

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062922\
 Data File : VN073249.D
 Acq On : 29 Jun 2022 17:43
 Operator : JC\MD
 Sample : N3409-15 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP061722

Quant Time: Jun 30 07:00:33 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 01:54:03 2022
 Response via : Initial Calibration

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

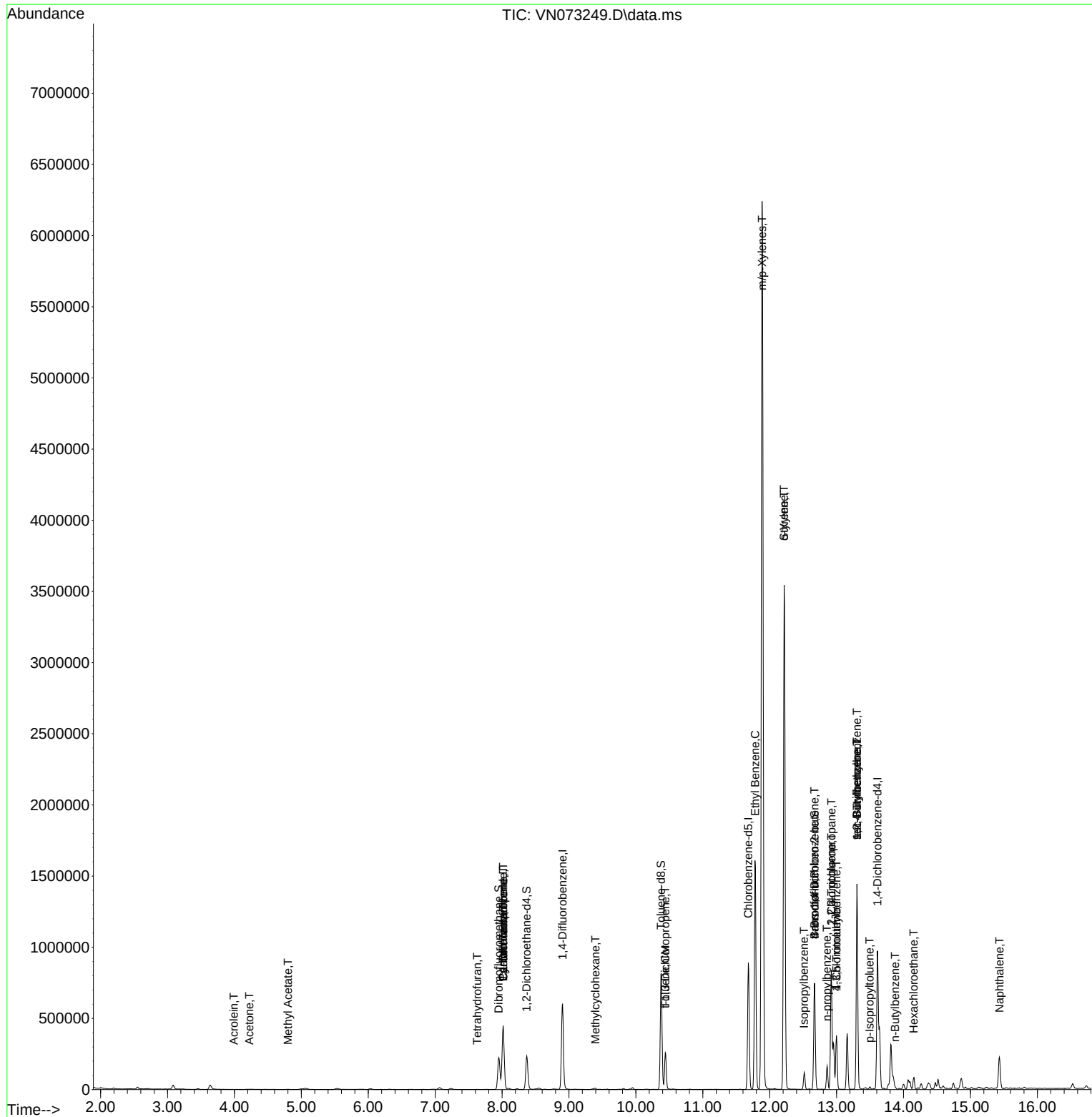
Internal Standards						
1) Pentafluorobenzene	8.016	168	329111	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	538081	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	504866	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	256380	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	201287	42.367	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	84.740%		
35) Dibromofluoromethane	7.951	113	168891	47.177	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.360%		
50) Toluene-d8	10.374	98	568812	44.737	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	89.480%		
62) 4-Bromofluorobenzene	12.668	95	261585	53.535	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	107.080%		
Target Compounds						Qvalue
13) Acrolein	3.993	56	174	0.239	ug/l #	16
16) Acetone	4.222	43	712	0.267	ug/l	97
18) Methyl Acetate	4.798	43	3826	0.512	ug/l #	64
29) Tetrahydrofuran	7.628	42	618	0.213	ug/l #	58
31) Cyclohexane	8.016	56	10268	1.320	ug/l #	32
36) 1,1-Dichloropropene	8.016	75	26719	4.851	ug/l #	49
38) Carbon Tetrachloride	8.016	117	32727	5.745	ug/l #	16
39) Methylcyclohexane	9.398	83	3784	0.552	ug/l #	81
52) Toluene	10.439	92	109783	10.450	ug/l	100
53) t-1,3-Dichloropropene	10.439	75	1360	0.217	ug/l #	1
67) Ethyl Benzene	11.780	91	1170550	56.468	ug/l	99
68) m/p-Xylenes	11.886	106	2017511	257.886	ug/l	94
69) o-Xylene	12.216	106	983510	123.147	ug/l	97
70) Styrene	12.216	104	51339	4.164	ug/l #	1
71) Bromoform	12.668	173	2253	0.733	ug/l #	1
73) Isopropylbenzene	12.516	105	75907	3.429	ug/l	100
76) 1,2,3-Trichloropropane	12.921	75	4658	0.695	ug/l #	1
78) n-propylbenzene	12.857	91	127579	5.187	ug/l	98
79) 2-Chlorotoluene	12.921	91	89527	5.751	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.998	105	202565	11.225	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.668	75	134254	54.922	ug/l #	10
82) 4-Chlorotoluene	12.998	91	21466	1.424	ug/l #	40
83) tert-Butylbenzene	13.304	119	96422	5.960	ug/l #	60
84) 1,2,4-Trimethylbenzene	13.304	105	795505	44.154	ug/l	98
85) sec-Butylbenzene	13.304	105	795505	36.619	ug/l #	56
86) p-Isopropyltoluene	13.492	119	9588	0.546	ug/l	92
89) n-Butylbenzene	13.874	91	5978	0.409	ug/l #	81
90) Hexachloroethane	14.151	117	4495	1.374	ug/l #	9
95) Naphthalene	15.433	128	204149	10.332	ug/l	99

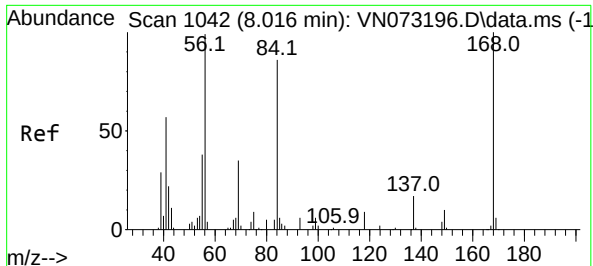
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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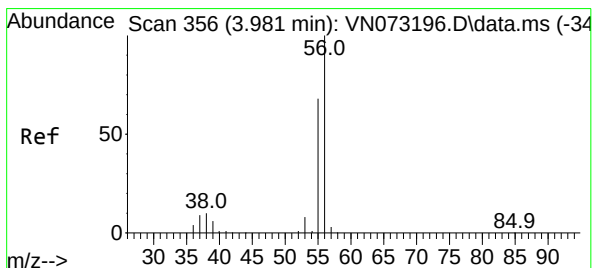
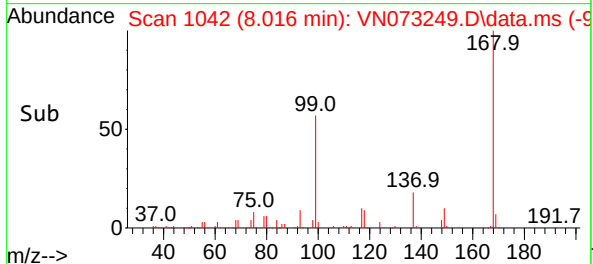
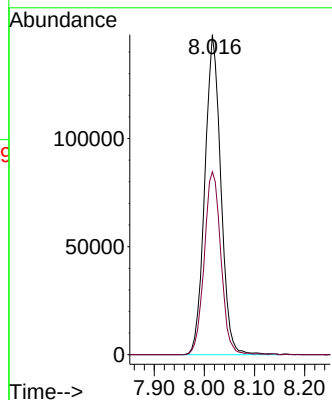
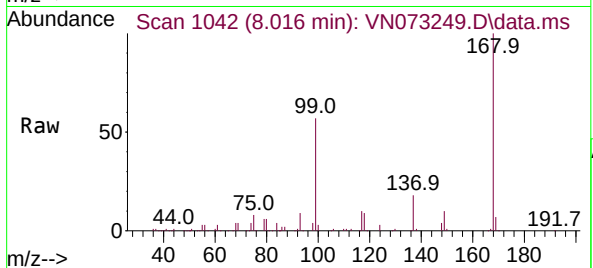




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

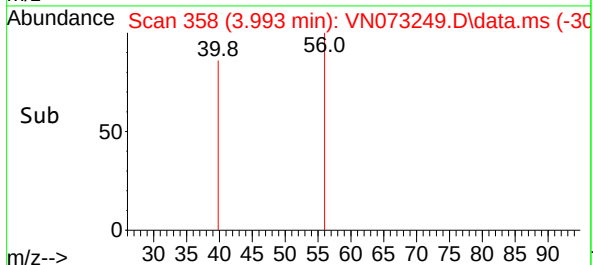
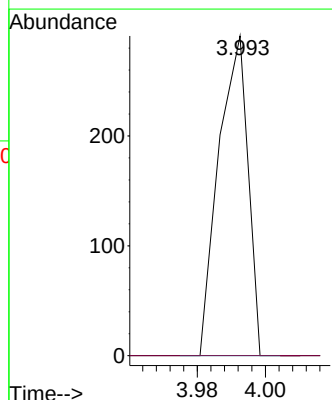
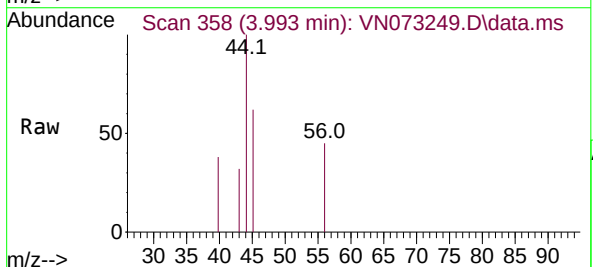
Instrument :
MSVOA_N
ClientSampleId :
DUP061722

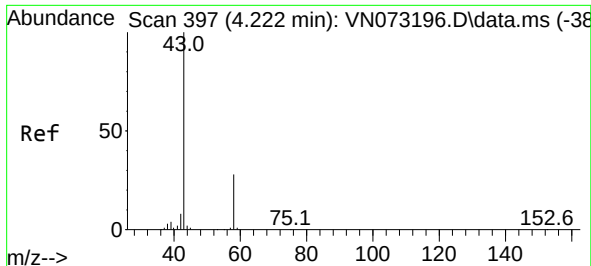
Tgt Ion:168 Resp: 329111
Ion Ratio Lower Upper
168 100
99 57.2 42.3 63.5



#13
Acrolein
Concen: 0.239 ug/l
RT: 3.993 min Scan# 358
Delta R.T. 0.012 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion: 56 Resp: 174
Ion Ratio Lower Upper
56 100
55 0.0 54.8 82.2#

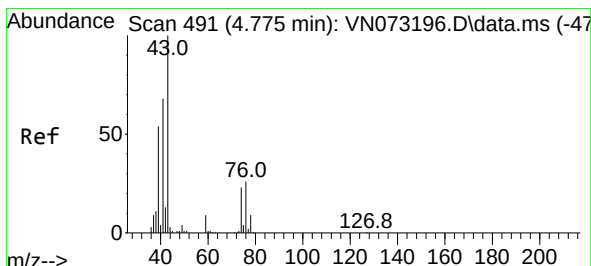
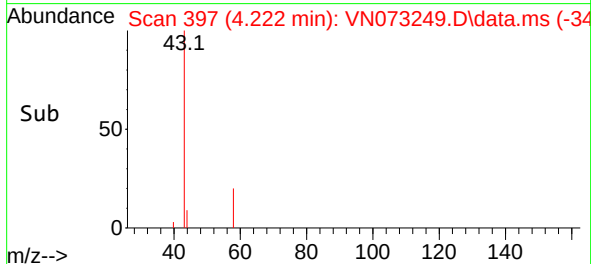
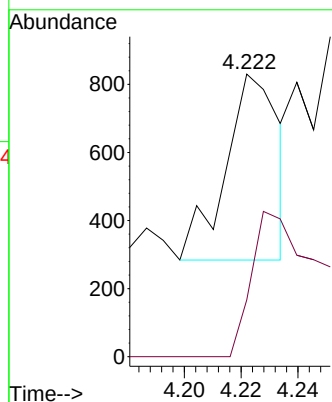
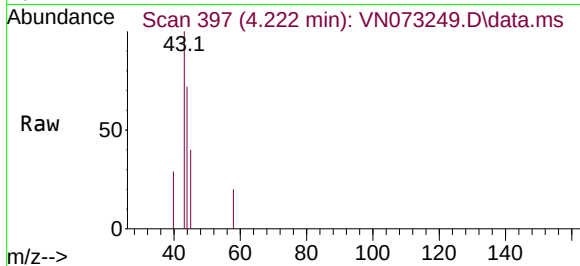




#16
Acetone
Concen: 0.267 ug/l
RT: 4.222 min Scan# 397
Delta R.T. -0.000 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

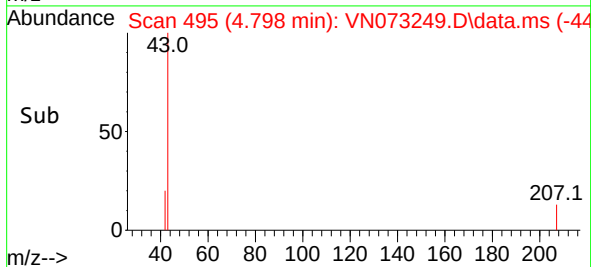
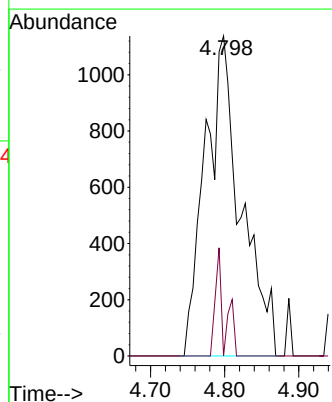
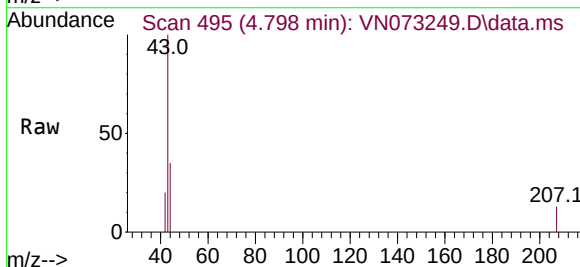
Instrument :
MSVOA_N
ClientSampleId :
DUP061722

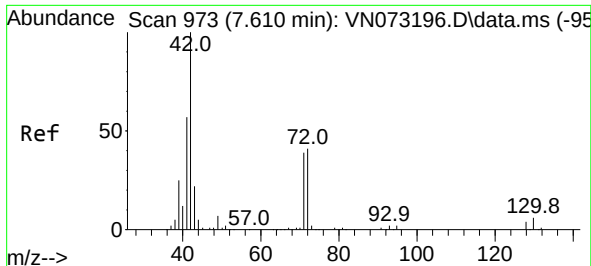
Tgt Ion: 43 Resp: 712
Ion Ratio Lower Upper
43 100
58 30.6 26.0 39.0



#18
Methyl Acetate
Concen: 0.512 ug/l
RT: 4.798 min Scan# 495
Delta R.T. 0.023 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion: 43 Resp: 3826
Ion Ratio Lower Upper
43 100
74 8.5 21.6 32.4#





#29

Tetrahydrofuran

Concen: 0.213 ug/l

RT: 7.628 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN073249.D

Acq: 29 Jun 2022 17:43

Instrument :

MSVOA_N

ClientSampleId :

DUP061722

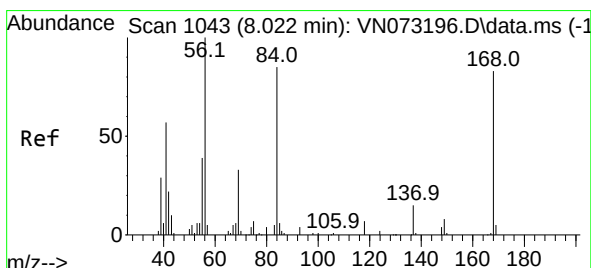
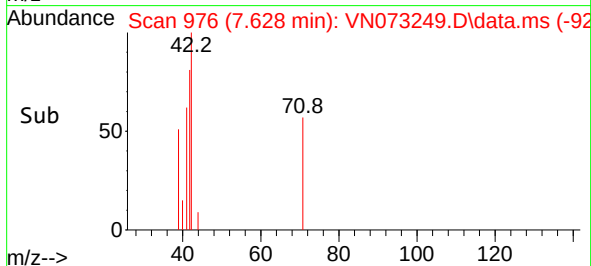
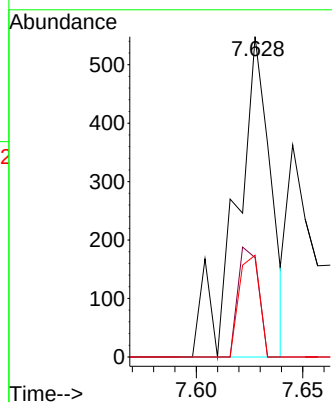
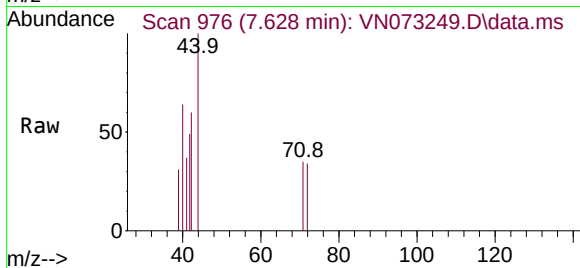
Tgt Ion: 42 Resp: 618

Ion Ratio Lower Upper

42 100

72 20.4 39.7 59.5#

71 18.9 36.6 55.0#



#31

Cyclohexane

Concen: 1.320 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.006 min

Lab File: VN073249.D

Acq: 29 Jun 2022 17:43

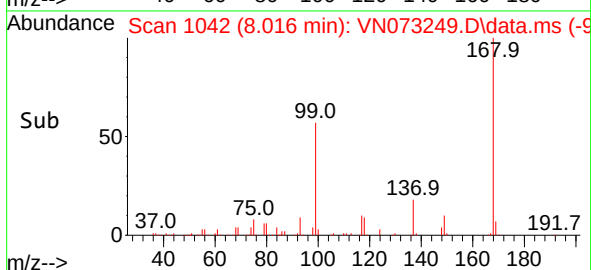
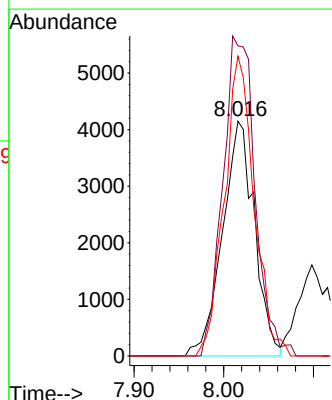
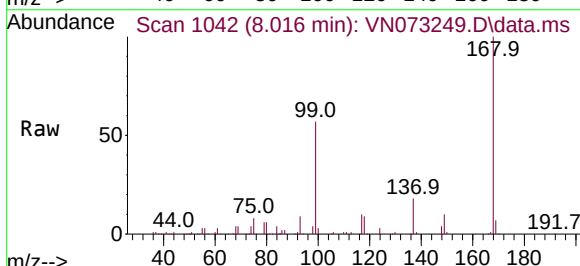
Tgt Ion: 56 Resp: 10268

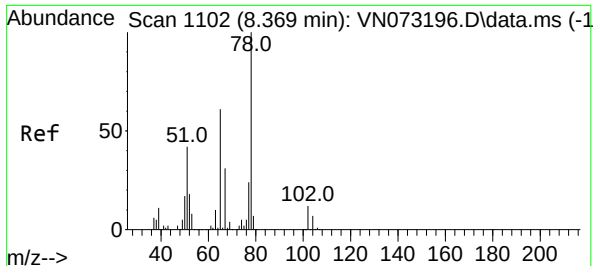
Ion Ratio Lower Upper

56 100

69 132.1 27.8 41.8#

84 127.6 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 42.367 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN073249.D

Acq: 29 Jun 2022 17:43

Instrument :

MSVOA_N

ClientSampleId :

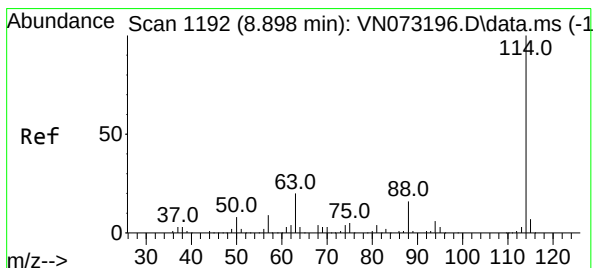
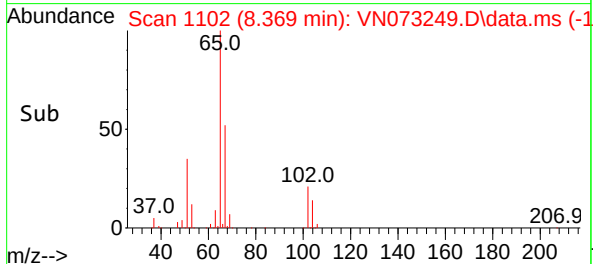
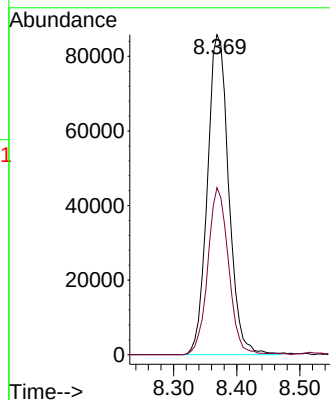
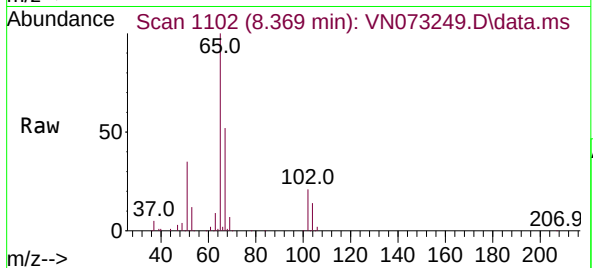
DUP061722

Tgt Ion: 65 Resp: 201287

Ion Ratio Lower Upper

65 100

67 50.7 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VN073249.D

Acq: 29 Jun 2022 17:43

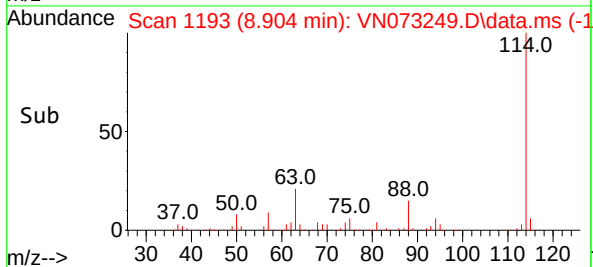
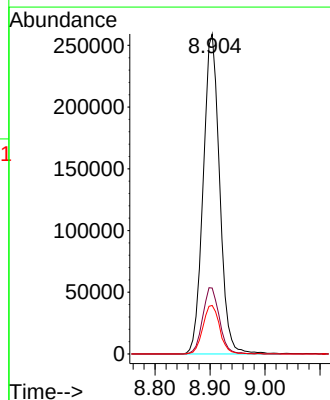
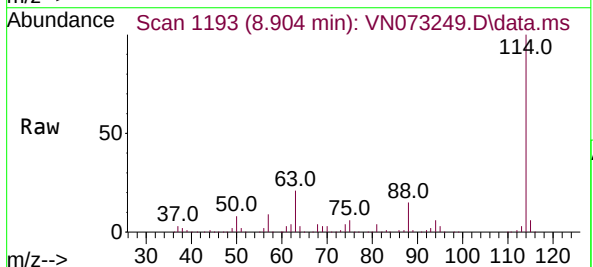
Tgt Ion: 114 Resp: 538081

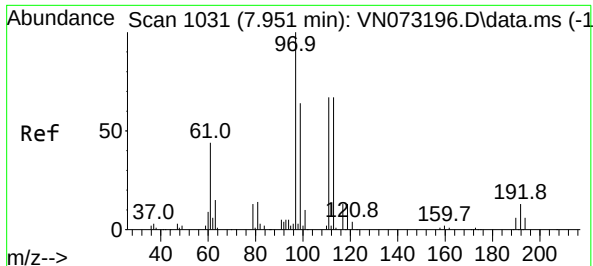
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.0

88 15.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 47.177 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073249.D

Acq: 29 Jun 2022 17:43

Instrument :

MSVOA_N

ClientSampleId :

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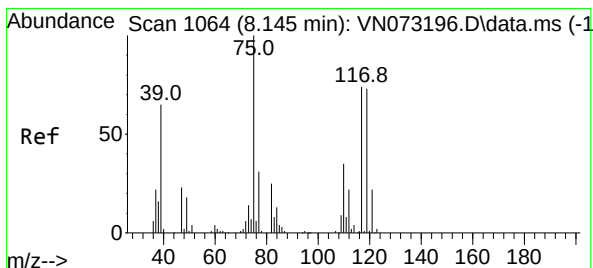
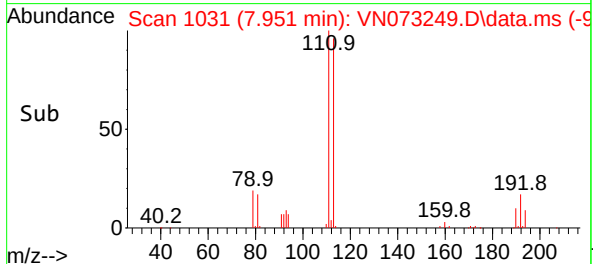
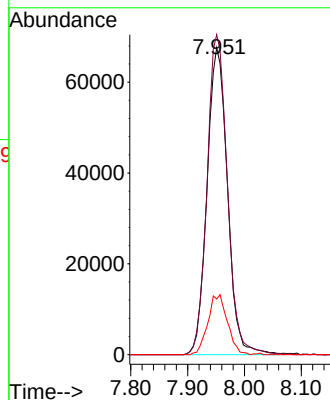
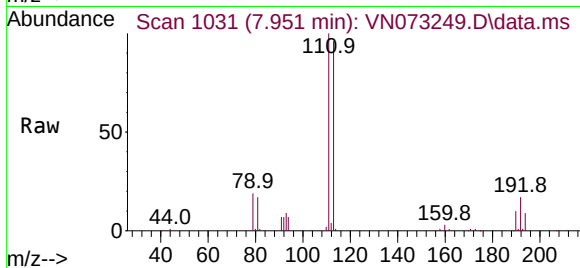
Tgt Ion:113 Resp: 168891

Ion Ratio Lower Upper

113 100

111 103.3 81.4 122.0

192 18.7 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.851 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.129 min

Lab File: VN073249.D

Acq: 29 Jun 2022 17:43

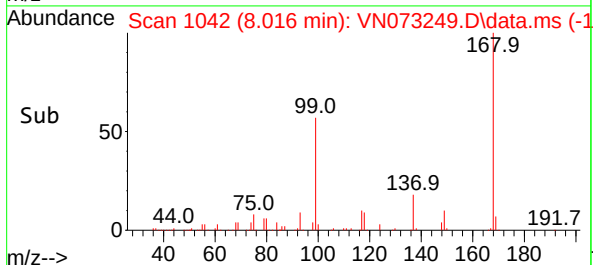
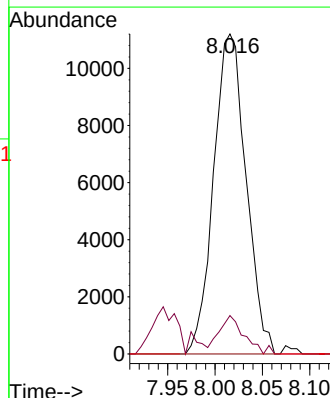
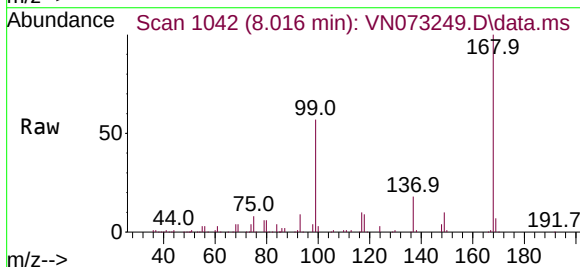
Tgt Ion: 75 Resp: 26719

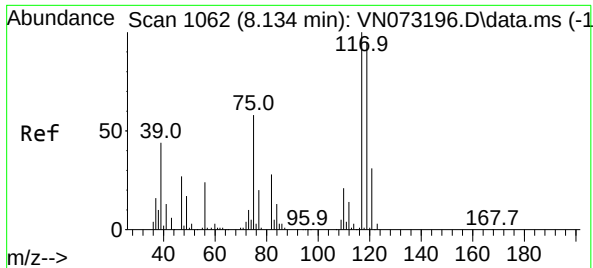
Ion Ratio Lower Upper

75 100

110 9.4 18.3 54.8#

77 0.0 25.1 37.7#

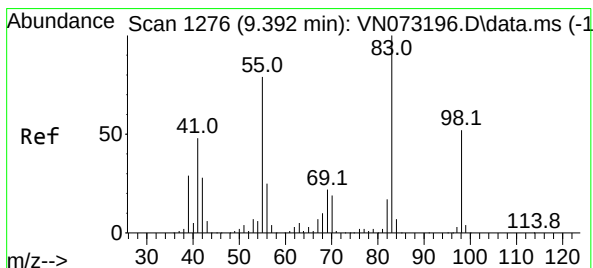
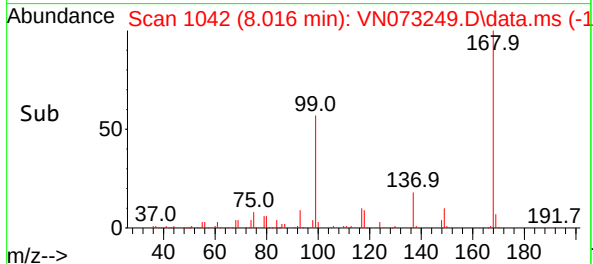
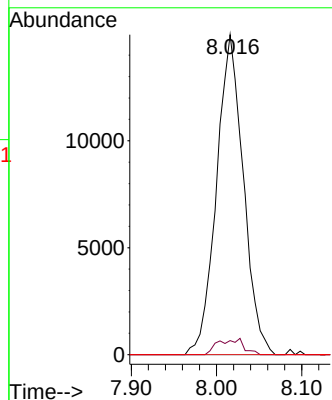
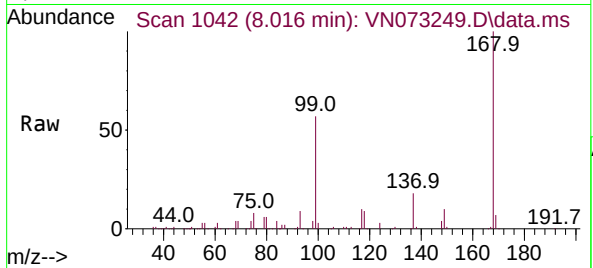




#38
Carbon Tetrachloride
Concen: 5.745 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.118 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

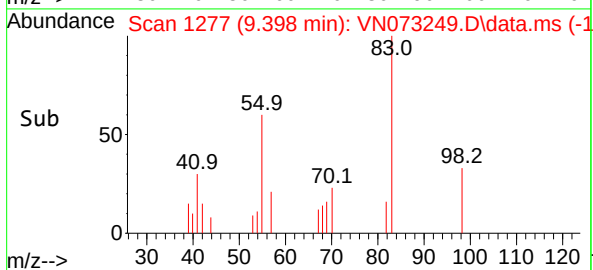
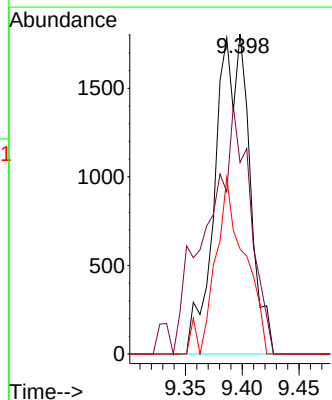
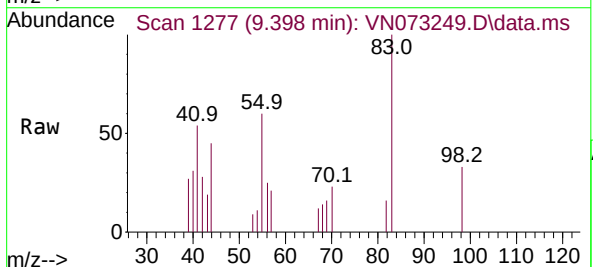
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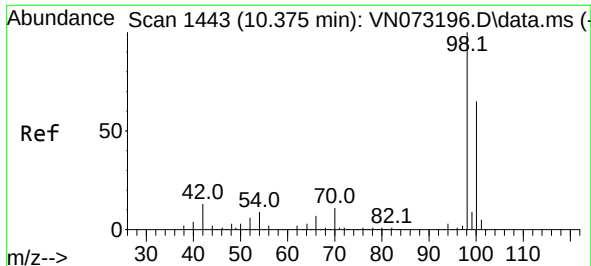
Tgt Ion:117 Resp: 32727
Ion Ratio Lower Upper
117 100
119 4.4 75.8 113.8#
121 0.0 24.6 37.0#



#39
Methylcyclohexane
Concen: 0.552 ug/l
RT: 9.398 min Scan# 1277
Delta R.T. 0.006 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion: 83 Resp: 3784
Ion Ratio Lower Upper
83 100
55 59.9 57.8 86.8
98 32.8 39.4 59.2#

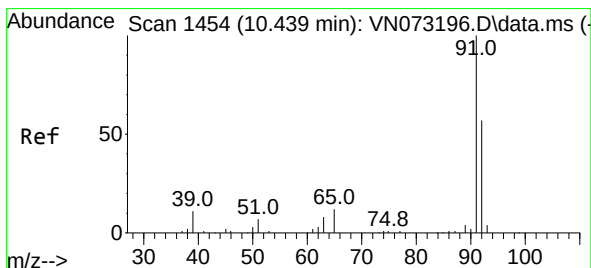
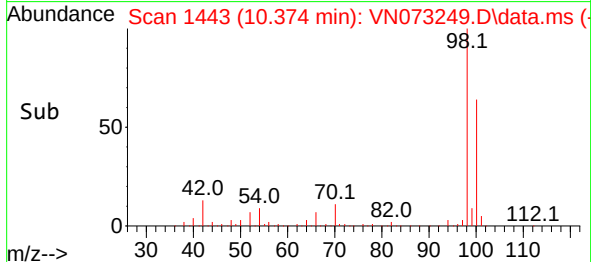
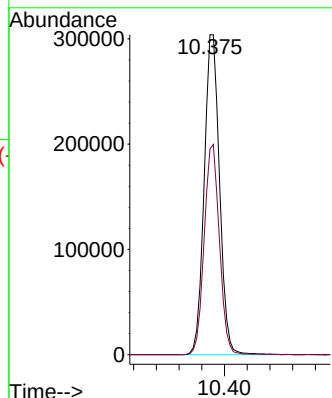
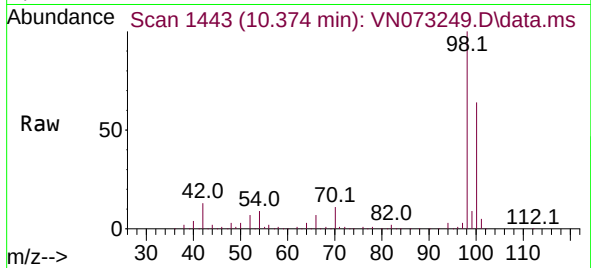




#50
Toluene-d8
Concen: 44.737 ug/l
RT: 10.374 min Scan# 1443
Delta R.T. -0.001 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

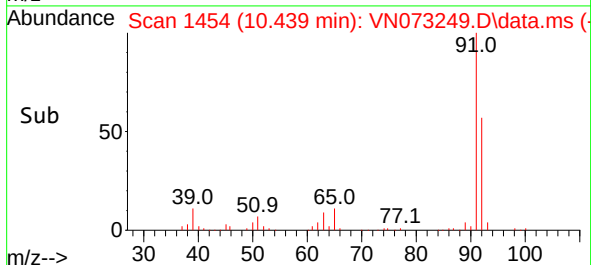
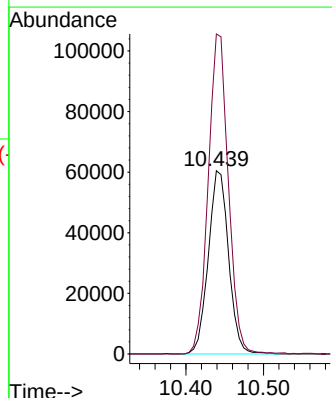
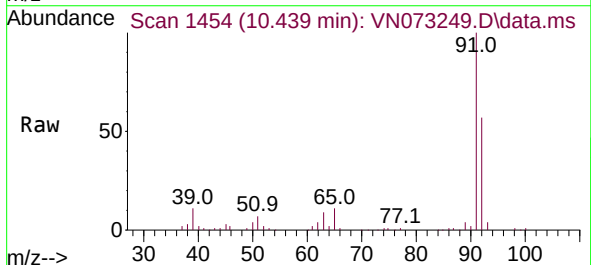
Instrument :
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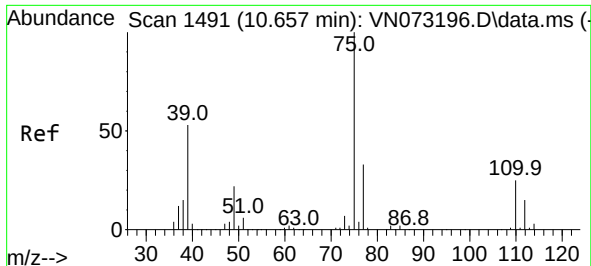
Tgt Ion: 98 Resp: 568812
Ion Ratio Lower Upper
98 100
100 65.3 52.6 78.8



#52
Toluene
Concen: 10.450 ug/l
RT: 10.439 min Scan# 1454
Delta R.T. 0.000 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion: 92 Resp: 109783
Ion Ratio Lower Upper
92 100
91 173.7 138.6 207.8

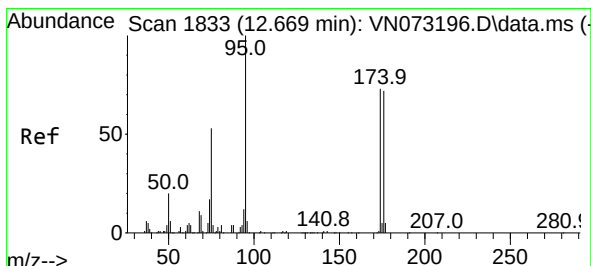
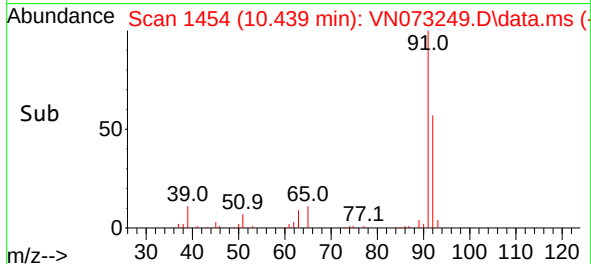
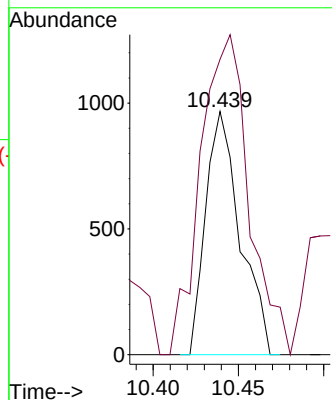
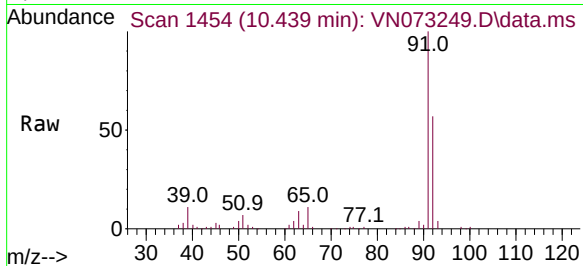




#53
t-1,3-Dichloropropene
Concen: 0.217 ug/l
RT: 10.439 min Scan# 1491
Delta R.T. -0.218 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

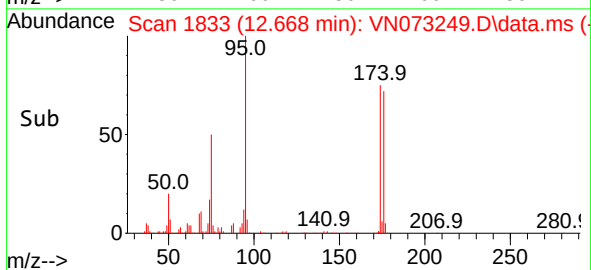
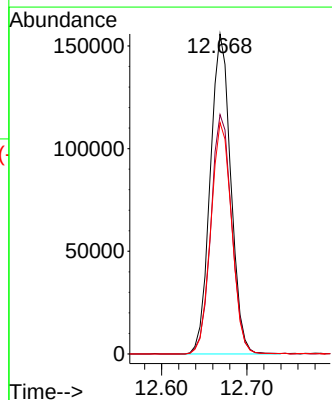
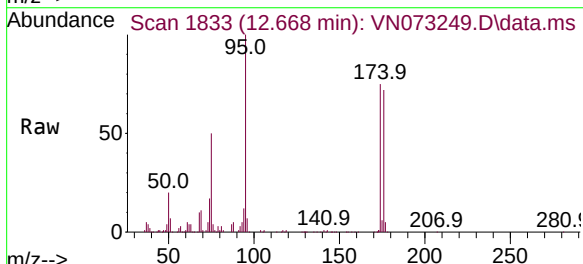
Instrument :
MSVOA_N
ClientSampleId :
DUP061722

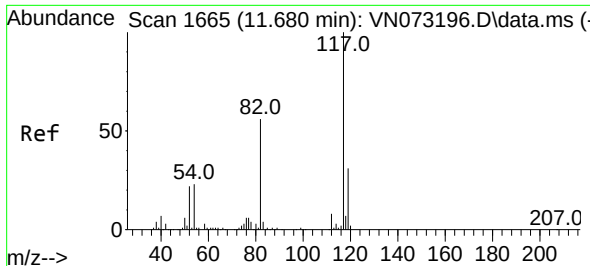
Tgt Ion: 75 Resp: 1360
Ion Ratio Lower Upper
75 100
77 101.9 25.6 38.4#



#62
4-Bromofluorobenzene
Concen: 53.535 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.001 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion: 95 Resp: 261585
Ion Ratio Lower Upper
95 100
174 75.5 0.0 167.6
176 73.4 0.0 163.4

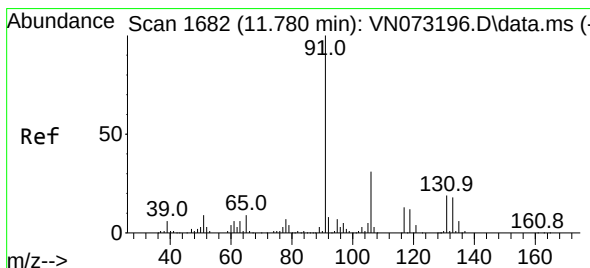
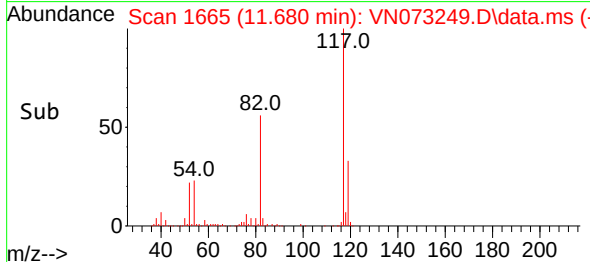
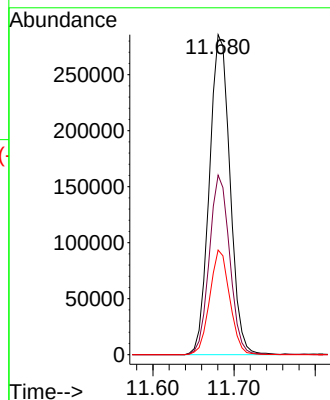
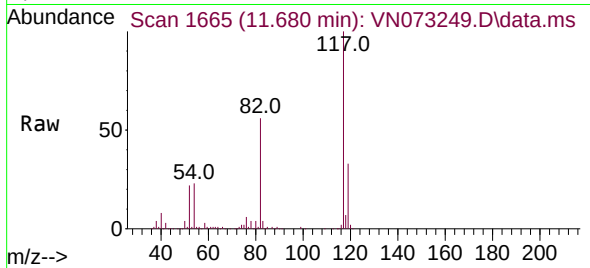




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

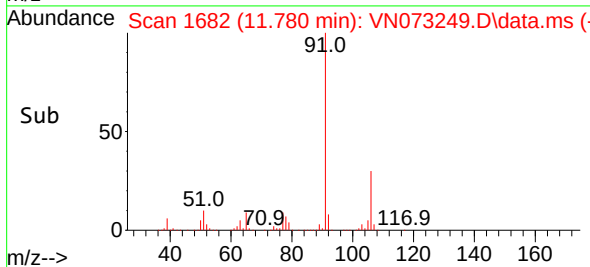
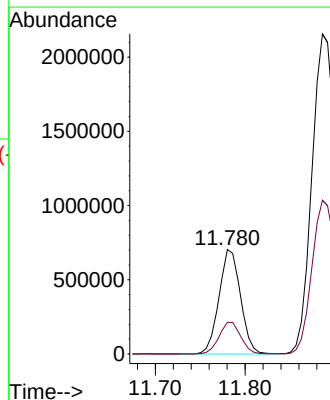
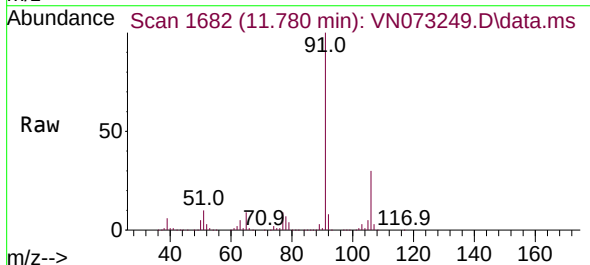
Instrument :
MSVOA_N
ClientSampleId :
DUP061722

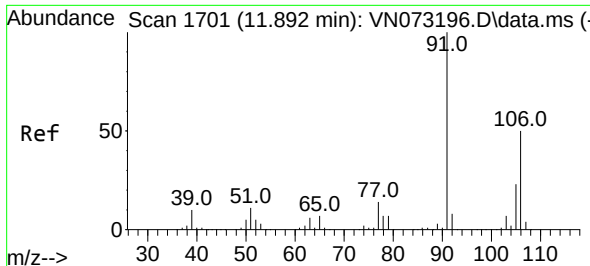
Tgt Ion:117 Resp: 504866
Ion Ratio Lower Upper
117 100
82 56.1 44.2 66.2
119 32.7 25.4 38.0



#67
Ethyl Benzene
Concen: 56.468 ug/l
RT: 11.780 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion: 91 Resp: 1170550
Ion Ratio Lower Upper
91 100
106 30.4 24.9 37.3

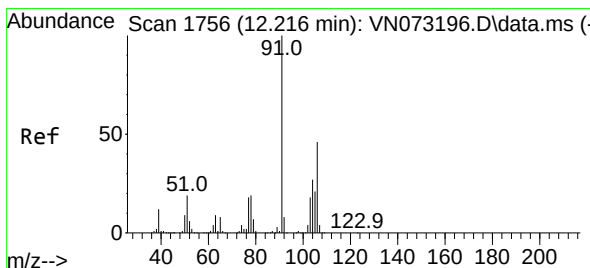
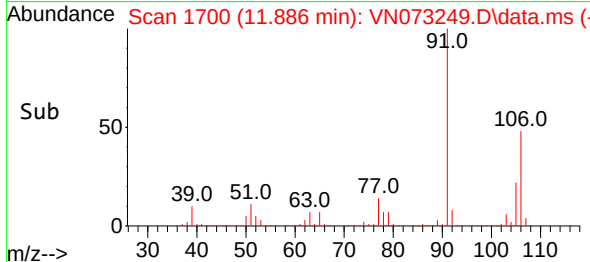
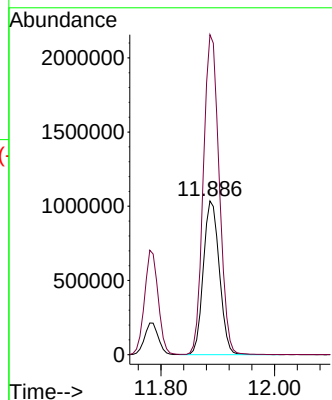
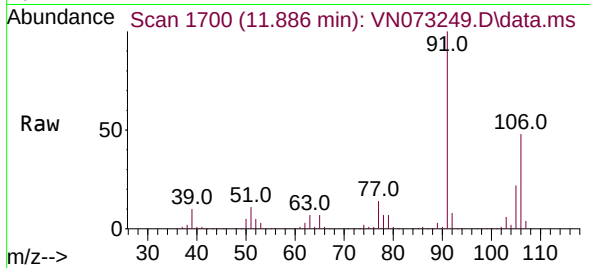




#68
m/p-Xylenes
Concen: 257.886 ug/l
RT: 11.886 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

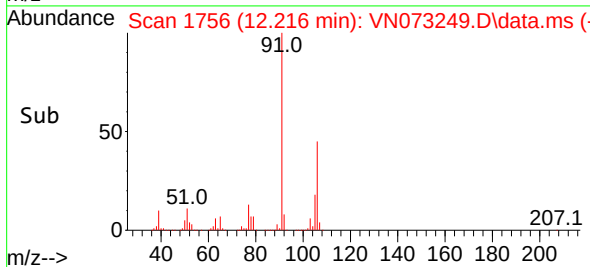
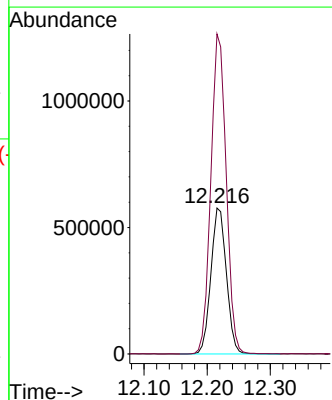
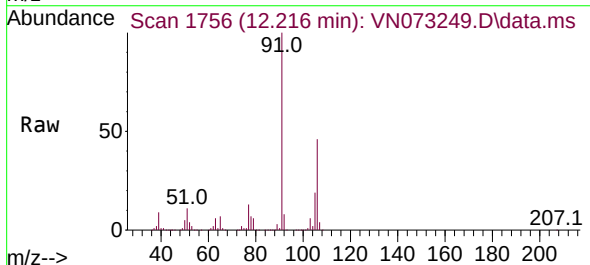
Instrument :
MSVOA_N
ClientSampleId :
DUP061722

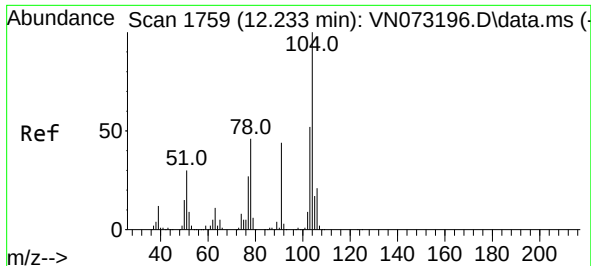
Tgt Ion:106 Resp: 2017511
Ion Ratio Lower Upper
106 100
91 207.0 158.9 238.3



#69
o-Xylene
Concen: 123.147 ug/l
RT: 12.216 min Scan# 1756
Delta R.T. -0.000 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion:106 Resp: 983510
Ion Ratio Lower Upper
106 100
91 217.5 106.0 318.0

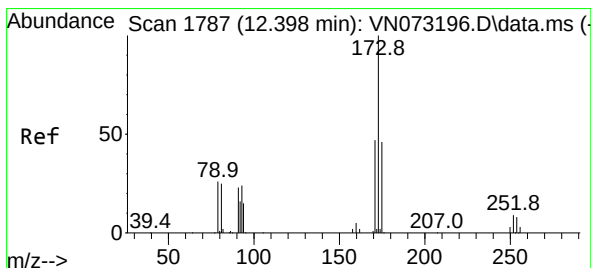
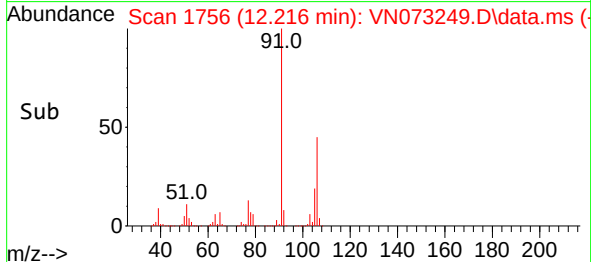
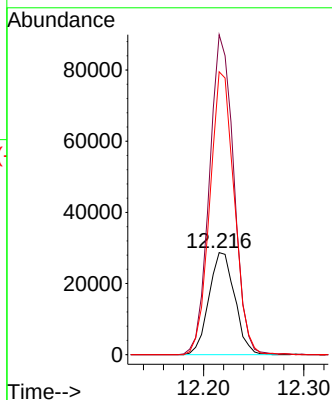
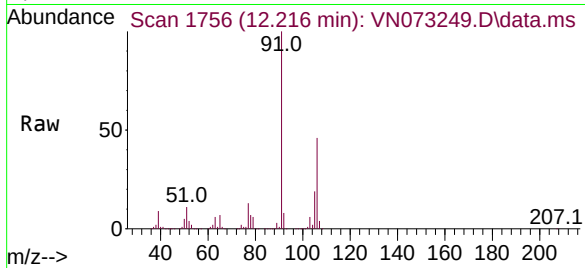




#70
Styrene
Concen: 4.164 ug/l
RT: 12.216 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

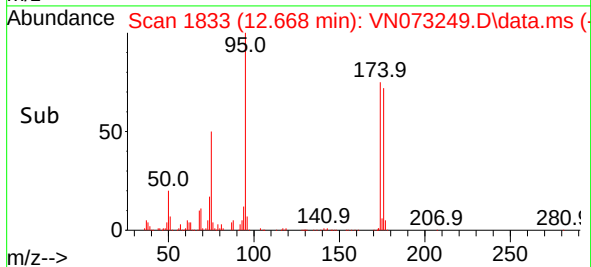
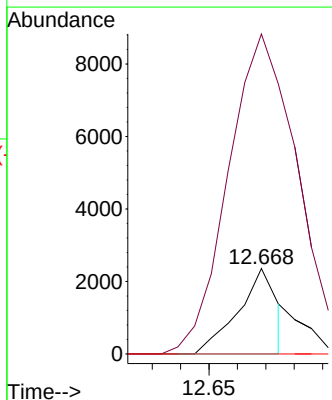
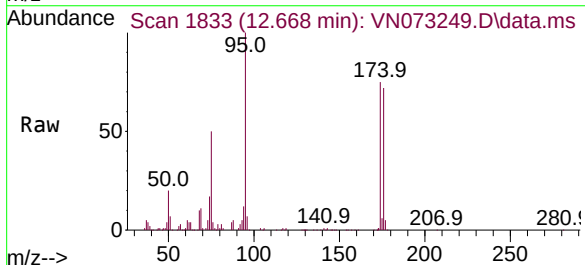
Instrument :
MSVOA_N
ClientSampleId :
DUP061722

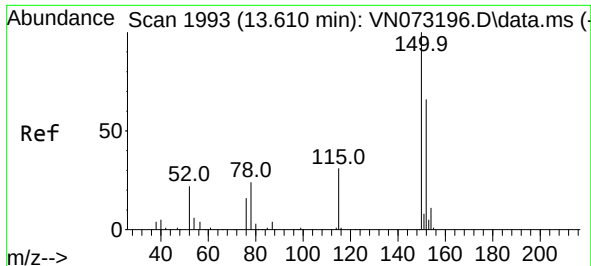
Tgt Ion:104 Resp: 51339
Ion Ratio Lower Upper
104 100
78 296.0 39.5 59.3#
103 263.1 44.0 66.0#



#71
Bromoform
Concen: 0.733 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.270 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion:173 Resp: 2253
Ion Ratio Lower Upper
173 100
175 501.5 24.6 73.6#
254 0.0 0.1 0.1#

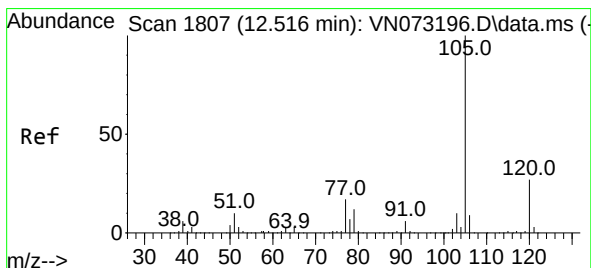
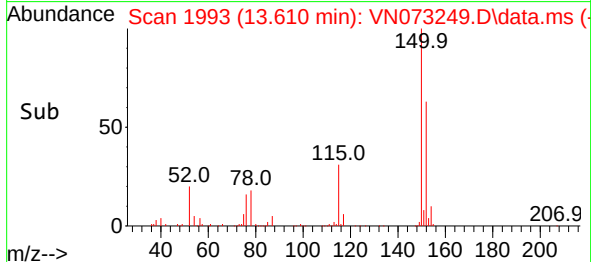
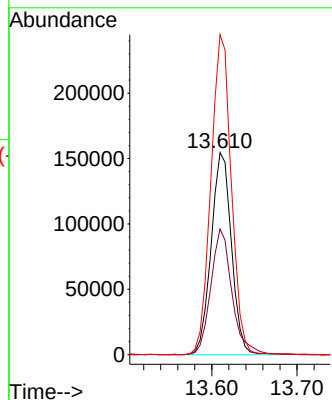
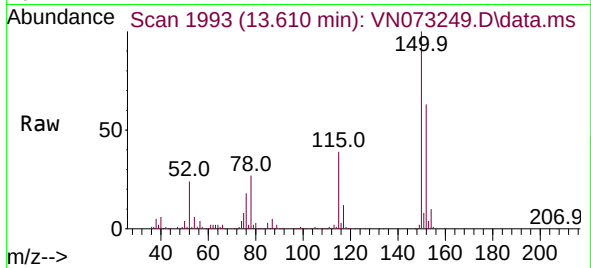




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. -0.000 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

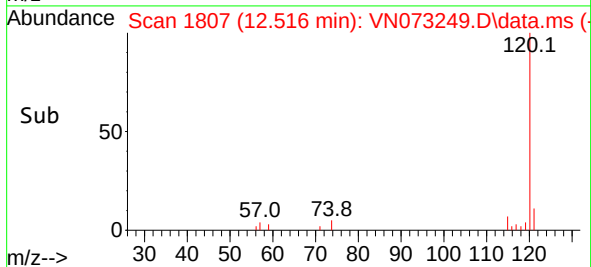
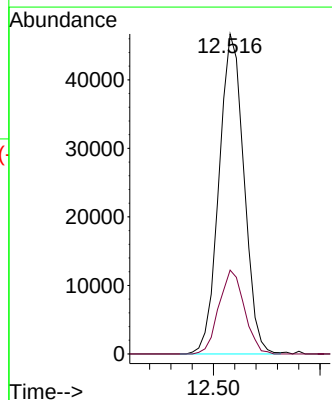
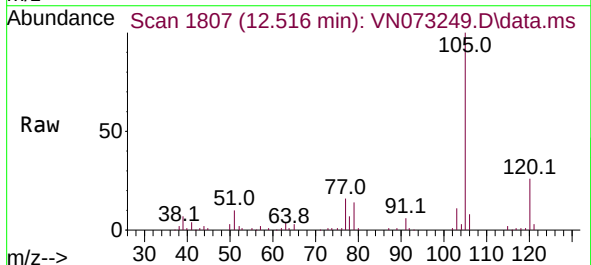
Instrument :
MSVOA_N
ClientSampleId :
DUP061722

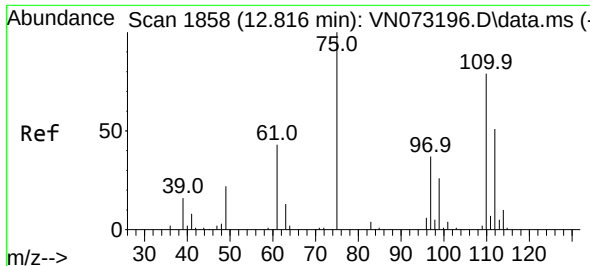
Tgt Ion:152 Resp: 256380
Ion Ratio Lower Upper
152 100
115 65.2 28.9 86.7
150 159.2 0.0 356.2



#73
Isopropylbenzene
Concen: 3.429 ug/l
RT: 12.516 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion:105 Resp: 75907
Ion Ratio Lower Upper
105 100
120 26.7 13.5 40.4

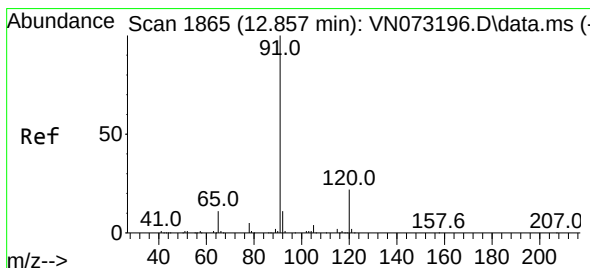
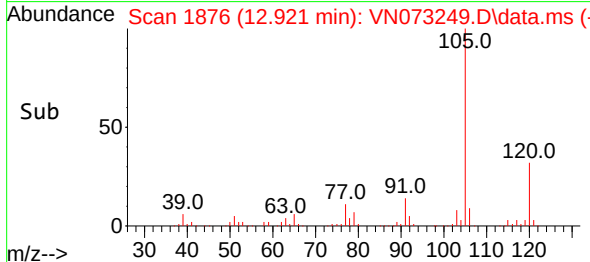
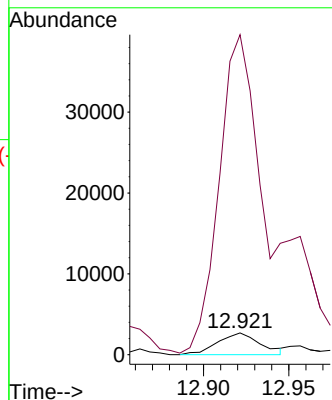
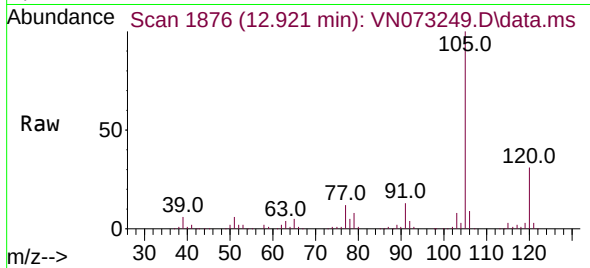




#76
1,2,3-Trichloropropane
Concen: 0.695 ug/l
RT: 12.921 min Scan# 1876
Delta R.T. 0.105 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

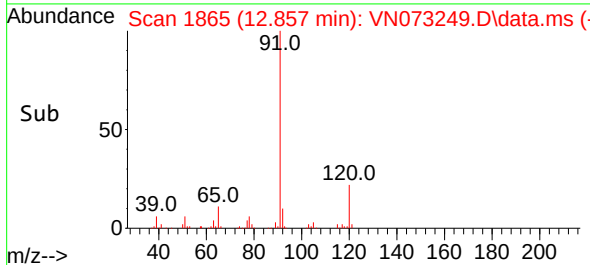
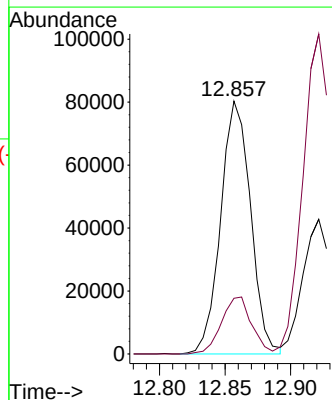
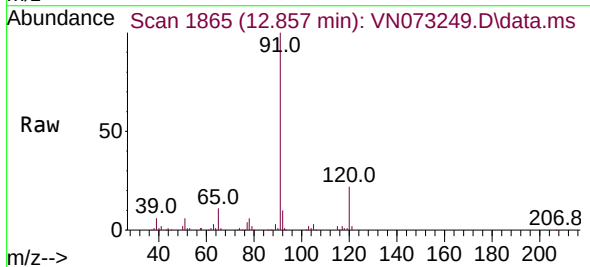
Instrument :
MSVOA_N
ClientSampleId :
DUP061722

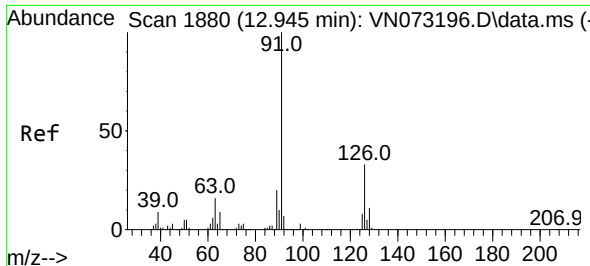
Tgt Ion: 75 Resp: 4658
Ion Ratio Lower Upper
75 100
77 1446.9 98.5 295.5#



#78
n-propylbenzene
Concen: 5.187 ug/l
RT: 12.857 min Scan# 1865
Delta R.T. -0.000 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion: 91 Resp: 127579
Ion Ratio Lower Upper
91 100
120 22.6 11.9 35.5

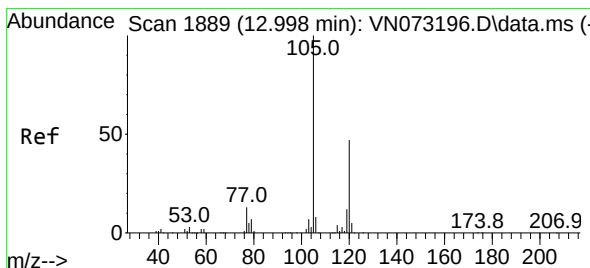
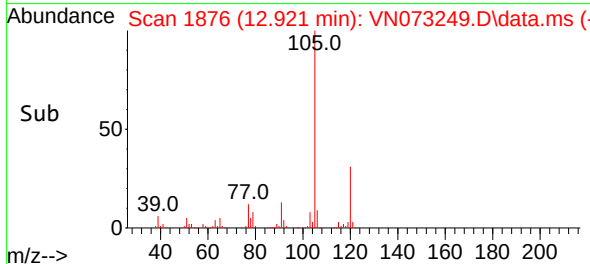
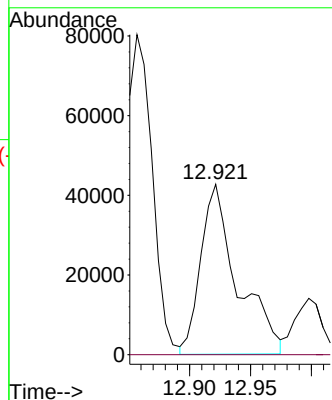
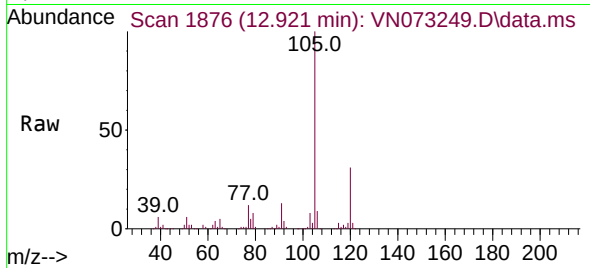




#79
2-Chlorotoluene
Concen: 5.751 ug/l
RT: 12.921 min Scan# 1876
Delta R.T. -0.024 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

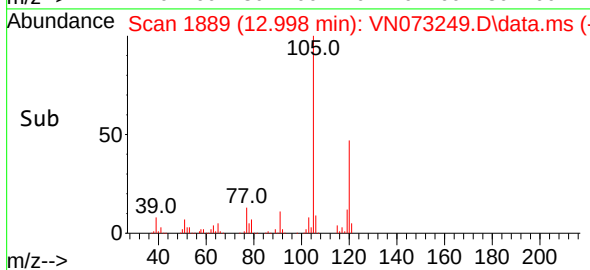
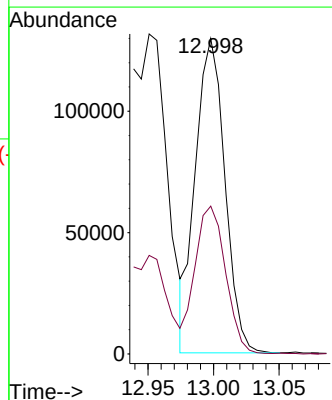
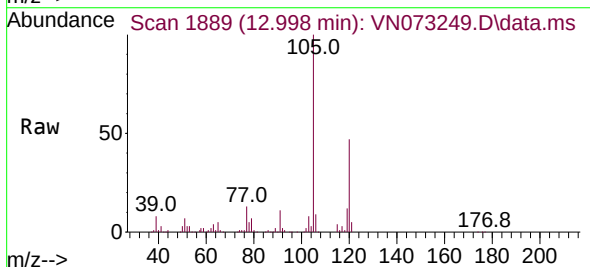
Instrument :
MSVOA_N
ClientSampleId :
DUP061722

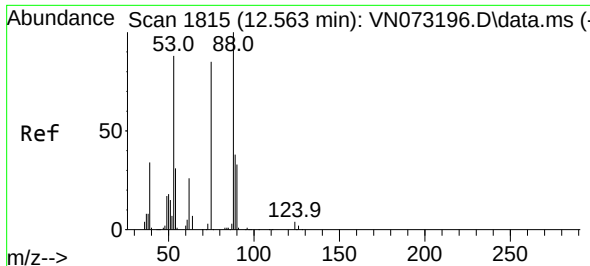
Tgt Ion: 91 Resp: 89527
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.9#



#80
1,3,5-Trimethylbenzene
Concen: 11.225 ug/l
RT: 12.998 min Scan# 1889
Delta R.T. -0.000 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion: 105 Resp: 202565
Ion Ratio Lower Upper
105 100
120 48.7 24.9 74.7

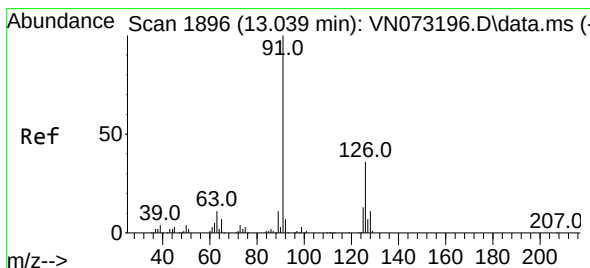
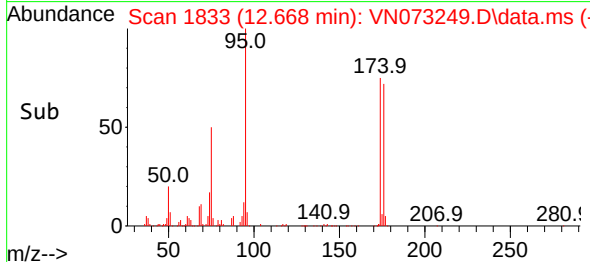
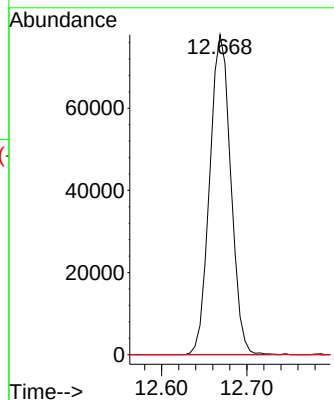
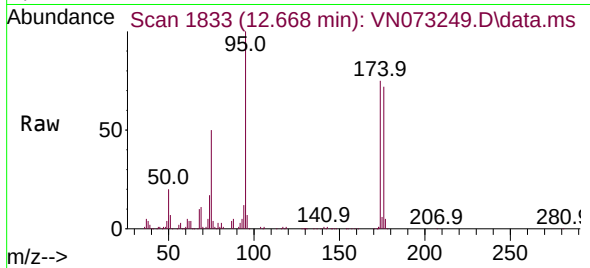




#81
trans-1,4-Dichloro-2-butene
Concen: 54.922 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.105 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

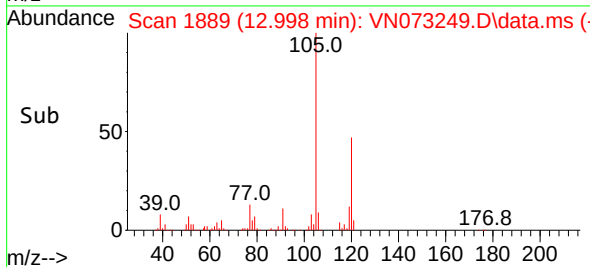
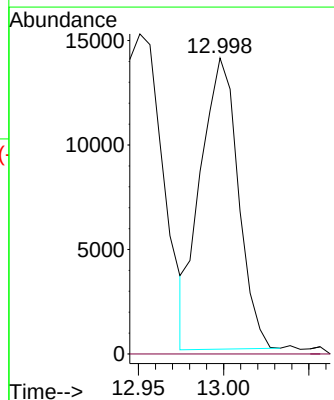
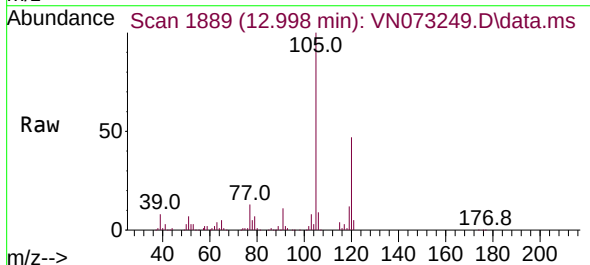
Instrument :
MSVOA_N
ClientSampleId :
DUP061722

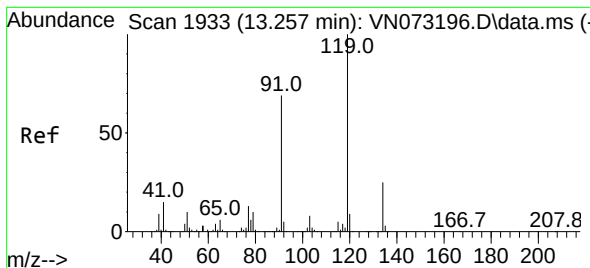
Tgt Ion: 75 Resp: 134254
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#82
4-Chlorotoluene
Concen: 1.424 ug/l
RT: 12.998 min Scan# 1889
Delta R.T. -0.041 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion: 91 Resp: 21466
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#





#83

tert-Butylbenzene

Concen: 5.960 ug/l

RT: 13.304 min Scan# 1941

Delta R.T. 0.047 min

Lab File: VN073249.D

Acq: 29 Jun 2022 17:43

Instrument :

MSVOA_N

ClientSampleId :

DUP061722

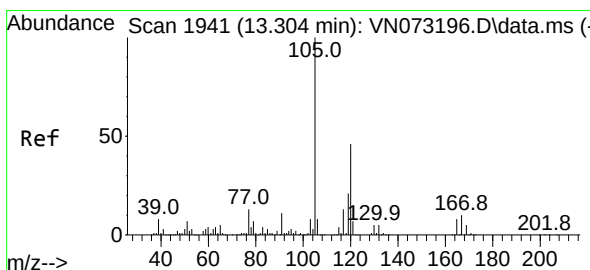
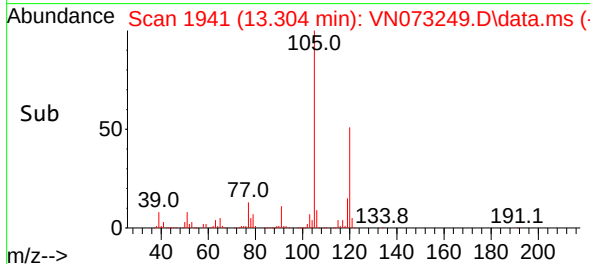
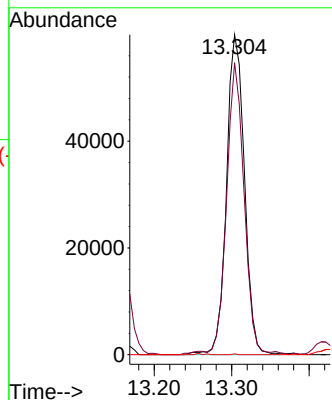
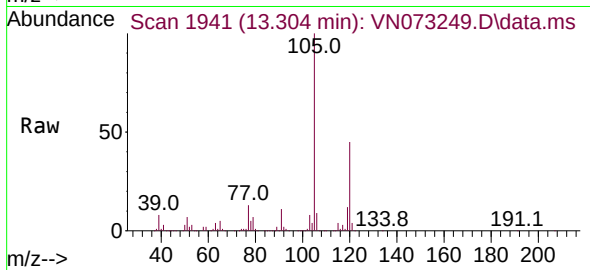
Tgt Ion:119 Resp: 96422

Ion Ratio Lower Upper

119 100

91 90.1 31.6 94.8

134 0.0 13.7 41.1#



#84

1,2,4-Trimethylbenzene

Concen: 44.154 ug/l

RT: 13.304 min Scan# 1941

Delta R.T. -0.000 min

Lab File: VN073249.D

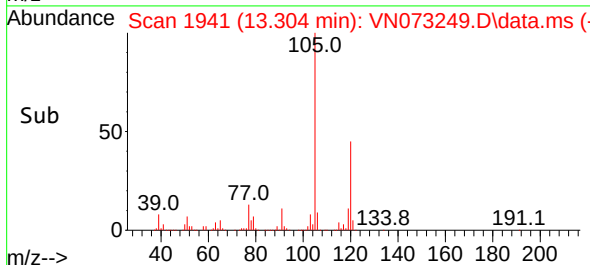
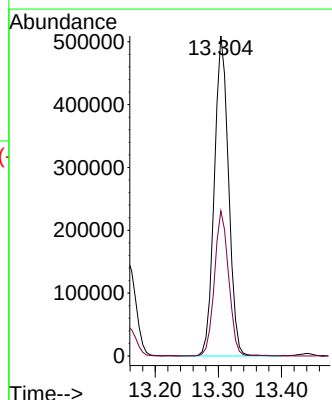
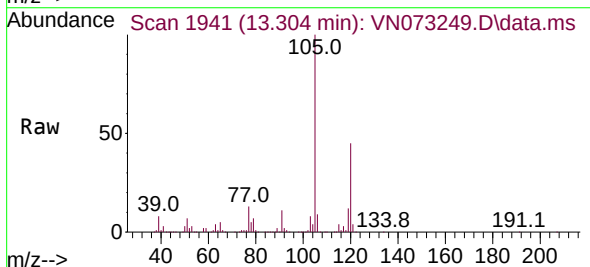
Acq: 29 Jun 2022 17:43

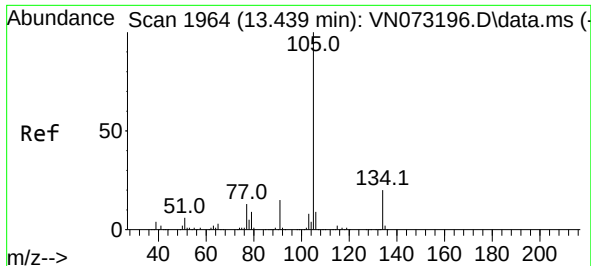
Tgt Ion:105 Resp: 795505

Ion Ratio Lower Upper

105 100

120 45.3 23.3 69.8

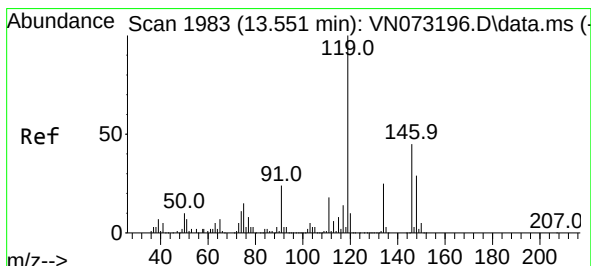
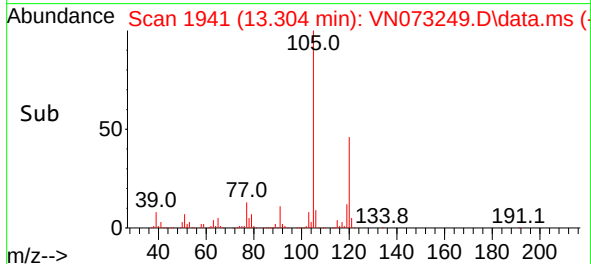
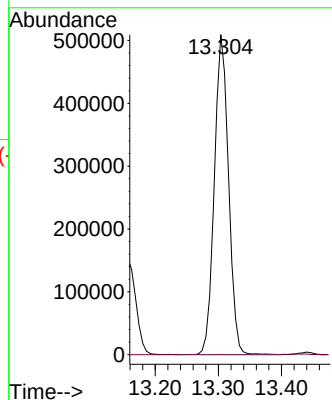
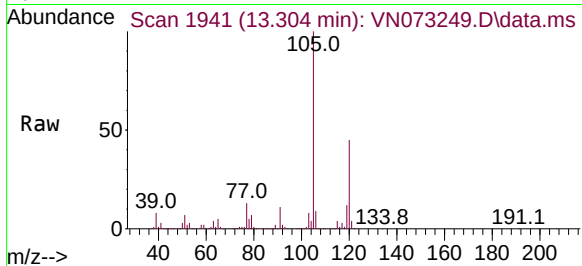




#85
 sec-Butylbenzene
 Concen: 36.619 ug/l
 RT: 13.304 min Scan# 1964
 Delta R.T. -0.135 min
 Lab File: VN073249.D
 Acq: 29 Jun 2022 17:43

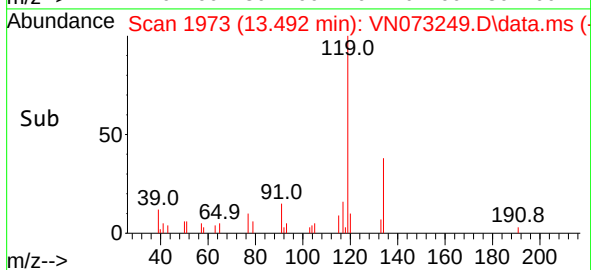
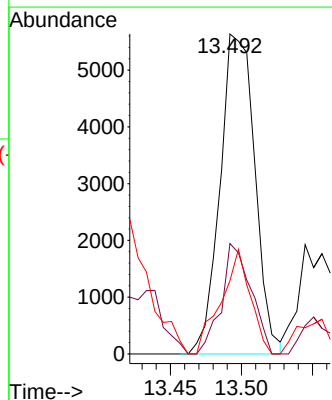
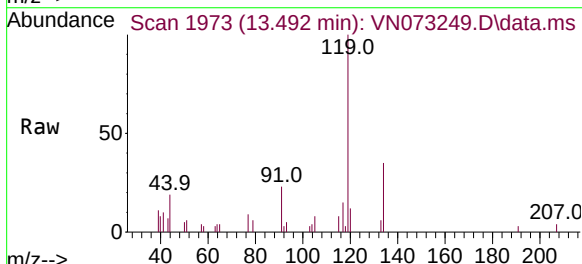
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP061722

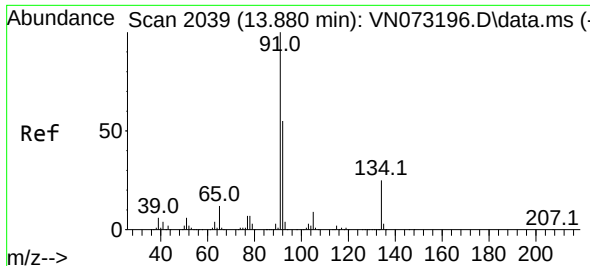
Tgt Ion:105 Resp: 795505
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.1#



#86
 p-Isopropyltoluene
 Concen: 0.546 ug/l
 RT: 13.492 min Scan# 1973
 Delta R.T. -0.059 min
 Lab File: VN073249.D
 Acq: 29 Jun 2022 17:43

Tgt Ion:119 Resp: 9588
 Ion Ratio Lower Upper
 119 100
 134 29.4 13.3 39.8
 91 27.6 11.3 33.9

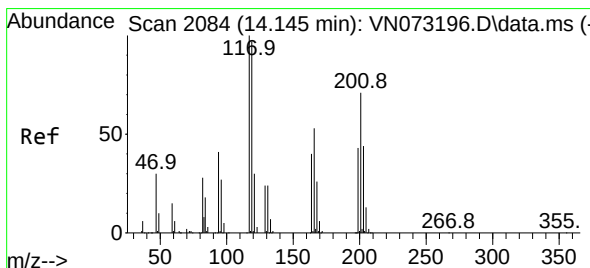
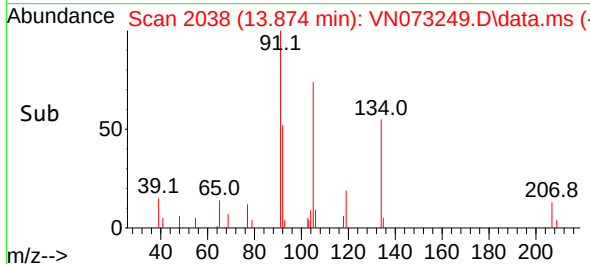
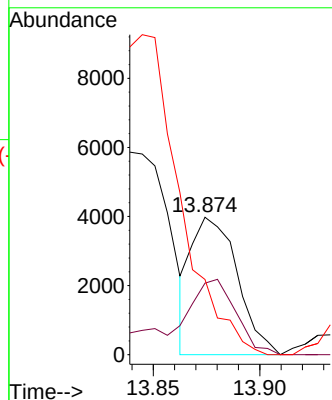
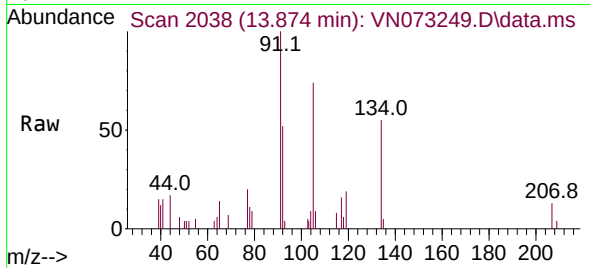




#89
n-Butylbenzene
Concen: 0.409 ug/l
RT: 13.874 min Scan# 2038
Delta R.T. -0.006 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

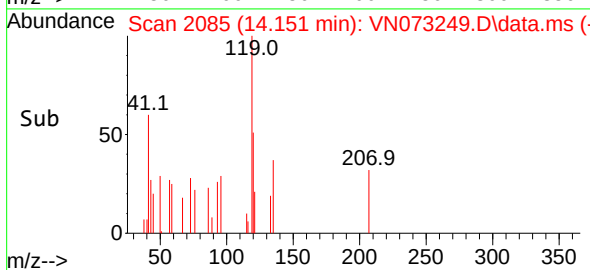
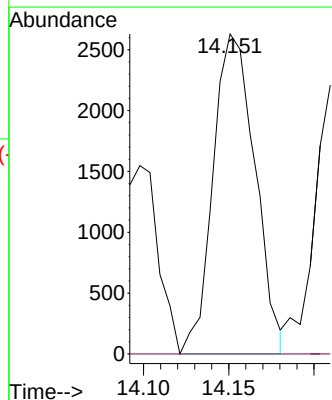
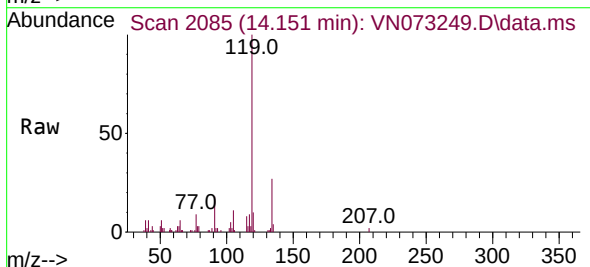
Instrument :
MSVOA_N
ClientSampleId :
DUP061722

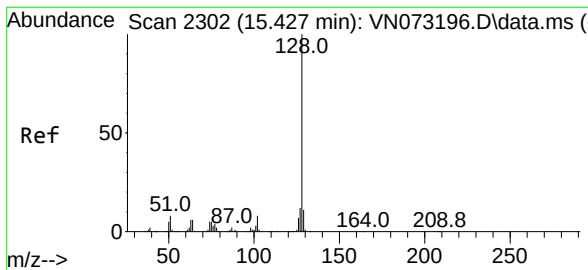
Tgt Ion: 91 Resp: 5978
Ion Ratio Lower Upper
91 100
92 55.4 26.9 80.7
134 0.0 13.6 40.8#



#90
Hexachloroethane
Concen: 1.374 ug/l
RT: 14.151 min Scan# 2085
Delta R.T. 0.006 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Tgt Ion: 117 Resp: 4495
Ion Ratio Lower Upper
117 100
201 0.0 40.6 122.0#





#95
Naphthalene
Concen: 10.332 ug/l
RT: 15.433 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN073249.D
Acq: 29 Jun 2022 17:43

Instrument :
MSVOA_N
ClientSampleId :
DUP061722

Tgt Ion:	128	Resp:	204149
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	10.4	8.6	13.0

