

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122021\
 Data File : VN070244.D
 Acq On : 20 Dec 2021 16:44
 Operator : JC/MD
 Sample : M5044-16
 Misc : 6.31g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 04:03:49 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

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

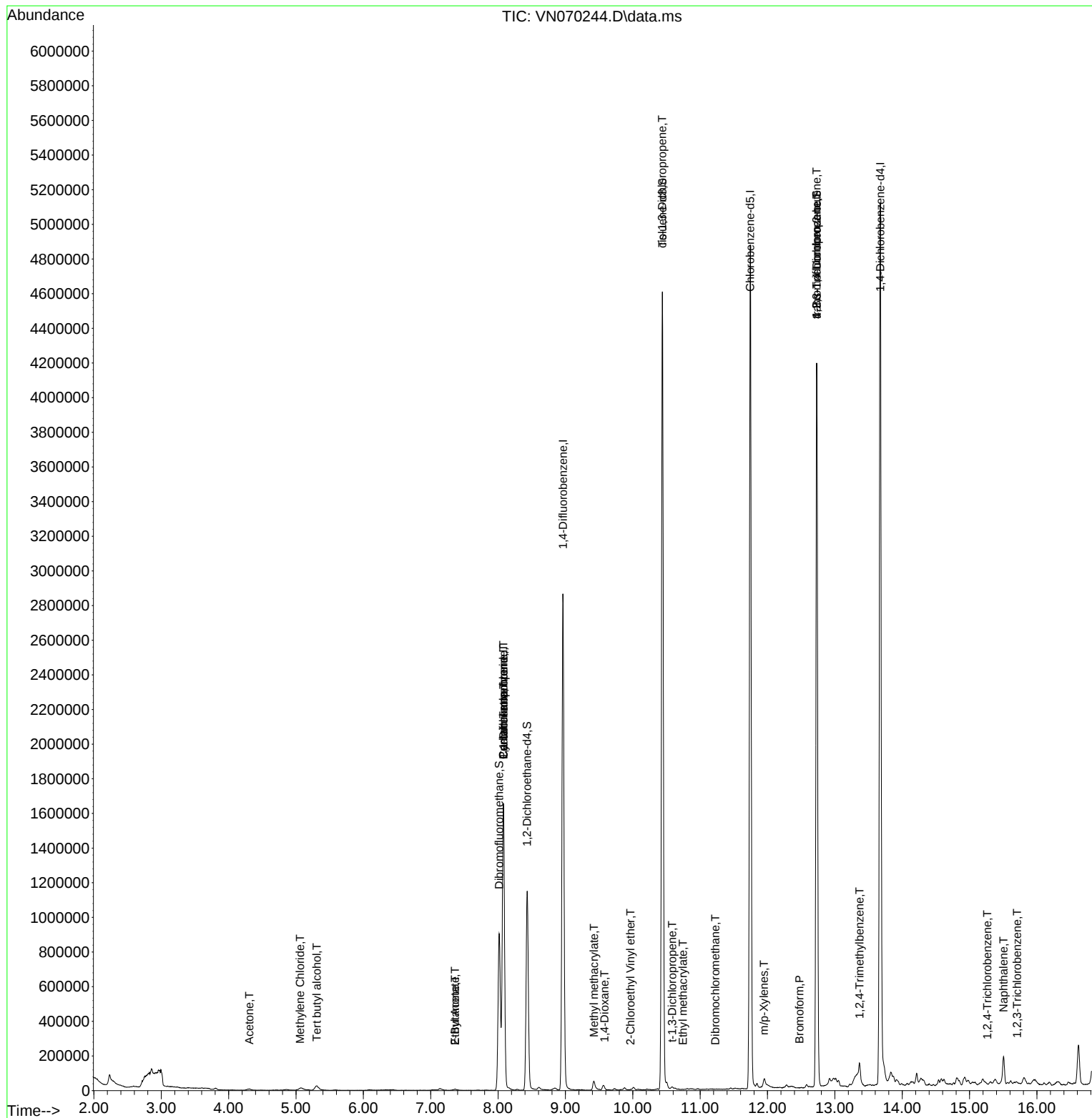
Internal Standards						
1) Pentafluorobenzene	8.080	168	1277549	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	2432757	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2697551	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1348564	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.432	65	1004714	50.935	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 101.880%	
35) Dibromofluoromethane	8.016	113	673858	44.221	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 88.440%	
50) Toluene-d8	10.440	98	3185917	52.069	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 104.140%	
62) 4-Bromofluorobenzene	12.731	95	1440715	64.995	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 129.980%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.307	59	29473	7.905	ug/l #	72
16) Acetone	4.307	43	7836	0.660	ug/l #	88
20) Methylene Chloride	5.060	84	3409	0.216	ug/l #	91
25) 2-Butanone	7.359	43	8999	0.558	ug/l #	87
31) Cyclohexane	8.078	56	32315	1.177	ug/l #	30
36) 1,1-Dichloropropene	8.078	75	106711	4.608	ug/l #	48
37) Ethyl Acetate	7.359	43	8999	0.261	ug/l #	68
38) Carbon Tetrachloride	8.080	117	128561	5.661	ug/l #	16
48) Methyl methacrylate	9.424	41	12576	0.528	ug/l #	38
49) 1,4-Dioxane	9.580	88	216	0.506	ug/l #	1
53) t-1,3-Dichloropropene	10.585	75	4956	2.959	ug/l	100
54) cis-1,3-Dichloropropene	10.438	75	930	2.029	ug/l #	1
56) Ethyl methacrylate	10.743	69	175	2.284	ug/l #	26
58) 2-Chloroethyl Vinyl ether	9.966	63	24	18.391	ug/l #	45
60) Dibromochloromethane	11.226	129	24	2.377	ug/l #	11
68) m/p-Xylenes	11.948	106	12108	0.335	ug/l	86
71) Bromoform	12.473	173	119	2.738	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	792854	20.501	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	792854	65.709	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.366	105	48141	0.523	ug/l	99
93) 1,2,4-Trichlorobenzene	15.265	180	88	2.882	ug/l #	1
95) Naphthalene	15.504	128	151162	6.096	ug/l	99
96) 1,2,3-Trichlorobenzene	15.705	180	833	2.472	ug/l #	45

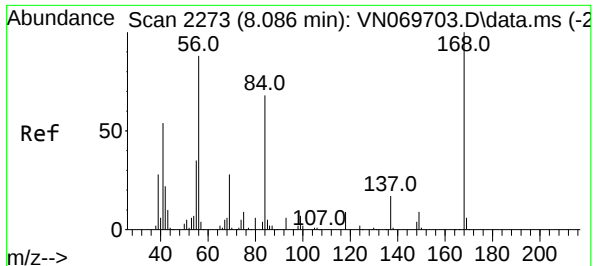
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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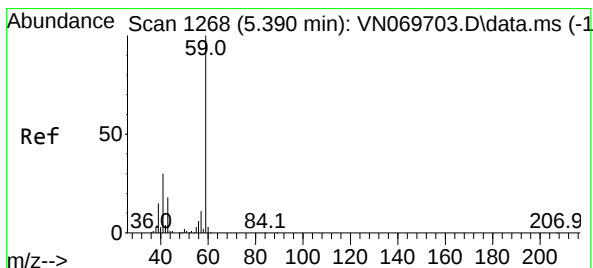
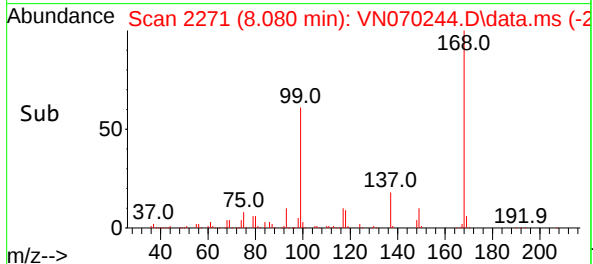
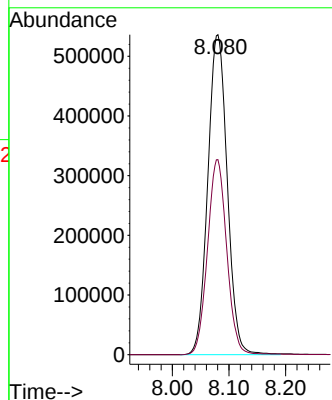
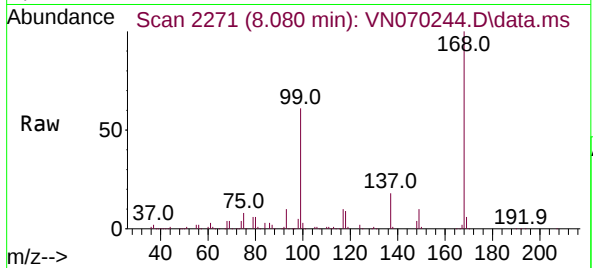




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.080 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

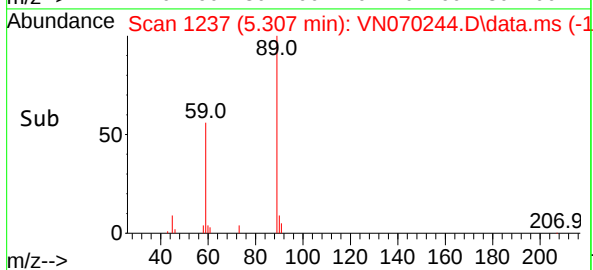
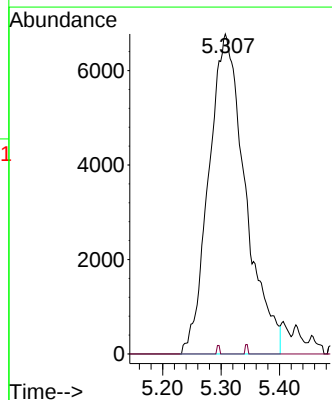
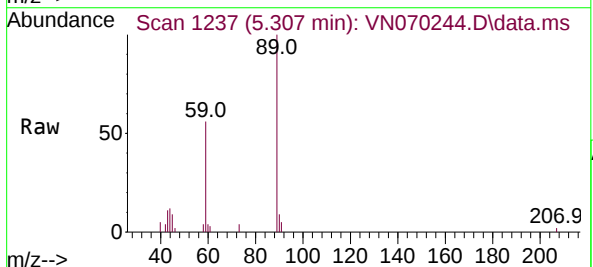
Instrument :
MSVOA_N
ClientSampleId :

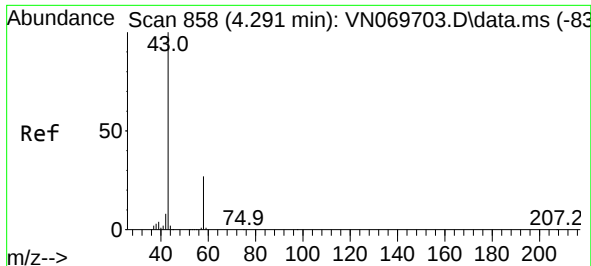
Tgt Ion:168 Resp: 1277549
Ion Ratio Lower Upper
168 100
99 61.0 41.3 61.9



#11
Tert butyl alcohol
Concen: 7.905 ug/l
RT: 5.307 min Scan# 1237
Delta R.T. -0.083 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

Tgt Ion: 59 Resp: 29473
Ion Ratio Lower Upper
59 100
57 0.2 8.7 13.1#

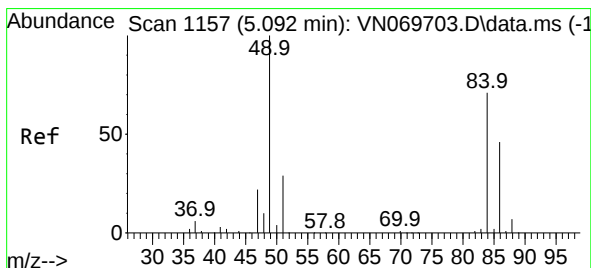
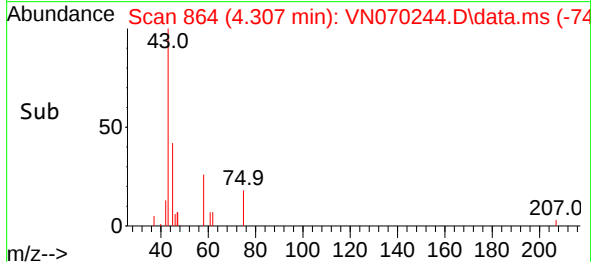
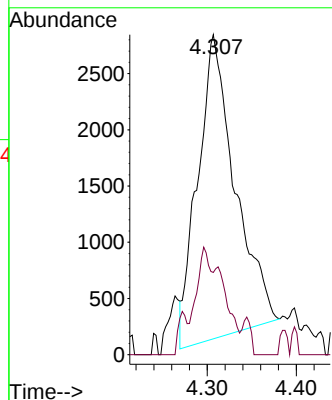
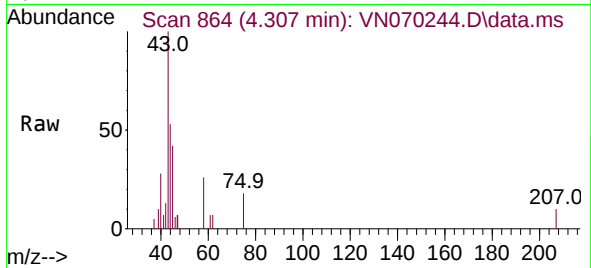




#16
Acetone
Concen: 0.660 ug/l
RT: 4.307 min Scan# 80
Delta R.T. 0.016 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

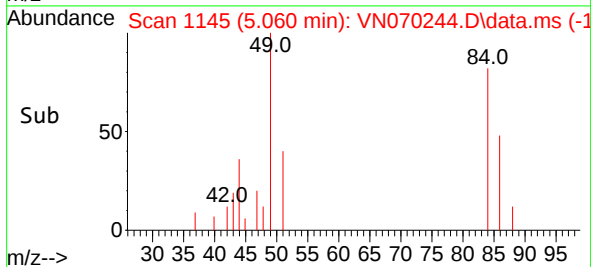
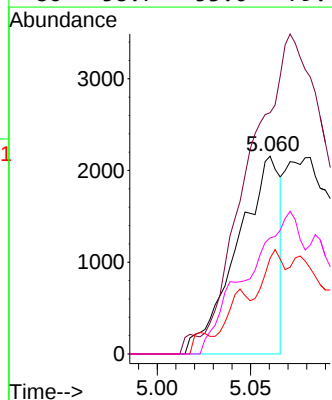
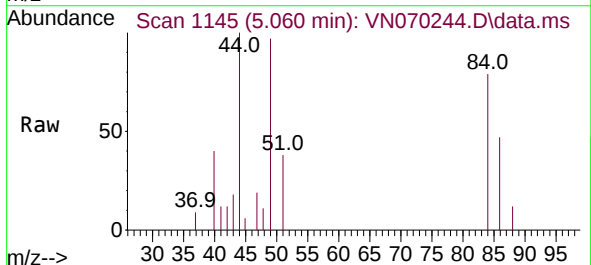
Instrument :
MSVOA_N
ClientSampleId :

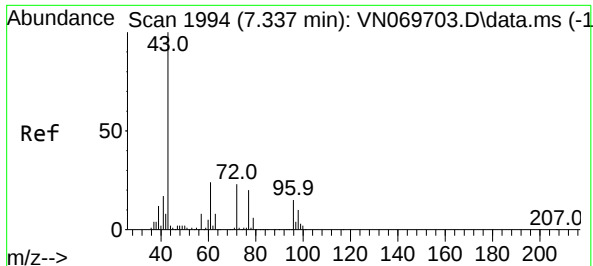
Tgt Ion: 43 Resp: 7836
Ion Ratio Lower Upper
43 100
58 22.3 23.1 34.7#



#20
Methylene Chloride
Concen: 0.216 ug/l
RT: 5.060 min Scan# 1145
Delta R.T. -0.032 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

Tgt Ion: 84 Resp: 3409
Ion Ratio Lower Upper
84 100
49 122.0 93.5 140.3
51 48.4 29.4 44.2#
86 58.7 53.0 79.4





#25

2-Butanone

Concen: 0.558 ug/l

RT: 7.359 min Scan# 20

Delta R.T. 0.022 min

Lab File: VN070244.D

Acq: 20 Dec 2021 16:44

Instrument :

MSVOA_N

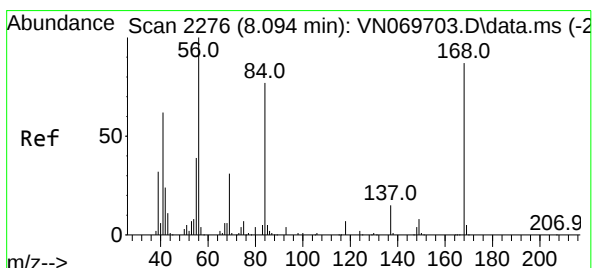
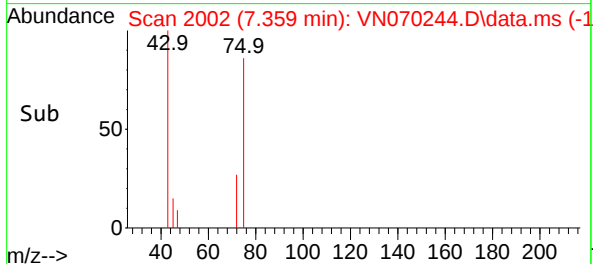
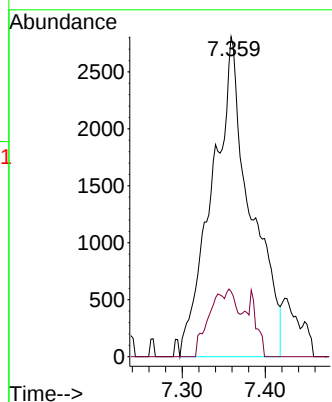
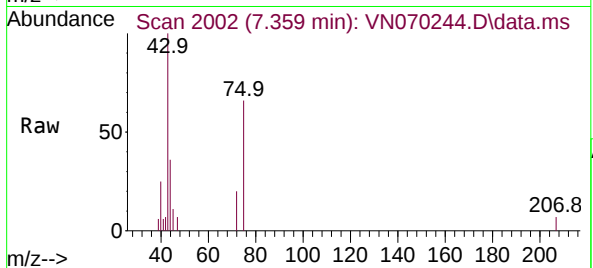
ClientSampleId :

Tgt Ion: 43 Resp: 8999

Ion Ratio Lower Upper

43 100

72 20.4 21.7 32.5#



#31

Cyclohexane

Concen: 1.177 ug/l

RT: 8.078 min Scan# 2270

Delta R.T. -0.016 min

Lab File: VN070244.D

Acq: 20 Dec 2021 16:44

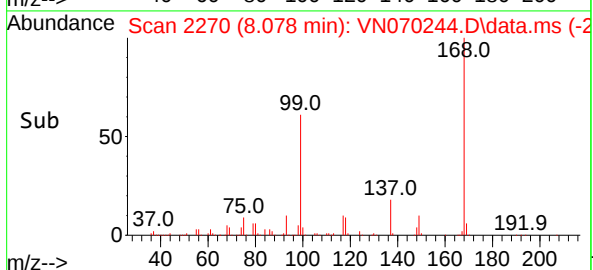
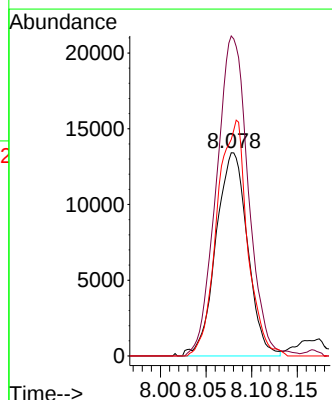
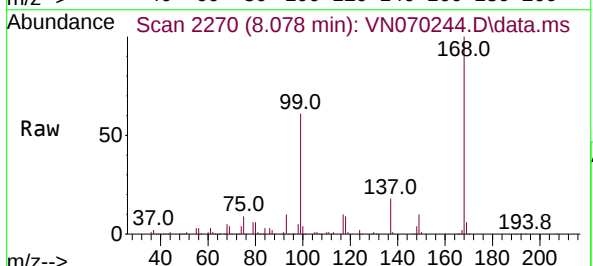
Tgt Ion: 56 Resp: 32315

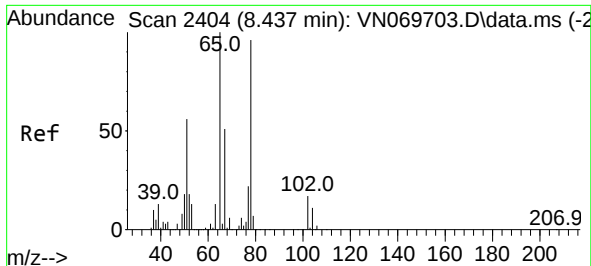
Ion Ratio Lower Upper

56 100

69 157.5 27.1 40.7#

84 106.5 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 50.935 ug/l

RT: 8.432 min Scan# 24

Delta R.T. -0.005 min

Lab File: VN070244.D

Acq: 20 Dec 2021 16:44

Instrument :

MSVOA_N

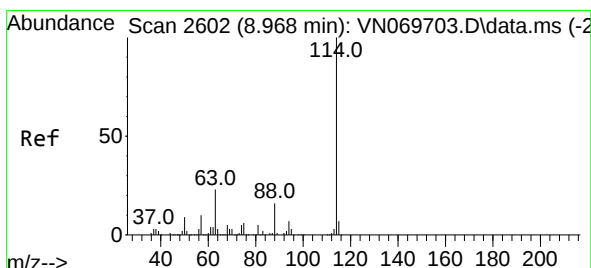
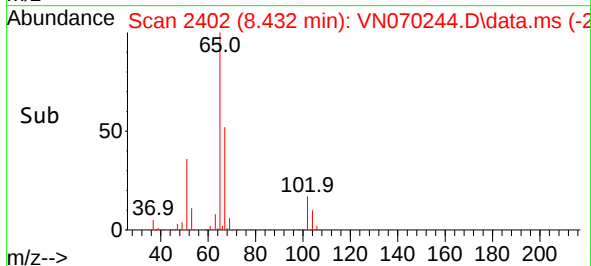
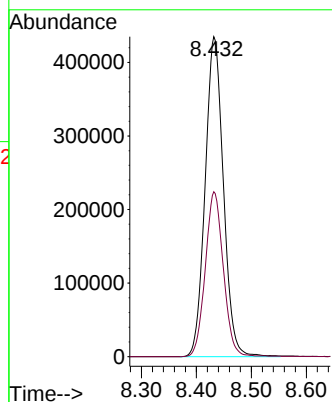
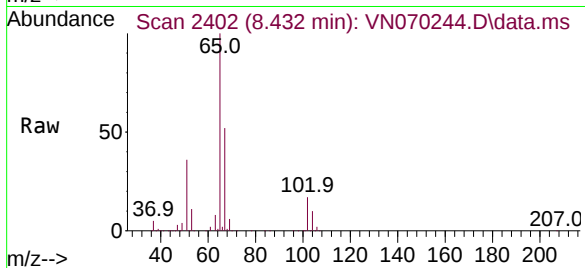
ClientSampleId :

Tgt Ion: 65 Resp: 1004714

Ion Ratio Lower Upper

65 100

67 50.8 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 2600

Delta R.T. -0.005 min

Lab File: VN070244.D

Acq: 20 Dec 2021 16:44

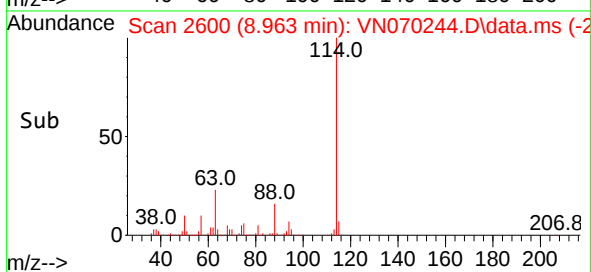
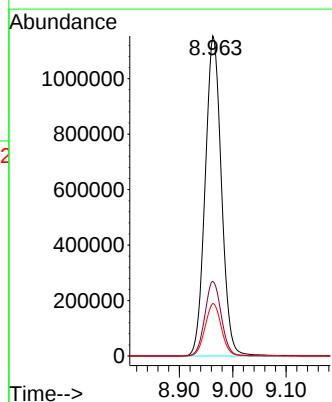
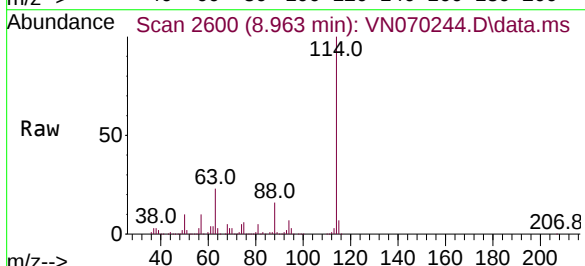
Tgt Ion: 114 Resp: 2432757

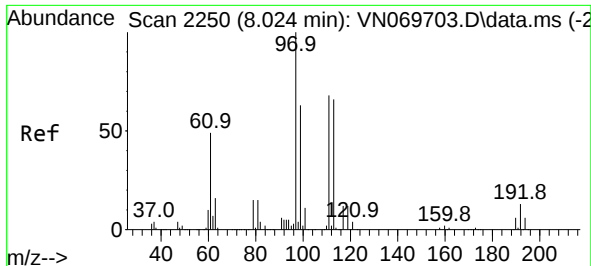
Ion Ratio Lower Upper

114 100

63 23.3 0.0 37.8

88 16.4 0.0 27.4

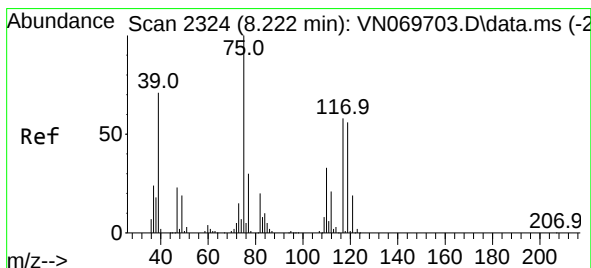
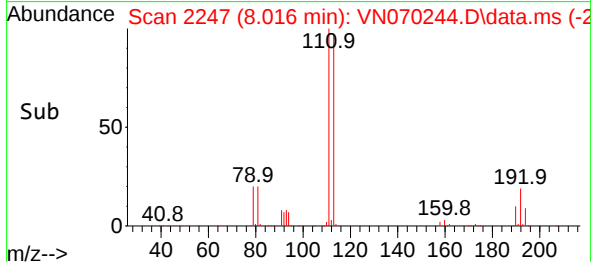
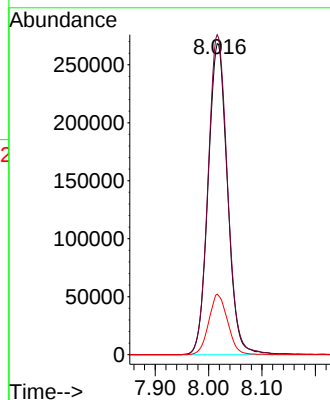
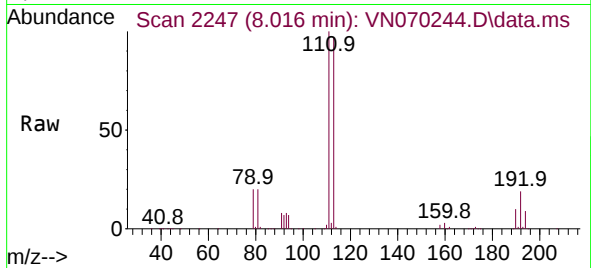




#35
 Dibromofluoromethane
 Concen: 44.221 ug/l
 RT: 8.016 min Scan# 21
 Delta R.T. -0.008 min
 Lab File: VN070244.D
 Acq: 20 Dec 2021 16:44

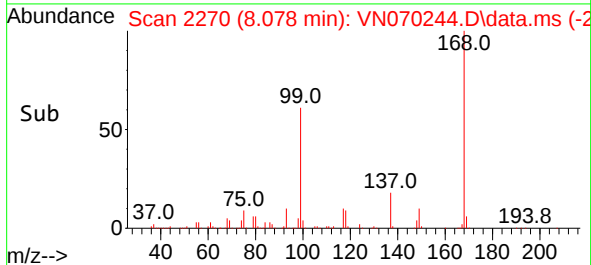
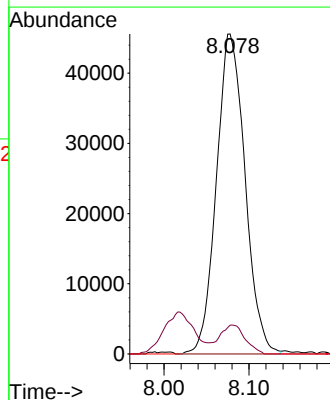
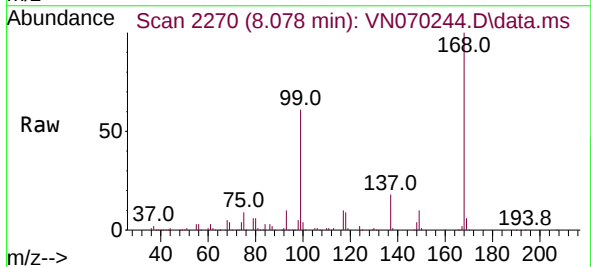
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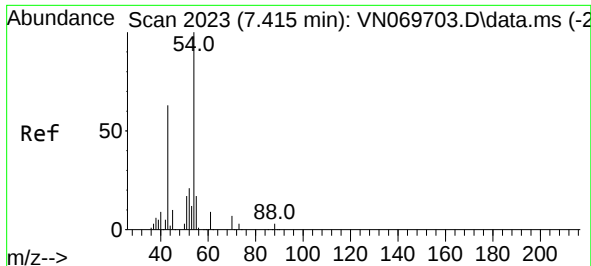
Tgt Ion:113 Resp: 673858
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.2 123.2
 192 18.9 16.9 25.3



#36
 1,1-Dichloropropene
 Concen: 4.608 ug/l
 RT: 8.078 min Scan# 2270
 Delta R.T. -0.145 min
 Lab File: VN070244.D
 Acq: 20 Dec 2021 16:44

Tgt Ion: 75 Resp: 106711
 Ion Ratio Lower Upper
 75 100
 110 7.7 18.4 55.2#
 77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 0.261 ug/l

RT: 7.359 min Scan# 20

Delta R.T. -0.056 min

Lab File: VN070244.D

Acq: 20 Dec 2021 16:44

Instrument :

MSVOA_N

ClientSampleId :

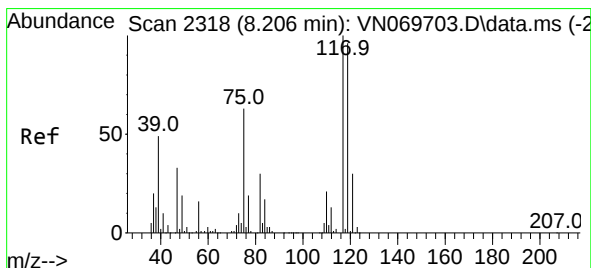
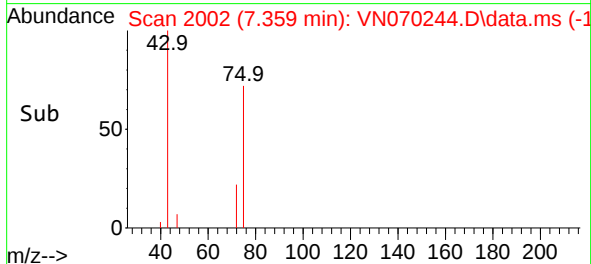
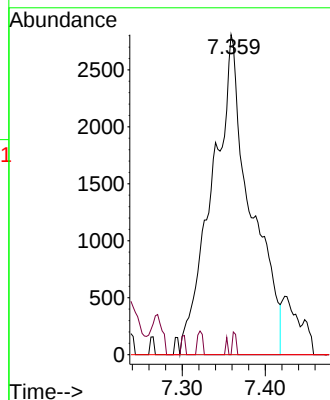
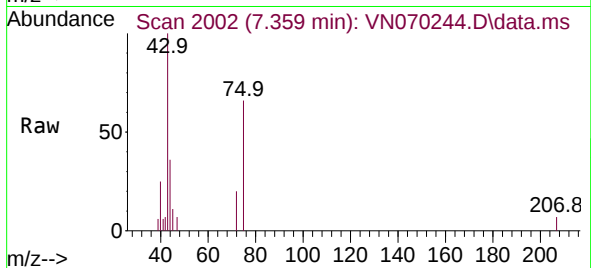
Tgt Ion: 43 Resp: 8999

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

70 0.0 7.9 11.9#



#38

Carbon Tetrachloride

Concen: 5.661 ug/l

RT: 8.080 min Scan# 2271

Delta R.T. -0.126 min

Lab File: VN070244.D

Acq: 20 Dec 2021 16:44

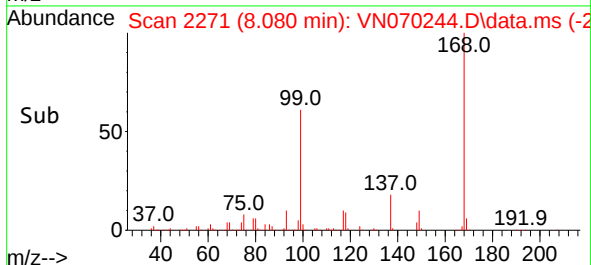
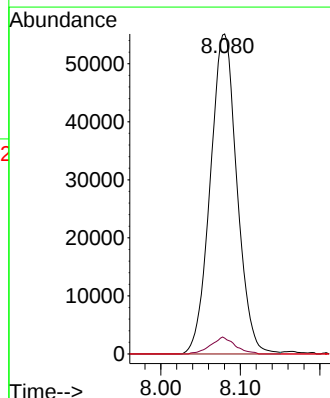
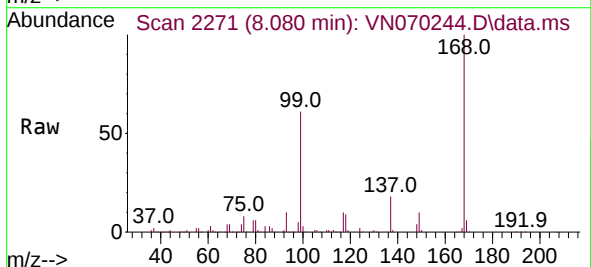
Tgt Ion: 117 Resp: 128561

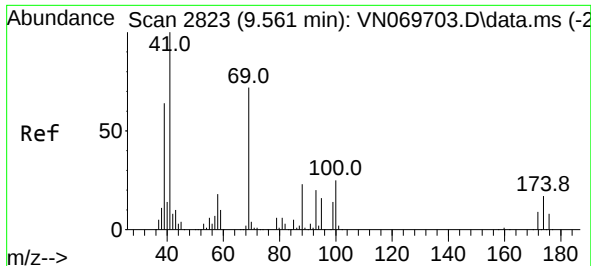
Ion Ratio Lower Upper

117 100

119 4.9 76.1 114.1#

121 0.0 24.2 36.2#

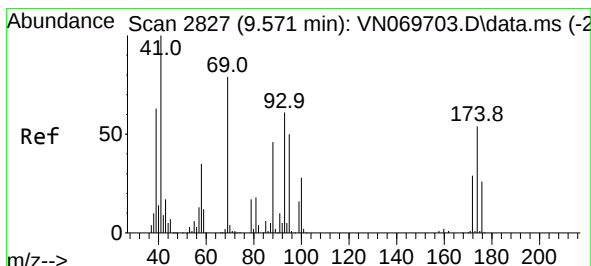
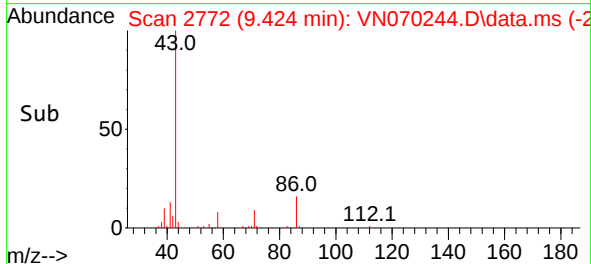
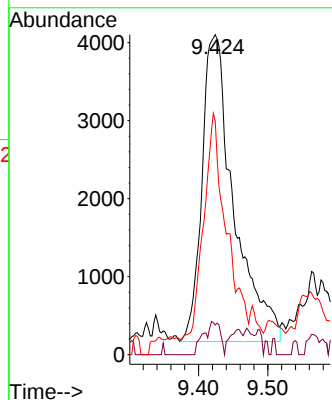
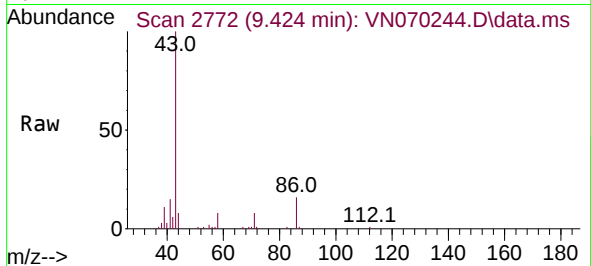




#48
Methyl methacrylate
Concen: 0.528 ug/l
RT: 9.424 min Scan# 21
Delta R.T. -0.137 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

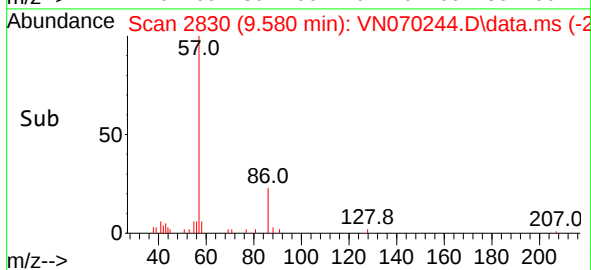
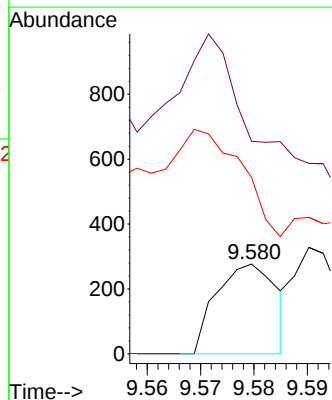
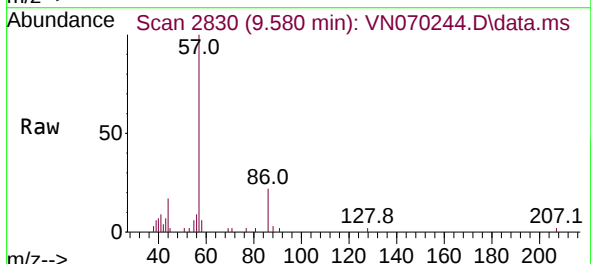
Instrument :
MSVOA_N
ClientSampleId :

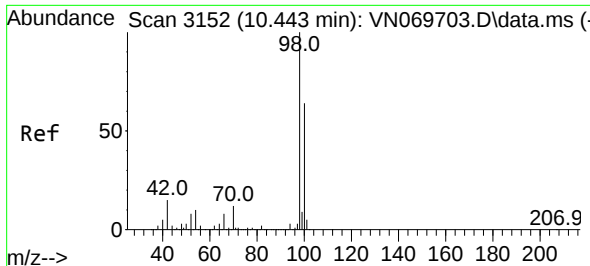
Tgt Ion: 41 Resp: 12576
Ion Ratio Lower Upper
41 100
69 3.5 72.4 108.6#
39 51.4 58.4 87.6#



#49
1,4-Dioxane
Concen: 0.506 ug/l
RT: 9.580 min Scan# 2830
Delta R.T. 0.008 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

Tgt Ion: 88 Resp: 216
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 663.0 50.6 75.8#

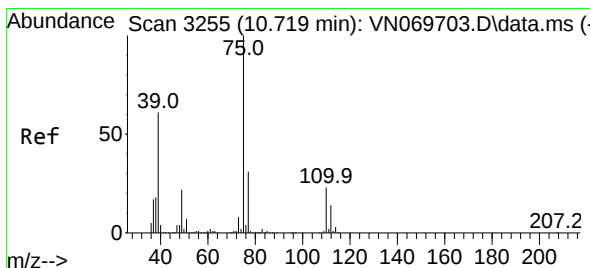
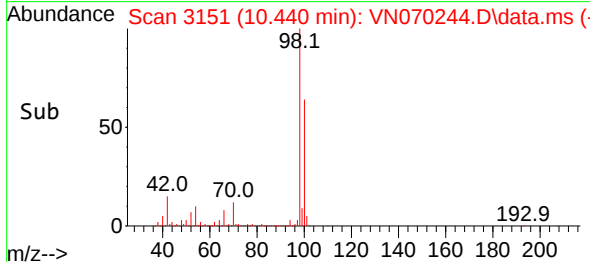
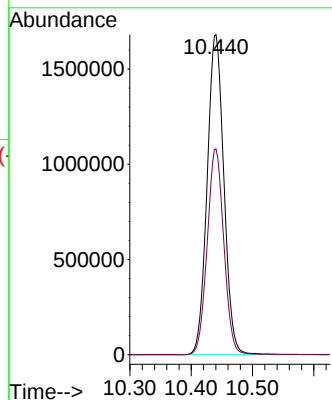
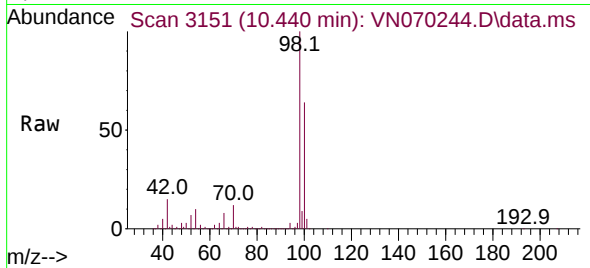




#50
Toluene-d8
Concen: 52.069 ug/l
RT: 10.440 min Scan# 3152
Delta R.T. -0.003 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

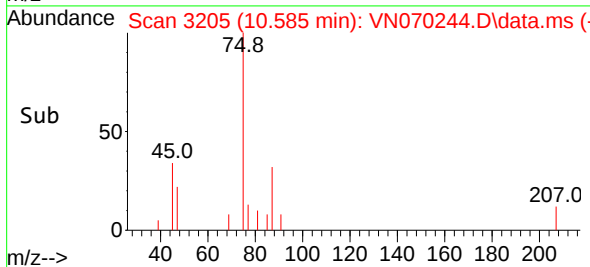
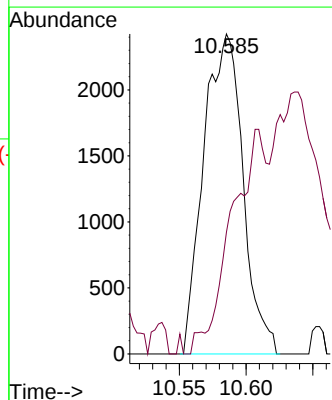
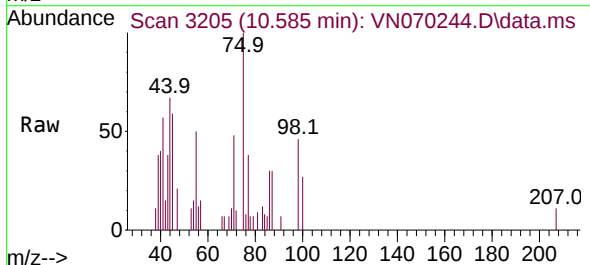
Instrument :
MSVOA_N
ClientSampleId :

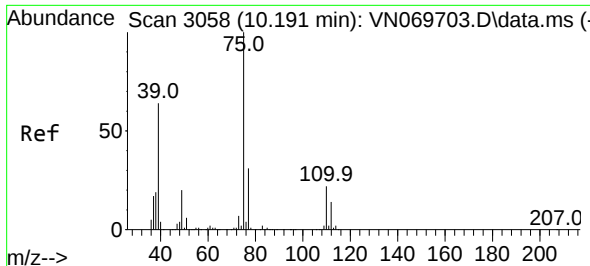
Tgt Ion: 98 Resp: 3185917
Ion Ratio Lower Upper
98 100
100 63.8 50.4 75.6



#53
t-1,3-Dichloropropene
Concen: 2.959 ug/l
RT: 10.585 min Scan# 3205
Delta R.T. -0.134 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

Tgt Ion: 75 Resp: 4956
Ion Ratio Lower Upper
75 100
77 31.8 25.6 38.4

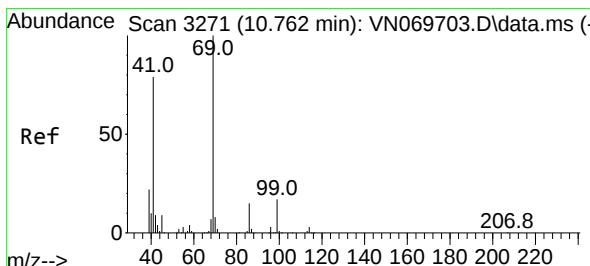
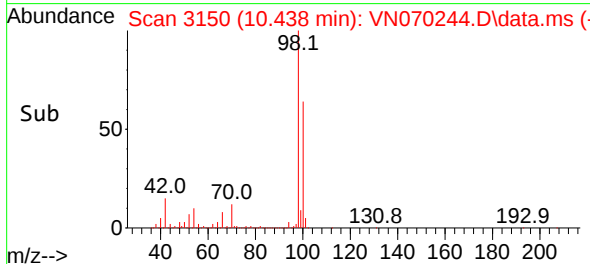
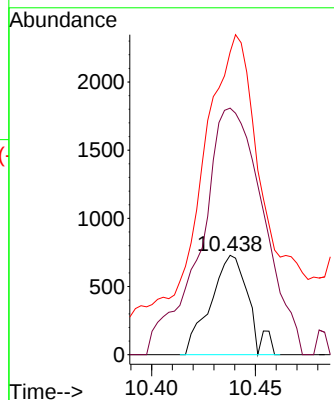
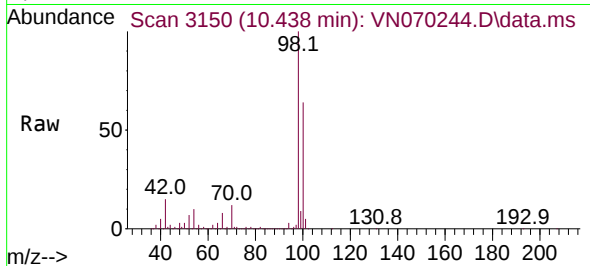




#54
cis-1,3-Dichloropropene
Concen: 2.029 ug/l
RT: 10.438 min Scan# 3150
Delta R.T. 0.247 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

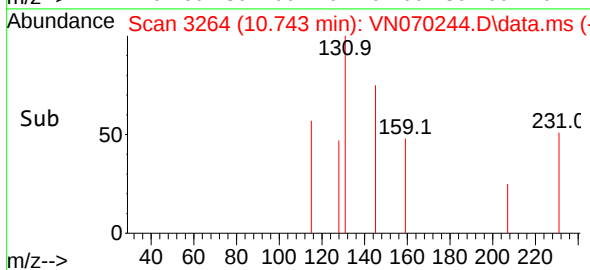
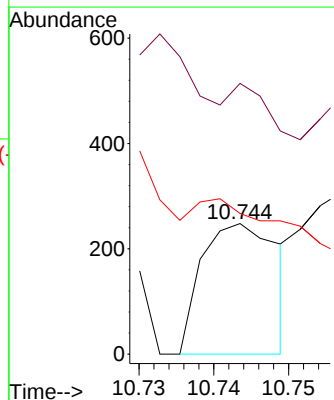
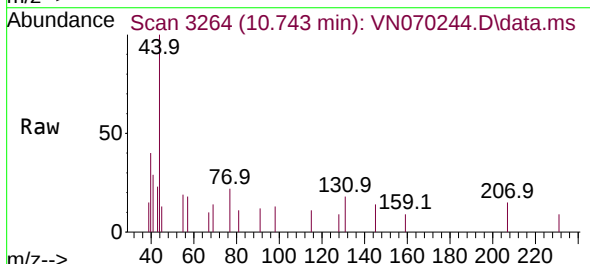
Instrument :
MSVOA_N
ClientSampleId :

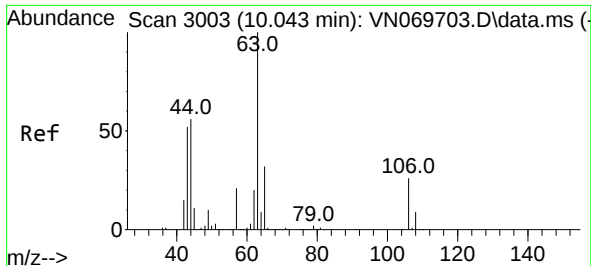
Tgt Ion: 75 Resp: 930
Ion Ratio Lower Upper
75 100
77 198.4 26.4 39.6#
39 230.6 42.5 63.7#



#56
Ethyl methacrylate
Concen: 2.284 ug/l
RT: 10.743 min Scan# 3264
Delta R.T. -0.019 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

Tgt Ion: 69 Resp: 175
Ion Ratio Lower Upper
69 100
41 125.1 51.4 77.0#
39 0.0 34.6 52.0#

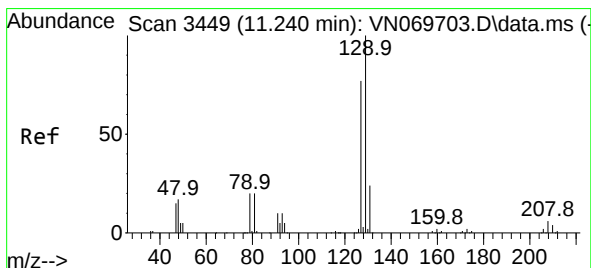
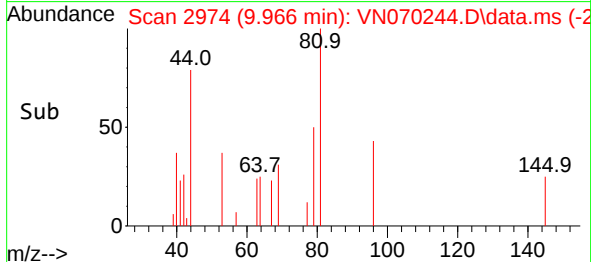
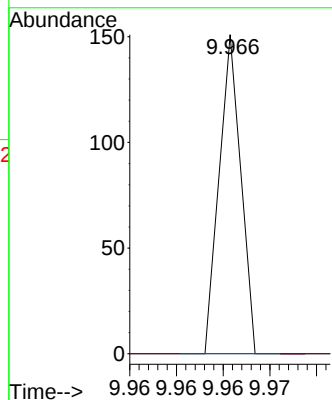
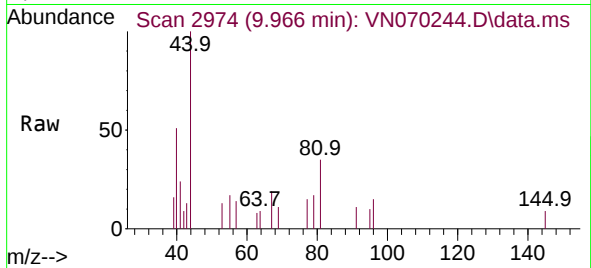




#58
2-Chloroethyl Vinyl ether
Concen: 18.391 ug/l
RT: 9.966 min Scan# 24
Delta R.T. -0.077 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

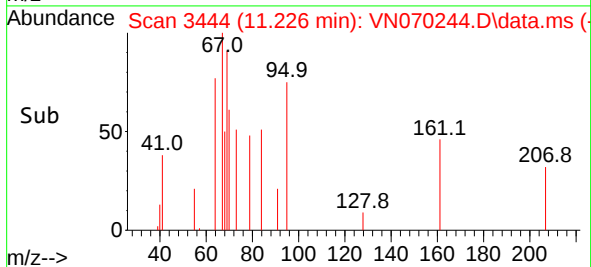
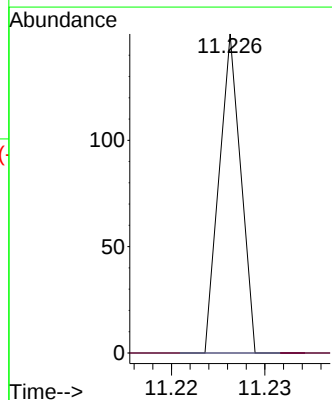
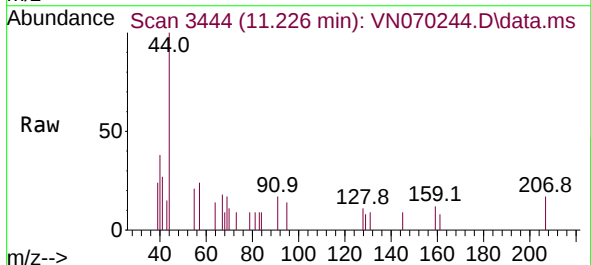
Instrument :
MSVOA_N
ClientSampleId :

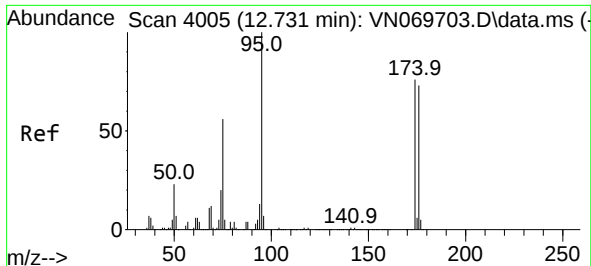
Tgt Ion: 63 Resp: 24
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#60
Dibromochloromethane
Concen: 2.377 ug/l
RT: 11.226 min Scan# 3444
Delta R.T. -0.014 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

Tgt Ion:129 Resp: 24
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

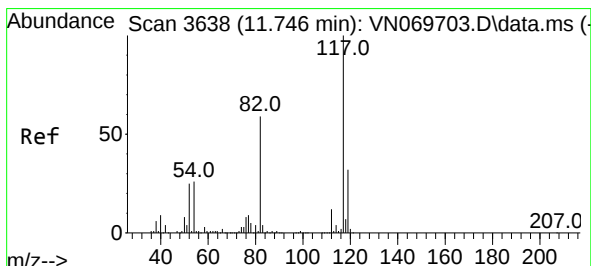
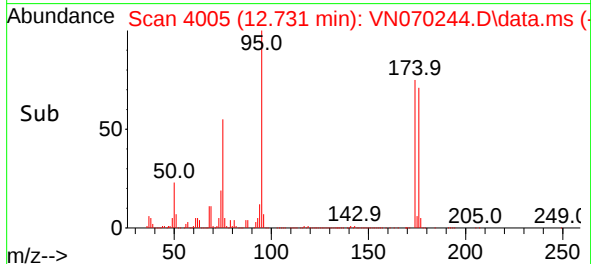
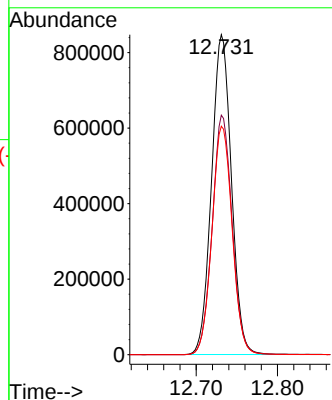
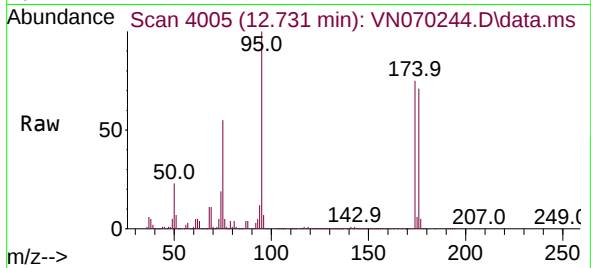




#62
4-Bromofluorobenzene
Concen: 64.995 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

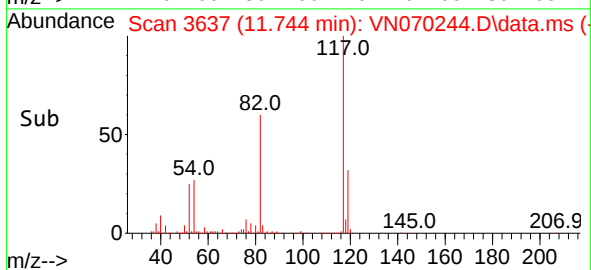
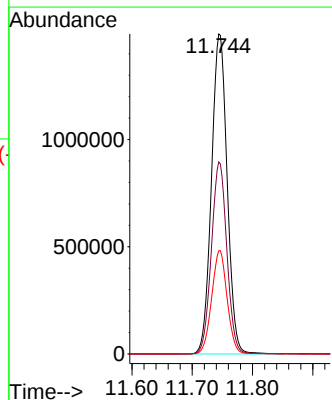
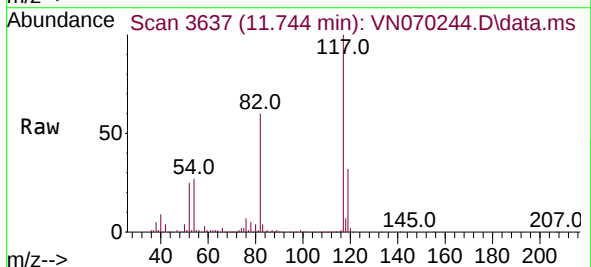
Instrument :
MSVOA_N
ClientSampleId :

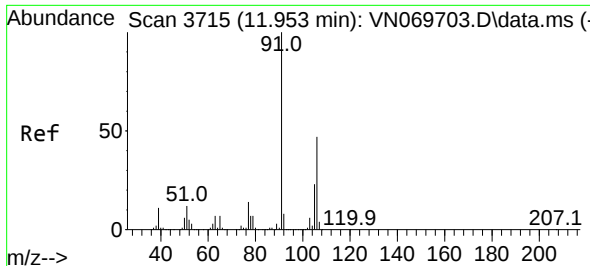
Tgt Ion: 95 Resp: 1440715
Ion Ratio Lower Upper
95 100
174 75.0 0.0 187.2
176 72.7 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

Tgt Ion: 117 Resp: 2697551
Ion Ratio Lower Upper
117 100
82 60.0 42.4 63.6
119 32.2 25.4 38.2

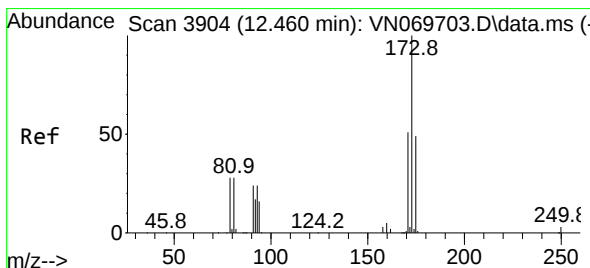
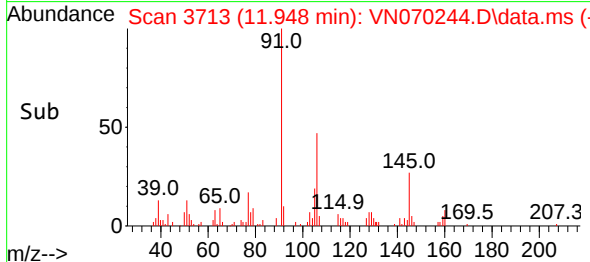
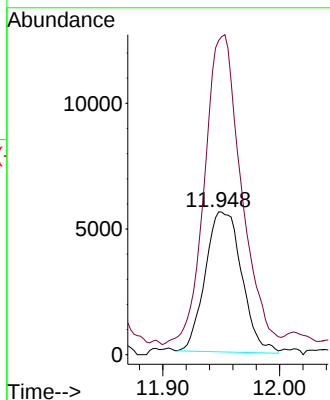
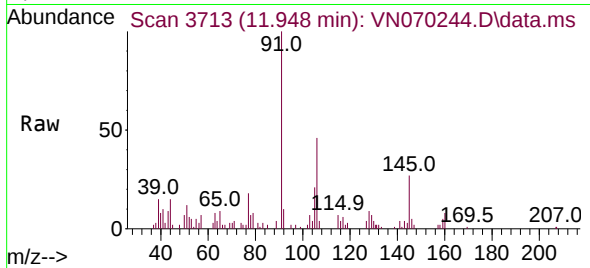




#68
m/p-Xylenes
Concen: 0.335 ug/l
RT: 11.948 min Scan# 31
Delta R.T. -0.005 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

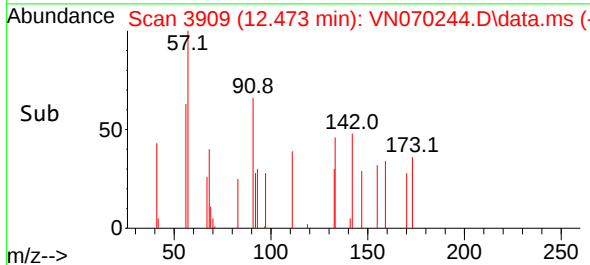
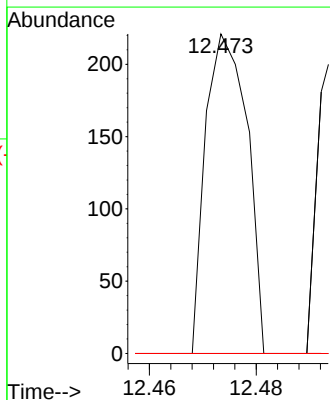
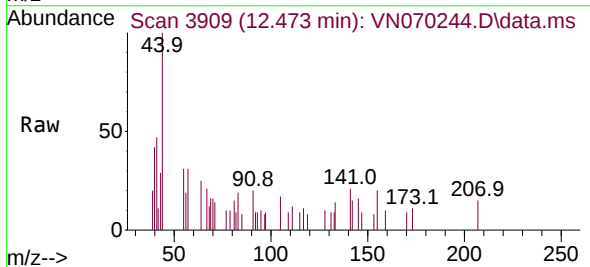
Instrument :
MSVOA_N
ClientSampleId :

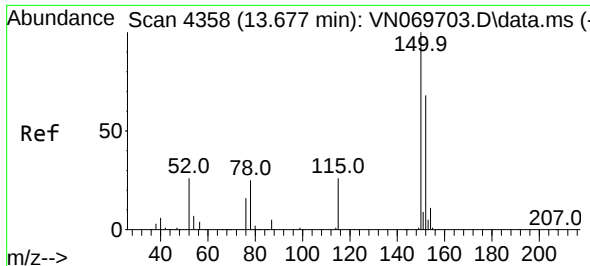
Tgt Ion:106 Resp: 12108
Ion Ratio Lower Upper
106 100
91 221.3 160.6 240.8



#71
Bromoform
Concen: 2.738 ug/l
RT: 12.473 min Scan# 3909
Delta R.T. 0.013 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

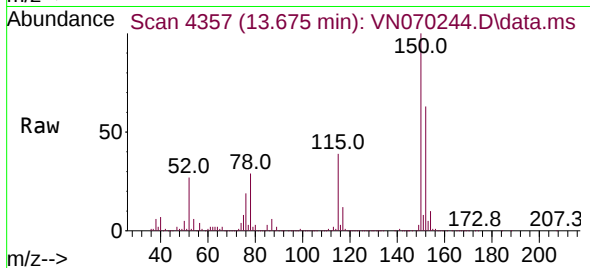
Tgt Ion:173 Resp: 119
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



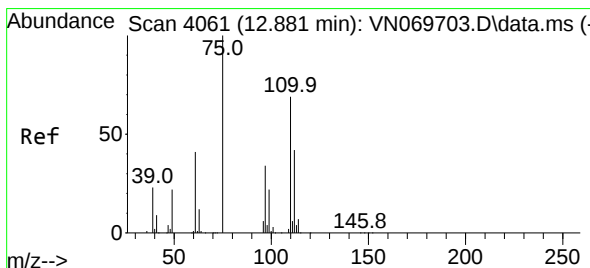
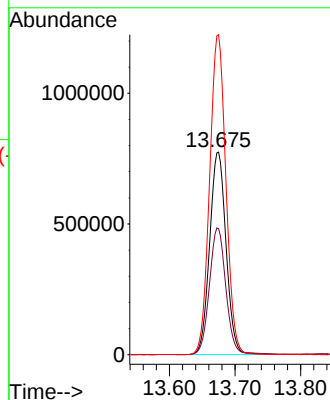
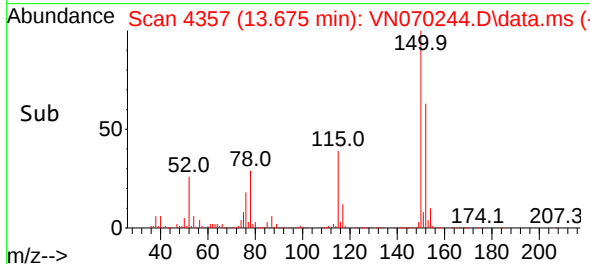


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.675 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VN070244.D
 Acq: 20 Dec 2021 16:44

Instrument :
 MSVOA_N
 ClientSampleId :

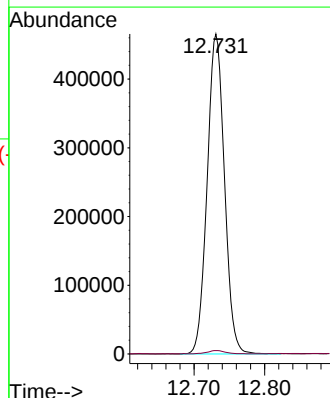
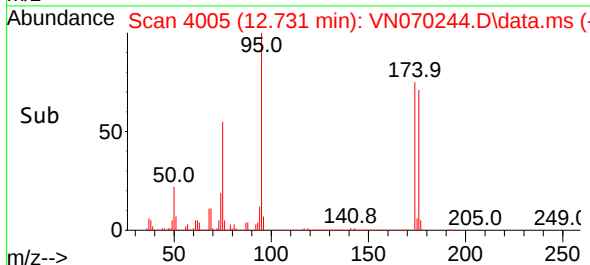
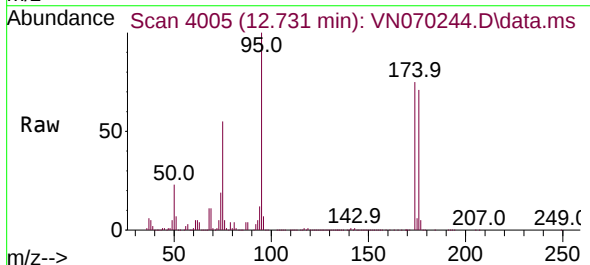


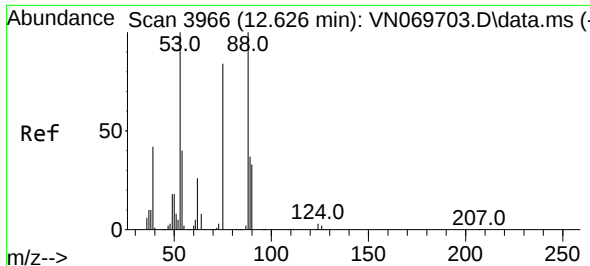
Tgt Ion:152 Resp: 1348564
 Ion Ratio Lower Upper
 152 100
 115 62.6 27.5 82.5
 150 156.2 0.0 344.4



#76
 1,2,3-Trichloropropane
 Concen: 20.501 ug/l
 RT: 12.731 min Scan# 4005
 Delta R.T. -0.150 min
 Lab File: VN070244.D
 Acq: 20 Dec 2021 16:44

Tgt Ion: 75 Resp: 792854
 Ion Ratio Lower Upper
 75 100
 77 1.1 82.6 247.8#

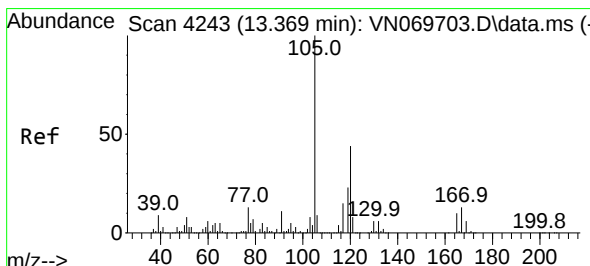
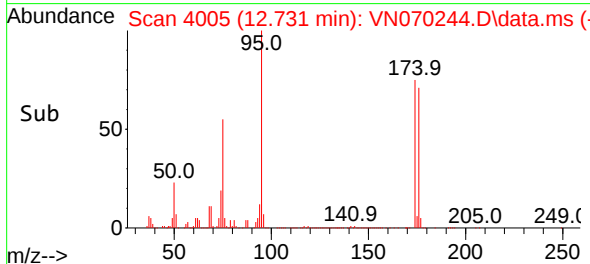
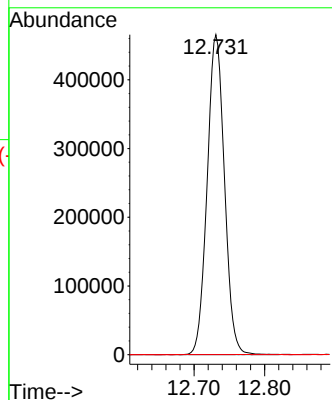
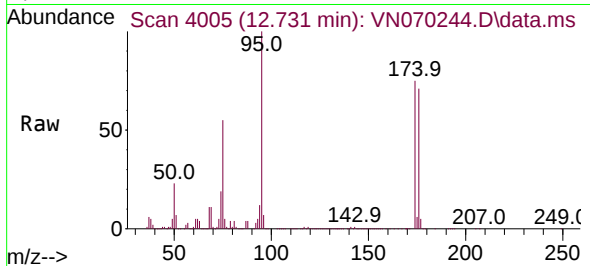




#81
trans-1,4-Dichloro-2-butene
Concen: 65.709 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

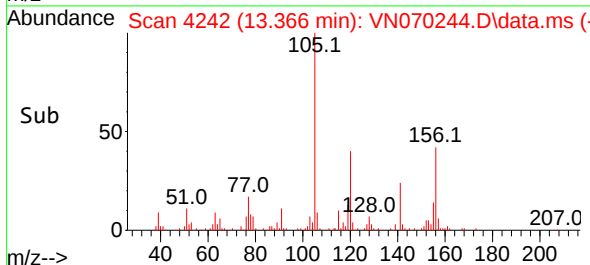
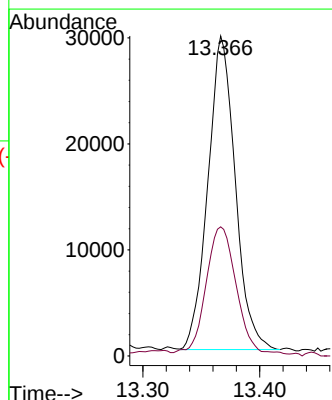
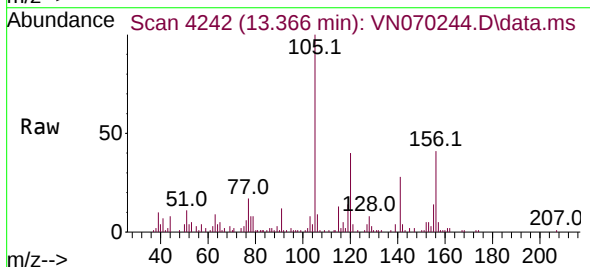
Instrument :
MSVOA_N
ClientSampleId :

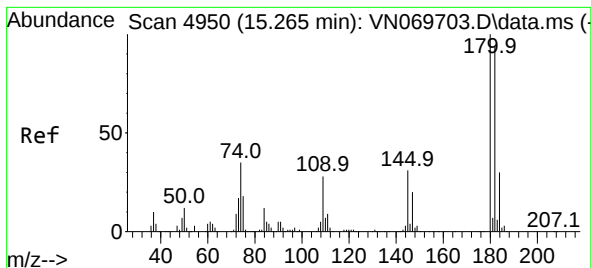
Tgt Ion: 75 Resp: 792854
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#



#84
1,2,4-Trimethylbenzene
Concen: 0.523 ug/l
RT: 13.366 min Scan# 4242
Delta R.T. -0.003 min
Lab File: VN070244.D
Acq: 20 Dec 2021 16:44

Tgt Ion: 105 Resp: 48141
Ion Ratio Lower Upper
105 100
120 44.6 22.8 68.4





#93

1,2,4-Trichlorobenzene

Concen: 2.882 ug/l

RT: 15.265 min Scan# 4950

Delta R.T. 0.000 min

Lab File: VN070244.D

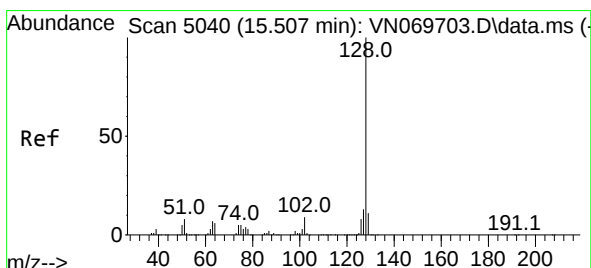
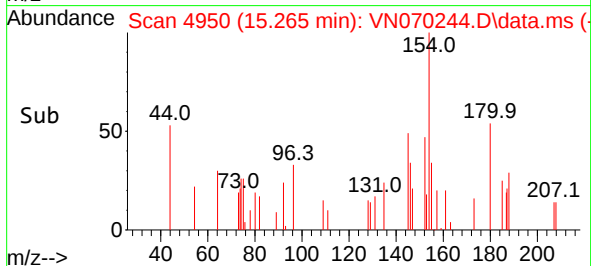
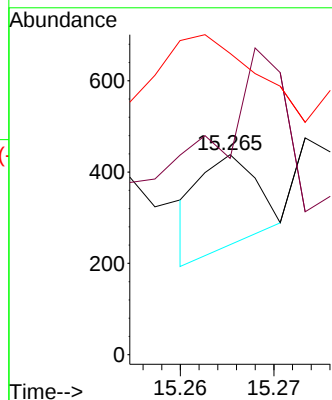
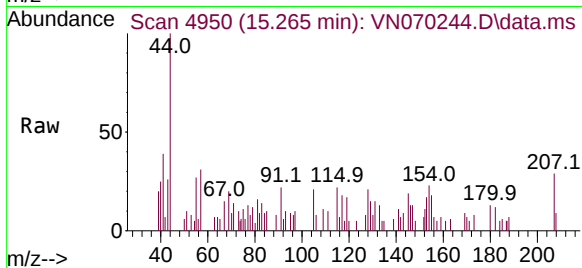
Acq: 20 Dec 2021 16:44

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:180	Resp:	88
Ion Ratio	Lower	Upper
180	100	
182	392.0	48.3 144.9#
145	227.3	14.5 43.5#



#95

Naphthalene

Concen: 6.096 ug/l

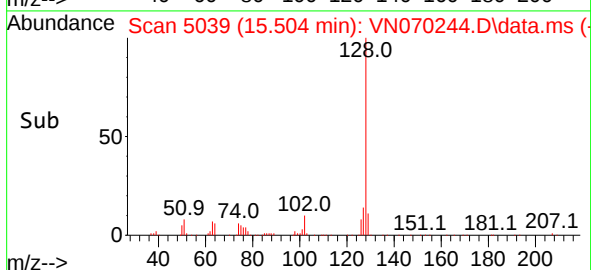
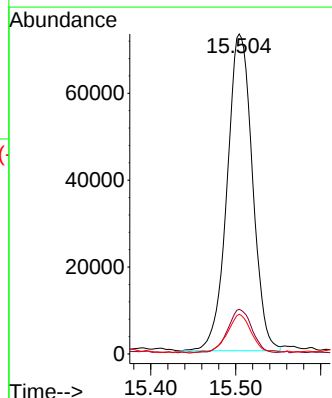
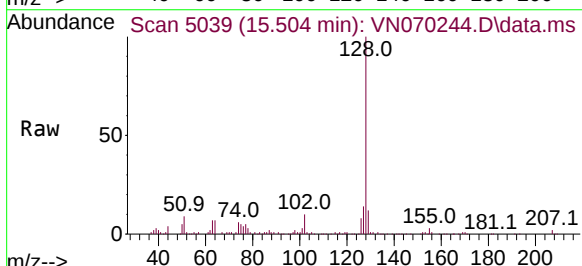
RT: 15.504 min Scan# 5039

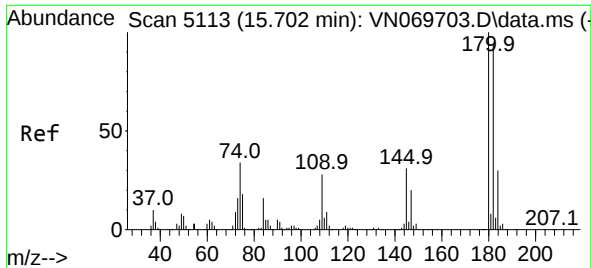
Delta R.T. -0.003 min

Lab File: VN070244.D

Acq: 20 Dec 2021 16:44

Tgt Ion:128	Resp:	151162
Ion Ratio	Lower	Upper
128	100	
127	13.4	10.5 15.7
129	10.4	8.7 13.1





#96

1,2,3-Trichlorobenzene

Concen: 2.472 ug/l

RT: 15.705 min Scan# 51

Delta R.T. 0.003 min

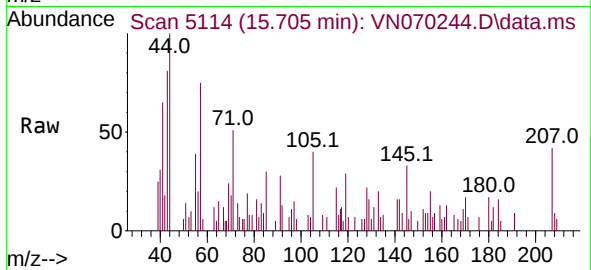
Lab File: VN070244.D

Acq: 20 Dec 2021 16:44

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 833

Ion Ratio Lower Upper

180 100

182 125.0 47.4 142.2

145 99.8 15.0 45.1#

