

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090222\
 Data File : VN074303.D
 Acq On : 02 Sep 2022 22:37
 Operator : JC\MD
 Sample : N4354-09DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 03 04:42:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090222W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 03 04:35:33 2022
 Response via : Initial Calibration

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

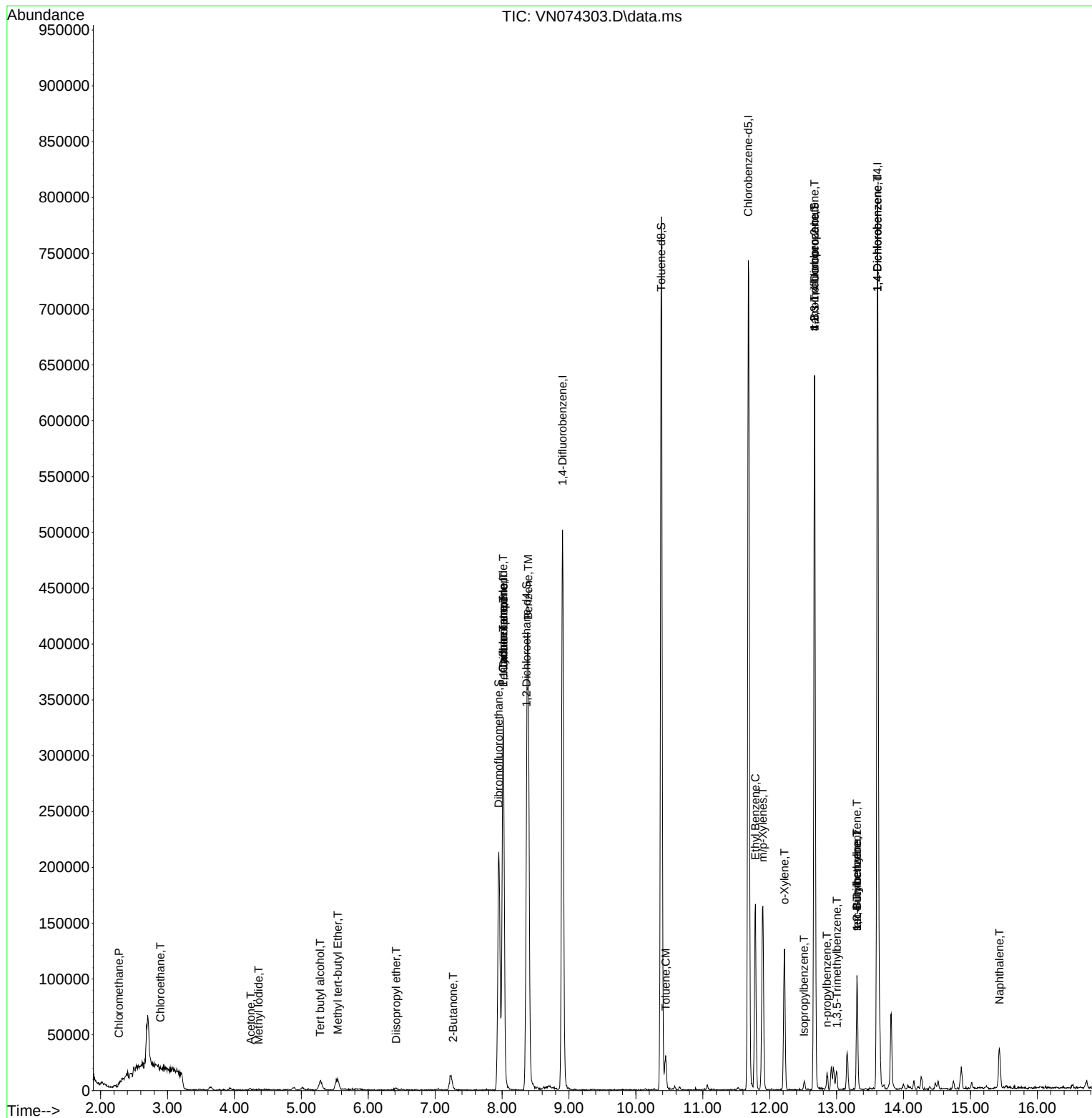
Internal Standards						
1) Pentafluorobenzene	8.022	168	245944	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	433764	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	412159	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	194355	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	168021	43.826	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.660%		
35) Dibromofluoromethane	7.951	113	148503	51.665	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.340%		
50) Toluene-d8	10.380	98	509654	44.966	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	89.940%		
62) 4-Bromofluorobenzene	12.668	95	185757	45.086	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	90.180%		
Target Compounds						Qvalue
3) Chloromethane	2.275	50	1161	0.346	ug/l	92
6) Chloroethane	2.893	64	2304	0.468	ug/l #	69
10) Methyl Iodide	4.363	142	132	5.105	ug/l #	81
11) Tert butyl alcohol	5.281	59	13789	19.825	ug/l	95
16) Acetone	4.245	43	2098	1.309	ug/l #	85
19) Methyl tert-butyl Ether	5.545	73	15206	1.585	ug/l #	82
20) Methylene Chloride	5.022	84	1316	Below Cal	#	47
22) Diisopropyl ether	6.416	45	2013	0.220	ug/l #	69
25) 2-Butanone	7.269	43	930	0.344	ug/l #	45
31) Cyclohexane	8.016	56	7890	1.541	ug/l #	67
36) 1,1-Dichloropropene	8.022	75	21811	5.347	ug/l #	44
38) Carbon Tetrachloride	8.016	117	25366	6.155	ug/l #	19
40) Benzene	8.392	78	315753	24.535	ug/l	96
52) Toluene	10.445	92	10693	1.345	ug/l	91
67) Ethyl Benzene	11.786	91	117088	7.050	ug/l	96
68) m/p-Xylenes	11.898	106	51283	8.271	ug/l	97
69) o-Xylene	12.221	106	32962	5.327	ug/l	100
73) Isopropylbenzene	12.515	105	5388	0.317	ug/l	89
76) 1,2,3-Trichloropropane	12.668	75	111997	20.346	ug/l #	1
78) n-propylbenzene	12.857	91	12317	0.633	ug/l	96
80) 1,3,5-Trimethylbenzene	13.004	105	7498	0.549	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.668	75	111997	66.049	ug/l #	10
83) tert-Butylbenzene	13.304	119	6667	0.538	ug/l #	58
84) 1,2,4-Trimethylbenzene	13.304	105	52064	3.767	ug/l	99
85) sec-Butylbenzene	13.304	105	52064	3.011	ug/l #	56
88) 1,4-Dichlorobenzene	13.610	146	466	0.233	ug/l #	1
95) Naphthalene	15.433	128	33075	3.079	ug/l	99

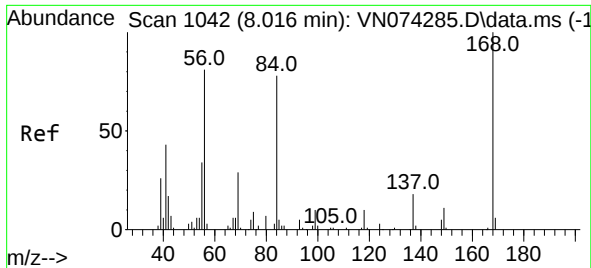
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

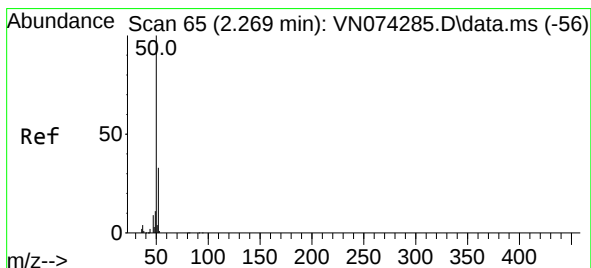
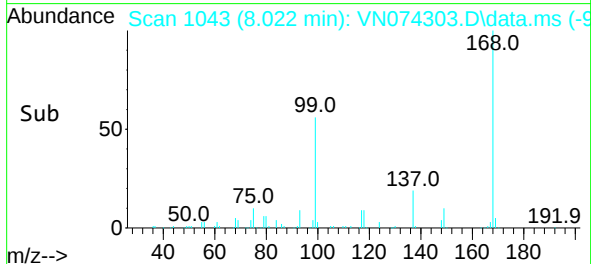
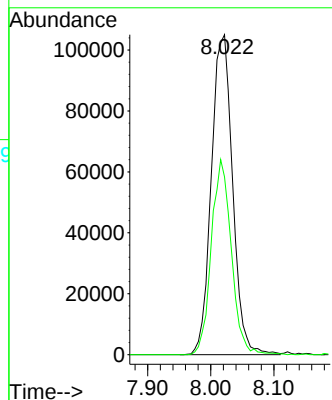
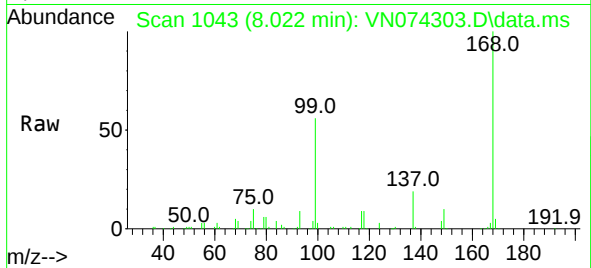




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

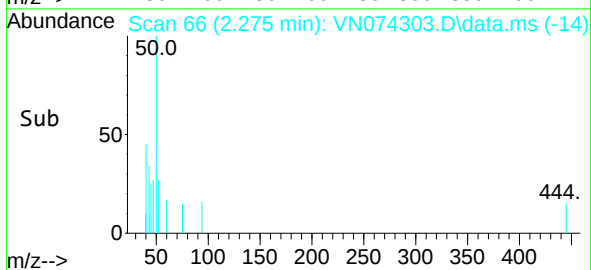
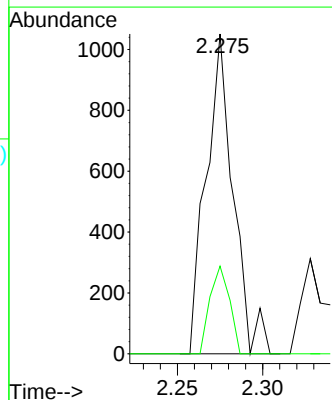
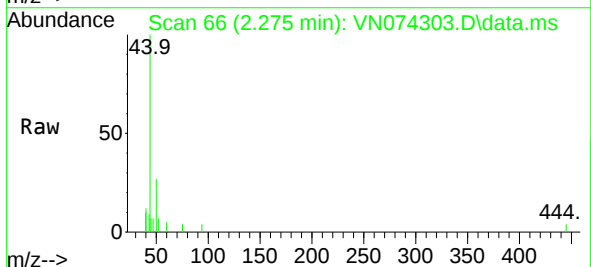
Instrument :
MSVOA_N
ClientSampleId :

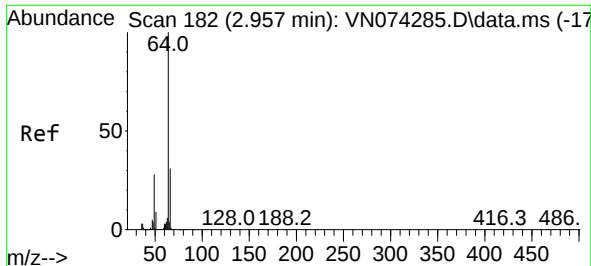
Tgt Ion:168 Resp: 245944
Ion Ratio Lower Upper
168 100
99 55.6 42.3 63.5



#3
Chloromethane
Concen: 0.346 ug/l
RT: 2.275 min Scan# 66
Delta R.T. 0.006 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

Tgt Ion: 50 Resp: 1161
Ion Ratio Lower Upper
50 100
52 27.4 25.7 38.5

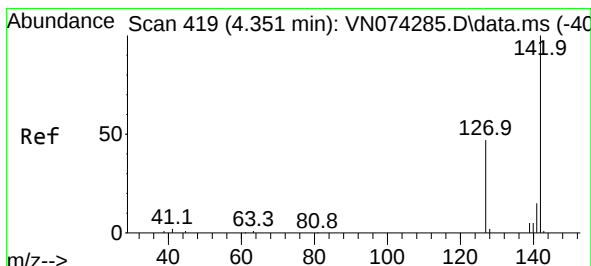
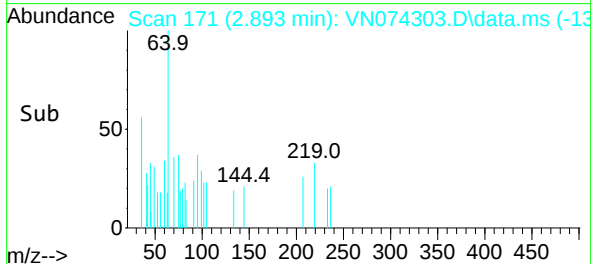
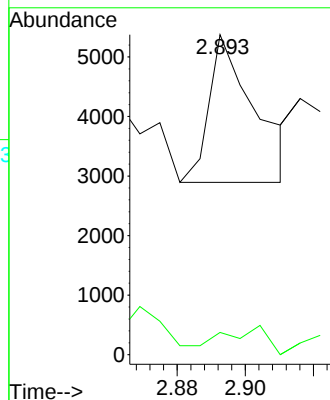
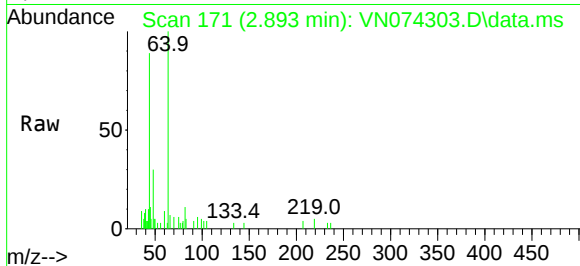




#6
Chloroethane
Concen: 0.468 ug/l
RT: 2.893 min Scan# 11
Delta R.T. -0.058 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

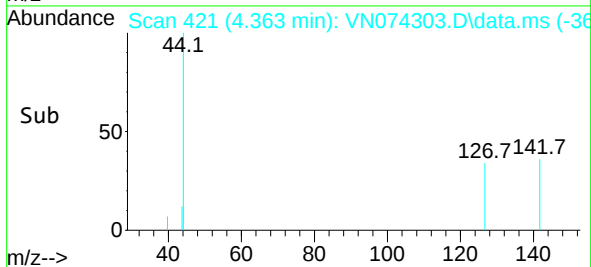
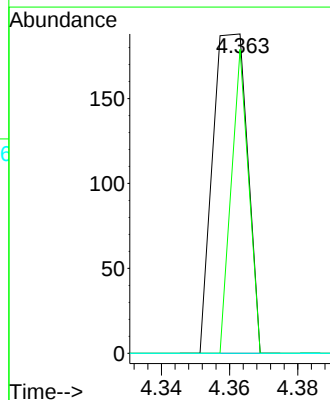
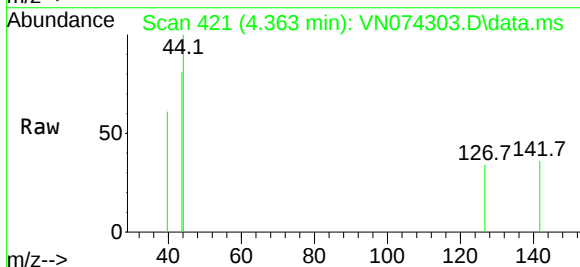
Instrument :
MSVOA_N
ClientSampleId :

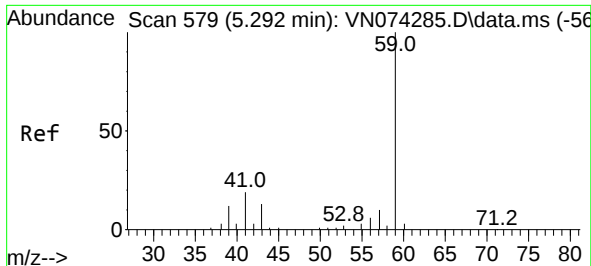
Tgt Ion: 64 Resp: 2304
Ion Ratio Lower Upper
64 100
66 15.1 26.2 39.4#



#10
Methyl Iodide
Concen: 5.105 ug/l
RT: 4.363 min Scan# 421
Delta R.T. 0.017 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

Tgt Ion: 142 Resp: 132
Ion Ratio Lower Upper
142 100
127 47.7 31.3 46.9#
141 0.0 11.2 16.8#





#11

Tert butyl alcohol

Concen: 19.825 ug/l

RT: 5.281 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN074303.D

Acq: 02 Sep 2022 22:37

Instrument :

MSVOA_N

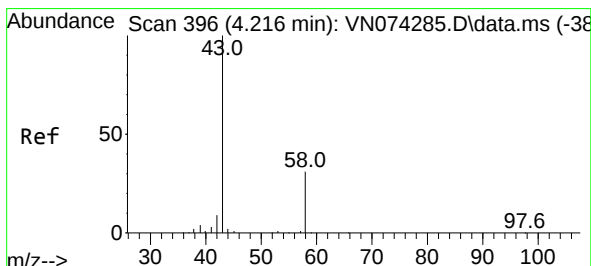
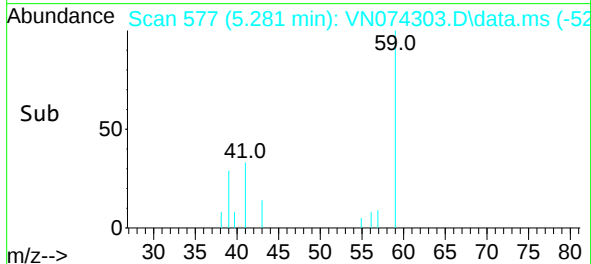
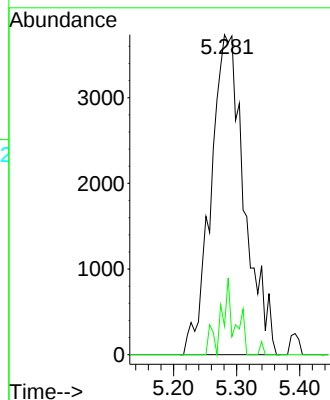
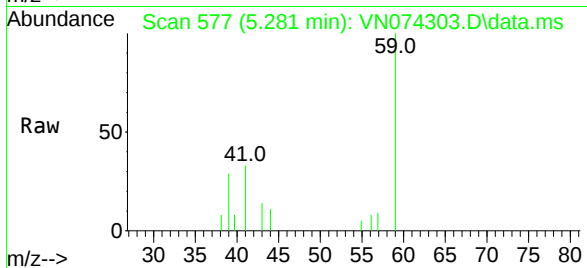
ClientSampleId :

Tgt Ion: 59 Resp: 13789

Ion Ratio Lower Upper

59 100

57 8.4 8.3 12.5



#16

Acetone

Concen: 1.309 ug/l

RT: 4.245 min Scan# 401

Delta R.T. 0.023 min

Lab File: VN074303.D

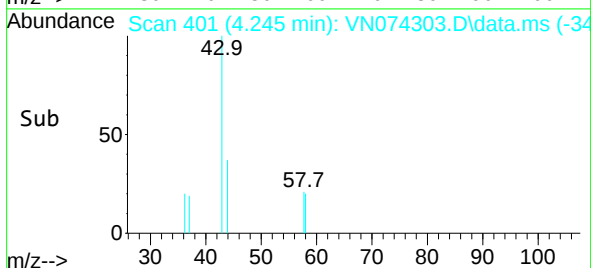
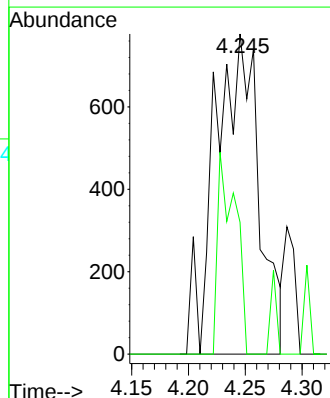
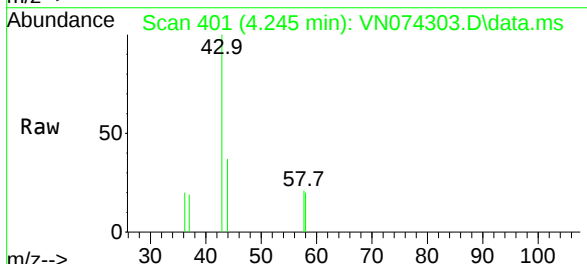
Acq: 02 Sep 2022 22:37

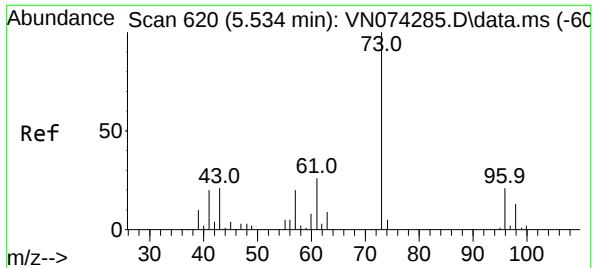
Tgt Ion: 43 Resp: 2098

Ion Ratio Lower Upper

43 100

58 41.2 26.0 39.0#





#19

Methyl tert-butyl Ether

Concen: 1.585 ug/l

RT: 5.545 min Scan# 61

Delta R.T. 0.011 min

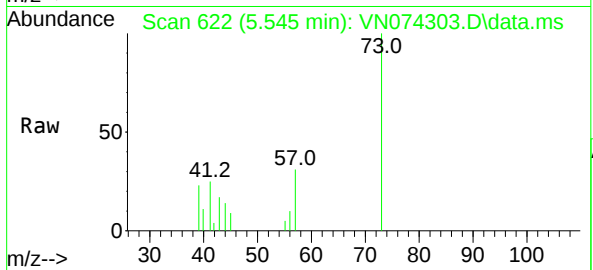
Lab File: VN074303.D

Acq: 02 Sep 2022 22:37

Instrument :

MSVOA_N

ClientSampleId :

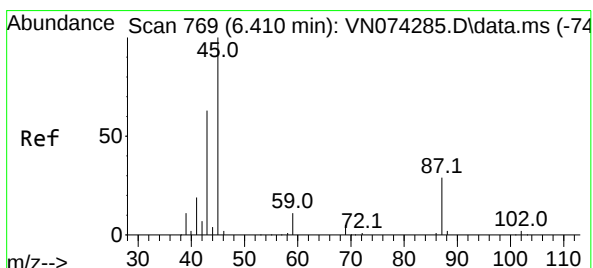
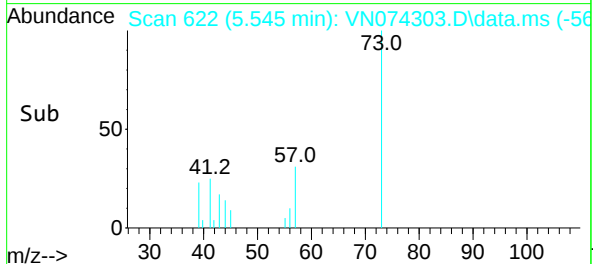
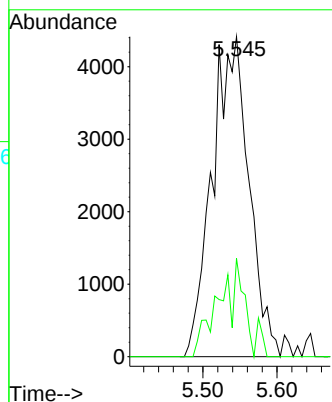


Tgt Ion: 73 Resp: 15206

Ion Ratio Lower Upper

73 100

57 30.7 17.6 26.4#



#22

Diisopropyl ether

Concen: 0.220 ug/l

RT: 6.416 min Scan# 770

Delta R.T. -0.000 min

Lab File: VN074303.D

Acq: 02 Sep 2022 22:37

Tgt Ion: 45 Resp: 2013

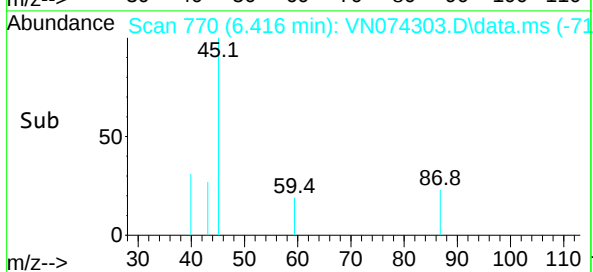
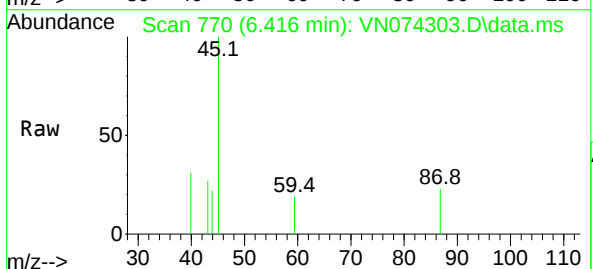
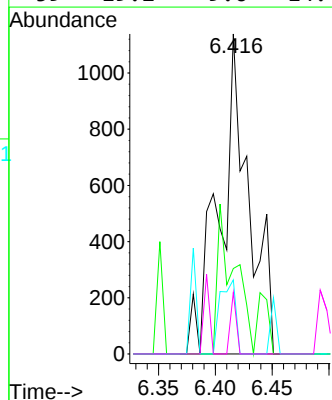
Ion Ratio Lower Upper

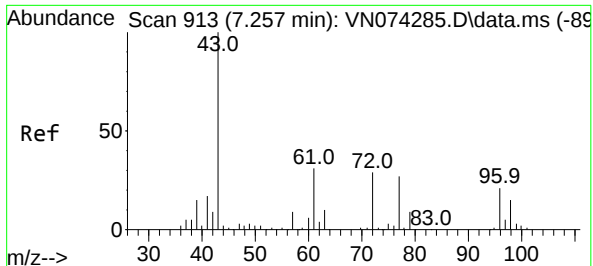
45 100

43 26.7 46.6 70.0#

87 23.2 24.3 36.5#

59 19.2 9.6 14.4#





#25

2-Butanone

Concen: 0.344 ug/l

RT: 7.269 min Scan# 913

Delta R.T. 0.012 min

Lab File: VN074303.D

Acq: 02 Sep 2022 22:37

Instrument :

MSVOA_N

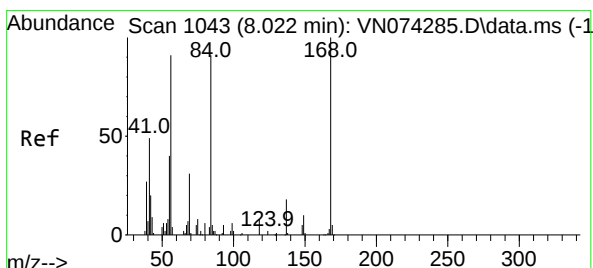
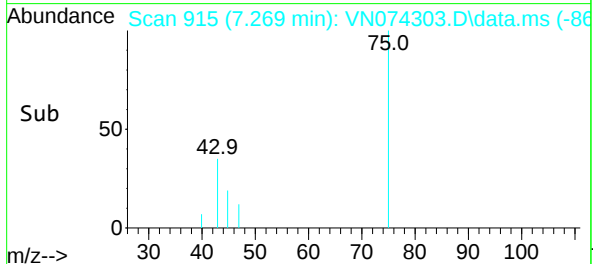
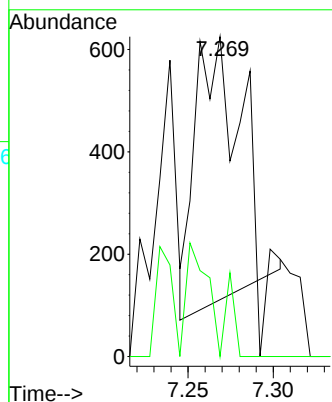
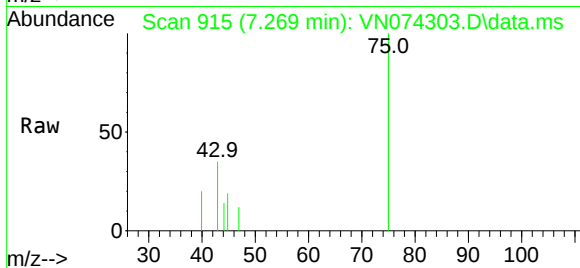
ClientSampleId :

Tgt Ion: 43 Resp: 930

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#



#31

Cyclohexane

Concen: 1.541 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.006 min

Lab File: VN074303.D

Acq: 02 Sep 2022 22:37

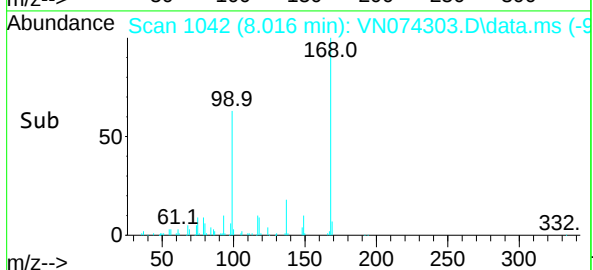
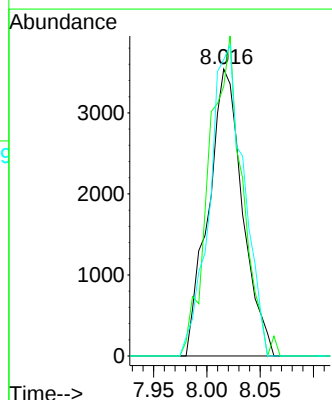
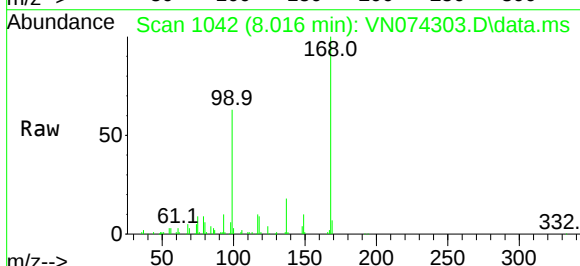
Tgt Ion: 56 Resp: 7890

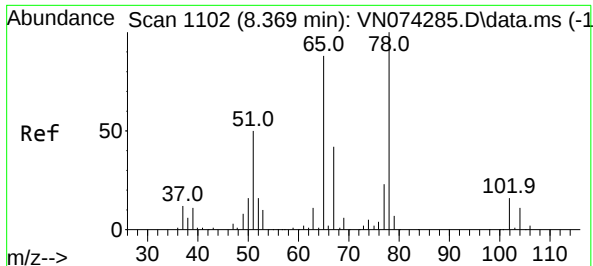
Ion Ratio Lower Upper

56 100

69 93.9 27.8 41.8#

84 103.3 76.9 115.3





#33

1,2-Dichloroethane-d4

Concen: 43.826 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN074303.D

Acq: 02 Sep 2022 22:37

Instrument :

MSVOA_N

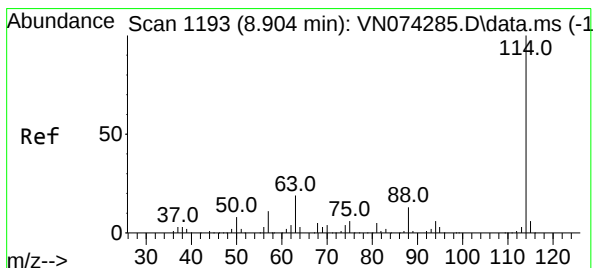
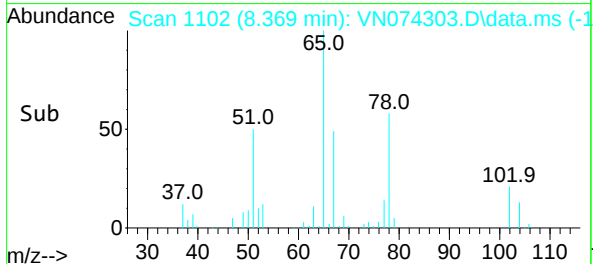
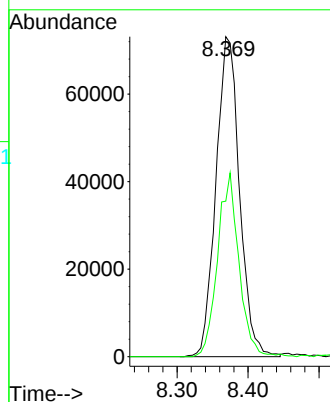
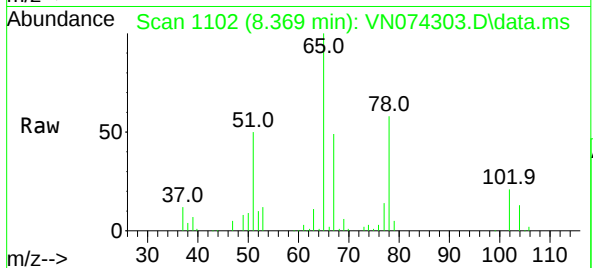
ClientSampleId :

Tgt Ion: 65 Resp: 168021

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN074303.D

Acq: 02 Sep 2022 22:37

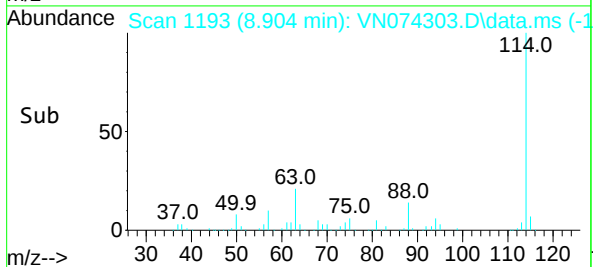
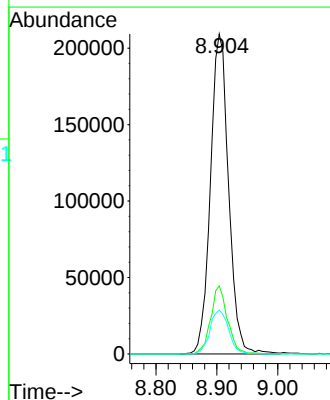
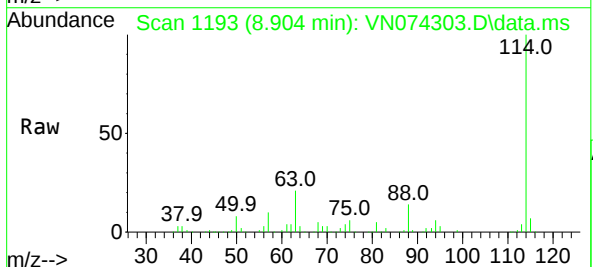
Tgt Ion: 114 Resp: 433764

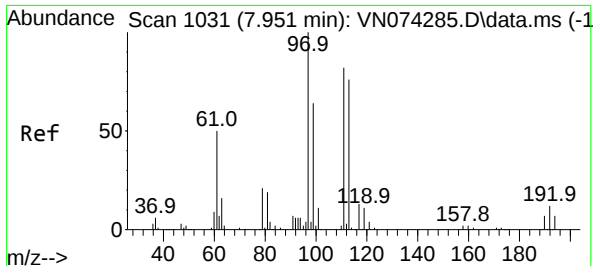
Ion Ratio Lower Upper

114 100

63 21.3 0.0 40.0

88 13.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.665 ug/l

RT: 7.951 min Scan# 1043

Delta R.T. 0.000 min

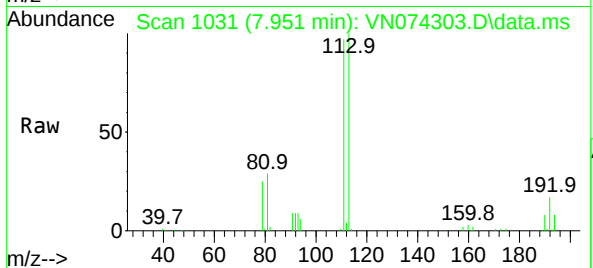
Lab File: VN074303.D

Acq: 02 Sep 2022 22:37

Instrument :

MSVOA_N

ClientSampleId :



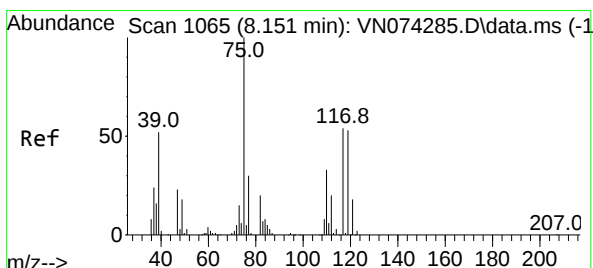
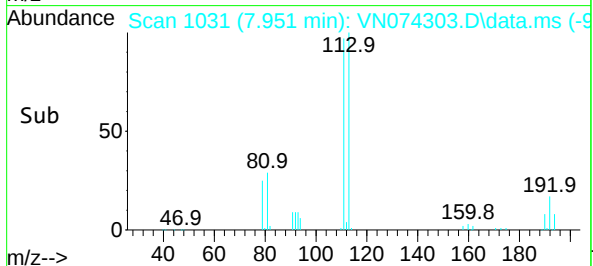
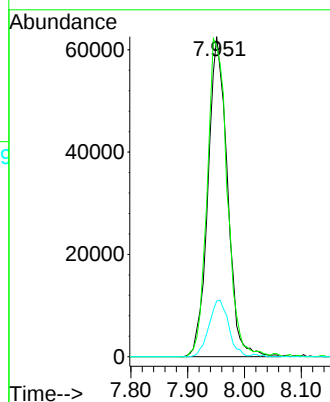
Tgt Ion:113 Resp: 148503

Ion Ratio Lower Upper

113 100

111 102.9 81.4 122.0

192 17.8 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.347 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.135 min

Lab File: VN074303.D

Acq: 02 Sep 2022 22:37

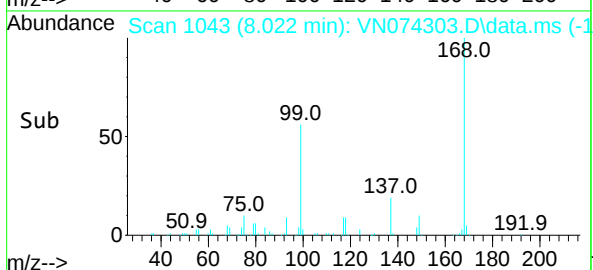
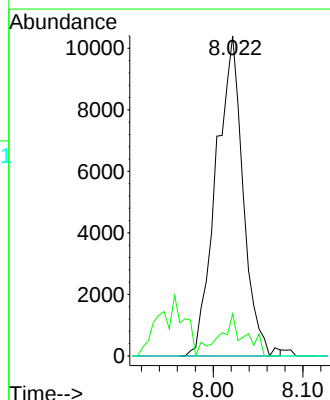
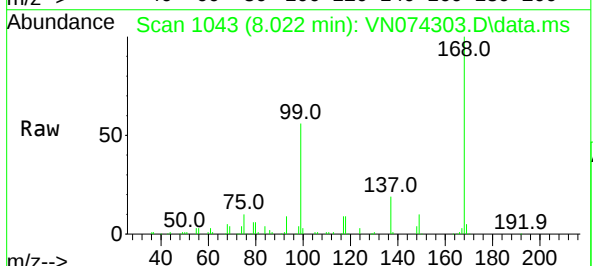
Tgt Ion: 75 Resp: 21811

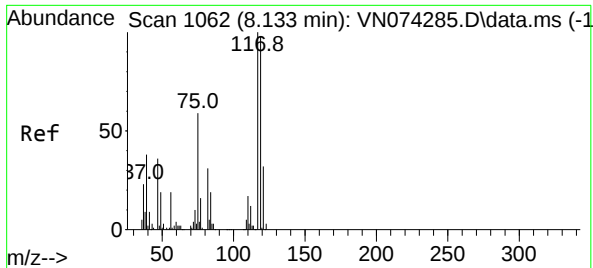
Ion Ratio Lower Upper

75 100

110 4.2 18.3 54.8#

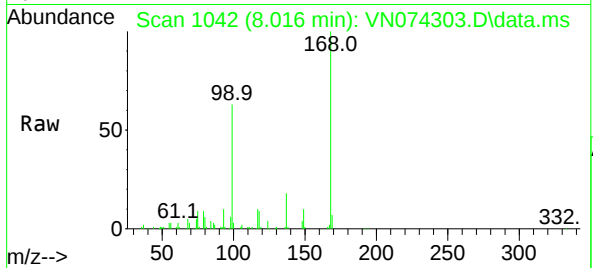
77 0.0 25.1 37.7#



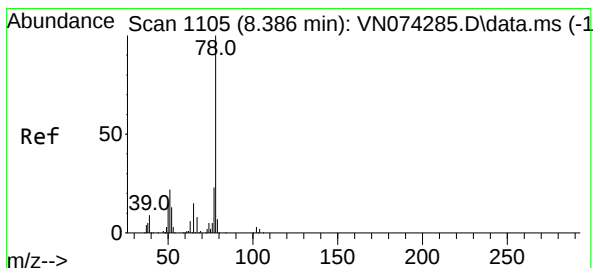
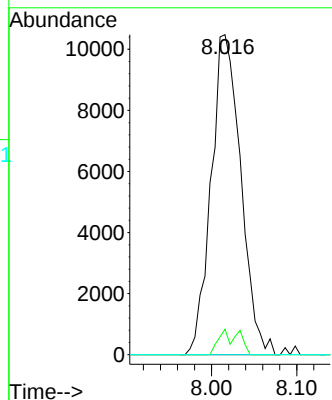
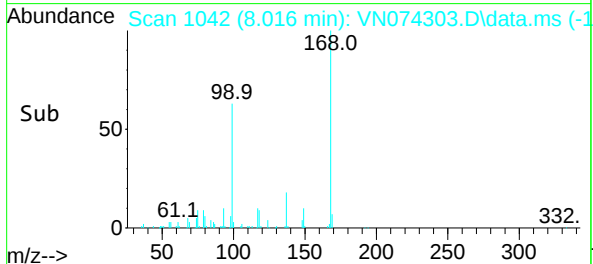


#38
Carbon Tetrachloride
Concen: 6.155 ug/l
RT: 8.016 min Scan# 1106
Delta R.T. -0.117 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

Instrument :
MSVOA_N
ClientSampleId :

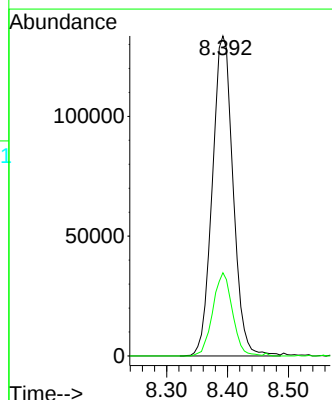
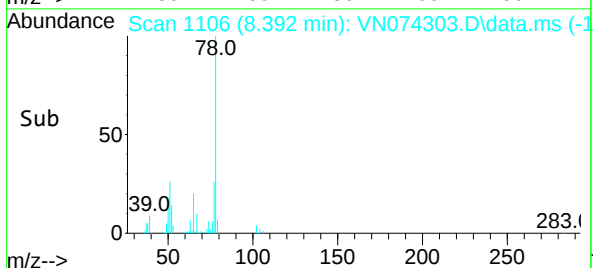
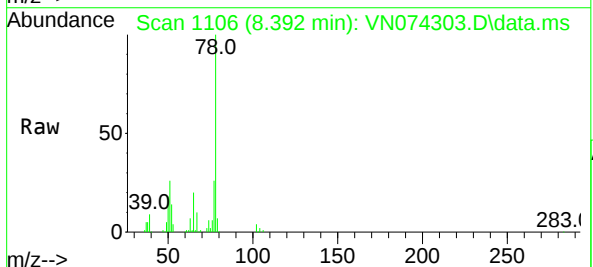


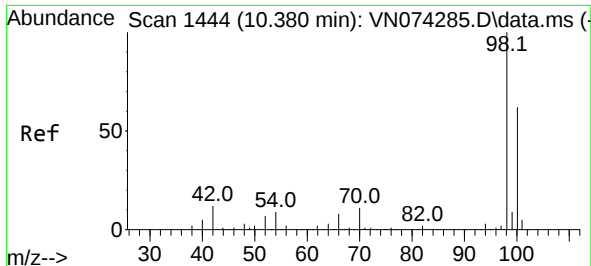
Tgt Ion:117 Resp: 25366
Ion Ratio Lower Upper
117 100
119 7.9 75.8 113.8#
121 0.0 24.6 37.0#



#40
Benzene
Concen: 24.535 ug/l
RT: 8.392 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

Tgt Ion: 78 Resp: 315753
Ion Ratio Lower Upper
78 100
77 26.0 19.4 29.0





#50

Toluene-d8

Concen: 44.966 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN074303.D

Acq: 02 Sep 2022 22:37

Instrument :

MSVOA_N

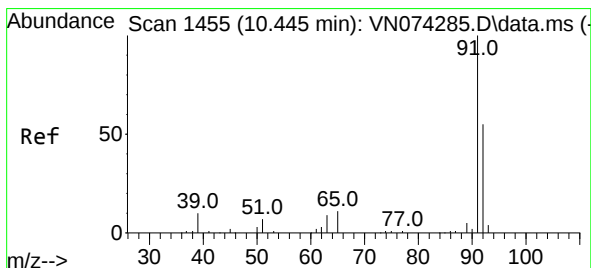
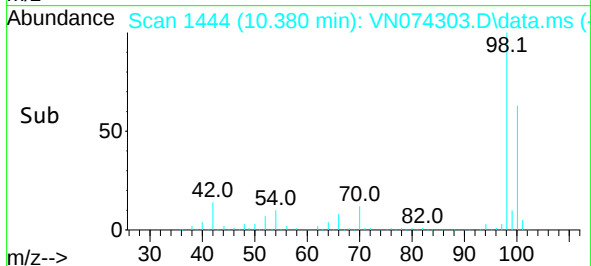
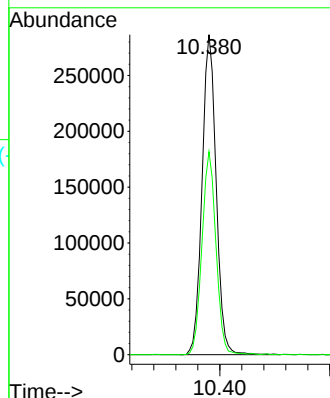
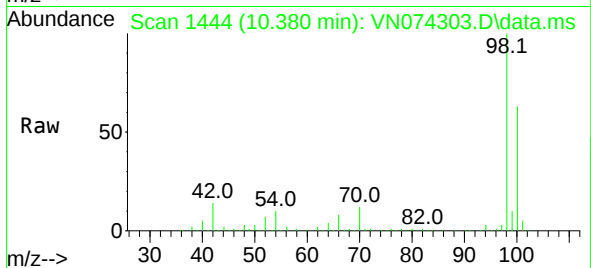
ClientSampleId :

Tgt Ion: 98 Resp: 509654

Ion Ratio Lower Upper

98 100

100 62.9 52.6 78.8



#52

Toluene

Concen: 1.345 ug/l

RT: 10.445 min Scan# 1455

Delta R.T. 0.000 min

Lab File: VN074303.D

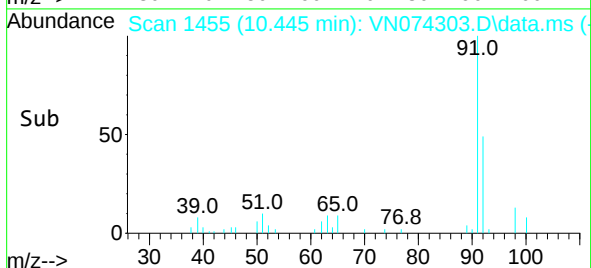
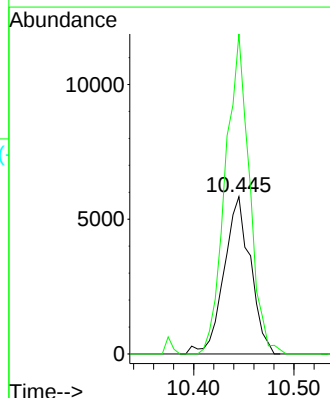
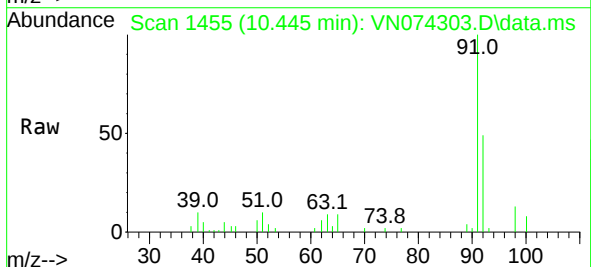
Acq: 02 Sep 2022 22:37

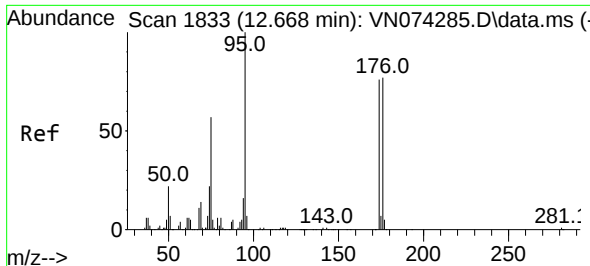
Tgt Ion: 92 Resp: 10693

Ion Ratio Lower Upper

92 100

91 185.3 138.6 207.8

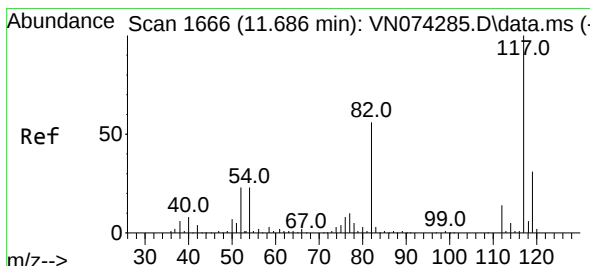
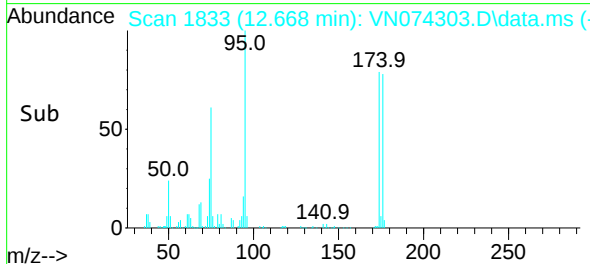
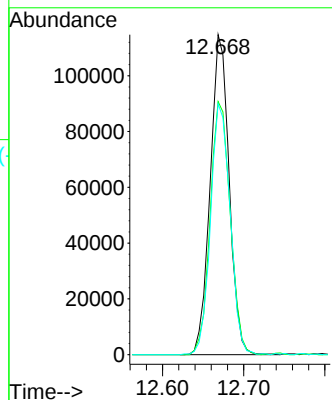
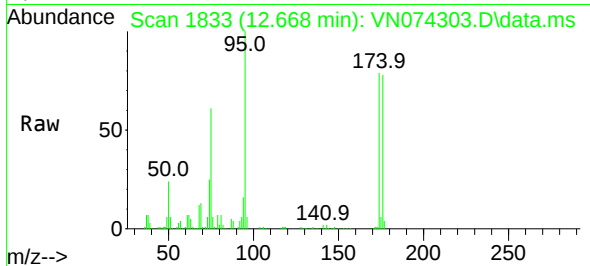




#62
4-Bromofluorobenzene
Concen: 45.086 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.001 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

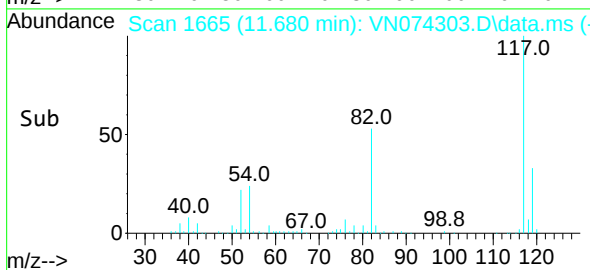
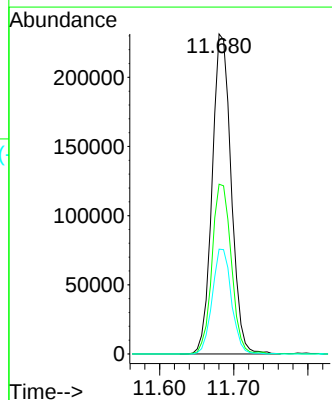
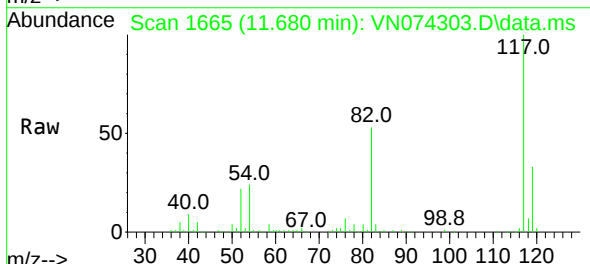
Instrument :
MSVOA_N
ClientSampleId :

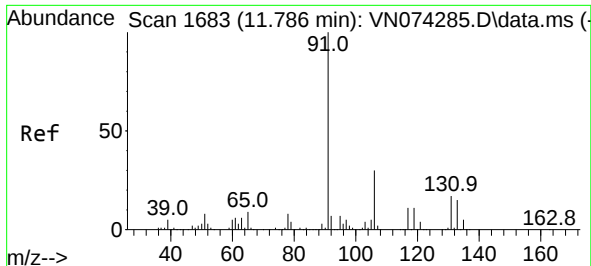
Tgt Ion: 95 Resp: 185757
Ion Ratio Lower Upper
95 100
174 83.7 0.0 167.6
176 81.1 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1665
Delta R.T. -0.006 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

Tgt Ion: 117 Resp: 412159
Ion Ratio Lower Upper
117 100
82 53.1 44.2 66.2
119 32.7 25.4 38.0

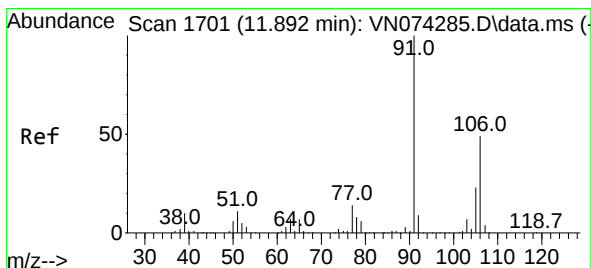
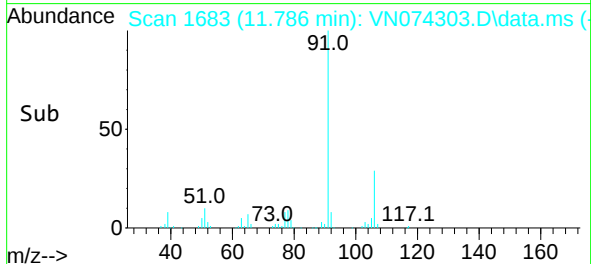
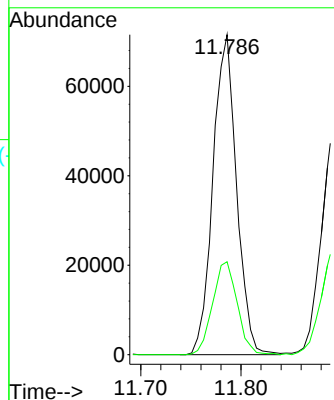
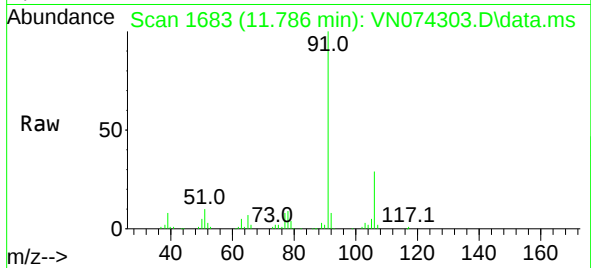




#67
Ethyl Benzene
Concen: 7.050 ug/l
RT: 11.786 min Scan# 117088
Delta R.T. 0.000 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

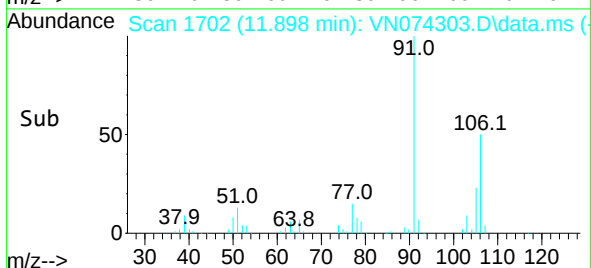
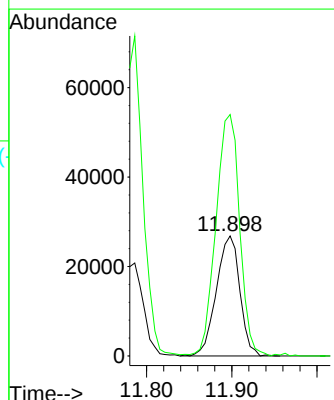
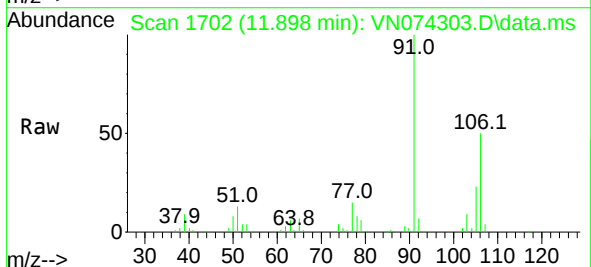
Instrument :
MSVOA_N
ClientSampleId :

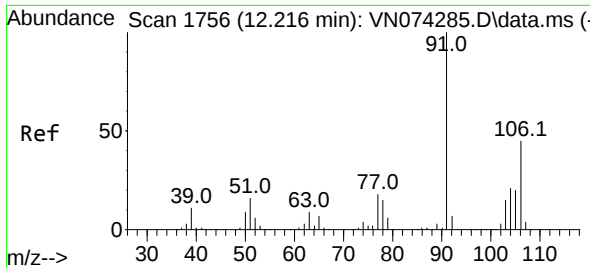
Tgt Ion: 91 Resp: 117088
Ion Ratio Lower Upper
91 100
106 29.1 24.9 37.3



#68
m/p-Xylenes
Concen: 8.271 ug/l
RT: 11.898 min Scan# 1702
Delta R.T. 0.006 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

Tgt Ion: 106 Resp: 51283
Ion Ratio Lower Upper
106 100
91 203.0 158.9 238.3

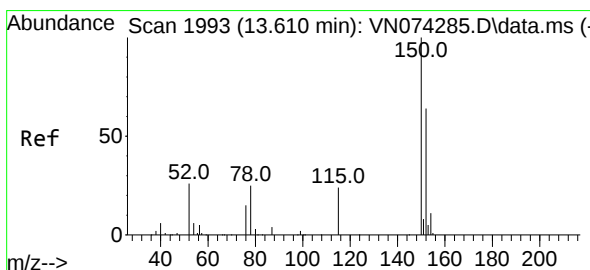
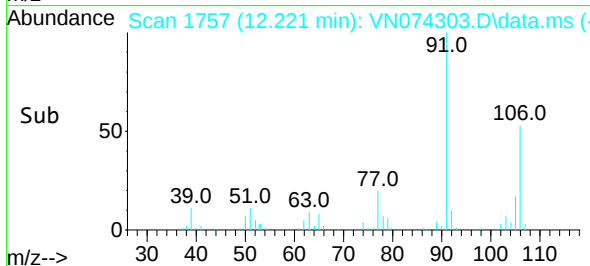
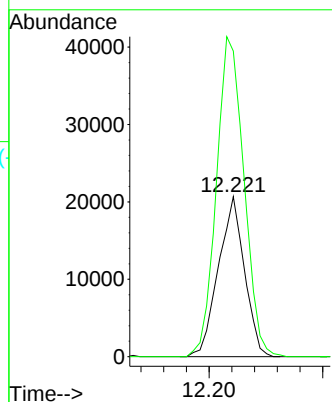
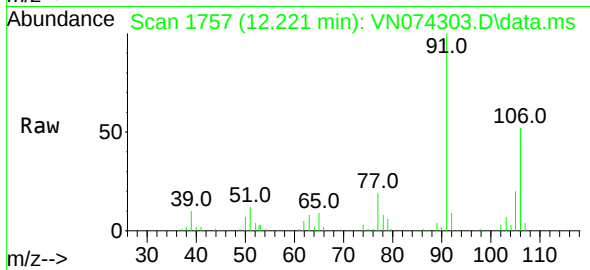




#69
o-Xylene
Concen: 5.327 ug/l
RT: 12.221 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

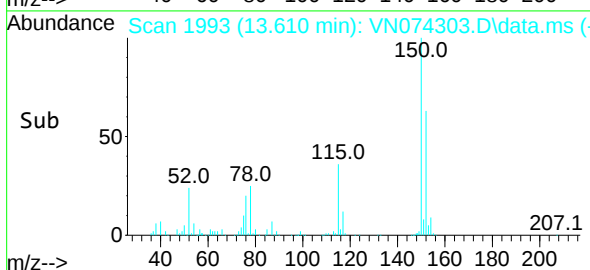
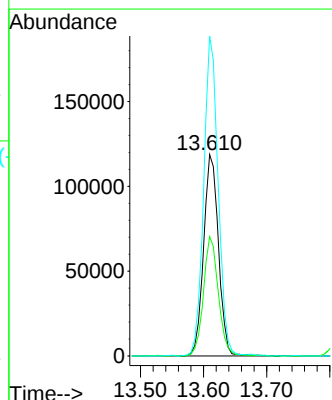
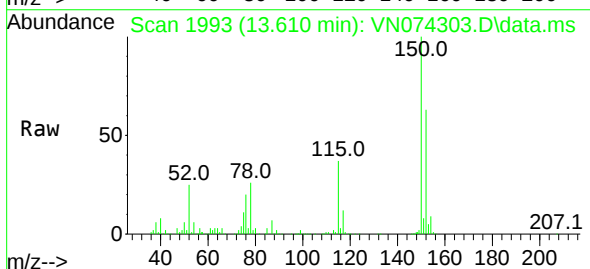
Instrument :
MSVOA_N
ClientSampleId :

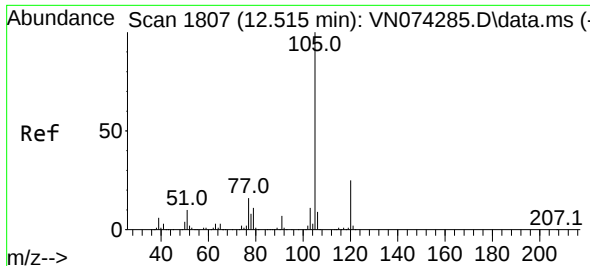
Tgt Ion:106 Resp: 32962
Ion Ratio Lower Upper
106 100
91 211.4 106.0 318.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. -0.000 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

Tgt Ion:152 Resp: 194355
Ion Ratio Lower Upper
152 100
115 59.4 28.9 86.7
150 153.8 0.0 356.2

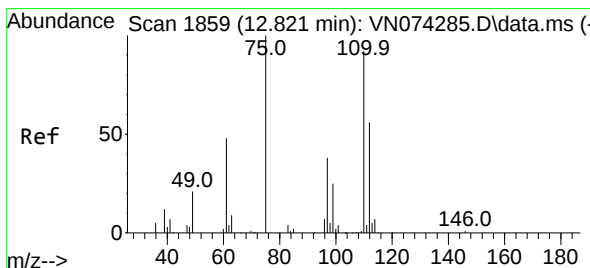
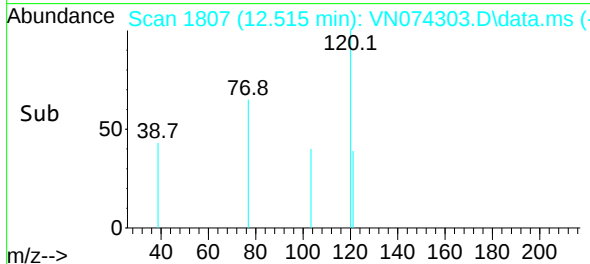
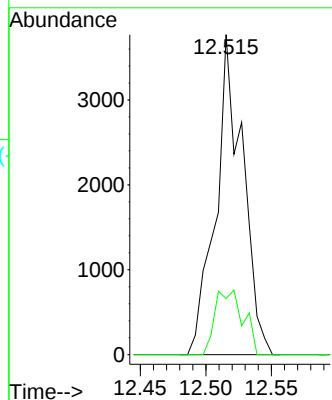
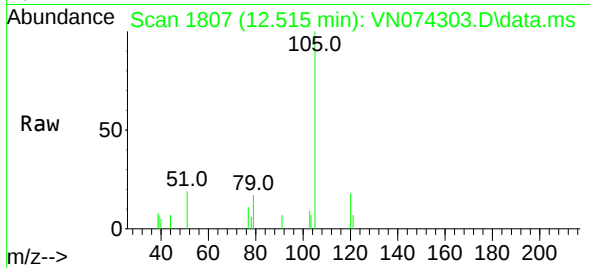




#73
Isopropylbenzene
Concen: 0.317 ug/l
RT: 12.515 min Scan# 1807
Delta R.T. -0.001 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

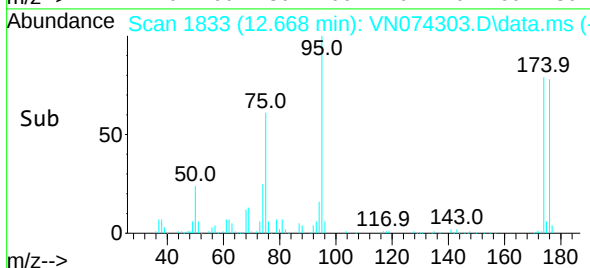
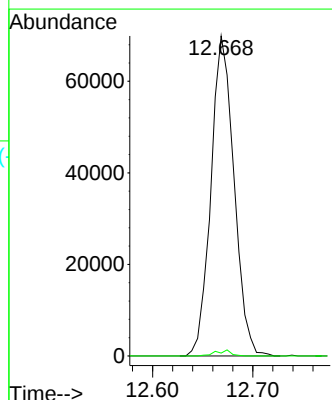
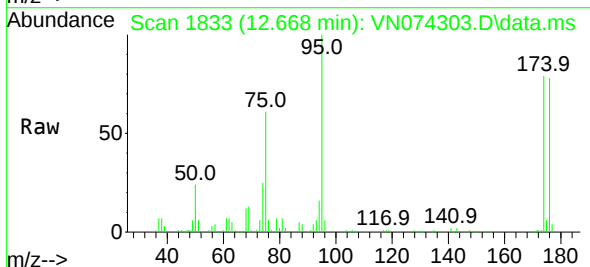
Instrument :
MSVOA_N
ClientSampleId :

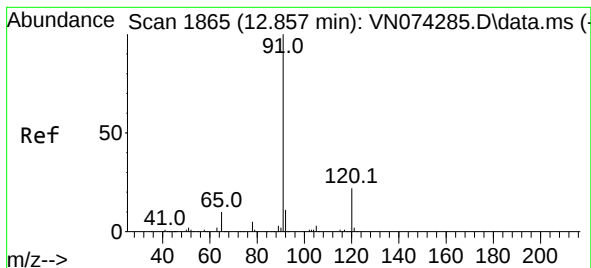
Tgt Ion:105 Resp: 5388
Ion Ratio Lower Upper
105 100
120 21.1 13.5 40.4



#76
1,2,3-Trichloropropane
Concen: 20.346 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.153 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

Tgt Ion: 75 Resp: 111997
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#





#78

n-propylbenzene

Concen: 0.633 ug/l

RT: 12.857 min Scan# 1865

Delta R.T. -0.006 min

Lab File: VN074303.D

Acq: 02 Sep 2022 22:37

Instrument :

MSVOA_N

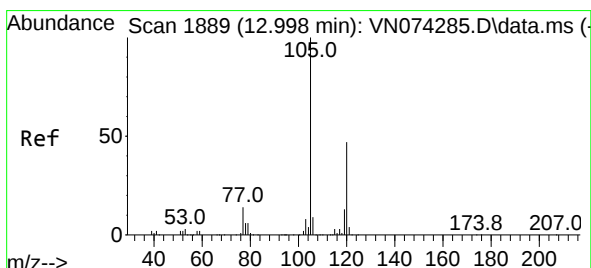
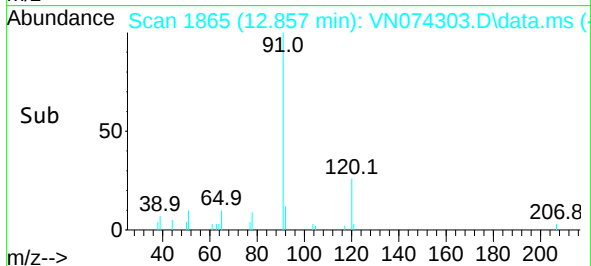
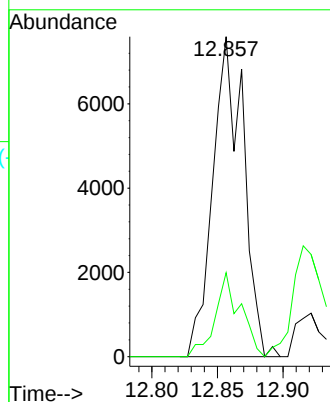
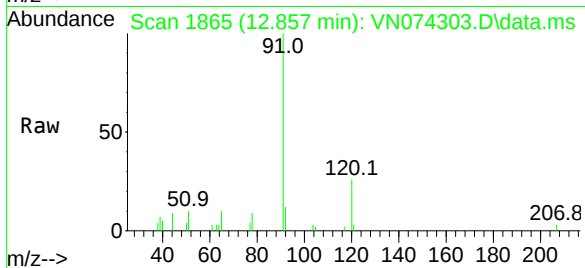
ClientSampleId :

Tgt Ion: 91 Resp: 12317

Ion Ratio Lower Upper

91 100

120 21.6 11.9 35.5



#80

1,3,5-Trimethylbenzene

Concen: 0.549 ug/l

RT: 13.004 min Scan# 1890

Delta R.T. 0.006 min

Lab File: VN074303.D

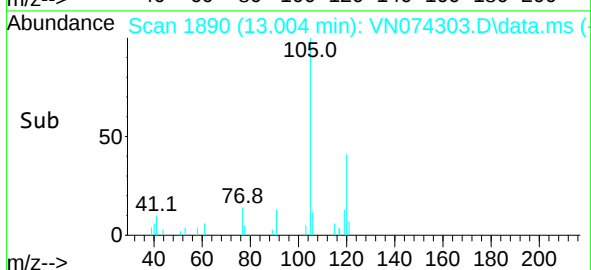
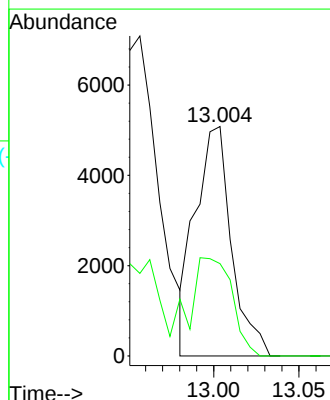
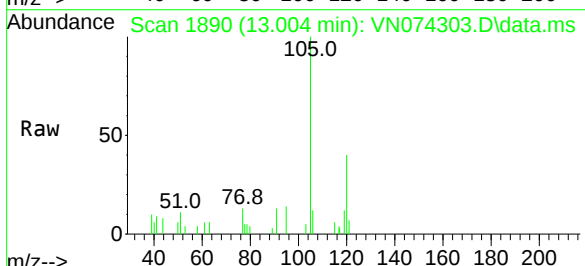
Acq: 02 Sep 2022 22:37

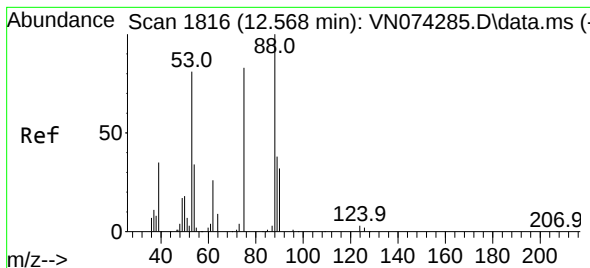
Tgt Ion: 105 Resp: 7498

Ion Ratio Lower Upper

105 100

120 50.1 24.9 74.7

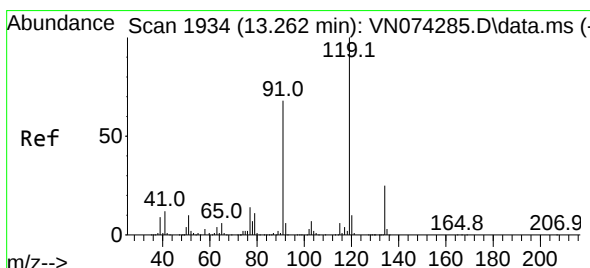
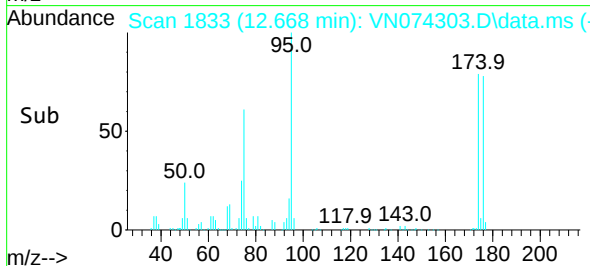
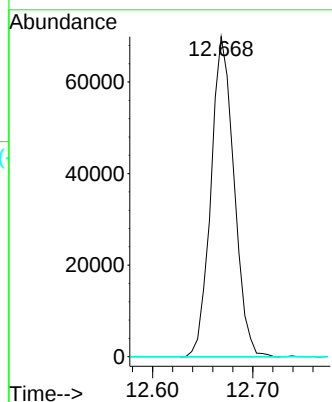
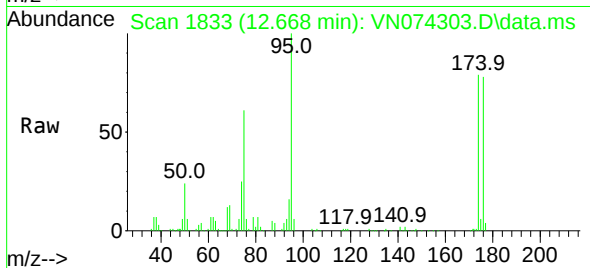




#81
trans-1,4-Dichloro-2-butene
Concen: 66.049 ug/l
RT: 12.668 min Scan# 1119
Delta R.T. 0.105 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

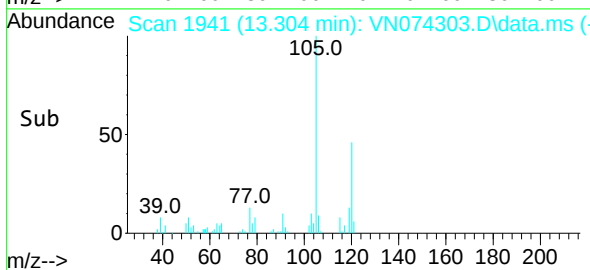
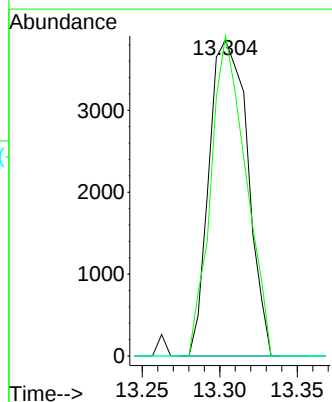
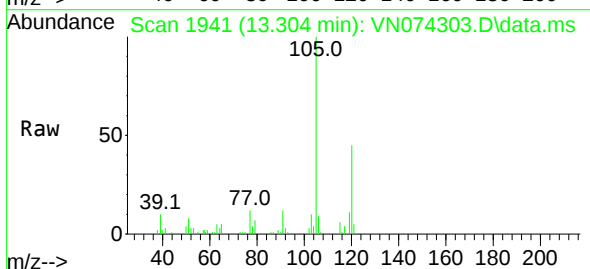
Instrument :
MSVOA_N
ClientSampleId :

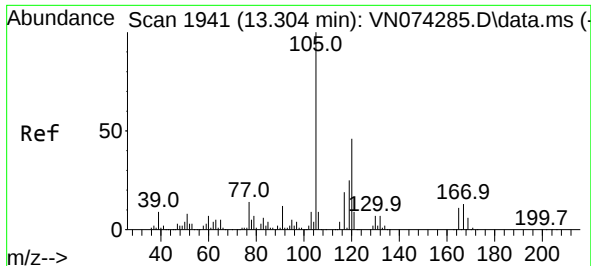
Tgt Ion: 75 Resp: 111997
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#83
tert-Butylbenzene
Concen: 0.538 ug/l
RT: 13.304 min Scan# 1941
Delta R.T. 0.041 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

Tgt Ion: 119 Resp: 6667
Ion Ratio Lower Upper
119 100
91 92.1 31.6 94.8
134 0.0 13.7 41.1#

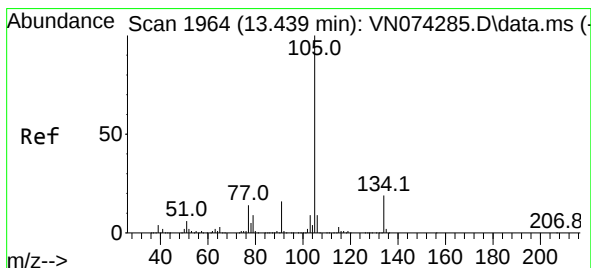
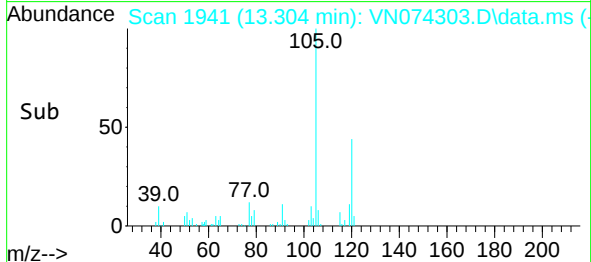
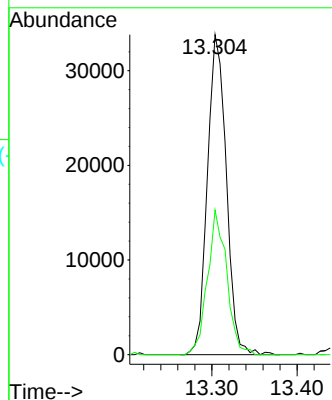
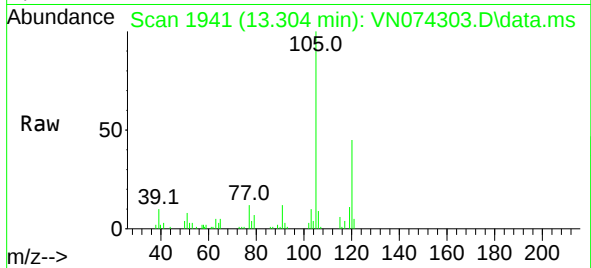




#84
1,2,4-Trimethylbenzene
Concen: 3.767 ug/l
RT: 13.304 min Scan# 1941
Delta R.T. -0.006 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

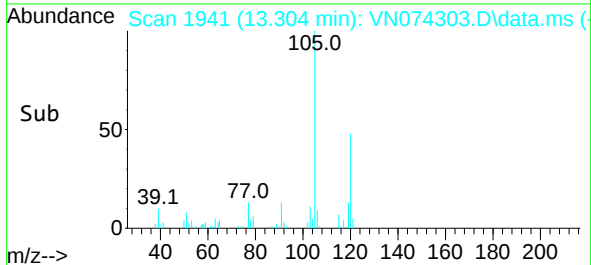
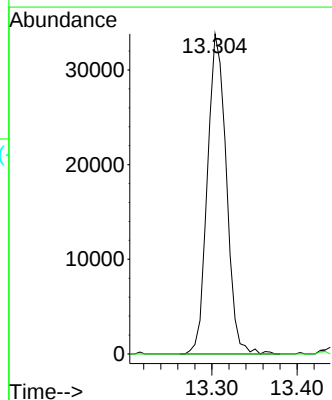
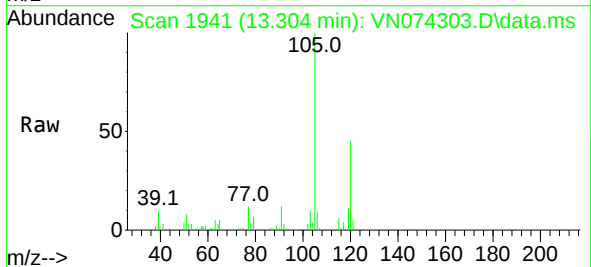
Instrument :
MSVOA_N
ClientSampleId :

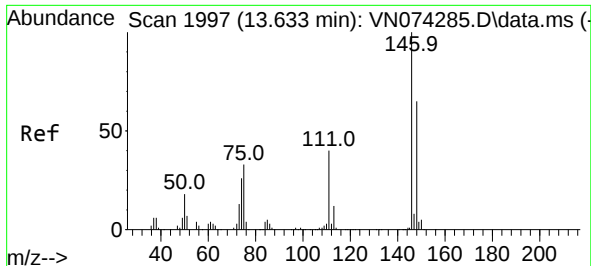
Tgt Ion:105 Resp: 52064
Ion Ratio Lower Upper
105 100
120 46.1 23.3 69.8



#85
sec-Butylbenzene
Concen: 3.011 ug/l
RT: 13.304 min Scan# 1941
Delta R.T. -0.135 min
Lab File: VN074303.D
Acq: 02 Sep 2022 22:37

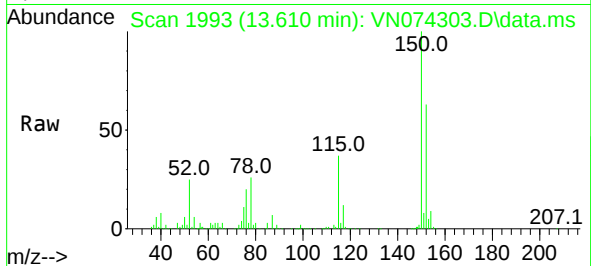
Tgt Ion:105 Resp: 52064
Ion Ratio Lower Upper
105 100
134 0.0 10.4 31.1#



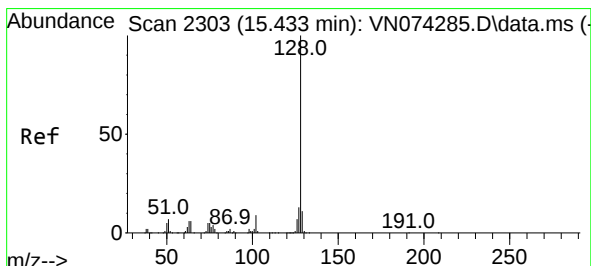
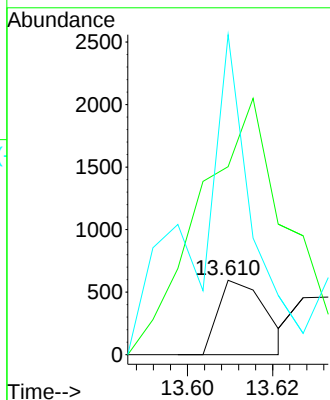
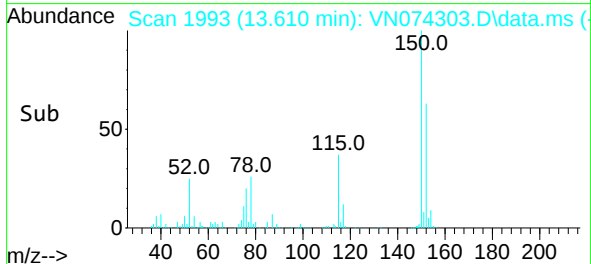


#88
 1,4-Dichlorobenzene
 Concen: 0.233 ug/l
 RT: 13.610 min Scan# 1993
 Delta R.T. -0.023 min
 Lab File: VN074303.D
 Acq: 02 Sep 2022 22:37

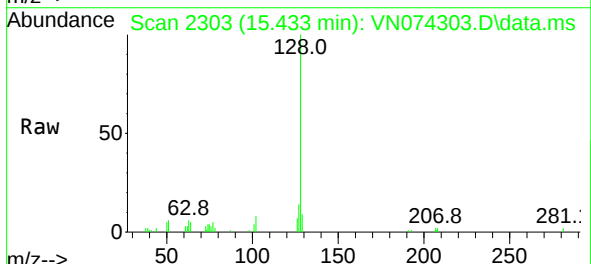
Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:146 Resp: 466
 Ion Ratio Lower Upper
 146 100
 111 642.9 19.1 57.1#
 148 495.5 31.4 94.3#



#95
 Naphthalene
 Concen: 3.079 ug/l
 RT: 15.433 min Scan# 2303
 Delta R.T. -0.000 min
 Lab File: VN074303.D
 Acq: 02 Sep 2022 22:37



Tgt Ion:128 Resp: 33075
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.3 15.5
 129 10.2 8.6 13.0

