

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122921\
 Data File : VN070383.D
 Acq On : 30 Dec 2021 7:34
 Operator : JC/MD
 Sample : M5007-05
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 30 08:03:46 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122721W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 27 18:47:12 2021
 Response via : Initial Calibration

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

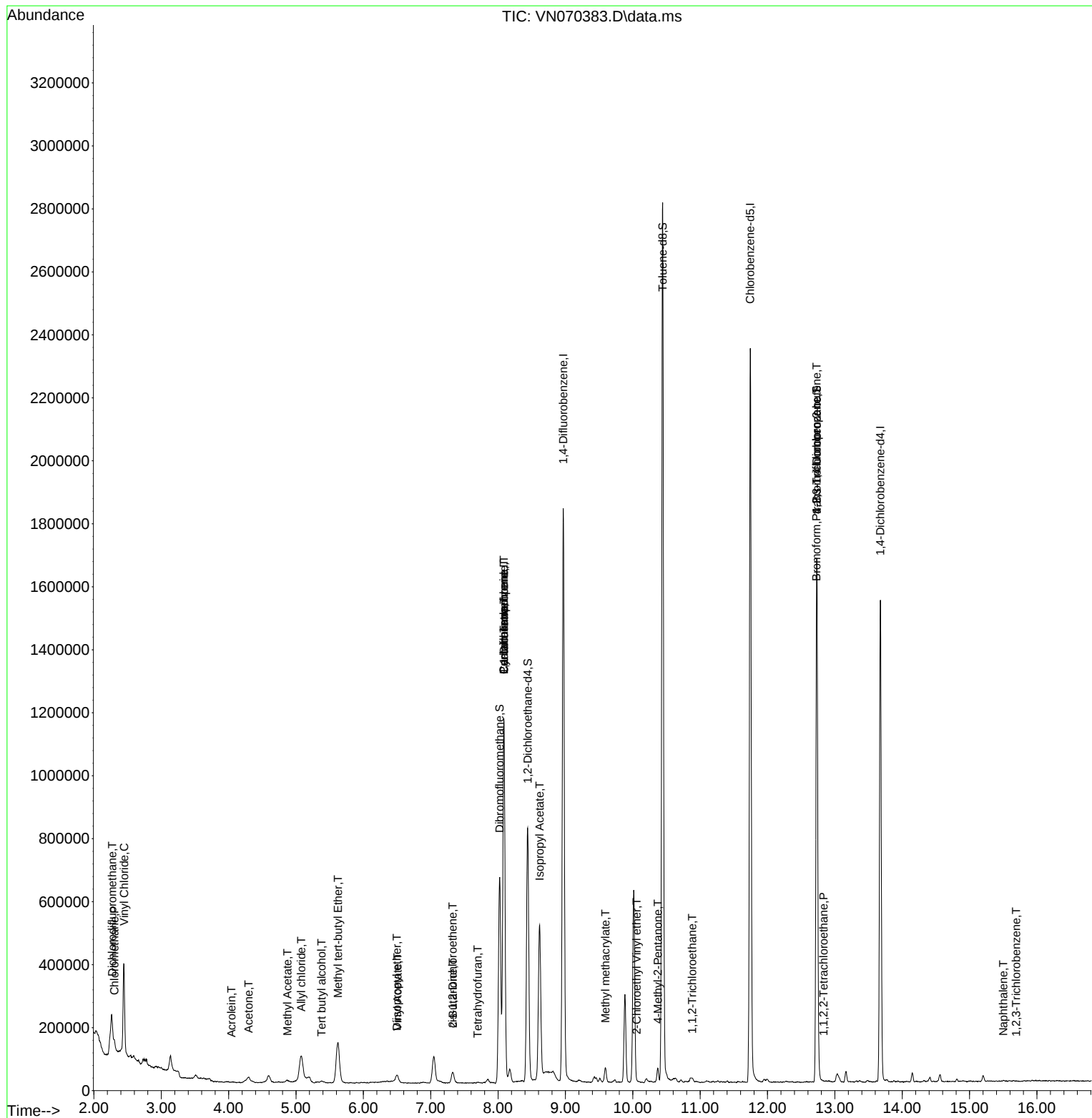
Internal Standards						
1) Pentafluorobenzene	8.086	168	883762	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	1540822	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	1339582	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	420815	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	690357	54.330	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 108.660%	
35) Dibromofluoromethane	8.024	113	486894	52.226	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 104.460%	
50) Toluene-d8	10.443	98	1907793	50.094	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 100.180%	
62) 4-Bromofluorobenzene	12.731	95	612563	44.533	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 89.060%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.271	85	5514	0.550	ug/l	100
3) Chloromethane	2.303	50	3968	0.291	ug/l	100
4) Vinyl Chloride	2.448	62	14135	1.139	ug/l #	42
11) Tert butyl alcohol	5.380	59	2917	1.379	ug/l #	71
13) Acrolein	4.041	56	730	0.425	ug/l	88
14) Allyl chloride	5.079	41	41340	2.026	ug/l #	57
16) Acetone	4.296	43	29065	3.524	ug/l	99
18) Methyl Acetate	4.873	43	11687	0.490	ug/l #	82
19) Methyl tert-butyl Ether	5.624	73	183982	5.504	ug/l #	90
22) Diisopropyl ether	6.498	45	30782	0.774	ug/l #	89
23) Vinyl Acetate	6.506	43	16719	0.542	ug/l #	72
25) 2-Butanone	7.329	43	3014	0.290	ug/l #	75
27) cis-1,2-Dichloroethene	7.327	96	15068	1.325	ug/l	90
29) Tetrahydrofuran	7.697	42	1478	0.239	ug/l #	41
31) Cyclohexane	8.086	56	21246	1.060	ug/l #	28
36) 1,1-Dichloropropene	8.086	75	72116	4.676	ug/l #	49
38) Carbon Tetrachloride	8.086	117	87503	5.942	ug/l #	17
43) Isopropyl Acetate	8.617	43	136084	4.318	ug/l #	55
48) Methyl methacrylate	9.593	41	12660	0.842	ug/l #	36
51) 4-Methyl-2-Pentanone	10.371	43	4555	0.230	ug/l #	37
55) 1,1,2-Trichloroethane	10.880	97	2527	0.223	ug/l #	30
58) 2-Chloroethyl Vinyl ether	10.057	63	55	18.524	ug/l #	45
71) Bromoform	12.726	173	1762	0.234	ug/l #	29
75) 1,1,2,2-Tetrachloroethane	12.833	83	54	0.451	ug/l #	25
76) 1,2,3-Trichloropropane	12.731	75	325232	27.412	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	325232	94.426	ug/l #	5
95) Naphthalene	15.501	128	944	1.844	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.692	180	50	0.833	ug/l #	1

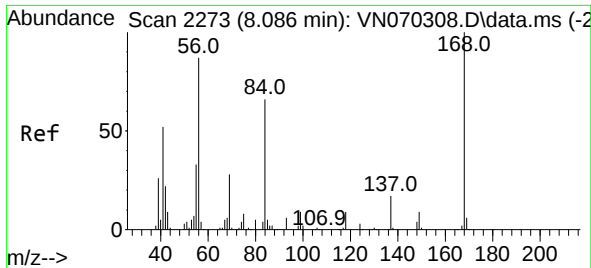
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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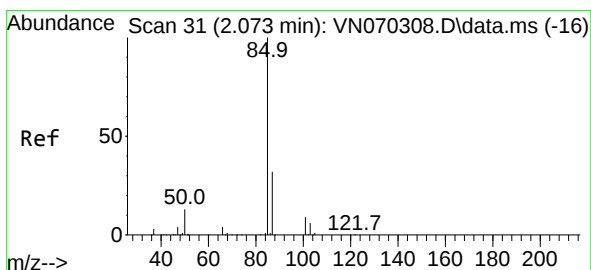
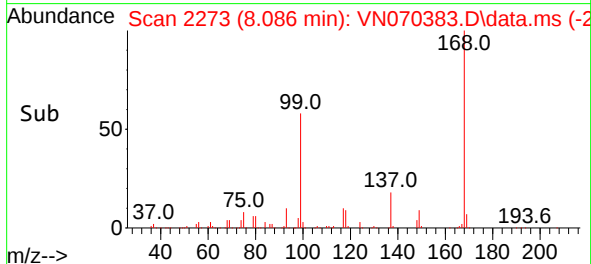
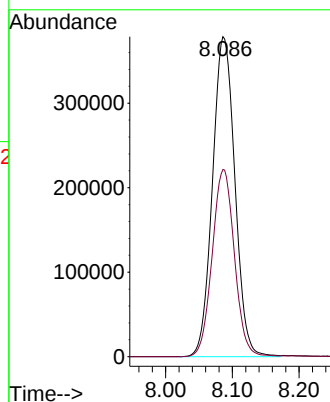
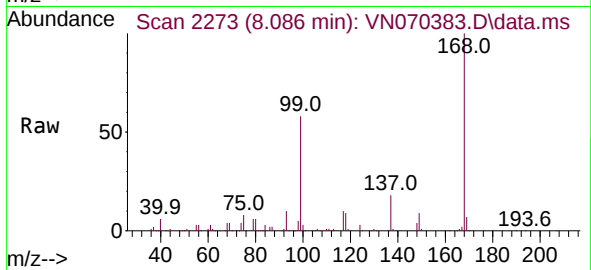




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

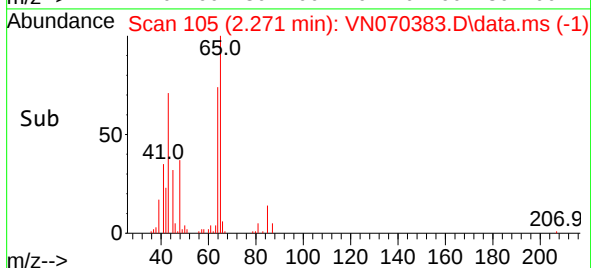
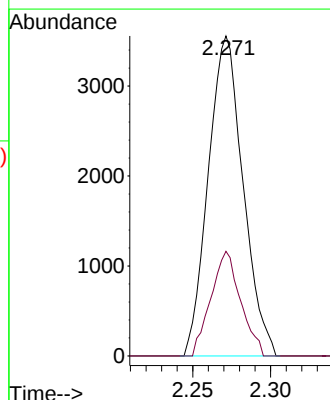
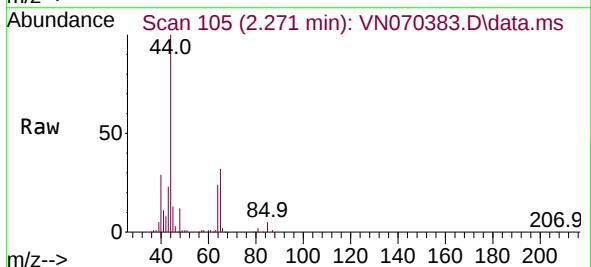
Instrument :
MSVOA_N
ClientSampleId :

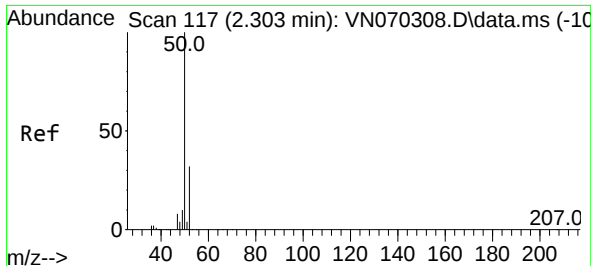
Tgt Ion:168 Resp: 883762
Ion Ratio Lower Upper
168 100
99 58.5 41.3 61.9



#2
Dichlorodifluoromethane
Concen: 0.550 ug/l
RT: 2.271 min Scan# 105
Delta R.T. 0.198 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

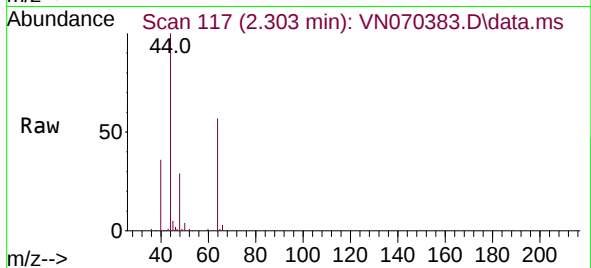
Tgt Ion: 85 Resp: 5514
Ion Ratio Lower Upper
85 100
87 32.7 16.3 48.9



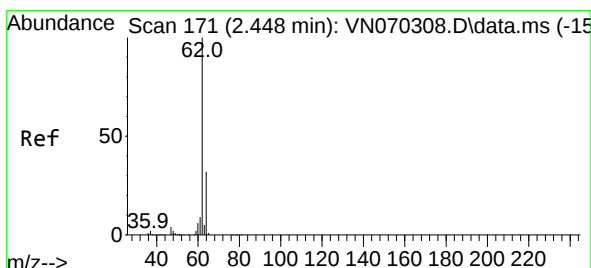
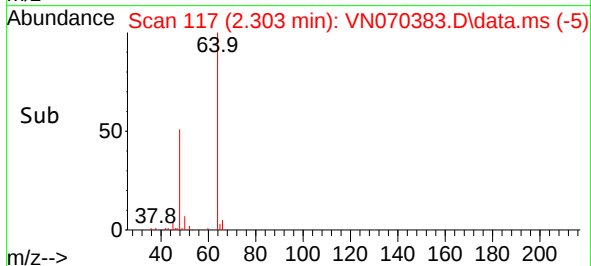
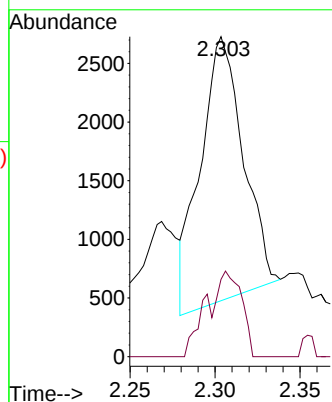


#3
Chloromethane
Concen: 0.291 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

Instrument :
MSVOA_N
ClientSampleId :

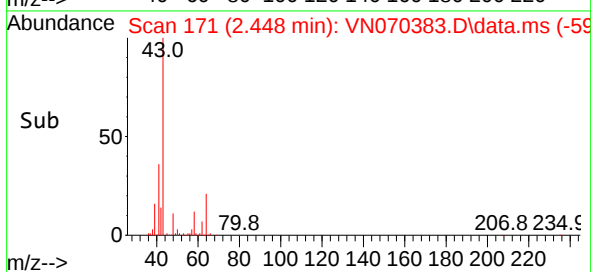
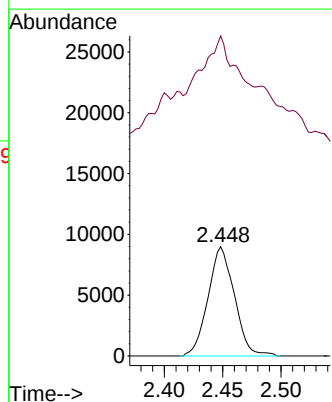
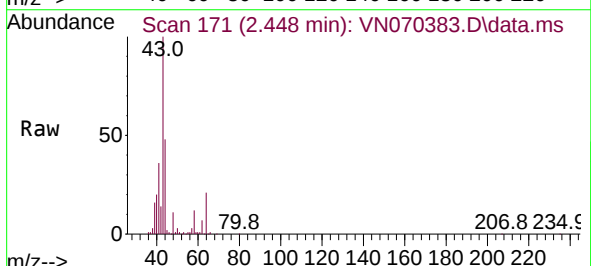


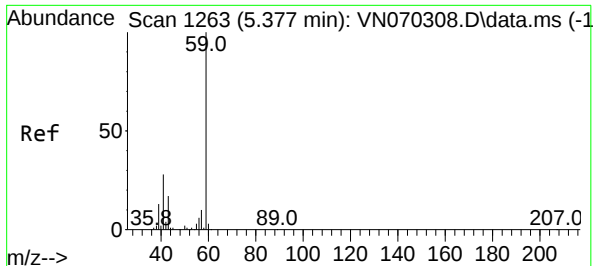
Tgt Ion: 50 Resp: 3968
Ion Ratio Lower Upper
50 100
52 31.9 25.4 38.0



#4
Vinyl Chloride
Concen: 1.139 ug/l
RT: 2.448 min Scan# 171
Delta R.T. 0.000 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

Tgt Ion: 62 Resp: 14135
Ion Ratio Lower Upper
62 100
64 64.4 25.8 38.6#





#11

Tert butyl alcohol

Concen: 1.379 ug/l

RT: 5.380 min Scan# 11

Delta R.T. 0.003 min

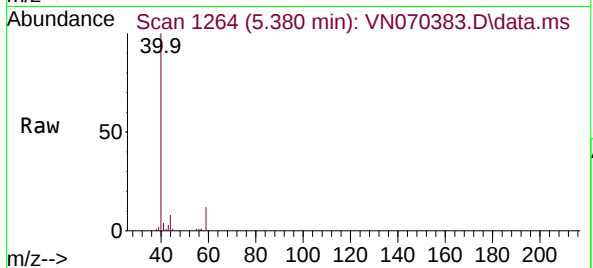
Lab File: VN070383.D

Acq: 30 Dec 2021 7:34

Instrument :

MSVOA_N

ClientSampleId :

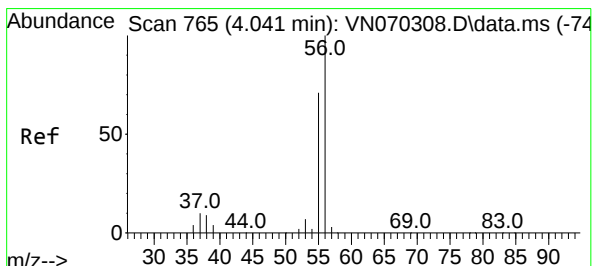
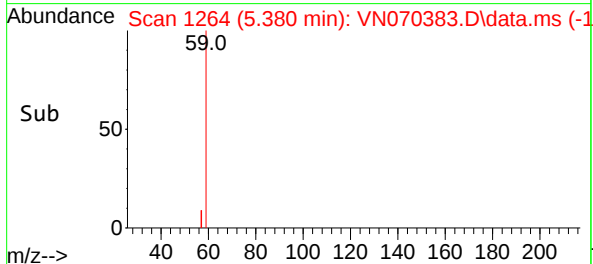
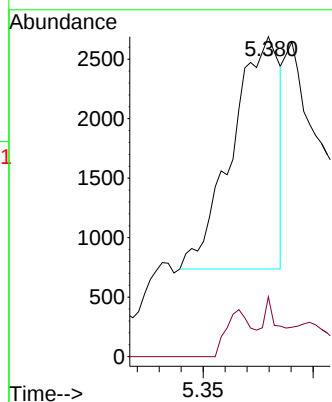


Tgt Ion: 59 Resp: 2917

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#13

Acrolein

Concen: 0.425 ug/l

RT: 4.041 min Scan# 765

Delta R.T. 0.000 min

Lab File: VN070383.D

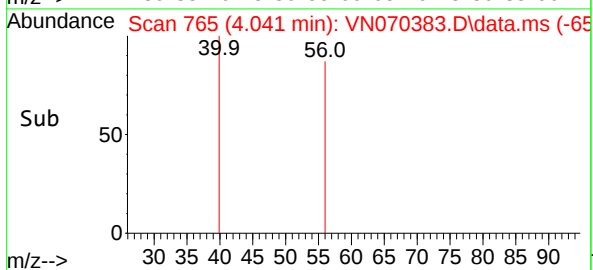
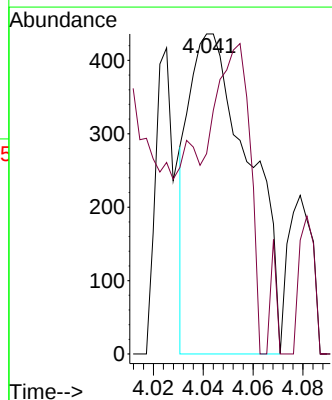
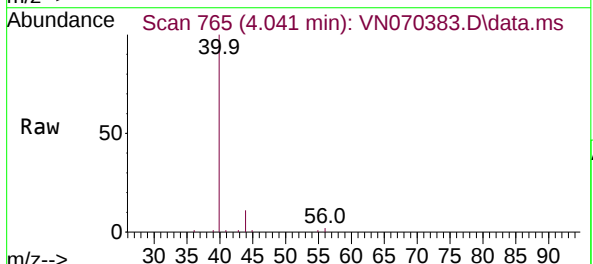
Acq: 30 Dec 2021 7:34

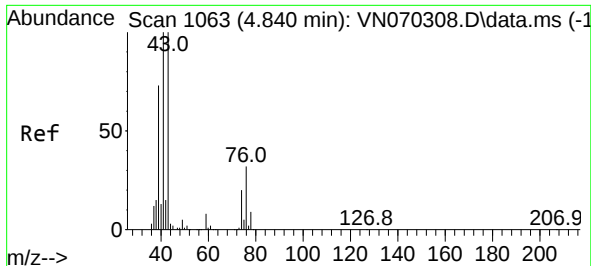
Tgt Ion: 56 Resp: 730

Ion Ratio Lower Upper

56 100

55 61.2 56.6 85.0





#14

Allyl chloride

Concen: 2.026 ug/l

RT: 5.079 min Scan# 1152

Delta R.T. 0.239 min

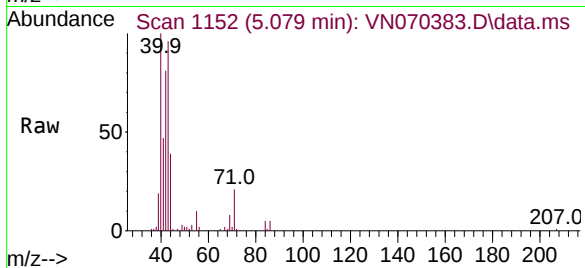
Lab File: VN070383.D

Acq: 30 Dec 2021 7:34

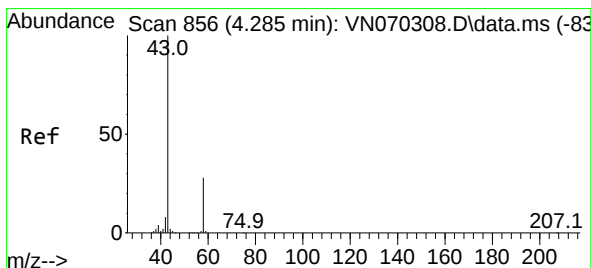
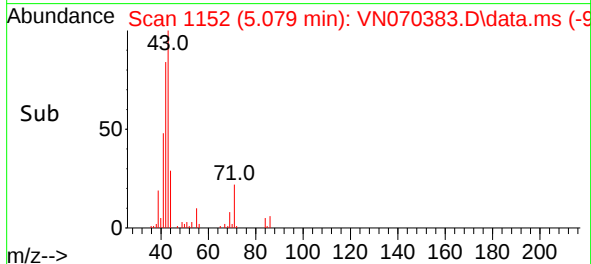
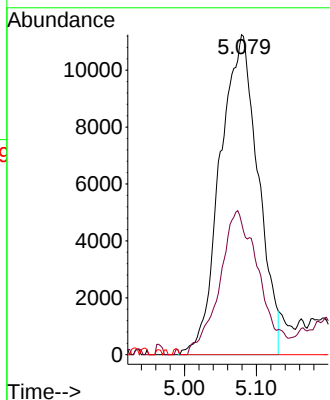
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	41	Resp:	41340
Ion	Ratio	Lower	Upper
41	100		
39	44.9	61.2	91.8#
76	0.0	26.0	39.0#



#16

Acetone

Concen: 3.524 ug/l

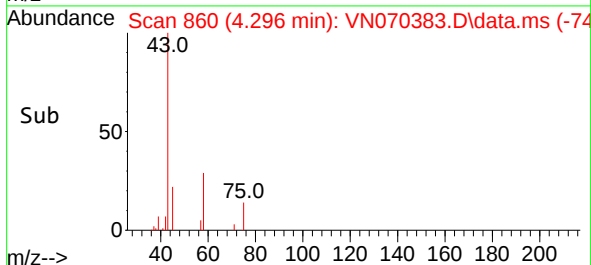
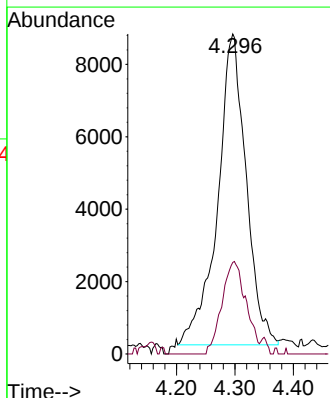
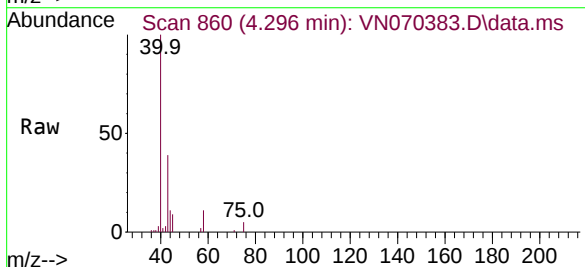
RT: 4.296 min Scan# 860

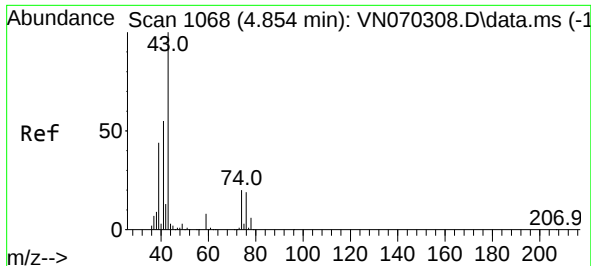
Delta R.T. 0.011 min

Lab File: VN070383.D

Acq: 30 Dec 2021 7:34

Tgt Ion:	43	Resp:	29065
Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.1	34.7





#18

Methyl Acetate

Concen: 0.490 ug/l

RT: 4.873 min Scan# 11687

Delta R.T. 0.019 min

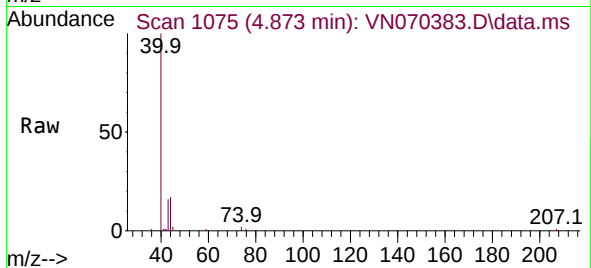
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Acq: 30 Dec 2021 7:34

Instrument :

MSVOA_N

ClientSampleId :

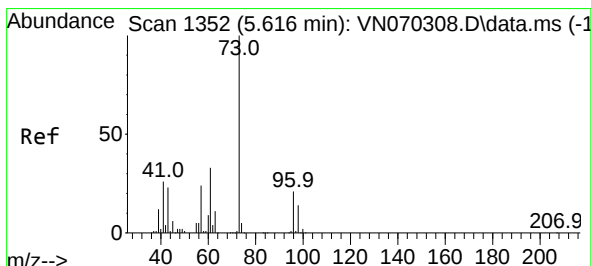
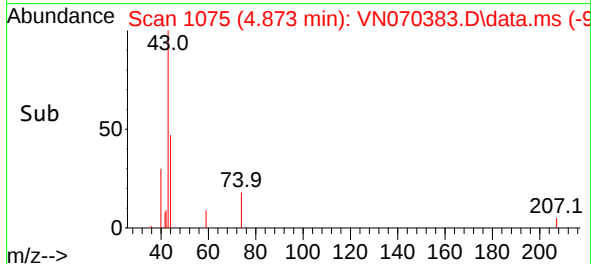
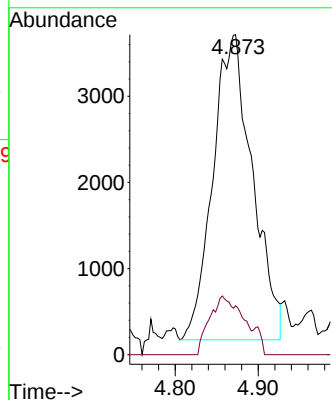


Tgt Ion: 43 Resp: 11687

Ion Ratio Lower Upper

43 100

74 15.5 19.4 29.2#



#19

Methyl tert-butyl Ether

Concen: 5.504 ug/l

RT: 5.624 min Scan# 1355

Delta R.T. 0.008 min

Lab File: VN070383.D

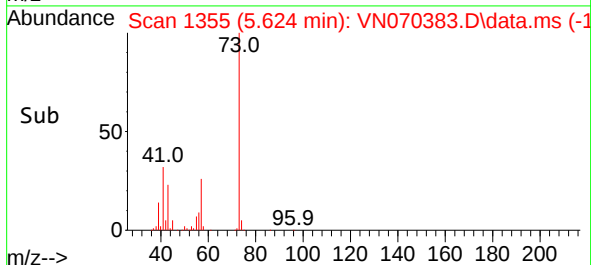
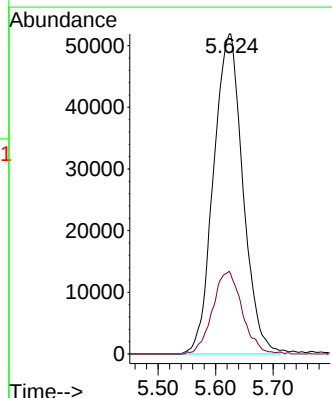
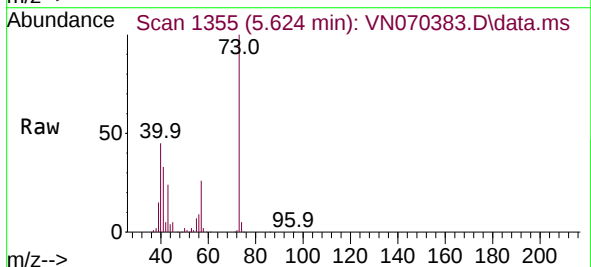
Acq: 30 Dec 2021 7:34

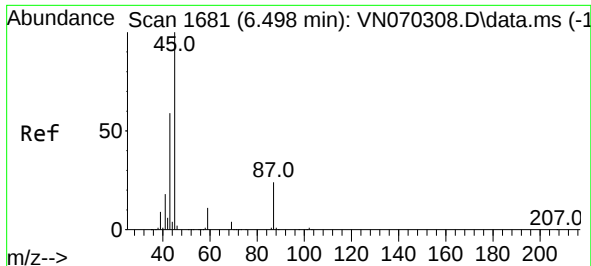
Tgt Ion: 73 Resp: 183982

Ion Ratio Lower Upper

73 100

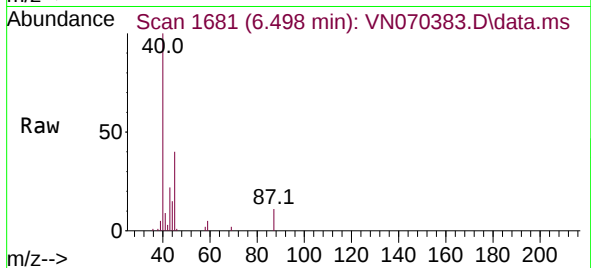
57 25.8 16.8 25.2#



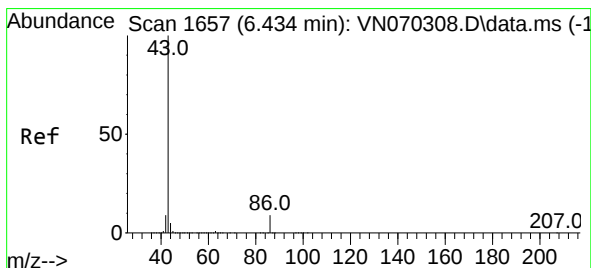
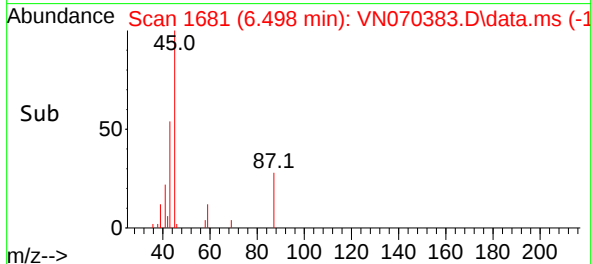
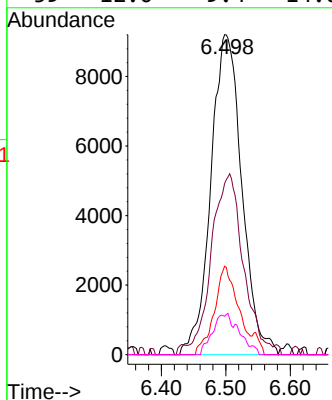


#22
Diisopropyl ether
Concen: 0.774 ug/l
RT: 6.498 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN070383.D
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ClientSampleId :

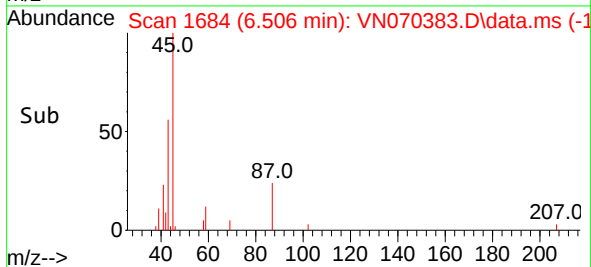
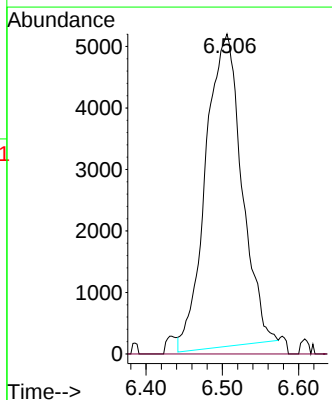
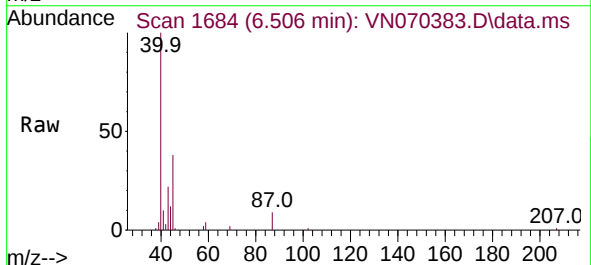


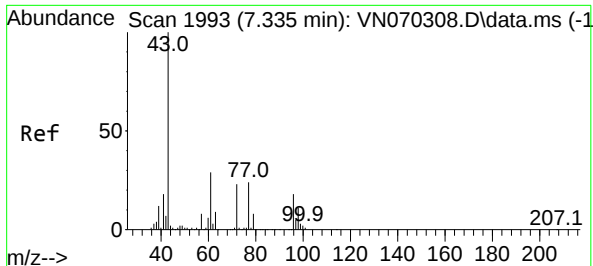
Tgt Ion:	45	Resp:	30782
Ion Ratio	Lower	Upper	
45	100		
43	51.4	51.7	77.5#
87	27.7	23.2	34.8
59	12.0	9.4	14.0



#23
Vinyl Acetate
Concen: 0.542 ug/l
RT: 6.506 min Scan# 1684
Delta R.T. 0.072 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

Tgt Ion:	43	Resp:	16719
Ion Ratio	Lower	Upper	
43	100		
86	0.0	8.5	12.7#





#25

2-Butanone

Concen: 0.290 ug/l

RT: 7.329 min Scan# 1991

Delta R.T. -0.006 min

Lab File: VN070383.D

Acq: 30 Dec 2021 7:34

Instrument :

MSVOA_N

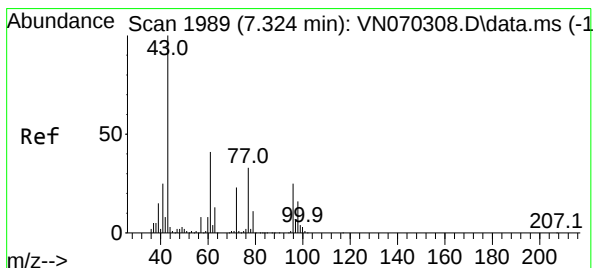
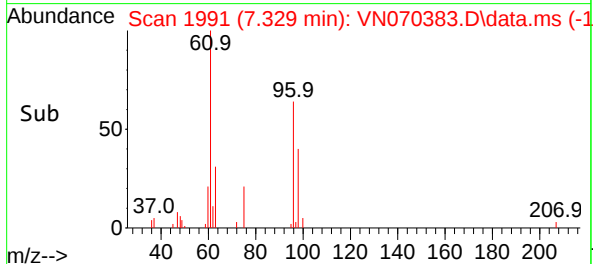
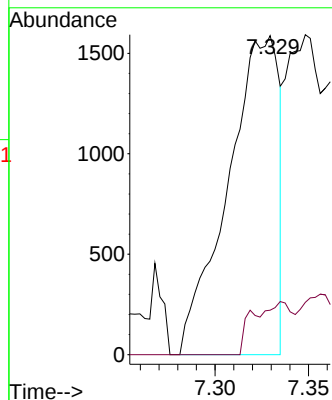
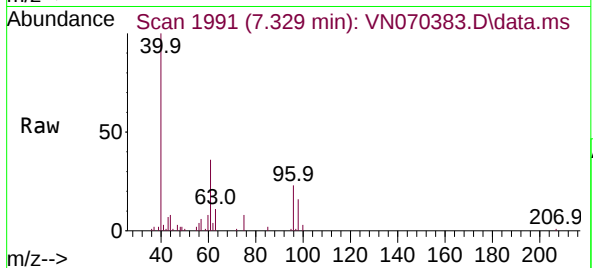
ClientSampleId :

Tgt Ion: 43 Resp: 3014

Ion Ratio Lower Upper

43 100

72 13.9 21.7 32.5#



#27

cis-1,2-Dichloroethene

Concen: 1.325 ug/l

RT: 7.327 min Scan# 1990

Delta R.T. 0.003 min

Lab File: VN070383.D

Acq: 30 Dec 2021 7:34

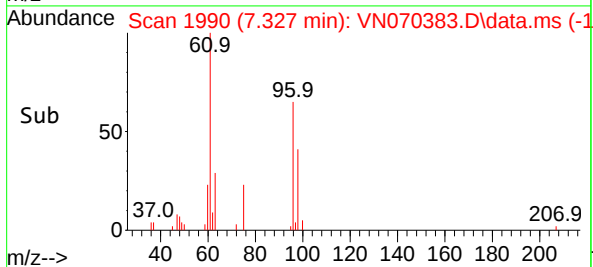
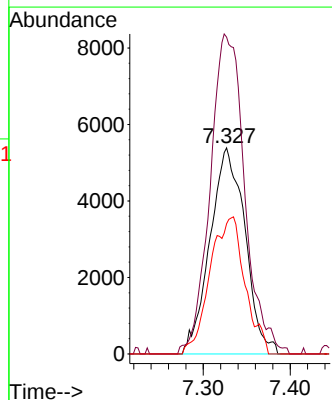
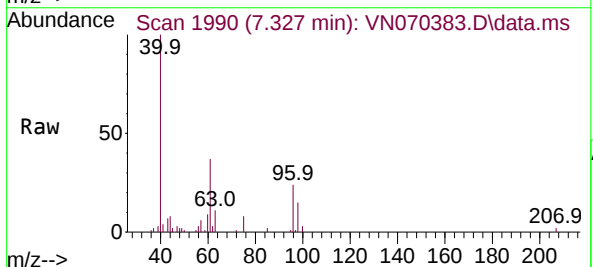
Tgt Ion: 96 Resp: 15068

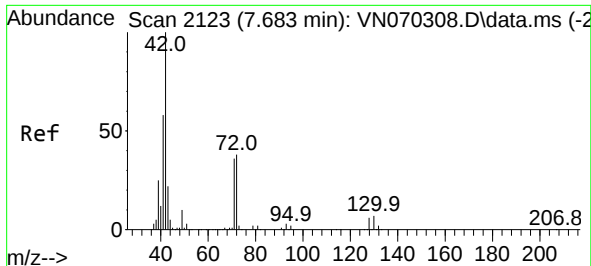
Ion Ratio Lower Upper

96 100

61 153.4 0.0 275.0

98 66.6 0.0 129.6





#29

Tetrahydrofuran

Concen: 0.239 ug/l

RT: 7.697 min Scan# 21

Delta R.T. 0.014 min

Lab File: VN070383.D

Acq: 30 Dec 2021 7:34

Instrument :

MSVOA_N

ClientSampleId :

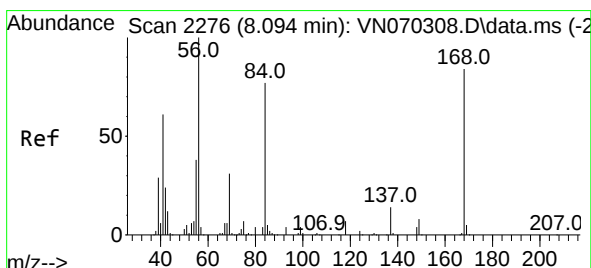
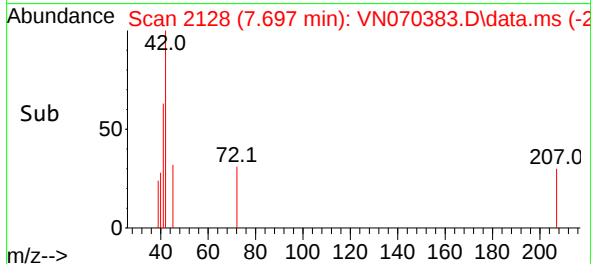
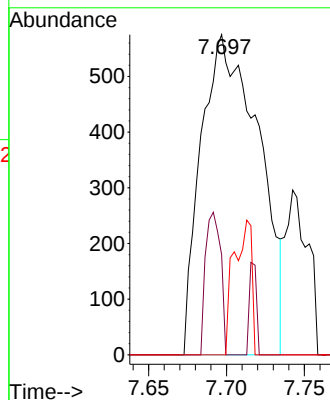
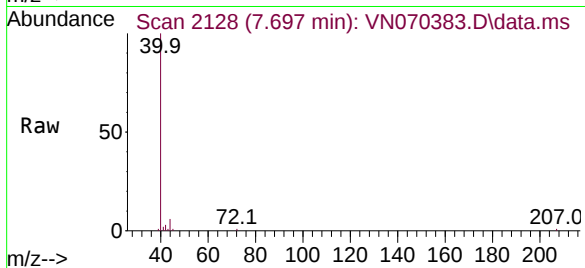
Tgt Ion: 42 Resp: 1478

Ion Ratio Lower Upper

42 100

72 11.7 36.3 54.5#

71 0.0 34.7 52.1#



#31

Cyclohexane

Concen: 1.060 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.008 min

Lab File: VN070383.D

Acq: 30 Dec 2021 7:34

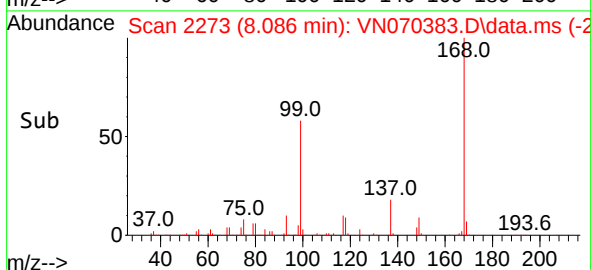
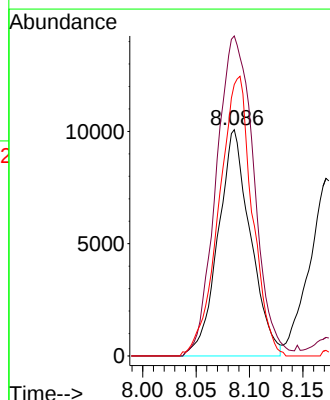
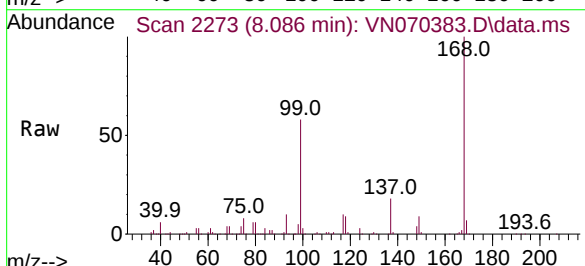
Tgt Ion: 56 Resp: 21246

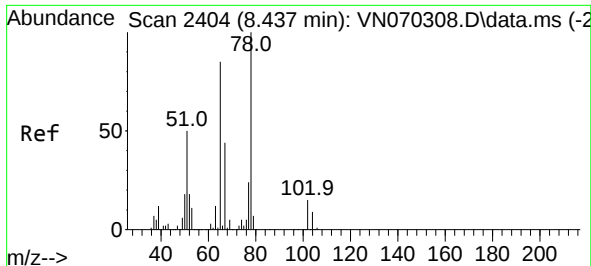
Ion Ratio Lower Upper

56 100

69 141.4 27.1 40.7#

84 120.0 73.4 110.0#

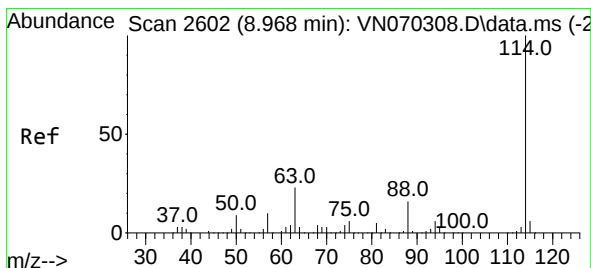
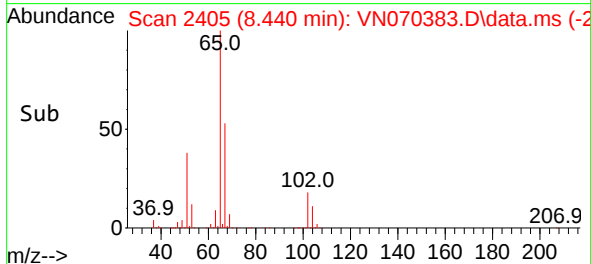
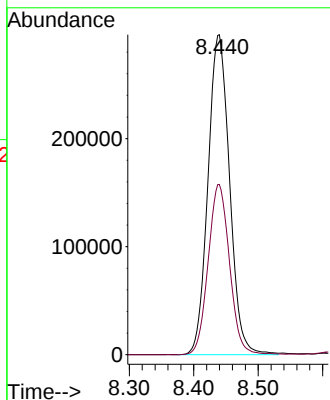
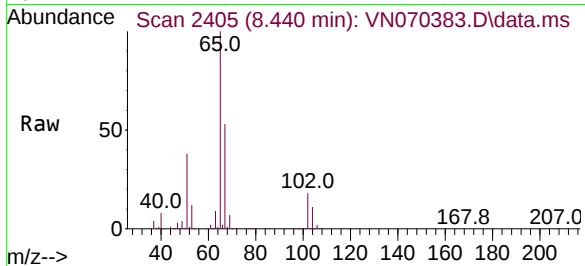




#33
 1,2-Dichloroethane-d4
 Concen: 54.330 ug/l
 RT: 8.440 min Scan# 2404
 Delta R.T. 0.003 min
 Lab File: VN070383.D
 Acq: 30 Dec 2021 7:34

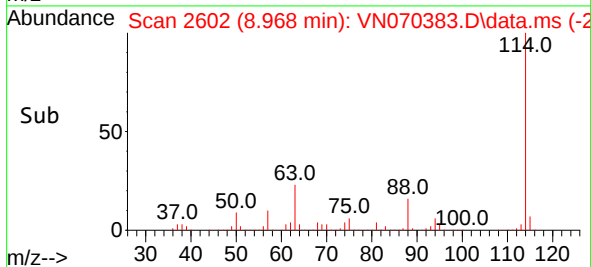
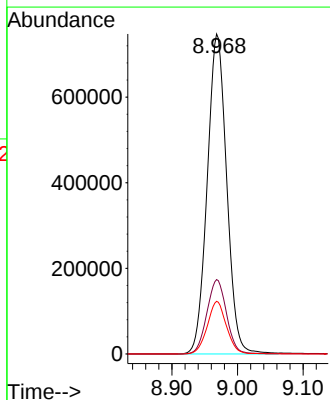
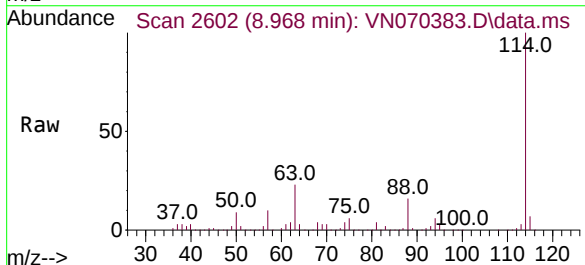
Instrument :
 MSVOA_N
 ClientSampleId :

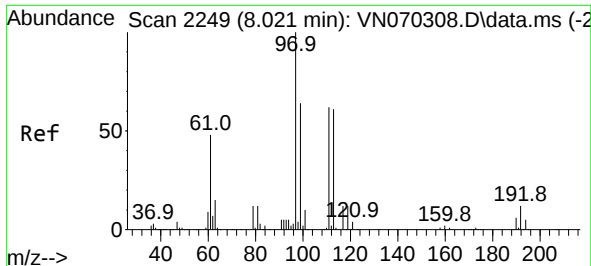
Tgt Ion: 65 Resp: 690357
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.968 min Scan# 2602
 Delta R.T. 0.000 min
 Lab File: VN070383.D
 Acq: 30 Dec 2021 7:34

Tgt Ion: 114 Resp: 1540822
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 37.8
 88 16.4 0.0 27.4





#35

Dibromofluoromethane

Concen: 52.226 ug/l

RT: 8.024 min Scan# 21

Delta R.T. 0.003 min

Lab File: VN070383.D

Acq: 30 Dec 2021 7:34

Instrument :

MSVOA_N

ClientSampleId :

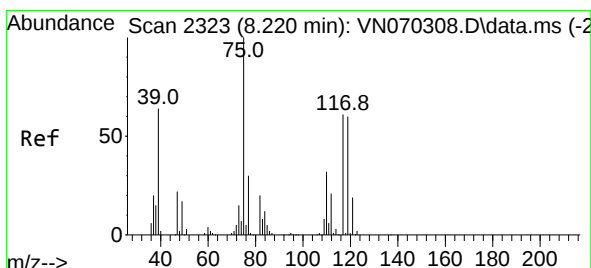
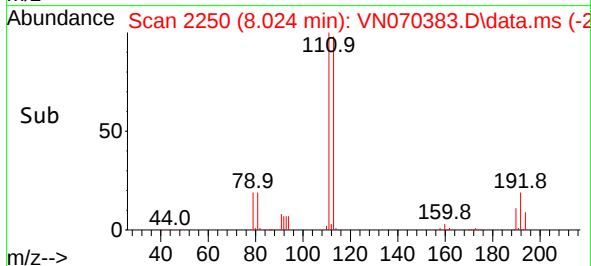
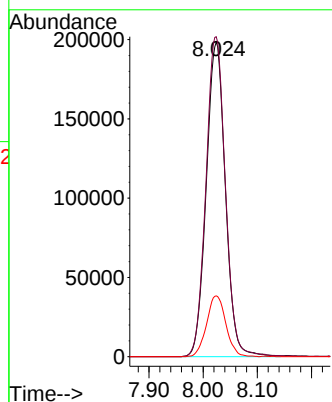
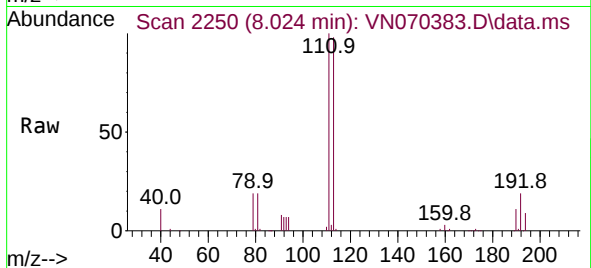
Tgt Ion:113 Resp: 486894

Ion Ratio Lower Upper

113 100

111 103.5 82.2 123.2

192 19.6 16.9 25.3



#36

1,1-Dichloropropene

Concen: 4.676 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.134 min

Lab File: VN070383.D

Acq: 30 Dec 2021 7:34

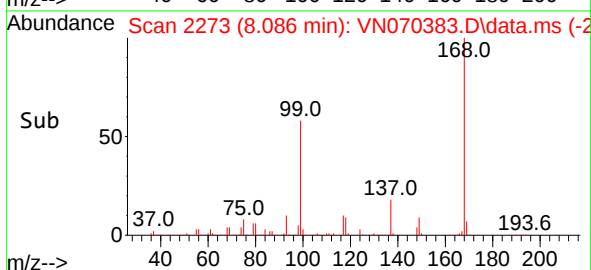
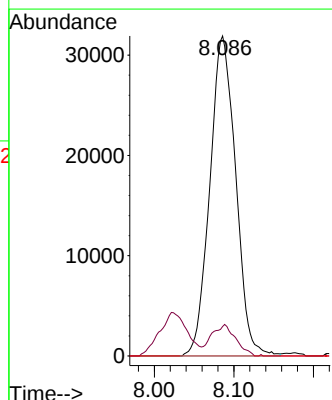
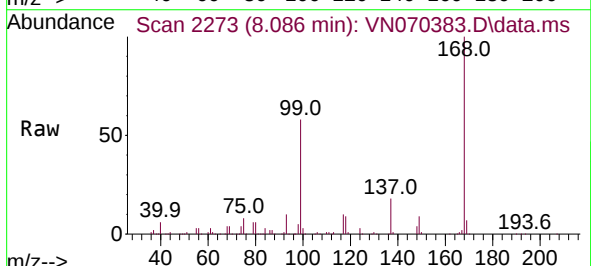
Tgt Ion: 75 Resp: 72116

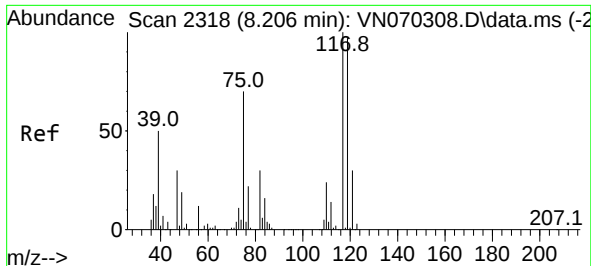
Ion Ratio Lower Upper

75 100

110 9.3 18.4 55.2#

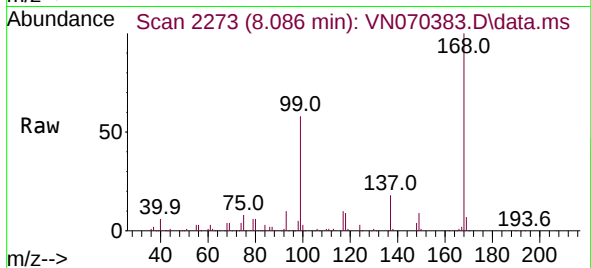
77 0.0 24.4 36.6#



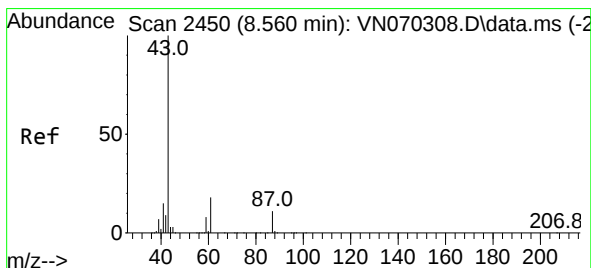
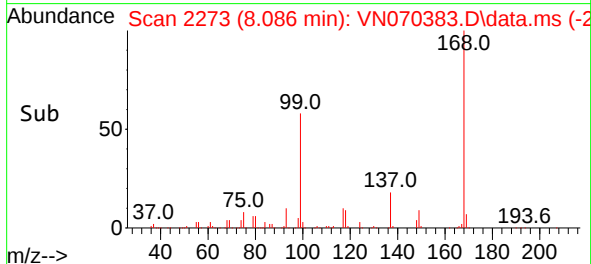
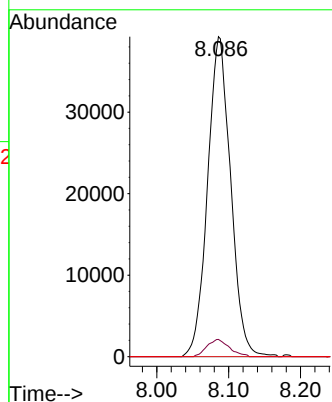


#38
Carbon Tetrachloride
Concen: 5.942 ug/l
RT: 8.086 min Scan# 2470
Delta R.T. -0.120 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

Instrument :
MSVOA_N
ClientSampleId :

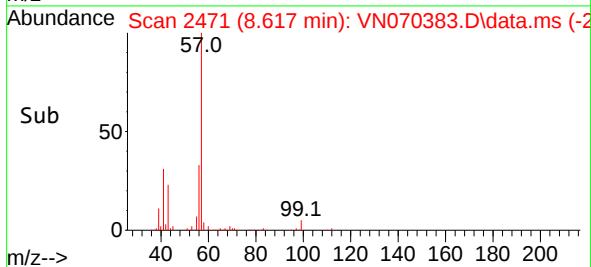
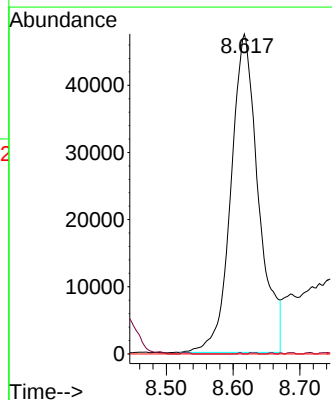
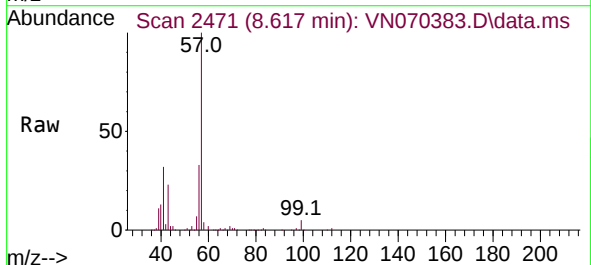


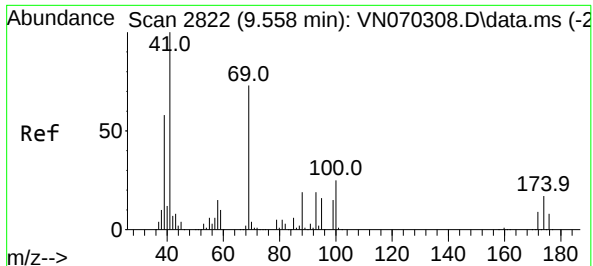
Tgt Ion:117 Resp: 87503
Ion Ratio Lower Upper
117 100
119 5.4 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 4.318 ug/l
RT: 8.617 min Scan# 2471
Delta R.T. 0.057 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

Tgt Ion: 43 Resp: 136084
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#

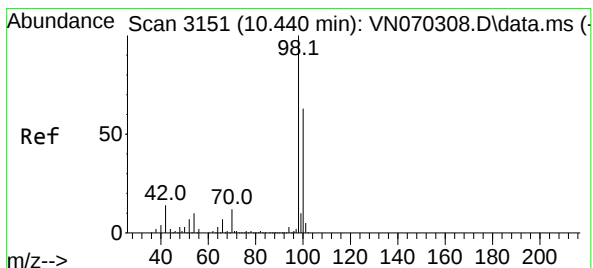
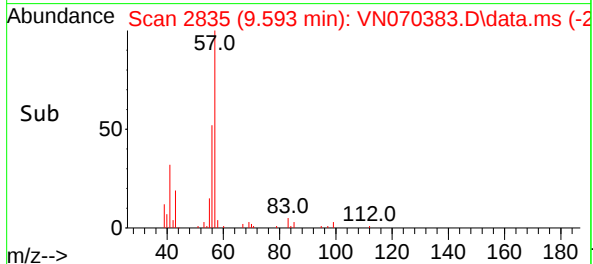
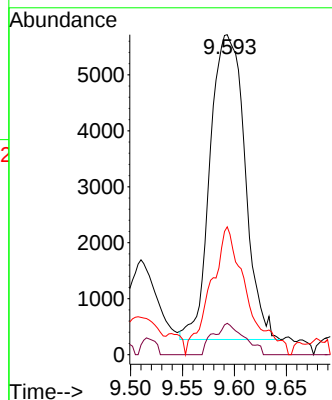
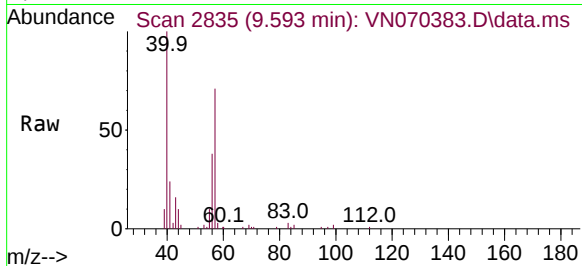




#48
Methyl methacrylate
Concen: 0.842 ug/l
RT: 9.593 min Scan# 21
Delta R.T. 0.035 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

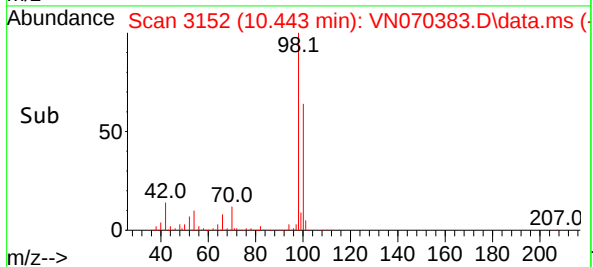
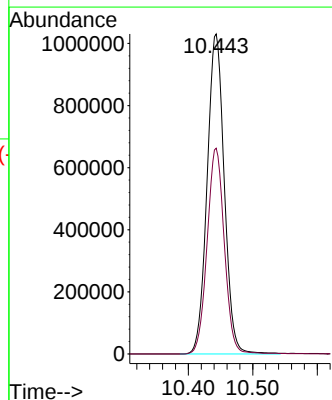
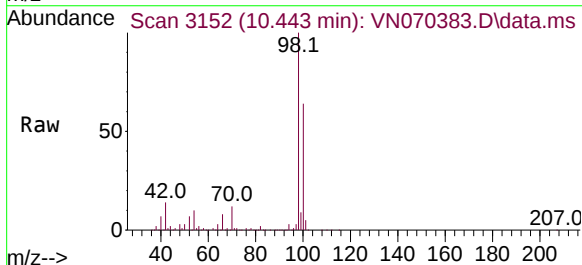
Instrument :
MSVOA_N
ClientSampleId :

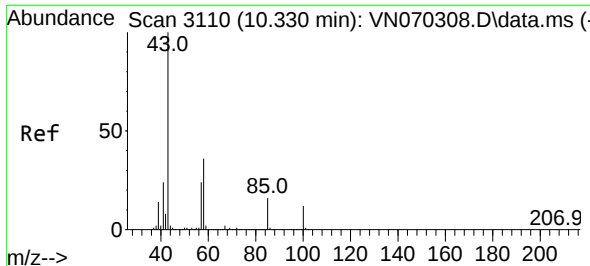
Tgt Ion: 41 Resp: 12660
Ion Ratio Lower Upper
41 100
69 9.1 72.4 108.6#
39 43.1 58.4 87.6#



#50
Toluene-d8
Concen: 50.094 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

Tgt Ion: 98 Resp: 1907793
Ion Ratio Lower Upper
98 100
100 64.2 50.4 75.6

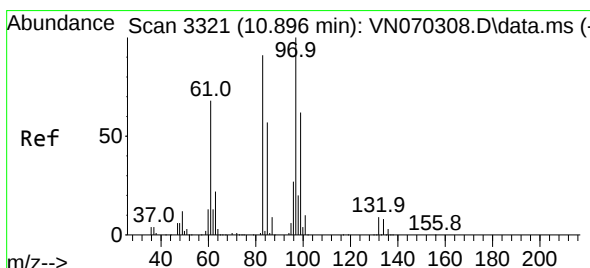
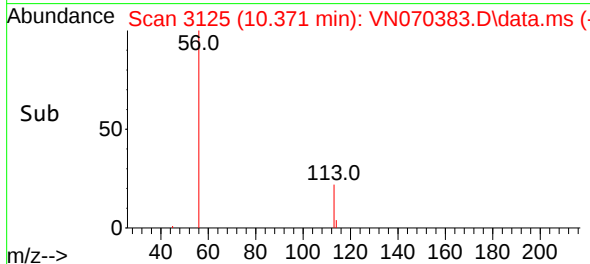
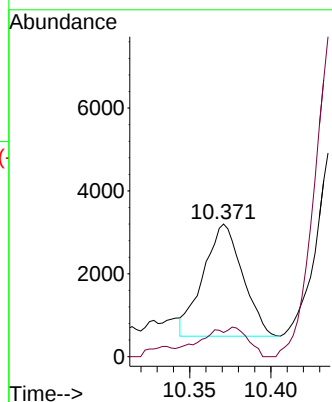
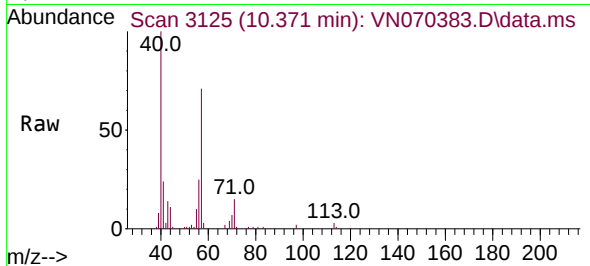




#51
4-Methyl-2-Pentanone
Concen: 0.230 ug/l
RT: 10.371 min Scan# 3110
Delta R.T. 0.041 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

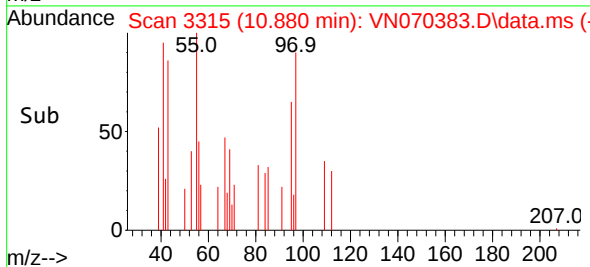
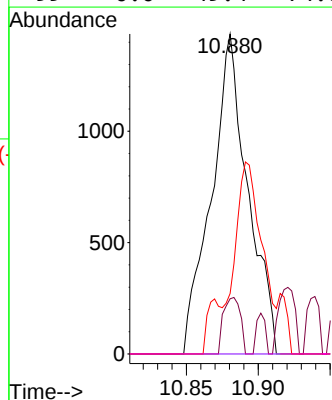
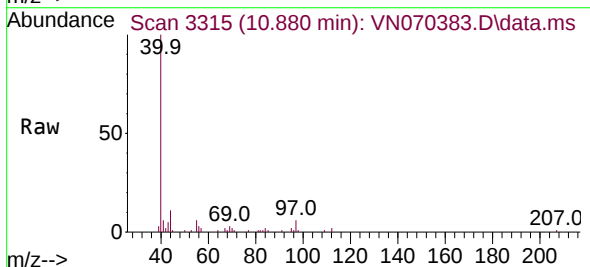
Instrument :
MSVOA_N
ClientSampleId :

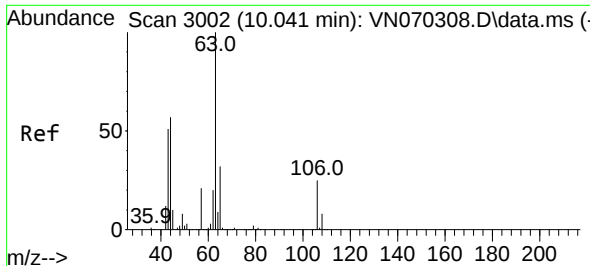
Tgt Ion: 43 Resp: 4555
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#



#55
1,1,2-Trichloroethane
Concen: 0.223 ug/l
RT: 10.880 min Scan# 3315
Delta R.T. -0.016 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

Tgt Ion: 97 Resp: 2527
Ion Ratio Lower Upper
97 100
83 17.3 67.8 101.6#
85 18.9 45.4 68.2#
99 0.0 49.4 74.0#

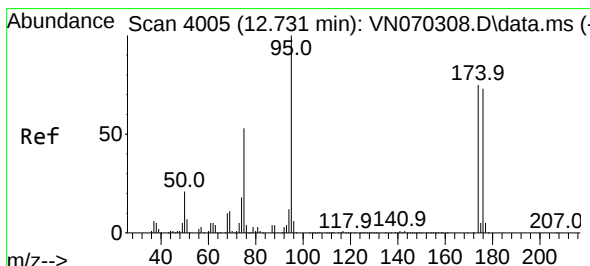
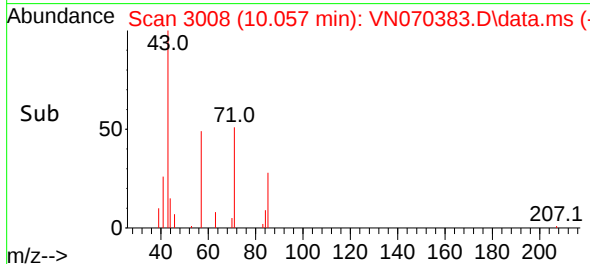
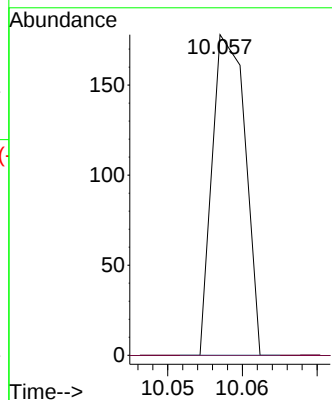
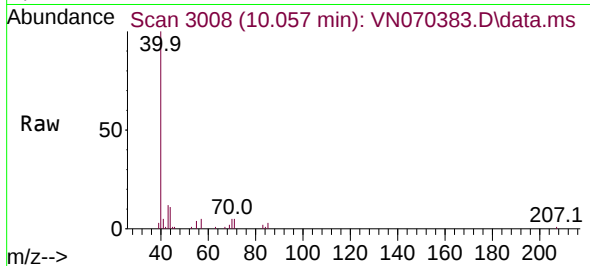




#58
2-Chloroethyl Vinyl ether
Concen: 18.524 ug/l
RT: 10.057 min Scan# 3008
Delta R.T. 0.016 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

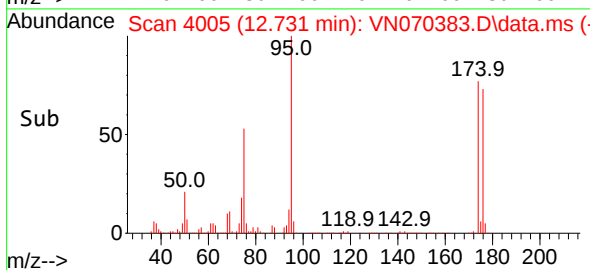
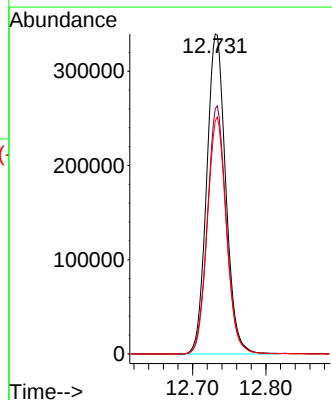
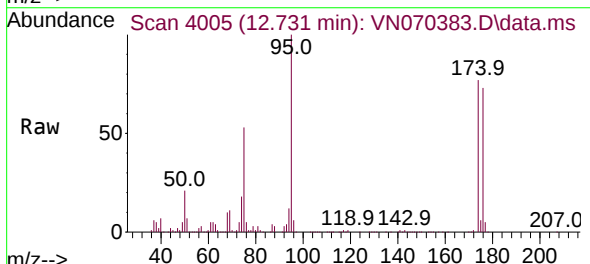
Instrument :
MSVOA_N
ClientSampleId :

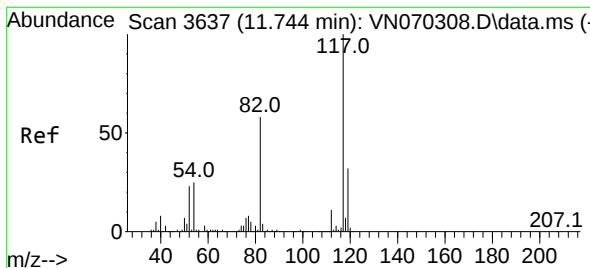
Tgt Ion: 63 Resp: 55
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#62
4-Bromofluorobenzene
Concen: 44.533 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

Tgt Ion: 95 Resp: 612563
Ion Ratio Lower Upper
95 100
174 77.2 0.0 187.2
176 74.0 0.0 181.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.744 min Scan# 30

Delta R.T. -0.000 min

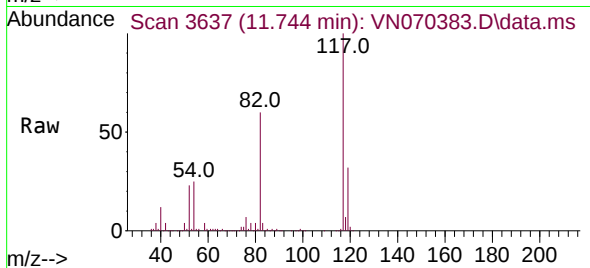
Lab File: VN070383.D

Acq: 30 Dec 2021 7:34

Instrument :

MSVOA_N

ClientSampleId :



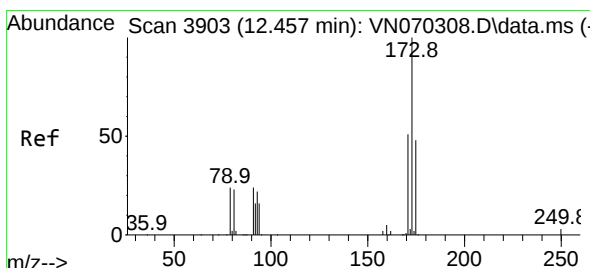
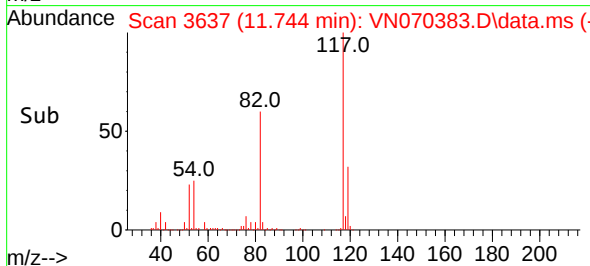
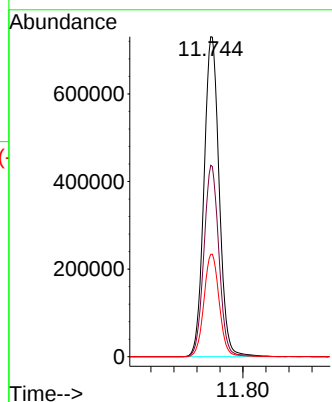
Tgt Ion:117 Resp: 1339582

Ion Ratio Lower Upper

117 100

82 59.8 42.4 63.6

119 32.0 25.4 38.2



#71

Bromoform

Concen: 0.234 ug/l

RT: 12.726 min Scan# 4003

Delta R.T. 0.269 min

Lab File: VN070383.D

Acq: 30 Dec 2021 7:34

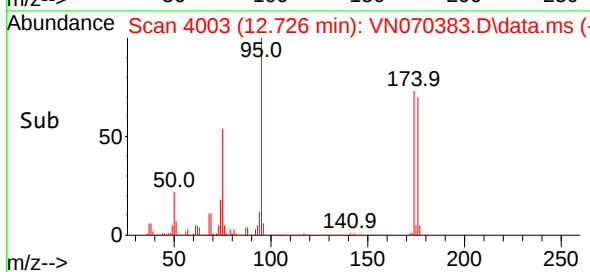
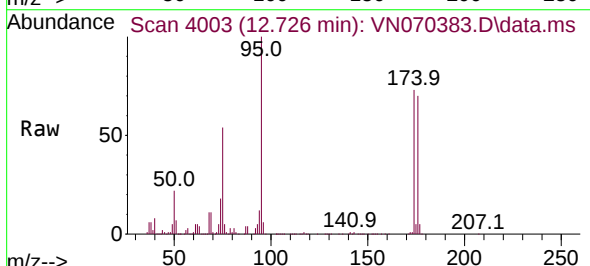
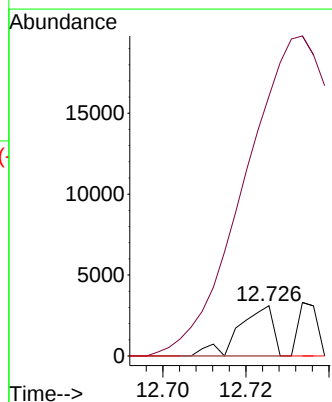
Tgt Ion:173 Resp: 1762

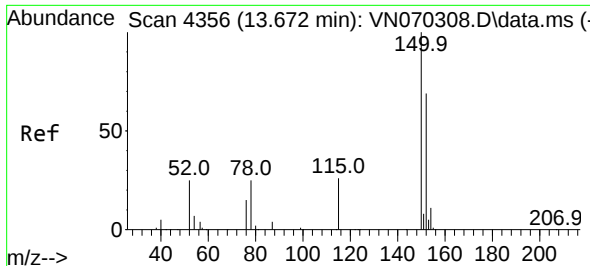
Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

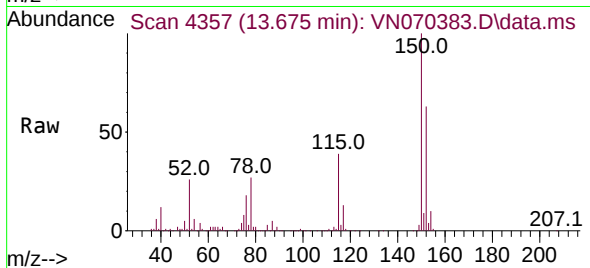
254 0.0 0.0 0.0



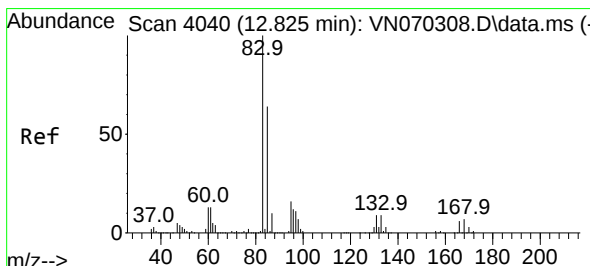
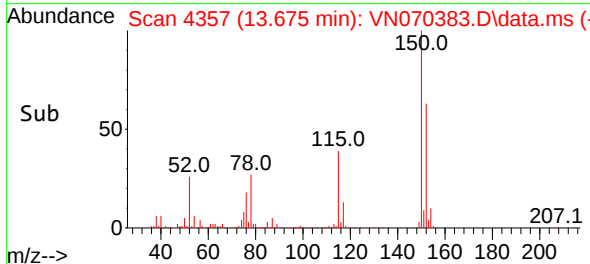
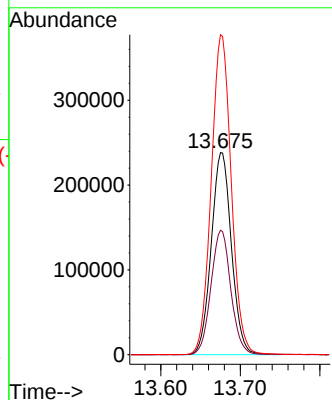


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.675 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VN070383.D
 Acq: 30 Dec 2021 7:34

Instrument :
 MSVOA_N
 ClientSampleId :

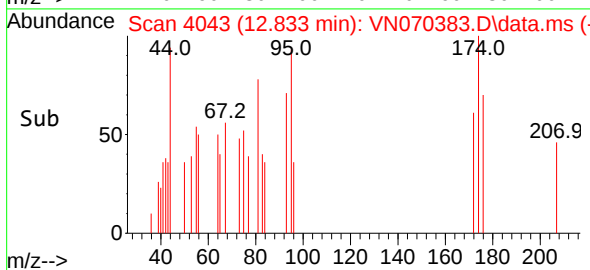
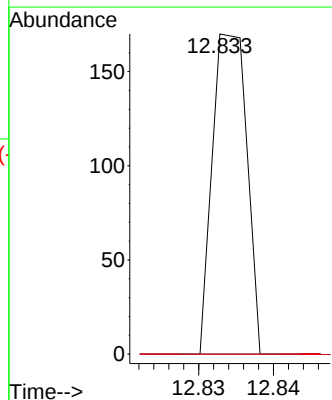
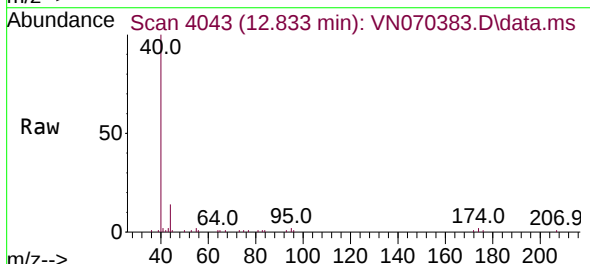


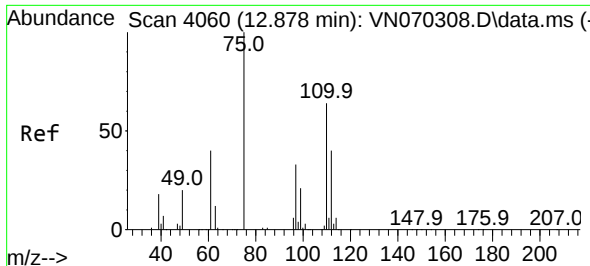
Tgt Ion:152 Resp: 420815
 Ion Ratio Lower Upper
 152 100
 115 60.6 27.5 82.5
 150 157.1 0.0 344.4



#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.451 ug/l
 RT: 12.833 min Scan# 4043
 Delta R.T. 0.008 min
 Lab File: VN070383.D
 Acq: 30 Dec 2021 7:34

Tgt Ion: 83 Resp: 54
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.5 16.5#
 85 0.0 32.4 97.2#

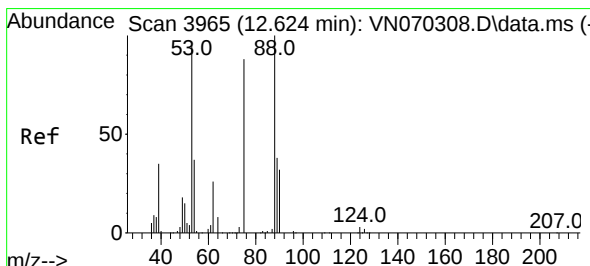
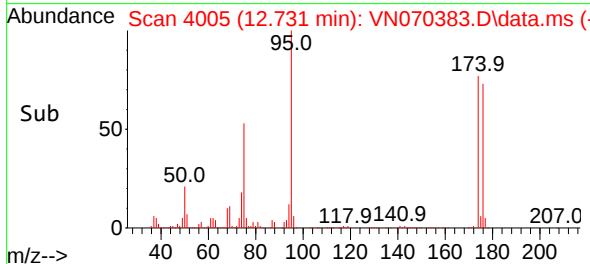
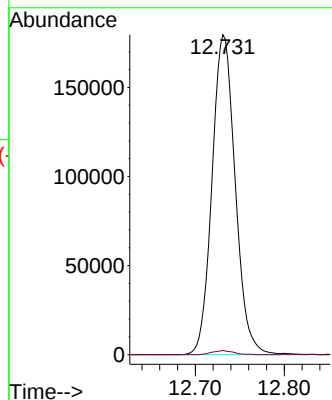
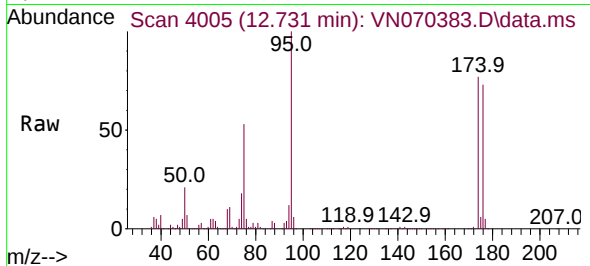




#76
1,2,3-Trichloropropane
Concen: 27.412 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.147 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

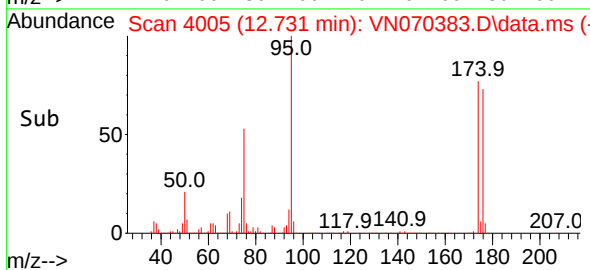
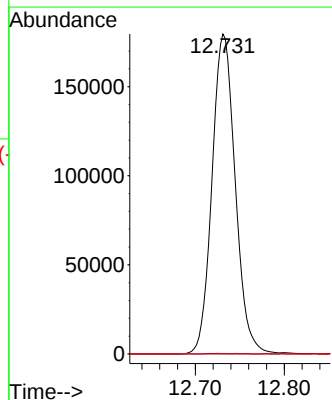
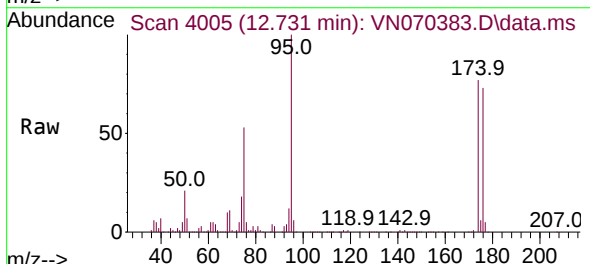
Instrument :
MSVOA_N
ClientSampleId :

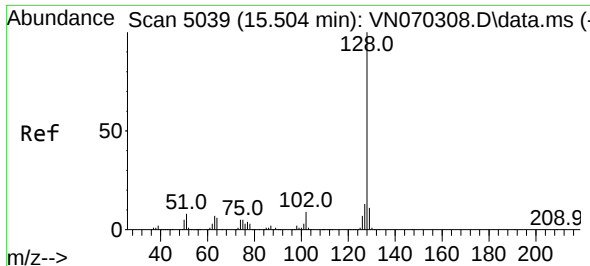
Tgt Ion: 75 Resp: 325232
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 94.426 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.107 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

Tgt Ion: 75 Resp: 325232
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

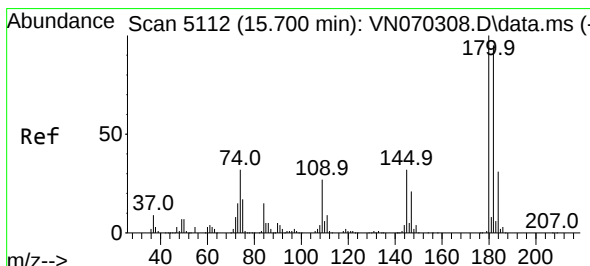
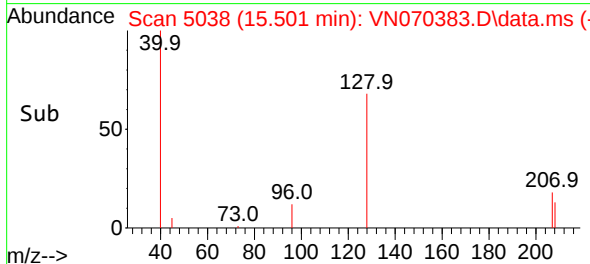
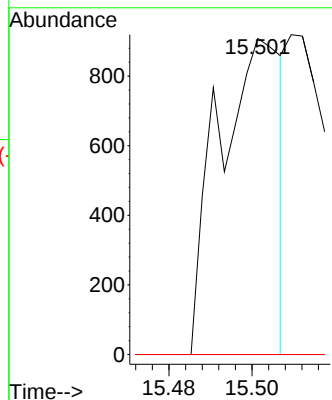
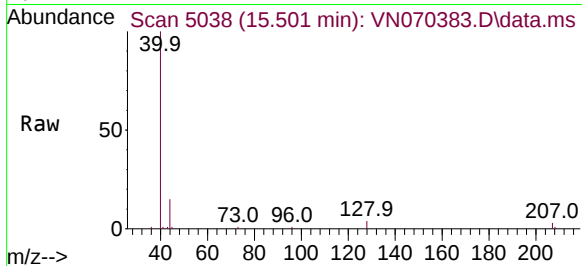




#95
Naphthalene
Concen: 1.844 ug/l
RT: 15.501 min Scan# 5109
Delta R.T. -0.003 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 944
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.833 ug/l
RT: 15.692 min Scan# 5109
Delta R.T. -0.008 min
Lab File: VN070383.D
Acq: 30 Dec 2021 7:34

Tgt Ion:180 Resp: 50
Ion Ratio Lower Upper
180 100
182 462.0 47.4 142.2#
145 0.0 15.0 45.1#

