

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091923\
 Data File : VN079301.D
 Acq On : 19 Sep 2023 14:28
 Operator : JC\MD
 Sample : 04477-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 19 15:41:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

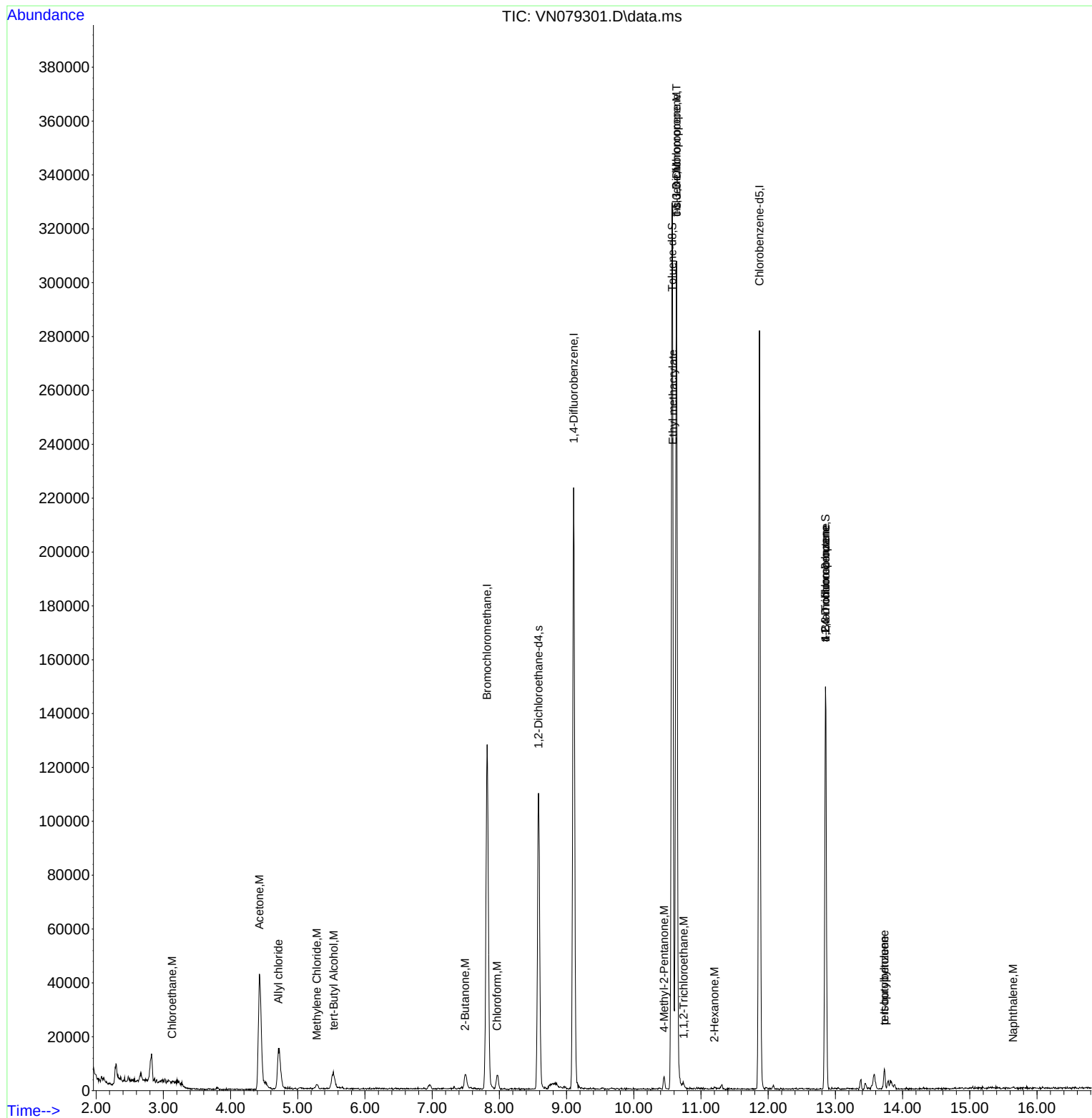
Internal Standards						
1) Bromochloromethane	7.818	128	43154	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	181119	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	161397	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	89270	27.534	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	91.767%
60) 4-Bromofluorobenzene	12.853	95	51484	21.649	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	72.167%
63) Toluene-d8	10.571	98	227369	30.144	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.467%
Target Compounds						
					Qvalue	
6) Chloroethane	3.130	64	939	0.642	ug/l #	50
15) Acetone	4.430	58	25933	95.794	ug/l	83
17) Allyl chloride	4.712	41	1354	0.555	ug/l	77
18) Methylene Chloride	5.283	84	497	0.244	ug/l #	53
23) tert-Butyl Alcohol	5.536	59	6096	15.270	ug/l #	100
25) Chloroform	7.965	83	5023	0.977	ug/l	92
30) 2-Butanone	7.488	43	9872	6.759	ug/l #	82
48) t-1,3-Dichloropropene	10.635	75	1801	0.532	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	1801	0.510	ug/l #	1
50) 1,1,2-Trichloroethane	10.741	97	1698	0.771	ug/l #	15
51) Ethyl methacrylate	10.582	69	949	0.279	ug/l #	59
58) 4-Methyl-2-Pentanone	10.453	43	3400	1.148	ug/l #	47
59) 2-Hexanone	11.200	43	444	0.213	ug/l #	44
62) Toluene	10.635	91	227971	24.259	ug/l	100
72) 1,2,3-Trichloropropane	12.853	75	28845	10.501	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	28845	29.825	ug/l #	14
79) tert-butylbenzene	13.729	119	3266	0.551	ug/l	59
82) p-Isopropyltoluene	13.729	119	3266	0.510	ug/l	97
91) Naphthalene	15.647	128	786	0.206	ug/l #	70

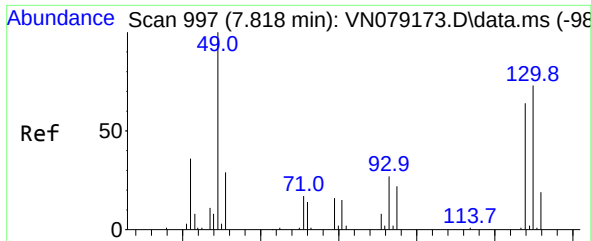
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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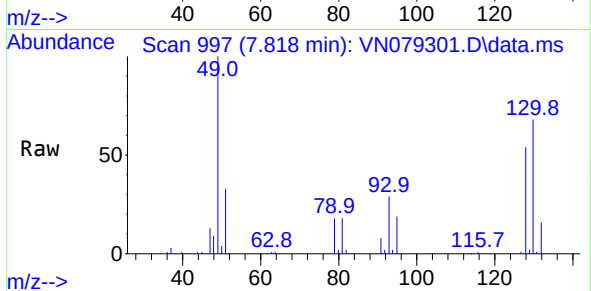
Quant Time: Sep 19 15:41:30 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 08 05:09:17 2023
Response via : Initial Calibration



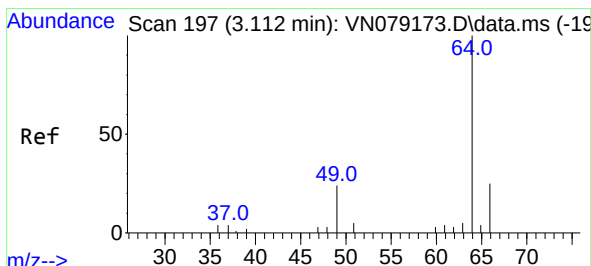
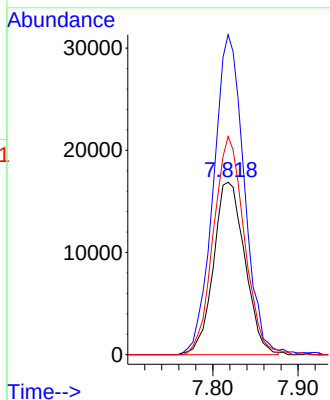
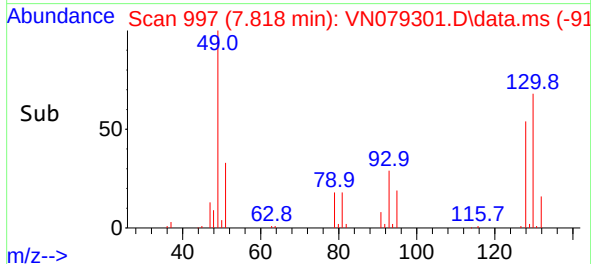


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.000 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

Instrument :
MSVOA_N
ClientSampleId :

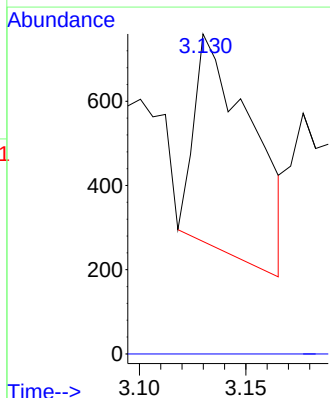
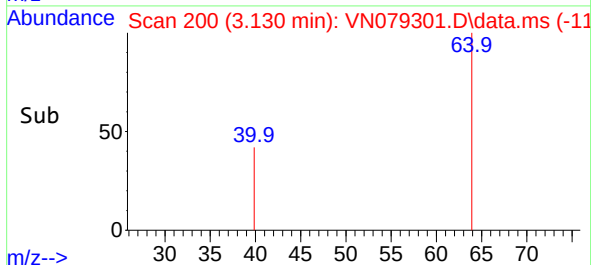
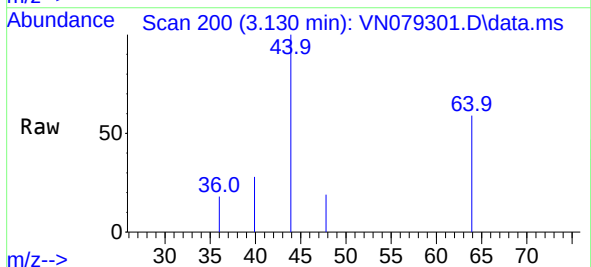


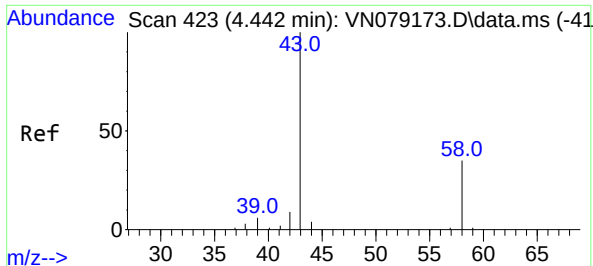
Tgt Ion:128 Resp: 43154
Ion Ratio Lower Upper
128 100
49 181.2 0.0 414.3
130 124.6 0.0 311.0



#6
Chloroethane
Concen: 0.642 ug/l
RT: 3.130 min Scan# 200
Delta R.T. 0.018 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

Tgt Ion: 64 Resp: 939
Ion Ratio Lower Upper
64 100
66 0.0 20.1 30.1#





#15

Acetone

Concen: 95.794 ug/l

RT: 4.430 min Scan# 41

Delta R.T. -0.012 min

Lab File: VN079301.D

Acq: 19 Sep 2023 14:28

Instrument :

MSVOA_N

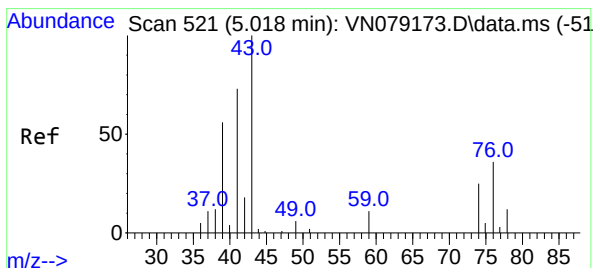
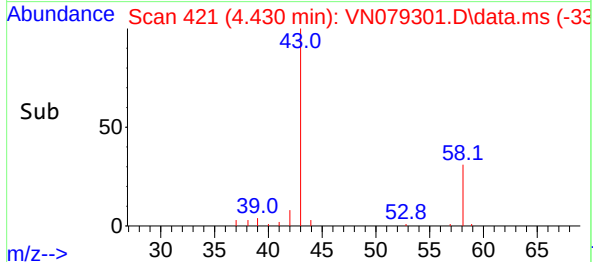
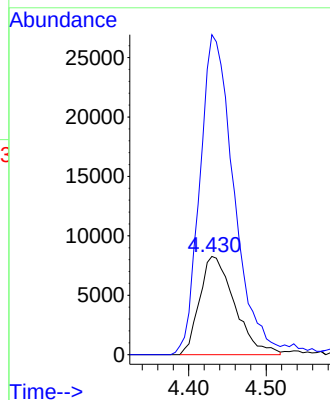
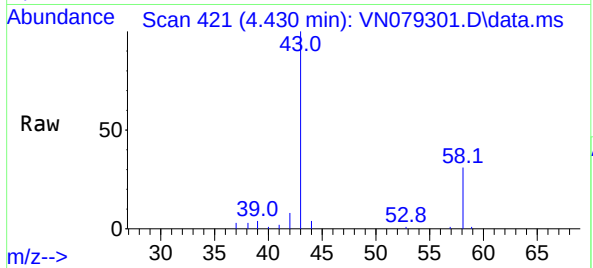
ClientSampleId :

Tgt Ion: 58 Resp: 25933

Ion Ratio Lower Upper

58 100

43 317.4 228.3 342.5



#17

Allyl chloride

Concen: 0.555 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.306 min

Lab File: VN079301.D

Acq: 19 Sep 2023 14:28

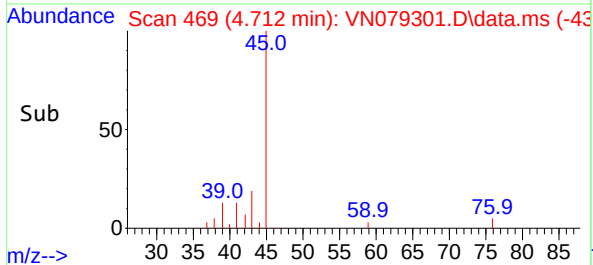
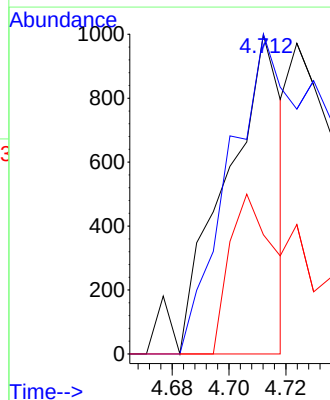
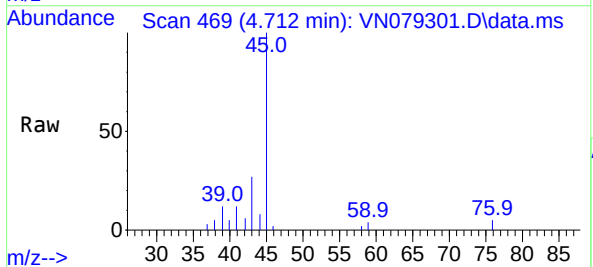
Tgt Ion: 41 Resp: 1354

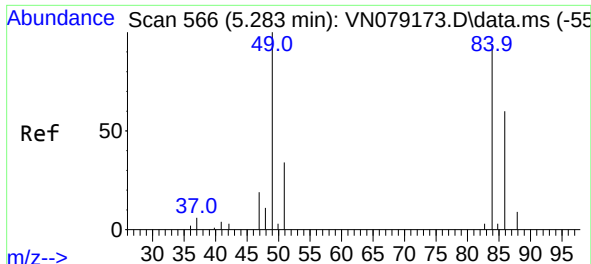
Ion Ratio Lower Upper

41 100

39 100.3 38.3 114.8

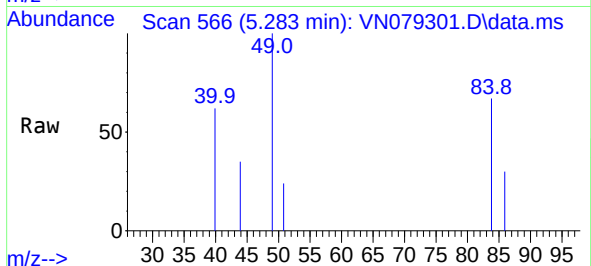
76 37.4 23.7 71.1





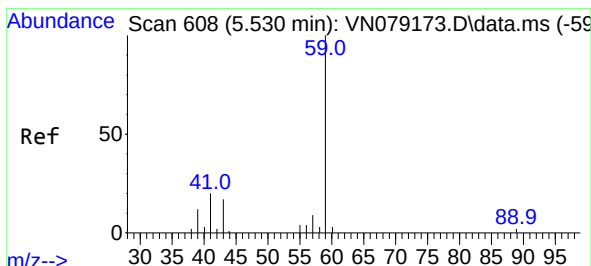
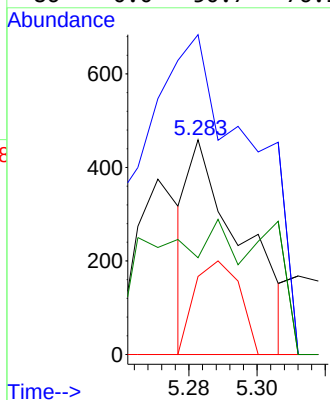
#18
Methylene Chloride
Concen: 0.244 ug/l
RT: 5.283 min Scan# 509
Delta R.T. -0.000 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 497

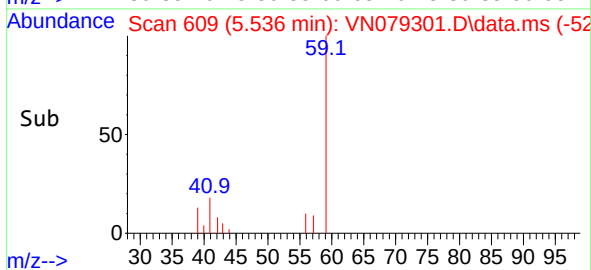
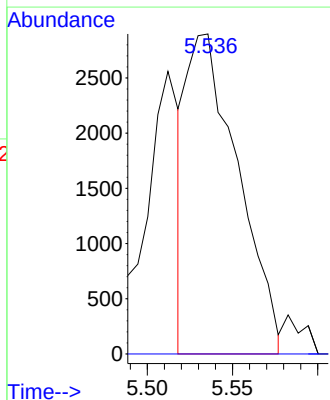
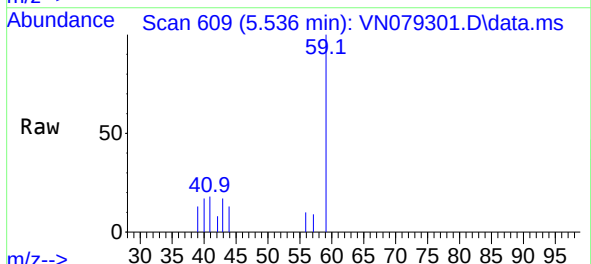
Ion	Ratio	Lower	Upper
84	100		
49	74.9	86.9	130.3#
51	54.4	28.6	43.0#
86	0.0	50.7	76.1#

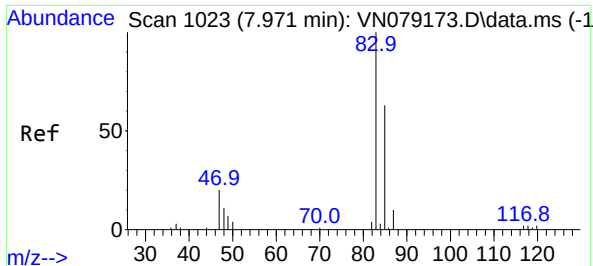


#23
tert-Butyl Alcohol
Concen: 15.270 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.006 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

Tgt Ion: 59 Resp: 6096

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#25

Chloroform

Concen: 0.977 ug/l

RT: 7.965 min Scan# 1023

Delta R.T. -0.006 min

Lab File: VN079301.D

Acq: 19 Sep 2023 14:28

Instrument :

MSVOA_N

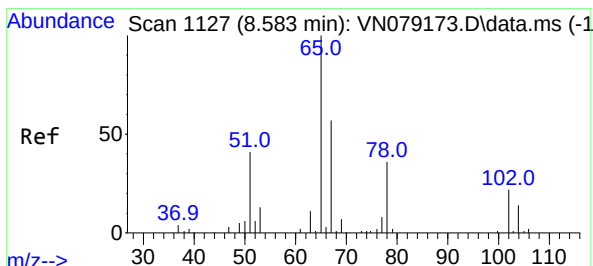
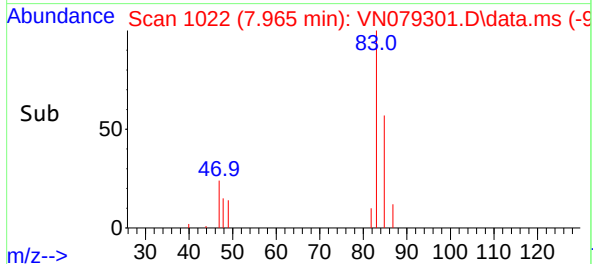
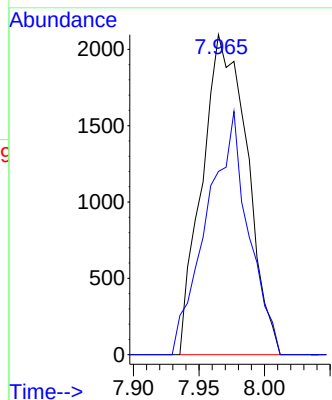
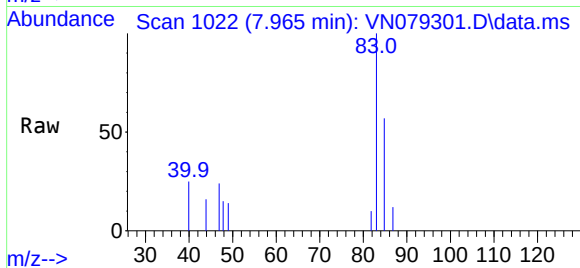
ClientSampleId :

Tgt Ion: 83 Resp: 5023

Ion Ratio Lower Upper

83 100

85 57.3 50.6 76.0



#27

1,2-Dichloroethane-d4

Concen: 27.534 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.001 min

Lab File: VN079301.D

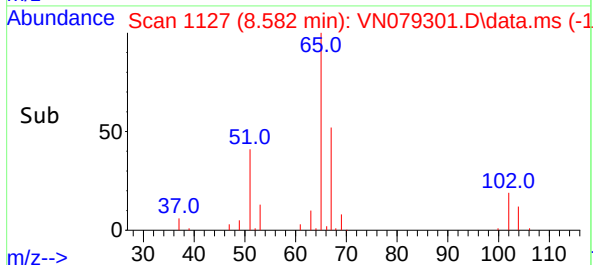
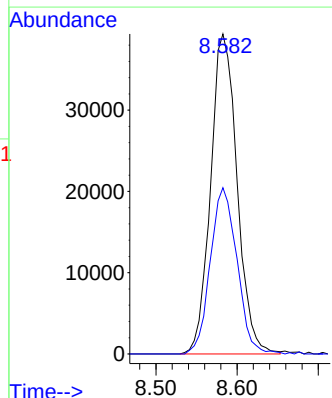
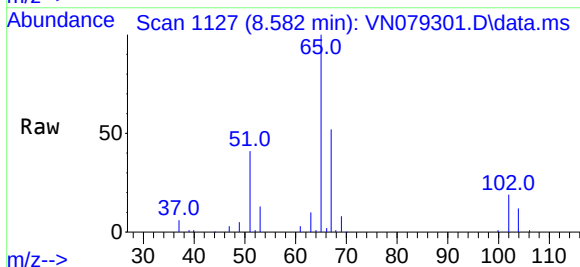
Acq: 19 Sep 2023 14:28

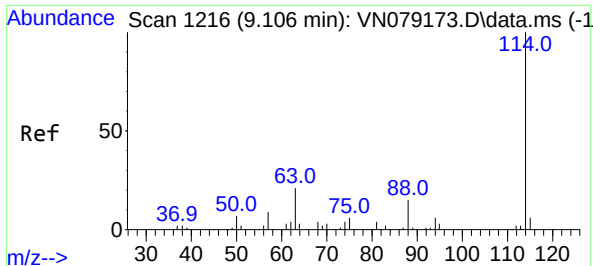
Tgt Ion: 65 Resp: 89270

Ion Ratio Lower Upper

65 100

67 52.0 44.4 66.6

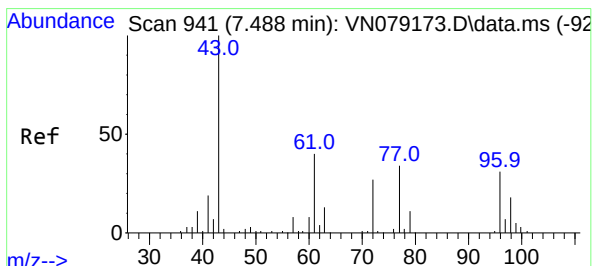
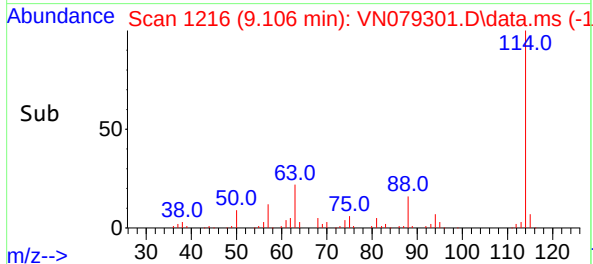
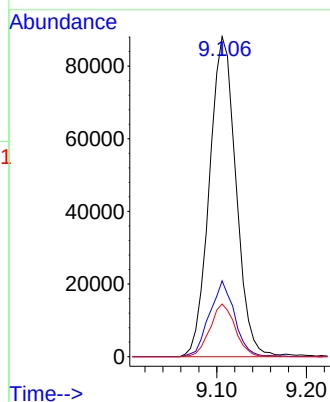
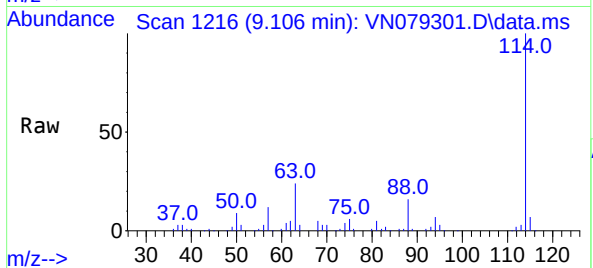




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

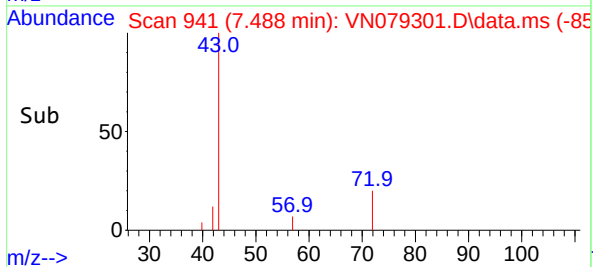
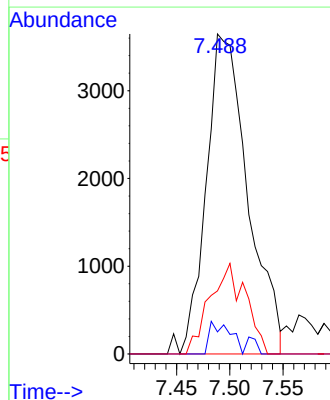
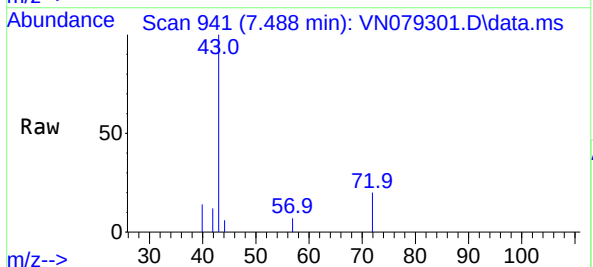
Instrument :
MSVOA_N
ClientSampleId :

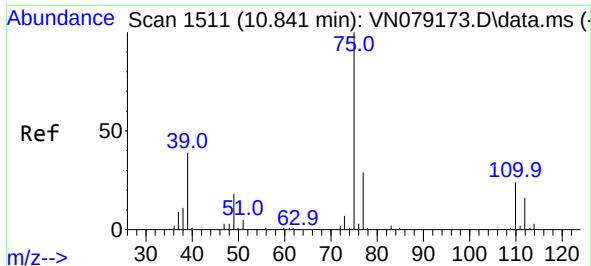
Tgt Ion:114 Resp: 181119
Ion Ratio Lower Upper
114 100
63 22.4 17.0 25.4
88 15.7 12.8 19.2



#30
2-Butanone
Concen: 6.759 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

Tgt Ion: 43 Resp: 9872
Ion Ratio Lower Upper
43 100
57 5.1 6.8 10.2#
72 17.4 22.4 33.6#

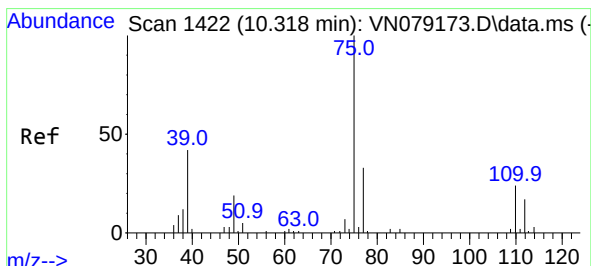
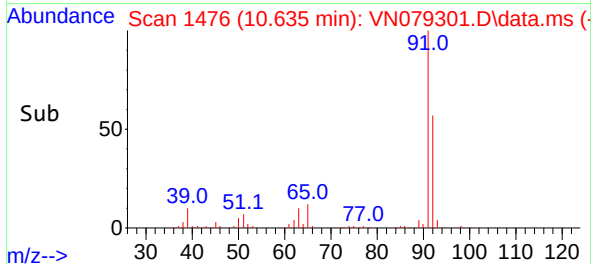
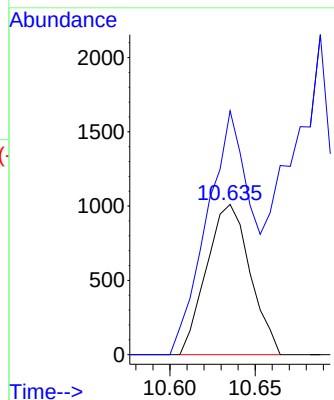
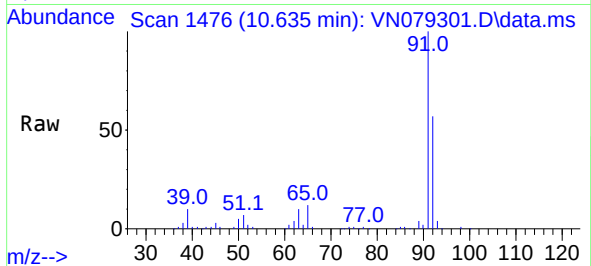




#48
t-1,3-Dichloropropene
Concen: 0.532 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.206 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

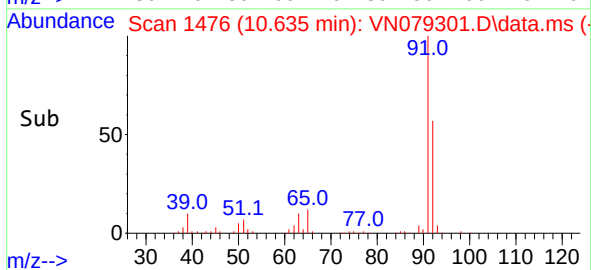
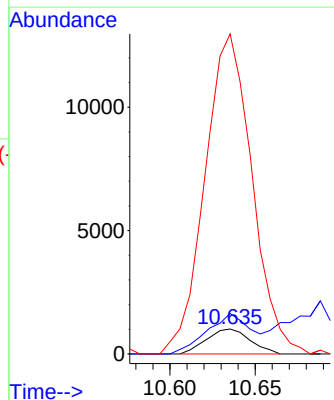
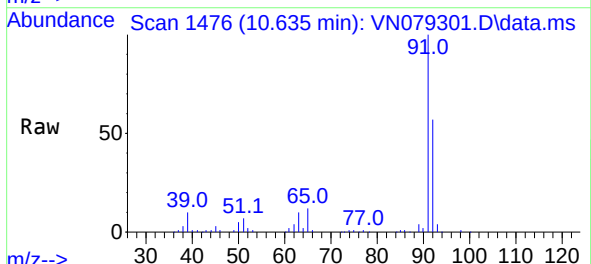
Instrument :
MSVOA_N
ClientSampleId :

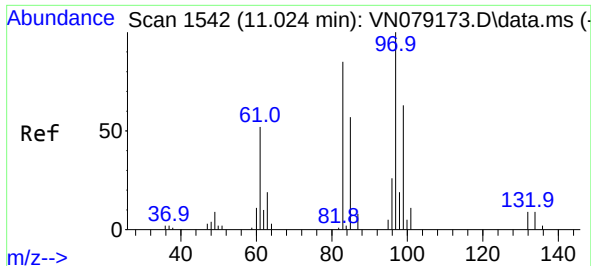
Tgt Ion: 75 Resp: 1801
Ion Ratio Lower Upper
75 100
77 144.3 22.9 34.3#



#49
cis-1,3-Dichloropropene
Concen: 0.510 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.317 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

Tgt Ion: 75 Resp: 1801
Ion Ratio Lower Upper
75 100
77 144.3 26.2 39.2#
39 1183.8 33.8 50.8#





#50

1,1,2-Trichloroethane

Concen: 0.771 ug/l

RT: 10.741 min Scan# 1467

Delta R.T. -0.283 min

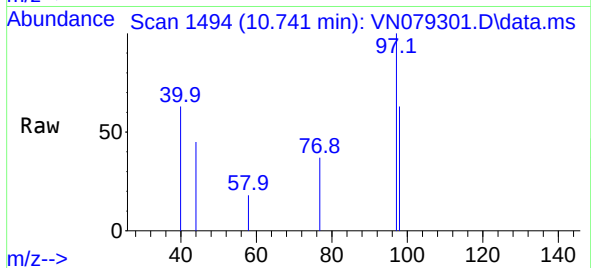
Lab File: VN079301.D

Acq: 19 Sep 2023 14:28

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 97 Resp: 1698

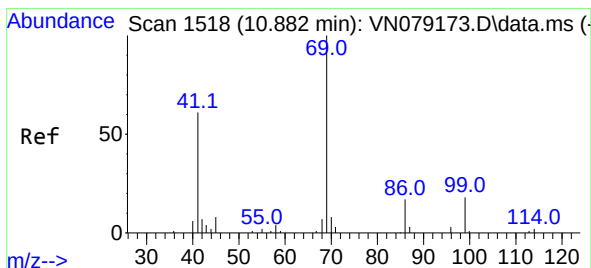
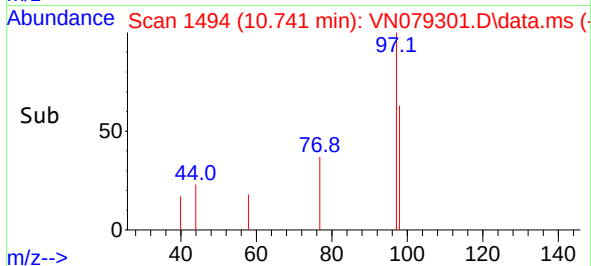
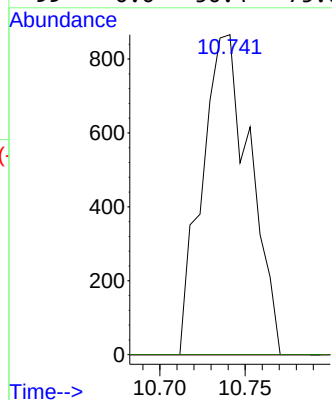
Ion Ratio Lower Upper

97 100

83 0.0 68.9 103.3#

85 0.0 45.3 67.9#

99 0.0 50.4 75.6#



#51

Ethyl methacrylate

Concen: 0.279 ug/l

RT: 10.582 min Scan# 1467

Delta R.T. -0.300 min

Lab File: VN079301.D

Acq: 19 Sep 2023 14:28

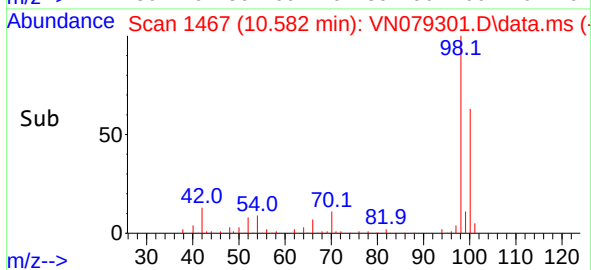
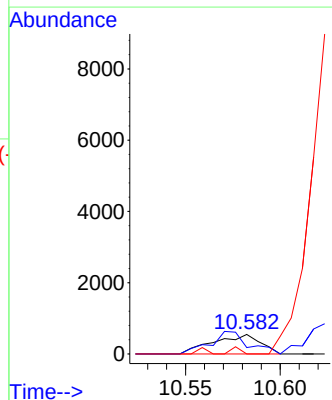
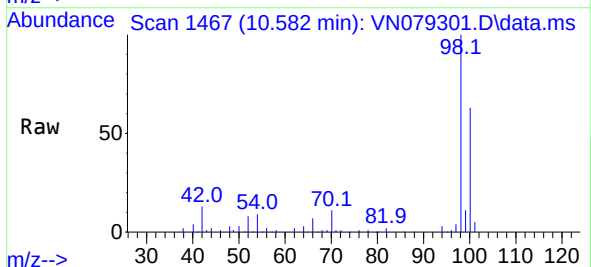
Tgt Ion: 69 Resp: 949

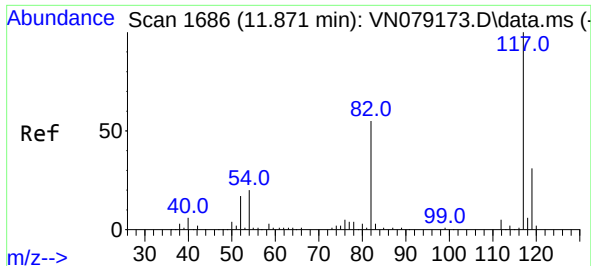
Ion Ratio Lower Upper

69 100

41 32.5 30.3 90.9

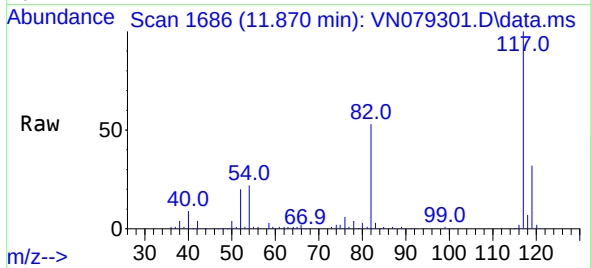
39 0.0 13.4 40.1#



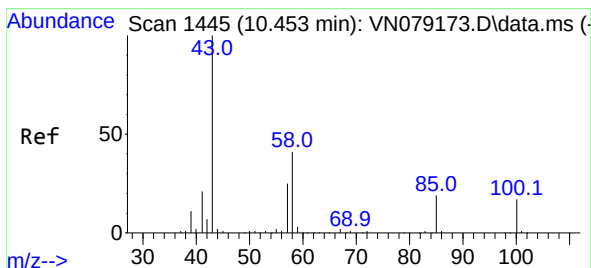
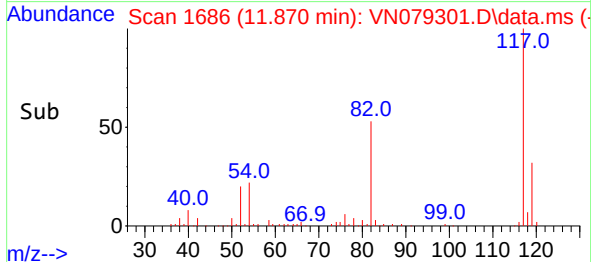
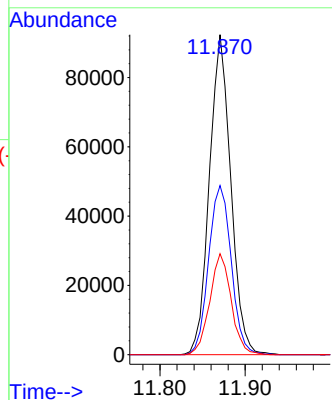


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.001 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

Instrument :
MSVOA_N
ClientSampleId :

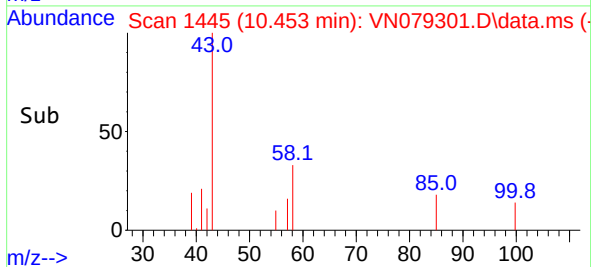
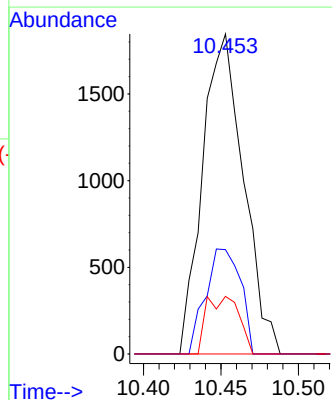
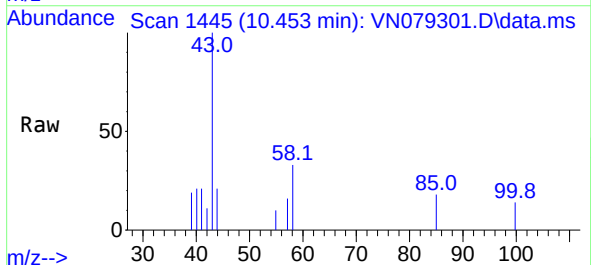


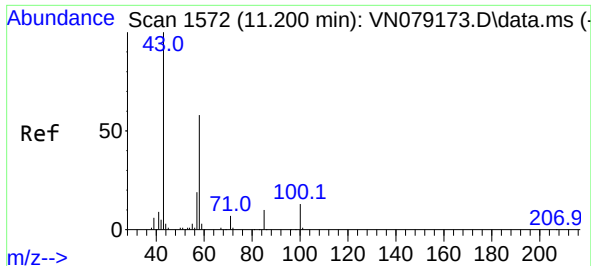
Tgt Ion:117 Resp: 161397
Ion Ratio Lower Upper
117 100
82 55.8 44.7 67.1
119 31.6 24.9 37.3



#58
4-Methyl-2-Pentanone
Concen: 1.148 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

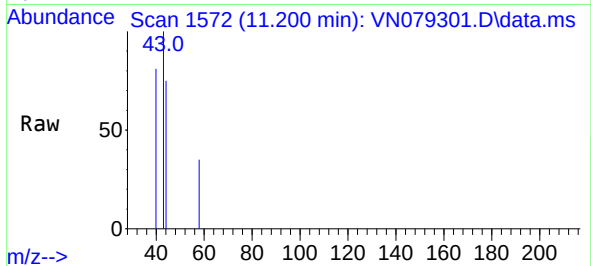
Tgt Ion: 43 Resp: 3400
Ion Ratio Lower Upper
43 100
58 0.0 33.6 50.4#
85 8.1 15.0 22.4#



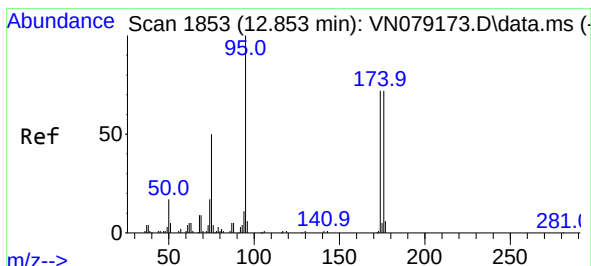
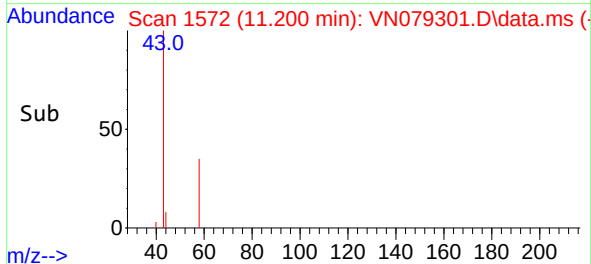
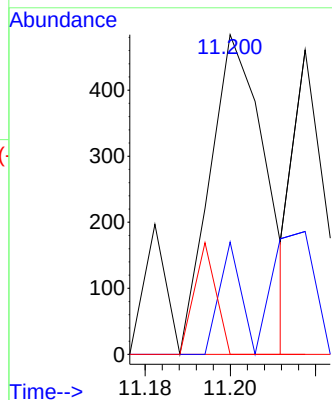


#59
2-Hexanone
Concen: 0.213 ug/l
RT: 11.200 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

Instrument :
MSVOA_N
ClientSampleId :

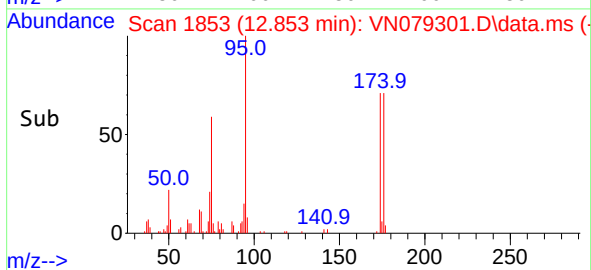
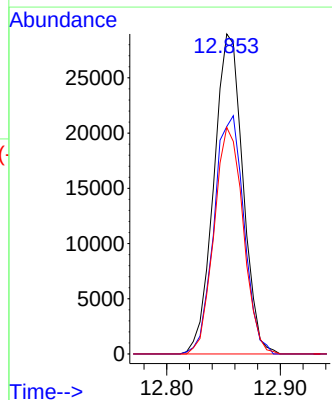
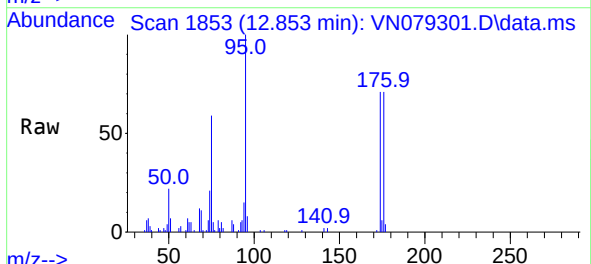


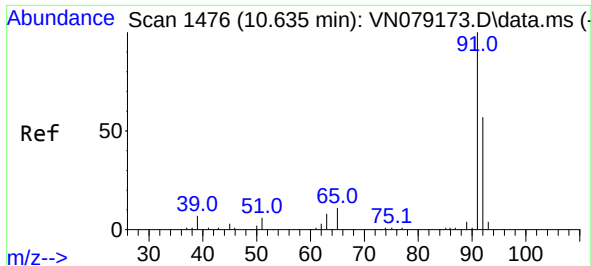
Tgt Ion: 43 Resp: 444
Ion Ratio Lower Upper
43 100
58 13.5 46.4 69.6#
57 0.0 15.3 22.9#



#60
4-Bromofluorobenzene
Concen: 21.649 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

Tgt Ion: 95 Resp: 51484
Ion Ratio Lower Upper
95 100
174 76.6 59.5 89.3
176 71.0 59.1 88.7

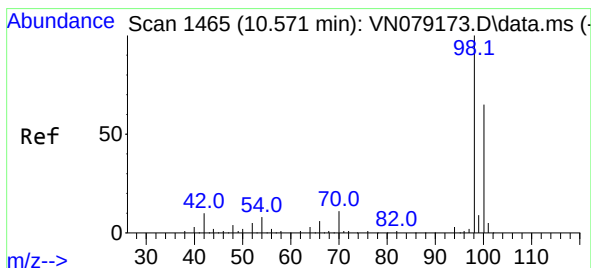
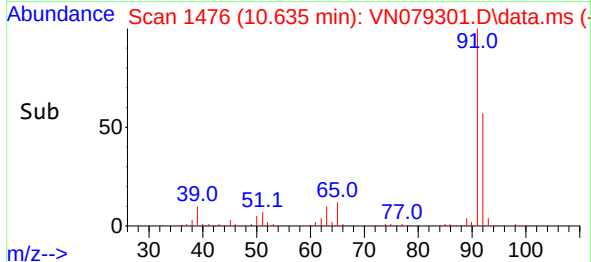
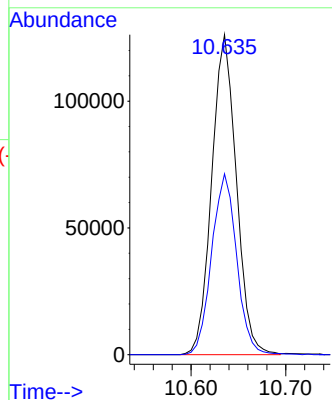
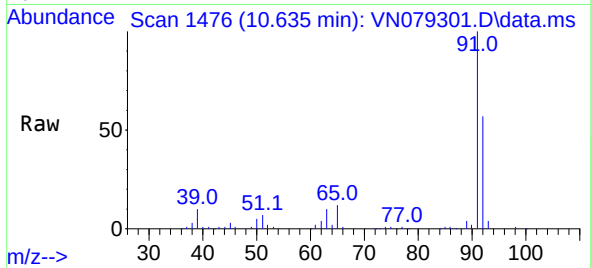




#62
Toluene
Concen: 24.259 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

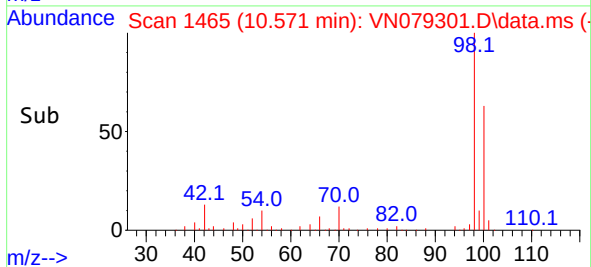
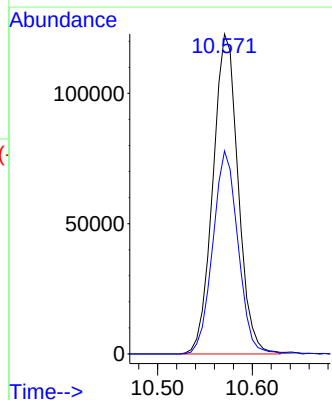
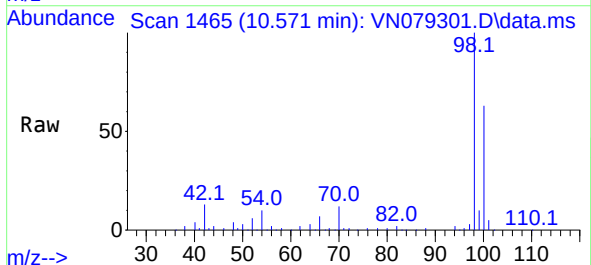
Instrument :
MSVOA_N
ClientSampleId :

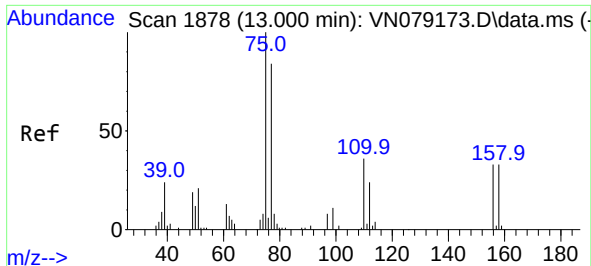
Tgt Ion: 91 Resp: 227971
Ion Ratio Lower Upper
91 100
92 57.4 45.7 68.5



#63
Toluene-d8
Concen: 30.144 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

Tgt Ion: 98 Resp: 227369
Ion Ratio Lower Upper
98 100
100 63.2 52.5 78.7

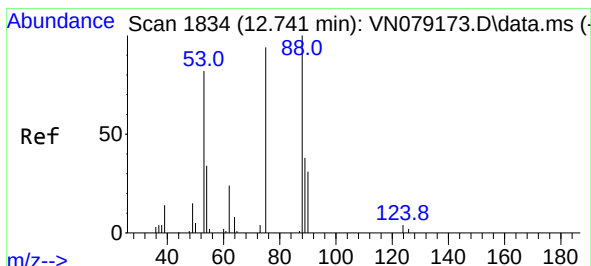
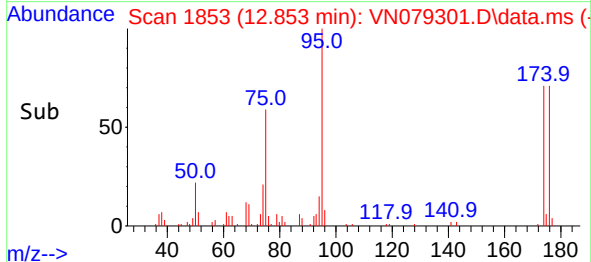
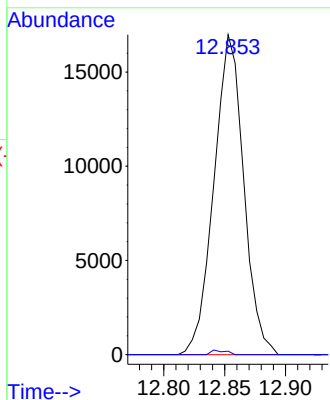
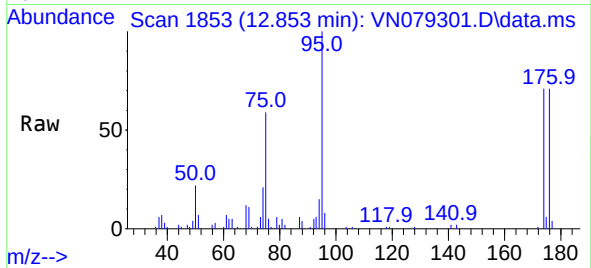




#72
1,2,3-Trichloropropane
Concen: 10.501 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

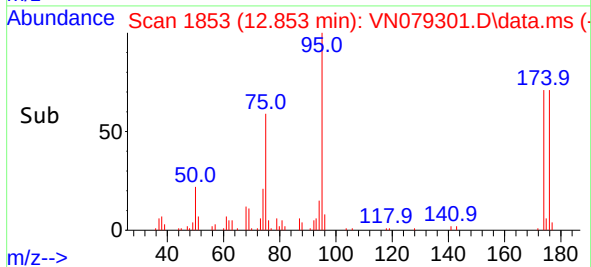
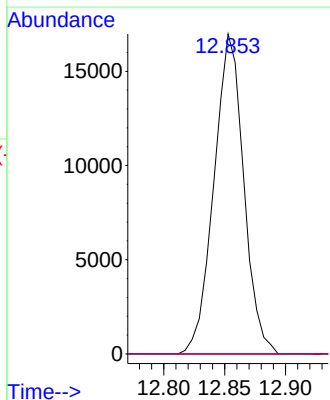
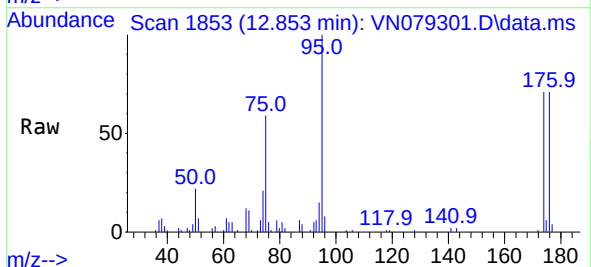
Instrument :
MSVOA_N
ClientSampleId :

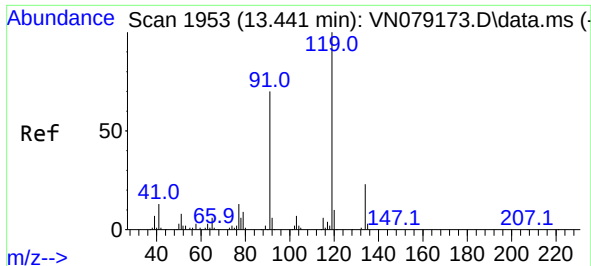
Tgt Ion: 75 Resp: 28845
Ion Ratio Lower Upper
75 100
77 0.7 0.0 252.2



#77
t-1,4-Dichloro-2-butene
Concen: 29.825 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079301.D
Acq: 19 Sep 2023 14:28

Tgt Ion: 75 Resp: 28845
Ion Ratio Lower Upper
75 100
53 0.0 44.1 132.4#
89 0.0 22.4 67.3#





#79

tert-butylbenzene

Concen: 0.551 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.288 min

Lab File: VN079301.D

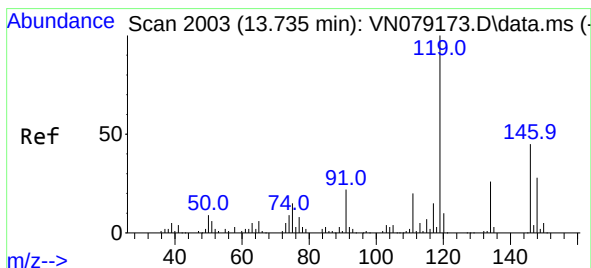
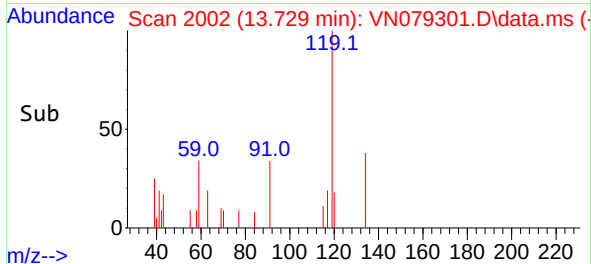
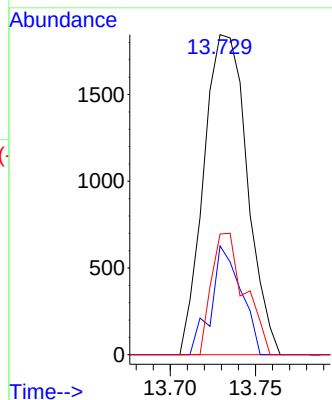
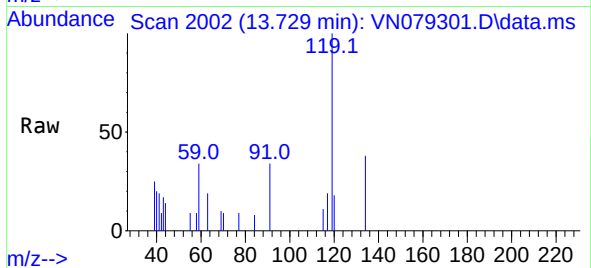
Acq: 19 Sep 2023 14:28

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:119	Resp:	3266
Ion Ratio	Lower	Upper
119	100	
91	23.5	0.0 130.8
134	29.0	0.0 48.8



#82

p-Isopropyltoluene

Concen: 0.510 ug/l

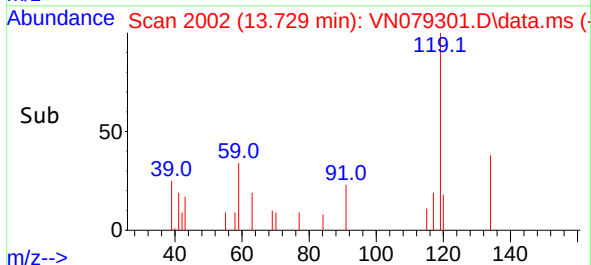
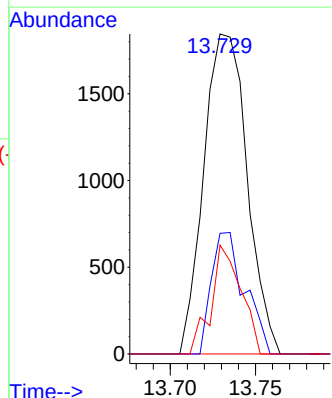
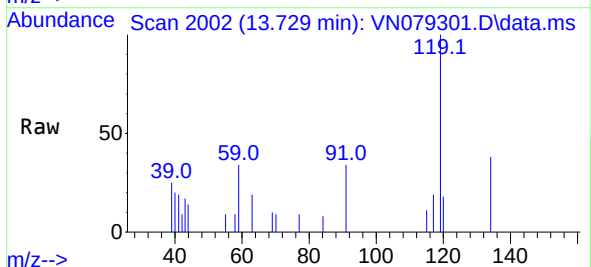
RT: 13.729 min Scan# 2002

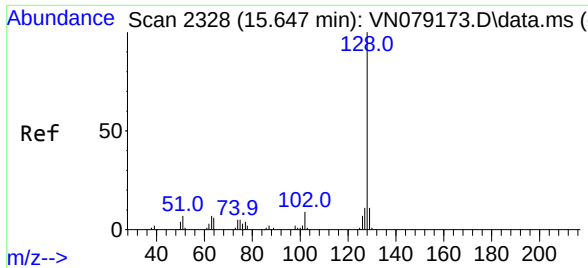
Delta R.T. -0.006 min

Lab File: VN079301.D

Acq: 19 Sep 2023 14:28

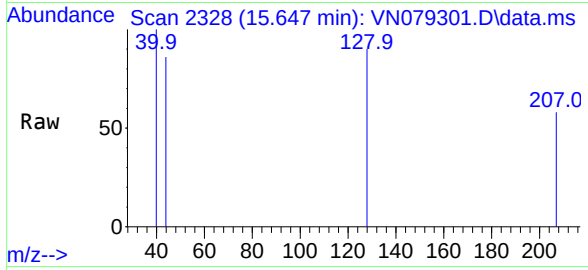
Tgt Ion:119	Resp:	3266
Ion Ratio	Lower	Upper
119	100	
134	29.0	0.0 53.8
91	23.5	0.0 48.0





#91
 Naphthalene
 Concen: 0.206 ug/l
 RT: 15.647 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN079301.D
 Acq: 19 Sep 2023 14:28

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:128 Resp: 786

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.1	15.1#
129	0.0	8.5	12.7#

