

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052423\
 Data File : VN077874.D
 Acq On : 25 May 2023 02:11
 Operator : JC\MD
 Sample : 02852-02ME 20X
 Misc : 6.60g/5.0mL/100uL/5.0mL/MSVOA_N/MEOH
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CB-32-G3-SO-14.5-051823ME

Quant Time: May 25 05:01:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

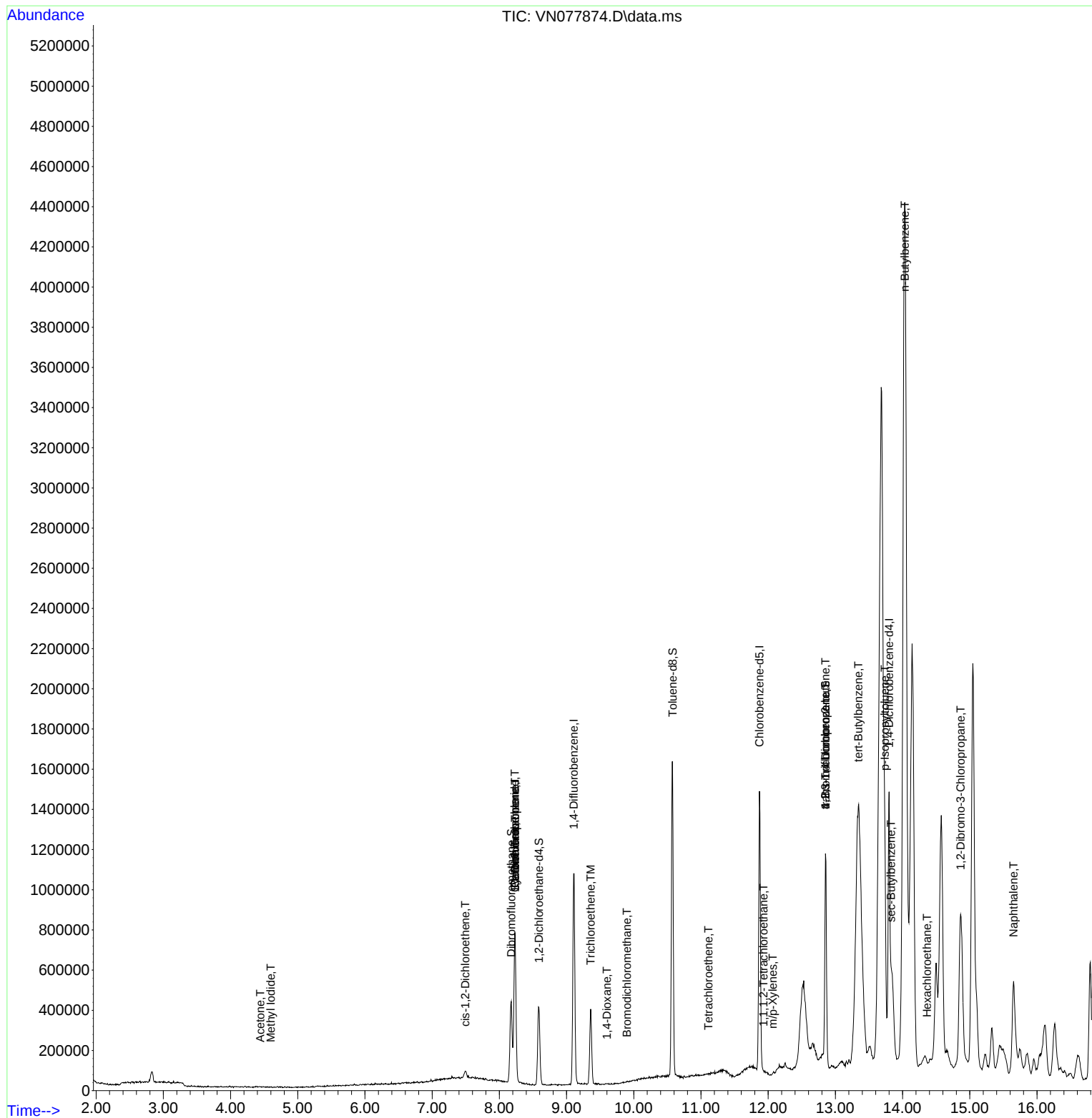
Internal Standards						
1) Pentafluorobenzene	8.230	168	551612	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	969996	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	852963	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	328537	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	333393	40.394	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	80.780%
35) Dibromofluoromethane	8.177	113	286132	45.237	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.480%
50) Toluene-d8	10.577	98	1163528	47.791	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.580%
62) 4-Bromofluorobenzene	12.853	95	375600	43.681	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	87.360%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1839	Below Cal		97
10) Methyl Iodide	4.600	142	2349	0.323 ug/l #		54
13) Acrolein	4.200	56	144	Below Cal #		1
16) Acetone	4.442	43	593	0.228 ug/l #		40
20) Methylene Chloride	5.283	84	2664	Below Cal #		79
27) cis-1,2-Dichloroethene	7.494	96	22577	2.889 ug/l		94
31) Cyclohexane	8.236	56	13260	1.182 ug/l #		50
36) 1,1-Dichloropropene	8.236	75	43395	4.691 ug/l #		50
38) Carbon Tetrachloride	8.230	117	58368	6.248 ug/l #		15
44) Trichloroethene	9.359	130	136273	19.713 ug/l		99
47) Bromodichloromethane	9.900	83	2147	0.225 ug/l #		27
49) 1,4-Dioxane	9.600	88	62	0.514 ug/l #		1
64) Tetrachloroethene	11.112	164	1311	0.220 ug/l #		40
66) 1,1,1,2-Tetrachloroethane	11.929	131	3751	0.586 ug/l #		9
68) m/p-Xylenes	12.071	106	3529	0.281 ug/l		85
76) 1,2,3-Trichloropropane	12.853	75	192352	23.378 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	192352	74.730 ug/l #		15
83) tert-Butylbenzene	13.341	119	22705	1.093 ug/l #		2
85) sec-Butylbenzene	13.829	105	12126	0.411 ug/l		99
86) p-Isopropyltoluene	13.735	119	223531	9.495 ug/l		99
89) n-Butylbenzene	14.035	91	38786	1.791 ug/l #		38
90) Hexachloroethane	14.365	117	1191	0.308 ug/l		68
92) 1,2-Dibromo-3-Chloropr...	14.865	75	21248	12.597 ug/l #		1
95) Naphthalene	15.653	128	176356	7.852 ug/l #		74

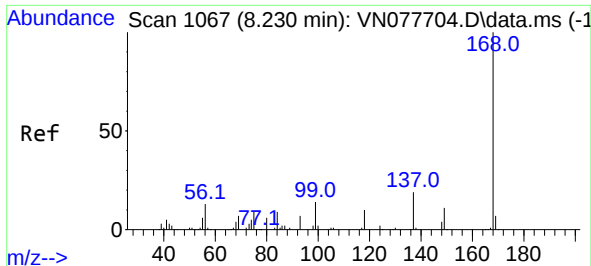
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

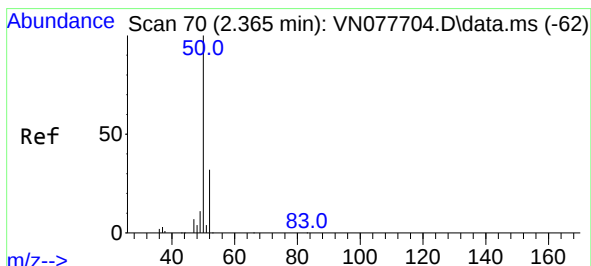
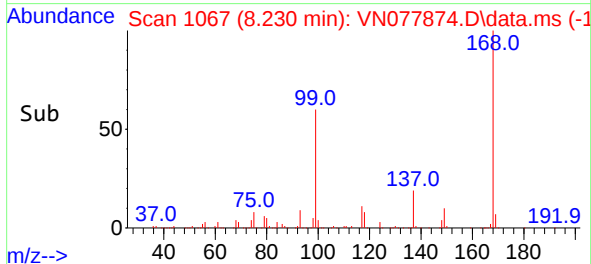
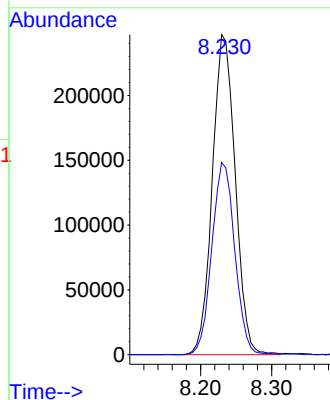
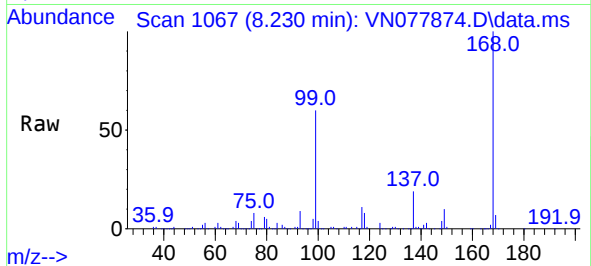




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

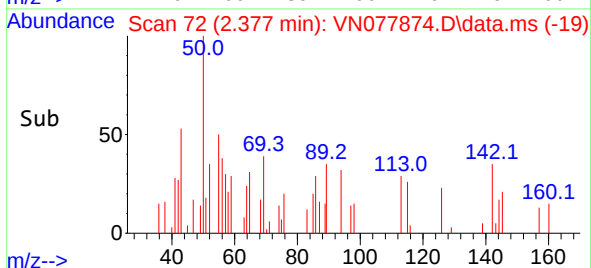
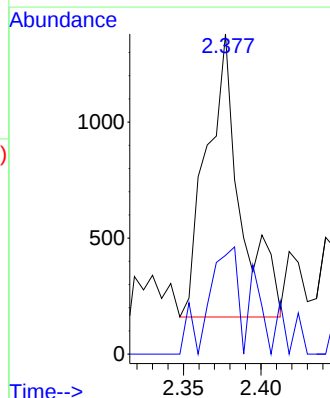
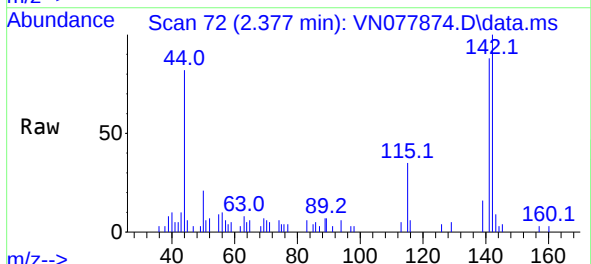
Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

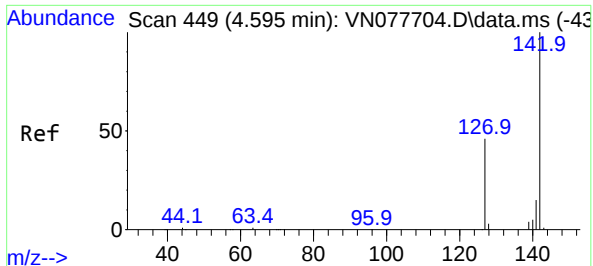
Tgt Ion:168 Resp: 551612
Ion Ratio Lower Upper
168 100
99 60.0 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.012 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

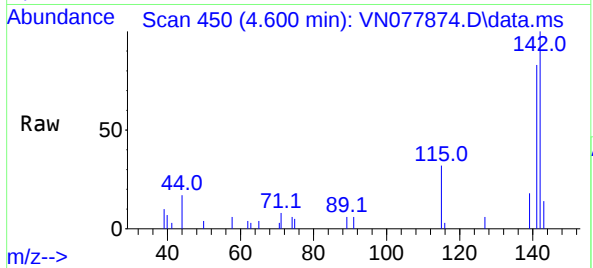
Tgt Ion: 50 Resp: 1839
Ion Ratio Lower Upper
50 100
52 34.8 26.5 39.7



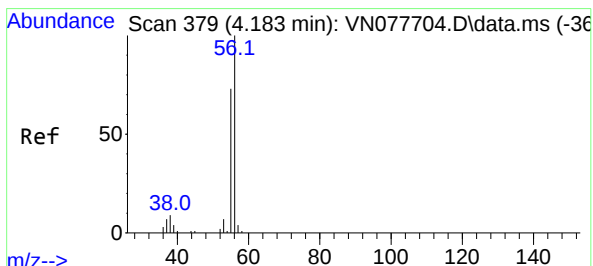
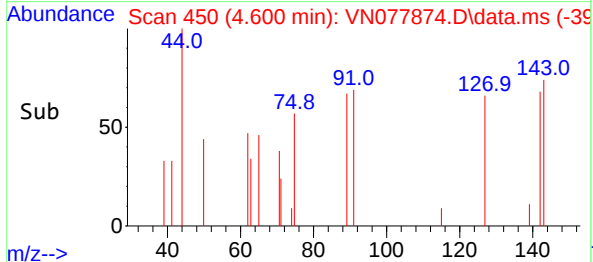
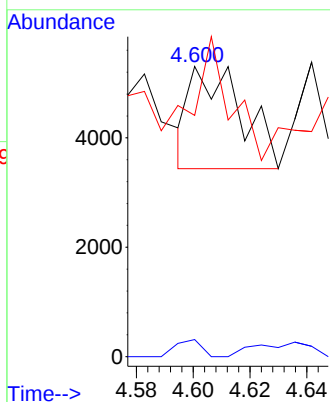


#10
Methyl Iodide
Concen: 0.323 ug/l
RT: 4.600 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

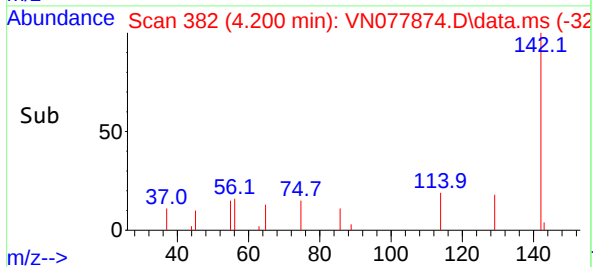
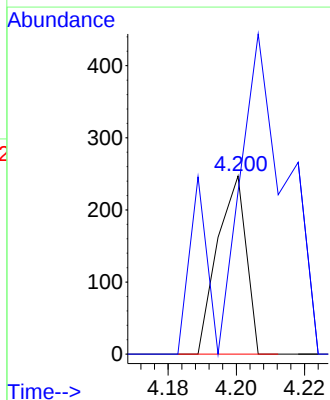
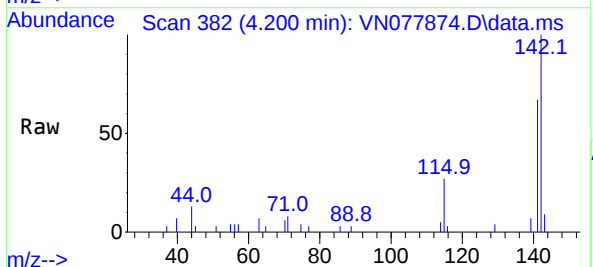


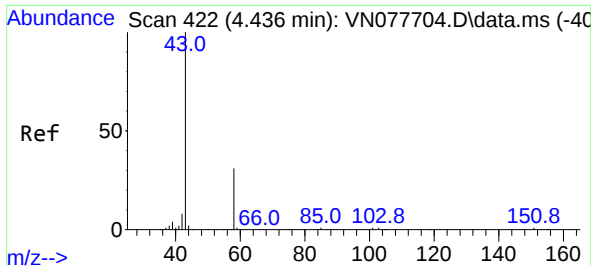
Tgt Ion:142 Resp: 2349
Ion Ratio Lower Upper
142 100
127 7.9 37.6 56.4#
141 12.2 11.4 17.0



#13
Acrolein
Concen: Below Cal
RT: 4.200 min Scan# 382
Delta R.T. 0.011 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Tgt Ion: 56 Resp: 144
Ion Ratio Lower Upper
56 100
55 343.8 54.5 81.7#

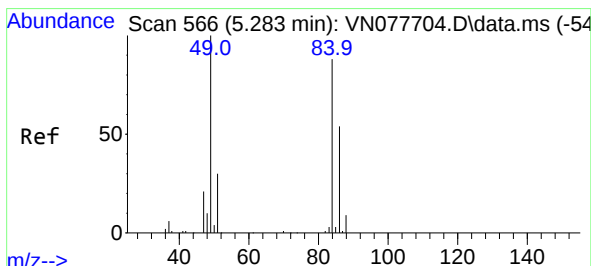
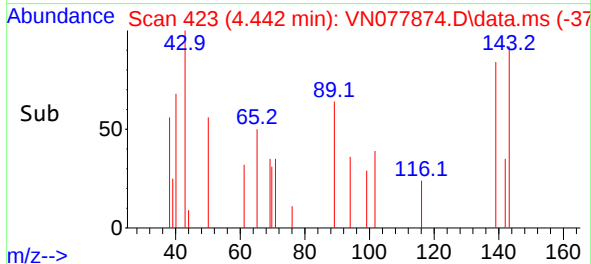
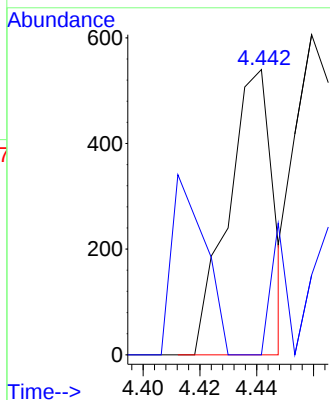
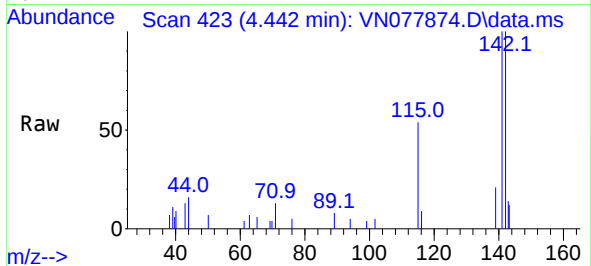




#16
Acetone
Concen: 0.228 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

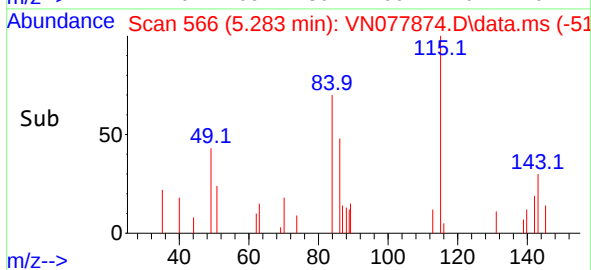
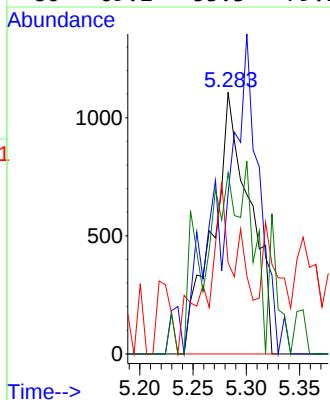
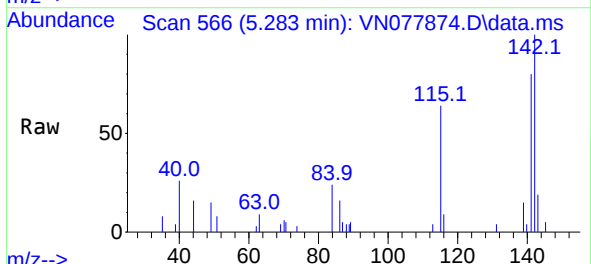
Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

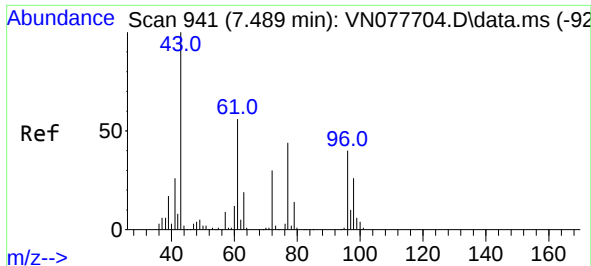
Tgt Ion: 43 Resp: 593
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Tgt Ion: 84 Resp: 2664
Ion Ratio Lower Upper
84 100
49 61.4 79.7 119.5#
51 34.8 25.2 37.8
86 69.2 53.3 79.9

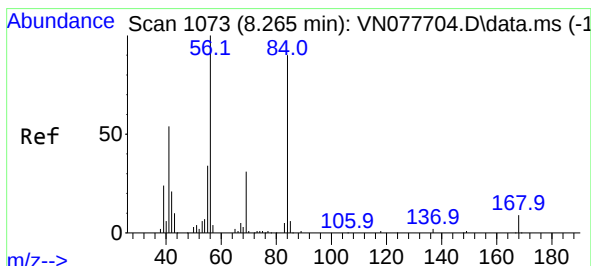
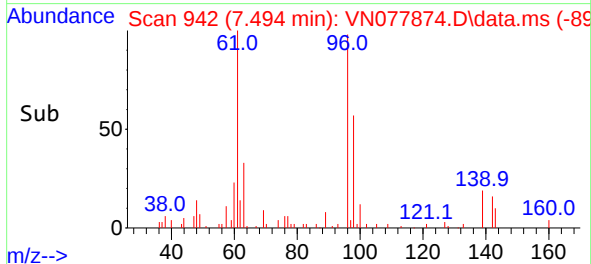
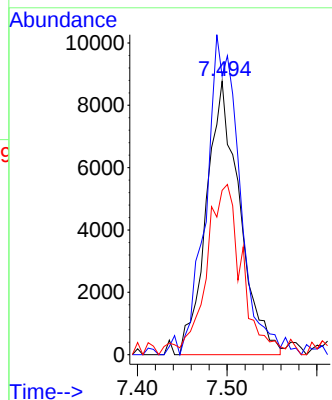
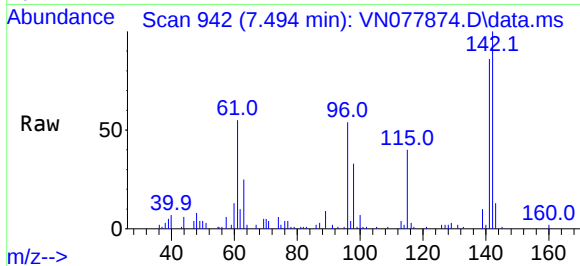




#27
 cis-1,2-Dichloroethene
 Concen: 2.889 ug/l
 RT: 7.494 min Scan# 941
 Delta R.T. 0.006 min
 Lab File: VN077874.D
 Acq: 25 May 2023 02:11

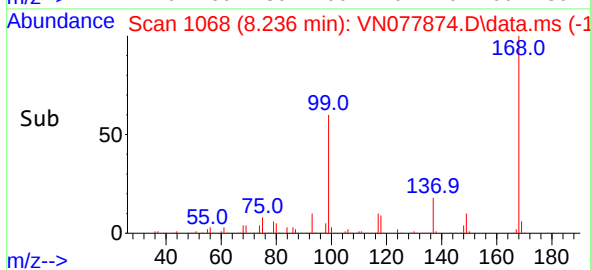
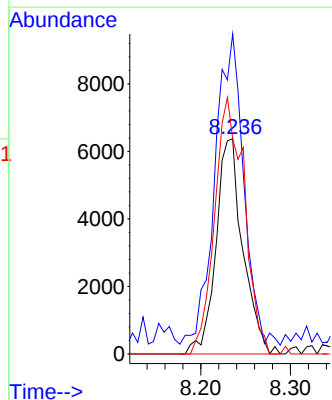
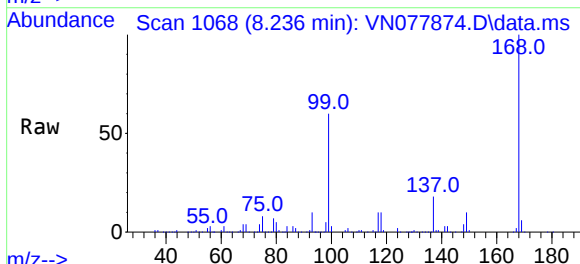
Instrument :
 MSVOA_N
 ClientSampleId :
 CB-32-G3-SO-14.5-051823ME

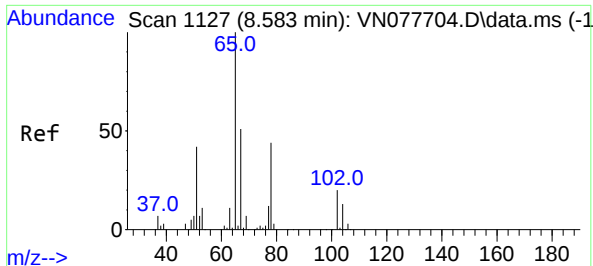
Tgt Ion:	96	Resp:	22577
Ion	Ratio	Lower	Upper
96	100		
61	119.2	0.0	255.2
98	67.3	0.0	128.8



#31
 Cyclohexane
 Concen: 1.182 ug/l
 RT: 8.236 min Scan# 1068
 Delta R.T. -0.029 min
 Lab File: VN077874.D
 Acq: 25 May 2023 02:11

Tgt Ion:	56	Resp:	13260
Ion	Ratio	Lower	Upper
56	100		
69	144.5	26.8	40.2#
84	100.0	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 40.394 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN077874.D

Acq: 25 May 2023 02:11

Instrument :

MSVOA_N

ClientSampleId :

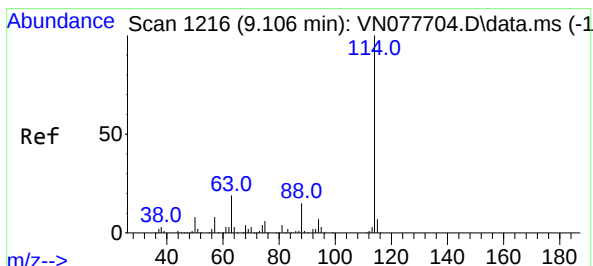
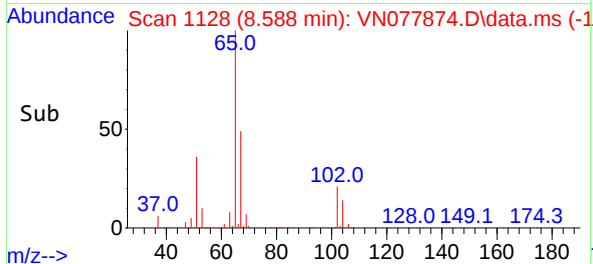
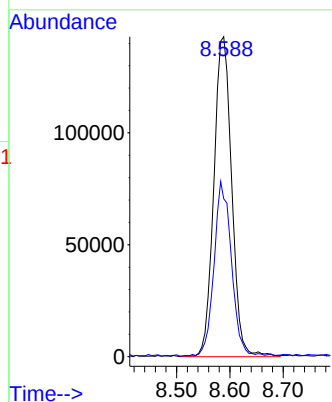
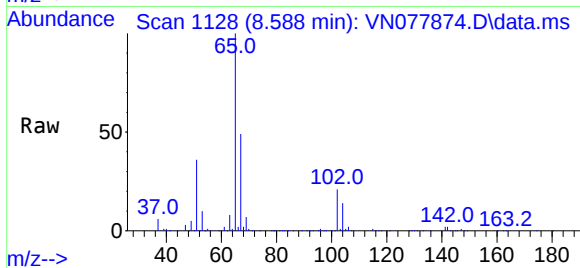
CB-32-G3-SO-14.5-051823ME

Tgt Ion: 65 Resp: 333393

Ion Ratio Lower Upper

65 100

67 52.7 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: VN077874.D

Acq: 25 May 2023 02:11

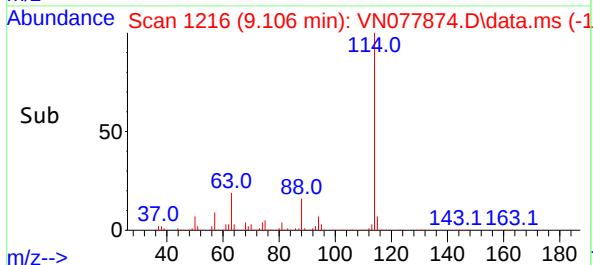
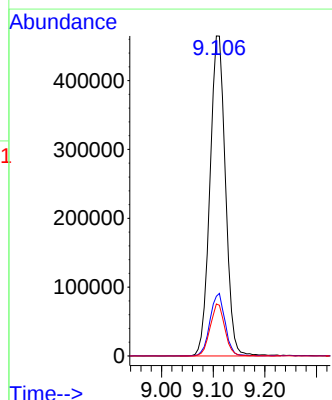
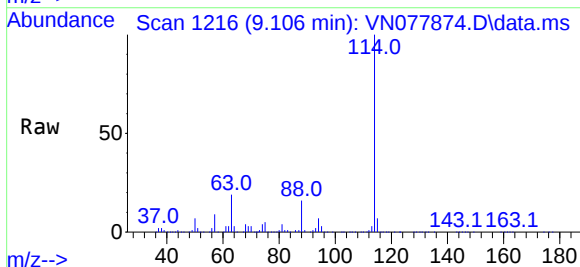
Tgt Ion: 114 Resp: 969996

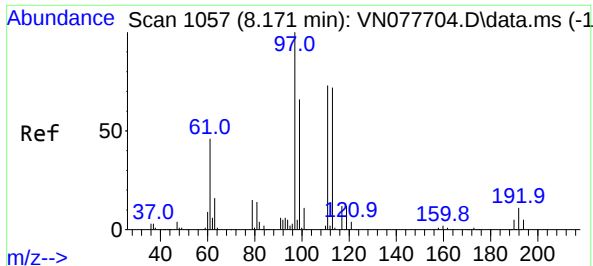
Ion Ratio Lower Upper

114 100

63 18.6 0.0 36.4

88 16.3 0.0 30.6

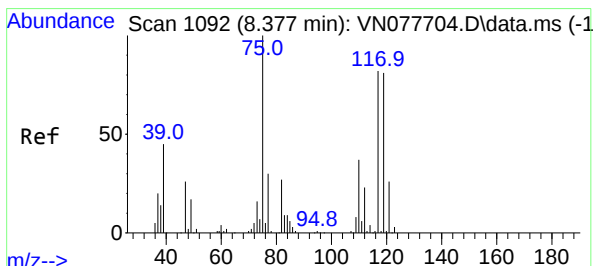
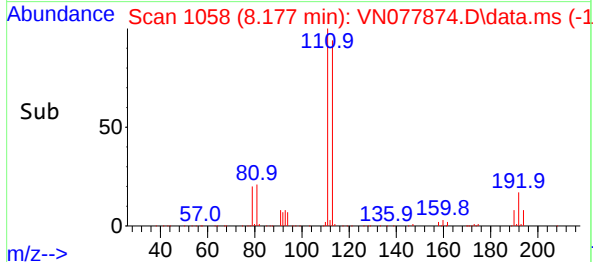
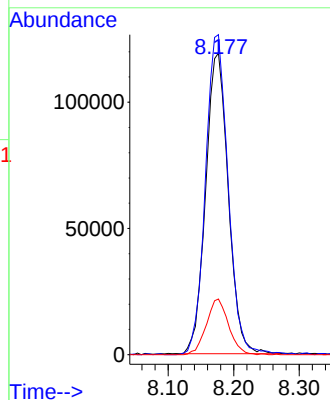
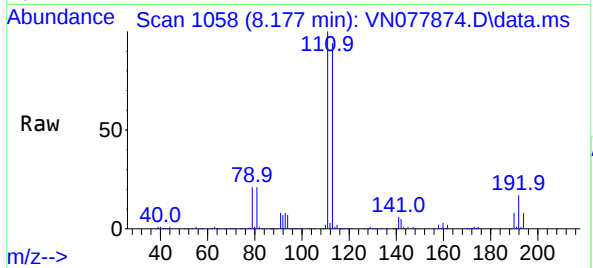




#35
Dibromofluoromethane
Concen: 45.237 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

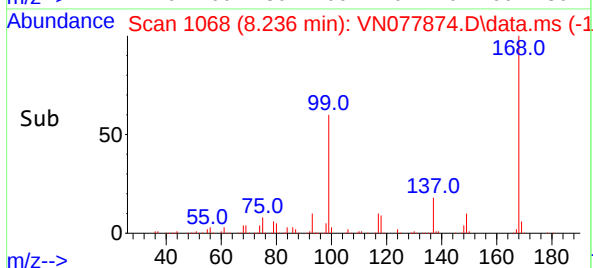
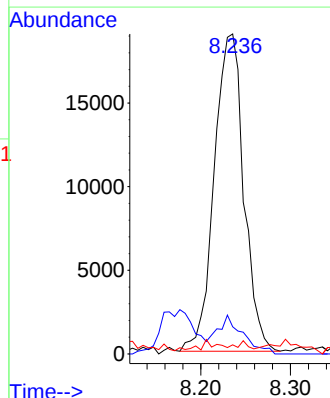
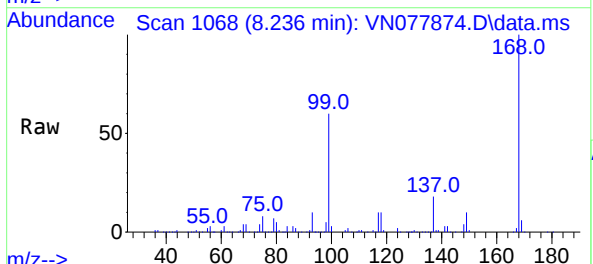
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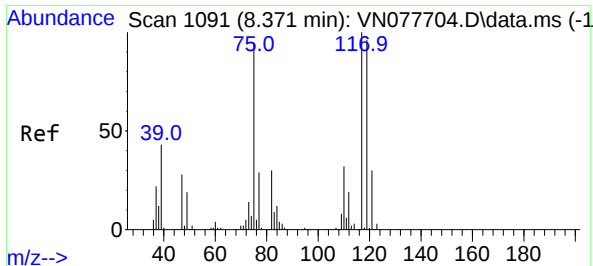
Tgt Ion:113 Resp: 286132
Ion Ratio Lower Upper
113 100
111 106.9 82.6 123.8
192 18.2 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.691 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

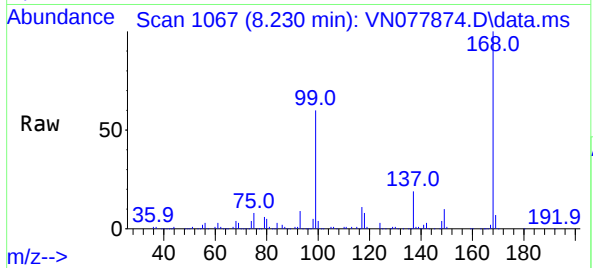
Tgt Ion: 75 Resp: 43395
Ion Ratio Lower Upper
75 100
110 10.7 19.1 57.3#
77 0.7 25.0 37.4#



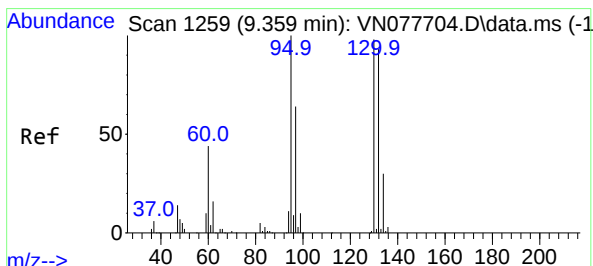
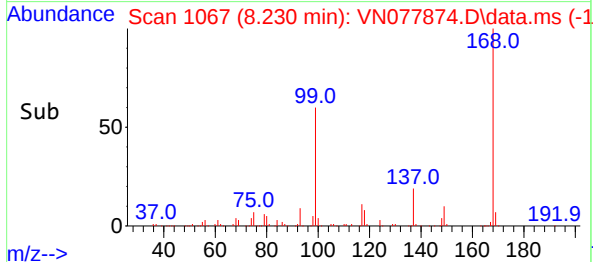
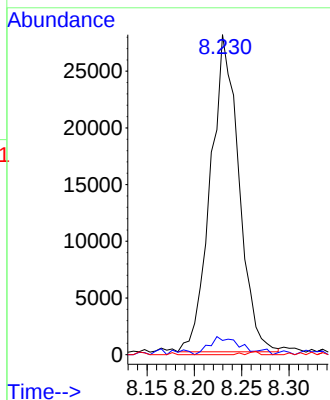


#38
Carbon Tetrachloride
Concen: 6.248 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Instrument : MSVOA_N
ClientSampleId : CB-32-G3-SO-14.5-051823ME

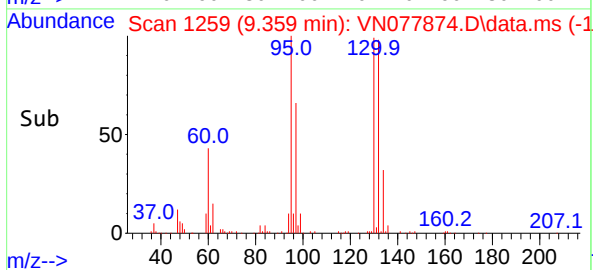
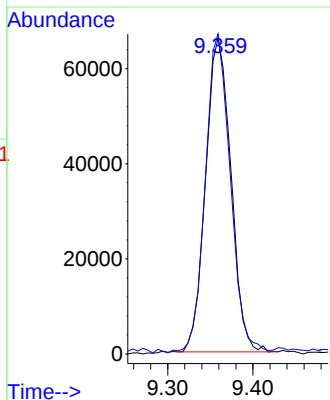
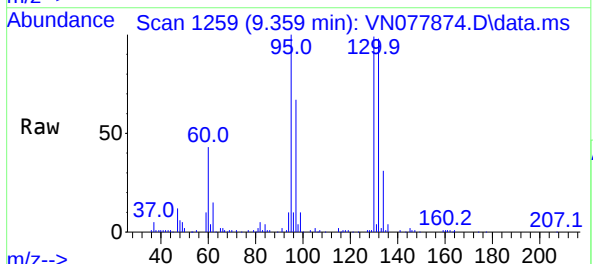


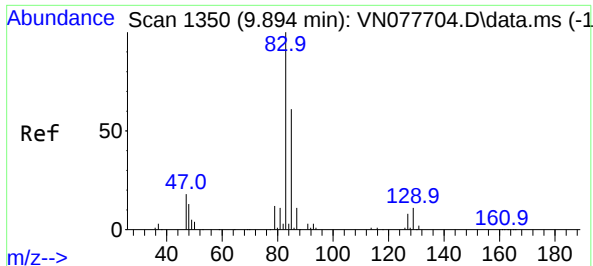
Tgt Ion:117 Resp: 58368
Ion Ratio Lower Upper
117 100
119 3.9 77.3 115.9#
121 0.0 23.3 34.9#



#44
Trichloroethene
Concen: 19.713 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Tgt Ion:130 Resp: 136273
Ion Ratio Lower Upper
130 100
95 100.9 0.0 204.6

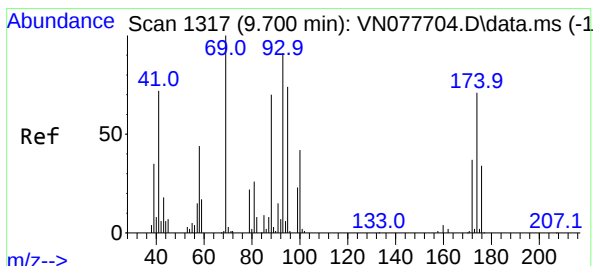
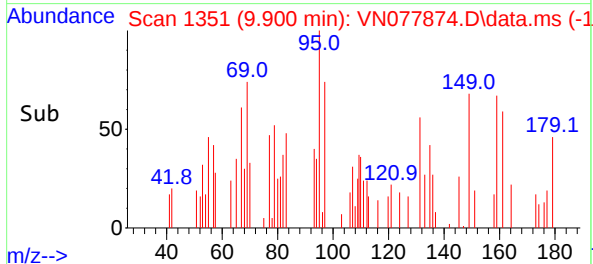
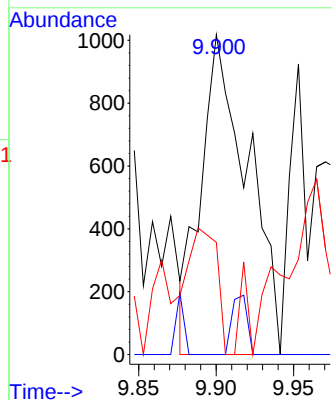
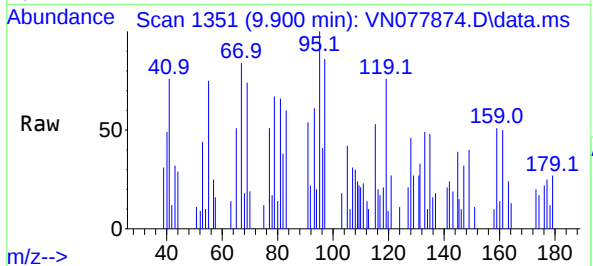




#47
Bromodichloromethane
Concen: 0.225 ug/l
RT: 9.900 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

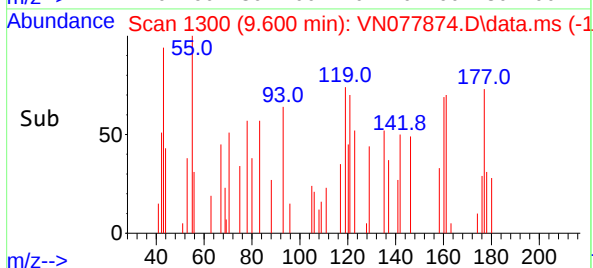
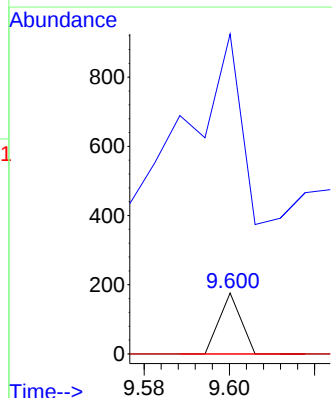
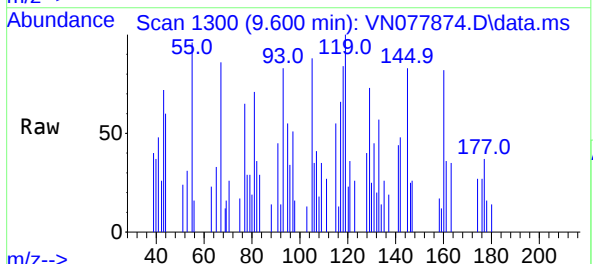
Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

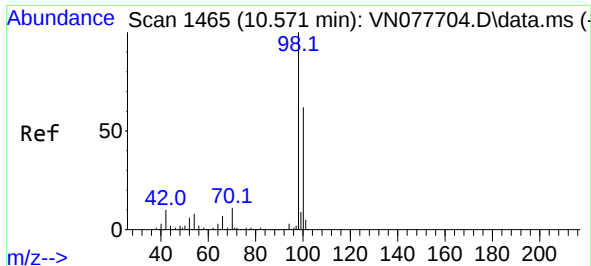
Tgt Ion: 83 Resp: 2147
Ion Ratio Lower Upper
83 100
85 0.0 49.6 74.4#
127 16.6 7.0 10.6#



#49
1,4-Dioxane
Concen: 0.514 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.094 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 2272.6 17.0 25.6#
58 0.0 47.0 70.4#

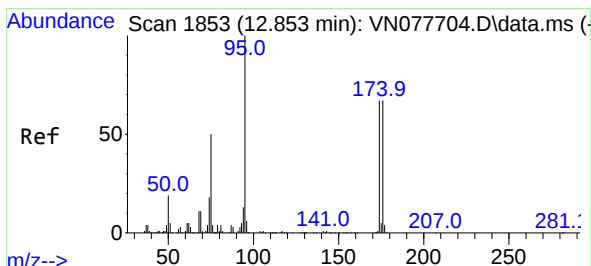
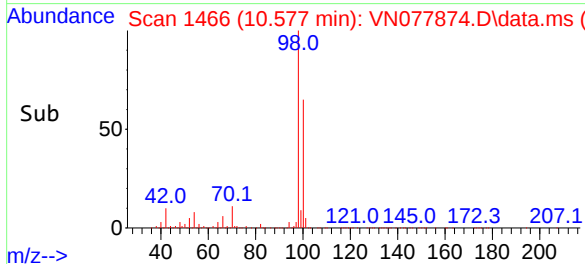
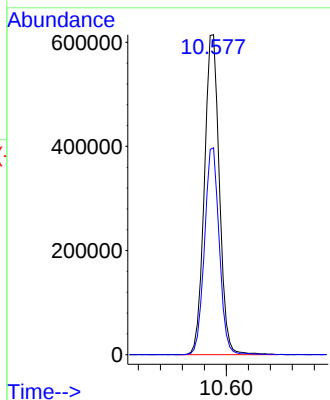
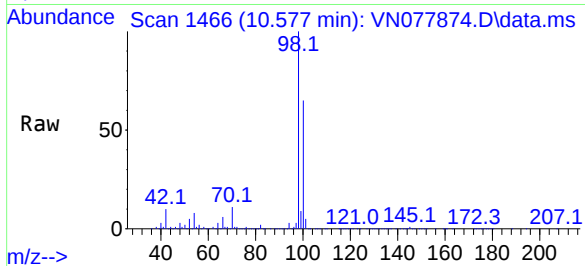




#50
Toluene-d8
Concen: 47.791 ug/l
RT: 10.577 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

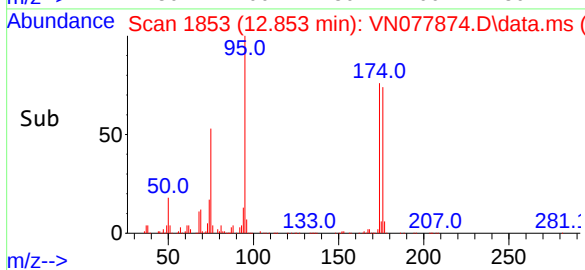
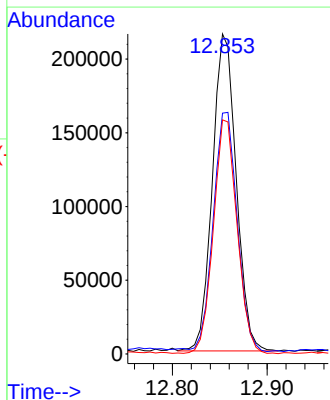
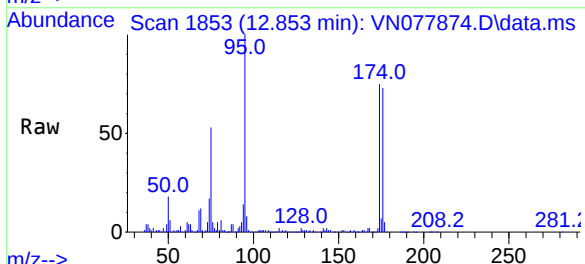
Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

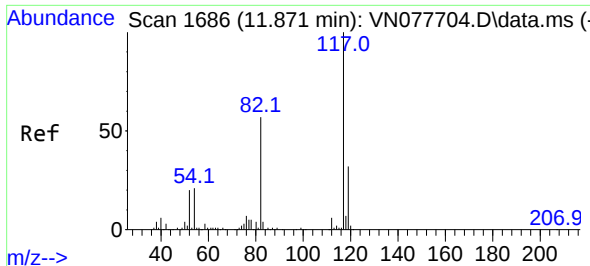
Tgt Ion: 98 Resp: 1163528
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 43.681 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Tgt Ion: 95 Resp: 375600
Ion Ratio Lower Upper
95 100
174 76.2 0.0 143.8
176 73.6 0.0 135.8

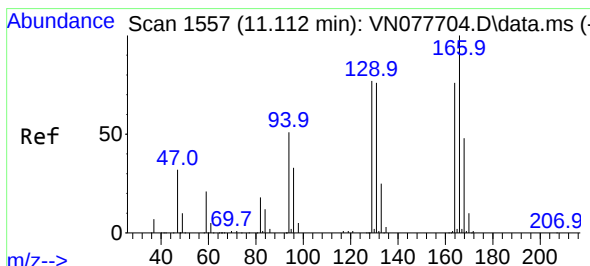
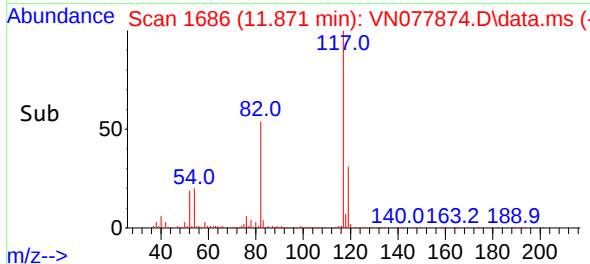
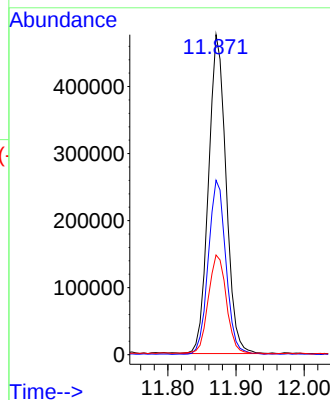
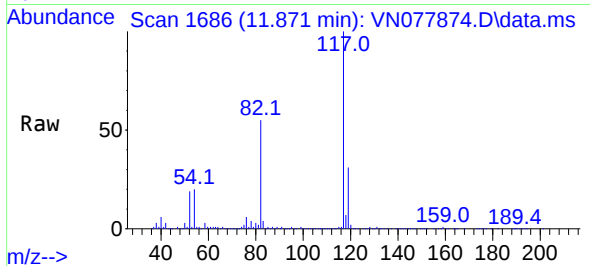




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.001 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

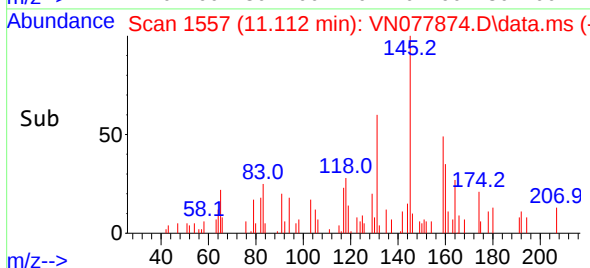
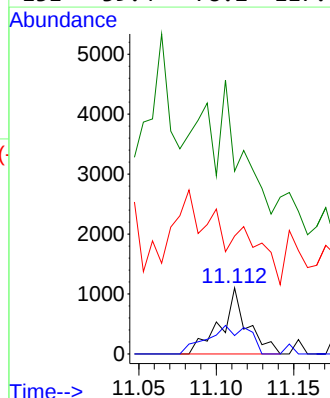
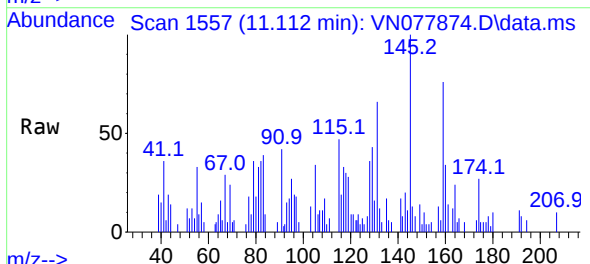
Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

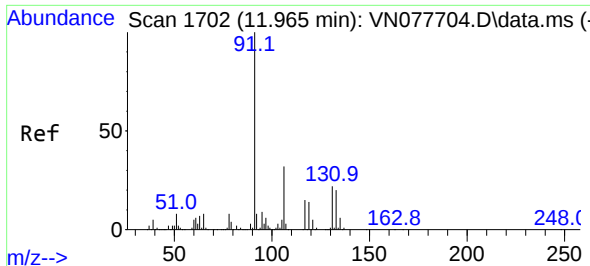
Tgt Ion:	117	Resp:	852963
Ion	Ratio	Lower	Upper
117	100		
82	54.5	44.0	66.0
119	30.9	25.6	38.4



#64
Tetrachloroethene
Concen: 0.220 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. -0.000 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Tgt Ion:	164	Resp:	1311
Ion	Ratio	Lower	Upper
164	100		
166	27.9	101.4	152.0#
129	73.5	82.4	123.6#
131	39.4	78.2	117.4#

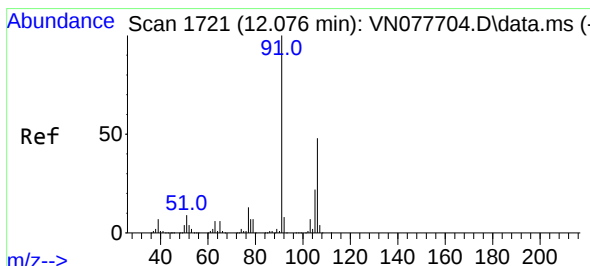
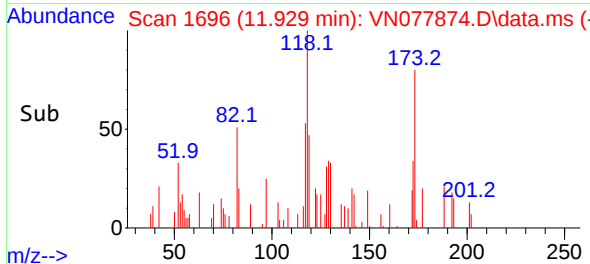
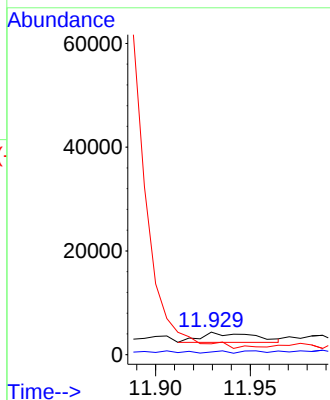
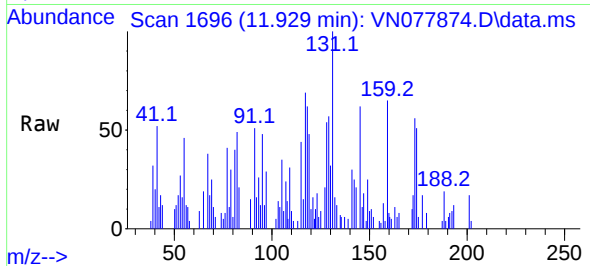




#66
1,1,1,2-Tetrachloroethane
Concen: 0.586 ug/l
RT: 11.929 min Scan# 11
Delta R.T. -0.036 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

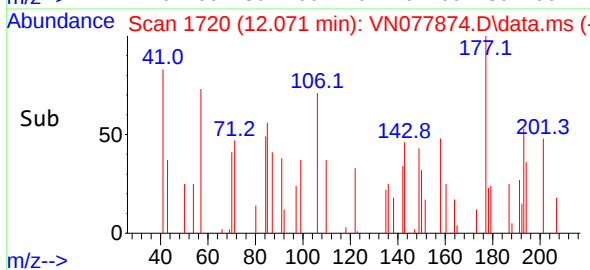
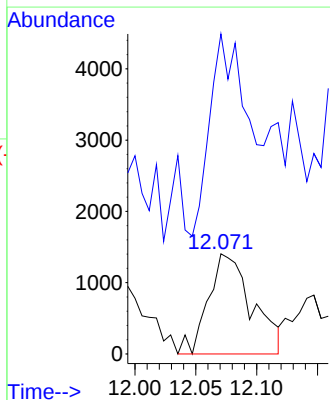
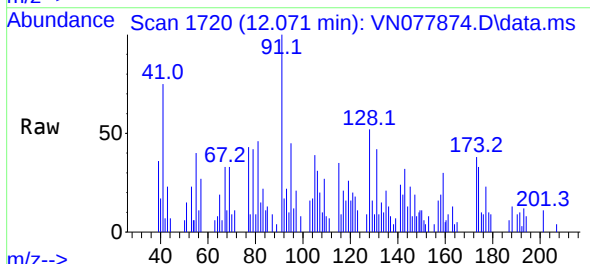
Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

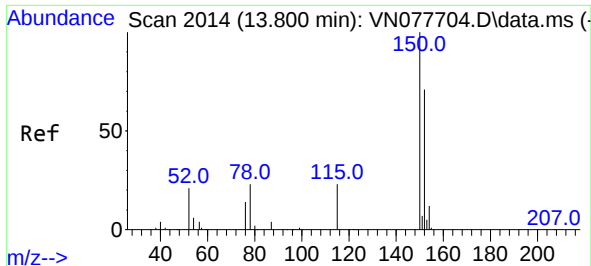
Tgt Ion:131 Resp: 3751
Ion Ratio Lower Upper
131 100
133 0.0 46.4 139.1#
119 0.0 34.1 102.2#



#68
m/p-Xylenes
Concen: 0.281 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.005 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

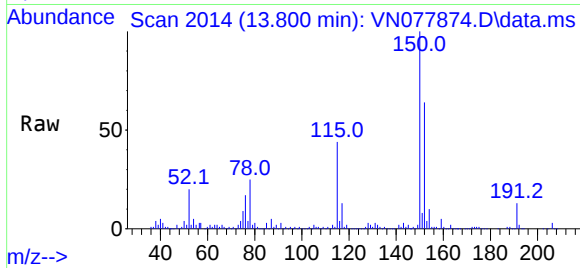
Tgt Ion:106 Resp: 3529
Ion Ratio Lower Upper
106 100
91 176.1 159.6 239.4



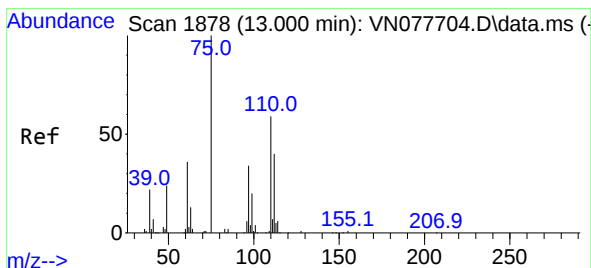
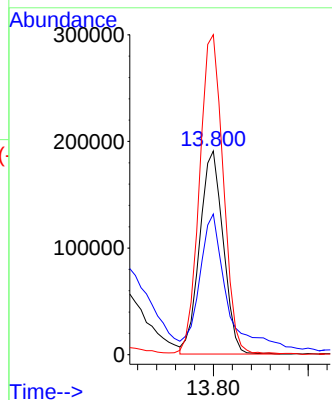
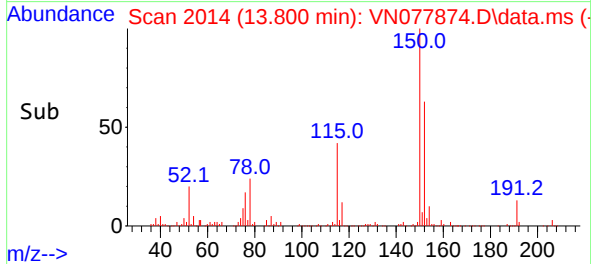


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

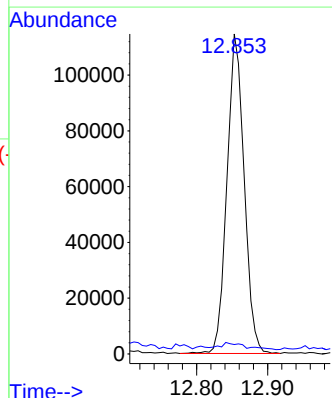
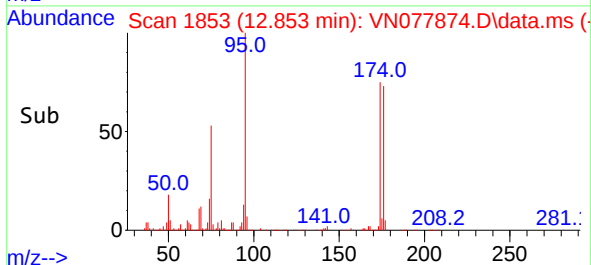
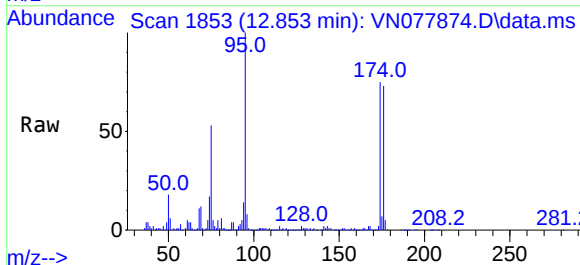


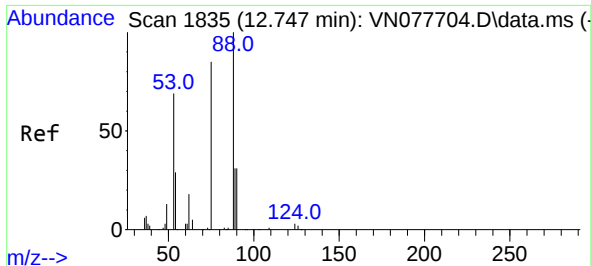
Tgt Ion:152 Resp: 328537
Ion Ratio Lower Upper
152 100
115 77.6 32.3 96.8
150 159.5 0.0 355.8



#76
1,2,3-Trichloropropane
Concen: 23.378 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Tgt Ion: 75 Resp: 192352
Ion Ratio Lower Upper
75 100
77 1.5 84.5 253.5#

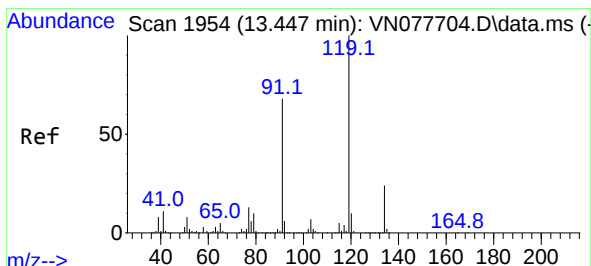
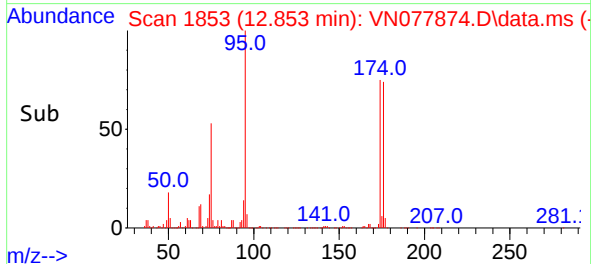
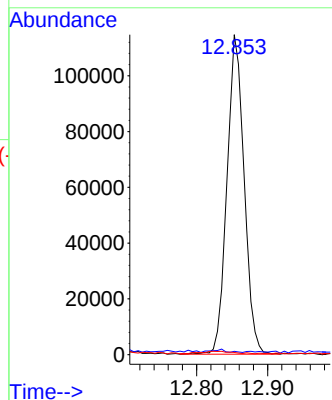
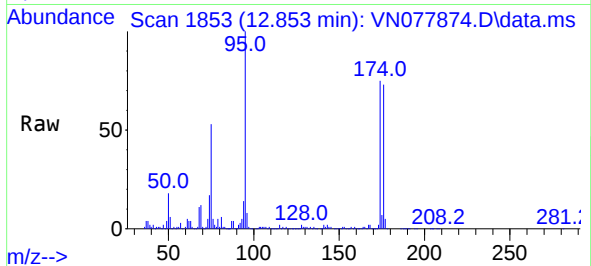




#81
trans-1,4-Dichloro-2-butene
Concen: 74.730 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

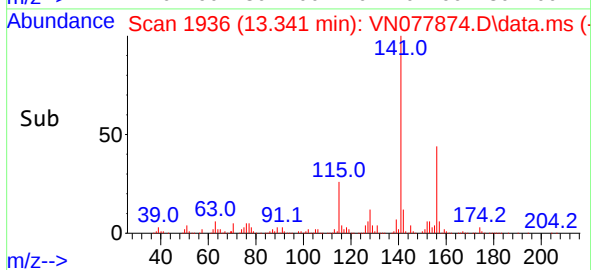
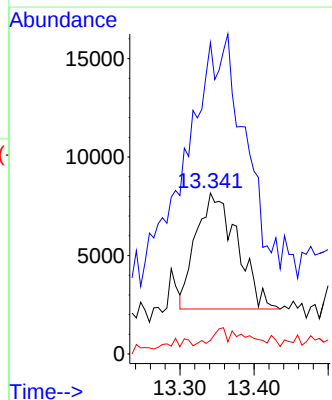
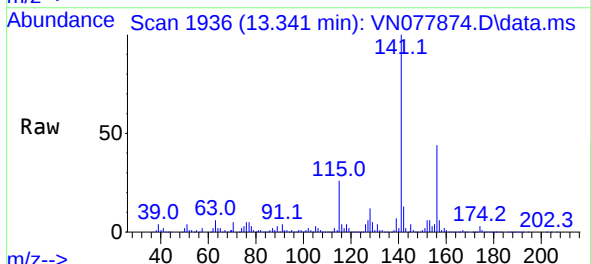
Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

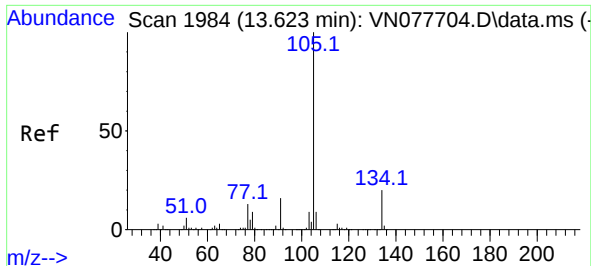
Tgt Ion: 75 Resp: 192352
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#83
tert-Butylbenzene
Concen: 1.093 ug/l
RT: 13.341 min Scan# 1936
Delta R.T. -0.106 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Tgt Ion: 119 Resp: 22705
Ion Ratio Lower Upper
119 100
91 161.6 33.9 101.7#
134 0.0 13.2 39.6#

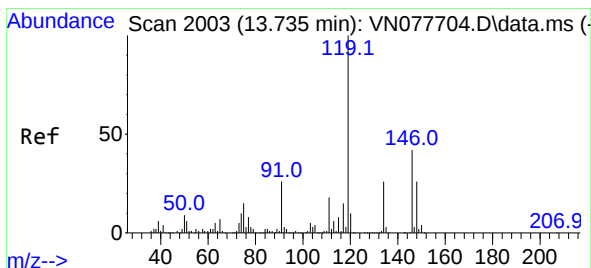
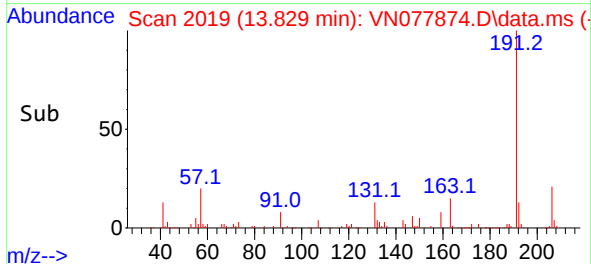
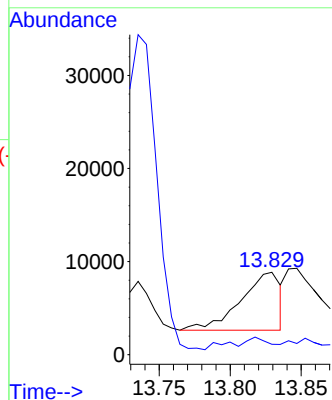
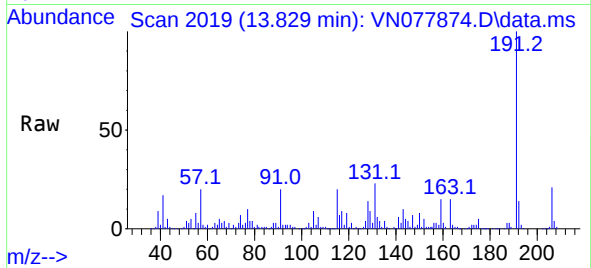




#85
sec-Butylbenzene
Concen: 0.411 ug/l
RT: 13.829 min Scan# 2019
Delta R.T. 0.206 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

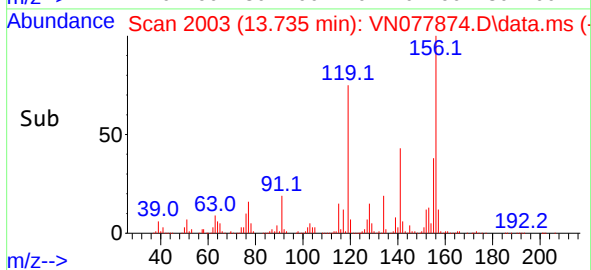
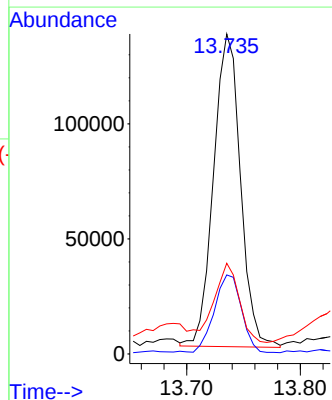
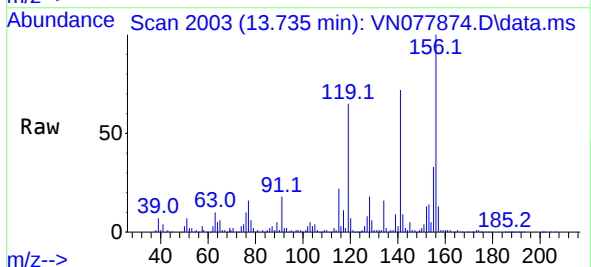
Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

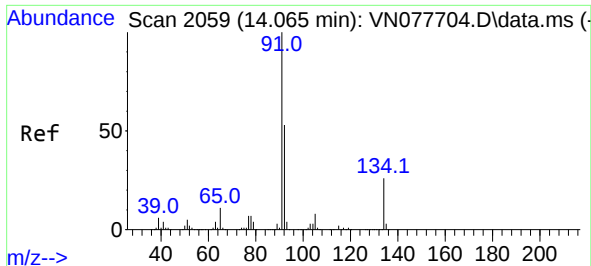
Tgt Ion:105 Resp: 12126
Ion Ratio Lower Upper
105 100
134 20.1 9.8 29.3



#86
p-Isopropyltoluene
Concen: 9.495 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Tgt Ion:119 Resp: 223531
Ion Ratio Lower Upper
119 100
134 25.1 12.6 37.8
91 24.1 12.4 37.2

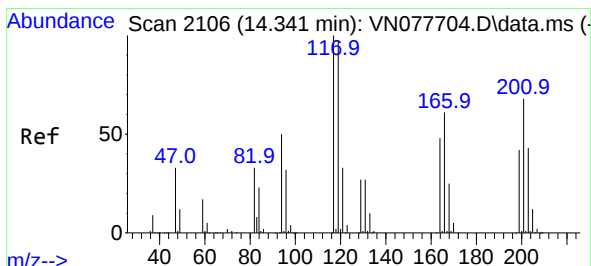
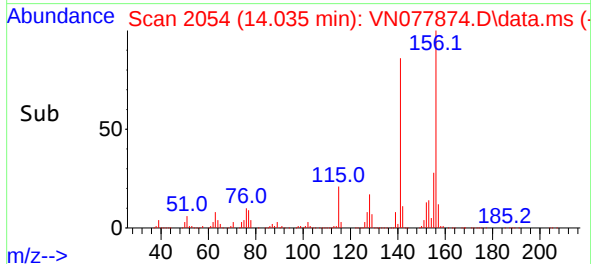
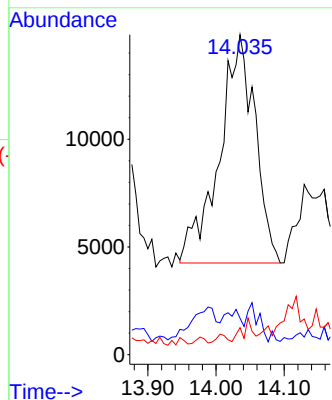
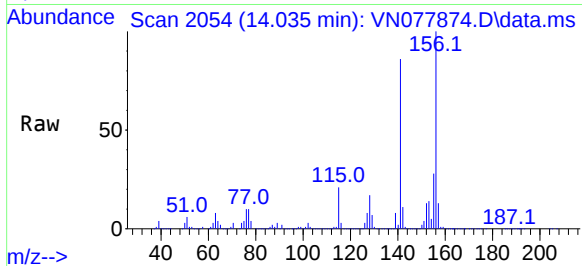




#89
n-Butylbenzene
Concen: 1.791 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. -0.029 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

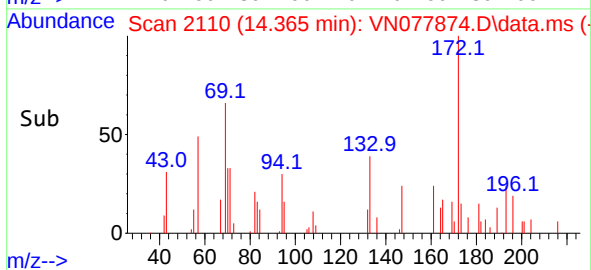
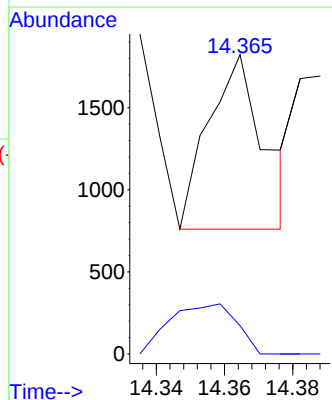
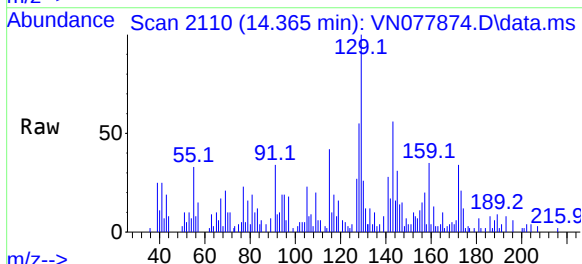
Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

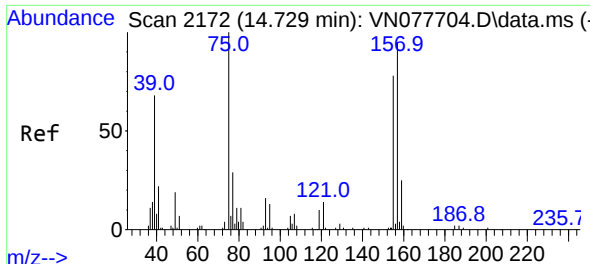
Tgt Ion: 91 Resp: 38786
Ion Ratio Lower Upper
91 100
92 5.3 26.4 79.0#
134 0.0 12.6 37.6#



#90
Hexachloroethane
Concen: 0.308 ug/l
RT: 14.365 min Scan# 2110
Delta R.T. 0.024 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Tgt Ion: 117 Resp: 1191
Ion Ratio Lower Upper
117 100
201 34.8 29.3 88.0

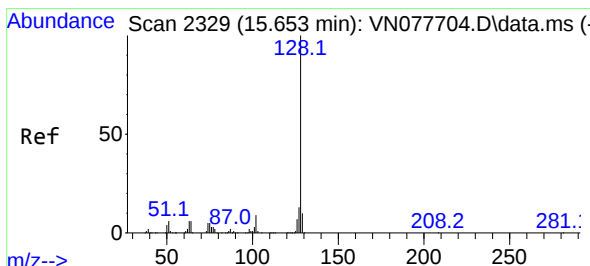
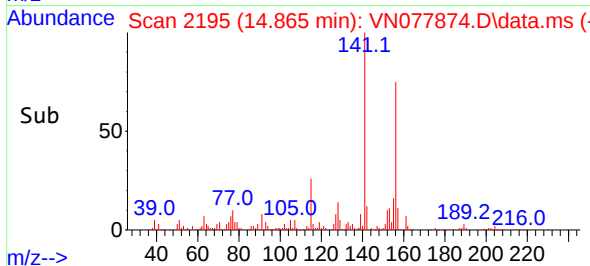
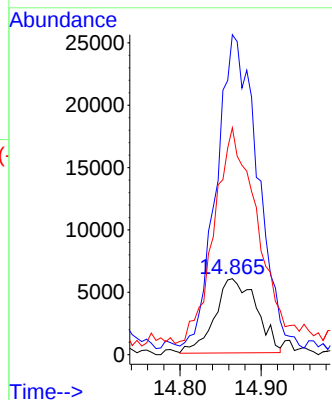
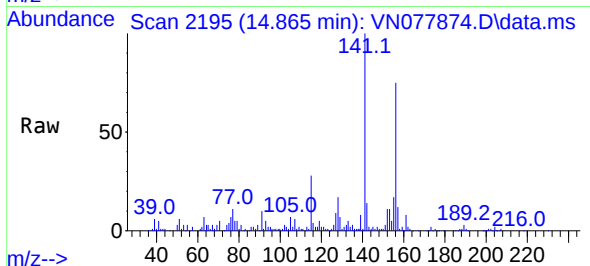




#92
1,2-Dibromo-3-Chloropropane
Concen: 12.597 ug/l
RT: 14.865 min Scan# 2172
Delta R.T. 0.141 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Instrument :
MSVOA_N
ClientSampleId :
CB-32-G3-SO-14.5-051823ME

Tgt Ion: 75 Resp: 21248
Ion Ratio Lower Upper
75 100
155 418.1 39.1 117.2#
157 311.9 50.3 150.9#



#95
Naphthalene
Concen: 7.852 ug/l
RT: 15.653 min Scan# 2329
Delta R.T. 0.006 min
Lab File: VN077874.D
Acq: 25 May 2023 02:11

Tgt Ion:128 Resp: 176356
Ion Ratio Lower Upper
128 100
127 21.8 10.0 15.0#
129 22.0 8.7 13.1#

