

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032023\
 Data File : VN077065.D
 Acq On : 20 Mar 2023 13:53
 Operator : JC\MD
 Sample : 01904-09DL 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D1-20230313DL

Quant Time: Mar 21 05:35:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 20 08:50:30 2023
 Response via : Initial Calibration

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

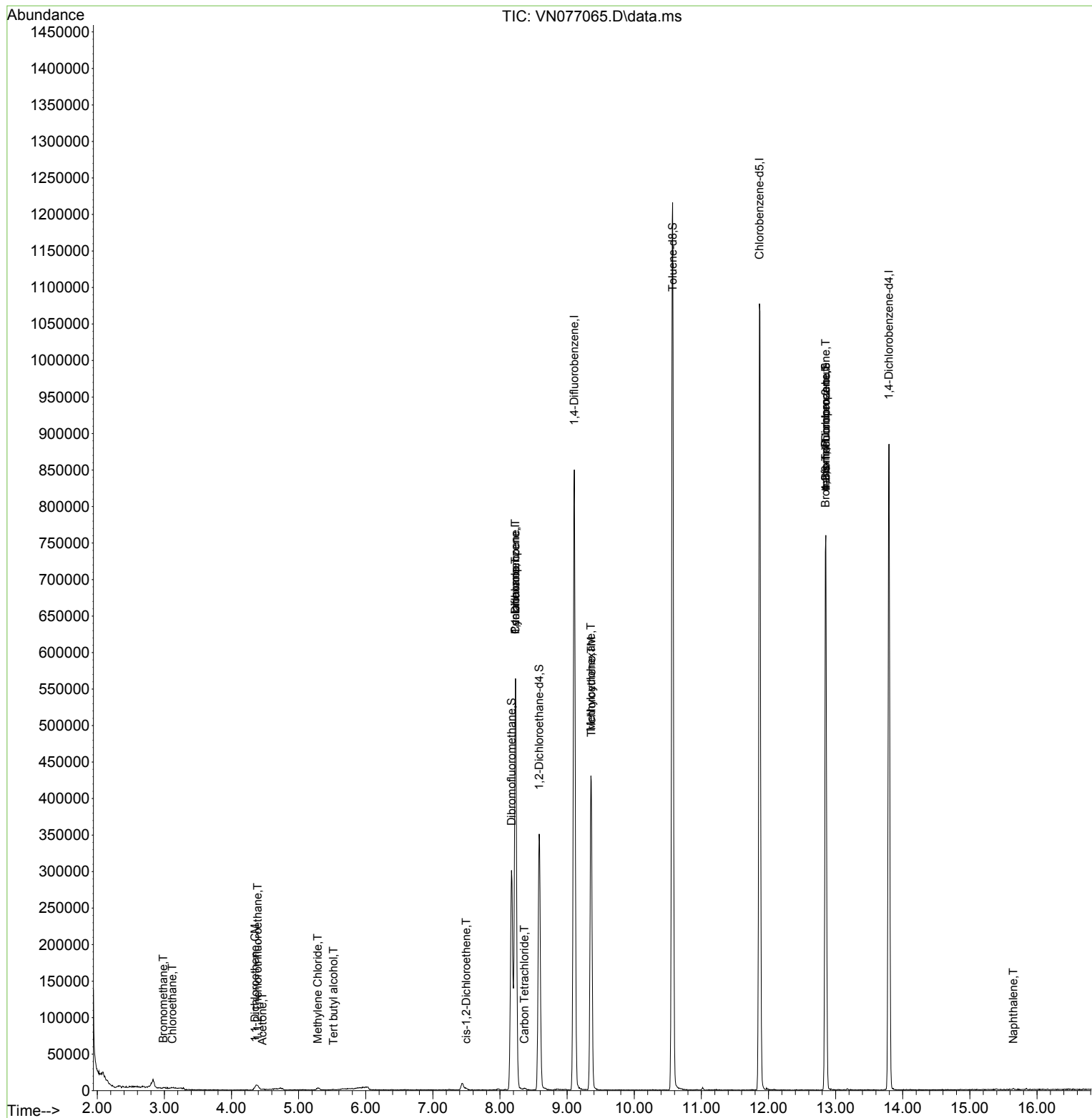
Internal Standards						
1) Pentafluorobenzene	8.230	168	386117	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	707556	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	624641	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	228087	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	288812	46.828	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.660%
35) Dibromofluoromethane	8.172	113	222387	44.880	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	89.760%
50) Toluene-d8	10.571	98	857040	48.420	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.840%
62) 4-Bromofluorobenzene	12.854	95	276947	44.279	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	88.560%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	191	Below Cal	#	42
5) Bromomethane	2.984	94	692	0.244	ug/l #	72
6) Chloroethane	3.119	64	943	0.355	ug/l #	42
9) 1,1,2-Trichlorotrifluo...	4.389	101	4054	0.791	ug/l	91
11) Tert butyl alcohol	5.519	59	322	0.358	ug/l #	72
12) 1,1-Dichloroethene	4.348	96	1276	0.272	ug/l #	66
16) Acetone	4.460	43	1337	0.487	ug/l #	43
20) Methylene Chloride	5.284	84	2201	0.369	ug/l #	83
27) cis-1,2-Dichloroethene	7.495	96	1323	0.227	ug/l	49
31) Cyclohexane	8.230	56	10049	0.996	ug/l #	4
36) 1,1-Dichloropropene	8.230	75	34916	4.511	ug/l #	52
38) Carbon Tetrachloride	8.366	117	2032	0.270	ug/l	92
39) Methylcyclohexane	9.354	83	2376	0.262	ug/l #	1
44) Trichloroethene	9.360	130	152411	28.269	ug/l	99
71) Bromoform	12.848	173	1282	0.356	ug/l #	28
76) 1,2,3-Trichloropropane	12.854	75	146568	24.843	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	146568	68.382	ug/l #	10
95) Naphthalene	15.648	128	1876	2.031	ug/l #	78

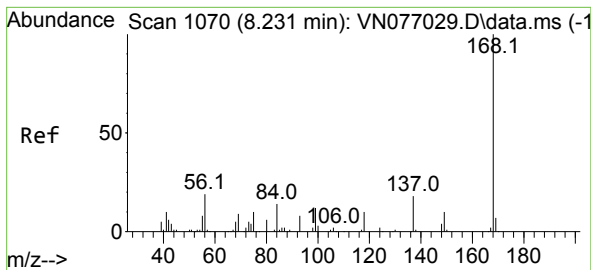
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN077065.D

Acq: 20 Mar 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

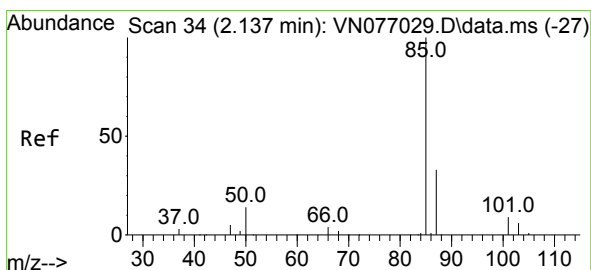
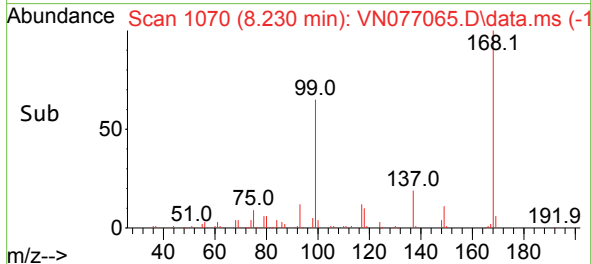
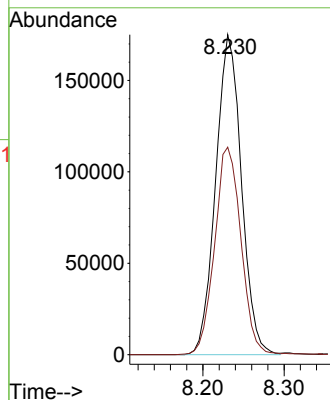
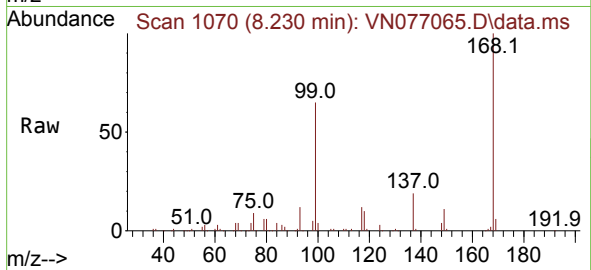
RE139D1-20230313DL

Tgt Ion:168 Resp: 386117

Ion Ratio Lower Upper

168 100

99 64.7 53.9 80.9



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.137 min Scan# 34

Delta R.T. -0.000 min

Lab File: VN077065.D

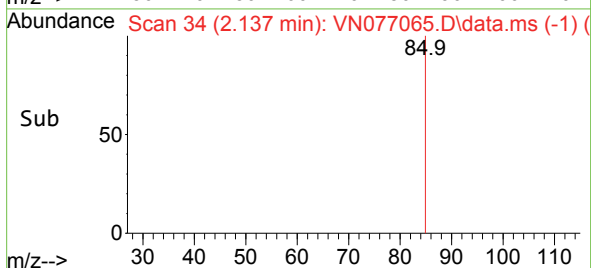
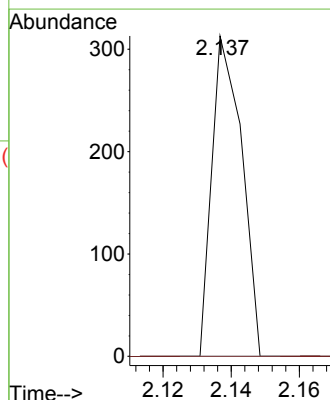
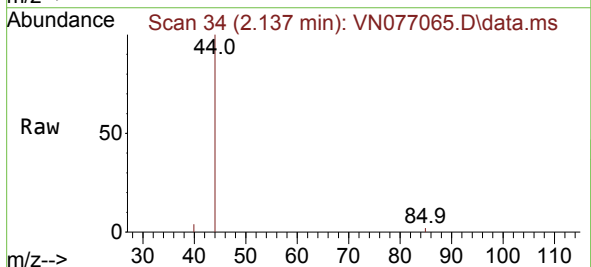
Acq: 20 Mar 2023 13:53

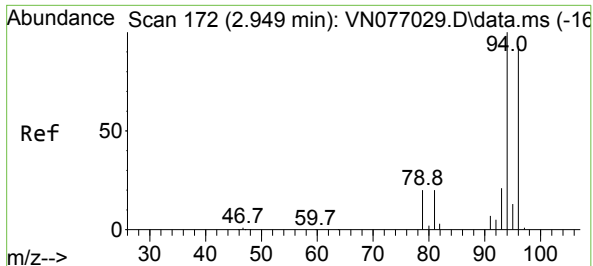
Tgt Ion: 85 Resp: 191

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.2#

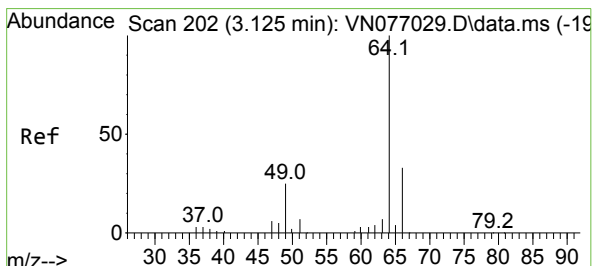
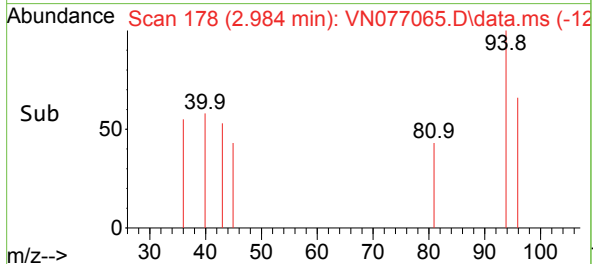
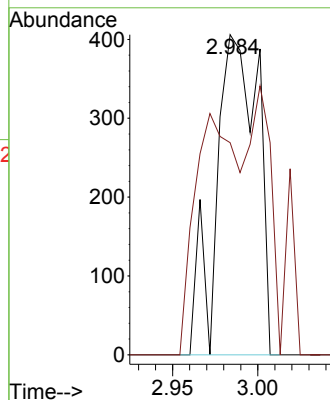
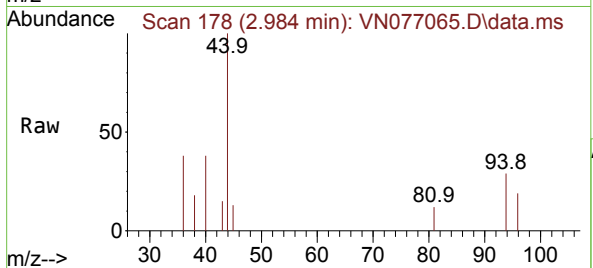




#5
Bromomethane
Concen: 0.244 ug/l
RT: 2.984 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

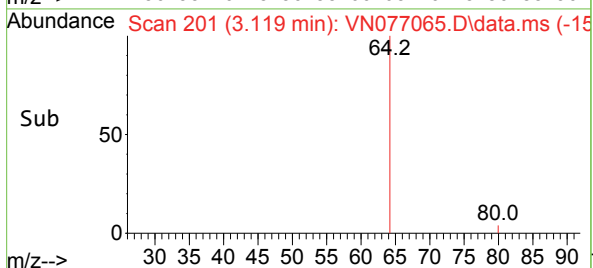
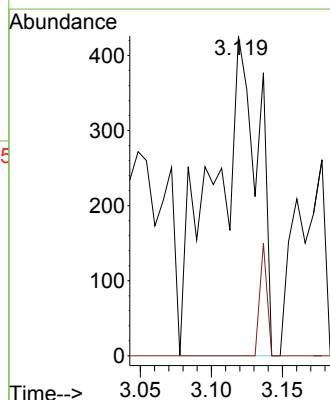
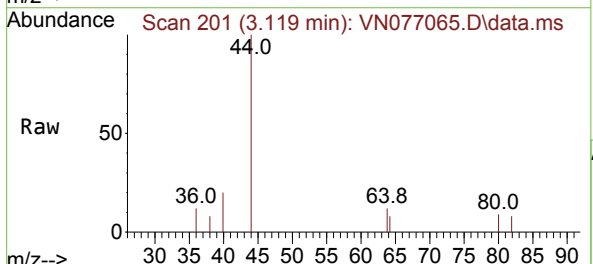
Instrument :
MSVOA_N
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RE139D1-20230313DL

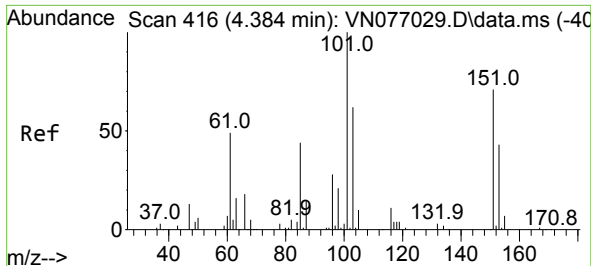
Tgt Ion: 94 Resp: 692
Ion Ratio Lower Upper
94 100
96 66.3 74.1 111.1#



#6
Chloroethane
Concen: 0.355 ug/l
RT: 3.119 min Scan# 201
Delta R.T. -0.006 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

Tgt Ion: 64 Resp: 943
Ion Ratio Lower Upper
64 100
66 0.0 26.3 39.5#

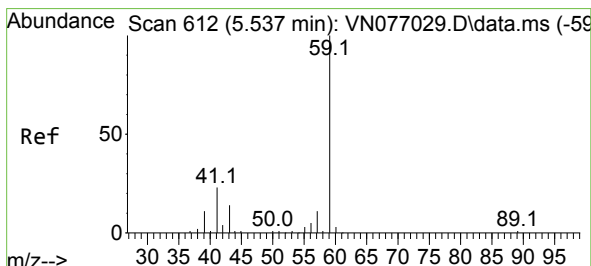
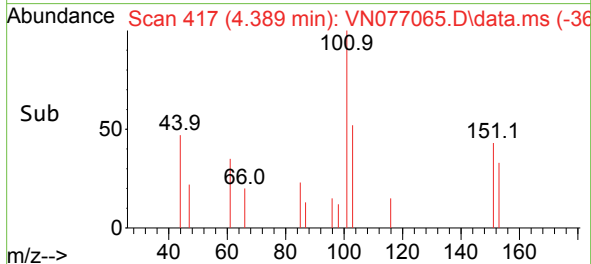
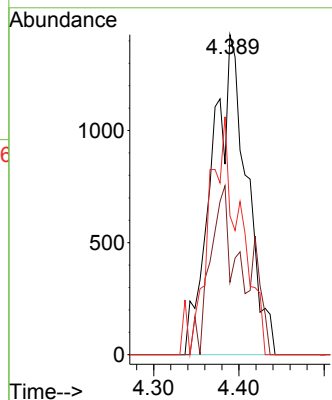
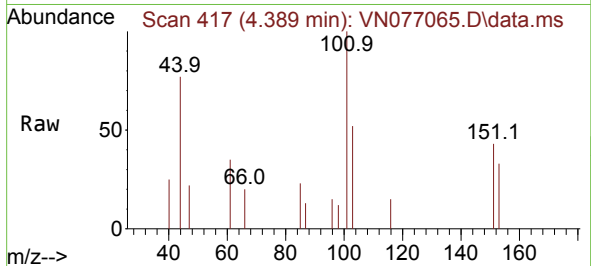




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.791 ug/l
RT: 4.389 min Scan# 416
Delta R.T. 0.005 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

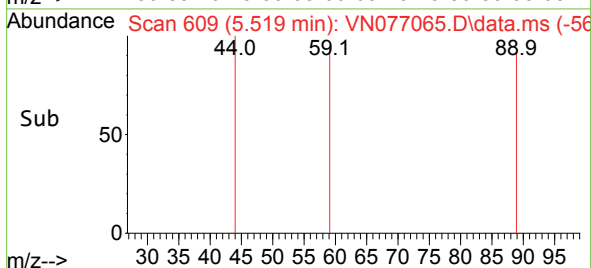
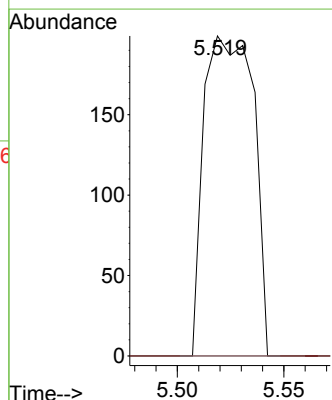
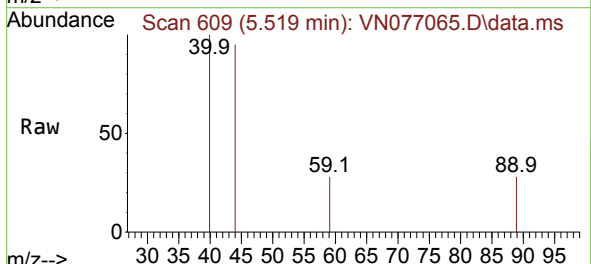
Instrument :
MSVOA_N
ClientSampleId :
RE139D1-20230313DL

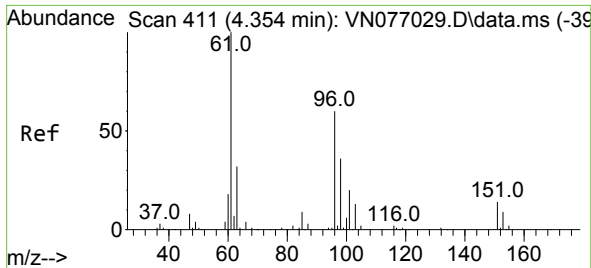
Tgt Ion:101 Resp: 4054
Ion Ratio Lower Upper
101 100
85 38.3 36.6 55.0
151 65.5 56.9 85.3



#11
Tert butyl alcohol
Concen: 0.358 ug/l
RT: 5.519 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

Tgt Ion: 59 Resp: 322
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

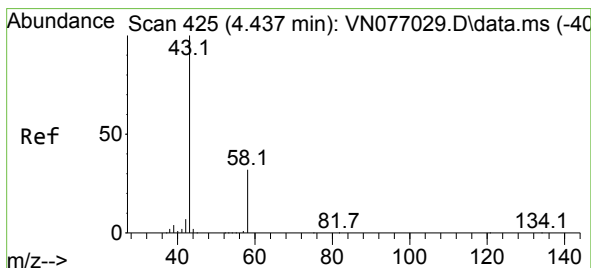
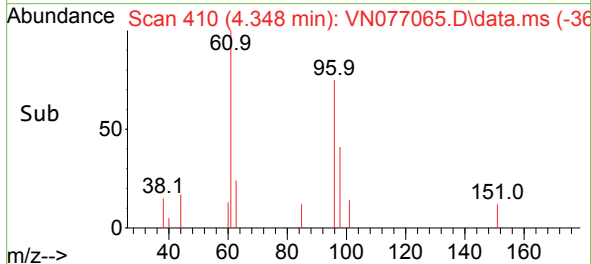
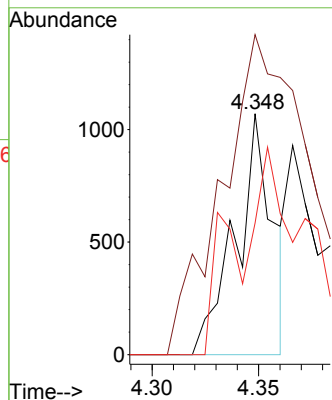
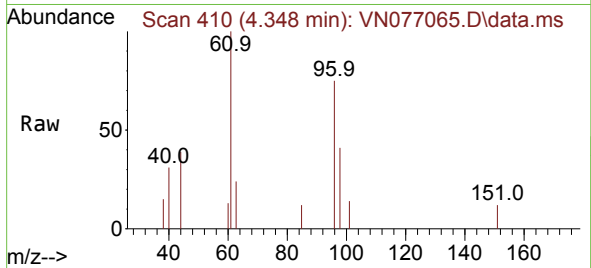




#12
1,1-Dichloroethene
Concen: 0.272 ug/l
RT: 4.348 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

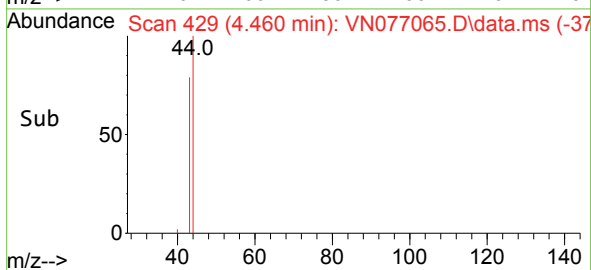
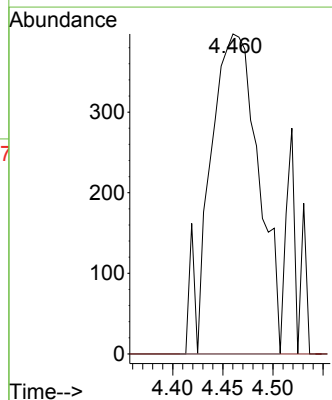
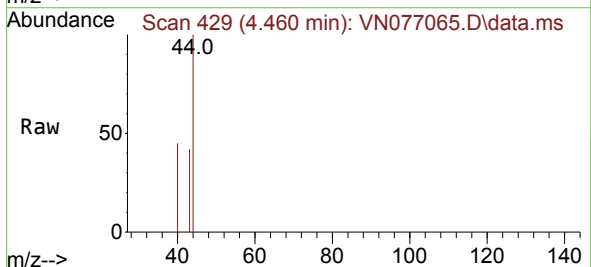
Instrument :
MSVOA_N
ClientSampleId :
RE139D1-20230313DL

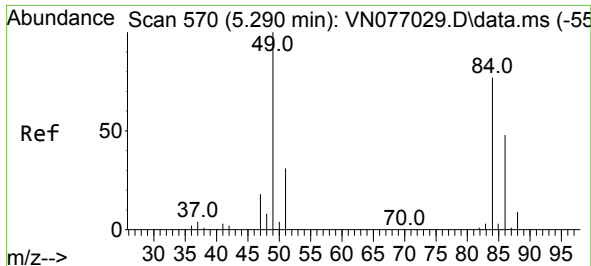
Tgt Ion: 96 Resp: 1276
Ion Ratio Lower Upper
96 100
61 108.4 133.8 200.8#
98 54.6 48.6 72.8



#16
Acetone
Concen: 0.487 ug/l
RT: 4.460 min Scan# 429
Delta R.T. 0.023 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

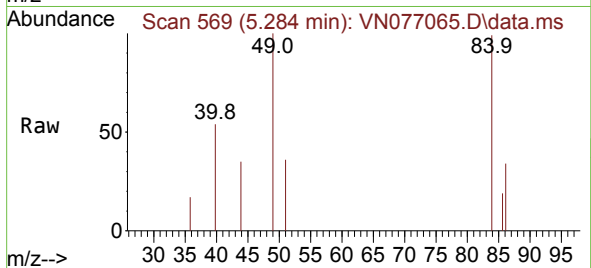
Tgt Ion: 43 Resp: 1337
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.0#





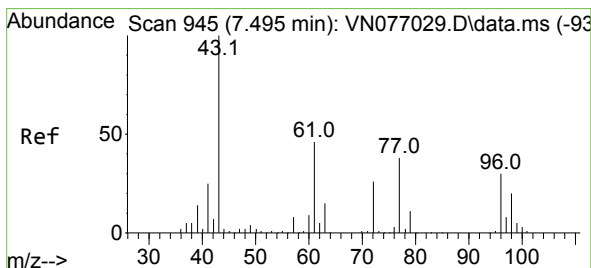
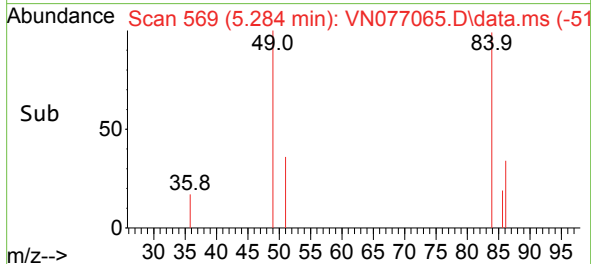
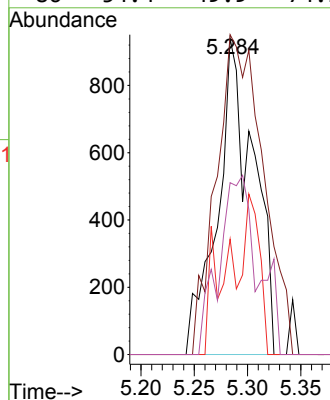
#20
Methylene Chloride
Concen: 0.369 ug/l
RT: 5.284 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

Instrument :
MSVOA_N
ClientSampleId :
RE139D1-20230313DL



Tgt Ion: 84 Resp: 2201

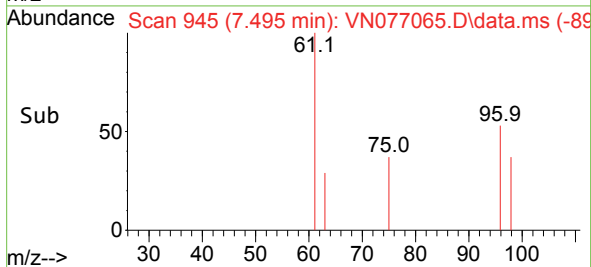
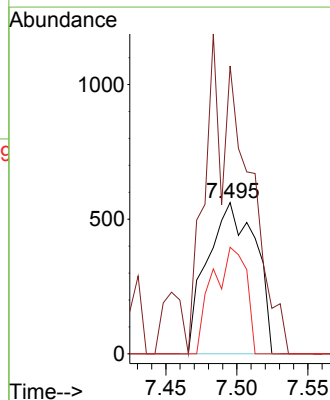
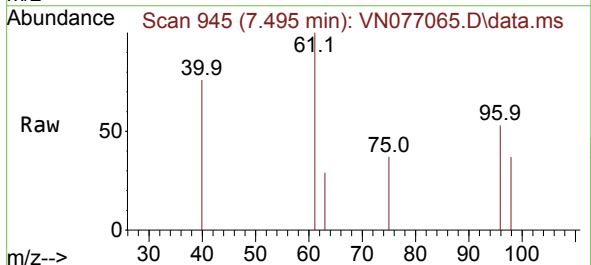
Ion	Ratio	Lower	Upper
84	100		
49	101.3	103.8	155.6#
51	36.5	32.3	48.5
86	54.4	49.9	74.9

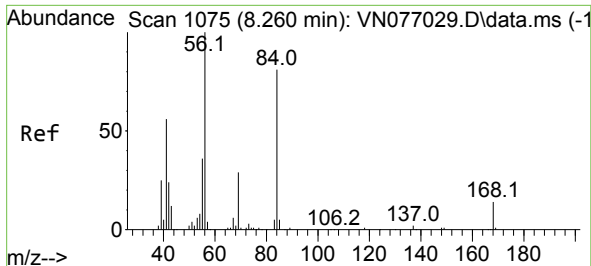


#27
cis-1,2-Dichloroethene
Concen: 0.227 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.000 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

Tgt Ion: 96 Resp: 1323

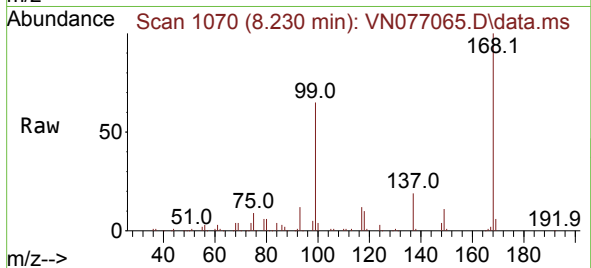
Ion	Ratio	Lower	Upper
96	100		
61	74.5	0.0	315.4
98	49.5	0.0	128.6



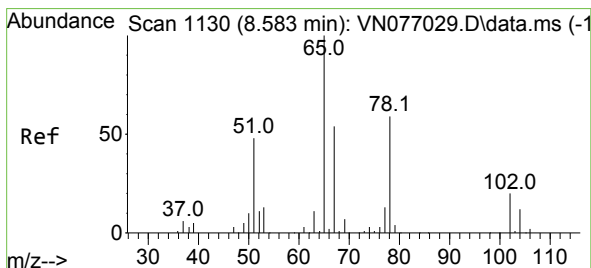
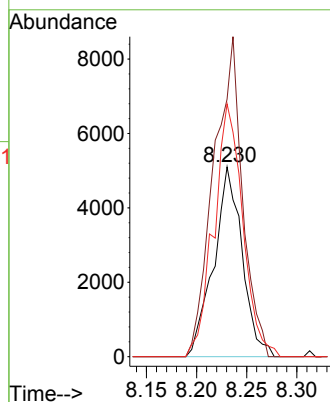
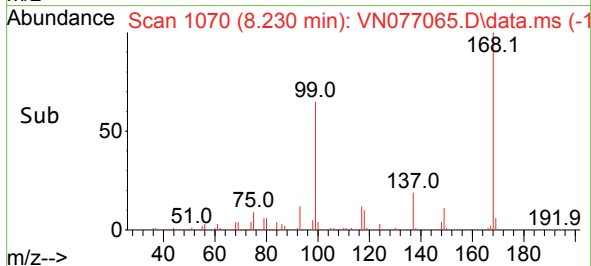


#31
Cyclohexane
Concen: 0.996 ug/l
RT: 8.230 min Scan# 1075
Delta R.T. -0.030 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

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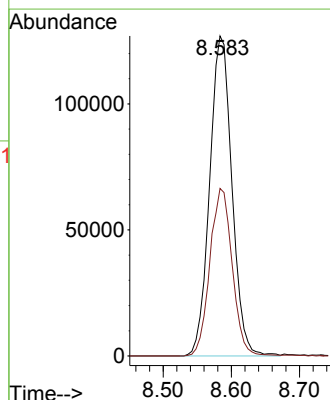
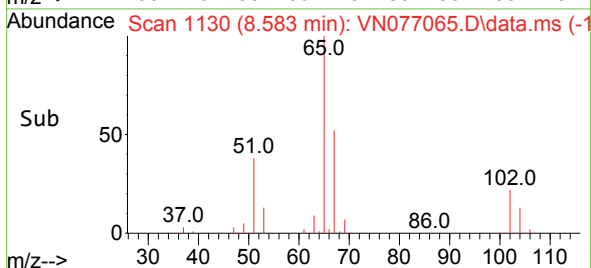
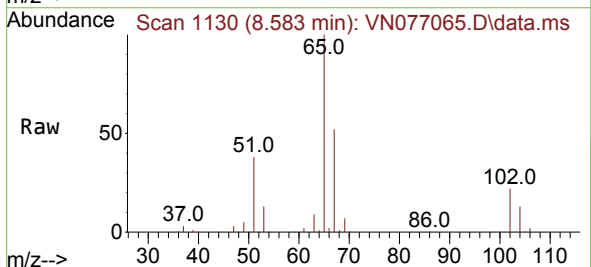


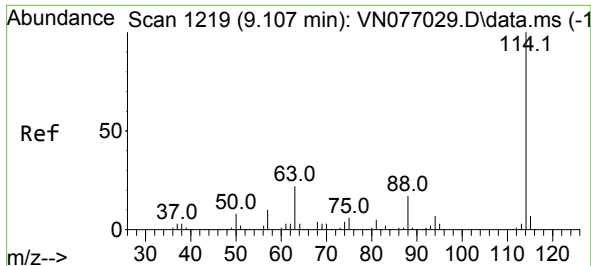
Tgt Ion: 56 Resp: 10049
Ion Ratio Lower Upper
56 100
69 135.7 22.8 34.2#
84 133.2 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 46.828 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

Tgt Ion: 65 Resp: 288812
Ion Ratio Lower Upper
65 100
67 52.7 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077065.D

Acq: 20 Mar 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20230313DL

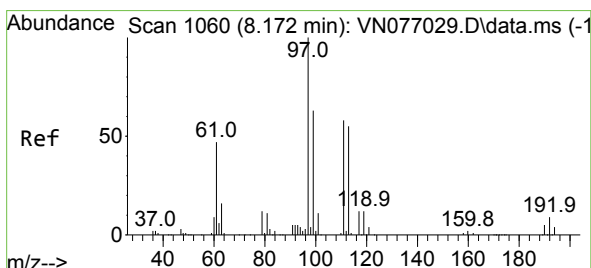
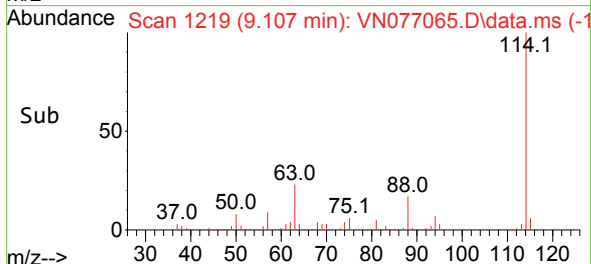
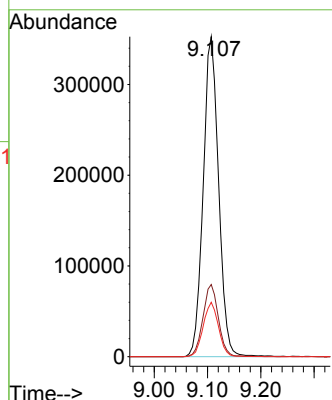
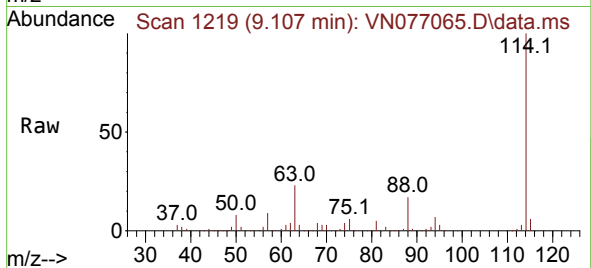
Tgt Ion:114 Resp: 707556

Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.6

88 17.0 0.0 33.8



#35

Dibromofluoromethane

Concen: 44.880 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077065.D

Acq: 20 Mar 2023 13:53

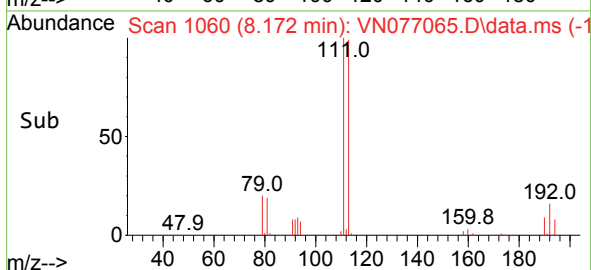
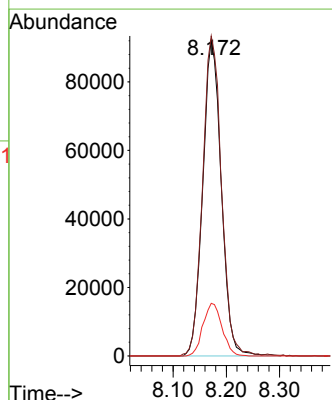
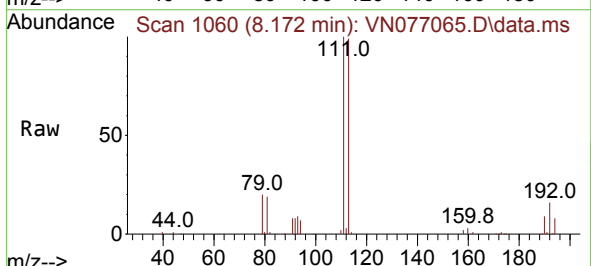
Tgt Ion:113 Resp: 222387

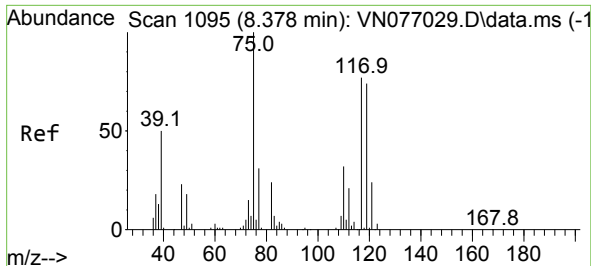
Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.2

192 17.2 13.0 19.6





#36

1,1-Dichloropropene

Concen: 4.511 ug/l

RT: 8.230 min Scan# 1095

Delta R.T. -0.147 min

Lab File: VN077065.D

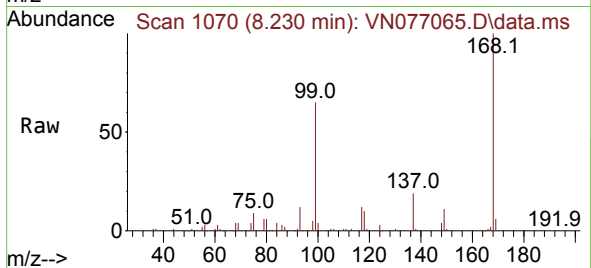
Acq: 20 Mar 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20230313DL



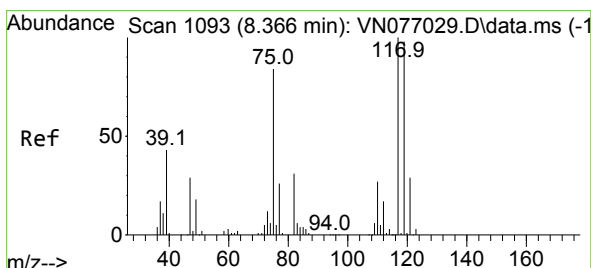
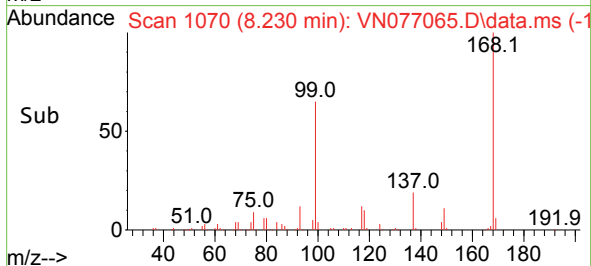
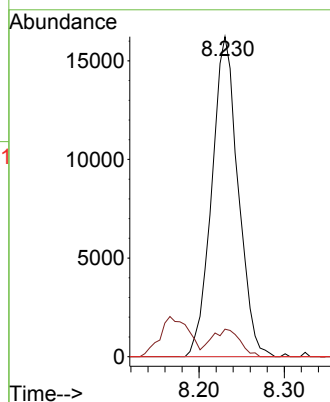
Tgt Ion: 75 Resp: 34916

Ion Ratio Lower Upper

75 100

110 9.3 15.9 47.7#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 0.270 ug/l

RT: 8.366 min Scan# 1093

Delta R.T. -0.000 min

Lab File: VN077065.D

Acq: 20 Mar 2023 13:53

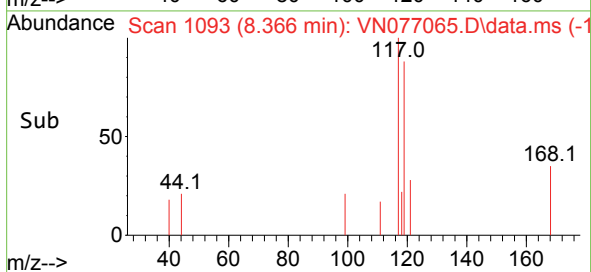
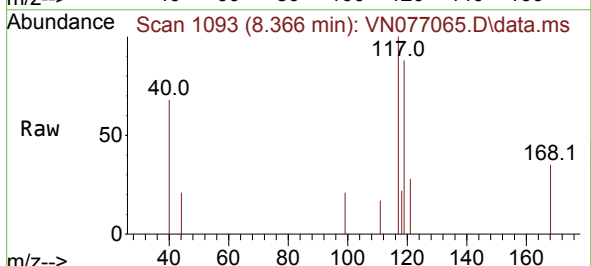
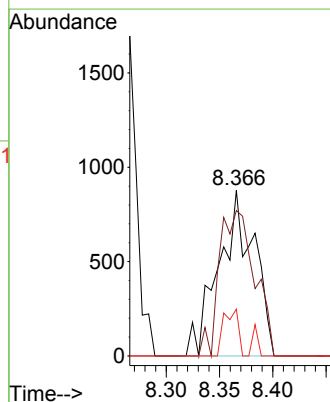
Tgt Ion: 117 Resp: 2032

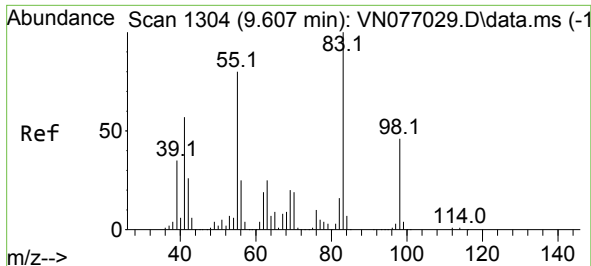
Ion Ratio Lower Upper

117 100

119 87.8 78.2 117.2

121 28.2 23.2 34.8





#39

Methylcyclohexane

Concen: 0.262 ug/l

RT: 9.354 min Scan# 11

Delta R.T. -0.253 min

Lab File: VN077065.D

Acq: 20 Mar 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20230313DL

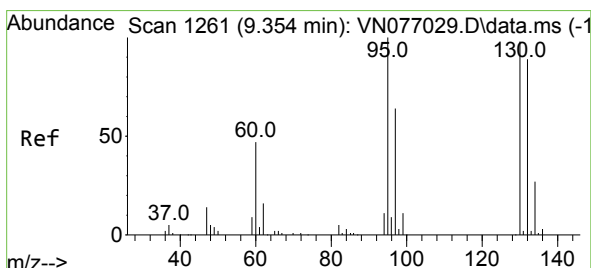
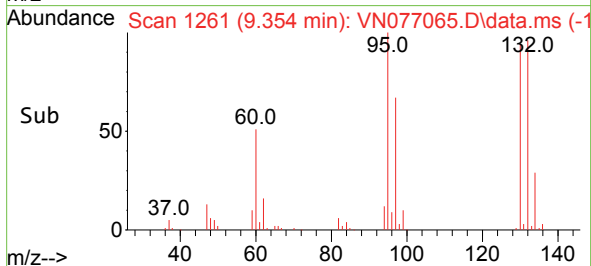
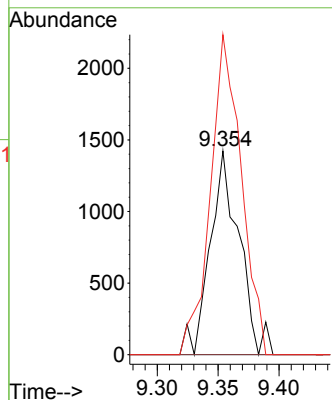
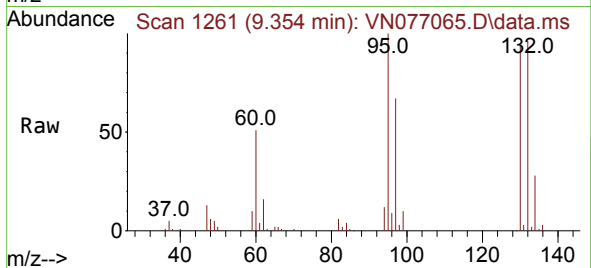
Tgt Ion: 83 Resp: 2376

Ion Ratio Lower Upper

83 100

55 0.0 63.8 95.8#

98 157.1 37.1 55.7#



#44

Trichloroethene

Concen: 28.269 ug/l

RT: 9.360 min Scan# 1262

Delta R.T. 0.006 min

Lab File: VN077065.D

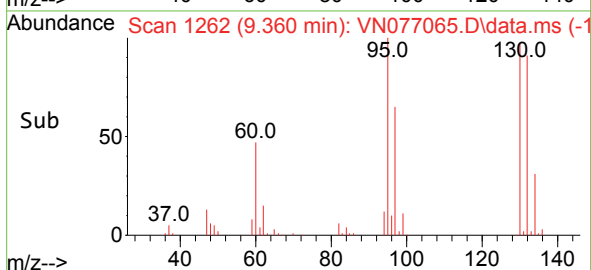
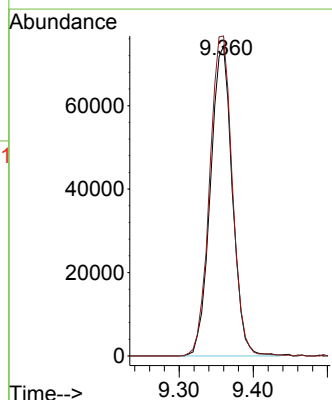
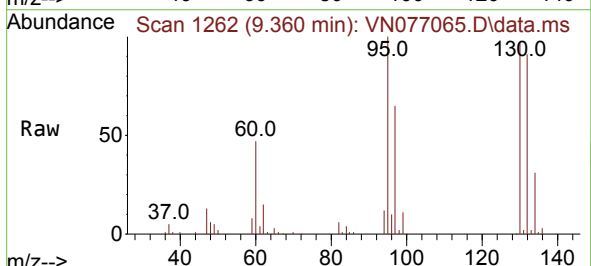
Acq: 20 Mar 2023 13:53

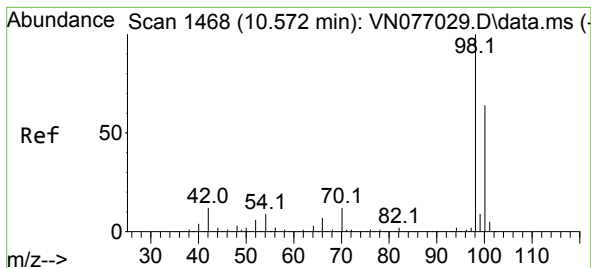
Tgt Ion:130 Resp: 152411

Ion Ratio Lower Upper

130 100

95 103.3 0.0 204.4





#50

Toluene-d8

Concen: 48.420 ug/l

RT: 10.571 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VN077065.D

Acq: 20 Mar 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

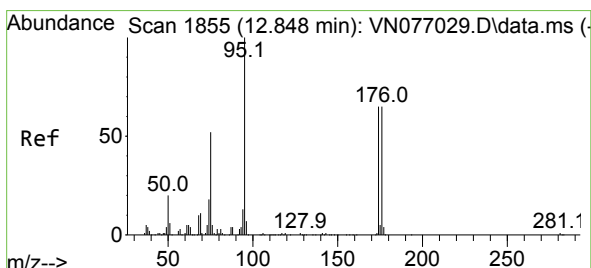
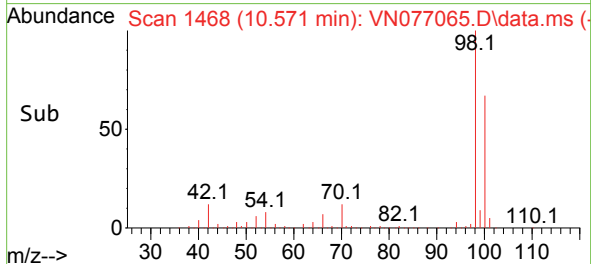
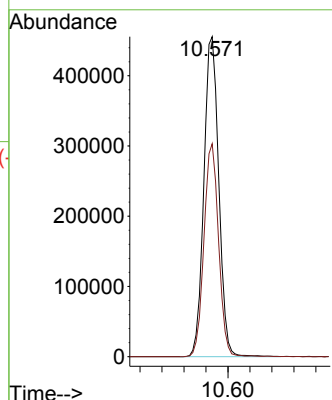
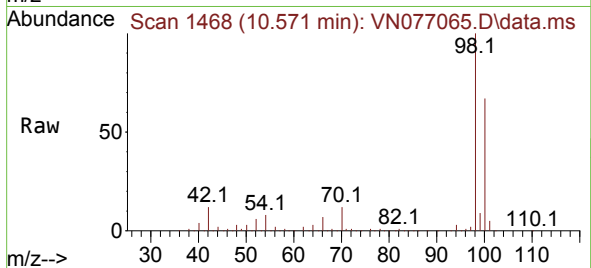
RE139D1-20230313DL

Tgt Ion: 98 Resp: 857040

Ion Ratio Lower Upper

98 100

100 65.1 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 44.279 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.006 min

Lab File: VN077065.D

Acq: 20 Mar 2023 13:53

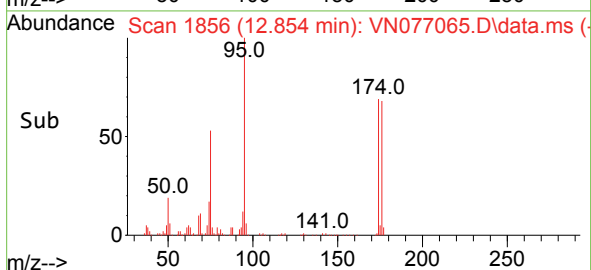
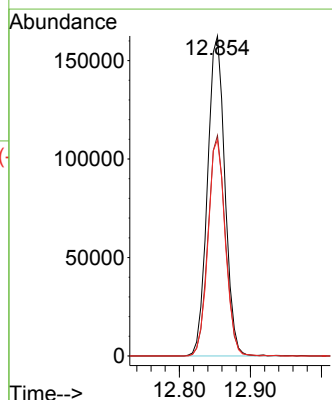
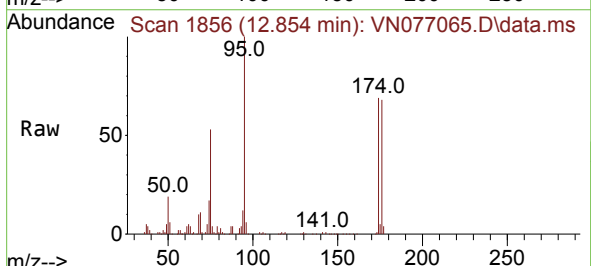
Tgt Ion: 95 Resp: 276947

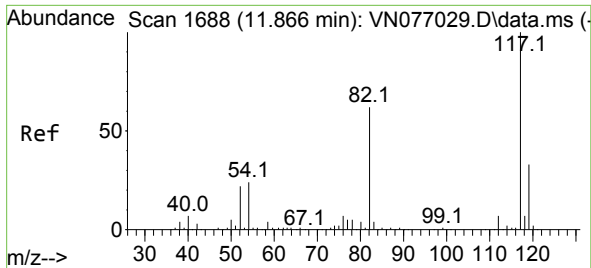
Ion Ratio Lower Upper

95 100

174 68.3 0.0 136.6

176 67.0 0.0 130.0

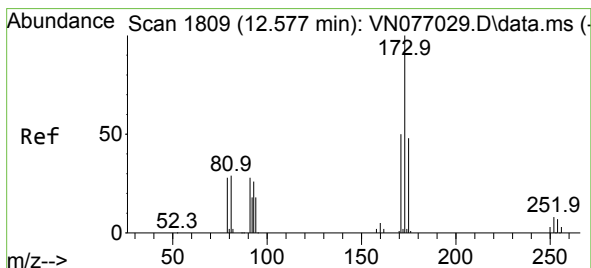
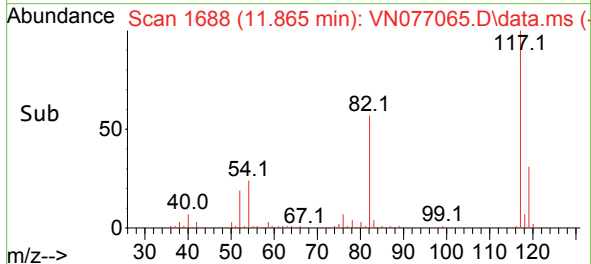
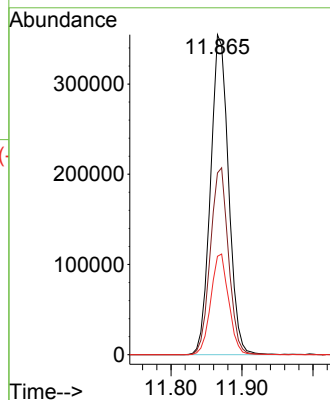
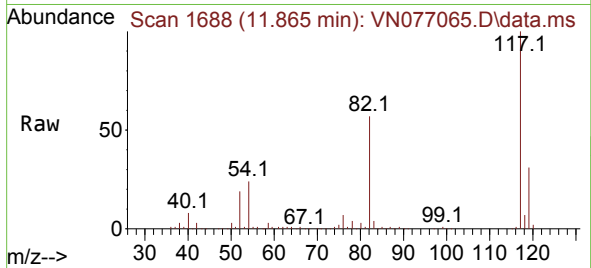




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

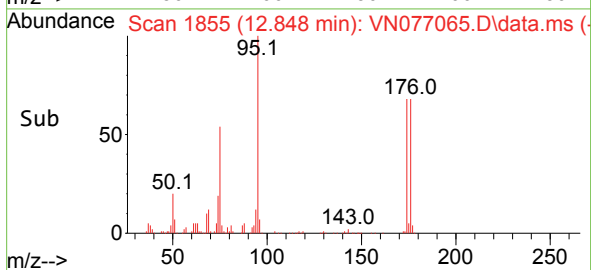
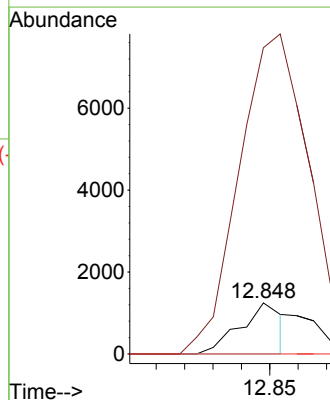
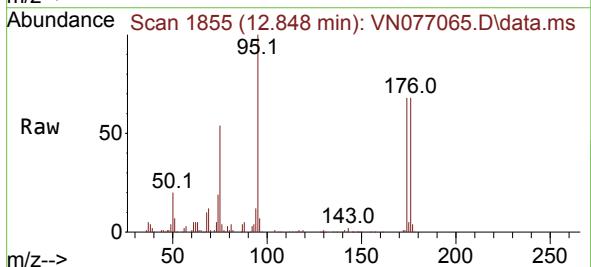
Instrument :
MSVOA_N
ClientSampleId :
RE139D1-20230313DL

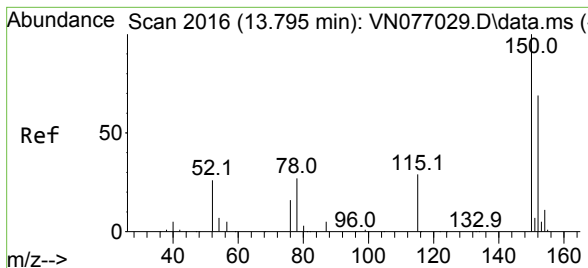
Tgt Ion:117 Resp: 624641
Ion Ratio Lower Upper
117 100
82 56.8 49.4 74.0
119 30.8 26.5 39.7



#71
Bromoform
Concen: 0.356 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.271 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

Tgt Ion:173 Resp: 1282
Ion Ratio Lower Upper
173 100
175 0.0 24.5 73.5#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN077065.D

Acq: 20 Mar 2023 13:53

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20230313DL

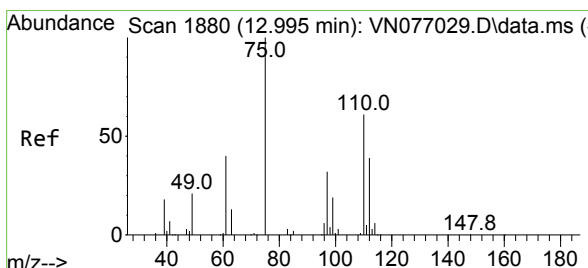
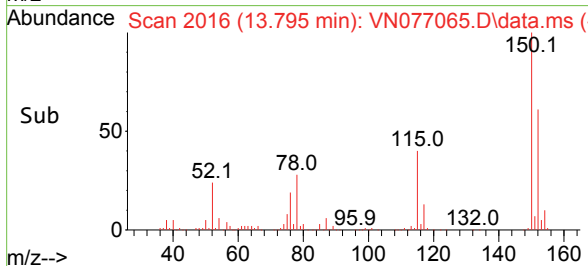
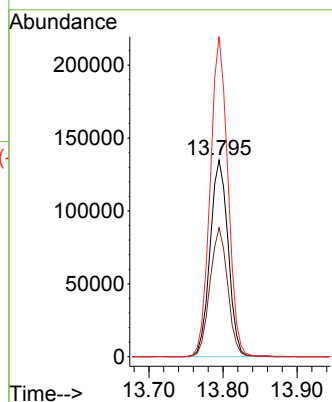
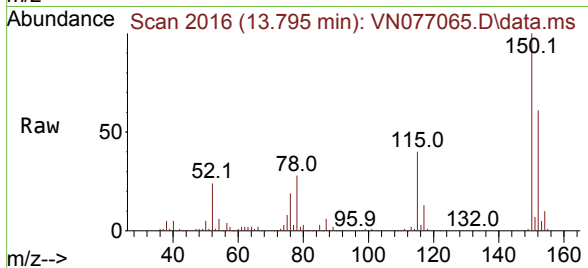
Tgt Ion:152 Resp: 228087

Ion Ratio Lower Upper

152 100

115 64.5 31.9 95.7

150 159.8 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 24.843 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077065.D

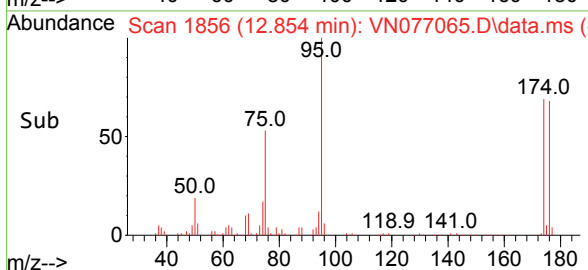
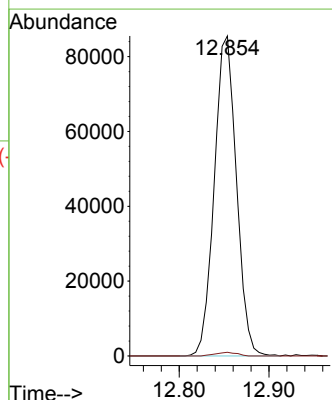
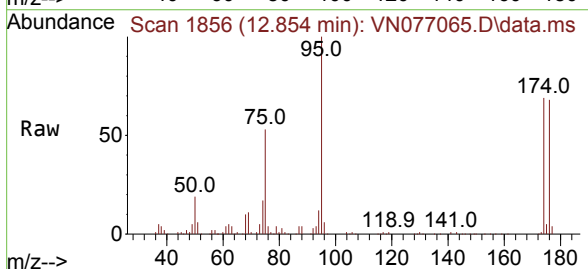
Acq: 20 Mar 2023 13:53

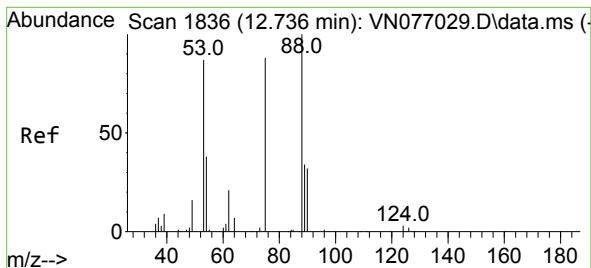
Tgt Ion: 75 Resp: 146568

Ion Ratio Lower Upper

75 100

77 1.1 107.3 322.0#

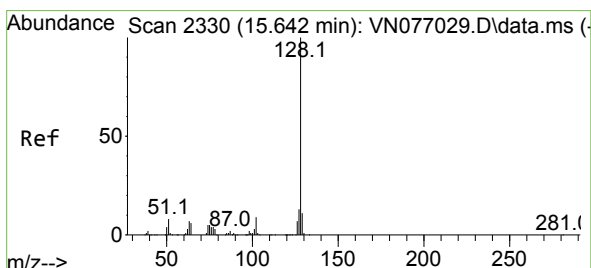
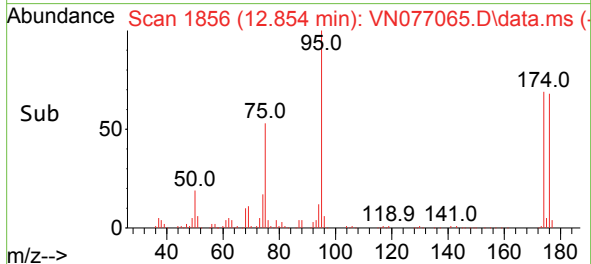
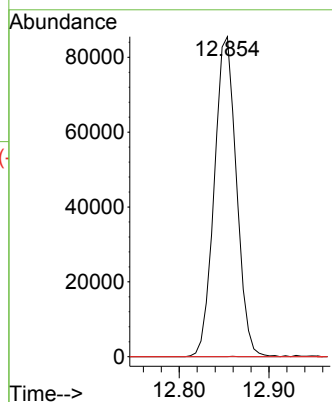
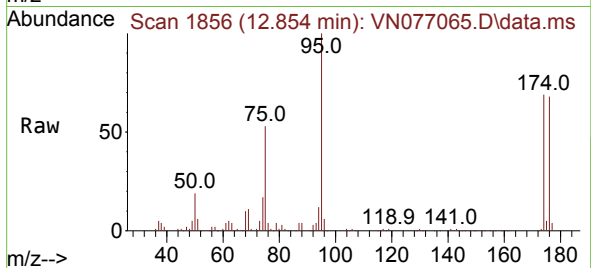




#81
trans-1,4-Dichloro-2-butene
Concen: 68.382 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

Instrument :
MSVOA_N
ClientSampleId :
RE139D1-20230313DL

Tgt Ion: 75 Resp: 146568
Ion Ratio Lower Upper
75 100
53 0.0 80.8 121.2#
89 0.0 34.2 51.4#



#95
Naphthalene
Concen: 2.031 ug/l
RT: 15.648 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN077065.D
Acq: 20 Mar 2023 13:53

Tgt Ion: 128 Resp: 1876
Ion Ratio Lower Upper
128 100
127 3.3 10.0 15.0#
129 3.4 8.6 13.0#

