

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080223\
 Data File : VN078738.D
 Acq On : 02 Aug 2023 19:39
 Operator : JC\MD
 Sample : 03884-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(JUNE)

Quant Time: Aug 03 05:33:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:51:47 2023
 Response via : Initial Calibration

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

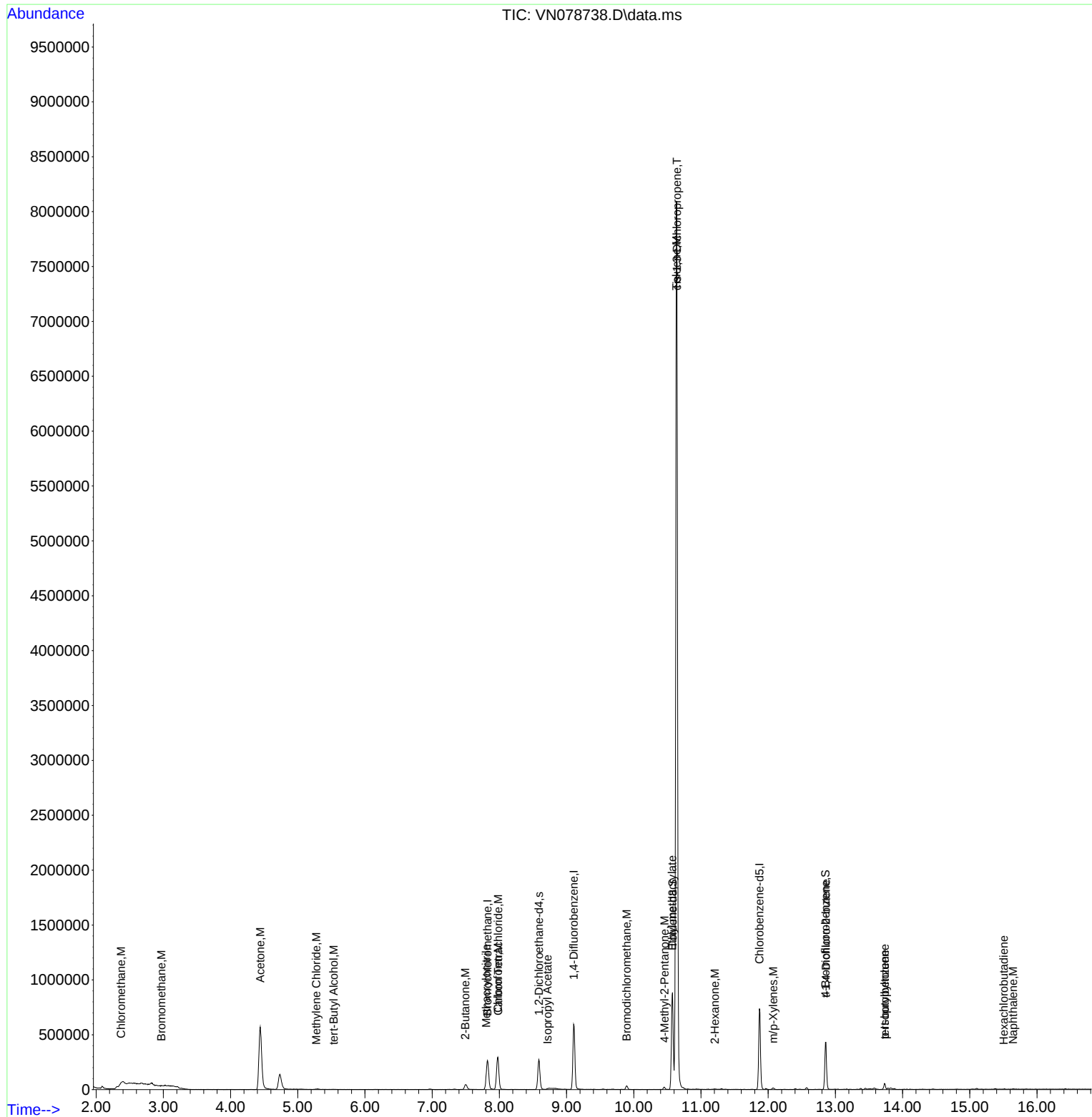
Internal Standards						
1) Bromochloromethane	7.824	128	99102	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	525107	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	452479	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	221779	29.855	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.500%
60) 4-Bromofluorobenzene	12.853	95	152405	22.475	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	74.933%
63) Toluene-d8	10.576	98	647654	28.975	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.567%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	3773	0.490	ug/l	97
5) Bromomethane	2.971	94	2217	0.284	ug/l #	50
15) Acetone	4.442	58	340657	448.360	ug/l	91
18) Methylene Chloride	5.277	84	1483	0.224	ug/l #	14
23) tert-Butyl Alcohol	5.536	59	560	0.523	ug/l #	100
25) Chloroform	7.977	83	294023	24.709	ug/l	93
30) 2-Butanone	7.494	43	74148	24.276	ug/l	100
33) Carbon Tetrachloride	7.982	117	3340	0.385	ug/l #	1
35) Methacrylonitrile	7.806	41	1109	0.331	ug/l #	22
41) Bromodichloromethane	9.894	83	21456	2.492	ug/l #	94
44) Isopropyl Acetate	8.718	43	4119	0.372	ug/l #	46
49) cis-1,3-Dichloropropene	10.641	75	45670	4.679	ug/l #	1
51) Ethyl methacrylate	10.571	69	2055	0.246	ug/l	100
58) 4-Methyl-2-Pentanone	10.459	43	14813	2.187	ug/l	96
59) 2-Hexanone	11.206	43	2444	0.477	ug/l #	73
62) Toluene	10.635	91	6345550	233.146	ug/l	99
67) m/p-Xylenes	12.076	106	3707	0.354	ug/l	85
77) t-1,4-Dichloro-2-butene	12.859	75	80883	32.200	ug/l #	15
79) tert-butylbenzene	13.735	119	26058	1.286	ug/l	61
82) p-Isopropyltoluene	13.735	119	26058	1.222	ug/l	98
90) Hexachlorobutadiene	15.506	225	561	0.241	ug/l #	45
91) Naphthalene	15.647	128	3129	0.337	ug/l #	75

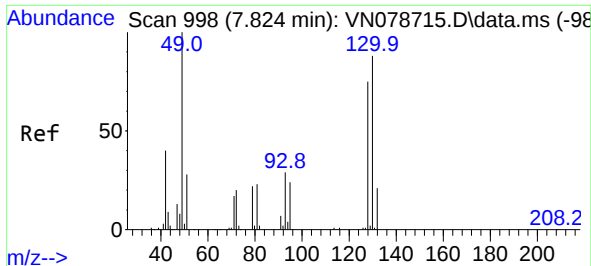
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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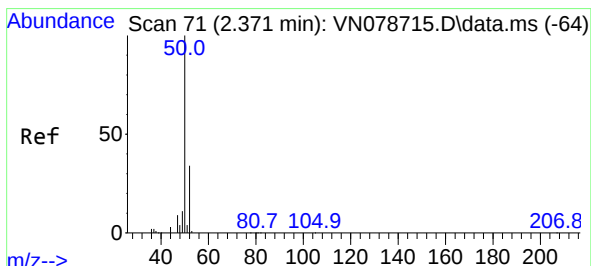
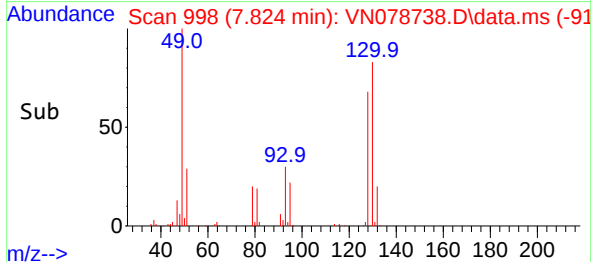
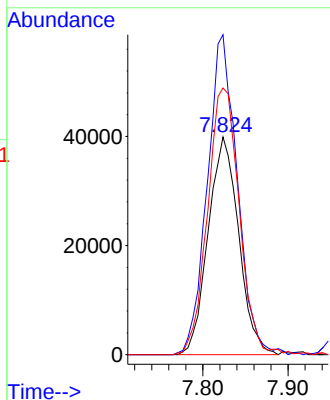
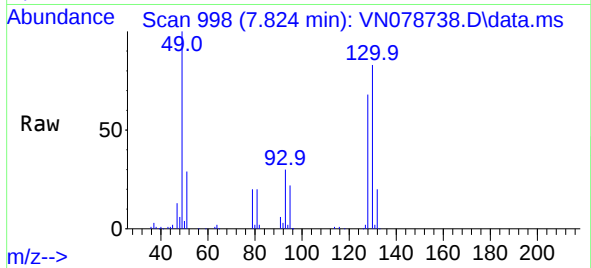




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

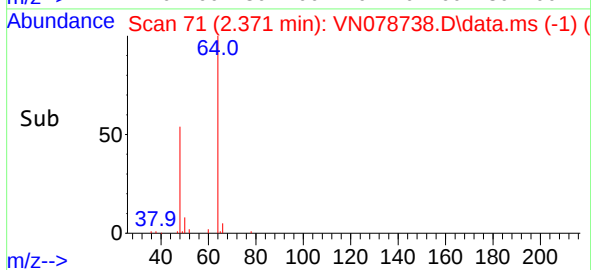
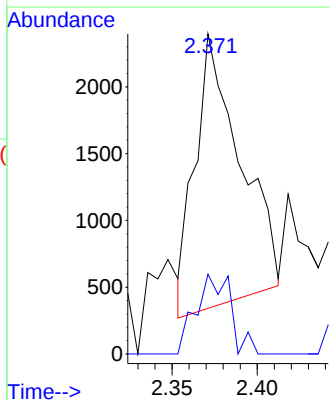
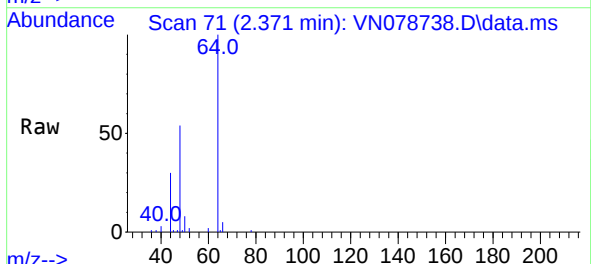
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

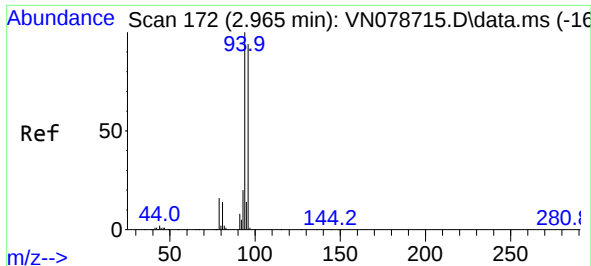
Tgt Ion:128 Resp: 99102
Ion Ratio Lower Upper
128 100
49 143.9 0.0 370.8
130 126.5 0.0 307.0



#3
Chloromethane
Concen: 0.490 ug/l
RT: 2.371 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Tgt Ion: 50 Resp: 3773
Ion Ratio Lower Upper
50 100
52 32.6 24.6 36.8

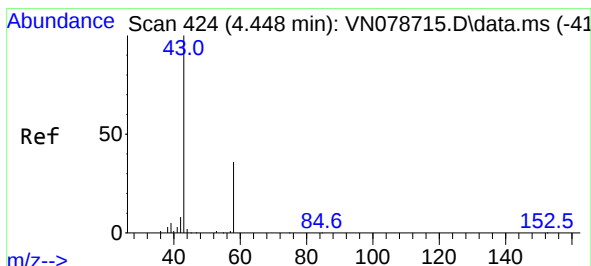
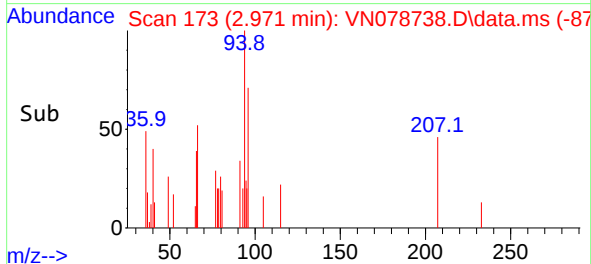
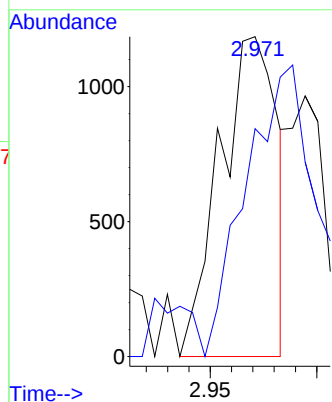
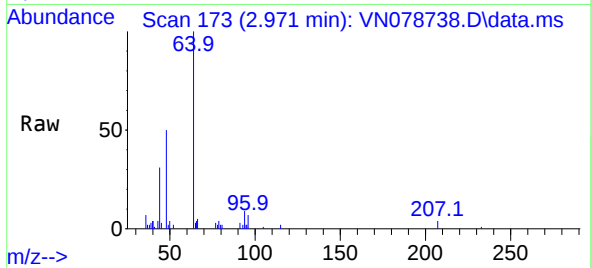




#5
Bromomethane
Concen: 0.284 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

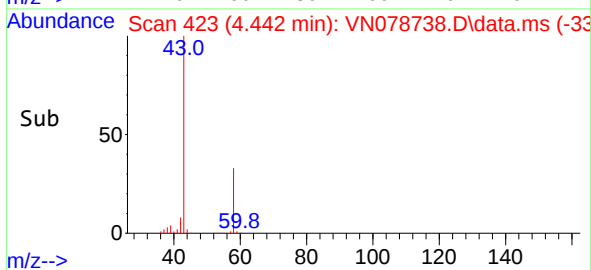
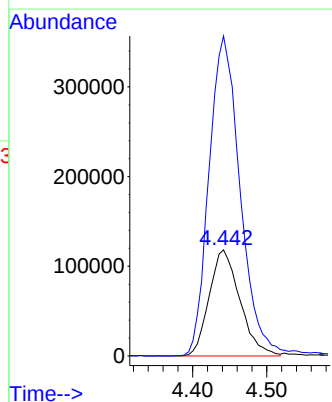
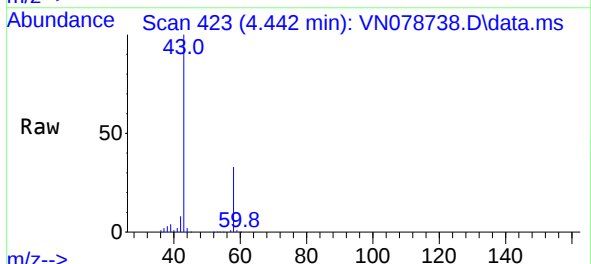
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

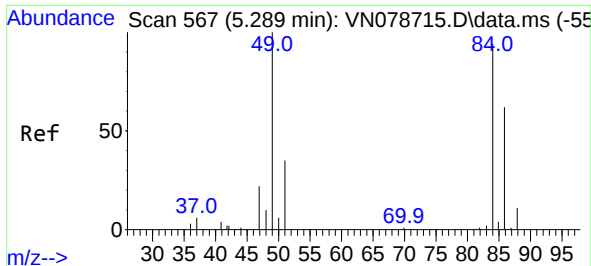
Tgt Ion: 94 Resp: 2217
Ion Ratio Lower Upper
94 100
96 44.9 73.9 110.9#



#15
Acetone
Concen: 448.360 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Tgt Ion: 58 Resp: 340657
Ion Ratio Lower Upper
58 100
43 301.2 227.5 341.3





#18

Methylene Chloride

Concen: 0.224 ug/l

RT: 5.277 min Scan# 5

Delta R.T. -0.012 min

Lab File: VN078738.D

Acq: 02 Aug 2023 19:39

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

Tgt Ion: 84 Resp: 1483

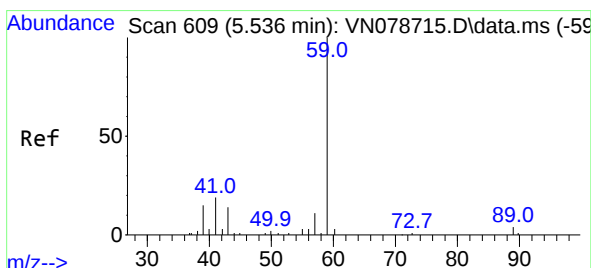
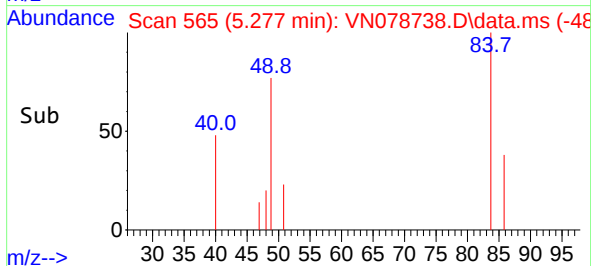
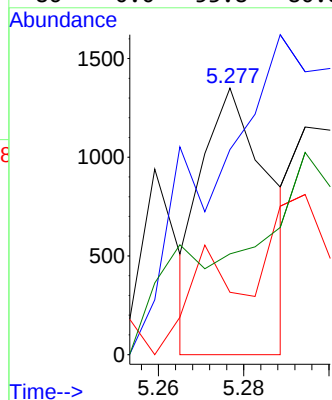
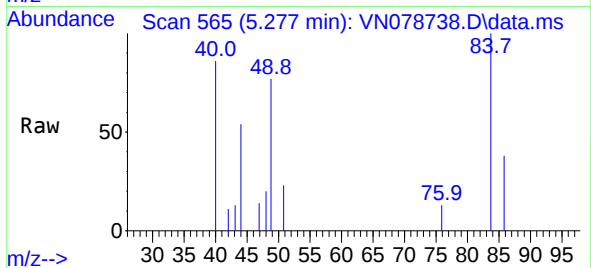
Ion Ratio Lower Upper

84 100

49 0.0 88.1 132.1#

51 15.1 24.0 36.0#

86 0.0 53.8 80.8#



#23

tert-Butyl Alcohol

Concen: 0.523 ug/l

RT: 5.536 min Scan# 609

Delta R.T. -0.000 min

Lab File: VN078738.D

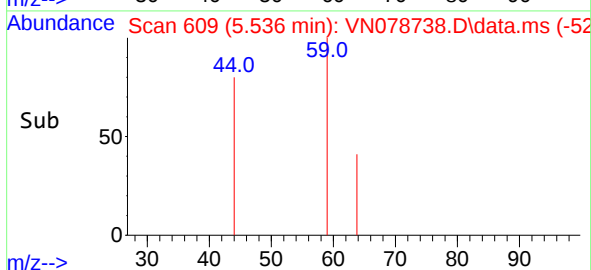
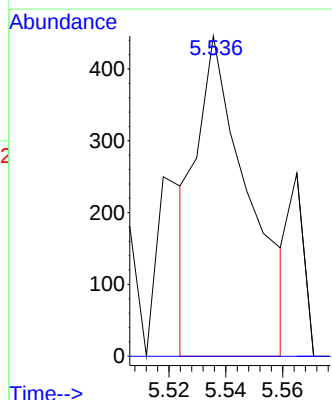
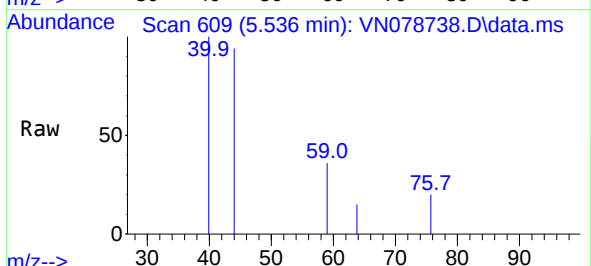
Acq: 02 Aug 2023 19:39

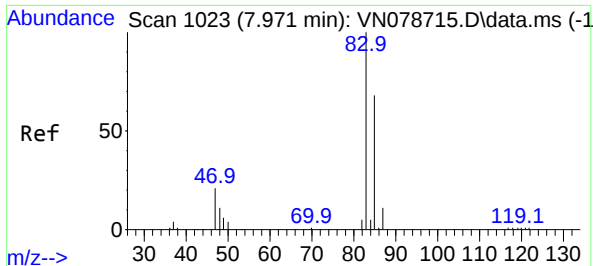
Tgt Ion: 59 Resp: 560

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#





#25

Chloroform

Concen: 24.709 ug/l

RT: 7.977 min Scan# 1023

Delta R.T. 0.006 min

Lab File: VN078738.D

Acq: 02 Aug 2023 19:39

Instrument :

MSVOA_N

ClientSampleId :

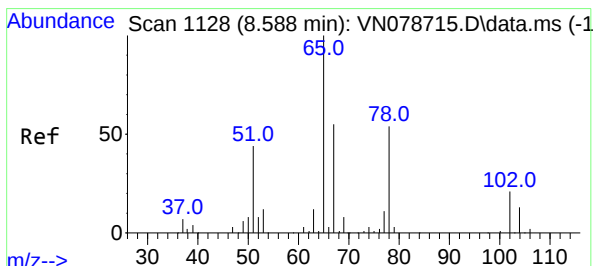
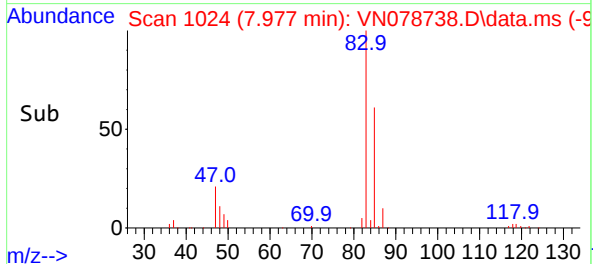
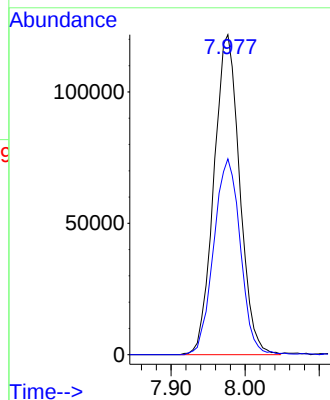
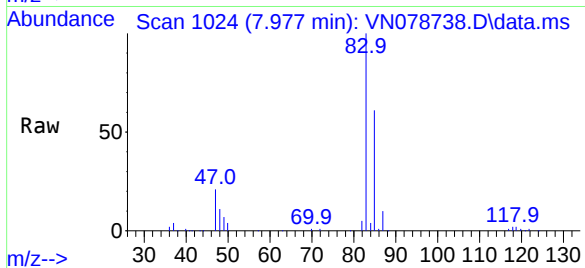
002-35TH-AVE(JUNE)

Tgt Ion: 83 Resp: 294023

Ion Ratio Lower Upper

83 100

85 61.2 53.4 80.0



#27

1,2-Dichloroethane-d4

Concen: 29.855 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN078738.D

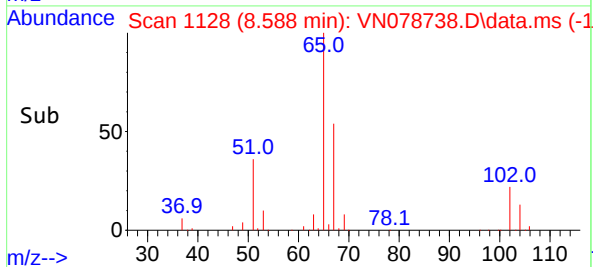
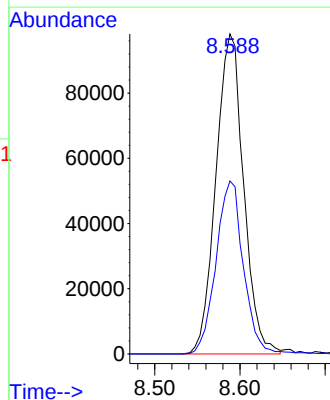
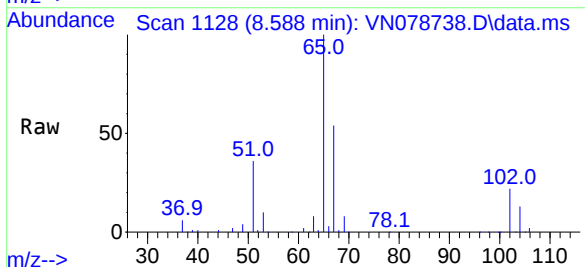
Acq: 02 Aug 2023 19:39

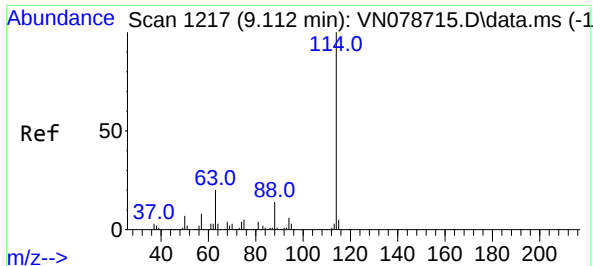
Tgt Ion: 65 Resp: 221779

Ion Ratio Lower Upper

65 100

67 53.4 42.9 64.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN078738.D

Acq: 02 Aug 2023 19:39

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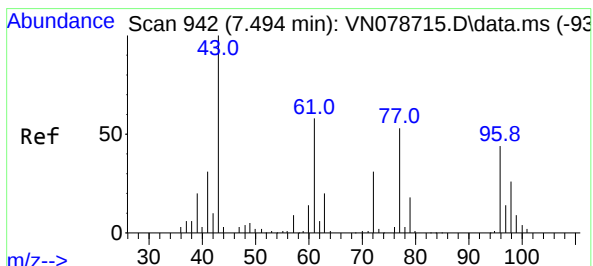
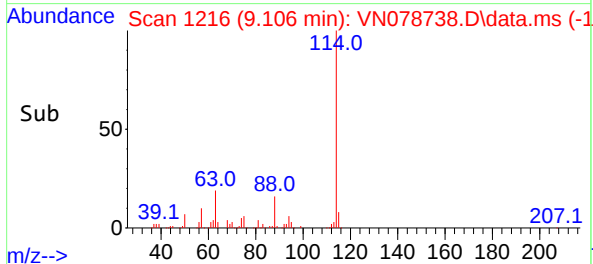
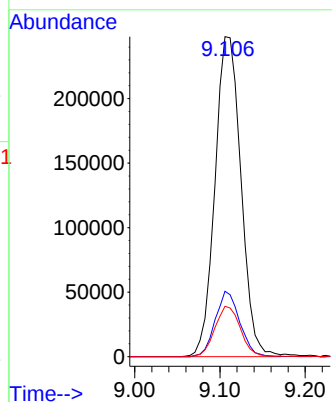
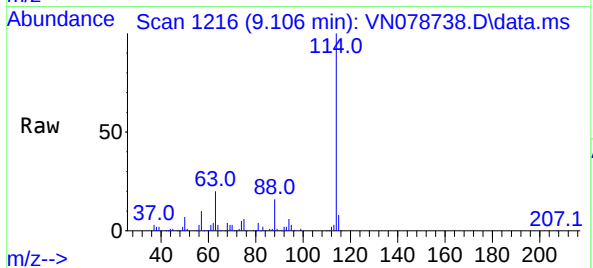
Tgt Ion:114 Resp: 525107

Ion Ratio Lower Upper

114 100

63 19.2 15.2 22.8

88 15.5 12.5 18.7



#30

2-Butanone

Concen: 24.276 ug/l

RT: 7.494 min Scan# 942

Delta R.T. -0.000 min

Lab File: VN078738.D

Acq: 02 Aug 2023 19:39

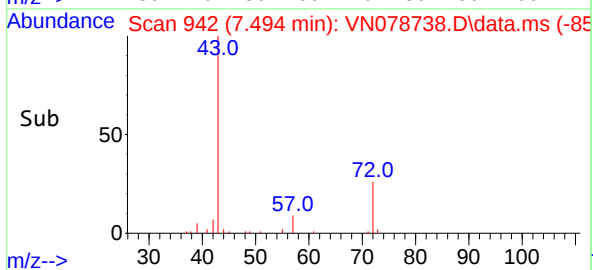
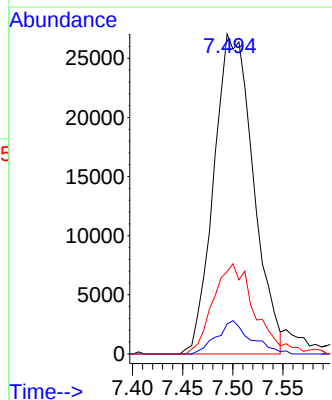
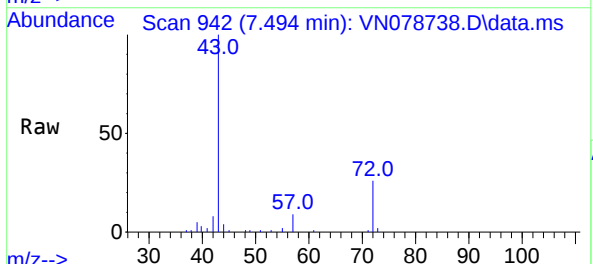
Tgt Ion: 43 Resp: 74148

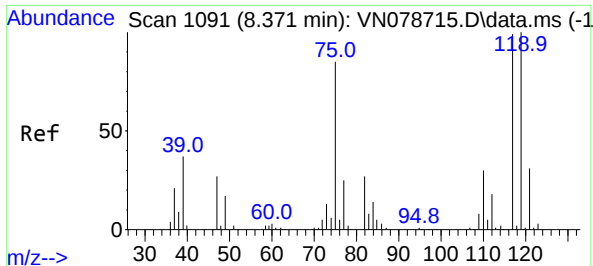
Ion Ratio Lower Upper

43 100

57 7.8 6.8 10.2

72 29.7 23.8 35.6

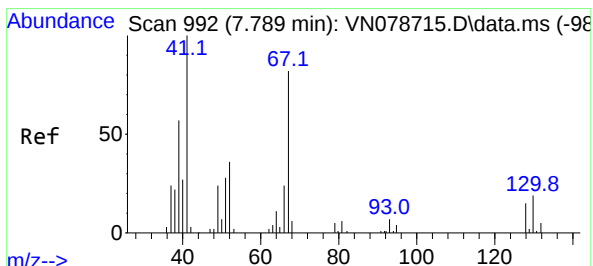
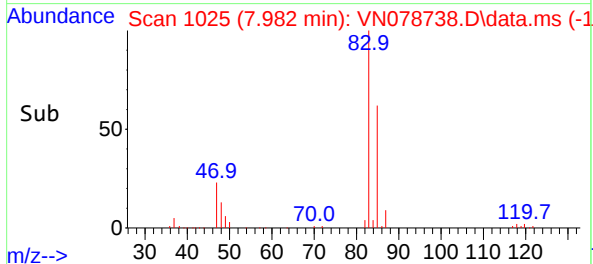
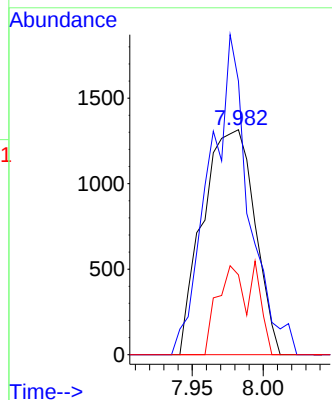
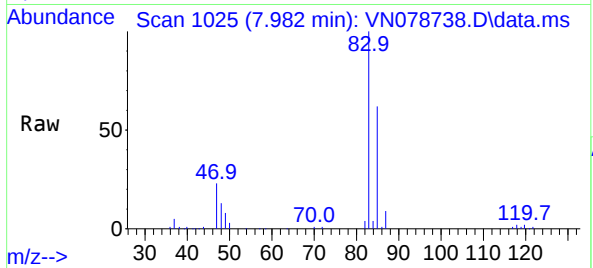




#33
Carbon Tetrachloride
Concen: 0.385 ug/l
RT: 7.982 min Scan# 1091
Delta R.T. -0.388 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

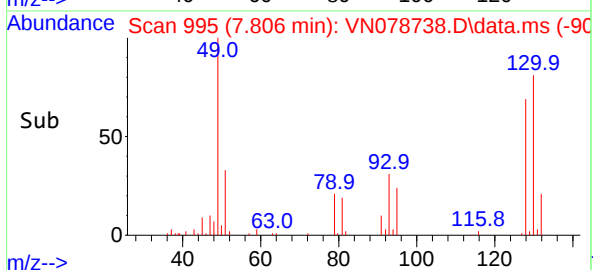
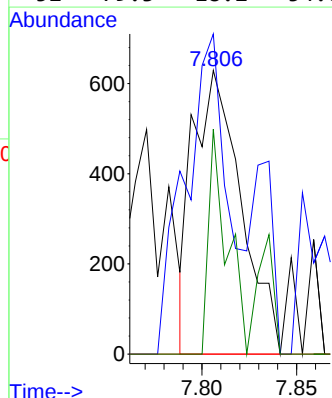
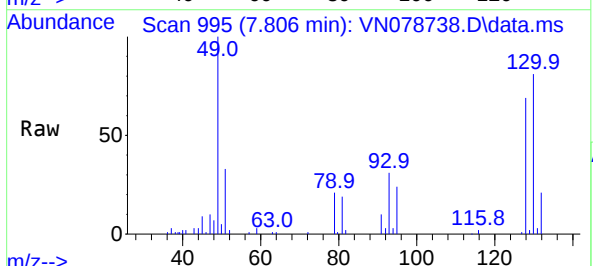
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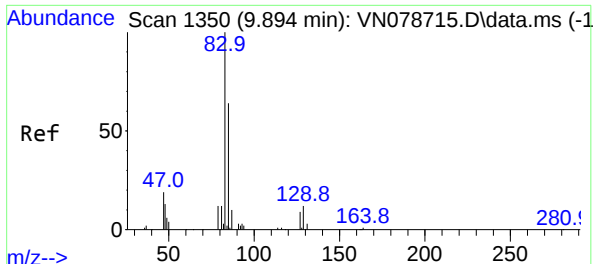
Tgt Ion:117 Resp: 3340
Ion Ratio Lower Upper
117 100
119 281.6 81.4 122.0#
121 116.5 23.6 35.4#



#35
Methacrylonitrile
Concen: 0.331 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.018 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Tgt Ion: 41 Resp: 1109
Ion Ratio Lower Upper
41 100
39 112.9 33.9 101.6#
67 0.0 45.9 137.6#
52 79.3 18.2 54.6#

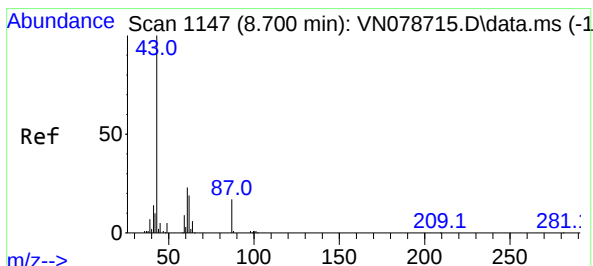
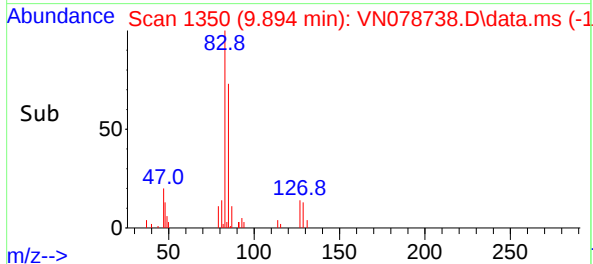
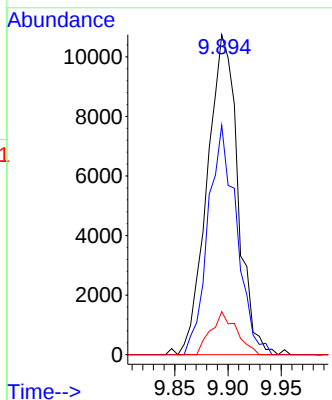
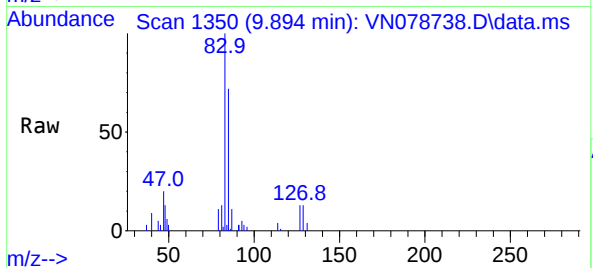




#41
Bromodichloromethane
Concen: 2.492 ug/l
RT: 9.894 min Scan# 1150
Delta R.T. -0.000 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

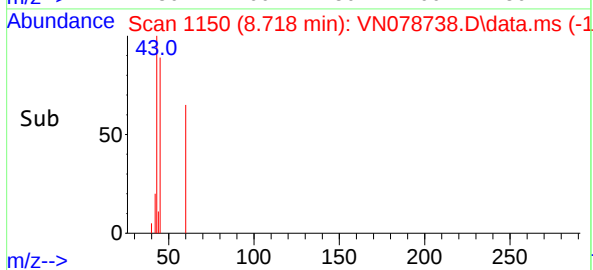
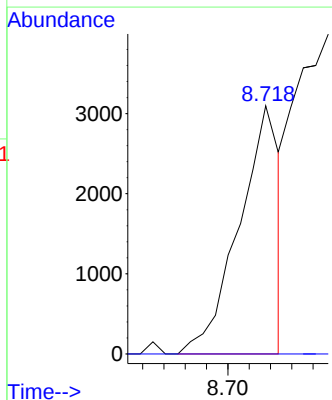
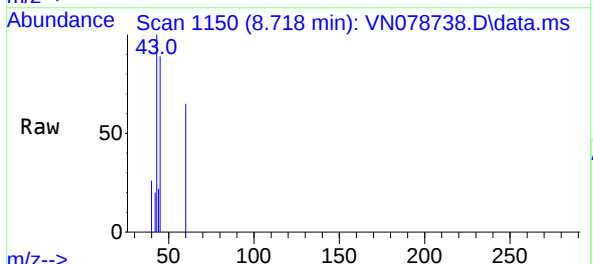
Instrument :
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002-35TH-AVE(JUNE)

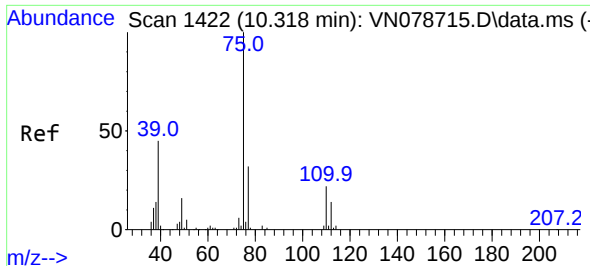
Tgt Ion:	83	Resp:	21456
Ion Ratio	Lower	Upper	
83	100		
85	71.7	54.1	81.1
127	13.5	7.8	11.6#



#44
Isopropyl Acetate
Concen: 0.372 ug/l
RT: 8.718 min Scan# 1150
Delta R.T. 0.018 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Tgt Ion:	43	Resp:	4119
Ion Ratio	Lower	Upper	
43	100		
61	0.0	23.0	34.6#

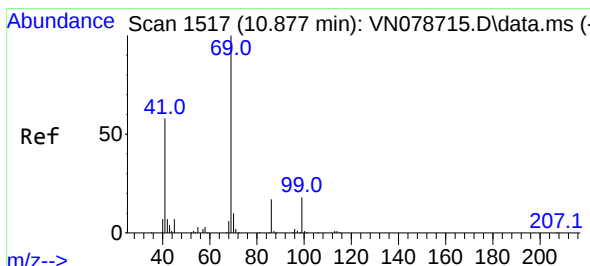
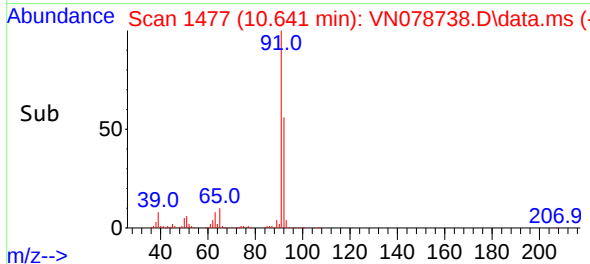
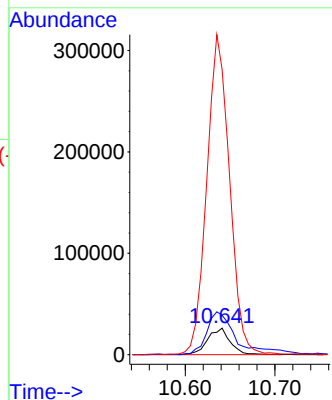
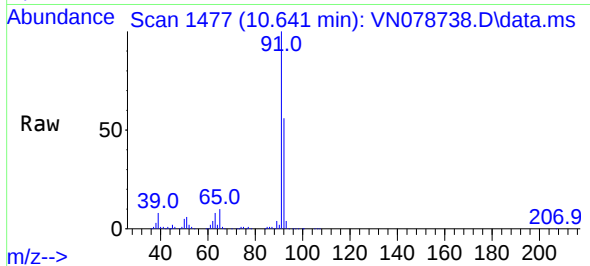




#49
cis-1,3-Dichloropropene
Concen: 4.679 ug/l
RT: 10.641 min Scan# 1465
Delta R.T. 0.323 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

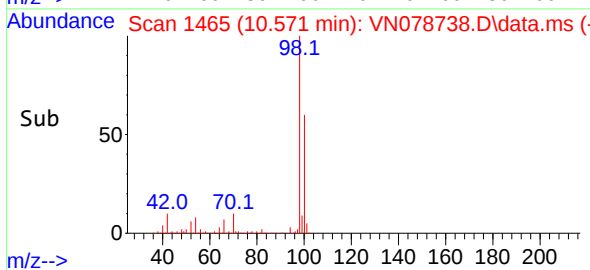
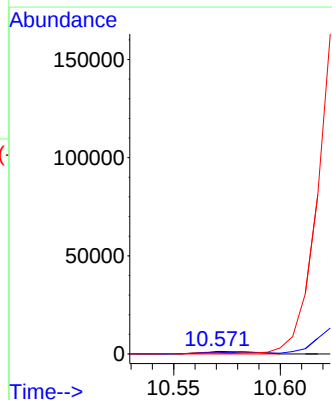
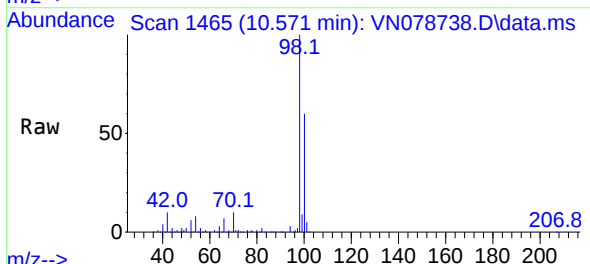
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

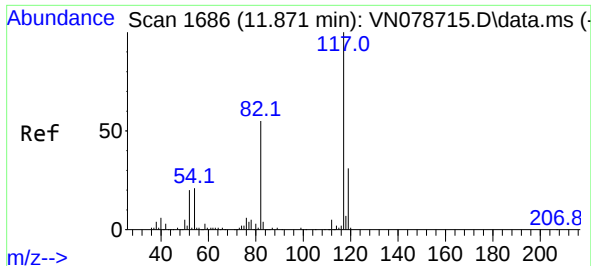
Tgt Ion: 75 Resp: 45670
Ion Ratio Lower Upper
75 100
77 148.4 24.0 36.0#
39 1071.1 35.1 52.7#



#51
Ethyl methacrylate
Concen: 0.246 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.306 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Tgt Ion: 69 Resp: 2055
Ion Ratio Lower Upper
69 100
41 52.3 26.0 78.0
39 32.7 16.3 48.9

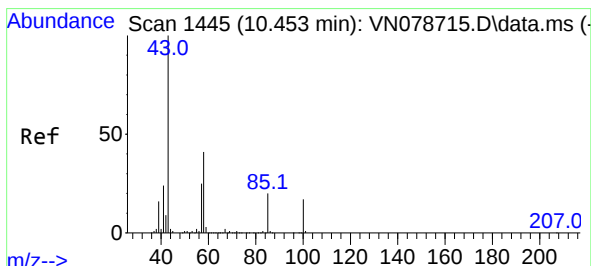
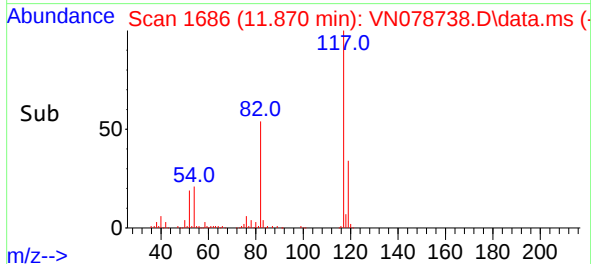
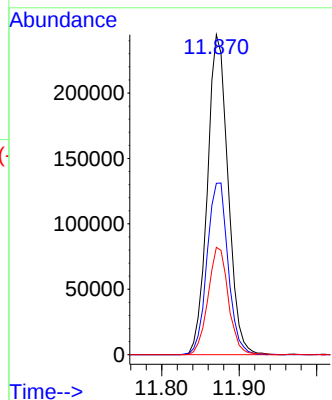
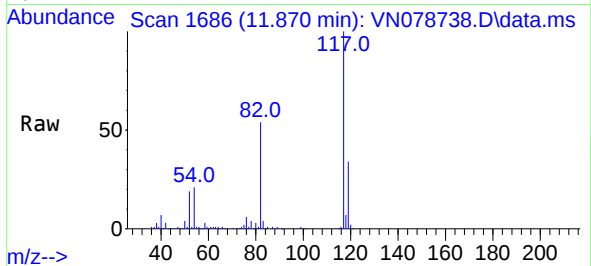




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

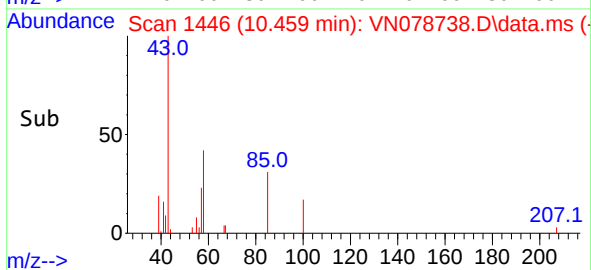
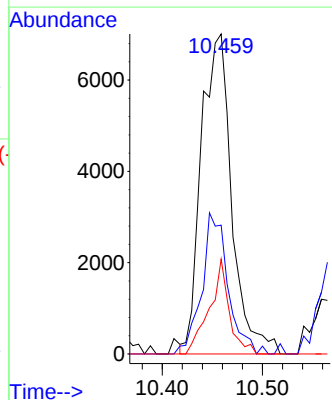
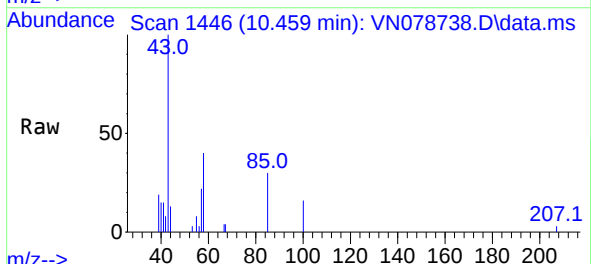
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

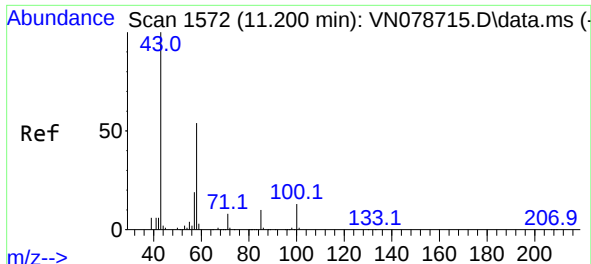
Tgt Ion:117 Resp: 452479
Ion Ratio Lower Upper
117 100
82 54.8 43.9 65.9
119 33.1 26.2 39.4



#58
4-Methyl-2-Pentanone
Concen: 2.187 ug/l
RT: 10.459 min Scan# 1446
Delta R.T. 0.006 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Tgt Ion: 43 Resp: 14813
Ion Ratio Lower Upper
43 100
58 37.5 32.6 48.8
85 19.2 16.2 24.2

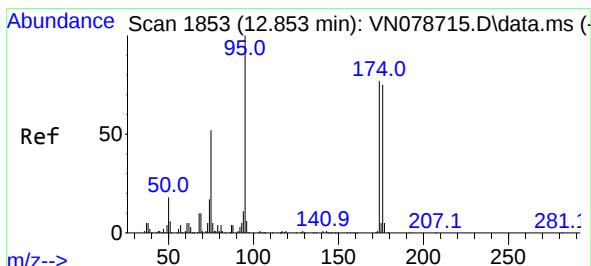
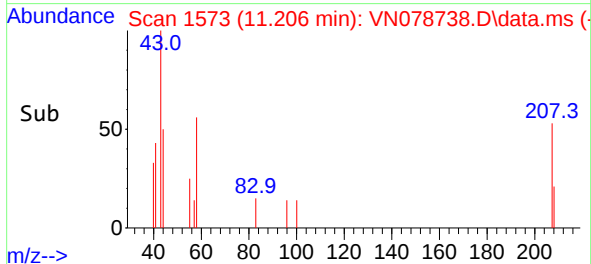
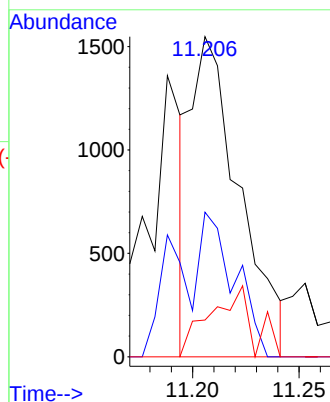
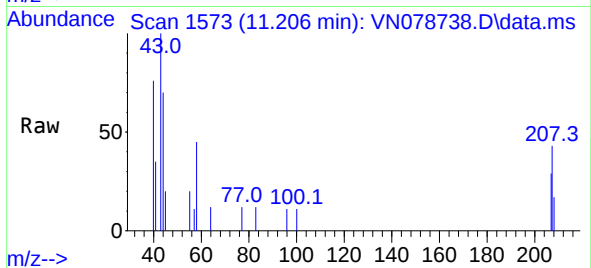




#59
2-Hexanone
Concen: 0.477 ug/l
RT: 11.206 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

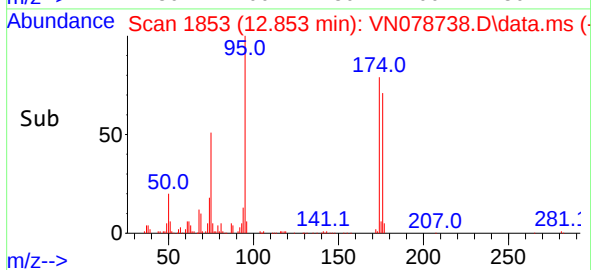
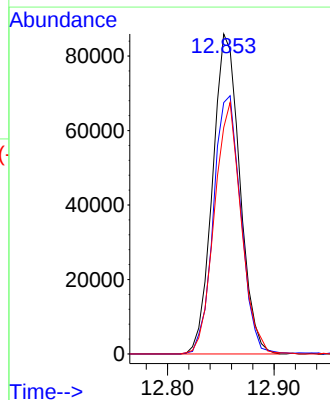
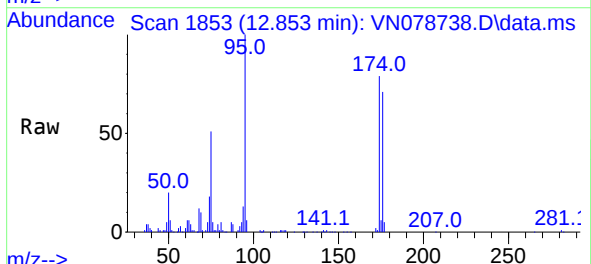
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

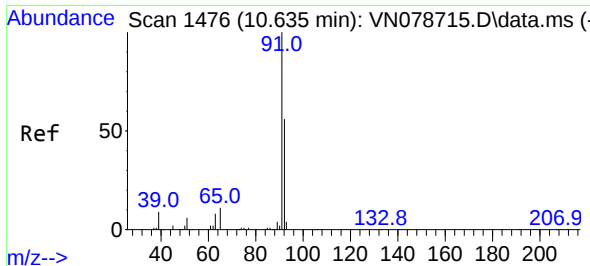
Tgt Ion: 43 Resp: 2444
Ion Ratio Lower Upper
43 100
58 32.3 45.9 68.9#
57 16.7 15.8 23.6



#60
4-Bromofluorobenzene
Concen: 22.475 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Tgt Ion: 95 Resp: 152405
Ion Ratio Lower Upper
95 100
174 81.1 61.7 92.5
176 77.4 58.1 87.1

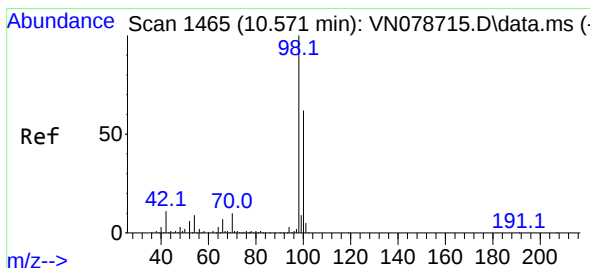
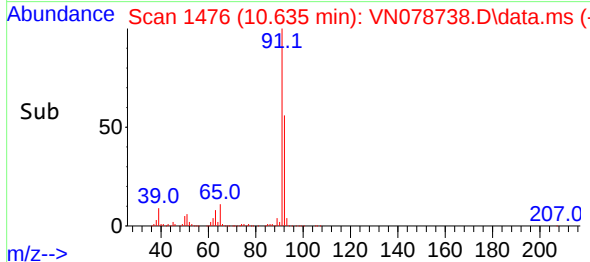
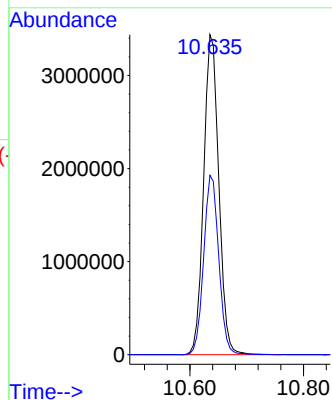
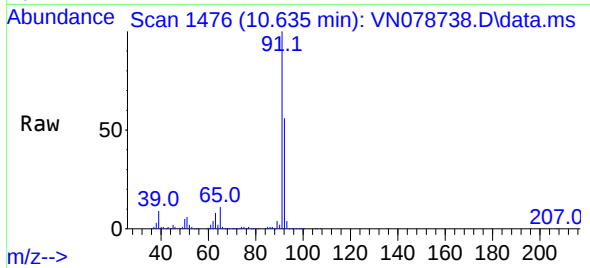




#62
Toluene
Concen: 233.146 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

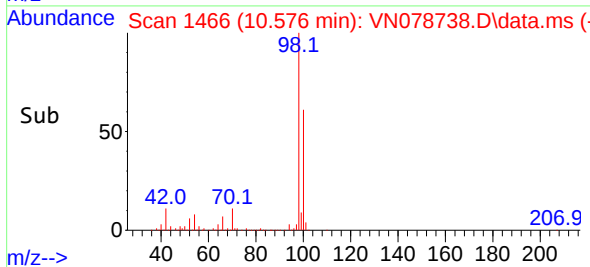
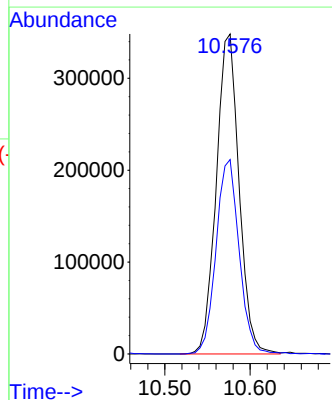
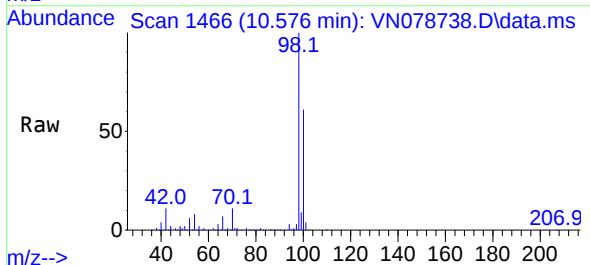
Instrument :
MSVOA_N
ClientSampleId :
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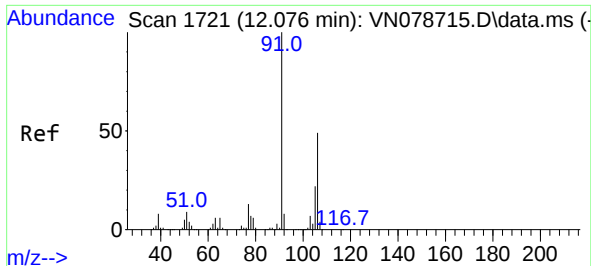
Tgt Ion: 91 Resp: 6345550
Ion Ratio Lower Upper
91 100
92 55.9 45.2 67.8



#63
Toluene-d8
Concen: 28.975 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Tgt Ion: 98 Resp: 647654
Ion Ratio Lower Upper
98 100
100 61.4 49.7 74.5

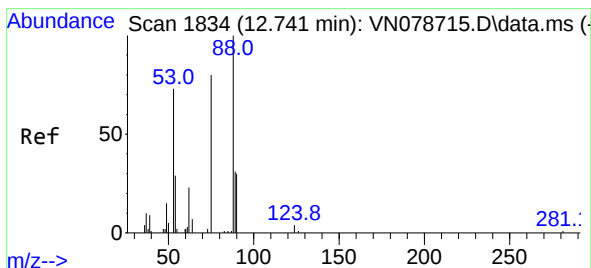
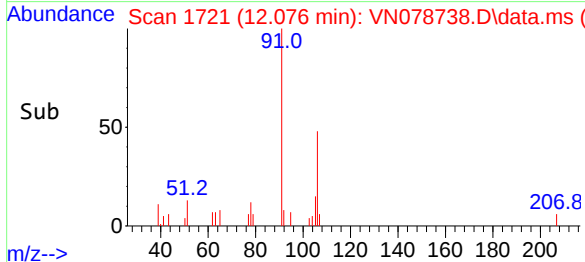
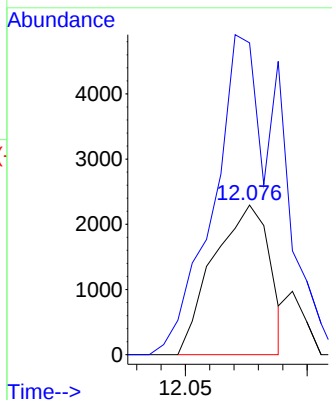
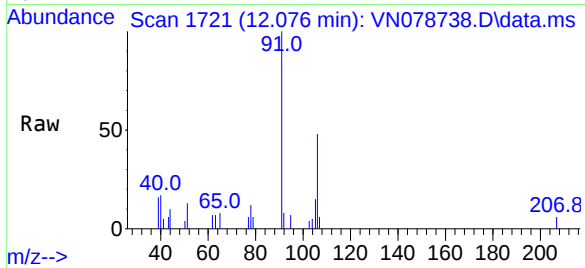




#67
m/p-Xylenes
Concen: 0.354 ug/l
RT: 12.076 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

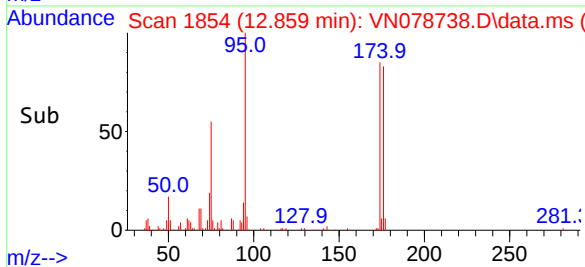
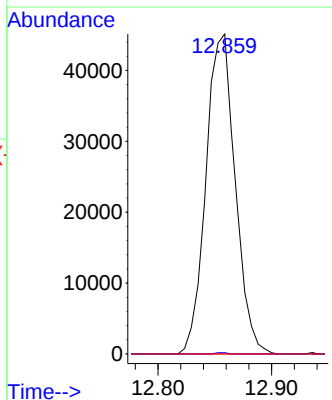
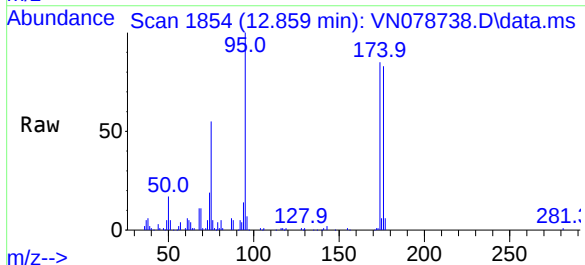
Instrument :
MSVOA_N
ClientSampleId :
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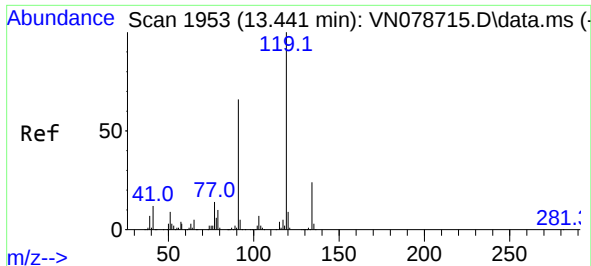
Tgt Ion:106 Resp: 3707
Ion Ratio Lower Upper
106 100
91 180.2 162.5 243.7



#77
t-1,4-Dichloro-2-butene
Concen: 32.200 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Tgt Ion: 75 Resp: 80883
Ion Ratio Lower Upper
75 100
53 0.4 41.6 124.9#
89 0.0 25.1 75.4#

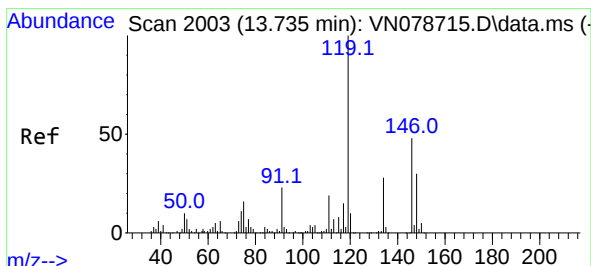
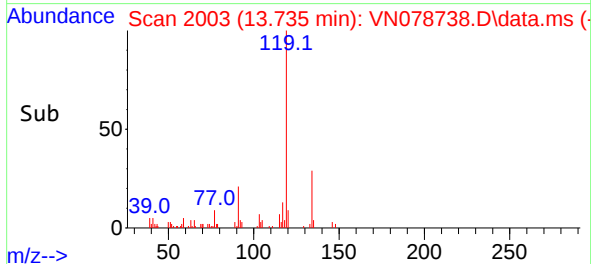
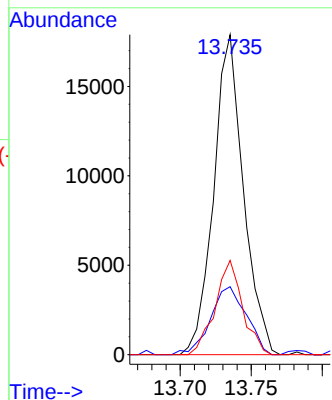
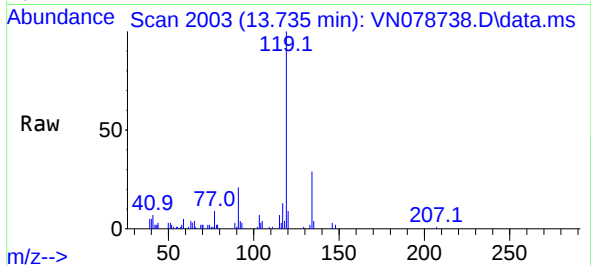




#79
tert-butylbenzene
Concen: 1.286 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

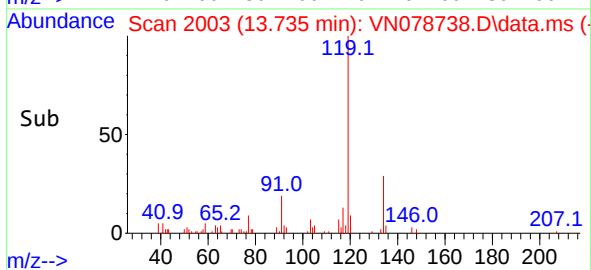
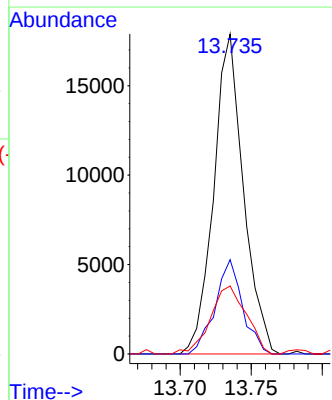
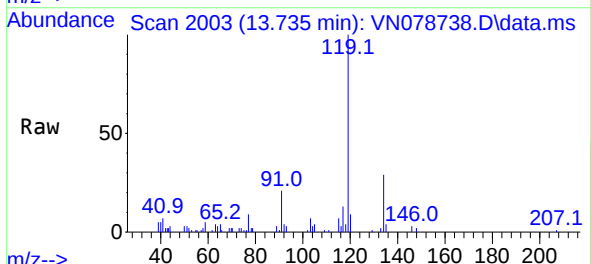
Instrument :
MSVOA_N
ClientSampleId :
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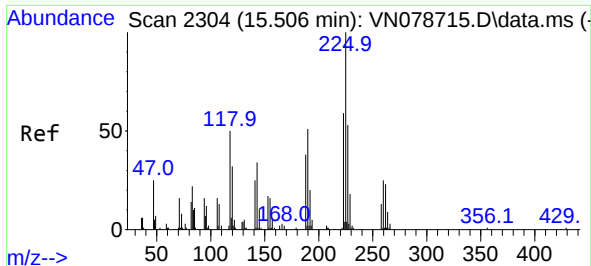
Tgt Ion:	119	Resp:	26058
Ion	Ratio	Lower	Upper
119	100		
91	25.6	0.0	126.6
134	27.2	0.0	44.0



#82
p-Isopropyltoluene
Concen: 1.222 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Tgt Ion:	119	Resp:	26058
Ion	Ratio	Lower	Upper
119	100		
134	27.2	0.0	52.4
91	25.6	0.0	48.2

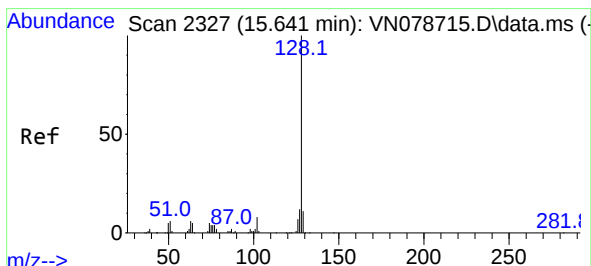
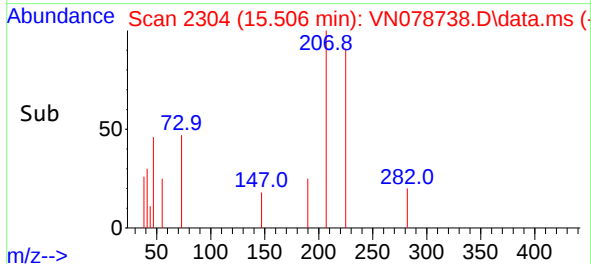
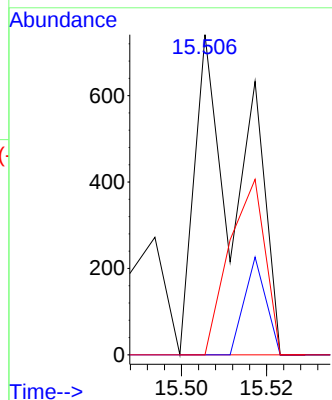
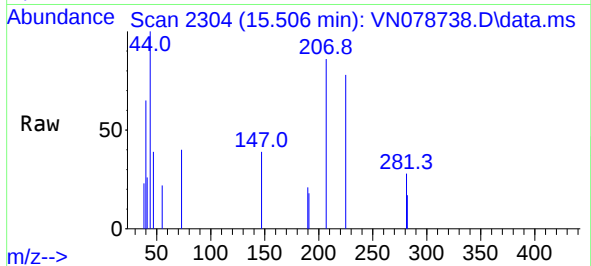




#90
Hexachlorobutadiene
Concen: 0.241 ug/l
RT: 15.506 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Instrument :
MSVOA_N
ClientSampleId :
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Tgt Ion:	225	Resp:	561
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	130.0
227	42.2	0.0	124.0



#91
Naphthalene
Concen: 0.337 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.006 min
Lab File: VN078738.D
Acq: 02 Aug 2023 19:39

Tgt Ion:	128	Resp:	3129
Ion	Ratio	Lower	Upper
128	100		
127	4.4	10.2	15.2#
129	0.0	9.0	13.4#

