

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
 Data File : VN084226.D
 Acq On : 30 Sep 2024 18:54
 Operator : JC\MD
 Sample : P4116-25
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 01 07:16:01 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

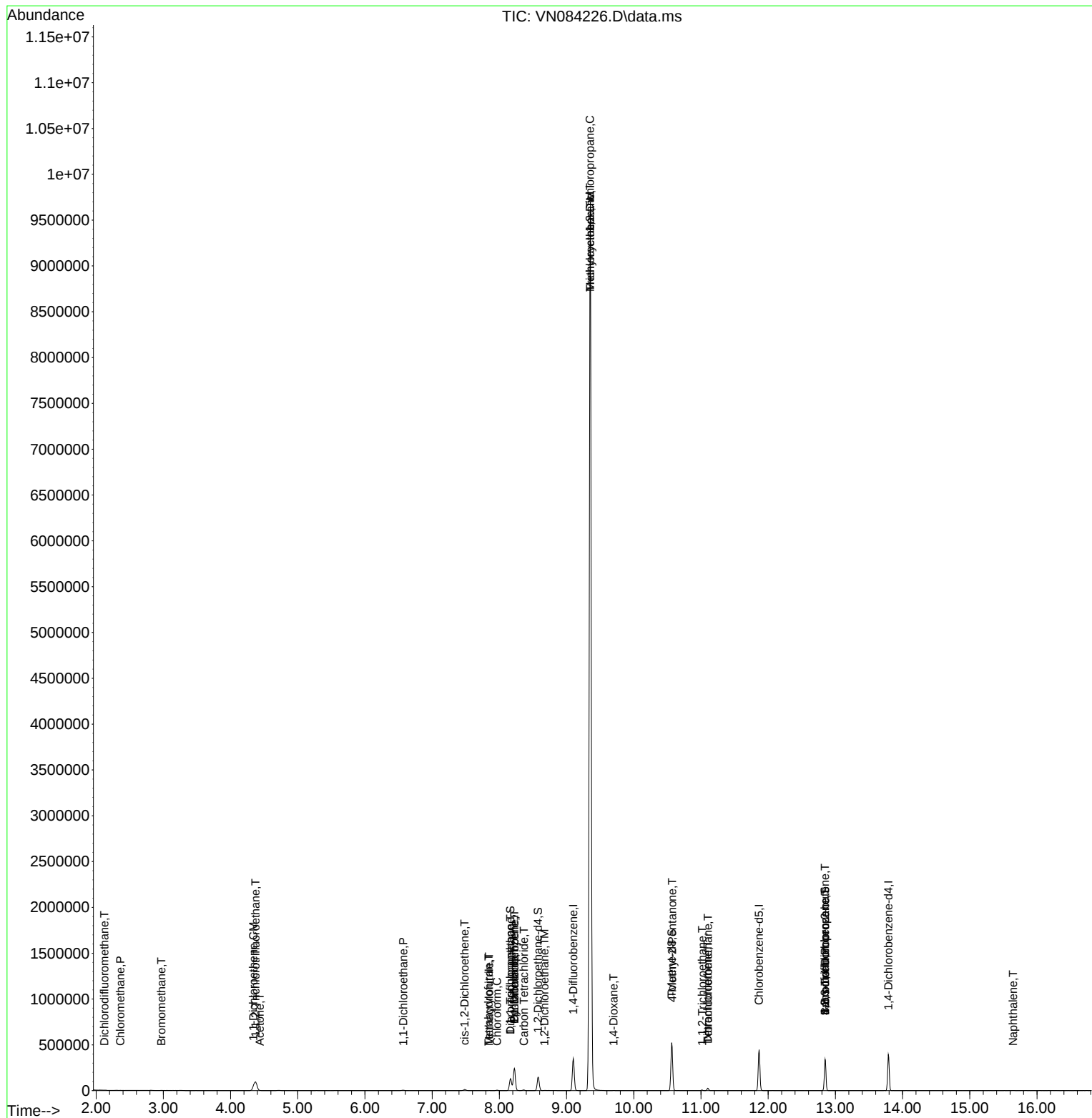
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

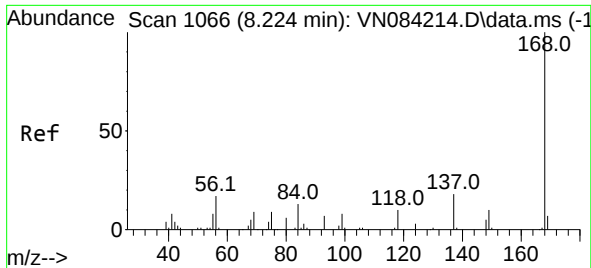
Internal Standards						
1) Pentafluorobenzene	8.224	168	169412	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	292558	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	251910	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	103173	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122676	48.839	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.680%		
35) Dibromofluoromethane	8.165	113	93693	48.578	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.160%		
50) Toluene-d8	10.565	98	355156	50.050	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.100%		
62) 4-Bromofluorobenzene	12.847	95	117331	45.387	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	90.780%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	1105	0.551	ug/l	95
3) Chloromethane	2.359	50	1470	0.642	ug/l	98
5) Bromomethane	2.971	94	310	0.212	ug/l #	74
9) 1,1,2-Trichlorotrifluo...	4.371	101	60507	30.597	ug/l	98
12) 1,1-Dichloroethene	4.342	96	18774	9.842	ug/l	93
16) Acetone	4.436	43	1096	1.016	ug/l #	44
24) 1,1-Dichloroethane	6.571	63	7091	1.851	ug/l #	83
27) cis-1,2-Dichloroethene	7.483	96	7542	3.123	ug/l	85
29) Tetrahydrofuran	7.841	42	609	0.671	ug/l #	52
30) Chloroform	7.965	83	5023	1.262	ug/l #	73
31) Cyclohexane	8.224	56	4296	1.155	ug/l #	8
32) 1,1,1-Trichloroethane	8.165	97	1389	0.389	ug/l #	51
36) 1,1-Dichloropropene	8.224	75	14801	5.283	ug/l #	51
38) Carbon Tetrachloride	8.365	117	5462	1.777	ug/l #	96
39) Methylcyclohexane	9.353	83	43333	13.898	ug/l #	1
41) Methacrylonitrile	7.847	41	396	0.254	ug/l #	24
42) 1,2-Dichloroethane	8.671	62	1213	0.410	ug/l #	75
44) Trichloroethene	9.353	130	3301317	1619.355	ug/l	94
45) 1,2-Dichloropropane	9.347	63	10925	5.291	ug/l #	1
49) 1,4-Dioxane	9.700	88	944	22.881	ug/l #	77
51) 4-Methyl-2-Pentanone	10.571	43	1619	0.592	ug/l #	1
55) 1,1,2-Trichloroethane	11.018	97	2689	1.409	ug/l #	90
60) Dibromochloromethane	11.106	129	5836	2.589	ug/l #	11
64) Tetrachloroethene	11.100	164	5878	3.350	ug/l	93
71) Bromoform	12.847	173	694	0.490	ug/l #	30
76) 1,2,3-Trichloropropane	12.847	75	63065	29.941	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	63065	71.782	ug/l #	11
95) Naphthalene	15.647	128	1659	0.291	ug/l #	69

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

Instrument :
MSVOA_N
ClientSampleId :

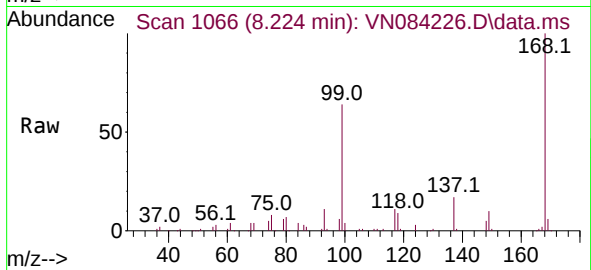
Instrument :
MSVOA_N
ClientSampleId :



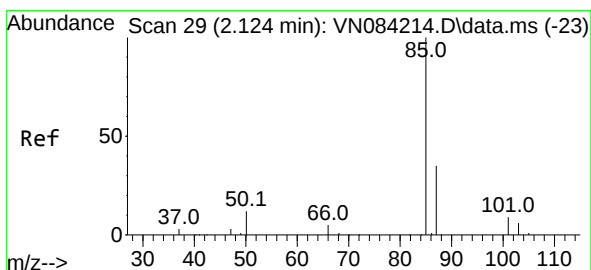
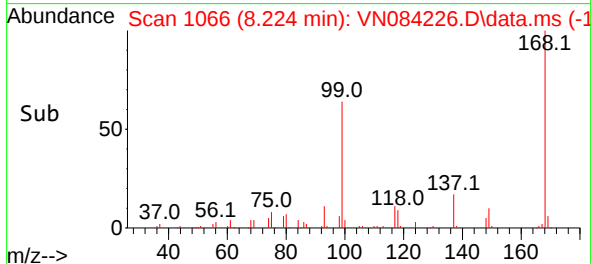
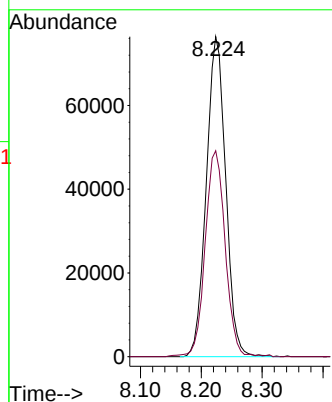


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

Instrument :
MSVOA_N
ClientSampleId :

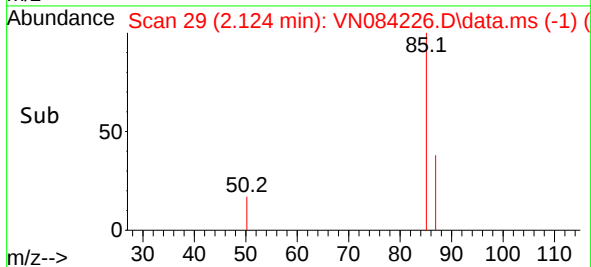
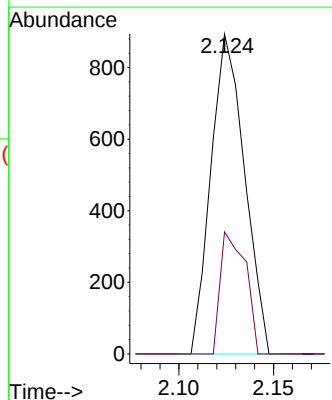
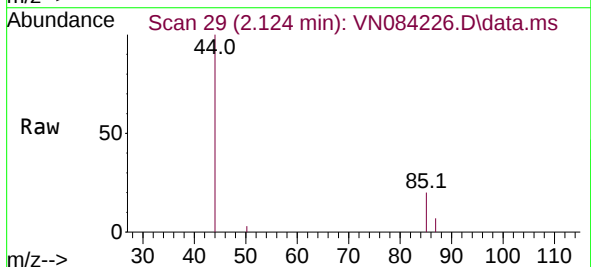


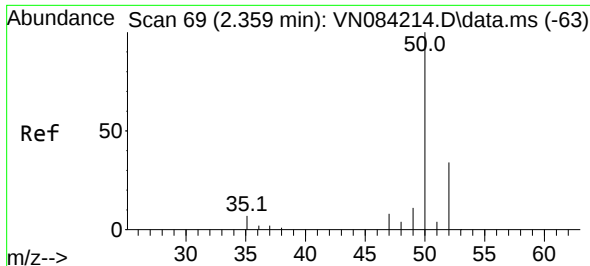
Tgt Ion:168 Resp: 169412
Ion Ratio Lower Upper
168 100
99 64.4 54.2 81.2



#2
Dichlorodifluoromethane
Concen: 0.551 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

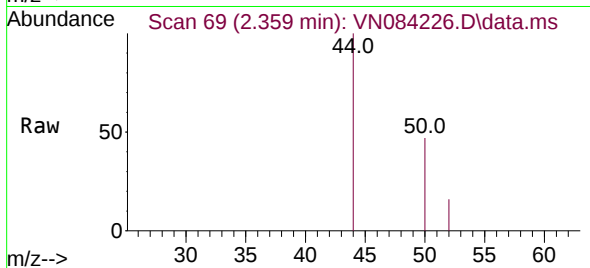
Tgt Ion: 85 Resp: 1105
Ion Ratio Lower Upper
85 100
87 38.1 17.6 52.9



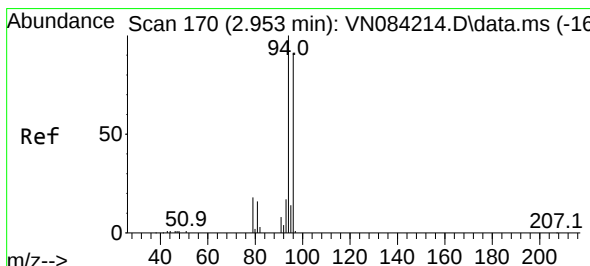
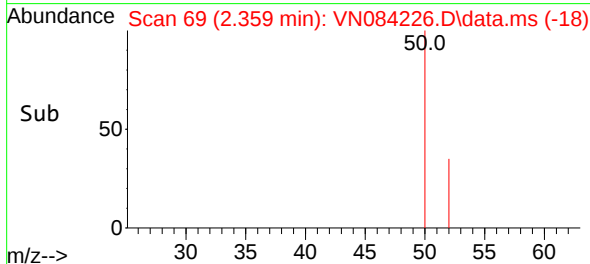
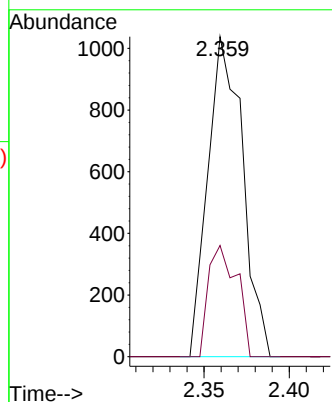


#3
Chloromethane
Concen: 0.642 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

Instrument :
MSVOA_N
ClientSampleId :

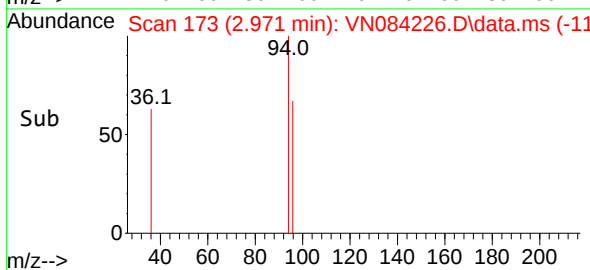
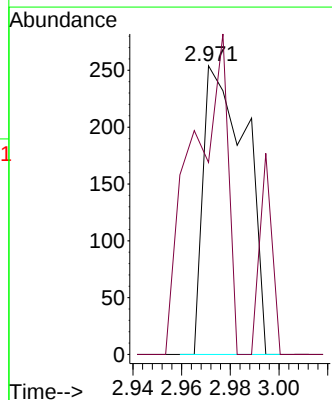
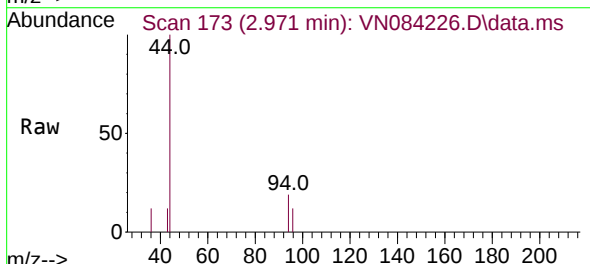


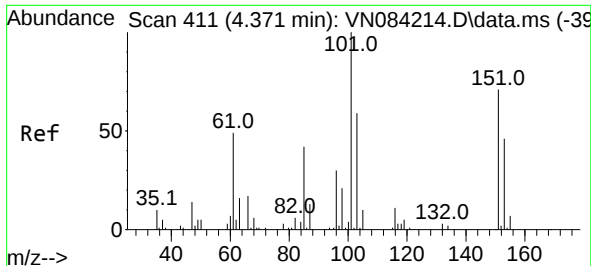
Tgt Ion: 50 Resp: 1470
Ion Ratio Lower Upper
50 100
52 34.8 26.8 40.2



#5
Bromomethane
Concen: 0.212 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.018 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

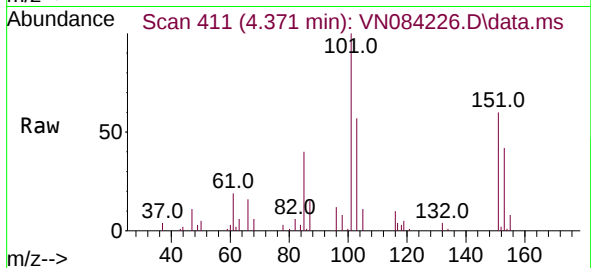
Tgt Ion: 94 Resp: 310
Ion Ratio Lower Upper
94 100
96 66.5 72.9 109.3#



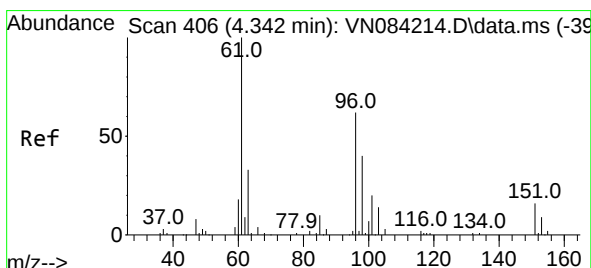
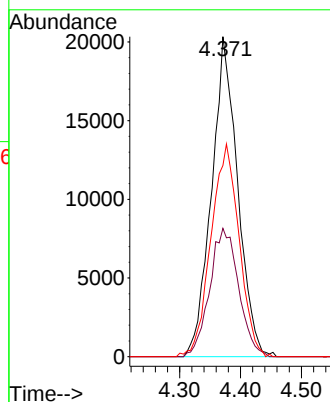
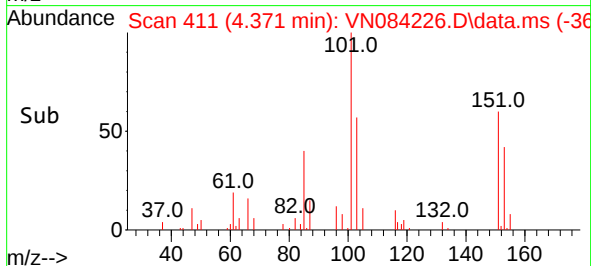


#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 30.597 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: VN084226.D
 Acq: 30 Sep 2024 18:54

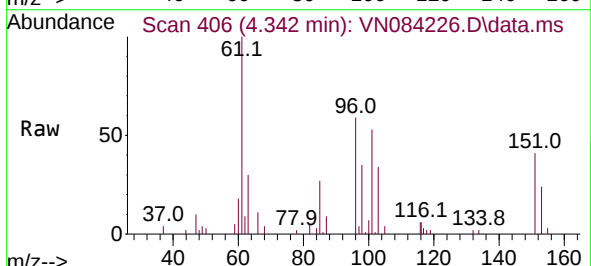
Instrument :
 MSVOA_N
 ClientSampleId :



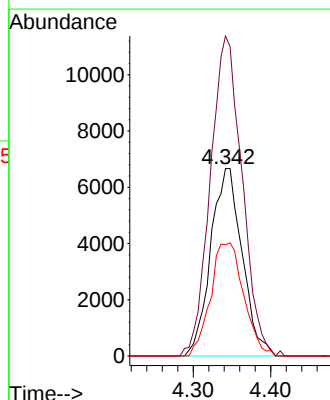
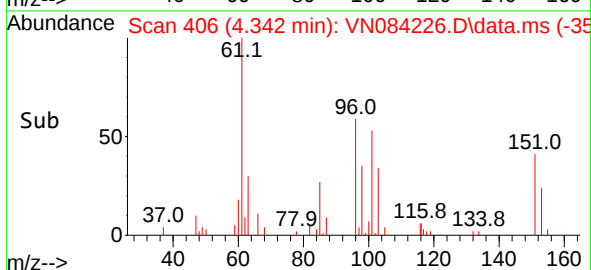
Tgt Ion:101 Resp: 60507
 Ion Ratio Lower Upper
 101 100
 85 44.4 36.2 54.4
 151 71.6 59.3 88.9

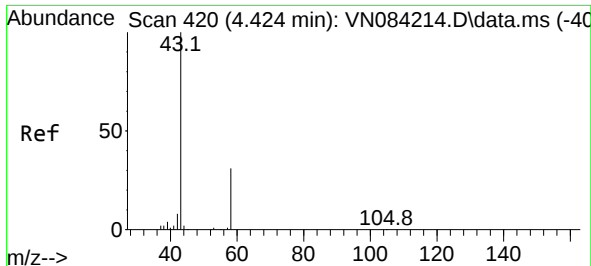


#12
 1,1-Dichloroethene
 Concen: 9.842 ug/l
 RT: 4.342 min Scan# 406
 Delta R.T. -0.000 min
 Lab File: VN084226.D
 Acq: 30 Sep 2024 18:54



Tgt Ion: 96 Resp: 18774
 Ion Ratio Lower Upper
 96 100
 61 170.7 128.6 192.8
 98 59.3 51.7 77.5





#16

Acetone

Concen: 1.016 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

Instrument :

MSVOA_N

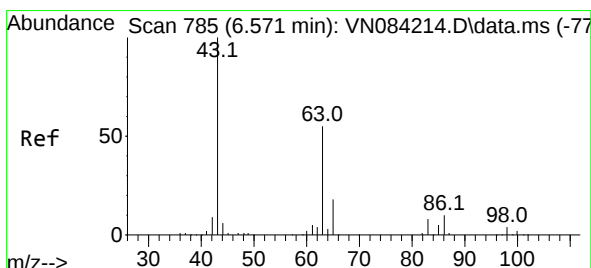
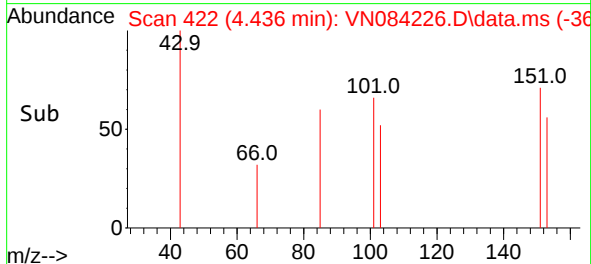
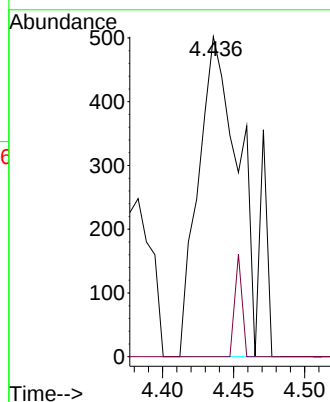
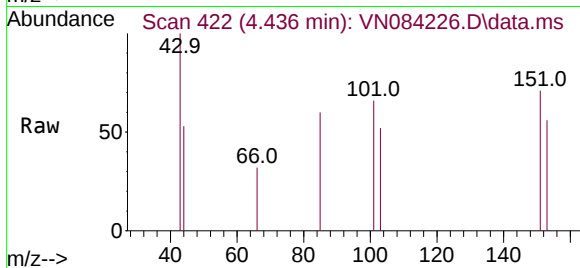
ClientSampleId :

Tgt Ion: 43 Resp: 1096

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#



#24

1,1-Dichloroethane

Concen: 1.851 ug/l

RT: 6.571 min Scan# 785

Delta R.T. -0.000 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

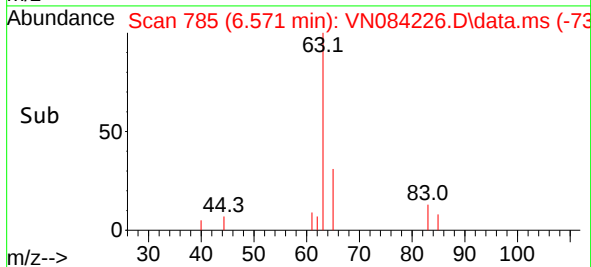
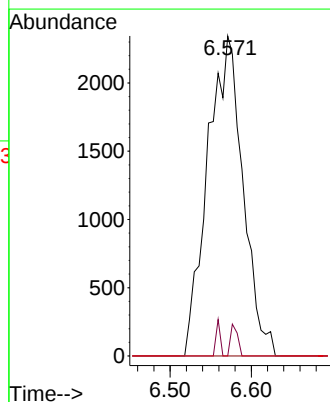
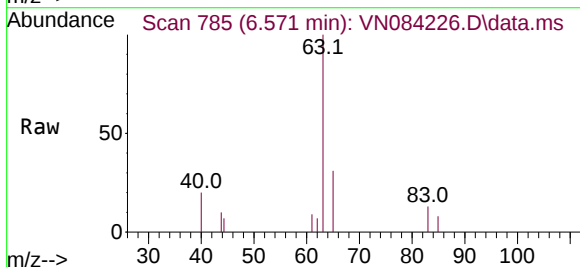
Tgt Ion: 63 Resp: 7091

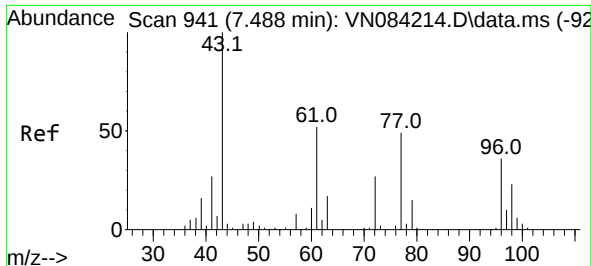
Ion Ratio Lower Upper

63 100

98 0.0 3.4 10.2#

100 0.0 2.0 5.8#



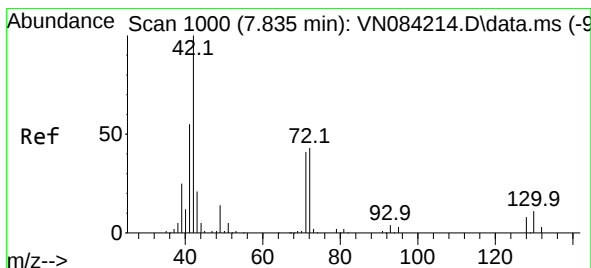
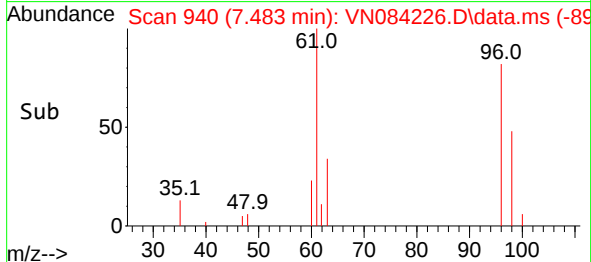
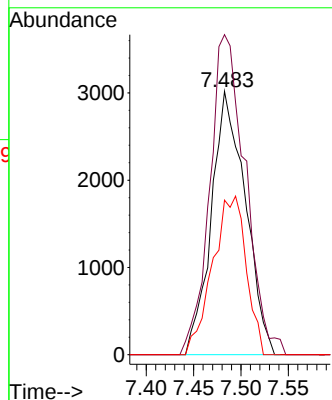
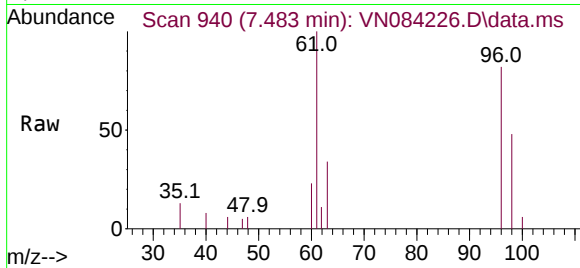


#27
 cis-1,2-Dichloroethene
 Concen: 3.123 ug/l
 RT: 7.483 min Scan# 941
 Delta R.T. -0.006 min
 Lab File: VN084226.D
 Acq: 30 Sep 2024 18:54

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 96 Resp: 7542

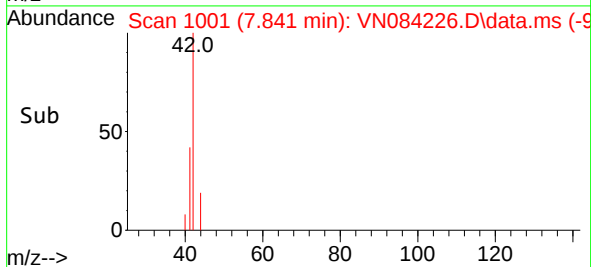
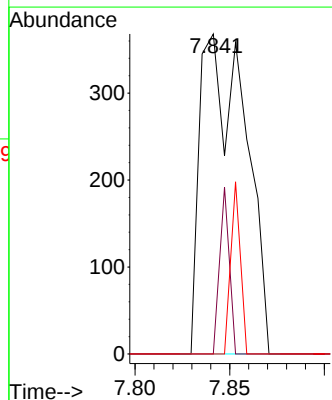
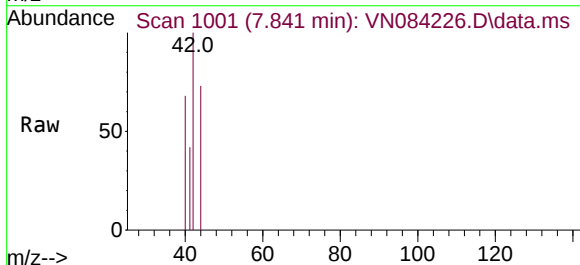
Ion	Ratio	Lower	Upper
96	100		
61	127.0	0.0	301.8
98	59.4	0.0	128.2

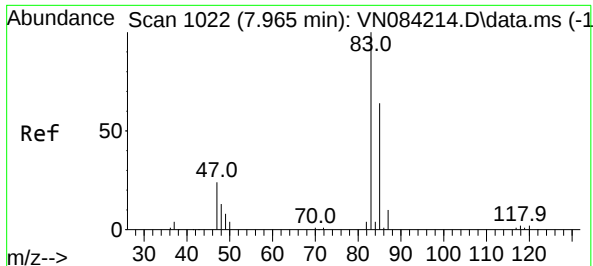


#29
 Tetrahydrofuran
 Concen: 0.671 ug/l
 RT: 7.841 min Scan# 1001
 Delta R.T. 0.006 min
 Lab File: VN084226.D
 Acq: 30 Sep 2024 18:54

Tgt Ion: 42 Resp: 609

Ion	Ratio	Lower	Upper
42	100		
72	11.2	34.6	51.8#
71	11.5	32.2	48.4#





#30

Chloroform

Concen: 1.262 ug/l

RT: 7.965 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

Instrument :

MSVOA_N

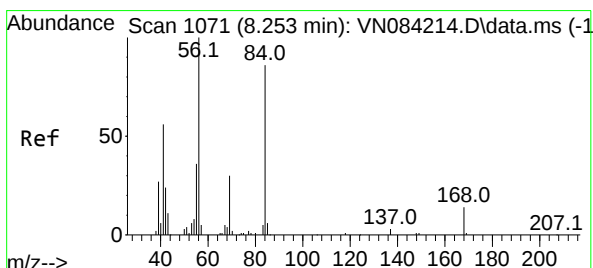
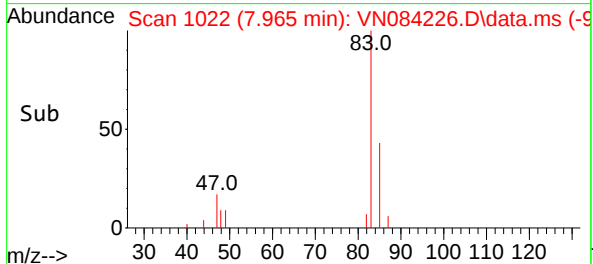
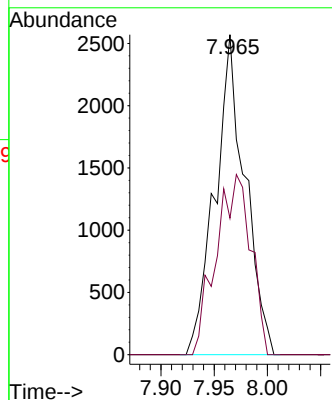
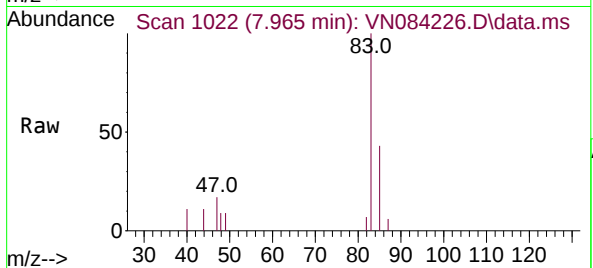
ClientSampleId :

Tgt Ion: 83 Resp: 5023

Ion Ratio Lower Upper

83 100

85 42.6 51.0 76.4#



#31

Cyclohexane

Concen: 1.155 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

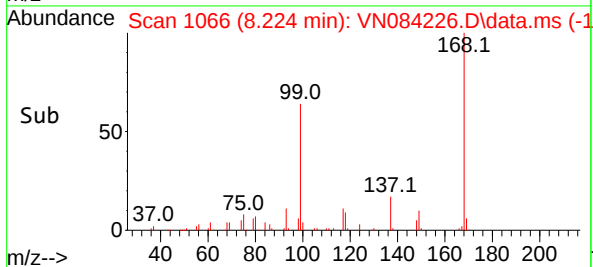
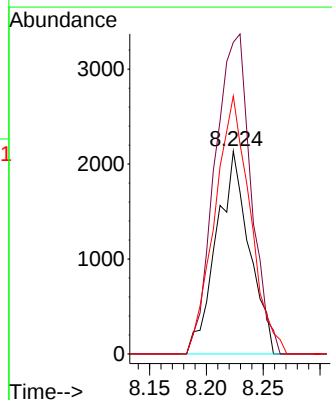
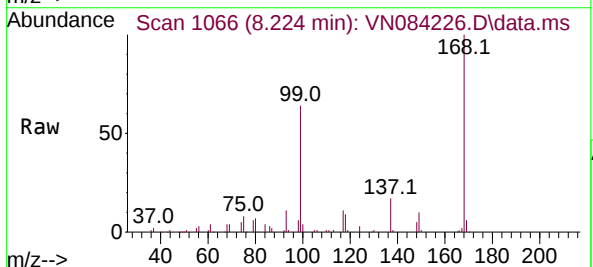
Tgt Ion: 56 Resp: 4296

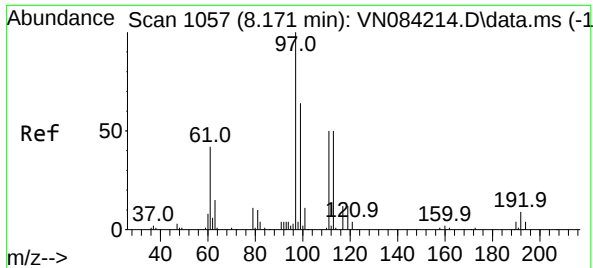
Ion Ratio Lower Upper

56 100

69 153.7 23.8 35.6#

84 127.1 68.8 103.2#





#32

1,1,1-Trichloroethane

Concen: 0.389 ug/l

RT: 8.165 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

Instrument :

MSVOA_N

ClientSampleId :

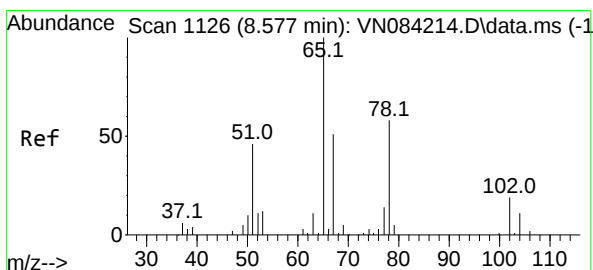
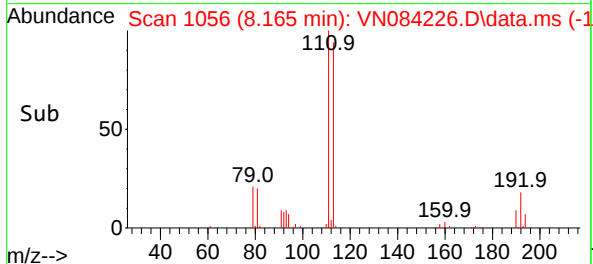
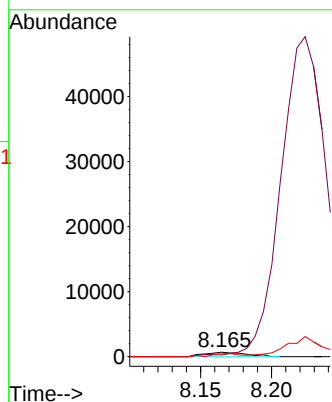
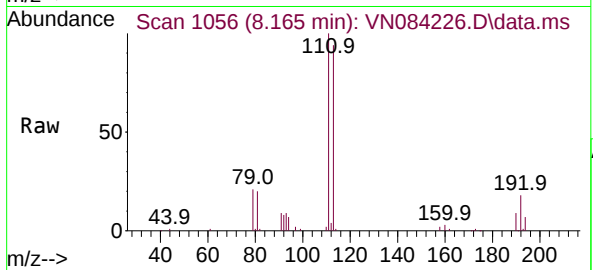
Tgt Ion: 97 Resp: 1389

Ion Ratio Lower Upper

97 100

99 0.0 51.2 76.8#

61 43.3 37.5 56.3



#33

1,2-Dichloroethane-d4

Concen: 48.839 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084226.D

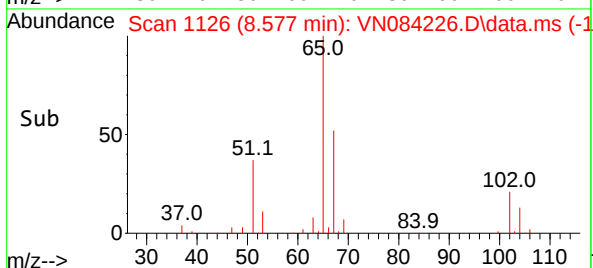
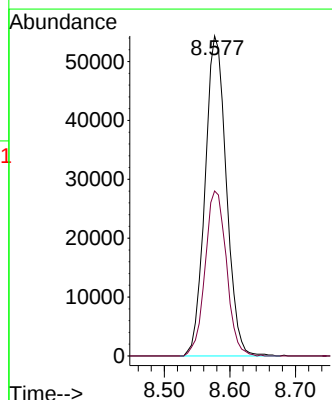
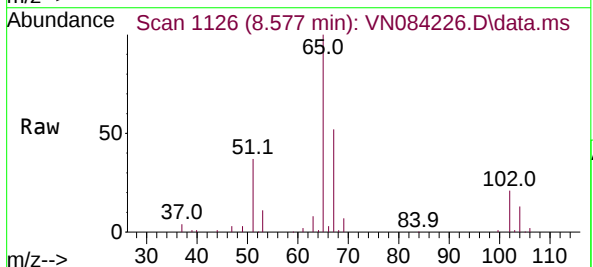
Acq: 30 Sep 2024 18:54

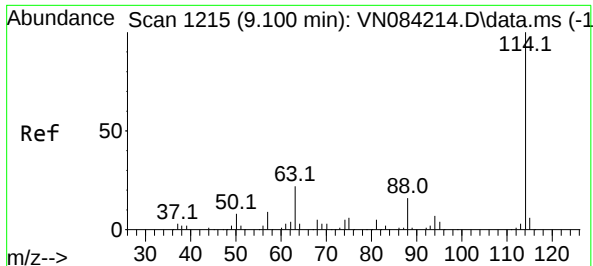
Tgt Ion: 65 Resp: 122676

Ion Ratio Lower Upper

65 100

67 51.7 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

Instrument :

MSVOA_N

ClientSampleId :

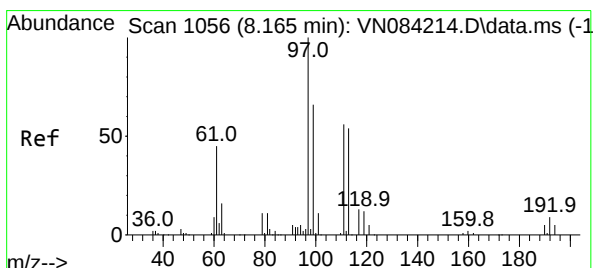
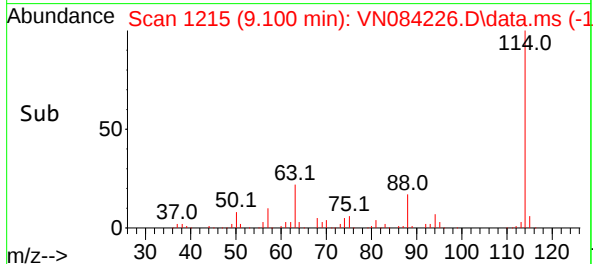
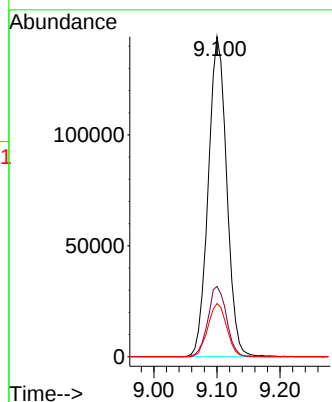
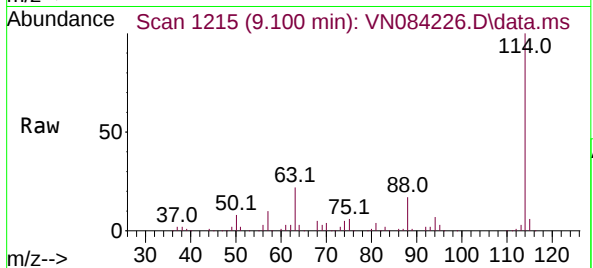
Tgt Ion:114 Resp: 292558

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.8

88 16.6 0.0 31.6



#35

Dibromofluoromethane

Concen: 48.578 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

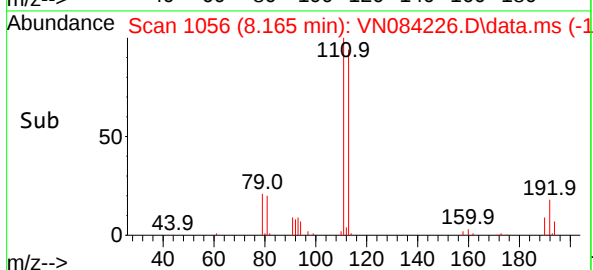
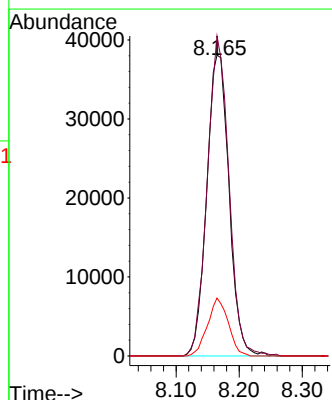
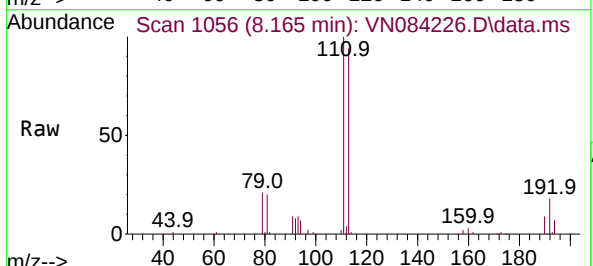
Tgt Ion:113 Resp: 93693

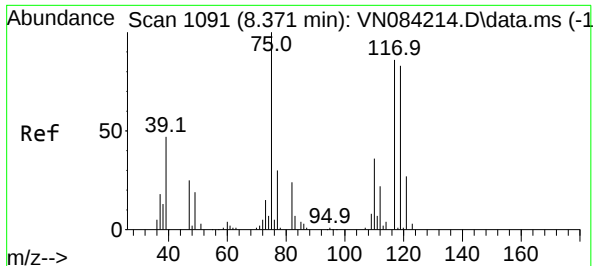
Ion Ratio Lower Upper

113 100

111 103.1 83.3 124.9

192 17.8 13.5 20.3





#36

1,1-Dichloropropene

Concen: 5.283 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

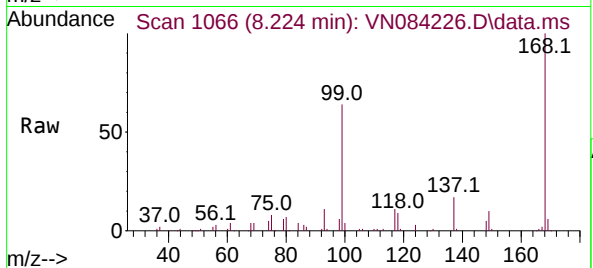
Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

Instrument :

MSVOA_N

ClientSampleId :



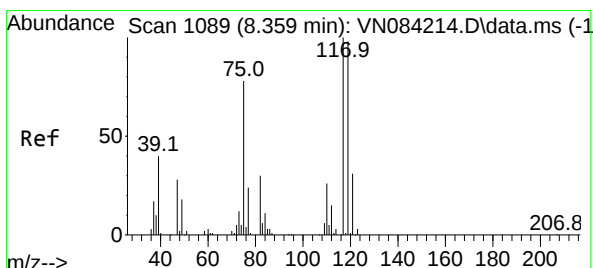
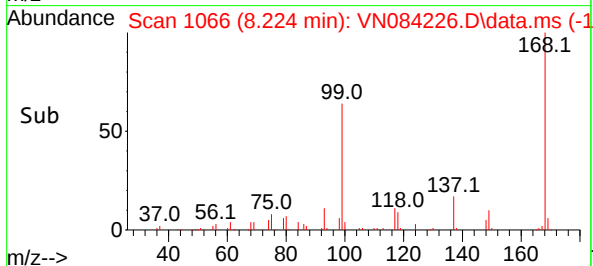
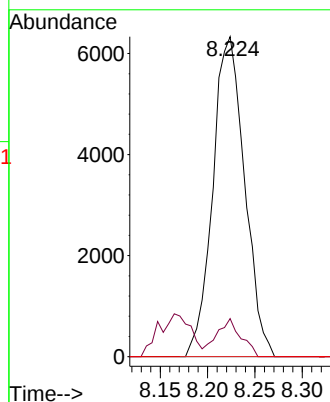
Tgt Ion: 75 Resp: 14801

Ion Ratio Lower Upper

75 100

110 9.1 16.9 50.7#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 1.777 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

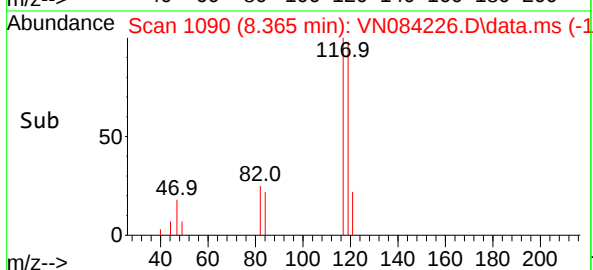
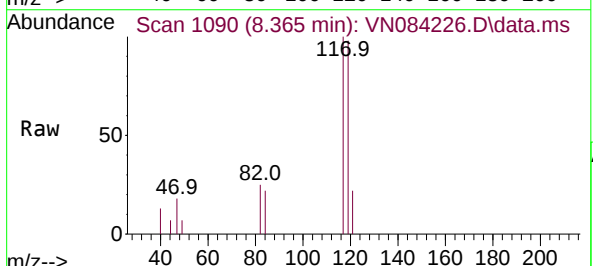
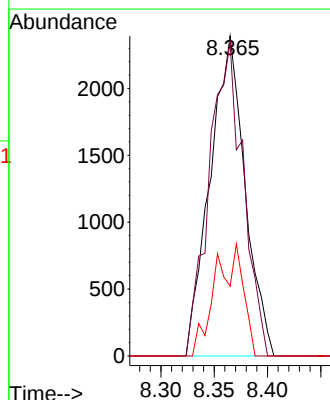
Tgt Ion: 117 Resp: 5462

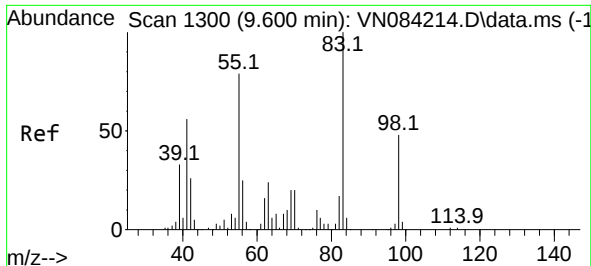
Ion Ratio Lower Upper

117 100

119 98.0 78.7 118.1

121 21.8 24.4 36.6#





#39

Methylcyclohexane

Concen: 13.898 ug/l

RT: 9.353 min Scan# 11

Delta R.T. -0.247 min

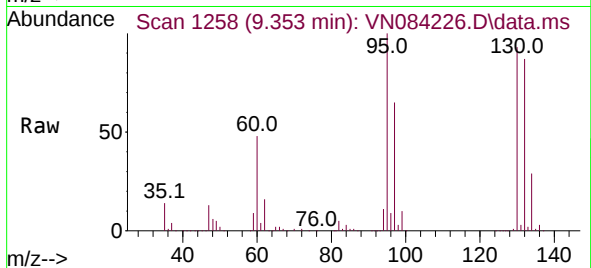
Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

Instrument :

MSVOA_N

ClientSampleId :



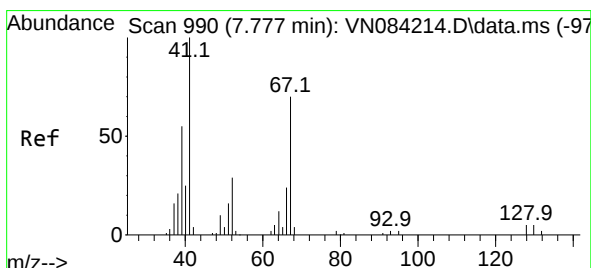
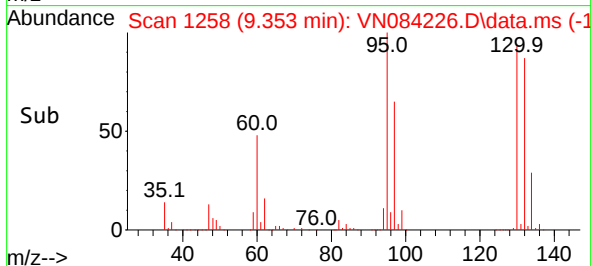
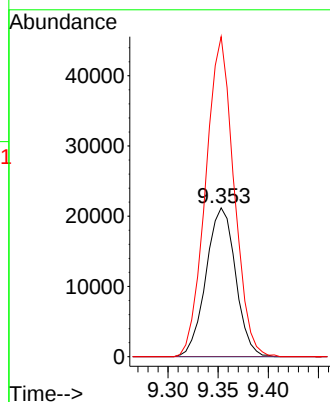
Tgt Ion: 83 Resp: 43333

Ion Ratio Lower Upper

83 100

55 0.0 62.8 94.2#

98 215.1 38.8 58.2#



#41

Methacrylonitrile

Concen: 0.254 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.071 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

Tgt Ion: 41 Resp: 396

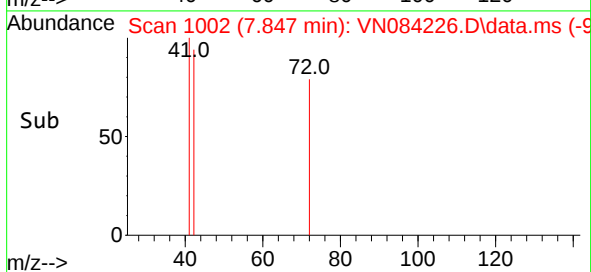
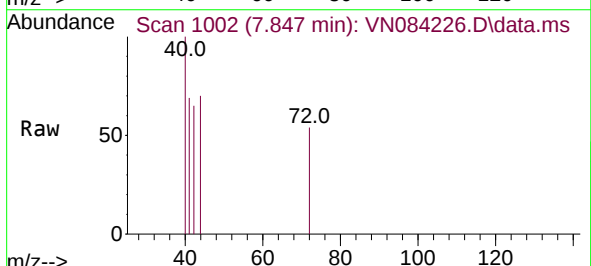
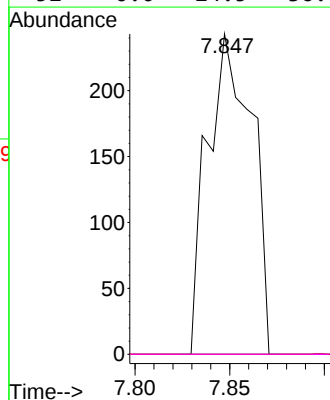
Ion Ratio Lower Upper

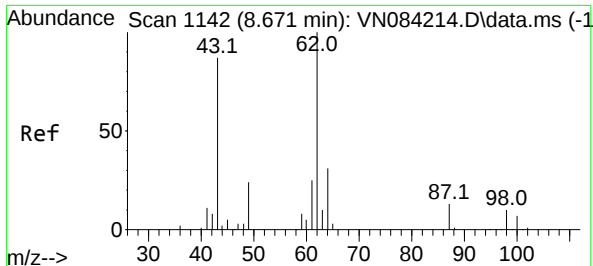
41 100

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: 0.410 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

Instrument :

MSVOA_N

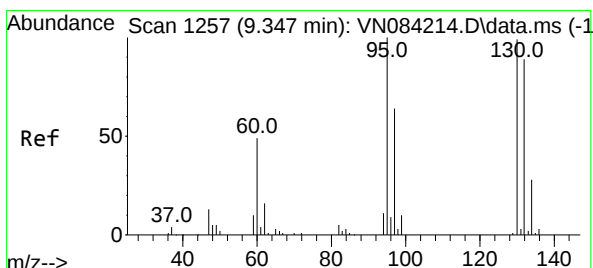
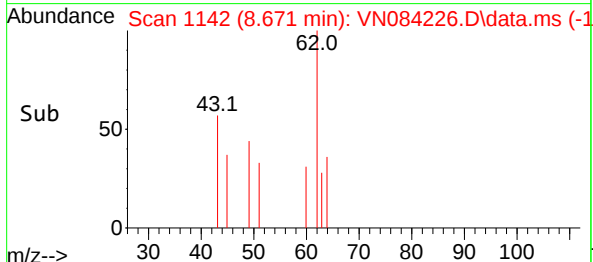
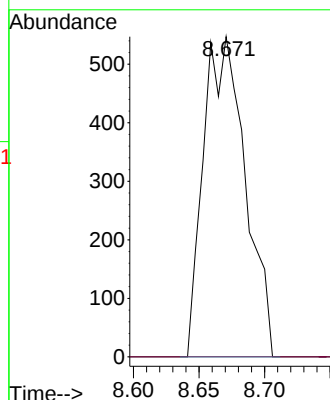
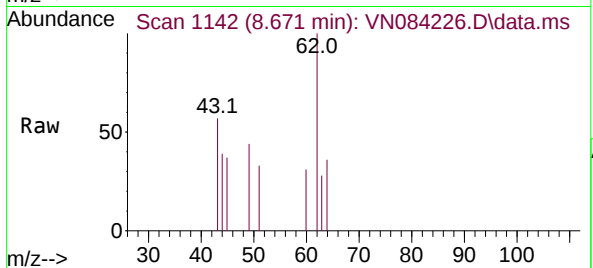
ClientSampleId :

Tgt Ion: 62 Resp: 1213

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#44

Trichloroethene

Concen: 1619.355 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.006 min

Lab File: VN084226.D

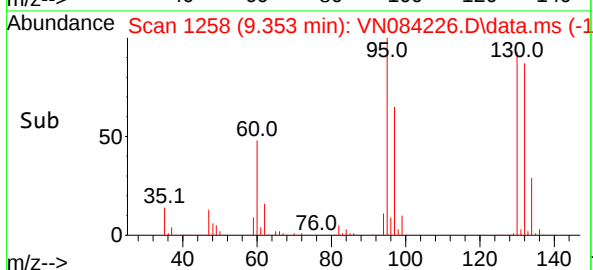
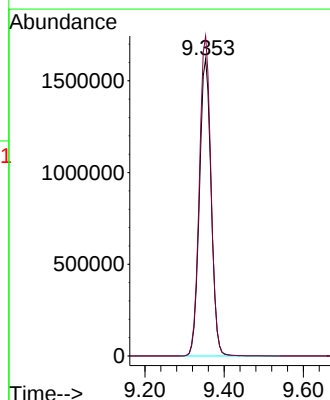
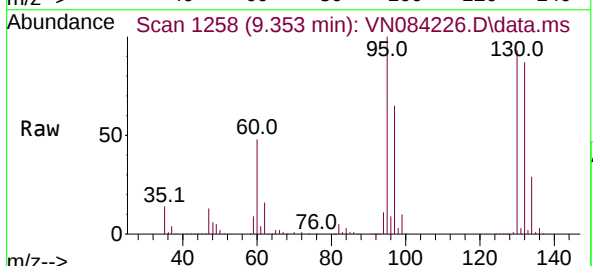
Acq: 30 Sep 2024 18:54

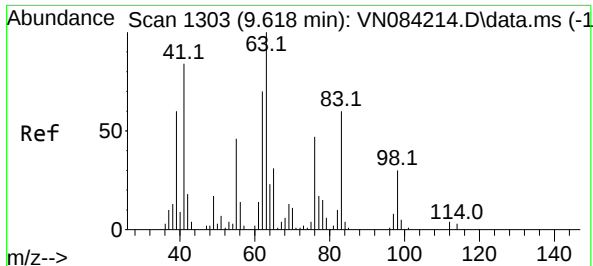
Tgt Ion:130 Resp: 3301317

Ion Ratio Lower Upper

130 100

95 107.7 0.0 203.0





#45

1,2-Dichloropropane

Concen: 5.291 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.271 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

Instrument :

MSVOA_N

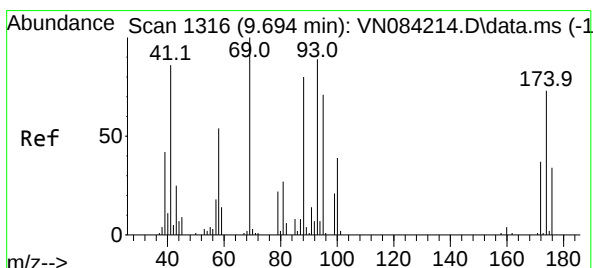
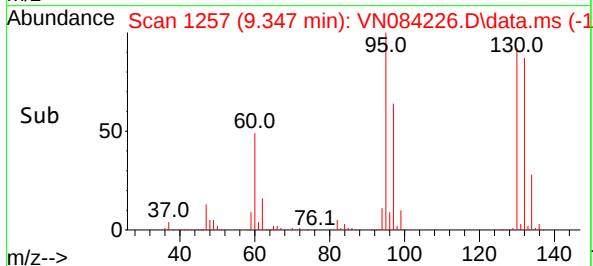
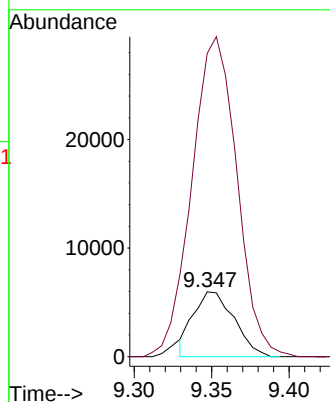
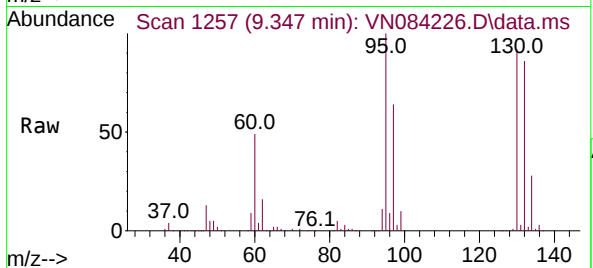
ClientSampleId :

Tgt Ion: 63 Resp: 10925

Ion Ratio Lower Upper

63 100

65 460.3 24.6 37.0#



#49

1,4-Dioxane

Concen: 22.881 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.006 min

Lab File: VN084226.D

Acq: 30 Sep 2024 18:54

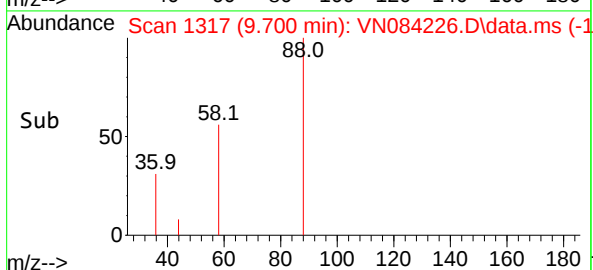
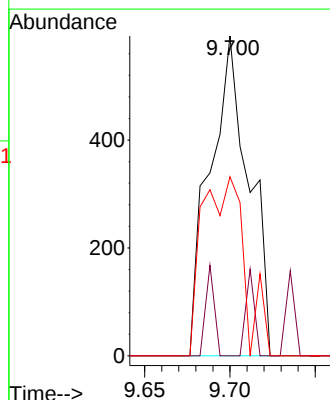
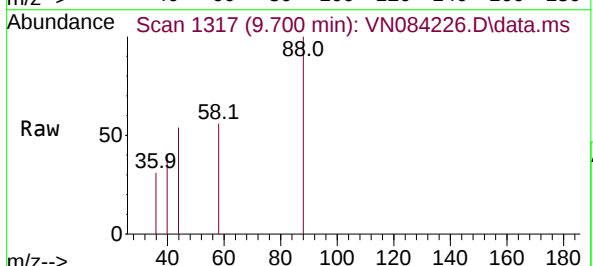
Tgt Ion: 88 Resp: 944

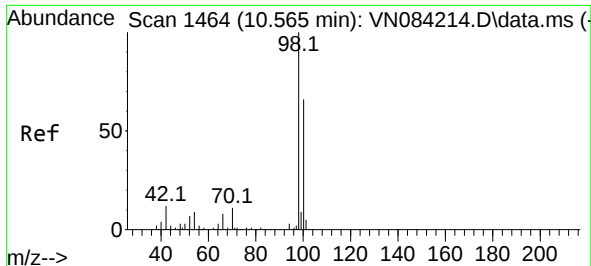
Ion Ratio Lower Upper

88 100

43 6.0 25.3 37.9#

58 60.3 56.4 84.6

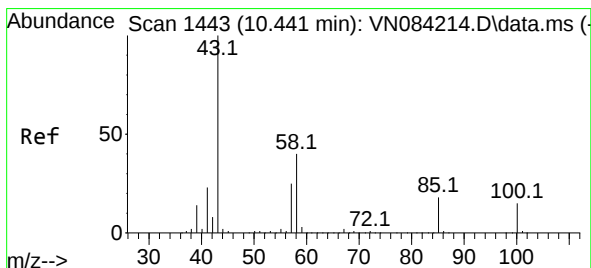
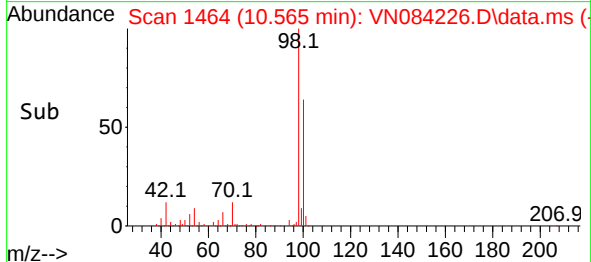
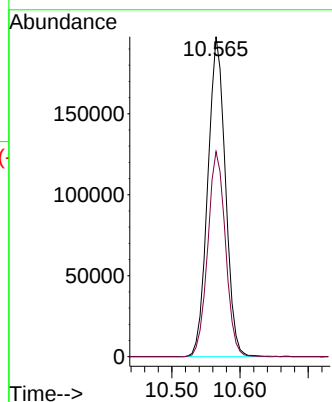
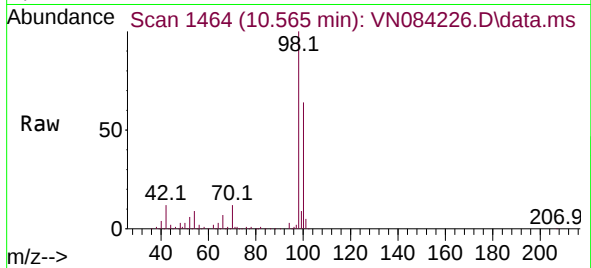




#50
Toluene-d8
Concen: 50.050 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

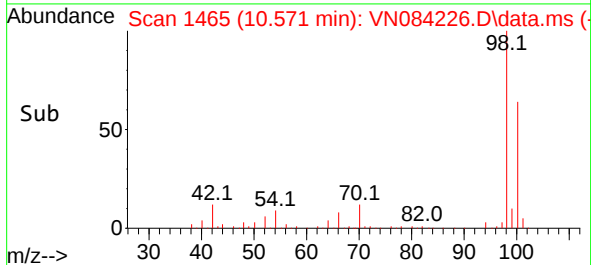
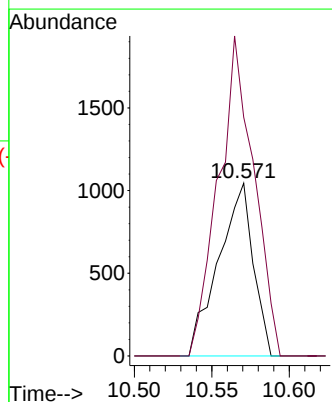
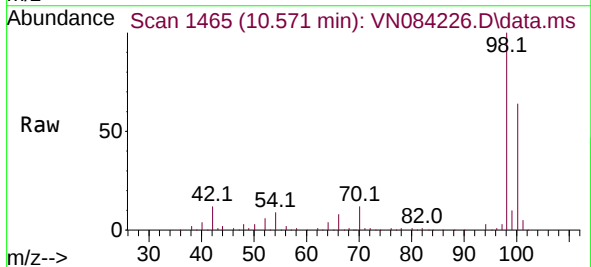
Instrument :
MSVOA_N
ClientSampleId :

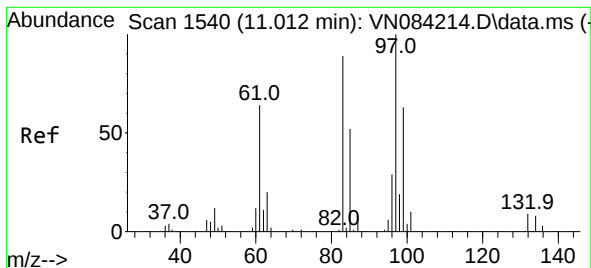
Tgt Ion: 98 Resp: 355156
Ion Ratio Lower Upper
98 100
100 64.5 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 0.592 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.129 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

Tgt Ion: 43 Resp: 1619
Ion Ratio Lower Upper
43 100
58 189.7 31.6 47.4#

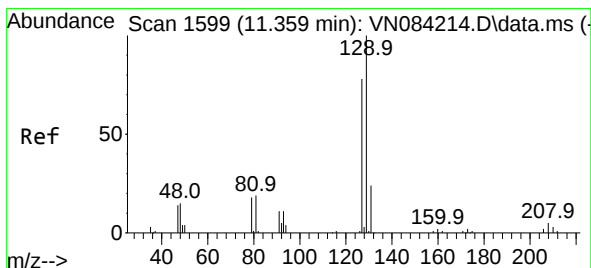
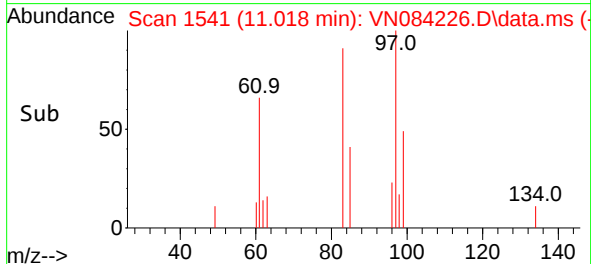
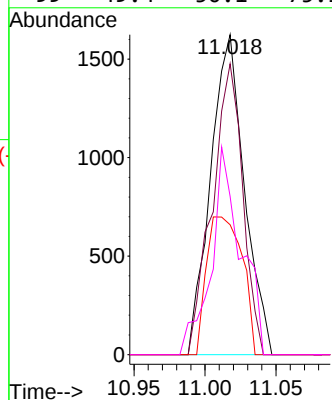
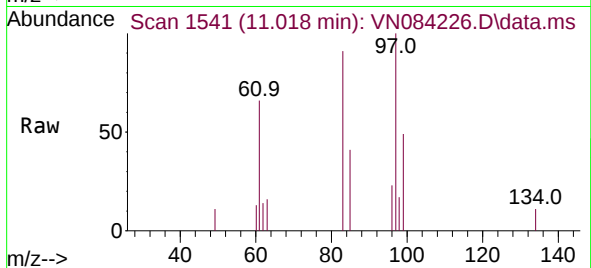




#55
1,1,2-Trichloroethane
Concen: 1.409 ug/l
RT: 11.018 min Scan# 1540
Delta R.T. 0.006 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

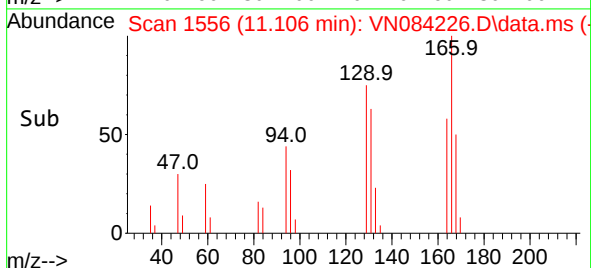
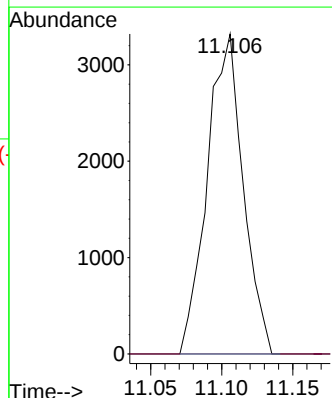
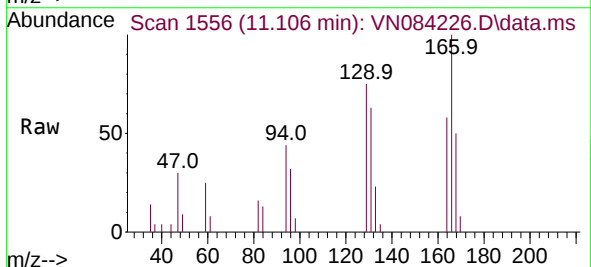
Instrument :
MSVOA_N
ClientSampleId :

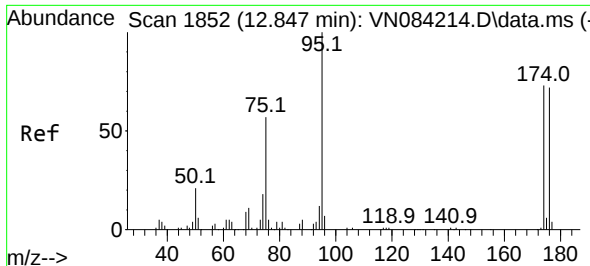
Tgt Ion:	97	Resp:	2689
Ion	Ratio	Lower	Upper
97	100		
83	90.9	71.0	106.4
85	40.6	41.7	62.5#
99	49.4	50.1	75.1#



#60
Dibromochloromethane
Concen: 2.589 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.253 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

Tgt Ion:	129	Resp:	5836
Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.3	114.9#

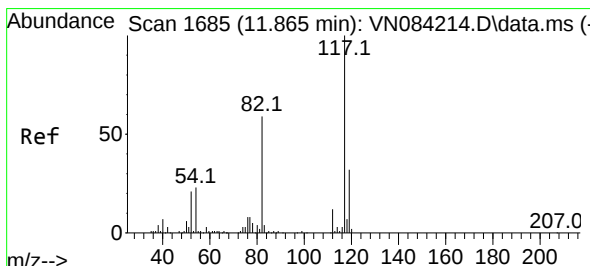
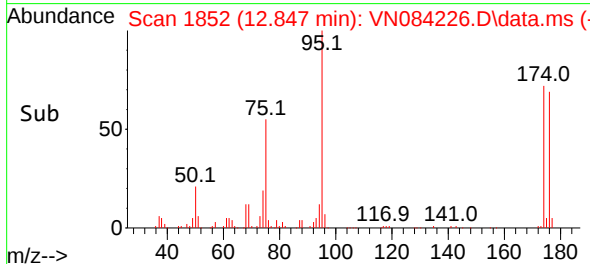
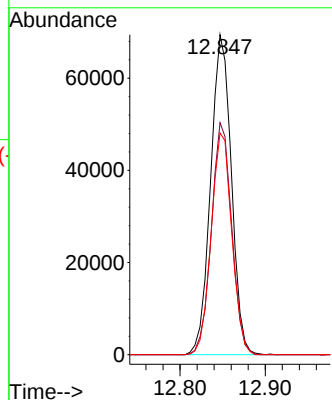
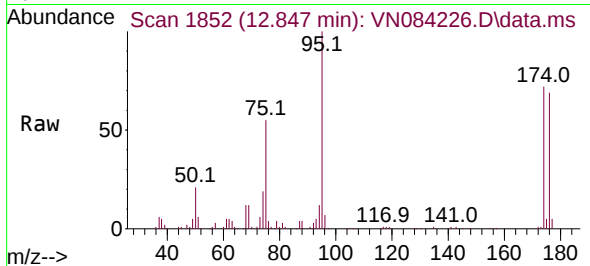




#62
4-Bromofluorobenzene
Concen: 45.387 ug/l
RT: 12.847 min Scan# 117331
Delta R.T. -0.000 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

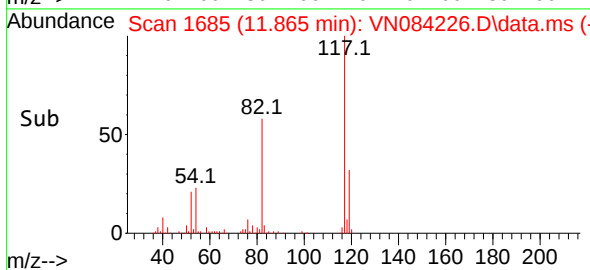
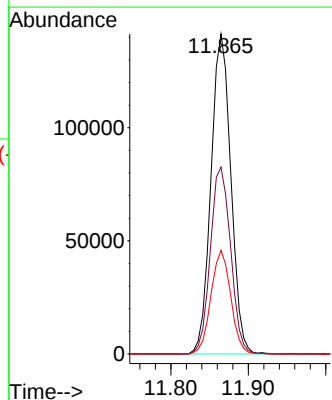
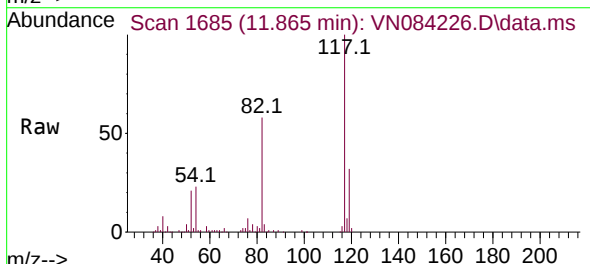
Instrument :
MSVOA_N
ClientSampleId :

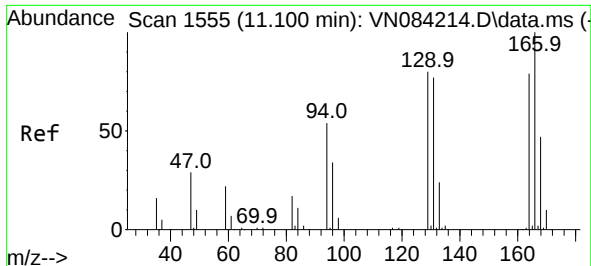
Tgt Ion: 95 Resp: 117331
Ion Ratio Lower Upper
95 100
174 71.0 0.0 145.2
176 69.0 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

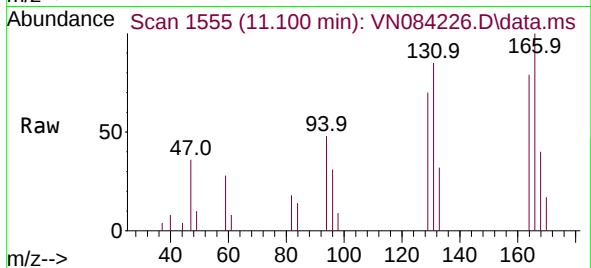
Tgt Ion: 117 Resp: 251910
Ion Ratio Lower Upper
117 100
82 58.3 47.2 70.8
119 32.4 25.4 38.0



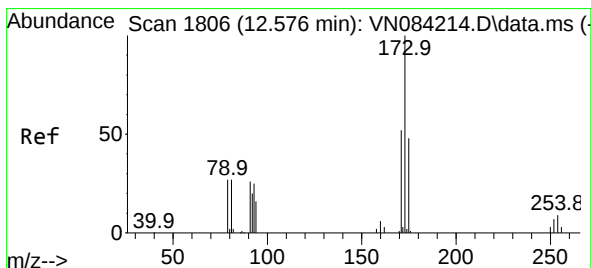
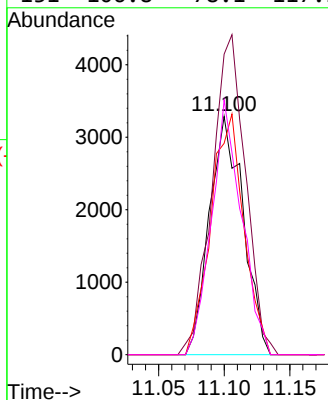
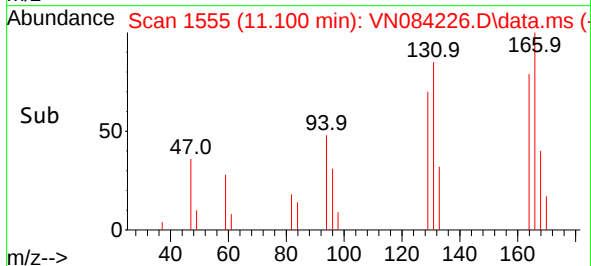


#64
Tetrachloroethene
Concen: 3.350 ug/l
RT: 11.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

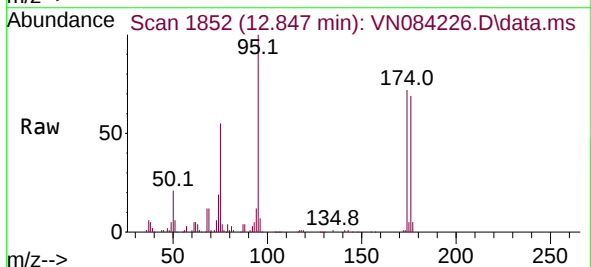
Instrument :
MSVOA_N
ClientSampleId :



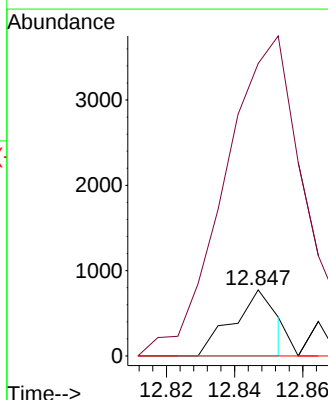
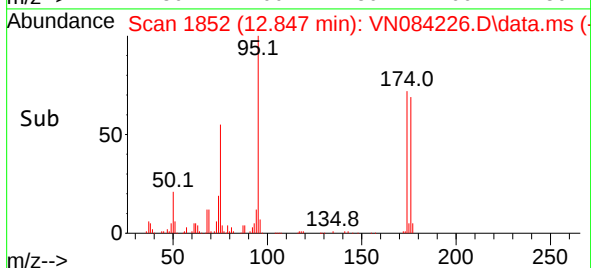
Tgt Ion:164 Resp: 5878
Ion Ratio Lower Upper
164 100
166 126.1 101.0 151.4
129 88.7 80.8 121.2
131 106.8 78.1 117.1

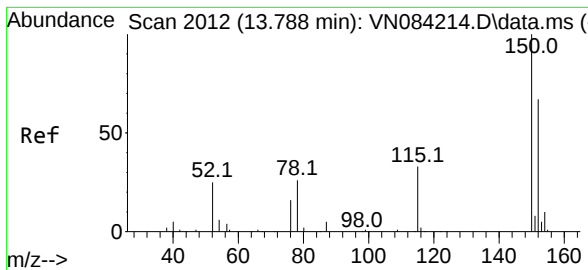


#71
Bromoform
Concen: 0.490 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54



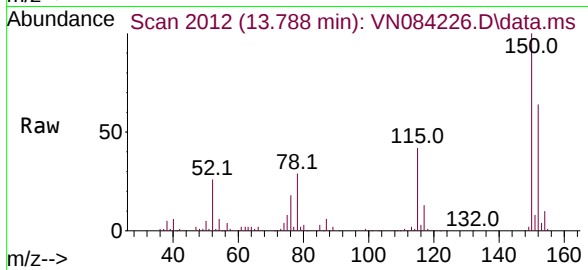
Tgt Ion:173 Resp: 694
Ion Ratio Lower Upper
173 100
175 0.0 23.5 70.6#
254 0.0 0.0 0.0



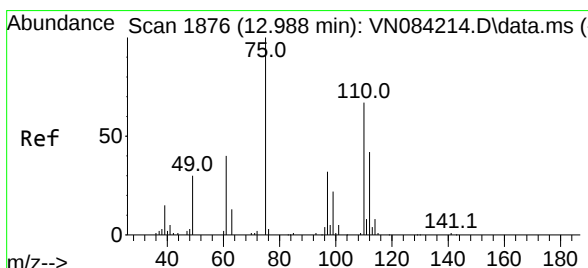
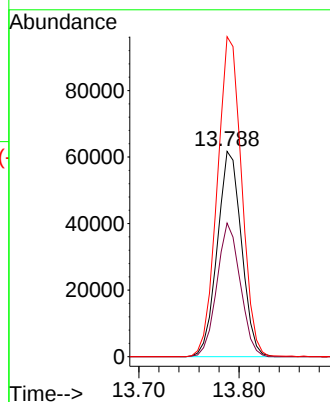
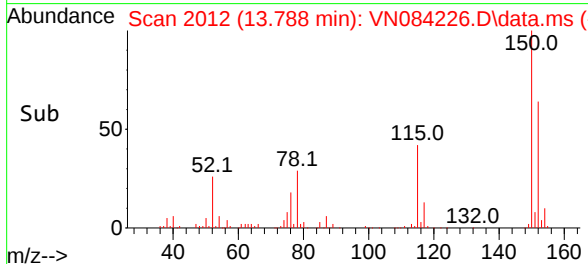


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN084226.D
 Acq: 30 Sep 2024 18:54

Instrument :
 MSVOA_N
 ClientSampleId :

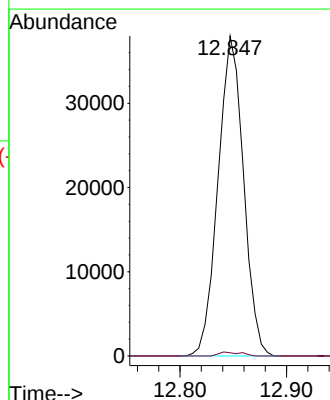
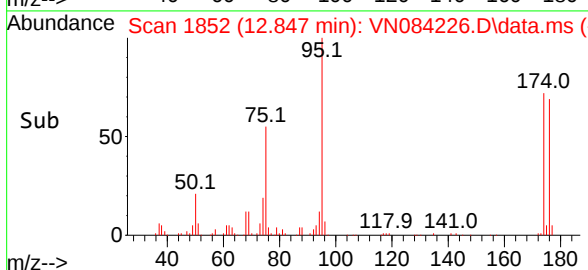
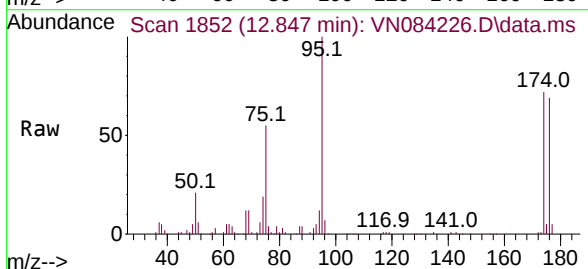


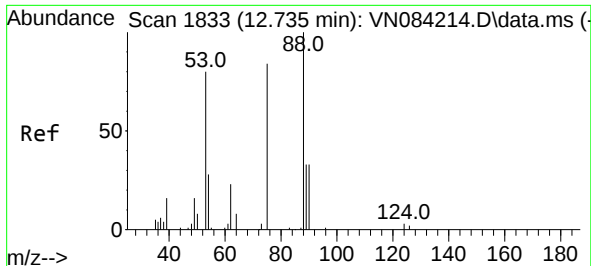
Tgt Ion:152 Resp: 103173
 Ion Ratio Lower Upper
 152 100
 115 62.9 31.3 93.9
 150 157.0 0.0 349.8



#76
 1,2,3-Trichloropropane
 Concen: 29.941 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN084226.D
 Acq: 30 Sep 2024 18:54

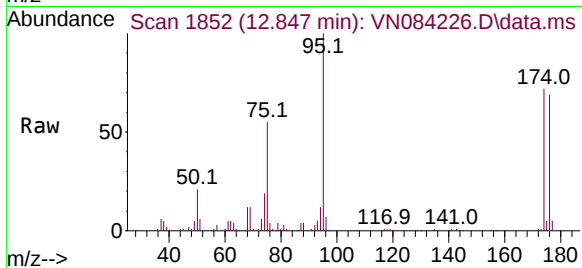
Tgt Ion: 75 Resp: 63065
 Ion Ratio Lower Upper
 75 100
 77 1.1 96.9 290.7#



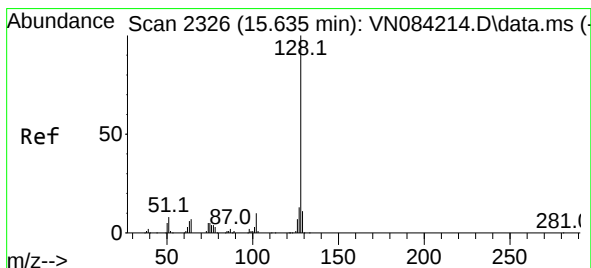
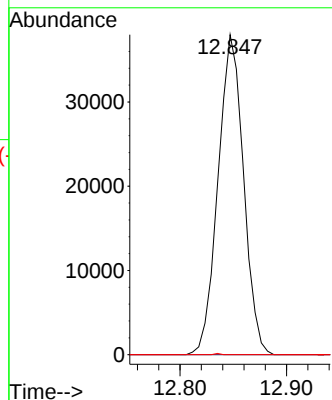
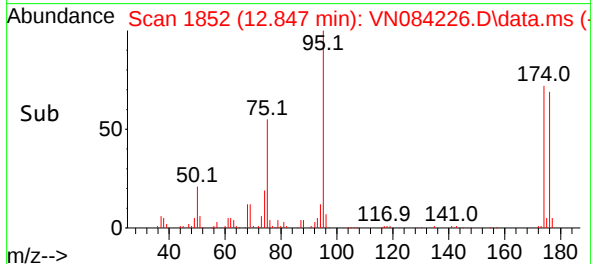


#81
trans-1,4-Dichloro-2-butene
Concen: 71.782 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54

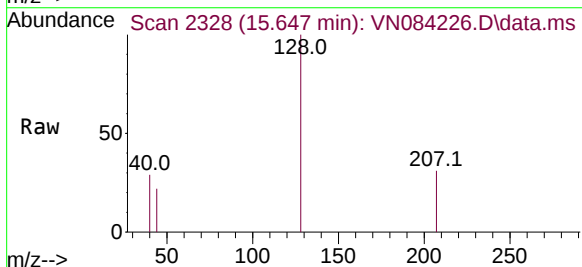
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 63065
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.1 35.5 53.3#



#95
Naphthalene
Concen: 0.291 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.012 min
Lab File: VN084226.D
Acq: 30 Sep 2024 18:54



Tgt Ion: 128 Resp: 1659
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#

