

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072504.D
 Acq On : 16 May 2022 16:32
 Operator : JC\MD
 Sample : VN0516WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0516WBL01

Quant Time: May 17 07:18:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 17 06:34:50 2022
 Response via : Initial Calibration

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

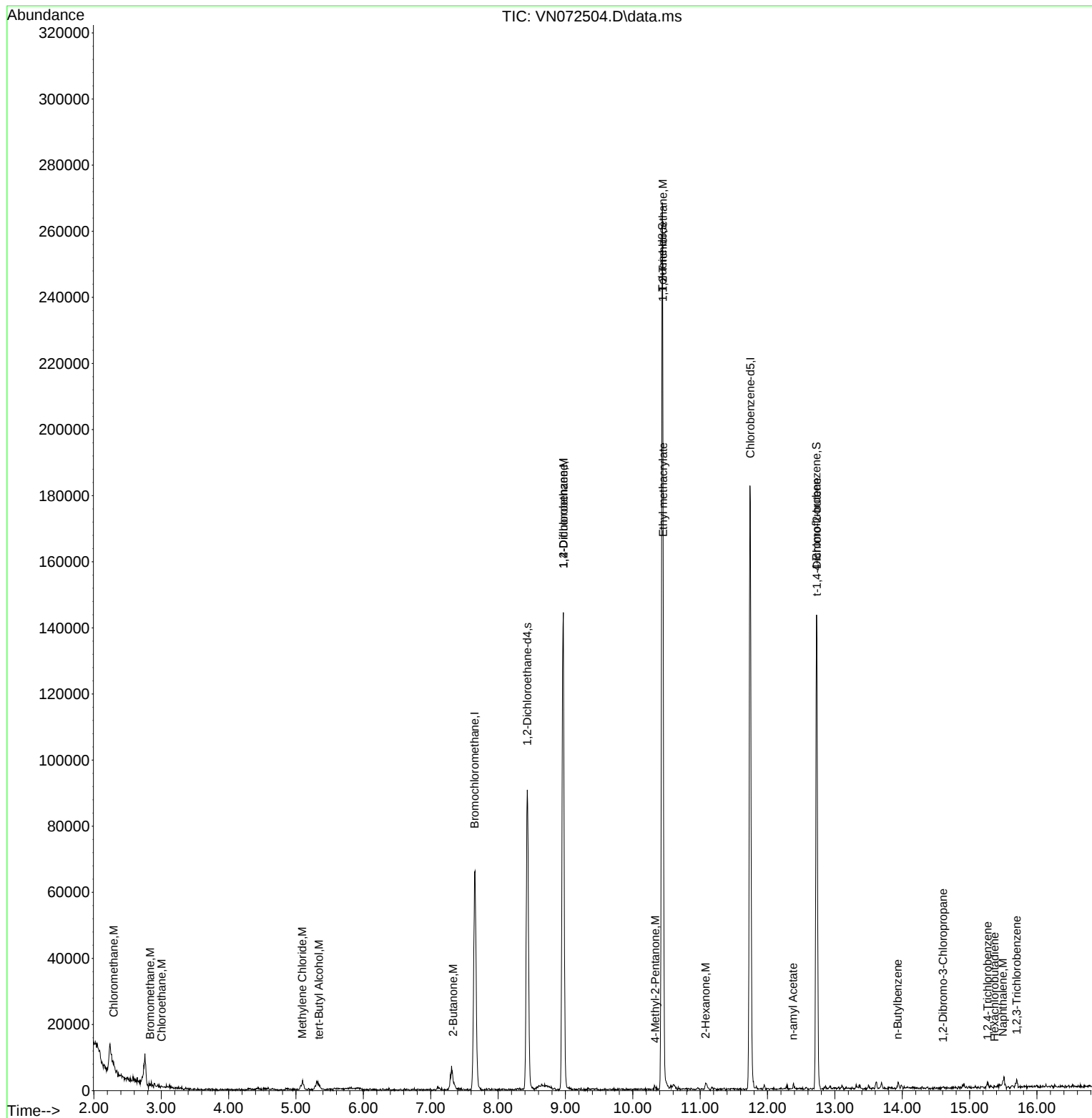
Internal Standards						
1) Bromochloromethane	7.651	128	24092	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.969	114	124018	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.745	117	104752	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	83337	30.741	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.467%
60) 4-Bromofluorobenzene	12.727	95	48488	23.707	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.033%
63) Toluene-d8	10.439	98	179642	31.416	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	104.733%
Target Compounds						
					Qvalue	
3) Chloromethane	2.293	50	423	0.234	ug/l #	40
5) Bromomethane	2.834	94	305	0.246	ug/l #	3
6) Chloroethane	3.004	64	337	0.338	ug/l #	44
18) Methylene Chloride	5.092	84	1078	0.595	ug/l #	54
23) tert-Butyl Alcohol	5.340	59	752	1.640	ug/l #	100
30) 2-Butanone	7.334	43	599	0.419	ug/l #	53
36) 1,2-Dichloroethane	8.969	62	4928	1.508	ug/l #	77
47) n-amyl Acetate	12.380	43	1334	0.446	ug/l #	73
50) 1,1,2-Trichloroethane	10.445	97	5776	3.069	ug/l #	1
51) Ethyl methacrylate	10.451	69	631	0.215	ug/l #	52
58) 4-Methyl-2-Pentanone	10.333	43	876	0.355	ug/l #	79
59) 2-Hexanone	11.080	43	978	0.539	ug/l #	37
77) t-1,4-Dichloro-2-butene	12.733	75	27334	36.489	ug/l #	8
85) n-Butylbenzene	13.933	91	1449	0.300	ug/l	75
88) 1,2-Dibromo-3-Chloropr...	14.604	75	115	0.202	ug/l #	5
89) 1,2,4-Trichlorobenzene	15.268	180	307	0.213	ug/l #	1
90) Hexachlorobutadiene	15.368	225	200	0.225	ug/l #	19
91) Naphthalene	15.492	128	1589	8.024	ug/l #	79
92) 1,2,3-Trichlorobenzene	15.698	180	1165	0.795	ug/l #	61

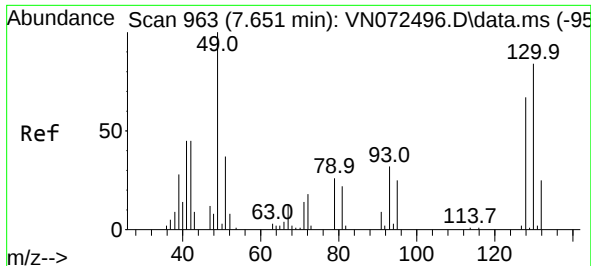
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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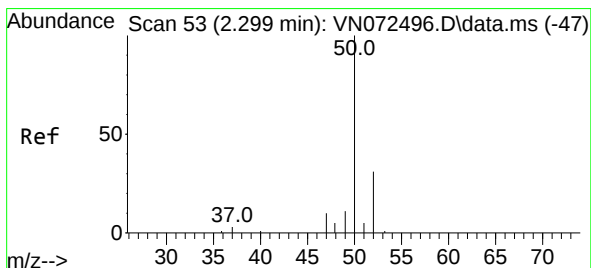
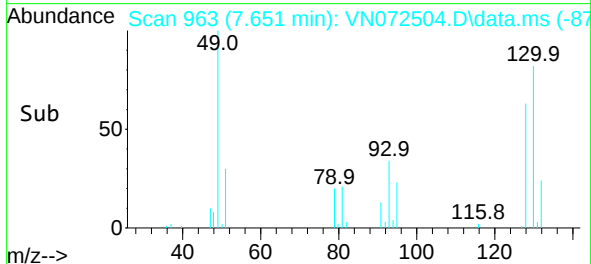
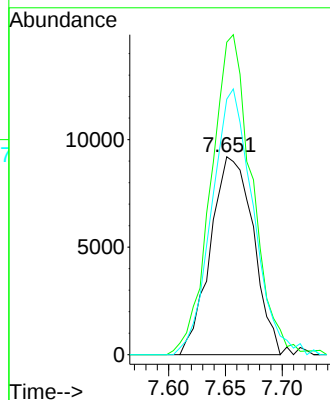
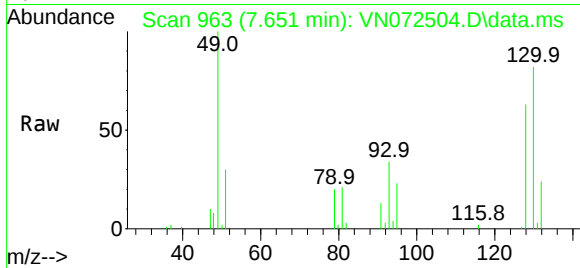




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.651 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN072504.D
Acq: 16 May 2022 16:32

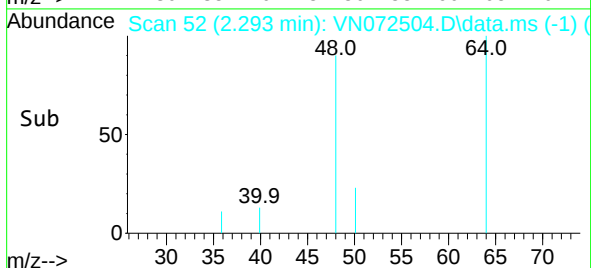
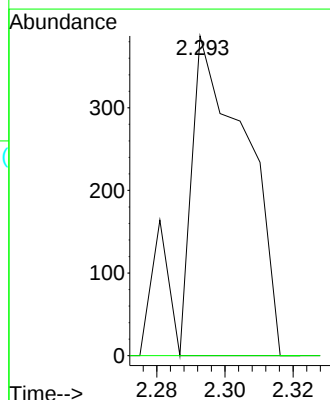
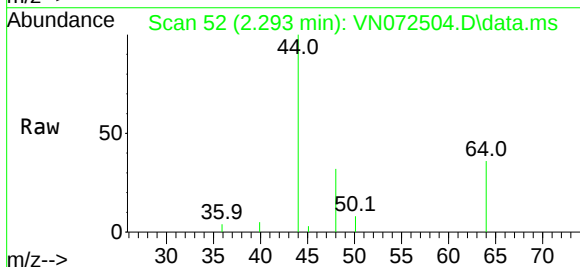
Instrument :
MSVOA_N
ClientSampleId :
VN0516WBL01

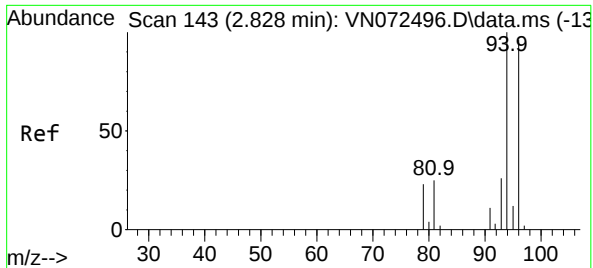
Tgt Ion	Ratio	Lower	Upper
128	100		
49	154.5	0.0	392.3
130	130.2	0.0	320.2



#3
Chloromethane
Concen: 0.234 ug/l
RT: 2.293 min Scan# 52
Delta R.T. -0.006 min
Lab File: VN072504.D
Acq: 16 May 2022 16:32

Tgt Ion	Ratio	Lower	Upper
50	100		
52	0.0	27.8	41.6#





#5

Bromomethane

Concen: 0.246 ug/l

RT: 2.834 min Scan# 14

Delta R.T. 0.006 min

Lab File: VN072504.D

Acq: 16 May 2022 16:32

Instrument :

MSVOA_N

ClientSampleId :

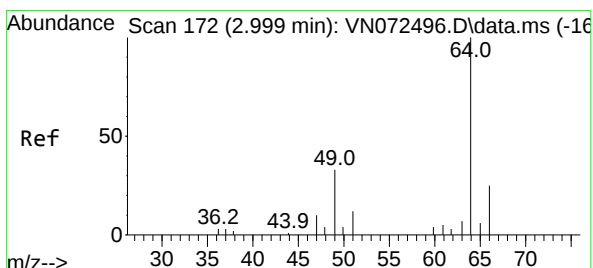
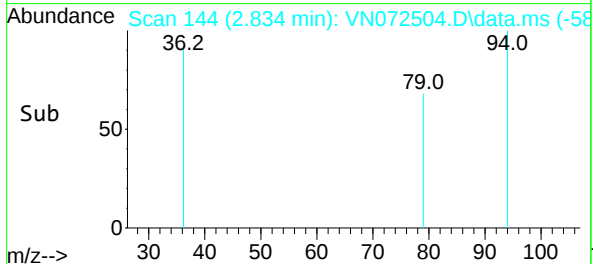
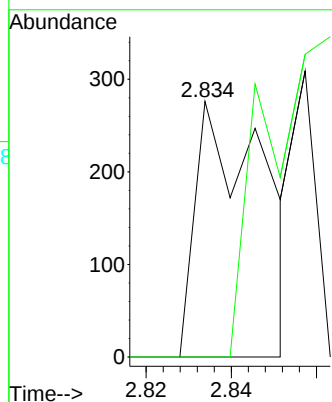
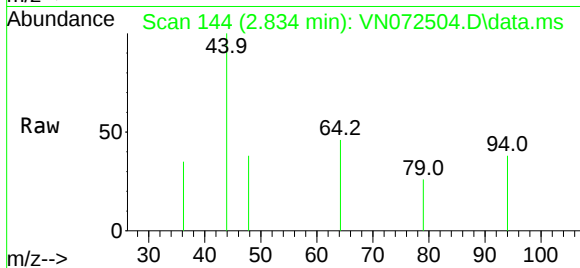
VN0516WBL01

Tgt Ion: 94 Resp: 305

Ion Ratio Lower Upper

94 100

96 0.0 75.2 112.8#



#6

Chloroethane

Concen: 0.338 ug/l

RT: 3.004 min Scan# 173

Delta R.T. 0.006 min

Lab File: VN072504.D

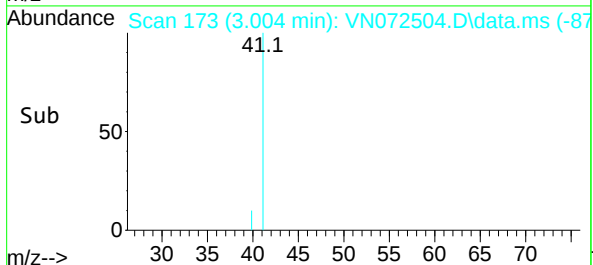
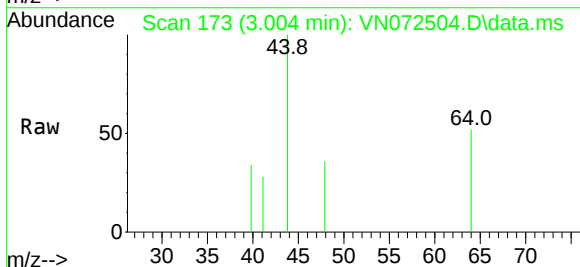
Acq: 16 May 2022 16:32

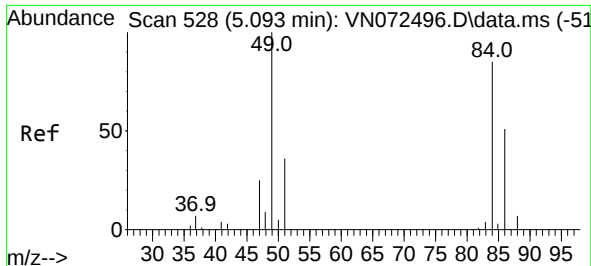
Tgt Ion: 64 Resp: 337

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#





#18

Methylene Chloride

Concen: 0.595 ug/l

RT: 5.092 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN072504.D

Acq: 16 May 2022 16:32

Instrument :

MSVOA_N

ClientSampleId :

VN0516WBL01

Tgt Ion: 84 Resp: 1078

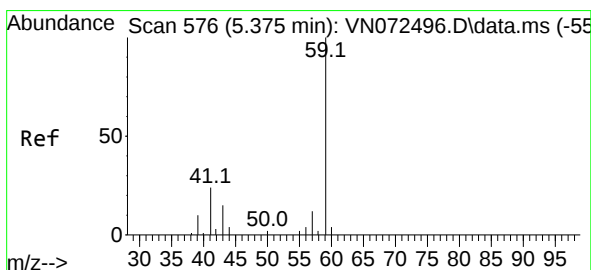
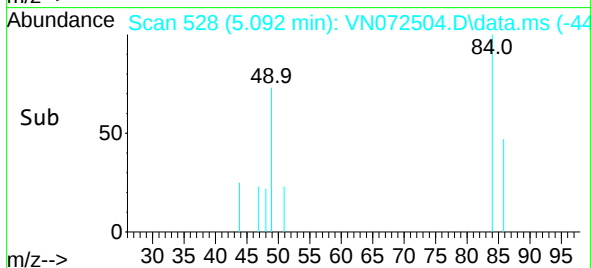
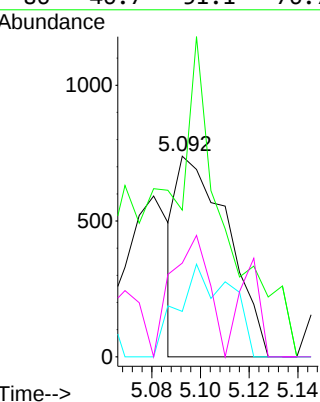
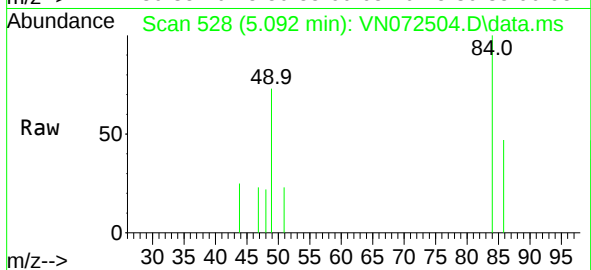
Ion Ratio Lower Upper

84 100

49 43.3 91.4 137.0#

51 22.6 29.4 44.0#

86 46.7 51.1 76.7#



#23

tert-Butyl Alcohol

Concen: 1.640 ug/l

RT: 5.340 min Scan# 570

Delta R.T. -0.035 min

Lab File: VN072504.D

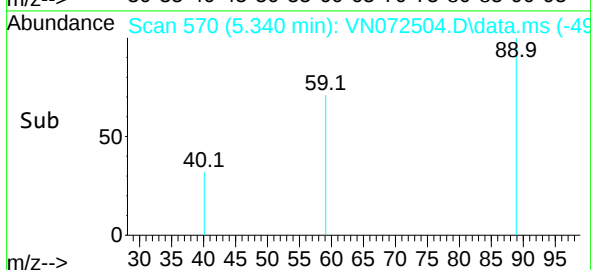
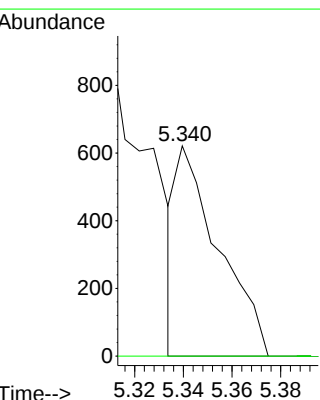
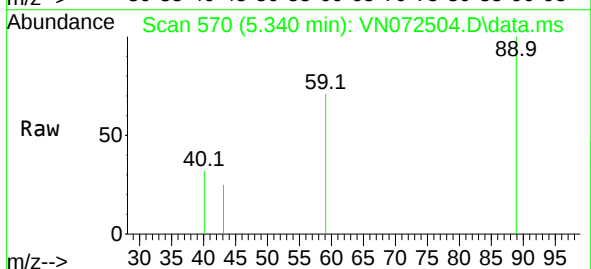
Acq: 16 May 2022 16:32

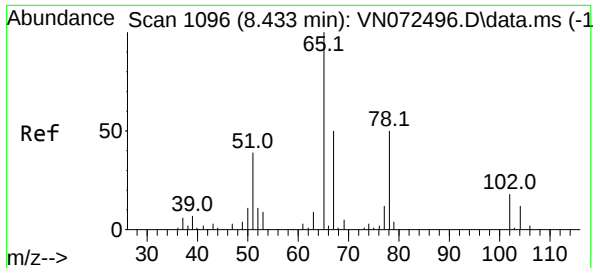
Tgt Ion: 59 Resp: 752

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

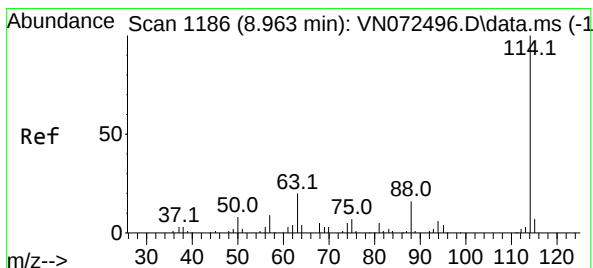
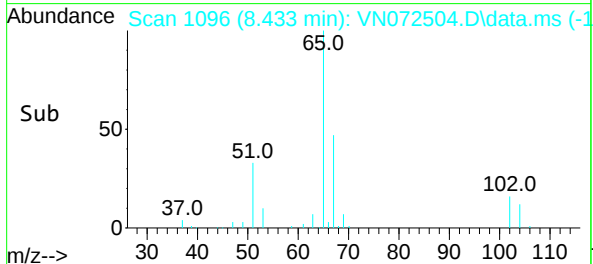
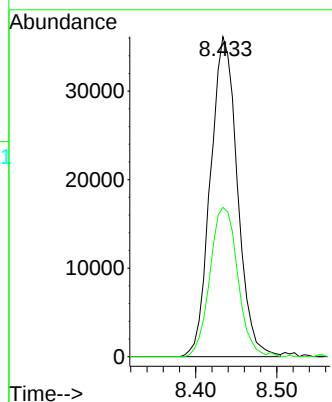
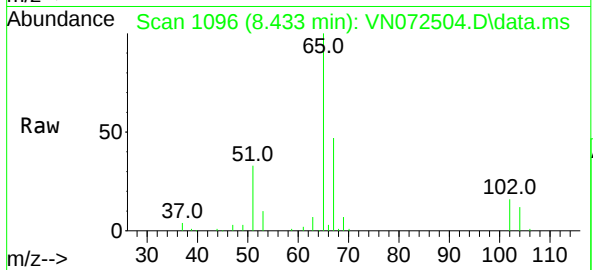




#27
1,2-Dichloroethane-d4
Concen: 30.741 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN072504.D
Acq: 16 May 2022 16:32

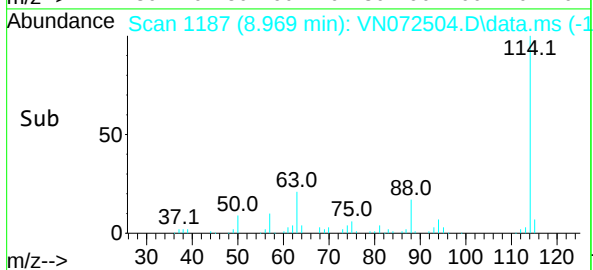
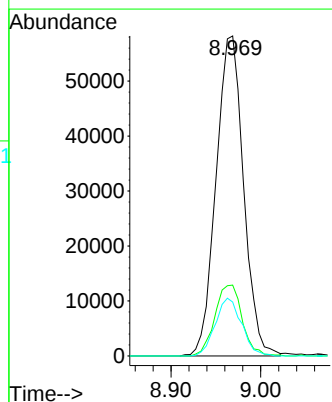
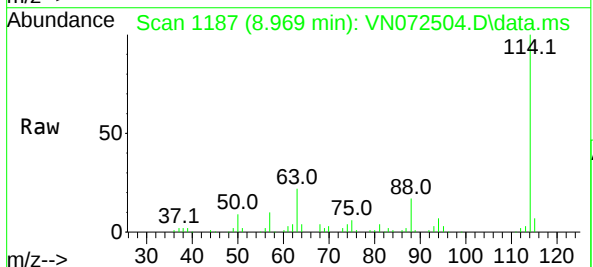
Instrument :
MSVOA_N
ClientSampleId :
VN0516WBL01

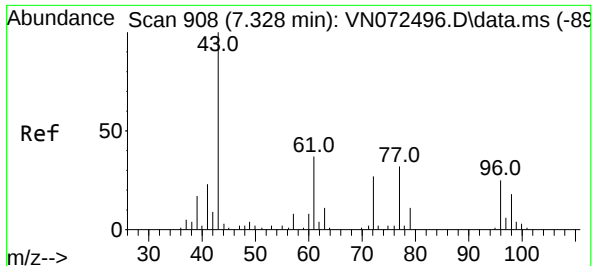
Tgt Ion: 65 Resp: 83337
Ion Ratio Lower Upper
65 100
67 47.9 40.2 60.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.969 min Scan# 1187
Delta R.T. 0.006 min
Lab File: VN072504.D
Acq: 16 May 2022 16:32

Tgt Ion: 114 Resp: 124018
Ion Ratio Lower Upper
114 100
63 22.0 15.8 23.6
88 17.3 11.6 17.4





#30

2-Butanone

Concen: 0.419 ug/l

RT: 7.334 min Scan# 908

Delta R.T. 0.006 min

Lab File: VN072504.D

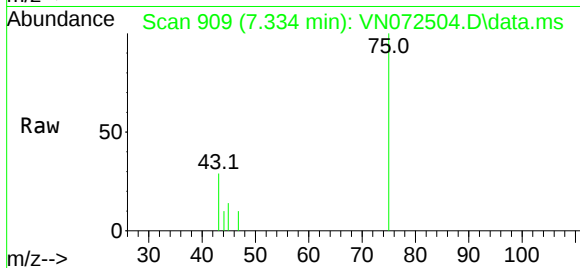
Acq: 16 May 2022 16:32

Instrument :

MSVOA_N

ClientSampleId :

VN0516WBL01



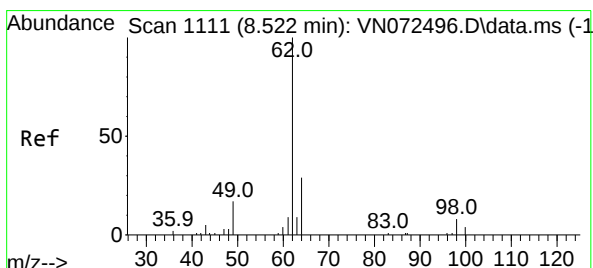
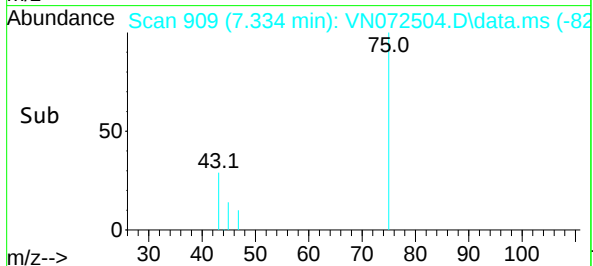
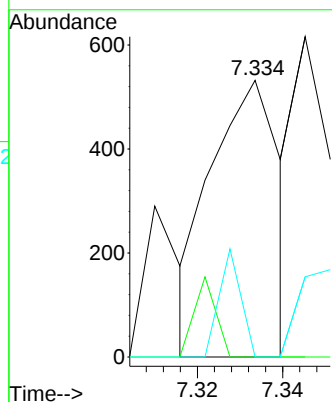
Tgt Ion: 43 Resp: 599

Ion Ratio Lower Upper

43 100

57 0.0 6.7 10.1#

72 0.0 23.2 34.8#



#36

1,2-Dichloroethane

Concen: 1.508 ug/l

RT: 8.969 min Scan# 1187

Delta R.T. 0.447 min

Lab File: VN072504.D

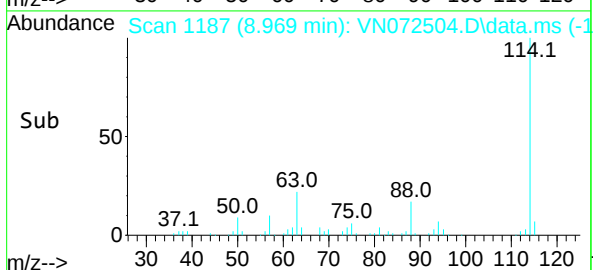
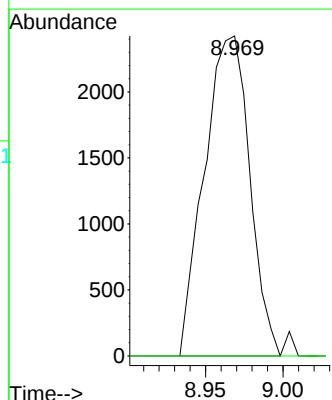
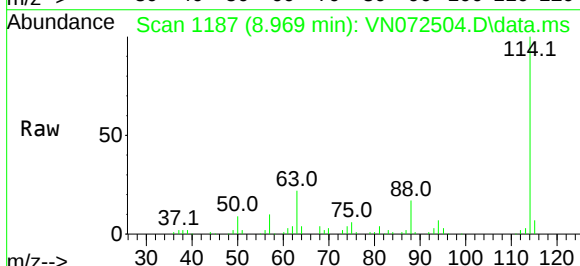
Acq: 16 May 2022 16:32

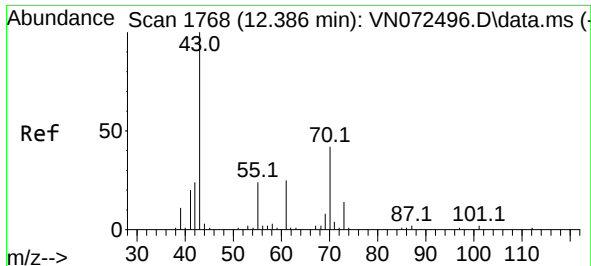
Tgt Ion: 62 Resp: 4928

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#

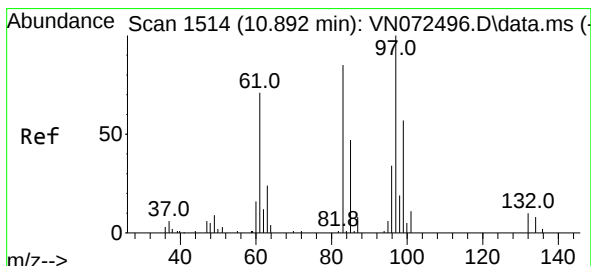
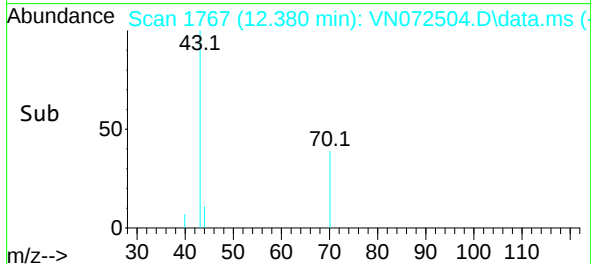
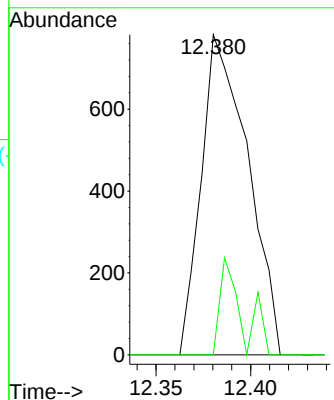
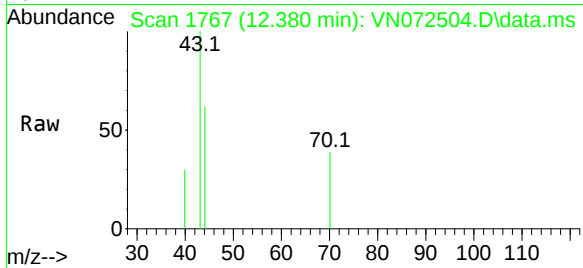




#47
n-amy1 Acetate
Concen: 0.446 ug/l
RT: 12.380 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN072504.D
Acq: 16 May 2022 16:32

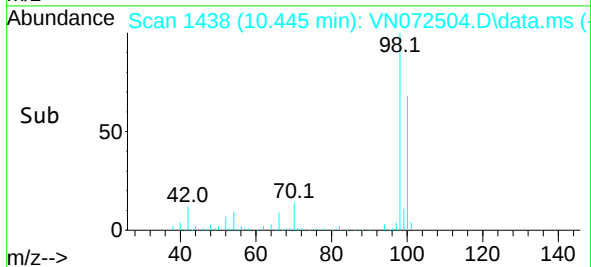
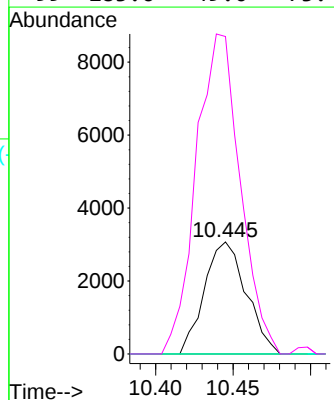
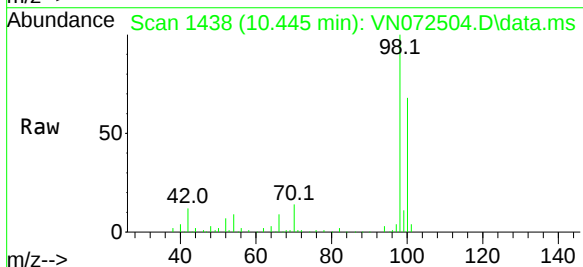
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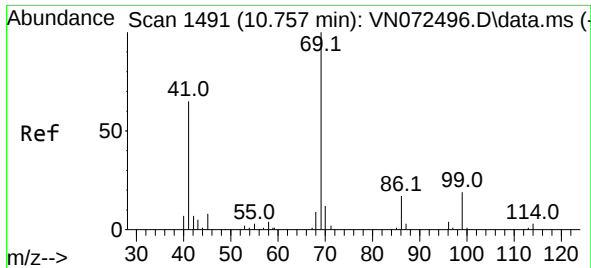
Tgt Ion: 43 Resp: 1334
Ion Ratio Lower Upper
43 100
55 10.3 19.0 28.6#



#50
1,1,2-Trichloroethane
Concen: 3.069 ug/l
RT: 10.445 min Scan# 1438
Delta R.T. -0.447 min
Lab File: VN072504.D
Acq: 16 May 2022 16:32

Tgt Ion: 97 Resp: 5776
Ion Ratio Lower Upper
97 100
83 0.0 67.2 100.8#
85 0.0 43.0 64.4#
99 283.6 49.0 73.4#

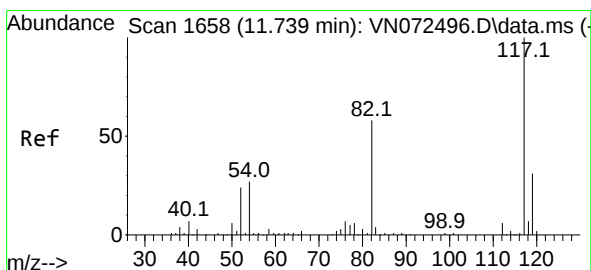
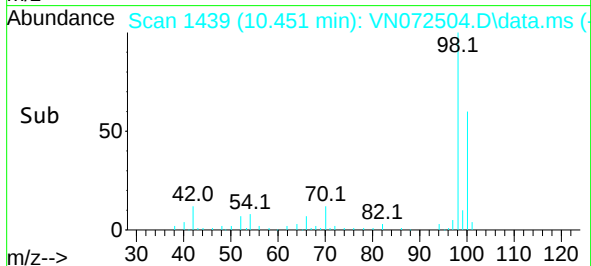
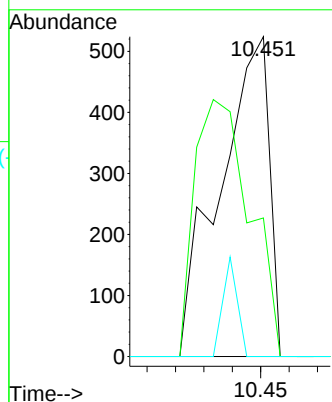
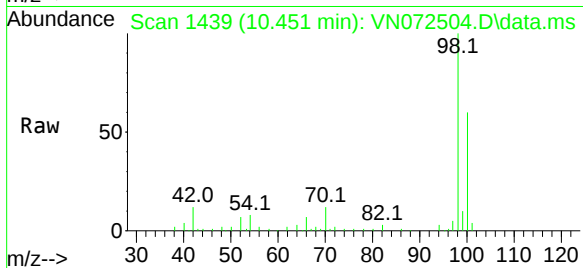




#51
Ethyl methacrylate
Concen: 0.215 ug/l
RT: 10.451 min Scan# 1491
Delta R.T. -0.306 min
Lab File: VN072504.D
Acq: 16 May 2022 16:32

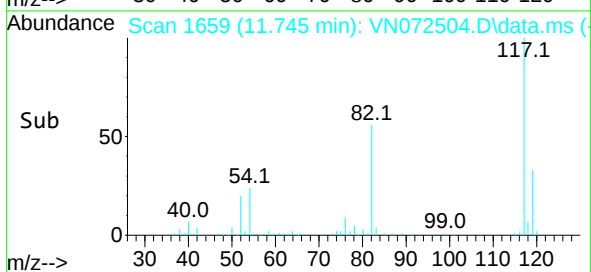
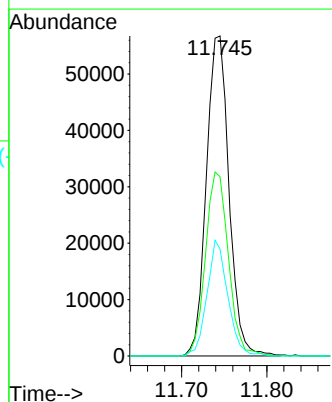
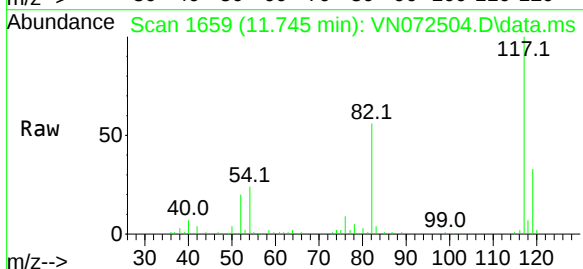
Instrument :
MSVOA_N
ClientSampleId :
VN0516WBL01

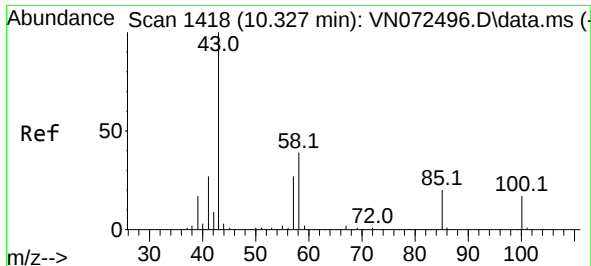
Tgt Ion: 69 Resp: 631
Ion Ratio Lower Upper
69 100
41 43.3 33.0 98.9
39 0.0 25.4 76.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.745 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VN072504.D
Acq: 16 May 2022 16:32

Tgt Ion: 117 Resp: 104752
Ion Ratio Lower Upper
117 100
82 57.7 43.6 65.4
119 33.0 25.8 38.6





#58

4-Methyl-2-Pentanone

Concen: 0.355 ug/l

RT: 10.333 min Scan# 1419

Delta R.T. 0.006 min

Lab File: VN072504.D

Acq: 16 May 2022 16:32

Instrument :

MSVOA_N

ClientSampleId :

VN0516WBL01

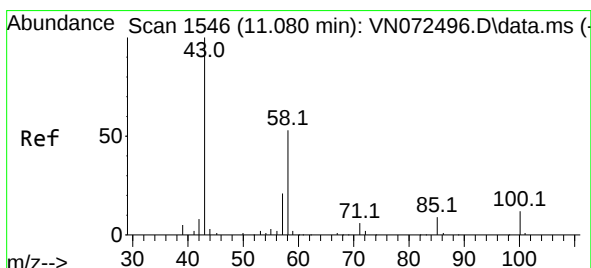
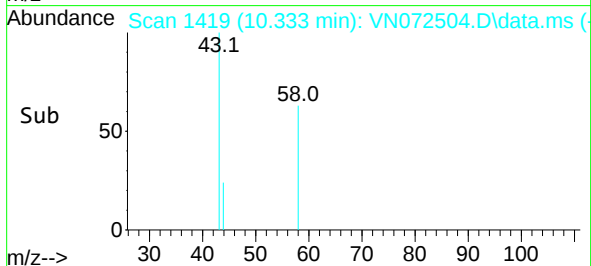
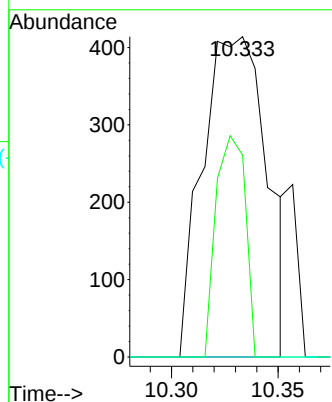
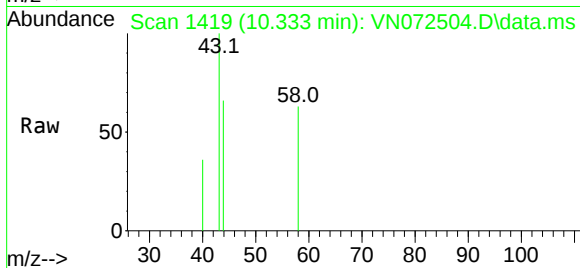
Tgt Ion: 43 Resp: 876

Ion Ratio Lower Upper

43 100

58 31.4 30.0 45.0

85 0.0 15.0 22.6#



#59

2-Hexanone

Concen: 0.539 ug/l

RT: 11.080 min Scan# 1546

Delta R.T. -0.000 min

Lab File: VN072504.D

Acq: 16 May 2022 16:32

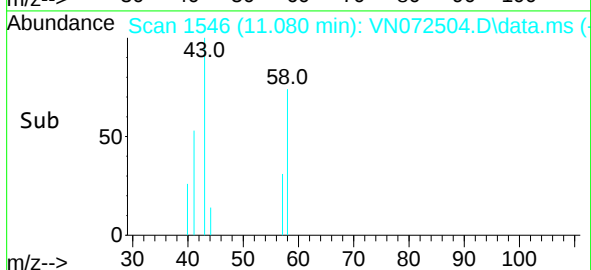
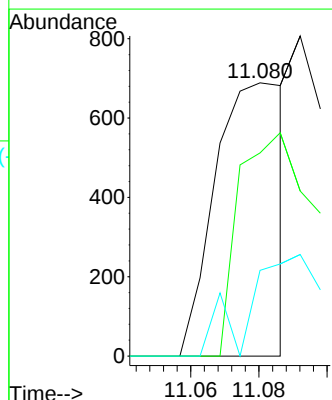
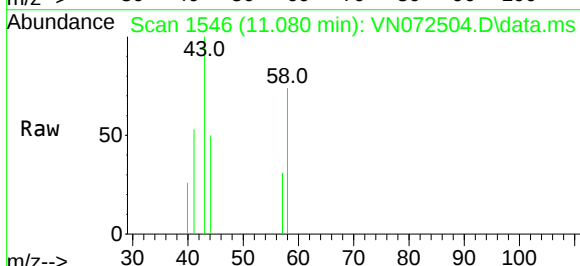
Tgt Ion: 43 Resp: 978

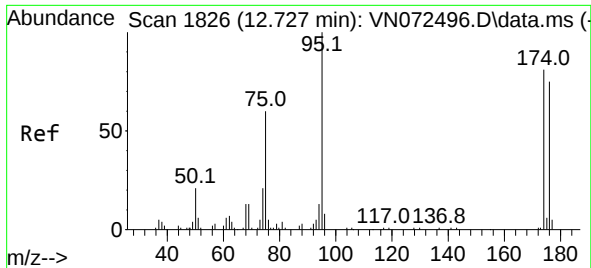
Ion Ratio Lower Upper

43 100

58 0.0 42.2 63.2#

57 5.7 15.0 22.4#

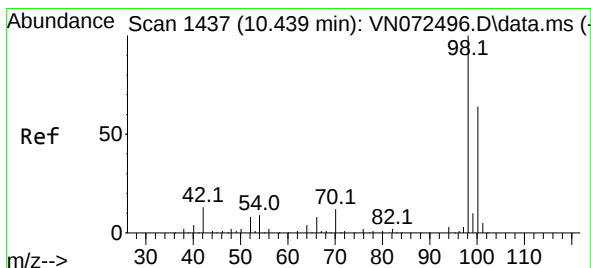
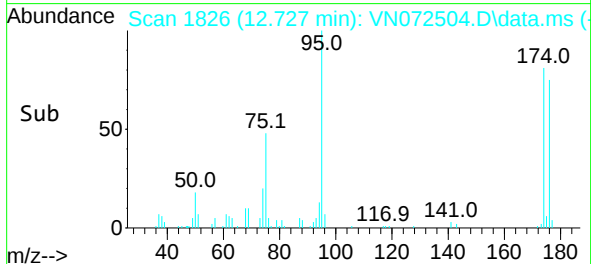
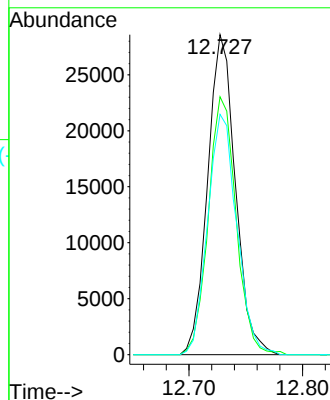
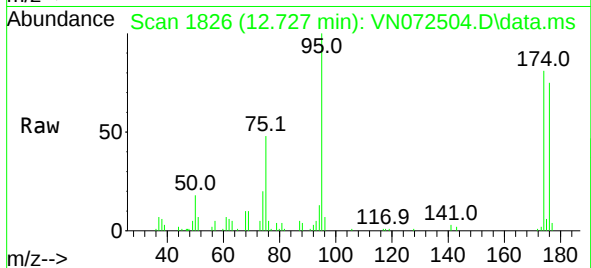




#60
4-Bromofluorobenzene
Concen: 23.707 ug/l
RT: 12.727 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN072504.D
Acq: 16 May 2022 16:32

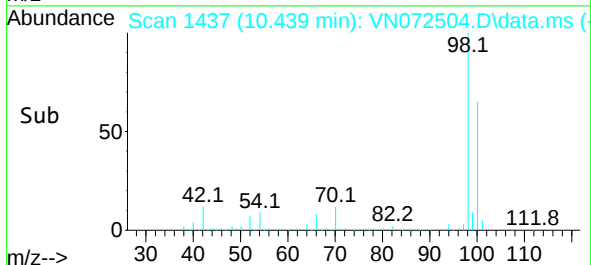
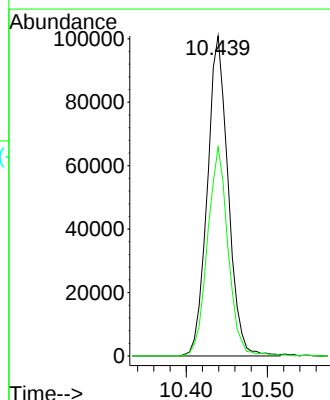
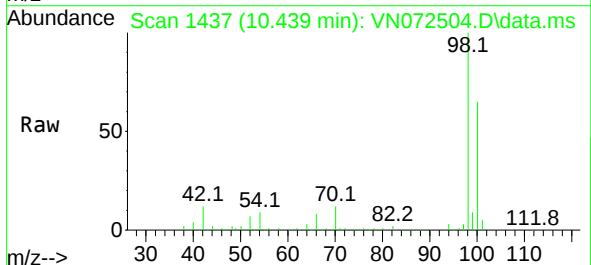
Instrument :
MSVOA_N
ClientSampleId :
VN0516WBL01

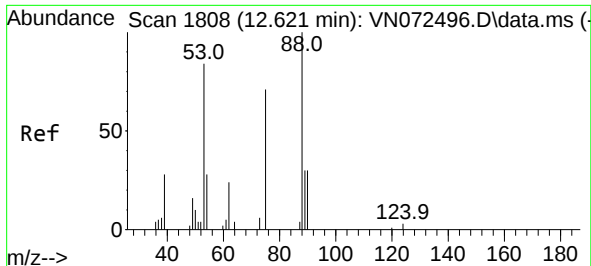
Tgt Ion: 95 Resp: 48488
Ion Ratio Lower Upper
95 100
174 80.5 62.9 94.3
176 78.9 61.0 91.4



#63
Toluene-d8
Concen: 31.416 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VN072504.D
Acq: 16 May 2022 16:32

Tgt Ion: 98 Resp: 179642
Ion Ratio Lower Upper
98 100
100 63.9 50.6 76.0





#77

t-1,4-Dichloro-2-butene

Concen: 36.489 ug/l

RT: 12.733 min Scan# 1808

Delta R.T. 0.112 min

Lab File: VN072504.D

Acq: 16 May 2022 16:32

Instrument :

MSVOA_N

ClientSampleId :

VN0516WBL01

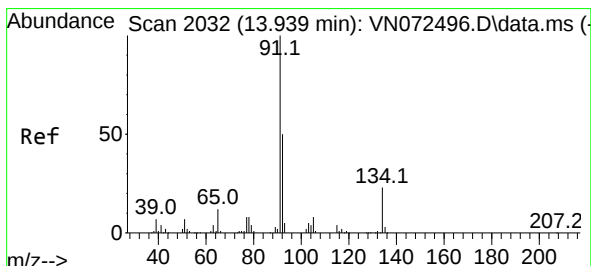
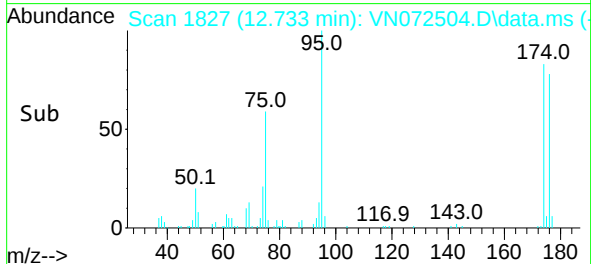
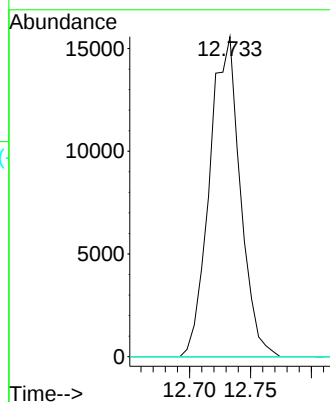
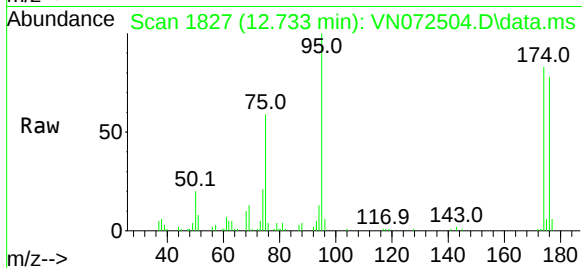
Tgt Ion: 75 Resp: 27334

Ion Ratio Lower Upper

75 100

53 0.0 51.8 155.5#

89 0.0 22.9 68.7#



#85

n-Butylbenzene

Concen: 0.300 ug/l

RT: 13.933 min Scan# 2031

Delta R.T. -0.006 min

Lab File: VN072504.D

Acq: 16 May 2022 16:32

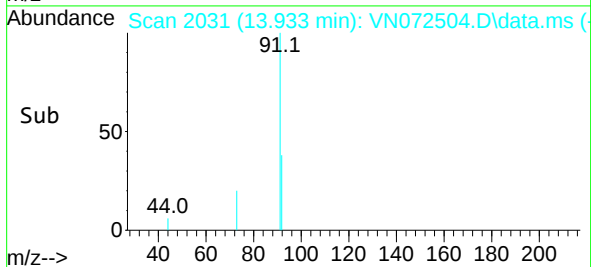
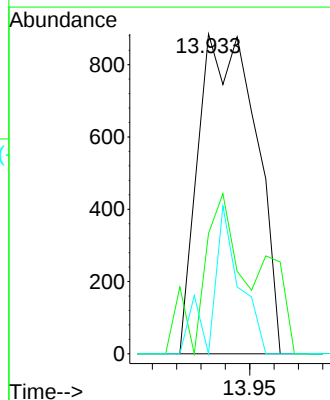
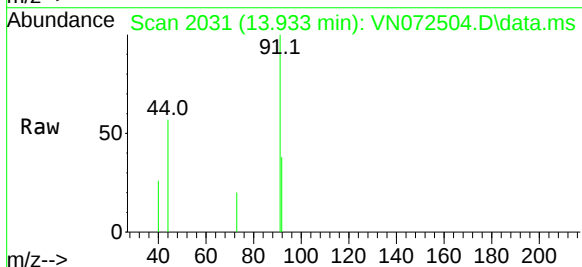
Tgt Ion: 91 Resp: 1449

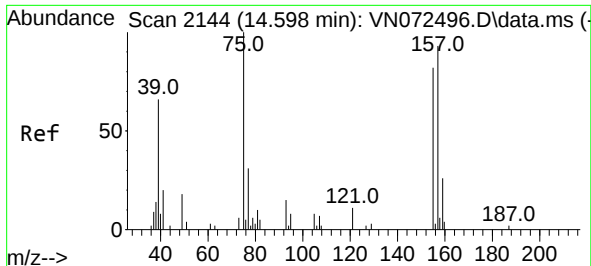
Ion Ratio Lower Upper

91 100

92 28.7 0.0 100.6

134 18.3 0.0 50.2

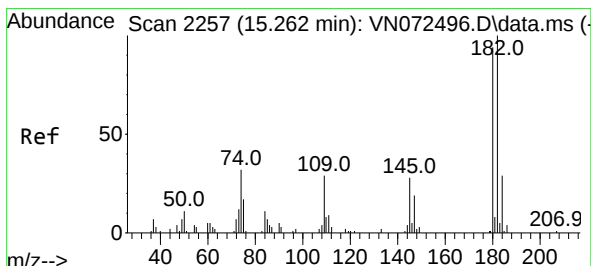
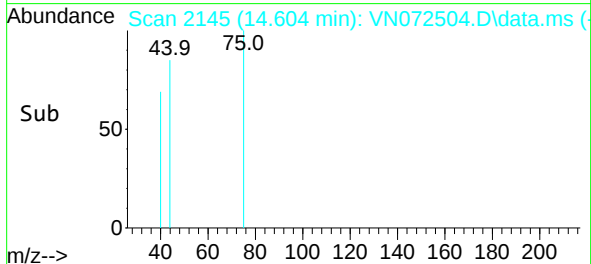
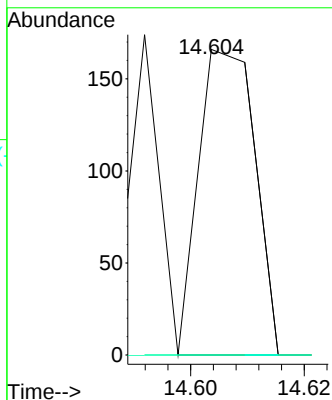
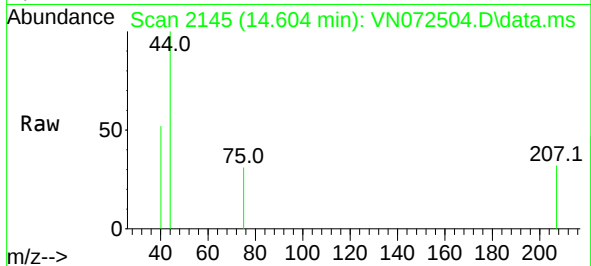




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.202 ug/l
 RT: 14.604 min Scan# 2145
 Delta R.T. 0.006 min
 Lab File: VN072504.D
 Acq: 16 May 2022 16:32

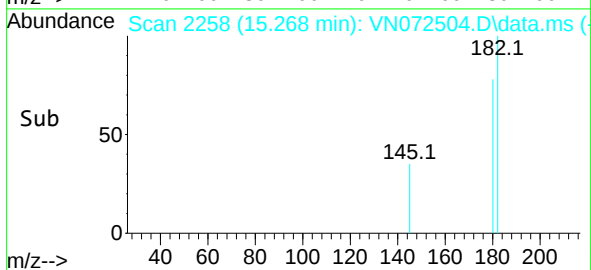
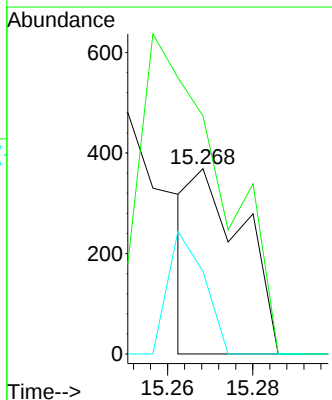
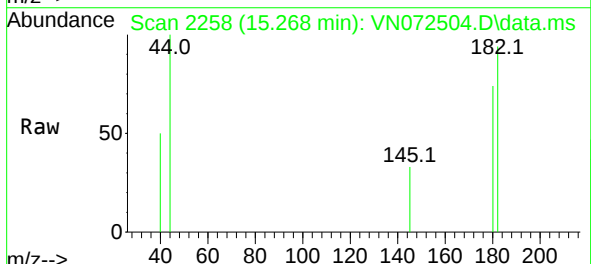
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0516WBL01

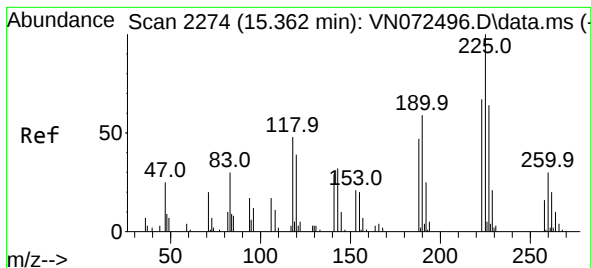
Tgt Ion: 75 Resp: 115
 Ion Ratio Lower Upper
 75 100
 155 0.0 63.8 95.8#
 157 0.0 77.9 116.9#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.213 ug/l
 RT: 15.268 min Scan# 2258
 Delta R.T. 0.006 min
 Lab File: VN072504.D
 Acq: 16 May 2022 16:32

Tgt Ion: 180 Resp: 307
 Ion Ratio Lower Upper
 180 100
 182 313.0 77.7 116.5#
 145 46.9 26.6 39.8#





#90

Hexachlorobutadiene

Concen: 0.225 ug/l

RT: 15.368 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN072504.D

Acq: 16 May 2022 16:32

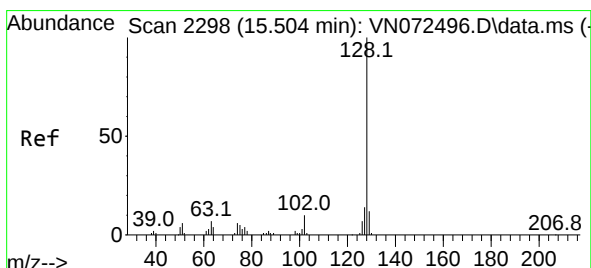
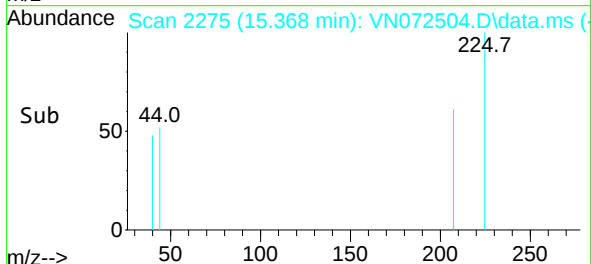
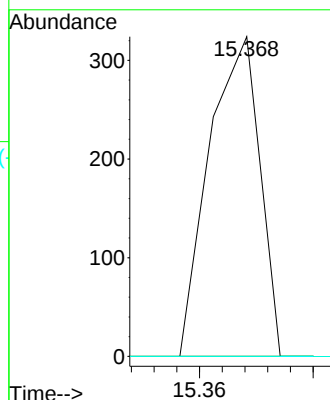
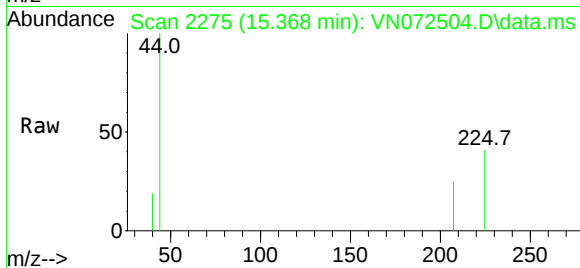
Instrument :

MSVOA_N

ClientSampleId :

VN0516WBL01

Tgt Ion:	225	Resp:	200
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	126.8
227	0.0	0.0	123.0



#91

Naphthalene

Concen: 8.024 ug/l

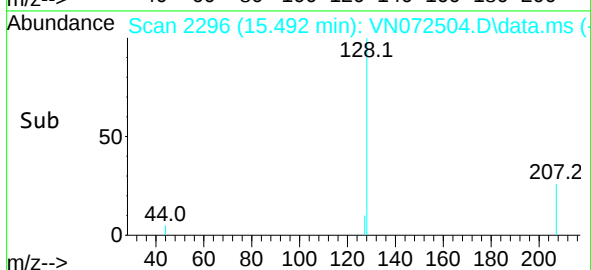
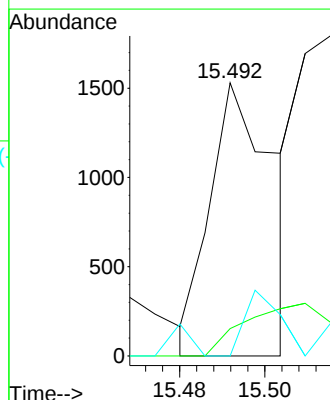
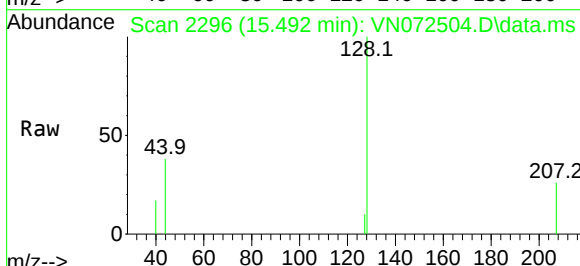
RT: 15.492 min Scan# 2296

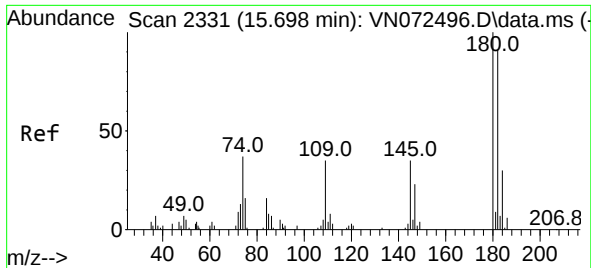
Delta R.T. -0.012 min

Lab File: VN072504.D

Acq: 16 May 2022 16:32

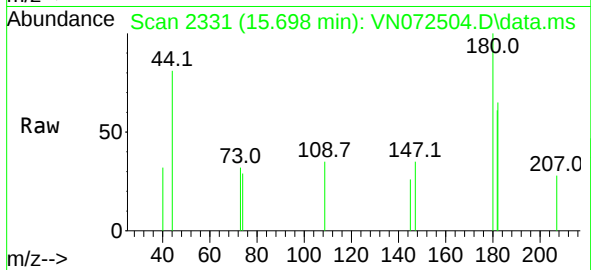
Tgt Ion:	128	Resp:	1589
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.7	16.1#
129	13.3	9.0	13.6





#92
 1,2,3-Trichlorobenzene
 Concen: 0.795 ug/l
 RT: 15.698 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN072504.D
 Acq: 16 May 2022 16:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0516WBL01



Tgt Ion:	180	Resp:	1165
Ion	Ratio	Lower	Upper
180	100		
182	63.8	0.0	190.0
145	0.0	0.0	67.8

