

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD062223\
 Data File : VD076538.D
 Acq On : 22 Jun 2023 14:44
 Operator : KP/SY
 Sample : 03352-01
 Misc : 4.56G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BU-3-062023

Quant Time: Jun 23 06:36:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D061623S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 19 04:51:45 2023
 Response via : Initial Calibration

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

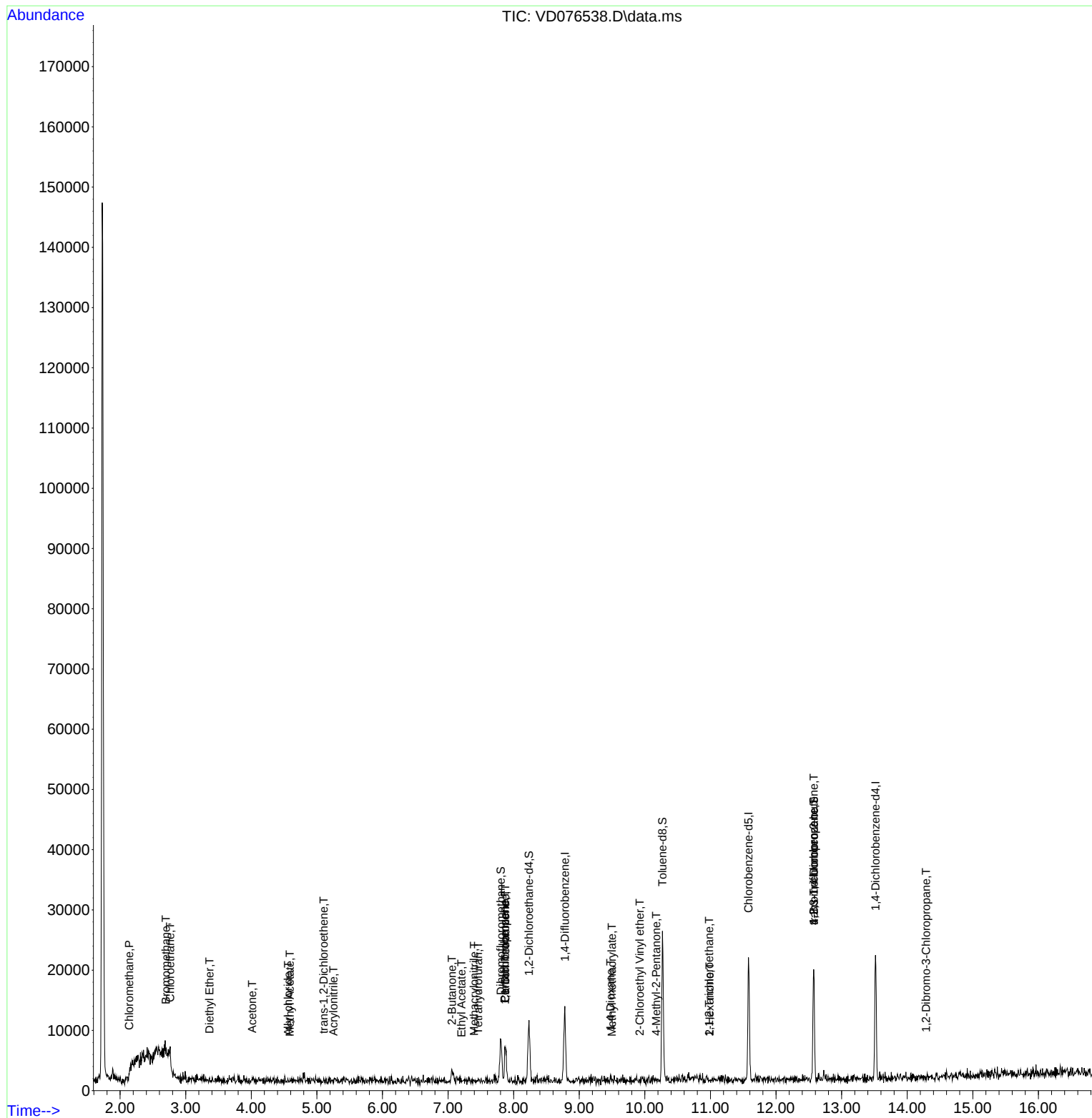
Internal Standards						
1) Pentafluorobenzene	7.863	168	5054	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.781	114	10655	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	11594	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	5681	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	7071	139.642	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 279.280%#			
35) Dibromofluoromethane	7.805	113	5336	84.300	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 168.600%#			
50) Toluene-d8	10.269	98	15478	64.477	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 128.960%			
62) 4-Bromofluorobenzene	12.575	95	5654	72.573	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 145.140%#			
Target Compounds						Qvalue
3) Chloromethane	2.140	50	255	3.193	ug/l #	41
5) Bromomethane	2.699	94	222	3.832	ug/l #	64
6) Chloroethane	2.764	64	161	2.637	ug/l #	43
8) Diethyl Ether	3.364	74	56	2.029	ug/l #	12
14) Allyl chloride	4.564	41	116	1.372	ug/l #	19
15) Acrylonitrile	5.252	53	55	3.876	ug/l #	18
16) Acetone	4.016	43	592	49.130	ug/l #	32
18) Methyl Acetate	4.587	43	66	1.189	ug/l #	42
20) Methylene Chloride	4.799	84	436	Below Cal	#	17
21) trans-1,2-Dichloroethene	5.105	96	61	1.141	ug/l #	4
25) 2-Butanone	7.057	43	189	10.141	ug/l #	37
29) Tetrahydrofuran	7.457	42	61	5.093	ug/l #	23
31) Cyclohexane	7.722	56	64	Below Cal	#	8
36) 1,1-Dichloropropene	7.869	75	282	3.181	ug/l #	39
37) Ethyl Acetate	7.205	43	183	3.563	ug/l #	62
38) Carbon Tetrachloride	7.875	117	170	2.146	ug/l #	11
41) Methacrylonitrile	7.399	41	122	4.206	ug/l #	8
48) Methyl methacrylate	9.499	41	67	1.503	ug/l #	1
49) 1,4-Dioxane	9.475	88	85	180.692	ug/l #	18
51) 4-Methyl-2-Pentanone	10.175	43	149	2.997	ug/l #	28
55) 1,1,2-Trichloroethane	10.981	97	67	1.220	ug/l #	16
58) 2-Chloroethyl Vinyl ether	9.922	63	59	1.941	ug/l #	43
59) 2-Hexanone	10.987	43	68	1.967	ug/l #	16
76) 1,2,3-Trichloropropane	12.575	75	2882	51.115	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	2882	112.005	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.287	75	71	5.976	ug/l #	1

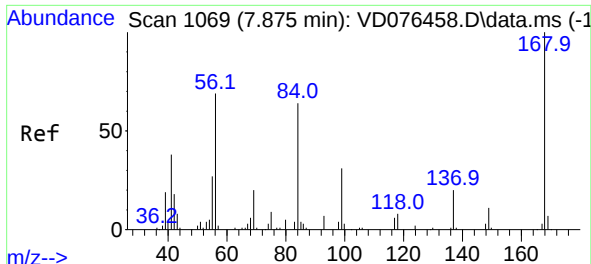
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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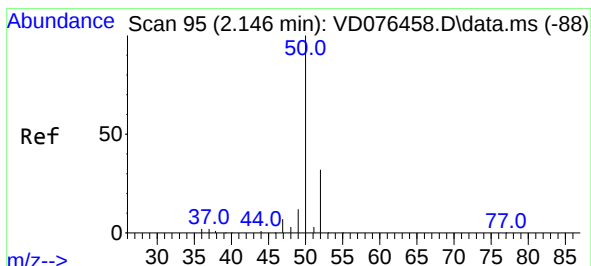
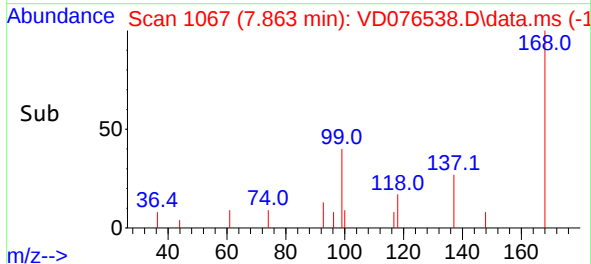
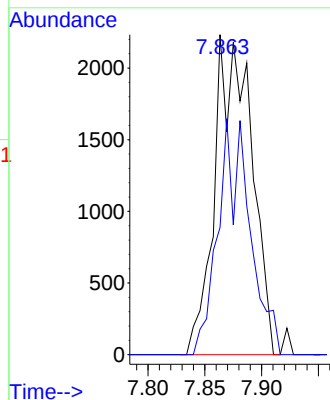
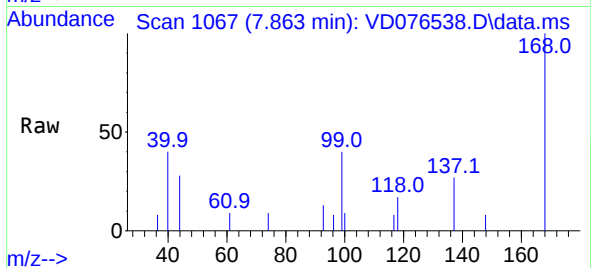




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.863 min Scan# 1069
Delta R.T. -0.012 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

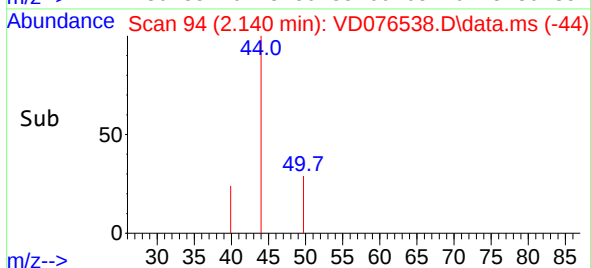
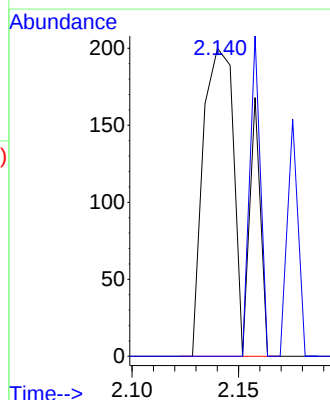
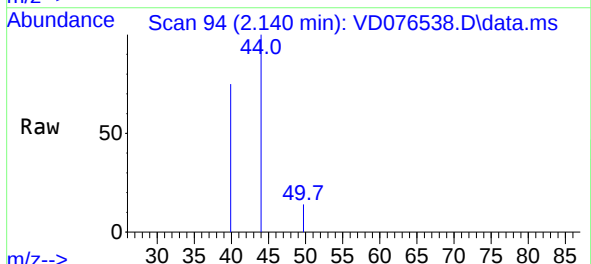
Instrument :
MSVOA_D
ClientSampleId :
BU-3-062023

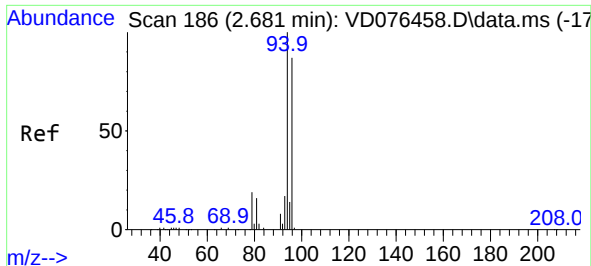
Tgt Ion:168 Resp: 5054
Ion Ratio Lower Upper
168 100
99 39.8 36.7 55.1



#3
Chloromethane
Concen: 3.193 ug/l
RT: 2.140 min Scan# 94
Delta R.T. -0.006 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

Tgt Ion: 50 Resp: 255
Ion Ratio Lower Upper
50 100
52 0.0 26.6 40.0#

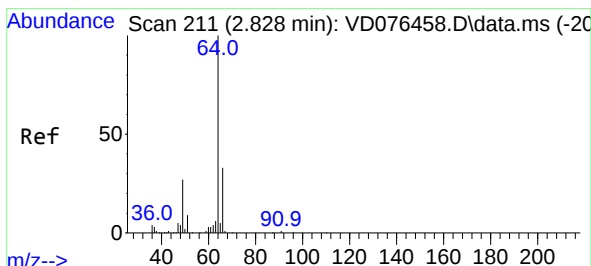
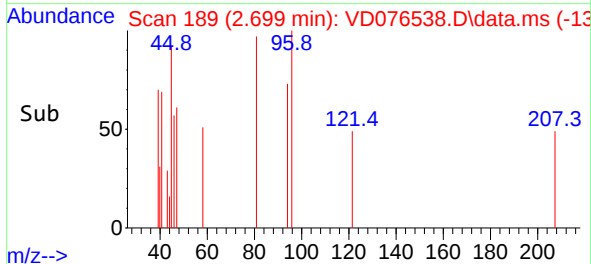
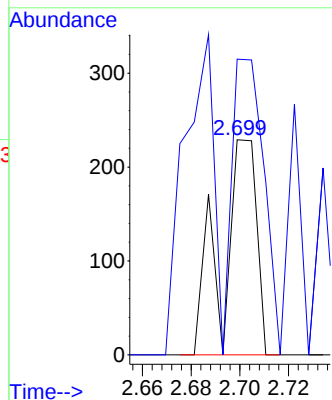
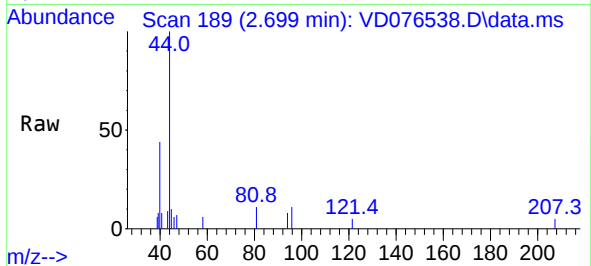




#5
Bromomethane
Concen: 3.832 ug/l
RT: 2.699 min Scan# 11
Delta R.T. 0.018 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

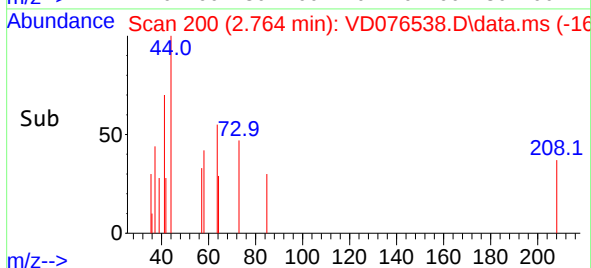
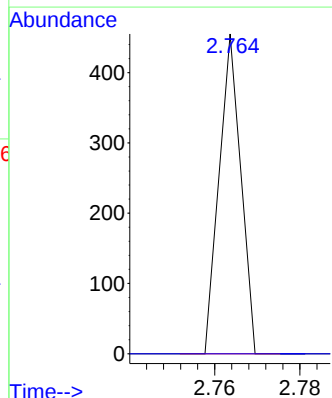
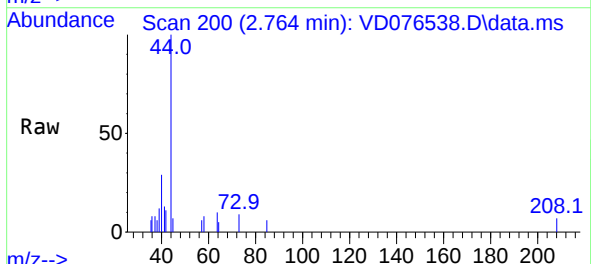
Instrument :
MSVOA_D
ClientSampleId :
BU-3-062023

Tgt Ion: 94 Resp: 222
Ion Ratio Lower Upper
94 100
96 129.3 75.8 113.8#

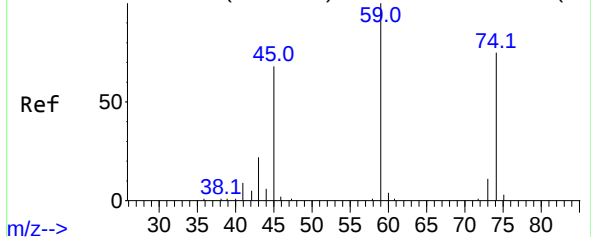


#6
Chloroethane
Concen: 2.637 ug/l
RT: 2.764 min Scan# 200
Delta R.T. -0.065 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

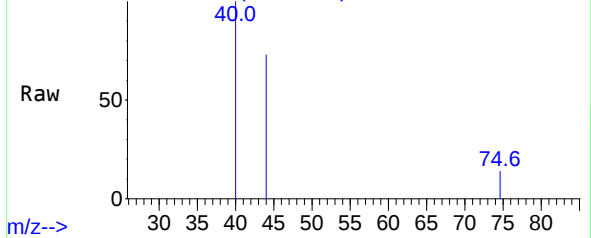
Tgt Ion: 64 Resp: 161
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



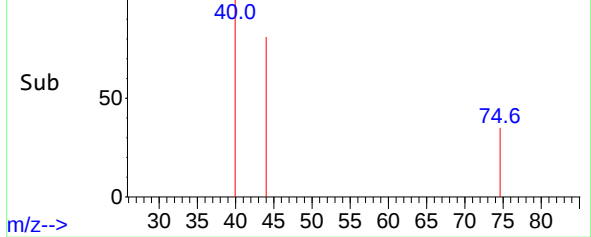
Abundance Scan 340 (3.587 min): VD076458.D\data.ms (-33



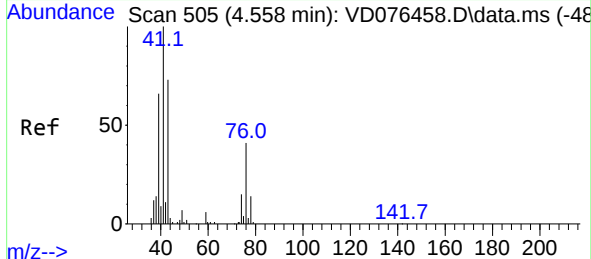
m/z--> Scan 302 (3.364 min): VD076538.D\data.ms



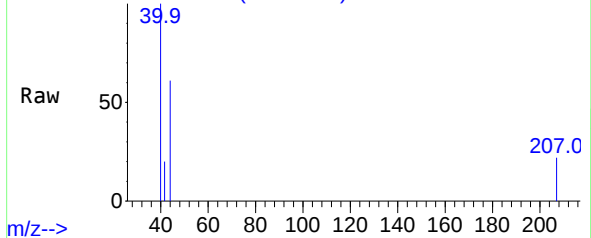
Abundance Scan 302 (3.364 min): VD076538.D\data.ms (-28



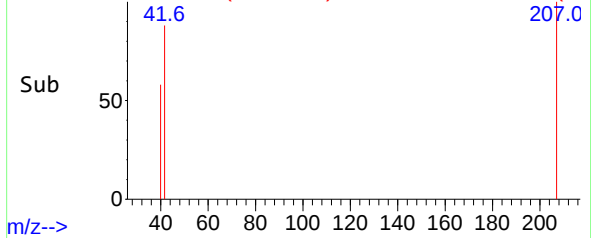
m/z--> Scan 505 (4.558 min): VD076458.D\data.ms (-48



m/z--> Scan 506 (4.564 min): VD076538.D\data.ms



Abundance Scan 506 (4.564 min): VD076538.D\data.ms (-45



m/z--> Time-->

#8

Diethyl Ether

Concen: 2.029 ug/l

RT: 3.364 min Scan# 30

Delta R.T. -0.224 min

Lab File: VD076538.D

Acq: 22 Jun 2023 14:44

Instrument :

MSVOA_D

ClientSampleId :

BU-3-062023

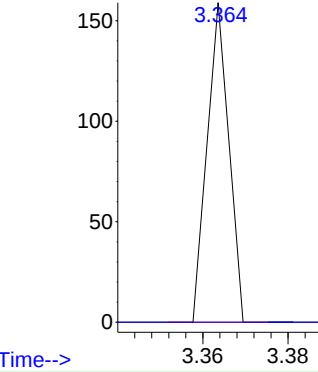
Tgt Ion: 74 Resp: 56

Ion Ratio Lower Upper

74 100

45 0.0 37.5 112.7#

Abundance



#14

Allyl chloride

Concen: 1.372 ug/l

RT: 4.564 min Scan# 506

Delta R.T. 0.006 min

Lab File: VD076538.D

Acq: 22 Jun 2023 14:44

Tgt Ion: 41 Resp: 116

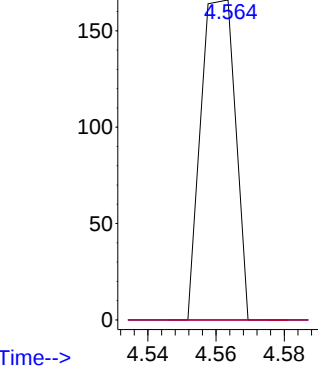
Ion Ratio Lower Upper

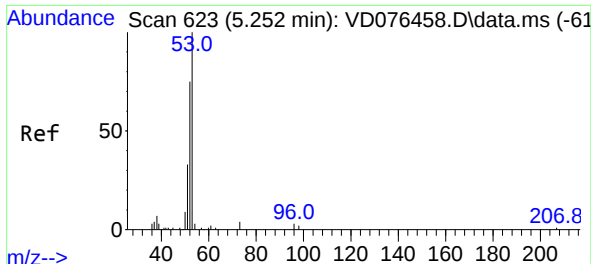
41 100

39 0.0 53.8 80.6#

76 0.0 45.8 68.8#

Abundance

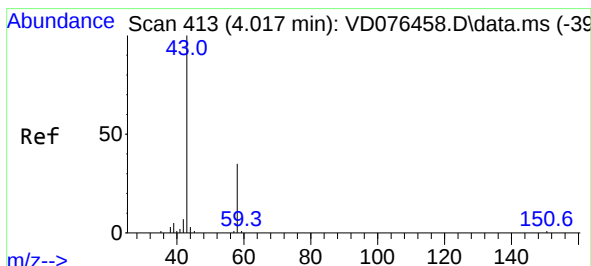
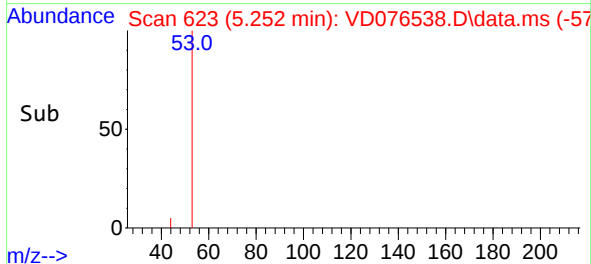
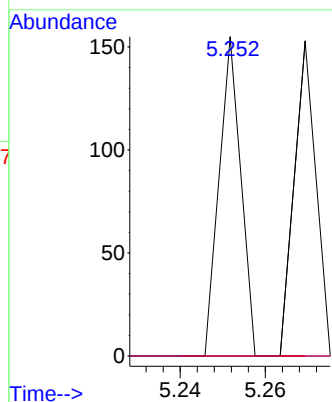
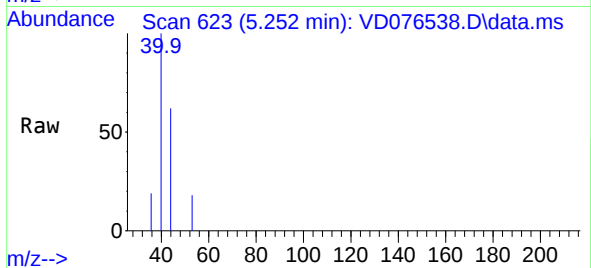




#15
Acrylonitrile
Concen: 3.876 ug/l
RT: 5.252 min Scan# 61
Delta R.T. -0.000 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

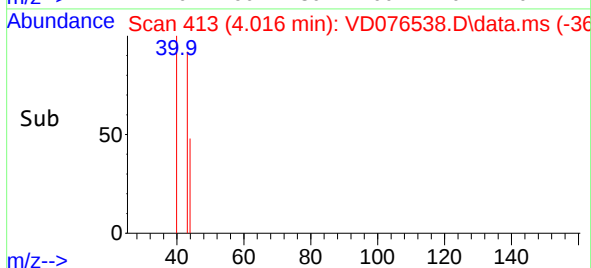
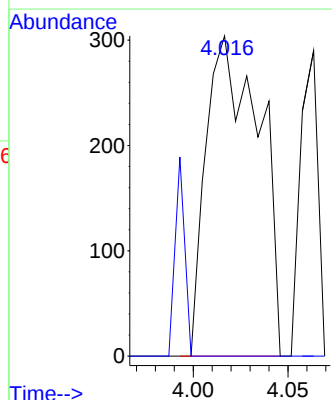
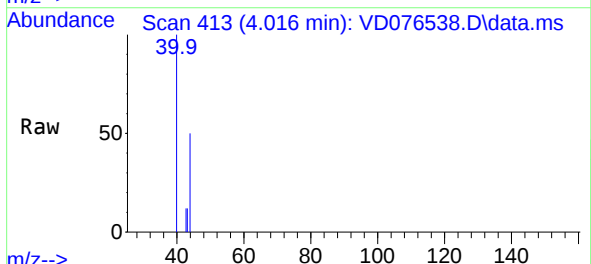
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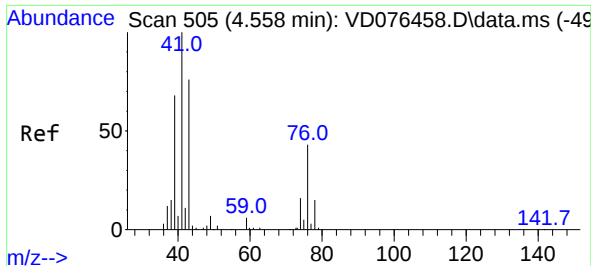
Tgt Ion: 53 Resp: 55
Ion Ratio Lower Upper
53 100
52 0.0 65.0 97.4#
51 0.0 28.3 42.5#



#16
Acetone
Concen: 49.130 ug/l
RT: 4.016 min Scan# 413
Delta R.T. -0.000 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

Tgt Ion: 43 Resp: 592
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#

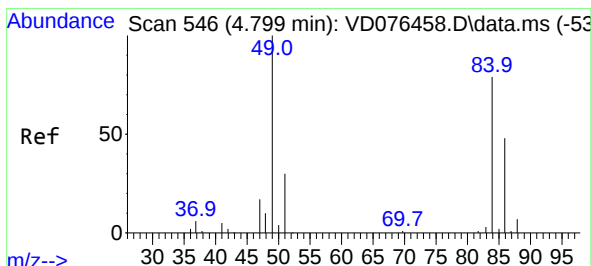
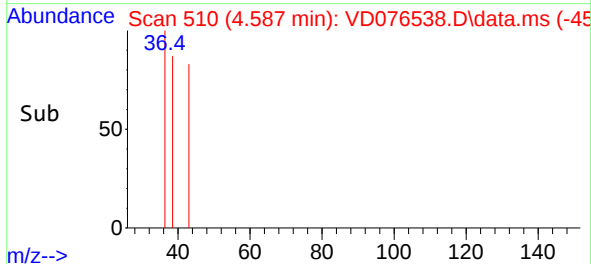
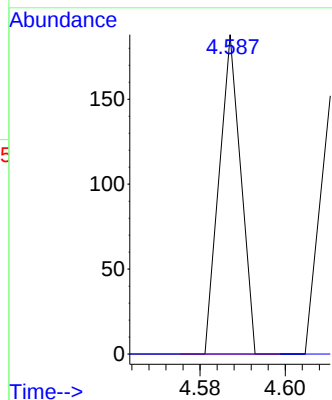
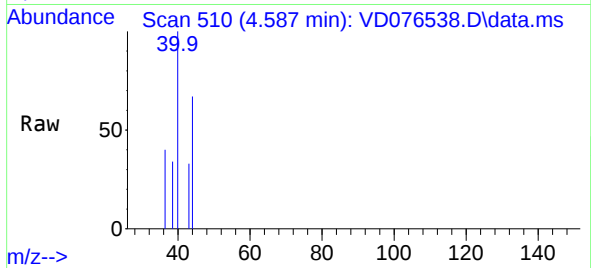




#18
Methyl Acetate
Concen: 1.189 ug/l
RT: 4.587 min Scan# 510
Delta R.T. 0.029 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

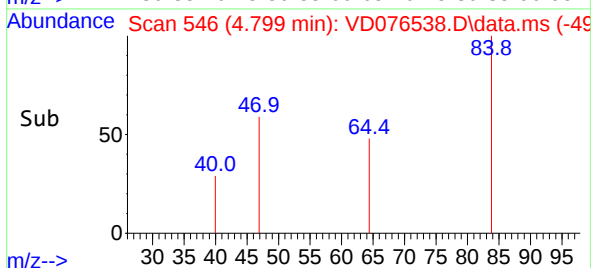
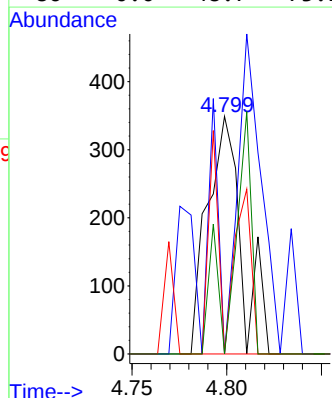
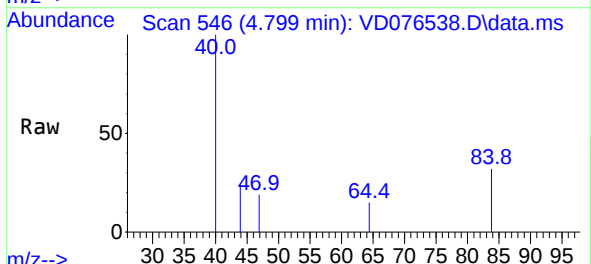
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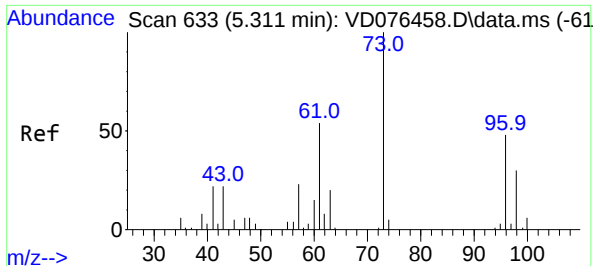
Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.799 min Scan# 546
Delta R.T. -0.000 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

Tgt Ion: 84 Resp: 436
Ion Ratio Lower Upper
84 100
49 0.0 71.4 107.2#
51 0.0 24.5 36.7#
86 0.0 48.7 73.1#

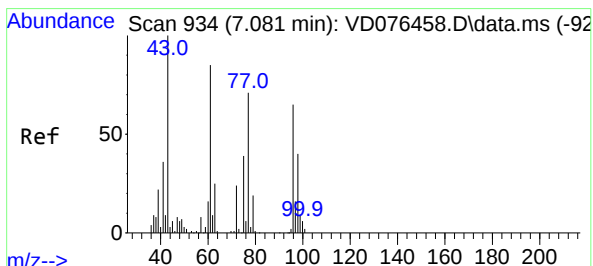
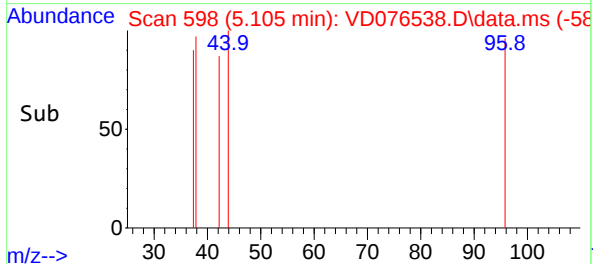
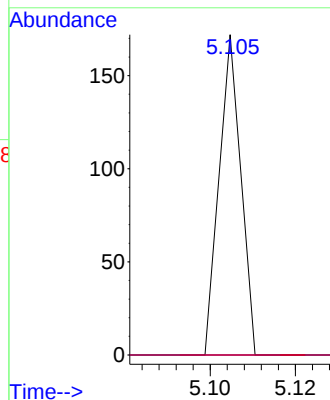
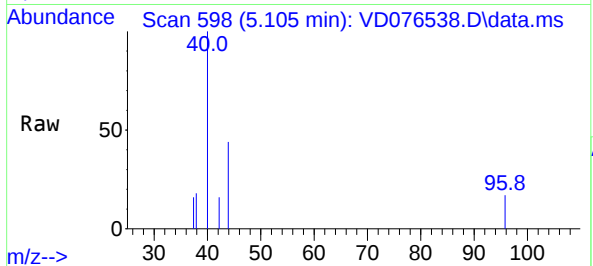




#21
trans-1,2-Dichloroethene
Concen: 1.141 ug/l
RT: 5.105 min Scan# 51
Delta R.T. -0.206 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

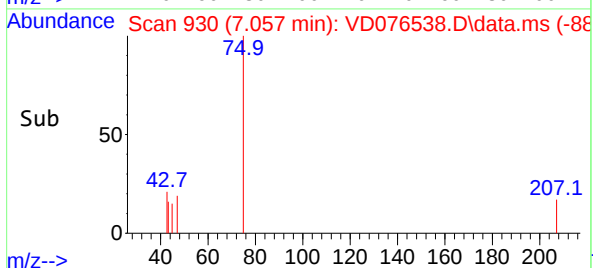
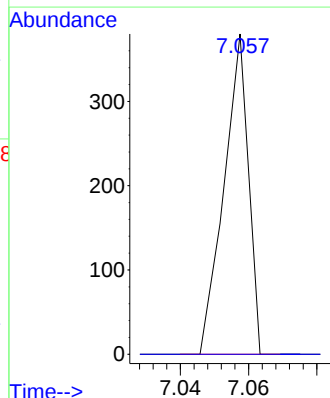
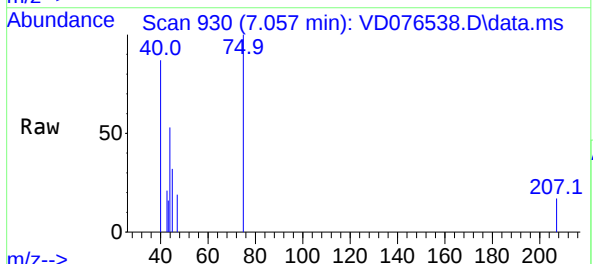
Instrument :
MSVOA_D
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BU-3-062023

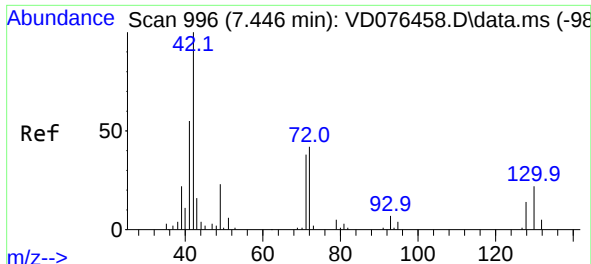
Tgt Ion: 96 Resp: 61
Ion Ratio Lower Upper
96 100
61 0.0 89.3 133.9#
98 0.0 48.6 73.0#



#25
2-Butanone
Concen: 10.141 ug/l
RT: 7.057 min Scan# 930
Delta R.T. -0.024 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

Tgt Ion: 43 Resp: 189
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#





#29

Tetrahydrofuran

Concen: 5.093 ug/l

RT: 7.457 min Scan# 91

Delta R.T. 0.011 min

Lab File: VD076538.D

Acq: 22 Jun 2023 14:44

Instrument :

MSVOA_D

ClientSampleId :

BU-3-062023

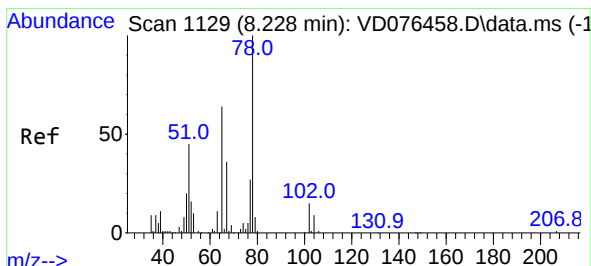
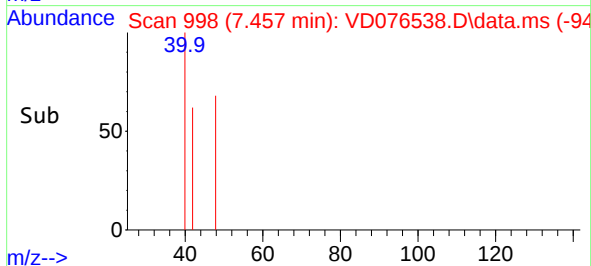
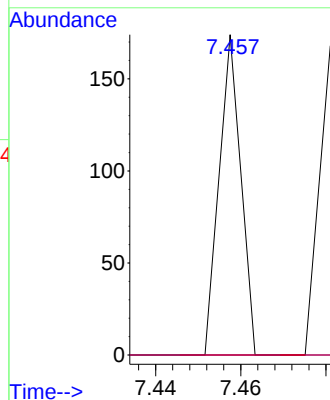
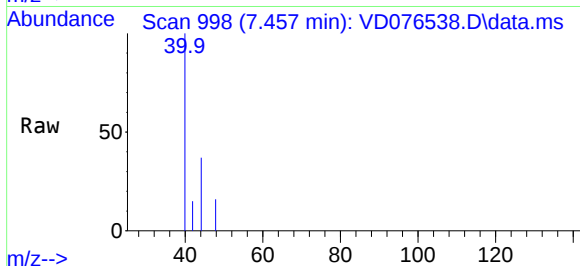
Tgt Ion: 42 Resp: 61

Ion Ratio Lower Upper

42 100

72 0.0 46.5 69.7#

71 0.0 44.5 66.7#



#33

1,2-Dichloroethane-d4

Concen: 139.642 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VD076538.D

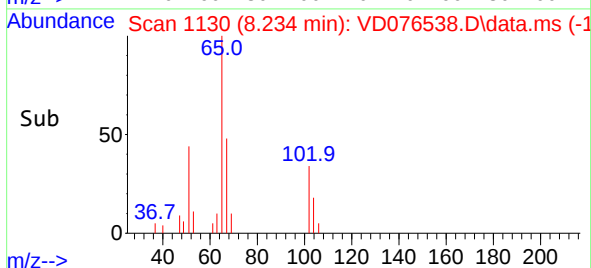
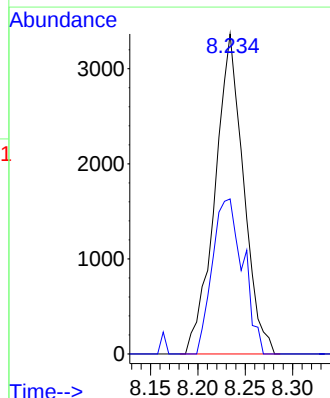
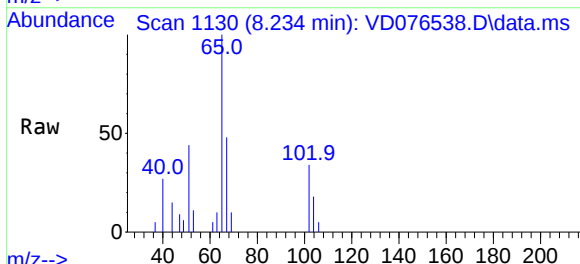
Acq: 22 Jun 2023 14:44

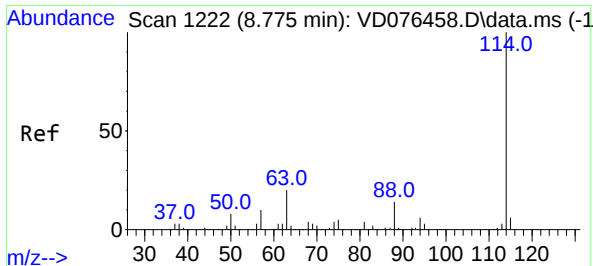
Tgt Ion: 65 Resp: 7071

Ion Ratio Lower Upper

65 100

67 52.0 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 11

Delta R.T. 0.006 min

Lab File: VD076538.D

Acq: 22 Jun 2023 14:44

Instrument :

MSVOA_D

ClientSampleId :

BU-3-062023

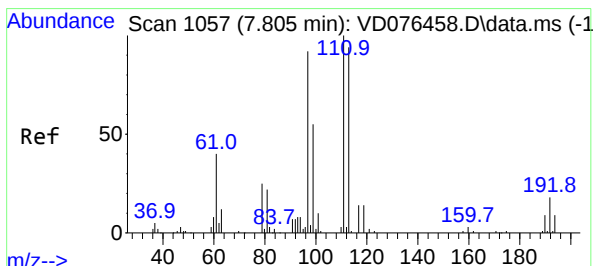
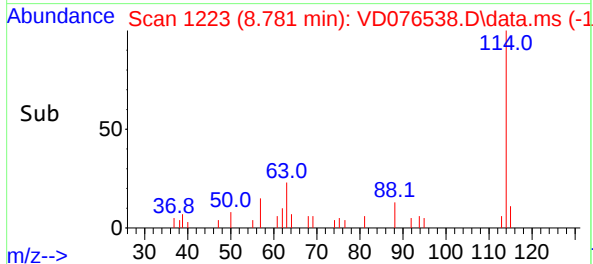
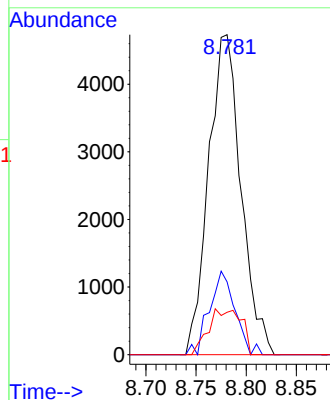
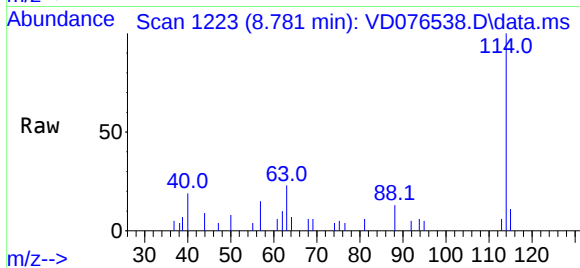
Tgt Ion:114 Resp: 10655

Ion Ratio Lower Upper

114 100

63 22.8 0.0 33.4

88 13.3 0.0 26.2



#35

Dibromofluoromethane

Concen: 84.300 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VD076538.D

Acq: 22 Jun 2023 14:44

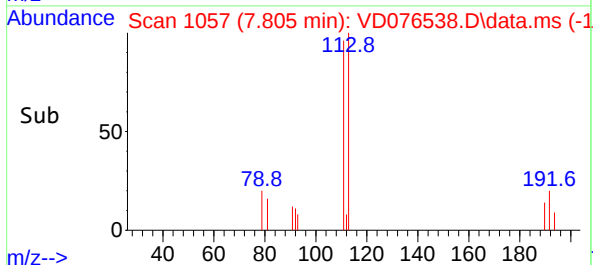
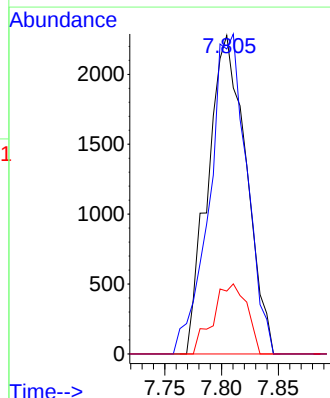
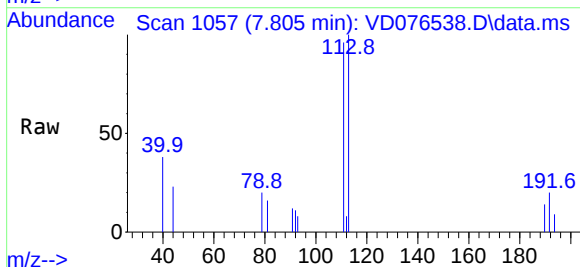
Tgt Ion:113 Resp: 5336

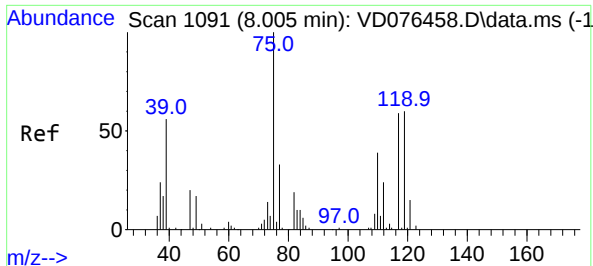
Ion Ratio Lower Upper

113 100

111 98.1 84.7 127.1

192 19.5 16.8 25.2

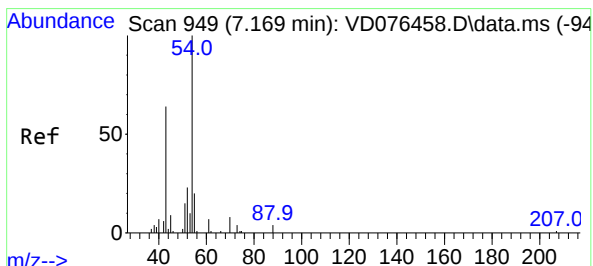
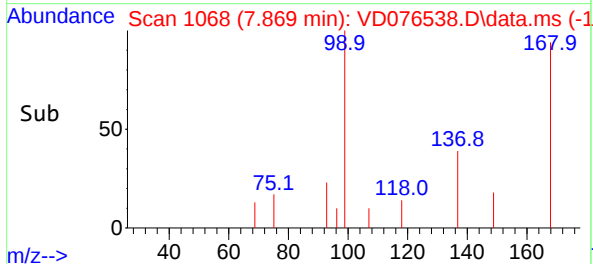
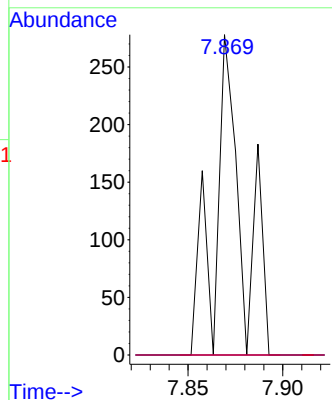
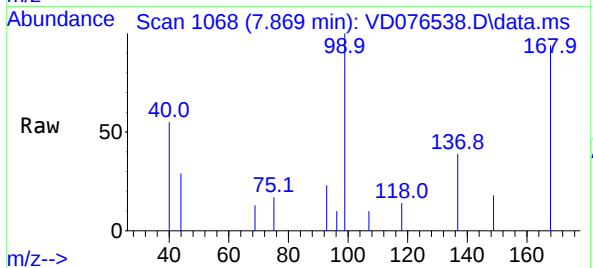




#36
1,1-Dichloropropene
Concen: 3.181 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

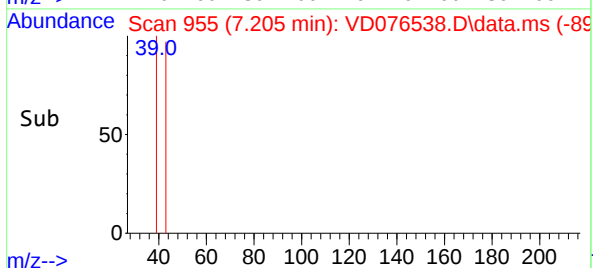
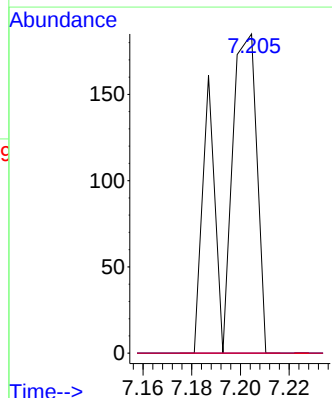
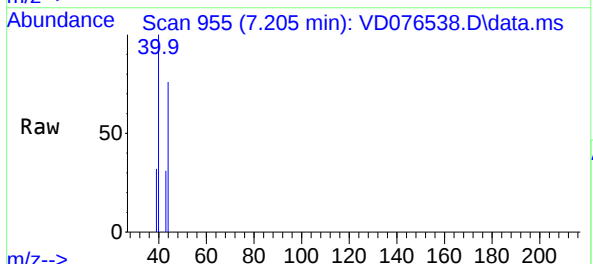
Instrument :
MSVOA_D
ClientSampleId :
BU-3-062023

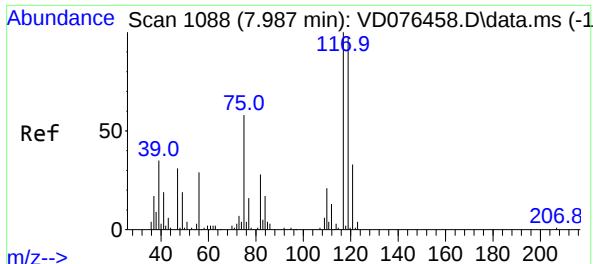
Tgt Ion: 75 Resp: 282
Ion Ratio Lower Upper
75 100
110 0.0 19.9 59.6#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 3.563 ug/l
RT: 7.205 min Scan# 955
Delta R.T. 0.035 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

Tgt Ion: 43 Resp: 183
Ion Ratio Lower Upper
43 100
61 0.0 14.9 22.3#
70 0.0 10.0 15.0#

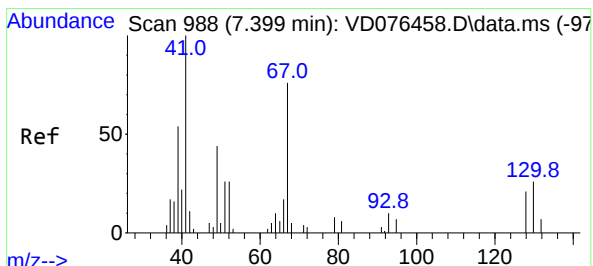
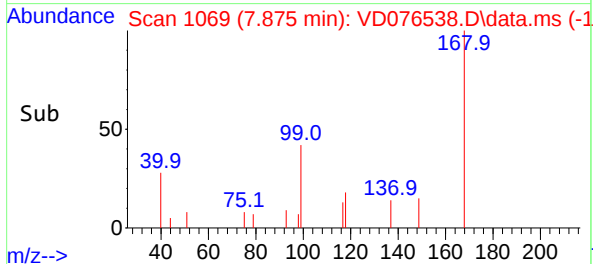
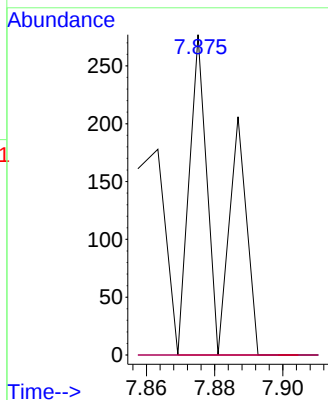
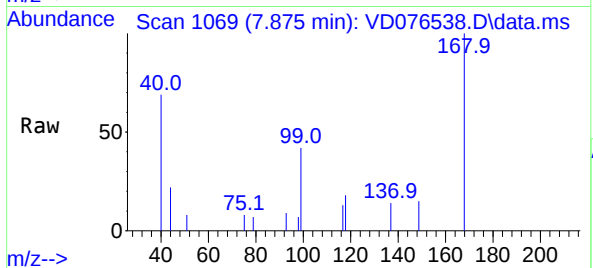




#38
Carbon Tetrachloride
Concen: 2.146 ug/l
RT: 7.875 min Scan# 1088
Delta R.T. -0.112 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

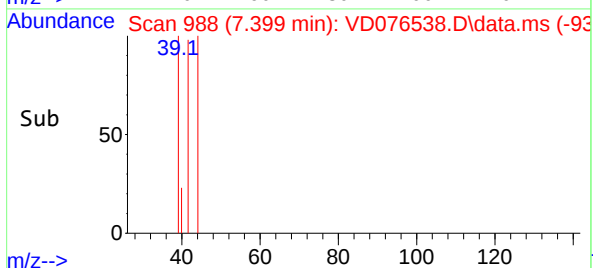
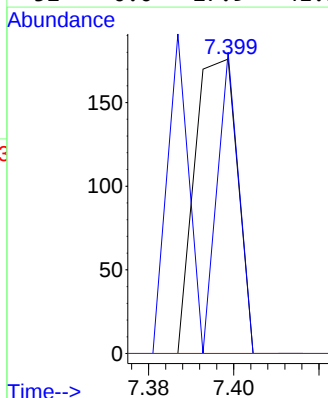
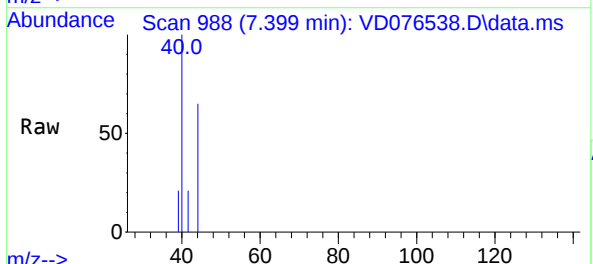
Instrument :
MSVOA_D
ClientSampleId :
BU-3-062023

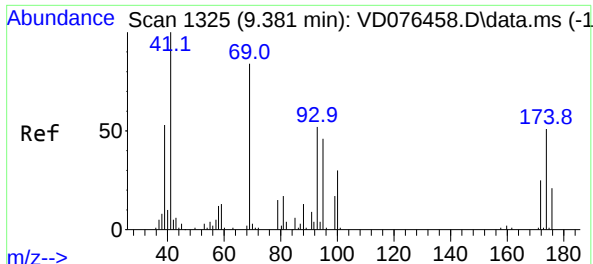
Tgt Ion:	117	Resp:	170
Ion	Ratio	Lower	Upper
117	100		
119	0.0	78.0	117.0#
121	0.0	24.2	36.2#



#41
Methacrylonitrile
Concen: 4.206 ug/l
RT: 7.399 min Scan# 988
Delta R.T. -0.000 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

Tgt Ion:	41	Resp:	122
Ion	Ratio	Lower	Upper
41	100		
39	107.4	34.0	51.0#
67	0.0	77.0	115.4#
52	0.0	27.9	41.9#





#48

Methyl methacrylate

Concen: 1.503 ug/l

RT: 9.499 min Scan# 11

Delta R.T. 0.118 min

Lab File: VD076538.D

Acq: 22 Jun 2023 14:44

Instrument :

MSVOA_D

ClientSampleId :

BU-3-062023

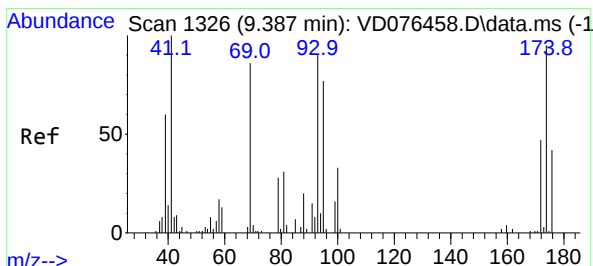
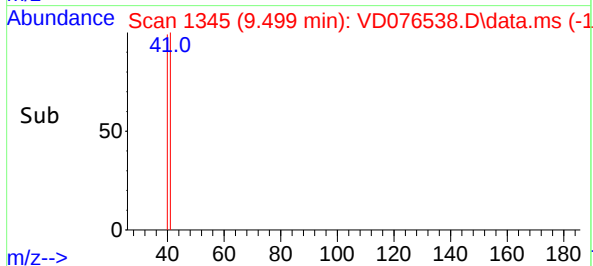
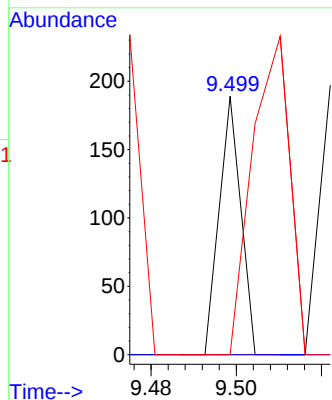
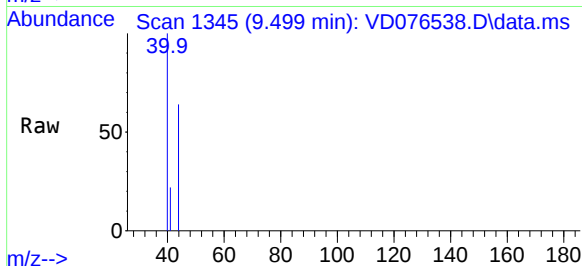
Tgt Ion: 41 Resp: 67

Ion Ratio Lower Upper

41 100

69 0.0 102.2 153.2#

39 0.0 41.4 62.2#



#49

1,4-Dioxane

Concen: 180.692 ug/l

RT: 9.475 min Scan# 1341

Delta R.T. 0.088 min

Lab File: VD076538.D

Acq: 22 Jun 2023 14:44

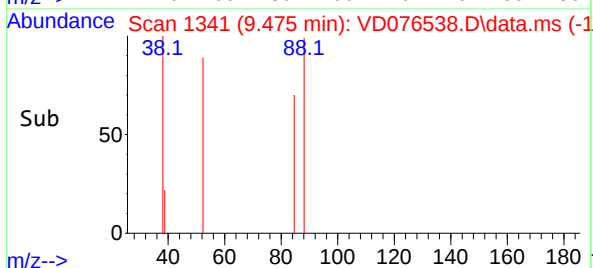
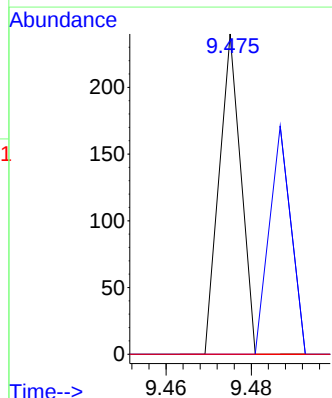
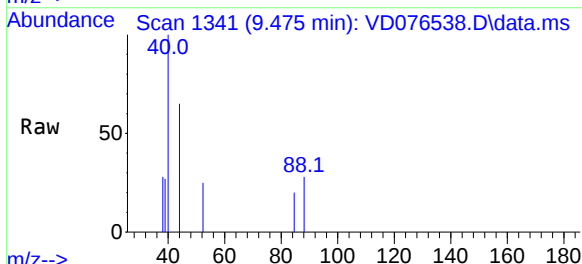
Tgt Ion: 88 Resp: 85

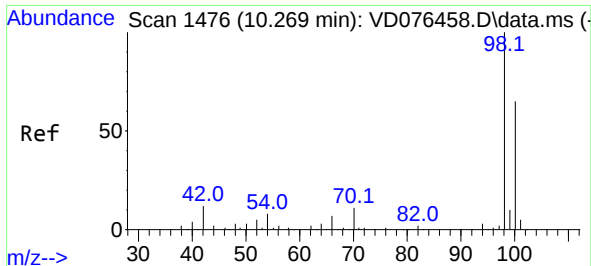
Ion Ratio Lower Upper

88 100

43 70.6 19.0 28.6#

58 0.0 43.5 65.3#

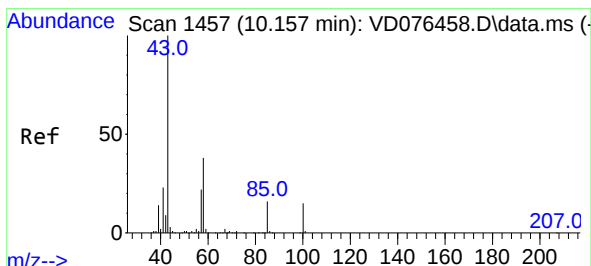
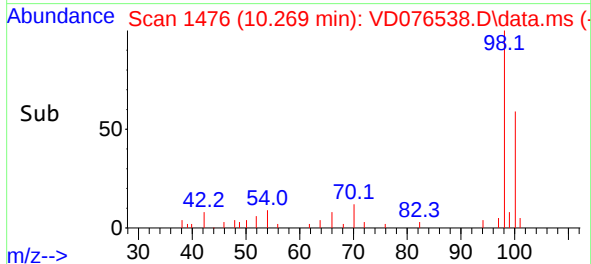
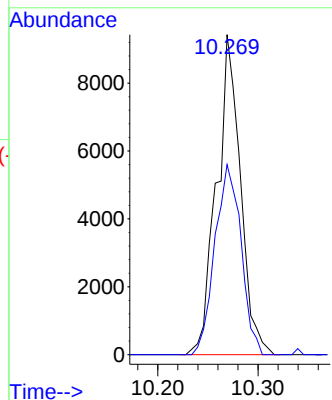
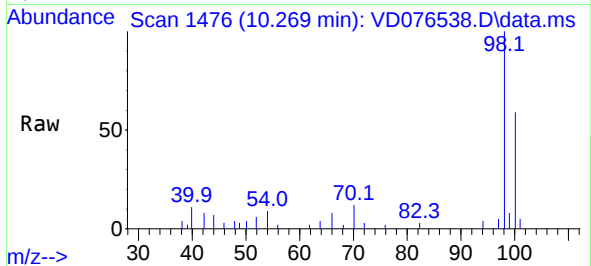




#50
Toluene-d8
Concen: 64.477 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

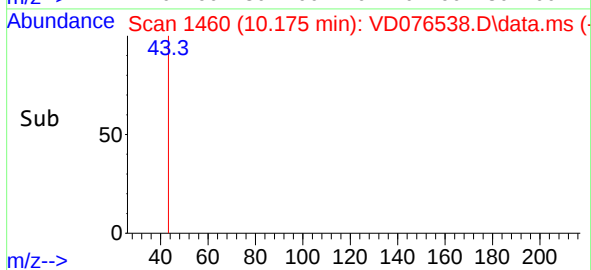
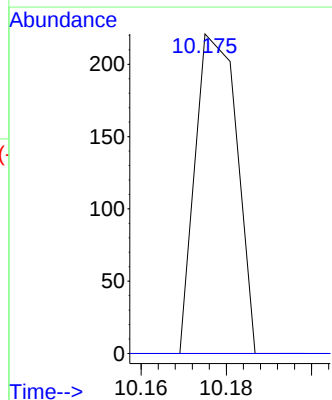
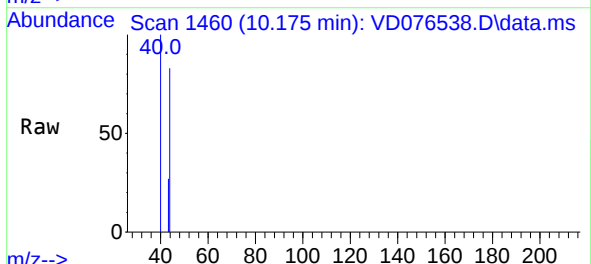
Instrument :
MSVOA_D
ClientSampleId :
BU-3-062023

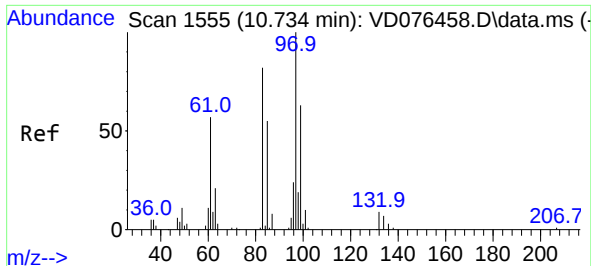
Tgt Ion: 98 Resp: 15478
Ion Ratio Lower Upper
98 100
100 65.3 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 2.997 ug/l
RT: 10.175 min Scan# 1460
Delta R.T. 0.018 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

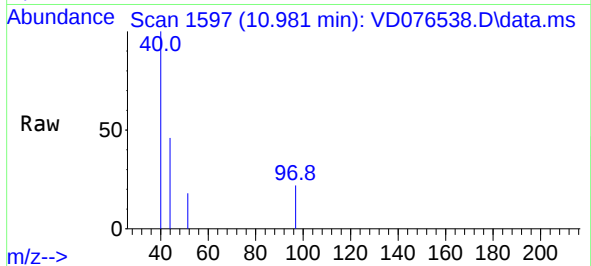
Tgt Ion: 43 Resp: 149
Ion Ratio Lower Upper
43 100
58 0.0 38.9 58.3#



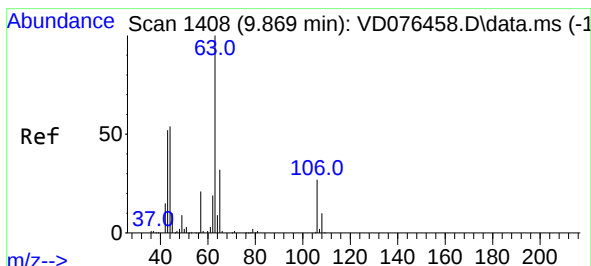
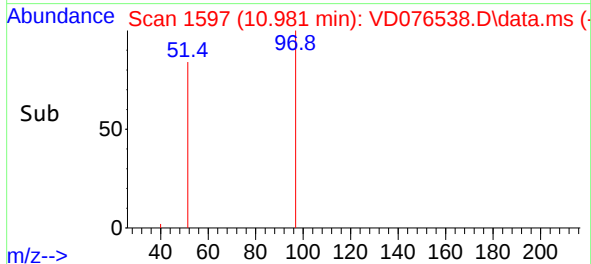
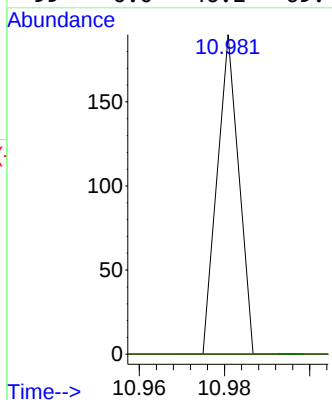


#55
1,1,2-Trichloroethane
Concen: 1.220 ug/l
RT: 10.981 min Scan# 11
Delta R.T. 0.247 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

Instrument :
MSVOA_D
ClientSampleId :
BU-3-062023

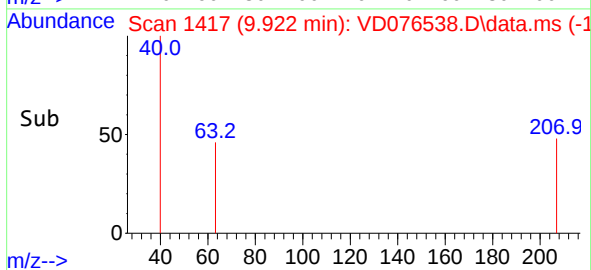
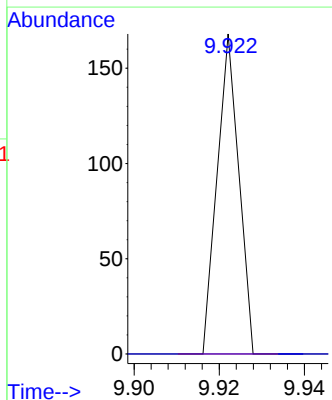
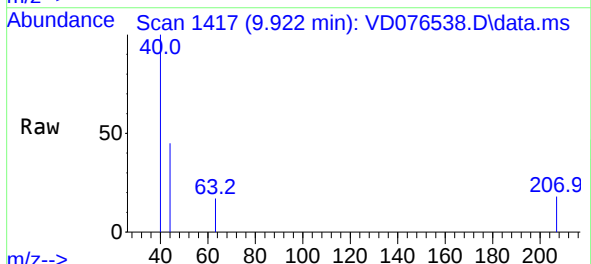


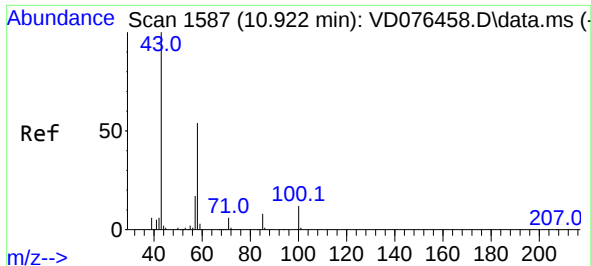
Tgt Ion: 97	Resp: 67
Ion Ratio	Lower Upper
97 100	
83 0.0	65.8 98.6#
85 0.0	45.7 68.5#
99 0.0	46.2 69.4#



#58
2-Chloroethyl Vinyl ether
Concen: 1.941 ug/l
RT: 9.922 min Scan# 1417
Delta R.T. 0.053 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

Tgt Ion: 63	Resp: 59
Ion Ratio	Lower Upper
63 100	
106 0.0	25.3 37.9#

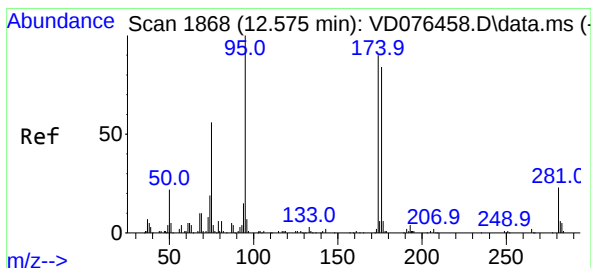
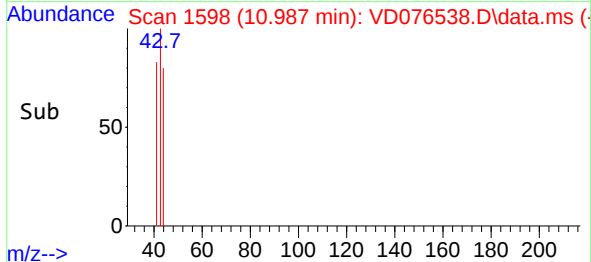
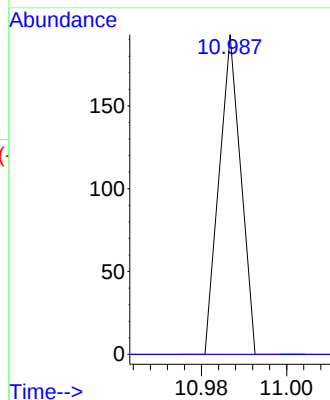
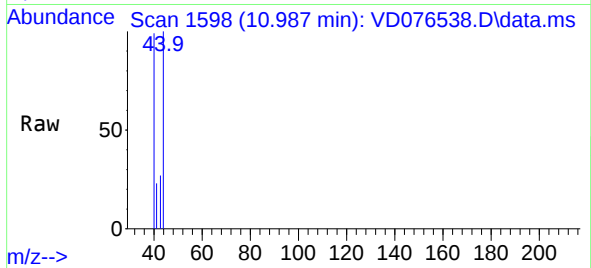




#59
2-Hexanone
Concen: 1.967 ug/l
RT: 10.987 min Scan# 11
Delta R.T. 0.065 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

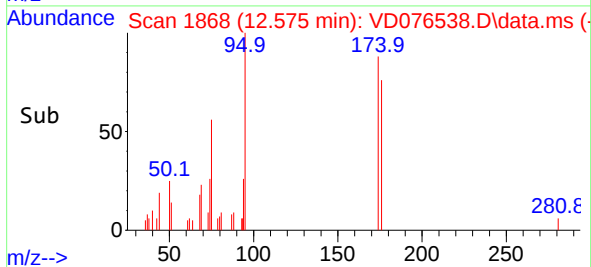
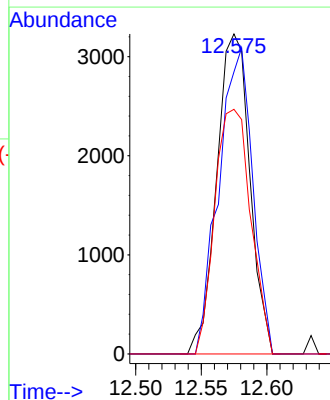
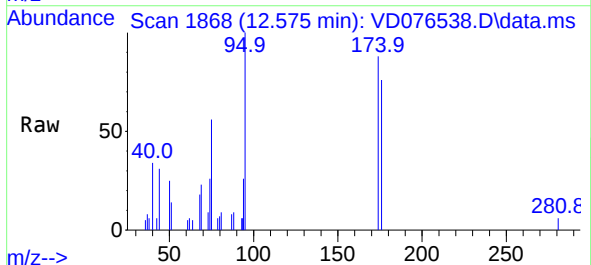
Instrument :
MSVOA_D
ClientSampleId :
BU-3-062023

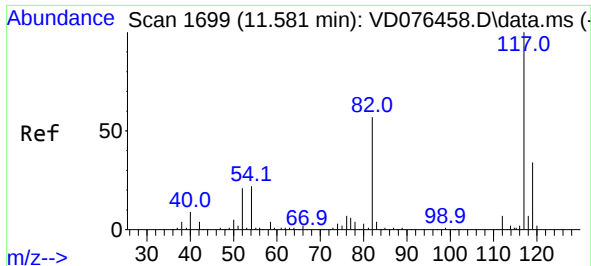
Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
58 0.0 34.1 102.2#



#62
4-Bromofluorobenzene
Concen: 72.573 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

Tgt Ion: 95 Resp: 5654
Ion Ratio Lower Upper
95 100
174 97.9 0.0 201.8
176 83.3 0.0 191.8

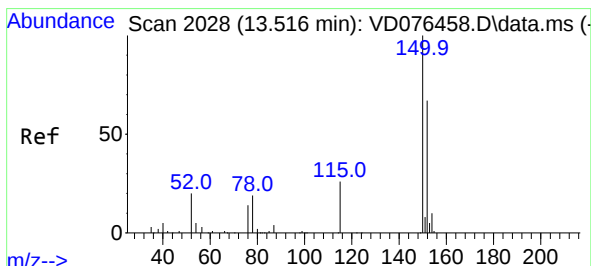
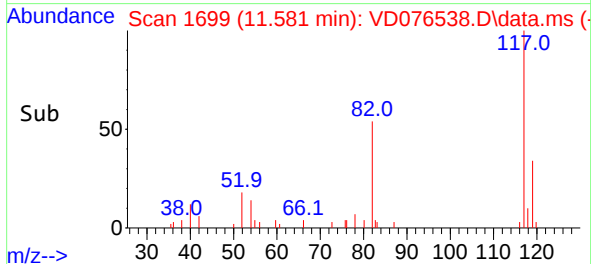
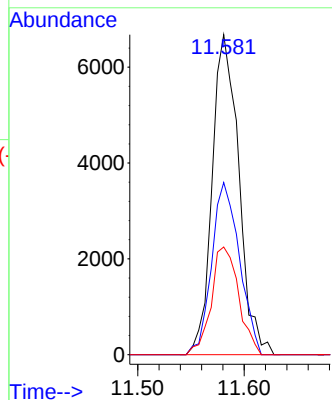
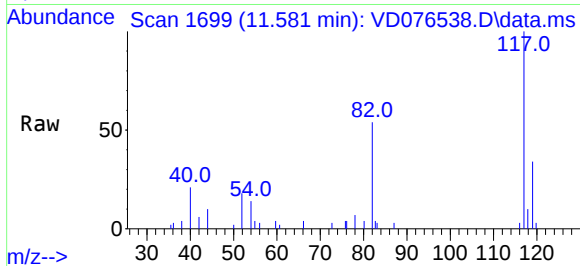




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 11594
Delta R.T. -0.000 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

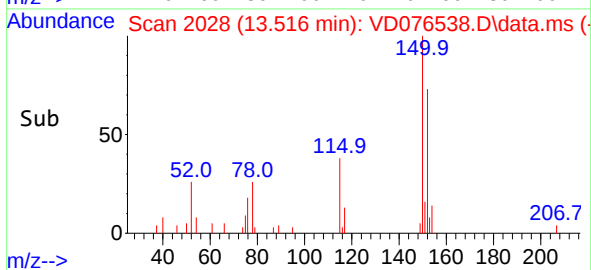
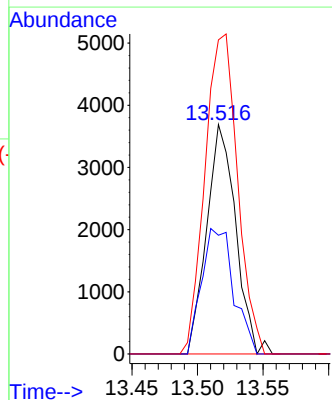
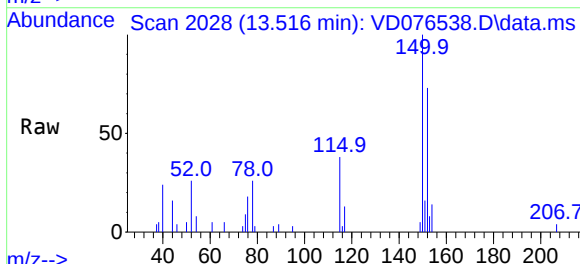
Instrument :
MSVOA_D
ClientSampleId :
BU-3-062023

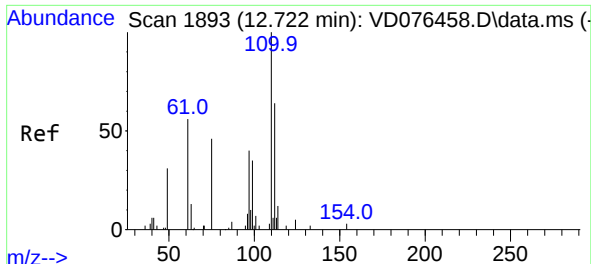
Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.7	38.3	57.5#
119	33.7	25.0	37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.5	27.1	81.3
150	156.8	0.0	353.6

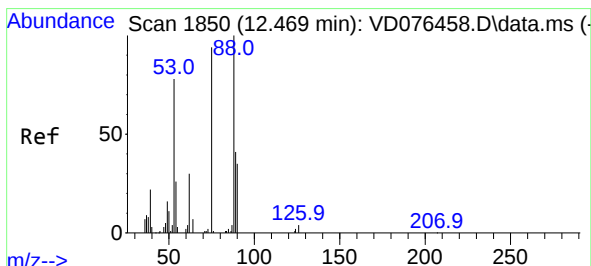
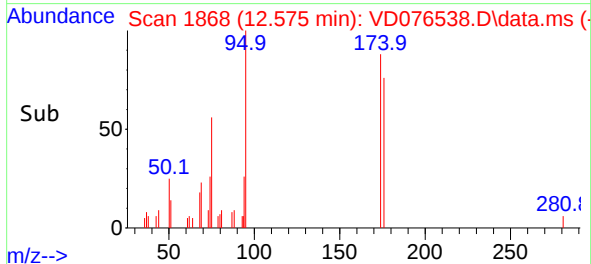
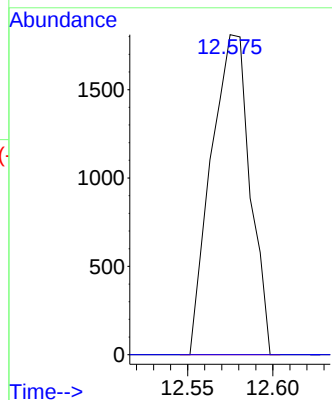
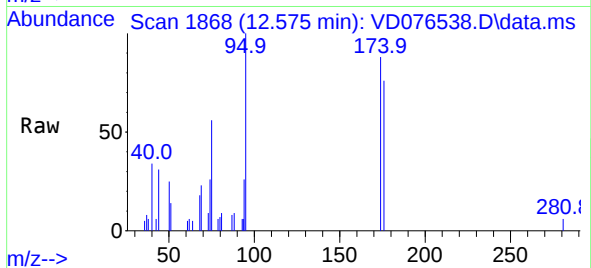




#76
1,2,3-Trichloropropane
Concen: 51.115 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

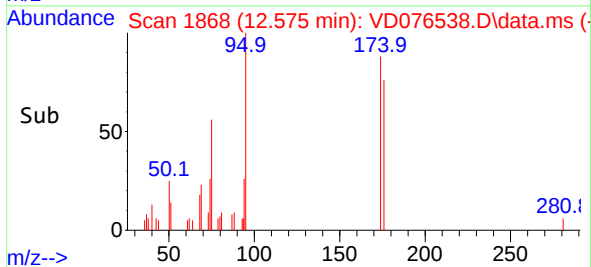
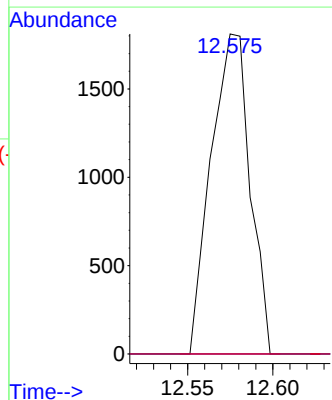
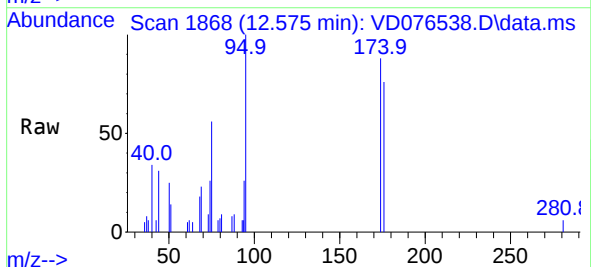
Instrument :
MSVOA_D
ClientSampleId :
BU-3-062023

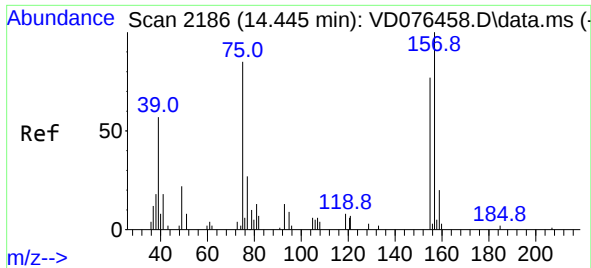
Tgt Ion: 75 Resp: 2882
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 112.005 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD076538.D
Acq: 22 Jun 2023 14:44

Tgt Ion: 75 Resp: 2882
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.0 37.9 56.9#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.976 ug/l
 RT: 14.287 min Scan# 21
 Delta R.T. -0.159 min
 Lab File: VD076538.D
 Acq: 22 Jun 2023 14:44

Instrument :
 MSVOA_D
 ClientSampleId :
 BU-3-062023

Tgt Ion: 75	Resp:	71
Ion Ratio	Lower	Upper
75	100	
155	0.0	47.9 143.8#
157	0.0	59.9 179.7#

