

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092524\
 Data File : VN084158.D
 Acq On : 25 Sep 2024 14:35
 Operator : JC\MD
 Sample : P4116-13DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D1-20240917DL

Quant Time: Sep 26 01:34:13 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

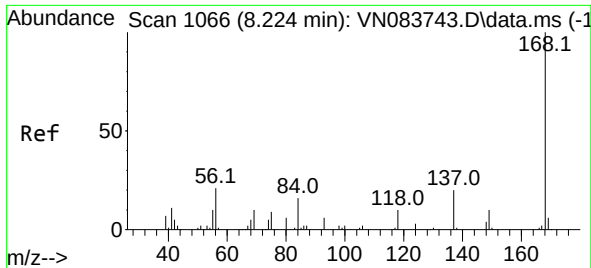
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.229	168	155147	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	272524	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	234691	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	98822	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	119089	50.906	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.820%			
35) Dibromofluoromethane	8.171	113	89528	51.315	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.640%			
50) Toluene-d8	10.565	98	328992	54.547	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 109.100%			
62) 4-Bromofluorobenzene	12.847	95	114412	45.978	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.960%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	408	Below Cal	#	41
6) Chloroethane	3.106	64	699	0.505	ug/l #	45
9) 1,1,2-Trichlorotrifluo...	4.377	101	1218	0.685	ug/l #	78
17) Carbon Disulfide	4.712	76	1205	0.257	ug/l #	75
18) Methyl Acetate	5.053	43	53	Below Cal	#	52
27) cis-1,2-Dichloroethene	7.500	96	872	0.408	ug/l	79
31) Cyclohexane	8.224	56	3962	1.172	ug/l #	8
36) 1,1-Dichloropropene	8.224	75	14106	5.372	ug/l #	50
38) Carbon Tetrachloride	8.224	117	17354	5.825	ug/l #	17
44) Trichloroethene	9.353	130	51596	28.190	ug/l	100
49) 1,4-Dioxane	9.700	88	60	1.780	ug/l #	14
51) 4-Methyl-2-Pentanone	10.565	43	1546	0.658	ug/l #	1
60) Dibromochloromethane	11.100	129	2400	1.188	ug/l #	10
64) Tetrachloroethene	11.100	164	2537	1.626	ug/l #	77
76) 1,2,3-Trichloropropane	12.847	75	64034	32.113	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	64034	84.106	ug/l #	9
87) 1,3-Dichlorobenzene	13.729	146	823	0.237	ug/l	83
88) 1,4-Dichlorobenzene	13.729	146	823	0.234	ug/l	82
89) n-Butylbenzene	14.059	91	1550	0.275	ug/l	90
91) 1,2-Dichlorobenzene	14.100	146	882	0.263	ug/l #	76
93) 1,2,4-Trichlorobenzene	15.388	180	804	0.447	ug/l	80
94) Hexachlorobutadiene	15.500	225	367	0.480	ug/l	90
95) Naphthalene	15.635	128	3540	0.647	ug/l #	72
96) 1,2,3-Trichlorobenzene	15.835	180	963	0.560	ug/l	95

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

Quant Time: Sep 26 01:34:13 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

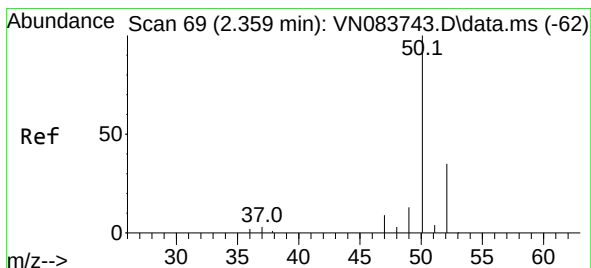
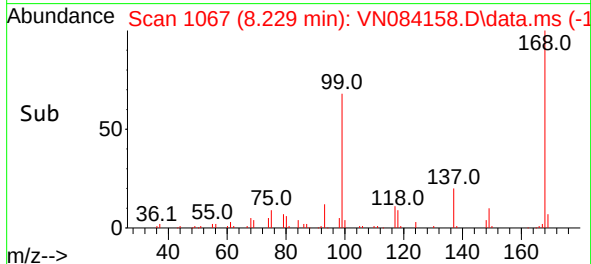
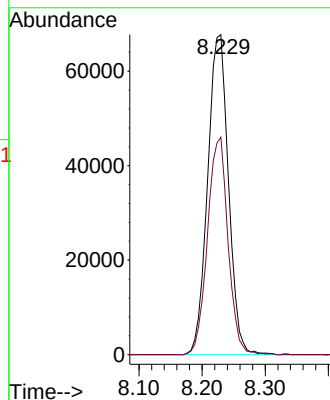
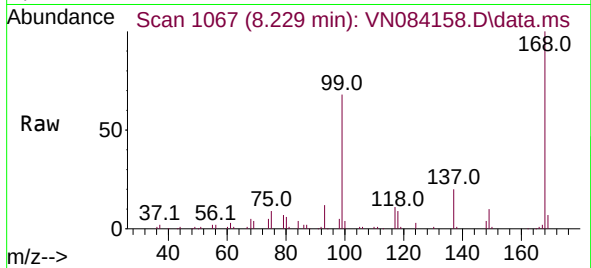




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

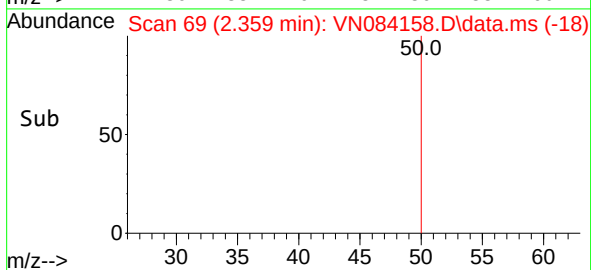
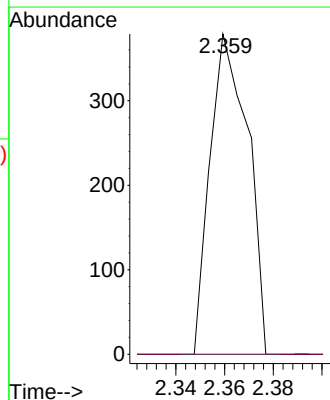
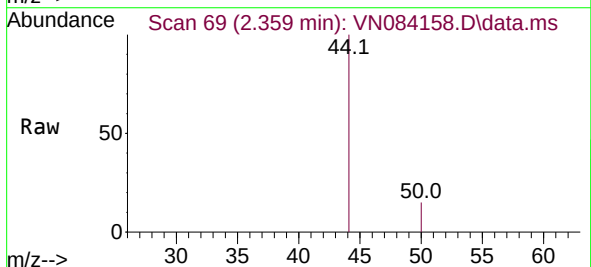
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20240917DL

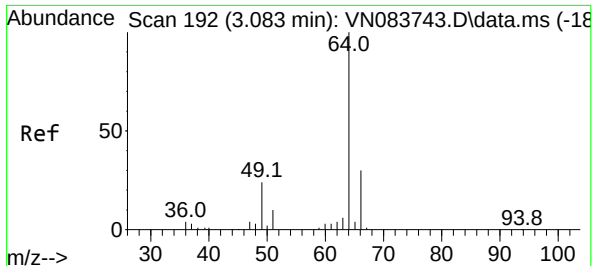
Tgt Ion:168 Resp: 155147
Ion Ratio Lower Upper
168 100
99 67.9 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

Tgt Ion: 50 Resp: 408
Ion Ratio Lower Upper
50 100
52 0.0 27.2 40.8#

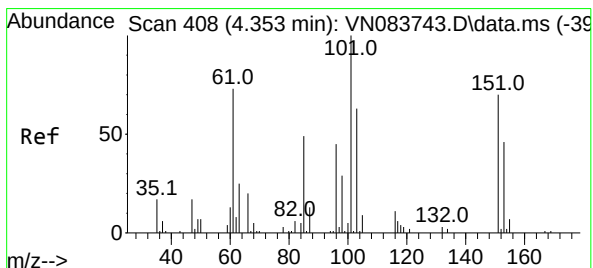
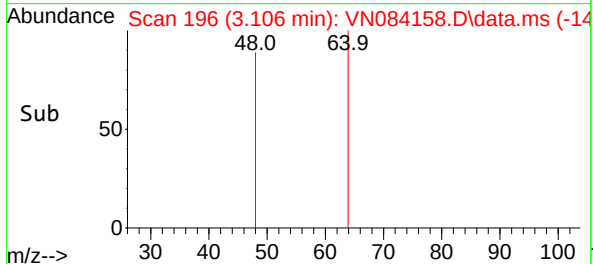
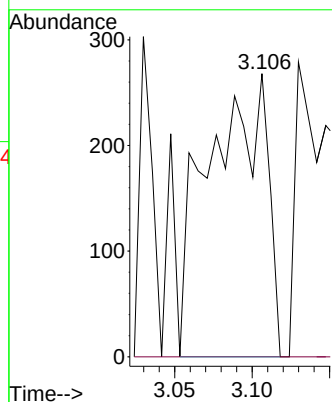
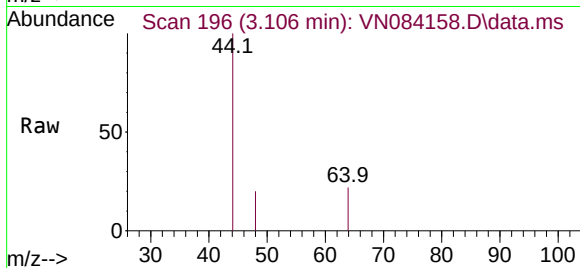




#6
Chloroethane
Concen: 0.505 ug/l
RT: 3.106 min Scan# 196
Delta R.T. 0.023 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

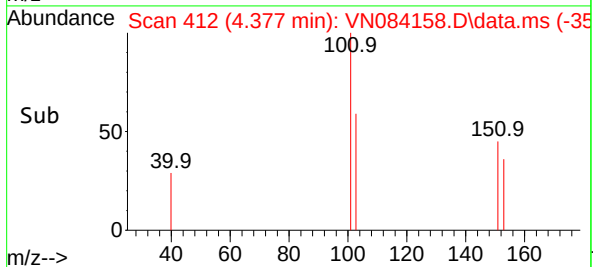
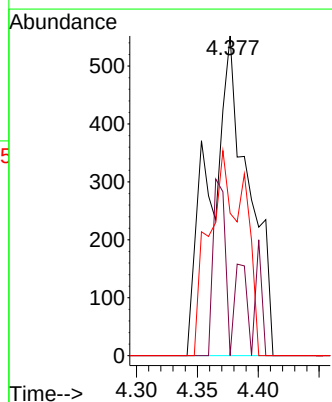
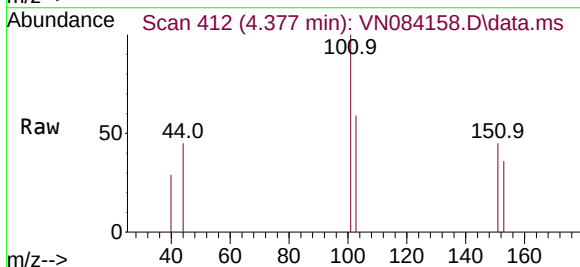
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20240917DL

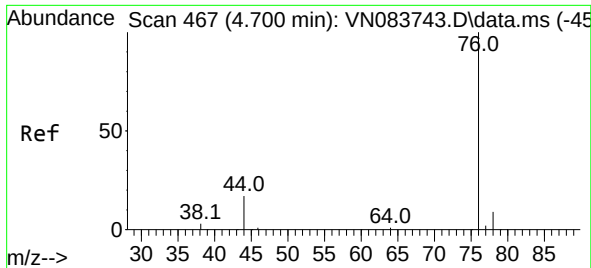
Tgt Ion: 64 Resp: 699
Ion Ratio Lower Upper
64 100
66 0.0 23.9 35.9#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.685 ug/l
RT: 4.377 min Scan# 412
Delta R.T. 0.023 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

Tgt Ion:101 Resp: 1218
Ion Ratio Lower Upper
101 100
85 26.1 36.2 54.4#
151 57.8 57.7 86.5





#17

Carbon Disulfide

Concen: 0.257 ug/l

RT: 4.712 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN084158.D

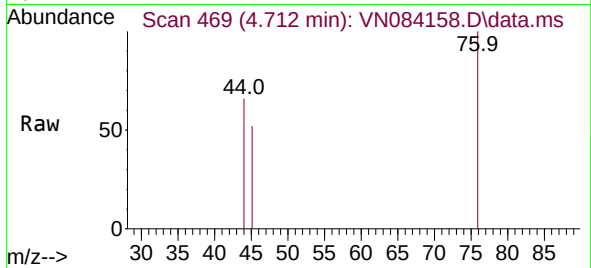
Acq: 25 Sep 2024 14:35

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20240917DL

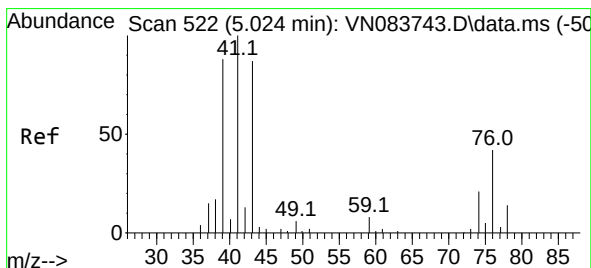
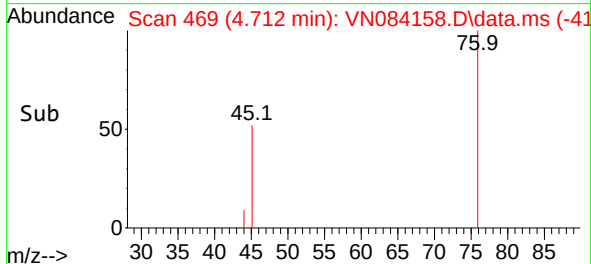
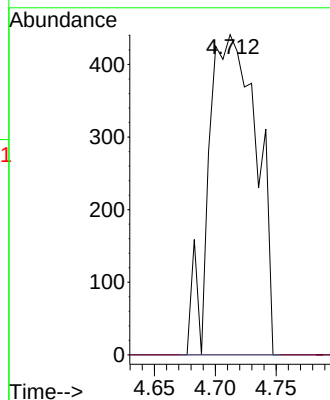


Tgt Ion: 76 Resp: 1205

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#18

Methyl Acetate

Concen: Below Cal

RT: 5.053 min Scan# 527

Delta R.T. 0.029 min

Lab File: VN084158.D

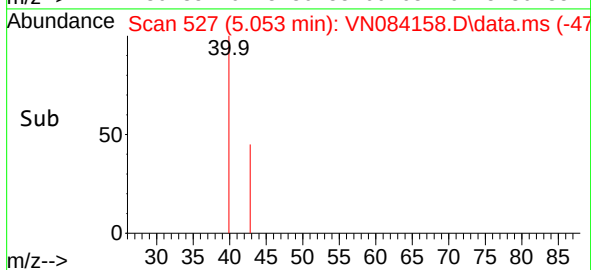
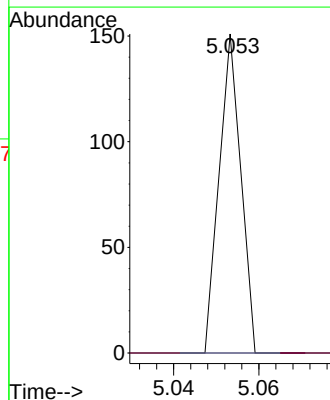
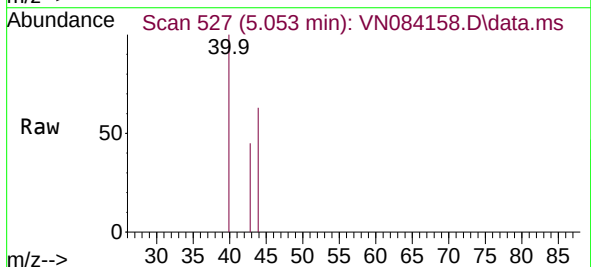
Acq: 25 Sep 2024 14:35

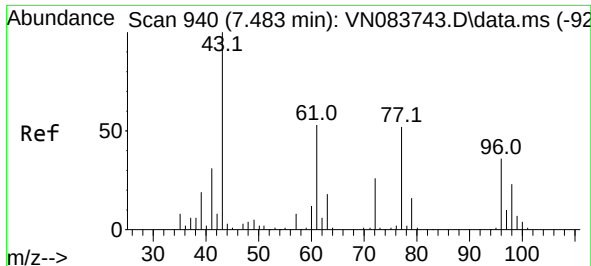
Tgt Ion: 43 Resp: 53

Ion Ratio Lower Upper

43 100

74 0.0 19.0 28.4#





#27

cis-1,2-Dichloroethene

Concen: 0.408 ug/l

RT: 7.500 min Scan# 94

Delta R.T. 0.018 min

Lab File: VN084158.D

Acq: 25 Sep 2024 14:35

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20240917DL

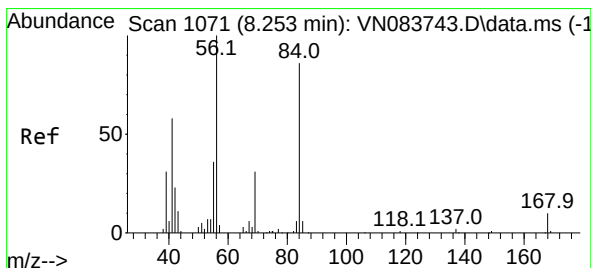
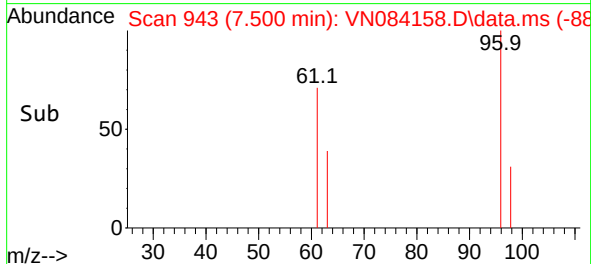
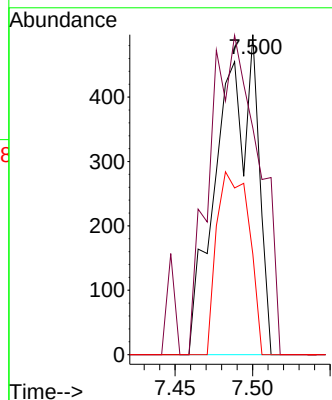
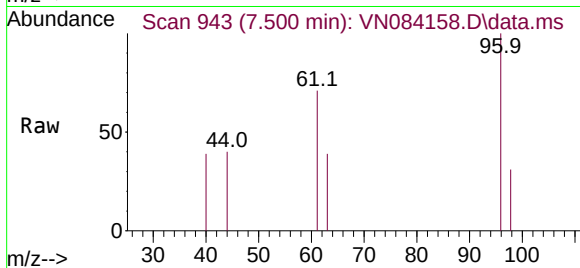
Tgt Ion: 96 Resp: 872

Ion Ratio Lower Upper

96 100

61 126.0 0.0 306.2

98 47.1 0.0 128.6



#31

Cyclohexane

Concen: 1.172 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN084158.D

Acq: 25 Sep 2024 14:35

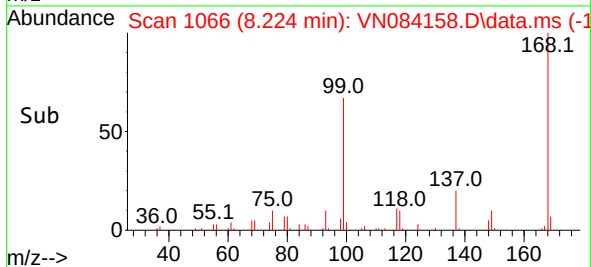
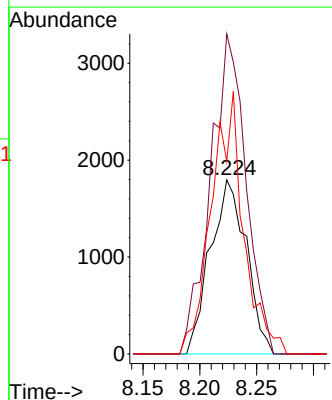
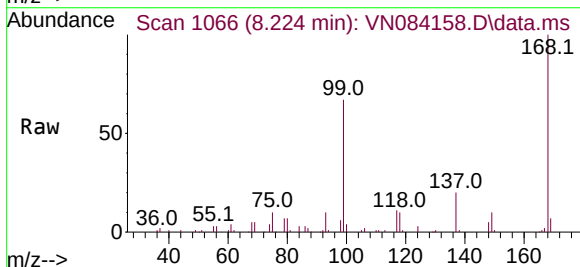
Tgt Ion: 56 Resp: 3962

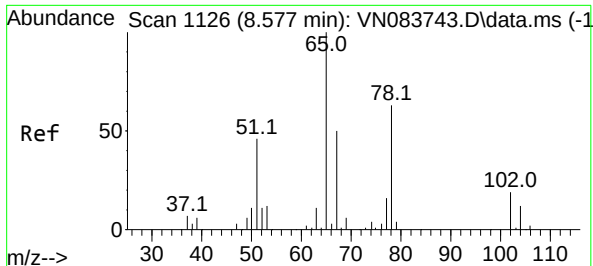
Ion Ratio Lower Upper

56 100

69 183.8 26.9 40.3#

84 110.5 69.2 103.8#





#33

1,2-Dichloroethane-d4

Concen: 50.906 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084158.D

Acq: 25 Sep 2024 14:35

Instrument :

MSVOA_N

ClientSampleId :

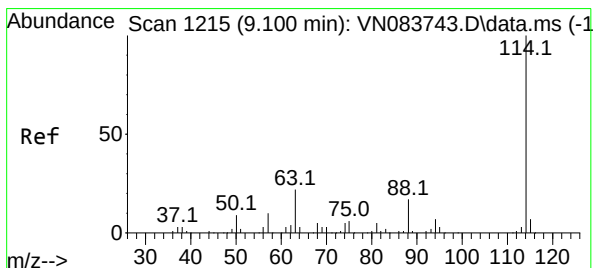
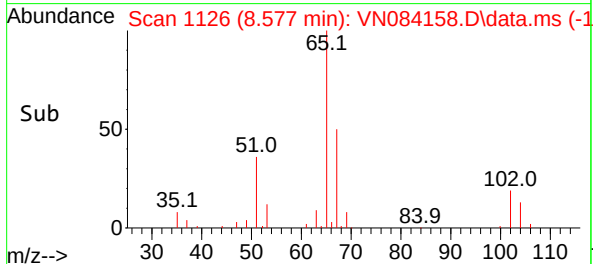
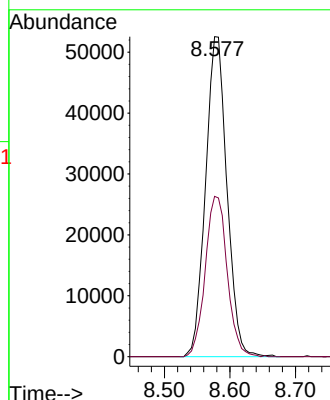
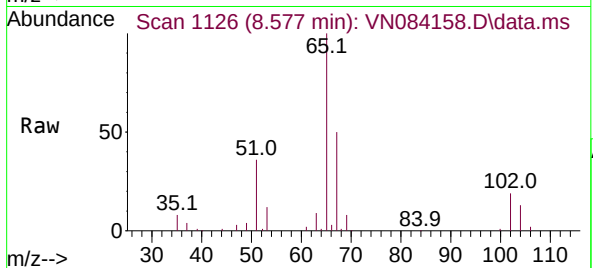
RE125D1-20240917DL

Tgt Ion: 65 Resp: 119089

Ion Ratio Lower Upper

65 100

67 51.5 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN084158.D

Acq: 25 Sep 2024 14:35

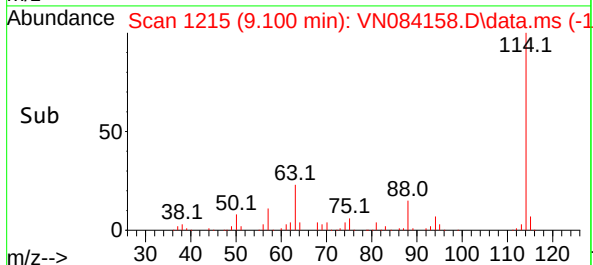
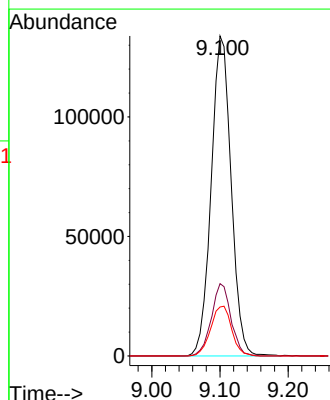
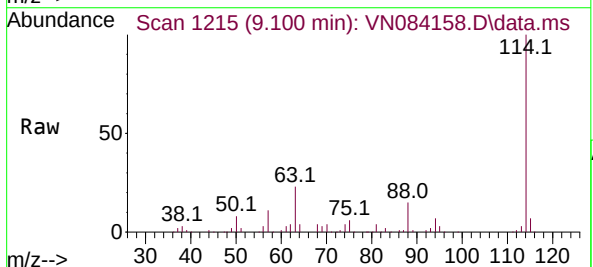
Tgt Ion: 114 Resp: 272524

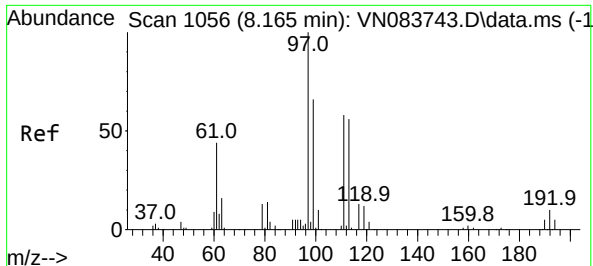
Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.4

88 15.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.315 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN084158.D

Acq: 25 Sep 2024 14:35

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20240917DL

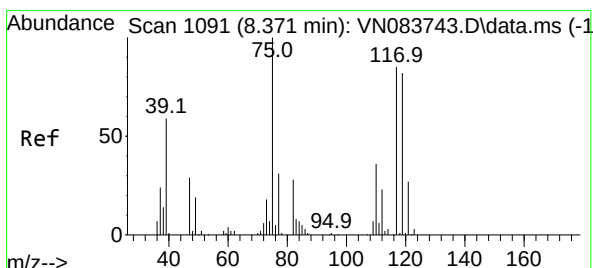
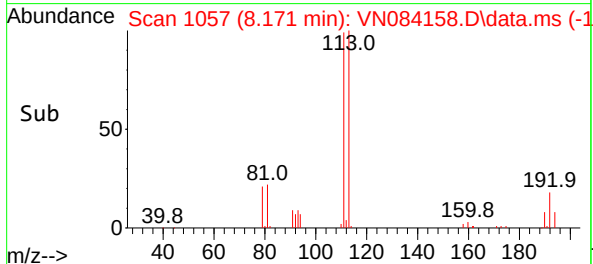
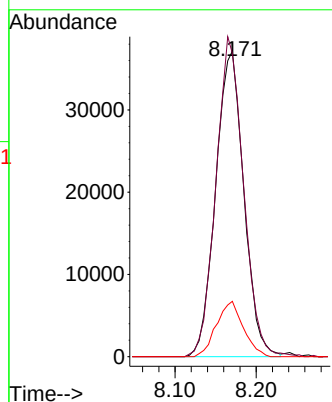
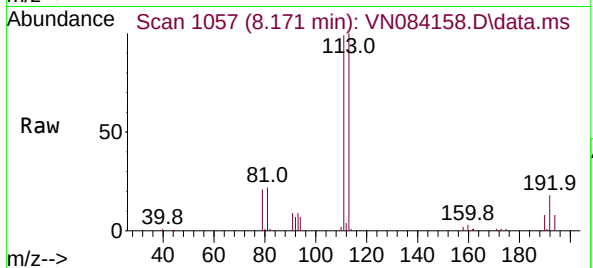
Tgt Ion:113 Resp: 89528

Ion Ratio Lower Upper

113 100

111 102.4 82.6 124.0

192 17.3 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.372 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084158.D

Acq: 25 Sep 2024 14:35

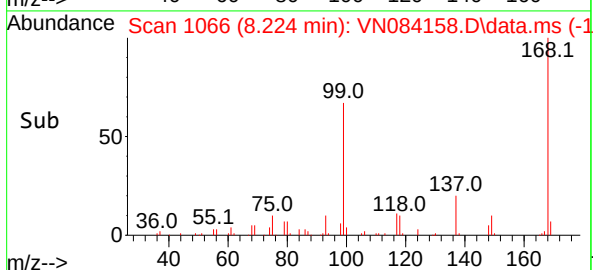
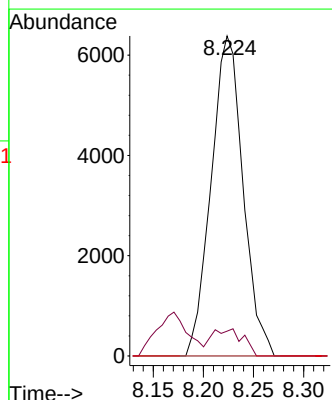
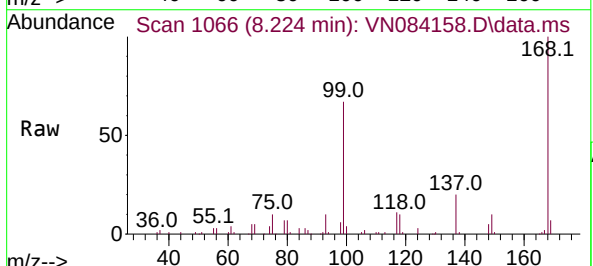
Tgt Ion: 75 Resp: 14106

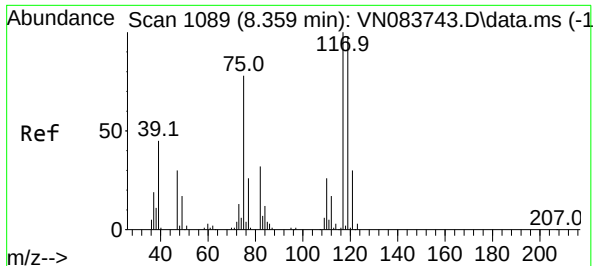
Ion Ratio Lower Upper

75 100

110 8.2 16.7 50.1#

77 0.0 25.2 37.8#

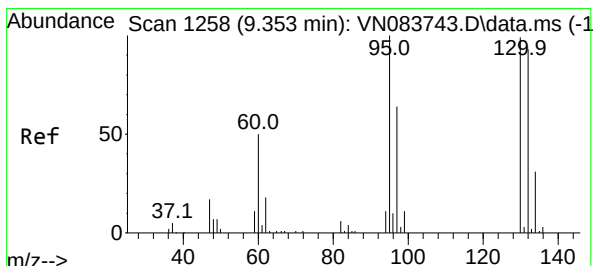
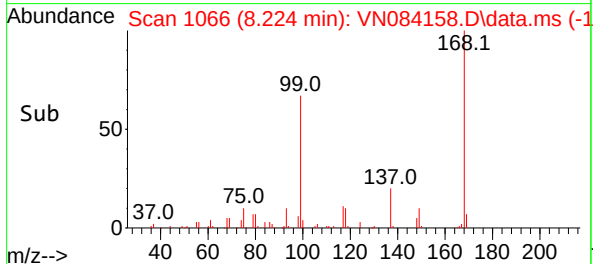
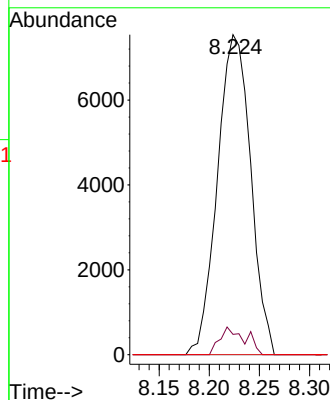
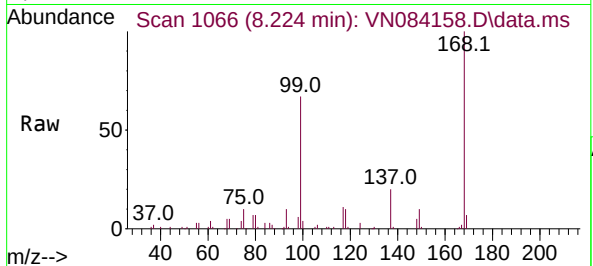




#38
Carbon Tetrachloride
Concen: 5.825 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

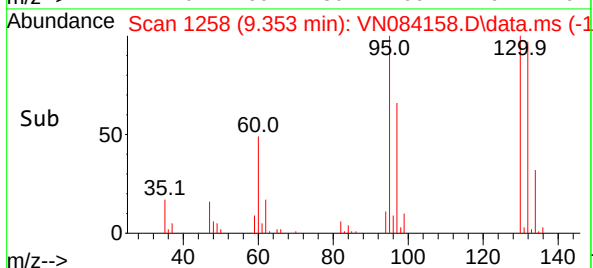
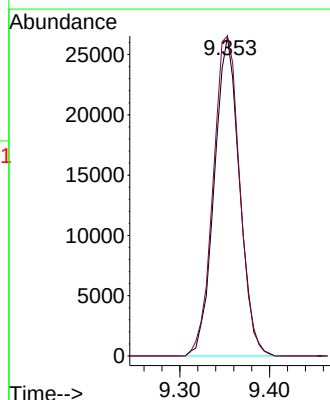
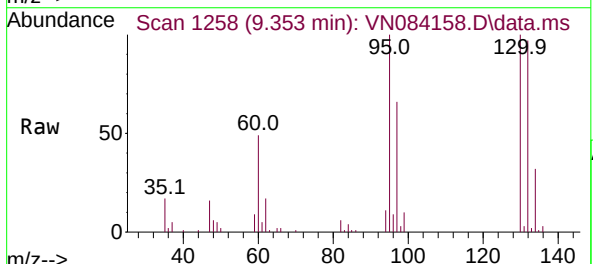
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20240917DL

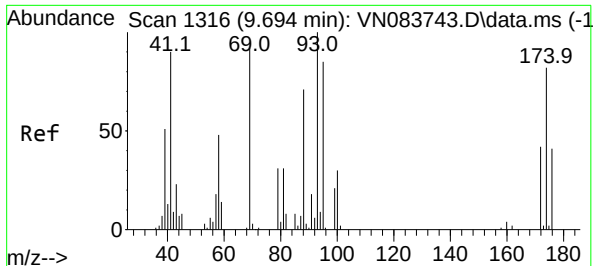
Tgt Ion:117 Resp: 17354
Ion Ratio Lower Upper
117 100
119 6.3 76.1 114.1#
121 0.0 24.1 36.1#



#44
Trichloroethene
Concen: 28.190 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.000 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

Tgt Ion:130 Resp: 51596
Ion Ratio Lower Upper
130 100
95 100.4 0.0 200.4





#49

1,4-Dioxane

Concen: 1.780 ug/l

RT: 9.700 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN084158.D

Acq: 25 Sep 2024 14:35

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20240917DL

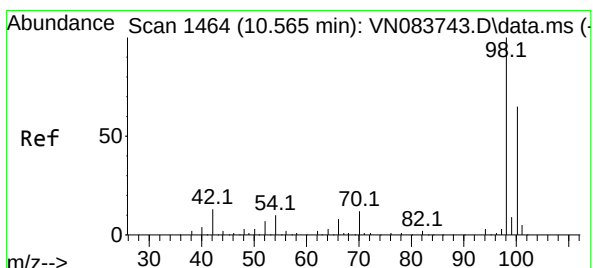
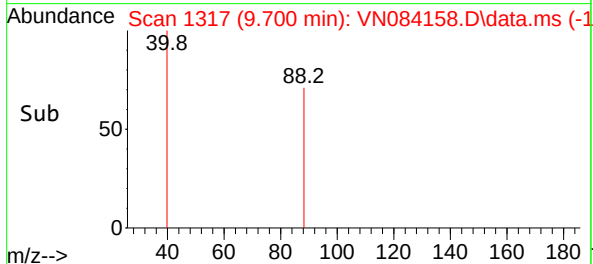
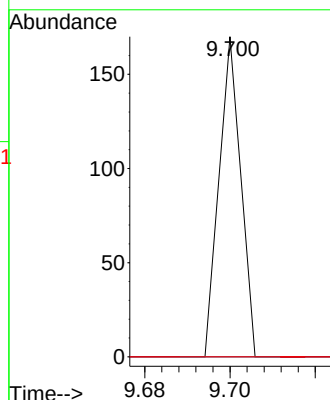
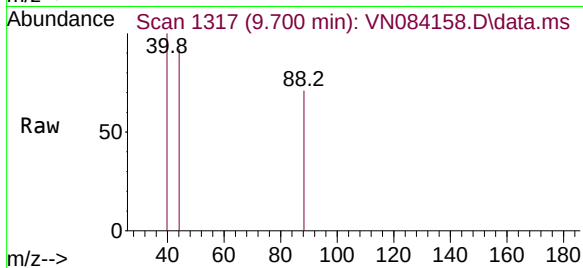
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 57.1 85.7#



#50

Toluene-d8

Concen: 54.547 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084158.D

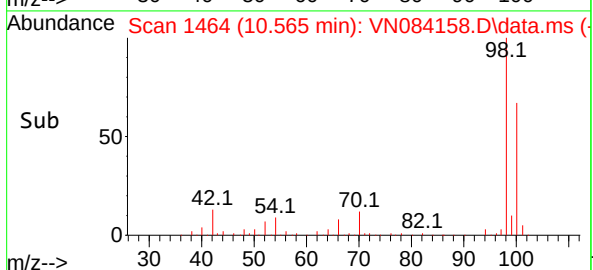
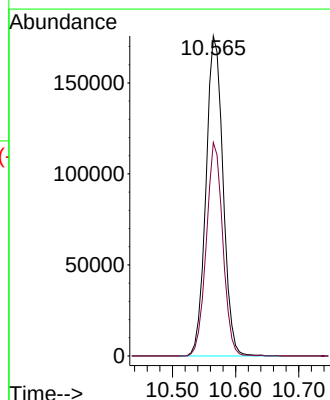
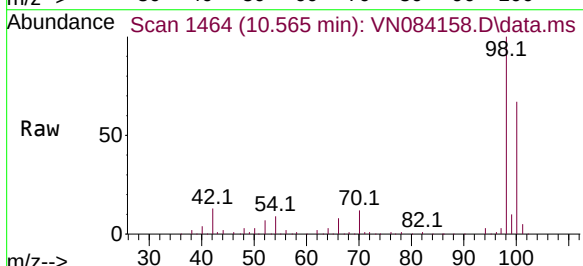
Acq: 25 Sep 2024 14:35

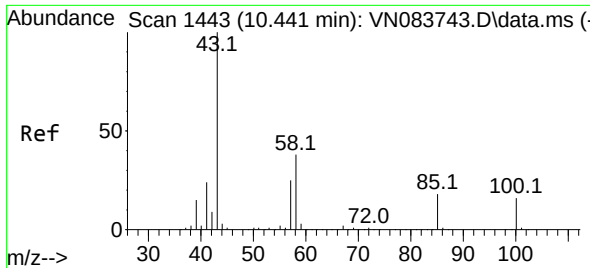
Tgt Ion: 98 Resp: 328992

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0

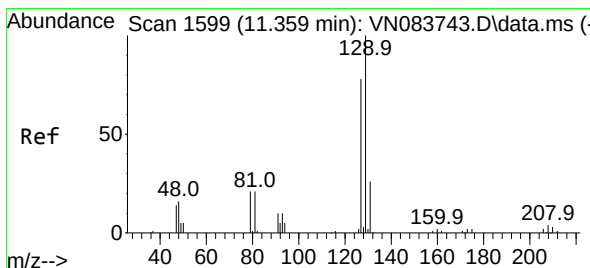
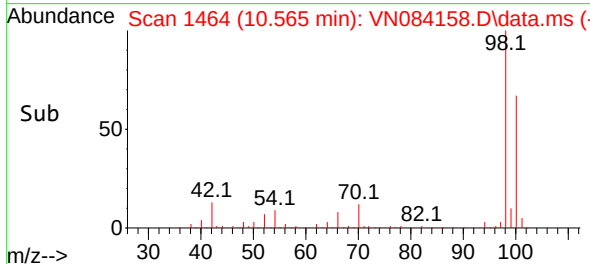
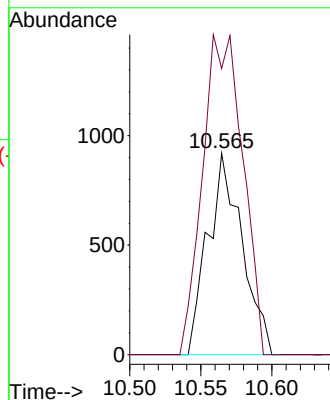
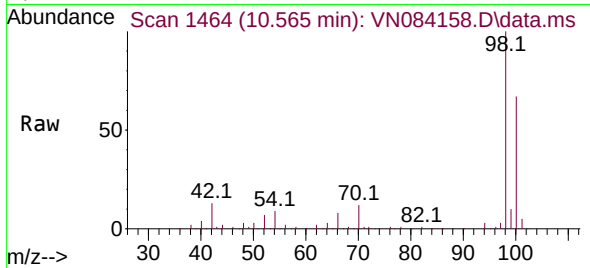




#51
4-Methyl-2-Pentanone
Concen: 0.658 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.123 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

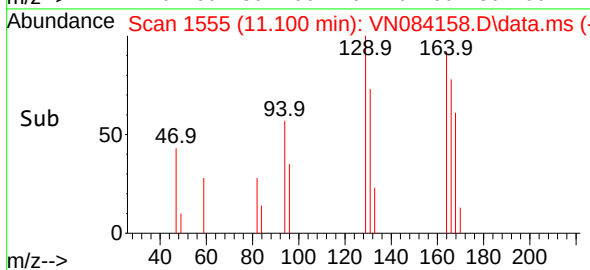
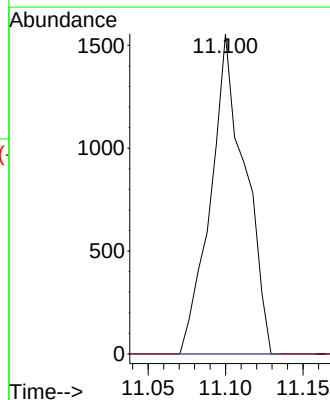
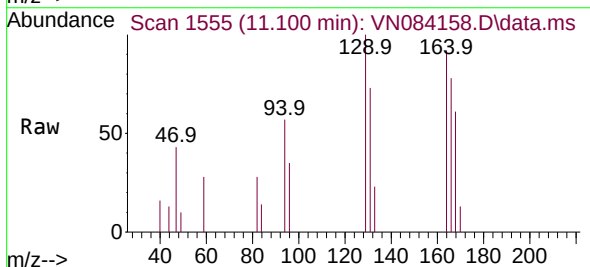
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20240917DL

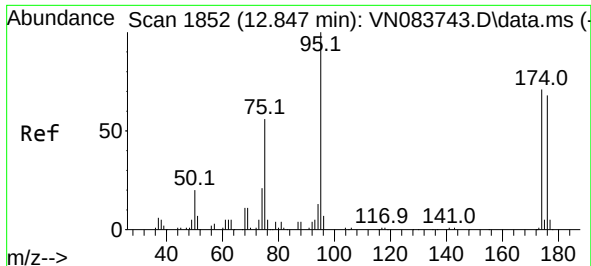
Tgt Ion: 43 Resp: 1546
Ion Ratio Lower Upper
43 100
58 186.4 31.6 47.4#



#60
Dibromochloromethane
Concen: 1.188 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.259 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

Tgt Ion: 129 Resp: 2400
Ion Ratio Lower Upper
129 100
127 0.0 39.0 116.9#

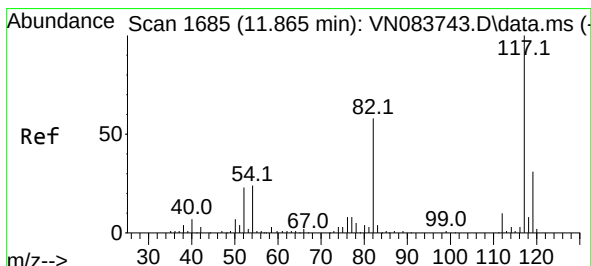
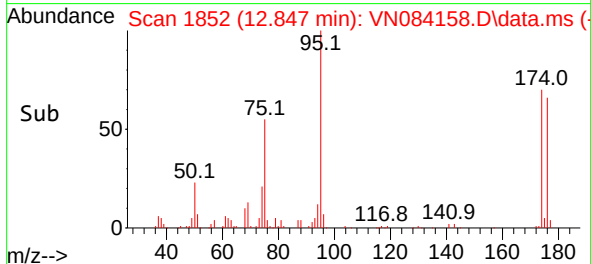
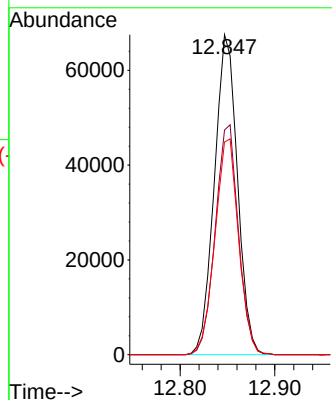
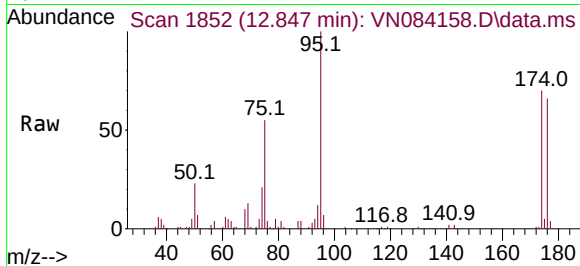




#62
4-Bromofluorobenzene
Concen: 45.978 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

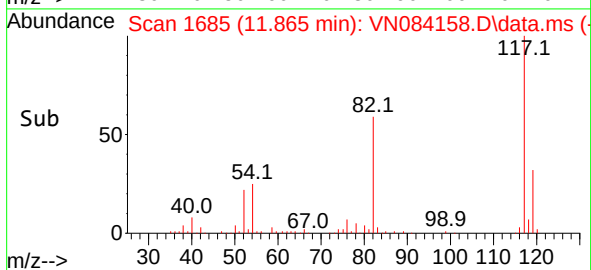
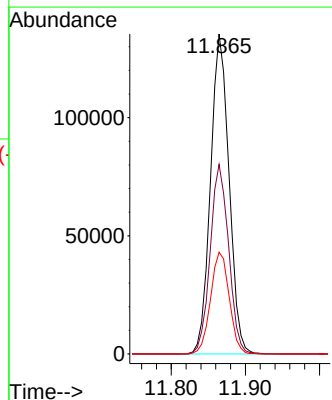
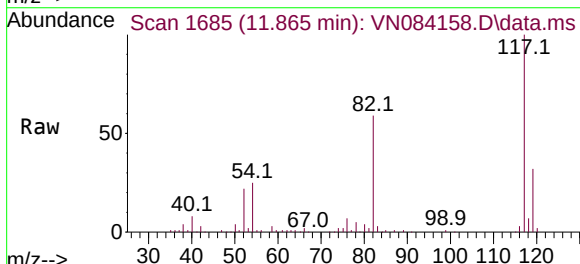
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20240917DL

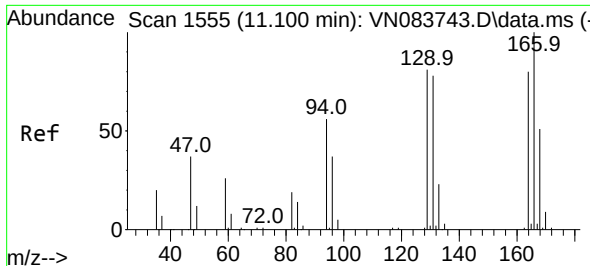
Tgt Ion: 95 Resp: 114412
Ion Ratio Lower Upper
95 100
174 72.0 0.0 139.8
176 69.2 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

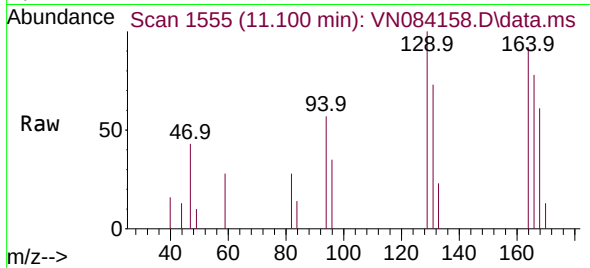
Tgt Ion: 117 Resp: 234691
Ion Ratio Lower Upper
117 100
82 59.3 47.4 71.0
119 31.8 26.3 39.5



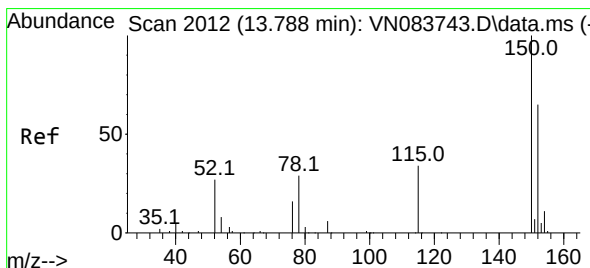
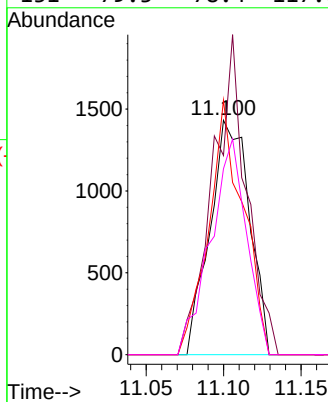
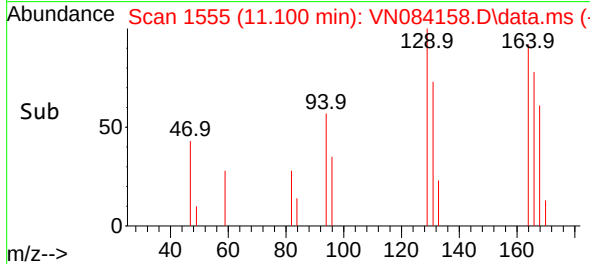


#64
Tetrachloroethene
Concen: 1.626 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

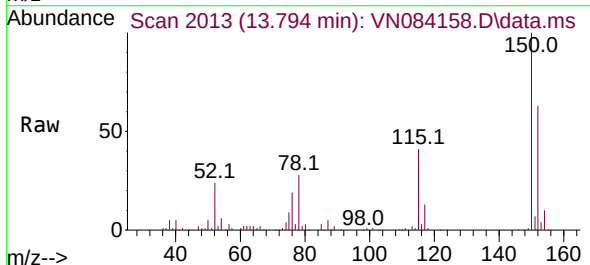
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20240917DL



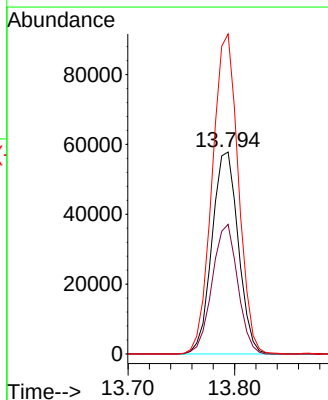
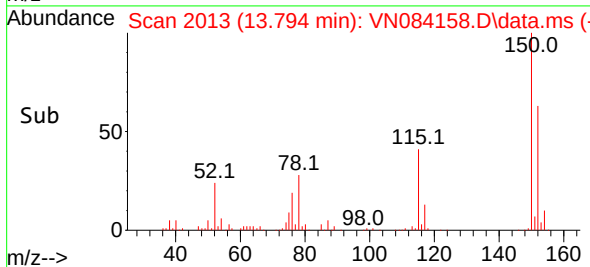
Tgt Ion:164 Resp: 2537
Ion Ratio Lower Upper
164 100
166 85.0 103.7 155.5#
129 108.6 79.9 119.9
131 79.3 78.4 117.6

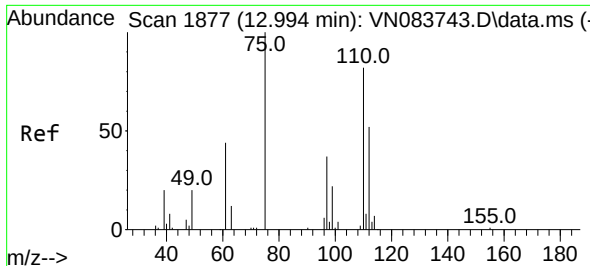


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35



Tgt Ion:152 Resp: 98822
Ion Ratio Lower Upper
152 100
115 62.7 32.2 96.6
150 157.7 0.0 348.6

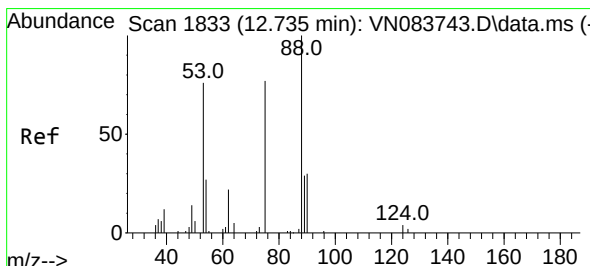
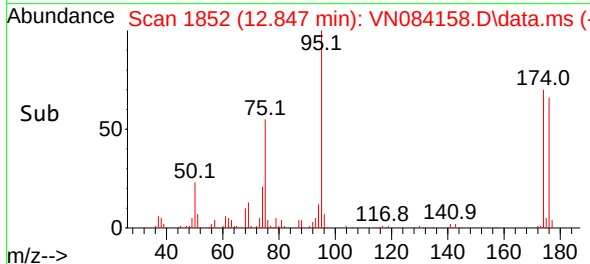
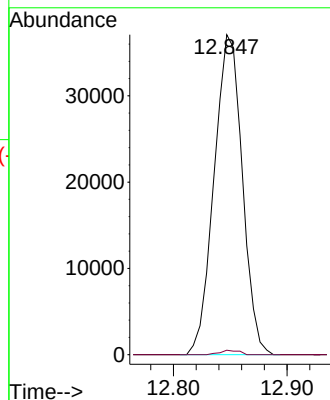
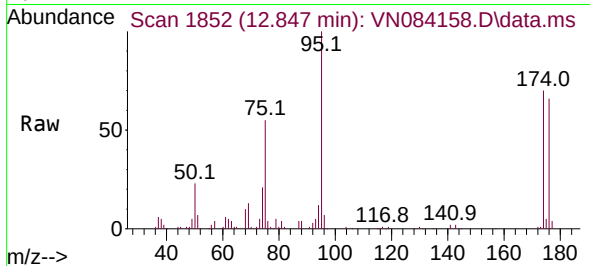




#76
1,2,3-Trichloropropane
Concen: 32.113 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

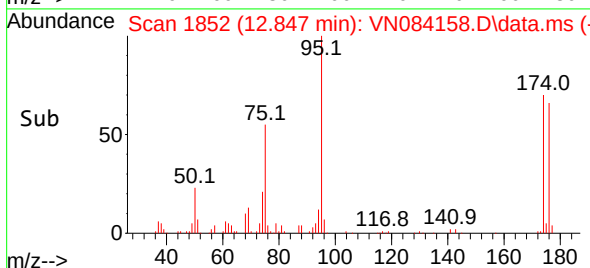
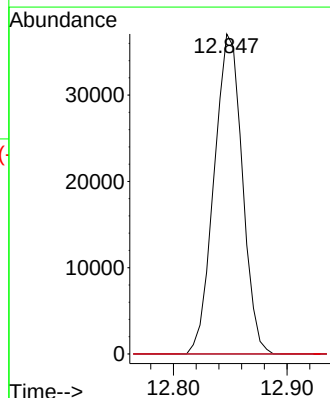
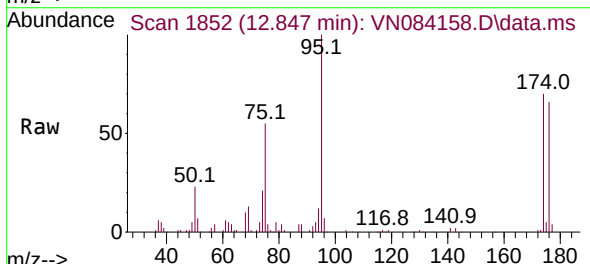
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20240917DL

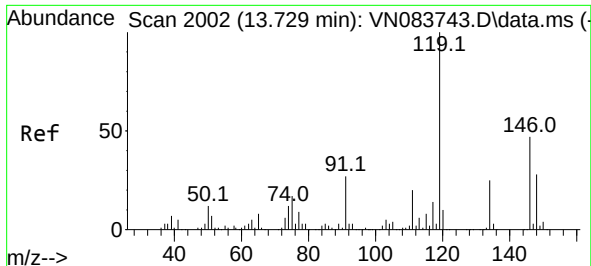
Tgt Ion: 75 Resp: 64034
Ion Ratio Lower Upper
75 100
77 0.9 95.2 285.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 84.106 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

Tgt Ion: 75 Resp: 64034
Ion Ratio Lower Upper
75 100
53 0.0 81.2 121.8#
89 0.0 35.7 53.5#





#87

1,3-Dichlorobenzene

Concen: 0.237 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN084158.D

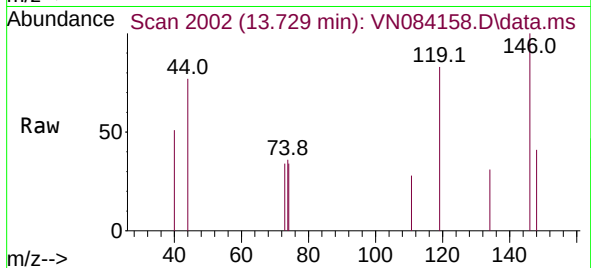
Acq: 25 Sep 2024 14:35

Instrument :

MSVOA_N

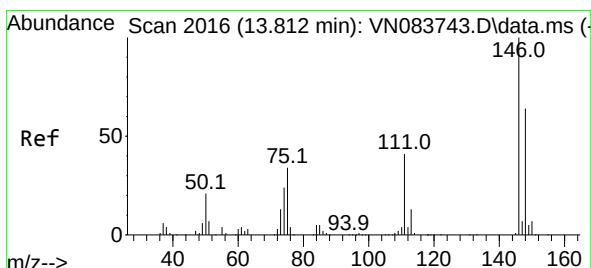
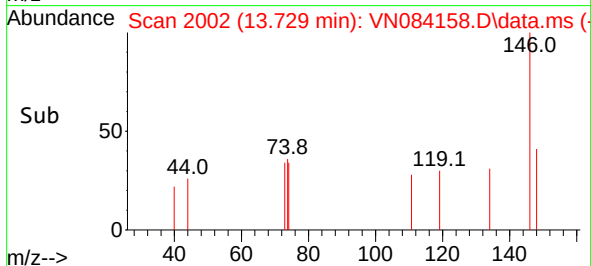
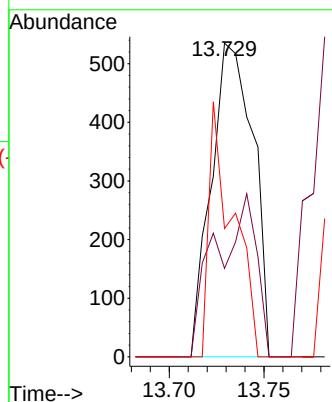
ClientSampleId :

RE125D1-20240917DL



Tgt Ion:146 Resp: 823

Ion	Ratio	Lower	Upper
146	100		
111	50.1	21.7	65.1
148	46.5	31.7	95.1



#88

1,4-Dichlorobenzene

Concen: 0.234 ug/l

RT: 13.729 min Scan# 2002

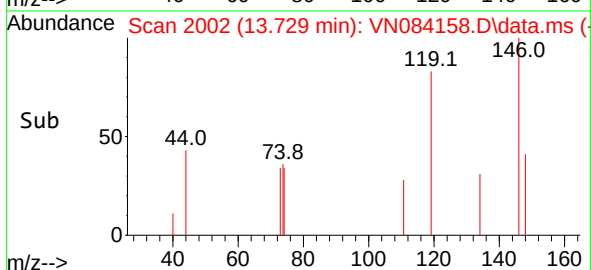
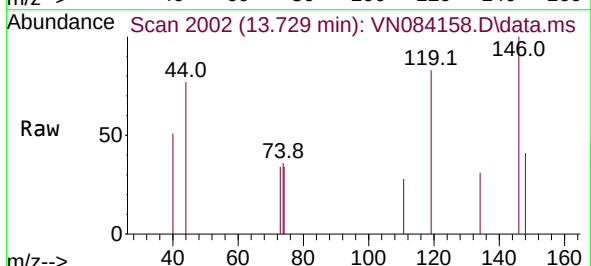
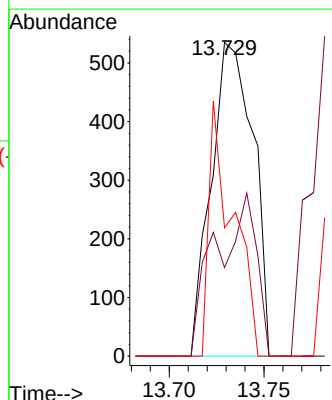
Delta R.T. -0.082 min

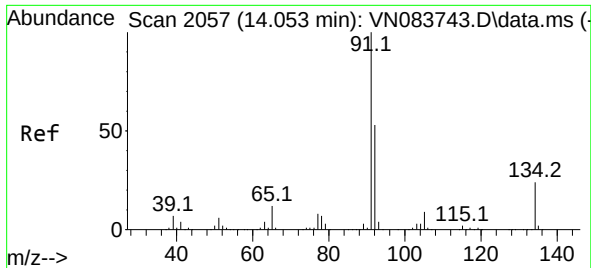
Lab File: VN084158.D

Acq: 25 Sep 2024 14:35

Tgt Ion:146 Resp: 823

Ion	Ratio	Lower	Upper
146	100		
111	50.1	21.3	64.0
148	46.5	32.0	96.2

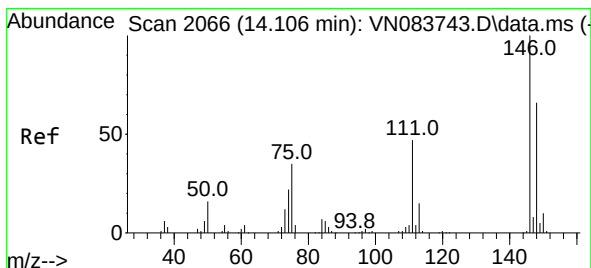
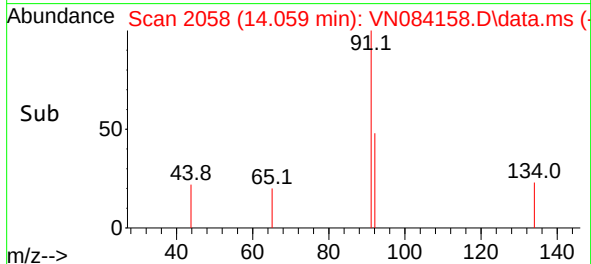
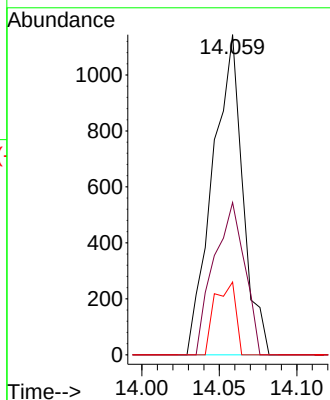
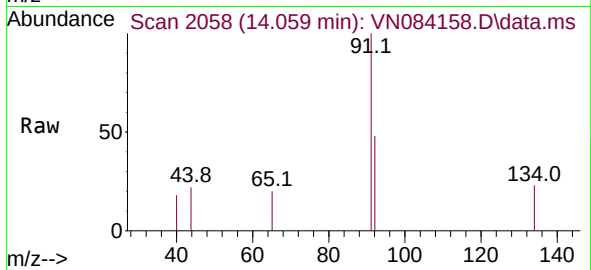




#89
n-Butylbenzene
Concen: 0.275 ug/l
RT: 14.059 min Scan# 2057
Delta R.T. 0.006 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

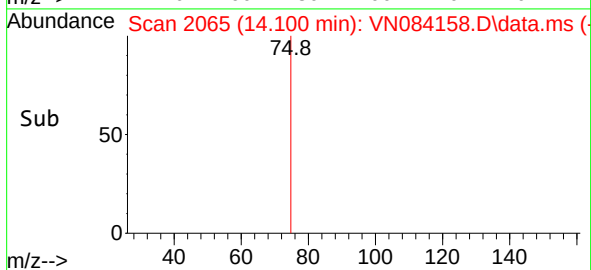
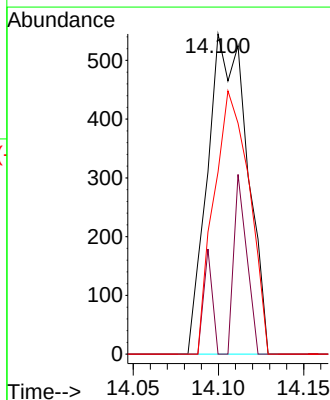
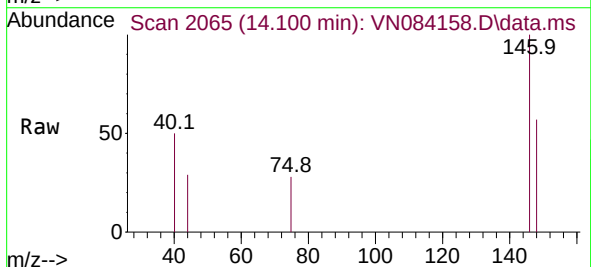
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20240917DL

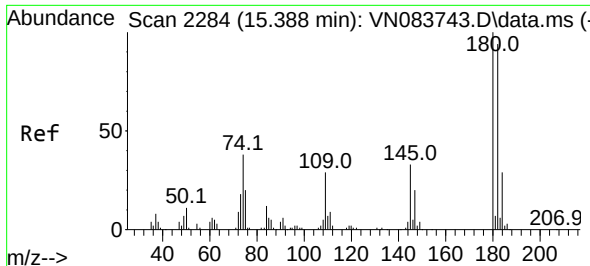
Tgt Ion:	91	Resp:	1550
Ion	Ratio	Lower	Upper
91	100		
92	48.5	26.7	80.1
134	15.7	12.2	36.4



#91
1,2-Dichlorobenzene
Concen: 0.263 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VN084158.D
Acq: 25 Sep 2024 14:35

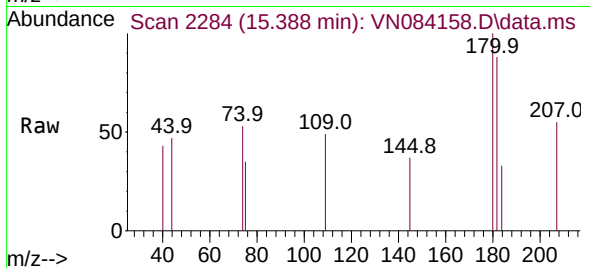
Tgt Ion:	146	Resp:	882
Ion	Ratio	Lower	Upper
146	100		
111	18.3	22.8	68.3#
148	73.2	32.1	96.5



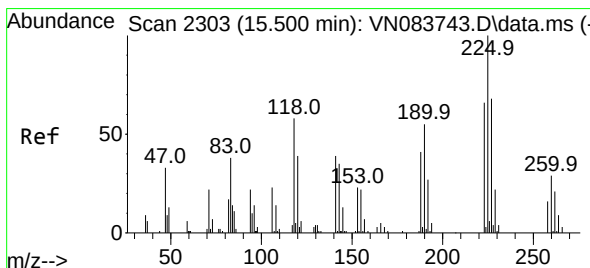
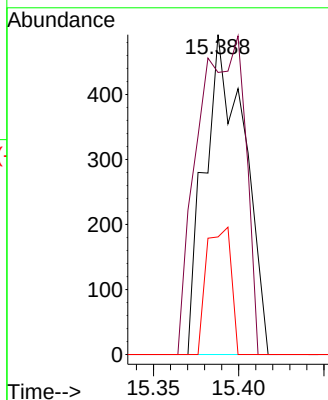
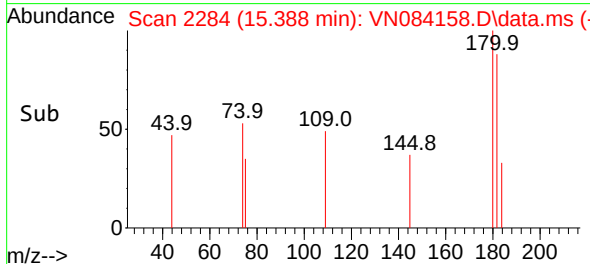


#93
 1,2,4-Trichlorobenzene
 Concen: 0.447 ug/l
 RT: 15.388 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN084158.D
 Acq: 25 Sep 2024 14:35

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D1-20240917DL

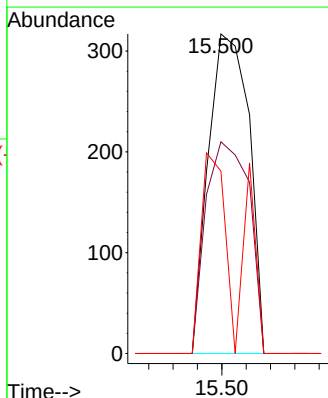
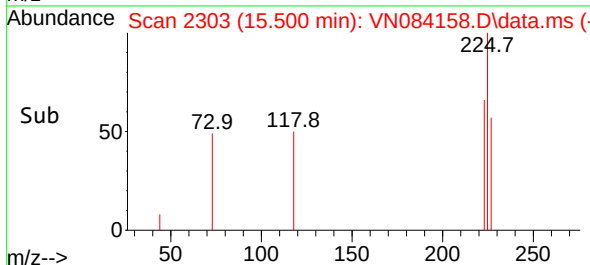
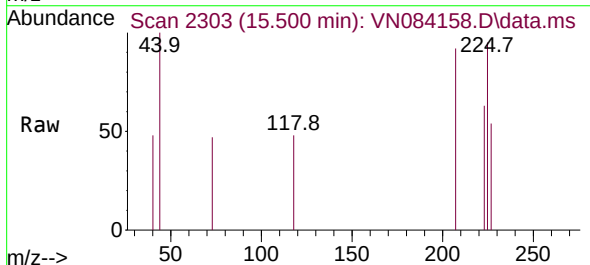


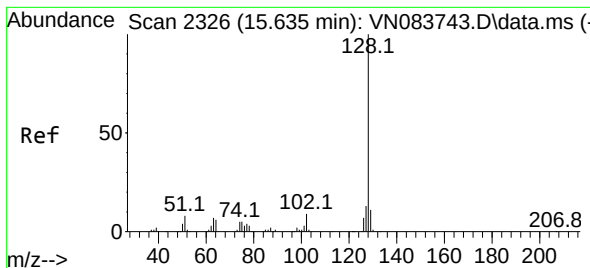
Tgt Ion:180 Resp: 804
 Ion Ratio Lower Upper
 180 100
 182 116.8 48.1 144.3
 145 24.4 16.9 50.7



#94
 Hexachlorobutadiene
 Concen: 0.480 ug/l
 RT: 15.500 min Scan# 2303
 Delta R.T. -0.000 min
 Lab File: VN084158.D
 Acq: 25 Sep 2024 14:35

Tgt Ion:225 Resp: 367
 Ion Ratio Lower Upper
 225 100
 223 70.6 31.9 95.5
 227 54.8 32.0 96.2





#95

Naphthalene

Concen: 0.647 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN084158.D

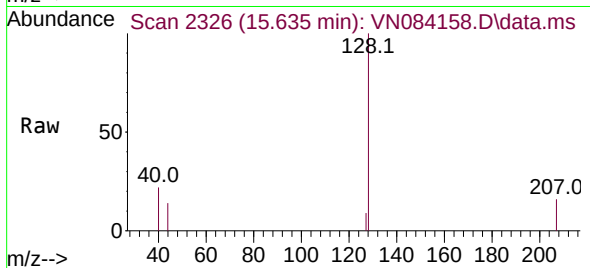
Acq: 25 Sep 2024 14:35

Instrument :

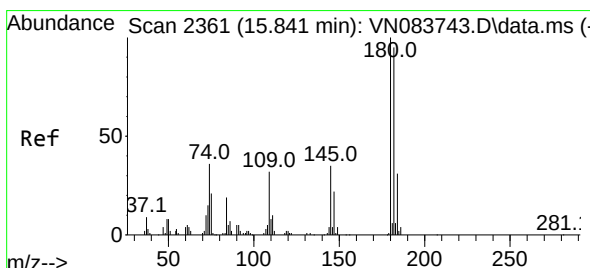
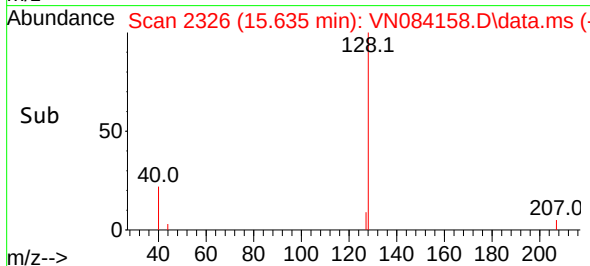
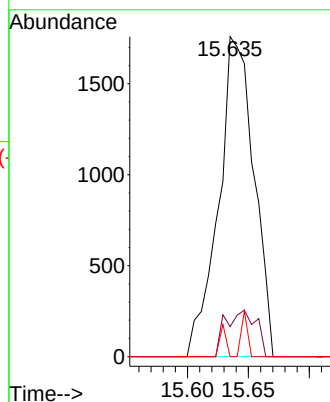
MSVOA_N

ClientSampleId :

RE125D1-20240917DL



Tgt Ion:	128	Resp:	3540
Ion Ratio	Lower	Upper	
128	100		
127	0.0	10.2	15.2#
129	1.8	8.7	13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.560 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.006 min

Lab File: VN084158.D

Acq: 25 Sep 2024 14:35

Tgt Ion:	180	Resp:	963
Ion Ratio	Lower	Upper	
180	100		
182	89.5	47.1	141.4
145	38.3	17.8	53.5

