

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD072723\
 Data File : VD076834.D
 Acq On : 27 Jul 2023 15:13
 Operator : KP/SY
 Sample : 03769-07
 Misc : 5.03G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-P39C

Quant Time: Jul 27 15:25:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 17 08:07:52 2023
 Response via : Initial Calibration

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

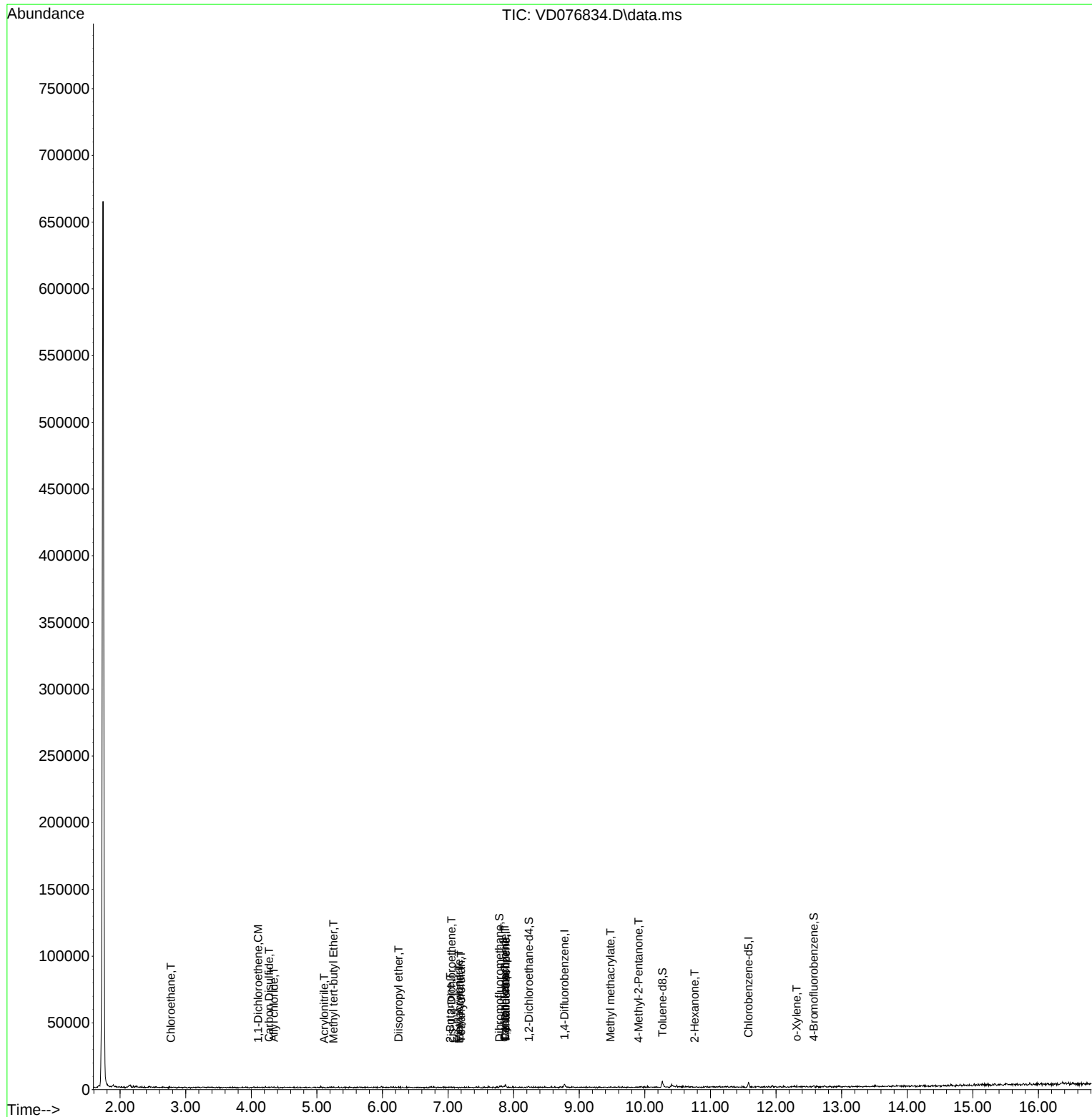
Internal Standards						
1) Pentafluorobenzene	7.881	168	719	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.775	114	2738	50.000	ug/l	# 0.00
63) Chlorobenzene-d5	11.581	117	1763	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	0.000	152	0	0.000	ug/l	-13.52
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	423	59.066	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	118.140%
35) Dibromofluoromethane	7.781	113	1015	58.992	ug/l	-0.02
Spiked Amount	50.000	Range	54 - 147	Recovery	=	117.980%
50) Toluene-d8	10.269	98	3227	52.428	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	104.860%
62) 4-Bromofluorobenzene	12.575	95	261	13.108	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	26.220%#
Target Compounds						
					Qvalue	
6) Chloroethane	2.775	64	55	5.634	ug/l #	43
12) 1,1-Dichloroethene	4.105	96	72	10.134	ug/l #	1
14) Allyl chloride	4.346	41	68	7.286	ug/l #	19
15) Acrylonitrile	5.111	53	102	52.431	ug/l #	18
17) Carbon Disulfide	4.269	76	67	4.038	ug/l #	76
19) Methyl tert-butyl Ether	5.252	73	55	2.887	ug/l #	55
22) Diisopropyl ether	6.246	45	60	2.715	ug/l #	37
25) 2-Butanone	7.034	43	70	30.581	ug/l #	37
27) cis-1,2-Dichloroethene	7.052	96	97	9.528	ug/l #	1
29) Tetrahydrofuran	7.199	42	56	41.407	ug/l #	23
31) Cyclohexane	7.869	56	64	6.072	ug/l #	8
36) 1,1-Dichloropropene	7.875	75	58	2.580	ug/l #	39
37) Ethyl Acetate	7.175	43	65	6.465	ug/l #	62
38) Carbon Tetrachloride	7.863	117	122	5.667	ug/l #	11
41) Methacrylonitrile	7.163	41	54	8.795	ug/l #	1
48) Methyl methacrylate	9.475	41	75	8.398	ug/l #	1
51) 4-Methyl-2-Pentanone	9.904	43	60	5.743	ug/l #	28
59) 2-Hexanone	10.757	43	75	10.060	ug/l #	16
69) o-Xylene	12.316	106	57	2.465	ug/l #	1

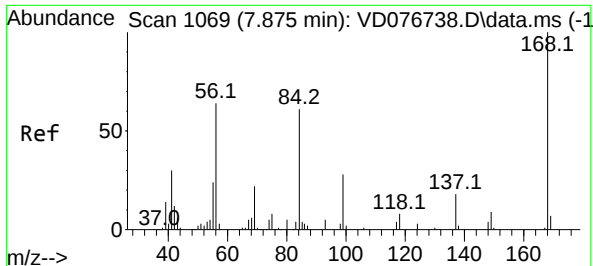
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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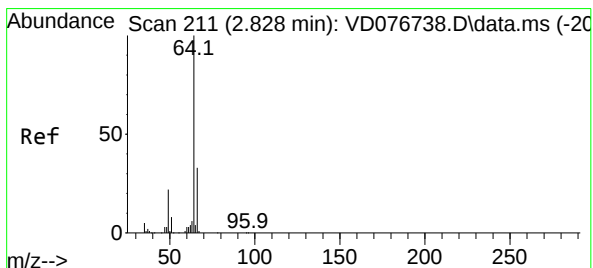
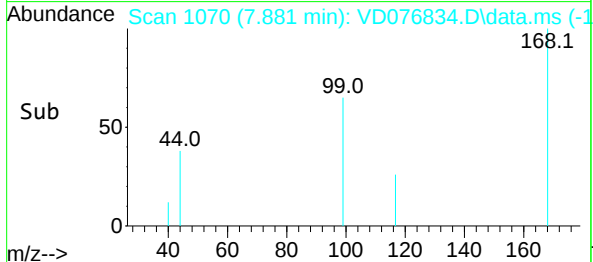
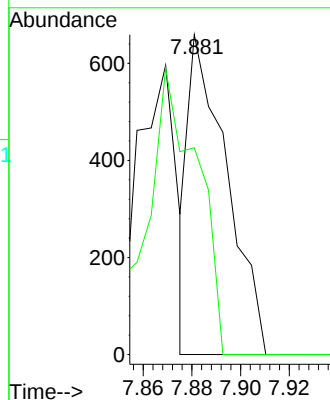
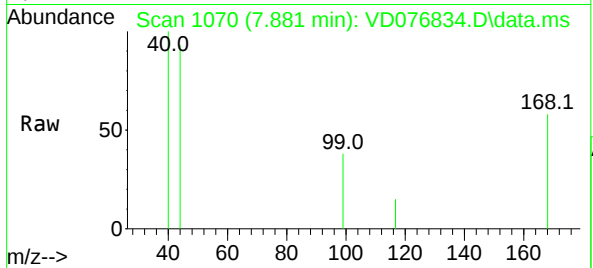




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

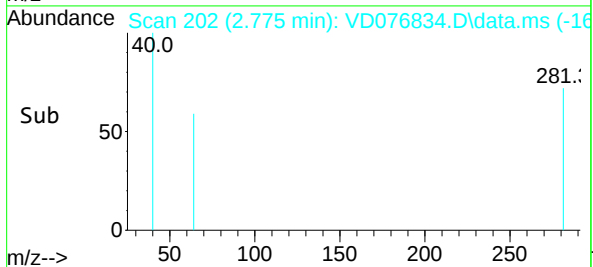
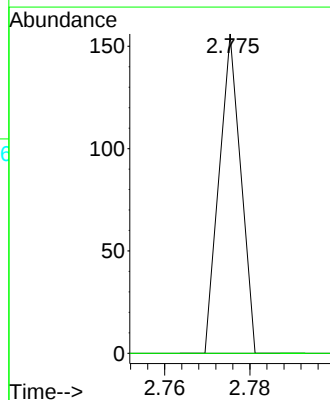
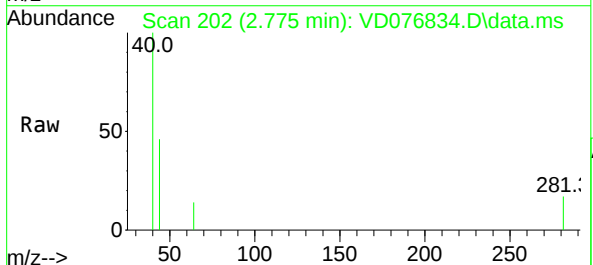
Instrument :
MSVOA_D
ClientSampleId :
B-P39C

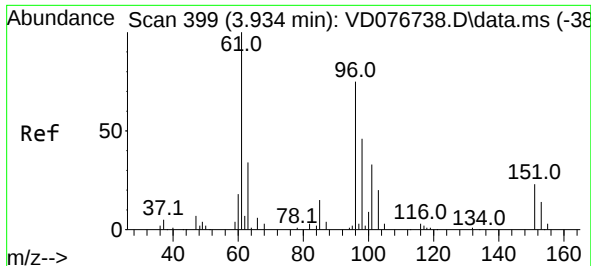
Tgt Ion:168 Resp: 719
Ion Ratio Lower Upper
168 100
99 64.6 36.7 55.1#



#6
Chloroethane
Concen: 5.634 ug/l
RT: 2.775 min Scan# 202
Delta R.T. -0.053 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

Tgt Ion: 64 Resp: 55
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#





#12

1,1-Dichloroethene

Concen: 10.134 ug/l

RT: 4.105 min Scan# 41

Delta R.T. 0.171 min

Lab File: VD076834.D

Acq: 27 Jul 2023 15:13

Instrument :

MSVOA_D

ClientSampleId :

B-P39C

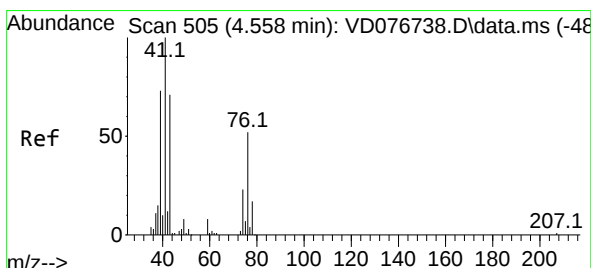
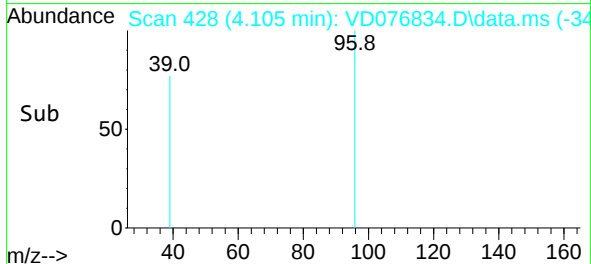
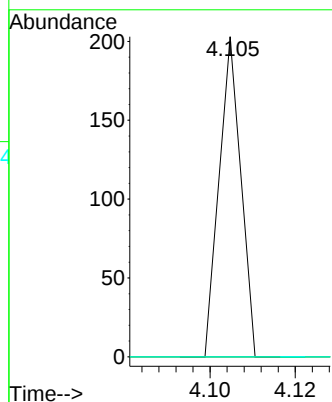
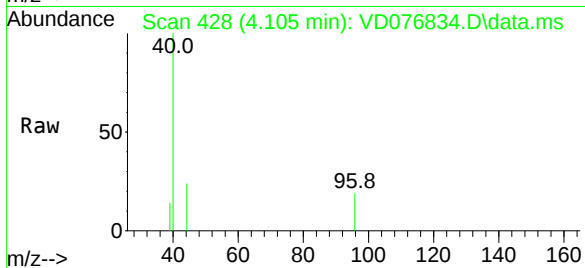
Tgt Ion: 96 Resp: 72

Ion Ratio Lower Upper

96 100

61 0.0 100.6 150.8#

98 0.0 50.2 75.2#



#14

Allyl chloride

Concen: 7.286 ug/l

RT: 4.346 min Scan# 469

Delta R.T. -0.212 min

Lab File: VD076834.D

Acq: 27 Jul 2023 15:13

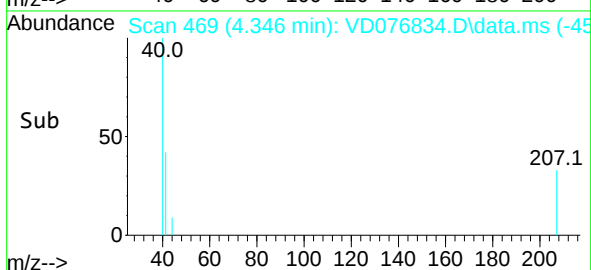
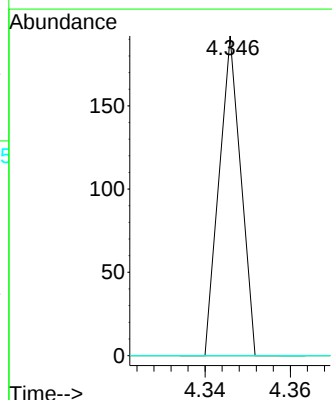
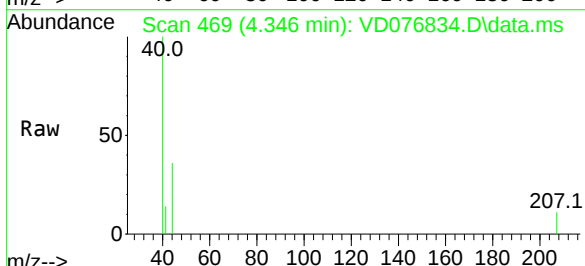
Tgt Ion: 41 Resp: 68

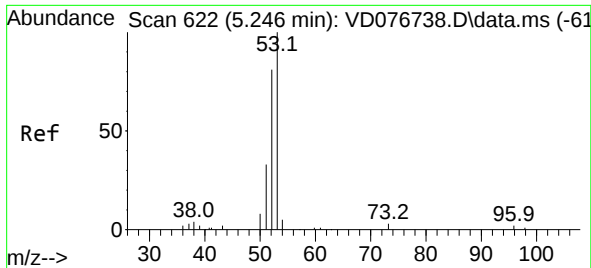
Ion Ratio Lower Upper

41 100

39 0.0 53.8 80.6#

76 0.0 45.8 68.8#

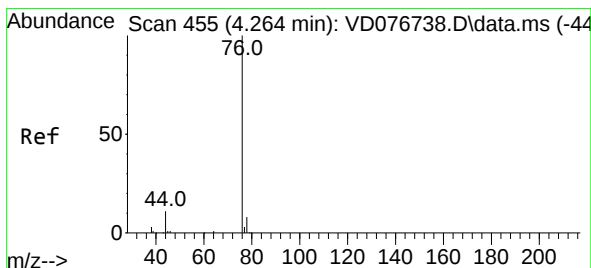
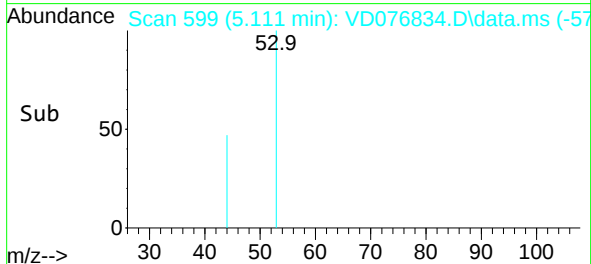
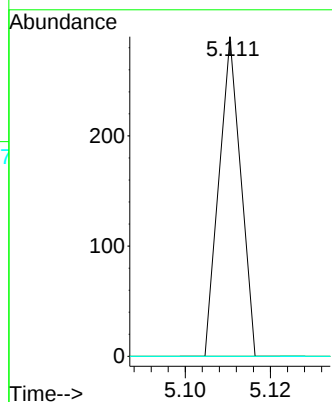
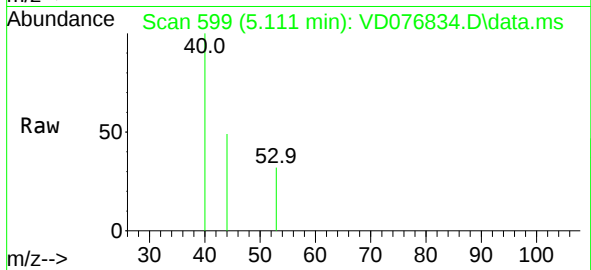




#15
Acrylonitrile
Concen: 52.431 ug/l
RT: 5.111 min Scan# 511
Delta R.T. -0.136 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

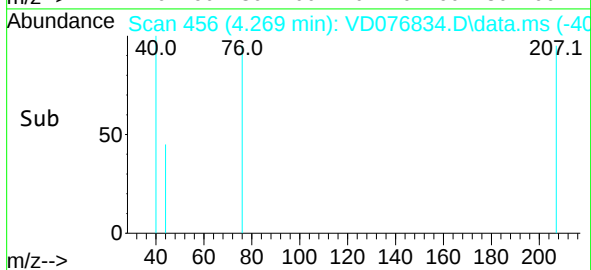
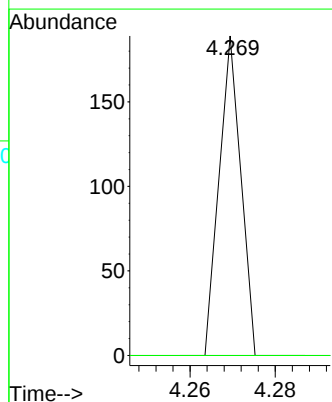
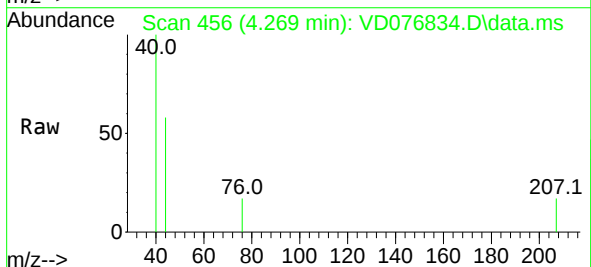
Instrument :
MSVOA_D
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B-P39C

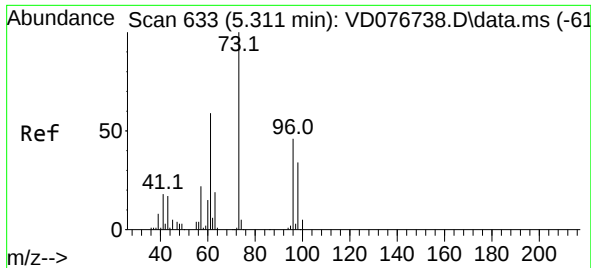
Tgt Ion: 53 Resp: 102
Ion Ratio Lower Upper
53 100
52 0.0 65.0 97.4#
51 0.0 28.3 42.5#



#17
Carbon Disulfide
Concen: 4.038 ug/l
RT: 4.269 min Scan# 456
Delta R.T. 0.005 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

Tgt Ion: 76 Resp: 67
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#

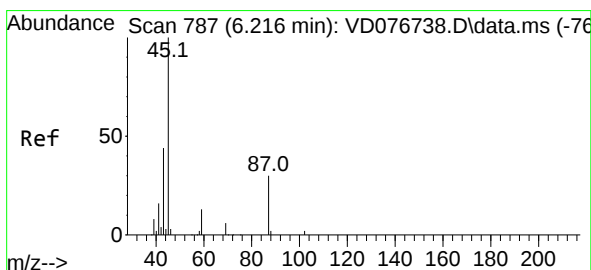
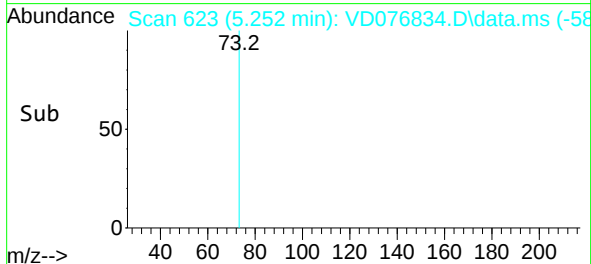
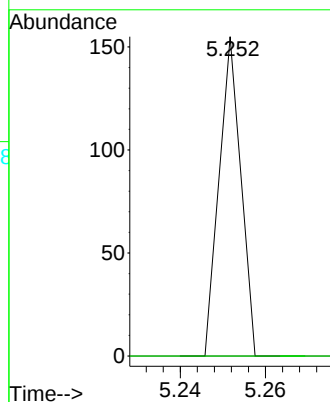
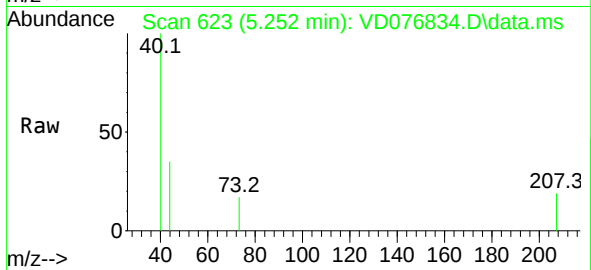




#19
Methyl tert-butyl Ether
Concen: 2.887 ug/l
RT: 5.252 min Scan# 61
Delta R.T. -0.059 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

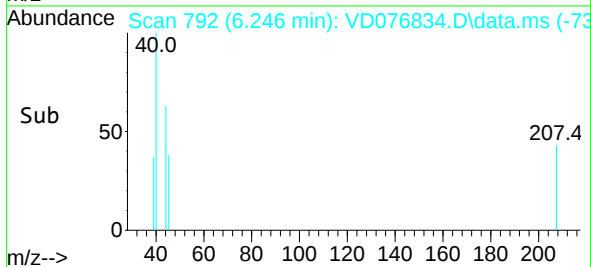
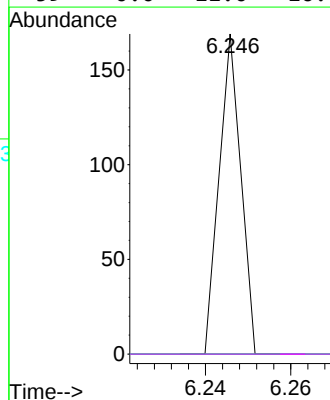
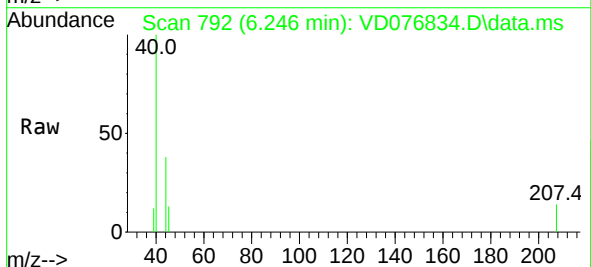
Instrument :
MSVOA_D
ClientSampleId :
B-P39C

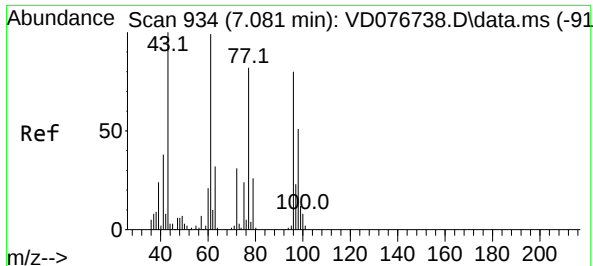
Tgt Ion: 73 Resp: 55
Ion Ratio Lower Upper
73 100
57 0.0 16.6 25.0#



#22
Diisopropyl ether
Concen: 2.715 ug/l
RT: 6.246 min Scan# 792
Delta R.T. 0.030 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

Tgt Ion: 45 Resp: 60
Ion Ratio Lower Upper
45 100
43 0.0 40.0 60.0#
87 0.0 28.2 42.4#
59 0.0 11.0 16.4#

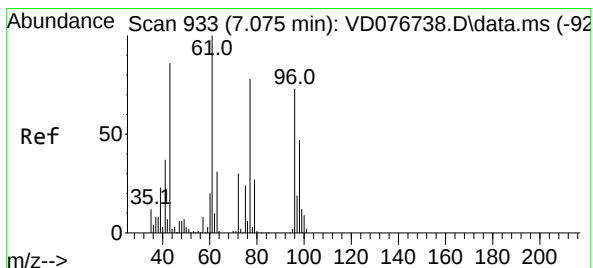
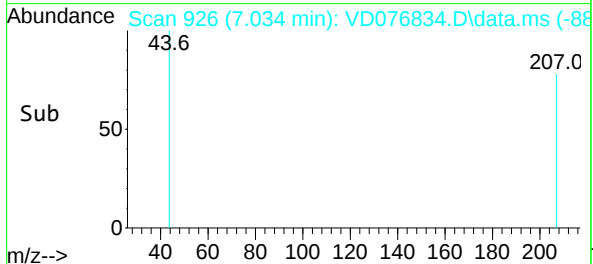
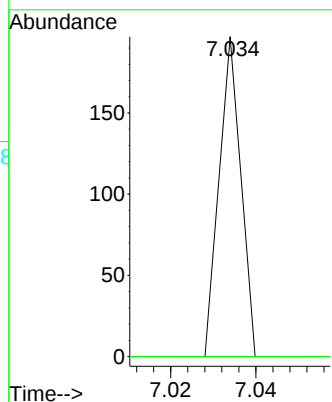
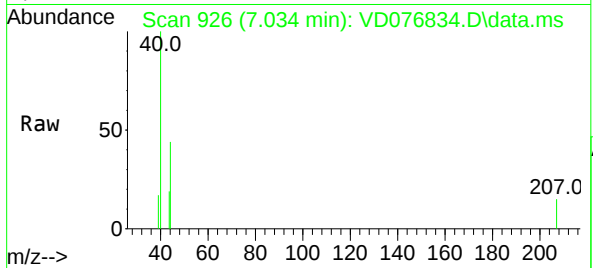




#25
2-Butanone
Concen: 30.581 ug/l
RT: 7.034 min Scan# 91
Delta R.T. -0.047 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

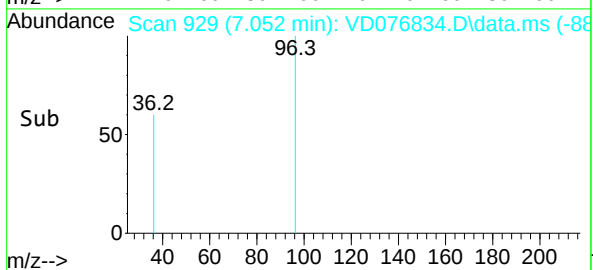
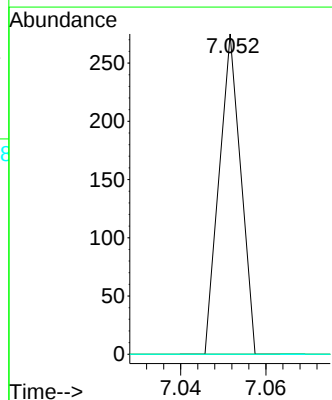
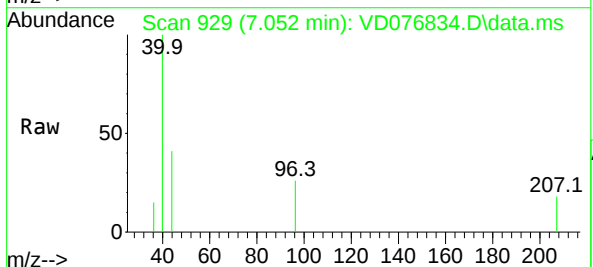
Instrument :
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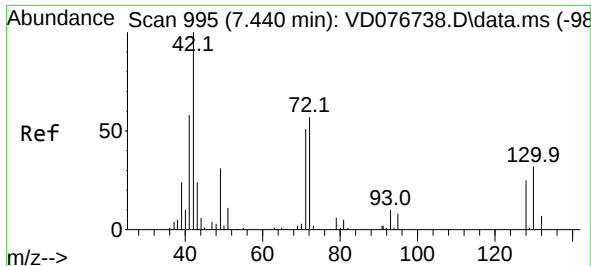
Tgt Ion: 43 Resp: 70
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



#27
cis-1,2-Dichloroethene
Concen: 9.528 ug/l
RT: 7.052 min Scan# 929
Delta R.T. -0.023 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

Tgt Ion: 96 Resp: 97
Ion Ratio Lower Upper
96 100
61 0.0 0.0 239.2
98 0.0 0.0 128.6





#29

Tetrahydrofuran

Concen: 41.407 ug/l

RT: 7.199 min Scan# 91

Delta R.T. -0.241 min

Lab File: VD076834.D

Acq: 27 Jul 2023 15:13

Instrument :

MSVOA_D

ClientSampleId :

B-P39C

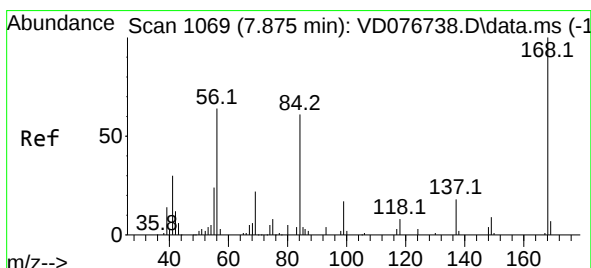
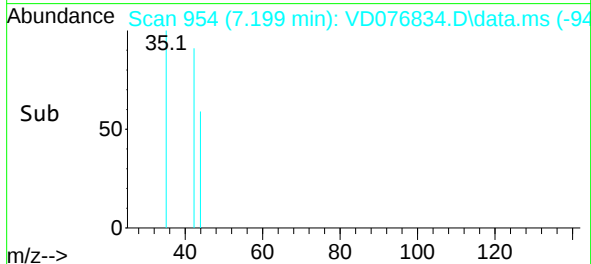
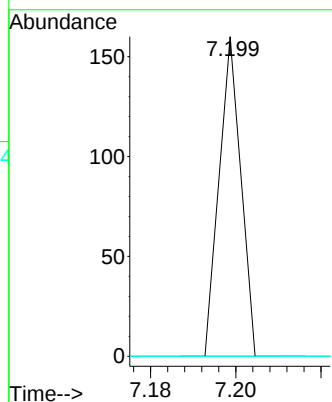
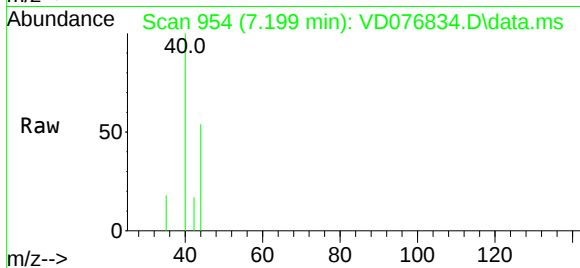
Tgt Ion: 42 Resp: 56

Ion Ratio Lower Upper

42 100

72 0.0 46.5 69.7#

71 0.0 44.5 66.7#



#31

Cyclohexane

Concen: 6.072 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VD076834.D

Acq: 27 Jul 2023 15:13

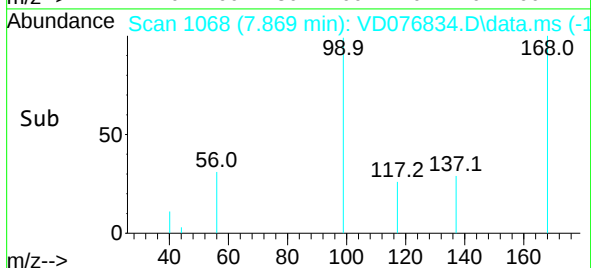
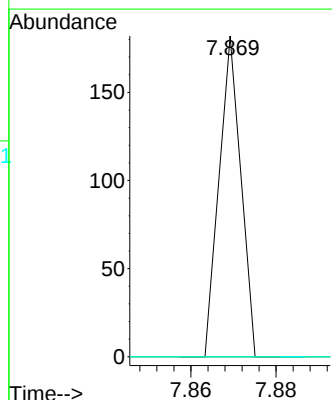
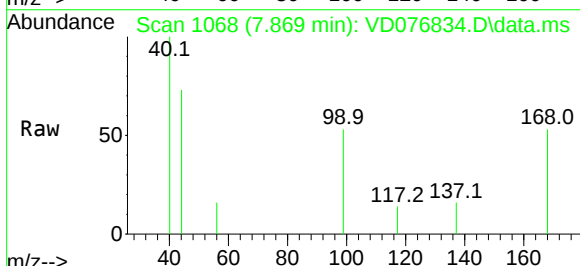
Tgt Ion: 56 Resp: 64

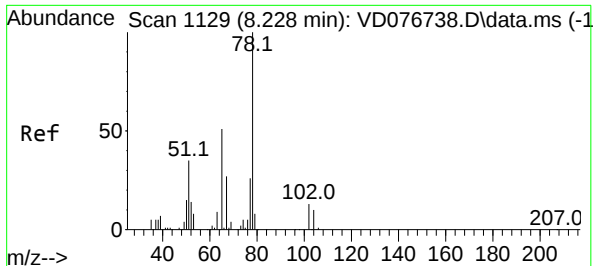
Ion Ratio Lower Upper

56 100

69 0.0 28.6 43.0#

84 0.0 84.8 127.2#





#33

1,2-Dichloroethane-d4

Concen: 59.066 ug/l

RT: 8.234 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VD076834.D

Acq: 27 Jul 2023 15:13

Instrument :

MSVOA_D

ClientSampleId :

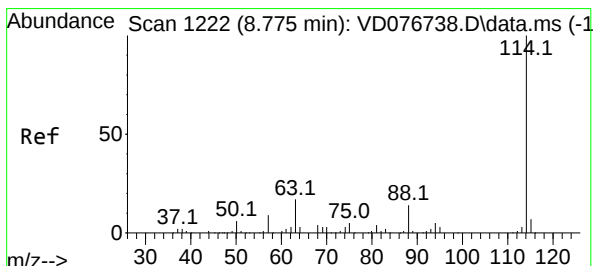
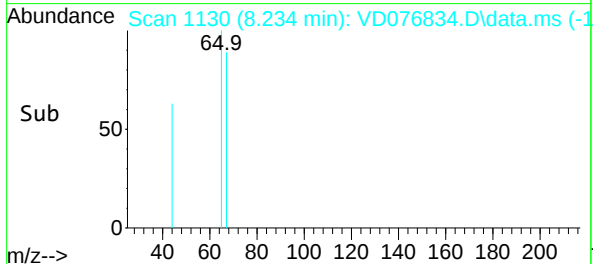
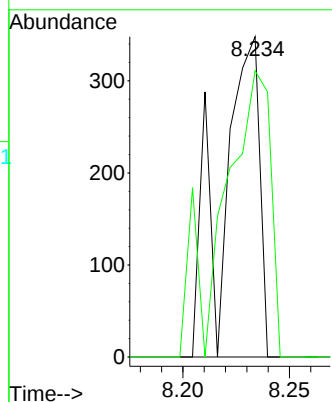
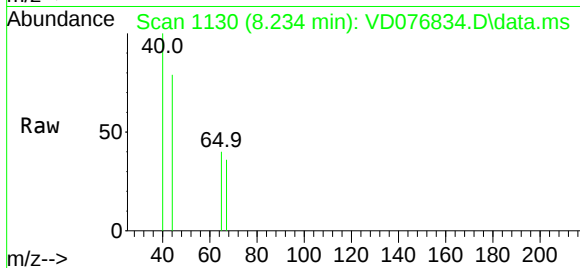
B-P39C

Tgt Ion: 65 Resp: 423

Ion Ratio Lower Upper

65 100

67 113.7 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD076834.D

Acq: 27 Jul 2023 15:13

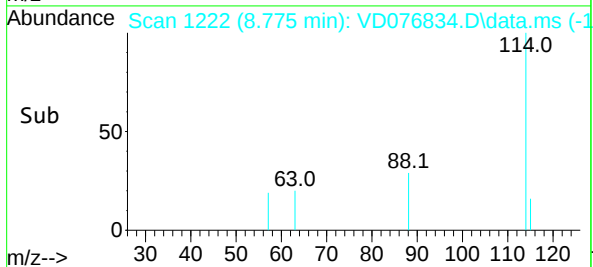
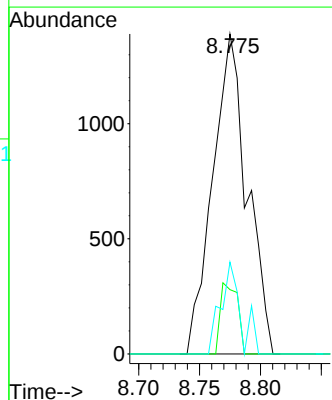
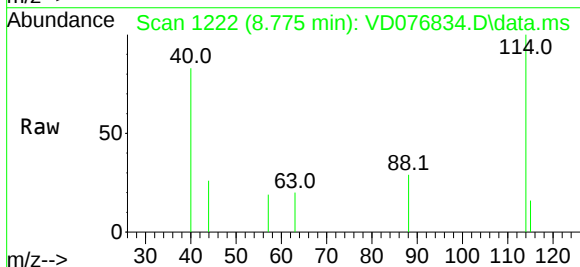
Tgt Ion: 114 Resp: 2738

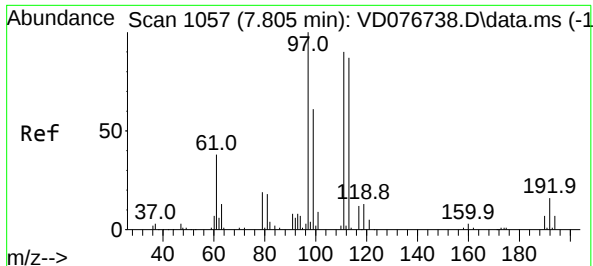
Ion Ratio Lower Upper

114 100

63 20.1 0.0 33.4

88 28.7 0.0 26.2#





#35

Dibromofluoromethane

Concen: 58.992 ug/l

RT: 7.781 min Scan# 1053

Delta R.T. -0.024 min

Lab File: VD076834.D

Acq: 27 Jul 2023 15:13

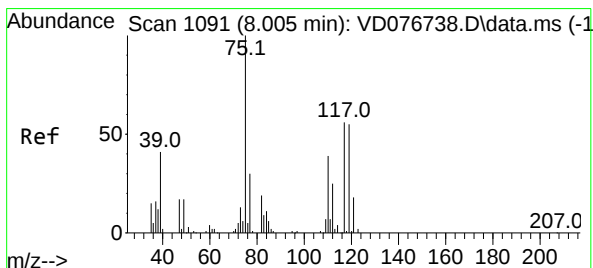
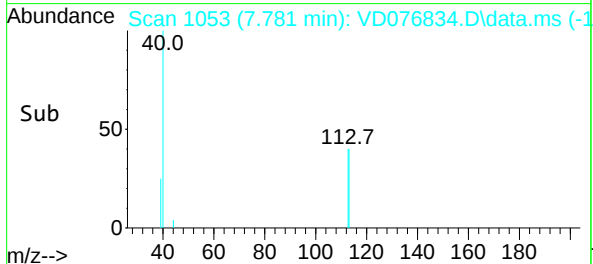
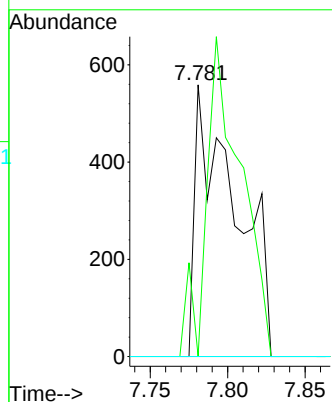
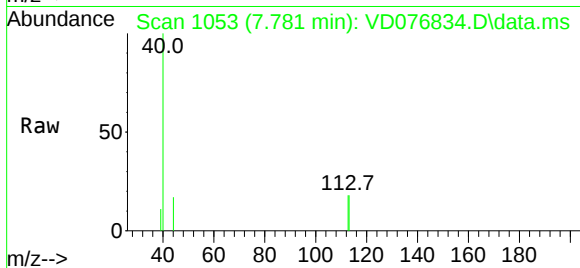
Instrument :

MSVOA_D

ClientSampleId :

B-P39C

Tgt Ion:113	Resp:	1015
Ion	Ratio	Lower Upper
113	100	
111	101.2	84.7 127.1
192	0.0	16.8 25.2#



#36

1,1-Dichloropropene

Concen: 2.580 ug/l

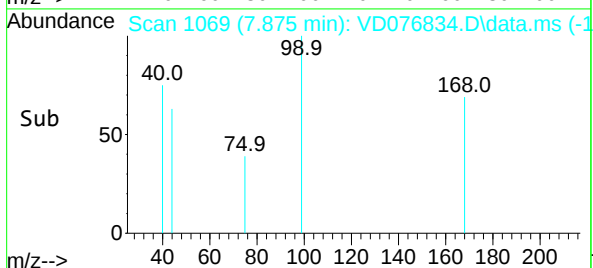
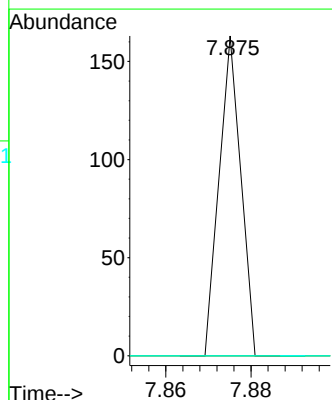
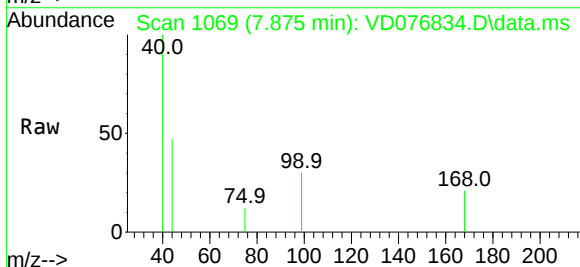
RT: 7.875 min Scan# 1069

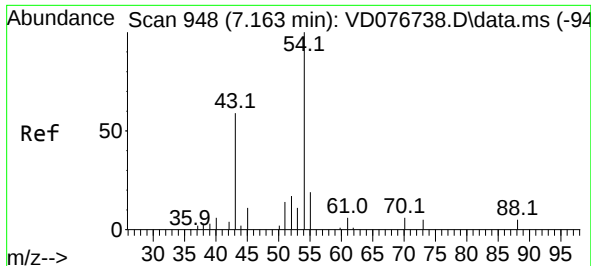
Delta R.T. -0.130 min

Lab File: VD076834.D

Acq: 27 Jul 2023 15:13

Tgt Ion: 75	Resp:	58
Ion	Ratio	Lower Upper
75	100	
110	0.0	19.9 59.6#
77	0.0	24.7 37.1#





#37

Ethyl Acetate

Concen: 6.465 ug/l

RT: 7.175 min Scan# 91

Delta R.T. 0.012 min

Lab File: VD076834.D

Acq: 27 Jul 2023 15:13

Instrument :

MSVOA_D

ClientSampleId :

B-P39C

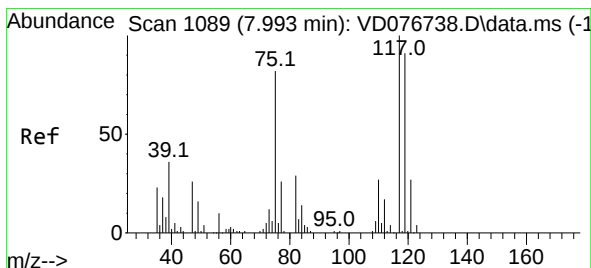
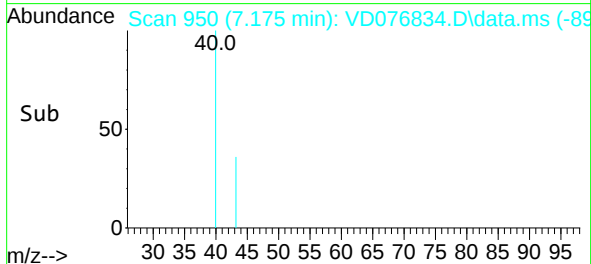
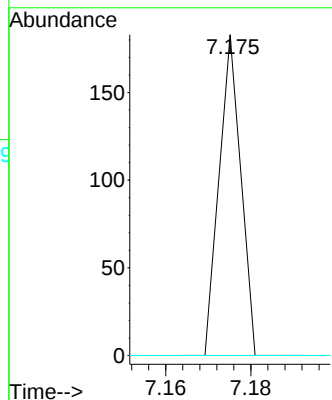
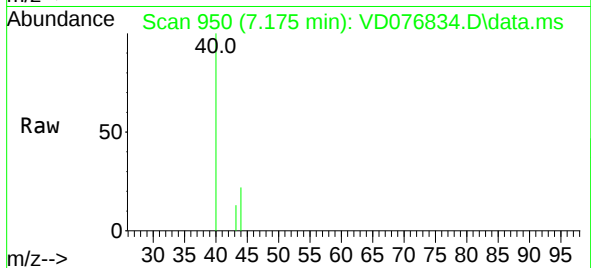
Tgt Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

61 0.0 14.9 22.3#

70 0.0 10.0 15.0#



#38

Carbon Tetrachloride

Concen: 5.667 ug/l

RT: 7.863 min Scan# 1067

Delta R.T. -0.130 min

Lab File: VD076834.D

Acq: 27 Jul 2023 15:13

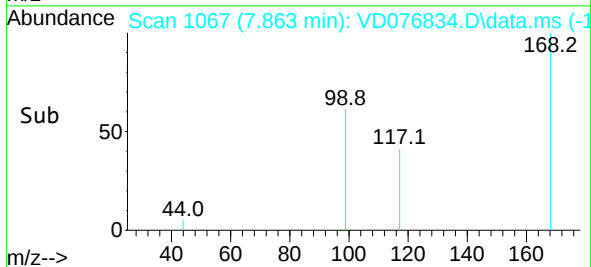
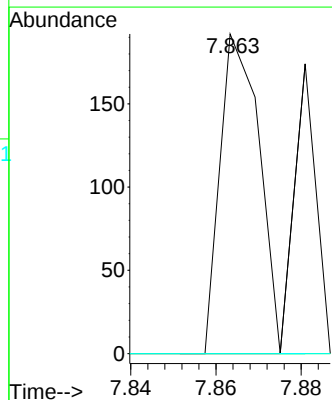
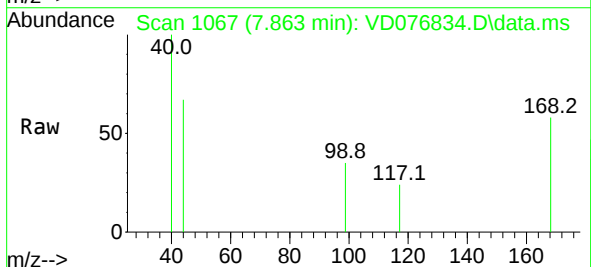
Tgt Ion: 117 Resp: 122

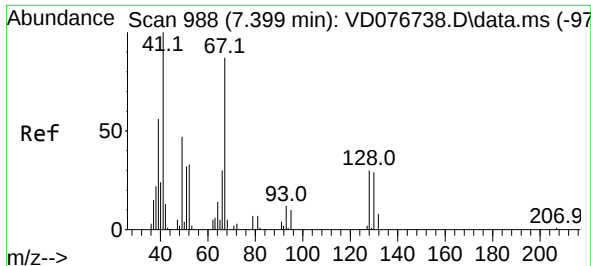
Ion Ratio Lower Upper

117 100

119 0.0 78.0 117.0#

121 0.0 24.2 36.2#

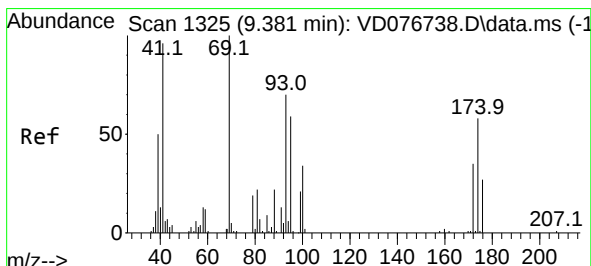
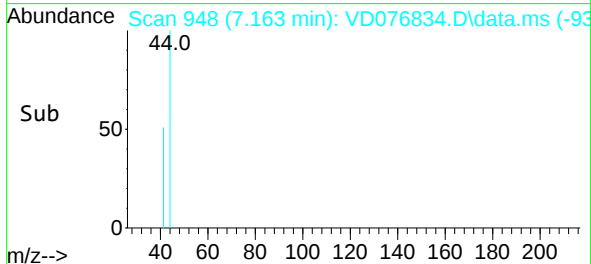
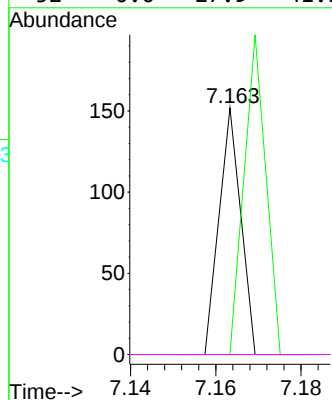
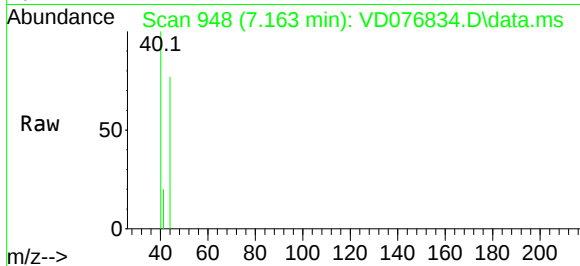




#41
Methacrylonitrile
Concen: 8.795 ug/l
RT: 7.163 min Scan# 948
Delta R.T. -0.236 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

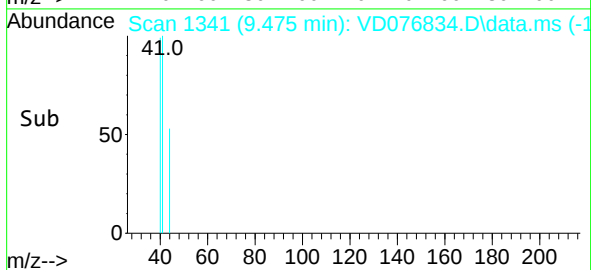
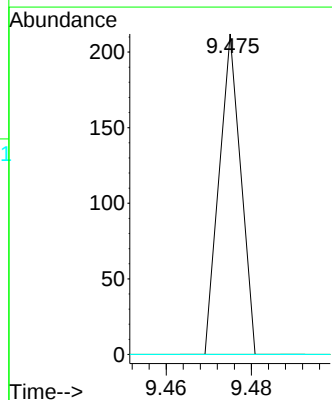
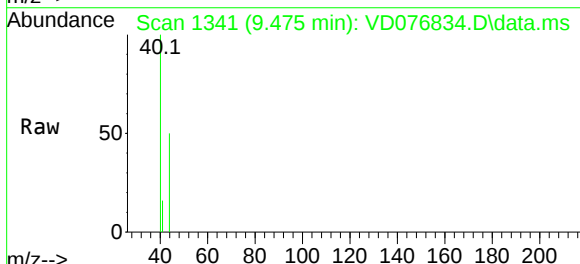
Instrument :
MSVOA_D
ClientSampleId :
B-P39C

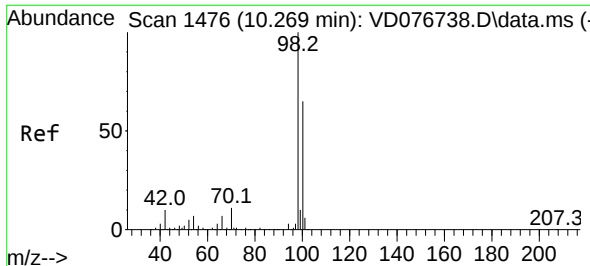
Tgt Ion:	41	Resp:	54
Ion	Ratio	Lower	Upper
41	100		
39	127.8	34.0	51.0#
67	0.0	77.0	115.4#
52	0.0	27.9	41.9#



#48
Methyl methacrylate
Concen: 8.398 ug/l
RT: 9.475 min Scan# 1341
Delta R.T. 0.094 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

Tgt Ion:	41	Resp:	75
Ion	Ratio	Lower	Upper
41	100		
69	0.0	102.2	153.2#
39	0.0	41.4	62.2#

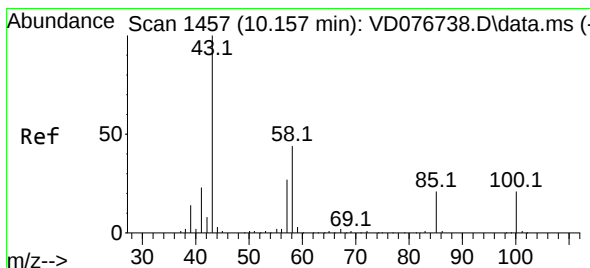
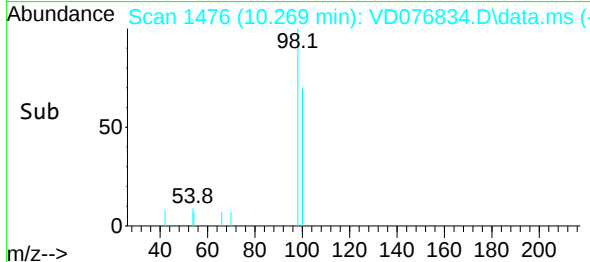
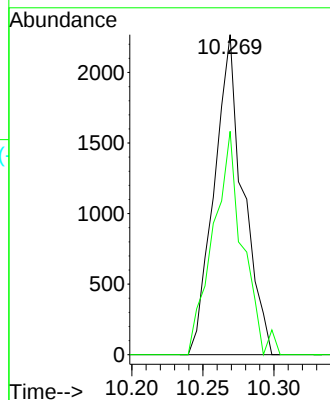
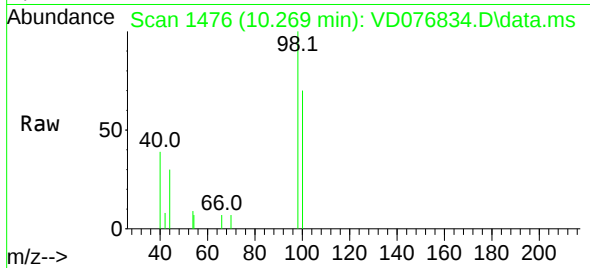




#50
Toluene-d8
Concen: 52.428 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

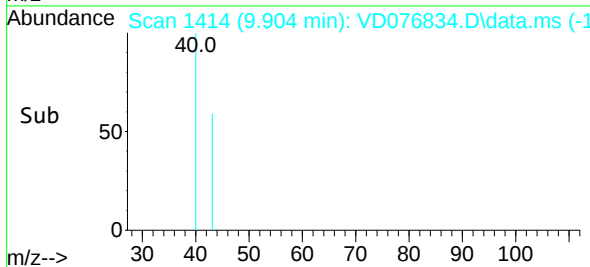
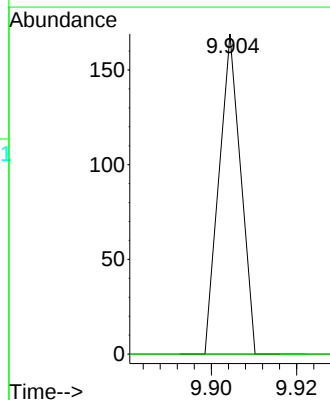
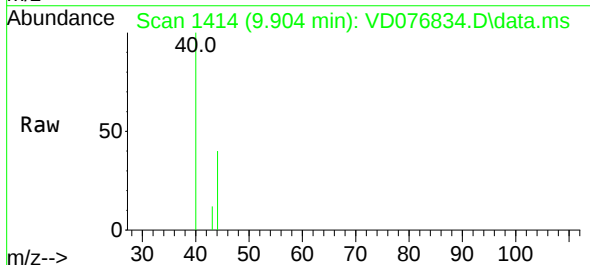
Instrument :
MSVOA_D
ClientSampleId :
B-P39C

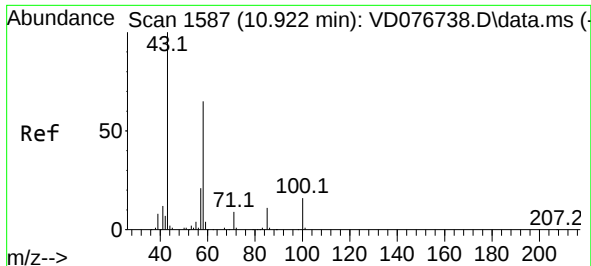
Tgt Ion: 98 Resp: 3227
Ion Ratio Lower Upper
98 100
100 71.1 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 5.743 ug/l
RT: 9.904 min Scan# 1414
Delta R.T. -0.253 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 0.0 38.9 58.3#

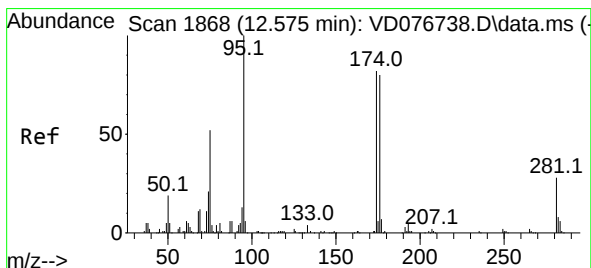
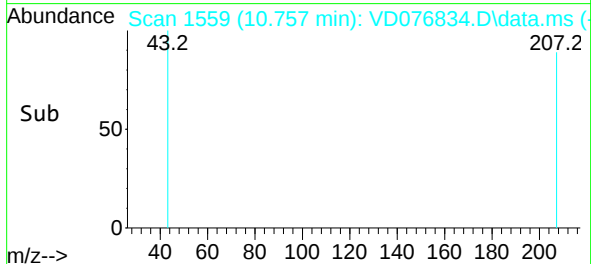
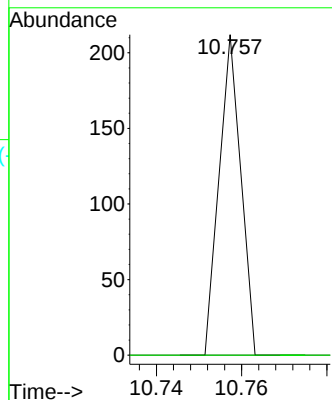
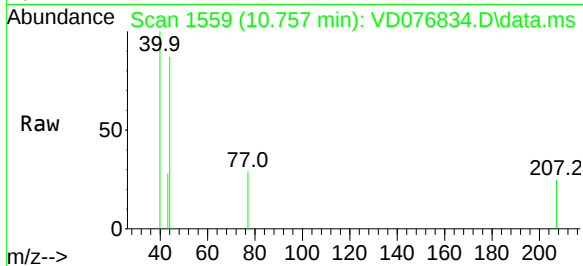




#59
2-Hexanone
Concen: 10.060 ug/l
RT: 10.757 min Scan# 11
Delta R.T. -0.165 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

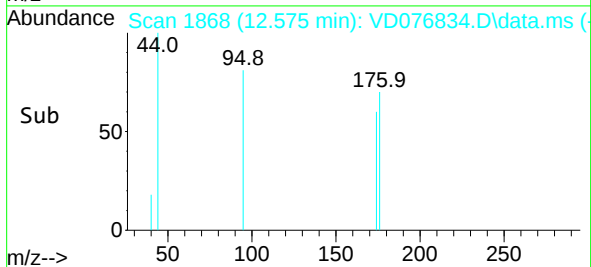
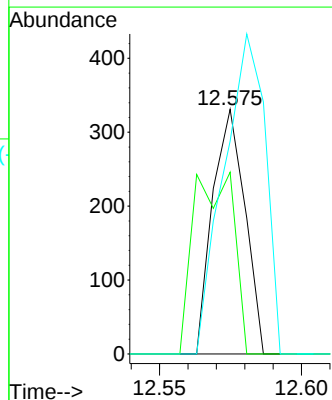
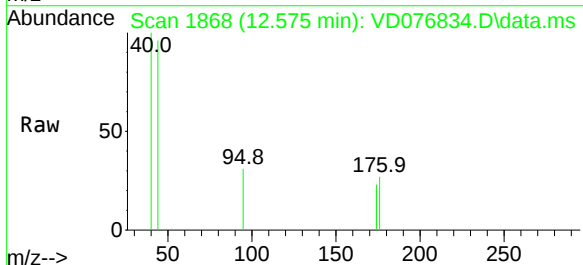
Instrument :
MSVOA_D
ClientSampleId :
B-P39C

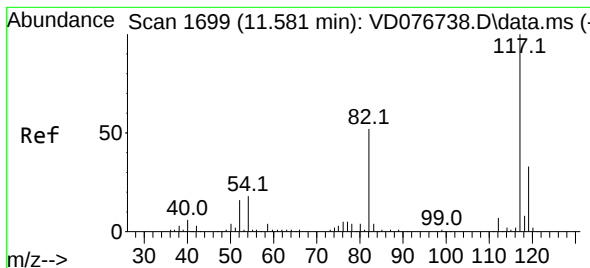
Tgt Ion: 43 Resp: 75
Ion Ratio Lower Upper
43 100
58 0.0 34.1 102.2#



#62
4-Bromofluorobenzene
Concen: 13.108 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

Tgt Ion: 95 Resp: 261
Ion Ratio Lower Upper
95 100
174 92.7 0.0 201.8
176 167.8 0.0 191.8

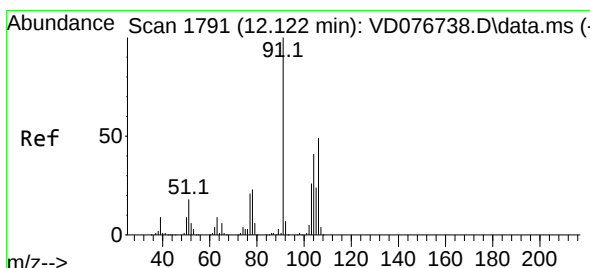
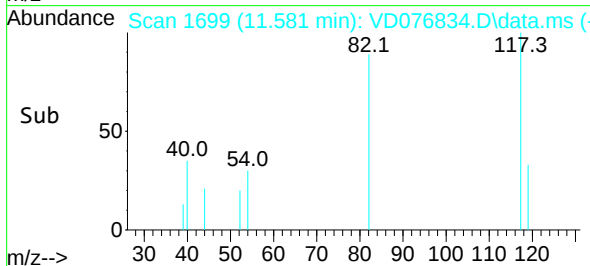
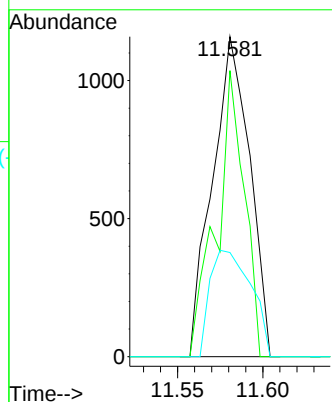
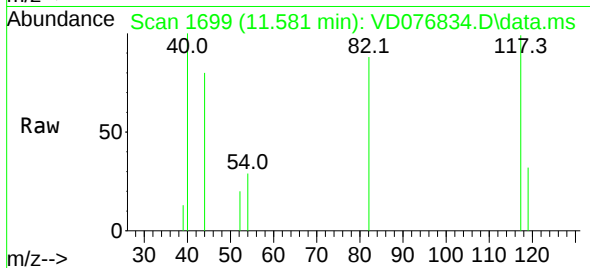




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

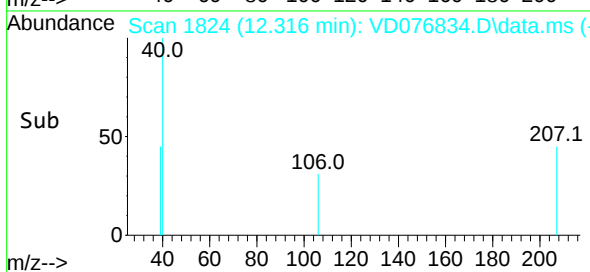
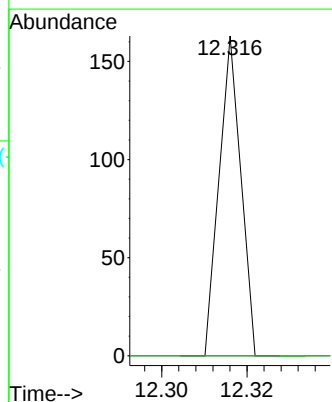
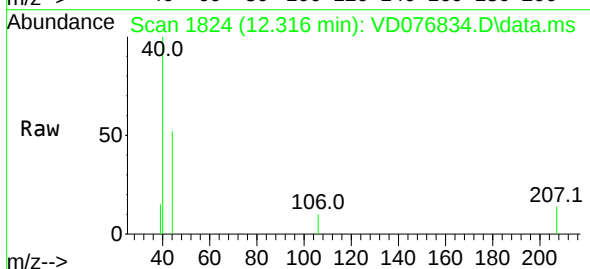
Instrument :
MSVOA_D
ClientSampleId :
B-P39C

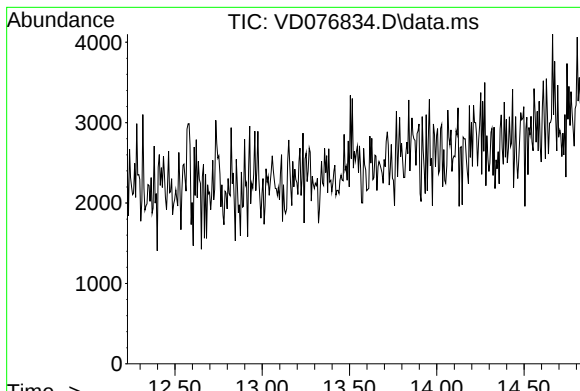
Tgt Ion:117 Resp: 1763
Ion Ratio Lower Upper
117 100
82 89.4 38.3 57.5#
119 32.5 25.0 37.4



#69
o-Xylene
Concen: 2.465 ug/l
RT: 12.316 min Scan# 1824
Delta R.T. 0.194 min
Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

Tgt Ion:106 Resp: 57
Ion Ratio Lower Upper
106 100
91 0.0 97.9 293.6#





#72
1,4-Dichlorobenzene-d4
Concen: 0.000 ug/l
Expected RT: 13.52 min

Lab File: VD076834.D
Acq: 27 Jul 2023 15:13

Instrument :
MSVOA_D
ClientSampleId :
B-P39C

Tgt Ion: 152
Sig Exp Ratio
152 100
115 54.2
150 176.8

