

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110323\
 Data File : VN079873.D
 Acq On : 04 Nov 2023 03:33
 Operator : JC\MD
 Sample : 05223-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FSND-GEP-4-20231031

Quant Time: Nov 04 04:48:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

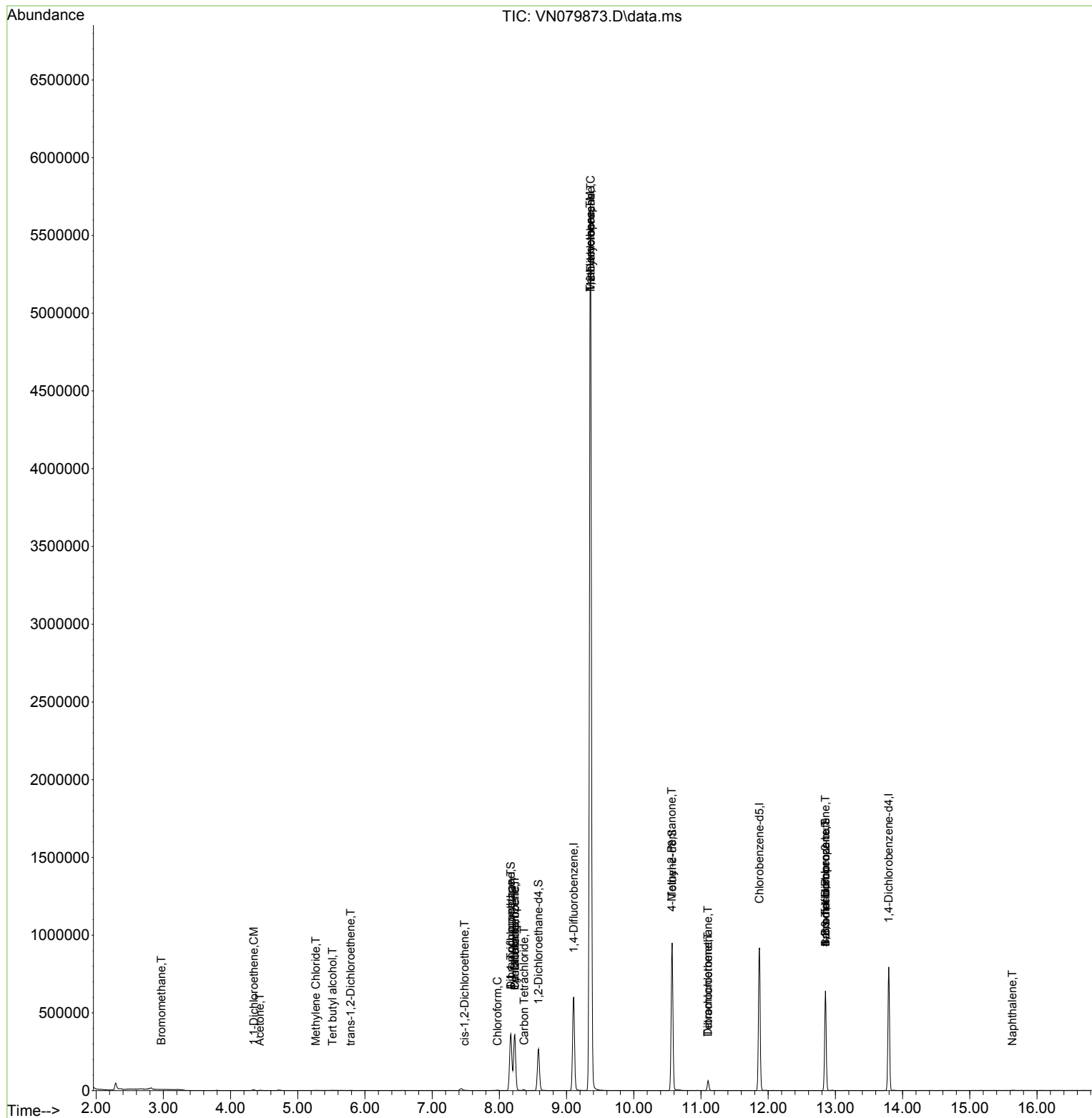
Internal Standards						
1) Pentafluorobenzene	8.230	168	249731	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	496316	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	520812	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	204177	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	212857	55.945	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.900%			
35) Dibromofluoromethane	8.171	113	178403	50.788	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.580%			
50) Toluene-d8	10.571	98	630361	48.746	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.500%			
62) 4-Bromofluorobenzene	12.853	95	206844	48.229	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.460%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.353	50	1694	Below Cal	#	82
5) Bromomethane	2.971	94	755	0.316	ug/l #	80
11) Tert butyl alcohol	5.518	59	474	0.976	ug/l #	72
12) 1,1-Dichloroethene	4.347	96	2991	1.113	ug/l #	89
16) Acetone	4.436	43	1758	1.315	ug/l	92
20) Methylene Chloride	5.271	84	684	0.203	ug/l #	75
21) trans-1,2-Dichloroethene	5.789	96	846	0.282	ug/l #	92
27) cis-1,2-Dichloroethene	7.483	96	822	0.229	ug/l	53
30) Chloroform	7.971	83	3303	0.524	ug/l #	53
31) Cyclohexane	8.230	56	6830	1.358	ug/l #	35
32) 1,1,1-Trichloroethane	8.171	97	91543	17.836	ug/l	94
36) 1,1-Dichloropropene	8.230	75	23583	4.702	ug/l #	47
38) Carbon Tetrachloride	8.371	117	3478	0.688	ug/l	94
39) Methylcyclohexane	9.359	83	26283	5.568	ug/l #	1
44) Trichloroethene	9.353	130	1972762	529.215	ug/l	97
45) 1,2-Dichloropropane	9.359	63	6284	1.637	ug/l #	1
51) 4-Methyl-2-Pentanone	10.565	43	3030	0.667	ug/l #	1
60) Dibromochloromethane	11.106	129	13319	3.474	ug/l #	11
64) Tetrachloroethene	11.106	164	13647	4.046	ug/l	95
71) Bromoform	12.853	173	1190	0.412	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	114251	23.835	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	114251	64.849	ug/l #	15
95) Naphthalene	15.635	128	2373	0.221	ug/l #	70

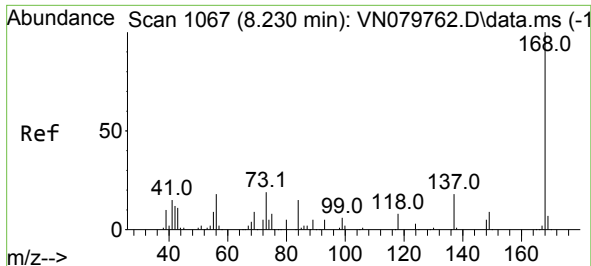
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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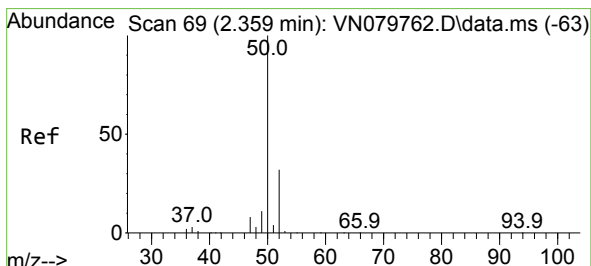
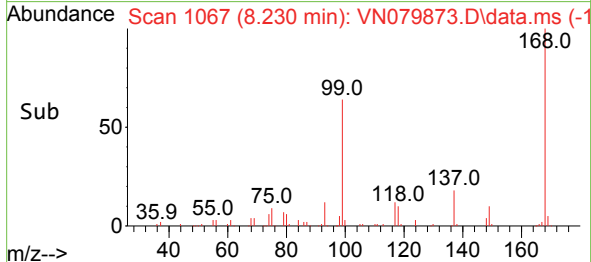
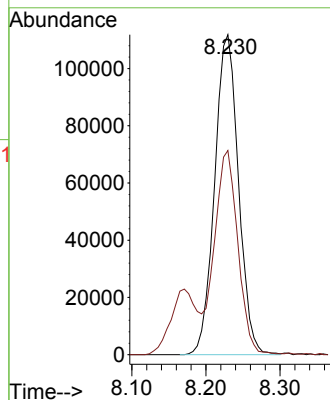
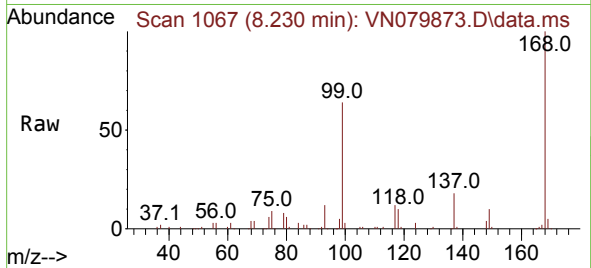




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.001 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

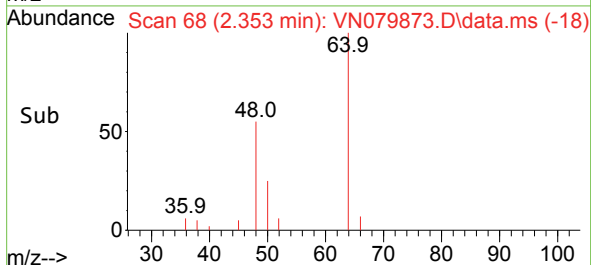
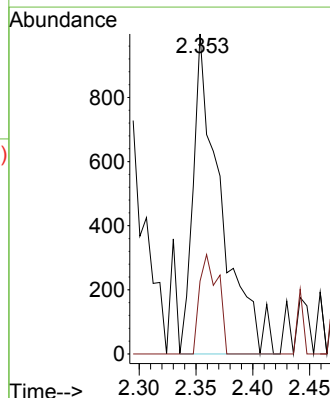
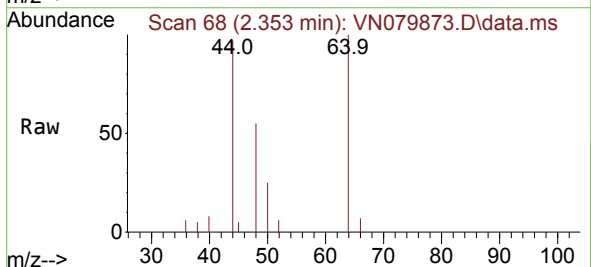
Instrument :
MSVOA_N
ClientSampleId :
FSND-GEP-4-20231031

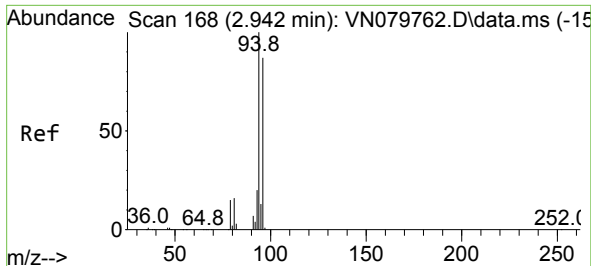
Tgt Ion:168 Resp: 249731
Ion Ratio Lower Upper
168 100
99 63.5 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.353 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

Tgt Ion: 50 Resp: 1694
Ion Ratio Lower Upper
50 100
52 22.7 26.5 39.7#

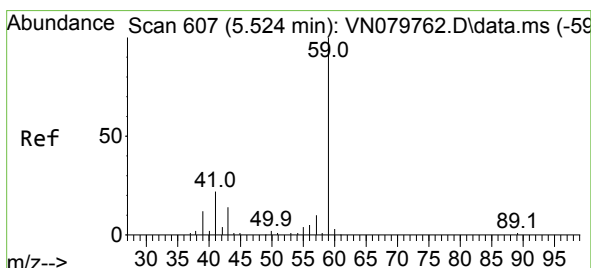
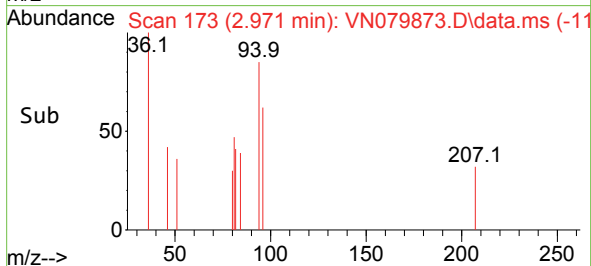
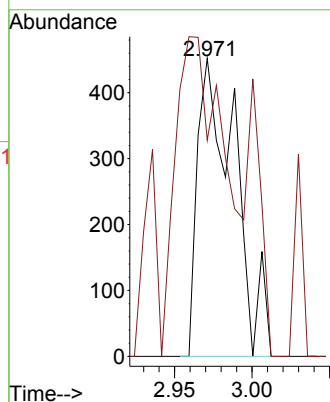
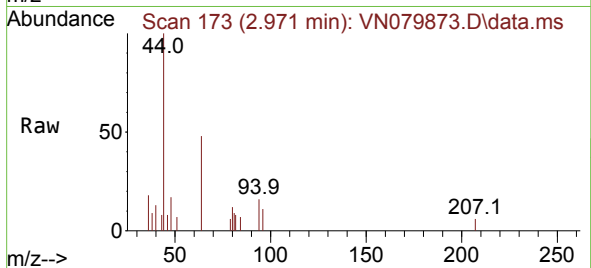




#5
Bromomethane
Concen: 0.316 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

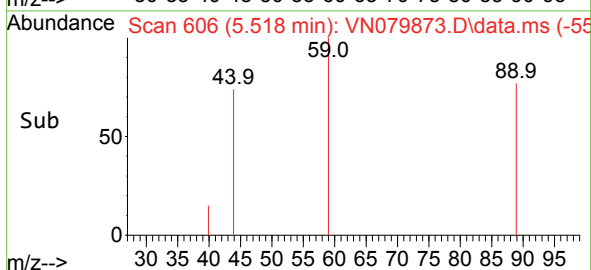
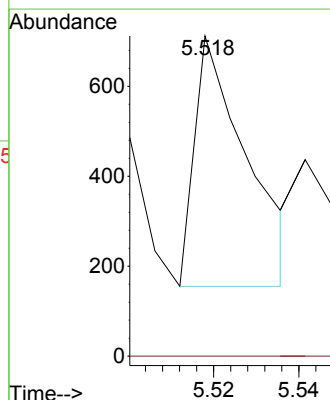
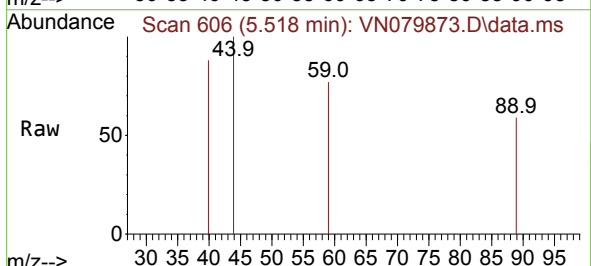
Instrument :
MSVOA_N
ClientSampleId :
FSND-GEP-4-20231031

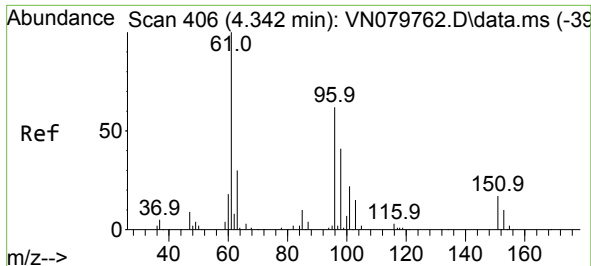
Tgt Ion: 94 Resp: 755
Ion Ratio Lower Upper
94 100
96 72.6 73.1 109.7#



#11
Tert butyl alcohol
Concen: 0.976 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

Tgt Ion: 59 Resp: 474
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

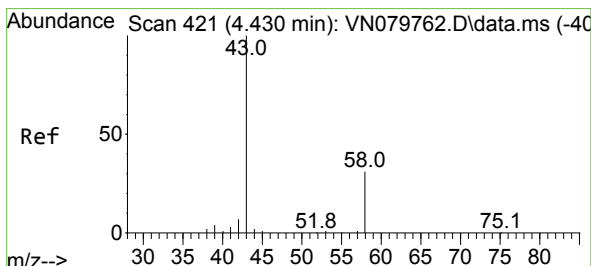
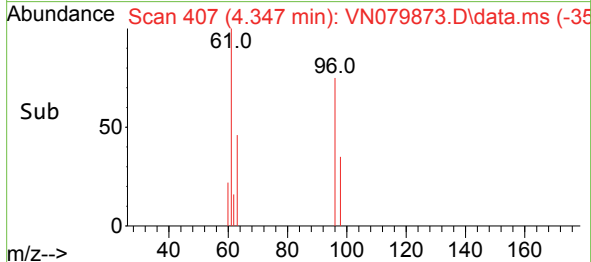
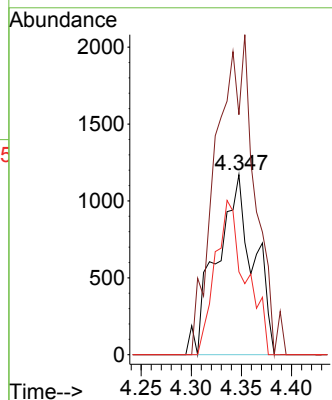
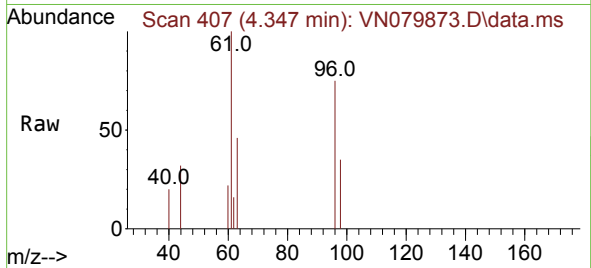




#12
1,1-Dichloroethene
Concen: 1.113 ug/l
RT: 4.347 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

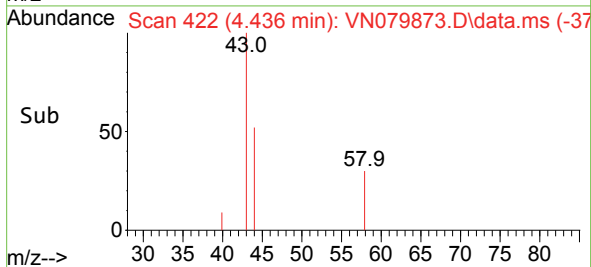
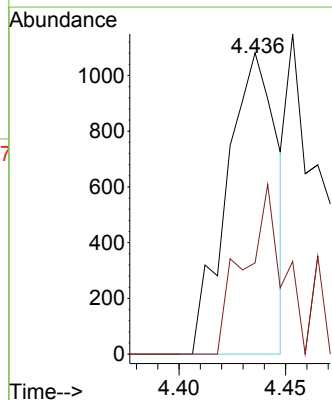
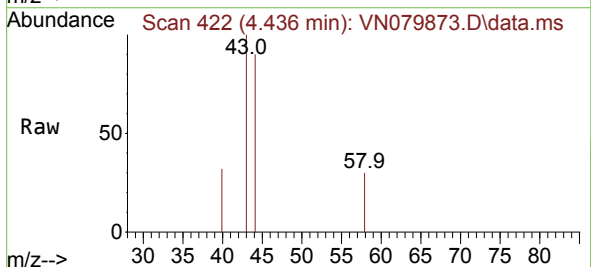
Instrument :
MSVOA_N
ClientSampleId :
FSND-GEP-4-20231031

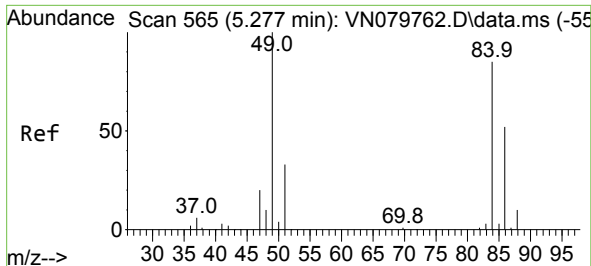
Tgt Ion: 96 Resp: 2991
Ion Ratio Lower Upper
96 100
61 133.3 112.7 169.1
98 46.0 51.2 76.8#



#16
Acetone
Concen: 1.315 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.006 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

Tgt Ion: 43 Resp: 1758
Ion Ratio Lower Upper
43 100
58 30.2 28.0 42.0

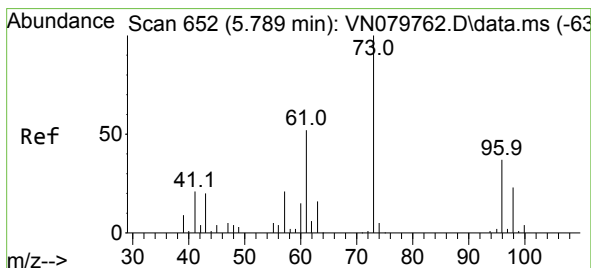
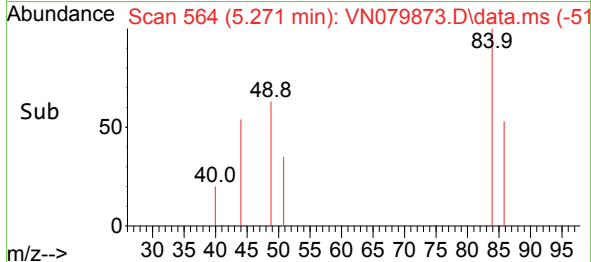
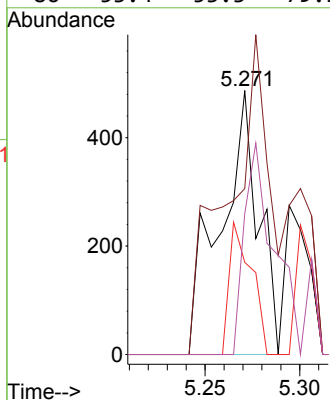
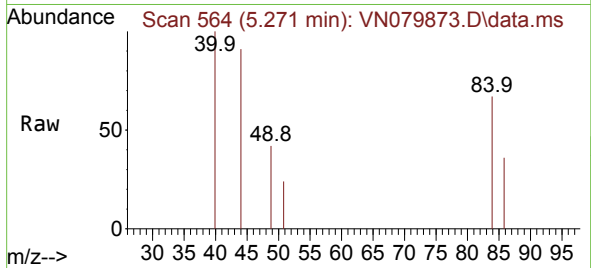




#20
Methylene Chloride
Concen: 0.203 ug/l
RT: 5.271 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

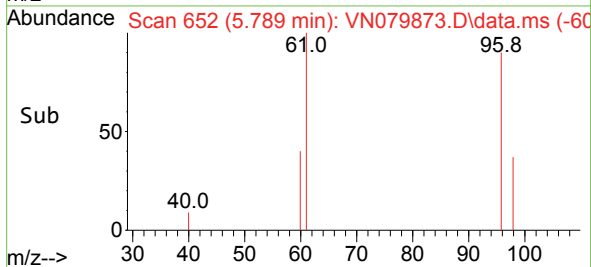
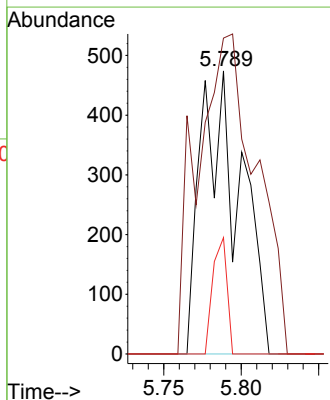
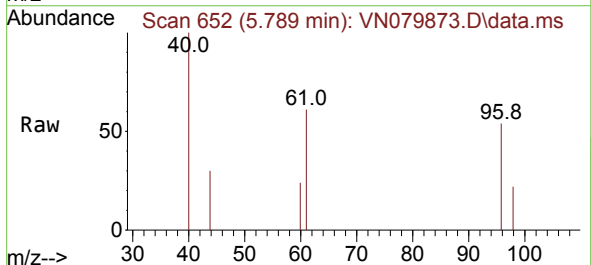
Instrument :
MSVOA_N
ClientSampleId :
FSND-GEP-4-20231031

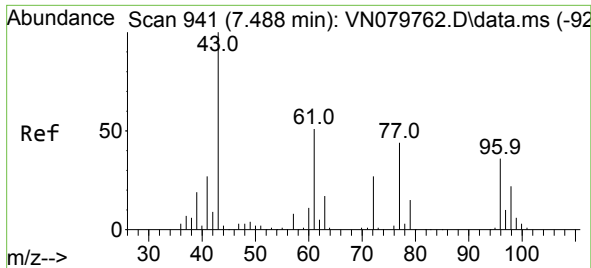
Tgt Ion:	84	Resp:	684
Ion	Ratio	Lower	Upper
84	100		
49	62.8	79.7	119.5#
51	34.9	25.2	37.8
86	53.4	53.3	79.9



#21
trans-1,2-Dichloroethene
Concen: 0.282 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.006 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

Tgt Ion:	96	Resp:	846
Ion	Ratio	Lower	Upper
96	100		
61	111.6	90.1	135.1
98	41.1	46.4	69.6#

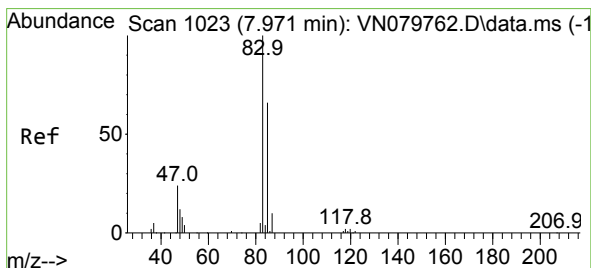
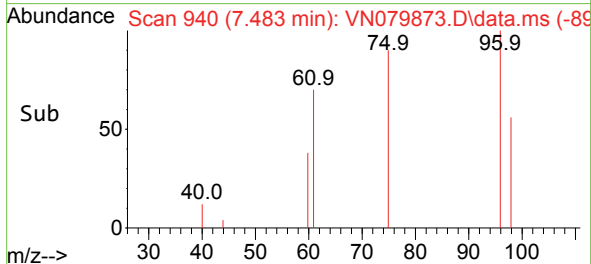
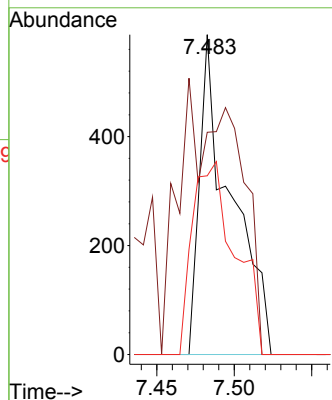
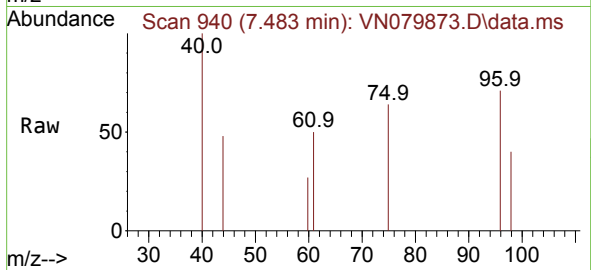




#27
 cis-1,2-Dichloroethene
 Concen: 0.229 ug/l
 RT: 7.483 min Scan# 941
 Delta R.T. -0.006 min
 Lab File: VN079873.D
 Acq: 04 Nov 2023 03:33

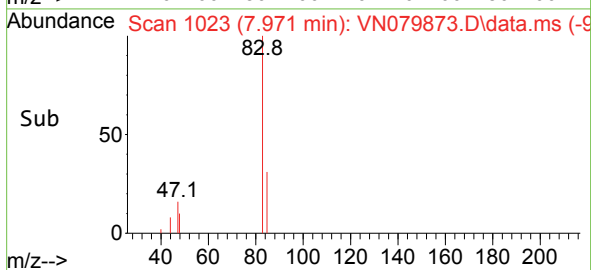
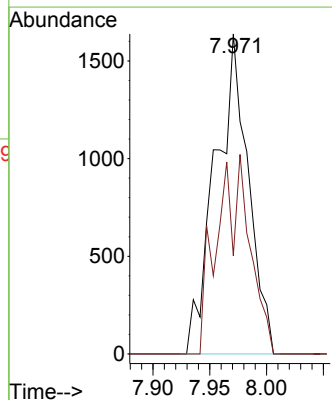
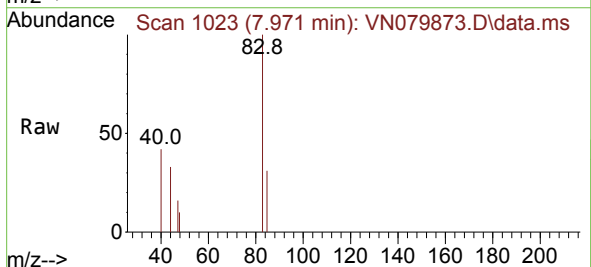
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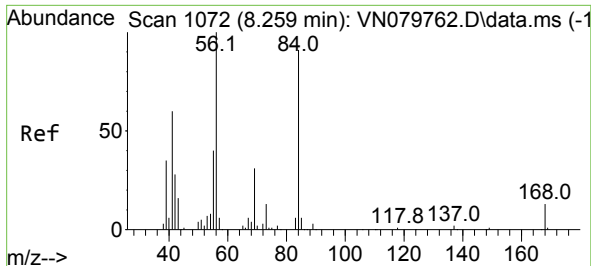
Tgt Ion: 96 Resp: 822
 Ion Ratio Lower Upper
 96 100
 61 59.9 0.0 255.2
 98 82.8 0.0 128.8



#30
 Chloroform
 Concen: 0.524 ug/l
 RT: 7.971 min Scan# 1023
 Delta R.T. 0.000 min
 Lab File: VN079873.D
 Acq: 04 Nov 2023 03:33

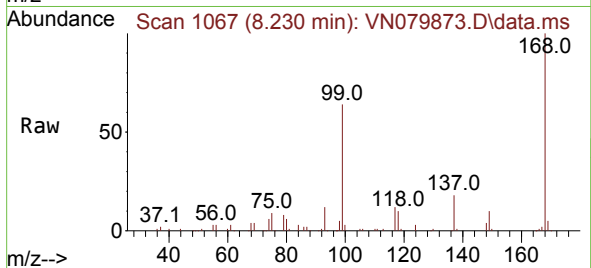
Tgt Ion: 83 Resp: 3303
 Ion Ratio Lower Upper
 83 100
 85 30.7 55.4 83.0#



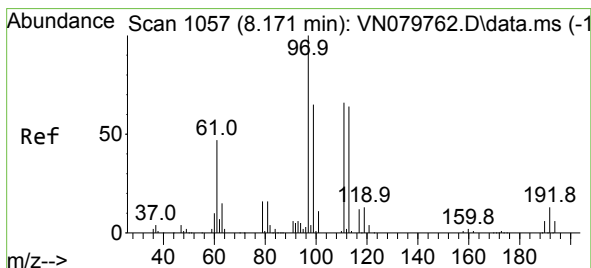
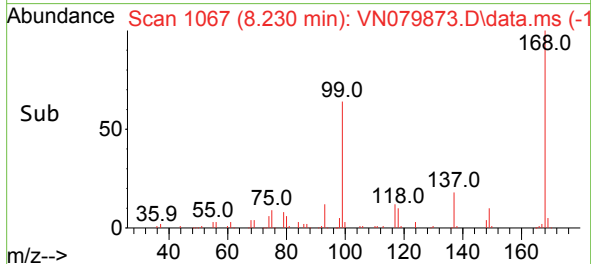
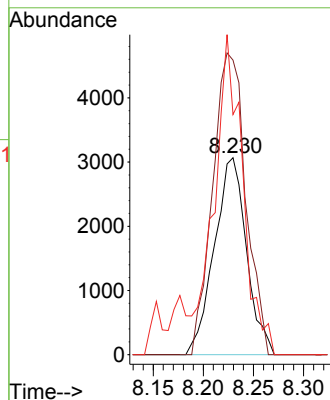


#31
Cyclohexane
Concen: 1.358 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

Instrument :
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ClientSampleId :
FSND-GEP-4-20231031

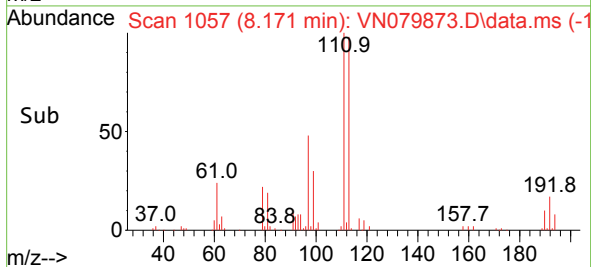
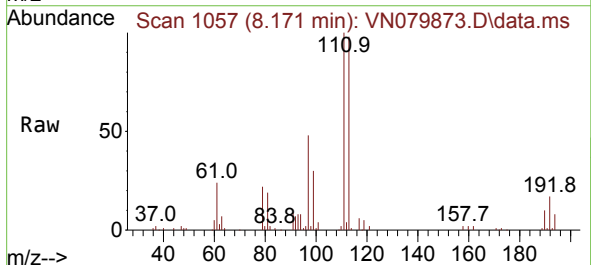
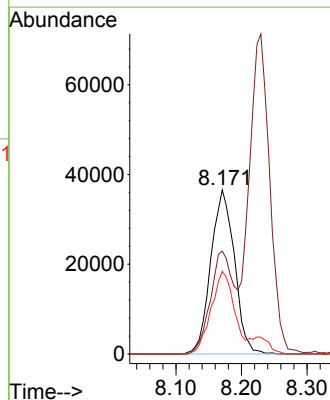


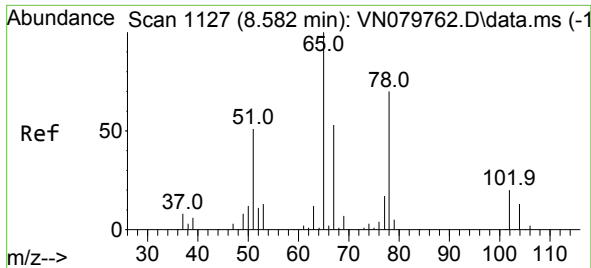
Tgt Ion: 56 Resp: 6830
Ion Ratio Lower Upper
56 100
69 149.5 26.8 40.2#
84 121.9 81.8 122.6



#32
1,1,1-Trichloroethane
Concen: 17.836 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

Tgt Ion: 97 Resp: 91543
Ion Ratio Lower Upper
97 100
99 62.2 50.3 75.5
61 51.5 34.7 52.1





#33

1,2-Dichloroethane-d4

Concen: 55.945 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079873.D

Acq: 04 Nov 2023 03:33

Instrument :

MSVOA_N

ClientSampleId :

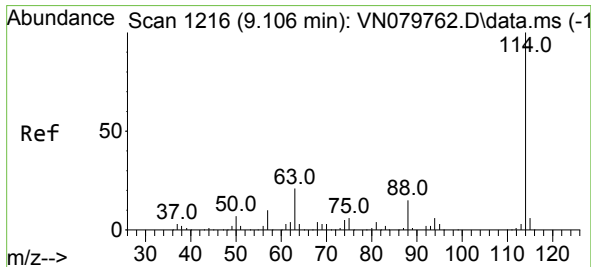
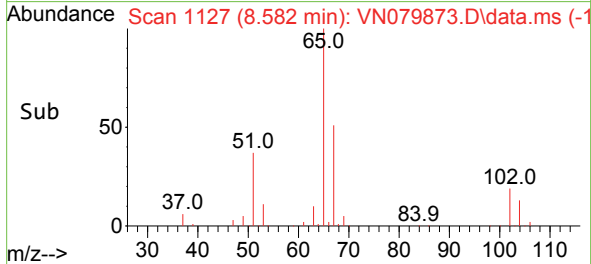
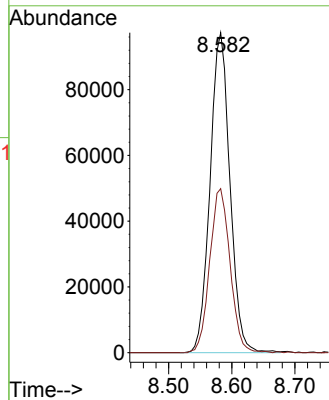
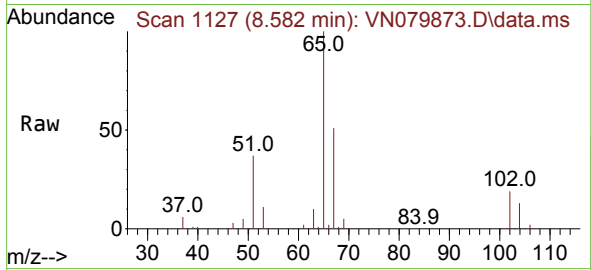
FSND-GEP-4-20231031

Tgt Ion: 65 Resp: 212857

Ion Ratio Lower Upper

65 100

67 52.4 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: VN079873.D

Acq: 04 Nov 2023 03:33

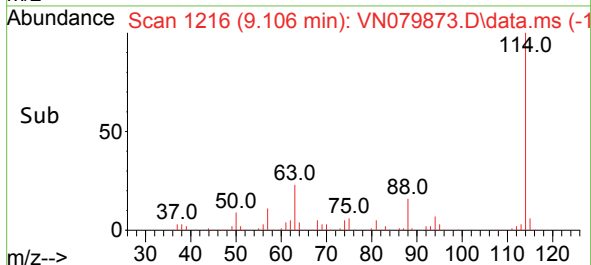
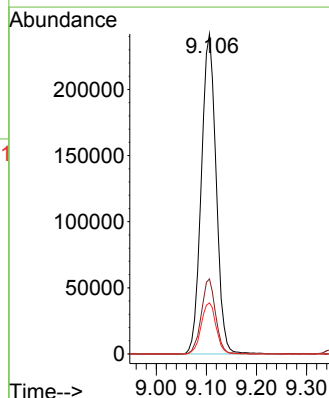
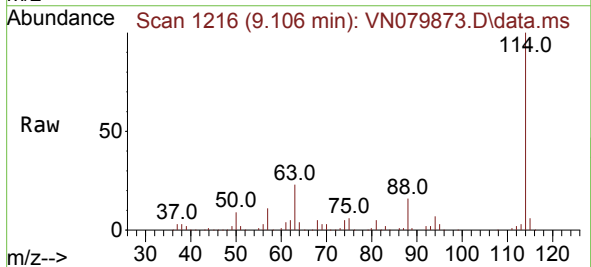
Tgt Ion: 114 Resp: 496316

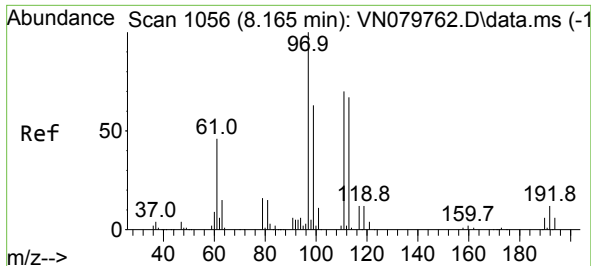
Ion Ratio Lower Upper

114 100

63 23.4 0.0 36.4

88 15.9 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.788 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN079873.D

Acq: 04 Nov 2023 03:33

Instrument :

MSVOA_N

ClientSampleId :

FSND-GEP-4-20231031

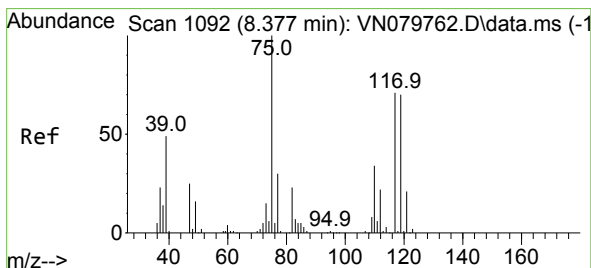
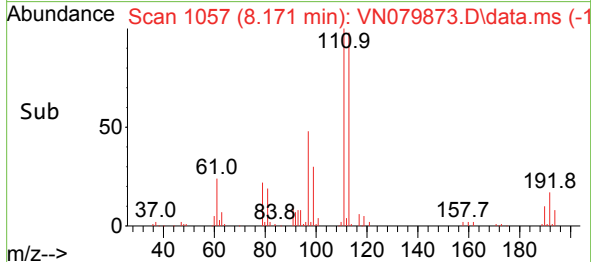
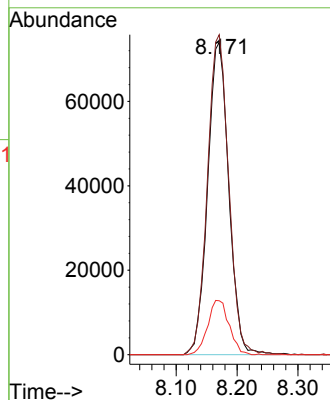
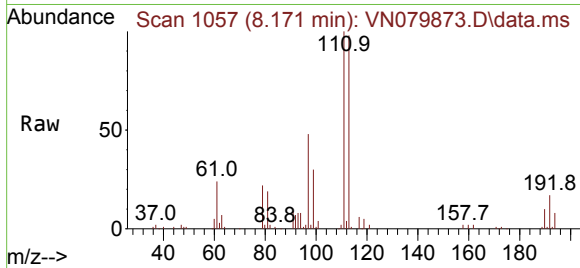
Tgt Ion:113 Resp: 178403

Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

192 17.6 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.702 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079873.D

Acq: 04 Nov 2023 03:33

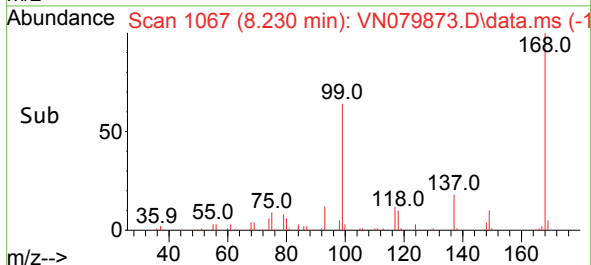
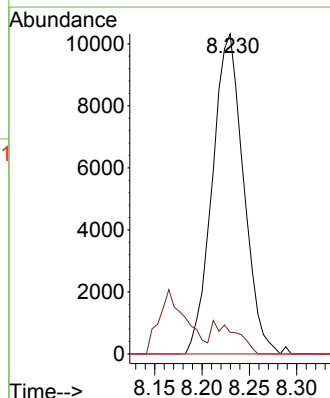
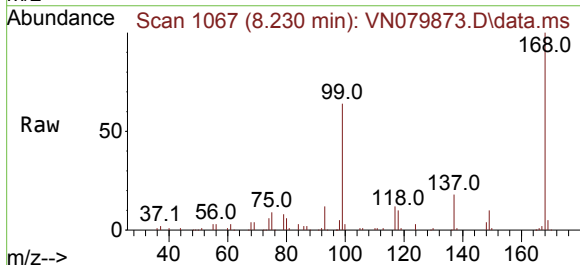
Tgt Ion: 75 Resp: 23583

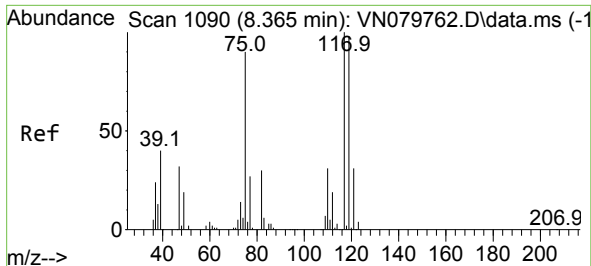
Ion Ratio Lower Upper

75 100

110 8.0 19.1 57.3#

77 0.0 25.0 37.4#

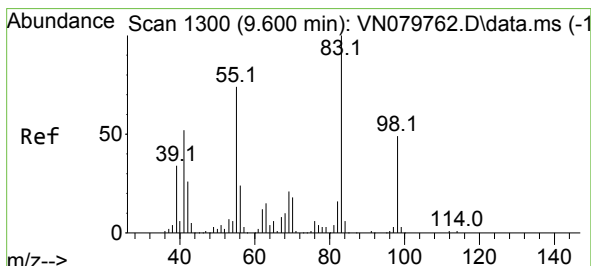
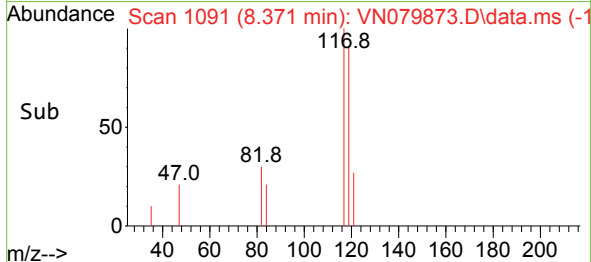
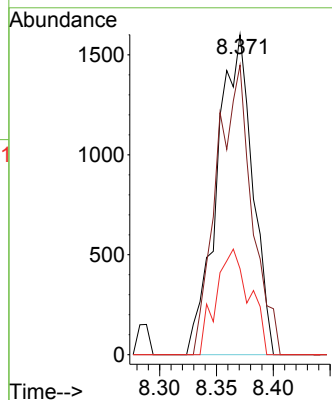
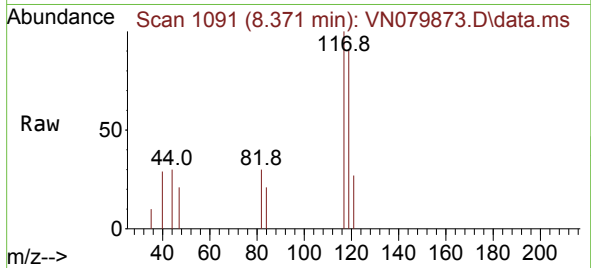




#38
Carbon Tetrachloride
Concen: 0.688 ug/l
RT: 8.371 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

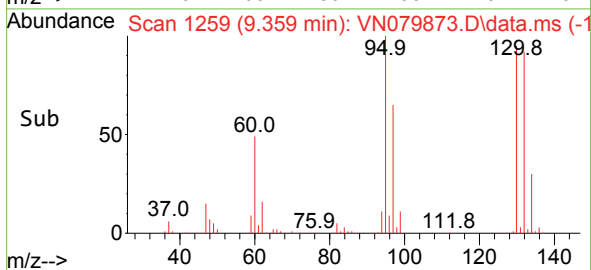
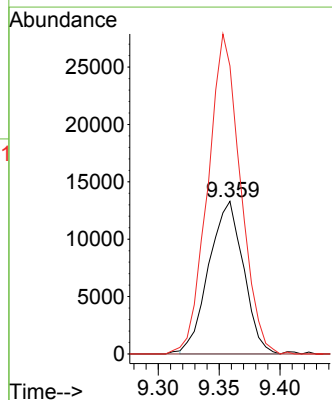
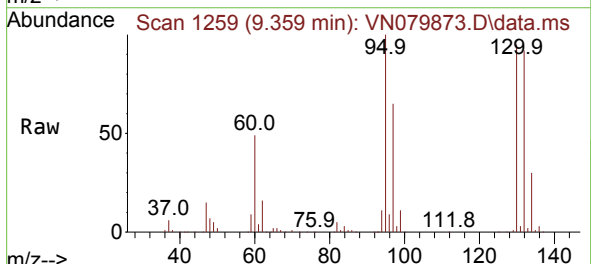
Instrument :
MSVOA_N
ClientSampleId :
FSND-GEP-4-20231031

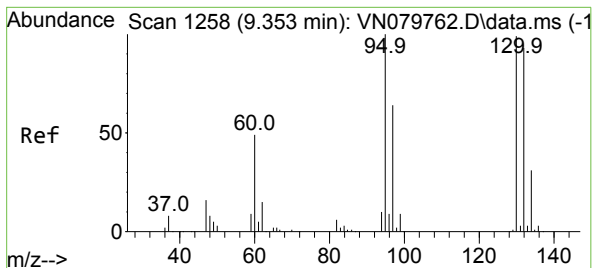
Tgt Ion:117 Resp: 3478
Ion Ratio Lower Upper
117 100
119 90.5 77.3 115.9
121 26.9 23.3 34.9



#39
Methylcyclohexane
Concen: 5.568 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.247 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

Tgt Ion: 83 Resp: 26283
Ion Ratio Lower Upper
83 100
55 0.0 49.1 73.7#
98 188.7 40.6 61.0#





#44

Trichloroethene

Concen: 529.215 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN079873.D

Acq: 04 Nov 2023 03:33

Instrument :

MSVOA_N

ClientSampleId :

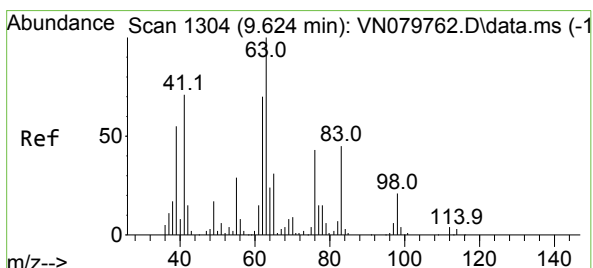
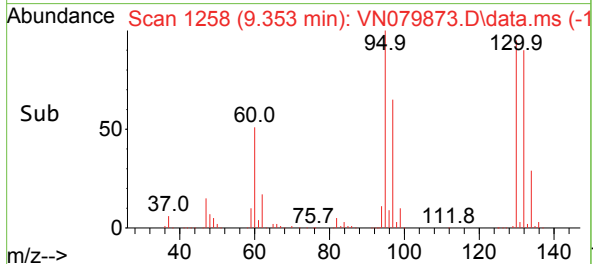
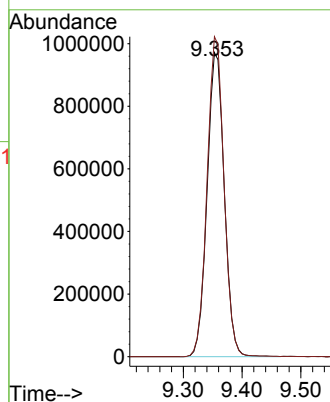
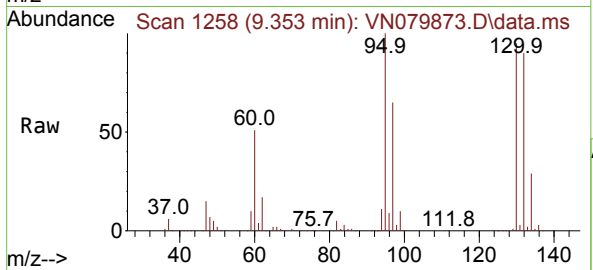
FSND-GEP-4-20231031

Tgt Ion:130 Resp: 1972762

Ion Ratio Lower Upper

130 100

95 105.2 0.0 204.6



#45

1,2-Dichloropropane

Concen: 1.637 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. -0.265 min

Lab File: VN079873.D

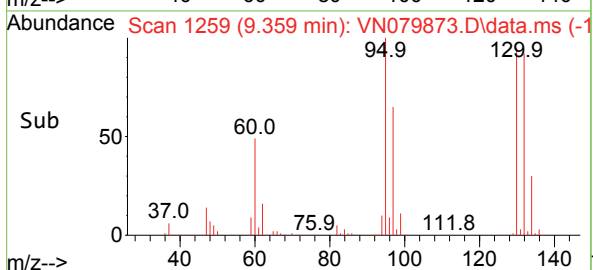
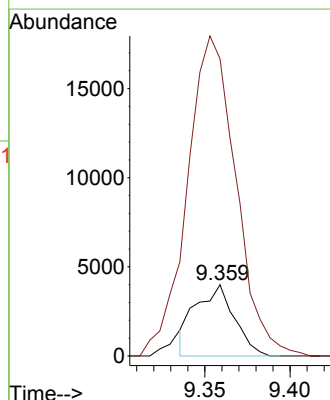
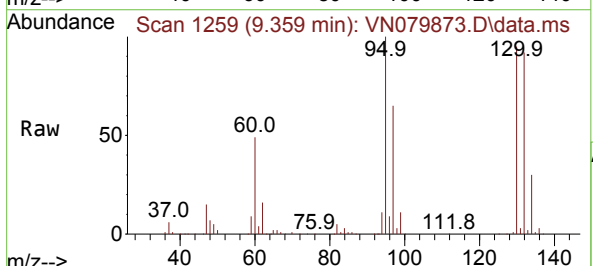
Acq: 04 Nov 2023 03:33

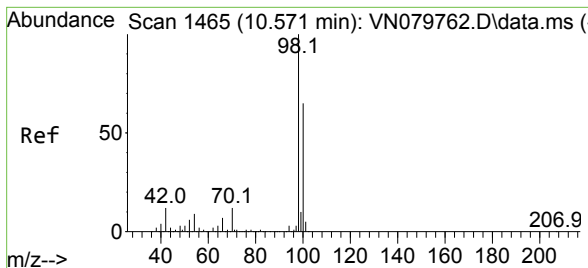
Tgt Ion: 63 Resp: 6284

Ion Ratio Lower Upper

63 100

65 403.5 23.9 35.9#





#50

Toluene-d8

Concen: 48.746 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079873.D

Acq: 04 Nov 2023 03:33

Instrument :

MSVOA_N

ClientSampleId :

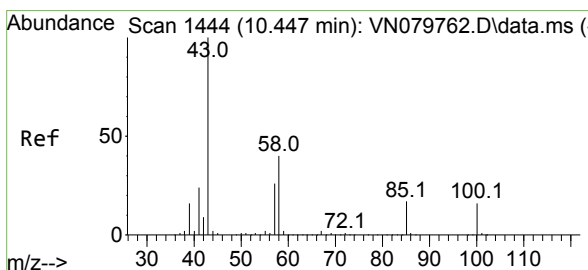
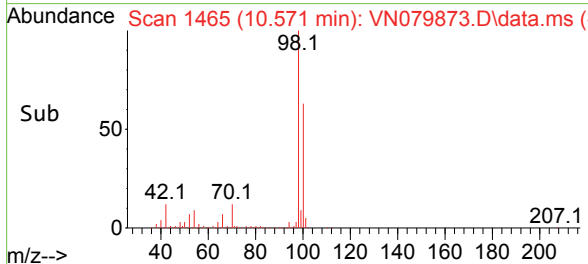
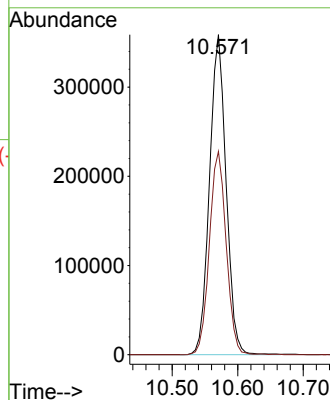
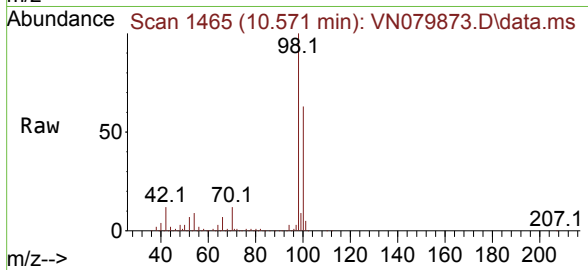
FSND-GEP-4-20231031

Tgt Ion: 98 Resp: 630361

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.667 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.118 min

Lab File: VN079873.D

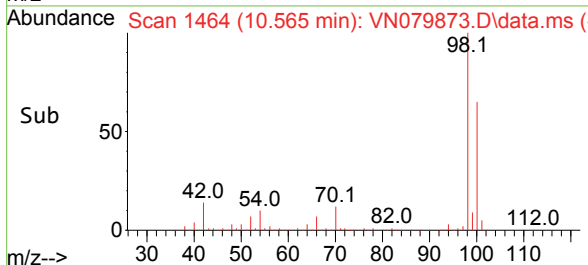
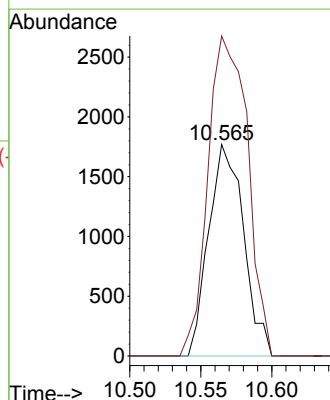
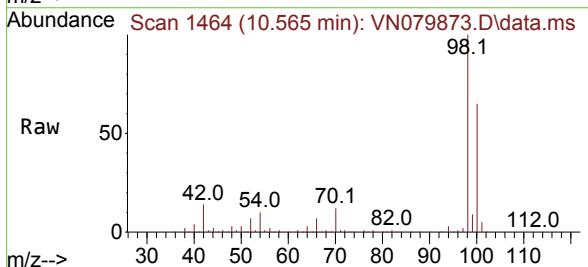
Acq: 04 Nov 2023 03:33

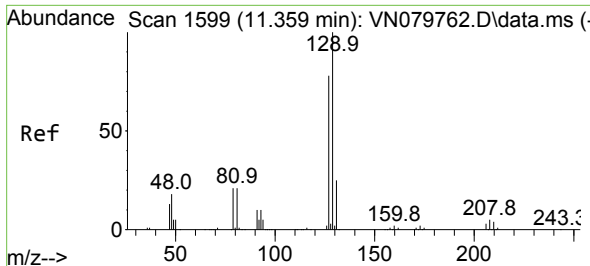
Tgt Ion: 43 Resp: 3030

Ion Ratio Lower Upper

43 100

58 171.7 36.6 54.8#

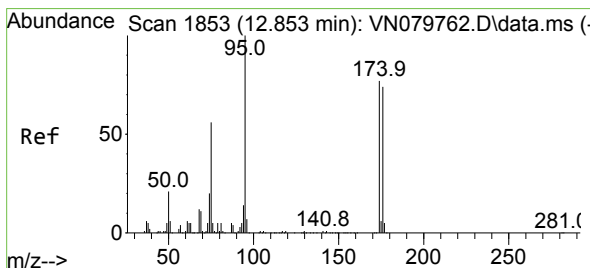
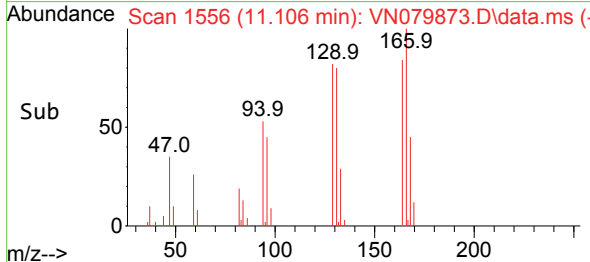
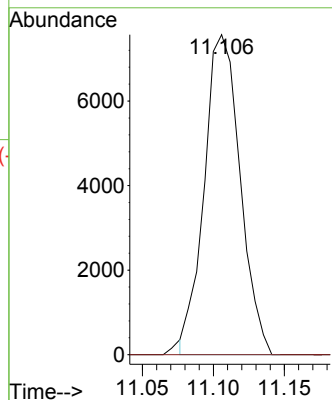
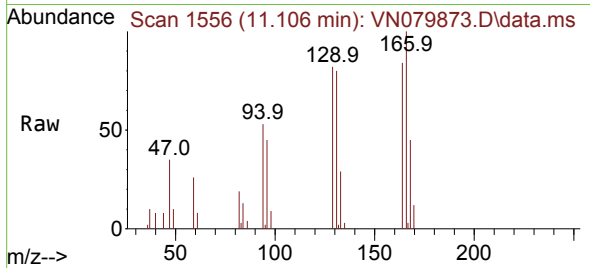




#60
Dibromochloromethane
Concen: 3.474 ug/l
RT: 11.106 min Scan# 11
Delta R.T. -0.259 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

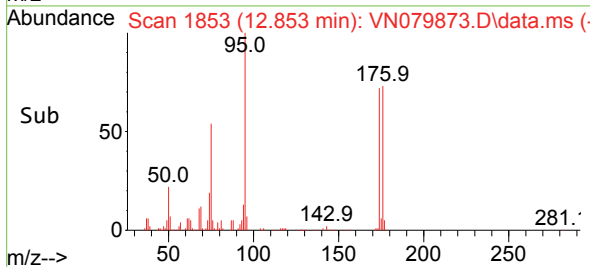
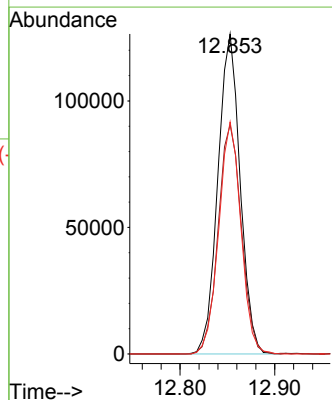
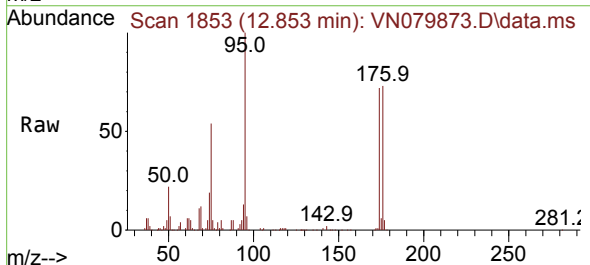
Instrument :
MSVOA_N
ClientSampleId :
FSND-GEP-4-20231031

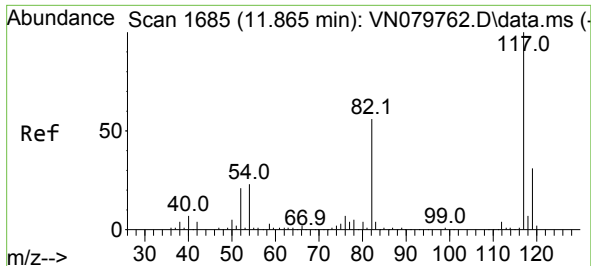
Tgt Ion:129 Resp: 13319
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 48.229 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

Tgt Ion: 95 Resp: 206844
Ion Ratio Lower Upper
95 100
174 74.6 0.0 143.8
176 72.2 0.0 135.8

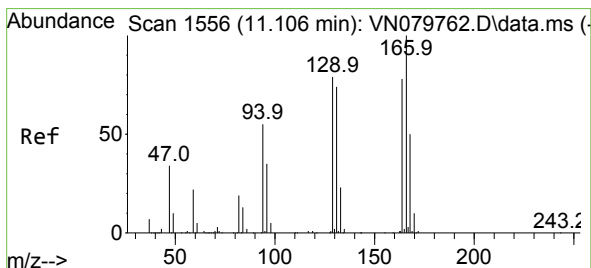
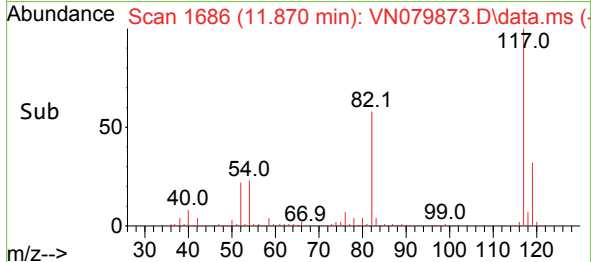
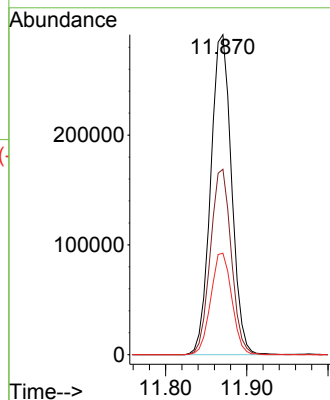
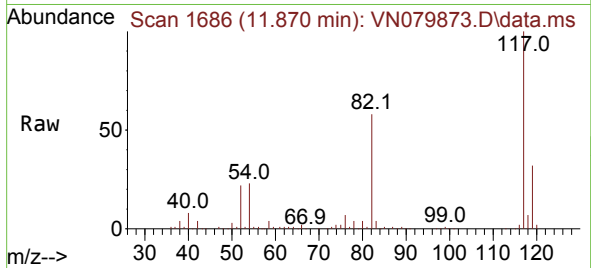




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

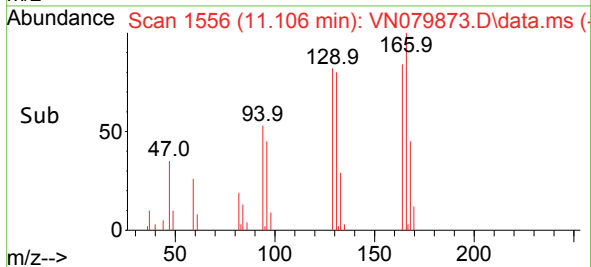
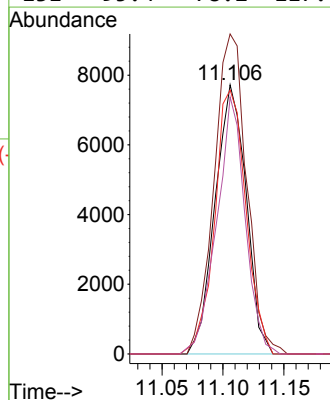
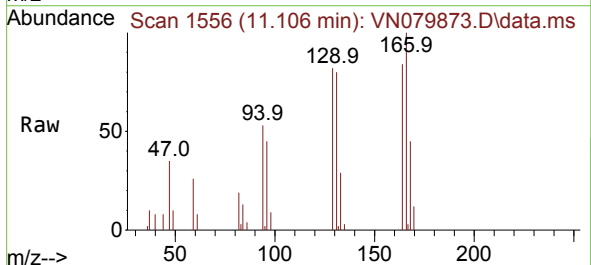
Instrument :
MSVOA_N
ClientSampleId :
FSND-GEP-4-20231031

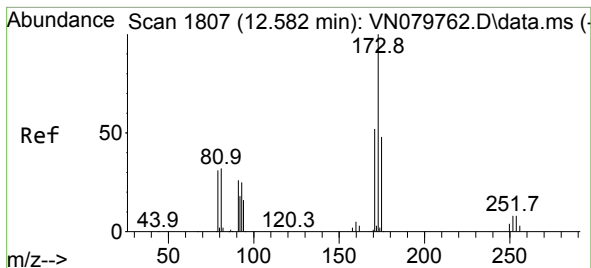
Tgt Ion:117 Resp: 520812
Ion Ratio Lower Upper
117 100
82 57.9 44.0 66.0
119 31.7 25.6 38.4



#64
Tetrachloroethene
Concen: 4.046 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN079873.D
Acq: 04 Nov 2023 03:33

Tgt Ion:164 Resp: 13647
Ion Ratio Lower Upper
164 100
166 118.9 101.4 152.0
129 98.0 82.4 123.6
131 95.4 78.2 117.4





#71

Bromoform

Concen: 0.412 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN079873.D

Acq: 04 Nov 2023 03:33

Instrument :

MSVOA_N

ClientSampleId :

FSND-GEP-4-20231031

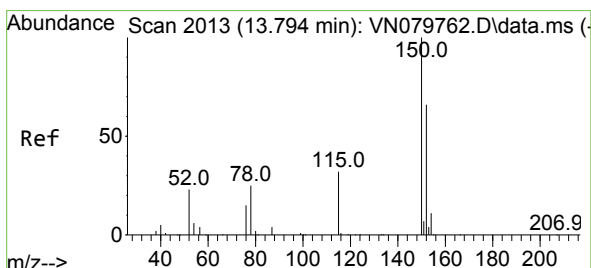
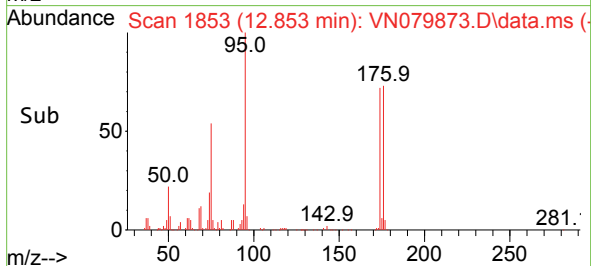
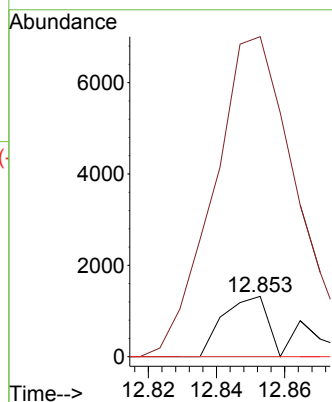
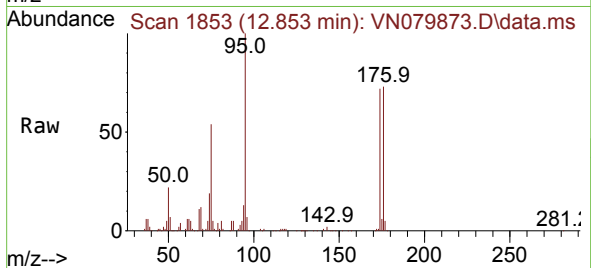
Tgt Ion:173 Resp: 1190

Ion Ratio Lower Upper

173 100

175 805.4 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079873.D

Acq: 04 Nov 2023 03:33

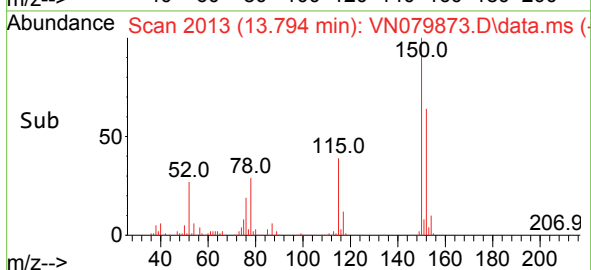
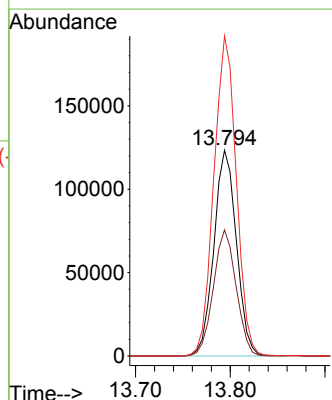
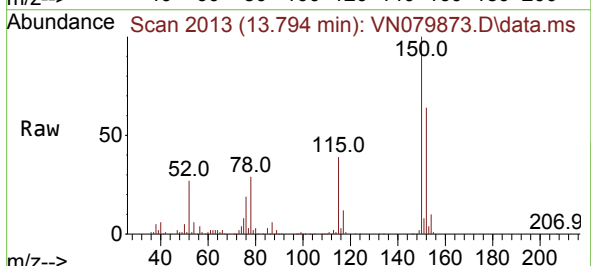
Tgt Ion:152 Resp: 204177

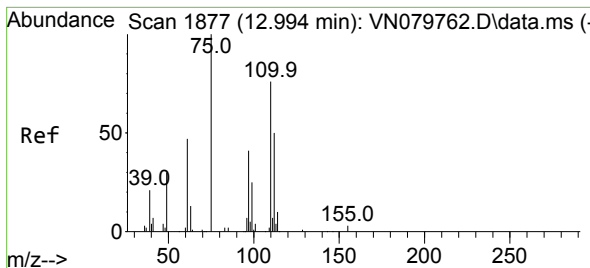
Ion Ratio Lower Upper

152 100

115 61.7 32.3 96.8

150 154.9 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 23.835 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079873.D

Acq: 04 Nov 2023 03:33

Instrument :

MSVOA_N

ClientSampleId :

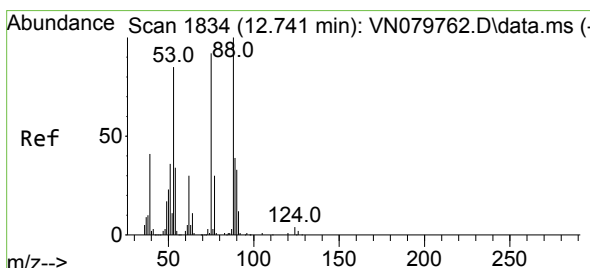
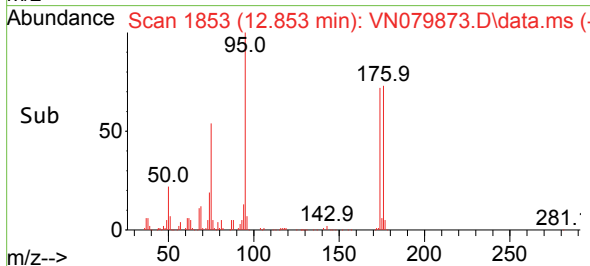
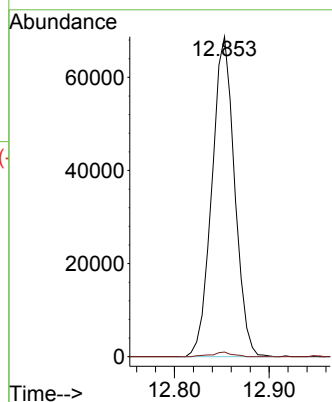
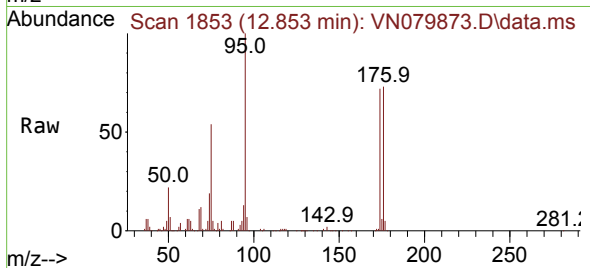
FSND-GEP-4-20231031

Tgt Ion: 75 Resp: 114251

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.849 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.118 min

Lab File: VN079873.D

Acq: 04 Nov 2023 03:33

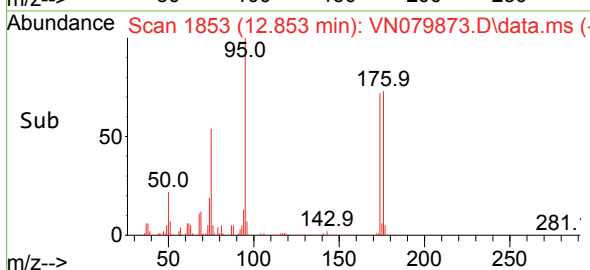
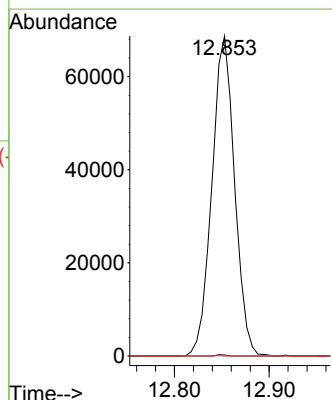
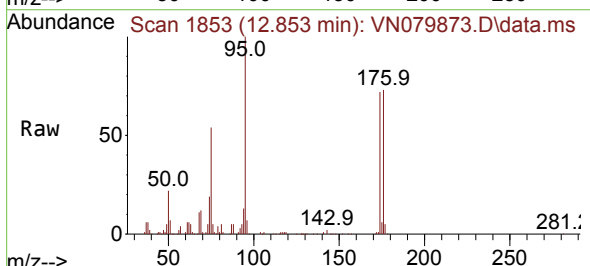
Tgt Ion: 75 Resp: 114251

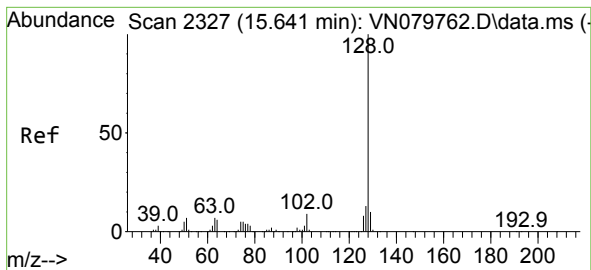
Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.2#

89 0.1 38.8 58.2#





#95

Naphthalene

Concen: 0.221 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN079873.D

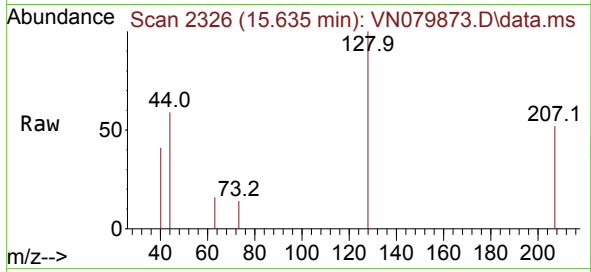
Acq: 04 Nov 2023 03:33

Instrument :

MSVOA_N

ClientSampleId :

FSND-GEP-4-20231031



Tgt Ion:128 Resp: 2373

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#

