

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032222\
 Data File : VN071466.D
 Acq On : 22 Mar 2022 14:32
 Operator : JC\MD
 Sample : PB143494ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 23 07:08:19 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 08 06:52:46 2022
 Response via : Initial Calibration

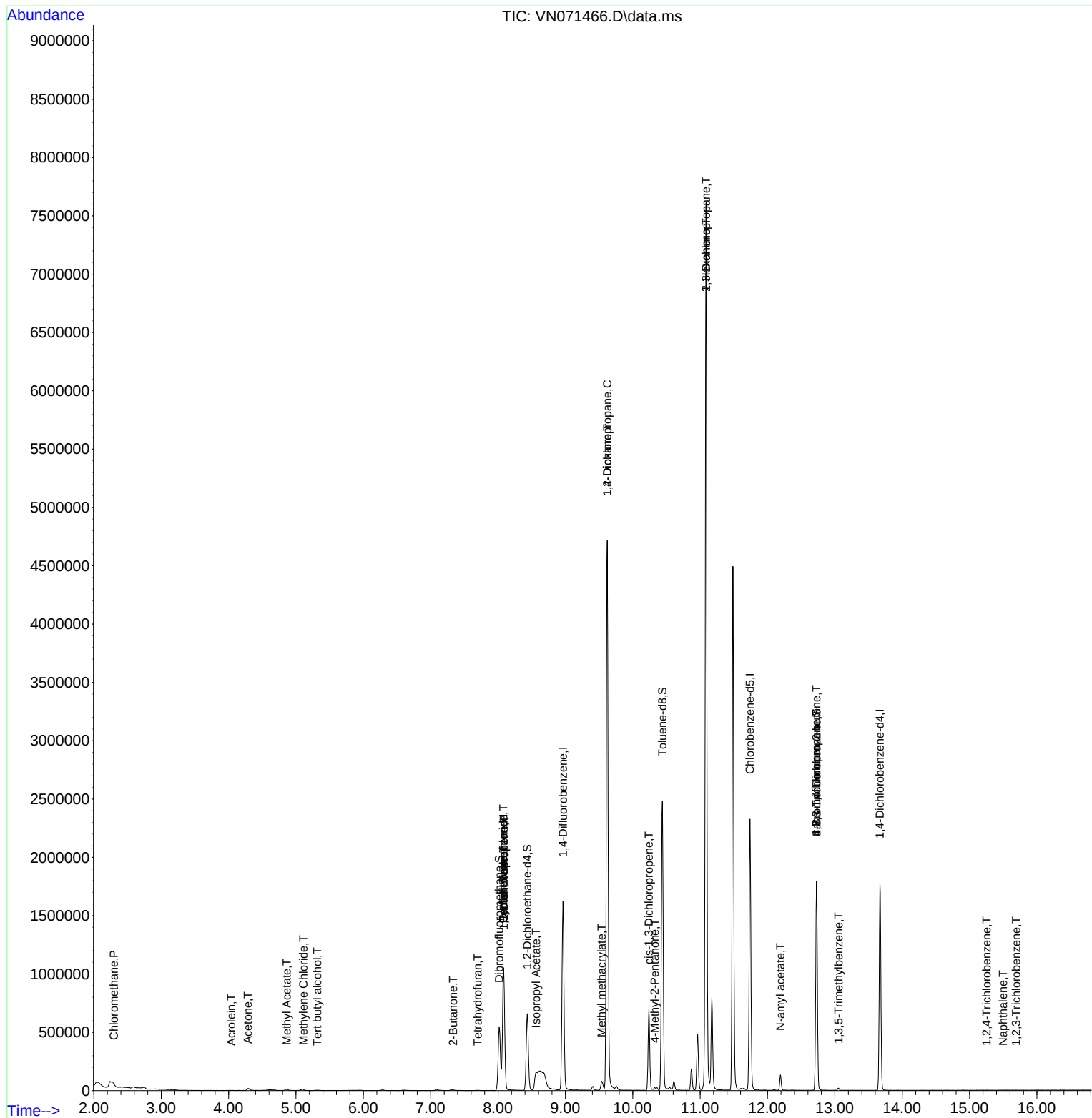
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.081	168	797716	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1398715	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1310611	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	481878	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	534540	48.892	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.780%
35) Dibromofluoromethane	8.016	113	400137	45.334	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	90.660%
50) Toluene-d8	10.439	98	1723786	48.506	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.020%
62) 4-Bromofluorobenzene	12.727	95	624582	51.902	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	103.800%
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	4367	0.338	ug/l #	81
5) Bromomethane	2.846	94	318	Below Cal		96
11) Tert butyl alcohol	5.316	59	3574	1.664	ug/l #	71
13) Acrolein	4.040	56	717	0.315	ug/l #	26
16) Acetone	4.287	43	32302	6.072	ug/l	96
18) Methyl Acetate	4.863	43	24282	2.154	ug/l	92
20) Methylene Chloride	5.110	84	9482	1.350	ug/l #	82
25) 2-Butanone	7.334	43	8144	0.950	ug/l #	78
29) Tetrahydrofuran	7.698	42	1979	0.333	ug/l #	63
31) Cyclohexane	8.081	56	17078	0.978	ug/l #	1
36) 1,1-Dichloropropene	8.087	75	63698	4.504	ug/l #	49
38) Carbon Tetrachloride	8.081	117	76467	5.590	ug/l #	16
43) Isopropyl Acetate	8.563	43	197499	6.786	ug/l #	71
45) 1,2-Dichloropropane	9.622	63	6500	0.568	ug/l #	44
48) Methyl methacrylate	9.539	41	22672	1.681	ug/l #	8
49) 1,4-Dioxane	9.622	88	759	3.237	ug/l #	1
51) 4-Methyl-2-Pentanone	10.328	43	15145	0.838	ug/l	97
54) cis-1,3-Dichloropropene	10.239	75	121113	7.068	ug/l #	60
57) 1,3-Dichloropropane	11.086	76	74188	3.931	ug/l #	43
59) 2-Hexanone	11.086	43	1204183	97.709	ug/l #	49
74) N-amyl acetate	12.192	43	43559	2.494	ug/l #	53
75) 1,1,2,2-Tetrachloroethane	12.727	83	331	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.727	75	324247	26.433	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.057	105	7695	0.213	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.727	75	324247	72.738	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.251	180	242	3.018	ug/l #	1
95) Naphthalene	15.498	128	892	5.104	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.692	180	435	2.786	ug/l #	78

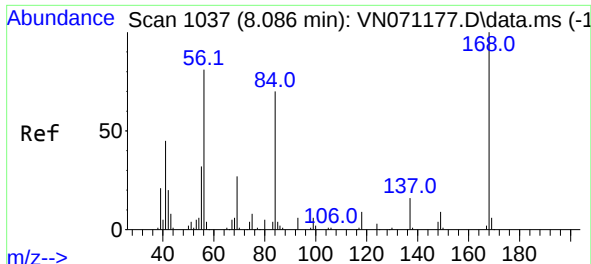
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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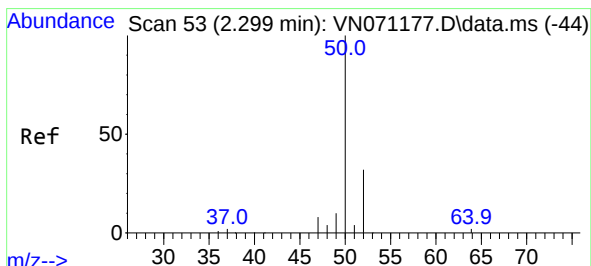
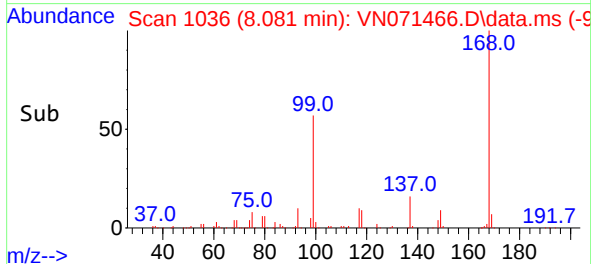
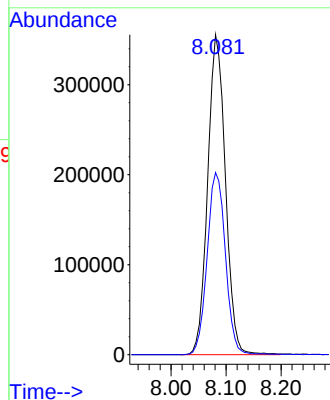
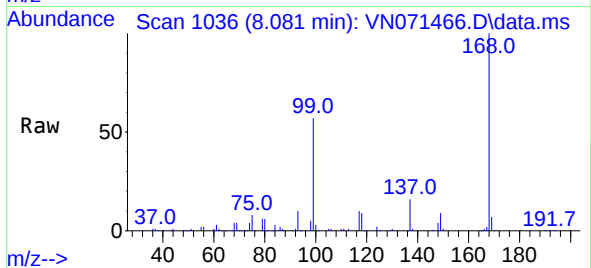




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 10
Delta R.T. -0.005 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

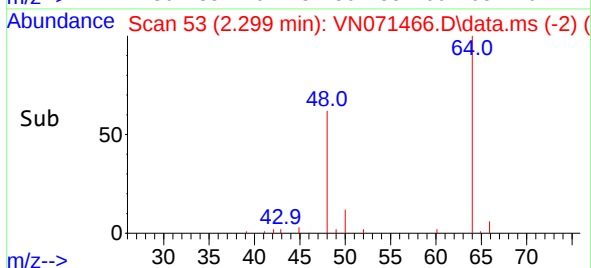
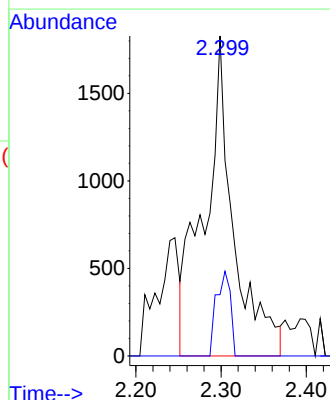
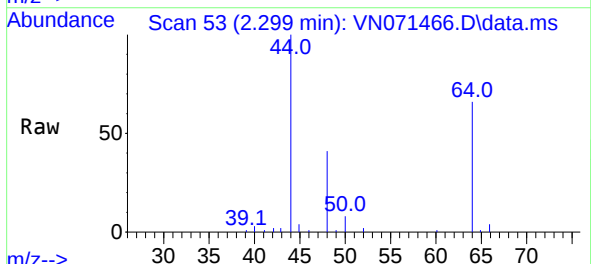
Instrument :
MSVOA_N
ClientSampleId :

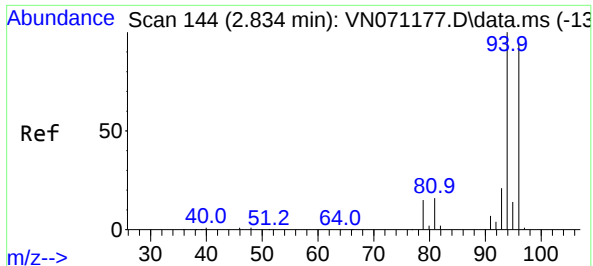
Tgt Ion:168 Resp: 797716
Ion Ratio Lower Upper
168 100
99 56.9 41.3 61.9



#3
Chloromethane
Concen: 0.338 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

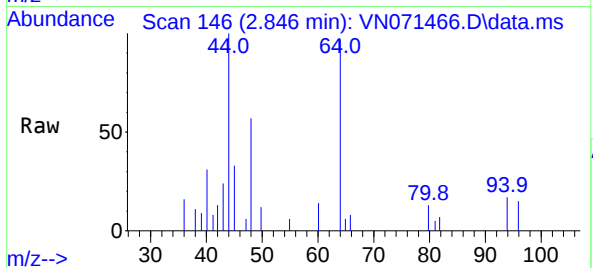
Tgt Ion: 50 Resp: 4367
Ion Ratio Lower Upper
50 100
52 21.1 25.4 38.0#



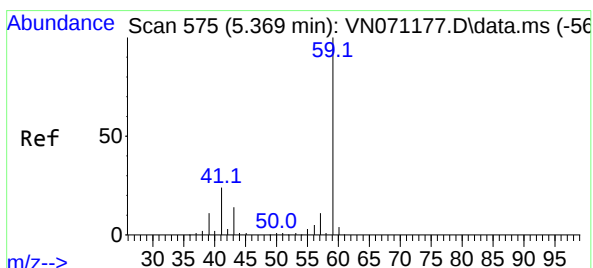
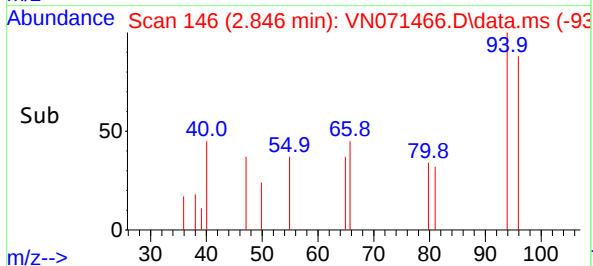
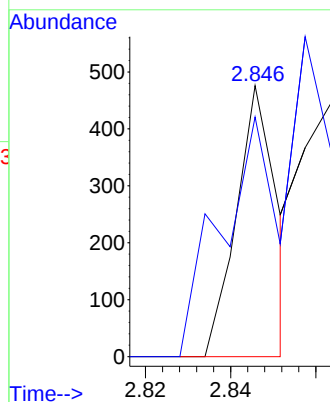


#5
Bromomethane
Concen: Below Cal
RT: 2.846 min Scan# 14
Delta R.T. 0.012 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Instrument :
MSVOA_N
ClientSampleId :

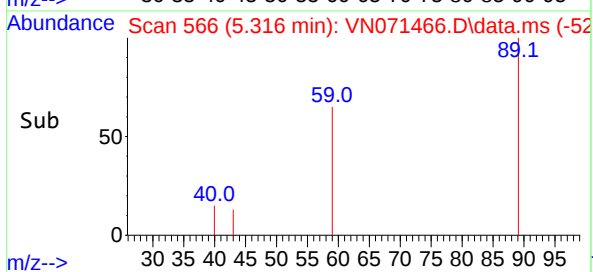
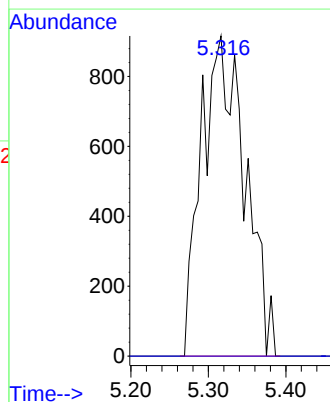
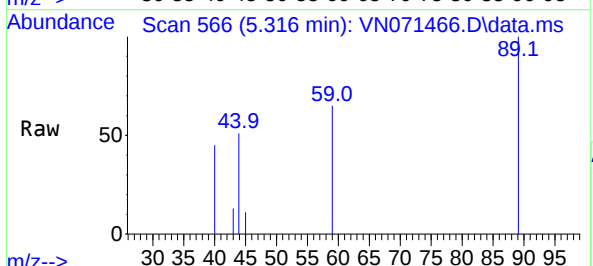


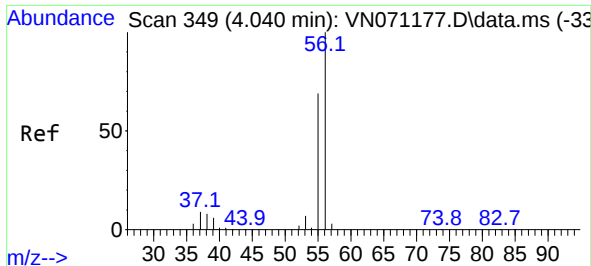
Tgt Ion: 94 Resp: 318
Ion Ratio Lower Upper
94 100
96 88.4 73.8 110.8



#11
Tert butyl alcohol
Concen: 1.664 ug/l
RT: 5.316 min Scan# 566
Delta R.T. -0.053 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Tgt Ion: 59 Resp: 3574
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

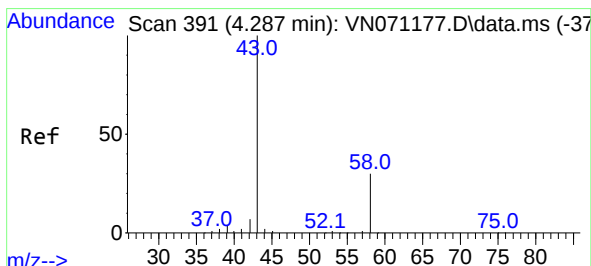
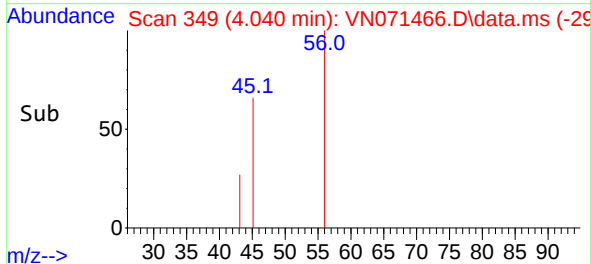
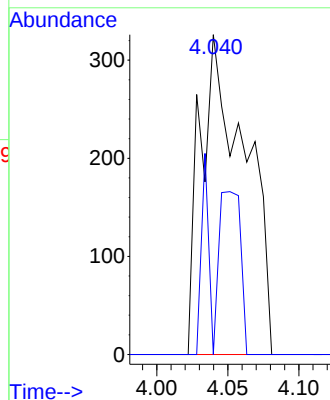
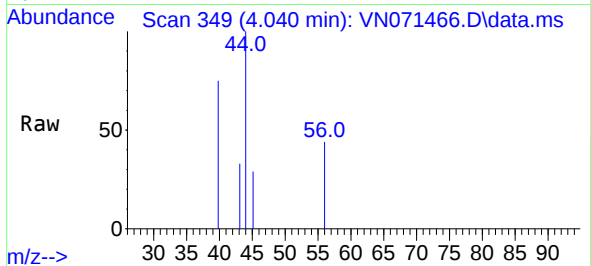




#13
Acrolein
Concen: 0.315 ug/l
RT: 4.040 min Scan# 349
Delta R.T. 0.000 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

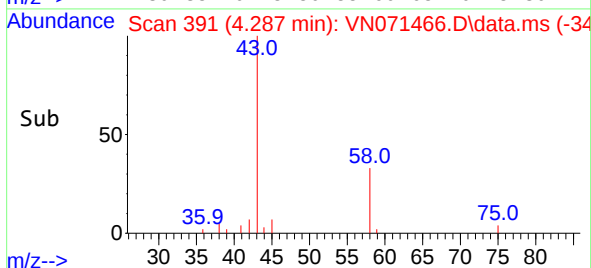
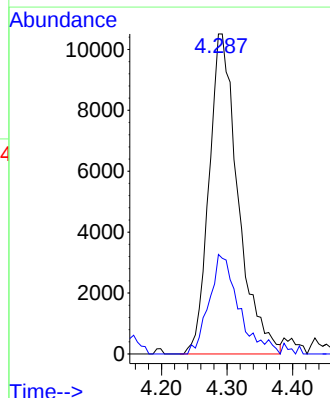
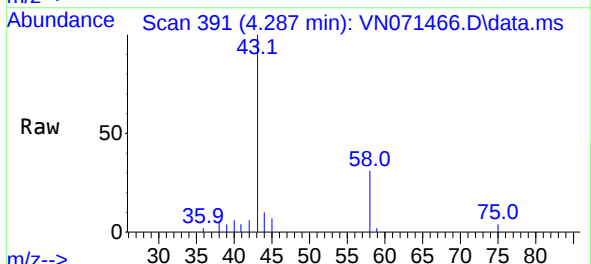
Instrument :
MSVOA_N
ClientSampleId :

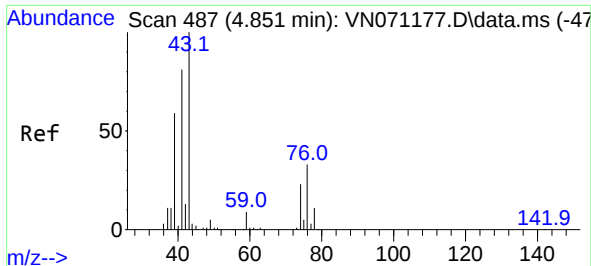
Tgt Ion: 56 Resp: 717
Ion Ratio Lower Upper
56 100
55 10.0 56.6 85.0#



#16
Acetone
Concen: 6.072 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.000 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Tgt Ion: 43 Resp: 32302
Ion Ratio Lower Upper
43 100
58 31.1 23.1 34.7

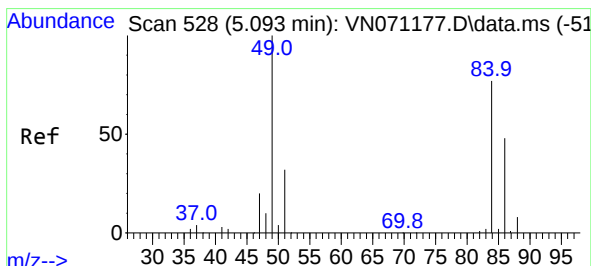
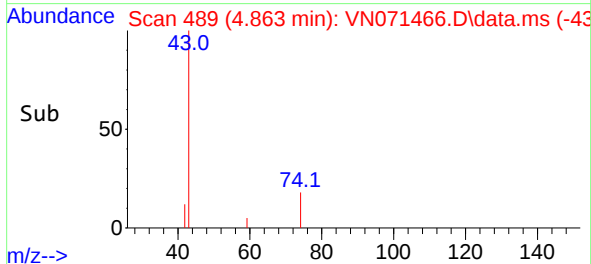
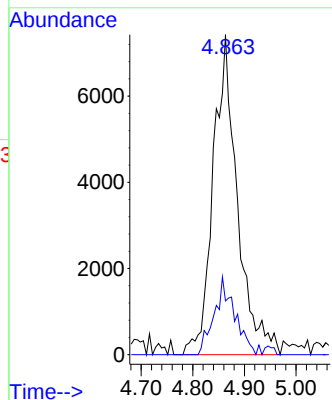
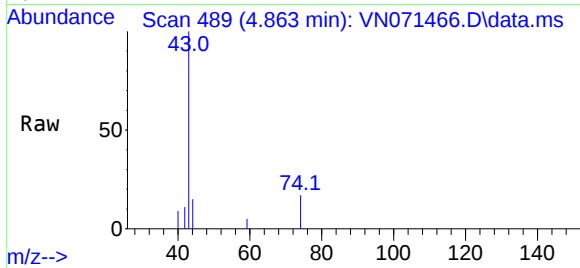




#18
Methyl Acetate
Concen: 2.154 ug/l
RT: 4.863 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

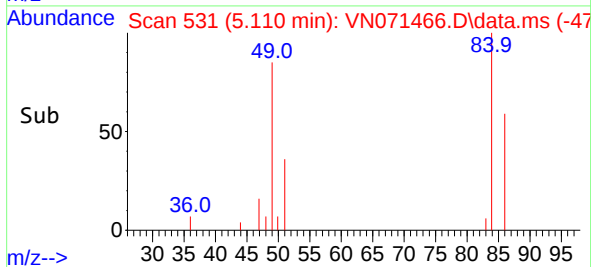
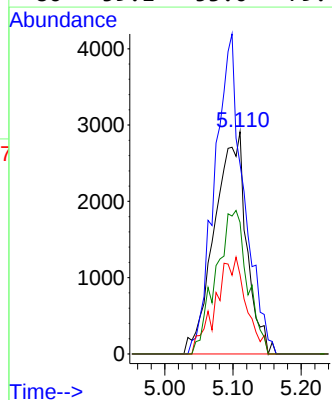
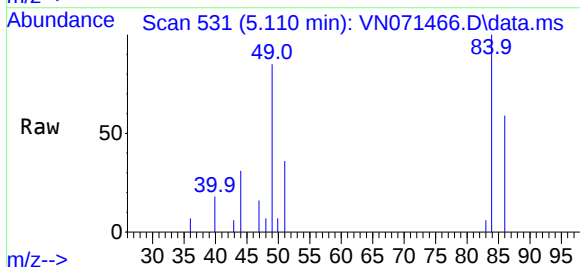
Instrument :
MSVOA_N
ClientSampleId :

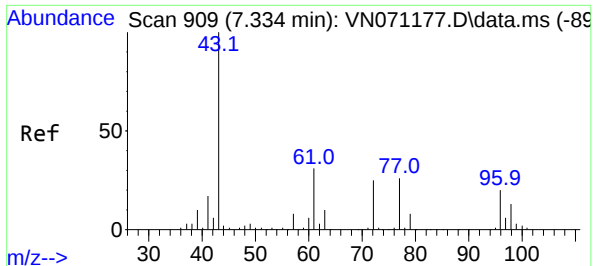
Tgt Ion: 43 Resp: 24282
Ion Ratio Lower Upper
43 100
74 20.4 19.4 29.2



#20
Methylene Chloride
Concen: 1.350 ug/l
RT: 5.110 min Scan# 531
Delta R.T. 0.017 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Tgt Ion: 84 Resp: 9482
Ion Ratio Lower Upper
84 100
49 85.5 93.5 140.3#
51 35.6 29.4 44.2
86 59.1 53.0 79.4





#25

2-Butanone

Concen: 0.950 ug/l

RT: 7.334 min Scan# 909

Delta R.T. 0.000 min

Lab File: VN071466.D

Acq: 22 Mar 2022 14:32

Instrument :

MSVOA_N

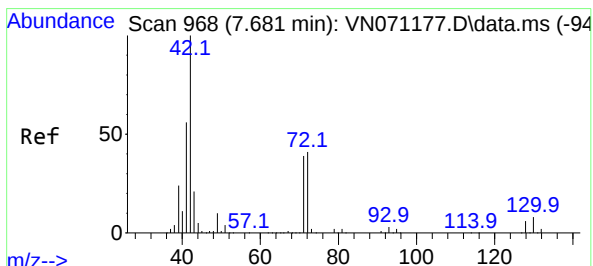
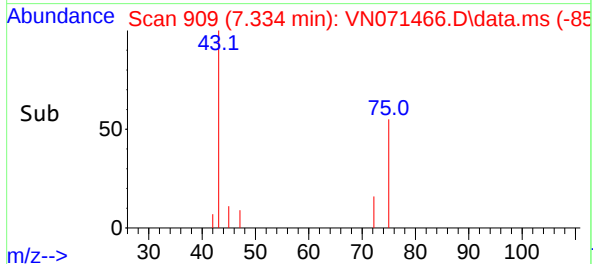
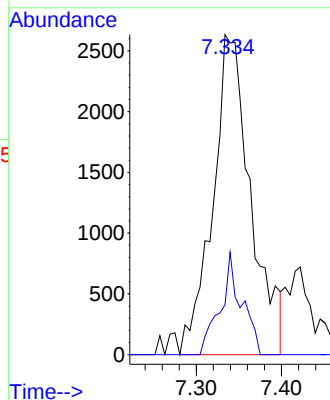
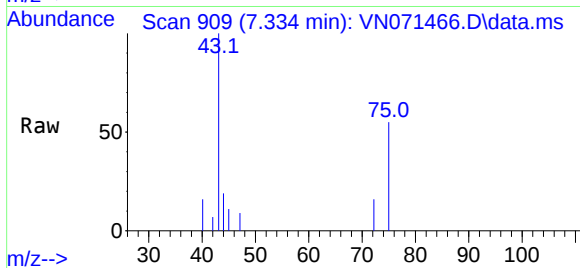
ClientSampleId :

Tgt Ion: 43 Resp: 8144

Ion Ratio Lower Upper

43 100

72 15.6 21.7 32.5#



#29

Tetrahydrofuran

Concen: 0.333 ug/l

RT: 7.698 min Scan# 971

Delta R.T. 0.018 min

Lab File: VN071466.D

Acq: 22 Mar 2022 14:32

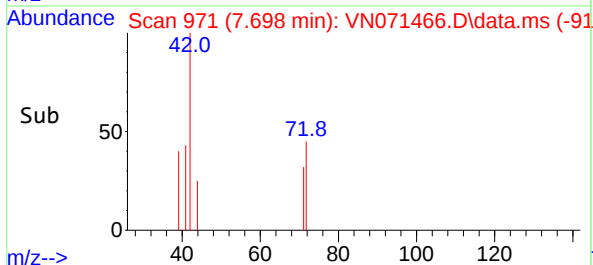
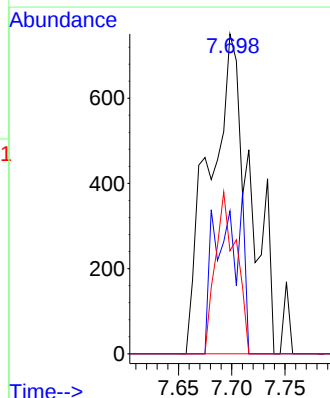
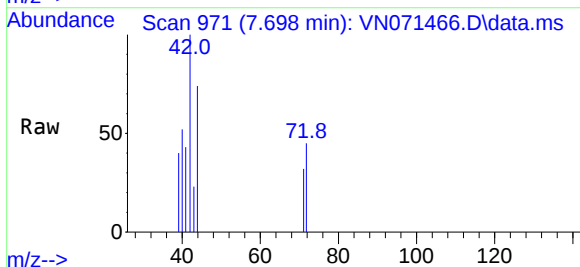
Tgt Ion: 42 Resp: 1979

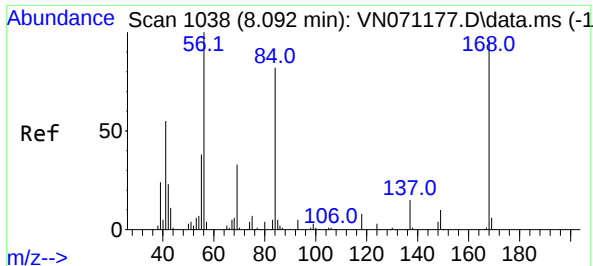
Ion Ratio Lower Upper

42 100

72 14.6 36.3 54.5#

71 25.9 34.7 52.1#





#31

Cyclohexane

Concen: 0.978 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.012 min

Lab File: VN071466.D

Acq: 22 Mar 2022 14:32

Instrument :

MSVOA_N

ClientSampleId :

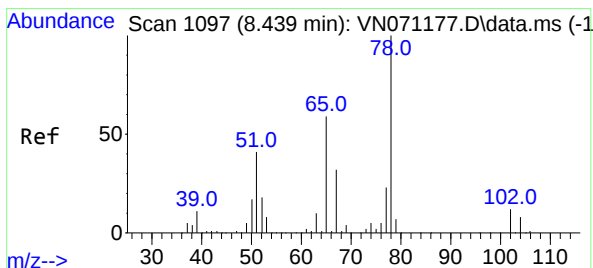
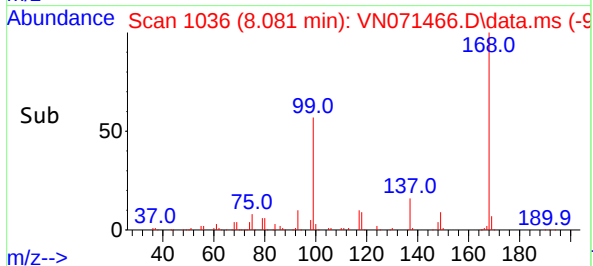
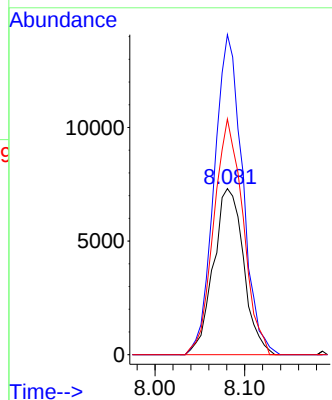
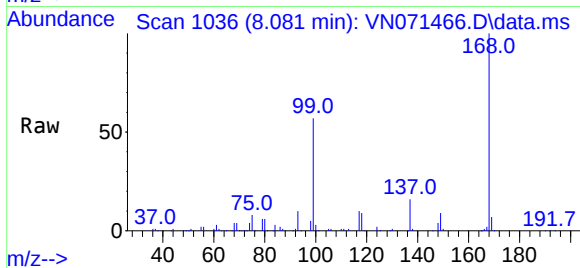
Tgt Ion: 56 Resp: 17078

Ion Ratio Lower Upper

56 100

69 192.6 27.1 40.7#

84 141.8 73.4 110.0#



#33

1,2-Dichloroethane-d4

Concen: 48.892 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.006 min

Lab File: VN071466.D

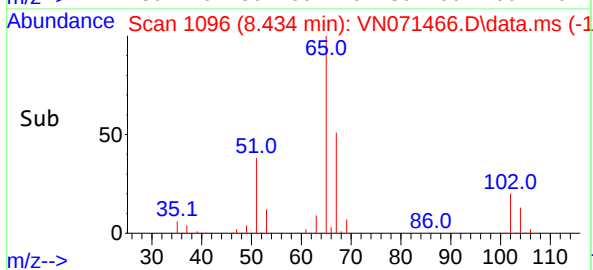
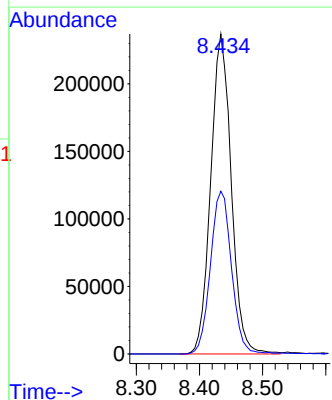
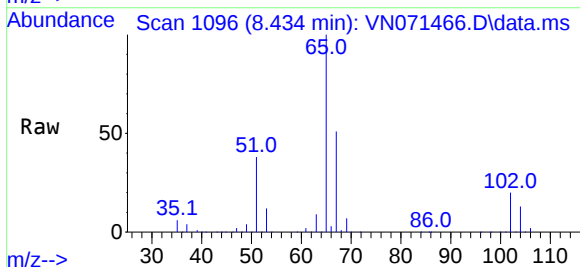
Acq: 22 Mar 2022 14:32

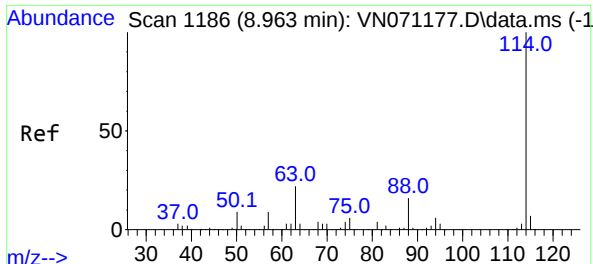
Tgt Ion: 65 Resp: 534540

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071466.D

Acq: 22 Mar 2022 14:32

Instrument :

MSVOA_N

ClientSampleId :

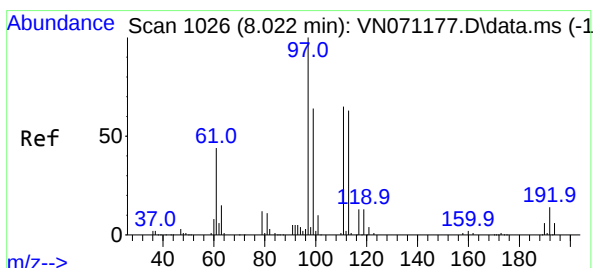
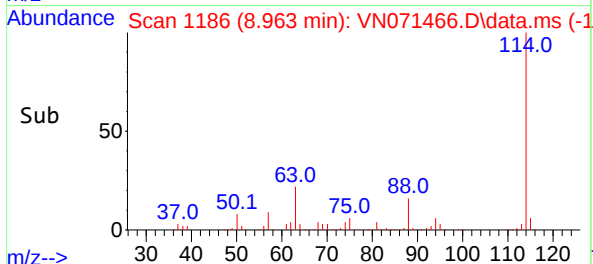
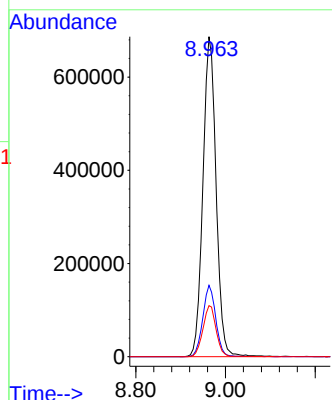
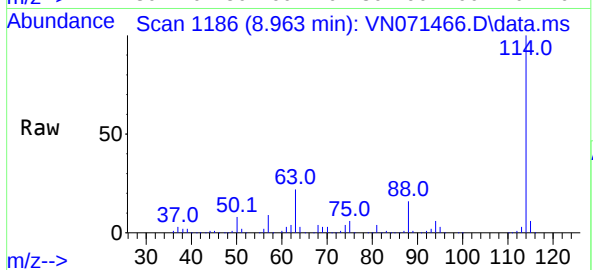
Tgt Ion:114 Resp: 1398715

Ion Ratio Lower Upper

114 100

63 22.3 0.0 37.8

88 15.9 0.0 27.4



#35

Dibromofluoromethane

Concen: 45.334 ug/l

RT: 8.016 min Scan# 1025

Delta R.T. -0.006 min

Lab File: VN071466.D

Acq: 22 Mar 2022 14:32

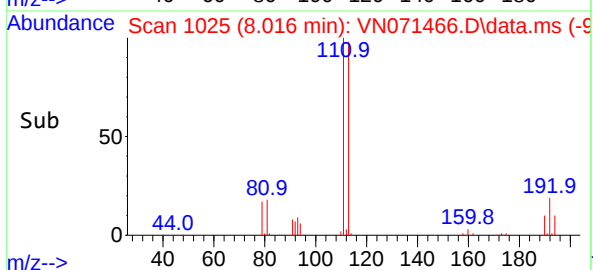
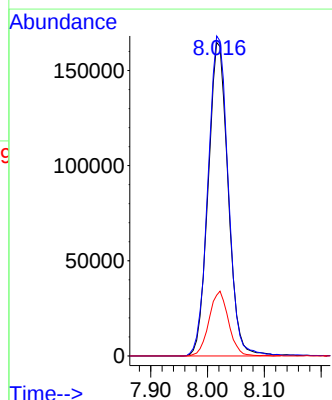
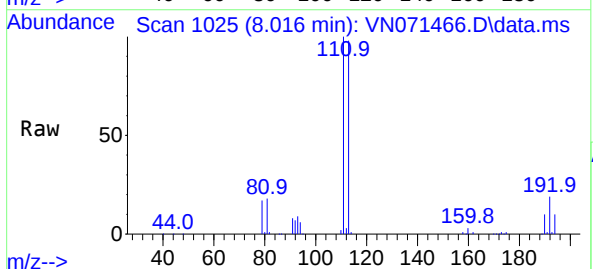
Tgt Ion:113 Resp: 400137

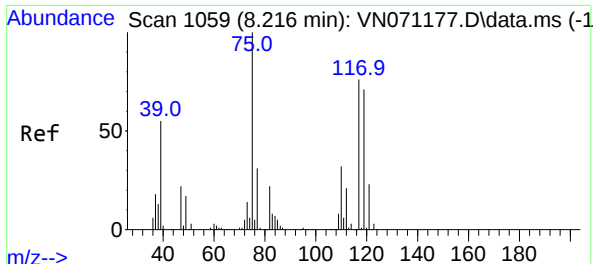
Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.2

192 20.2 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.504 ug/l

RT: 8.087 min Scan# 1037

Delta R.T. -0.129 min

Lab File: VN071466.D

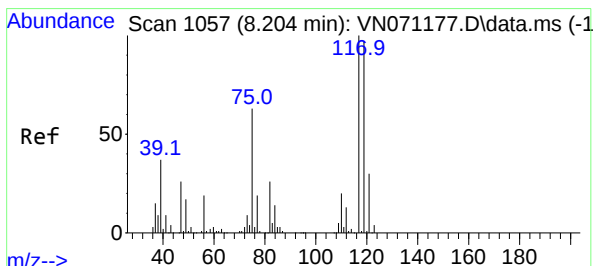
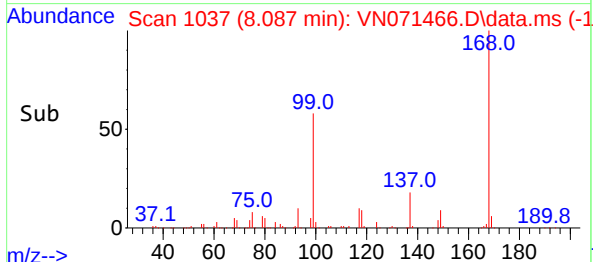
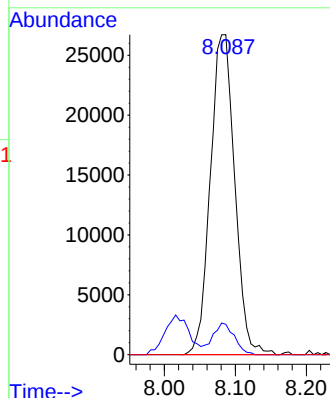
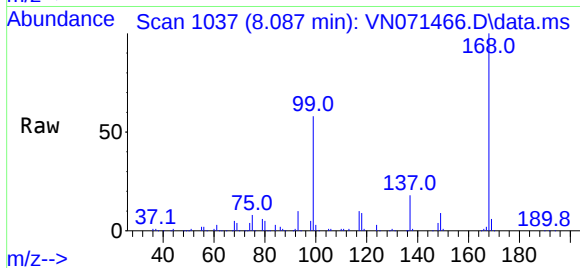
Acq: 22 Mar 2022 14:32

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 75	Resp: 63698
Ion Ratio	Lower Upper
75	100
110	8.8 18.4 55.2#
77	0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.590 ug/l

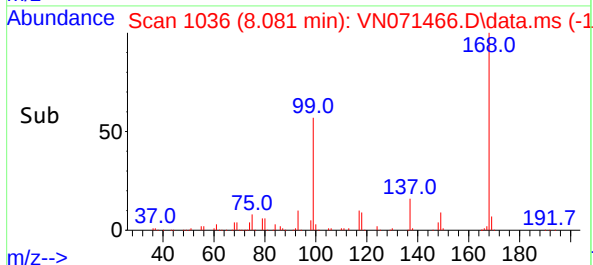
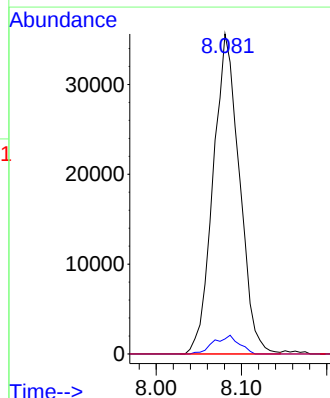
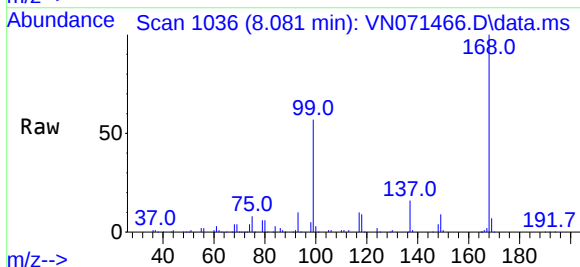
RT: 8.081 min Scan# 1036

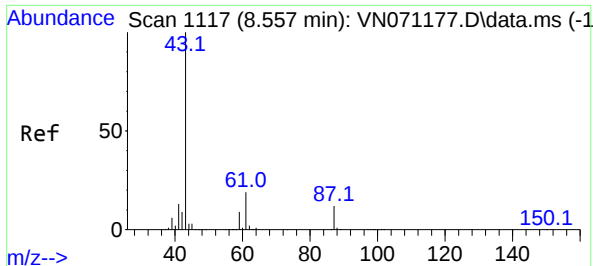
Delta R.T. -0.123 min

Lab File: VN071466.D

Acq: 22 Mar 2022 14:32

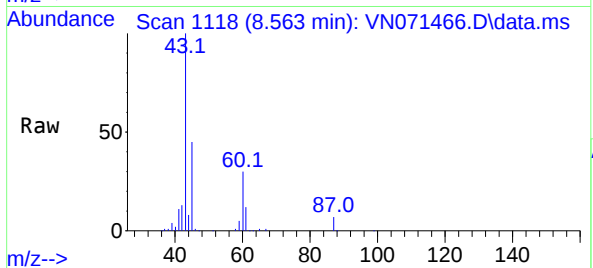
Tgt Ion: 117	Resp: 76467
Ion Ratio	Lower Upper
117	100
119	4.7 76.1 114.1#
121	0.0 24.2 36.2#



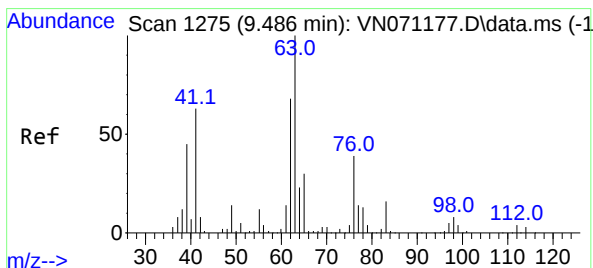
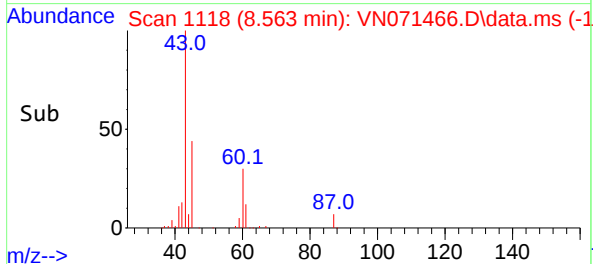
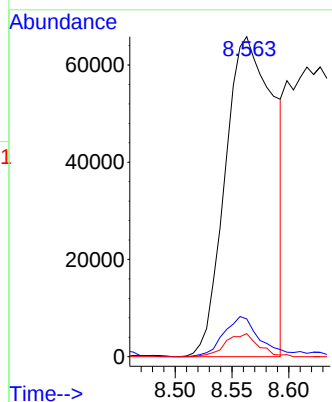


#43
Isopropyl Acetate
Concen: 6.786 ug/l
RT: 8.563 min Scan# 1117
Delta R.T. 0.006 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Instrument :
MSVOA_N
ClientSampleId :

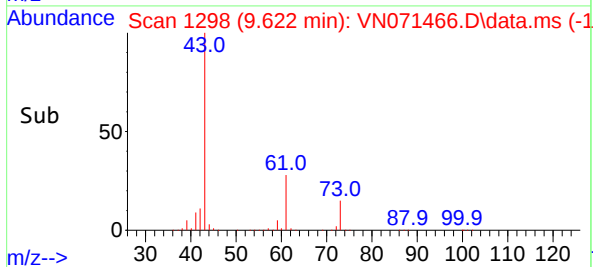
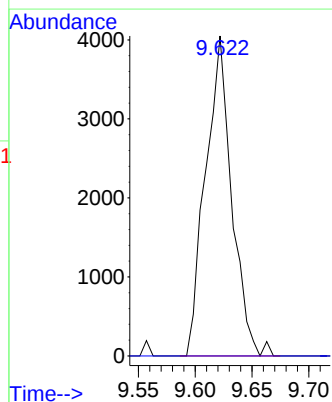
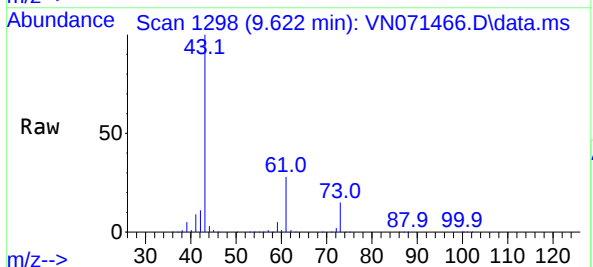


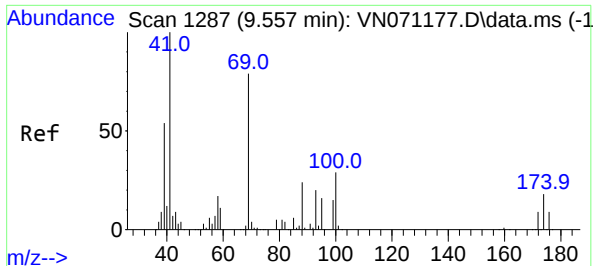
Tgt Ion: 43 Resp: 197499
Ion Ratio Lower Upper
43 100
61 9.3 20.4 30.6#
87 4.9 11.2 16.8#



#45
1,2-Dichloropropane
Concen: 0.568 ug/l
RT: 9.622 min Scan# 1298
Delta R.T. 0.136 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Tgt Ion: 63 Resp: 6500
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#





#48

Methyl methacrylate

Concen: 1.681 ug/l

RT: 9.539 min Scan# 1284

Delta R.T. -0.018 min

Lab File: VN071466.D

Acq: 22 Mar 2022 14:32

Instrument :

MSVOA_N

ClientSampleId :

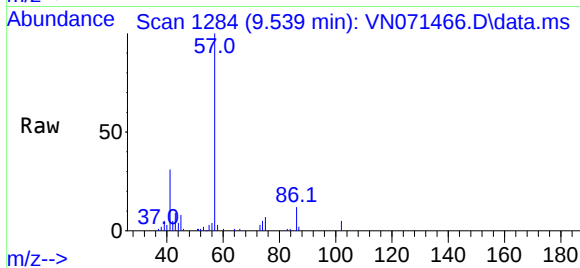
Tgt Ion: 41 Resp: 22672

Ion Ratio Lower Upper

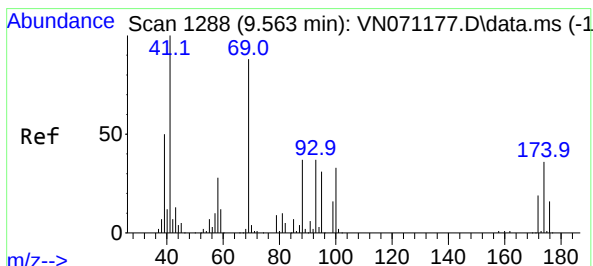
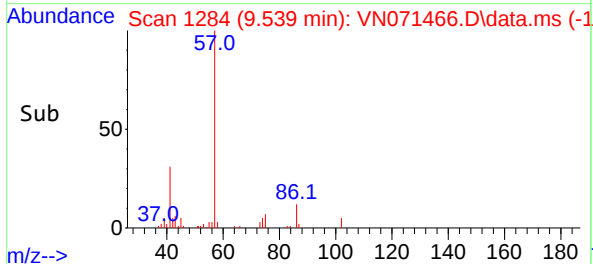
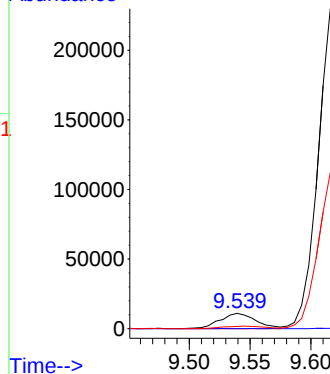
41 100

69 0.3 72.4 108.6#

39 0.0 58.4 87.6#



Abundance



#49

1,4-Dioxane

Concen: 3.237 ug/l

RT: 9.622 min Scan# 1298

Delta R.T. 0.059 min

Lab File: VN071466.D

Acq: 22 Mar 2022 14:32

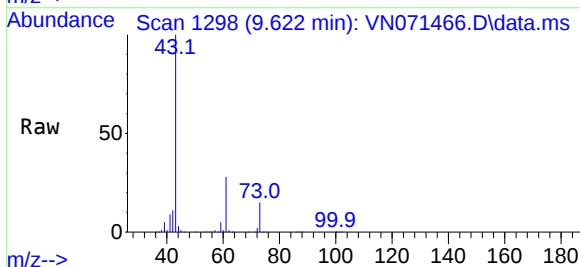
Tgt Ion: 88 Resp: 759

Ion Ratio Lower Upper

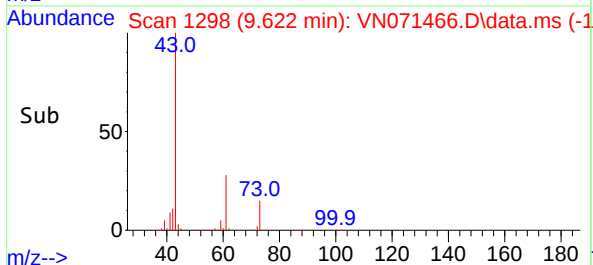
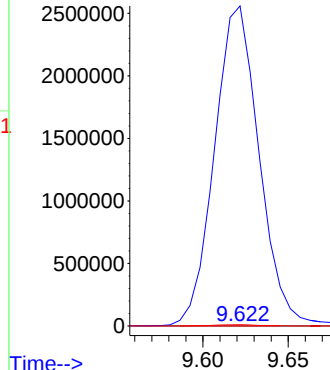
88 100

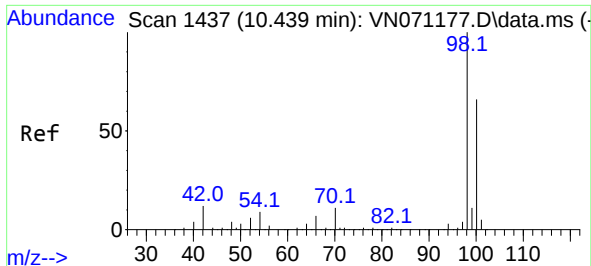
43 622741.1 23.4 35.2#

58 2580.6 50.6 75.8#



Abundance

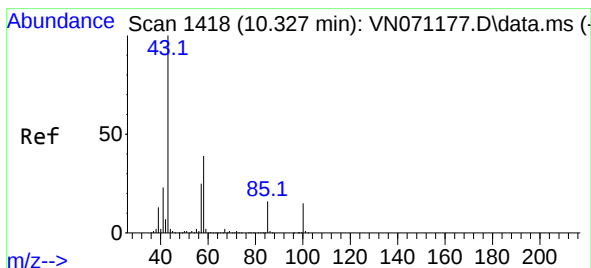
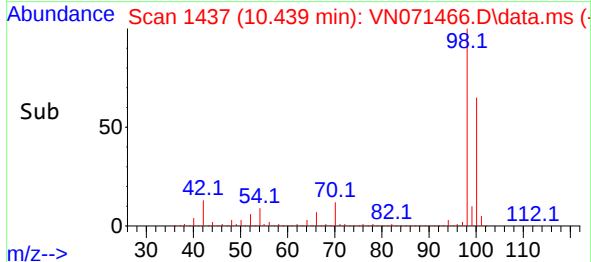
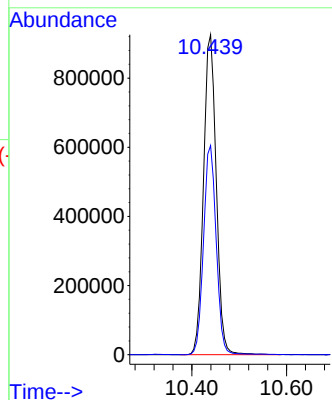
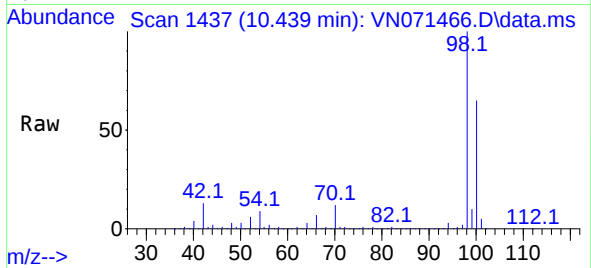




#50
Toluene-d8
Concen: 48.506 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

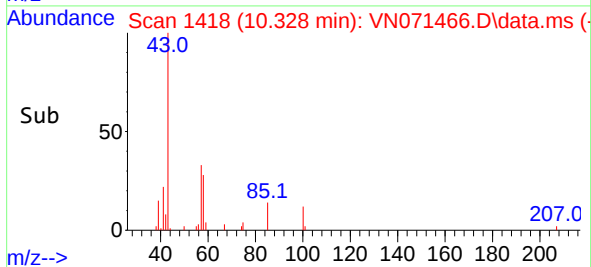
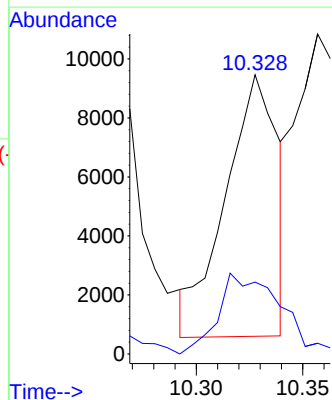
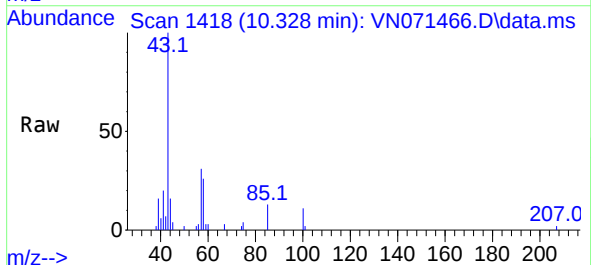
Instrument :
MSVOA_N
ClientSampleId :

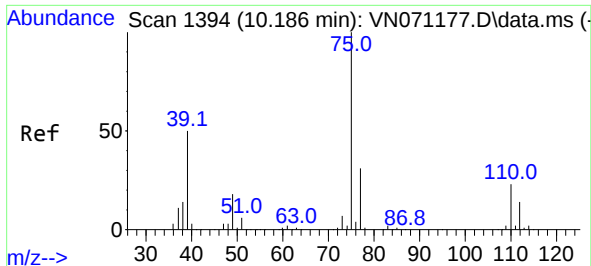
Tgt Ion: 98 Resp: 1723786
Ion Ratio Lower Upper
98 100
100 64.9 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.838 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. 0.001 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Tgt Ion: 43 Resp: 15145
Ion Ratio Lower Upper
43 100
58 36.3 30.4 45.6

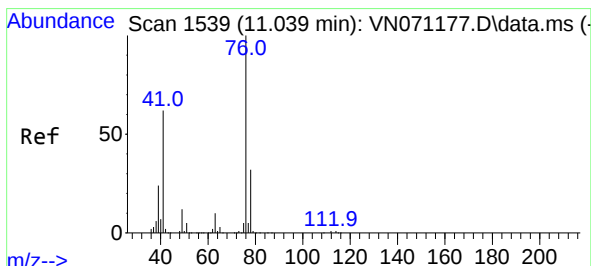
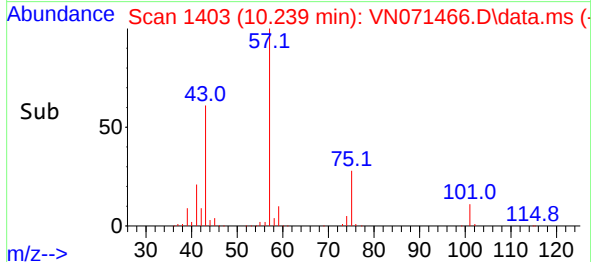
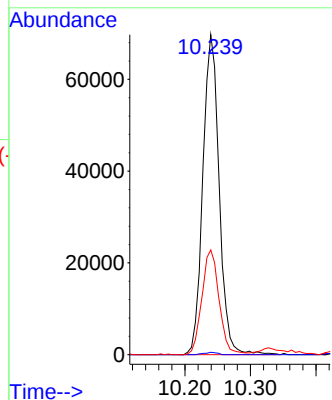
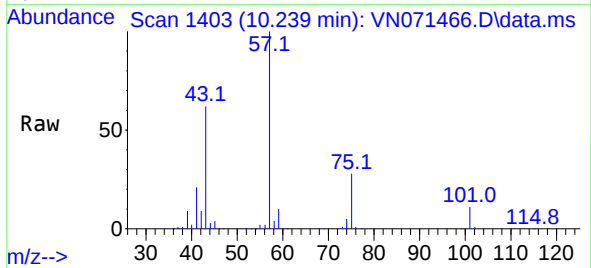




#54
 cis-1,3-Dichloropropene
 Concen: 7.068 ug/l
 RT: 10.239 min Scan# 14
 Delta R.T. 0.053 min
 Lab File: VN071466.D
 Acq: 22 Mar 2022 14:32

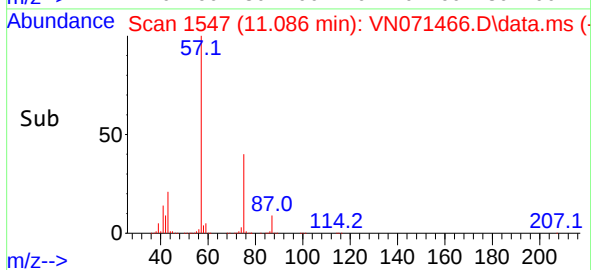
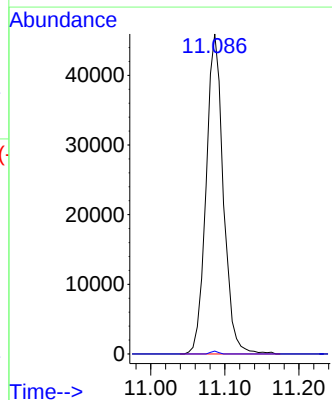
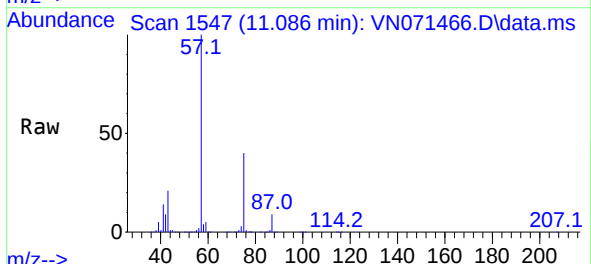
Instrument :
 MSVOA_N
 ClientSampleId :

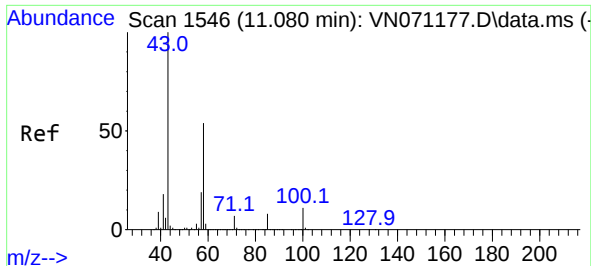
Tgt Ion: 75 Resp: 121113
 Ion Ratio Lower Upper
 75 100
 77 0.8 26.4 39.6#
 39 32.7 42.5 63.7#



#57
 1,3-Dichloropropane
 Concen: 3.931 ug/l
 RT: 11.086 min Scan# 1547
 Delta R.T. 0.047 min
 Lab File: VN071466.D
 Acq: 22 Mar 2022 14:32

Tgt Ion: 76 Resp: 74188
 Ion Ratio Lower Upper
 76 100
 78 0.4 25.7 38.5#

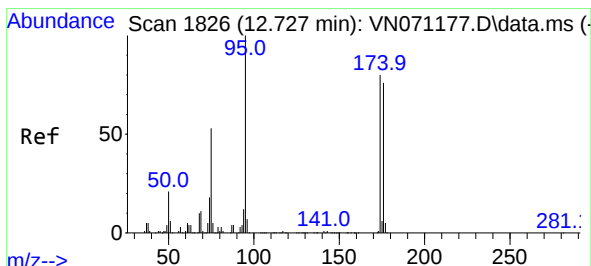
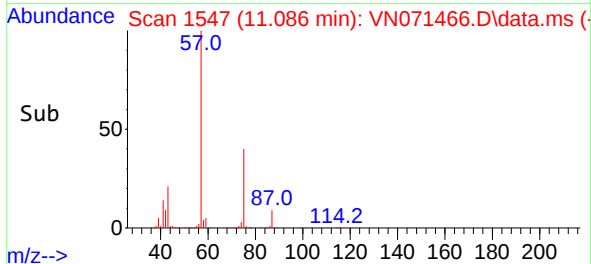
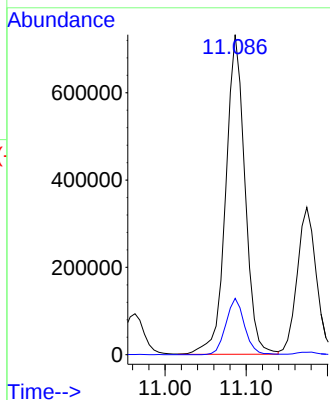
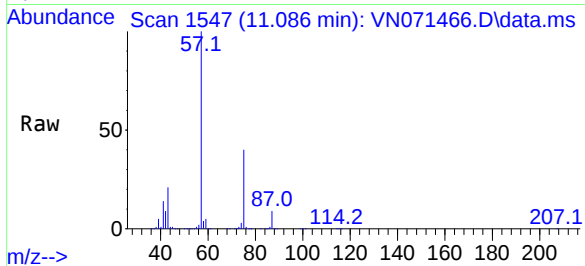




#59
2-Hexanone
Concen: 97.709 ug/l
RT: 11.086 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

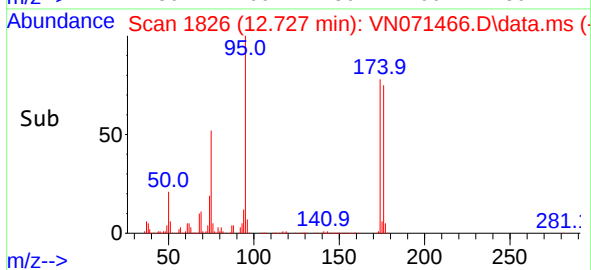
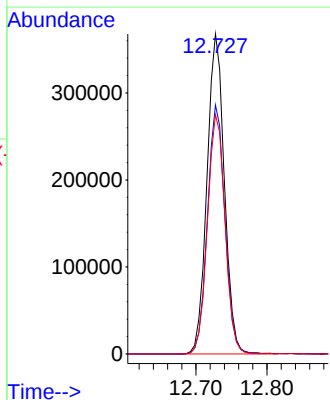
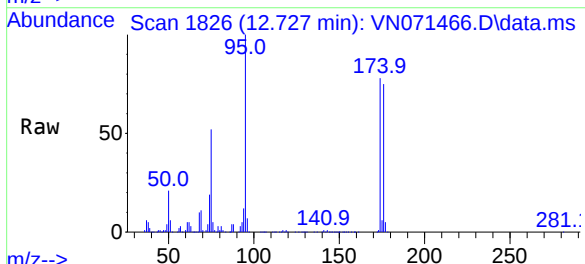
Instrument :
MSVOA_N
ClientSampleId :

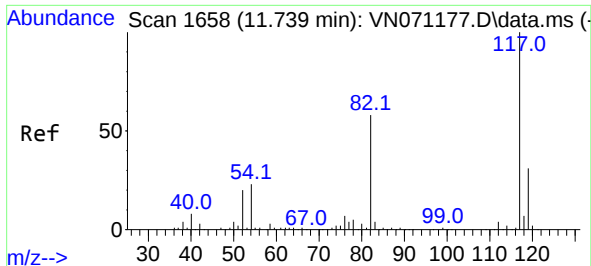
Tgt Ion: 43 Resp: 1204183
Ion Ratio Lower Upper
43 100
58 17.1 26.9 80.7#



#62
4-Bromofluorobenzene
Concen: 51.902 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Tgt Ion: 95 Resp: 624582
Ion Ratio Lower Upper
95 100
174 78.3 0.0 187.2
176 75.4 0.0 181.4

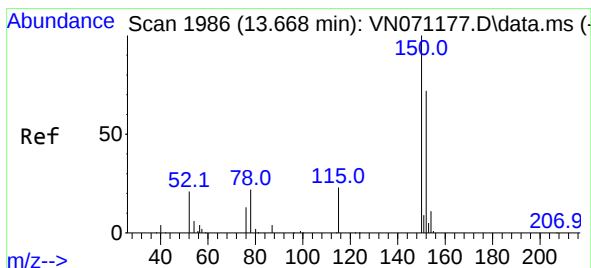
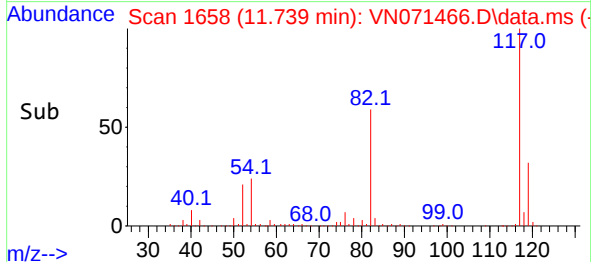
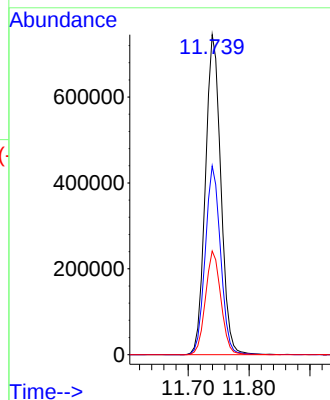
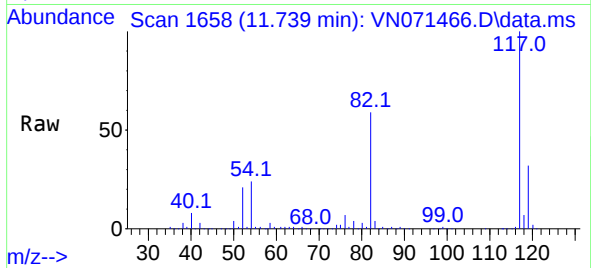




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

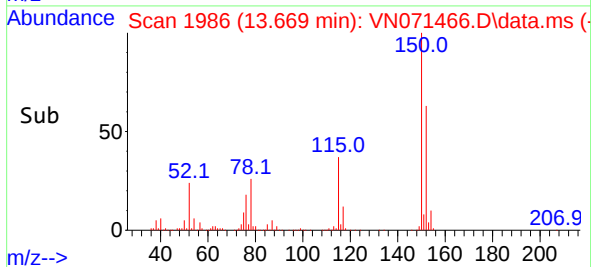
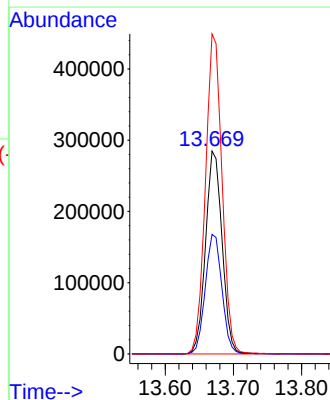
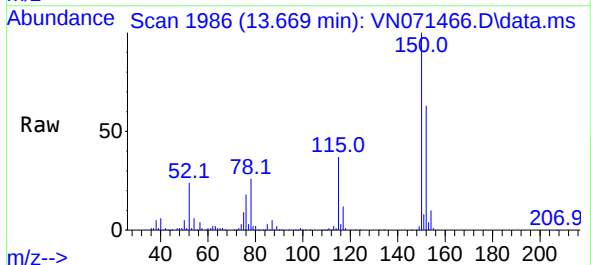
Instrument :
MSVOA_N
ClientSampleId :

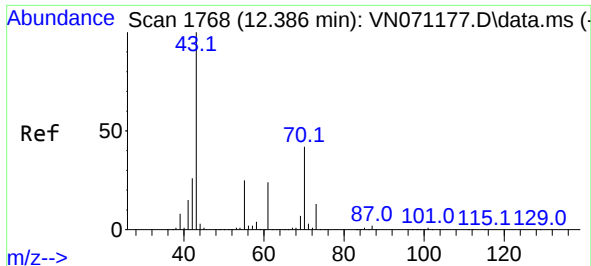
Tgt Ion:117 Resp: 1310611
Ion Ratio Lower Upper
117 100
82 59.0 42.4 63.6
119 32.4 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. 0.001 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

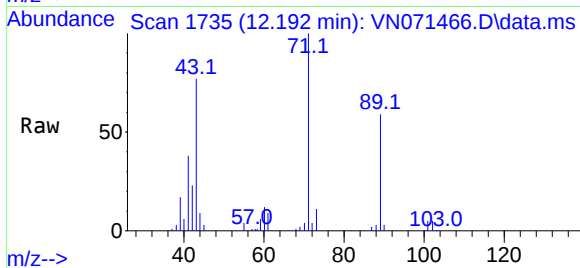
Tgt Ion:152 Resp: 481878
Ion Ratio Lower Upper
152 100
115 59.4 27.5 82.5
150 157.6 0.0 344.4



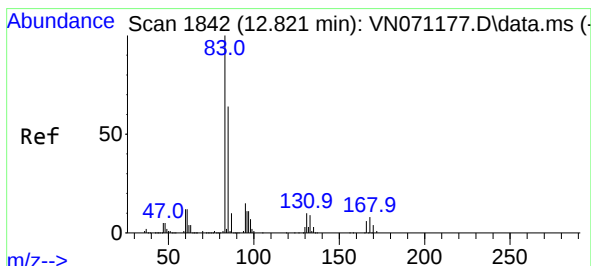
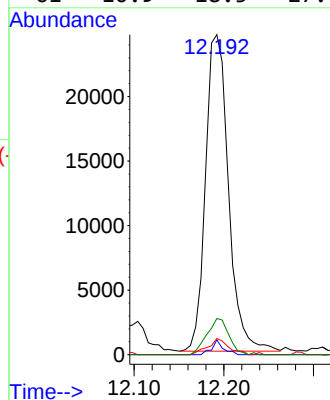
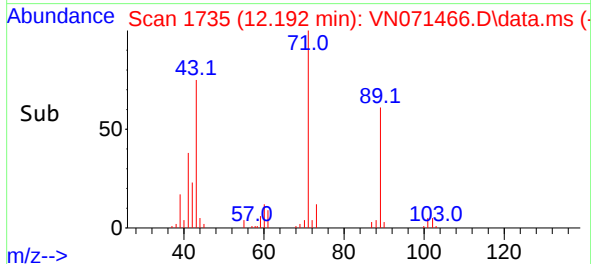


#74
N-amy1 acetate
Concen: 2.494 ug/l
RT: 12.192 min Scan# 11
Delta R.T. -0.194 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Instrument :
MSVOA_N
ClientSampleId :

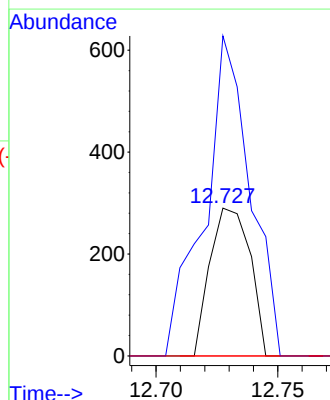
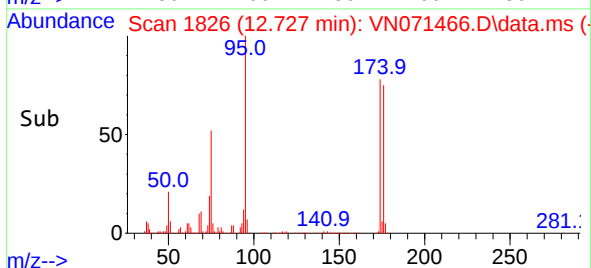
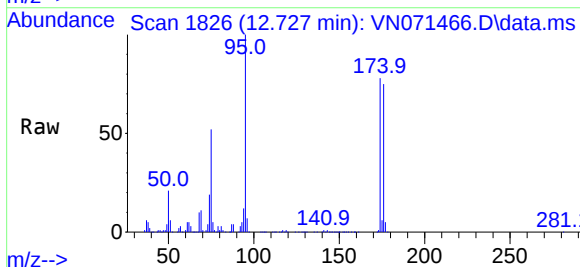


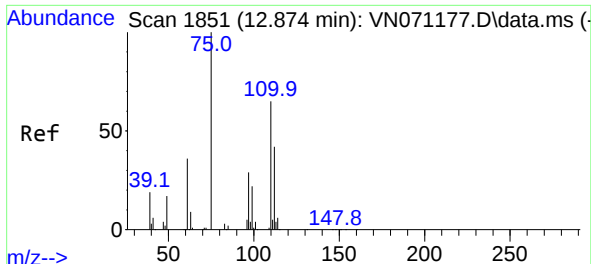
Tgt Ion: 43 Resp: 43559
Ion Ratio Lower Upper
43 100
70 2.3 33.4 50.0#
55 4.6 19.3 28.9#
61 10.9 18.5 27.7#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.727 min Scan# 1826
Delta R.T. -0.094 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Tgt Ion: 83 Resp: 331
Ion Ratio Lower Upper
83 100
131 247.7 5.5 16.5#
85 0.0 32.4 97.2#

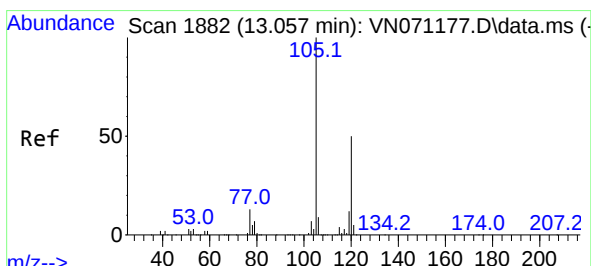
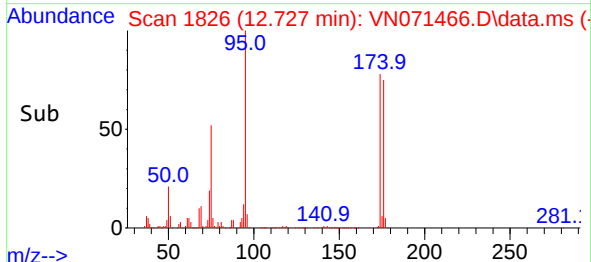
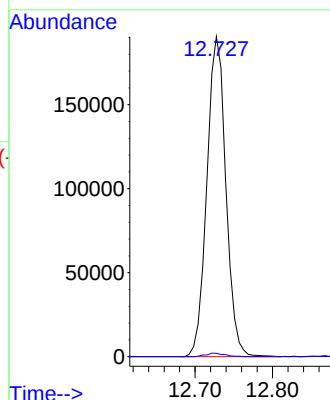
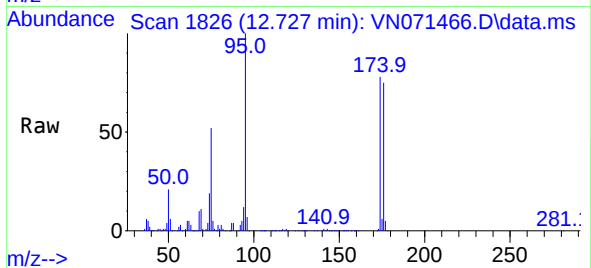




#76
1,2,3-Trichloropropane
Concen: 26.433 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

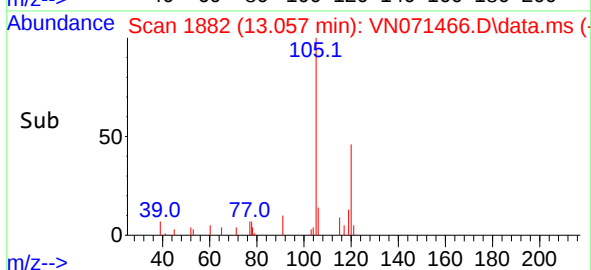
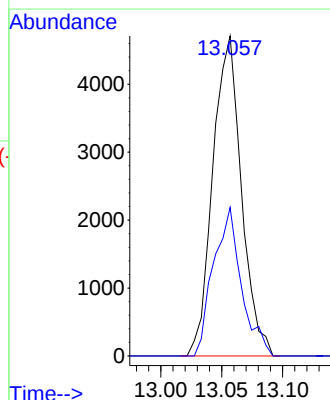
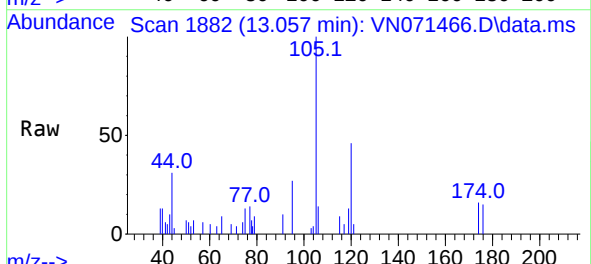
Instrument :
MSVOA_N
ClientSampleId :

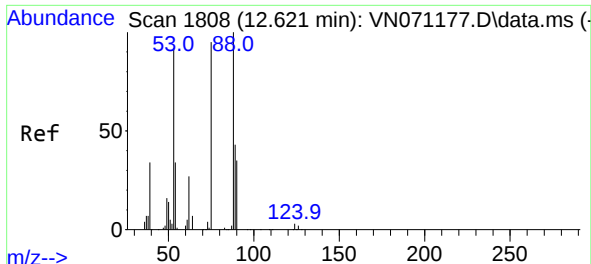
Tgt Ion: 75 Resp: 324247
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#80
1,3,5-Trimethylbenzene
Concen: 0.213 ug/l
RT: 13.057 min Scan# 1882
Delta R.T. 0.000 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Tgt Ion:105 Resp: 7695
Ion Ratio Lower Upper
105 100
120 45.4 24.6 73.6

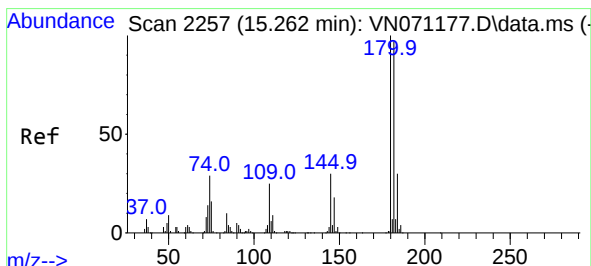
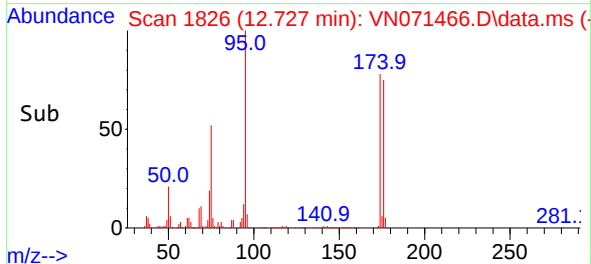
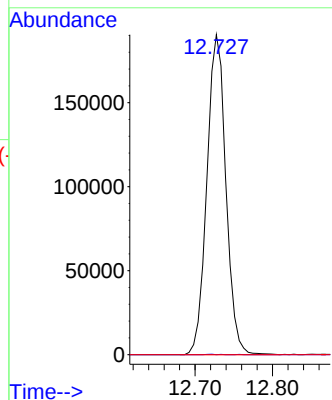
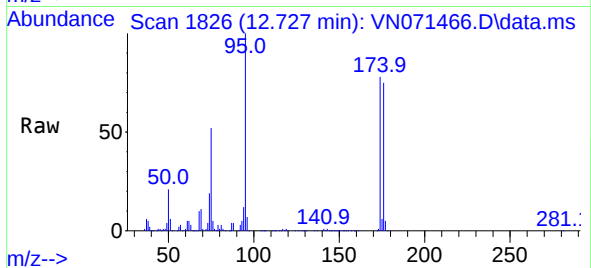




#81
trans-1,4-Dichloro-2-butene
Concen: 72.738 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.106 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

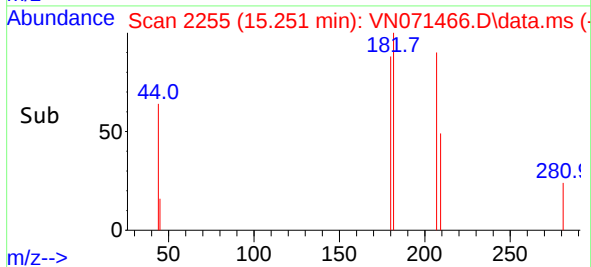
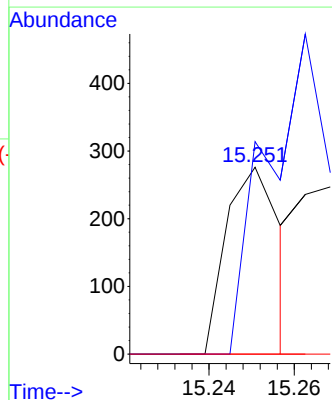
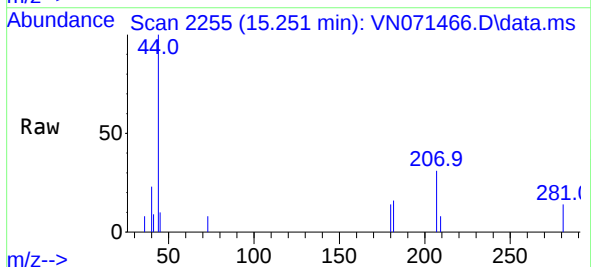
Instrument :
MSVOA_N
ClientSampleId :

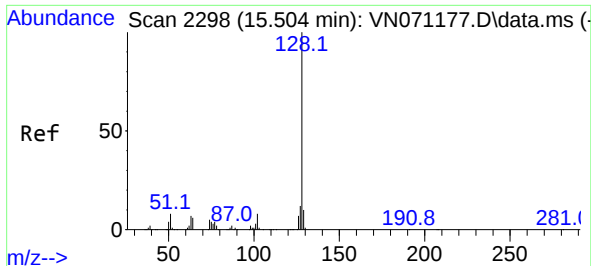
Tgt Ion: 75 Resp: 324247
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#93
1,2,4-Trichlorobenzene
Concen: 3.018 ug/l
RT: 15.251 min Scan# 2255
Delta R.T. -0.011 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Tgt Ion: 180 Resp: 242
Ion Ratio Lower Upper
180 100
182 221.9 48.3 144.9#
145 0.0 14.5 43.5#

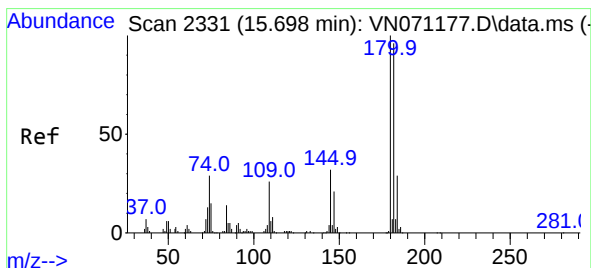
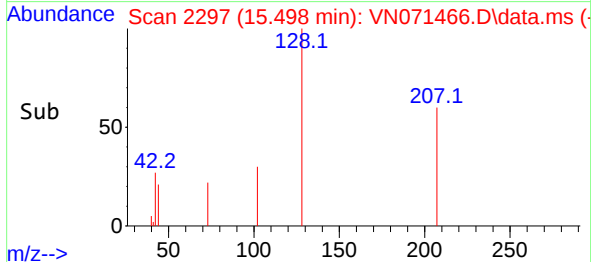
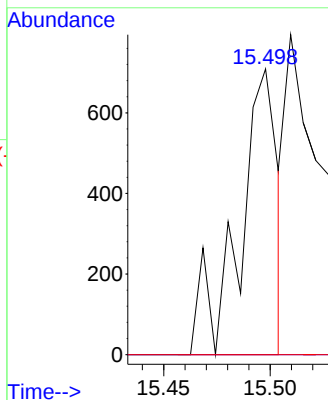
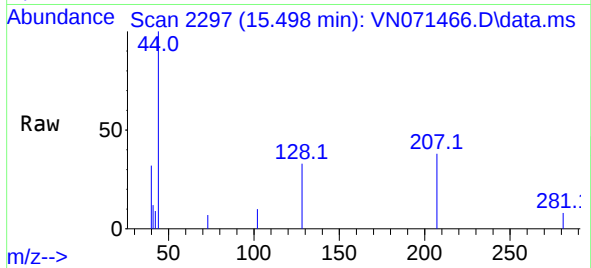




#95
Naphthalene
Concen: 5.104 ug/l
RT: 15.498 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 892
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.786 ug/l
RT: 15.692 min Scan# 2330
Delta R.T. -0.006 min
Lab File: VN071466.D
Acq: 22 Mar 2022 14:32

Tgt Ion:180 Resp: 435
Ion Ratio Lower Upper
180 100
182 83.4 47.4 142.2
145 0.0 15.0 45.1#

