

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD021524\
 Data File : VD078440.D
 Acq On : 15 Feb 2024 17:13
 Operator : RP/MD
 Sample : P1471-03
 Misc : 5.05G/5ml/MSVOA_D/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 30984

Quant Time: Feb 16 02:38:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D021324S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 14 01:16:20 2024
 Response via : Initial Calibration

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

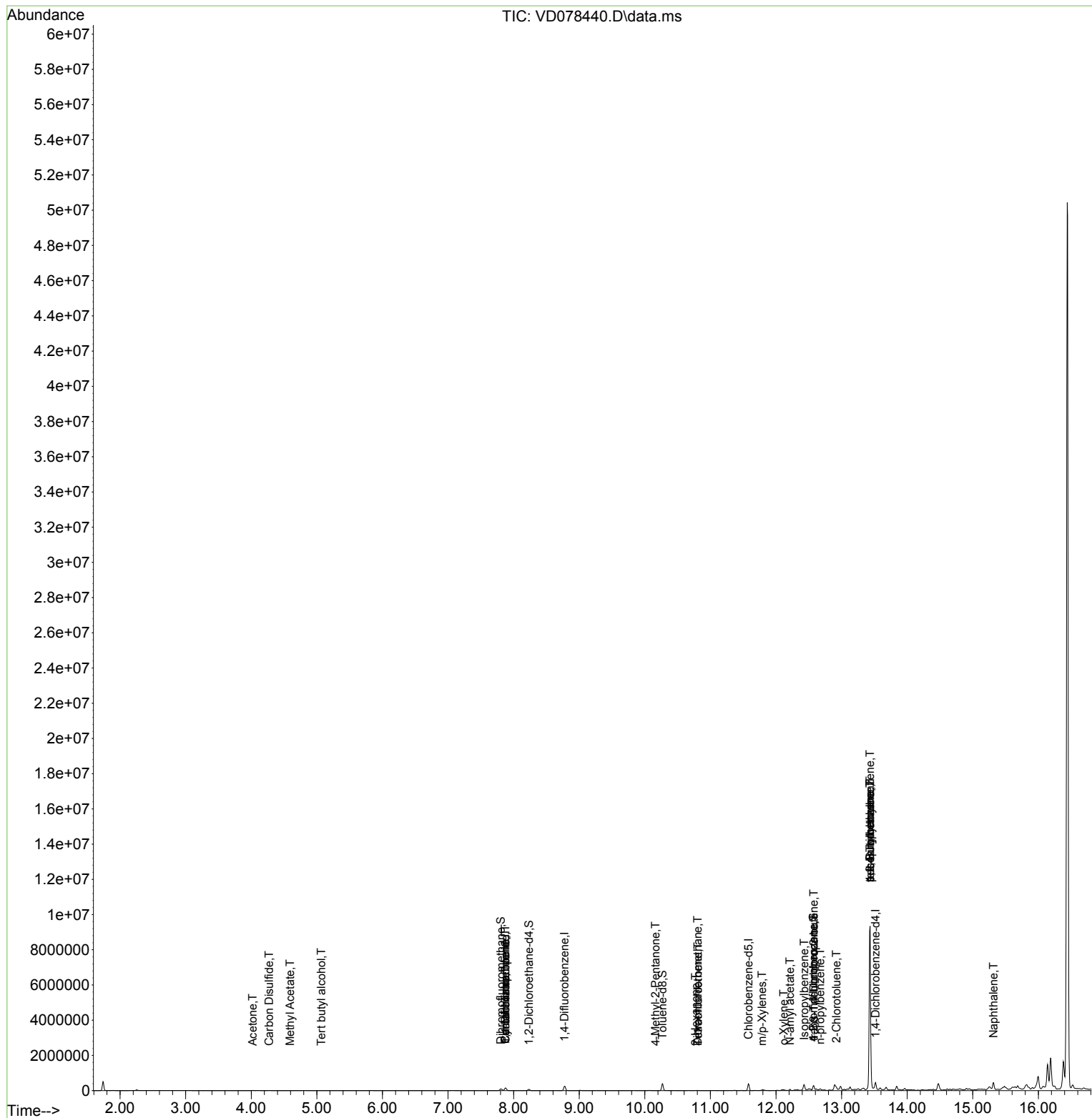
Internal Standards						
1) Pentafluorobenzene	7.875	168	117646	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	238931	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	227909	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	89631	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	54118	42.544	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	85.080%
35) Dibromofluoromethane	7.805	113	71641	47.203	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	94.400%
50) Toluene-d8	10.269	98	273966	45.125	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	90.240%
62) 4-Bromofluorobenzene	12.569	95	85989	48.670	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	97.340%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.069	59	1496	16.421	ug/l #	73
16) Acetone	4.022	43	15460	42.532	ug/l #	80
17) Carbon Disulfide	4.269	76	15855	3.674	ug/l	98
18) Methyl Acetate	4.593	43	83	4.024	ug/l #	42
23) Vinyl Acetate	6.222	43	54	Below Cal	#	63
25) 2-Butanone	7.087	43	2386	Below Cal	#	81
31) Cyclohexane	7.875	56	3146	1.462	ug/l #	27
36) 1,1-Dichloropropene	7.875	75	9072	3.848	ug/l #	45
38) Carbon Tetrachloride	7.875	117	11778	5.044	ug/l #	14
51) 4-Methyl-2-Pentanone	10.163	43	1414	1.741	ug/l #	76
59) 2-Hexanone	10.775	43	5962	9.767	ug/l	61
60) Dibromochloromethane	10.804	129	1543	1.013	ug/l #	12
64) Tetrachloroethene	10.810	164	1678	1.166	ug/l #	65
68) m/p-Xylenes	11.787	106	5242	1.637	ug/l	88
69) o-Xylene	12.116	106	6421	2.197	ug/l	83
73) Isopropylbenzene	12.428	105	13767	2.287	ug/l #	64
74) N-amyl acetate	12.210	43	13656	11.993	ug/l #	58
76) 1,2,3-Trichloropropane	12.575	75	44473	58.445	ug/l #	100
78) n-propylbenzene	12.675	91	8174	1.090	ug/l #	50
79) 2-Chlorotoluene	12.922	91	18164	4.522	ug/l #	39
81) trans-1,4-Dichloro-2-b...	12.575	75	44473	121.333	ug/l #	18
83) tert-Butylbenzene	13.434	119	138088	32.763	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.434	105	144845	28.557	ug/l #	58
85) sec-Butylbenzene	13.434	105	145462	22.254	ug/l #	68
86) p-Isopropyltoluene	13.434	119	219657	39.454	ug/l #	1
95) Naphthalene	15.316	128	3819	1.382	ug/l #	1

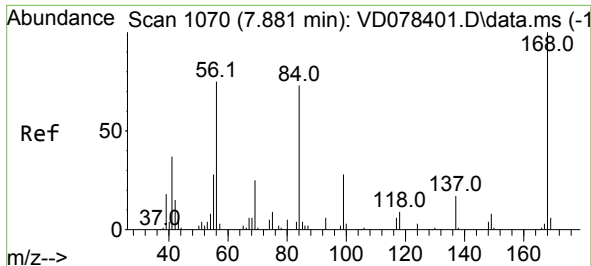
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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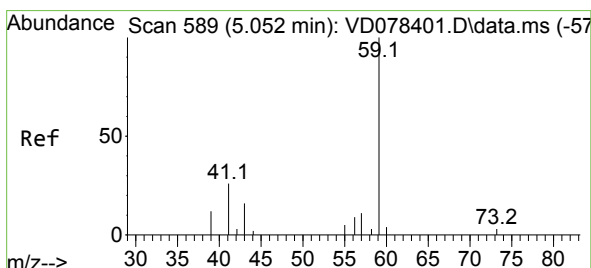
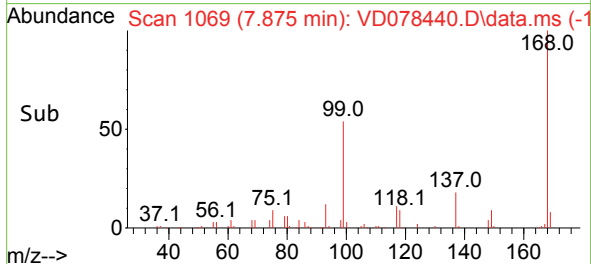
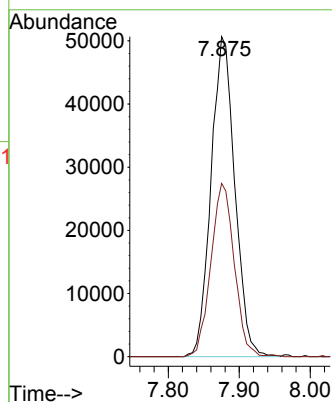
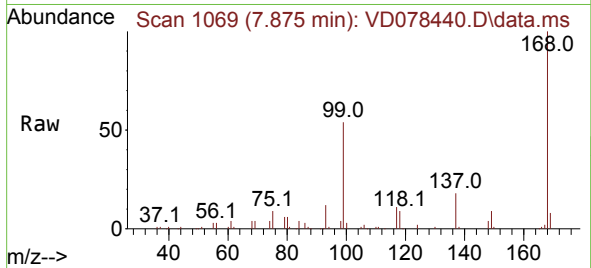




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.006 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

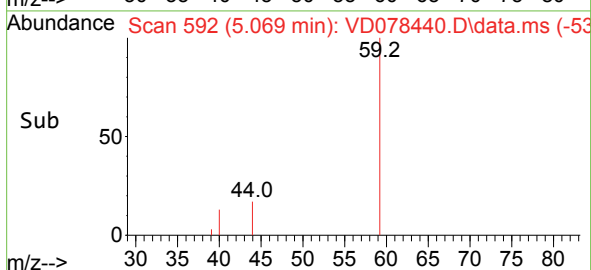
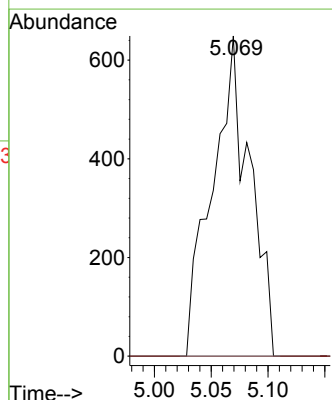
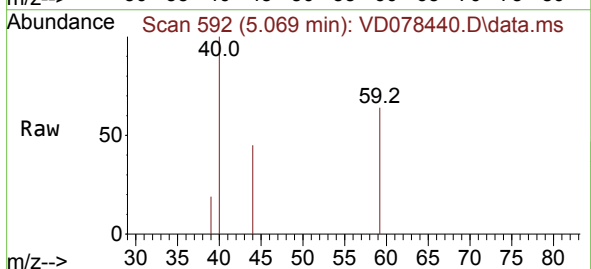
Instrument :
MSVOA_D
ClientSampleId :
30984

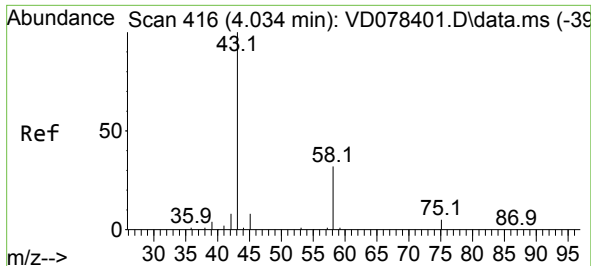
Tgt Ion:168 Resp: 117646
Ion Ratio Lower Upper
168 100
99 54.2 36.7 55.1



#11
Tert butyl alcohol
Concen: 16.421 ug/l
RT: 5.069 min Scan# 592
Delta R.T. 0.017 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Tgt Ion: 59 Resp: 1496
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#





#16

Acetone

Concen: 42.532 ug/l

RT: 4.022 min Scan# 41

Delta R.T. -0.012 min

Lab File: VD078440.D

Acq: 15 Feb 2024 17:13

Instrument :

MSVOA_D

ClientSampleId :

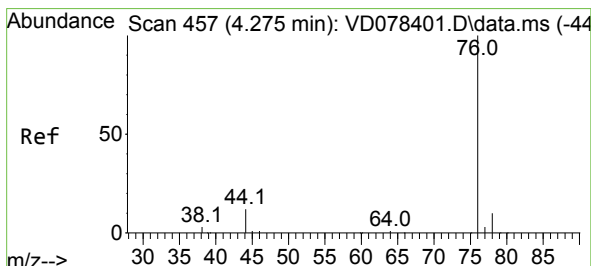
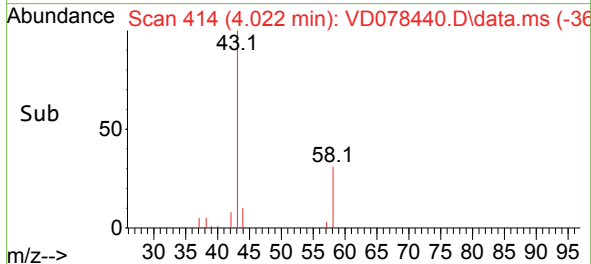
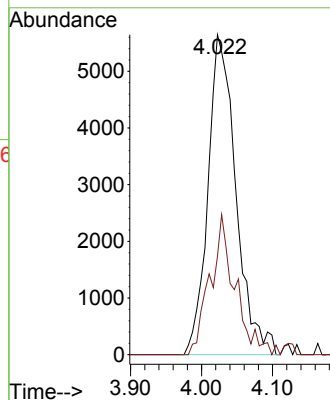
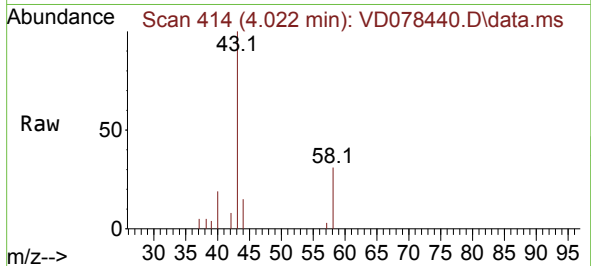
30984

Tgt Ion: 43 Resp: 15460

Ion Ratio Lower Upper

43 100

58 30.8 34.7 52.1#



#17

Carbon Disulfide

Concen: 3.674 ug/l

RT: 4.269 min Scan# 456

Delta R.T. -0.006 min

Lab File: VD078440.D

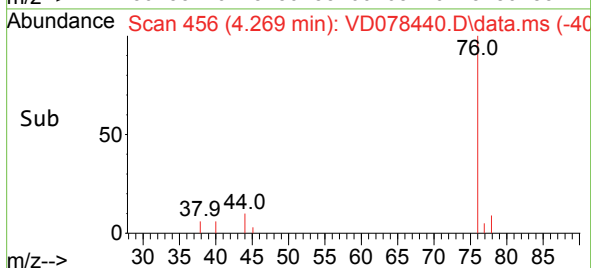
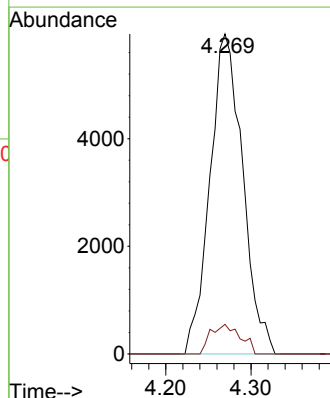
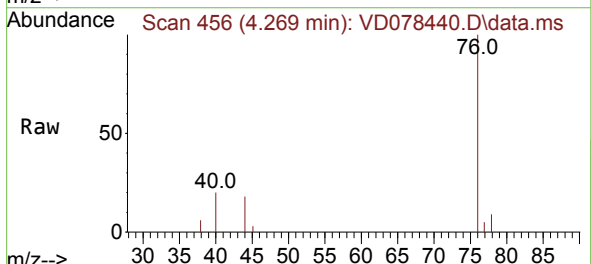
Acq: 15 Feb 2024 17:13

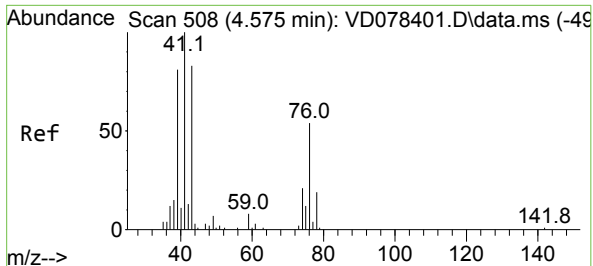
Tgt Ion: 76 Resp: 15855

Ion Ratio Lower Upper

76 100

78 9.3 6.8 10.2

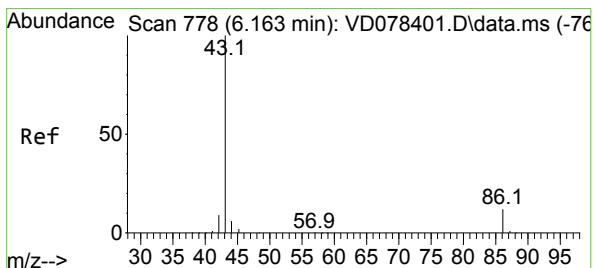
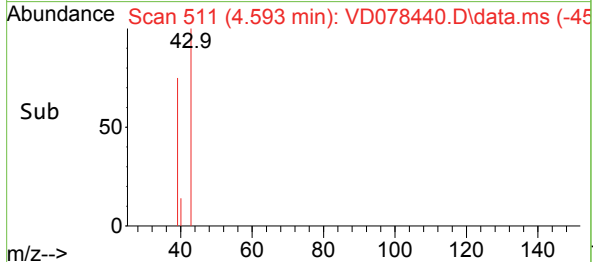
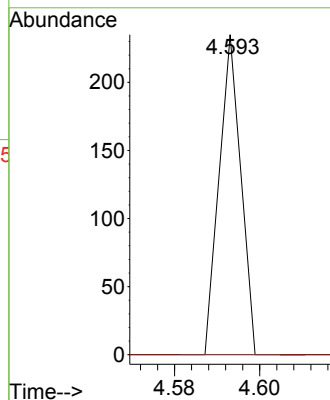
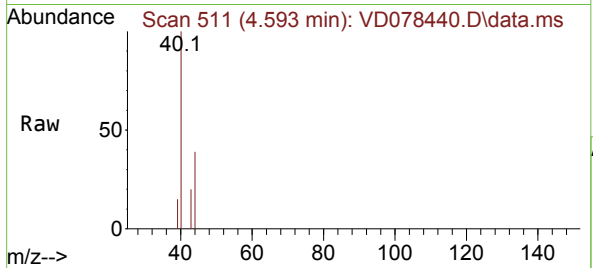




#18
Methyl Acetate
Concen: 4.024 ug/l
RT: 4.593 min Scan# 511
Delta R.T. 0.018 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

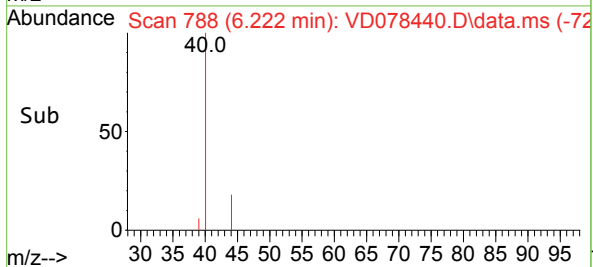
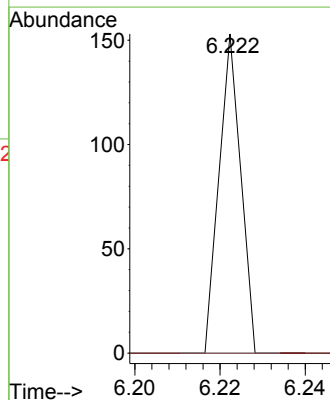
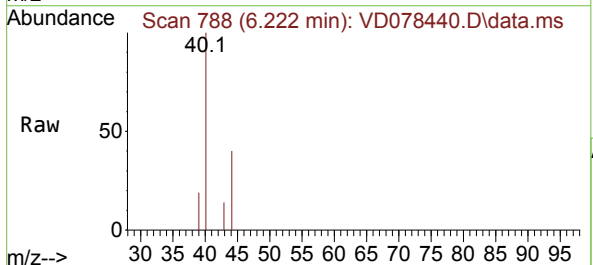
Instrument :
MSVOA_D
ClientSampleId :
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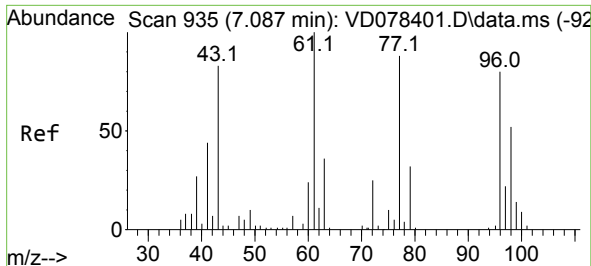
Tgt Ion: 43 Resp: 83
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#



#23
Vinyl Acetate
Concen: Below Cal
RT: 6.222 min Scan# 788
Delta R.T. 0.059 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
86 0.0 12.5 18.7#

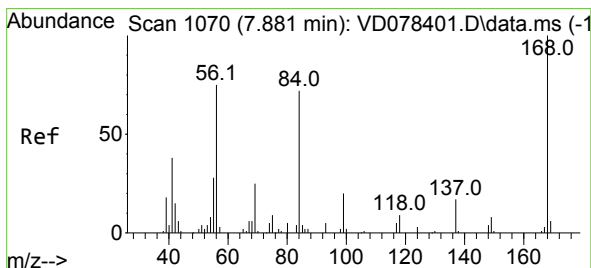
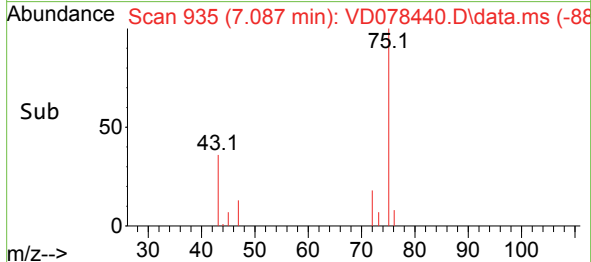
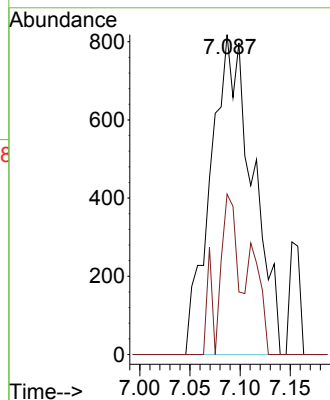
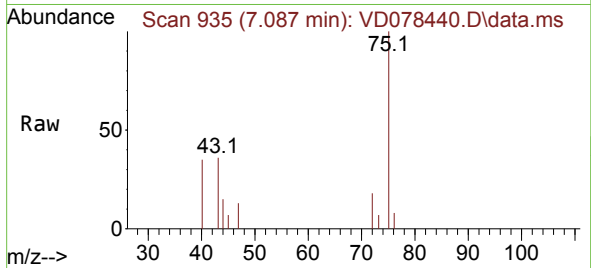




#25
2-Butanone
Concen: Below Cal
RT: 7.087 min Scan# 91
Delta R.T. 0.000 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

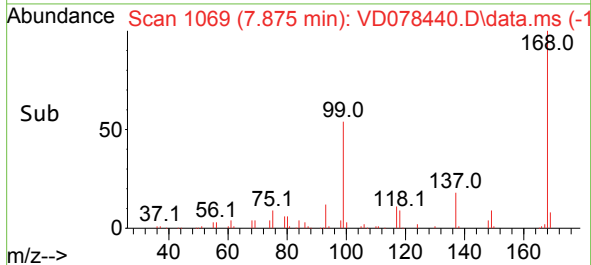
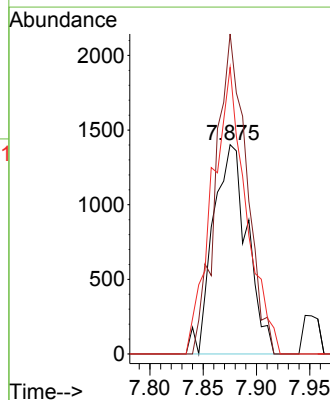
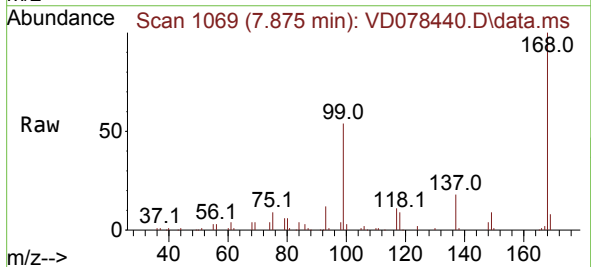
Instrument :
MSVOA_D
ClientSampleId :
30984

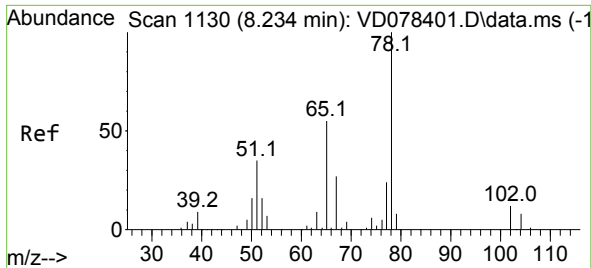
Tgt Ion: 43 Resp: 2386
Ion Ratio Lower Upper
43 100
72 50.1 30.7 46.1#



#31
Cyclohexane
Concen: 1.462 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.006 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Tgt Ion: 56 Resp: 3146
Ion Ratio Lower Upper
56 100
69 152.9 28.6 43.0#
84 136.9 84.8 127.2#





#33

1,2-Dichloroethane-d4

Concen: 42.544 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VD078440.D

Acq: 15 Feb 2024 17:13

Instrument :

MSVOA_D

ClientSampleId :

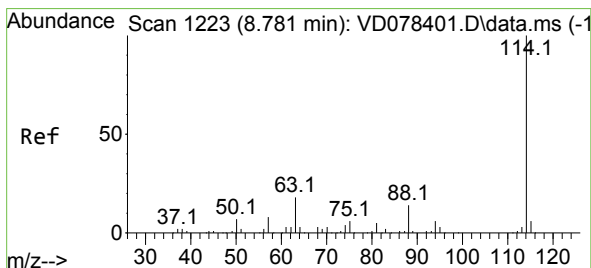
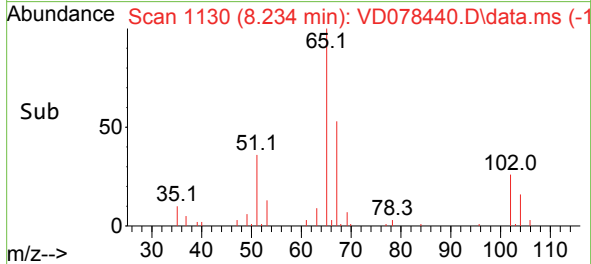
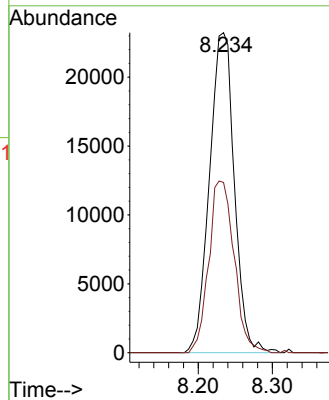
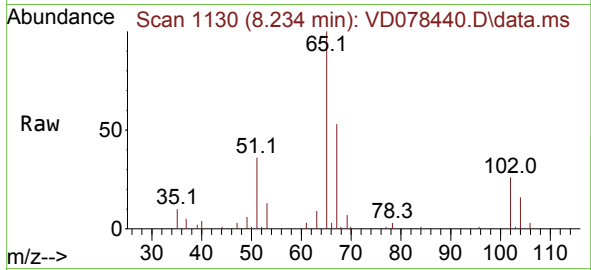
30984

Tgt Ion: 65 Resp: 54118

Ion Ratio Lower Upper

65 100

67 54.7 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.006 min

Lab File: VD078440.D

Acq: 15 Feb 2024 17:13

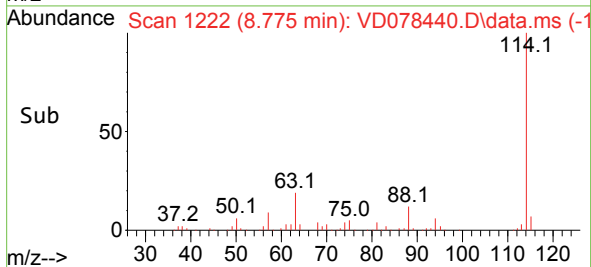
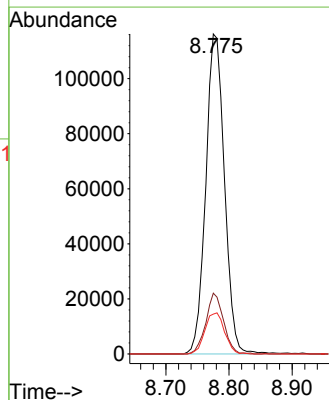
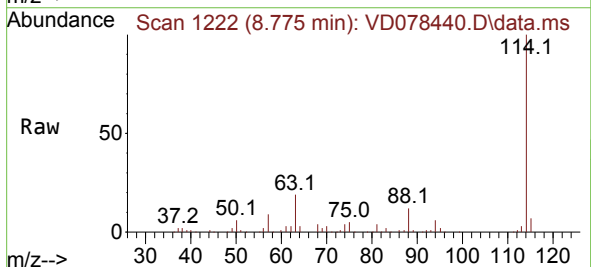
Tgt Ion:114 Resp: 238931

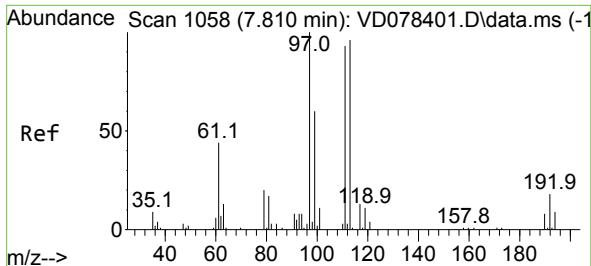
Ion Ratio Lower Upper

114 100

63 19.0 0.0 33.4

88 12.5 0.0 26.2





#35

Dibromofluoromethane

Concen: 47.203 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VD078440.D

Acq: 15 Feb 2024 17:13

Instrument :

MSVOA_D

ClientSampleId :

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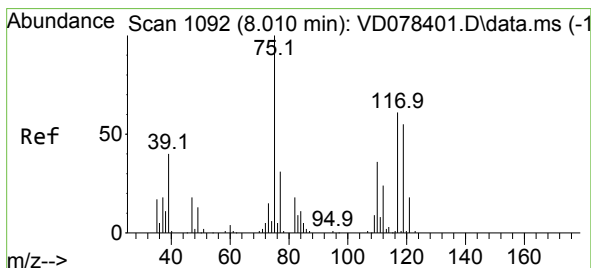
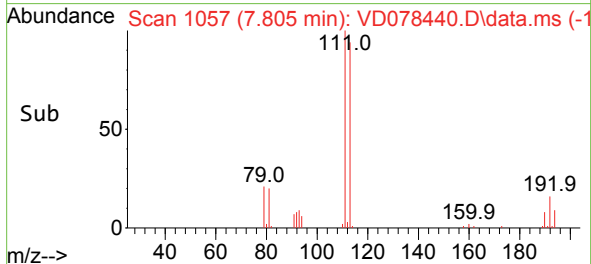
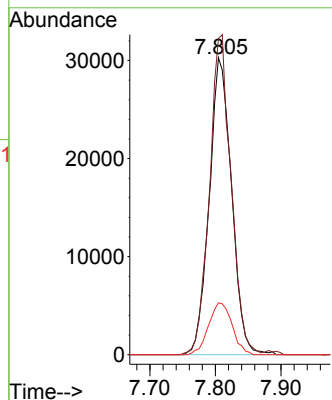
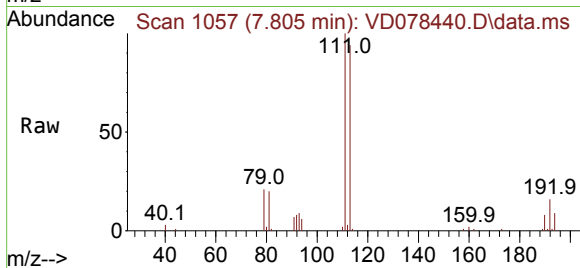
Tgt Ion:113 Resp: 71641

Ion Ratio Lower Upper

113 100

111 104.3 84.7 127.1

192 18.4 16.8 25.2



#36

1,1-Dichloropropene

Concen: 3.848 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD078440.D

Acq: 15 Feb 2024 17:13

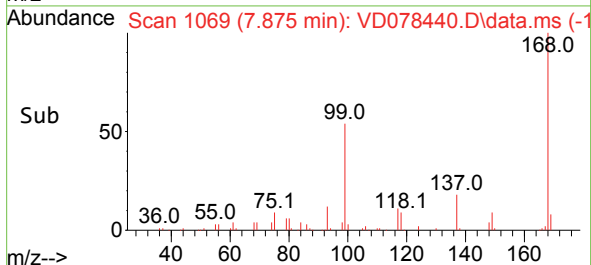
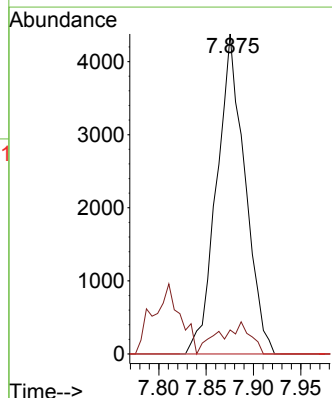
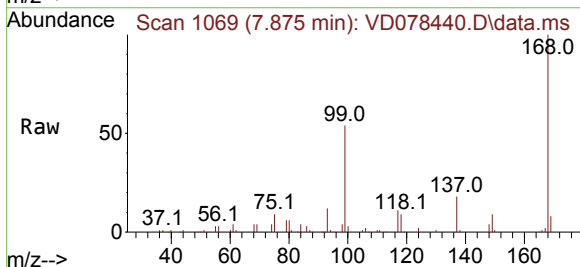
Tgt Ion: 75 Resp: 9072

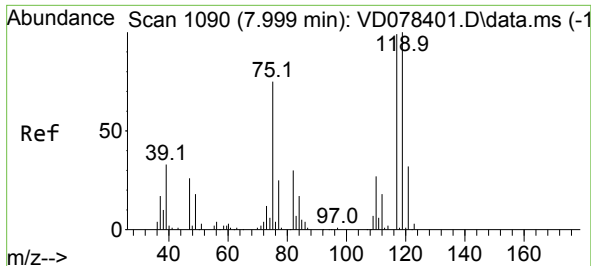
Ion Ratio Lower Upper

75 100

110 6.7 19.9 59.6#

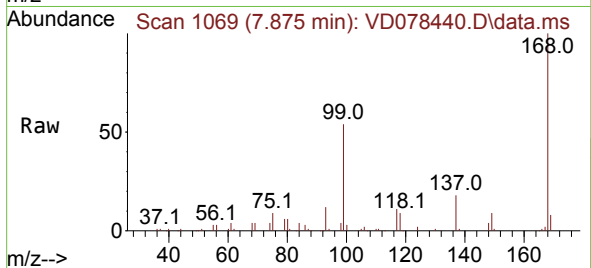
77 0.0 24.7 37.1#



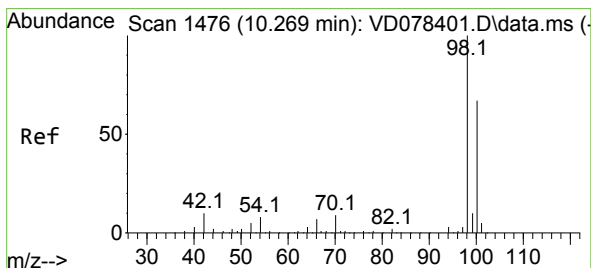
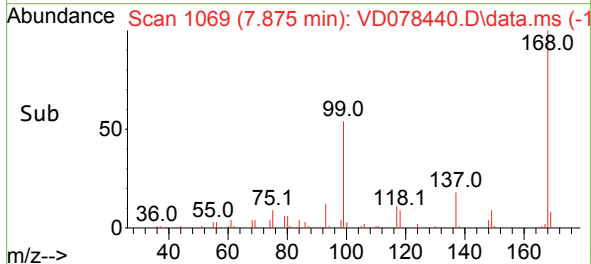
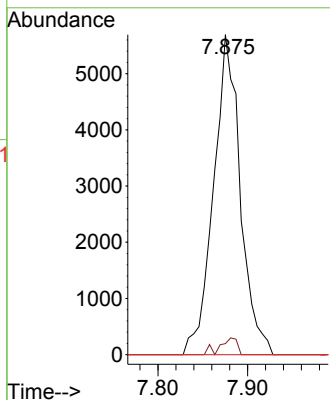


#38
Carbon Tetrachloride
Concen: 5.044 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.123 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Instrument :
MSVOA_D
ClientSampleId :
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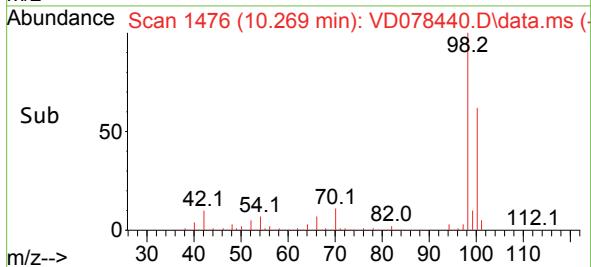
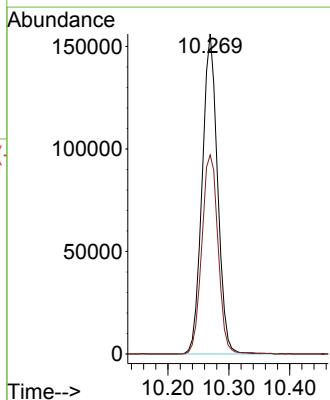
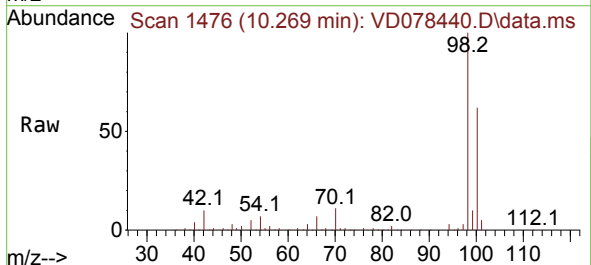


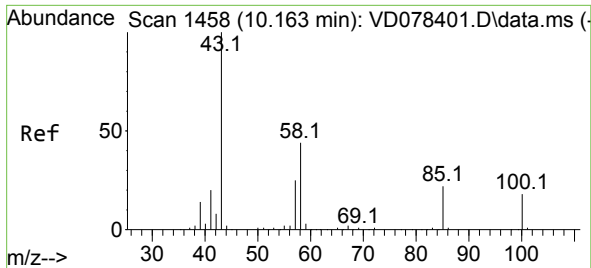
Tgt Ion:117 Resp: 11778
Ion Ratio Lower Upper
117 100
119 3.4 78.0 117.0#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 45.125 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Tgt Ion: 98 Resp: 273966
Ion Ratio Lower Upper
98 100
100 65.3 50.3 75.5

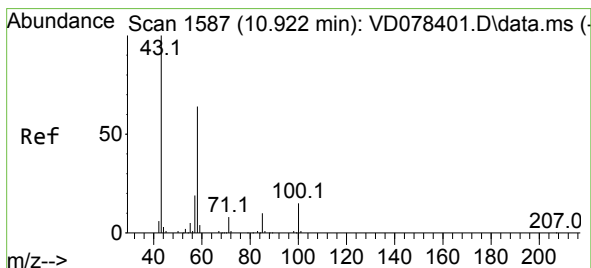
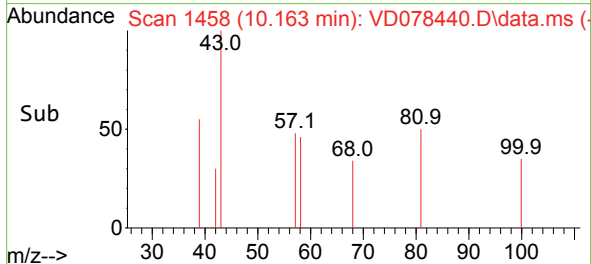
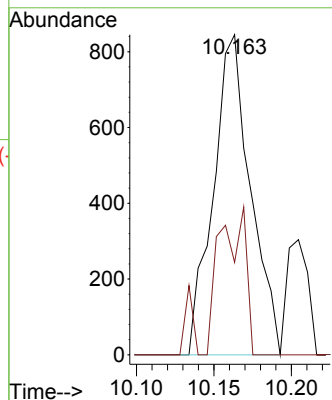
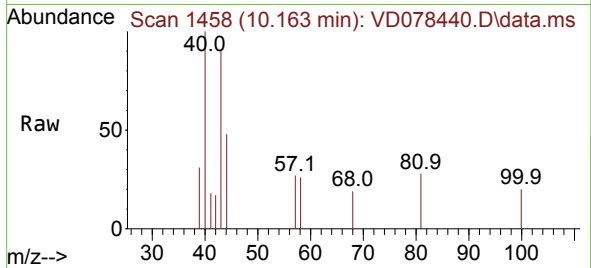




#51
4-Methyl-2-Pentanone
Concen: 1.741 ug/l
RT: 10.163 min Scan# 1458
Delta R.T. 0.000 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

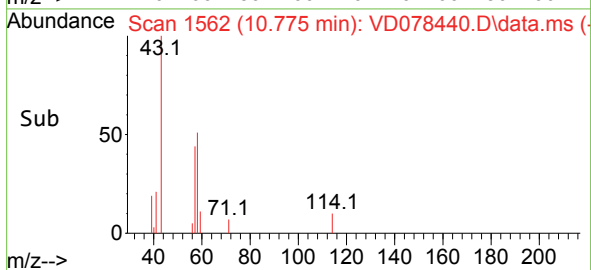
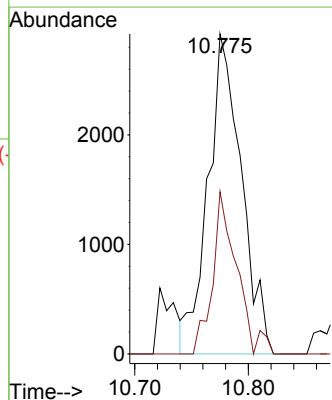
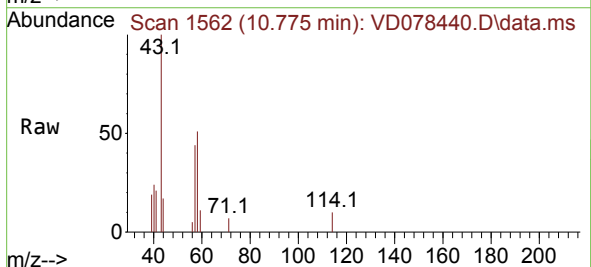
Instrument :
MSVOA_D
ClientSampleId :
30984

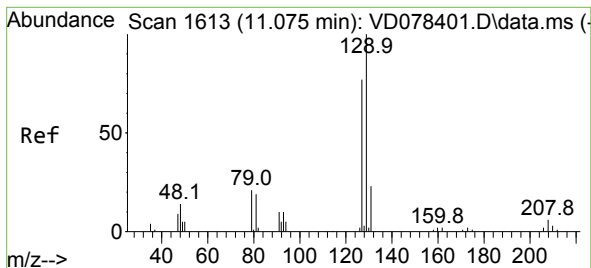
Tgt Ion: 43 Resp: 1414
Ion Ratio Lower Upper
43 100
58 32.1 38.9 58.3#



#59
2-Hexanone
Concen: 9.767 ug/l
RT: 10.775 min Scan# 1562
Delta R.T. -0.147 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Tgt Ion: 43 Resp: 5962
Ion Ratio Lower Upper
43 100
58 36.9 34.1 102.2

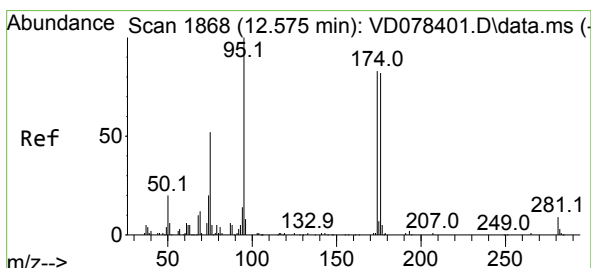
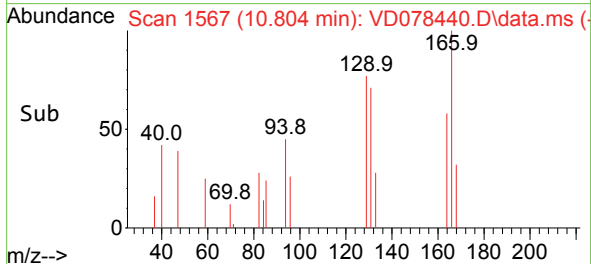
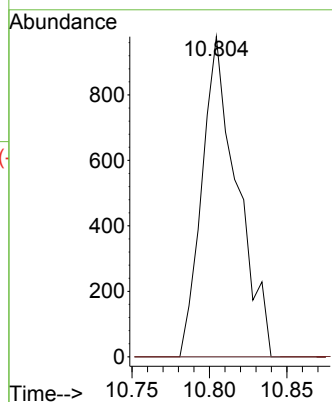
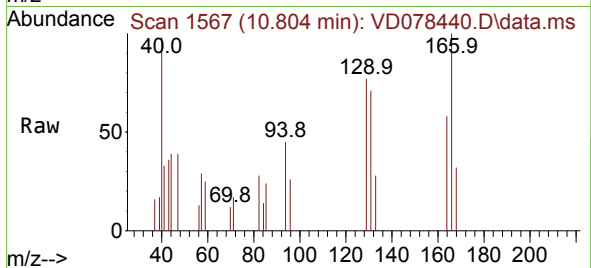




#60
Dibromochloromethane
Concen: 1.013 ug/l
RT: 10.804 min Scan# 1567
Delta R.T. -0.270 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

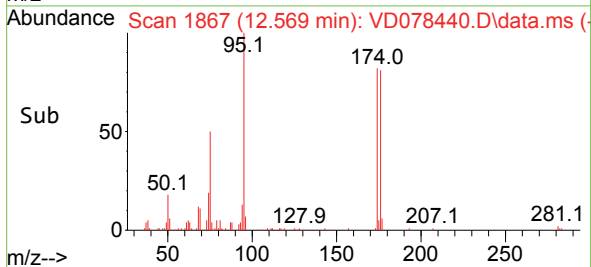
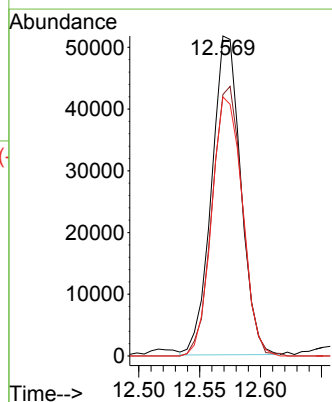
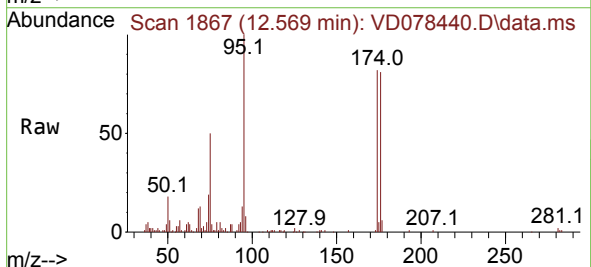
Instrument :
MSVOA_D
ClientSampleId :
30984

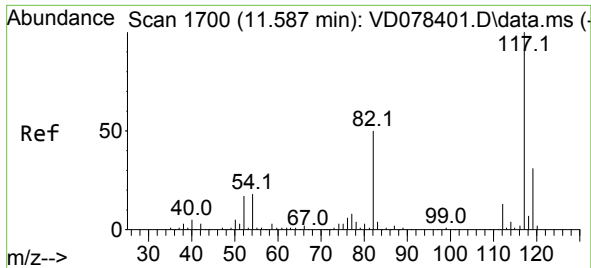
Tgt Ion:129 Resp: 1543
Ion Ratio Lower Upper
129 100
127 0.0 37.1 111.5#



#62
4-Bromofluorobenzene
Concen: 48.670 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Tgt Ion: 95 Resp: 85989
Ion Ratio Lower Upper
95 100
174 87.5 0.0 201.8
176 85.5 0.0 191.8

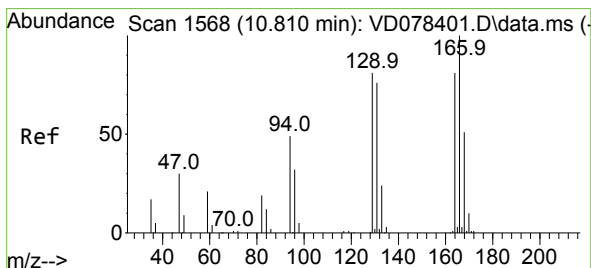
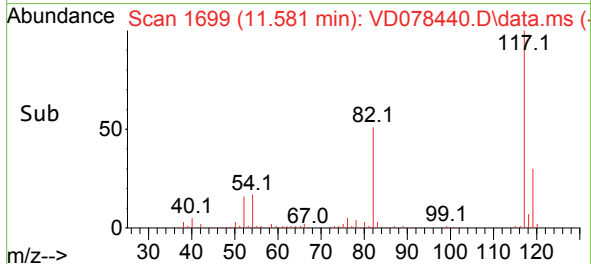
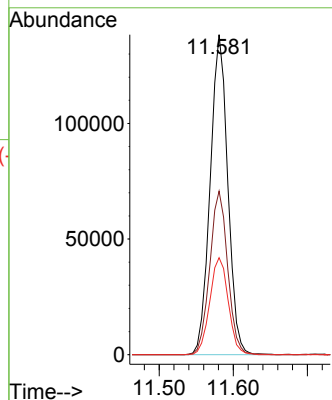
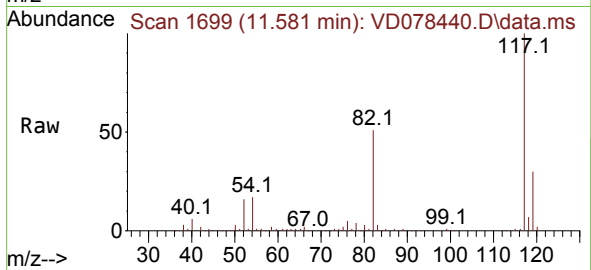




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 117
Delta R.T. -0.006 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

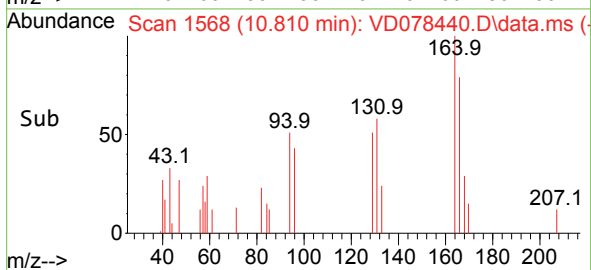
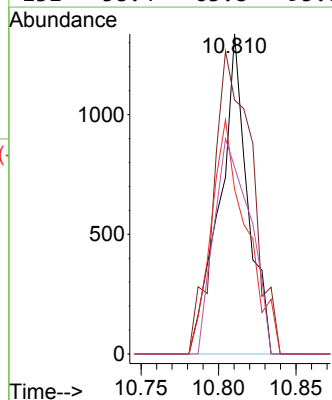
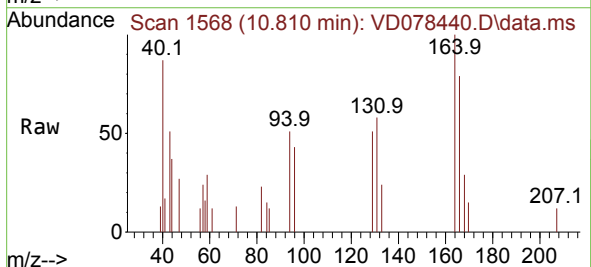
Instrument :
MSVOA_D
ClientSampleId :
30984

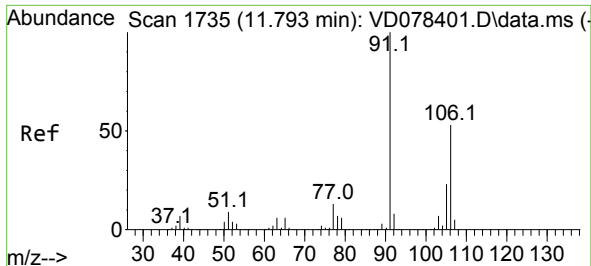
Tgt Ion:117 Resp: 227909
Ion Ratio Lower Upper
117 100
82 51.1 38.3 57.5
119 30.3 25.0 37.4



#64
Tetrachloroethene
Concen: 1.166 ug/l
RT: 10.810 min Scan# 1568
Delta R.T. 0.000 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Tgt Ion:164 Resp: 1678
Ion Ratio Lower Upper
164 100
166 79.4 99.2 148.8#
129 51.4 68.4 102.6#
131 58.4 63.8 95.8#

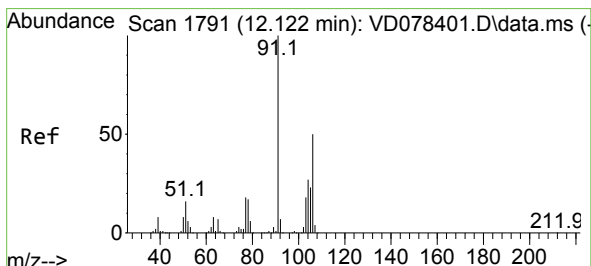
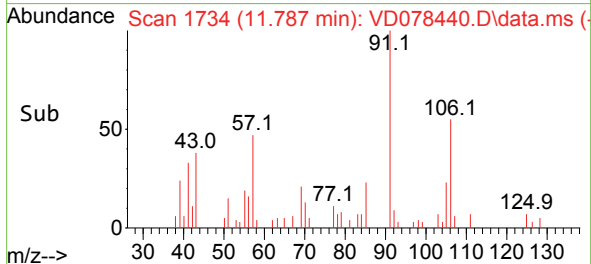
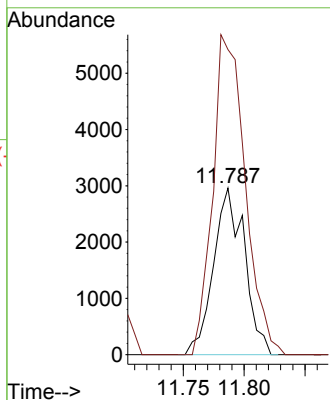
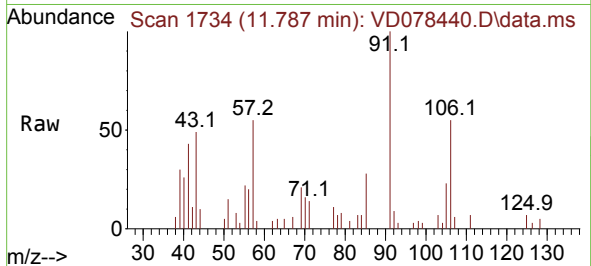




#68
m/p-Xylenes
Concen: 1.637 ug/l
RT: 11.787 min Scan# 1734
Delta R.T. -0.006 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

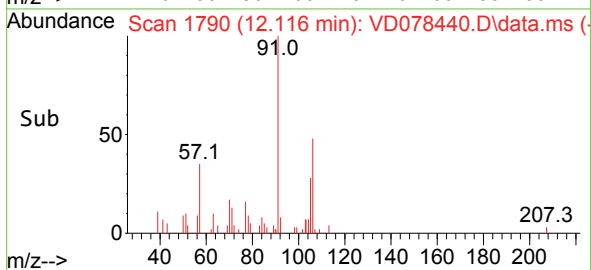
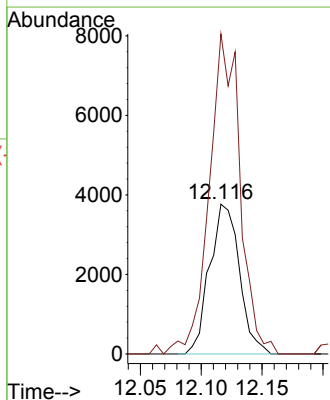
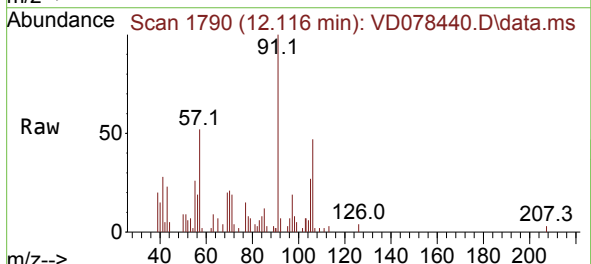
Instrument :
MSVOA_D
ClientSampleId :
30984

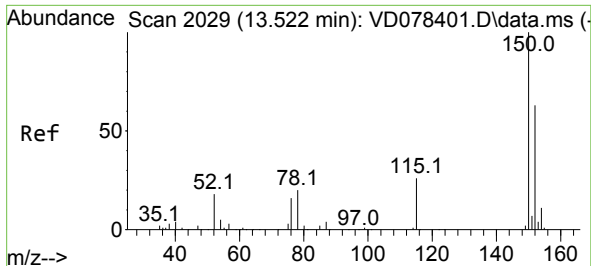
Tgt Ion:106 Resp: 5242
Ion Ratio Lower Upper
106 100
91 200.9 147.0 220.6



#69
o-Xylene
Concen: 2.197 ug/l
RT: 12.116 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Tgt Ion:106 Resp: 6421
Ion Ratio Lower Upper
106 100
91 221.8 97.9 293.6

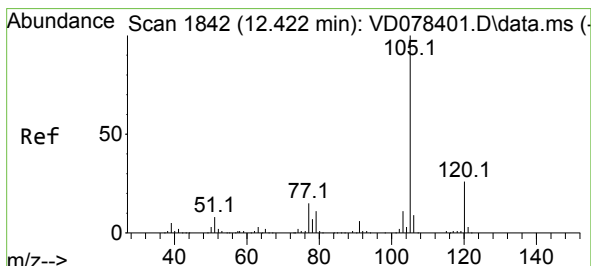
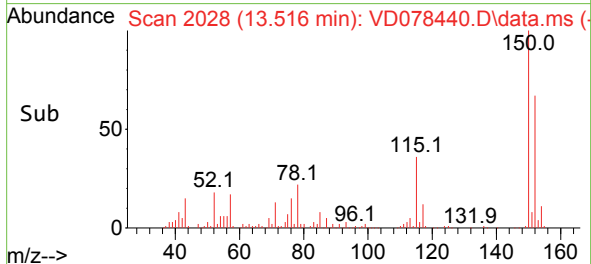
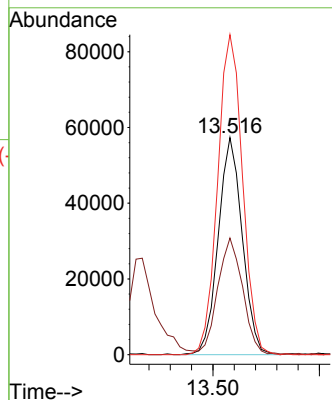
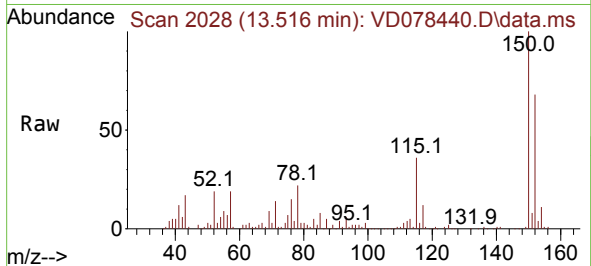




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.006 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

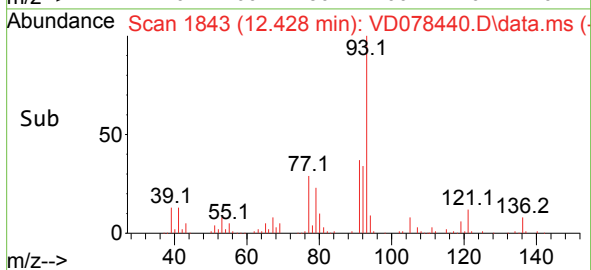
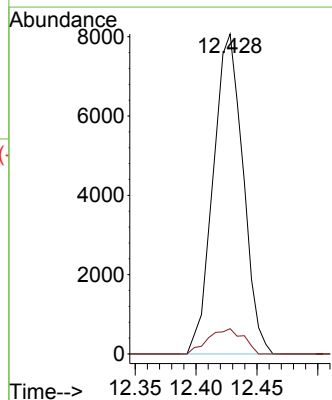
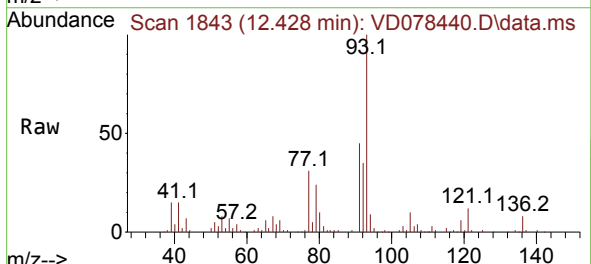
Instrument :
MSVOA_D
ClientSampleId :
30984

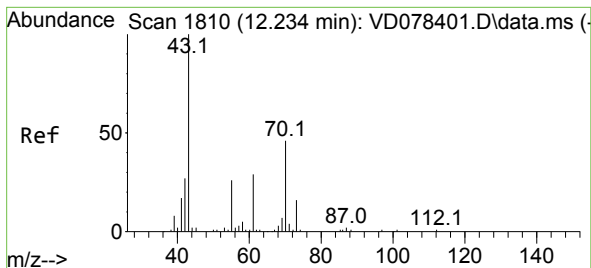
Tgt Ion:152 Resp: 89631
Ion Ratio Lower Upper
152 100
115 56.0 27.1 81.3
150 152.8 0.0 353.6



#73
Isopropylbenzene
Concen: 2.287 ug/l
RT: 12.428 min Scan# 1843
Delta R.T. 0.006 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Tgt Ion:105 Resp: 13767
Ion Ratio Lower Upper
105 100
120 9.2 14.3 42.9#





#74

N-amy1 acetate

Concen: 11.993 ug/l

RT: 12.210 min Scan# 1806

Delta R.T. -0.023 min

Lab File: VD078440.D

Acq: 15 Feb 2024 17:13

Instrument :

MSVOA_D

ClientSampleId :

30984

Tgt Ion: 43 Resp: 13656

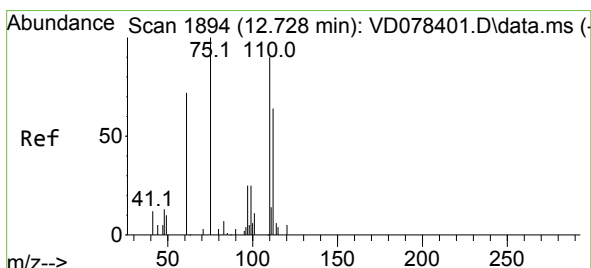
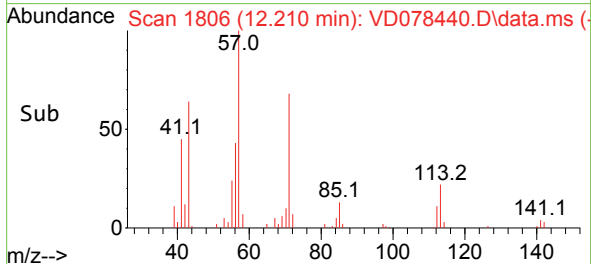
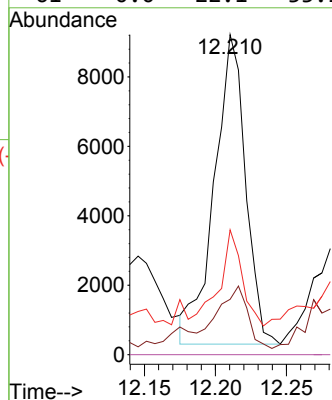
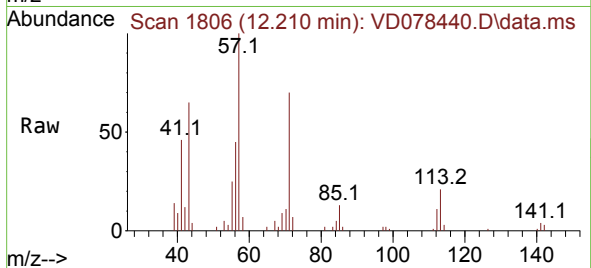
Ion Ratio Lower Upper

43 100

70 19.3 45.0 67.4#

55 21.9 23.8 35.6#

61 0.0 22.1 33.1#



#76

1,2,3-Trichloropropane

Concen: 58.445 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.153 min

Lab File: VD078440.D

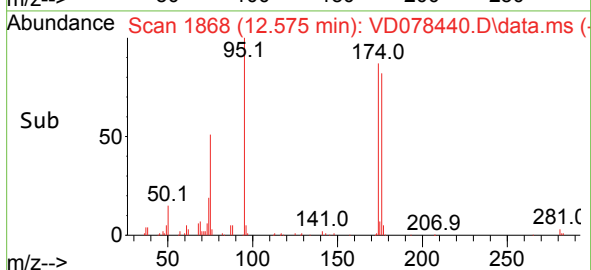
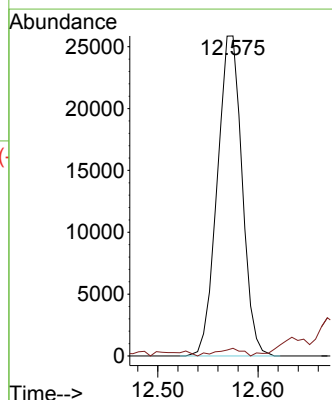
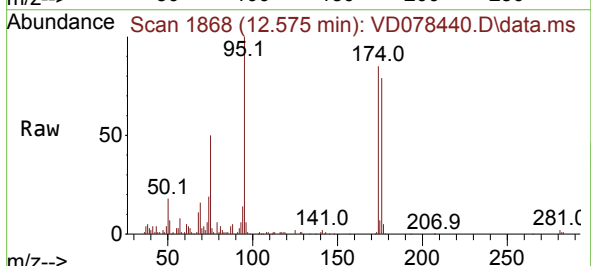
Acq: 15 Feb 2024 17:13

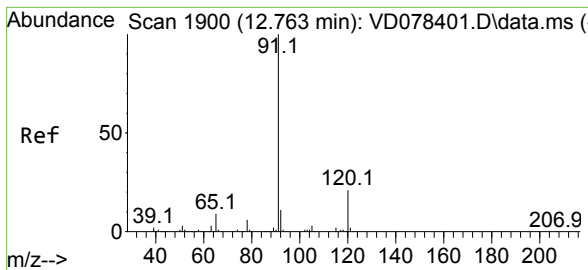
Tgt Ion: 75 Resp: 44473

Ion Ratio Lower Upper

75 100

77 2.4 0.0 0.0#

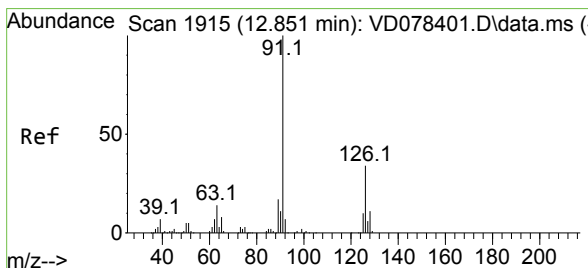
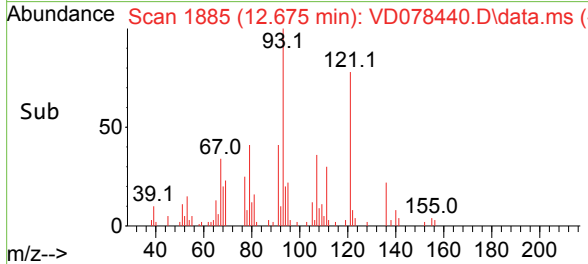
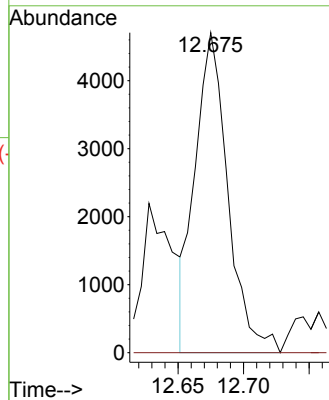
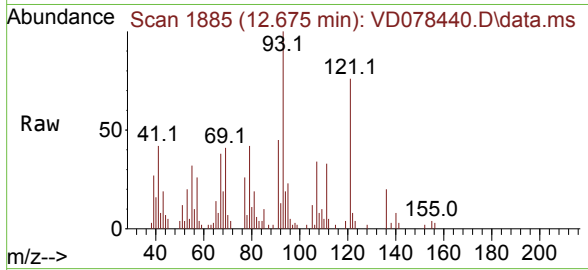




#78
n-propylbenzene
Concen: 1.090 ug/l
RT: 12.675 min Scan# 11
Delta R.T. -0.088 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

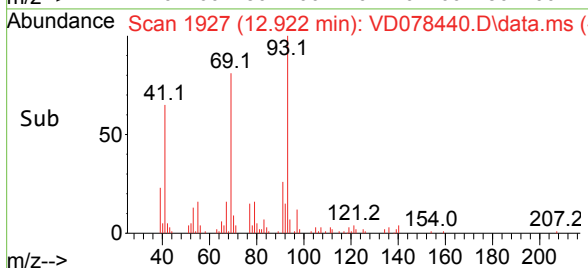
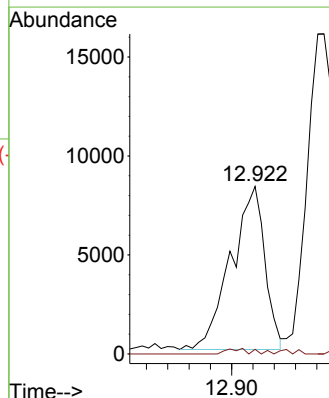
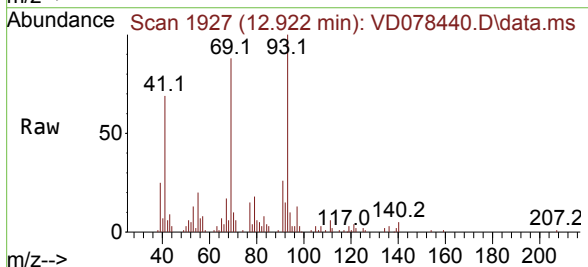
Instrument :
MSVOA_D
ClientSampleId :
30984

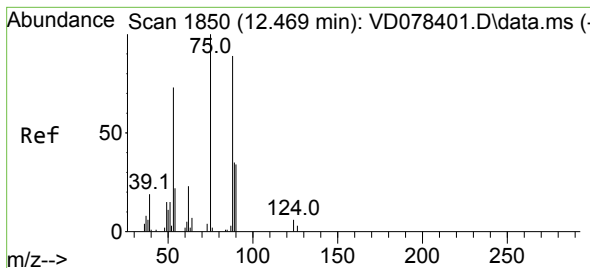
Tgt Ion: 91 Resp: 8174
Ion Ratio Lower Upper
91 100
120 0.0 12.4 37.2#



#79
2-Chlorotoluene
Concen: 4.522 ug/l
RT: 12.922 min Scan# 1927
Delta R.T. 0.071 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Tgt Ion: 91 Resp: 18164
Ion Ratio Lower Upper
91 100
126 1.6 19.4 58.1#

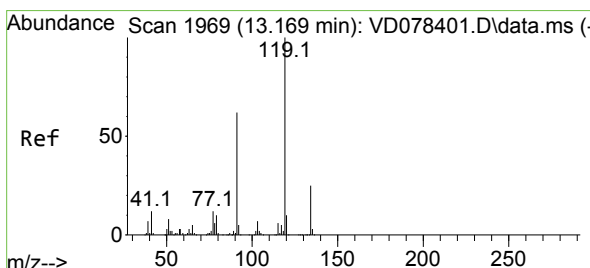
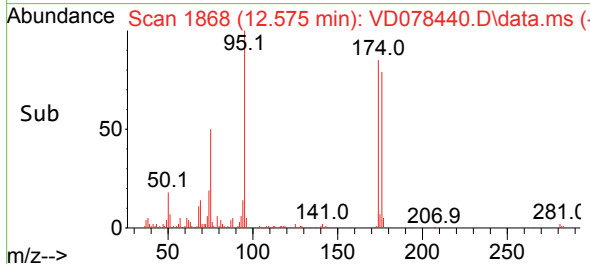
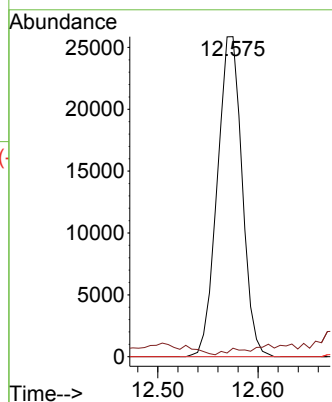
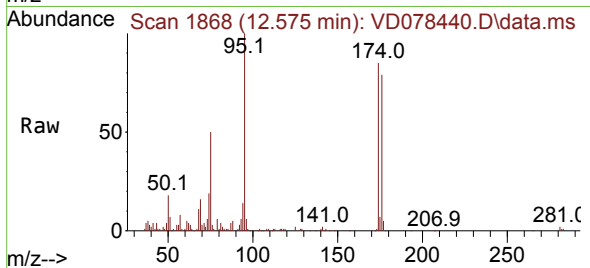




#81
trans-1,4-Dichloro-2-butene
Concen: 121.333 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

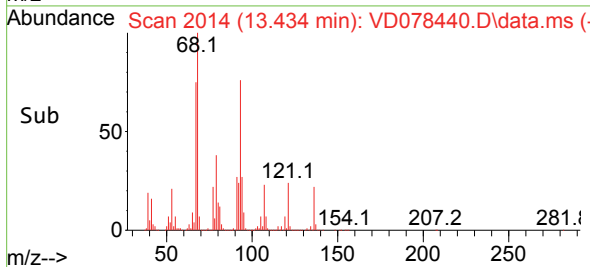
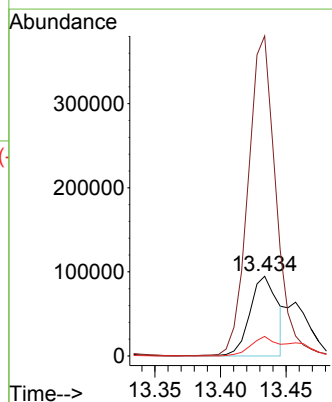
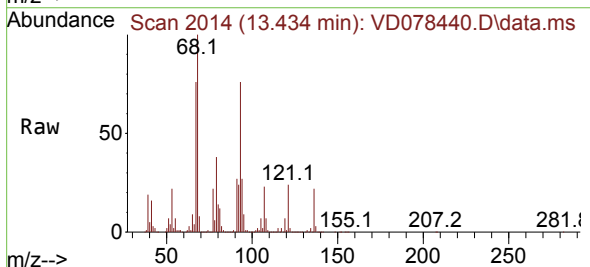
Instrument :
MSVOA_D
ClientSampleId :
30984

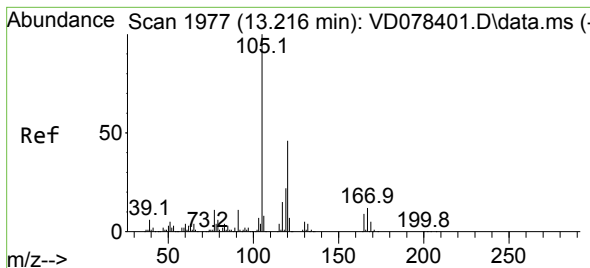
Tgt Ion: 75 Resp: 44473
Ion Ratio Lower Upper
75 100
53 1.6 63.0 94.4#
89 0.0 37.9 56.9#



#83
tert-Butylbenzene
Concen: 32.763 ug/l
RT: 13.434 min Scan# 2014
Delta R.T. 0.265 min
Lab File: VD078440.D
Acq: 15 Feb 2024 17:13

Tgt Ion: 119 Resp: 138088
Ion Ratio Lower Upper
119 100
91 380.6 29.3 87.8#
134 23.3 14.1 42.3





#84

1,2,4-Trimethylbenzene

Concen: 28.557 ug/l

RT: 13.434 min Scan# 2014

Delta R.T. 0.218 min

Lab File: VD078440.D

Acq: 15 Feb 2024 17:13

Instrument :

MSVOA_D

ClientSampleId :

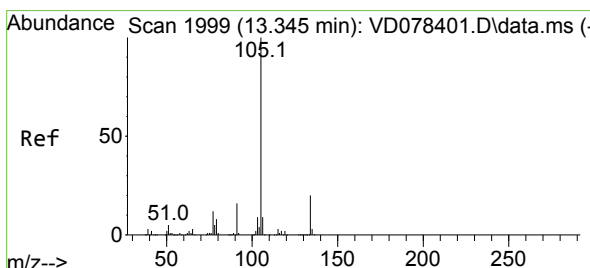
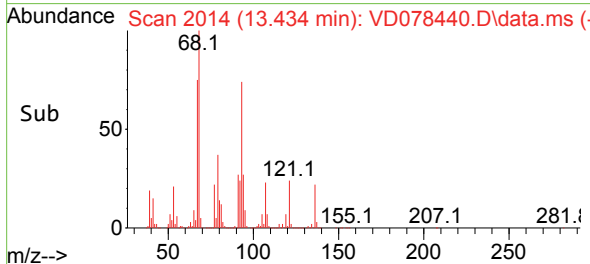
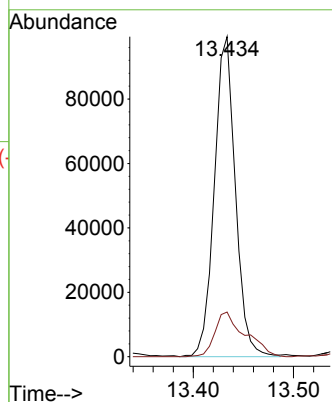
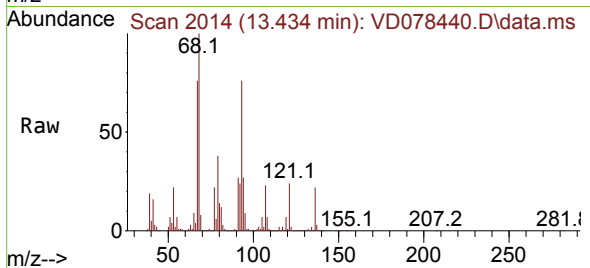
30984

Tgt Ion:105 Resp: 144845

Ion Ratio Lower Upper

105 100

120 20.0 24.3 72.9#



#85

sec-Butylbenzene

Concen: 22.254 ug/l

RT: 13.434 min Scan# 2014

Delta R.T. 0.088 min

Lab File: VD078440.D

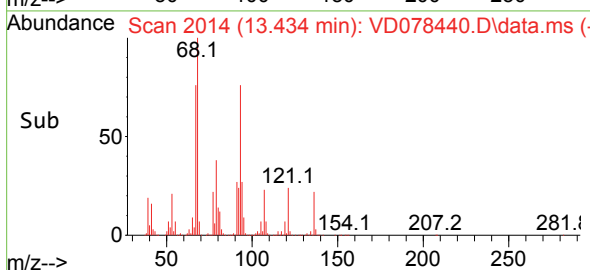
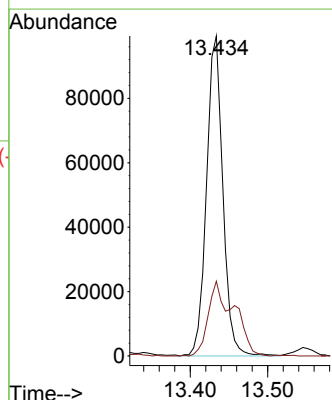
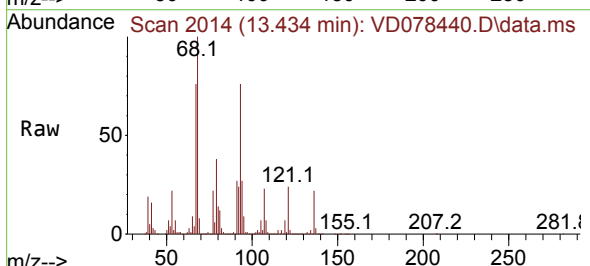
Acq: 15 Feb 2024 17:13

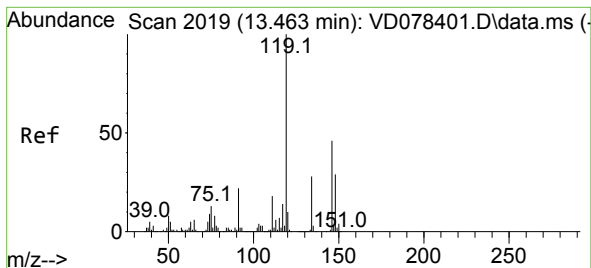
Tgt Ion:105 Resp: 145462

Ion Ratio Lower Upper

105 100

134 36.9 10.9 32.9#





#86

p-Isopropyltoluene

Concen: 39.454 ug/l

RT: 13.434 min Scan# 2019

Delta R.T. -0.029 min

Lab File: VD078440.D

Acq: 15 Feb 2024 17:13

Instrument :

MSVOA_D

ClientSampleId :

30984

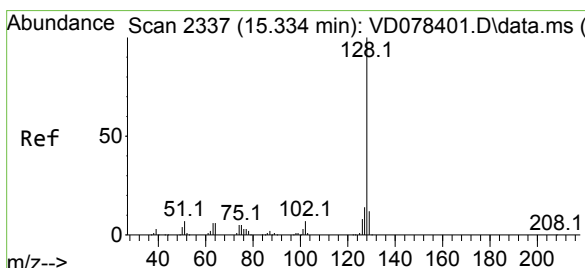
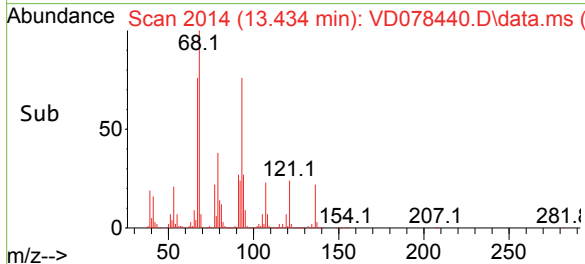
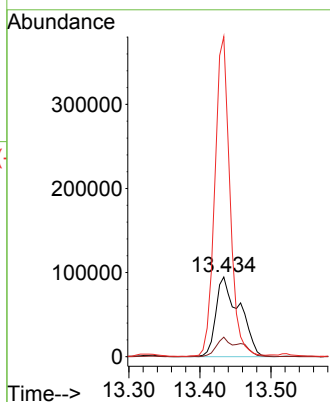
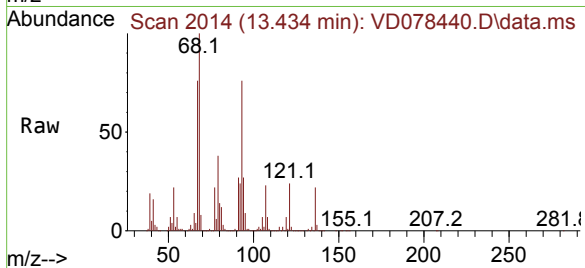
Tgt Ion:119 Resp: 219657

Ion Ratio Lower Upper

119 100

134 24.5 14.2 42.6

91 255.9 10.5 31.5#



#95

Naphthalene

Concen: 1.382 ug/l

RT: 15.316 min Scan# 2334

Delta R.T. -0.018 min

Lab File: VD078440.D

Acq: 15 Feb 2024 17:13

Tgt Ion:128 Resp: 3819

Ion Ratio Lower Upper

128 100

127 703.9 10.5 15.7#

129 7.1 8.7 13.1#

