

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040822\
 Data File : VN071919.D
 Acq On : 08 Apr 2022 17:08
 Operator : JC\MD
 Sample : N2308-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MID0422

Quant Time: Apr 09 05:06:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N033022W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 31 01:57:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.080	168	600309	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1012225	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1068634	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	396287	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	324663	47.374	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	94.740%
35) Dibromofluoromethane	8.022	113	290275	48.734	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	97.460%
50) Toluene-d8	10.439	98	1281312	52.586	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	105.180%
62) 4-Bromofluorobenzene	12.727	95	431211	54.720	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	109.440%

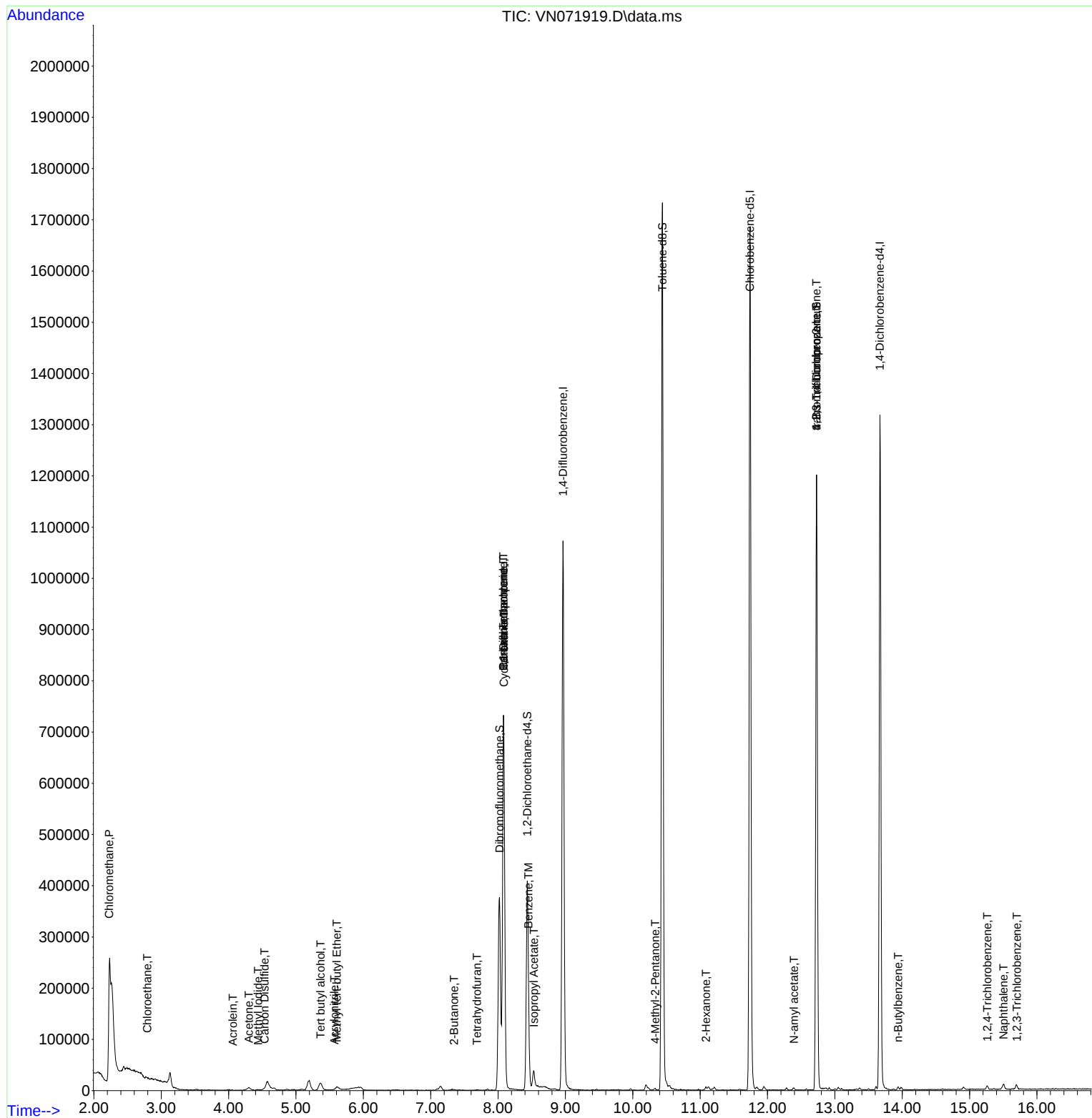
Target Compounds				Qvalue		
3) Chloromethane	2.228	50	6649	1.099	ug/l #	43
6) Chloroethane	2.793	64	18974	3.971	ug/l #	46
10) Methyl Iodide	4.439	142	1960	0.269	ug/l #	58
11) Tert butyl alcohol	5.363	59	28046	25.217	ug/l	96
13) Acrolein	4.063	56	641	0.473	ug/l #	76
15) Acrylonitrile	5.569	53	1095	0.339	ug/l #	69
16) Acetone	4.298	43	6925	2.364	ug/l	90
17) Carbon Disulfide	4.534	76	4197	0.369	ug/l #	75
18) Methyl Acetate	4.863	43	3186	Below Cal	#	64
19) Methyl tert-butyl Ether	5.604	73	6501	0.353	ug/l #	81
25) 2-Butanone	7.345	43	2462	0.583	ug/l #	80
29) Tetrahydrofuran	7.686	42	631	0.231	ug/l #	68
31) Cyclohexane	8.086	56	16126	1.730	ug/l #	33
36) 1,1-Dichloropropene	8.080	75	39950	4.803	ug/l #	48
38) Carbon Tetrachloride	8.080	117	53932	6.616	ug/l #	16
40) Benzene	8.451	78	20862	0.794	ug/l	91
43) Isopropyl Acetate	8.533	43	8065	0.533	ug/l #	53
49) 1,4-Dioxane	9.580	88	54	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.333	43	2706	0.311	ug/l #	82
59) 2-Hexanone	11.086	43	5041	0.822	ug/l	99
74) N-amyl acetate	12.392	43	2686	0.281	ug/l #	97
76) 1,2,3-Trichloropropane	12.727	75	209617	22.833	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	209617	70.760	ug/l #	10
89) n-Butylbenzene	13.939	91	4172	0.225	ug/l	90
93) 1,2,4-Trichlorobenzene	15.262	180	3367	2.597	ug/l	99
95) Naphthalene	15.503	128	13386	4.488	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.703	180	4400	3.100	ug/l	96

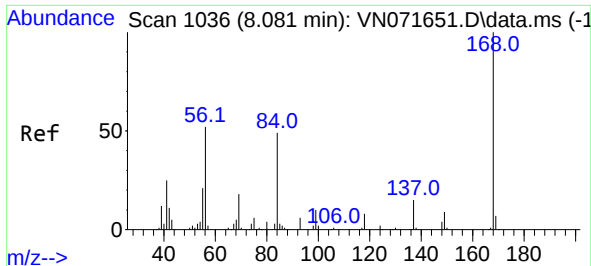
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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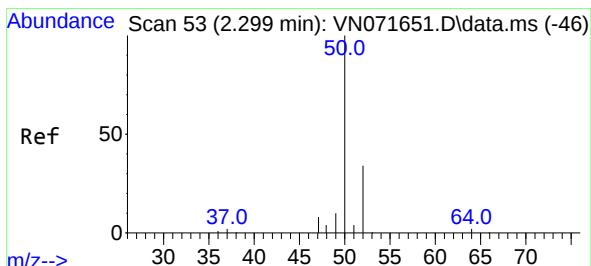
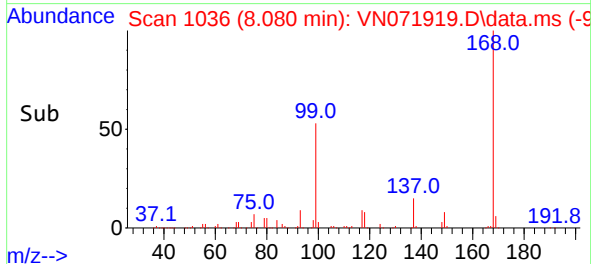
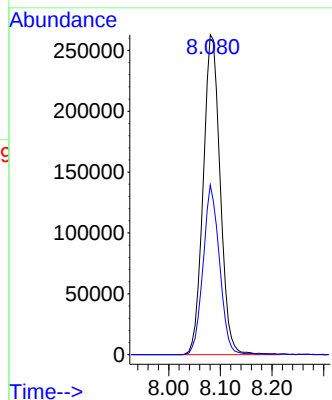
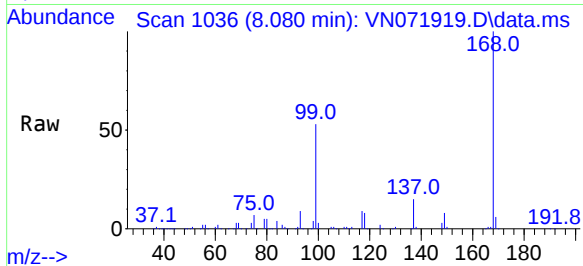




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.080 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

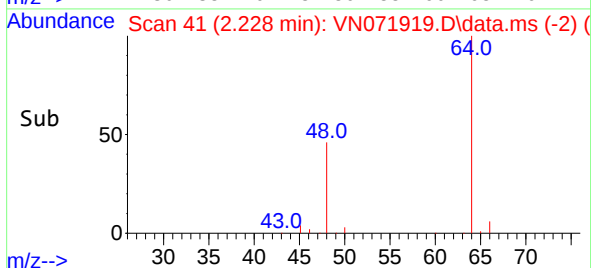
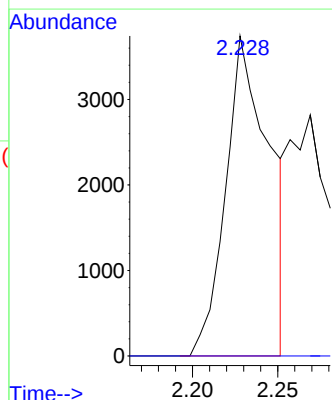
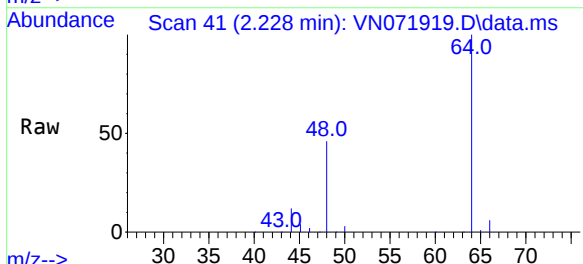
Instrument :
MSVOA_N
ClientSampleId :
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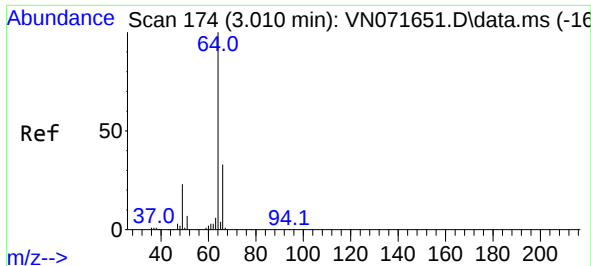
Tgt Ion:168 Resp: 600309
Ion Ratio Lower Upper
168 100
99 53.1 42.3 63.5



#3
Chloromethane
Concen: 1.099 ug/l
RT: 2.228 min Scan# 41
Delta R.T. -0.071 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 50 Resp: 6649
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

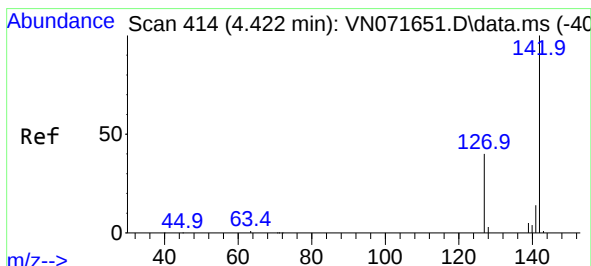
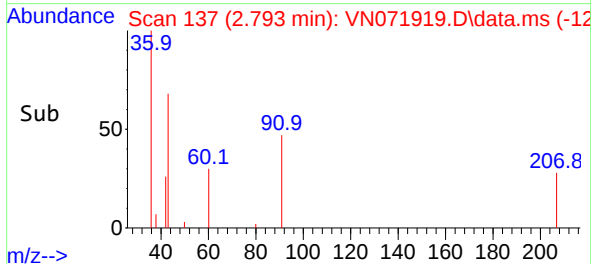
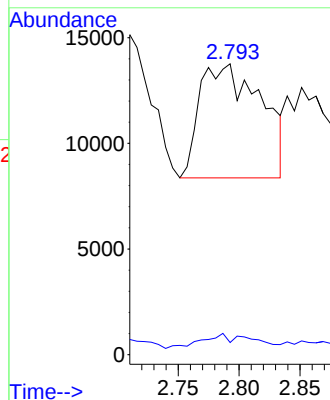
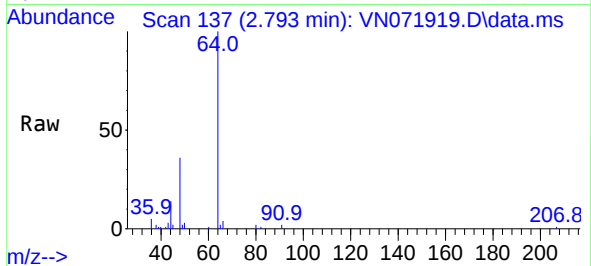




#6
Chloroethane
Concen: 3.971 ug/l
RT: 2.793 min Scan# 11
Delta R.T. -0.217 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

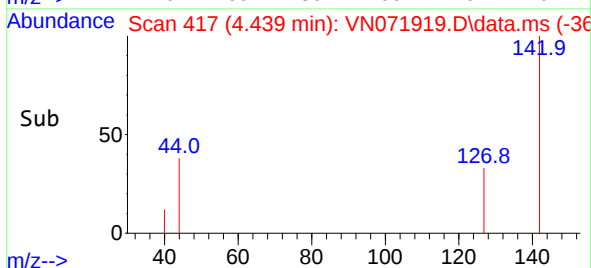
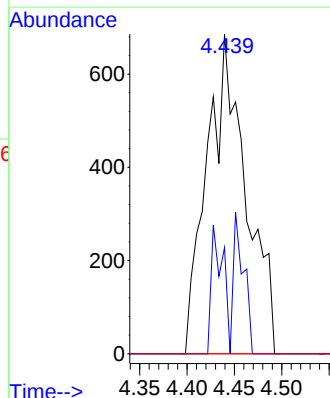
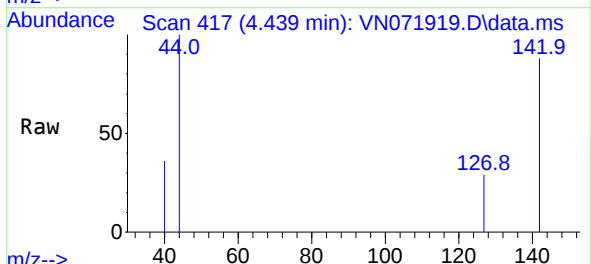
Instrument :
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ClientSampleId :
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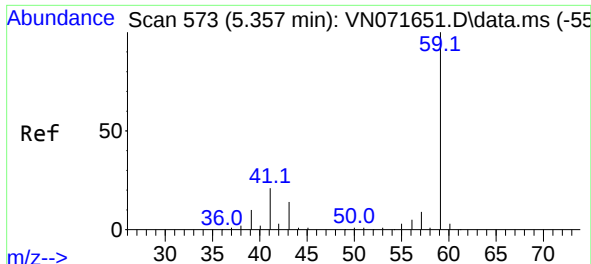
Tgt Ion: 64 Resp: 18974
Ion Ratio Lower Upper
64 100
66 2.6 26.2 39.4#



#10
Methyl Iodide
Concen: 0.269 ug/l
RT: 4.439 min Scan# 417
Delta R.T. 0.018 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 142 Resp: 1960
Ion Ratio Lower Upper
142 100
127 11.8 31.3 46.9#
141 0.0 11.2 16.8#

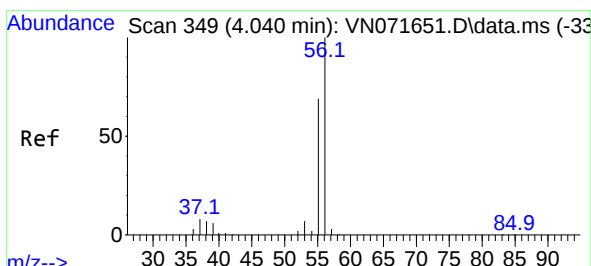
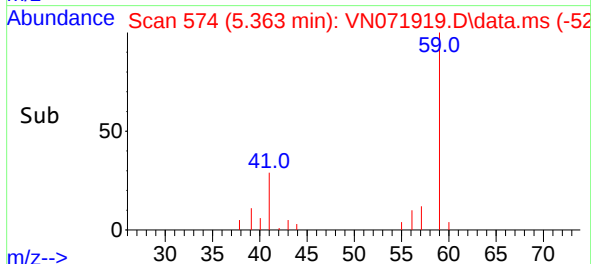
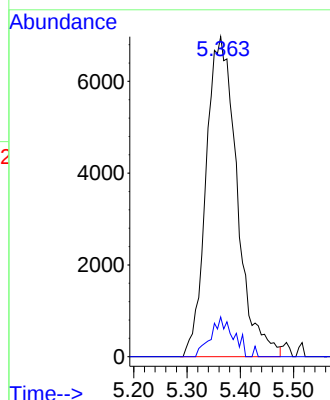
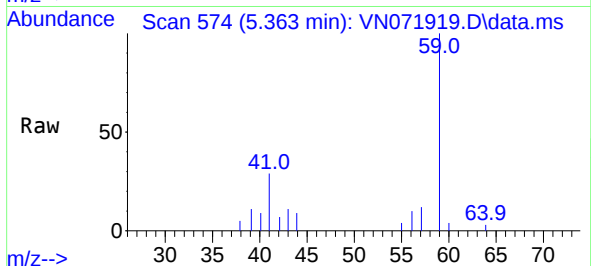




#11
Tert butyl alcohol
Concen: 25.217 ug/l
RT: 5.363 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

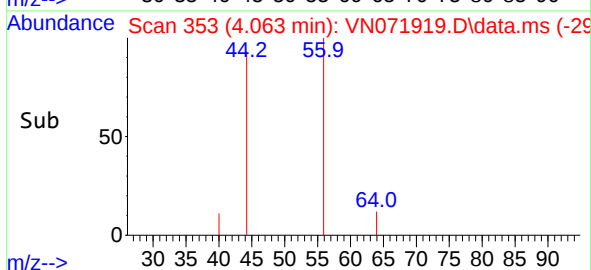
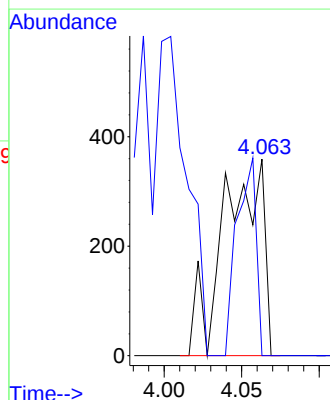
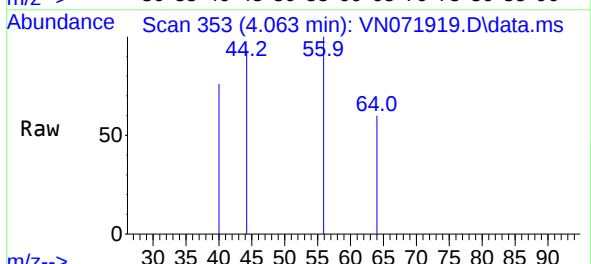
Instrument :
MSVOA_N
ClientSampleId :
MID0422

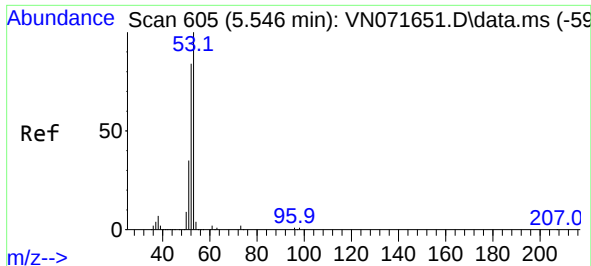
Tgt Ion: 59 Resp: 28046
Ion Ratio Lower Upper
59 100
57 8.9 8.3 12.5



#13
Acrolein
Concen: 0.473 ug/l
RT: 4.063 min Scan# 353
Delta R.T. 0.023 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 56 Resp: 641
Ion Ratio Lower Upper
56 100
55 48.7 54.8 82.2#

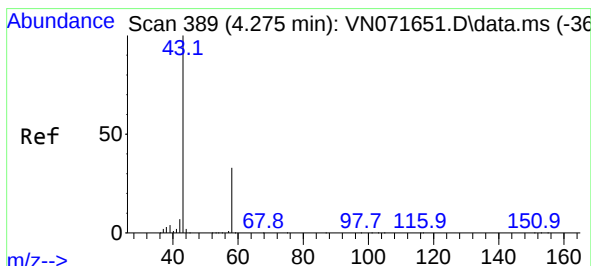
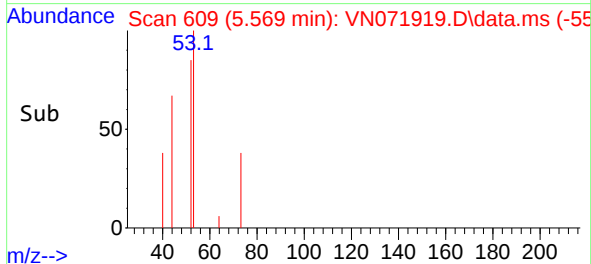
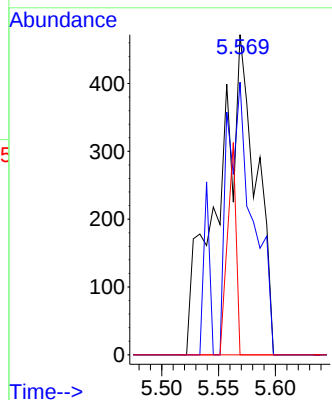
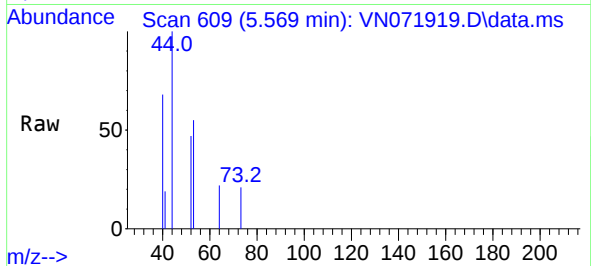




#15
Acrylonitrile
Concen: 0.339 ug/l
RT: 5.569 min Scan# 609
Delta R.T. 0.023 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

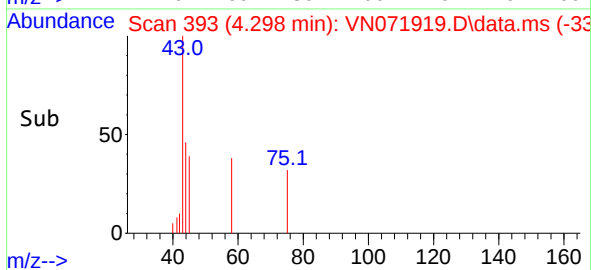
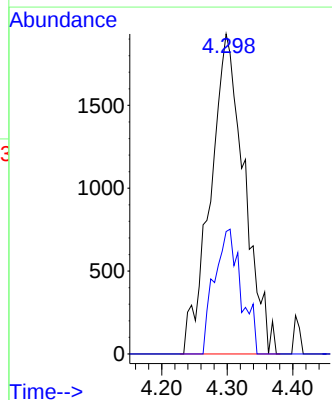
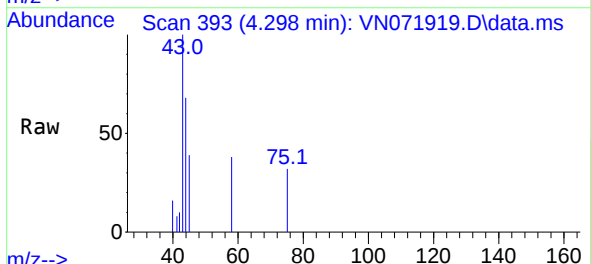
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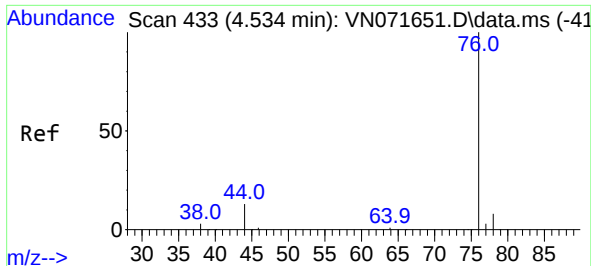
Tgt Ion: 53 Resp: 1095
Ion Ratio Lower Upper
53 100
52 57.2 66.4 99.6#
51 15.3 28.5 42.7#



#16
Acetone
Concen: 2.364 ug/l
RT: 4.298 min Scan# 393
Delta R.T. 0.023 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 43 Resp: 6925
Ion Ratio Lower Upper
43 100
58 38.3 26.0 39.0

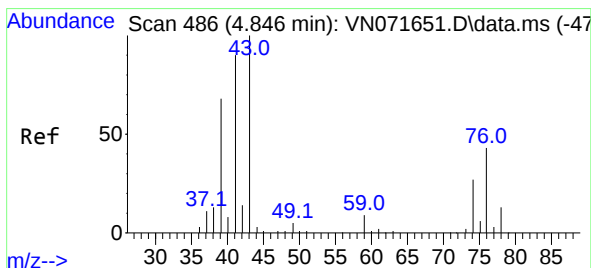
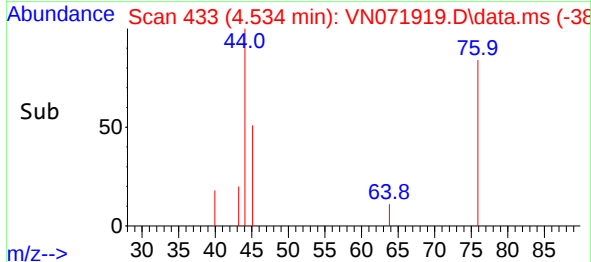
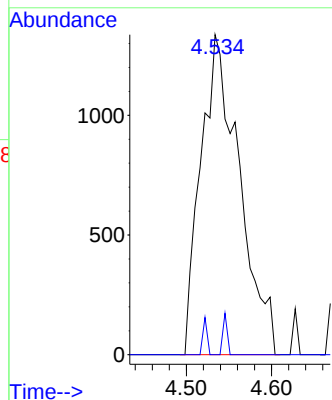
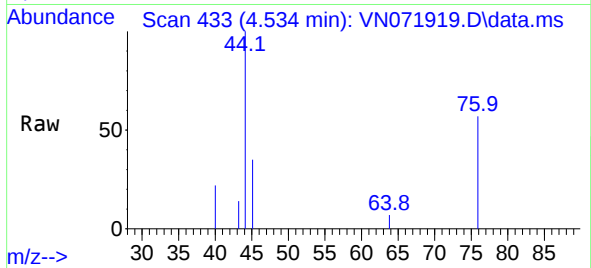




#17
Carbon Disulfide
Concen: 0.369 ug/l
RT: 4.534 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

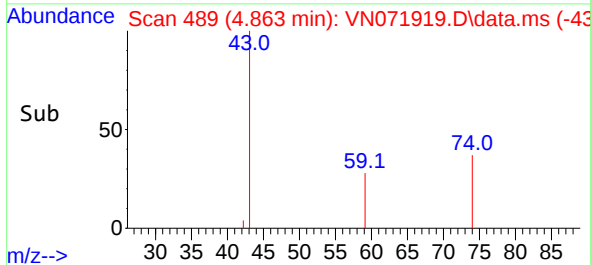
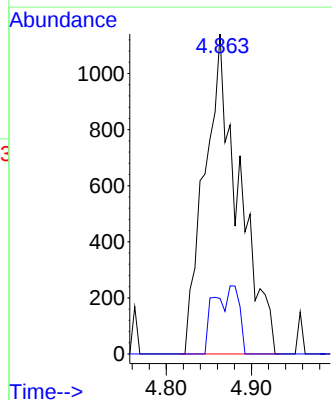
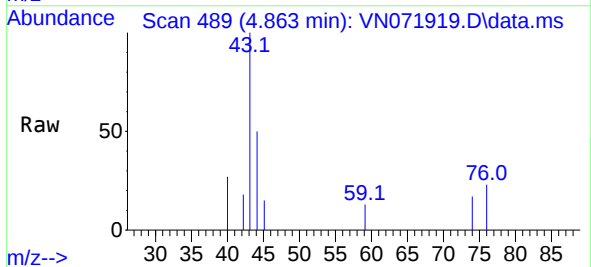
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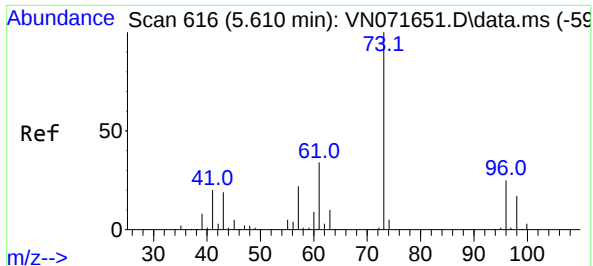
Tgt Ion: 76 Resp: 4197
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.863 min Scan# 489
Delta R.T. 0.017 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 43 Resp: 3186
Ion Ratio Lower Upper
43 100
74 8.3 21.6 32.4#

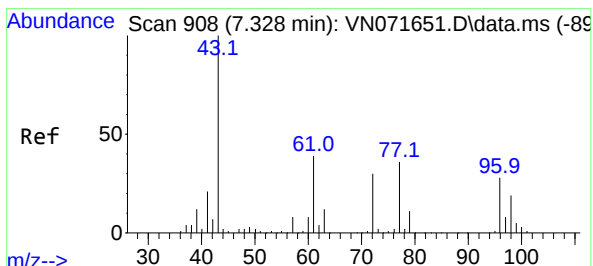
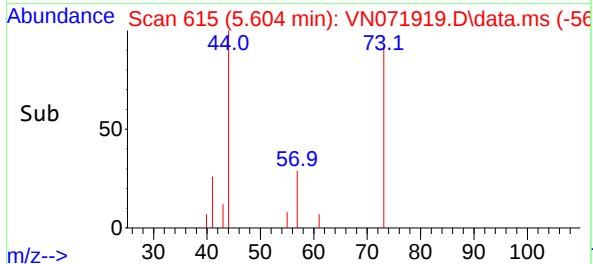
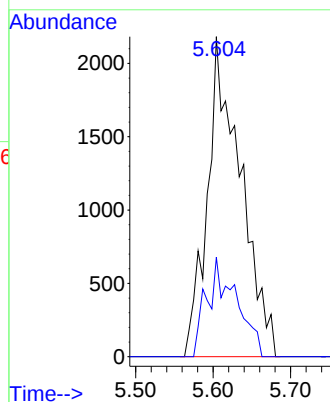
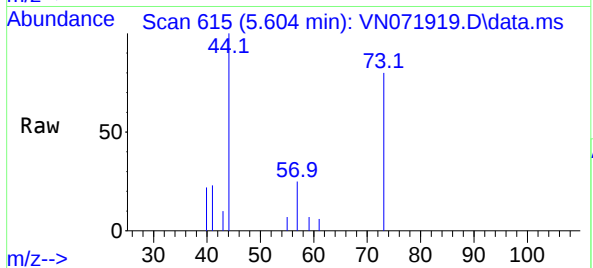




#19
Methyl tert-butyl Ether
Concen: 0.353 ug/l
RT: 5.604 min Scan# 616
Delta R.T. -0.006 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

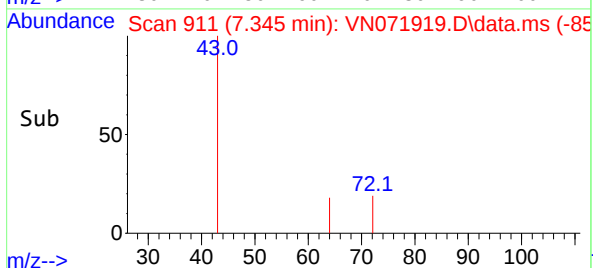
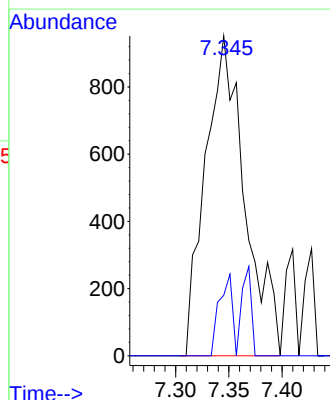
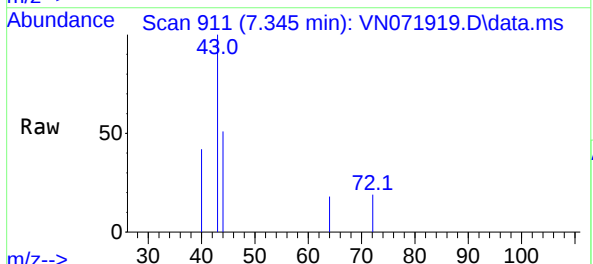
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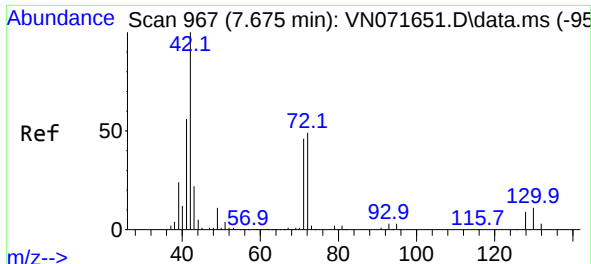
Tgt Ion: 73 Resp: 6501
Ion Ratio Lower Upper
73 100
57 31.1 17.6 26.4#



#25
2-Butanone
Concen: 0.583 ug/l
RT: 7.345 min Scan# 911
Delta R.T. 0.017 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 43 Resp: 2462
Ion Ratio Lower Upper
43 100
72 18.9 23.7 35.5#





#29

Tetrahydrofuran

Concen: 0.231 ug/l

RT: 7.686 min Scan# 9

Delta R.T. 0.011 min

Lab File: VN071919.D

Acq: 08 Apr 2022 17:08

Instrument :

MSVOA_N

ClientSampleId :

MID0422

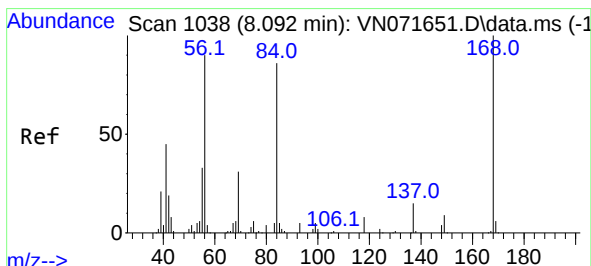
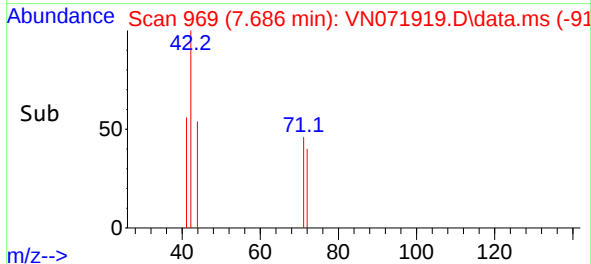
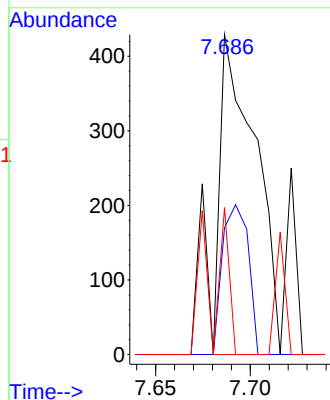
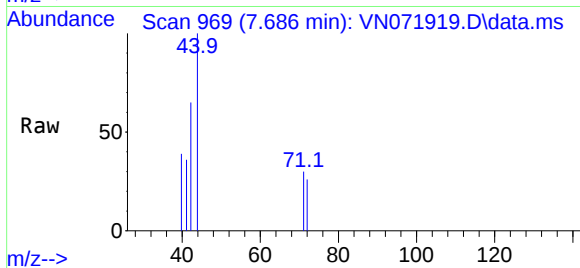
Tgt Ion: 42 Resp: 631

Ion Ratio Lower Upper

42 100

72 30.1 39.7 59.5#

71 21.9 36.6 55.0#



#31

Cyclohexane

Concen: 1.730 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VN071919.D

Acq: 08 Apr 2022 17:08

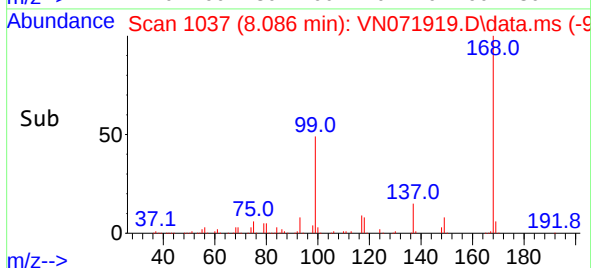
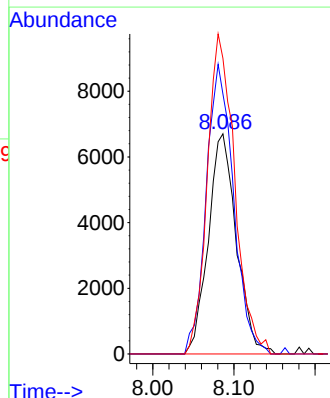
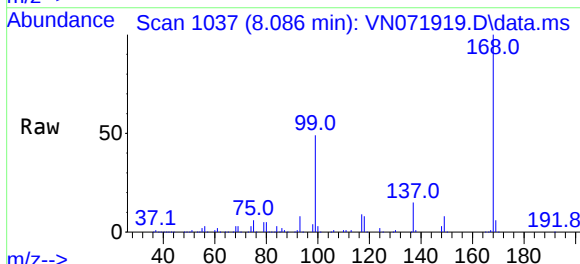
Tgt Ion: 56 Resp: 16126

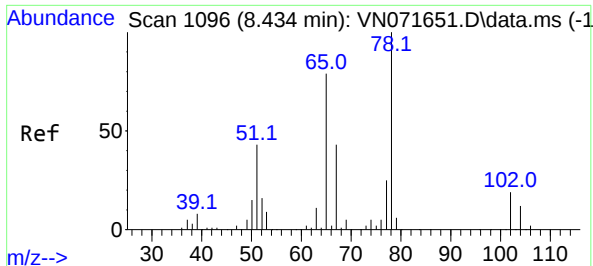
Ion Ratio Lower Upper

56 100

69 118.1 27.8 41.8#

84 134.2 76.9 115.3#

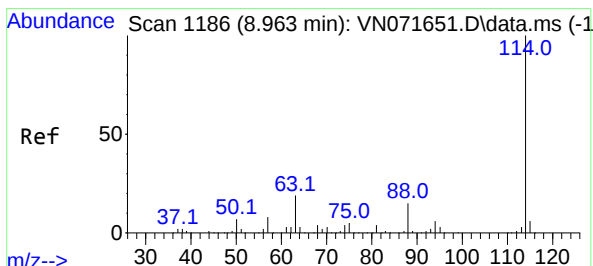
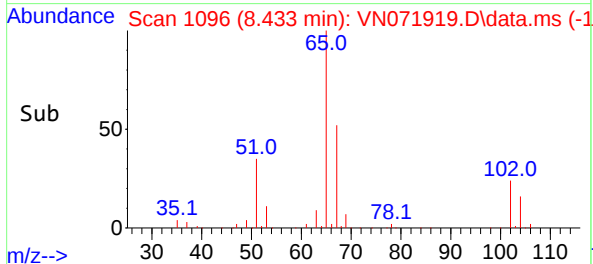
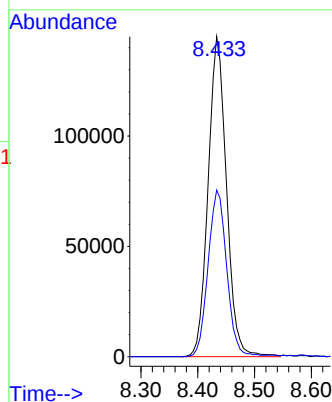
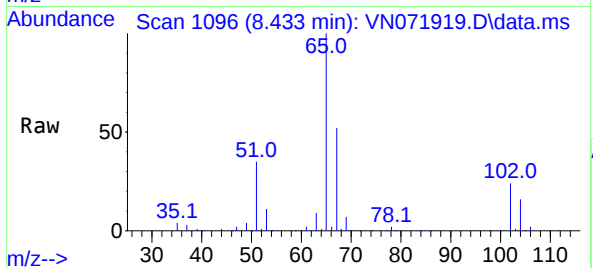




#33
1,2-Dichloroethane-d4
Concen: 47.374 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.001 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

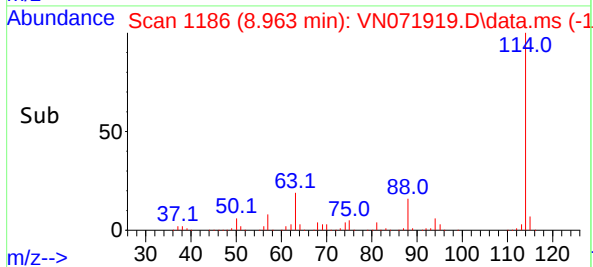
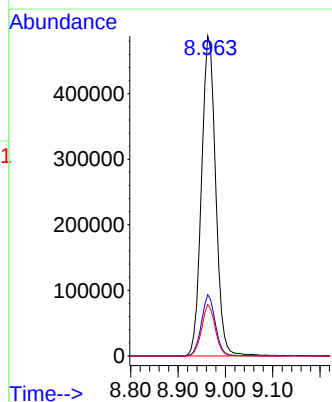
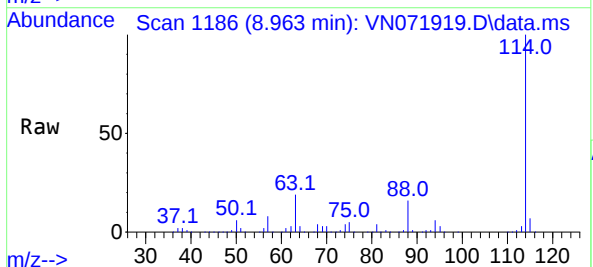
Instrument :
MSVOA_N
ClientSampleId :
MID0422

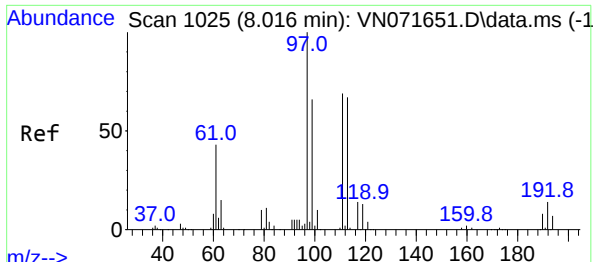
Tgt Ion: 65 Resp: 324663
Ion Ratio Lower Upper
65 100
67 52.9 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 114 Resp: 1012225
Ion Ratio Lower Upper
114 100
63 19.2 0.0 40.0
88 16.1 0.0 32.6

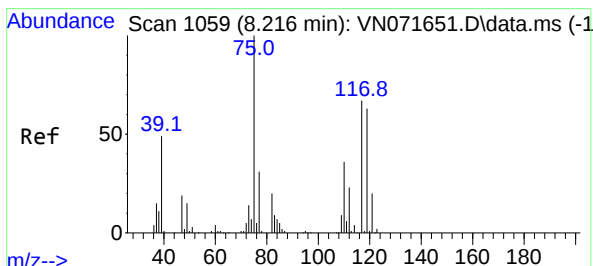
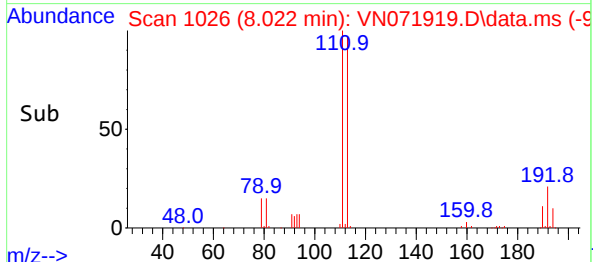
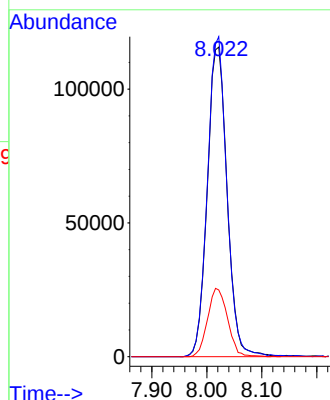
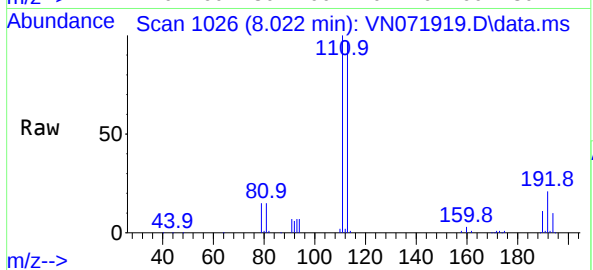




#35
Dibromofluoromethane
Concen: 48.734 ug/l
RT: 8.022 min Scan# 1026
Delta R.T. 0.006 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

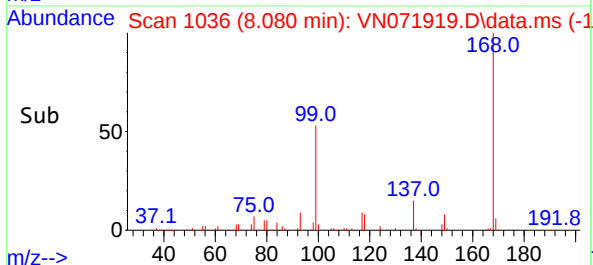
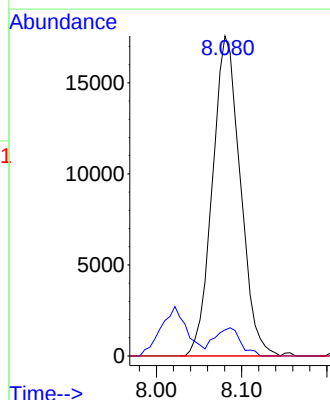
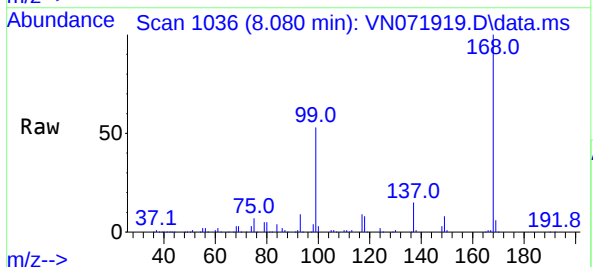
Instrument :
MSVOA_N
ClientSampleId :
MID0422

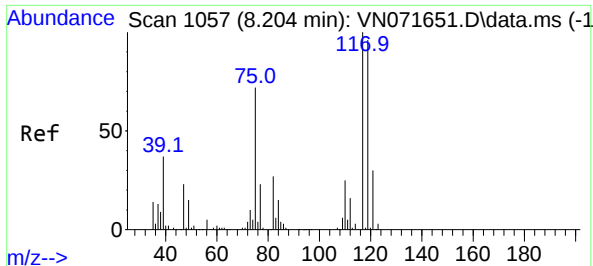
Tgt Ion:113 Resp: 290275
Ion Ratio Lower Upper
113 100
111 101.4 81.4 122.0
192 22.2 17.0 25.6



#36
1,1-Dichloropropene
Concen: 4.803 ug/l
RT: 8.080 min Scan# 1036
Delta R.T. -0.136 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 75 Resp: 39950
Ion Ratio Lower Upper
75 100
110 8.2 18.3 54.8#
77 0.0 25.1 37.7#

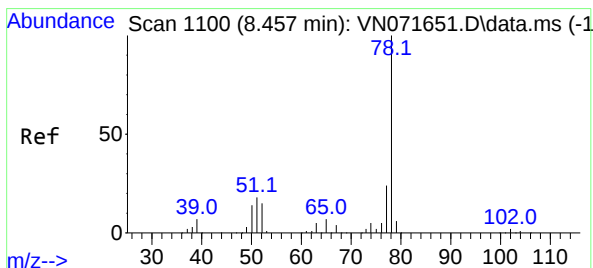
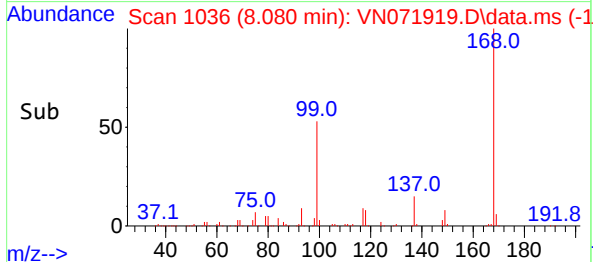
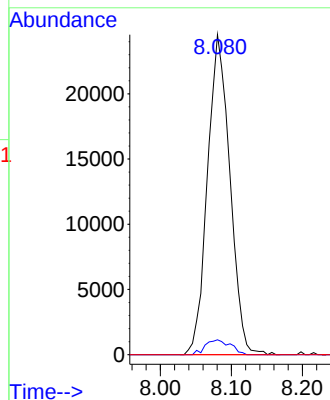
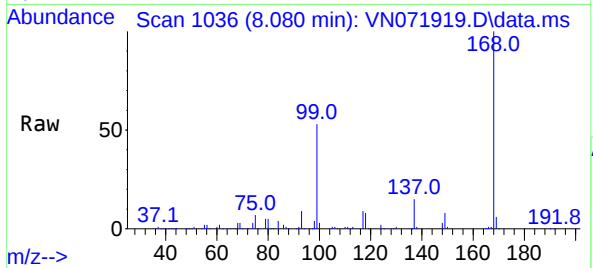




#38
Carbon Tetrachloride
Concen: 6.616 ug/l
RT: 8.080 min Scan# 1099
Delta R.T. -0.124 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

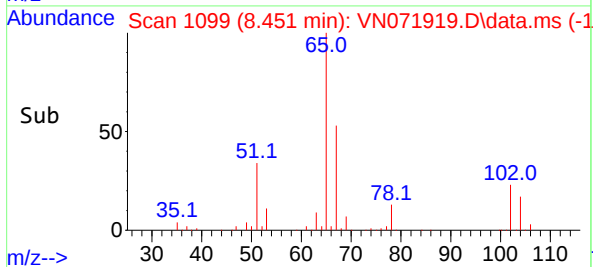
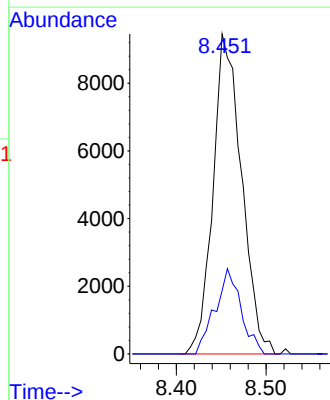
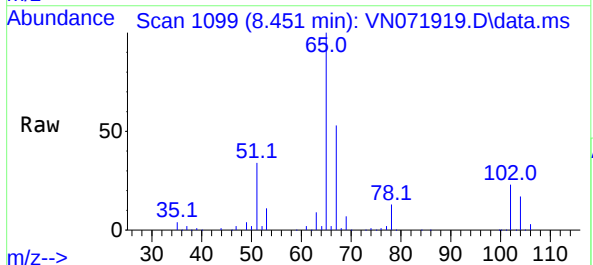
Instrument :
MSVOA_N
ClientSampleId :
MID0422

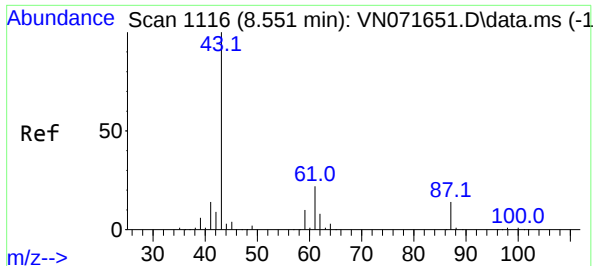
Tgt Ion:117 Resp: 53932
Ion Ratio Lower Upper
117 100
119 4.6 75.8 113.8#
121 0.0 24.6 37.0#



#40
Benzene
Concen: 0.794 ug/l
RT: 8.451 min Scan# 1099
Delta R.T. -0.006 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 78 Resp: 20862
Ion Ratio Lower Upper
78 100
77 19.8 19.4 29.0

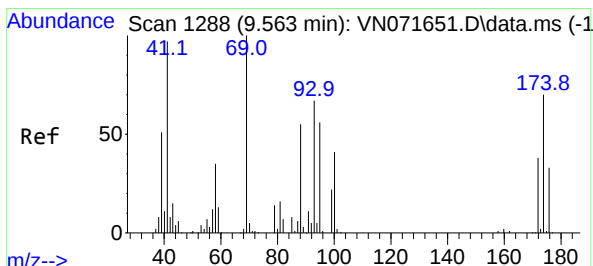
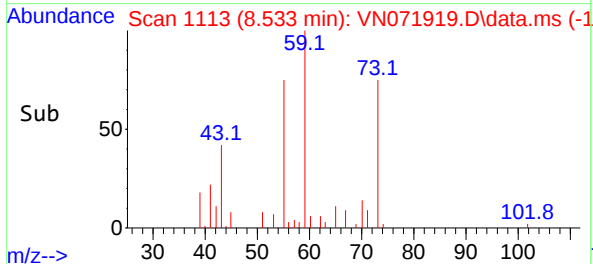
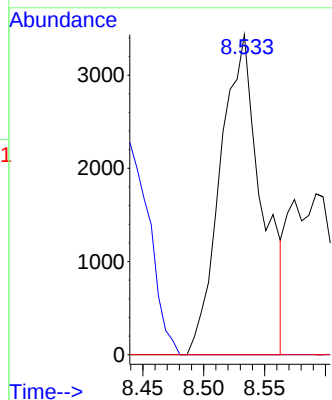
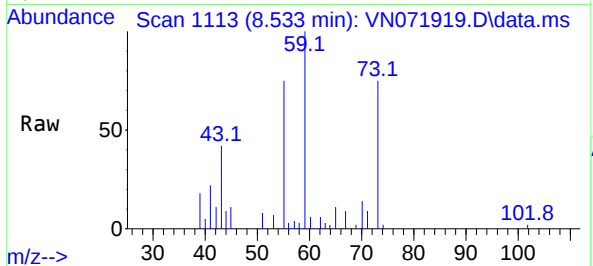




#43
Isopropyl Acetate
Concen: 0.533 ug/l
RT: 8.533 min Scan# 1116
Delta R.T. -0.018 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

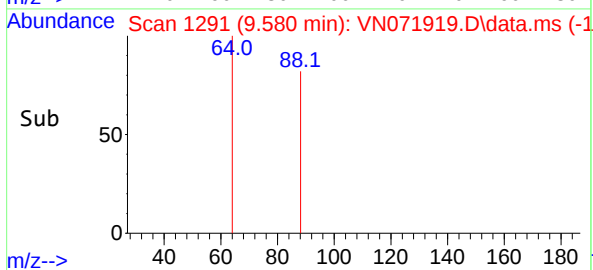
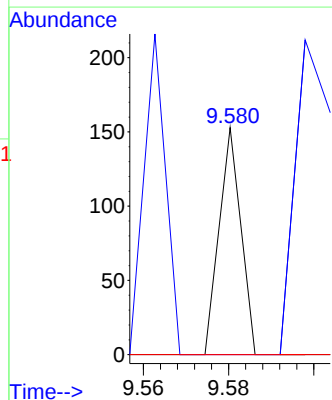
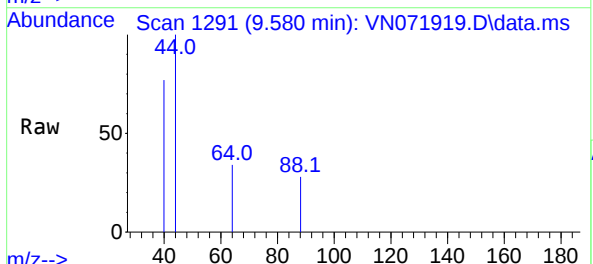
Instrument :
MSVOA_N
ClientSampleId :
MID0422

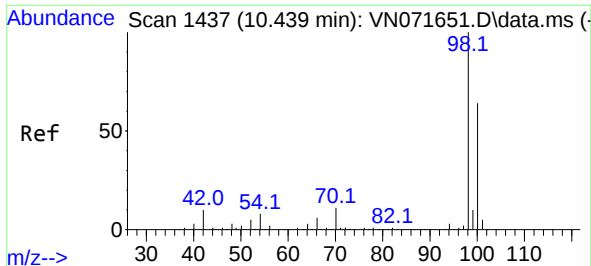
Tgt Ion: 43 Resp: 8065
Ion Ratio Lower Upper
43 100
61 0.0 21.9 32.9#
87 0.0 12.0 18.0#



#49
1,4-Dioxane
Concen: Below Cal
RT: 9.580 min Scan# 1291
Delta R.T. 0.017 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 140.7 20.2 30.4#
58 0.0 54.2 81.4#

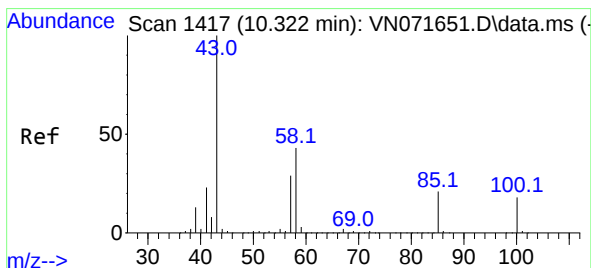
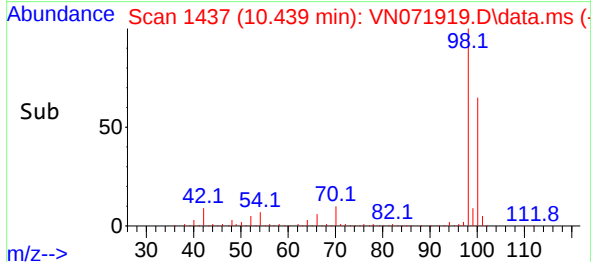
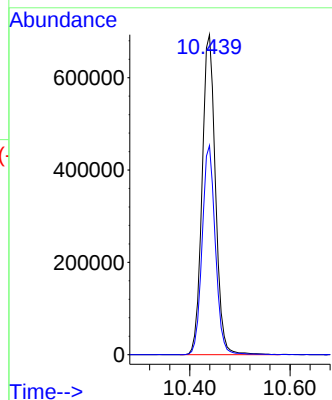
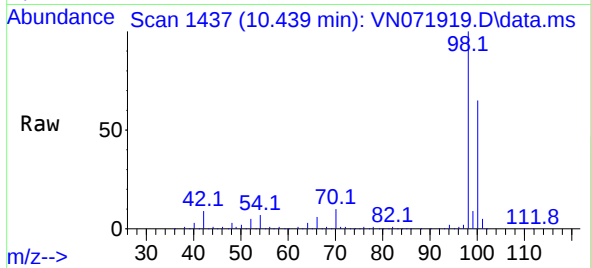




#50
Toluene-d8
Concen: 52.586 ug/l
RT: 10.439 min Scan# 1419
Delta R.T. 0.000 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

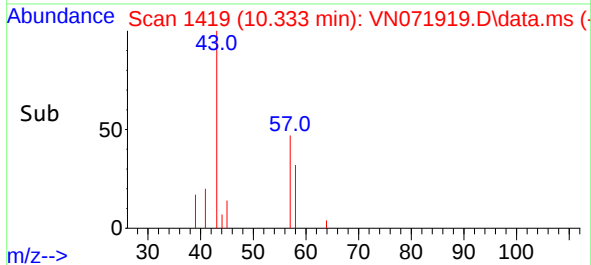
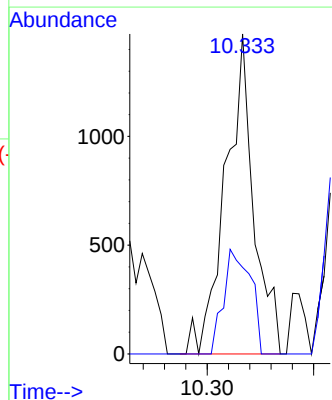
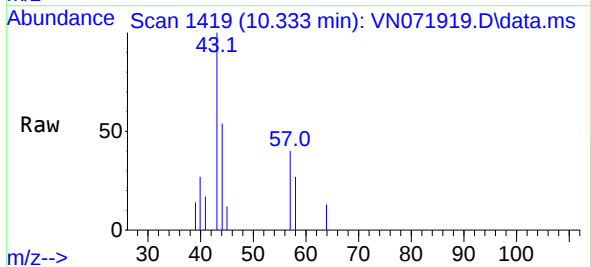
Instrument :
MSVOA_N
ClientSampleId :
MID0422

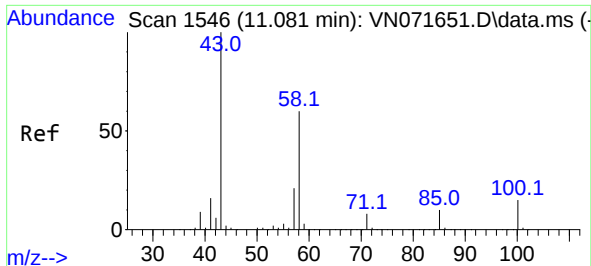
Tgt Ion: 98 Resp: 1281312
Ion Ratio Lower Upper
98 100
100 64.7 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.311 ug/l
RT: 10.333 min Scan# 1419
Delta R.T. 0.011 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 43 Resp: 2706
Ion Ratio Lower Upper
43 100
58 31.3 34.1 51.1#

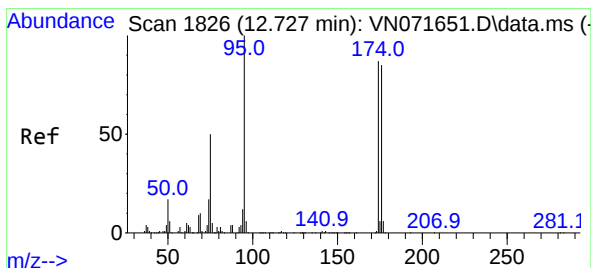
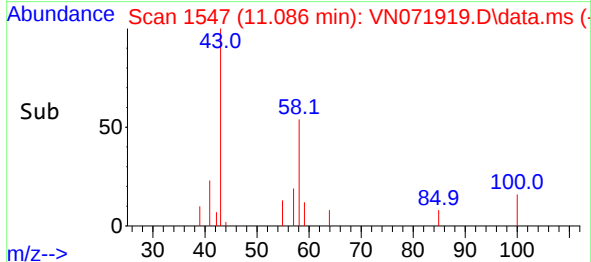
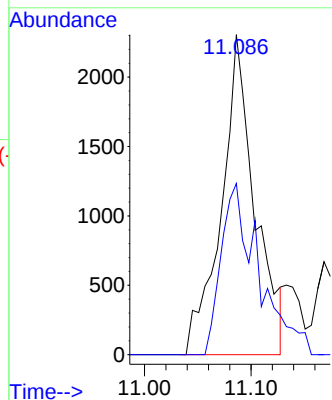
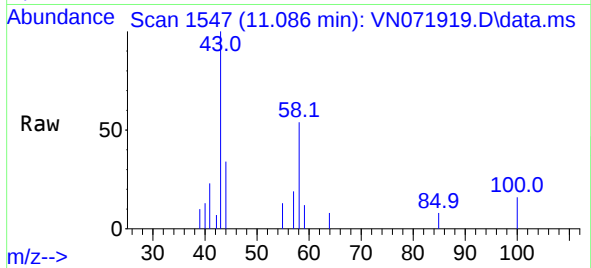




#59
2-Hexanone
Concen: 0.822 ug/l
RT: 11.086 min Scan# 1546
Delta R.T. 0.005 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

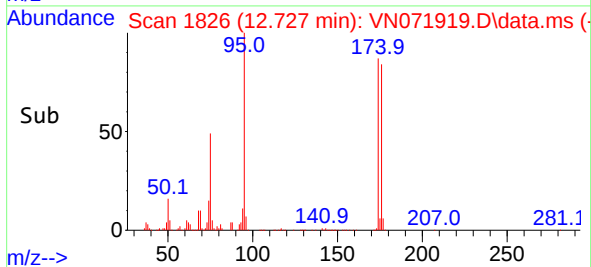
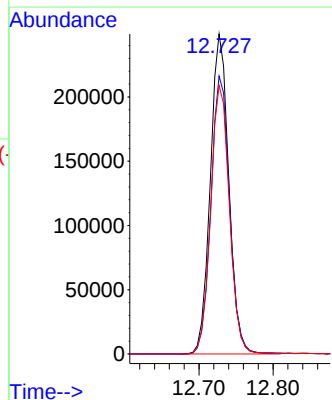
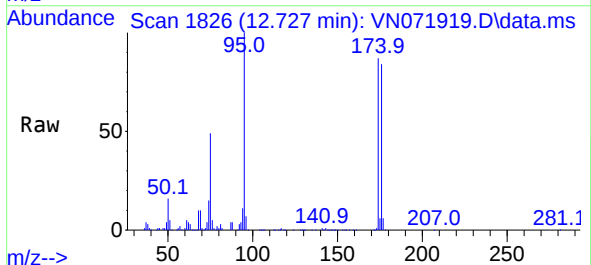
Instrument :
MSVOA_N
ClientSampleId :
MID0422

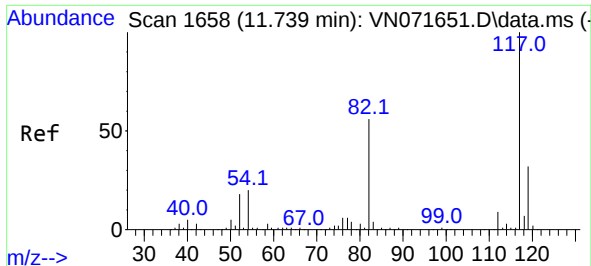
Tgt Ion: 43 Resp: 5041
Ion Ratio Lower Upper
43 100
58 60.1 29.7 89.1



#62
4-Bromofluorobenzene
Concen: 54.720 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 95 Resp: 431211
Ion Ratio Lower Upper
95 100
174 87.9 0.0 167.6
176 84.8 0.0 163.4

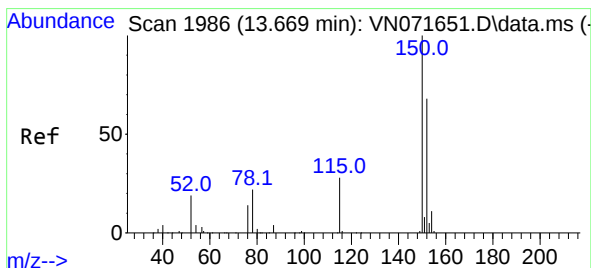
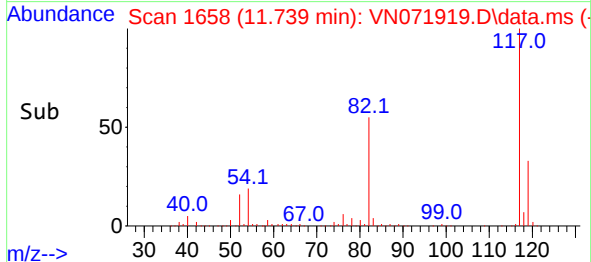
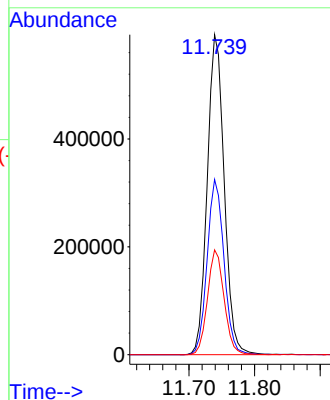
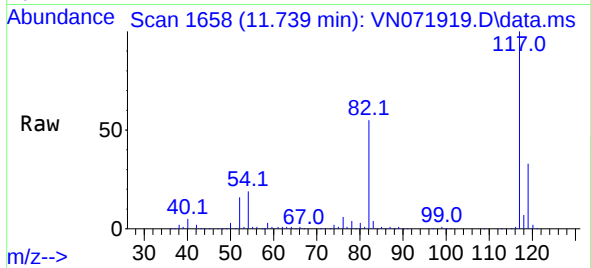




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

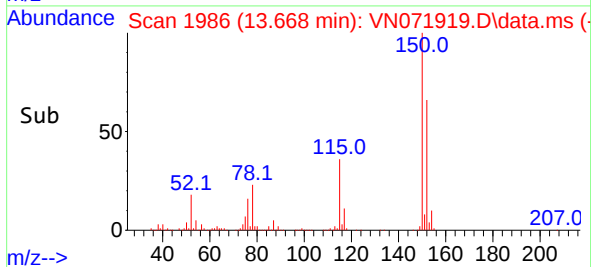
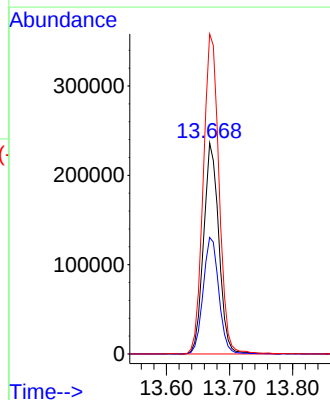
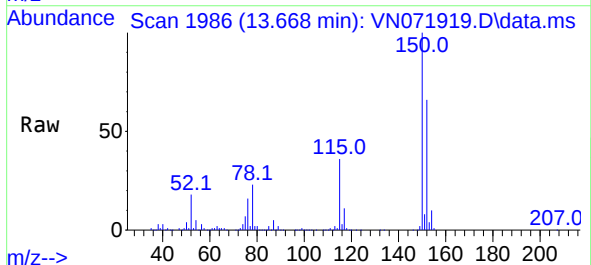
Instrument :
MSVOA_N
ClientSampleId :
MID0422

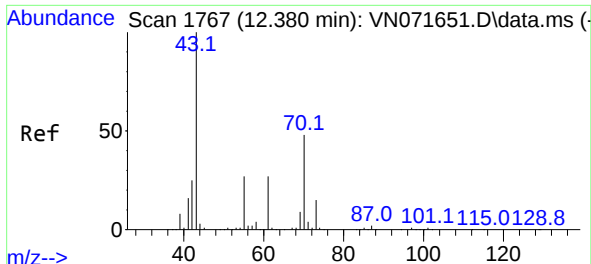
Tgt Ion:117 Resp: 1068634
Ion Ratio Lower Upper
117 100
82 54.8 44.2 66.2
119 32.7 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.668 min Scan# 1986
Delta R.T. -0.001 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion:152 Resp: 396287
Ion Ratio Lower Upper
152 100
115 56.8 28.9 86.7
150 156.9 0.0 356.2

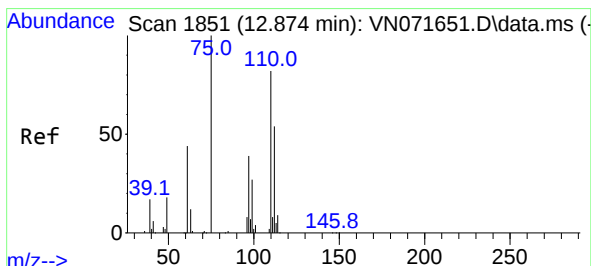
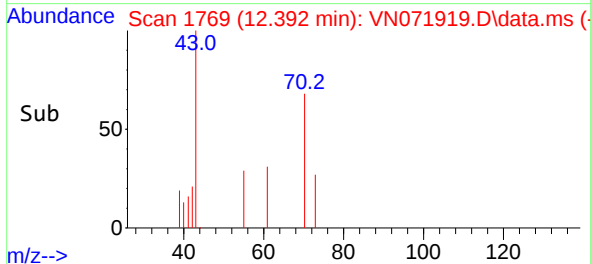
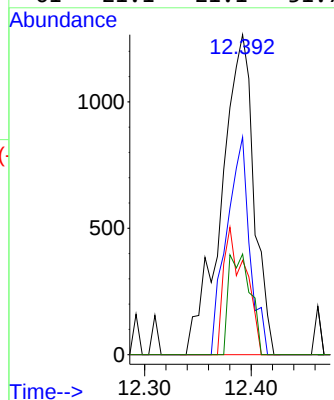
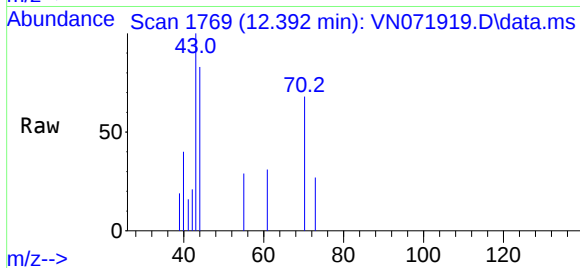




#74
N-amy1 acetate
Concen: 0.281 ug/l
RT: 12.392 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

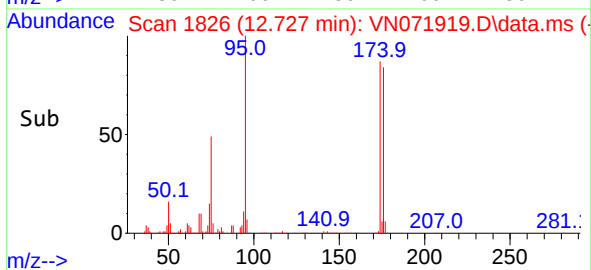
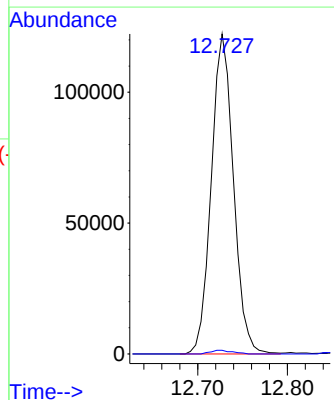
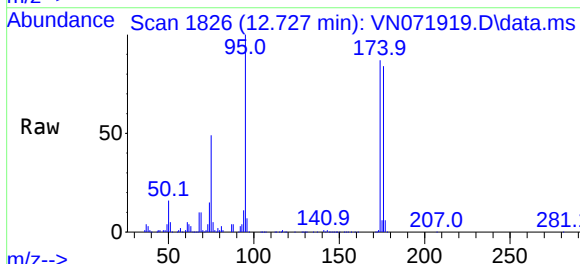
Instrument :
MSVOA_N
ClientSampleId :
MID0422

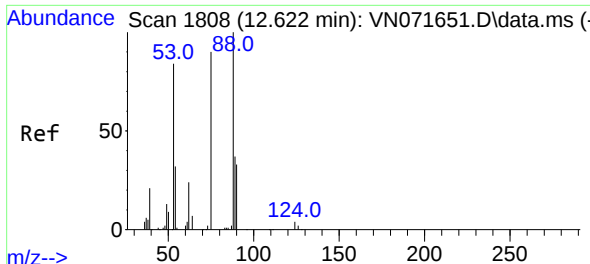
Tgt Ion:	43	Resp:	2686
Ion	Ratio	Lower	Upper
43	100		
70	48.3	39.0	58.4
55	26.5	21.1	31.7
61	21.1	21.1	31.7



#76
1,2,3-Trichloropropane
Concen: 22.833 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion:	75	Resp:	209617
Ion	Ratio	Lower	Upper
75	100		
77	1.2	98.5	295.5

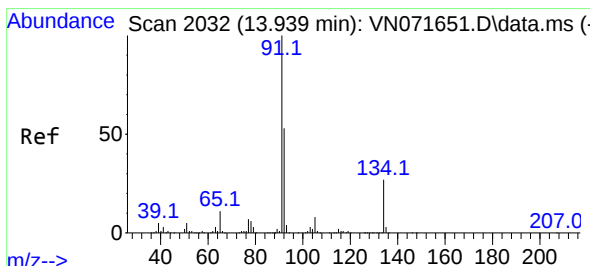
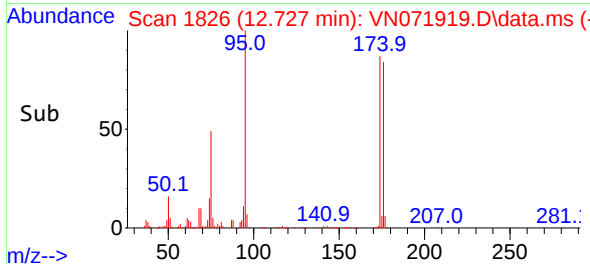
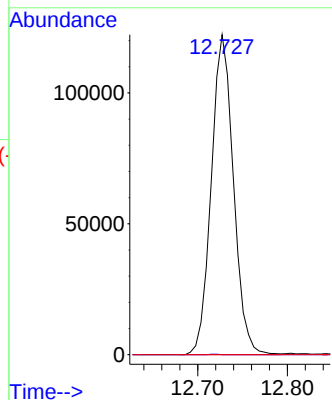
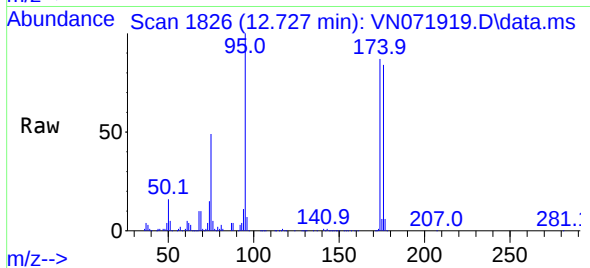




#81
trans-1,4-Dichloro-2-butene
Concen: 70.760 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.105 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

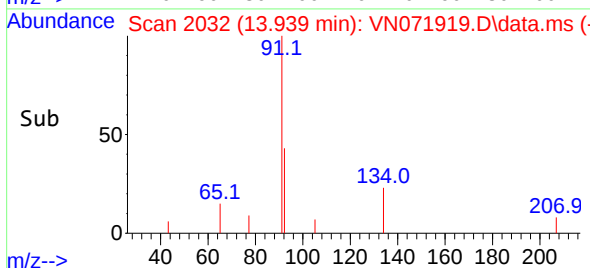
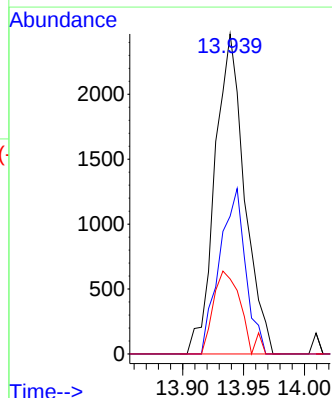
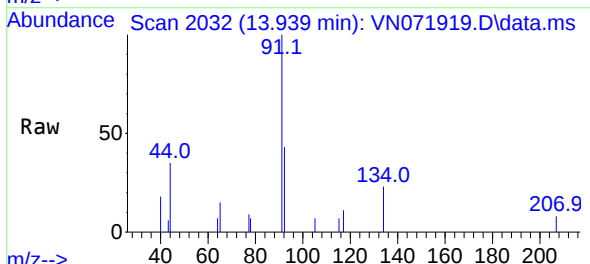
Instrument :
MSVOA_N
ClientSampleId :
MID0422

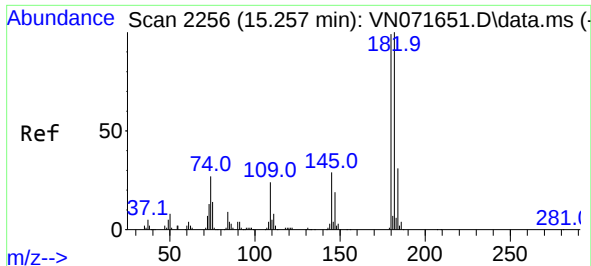
Tgt Ion: 75 Resp: 209617
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#



#89
n-Butylbenzene
Concen: 0.225 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VN071919.D
Acq: 08 Apr 2022 17:08

Tgt Ion: 91 Resp: 4172
Ion Ratio Lower Upper
91 100
92 45.5 26.9 80.7
134 24.0 13.6 40.8





#93

1,2,4-Trichlorobenzene

Concen: 2.597 ug/l

RT: 15.262 min Scan# 21

Delta R.T. 0.005 min

Lab File: VN071919.D

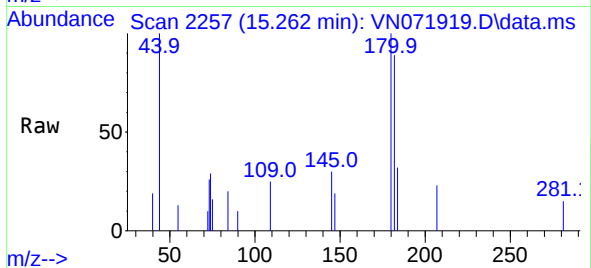
Acq: 08 Apr 2022 17:08

Instrument :

MSVOA_N

ClientSampleId :

MID0422



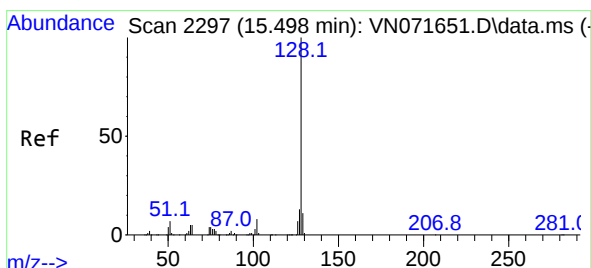
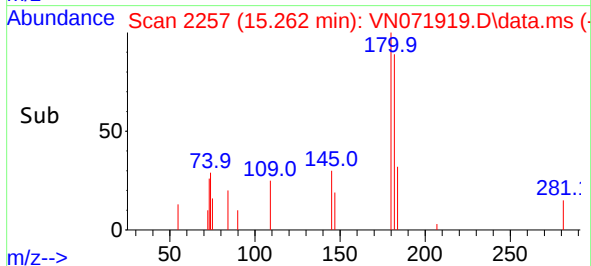
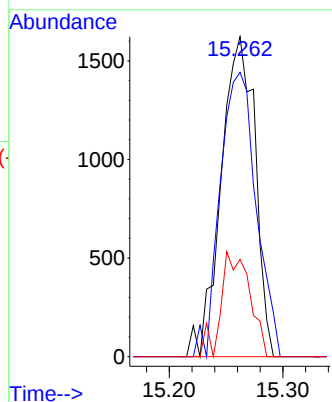
Tgt Ion:180 Resp: 3367

Ion Ratio Lower Upper

180 100

182 94.3 47.5 142.5

145 27.8 14.5 43.5



#95

Naphthalene

Concen: 4.488 ug/l

RT: 15.503 min Scan# 2298

Delta R.T. 0.005 min

Lab File: VN071919.D

Acq: 08 Apr 2022 17:08

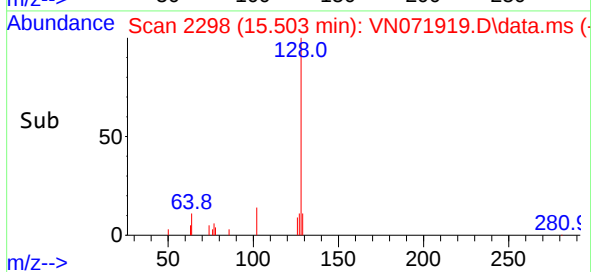
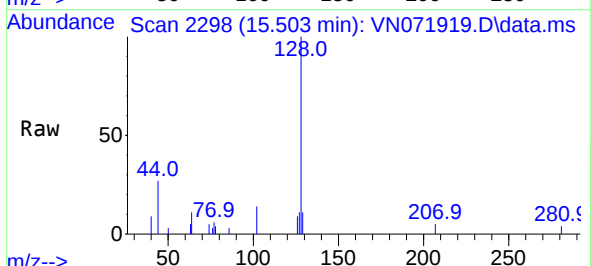
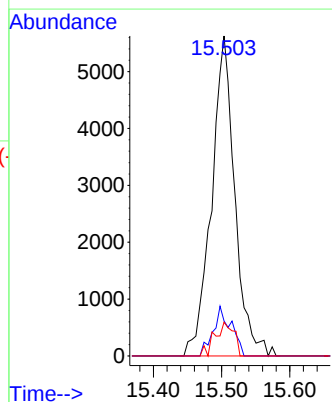
Tgt Ion:128 Resp: 13386

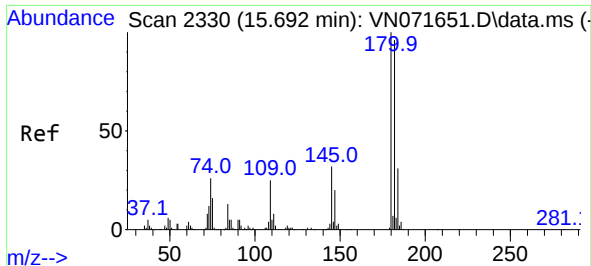
Ion Ratio Lower Upper

128 100

127 12.0 10.3 15.5

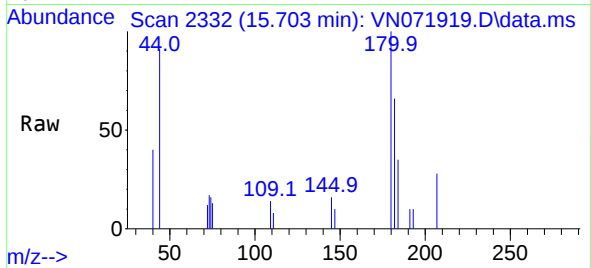
129 8.6 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.100 ug/l
 RT: 15.703 min Scan# 21
 Delta R.T. 0.011 min
 Lab File: VN071919.D
 Acq: 08 Apr 2022 17:08

Instrument :
 MSVOA_N
 ClientSampleId :
 MID0422



Tgt Ion:	180	Resp:	4400
Ion	Ratio	Lower	Upper
180	100		
182	93.5	47.8	143.3
145	26.5	15.5	46.5

