

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052623\
 Data File : VN077948.D
 Acq On : 27 May 2023 01:39
 Operator : JC\MD
 Sample : 02953-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PNNL-RH-524-2

Quant Time: May 29 01:41:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

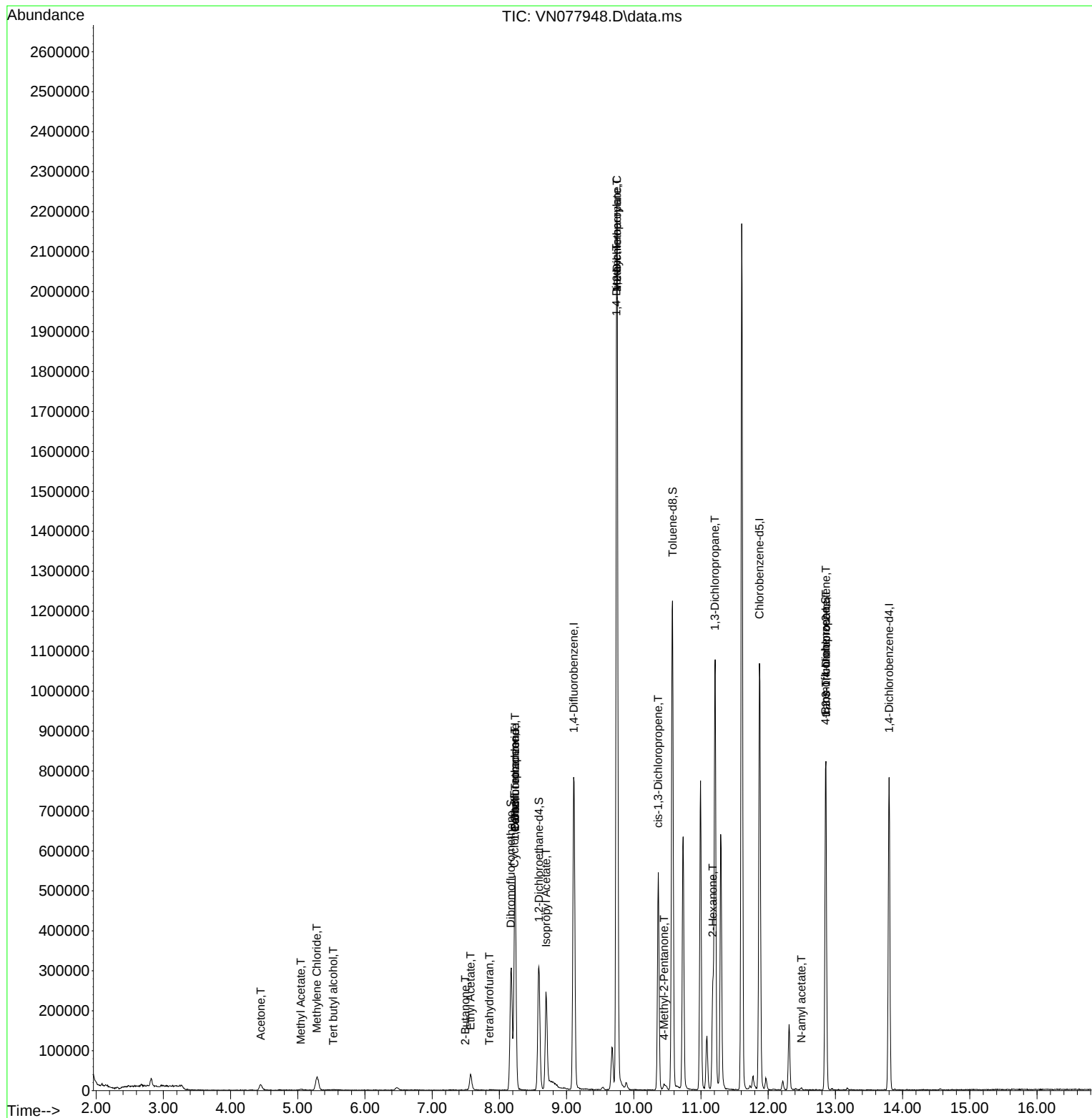
Internal Standards						
1) Pentafluorobenzene	8.235	168	379974	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	704915	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	645873	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	210001	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	262043	46.091	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.180%		
35) Dibromofluoromethane	8.171	113	223826	48.693	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.380%		
50) Toluene-d8	10.576	98	892237	50.429	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.860%		
62) 4-Bromofluorobenzene	12.853	95	293963	47.043	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.080%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	904	Below Cal	#	86
11) Tert butyl alcohol	5.530	59	194	0.247	ug/l #	72
13) Acrolein	4.189	56	60	Below Cal	#	16
16) Acetone	4.447	43	26999	15.094	ug/l	88
18) Methyl Acetate	5.047	43	4704	0.627	ug/l #	76
20) Methylene Chloride	5.283	84	27721	4.142	ug/l	91
25) 2-Butanone	7.494	43	2230	0.797	ug/l	96
29) Tetrahydrofuran	7.853	42	565	0.308	ug/l #	62
31) Cyclohexane	8.224	56	9668	1.251	ug/l #	50
36) 1,1-Dichloropropene	8.229	75	33944	5.049	ug/l #	49
37) Ethyl Acetate	7.571	43	54315	9.064	ug/l	98
38) Carbon Tetrachloride	8.235	117	41513	6.115	ug/l #	15
43) Isopropyl Acetate	8.694	43	277745	28.375	ug/l #	81
45) 1,2-Dichloropropane	9.747	63	2879	0.569	ug/l #	45
48) Methyl methacrylate	9.747	41	210726	45.407	ug/l #	28
49) 1,4-Dioxane	9.741	88	252	2.875	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	8639	1.485	ug/l	97
54) cis-1,3-Dichloropropene	10.365	75	100787	12.457	ug/l #	68
57) 1,3-Dichloropropane	11.206	76	12247	1.457	ug/l #	42
59) 2-Hexanone	11.176	43	205683	47.794	ug/l #	19
74) N-amyl acetate	12.494	43	2282	0.341	ug/l #	47
76) 1,2,3-Trichloropropane	12.859	75	158094	30.061	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	158094	96.089	ug/l #	15

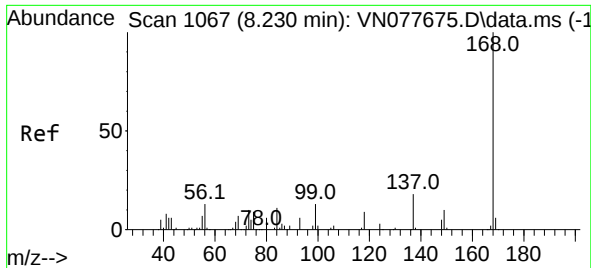
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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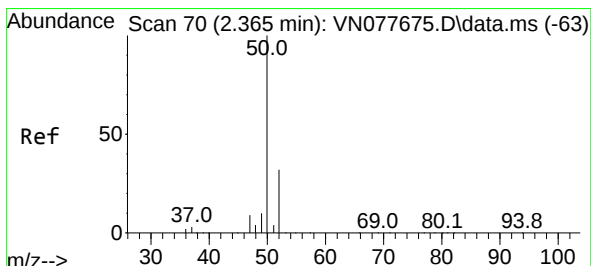
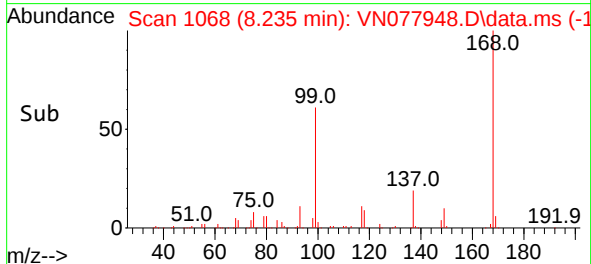
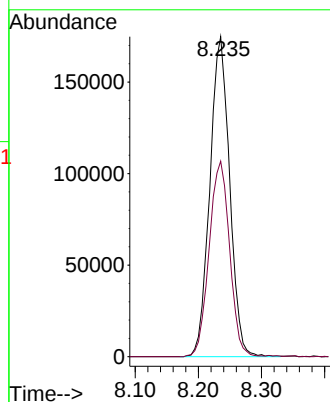
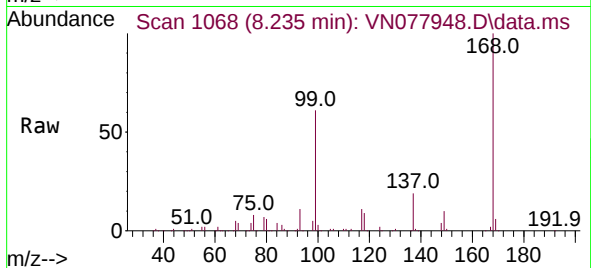




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

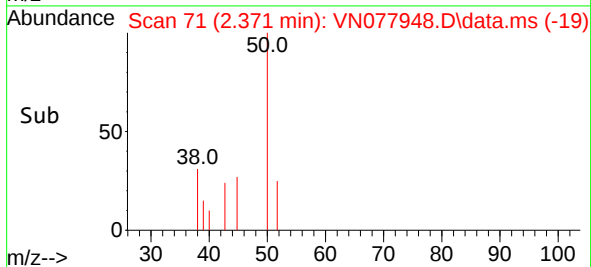
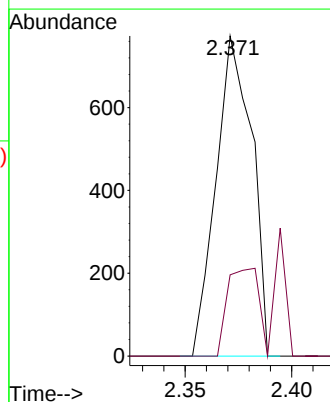
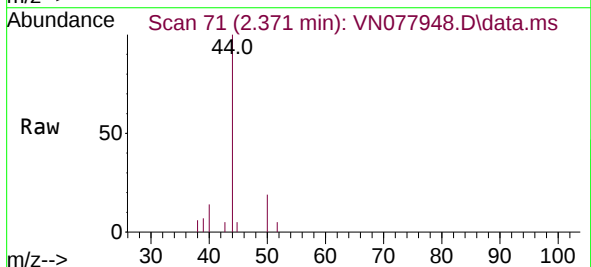
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-2

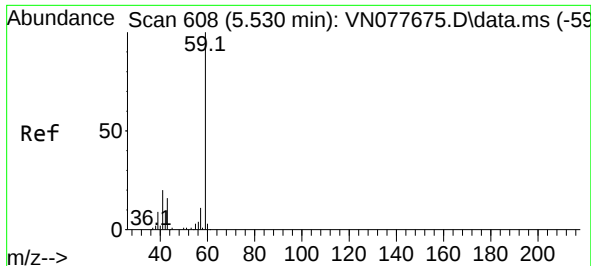
Tgt Ion:168 Resp: 379974
Ion Ratio Lower Upper
168 100
99 61.1 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

Tgt Ion: 50 Resp: 904
Ion Ratio Lower Upper
50 100
52 25.4 26.5 39.7#

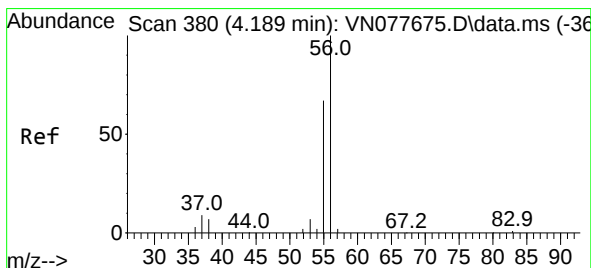
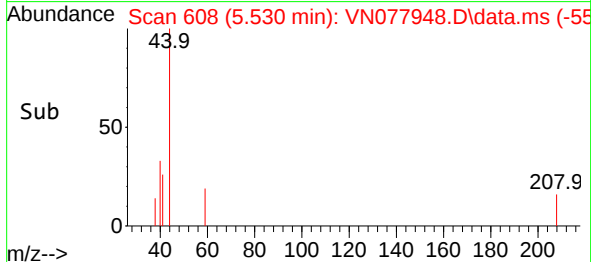
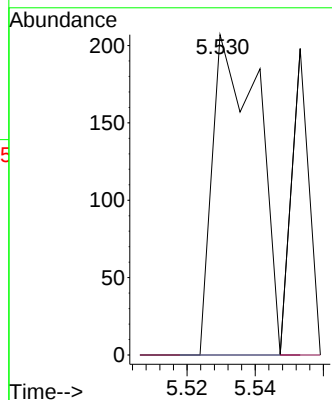
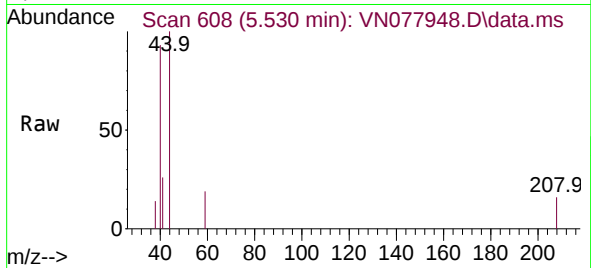




#11
Tert butyl alcohol
Concen: 0.247 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

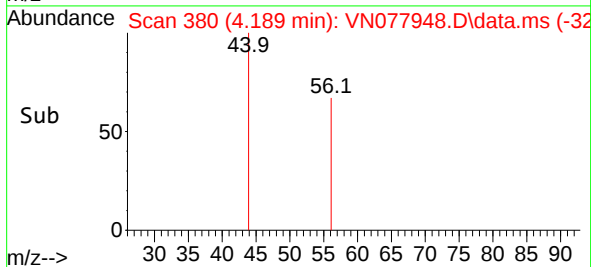
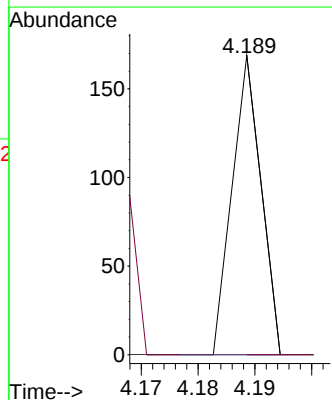
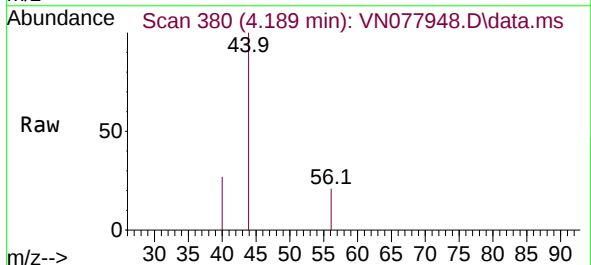
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-2

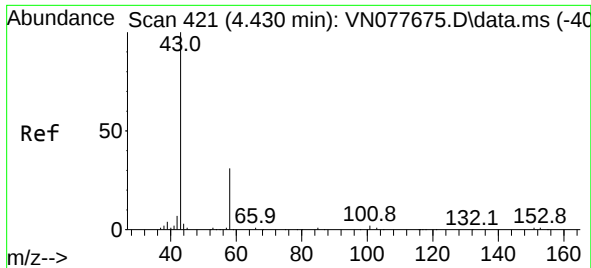
Tgt Ion: 59 Resp: 194
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 380
Delta R.T. -0.000 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

Tgt Ion: 56 Resp: 60
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#





#16

Acetone

Concen: 15.094 ug/l

RT: 4.447 min Scan# 43

Delta R.T. 0.017 min

Lab File: VN077948.D

Acq: 27 May 2023 01:39

Instrument :

MSVOA_N

ClientSampleId :

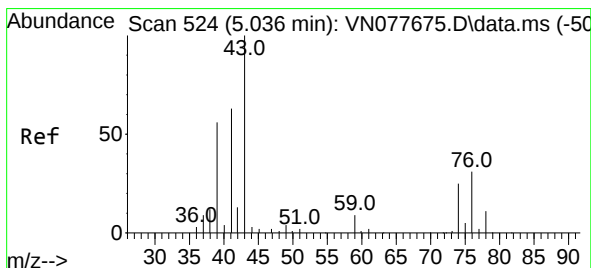
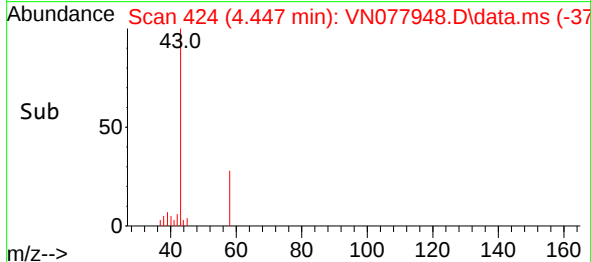
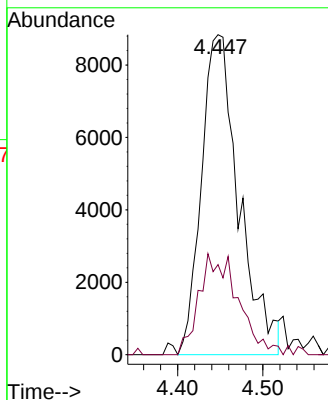
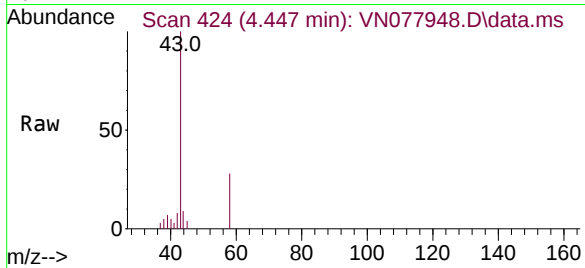
PNNL-RH-524-2

Tgt Ion: 43 Resp: 26999

Ion Ratio Lower Upper

43 100

58 28.2 28.0 42.0



#18

Methyl Acetate

Concen: 0.627 ug/l

RT: 5.047 min Scan# 526

Delta R.T. 0.011 min

Lab File: VN077948.D

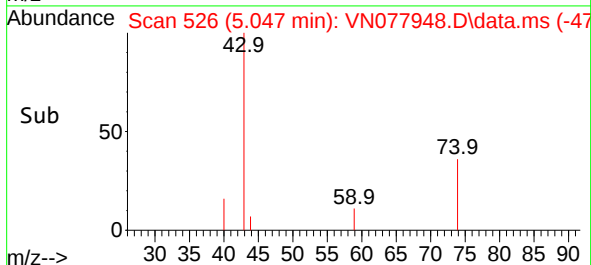
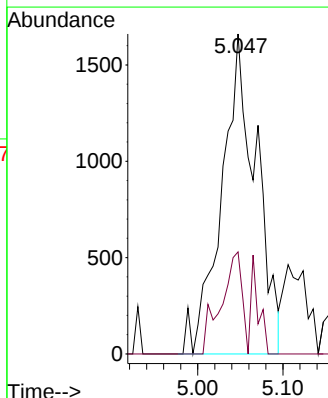
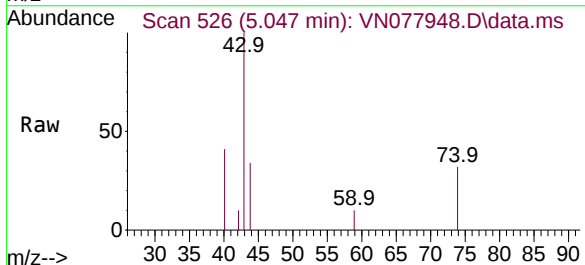
Acq: 27 May 2023 01:39

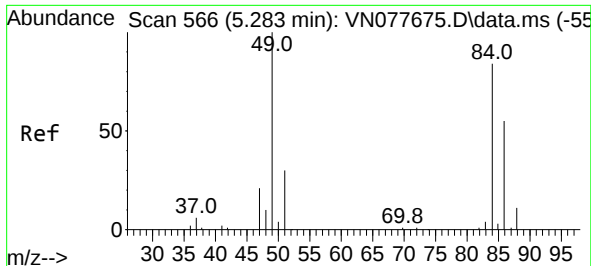
Tgt Ion: 43 Resp: 4704

Ion Ratio Lower Upper

43 100

74 19.3 26.2 39.4#

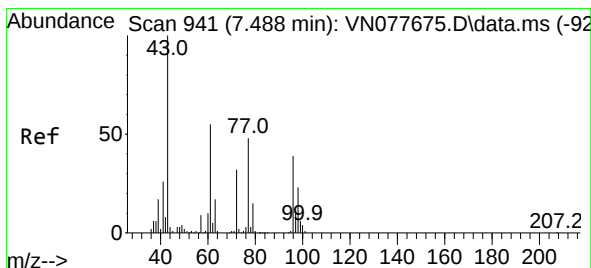
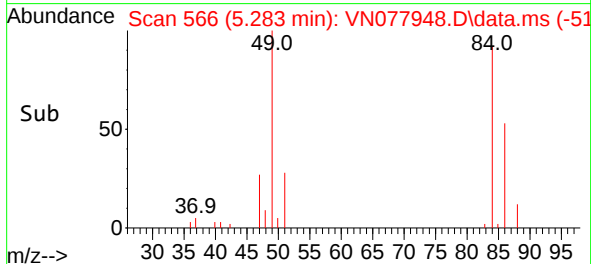
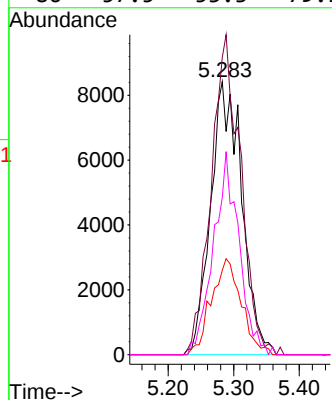
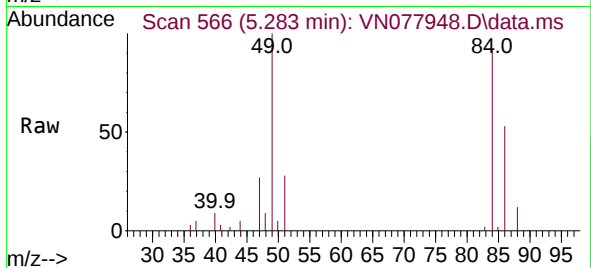




#20
Methylene Chloride
Concen: 4.142 ug/l
RT: 5.283 min Scan# 501
Delta R.T. -0.000 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

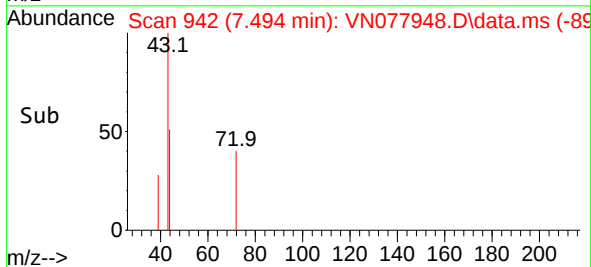
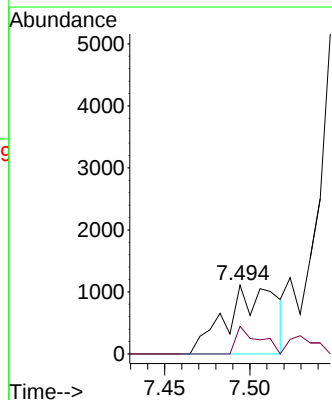
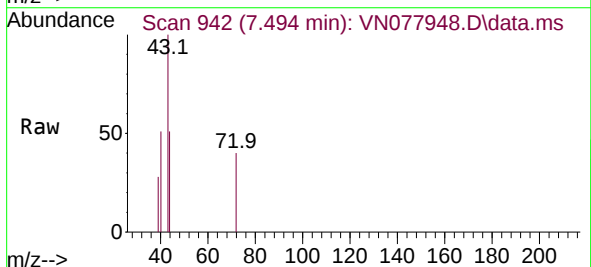
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-2

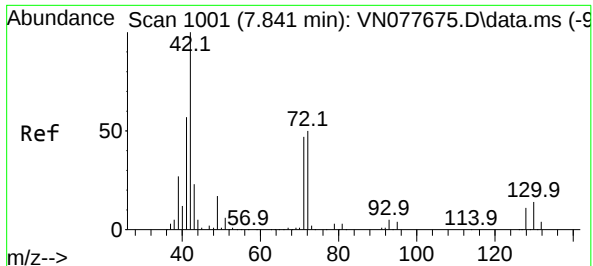
Tgt Ion:	84	Resp:	27721
Ion	Ratio	Lower	Upper
84	100		
49	108.9	79.7	119.5
51	30.9	25.2	37.8
86	57.5	53.3	79.9



#25
2-Butanone
Concen: 0.797 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

Tgt Ion:	43	Resp:	2230
Ion	Ratio	Lower	Upper
43	100		
72	40.3	30.2	45.2





#29

Tetrahydrofuran

Concen: 0.308 ug/l

RT: 7.853 min Scan# 1066

Delta R.T. 0.012 min

Lab File: VN077948.D

Acq: 27 May 2023 01:39

Instrument :

MSVOA_N

ClientSampleId :

PNNL-RH-524-2

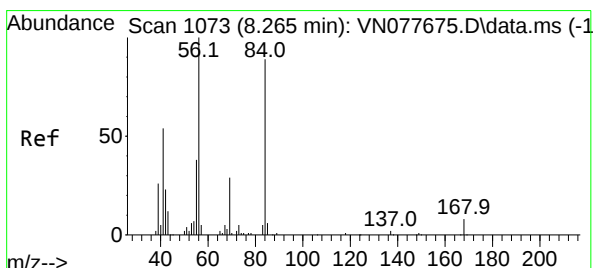
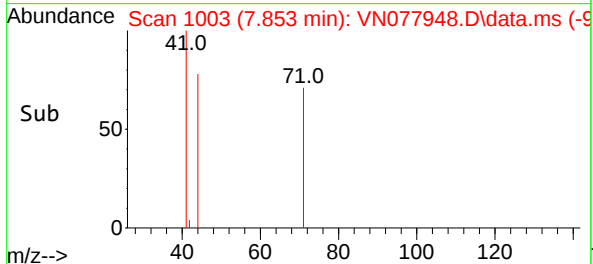
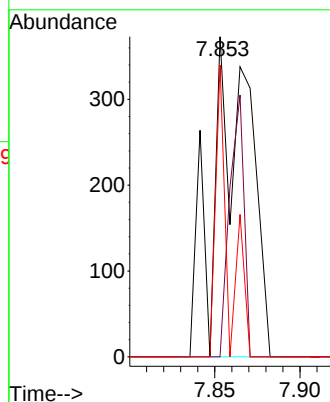
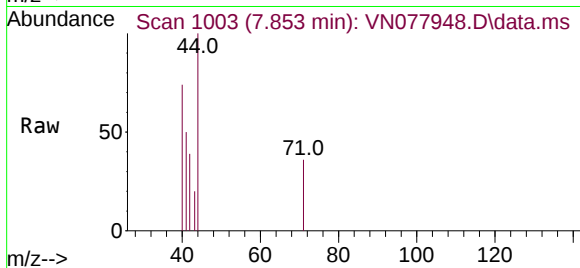
Tgt Ion: 42 Resp: 565

Ion Ratio Lower Upper

42 100

72 31.5 49.8 74.6#

71 31.7 47.4 71.2#



#31

Cyclohexane

Concen: 1.251 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN077948.D

Acq: 27 May 2023 01:39

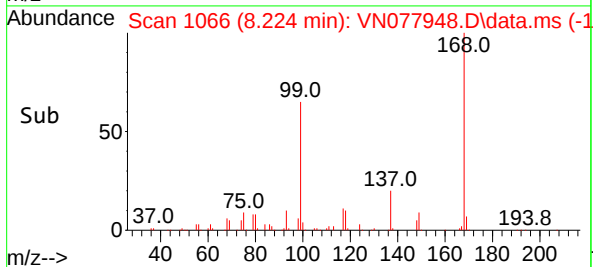
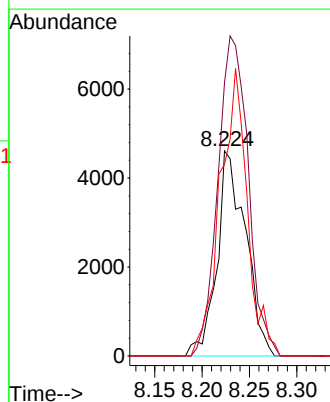
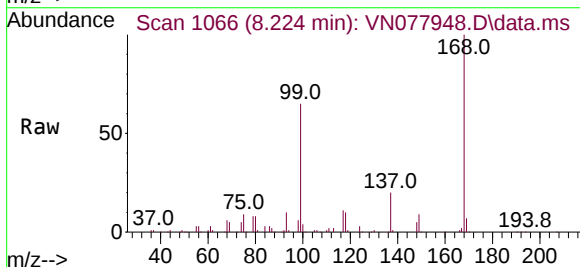
Tgt Ion: 56 Resp: 9668

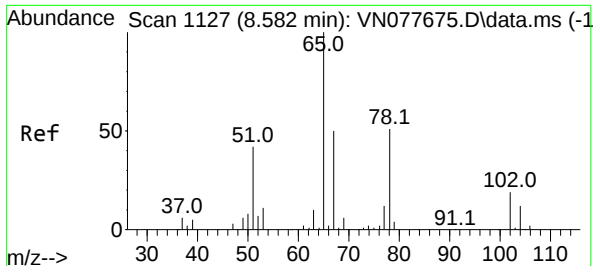
Ion Ratio Lower Upper

56 100

69 133.3 26.8 40.2#

84 93.3 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 46.091 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN077948.D

Acq: 27 May 2023 01:39

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MSVOA_N

ClientSampleId :

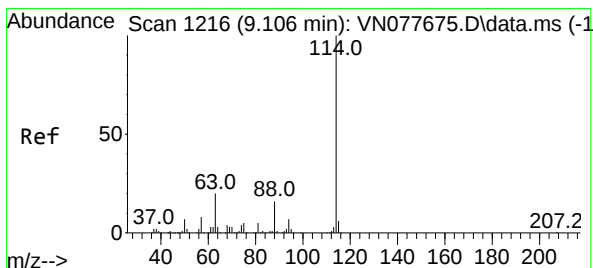
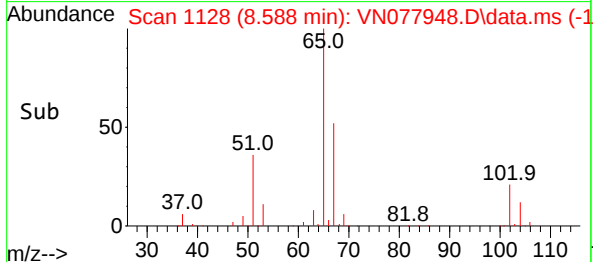
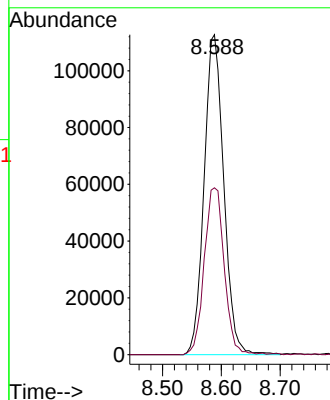
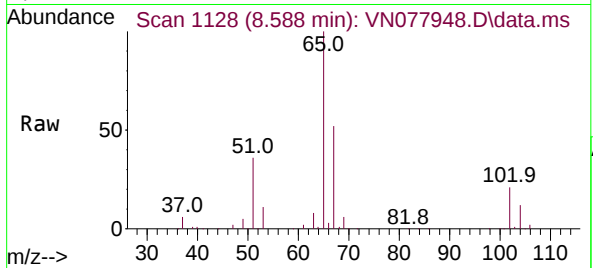
PNNL-RH-524-2

Tgt Ion: 65 Resp: 262043

Ion Ratio Lower Upper

65 100

67 53.0 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN077948.D

Acq: 27 May 2023 01:39

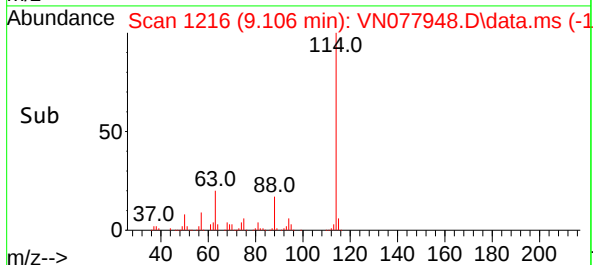
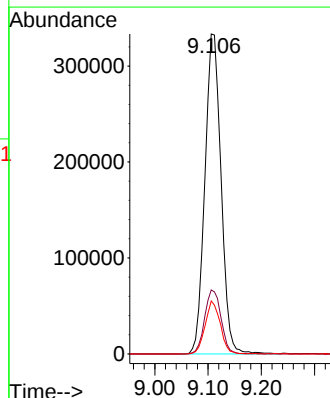
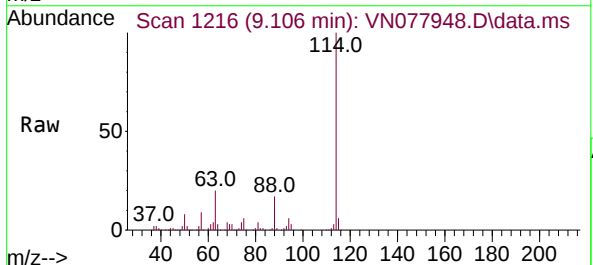
Tgt Ion: 114 Resp: 704915

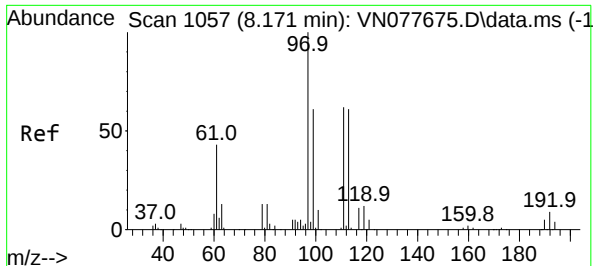
Ion Ratio Lower Upper

114 100

63 20.0 0.0 36.4

88 16.5 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.693 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN077948.D

Acq: 27 May 2023 01:39

Instrument :

MSVOA_N

ClientSampleId :

PNNL-RH-524-2

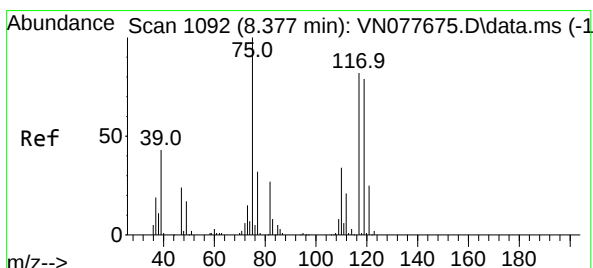
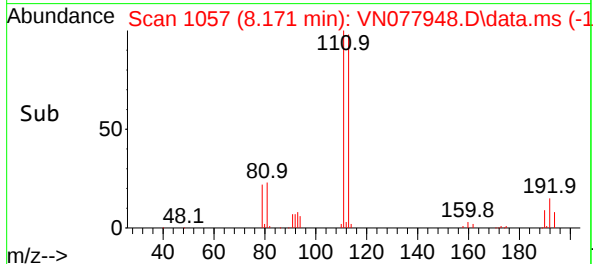
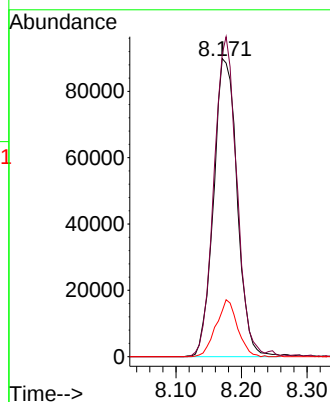
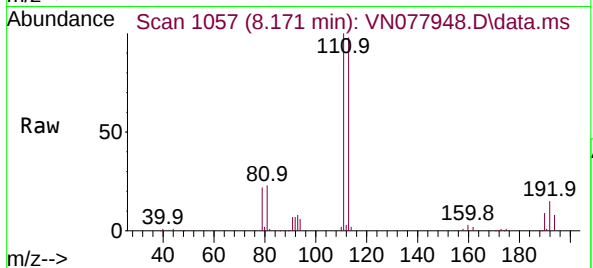
Tgt Ion:113 Resp: 223826

Ion Ratio Lower Upper

113 100

111 103.6 82.6 123.8

192 17.4 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.049 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.148 min

Lab File: VN077948.D

Acq: 27 May 2023 01:39

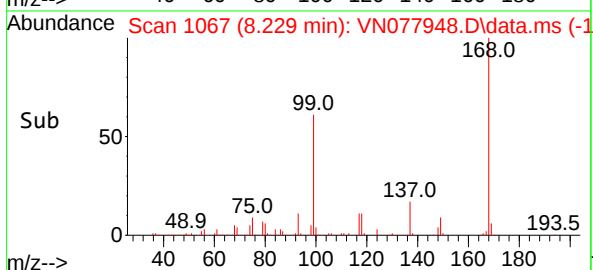
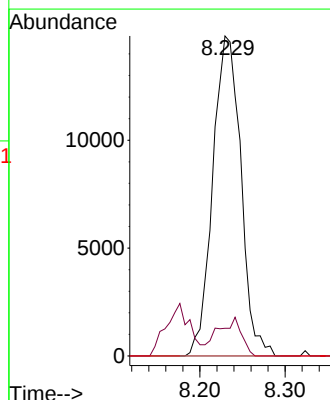
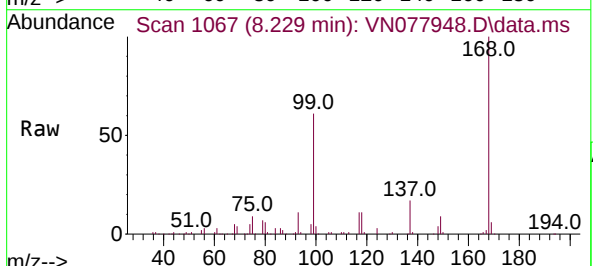
Tgt Ion: 75 Resp: 33944

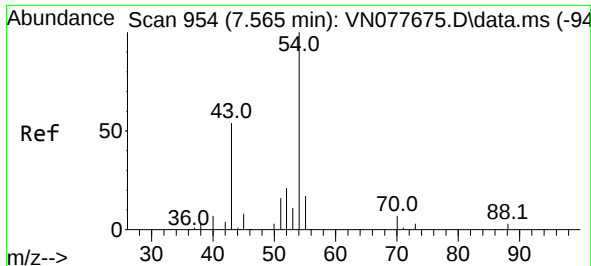
Ion Ratio Lower Upper

75 100

110 10.6 19.1 57.3#

77 0.0 25.0 37.4#

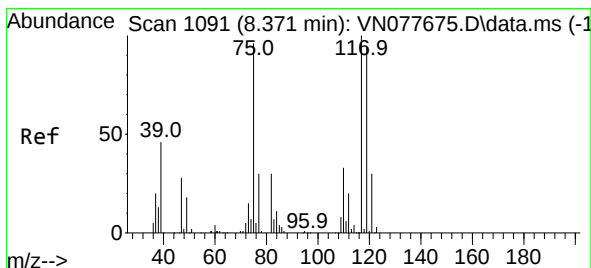
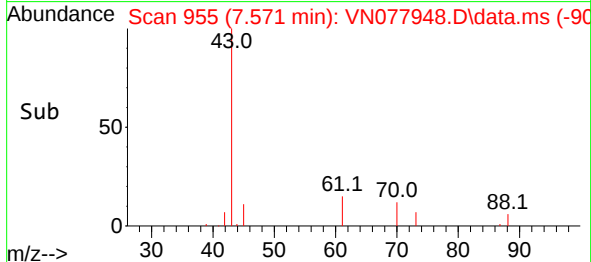
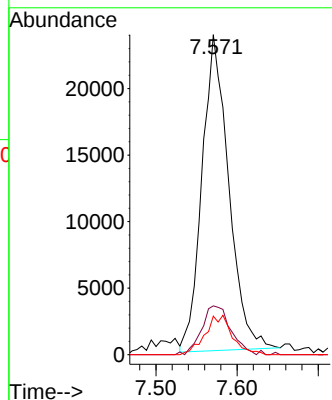
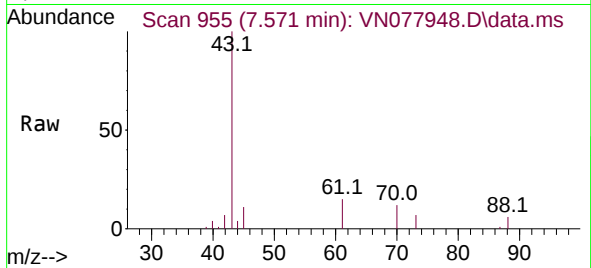




#37
Ethyl Acetate
Concen: 9.064 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

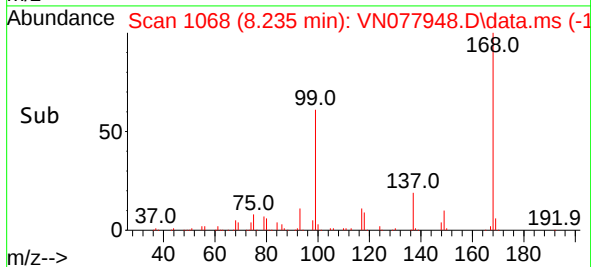
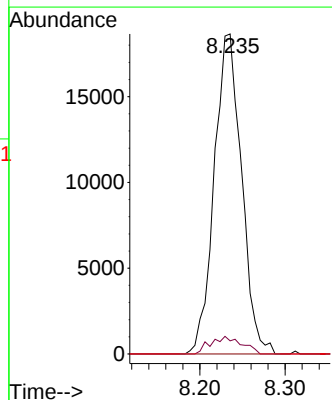
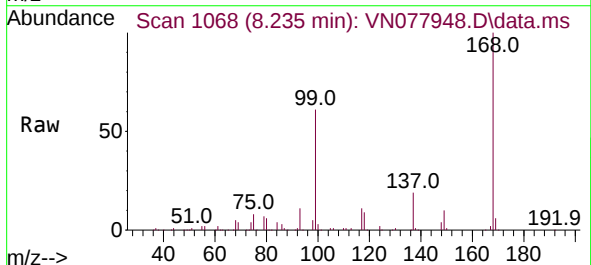
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-2

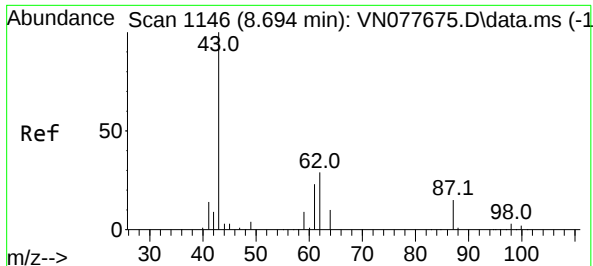
Tgt Ion: 43 Resp: 54315
Ion Ratio Lower Upper
43 100
61 16.8 13.2 19.8
70 12.6 11.3 16.9



#38
Carbon Tetrachloride
Concen: 6.115 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.136 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

Tgt Ion: 117 Resp: 41513
Ion Ratio Lower Upper
117 100
119 4.1 77.3 115.9#
121 0.0 23.3 34.9#





#43

Isopropyl Acetate

Concen: 28.375 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN077948.D

Acq: 27 May 2023 01:39

Instrument :

MSVOA_N

ClientSampleId :

PNNL-RH-524-2

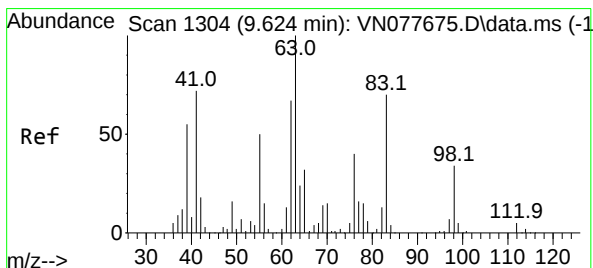
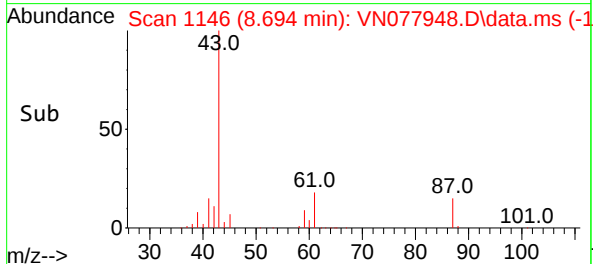
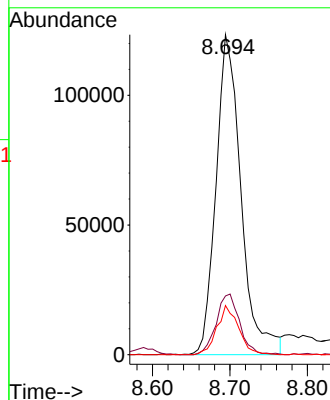
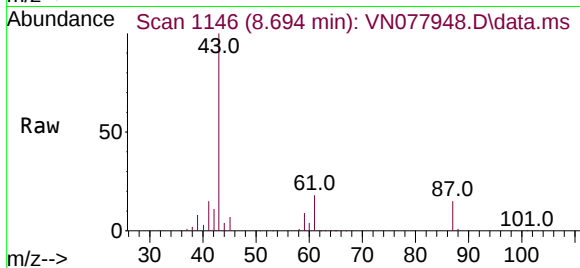
Tgt Ion: 43 Resp: 277745

Ion Ratio Lower Upper

43 100

61 17.7 24.7 37.1#

87 13.3 14.6 21.8#



#45

1,2-Dichloropropane

Concen: 0.569 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.123 min

Lab File: VN077948.D

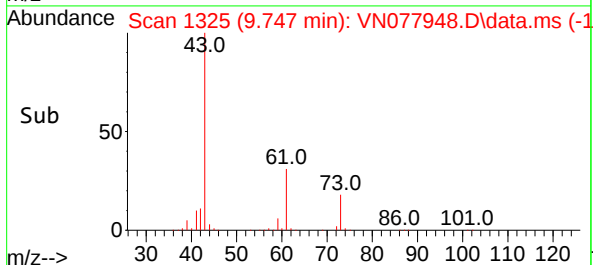
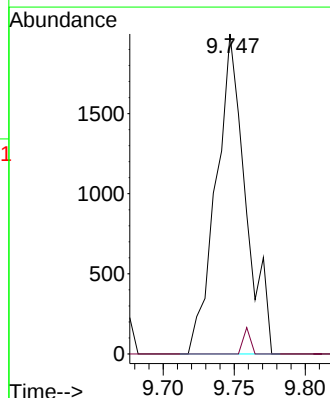
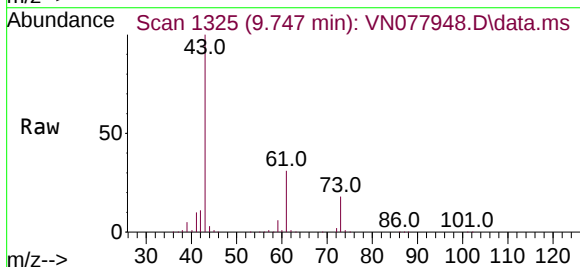
Acq: 27 May 2023 01:39

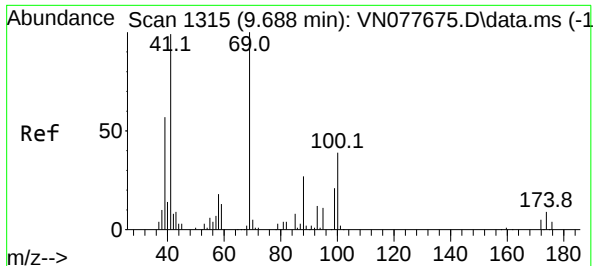
Tgt Ion: 63 Resp: 2879

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 45.407 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.059 min

Lab File: VN077948.D

Acq: 27 May 2023 01:39

Instrument :

MSVOA_N

ClientSampleId :

PNNL-RH-524-2

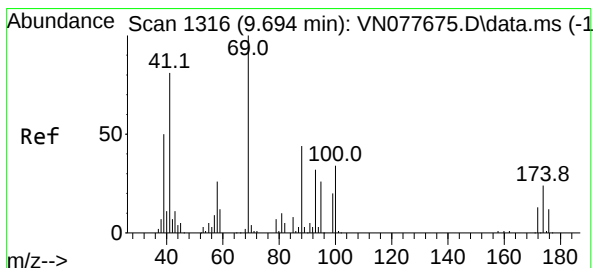
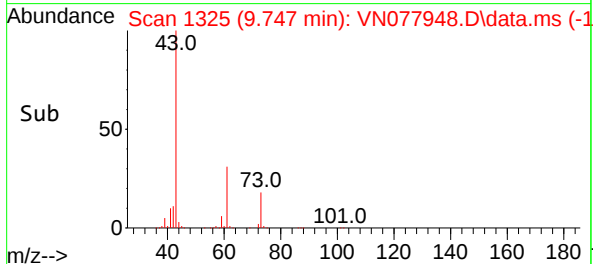
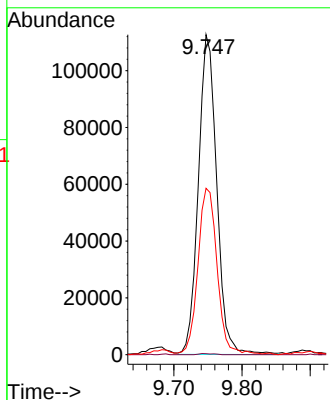
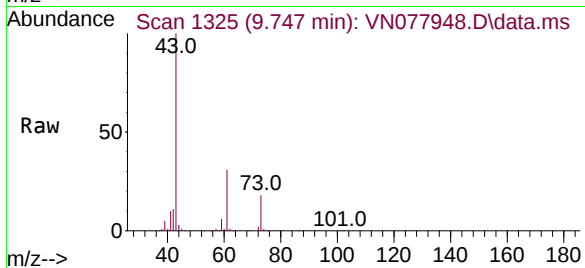
Tgt Ion: 41 Resp: 210726

Ion Ratio Lower Upper

41 100

69 0.3 90.4 135.6#

39 54.5 54.6 81.8#



#49

1,4-Dioxane

Concen: 2.875 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.047 min

Lab File: VN077948.D

Acq: 27 May 2023 01:39

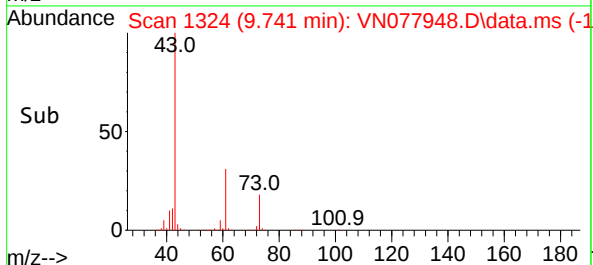
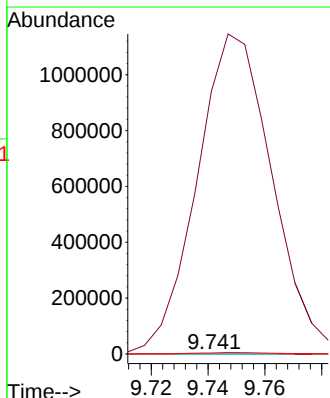
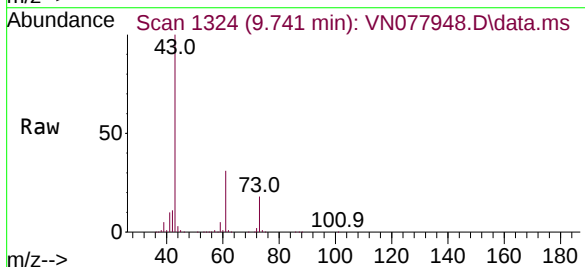
Tgt Ion: 88 Resp: 252

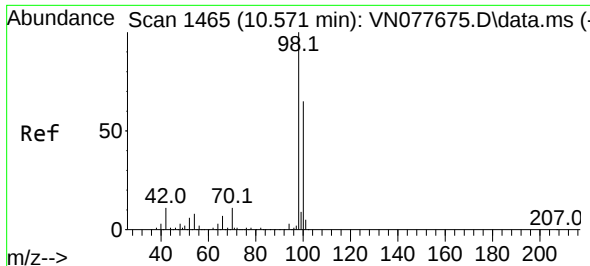
Ion Ratio Lower Upper

88 100

43 848830.6 17.0 25.6#

58 3762.7 47.0 70.4#

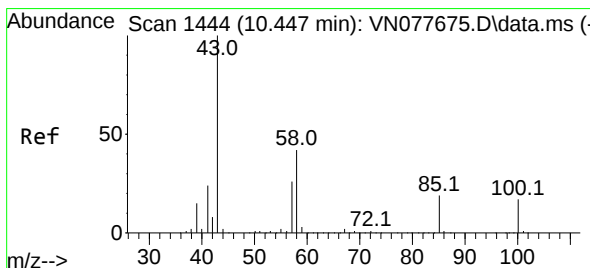
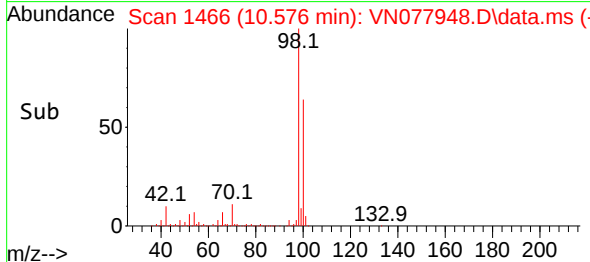
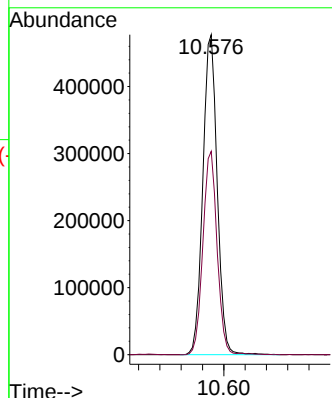
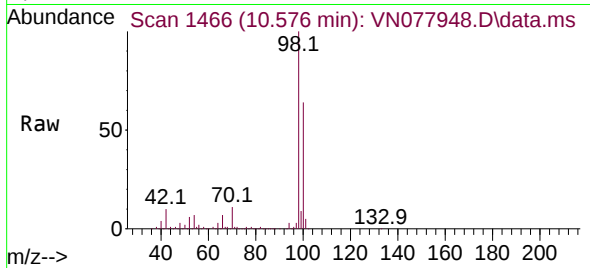




#50
Toluene-d8
Concen: 50.429 ug/l
RT: 10.576 min Scan# 1465
Delta R.T. 0.005 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

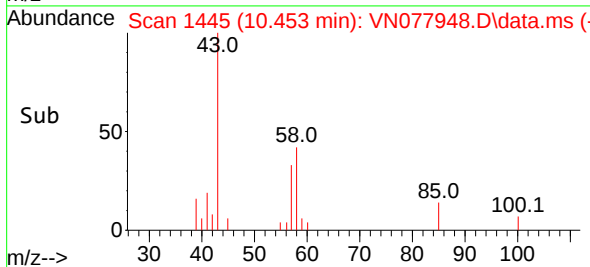
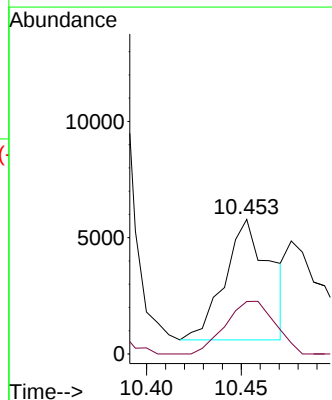
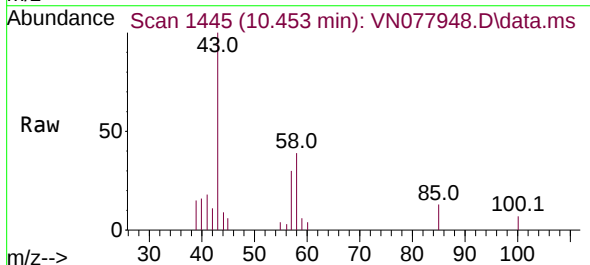
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-2

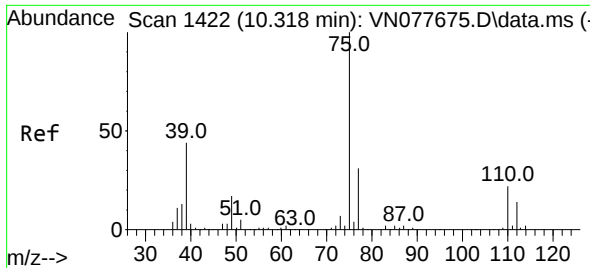
Tgt Ion: 98 Resp: 892237
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.485 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

Tgt Ion: 43 Resp: 8639
Ion Ratio Lower Upper
43 100
58 47.7 36.6 54.8

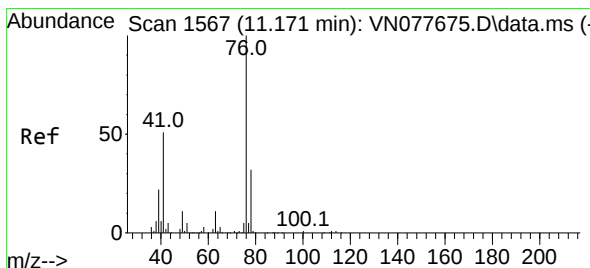
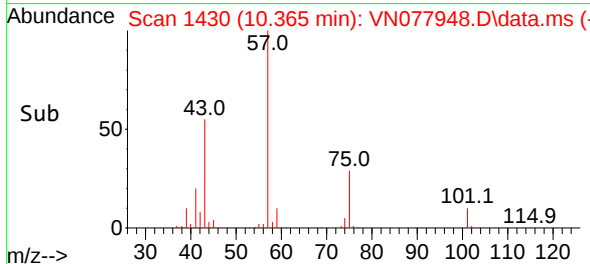
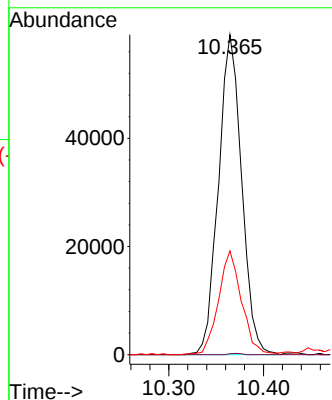
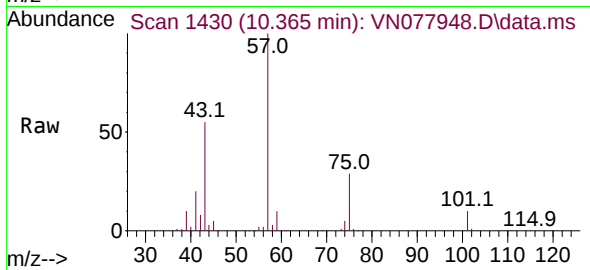




#54
cis-1,3-Dichloropropene
Concen: 12.457 ug/l
RT: 10.365 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

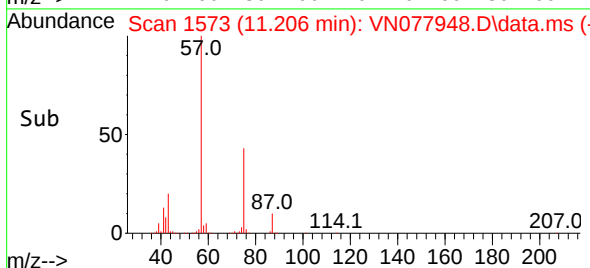
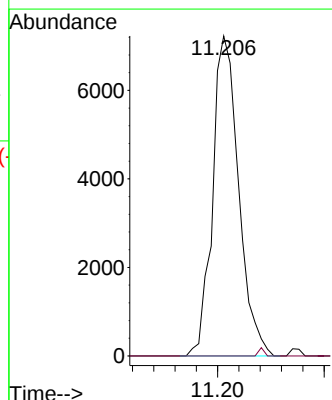
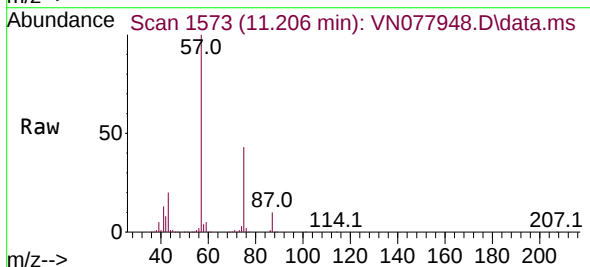
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-2

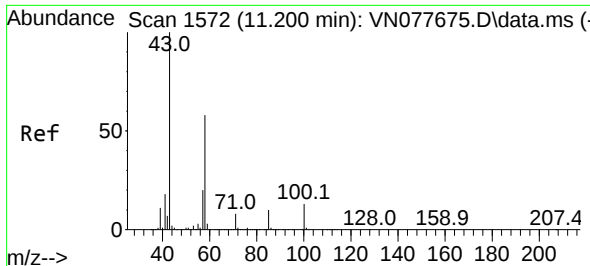
Tgt Ion: 75 Resp: 100787
Ion Ratio Lower Upper
75 100
77 0.3 26.1 39.1#
39 32.4 31.6 47.4



#57
1,3-Dichloropropane
Concen: 1.457 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

Tgt Ion: 76 Resp: 12247
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

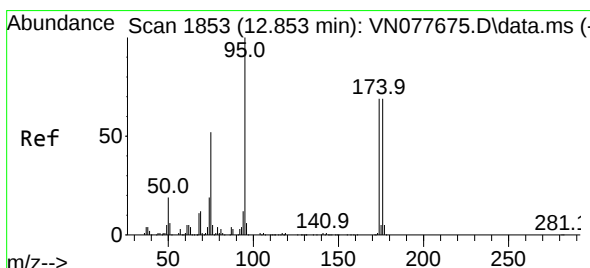
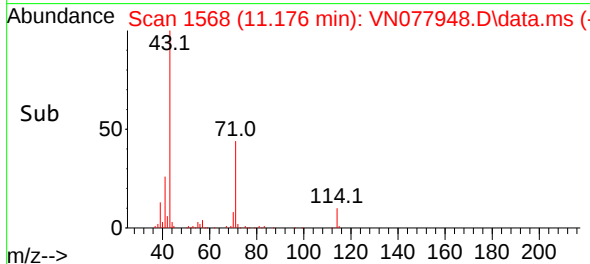
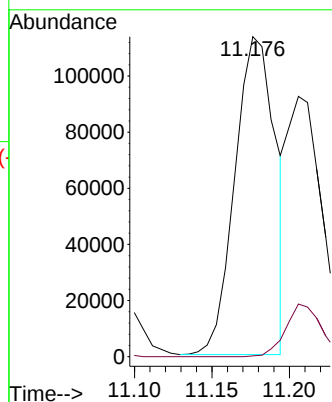
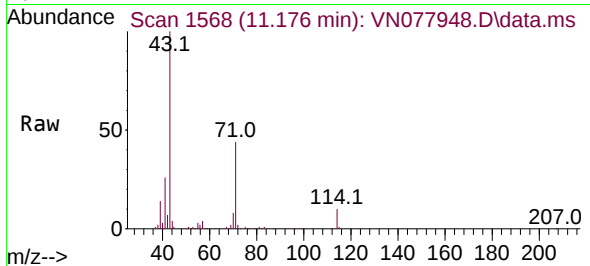




#59
2-Hexanone
Concen: 47.794 ug/l
RT: 11.176 min Scan# 11176
Delta R.T. -0.024 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

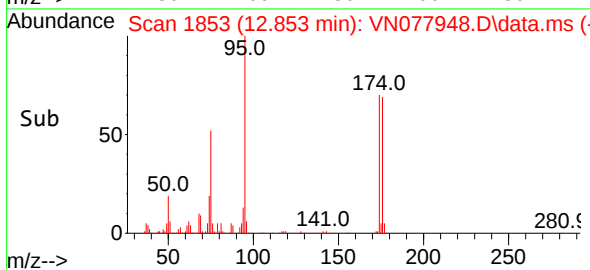
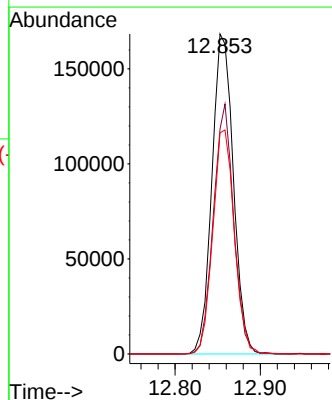
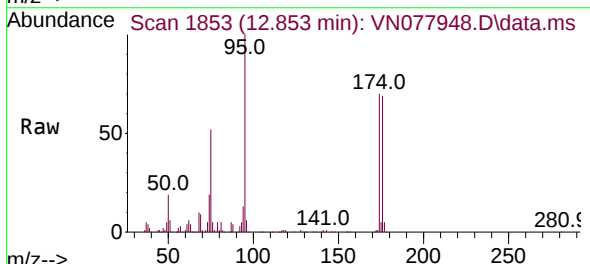
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-2

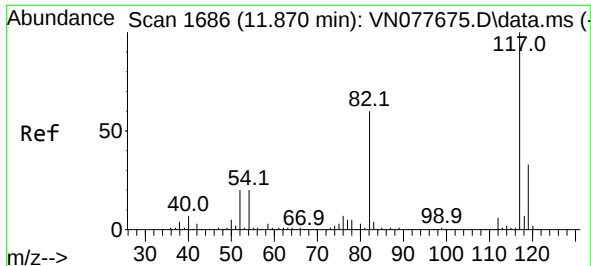
Tgt Ion: 43 Resp: 205683
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.043 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

Tgt Ion: 95 Resp: 293963
Ion Ratio Lower Upper
95 100
174 74.2 0.0 143.8
176 70.2 0.0 135.8

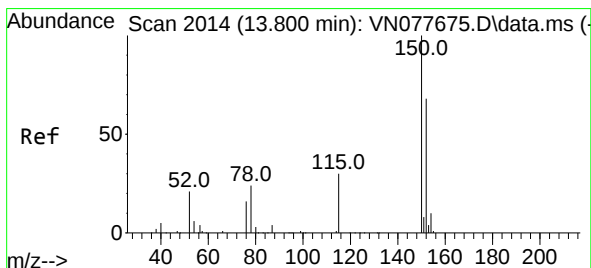
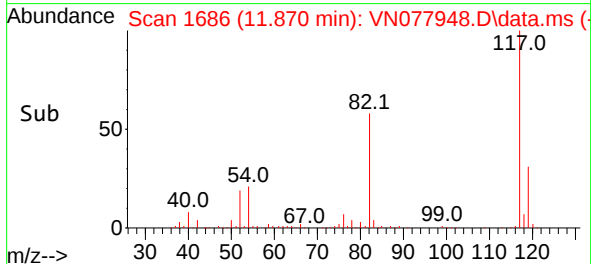
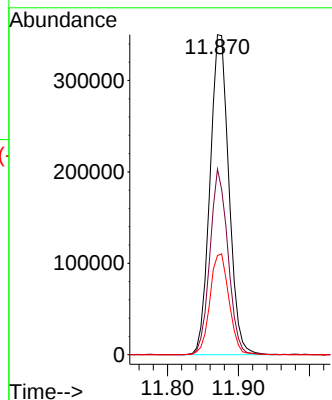
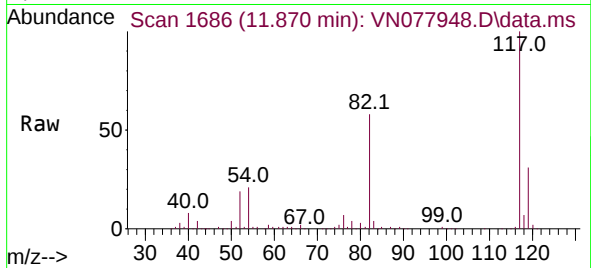




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

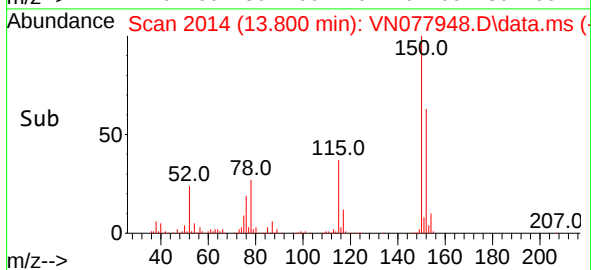
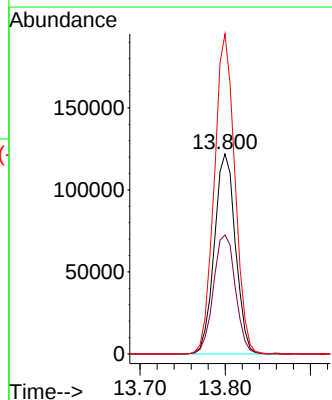
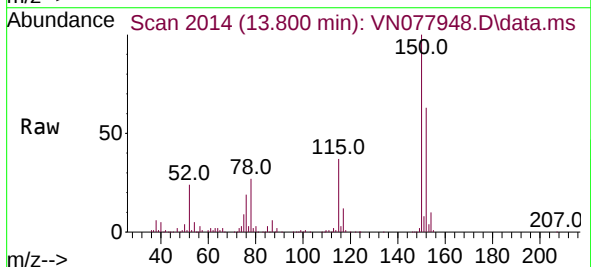
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-2

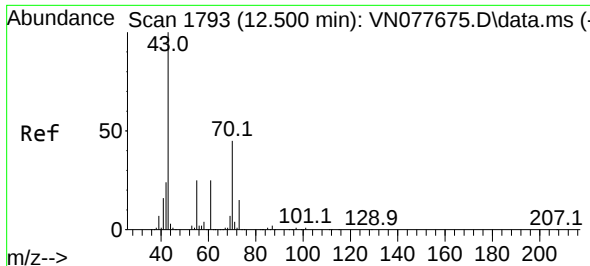
Tgt Ion:117 Resp: 645873
Ion Ratio Lower Upper
117 100
82 58.0 44.0 66.0
119 31.0 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

Tgt Ion:152 Resp: 210001
Ion Ratio Lower Upper
152 100
115 62.0 32.3 96.8
150 156.3 0.0 355.8

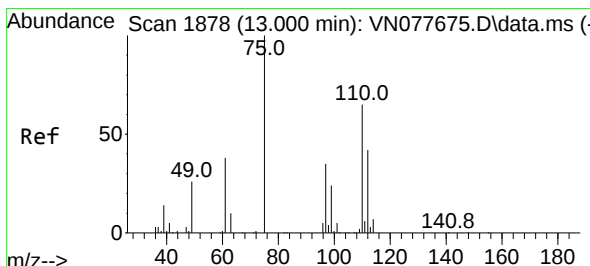
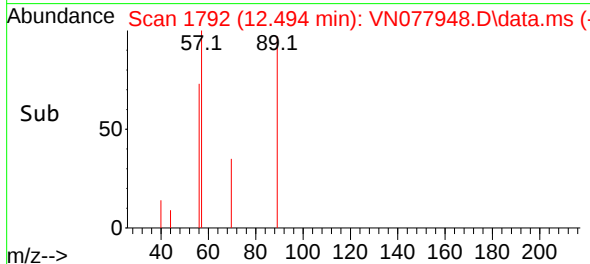
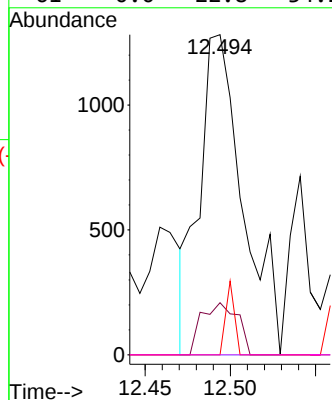
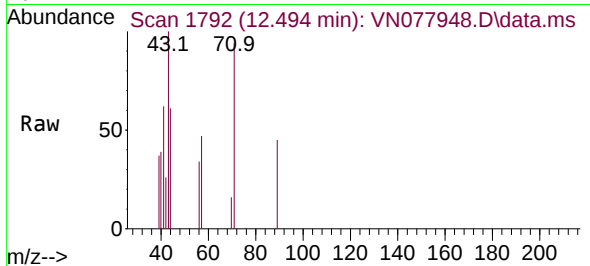




#74
N-amy1 acetate
Concen: 0.341 ug/l
RT: 12.494 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

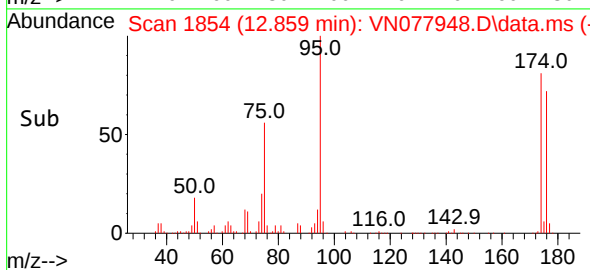
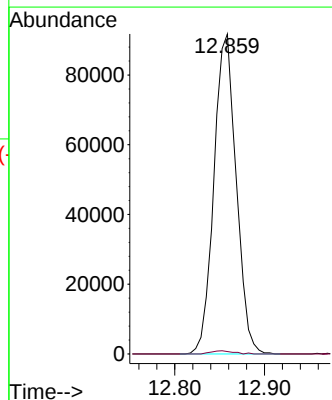
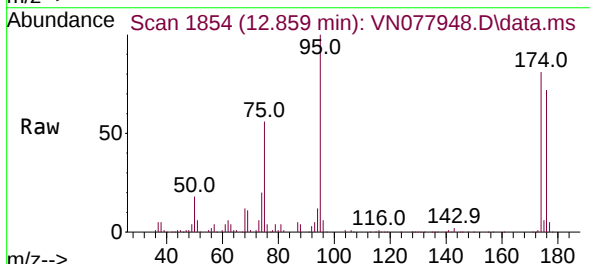
Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-2

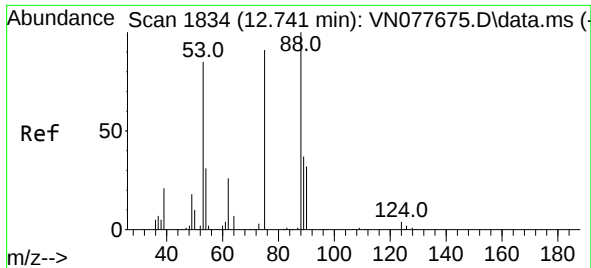
Tgt Ion: 43	Resp: 2282
Ion Ratio	Lower Upper
43 100	
70 13.4	43.4 65.2#
55 4.6	21.4 32.0#
61 0.0	22.8 34.2#



#76
1,2,3-Trichloropropane
Concen: 30.061 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

Tgt Ion: 75	Resp: 158094
Ion Ratio	Lower Upper
75 100	
77 1.0	84.5 253.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 96.089 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN077948.D
Acq: 27 May 2023 01:39

Instrument :
MSVOA_N
ClientSampleId :
PNNL-RH-524-2

Tgt Ion: 75 Resp: 158094
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#

