

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091224\
 Data File : VN083857.D
 Acq On : 13 Sep 2024 06:36
 Operator : JC\MD
 Sample : P3957-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 13 07:46:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 11 15:18:56 2024
 Response via : Initial Calibration

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

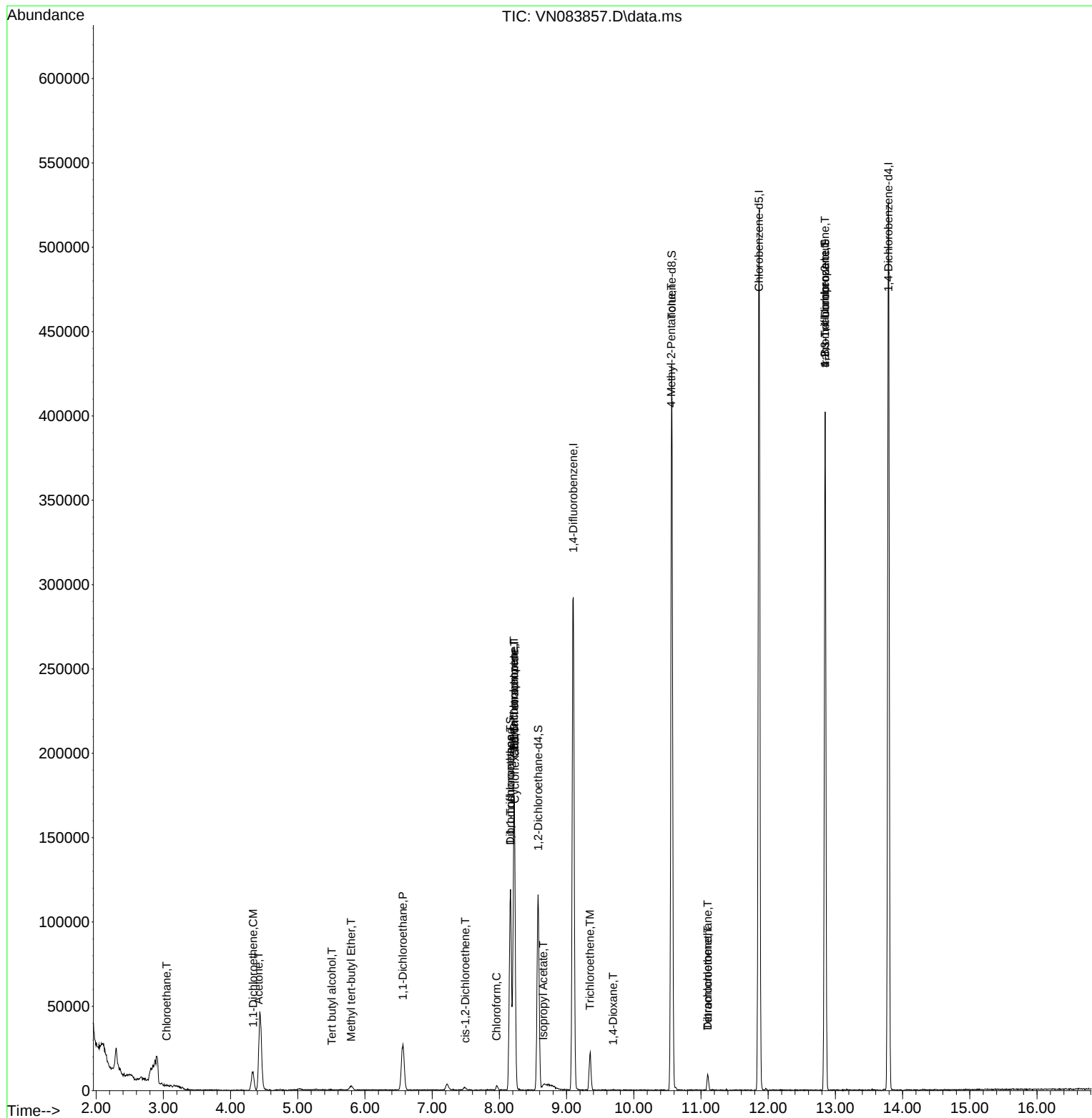
Internal Standards						
1) Pentafluorobenzene	8.218	168	117400	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	248884	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	280410	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	133823	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	98986	55.917	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	111.840%
35) Dibromofluoromethane	8.165	113	77588	48.696	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.400%
50) Toluene-d8	10.565	98	279630	50.766	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.540%
62) 4-Bromofluorobenzene	12.847	95	135472	59.612	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	119.220%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	767	Below Cal		90
6) Chloroethane	3.048	64	662	0.632	ug/l #	45
11) Tert butyl alcohol	5.506	59	72	0.304	ug/l #	71
12) 1,1-Dichloroethene	4.336	96	6858	5.401	ug/l #	73
16) Acetone	4.418	43	689	0.971	ug/l #	45
18) Methyl Acetate	5.030	43	1840	Below Cal	#	59
19) Methyl tert-butyl Ether	5.794	73	4787	1.042	ug/l	96
24) 1,1-Dichloroethane	6.565	63	39478	14.712	ug/l	98
27) cis-1,2-Dichloroethene	7.494	96	1046	0.648	ug/l	85
30) Chloroform	7.959	83	2631	0.924	ug/l	87
31) Cyclohexane	8.230	56	3172	1.240	ug/l #	22
32) 1,1,1-Trichloroethane	8.165	97	6095	2.327	ug/l #	87
36) 1,1-Dichloropropene	8.218	75	11172	4.659	ug/l #	44
38) Carbon Tetrachloride	8.224	117	14395	5.291	ug/l #	15
43) Isopropyl Acetate	8.653	43	2333	0.591	ug/l #	57
44) Trichloroethene	9.347	130	7555	4.520	ug/l	92
49) 1,4-Dioxane	9.694	88	55	1.786	ug/l #	14
51) 4-Methyl-2-Pentanone	10.559	43	1552	0.723	ug/l #	1
60) Dibromochloromethane	11.100	129	2035	1.103	ug/l #	10
64) Tetrachloroethene	11.100	164	2059	1.104	ug/l #	86
76) 1,2,3-Trichloropropane	12.847	75	76697	28.403	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	76697	74.390	ug/l #	9

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

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Quant Time: Sep 13 07:46:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091024W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 11 15:18:56 2024
Response via : Initial Calibration

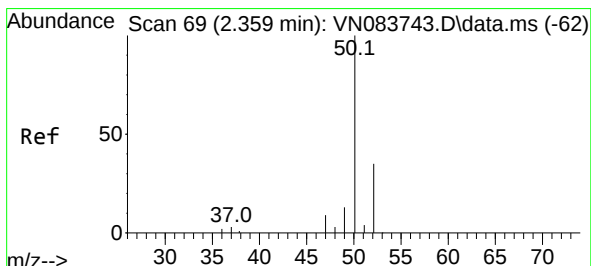
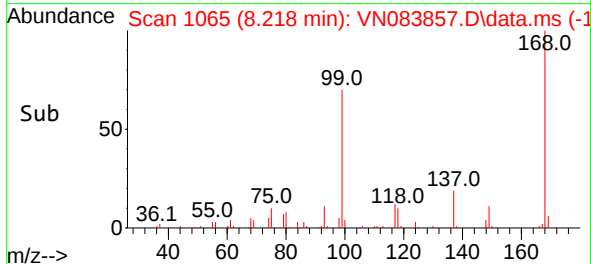
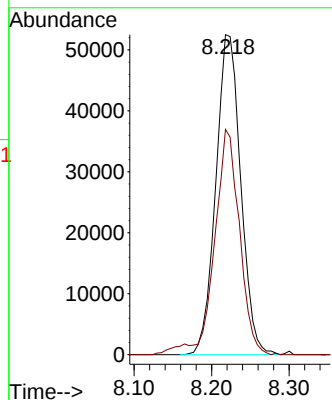
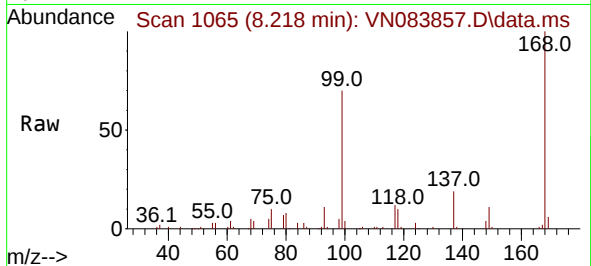




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN083857.D
Acq: 13 Sep 2024 06:36

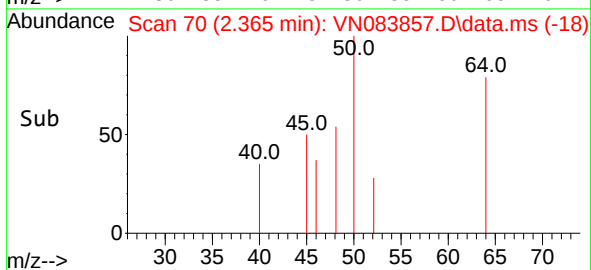
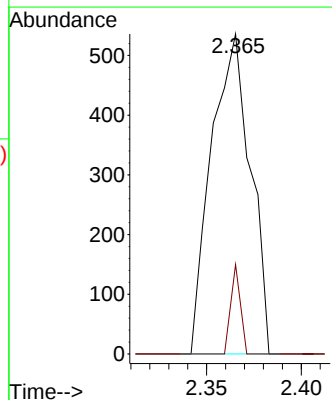
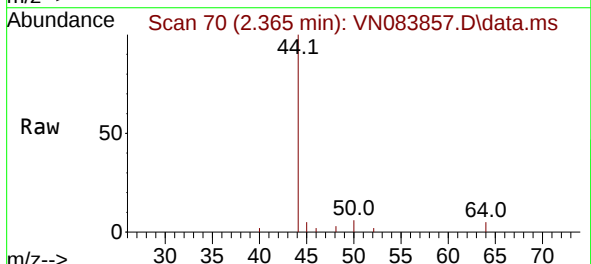
Instrument :
MSVOA_N
ClientSampleId :

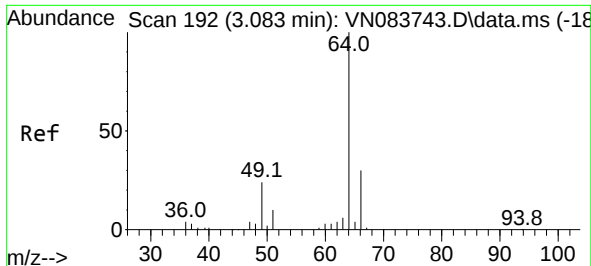
Tgt Ion:168 Resp: 117400
Ion Ratio Lower Upper
168 100
99 70.4 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083857.D
Acq: 13 Sep 2024 06:36

Tgt Ion: 50 Resp: 767
Ion Ratio Lower Upper
50 100
52 28.0 27.2 40.8

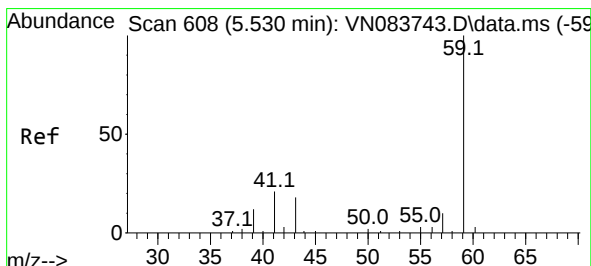
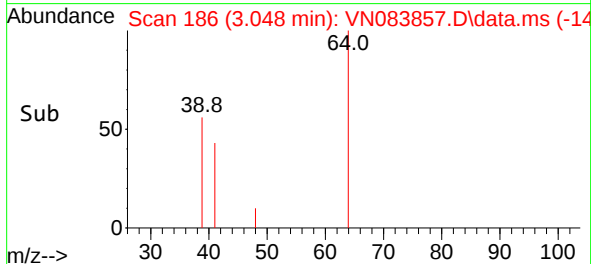
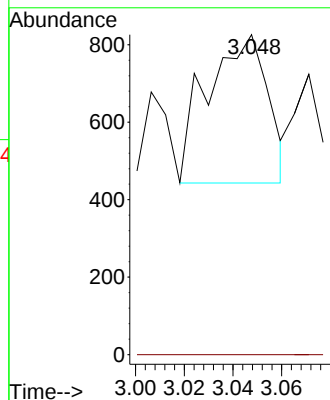
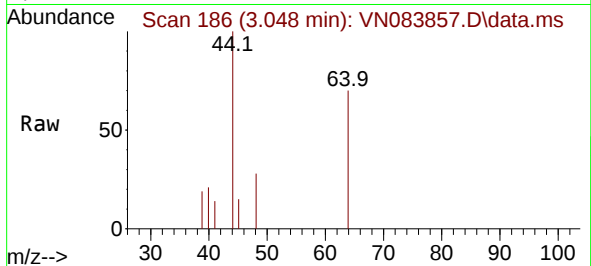




#6
Chloroethane
Concen: 0.632 ug/l
RT: 3.048 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN083857.D
Acq: 13 Sep 2024 06:36

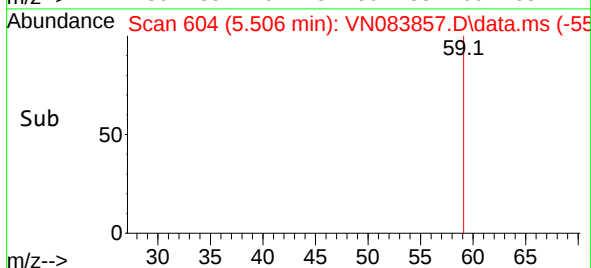
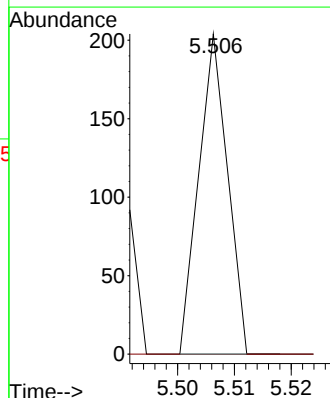
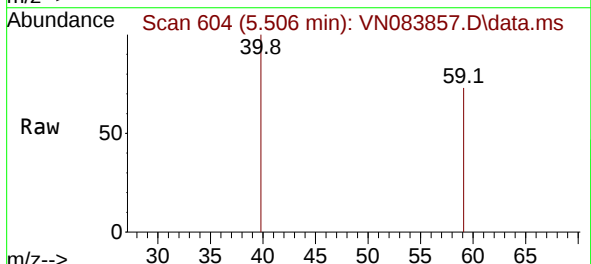
Instrument :
MSVOA_N
ClientSampleId :

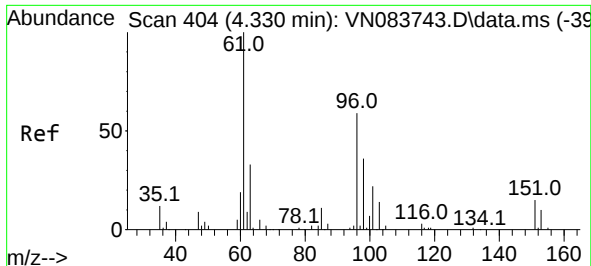
Tgt Ion: 64 Resp: 662
Ion Ratio Lower Upper
64 100
66 0.0 23.9 35.9#



#11
Tert butyl alcohol
Concen: 0.304 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.024 min
Lab File: VN083857.D
Acq: 13 Sep 2024 06:36

Tgt Ion: 59 Resp: 72
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





#12

1,1-Dichloroethene

Concen: 5.401 ug/l

RT: 4.336 min Scan# 404

Delta R.T. 0.006 min

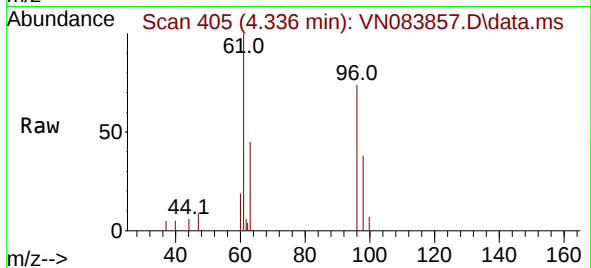
Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

Instrument :

MSVOA_N

ClientSampleId :



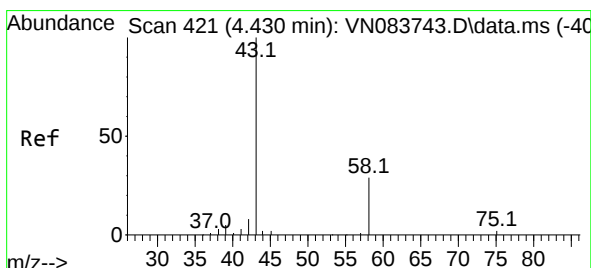
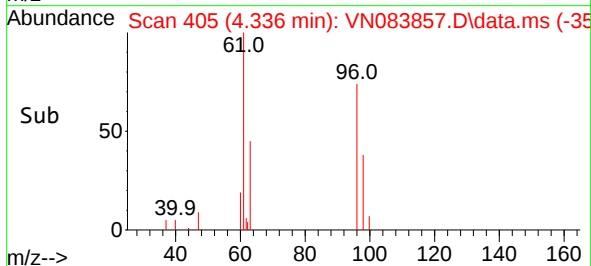
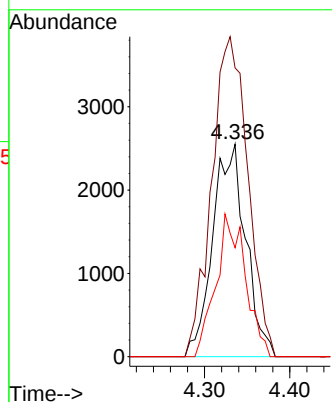
Tgt Ion: 96 Resp: 6858

Ion Ratio Lower Upper

96 100

61 135.9 143.4 215.0#

98 51.3 52.7 79.1#



#16

Acetone

Concen: 0.971 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.012 min

Lab File: VN083857.D

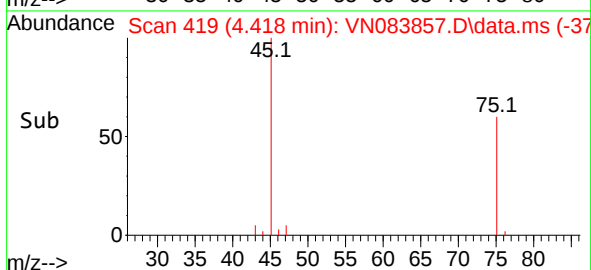
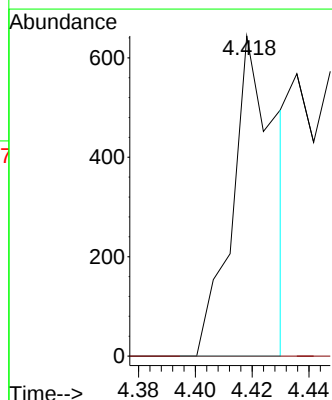
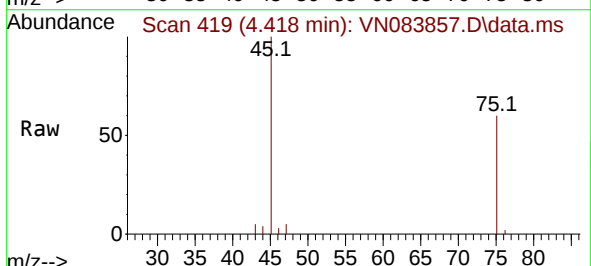
Acq: 13 Sep 2024 06:36

Tgt Ion: 43 Resp: 689

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#

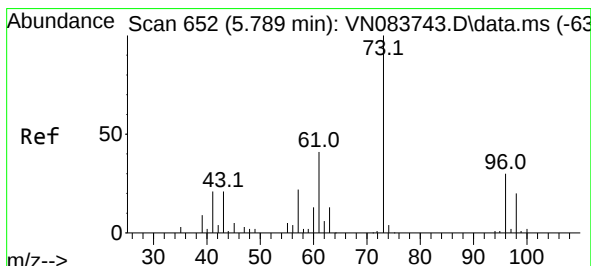
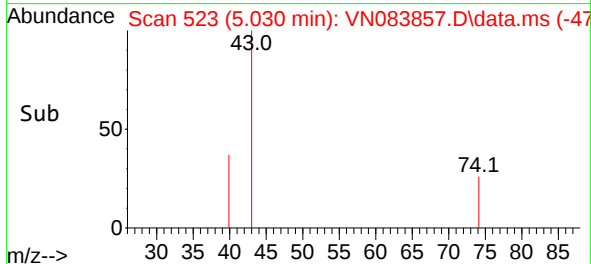
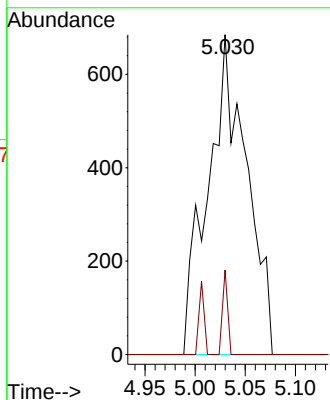
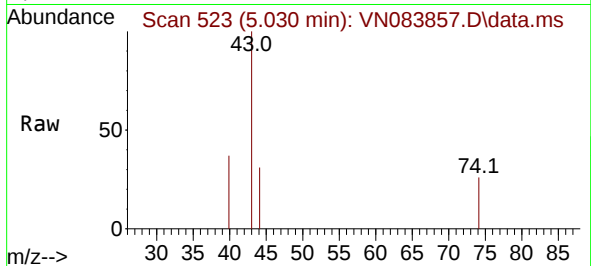




#18
Methyl Acetate
Concen: Below Cal
RT: 5.030 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN083857.D
Acq: 13 Sep 2024 06:36

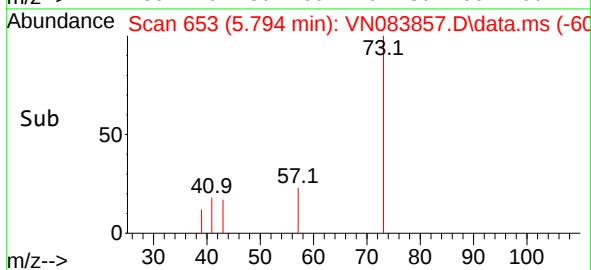
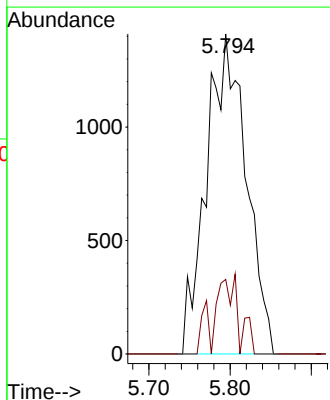
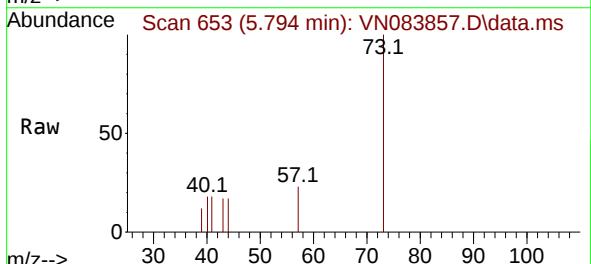
Instrument :
MSVOA_N
ClientSampleId :

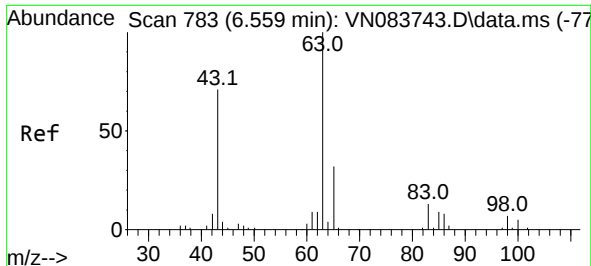
Tgt Ion: 43 Resp: 1840
Ion Ratio Lower Upper
43 100
74 3.5 19.0 28.4#



#19
Methyl tert-butyl Ether
Concen: 1.042 ug/l
RT: 5.794 min Scan# 653
Delta R.T. 0.006 min
Lab File: VN083857.D
Acq: 13 Sep 2024 06:36

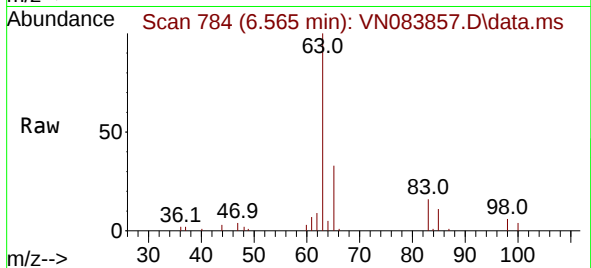
Tgt Ion: 73 Resp: 4787
Ion Ratio Lower Upper
73 100
57 23.3 17.0 25.6



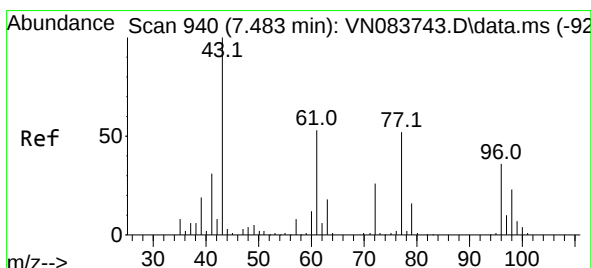
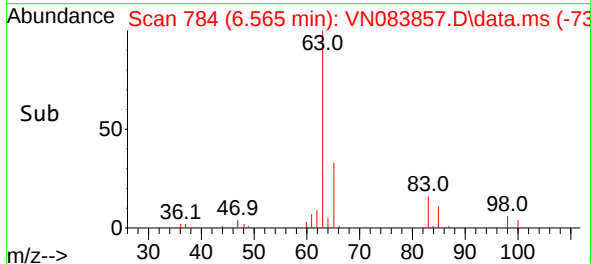
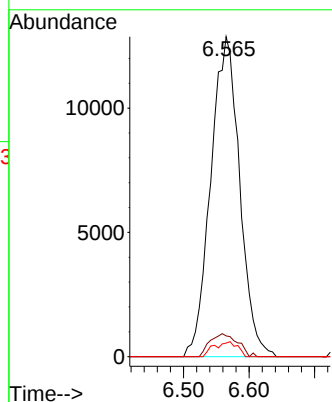


#24
1,1-Dichloroethane
Concen: 14.712 ug/l
RT: 6.565 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN083857.D
Acq: 13 Sep 2024 06:36

Instrument :
MSVOA_N
ClientSampleId :

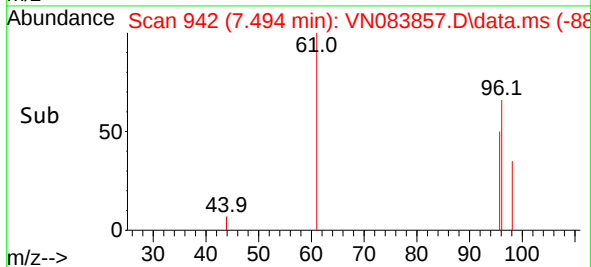
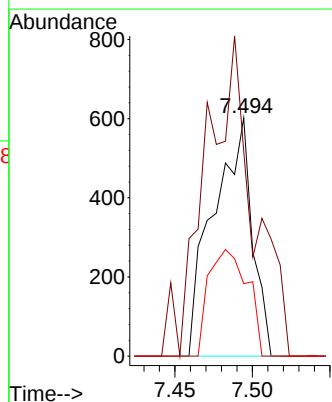
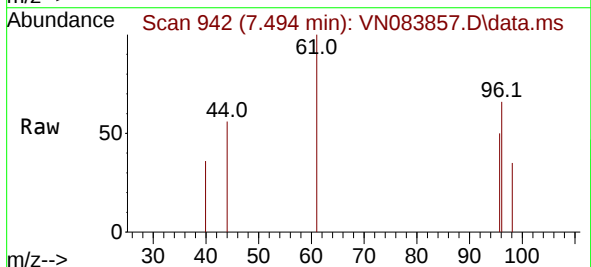


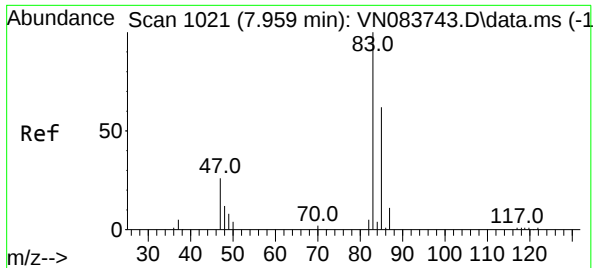
Tgt Ion: 63 Resp: 39478
Ion Ratio Lower Upper
63 100
98 6.5 3.5 10.4
100 4.3 2.5 7.5



#27
cis-1,2-Dichloroethene
Concen: 0.648 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN083857.D
Acq: 13 Sep 2024 06:36

Tgt Ion: 96 Resp: 1046
Ion Ratio Lower Upper
96 100
61 167.8 0.0 306.2
98 44.7 0.0 128.6





#30

Chloroform

Concen: 0.924 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

Instrument :

MSVOA_N

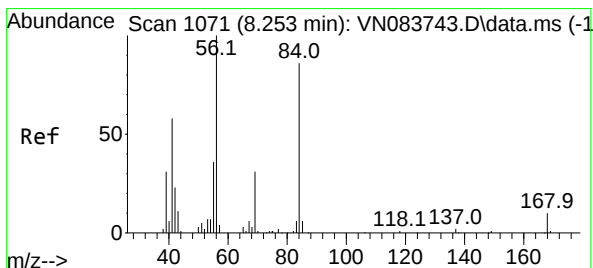
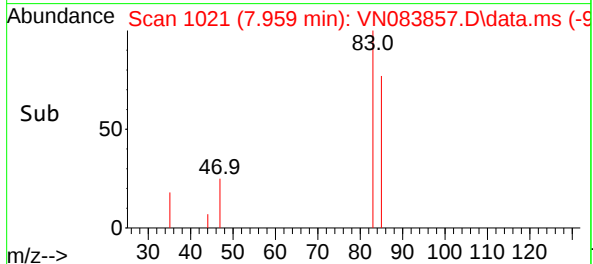
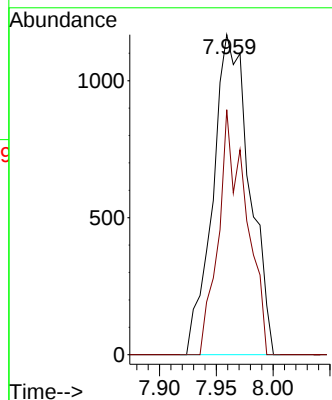
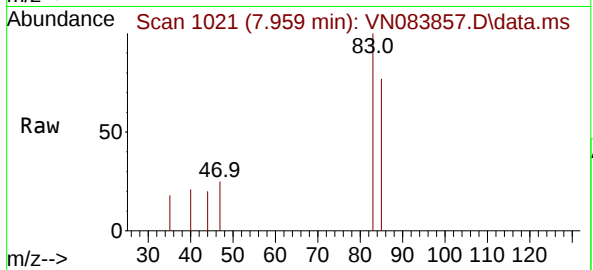
ClientSampleId :

Tgt Ion: 83 Resp: 2631

Ion Ratio Lower Upper

83 100

85 76.5 52.8 79.2



#31

Cyclohexane

Concen: 1.240 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.024 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

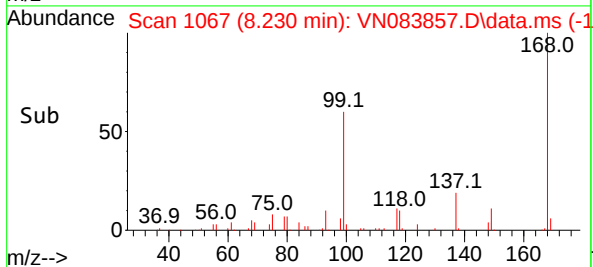
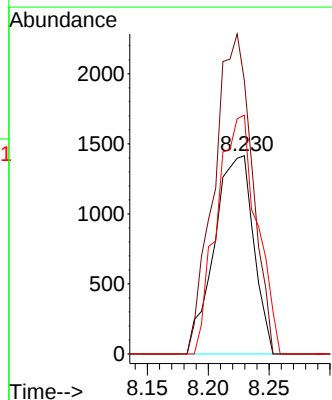
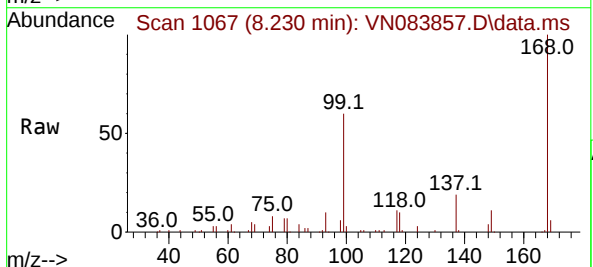
Tgt Ion: 56 Resp: 3172

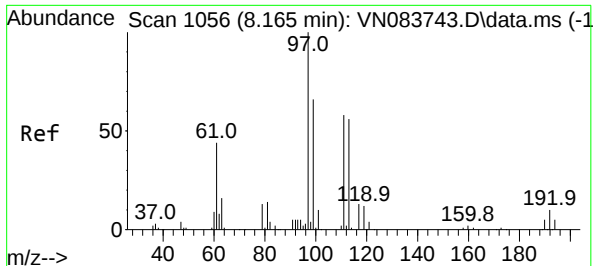
Ion Ratio Lower Upper

56 100

69 137.9 26.9 40.3#

84 120.5 69.2 103.8#





#32

1,1,1-Trichloroethane

Concen: 2.327 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

Instrument :

MSVOA_N

ClientSampleId :

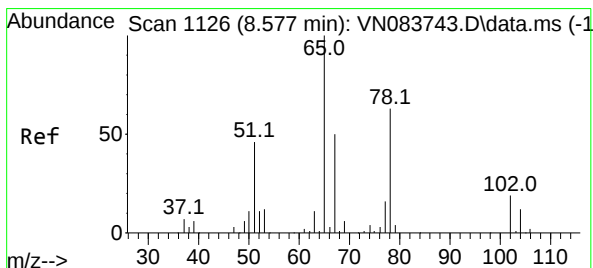
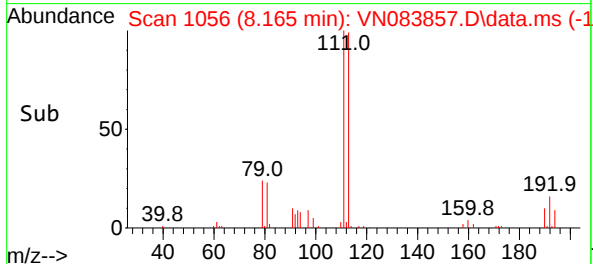
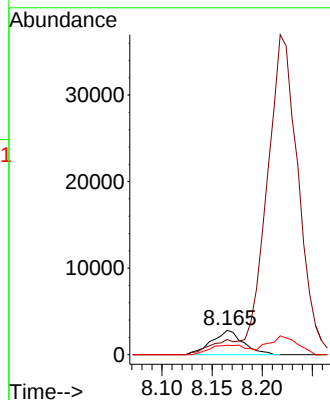
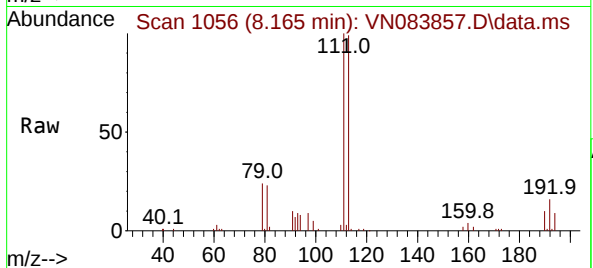
Tgt Ion: 97 Resp: 6095

Ion Ratio Lower Upper

97 100

99 48.1 52.3 78.5#

61 48.9 38.2 57.2



#33

1,2-Dichloroethane-d4

Concen: 55.917 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083857.D

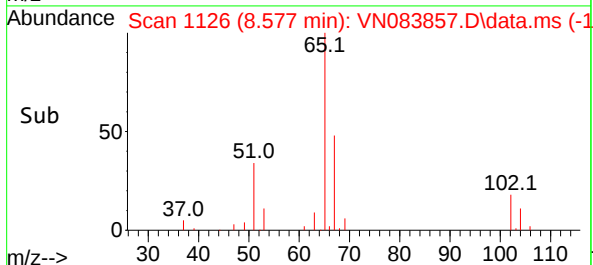
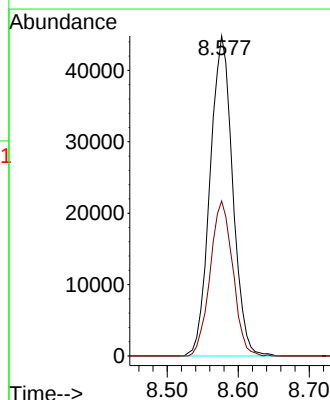
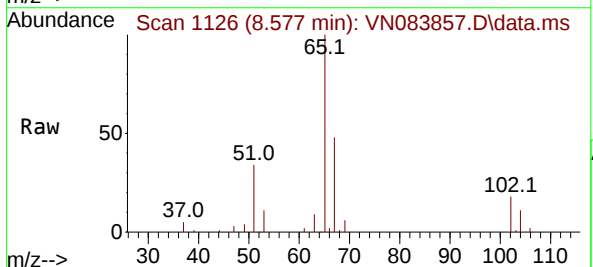
Acq: 13 Sep 2024 06:36

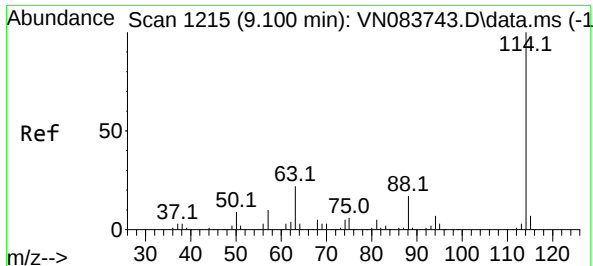
Tgt Ion: 65 Resp: 98986

Ion Ratio Lower Upper

65 100

67 48.5 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

Instrument :

MSVOA_N

ClientSampleId :

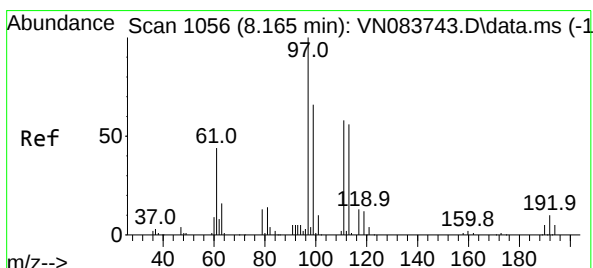
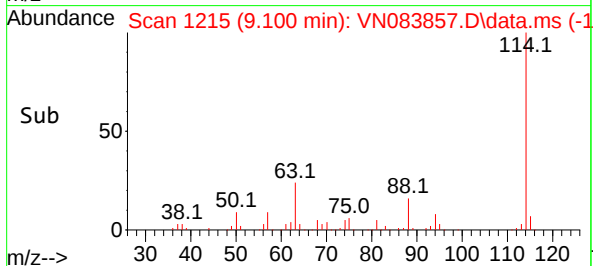
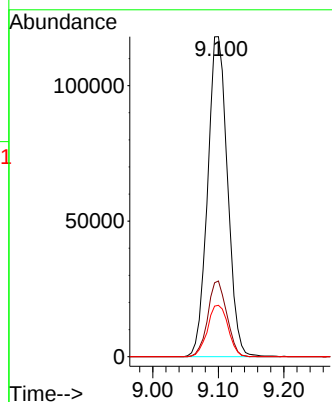
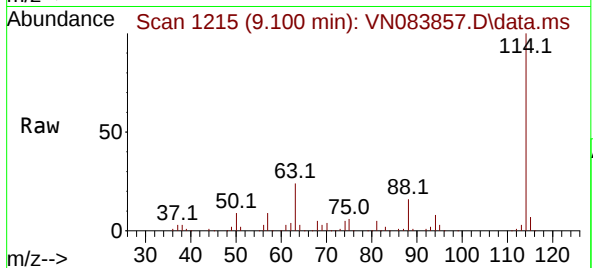
Tgt Ion:114 Resp: 248884

Ion Ratio Lower Upper

114 100

63 23.6 0.0 43.4

88 16.1 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.696 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

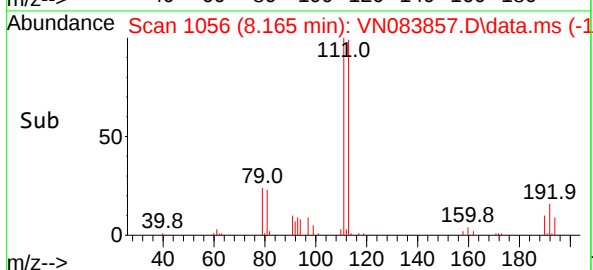
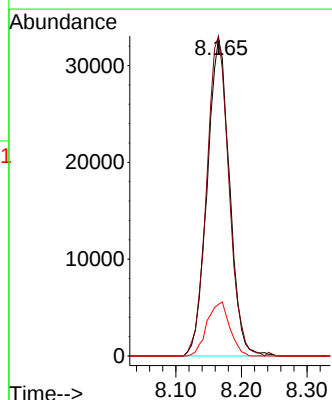
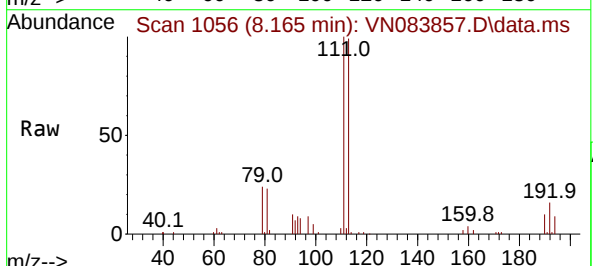
Tgt Ion:113 Resp: 77588

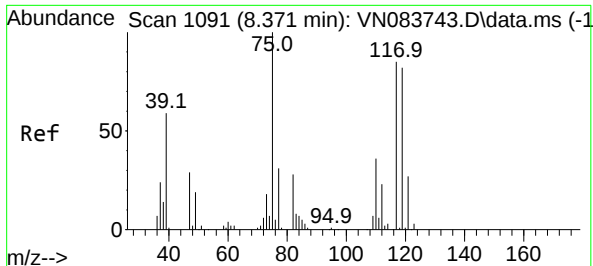
Ion Ratio Lower Upper

113 100

111 100.4 82.6 124.0

192 17.3 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.659 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

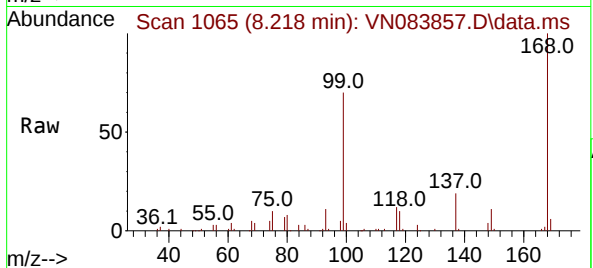
Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

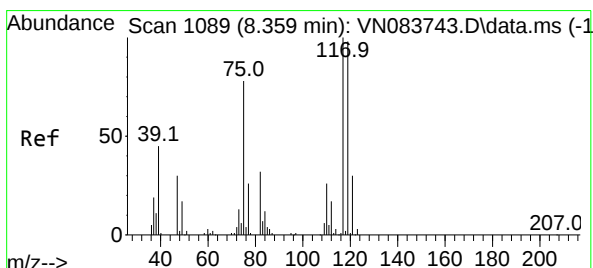
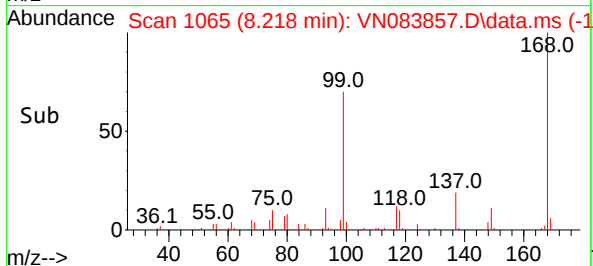
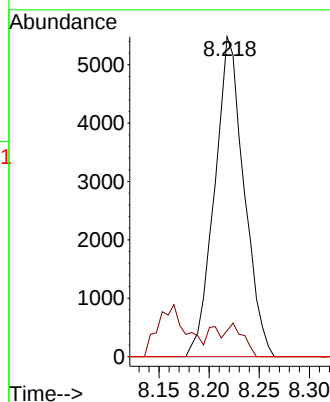
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	75	Resp:	11172
Ion Ratio	Lower	Upper	
75	100		
110	2.3	16.7	50.1#
77	0.0	25.2	37.8#



#38

Carbon Tetrachloride

Concen: 5.291 ug/l

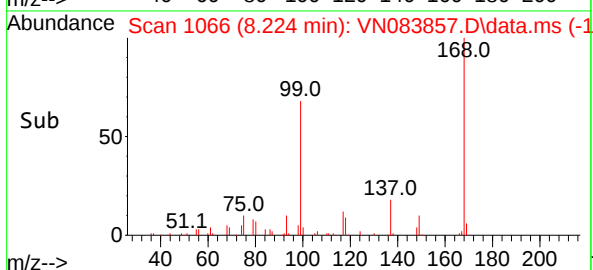
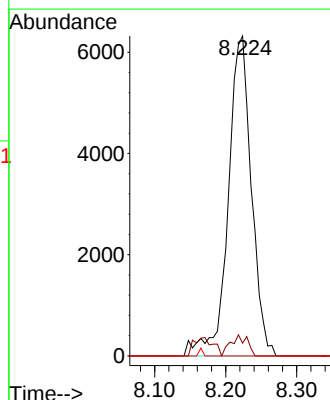
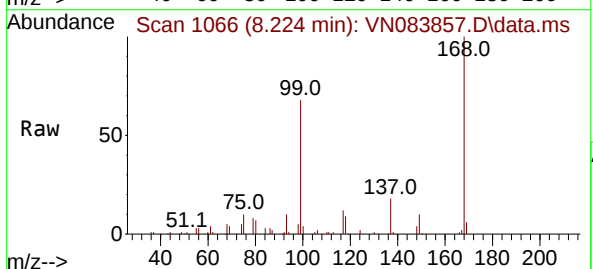
RT: 8.224 min Scan# 1066

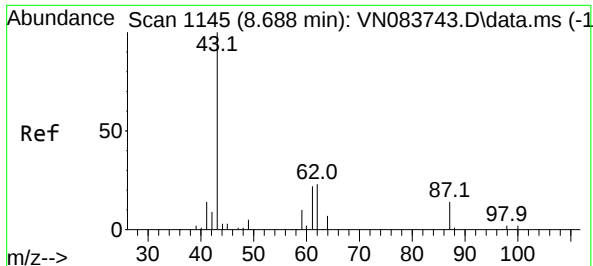
Delta R.T. -0.135 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

Tgt Ion:	117	Resp:	14395
Ion Ratio	Lower	Upper	
117	100		
119	4.0	76.1	114.1#
121	0.0	24.1	36.1#





#43

Isopropyl Acetate

Concen: 0.591 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. -0.035 min

Lab File: VN083857.D

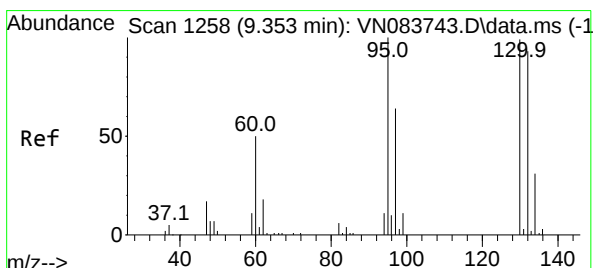
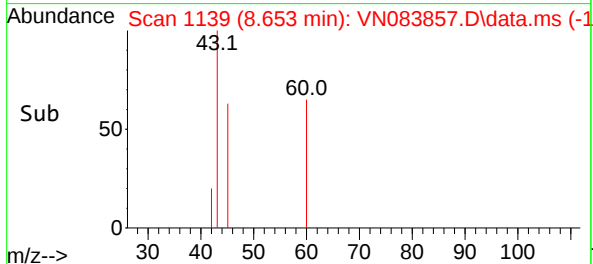
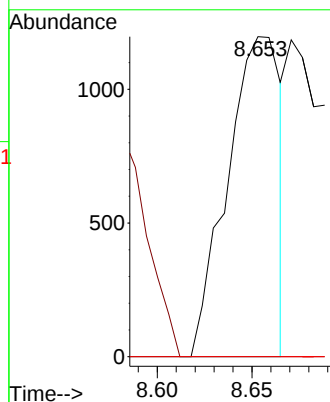
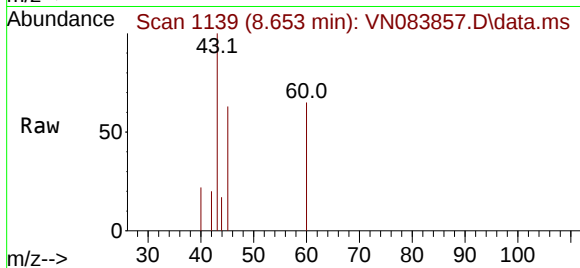
Acq: 13 Sep 2024 06:36

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 43	Resp:	2333
Ion Ratio	Lower	Upper
43	100	
61	0.0	19.4 29.0#
87	0.0	9.8 14.6#



#44

Trichloroethene

Concen: 4.520 ug/l

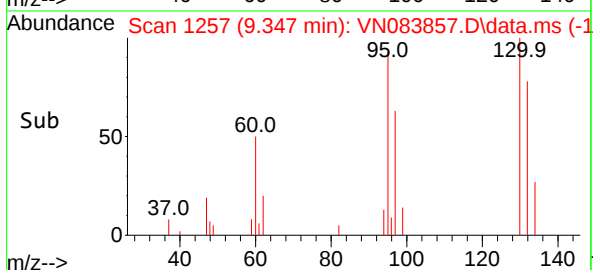
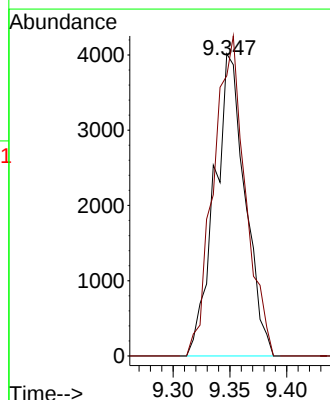
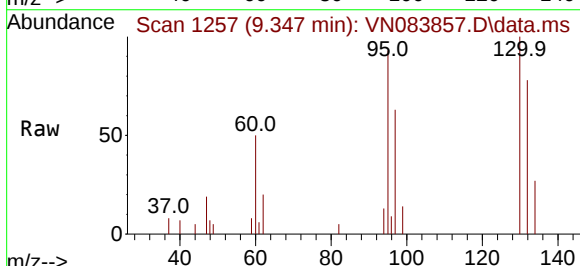
RT: 9.347 min Scan# 1257

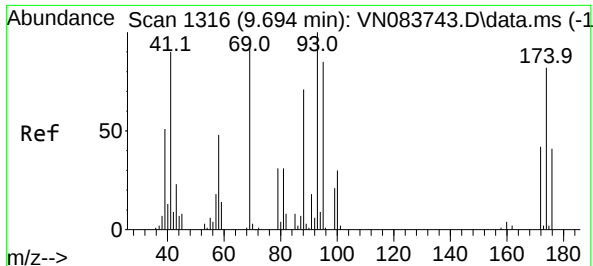
Delta R.T. -0.006 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

Tgt Ion: 130	Resp:	7555
Ion Ratio	Lower	Upper
130	100	
95	92.7	0.0 200.4





#49

1,4-Dioxane

Concen: 1.786 ug/l

RT: 9.694 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

Instrument :

MSVOA_N

ClientSampleId :

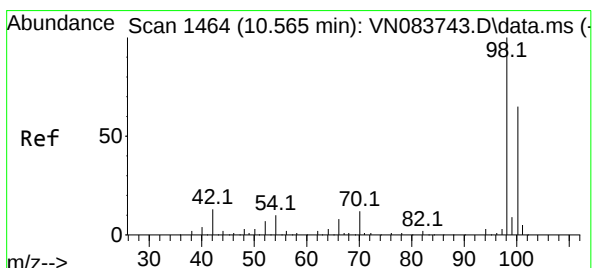
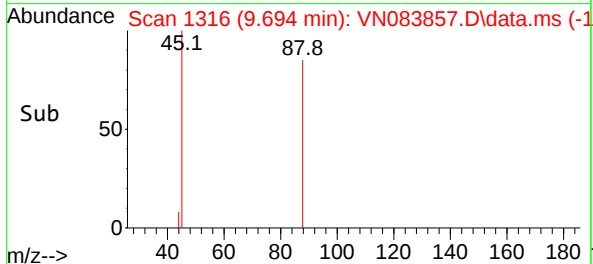
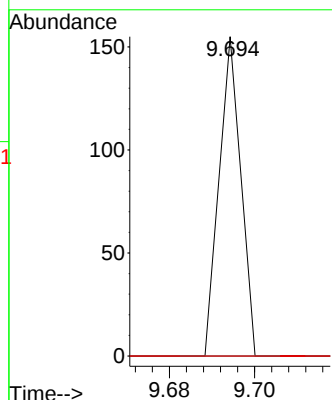
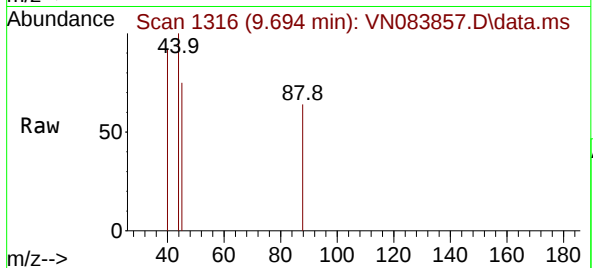
Tgt Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 57.1 85.7#



#50

Toluene-d8

Concen: 50.766 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN083857.D

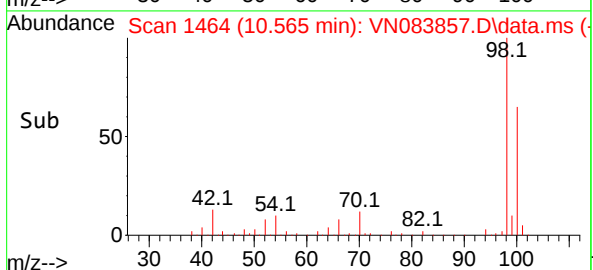
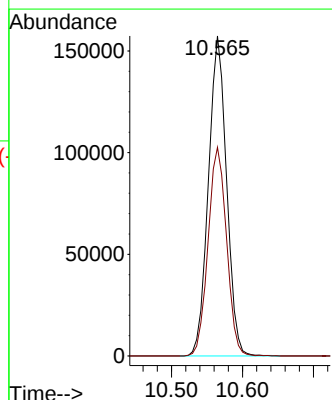
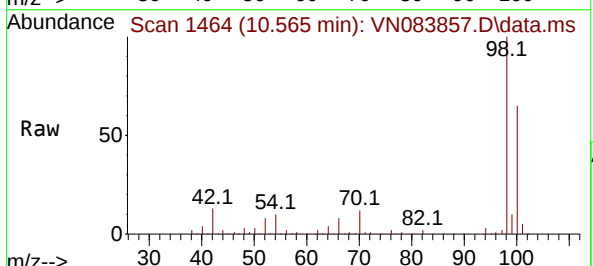
Acq: 13 Sep 2024 06:36

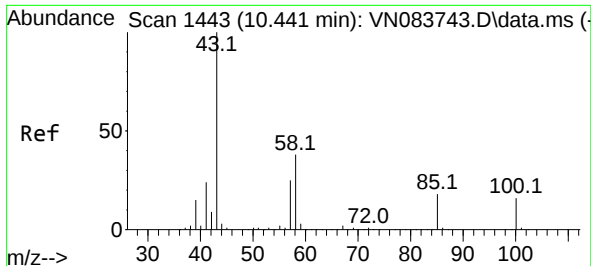
Tgt Ion: 98 Resp: 279630

Ion Ratio Lower Upper

98 100

100 66.4 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.723 ug/l

RT: 10.559 min Scan# 14

Delta R.T. 0.118 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

Instrument :

MSVOA_N

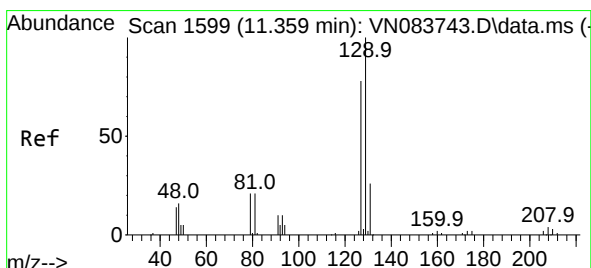
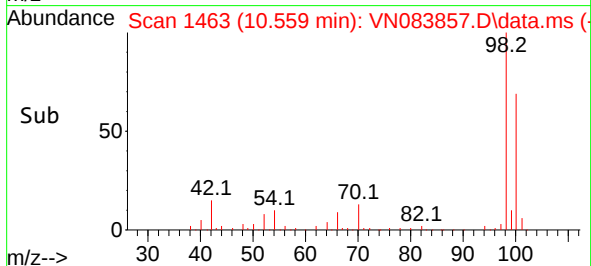
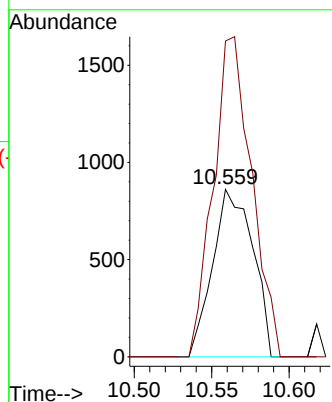
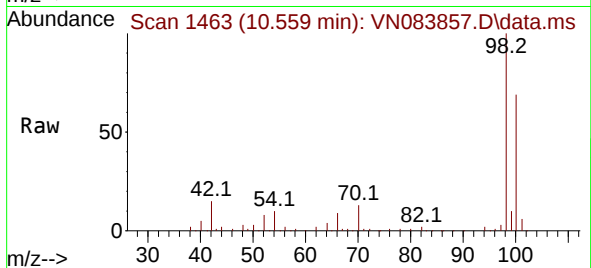
ClientSampleId :

Tgt Ion: 43 Resp: 1552

Ion Ratio Lower Upper

43 100

58 182.7 31.6 47.4#



#60

Dibromochloromethane

Concen: 1.103 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.259 min

Lab File: VN083857.D

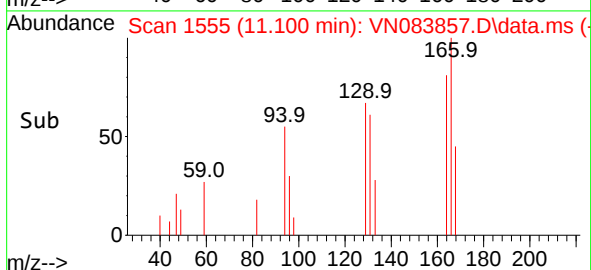
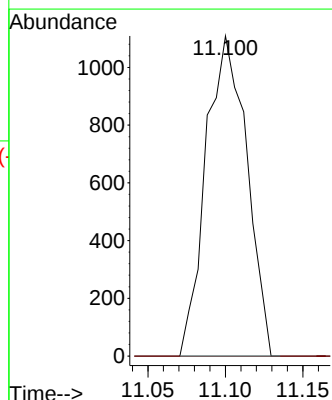
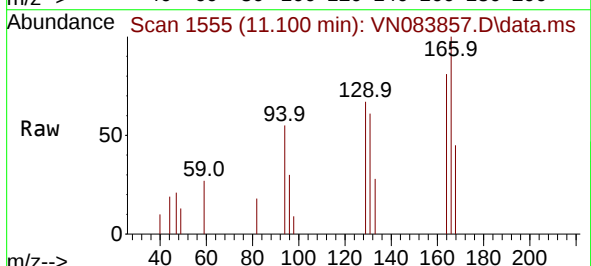
Acq: 13 Sep 2024 06:36

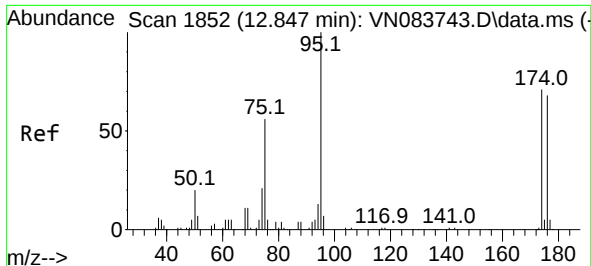
Tgt Ion: 129 Resp: 2035

Ion Ratio Lower Upper

129 100

127 0.0 39.0 116.9#

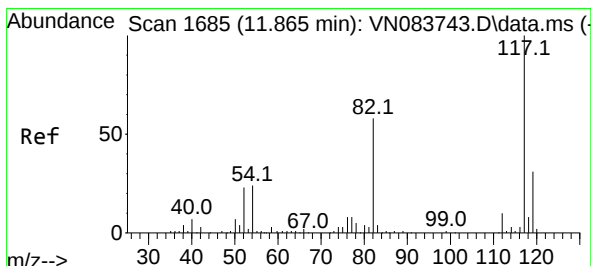
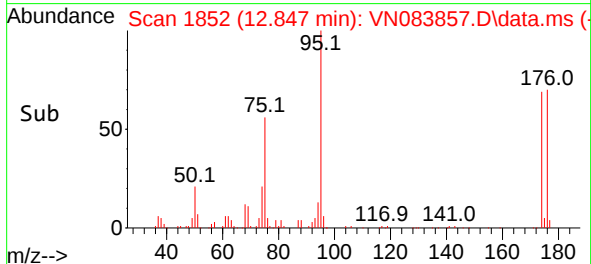
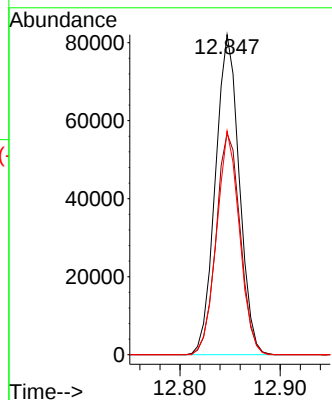
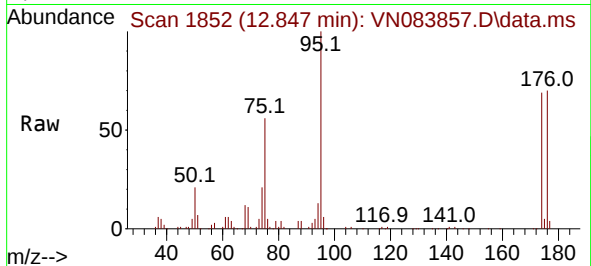




#62
4-Bromofluorobenzene
Concen: 59.612 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083857.D
Acq: 13 Sep 2024 06:36

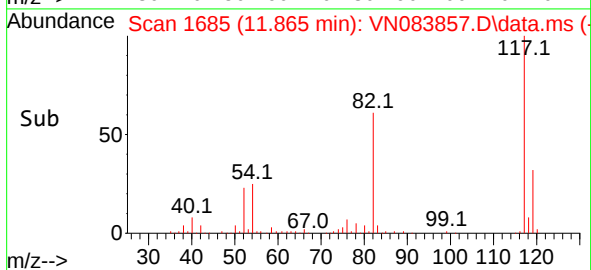
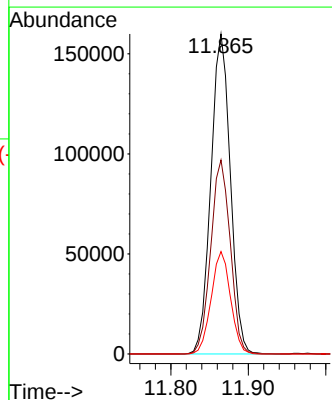
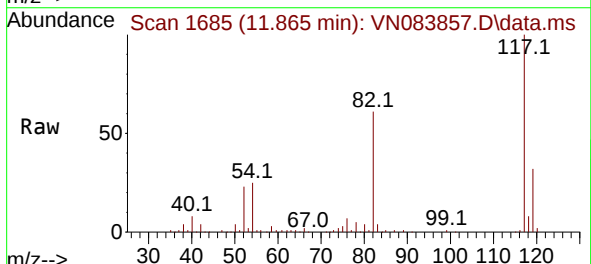
Instrument :
MSVOA_N
ClientSampleId :

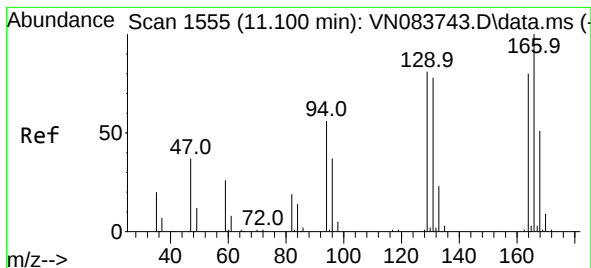
Tgt Ion: 95 Resp: 135472
Ion Ratio Lower Upper
95 100
174 70.0 0.0 139.8
176 67.2 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083857.D
Acq: 13 Sep 2024 06:36

Tgt Ion: 117 Resp: 280410
Ion Ratio Lower Upper
117 100
82 60.6 47.4 71.0
119 32.0 26.3 39.5





#64

Tetrachloroethene

Concen: 1.104 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

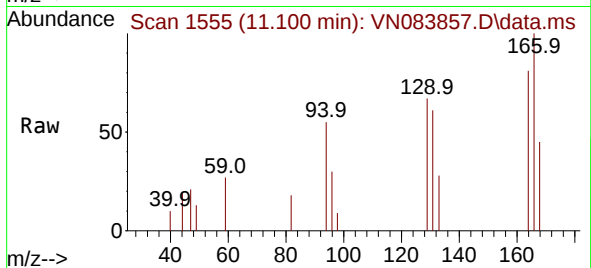
Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:164 Resp: 2059

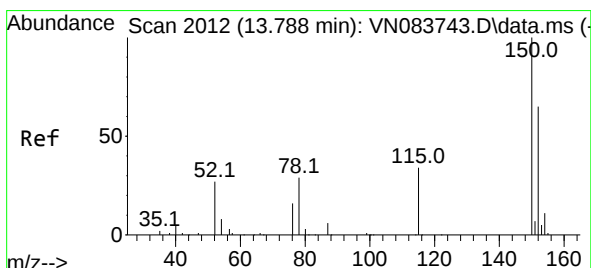
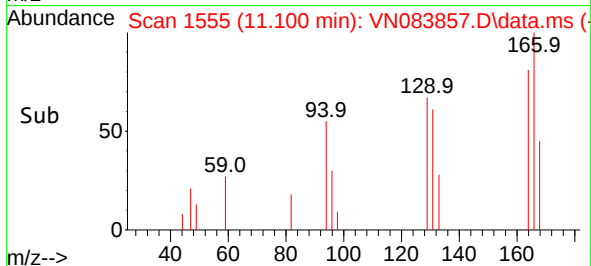
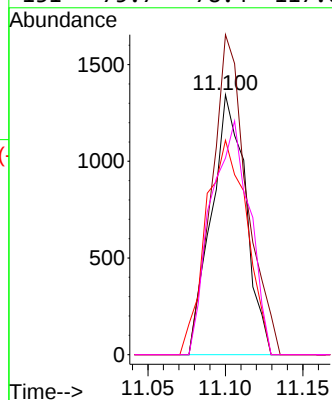
Ion Ratio Lower Upper

164 100

166 123.1 103.7 155.5

129 82.5 79.9 119.9

131 75.7 78.4 117.6#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

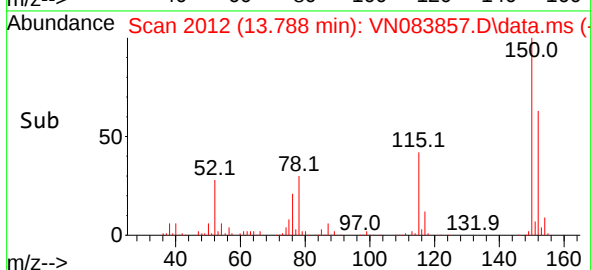
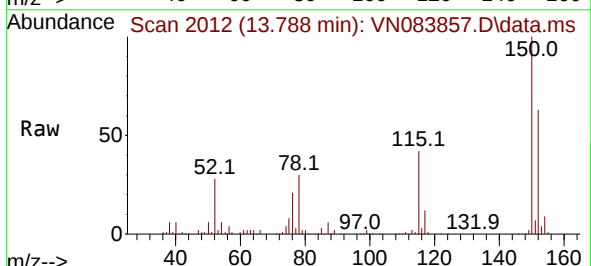
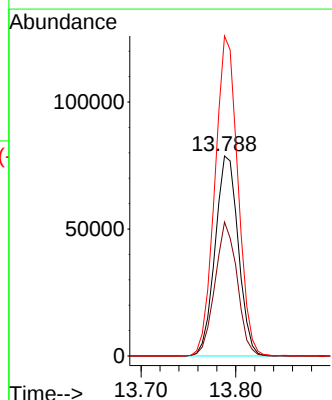
Tgt Ion:152 Resp: 133823

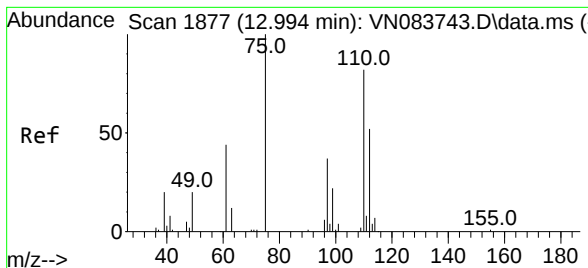
Ion Ratio Lower Upper

152 100

115 64.1 32.2 96.6

150 158.6 0.0 348.6





#76

1,2,3-Trichloropropane

Concen: 28.403 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

Instrument :

MSVOA_N

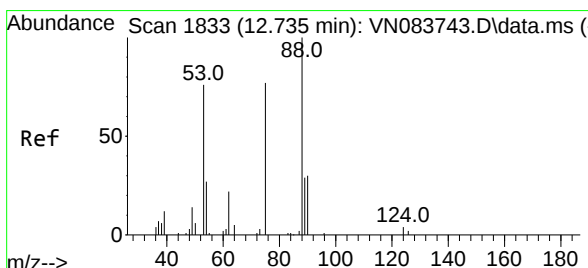
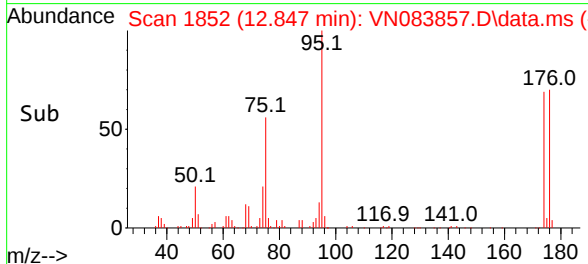
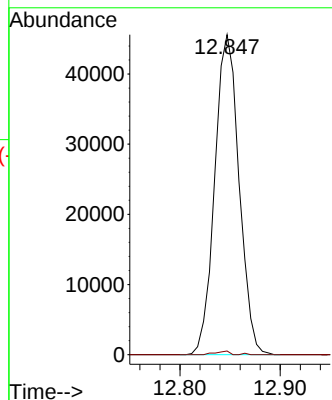
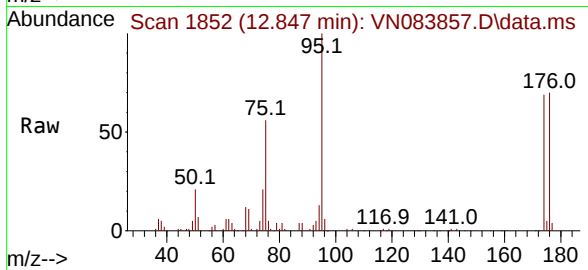
ClientSampleId :

Tgt Ion: 75 Resp: 76697

Ion Ratio Lower Upper

75 100

77 0.6 95.2 285.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.390 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN083857.D

Acq: 13 Sep 2024 06:36

Tgt Ion: 75 Resp: 76697

Ion Ratio Lower Upper

75 100

53 0.0 81.2 121.8#

89 0.0 35.7 53.5#

