

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102822\
 Data File : VN075058.D
 Acq On : 28 Oct 2022 14:12
 Operator : JC\MD
 Sample : N5315-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 221026039-02-VOA

Quant Time: Oct 31 01:50:34 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102522W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 27 10:19:47 2022
 Response via : Initial Calibration

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

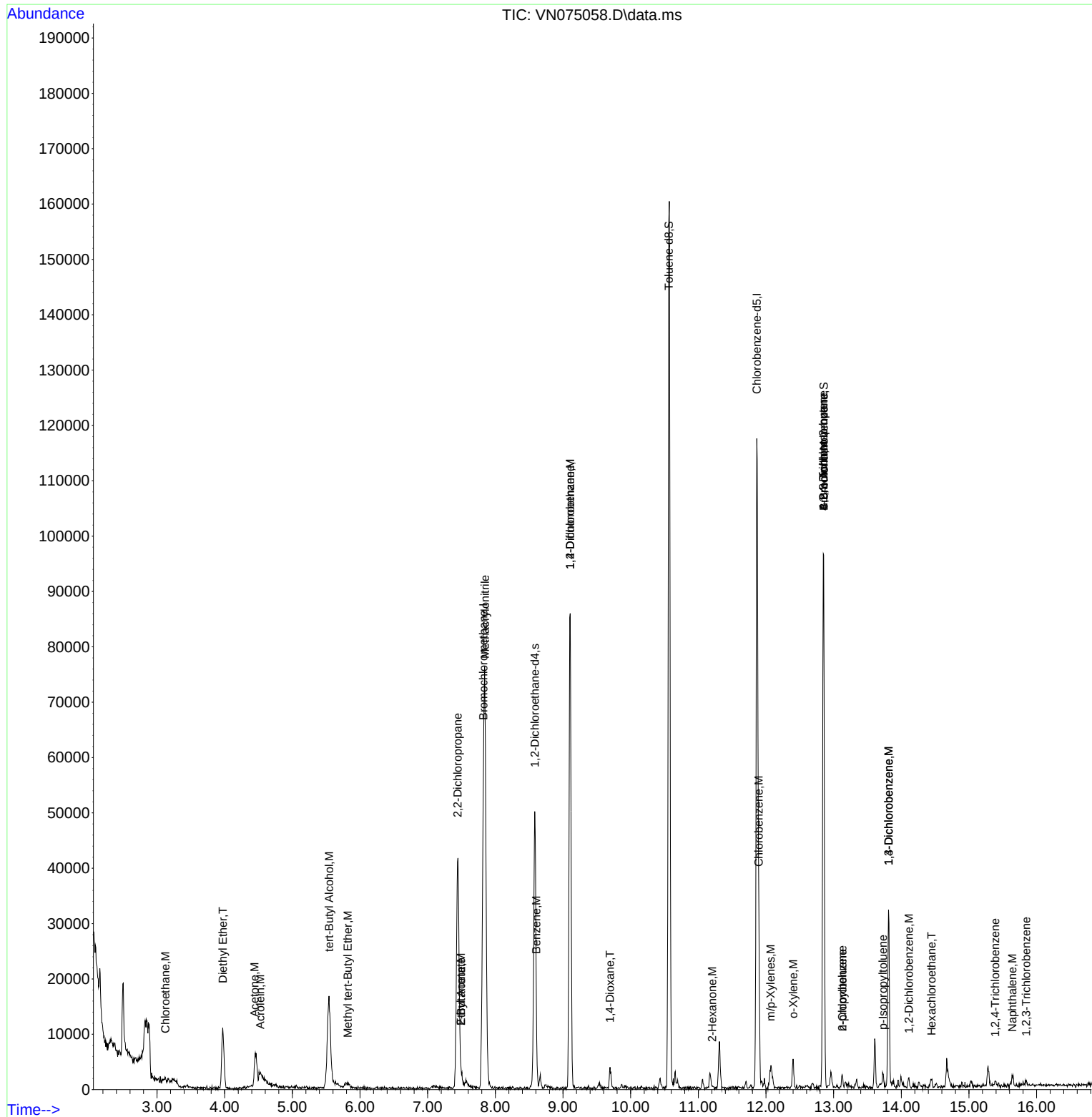
Internal Standards						
1) Bromochloromethane	7.824	128	13321	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	76709	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	64863	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	40786	33.486	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	111.633%#
60) 4-Bromofluorobenzene	12.853	95	33134	25.999	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.667%
63) Toluene-d8	10.565	98	112343	30.967	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.233%
Target Compounds						
					Qvalue	
6) Chloroethane	3.124	64	278	0.279	ug/l #	44
8) Diethyl Ether	3.971	74	6662	11.673	ug/l	90
13) Acrolein	4.524	56	139	0.878	ug/l #	14
15) Acetone	4.442	58	1239	8.303	ug/l #	1
23) tert-Butyl Alcohol	5.542	59	30600	123.758	ug/l #	100
24) Methyl tert-Butyl Ether	5.818	73	819	0.262	ug/l #	53
30) 2-Butanone	7.494	43	964	1.271	ug/l #	77
31) 2,2-Dichloropropane	7.441	77	2876	1.789	ug/l #	53
34) Benzene	8.606	78	1579	0.393	ug/l #	1
35) Methacrylonitrile	7.847	41	26590	36.575	ug/l #	45
36) 1,2-Dichloroethane	9.106	62	2639	1.771	ug/l #	77
43) Ethyl Acetate	7.494	43	964	0.643	ug/l #	83
45) 1,4-Dioxane	9.694	88	2936	99.204	ug/l #	70
56) Bromoform	12.853	173	339	0.379	ug/l #	1
59) 2-Hexanone	11.206	43	303	0.282	ug/l #	34
64) Chlorobenzene	11.894	112	13641	5.242	ug/l	93
67) m/p-Xylenes	12.071	106	1517	0.799	ug/l	84
68) o-Xylene	12.406	106	1628	0.853	ug/l	93
72) 1,2,3-Trichloropropane	12.847	75	19581	13.316	ug/l	1
74) n-propylbenzene	13.129	91	1840	0.331	ug/l	94
75) 2-Chlorotoluene	13.129	91	1840	0.543	ug/l	92
77) t-1,4-Dichloro-2-butene	12.847	75	19581	38.122	ug/l #	8
82) p-Isopropyltoluene	13.729	119	1149	0.258	ug/l #	61
83) 1,3-Dichlorobenzene	13.812	146	12999	5.940	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	12999	6.157	ug/l	99
86) Hexachloroethane	14.447	117	791	0.957	ug/l #	17
87) 1,2-Dichlorobenzene	14.112	146	959	0.443	ug/l	78
89) 1,2,4-Trichlorobenzene	15.388	180	287	0.300	ug/l #	67
91) Naphthalene	15.641	128	2816	0.743	ug/l #	79
92) 1,2,3-Trichlorobenzene	15.847	180	196	0.203	ug/l #	34

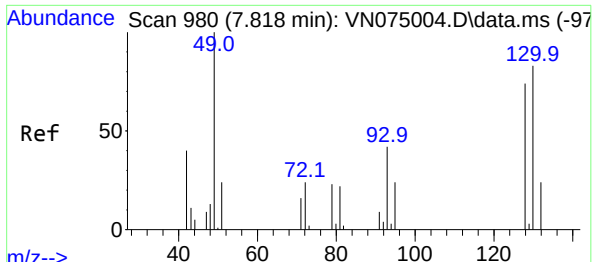
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102822\
Data File : VN075058.D
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Sample : N5315-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

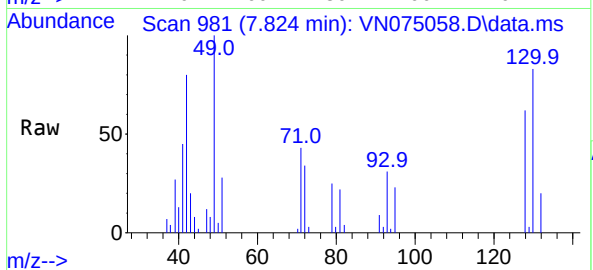
Quant Time: Oct 31 01:50:34 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102522W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 27 10:19:47 2022
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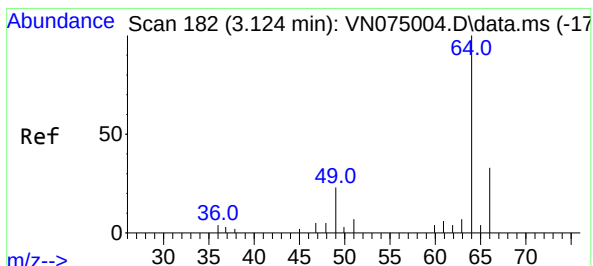
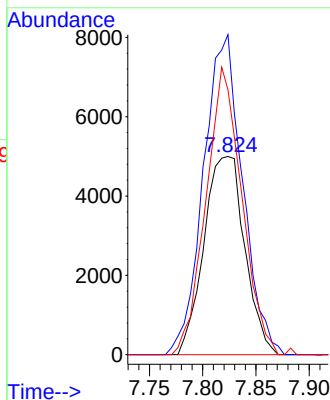
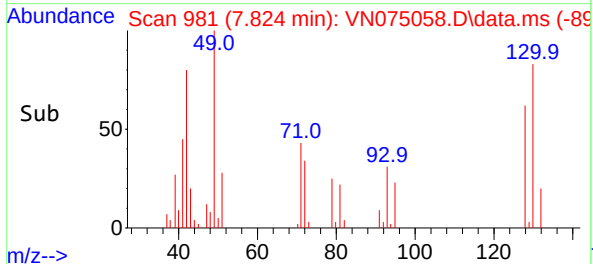


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

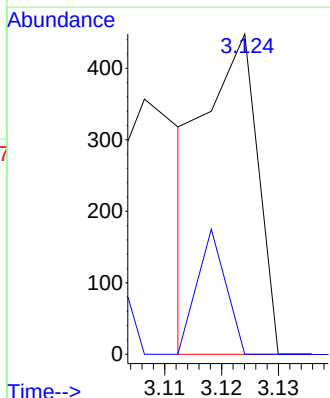
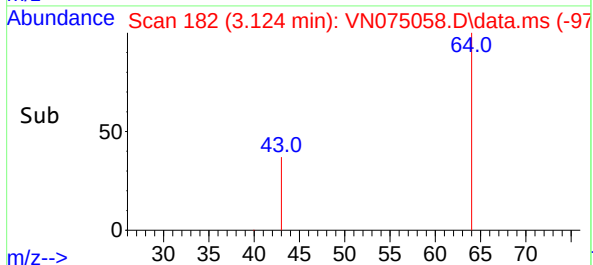
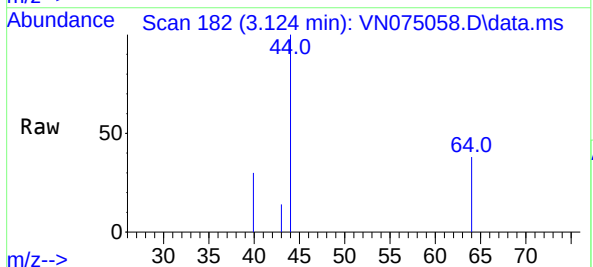


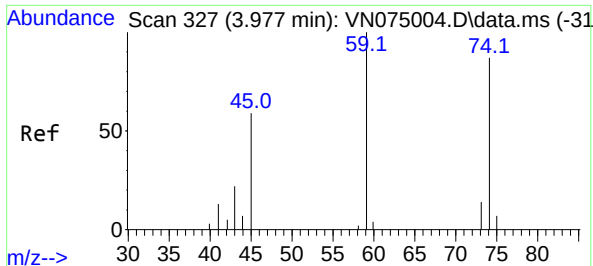
Tgt Ion:128 Resp: 13321
Ion Ratio Lower Upper
128 100
49 154.6 0.0 392.3
130 127.7 0.0 320.2



#6
Chloroethane
Concen: 0.279 ug/l
RT: 3.124 min Scan# 182
Delta R.T. -0.000 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion: 64 Resp: 278
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

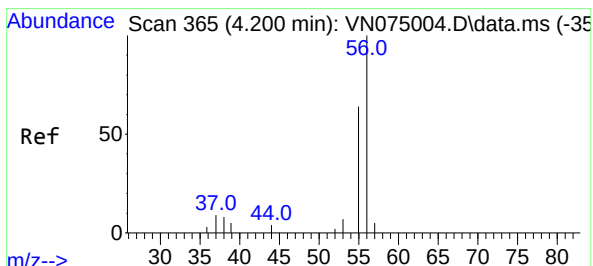
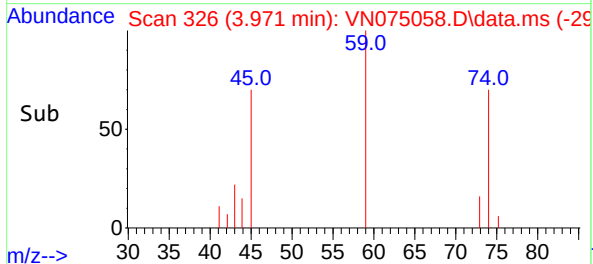
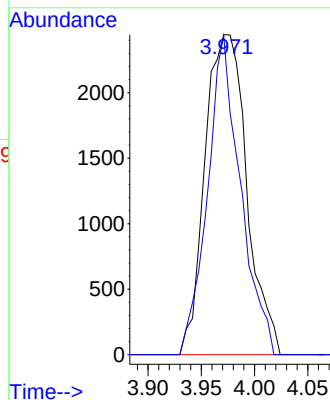
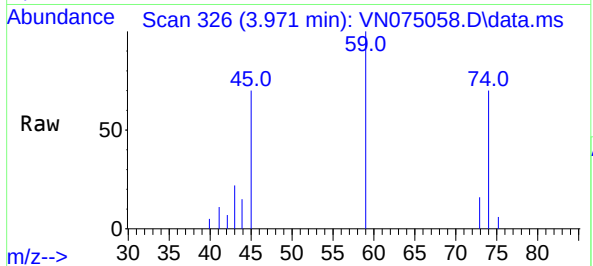




#8
Diethyl Ether
Concen: 11.673 ug/l
RT: 3.971 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

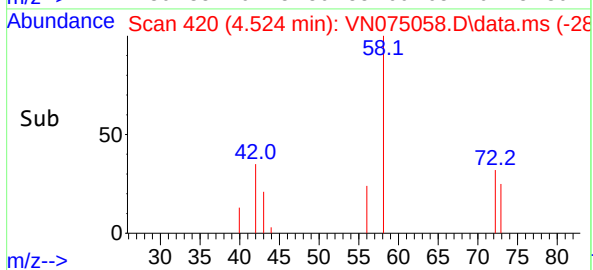
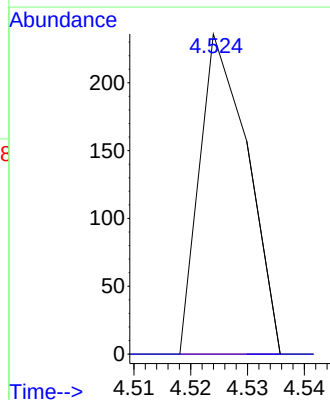
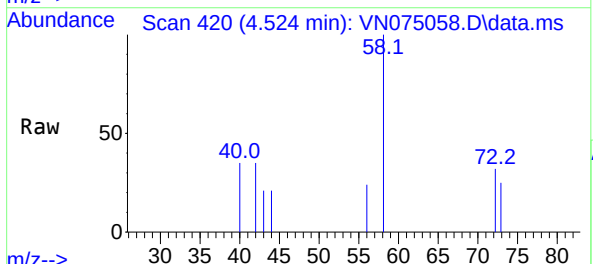
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

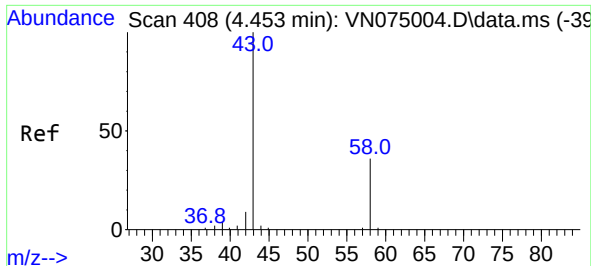
Tgt Ion: 74 Resp: 6662
Ion Ratio Lower Upper
74 100
45 78.6 17.6 158.8



#13
Acrolein
Concen: 0.878 ug/l
RT: 4.524 min Scan# 420
Delta R.T. 0.323 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion: 56 Resp: 139
Ion Ratio Lower Upper
56 100
55 0.0 57.6 86.4#

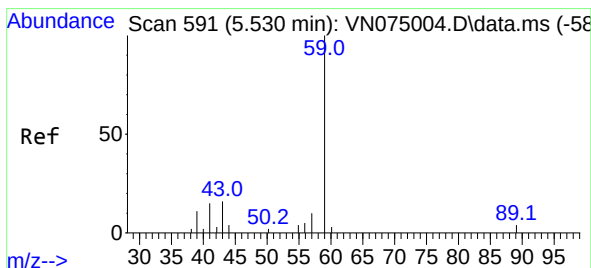
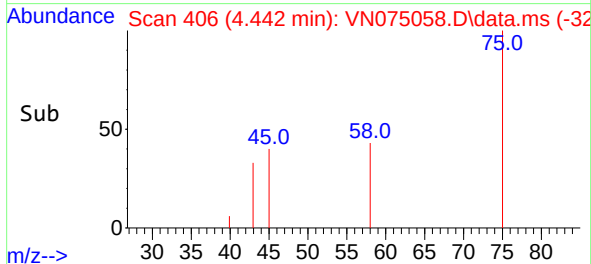
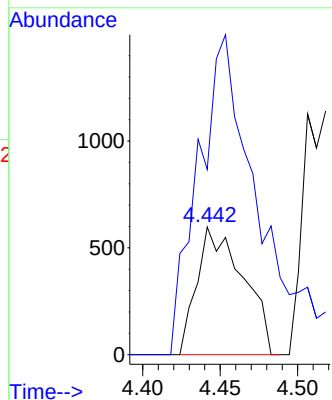
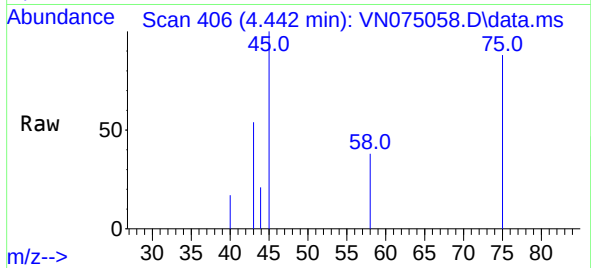




#15
Acetone
Concen: 8.303 ug/l
RT: 4.442 min Scan# 406
Delta R.T. -0.012 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

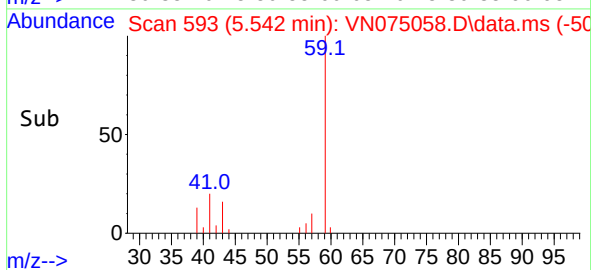
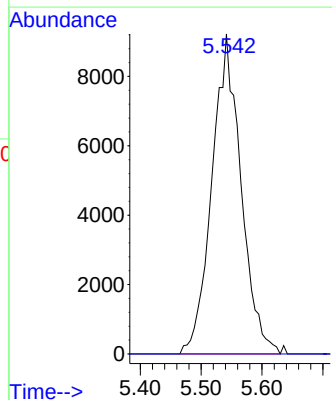
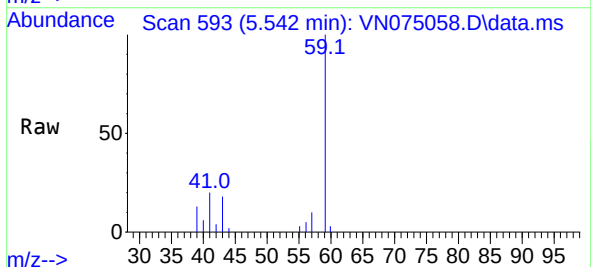
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

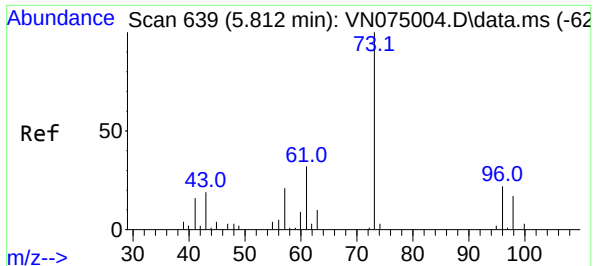
Tgt Ion: 58 Resp: 1239
Ion Ratio Lower Upper
58 100
43 84.8 256.6 384.8#



#23
tert-Butyl Alcohol
Concen: 123.758 ug/l
RT: 5.542 min Scan# 593
Delta R.T. 0.012 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

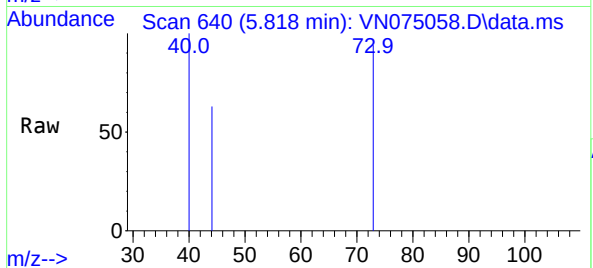
Tgt Ion: 59 Resp: 30600
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



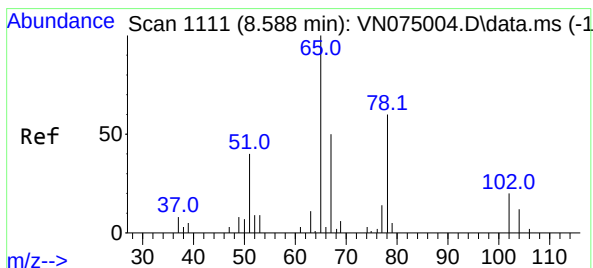
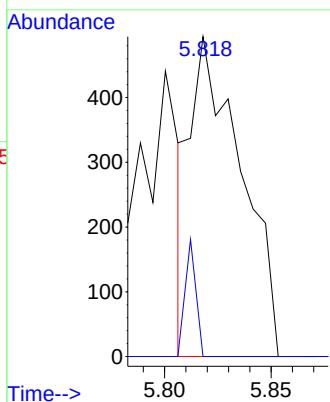
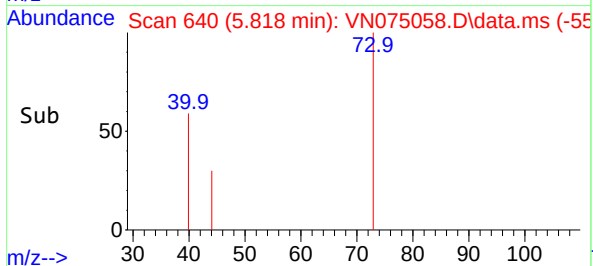


#24
Methyl tert-Butyl Ether
Concen: 0.262 ug/l
RT: 5.818 min Scan# 640
Delta R.T. 0.006 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

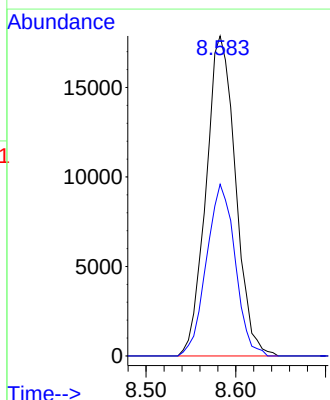
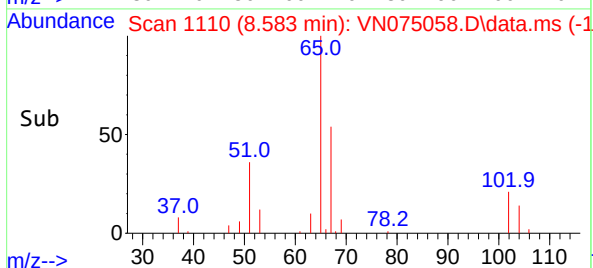
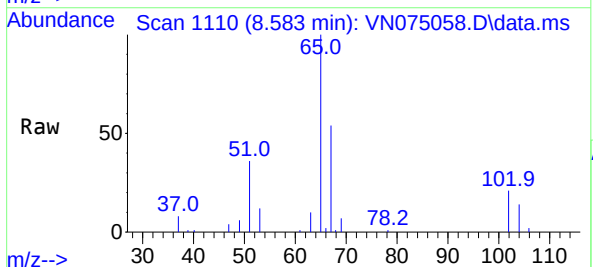


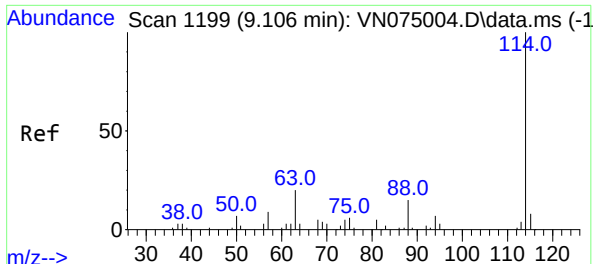
Tgt Ion: 73 Resp: 819
Ion Ratio Lower Upper
73 100
43 0.0 18.1 27.1#



#27
1,2-Dichloroethane-d4
Concen: 33.486 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. -0.006 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion: 65 Resp: 40786
Ion Ratio Lower Upper
65 100
67 52.2 40.2 60.2



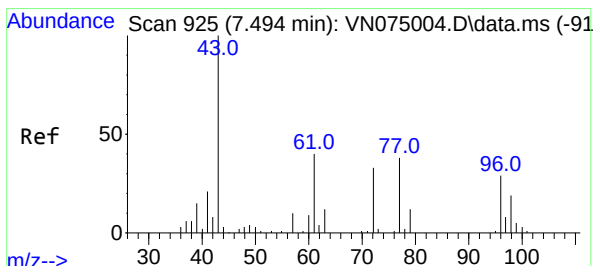
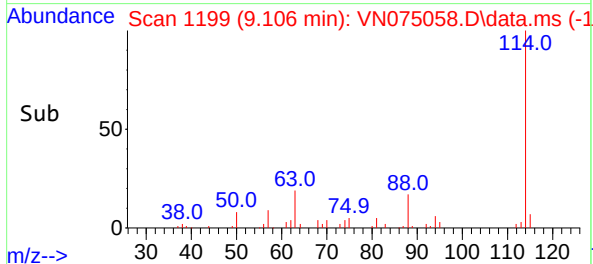
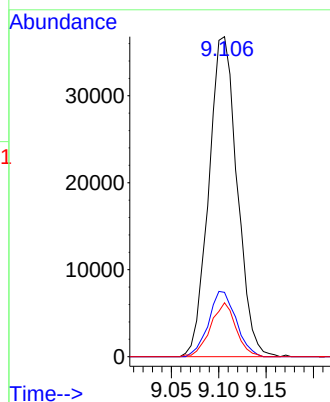
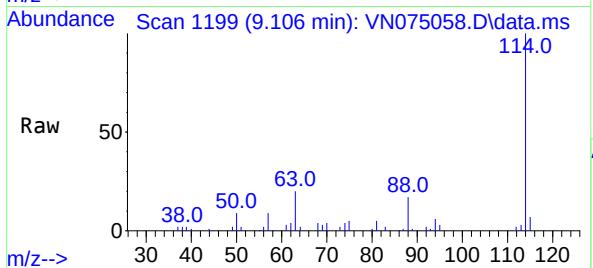


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. -0.000 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

Tgt Ion:114 Resp: 76709

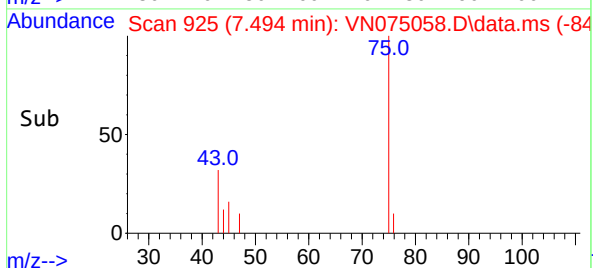
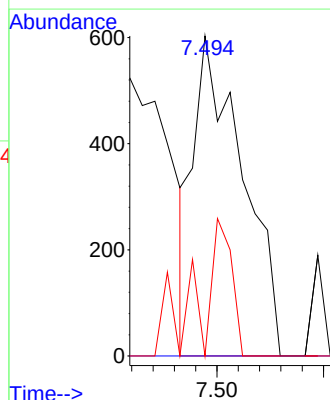
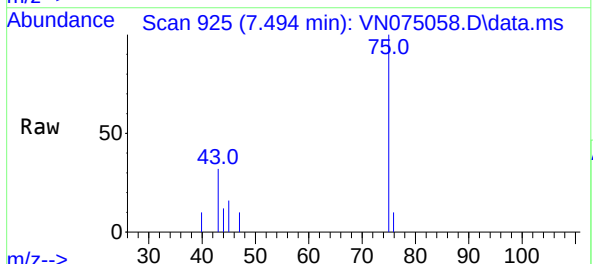
Ion	Ratio	Lower	Upper
114	100		
63	19.8	15.8	23.6
88	15.2	11.6	17.4

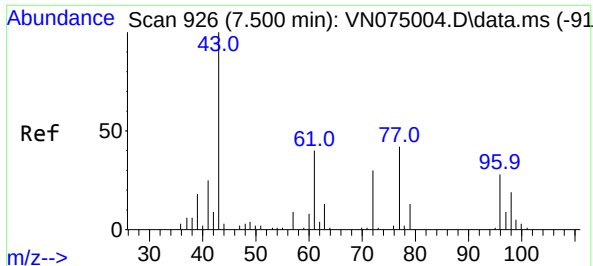


#30
2-Butanone
Concen: 1.271 ug/l
RT: 7.494 min Scan# 925
Delta R.T. -0.000 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion: 43 Resp: 964

Ion	Ratio	Lower	Upper
43	100		
57	0.0	6.7	10.1#
72	16.8	23.2	34.8#





#31

2,2-Dichloropropane

Concen: 1.789 ug/l

RT: 7.441 min Scan# 91

Delta R.T. -0.059 min

Lab File: VN075058.D

Acq: 28 Oct 2022 14:12

Instrument :

MSVOA_N

ClientSampleId :

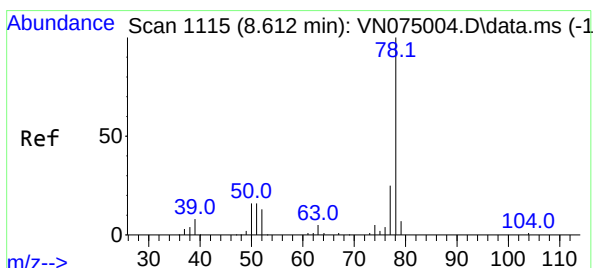
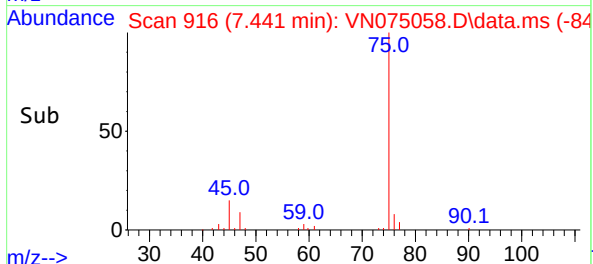
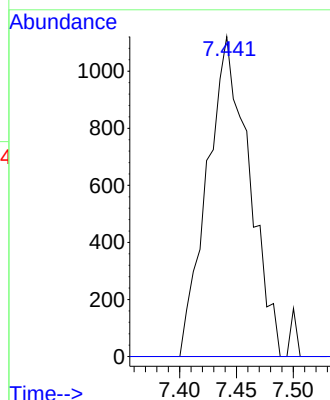
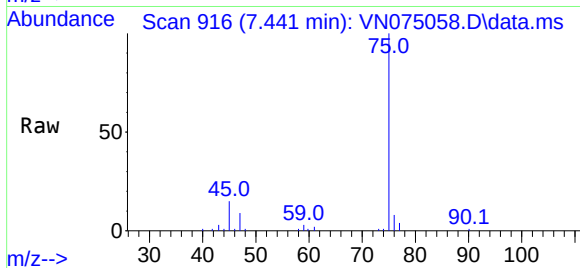
221026039-02-VOA

Tgt Ion: 77 Resp: 2876

Ion Ratio Lower Upper

77 100

97 0.0 18.3 27.5#



#34

Benzene

Concen: 0.393 ug/l

RT: 8.606 min Scan# 1114

Delta R.T. -0.006 min

Lab File: VN075058.D

Acq: 28 Oct 2022 14:12

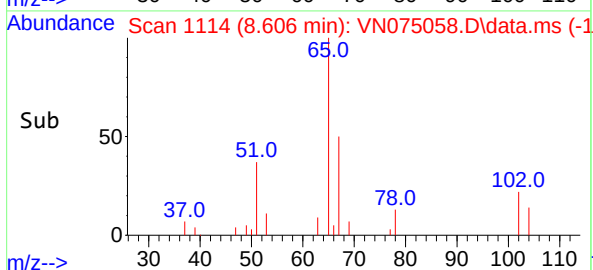
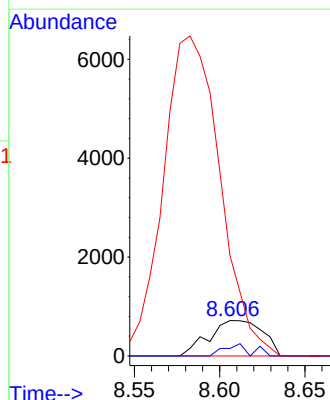
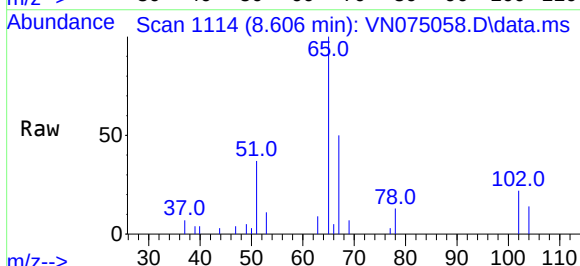
Tgt Ion: 78 Resp: 1579

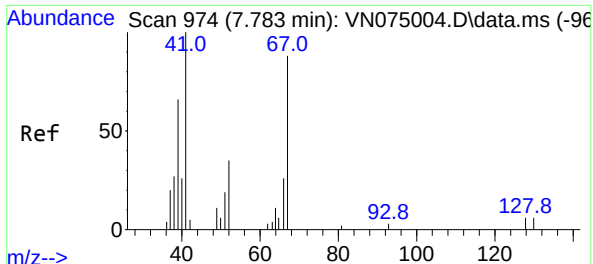
Ion Ratio Lower Upper

78 100

77 21.2 19.1 28.7

51 283.7 16.0 24.0#

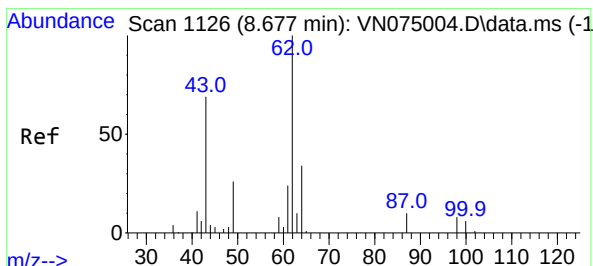
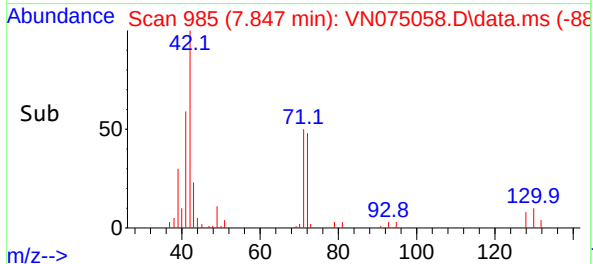
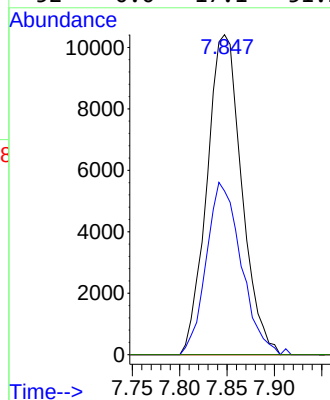
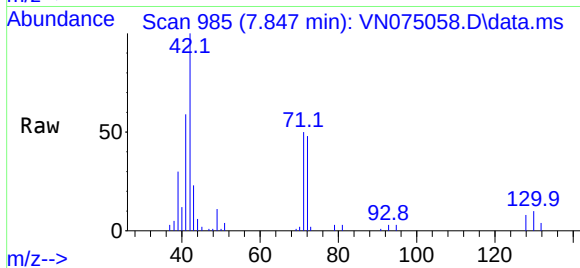




#35
Methacrylonitrile
Concen: 36.575 ug/l
RT: 7.847 min Scan# 91
Delta R.T. 0.065 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

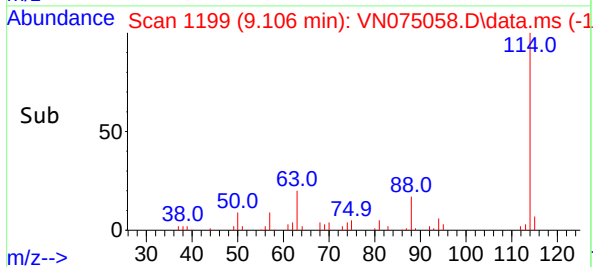
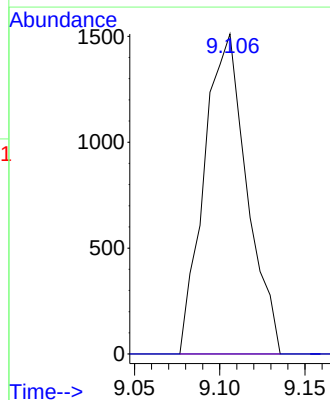
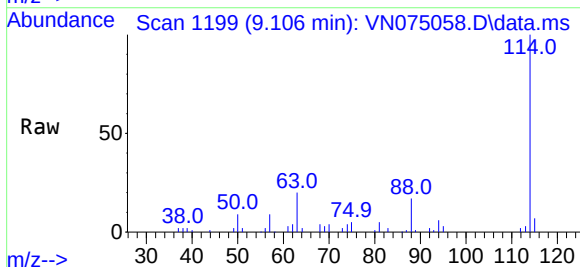
Instrument :
MSVOA_N
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221026039-02-VOA

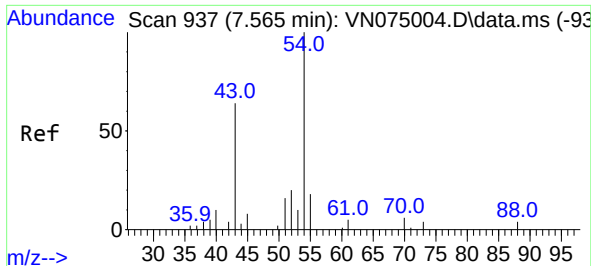
Tgt Ion:	41	Resp:	26590
Ion	Ratio	Lower	Upper
41	100		
39	51.2	28.0	83.9
67	0.0	37.7	113.1#
52	0.0	17.1	51.2#



#36
1,2-Dichloroethane
Concen: 1.771 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. 0.429 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion:	62	Resp:	2639
Ion	Ratio	Lower	Upper
62	100		
98	0.0	6.6	10.0#

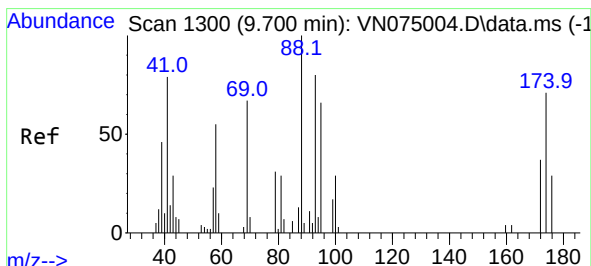
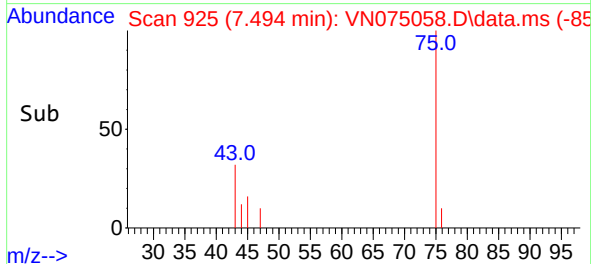
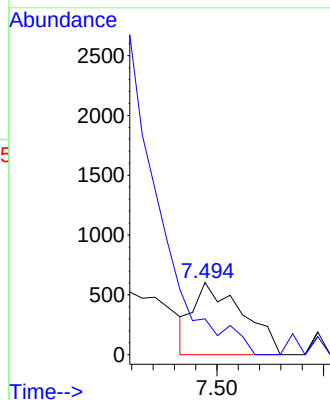
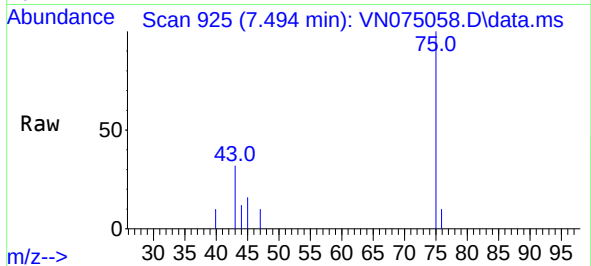




#43
Ethyl Acetate
Concen: 0.643 ug/l
RT: 7.494 min Scan# 91
Delta R.T. -0.071 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

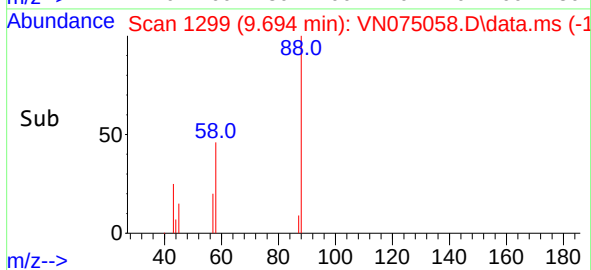
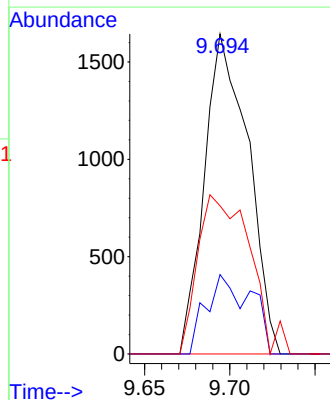
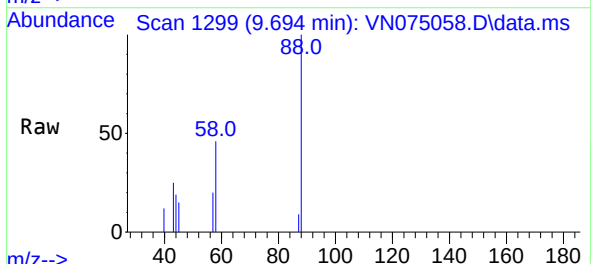
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

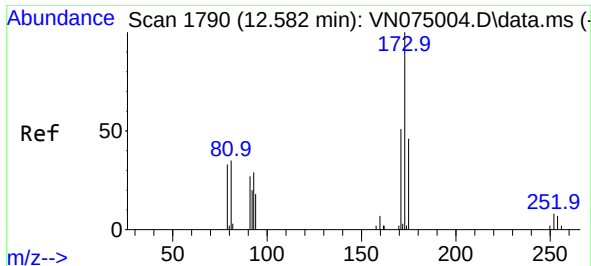
Tgt Ion: 43 Resp: 964
Ion Ratio Lower Upper
43 100
45 6.4 10.6 16.0#



#45
1,4-Dioxane
Concen: 99.204 ug/l
RT: 9.694 min Scan# 1299
Delta R.T. -0.006 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

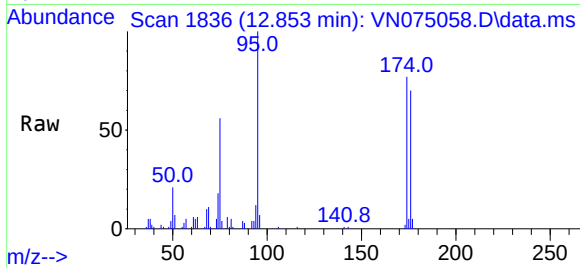
Tgt Ion: 88 Resp: 2936
Ion Ratio Lower Upper
88 100
43 17.5 25.0 37.6#
58 37.3 49.4 74.2#



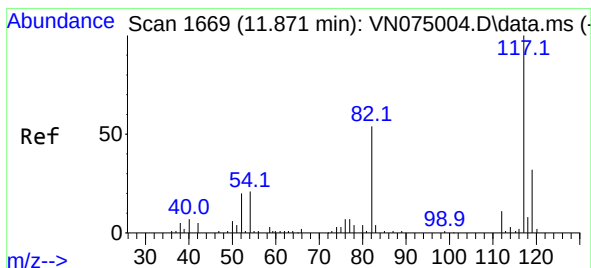
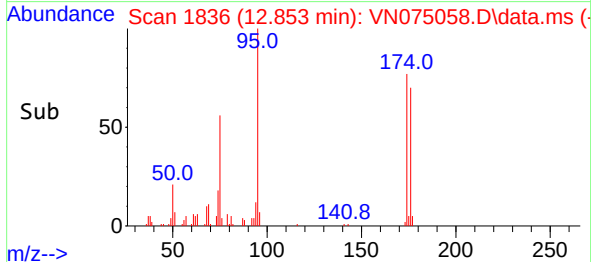
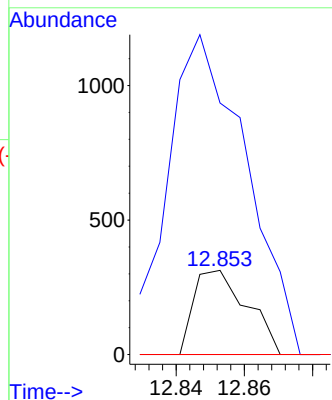


#56
Bromoform
Concen: 0.379 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

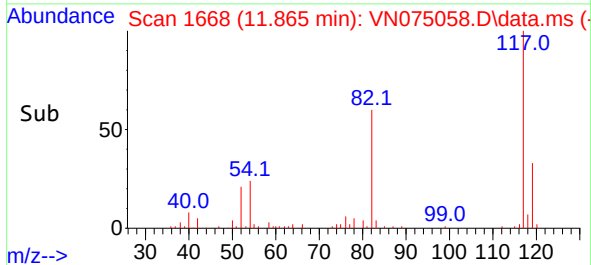
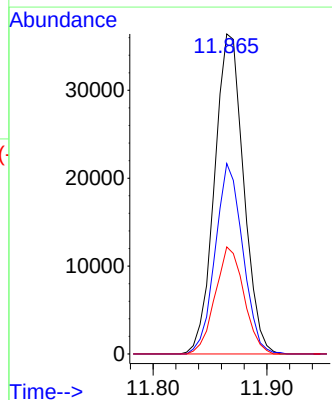
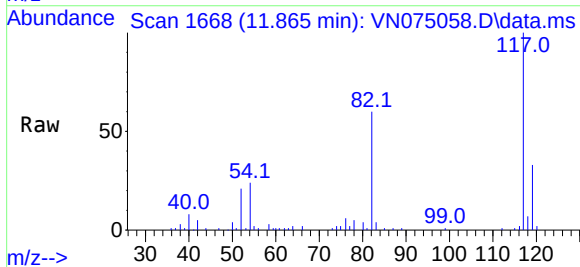


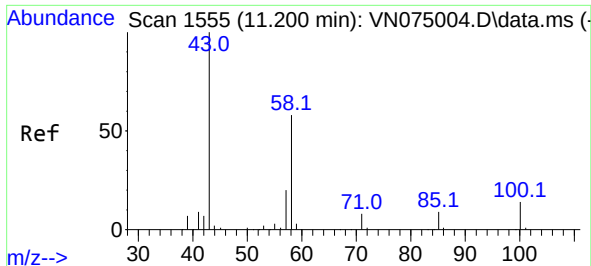
Tgt Ion:173 Resp: 339
Ion Ratio Lower Upper
173 100
175 567.0 38.6 58.0#
254 0.0 0.0 0.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. -0.006 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion:117 Resp: 64863
Ion Ratio Lower Upper
117 100
82 56.5 43.6 65.4
119 33.1 25.8 38.6

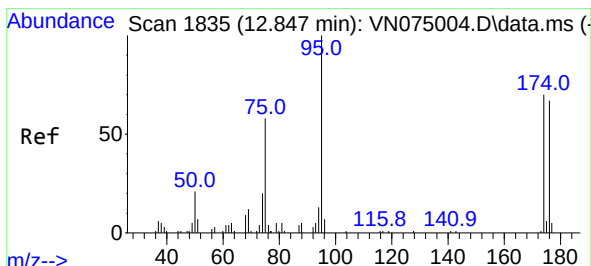
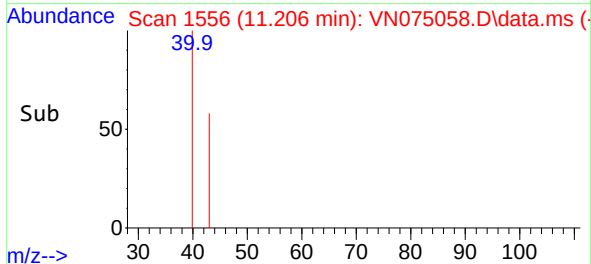
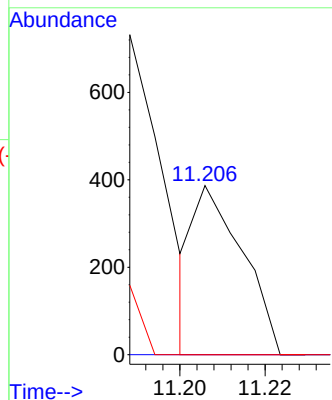
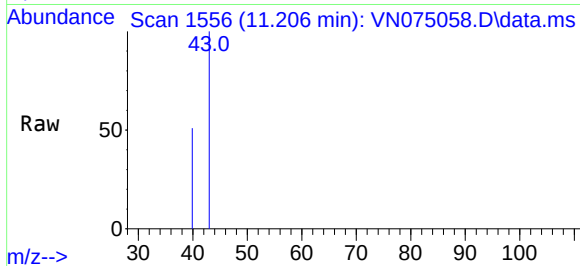




#59
2-Hexanone
Concen: 0.282 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

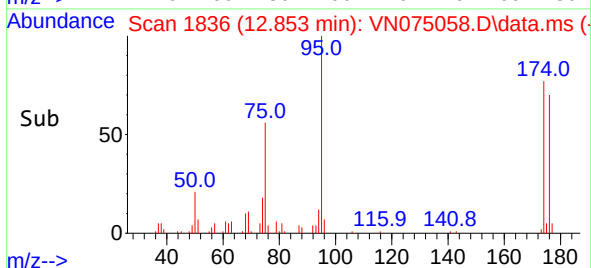
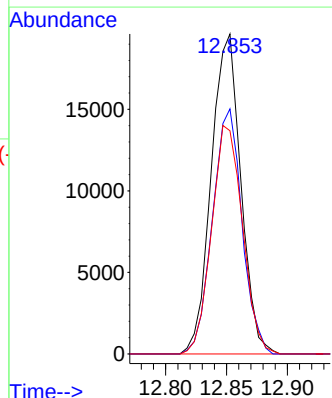
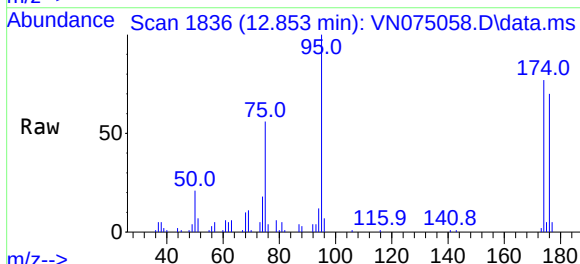
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

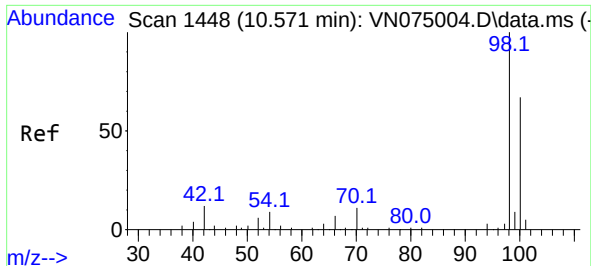
Tgt Ion: 43 Resp: 303
Ion Ratio Lower Upper
43 100
58 0.0 42.2 63.2#
57 0.0 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 25.999 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion: 95 Resp: 33134
Ion Ratio Lower Upper
95 100
174 76.5 62.9 94.3
176 74.6 61.0 91.4

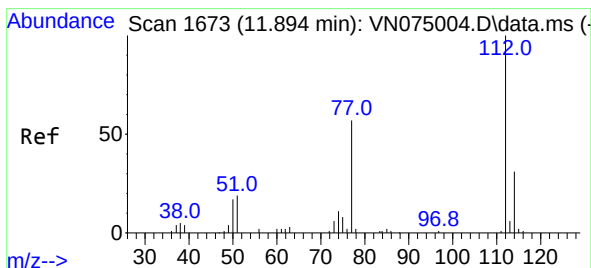
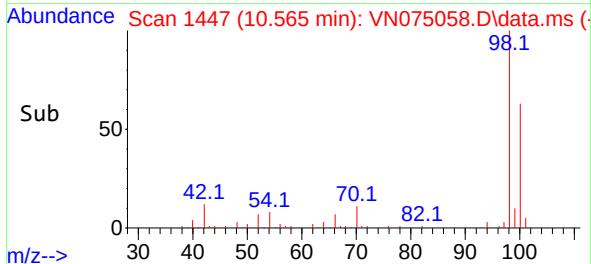
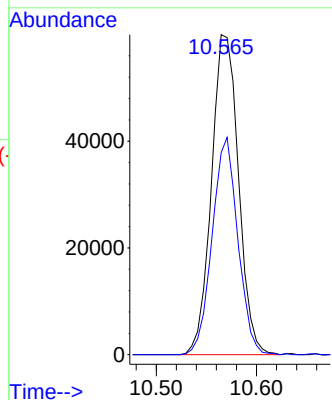
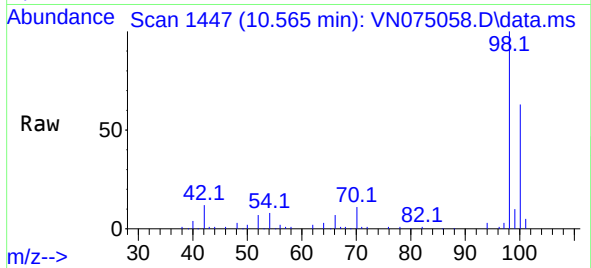




#63
Toluene-d8
Concen: 30.967 ug/l
RT: 10.565 min Scan# 1447
Delta R.T. -0.006 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

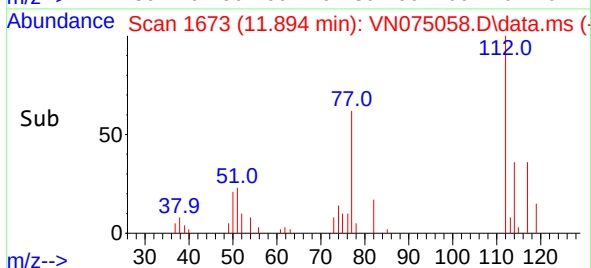
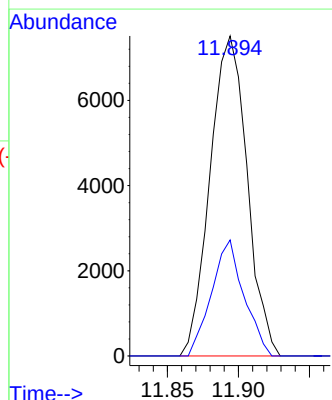
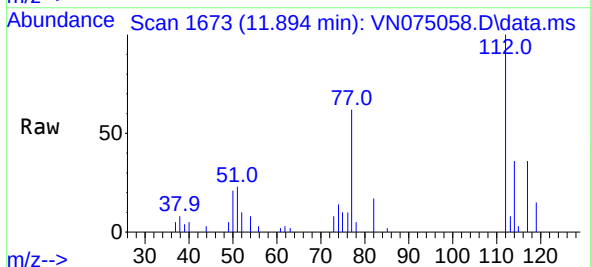
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

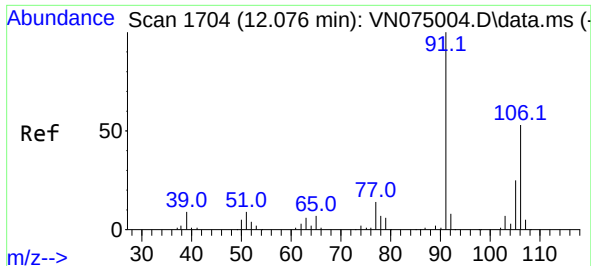
Tgt Ion: 98 Resp: 112343
Ion Ratio Lower Upper
98 100
100 64.4 50.6 76.0



#64
Chlorobenzene
Concen: 5.242 ug/l
RT: 11.894 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion: 112 Resp: 13641
Ion Ratio Lower Upper
112 100
114 36.2 25.8 38.6

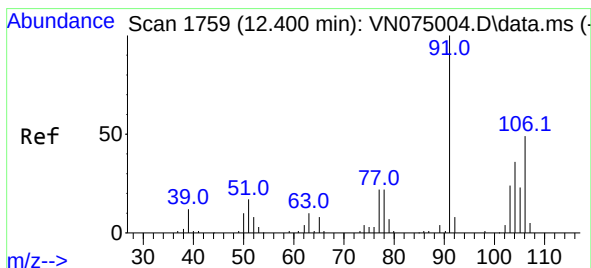
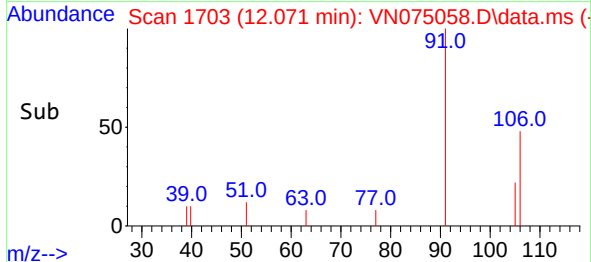
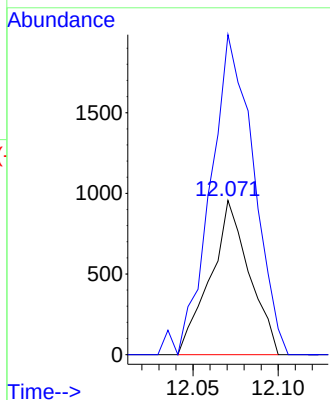
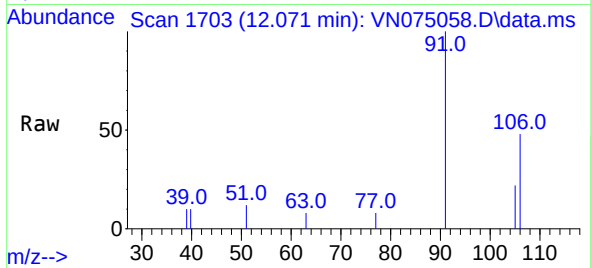




#67
m/p-Xylenes
Concen: 0.799 ug/l
RT: 12.071 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

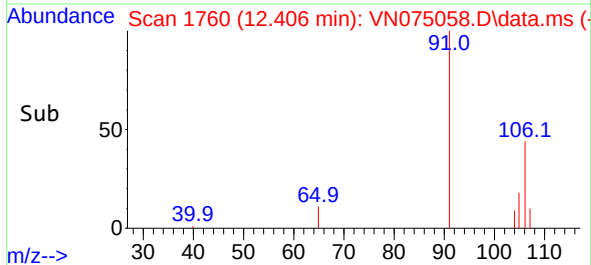
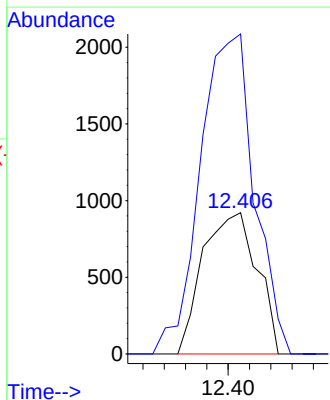
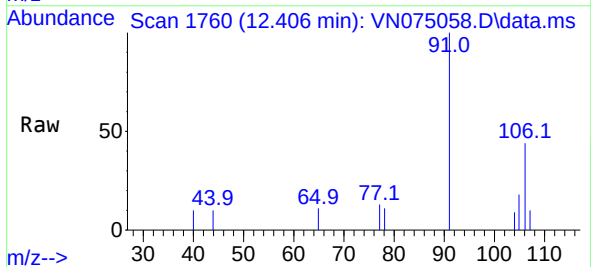
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

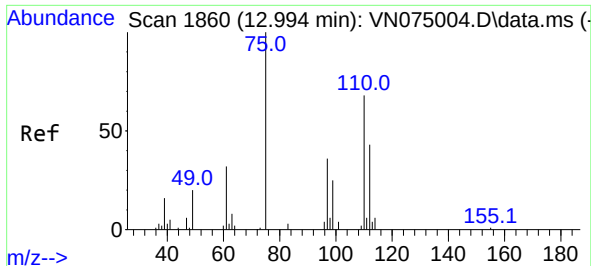
Tgt Ion:106 Resp: 1517
Ion Ratio Lower Upper
106 100
91 228.1 162.9 244.3



#68
o-Xylene
Concen: 0.853 ug/l
RT: 12.406 min Scan# 1760
Delta R.T. 0.006 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion:106 Resp: 1628
Ion Ratio Lower Upper
106 100
91 226.1 107.7 323.1

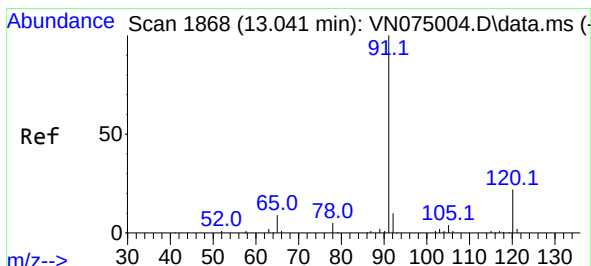
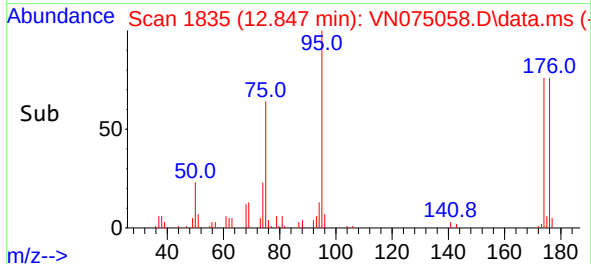
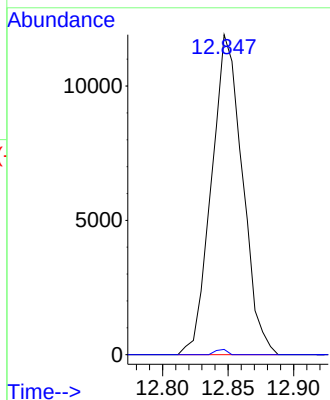
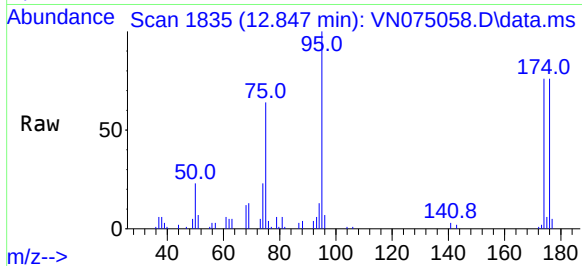




#72
1,2,3-Trichloropropane
Concen: 13.316 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

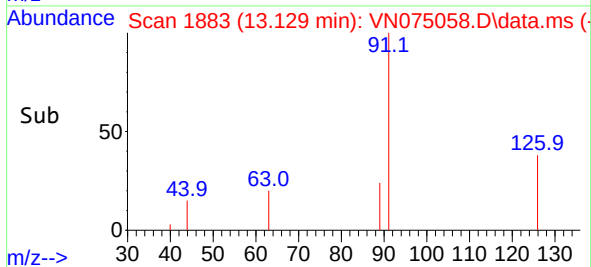
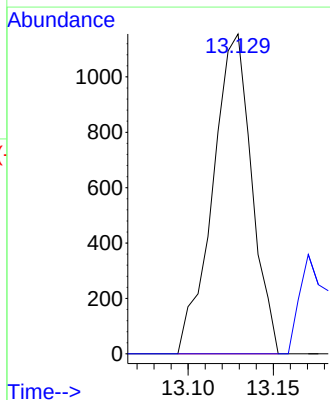
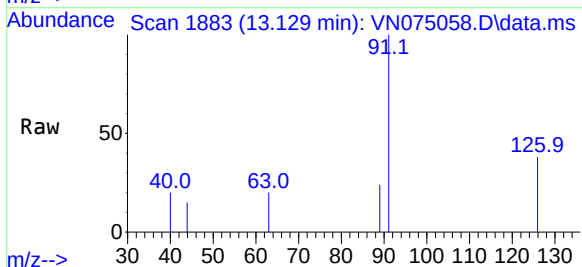
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

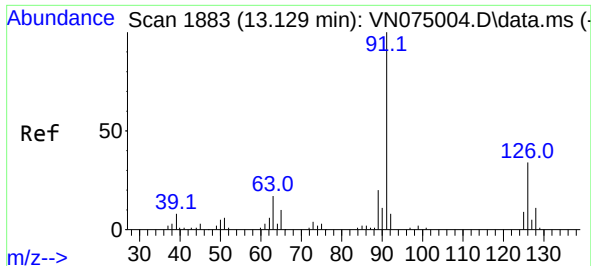
Tgt Ion: 75 Resp: 19581
Ion Ratio Lower Upper
75 100
77 0.6 0.0 378.0



#74
n-propylbenzene
Concen: 0.331 ug/l
RT: 13.129 min Scan# 1883
Delta R.T. 0.088 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion: 91 Resp: 1840
Ion Ratio Lower Upper
91 100
120 19.8 0.0 45.0

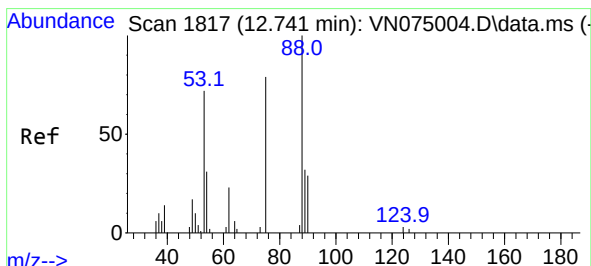
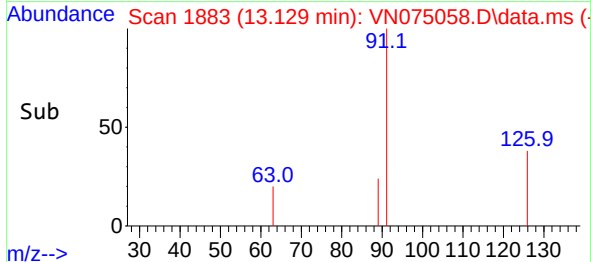
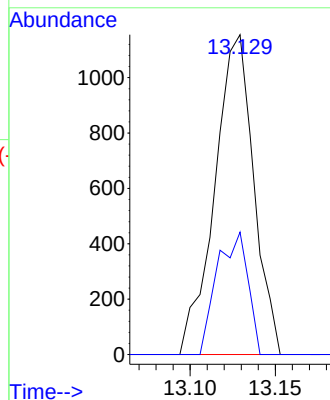
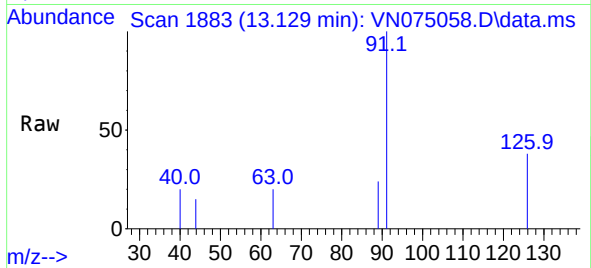




#75
2-Chlorotoluene
Concen: 0.543 ug/l
RT: 13.129 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

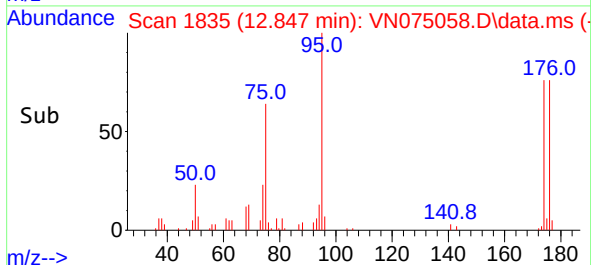
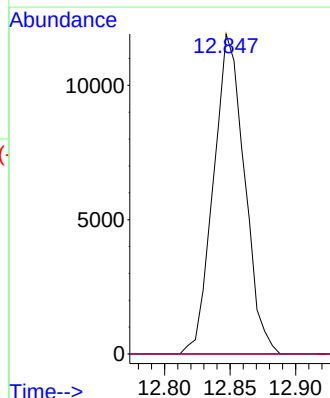
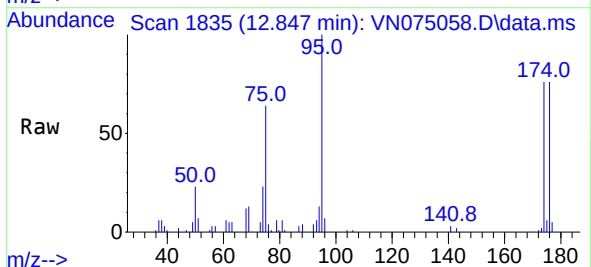
Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

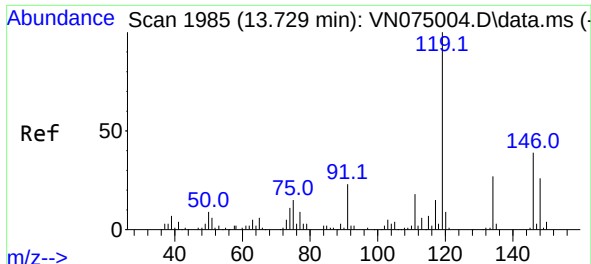
Tgt Ion: 91 Resp: 1840
Ion Ratio Lower Upper
91 100
126 30.2 0.0 69.8



#77
t-1,4-Dichloro-2-butene
Concen: 38.122 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.106 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

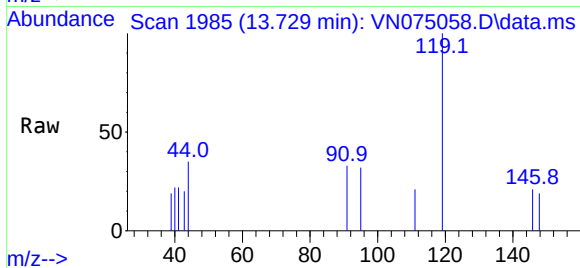
Tgt Ion: 75 Resp: 19581
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



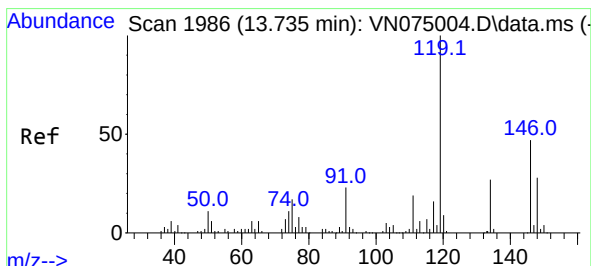
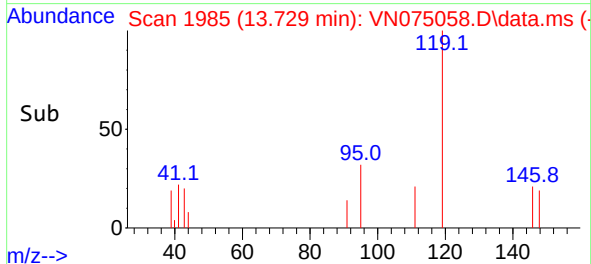
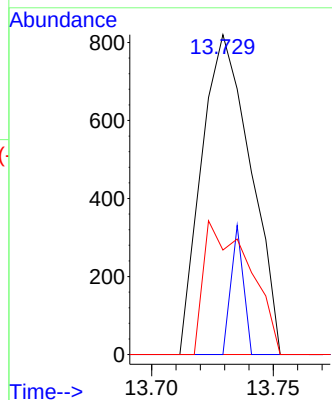


#82
p-Isopropyltoluene
Concen: 0.258 ug/l
RT: 13.729 min Scan# 1985
Delta R.T. -0.000 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

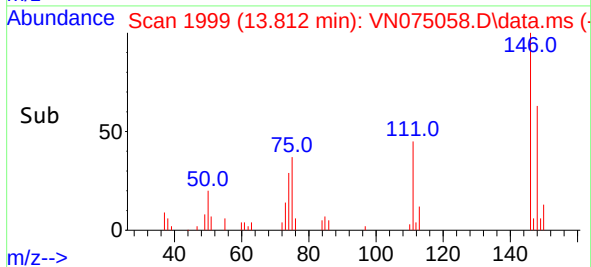
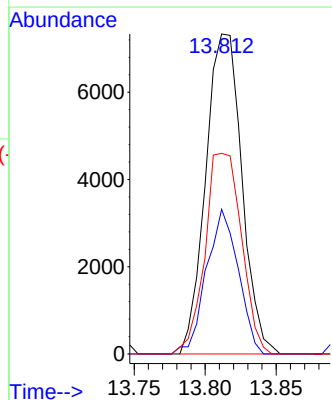
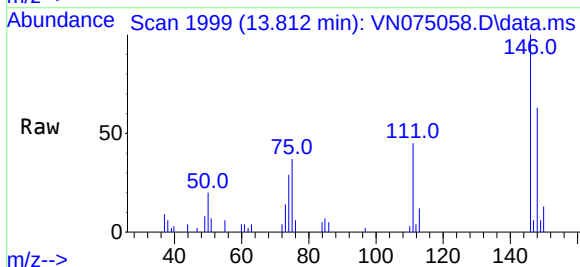


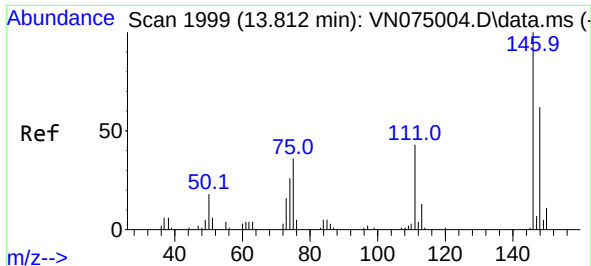
Tgt Ion:	119	Resp:	1149
Ion	Ratio	Lower	Upper
119	100		
134	0.0	0.0	51.8
91	38.9	0.0	50.4



#83
1,3-Dichlorobenzene
Concen: 5.940 ug/l
RT: 13.812 min Scan# 1999
Delta R.T. 0.076 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

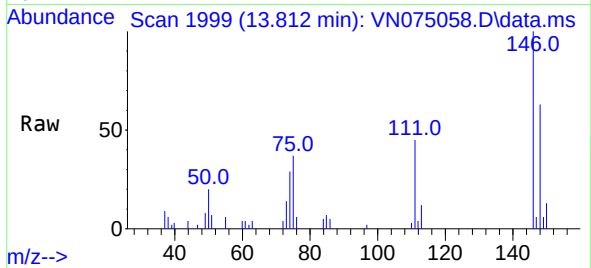
Tgt Ion:	146	Resp:	12999
Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.8	62.2
148	63.3	31.4	94.3



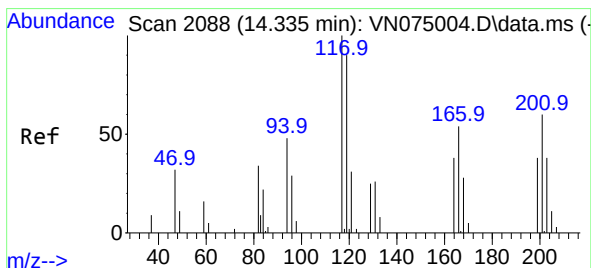
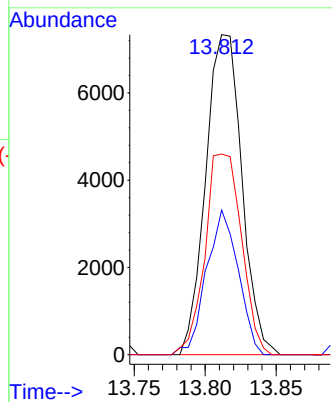
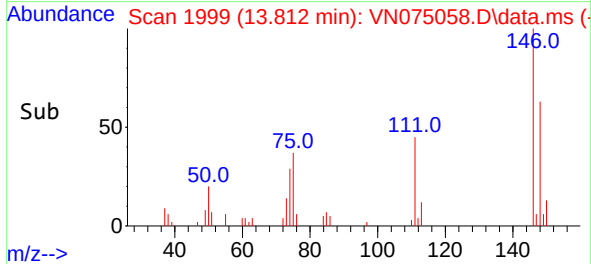


#84
1,4-Dichlorobenzene
Concen: 6.157 ug/l
RT: 13.812 min Scan# 1999
Delta R.T. -0.000 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

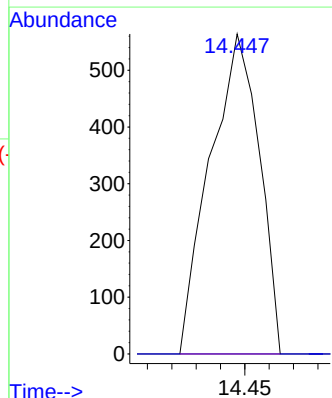
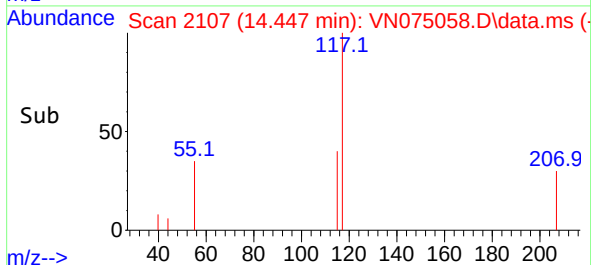
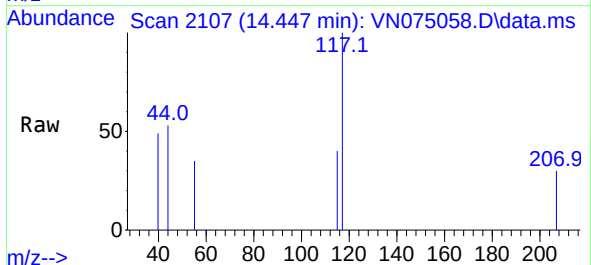


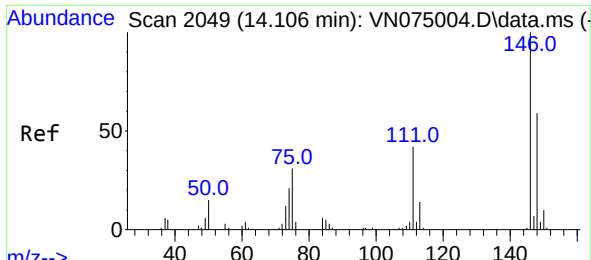
Tgt Ion:146 Resp: 12999
Ion Ratio Lower Upper
146 100
111 39.8 19.5 58.5
148 63.3 31.1 93.5



#86
Hexachloroethane
Concen: 0.957 ug/l
RT: 14.447 min Scan# 2107
Delta R.T. 0.112 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion:117 Resp: 791
Ion Ratio Lower Upper
117 100
201 0.0 33.3 99.8#





#87

1,2-Dichlorobenzene

Concen: 0.443 ug/l

RT: 14.112 min Scan# 2049

Delta R.T. 0.006 min

Lab File: VN075058.D

Acq: 28 Oct 2022 14:12

Instrument :

MSVOA_N

ClientSampleId :

221026039-02-VOA

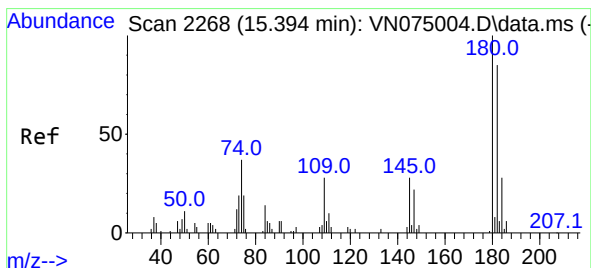
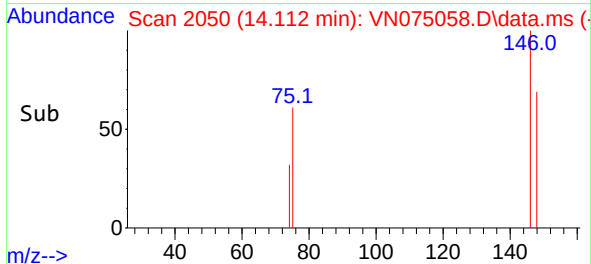
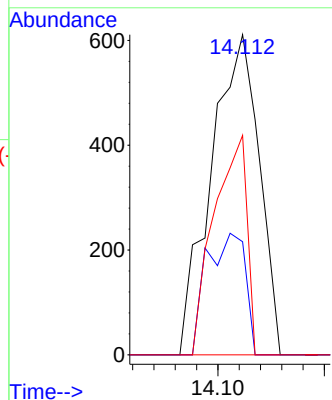
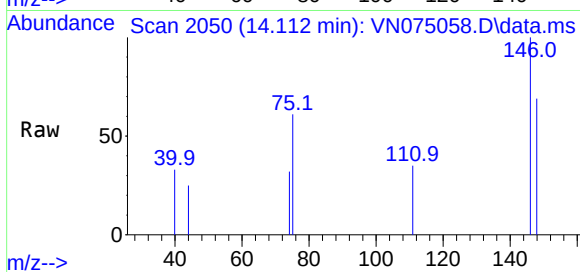
Tgt Ion:146 Resp: 959

Ion Ratio Lower Upper

146 100

111 30.2 21.4 64.2

148 46.9 32.5 97.4



#89

1,2,4-Trichlorobenzene

Concen: 0.300 ug/l

RT: 15.388 min Scan# 2267

Delta R.T. -0.006 min

Lab File: VN075058.D

Acq: 28 Oct 2022 14:12

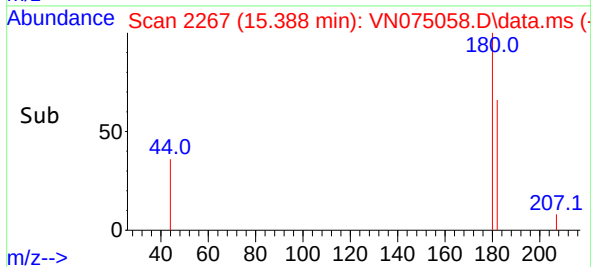
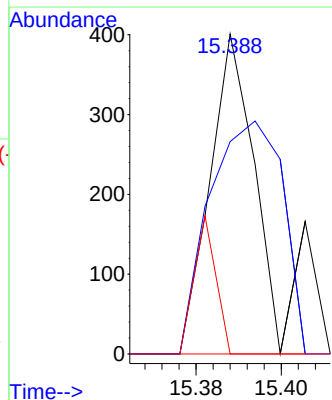
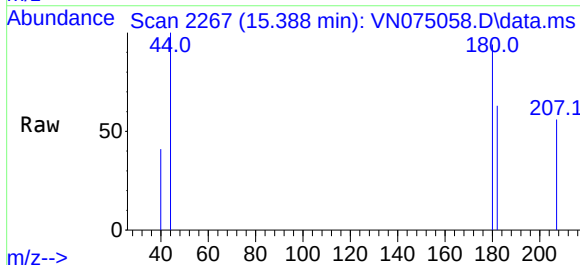
Tgt Ion:180 Resp: 287

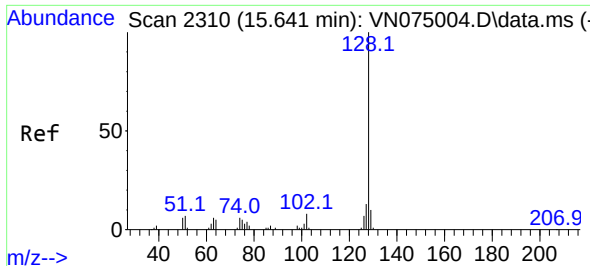
Ion Ratio Lower Upper

180 100

182 121.3 77.7 116.5#

145 0.0 26.6 39.8#

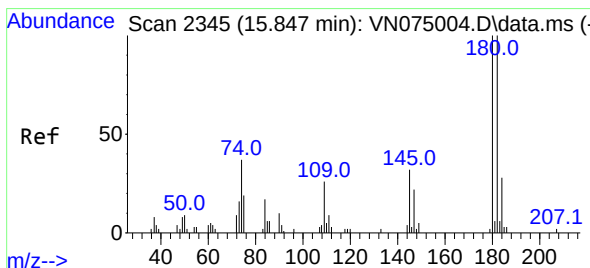
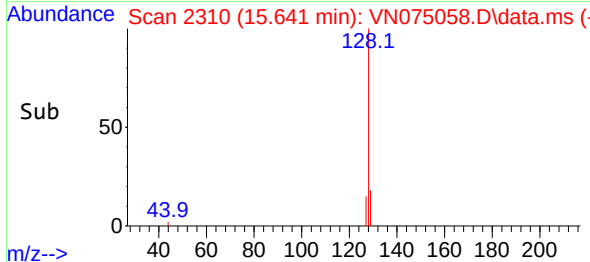
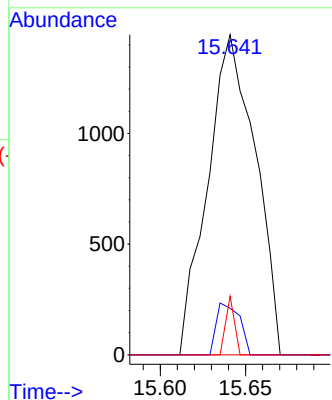
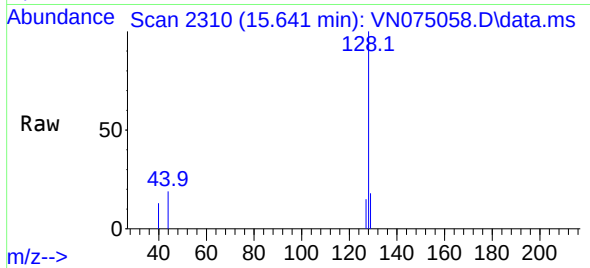




#91
Naphthalene
Concen: 0.743 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Instrument :
MSVOA_N
ClientSampleId :
221026039-02-VOA

Tgt Ion:128 Resp: 2816
Ion Ratio Lower Upper
128 100
127 7.8 10.7 16.1#
129 0.0 9.0 13.6#



#92
1,2,3-Trichlorobenzene
Concen: 0.203 ug/l
RT: 15.847 min Scan# 2345
Delta R.T. -0.000 min
Lab File: VN075058.D
Acq: 28 Oct 2022 14:12

Tgt Ion:180 Resp: 196
Ion Ratio Lower Upper
180 100
182 161.2 0.0 190.0
145 0.0 0.0 67.8

