

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021723\
 Data File : VN076734.D
 Acq On : 17 Feb 2023 15:04
 Operator : JC\MD
 Sample : 01578-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 230215027-02-VOA

Quant Time: Feb 18 02:08:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 16 01:08:46 2023
 Response via : Initial Calibration

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

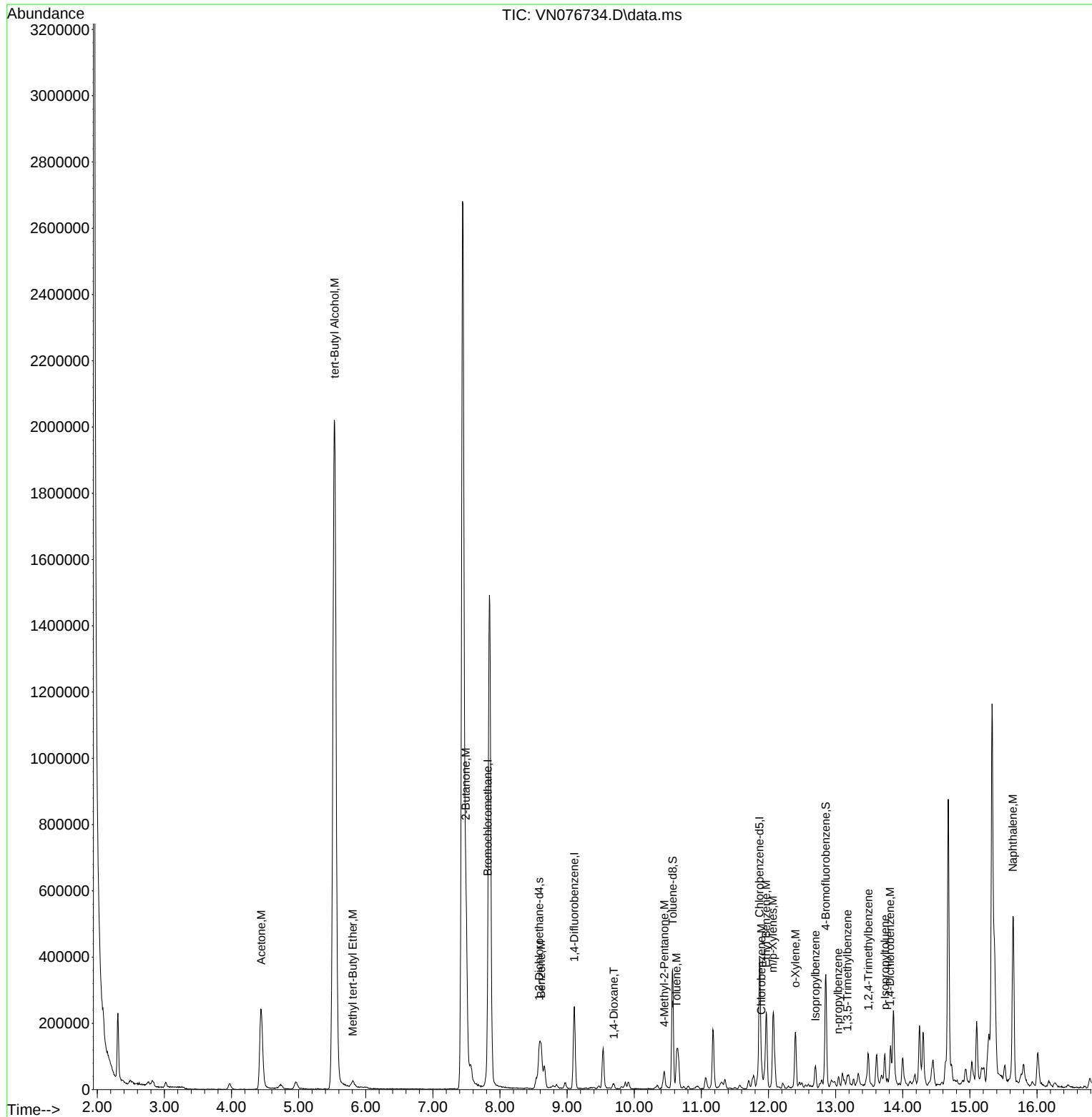
Internal Standards						
1) Bromochloromethane	7.819	128	28772	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	201788	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	220548	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	84601	32.149	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.167%			
60) 4-Bromofluorobenzene	12.854	95	109788	28.143	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.800%			
63) Toluene-d8	10.571	98	223378	28.916	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.400%			
Target Compounds						
					Qvalue	
15) Acetone	4.442	58	132747	229.506	ug/l	96
23) tert-Butyl Alcohol	5.537	59	3697644	7161.822	ug/l	100
24) Methyl tert-Butyl Ether	5.807	73	25548	2.600	ug/l #	71
30) 2-Butanone	7.489	43	974977	363.135	ug/l	96
34) Benzene	8.613	78	93034	6.331	ug/l #	87
45) 1,4-Dioxane	9.695	88	6196	86.942	ug/l #	82
58) 4-Methyl-2-Pentanone	10.448	43	38736	7.385	ug/l #	73
62) Toluene	10.630	91	74731	4.849	ug/l	97
64) Chlorobenzene	11.895	112	20509	2.233	ug/l	92
66) Ethyl Benzene	11.966	91	158758	9.689	ug/l	95
67) m/p-Xylenes	12.066	106	76791	11.984	ug/l	96
68) o-Xylene	12.401	106	42434	6.720	ug/l	96
70) Isopropylbenzene	12.701	105	35802	2.222	ug/l	99
74) n-propylbenzene	13.036	91	8546	0.445	ug/l	84
76) 1,3,5-Trimethylbenzene	13.177	105	11092	0.826	ug/l	96
80) 1,2,4-Trimethylbenzene	13.489	105	50511	3.786	ug/l	95
82) p-Isopropyltoluene	13.736	119	45979	3.320	ug/l	95
84) 1,4-Dichlorobenzene	13.812	146	26847	3.854	ug/l	95
91) Naphthalene	15.642	128	461864	39.208	ug/l	99

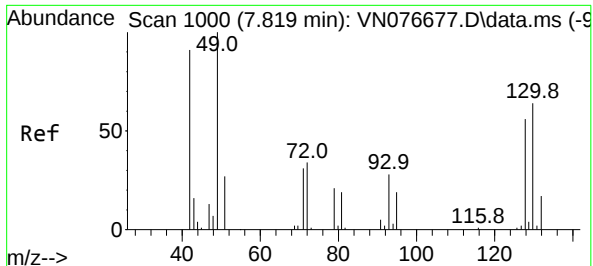
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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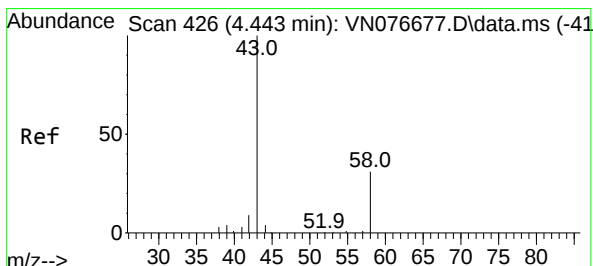
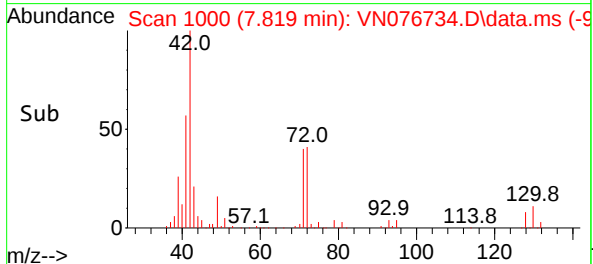
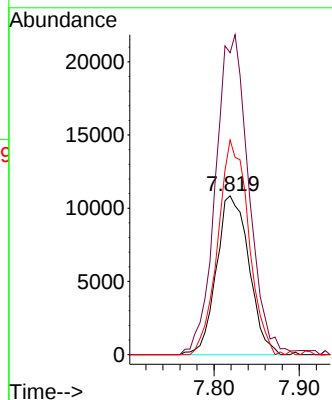
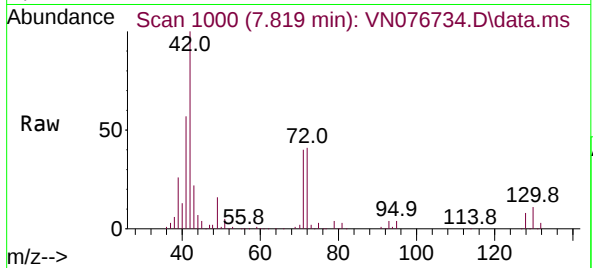




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.819 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

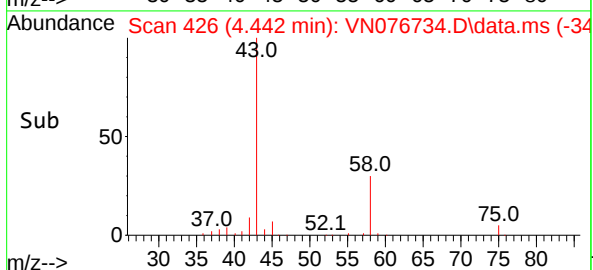
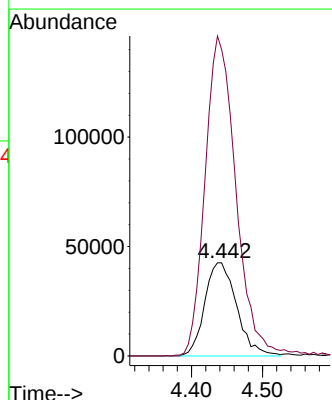
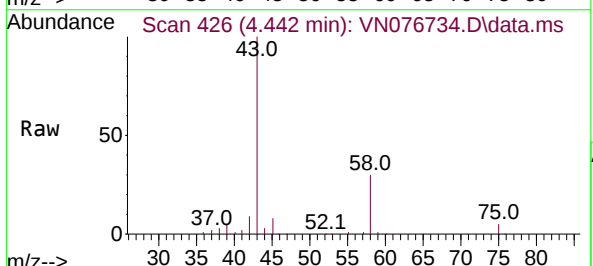
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

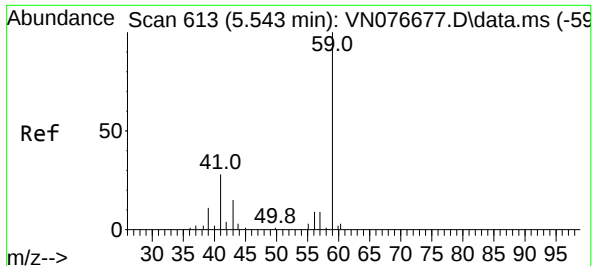
Tgt Ion:128 Resp: 28772
Ion Ratio Lower Upper
128 100
49 204.9 0.0 461.8
130 127.6 0.0 295.3



#15
Acetone
Concen: 229.506 ug/l
RT: 4.442 min Scan# 426
Delta R.T. -0.000 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

Tgt Ion: 58 Resp: 132747
Ion Ratio Lower Upper
58 100
43 328.0 255.4 383.0

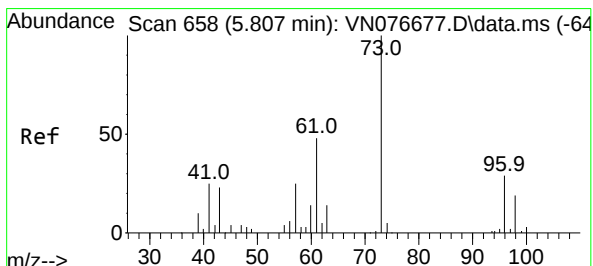
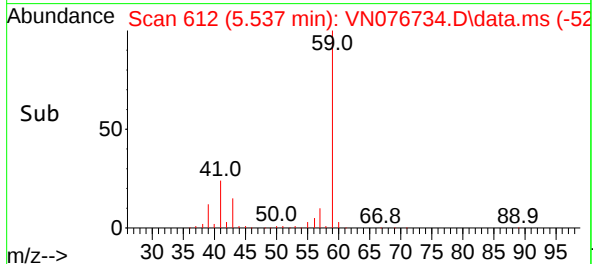
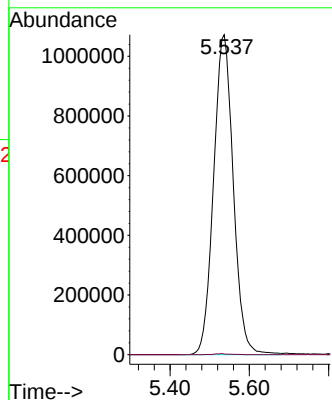
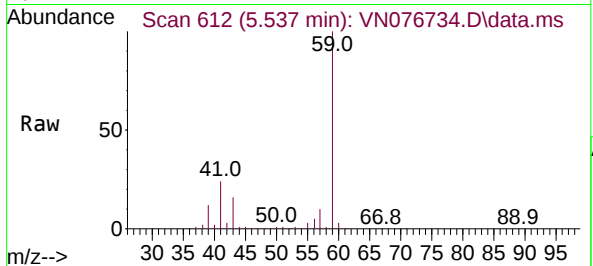




#23
tert-Butyl Alcohol
Concen: 7161.822 ug/l
RT: 5.537 min Scan# 613
Delta R.T. -0.006 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

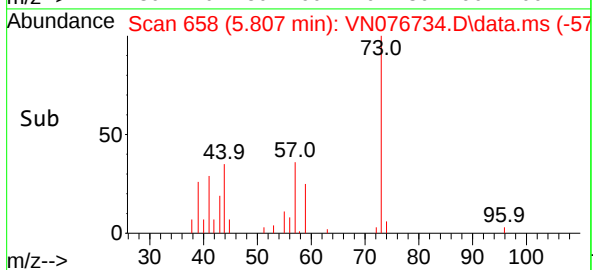
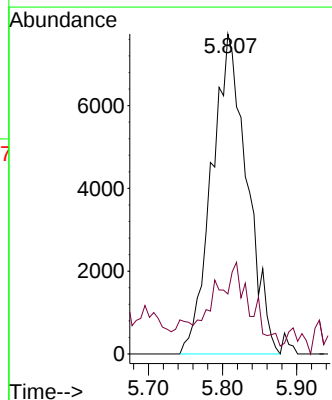
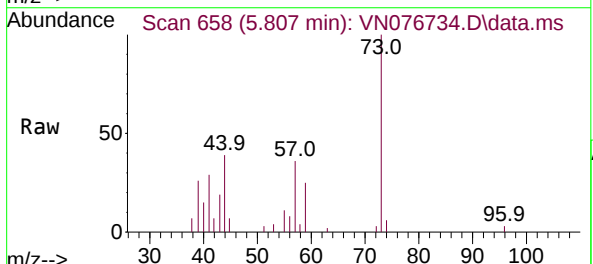
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

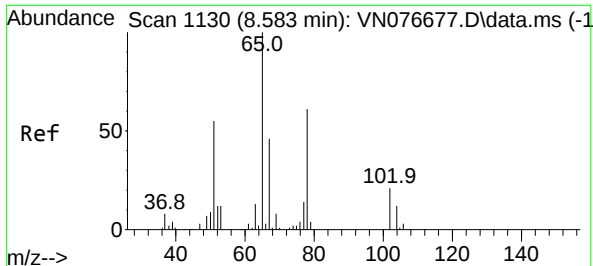
Tgt Ion: 59 Resp: 3697644
Ion Ratio Lower Upper
59 100
52 0.2 0.2 0.2



#24
Methyl tert-Butyl Ether
Concen: 2.600 ug/l
RT: 5.807 min Scan# 658
Delta R.T. -0.000 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

Tgt Ion: 73 Resp: 25548
Ion Ratio Lower Upper
73 100
43 8.3 17.8 26.6#





#27

1,2-Dichloroethane-d4

Concen: 32.149 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076734.D

Acq: 17 Feb 2023 15:04

Instrument :

MSVOA_N

ClientSampleId :

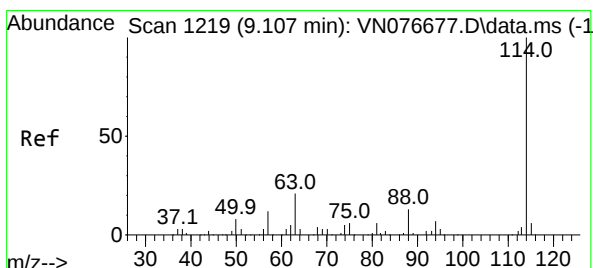
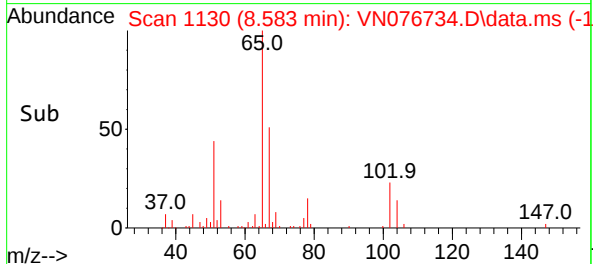
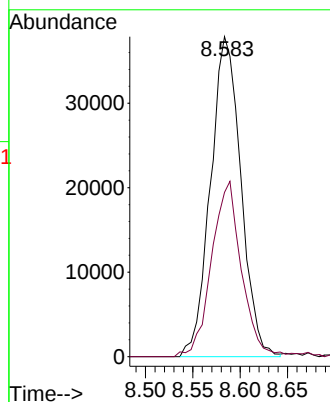
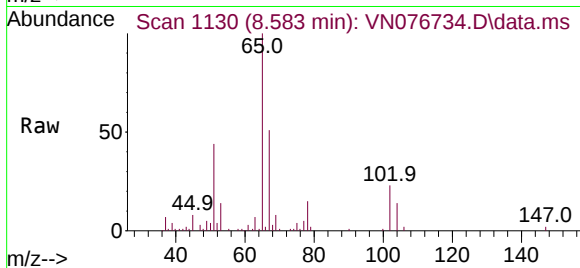
230215027-02-VOA

Tgt Ion: 65 Resp: 84601

Ion Ratio Lower Upper

65 100

67 53.3 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN076734.D

Acq: 17 Feb 2023 15:04

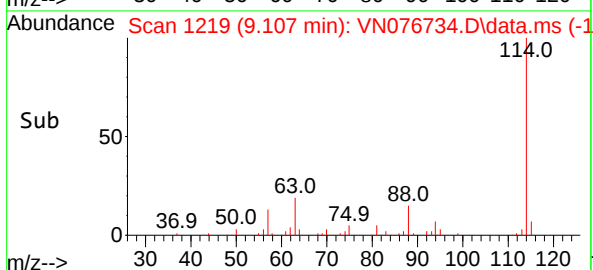
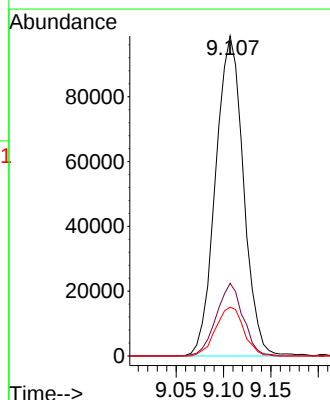
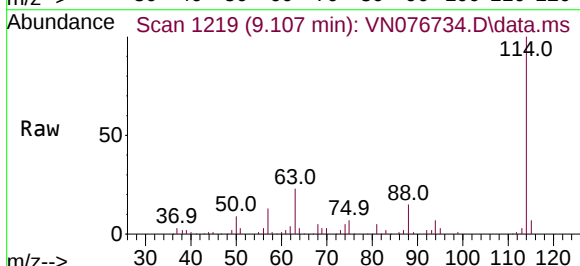
Tgt Ion: 114 Resp: 201788

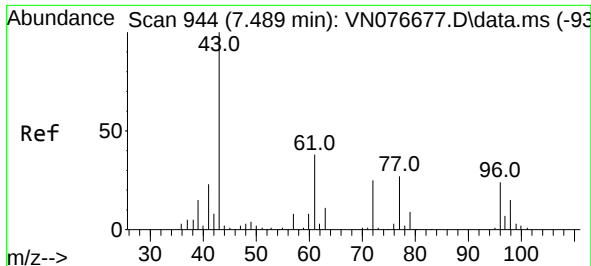
Ion Ratio Lower Upper

114 100

63 21.8 17.0 25.4

88 15.3 11.6 17.4

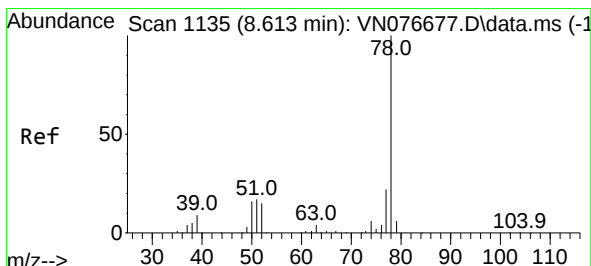
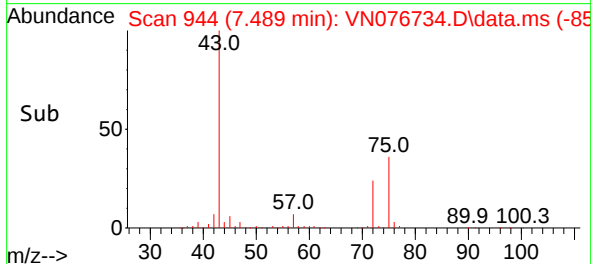
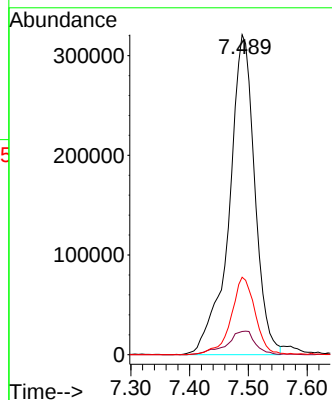
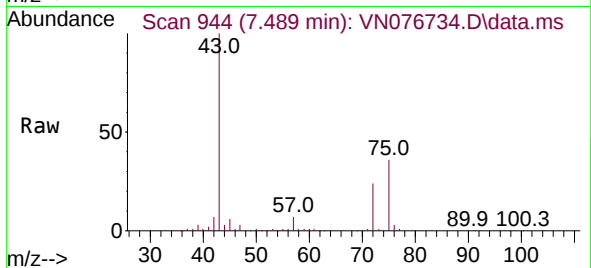




#30
2-Butanone
Concen: 363.135 ug/l
RT: 7.489 min Scan# 944
Delta R.T. -0.000 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

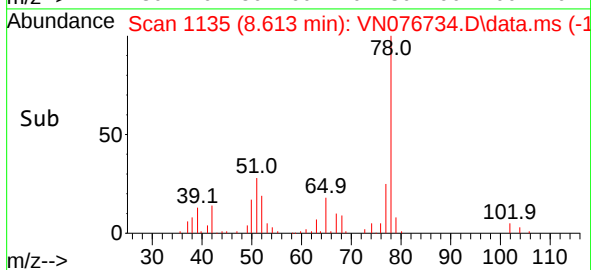
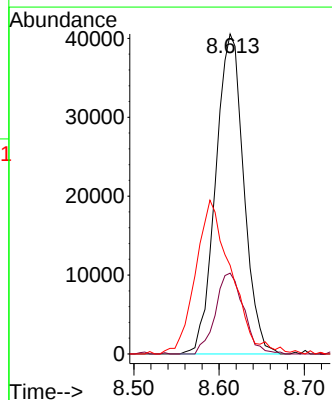
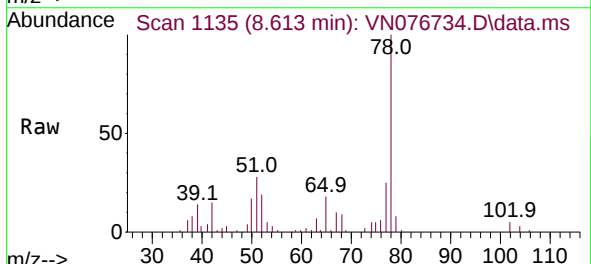
Instrument :
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ClientSampleId :
230215027-02-VOA

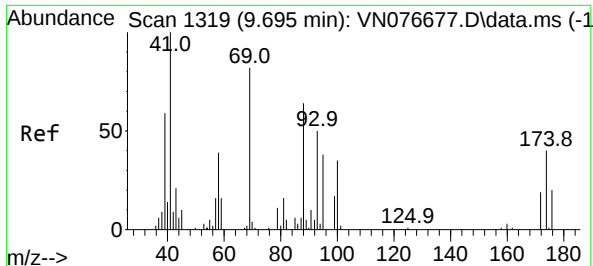
Tgt Ion: 43 Resp: 974977
Ion Ratio Lower Upper
43 100
57 8.2 6.1 9.1
72 22.8 20.2 30.4



#34
Benzene
Concen: 6.331 ug/l
RT: 8.613 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

Tgt Ion: 78 Resp: 93034
Ion Ratio Lower Upper
78 100
77 25.3 17.4 26.2
51 25.5 13.8 20.6#





#45

1,4-Dioxane

Concen: 86.942 ug/l

RT: 9.695 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN076734.D

Acq: 17 Feb 2023 15:04

Instrument :

MSVOA_N

ClientSampleId :

230215027-02-VOA

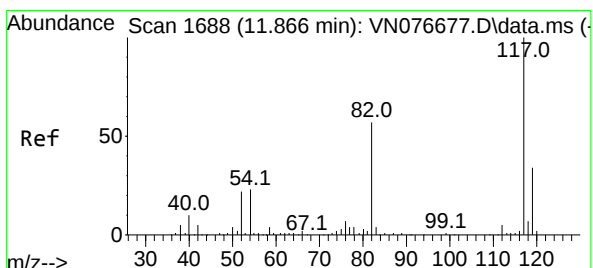
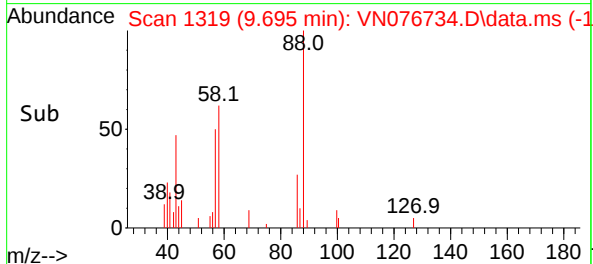
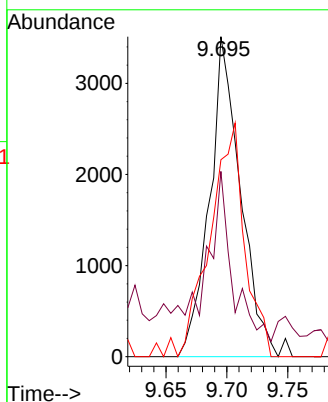
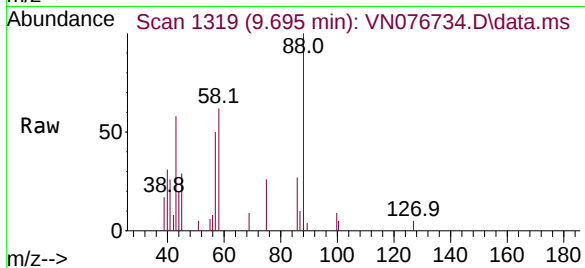
Tgt Ion: 88 Resp: 6196

Ion Ratio Lower Upper

88 100

43 21.1 26.0 39.0#

58 81.4 54.3 81.5



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.866 min Scan# 1688

Delta R.T. -0.000 min

Lab File: VN076734.D

Acq: 17 Feb 2023 15:04

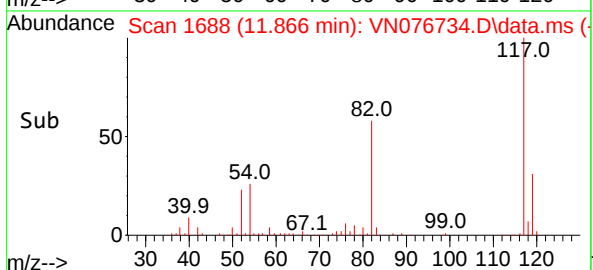
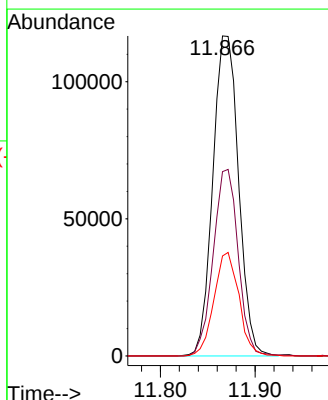
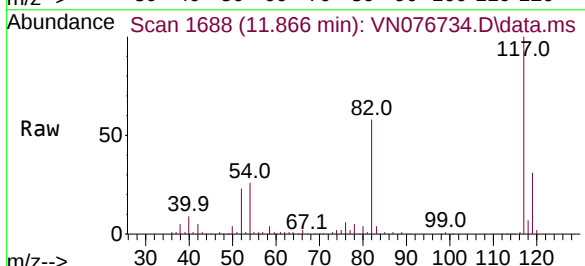
Tgt Ion: 117 Resp: 220548

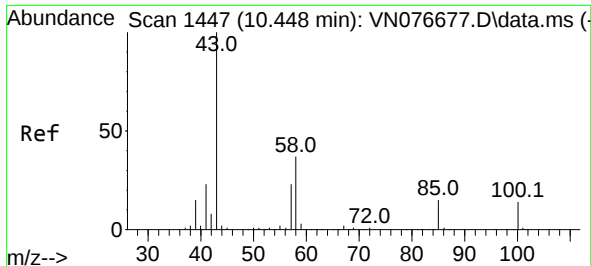
Ion Ratio Lower Upper

117 100

82 56.6 45.4 68.0

119 31.4 26.8 40.2

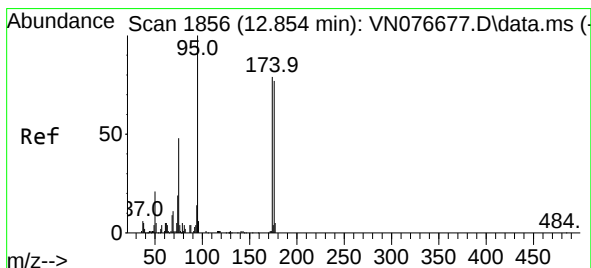
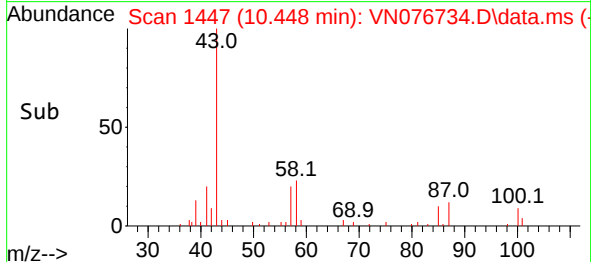
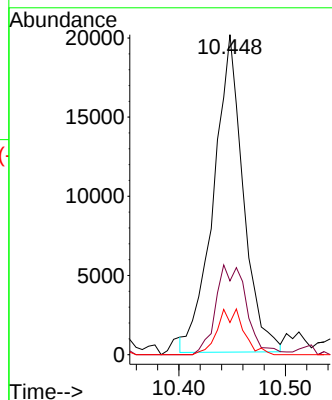
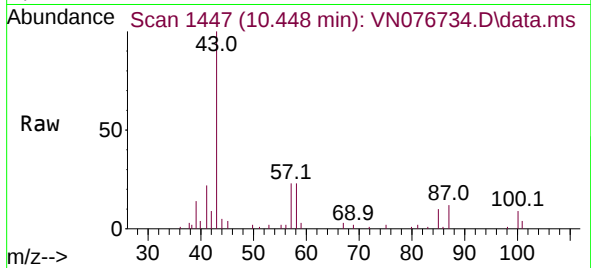




#58
4-Methyl-2-Pentanone
Concen: 7.385 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

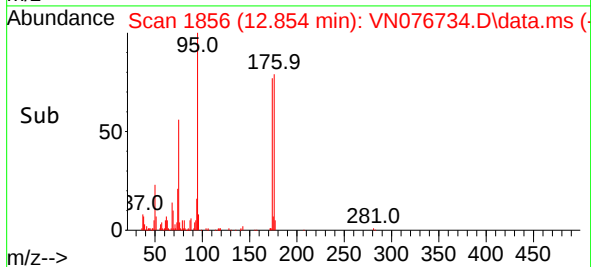
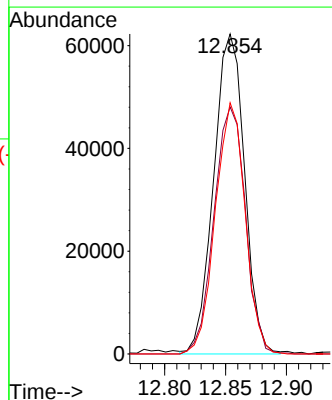
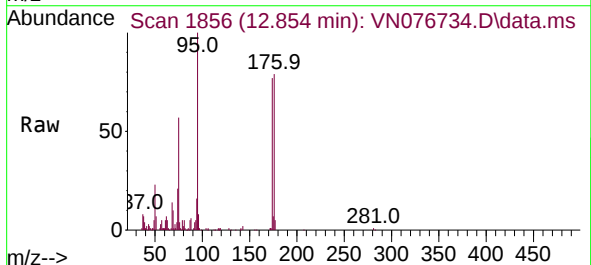
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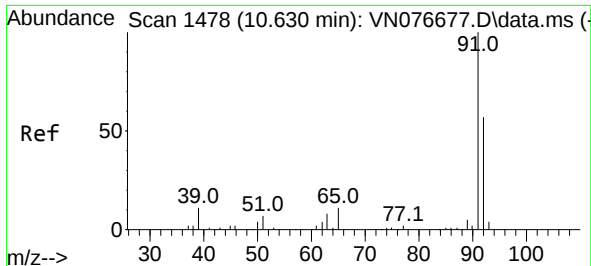
Tgt Ion: 43 Resp: 38736
Ion Ratio Lower Upper
43 100
58 15.3 28.6 42.8#
85 12.1 11.8 17.8



#60
4-Bromofluorobenzene
Concen: 28.143 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

Tgt Ion: 95 Resp: 109788
Ion Ratio Lower Upper
95 100
174 78.2 64.2 96.4
176 75.6 61.4 92.0

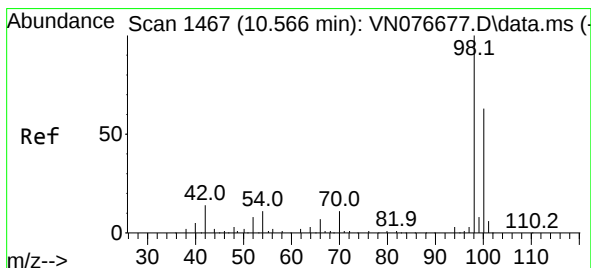
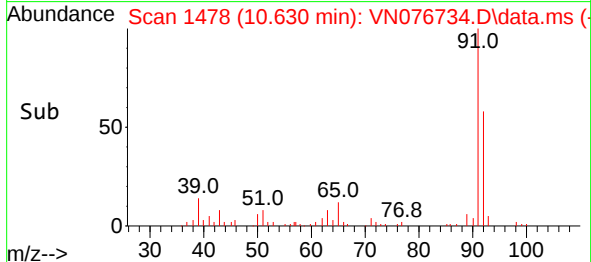
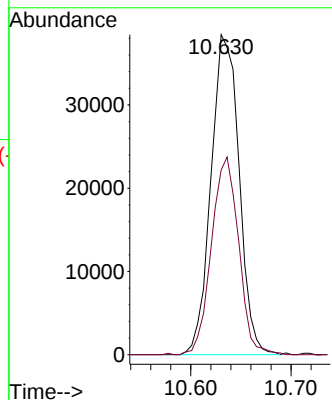
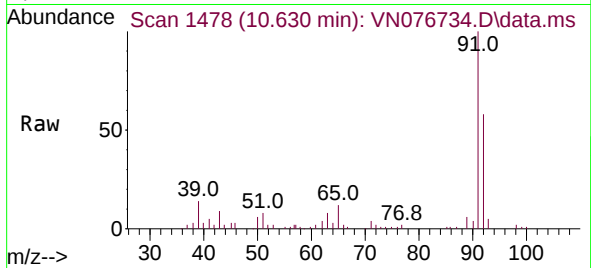




#62
Toluene
Concen: 4.849 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

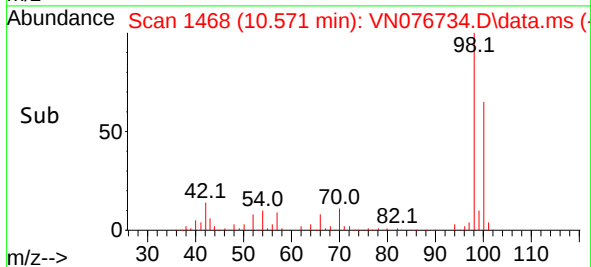
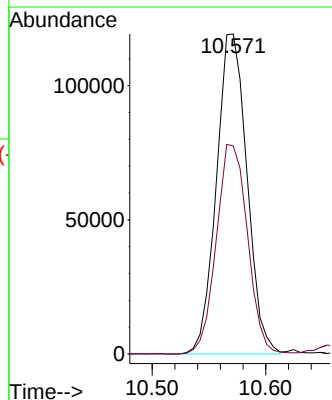
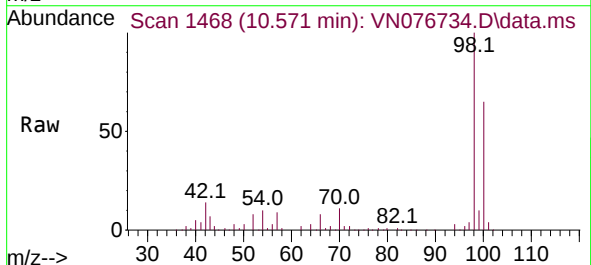
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

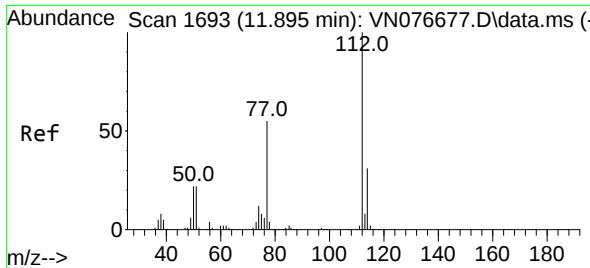
Tgt Ion: 91 Resp: 74731
Ion Ratio Lower Upper
91 100
92 59.8 46.3 69.5



#63
Toluene-d8
Concen: 28.916 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

Tgt Ion: 98 Resp: 223378
Ion Ratio Lower Upper
98 100
100 66.7 53.8 80.6

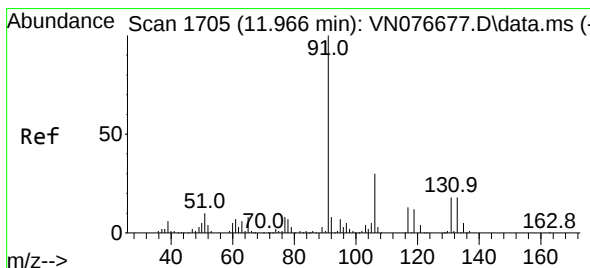
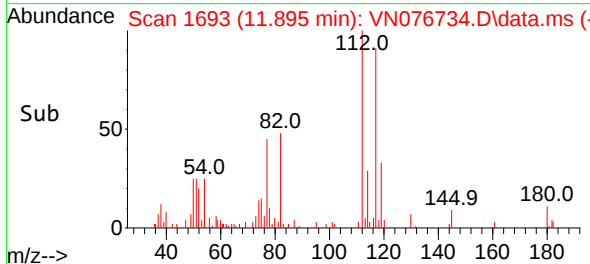
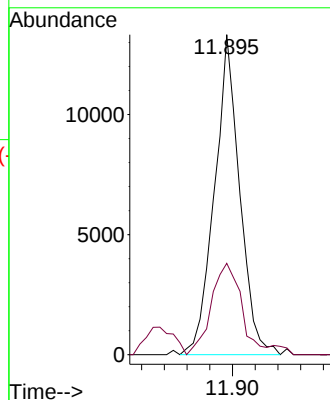
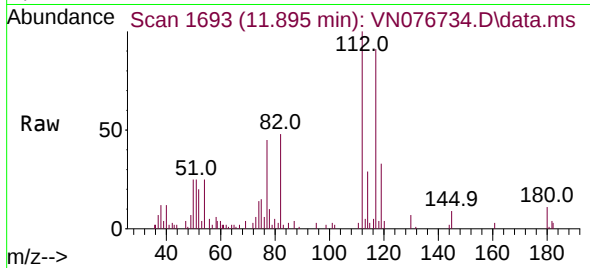




#64
Chlorobenzene
Concen: 2.233 ug/l
RT: 11.895 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

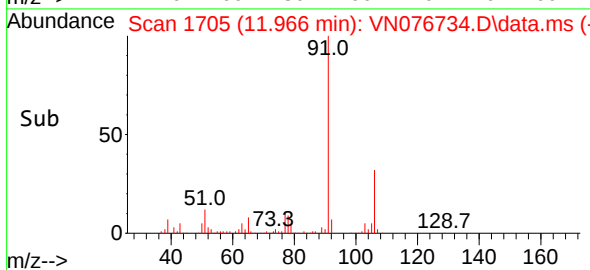
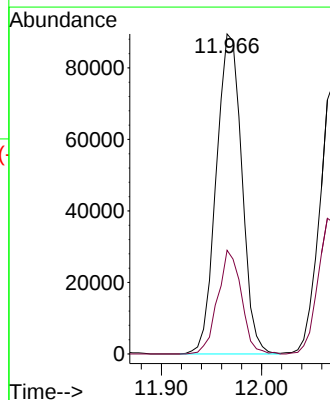
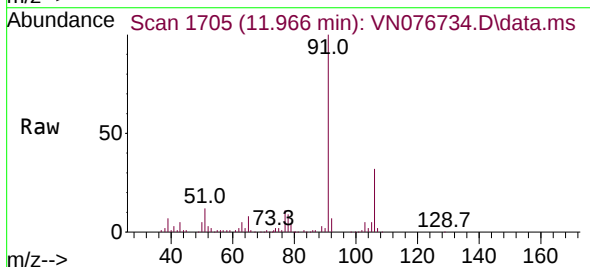
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

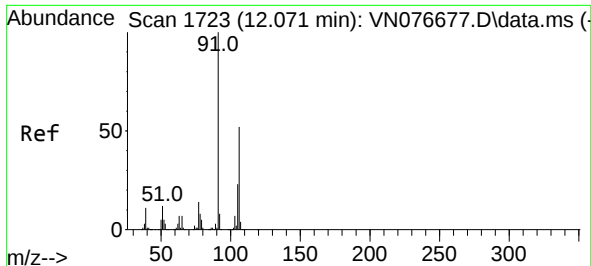
Tgt Ion:112 Resp: 20509
Ion Ratio Lower Upper
112 100
114 26.0 24.5 36.7



#66
Ethyl Benzene
Concen: 9.689 ug/l
RT: 11.966 min Scan# 1705
Delta R.T. -0.000 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

Tgt Ion: 91 Resp: 158758
Ion Ratio Lower Upper
91 100
106 32.4 23.8 35.8





#67

m/p-Xylenes

Concen: 11.984 ug/l

RT: 12.066 min Scan# 1722

Delta R.T. -0.006 min

Lab File: VN076734.D

Acq: 17 Feb 2023 15:04

Instrument :

MSVOA_N

ClientSampleId :

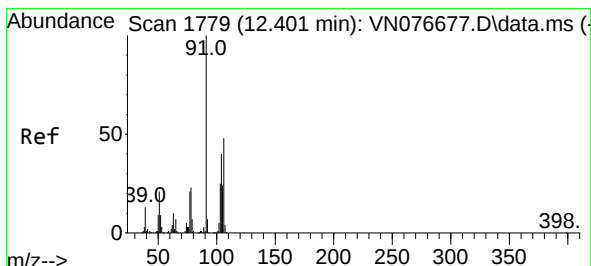
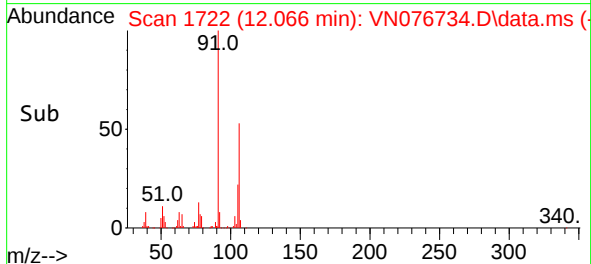
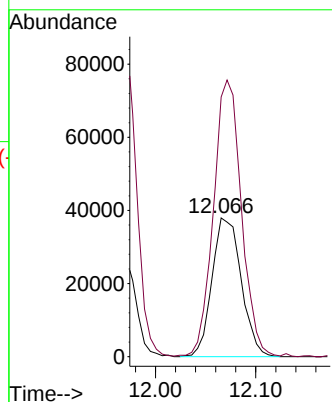
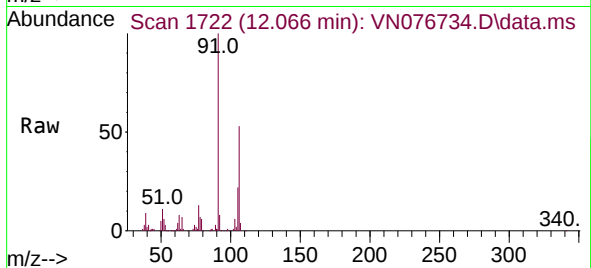
230215027-02-VOA

Tgt Ion:106 Resp: 76791

Ion Ratio Lower Upper

106 100

91 191.0 157.4 236.2



#68

o-Xylene

Concen: 6.720 ug/l

RT: 12.401 min Scan# 1779

Delta R.T. -0.000 min

Lab File: VN076734.D

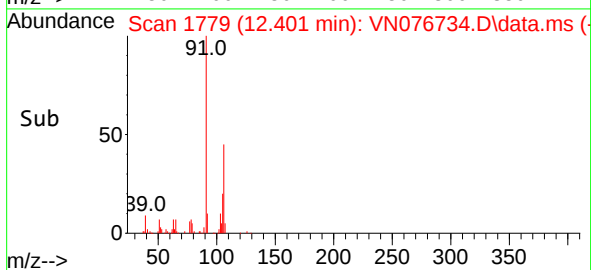
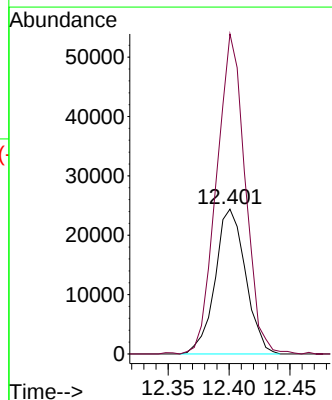
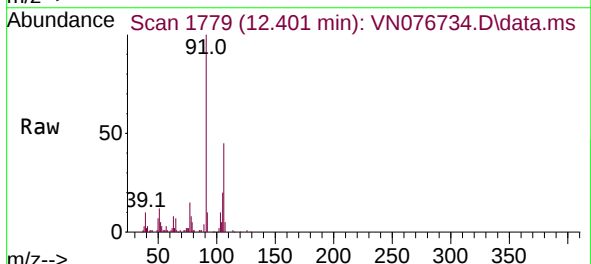
Acq: 17 Feb 2023 15:04

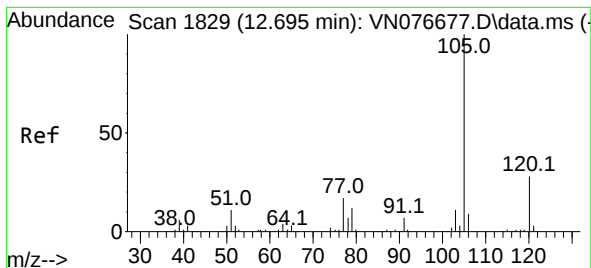
Tgt Ion:106 Resp: 42434

Ion Ratio Lower Upper

106 100

91 207.3 107.2 321.6





#70

Isopropylbenzene

Concen: 2.222 ug/l

RT: 12.701 min Scan# 1830

Delta R.T. 0.006 min

Lab File: VN076734.D

Acq: 17 Feb 2023 15:04

Instrument :

MSVOA_N

ClientSampleId :

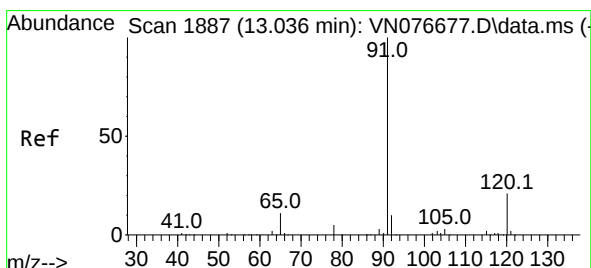
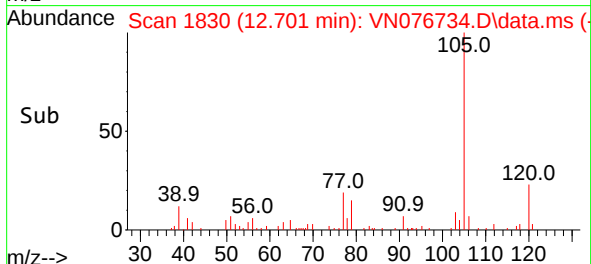
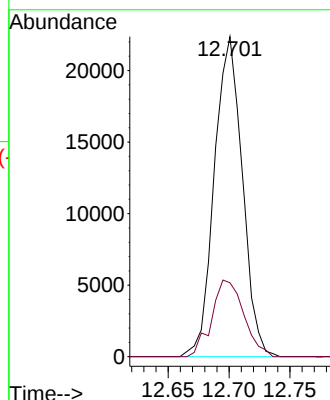
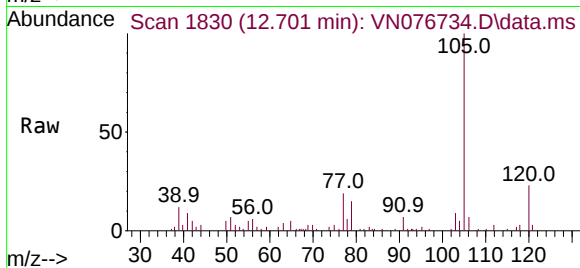
230215027-02-VOA

Tgt Ion:105 Resp: 35802

Ion Ratio Lower Upper

105 100

120 27.4 19.0 35.2



#74

n-propylbenzene

Concen: 0.445 ug/l

RT: 13.036 min Scan# 1887

Delta R.T. -0.000 min

Lab File: VN076734.D

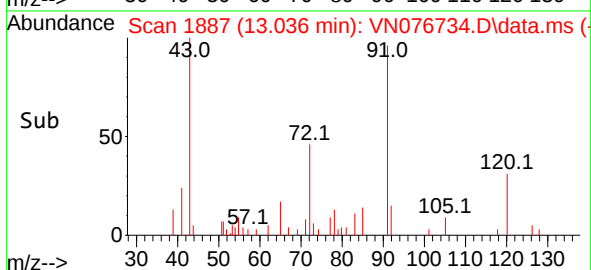
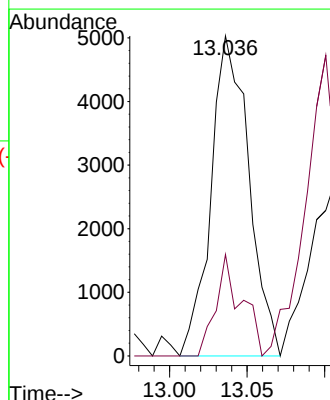
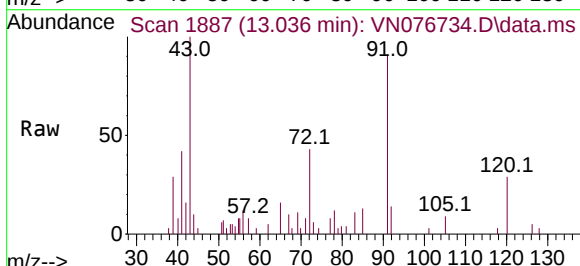
Acq: 17 Feb 2023 15:04

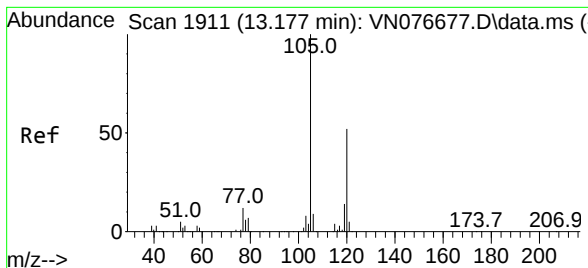
Tgt Ion: 91 Resp: 8546

Ion Ratio Lower Upper

91 100

120 14.5 0.0 44.0

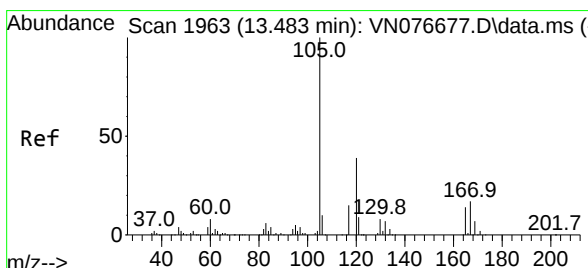
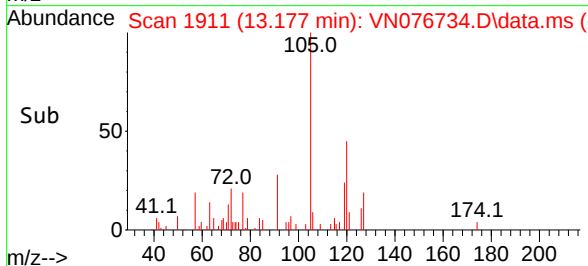
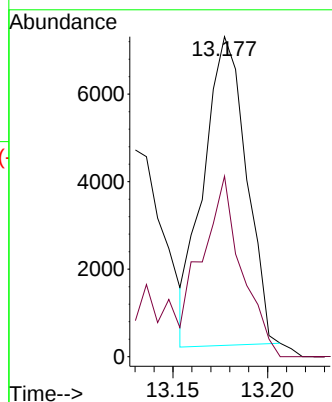
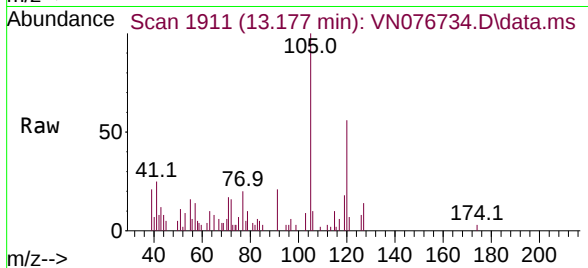




#76
 1,3,5-Trimethylbenzene
 Concen: 0.826 ug/l
 RT: 13.177 min Scan# 1911
 Delta R.T. -0.000 min
 Lab File: VN076734.D
 Acq: 17 Feb 2023 15:04

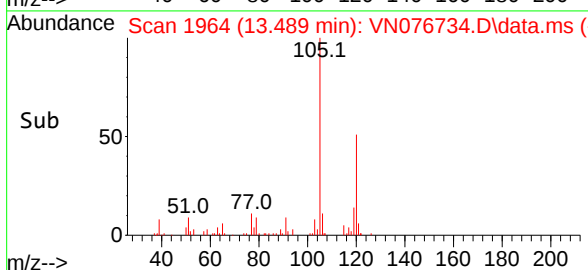
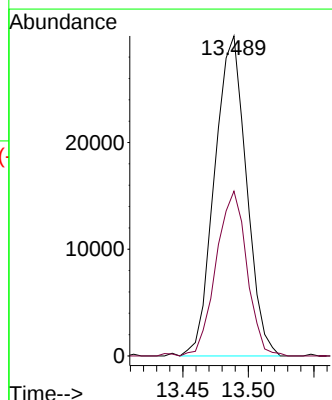
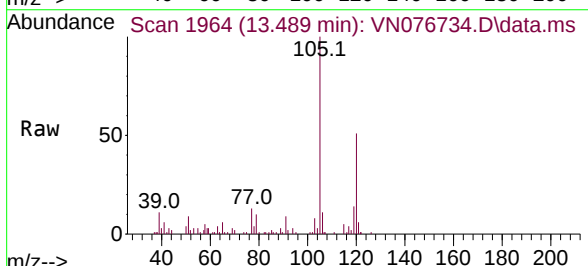
Instrument :
 MSVOA_N
 ClientSampleId :
 230215027-02-VOA

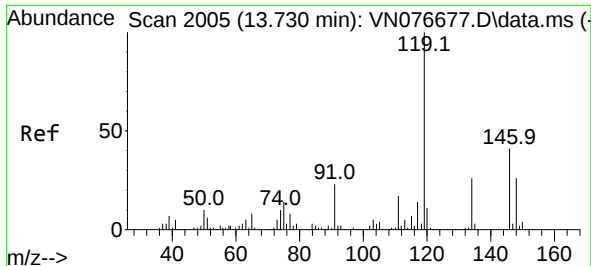
Tgt Ion:105 Resp: 11092
 Ion Ratio Lower Upper
 105 100
 120 54.3 0.0 103.2



#80
 1,2,4-Trimethylbenzene
 Concen: 3.786 ug/l
 RT: 13.489 min Scan# 1964
 Delta R.T. 0.006 min
 Lab File: VN076734.D
 Acq: 17 Feb 2023 15:04

Tgt Ion:105 Resp: 50511
 Ion Ratio Lower Upper
 105 100
 120 49.8 0.0 93.2

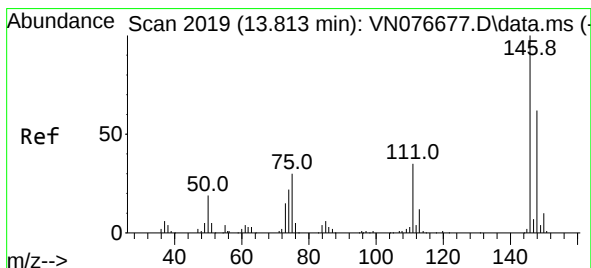
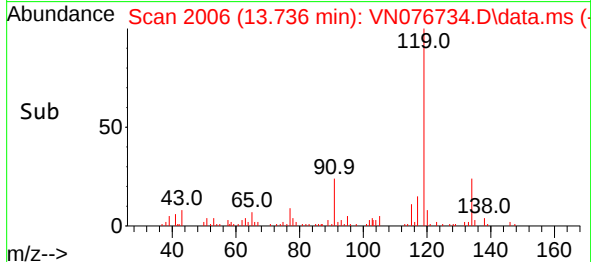
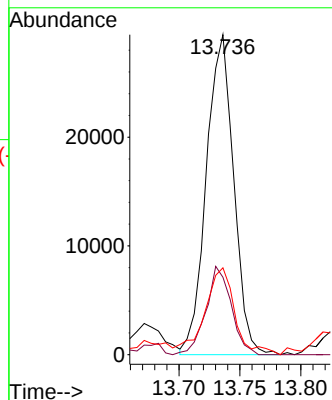
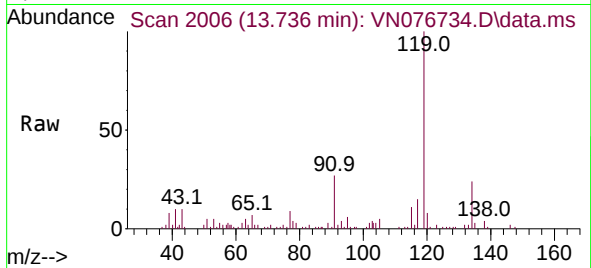




#82
p-Isopropyltoluene
Concen: 3.320 ug/l
RT: 13.736 min Scan# 2005
Delta R.T. 0.006 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

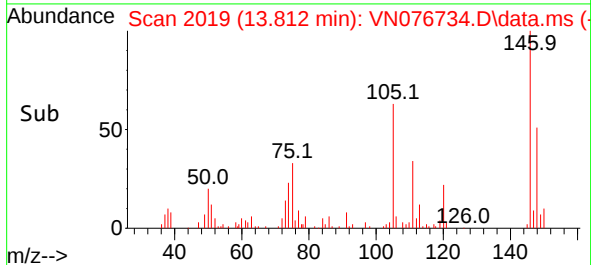
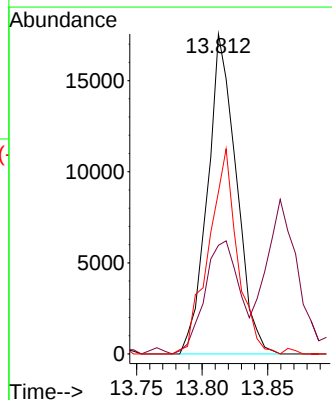
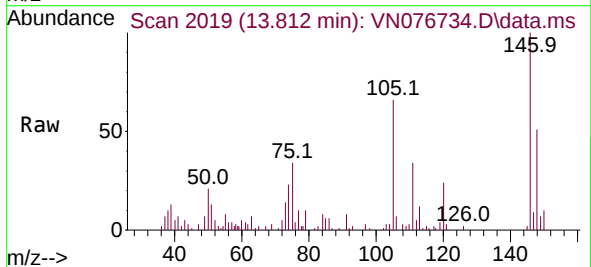
Instrument :
MSVOA_N
ClientSampleId :
230215027-02-VOA

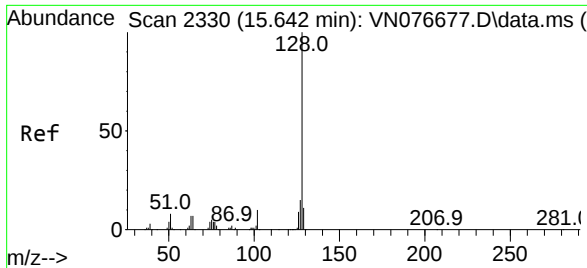
Tgt Ion:119 Resp: 45979
Ion Ratio Lower Upper
119 100
134 25.5 0.0 53.4
91 27.5 0.0 47.2



#84
1,4-Dichlorobenzene
Concen: 3.854 ug/l
RT: 13.812 min Scan# 2019
Delta R.T. -0.000 min
Lab File: VN076734.D
Acq: 17 Feb 2023 15:04

Tgt Ion:146 Resp: 26847
Ion Ratio Lower Upper
146 100
111 42.7 18.2 54.6
148 63.8 31.1 93.2





#91

Naphthalene

Concen: 39.208 ug/l

RT: 15.642 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN076734.D

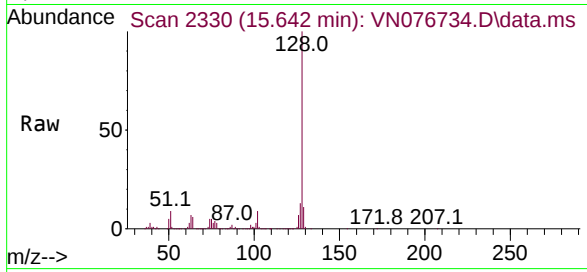
Acq: 17 Feb 2023 15:04

Instrument :

MSVOA_N

ClientSampleId :

230215027-02-VOA



Tgt Ion:128 Resp: 461864

Ion Ratio Lower Upper

128 100

127 13.2 11.0 16.6

129 11.1 8.9 13.3

