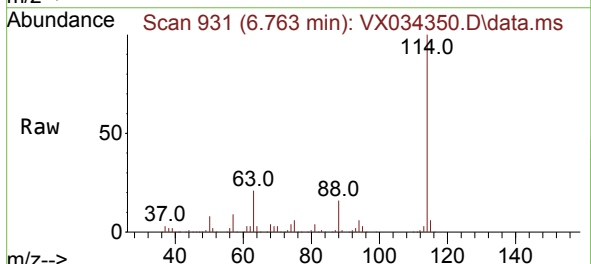
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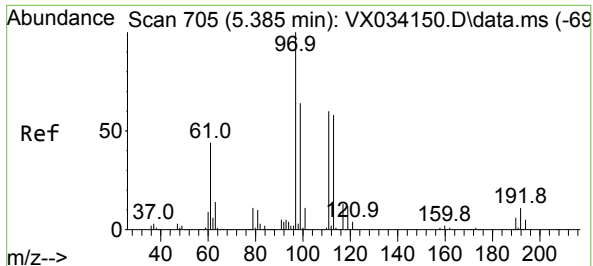
Tgt Ion: 65 Resp: 167404
Ion Ratio Lower Upper
65 100
67 52.8 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.006 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

Tgt Ion: 114 Resp: 449595
Ion Ratio Lower Upper
114 100
63 20.8 0.0 37.4
88 16.1 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.809 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX034350.D

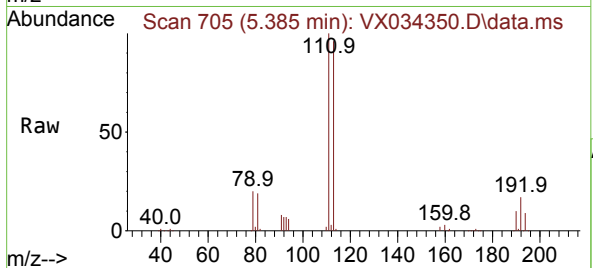
Acq: 06 Mar 2023 15:24

Instrument :

MSVOA_X

ClientSampleId :

31957



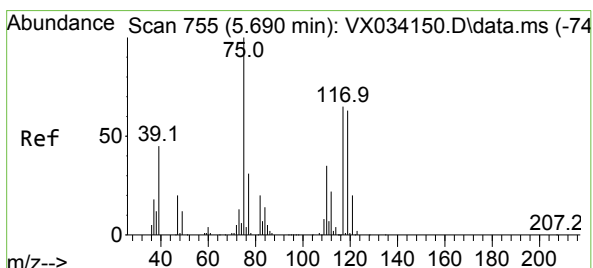
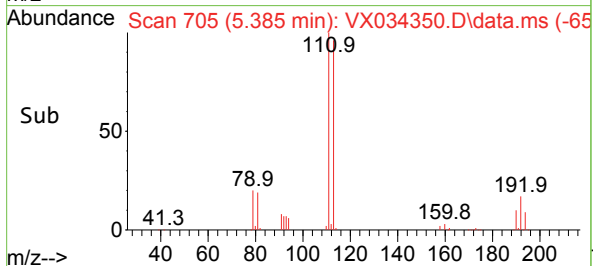
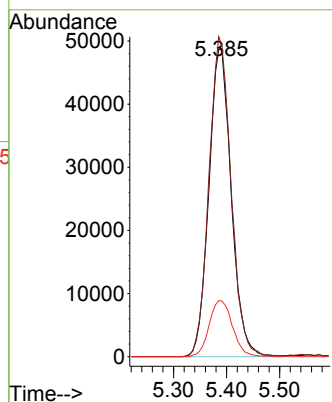
Tgt Ion:113 Resp: 142879

Ion Ratio Lower Upper

113 100

111 102.9 83.0 124.6

192 19.0 19.0 28.4



#36

1,1-Dichloropropene

Concen: 4.721 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.134 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

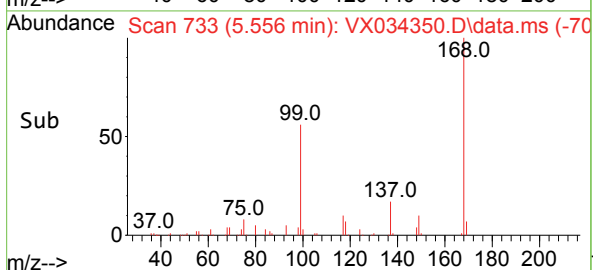
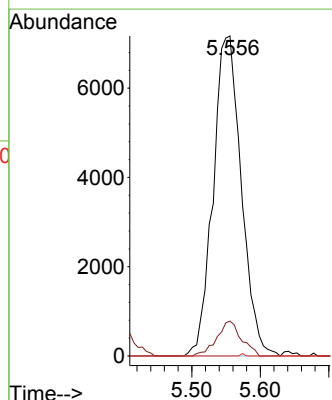
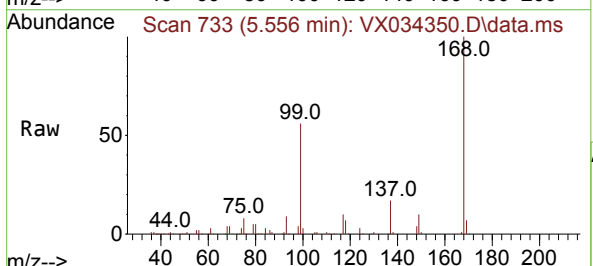
Tgt Ion: 75 Resp: 20440

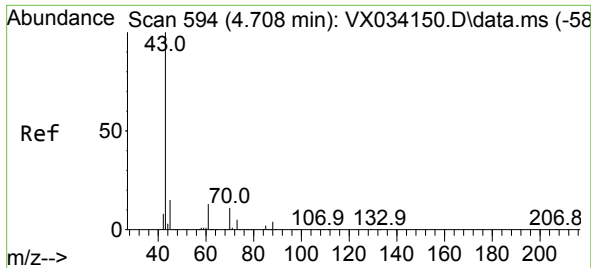
Ion Ratio Lower Upper

75 100

110 9.5 18.8 56.4#

77 0.1 25.1 37.7#

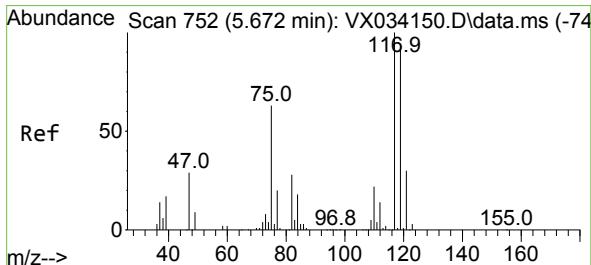
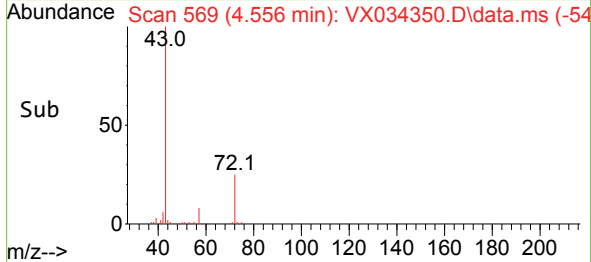
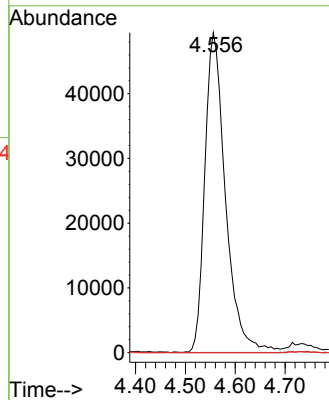
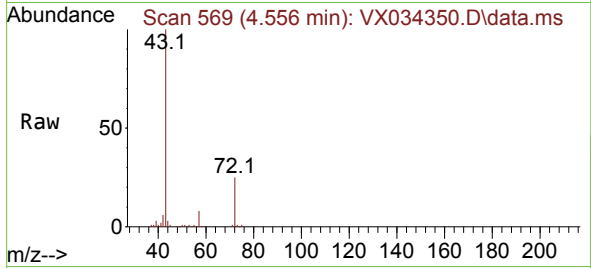




#37
Ethyl Acetate
Concen: 29.324 ug/l
RT: 4.556 min Scan# 519
Delta R.T. -0.152 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

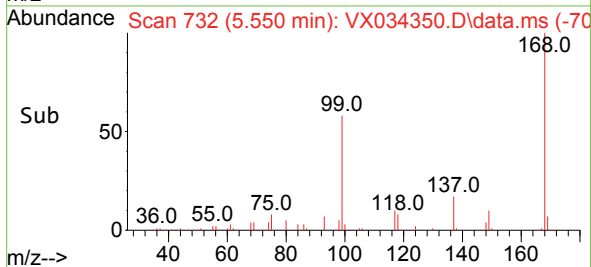
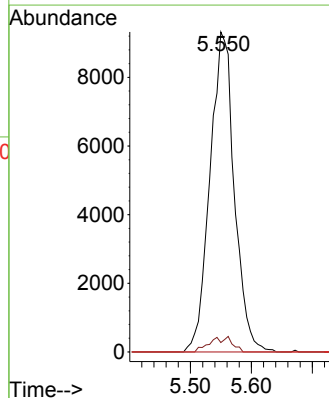
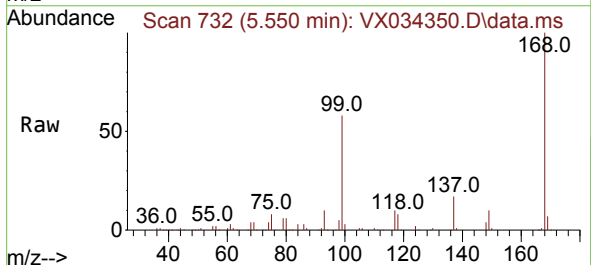
Instrument :
MSVOA_X
ClientSampleId :
31957

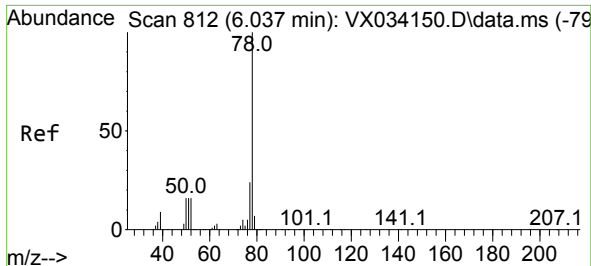
Tgt Ion: 43 Resp: 141880
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 5.823 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.122 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

Tgt Ion: 117 Resp: 25940
Ion Ratio Lower Upper
117 100
119 3.0 78.0 117.0#
121 0.0 24.4 36.6#

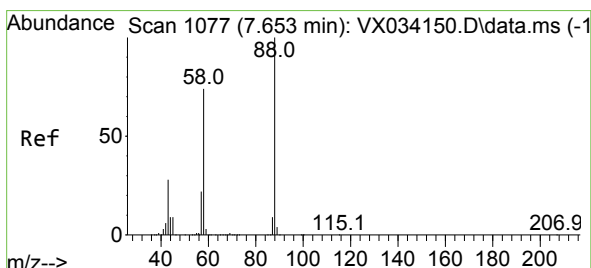
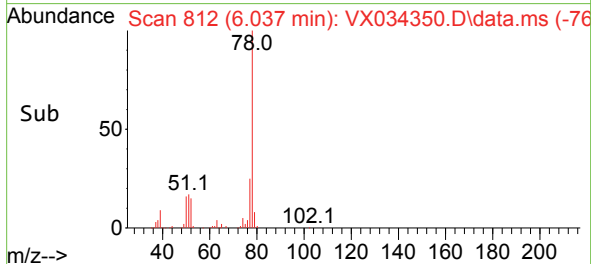
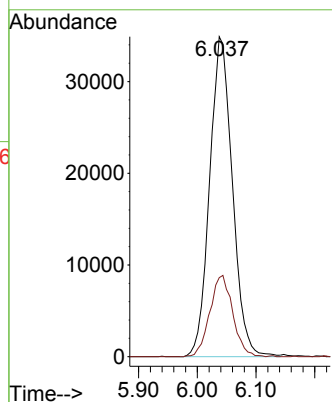
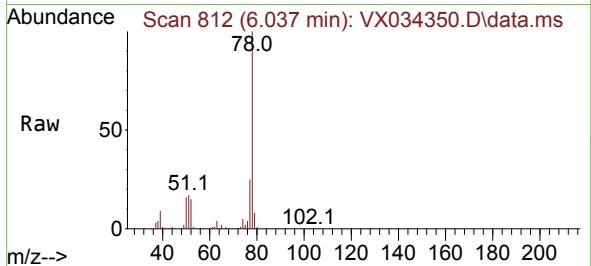




#40
Benzene
Concen: 7.312 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.000 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

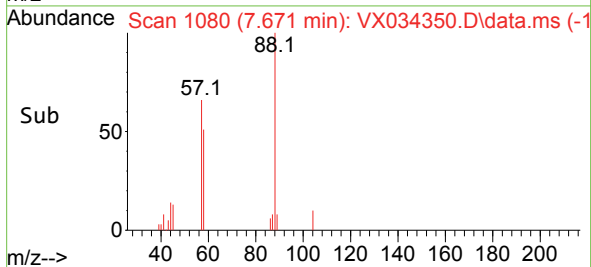
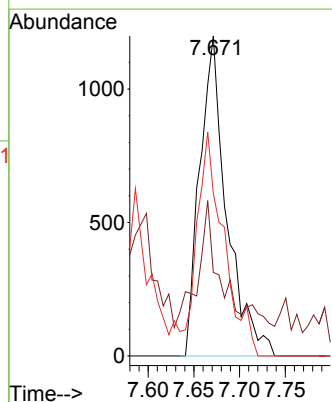
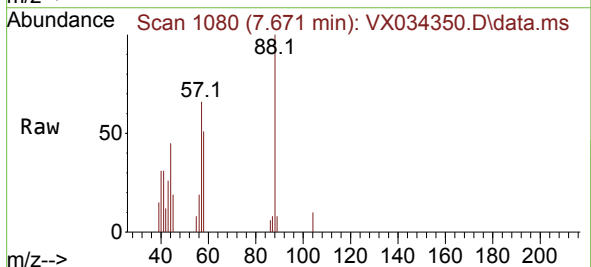
Instrument :
MSVOA_X
ClientSampleId :
31957

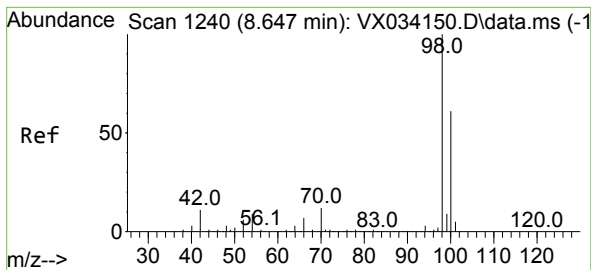
Tgt Ion: 78 Resp: 93813
Ion Ratio Lower Upper
78 100
77 24.7 19.0 28.4



#49
1,4-Dioxane
Concen: 30.447 ug/l
RT: 7.671 min Scan# 1080
Delta R.T. 0.018 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

Tgt Ion: 88 Resp: 2461
Ion Ratio Lower Upper
88 100
43 29.7 0.0 0.0#
58 69.4 56.5 84.7





#50

Toluene-d8

Concen: 51.440 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

Instrument :

MSVOA_X

ClientSampleId :

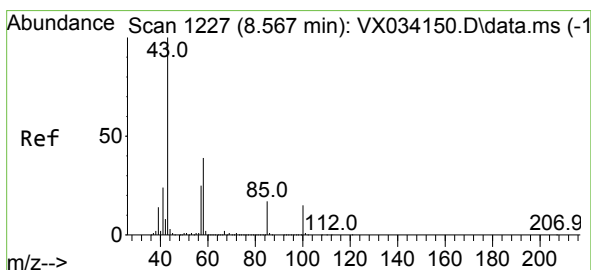
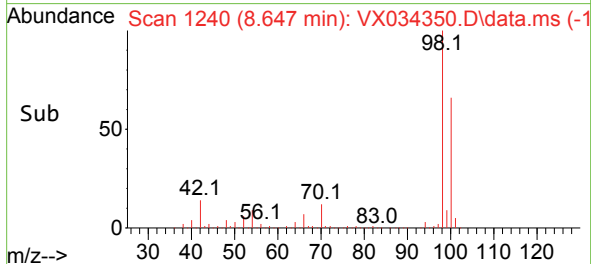
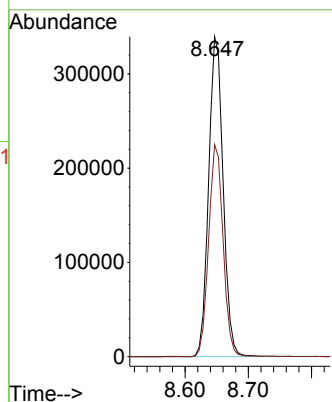
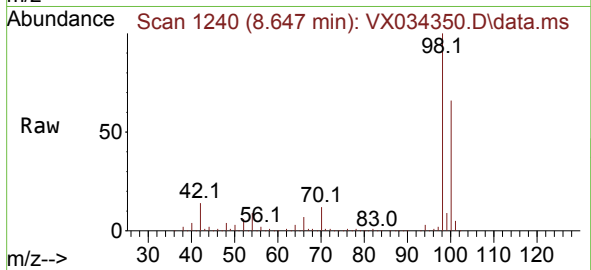
31957

Tgt Ion: 98 Resp: 540633

Ion Ratio Lower Upper

98 100

100 66.1 53.6 80.4



#51

4-Methyl-2-Pentanone

Concen: 0.693 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.006 min

Lab File: VX034350.D

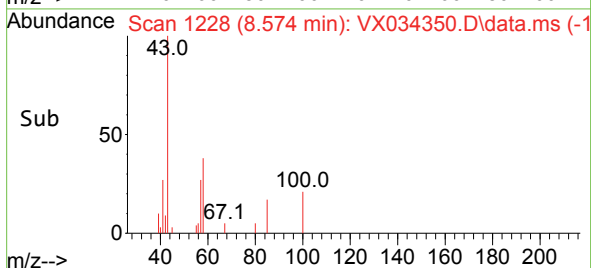
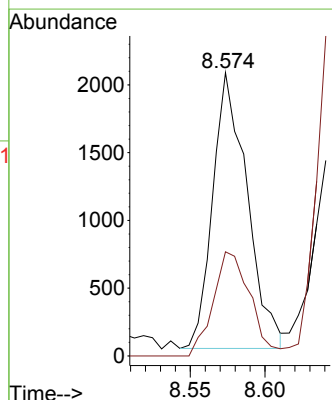
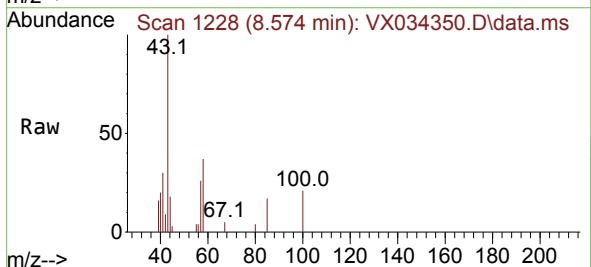
Acq: 06 Mar 2023 15:24

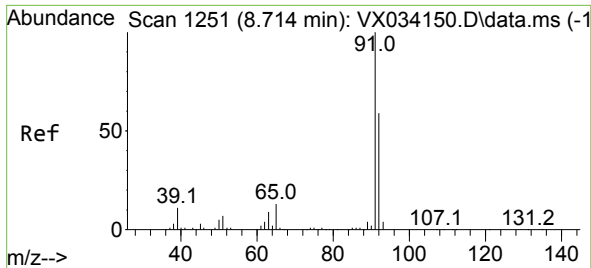
Tgt Ion: 43 Resp: 3254

Ion Ratio Lower Upper

43 100

58 40.4 31.2 46.8

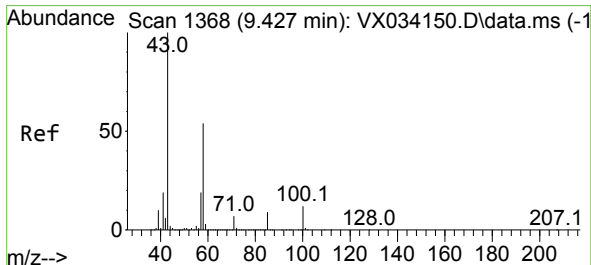
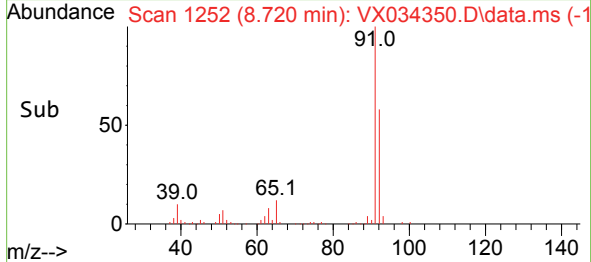
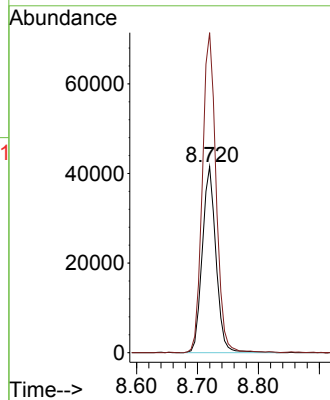
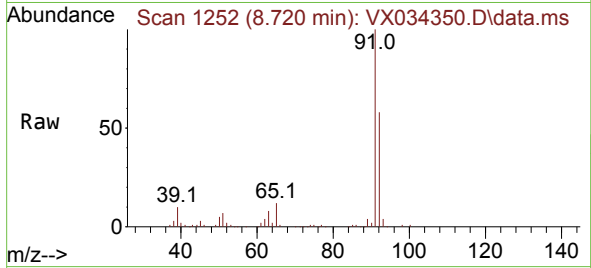




#52
Toluene
Concen: 8.352 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

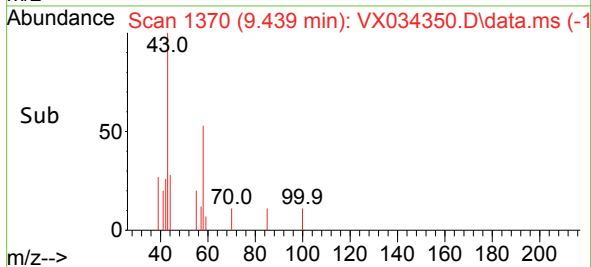
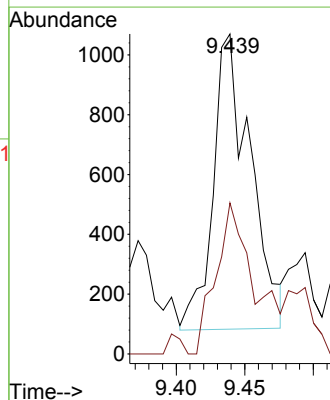
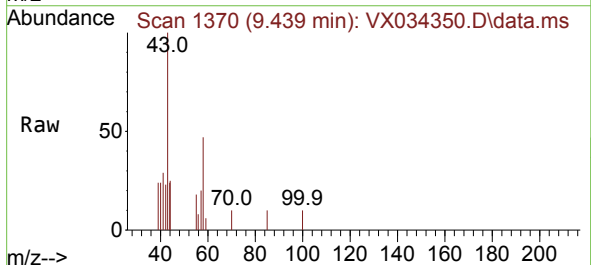
Instrument :
MSVOA_X
ClientSampleId :
31957

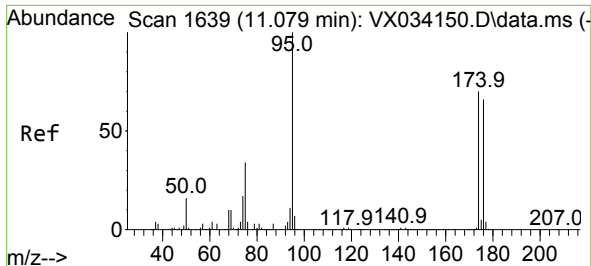
Tgt Ion: 92 Resp: 64924
Ion Ratio Lower Upper
92 100
91 172.5 135.5 203.3



#59
2-Hexanone
Concen: 0.521 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.012 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

Tgt Ion: 43 Resp: 1866
Ion Ratio Lower Upper
43 100
58 45.9 27.4 82.0

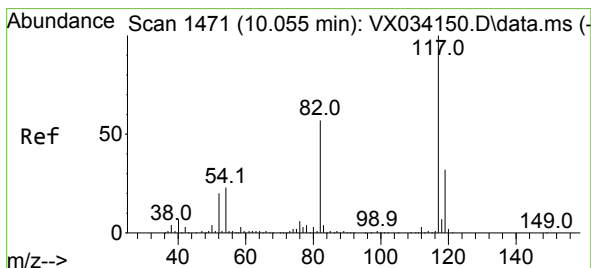
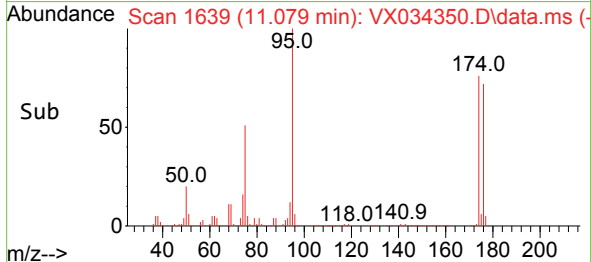
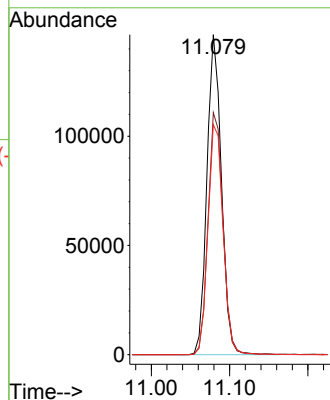
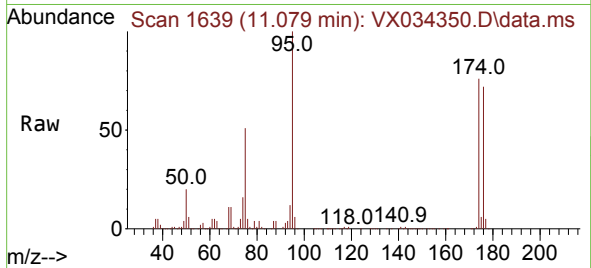




#62
4-Bromofluorobenzene
Concen: 46.718 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

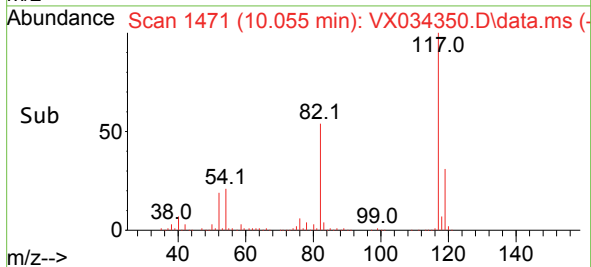
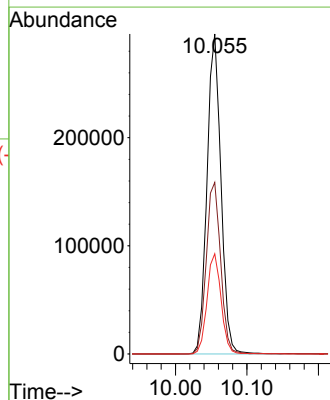
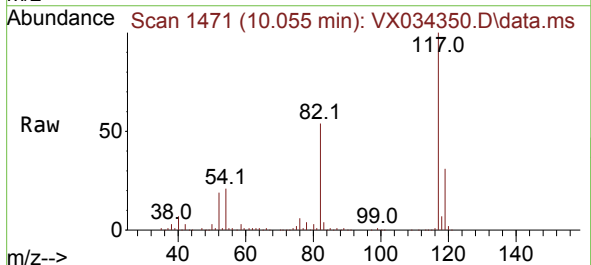
Instrument :
MSVOA_X
ClientSampleId :
31957

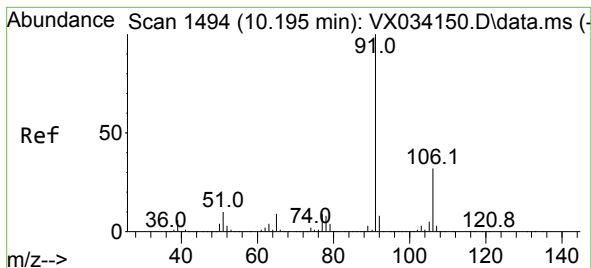
Tgt Ion: 95 Resp: 187814
Ion Ratio Lower Upper
95 100
174 78.1 0.0 184.4
176 75.0 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

Tgt Ion: 117 Resp: 401161
Ion Ratio Lower Upper
117 100
82 53.6 40.6 60.8
119 31.3 25.6 38.4

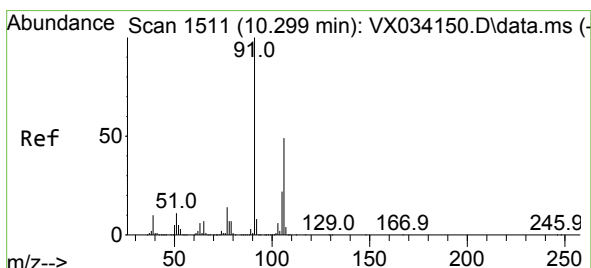
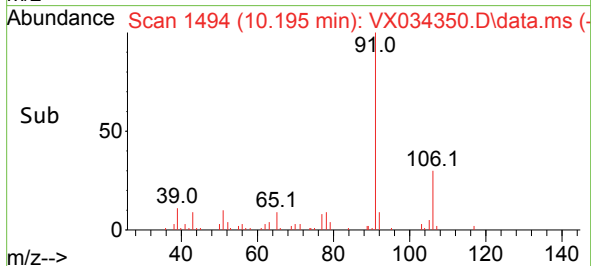
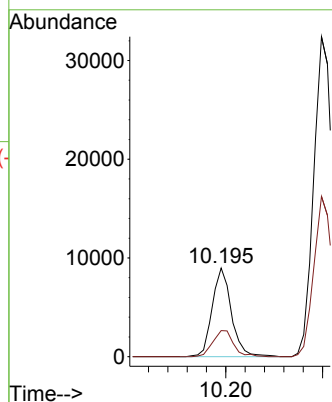
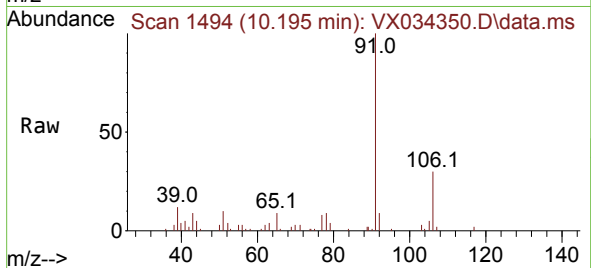




#67
Ethyl Benzene
Concen: 0.825 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

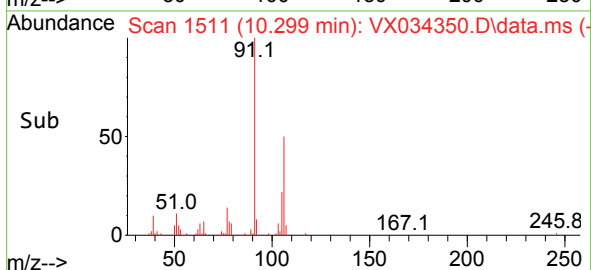
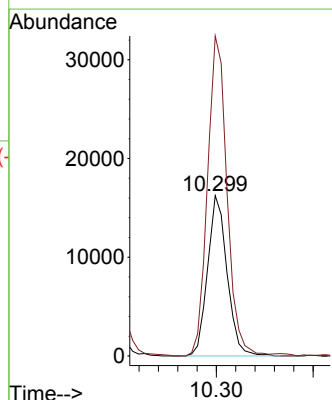
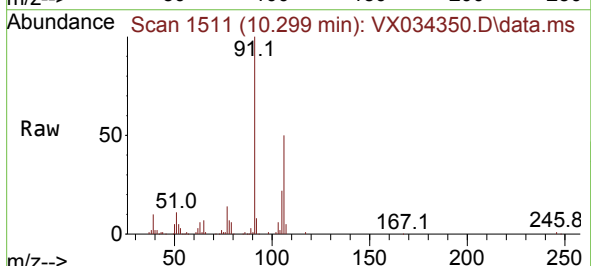
Instrument :
MSVOA_X
ClientSampleId :
31957

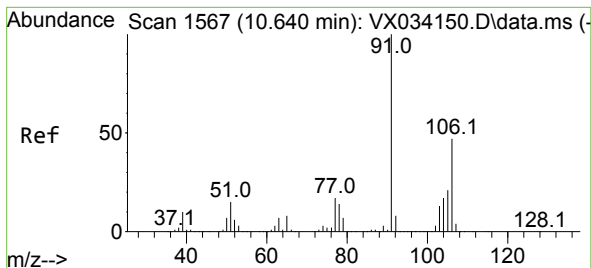
Tgt Ion: 91 Resp: 12398
Ion Ratio Lower Upper
91 100
106 29.5 25.8 38.8



#68
m/p-Xylenes
Concen: 3.963 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

Tgt Ion: 106 Resp: 22785
Ion Ratio Lower Upper
106 100
91 199.8 156.4 234.6





#69

o-Xylene

Concen: 1.855 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

Instrument :

MSVOA_X

ClientSampleId :

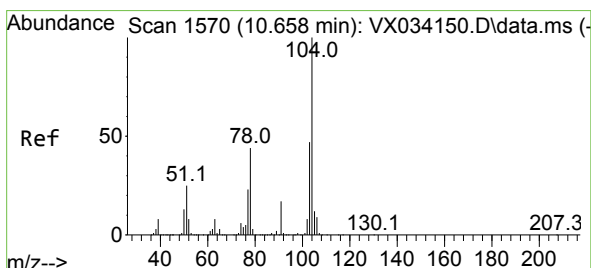
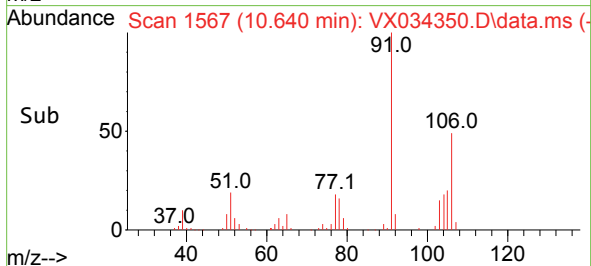
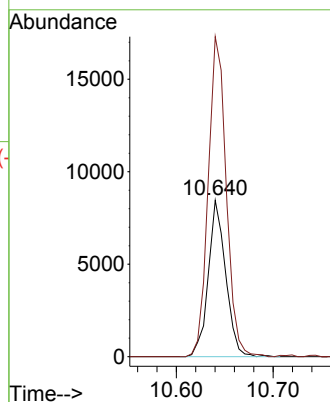
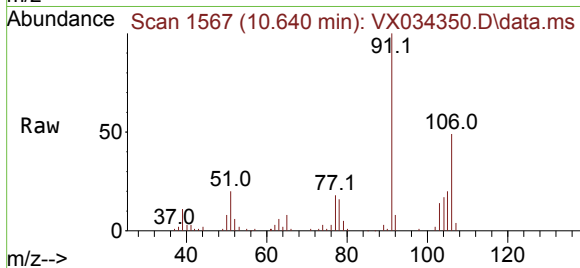
31957

Tgt Ion:106 Resp: 10619

Ion Ratio Lower Upper

106 100

91 212.0 103.1 309.3



#70

Styrene

Concen: 3.125 ug/l

RT: 10.659 min Scan# 1570

Delta R.T. 0.000 min

Lab File: VX034350.D

Acq: 06 Mar 2023 15:24

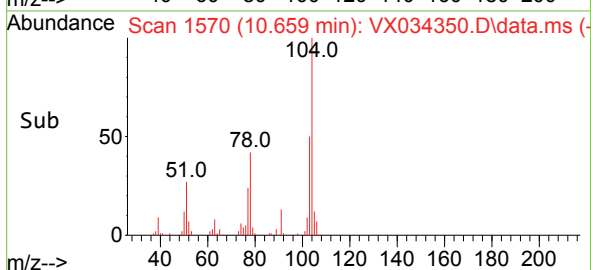
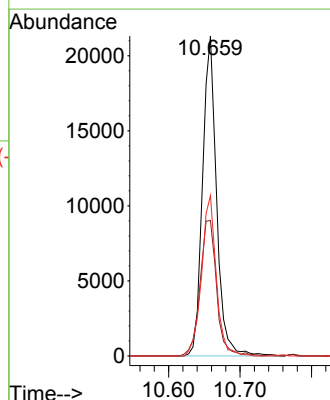
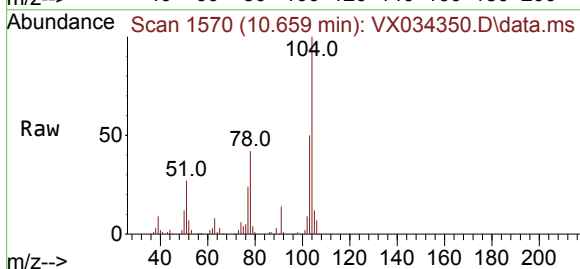
Tgt Ion:104 Resp: 29092

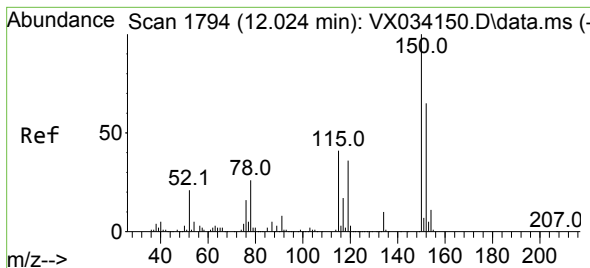
Ion Ratio Lower Upper

104 100

78 49.8 37.5 56.3

103 52.4 43.3 64.9

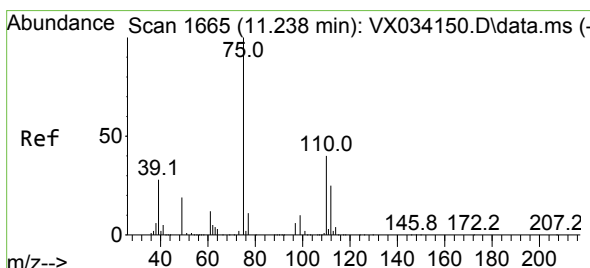
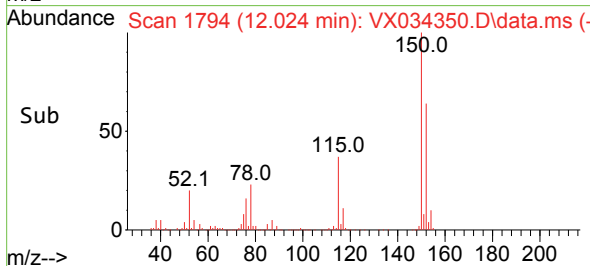
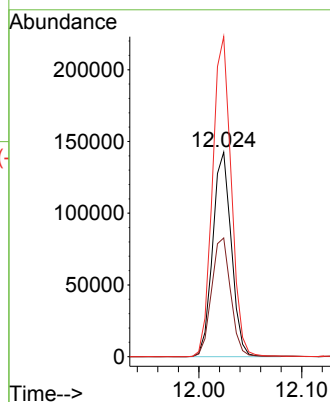
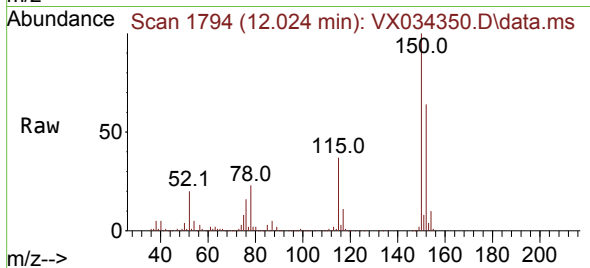




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX034350.D
 Acq: 06 Mar 2023 15:24

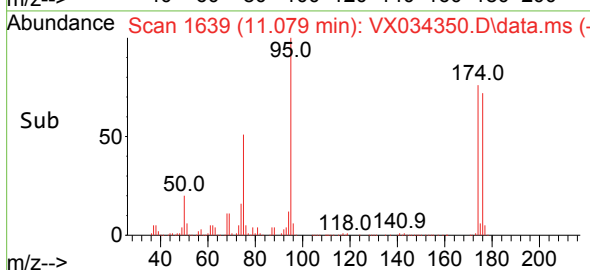
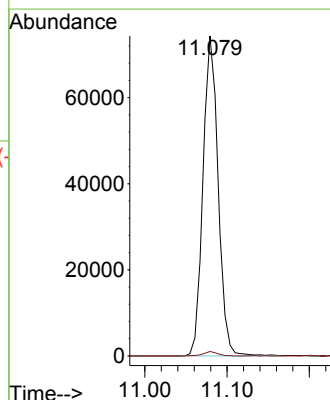
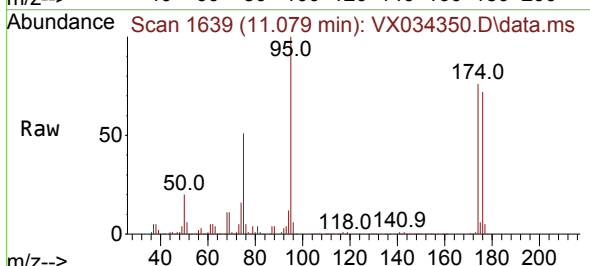
Instrument :
 MSVOA_X
 ClientSampleId :
 31957

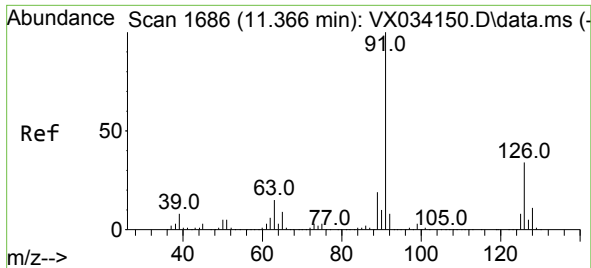
Tgt Ion:152 Resp: 179066
 Ion Ratio Lower Upper
 152 100
 115 59.6 38.7 116.1
 150 157.9 0.0 348.2



#76
 1,2,3-Trichloropropane
 Concen: 21.138 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX034350.D
 Acq: 06 Mar 2023 15:24

Tgt Ion: 75 Resp: 95242
 Ion Ratio Lower Upper
 75 100
 77 1.4 21.8 65.4#

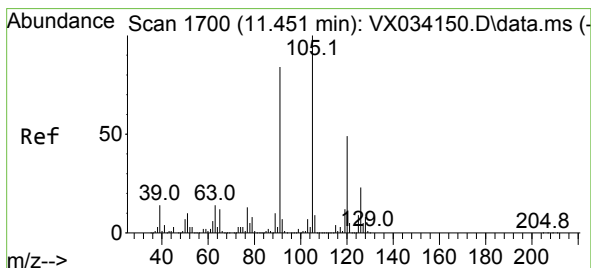
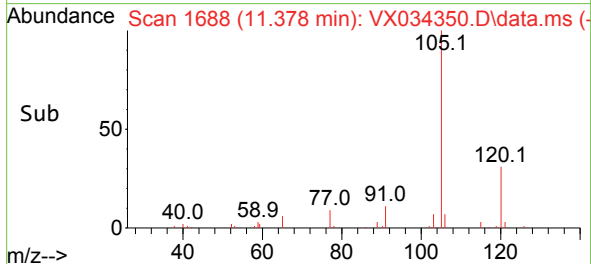
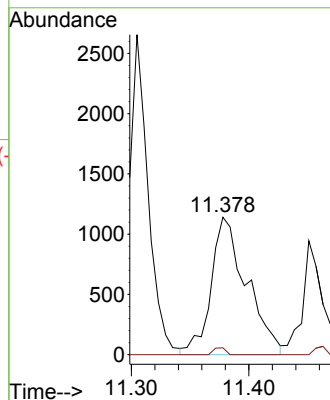
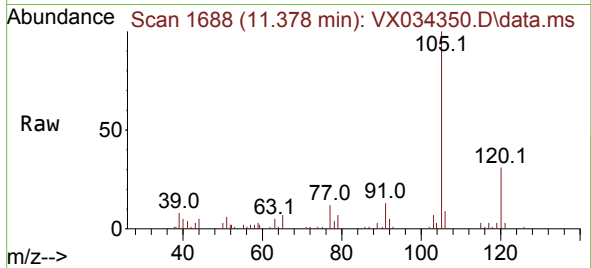




#79
2-Chlorotoluene
Concen: 0.246 ug/l
RT: 11.378 min Scan# 11
Delta R.T. 0.012 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

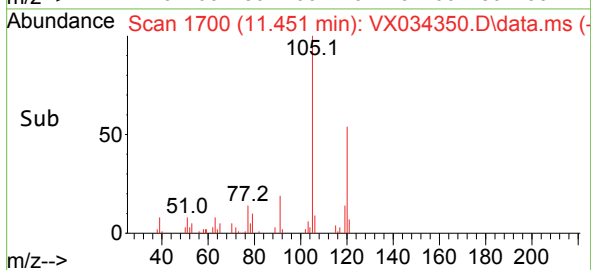
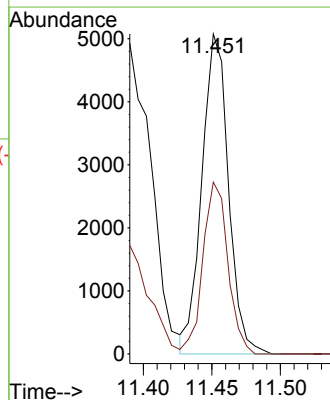
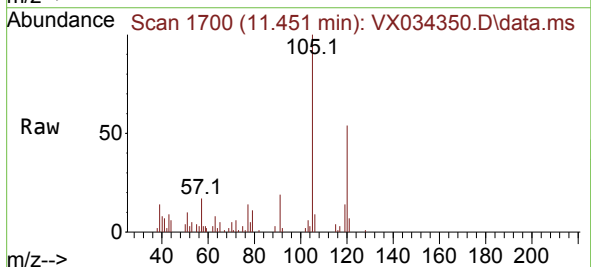
Instrument :
MSVOA_X
ClientSampleId :
31957

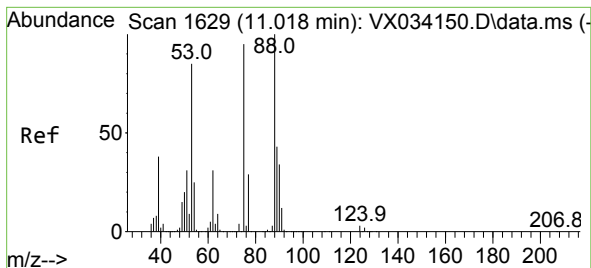
Tgt Ion: 91 Resp: 2396
Ion Ratio Lower Upper
91 100
126 1.7 18.1 54.1#



#80
1,3,5-Trimethylbenzene
Concen: 0.596 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

Tgt Ion: 105 Resp: 6837
Ion Ratio Lower Upper
105 100
120 50.6 25.6 76.8

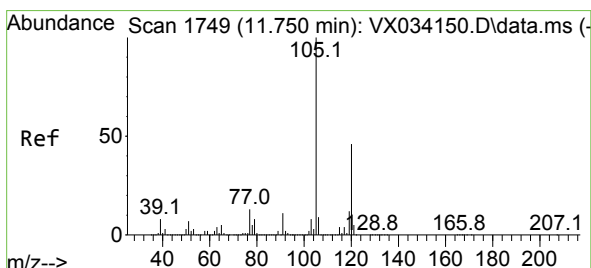
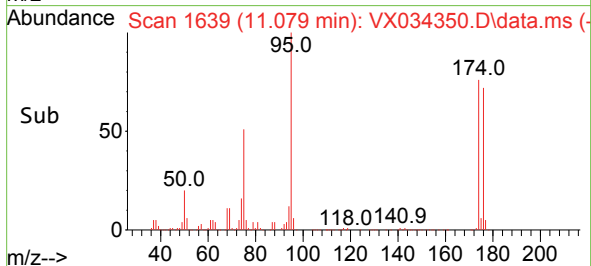
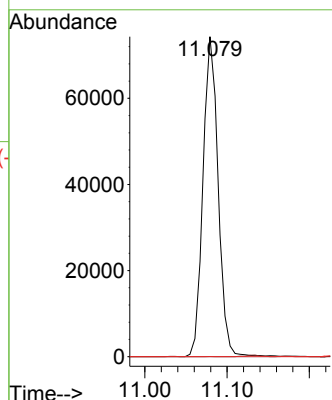
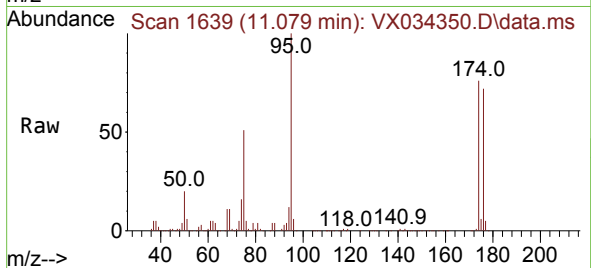




#81
trans-1,4-Dichloro-2-butene
Concen: 54.301 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

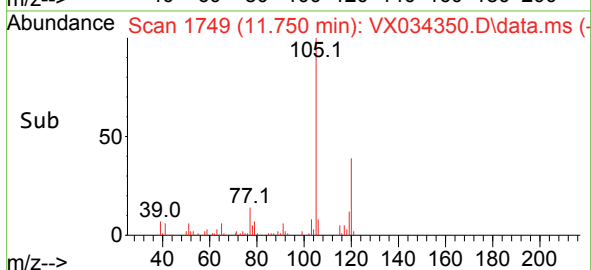
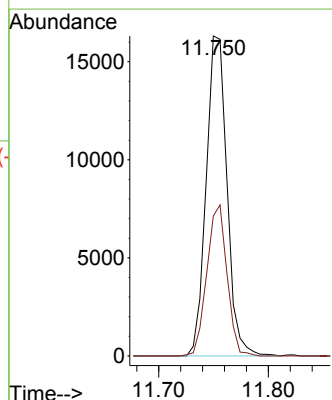
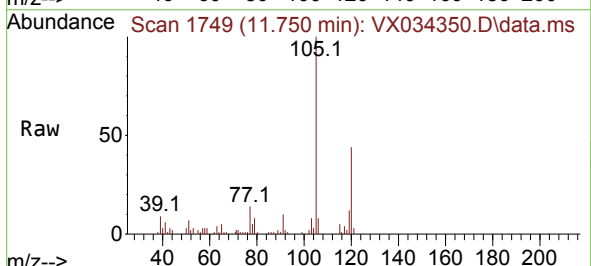
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ClientSampleId :
31957

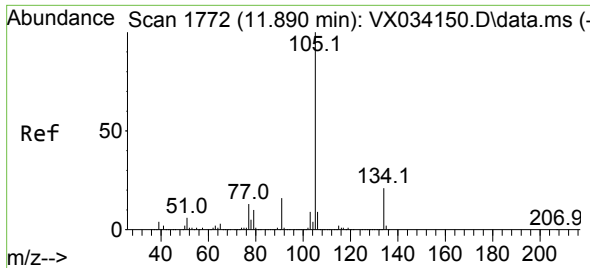
Tgt Ion: 75 Resp: 95242
Ion Ratio Lower Upper
75 100
53 0.0 83.0 124.6#
89 0.0 37.7 56.5#



#84
1,2,4-Trimethylbenzene
Concen: 1.853 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX034350.D
Acq: 06 Mar 2023 15:24

Tgt Ion: 105 Resp: 21496
Ion Ratio Lower Upper
105 100
120 45.7 23.4 70.2

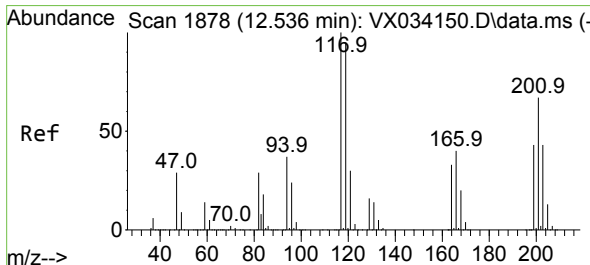
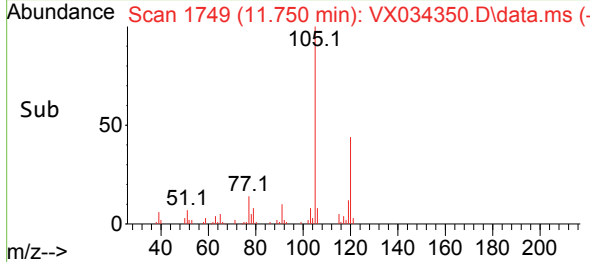
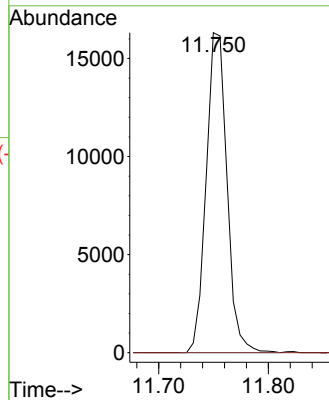
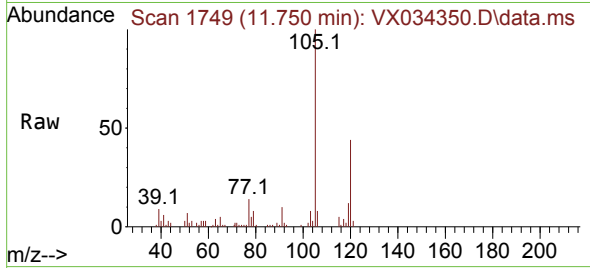




#85
 sec-Butylbenzene
 Concen: 1.506 ug/l
 RT: 11.750 min Scan# 11
 Delta R.T. -0.140 min
 Lab File: VX034350.D
 Acq: 06 Mar 2023 15:24

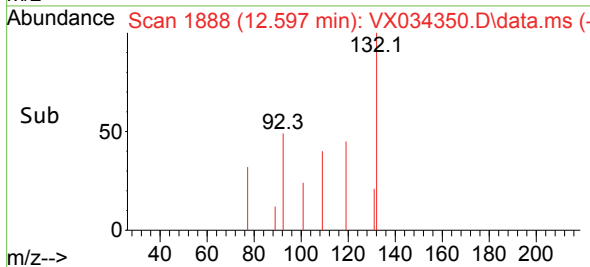
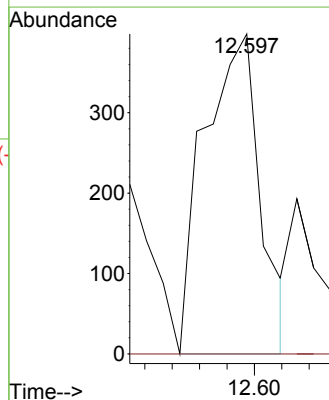
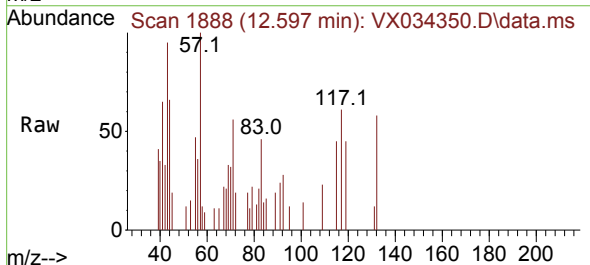
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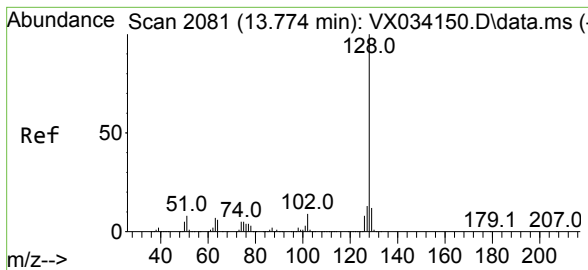
Tgt Ion:105 Resp: 21496
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.8 32.3#



#90
 Hexachloroethane
 Concen: 0.230 ug/l
 RT: 12.597 min Scan# 1888
 Delta R.T. 0.061 min
 Lab File: VX034350.D
 Acq: 06 Mar 2023 15:24

Tgt Ion:117 Resp: 567
 Ion Ratio Lower Upper
 117 100
 201 0.0 45.1 135.3#





#95
 Naphthalene
 Concen: 1.835 ug/l
 RT: 13.780 min Scan# 2082
 Delta R.T. 0.006 min
 Lab File: VX034350.D
 Acq: 06 Mar 2023 15:24

Instrument :
 MSVOA_X
 ClientSampleId :
 31957

Tgt Ion:	128	Resp:	23920
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.4	8.7	13.1

