

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN033122\
 Data File : VN071705.D
 Acq On : 31 Mar 2022 15:37
 Operator : JC\MD
 Sample : N2177-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-039-IDWGW-20220329

Quant Time: Mar 31 18:45:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

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

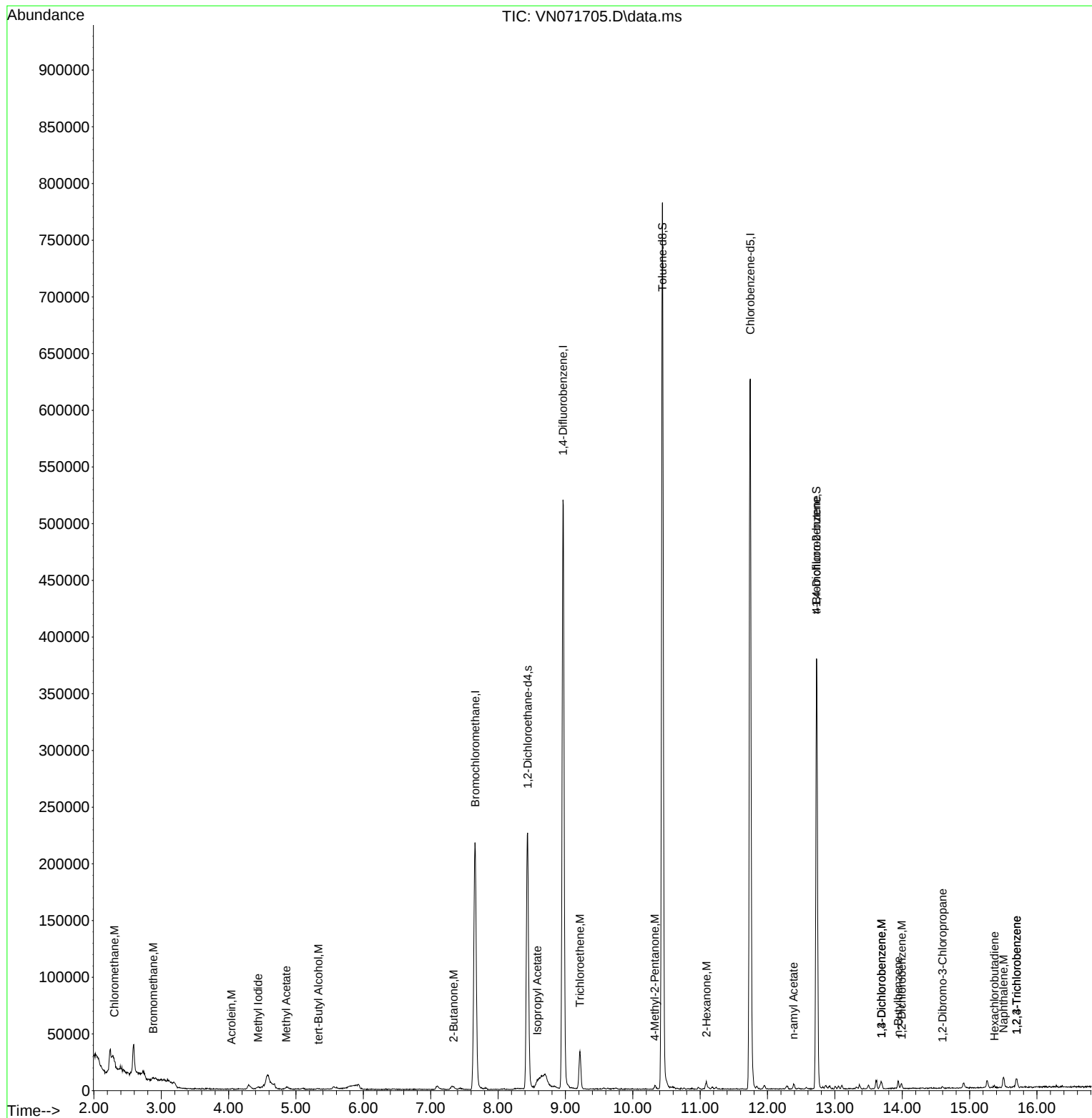
Internal Standards						
1) Bromochloromethane	7.663	128	88231	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	485305	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.745	117	402888	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.439	65	191753	30.847	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.833%
60) 4-Bromofluorobenzene	12.727	95	137862	23.078	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	76.933%
63) Toluene-d8	10.439	98	567324	31.020	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.400%
Target Compounds						
					Qvalue	
3) Chloromethane	2.304	50	2245	0.347	ug/l	94
5) Bromomethane	2.881	94	2088	0.477	ug/l #	37
11) Methyl Iodide	4.440	142	1921	0.256	ug/l #	87
12) Methyl Acetate	4.857	43	4022	0.558	ug/l	98
13) Acrolein	4.040	56	228	0.297	ug/l #	1
23) tert-Butyl Alcohol	5.334	59	399	0.343	ug/l #	100
30) 2-Butanone	7.339	43	2631	0.602	ug/l #	73
37) Trichloroethene	9.216	130	12650	2.009	ug/l	87
44) Isopropyl Acetate	8.581	43	4812	0.354	ug/l #	1
47) n-amyl Acetate	12.386	43	3021	0.333	ug/l	98
58) 4-Methyl-2-Pentanone	10.327	43	2723	0.356	ug/l #	95
59) 2-Hexanone	11.092	43	4961	0.888	ug/l	96
77) t-1,4-Dichloro-2-butene	12.727	75	68286	26.996	ug/l #	8
83) 1,3-Dichlorobenzene	13.692	146	2861	0.278	ug/l	95
84) 1,4-Dichlorobenzene	13.692	146	2861	0.291	ug/l	97
85) n-Butylbenzene	13.939	91	4382	0.290	ug/l	97
87) 1,2-Dichlorobenzene	13.992	146	2561	0.258	ug/l	79
88) 1,2-Dibromo-3-Chloropr...	14.598	75	372	0.249	ug/l #	72
89) 1,2,4-Trichlorobenzene	15.698	180	4003	0.871	ug/l	92
90) Hexachlorobutadiene	15.368	225	649	0.238	ug/l	68
91) Naphthalene	15.504	128	10039	7.444	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.698	180	4003	0.888	ug/l	93

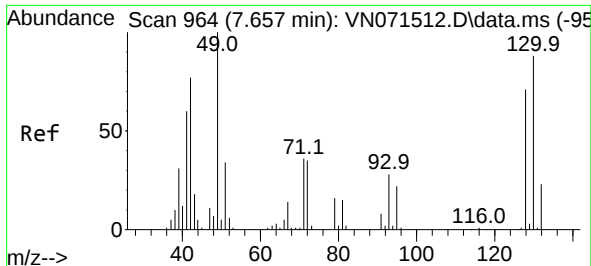
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN071705.D
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TT-039-IDWGW-20220329

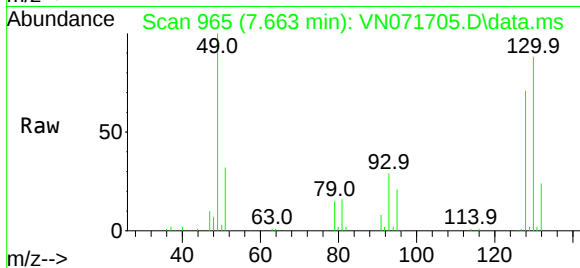
Quant Time: Mar 31 18:45:18 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 24 12:03:44 2022
Response via : Initial Calibration



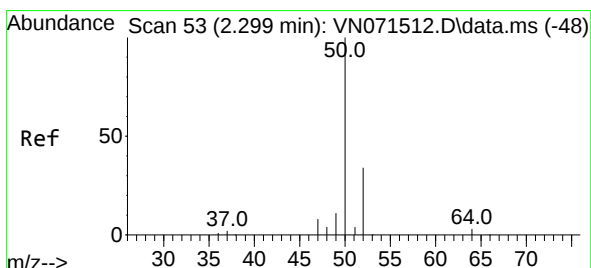
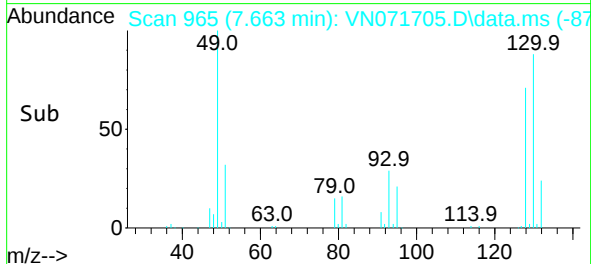
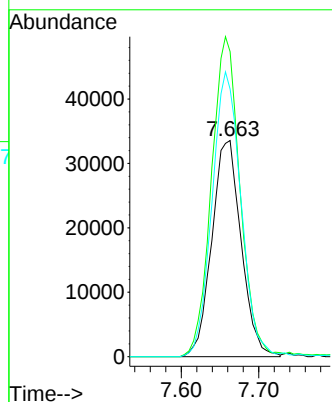


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.663 min Scan# 90
Delta R.T. 0.006 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

Instrument :
MSVOA_N
ClientSampleId :
TT-039-IDWGW-20220329

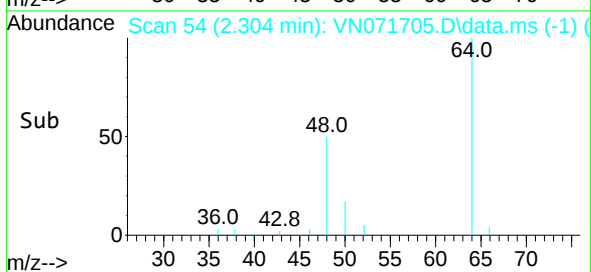
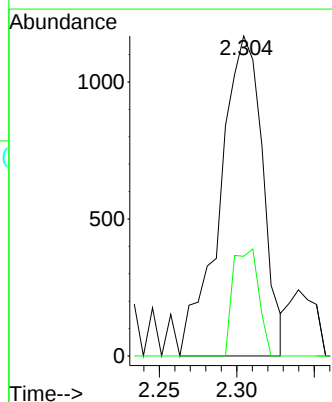
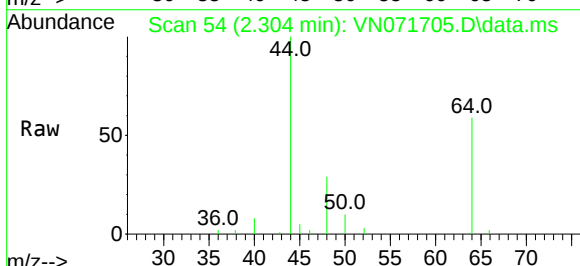


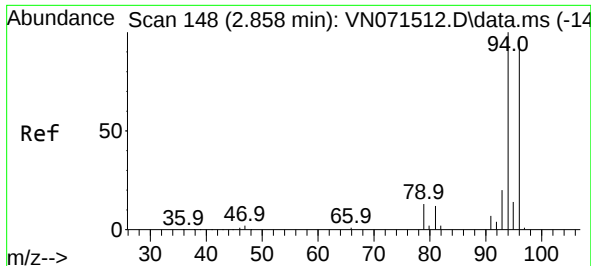
Tgt Ion:128 Resp: 88231
Ion Ratio Lower Upper
128 100
49 143.5 0.0 392.3
130 129.6 0.0 320.2



#3
Chloromethane
Concen: 0.347 ug/l
RT: 2.304 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

Tgt Ion: 50 Resp: 2245
Ion Ratio Lower Upper
50 100
52 31.2 27.8 41.6

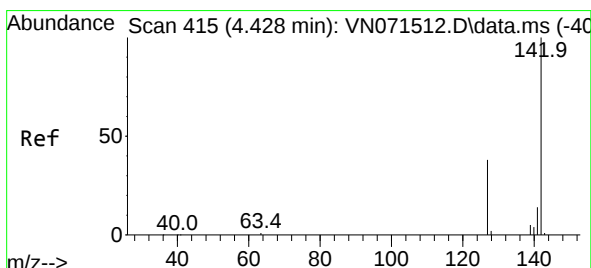
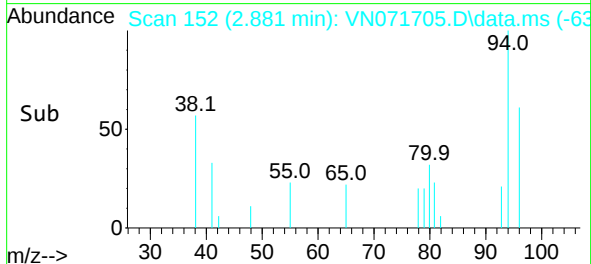
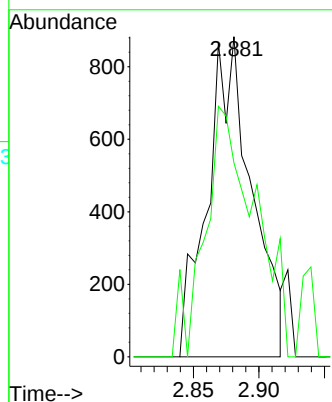
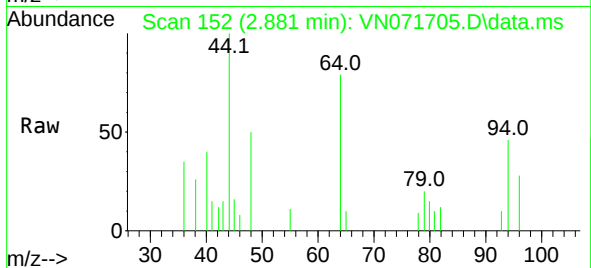




#5
Bromomethane
Concen: 0.477 ug/l
RT: 2.881 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

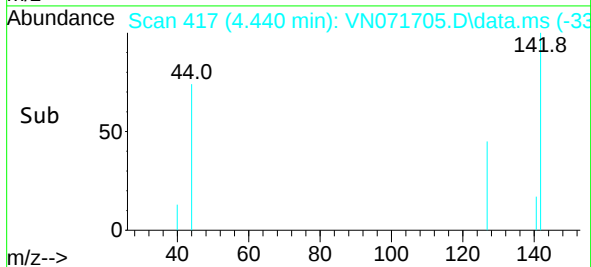
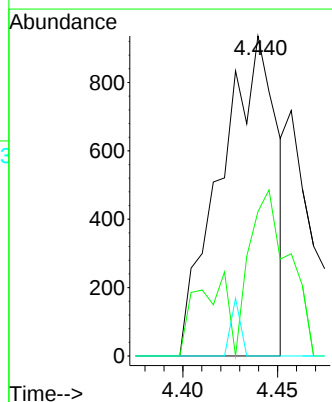
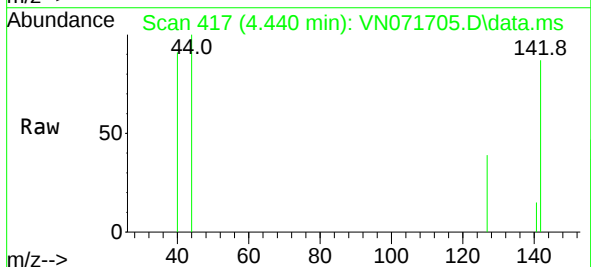
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ClientSampleId :
TT-039-IDWGW-20220329

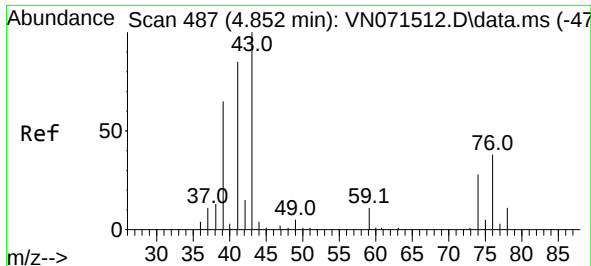
Tgt Ion: 94 Resp: 2088
Ion Ratio Lower Upper
94 100
96 33.3 75.2 112.8#



#11
Methyl Iodide
Concen: 0.256 ug/l
RT: 4.440 min Scan# 417
Delta R.T. 0.012 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

Tgt Ion: 142 Resp: 1921
Ion Ratio Lower Upper
142 100
127 45.4 24.0 72.0
141 0.0 8.4 25.2#

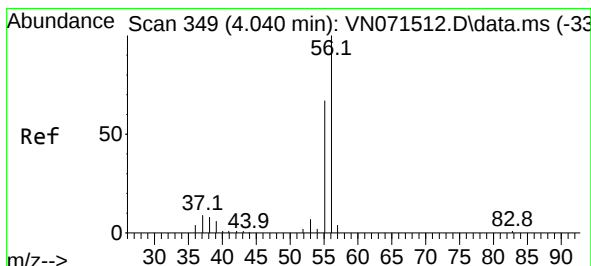
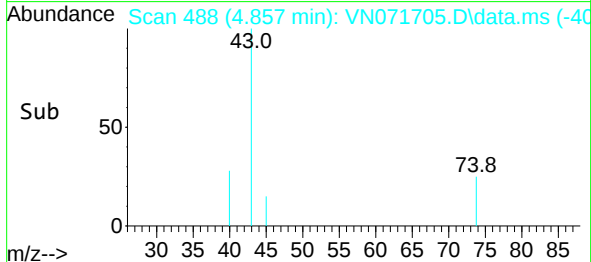
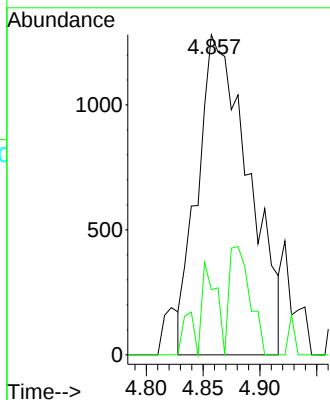
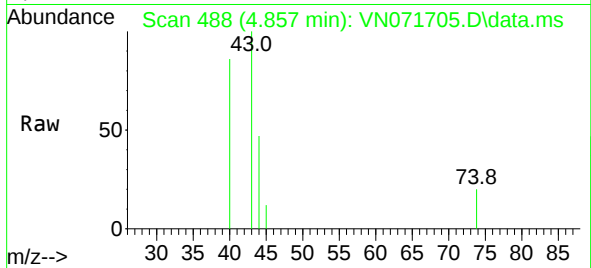




#12
Methyl Acetate
Concen: 0.558 ug/l
RT: 4.857 min Scan# 488
Delta R.T. 0.006 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

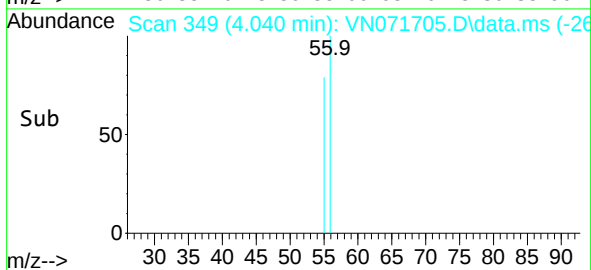
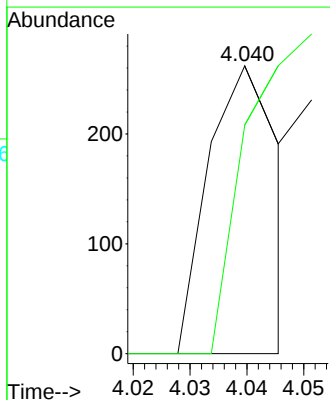
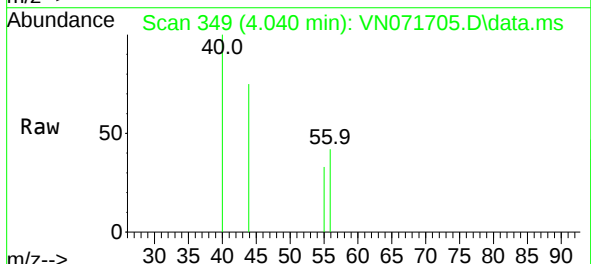
Instrument :
MSVOA_N
ClientSampleId :
TT-039-IDWGW-20220329

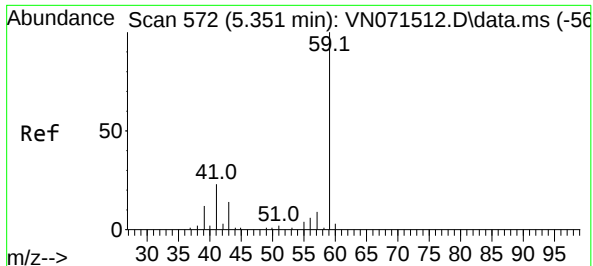
Tgt Ion: 43 Resp: 4022
Ion Ratio Lower Upper
43 100
74 25.2 20.8 31.2



#13
Acrolein
Concen: 0.297 ug/l
RT: 4.040 min Scan# 349
Delta R.T. -0.000 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

Tgt Ion: 56 Resp: 228
Ion Ratio Lower Upper
56 100
55 161.4 57.6 86.4#

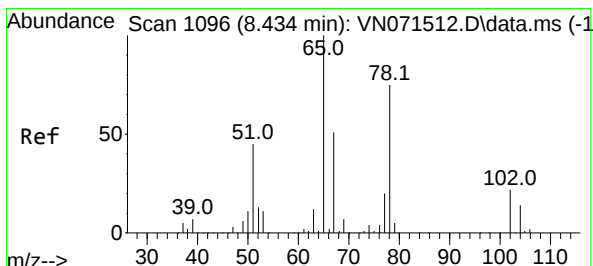
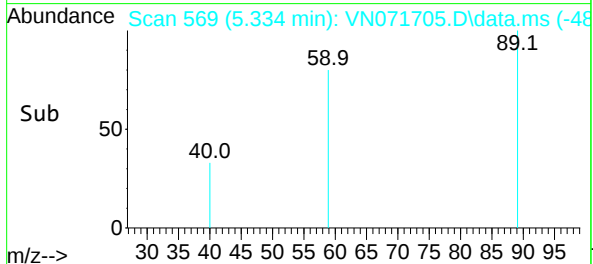
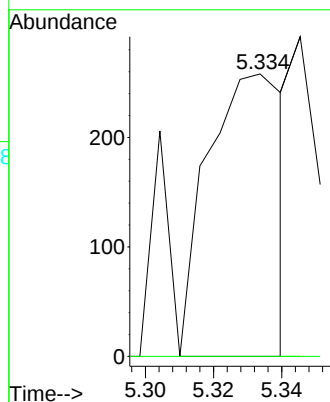
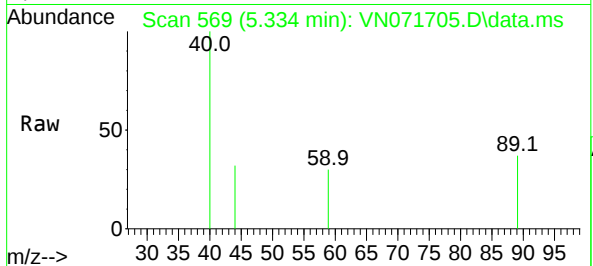




#23
tert-Butyl Alcohol
Concen: 0.343 ug/l
RT: 5.334 min Scan# 51
Delta R.T. -0.018 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

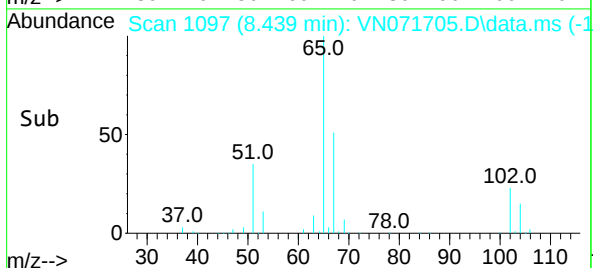
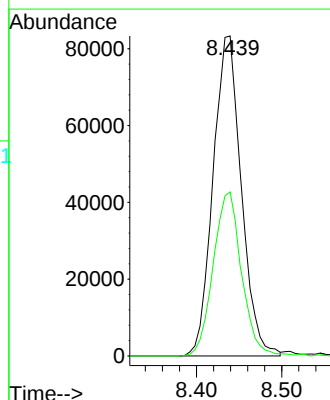
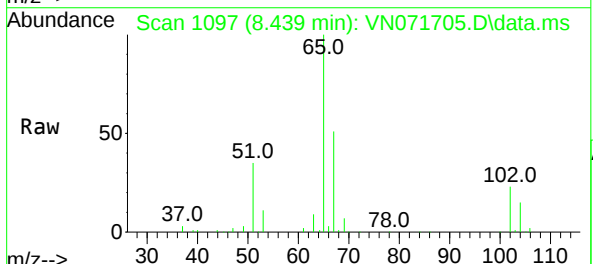
Instrument :
MSVOA_N
ClientSampleId :
TT-039-IDWGW-20220329

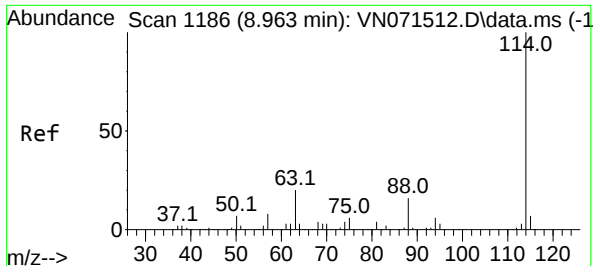
Tgt Ion: 59 Resp: 399
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 30.847 ug/l
RT: 8.439 min Scan# 1097
Delta R.T. 0.006 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

Tgt Ion: 65 Resp: 191753
Ion Ratio Lower Upper
65 100
67 51.1 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071705.D

Acq: 31 Mar 2022 15:37

Instrument :

MSVOA_N

ClientSampleId :

TT-039-IDWGW-20220329

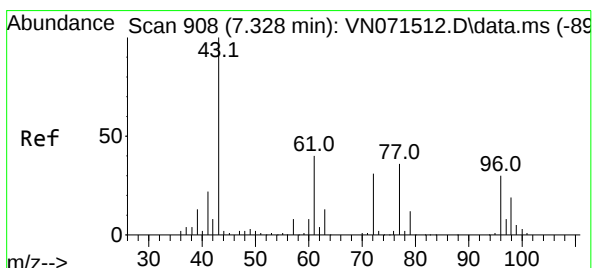
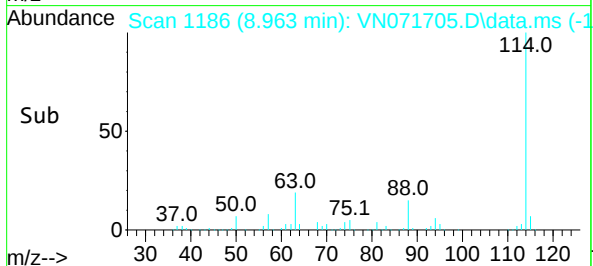
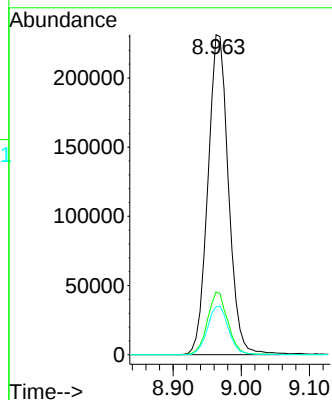
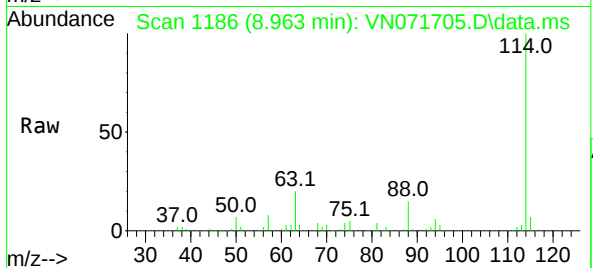
Tgt Ion:114 Resp: 485305

Ion Ratio Lower Upper

114 100

63 19.2 15.8 23.6

88 15.5 11.6 17.4



#30

2-Butanone

Concen: 0.602 ug/l

RT: 7.339 min Scan# 910

Delta R.T. 0.012 min

Lab File: VN071705.D

Acq: 31 Mar 2022 15:37

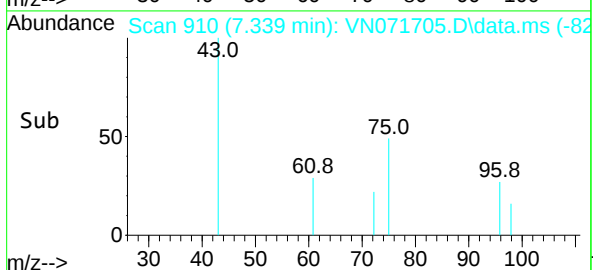
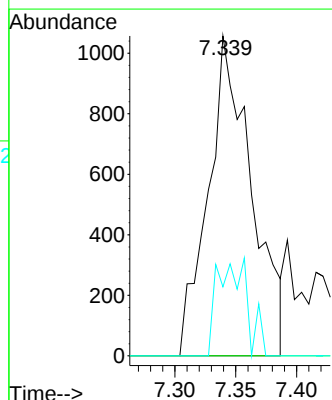
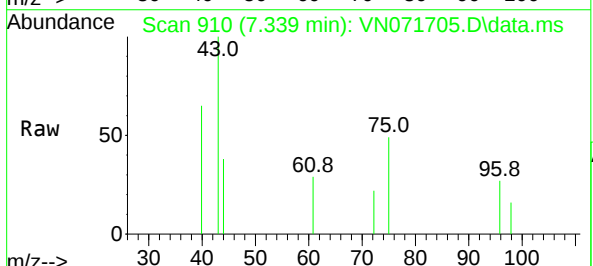
Tgt Ion: 43 Resp: 2631

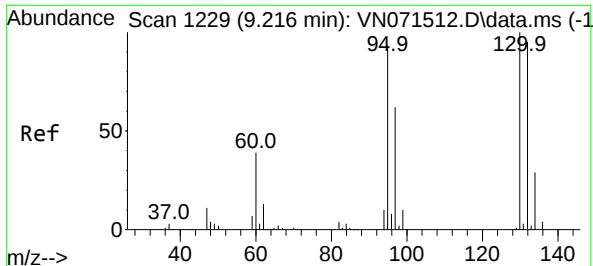
Ion Ratio Lower Upper

43 100

57 0.0 6.7 10.1#

72 14.1 23.2 34.8#

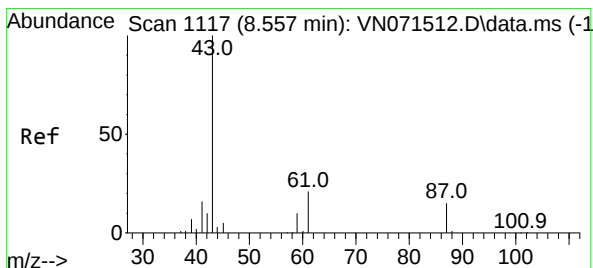
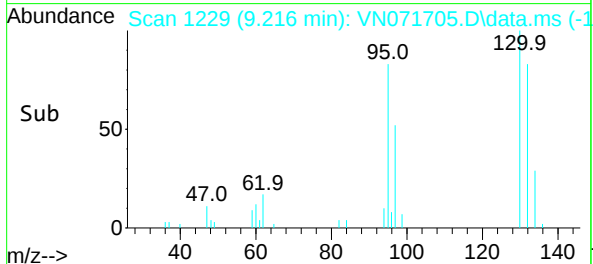
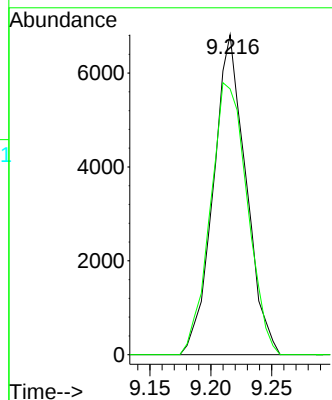
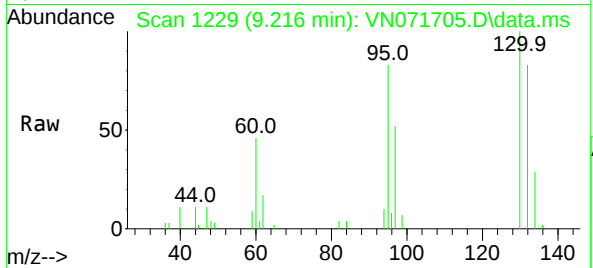




#37
Trichloroethene
Concen: 2.009 ug/l
RT: 9.216 min Scan# 1121
Delta R.T. -0.000 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

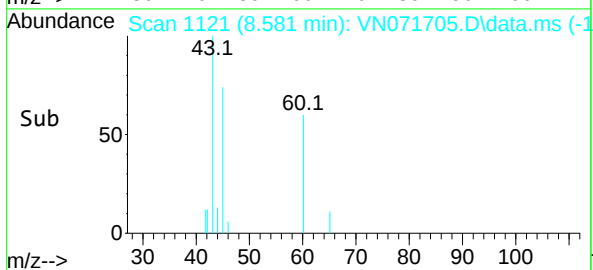
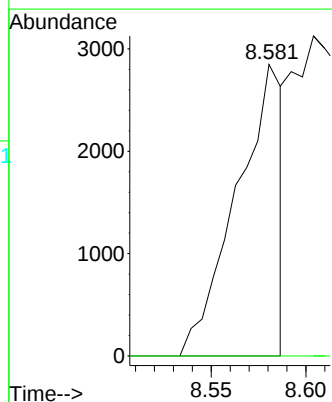
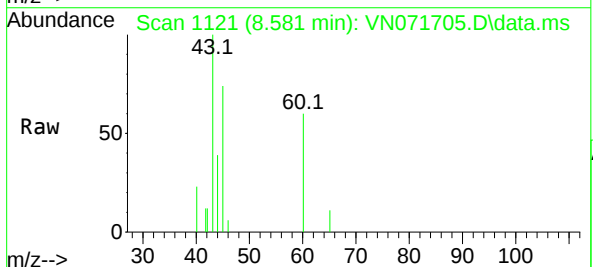
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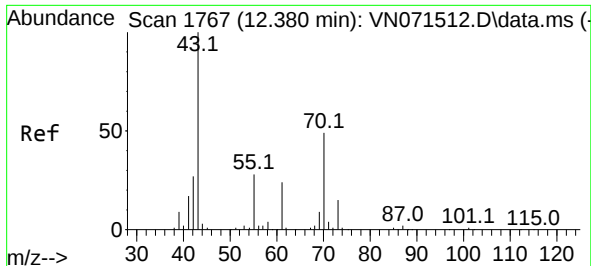
Tgt Ion:130 Resp: 12650
Ion Ratio Lower Upper
130 100
95 83.0 76.6 115.0



#44
Isopropyl Acetate
Concen: 0.354 ug/l
RT: 8.581 min Scan# 1121
Delta R.T. 0.023 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

Tgt Ion: 43 Resp: 4812
Ion Ratio Lower Upper
43 100
61 75.1 20.1 30.1#

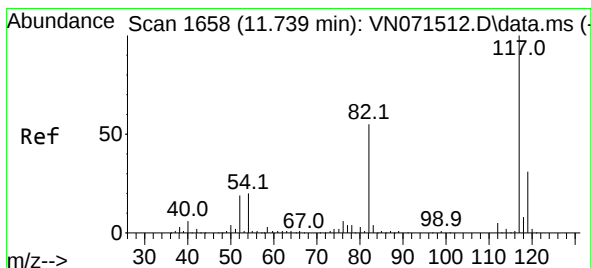
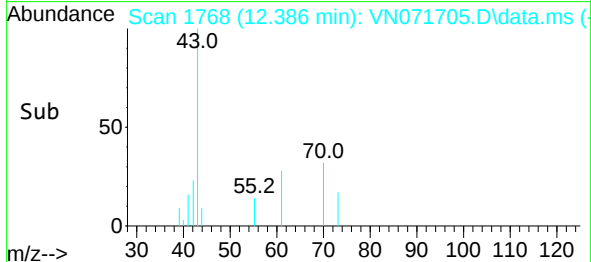
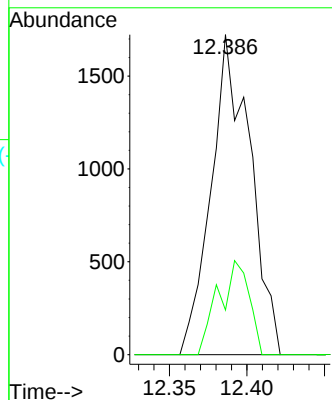
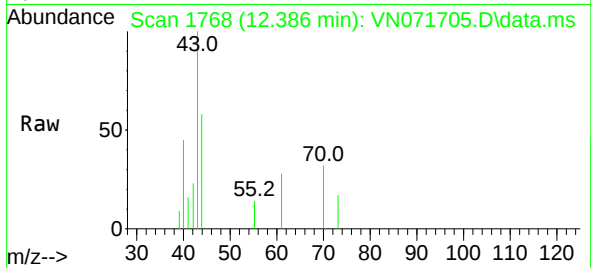




#47
n-amyl acetate
Concen: 0.333 ug/l
RT: 12.386 min Scan# 1767
Delta R.T. 0.006 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

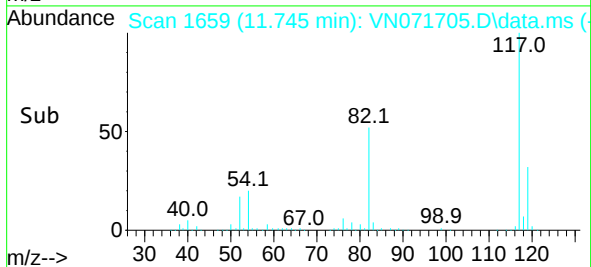
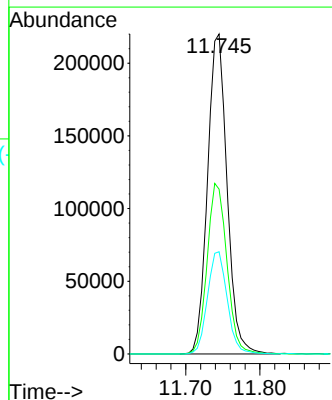
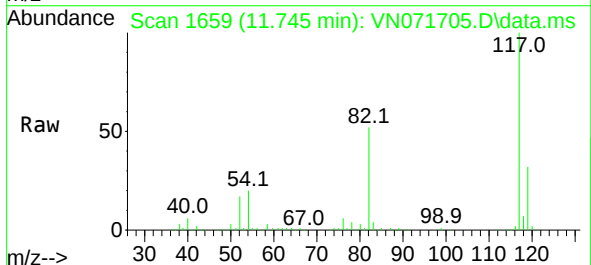
Instrument :
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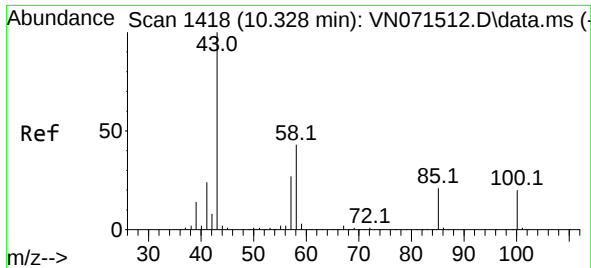
Tgt Ion: 43 Resp: 3021
Ion Ratio Lower Upper
43 100
55 23.0 19.0 28.6



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.745 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

Tgt Ion: 117 Resp: 402888
Ion Ratio Lower Upper
117 100
82 54.1 43.6 65.4
119 32.3 25.8 38.6

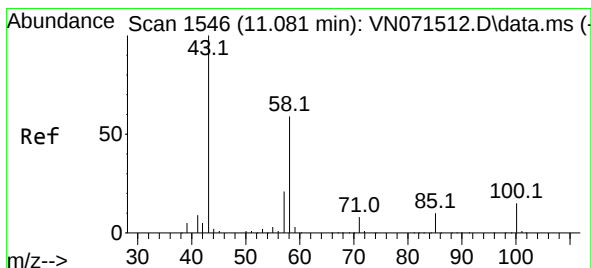
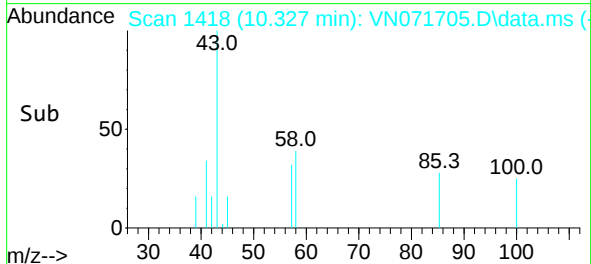
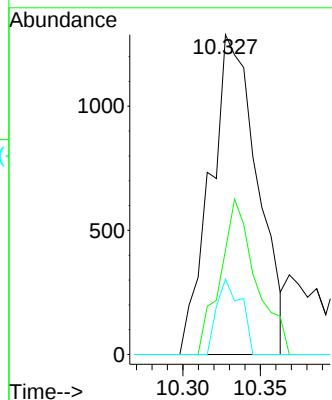
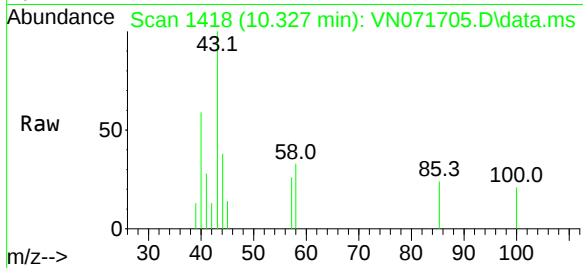




#58
4-Methyl-2-Pentanone
Concen: 0.356 ug/l
RT: 10.327 min Scan# 1418
Delta R.T. -0.000 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

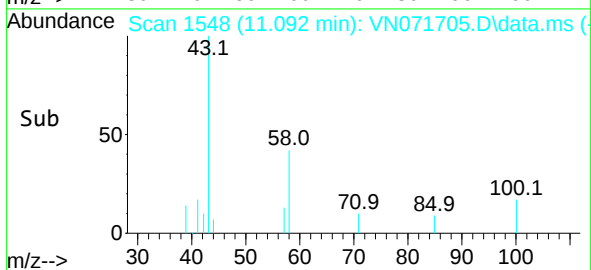
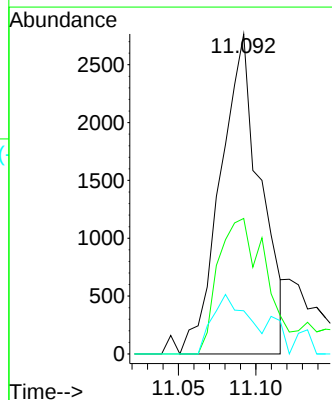
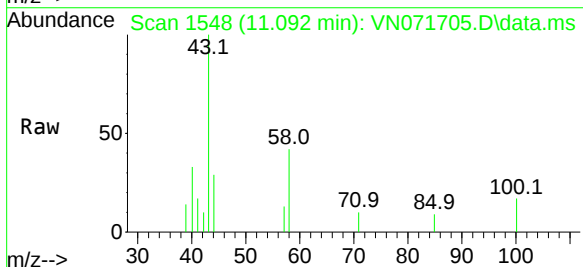
Instrument :
MSVOA_N
ClientSampleId :
TT-039-IDWGW-20220329

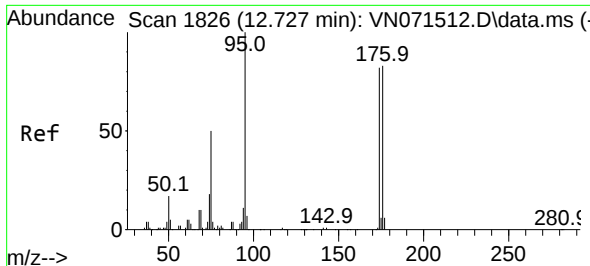
Tgt Ion: 43 Resp: 2723
Ion Ratio Lower Upper
43 100
58 37.0 30.0 45.0
85 12.2 15.0 22.6#



#59
2-Hexanone
Concen: 0.888 ug/l
RT: 11.092 min Scan# 1548
Delta R.T. 0.012 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

Tgt Ion: 43 Resp: 4961
Ion Ratio Lower Upper
43 100
58 50.1 42.2 63.2
57 16.6 15.0 22.4

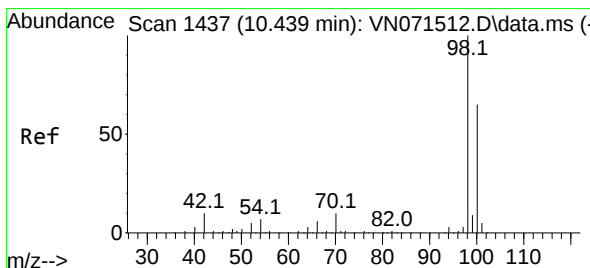
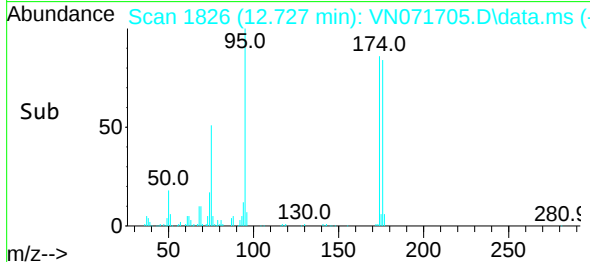
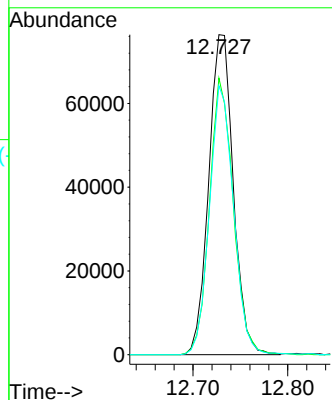
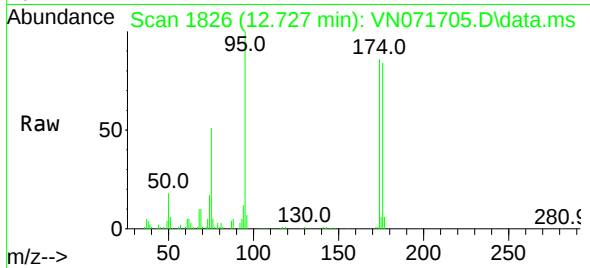




#60
4-Bromofluorobenzene
Concen: 23.078 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

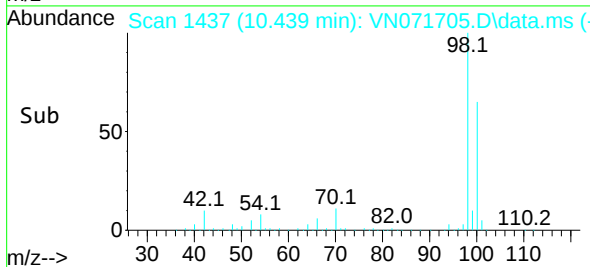
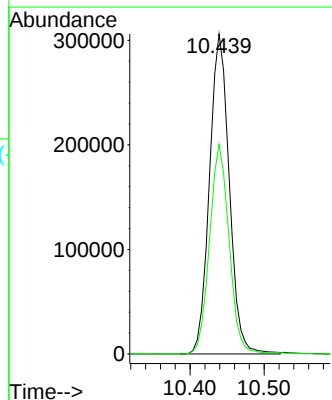
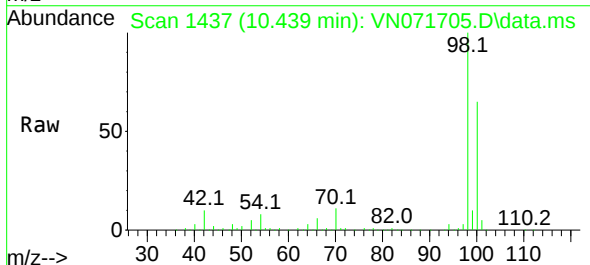
Instrument :
MSVOA_N
ClientSampleId :
TT-039-IDWGW-20220329

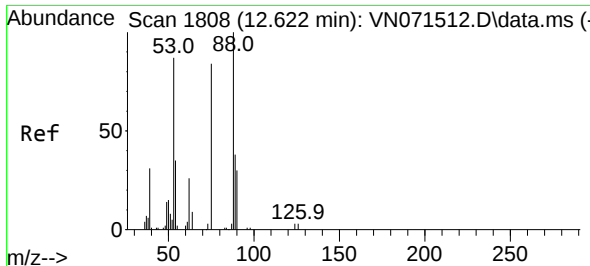
Tgt Ion: 95 Resp: 137862
Ion Ratio Lower Upper
95 100
174 83.6 62.9 94.3
176 82.4 61.0 91.4



#63
Toluene-d8
Concen: 31.020 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

Tgt Ion: 98 Resp: 567324
Ion Ratio Lower Upper
98 100
100 64.3 50.6 76.0

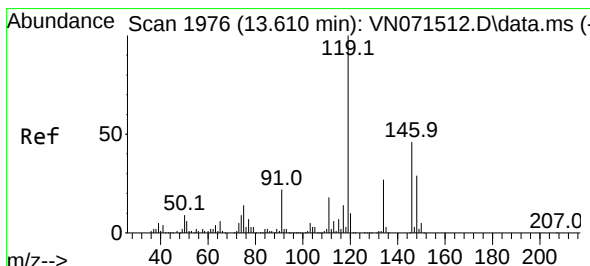
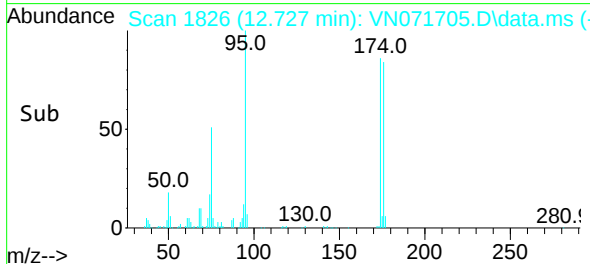
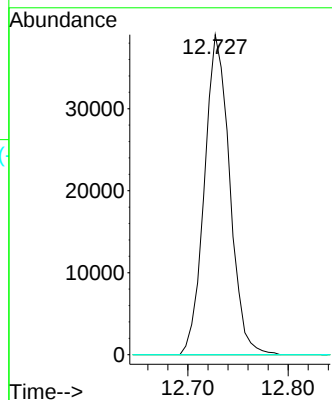
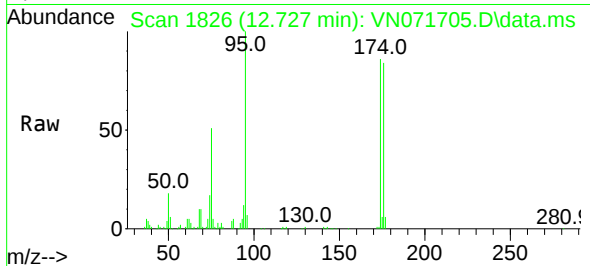




#77
t-1,4-Dichloro-2-butene
Concen: 26.996 ug/l
RT: 12.727 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

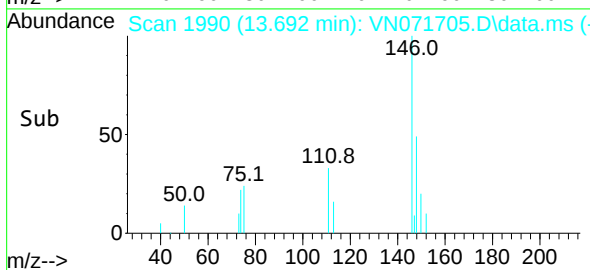
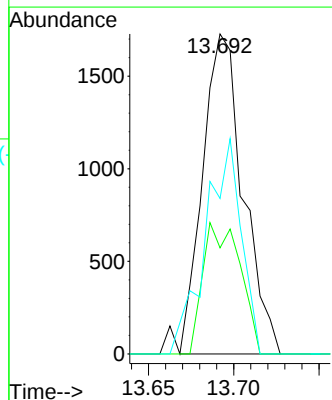
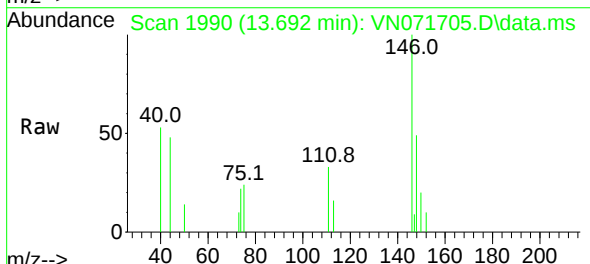
Instrument :
MSVOA_N
ClientSampleId :
TT-039-IDWGW-20220329

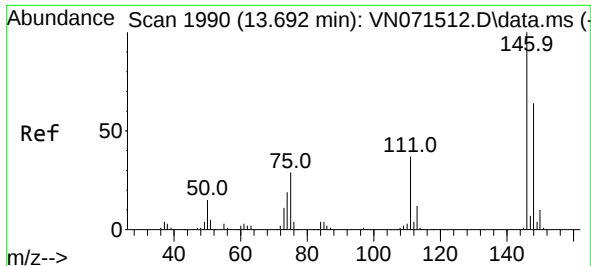
Tgt Ion: 75 Resp: 68286
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



#83
1,3-Dichlorobenzene
Concen: 0.278 ug/l
RT: 13.692 min Scan# 1990
Delta R.T. 0.082 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

Tgt Ion:146 Resp: 2861
Ion Ratio Lower Upper
146 100
111 37.5 20.8 62.2
148 59.1 31.4 94.3

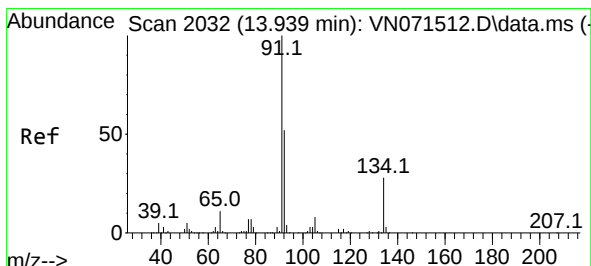
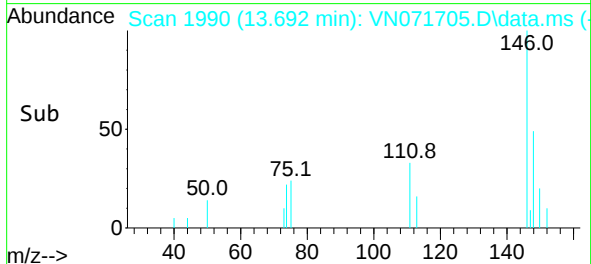
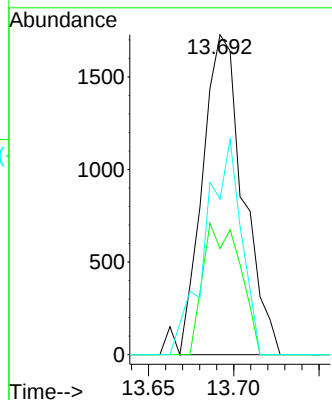
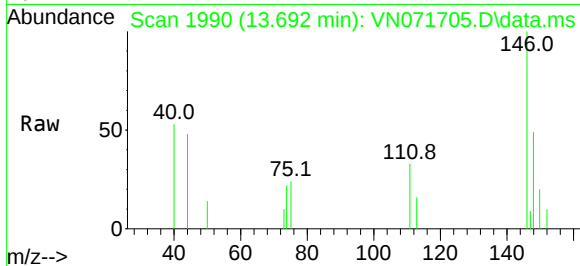




#84
1,4-Dichlorobenzene
Concen: 0.291 ug/l
RT: 13.692 min Scan# 1990
Delta R.T. -0.000 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

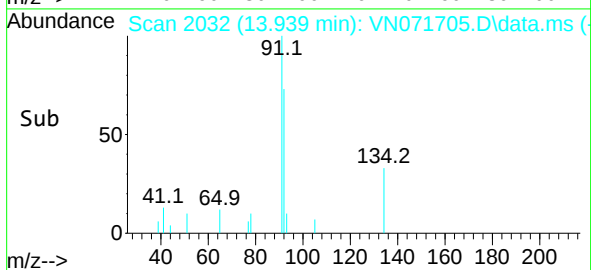
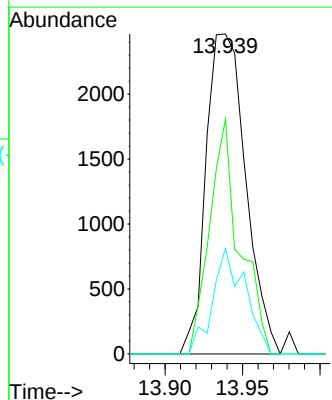
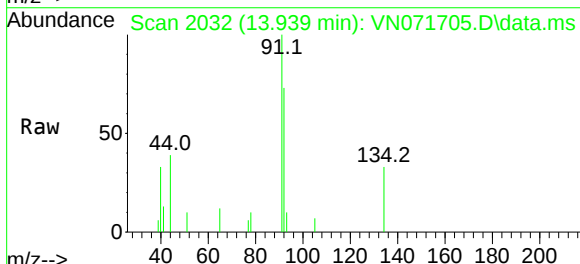
Instrument :
MSVOA_N
ClientSampleId :
TT-039-IDWGW-20220329

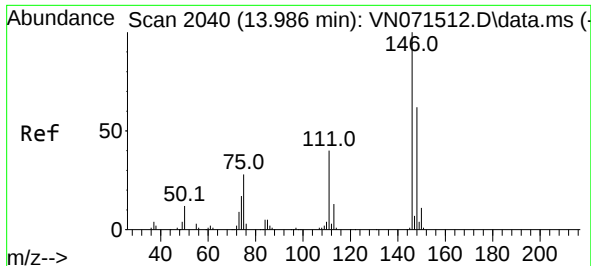
Tgt Ion:	146	Resp:	2861
Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.5	58.5
148	59.1	31.1	93.5



#85
n-Butylbenzene
Concen: 0.290 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VN071705.D
Acq: 31 Mar 2022 15:37

Tgt Ion:	91	Resp:	4382
Ion	Ratio	Lower	Upper
91	100		
92	48.1	0.0	100.6
134	27.0	0.0	50.2





#87

1,2-Dichlorobenzene

Concen: 0.258 ug/l

RT: 13.992 min Scan# 2041

Delta R.T. 0.006 min

Lab File: VN071705.D

Acq: 31 Mar 2022 15:37

Instrument :

MSVOA_N

ClientSampleId :

TT-039-IDWGW-20220329

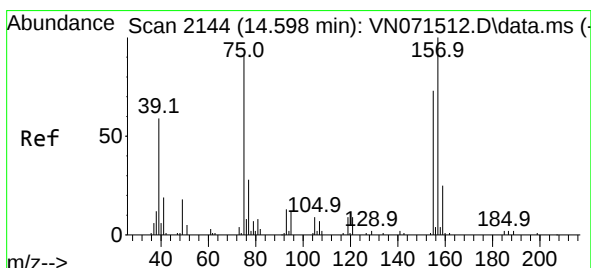
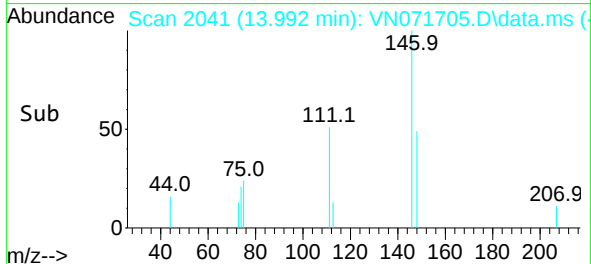
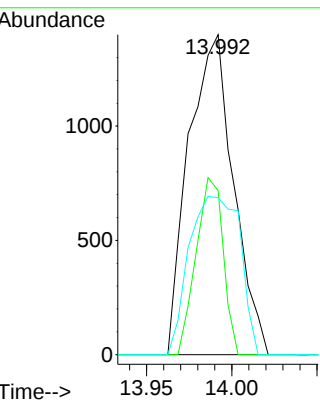
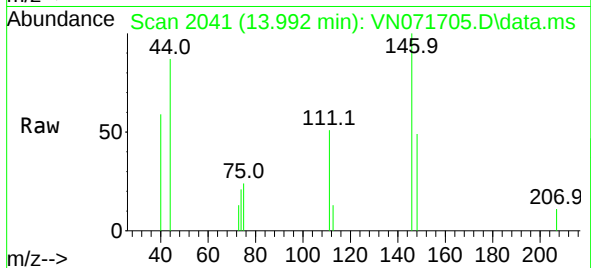
Tgt Ion:146 Resp: 2561

Ion Ratio Lower Upper

146 100

111 33.4 21.4 64.2

148 44.6 32.5 97.4



#88

1,2-Dibromo-3-Chloropropane

Concen: 0.249 ug/l

RT: 14.598 min Scan# 2144

Delta R.T. -0.000 min

Lab File: VN071705.D

Acq: 31 Mar 2022 15:37

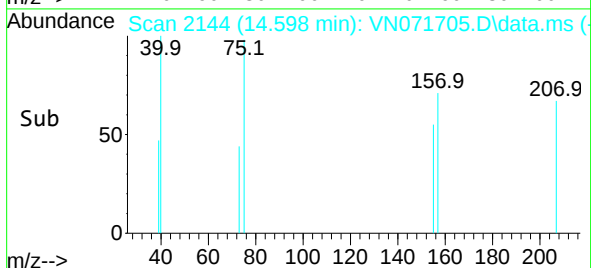
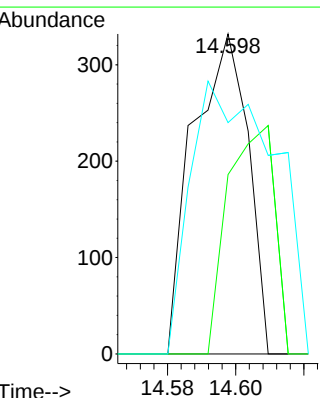
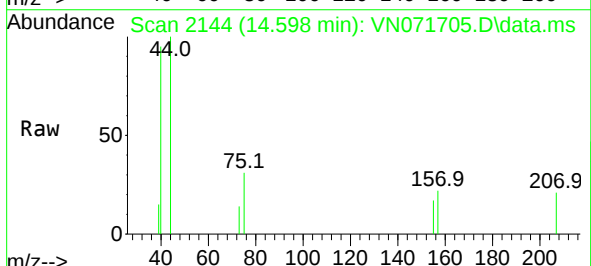
Tgt Ion: 75 Resp: 372

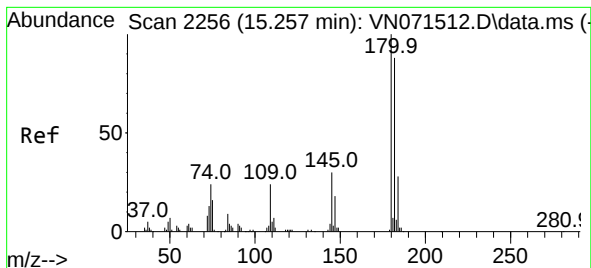
Ion Ratio Lower Upper

75 100

155 60.8 63.8 95.8#

157 130.1 77.9 116.9#





#89

1,2,4-Trichlorobenzene

Concen: 0.871 ug/l

RT: 15.698 min Scan# 21

Delta R.T. 0.441 min

Lab File: VN071705.D

Acq: 31 Mar 2022 15:37

Instrument :

MSVOA_N

ClientSampleId :

TT-039-IDWGW-20220329

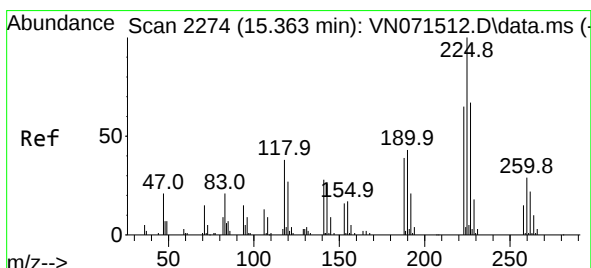
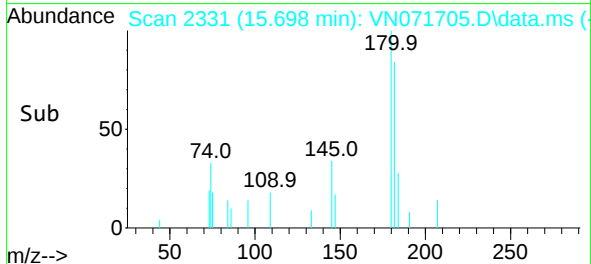
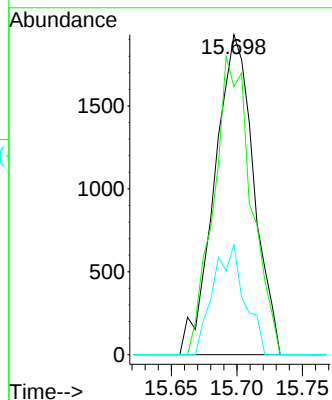
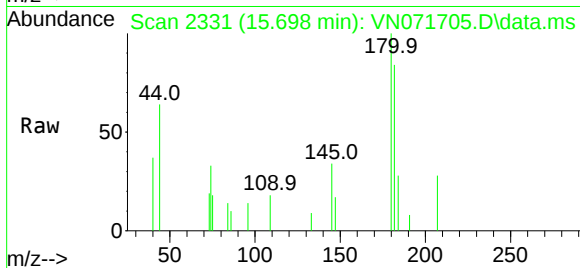
Tgt Ion:180 Resp: 4003

Ion Ratio Lower Upper

180 100

182 89.8 77.7 116.5

145 27.6 26.6 39.8



#90

Hexachlorobutadiene

Concen: 0.238 ug/l

RT: 15.368 min Scan# 2275

Delta R.T. 0.006 min

Lab File: VN071705.D

Acq: 31 Mar 2022 15:37

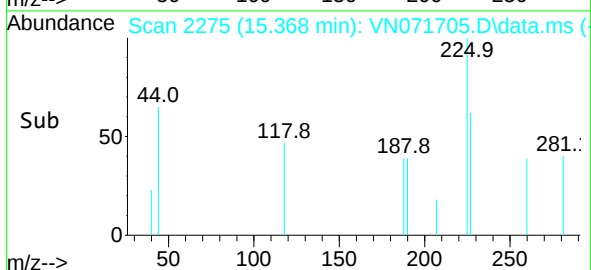
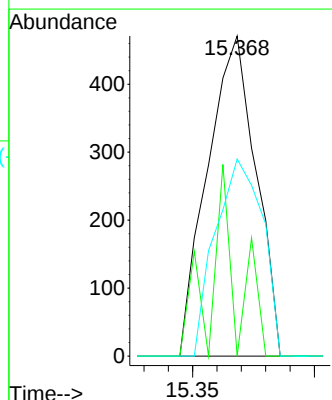
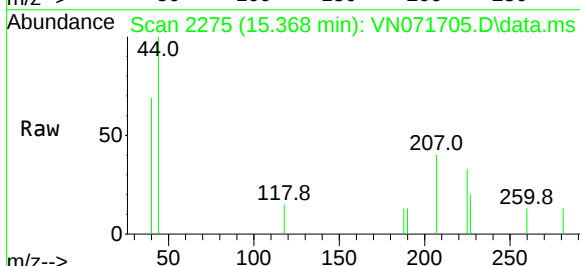
Tgt Ion:225 Resp: 649

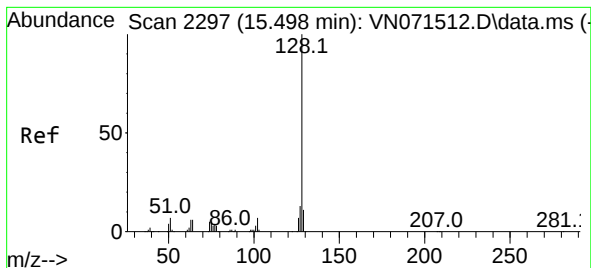
Ion Ratio Lower Upper

225 100

223 15.3 0.0 126.8

227 60.1 0.0 123.0





#91

Naphthalene

Concen: 7.444 ug/l

RT: 15.504 min Scan# 2298

Delta R.T. 0.006 min

Lab File: VN071705.D

Acq: 31 Mar 2022 15:37

Instrument :

MSVOA_N

ClientSampleId :

TT-039-IDWGW-20220329

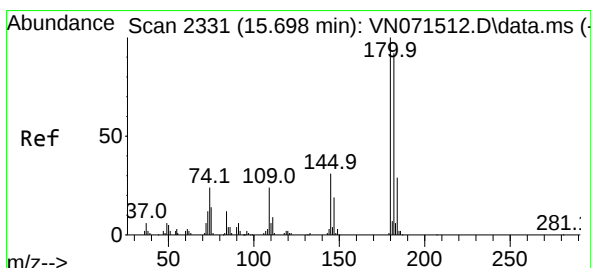
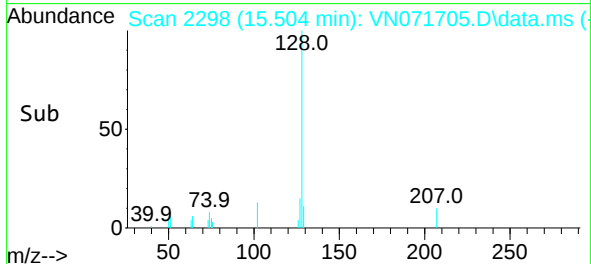
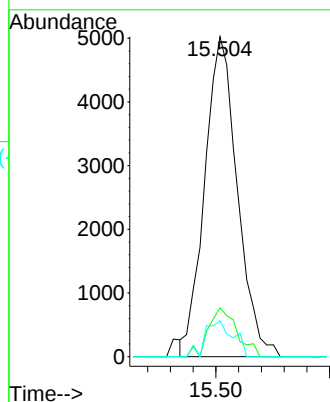
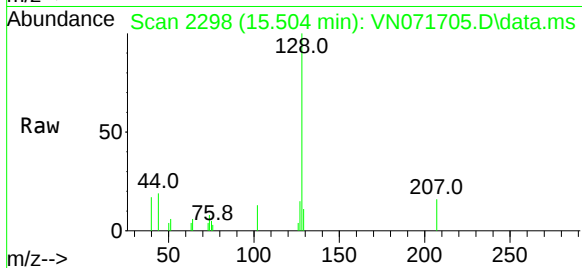
Tgt Ion:128 Resp: 10039

Ion Ratio Lower Upper

128 100

127 11.9 10.7 16.1

129 7.7 9.0 13.6#



#92

1,2,3-Trichlorobenzene

Concen: 0.888 ug/l

RT: 15.698 min Scan# 2331

Delta R.T. -0.000 min

Lab File: VN071705.D

Acq: 31 Mar 2022 15:37

Tgt Ion:180 Resp: 4003

Ion Ratio Lower Upper

180 100

182 89.8 0.0 190.0

145 27.6 0.0 67.8

