

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121522\
 Data File : VN075813.D
 Acq On : 15 Dec 2022 13:24
 Operator : JC\MD
 Sample : N5990-11DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP120722-2DL

Quant Time: Dec 16 03:08:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

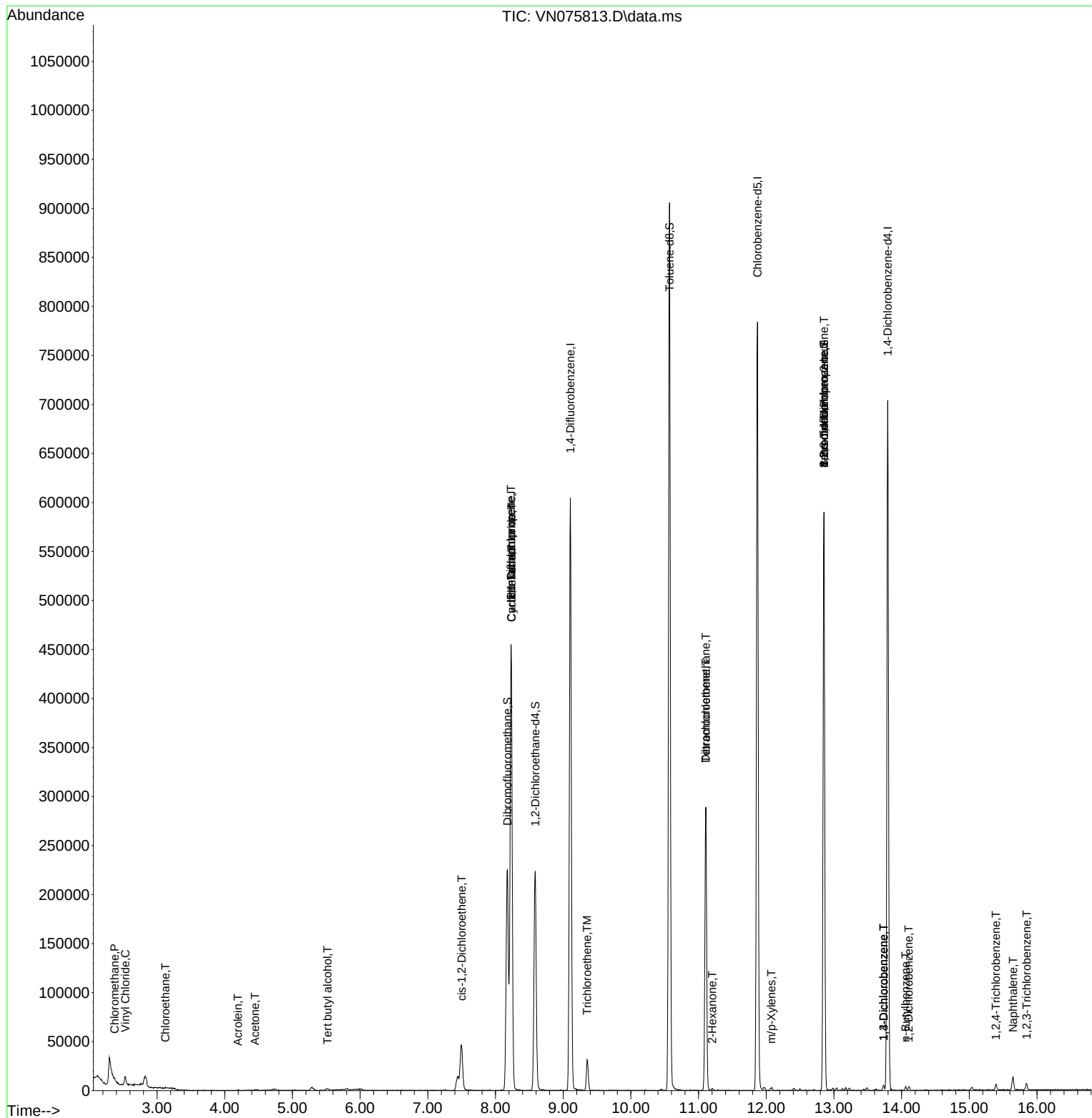
Internal Standards						
1) Pentafluorobenzene	8.230	168	358261	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	557605	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	480568	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	196828	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	183539	47.091	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.180%
35) Dibromofluoromethane	8.177	113	163480	47.342	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.680%
50) Toluene-d8	10.571	98	637036	49.341	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.680%
62) 4-Bromofluorobenzene	12.853	95	194867	45.569	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	91.140%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	972	0.307	ug/l #	40
4) Vinyl Chloride	2.530	62	8705	2.307	ug/l	95
6) Chloroethane	3.124	64	928	0.332	ug/l #	44
11) Tert butyl alcohol	5.518	59	1654	2.999	ug/l #	72
13) Acrolein	4.195	56	242	0.358	ug/l #	60
16) Acetone	4.448	43	308	0.229	ug/l #	30
27) cis-1,2-Dichloroethene	7.500	96	31520	7.579	ug/l	90
31) Cyclohexane	8.236	56	6336	1.135	ug/l #	17
36) 1,1-Dichloropropene	8.230	75	26004	5.669	ug/l #	50
38) Carbon Tetrachloride	8.236	117	35625	6.939	ug/l #	16
44) Trichloroethene	9.353	130	11825	2.966	ug/l	100
59) 2-Hexanone	11.200	43	1534	0.572	ug/l	86
60) Dibromochloromethane	11.106	129	62671	15.576	ug/l #	11
64) Tetrachloroethene	11.106	164	68508	20.259	ug/l	96
68) m/p-Xylenes	12.076	106	1363	0.207	ug/l	89
71) Bromoform	12.853	173	1531	0.576	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	99171	24.995	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	99171	89.971	ug/l #	12
87) 1,3-Dichlorobenzene	13.735	146	1992	0.300	ug/l	85
88) 1,4-Dichlorobenzene	13.735	146	1992	0.293	ug/l	86
89) n-Butylbenzene	14.059	91	2350	0.241	ug/l	91
91) 1,2-Dichlorobenzene	14.106	146	2091	0.319	ug/l	90
93) 1,2,4-Trichlorobenzene	15.394	180	2366	0.730	ug/l	99
95) Naphthalene	15.647	128	13871	3.416	ug/l	97
96) 1,2,3-Trichlorobenzene	15.847	180	2789	0.920	ug/l	97

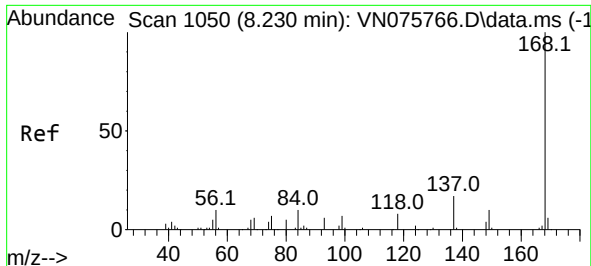
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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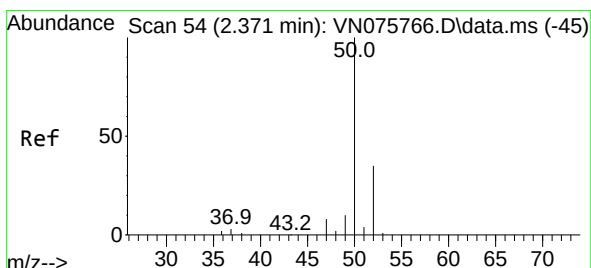
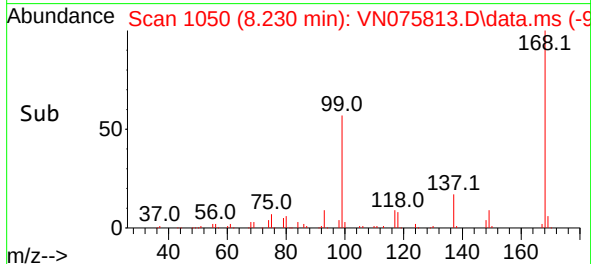
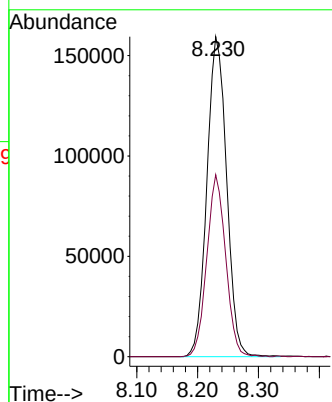
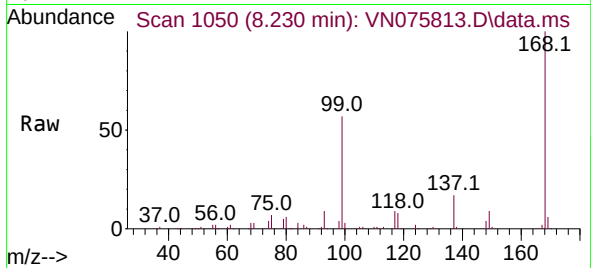




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

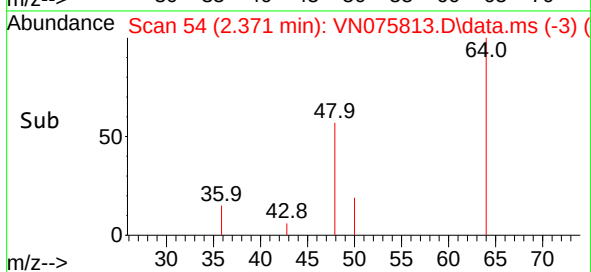
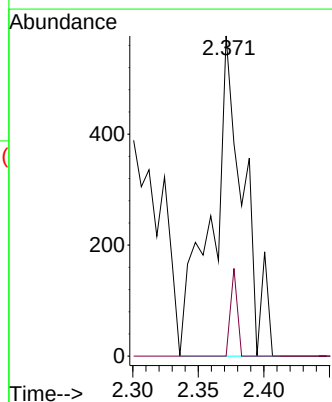
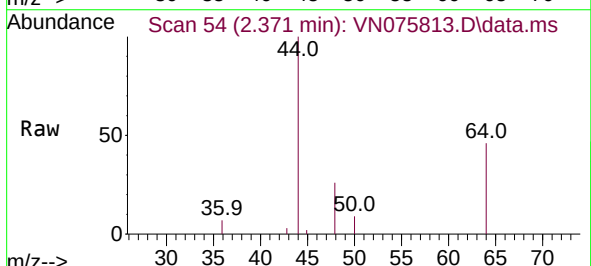
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2DL

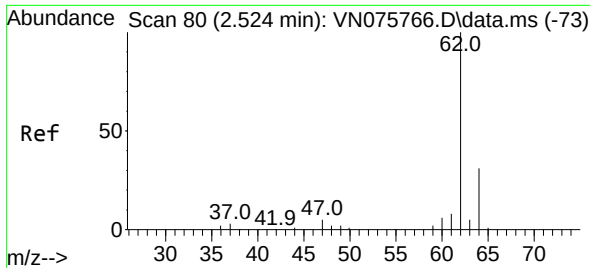
Tgt Ion:168 Resp: 358261
Ion Ratio Lower Upper
168 100
99 56.8 44.2 66.4



#3
Chloromethane
Concen: 0.307 ug/l
RT: 2.371 min Scan# 54
Delta R.T. 0.000 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

Tgt Ion: 50 Resp: 972
Ion Ratio Lower Upper
50 100
52 0.0 27.7 41.5#

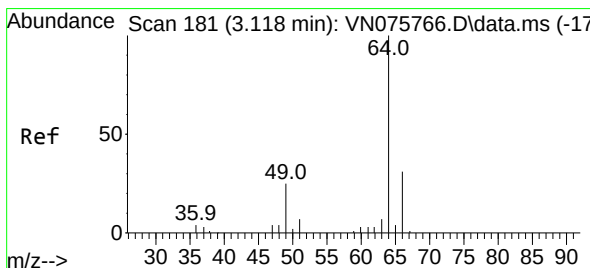
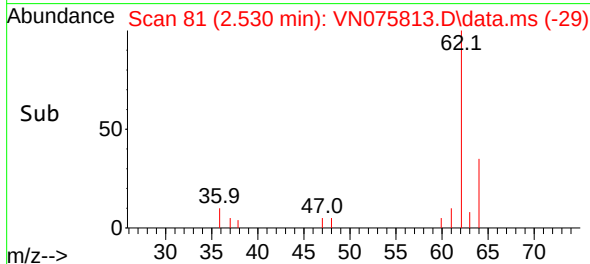
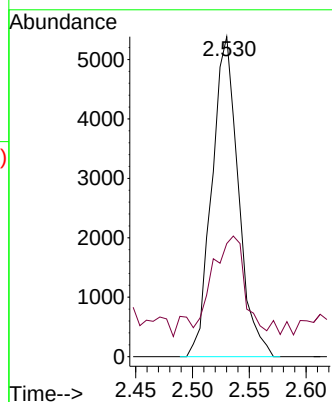
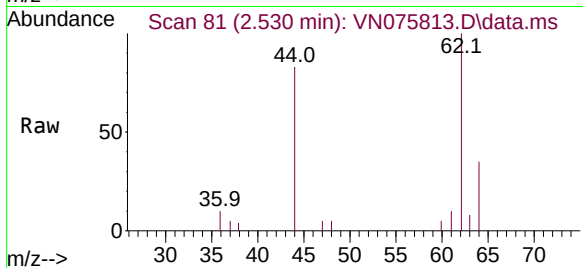




#4
 Vinyl Chloride
 Concen: 2.307 ug/l
 RT: 2.530 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VN075813.D
 Acq: 15 Dec 2022 13:24

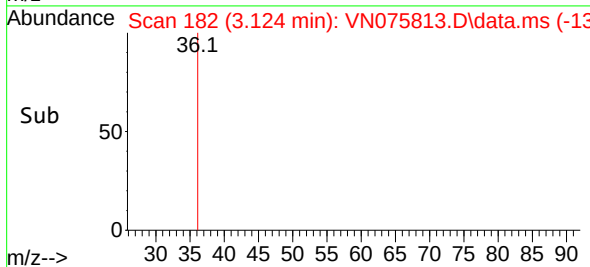
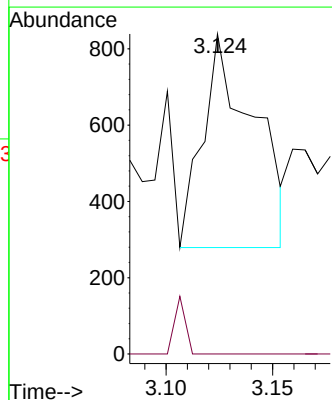
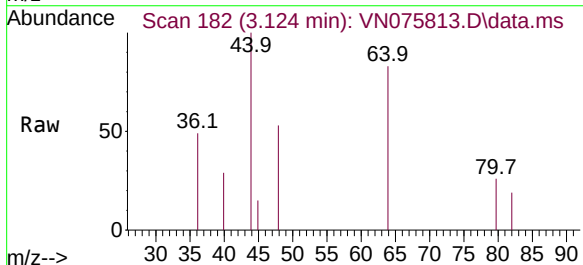
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP120722-2DL

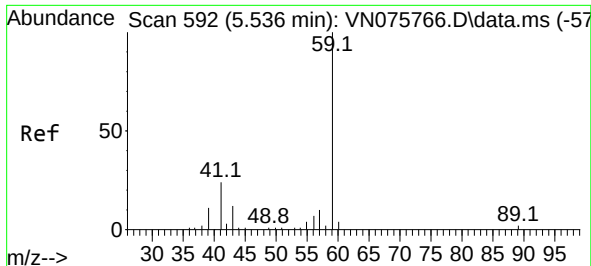
Tgt Ion: 62 Resp: 8705
 Ion Ratio Lower Upper
 62 100
 64 28.4 24.9 37.3



#6
 Chloroethane
 Concen: 0.332 ug/l
 RT: 3.124 min Scan# 182
 Delta R.T. 0.006 min
 Lab File: VN075813.D
 Acq: 15 Dec 2022 13:24

Tgt Ion: 64 Resp: 928
 Ion Ratio Lower Upper
 64 100
 66 0.0 24.6 36.8#

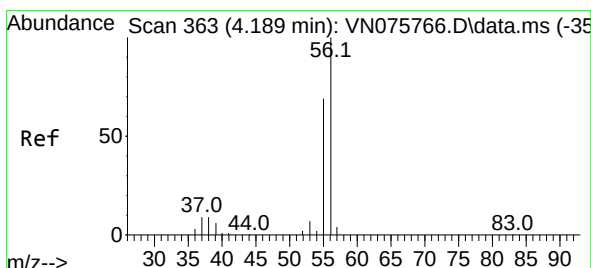
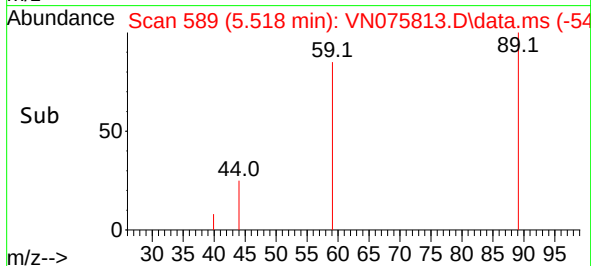
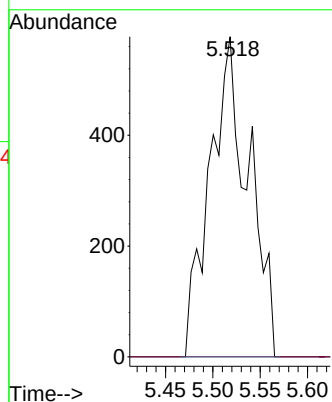
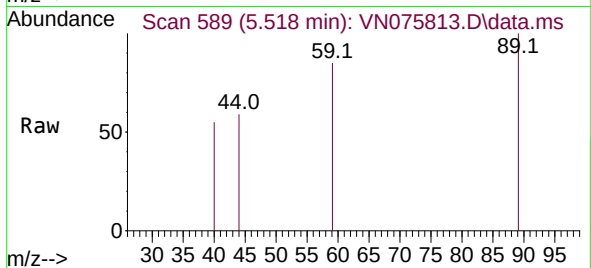




#11
Tert butyl alcohol
Concen: 2.999 ug/l
RT: 5.518 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

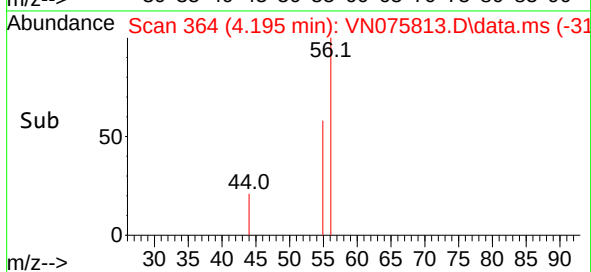
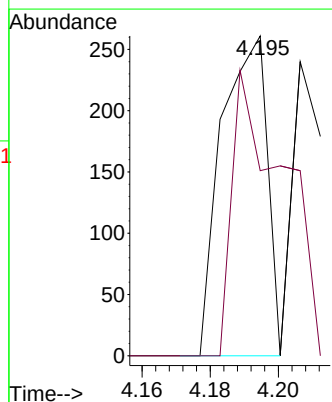
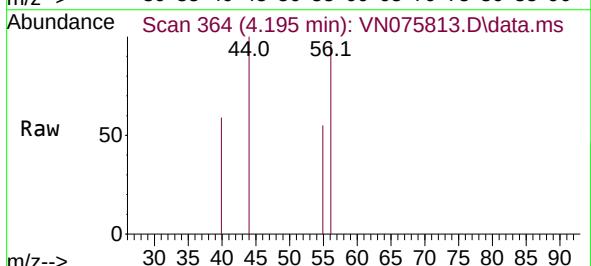
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2DL

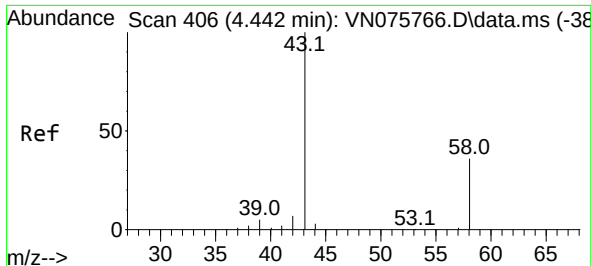
Tgt Ion: 59 Resp: 1654
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.358 ug/l
RT: 4.195 min Scan# 364
Delta R.T. 0.006 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

Tgt Ion: 56 Resp: 242
Ion Ratio Lower Upper
56 100
55 100.8 54.8 82.2#





#16

Acetone

Concen: 0.229 ug/l

RT: 4.448 min Scan# 406

Delta R.T. 0.006 min

Lab File: VN075813.D

Acq: 15 Dec 2022 13:24

Instrument :

MSVOA_N

ClientSampleId :

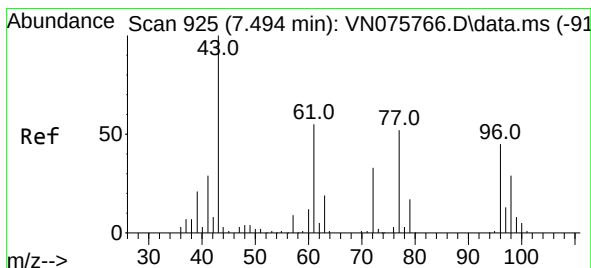
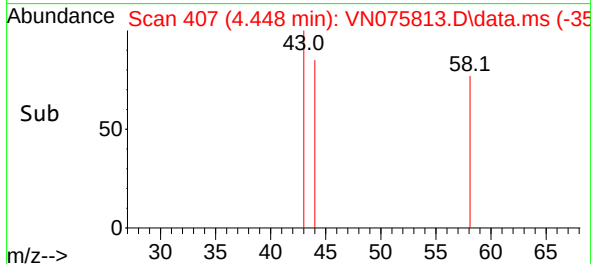
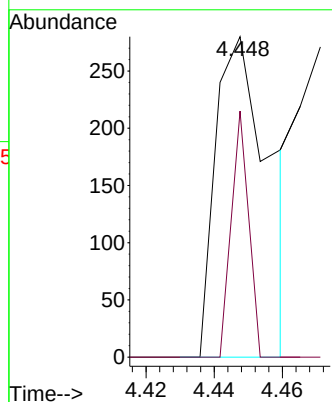
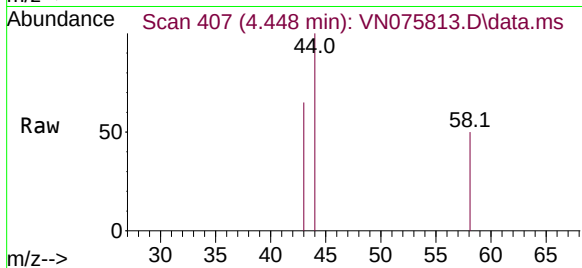
DUP120722-2DL

Tgt Ion: 43 Resp: 308

Ion Ratio Lower Upper

43 100

58 76.8 28.6 43.0#



#27

cis-1,2-Dichloroethene

Concen: 7.579 ug/l

RT: 7.500 min Scan# 926

Delta R.T. 0.006 min

Lab File: VN075813.D

Acq: 15 Dec 2022 13:24

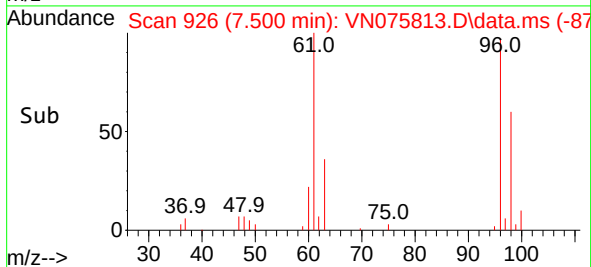
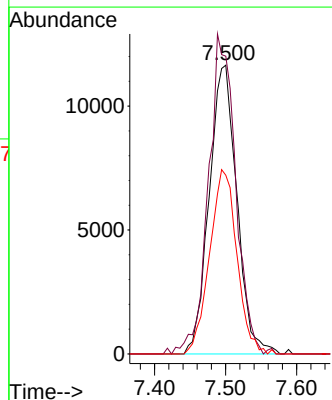
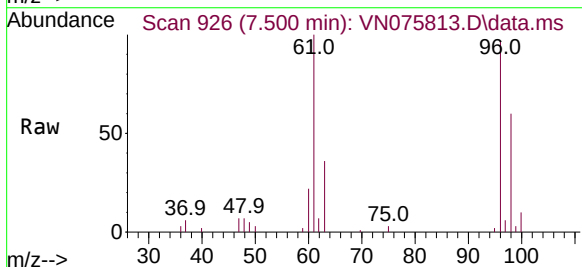
Tgt Ion: 96 Resp: 31520

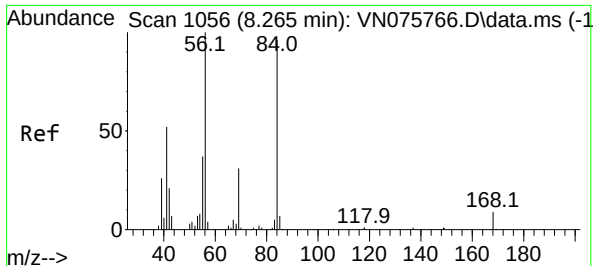
Ion Ratio Lower Upper

96 100

61 108.4 0.0 247.8

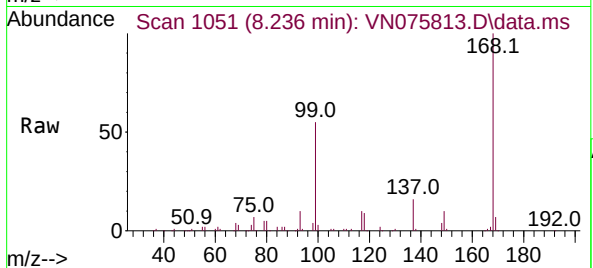
98 62.9 0.0 128.4



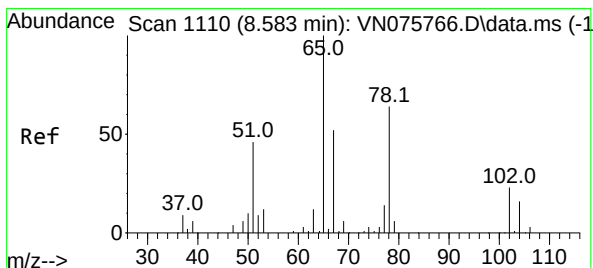
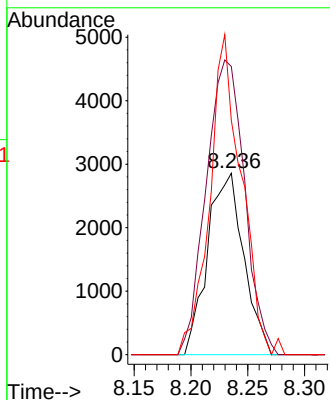
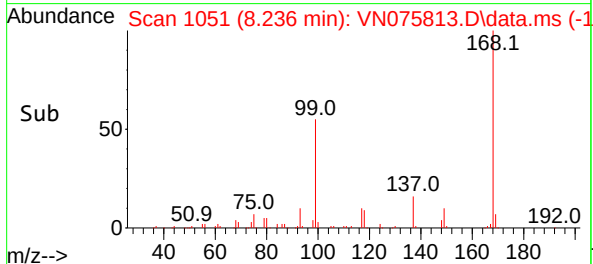


#31
Cyclohexane
Concen: 1.135 ug/l
RT: 8.236 min Scan# 1056
Delta R.T. -0.029 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

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MSVOA_N
ClientSampleId :
DUP120722-2DL

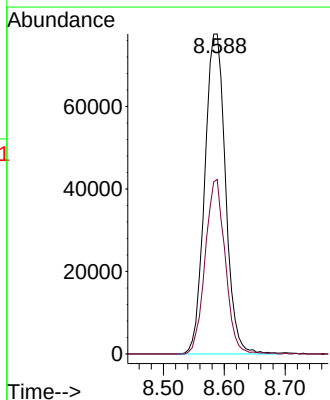
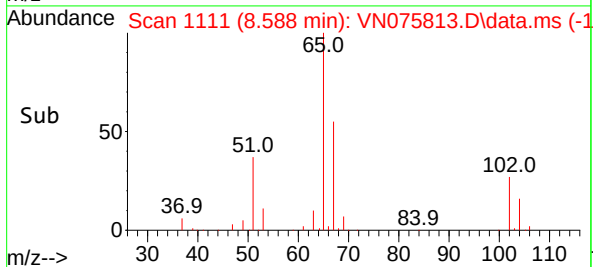
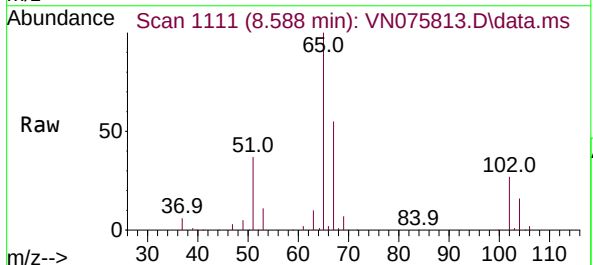


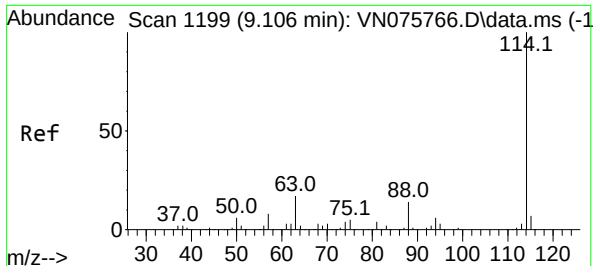
Tgt Ion: 56 Resp: 6336
Ion Ratio Lower Upper
56 100
69 158.8 24.7 37.1#
84 129.1 76.5 114.7#



#33
1,2-Dichloroethane-d4
Concen: 47.091 ug/l
RT: 8.588 min Scan# 1111
Delta R.T. 0.006 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

Tgt Ion: 65 Resp: 183539
Ion Ratio Lower Upper
65 100
67 52.7 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075813.D

Acq: 15 Dec 2022 13:24

Instrument :

MSVOA_N

ClientSampleId :

DUP120722-2DL

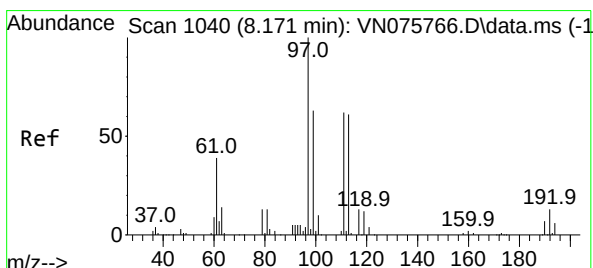
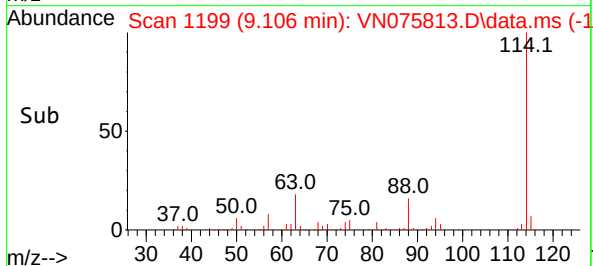
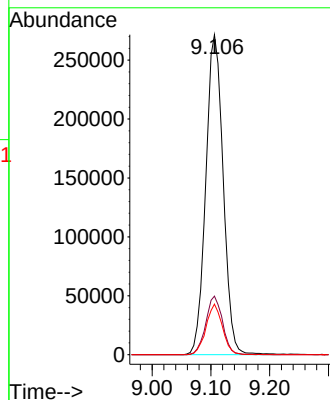
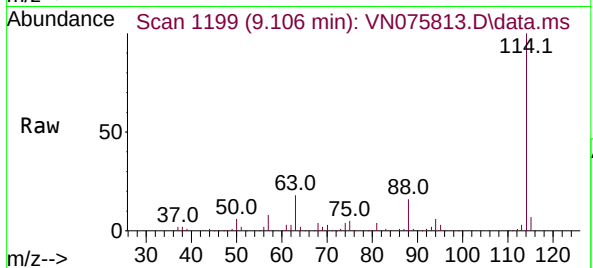
Tgt Ion:114 Resp: 557605

Ion Ratio Lower Upper

114 100

63 18.3 0.0 34.4

88 15.8 0.0 28.8



#35

Dibromofluoromethane

Concen: 47.342 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN075813.D

Acq: 15 Dec 2022 13:24

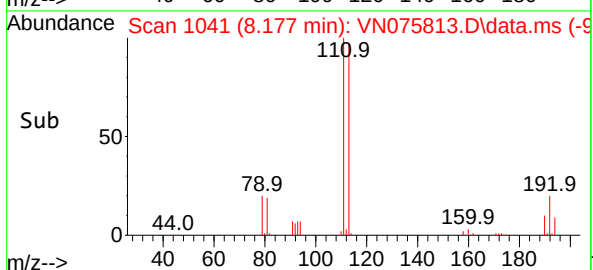
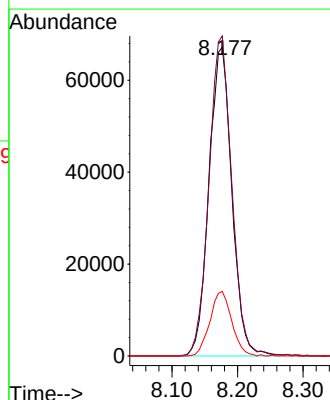
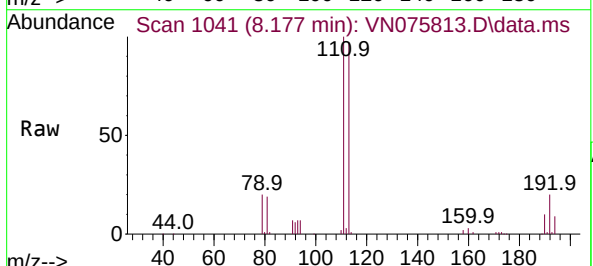
Tgt Ion:113 Resp: 163480

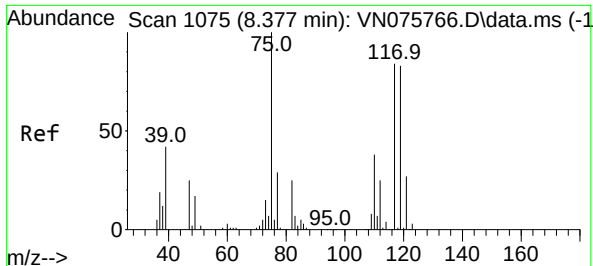
Ion Ratio Lower Upper

113 100

111 103.1 83.4 125.2

192 19.9 16.1 24.1





#36

1,1-Dichloropropene

Concen: 5.669 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN075813.D

Acq: 15 Dec 2022 13:24

Instrument :

MSVOA_N

ClientSampleId :

DUP120722-2DL

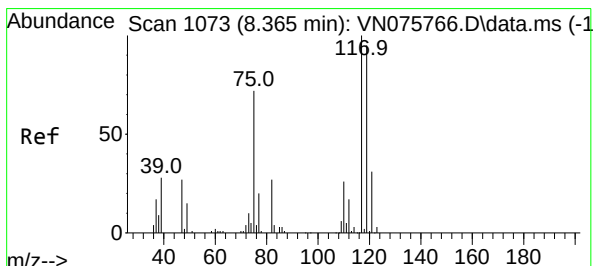
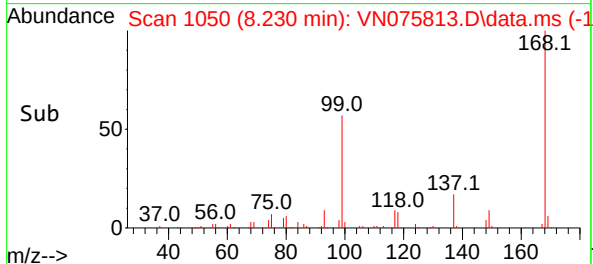
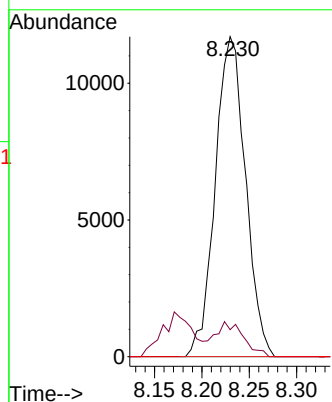
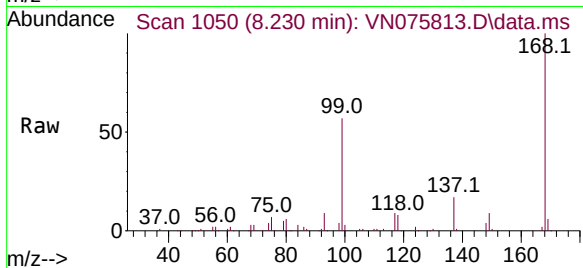
Tgt Ion: 75 Resp: 26004

Ion Ratio Lower Upper

75 100

110 10.6 18.8 56.4#

77 0.0 24.1 36.1#



#38

Carbon Tetrachloride

Concen: 6.939 ug/l

RT: 8.236 min Scan# 1051

Delta R.T. -0.129 min

Lab File: VN075813.D

Acq: 15 Dec 2022 13:24

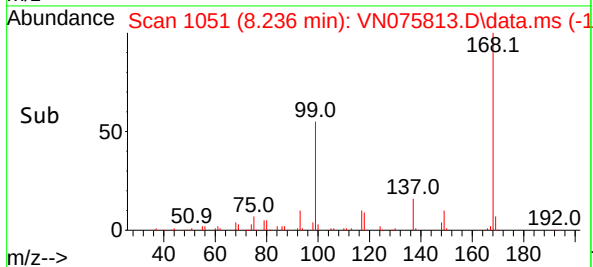
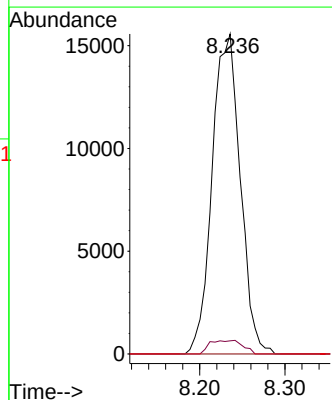
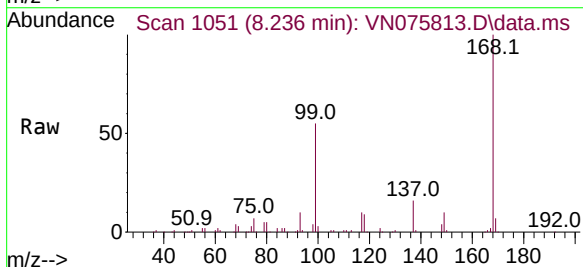
Tgt Ion: 117 Resp: 35625

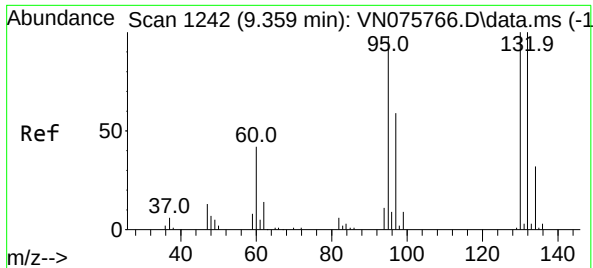
Ion Ratio Lower Upper

117 100

119 4.1 76.1 114.1#

121 0.0 24.5 36.7#

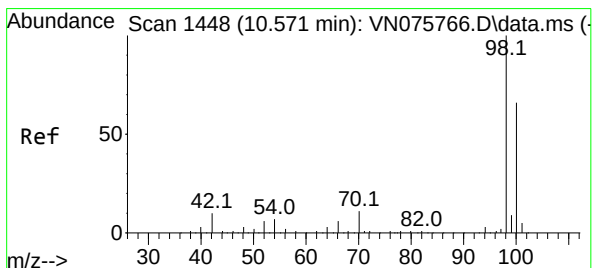
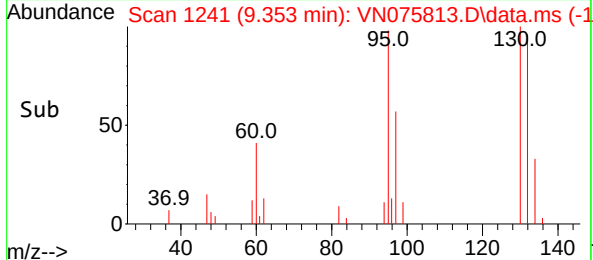
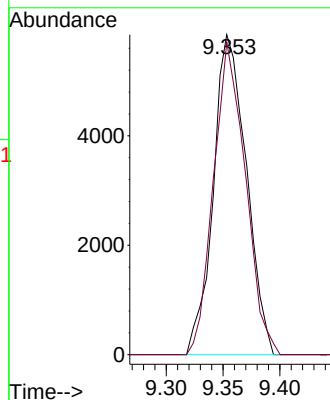
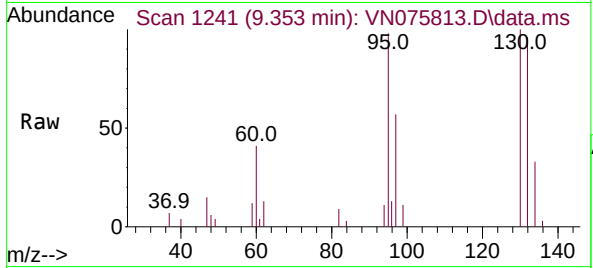




#44
Trichloroethene
Concen: 2.966 ug/l
RT: 9.353 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

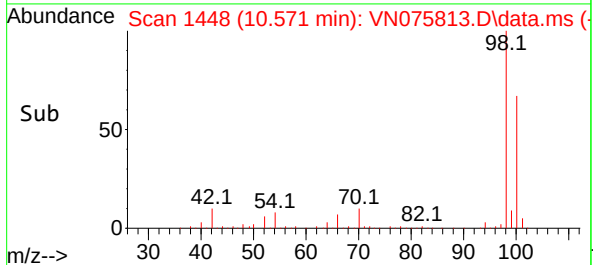
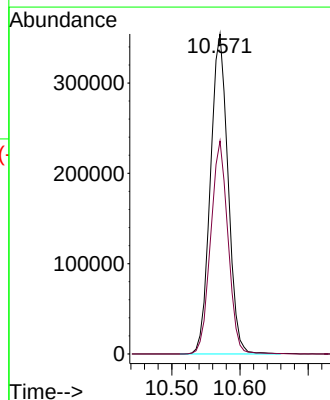
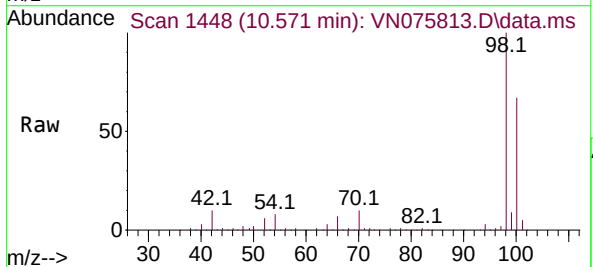
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2DL

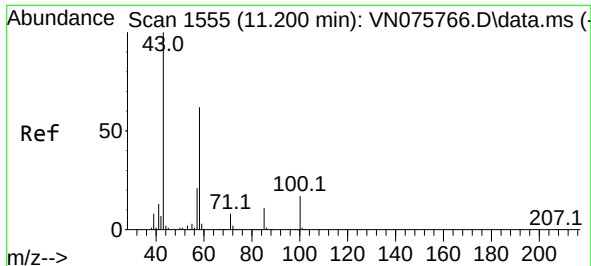
Tgt Ion:130 Resp: 11825
Ion Ratio Lower Upper
130 100
95 97.7 0.0 195.4



#50
Toluene-d8
Concen: 49.341 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

Tgt Ion: 98 Resp: 637036
Ion Ratio Lower Upper
98 100
100 65.6 52.1 78.1

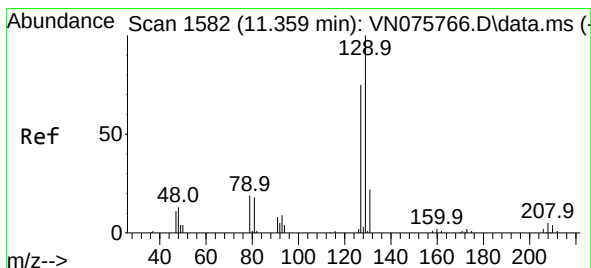
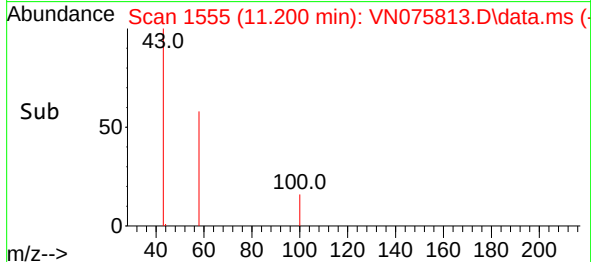
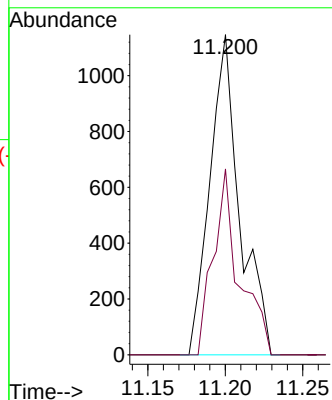
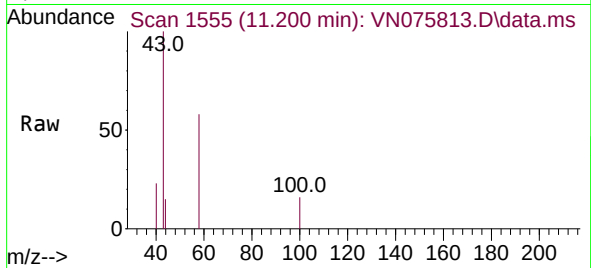




#59
2-Hexanone
Concen: 0.572 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

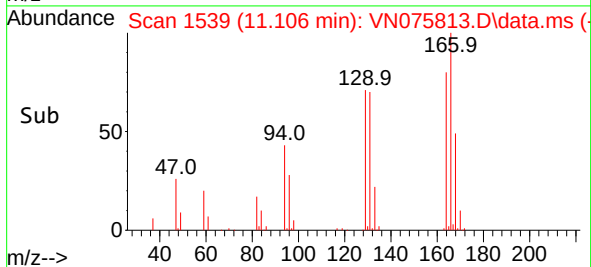
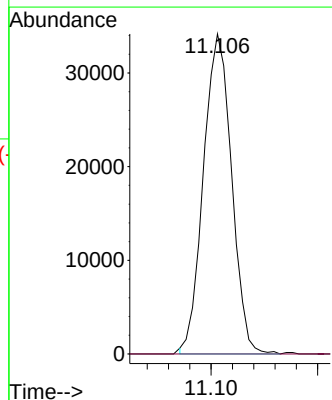
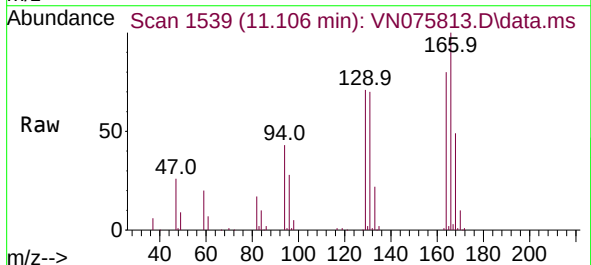
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2DL

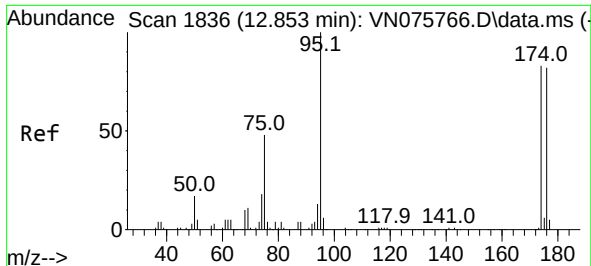
Tgt Ion: 43 Resp: 1534
Ion Ratio Lower Upper
43 100
58 50.5 30.6 92.0



#60
Dibromochloromethane
Concen: 15.576 ug/l
RT: 11.106 min Scan# 1539
Delta R.T. -0.253 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

Tgt Ion: 129 Resp: 62671
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.9#

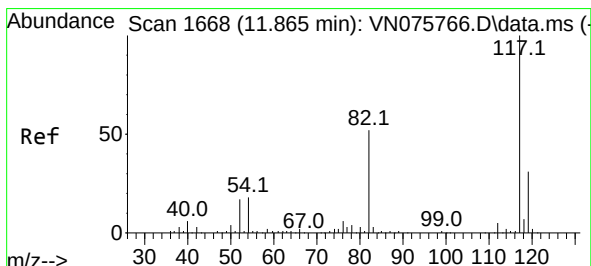
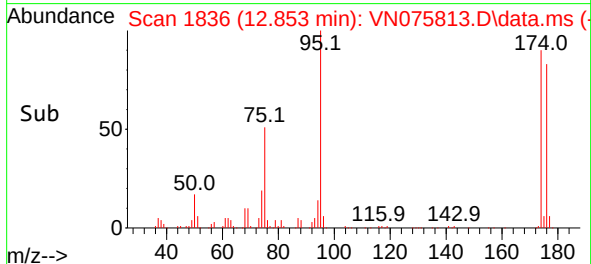
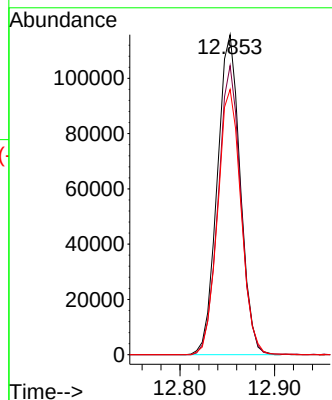
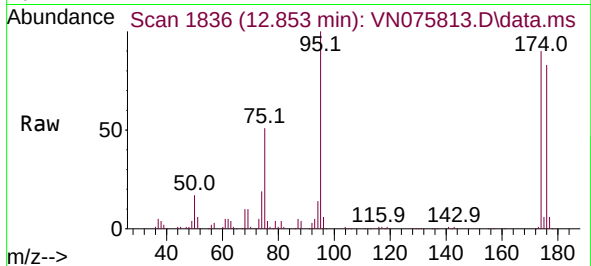




#62
4-Bromofluorobenzene
Concen: 45.569 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

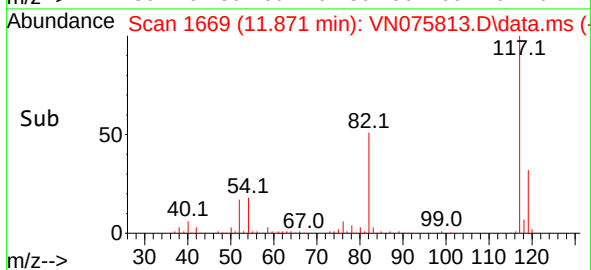
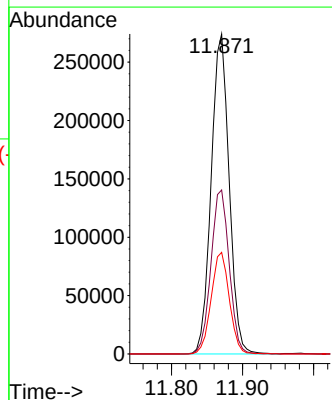
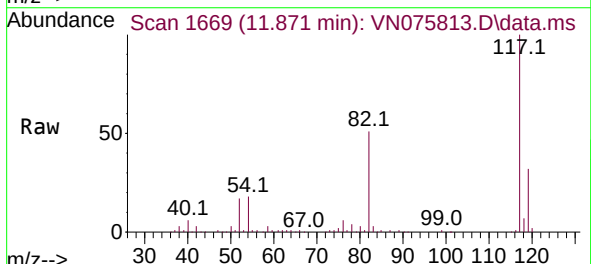
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2DL

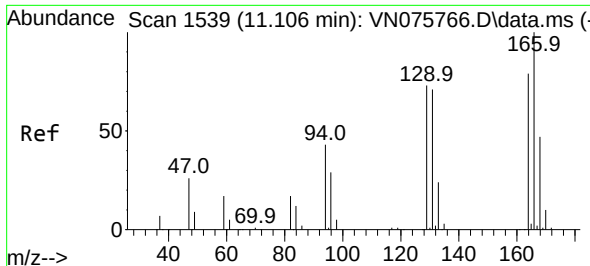
Tgt Ion: 95 Resp: 194867
Ion Ratio Lower Upper
95 100
174 88.7 0.0 171.6
176 84.5 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

Tgt Ion: 117 Resp: 480568
Ion Ratio Lower Upper
117 100
82 51.2 41.3 61.9
119 31.8 24.6 37.0

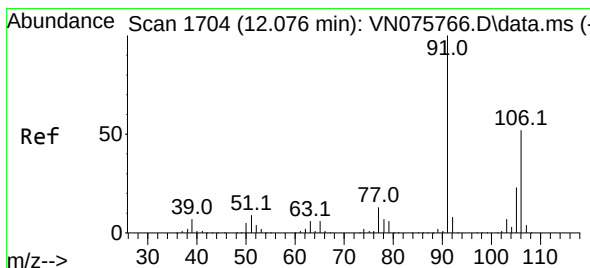
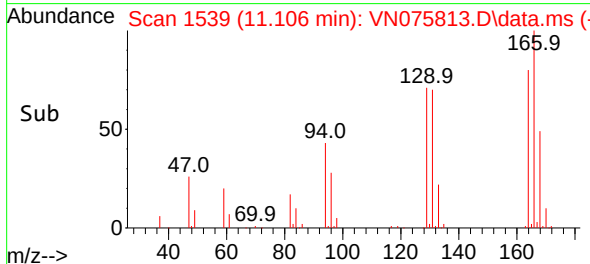
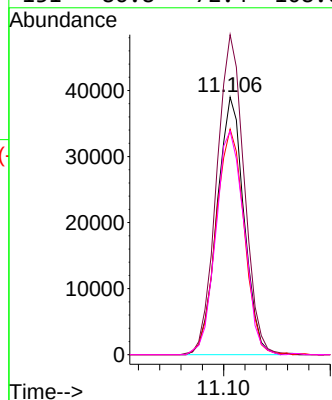
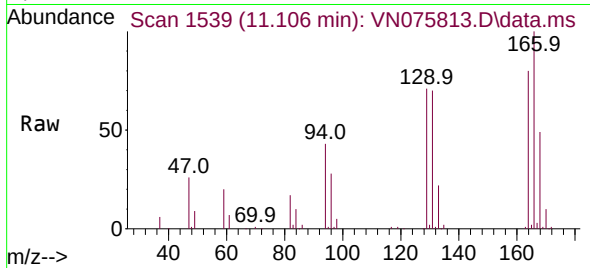




#64
Tetrachloroethene
Concen: 20.259 ug/l
RT: 11.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

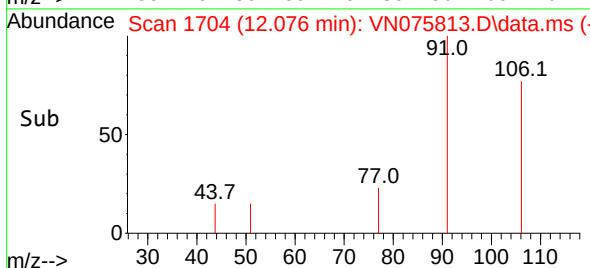
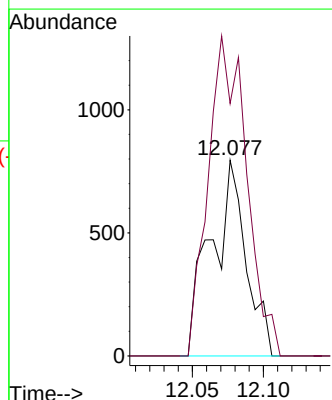
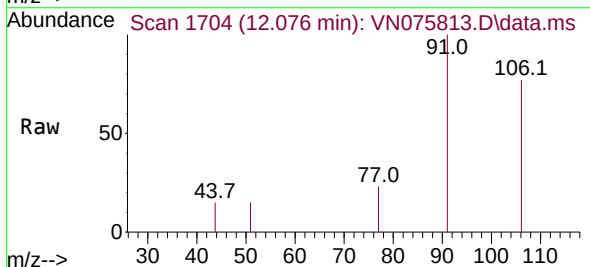
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2DL

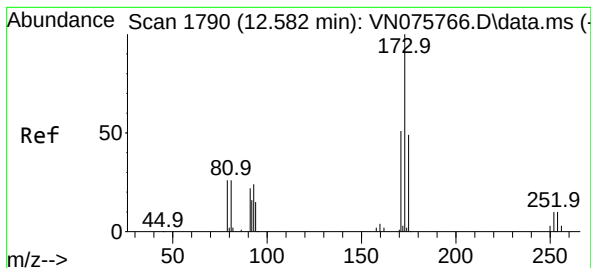
Tgt Ion:164 Resp: 68508
Ion Ratio Lower Upper
164 100
166 124.3 101.9 152.9
129 87.6 74.2 111.2
131 86.8 72.4 108.6



#68
m/p-Xylenes
Concen: 0.207 ug/l
RT: 12.076 min Scan# 1704
Delta R.T. 0.000 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

Tgt Ion:106 Resp: 1363
Ion Ratio Lower Upper
106 100
91 179.3 156.6 235.0





#71

Bromoform

Concen: 0.576 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN075813.D

Acq: 15 Dec 2022 13:24

Instrument :

MSVOA_N

ClientSampleId :

DUP120722-2DL

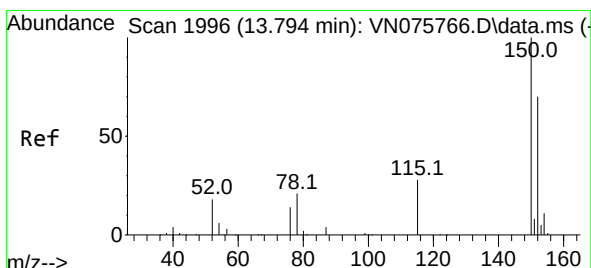
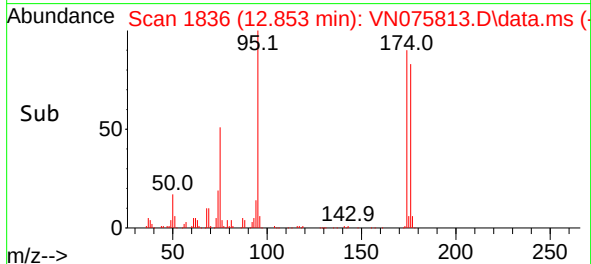
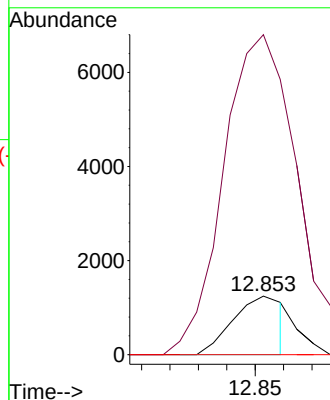
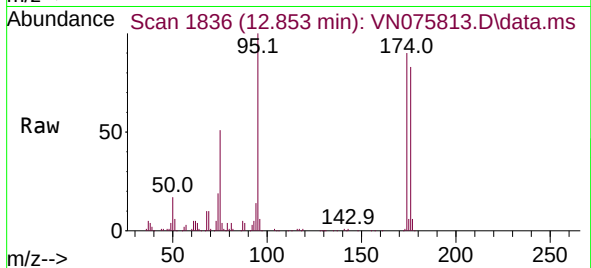
Tgt Ion:173 Resp: 1531

Ion Ratio Lower Upper

173 100

175 636.7 24.3 72.8#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. 0.000 min

Lab File: VN075813.D

Acq: 15 Dec 2022 13:24

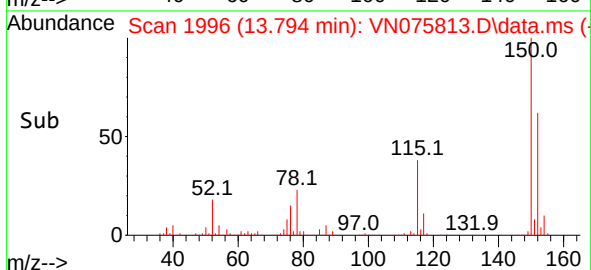
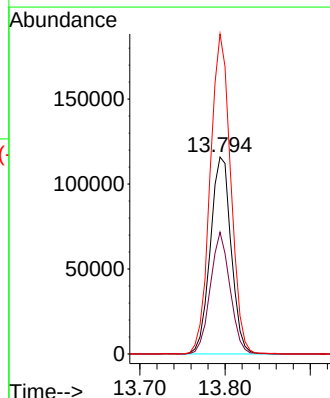
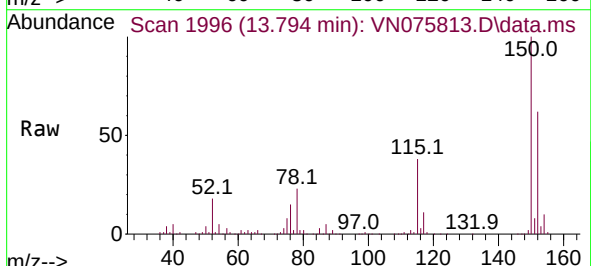
Tgt Ion:152 Resp: 196828

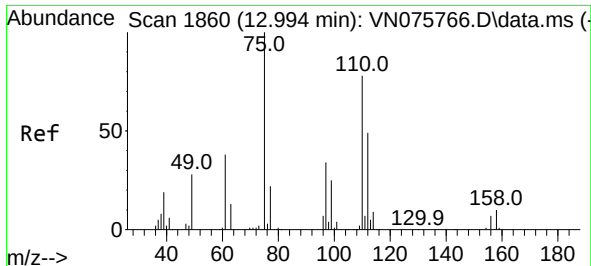
Ion Ratio Lower Upper

152 100

115 58.5 29.1 87.4

150 160.1 0.0 347.0

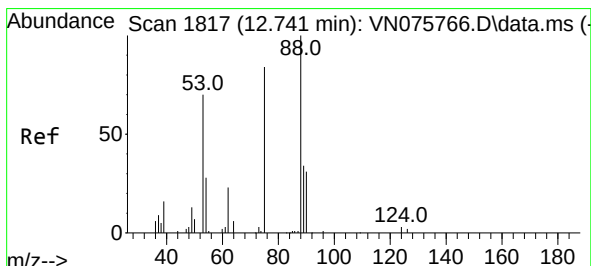
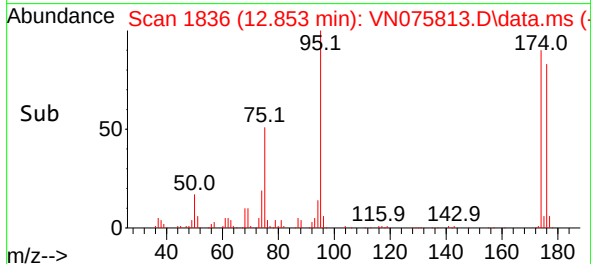
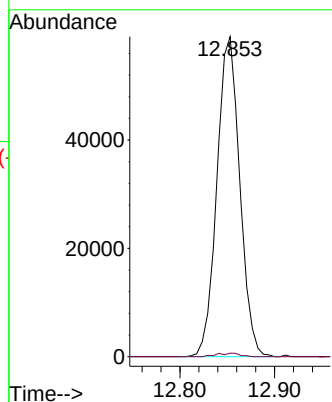
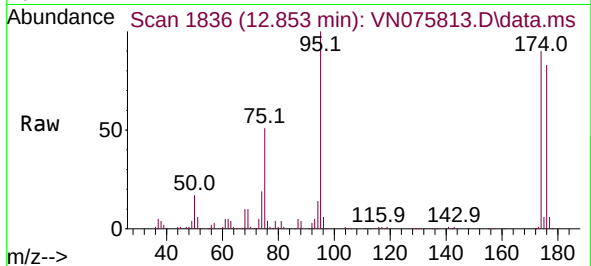




#76
1,2,3-Trichloropropane
Concen: 24.995 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

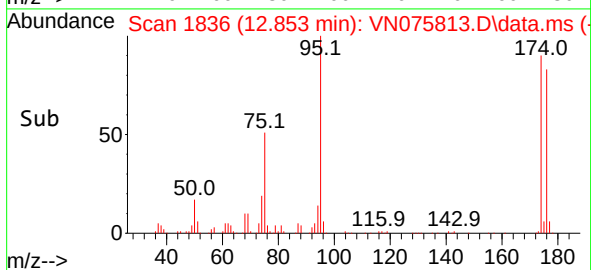
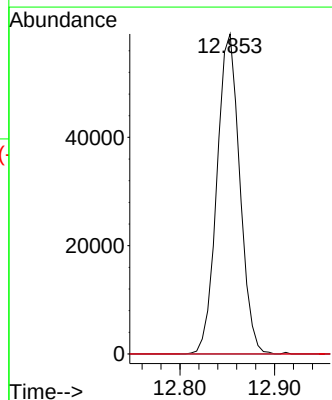
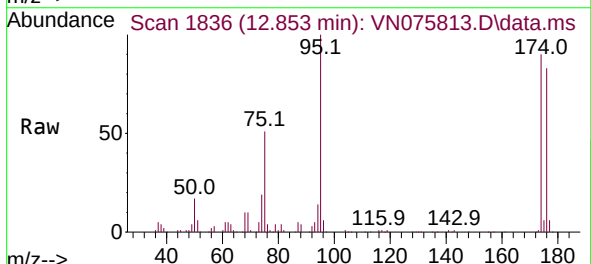
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2DL

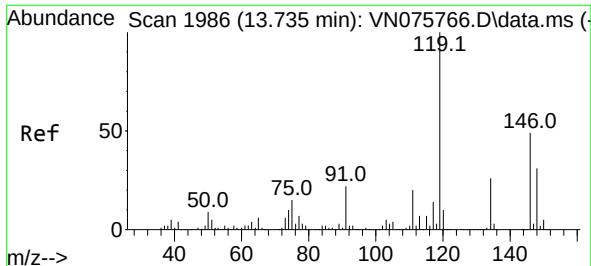
Tgt Ion: 75 Resp: 99171
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 89.971 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

Tgt Ion: 75 Resp: 99171
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#

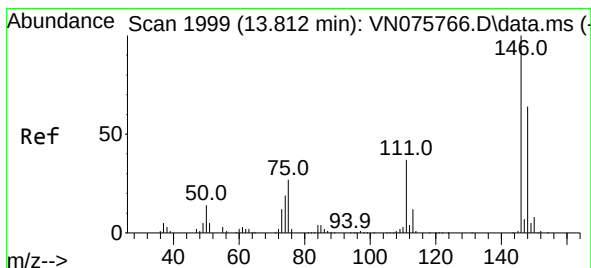
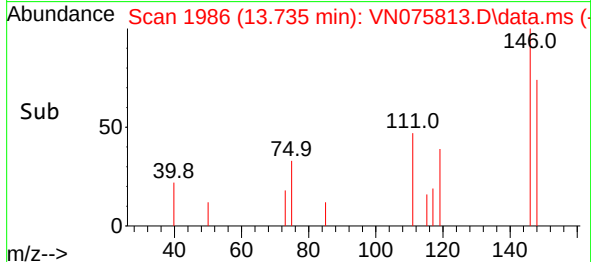
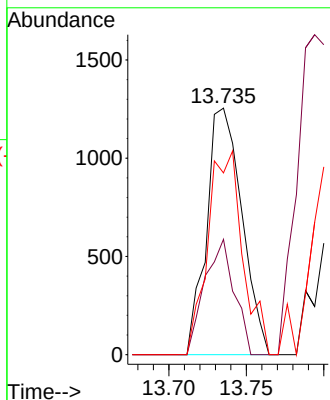
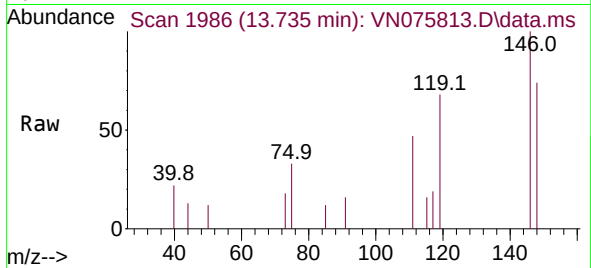




#87
 1,3-Dichlorobenzene
 Concen: 0.300 ug/l
 RT: 13.735 min Scan# 1986
 Delta R.T. 0.000 min
 Lab File: VN075813.D
 Acq: 15 Dec 2022 13:24

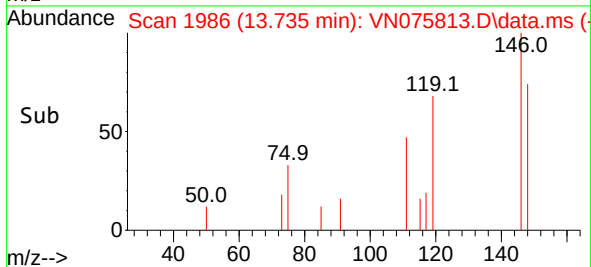
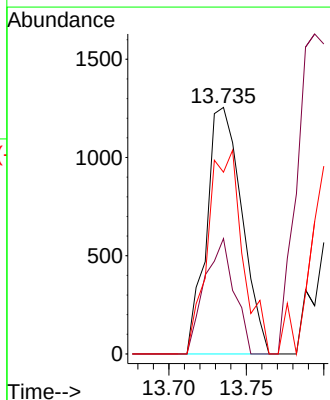
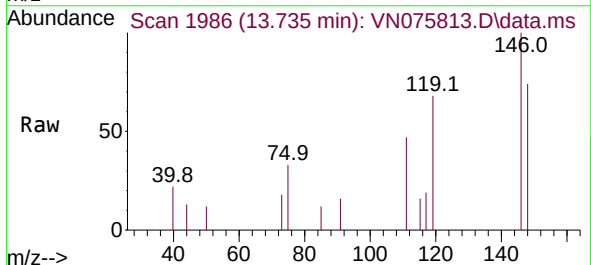
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP120722-2DL

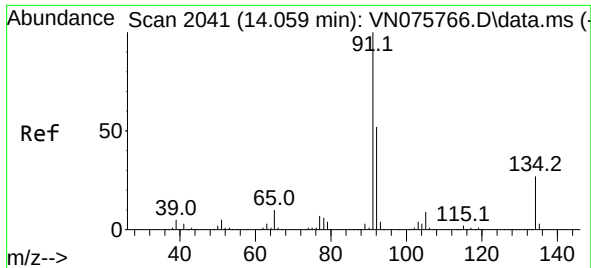
Tgt Ion:146	Resp:	1992
Ion	Ratio	Lower Upper
146	100	
111	39.1	19.7 59.0
148	81.2	31.4 94.2



#88
 1,4-Dichlorobenzene
 Concen: 0.293 ug/l
 RT: 13.735 min Scan# 1986
 Delta R.T. -0.076 min
 Lab File: VN075813.D
 Acq: 15 Dec 2022 13:24

Tgt Ion:146	Resp:	1992
Ion	Ratio	Lower Upper
146	100	
111	39.1	19.1 57.1
148	81.2	32.0 96.2

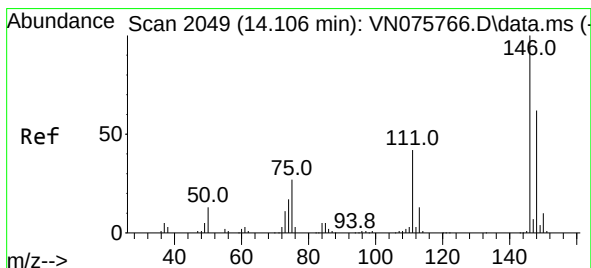
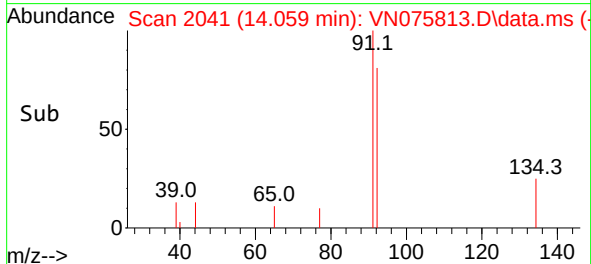
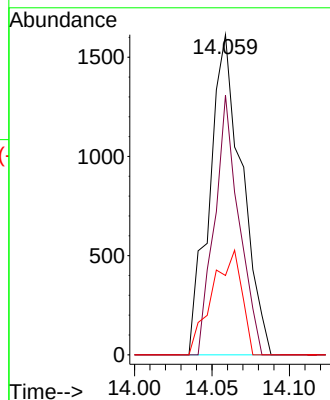
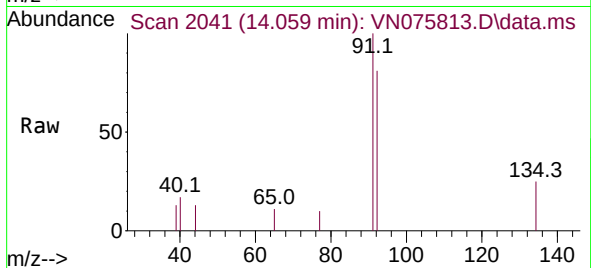




#89
n-Butylbenzene
Concen: 0.241 ug/l
RT: 14.059 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

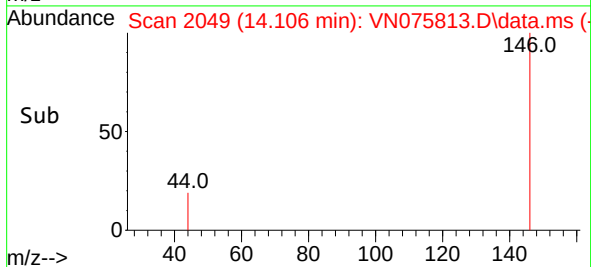
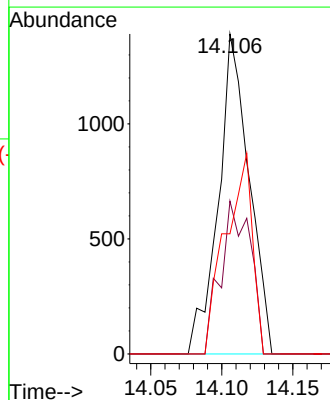
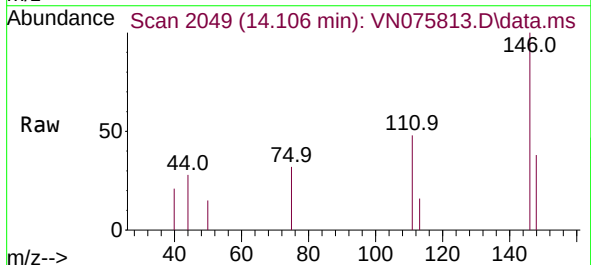
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2DL

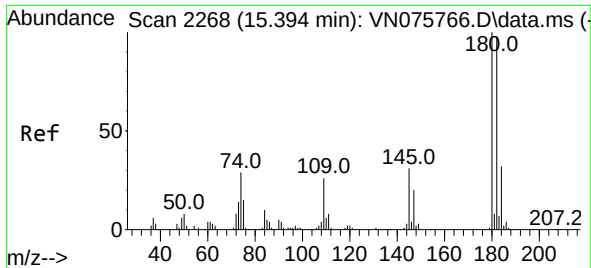
Tgt Ion: 91 Resp: 2350
Ion Ratio Lower Upper
91 100
92 60.6 26.4 79.2
134 29.9 13.4 40.2



#91
1,2-Dichlorobenzene
Concen: 0.319 ug/l
RT: 14.106 min Scan# 2049
Delta R.T. 0.000 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

Tgt Ion:146 Resp: 2091
Ion Ratio Lower Upper
146 100
111 46.5 20.3 61.0
148 55.3 31.7 95.1

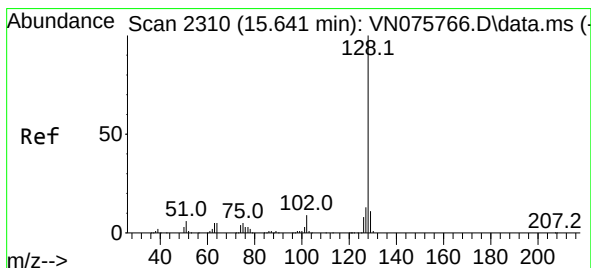
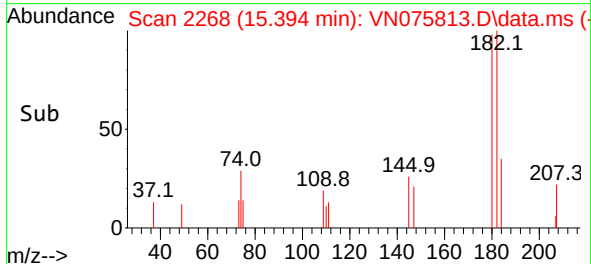
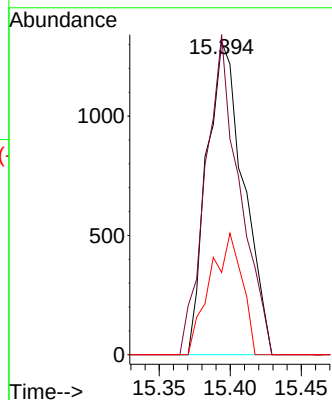
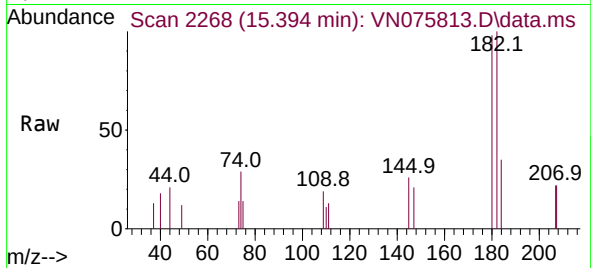




#93
1,2,4-Trichlorobenzene
Concen: 0.730 ug/l
RT: 15.394 min Scan# 2268
Delta R.T. 0.000 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

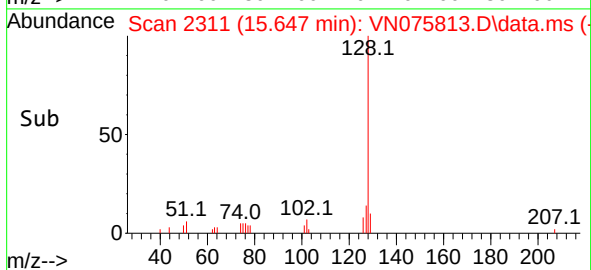
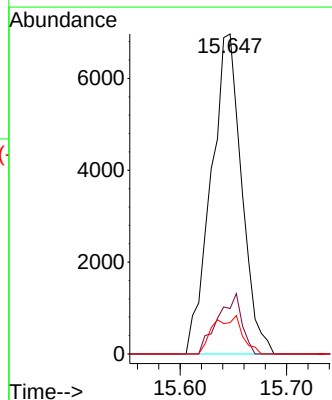
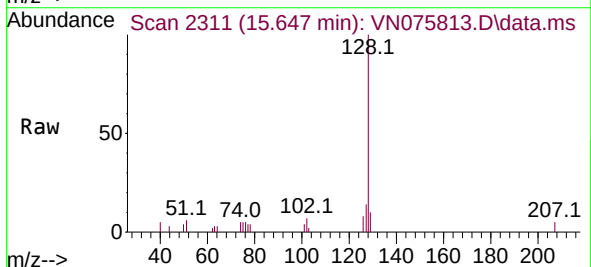
Instrument :
MSVOA_N
ClientSampleId :
DUP120722-2DL

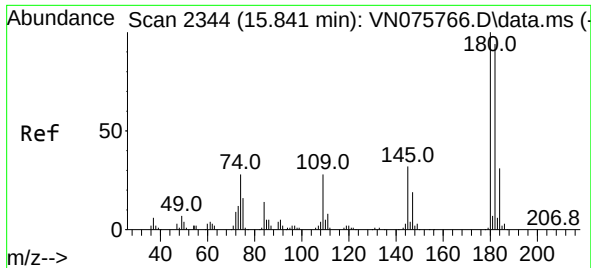
Tgt Ion:180 Resp: 2366
Ion Ratio Lower Upper
180 100
182 94.8 47.5 142.5
145 33.6 15.3 45.8



#95
Naphthalene
Concen: 3.416 ug/l
RT: 15.647 min Scan# 2311
Delta R.T. 0.006 min
Lab File: VN075813.D
Acq: 15 Dec 2022 13:24

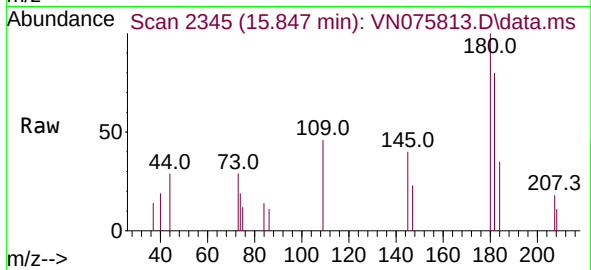
Tgt Ion:128 Resp: 13871
Ion Ratio Lower Upper
128 100
127 14.8 10.4 15.6
129 11.3 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.920 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN075813.D
 Acq: 15 Dec 2022 13:24

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP120722-2DL



Tgt Ion:	180	Resp:	2789
Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.0	141.0
145	37.2	16.0	47.9

