

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050923\
 Data File : VN077642.D
 Acq On : 09 May 2023 19:20
 Operator : JC\MD
 Sample : 02652-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CLAY-LINER

Quant Time: May 10 04:50:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N050923W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 09 13:52:31 2023
 Response via : Initial Calibration

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

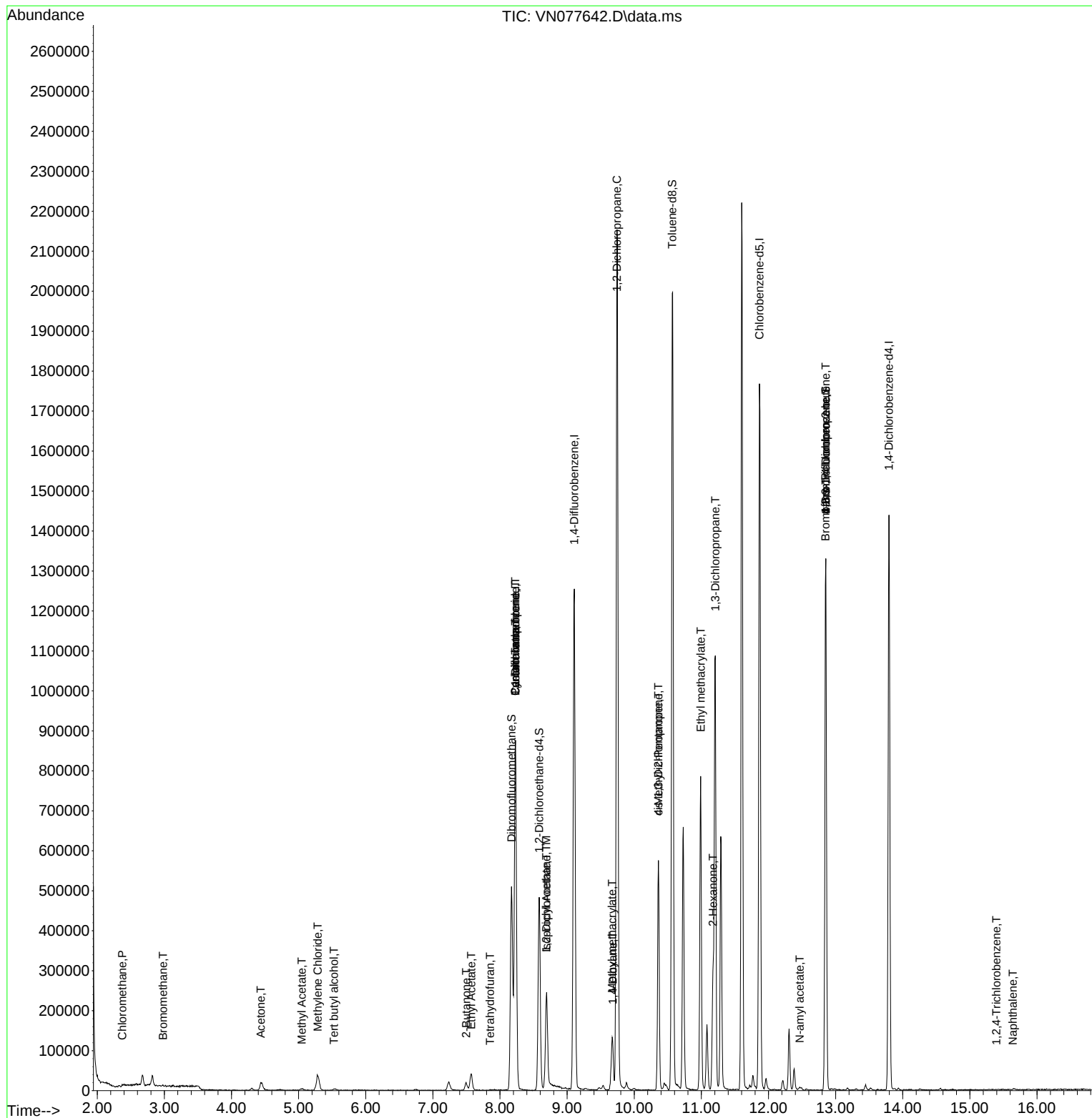
Internal Standards						
1) Pentafluorobenzene	8.230	168	654004	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1166593	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	1126525	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	408973	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	404945	48.822	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.640%		
35) Dibromofluoromethane	8.172	113	367383	50.494	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.980%		
50) Toluene-d8	10.566	98	1509508	54.799	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	109.600%		
62) 4-Bromofluorobenzene	12.854	95	474741	50.955	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	101.920%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.372	50	1870	0.284	ug/l	91
5) Bromomethane	2.978	94	1442	0.208	ug/l #	29
11) Tert butyl alcohol	5.525	59	3478	3.565	ug/l #	80
16) Acetone	4.437	43	33765	17.143	ug/l #	85
18) Methyl Acetate	5.048	43	4397	0.563	ug/l #	51
20) Methylene Chloride	5.284	84	31774	3.893	ug/l #	80
25) 2-Butanone	7.495	43	26394	9.168	ug/l	89
29) Tetrahydrofuran	7.854	42	958	0.542	ug/l #	31
31) Cyclohexane	8.230	56	13303	1.255	ug/l #	16
36) 1,1-Dichloropropene	8.230	75	52398	5.219	ug/l #	47
37) Ethyl Acetate	7.572	43	58124	10.124	ug/l	97
38) Carbon Tetrachloride	8.230	117	70963	6.469	ug/l #	16
42) 1,2-Dichloroethane	8.689	62	2786	0.274	ug/l #	73
43) Isopropyl Acetate	8.689	43	279037	27.720	ug/l #	89
45) 1,2-Dichloropropane	9.742	63	3671	0.526	ug/l #	45
48) Methyl methacrylate	9.672	41	7609	1.611	ug/l #	27
49) 1,4-Dioxane	9.683	88	198	1.409	ug/l #	1
51) 4-Methyl-2-Pentanone	10.360	43	187169	31.606	ug/l #	42
54) cis-1,3-Dichloropropene	10.360	75	121492	10.329	ug/l #	63
56) Ethyl methacrylate	10.989	69	2948	0.298	ug/l #	1
57) 1,3-Dichloropropane	11.207	76	13923	1.106	ug/l #	42
59) 2-Hexanone	11.171	43	205801	49.171	ug/l #	19
71) Bromoform	12.848	173	2693	0.532	ug/l #	1
74) N-amyl acetate	12.465	43	5661	0.703	ug/l #	44
76) 1,2,3-Trichloropropane	12.854	75	251068	29.748	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	251068	94.722	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.395	180	64	4.591	ug/l #	1
95) Naphthalene	15.642	128	1133	4.788	ug/l #	70

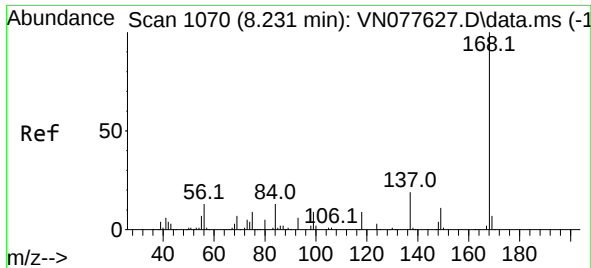
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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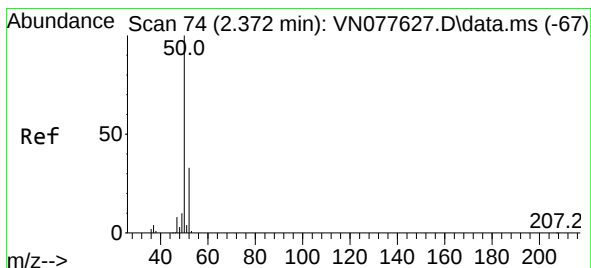
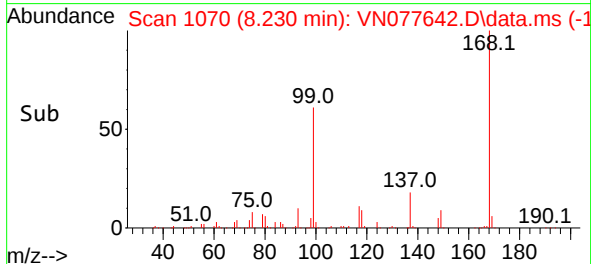
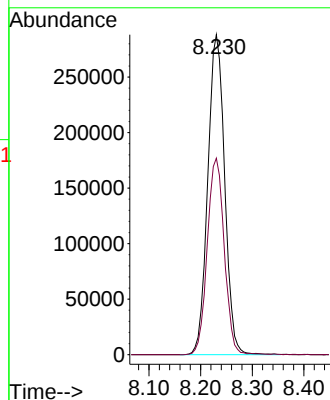
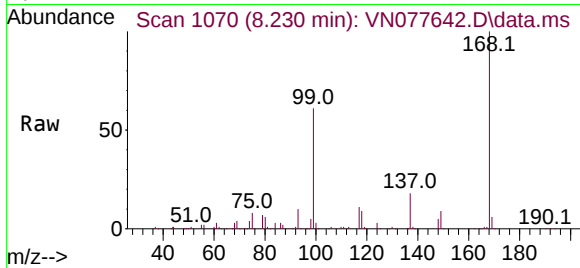




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

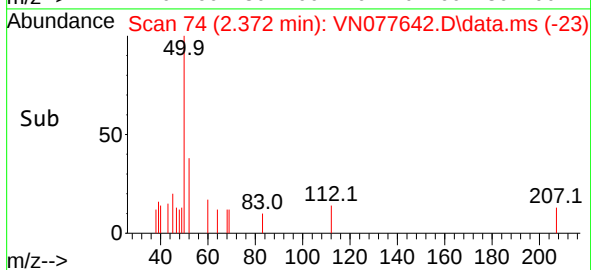
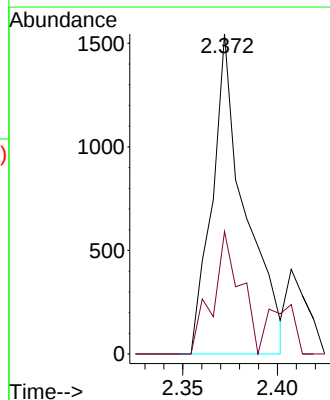
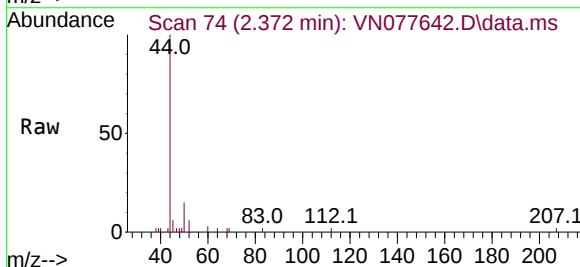
Instrument :
MSVOA_N
ClientSampleId :
CLAY-LINER

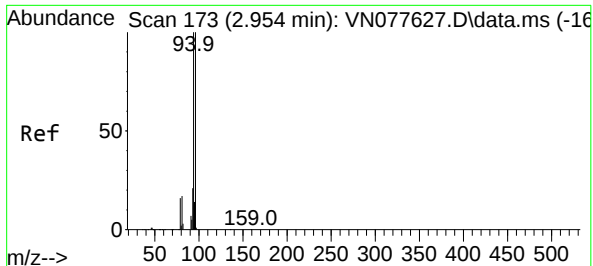
Tgt Ion:168 Resp: 654004
Ion Ratio Lower Upper
168 100
99 61.4 53.0 79.6



#3
Chloromethane
Concen: 0.284 ug/l
RT: 2.372 min Scan# 74
Delta R.T. 0.000 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

Tgt Ion: 50 Resp: 1870
Ion Ratio Lower Upper
50 100
52 38.3 26.5 39.7

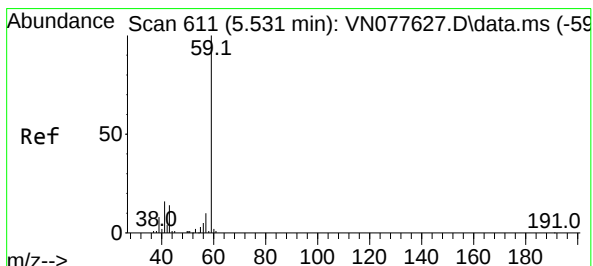
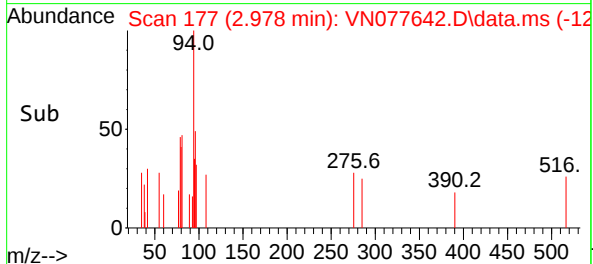
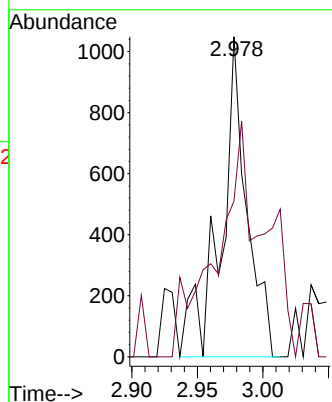
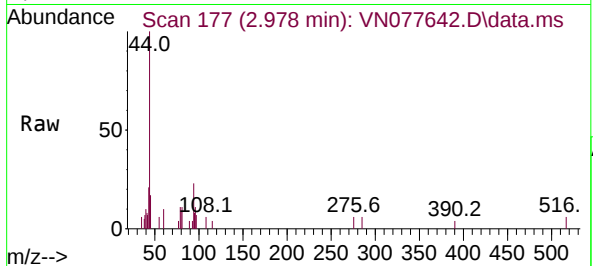




#5
Bromomethane
Concen: 0.208 ug/l
RT: 2.978 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

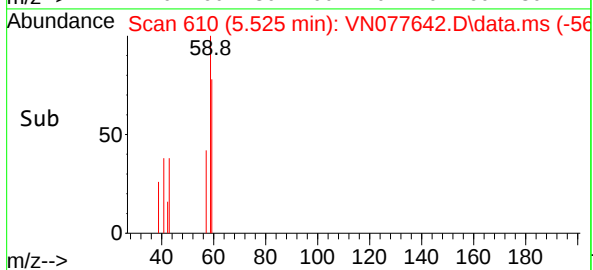
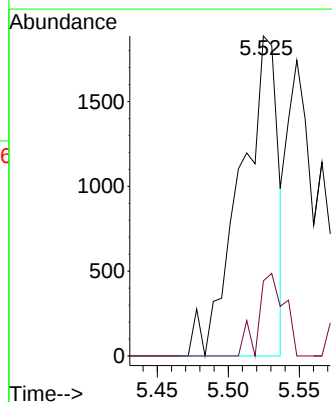
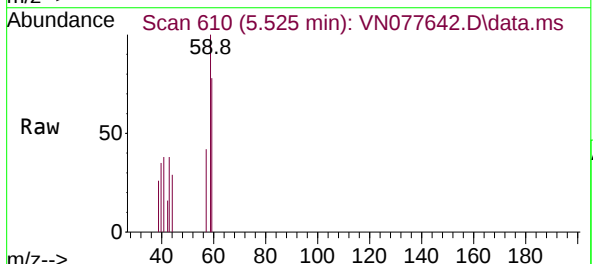
Instrument :
MSVOA_N
ClientSampleId :
CLAY-LINER

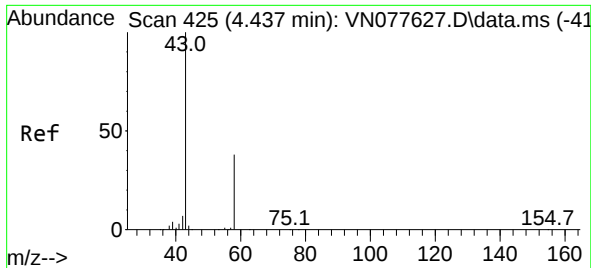
Tgt Ion: 94 Resp: 1442
Ion Ratio Lower Upper
94 100
96 23.8 73.1 109.7#



#11
Tert butyl alcohol
Concen: 3.565 ug/l
RT: 5.525 min Scan# 610
Delta R.T. -0.006 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

Tgt Ion: 59 Resp: 3478
Ion Ratio Lower Upper
59 100
57 17.8 8.2 12.4#





#16

Acetone

Concen: 17.143 ug/l

RT: 4.437 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

Instrument :

MSVOA_N

ClientSampleId :

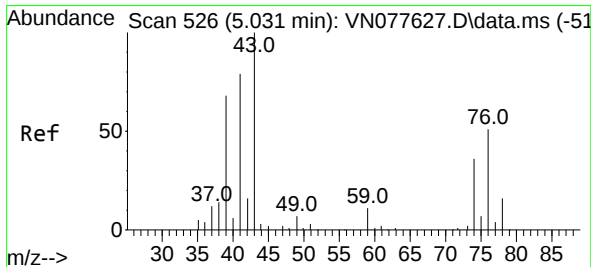
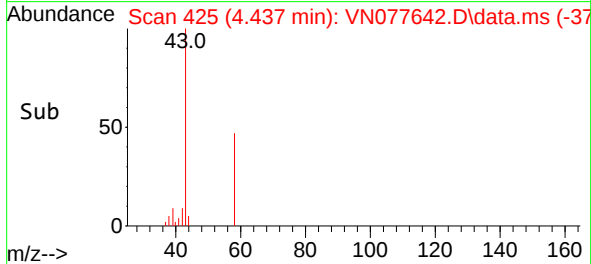
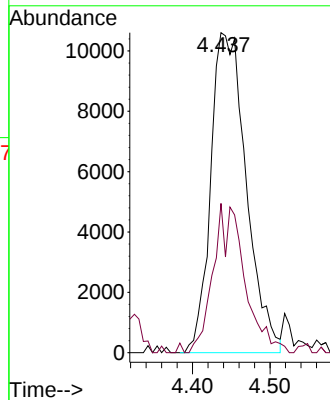
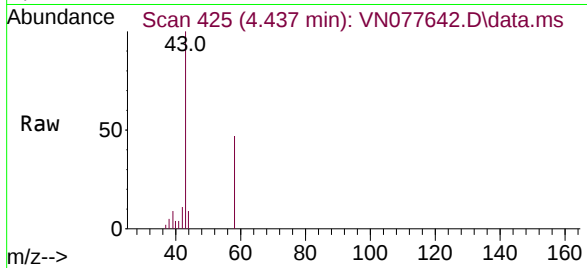
CLAY-LINER

Tgt Ion: 43 Resp: 33765

Ion Ratio Lower Upper

43 100

58 43.8 28.0 42.0#



#18

Methyl Acetate

Concen: 0.563 ug/l

RT: 5.048 min Scan# 529

Delta R.T. 0.017 min

Lab File: VN077642.D

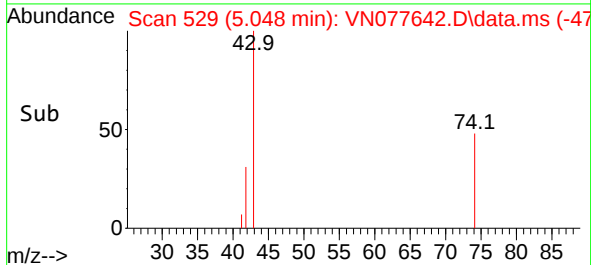
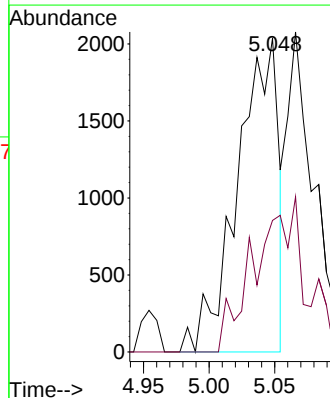
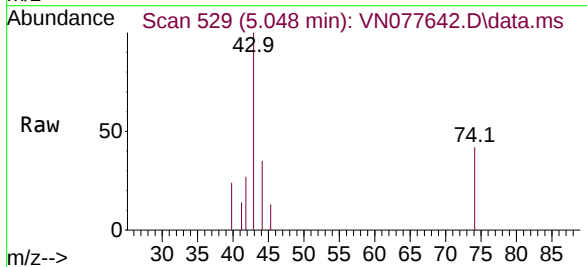
Acq: 09 May 2023 19:20

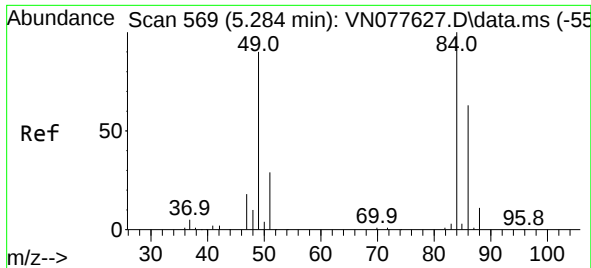
Tgt Ion: 43 Resp: 4397

Ion Ratio Lower Upper

43 100

74 60.2 26.2 39.4#

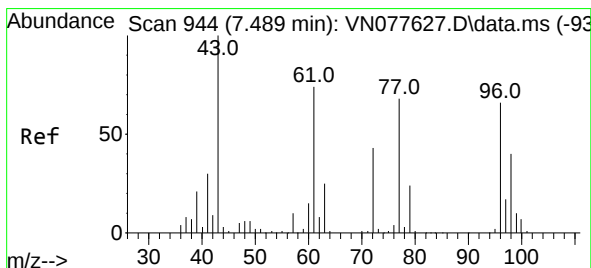
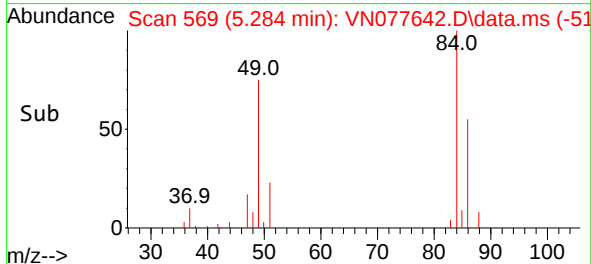
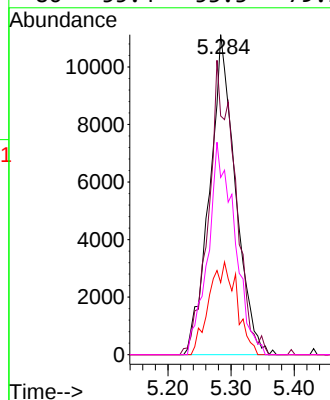
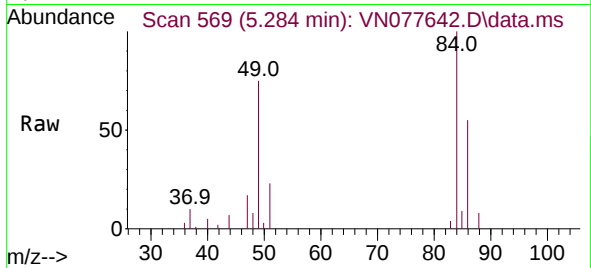




#20
Methylene Chloride
Concen: 3.893 ug/l
RT: 5.284 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

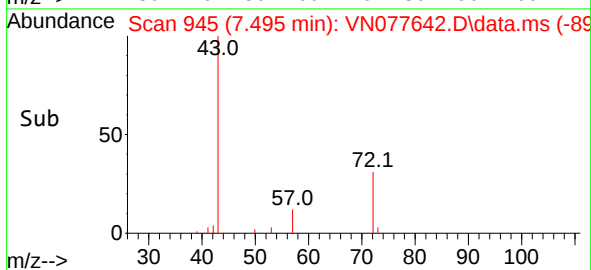
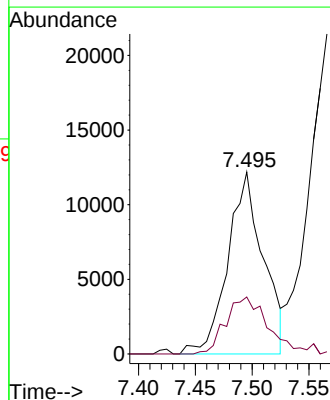
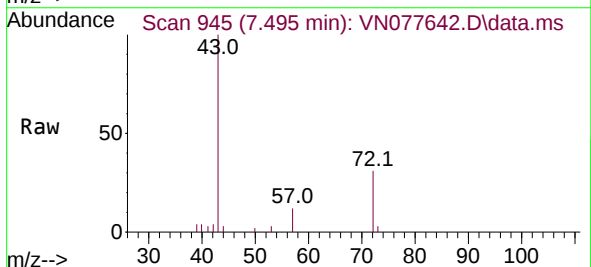
Instrument :
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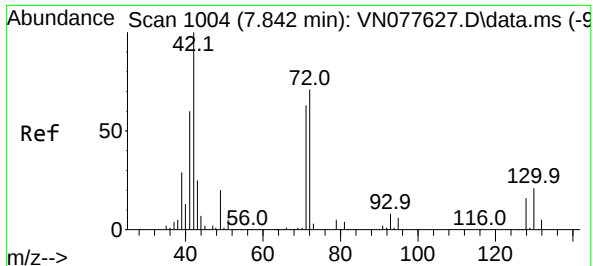
Tgt Ion: 84	Resp: 31774
Ion Ratio	Lower Upper
84 100	
49 74.6	79.7 119.5#
51 22.5	25.2 37.8#
86 55.4	53.3 79.9



#25
2-Butanone
Concen: 9.168 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

Tgt Ion: 43	Resp: 26394
Ion Ratio	Lower Upper
43 100	
72 31.3	30.2 45.2





#29

Tetrahydrofuran

Concen: 0.542 ug/l

RT: 7.854 min Scan# 10

Delta R.T. 0.012 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

Instrument :

MSVOA_N

ClientSampleId :

CLAY-LINER

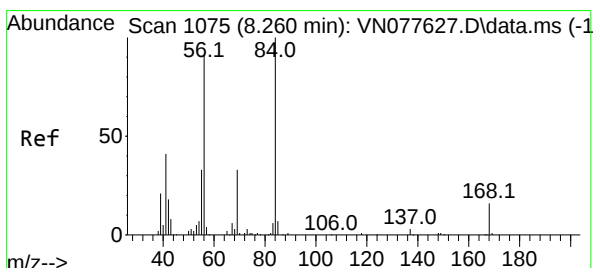
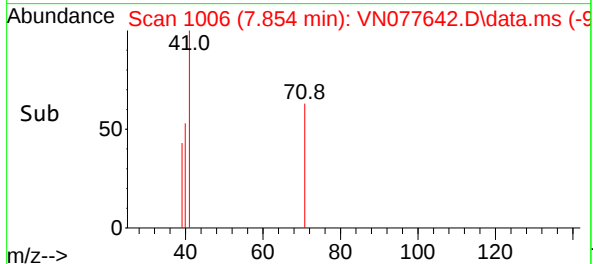
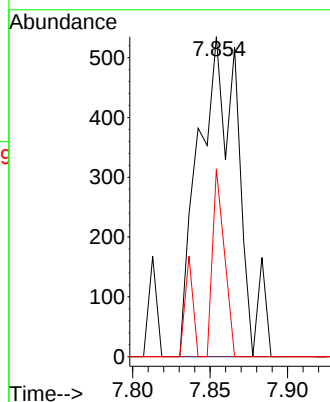
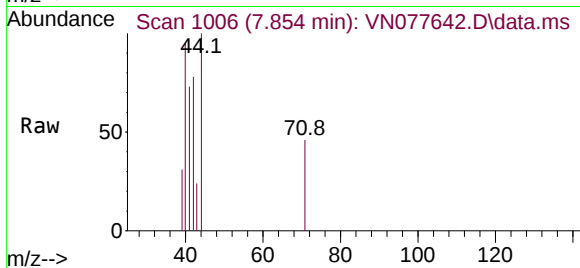
Tgt Ion: 42 Resp: 958

Ion Ratio Lower Upper

42 100

72 0.0 49.8 74.6#

71 17.3 47.4 71.2#



#31

Cyclohexane

Concen: 1.255 ug/l

RT: 8.230 min Scan# 1070

Delta R.T. -0.030 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

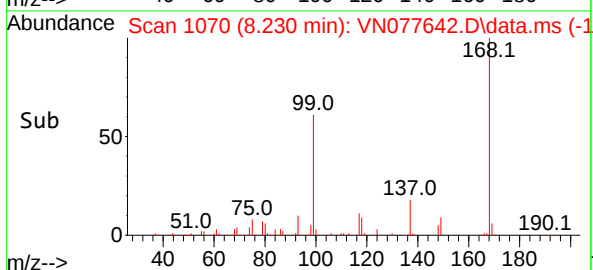
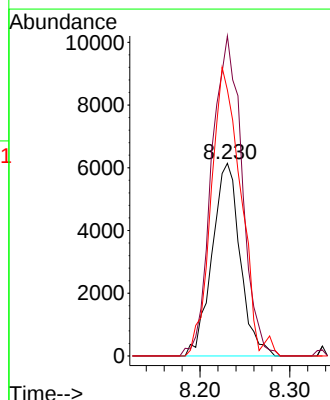
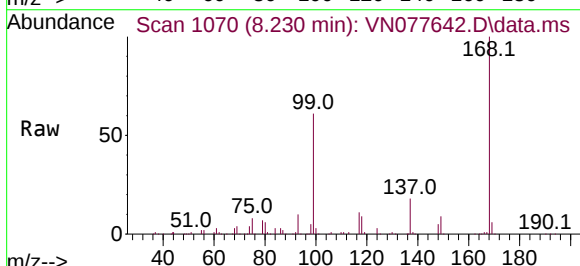
Tgt Ion: 56 Resp: 13303

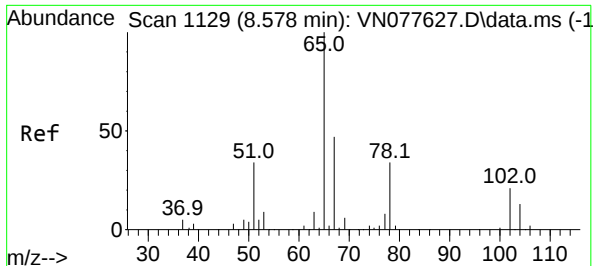
Ion Ratio Lower Upper

56 100

69 166.2 26.8 40.2#

84 138.1 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 48.822 ug/l

RT: 8.583 min Scan# 1129

Delta R.T. 0.005 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

Instrument :

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ClientSampleId :

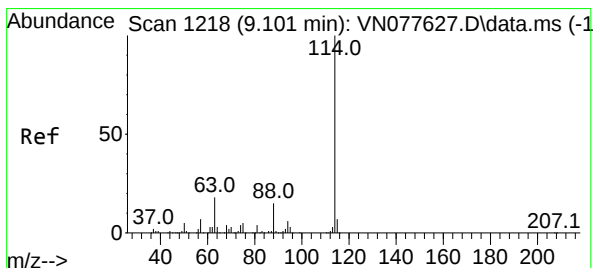
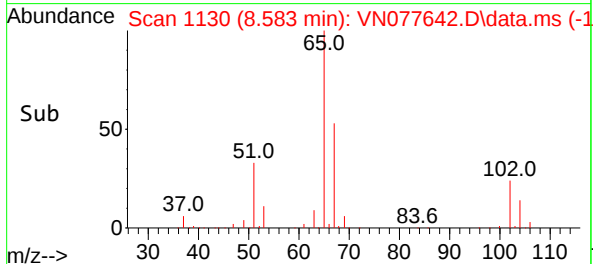
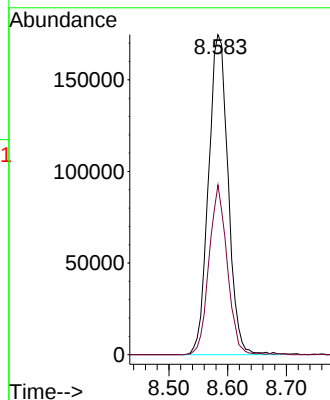
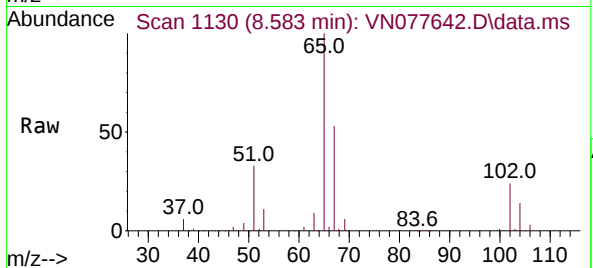
CLAY-LINER

Tgt Ion: 65 Resp: 404945

Ion Ratio Lower Upper

65 100

67 49.1 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.006 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

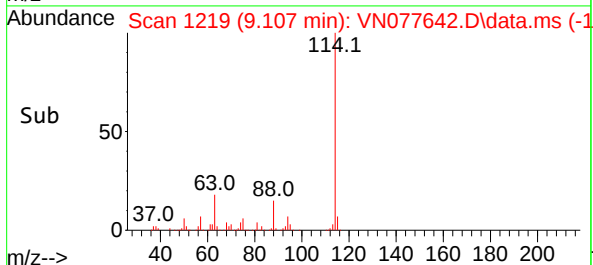
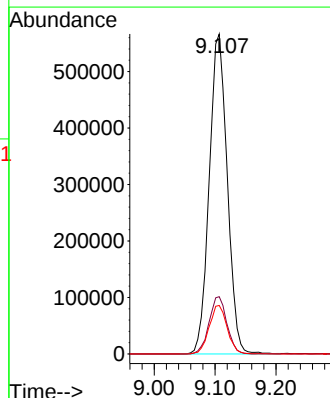
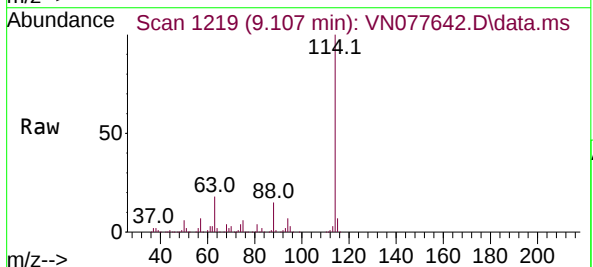
Tgt Ion: 114 Resp: 1166593

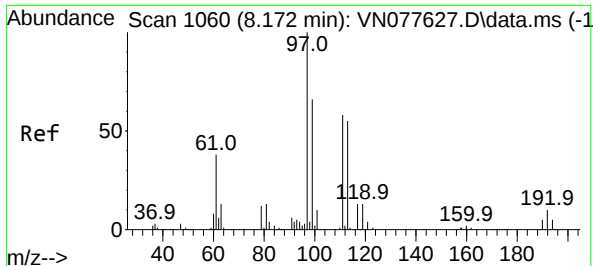
Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.4

88 15.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.494 ug/l

RT: 8.172 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

Instrument :

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ClientSampleId :

CLAY-LINER

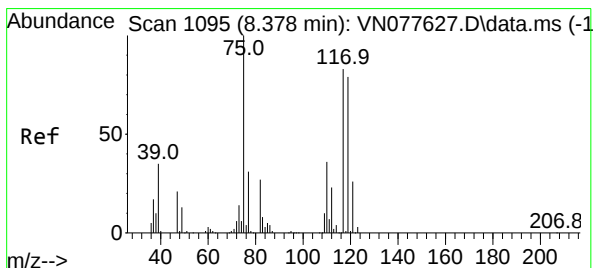
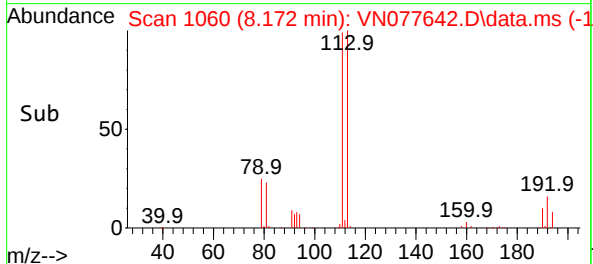
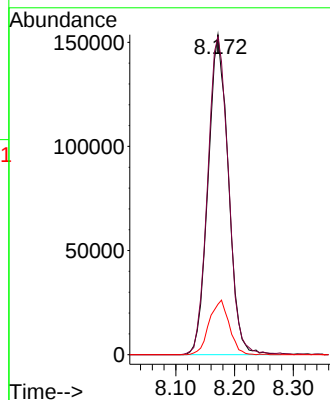
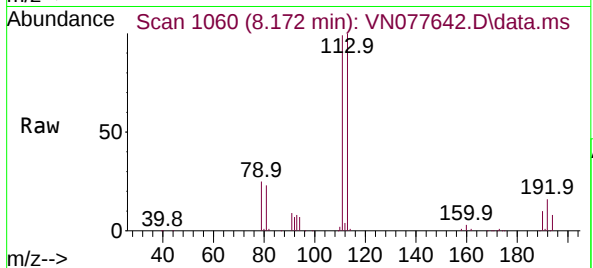
Tgt Ion:113 Resp: 367383

Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

192 16.8 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.219 ug/l

RT: 8.230 min Scan# 1070

Delta R.T. -0.148 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

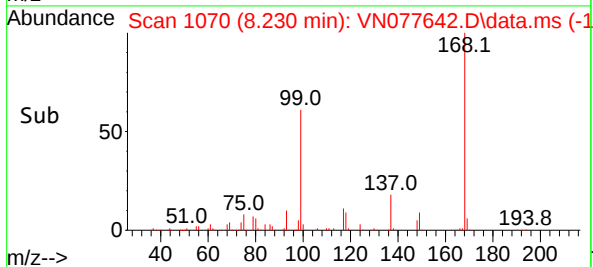
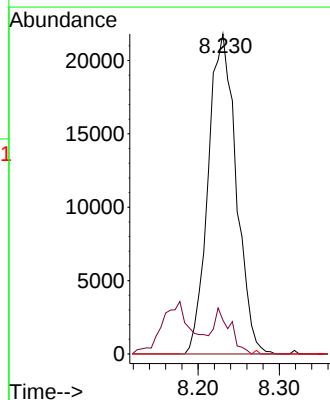
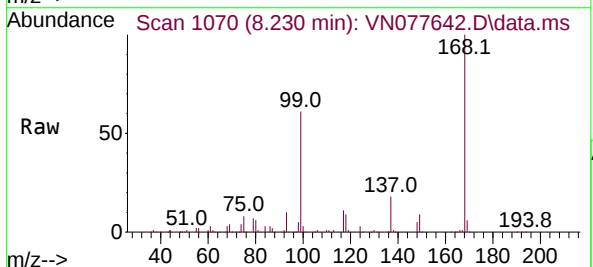
Tgt Ion: 75 Resp: 52398

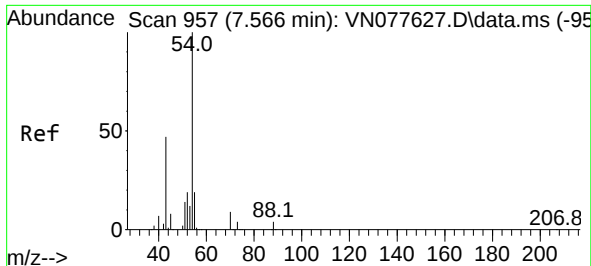
Ion Ratio Lower Upper

75 100

110 8.3 19.1 57.3#

77 0.0 25.0 37.4#

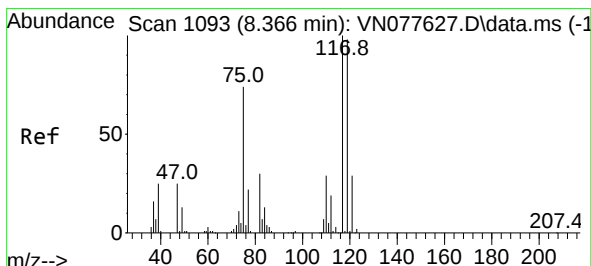
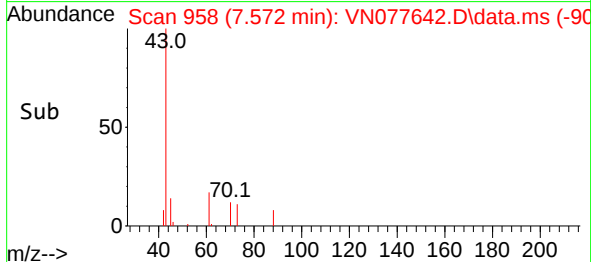
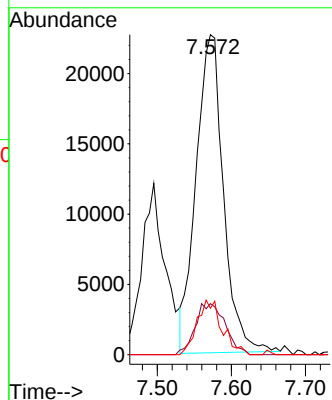
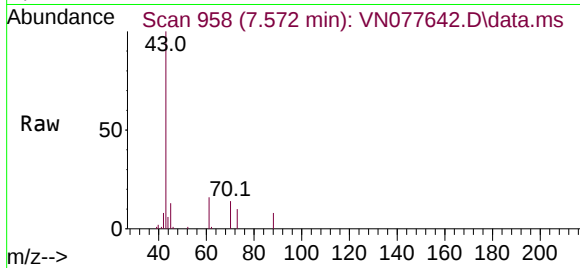




#37
Ethyl Acetate
Concen: 10.124 ug/l
RT: 7.572 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

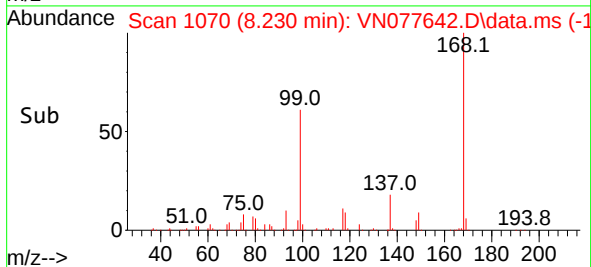
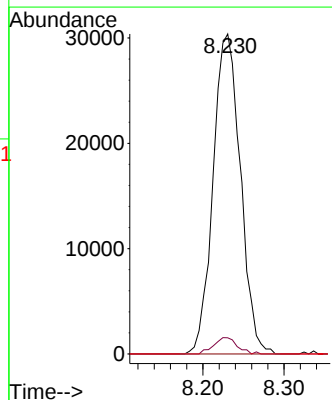
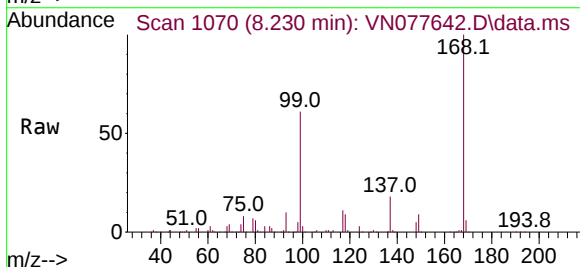
Instrument :
MSVOA_N
ClientSampleId :
CLAY-LINER

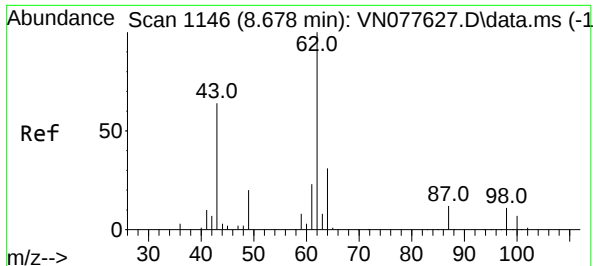
Tgt Ion: 43 Resp: 58124
Ion Ratio Lower Upper
43 100
61 17.6 13.2 19.8
70 15.7 11.3 16.9



#38
Carbon Tetrachloride
Concen: 6.469 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.136 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

Tgt Ion: 117 Resp: 70963
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.274 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. 0.011 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

Instrument :

MSVOA_N

ClientSampleId :

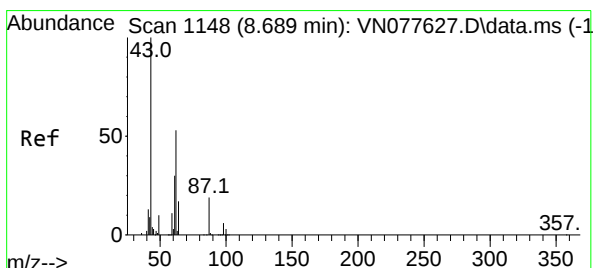
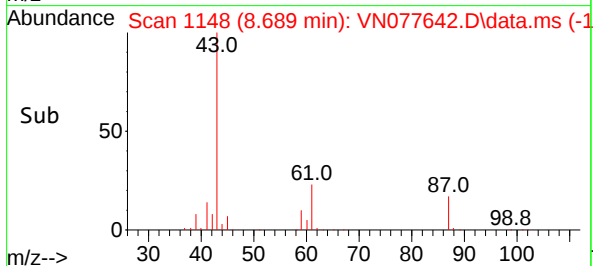
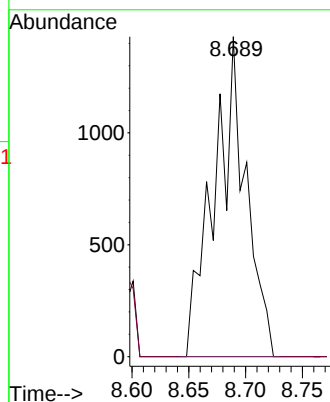
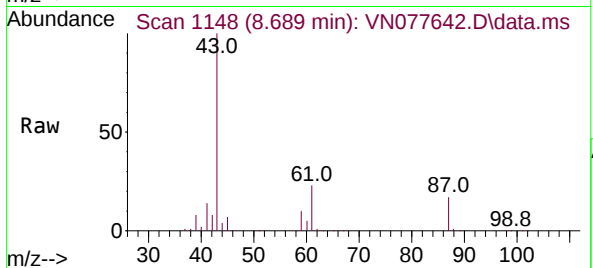
CLAY-LINER

Tgt Ion: 62 Resp: 2786

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 27.720 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. 0.000 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

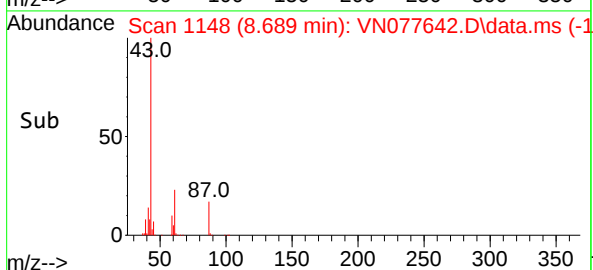
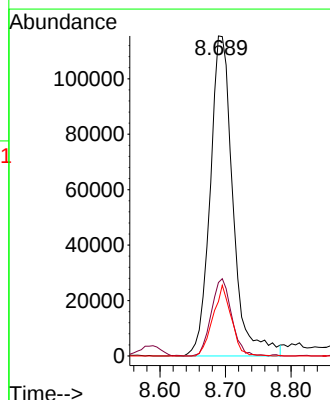
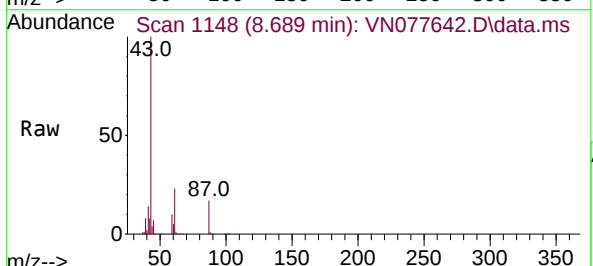
Tgt Ion: 43 Resp: 279037

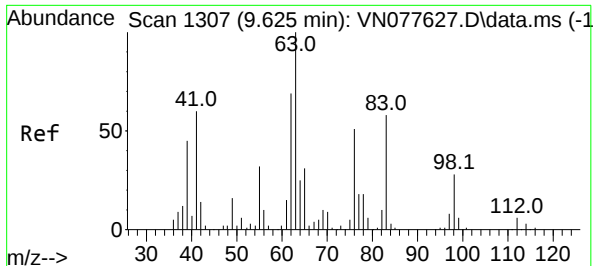
Ion Ratio Lower Upper

43 100

61 21.5 24.7 37.1#

87 17.8 14.6 21.8





#45

1,2-Dichloropropane

Concen: 0.526 ug/l

RT: 9.742 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

Instrument :

MSVOA_N

ClientSampleId :

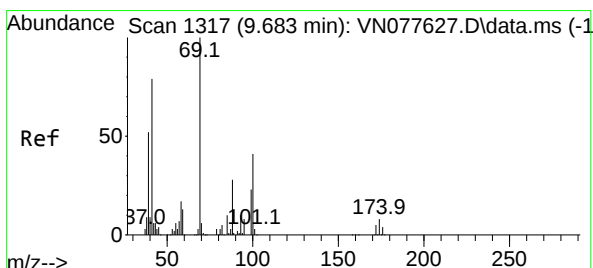
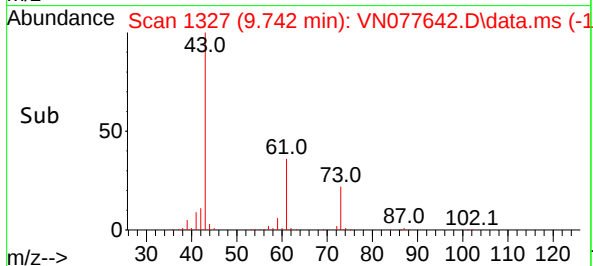
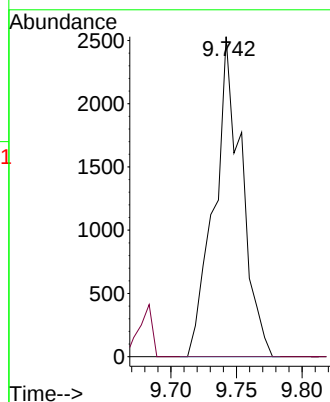
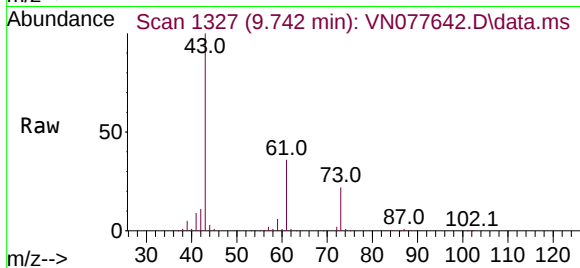
CLAY-LINER

Tgt Ion: 63 Resp: 3671

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 1.611 ug/l

RT: 9.672 min Scan# 1315

Delta R.T. -0.011 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

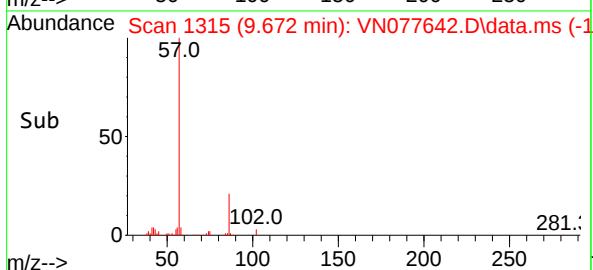
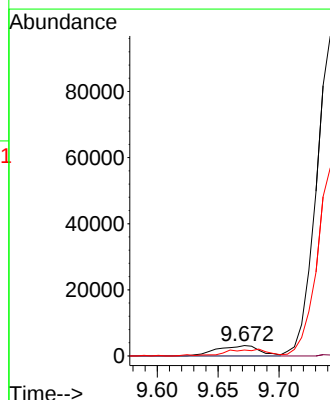
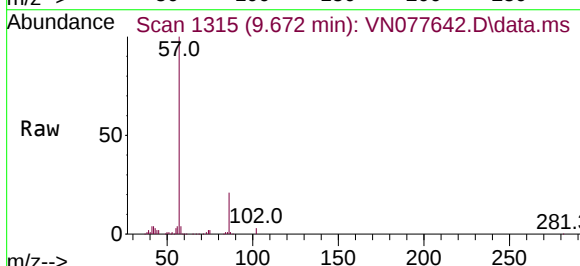
Tgt Ion: 41 Resp: 7609

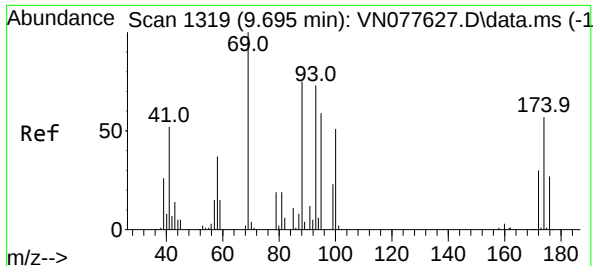
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 53.1 54.6 81.8#

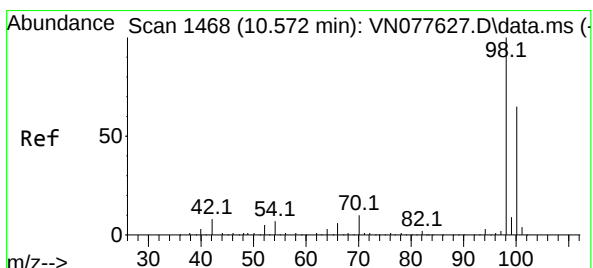
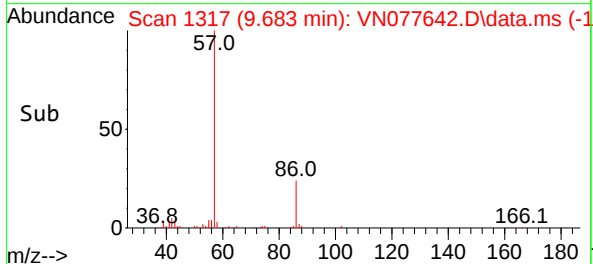
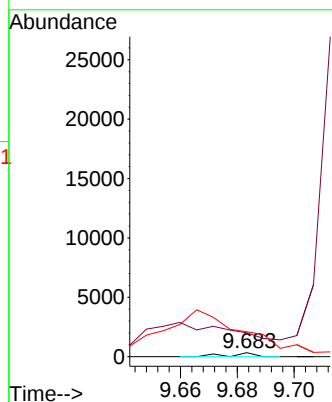
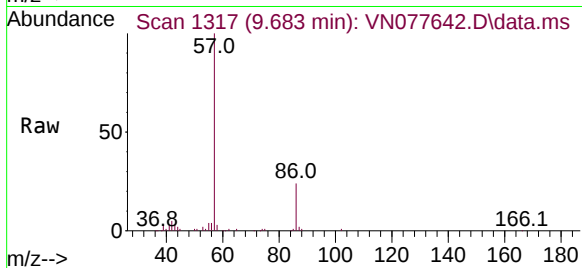




#49
1,4-Dioxane
Concen: 1.409 ug/l
RT: 9.683 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

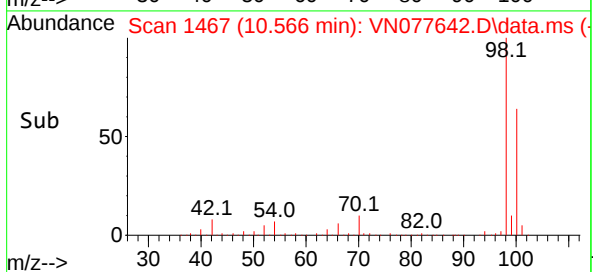
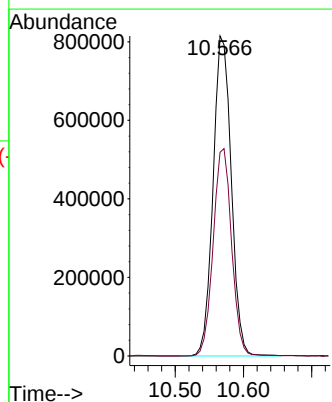
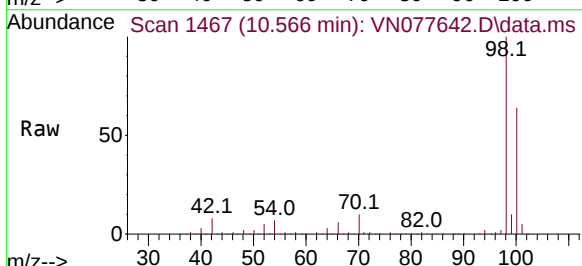
Instrument :
MSVOA_N
ClientSampleId :
CLAY-LINER

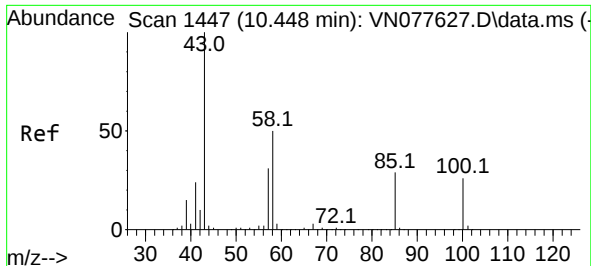
Tgt Ion: 88 Resp: 198
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 4241.4 47.0 70.4#



#50
Toluene-d8
Concen: 54.799 ug/l
RT: 10.566 min Scan# 1467
Delta R.T. -0.006 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

Tgt Ion: 98 Resp: 1509508
Ion Ratio Lower Upper
98 100
100 65.9 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 31.606 ug/l

RT: 10.360 min Scan# 14

Delta R.T. -0.088 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

Instrument :

MSVOA_N

ClientSampleId :

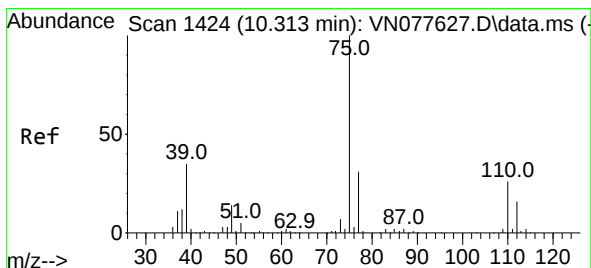
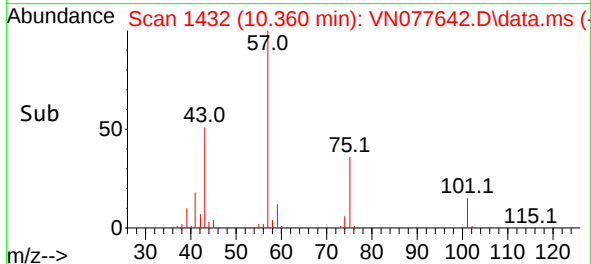
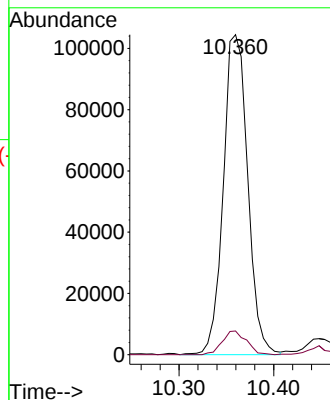
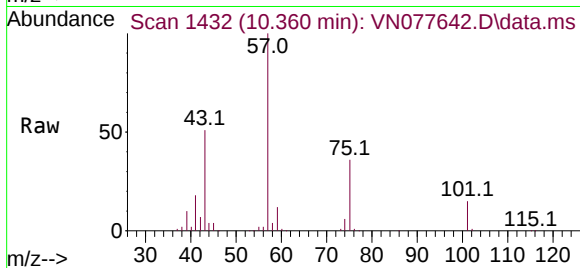
CLAY-LINER

Tgt Ion: 43 Resp: 187169

Ion Ratio Lower Upper

43 100

58 7.4 36.6 54.8#



#54

cis-1,3-Dichloropropene

Concen: 10.329 ug/l

RT: 10.360 min Scan# 1432

Delta R.T. 0.047 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

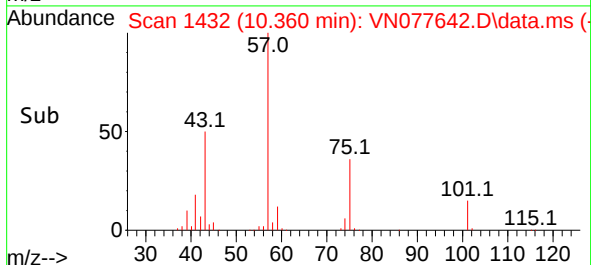
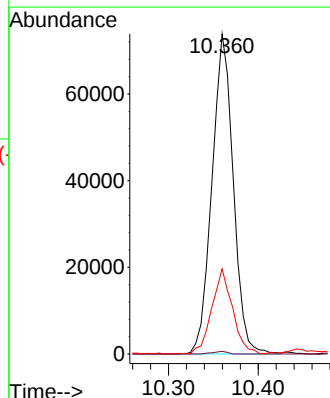
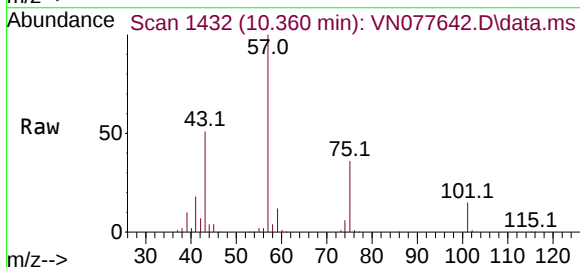
Tgt Ion: 75 Resp: 121492

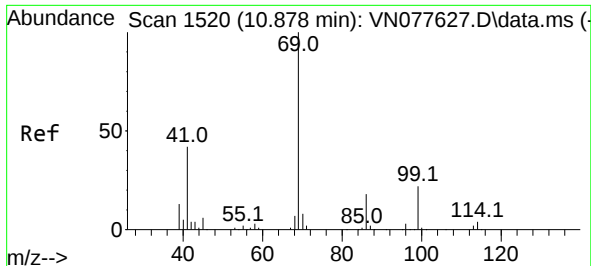
Ion Ratio Lower Upper

75 100

77 0.8 26.1 39.1#

39 26.4 31.6 47.4#

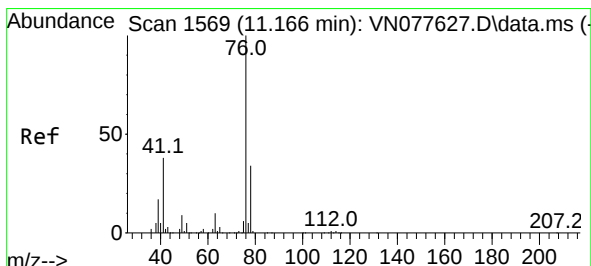
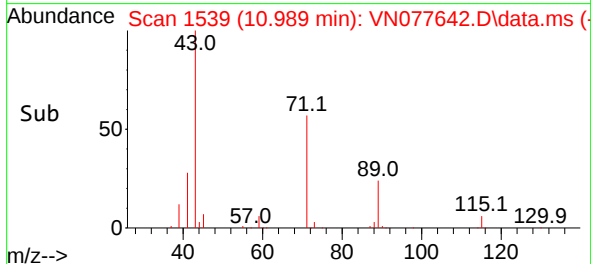
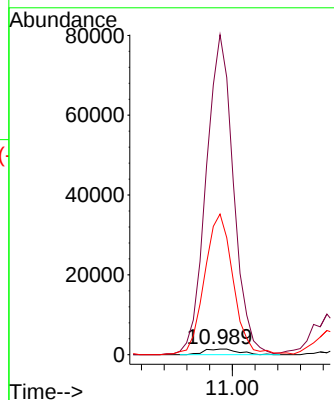
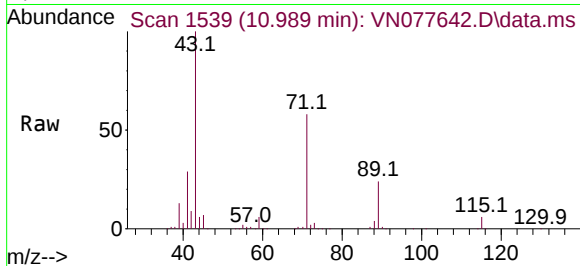




#56
Ethyl methacrylate
Concen: 0.298 ug/l
RT: 10.989 min Scan# 1539
Delta R.T. 0.111 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

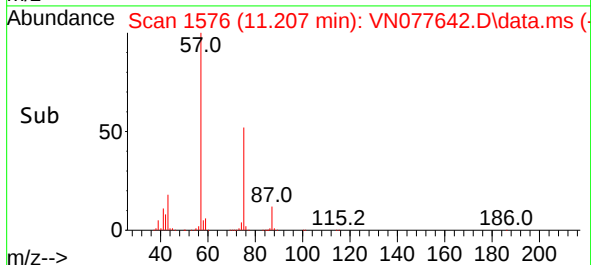
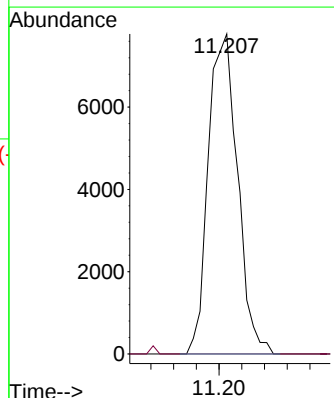
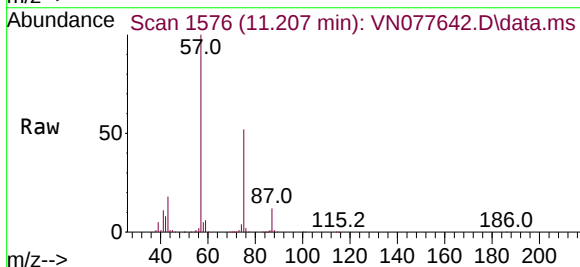
Instrument :
MSVOA_N
ClientSampleId :
CLAY-LINER

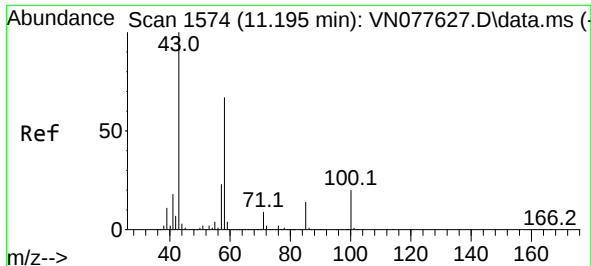
Tgt Ion: 69 Resp: 2948
Ion Ratio Lower Upper
69 100
41 4560.9 39.6 59.4#
39 2087.7 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.106 ug/l
RT: 11.207 min Scan# 1576
Delta R.T. 0.041 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

Tgt Ion: 76 Resp: 13923
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

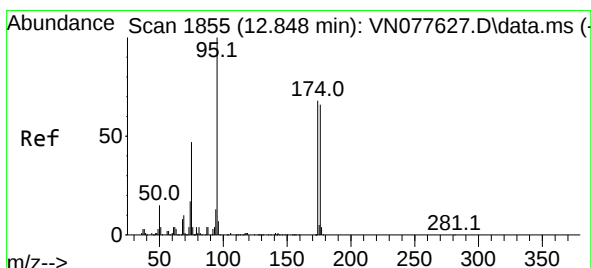
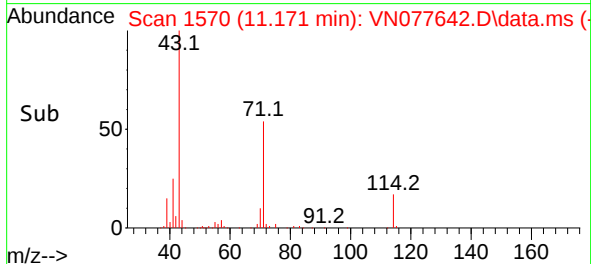
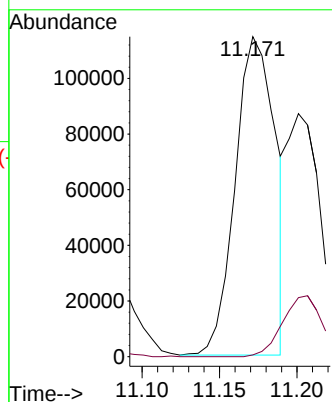
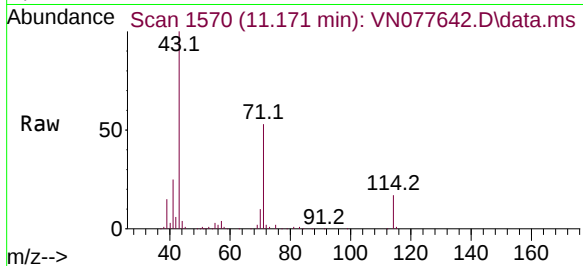




#59
2-Hexanone
Concen: 49.171 ug/l
RT: 11.171 min Scan# 111
Delta R.T. -0.024 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

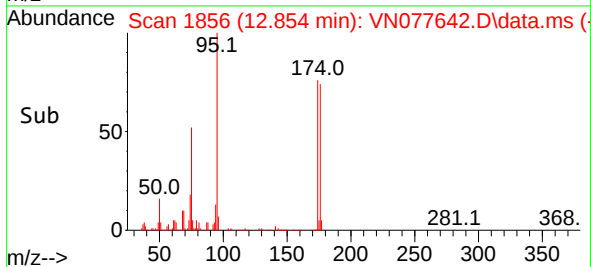
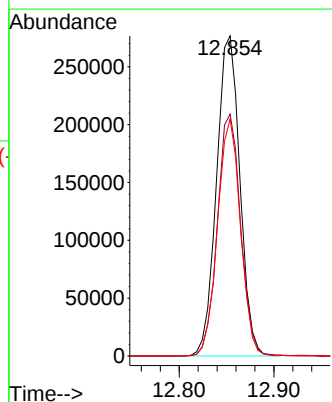
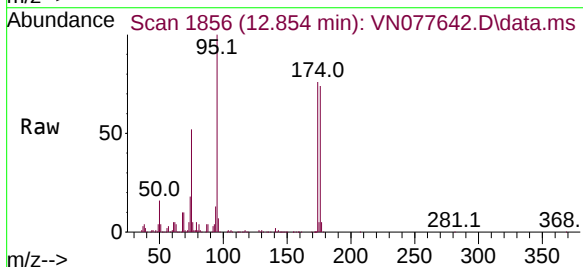
Instrument :
MSVOA_N
ClientSampleId :
CLAY-LINER

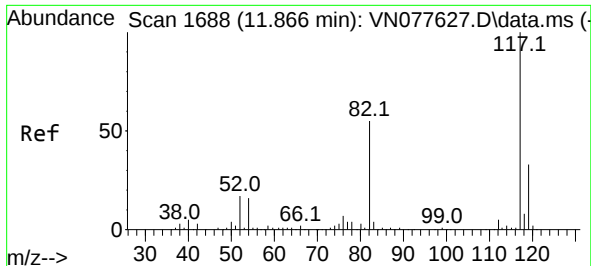
Tgt Ion: 43 Resp: 205801
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 50.955 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

Tgt Ion: 95 Resp: 474741
Ion Ratio Lower Upper
95 100
174 75.3 0.0 143.8
176 72.5 0.0 135.8

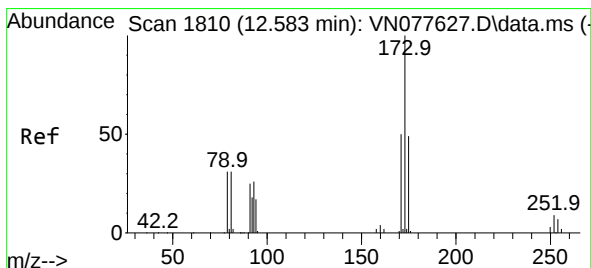
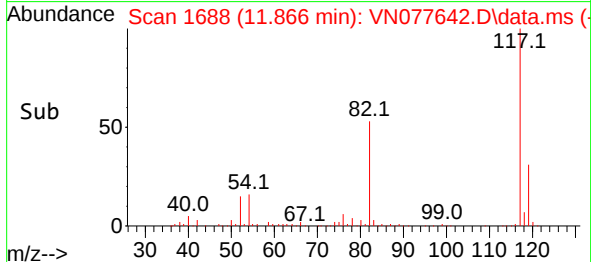
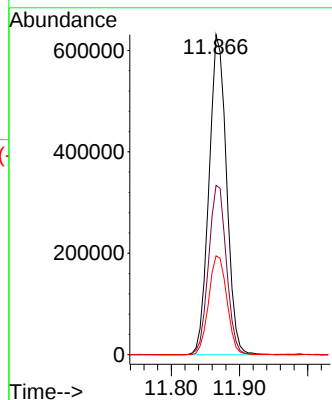
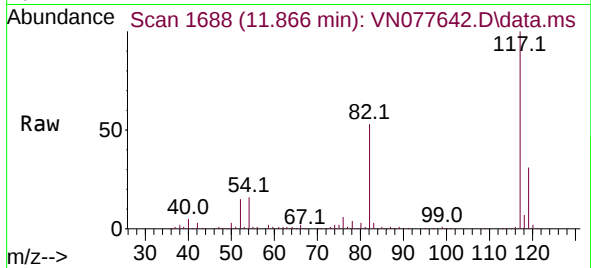




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

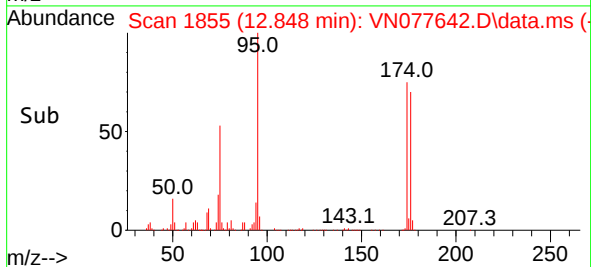
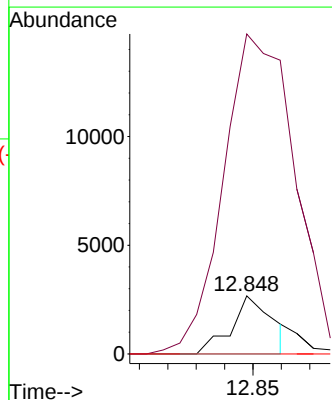
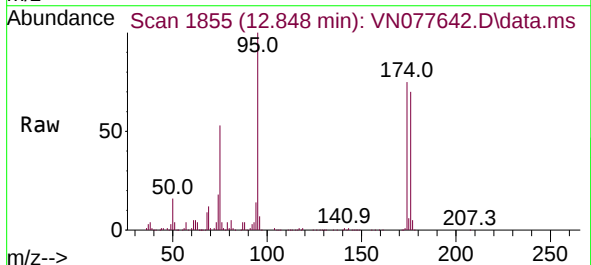
Instrument :
MSVOA_N
ClientSampleId :
CLAY-LINER

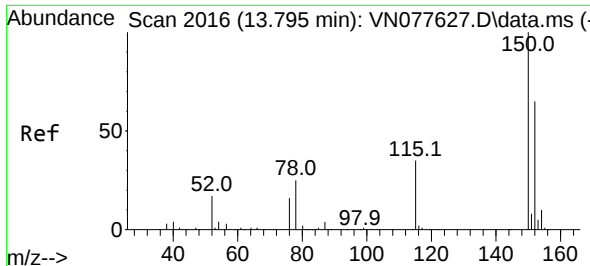
Tgt Ion:117 Resp: 1126525
Ion Ratio Lower Upper
117 100
82 52.9 44.0 66.0
119 30.9 25.6 38.4



#71
Bromoform
Concen: 0.532 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.265 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

Tgt Ion:173 Resp: 2693
Ion Ratio Lower Upper
173 100
175 782.4 24.3 73.0#
254 0.0 0.0 0.0

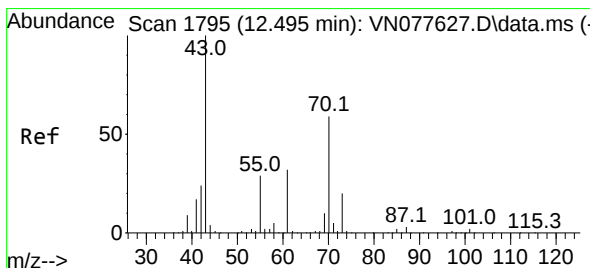
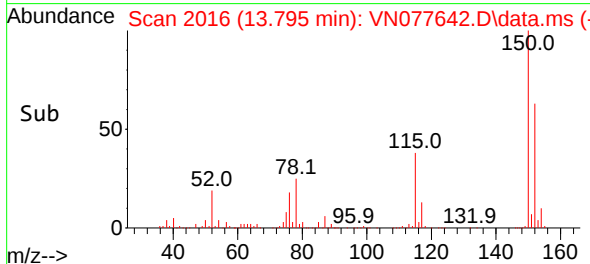
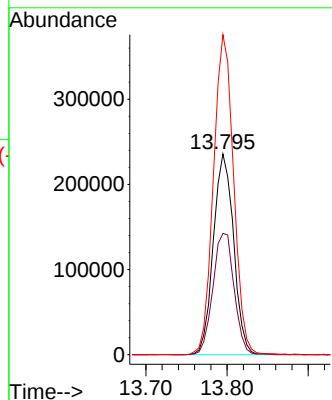
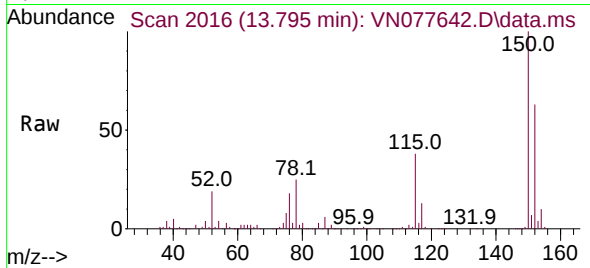




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

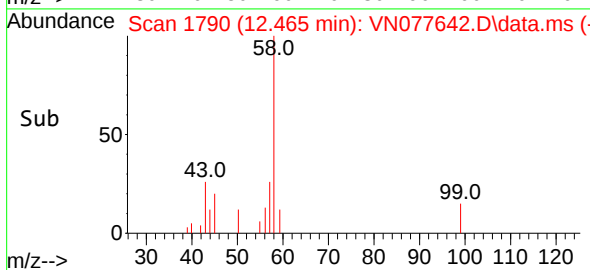
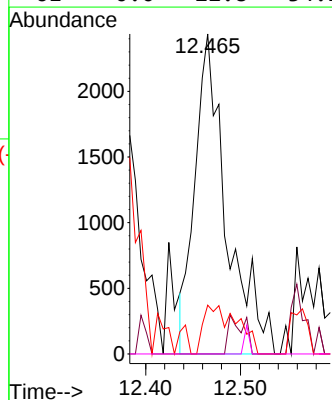
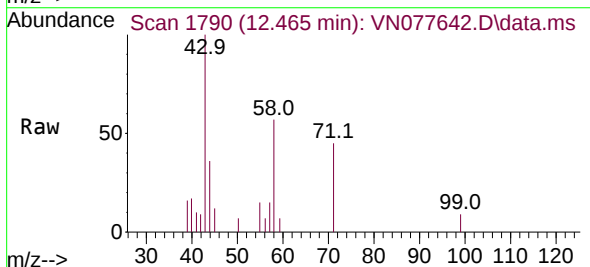
Instrument :
MSVOA_N
ClientSampleId :
CLAY-LINER

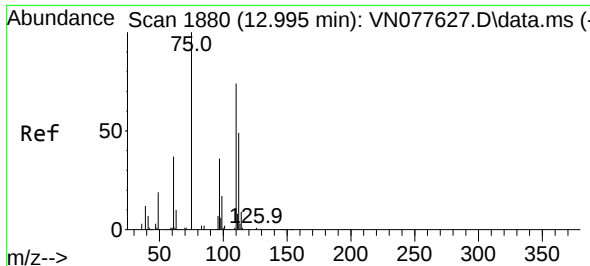
Tgt Ion:152 Resp: 408973
Ion Ratio Lower Upper
152 100
115 63.3 32.3 96.8
150 158.8 0.0 355.8



#74
N-ethyl acetate
Concen: 0.703 ug/l
RT: 12.465 min Scan# 1790
Delta R.T. -0.030 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

Tgt Ion: 43 Resp: 5661
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 16.3 21.4 32.0#
61 0.0 22.8 34.2#

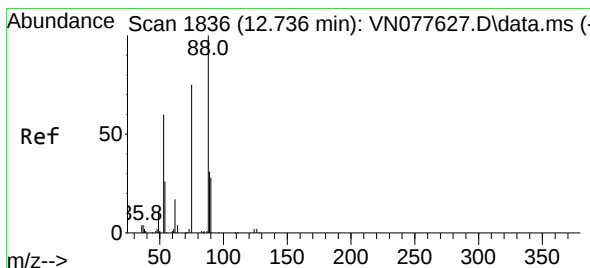
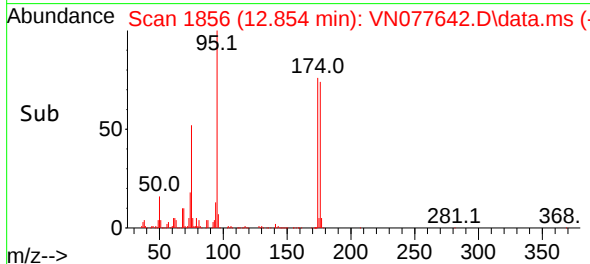
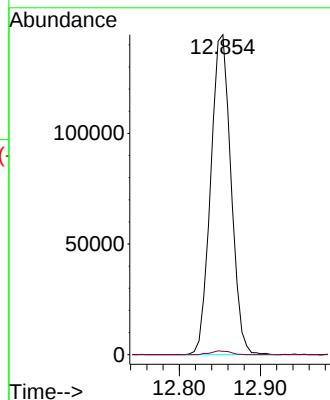
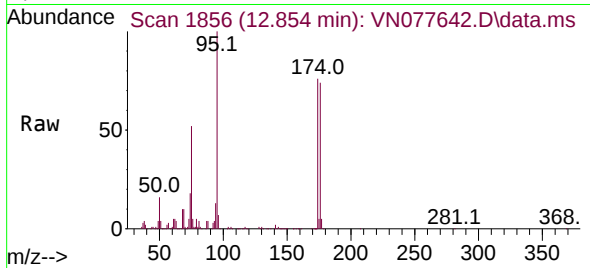




#76
1,2,3-Trichloropropane
Concen: 29.748 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

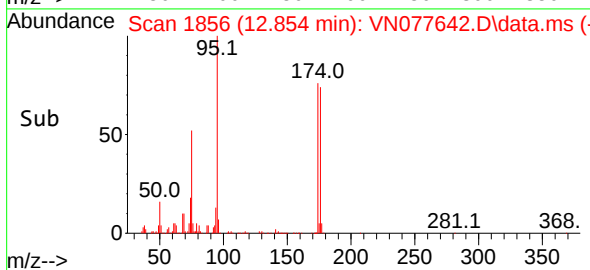
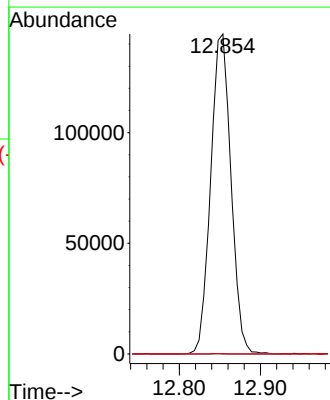
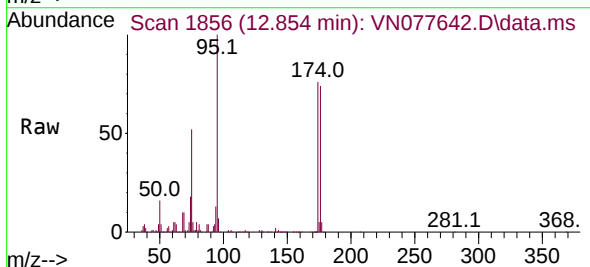
Instrument :
MSVOA_N
ClientSampleId :
CLAY-LINER

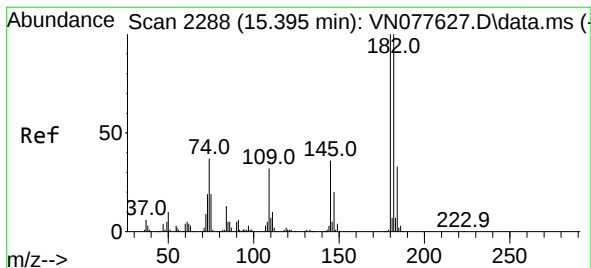
Tgt Ion: 75 Resp: 251068
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 94.722 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077642.D
Acq: 09 May 2023 19:20

Tgt Ion: 75 Resp: 251068
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#





#93

1,2,4-Trichlorobenzene

Concen: 4.591 ug/l

RT: 15.395 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

Instrument :

MSVOA_N

ClientSampleId :

CLAY-LINER

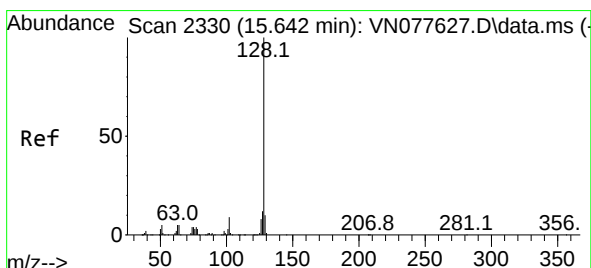
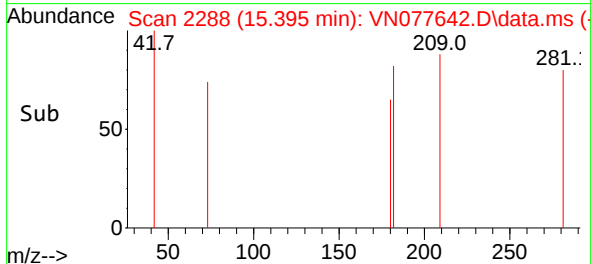
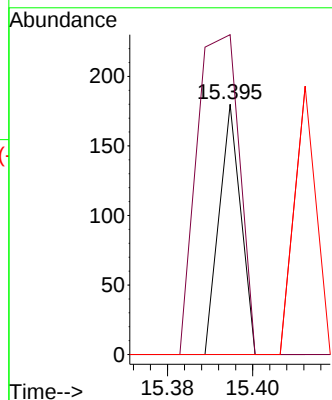
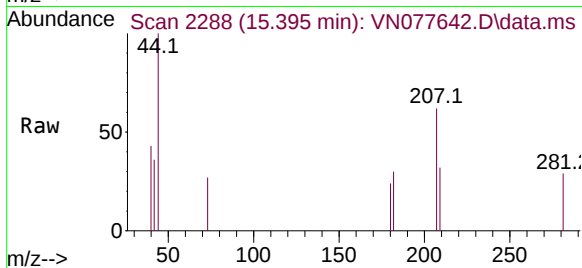
Tgt Ion:180 Resp: 64

Ion Ratio Lower Upper

180 100

182 248.4 46.1 138.2#

145 106.3 16.6 49.8#



#95

Naphthalene

Concen: 4.788 ug/l

RT: 15.642 min Scan# 2330

Delta R.T. -0.000 min

Lab File: VN077642.D

Acq: 09 May 2023 19:20

Tgt Ion:128 Resp: 1133

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#

