

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030124\
 Data File : VN081289.D
 Acq On : 01 Mar 2024 16:43
 Operator : JC\MD
 Sample : P1659-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-16

Quant Time: Mar 01 22:20:31 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

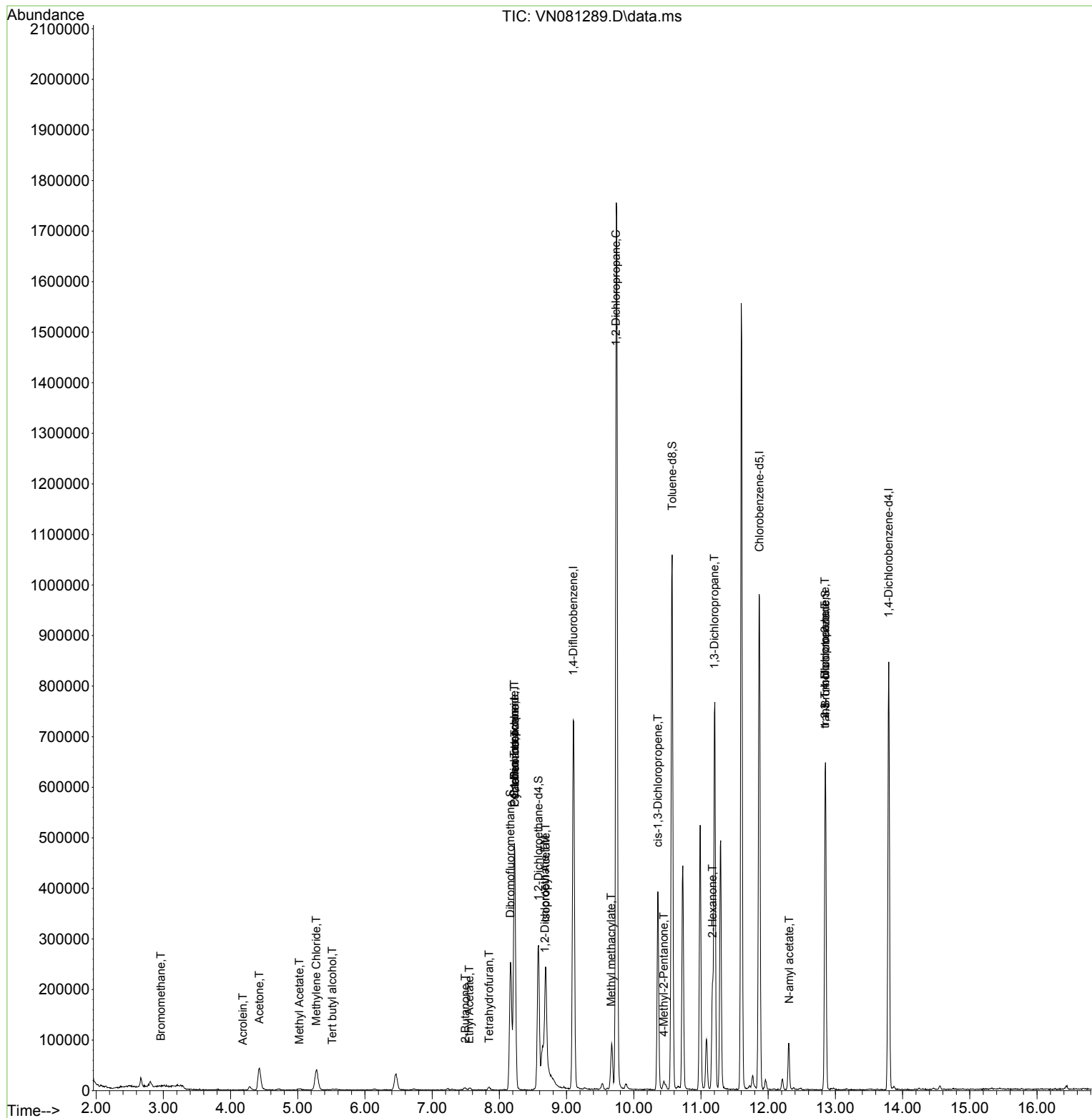
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

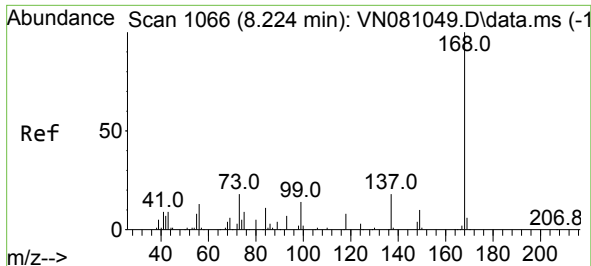
Internal Standards						
1) Pentafluorobenzene	8.230	168	327268	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	629563	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	561944	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	213217	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	230099	57.361	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.720%			
35) Dibromofluoromethane	8.165	113	182991	51.402	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.800%			
50) Toluene-d8	10.571	98	716593	56.674	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 113.340%#			
62) 4-Bromofluorobenzene	12.853	95	226034	47.575	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.160%			
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	1009	Below Cal		94
5) Bromomethane	2.965	94	869	0.260 ug/l #		63
6) Chloroethane	3.101	64	56	Below Cal #		42
11) Tert butyl alcohol	5.512	59	1684	2.283 ug/l #		72
13) Acrolein	4.183	56	122	0.309 ug/l #		1
16) Acetone	4.430	43	84939	53.814 ug/l		93
18) Methyl Acetate	5.024	43	3853	1.001 ug/l		95
20) Methylene Chloride	5.277	84	33154	7.326 ug/l #		84
25) 2-Butanone	7.494	43	7516	2.948 ug/l #		88
29) Tetrahydrofuran	7.847	42	4387	2.577 ug/l		97
31) Cyclohexane	8.230	56	9249	1.335 ug/l #		1
36) 1,1-Dichloropropene	8.224	75	31152	5.108 ug/l #		48
37) Ethyl Acetate	7.553	43	6366	1.157 ug/l #		77
38) Carbon Tetrachloride	8.224	117	40232	6.520 ug/l #		18
42) 1,2-Dichloroethane	8.677	62	1968	0.320 ug/l #		75
43) Isopropyl Acetate	8.688	43	385579	40.052 ug/l #		77
45) 1,2-Dichloropropane	9.735	63	2091	0.474 ug/l #		42
48) Methyl methacrylate	9.665	41	5831	1.302 ug/l #		47
49) 1,4-Dioxane	9.735	88	240	Below Cal #		1
51) 4-Methyl-2-Pentanone	10.447	43	17099	3.088 ug/l #		79
54) cis-1,3-Dichloropropene	10.359	75	69135	9.449 ug/l #		63
57) 1,3-Dichloropropane	11.200	76	8475	1.140 ug/l #		43
59) 2-Hexanone	11.171	43	160237	36.497 ug/l #		26
74) N-amyl acetate	12.312	43	26004	3.298 ug/l #		57
76) 1,2,3-Trichloropropane	12.847	75	122588	25.305 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.847	75	122588	65.133 ug/l #		14

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

Instrument :
MSVOA_N
ClientSampleId :
TP-16

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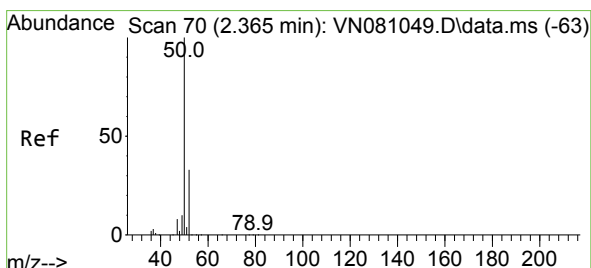
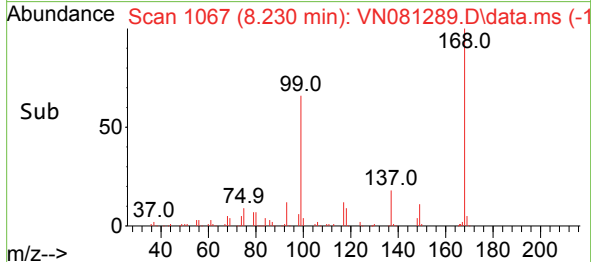
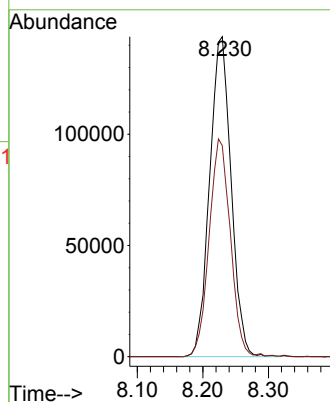
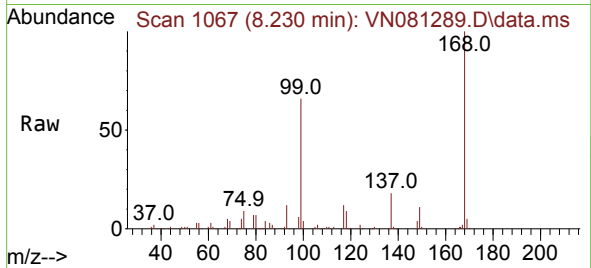




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

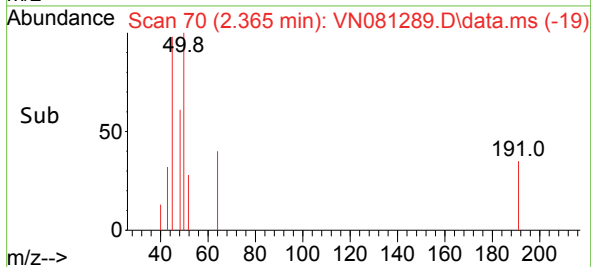
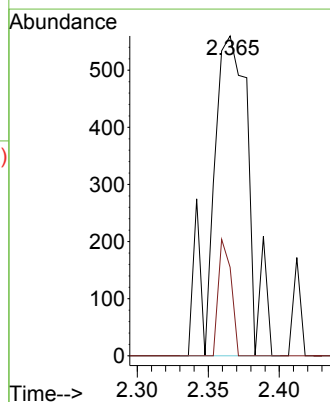
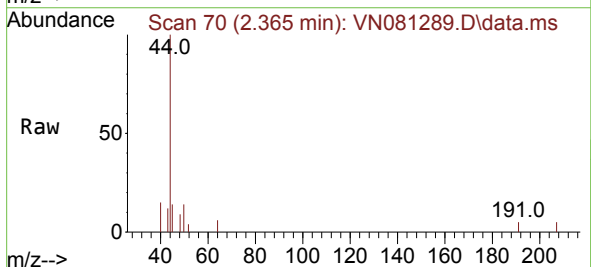
Instrument :
MSVOA_N
ClientSampleId :
TP-16

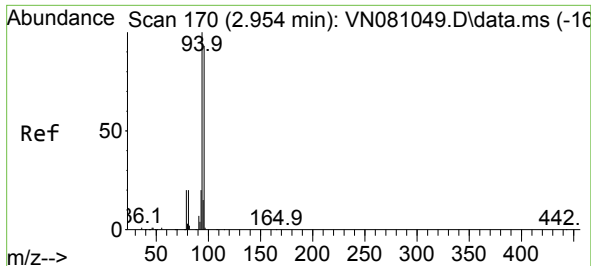
Tgt Ion:168 Resp: 327268
Ion Ratio Lower Upper
168 100
99 66.0 59.9 89.9



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Tgt Ion: 50 Resp: 1009
Ion Ratio Lower Upper
50 100
52 27.7 25.0 37.4

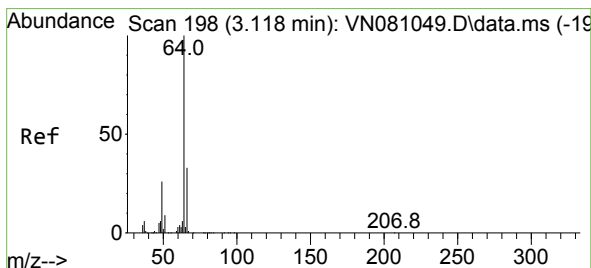
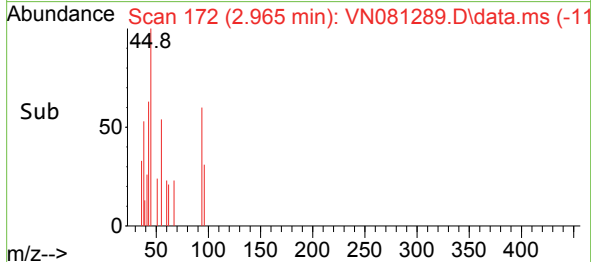
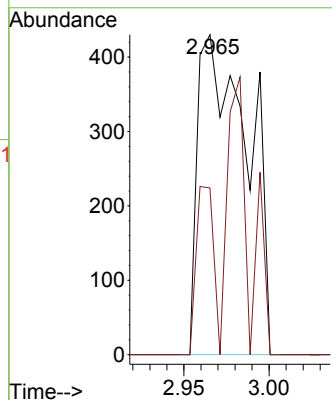
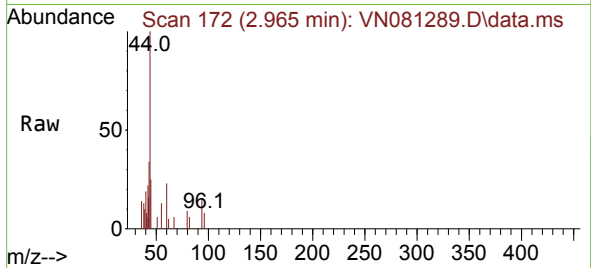




#5
Bromomethane
Concen: 0.260 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

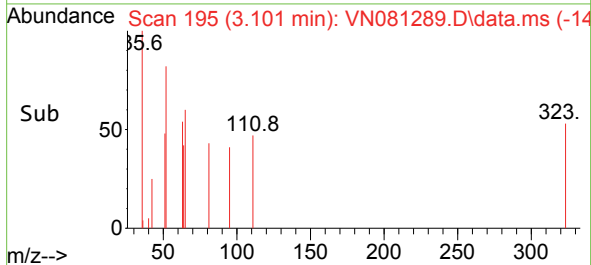
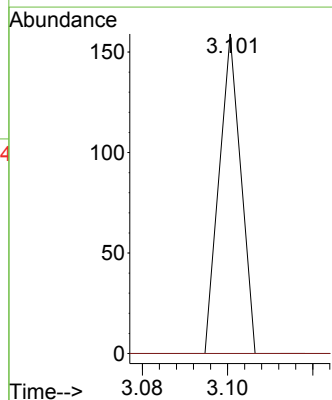
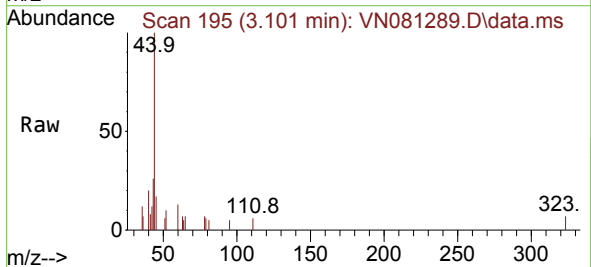
Instrument :
MSVOA_N
ClientSampleId :
TP-16

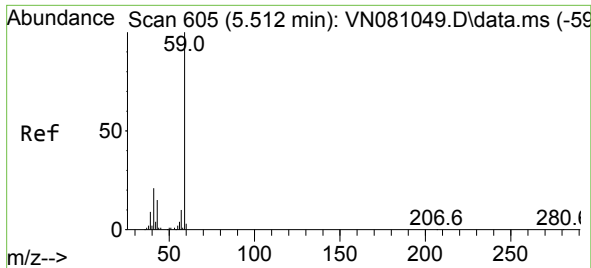
Tgt Ion: 94 Resp: 869
Ion Ratio Lower Upper
94 100
96 52.1 69.2 103.8#



#6
Chloroethane
Concen: Below Cal
RT: 3.101 min Scan# 195
Delta R.T. -0.017 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Tgt Ion: 64 Resp: 56
Ion Ratio Lower Upper
64 100
66 0.0 26.4 39.6#

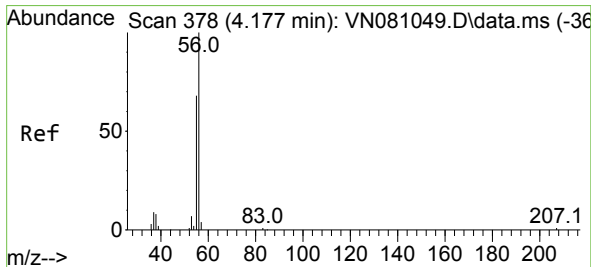
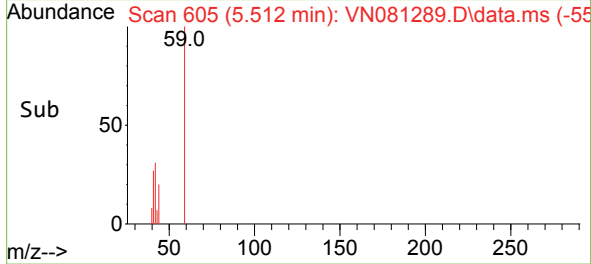
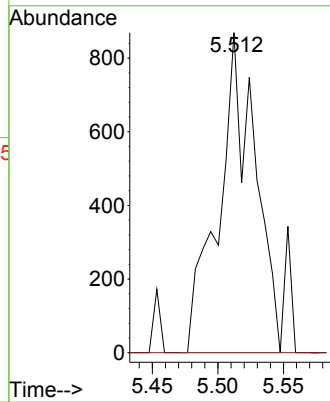
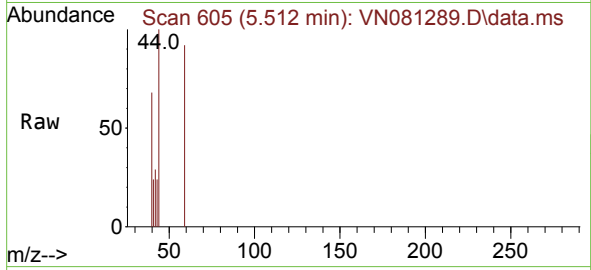




#11
Tert butyl alcohol
Concen: 2.283 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

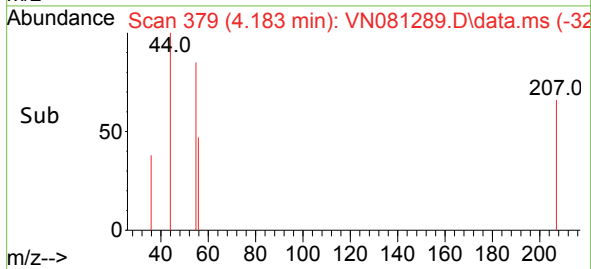
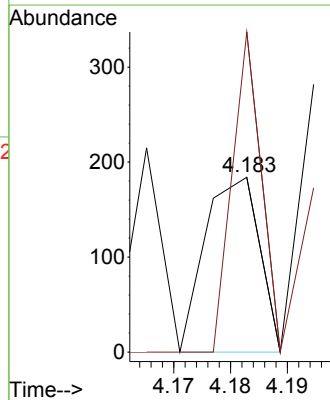
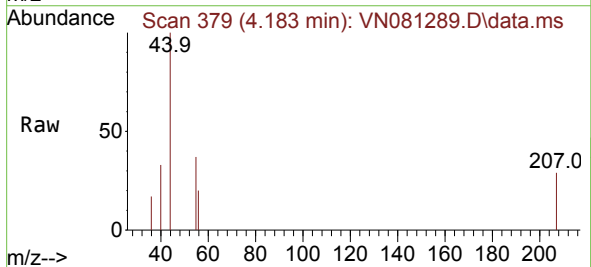
Instrument :
MSVOA_N
ClientSampleId :
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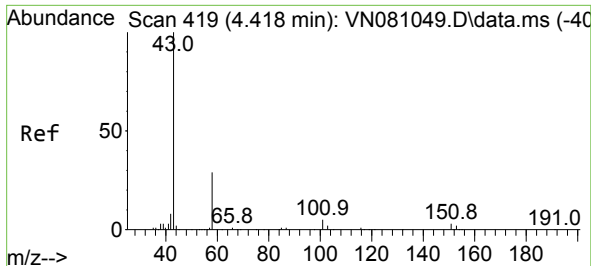
Tgt Ion: 59 Resp: 1684
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.309 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Tgt Ion: 56 Resp: 122
Ion Ratio Lower Upper
56 100
55 191.8 55.3 82.9#

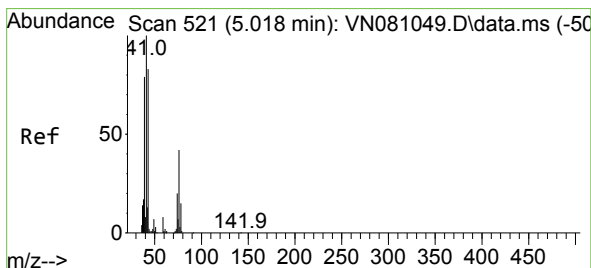
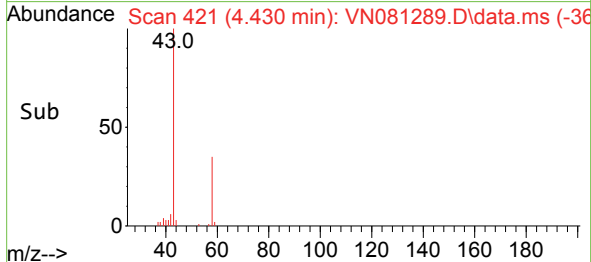
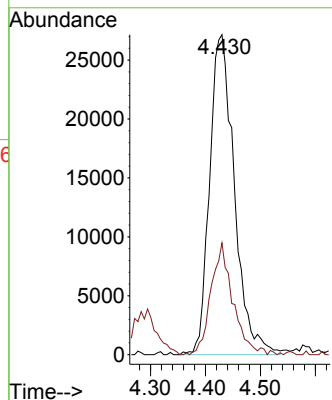
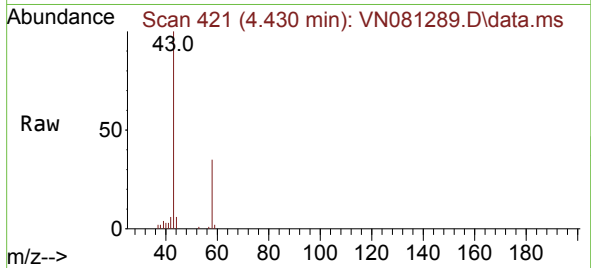




#16
Acetone
Concen: 53.814 ug/l
RT: 4.430 min Scan# 419
Delta R.T. 0.012 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

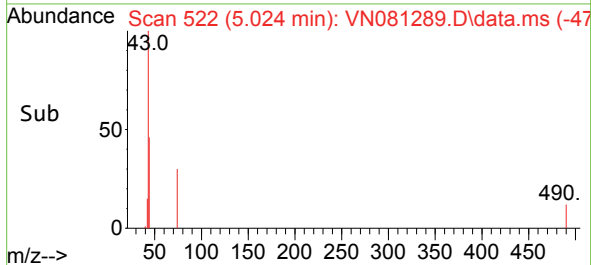
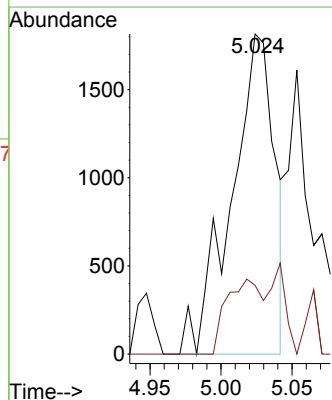
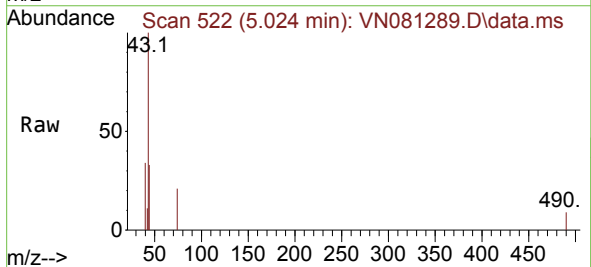
Instrument :
MSVOA_N
ClientSampleId :
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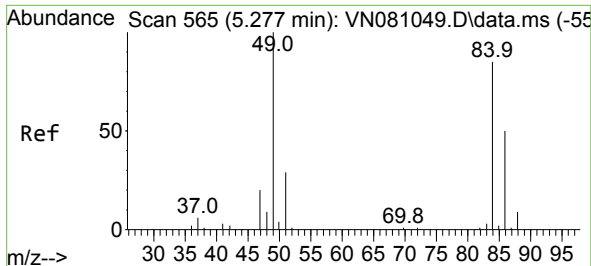
Tgt Ion: 43 Resp: 84939
Ion Ratio Lower Upper
43 100
58 34.9 24.8 37.2



#18
Methyl Acetate
Concen: 1.001 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

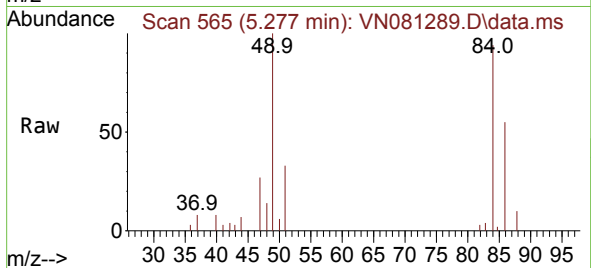
Tgt Ion: 43 Resp: 3853
Ion Ratio Lower Upper
43 100
74 19.2 17.3 25.9



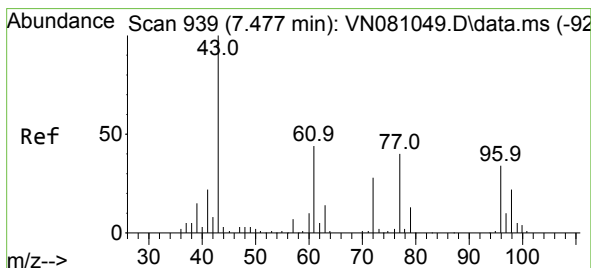
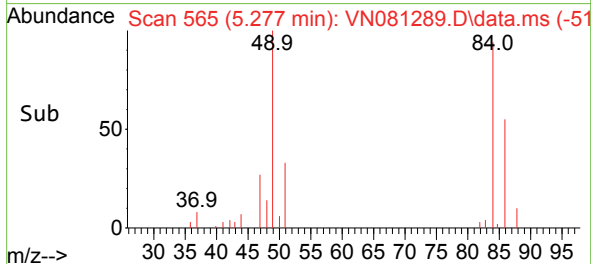
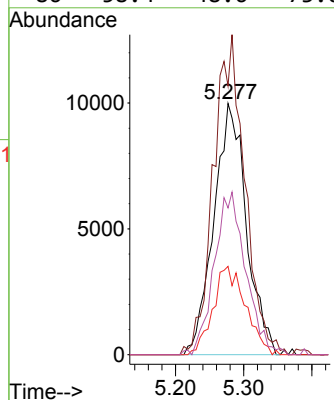


#20
Methylene Chloride
Concen: 7.326 ug/l
RT: 5.277 min Scan# 501
Delta R.T. -0.000 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Instrument :
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ClientSampleId :
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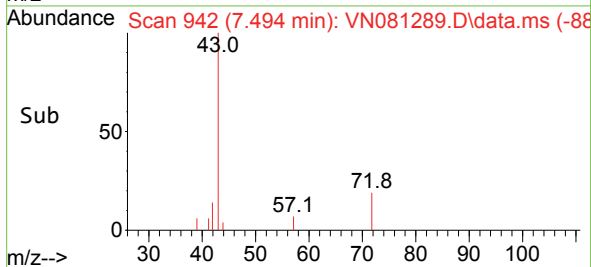
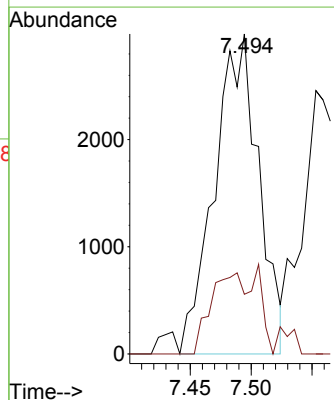
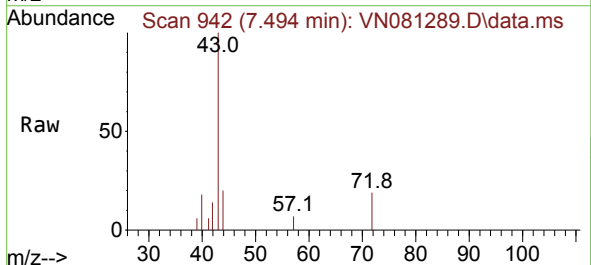


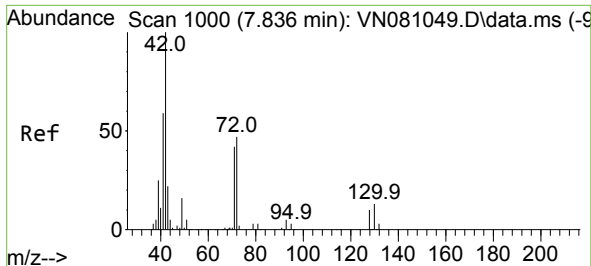
Tgt Ion: 84 Resp: 33154
Ion Ratio Lower Upper
84 100
49 107.0 108.1 162.1#
51 35.2 32.9 49.3
86 58.4 48.6 73.0



#25
2-Butanone
Concen: 2.948 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Tgt Ion: 43 Resp: 7516
Ion Ratio Lower Upper
43 100
72 18.6 19.5 29.3#

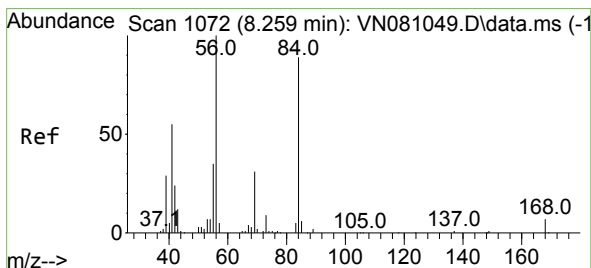
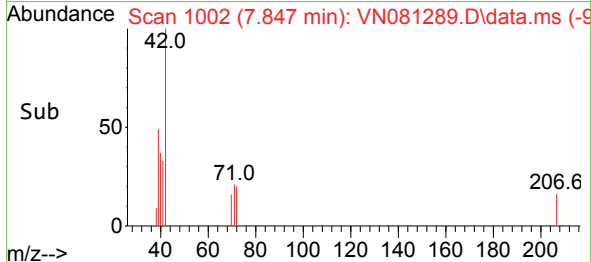
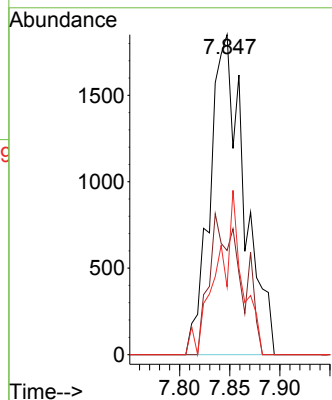
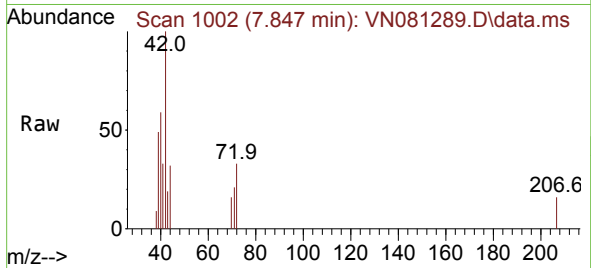




#29
Tetrahydrofuran
Concen: 2.577 ug/l
RT: 7.847 min Scan# 1067
Delta R.T. 0.012 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

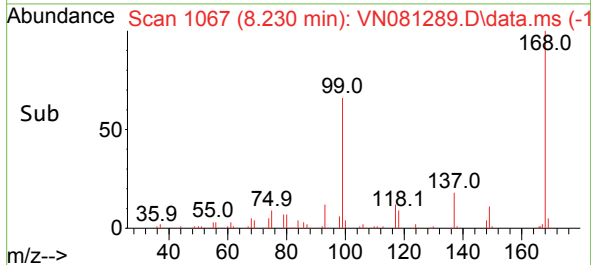
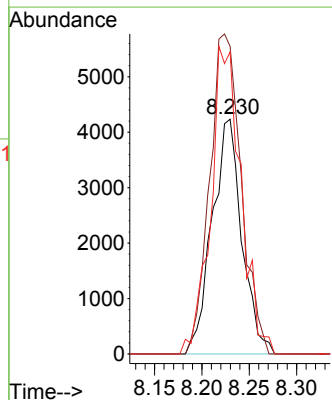
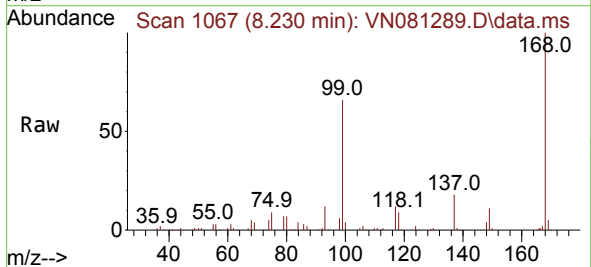
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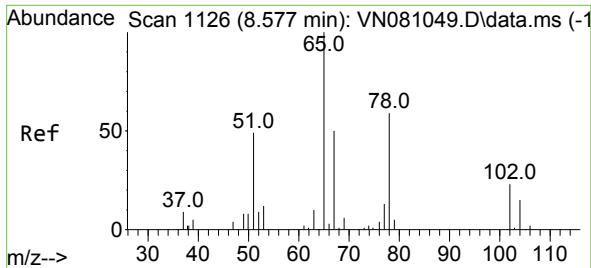
Tgt Ion: 42 Resp: 4387
Ion Ratio Lower Upper
42 100
72 40.4 31.1 46.7
71 37.1 28.3 42.5



#31
Cyclohexane
Concen: 1.335 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Tgt Ion: 56 Resp: 9249
Ion Ratio Lower Upper
56 100
69 131.0 20.1 30.1#
84 128.7 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 57.361 ug/l

RT: 8.583 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN081289.D

Acq: 01 Mar 2024 16:43

Instrument :

MSVOA_N

ClientSampleId :

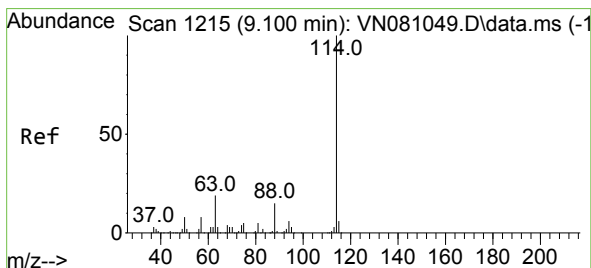
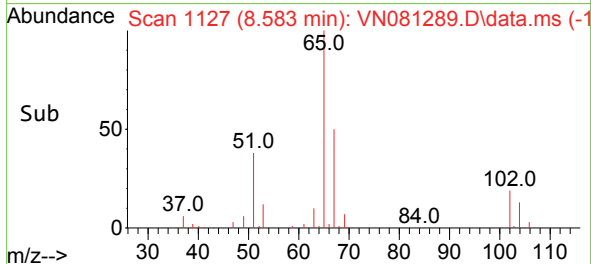
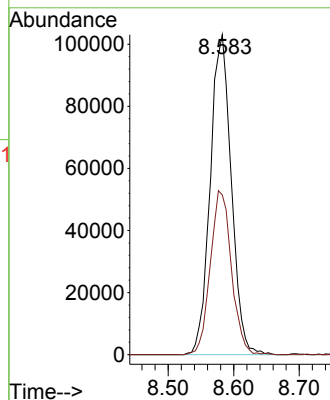
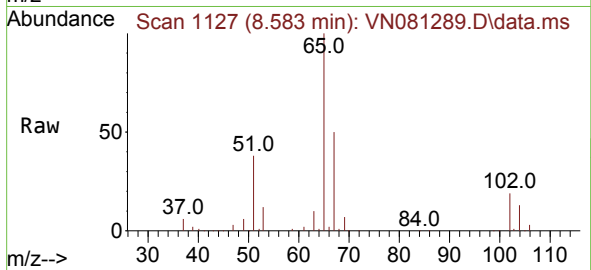
TP-16

Tgt Ion: 65 Resp: 230099

Ion Ratio Lower Upper

65 100

67 51.4 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN081289.D

Acq: 01 Mar 2024 16:43

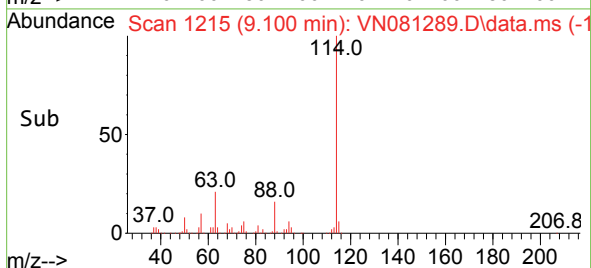
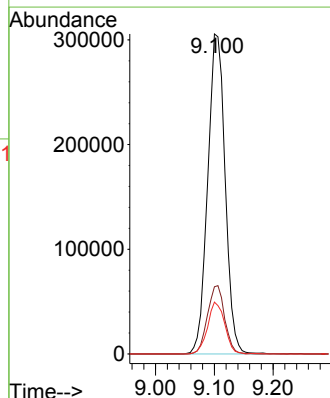
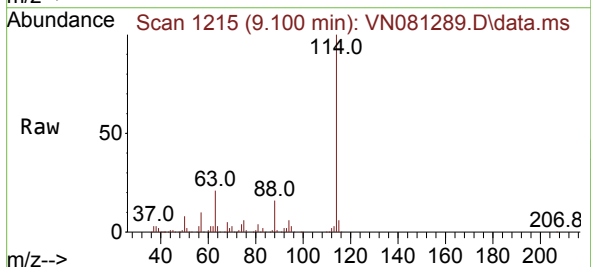
Tgt Ion: 114 Resp: 629563

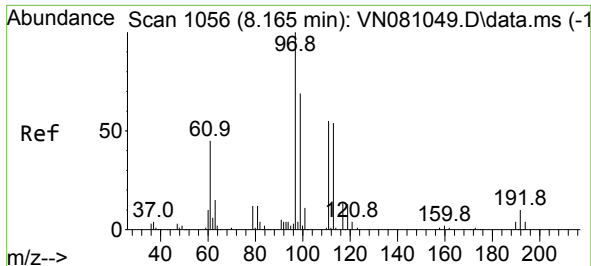
Ion Ratio Lower Upper

114 100

63 21.0 0.0 48.0

88 16.2 0.0 34.8

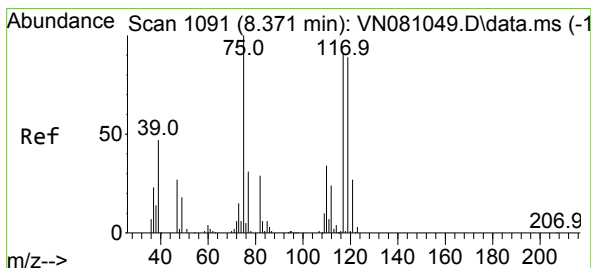
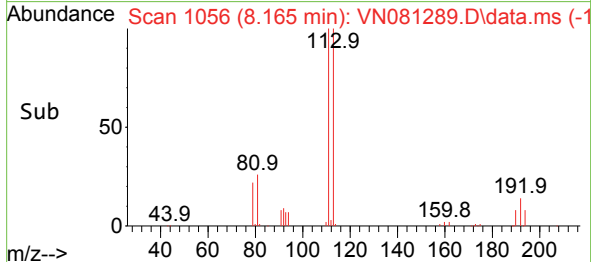
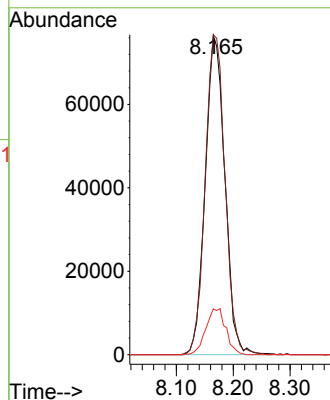
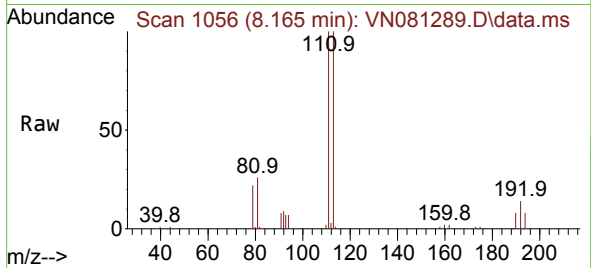




#35
Dibromofluoromethane
Concen: 51.402 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

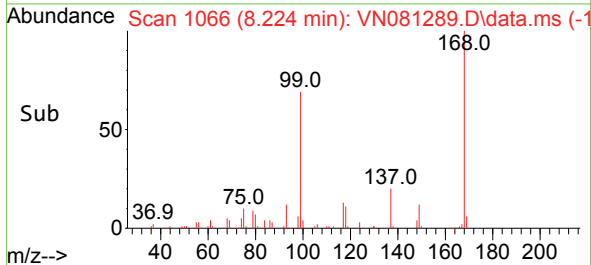
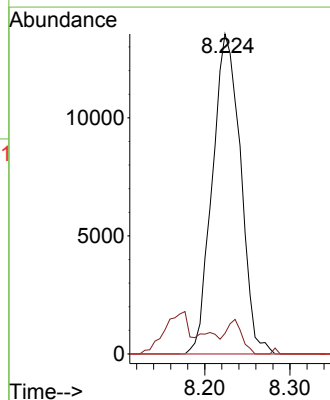
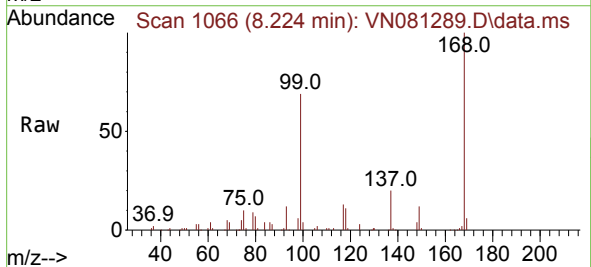
Instrument :
MSVOA_N
ClientSampleId :
TP-16

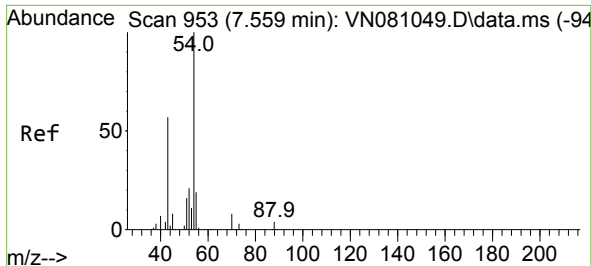
Tgt Ion:113 Resp: 182991
Ion Ratio Lower Upper
113 100
111 101.6 82.2 123.4
192 14.8 12.5 18.7



#36
1,1-Dichloropropene
Concen: 5.108 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Tgt Ion: 75 Resp: 31152
Ion Ratio Lower Upper
75 100
110 6.0 16.0 48.0#
77 0.0 25.8 38.6#





#37

Ethyl Acetate

Concen: 1.157 ug/l

RT: 7.553 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN081289.D

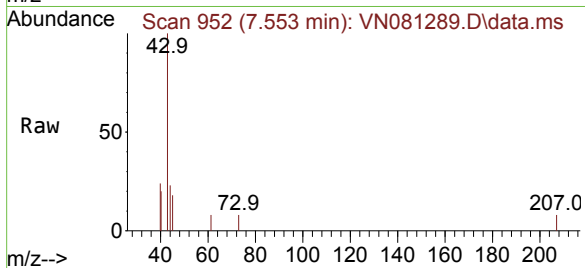
Acq: 01 Mar 2024 16:43

Instrument :

MSVOA_N

ClientSampleId :

TP-16



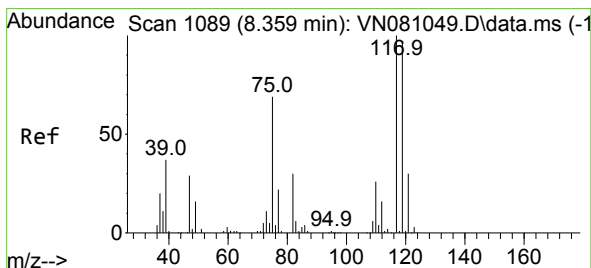
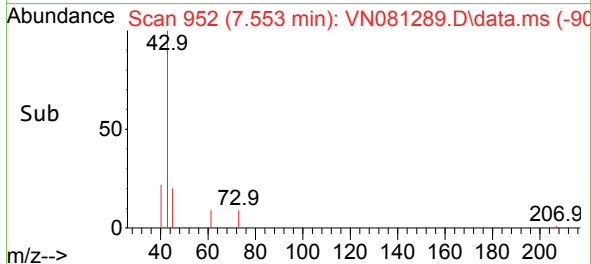
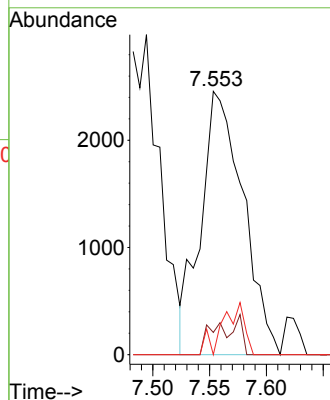
Tgt Ion: 43 Resp: 6366

Ion Ratio Lower Upper

43 100

61 5.2 10.6 15.8#

70 0.0 8.0 12.0#



#38

Carbon Tetrachloride

Concen: 6.520 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN081289.D

Acq: 01 Mar 2024 16:43

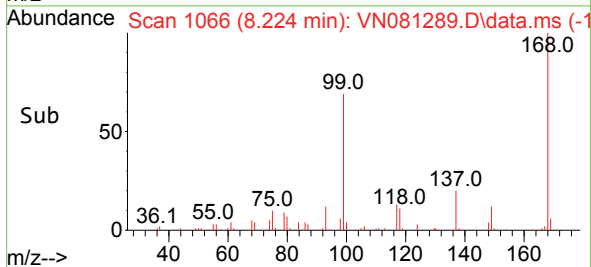
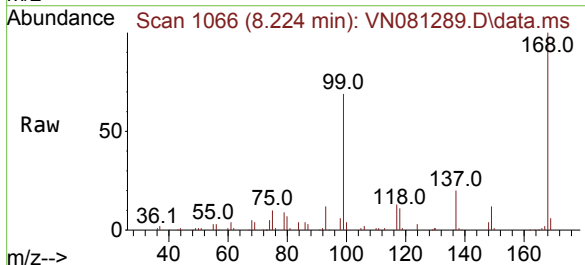
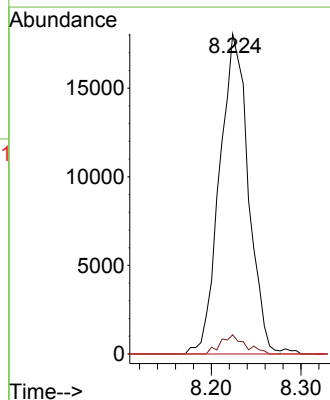
Tgt Ion: 117 Resp: 40232

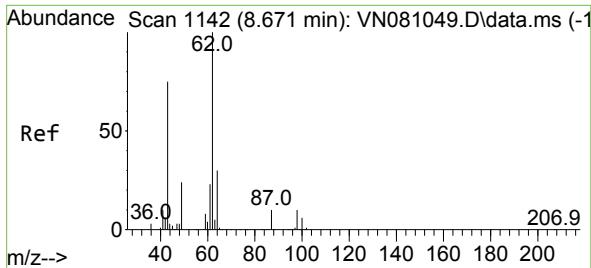
Ion Ratio Lower Upper

117 100

119 6.0 73.4 110.2#

121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.320 ug/l

RT: 8.677 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN081289.D

Acq: 01 Mar 2024 16:43

Instrument :

MSVOA_N

ClientSampleId :

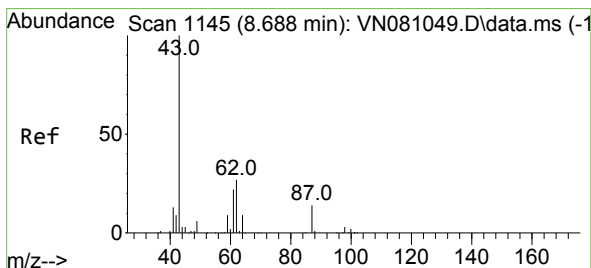
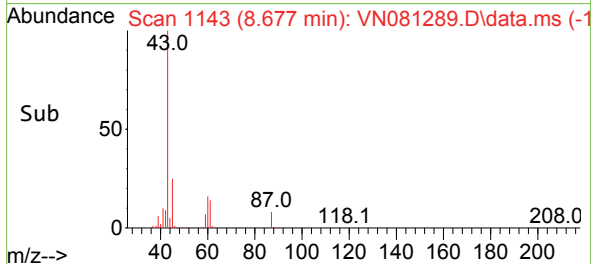
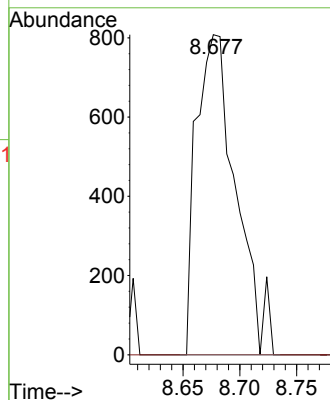
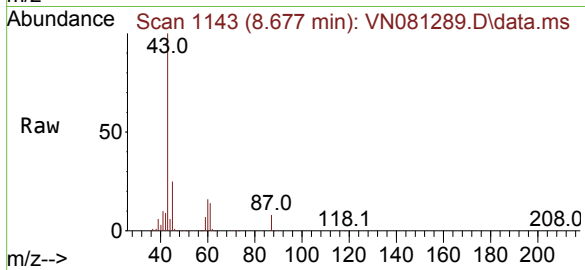
TP-16

Tgt Ion: 62 Resp: 1968

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.0



#43

Isopropyl Acetate

Concen: 40.052 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN081289.D

Acq: 01 Mar 2024 16:43

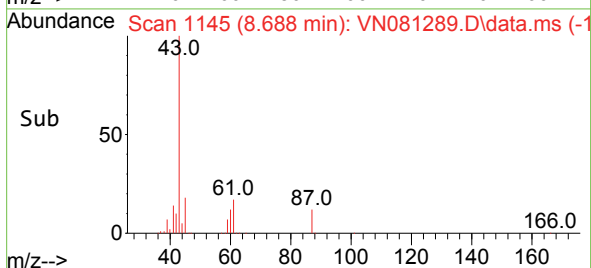
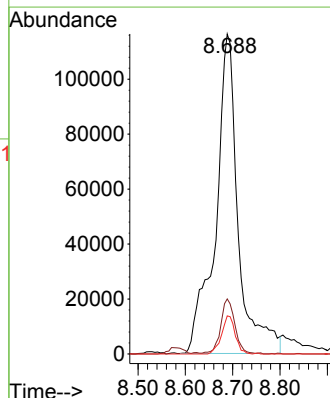
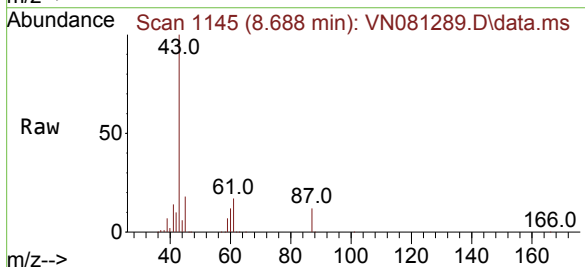
Tgt Ion: 43 Resp: 385579

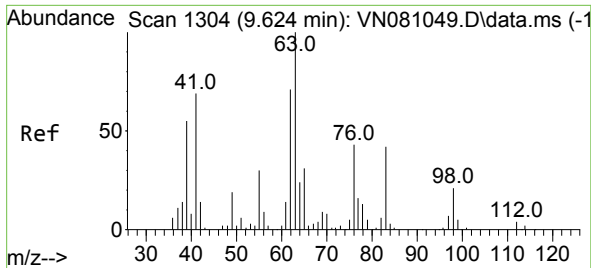
Ion Ratio Lower Upper

43 100

61 10.9 19.9 29.9#

87 7.2 9.0 13.6#

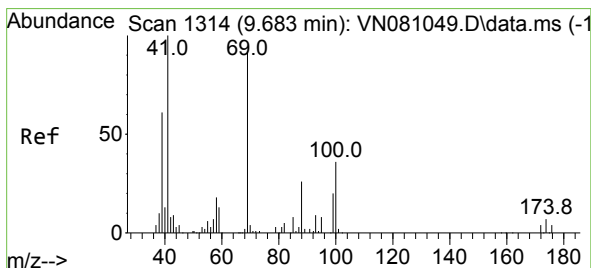
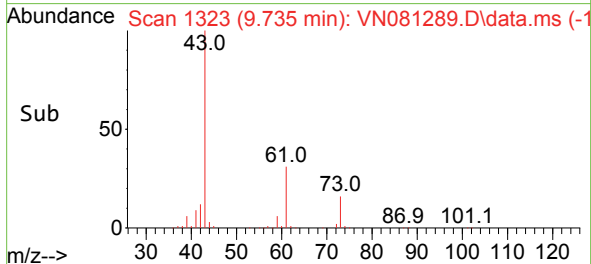
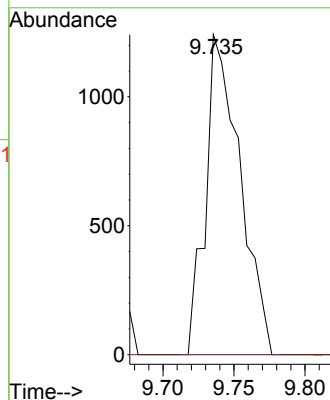
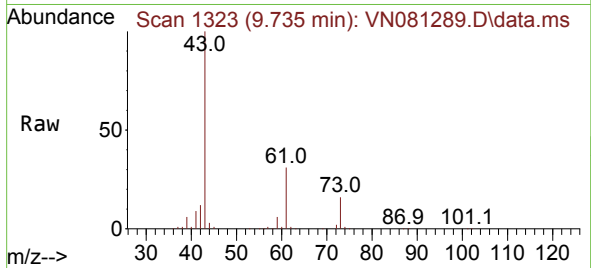




#45
1,2-Dichloropropane
Concen: 0.474 ug/l
RT: 9.735 min Scan# 111
Delta R.T. 0.112 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

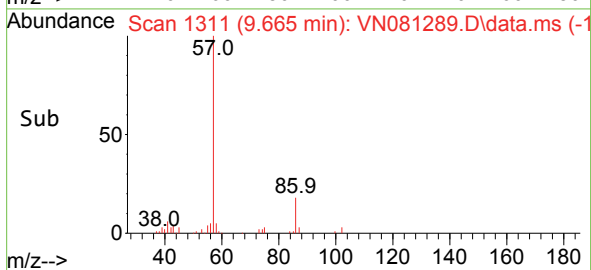
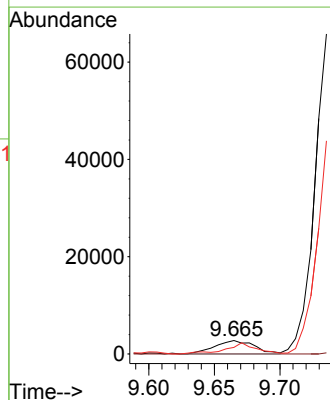
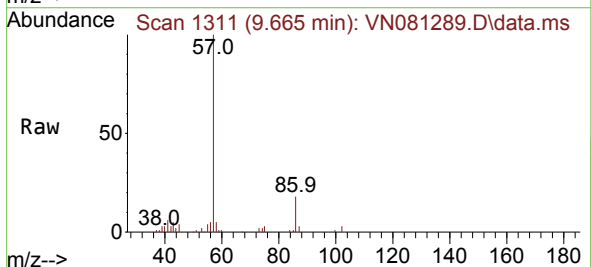
Instrument :
MSVOA_N
ClientSampleId :
TP-16

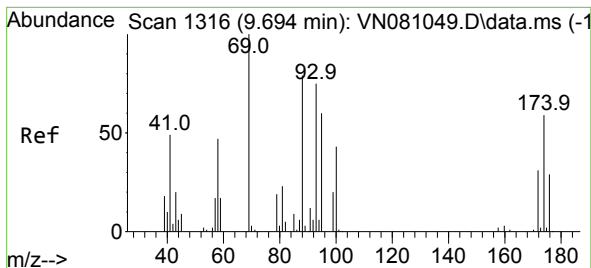
Tgt Ion: 63 Resp: 2091
Ion Ratio Lower Upper
63 100
65 0.0 26.1 39.1#



#48
Methyl methacrylate
Concen: 1.302 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.018 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Tgt Ion: 41 Resp: 5831
Ion Ratio Lower Upper
41 100
69 0.0 62.2 93.2#
39 62.7 47.6 71.4





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.735 min Scan# 1

Delta R.T. 0.041 min

Lab File: VN081289.D

Acq: 01 Mar 2024 16:43

Instrument :

MSVOA_N

ClientSampleId :

TP-16

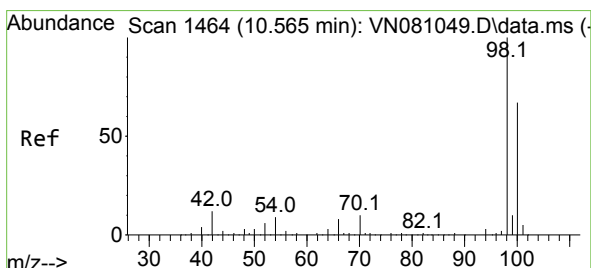
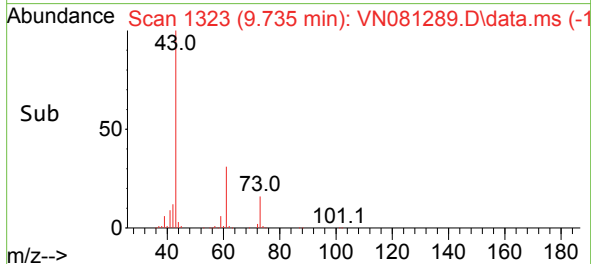
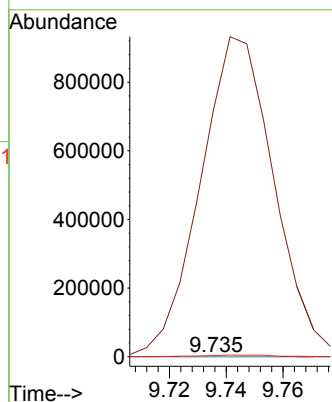
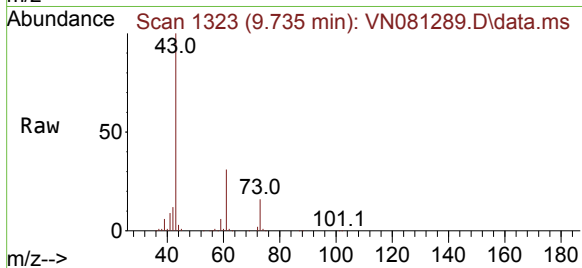
Tgt Ion: 88 Resp: 240

Ion Ratio Lower Upper

88 100

43 701867.1 30.1 45.1#

58 3409.6 63.9 95.9#



#50

Toluene-d8

Concen: 56.674 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN081289.D

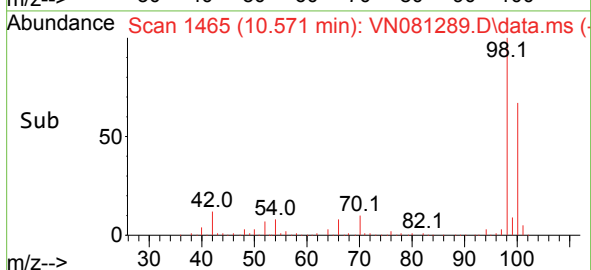
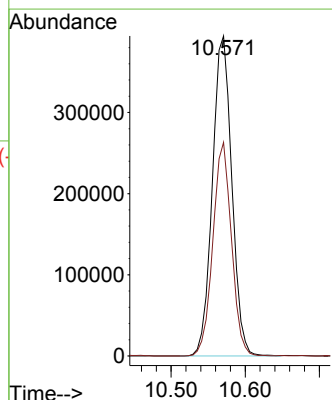
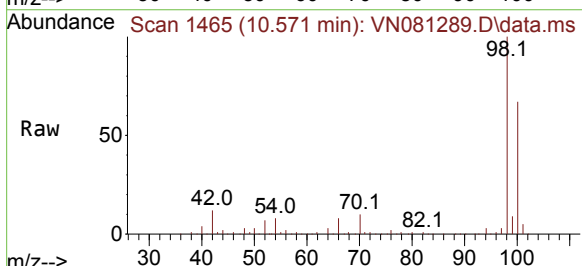
Acq: 01 Mar 2024 16:43

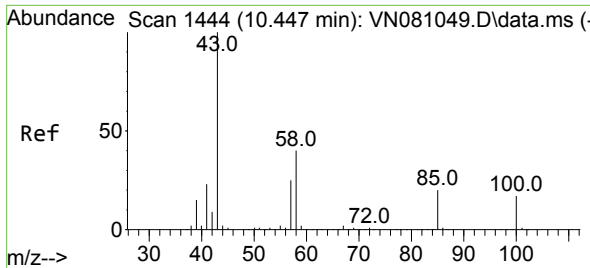
Tgt Ion: 98 Resp: 716593

Ion Ratio Lower Upper

98 100

100 64.0 51.4 77.0

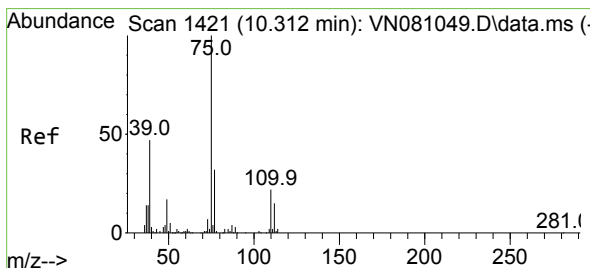
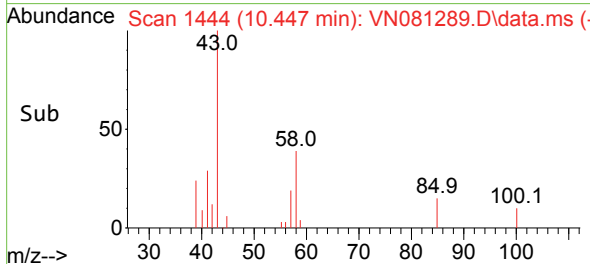
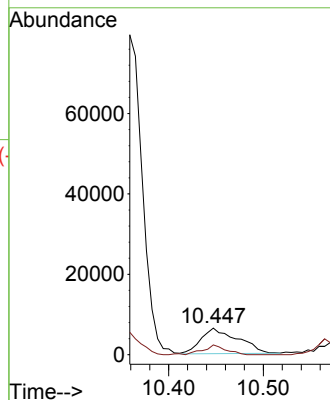
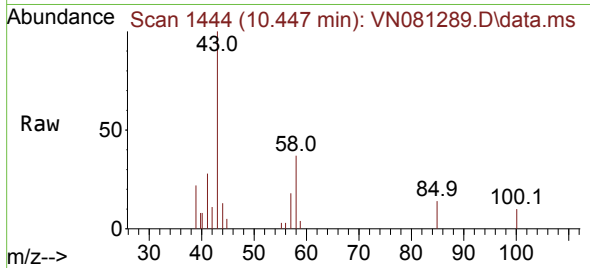




#51
4-Methyl-2-Pentanone
Concen: 3.088 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

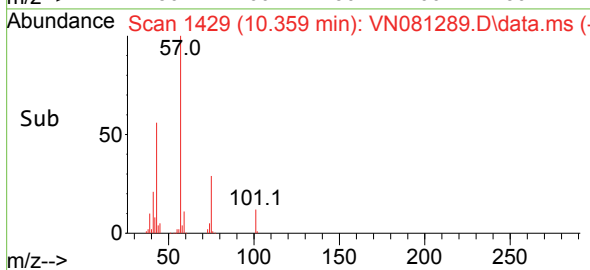
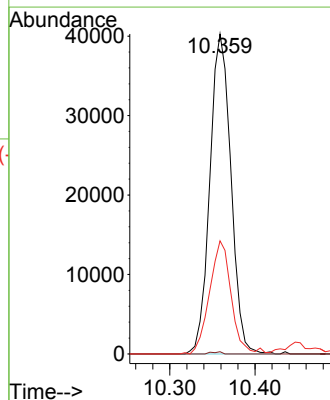
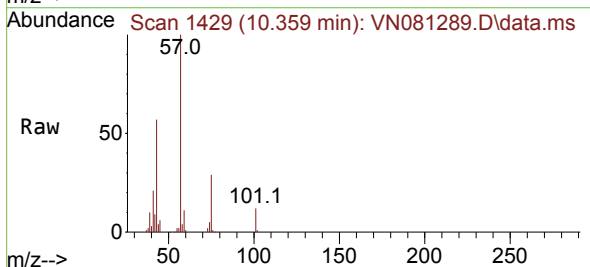
Instrument :
MSVOA_N
ClientSampleId :
TP-16

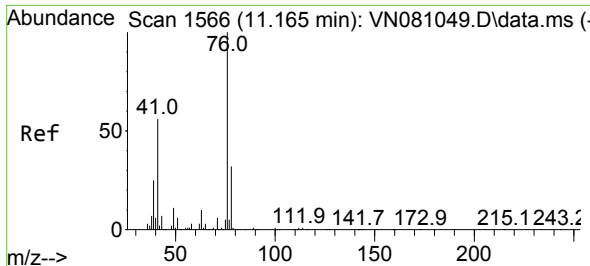
Tgt Ion: 43 Resp: 17099
Ion Ratio Lower Upper
43 100
58 24.1 29.4 44.0#



#54
cis-1,3-Dichloropropene
Concen: 9.449 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Tgt Ion: 75 Resp: 69135
Ion Ratio Lower Upper
75 100
77 0.7 23.3 34.9#
39 35.3 44.6 66.8#





#57

1,3-Dichloropropane

Concen: 1.140 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.035 min

Lab File: VN081289.D

Acq: 01 Mar 2024 16:43

Instrument :

MSVOA_N

ClientSampleId :

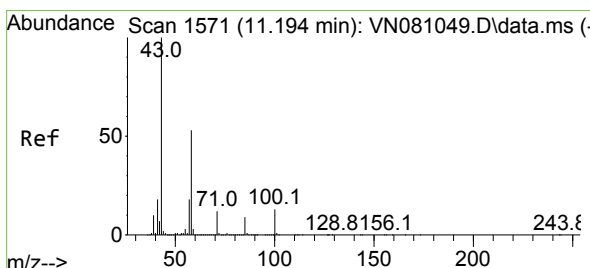
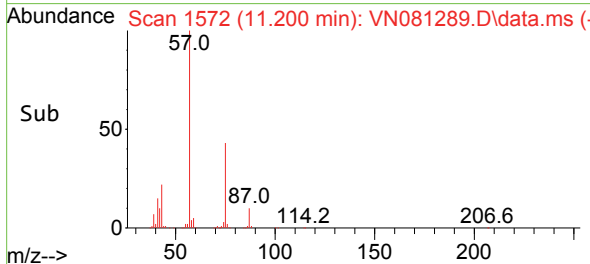
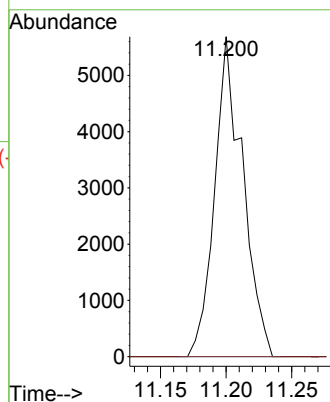
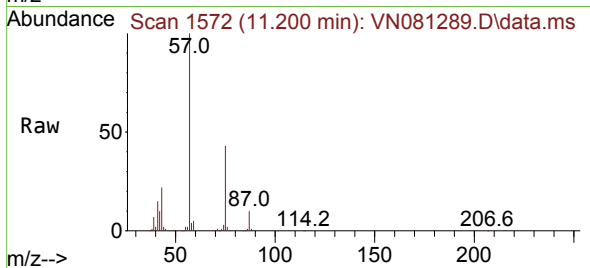
TP-16

Tgt Ion: 76 Resp: 8475

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 36.497 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN081289.D

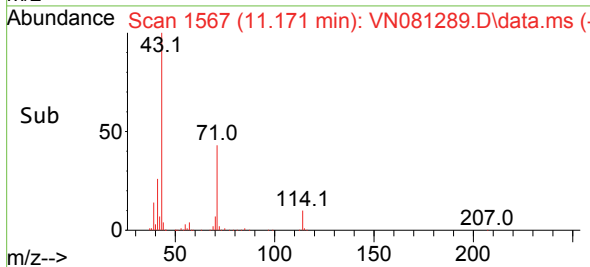
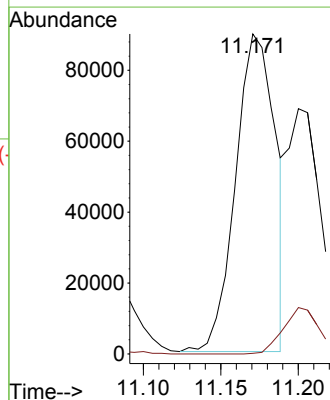
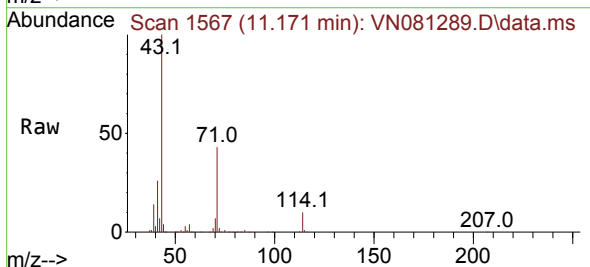
Acq: 01 Mar 2024 16:43

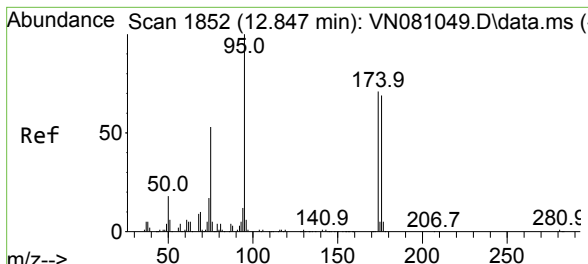
Tgt Ion: 43 Resp: 160237

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.8#

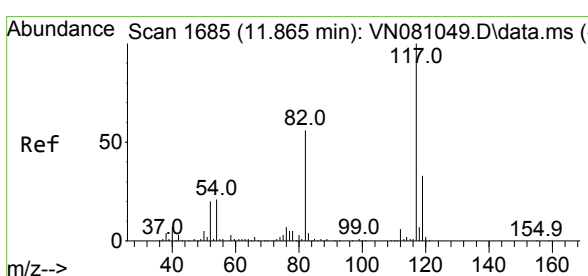
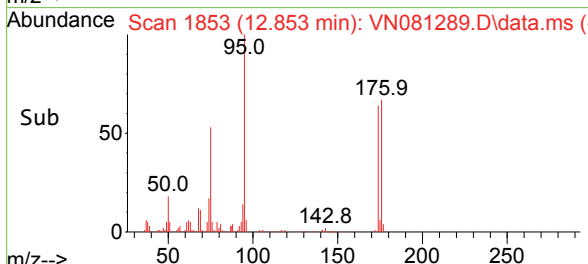
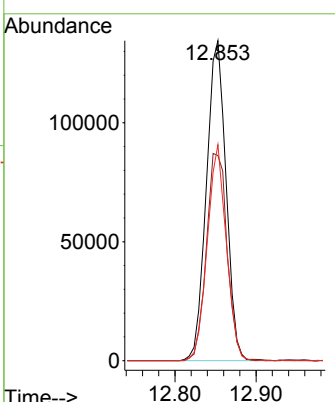
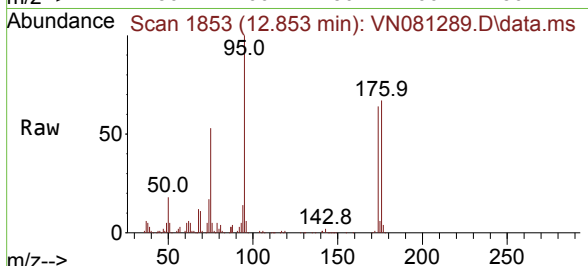




#62
4-Bromofluorobenzene
Concen: 47.575 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

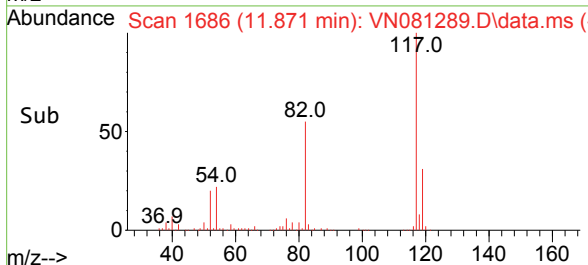
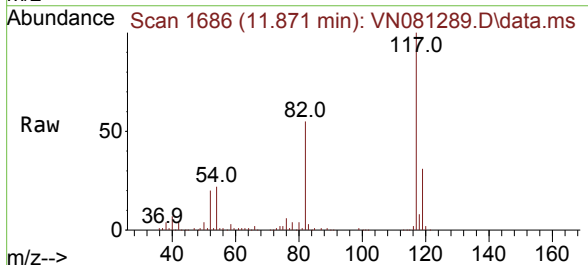
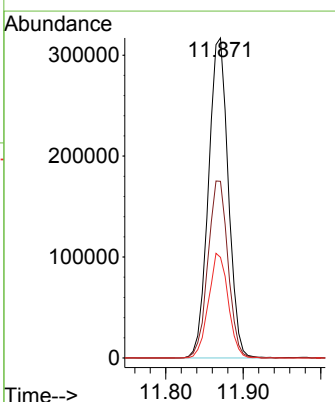
Instrument :
MSVOA_N
ClientSampleId :
TP-16

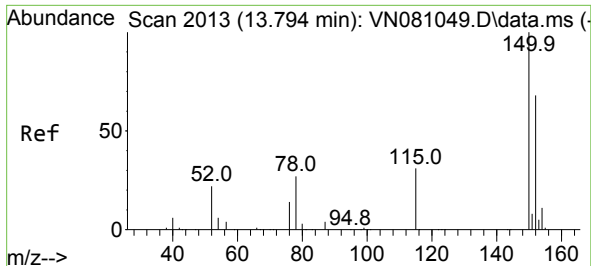
Tgt Ion:	95	Resp:	226034
Ion	Ratio	Lower	Upper
95	100		
174	68.4	0.0	120.4
176	65.4	0.0	121.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Tgt Ion:	117	Resp:	561944
Ion	Ratio	Lower	Upper
117	100		
82	55.2	52.7	79.1
119	31.4	25.3	37.9

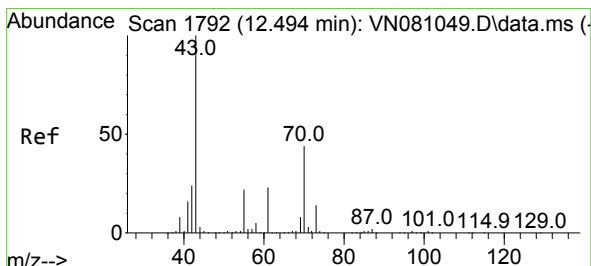
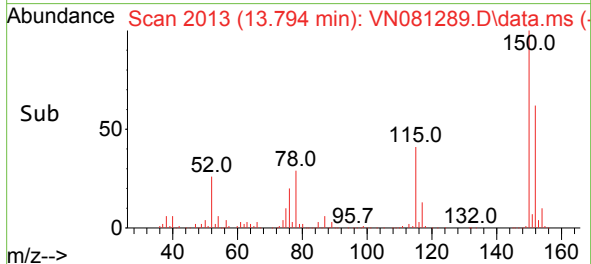
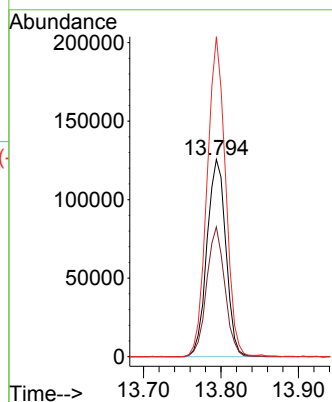
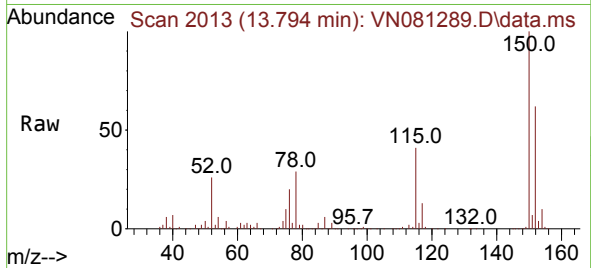




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

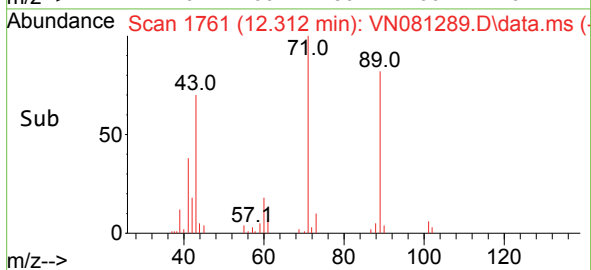
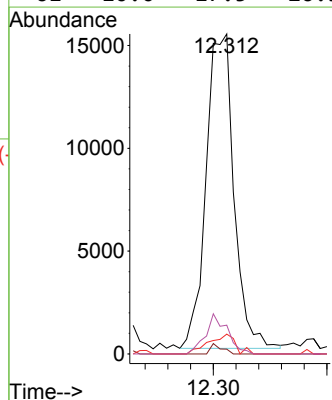
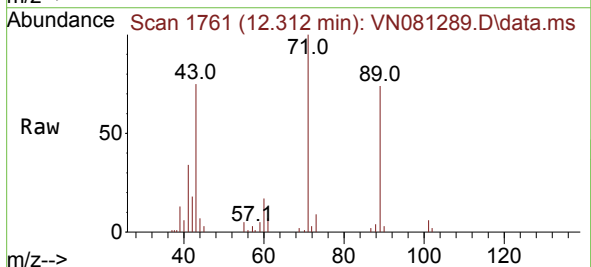
Instrument :
MSVOA_N
ClientSampleId :
TP-16

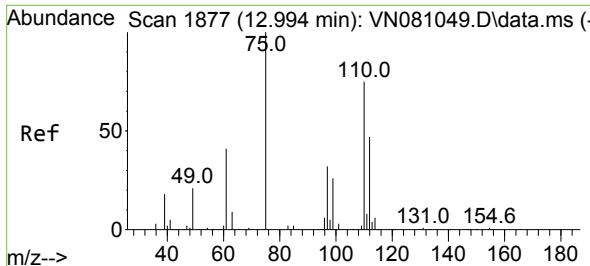
Tgt Ion:152 Resp: 213217
Ion Ratio Lower Upper
152 100
115 63.4 32.3 96.8
150 158.3 0.0 339.8



#74
N-ethyl acetate
Concen: 3.298 ug/l
RT: 12.312 min Scan# 1761
Delta R.T. -0.182 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Tgt Ion: 43 Resp: 26004
Ion Ratio Lower Upper
43 100
70 1.3 30.1 45.1#
55 6.1 17.0 25.4#
61 10.0 17.5 26.3#

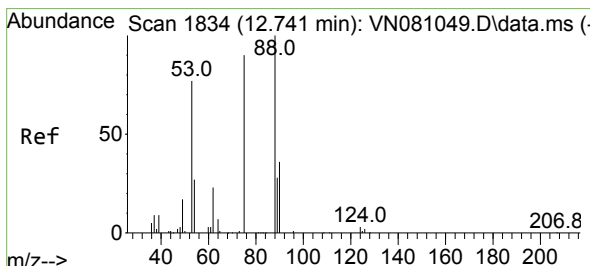
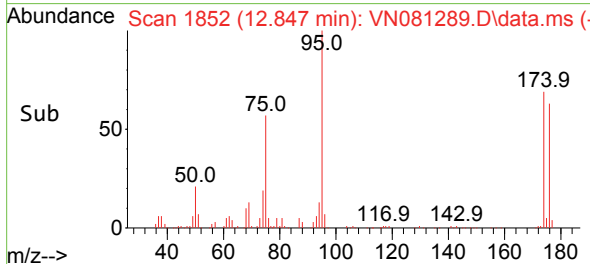
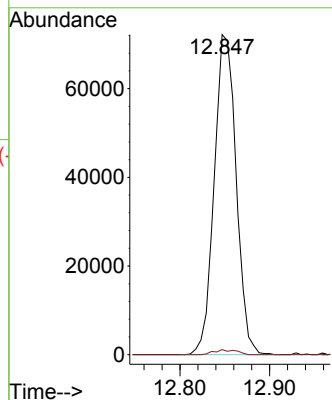
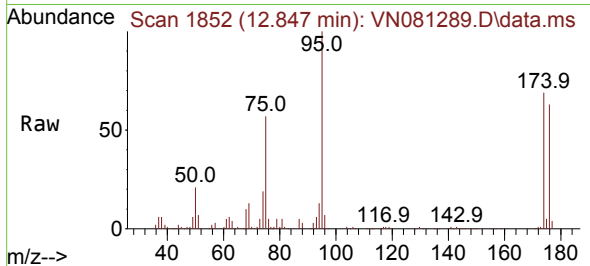




#76
1,2,3-Trichloropropane
Concen: 25.305 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Instrument :
MSVOA_N
ClientSampleId :
TP-16

Tgt Ion: 75 Resp: 122588
Ion Ratio Lower Upper
75 100
77 1.6 91.0 272.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 65.133 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.106 min
Lab File: VN081289.D
Acq: 01 Mar 2024 16:43

Tgt Ion: 75 Resp: 122588
Ion Ratio Lower Upper
75 100
53 0.0 71.4 107.2#
89 0.0 33.4 50.0#

