

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111121\
 Data File : VD071001.D
 Acq On : 11 Nov 2021 19:46
 Operator : VA/SY
 Sample : M4563-01
 Misc : 5.05G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 12 08:04:43 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D110921S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 10 03:55:51 2021
 Response via : Initial Calibration

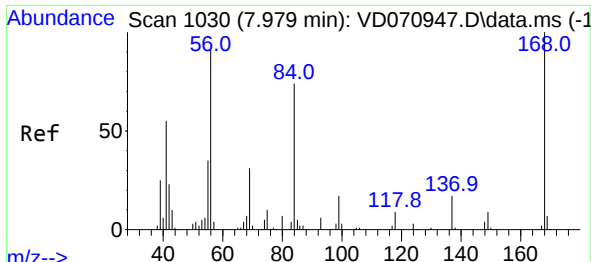
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.979	168	1191	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	2083	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	903	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	127	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	492	38.799	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	77.600%		
35) Dibromofluoromethane	7.914	113	558	47.473	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	94.940%		
50) Toluene-d8	10.332	98	1951	42.384	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	84.760%		
62) 4-Bromofluorobenzene	12.614	95	498	30.047	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	60.100%		
Target Compounds						Qvalue
3) Chloromethane	2.326	50	62	5.120	ug/l #	42
14) Allyl chloride	4.726	41	116	4.924	ug/l #	67
15) Acrylonitrile	5.485	53	58	19.542	ug/l #	19
16) Acetone	4.138	43	220	78.953	ug/l #	40
18) Methyl Acetate	4.697	43	56	5.148	ug/l #	51
22) Diisopropyl ether	6.203	45	61	1.303	ug/l #	40
23) Vinyl Acetate	6.326	43	63	23.291	ug/l #	72
25) 2-Butanone	7.226	43	56	31.990	ug/l #	45
27) cis-1,2-Dichloroethene	7.273	96	57	3.847	ug/l #	1
29) Tetrahydrofuran	7.479	42	55	21.347	ug/l #	34
31) Cyclohexane	7.938	56	54	2.071	ug/l #	19
37) Ethyl Acetate	7.332	43	65	7.661	ug/l #	66
41) Methacrylonitrile	7.491	41	54	11.566	ug/l #	1
43) Isopropyl Acetate	8.432	43	261	14.534	ug/l #	47
47) Bromodichloromethane	9.814	83	55	3.084	ug/l #	26
48) Methyl methacrylate	9.467	41	79	8.968	ug/l #	15
51) 4-Methyl-2-Pentanone	10.232	43	59	6.777	ug/l #	34
59) 2-Hexanone	10.950	43	90	28.312	ug/l #	22
74) N-amyl acetate	12.255	43	2504	957.972	ug/l #	50
75) 1,1,2,2-Tetrachloroethane	12.744	83	56	35.560	ug/l #	1
77) Bromobenzene	12.932	156	115	58.828	ug/l #	1
78) n-propylbenzene	12.808	91	62	5.469	ug/l #	54
79) 2-Chlorotoluene	12.808	91	62	9.592	ug/l #	42
80) 1,3,5-Trimethylbenzene	12.885	105	69	9.160	ug/l #	28
82) 4-Chlorotoluene	13.002	91	55	8.244	ug/l #	42
84) 1,2,4-Trimethylbenzene	13.385	105	1066	144.493	ug/l #	31
85) sec-Butylbenzene	13.385	105	1066	109.268	ug/l	88
86) p-Isopropyltoluene	13.496	119	406	51.827	ug/l #	62
89) n-Butylbenzene	13.838	91	136	17.275	ug/l #	32
90) Hexachloroethane	14.202	117	96	61.928	ug/l #	14

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

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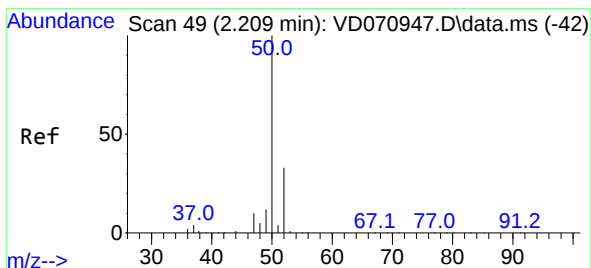
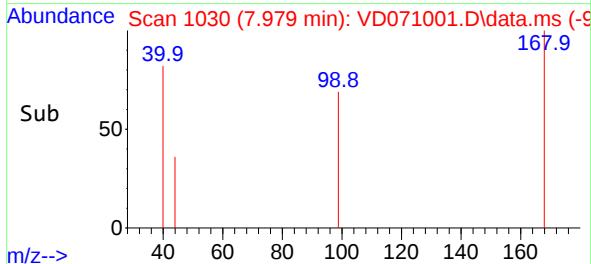
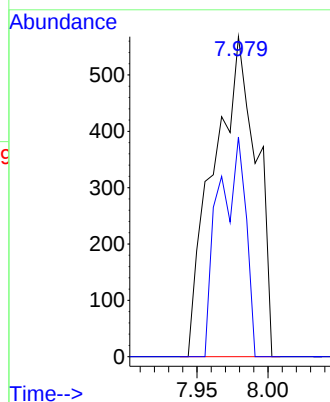
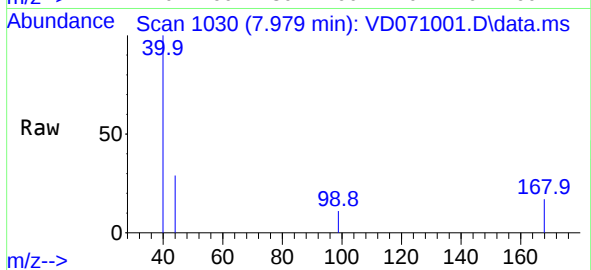




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

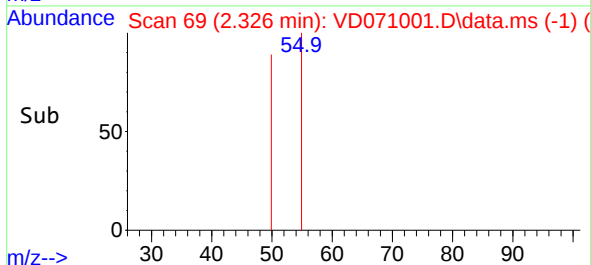
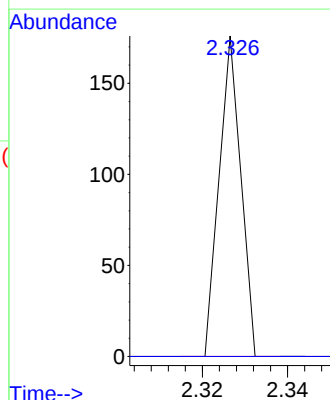
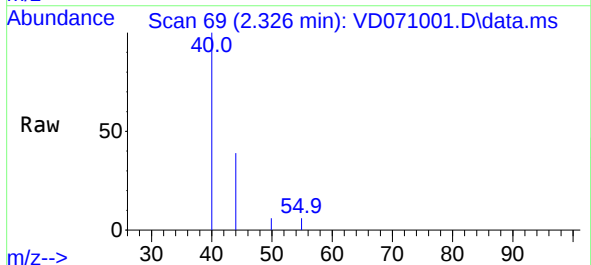
Instrument :
MSVOA_D
ClientSampleId :

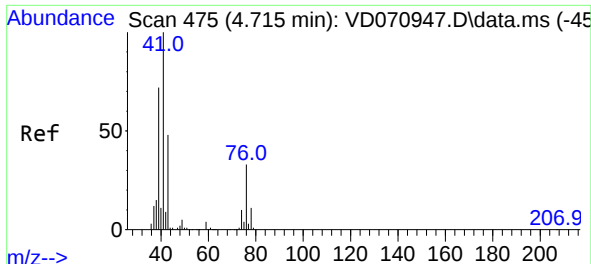
Tgt Ion:168 Resp: 1191
Ion Ratio Lower Upper
168 100
99 68.7 46.6 69.8



#3
Chloromethane
Concen: 5.120 ug/l
RT: 2.326 min Scan# 69
Delta R.T. 0.117 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Tgt Ion: 50 Resp: 62
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#





#14

Allyl chloride

Concen: 4.924 ug/l

RT: 4.726 min Scan# 41

Delta R.T. 0.011 min

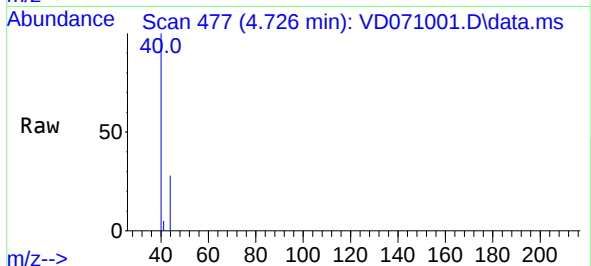
Lab File: VD071001.D

Acq: 11 Nov 2021 19:46

Instrument :

MSVOA_D

ClientSampleId :



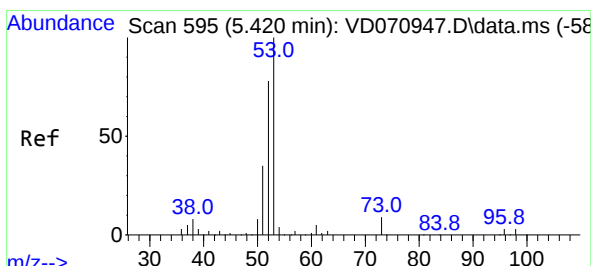
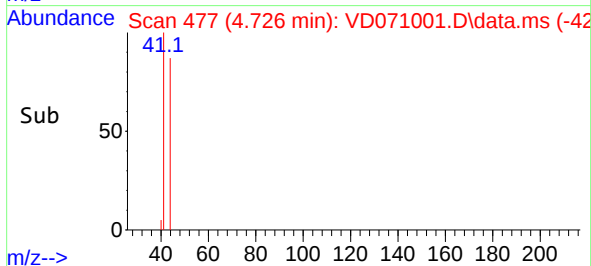
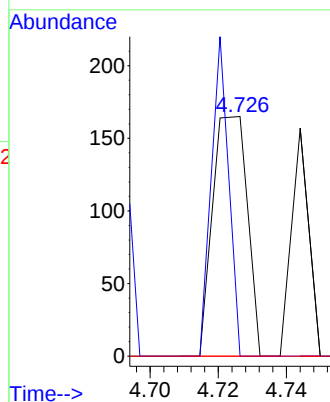
Tgt Ion: 41 Resp: 116

Ion Ratio Lower Upper

41 100

39 67.2 45.6 68.4

76 0.0 30.2 45.4#



#15

Acrylonitrile

Concen: 19.542 ug/l

RT: 5.485 min Scan# 606

Delta R.T. 0.065 min

Lab File: VD071001.D

Acq: 11 Nov 2021 19:46

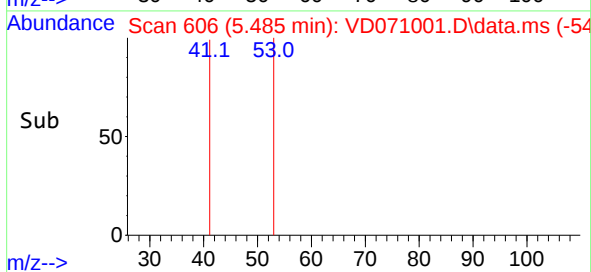
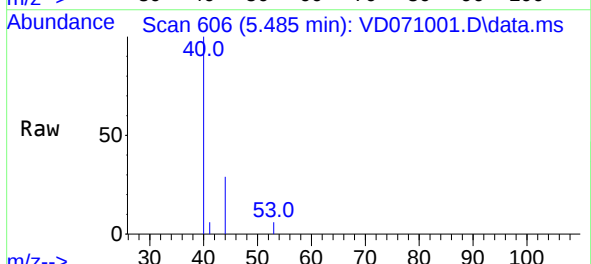
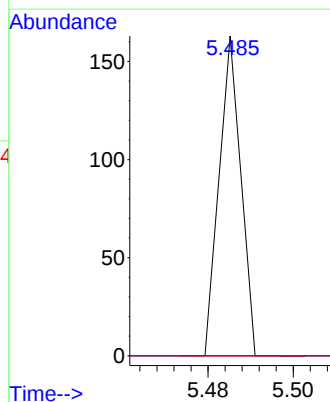
Tgt Ion: 53 Resp: 58

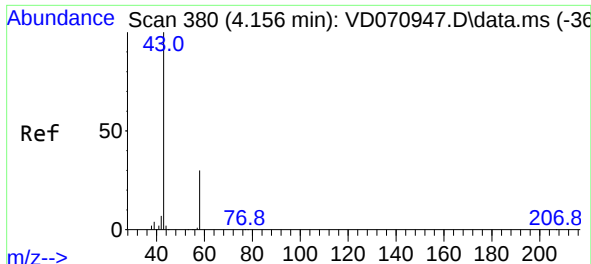
Ion Ratio Lower Upper

53 100

52 0.0 63.8 95.8#

51 0.0 28.5 42.7#

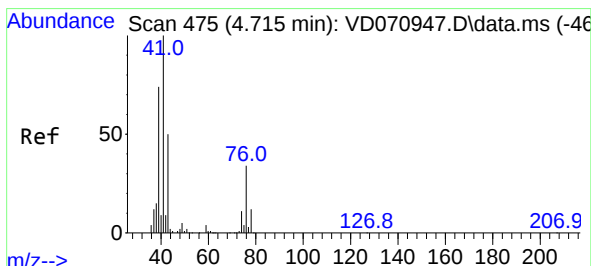
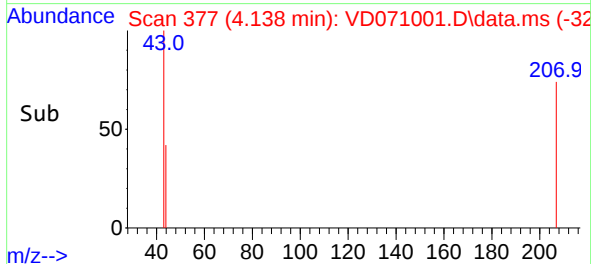
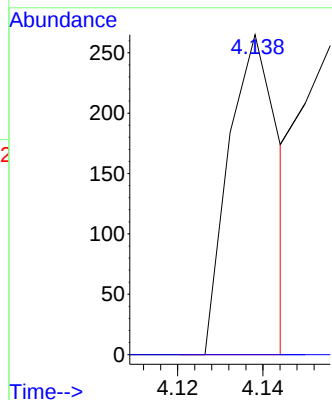
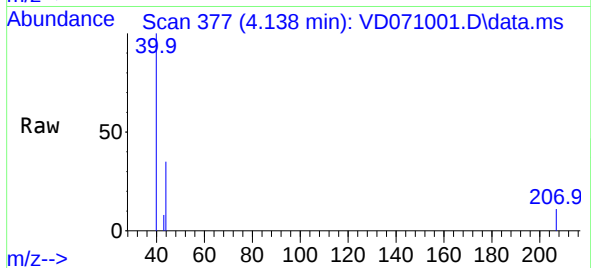




#16
Acetone
Concen: 78.953 ug/l
RT: 4.138 min Scan# 31
Delta R.T. -0.018 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

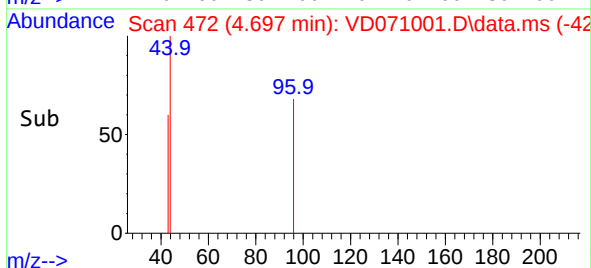
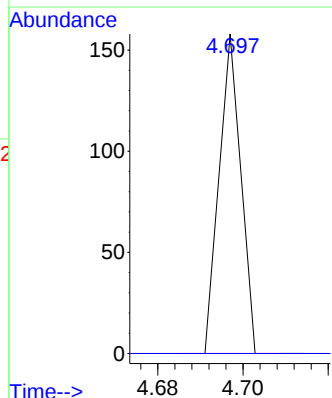
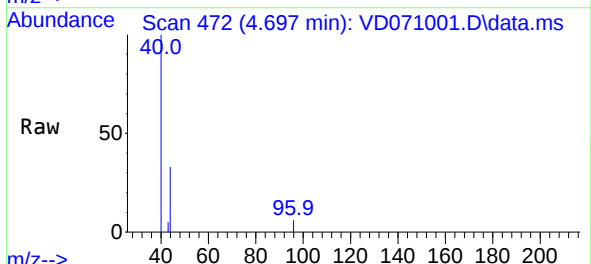
Instrument :
MSVOA_D
ClientSampleId :

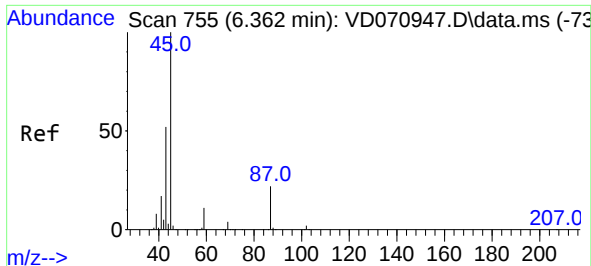
Tgt Ion: 43 Resp: 220
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#18
Methyl Acetate
Concen: 5.148 ug/l
RT: 4.697 min Scan# 472
Delta R.T. -0.018 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

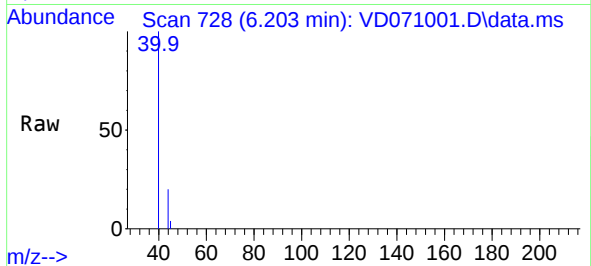
Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



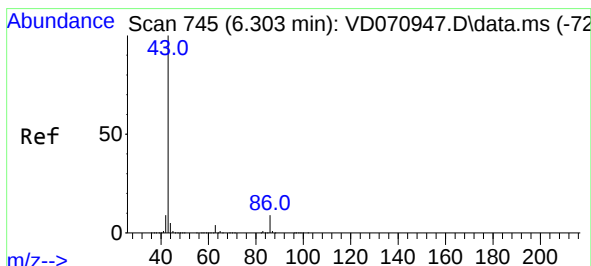
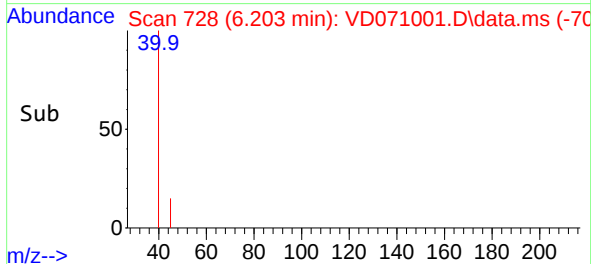
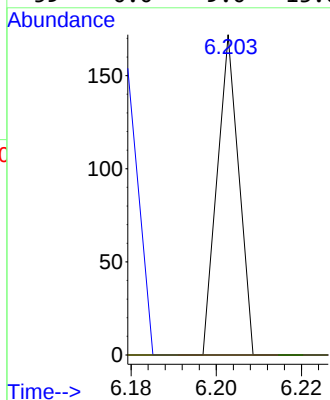


#22
Diisopropyl ether
Concen: 1.303 ug/l
RT: 6.203 min Scan# 71
Delta R.T. -0.159 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Instrument :
MSVOA_D
ClientSampleId :

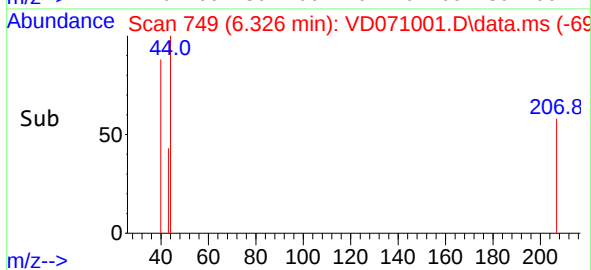
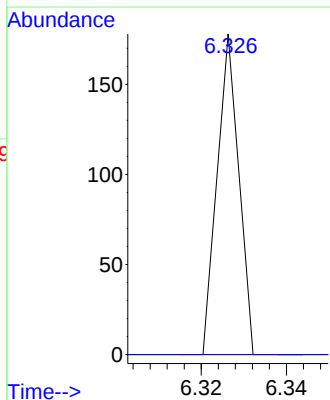
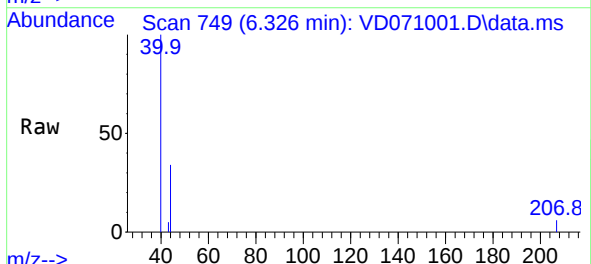


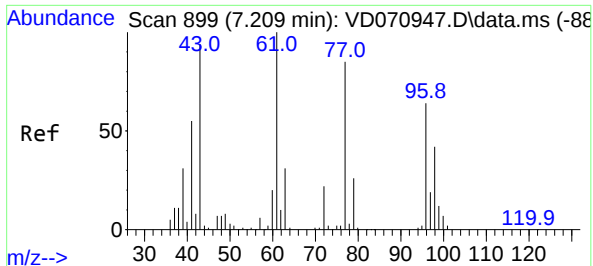
Tgt Ion: 45 Resp: 61
Ion Ratio Lower Upper
45 100
43 0.0 39.6 59.4#
87 0.0 21.2 31.8#
59 0.0 9.0 13.6#



#23
Vinyl Acetate
Concen: 23.291 ug/l
RT: 6.326 min Scan# 749
Delta R.T. 0.023 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Tgt Ion: 43 Resp: 63
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#





#25

2-Butanone

Concen: 31.990 ug/l

RT: 7.226 min Scan# 90

Delta R.T. 0.017 min

Lab File: VD071001.D

Acq: 11 Nov 2021 19:46

Instrument :

MSVOA_D

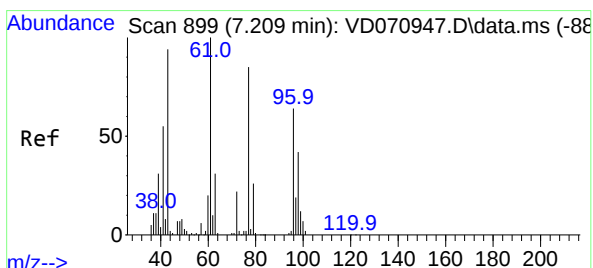
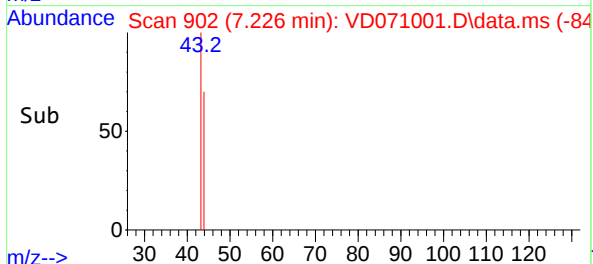
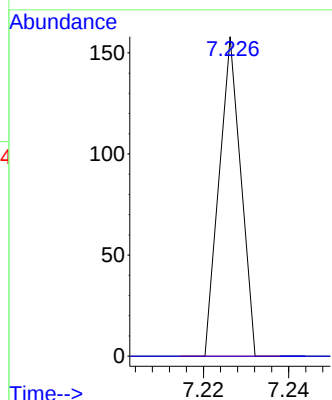
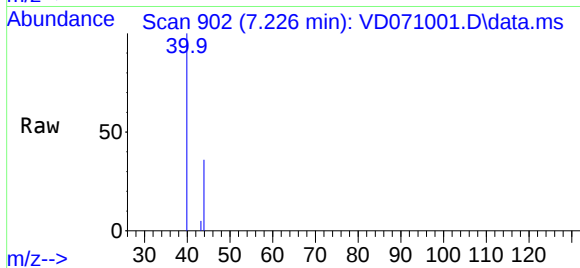
ClientSampleId :

Tgt Ion: 43 Resp: 56

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#



#27

cis-1,2-Dichloroethene

Concen: 3.847 ug/l

RT: 7.273 min Scan# 910

Delta R.T. 0.064 min

Lab File: VD071001.D

Acq: 11 Nov 2021 19:46

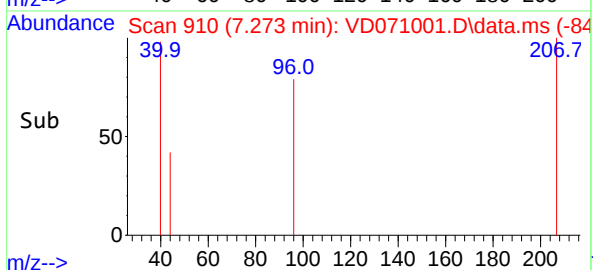
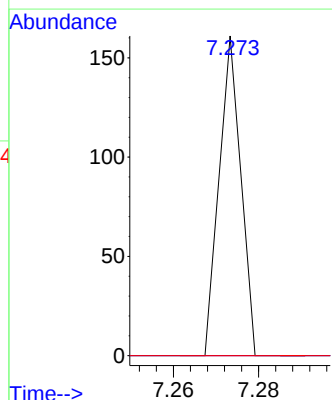
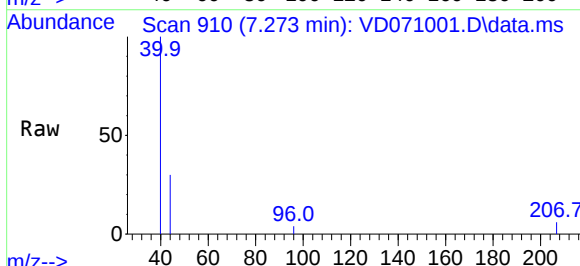
Tgt Ion: 96 Resp: 57

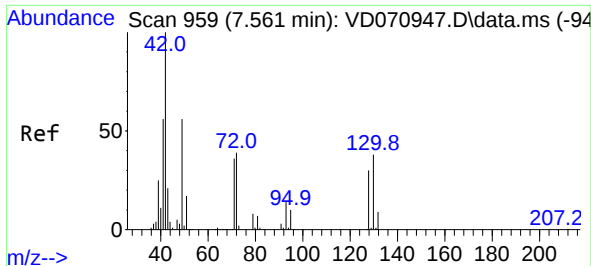
Ion Ratio Lower Upper

96 100

61 0.0 0.0 288.6

98 0.0 0.0 129.2





#29

Tetrahydrofuran

Concen: 21.347 ug/l

RT: 7.479 min Scan# 94

Delta R.T. -0.082 min

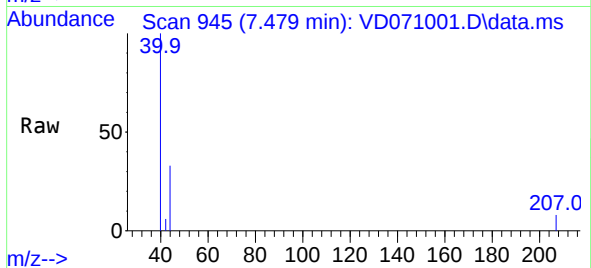
Lab File: VD071001.D

Acq: 11 Nov 2021 19:46

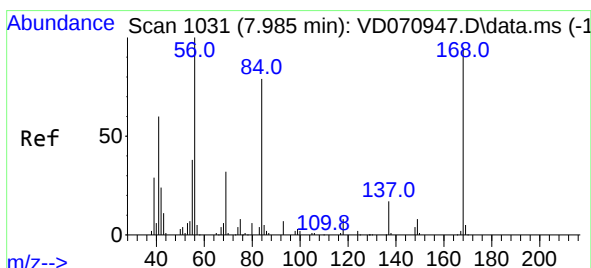
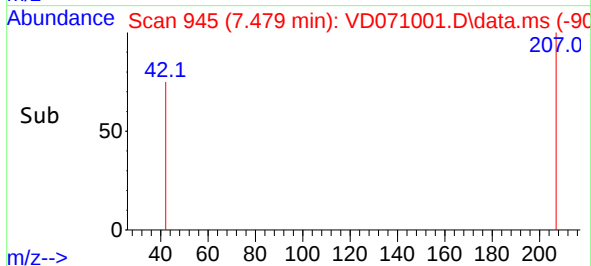
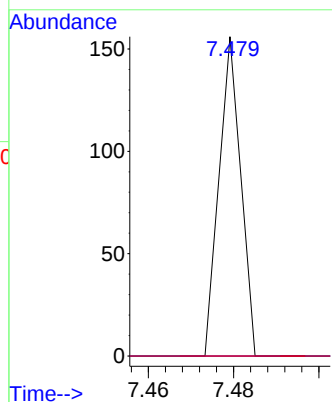
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	42	Resp:	55
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	32.7	49.1#



#31

Cyclohexane

Concen: 2.071 ug/l

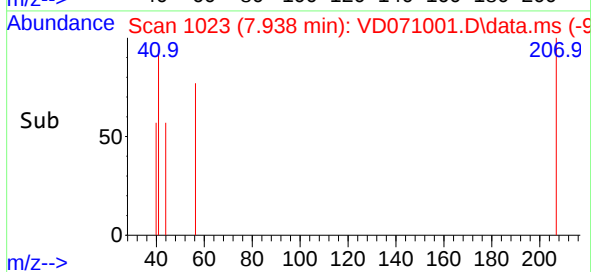
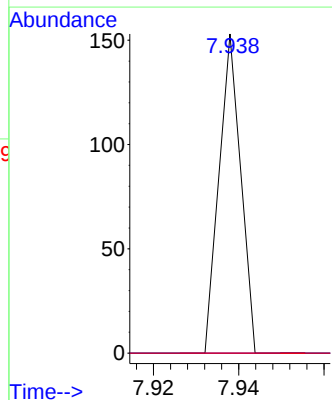
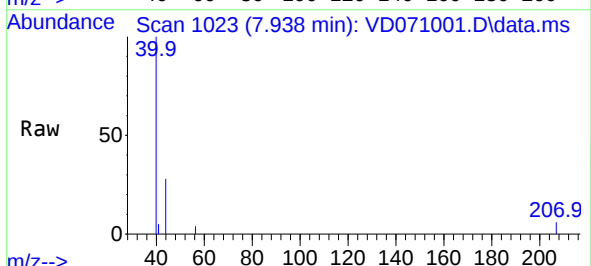
RT: 7.938 min Scan# 1023

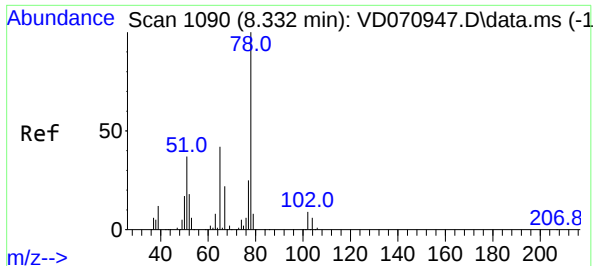
Delta R.T. -0.047 min

Lab File: VD071001.D

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Tgt Ion:	56	Resp:	54
Ion	Ratio	Lower	Upper
56	100		
69	0.0	25.9	38.9#
84	0.0	64.3	96.5#





#33

1,2-Dichloroethane-d4

Concen: 38.799 ug/l

RT: 8.332 min Scan# 110

Delta R.T. 0.000 min

Lab File: VD071001.D

Acq: 11 Nov 2021 19:46

Instrument :

MSVOA_D

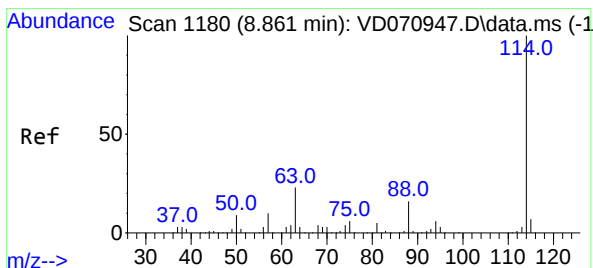
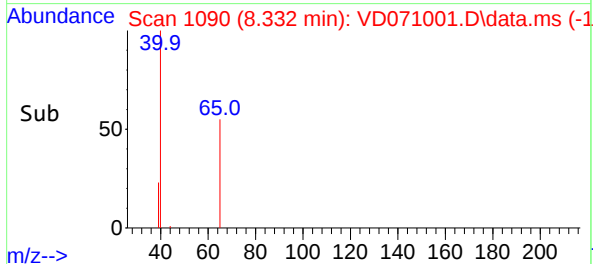
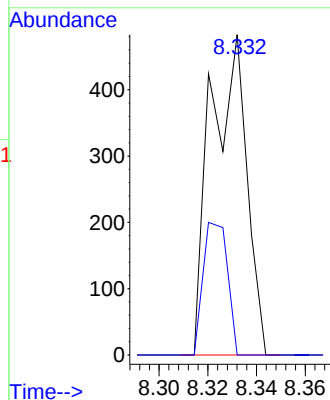
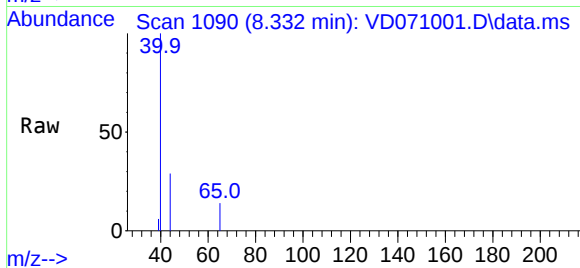
ClientSampleId :

Tgt Ion: 65 Resp: 492

Ion Ratio Lower Upper

65 100

67 28.0 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071001.D

Acq: 11 Nov 2021 19:46

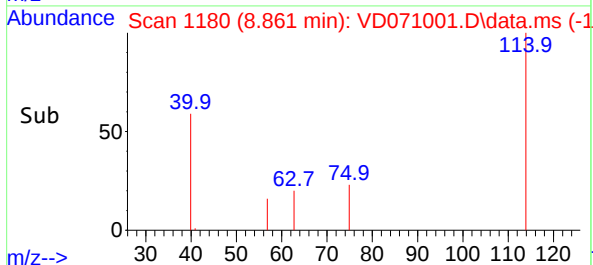
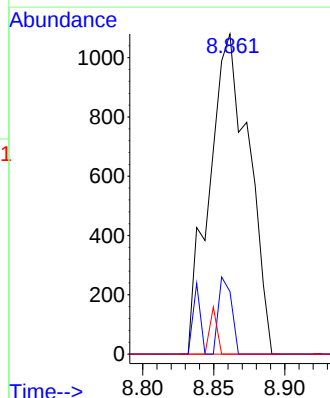
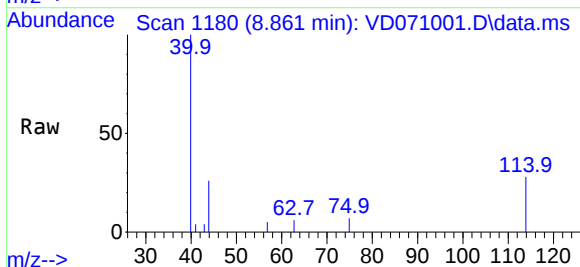
Tgt Ion: 114 Resp: 2083

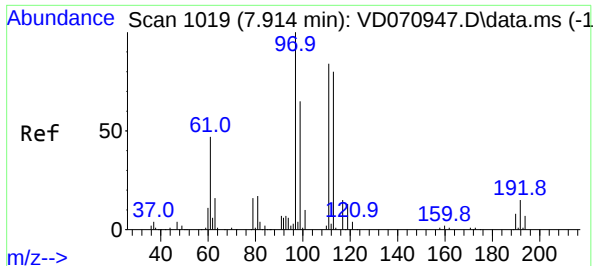
Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.8

88 0.0 0.0 32.8

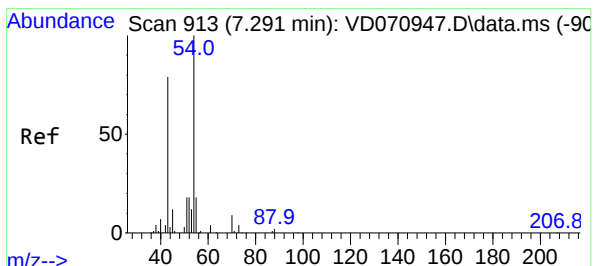
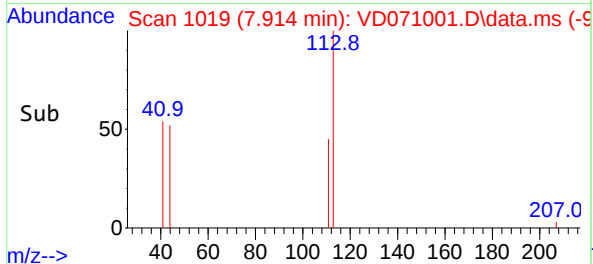
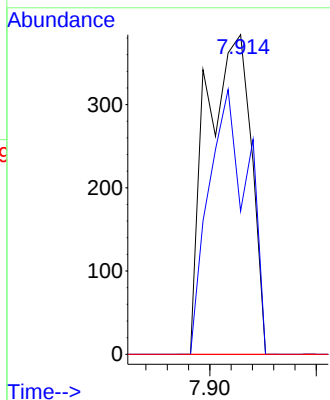
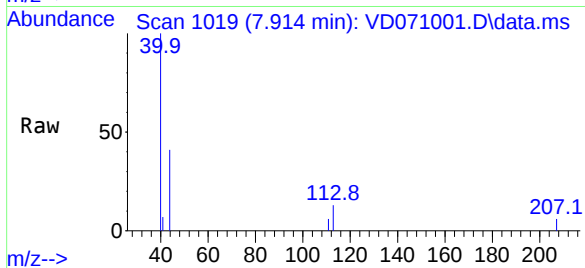




#35
Dibromofluoromethane
Concen: 47.473 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

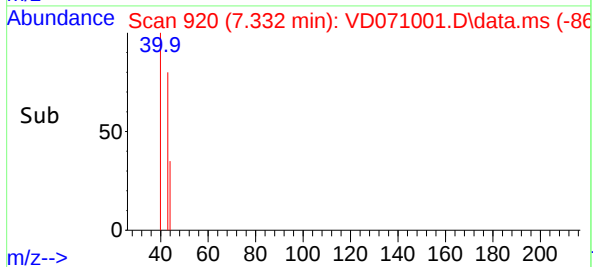
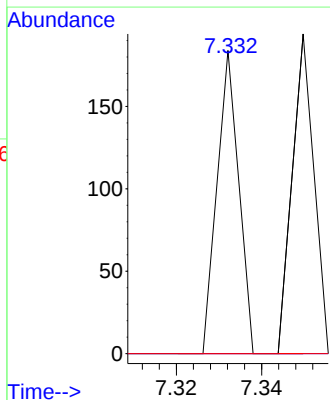
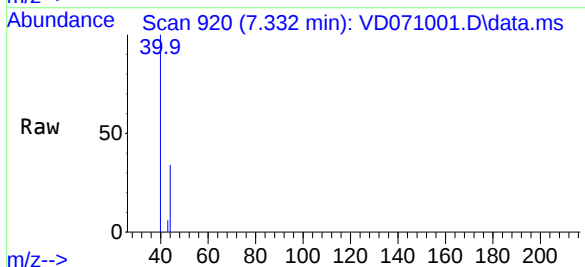
Instrument :
MSVOA_D
ClientSampleId :

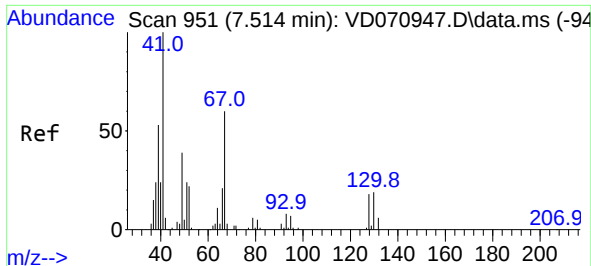
Tgt Ion:113 Resp: 558
Ion Ratio Lower Upper
113 100
111 72.9 82.0 123.0#
192 0.0 15.2 22.8#



#37
Ethyl Acetate
Concen: 7.661 ug/l
RT: 7.332 min Scan# 920
Delta R.T. 0.041 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

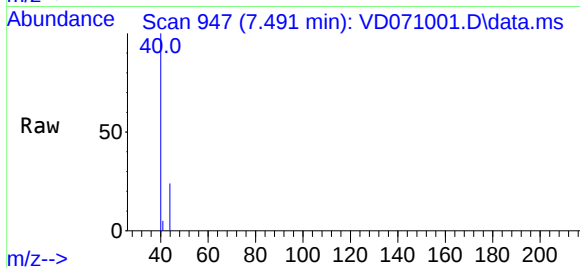
Tgt Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.6#
70 0.0 8.7 13.1#



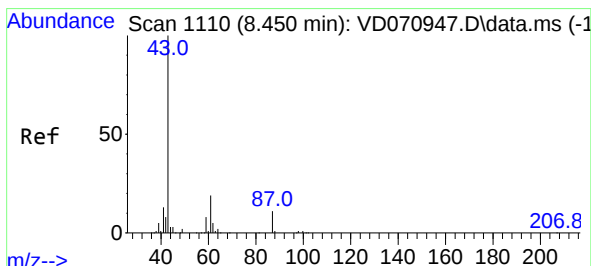
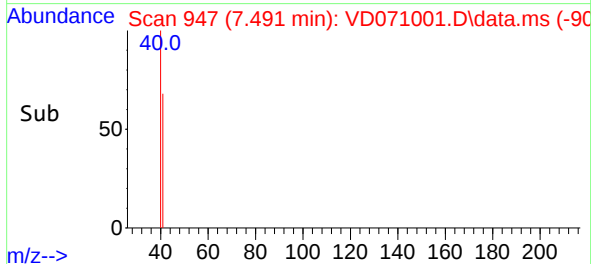
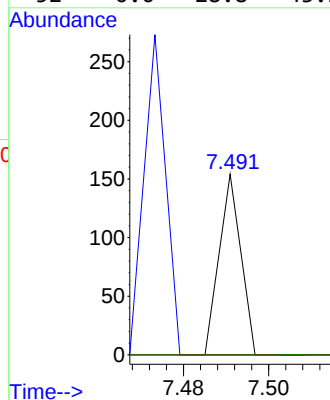


#41
Methacrylonitrile
Concen: 11.566 ug/l
RT: 7.491 min Scan# 941
Delta R.T. -0.023 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Instrument :
MSVOA_D
ClientSampleId :

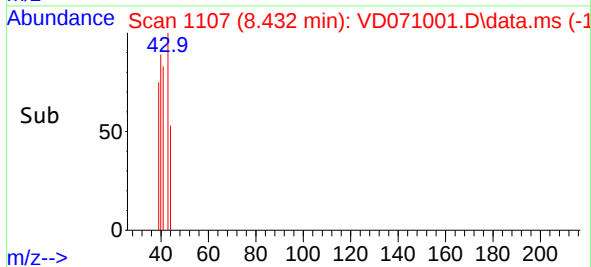
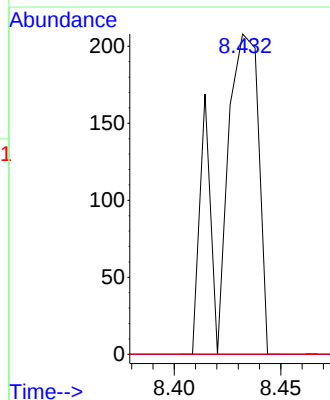
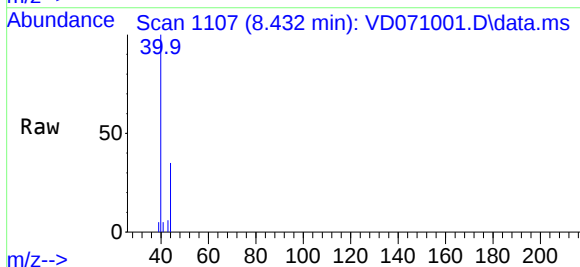


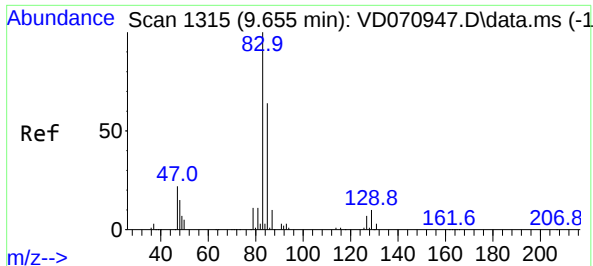
Tgt Ion:	41	Resp:	54
Ion	Ratio	Lower	Upper
41	100		
39	177.8	60.2	90.4#
67	0.0	74.8	112.2#
52	0.0	28.8	43.2#



#43
Isopropyl Acetate
Concen: 14.534 ug/l
RT: 8.432 min Scan# 1107
Delta R.T. -0.018 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

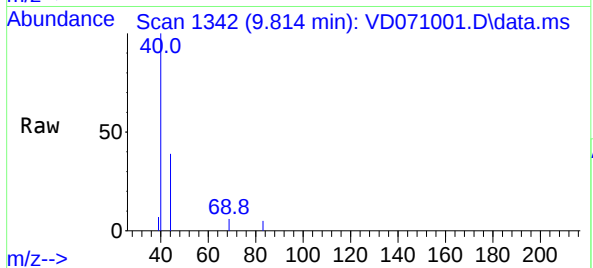
Tgt Ion:	43	Resp:	261
Ion	Ratio	Lower	Upper
43	100		
61	0.0	28.2	42.4#
87	0.0	10.7	16.1#



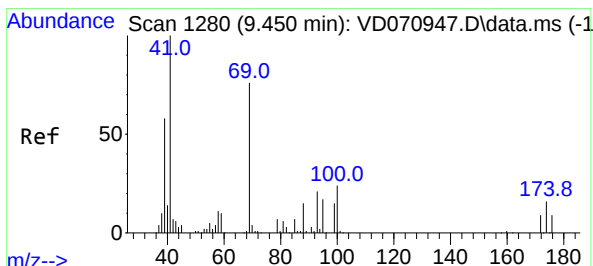
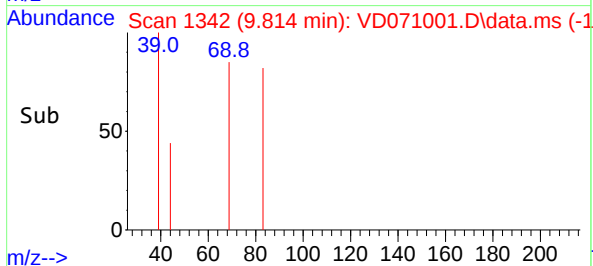
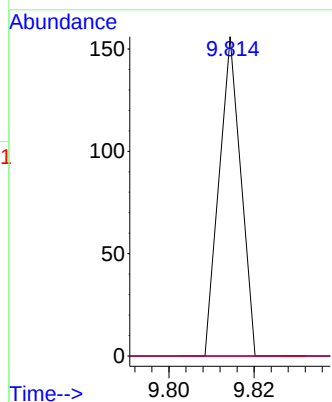


#47
Bromodichloromethane
Concen: 3.084 ug/l
RT: 9.814 min Scan# 11
Delta R.T. 0.159 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Instrument :
MSVOA_D
ClientSampleId :

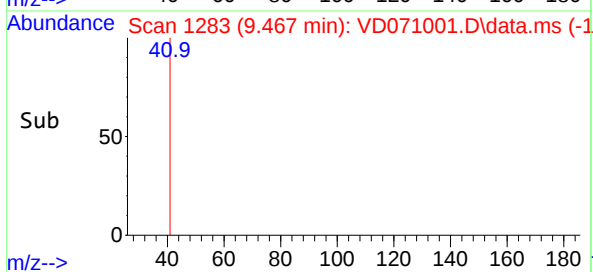
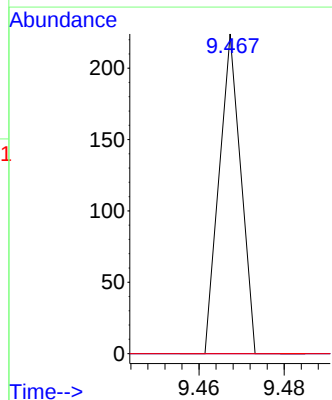
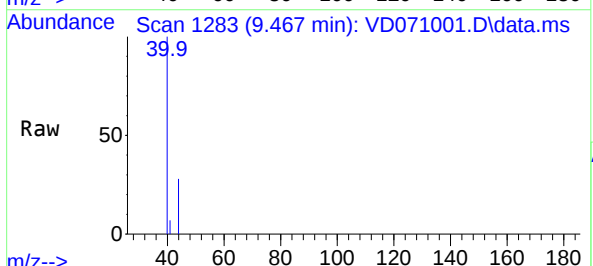


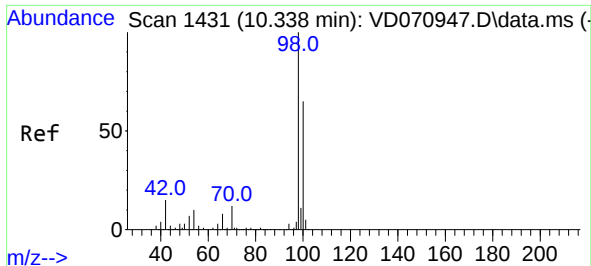
Tgt Ion: 83 Resp: 55
Ion Ratio Lower Upper
83 100
85 0.0 50.0 75.0#
127 0.0 7.3 10.9#



#48
Methyl methacrylate
Concen: 8.968 ug/l
RT: 9.467 min Scan# 1283
Delta R.T. 0.017 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Tgt Ion: 41 Resp: 79
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.6#
39 0.0 35.6 53.4#

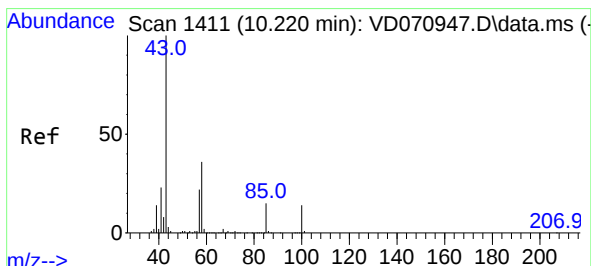
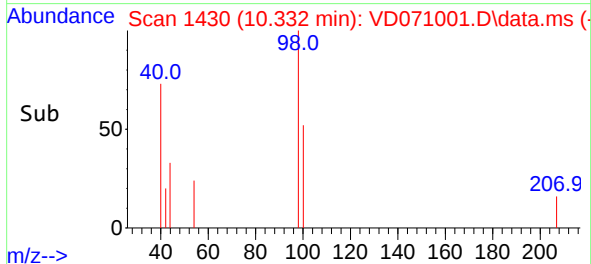
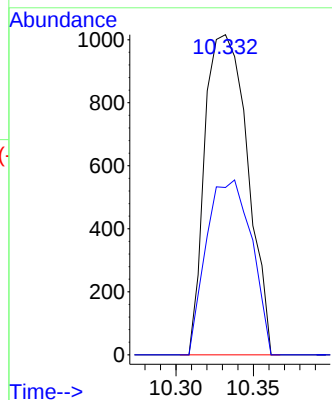
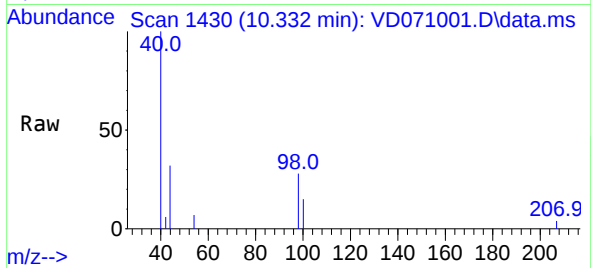




#50
Toluene-d8
Concen: 42.384 ug/l
RT: 10.332 min Scan# 1431
Delta R.T. -0.006 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

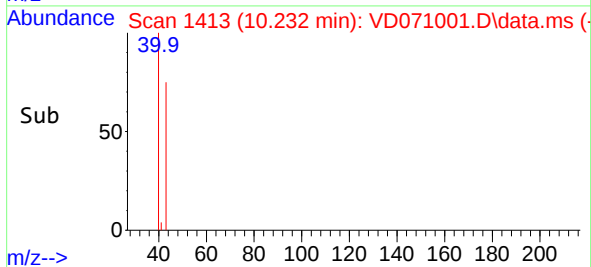
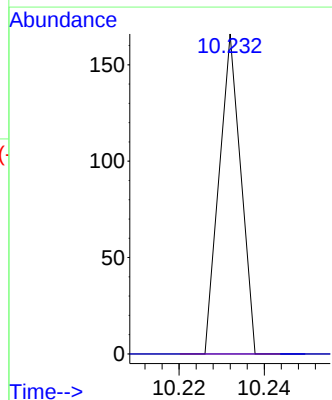
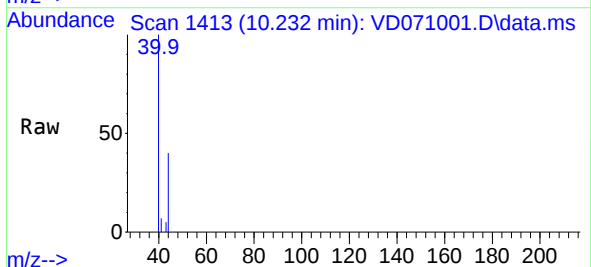
Instrument :
MSVOA_D
ClientSampleId :

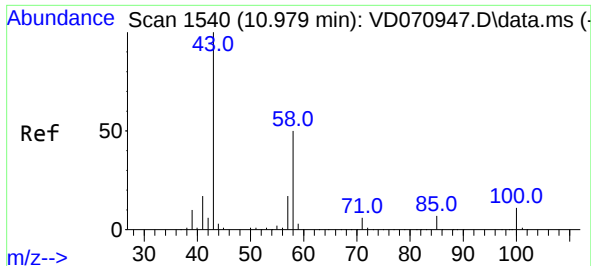
Tgt Ion: 98 Resp: 1951
Ion Ratio Lower Upper
98 100
100 57.6 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 6.777 ug/l
RT: 10.232 min Scan# 1413
Delta R.T. 0.012 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#

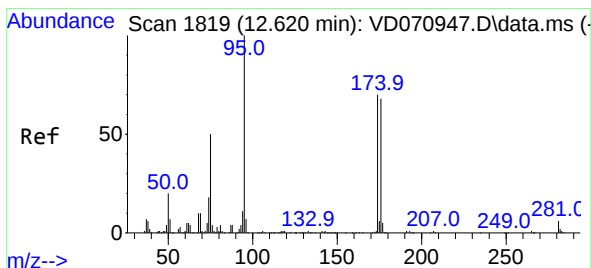
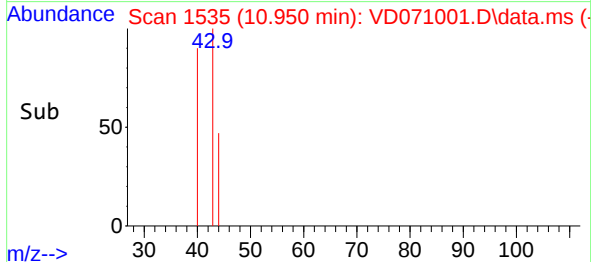
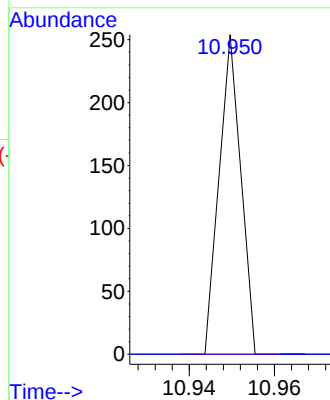
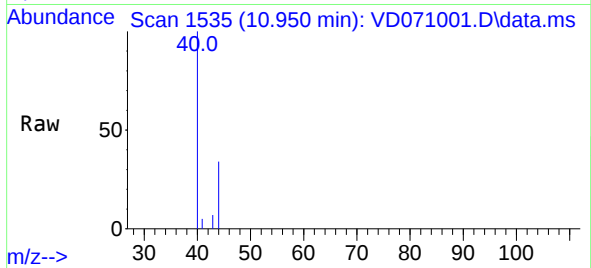




#59
2-Hexanone
Concen: 28.312 ug/l
RT: 10.950 min Scan# 11
Delta R.T. -0.029 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

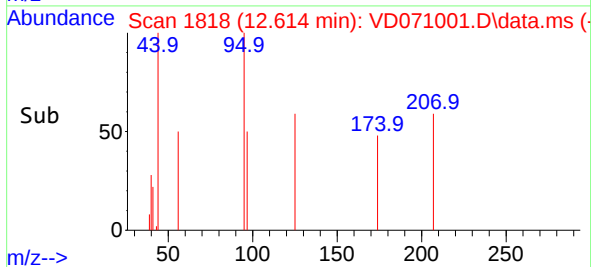
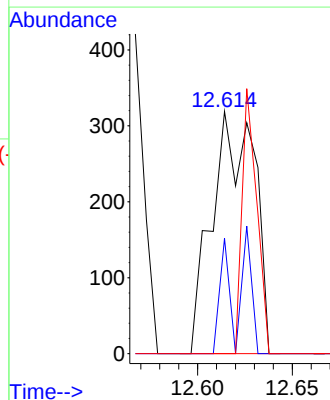
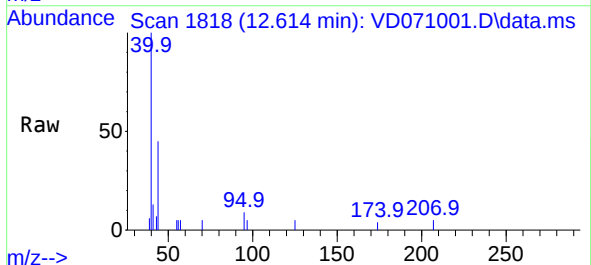
Instrument :
MSVOA_D
ClientSampleId :

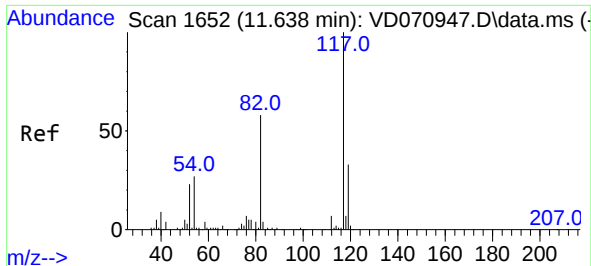
Tgt Ion: 43 Resp: 90
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 30.047 ug/l
RT: 12.614 min Scan# 1818
Delta R.T. -0.006 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

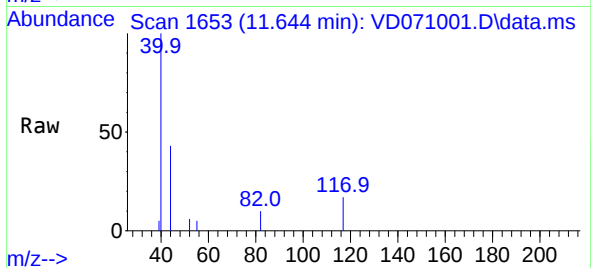
Tgt Ion: 95 Resp: 498
Ion Ratio Lower Upper
95 100
174 22.7 0.0 159.4
176 37.8 0.0 154.0



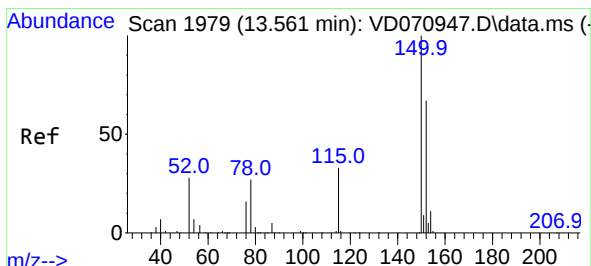
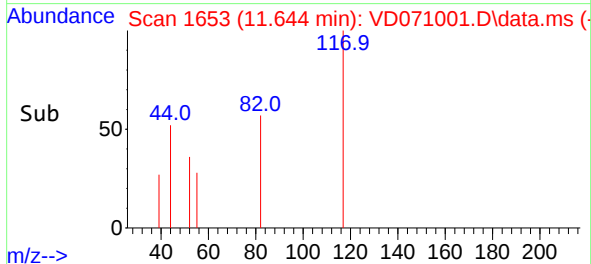
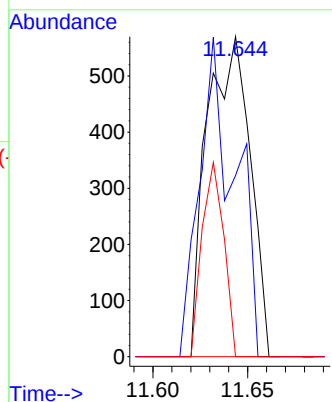


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.644 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Instrument :
MSVOA_D
ClientSampleId :

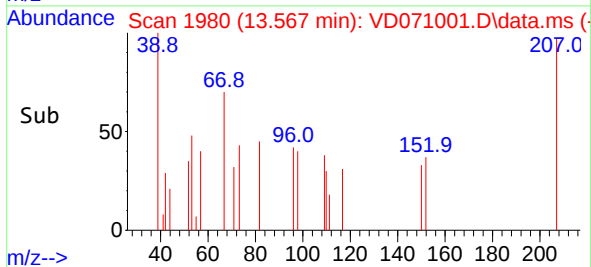
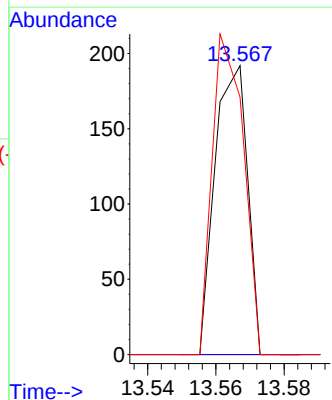
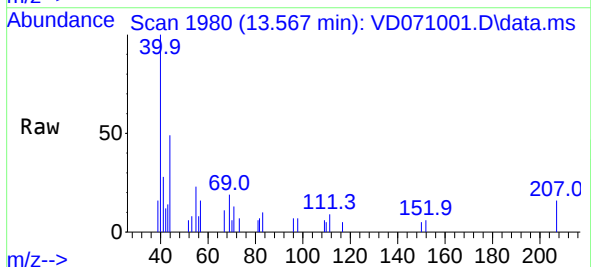


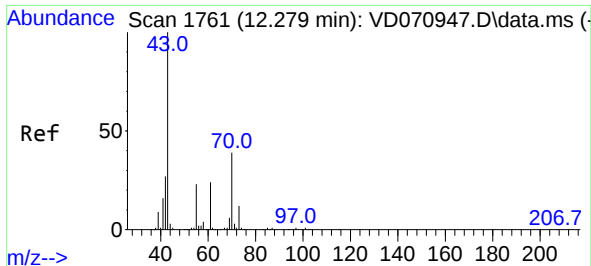
Tgt Ion:117 Resp: 903
Ion Ratio Lower Upper
117 100
82 56.7 44.7 67.1
119 0.0 26.2 39.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.006 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

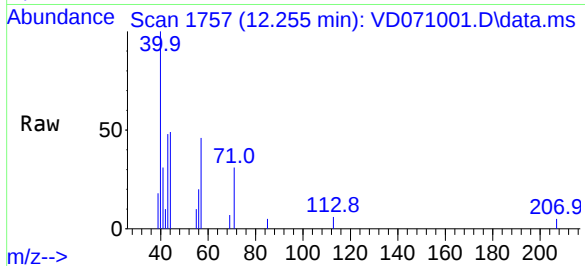
Tgt Ion:152 Resp: 127
Ion Ratio Lower Upper
152 100
115 0.0 29.8 89.3#
150 106.3 0.0 349.2



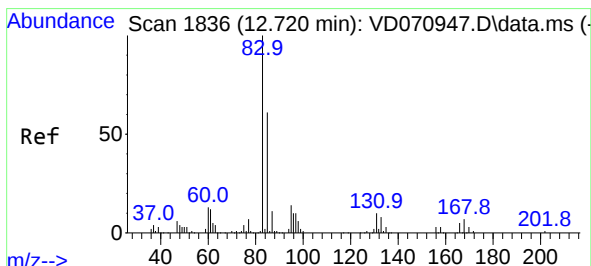
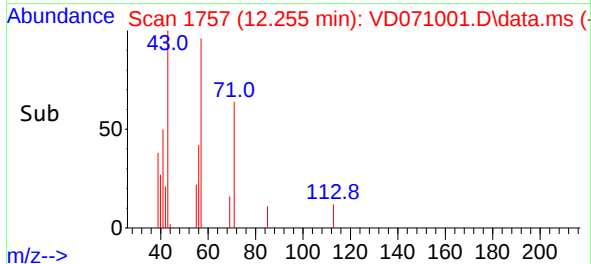
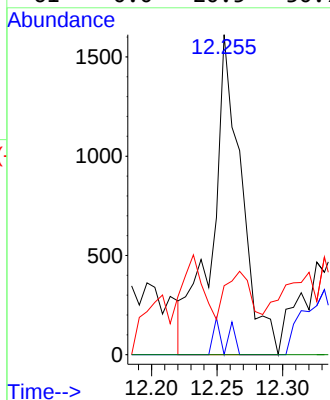


#74
N-amy1 acetate
Concen: 957.972 ug/l
RT: 12.255 min Scan# 11
Delta R.T. -0.024 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Instrument :
MSVOA_D
ClientSampleId :

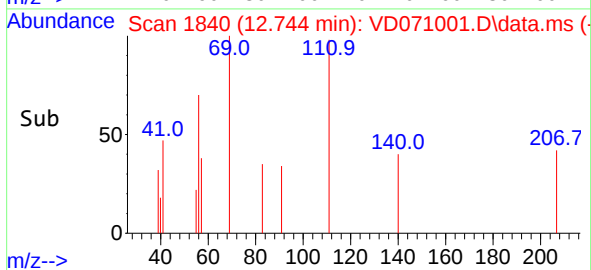
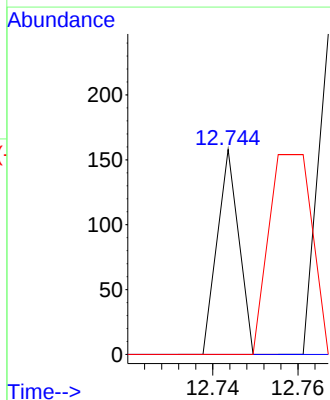
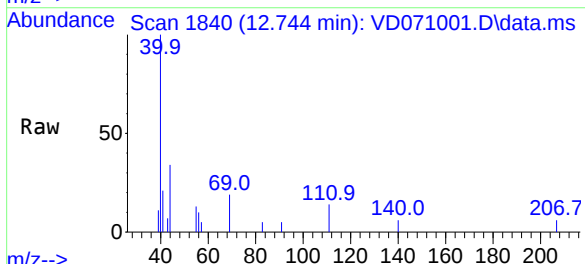


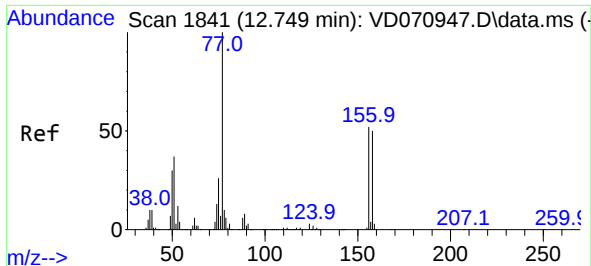
Tgt Ion: 43 Resp: 2504
Ion Ratio Lower Upper
43 100
70 5.0 36.6 55.0#
55 12.2 22.5 33.7#
61 0.0 20.5 30.7#



#75
1,1,2,2-Tetrachloroethane
Concen: 35.560 ug/l
RT: 12.744 min Scan# 1840
Delta R.T. 0.024 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Tgt Ion: 83 Resp: 56
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7#
85 194.6 32.0 96.2#

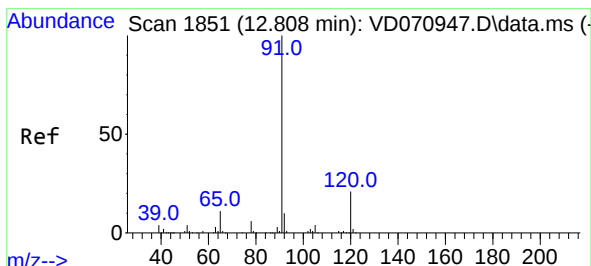
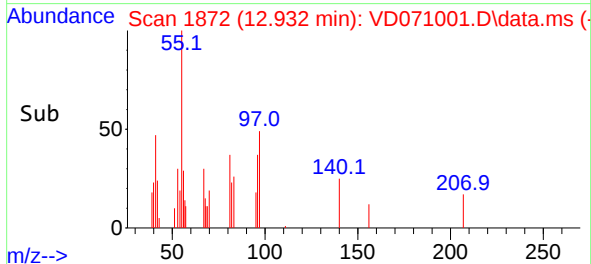
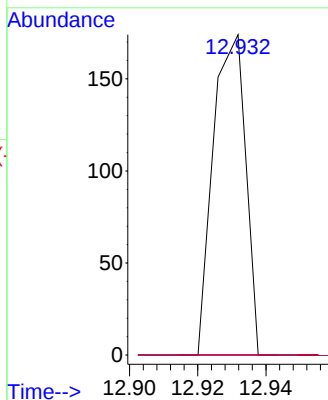
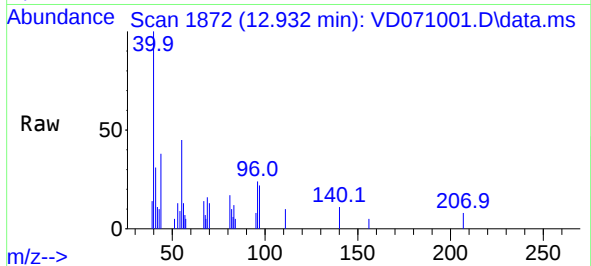




#77
Bromobenzene
Concen: 58.828 ug/l
RT: 12.932 min Scan# 115
Delta R.T. 0.183 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

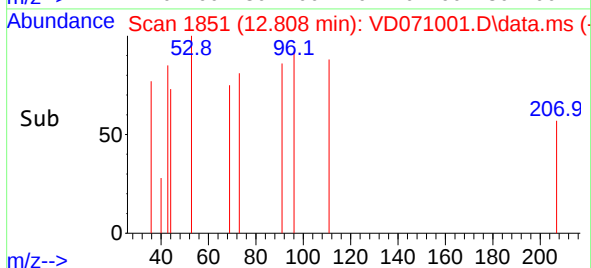
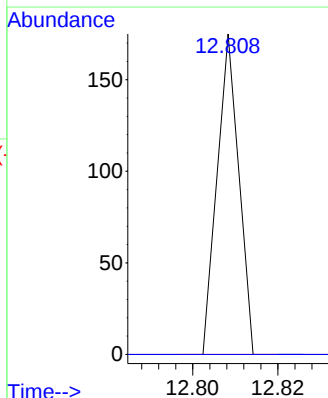
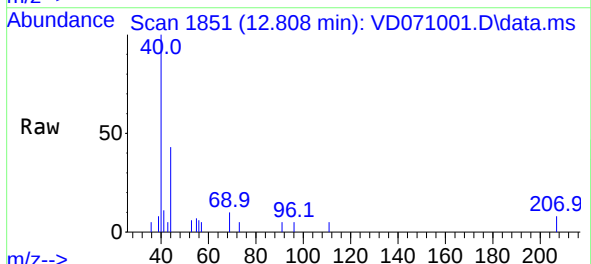
Instrument :
MSVOA_D
ClientSampleId :

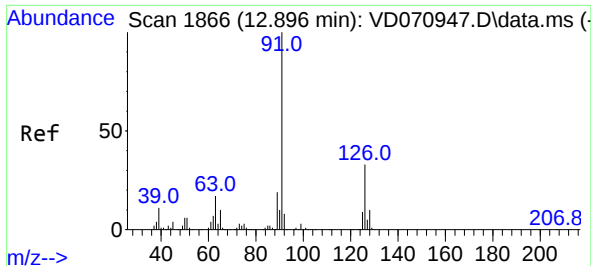
Tgt Ion	Ratio	Lower	Upper
156	100		
77	0.0	96.6	289.8#
158	0.0	49.1	147.4#



#78
n-propylbenzene
Concen: 5.469 ug/l
RT: 12.808 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Tgt Ion	Ratio	Lower	Upper
91	100		
120	0.0	10.9	32.9#





#79

2-Chlorotoluene

Concen: 9.592 ug/l

RT: 12.808 min Scan# 1864

Delta R.T. -0.088 min

Lab File: VD071001.D

Acq: 11 Nov 2021 19:46

Instrument :

MSVOA_D

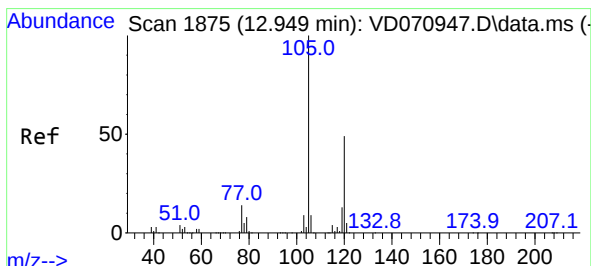
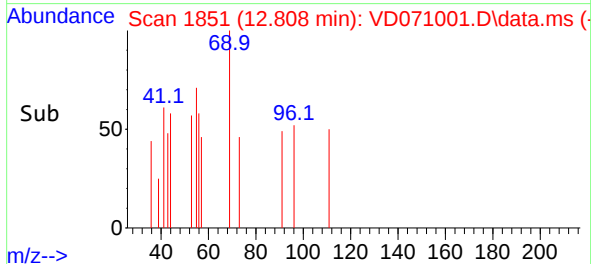
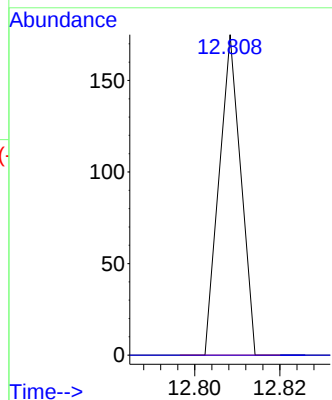
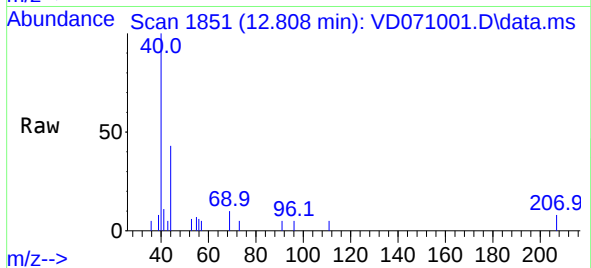
ClientSampleId :

Tgt Ion: 91 Resp: 62

Ion Ratio Lower Upper

91 100

126 0.0 16.6 49.7#



#80

1,3,5-Trimethylbenzene

Concen: 9.160 ug/l

RT: 12.885 min Scan# 1864

Delta R.T. -0.064 min

Lab File: VD071001.D

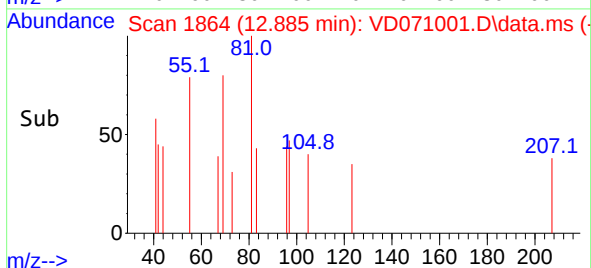
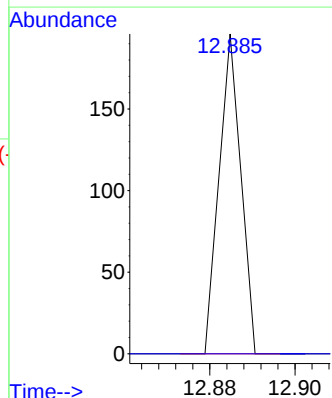
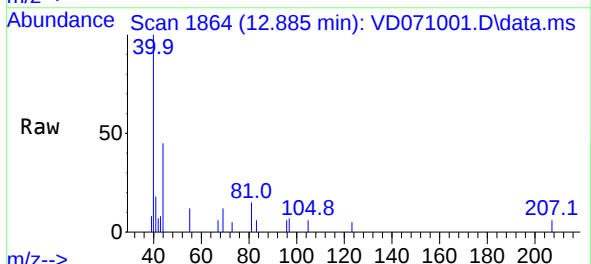
Acq: 11 Nov 2021 19:46

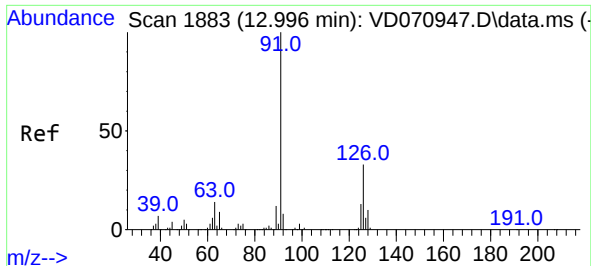
Tgt Ion: 105 Resp: 69

Ion Ratio Lower Upper

105 100

120 0.0 24.6 73.8#

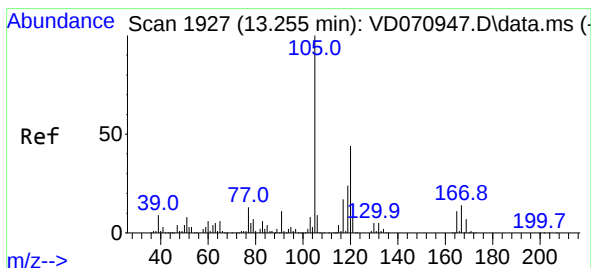
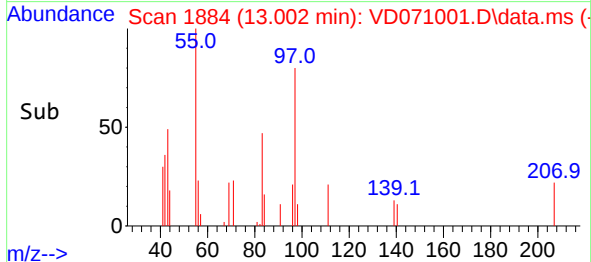
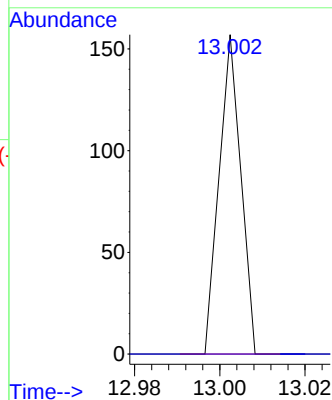
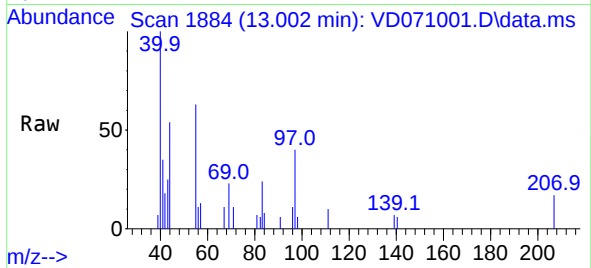




#82
4-Chlorotoluene
Concen: 8.244 ug/l
RT: 13.002 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

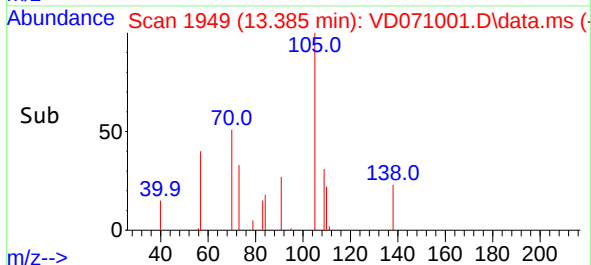
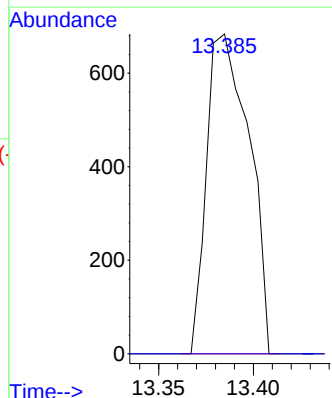
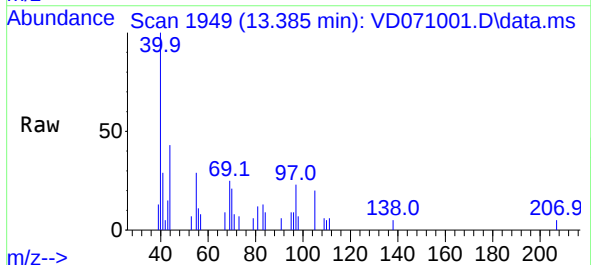
Instrument :
MSVOA_D
ClientSampleId :

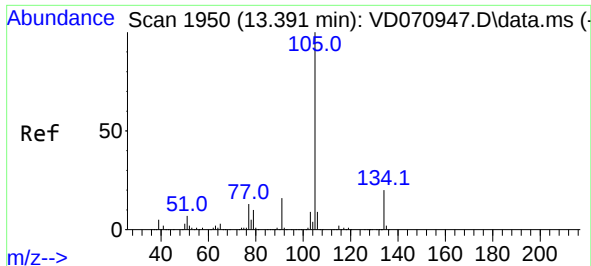
Tgt Ion: 91 Resp: 55
Ion Ratio Lower Upper
91 100
126 0.0 16.4 49.1#



#84
1,2,4-Trimethylbenzene
Concen: 144.493 ug/l
RT: 13.385 min Scan# 1949
Delta R.T. 0.130 min
Lab File: VD071001.D
Acq: 11 Nov 2021 19:46

Tgt Ion: 105 Resp: 1066
Ion Ratio Lower Upper
105 100
120 0.0 22.9 68.7#

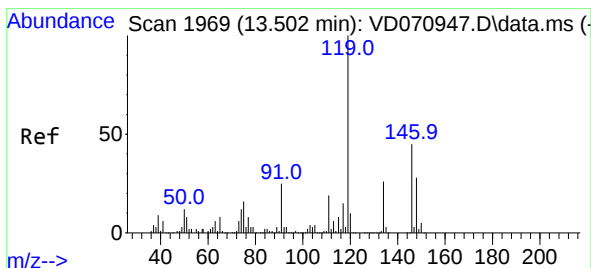
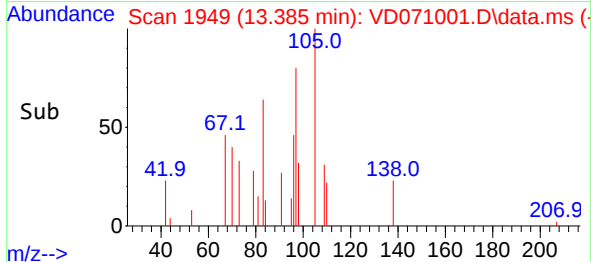
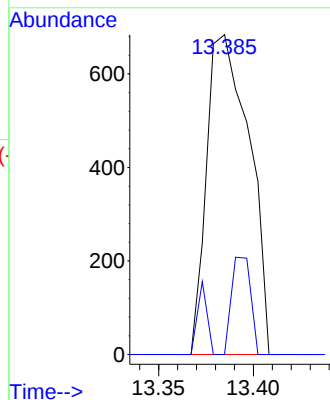
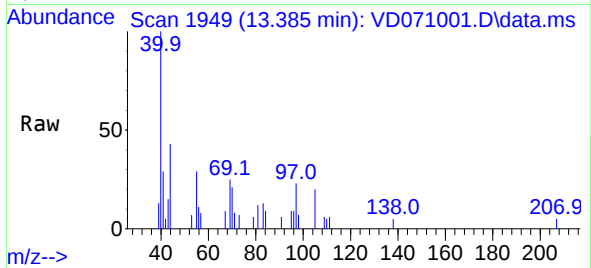




#85
 sec-Butylbenzene
 Concen: 109.268 ug/l
 RT: 13.385 min Scan# 1950
 Delta R.T. -0.006 min
 Lab File: VD071001.D
 Acq: 11 Nov 2021 19:46

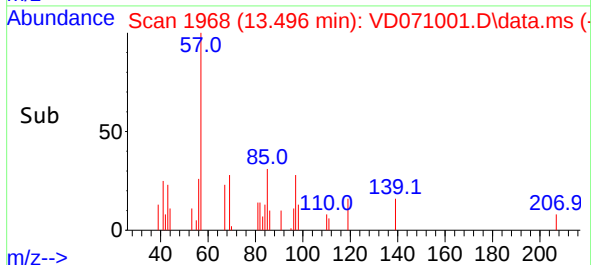
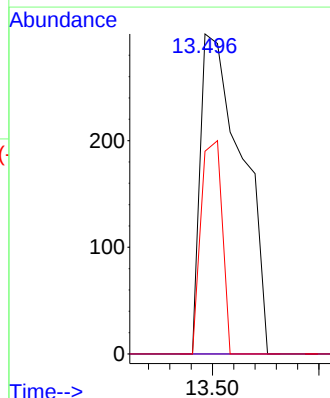
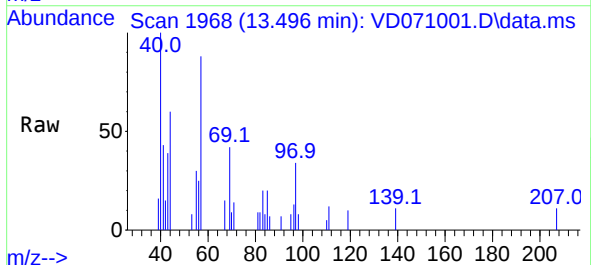
Instrument :
 MSVOA_D
 ClientSampleId :

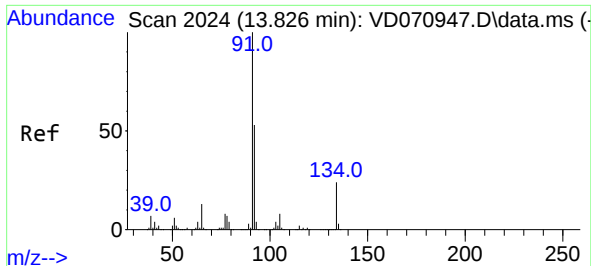
Tgt Ion:105 Resp: 1066
 Ion Ratio Lower Upper
 105 100
 134 13.7 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 51.827 ug/l
 RT: 13.496 min Scan# 1968
 Delta R.T. -0.006 min
 Lab File: VD071001.D
 Acq: 11 Nov 2021 19:46

Tgt Ion:119 Resp: 406
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.0 38.9#
 91 34.0 11.4 34.2





#89

n-Butylbenzene

Concen: 17.275 ug/l

RT: 13.838 min Scan# 20

Delta R.T. 0.012 min

Lab File: VD071001.D

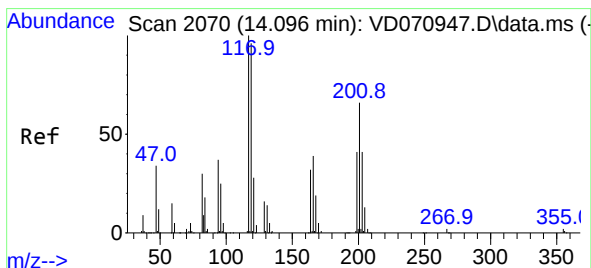
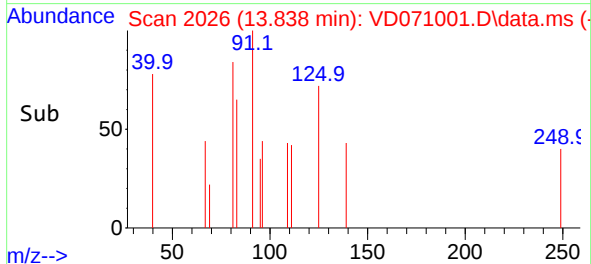
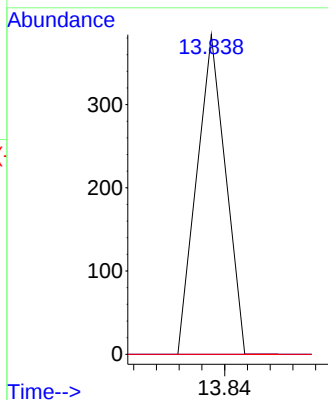
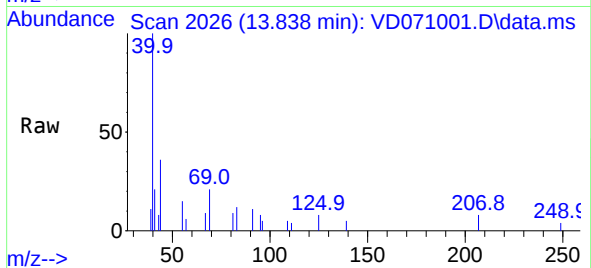
Acq: 11 Nov 2021 19:46

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 91	Resp:	136
Ion Ratio	Lower	Upper
91	100	
92	0.0	27.3
134	0.0	12.3



#90

Hexachloroethane

Concen: 61.928 ug/l

RT: 14.202 min Scan# 2088

Delta R.T. 0.106 min

Lab File: VD071001.D

Acq: 11 Nov 2021 19:46

Tgt Ion: 117	Resp:	96
Ion Ratio	Lower	Upper
117	100	
201	0.0	36.0

