

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041123\
 Data File : VN077300.D
 Acq On : 11 Apr 2023 13:23
 Operator : JC\MD
 Sample : 02262-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 JPP-2-040723

Quant Time: Apr 12 04:40:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 06 08:27:03 2023
 Response via : Initial Calibration

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

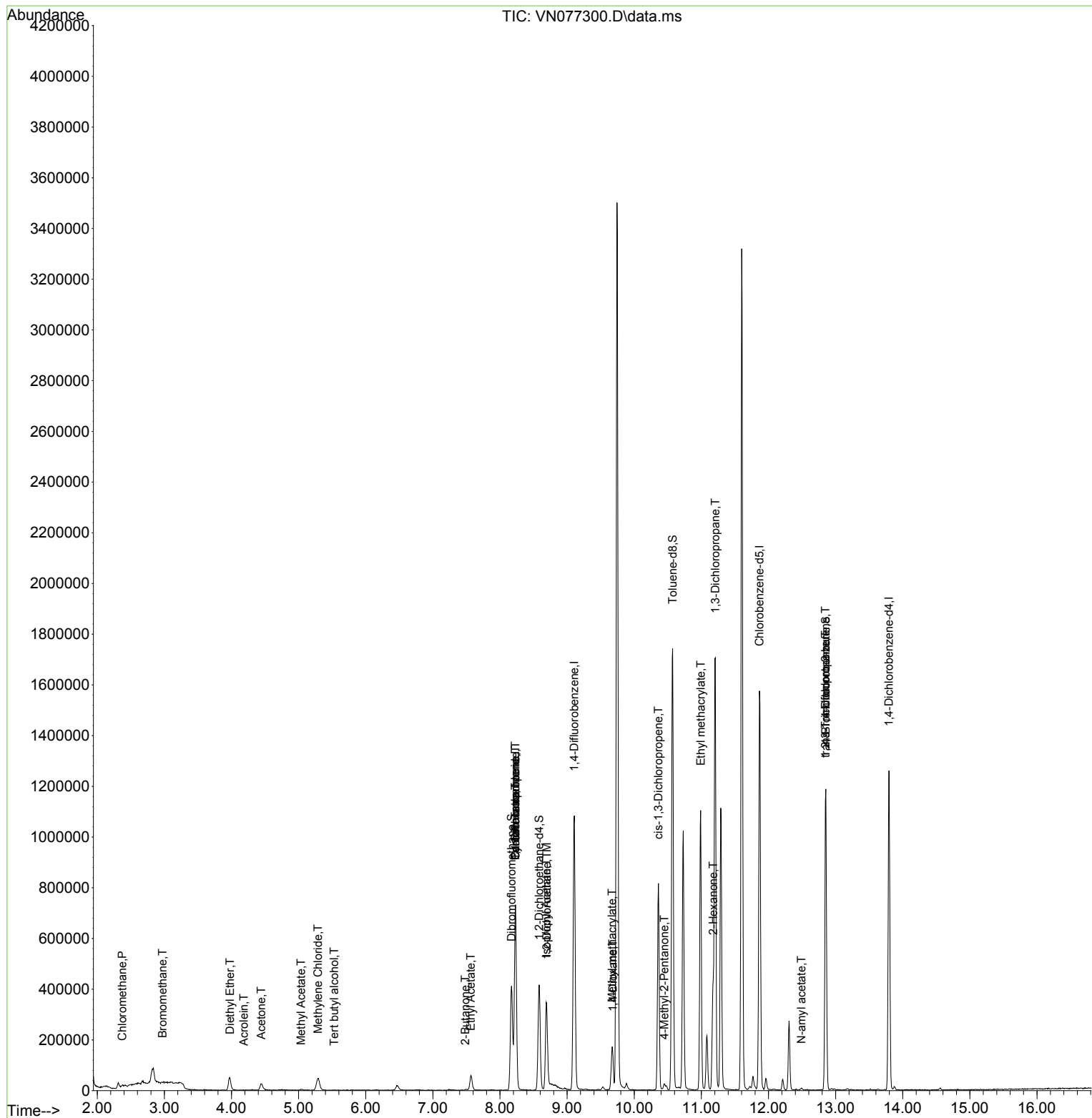
Internal Standards						
1) Pentafluorobenzene	8.230	168	522605	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	995946	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	940536	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	335830	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	325891	45.626	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.260%		
35) Dibromofluoromethane	8.172	113	301423	47.277	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.560%		
50) Toluene-d8	10.571	98	1254747	48.886	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.780%		
62) 4-Bromofluorobenzene	12.854	95	421205	49.342	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	98.680%		
Target Compounds						Qvalue
3) Chloromethane	2.372	50	1878	0.227	ug/l #	66
5) Bromomethane	2.972	94	2185	0.269	ug/l #	74
8) Diethyl Ether	3.978	74	34146	8.385	ug/l	95
11) Tert butyl alcohol	5.531	59	635	0.436	ug/l #	47
13) Acrolein	4.184	56	290	0.210	ug/l #	1
16) Acetone	4.442	43	47577	18.066	ug/l #	88
18) Methyl Acetate	5.037	43	7067	0.705	ug/l #	74
20) Methylene Chloride	5.289	84	43300	5.822	ug/l #	89
25) 2-Butanone	7.483	43	3169	0.741	ug/l #	60
31) Cyclohexane	8.230	56	13746	1.239	ug/l #	47
36) 1,1-Dichloropropene	8.230	75	44693	4.740	ug/l #	50
37) Ethyl Acetate	7.566	43	85915	10.183	ug/l	98
38) Carbon Tetrachloride	8.230	117	58020	6.006	ug/l #	14
42) 1,2-Dichloroethane	8.695	62	3177	0.351	ug/l	80
43) Isopropyl Acetate	8.689	43	402325	25.843	ug/l #	90
48) Methyl methacrylate	9.672	41	9145	1.377	ug/l #	34
49) 1,4-Dioxane	9.683	88	61	0.379	ug/l #	28
51) 4-Methyl-2-Pentanone	10.448	43	15936	1.771	ug/l	100
54) cis-1,3-Dichloropropene	10.360	75	168151	13.820	ug/l #	61
56) Ethyl methacrylate	10.989	69	3246	0.276	ug/l #	1
57) 1,3-Dichloropropane	11.207	76	20786	1.665	ug/l #	43
59) 2-Hexanone	11.177	43	301601	44.988	ug/l #	20
74) N-amyl acetate	12.489	43	4528	0.366	ug/l #	43
76) 1,2,3-Trichloropropane	12.848	75	227724	28.476	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	227724	64.081	ug/l #	13

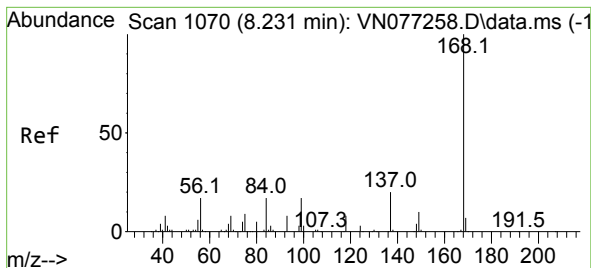
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN077300.D

Acq: 11 Apr 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :

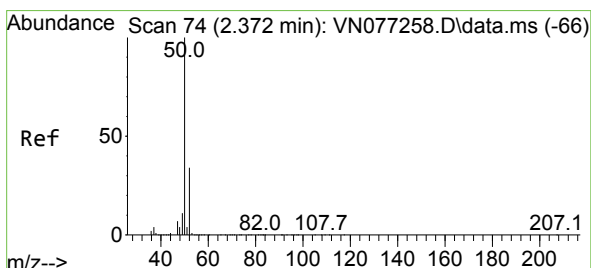
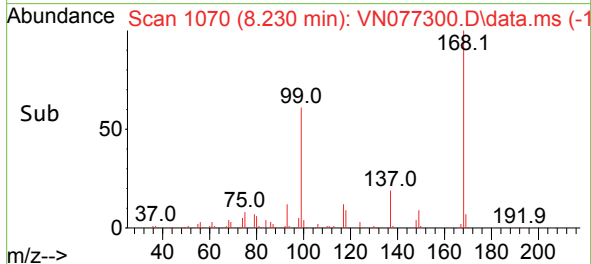
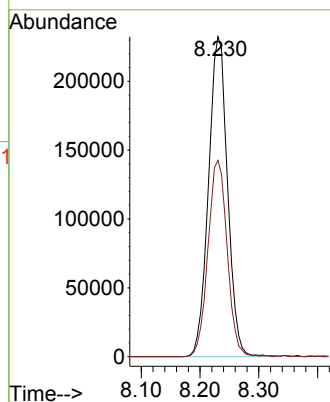
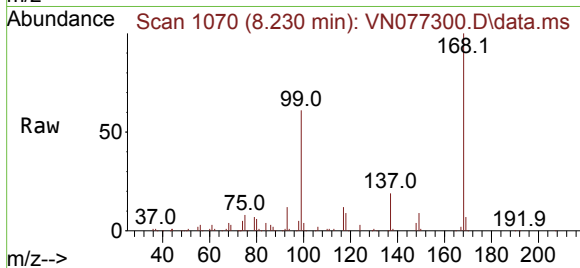
JPP-2-040723

Tgt Ion:168 Resp: 522605

Ion Ratio Lower Upper

168 100

99 61.4 50.6 75.8



#3

Chloromethane

Concen: 0.227 ug/l

RT: 2.372 min Scan# 74

Delta R.T. 0.000 min

Lab File: VN077300.D

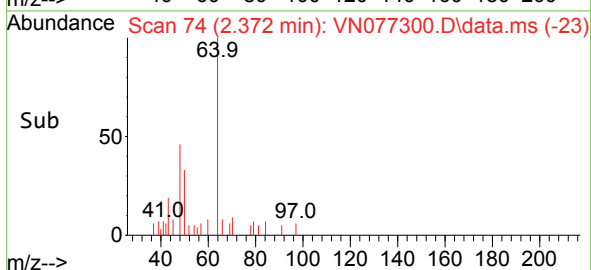
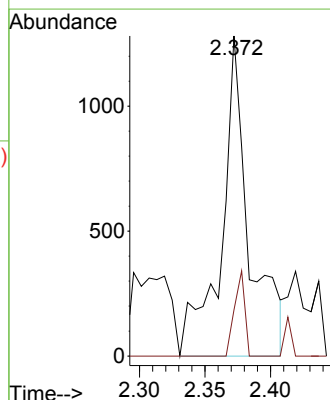
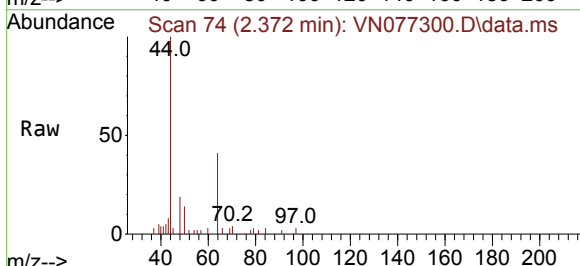
Acq: 11 Apr 2023 13:23

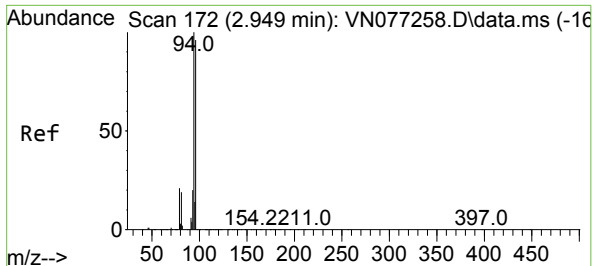
Tgt Ion: 50 Resp: 1878

Ion Ratio Lower Upper

50 100

52 14.4 27.3 40.9#

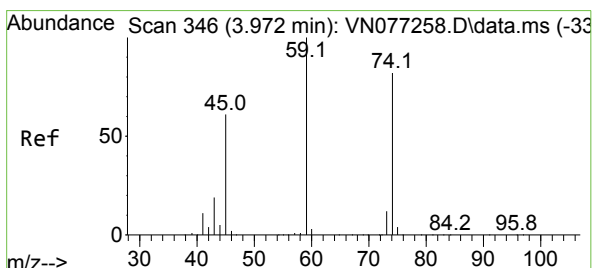
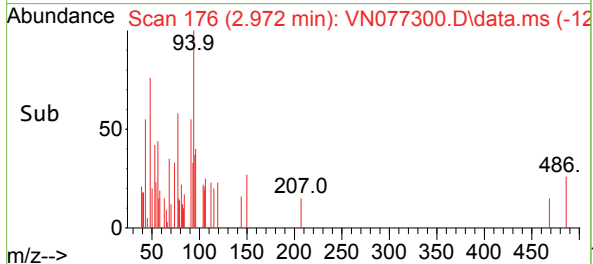
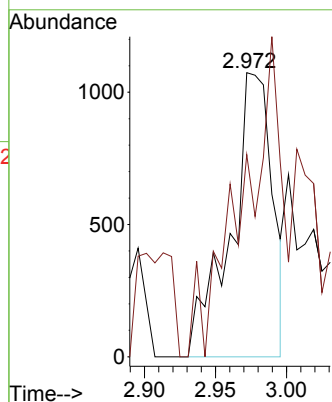
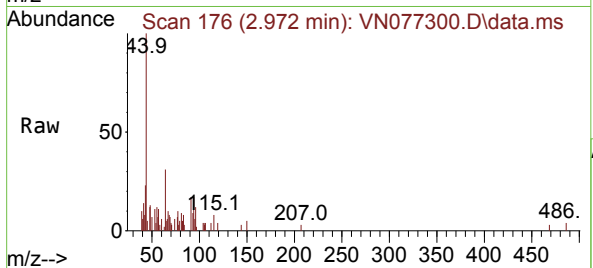




#5
Bromomethane
Concen: 0.269 ug/l
RT: 2.972 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

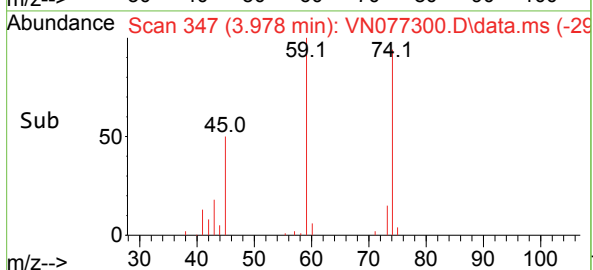
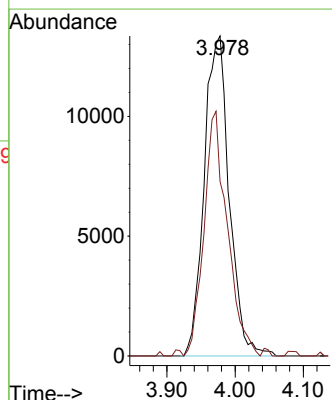
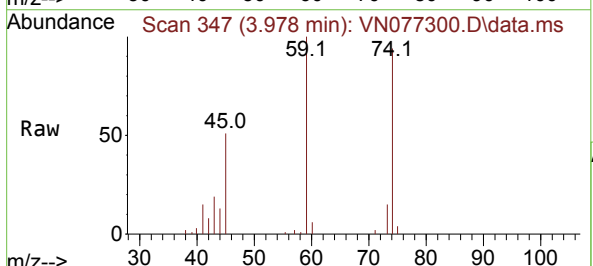
Instrument :
MSVOA_N
ClientSampleId :
JPP-2-040723

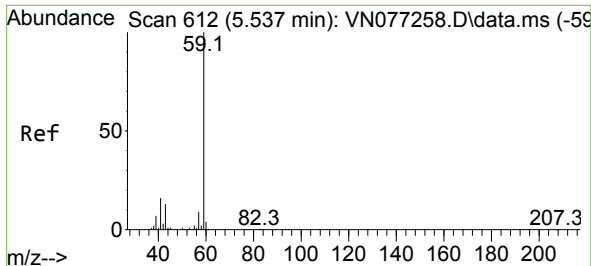
Tgt Ion: 94 Resp: 2185
Ion Ratio Lower Upper
94 100
96 71.1 77.0 115.4#



#8
Diethyl Ether
Concen: 8.385 ug/l
RT: 3.978 min Scan# 347
Delta R.T. 0.006 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

Tgt Ion: 74 Resp: 34146
Ion Ratio Lower Upper
74 100
45 71.1 37.8 113.4





#11

Tert butyl alcohol

Concen: 0.436 ug/l

RT: 5.531 min Scan# 612

Delta R.T. -0.006 min

Lab File: VN077300.D

Acq: 11 Apr 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :

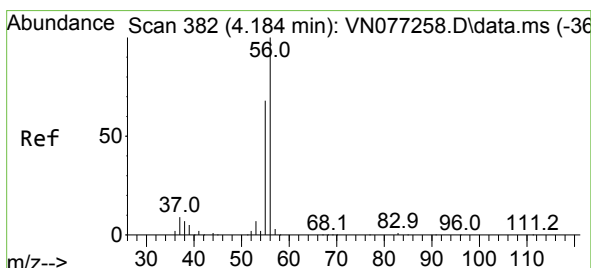
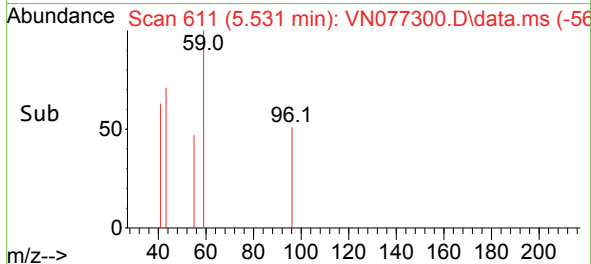
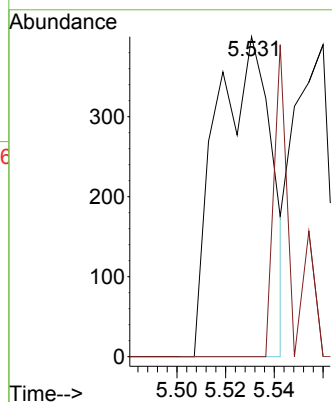
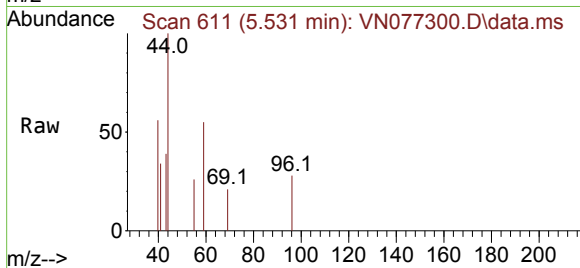
JPP-2-040723

Tgt Ion: 59 Resp: 635

Ion Ratio Lower Upper

59 100

57 30.4 8.3 12.5#



#13

Acrolein

Concen: 0.210 ug/l

RT: 4.184 min Scan# 382

Delta R.T. -0.000 min

Lab File: VN077300.D

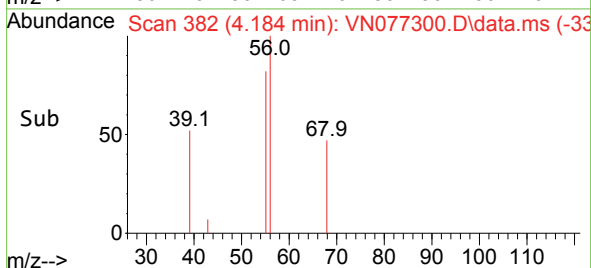
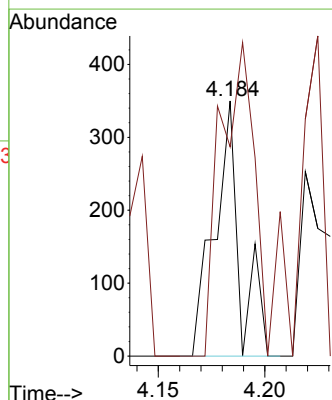
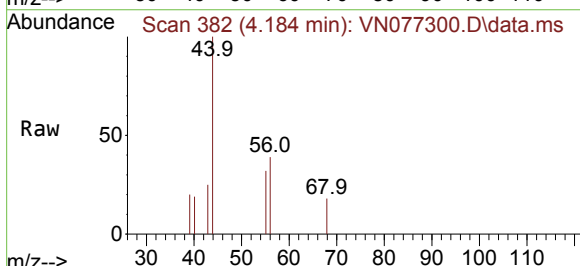
Acq: 11 Apr 2023 13:23

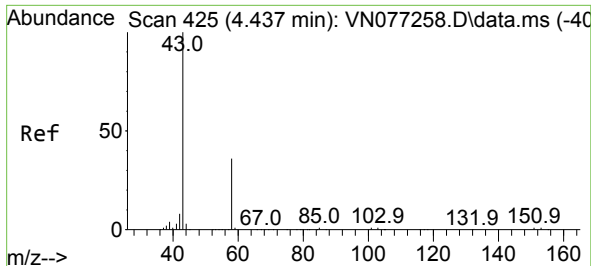
Tgt Ion: 56 Resp: 290

Ion Ratio Lower Upper

56 100

55 162.1 54.2 81.2#

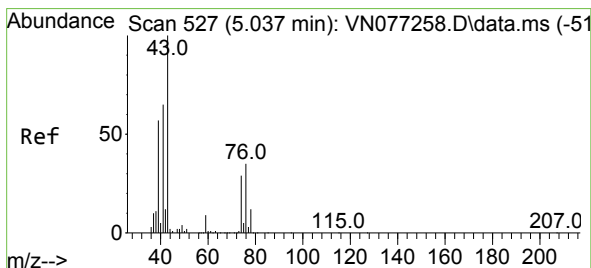
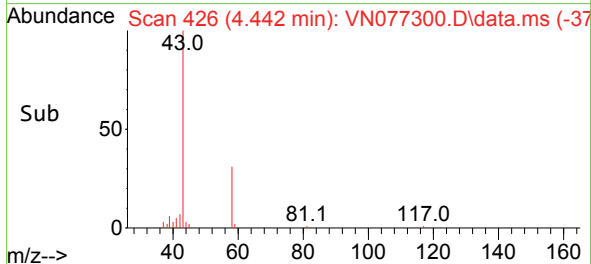
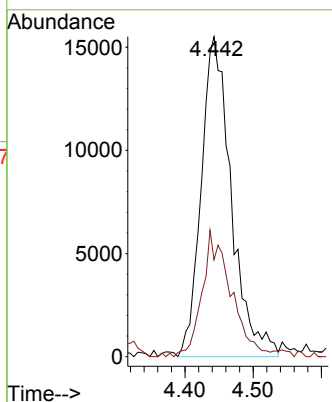
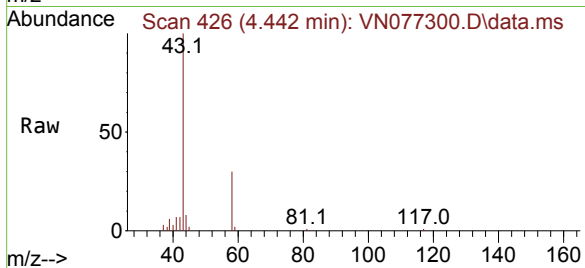




#16
Acetone
Concen: 18.066 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.005 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

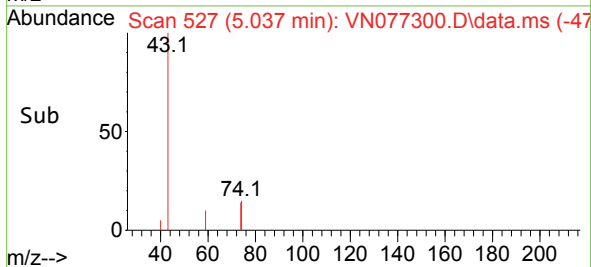
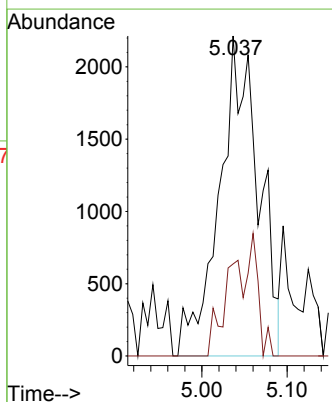
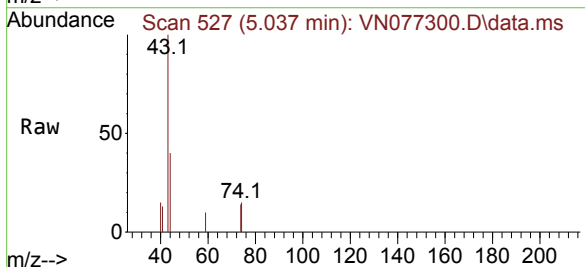
Instrument :
MSVOA_N
ClientSampleId :
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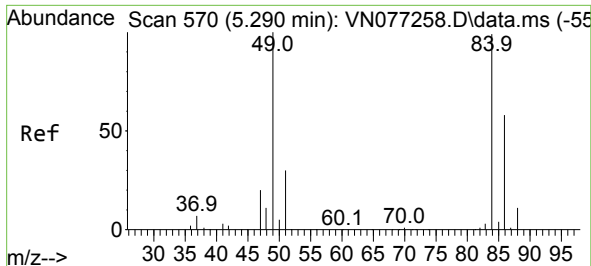
Tgt Ion: 43 Resp: 47577
Ion Ratio Lower Upper
43 100
58 29.0 29.0 43.6#



#18
Methyl Acetate
Concen: 0.705 ug/l
RT: 5.037 min Scan# 527
Delta R.T. -0.000 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

Tgt Ion: 43 Resp: 7067
Ion Ratio Lower Upper
43 100
74 15.2 23.4 35.2#

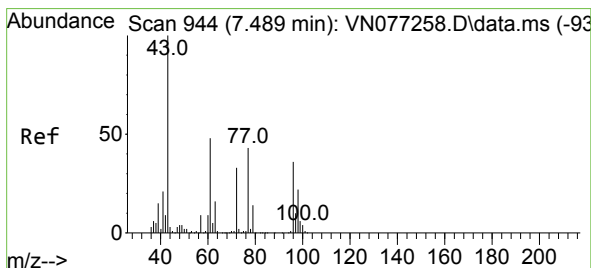
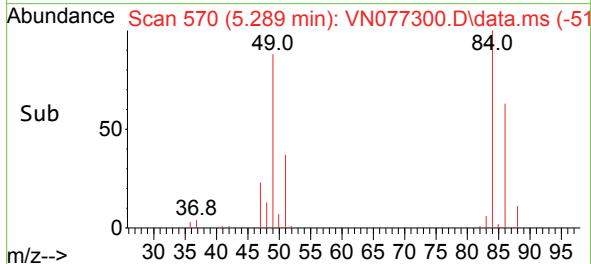
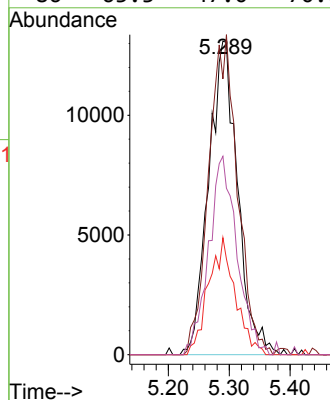
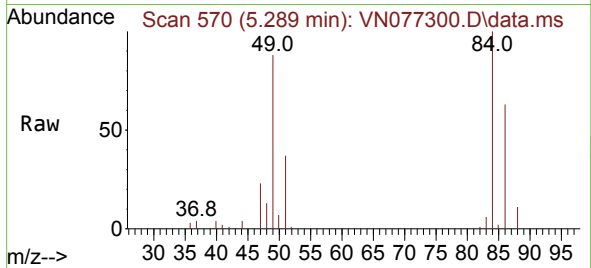




#20
Methylene Chloride
Concen: 5.822 ug/l
RT: 5.289 min Scan# 51
Delta R.T. -0.001 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

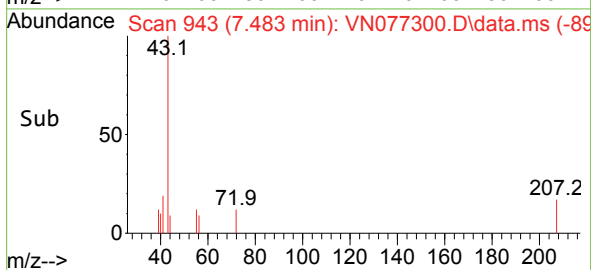
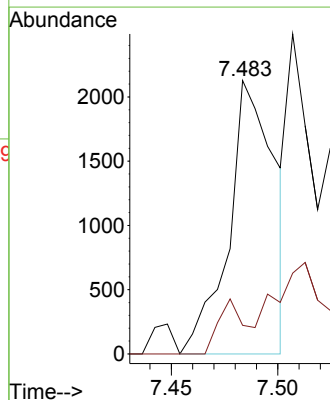
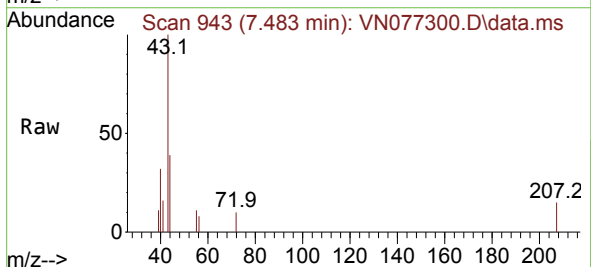
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MSVOA_N
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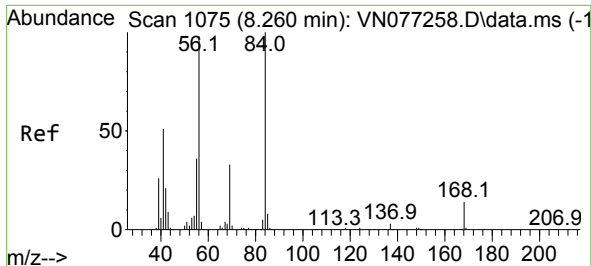
Tgt Ion:	84	Resp:	43300
Ion	Ratio	Lower	Upper
84	100		
49	88.0	80.6	121.0
51	37.3	24.4	36.6#
86	63.3	47.0	70.6



#25
2-Butanone
Concen: 0.741 ug/l
RT: 7.483 min Scan# 943
Delta R.T. -0.006 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

Tgt Ion:	43	Resp:	3169
Ion	Ratio	Lower	Upper
43	100		
72	10.5	26.6	39.8#

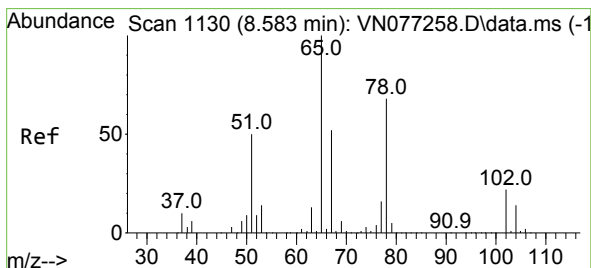
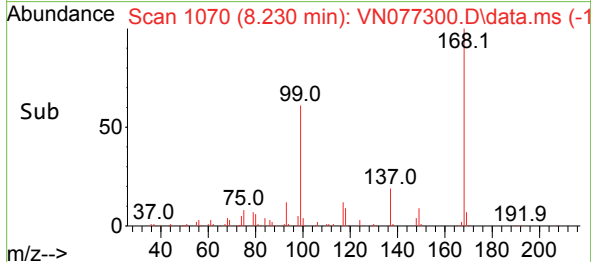
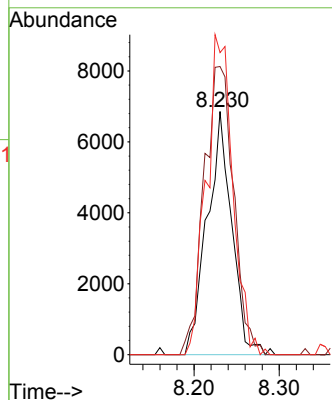
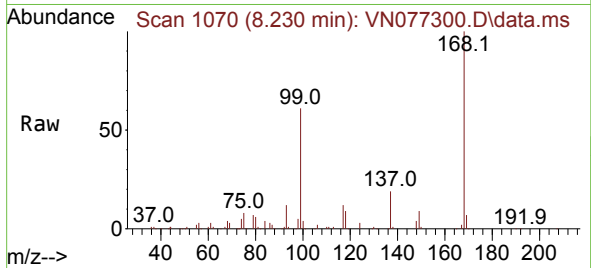




#31
Cyclohexane
Concen: 1.239 ug/l
RT: 8.230 min Scan# 1075
Delta R.T. -0.030 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

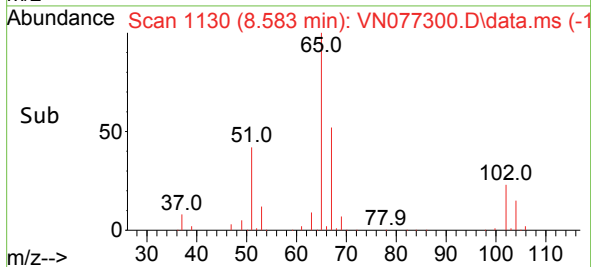
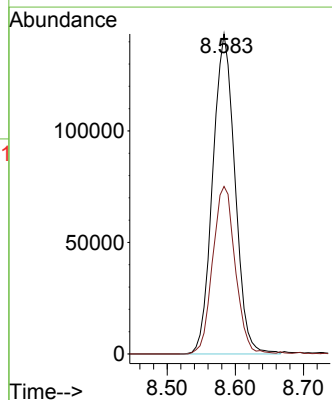
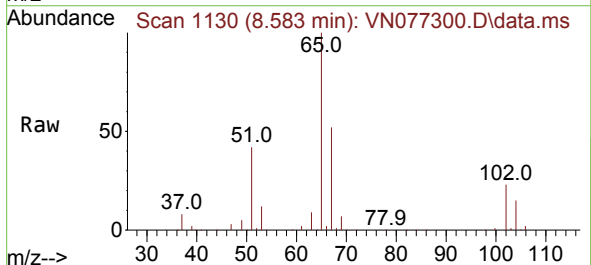
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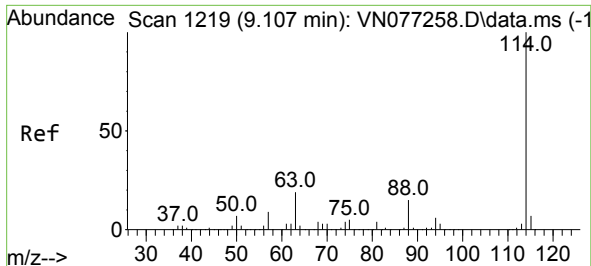
Tgt Ion: 56 Resp: 13746
Ion Ratio Lower Upper
56 100
69 118.5 26.6 40.0#
84 124.2 81.8 122.8#



#33
1,2-Dichloroethane-d4
Concen: 45.626 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

Tgt Ion: 65 Resp: 325891
Ion Ratio Lower Upper
65 100
67 53.1 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077300.D

Acq: 11 Apr 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :

JPP-2-040723

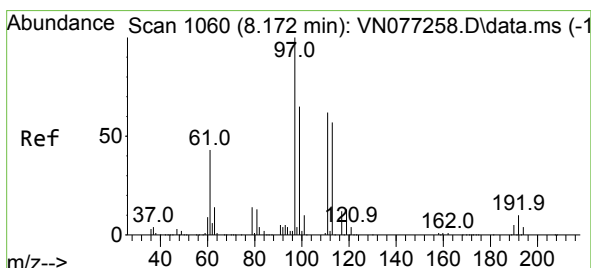
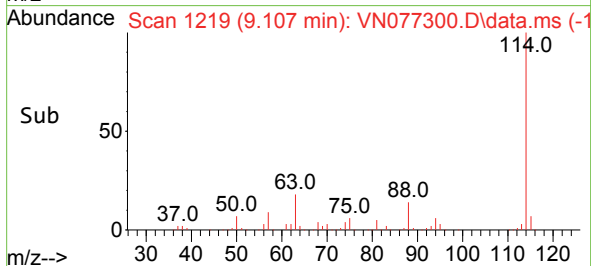
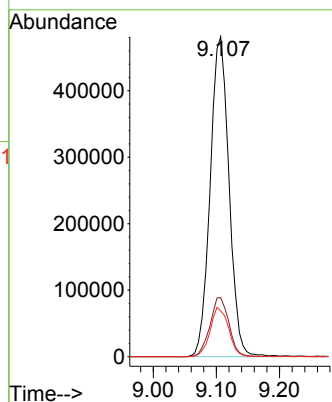
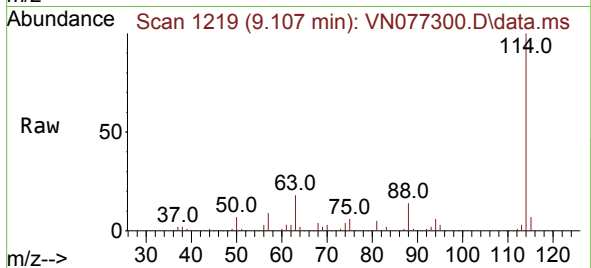
Tgt Ion:114 Resp: 995946

Ion Ratio Lower Upper

114 100

63 18.5 0.0 37.8

88 14.3 0.0 29.4



#35

Dibromofluoromethane

Concen: 47.277 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077300.D

Acq: 11 Apr 2023 13:23

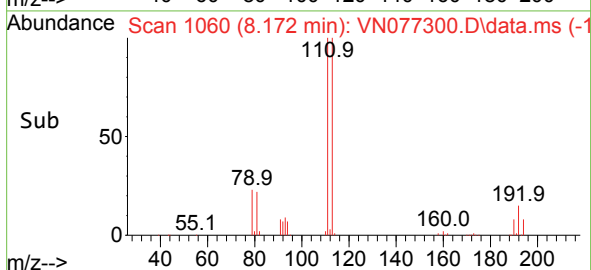
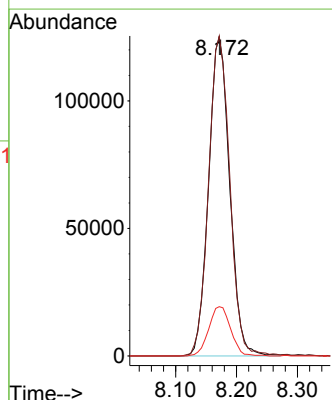
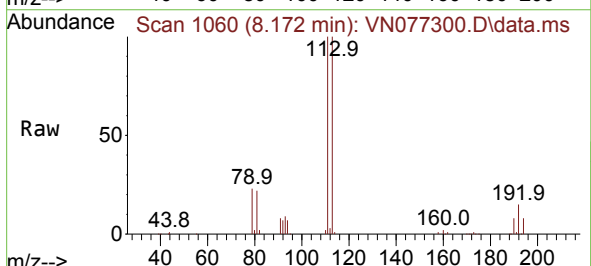
Tgt Ion:113 Resp: 301423

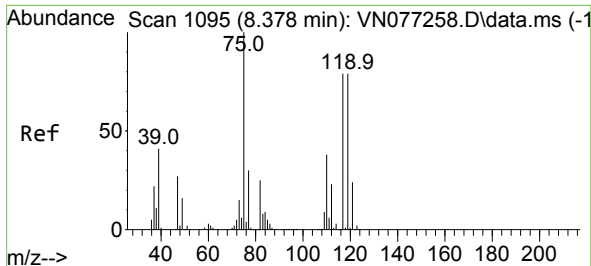
Ion Ratio Lower Upper

113 100

111 100.6 83.4 125.0

192 16.0 13.5 20.3





#36

1,1-Dichloropropene

Concen: 4.740 ug/l

RT: 8.230 min Scan# 1095

Delta R.T. -0.148 min

Lab File: VN077300.D

Acq: 11 Apr 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :

JPP-2-040723

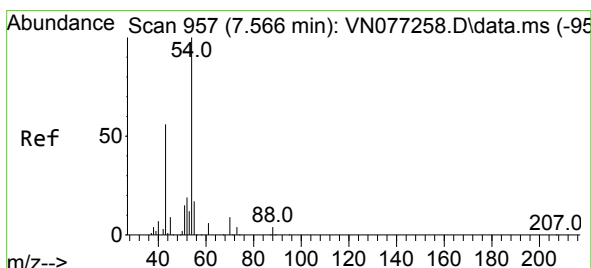
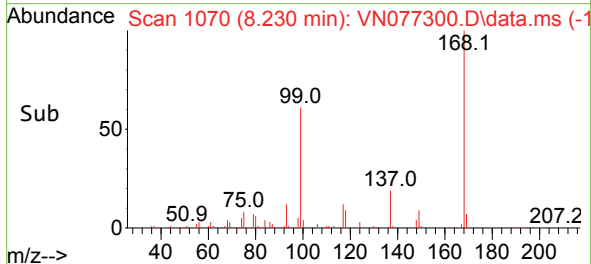
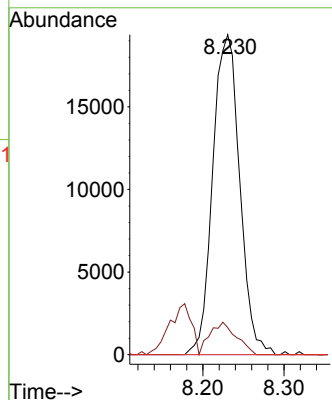
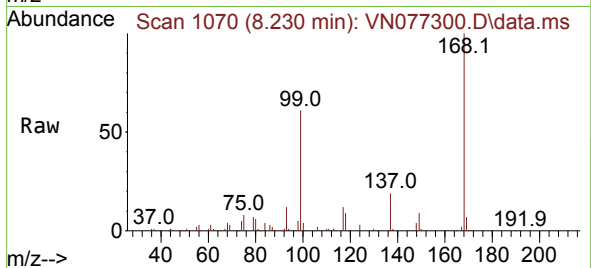
Tgt Ion: 75 Resp: 44693

Ion Ratio Lower Upper

75 100

110 10.0 17.8 53.5#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 10.183 ug/l

RT: 7.566 min Scan# 957

Delta R.T. -0.000 min

Lab File: VN077300.D

Acq: 11 Apr 2023 13:23

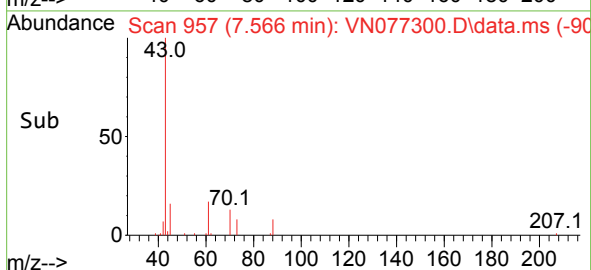
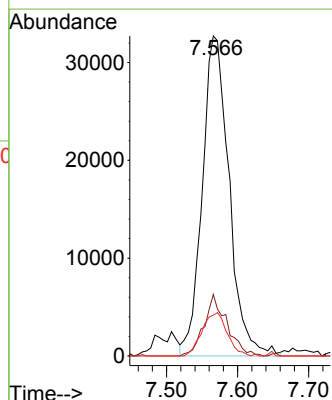
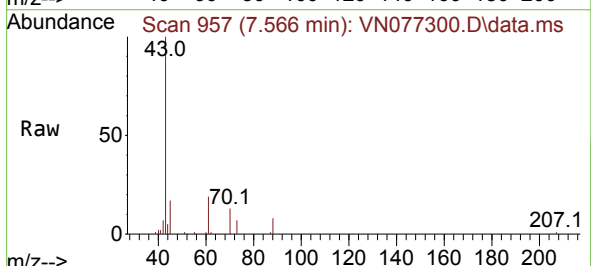
Tgt Ion: 43 Resp: 85915

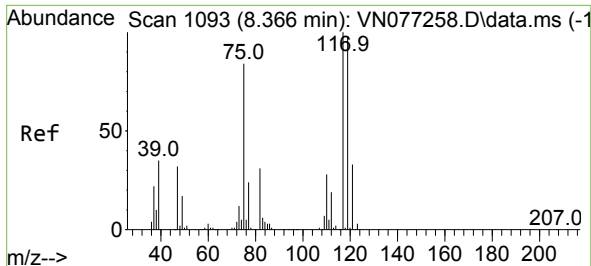
Ion Ratio Lower Upper

43 100

61 16.4 12.2 18.2

70 12.8 10.0 15.0

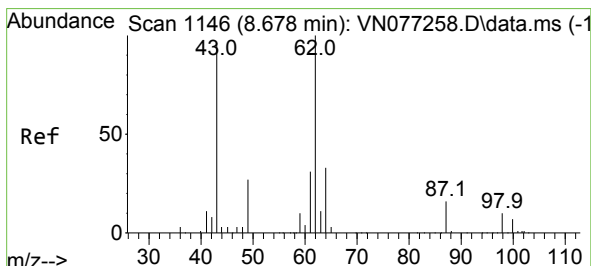
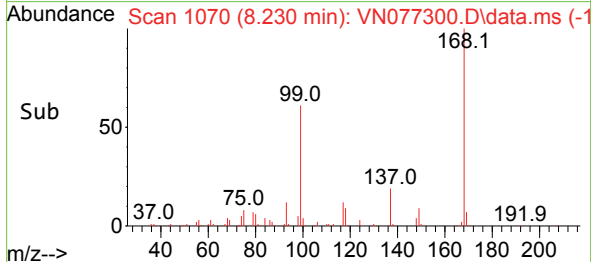
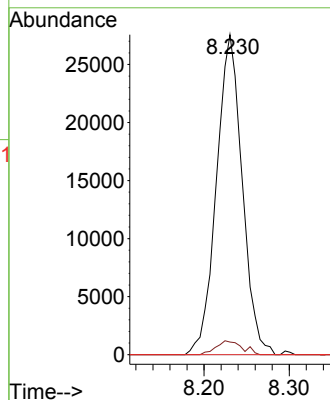
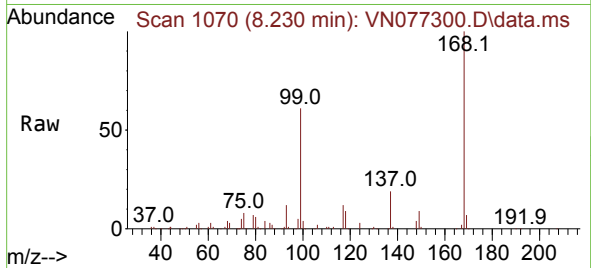




#38
Carbon Tetrachloride
Concen: 6.006 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.136 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

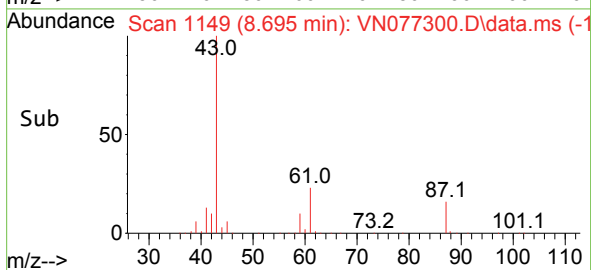
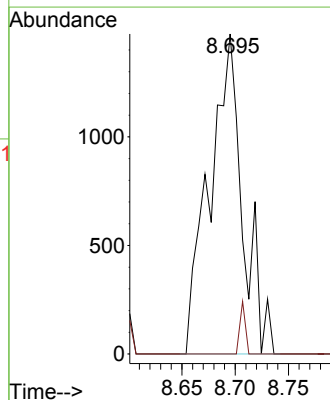
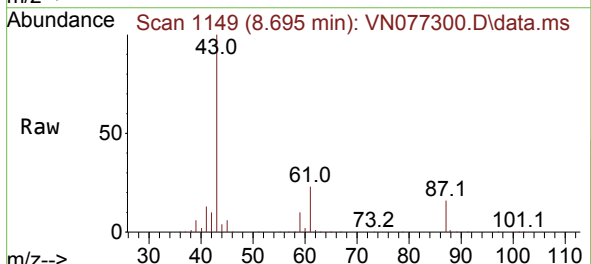
Instrument :
MSVOA_N
ClientSampleId :
JPP-2-040723

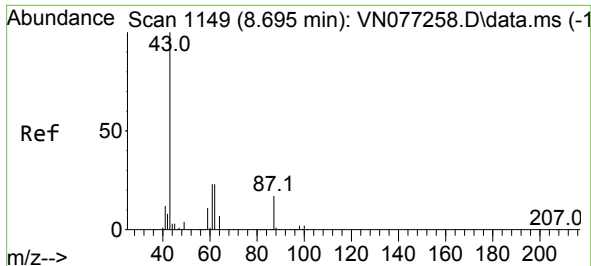
Tgt Ion:117 Resp: 58020
Ion Ratio Lower Upper
117 100
119 4.0 78.5 117.7#
121 0.0 26.6 40.0#



#42
1,2-Dichloroethane
Concen: 0.351 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. 0.017 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

Tgt Ion: 62 Resp: 3177
Ion Ratio Lower Upper
62 100
98 2.7 0.0 20.2

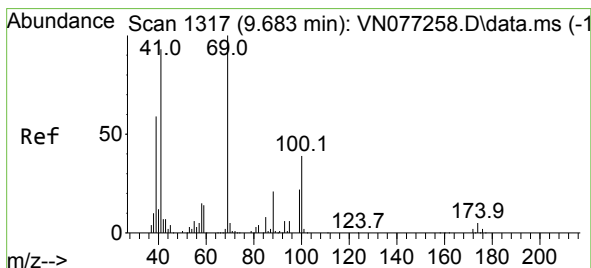
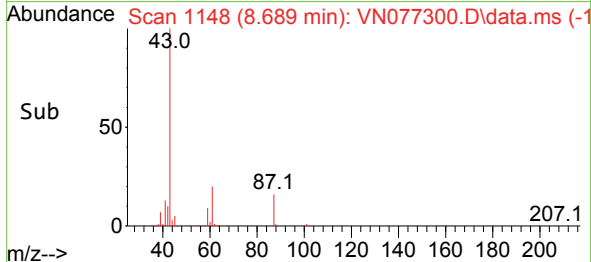
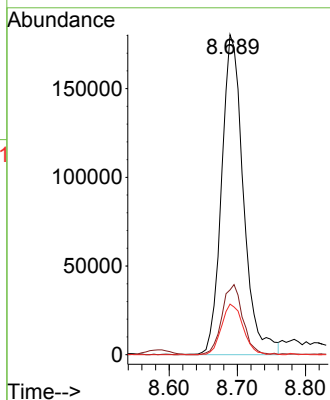
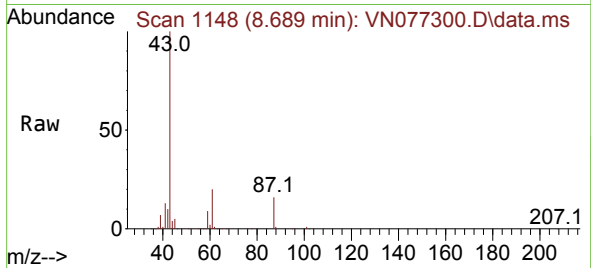




#43
Isopropyl Acetate
Concen: 25.843 ug/l
RT: 8.689 min Scan# 1148
Delta R.T. -0.006 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

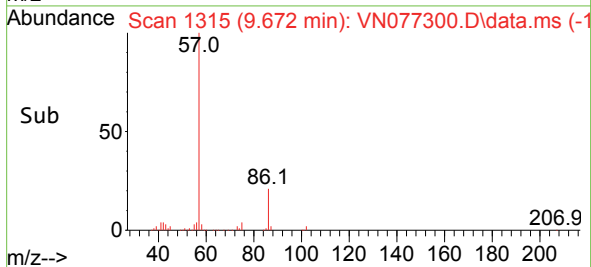
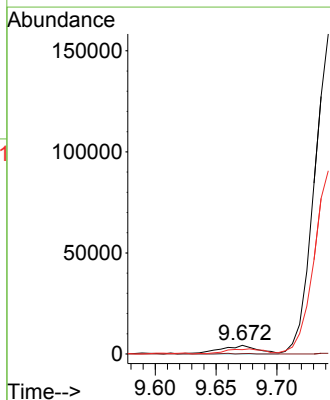
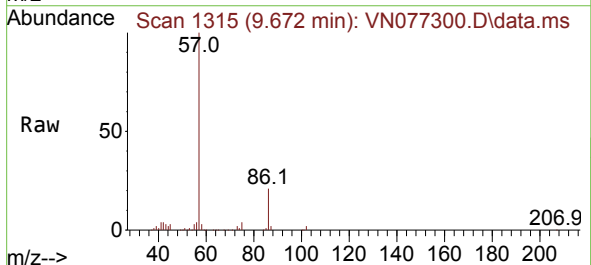
Instrument :
MSVOA_N
ClientSampleId :
JPP-2-040723

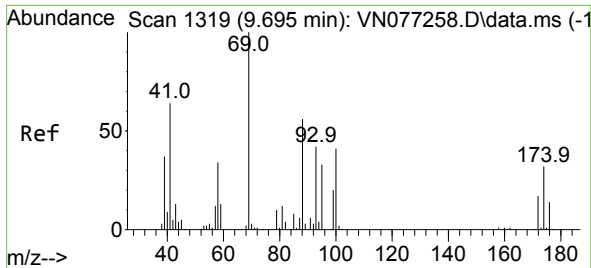
Tgt Ion: 43 Resp: 402325
Ion Ratio Lower Upper
43 100
61 20.9 22.7 34.1#
87 15.6 13.6 20.4



#48
Methyl methacrylate
Concen: 1.377 ug/l
RT: 9.672 min Scan# 1315
Delta R.T. -0.011 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

Tgt Ion: 41 Resp: 9145
Ion Ratio Lower Upper
41 100
69 1.8 85.0 127.6#
39 58.6 53.5 80.3





#49

1,4-Dioxane

Concen: 0.379 ug/l

RT: 9.683 min Scan# 1

Delta R.T. -0.012 min

Lab File: VN077300.D

Acq: 11 Apr 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :

JPP-2-040723

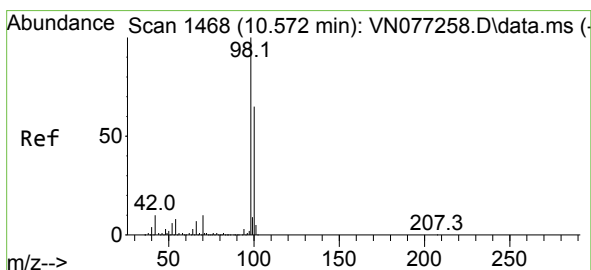
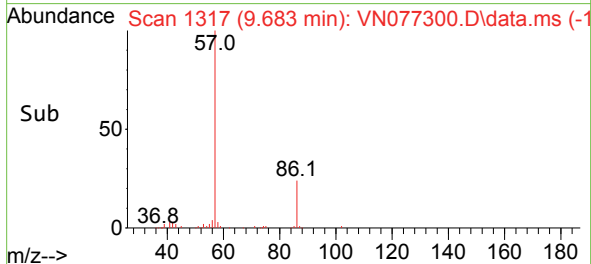
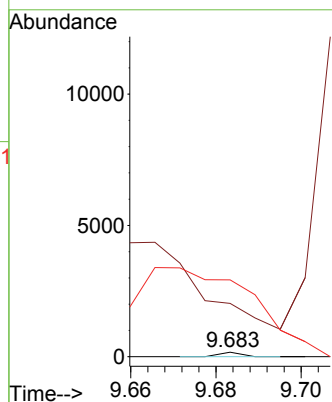
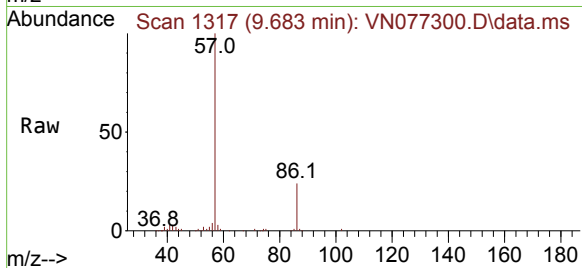
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 49.8 74.6#



#50

Toluene-d8

Concen: 48.886 ug/l

RT: 10.571 min Scan# 1468

Delta R.T. -0.001 min

Lab File: VN077300.D

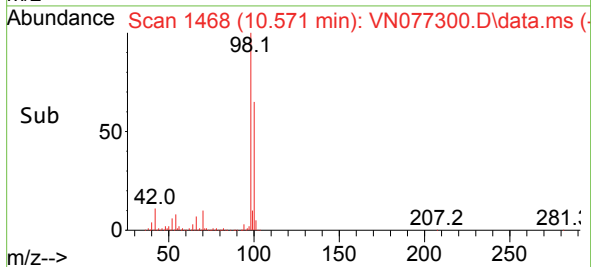
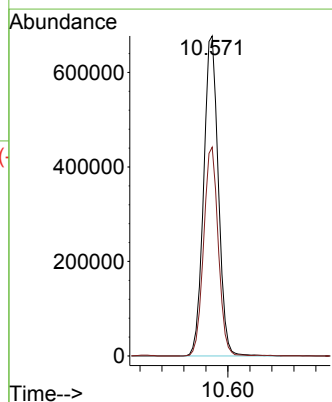
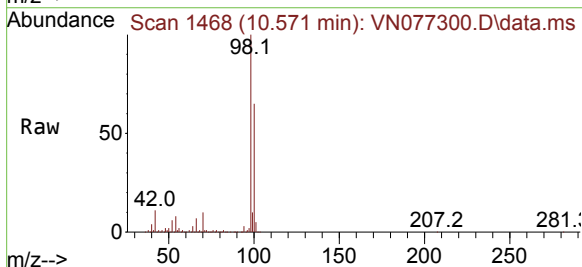
Acq: 11 Apr 2023 13:23

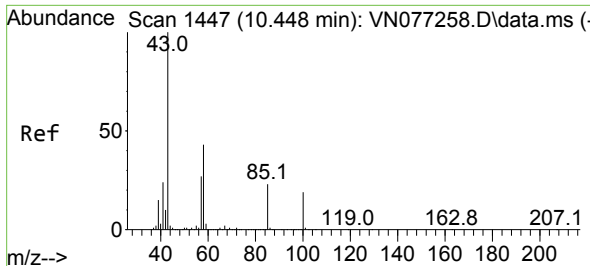
Tgt Ion: 98 Resp: 1254747

Ion Ratio Lower Upper

98 100

100 64.9 51.3 76.9

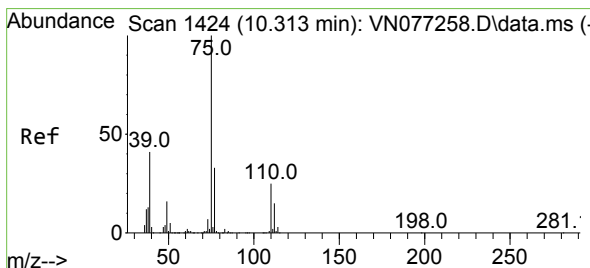
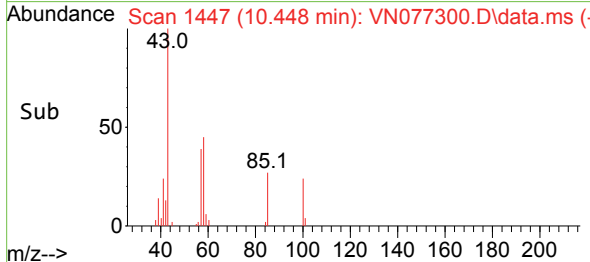
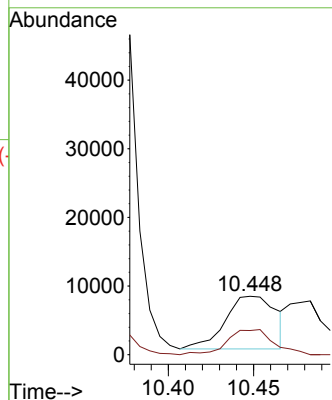
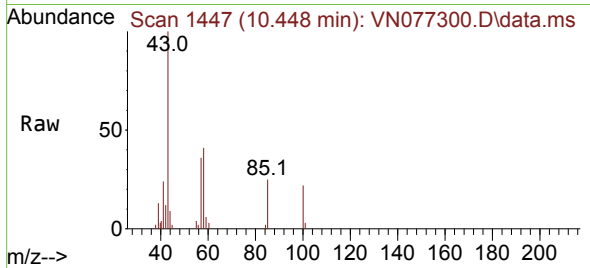




#51
4-Methyl-2-Pentanone
Concen: 1.771 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

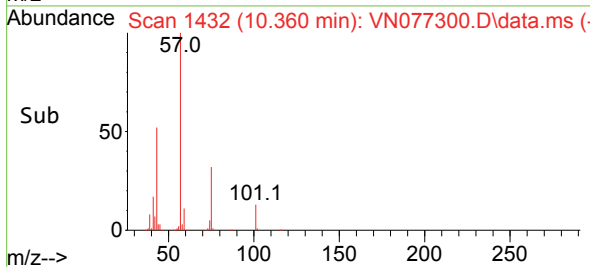
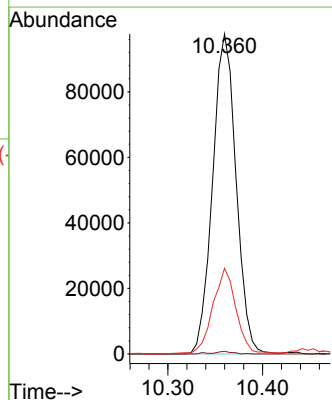
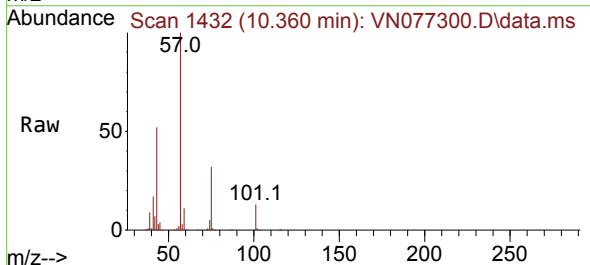
Instrument :
MSVOA_N
ClientSampleId :
JPP-2-040723

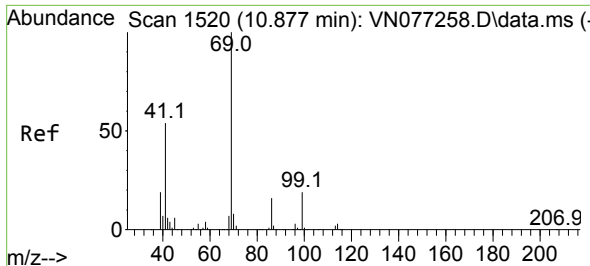
Tgt Ion: 43 Resp: 15936
Ion Ratio Lower Upper
43 100
58 43.2 34.6 52.0



#54
cis-1,3-Dichloropropene
Concen: 13.820 ug/l
RT: 10.360 min Scan# 1432
Delta R.T. 0.047 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

Tgt Ion: 75 Resp: 168151
Ion Ratio Lower Upper
75 100
77 0.9 26.7 40.1#
39 26.5 32.8 49.2#

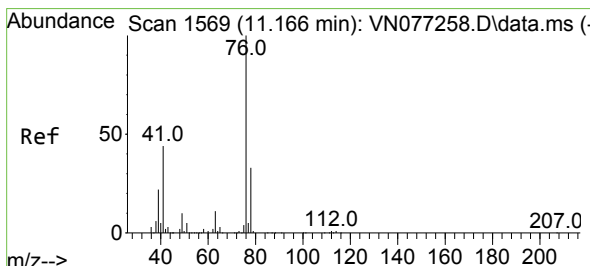
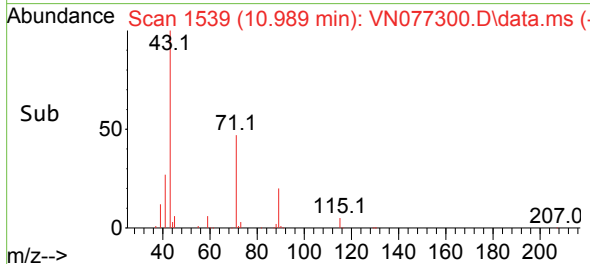
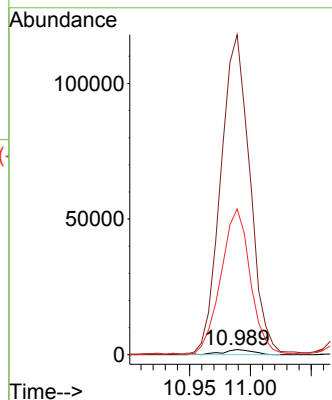
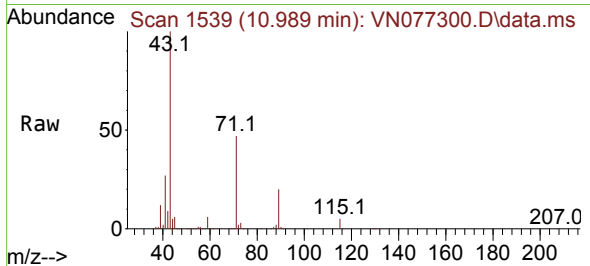




#56
Ethyl methacrylate
Concen: 0.276 ug/l
RT: 10.989 min Scan# 1539
Delta R.T. 0.112 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

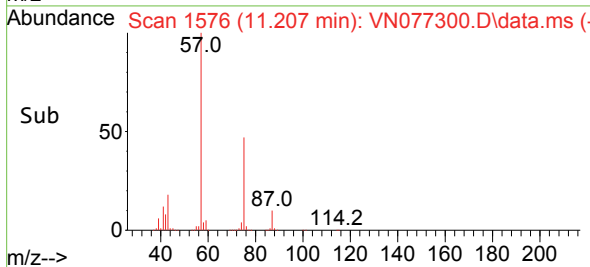
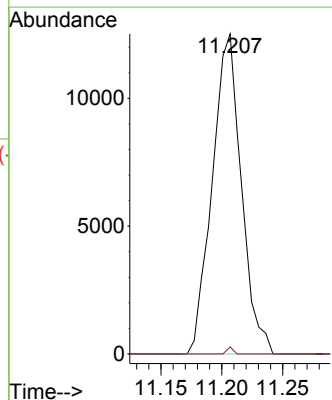
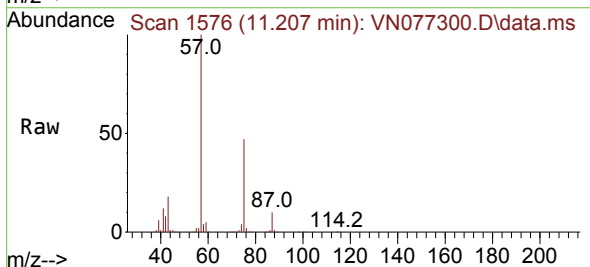
Instrument :
MSVOA_N
ClientSampleId :
JPP-2-040723

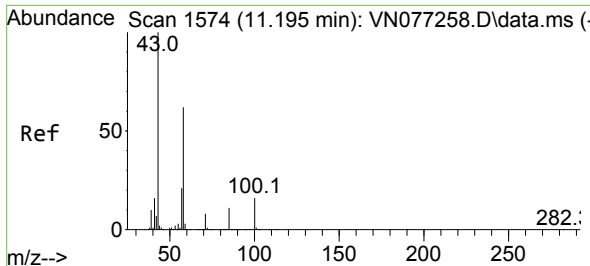
Tgt Ion: 69 Resp: 3246
Ion Ratio Lower Upper
69 100
41 6024.0 42.8 64.2#
39 2815.2 27.0 40.4#



#57
1,3-Dichloropropane
Concen: 1.665 ug/l
RT: 11.207 min Scan# 1576
Delta R.T. 0.041 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

Tgt Ion: 76 Resp: 20786
Ion Ratio Lower Upper
76 100
78 0.5 26.2 39.4#

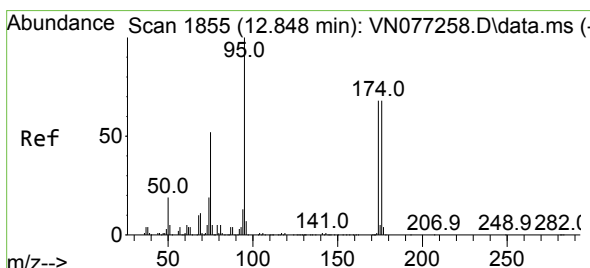
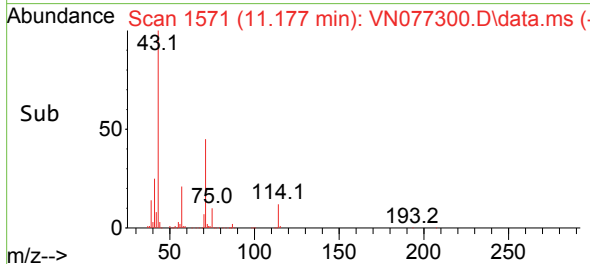
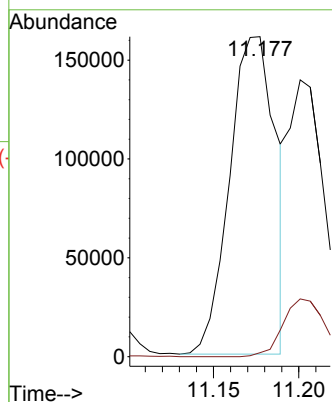
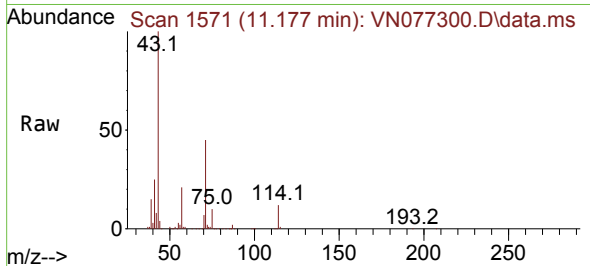




#59
2-Hexanone
Concen: 44.988 ug/l
RT: 11.177 min Scan# 111
Delta R.T. -0.018 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

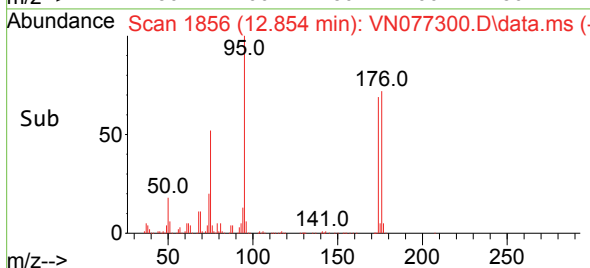
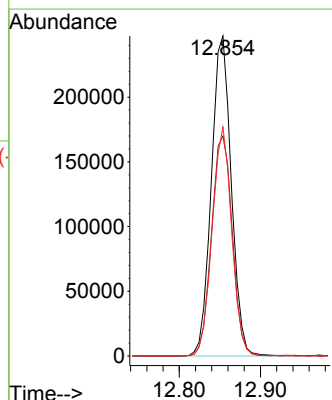
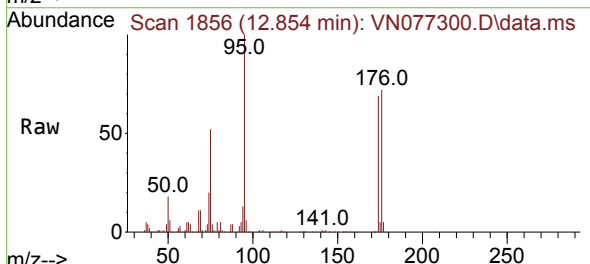
Instrument :
MSVOA_N
ClientSampleId :
JPP-2-040723

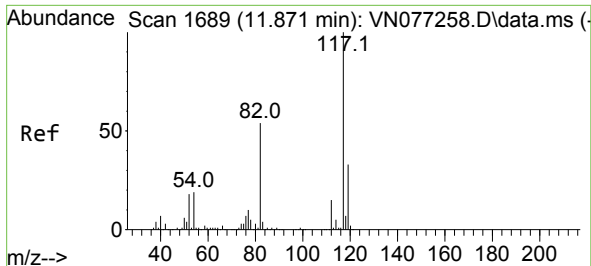
Tgt Ion: 43 Resp: 301601
Ion Ratio Lower Upper
43 100
58 0.0 30.9 92.5#



#62
4-Bromofluorobenzene
Concen: 49.342 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

Tgt Ion: 95 Resp: 421205
Ion Ratio Lower Upper
95 100
174 71.6 0.0 146.8
176 70.1 0.0 139.6

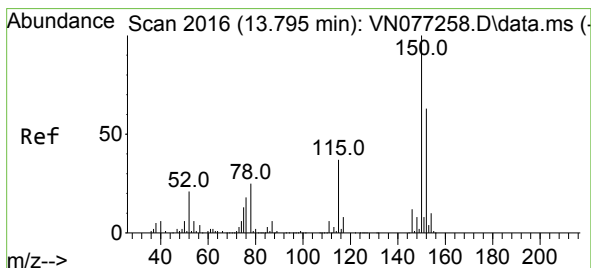
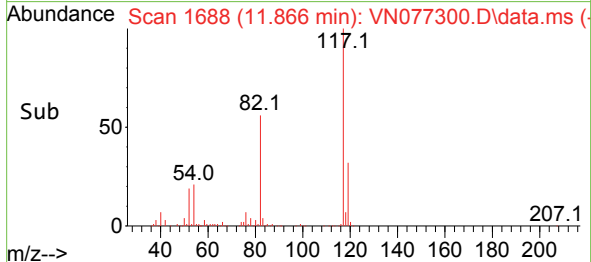
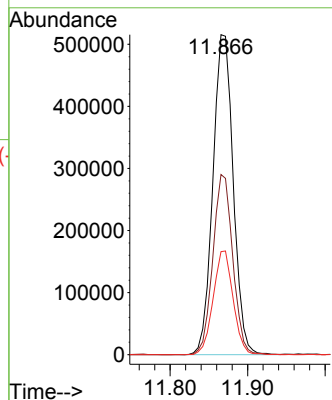
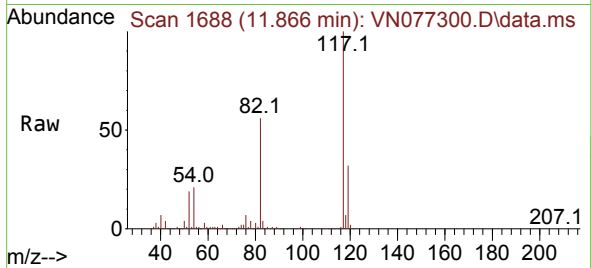




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1171
Delta R.T. -0.005 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

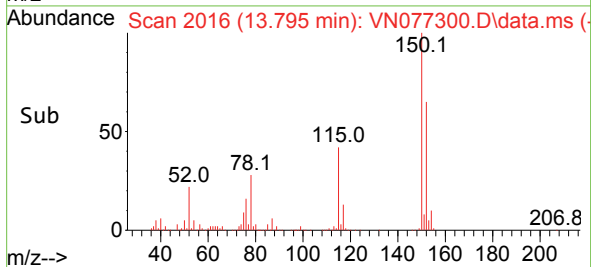
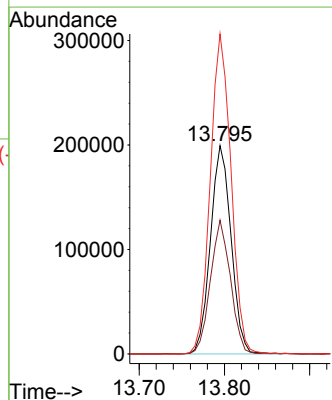
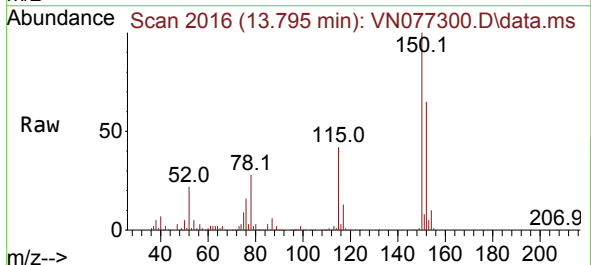
Instrument :
MSVOA_N
ClientSampleId :
JPP-2-040723

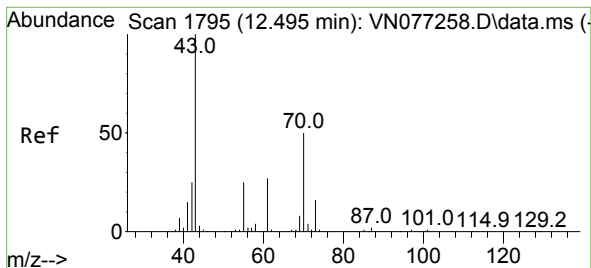
Tgt Ion:117 Resp: 940536
Ion Ratio Lower Upper
117 100
82 56.3 42.9 64.3
119 32.2 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

Tgt Ion:152 Resp: 335830
Ion Ratio Lower Upper
152 100
115 62.3 32.1 96.3
150 154.5 0.0 354.8





#74

N-amy1 acetate

Concen: 0.366 ug/l

RT: 12.489 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN077300.D

Acq: 11 Apr 2023 13:23

Instrument :

MSVOA_N

ClientSampleId :

JPP-2-040723

Tgt Ion: 43 Resp: 4528

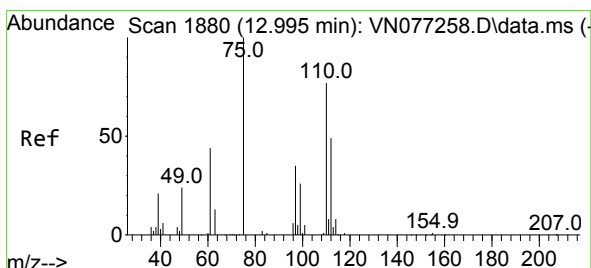
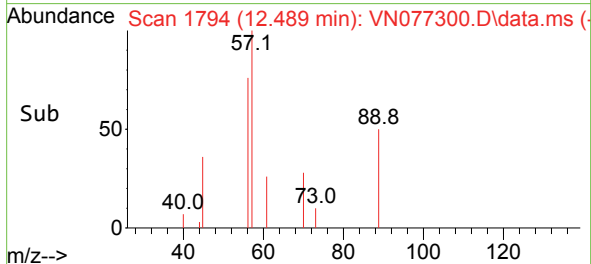
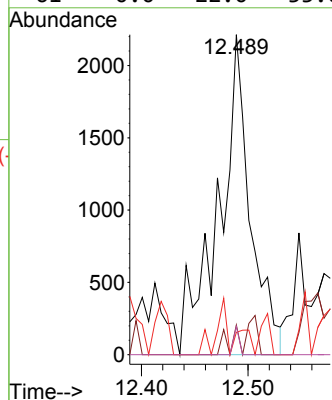
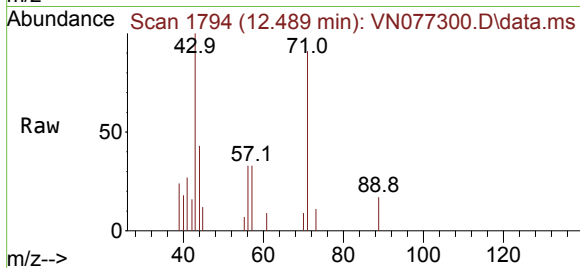
Ion Ratio Lower Upper

43 100

70 5.4 41.0 61.6#

55 2.7 19.3 28.9#

61 0.0 22.0 33.0#



#76

1,2,3-Trichloropropane

Concen: 28.476 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. -0.147 min

Lab File: VN077300.D

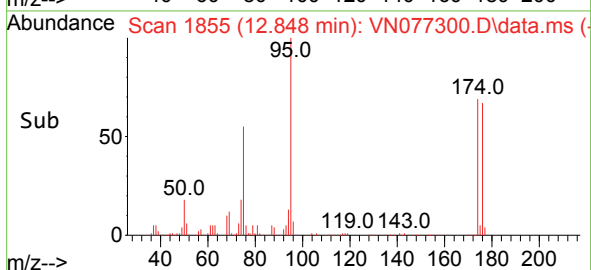
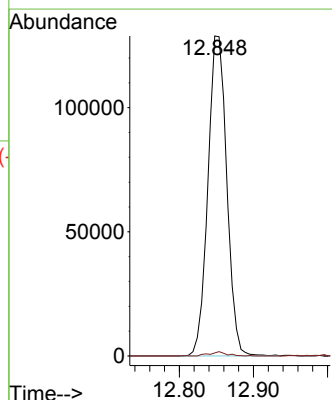
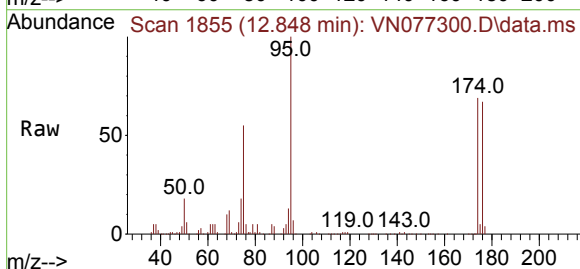
Acq: 11 Apr 2023 13:23

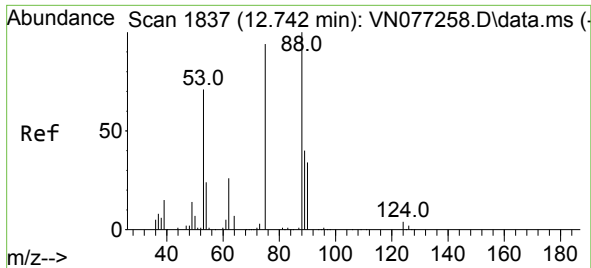
Tgt Ion: 75 Resp: 227724

Ion Ratio Lower Upper

75 100

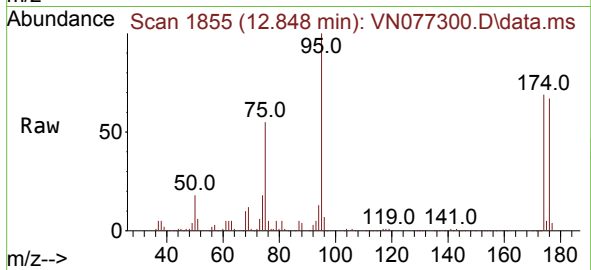
77 1.2 88.3 264.9#





#81
trans-1,4-Dichloro-2-butene
Concen: 64.081 ug/l
RT: 12.848 min Scan# 1837
Delta R.T. 0.106 min
Lab File: VN077300.D
Acq: 11 Apr 2023 13:23

Instrument :
MSVOA_N
ClientSampleId :
JPP-2-040723



Tgt Ion: 75 Resp: 227724
Ion Ratio Lower Upper
75 100
53 0.0 72.8 109.2#
89 0.0 37.4 56.2#

