

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060523\
 Data File : VN078058.D
 Acq On : 05 Jun 2023 20:44
 Operator : JC\MD
 Sample : 03029-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6

Quant Time: Jun 06 02:08:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

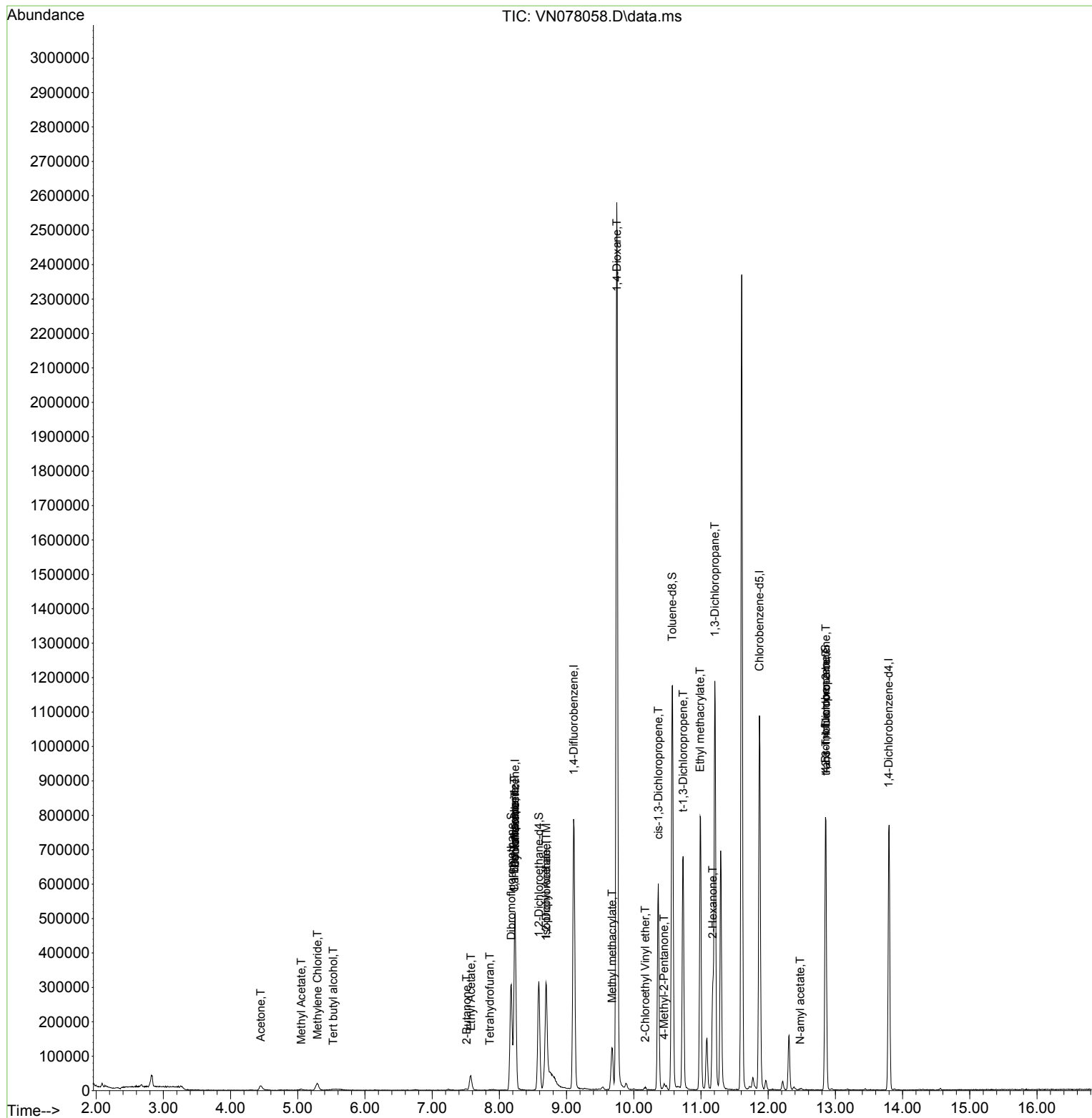
Internal Standards						
1) Pentafluorobenzene	8.235	168	371827	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	705359	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	652579	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	208112	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	260651	46.850	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.700%
35) Dibromofluoromethane	8.177	113	226464	49.236	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.480%
50) Toluene-d8	10.571	98	883336	49.895	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.780%
62) 4-Bromofluorobenzene	12.853	95	289554	46.309	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	92.620%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	981	Below Cal		90
11) Tert butyl alcohol	5.530	59	356	0.464 ug/l #		72
13) Acrolein	4.200	56	84	Below Cal #		16
16) Acetone	4.447	43	23906	13.658 ug/l #		82
18) Methyl Acetate	5.053	43	3936	0.536 ug/l #		85
20) Methylene Chloride	5.294	84	16391	1.689 ug/l #		87
25) 2-Butanone	7.512	43	6854	2.503 ug/l #		74
29) Tetrahydrofuran	7.859	42	840	0.469 ug/l #		44
31) Cyclohexane	8.235	56	9034	1.195 ug/l #		37
36) 1,1-Dichloropropene	8.224	75	31022	4.611 ug/l #		49
37) Ethyl Acetate	7.577	43	62435	10.412 ug/l		97
38) Carbon Tetrachloride	8.224	117	41091	6.049 ug/l #		16
42) 1,2-Dichloroethane	8.700	62	2161	0.300 ug/l #		73
43) Isopropyl Acetate	8.694	43	397489	40.583 ug/l #		76
48) Methyl methacrylate	9.677	41	7671	1.652 ug/l #		32
49) 1,4-Dioxane	9.747	88	479	5.461 ug/l #		1
51) 4-Methyl-2-Pentanone	10.453	43	11630	1.998 ug/l #		54
53) t-1,3-Dichloropropene	10.735	75	1928	0.262 ug/l #		45
54) cis-1,3-Dichloropropene	10.365	75	108953	13.458 ug/l #		66
56) Ethyl methacrylate	10.988	69	3100	0.418 ug/l #		1
57) 1,3-Dichloropropane	11.206	76	13397	1.592 ug/l #		42
58) 2-Chloroethyl Vinyl ether	10.171	63	3719	1.019 ug/l #		86
59) 2-Hexanone	11.176	43	234013	54.343 ug/l #		19
74) N-amyl acetate	12.476	43	1960	0.296 ug/l #		36
76) 1,2,3-Trichloropropane	12.859	75	152499	29.260 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.859	75	152499	93.530 ug/l #		15

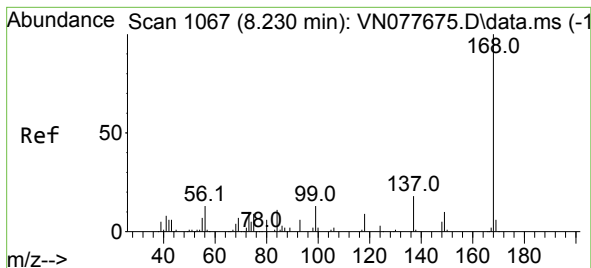
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 16 04:07:42 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN078058.D

Acq: 05 Jun 2023 20:44

Instrument :

MSVOA_N

ClientSampleId :

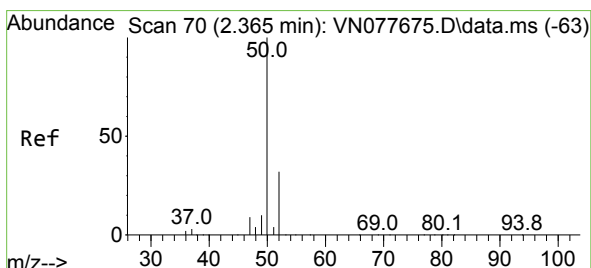
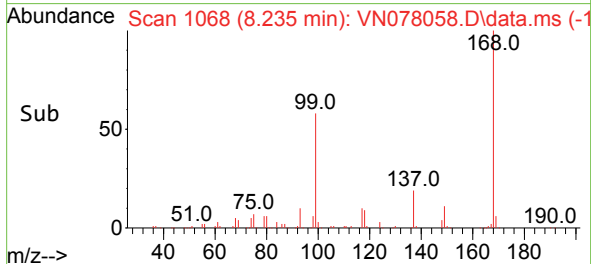
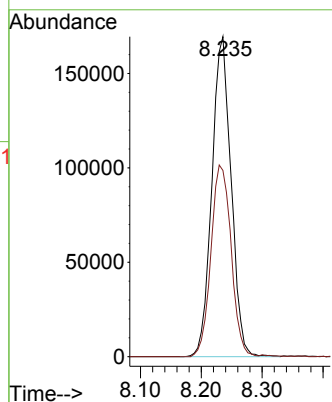
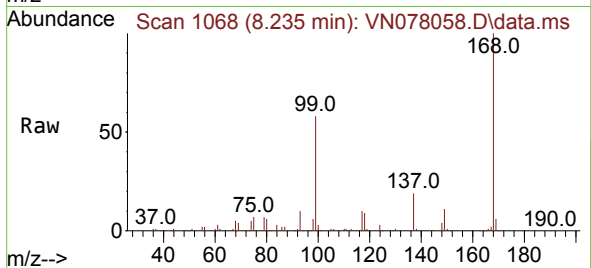
TP-6

Tgt Ion:168 Resp: 371827

Ion Ratio Lower Upper

168 100

99 58.2 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.377 min Scan# 72

Delta R.T. 0.012 min

Lab File: VN078058.D

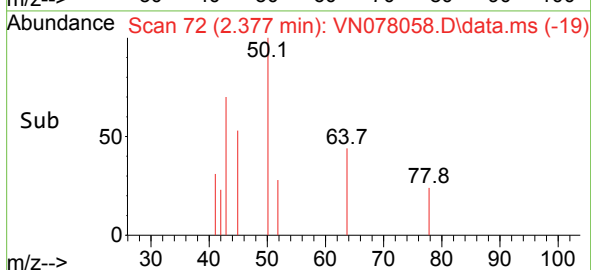
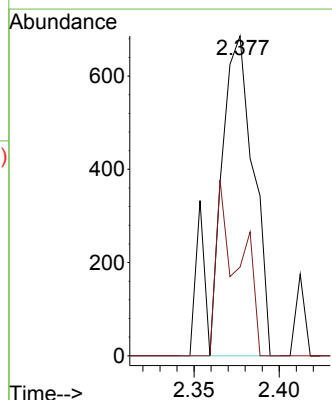
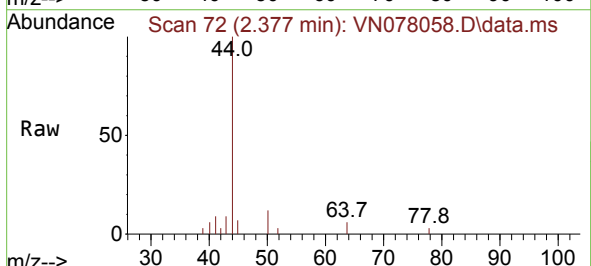
Acq: 05 Jun 2023 20:44

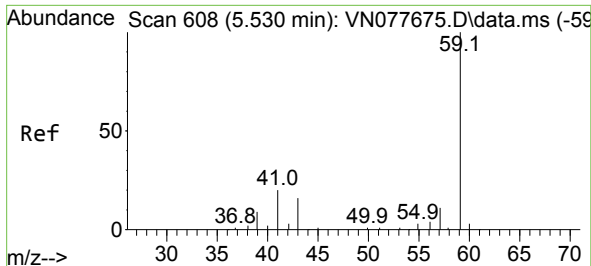
Tgt Ion: 50 Resp: 981

Ion Ratio Lower Upper

50 100

52 27.7 26.5 39.7

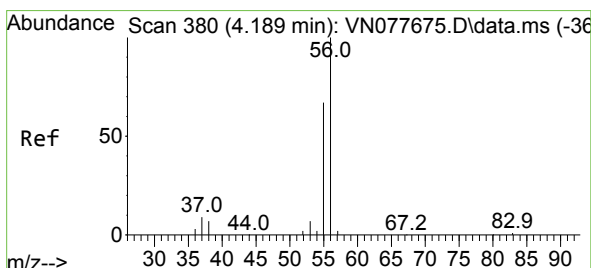
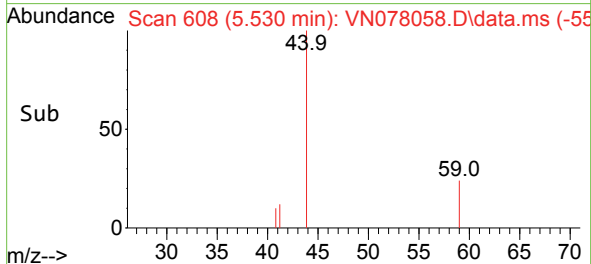
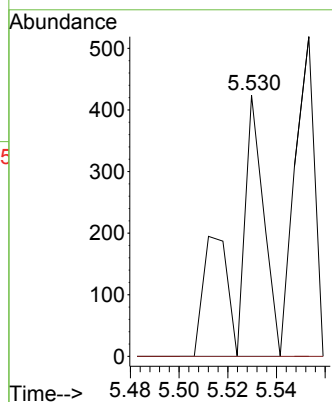
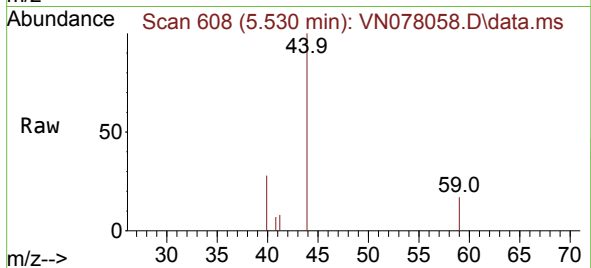




#11
Tert butyl alcohol
Concen: 0.464 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

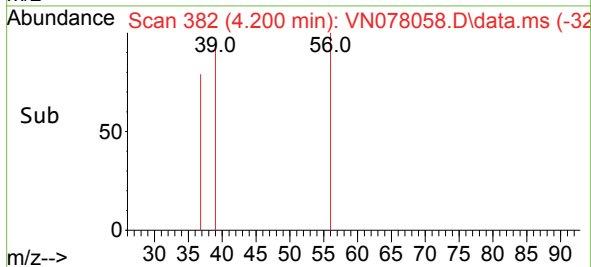
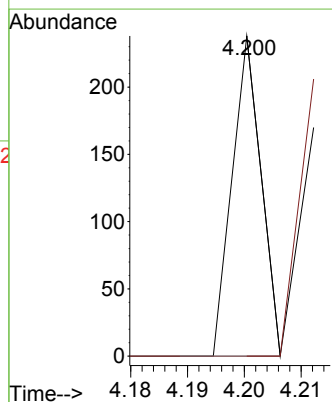
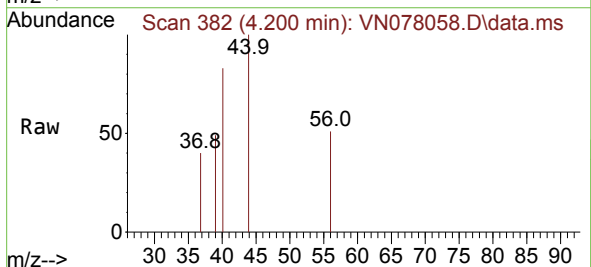
Instrument :
MSVOA_N
ClientSampleId :
TP-6

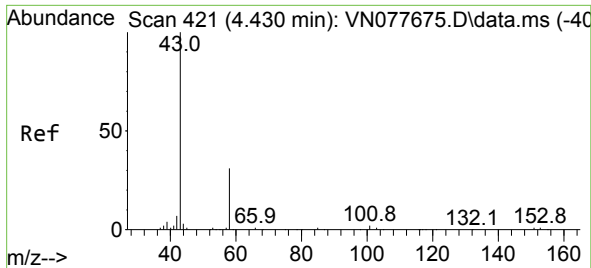
Tgt Ion: 59 Resp: 356
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 4.200 min Scan# 382
Delta R.T. 0.011 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

Tgt Ion: 56 Resp: 84
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

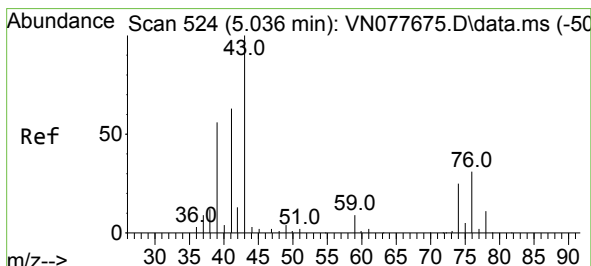
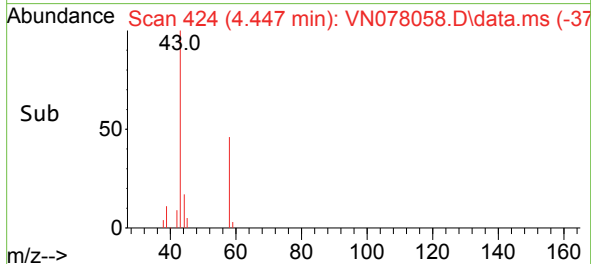
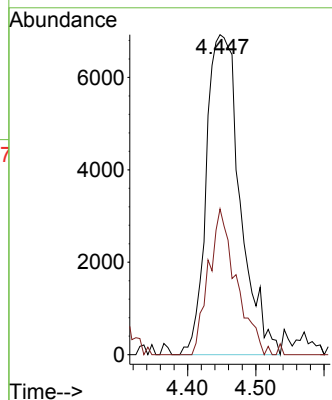
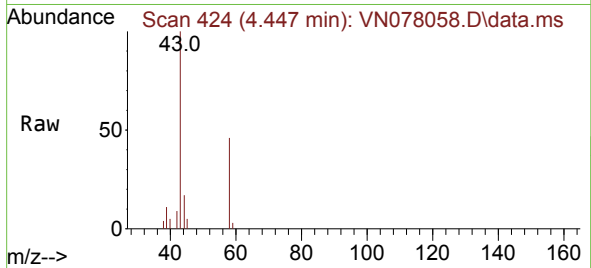




#16
Acetone
Concen: 13.658 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

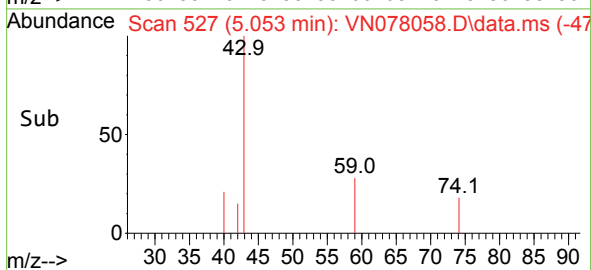
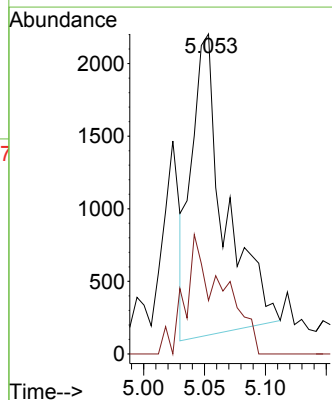
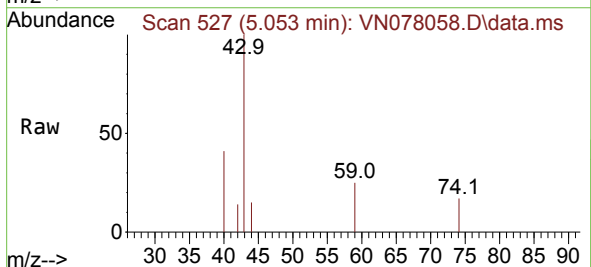
Instrument :
MSVOA_N
ClientSampleId :
TP-6

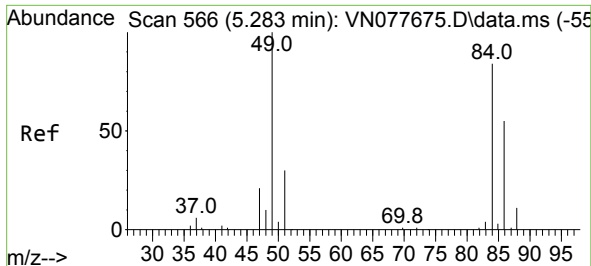
Tgt Ion: 43 Resp: 23906
Ion Ratio Lower Upper
43 100
58 45.6 28.0 42.0#



#18
Methyl Acetate
Concen: 0.536 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.017 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

Tgt Ion: 43 Resp: 3936
Ion Ratio Lower Upper
43 100
74 24.2 26.2 39.4#

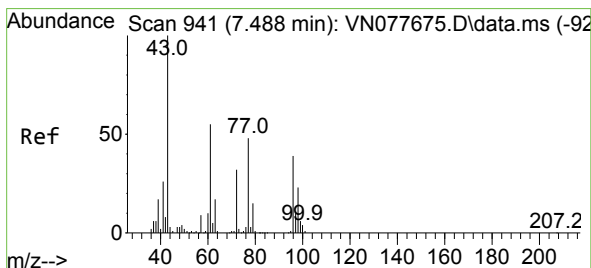
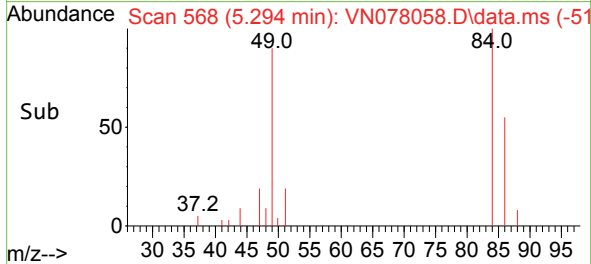
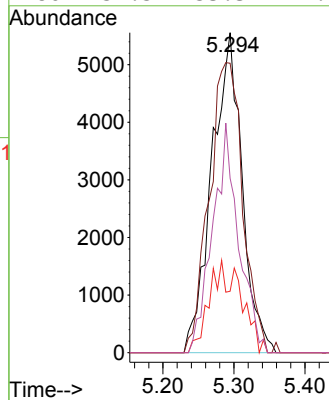
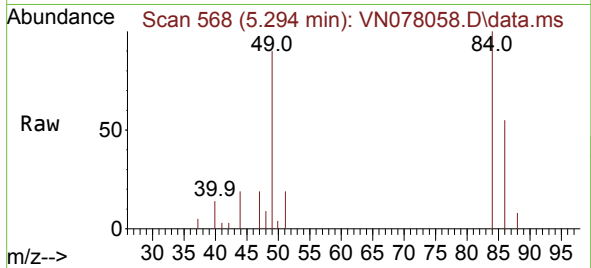




#20
Methylene Chloride
Concen: 1.689 ug/l
RT: 5.294 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

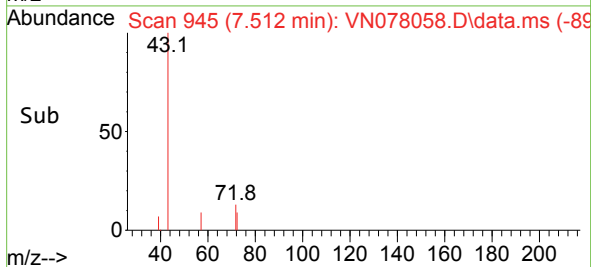
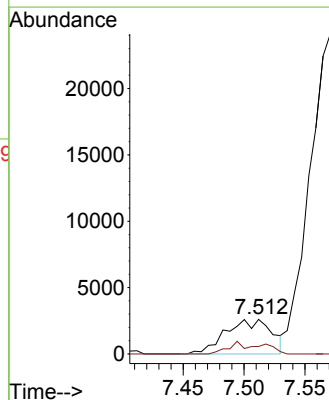
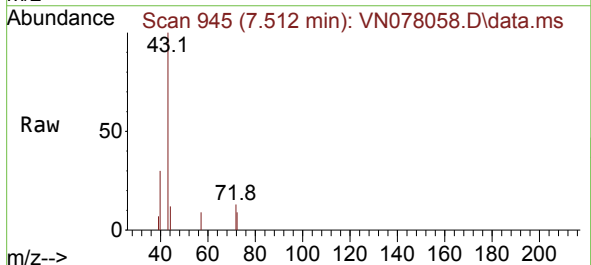
Instrument :
MSVOA_N
ClientSampleId :
TP-6

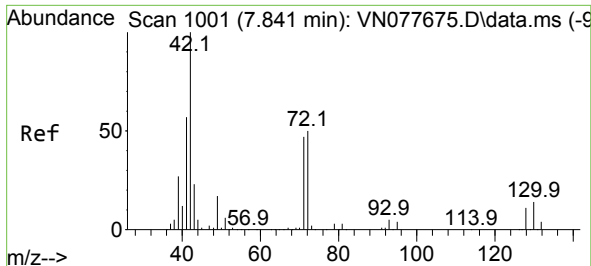
Tgt Ion: 84	Resp: 16391
Ion Ratio	Lower Upper
84 100	
49 90.5	79.7 119.5
51 19.2	25.2 37.8#
86 54.5	53.3 79.9



#25
2-Butanone
Concen: 2.503 ug/l
RT: 7.512 min Scan# 945
Delta R.T. 0.024 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

Tgt Ion: 43	Resp: 6854
Ion Ratio	Lower Upper
43 100	
72 21.8	30.2 45.2#





#29

Tetrahydrofuran

Concen: 0.469 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.018 min

Lab File: VN078058.D

Acq: 05 Jun 2023 20:44

Instrument :

MSVOA_N

ClientSampleId :

TP-6

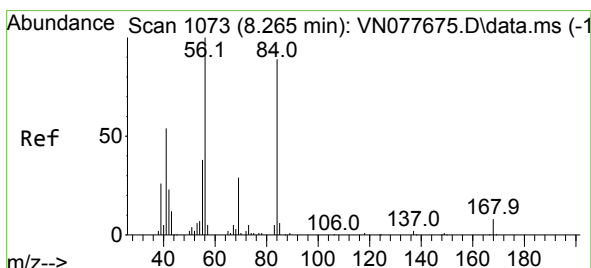
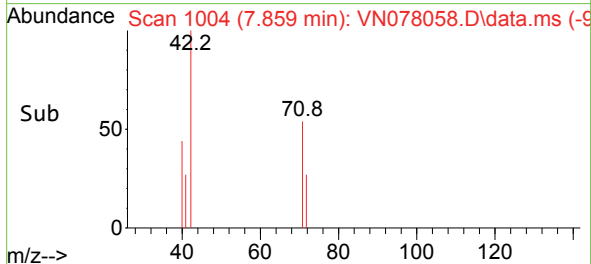
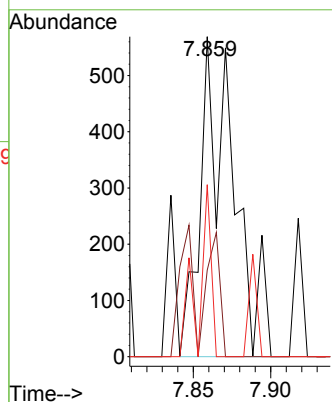
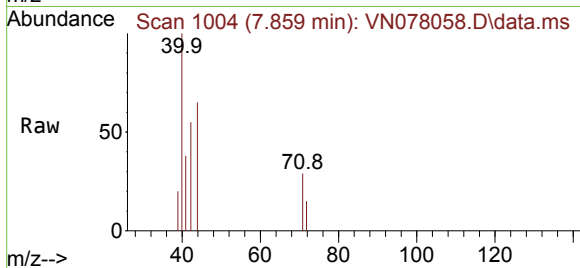
Tgt Ion: 42 Resp: 840

Ion Ratio Lower Upper

42 100

72 15.7 49.8 74.6#

71 20.2 47.4 71.2#



#31

Cyclohexane

Concen: 1.195 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.030 min

Lab File: VN078058.D

Acq: 05 Jun 2023 20:44

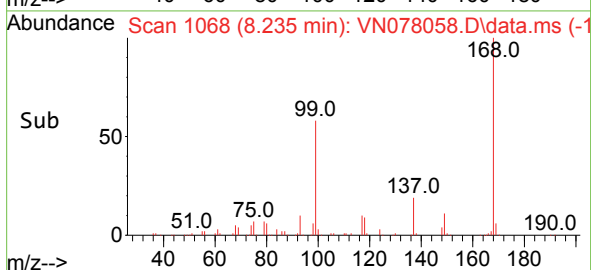
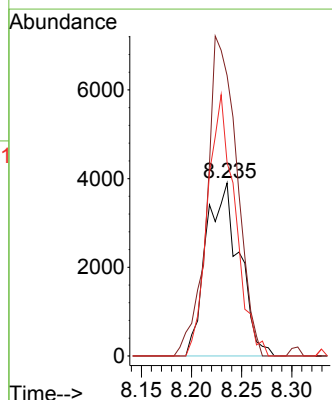
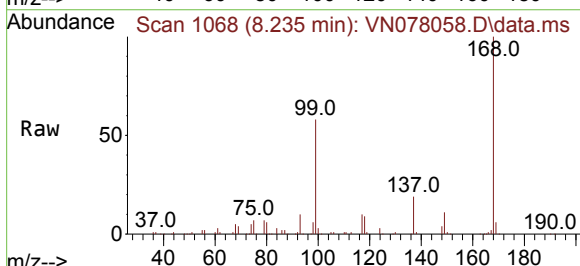
Tgt Ion: 56 Resp: 9034

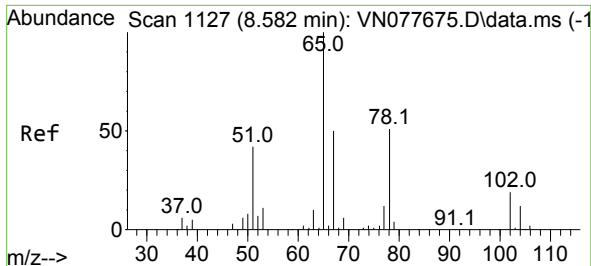
Ion Ratio Lower Upper

56 100

69 162.1 26.8 40.2#

84 111.7 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 46.850 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078058.D

Acq: 05 Jun 2023 20:44

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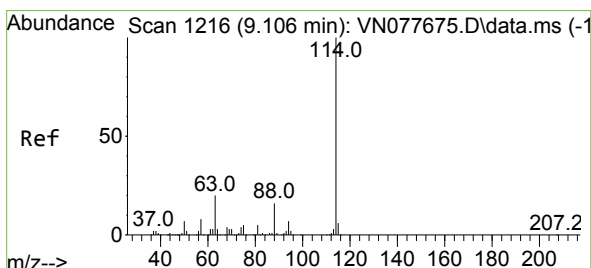
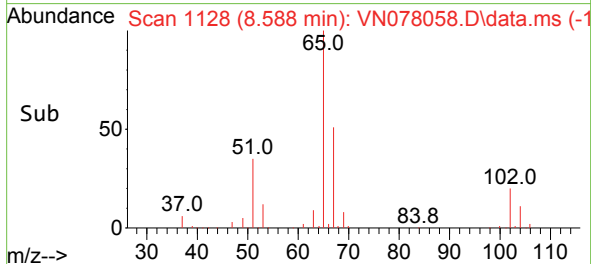
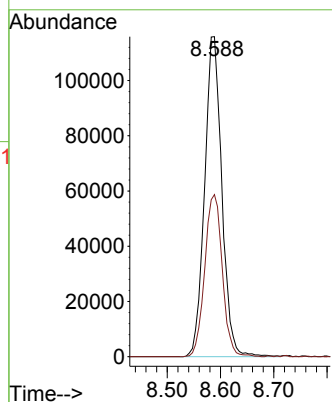
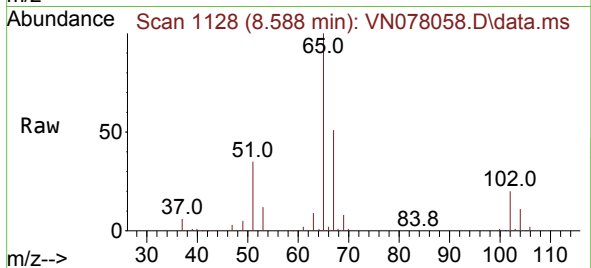
TP-6

Tgt Ion: 65 Resp: 260651

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN078058.D

Acq: 05 Jun 2023 20:44

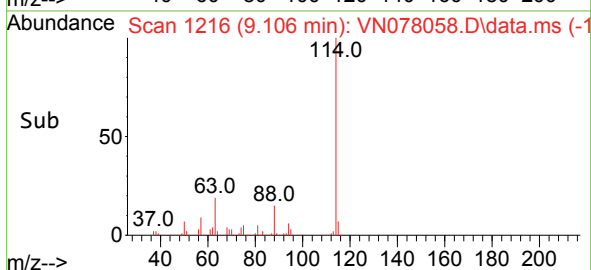
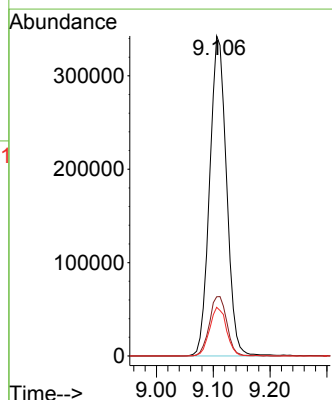
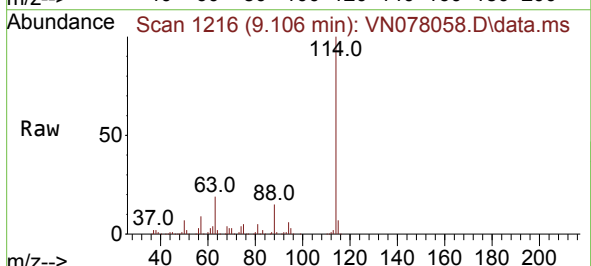
Tgt Ion: 114 Resp: 705359

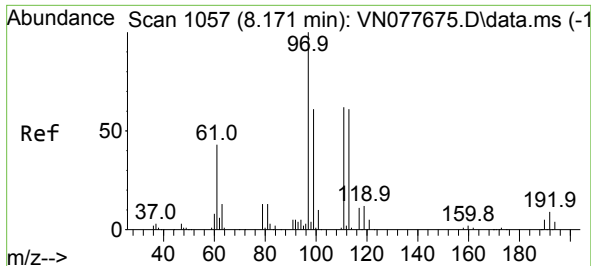
Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.4

88 15.2 0.0 30.6

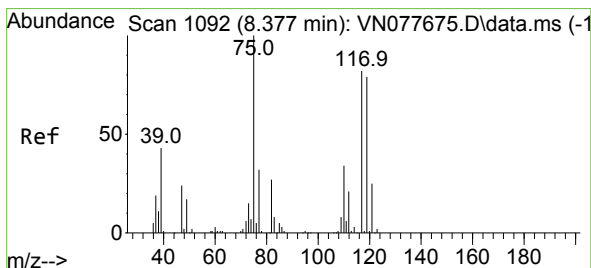
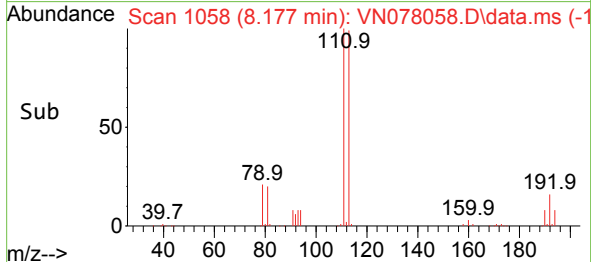
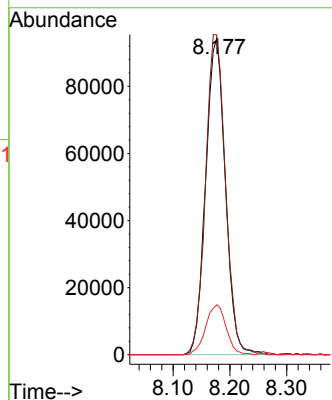
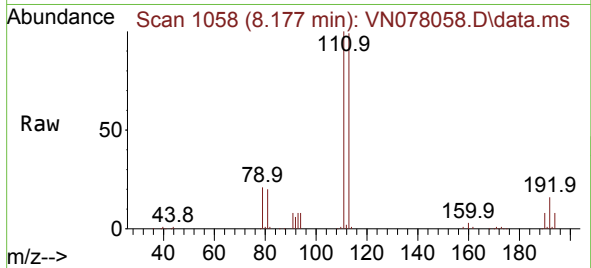




#35
Dibromofluoromethane
Concen: 49.236 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

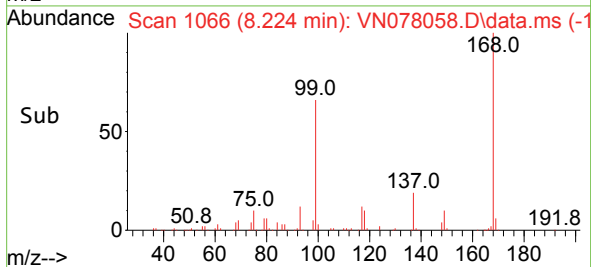
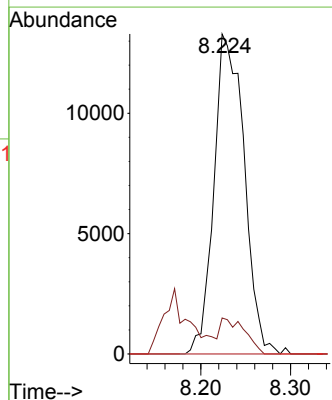
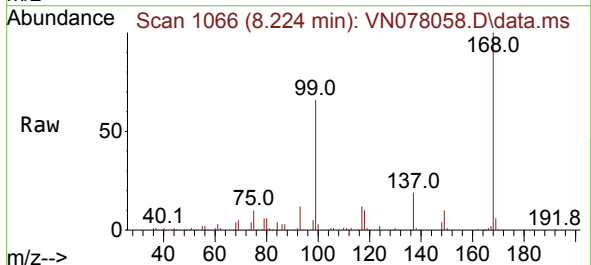
Instrument :
MSVOA_N
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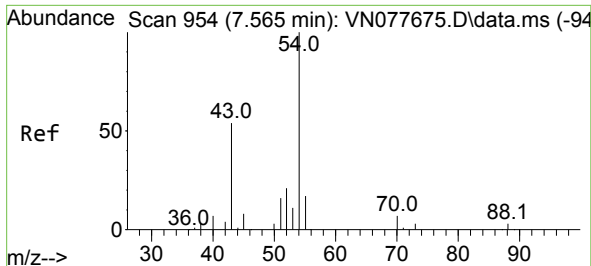
Tgt Ion:113 Resp: 226464
Ion Ratio Lower Upper
113 100
111 101.9 82.6 123.8
192 16.4 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.611 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

Tgt Ion: 75 Resp: 31022
Ion Ratio Lower Upper
75 100
110 9.7 19.1 57.3#
77 0.0 25.0 37.4#

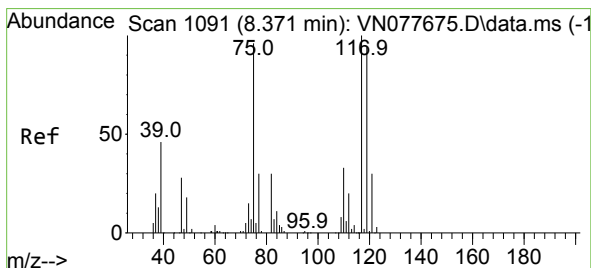
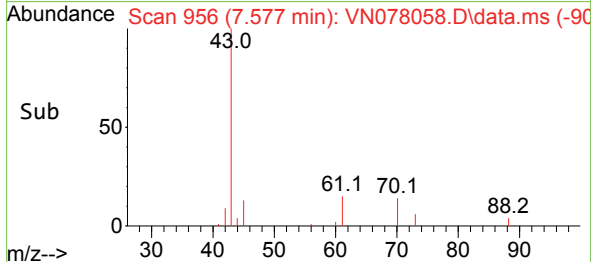
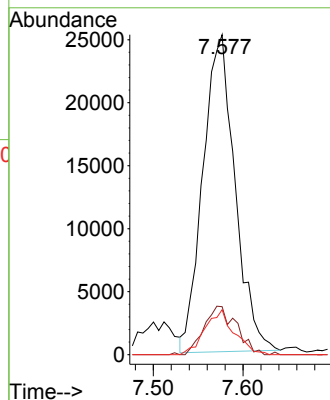
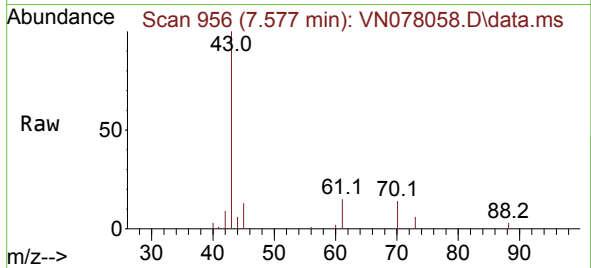




#37
Ethyl Acetate
Concen: 10.412 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

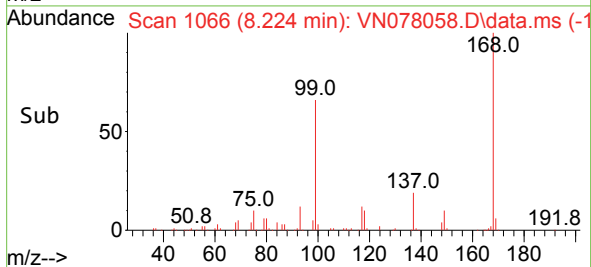
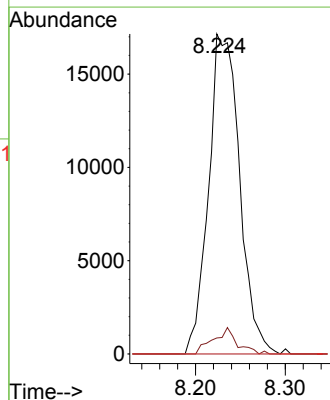
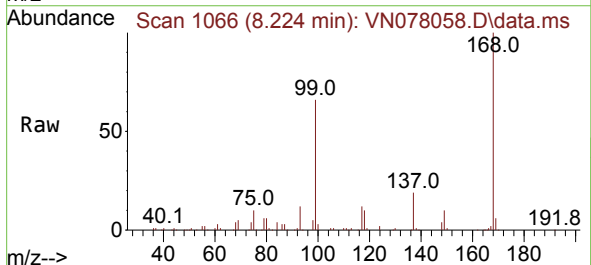
Instrument :
MSVOA_N
ClientSampleId :
TP-6

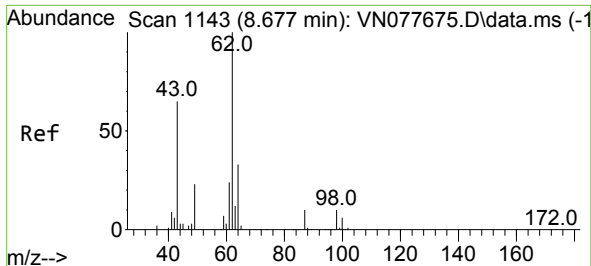
Tgt Ion: 43 Resp: 62435
Ion Ratio Lower Upper
43 100
61 15.4 13.2 19.8
70 12.9 11.3 16.9



#38
Carbon Tetrachloride
Concen: 6.049 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

Tgt Ion: 117 Resp: 41091
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.300 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.023 min

Lab File: VN078058.D

Acq: 05 Jun 2023 20:44

Instrument :

MSVOA_N

ClientSampleId :

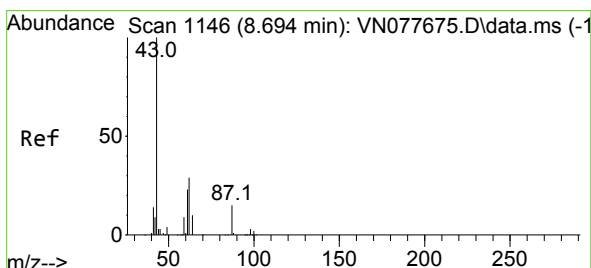
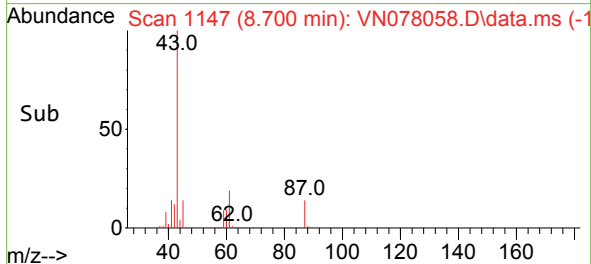
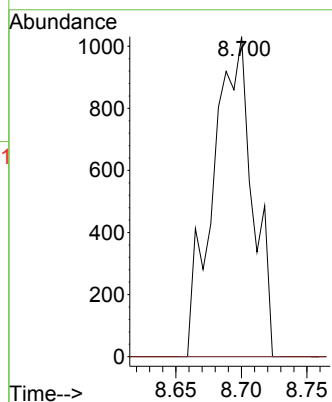
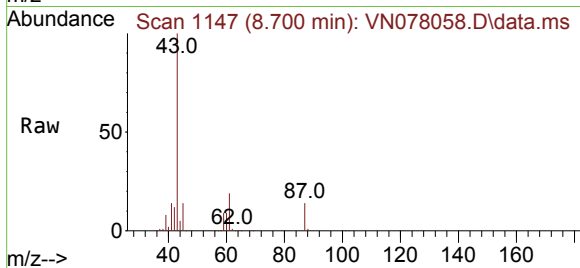
TP-6

Tgt Ion: 62 Resp: 2161

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 40.583 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078058.D

Acq: 05 Jun 2023 20:44

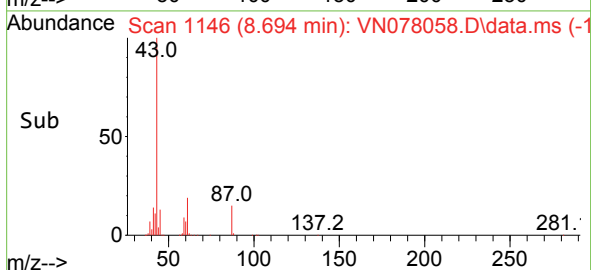
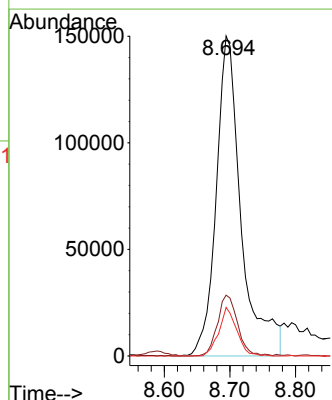
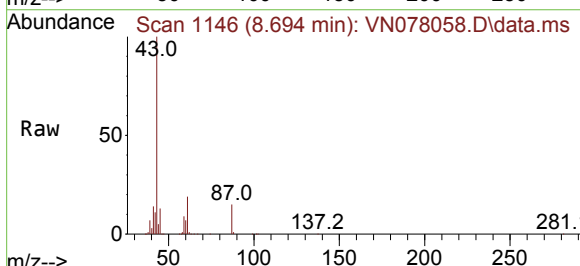
Tgt Ion: 43 Resp: 397489

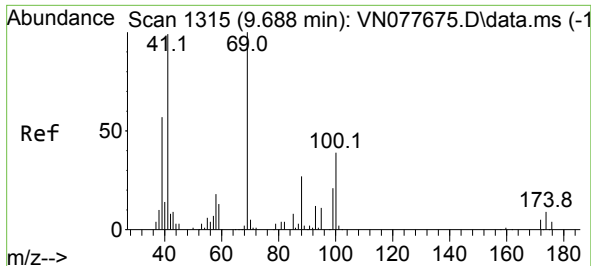
Ion Ratio Lower Upper

43 100

61 15.3 24.7 37.1#

87 10.9 14.6 21.8#

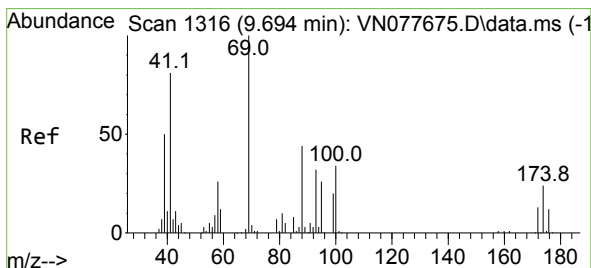
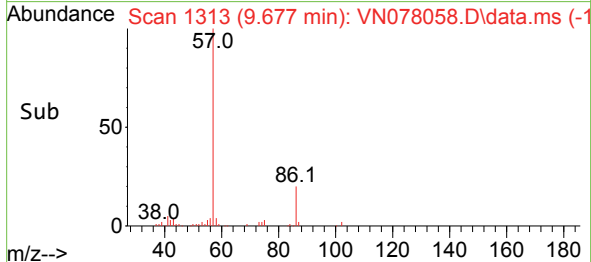
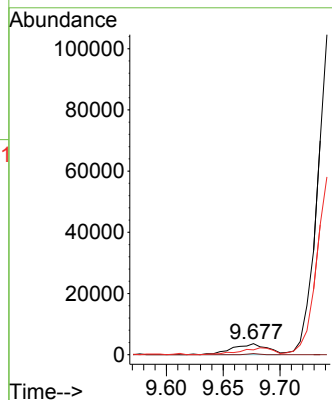
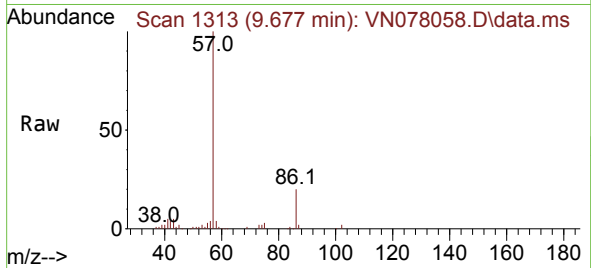




#48
Methyl methacrylate
Concen: 1.652 ug/l
RT: 9.677 min Scan# 1313
Delta R.T. -0.011 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

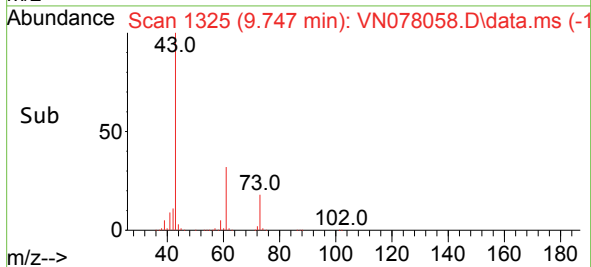
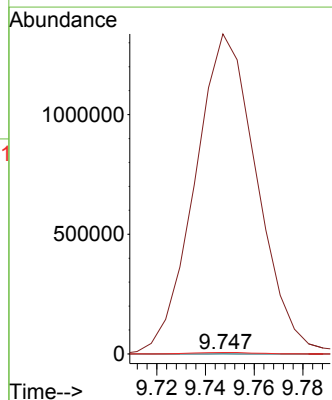
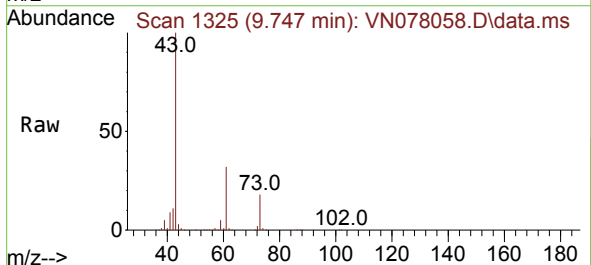
Instrument :
MSVOA_N
ClientSampleId :
TP-6

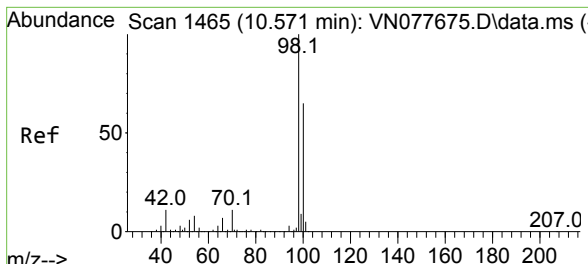
Tgt Ion: 41 Resp: 7671
Ion Ratio Lower Upper
41 100
69 3.2 90.4 135.6#
39 58.3 54.6 81.8



#49
1,4-Dioxane
Concen: 5.461 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.053 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

Tgt Ion: 88 Resp: 479
Ion Ratio Lower Upper
88 100
43 501390.0 17.0 25.6#
58 2375.8 47.0 70.4#

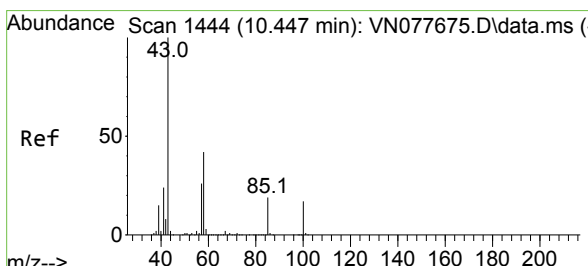
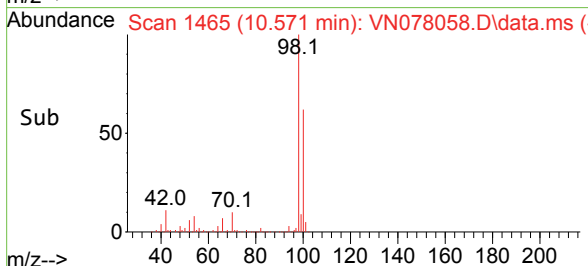
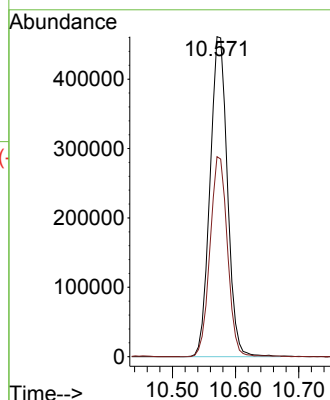
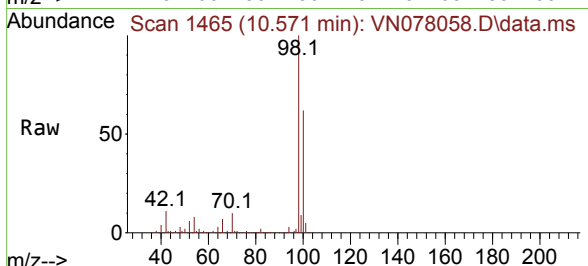




#50
Toluene-d8
Concen: 49.895 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

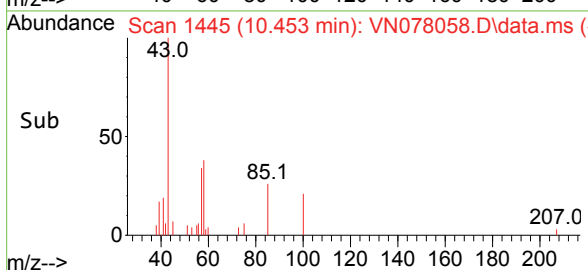
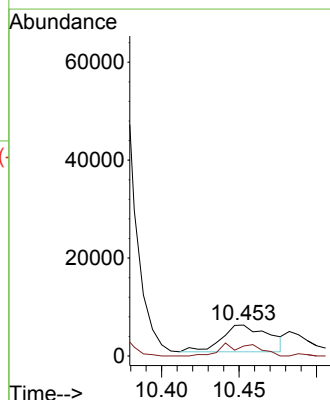
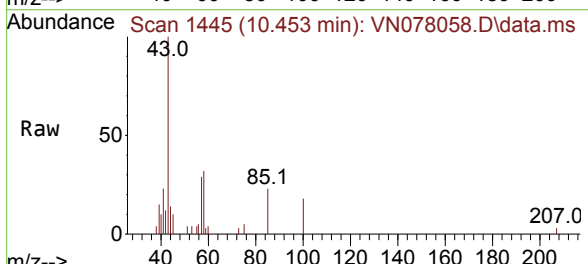
Instrument :
MSVOA_N
ClientSampleId :
TP-6

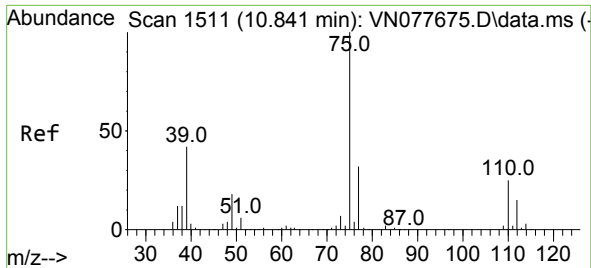
Tgt Ion: 98 Resp: 883336
Ion Ratio Lower Upper
98 100
100 62.6 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.998 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

Tgt Ion: 43 Resp: 11630
Ion Ratio Lower Upper
43 100
58 15.6 36.6 54.8#

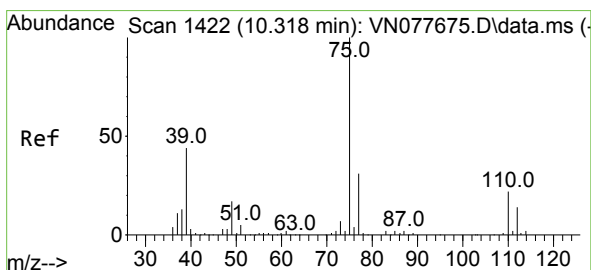
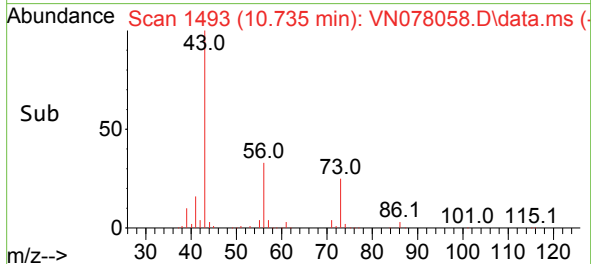
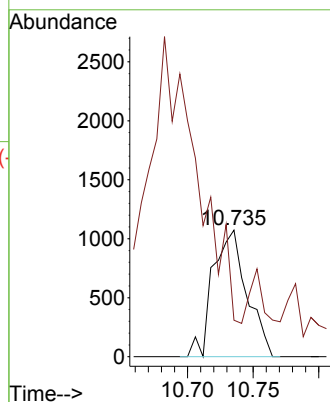
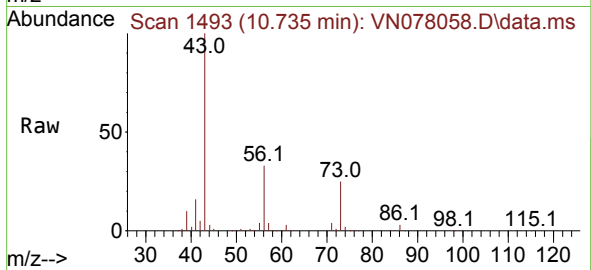




#53
 t-1,3-Dichloropropene
 Concen: 0.262 ug/l
 RT: 10.735 min Scan# 1493
 Delta R.T. -0.106 min
 Lab File: VN078058.D
 Acq: 05 Jun 2023 20:44

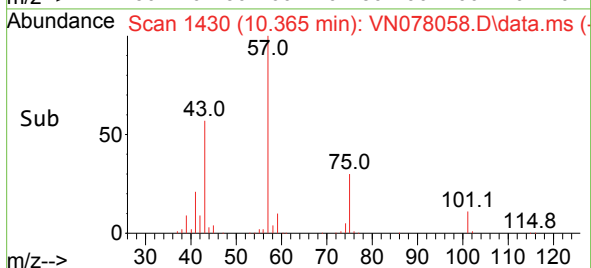
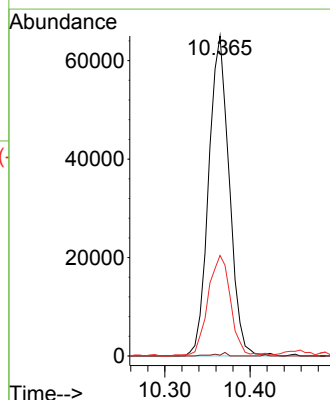
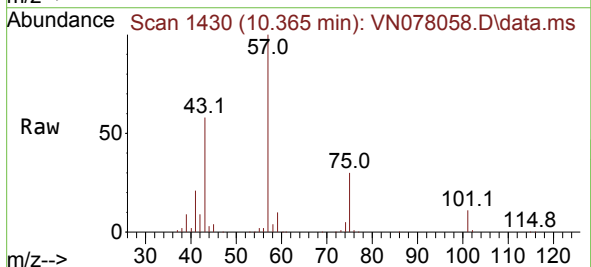
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-6

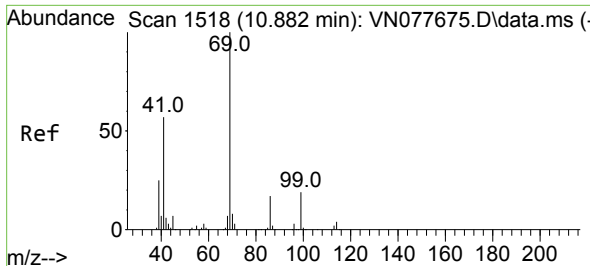
Tgt Ion: 75 Resp: 1928
 Ion Ratio Lower Upper
 75 100
 77 1.2 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 13.458 ug/l
 RT: 10.365 min Scan# 1430
 Delta R.T. 0.047 min
 Lab File: VN078058.D
 Acq: 05 Jun 2023 20:44

Tgt Ion: 75 Resp: 108953
 Ion Ratio Lower Upper
 75 100
 77 0.2 26.1 39.1#
 39 31.0 31.6 47.4#

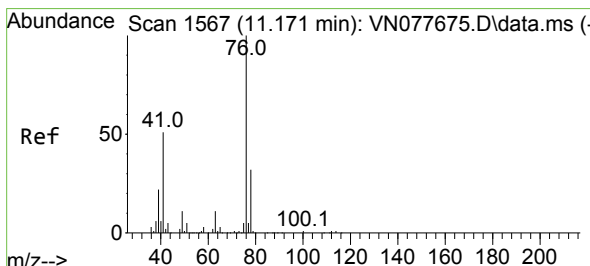
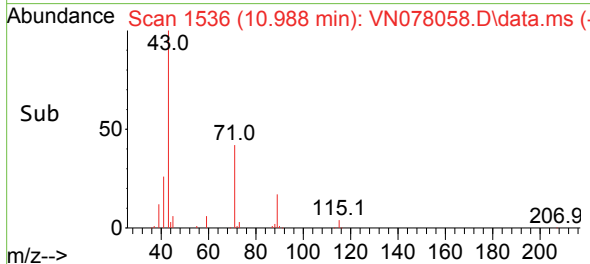
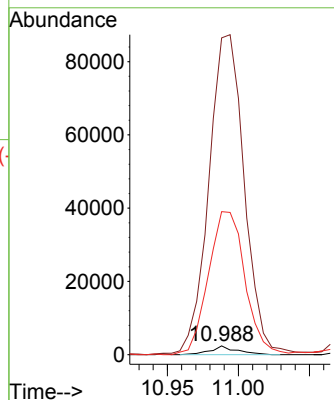
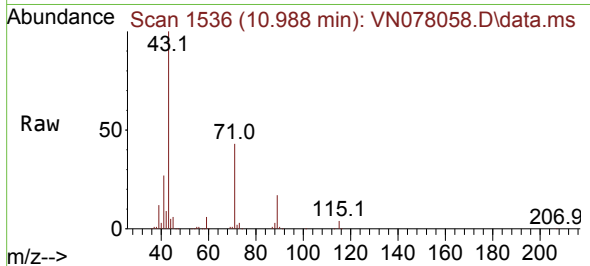




#56
Ethyl methacrylate
Concen: 0.418 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.106 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

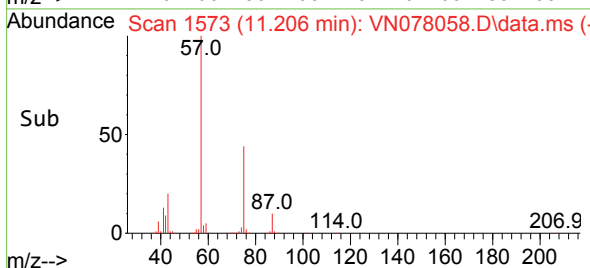
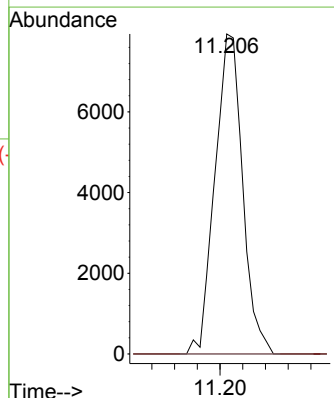
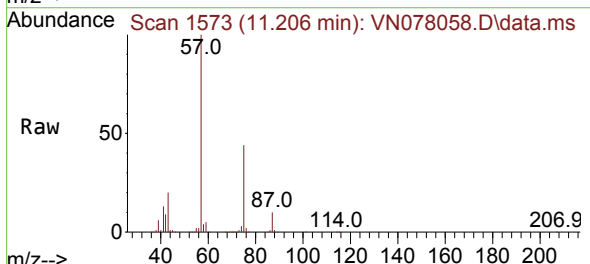
Instrument :
MSVOA_N
ClientSampleId :
TP-6

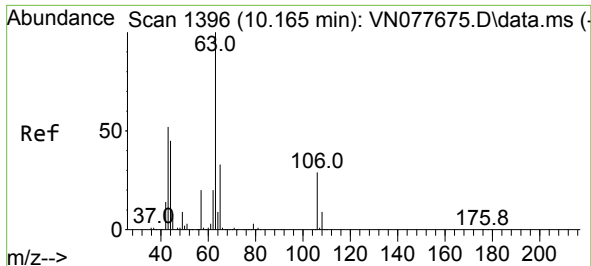
Tgt Ion: 69 Resp: 3100
Ion Ratio Lower Upper
69 100
41 4912.3 39.6 59.4#
39 2257.7 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.592 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

Tgt Ion: 76 Resp: 13397
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

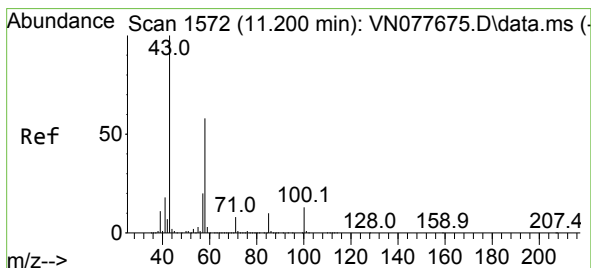
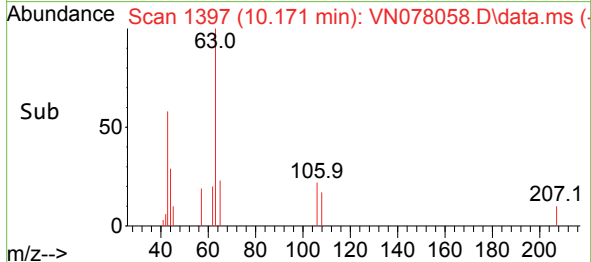
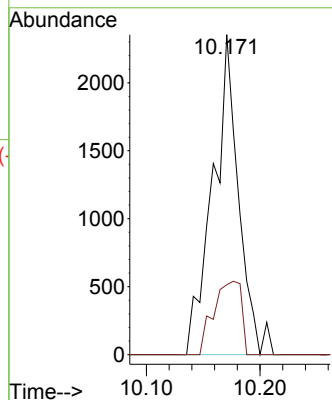
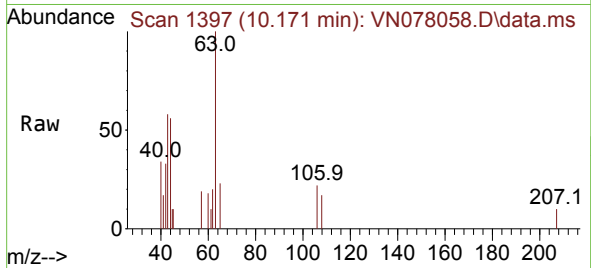




#58
2-Chloroethyl Vinyl ether
Concen: 1.019 ug/l
RT: 10.171 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

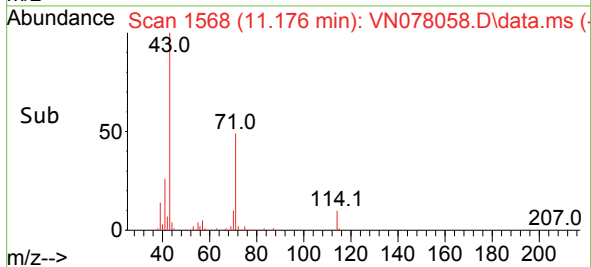
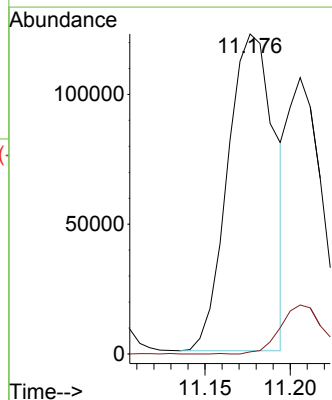
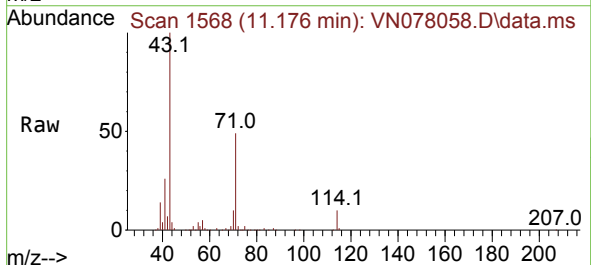
Instrument :
MSVOA_N
ClientSampleId :
TP-6

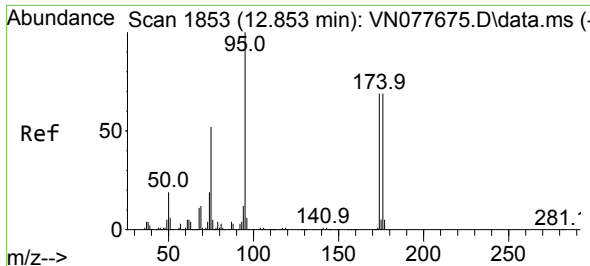
Tgt Ion: 63 Resp: 3719
Ion Ratio Lower Upper
63 100
106 24.7 26.2 39.4#



#59
2-Hexanone
Concen: 54.343 ug/l
RT: 11.176 min Scan# 1568
Delta R.T. -0.024 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

Tgt Ion: 43 Resp: 234013
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

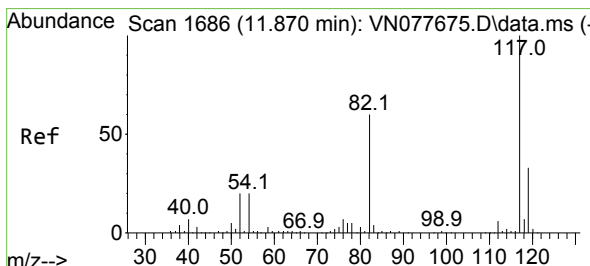
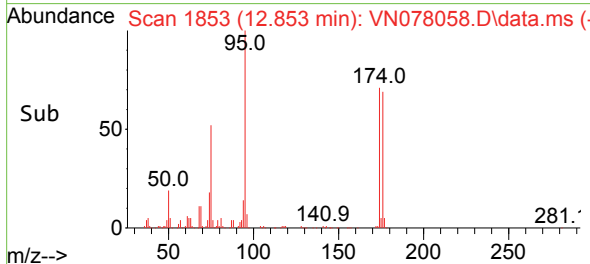
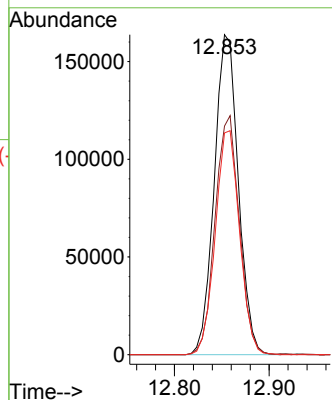
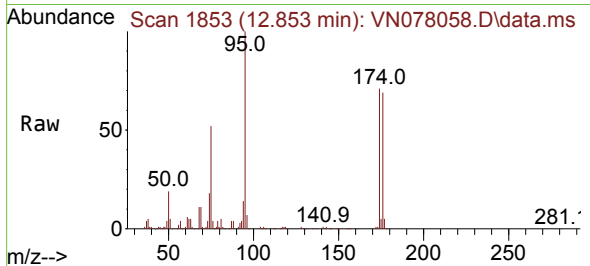




#62
4-Bromofluorobenzene
Concen: 46.309 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

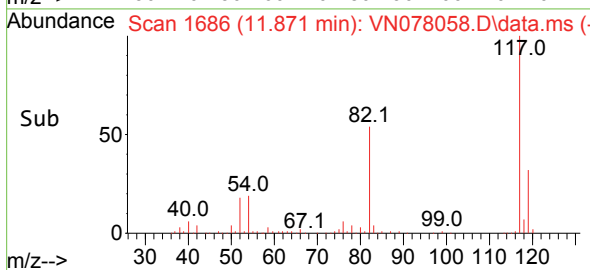
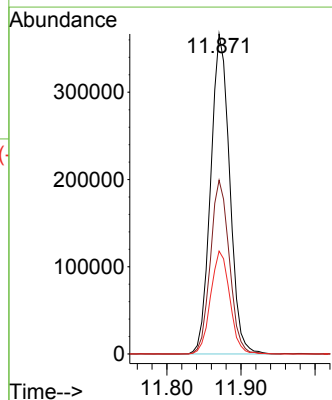
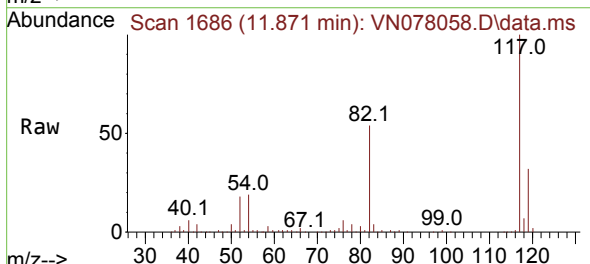
Instrument :
MSVOA_N
ClientSampleId :
TP-6

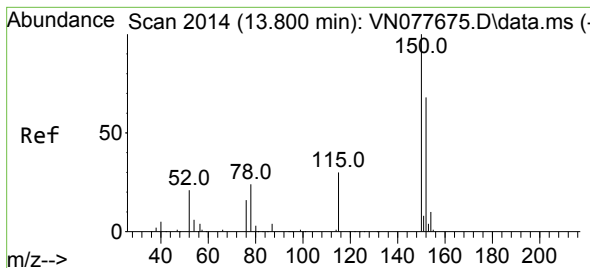
Tgt Ion: 95 Resp: 289554
Ion Ratio Lower Upper
95 100
174 75.2 0.0 143.8
176 70.6 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.001 min
Lab File: VN078058.D
Acq: 05 Jun 2023 20:44

Tgt Ion: 117 Resp: 652579
Ion Ratio Lower Upper
117 100
82 54.3 44.0 66.0
119 32.1 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN078058.D

Acq: 05 Jun 2023 20:44

Instrument :

MSVOA_N

ClientSampleId :

TP-6

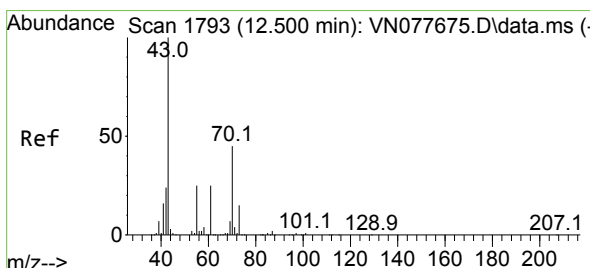
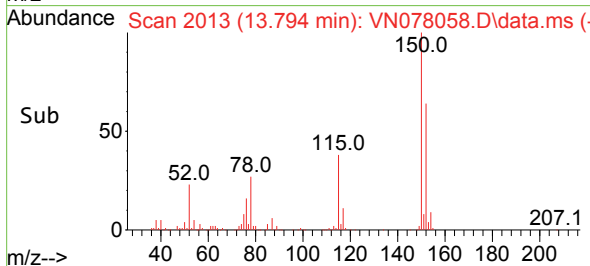
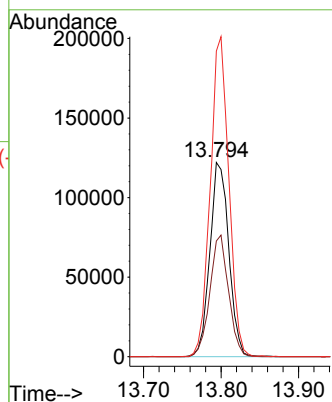
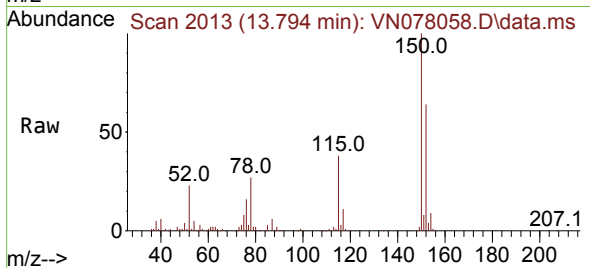
Tgt Ion:152 Resp: 208112

Ion Ratio Lower Upper

152 100

115 61.6 32.3 96.8

150 161.1 0.0 355.8



#74

N-ethyl acetate

Concen: 0.296 ug/l

RT: 12.476 min Scan# 1789

Delta R.T. -0.024 min

Lab File: VN078058.D

Acq: 05 Jun 2023 20:44

Tgt Ion: 43 Resp: 1960

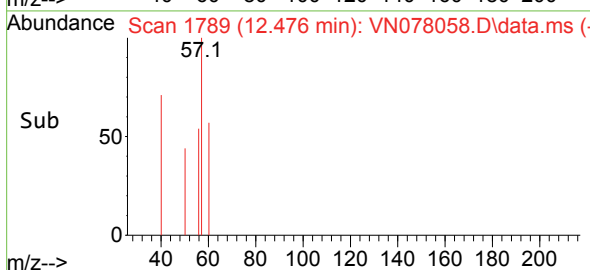
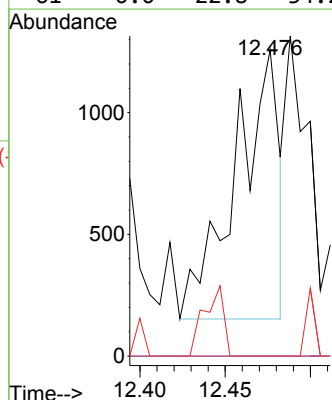
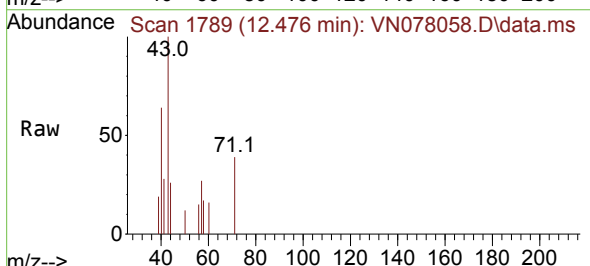
Ion Ratio Lower Upper

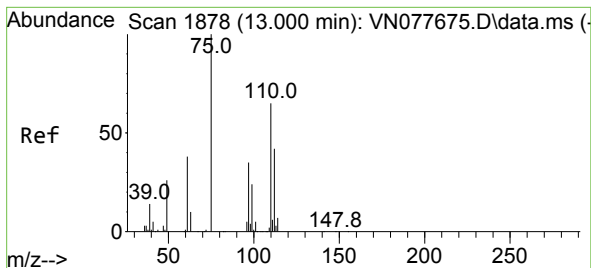
43 100

70 0.0 43.4 65.2#

55 0.0 21.4 32.0#

61 0.0 22.8 34.2#





#76

1,2,3-Trichloropropane

Concen: 29.260 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN078058.D

Acq: 05 Jun 2023 20:44

Instrument :

MSVOA_N

ClientSampleId :

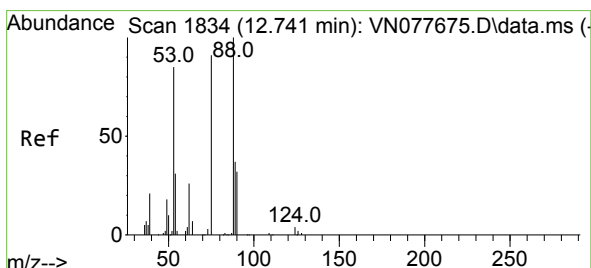
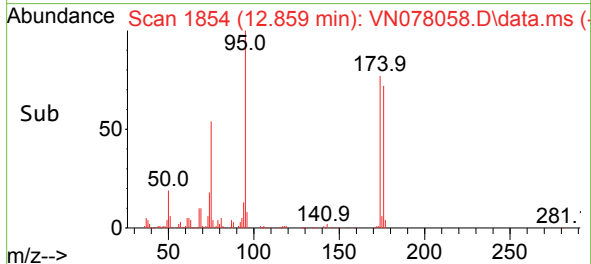
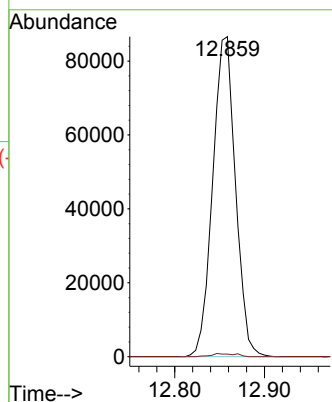
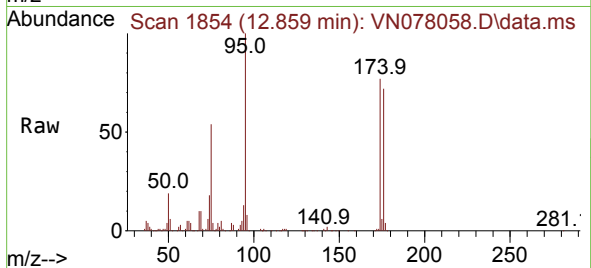
TP-6

Tgt Ion: 75 Resp: 152499

Ion Ratio Lower Upper

75 100

77 1.0 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 93.530 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.118 min

Lab File: VN078058.D

Acq: 05 Jun 2023 20:44

Tgt Ion: 75 Resp: 152499

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#

