

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062822\
 Data File : VN073210.D
 Acq On : 28 Jun 2022 20:38
 Operator : JC\MD
 Sample : N3494-22DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-EXC-1-3DL

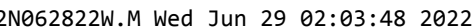
Quant Time: Jun 29 02:03:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 01:54:03 2022
 Response via : Initial Calibration

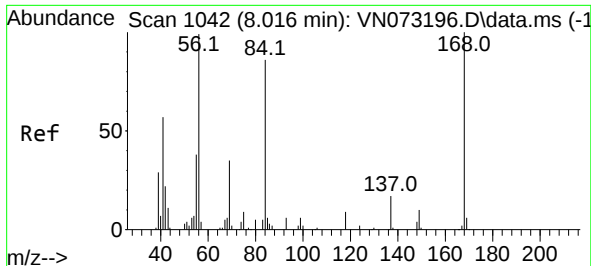
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.016	168	326586	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.898	114	529069	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	520670	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	268946	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	198439	42.090	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	84.180%		
35) Dibromofluoromethane	7.951	113	165304	46.962	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.920%		
50) Toluene-d8	10.374	98	568939	45.509	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.020%		
62) 4-Bromofluorobenzene	12.668	95	273065	56.837	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	113.680%		
Target Compounds					Qvalue	
3) Chloromethane	2.269	50	1014	0.219	ug/l #	43
10) Methyl Iodide	4.357	142	184	3.767	ug/l #	44
11) Tert butyl alcohol	5.228	59	8759	7.669	ug/l #	72
16) Acetone	4.234	43	29259	11.056	ug/l	98
18) Methyl Acetate	4.787	43	10381	1.400	ug/l #	89
20) Methylene Chloride	5.010	84	62764	13.495	ug/l	91
25) 2-Butanone	7.275	43	7857	1.865	ug/l #	79
26) 2,2-Dichloropropane	7.228	77	2037	0.282	ug/l #	53
29) Tetrahydrofuran	7.633	42	1534	0.532	ug/l #	37
31) Cyclohexane	8.016	56	6958	0.901	ug/l #	19
36) 1,1-Dichloropropene	8.016	75	26644	4.919	ug/l #	49
37) Ethyl Acetate	7.345	43	6346	0.775	ug/l #	80
38) Carbon Tetrachloride	8.010	117	33458	5.974	ug/l #	15
40) Benzene	8.386	78	51147	3.060	ug/l	97
41) Methacrylonitrile	7.622	41	874	0.220	ug/l #	19
43) Isopropyl Acetate	8.498	43	23014	1.957	ug/l #	86
48) Methyl methacrylate	9.480	41	2075	0.381	ug/l #	34
51) 4-Methyl-2-Pentanone	10.269	43	4926	0.660	ug/l #	72
54) cis-1,3-Dichloropropene	10.186	75	8901	1.337	ug/l #	60
57) 1,3-Dichloropropane	11.027	76	1831	0.251	ug/l #	42
59) 2-Hexanone	11.033	43	28515	5.015	ug/l #	47
65) Chlorobenzene	11.710	112	221922	18.846	ug/l	100
71) Bromoform	12.657	173	828	0.261	ug/l #	1
76) 1,2,3-Trichloropropane	12.668	75	139877	19.890	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.668	75	139877	54.549	ug/l #	10
91) 1,2-Dichlorobenzene	13.921	146	4480	0.454	ug/l	97
93) 1,2,4-Trichlorobenzene	15.198	180	1046	0.204	ug/l #	91
95) Naphthalene	15.433	128	1130190	54.525	ug/l	100

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

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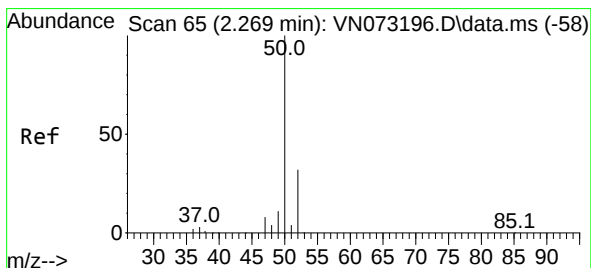
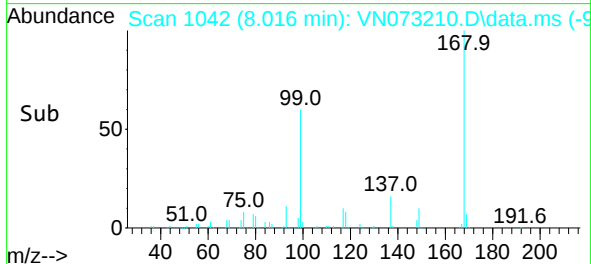
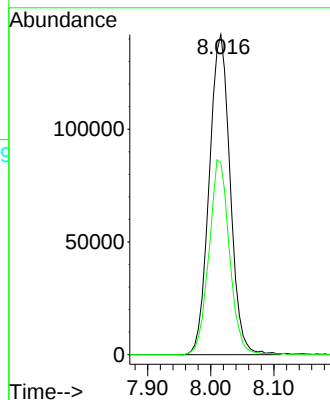
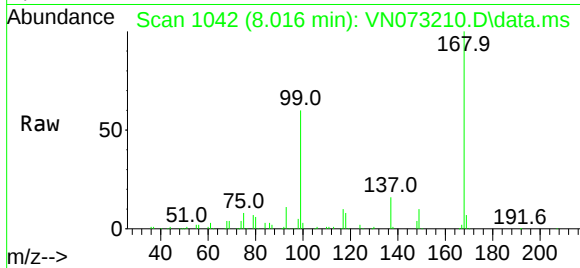




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

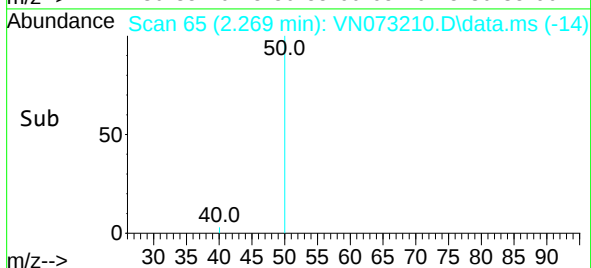
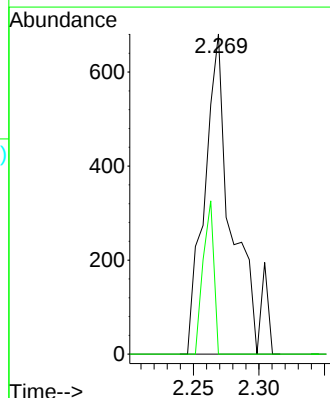
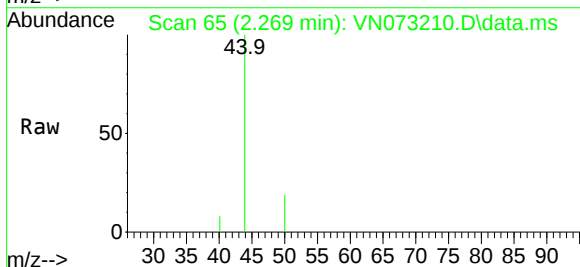
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

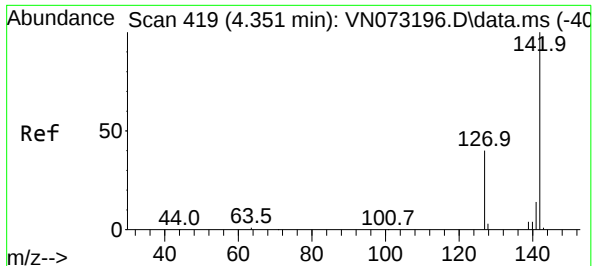
Tgt Ion:168 Resp: 326586
Ion Ratio Lower Upper
168 100
99 59.9 42.3 63.5



#3
Chloromethane
Concen: 0.219 ug/l
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

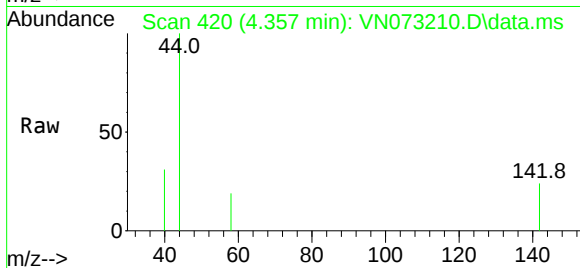
Tgt Ion: 50 Resp: 1014
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#



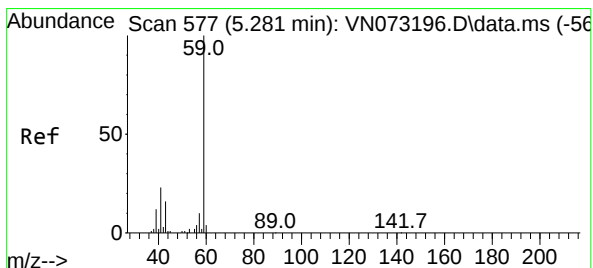
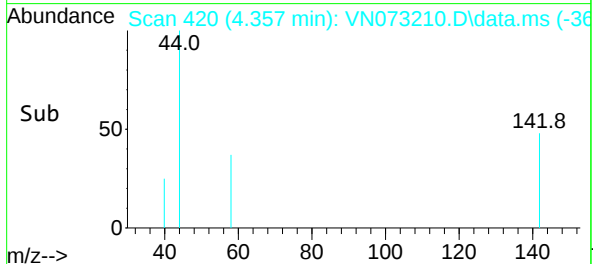
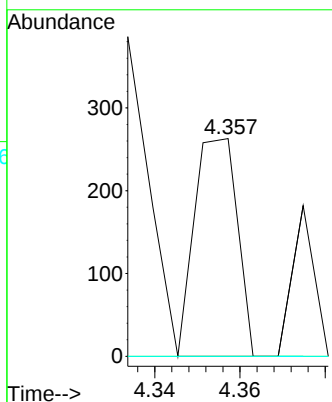


#10
Methyl Iodide
Concen: 3.767 ug/l
RT: 4.357 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

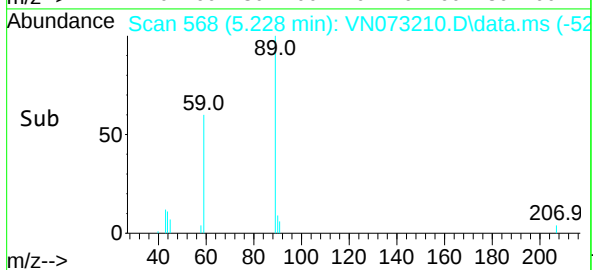
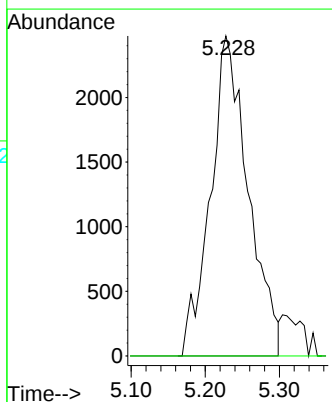
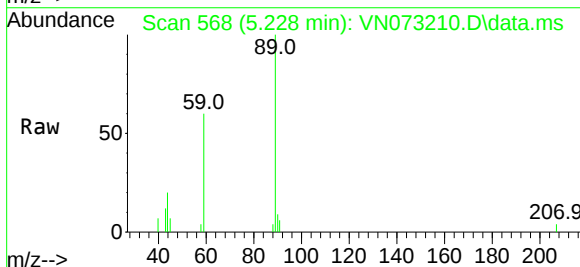


Tgt Ion:142 Resp: 184
Ion Ratio Lower Upper
142 100
127 0.0 31.3 46.9#
141 0.0 11.2 16.8#



#11
Tert butyl alcohol
Concen: 7.669 ug/l
RT: 5.228 min Scan# 568
Delta R.T. -0.053 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion: 59 Resp: 8759
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

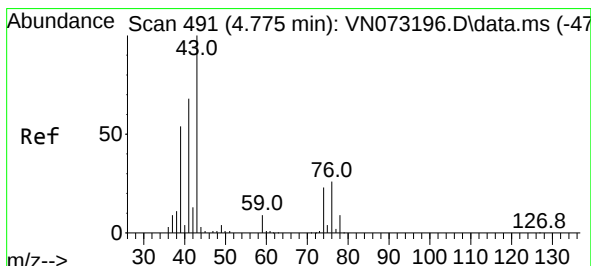
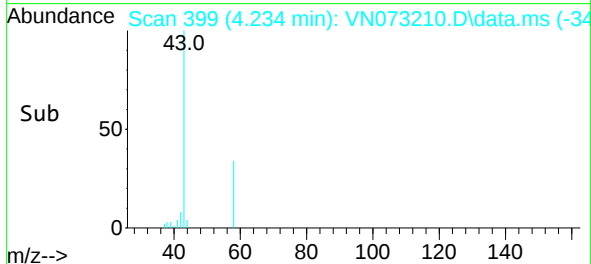
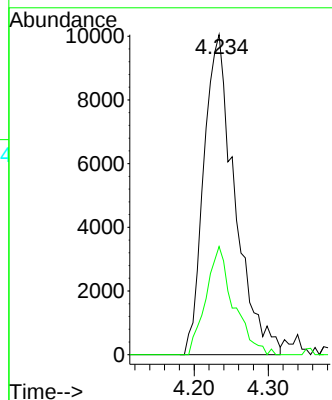
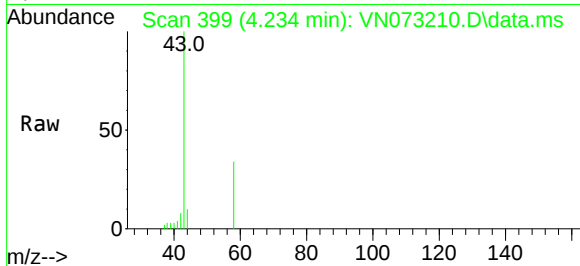




#16
Acetone
Concen: 11.056 ug/l
RT: 4.234 min Scan# 397
Delta R.T. 0.012 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

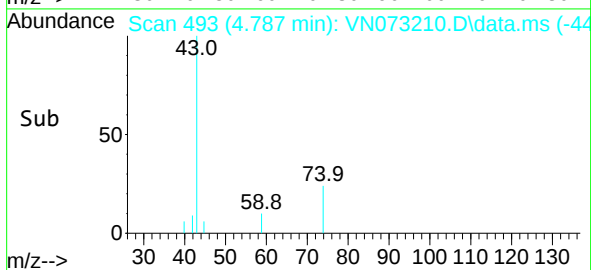
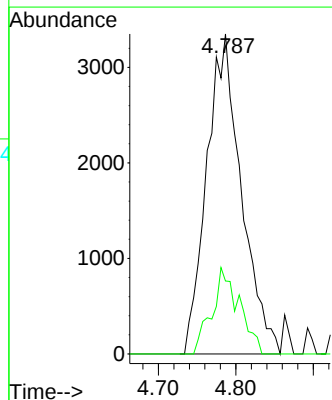
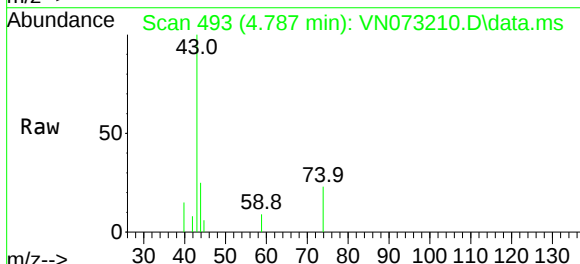
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

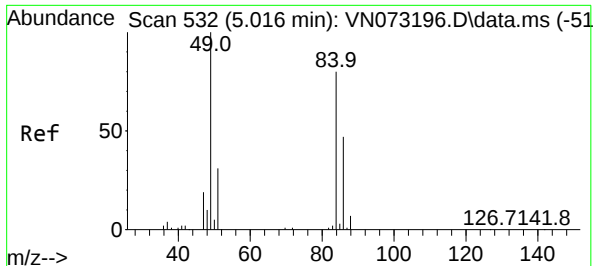
Tgt Ion: 43 Resp: 29259
Ion Ratio Lower Upper
43 100
58 33.8 26.0 39.0



#18
Methyl Acetate
Concen: 1.400 ug/l
RT: 4.787 min Scan# 493
Delta R.T. 0.012 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion: 43 Resp: 10381
Ion Ratio Lower Upper
43 100
74 21.4 21.6 32.4#



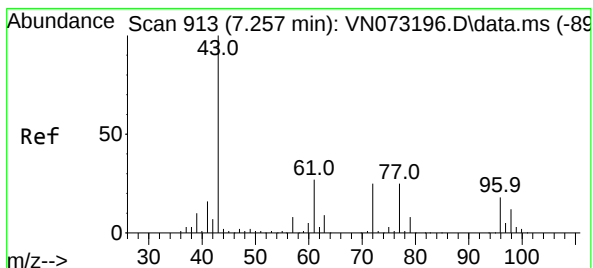
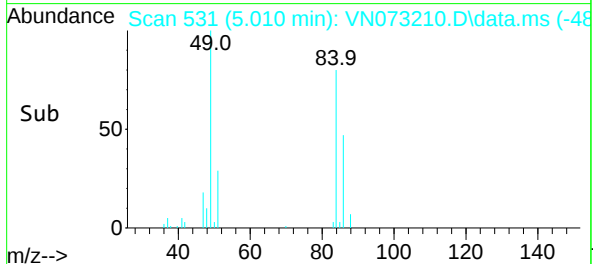
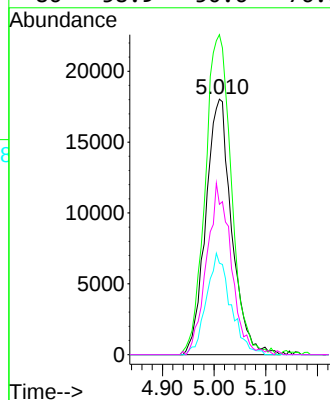
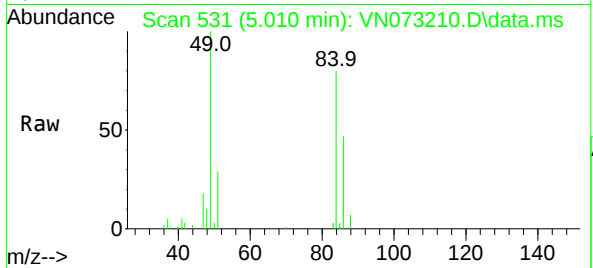


#20
Methylene Chloride
Concen: 13.495 ug/l
RT: 5.010 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

Tgt Ion: 84 Resp: 62764

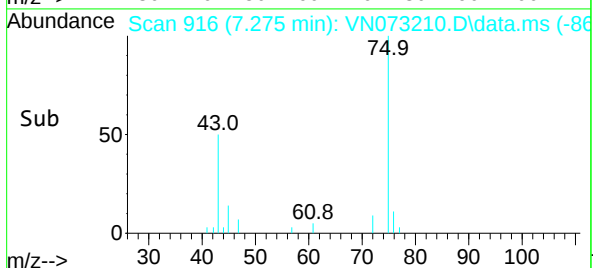
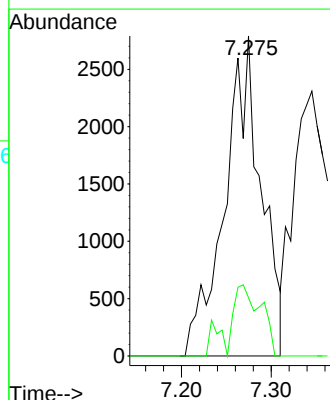
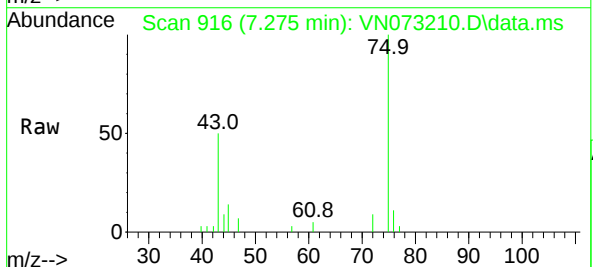
Ion	Ratio	Lower	Upper
84	100		
49	125.2	88.3	132.5
51	35.8	28.2	42.2
86	58.9	50.6	76.0

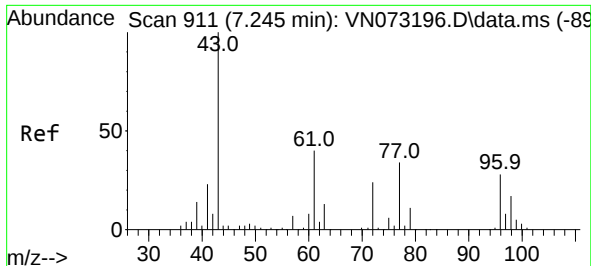


#25
2-Butanone
Concen: 1.865 ug/l
RT: 7.275 min Scan# 916
Delta R.T. 0.018 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion: 43 Resp: 7857

Ion	Ratio	Lower	Upper
43	100		
72	18.2	23.7	35.5#

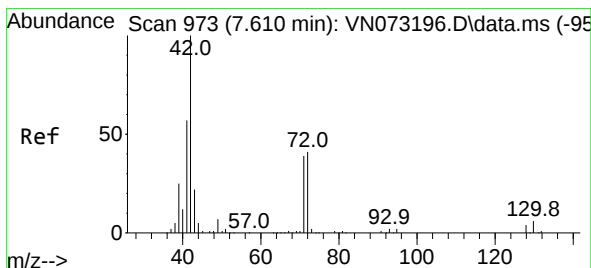
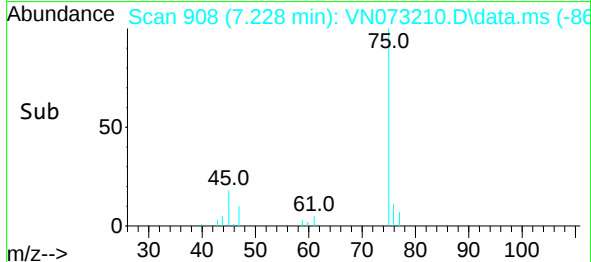
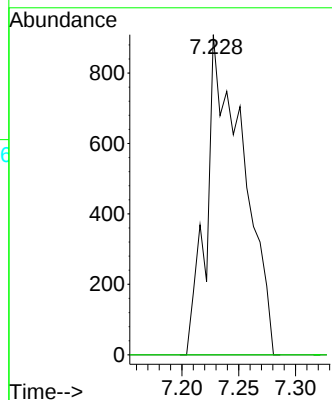
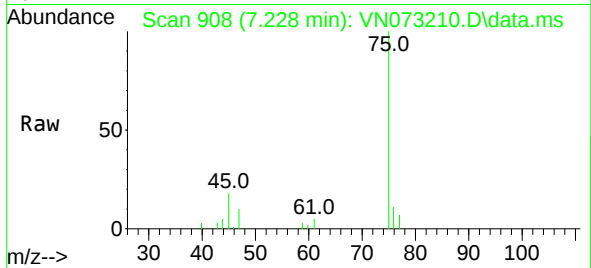




#26
2,2-Dichloropropane
Concen: 0.282 ug/l
RT: 7.228 min Scan# 908
Delta R.T. -0.017 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

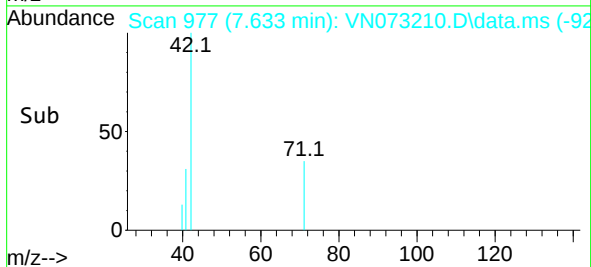
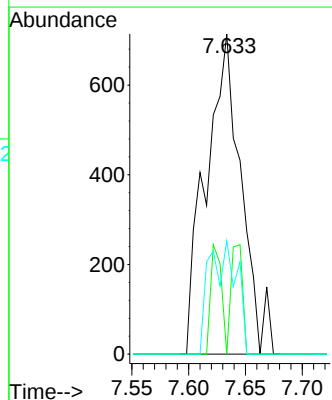
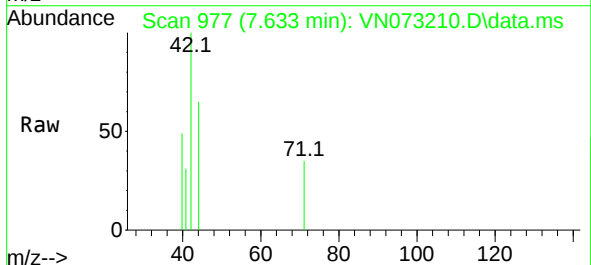
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

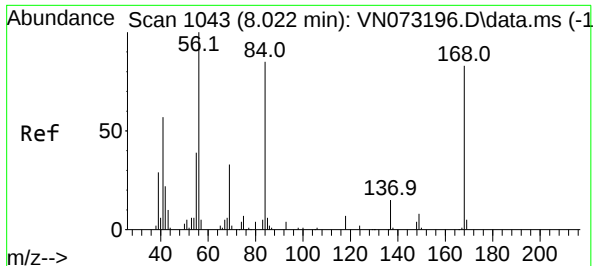
Tgt Ion: 77 Resp: 2037
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#29
Tetrahydrofuran
Concen: 0.532 ug/l
RT: 7.633 min Scan# 977
Delta R.T. 0.023 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

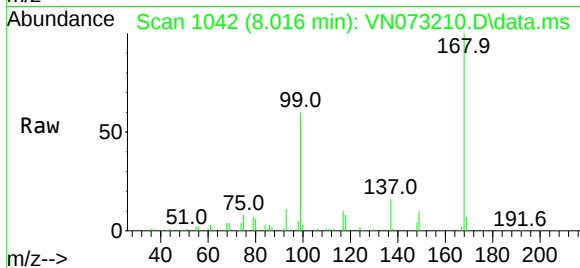
Tgt Ion: 42 Resp: 1534
Ion Ratio Lower Upper
42 100
72 11.1 39.7 59.5#
71 0.0 36.6 55.0#



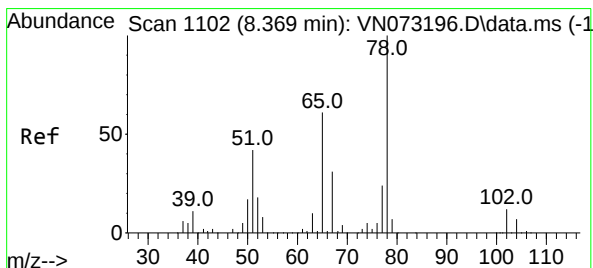
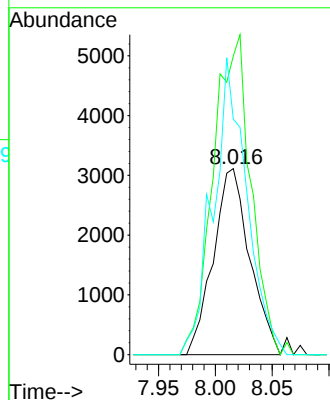
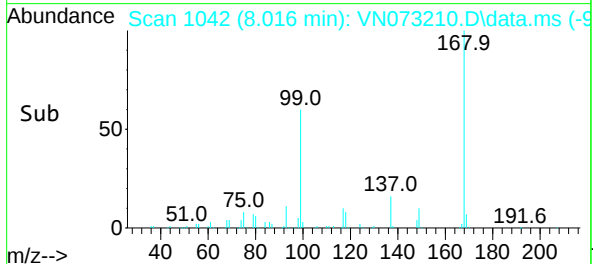


#31
Cyclohexane
Concen: 0.901 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Instrument :
MSVOA_N
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SP-EXC-1-3DL

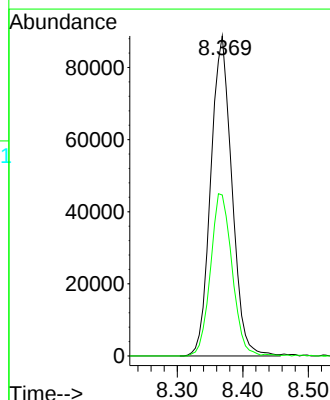
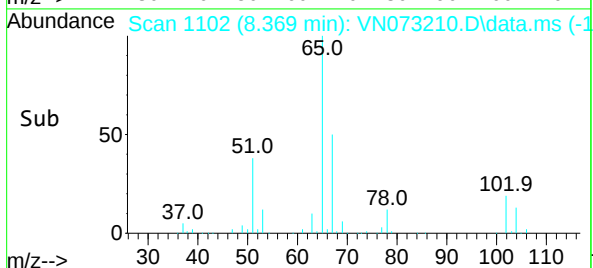
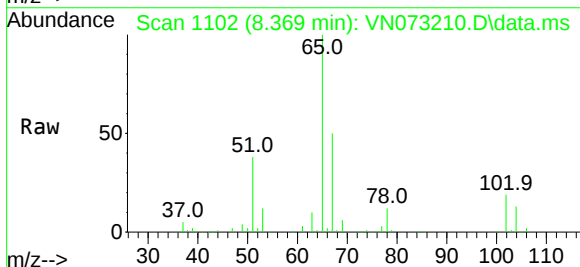


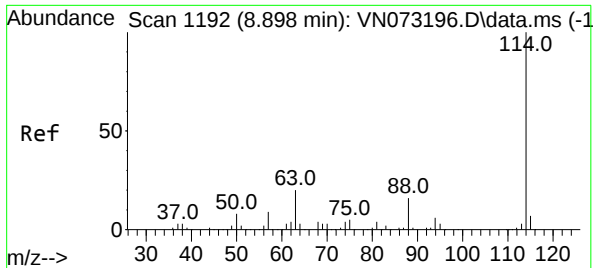
Tgt Ion: 56 Resp: 6958
Ion Ratio Lower Upper
56 100
69 160.5 27.8 41.8#
84 126.5 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 42.090 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion: 65 Resp: 198439
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.898 min Scan# 1192

Delta R.T. 0.000 min

Lab File: VN073210.D

Acq: 28 Jun 2022 20:38

Instrument :

MSVOA_N

ClientSampleId :

SP-EXC-1-3DL

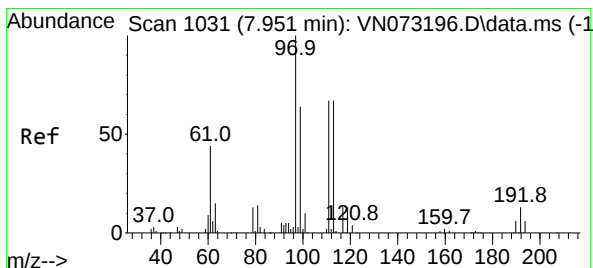
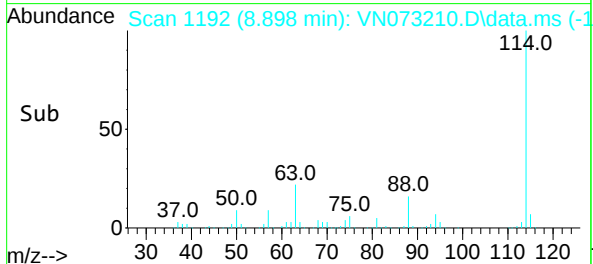
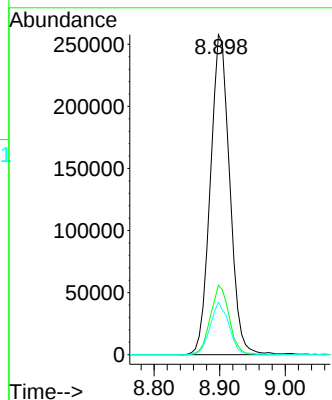
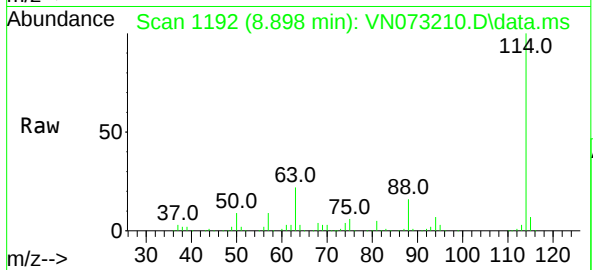
Tgt Ion:114 Resp: 529069

Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.0

88 16.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 46.962 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073210.D

Acq: 28 Jun 2022 20:38

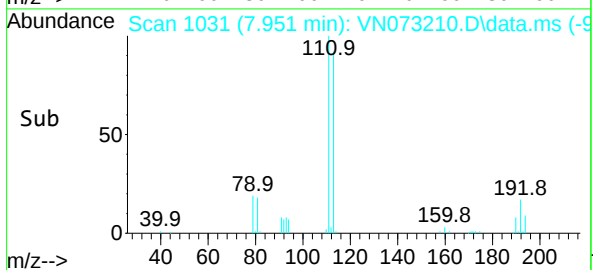
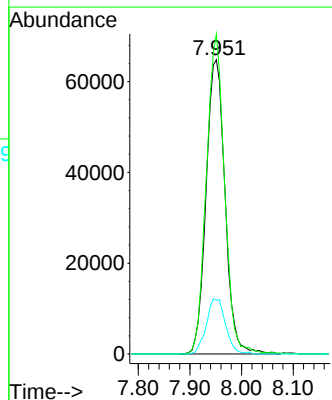
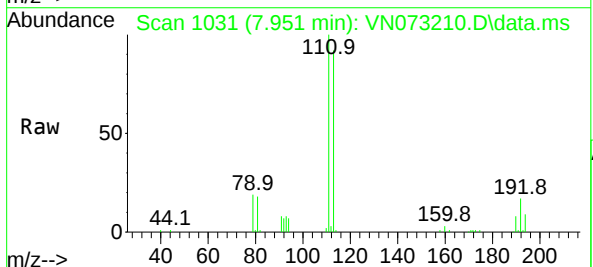
Tgt Ion:113 Resp: 165304

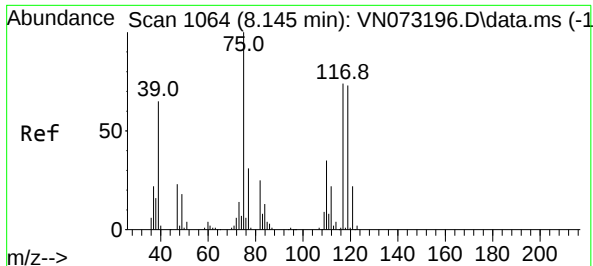
Ion Ratio Lower Upper

113 100

111 104.3 81.4 122.0

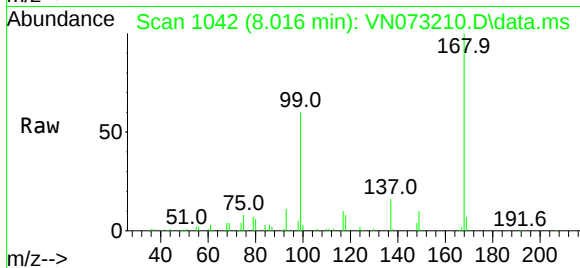
192 19.0 17.0 25.6



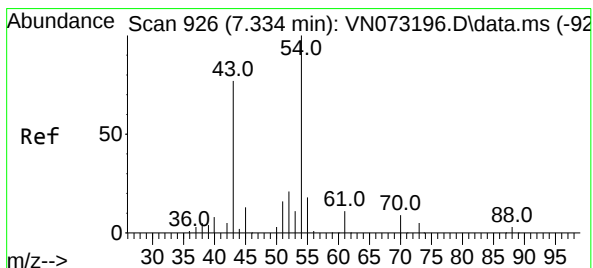
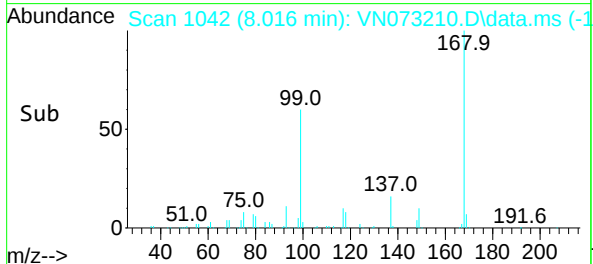
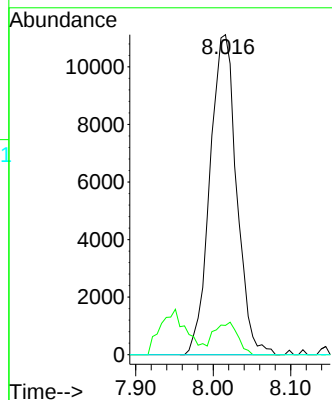


#36
1,1-Dichloropropene
Concen: 4.919 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.129 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

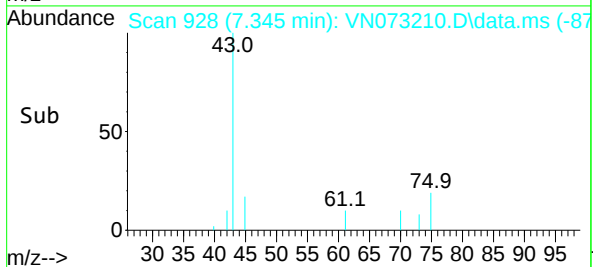
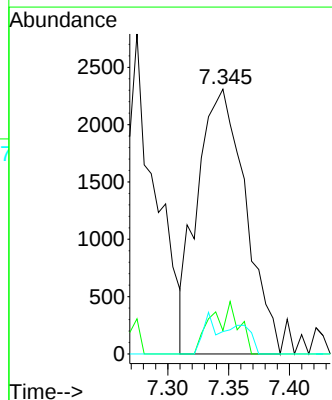
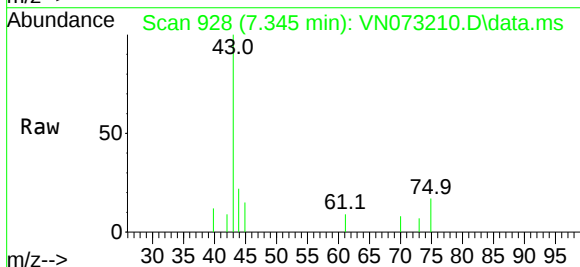


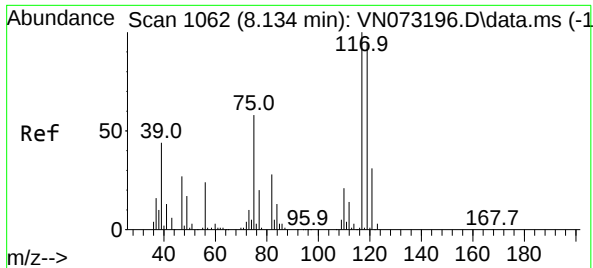
Tgt Ion: 75 Resp: 26644
Ion Ratio Lower Upper
75 100
110 8.8 18.3 54.8#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 0.775 ug/l
RT: 7.345 min Scan# 928
Delta R.T. 0.011 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion: 43 Resp: 6346
Ion Ratio Lower Upper
43 100
61 5.9 11.8 17.6#
70 4.9 9.3 13.9#

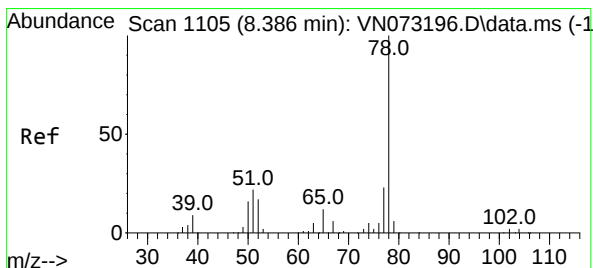
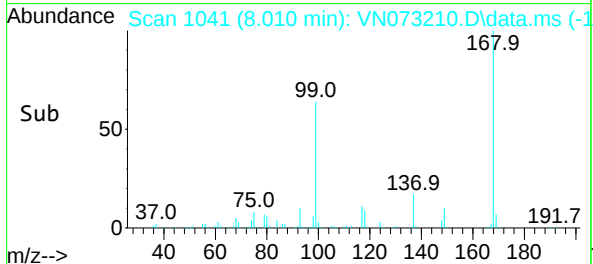
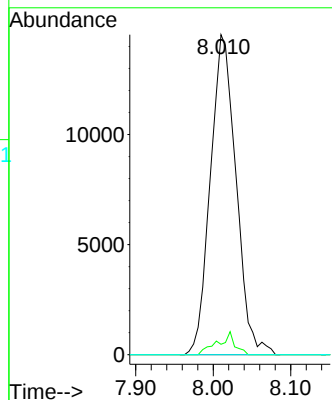
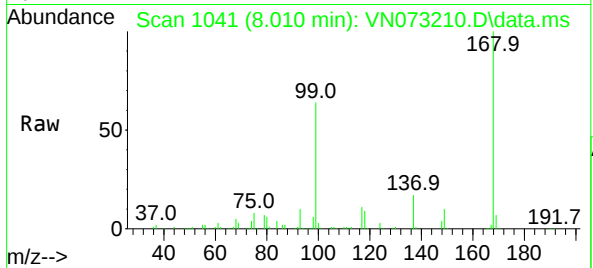




#38
Carbon Tetrachloride
Concen: 5.974 ug/l
RT: 8.010 min Scan# 1041
Delta R.T. -0.124 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

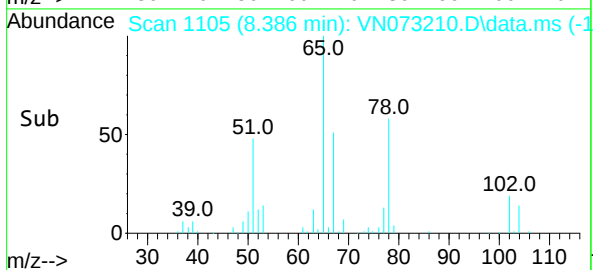
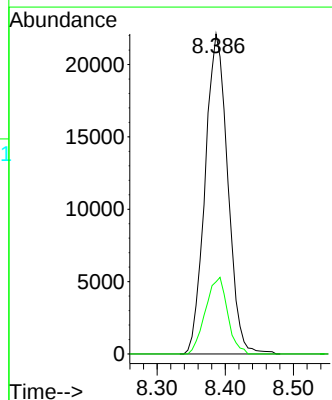
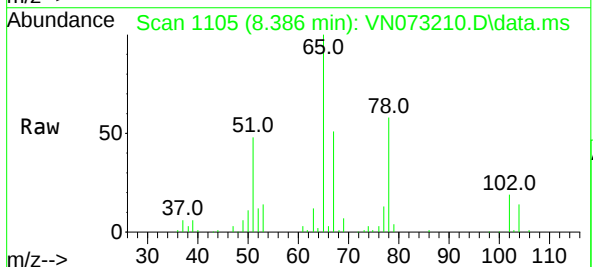
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

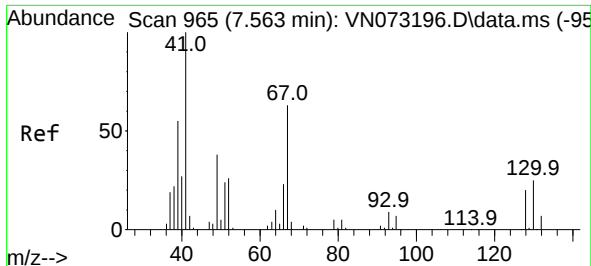
Tgt Ion:117 Resp: 33458
Ion Ratio Lower Upper
117 100
119 3.2 75.8 113.8#
121 0.0 24.6 37.0#



#40
Benzene
Concen: 3.060 ug/l
RT: 8.386 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion: 78 Resp: 51147
Ion Ratio Lower Upper
78 100
77 22.6 19.4 29.0

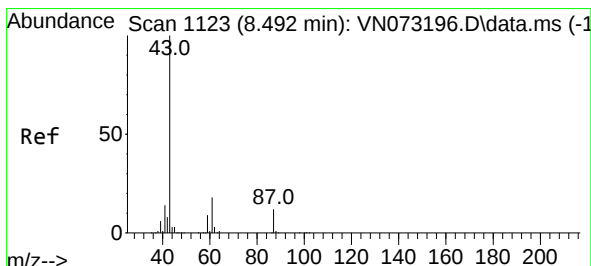
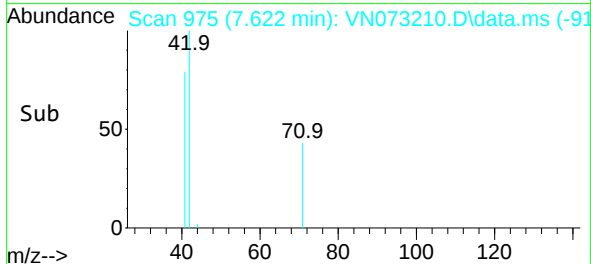
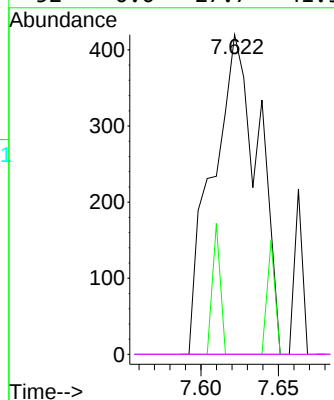
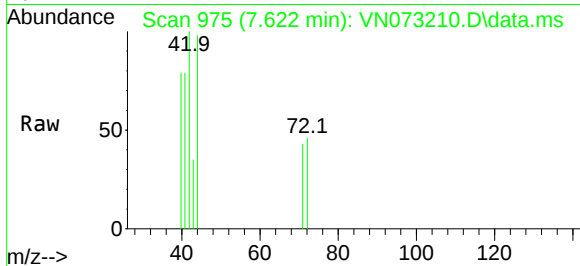




#41
Methacrylonitrile
Concen: 0.220 ug/l
RT: 7.622 min Scan# 91
Delta R.T. 0.059 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

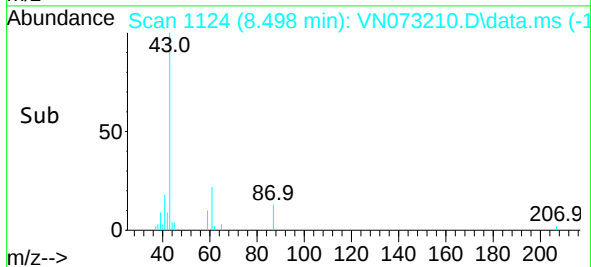
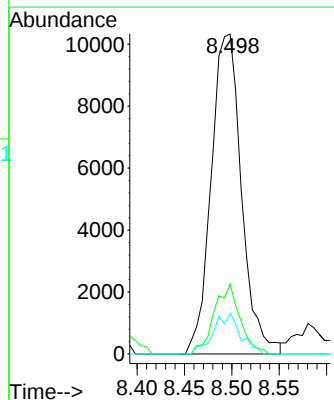
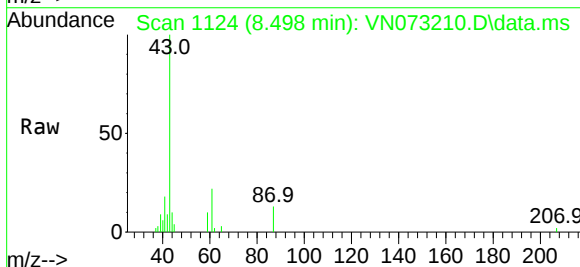
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

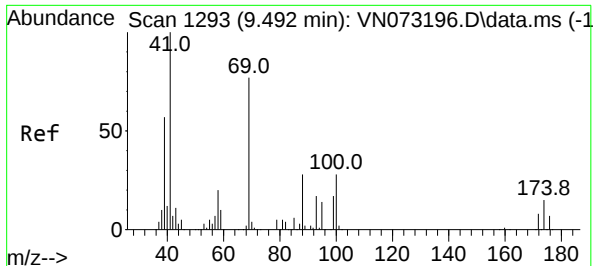
Tgt Ion:	41	Resp:	874
Ion	Ratio	Lower	Upper
41	100		
39	7.0	48.6	73.0#
67	0.0	73.4	110.2#
52	0.0	27.7	41.5#



#43
Isopropyl Acetate
Concen: 1.957 ug/l
RT: 8.498 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion:	43	Resp:	23014
Ion	Ratio	Lower	Upper
43	100		
61	18.7	21.9	32.9#
87	11.2	12.0	18.0#

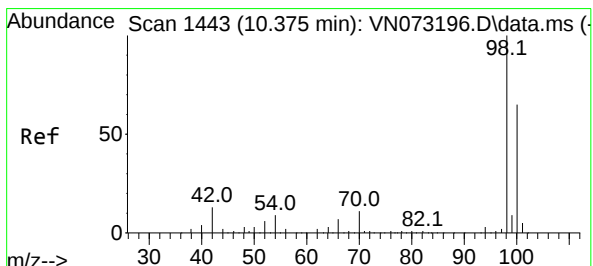
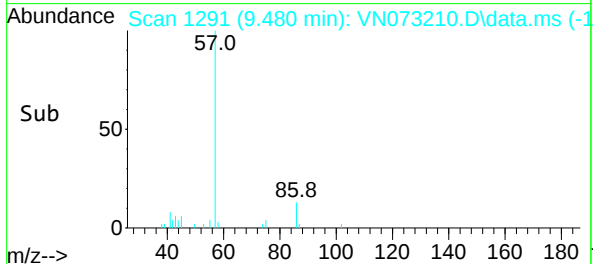
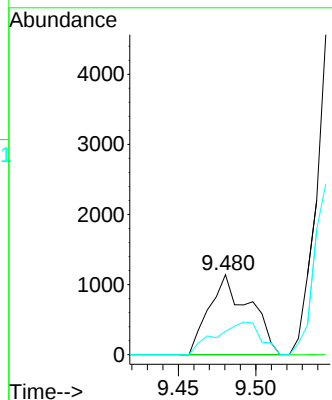
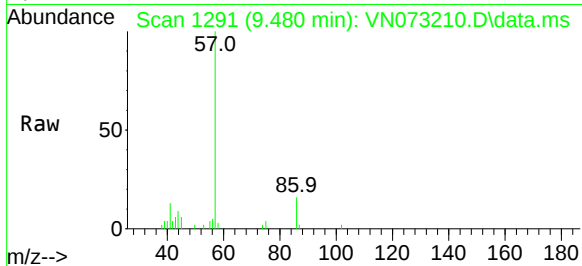




#48
Methyl methacrylate
Concen: 0.381 ug/l
RT: 9.480 min Scan# 1291
Delta R.T. -0.012 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

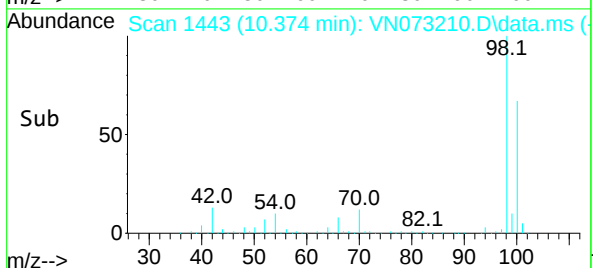
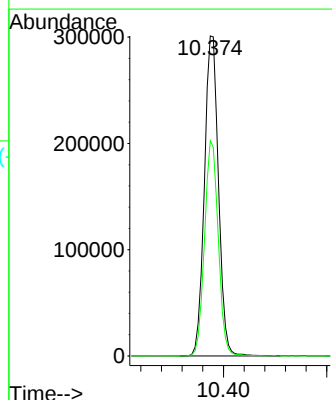
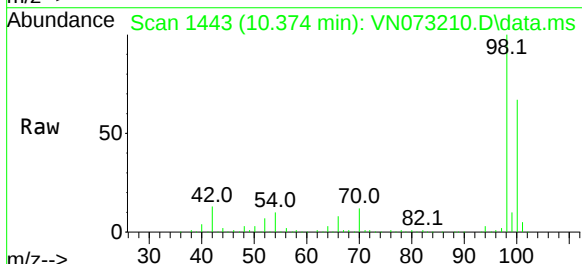
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

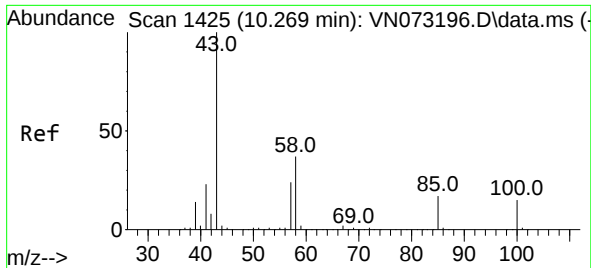
Tgt Ion: 41 Resp: 2075
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 45.5 45.6 68.4#



#50
Toluene-d8
Concen: 45.509 ug/l
RT: 10.374 min Scan# 1443
Delta R.T. -0.001 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion: 98 Resp: 568939
Ion Ratio Lower Upper
98 100
100 65.7 52.6 78.8

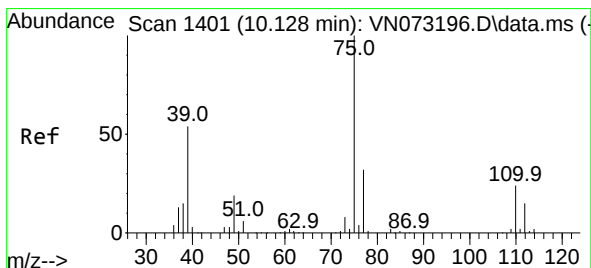
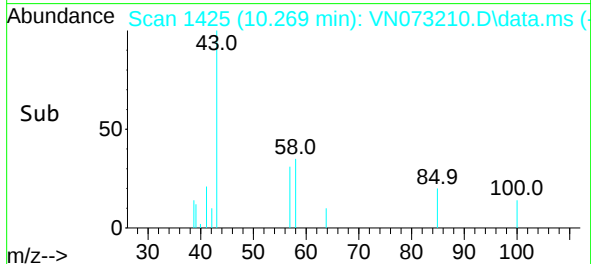
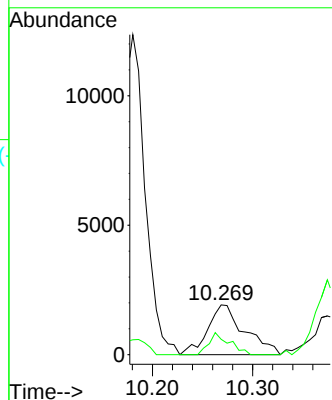
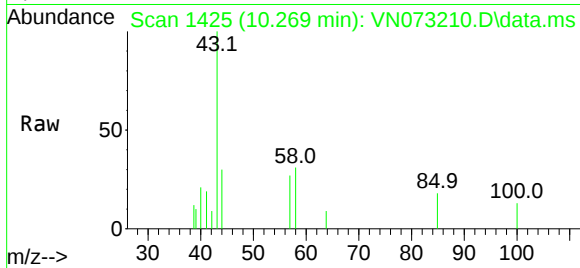




#51
4-Methyl-2-Pentanone
Concen: 0.660 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

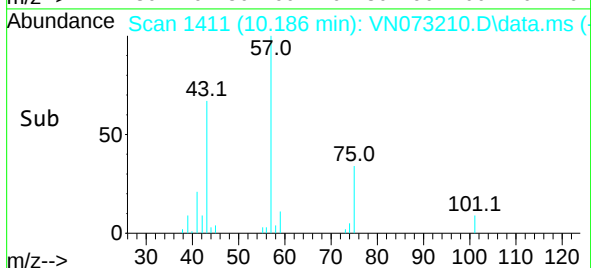
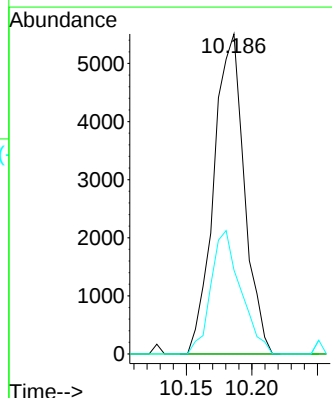
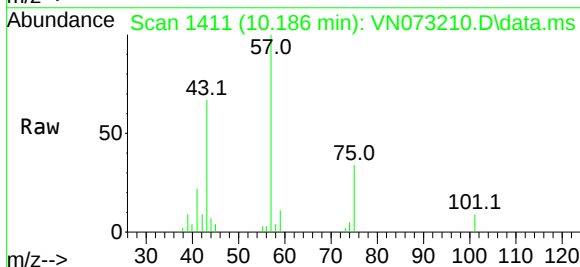
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

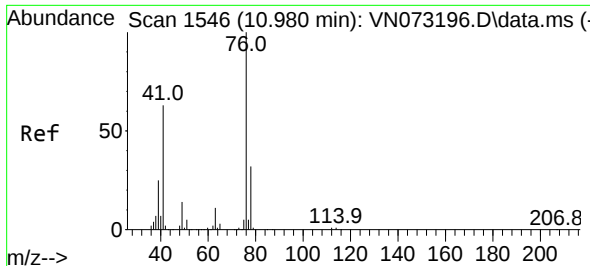
Tgt Ion: 43 Resp: 4926
Ion Ratio Lower Upper
43 100
58 24.6 34.1 51.1#



#54
cis-1,3-Dichloropropene
Concen: 1.337 ug/l
RT: 10.186 min Scan# 1411
Delta R.T. 0.058 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion: 75 Resp: 8901
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 26.2 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 0.251 ug/l

RT: 11.027 min Scan# 1155

Delta R.T. 0.047 min

Lab File: VN073210.D

Acq: 28 Jun 2022 20:38

Instrument :

MSVOA_N

ClientSampleId :

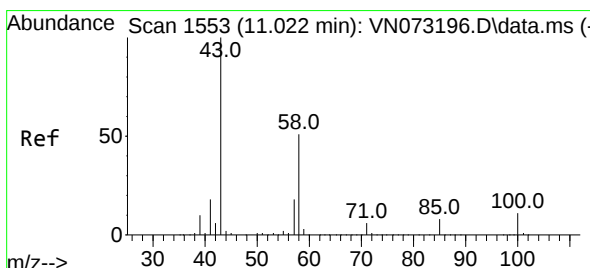
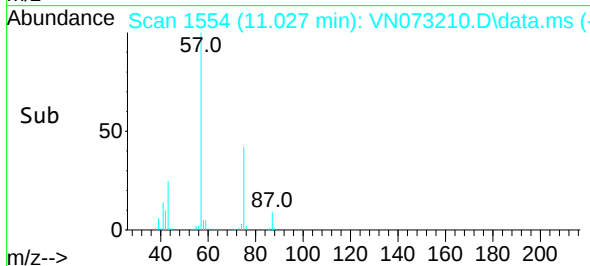
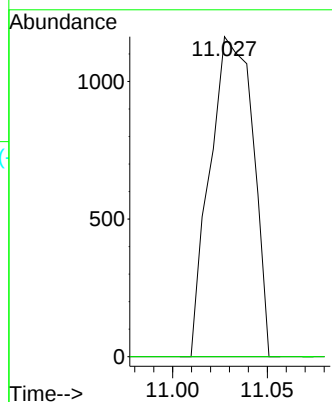
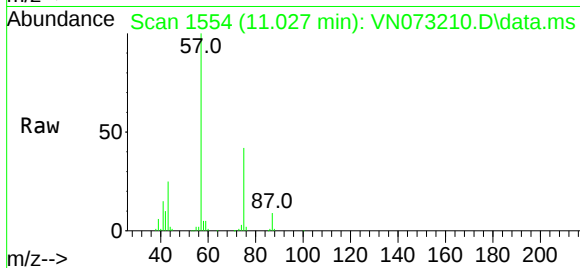
SP-EXC-1-3DL

Tgt Ion: 76 Resp: 1831

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 5.015 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.011 min

Lab File: VN073210.D

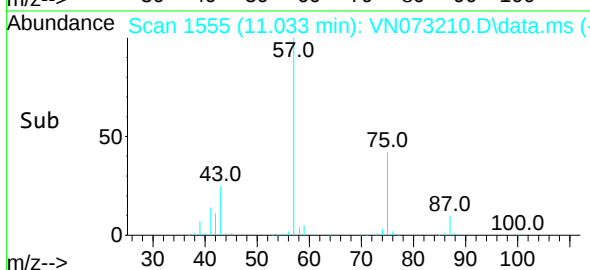
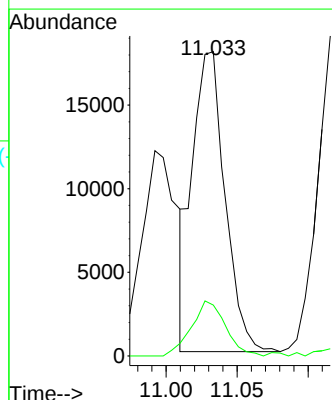
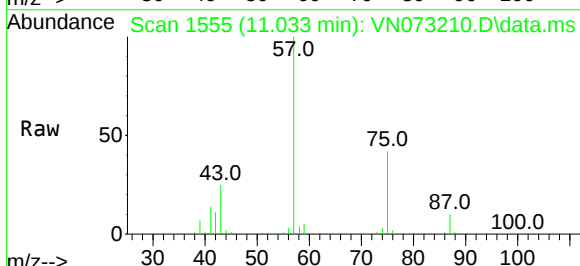
Acq: 28 Jun 2022 20:38

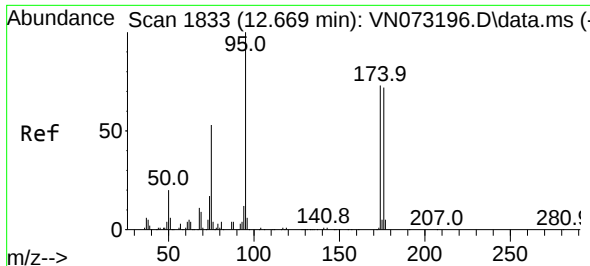
Tgt Ion: 43 Resp: 28515

Ion Ratio Lower Upper

43 100

58 19.2 29.7 89.1#

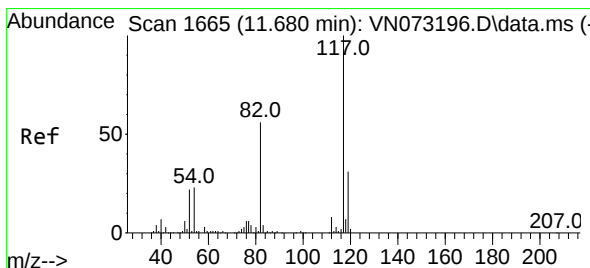
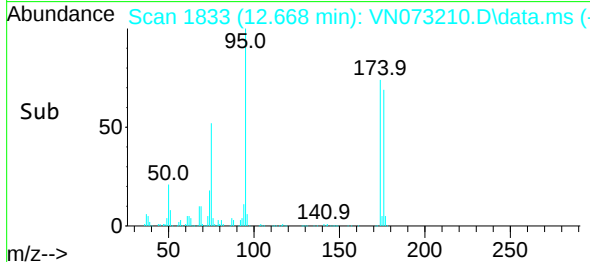
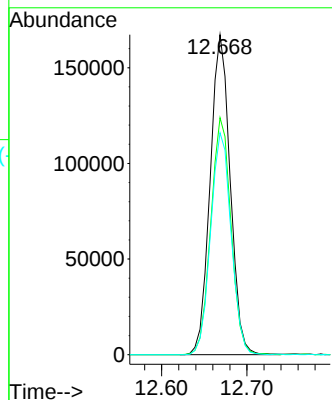
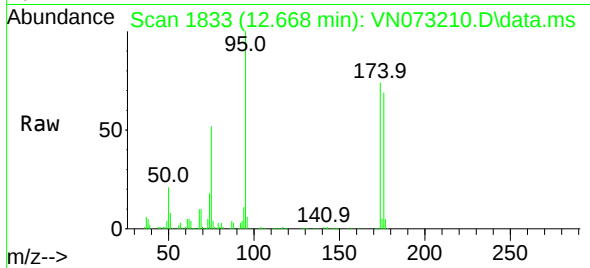




#62
4-Bromofluorobenzene
Concen: 56.837 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.001 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

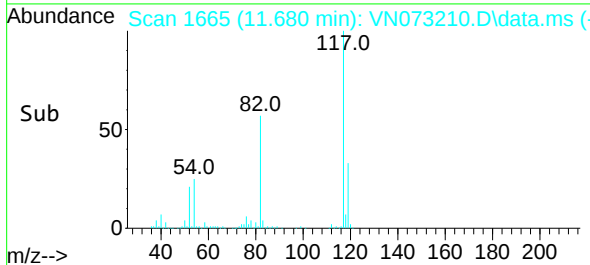
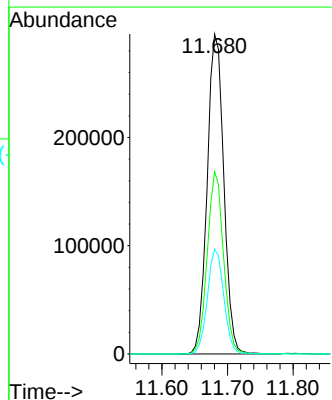
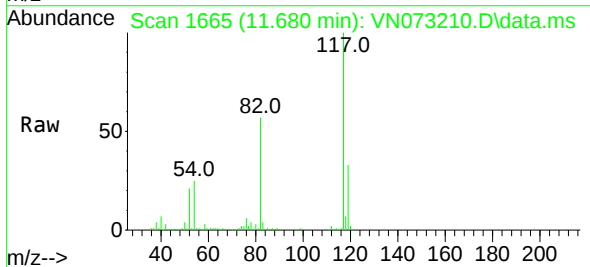
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

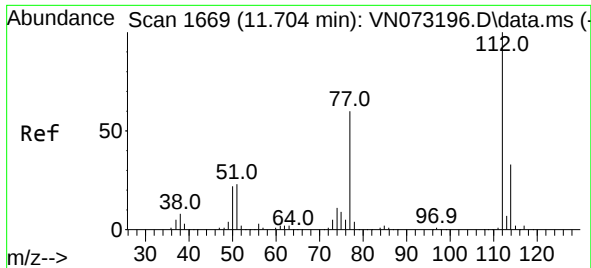
Tgt Ion: 95 Resp: 273065
Ion Ratio Lower Upper
95 100
174 74.8 0.0 167.6
176 70.7 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion: 117 Resp: 520670
Ion Ratio Lower Upper
117 100
82 56.9 44.2 66.2
119 32.7 25.4 38.0

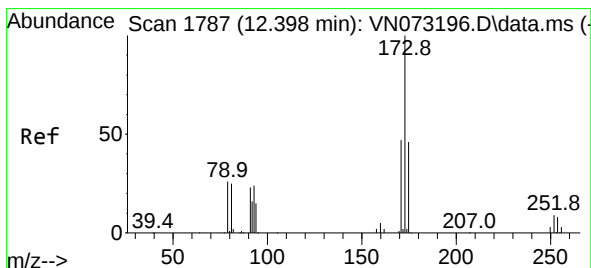
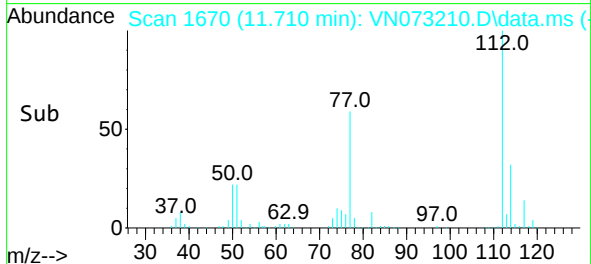
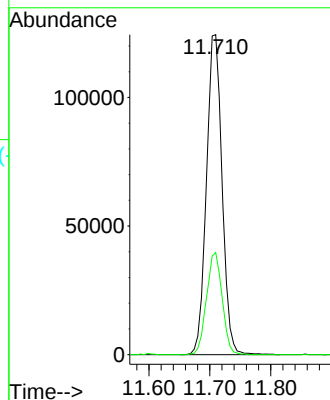
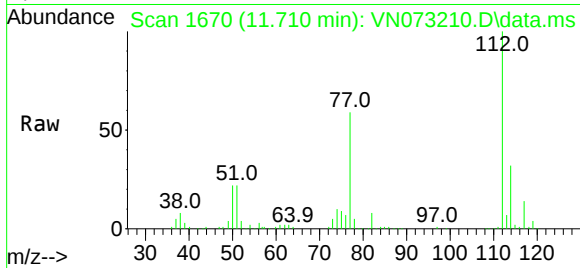




#65
Chlorobenzene
Concen: 18.846 ug/l
RT: 11.710 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

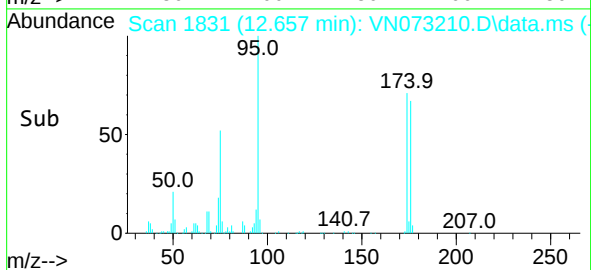
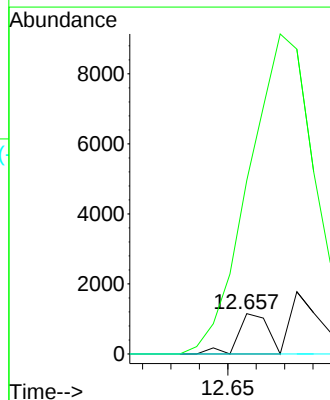
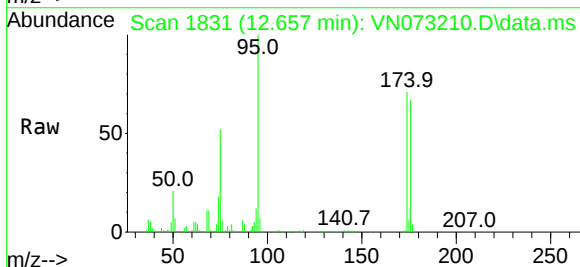
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

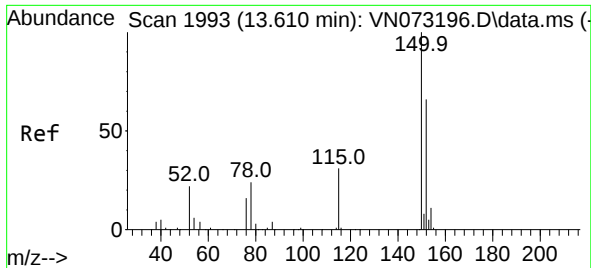
Tgt Ion:112 Resp: 221922
Ion Ratio Lower Upper
112 100
114 31.9 25.4 38.2



#71
Bromoform
Concen: 0.261 ug/l
RT: 12.657 min Scan# 1831
Delta R.T. 0.259 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion:173 Resp: 828
Ion Ratio Lower Upper
173 100
175 1415.8 24.6 73.6#
254 0.0 0.1 0.1#

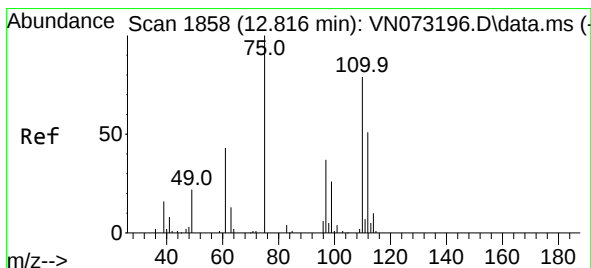
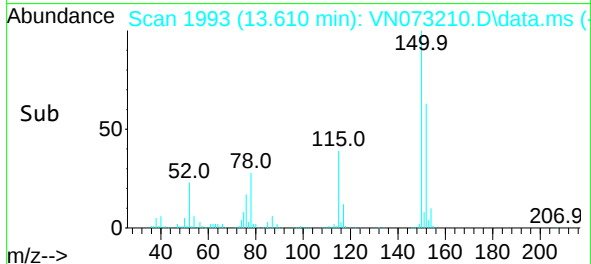
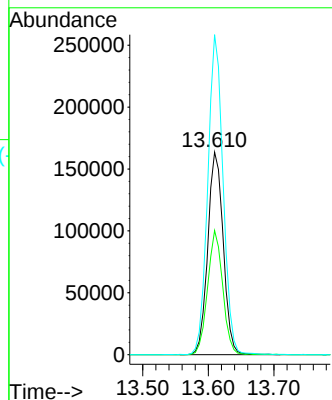
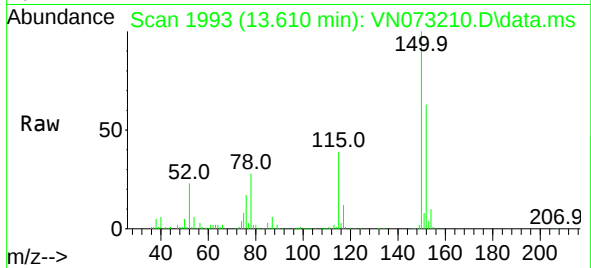




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. -0.000 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

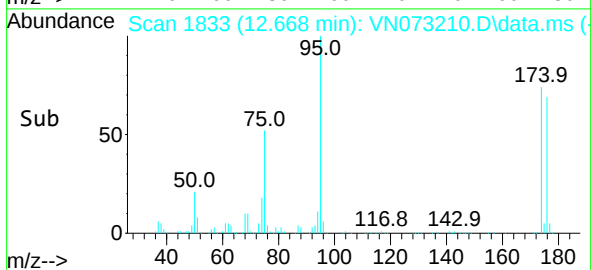
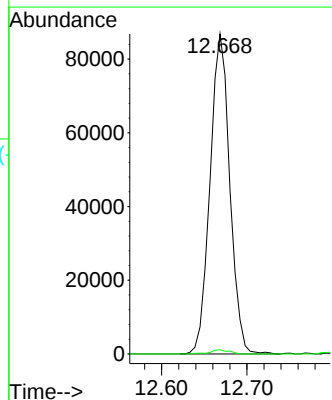
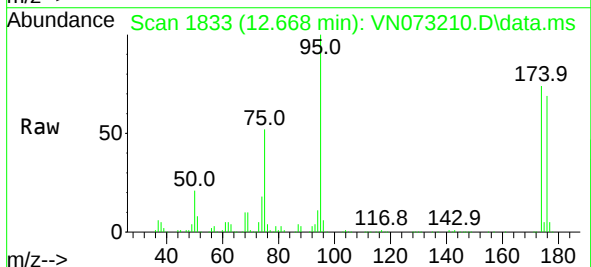
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

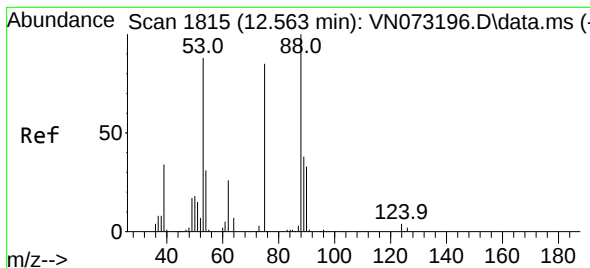
Tgt Ion:152 Resp: 268946
Ion Ratio Lower Upper
152 100
115 60.0 28.9 86.7
150 156.6 0.0 356.2



#76
1,2,3-Trichloropropane
Concen: 19.890 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.148 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion: 75 Resp: 139877
Ion Ratio Lower Upper
75 100
77 1.3 98.5 295.5#

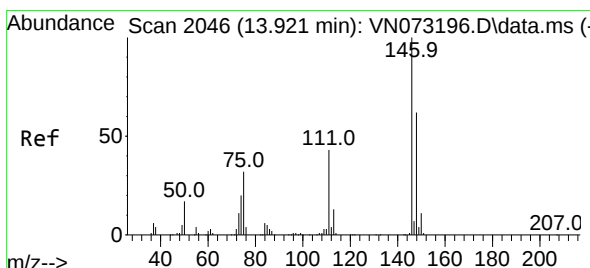
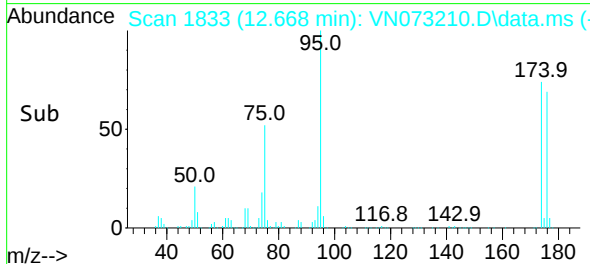
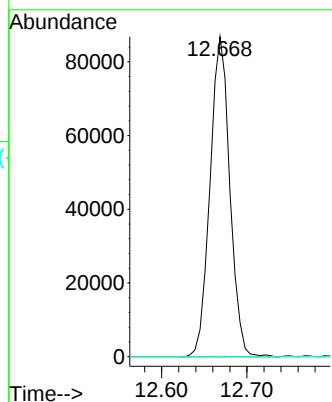
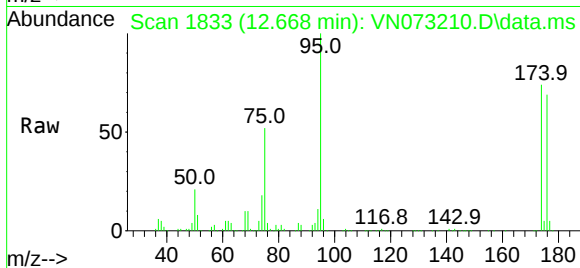




#81
trans-1,4-Dichloro-2-butene
Concen: 54.549 ug/l
RT: 12.668 min Scan# 1815
Delta R.T. 0.105 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

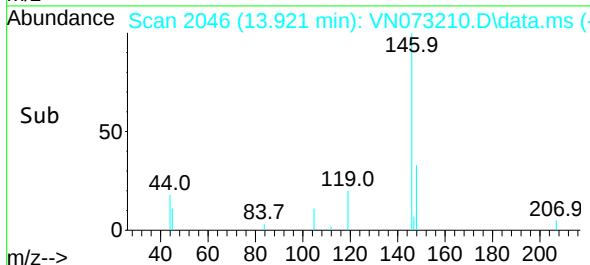
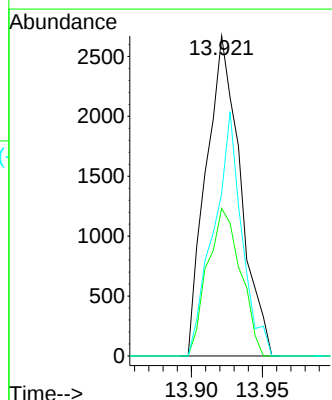
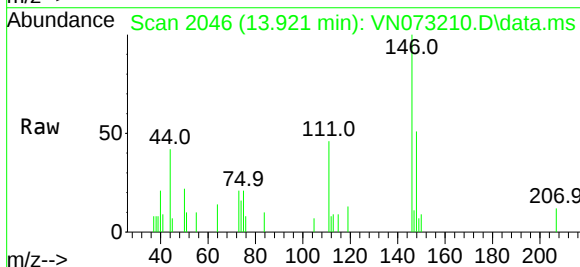
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-3DL

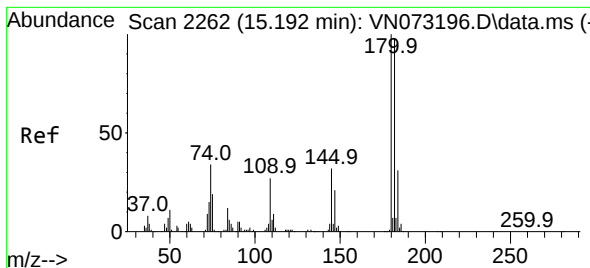
Tgt Ion: 75 Resp: 139877
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#91
1,2-Dichlorobenzene
Concen: 0.454 ug/l
RT: 13.921 min Scan# 2046
Delta R.T. 0.000 min
Lab File: VN073210.D
Acq: 28 Jun 2022 20:38

Tgt Ion:146 Resp: 4480
Ion Ratio Lower Upper
146 100
111 44.6 20.9 62.8
148 62.6 32.1 96.3





#93

1,2,4-Trichlorobenzene

Concen: 0.204 ug/l

RT: 15.198 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN073210.D

Acq: 28 Jun 2022 20:38

Instrument :

MSVOA_N

ClientSampleId :

SP-EXC-1-3DL

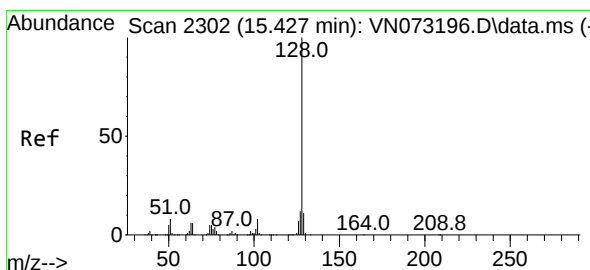
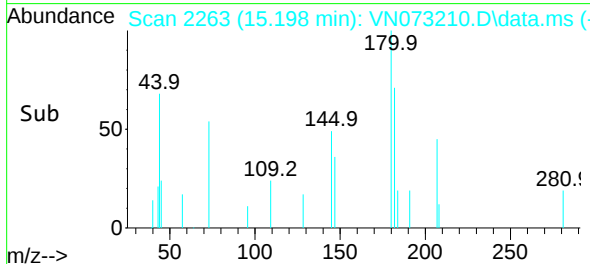
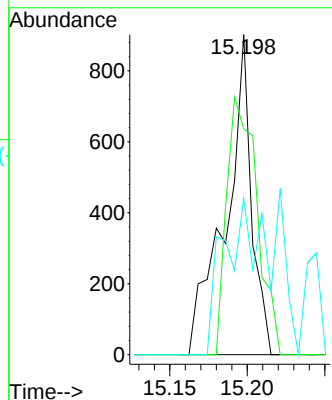
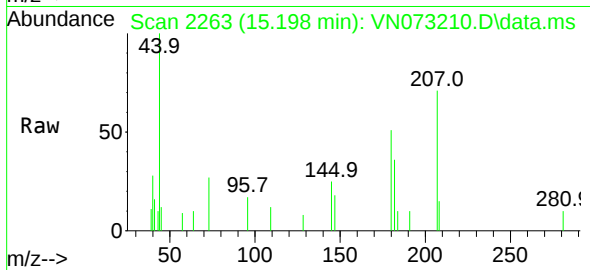
Tgt Ion:180 Resp: 1046

Ion Ratio Lower Upper

180 100

182 94.3 47.5 142.5

145 9.6 14.5 43.5#



#95

Naphthalene

Concen: 54.525 ug/l

RT: 15.433 min Scan# 2303

Delta R.T. 0.006 min

Lab File: VN073210.D

Acq: 28 Jun 2022 20:38

Tgt Ion:128 Resp: 1130190

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 10.8 8.6 13.0

