

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052623\
 Data File : VN077925.D
 Acq On : 26 May 2023 14:17
 Operator : JC\MD
 Sample : 02924-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001-002-003-2

Quant Time: May 29 00:28:47 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)

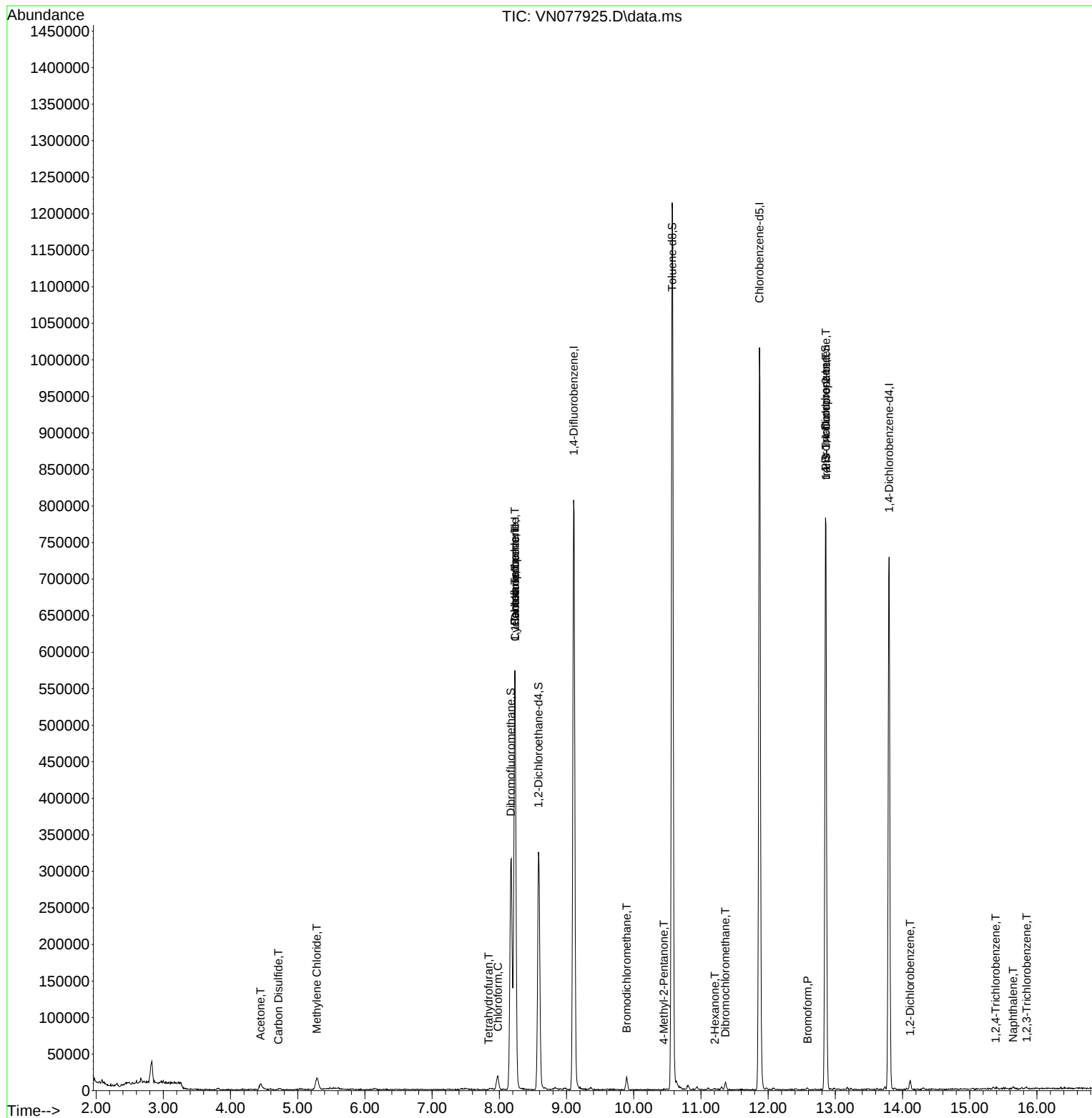
Internal Standards						
1) Pentafluorobenzene	8.230	168	408800	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	725882	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	622405	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	196311	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	270762	44.266	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.540%		
35) Dibromofluoromethane	8.171	113	233186	49.264	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.520%		
50) Toluene-d8	10.571	98	893488	49.041	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.080%		
62) 4-Bromofluorobenzene	12.853	95	286064	44.457	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	88.920%		
Target Compounds						
3) Chloromethane	2.377	50	1317	Below Cal		92
13) Acrolein	4.207	56	271	Below Cal	#	74
16) Acetone	4.448	43	13768	7.154	ug/l	95
17) Carbon Disulfide	4.713	76	2328	0.201	ug/l	# 75
20) Methylene Chloride	5.283	84	13420	0.732	ug/l	# 93
29) Tetrahydrofuran	7.842	42	504	0.256	ug/l	# 48
30) Chloroform	7.977	83	18380	1.842	ug/l	88
31) Cyclohexane	8.236	56	9247	1.112	ug/l	# 38
36) 1,1-Dichloropropene	8.236	75	34036	4.916	ug/l	# 49
38) Carbon Tetrachloride	8.230	117	44866	6.418	ug/l	# 15
47) Bromodichloromethane	9.895	83	10197	1.428	ug/l	93
51) 4-Methyl-2-Pentanone	10.447	43	1281	0.214	ug/l	# 31
59) 2-Hexanone	11.206	43	1091	0.246	ug/l	# 41
60) Dibromochloromethane	11.365	129	5872	1.126	ug/l	89
71) Bromoform	12.588	173	802	0.258	ug/l	# 82
76) 1,2,3-Trichloropropane	12.859	75	151561	30.828	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.859	75	151561	98.543	ug/l	# 15
91) 1,2-Dichlorobenzene	14.112	146	5443	0.816	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	971	0.249	ug/l	# 17
95) Naphthalene	15.647	128	3018	0.225	ug/l	# 80
96) 1,2,3-Trichlorobenzene	15.847	180	819	0.215	ug/l	# 53

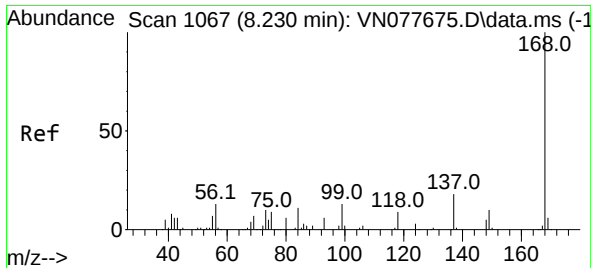
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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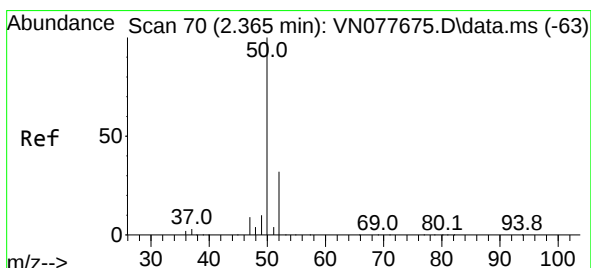
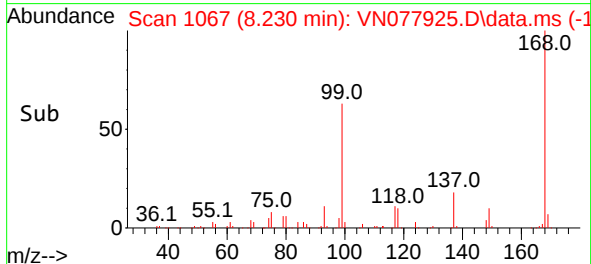
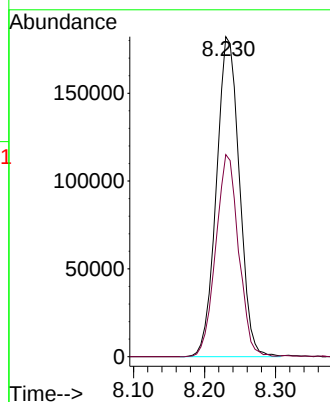
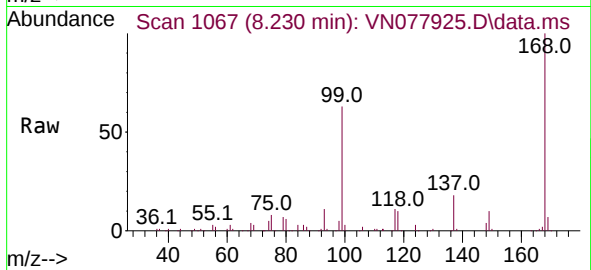




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

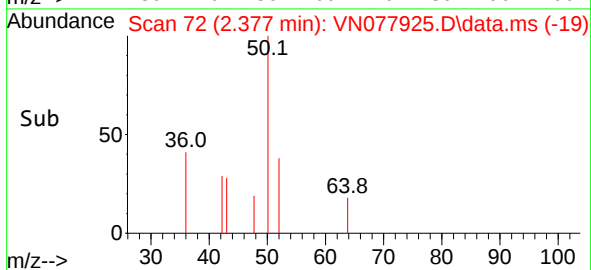
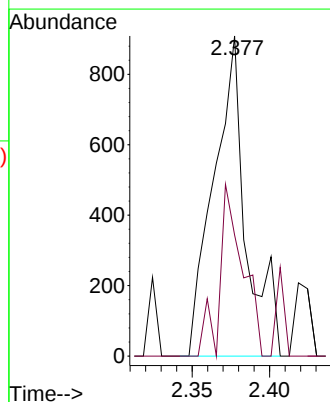
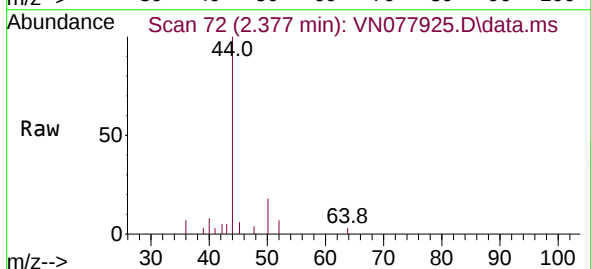
Instrument :
MSVOA_N
ClientSampleId :
001-002-003-2

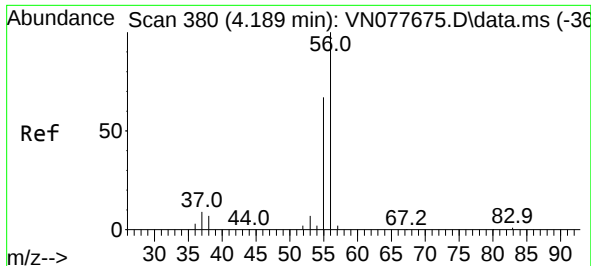
Tgt Ion:168 Resp: 408800
Ion Ratio Lower Upper
168 100
99 63.1 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.012 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

Tgt Ion: 50 Resp: 1317
Ion Ratio Lower Upper
50 100
52 37.8 26.5 39.7





#13

Acrolein

Concen: Below Cal

RT: 4.207 min Scan# 380

Delta R.T. 0.018 min

Lab File: VN077925.D

Acq: 26 May 2023 14:17

Instrument :

MSVOA_N

ClientSampleId :

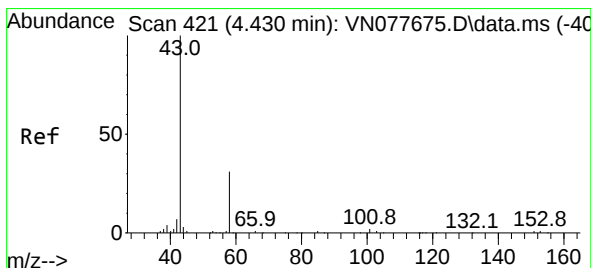
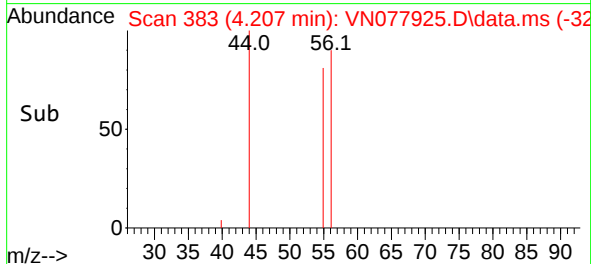
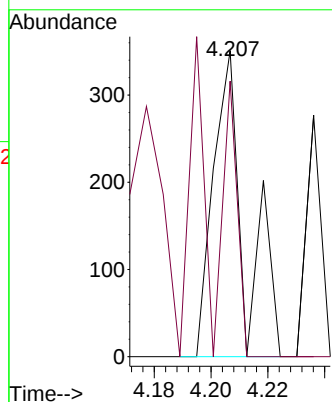
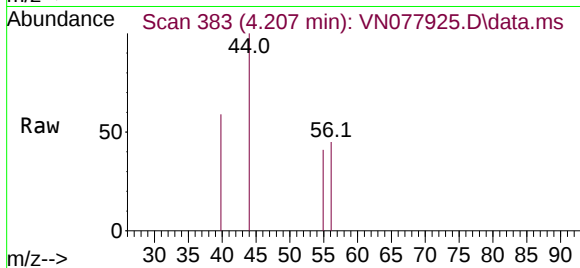
001-002-003-2

Tgt Ion: 56 Resp: 271

Ion Ratio Lower Upper

56 100

55 88.9 54.5 81.7#



#16

Acetone

Concen: 7.154 ug/l

RT: 4.448 min Scan# 424

Delta R.T. 0.018 min

Lab File: VN077925.D

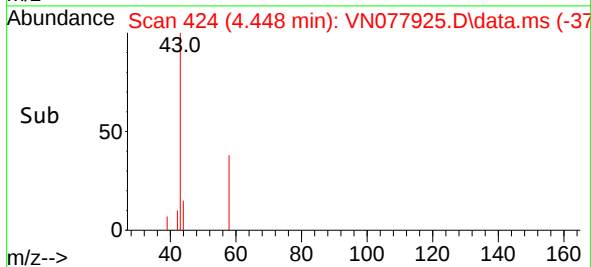
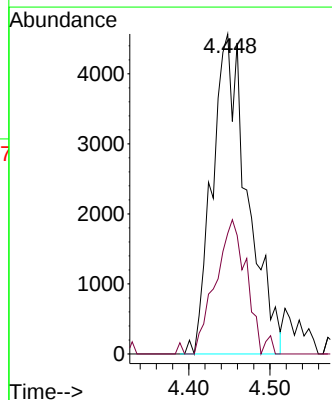
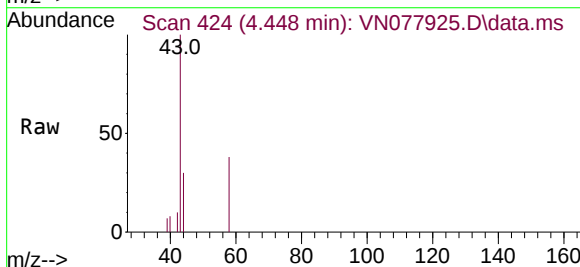
Acq: 26 May 2023 14:17

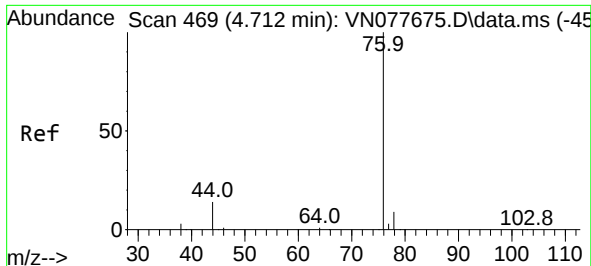
Tgt Ion: 43 Resp: 13768

Ion Ratio Lower Upper

43 100

58 37.6 28.0 42.0

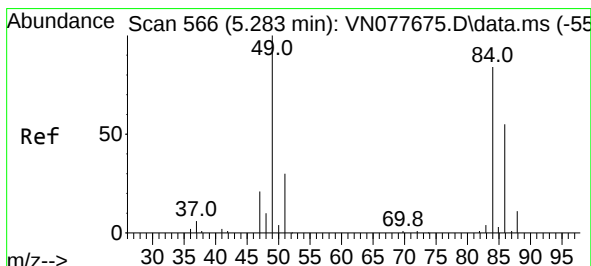
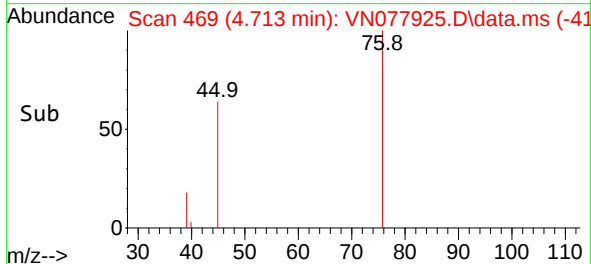
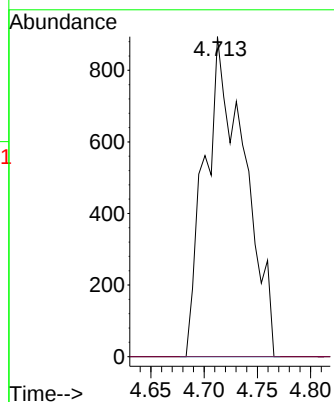
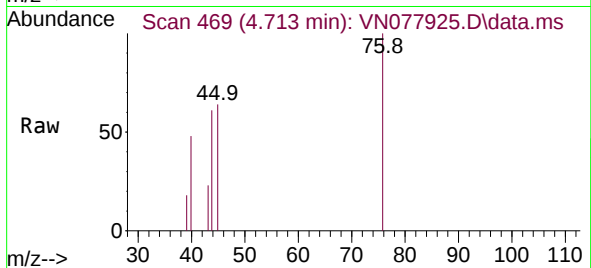




#17
Carbon Disulfide
Concen: 0.201 ug/l
RT: 4.713 min Scan# 469
Delta R.T. 0.001 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

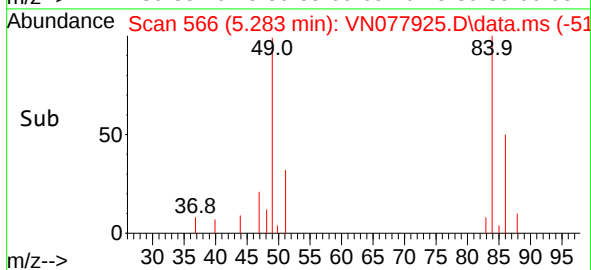
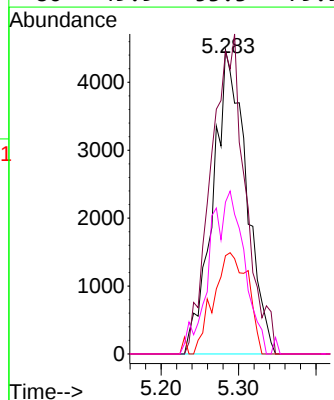
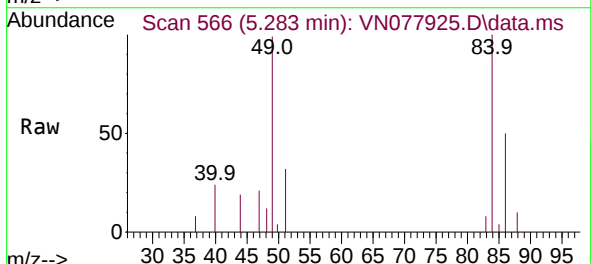
Instrument :
MSVOA_N
ClientSampleId :
001-002-003-2

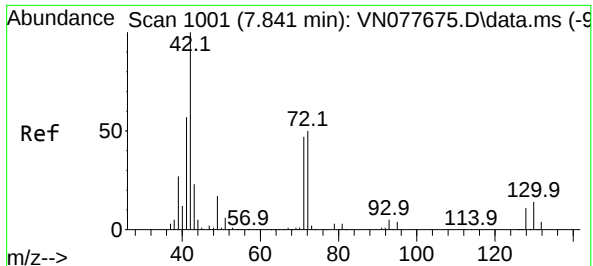
Tgt Ion: 76 Resp: 2328
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#20
Methylene Chloride
Concen: 0.732 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.000 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

Tgt Ion: 84 Resp: 13420
Ion Ratio Lower Upper
84 100
49 99.5 79.7 119.5
51 32.3 25.2 37.8
86 49.9 53.3 79.9#





#29

Tetrahydrofuran

Concen: 0.256 ug/l

RT: 7.842 min Scan# 1001

Delta R.T. 0.001 min

Lab File: VN077925.D

Acq: 26 May 2023 14:17

Instrument :

MSVOA_N

ClientSampleId :

001-002-003-2

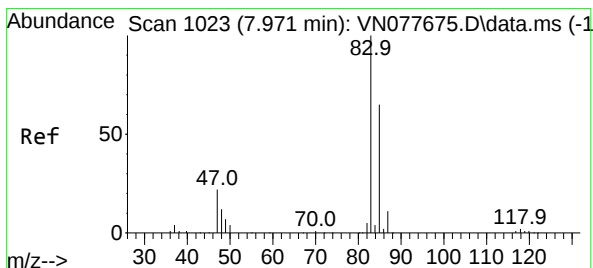
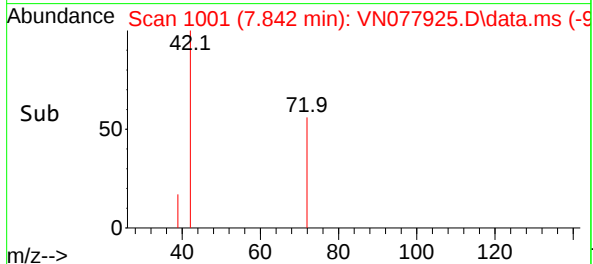
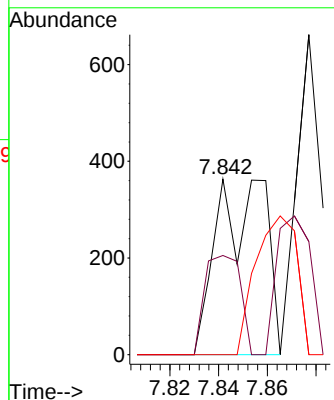
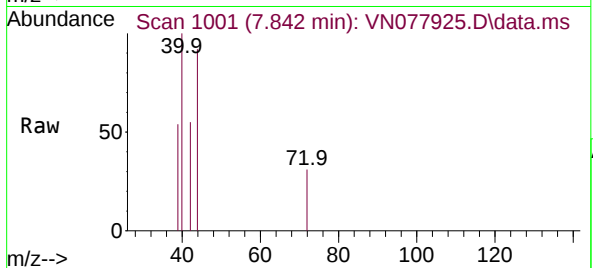
Tgt Ion: 42 Resp: 504

Ion Ratio Lower Upper

42 100

72 41.5 49.8 74.6#

71 0.0 47.4 71.2#



#30

Chloroform

Concen: 1.842 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. 0.006 min

Lab File: VN077925.D

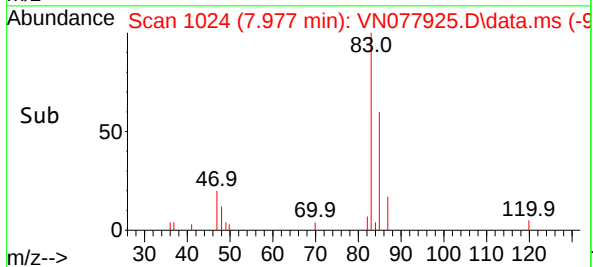
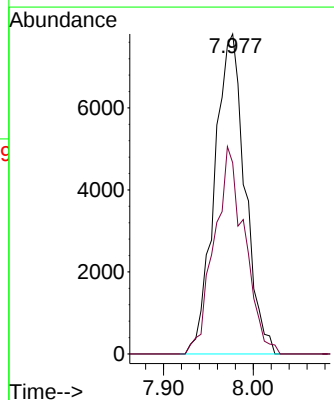
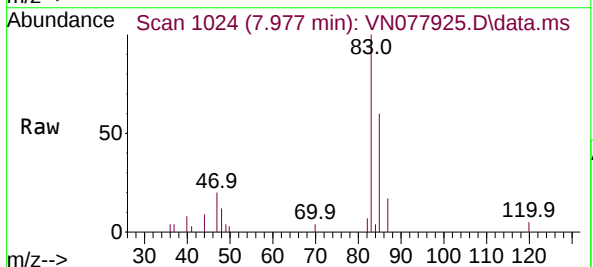
Acq: 26 May 2023 14:17

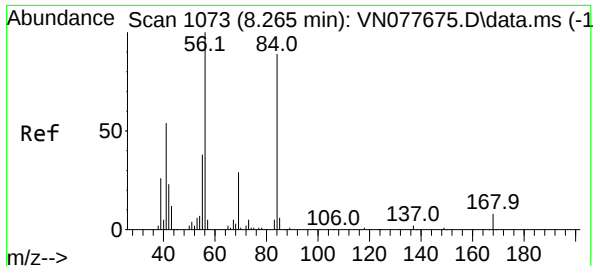
Tgt Ion: 83 Resp: 18380

Ion Ratio Lower Upper

83 100

85 59.8 55.4 83.0





#31

Cyclohexane

Concen: 1.112 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.029 min

Lab File: VN077925.D

Acq: 26 May 2023 14:17

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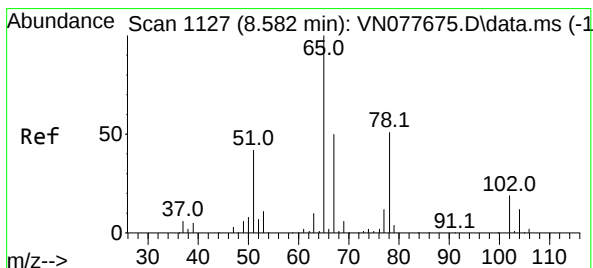
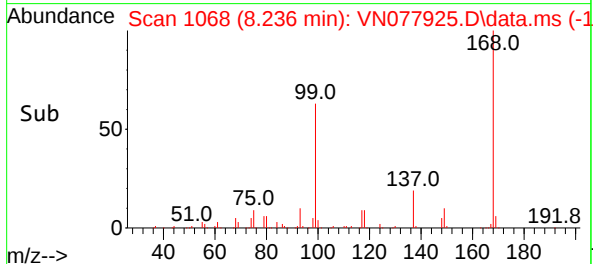
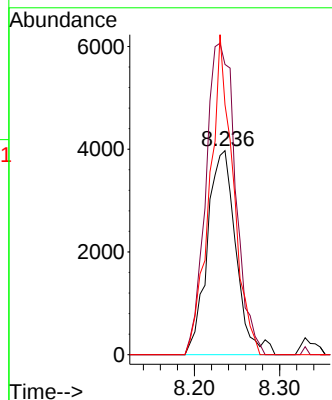
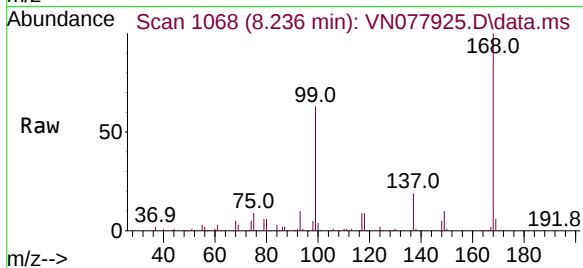
Tgt Ion: 56 Resp: 9247

Ion Ratio Lower Upper

56 100

69 142.2 26.8 40.2#

84 122.5 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 44.266 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.001 min

Lab File: VN077925.D

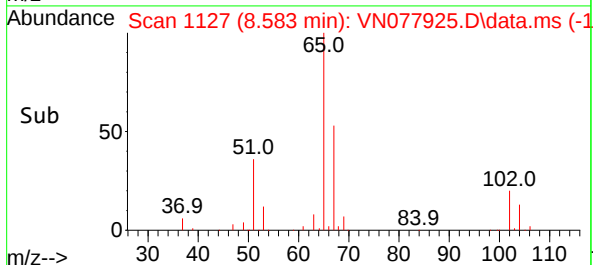
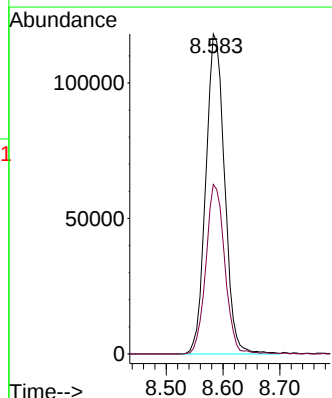
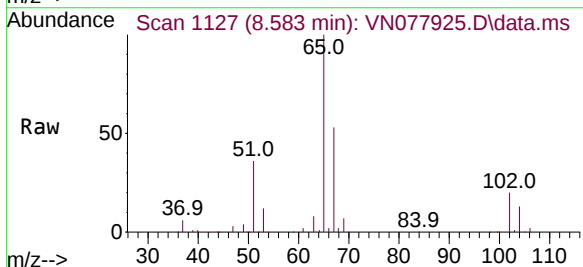
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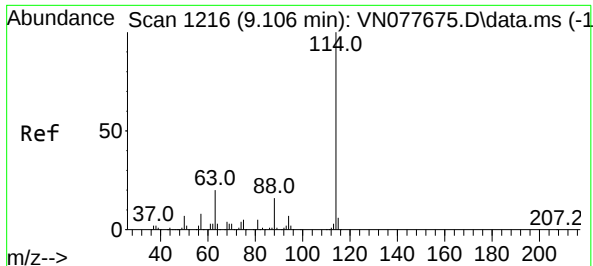
Tgt Ion: 65 Resp: 270762

Ion Ratio Lower Upper

65 100

67 53.1 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN077925.D

Acq: 26 May 2023 14:17

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001-002-003-2

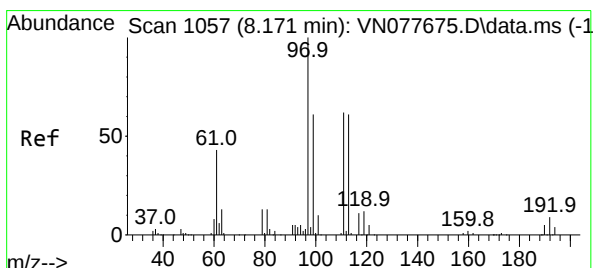
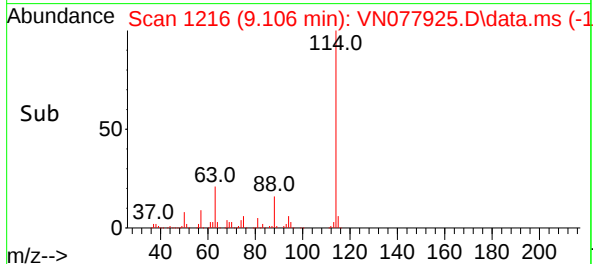
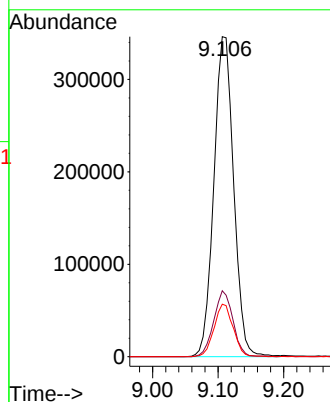
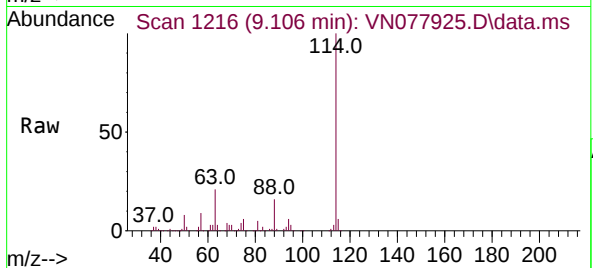
Tgt Ion:114 Resp: 725882

Ion Ratio Lower Upper

114 100

63 20.6 0.0 36.4

88 16.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.264 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN077925.D

Acq: 26 May 2023 14:17

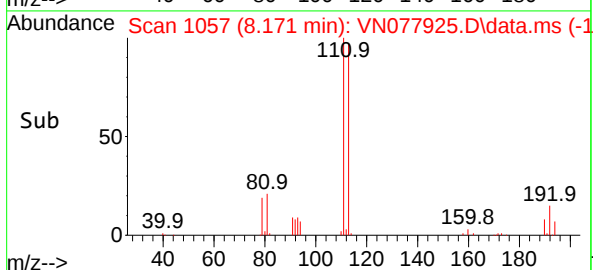
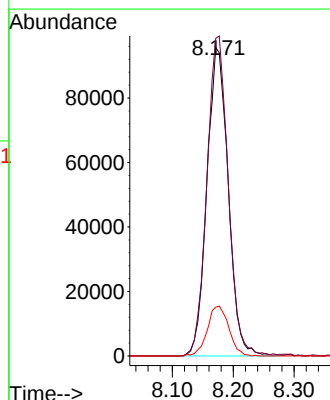
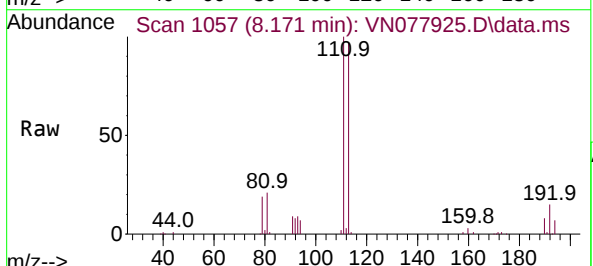
Tgt Ion:113 Resp: 233186

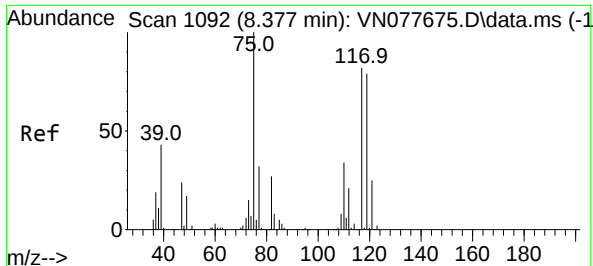
Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

192 16.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.916 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN077925.D

Acq: 26 May 2023 14:17

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001-002-003-2

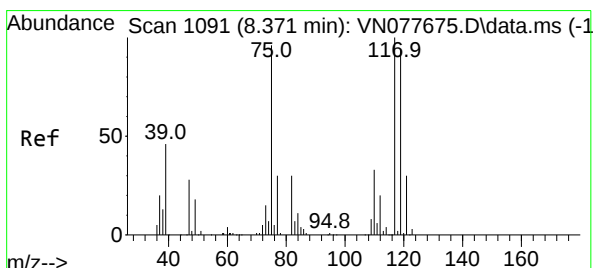
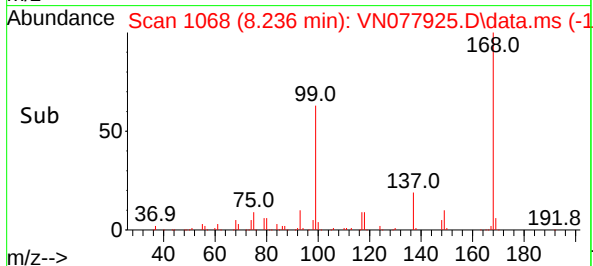
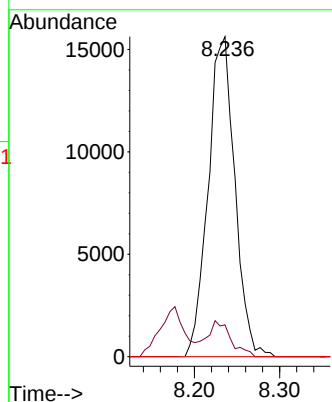
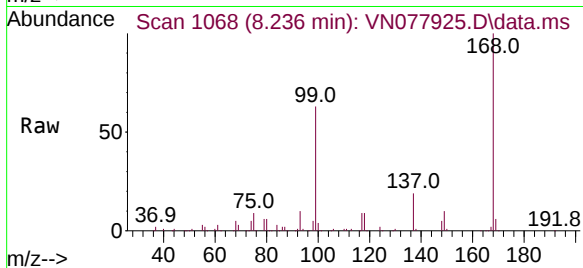
Tgt Ion: 75 Resp: 34036

Ion Ratio Lower Upper

75 100

110 10.2 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.418 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN077925.D

Acq: 26 May 2023 14:17

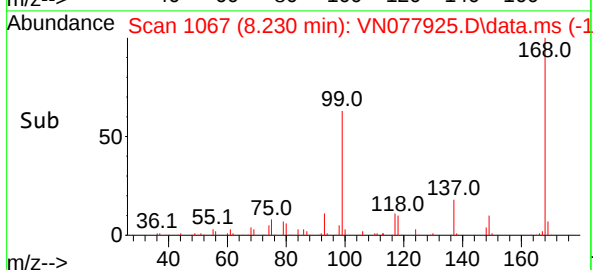
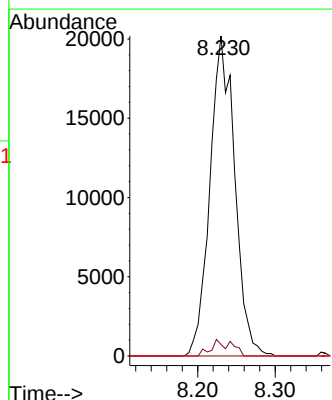
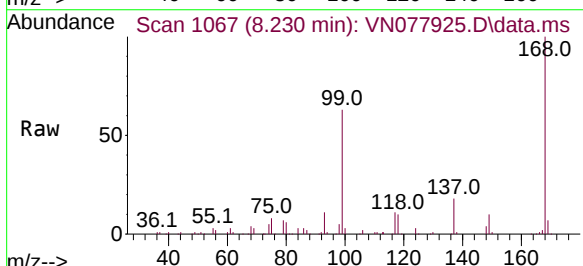
Tgt Ion: 117 Resp: 44866

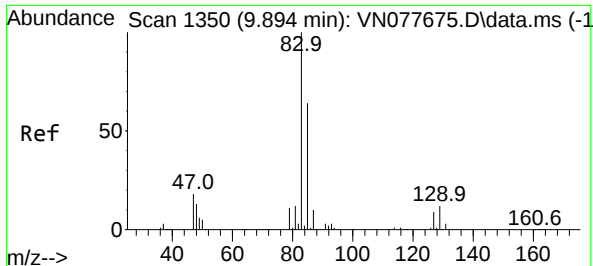
Ion Ratio Lower Upper

117 100

119 3.6 77.3 115.9#

121 0.0 23.3 34.9#

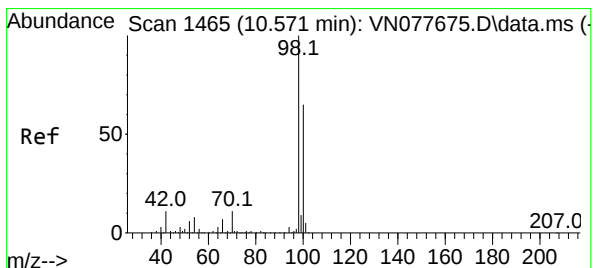
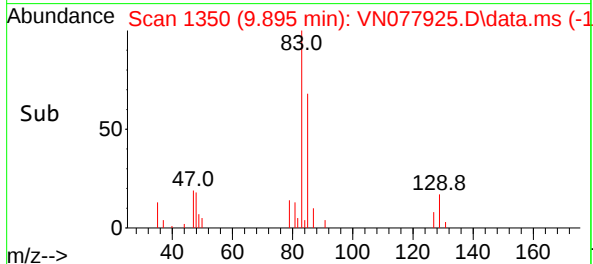
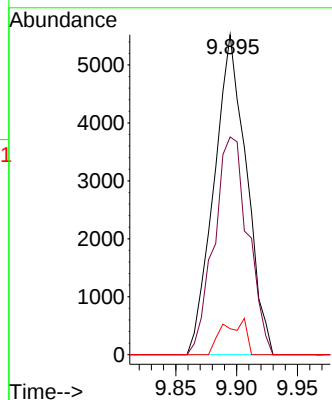
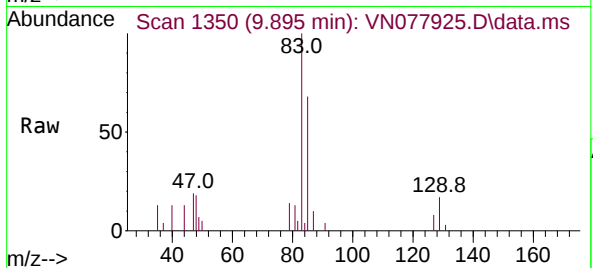




#47
Bromodichloromethane
Concen: 1.428 ug/l
RT: 9.895 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

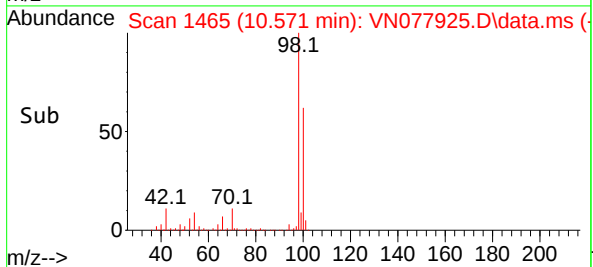
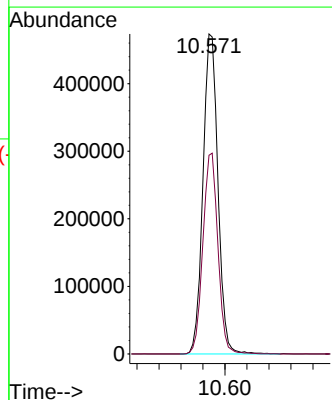
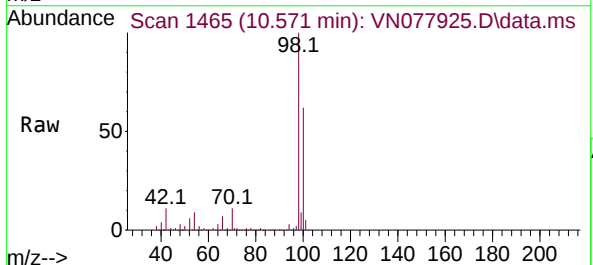
Instrument :
MSVOA_N
ClientSampleId :
001-002-003-2

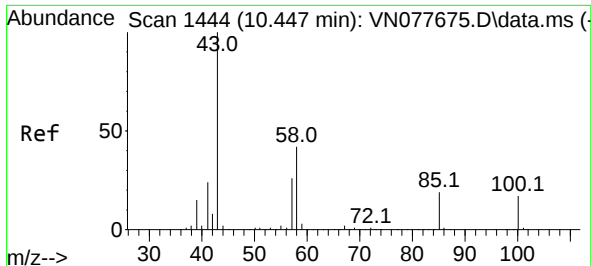
Tgt Ion: 83 Resp: 10197
Ion Ratio Lower Upper
83 100
85 68.1 49.6 74.4
127 8.1 7.0 10.6



#50
Toluene-d8
Concen: 49.041 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

Tgt Ion: 98 Resp: 893488
Ion Ratio Lower Upper
98 100
100 63.0 52.0 78.0

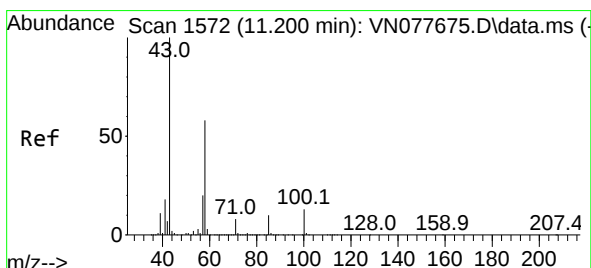
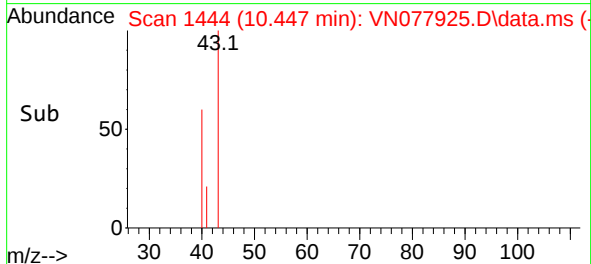
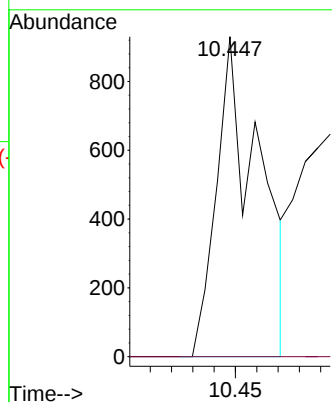
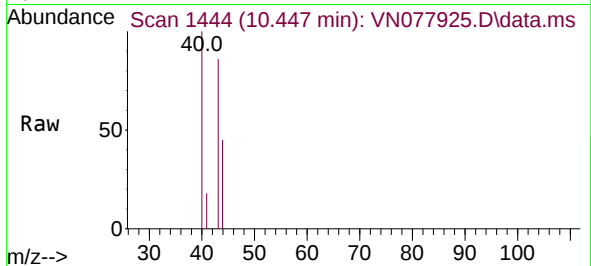




#51
4-Methyl-2-Pentanone
Concen: 0.214 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

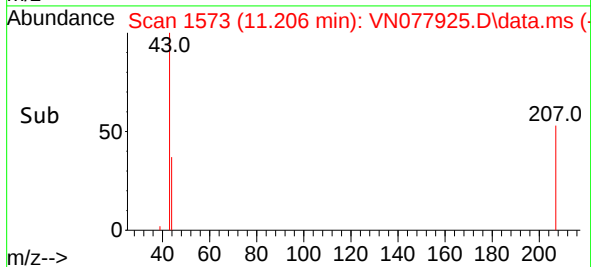
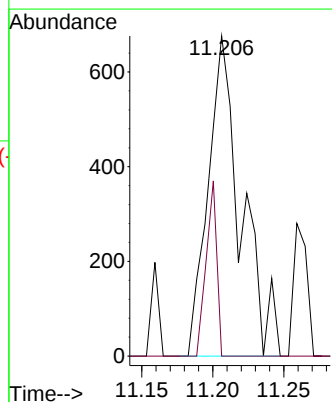
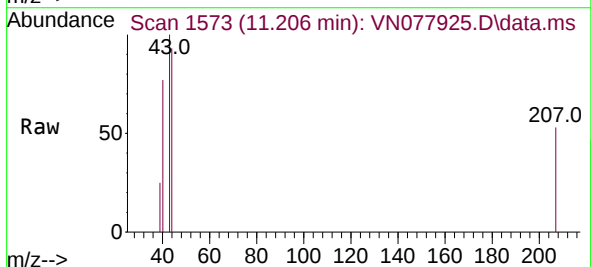
Instrument :
MSVOA_N
ClientSampleId :
001-002-003-2

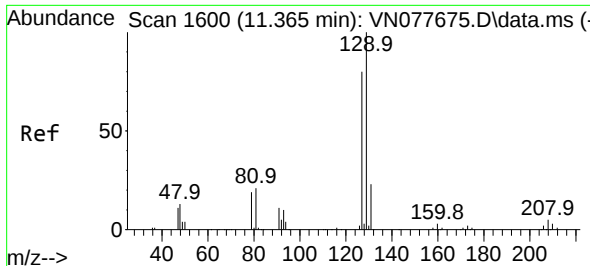
Tgt Ion: 43 Resp: 1281
Ion Ratio Lower Upper
43 100
58 0.0 36.6 54.8#



#59
2-Hexanone
Concen: 0.246 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

Tgt Ion: 43 Resp: 1091
Ion Ratio Lower Upper
43 100
58 17.7 31.7 95.1#

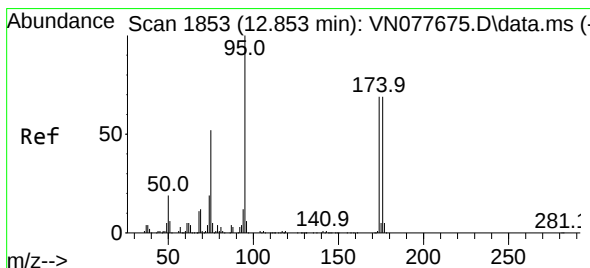
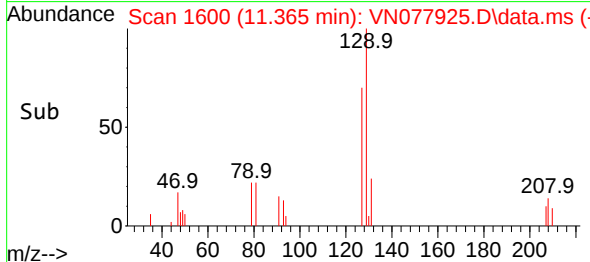
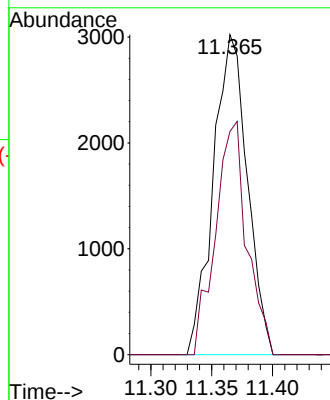
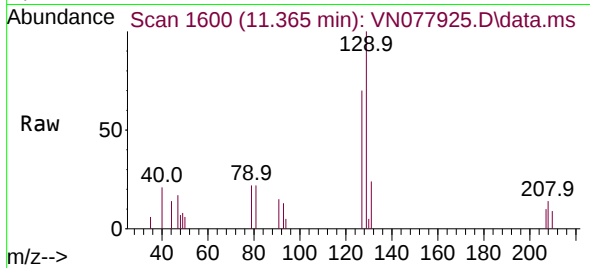




#60
Dibromochloromethane
Concen: 1.126 ug/l
RT: 11.365 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

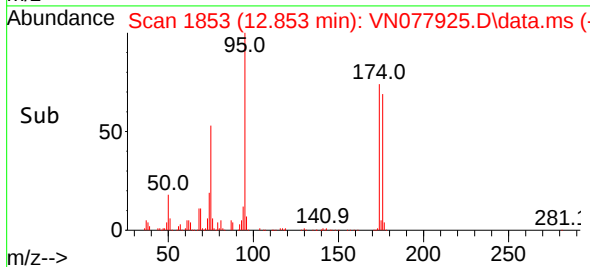
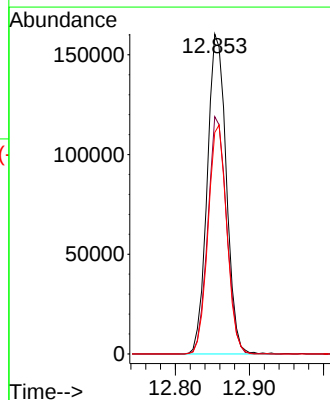
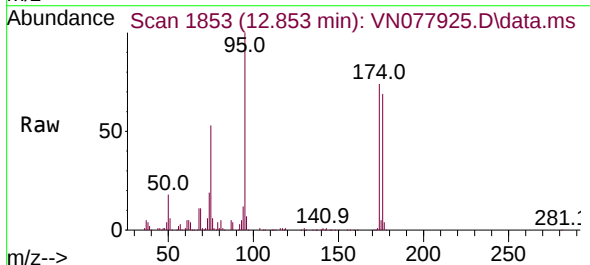
Instrument :
MSVOA_N
ClientSampleId :
001-002-003-2

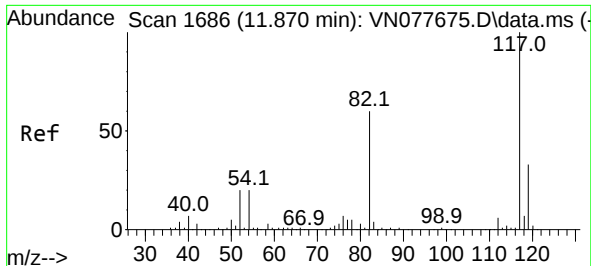
Tgt Ion:129 Resp: 5872
Ion Ratio Lower Upper
129 100
127 67.4 38.6 116.0



#62
4-Bromofluorobenzene
Concen: 44.457 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

Tgt Ion: 95 Resp: 286064
Ion Ratio Lower Upper
95 100
174 73.2 0.0 143.8
176 70.2 0.0 135.8

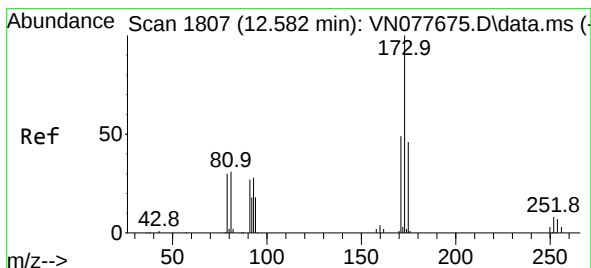
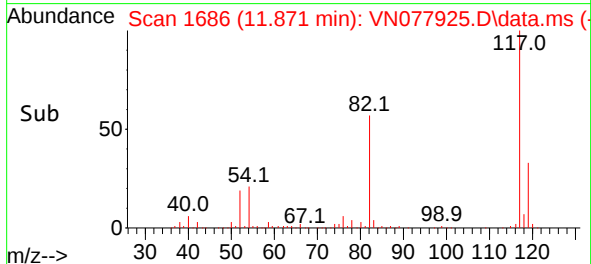
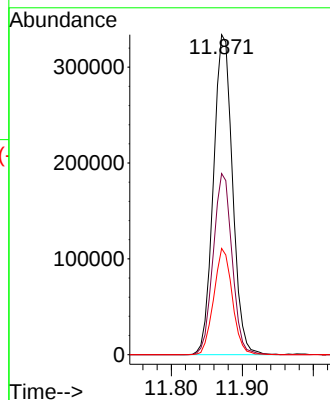
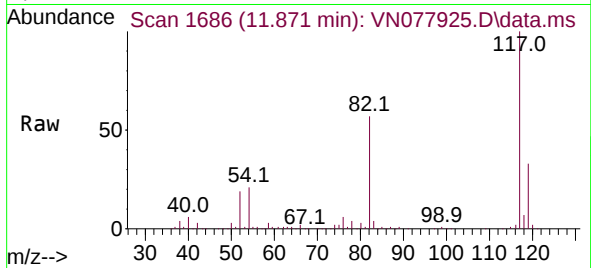




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

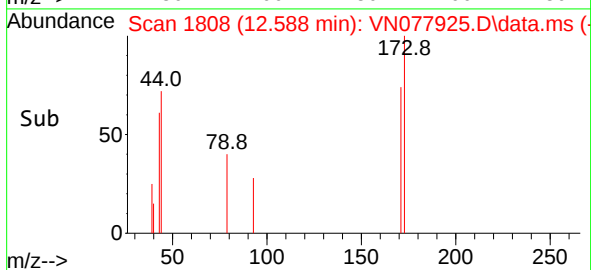
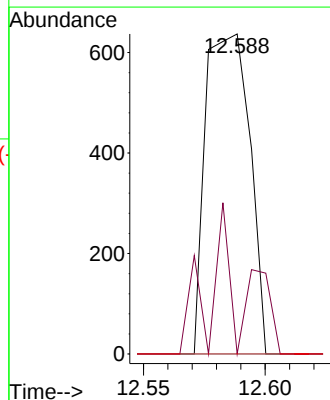
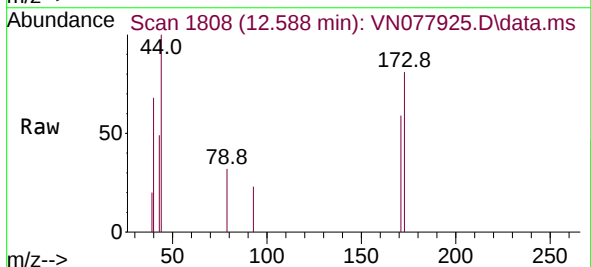
Instrument :
MSVOA_N
ClientSampleId :
001-002-003-2

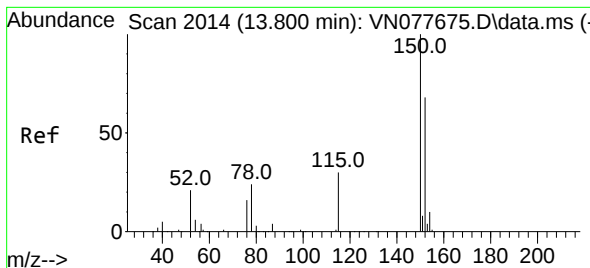
Tgt Ion:117 Resp: 622405
Ion Ratio Lower Upper
117 100
82 56.6 44.0 66.0
119 33.2 25.6 38.4



#71
Bromoform
Concen: 0.258 ug/l
RT: 12.588 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

Tgt Ion:173 Resp: 802
Ion Ratio Lower Upper
173 100
175 36.3 24.3 73.0
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.000 min

Lab File: VN077925.D

Acq: 26 May 2023 14:17

Instrument :

MSVOA_N

ClientSampleId :

001-002-003-2

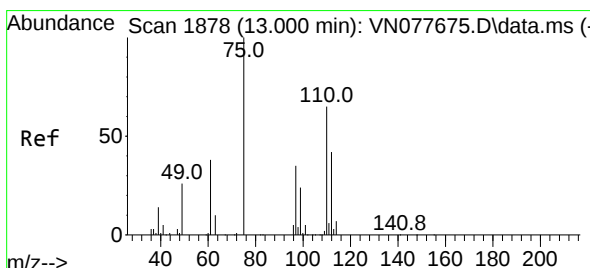
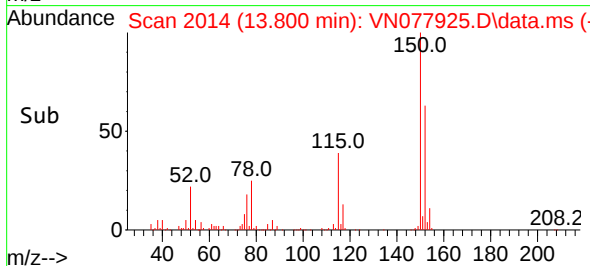
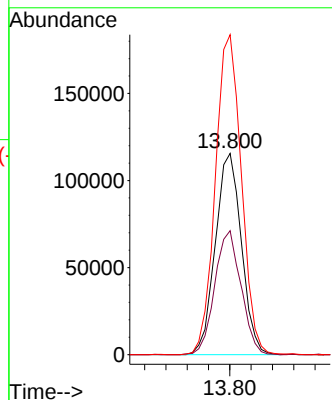
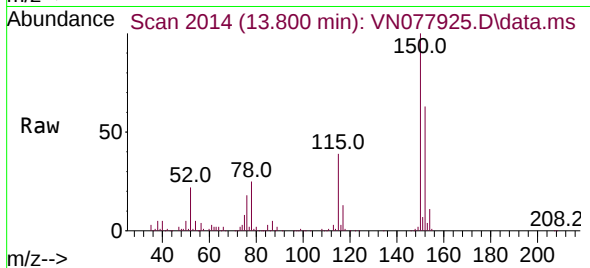
Tgt Ion:152 Resp: 196311

Ion Ratio Lower Upper

152 100

115 61.9 32.3 96.8

150 158.7 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 30.828 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN077925.D

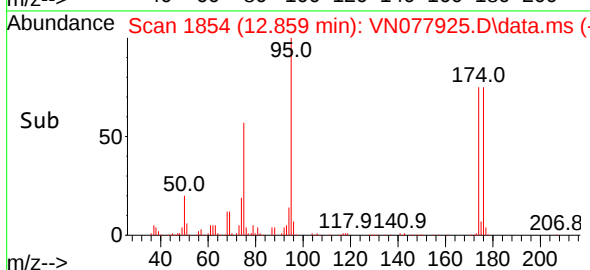
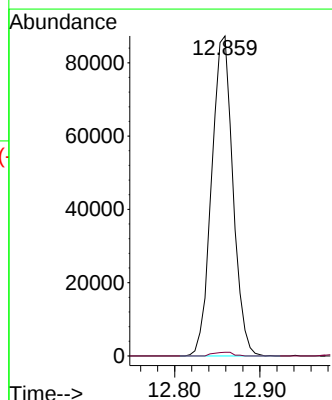
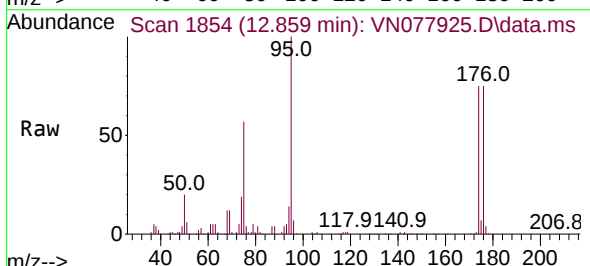
Acq: 26 May 2023 14:17

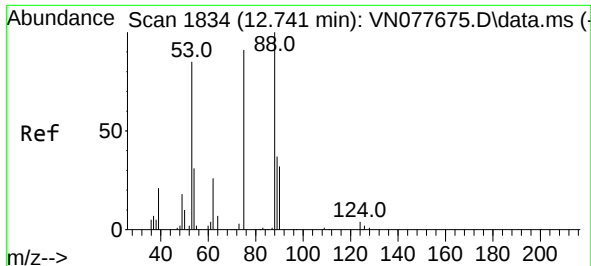
Tgt Ion: 75 Resp: 151561

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#

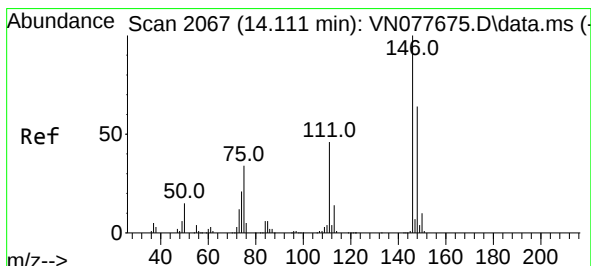
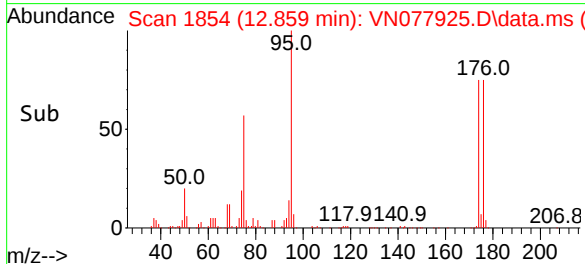
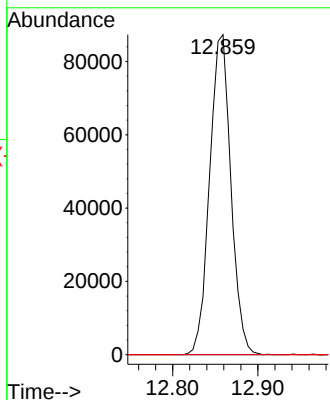
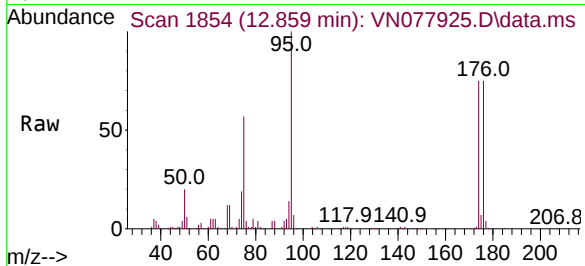




#81
trans-1,4-Dichloro-2-butene
Concen: 98.543 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

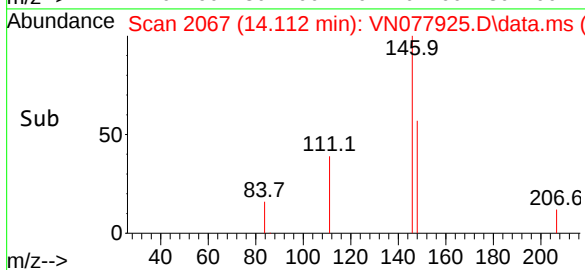
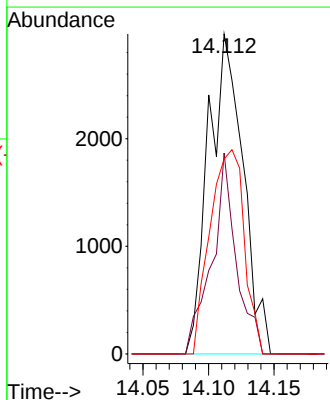
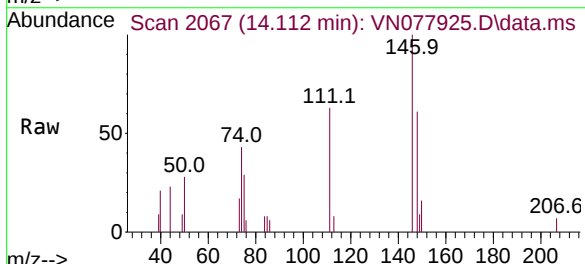
Instrument :
MSVOA_N
ClientSampleId :
001-002-003-2

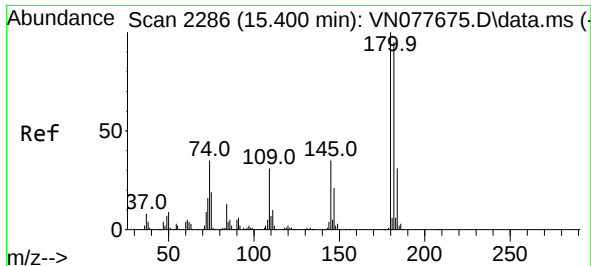
Tgt Ion: 75 Resp: 151561
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#91
1,2-Dichlorobenzene
Concen: 0.816 ug/l
RT: 14.112 min Scan# 2067
Delta R.T. 0.001 min
Lab File: VN077925.D
Acq: 26 May 2023 14:17

Tgt Ion:146 Resp: 5443
Ion Ratio Lower Upper
146 100
111 44.6 22.0 66.0
148 63.3 31.8 95.3





#93

1,2,4-Trichlorobenzene

Concen: 0.249 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.012 min

Lab File: VN077925.D

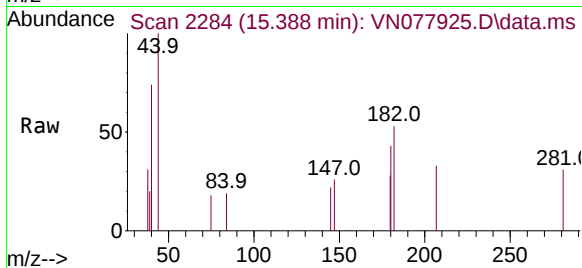
Acq: 26 May 2023 14:17

Instrument :

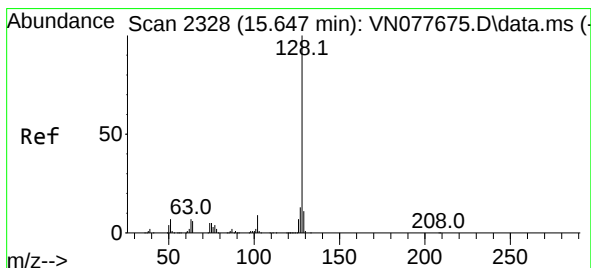
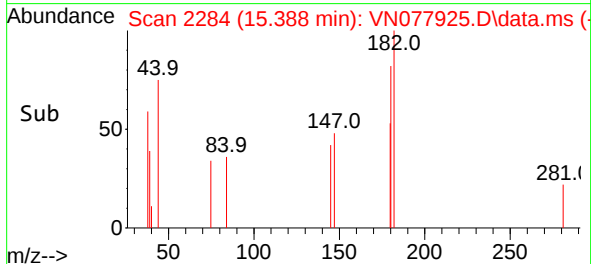
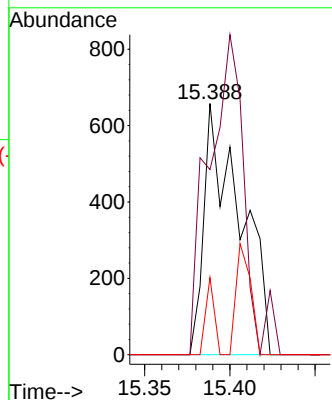
MSVOA_N

ClientSampleId :

001-002-003-2



Tgt Ion:180	Resp:	971
Ion Ratio	Lower	Upper
180	100	
182	0.0	46.1 138.2#
145	7.3	16.6 49.8#



#95

Naphthalene

Concen: 0.225 ug/l

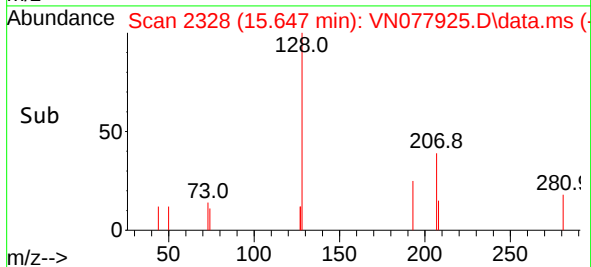
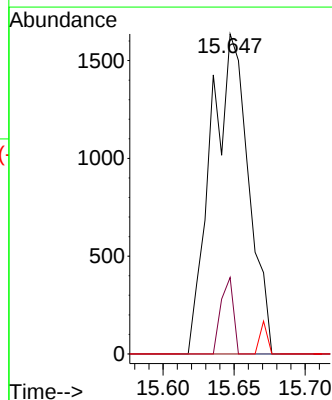
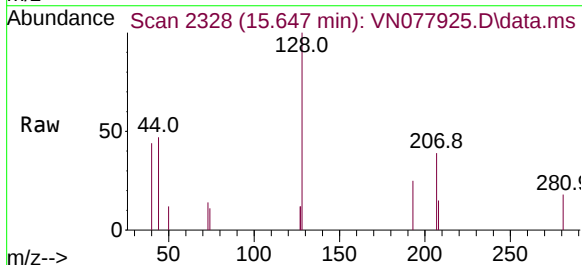
RT: 15.647 min Scan# 2328

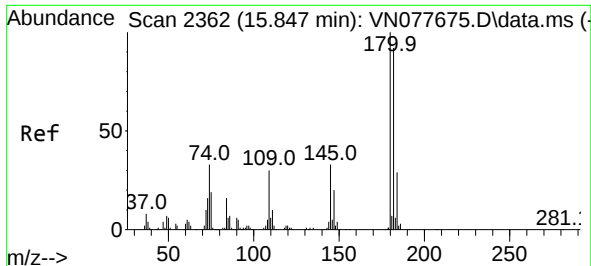
Delta R.T. 0.000 min

Lab File: VN077925.D

Acq: 26 May 2023 14:17

Tgt Ion:128	Resp:	3018
Ion Ratio	Lower	Upper
128	100	
127	7.9	10.0 15.0#
129	0.0	8.7 13.1#





#96

1,2,3-Trichlorobenzene

Concen: 0.215 ug/l

RT: 15.847 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN077925.D

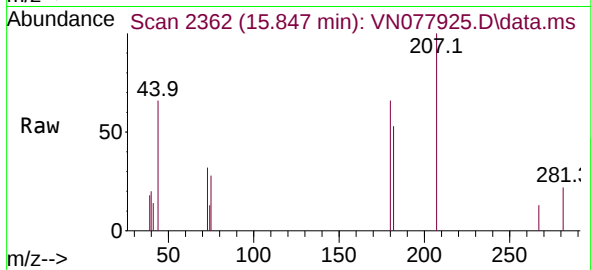
Acq: 26 May 2023 14:17

Instrument :

MSVOA_N

ClientSampleId :

001-002-003-2



Tgt Ion:	180	Resp:	819
Ion	Ratio	Lower	Upper
180	100		
182	131.9	46.2	138.6
145	0.0	17.5	52.6#

