

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD041922\
 Data File : VD072621.D
 Acq On : 19 Apr 2022 13:28
 Operator : VA/SY
 Sample : N2463-01
 Misc : 5.03G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-041822RE

Quant Time: Apr 19 16:12:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D032922S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 30 02:44:36 2022
 Response via : Initial Calibration

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

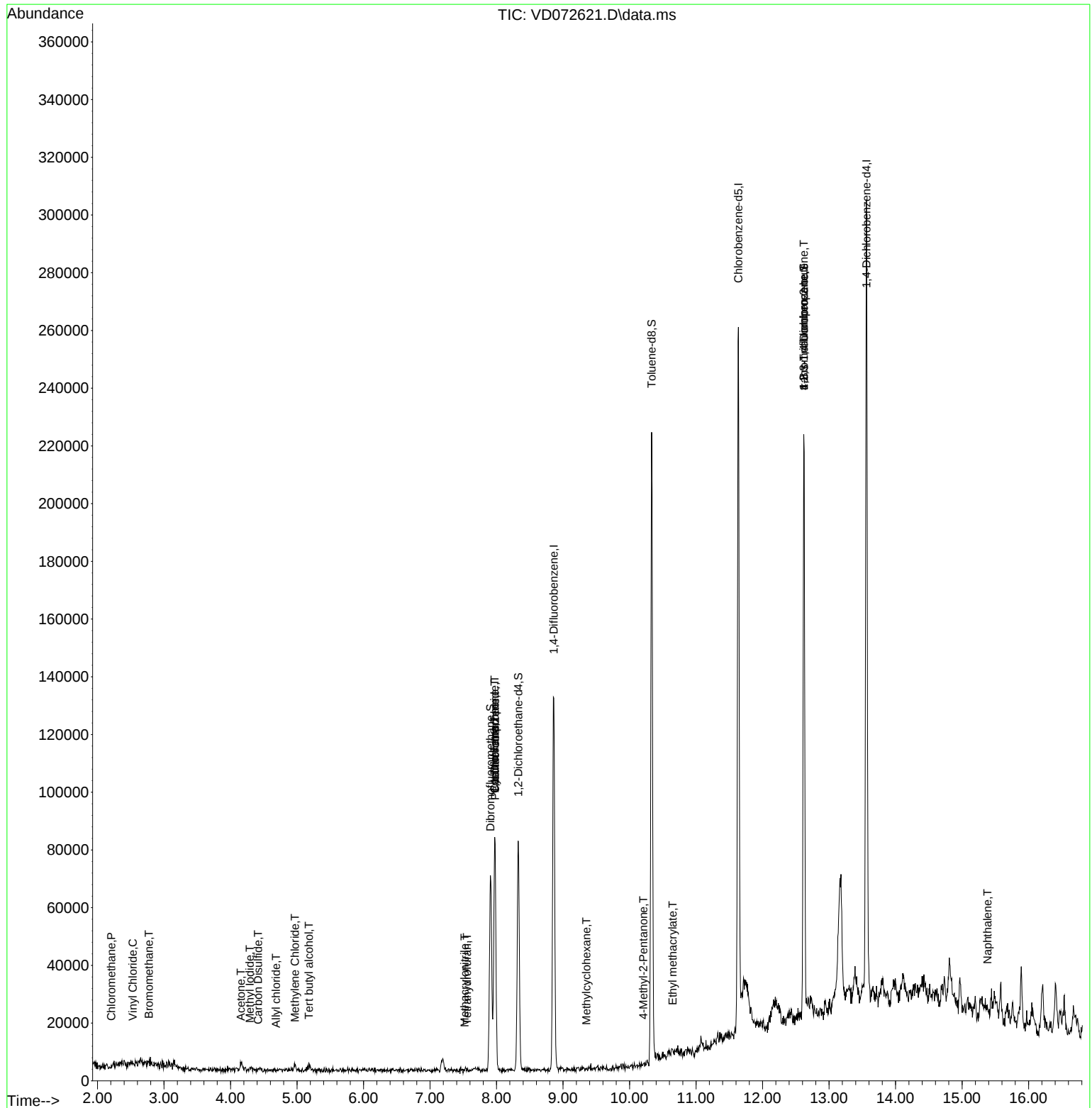
Internal Standards						
1) Pentafluorobenzene	7.979	168	59260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	114191	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	145300	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	76560	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	63845	89.061	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 178.120%#	
35) Dibromofluoromethane	7.908	113	50963	57.428	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 114.860%	
50) Toluene-d8	10.332	98	149928	48.603	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 97.200%	
62) 4-Bromofluorobenzene	12.620	95	70117	58.202	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 116.400%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.209	50	504	1.159	ug/l #	40
4) Vinyl Chloride	2.532	62	58	1.064	ug/l #	43
5) Bromomethane	2.773	94	671	2.002	ug/l #	74
10) Methyl Iodide	4.291	142	926	5.081	ug/l #	38
11) Tert butyl alcohol	5.179	59	1472	38.883	ug/l #	74
14) Allyl chloride	4.685	41	107	1.239	ug/l #	22
16) Acetone	4.156	43	4346	32.513	ug/l #	83
17) Carbon Disulfide	4.414	76	88	3.697	ug/l #	74
20) Methylene Chloride	4.967	84	1046	1.314	ug/l #	47
29) Tetrahydrofuran	7.555	42	114	1.021	ug/l #	38
31) Cyclohexane	7.973	56	1214	1.295	ug/l #	39
36) 1,1-Dichloropropene	7.973	75	5155	5.567	ug/l #	51
38) Carbon Tetrachloride	7.973	117	6161	5.039	ug/l #	22
39) Methylcyclohexane	9.350	83	98	2.947	ug/l #	21
41) Methacrylonitrile	7.520	41	176	2.277	ug/l #	27
51) 4-Methyl-2-Pentanone	10.208	43	627	1.296	ug/l #	39
56) Ethyl methacrylate	10.649	69	522	1.795	ug/l #	18
76) 1,2,3-Trichloropropane	12.620	75	34060	40.790	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.620	75	34060	100.091	ug/l #	8
95) Naphthalene	15.384	128	3608	1.183	ug/l #	96

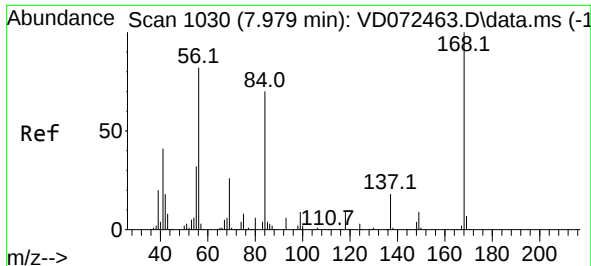
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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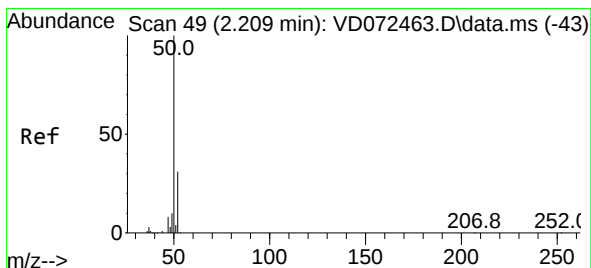
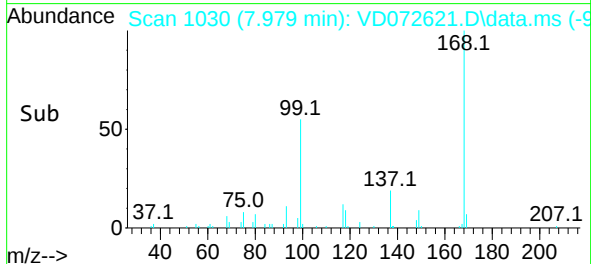
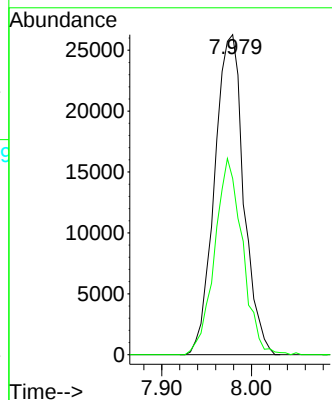
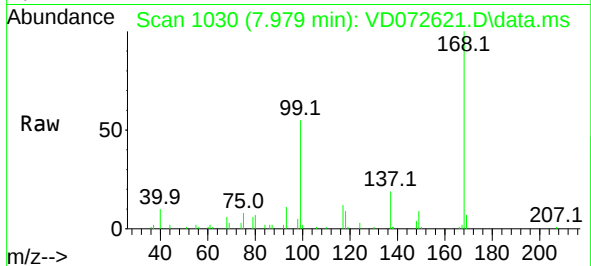




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

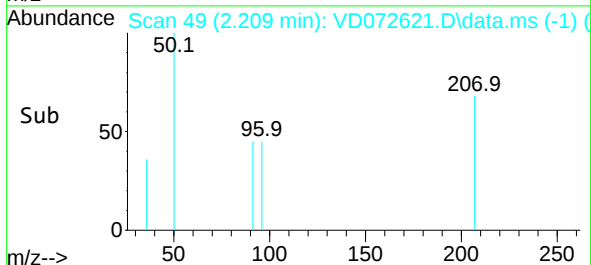
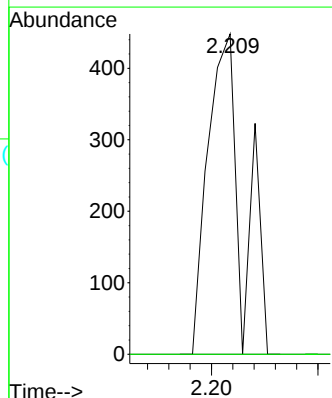
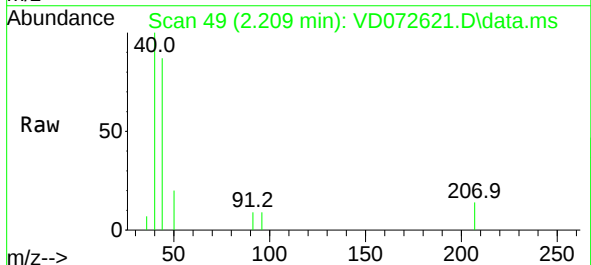
Instrument :
MSVOA_D
ClientSampleId :
HD-01-041822RE

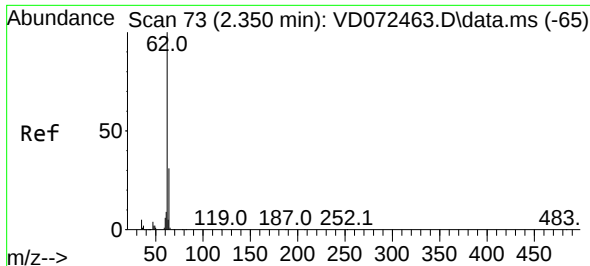
Tgt Ion:168 Resp: 59260
Ion Ratio Lower Upper
168 100
99 55.1 49.8 74.6



#3
Chloromethane
Concen: 1.159 ug/l
RT: 2.209 min Scan# 49
Delta R.T. 0.000 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

Tgt Ion: 50 Resp: 504
Ion Ratio Lower Upper
50 100
52 0.0 27.4 41.0#

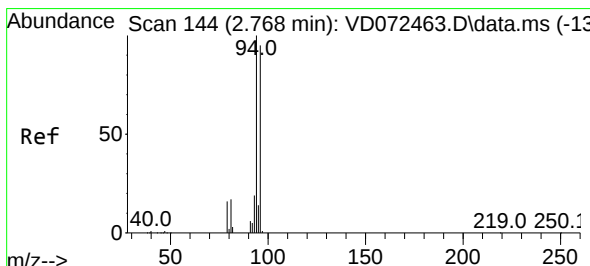
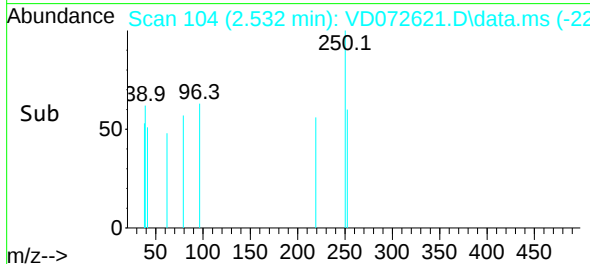
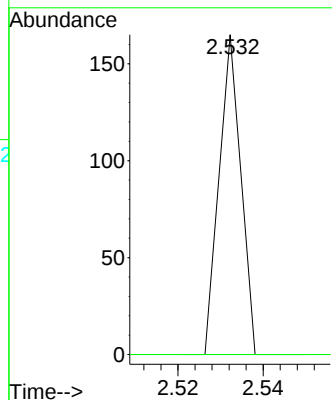
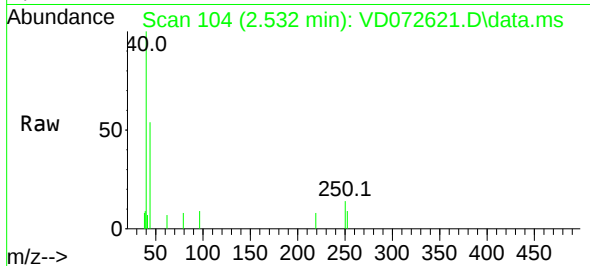




#4
 Vinyl Chloride
 Concen: 1.064 ug/l
 RT: 2.532 min Scan# 104
 Delta R.T. 0.182 min
 Lab File: VD072621.D
 Acq: 19 Apr 2022 13:28

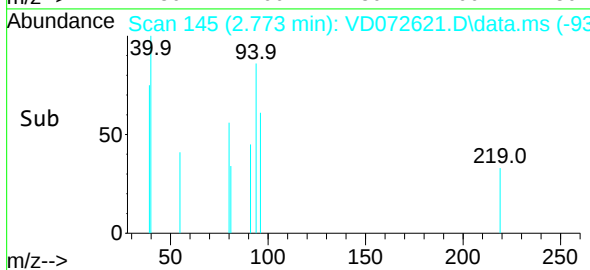
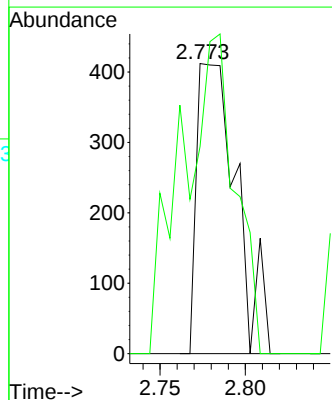
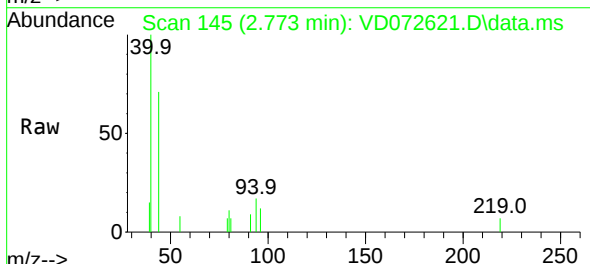
Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-041822RE

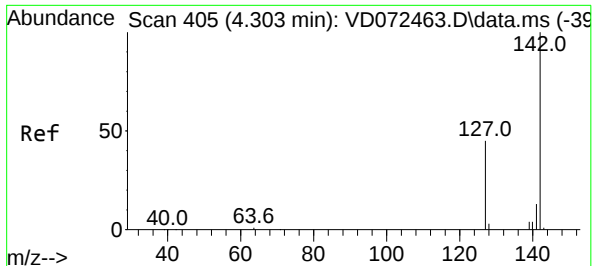
Tgt Ion: 62 Resp: 58
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.4 38.0#



#5
 Bromomethane
 Concen: 2.002 ug/l
 RT: 2.773 min Scan# 145
 Delta R.T. 0.006 min
 Lab File: VD072621.D
 Acq: 19 Apr 2022 13:28

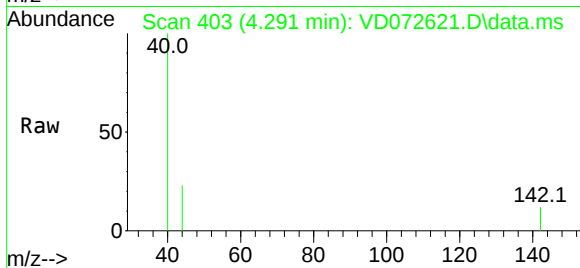
Tgt Ion: 94 Resp: 671
 Ion Ratio Lower Upper
 94 100
 96 71.4 77.6 116.4#



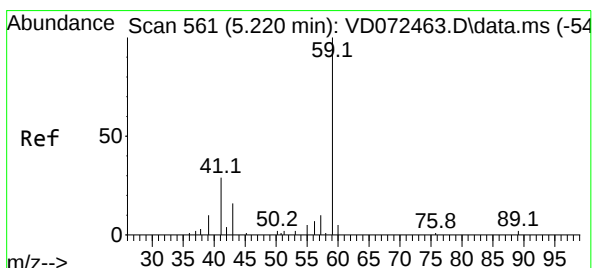
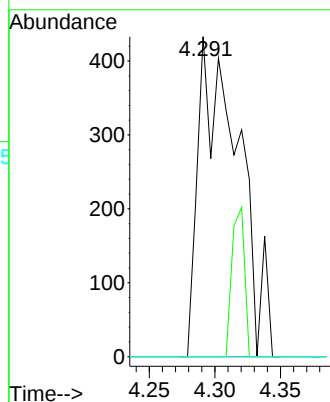
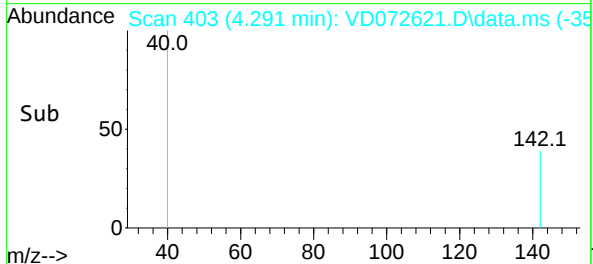


#10
Methyl Iodide
Concen: 5.081 ug/l
RT: 4.291 min Scan# 403
Delta R.T. -0.012 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

Instrument :
MSVOA_D
ClientSampleId :
HD-01-041822RE

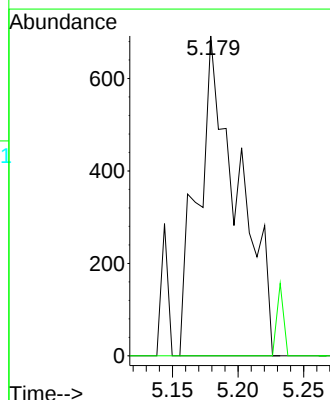
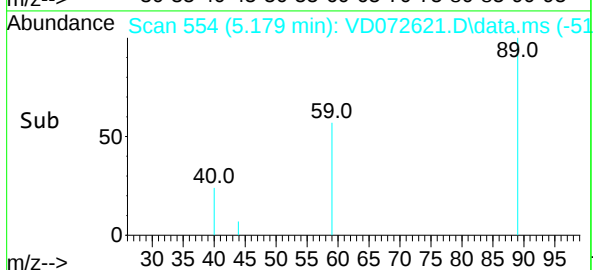
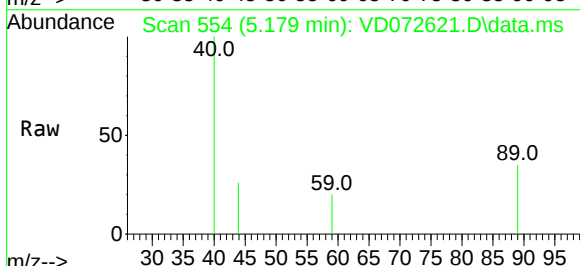


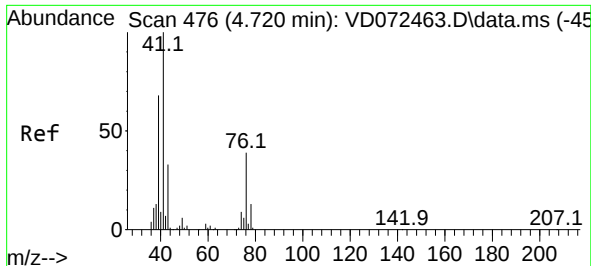
Tgt Ion:142 Resp: 926
Ion Ratio Lower Upper
142 100
127 0.0 37.3 55.9#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 38.883 ug/l
RT: 5.179 min Scan# 554
Delta R.T. -0.041 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

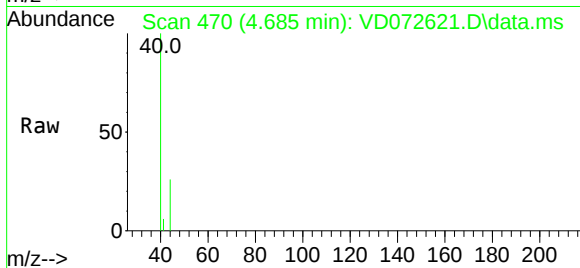
Tgt Ion: 59 Resp: 1472
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



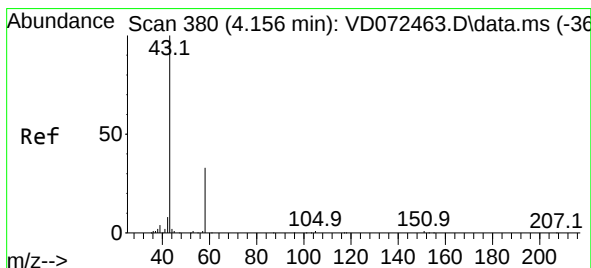
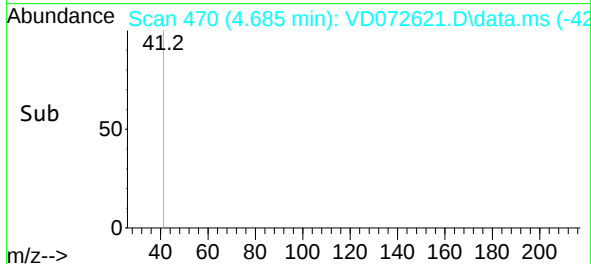
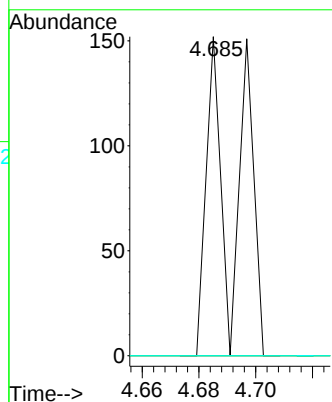


#14
 Allyl chloride
 Concen: 1.239 ug/l
 RT: 4.685 min Scan# 41
 Delta R.T. -0.035 min
 Lab File: VD072621.D
 Acq: 19 Apr 2022 13:28

Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-041822RE

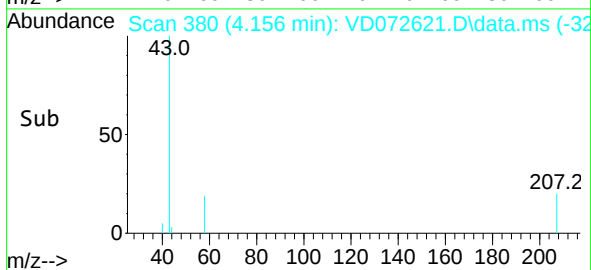
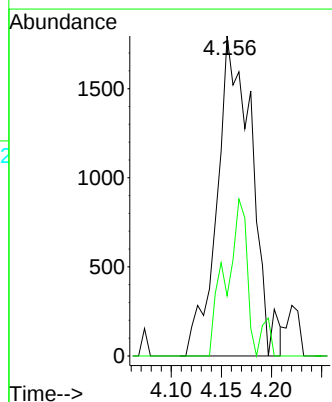
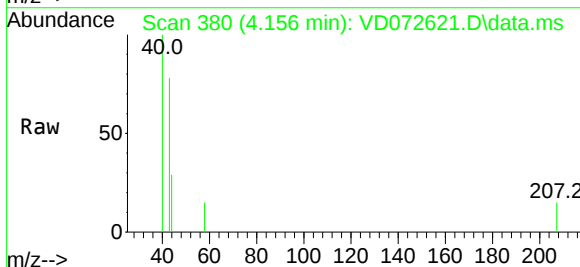


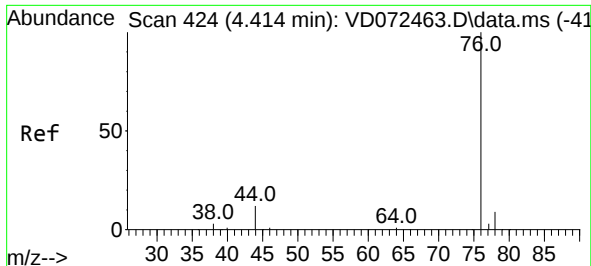
Tgt Ion: 41 Resp: 107
 Ion Ratio Lower Upper
 41 100
 39 0.0 59.3 88.9#
 76 0.0 25.7 38.5#



#16
 Acetone
 Concen: 32.513 ug/l
 RT: 4.156 min Scan# 380
 Delta R.T. 0.000 min
 Lab File: VD072621.D
 Acq: 19 Apr 2022 13:28

Tgt Ion: 43 Resp: 4346
 Ion Ratio Lower Upper
 43 100
 58 18.8 22.1 33.1#

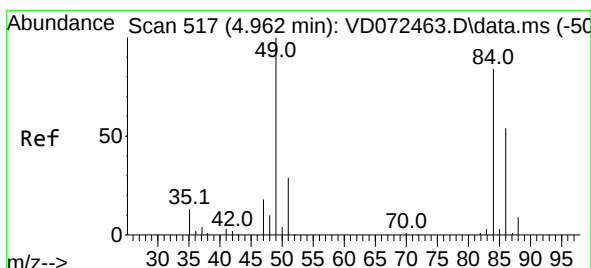
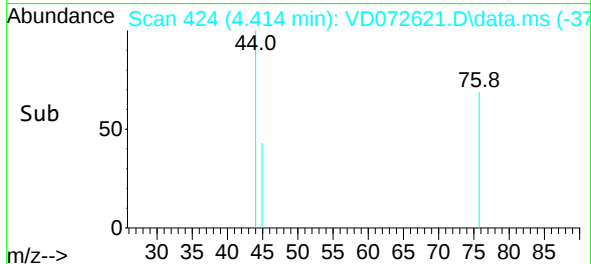
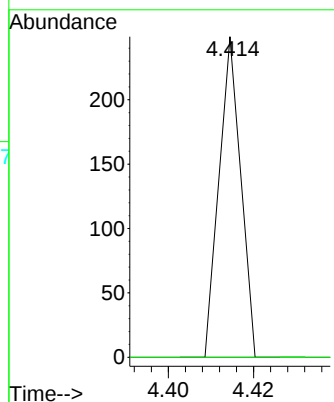
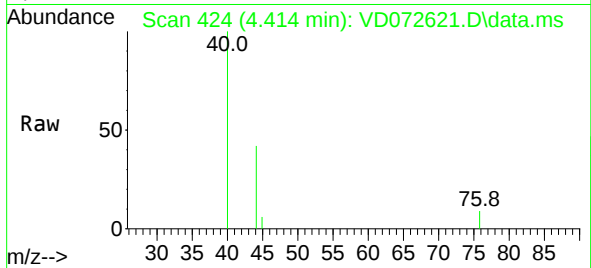




#17
Carbon Disulfide
Concen: 3.697 ug/l
RT: 4.414 min Scan# 41
Delta R.T. 0.000 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

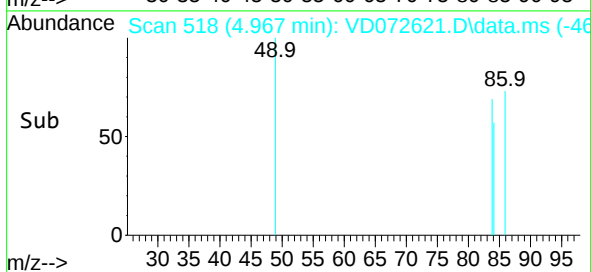
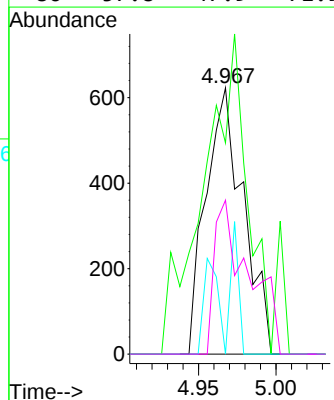
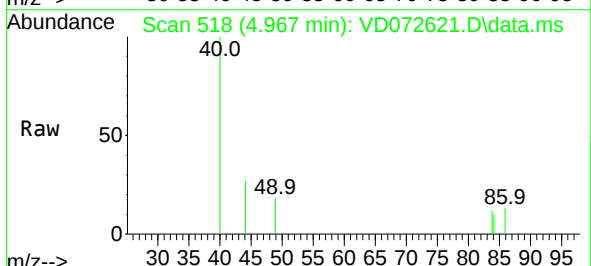
Instrument :
MSVOA_D
ClientSampleId :
HD-01-041822RE

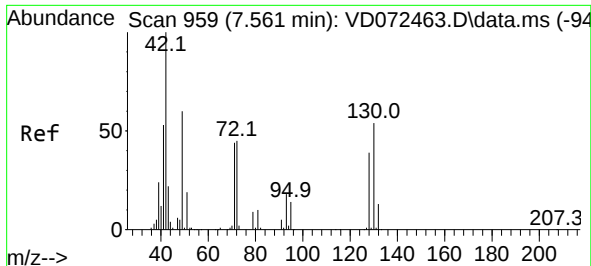
Tgt Ion: 76 Resp: 88
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#



#20
Methylene Chloride
Concen: 1.314 ug/l
RT: 4.967 min Scan# 518
Delta R.T. 0.006 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

Tgt Ion: 84 Resp: 1046
Ion Ratio Lower Upper
84 100
49 53.9 112.8 169.2#
51 0.0 32.6 48.8#
86 57.8 47.9 71.9





#29

Tetrahydrofuran

Concen: 1.021 ug/l

RT: 7.555 min Scan# 91

Delta R.T. -0.006 min

Lab File: VD072621.D

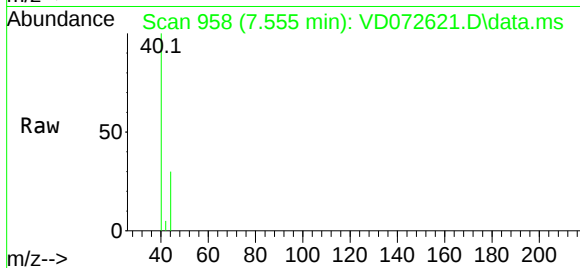
Acq: 19 Apr 2022 13:28

Instrument :

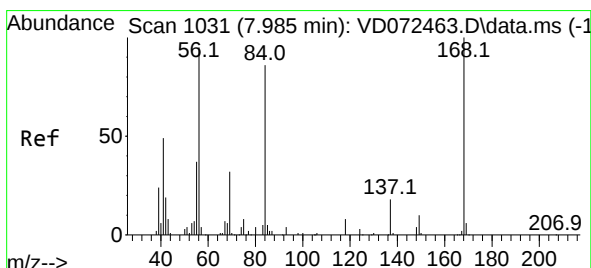
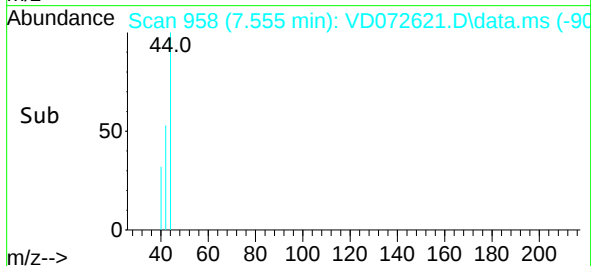
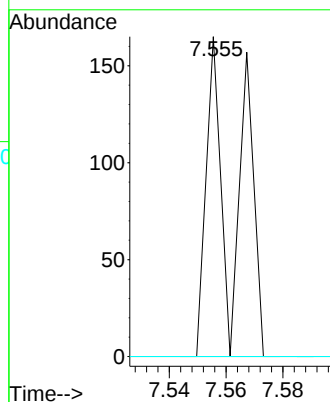
MSVOA_D

ClientSampleId :

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Tgt Ion:	42	Resp:	114
Ion Ratio	Lower	Upper	
42	100		
72	0.0	30.7	46.1#
71	0.0	28.6	43.0#



#31

Cyclohexane

Concen: 1.295 ug/l

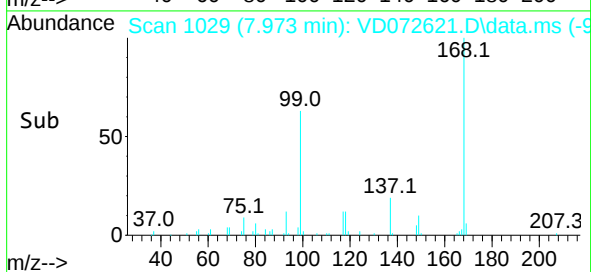
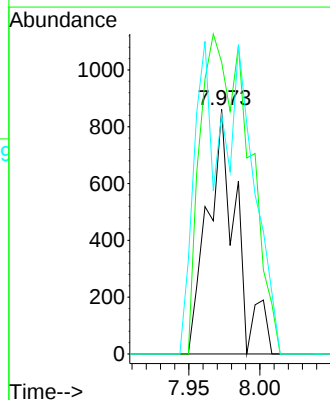
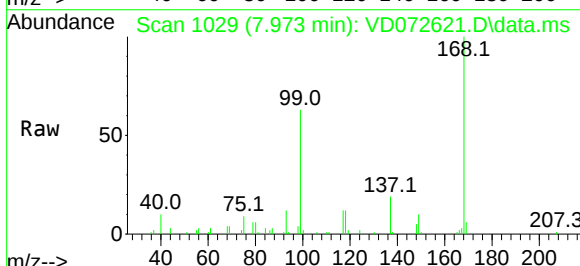
RT: 7.973 min Scan# 1029

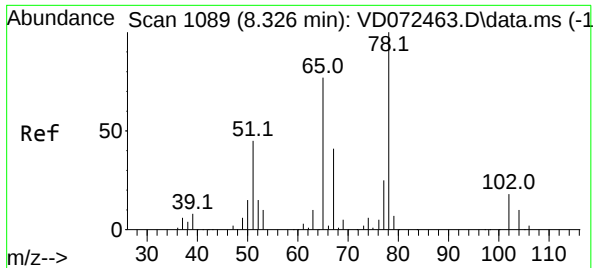
Delta R.T. -0.012 min

Lab File: VD072621.D

Acq: 19 Apr 2022 13:28

Tgt Ion:	56	Resp:	1214
Ion Ratio	Lower	Upper	
56	100		
69	119.4	25.4	38.2#
84	98.0	63.0	94.4#





#33

1,2-Dichloroethane-d4

Concen: 89.061 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD072621.D

Acq: 19 Apr 2022 13:28

Instrument :

MSVOA_D

ClientSampleId :

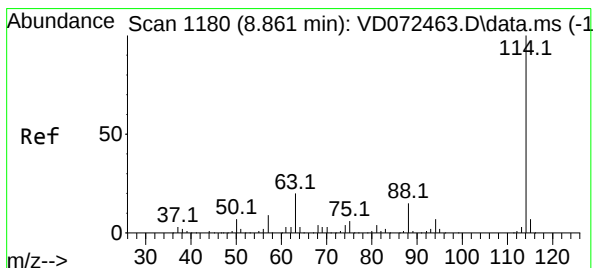
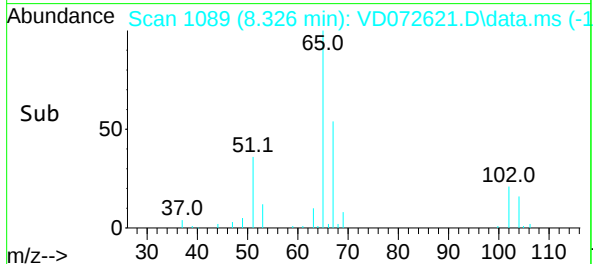
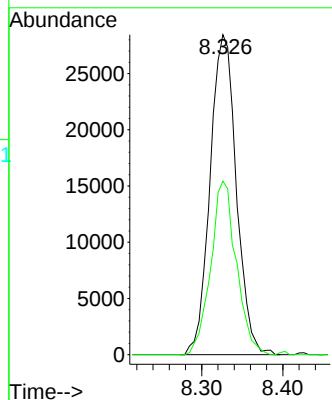
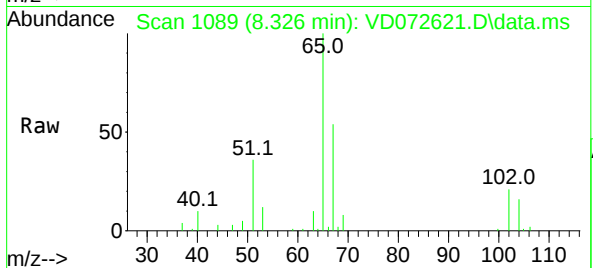
HD-01-041822RE

Tgt Ion: 65 Resp: 63845

Ion Ratio Lower Upper

65 100

67 53.0 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072621.D

Acq: 19 Apr 2022 13:28

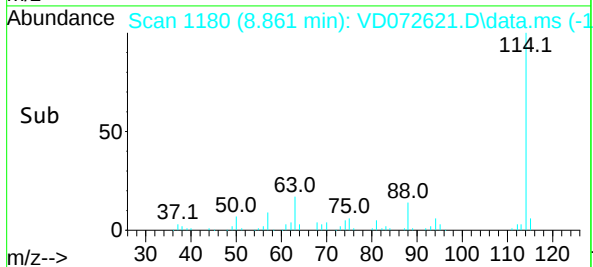
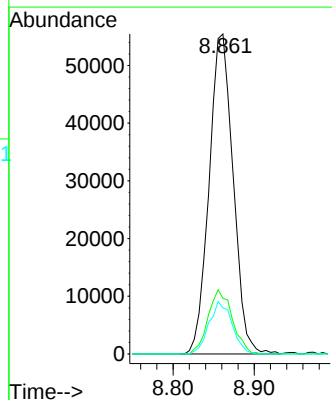
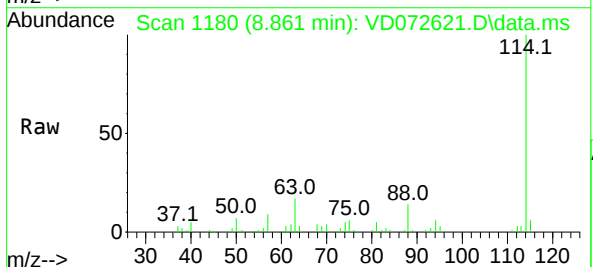
Tgt Ion: 114 Resp: 114191

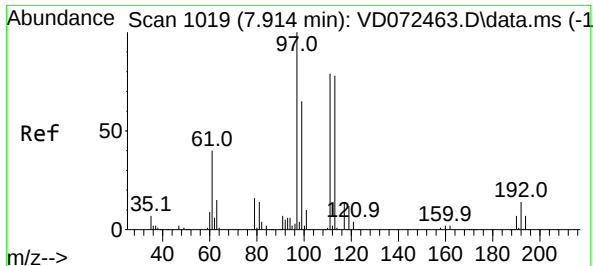
Ion Ratio Lower Upper

114 100

63 17.4 0.0 46.6

88 14.4 0.0 33.2





#35

Dibromofluoromethane

Concen: 57.428 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD072621.D

Acq: 19 Apr 2022 13:28

Instrument :

MSVOA_D

ClientSampleId :

HD-01-041822RE

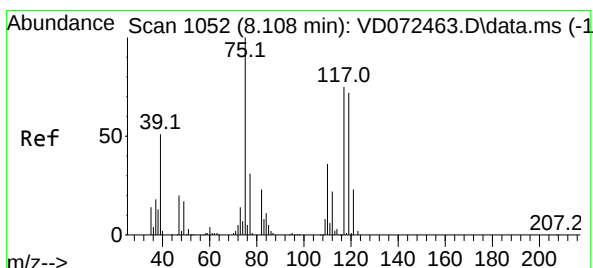
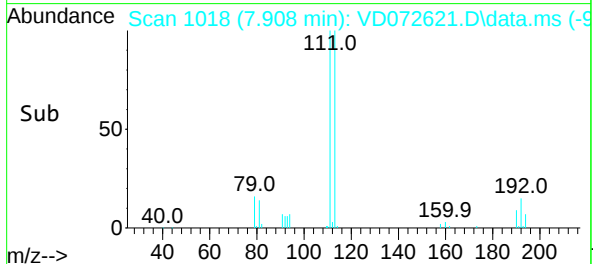
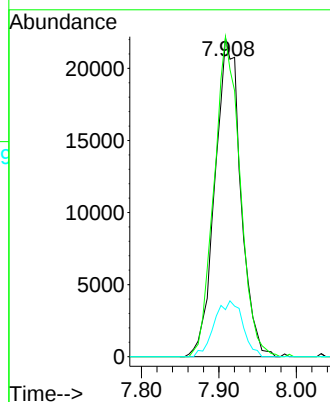
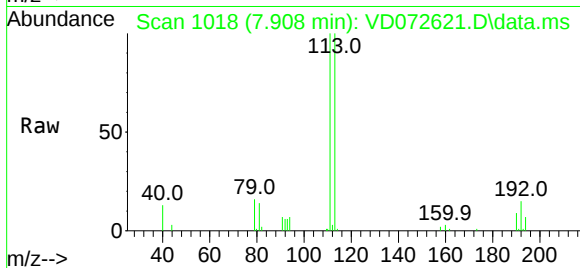
Tgt Ion:113 Resp: 50963

Ion Ratio Lower Upper

113 100

111 101.5 83.8 125.6

192 19.4 14.6 21.8



#36

1,1-Dichloropropene

Concen: 5.567 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD072621.D

Acq: 19 Apr 2022 13:28

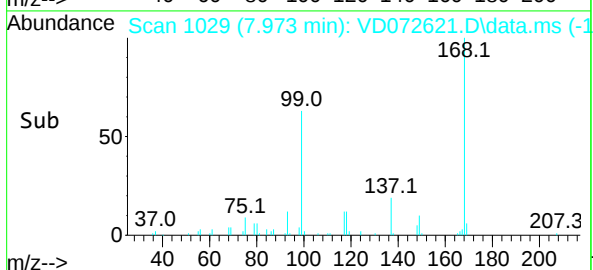
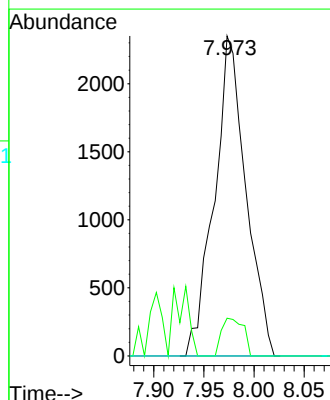
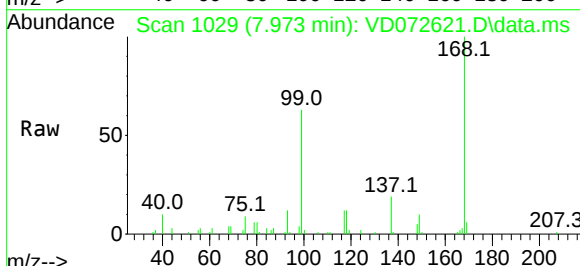
Tgt Ion: 75 Resp: 5155

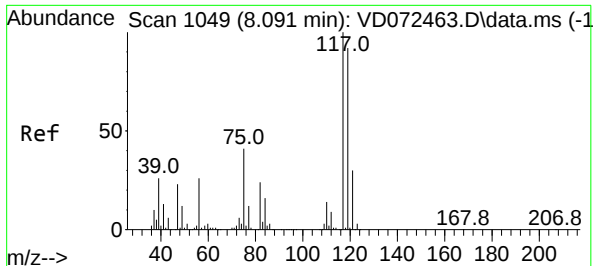
Ion Ratio Lower Upper

75 100

110 8.1 16.4 49.1#

77 0.0 24.2 36.2#

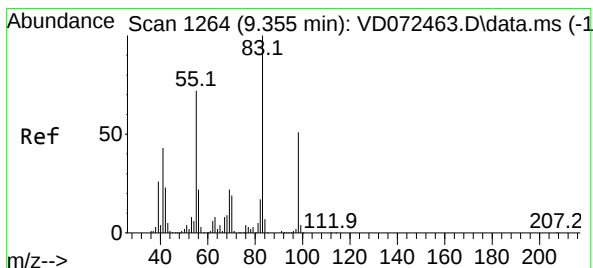
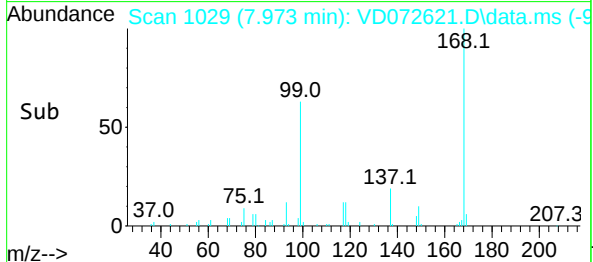
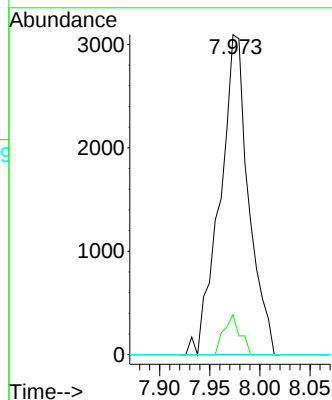
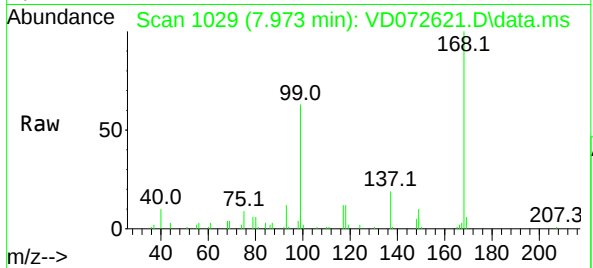




#38
Carbon Tetrachloride
Concen: 5.039 ug/l
RT: 7.973 min Scan# 1049
Delta R.T. -0.118 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

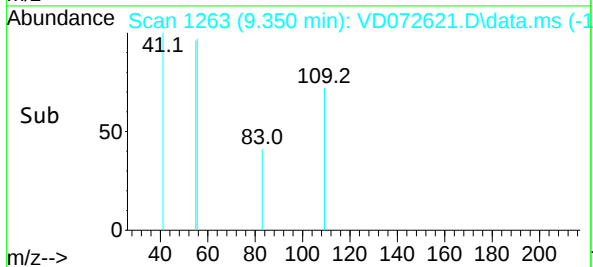
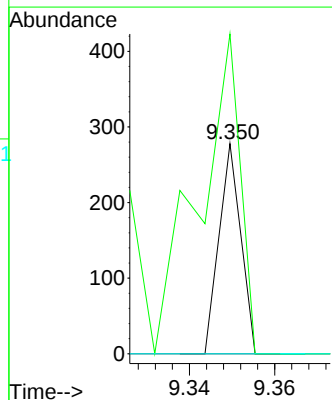
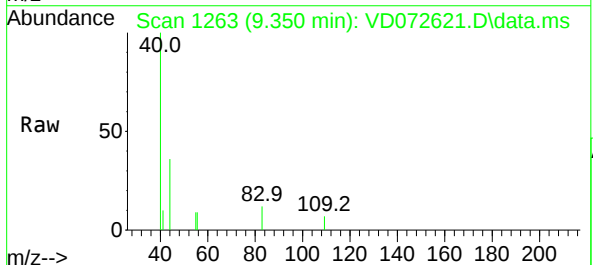
Instrument :
MSVOA_D
ClientSampleId :
HD-01-041822RE

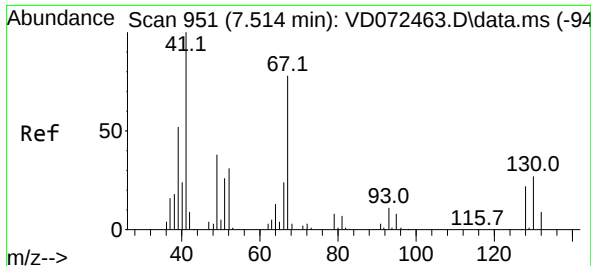
Tgt Ion:117 Resp: 6161
Ion Ratio Lower Upper
117 100
119 12.5 75.8 113.6#
121 0.0 24.5 36.7#



#39
Methylcyclohexane
Concen: 2.947 ug/l
RT: 9.350 min Scan# 1263
Delta R.T. -0.005 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

Tgt Ion: 83 Resp: 98
Ion Ratio Lower Upper
83 100
55 152.2 63.2 94.8#
98 0.0 38.2 57.4#

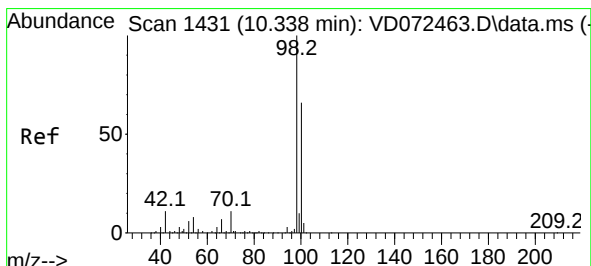
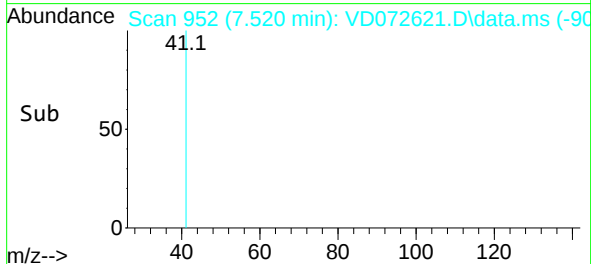
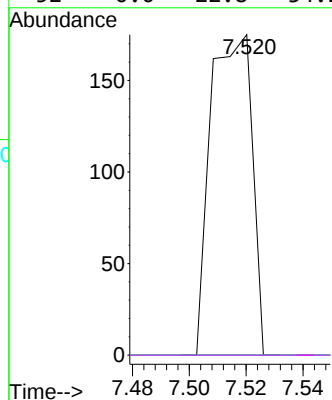
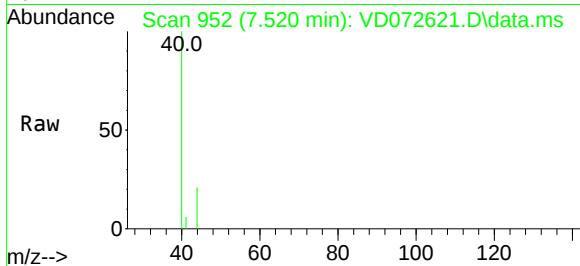




#41
Methacrylonitrile
Concen: 2.277 ug/l
RT: 7.520 min Scan# 91
Delta R.T. 0.006 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

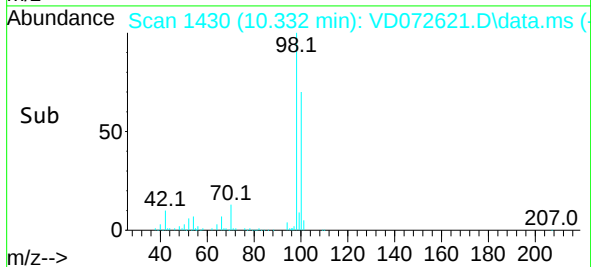
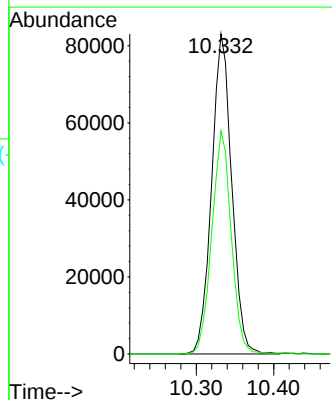
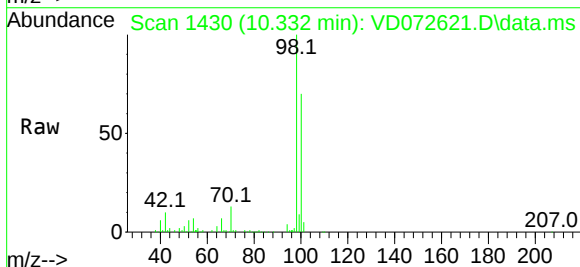
Instrument :
MSVOA_D
ClientSampleId :
HD-01-041822RE

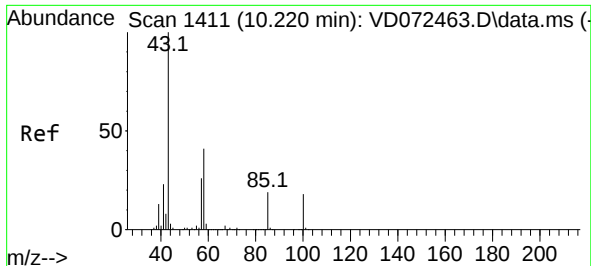
Tgt Ion: 41	Resp: 176
Ion Ratio	Lower Upper
41 100	
39 0.0	44.6 67.0#
67 0.0	48.2 72.4#
52 0.0	22.8 34.2#



#50
Toluene-d8
Concen: 48.603 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

Tgt Ion: 98	Resp: 149928
Ion Ratio	Lower Upper
98 100	
100 67.6	52.4 78.6

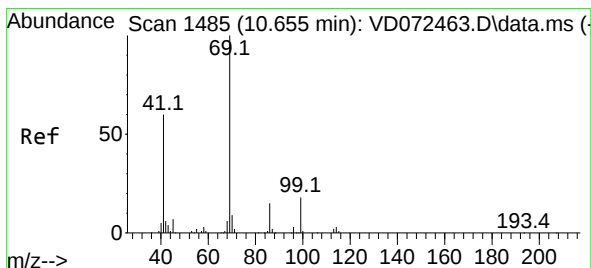
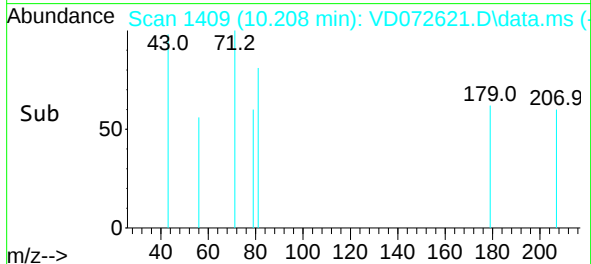
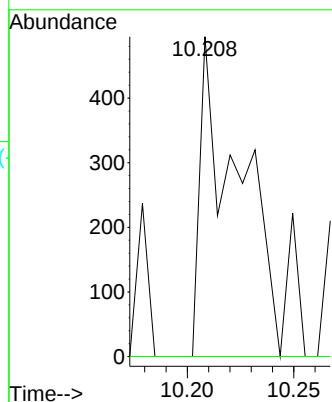
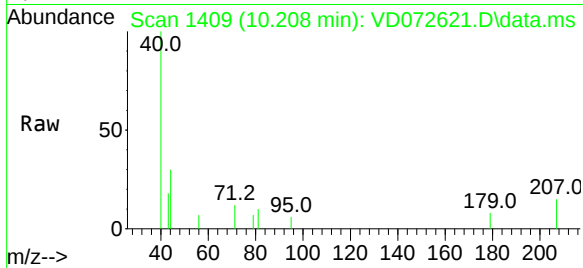




#51
4-Methyl-2-Pentanone
Concen: 1.296 ug/l
RT: 10.208 min Scan# 1409
Delta R.T. -0.012 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

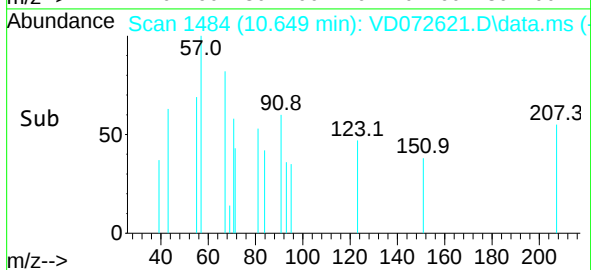
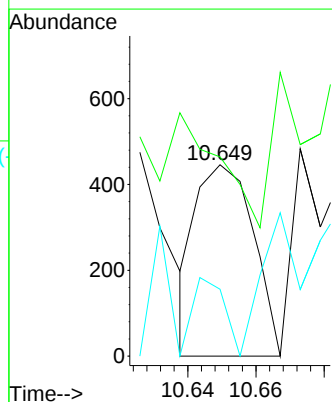
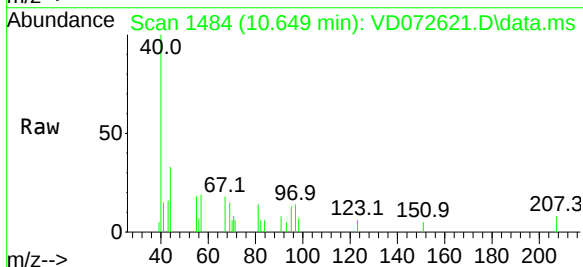
Instrument :
MSVOA_D
ClientSampleId :
HD-01-041822RE

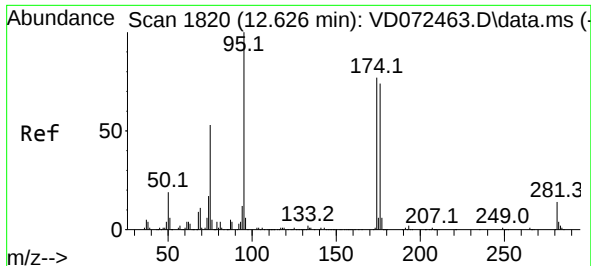
Tgt Ion: 43 Resp: 627
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#



#56
Ethyl methacrylate
Concen: 1.795 ug/l
RT: 10.649 min Scan# 1484
Delta R.T. -0.006 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

Tgt Ion: 69 Resp: 522
Ion Ratio Lower Upper
69 100
41 0.0 63.0 94.6#
39 0.0 33.8 50.8#

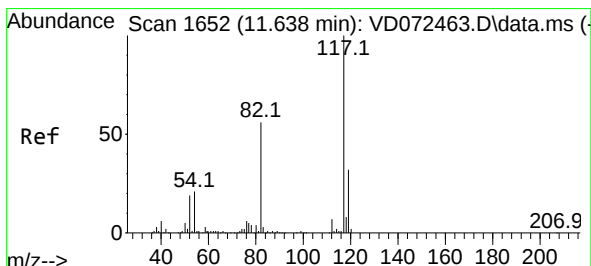
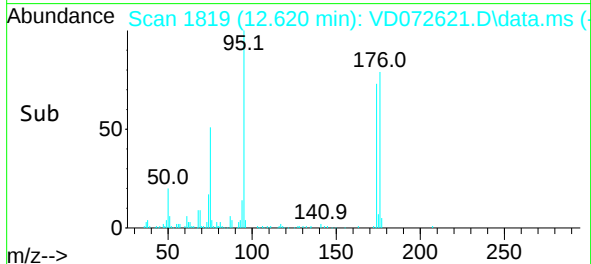
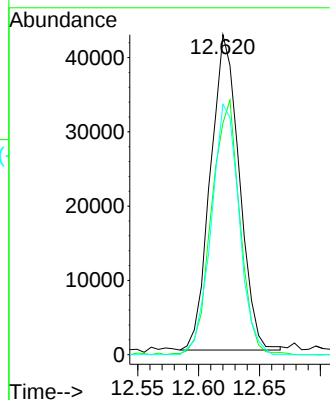
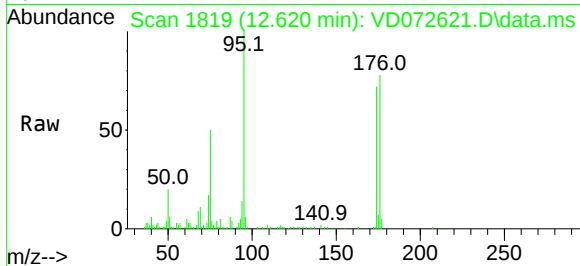




#62
4-Bromofluorobenzene
Concen: 58.202 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

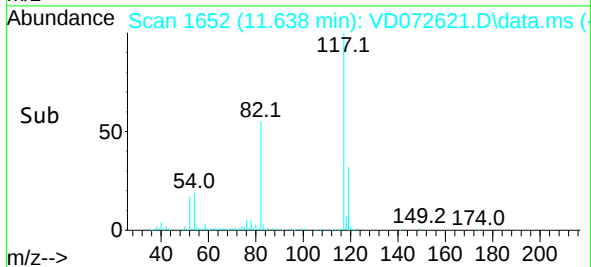
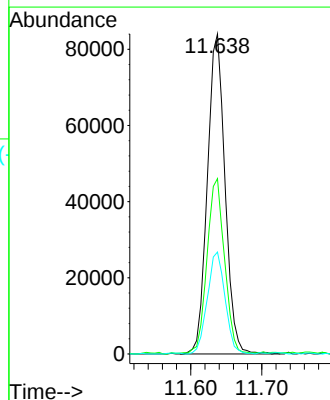
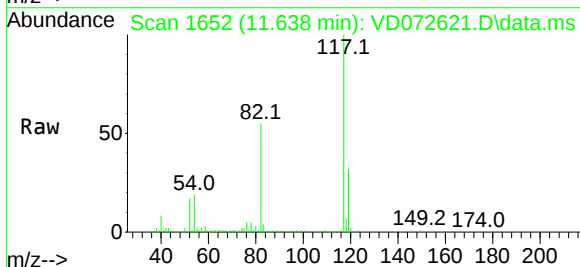
Instrument :
MSVOA_D
ClientSampleId :
HD-01-041822RE

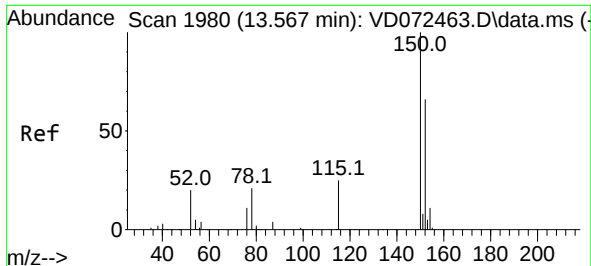
Tgt Ion: 95 Resp: 70117
Ion Ratio Lower Upper
95 100
174 78.7 0.0 152.8
176 76.7 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

Tgt Ion: 117 Resp: 145300
Ion Ratio Lower Upper
117 100
82 54.5 45.3 67.9
119 31.6 26.6 40.0

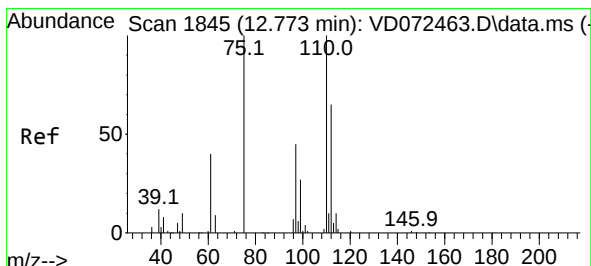
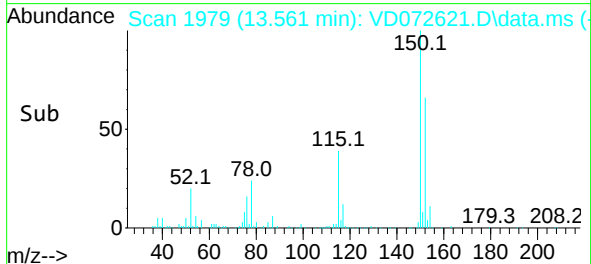
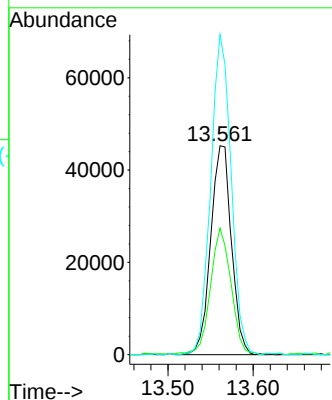
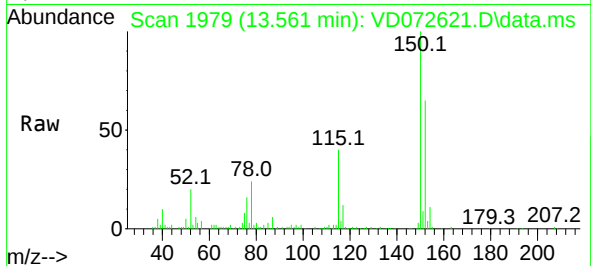




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.561 min Scan# 1819
 Delta R.T. -0.006 min
 Lab File: VD072621.D
 Acq: 19 Apr 2022 13:28

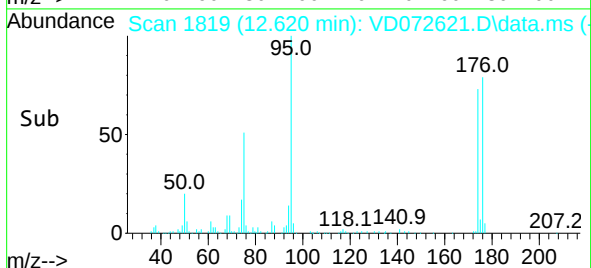
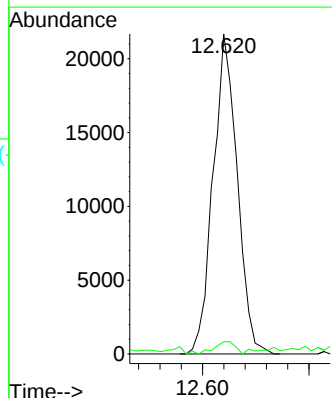
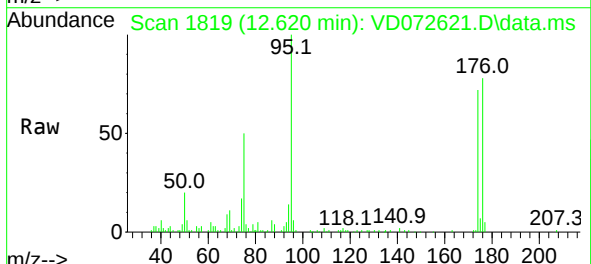
Instrument :
 MSVOA_D
 ClientSampleId :
 HD-01-041822RE

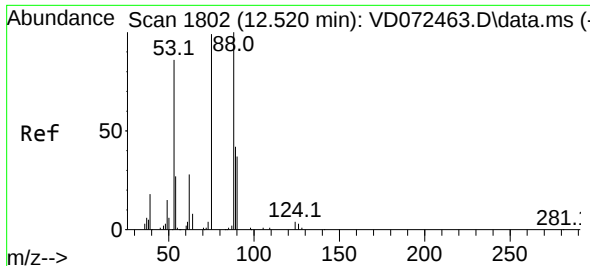
Tgt Ion:152 Resp: 76560
 Ion Ratio Lower Upper
 152 100
 115 60.2 31.3 93.8
 150 150.6 0.0 348.6



#76
 1,2,3-Trichloropropane
 Concen: 40.790 ug/l
 RT: 12.620 min Scan# 1819
 Delta R.T. -0.153 min
 Lab File: VD072621.D
 Acq: 19 Apr 2022 13:28

Tgt Ion: 75 Resp: 34060
 Ion Ratio Lower Upper
 75 100
 77 3.3 0.0 0.0#

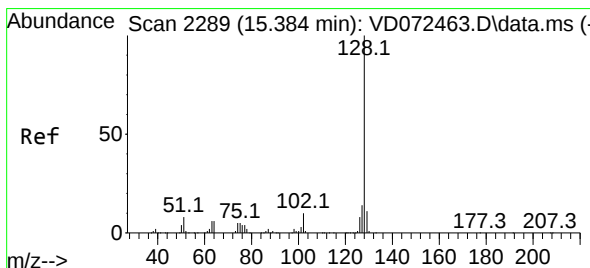
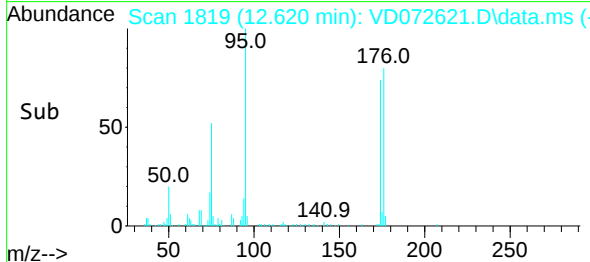
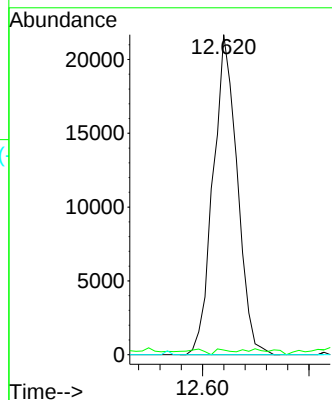
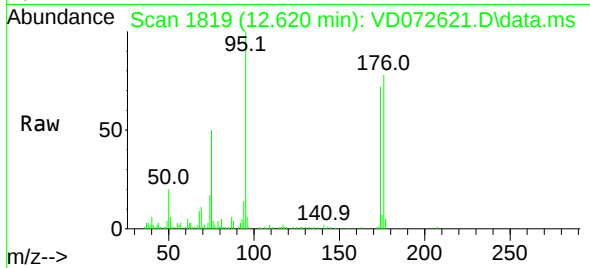




#81
trans-1,4-Dichloro-2-butene
Concen: 100.091 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

Instrument :
MSVOA_D
ClientSampleId :
HD-01-041822RE

Tgt Ion: 75 Resp: 34060
Ion Ratio Lower Upper
75 100
53 1.2 86.5 129.7#
89 0.0 33.9 50.9#



#95
Naphthalene
Concen: 1.183 ug/l
RT: 15.384 min Scan# 2289
Delta R.T. 0.000 min
Lab File: VD072621.D
Acq: 19 Apr 2022 13:28

Tgt Ion: 128 Resp: 3608
Ion Ratio Lower Upper
128 100
127 12.3 10.3 15.5
129 8.0 8.4 12.6#

