

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052323\
 Data File : VN077834.D
 Acq On : 24 May 2023 02:38
 Operator : JC\MD
 Sample : PB152982ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152982ZHE#01

Quant Time: May 24 05:58:52 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)

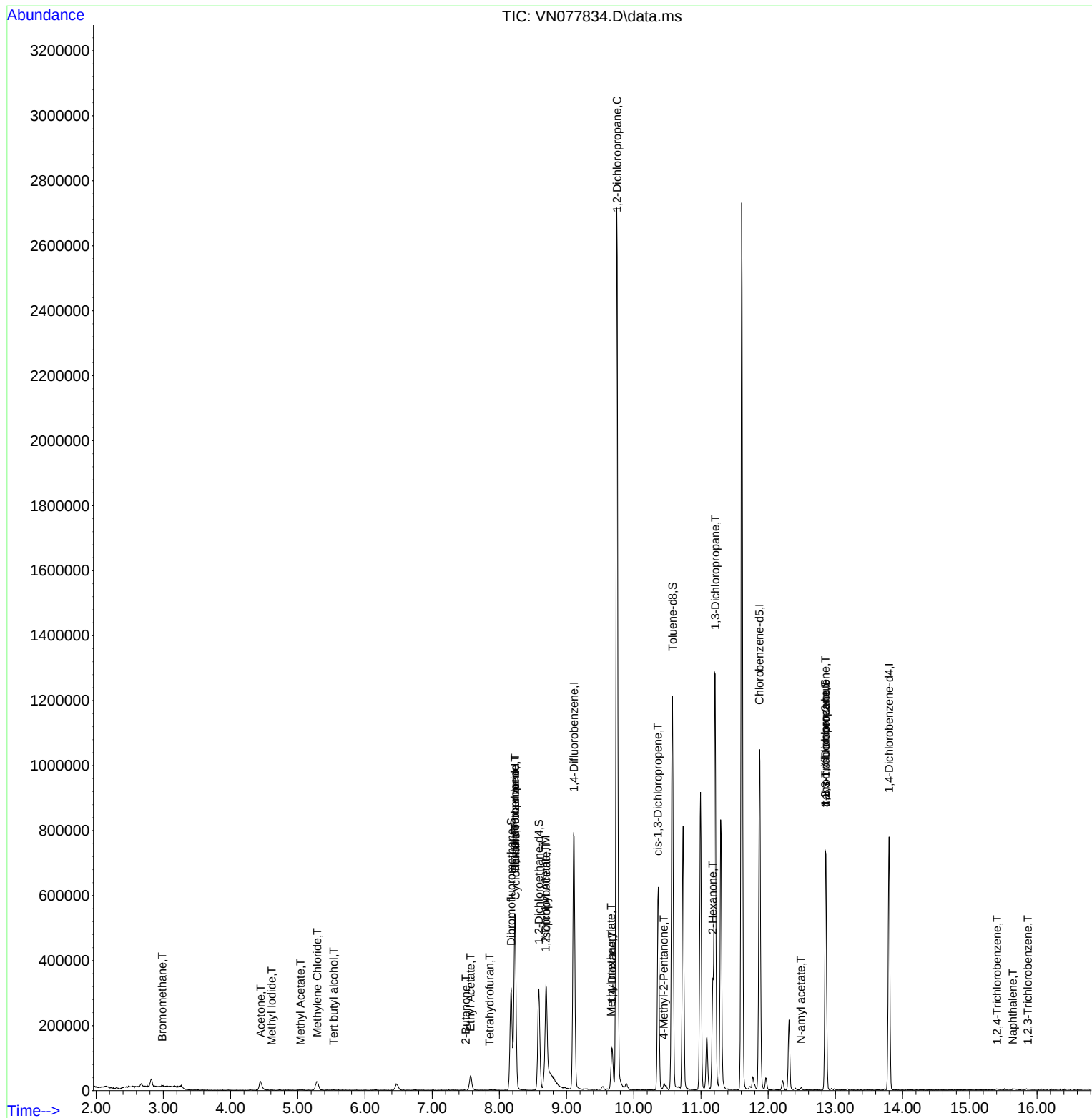
Internal Standards						
1) Pentafluorobenzene	8.235	168	390374	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	703436	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	638263	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	209779	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	256399	43.896	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.800%		
35) Dibromofluoromethane	8.177	113	222171	48.435	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.860%		
50) Toluene-d8	10.576	98	879973	49.840	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.680%		
62) 4-Bromofluorobenzene	12.853	95	267908	42.964	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	85.920%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1194	Below Cal	#	42
5) Bromomethane	2.983	94	2625	0.634	ug/l #	69
10) Methyl Iodide	4.612	142	1172	0.227	ug/l #	86
11) Tert butyl alcohol	5.536	59	749	0.929	ug/l #	72
13) Acrolein	4.212	56	346	Below Cal	#	16
16) Acetone	4.447	43	50265	27.353	ug/l	100
18) Methyl Acetate	5.042	43	2623	0.340	ug/l #	56
20) Methylene Chloride	5.289	84	22466	2.833	ug/l	93
25) 2-Butanone	7.500	43	5192	1.806	ug/l #	69
29) Tetrahydrofuran	7.853	42	1004	0.533	ug/l #	54
31) Cyclohexane	8.241	56	9365	1.180	ug/l #	56
36) 1,1-Dichloropropene	8.230	75	33575	5.004	ug/l #	48
37) Ethyl Acetate	7.571	43	69475	11.618	ug/l	97
38) Carbon Tetrachloride	8.235	117	40309	5.950	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	2764	0.384	ug/l #	73
43) Isopropyl Acetate	8.694	43	488462	50.008	ug/l #	72
45) 1,2-Dichloropropane	9.753	63	3842	0.761	ug/l #	45
48) Methyl methacrylate	9.665	41	7346	1.586	ug/l #	3
49) 1,4-Dioxane	9.677	88	174	1.989	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	10989	1.893	ug/l	98
54) cis-1,3-Dichloropropene	10.359	75	123477	15.294	ug/l #	65
57) 1,3-Dichloropropane	11.212	76	15513	1.849	ug/l #	45
59) 2-Hexanone	11.176	43	257452	59.949	ug/l #	19
74) N-amyl acetate	12.488	43	4451	0.666	ug/l #	40
76) 1,2,3-Trichloropropane	12.853	75	143005	27.220	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	143005	87.010	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.406	180	926	0.222	ug/l	88
95) Naphthalene	15.641	128	3427	0.239	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.864	180	932	0.228	ug/l #	13

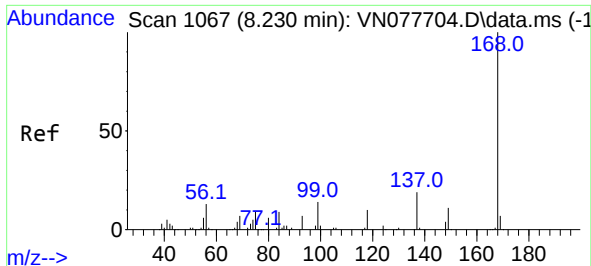
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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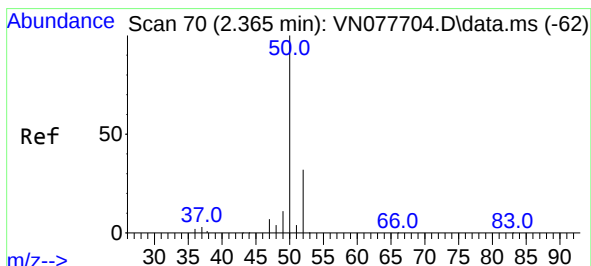
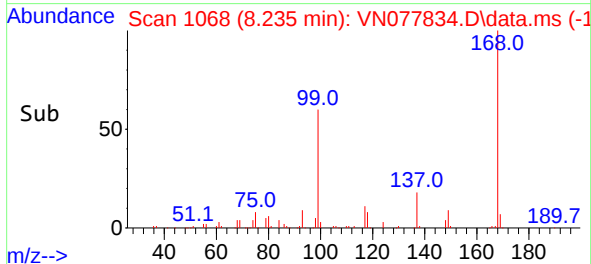
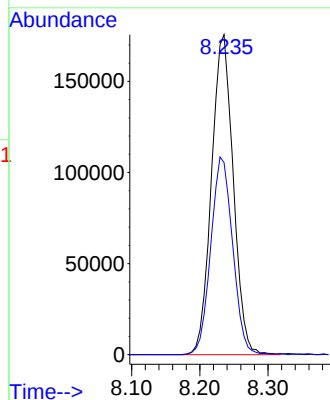
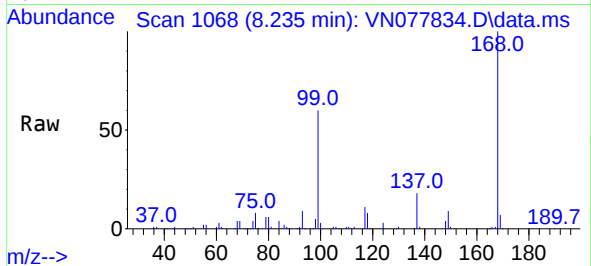




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

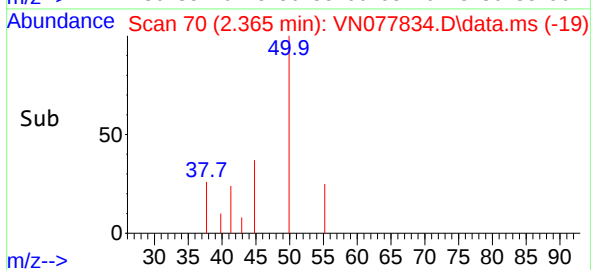
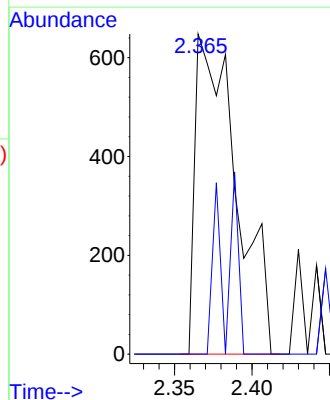
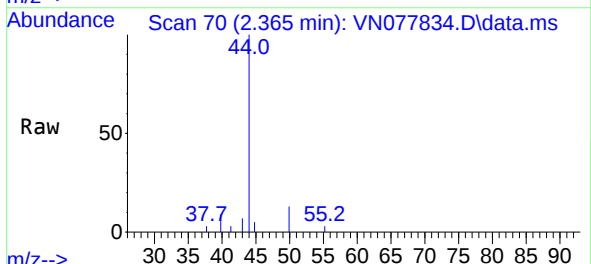
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

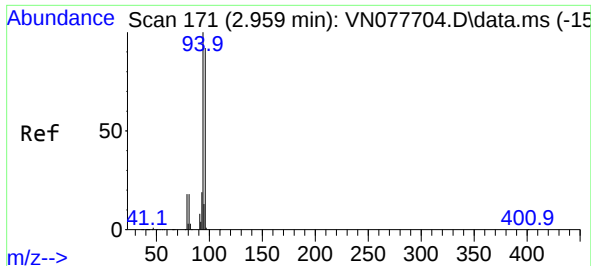
Tgt Ion:168 Resp: 390374
Ion Ratio Lower Upper
168 100
99 60.0 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.000 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion: 50 Resp: 1194
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

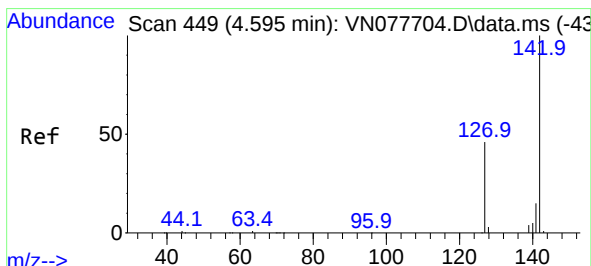
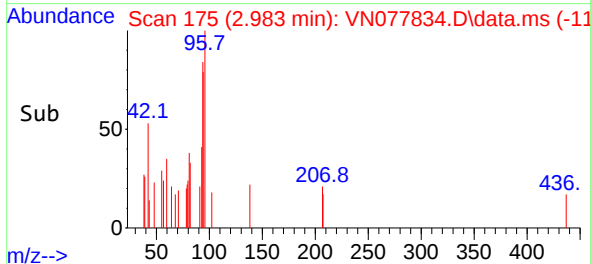
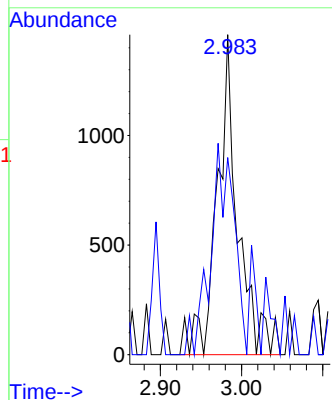
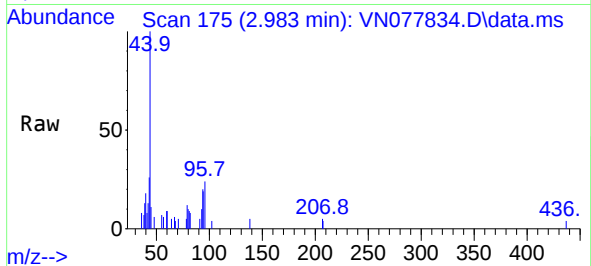




#5
Bromomethane
Concen: 0.634 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.036 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

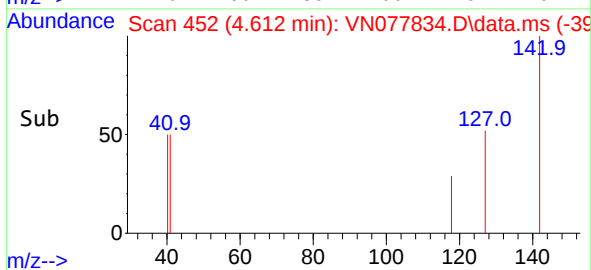
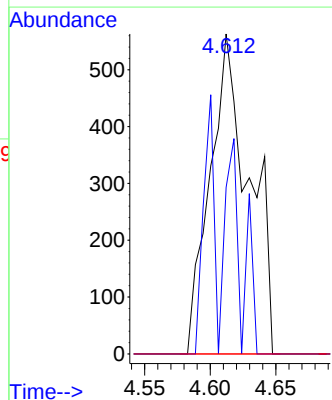
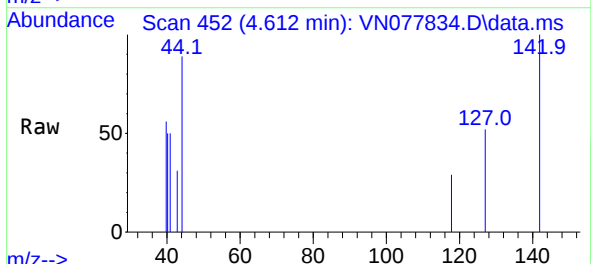
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

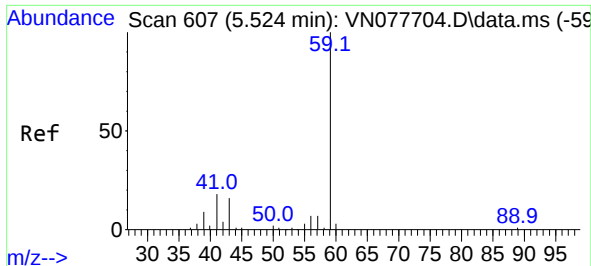
Tgt Ion: 94 Resp: 2625
Ion Ratio Lower Upper
94 100
96 61.6 73.1 109.7#



#10
Methyl Iodide
Concen: 0.227 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.018 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion: 142 Resp: 1172
Ion Ratio Lower Upper
142 100
127 52.0 37.6 56.4
141 0.0 11.4 17.0#





#11

Tert butyl alcohol

Concen: 0.929 ug/l

RT: 5.536 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN077834.D

Acq: 24 May 2023 02:38

Instrument :

MSVOA_N

ClientSampleId :

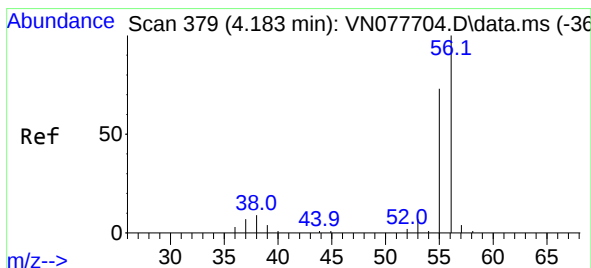
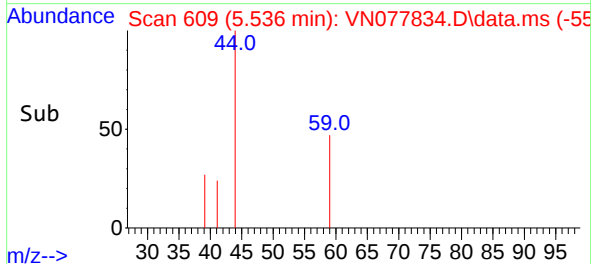
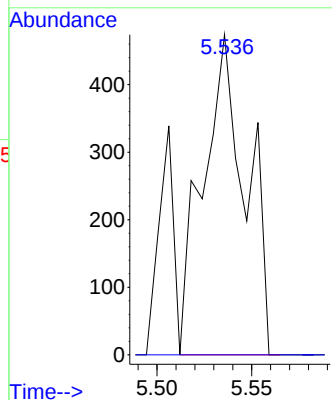
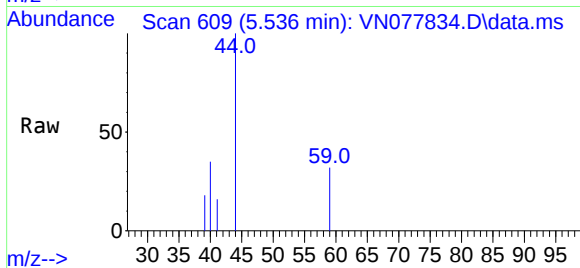
PB152982ZHE#01

Tgt Ion: 59 Resp: 749

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: Below Cal

RT: 4.212 min Scan# 384

Delta R.T. 0.023 min

Lab File: VN077834.D

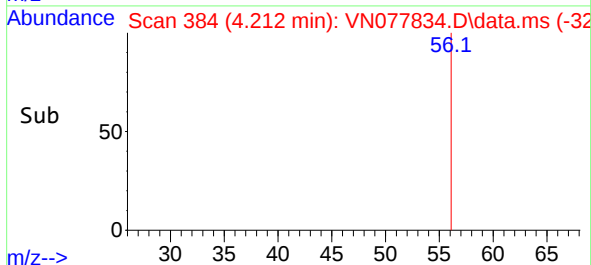
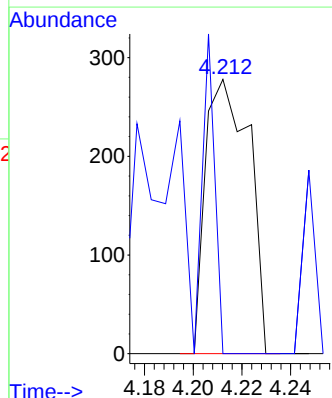
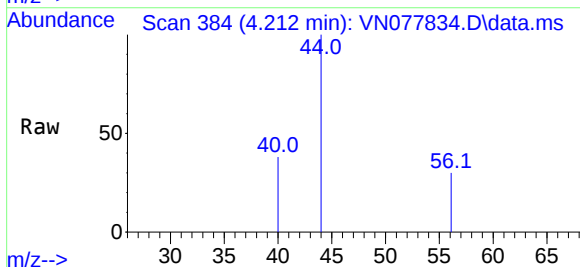
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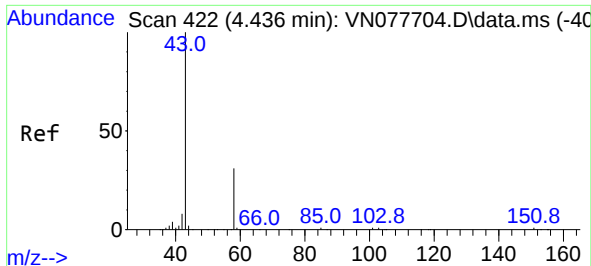
Tgt Ion: 56 Resp: 346

Ion Ratio Lower Upper

56 100

55 0.0 54.5 81.7#

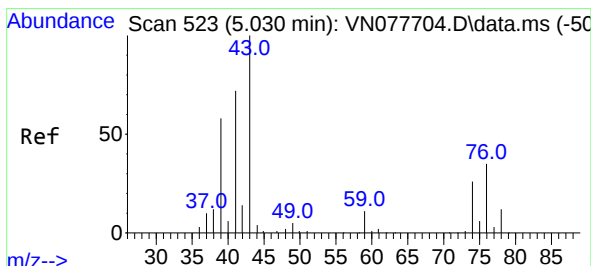
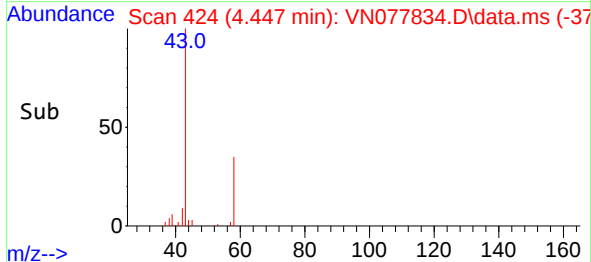
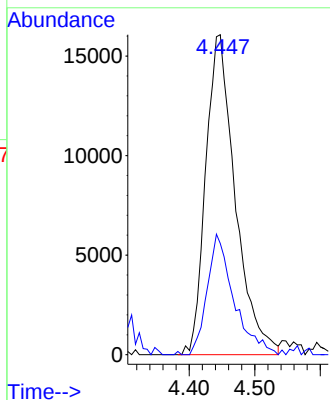
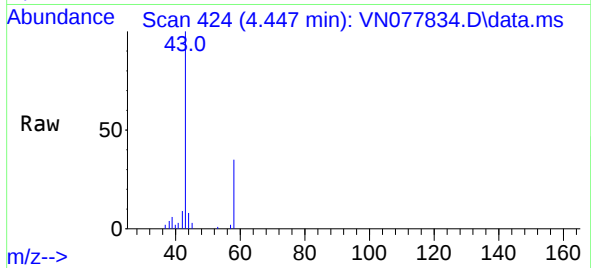




#16
Acetone
Concen: 27.353 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

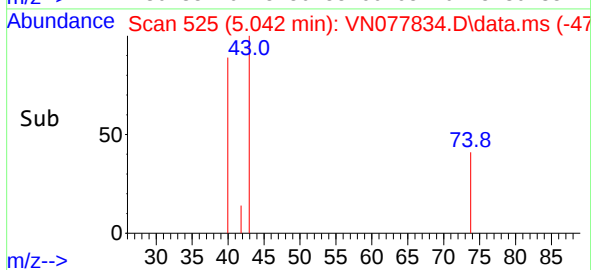
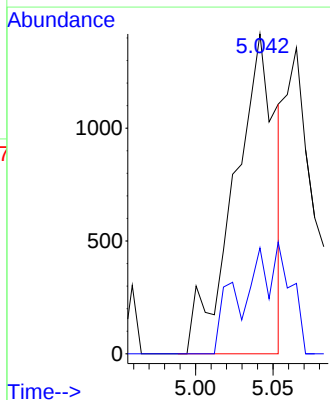
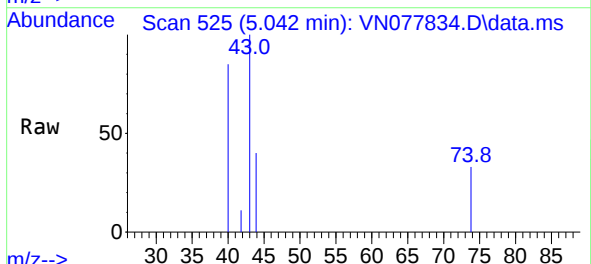
Instrument :
MSVOA_N
ClientSampleId :
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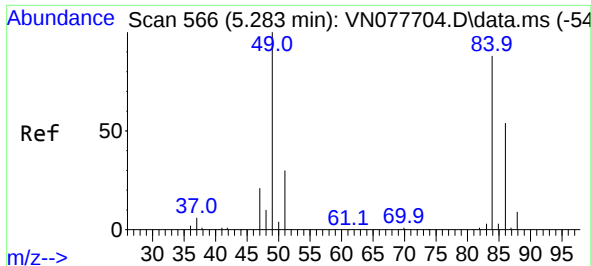
Tgt Ion: 43 Resp: 50265
Ion Ratio Lower Upper
43 100
58 34.7 28.0 42.0



#18
Methyl Acetate
Concen: 0.340 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.006 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion: 43 Resp: 2623
Ion Ratio Lower Upper
43 100
74 7.8 26.2 39.4#

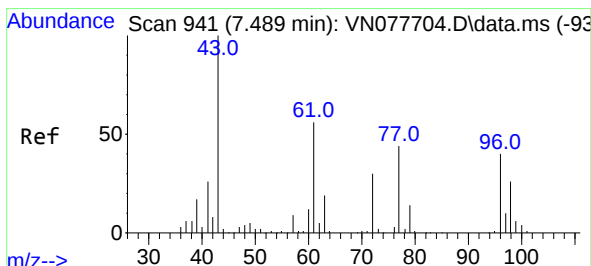
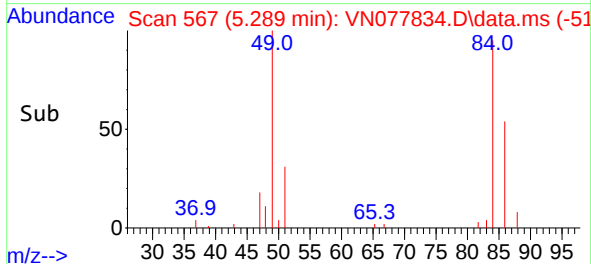
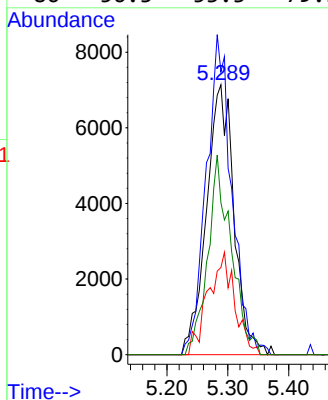
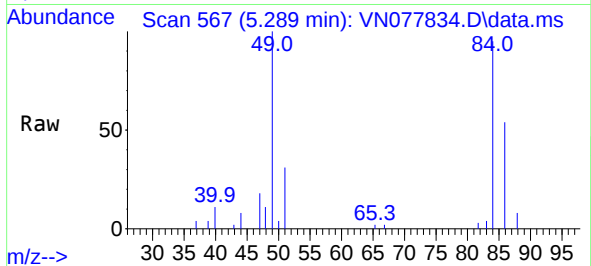




#20
Methylene Chloride
Concen: 2.833 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

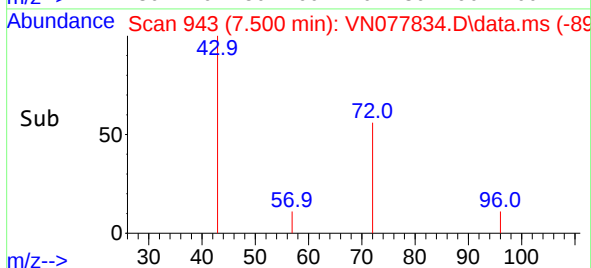
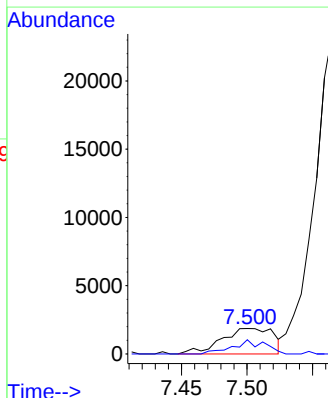
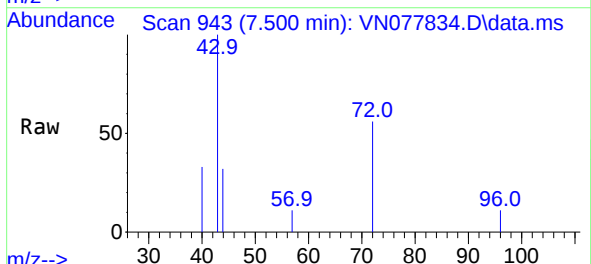
Instrument :
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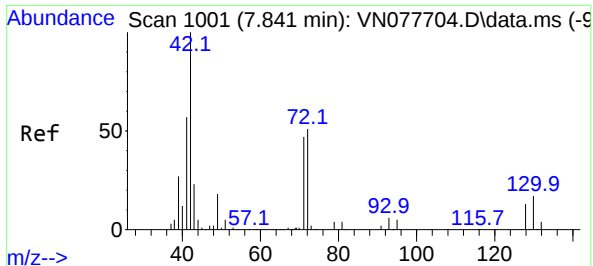
Tgt Ion:	84	Resp:	22466
Ion	Ratio	Lower	Upper
84	100		
49	104.8	79.7	119.5
51	32.3	25.2	37.8
86	56.3	53.3	79.9



#25
2-Butanone
Concen: 1.806 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion:	43	Resp:	5192
Ion	Ratio	Lower	Upper
43	100		
72	56.0	30.2	45.2#



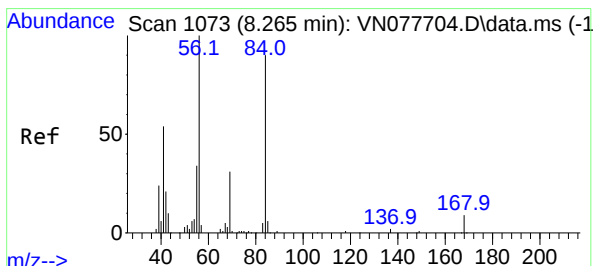
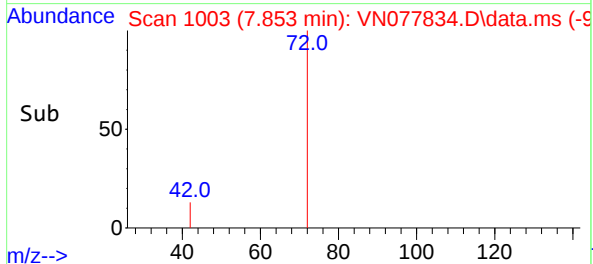
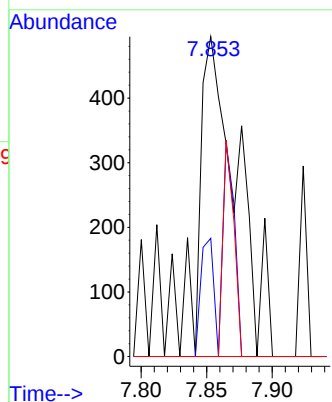
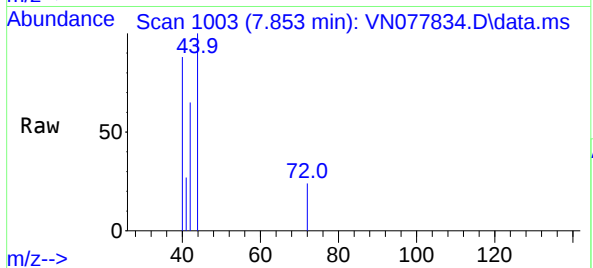


#29
Tetrahydrofuran
Concen: 0.533 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.012 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

Tgt Ion: 42 Resp: 1004

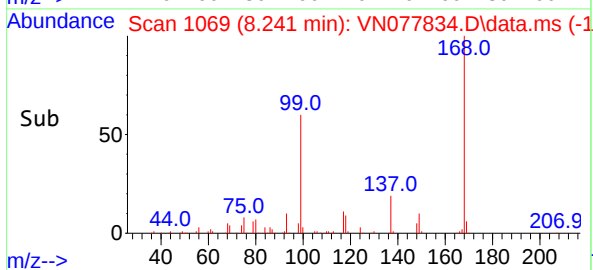
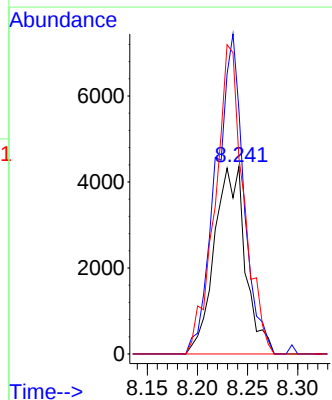
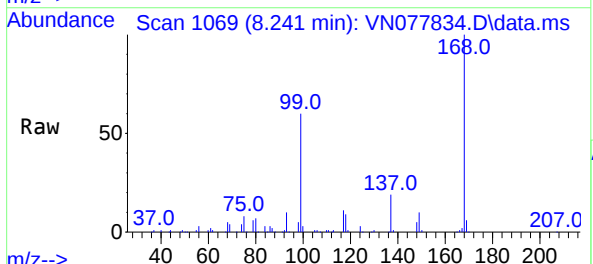
Ion	Ratio	Lower	Upper
42	100		
72	32.3	49.8	74.6#
71	19.1	47.4	71.2#

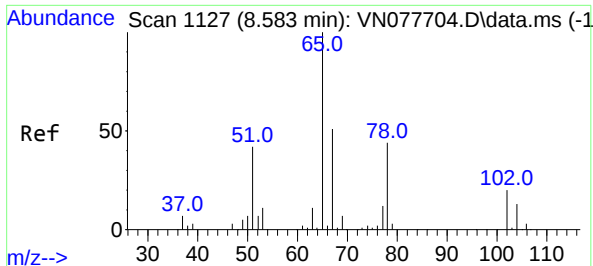


#31
Cyclohexane
Concen: 1.180 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. -0.024 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion: 56 Resp: 9365

Ion	Ratio	Lower	Upper
56	100		
69	130.3	26.8	40.2#
84	104.6	81.8	122.6

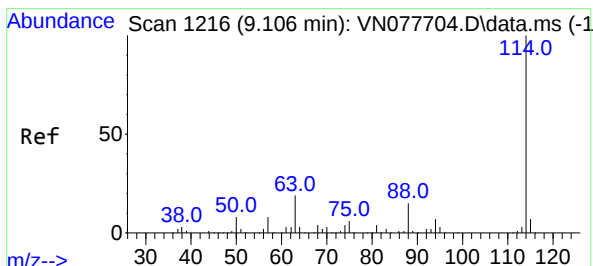
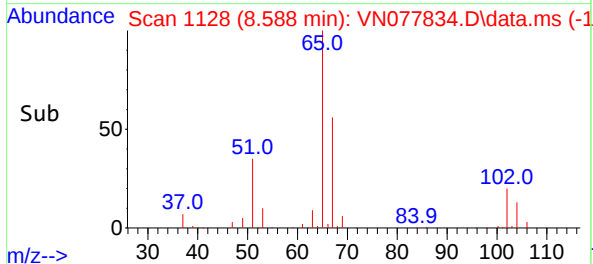
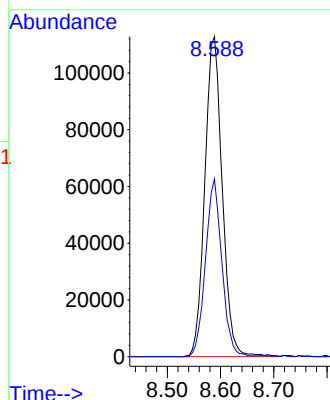
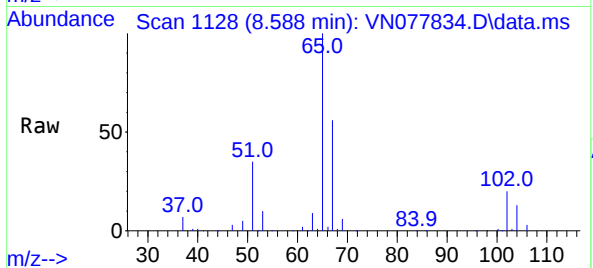




#33
1,2-Dichloroethane-d4
Concen: 43.896 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

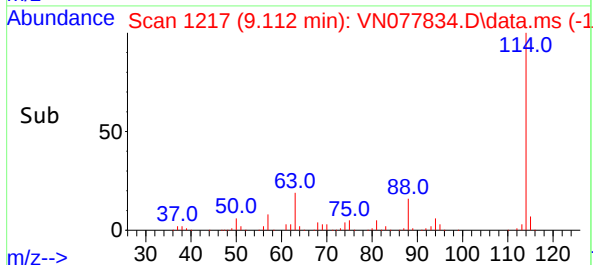
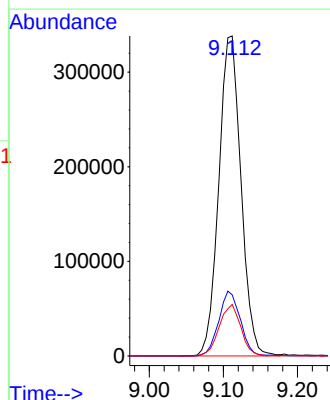
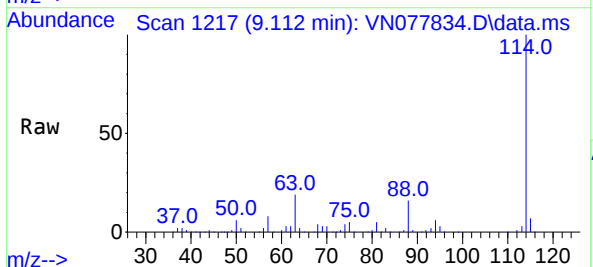
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

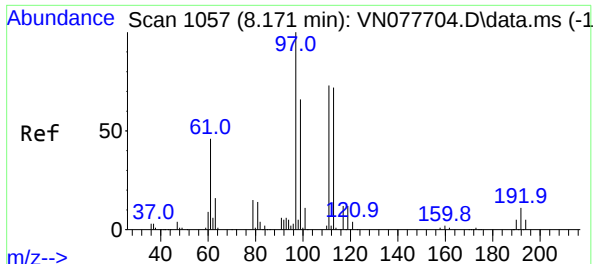
Tgt Ion: 65 Resp: 256399
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion: 114 Resp: 703436
Ion Ratio Lower Upper
114 100
63 19.1 0.0 36.4
88 16.1 0.0 30.6

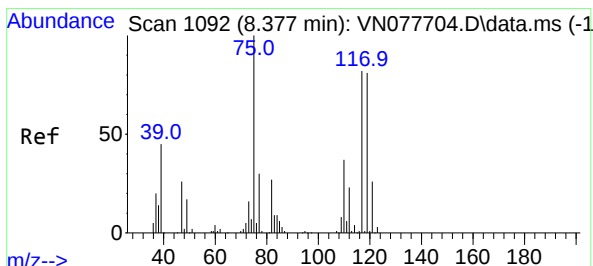
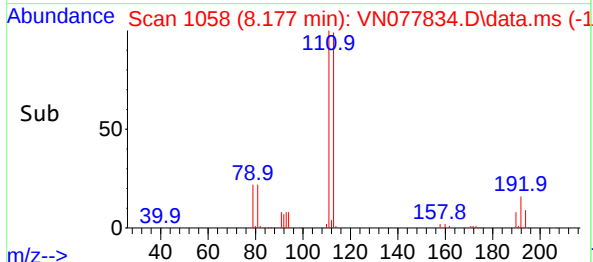
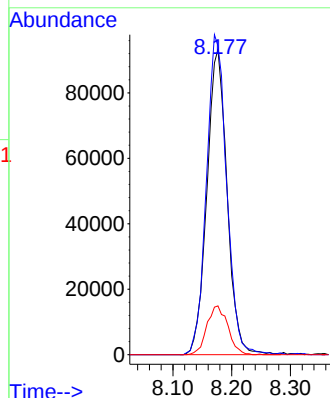
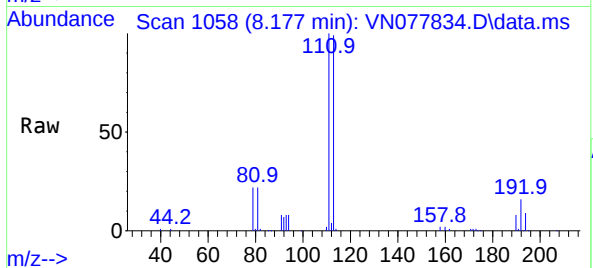




#35
Dibromofluoromethane
Concen: 48.435 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

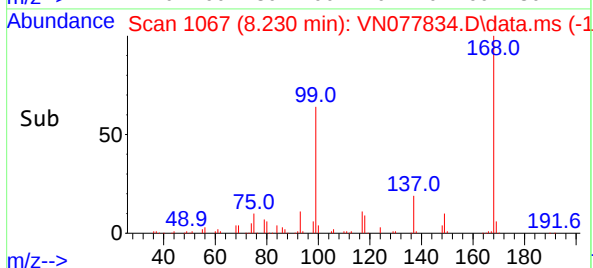
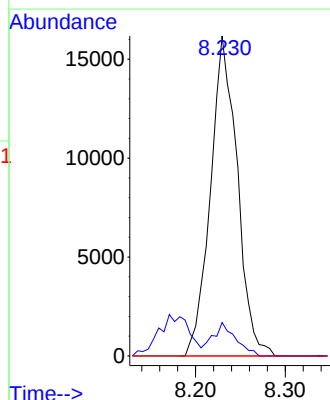
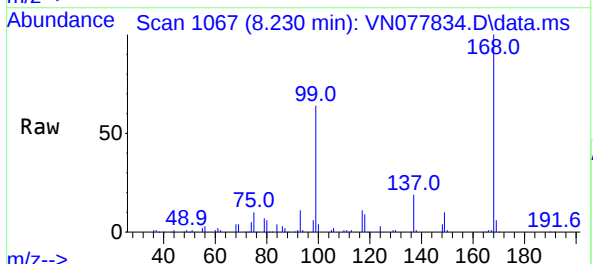
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

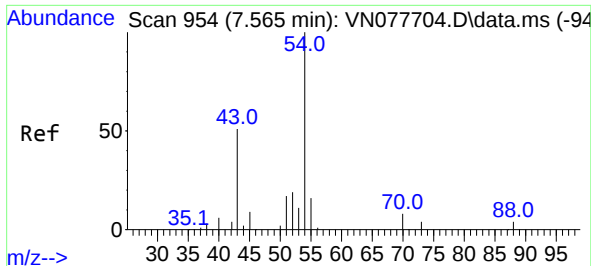
Tgt Ion:113 Resp: 222171
Ion Ratio Lower Upper
113 100
111 105.2 82.6 123.8
192 16.6 12.7 19.1



#36
1,1-Dichloropropene
Concen: 5.004 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

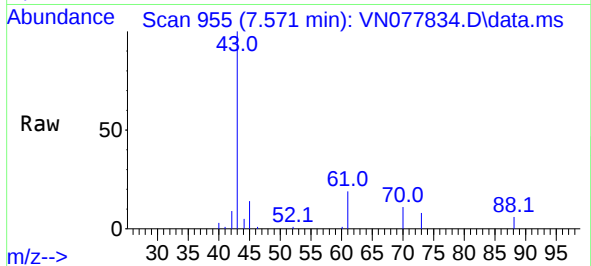
Tgt Ion: 75 Resp: 33575
Ion Ratio Lower Upper
75 100
110 9.0 19.1 57.3#
77 0.0 25.0 37.4#



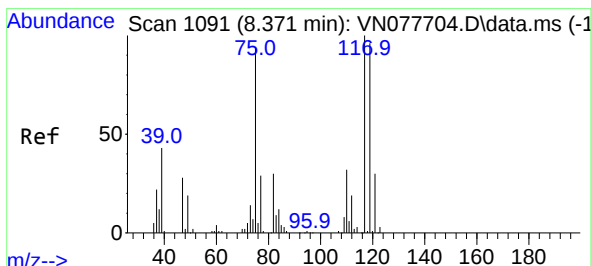
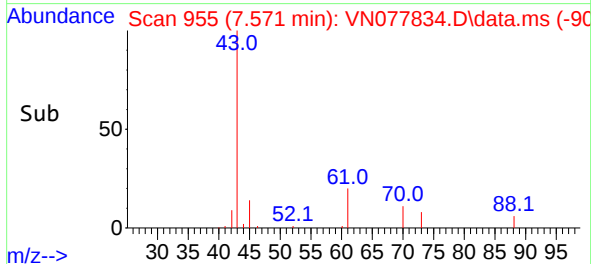
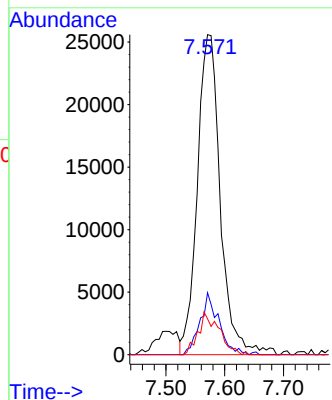


#37
Ethyl Acetate
Concen: 11.618 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

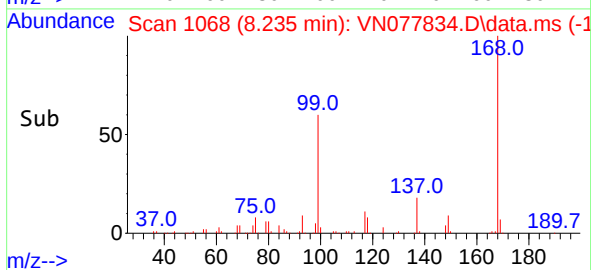
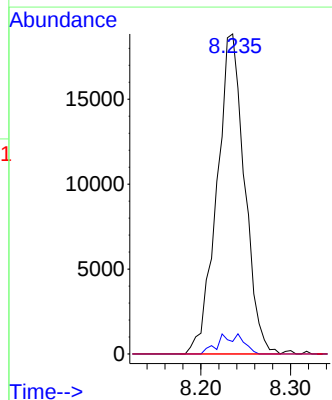
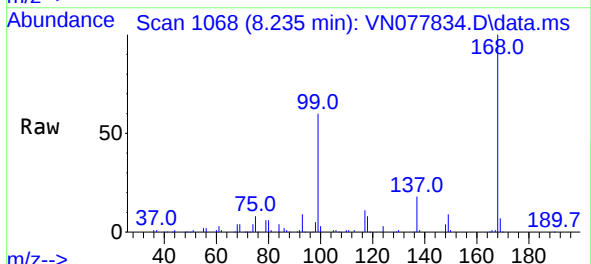


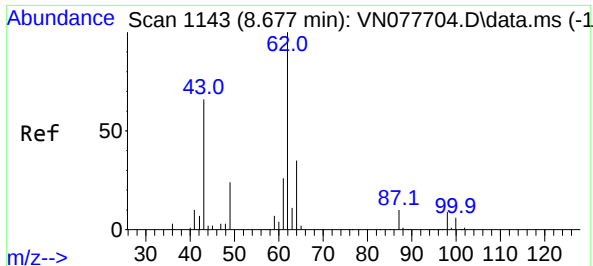
Tgt Ion: 43 Resp: 69475
Ion Ratio Lower Upper
43 100
61 15.9 13.2 19.8
70 12.1 11.3 16.9



#38
Carbon Tetrachloride
Concen: 5.950 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.136 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion: 117 Resp: 40309
Ion Ratio Lower Upper
117 100
119 3.9 77.3 115.9#
121 0.0 23.3 34.9#

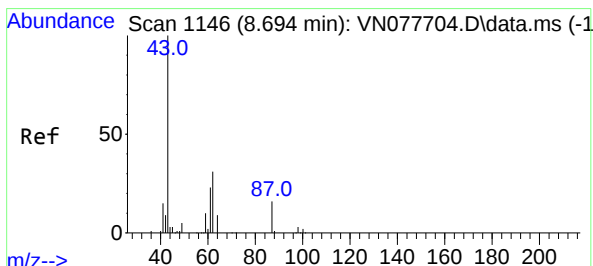
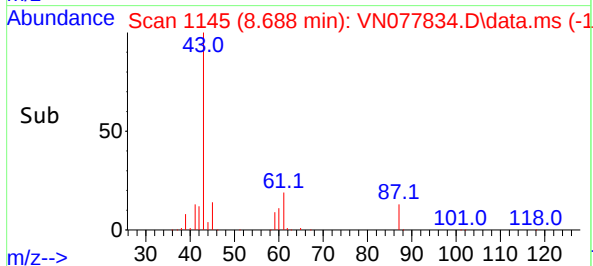
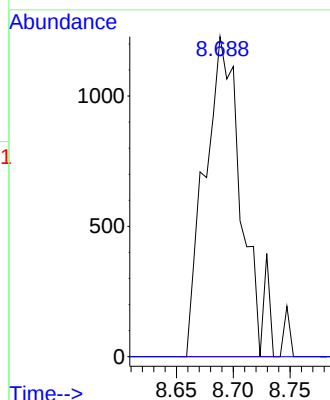
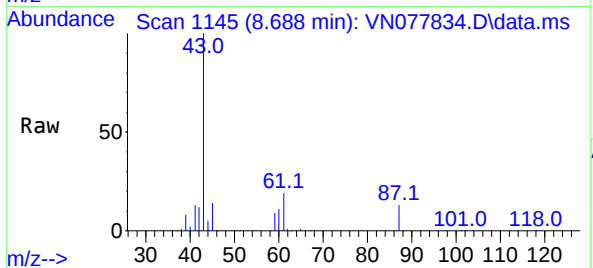




#42
1,2-Dichloroethane
Concen: 0.384 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.011 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

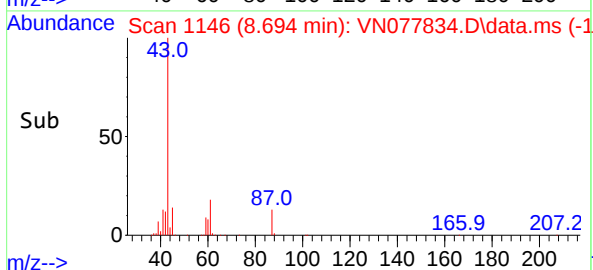
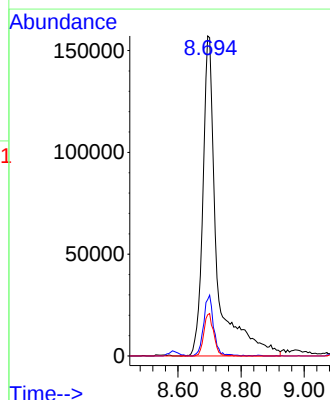
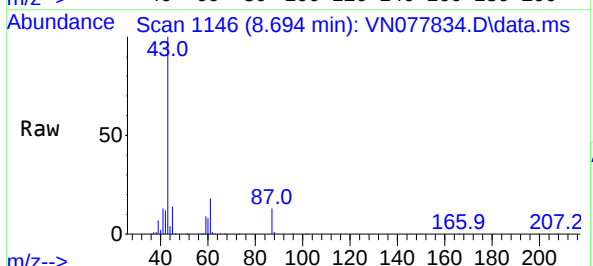
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

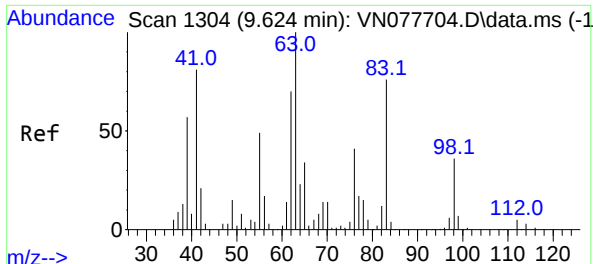
Tgt Ion: 62 Resp: 2764
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8



#43
Isopropyl Acetate
Concen: 50.008 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion: 43 Resp: 488462
Ion Ratio Lower Upper
43 100
61 13.3 24.7 37.1#
87 9.1 14.6 21.8#

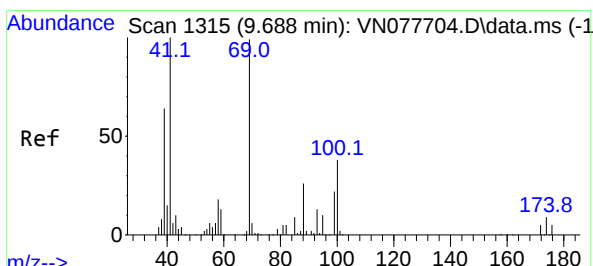
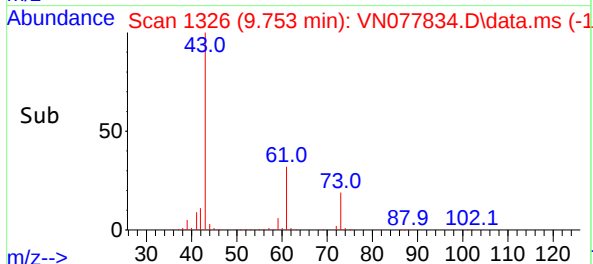
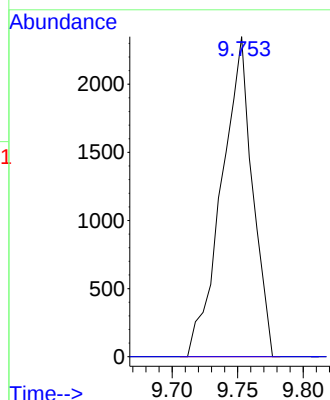
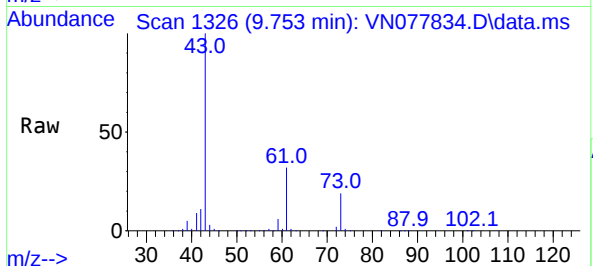




#45
1,2-Dichloropropane
Concen: 0.761 ug/l
RT: 9.753 min Scan# 11
Delta R.T. 0.129 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

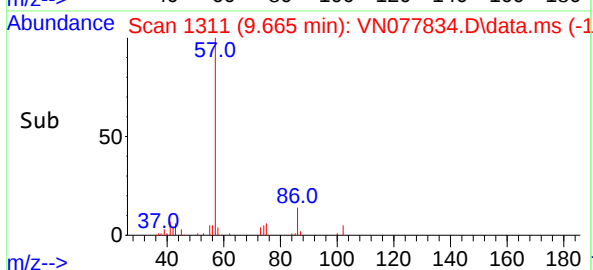
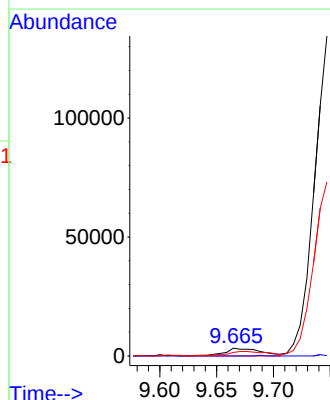
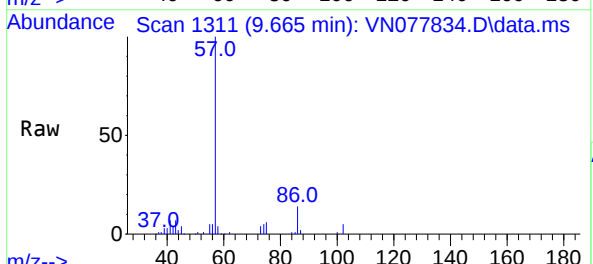
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

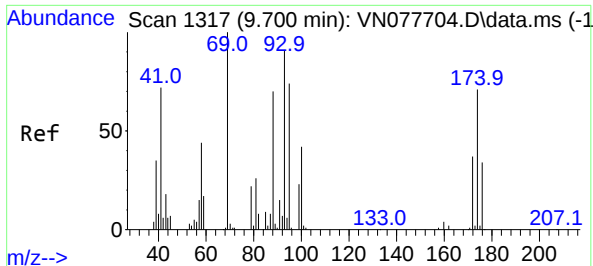
Tgt Ion: 63 Resp: 3842
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 1.586 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.023 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion: 41 Resp: 7346
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 0.0 54.6 81.8#

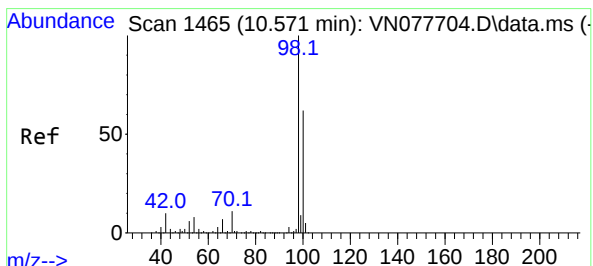
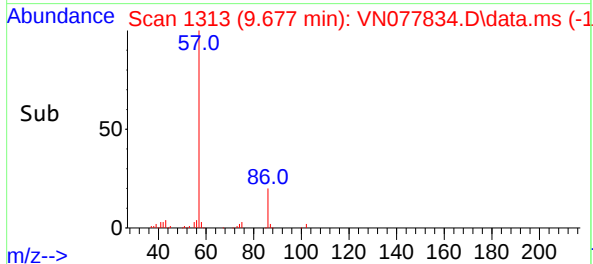
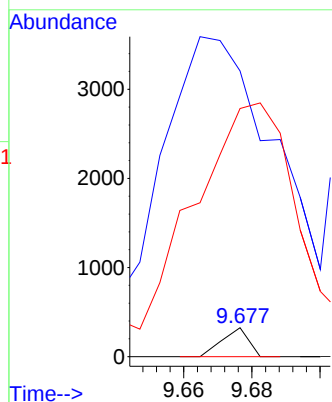
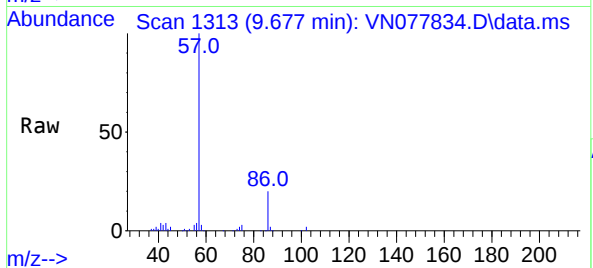




#49
1,4-Dioxane
Concen: 1.989 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

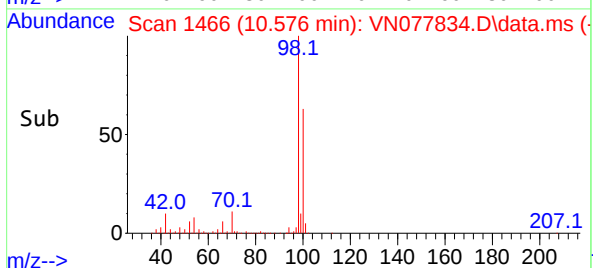
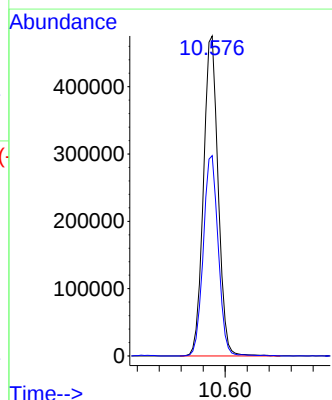
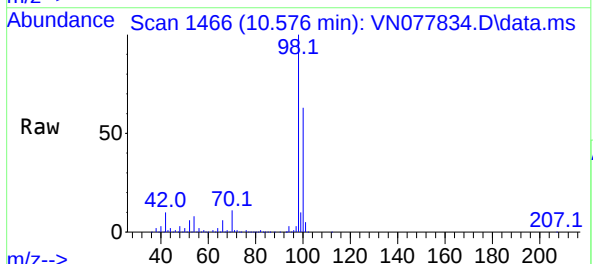
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

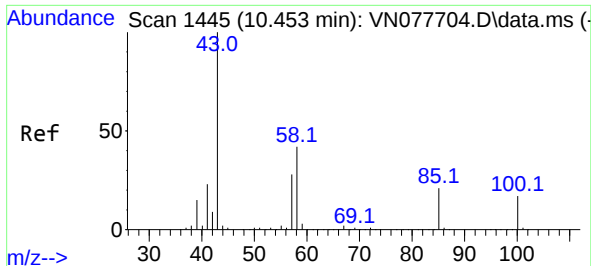
Tgt Ion: 88 Resp: 174
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 3646.6 47.0 70.4#



#50
Toluene-d8
Concen: 49.840 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.005 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion: 98 Resp: 879973
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0

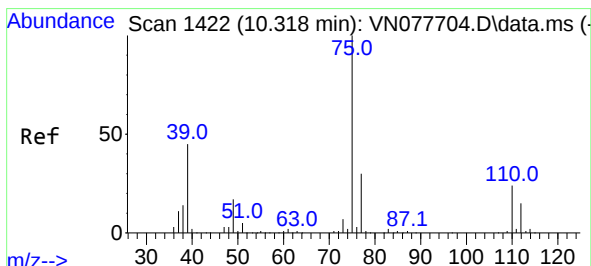
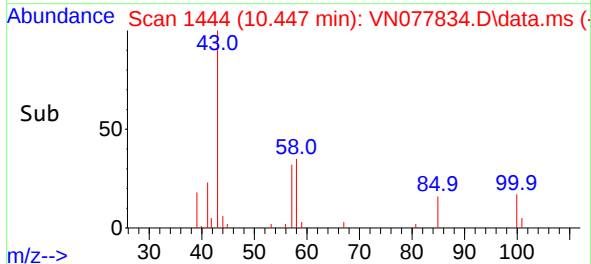
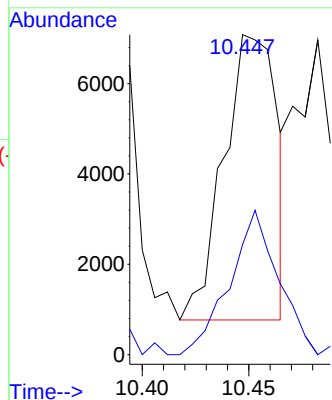
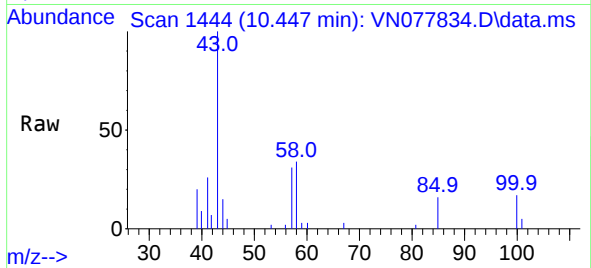




#51
4-Methyl-2-Pentanone
Concen: 1.893 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

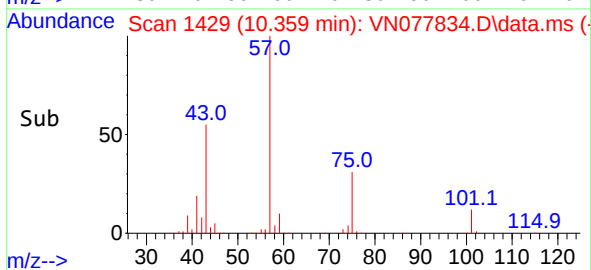
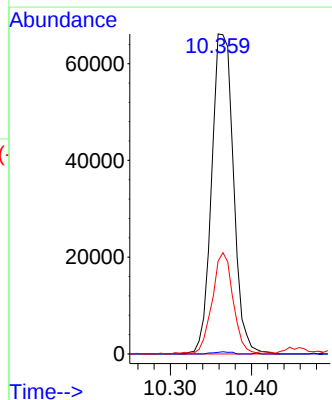
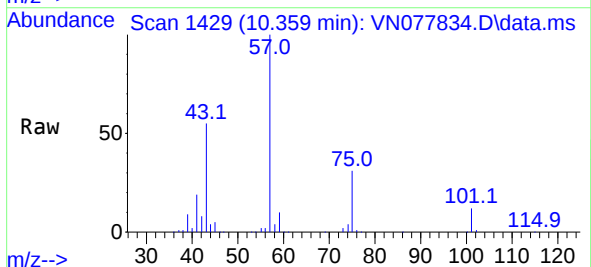
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

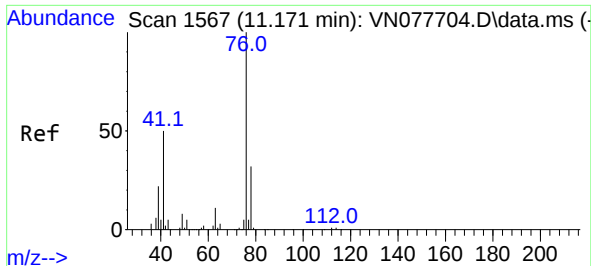
Tgt Ion: 43 Resp: 10989
Ion Ratio Lower Upper
43 100
58 46.9 36.6 54.8



#54
cis-1,3-Dichloropropene
Concen: 15.294 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion: 75 Resp: 123477
Ion Ratio Lower Upper
75 100
77 0.5 26.1 39.1#
39 28.8 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.849 ug/l

RT: 11.212 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN077834.D

Acq: 24 May 2023 02:38

Instrument :

MSVOA_N

ClientSampleId :

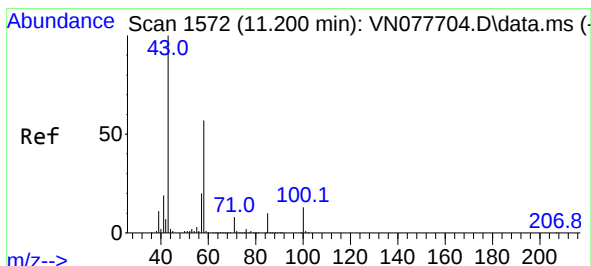
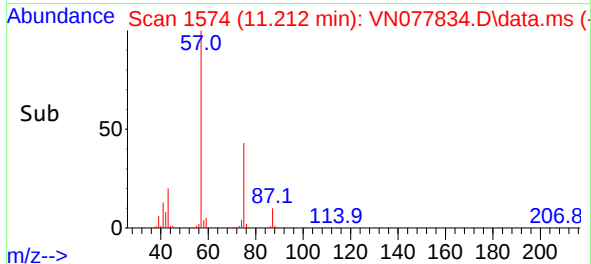
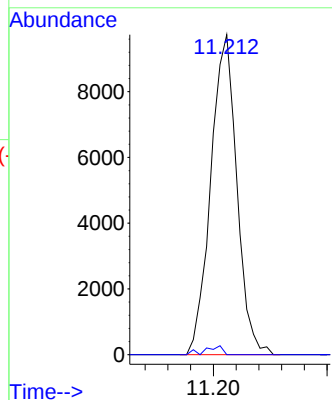
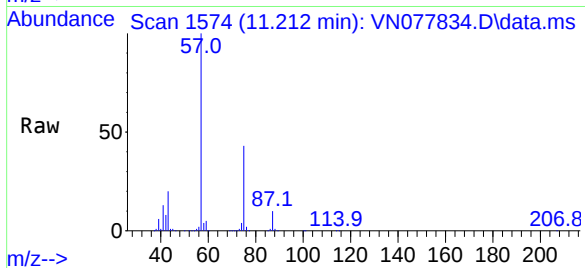
PB152982ZHE#01

Tgt Ion: 76 Resp: 15513

Ion Ratio Lower Upper

76 100

78 1.8 26.1 39.1#



#59

2-Hexanone

Concen: 59.949 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN077834.D

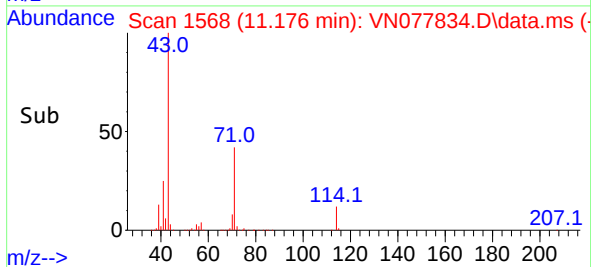
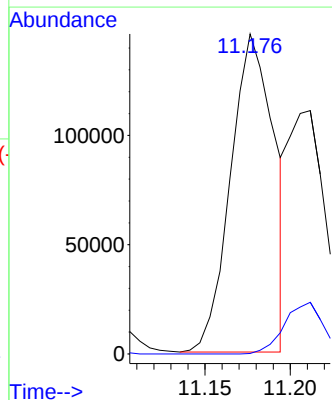
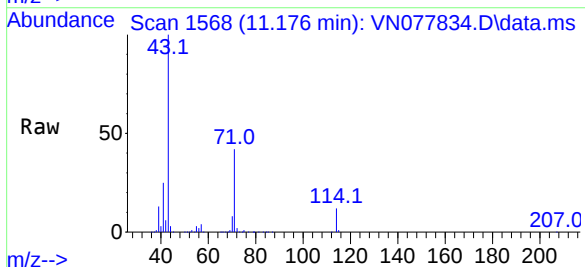
Acq: 24 May 2023 02:38

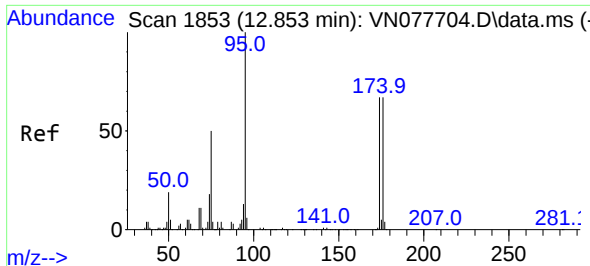
Tgt Ion: 43 Resp: 257452

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

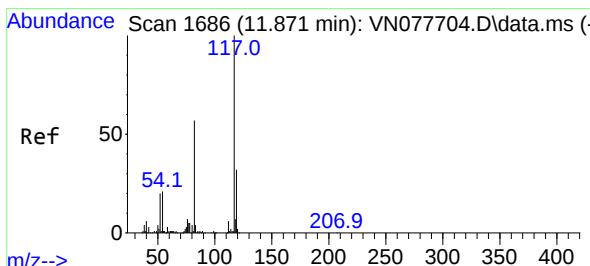
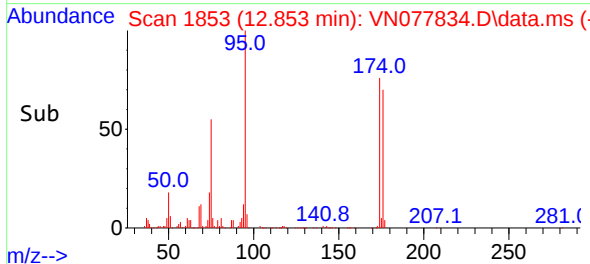
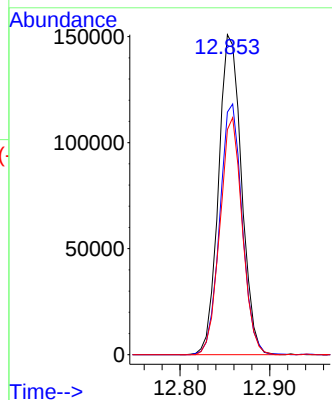
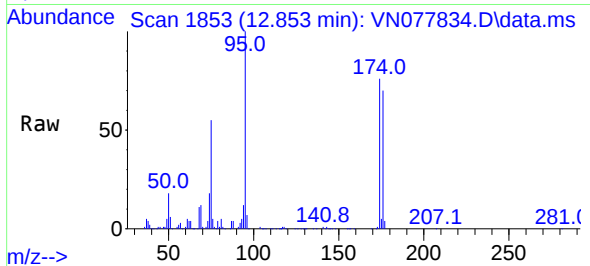




#62
4-Bromofluorobenzene
Concen: 42.964 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

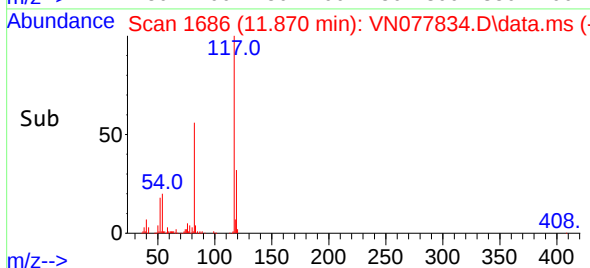
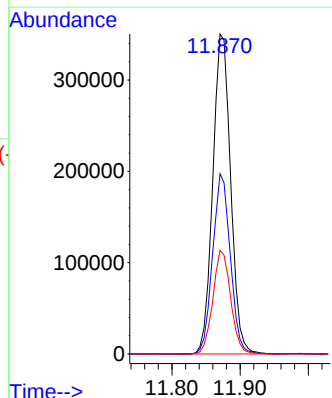
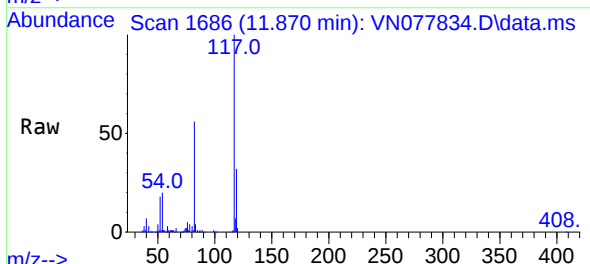
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

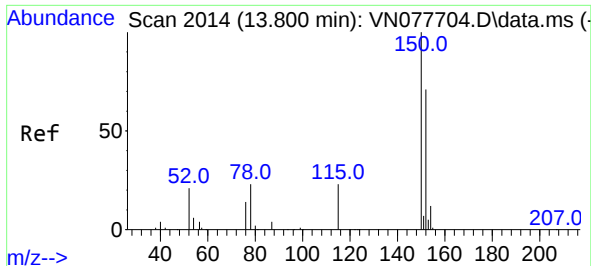
Tgt Ion: 95 Resp: 267908
Ion Ratio Lower Upper
95 100
174 76.6 0.0 143.8
176 72.0 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

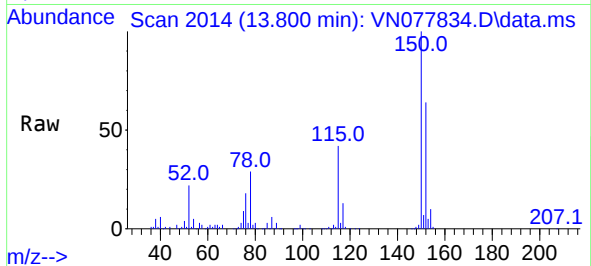
Tgt Ion:117 Resp: 638263
Ion Ratio Lower Upper
117 100
82 56.3 44.0 66.0
119 32.3 25.6 38.4



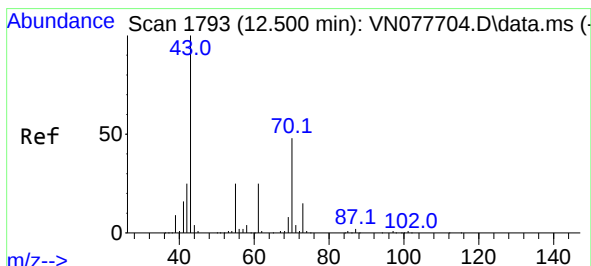
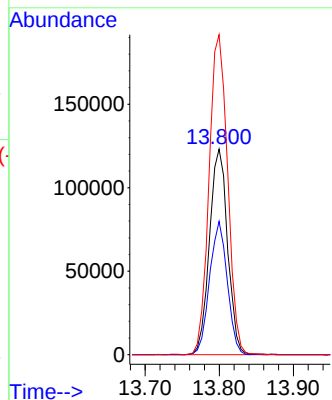
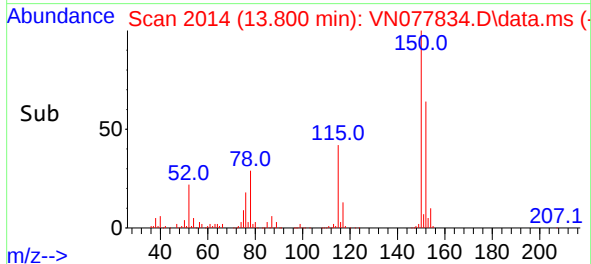


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

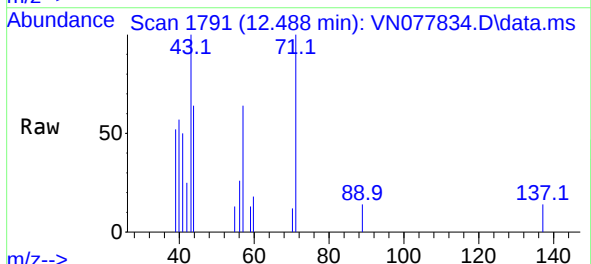
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01



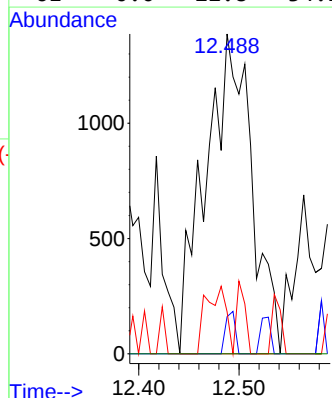
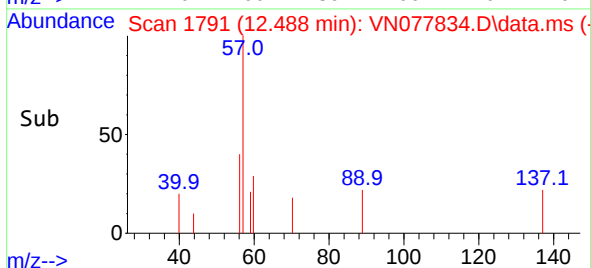
Tgt Ion:152 Resp: 209779
Ion Ratio Lower Upper
152 100
115 63.1 32.3 96.8
150 158.9 0.0 355.8

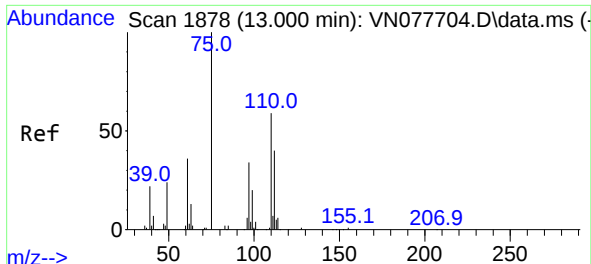


#74
N-ethyl acetate
Concen: 0.666 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38



Tgt Ion: 43 Resp: 4451
Ion Ratio Lower Upper
43 100
70 2.7 43.4 65.2#
55 4.2 21.4 32.0#
61 0.0 22.8 34.2#

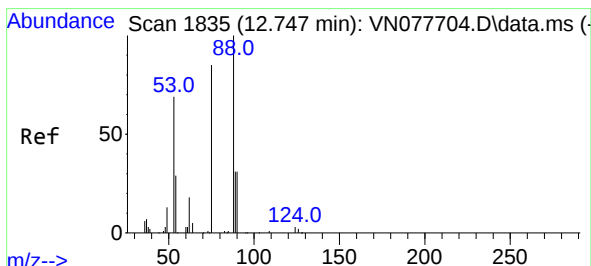
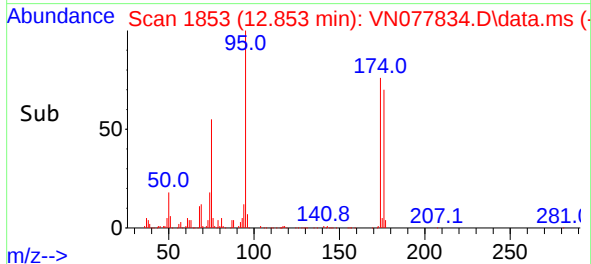
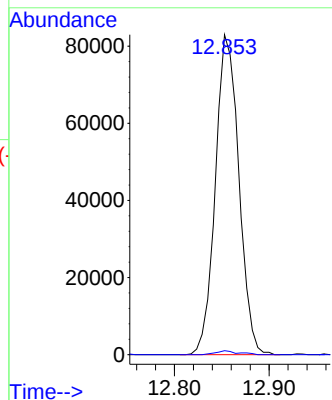
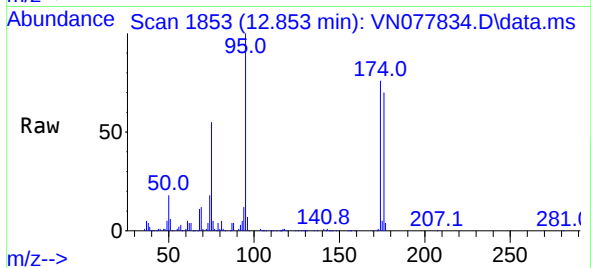




#76
1,2,3-Trichloropropane
Concen: 27.220 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

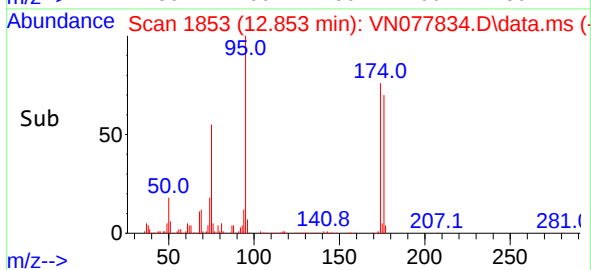
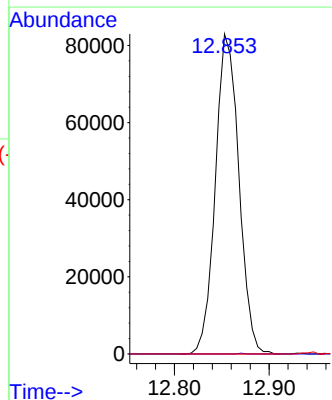
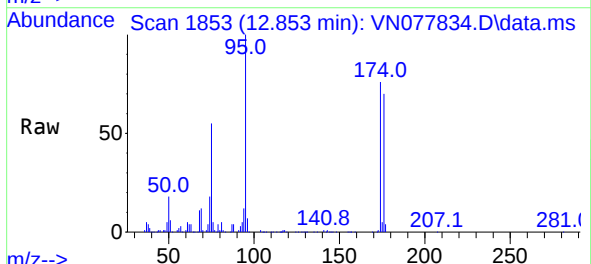
Instrument :
MSVOA_N
ClientSampleId :
PB152982ZHE#01

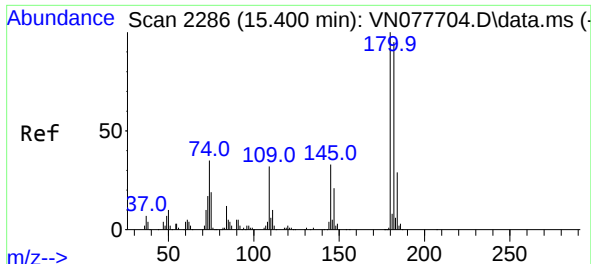
Tgt Ion: 75 Resp: 143005
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 87.010 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077834.D
Acq: 24 May 2023 02:38

Tgt Ion: 75 Resp: 143005
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.222 ug/l

RT: 15.406 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN077834.D

Acq: 24 May 2023 02:38

Instrument :

MSVOA_N

ClientSampleId :

PB152982ZHE#01

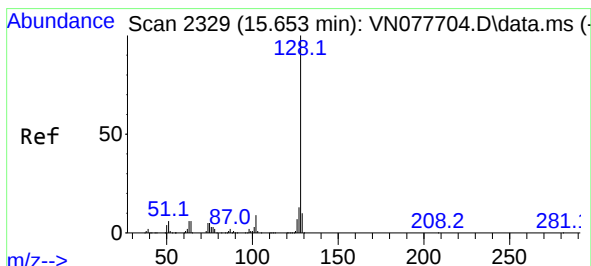
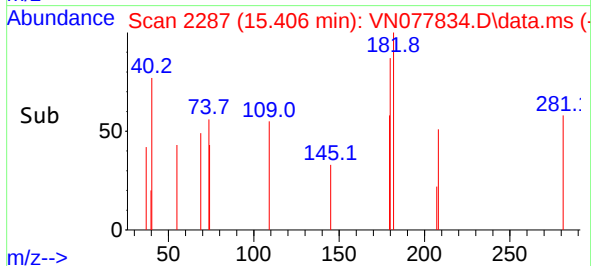
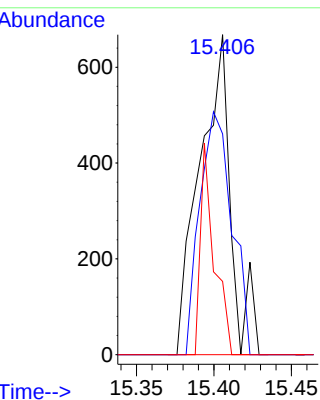
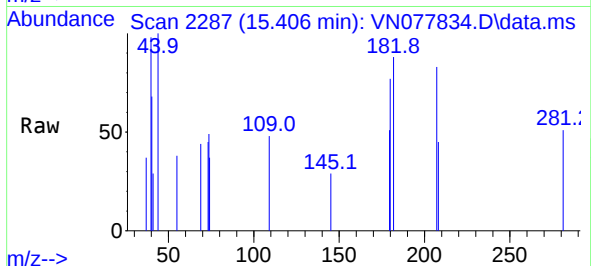
Tgt Ion:180 Resp: 926

Ion Ratio Lower Upper

180 100

182 79.2 46.1 138.2

145 29.3 16.6 49.8



#95

Naphthalene

Concen: 0.239 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.006 min

Lab File: VN077834.D

Acq: 24 May 2023 02:38

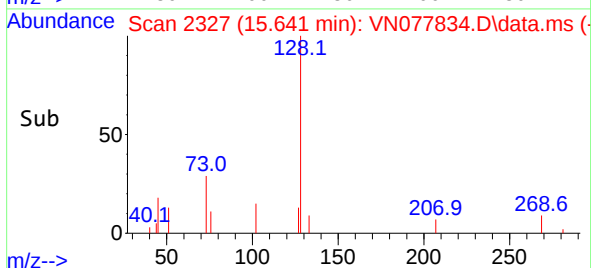
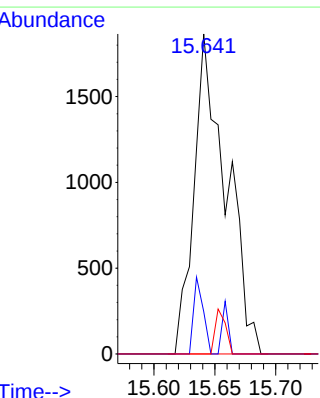
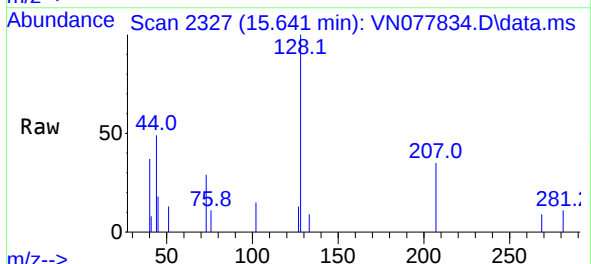
Tgt Ion:128 Resp: 3427

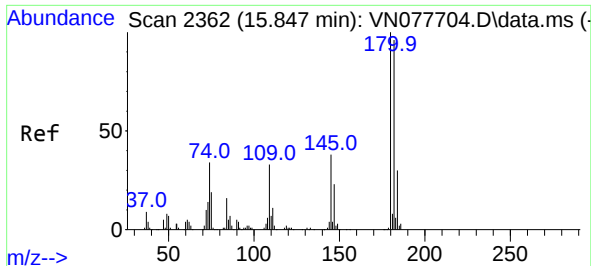
Ion Ratio Lower Upper

128 100

127 7.1 10.0 15.0#

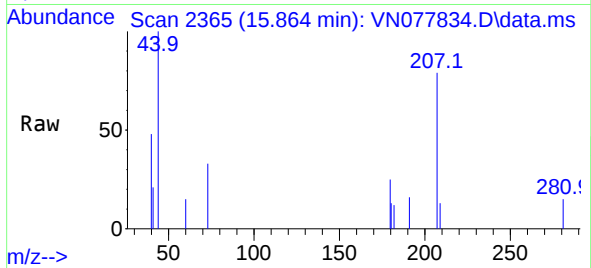
129 0.0 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.228 ug/l
 RT: 15.864 min Scan# 21
 Delta R.T. 0.017 min
 Lab File: VN077834.D
 Acq: 24 May 2023 02:38

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152982ZHE#01



Tgt Ion:180 Resp: 932
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.2 138.6#
 145 0.0 17.5 52.6#

