

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022724\
 Data File : VN081229.D
 Acq On : 27 Feb 2024 19:12
 Operator : JC\MD
 Sample : P1590-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE114D2-20240222

Quant Time: Feb 28 04:23:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021624W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 16 23:45:20 2024
 Response via : Initial Calibration

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

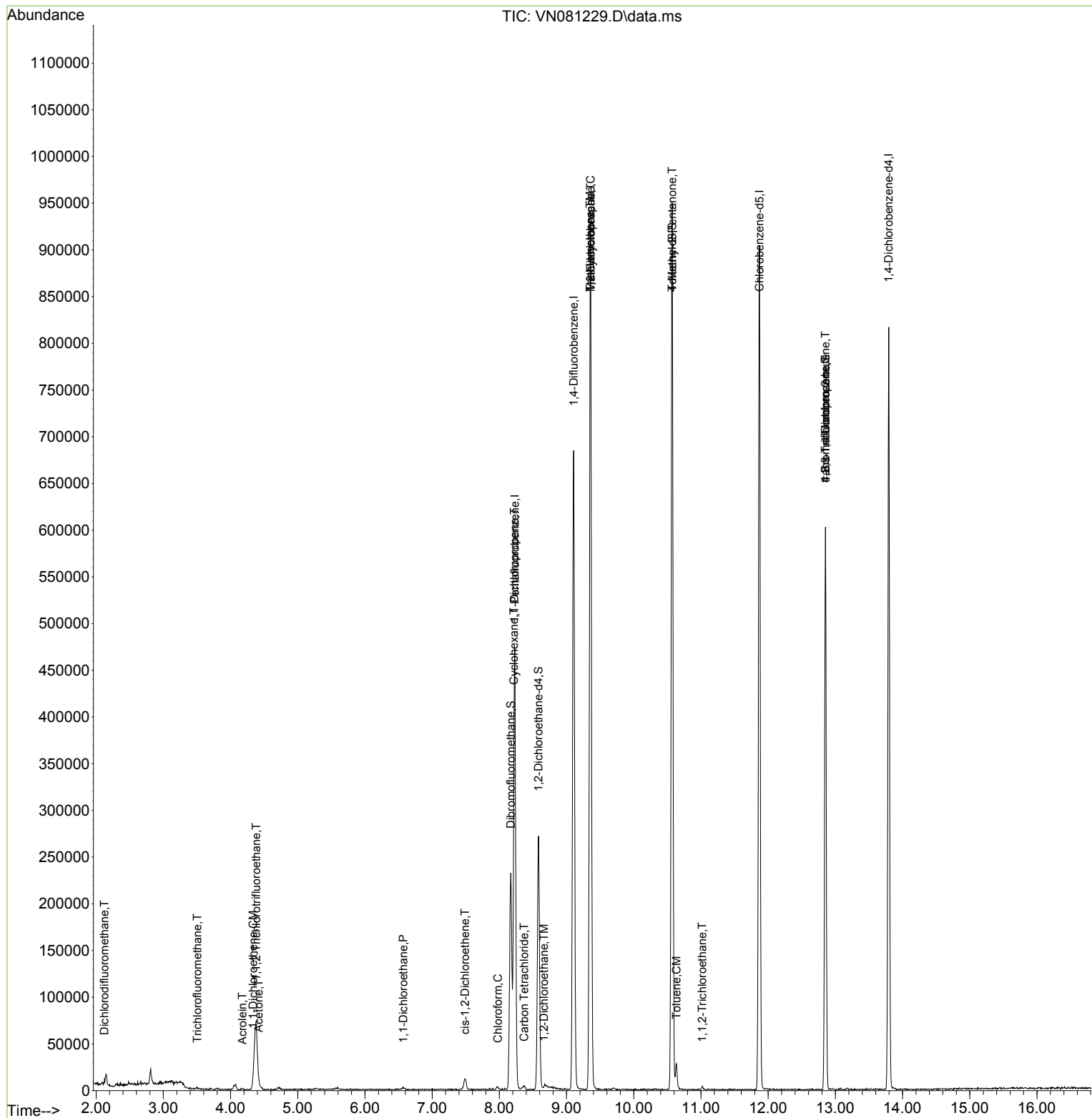
Internal Standards						
1) Pentafluorobenzene	8.230	168	316934	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	581203	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	511721	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	199922	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	213975	55.081	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 110.160%	
35) Dibromofluoromethane	8.171	113	165145	50.249	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.500%	
50) Toluene-d8	10.571	98	646522	55.387	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 110.780%	
62) 4-Bromofluorobenzene	12.853	95	201076	45.844	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 91.680%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	2720	0.664	ug/l	84
3) Chloromethane	2.359	50	657	Below Cal	#	58
6) Chloroethane	3.112	64	156	Below Cal	#	42
7) Trichlorofluoromethane	3.506	101	1687	0.254	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.383	101	47167	12.721	ug/l	94
12) 1,1-Dichloroethene	4.336	96	2040	0.569	ug/l #	47
13) Acrolein	4.177	56	401	1.047	ug/l #	11
16) Acetone	4.418	43	1837	1.202	ug/l #	85
20) Methylene Chloride	5.283	84	845	Below Cal	#	49
24) 1,1-Dichloroethane	6.571	63	3438	0.493	ug/l #	85
27) cis-1,2-Dichloroethene	7.488	96	7264	1.564	ug/l	81
30) Chloroform	7.977	83	2861	0.386	ug/l	94
31) Cyclohexane	8.218	56	9415	1.404	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	30254	5.373	ug/l #	52
38) Carbon Tetrachloride	8.371	117	2496	0.438	ug/l #	72
39) Methylcyclohexane	9.359	83	4398	0.670	ug/l #	1
42) 1,2-Dichloroethane	8.665	62	1593	0.280	ug/l	87
44) Trichloroethene	9.353	130	325191	74.916	ug/l	96
45) 1,2-Dichloropropane	9.359	63	943	0.231	ug/l #	1
49) 1,4-Dioxane	9.694	88	1059	Below Cal	#	26
51) 4-Methyl-2-Pentanone	10.571	43	2871	0.562	ug/l #	1
52) Toluene	10.635	92	9823	0.952	ug/l	87
55) 1,1,2-Trichloroethane	11.018	97	1128	0.284	ug/l #	75
76) 1,2,3-Trichloropropane	12.853	75	110919	24.419	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	110919	62.852	ug/l #	14

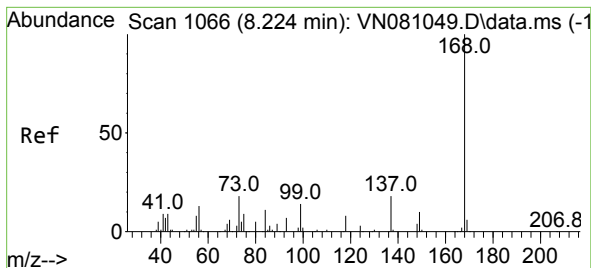
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

Instrument :

MSVOA_N

ClientSampleId :

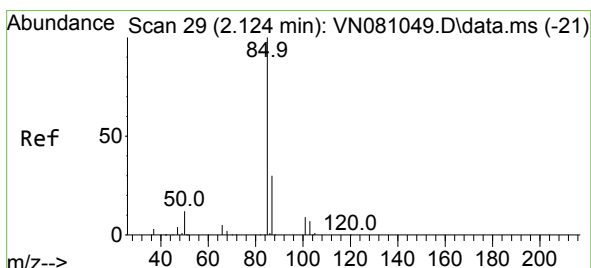
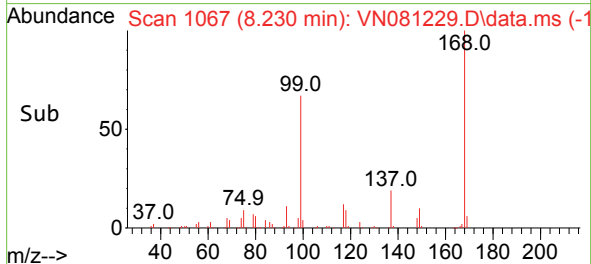
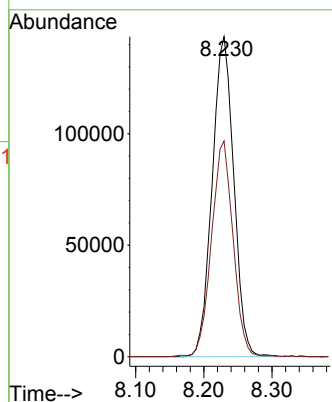
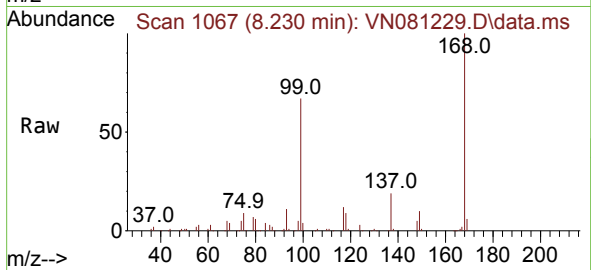
RE114D2-20240222

Tgt Ion:168 Resp: 316934

Ion Ratio Lower Upper

168 100

99 67.3 59.9 89.9



#2

Dichlorodifluoromethane

Concen: 0.664 ug/l

RT: 2.124 min Scan# 29

Delta R.T. -0.000 min

Lab File: VN081229.D

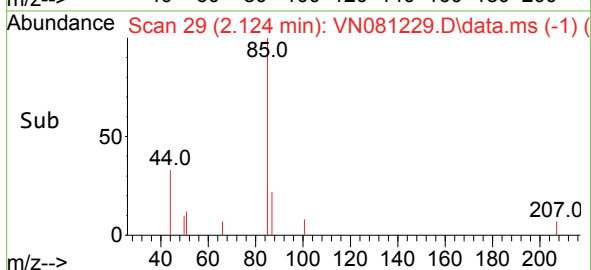
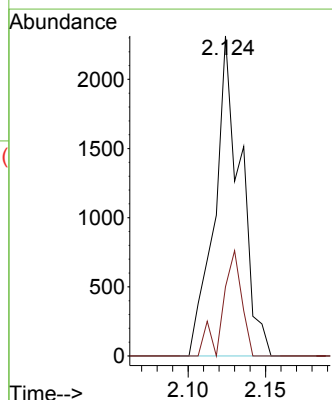
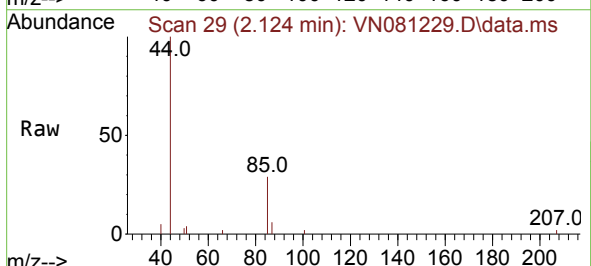
Acq: 27 Feb 2024 19:12

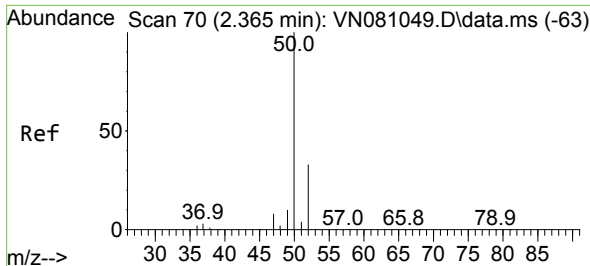
Tgt Ion: 85 Resp: 2720

Ion Ratio Lower Upper

85 100

87 21.6 15.3 45.9

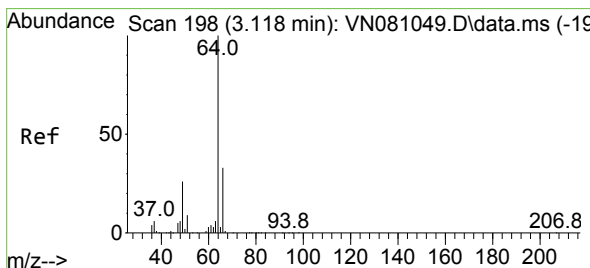
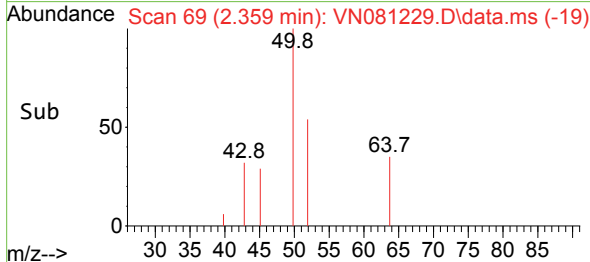
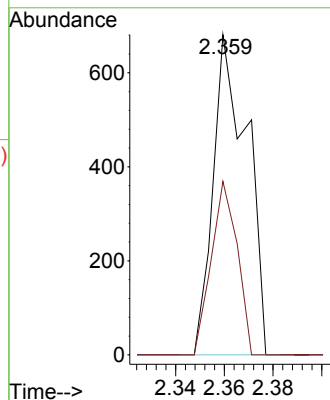
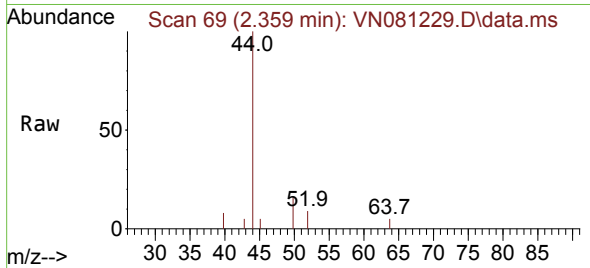




#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

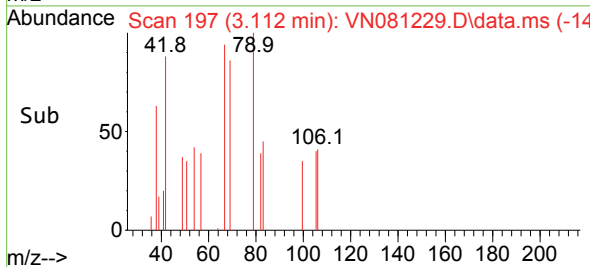
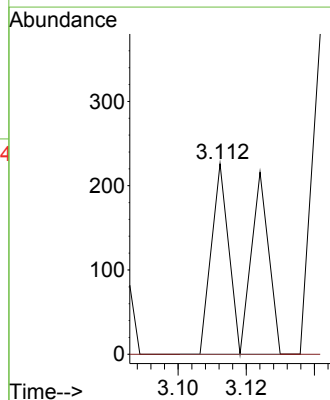
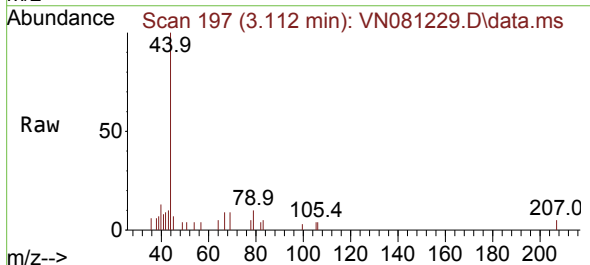
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20240222

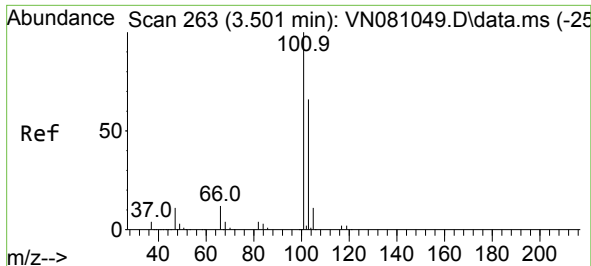
Tgt Ion: 50 Resp: 657
Ion Ratio Lower Upper
50 100
52 54.2 25.0 37.4#



#6
Chloroethane
Concen: Below Cal
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

Tgt Ion: 64 Resp: 156
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#

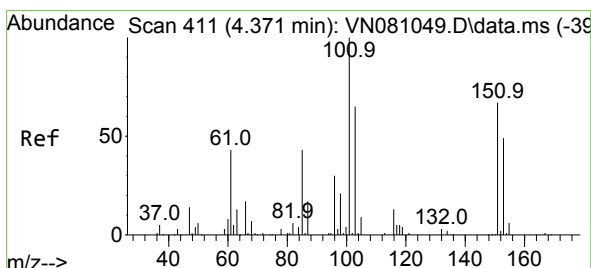
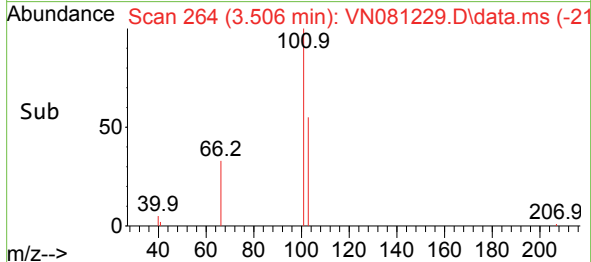
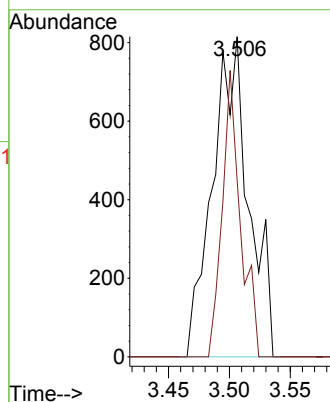
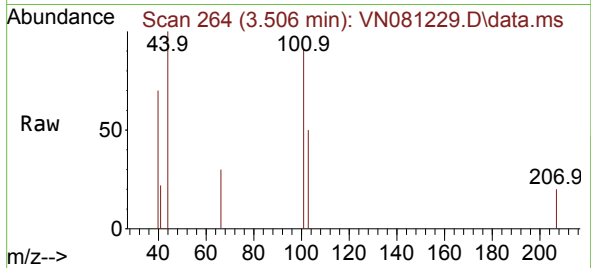




#7
Trichlorofluoromethane
Concen: 0.254 ug/l
RT: 3.506 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

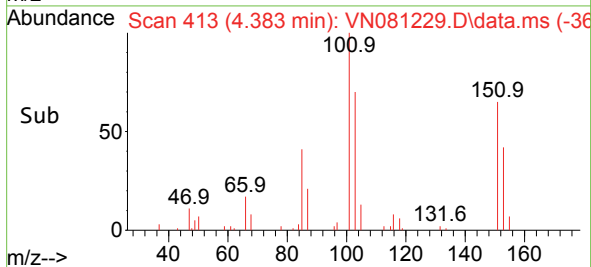
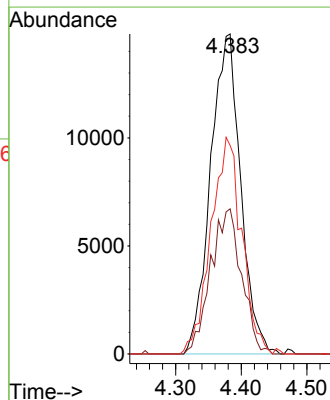
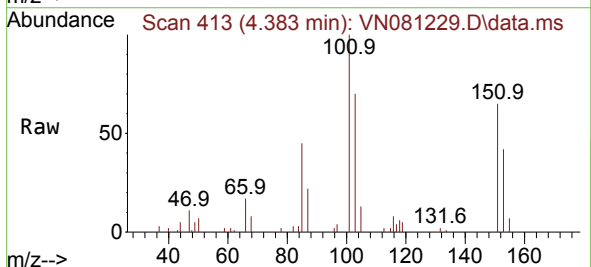
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20240222

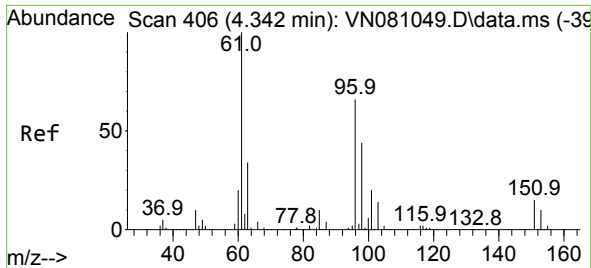
Tgt Ion:101 Resp: 1687
Ion Ratio Lower Upper
101 100
103 55.1 54.4 81.6



#9
1,1,2-Trichlorotrifluoroethane
Concen: 12.721 ug/l
RT: 4.383 min Scan# 413
Delta R.T. 0.012 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

Tgt Ion:101 Resp: 47167
Ion Ratio Lower Upper
101 100
85 46.8 38.1 57.1
151 69.2 49.1 73.7

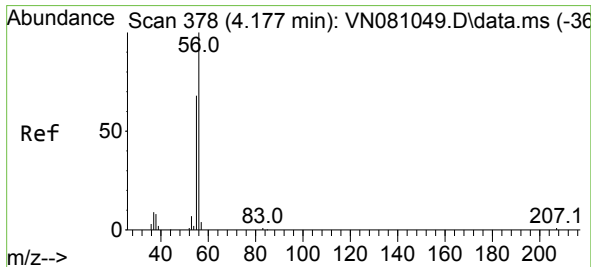
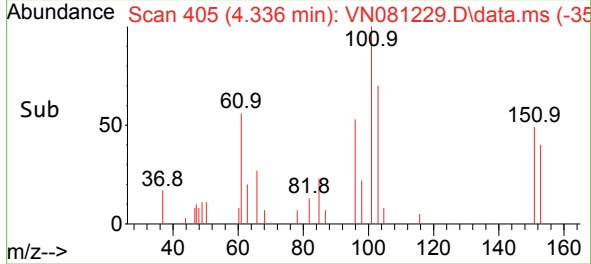
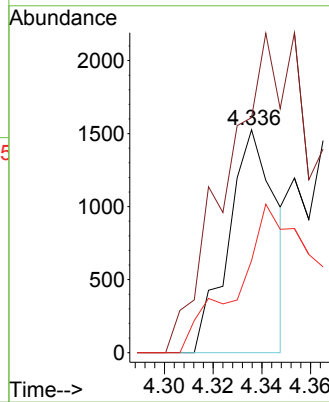
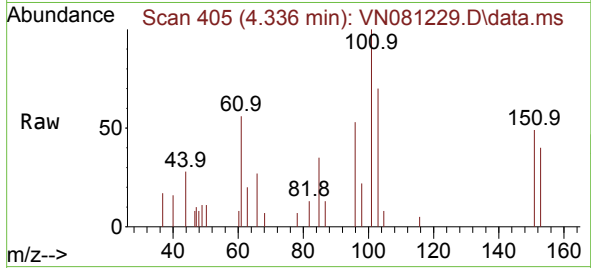




#12
1,1-Dichloroethene
Concen: 0.569 ug/l
RT: 4.336 min Scan# 406
Delta R.T. -0.006 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

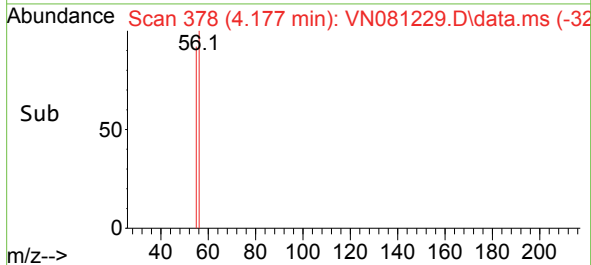
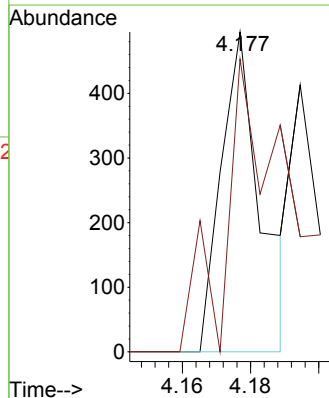
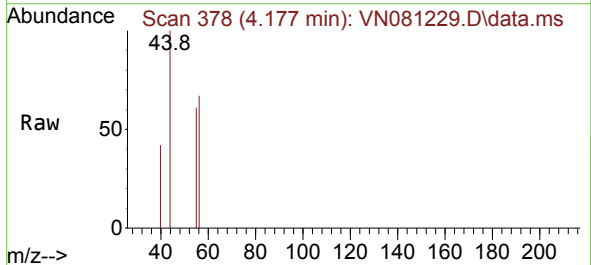
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20240222

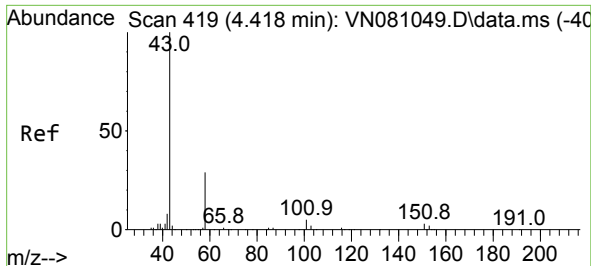
Tgt Ion: 96 Resp: 2040
Ion Ratio Lower Upper
96 100
61 86.5 138.2 207.4#
98 41.3 49.2 73.8#



#13
Acrolein
Concen: 1.047 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

Tgt Ion: 56 Resp: 401
Ion Ratio Lower Upper
56 100
55 141.6 55.3 82.9#





#16

Acetone

Concen: 1.202 ug/l

RT: 4.418 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

Instrument :

MSVOA_N

ClientSampleId :

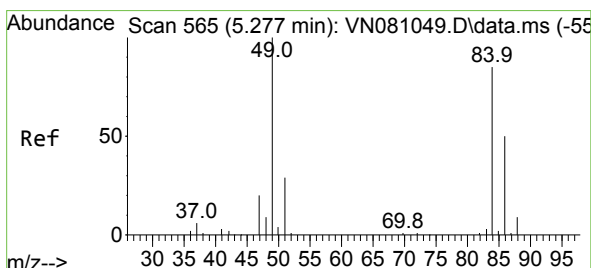
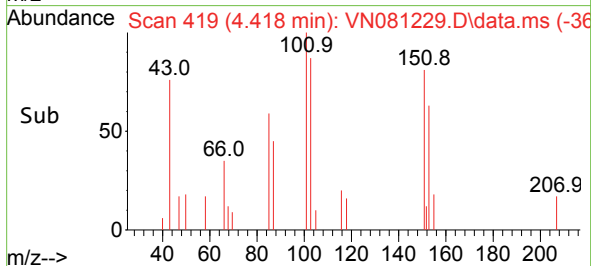
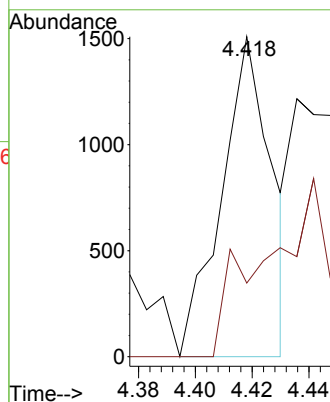
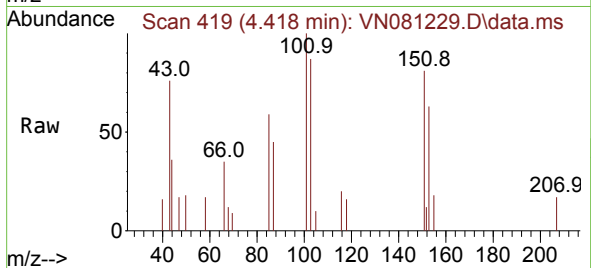
RE114D2-20240222

Tgt Ion: 43 Resp: 1837

Ion Ratio Lower Upper

43 100

58 23.0 24.8 37.2#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.283 min Scan# 566

Delta R.T. 0.006 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

Tgt Ion: 84 Resp: 845

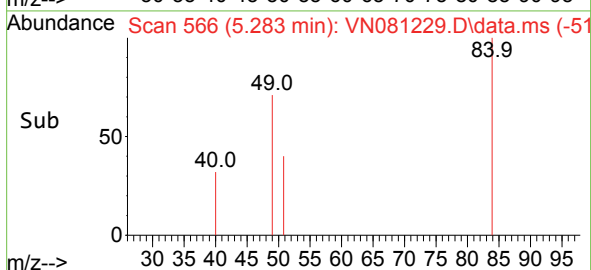
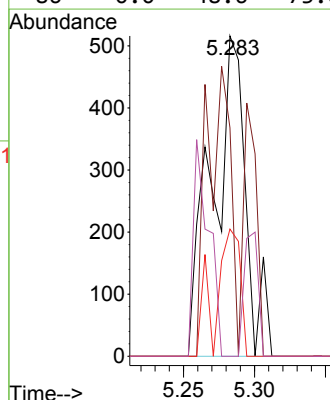
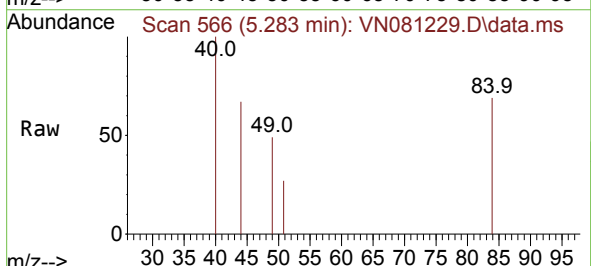
Ion Ratio Lower Upper

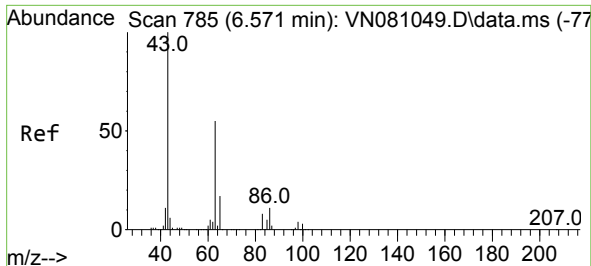
84 100

49 71.3 108.1 162.1#

51 39.7 32.9 49.3

86 0.0 48.6 73.0#

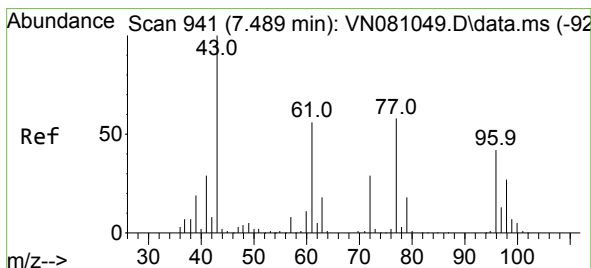
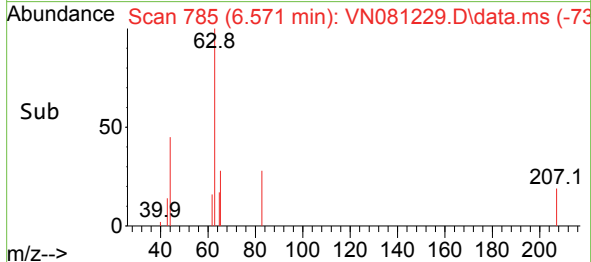
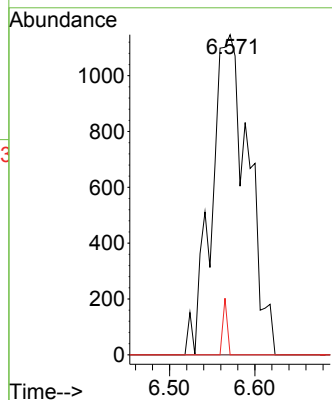
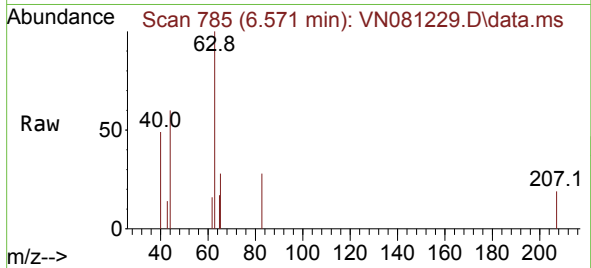




#24
1,1-Dichloroethane
Concen: 0.493 ug/l
RT: 6.571 min Scan# 714
Delta R.T. -0.000 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

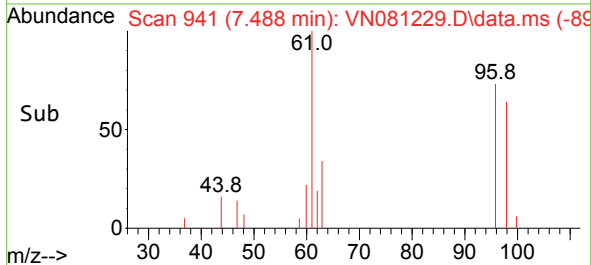
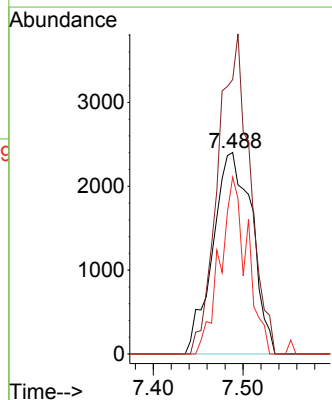
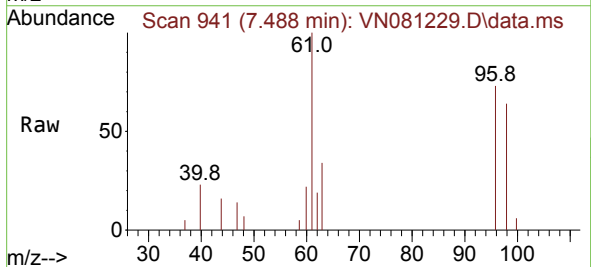
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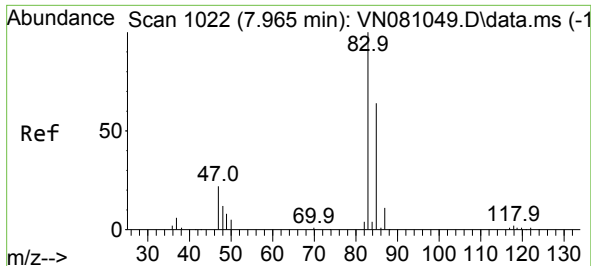
Tgt Ion: 63 Resp: 3438
Ion Ratio Lower Upper
63 100
98 0.0 2.9 8.6#
100 0.0 1.9 5.7#



#27
cis-1,2-Dichloroethene
Concen: 1.564 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

Tgt Ion: 96 Resp: 7264
Ion Ratio Lower Upper
96 100
61 129.3 0.0 325.4
98 61.5 0.0 130.4





#30

Chloroform

Concen: 0.386 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. 0.012 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

Instrument :

MSVOA_N

ClientSampleId :

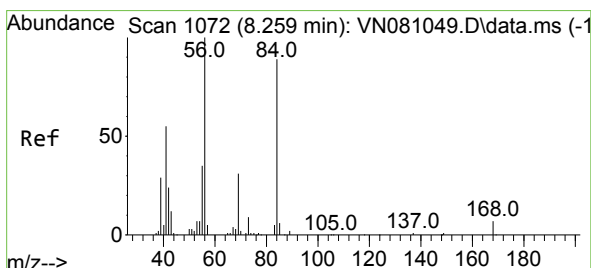
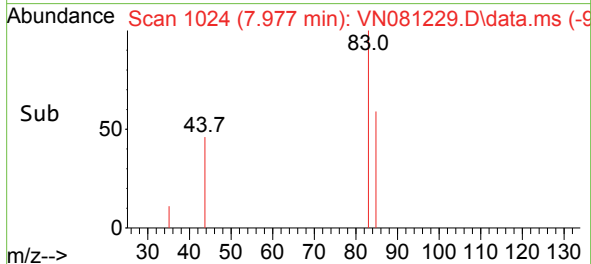
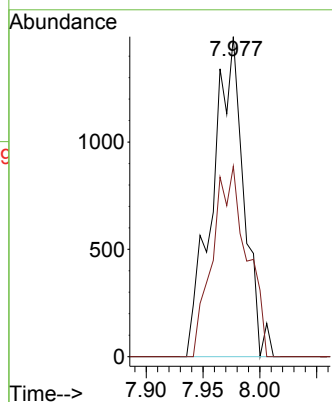
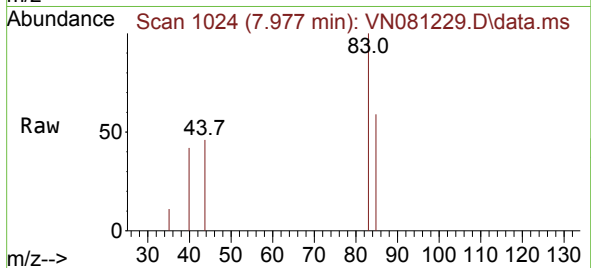
RE114D2-20240222

Tgt Ion: 83 Resp: 2861

Ion Ratio Lower Upper

83 100

85 59.5 51.0 76.6



#31

Cyclohexane

Concen: 1.404 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.041 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

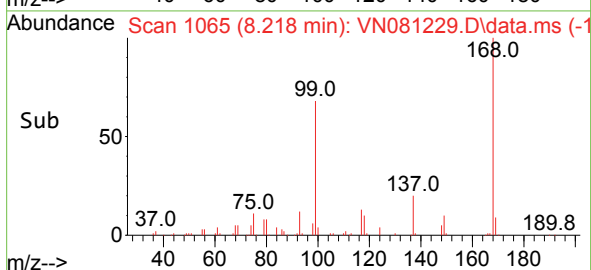
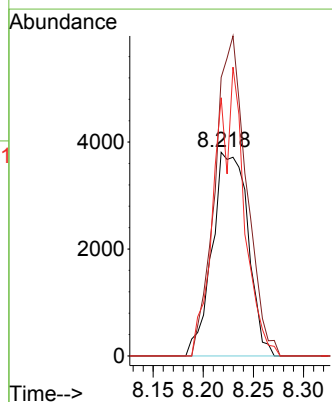
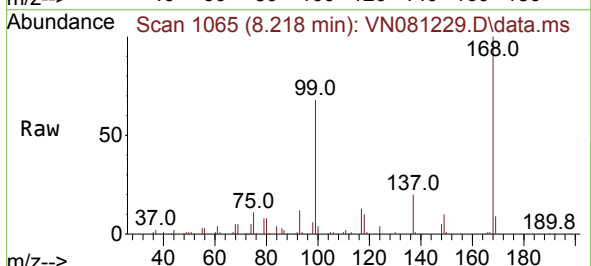
Tgt Ion: 56 Resp: 9415

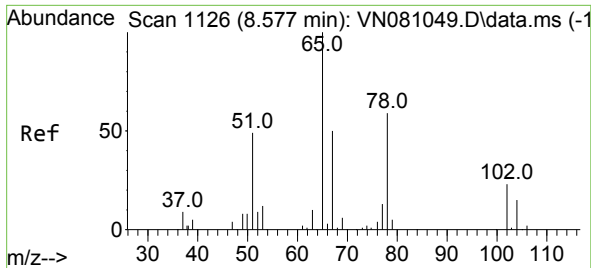
Ion Ratio Lower Upper

56 100

69 136.8 20.1 30.1#

84 126.8 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 55.081 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

Instrument :

MSVOA_N

ClientSampleId :

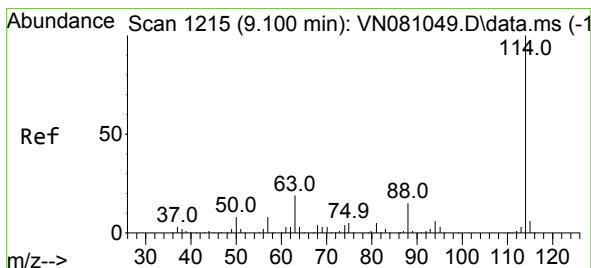
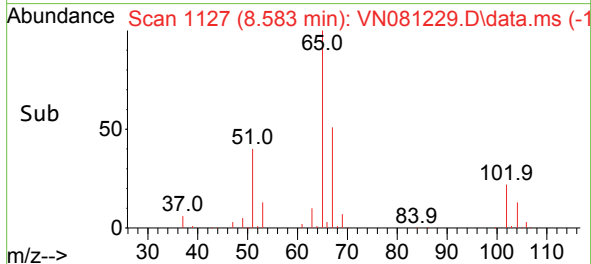
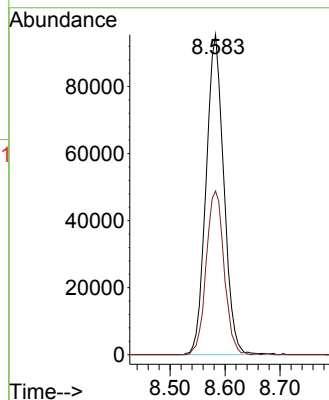
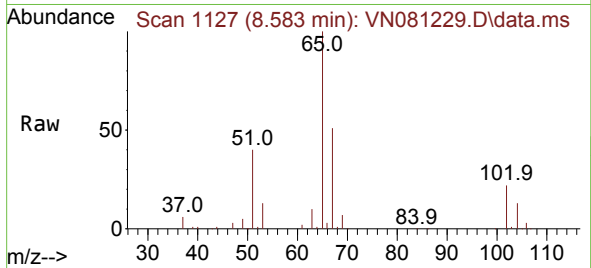
RE114D2-20240222

Tgt Ion: 65 Resp: 213975

Ion Ratio Lower Upper

65 100

67 51.6 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

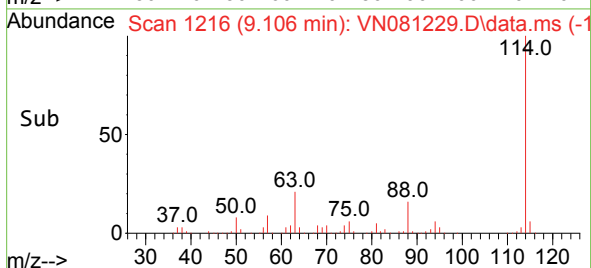
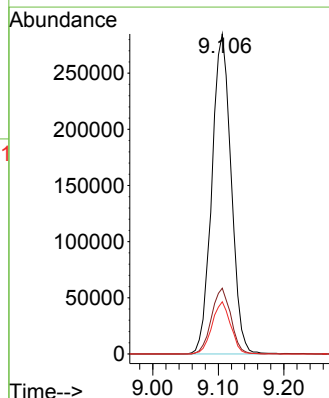
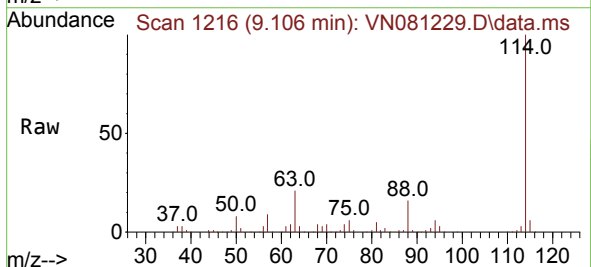
Tgt Ion:114 Resp: 581203

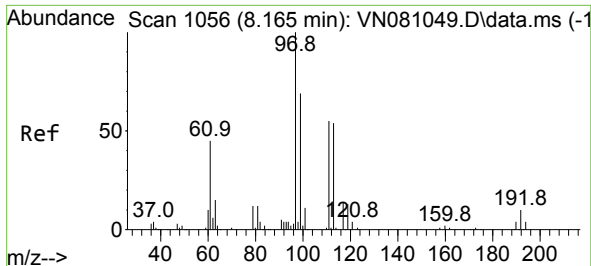
Ion Ratio Lower Upper

114 100

63 20.6 0.0 48.0

88 16.3 0.0 34.8

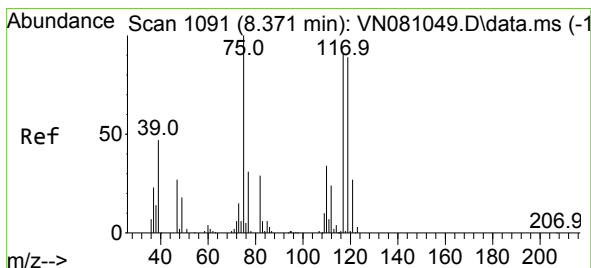
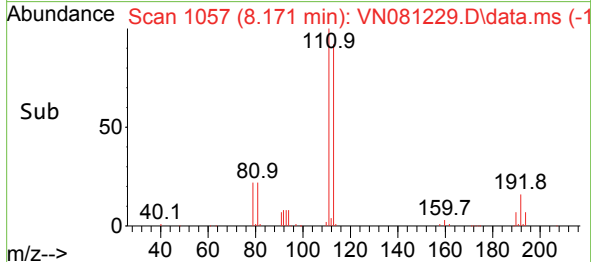
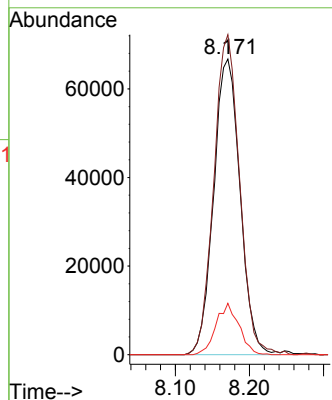
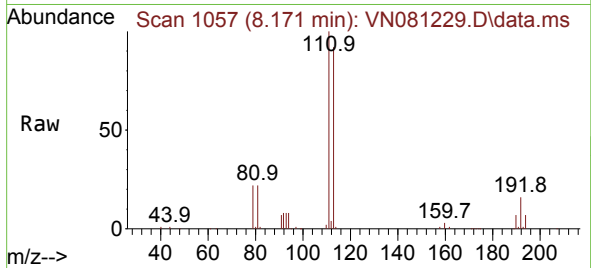




#35
 Dibromofluoromethane
 Concen: 50.249 ug/l
 RT: 8.171 min Scan# 1056
 Delta R.T. 0.006 min
 Lab File: VN081229.D
 Acq: 27 Feb 2024 19:12

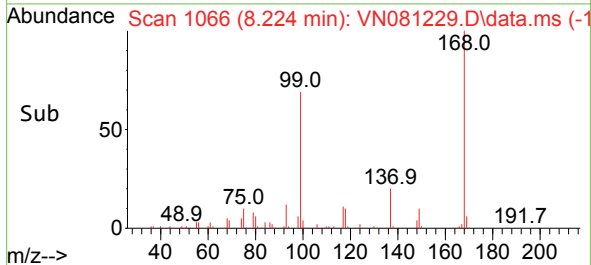
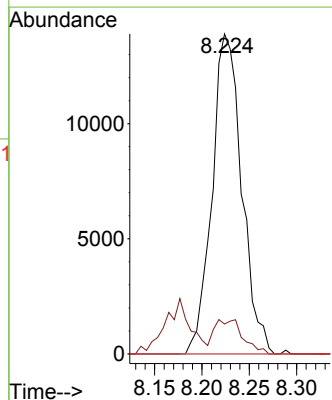
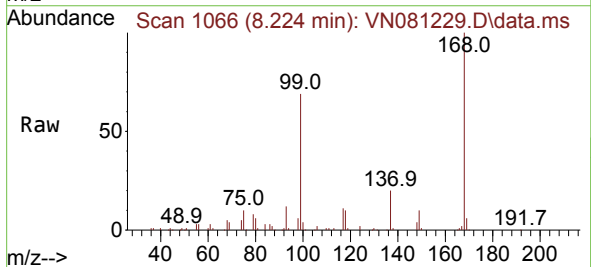
Instrument :
 MSVOA_N
 ClientSampleId :
 RE114D2-20240222

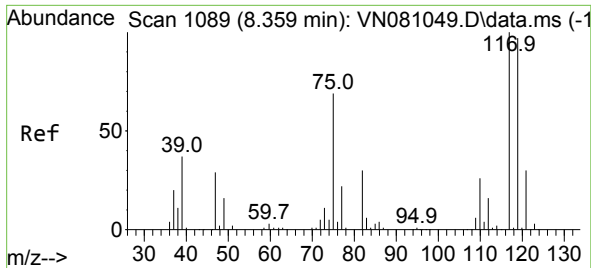
Tgt Ion:113 Resp: 165145
 Ion Ratio Lower Upper
 113 100
 111 105.8 82.2 123.4
 192 15.1 12.5 18.7



#36
 1,1-Dichloropropene
 Concen: 5.373 ug/l
 RT: 8.224 min Scan# 1066
 Delta R.T. -0.147 min
 Lab File: VN081229.D
 Acq: 27 Feb 2024 19:12

Tgt Ion: 75 Resp: 30254
 Ion Ratio Lower Upper
 75 100
 110 10.3 16.0 48.0#
 77 0.0 25.8 38.6#

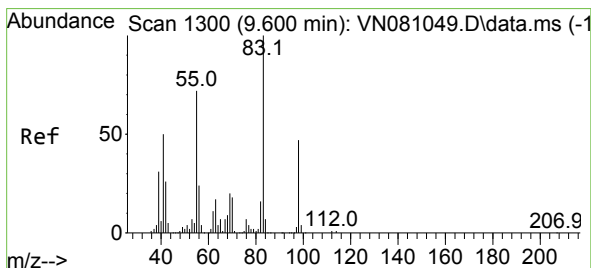
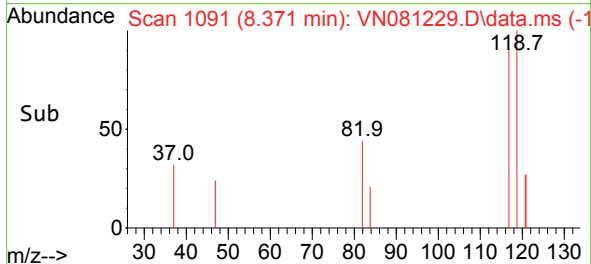
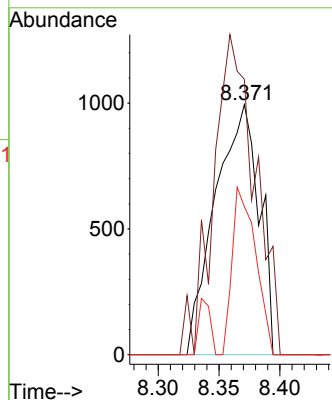
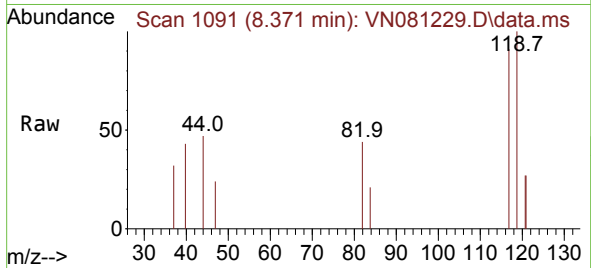




#38
Carbon Tetrachloride
Concen: 0.438 ug/l
RT: 8.371 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

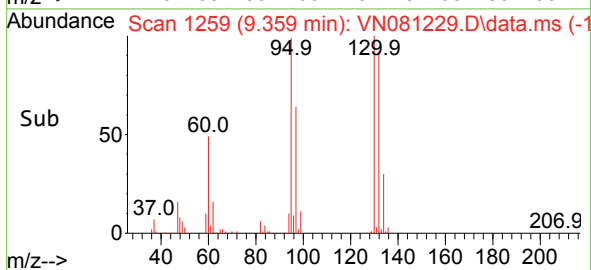
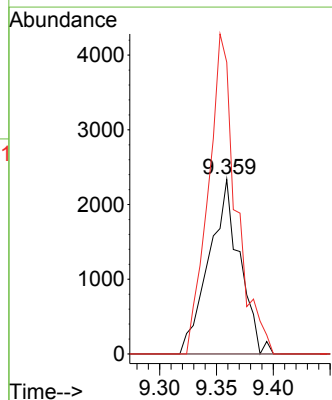
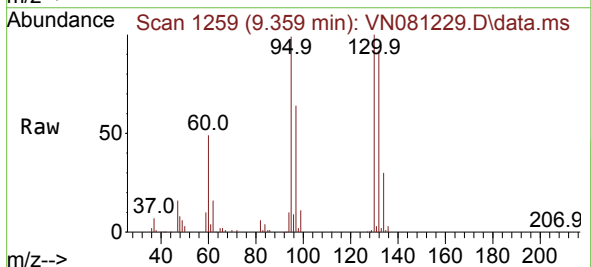
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20240222

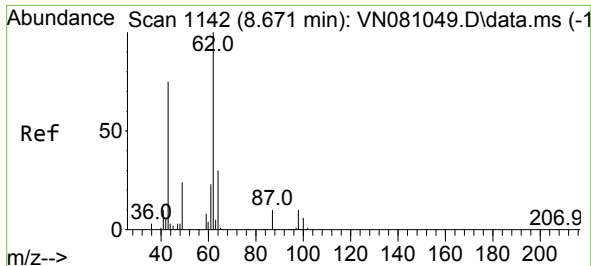
Tgt Ion:117 Resp: 2496
Ion Ratio Lower Upper
117 100
119 110.2 73.4 110.2#
121 59.3 24.4 36.6#



#39
Methylcyclohexane
Concen: 0.670 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.241 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

Tgt Ion: 83 Resp: 4398
Ion Ratio Lower Upper
83 100
55 0.0 65.7 98.5#
98 167.1 33.8 50.6#





#42

1,2-Dichloroethane

Concen: 0.280 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

Instrument :

MSVOA_N

ClientSampleId :

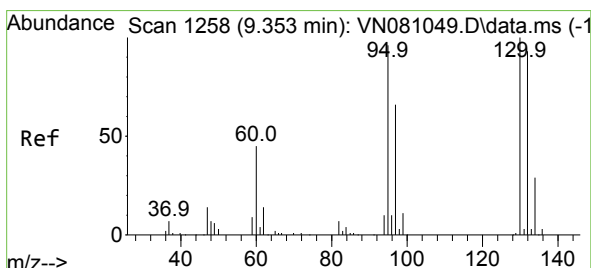
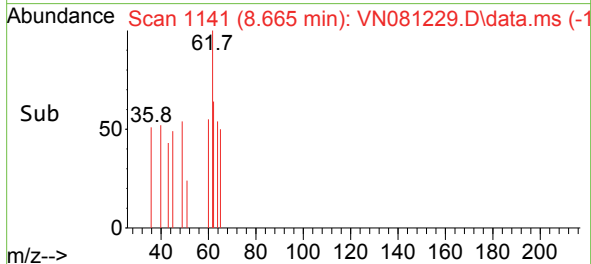
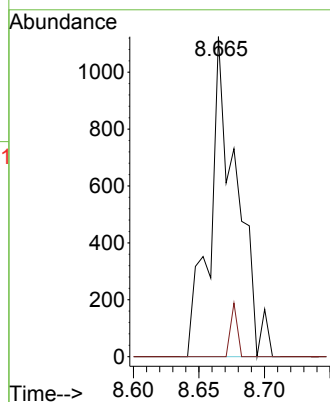
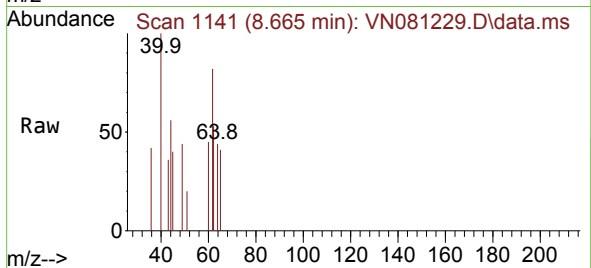
RE114D2-20240222

Tgt Ion: 62 Resp: 1593

Ion Ratio Lower Upper

62 100

98 4.1 0.0 18.0



#44

Trichloroethene

Concen: 74.916 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. -0.000 min

Lab File: VN081229.D

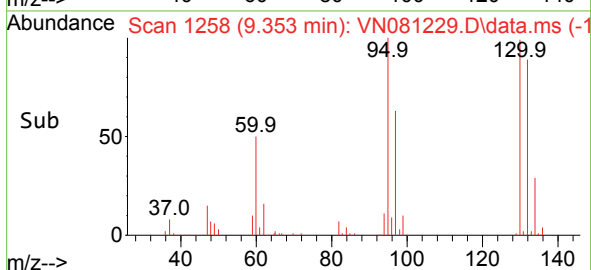
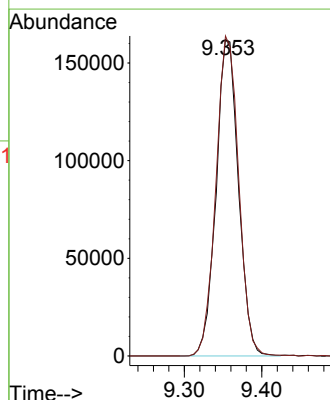
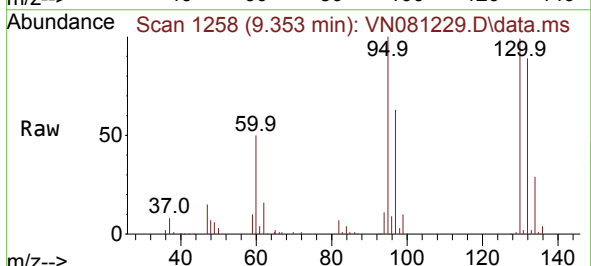
Acq: 27 Feb 2024 19:12

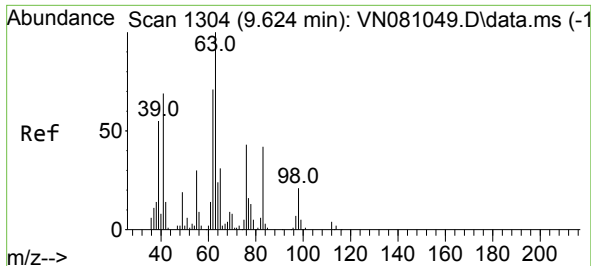
Tgt Ion:130 Resp: 325191

Ion Ratio Lower Upper

130 100

95 101.1 0.0 210.4





#45

1,2-Dichloropropane

Concen: 0.231 ug/l

RT: 9.359 min Scan# 11

Delta R.T. -0.265 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

Instrument :

MSVOA_N

ClientSampleId :

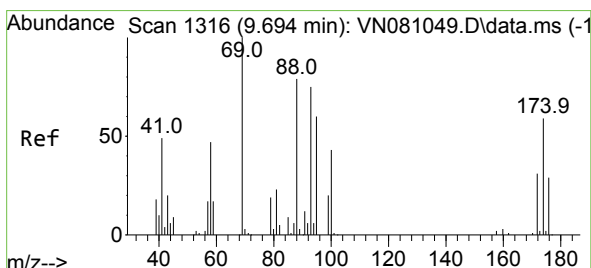
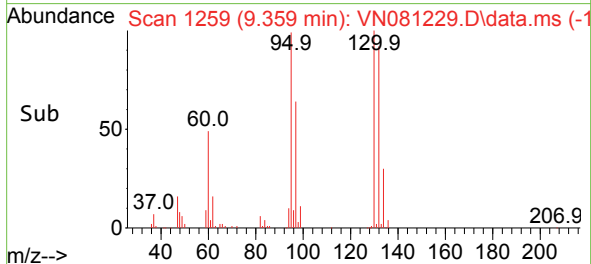
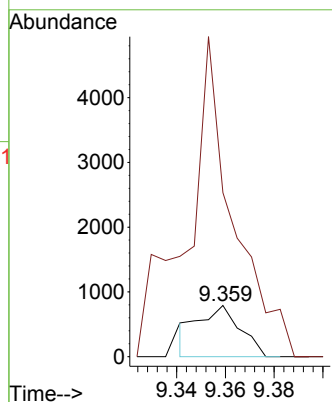
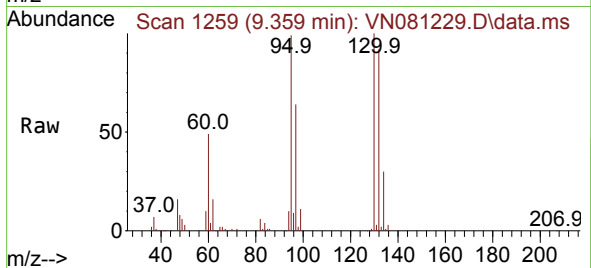
RE114D2-20240222

Tgt Ion: 63 Resp: 943

Ion Ratio Lower Upper

63 100

65 227.7 26.1 39.1#



#49

1,4-Dioxane

Concen: Below Cal

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

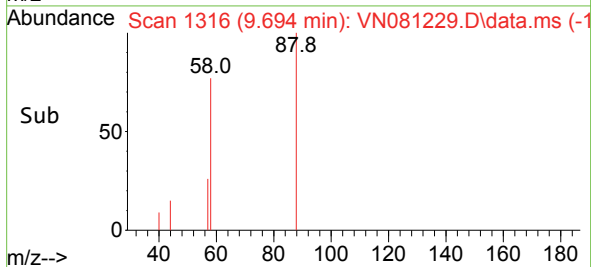
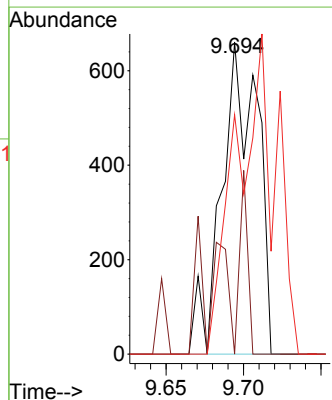
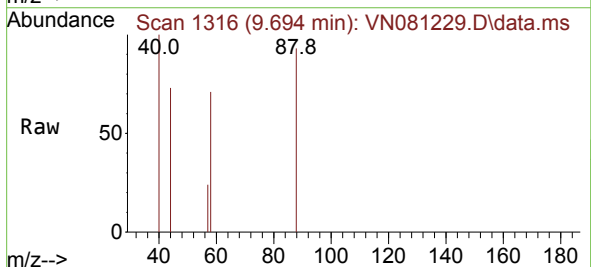
Tgt Ion: 88 Resp: 1059

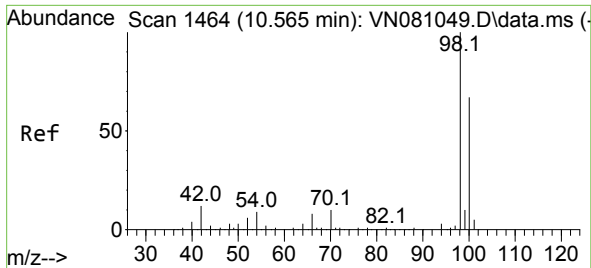
Ion Ratio Lower Upper

88 100

43 15.3 30.1 45.1#

58 0.0 63.9 95.9#

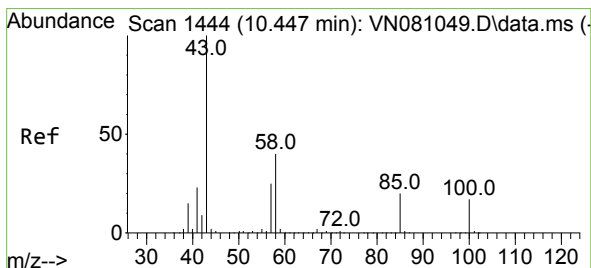
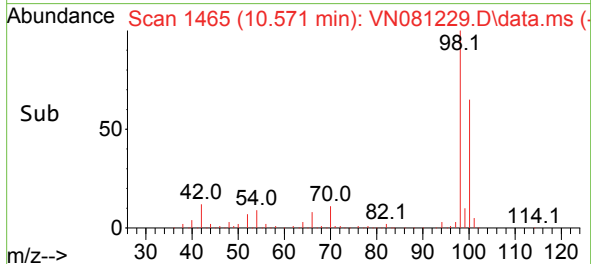
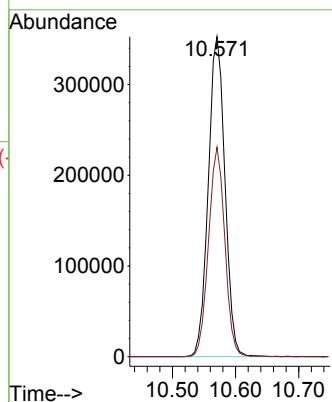
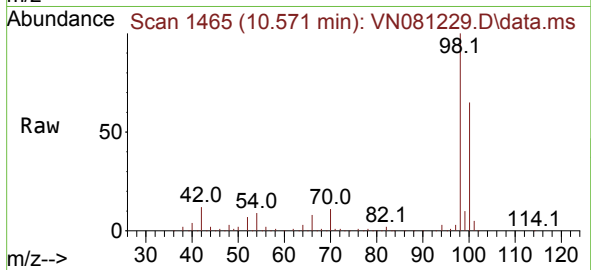




#50
Toluene-d8
Concen: 55.387 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

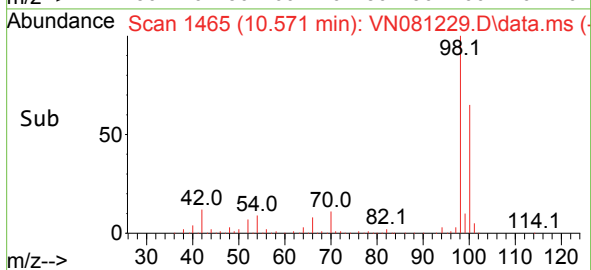
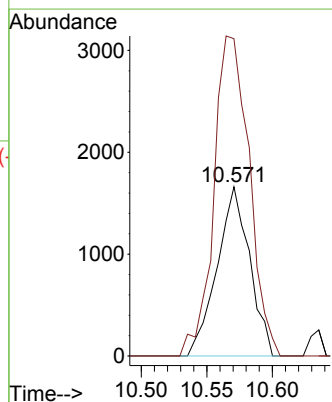
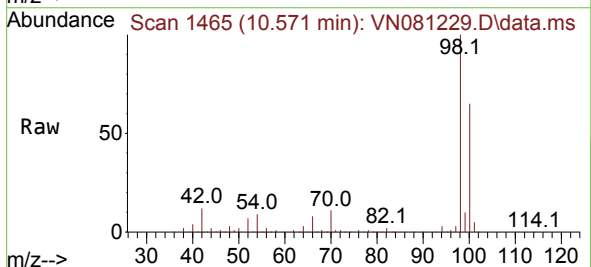
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20240222

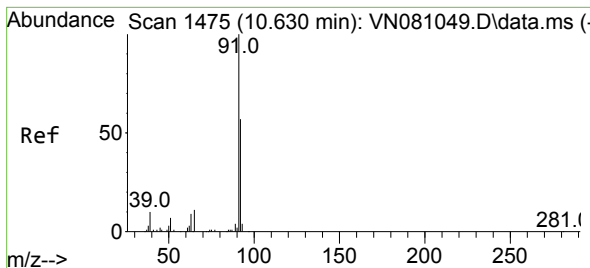
Tgt Ion: 98 Resp: 646522
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 0.562 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.123 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

Tgt Ion: 43 Resp: 2871
Ion Ratio Lower Upper
43 100
58 205.1 29.4 44.0#





#52

Toluene

Concen: 0.952 ug/l

RT: 10.635 min Scan# 1475

Delta R.T. 0.006 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

Instrument :

MSVOA_N

ClientSampleId :

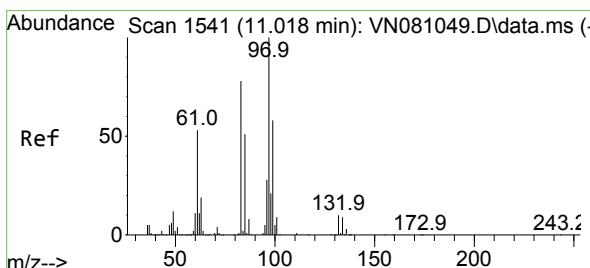
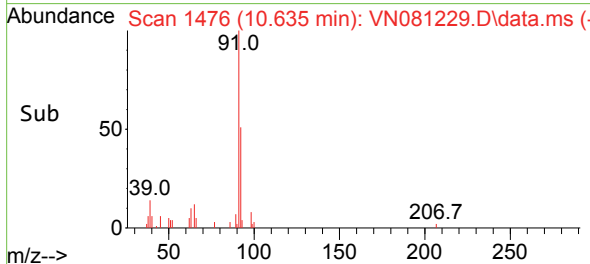
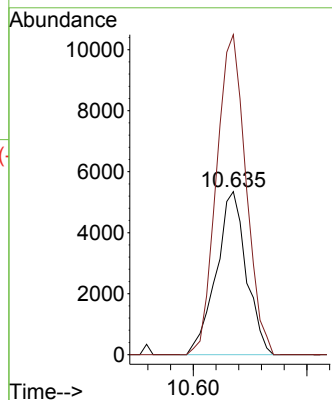
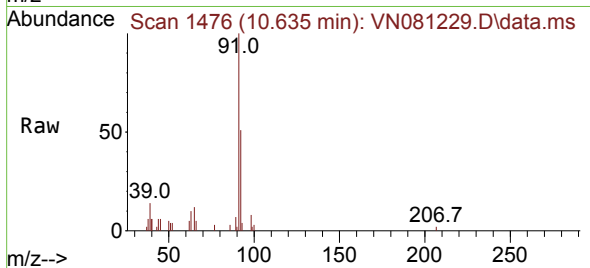
RE114D2-20240222

Tgt Ion: 92 Resp: 9823

Ion Ratio Lower Upper

92 100

91 192.4 139.4 209.0



#55

1,1,2-Trichloroethane

Concen: 0.284 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. -0.000 min

Lab File: VN081229.D

Acq: 27 Feb 2024 19:12

Tgt Ion: 97 Resp: 1128

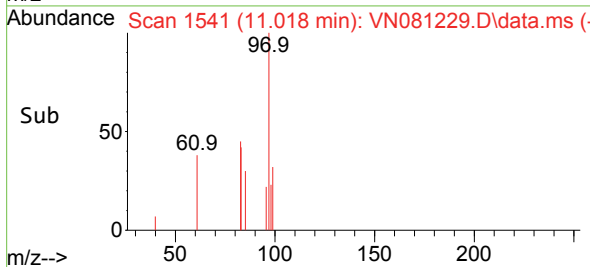
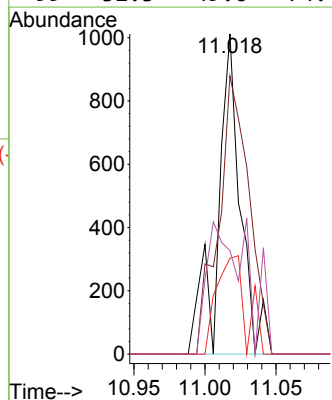
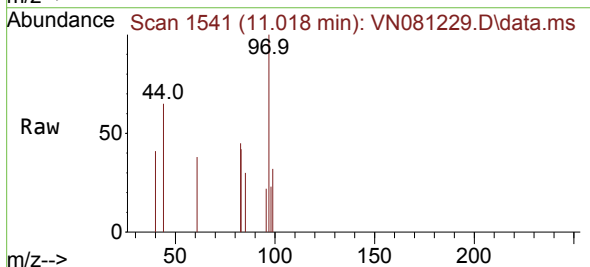
Ion Ratio Lower Upper

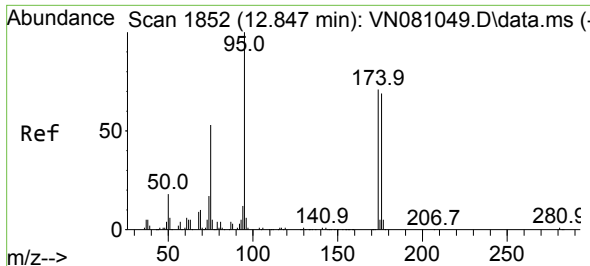
97 100

83 86.9 72.9 109.3

85 29.9 50.2 75.2#

99 32.3 49.6 74.4#

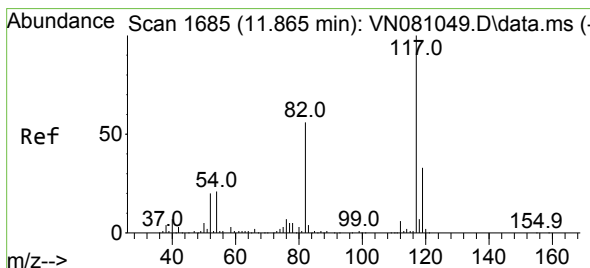
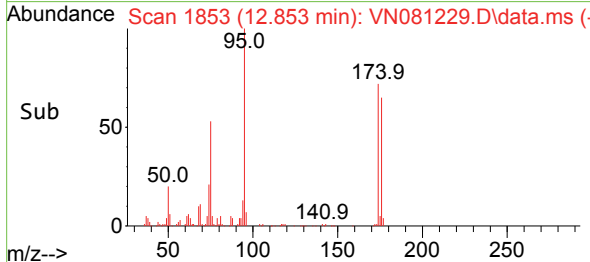
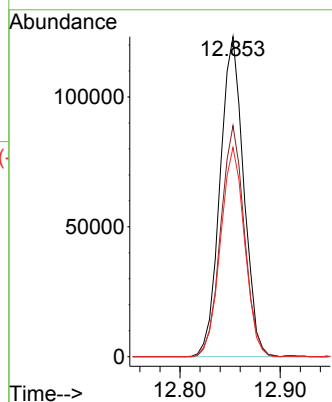
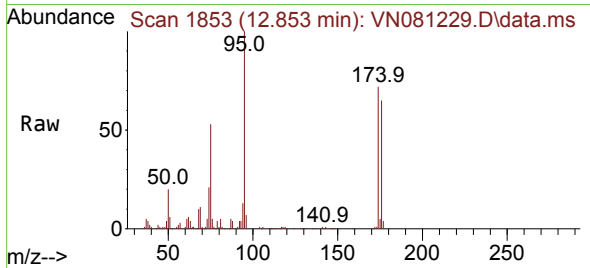




#62
4-Bromofluorobenzene
Concen: 45.844 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

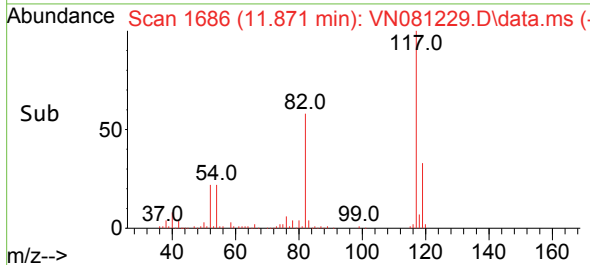
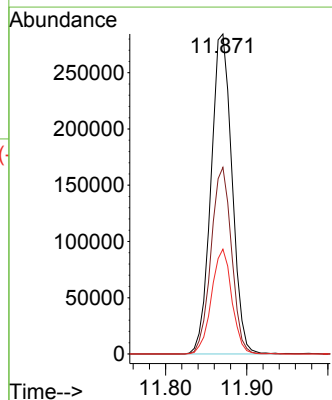
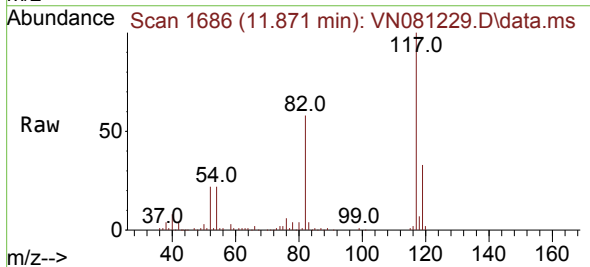
Instrument :
MSVOA_N
ClientSampleId :
RE114D2-20240222

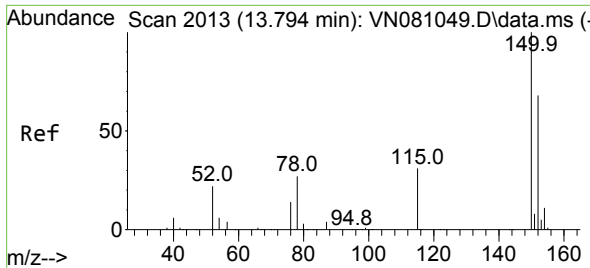
Tgt Ion:	95	Resp:	201076
Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	120.4
176	66.6	0.0	121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN081229.D
Acq: 27 Feb 2024 19:12

Tgt Ion:	117	Resp:	511721
Ion	Ratio	Lower	Upper
117	100		
82	58.3	52.7	79.1
119	32.8	25.3	37.9

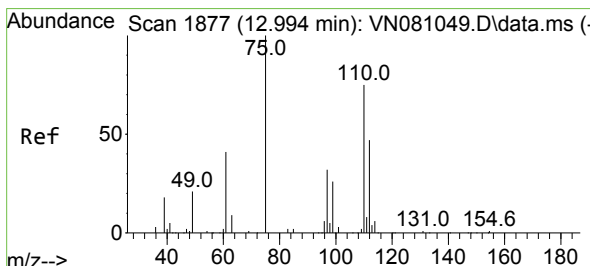
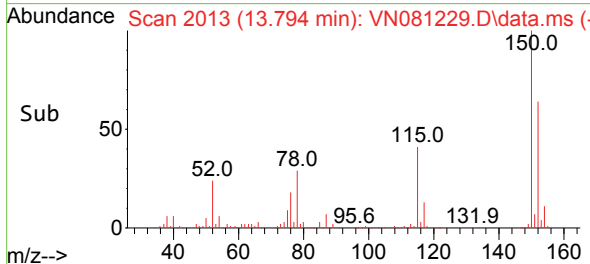
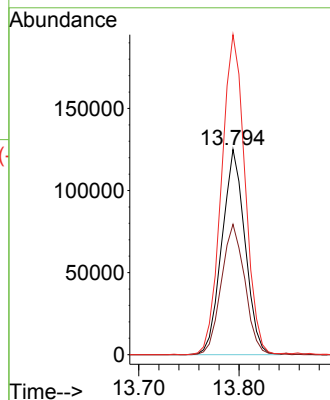
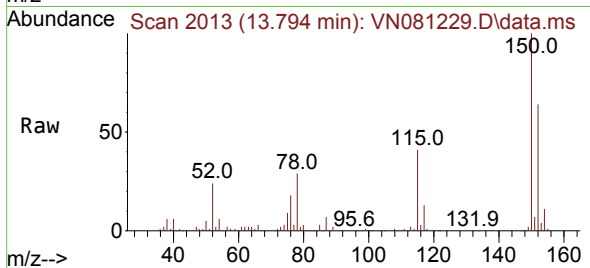




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN081229.D
 Acq: 27 Feb 2024 19:12

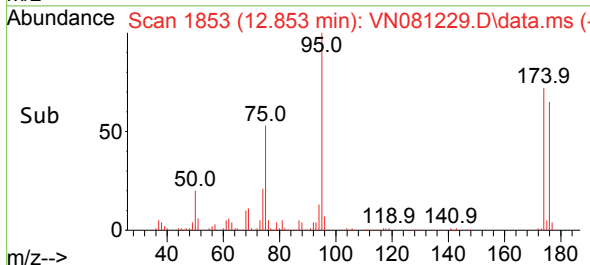
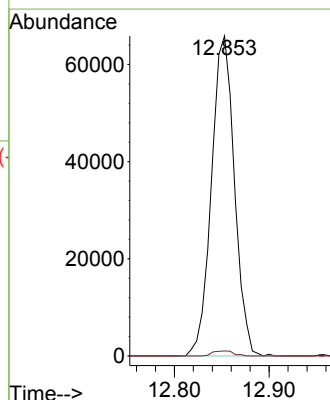
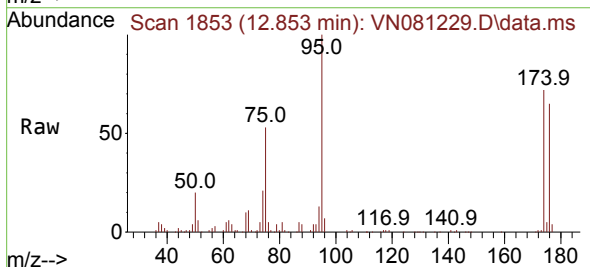
Instrument :
 MSVOA_N
 ClientSampleId :
 RE114D2-20240222

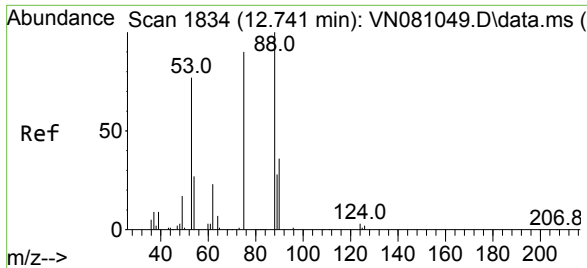
Tgt Ion:152 Resp: 199922
 Ion Ratio Lower Upper
 152 100
 115 64.6 32.3 96.8
 150 158.7 0.0 339.8



#76
 1,2,3-Trichloropropane
 Concen: 24.419 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.141 min
 Lab File: VN081229.D
 Acq: 27 Feb 2024 19:12

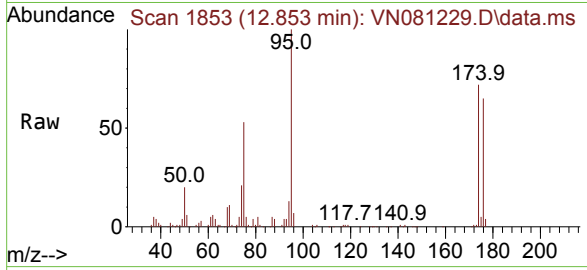
Tgt Ion: 75 Resp: 110919
 Ion Ratio Lower Upper
 75 100
 77 1.4 91.0 272.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.852 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN081229.D
 Acq: 27 Feb 2024 19:12

Instrument :
 MSVOA_N
 ClientSampleId :
 RE114D2-20240222



Tgt Ion: 75 Resp: 110919
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.4 107.2#
 89 0.2 33.4 50.0#

