

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072507.D
 Acq On : 16 May 2022 17:44
 Operator : JC\MD
 Sample : N2837-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-TB-20220512

Quant Time: May 17 07:19:17 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)

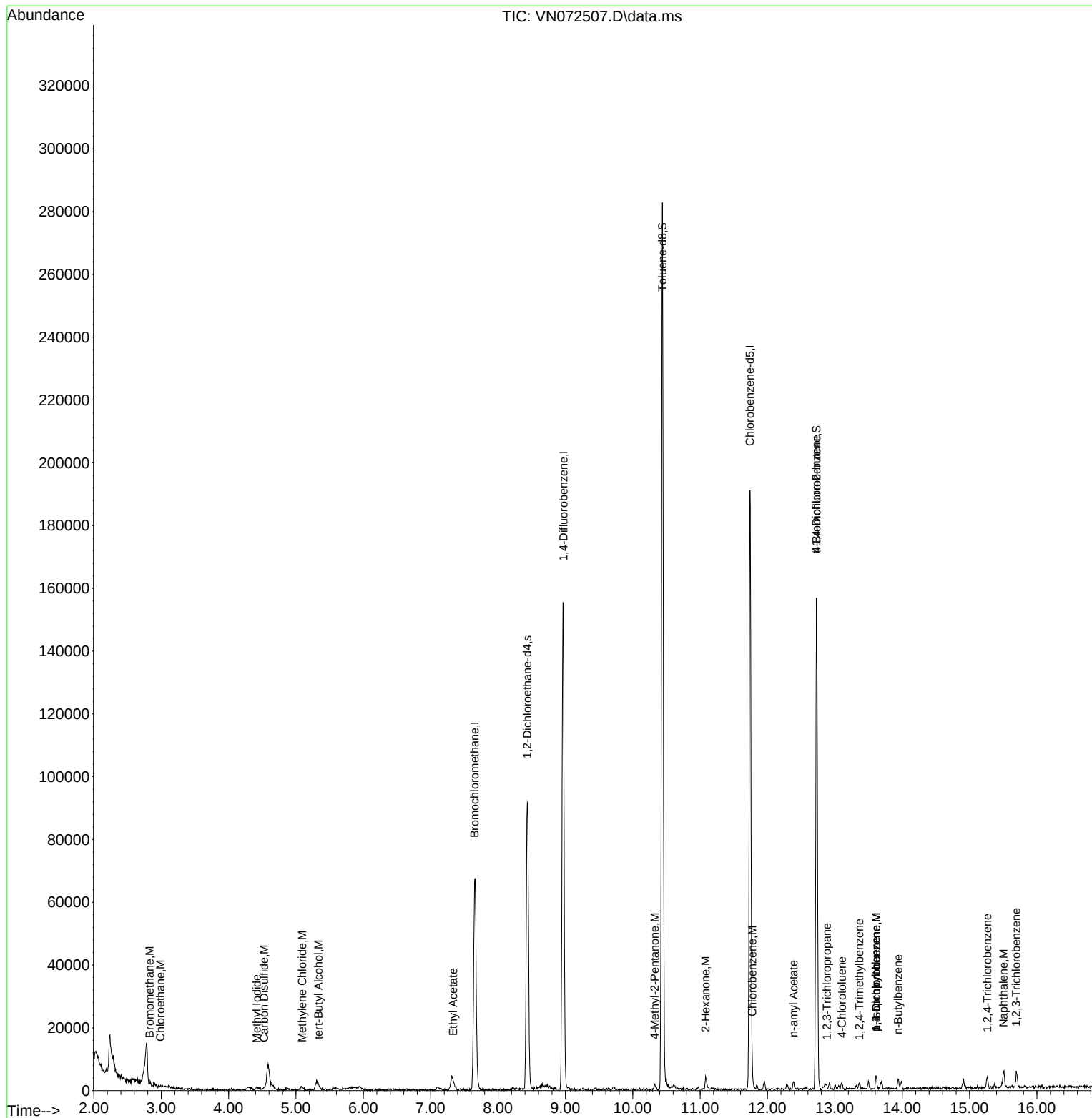
Internal Standards						
1) Bromochloromethane	7.651	128	26499	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.969	114	131593	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	111062	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	87176	29.236	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.467%		
60) 4-Bromofluorobenzene	12.727	95	54311	25.045	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	83.500%		
63) Toluene-d8	10.439	98	191307	31.555	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	105.200%		
Target Compounds						Qvalue
5) Bromomethane	2.828	94	386	0.283	ug/l	83
6) Chloroethane	2.987	64	416	0.380	ug/l #	44
11) Methyl Iodide	4.416	142	578	0.228	ug/l #	5
16) Carbon Disulfide	4.528	76	907	0.208	ug/l #	73
18) Methylene Chloride	5.093	84	463	0.232	ug/l #	7
23) tert-Butyl Alcohol	5.334	59	641	1.271	ug/l #	100
43) Ethyl Acetate	7.334	43	2148	0.725	ug/l #	74
47) n-amyl Acetate	12.386	43	1877	0.591	ug/l #	89
58) 4-Methyl-2-Pentanone	10.327	43	1570	0.600	ug/l #	58
59) 2-Hexanone	11.080	43	3233	1.682	ug/l #	87
64) Chlorobenzene	11.774	112	977	0.209	ug/l	97
72) 1,2,3-Trichloropropane	12.880	75	567	0.236	ug/l	1
77) t-1,4-Dichloro-2-butene	12.727	75	30797	38.776	ug/l #	9
78) 4-Chlorotoluene	13.104	91	1755	0.315	ug/l	94
80) 1,2,4-Trimethylbenzene	13.363	105	1567	0.227	ug/l #	88
82) p-Isopropyltoluene	13.610	119	1578	0.228	ug/l	95
83) 1,3-Dichlorobenzene	13.616	146	1131	0.328	ug/l	92
84) 1,4-Dichlorobenzene	13.616	146	1131	0.337	ug/l	92
85) n-Butylbenzene	13.939	91	2343	0.457	ug/l	85
89) 1,2,4-Trichlorobenzene	15.262	180	1815	1.189	ug/l #	49
91) Naphthalene	15.504	128	6406	8.751	ug/l #	81
92) 1,2,3-Trichlorobenzene	15.692	180	1217	0.784	ug/l	30

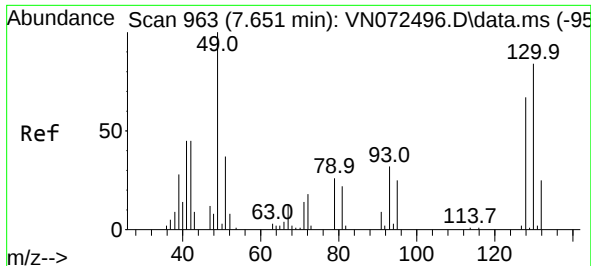
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TT-TB-20220512

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue May 17 06:34:50 2022
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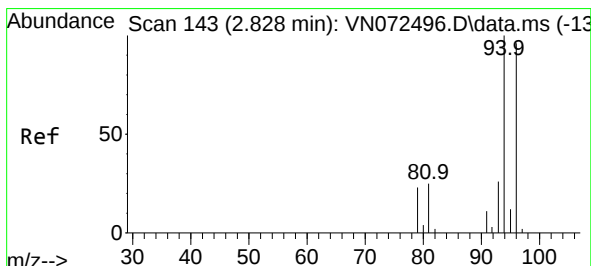
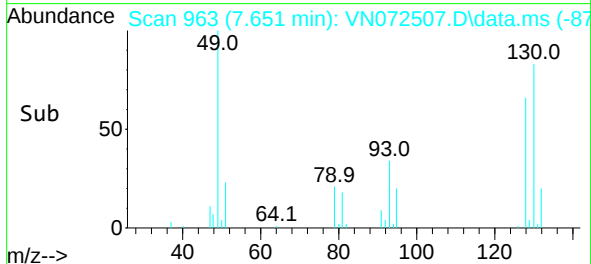
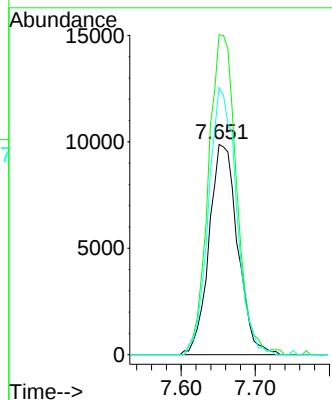
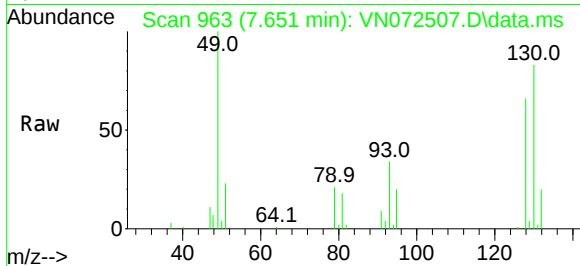




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.651 min Scan# 90
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

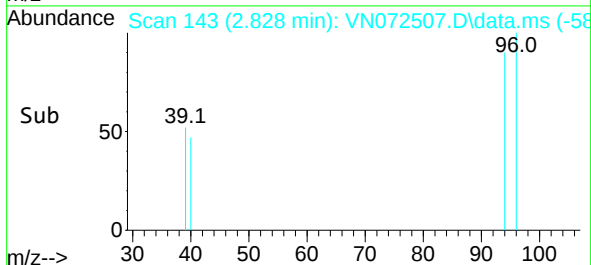
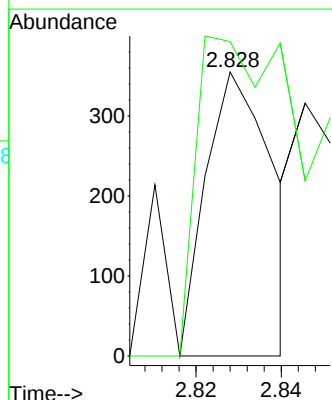
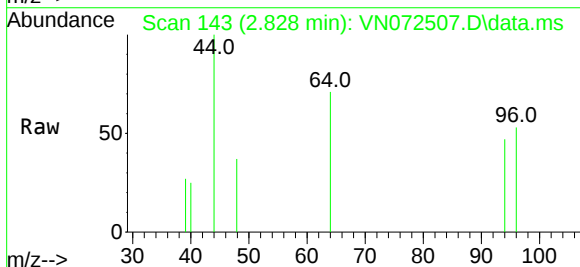
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MSVOA_N
ClientSampleId :
TT-TB-20220512

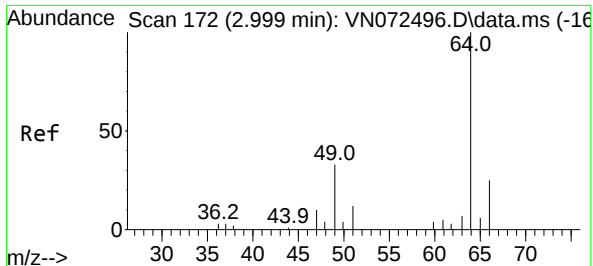
Tgt Ion:128 Resp: 26499
Ion Ratio Lower Upper
128 100
49 148.5 0.0 392.3
130 124.0 0.0 320.2



#5
Bromomethane
Concen: 0.283 ug/l
RT: 2.828 min Scan# 143
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Tgt Ion: 94 Resp: 386
Ion Ratio Lower Upper
94 100
96 110.7 75.2 112.8

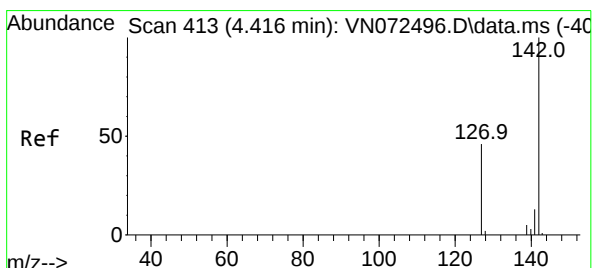
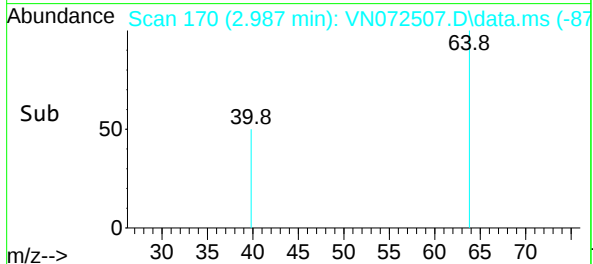
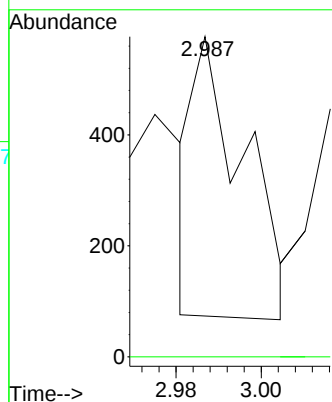
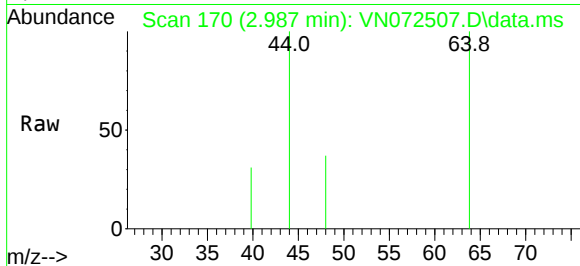




#6
Chloroethane
Concen: 0.380 ug/l
RT: 2.987 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

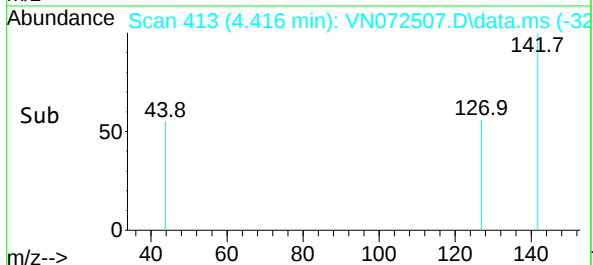
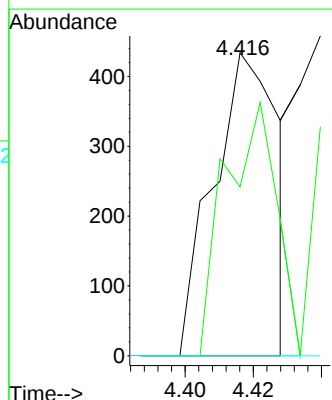
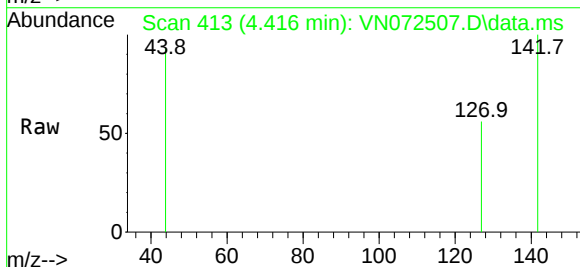
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ClientSampleId :
TT-TB-20220512

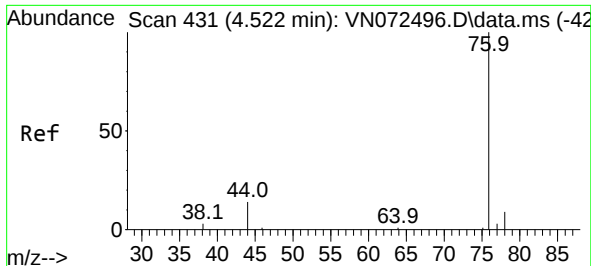
Tgt Ion: 64 Resp: 416
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#11
Methyl Iodide
Concen: 0.228 ug/l
RT: 4.416 min Scan# 413
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Tgt Ion:142 Resp: 578
Ion Ratio Lower Upper
142 100
127 54.2 24.0 72.0
141 163.5 8.4 25.2#

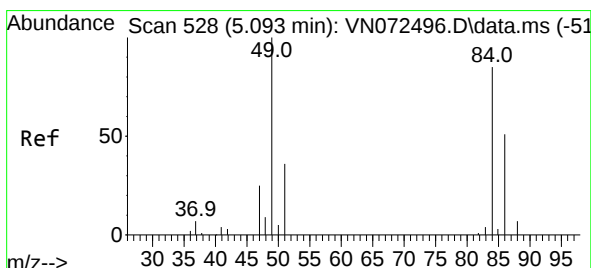
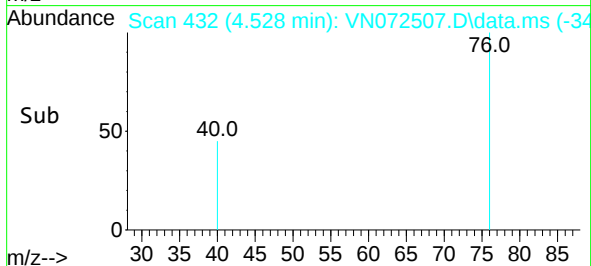
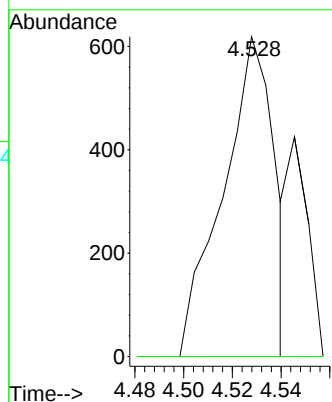
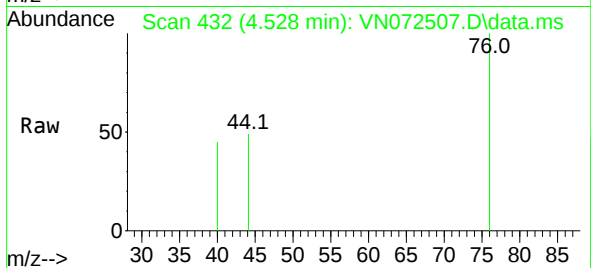




#16
Carbon Disulfide
Concen: 0.208 ug/l
RT: 4.528 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

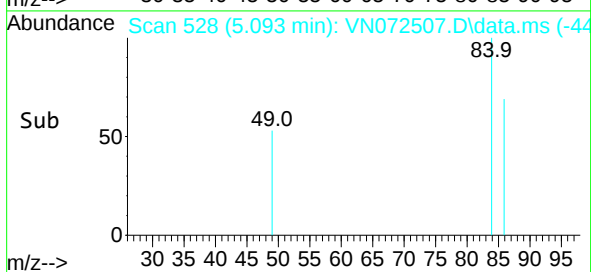
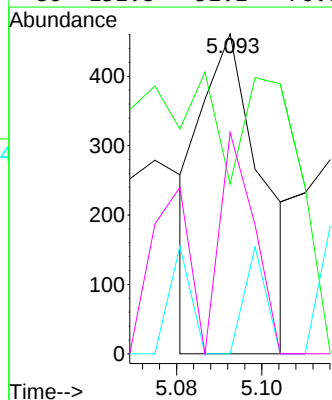
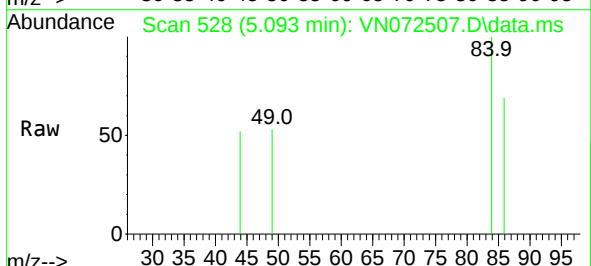
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20220512

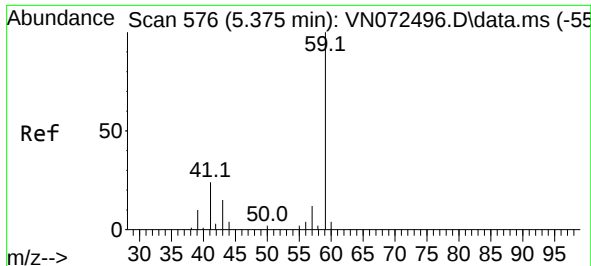
Tgt Ion: 76 Resp: 907
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.8#



#18
Methylene Chloride
Concen: 0.232 ug/l
RT: 5.093 min Scan# 528
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Tgt Ion: 84 Resp: 463
Ion Ratio Lower Upper
84 100
49 0.0 91.4 137.0#
51 0.0 29.4 44.0#
86 131.8 51.1 76.7#





#23

tert-Butyl Alcohol

Concen: 1.271 ug/l

RT: 5.334 min Scan# 5

Delta R.T. -0.041 min

Lab File: VN072507.D

Acq: 16 May 2022 17:44

Instrument :

MSVOA_N

ClientSampleId :

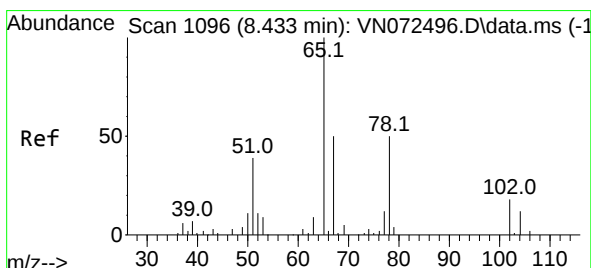
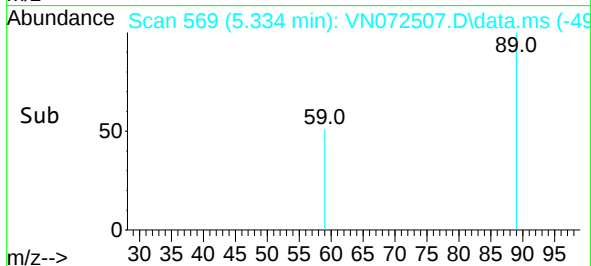
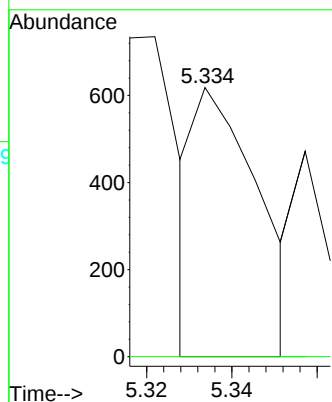
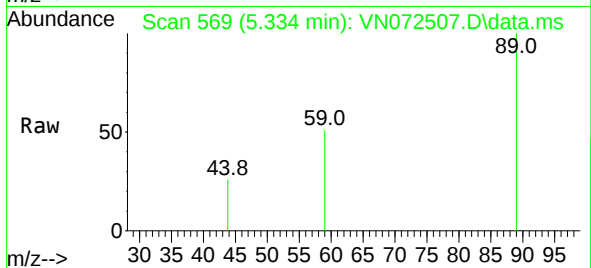
TT-TB-20220512

Tgt Ion: 59 Resp: 641

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#27

1,2-Dichloroethane-d4

Concen: 29.236 ug/l

RT: 8.433 min Scan# 1096

Delta R.T. 0.000 min

Lab File: VN072507.D

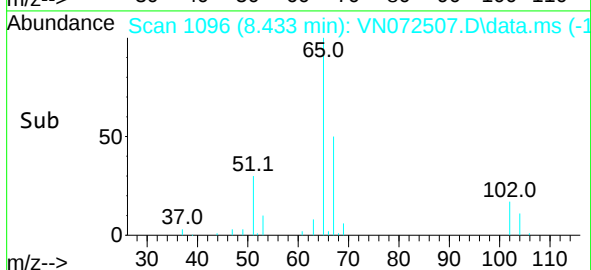
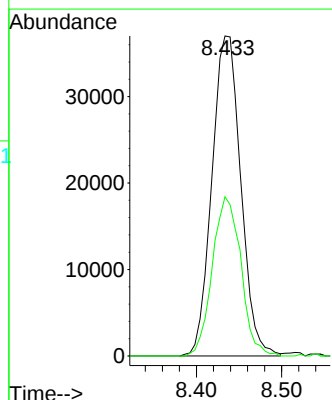
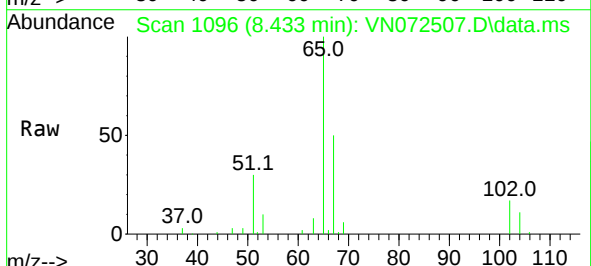
Acq: 16 May 2022 17:44

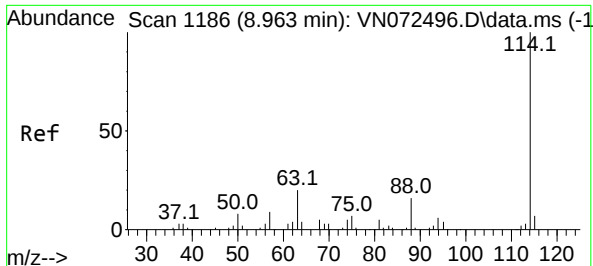
Tgt Ion: 65 Resp: 87176

Ion Ratio Lower Upper

65 100

67 49.0 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.969 min Scan# 1186

Delta R.T. 0.006 min

Lab File: VN072507.D

Acq: 16 May 2022 17:44

Instrument :

MSVOA_N

ClientSampleId :

TT-TB-20220512

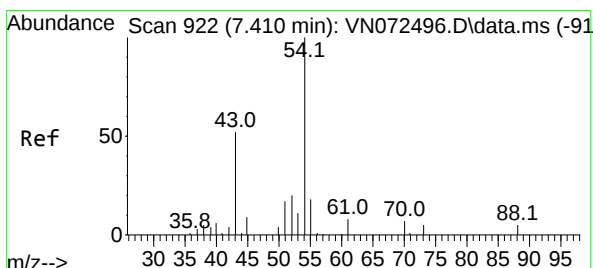
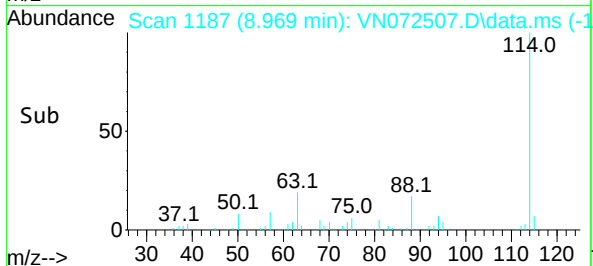
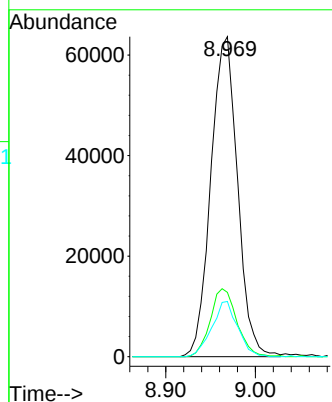
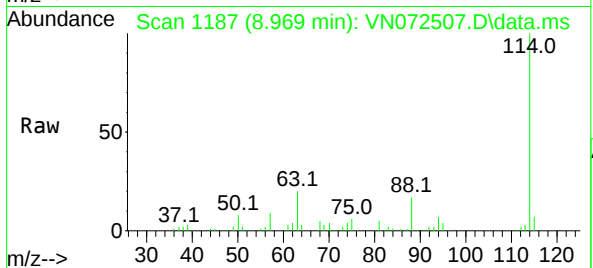
Tgt Ion:114 Resp: 131593

Ion Ratio Lower Upper

114 100

63 21.2 15.8 23.6

88 16.7 11.6 17.4



#43

Ethyl Acetate

Concen: 0.725 ug/l

RT: 7.334 min Scan# 909

Delta R.T. -0.076 min

Lab File: VN072507.D

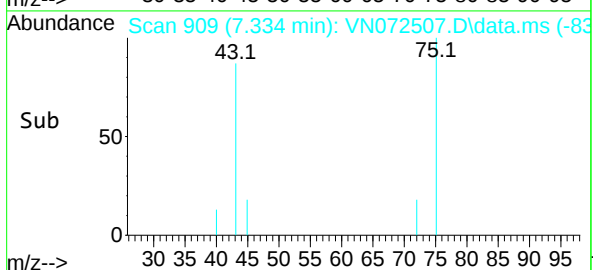
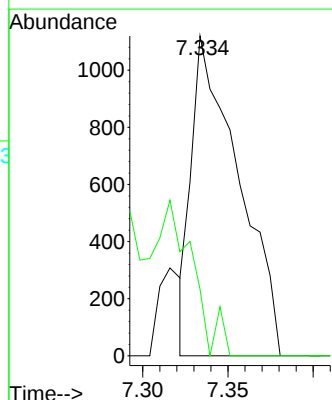
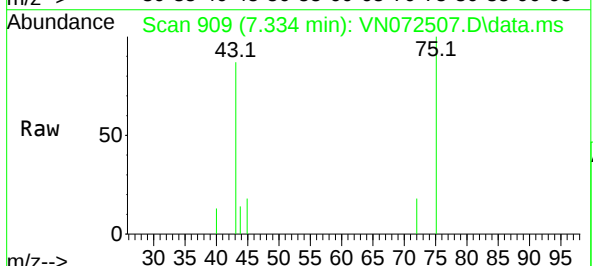
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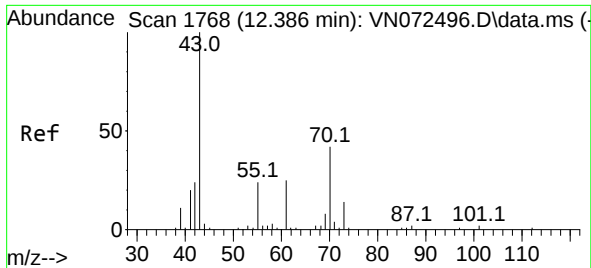
Tgt Ion: 43 Resp: 2148

Ion Ratio Lower Upper

43 100

45 2.8 10.6 16.0#

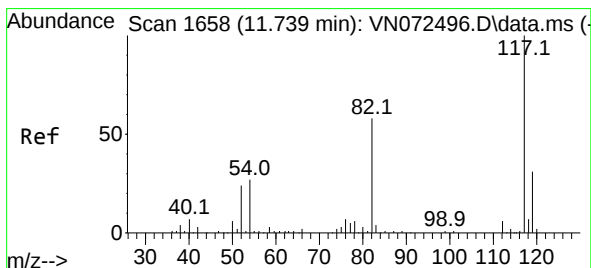
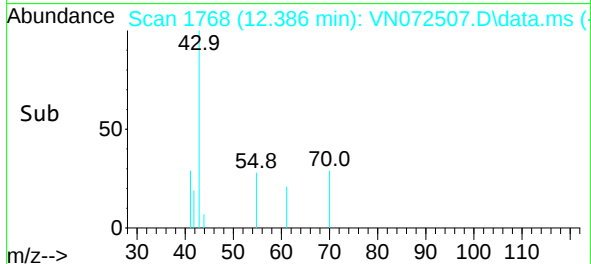
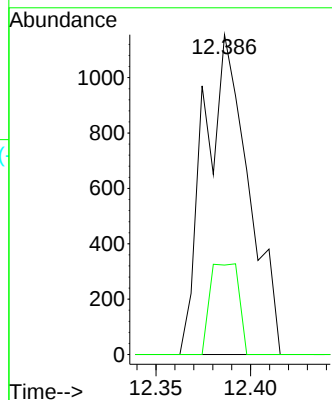
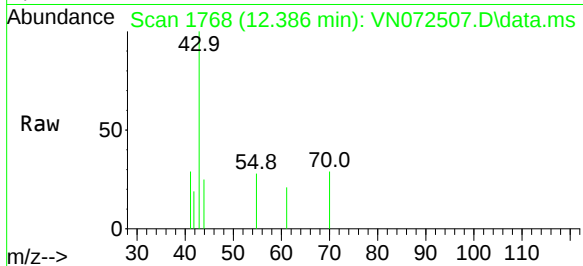




#47
n-amyl acetate
Concen: 0.591 ug/l
RT: 12.386 min Scan# 1768
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

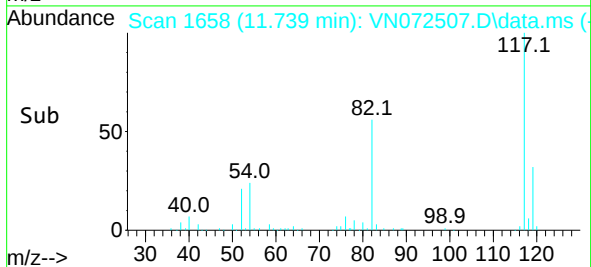
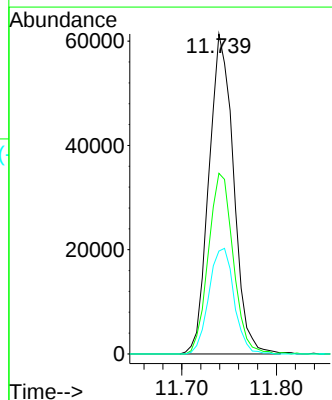
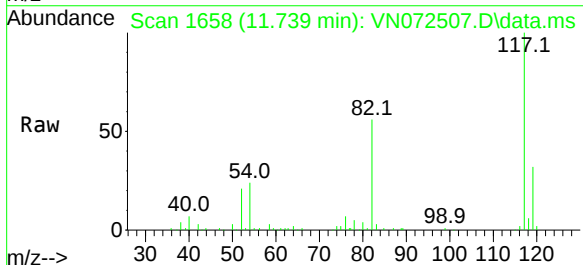
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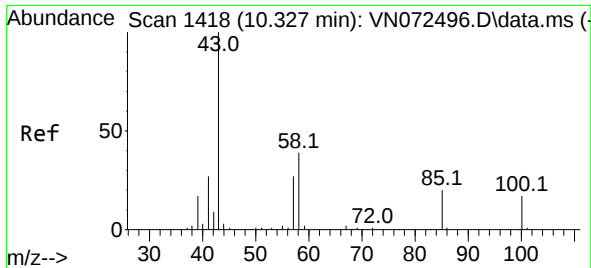
Tgt Ion: 43 Resp: 1877
Ion Ratio Lower Upper
43 100
55 18.4 19.0 28.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Tgt Ion: 117 Resp: 111062
Ion Ratio Lower Upper
117 100
82 56.9 43.6 65.4
119 33.7 25.8 38.6

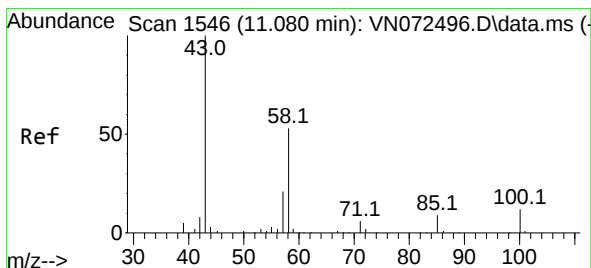
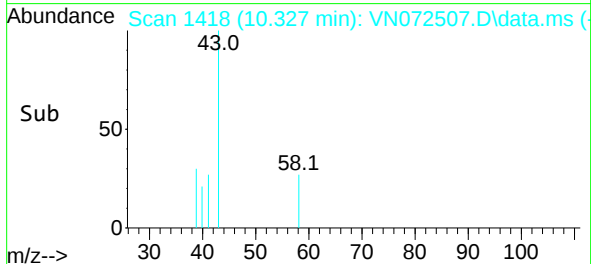
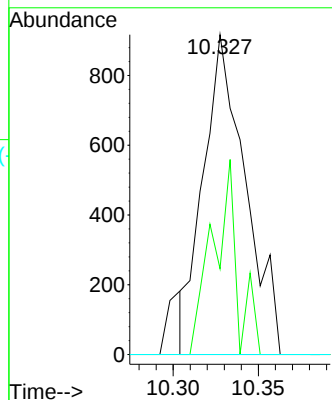
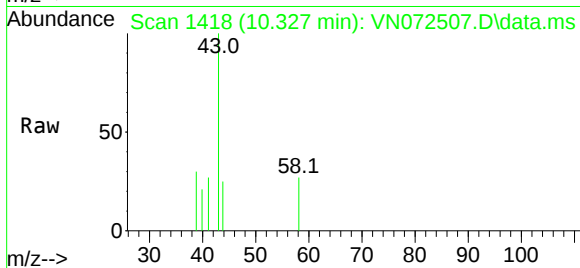




#58
4-Methyl-2-Pentanone
Concen: 0.600 ug/l
RT: 10.327 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

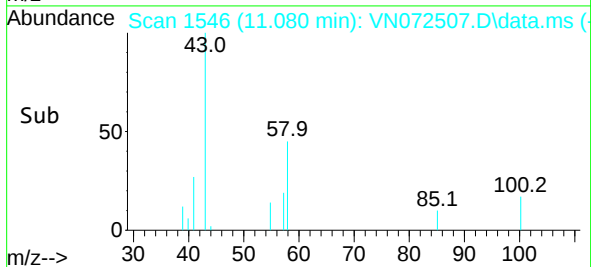
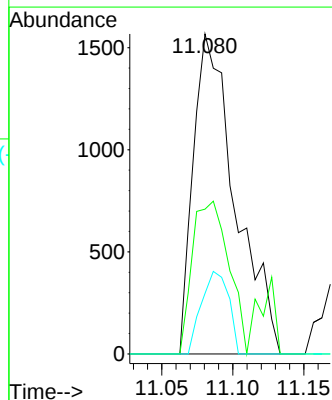
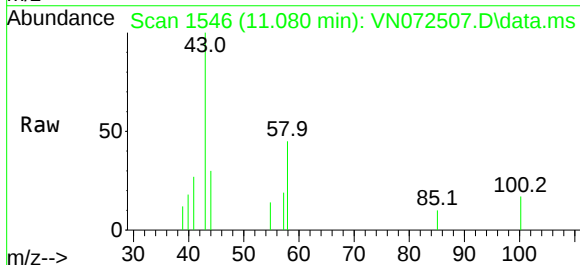
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20220512

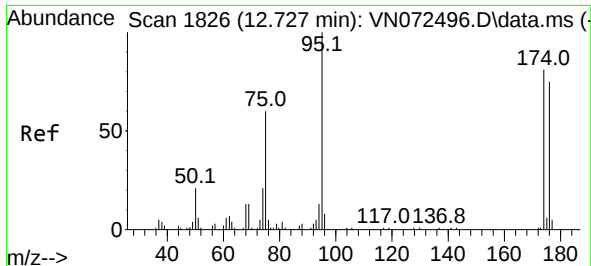
Tgt Ion: 43 Resp: 1570
Ion Ratio Lower Upper
43 100
58 12.5 30.0 45.0#
85 0.0 15.0 22.6#



#59
2-Hexanone
Concen: 1.682 ug/l
RT: 11.080 min Scan# 1546
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Tgt Ion: 43 Resp: 3233
Ion Ratio Lower Upper
43 100
58 41.1 42.2 63.2#
57 16.6 15.0 22.4

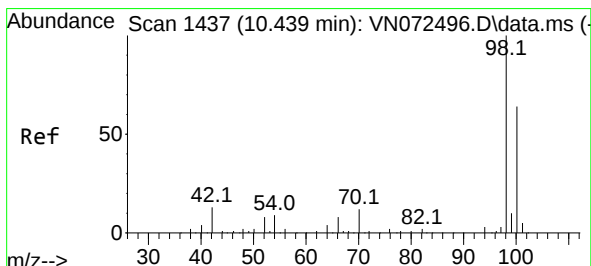
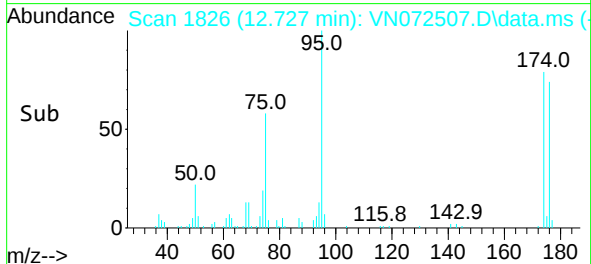
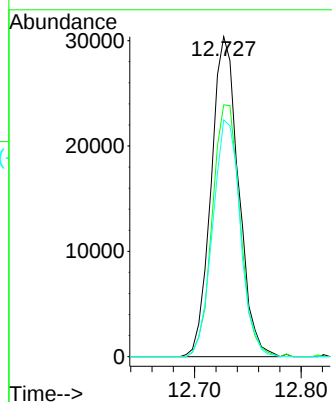
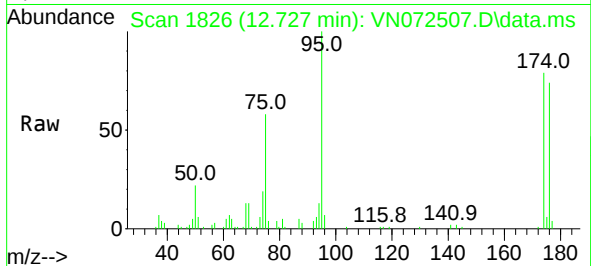




#60
4-Bromofluorobenzene
Concen: 25.045 ug/l
RT: 12.727 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

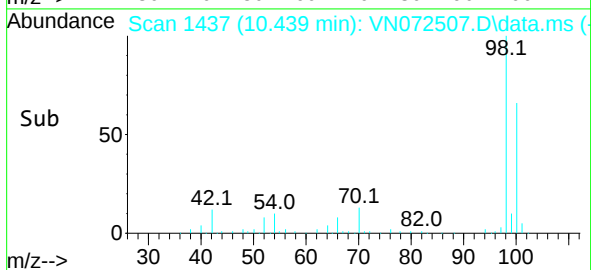
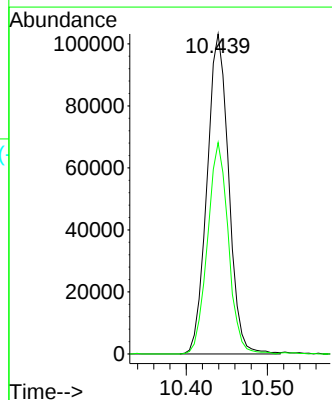
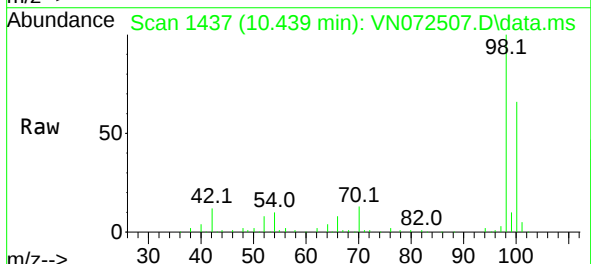
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20220512

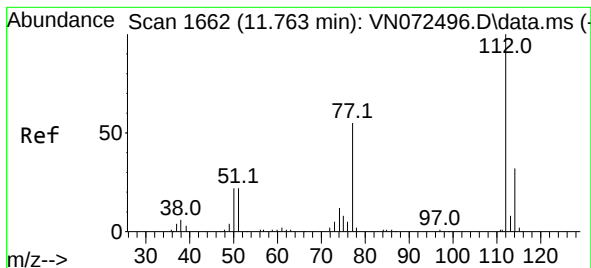
Tgt Ion: 95 Resp: 54311
Ion Ratio Lower Upper
95 100
174 79.5 62.9 94.3
176 74.7 61.0 91.4



#63
Toluene-d8
Concen: 31.555 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Tgt Ion: 98 Resp: 191307
Ion Ratio Lower Upper
98 100
100 63.5 50.6 76.0





#64

Chlorobenzene

Concen: 0.209 ug/l

RT: 11.774 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN072507.D

Acq: 16 May 2022 17:44

Instrument :

MSVOA_N

ClientSampleId :

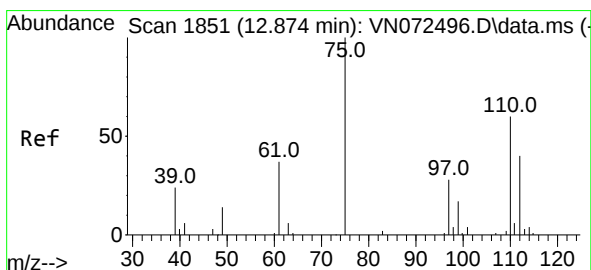
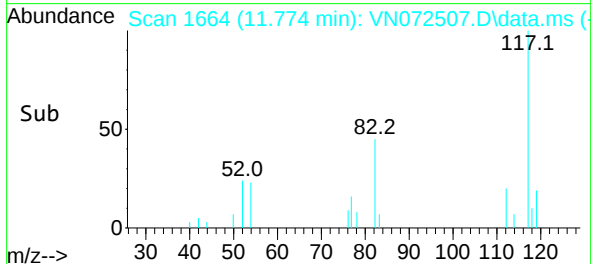
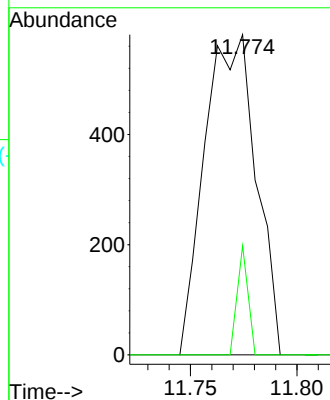
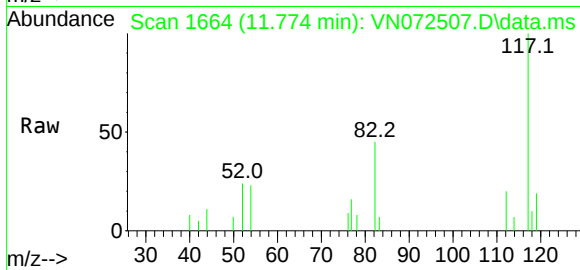
TT-TB-20220512

Tgt Ion:112 Resp: 977

Ion Ratio Lower Upper

112 100

114 34.1 25.8 38.6



#72

1,2,3-Trichloropropane

Concen: 0.236 ug/l

RT: 12.880 min Scan# 1852

Delta R.T. 0.006 min

Lab File: VN072507.D

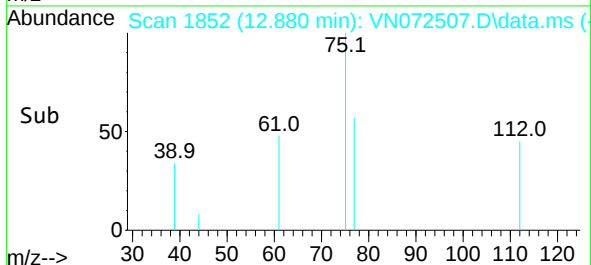
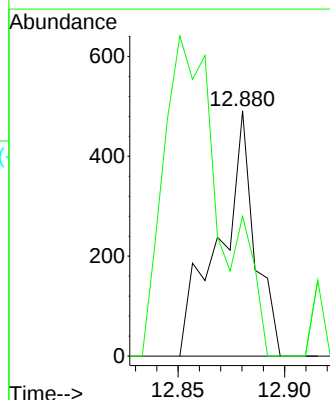
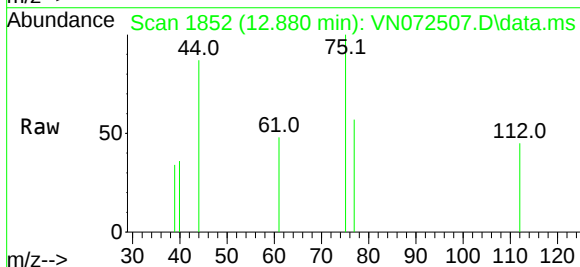
Acq: 16 May 2022 17:44

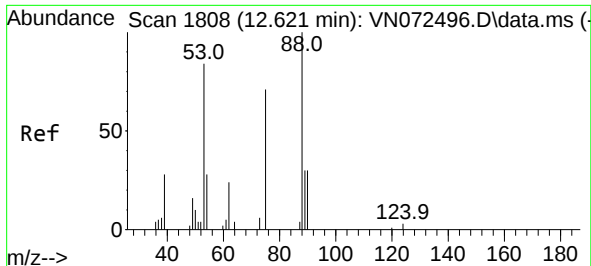
Tgt Ion: 75 Resp: 567

Ion Ratio Lower Upper

75 100

77 28.6 0.0 378.0

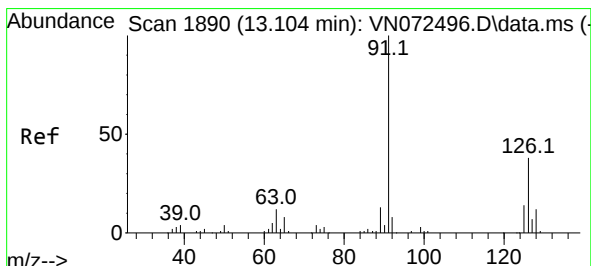
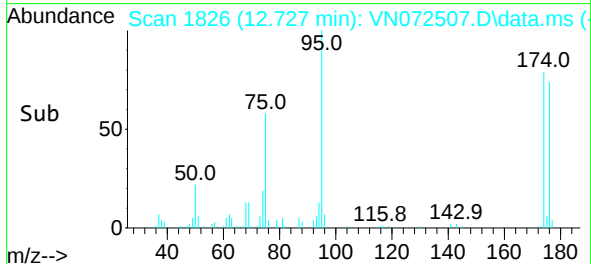
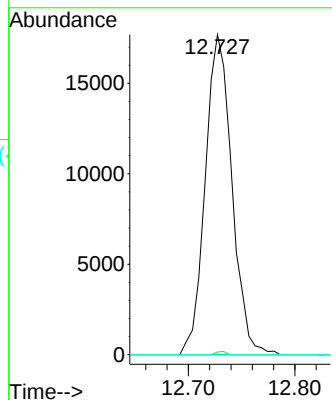
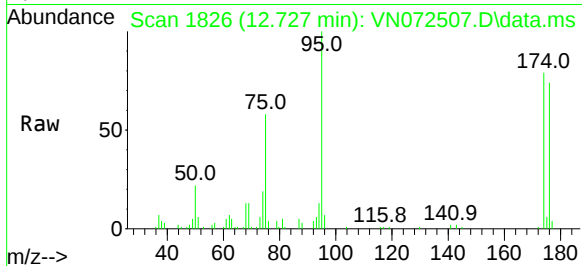




#77
t-1,4-Dichloro-2-butene
Concen: 38.776 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

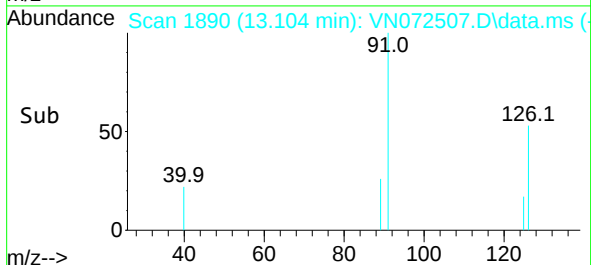
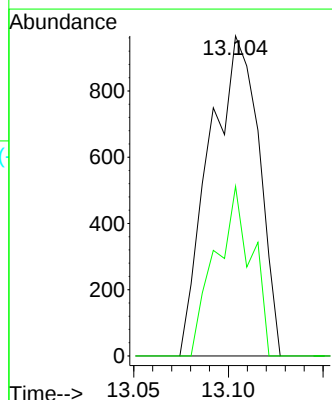
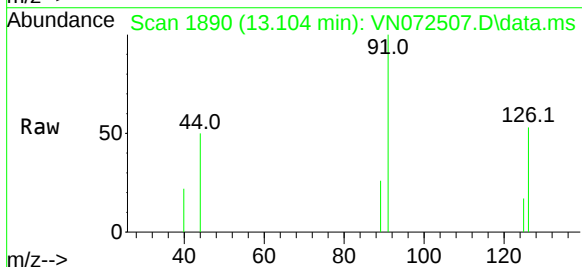
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20220512

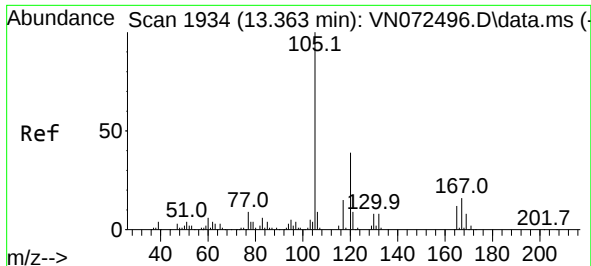
Tgt Ion: 75 Resp: 30797
Ion Ratio Lower Upper
75 100
53 0.9 51.8 155.5#
89 0.0 22.9 68.7#



#78
4-Chlorotoluene
Concen: 0.315 ug/l
RT: 13.104 min Scan# 1890
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Tgt Ion: 91 Resp: 1755
Ion Ratio Lower Upper
91 100
126 38.7 0.0 70.6

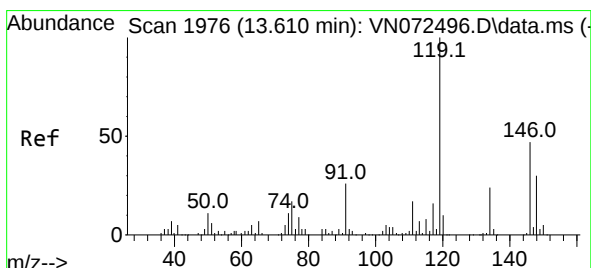
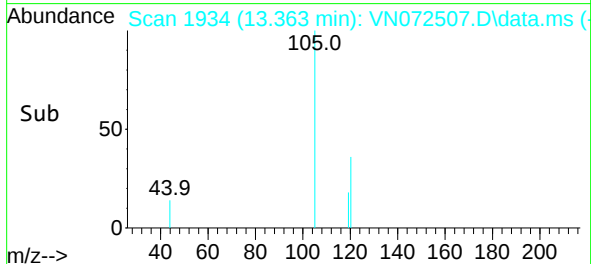
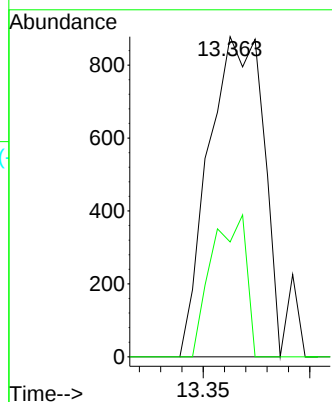
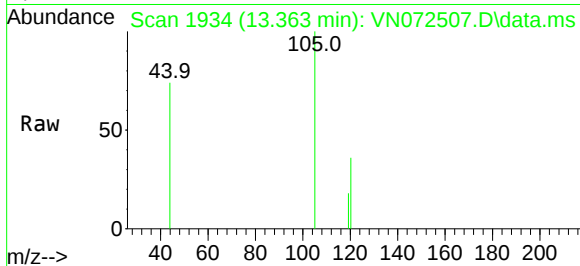




#80
1,2,4-Trimethylbenzene
Concen: 0.227 ug/l
RT: 13.363 min Scan# 1934
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

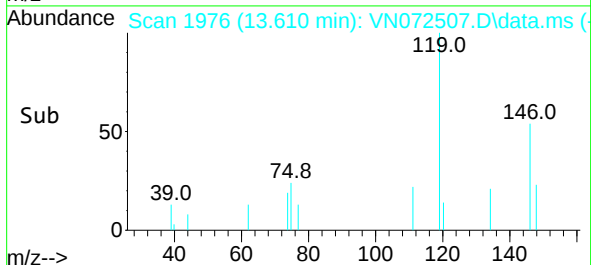
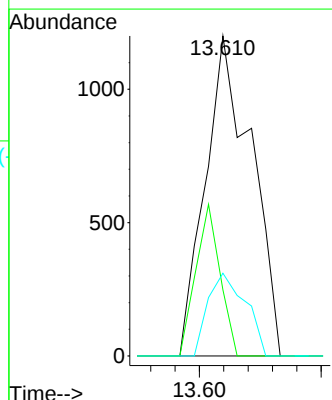
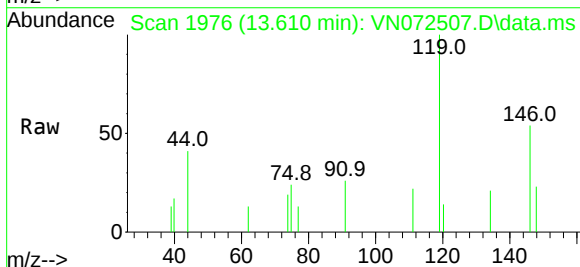
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20220512

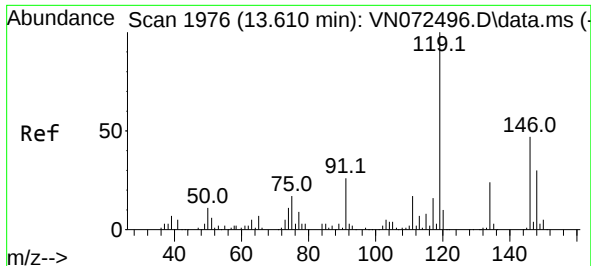
Tgt Ion:105 Resp: 1567
Ion Ratio Lower Upper
105 100
120 28.2 0.0 0.2#



#82
p-Isopropyltoluene
Concen: 0.228 ug/l
RT: 13.610 min Scan# 1976
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Tgt Ion:119 Resp: 1578
Ion Ratio Lower Upper
119 100
134 24.8 0.0 51.8
91 21.1 0.0 50.4

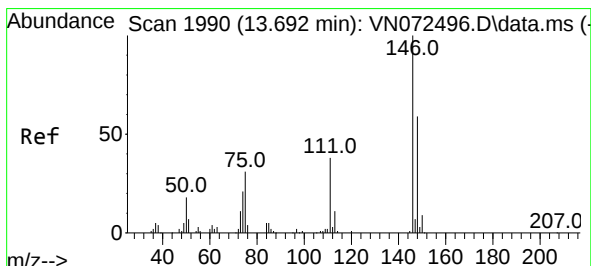
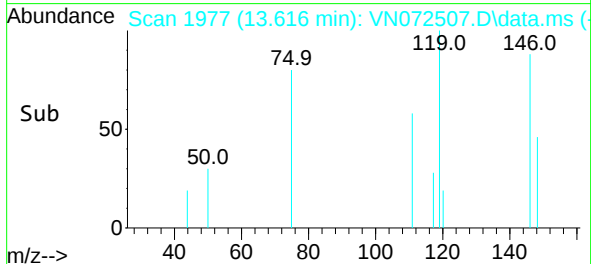
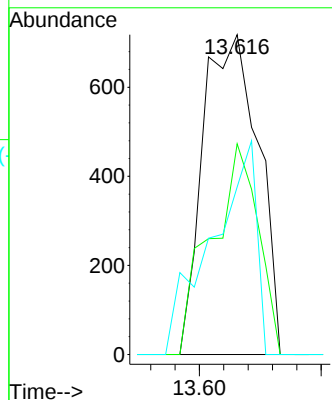
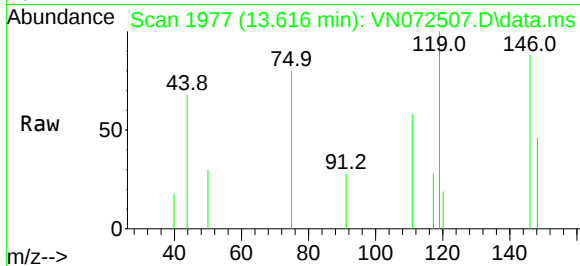




#83
1,3-Dichlorobenzene
Concen: 0.328 ug/l
RT: 13.616 min Scan# 1976
Delta R.T. 0.006 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

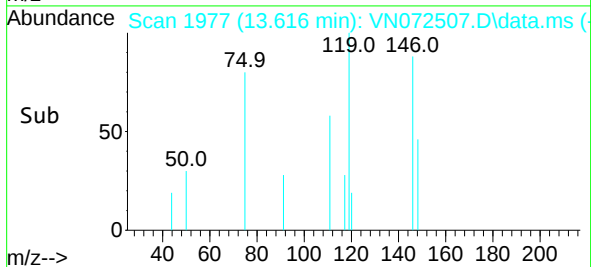
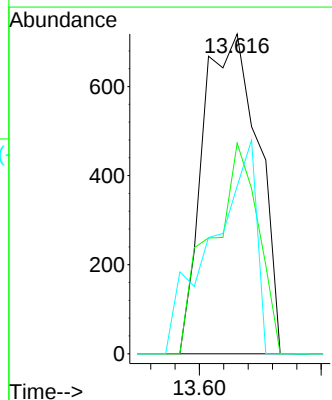
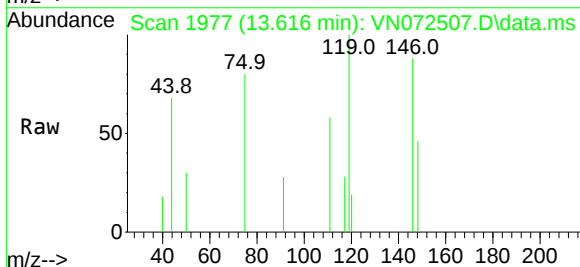
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20220512

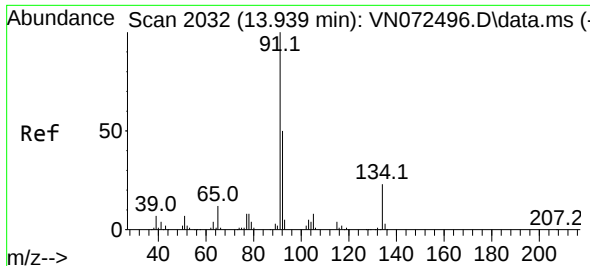
Tgt Ion:146 Resp: 1131
Ion Ratio Lower Upper
146 100
111 40.7 20.8 62.2
148 53.8 31.4 94.3



#84
1,4-Dichlorobenzene
Concen: 0.337 ug/l
RT: 13.616 min Scan# 1977
Delta R.T. -0.076 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Tgt Ion:146 Resp: 1131
Ion Ratio Lower Upper
146 100
111 40.7 19.5 58.5
148 53.8 31.1 93.5

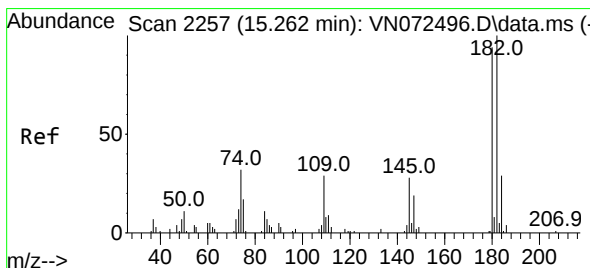
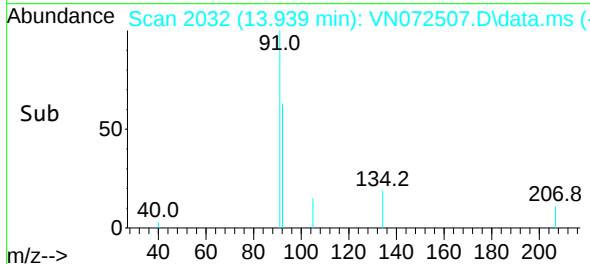
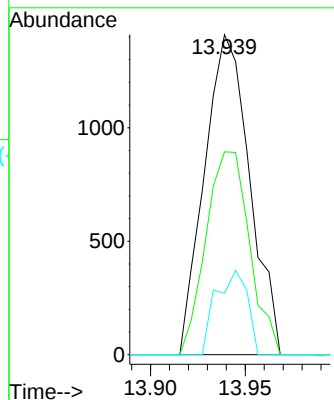
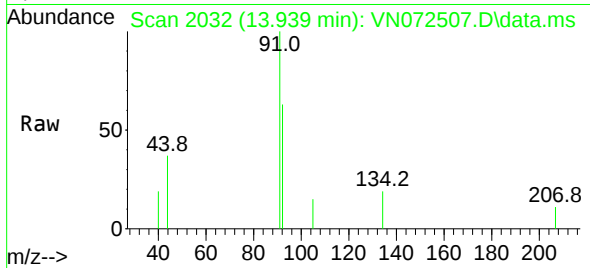




#85
n-Butylbenzene
Concen: 0.457 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

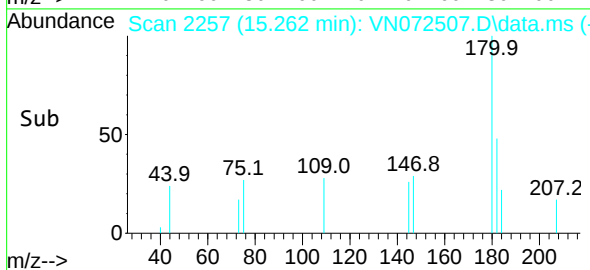
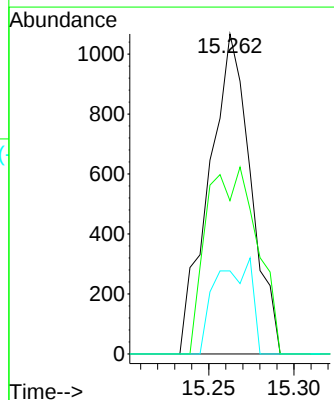
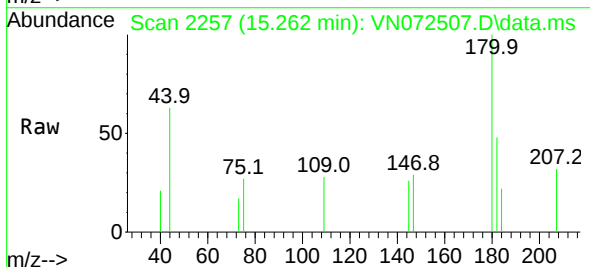
Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20220512

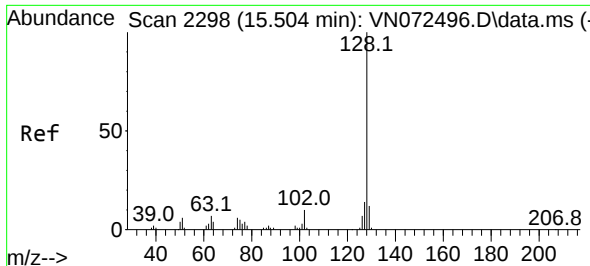
Tgt Ion: 91	Resp:	2343
Ion Ratio	Lower	Upper
91	100	
92	61.1	0.0 100.6
134	18.3	0.0 50.2



#89
1,2,4-Trichlorobenzene
Concen: 1.189 ug/l
RT: 15.262 min Scan# 2257
Delta R.T. 0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Tgt Ion: 180	Resp:	1815
Ion Ratio	Lower	Upper
180	100	
182	38.1	77.7 116.5#
145	19.3	26.6 39.8#

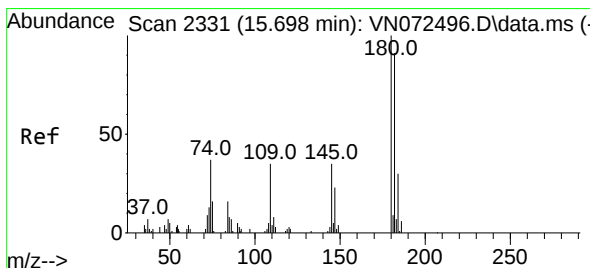
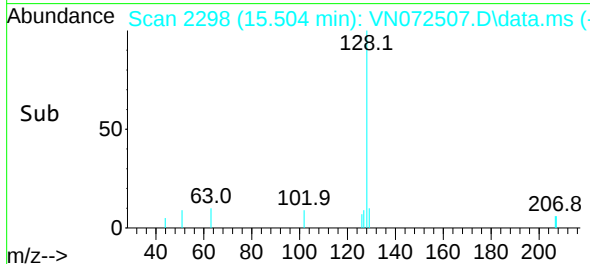
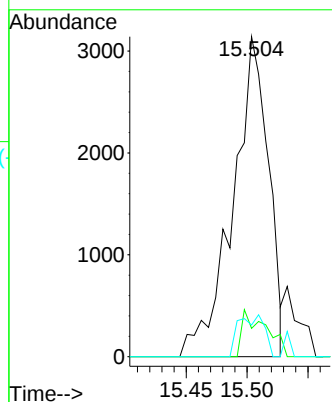
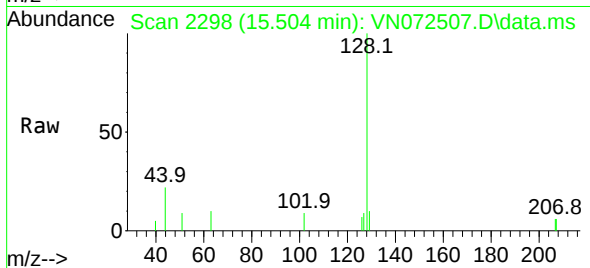




#91
Naphthalene
Concen: 8.751 ug/l
RT: 15.504 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Instrument :
MSVOA_N
ClientSampleId :
TT-TB-20220512

Tgt Ion:128 Resp: 6406
Ion Ratio Lower Upper
128 100
127 5.9 10.7 16.1#
129 3.8 9.0 13.6#



#92
1,2,3-Trichlorobenzene
Concen: 0.784 ug/l
RT: 15.692 min Scan# 2330
Delta R.T. -0.006 min
Lab File: VN072507.D
Acq: 16 May 2022 17:44

Tgt Ion:180 Resp: 1217
Ion Ratio Lower Upper
180 100
182 172.8 0.0 190.0
145 57.5 0.0 67.8

