

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091523\
 Data File : VN079274.D
 Acq On : 15 Sep 2023 16:06
 Operator : JC\MD
 Sample : PB155573ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 01:44:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 05:05:24 2023
 Response via : Initial Calibration

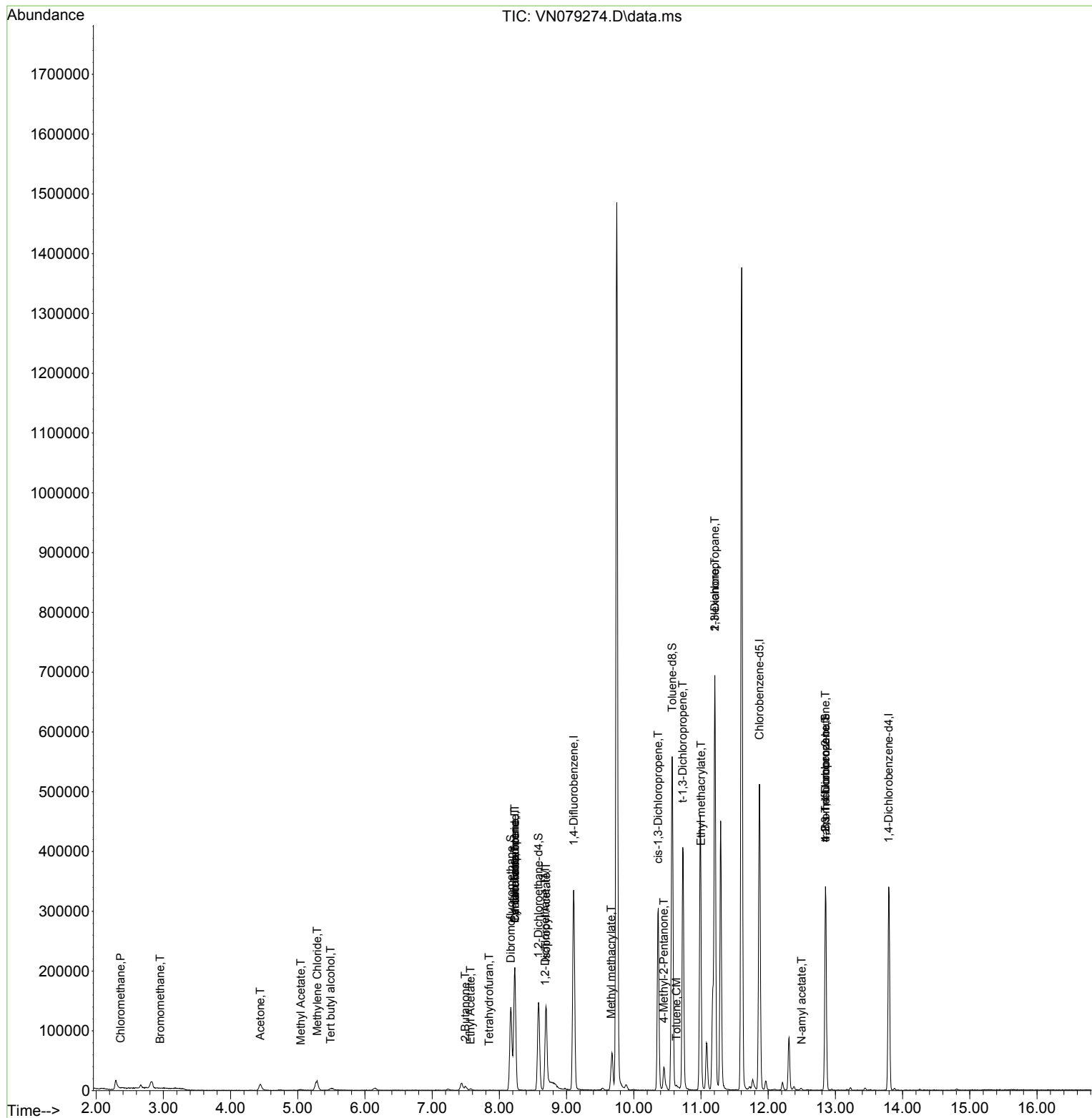
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	144829	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	289644	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	289337	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	87580	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	119598	61.174	ug/l	0.00
Spiked Amount 50.000	Range 74	- 125	Recovery	=	122.340%	
35) Dibromofluoromethane	8.171	113	99148	51.461	ug/l	0.00
Spiked Amount 50.000	Range 75	- 124	Recovery	=	102.920%	
50) Toluene-d8	10.571	98	382314	54.042	ug/l	0.00
Spiked Amount 50.000	Range 86	- 113	Recovery	=	108.080%	
62) 4-Bromofluorobenzene	12.853	95	115056	50.987	ug/l	0.00
Spiked Amount 50.000	Range 83	- 123	Recovery	=	101.980%	
Target Compounds						Qvalue
3) Chloromethane	2.365	50	733	0.390	ug/l #	78
5) Bromomethane	2.953	94	463	0.393	ug/l #	4
6) Chloroethane	3.118	64	244	Below Cal	#	43
11) Tert butyl alcohol	5.489	59	1764	4.887	ug/l #	72
16) Acetone	4.441	43	20281	24.425	ug/l	95
18) Methyl Acetate	5.047	43	2848	0.835	ug/l #	46
20) Methylene Chloride	5.289	84	12020	5.949	ug/l #	86
25) 2-Butanone	7.494	43	11296	9.376	ug/l #	87
29) Tetrahydrofuran	7.847	42	320	0.417	ug/l #	32
31) Cyclohexane	8.229	56	3502	1.227	ug/l #	51
36) 1,1-Dichloropropene	8.229	75	13448	4.528	ug/l #	47
37) Ethyl Acetate	7.571	43	3688	1.245	ug/l #	76
38) Carbon Tetrachloride	8.229	117	15860	5.161	ug/l #	18
42) 1,2-Dichloroethane	8.682	62	781	0.250	ug/l #	73
43) Isopropyl Acetate	8.694	43	167384	34.632	ug/l #	78
48) Methyl methacrylate	9.665	41	4277	1.976	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	31366	11.180	ug/l #	83
52) Toluene	10.635	92	2655	0.475	ug/l	96
53) t-1,3-Dichloropropene	10.729	75	870	0.263	ug/l	99
54) cis-1,3-Dichloropropene	10.365	75	53610	15.153	ug/l #	70
56) Ethyl methacrylate	11.000	69	2237	0.723	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	7411	1.956	ug/l #	42
59) 2-Hexanone	11.206	43	89483	44.035	ug/l #	48
74) N-amyl acetate	12.500	43	2432	0.804	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	63266	26.803	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	63266	73.687	ug/l #	15

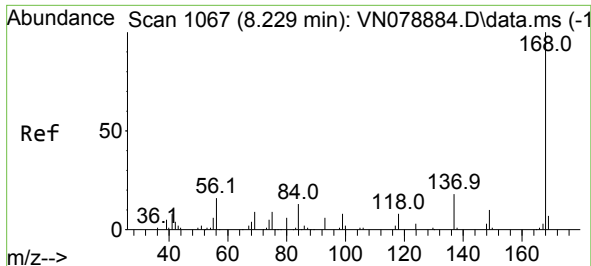
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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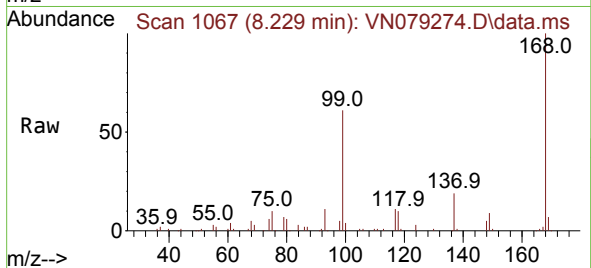
Quant Time: Sep 16 01:44:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N091123W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 12 05:05:24 2023
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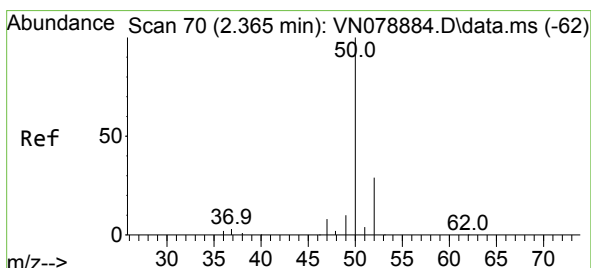
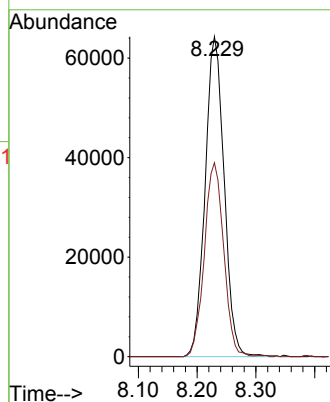
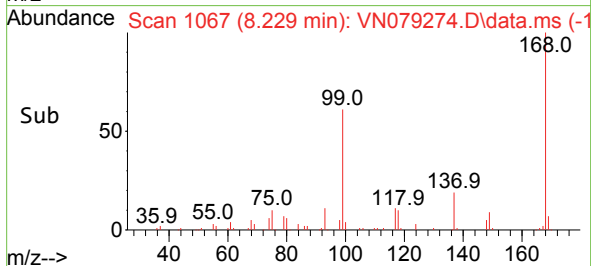


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

Instrument :
MSVOA_N
ClientSampleId :

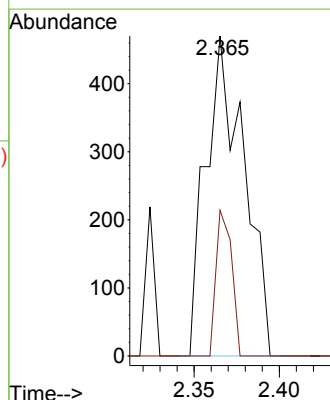
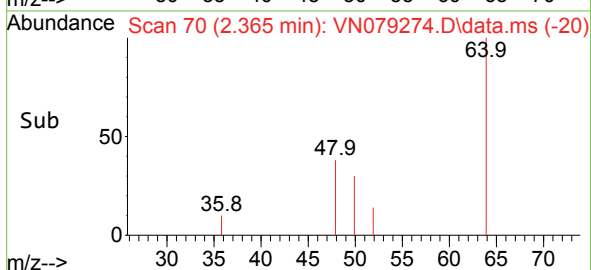
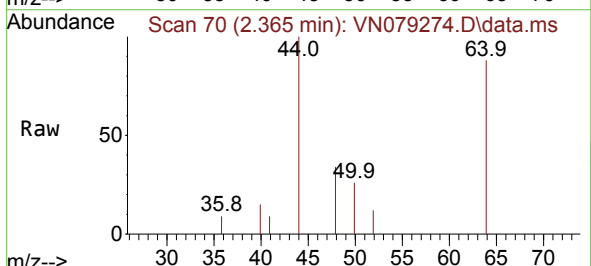


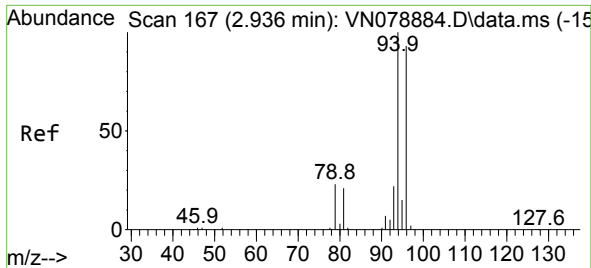
Tgt Ion:168 Resp: 144829
Ion Ratio Lower Upper
168 100
99 60.6 53.0 79.6



#3
Chloromethane
Concen: 0.390 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

Tgt Ion: 50 Resp: 733
Ion Ratio Lower Upper
50 100
52 45.5 26.5 39.7#





#5

Bromomethane

Concen: 0.393 ug/l

RT: 2.953 min Scan# 11

Delta R.T. 0.005 min

Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

Instrument :

MSVOA_N

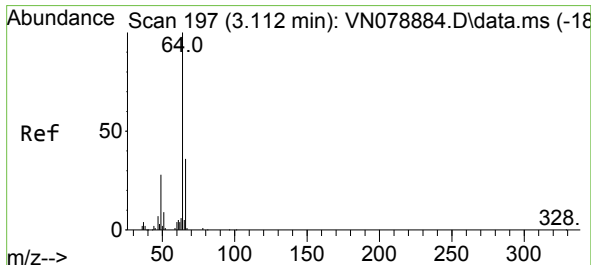
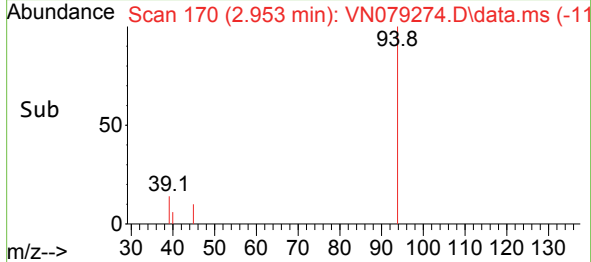
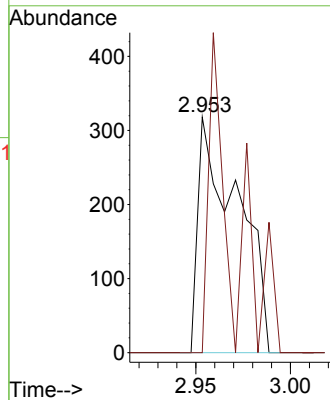
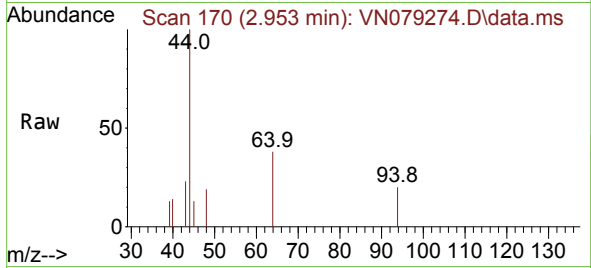
ClientSampleId :

Tgt Ion: 94 Resp: 463

Ion Ratio Lower Upper

94 100

96 0.0 73.1 109.7#



#6

Chloroethane

Concen: Below Cal

RT: 3.118 min Scan# 198

Delta R.T. 0.000 min

Lab File: VN079274.D

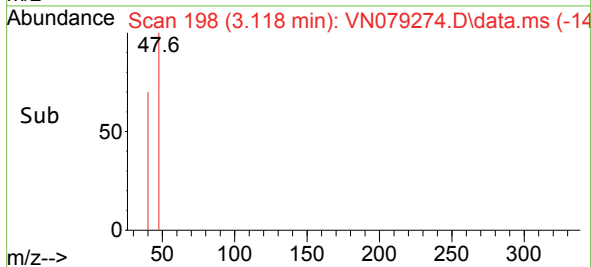
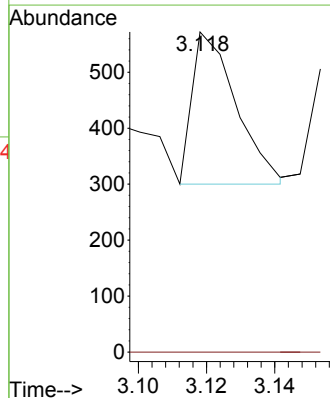
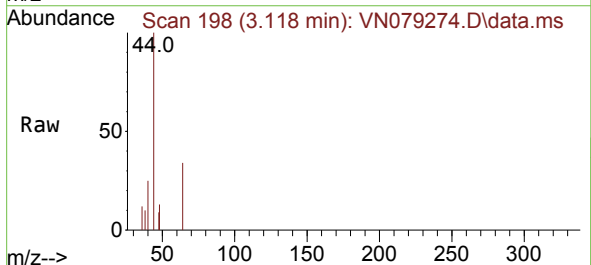
Acq: 15 Sep 2023 16:06

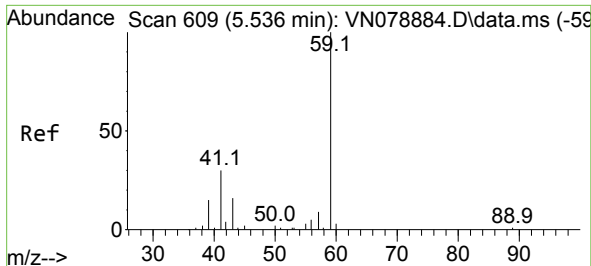
Tgt Ion: 64 Resp: 244

Ion Ratio Lower Upper

64 100

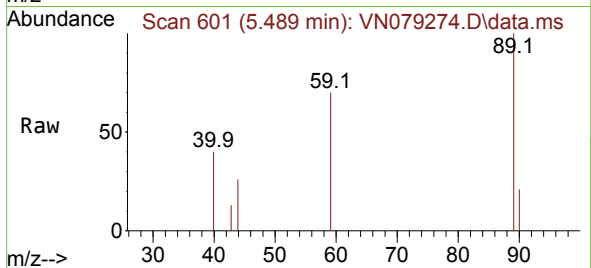
66 0.0 25.4 38.2#



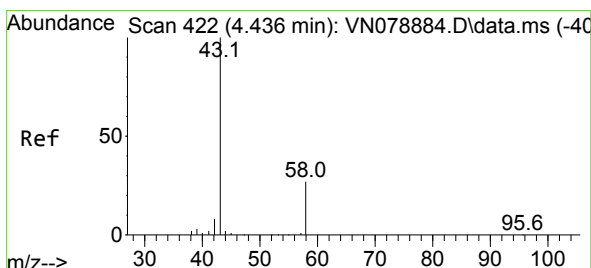
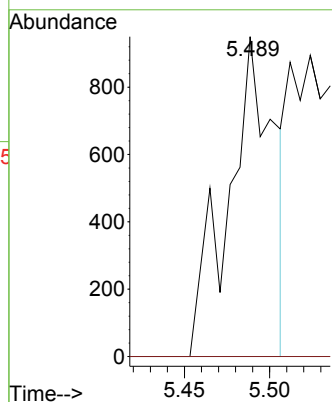
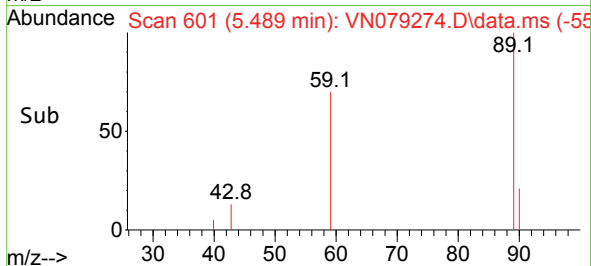


#11
Tert butyl alcohol
Concen: 4.887 ug/l
RT: 5.489 min Scan# 609
Delta R.T. -0.053 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

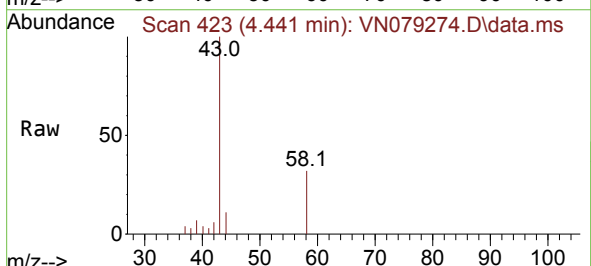
Instrument :
MSVOA_N
ClientSampleId :



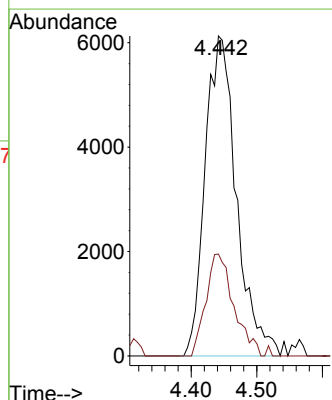
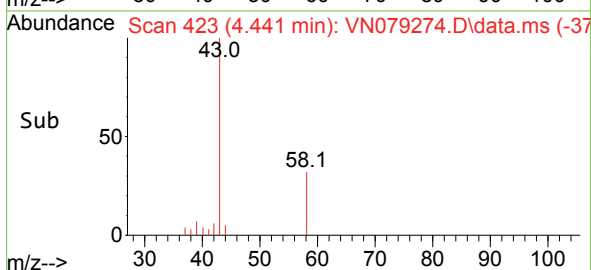
Tgt Ion: 59 Resp: 1764
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

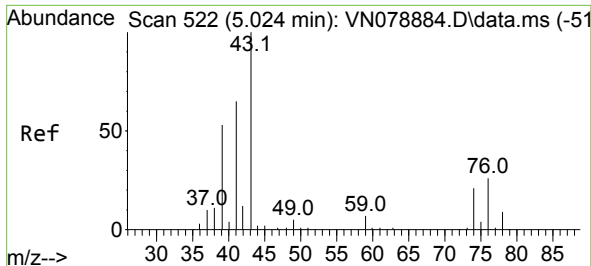


#16
Acetone
Concen: 24.425 ug/l
RT: 4.441 min Scan# 423
Delta R.T. -0.001 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06



Tgt Ion: 43 Resp: 20281
Ion Ratio Lower Upper
43 100
58 31.9 28.0 42.0

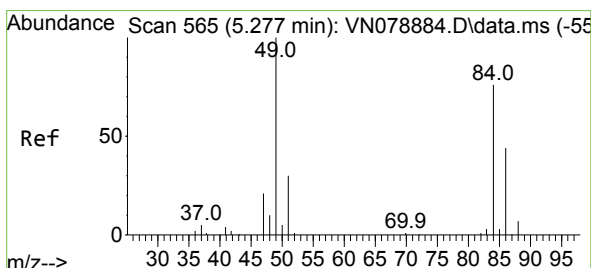
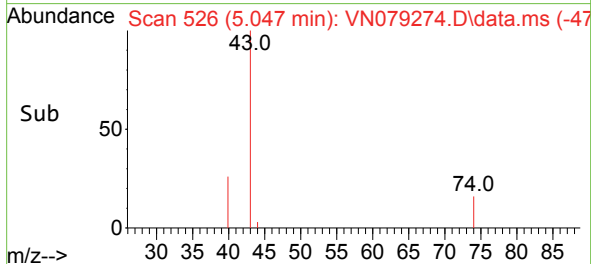
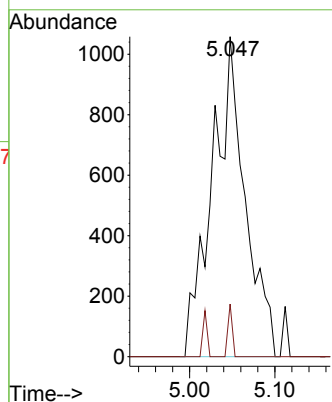
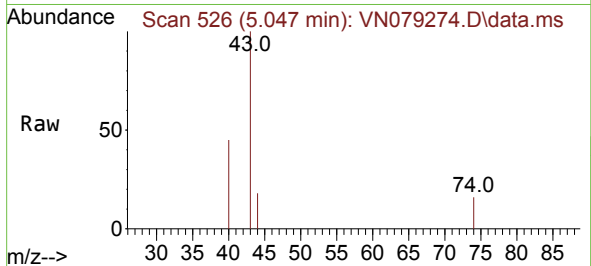




#18
Methyl Acetate
Concen: 0.835 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

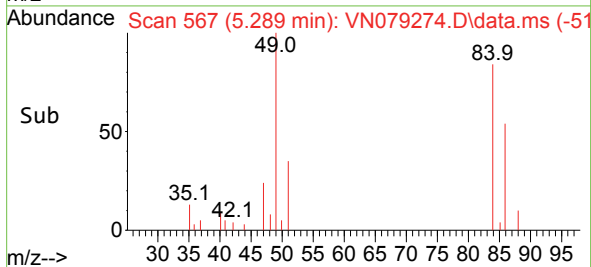
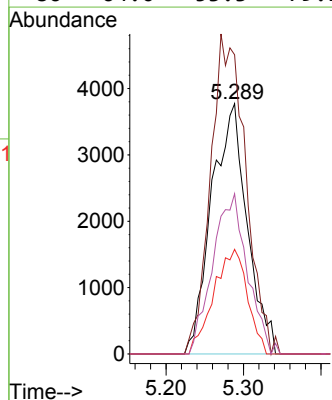
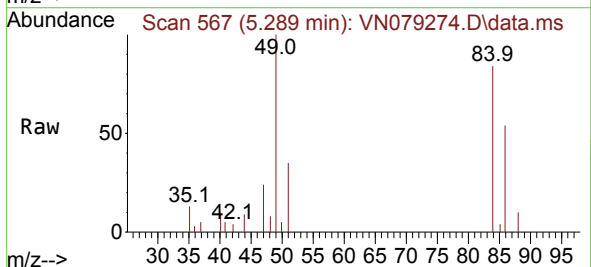
Instrument :
MSVOA_N
ClientSampleId :

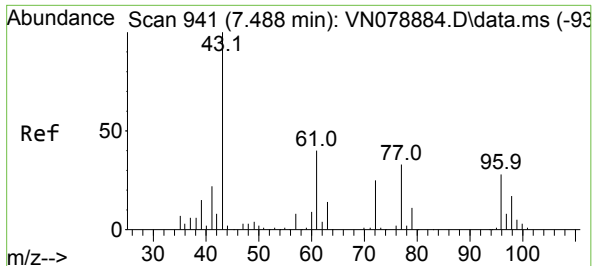
Tgt Ion: 43 Resp: 2848
Ion Ratio Lower Upper
43 100
74 2.1 26.2 39.4#



#20
Methylene Chloride
Concen: 5.949 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.005 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

Tgt Ion: 84 Resp: 12020
Ion Ratio Lower Upper
84 100
49 119.6 79.7 119.5#
51 41.8 25.2 37.8#
86 64.0 53.3 79.9





#25

2-Butanone

Concen: 9.376 ug/l

RT: 7.494 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

Instrument :

MSVOA_N

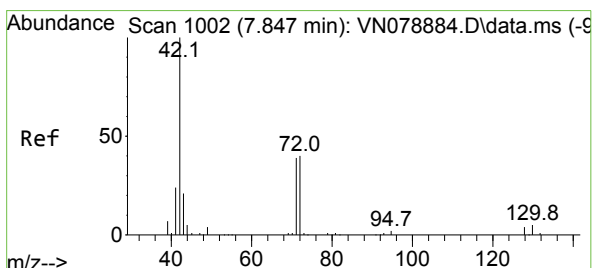
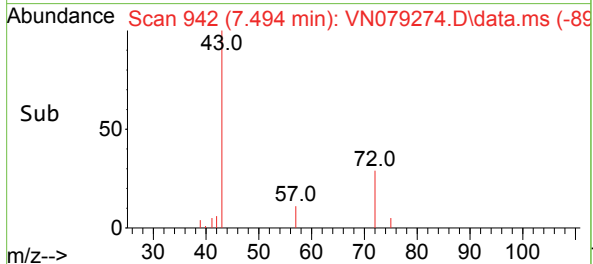
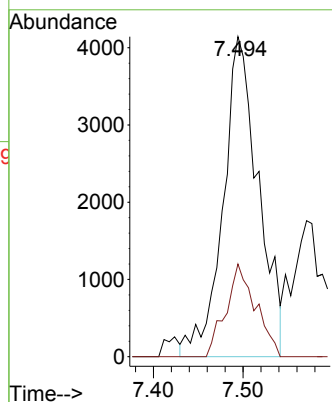
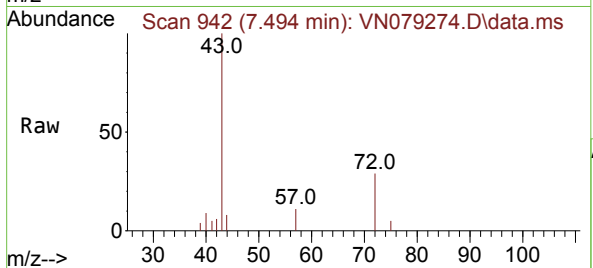
ClientSampleId :

Tgt Ion: 43 Resp: 11296

Ion Ratio Lower Upper

43 100

72 30.1 30.2 45.2#



#29

Tetrahydrofuran

Concen: 0.417 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.000 min

Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

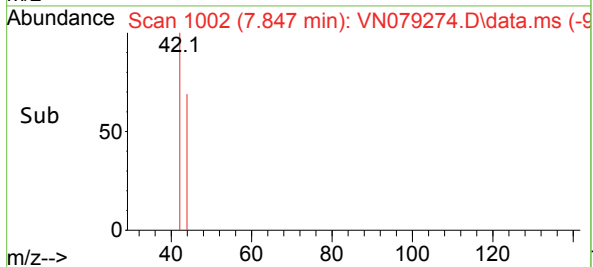
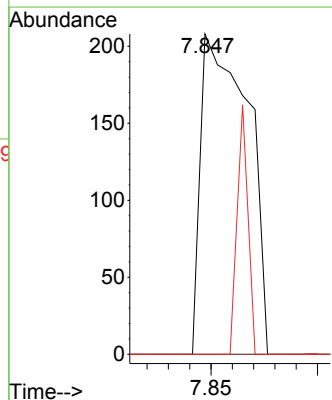
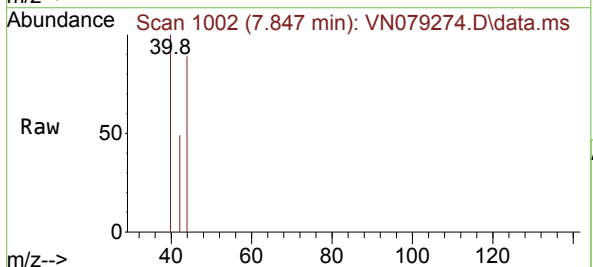
Tgt Ion: 42 Resp: 320

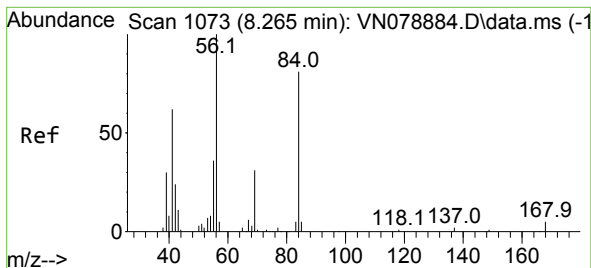
Ion Ratio Lower Upper

42 100

72 0.0 49.8 74.6#

71 17.8 47.4 71.2#





#31

Cyclohexane

Concen: 1.227 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.036 min

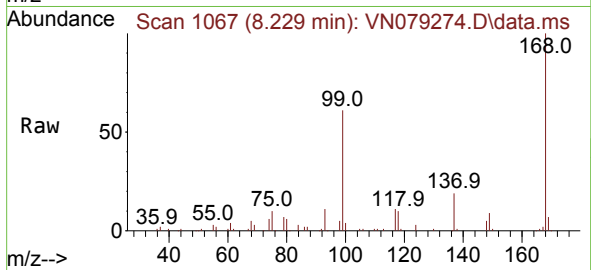
Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

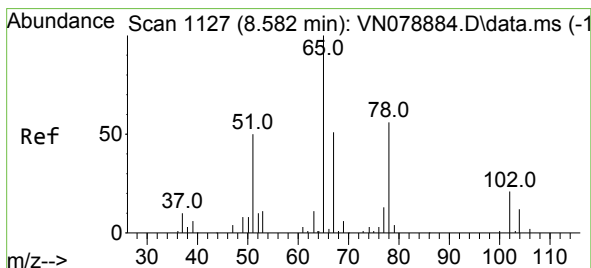
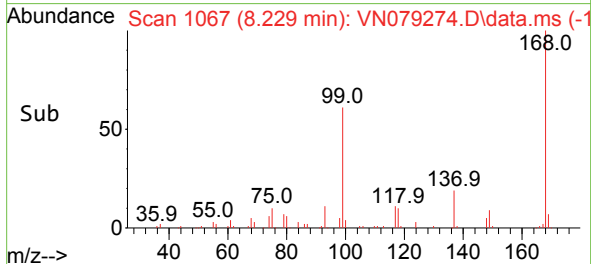
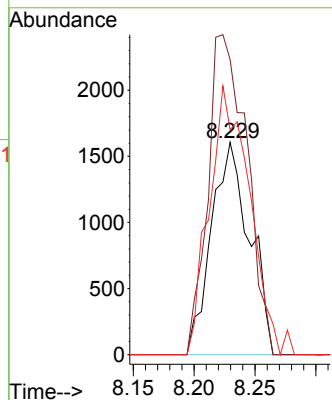
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 56	Resp: 3502
Ion Ratio	Lower Upper
56	100
69	139.0 26.8 40.2#
84	105.9 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 61.174 ug/l

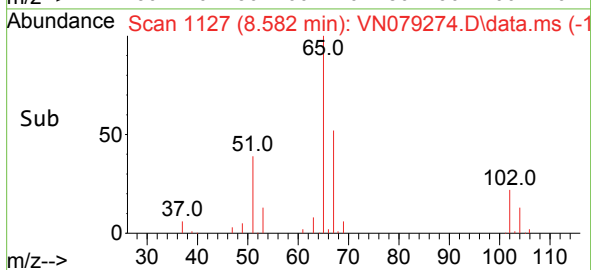
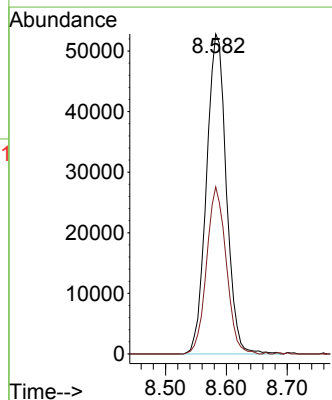
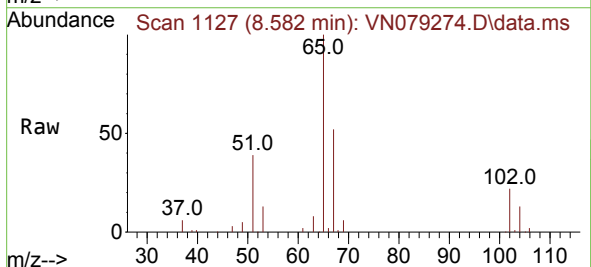
RT: 8.582 min Scan# 1127

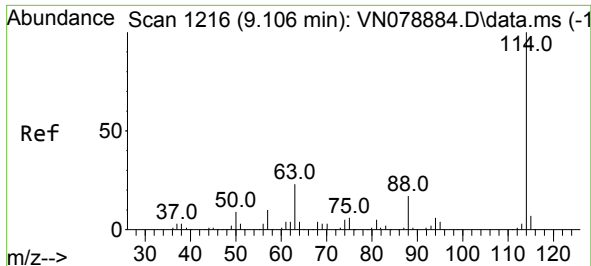
Delta R.T. -0.001 min

Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

Tgt Ion: 65	Resp: 119598
Ion Ratio	Lower Upper
65	100
67	51.7 0.0 106.6

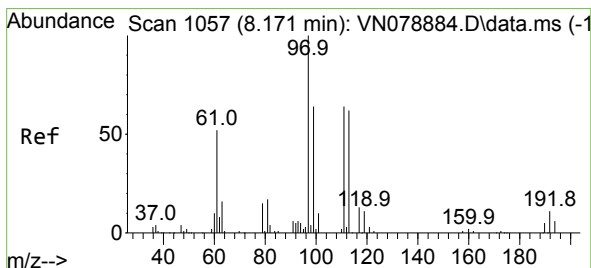
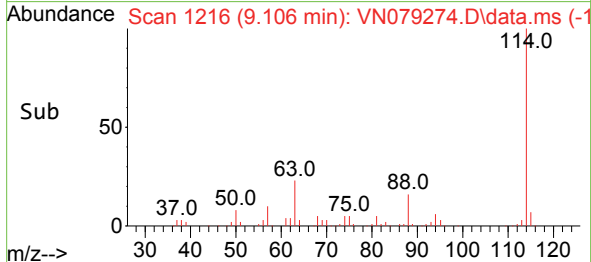
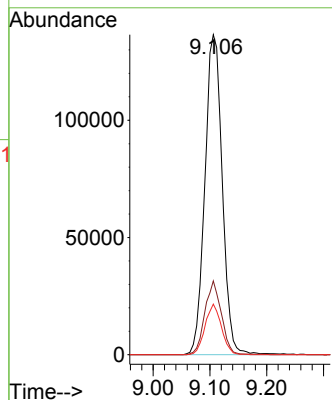
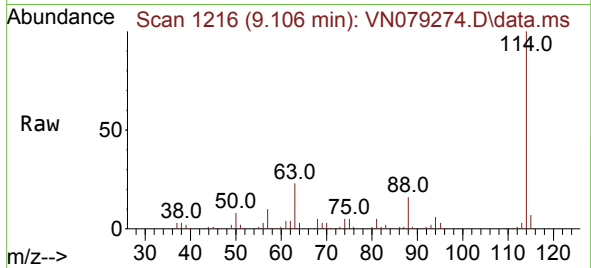




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

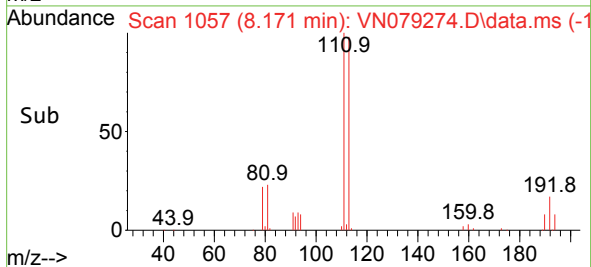
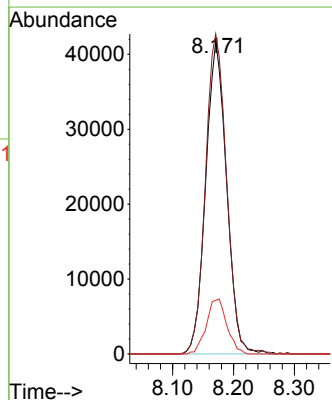
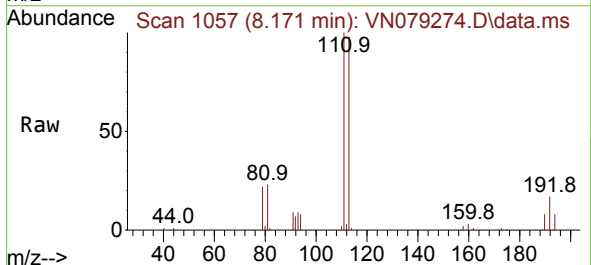
Instrument :
MSVOA_N
ClientSampleId :

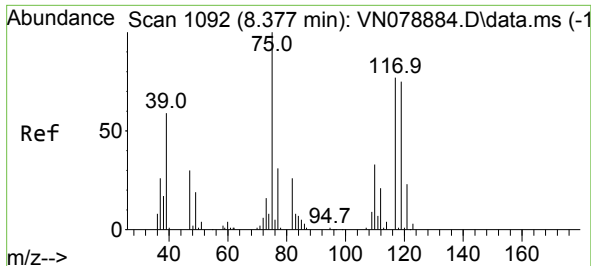
Tgt Ion:114 Resp: 289644
Ion Ratio Lower Upper
114 100
63 23.1 0.0 36.4
88 15.8 0.0 30.6



#35
Dibromofluoromethane
Concen: 51.461 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

Tgt Ion:113 Resp: 99148
Ion Ratio Lower Upper
113 100
111 104.0 82.6 123.8
192 17.4 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.528 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.148 min

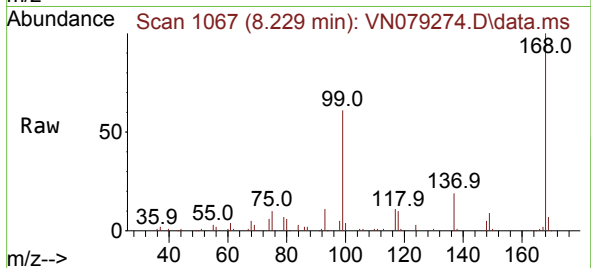
Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :



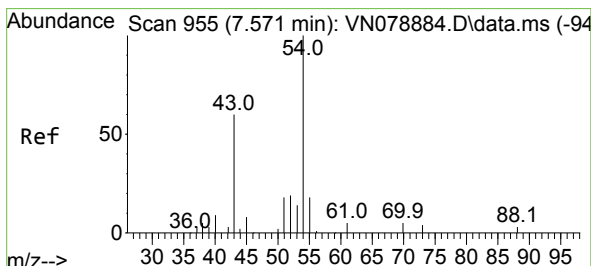
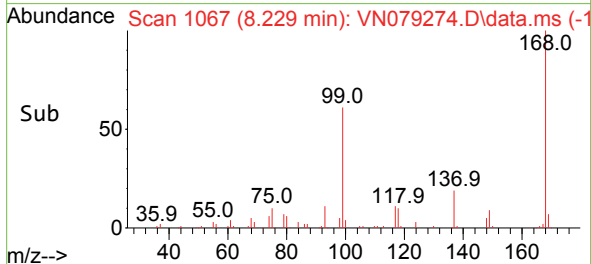
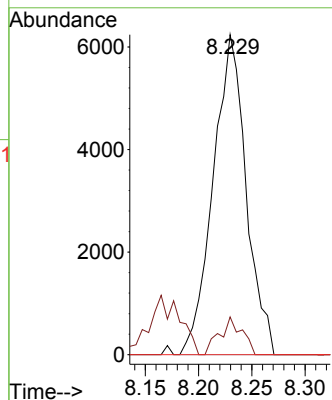
Tgt Ion: 75 Resp: 13448

Ion Ratio Lower Upper

75 100

110 8.0 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.245 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.000 min

Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

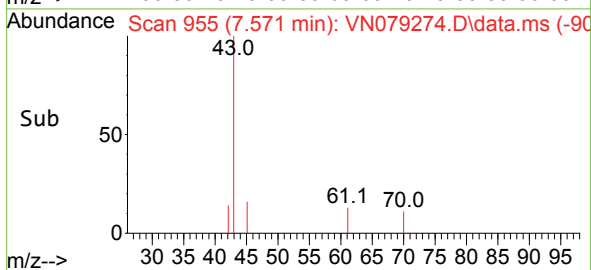
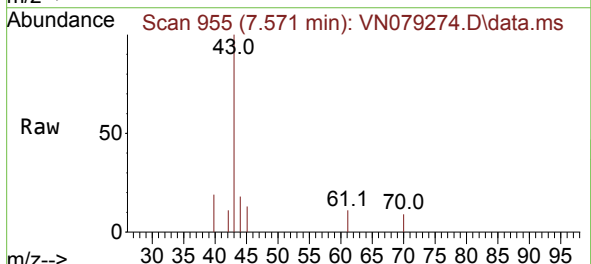
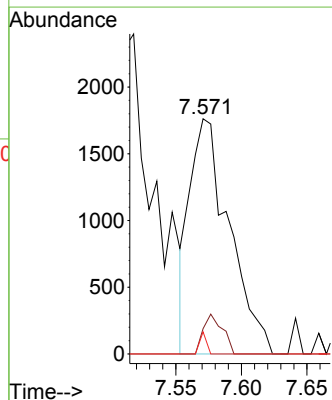
Tgt Ion: 43 Resp: 3688

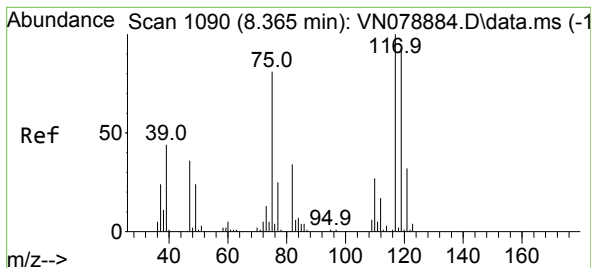
Ion Ratio Lower Upper

43 100

61 8.3 13.2 19.8#

70 1.6 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.161 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.142 min

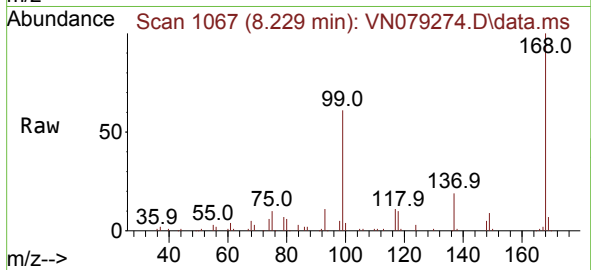
Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :



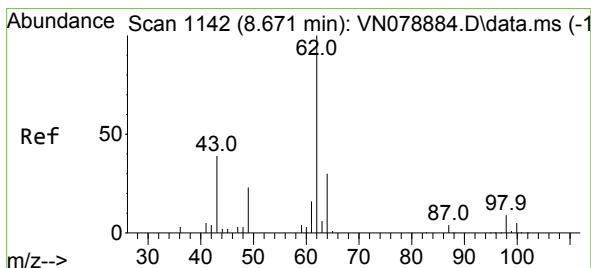
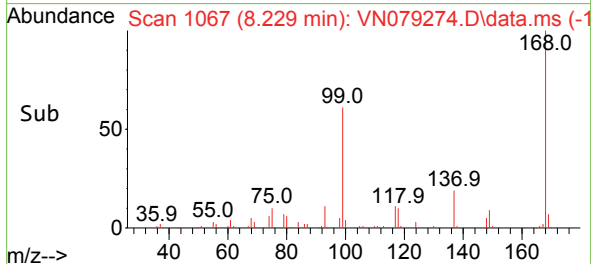
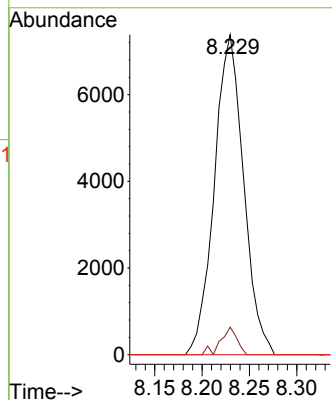
Tgt Ion: 117 Resp: 15860

Ion Ratio Lower Upper

117 100

119 8.6 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.250 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.005 min

Lab File: VN079274.D

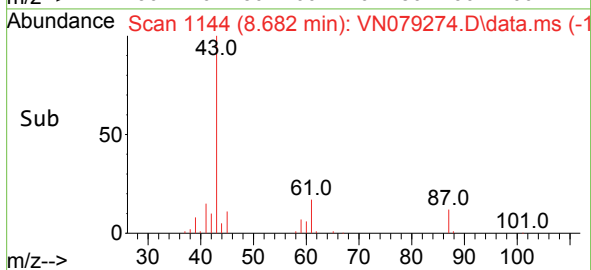
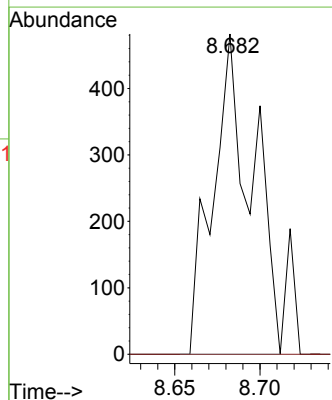
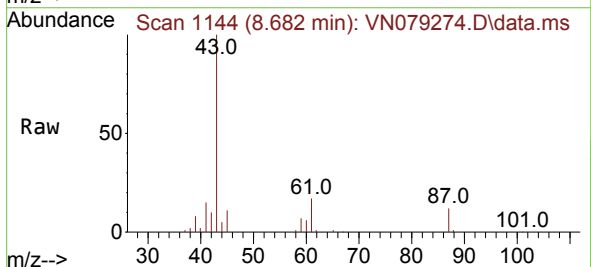
Acq: 15 Sep 2023 16:06

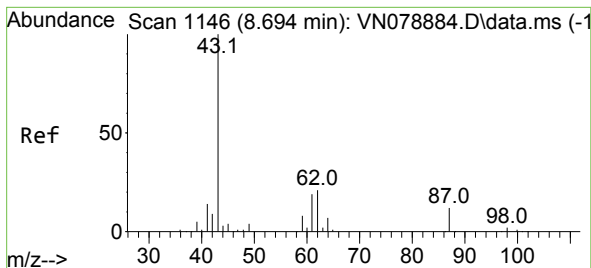
Tgt Ion: 62 Resp: 781

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8





#43

Isopropyl Acetate

Concen: 34.632 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :

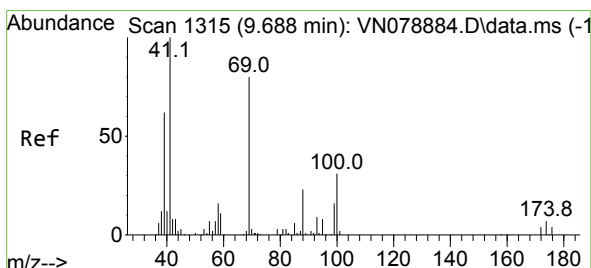
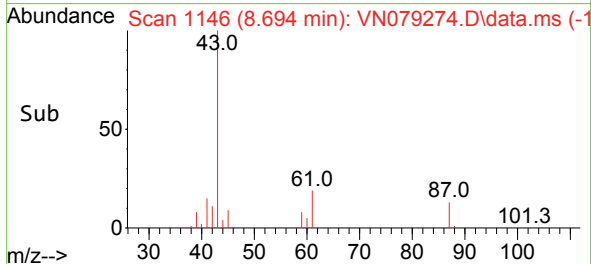
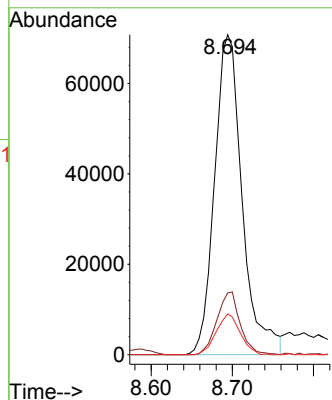
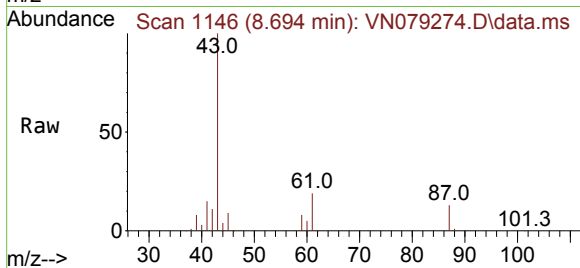
Tgt Ion: 43 Resp: 167384

Ion Ratio Lower Upper

43 100

61 16.5 24.7 37.1#

87 11.0 14.6 21.8#



#48

Methyl methacrylate

Concen: 1.976 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.023 min

Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

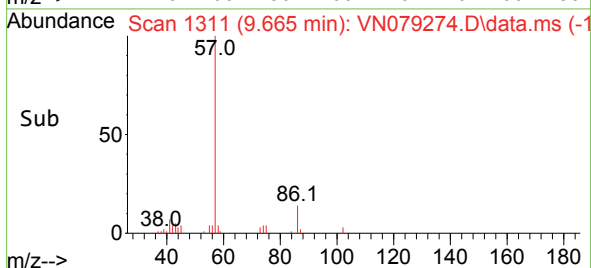
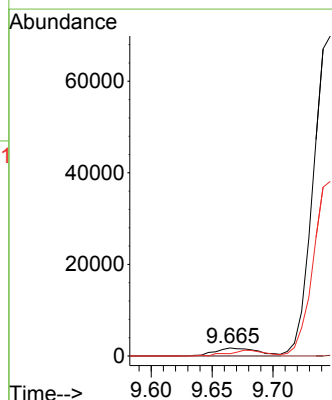
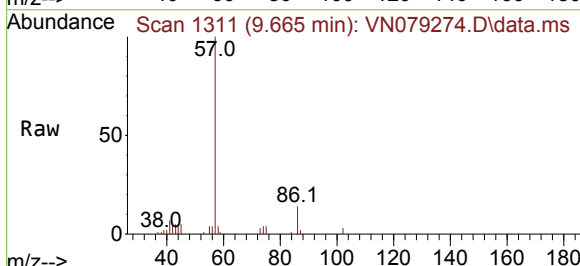
Tgt Ion: 41 Resp: 4277

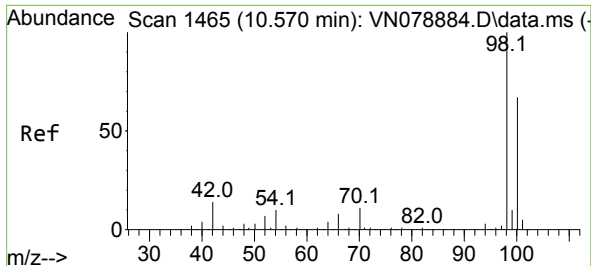
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 59.7 54.6 81.8

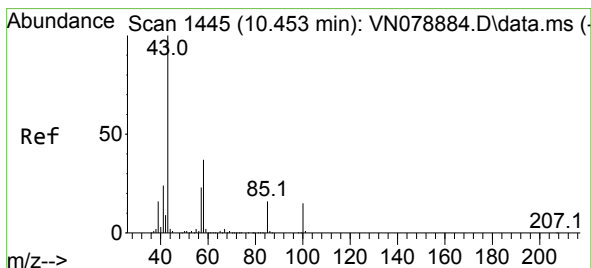
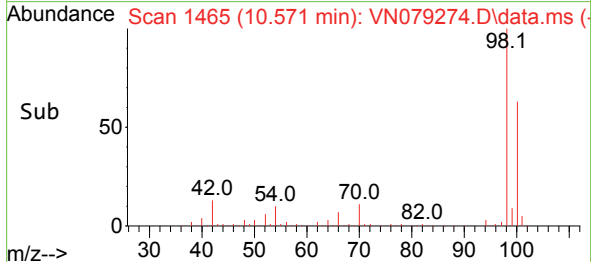
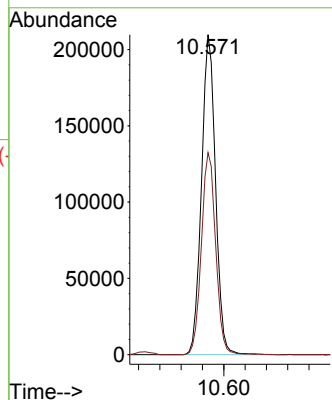
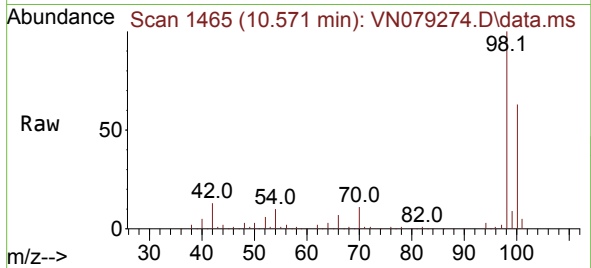




#50
Toluene-d8
Concen: 54.042 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

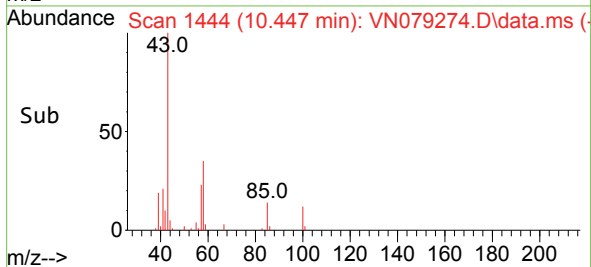
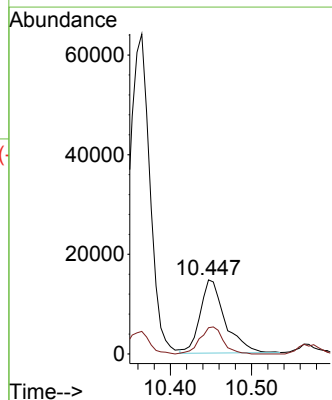
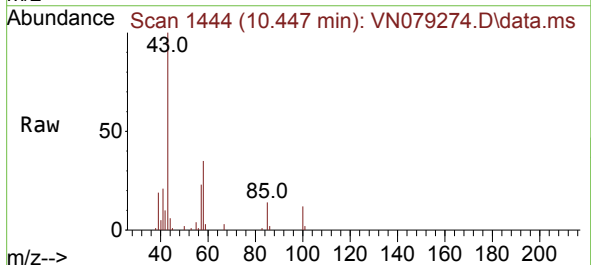
Instrument :
MSVOA_N
ClientSampleId :

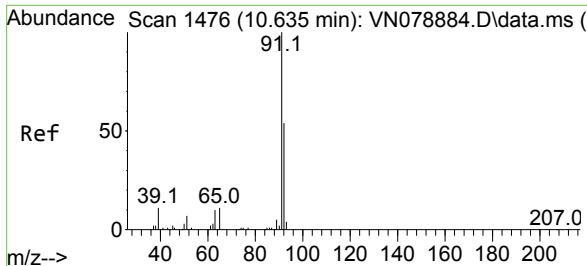
Tgt Ion: 98 Resp: 382314
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 11.180 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

Tgt Ion: 43 Resp: 31366
Ion Ratio Lower Upper
43 100
58 34.3 36.6 54.8#

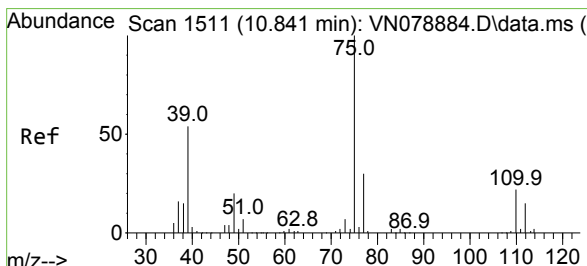
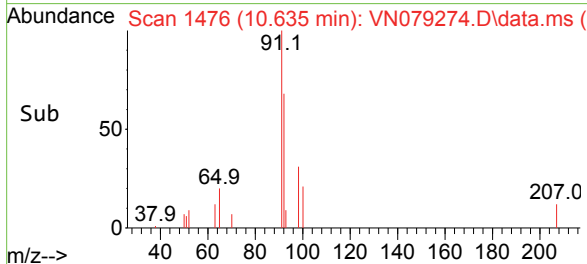
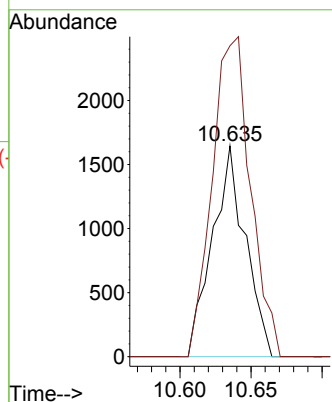
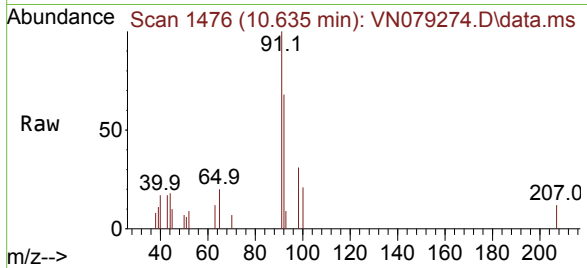




#52
Toluene
Concen: 0.475 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

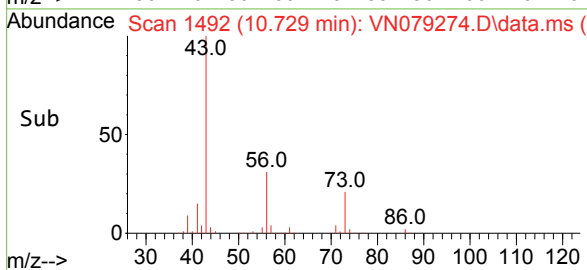
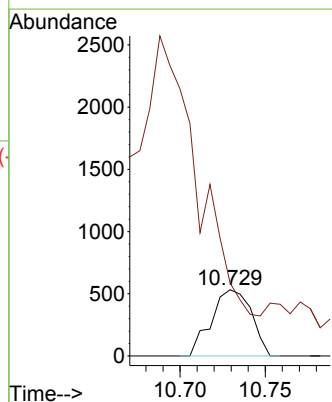
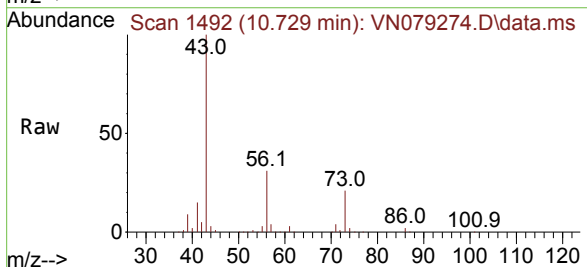
Instrument :
MSVOA_N
ClientSampleId :

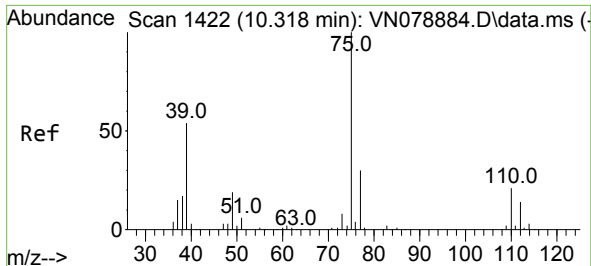
Tgt Ion: 92 Resp: 2655
Ion Ratio Lower Upper
92 100
91 177.0 137.4 206.0



#53
t-1,3-Dichloropropene
Concen: 0.263 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

Tgt Ion: 75 Resp: 870
Ion Ratio Lower Upper
75 100
77 32.1 25.4 38.0

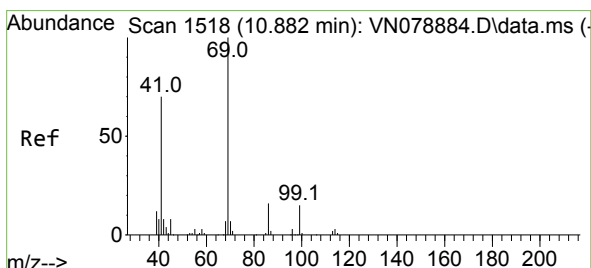
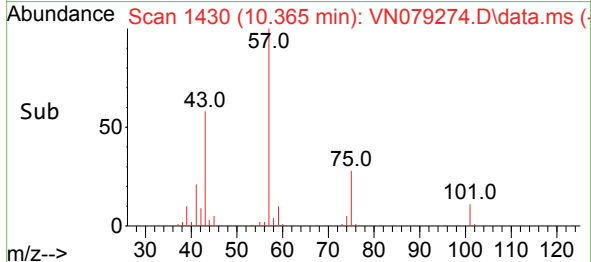
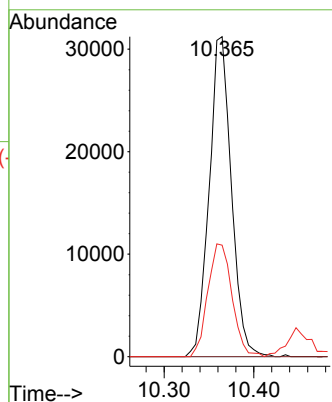
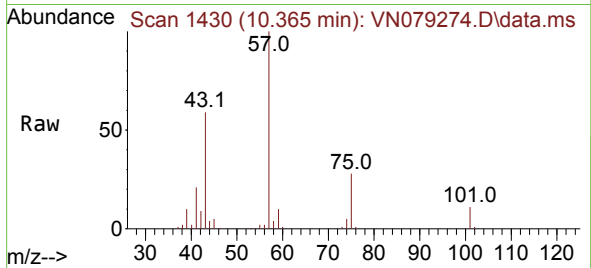




#54
cis-1,3-Dichloropropene
Concen: 15.153 ug/l
RT: 10.365 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

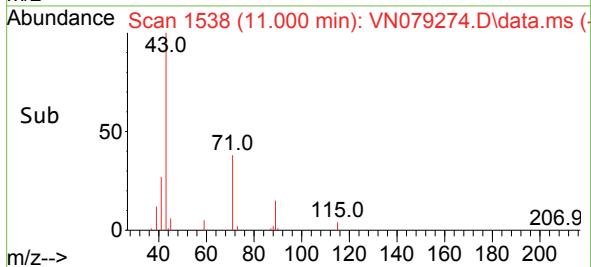
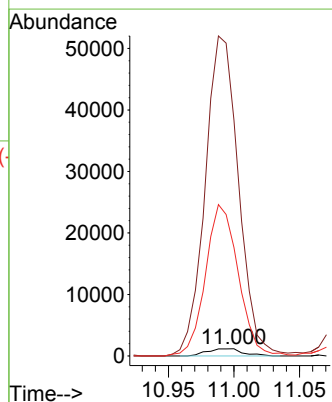
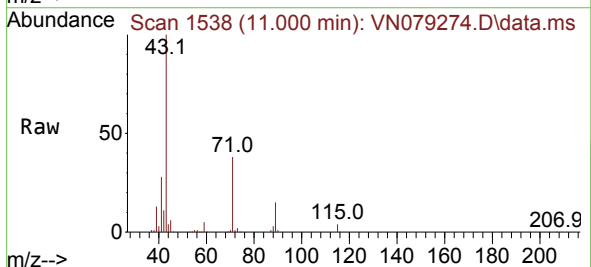
Instrument :
MSVOA_N
ClientSampleId :

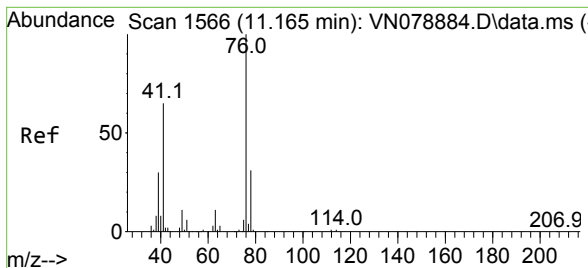
Tgt Ion: 75 Resp: 53610
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 34.9 31.6 47.4



#56
Ethyl methacrylate
Concen: 0.723 ug/l
RT: 11.000 min Scan# 1538
Delta R.T. 0.123 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

Tgt Ion: 69 Resp: 2237
Ion Ratio Lower Upper
69 100
41 4120.5 39.6 59.4#
39 1911.6 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.956 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

Instrument :

MSVOA_N

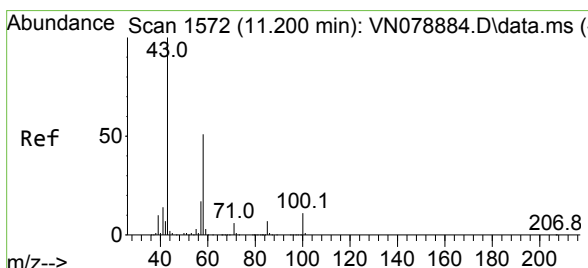
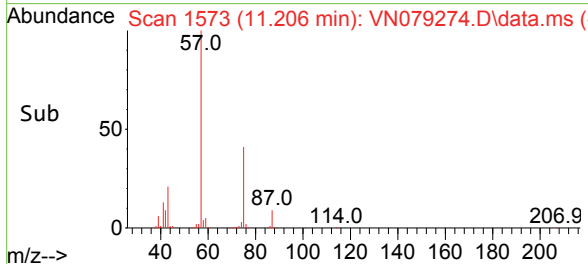
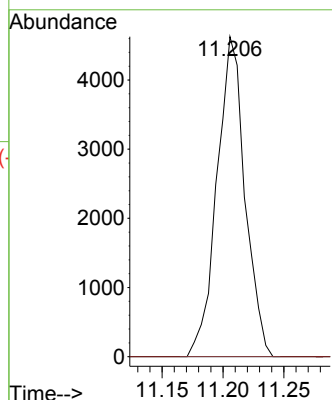
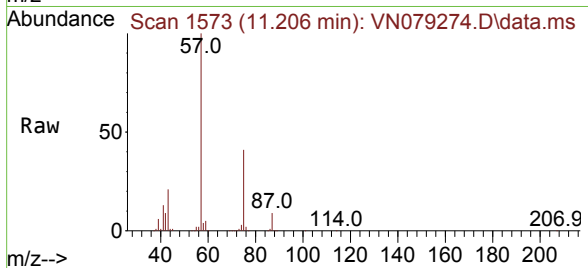
ClientSampleId :

Tgt Ion: 76 Resp: 7411

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 44.035 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN079274.D

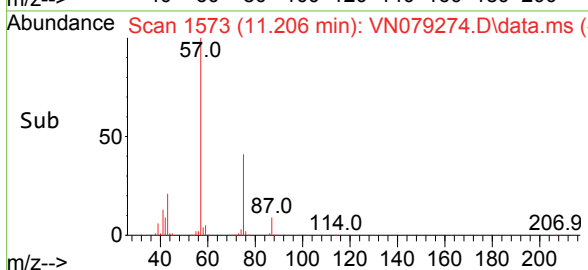
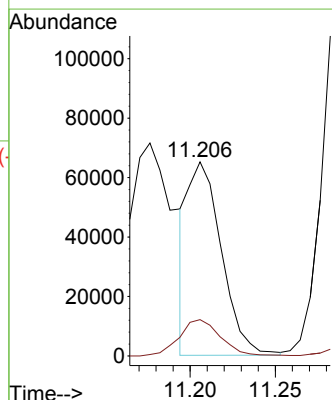
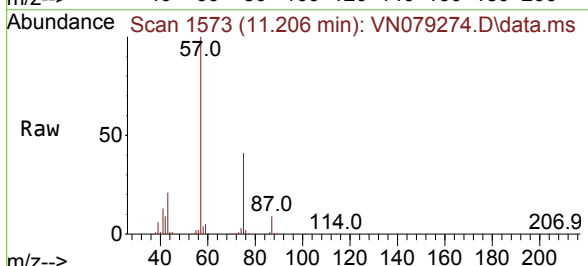
Acq: 15 Sep 2023 16:06

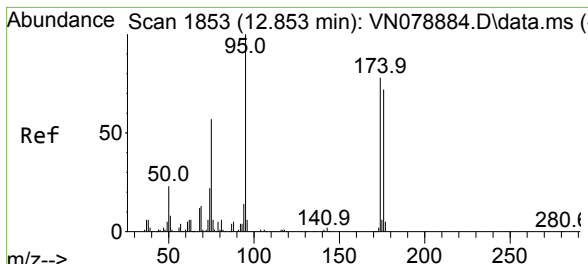
Tgt Ion: 43 Resp: 89483

Ion Ratio Lower Upper

43 100

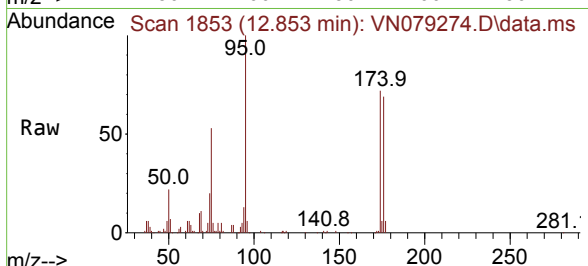
58 23.2 31.7 95.1#



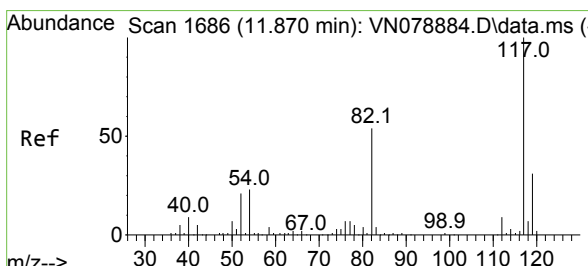
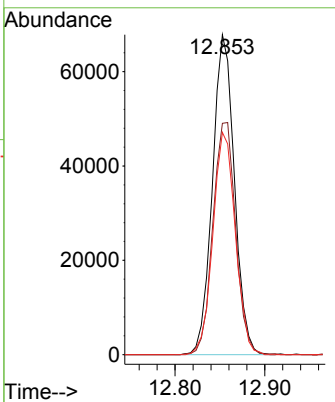
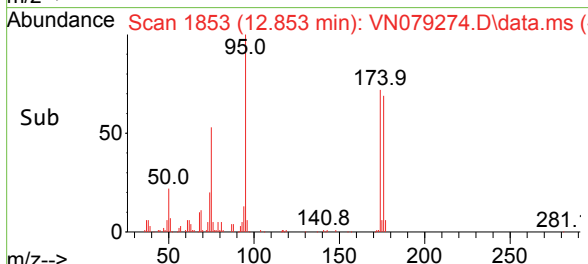


#62
 4-Bromofluorobenzene
 Concen: 50.987 ug/l
 RT: 12.853 min Scan# 115056
 Delta R.T. -0.000 min
 Lab File: VN079274.D
 Acq: 15 Sep 2023 16:06

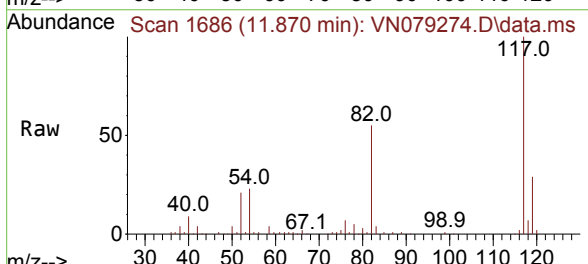
Instrument :
 MSVOA_N
 ClientSampleId :



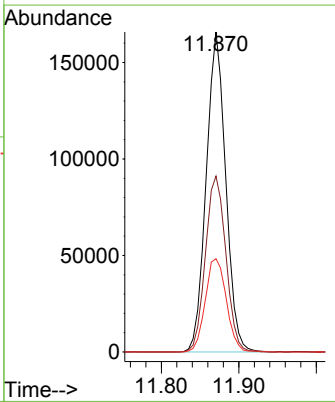
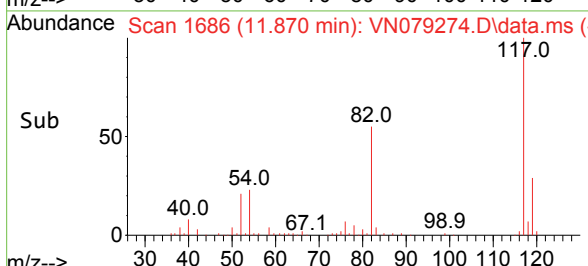
Tgt Ion:	95	Resp:	115056
Ion Ratio	Lower	Upper	
95	100		
174	75.4	0.0	143.8
176	71.2	0.0	135.8

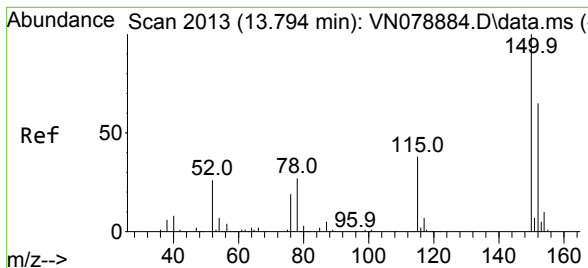


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. -0.001 min
 Lab File: VN079274.D
 Acq: 15 Sep 2023 16:06



Tgt Ion:	117	Resp:	289337
Ion Ratio	Lower	Upper	
117	100		
82	54.9	44.0	66.0
119	29.2	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

Instrument :

MSVOA_N

ClientSampleId :

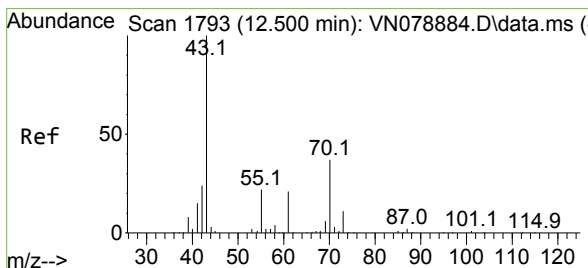
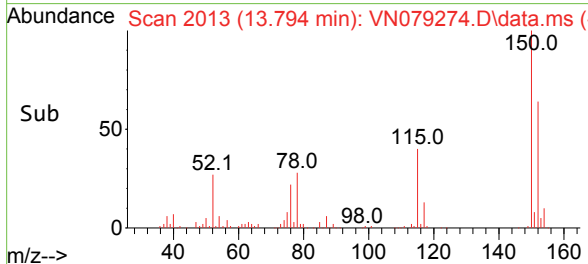
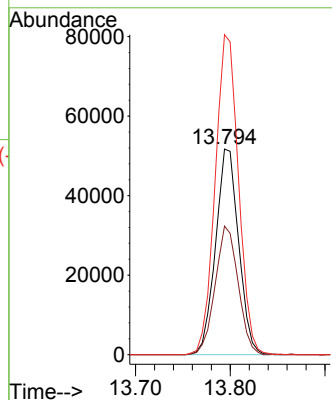
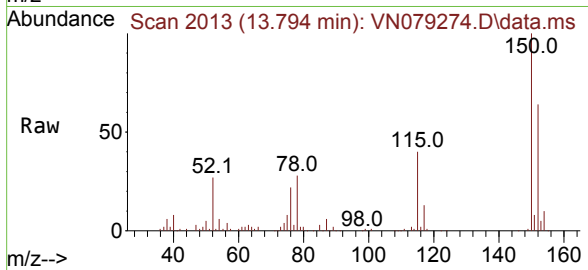
Tgt Ion:152 Resp: 87580

Ion Ratio Lower Upper

152 100

115 62.4 32.3 96.8

150 157.2 0.0 355.8



#74

N-ethyl acetate

Concen: 0.804 ug/l

RT: 12.500 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VN079274.D

Acq: 15 Sep 2023 16:06

Tgt Ion: 43 Resp: 2432

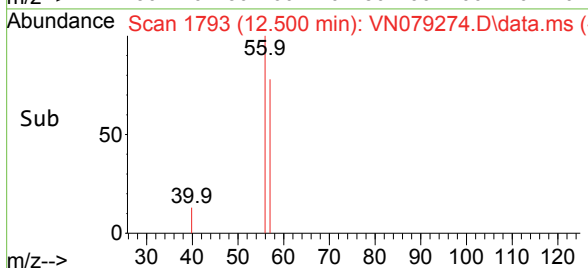
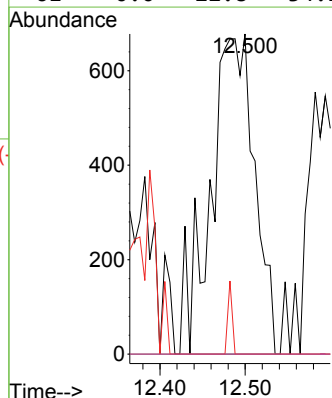
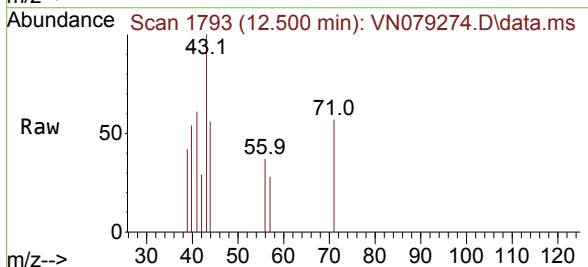
Ion Ratio Lower Upper

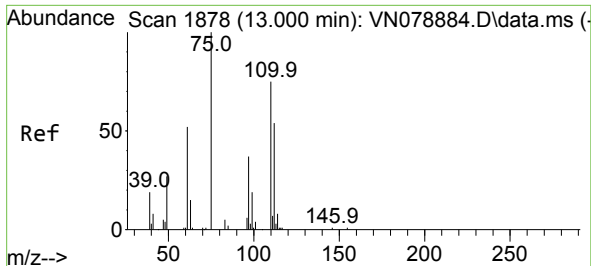
43 100

70 0.0 43.4 65.2#

55 2.3 21.4 32.0#

61 0.0 22.8 34.2#

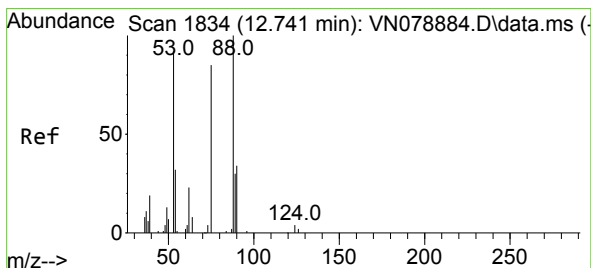
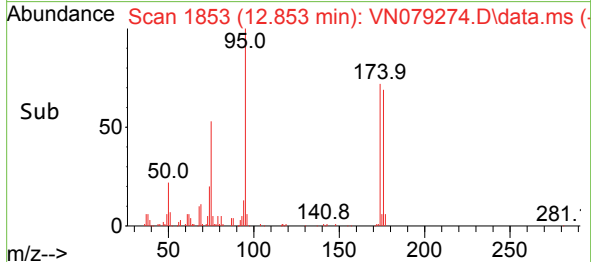
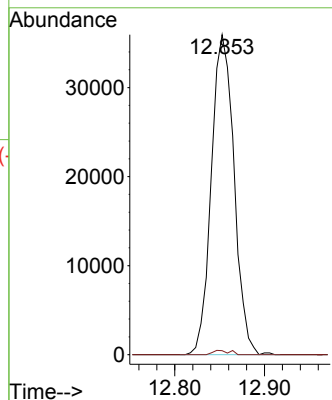
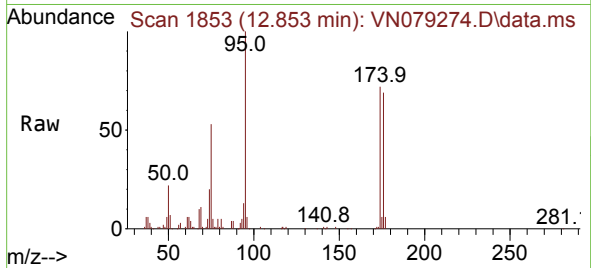




#76
1,2,3-Trichloropropane
Concen: 26.803 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 63266
Ion Ratio Lower Upper
75 100
77 1.0 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.687 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079274.D
Acq: 15 Sep 2023 16:06

Tgt Ion: 75 Resp: 63266
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

