

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042923\
 Data File : VN077521.D
 Acq On : 29 Apr 2023 16:04
 Operator : JC\MD
 Sample : PB152434ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB152434ZHE#05

Quant Time: May 01 01:24:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

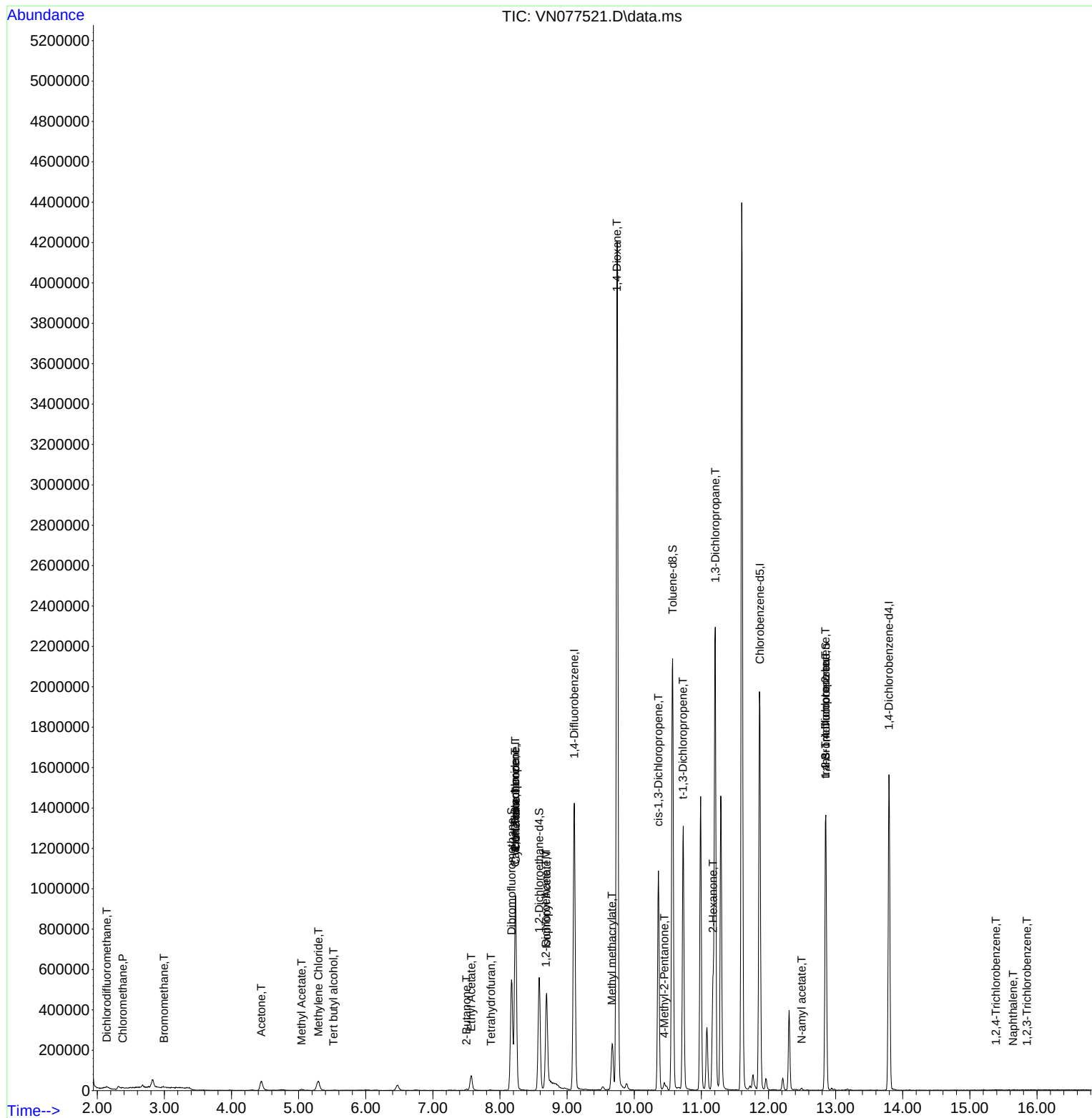
Internal Standards						
1) Pentafluorobenzene	8.231	168	680206	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1294702	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	1200492	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	422584	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	461371	51.980	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.960%			
35) Dibromofluoromethane	8.172	113	395852	50.870	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.740%			
50) Toluene-d8	10.572	98	1595132	53.485	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.960%			
62) 4-Bromofluorobenzene	12.854	95	511326	52.402	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.800%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.143	85	61	0.316	ug/l #	43
3) Chloromethane	2.378	50	1520	0.223	ug/l #	80
5) Bromomethane	2.996	94	2631	0.334	ug/l #	22
11) Tert butyl alcohol	5.519	59	704	0.494	ug/l #	82
16) Acetone	4.443	43	83895	29.710	ug/l #	83
18) Methyl Acetate	5.043	43	9813	0.900	ug/l #	82
20) Methylene Chloride	5.295	84	40065	4.474	ug/l	90
25) 2-Butanone	7.501	43	8203	2.048	ug/l	88
29) Tetrahydrofuran	7.866	42	1391	0.554	ug/l #	57
31) Cyclohexane	8.236	56	16733	1.331	ug/l #	52
36) 1,1-Dichloropropene	8.231	75	59470	5.290	ug/l #	47
37) Ethyl Acetate	7.572	43	102160	11.958	ug/l	97
38) Carbon Tetrachloride	8.225	117	77469	6.246	ug/l #	15
42) 1,2-Dichloroethane	8.684	62	3692	0.314	ug/l	78
43) Isopropyl Acetate	8.695	43	572988	38.770	ug/l #	85
48) Methyl methacrylate	9.666	41	11447	1.702	ug/l #	33
49) 1,4-Dioxane	9.742	88	1355	8.030	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	19124	2.206	ug/l	98
53) t-1,3-Dichloropropene	10.725	75	4458	0.350	ug/l #	49
54) cis-1,3-Dichloropropene	10.360	75	233329	16.812	ug/l #	61
57) 1,3-Dichloropropane	11.207	76	28570	1.988	ug/l #	42
59) 2-Hexanone	11.172	43	391826	62.183	ug/l #	19
74) N-amyl acetate	12.495	43	3907	0.337	ug/l #	46
76) 1,2,3-Trichloropropane	12.848	75	273167	27.798	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	273167	78.535	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.389	180	148	0.845	ug/l #	62
95) Naphthalene	15.642	128	1243	1.251	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.848	180	223	0.553	ug/l #	53

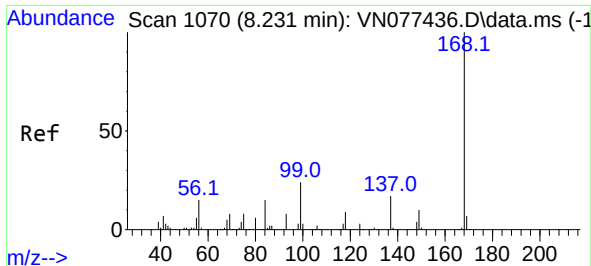
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077521.D

Acq: 29 Apr 2023 16:04

Instrument :

MSVOA_N

ClientSampleId :

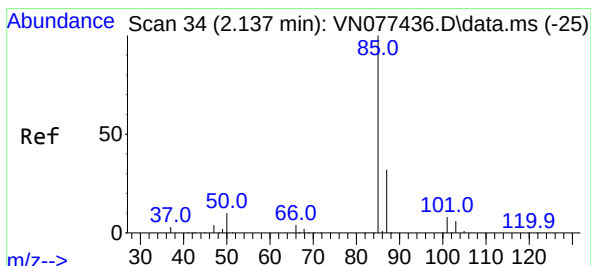
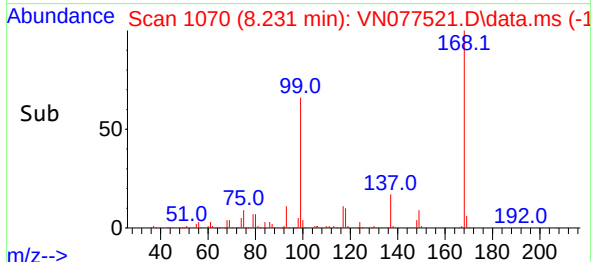
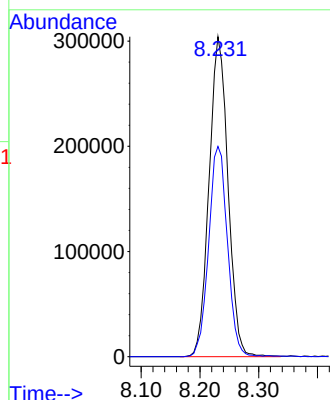
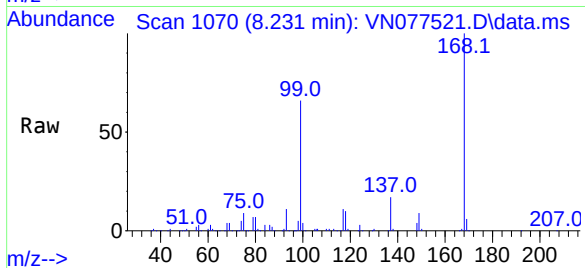
PB152434ZHE#05

Tgt Ion:168 Resp: 680206

Ion Ratio Lower Upper

168 100

99 65.7 53.0 79.6



#2

Dichlorodifluoromethane

Concen: 0.316 ug/l

RT: 2.143 min Scan# 35

Delta R.T. 0.006 min

Lab File: VN077521.D

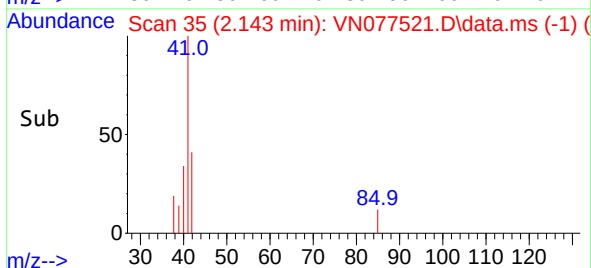
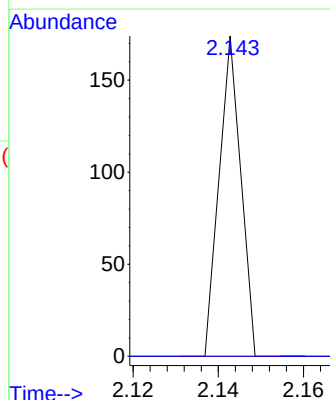
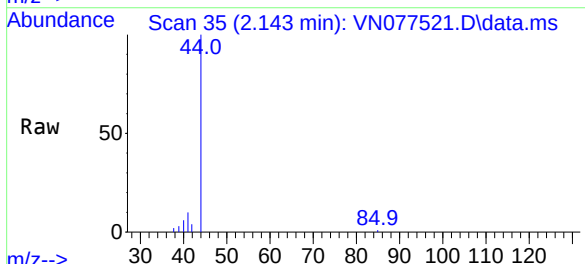
Acq: 29 Apr 2023 16:04

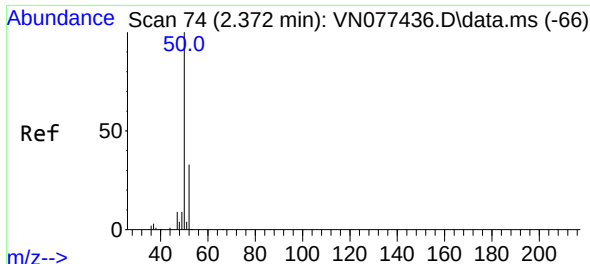
Tgt Ion: 85 Resp: 61

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#

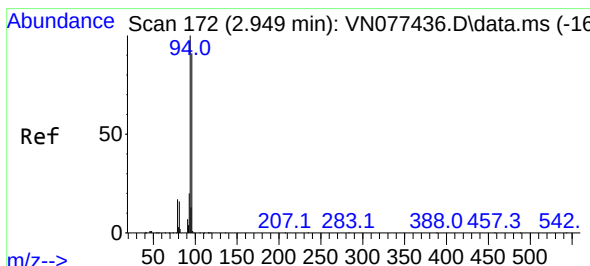
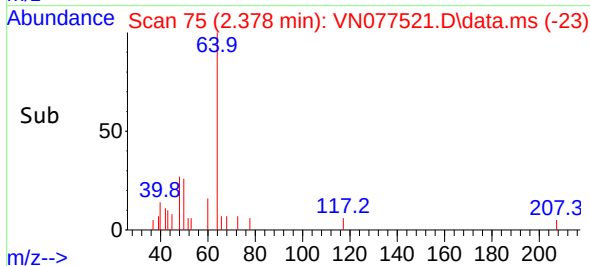
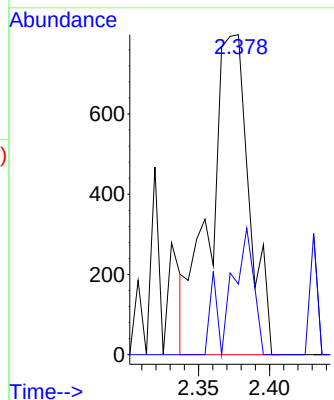
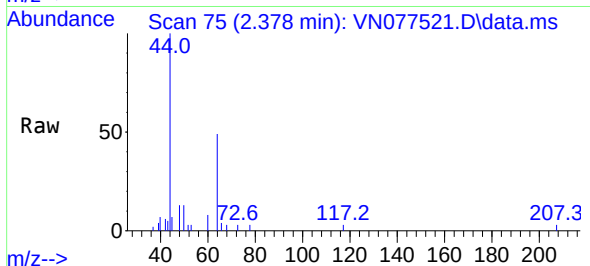




#3
Chloromethane
Concen: 0.223 ug/l
RT: 2.378 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

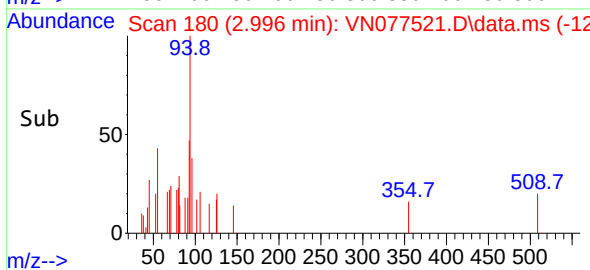
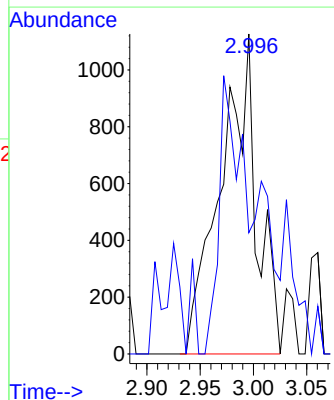
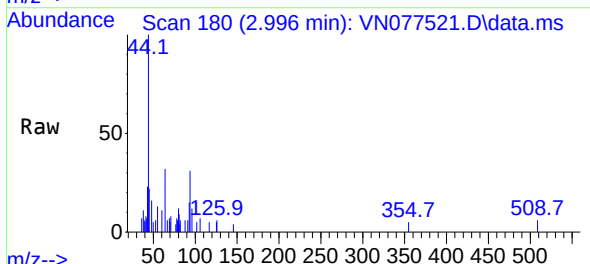
Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

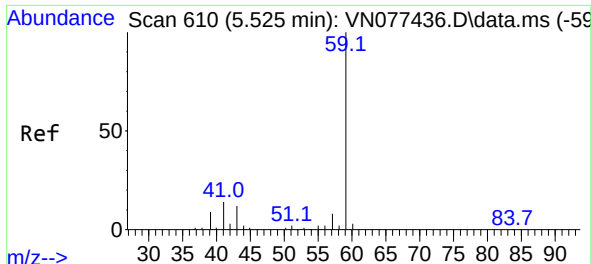
Tgt Ion: 50 Resp: 1520
Ion Ratio Lower Upper
50 100
52 22.1 26.5 39.7#



#5
Bromomethane
Concen: 0.334 ug/l
RT: 2.996 min Scan# 180
Delta R.T. 0.047 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion: 94 Resp: 2631
Ion Ratio Lower Upper
94 100
96 16.9 73.1 109.7#

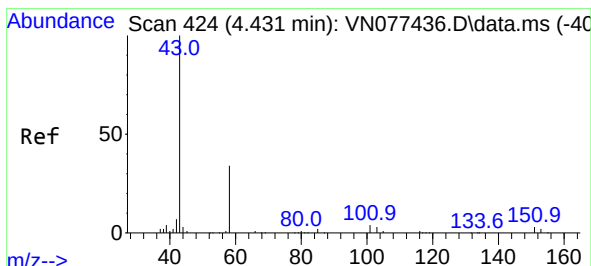
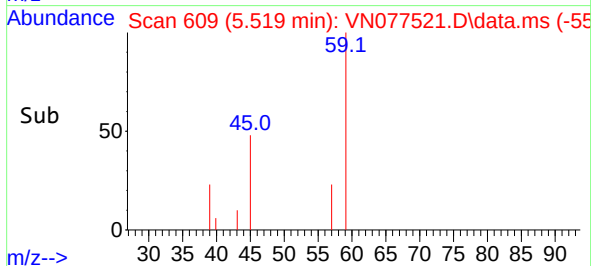
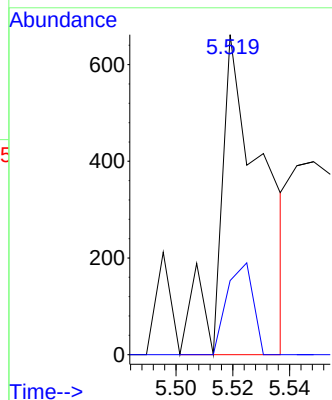
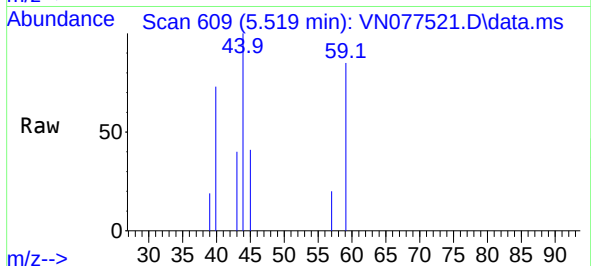




#11
Tert butyl alcohol
Concen: 0.494 ug/l
RT: 5.519 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

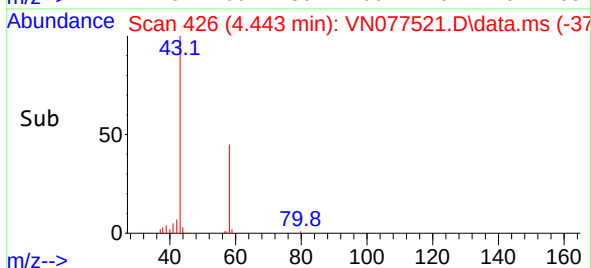
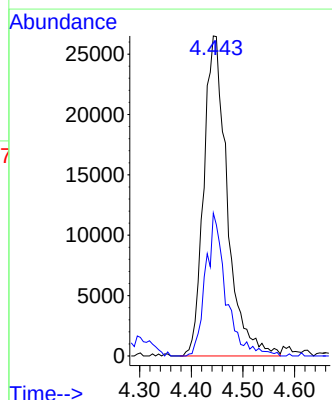
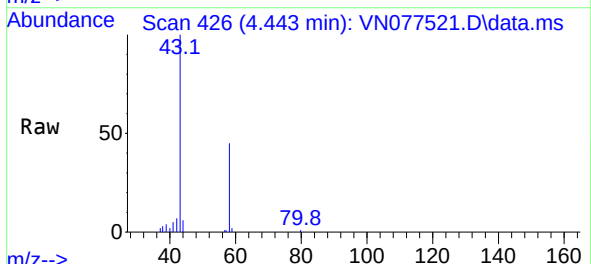
Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

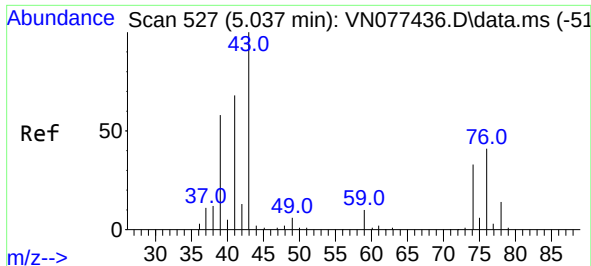
Tgt Ion: 59 Resp: 704
Ion Ratio Lower Upper
59 100
57 17.2 8.2 12.4#



#16
Acetone
Concen: 29.710 ug/l
RT: 4.443 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion: 43 Resp: 83895
Ion Ratio Lower Upper
43 100
58 44.6 28.0 42.0#

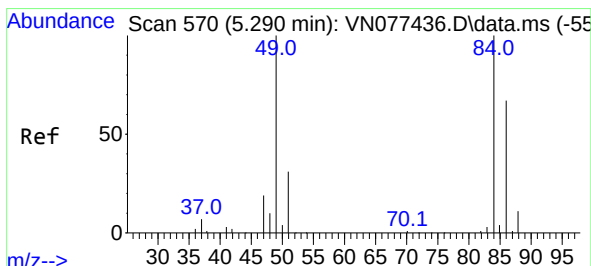
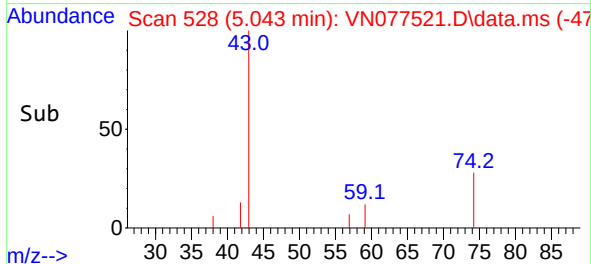
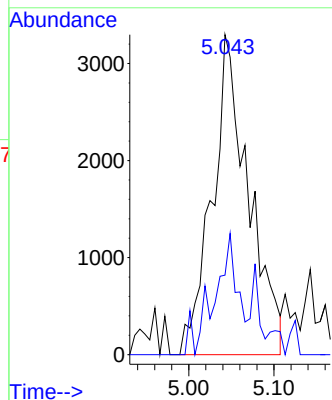
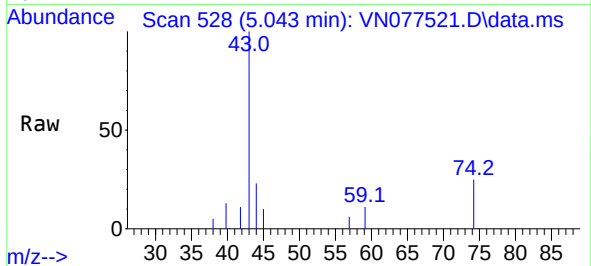




#18
Methyl Acetate
Concen: 0.900 ug/l
RT: 5.043 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

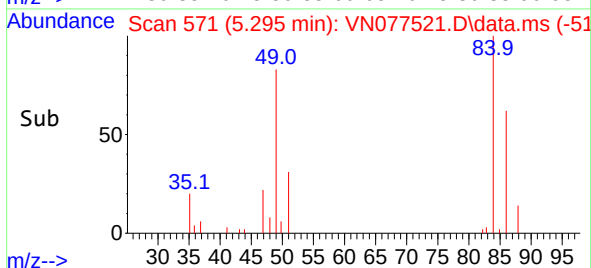
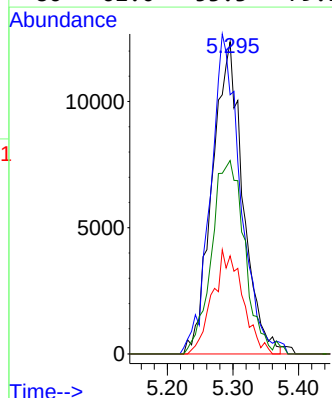
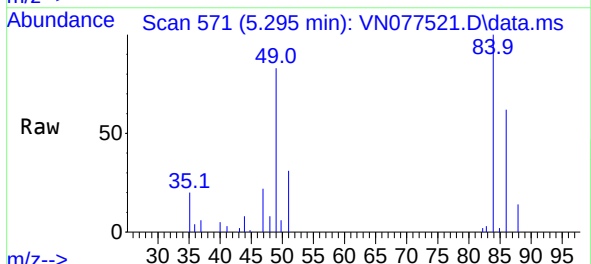
Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

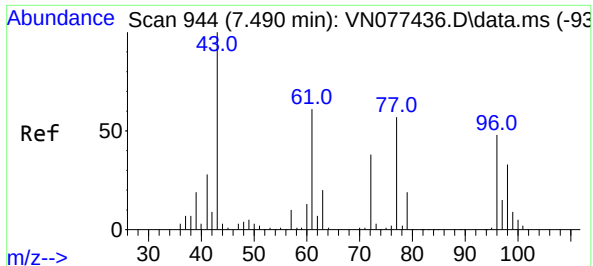
Tgt Ion: 43 Resp: 9813
Ion Ratio Lower Upper
43 100
74 22.8 26.2 39.4#



#20
Methylene Chloride
Concen: 4.474 ug/l
RT: 5.295 min Scan# 571
Delta R.T. 0.006 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion: 84 Resp: 40065
Ion Ratio Lower Upper
84 100
49 83.0 79.7 119.5
51 31.4 25.2 37.8
86 62.0 53.3 79.9

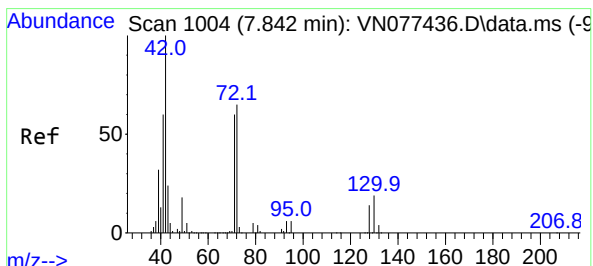
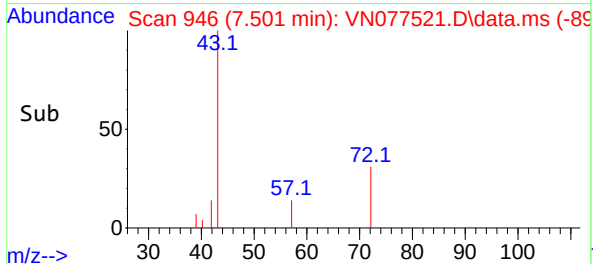
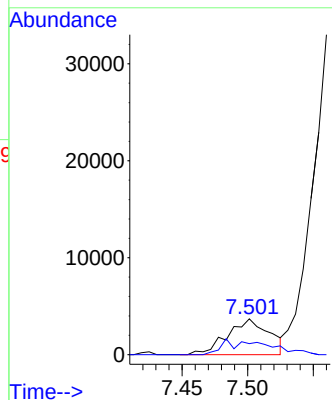
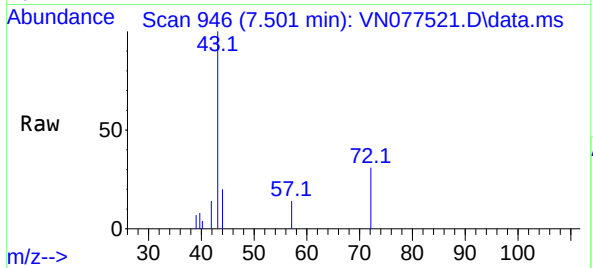




#25
2-Butanone
Concen: 2.048 ug/l
RT: 7.501 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

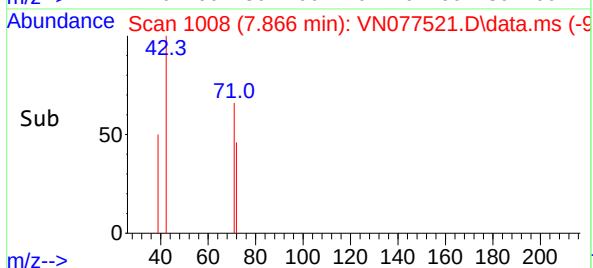
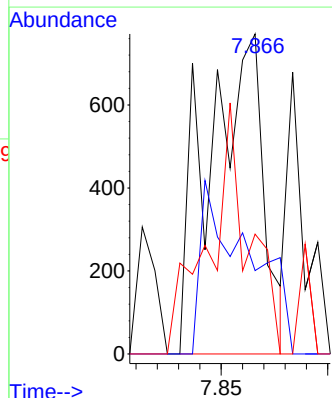
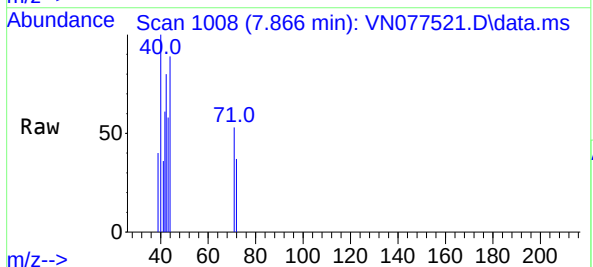
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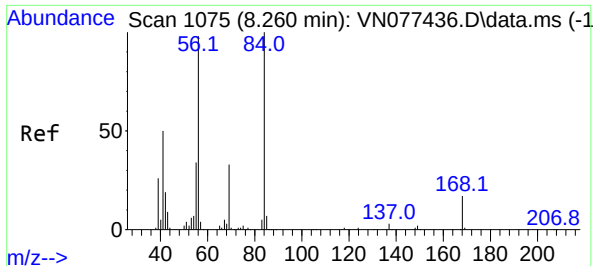
Tgt Ion: 43 Resp: 8203
Ion Ratio Lower Upper
43 100
72 30.6 30.2 45.2



#29
Tetrahydrofuran
Concen: 0.554 ug/l
RT: 7.866 min Scan# 1008
Delta R.T. 0.023 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

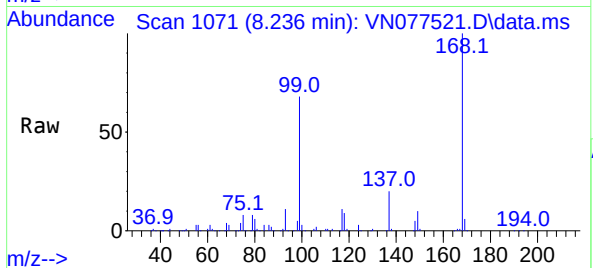
Tgt Ion: 42 Resp: 1391
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 56.3 47.4 71.2



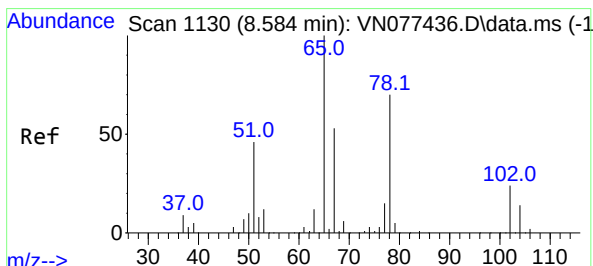
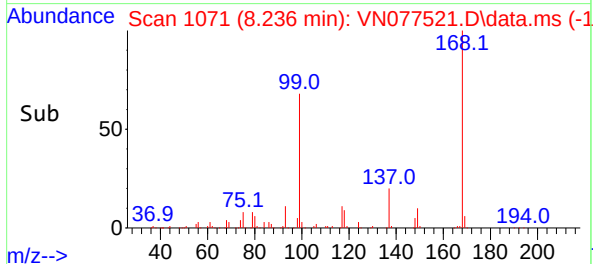
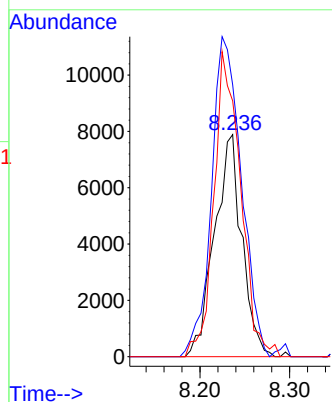


#31
Cyclohexane
Concen: 1.331 ug/l
RT: 8.236 min Scan# 1075
Delta R.T. -0.024 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

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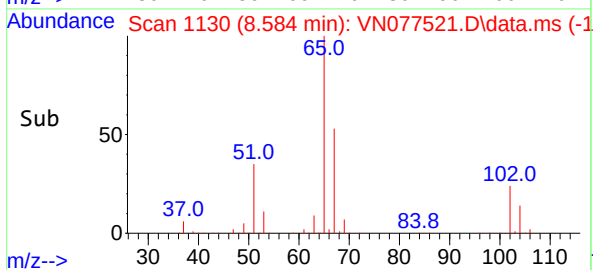
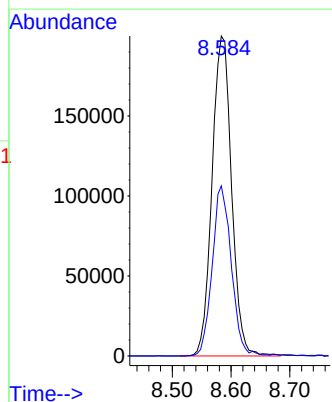
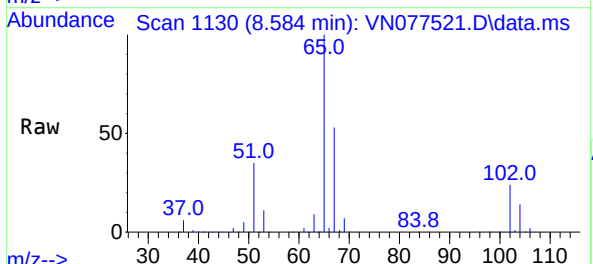


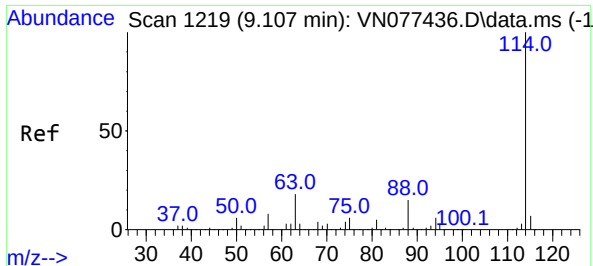
Tgt Ion: 56 Resp: 16733
Ion Ratio Lower Upper
56 100
69 122.4 26.8 40.2#
84 115.2 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 51.980 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion: 65 Resp: 461371
Ion Ratio Lower Upper
65 100
67 51.9 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN077521.D

Acq: 29 Apr 2023 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB152434ZHE#05

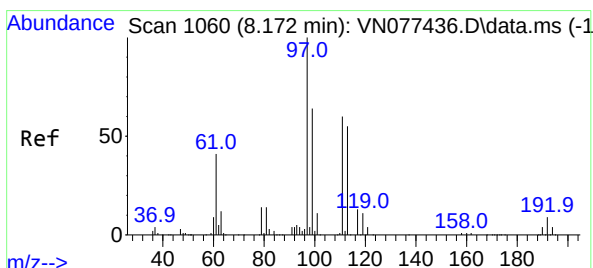
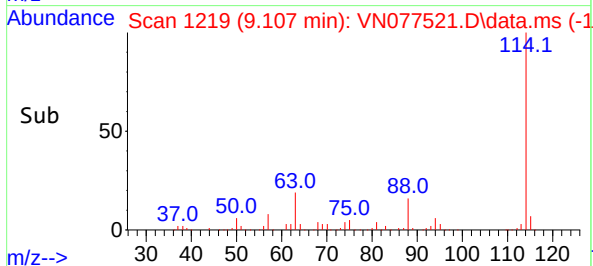
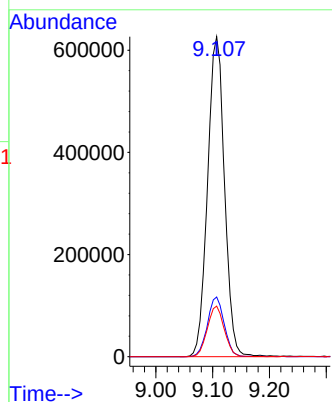
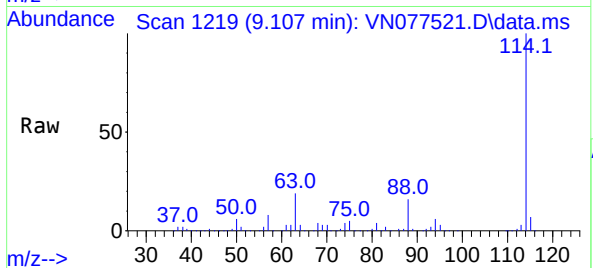
Tgt Ion:114 Resp: 1294702

Ion Ratio Lower Upper

114 100

63 18.6 0.0 36.4

88 15.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.870 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN077521.D

Acq: 29 Apr 2023 16:04

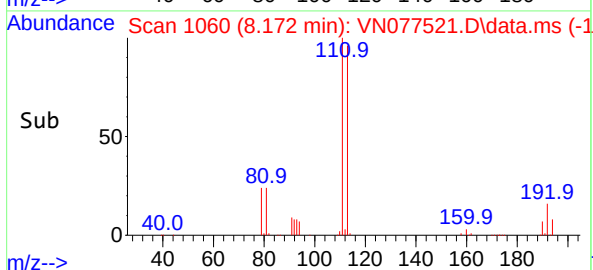
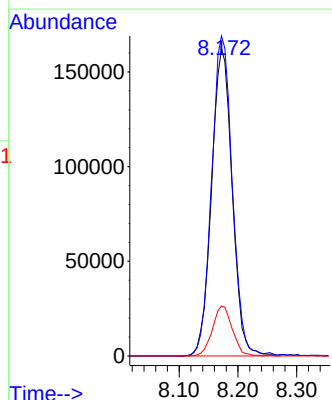
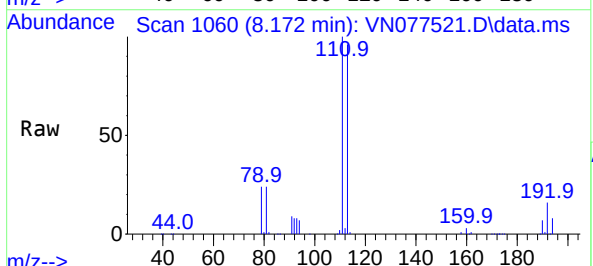
Tgt Ion:113 Resp: 395852

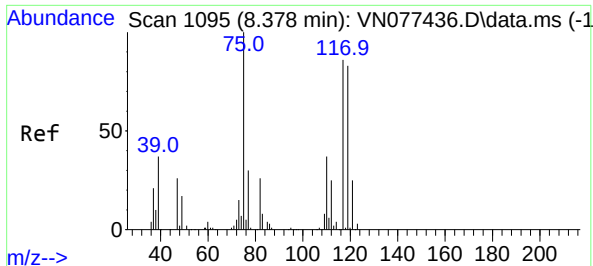
Ion Ratio Lower Upper

113 100

111 104.5 82.6 123.8

192 15.6 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.290 ug/l

RT: 8.231 min Scan# 1095

Delta R.T. -0.147 min

Lab File: VN077521.D

Acq: 29 Apr 2023 16:04

Instrument :

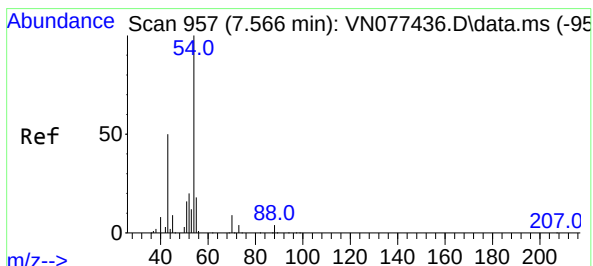
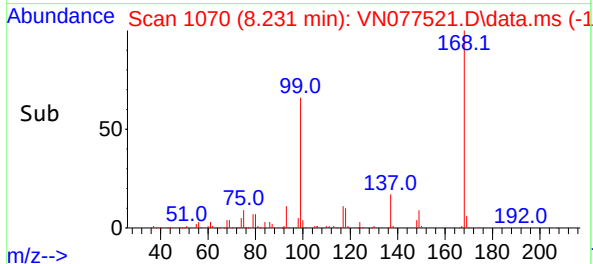
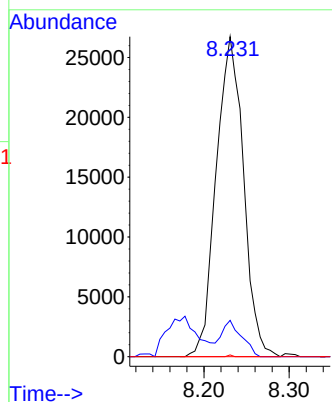
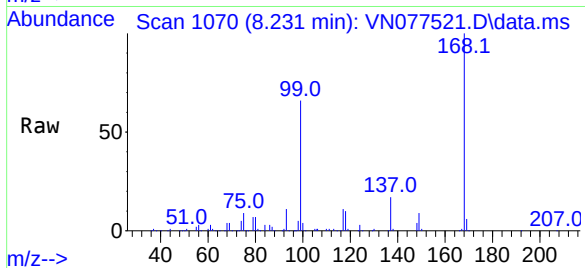
MSVOA_N

ClientSampleId :

PB152434ZHE#05

Tgt Ion: 75 Resp: 59470

Ion	Ratio	Lower	Upper
75	100		
110	8.2	19.1	57.3#
77	0.1	25.0	37.4#



#37

Ethyl Acetate

Concen: 11.958 ug/l

RT: 7.572 min Scan# 958

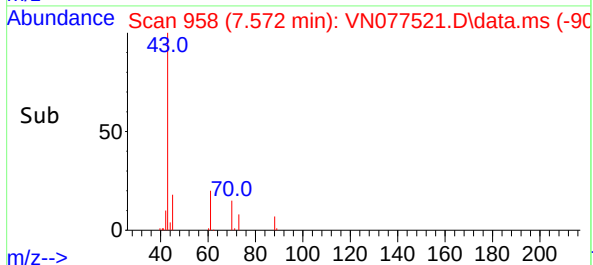
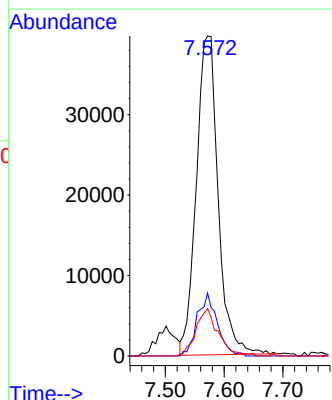
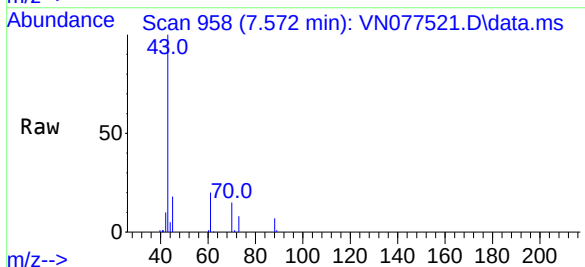
Delta R.T. 0.006 min

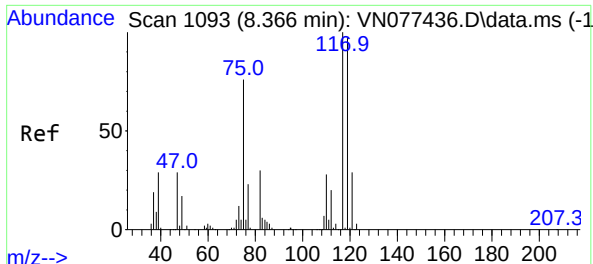
Lab File: VN077521.D

Acq: 29 Apr 2023 16:04

Tgt Ion: 43 Resp: 102160

Ion	Ratio	Lower	Upper
43	100		
61	18.1	13.2	19.8
70	15.1	11.3	16.9





#38

Carbon Tetrachloride

Concen: 6.246 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.141 min

Lab File: VN077521.D

Acq: 29 Apr 2023 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB152434ZHE#05

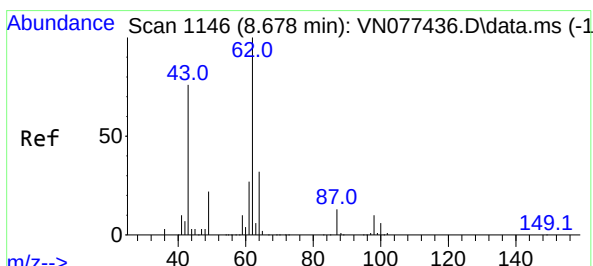
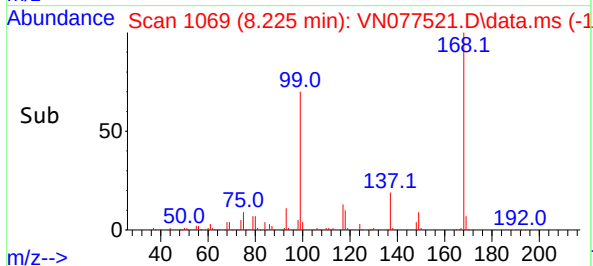
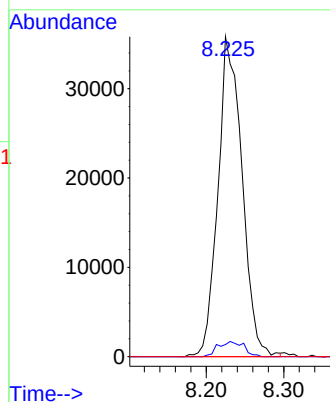
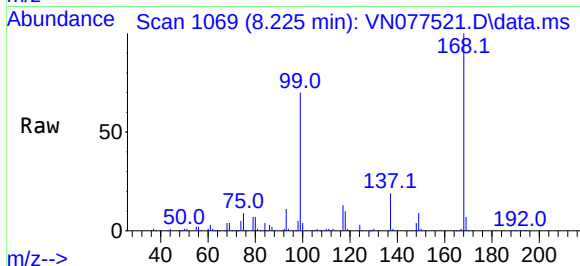
Tgt Ion:117 Resp: 77469

Ion Ratio Lower Upper

117 100

119 3.8 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.314 ug/l

RT: 8.684 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN077521.D

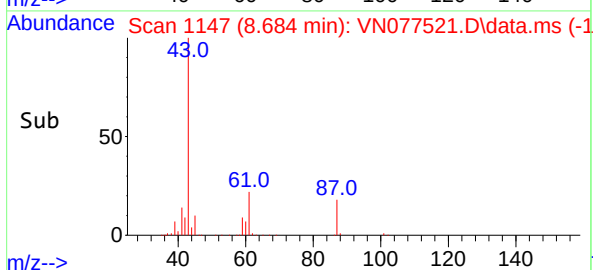
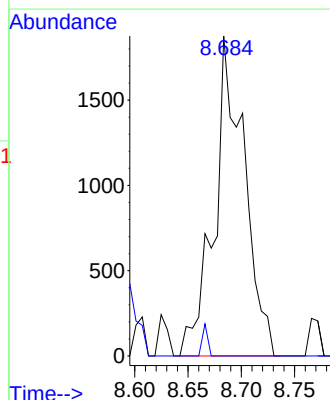
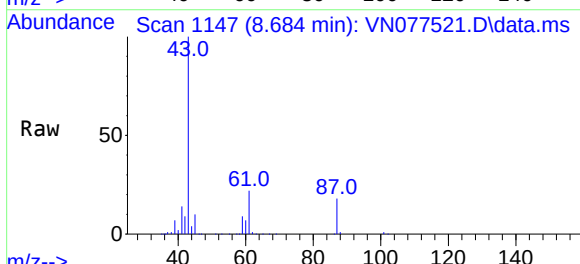
Acq: 29 Apr 2023 16:04

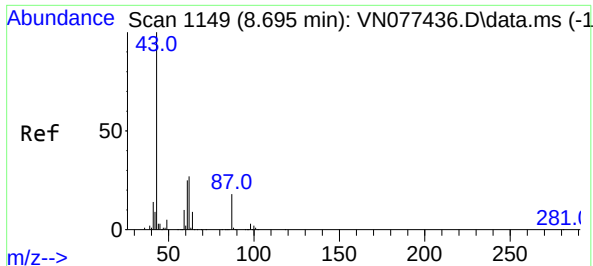
Tgt Ion: 62 Resp: 3692

Ion Ratio Lower Upper

62 100

98 1.8 0.0 19.8

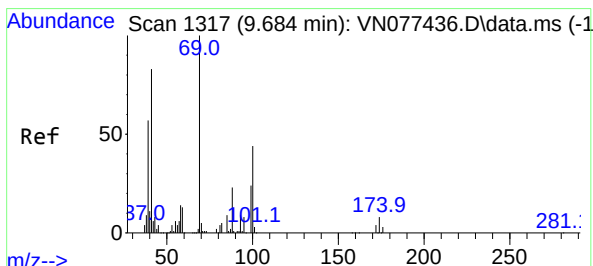
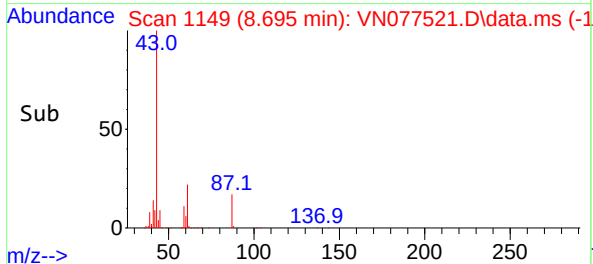
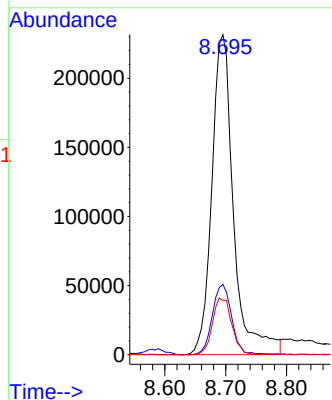
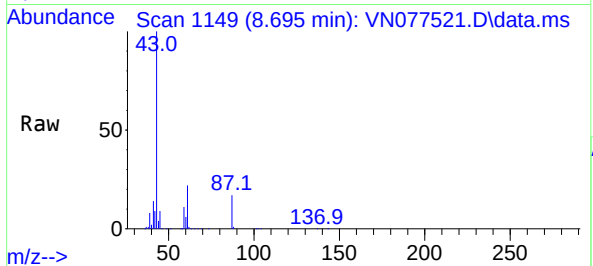




#43
Isopropyl Acetate
Concen: 38.770 ug/l
RT: 8.695 min Scan# 1149
Delta R.T. -0.000 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

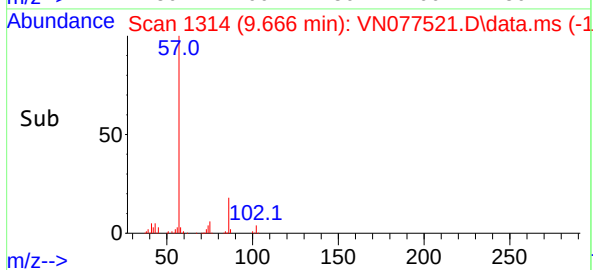
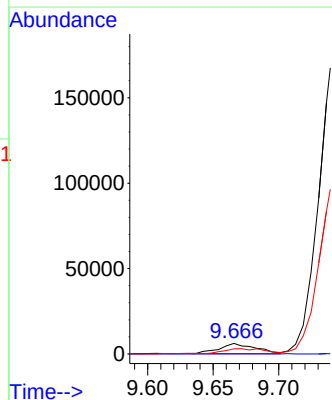
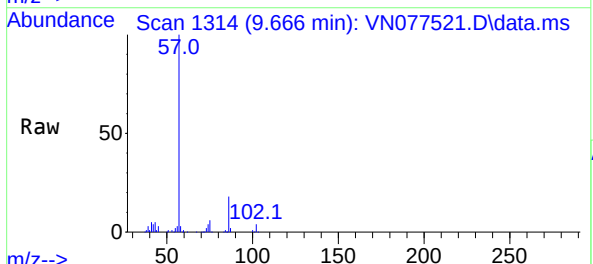
Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

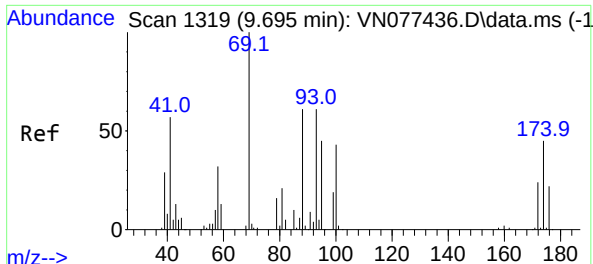
Tgt Ion: 43 Resp: 572988
Ion Ratio Lower Upper
43 100
61 19.6 24.7 37.1#
87 15.7 14.6 21.8



#48
Methyl methacrylate
Concen: 1.702 ug/l
RT: 9.666 min Scan# 1314
Delta R.T. -0.018 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion: 41 Resp: 11447
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 64.9 54.6 81.8

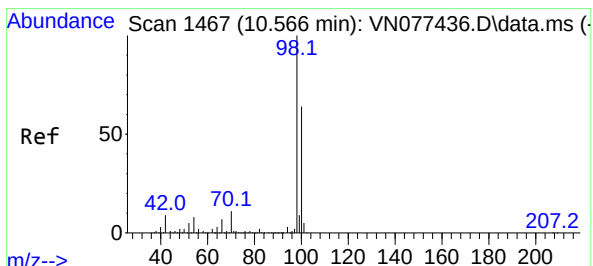
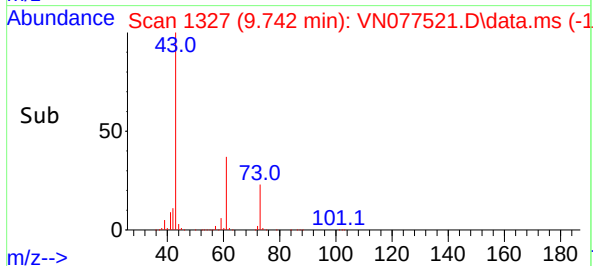
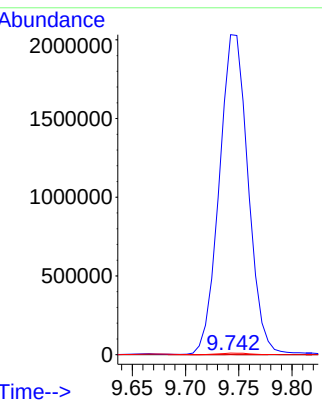
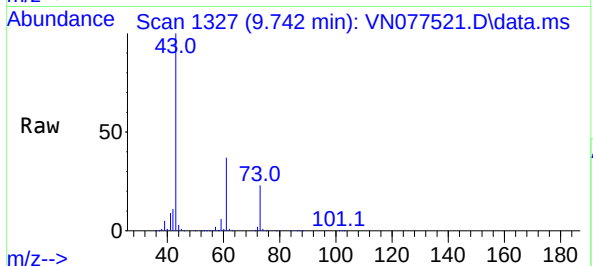




#49
1,4-Dioxane
Concen: 8.030 ug/l
RT: 9.742 min Scan# 1327
Delta R.T. 0.047 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

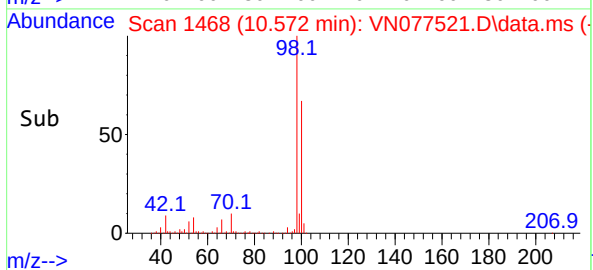
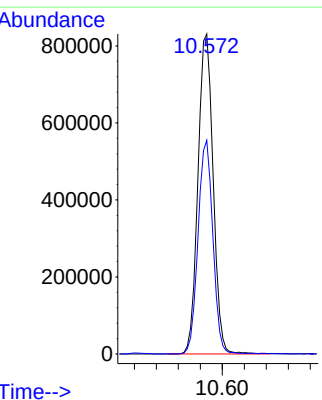
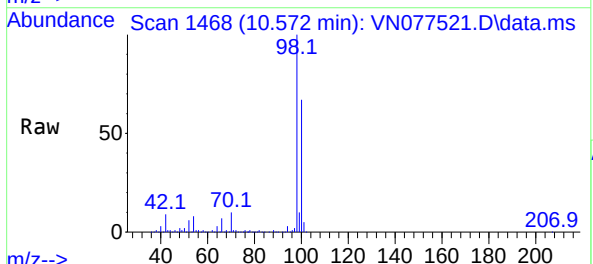
Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

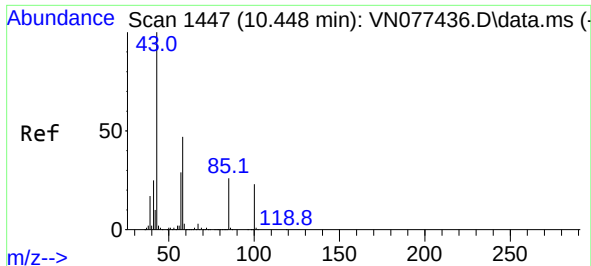
Tgt Ion: 88 Resp: 1355
Ion Ratio Lower Upper
88 100
43 28405.6 17.0 25.6#
58 1458.5 47.0 70.4#



#50
Toluene-d8
Concen: 53.485 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion: 98 Resp: 1595132
Ion Ratio Lower Upper
98 100
100 65.0 52.0 78.0

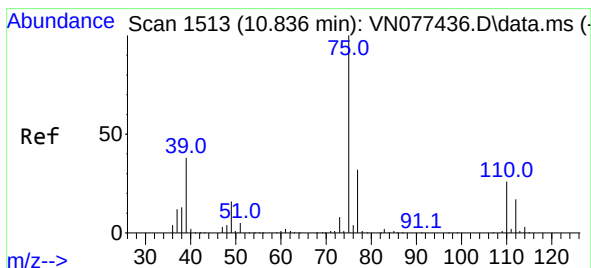
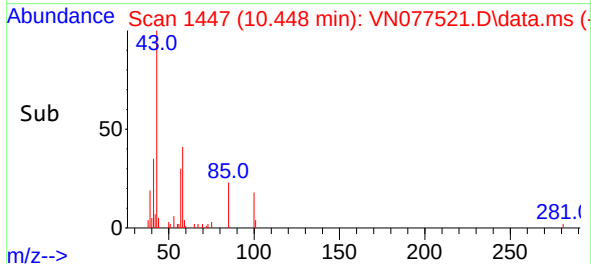
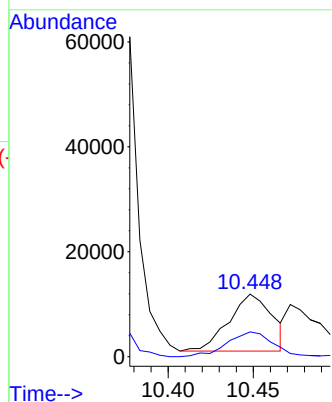
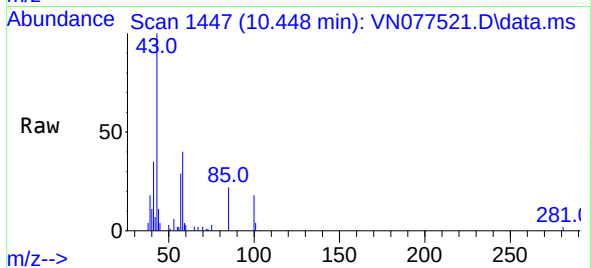




#51
4-Methyl-2-Pentanone
Concen: 2.206 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

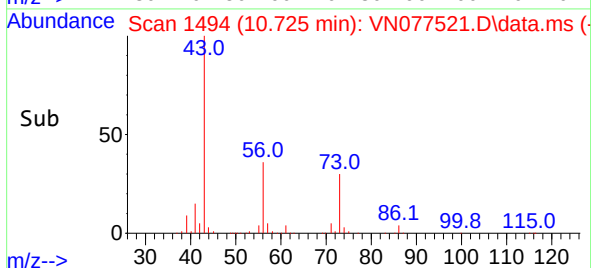
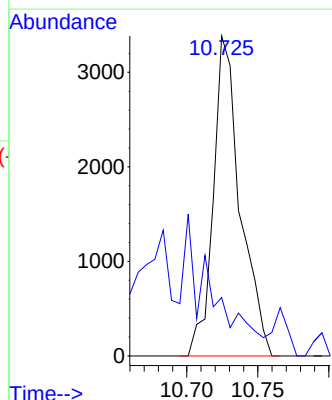
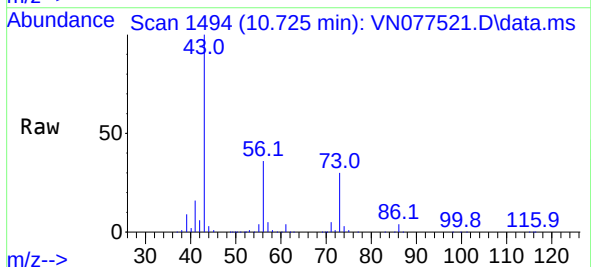
Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

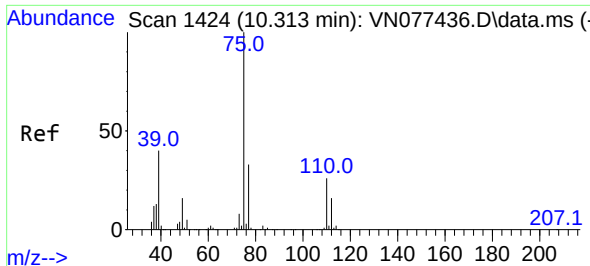
Tgt Ion: 43 Resp: 19124
Ion Ratio Lower Upper
43 100
58 47.1 36.6 54.8



#53
t-1,3-Dichloropropene
Concen: 0.350 ug/l
RT: 10.725 min Scan# 1494
Delta R.T. -0.112 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion: 75 Resp: 4458
Ion Ratio Lower Upper
75 100
77 3.2 25.4 38.0#

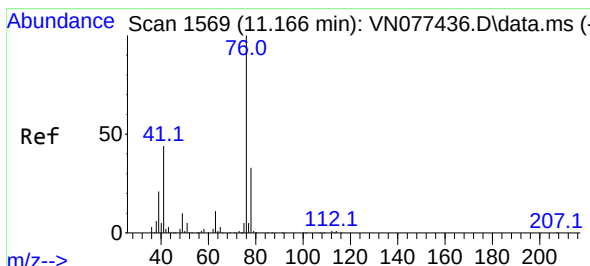
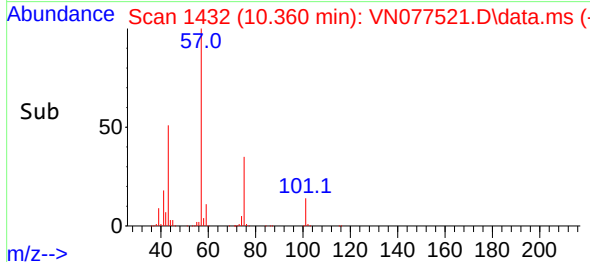
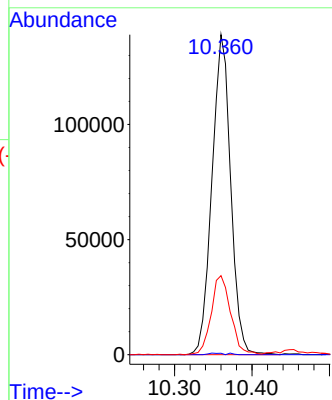
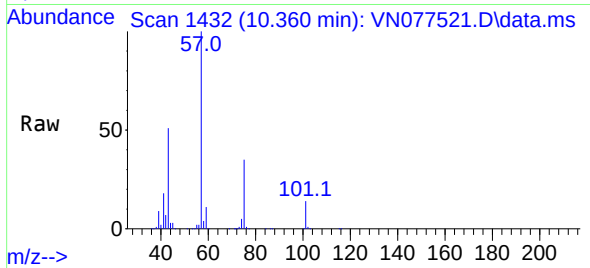




#54
cis-1,3-Dichloropropene
Concen: 16.812 ug/l
RT: 10.360 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

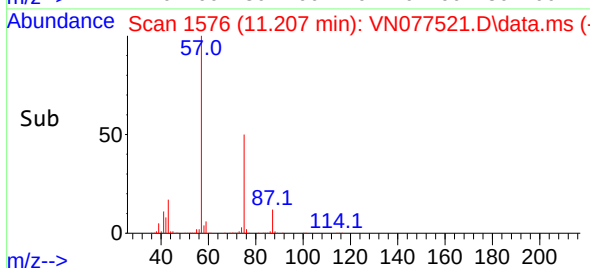
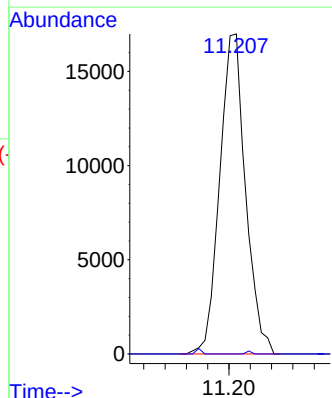
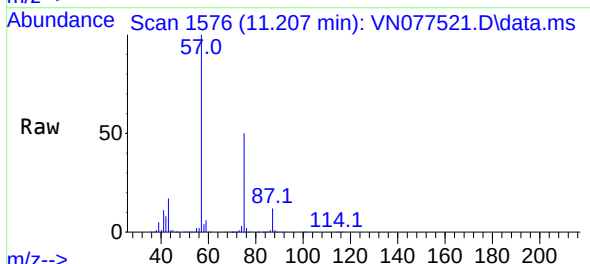
Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

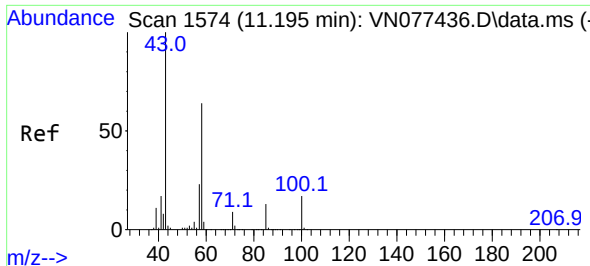
Tgt Ion: 75 Resp: 233329
Ion Ratio Lower Upper
75 100
77 0.5 26.1 39.1#
39 24.4 31.6 47.4#



#57
1,3-Dichloropropane
Concen: 1.988 ug/l
RT: 11.207 min Scan# 1576
Delta R.T. 0.041 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion: 76 Resp: 28570
Ion Ratio Lower Upper
76 100
78 0.2 26.1 39.1#

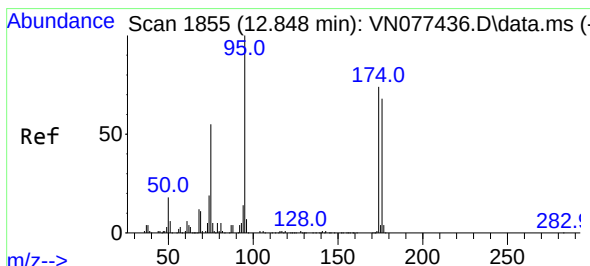
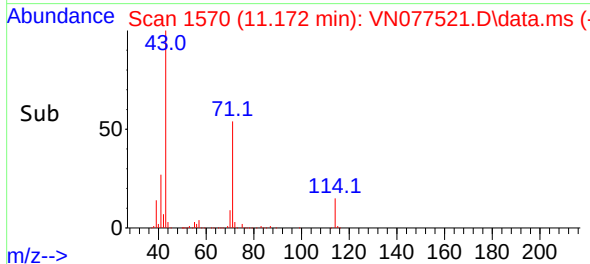
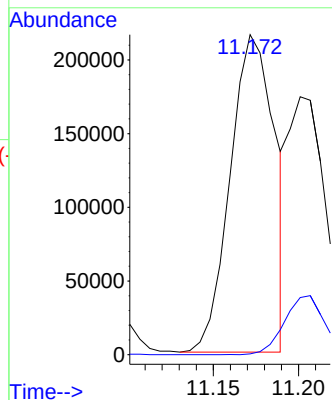
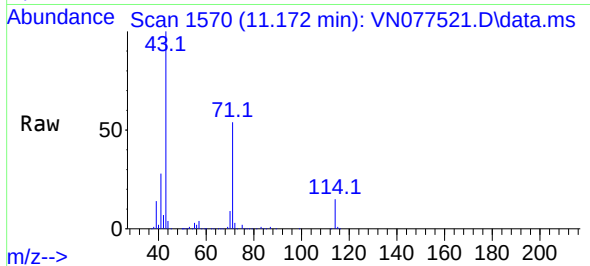




#59
2-Hexanone
Concen: 62.183 ug/l
RT: 11.172 min Scan# 11172
Delta R.T. -0.024 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

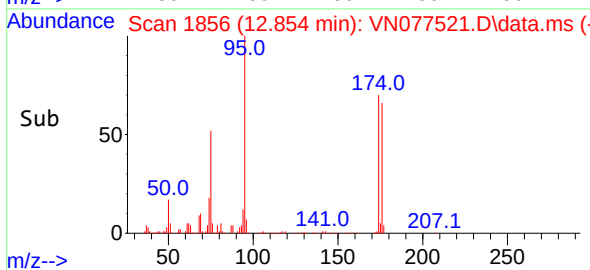
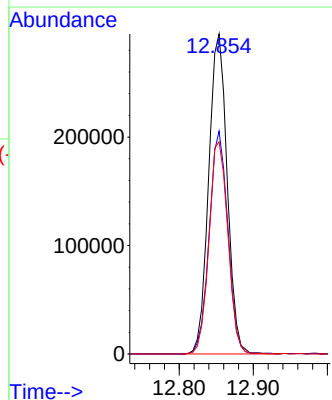
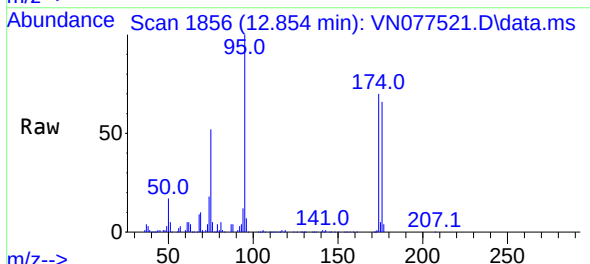
Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

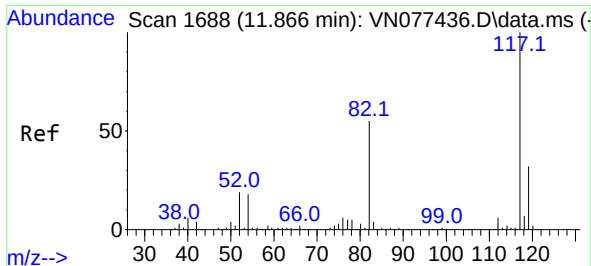
Tgt Ion: 43 Resp: 391826
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.402 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion: 95 Resp: 511326
Ion Ratio Lower Upper
95 100
174 70.0 0.0 143.8
176 67.6 0.0 135.8

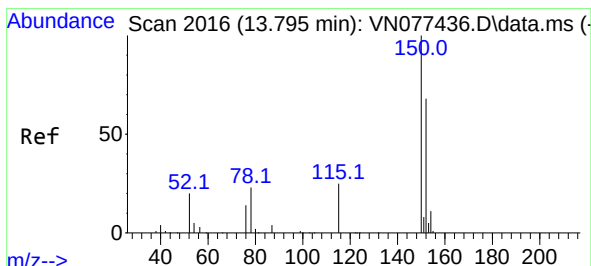
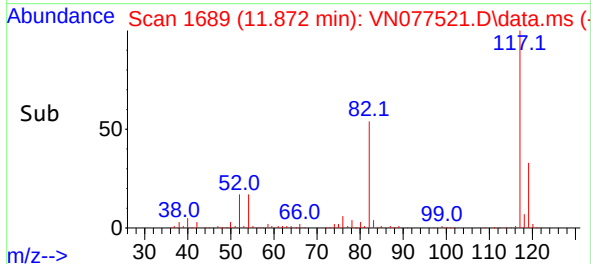
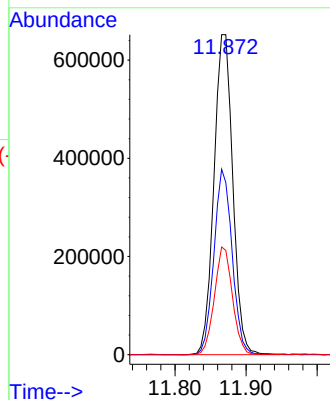
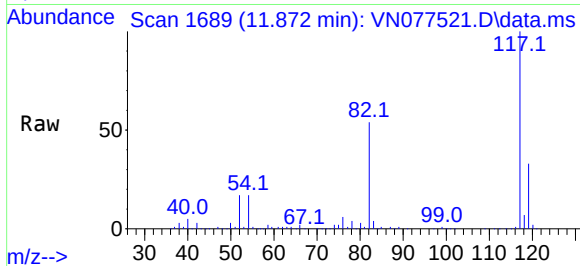




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

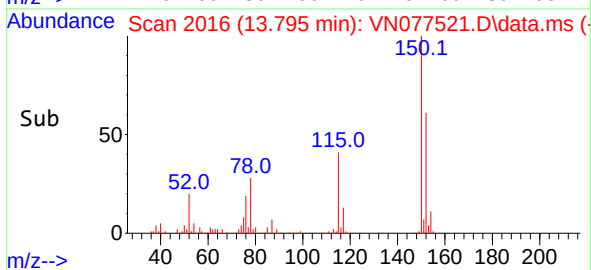
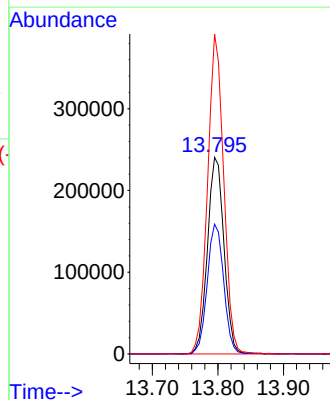
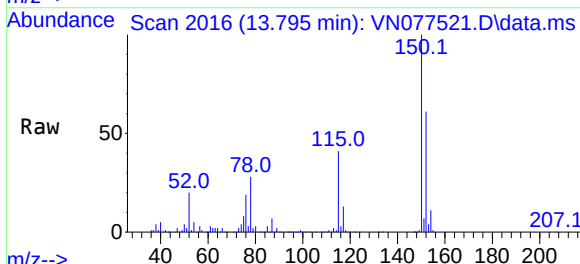
Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

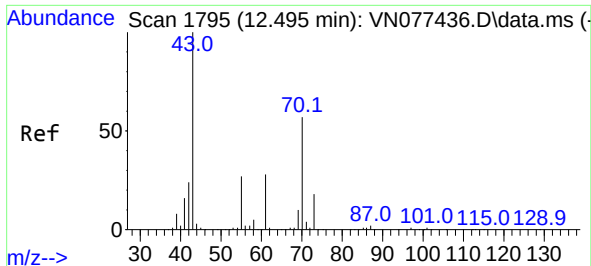
Tgt Ion:117 Resp: 1200492
Ion Ratio Lower Upper
117 100
82 53.8 44.0 66.0
119 32.6 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion:152 Resp: 422584
Ion Ratio Lower Upper
152 100
115 66.0 32.3 96.8
150 157.9 0.0 355.8

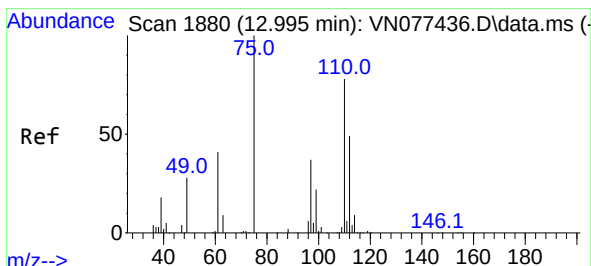
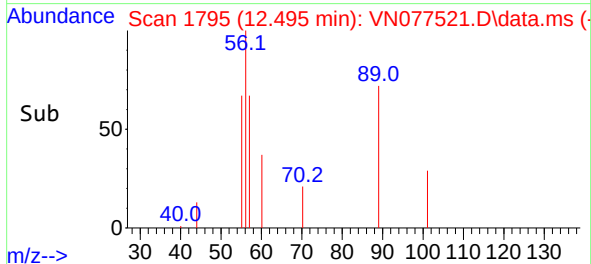
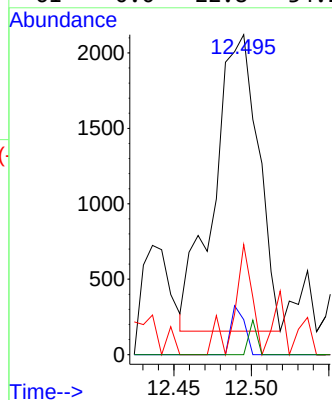
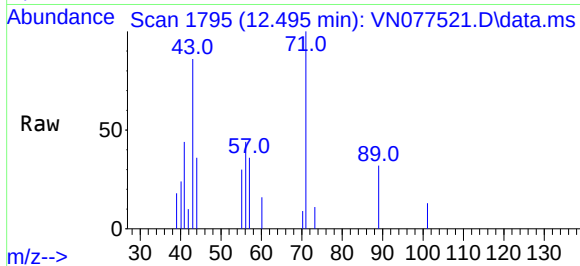




#74
N-amy1 acetate
Concen: 0.337 ug/l
RT: 12.495 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

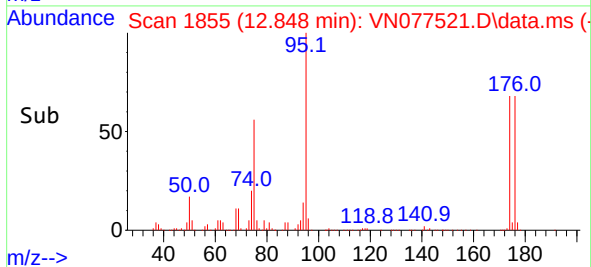
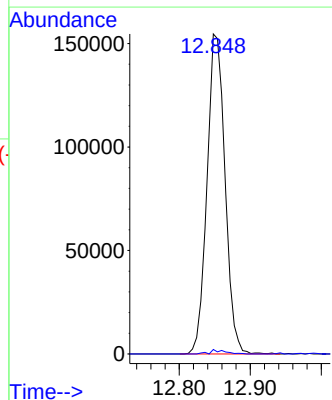
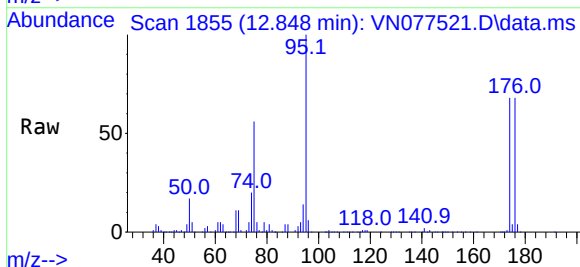
Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

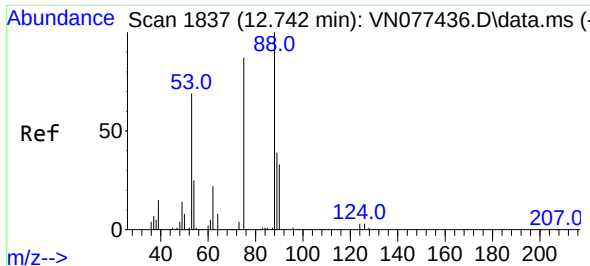
Tgt Ion:	43	Resp:	3907
Ion	Ratio	Lower	Upper
43	100		
70	5.0	43.4	65.2#
55	14.8	21.4	32.0#
61	0.0	22.8	34.2#



#76
1,2,3-Trichloropropane
Concen: 27.798 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion:	75	Resp:	273167
Ion	Ratio	Lower	Upper
75	100		
77	1.1	84.5	253.5#

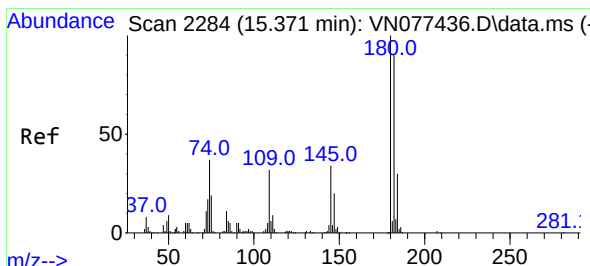
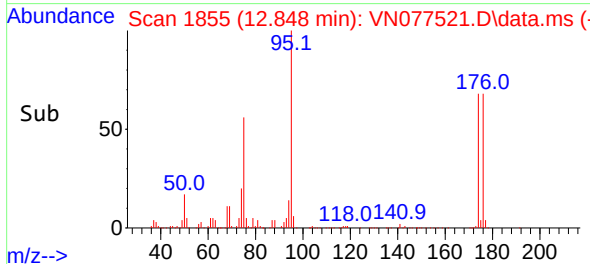
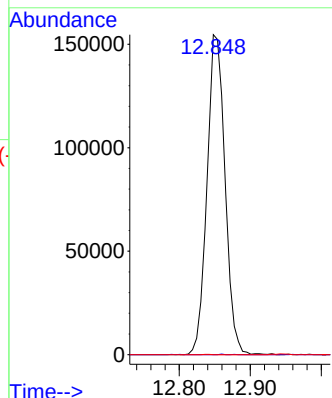
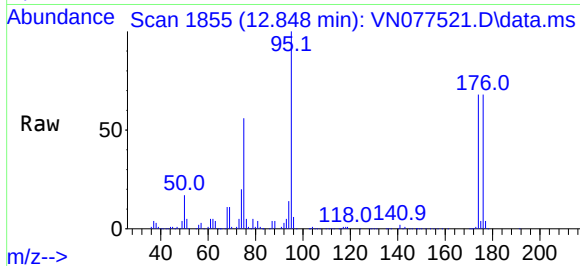




#81
trans-1,4-Dichloro-2-butene
Concen: 78.535 ug/l
RT: 12.848 min Scan# 1837
Delta R.T. 0.106 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

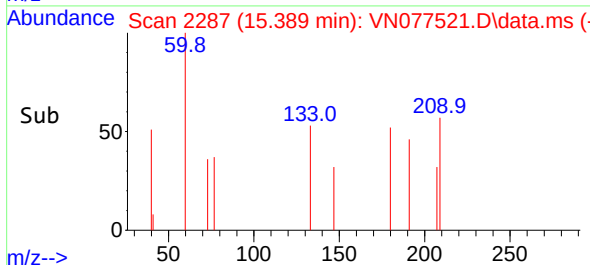
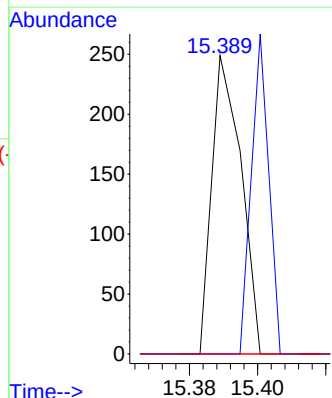
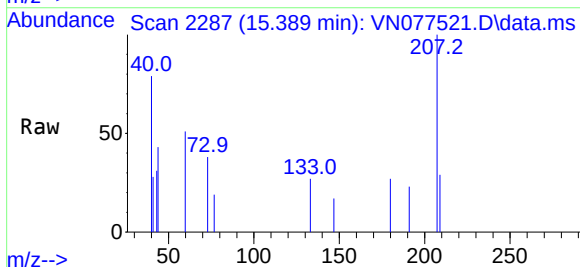
Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

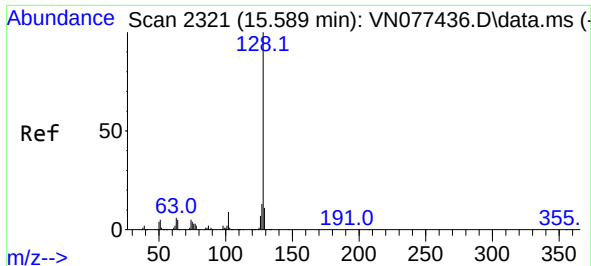
Tgt Ion: 75 Resp: 273167
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.845 ug/l
RT: 15.389 min Scan# 2287
Delta R.T. 0.018 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion: 180 Resp: 148
Ion Ratio Lower Upper
180 100
182 63.5 46.1 138.2
145 0.0 16.6 49.8#

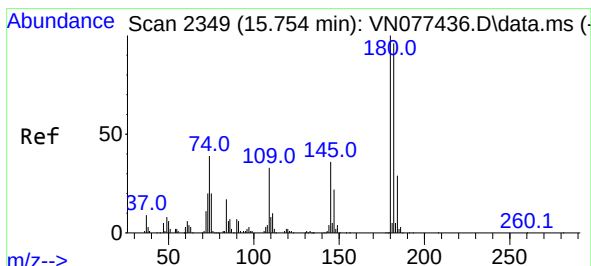
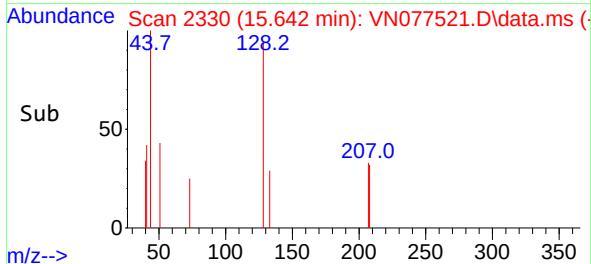
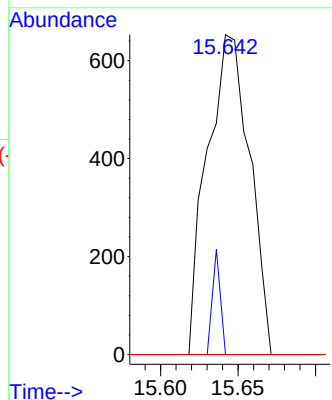
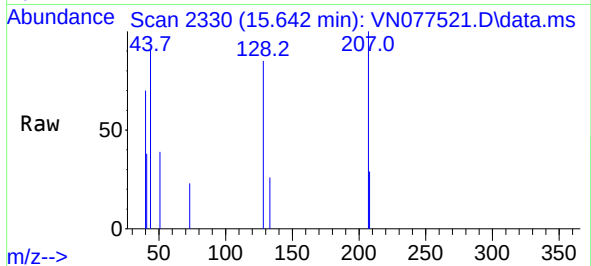




#95
Naphthalene
Concen: 1.251 ug/l
RT: 15.642 min Scan# 21
Delta R.T. 0.053 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Instrument :
MSVOA_N
ClientSampleId :
PB152434ZHE#05

Tgt Ion:128 Resp: 1243
Ion Ratio Lower Upper
128 100
127 6.1 10.0 15.0#
129 0.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.553 ug/l
RT: 15.848 min Scan# 2365
Delta R.T. 0.094 min
Lab File: VN077521.D
Acq: 29 Apr 2023 16:04

Tgt Ion:180 Resp: 223
Ion Ratio Lower Upper
180 100
182 52.0 46.2 138.6
145 0.0 17.5 52.6#

