

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN083122\
 Data File : VN074225.D
 Acq On : 31 Aug 2022 19:42
 Operator : JC\MD
 Sample : N4445-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MTL-1

Quant Time: Sep 01 00:29:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N083022W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 31 07:02:40 2022
 Response via : Initial Calibration

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

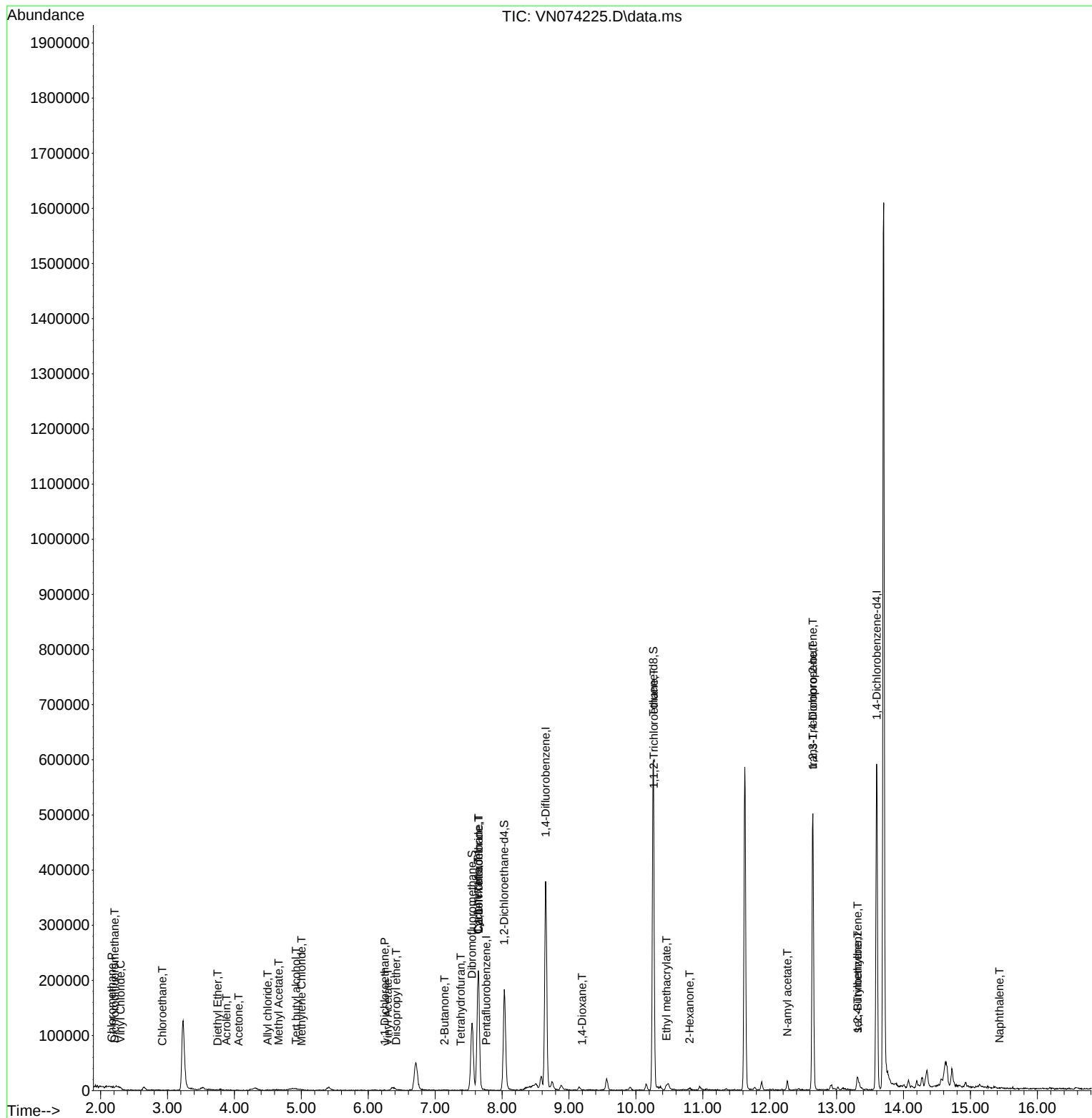
Internal Standards						
1) Pentafluorobenzene	7.763	168	353	50.000	ug/l	#-0.25
34) 1,4-Difluorobenzene	8.651	114	319230	50.000	ug/l	-0.25
63) Chlorobenzene-d5	0.000	117	0	0.000	ug/l	-11.69
72) 1,4-Dichlorobenzene-d4	13.598	152	139344	50.000	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.033	65	150031	27398.384	ug/l	-0.34
Spiked Amount	50.000	Range	74 - 125	Recovery	= 54796.760%#	
35) Dibromofluoromethane	7.551	113	100735	48.493	ug/l	-0.40
Spiked Amount	50.000	Range	75 - 124	Recovery	= 96.980%	
50) Toluene-d8	10.263	98	398779	48.747	ug/l	-0.12
Spiked Amount	50.000	Range	86 - 113	Recovery	= 97.500%	
62) 4-Bromofluorobenzene	12.480	95	107	0.043	ug/l	-0.19
Spiked Amount	50.000	Range	83 - 123	Recovery	= 0.080%#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.210	85	67	18.343	ug/l #	1
3) Chloromethane	2.169	50	214	41.596	ug/l #	40
4) Vinyl Chloride	2.299	62	71	13.888	ug/l #	18
6) Chloroethane	2.922	64	54	14.493	ug/l #	42
8) Diethyl Ether	3.751	74	54	16.248	ug/l #	7
11) Tert butyl alcohol	4.922	59	67	48.097	ug/l #	72
13) Acrolein	3.881	56	58	47.915	ug/l #	16
14) Allyl chloride	4.498	41	57	6.176	ug/l #	1
16) Acetone	4.063	43	206	56.299	ug/l #	42
18) Methyl Acetate	4.663	43	150	14.759	ug/l #	48
20) Methylene Chloride	5.004	84	57	9.840	ug/l #	10
22) Diisopropyl ether	6.416	45	60	3.191	ug/l #	8
23) Vinyl Acetate	6.292	43	81	5.102	ug/l #	68
24) 1,1-Dichloroethane	6.245	63	132	14.230	ug/l #	82
25) 2-Butanone	7.139	43	133	22.722	ug/l #	45
29) Tetrahydrofuran	7.381	42	55	14.754	ug/l #	29
31) Cyclohexane	7.639	56	5034	556.389	ug/l #	69
32) 1,1,1-Trichloroethane	7.651	97	128	17.600	ug/l #	1
38) Carbon Tetrachloride	7.651	117	16968	5.545	ug/l #	18
49) 1,4-Dioxane	9.198	88	55	0.708	ug/l #	1
55) 1,1,2-Trichloroethane	10.269	97	12051	4.466	ug/l #	1
56) Ethyl methacrylate	10.457	69	1363	0.333	ug/l #	1
59) 2-Hexanone	10.804	43	2462	0.590	ug/l	69
74) N-amyl acetate	12.263	43	10022	1.484	ug/l #	44
76) 1,2,3-Trichloropropane	12.645	75	90735	26.309	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.645	75	90735	67.589	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.315	105	6514	0.695	ug/l #	31
85) sec-Butylbenzene	13.315	105	6514	0.559	ug/l #	56
95) Naphthalene	15.433	128	320	1.181	ug/l #	35

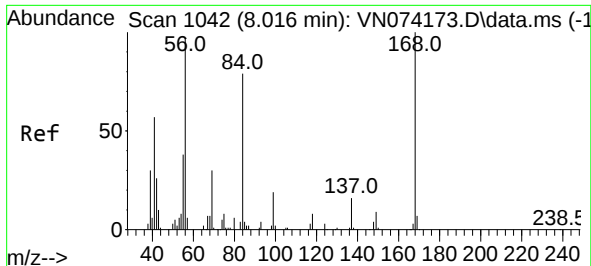
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

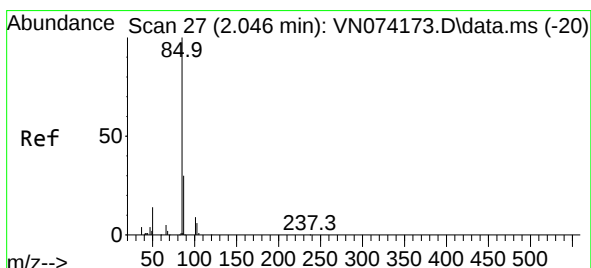
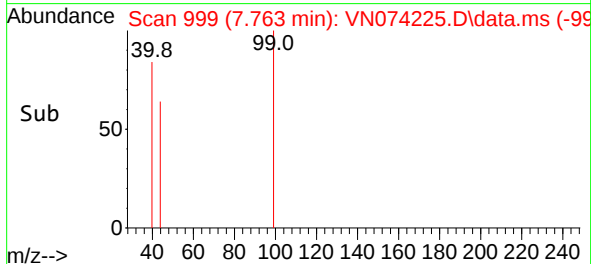
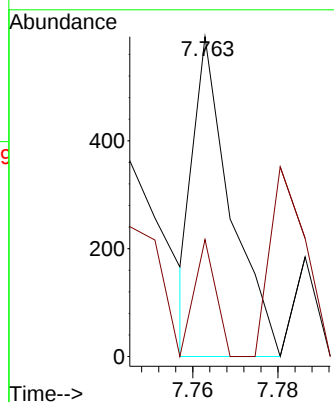
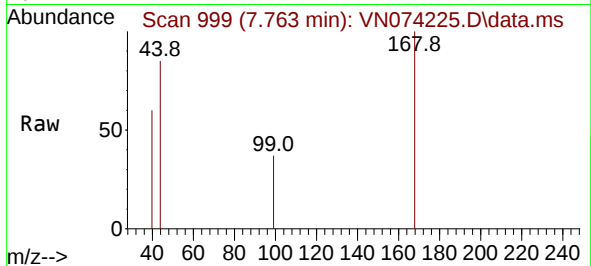




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.763 min Scan# 99
Delta R.T. -0.253 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

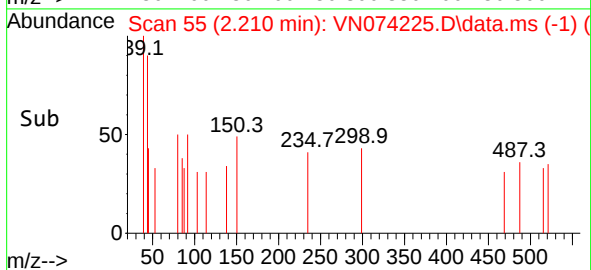
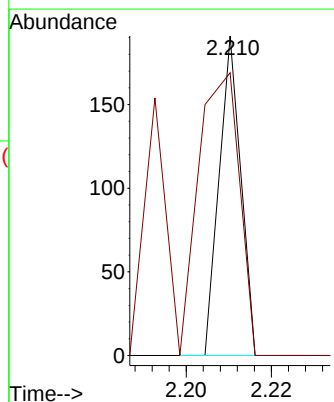
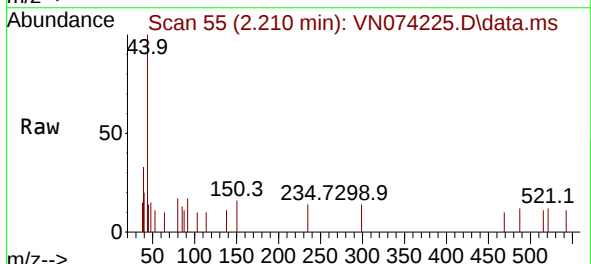
Instrument :
MSVOA_N
ClientSampleId :
MTL-1

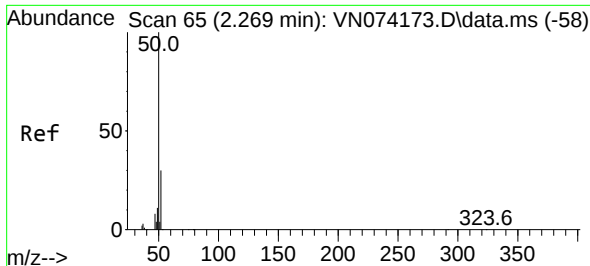
Tgt Ion:168 Resp: 353
Ion Ratio Lower Upper
168 100
99 36.6 42.3 63.5#



#2
Dichlorodifluoromethane
Concen: 18.343 ug/l
RT: 2.210 min Scan# 55
Delta R.T. 0.165 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Tgt Ion: 85 Resp: 67
Ion Ratio Lower Upper
85 100
87 88.5 15.7 47.1#

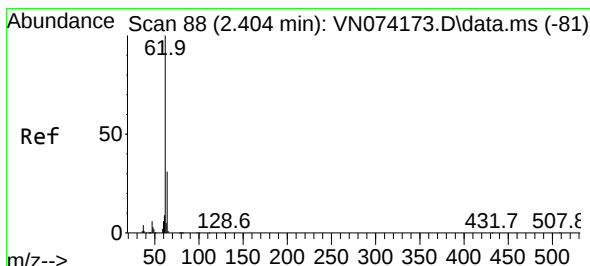
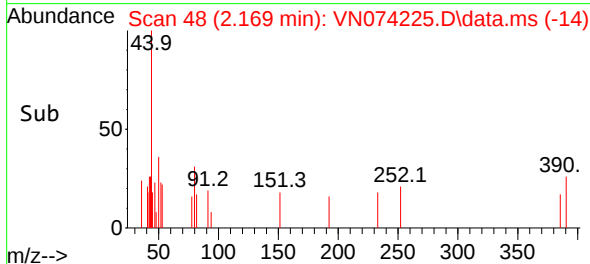
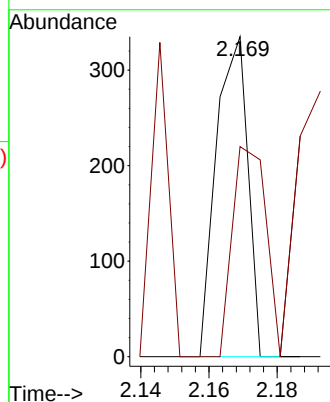
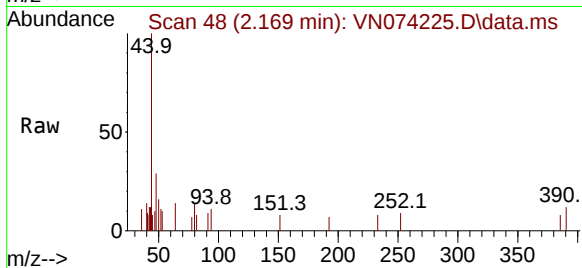




#3
Chloromethane
Concen: 41.596 ug/l
RT: 2.169 min Scan# 41
Delta R.T. -0.100 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

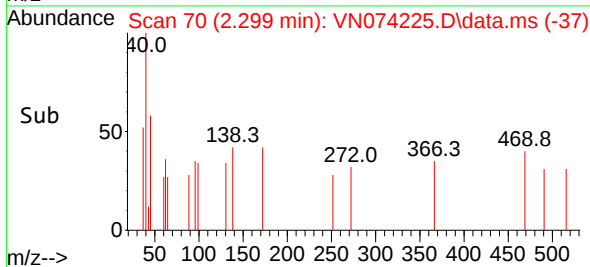
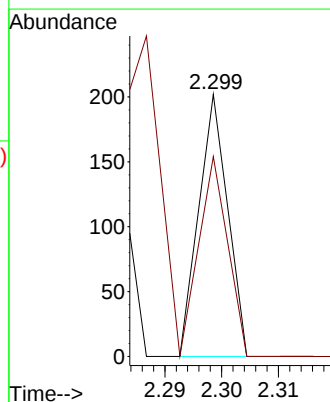
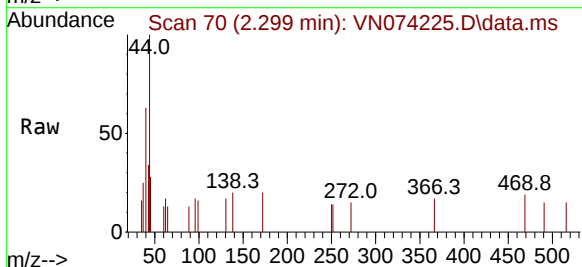
Instrument :
MSVOA_N
ClientSampleId :
MTL-1

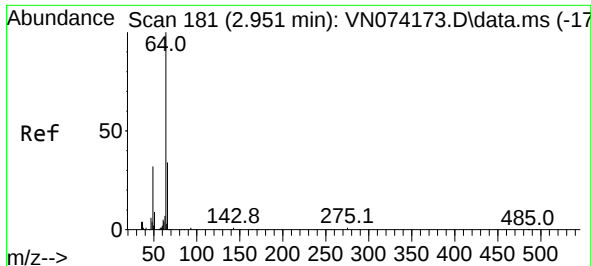
Tgt Ion: 50 Resp: 214
Ion Ratio Lower Upper
50 100
52 65.7 25.7 38.5#



#4
Vinyl Chloride
Concen: 13.888 ug/l
RT: 2.299 min Scan# 70
Delta R.T. -0.106 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Tgt Ion: 62 Resp: 71
Ion Ratio Lower Upper
62 100
64 76.2 25.0 37.4#

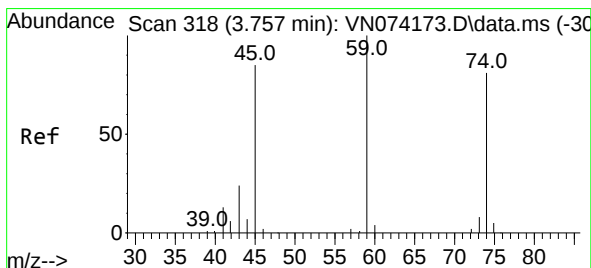
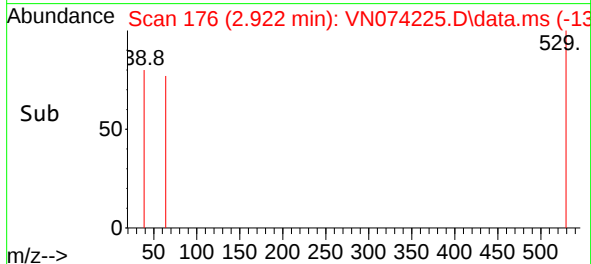
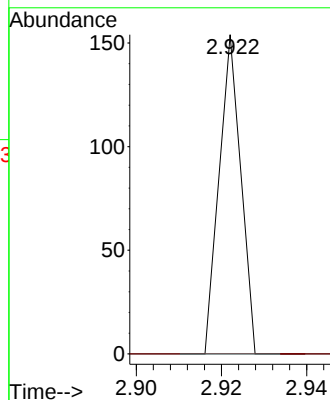
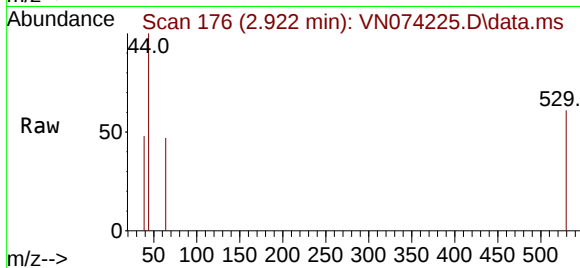




#6
Chloroethane
Concen: 14.493 ug/l
RT: 2.922 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

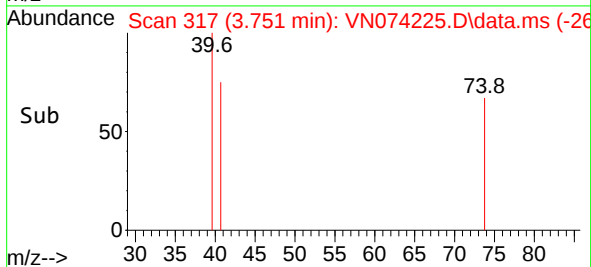
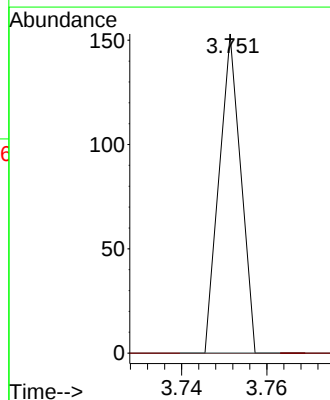
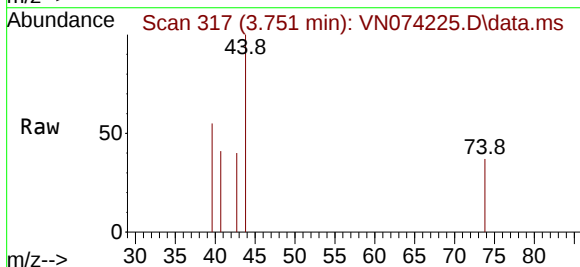
Instrument :
MSVOA_N
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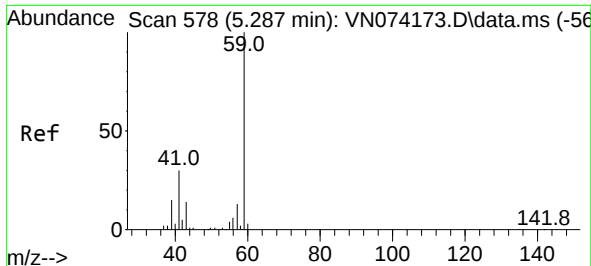
Tgt Ion: 64 Resp: 54
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#8
Diethyl Ether
Concen: 16.248 ug/l
RT: 3.751 min Scan# 317
Delta R.T. -0.006 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Tgt Ion: 74 Resp: 54
Ion Ratio Lower Upper
74 100
45 0.0 42.9 128.5#

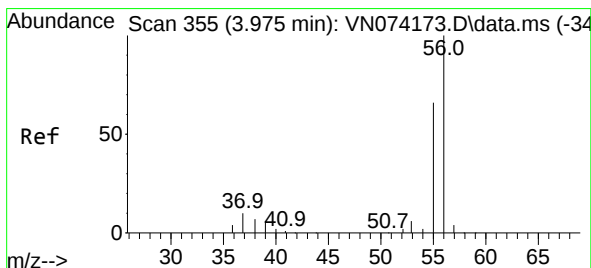
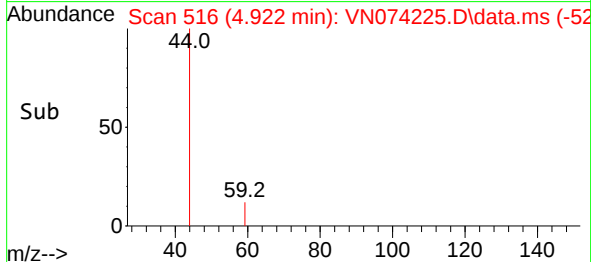
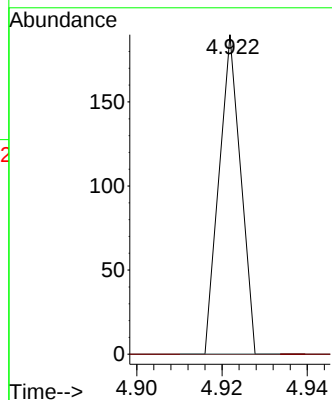
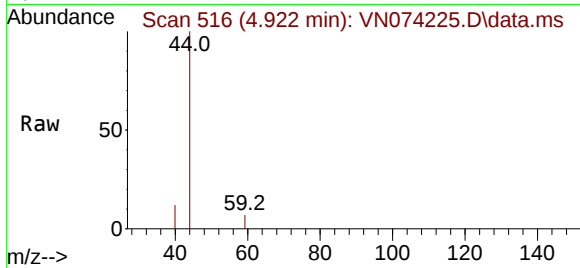




#11
Tert butyl alcohol
Concen: 48.097 ug/l
RT: 4.922 min Scan# 516
Delta R.T. -0.365 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

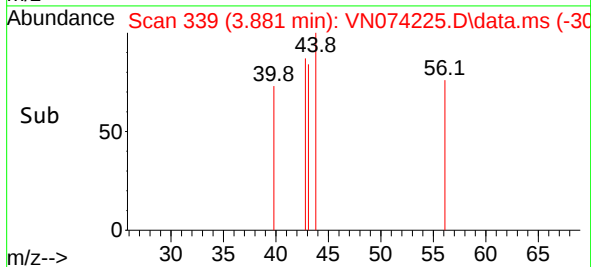
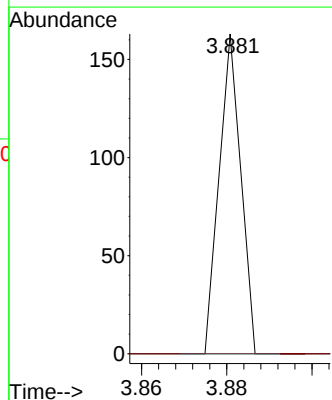
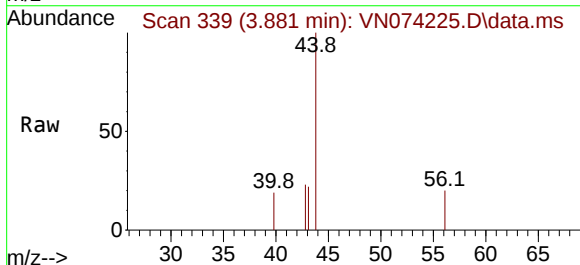
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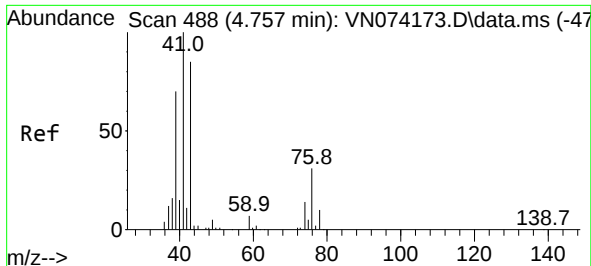
Tgt Ion: 59 Resp: 67
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 47.915 ug/l
RT: 3.881 min Scan# 339
Delta R.T. -0.094 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Tgt Ion: 56 Resp: 58
Ion Ratio Lower Upper
56 100
55 0.0 54.8 82.2#

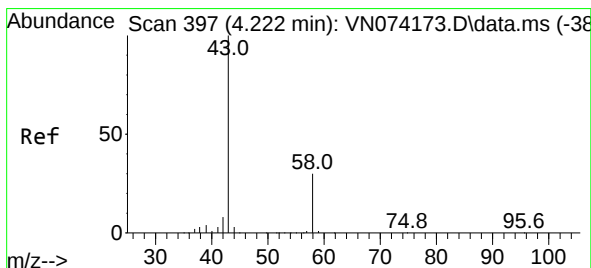
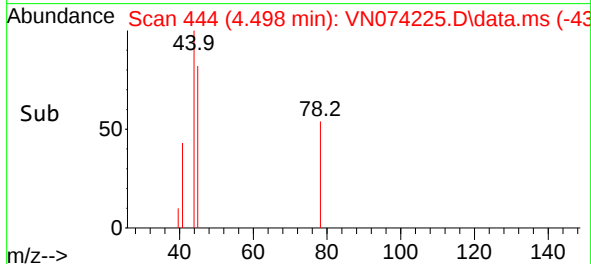
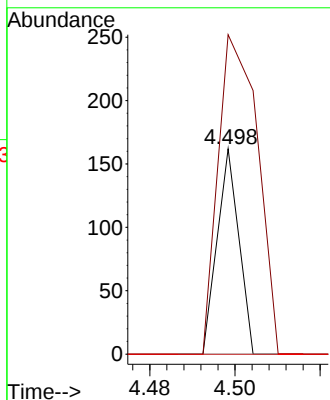
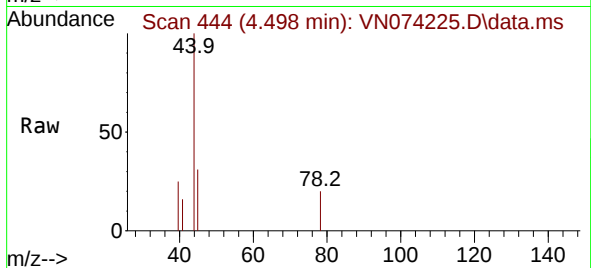




#14
 Allyl chloride
 Concen: 6.176 ug/l
 RT: 4.498 min Scan# 41
 Delta R.T. -0.259 min
 Lab File: VN074225.D
 Acq: 31 Aug 2022 19:42

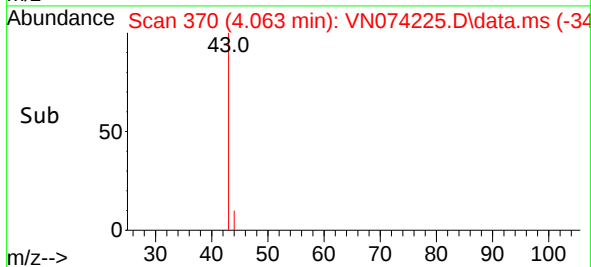
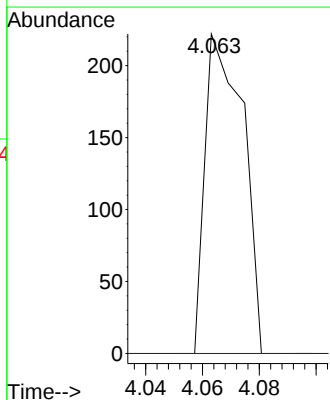
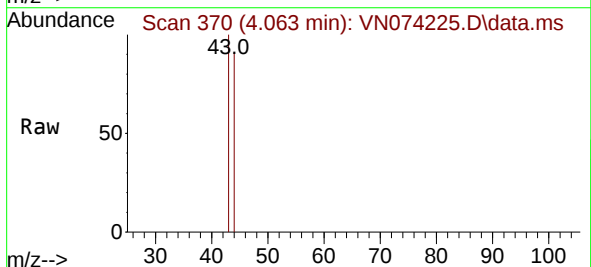
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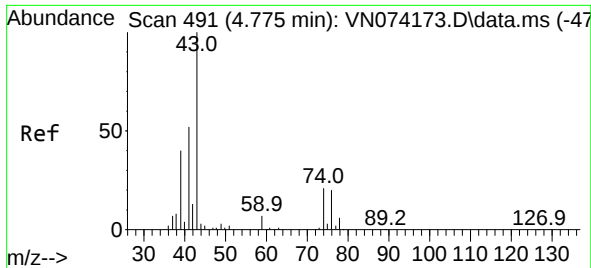
Tgt Ion: 41 Resp: 57
 Ion Ratio Lower Upper
 41 100
 39 284.2 53.2 79.8#
 76 0.0 29.9 44.9#



#16
 Acetone
 Concen: 56.299 ug/l
 RT: 4.063 min Scan# 370
 Delta R.T. -0.159 min
 Lab File: VN074225.D
 Acq: 31 Aug 2022 19:42

Tgt Ion: 43 Resp: 206
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.0 39.0#

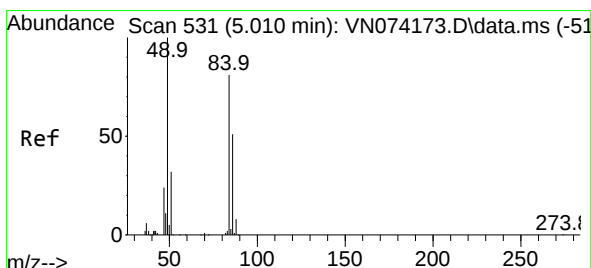
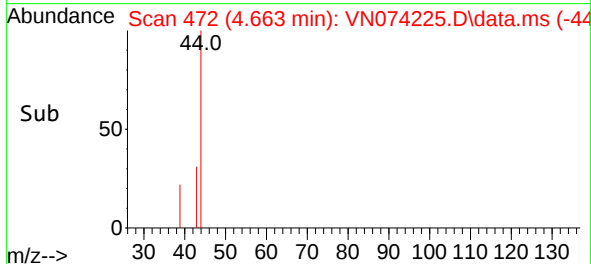
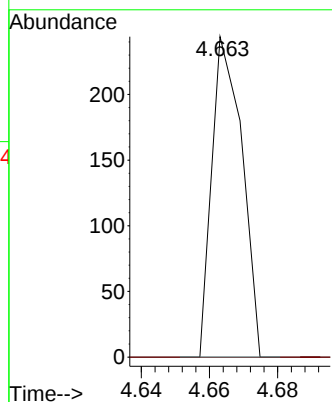
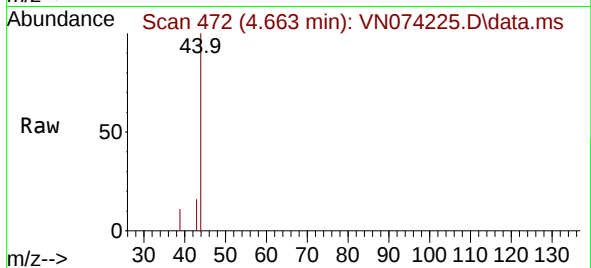




#18
Methyl Acetate
Concen: 14.759 ug/l
RT: 4.663 min Scan# 41
Delta R.T. -0.112 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

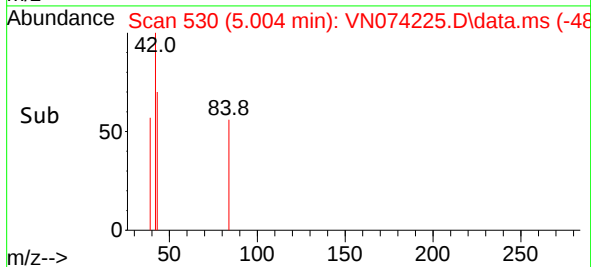
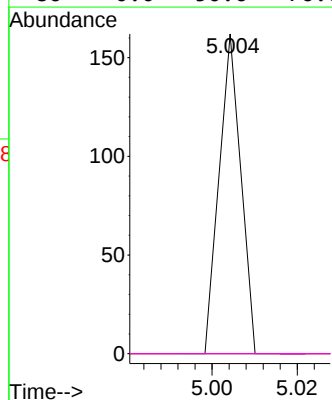
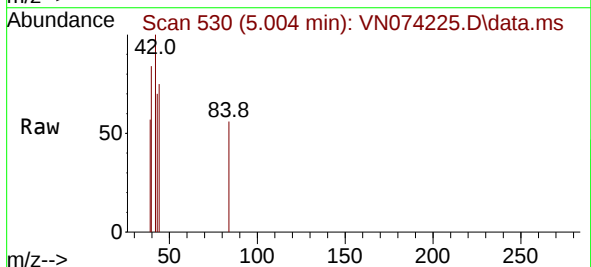
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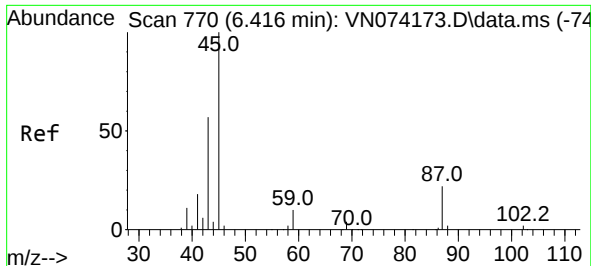
Tgt Ion: 43 Resp: 150
Ion Ratio Lower Upper
43 100
74 0.0 21.6 32.4#



#20
Methylene Chloride
Concen: 9.840 ug/l
RT: 5.004 min Scan# 530
Delta R.T. -0.006 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

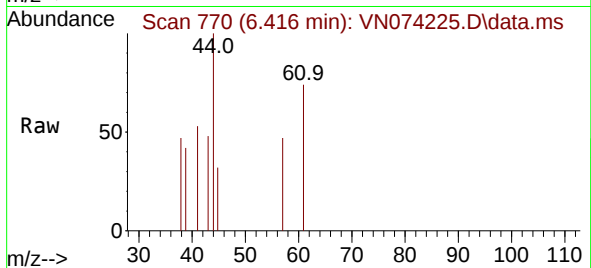
Tgt Ion: 84 Resp: 57
Ion Ratio Lower Upper
84 100
49 0.0 88.3 132.5#
51 0.0 28.2 42.2#
86 0.0 50.6 76.0#



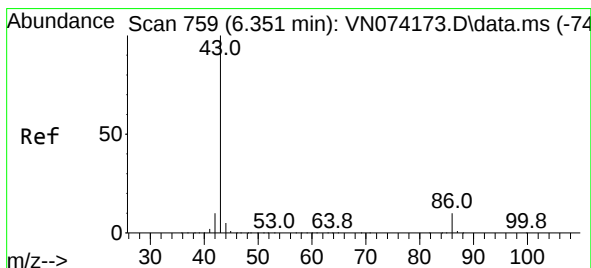
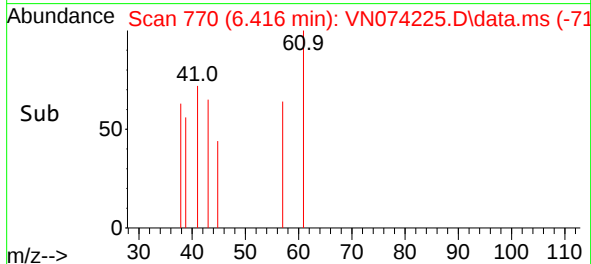
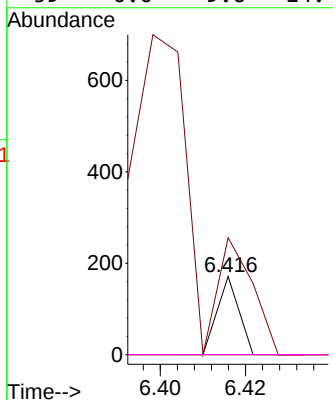


#22
Diisopropyl ether
Concen: 3.191 ug/l
RT: 6.416 min Scan# 770
Delta R.T. -0.000 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Instrument :
MSVOA_N
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MTL-1

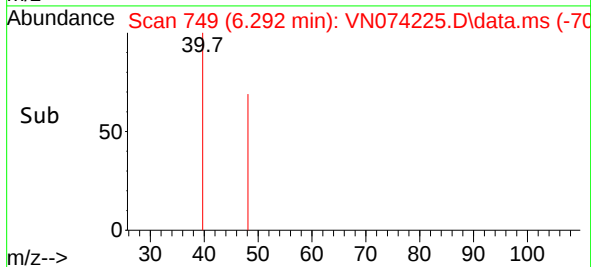
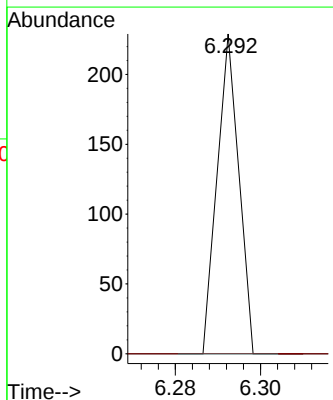
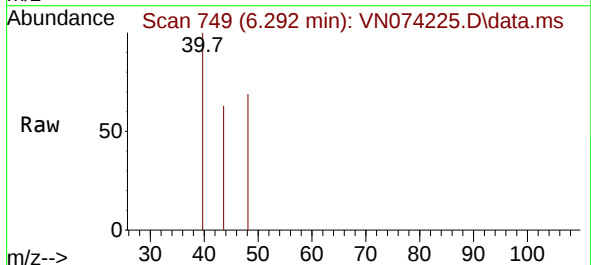


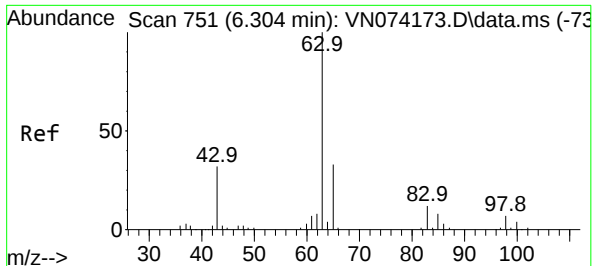
Tgt Ion	Ratio	Lower	Upper
45	100		
43	149.7	46.6	70.0#
87	0.0	24.3	36.5#
59	0.0	9.6	14.4#



#23
Vinyl Acetate
Concen: 5.102 ug/l
RT: 6.292 min Scan# 749
Delta R.T. -0.059 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Tgt Ion	Ratio	Lower	Upper
43	100		
86	0.0	10.0	15.0#

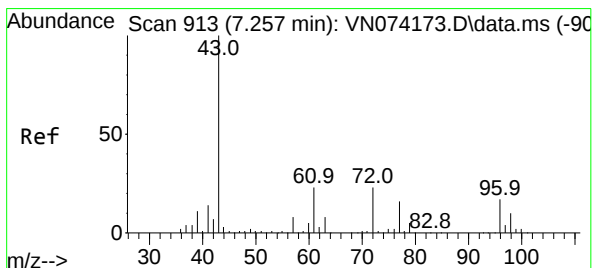
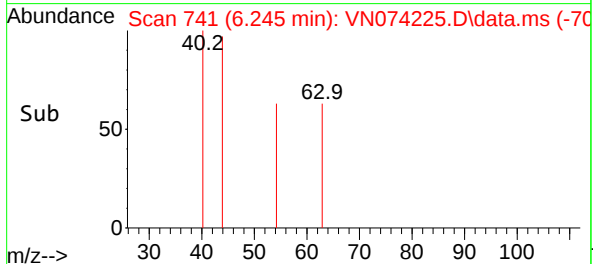
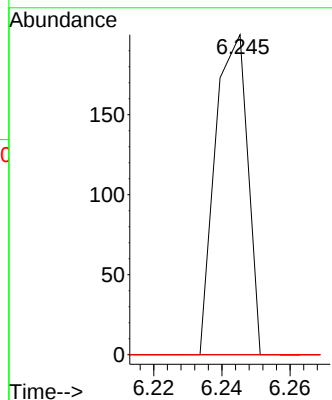
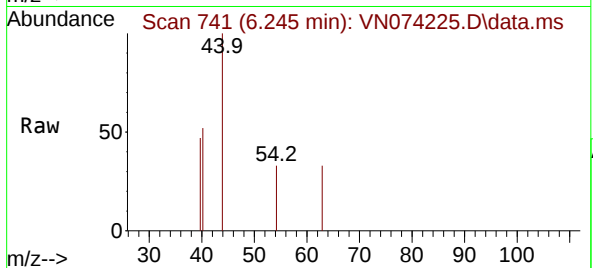




#24
 1,1-Dichloroethane
 Concen: 14.230 ug/l
 RT: 6.245 min Scan# 741
 Delta R.T. -0.059 min
 Lab File: VN074225.D
 Acq: 31 Aug 2022 19:42

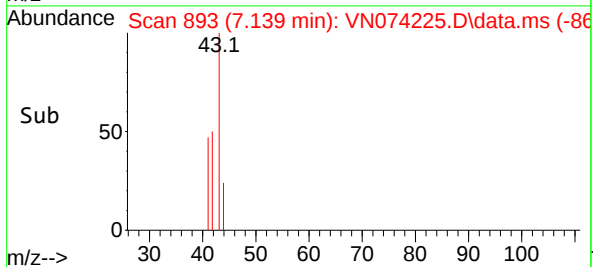
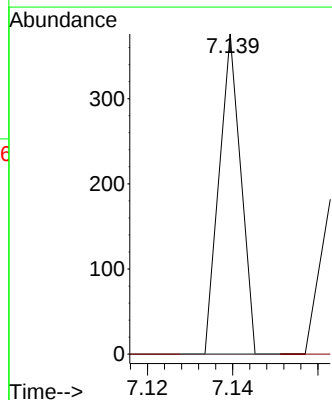
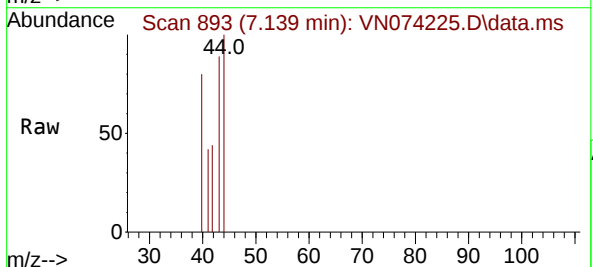
Instrument :
 MSVOA_N
 ClientSampleId :
 MTL-1

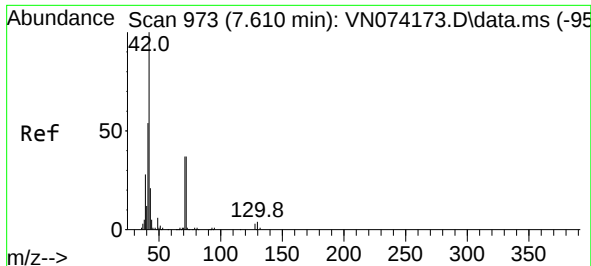
Tgt Ion: 63 Resp: 132
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.5 10.4#
 100 0.0 2.3 6.8#



#25
 2-Butanone
 Concen: 22.722 ug/l
 RT: 7.139 min Scan# 893
 Delta R.T. -0.118 min
 Lab File: VN074225.D
 Acq: 31 Aug 2022 19:42

Tgt Ion: 43 Resp: 133
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.7 35.5#





#29

Tetrahydrofuran

Concen: 14.754 ug/l

RT: 7.381 min Scan# 91

Delta R.T. -0.229 min

Lab File: VN074225.D

Acq: 31 Aug 2022 19:42

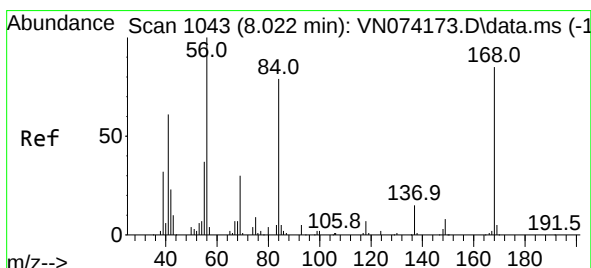
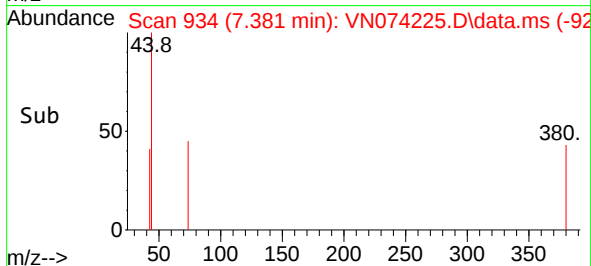
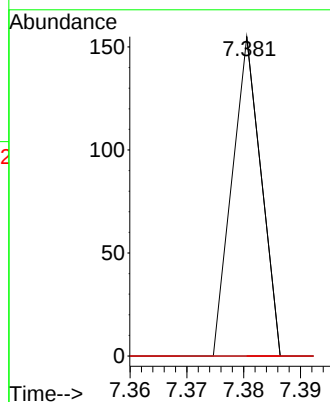
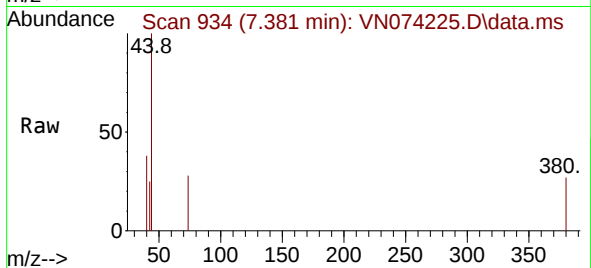
Instrument :

MSVOA_N

ClientSampleId :

MTL-1

Tgt Ion:	42	Resp:	55
Ion	Ratio	Lower	Upper
42	100		
72	0.0	39.7	59.5#
71	0.0	36.6	55.0#



#31

Cyclohexane

Concen: 556.389 ug/l

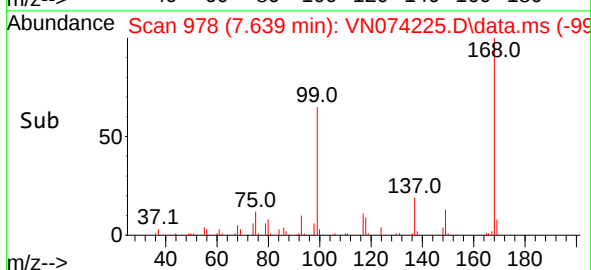
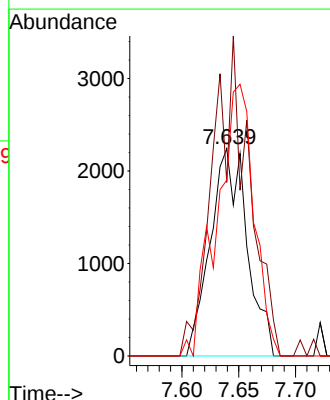
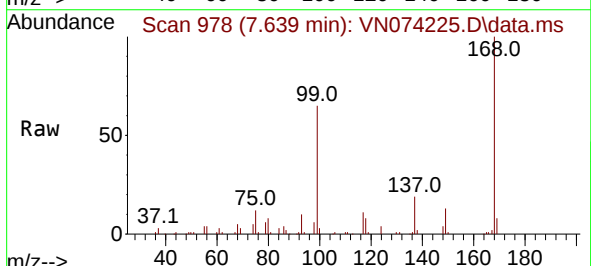
RT: 7.639 min Scan# 978

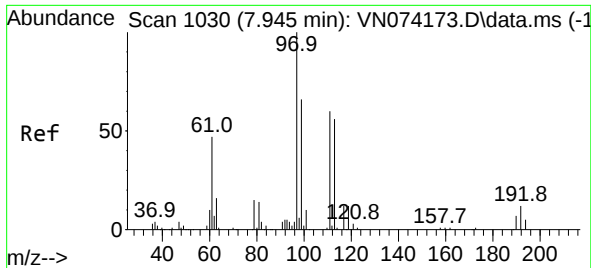
Delta R.T. -0.382 min

Lab File: VN074225.D

Acq: 31 Aug 2022 19:42

Tgt Ion:	56	Resp:	5034
Ion	Ratio	Lower	Upper
56	100		
69	83.7	27.8	41.8#
84	84.8	76.9	115.3

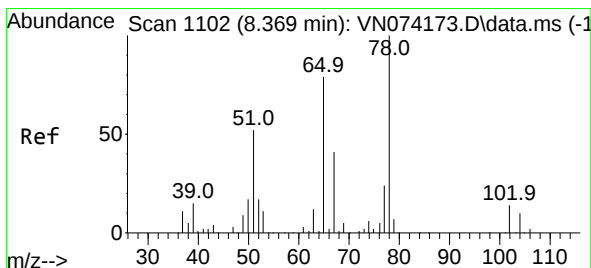
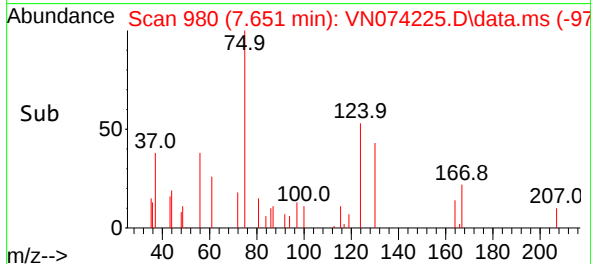
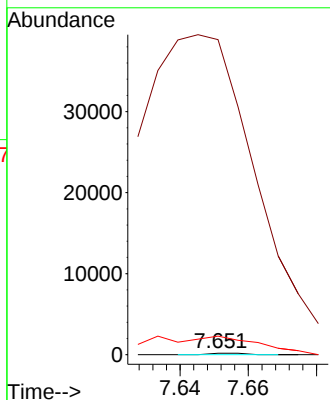
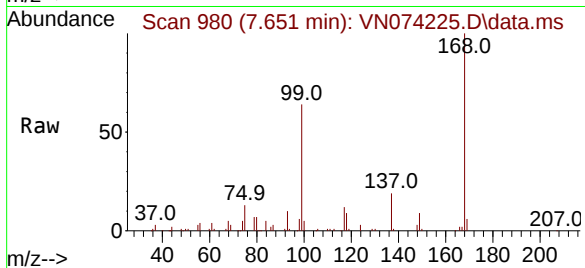




#32
1,1,1-Trichloroethane
Concen: 17.600 ug/l
RT: 7.651 min Scan# 91
Delta R.T. -0.294 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

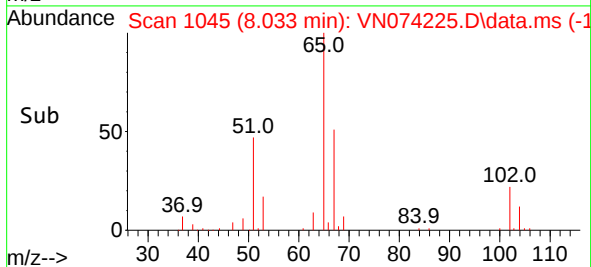
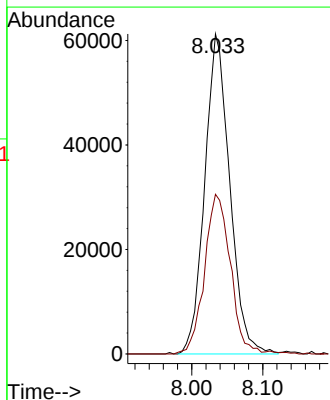
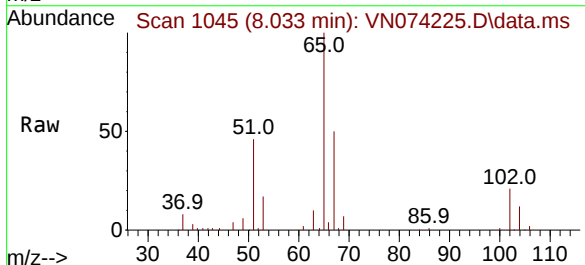
Instrument :
MSVOA_N
ClientSampleId :
MTL-1

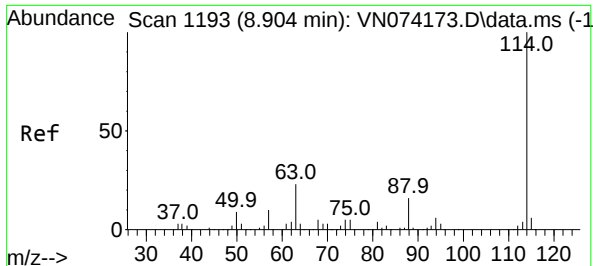
Tgt Ion: 97 Resp: 128
Ion Ratio Lower Upper
97 100
99 82314.1 50.6 76.0#
61 4551.6 36.0 54.0#



#33
1,2-Dichloroethane-d4
Concen: 27398.384 ug/l
RT: 8.033 min Scan# 1045
Delta R.T. -0.335 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Tgt Ion: 65 Resp: 150031
Ion Ratio Lower Upper
65 100
67 51.4 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.651 min Scan# 1193

Delta R.T. -0.253 min

Lab File: VN074225.D

Acq: 31 Aug 2022 19:42

Instrument :

MSVOA_N

ClientSampleId :

MTL-1

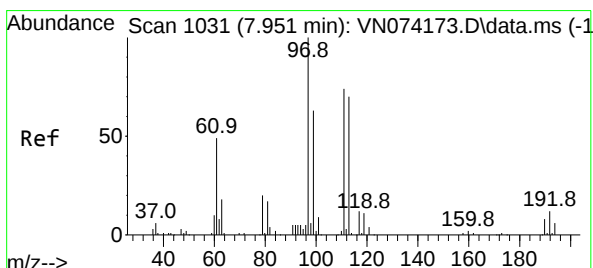
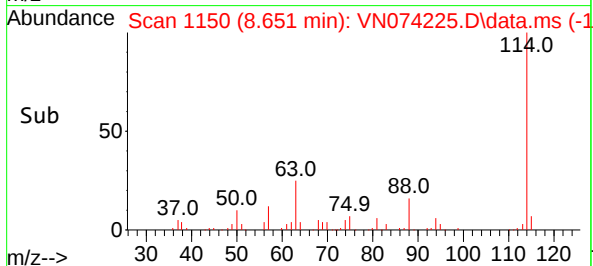
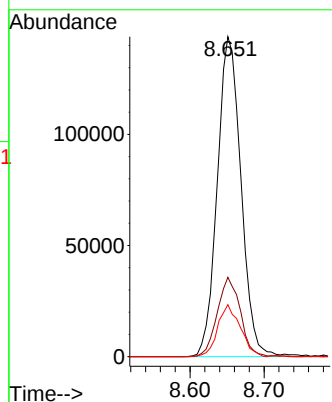
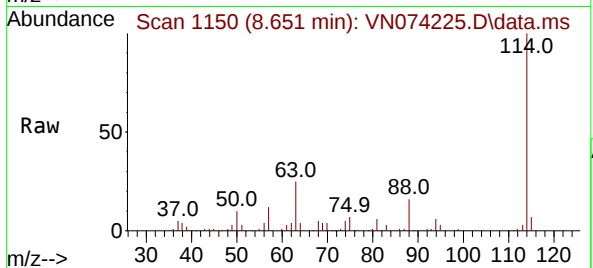
Tgt Ion:114 Resp: 319230

Ion Ratio Lower Upper

114 100

63 24.8 0.0 40.0

88 16.3 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.493 ug/l

RT: 7.551 min Scan# 963

Delta R.T. -0.400 min

Lab File: VN074225.D

Acq: 31 Aug 2022 19:42

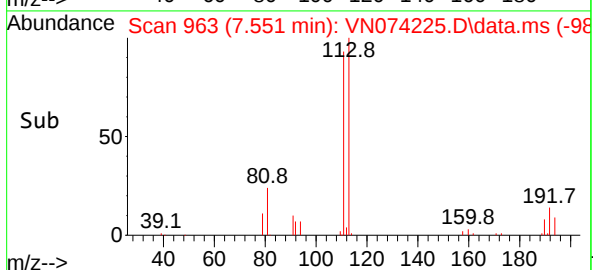
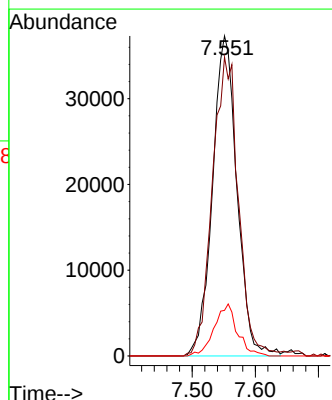
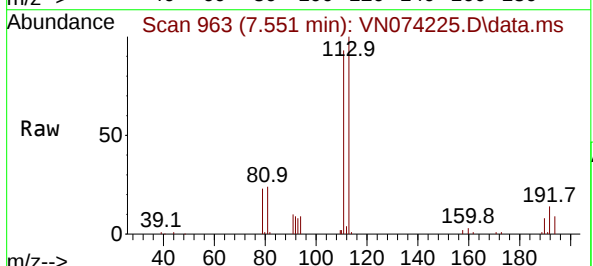
Tgt Ion:113 Resp: 100735

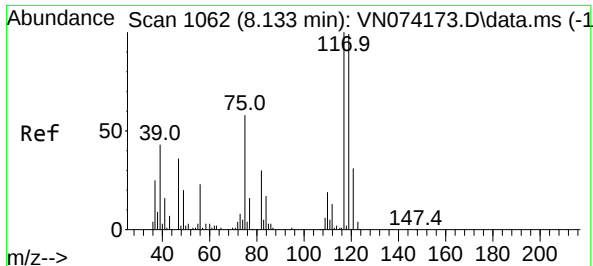
Ion Ratio Lower Upper

113 100

111 98.9 81.4 122.0

192 15.3 17.0 25.6#





#38

Carbon Tetrachloride

Concen: 5.545 ug/l

RT: 7.651 min Scan# 91

Delta R.T. -0.482 min

Lab File: VN074225.D

Acq: 31 Aug 2022 19:42

Instrument :

MSVOA_N

ClientSampleId :

MTL-1

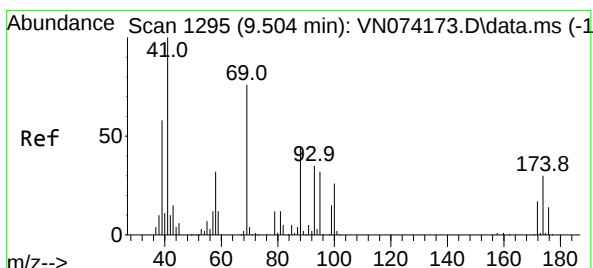
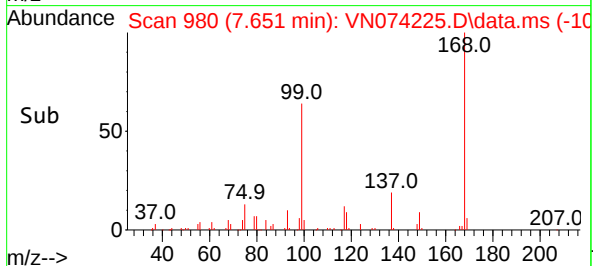
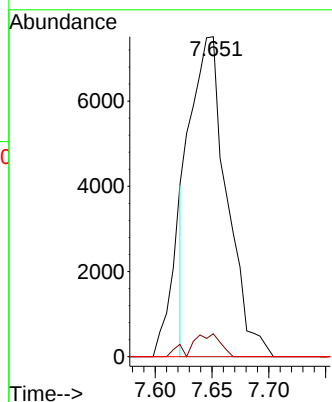
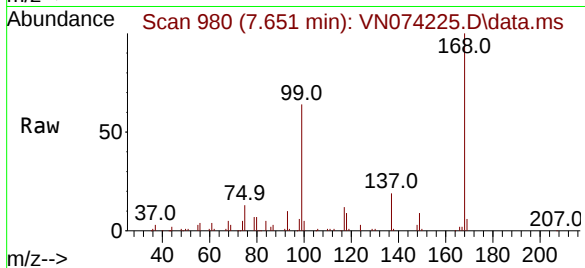
Tgt Ion:117 Resp: 16968

Ion Ratio Lower Upper

117 100

119 7.1 75.8 113.8#

121 0.0 24.6 37.0#



#49

1,4-Dioxane

Concen: 0.708 ug/l

RT: 9.198 min Scan# 1243

Delta R.T. -0.306 min

Lab File: VN074225.D

Acq: 31 Aug 2022 19:42

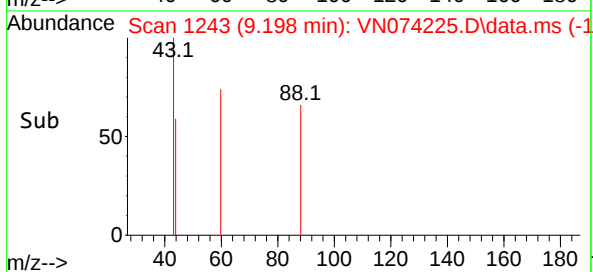
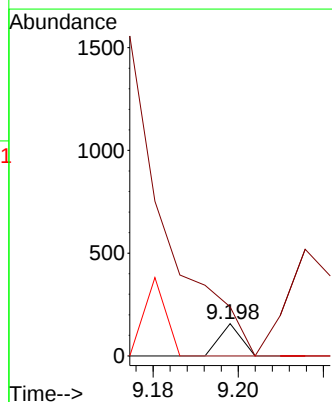
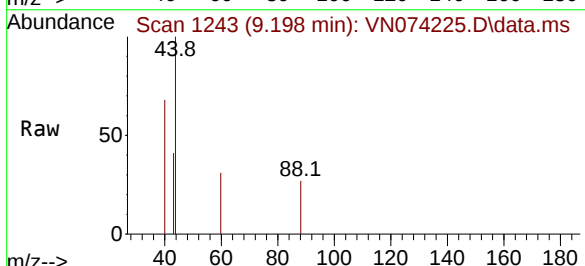
Tgt Ion: 88 Resp: 55

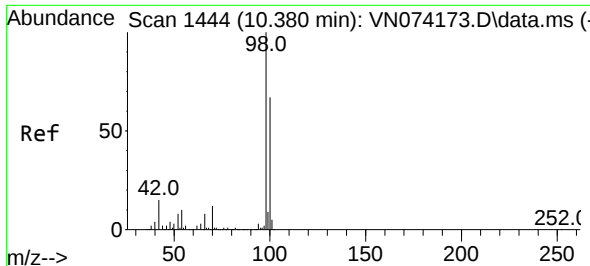
Ion Ratio Lower Upper

88 100

43 1196.4 20.2 30.4#

58 0.0 54.2 81.4#

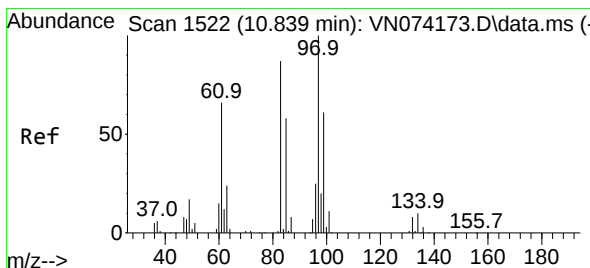
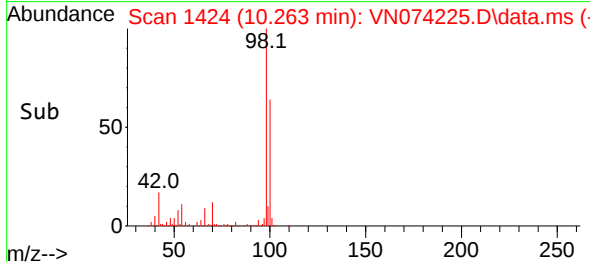
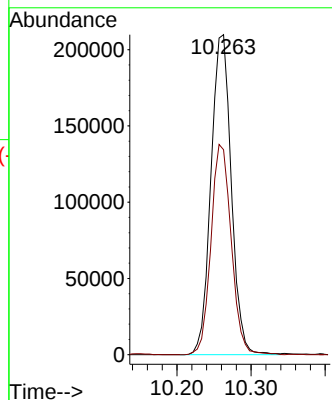
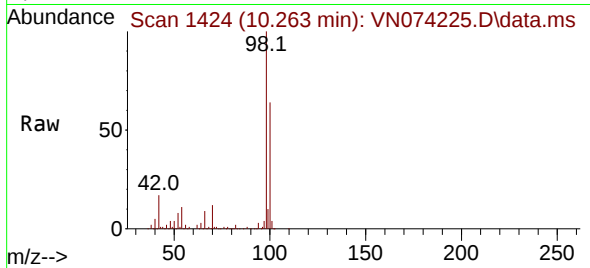




#50
Toluene-d8
Concen: 48.747 ug/l
RT: 10.263 min Scan# 1444
Delta R.T. -0.118 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

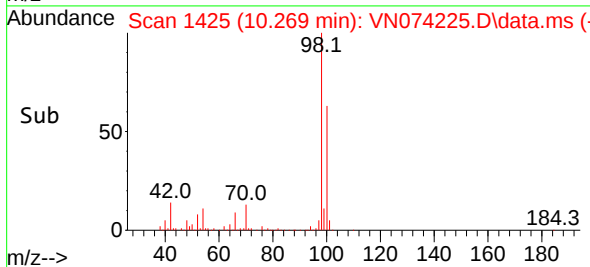
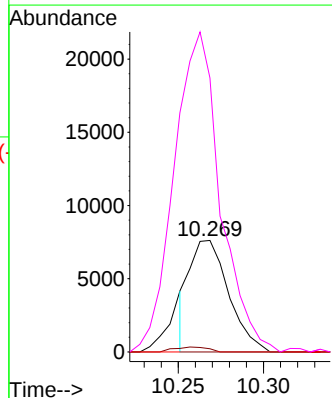
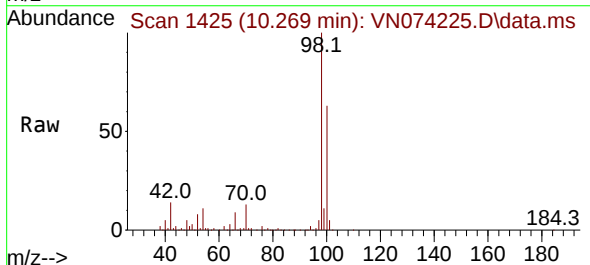
Instrument :
MSVOA_N
ClientSampleId :
MTL-1

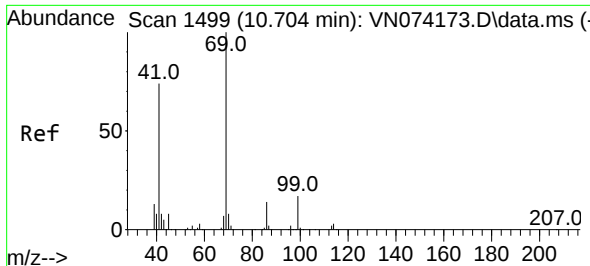
Tgt Ion: 98 Resp: 398779
Ion Ratio Lower Upper
98 100
100 65.6 52.6 78.8



#55
1,1,2-Trichloroethane
Concen: 4.466 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.571 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Tgt Ion: 97 Resp: 12051
Ion Ratio Lower Upper
97 100
83 2.8 66.2 99.4#
85 0.0 43.9 65.9#
99 245.6 50.6 76.0#

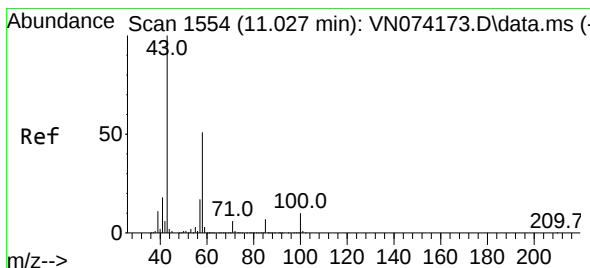
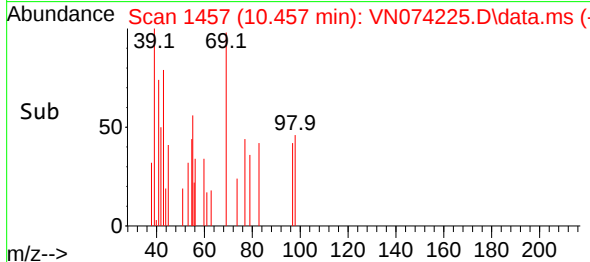
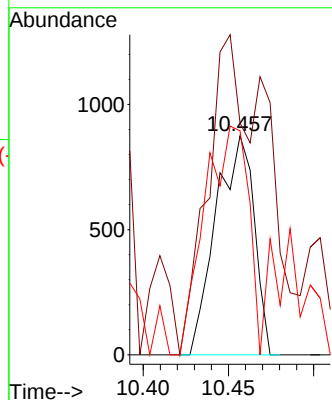
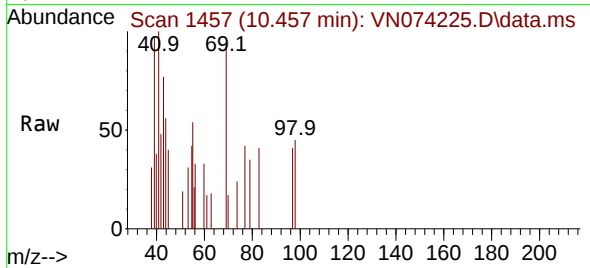




#56
Ethyl methacrylate
Concen: 0.333 ug/l
RT: 10.457 min Scan# 1499
Delta R.T. -0.247 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

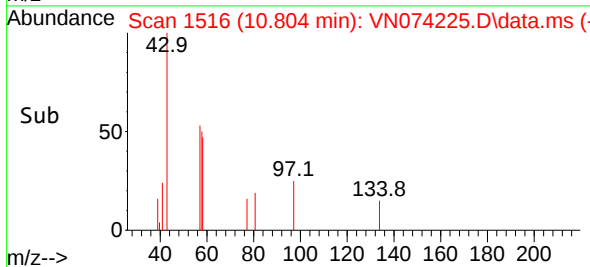
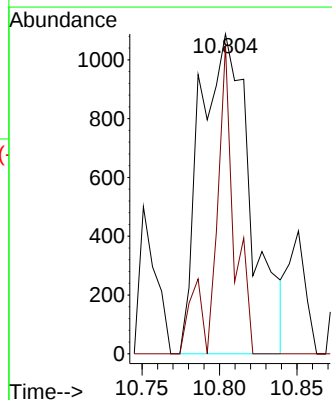
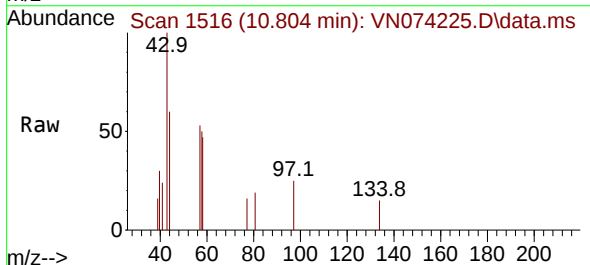
Instrument :
MSVOA_N
ClientSampleId :
MTL-1

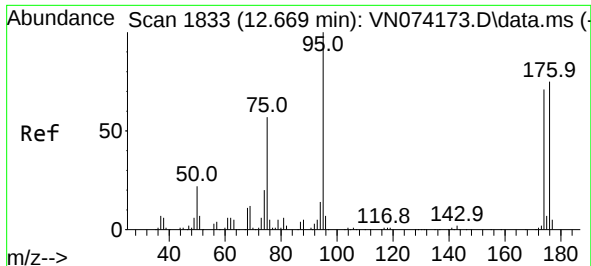
Tgt Ion: 69 Resp: 1363
Ion Ratio Lower Upper
69 100
41 148.3 47.8 71.6#
39 119.6 27.3 40.9#



#59
2-Hexanone
Concen: 0.590 ug/l
RT: 10.804 min Scan# 1516
Delta R.T. -0.224 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Tgt Ion: 43 Resp: 2462
Ion Ratio Lower Upper
43 100
58 36.2 29.7 89.1

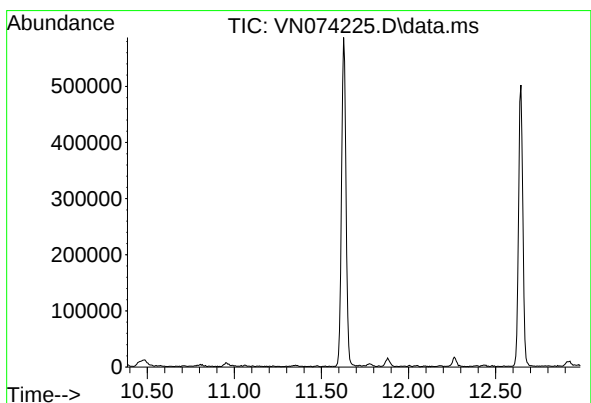
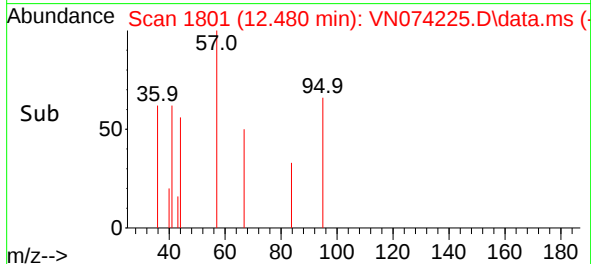
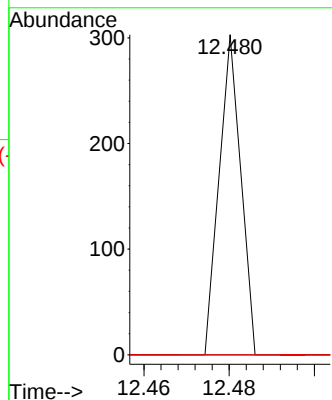
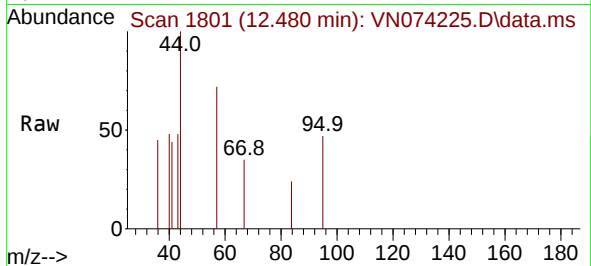




#62
4-Bromofluorobenzene
Concen: 0.043 ug/l
RT: 12.480 min Scan# 11
Delta R.T. -0.188 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Instrument :
MSVOA_N
ClientSampleId :
MTL-1

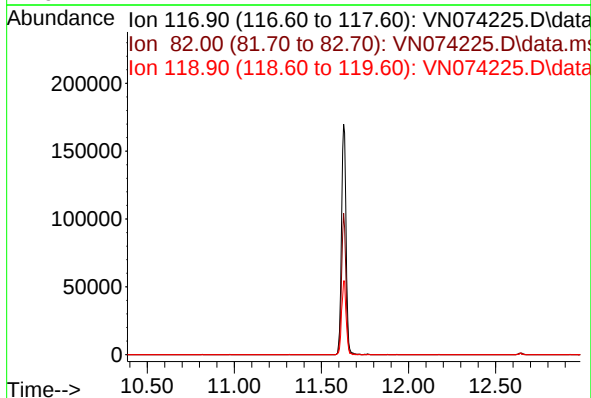
Tgt Ion: 95 Resp: 107
Ion Ratio Lower Upper
95 100
174 0.0 0.0 167.6
176 0.0 0.0 163.4

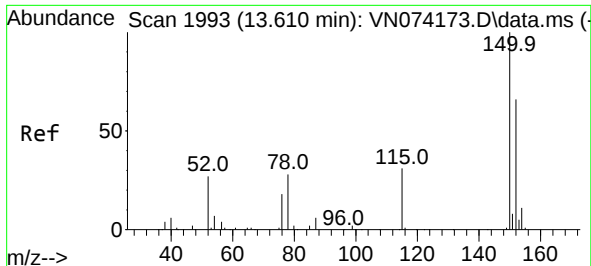


#63
Chlorobenzene-d5
Concen: 0.000 ug/l
Expected RT: 11.69 min

Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Tgt Ion: 117
Sig Exp Ratio
117 100
82 55.2
119 31.7

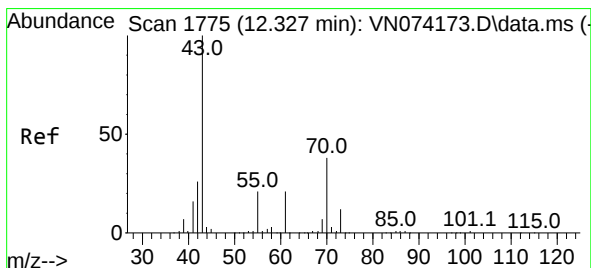
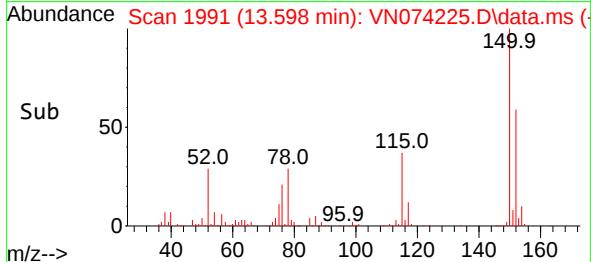
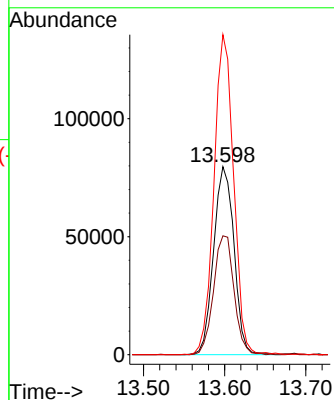
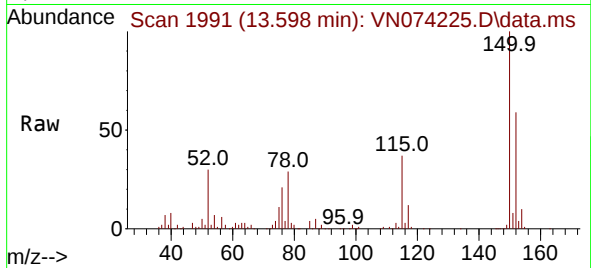




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.598 min Scan# 1991
Delta R.T. -0.012 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

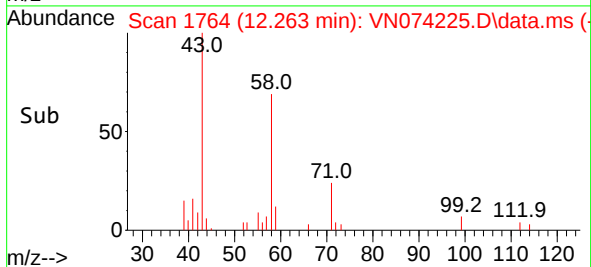
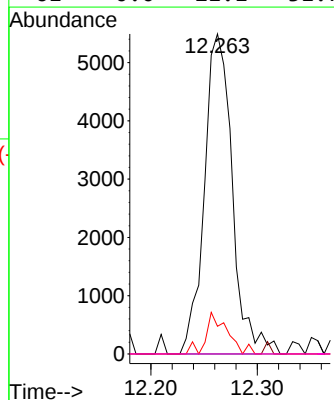
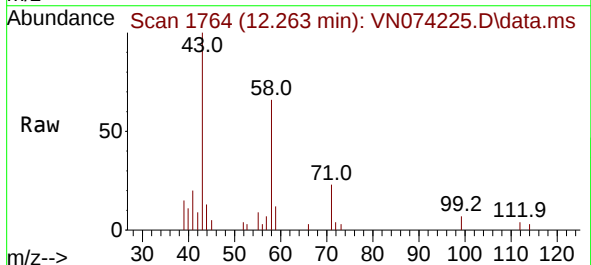
Instrument :
MSVOA_N
ClientSampleId :
MTL-1

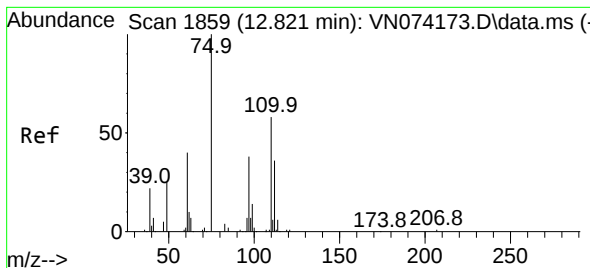
Tgt Ion:152 Resp: 139344
Ion Ratio Lower Upper
152 100
115 63.5 28.9 86.7
150 163.9 0.0 356.2



#74
N-ethyl acetate
Concen: 1.484 ug/l
RT: 12.263 min Scan# 1764
Delta R.T. -0.065 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Tgt Ion: 43 Resp: 10022
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 9.9 21.1 31.7#
61 0.0 21.1 31.7#





#76

1,2,3-Trichloropropane

Concen: 26.309 ug/l

RT: 12.645 min Scan# 1829

Delta R.T. -0.176 min

Lab File: VN074225.D

Acq: 31 Aug 2022 19:42

Instrument :

MSVOA_N

ClientSampleId :

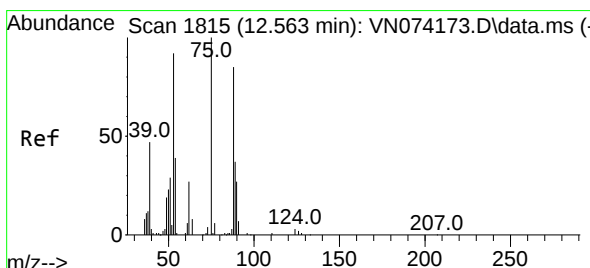
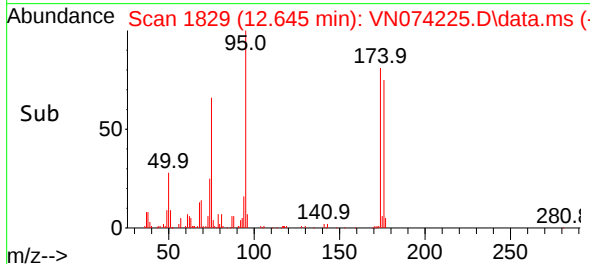
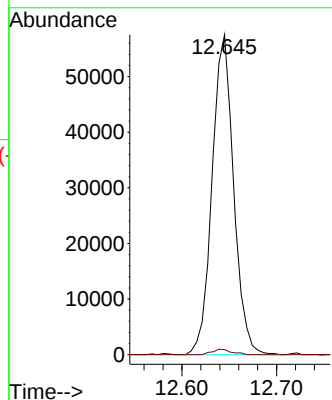
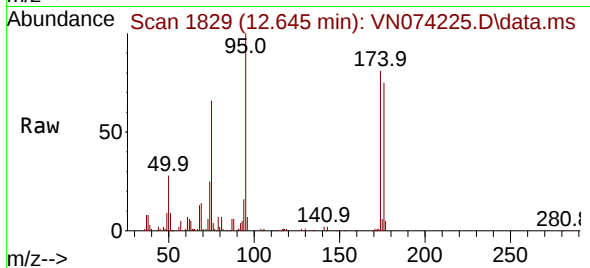
MTL-1

Tgt Ion: 75 Resp: 90735

Ion Ratio Lower Upper

75 100

77 1.5 98.5 295.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.589 ug/l

RT: 12.645 min Scan# 1829

Delta R.T. 0.082 min

Lab File: VN074225.D

Acq: 31 Aug 2022 19:42

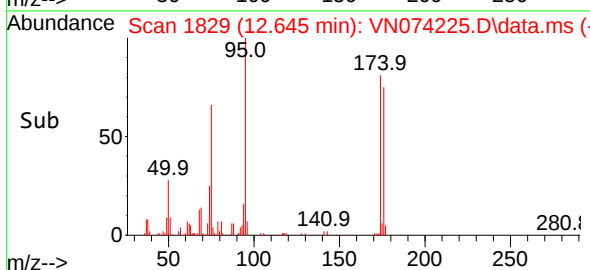
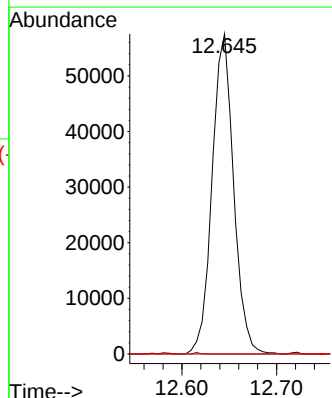
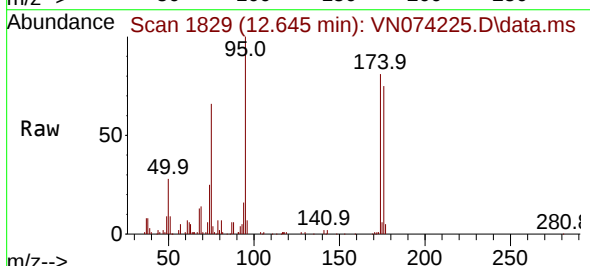
Tgt Ion: 75 Resp: 90735

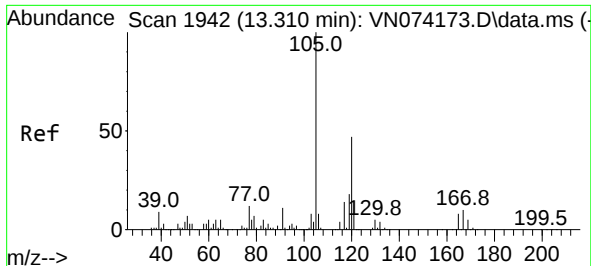
Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 37.2 55.8#

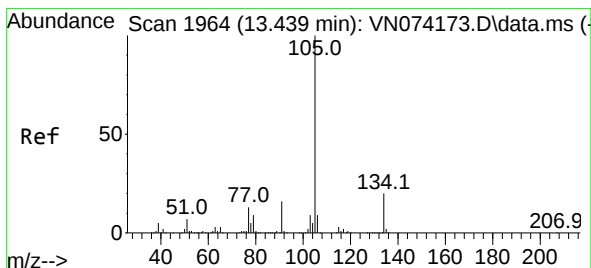
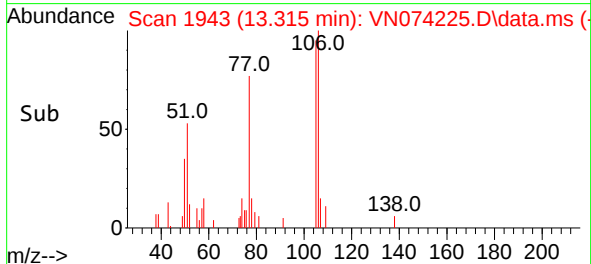
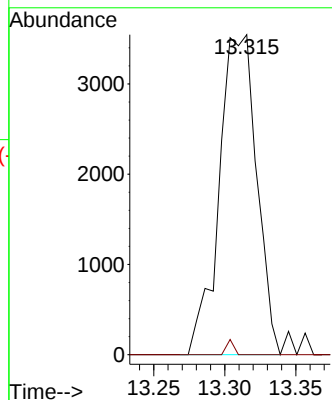
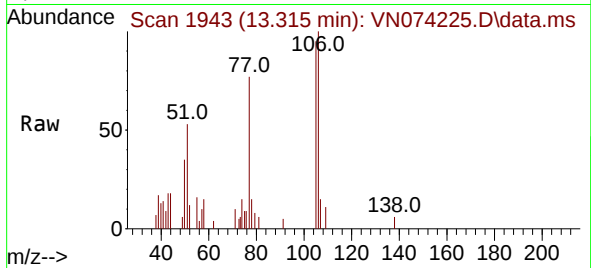




#84
1,2,4-Trimethylbenzene
Concen: 0.695 ug/l
RT: 13.315 min Scan# 1943
Delta R.T. 0.006 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

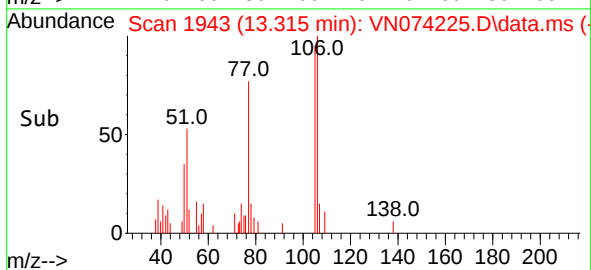
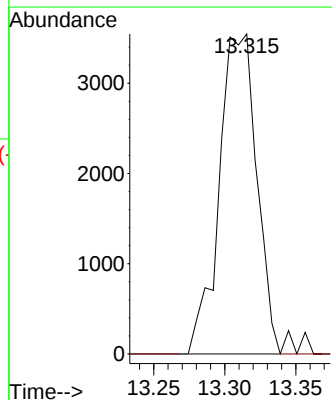
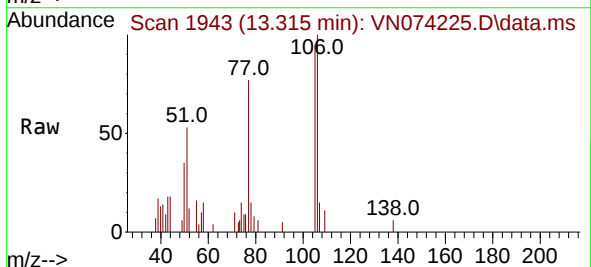
Instrument :
MSVOA_N
ClientSampleId :
MTL-1

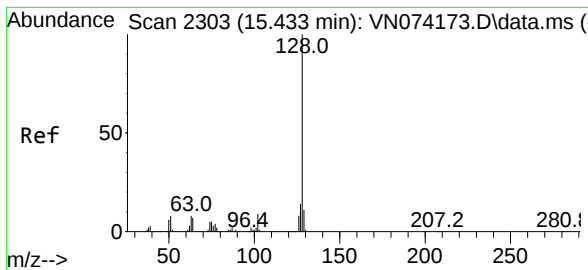
Tgt Ion:105 Resp: 6514
Ion Ratio Lower Upper
105 100
120 0.9 23.3 69.8#



#85
sec-Butylbenzene
Concen: 0.559 ug/l
RT: 13.315 min Scan# 1943
Delta R.T. -0.124 min
Lab File: VN074225.D
Acq: 31 Aug 2022 19:42

Tgt Ion:105 Resp: 6514
Ion Ratio Lower Upper
105 100
134 0.0 10.4 31.1#





#95
 Naphthalene
 Concen: 1.181 ug/l
 RT: 15.433 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN074225.D
 Acq: 31 Aug 2022 19:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MTL-1

Tgt Ion:	128	Resp:	320
Ion	Ratio	Lower	Upper
128	100		
127	50.9	10.3	15.5#
129	0.0	8.6	13.0#

