

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100924\
 Data File : VN084371.D
 Acq On : 09 Oct 2024 16:44
 Operator : JC\MD
 Sample : P4340-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 10 01:23:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	187677	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	333524	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	281234	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	110263	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	133201	47.868	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.740%
35) Dibromofluoromethane	8.165	113	103428	47.038	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.080%
50) Toluene-d8	10.565	98	394899	48.816	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.640%
62) 4-Bromofluorobenzene	12.847	95	135154	45.860	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	91.720%

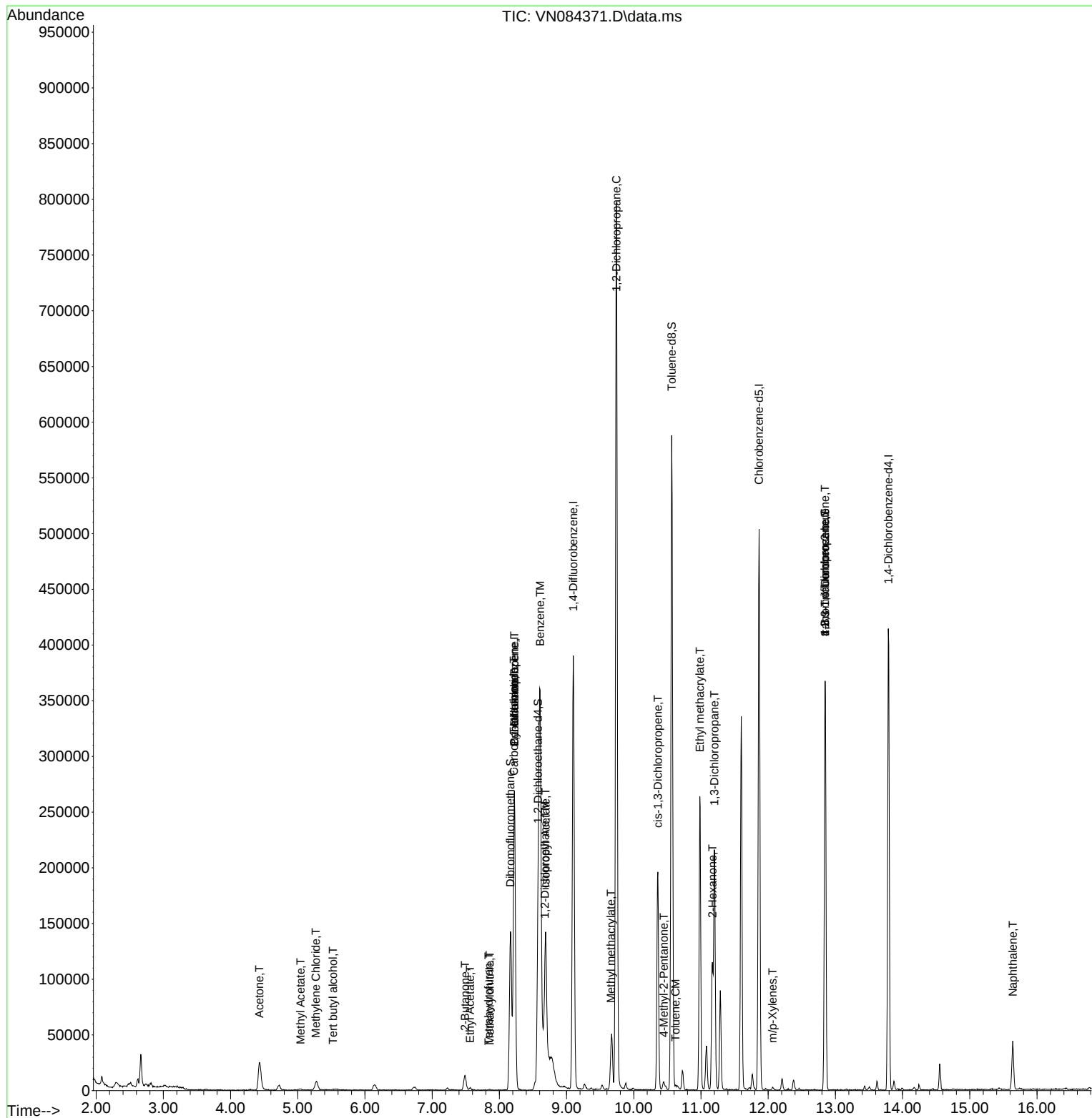
Target Compounds						Qvalue
11) Tert butyl alcohol	5.524	59	647	1.410	ug/l #	73
16) Acetone	4.430	43	48749	40.781	ug/l	94
18) Methyl Acetate	5.042	43	2417	0.928	ug/l #	62
20) Methylene Chloride	5.271	84	3257	1.340	ug/l #	88
25) 2-Butanone	7.489	43	22208	13.640	ug/l	99
29) Tetrahydrofuran	7.841	42	654	0.651	ug/l #	48
31) Cyclohexane	8.224	56	4397	1.067	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	16198	5.072	ug/l #	49
37) Ethyl Acetate	7.565	43	3580	1.093	ug/l #	83
38) Carbon Tetrachloride	8.218	117	20773	5.929	ug/l #	14
40) Benzene	8.606	78	340973	34.266	ug/l	98
41) Methacrylonitrile	7.859	41	414	0.233	ug/l #	24
42) 1,2-Dichloroethane	8.677	62	1251	0.371	ug/l #	75
43) Isopropyl Acetate	8.688	43	209831	32.695	ug/l #	78
45) 1,2-Dichloropropane	9.741	63	902	0.383	ug/l #	44
48) Methyl methacrylate	9.659	41	3567	1.396	ug/l #	42
51) 4-Methyl-2-Pentanone	10.447	43	9223	2.957	ug/l #	69
52) Toluene	10.624	92	1774	0.292	ug/l	84
54) cis-1,3-Dichloropropene	10.359	75	36358	9.396	ug/l #	63
56) Ethyl methacrylate	10.982	69	1186	0.331	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	2328	0.599	ug/l #	42
59) 2-Hexanone	11.171	43	124298	53.317	ug/l #	24
68) m/p-Xylenes	12.065	106	979	0.240	ug/l	82
76) 1,2,3-Trichloropropane	12.847	75	69457	30.855	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69457	73.974	ug/l #	11
95) Naphthalene	15.641	128	41487	6.805	ug/l	98

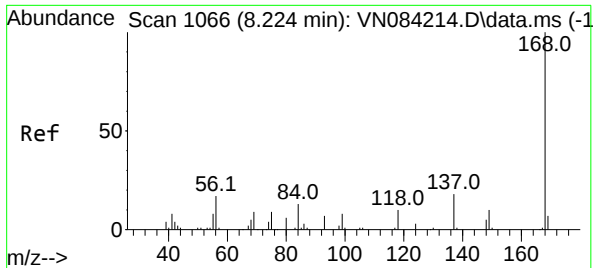
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

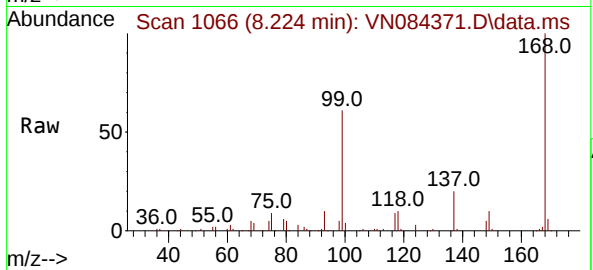
Quant Time: Oct 10 01:23:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



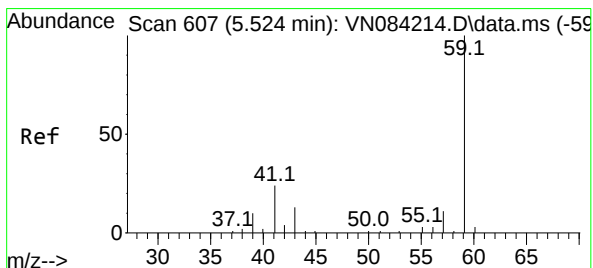
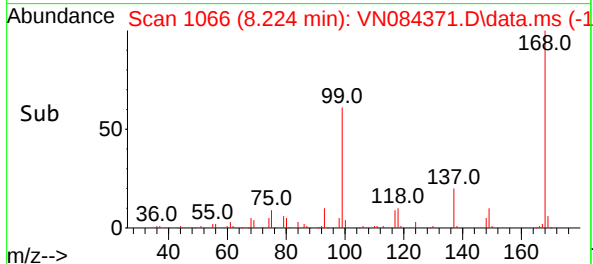
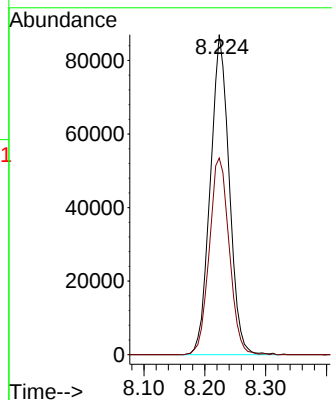


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

Instrument :
MSVOA_N
ClientSampleId :

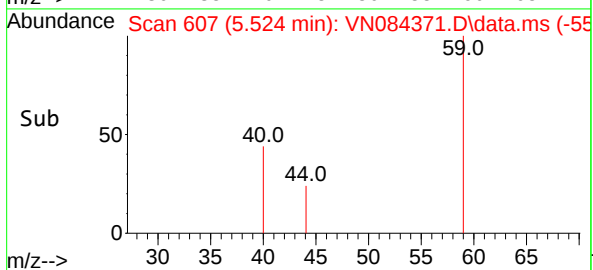
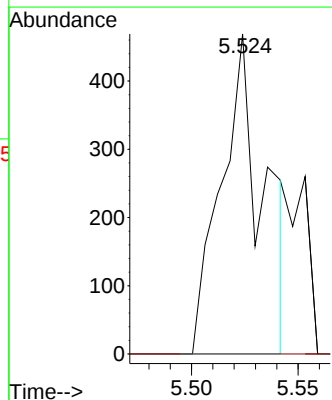
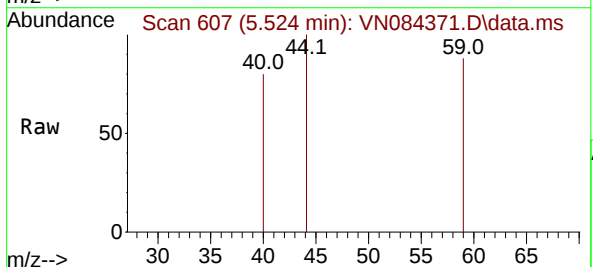


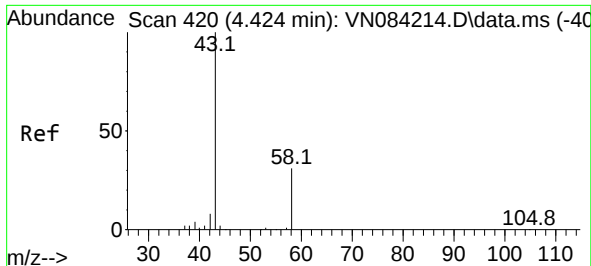
Tgt Ion:168 Resp: 187677
Ion Ratio Lower Upper
168 100
99 61.4 54.2 81.2



#11
Tert butyl alcohol
Concen: 1.410 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.000 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

Tgt Ion: 59 Resp: 647
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

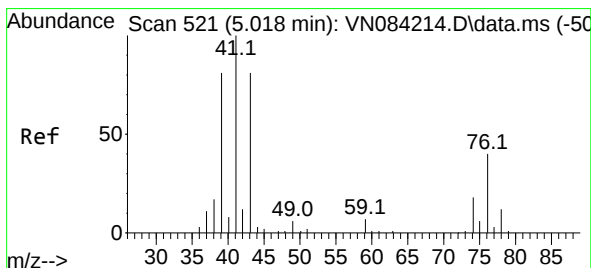
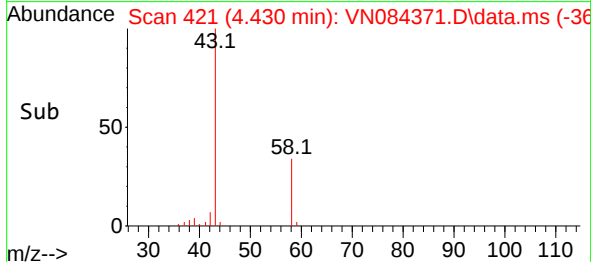
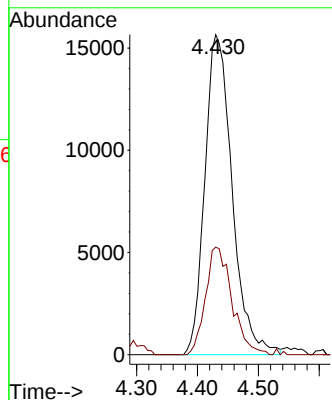
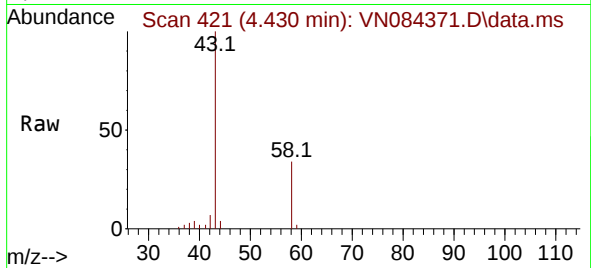




#16
Acetone
Concen: 40.781 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

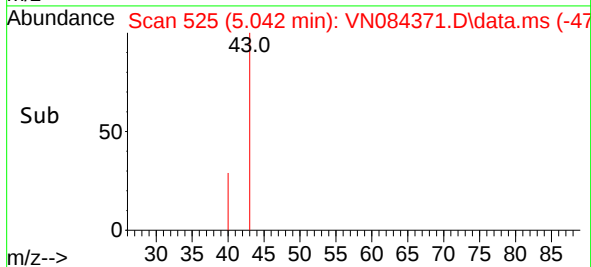
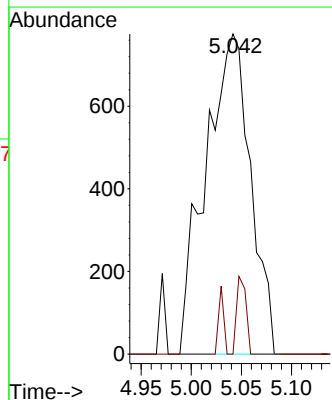
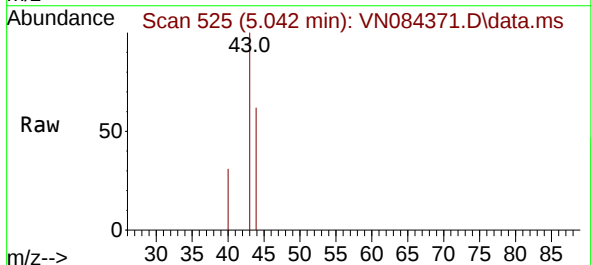
Instrument :
MSVOA_N
ClientSampleId :

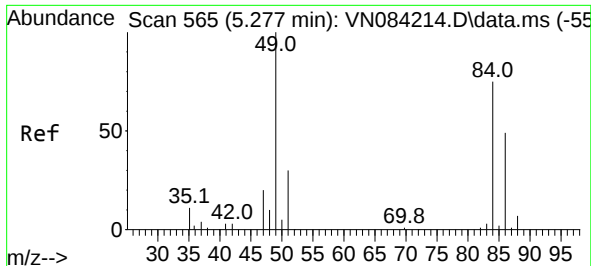
Tgt Ion: 43 Resp: 48749
Ion Ratio Lower Upper
43 100
58 33.6 24.4 36.6



#18
Methyl Acetate
Concen: 0.928 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.024 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

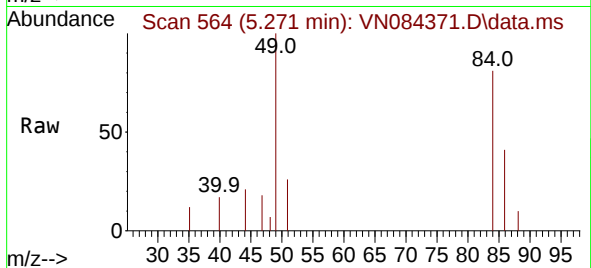
Tgt Ion: 43 Resp: 2417
Ion Ratio Lower Upper
43 100
74 5.0 19.2 28.8#



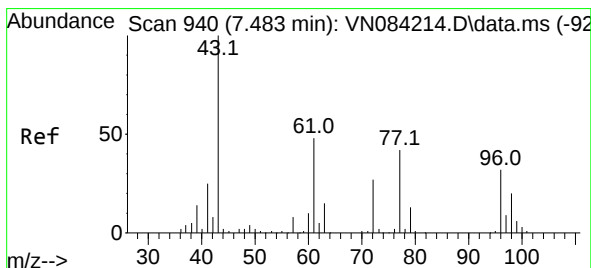
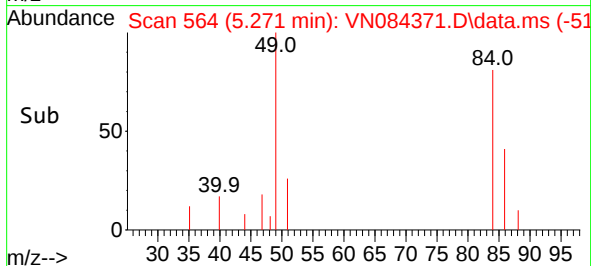
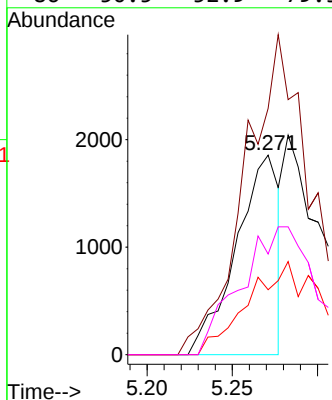


#20
Methylene Chloride
Concen: 1.340 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

Instrument :
MSVOA_N
ClientSampleId :

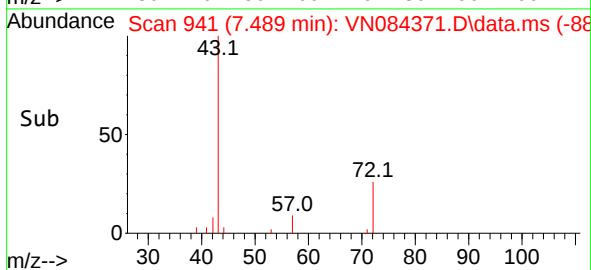
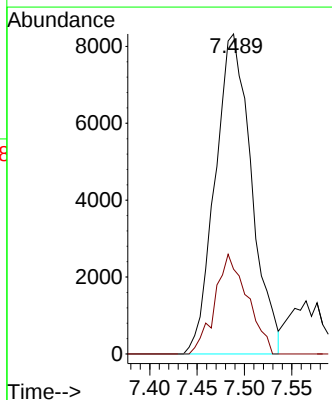
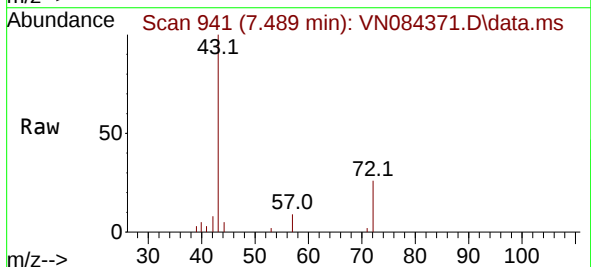


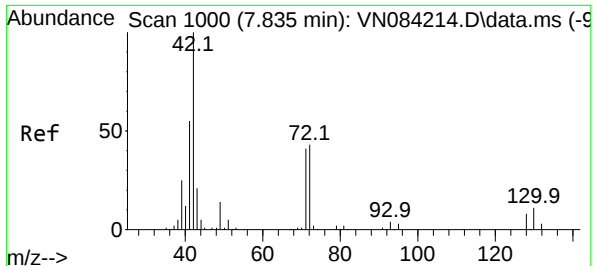
Tgt Ion:	84	Resp:	3257
Ion	Ratio	Lower	Upper
84	100		
49	123.4	107.2	160.8
51	32.6	31.8	47.8
86	50.5	52.9	79.3



#25
2-Butanone
Concen: 13.640 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

Tgt Ion:	43	Resp:	22208
Ion	Ratio	Lower	Upper
43	100		
72	26.5	21.4	32.2





#29

Tetrahydrofuran

Concen: 0.651 ug/l

RT: 7.841 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN084371.D

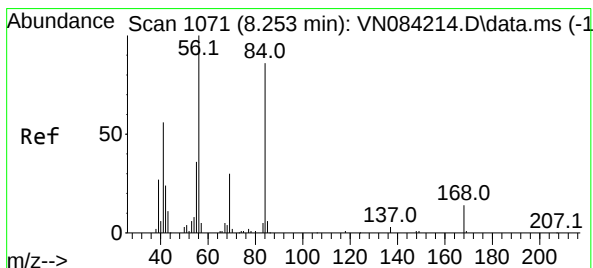
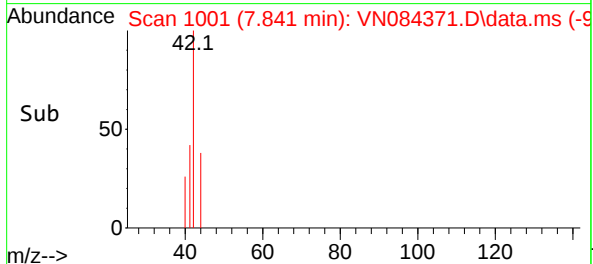
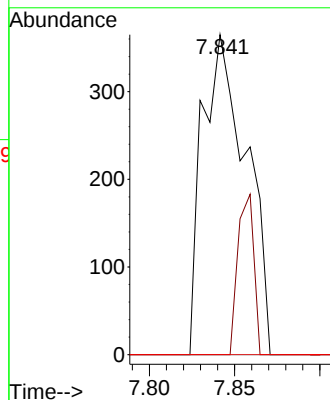
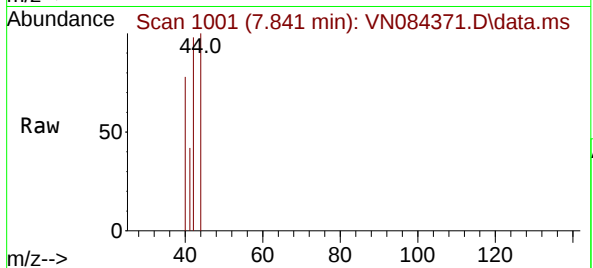
Acq: 09 Oct 2024 16:44

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	42	Resp:	654
Ion	Ratio	Lower	Upper
42	100		
72	18.2	34.6	51.8#
71	0.0	32.2	48.4#



#31

Cyclohexane

Concen: 1.067 ug/l

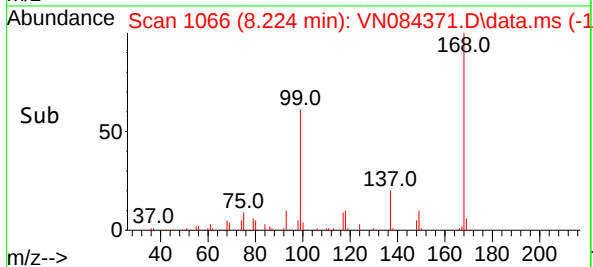
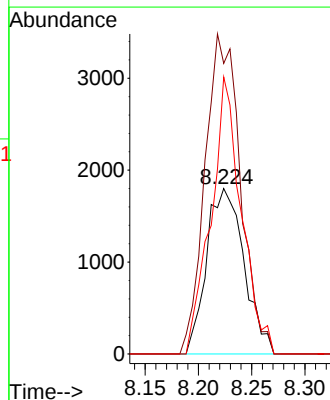
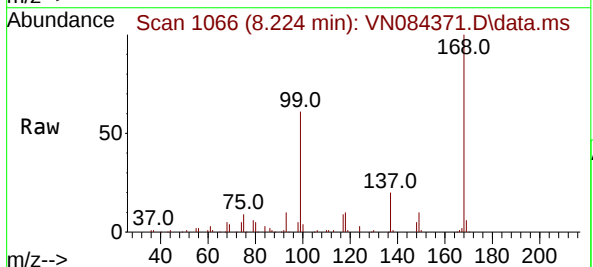
RT: 8.224 min Scan# 1066

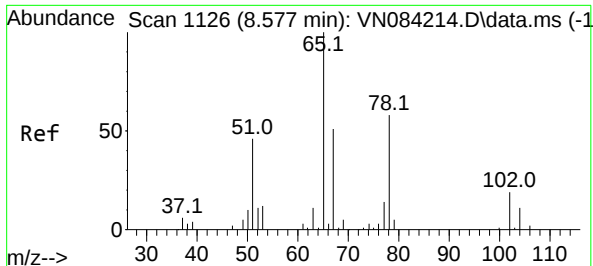
Delta R.T. -0.029 min

Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

Tgt Ion:	56	Resp:	4397
Ion	Ratio	Lower	Upper
56	100		
69	175.5	23.8	35.6#
84	167.4	68.8	103.2#





#33

1,2-Dichloroethane-d4

Concen: 47.868 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

Instrument :

MSVOA_N

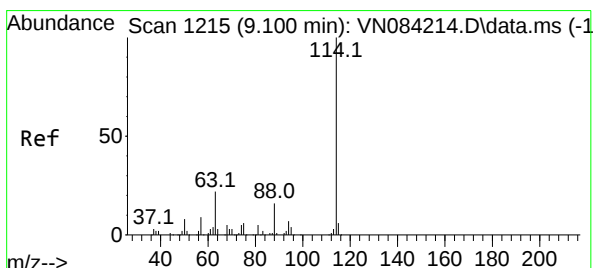
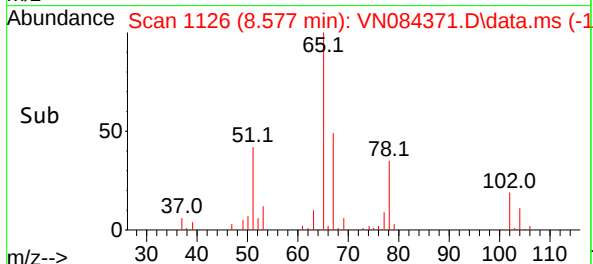
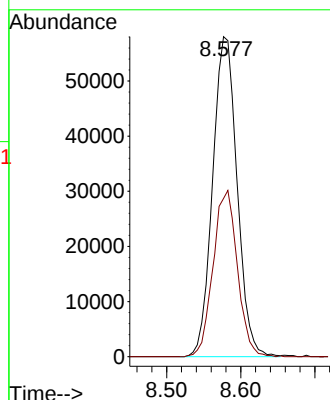
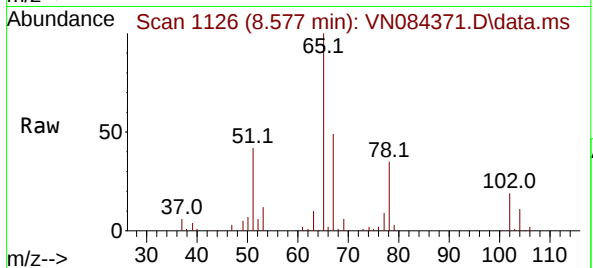
ClientSampleId :

Tgt Ion: 65 Resp: 133201

Ion Ratio Lower Upper

65 100

67 51.5 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

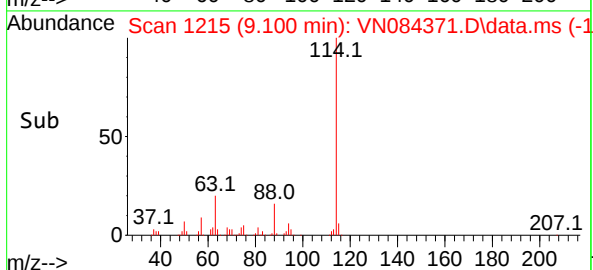
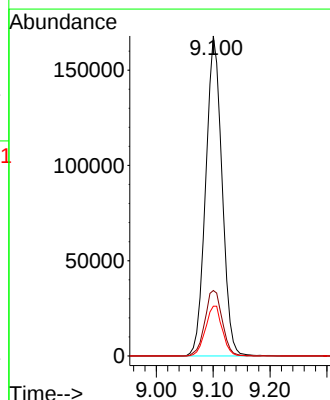
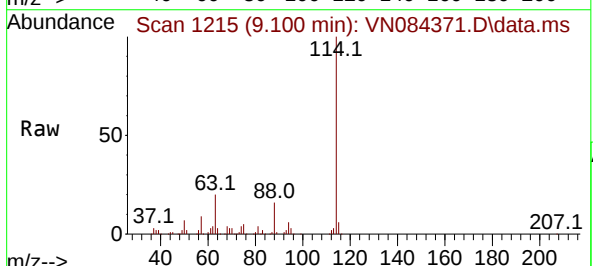
Tgt Ion: 114 Resp: 333524

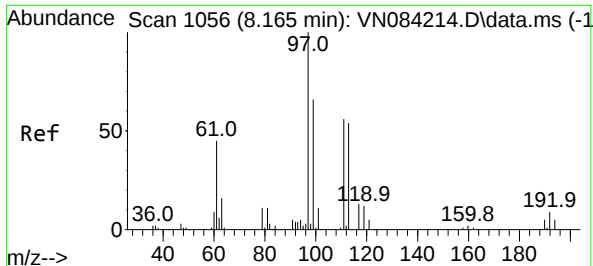
Ion Ratio Lower Upper

114 100

63 20.5 0.0 43.8

88 15.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.038 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

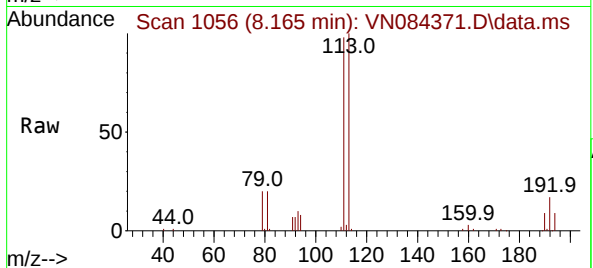
Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

Instrument :

MSVOA_N

ClientSampleId :



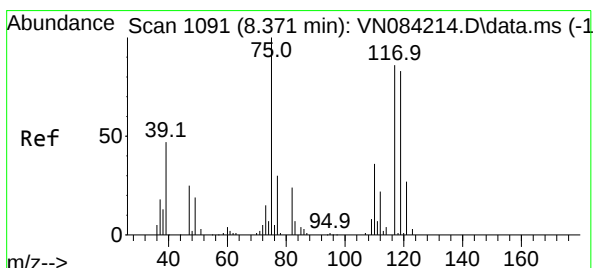
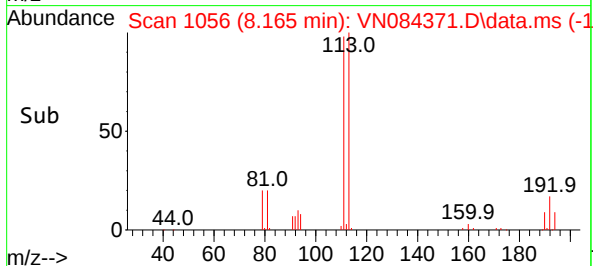
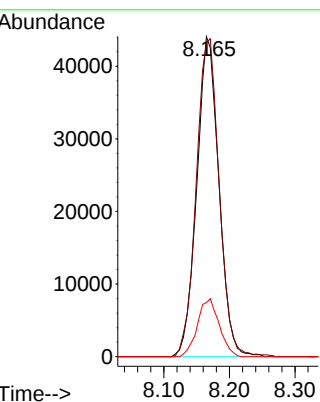
Tgt Ion:113 Resp: 103428

Ion Ratio Lower Upper

113 100

111 102.7 83.3 124.9

192 17.8 13.5 20.3



#36

1,1-Dichloropropene

Concen: 5.072 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

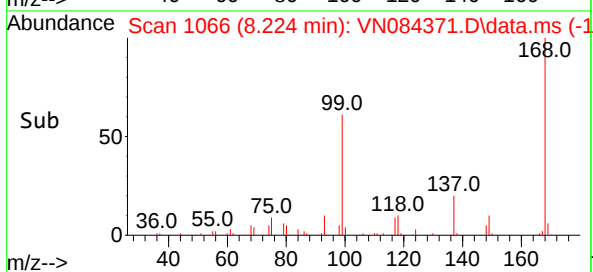
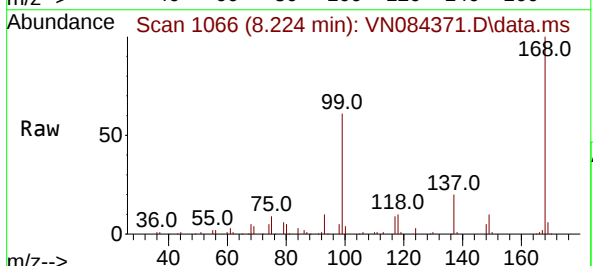
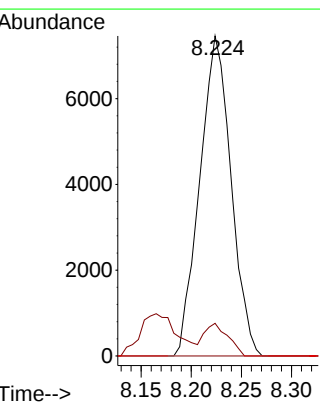
Tgt Ion: 75 Resp: 16198

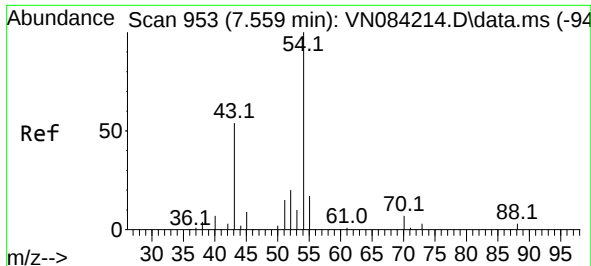
Ion Ratio Lower Upper

75 100

110 7.7 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.093 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

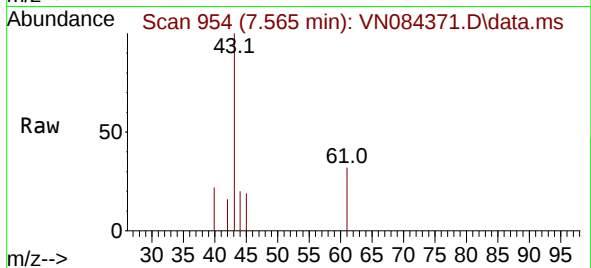
Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

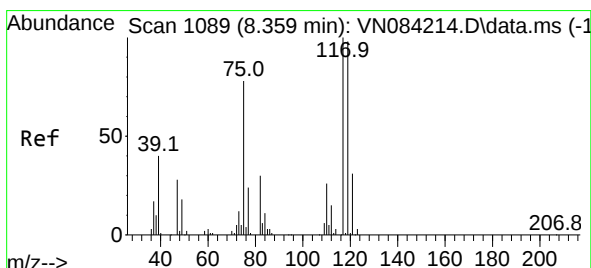
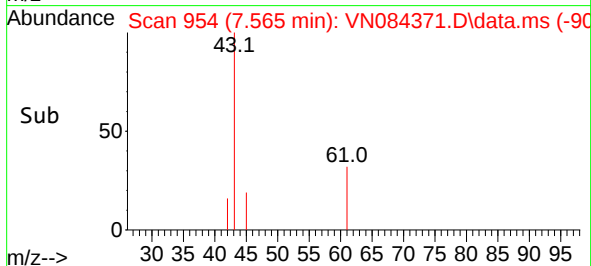
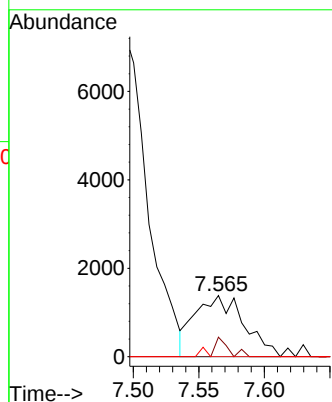
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	3580
Ion	Ratio	Lower	Upper
43	100		
61	8.5	10.7	16.1#
70	2.1	8.8	13.2#



#38

Carbon Tetrachloride

Concen: 5.929 ug/l

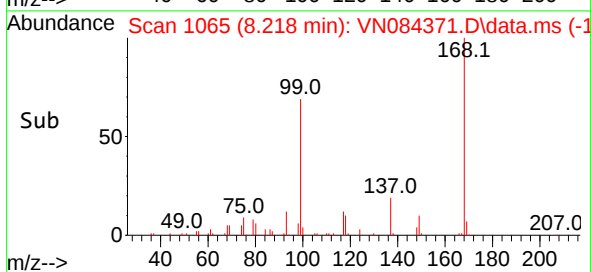
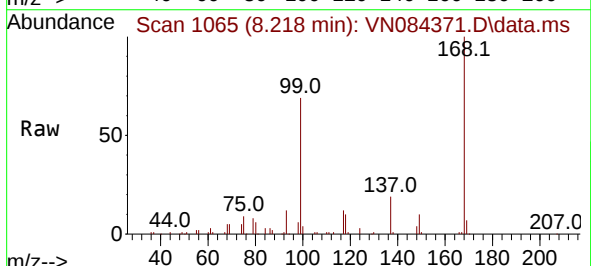
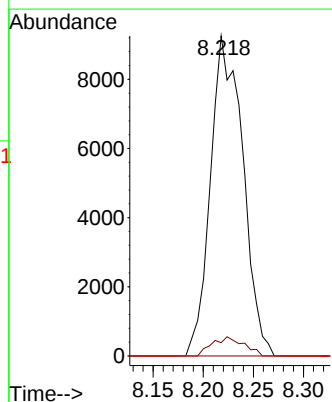
RT: 8.218 min Scan# 1065

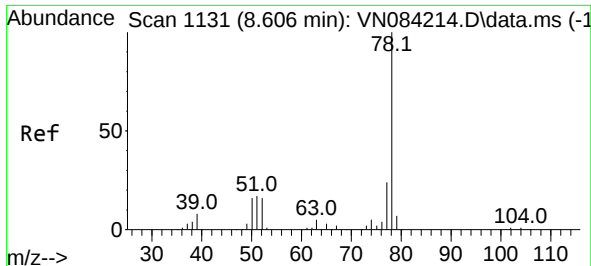
Delta R.T. -0.141 min

Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

Tgt Ion:	117	Resp:	20773
Ion	Ratio	Lower	Upper
117	100		
119	4.1	78.7	118.1#
121	0.0	24.4	36.6#





#40

Benzene

Concen: 34.266 ug/l

RT: 8.606 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

Instrument :

MSVOA_N

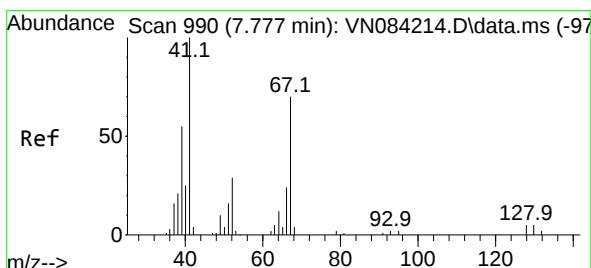
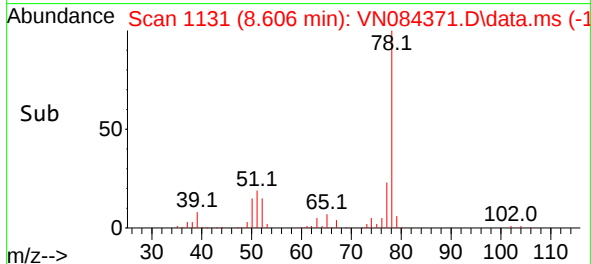
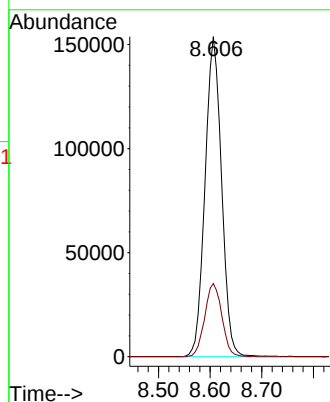
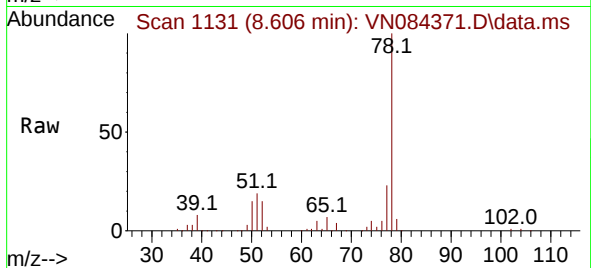
ClientSampleId :

Tgt Ion: 78 Resp: 340973

Ion Ratio Lower Upper

78 100

77 22.8 19.1 28.7



#41

Methacrylonitrile

Concen: 0.233 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.082 min

Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

Tgt Ion: 41 Resp: 414

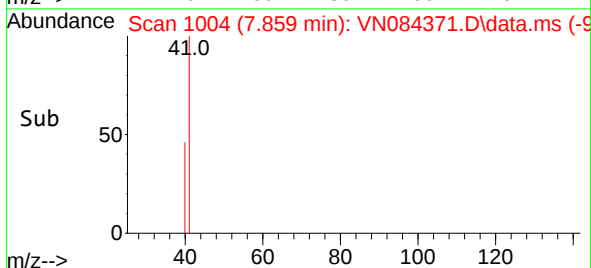
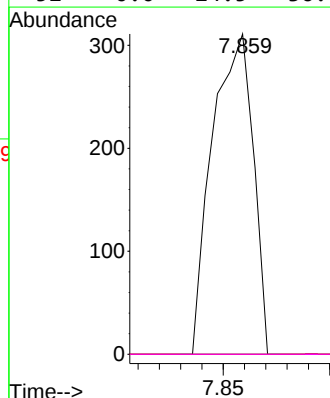
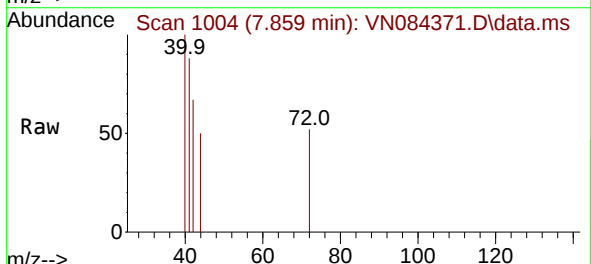
Ion Ratio Lower Upper

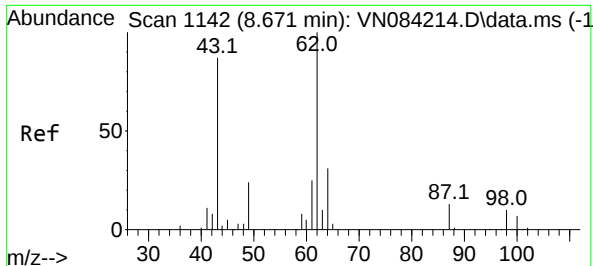
41 100

39 0.0 43.3 64.9#

67 0.0 56.1 84.1#

52 0.0 24.5 36.7#





#42

1,2-Dichloroethane

Concen: 0.371 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

Instrument :

MSVOA_N

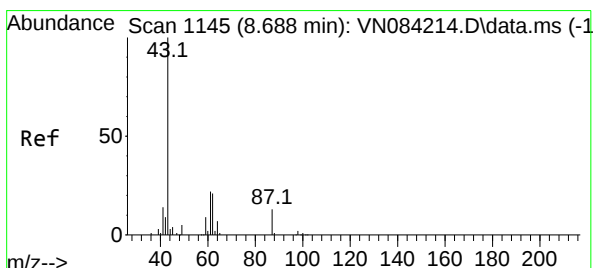
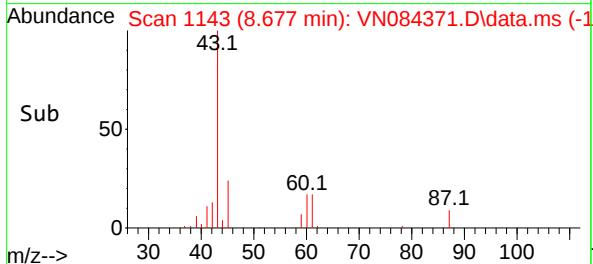
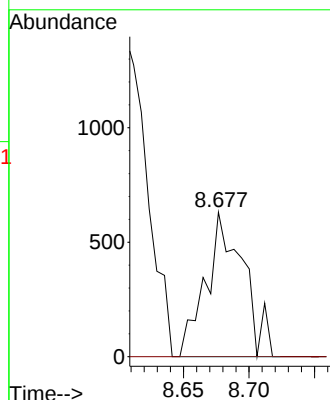
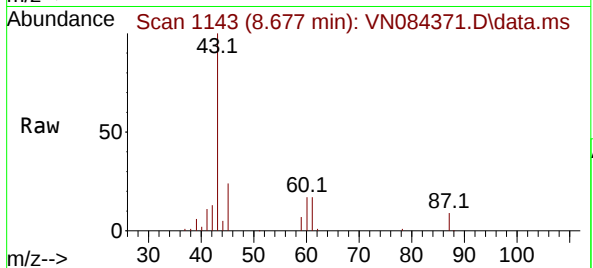
ClientSampleId :

Tgt Ion: 62 Resp: 1251

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 32.695 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

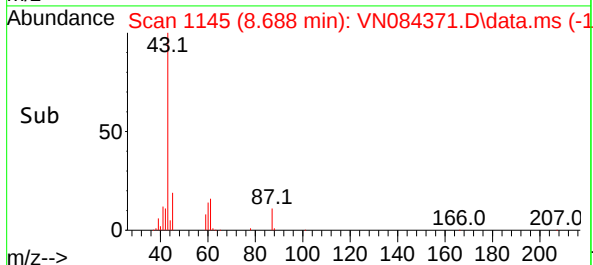
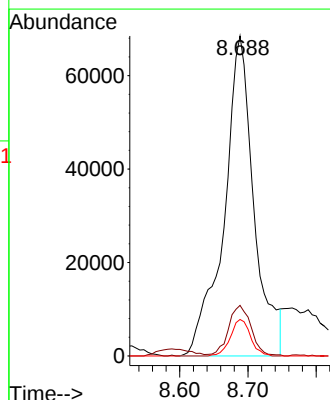
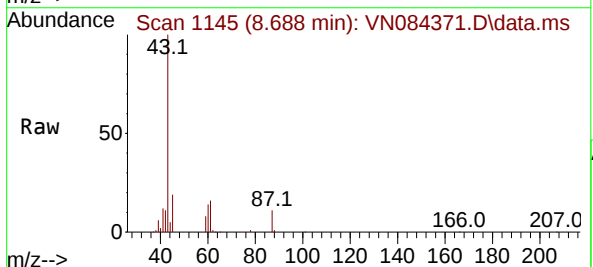
Tgt Ion: 43 Resp: 209831

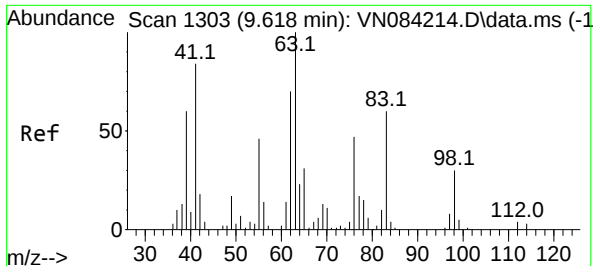
Ion Ratio Lower Upper

43 100

61 12.0 20.4 30.6#

87 7.6 10.3 15.5#

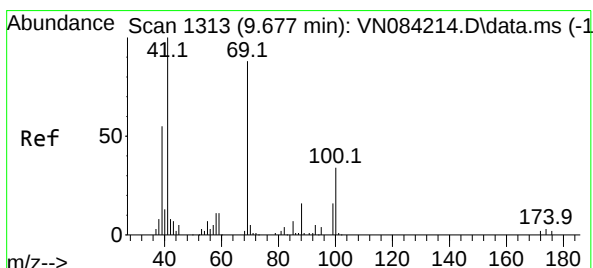
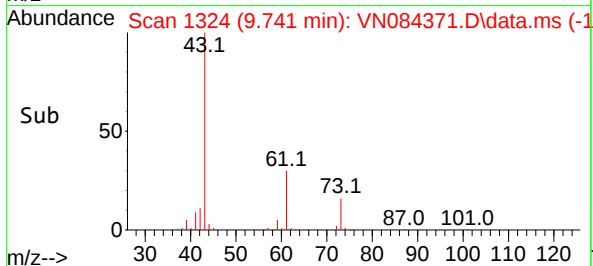
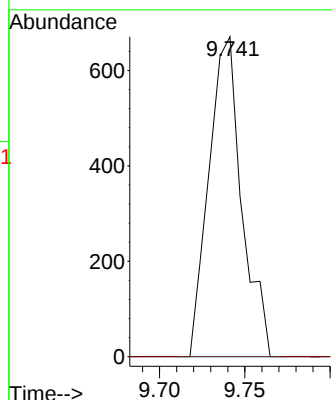
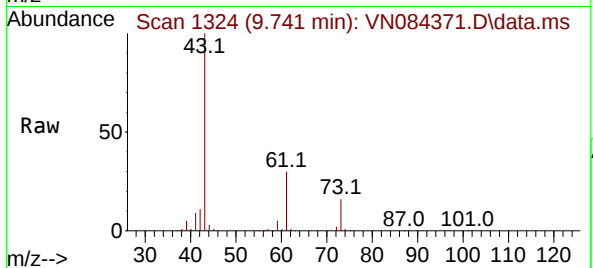




#45
1,2-Dichloropropane
Concen: 0.383 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.124 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

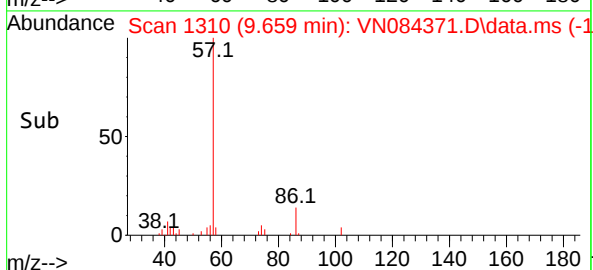
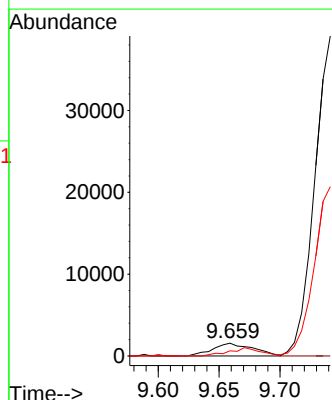
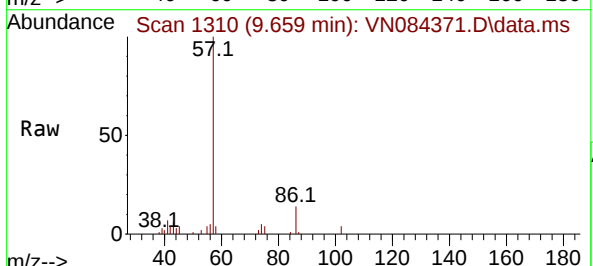
Instrument :
MSVOA_N
ClientSampleId :

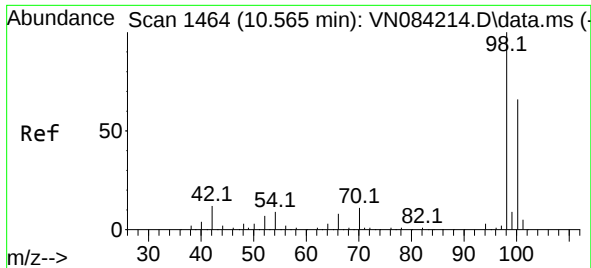
Tgt Ion: 63 Resp: 902
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#



#48
Methyl methacrylate
Concen: 1.396 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.018 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

Tgt Ion: 41 Resp: 3567
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 51.0 45.8 68.6

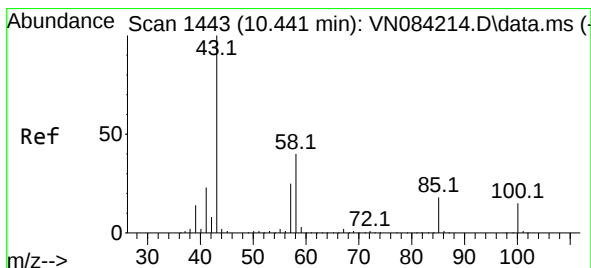
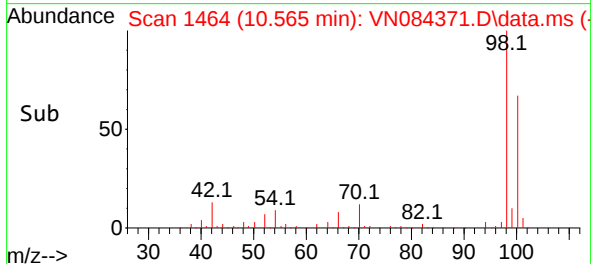
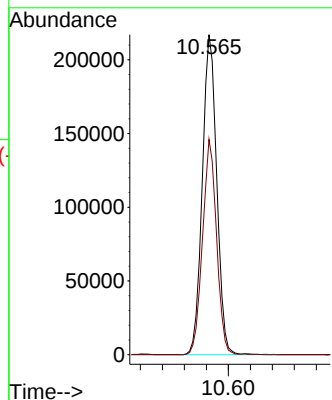
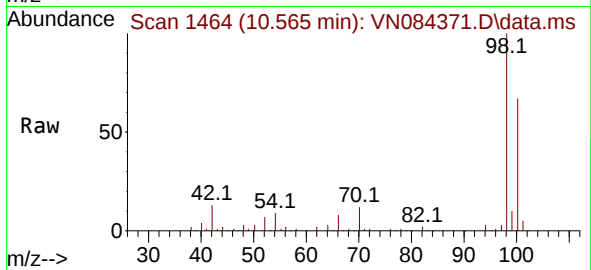




#50
Toluene-d8
Concen: 48.816 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

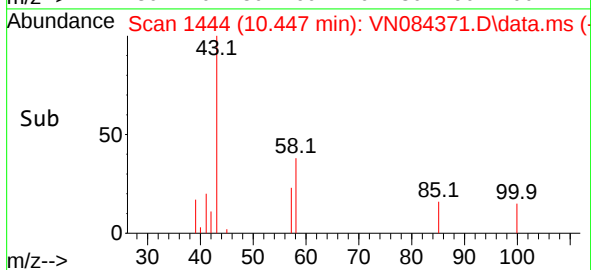
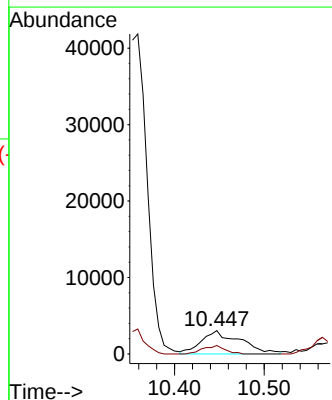
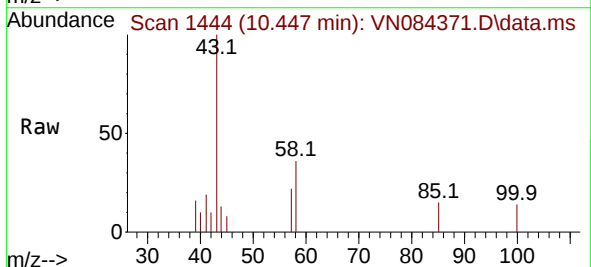
Instrument :
MSVOA_N
ClientSampleId :

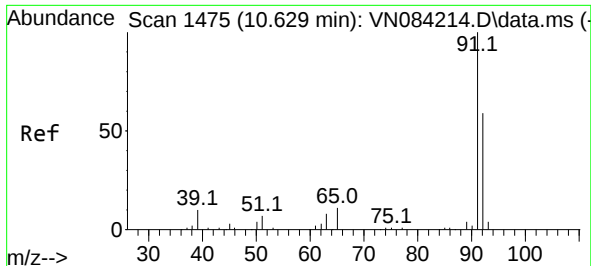
Tgt Ion: 98 Resp: 394899
Ion Ratio Lower Upper
98 100
100 65.4 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 2.957 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

Tgt Ion: 43 Resp: 9223
Ion Ratio Lower Upper
43 100
58 20.6 31.6 47.4#

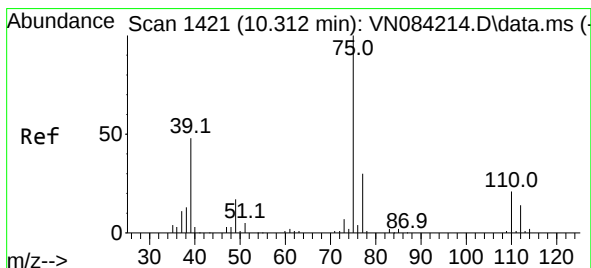
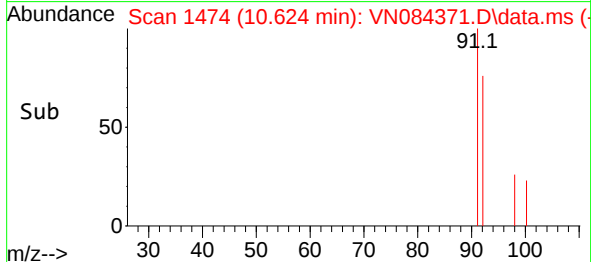
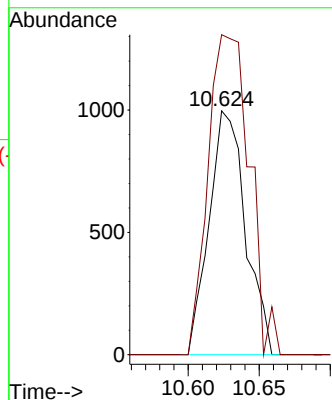
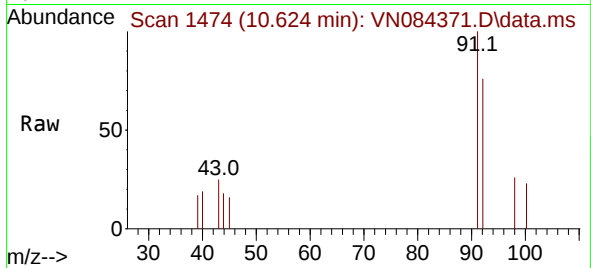




#52
Toluene
Concen: 0.292 ug/l
RT: 10.624 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

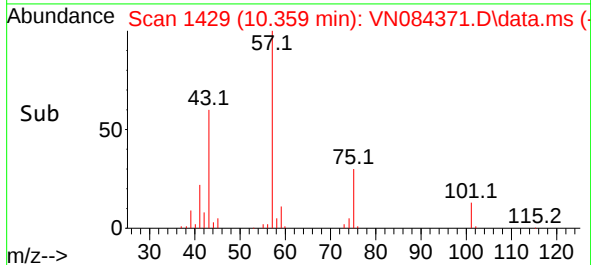
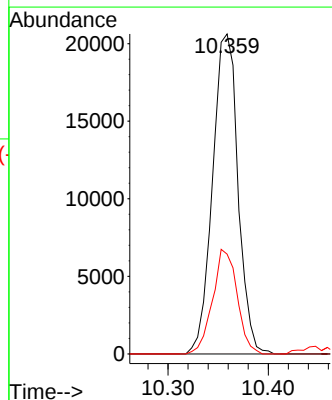
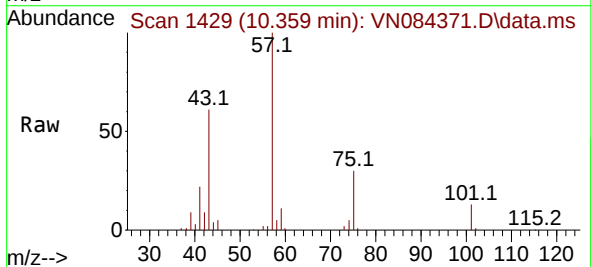
Instrument :
MSVOA_N
ClientSampleId :

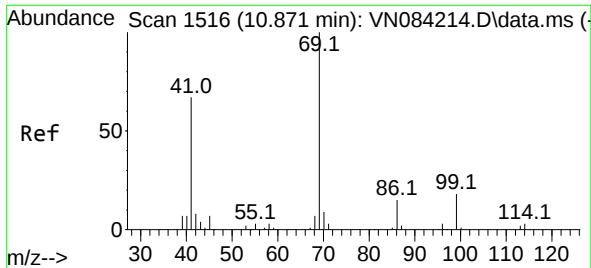
Tgt Ion: 92 Resp: 1774
Ion Ratio Lower Upper
92 100
91 149.9 137.3 205.9



#54
cis-1,3-Dichloropropene
Concen: 9.396 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

Tgt Ion: 75 Resp: 36358
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.2#
39 31.2 38.7 58.1#

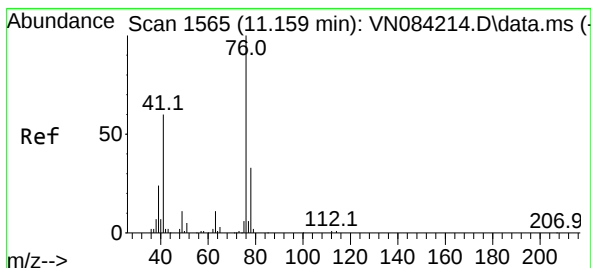
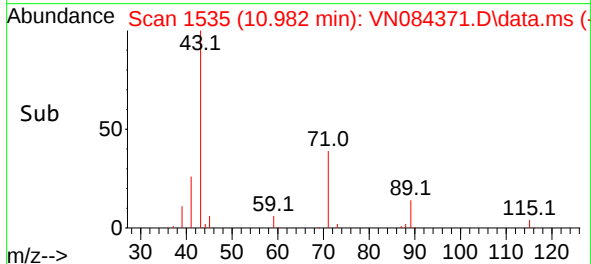
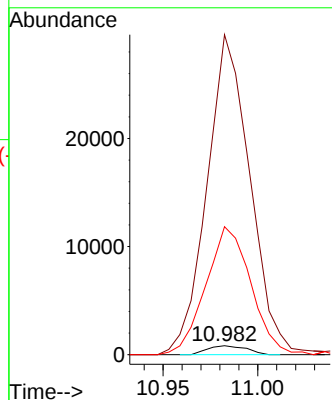
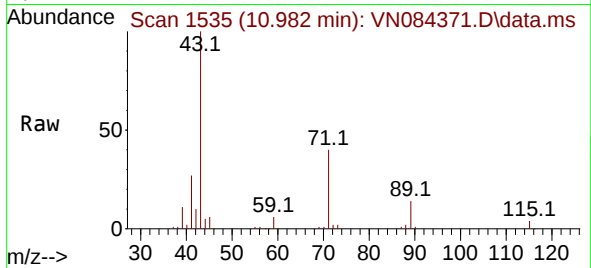




#56
Ethyl methacrylate
Concen: 0.331 ug/l
RT: 10.982 min Scan# 1186
Delta R.T. 0.112 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

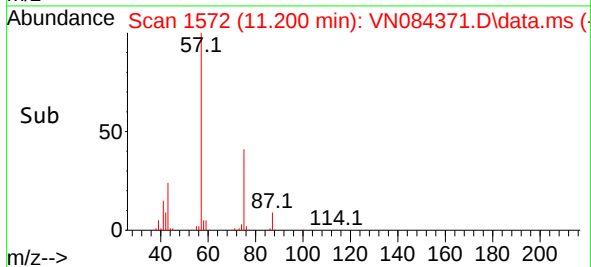
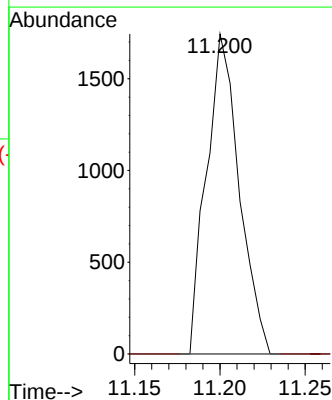
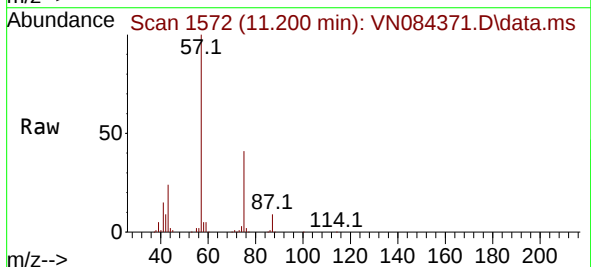
Instrument :
MSVOA_N
ClientSampleId :

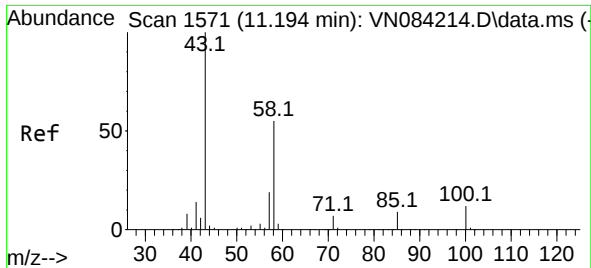
Tgt Ion: 69 Resp: 1186
Ion Ratio Lower Upper
69 100
41 3960.9 53.3 79.9#
39 1654.8 28.8 43.2#



#57
1,3-Dichloropropane
Concen: 0.599 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

Tgt Ion: 76 Resp: 2328
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

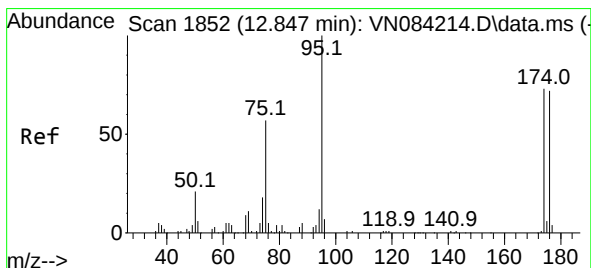
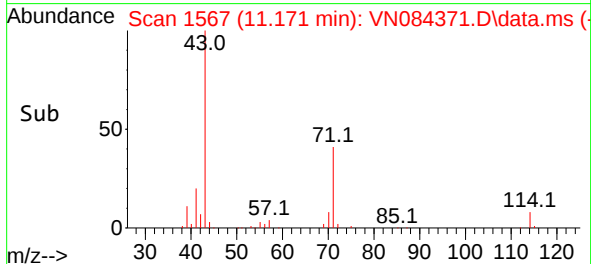
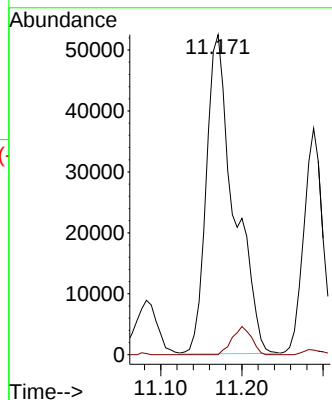
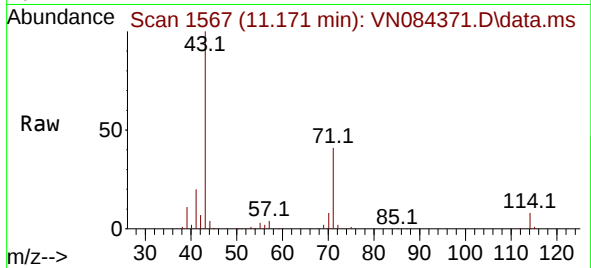




#59
2-Hexanone
Concen: 53.317 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.023 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

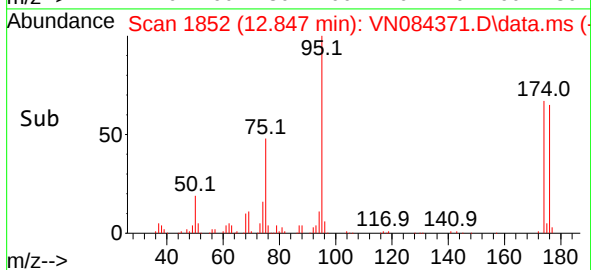
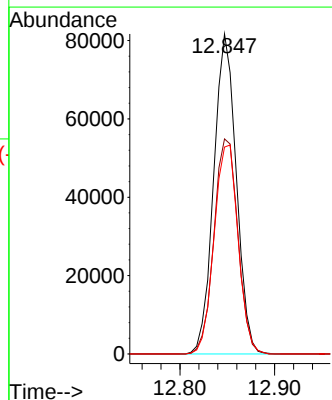
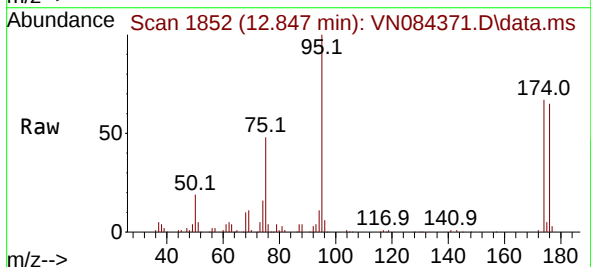
Instrument :
MSVOA_N
ClientSampleId :

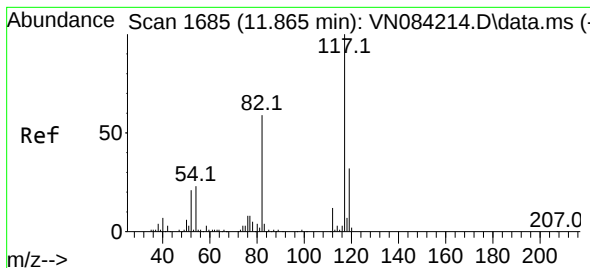
Tgt Ion: 43 Resp: 124298
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 45.860 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

Tgt Ion: 95 Resp: 135154
Ion Ratio Lower Upper
95 100
174 71.3 0.0 145.2
176 69.5 0.0 140.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

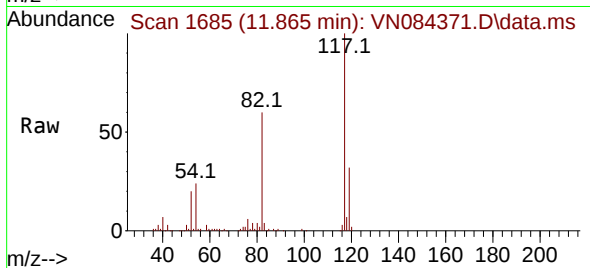
Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

Instrument :

MSVOA_N

ClientSampleId :



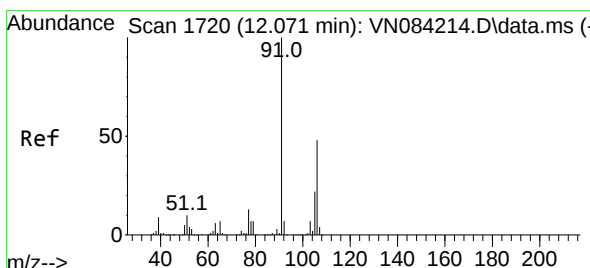
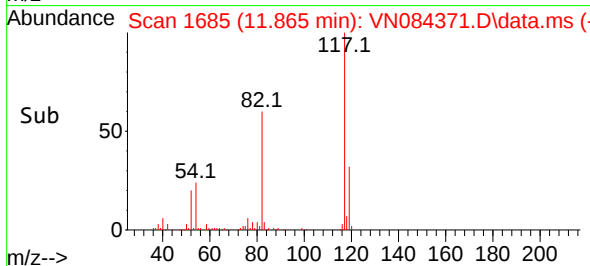
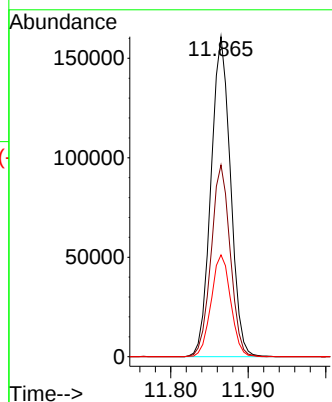
Tgt Ion:117 Resp: 281234

Ion Ratio Lower Upper

117 100

82 59.9 47.2 70.8

119 31.8 25.4 38.0



#68

m/p-Xylenes

Concen: 0.240 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.006 min

Lab File: VN084371.D

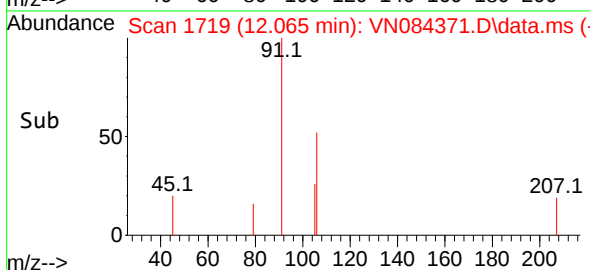
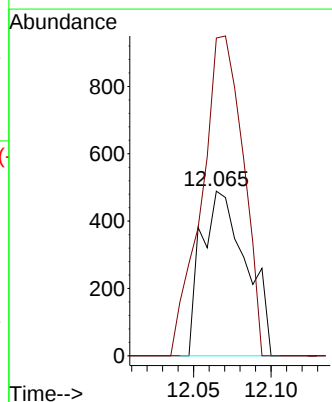
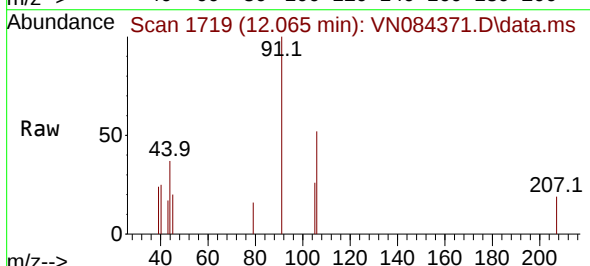
Acq: 09 Oct 2024 16:44

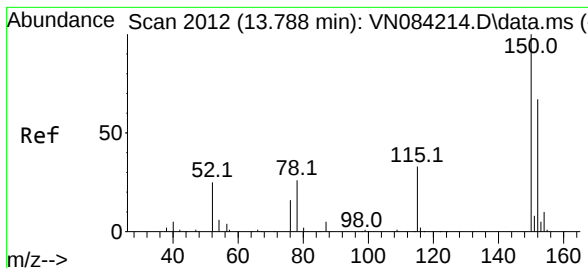
Tgt Ion:106 Resp: 979

Ion Ratio Lower Upper

106 100

91 180.8 167.1 250.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN084371.D

Acq: 09 Oct 2024 16:44

Instrument :

MSVOA_N

ClientSampleId :

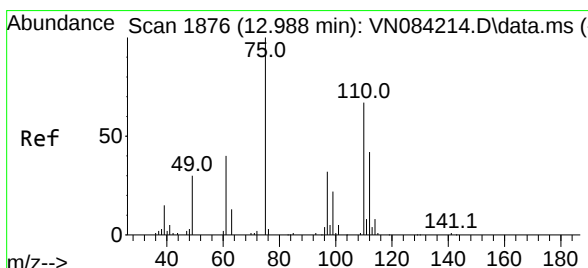
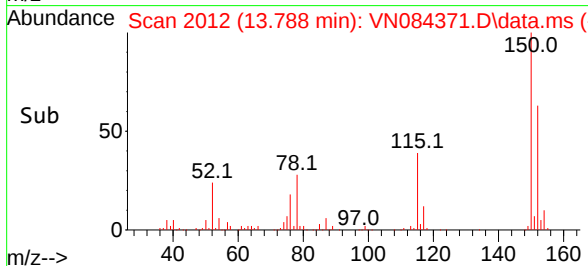
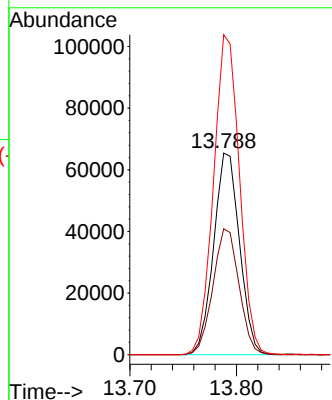
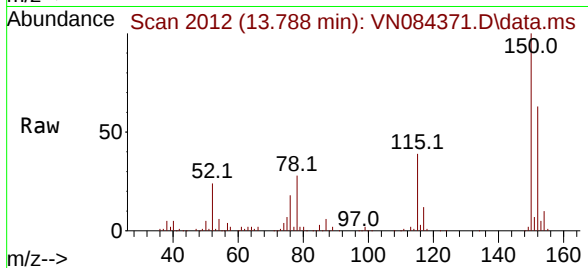
Tgt Ion:152 Resp: 110263

Ion Ratio Lower Upper

152 100

115 63.0 31.3 93.9

150 159.2 0.0 349.8



#76

1,2,3-Trichloropropane

Concen: 30.855 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084371.D

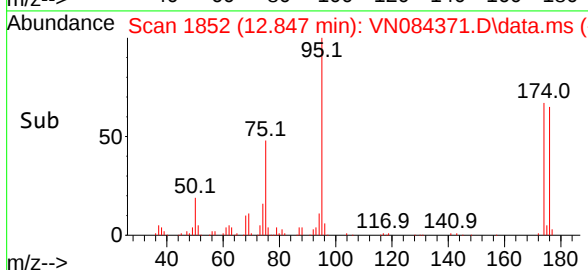
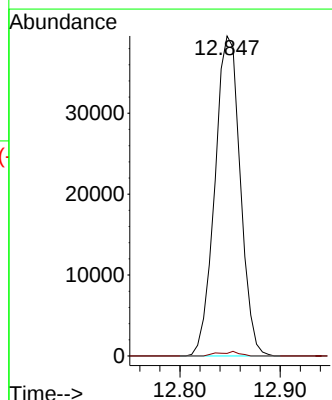
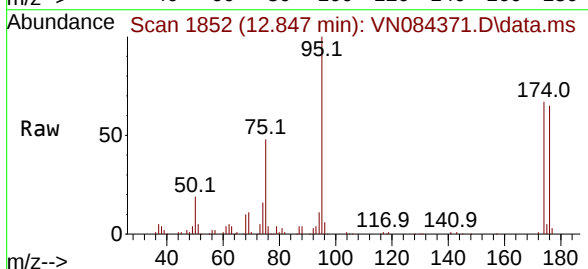
Acq: 09 Oct 2024 16:44

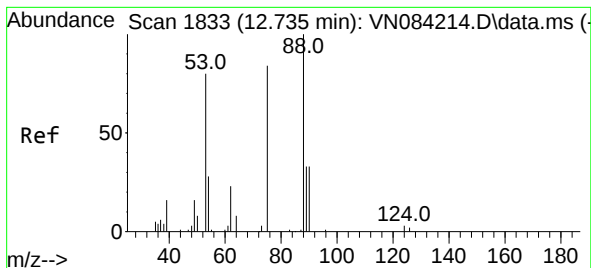
Tgt Ion: 75 Resp: 69457

Ion Ratio Lower Upper

75 100

77 1.1 96.9 290.7#

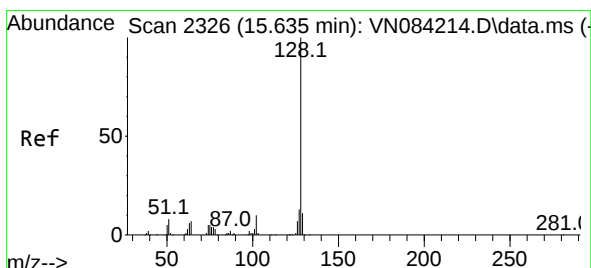
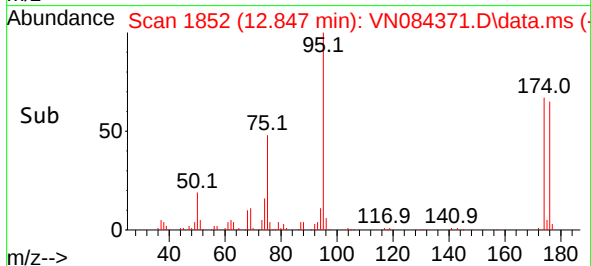
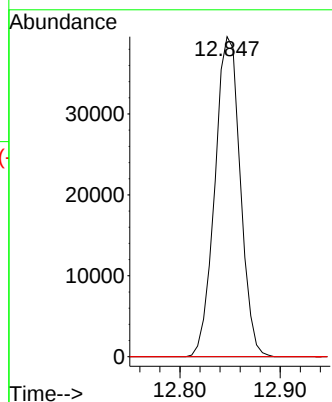
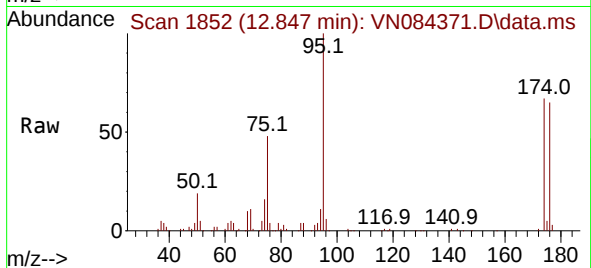




#81
trans-1,4-Dichloro-2-butene
Concen: 73.974 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 69457
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#



#95
Naphthalene
Concen: 6.805 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN084371.D
Acq: 09 Oct 2024 16:44

Tgt Ion:128 Resp: 41487
Ion Ratio Lower Upper
128 100
127 12.1 10.5 15.7
129 10.1 8.7 13.1

