

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102921\
 Data File : VU045469.D
 Acq On : 29 Oct 2021 17:17
 Operator : SY/MD
 Sample : M4345-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MH-FFS

Quant Time: Oct 30 04:08:38 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U102821W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 29 11:09:42 2021
 Response via : Initial Calibration

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

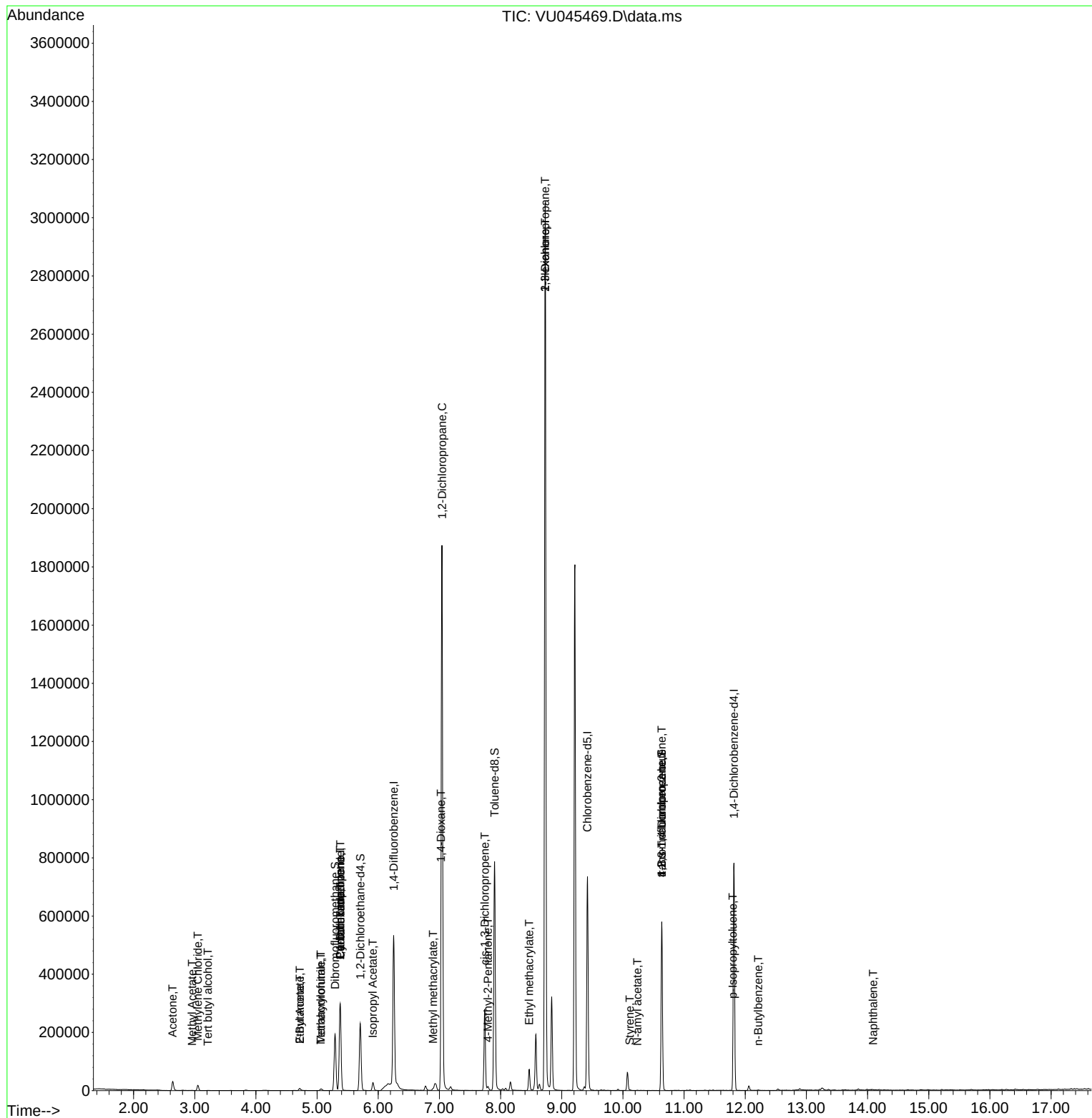
Internal Standards						
1) Pentafluorobenzene	5.378	168	202332	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	404263	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	392283	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	194636	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	170790	51.848	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.700%			
35) Dibromofluoromethane	5.295	113	125444	48.802	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.600%			
50) Toluene-d8	7.902	98	517826	51.372	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.740%			
62) 4-Bromofluorobenzene	10.636	95	196500	51.158	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.320%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	3.215	59	727	1.022	ug/l #	72
16) Acetone	2.639	43	40214	26.891	ug/l	99
18) Methyl Acetate	2.957	43	1185	0.213	ug/l #	67
20) Methylene Chloride	3.051	84	8775	2.945	ug/l	98
25) 2-Butanone	4.716	43	11697	5.181	ug/l	95
29) Tetrahydrofuran	5.063	42	4266	2.914	ug/l	92
31) Cyclohexane	5.378	56	4923	1.004	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	18676	4.853	ug/l #	49
37) Ethyl Acetate	4.716	43	11697	2.510	ug/l #	67
38) Carbon Tetrachloride	5.378	117	21040	6.269	ug/l #	15
41) Methacrylonitrile	5.063	41	2532	1.027	ug/l #	35
43) Isopropyl Acetate	5.912	43	29463	4.195	ug/l	98
45) 1,2-Dichloropropane	7.044	63	2251	0.738	ug/l #	43
48) Methyl methacrylate	6.896	41	9402	2.824	ug/l #	13
49) 1,4-Dioxane	7.025	88	255	3.014	ug/l #	1
51) 4-Methyl-2-Pentanone	7.793	43	7575	1.669	ug/l	94
54) cis-1,3-Dichloropropene	7.742	75	50913	10.677	ug/l #	60
56) Ethyl methacrylate	8.468	69	174	1.673	ug/l #	1
57) 1,3-Dichloropropane	8.729	76	30897	6.051	ug/l #	42
59) 2-Hexanone	8.729	43	414888	117.959	ug/l #	48
70) Styrene	10.115	104	559	1.035	ug/l #	74
74) N-amyl acetate	10.237	43	1176	1.324	ug/l #	40
76) 1,2,3-Trichloropropane	10.636	75	101804	19.631	ug/l #	43
81) trans-1,4-Dichloro-2-b...	10.636	75	101804	54.577	ug/l #	12
86) p-Isopropyltoluene	11.796	119	663	0.241	ug/l #	6
89) n-Butylbenzene	12.211	91	1031	1.022	ug/l	89
95) Naphthalene	14.092	128	1745	0.209	ug/l #	90

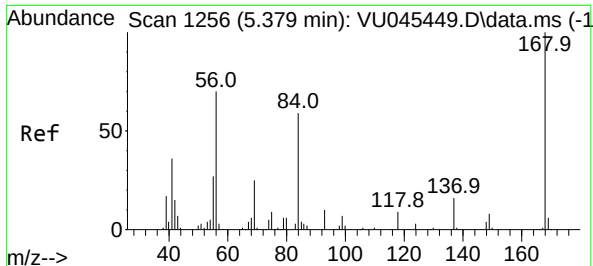
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102921\
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QLast Update : Fri Oct 29 11:09:42 2021
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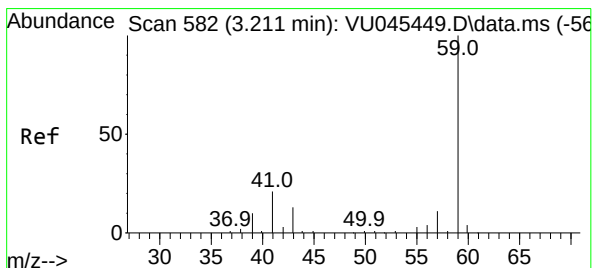
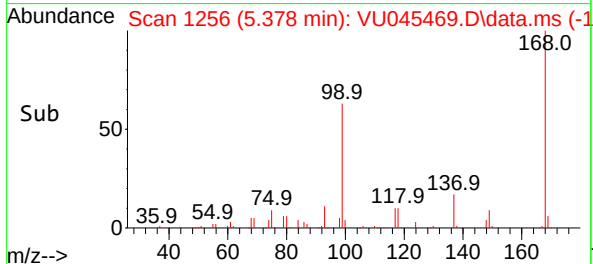
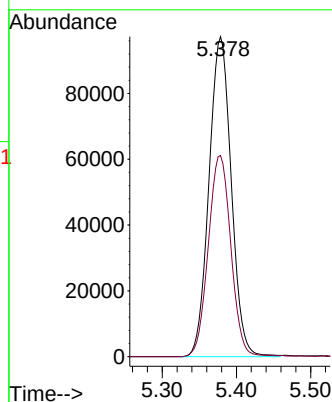
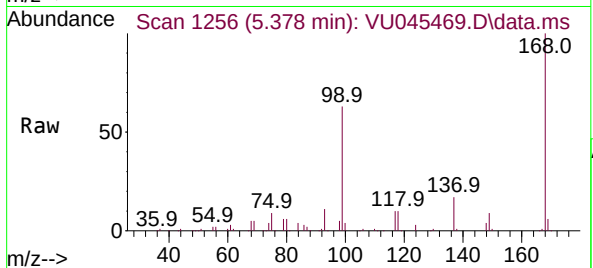




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 11
Delta R.T. -0.001 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

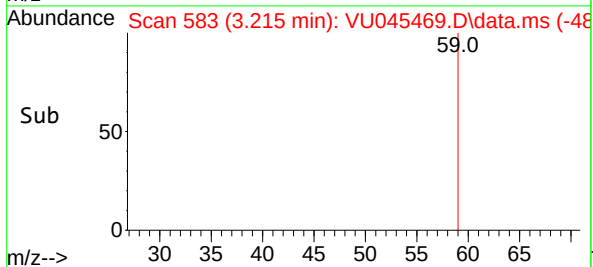
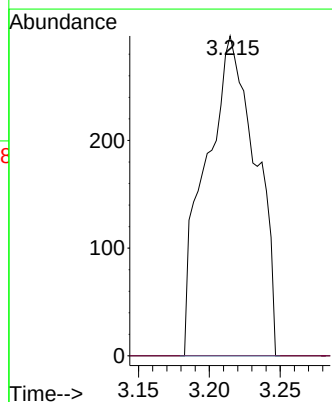
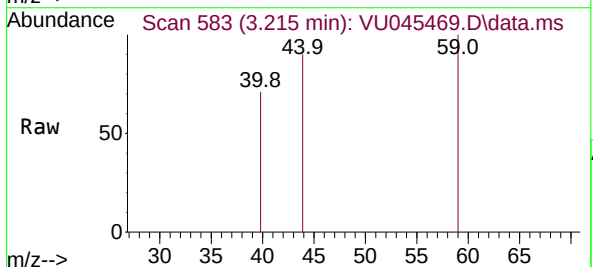
Instrument :
MSVOA_U
ClientSampleId :
MH-FFS

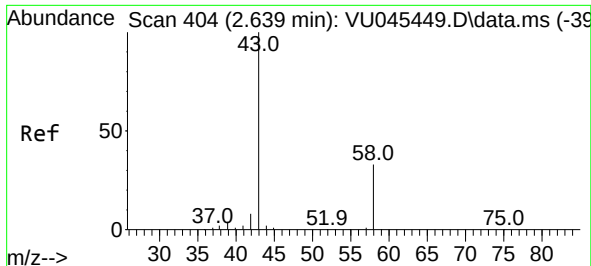
Tgt Ion:168 Resp: 202332
Ion Ratio Lower Upper
168 100
99 62.9 51.0 76.6



#11
Tert butyl alcohol
Concen: 1.022 ug/l
RT: 3.215 min Scan# 583
Delta R.T. 0.003 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Tgt Ion: 59 Resp: 727
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

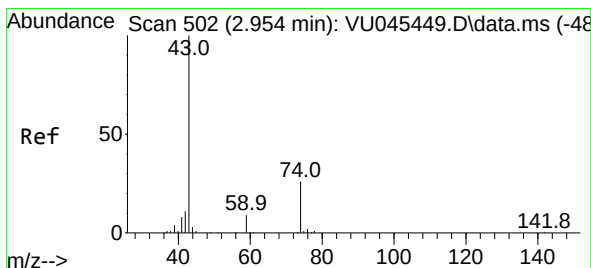
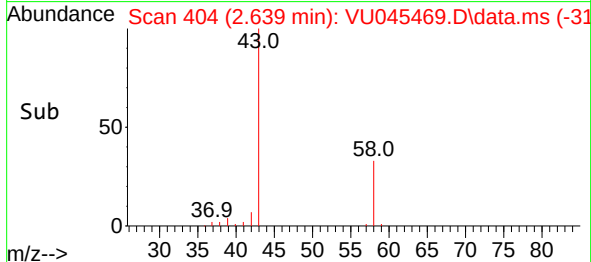
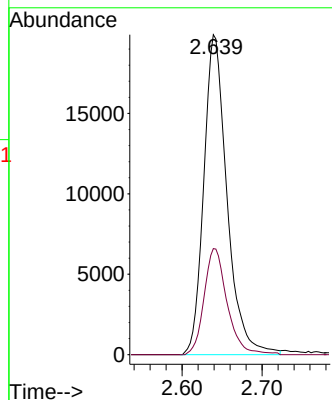
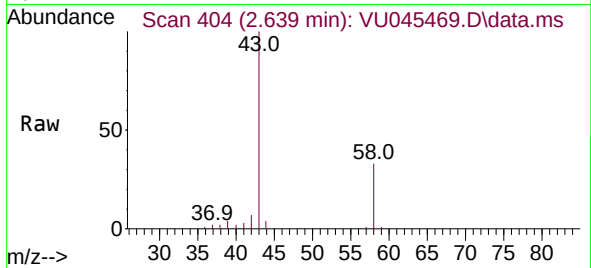




#16
Acetone
Concen: 26.891 ug/l
RT: 2.639 min Scan# 404
Delta R.T. -0.000 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

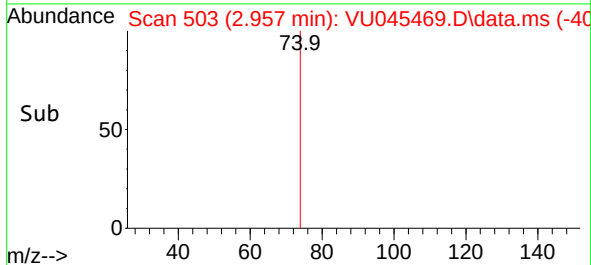
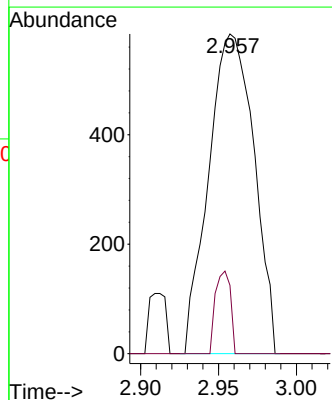
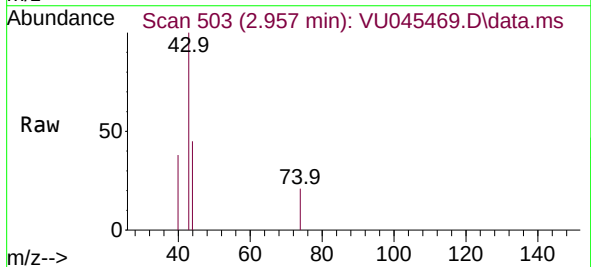
Instrument :
MSVOA_U
ClientSampleId :
MH-FFS

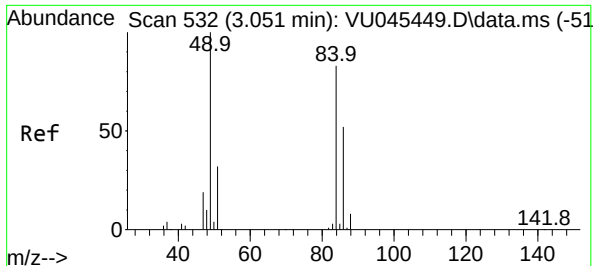
Tgt Ion: 43 Resp: 40214
Ion Ratio Lower Upper
43 100
58 33.1 26.2 39.2



#18
Methyl Acetate
Concen: 0.213 ug/l
RT: 2.957 min Scan# 503
Delta R.T. 0.003 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Tgt Ion: 43 Resp: 1185
Ion Ratio Lower Upper
43 100
74 8.6 20.2 30.2#

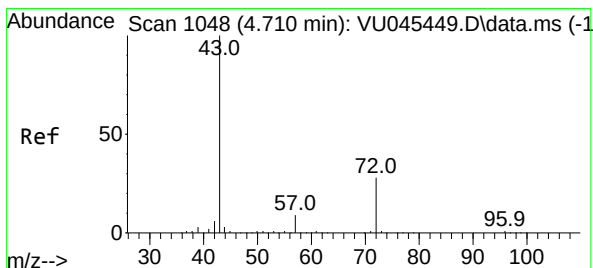
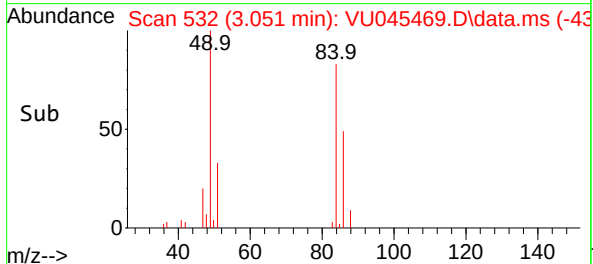
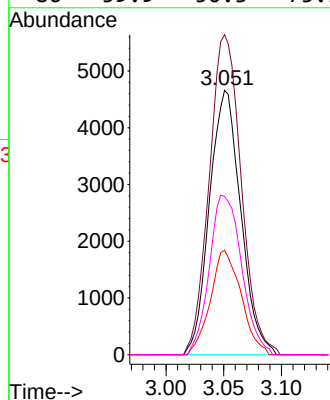
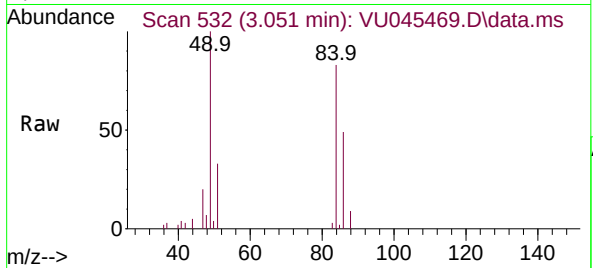




#20
Methylene Chloride
Concen: 2.945 ug/l
RT: 3.051 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

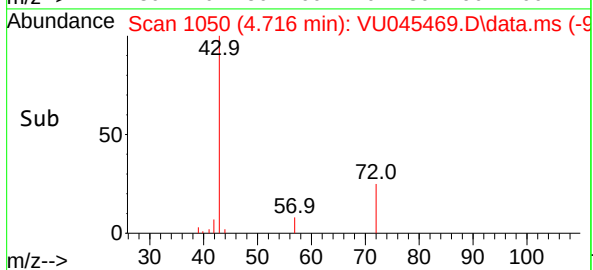
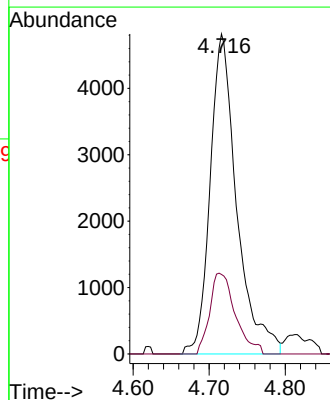
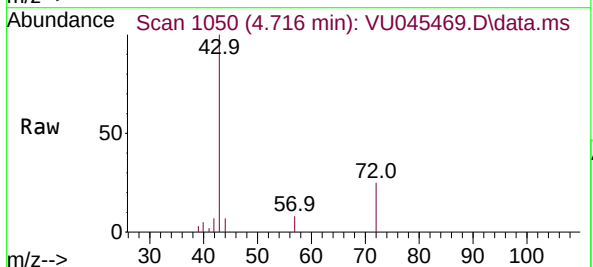
Instrument :
MSVOA_U
ClientSampleId :
MH-FFS

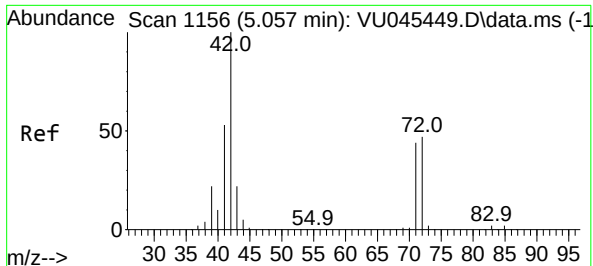
Tgt Ion:	84	Resp:	8775
Ion	Ratio	Lower	Upper
84	100		
49	121.1	96.4	144.6
51	39.5	30.5	45.7
86	59.9	50.3	75.5



#25
2-Butanone
Concen: 5.181 ug/l
RT: 4.716 min Scan# 1050
Delta R.T. 0.006 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Tgt Ion:	43	Resp:	11697
Ion	Ratio	Lower	Upper
43	100		
72	24.9	22.0	33.0





#29

Tetrahydrofuran

Concen: 2.914 ug/l

RT: 5.063 min Scan# 1156

Delta R.T. 0.006 min

Lab File: VU045469.D

Acq: 29 Oct 2021 17:17

Instrument :

MSVOA_U

ClientSampleId :

MH-FFS

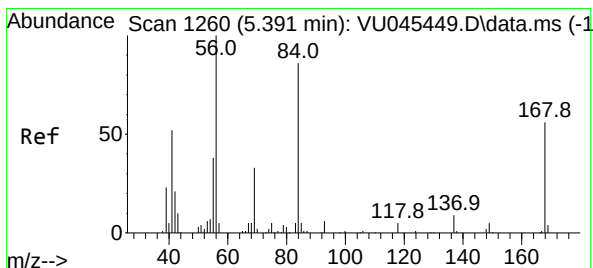
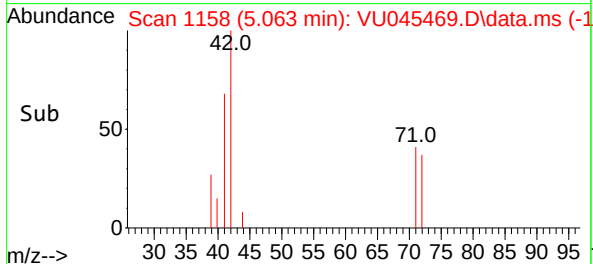
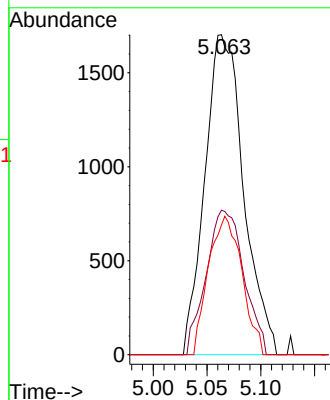
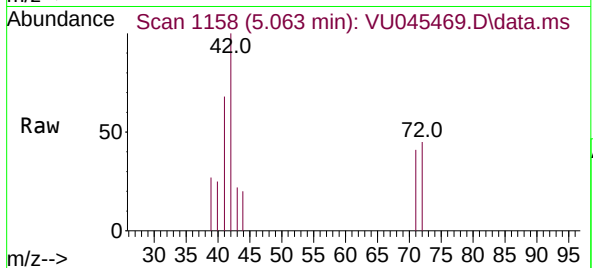
Tgt Ion: 42 Resp: 4266

Ion Ratio Lower Upper

42 100

72 44.1 38.2 57.4

71 37.3 35.4 53.2



#31

Cyclohexane

Concen: 1.004 ug/l

RT: 5.378 min Scan# 1256

Delta R.T. -0.013 min

Lab File: VU045469.D

Acq: 29 Oct 2021 17:17

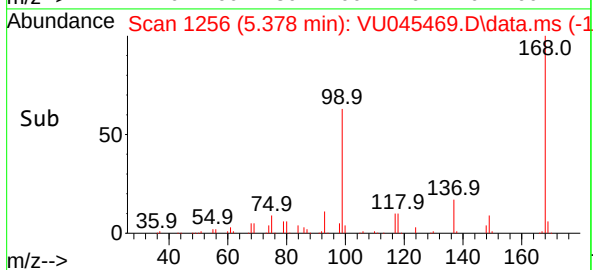
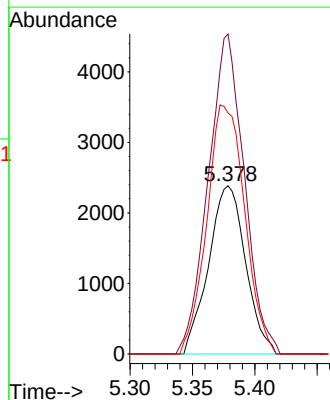
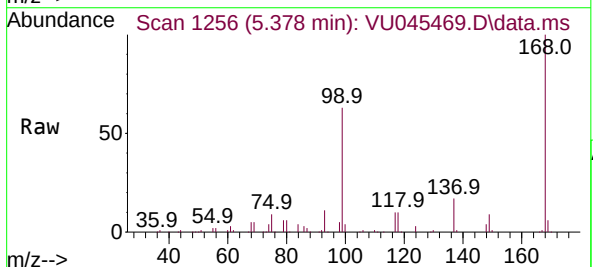
Tgt Ion: 56 Resp: 4923

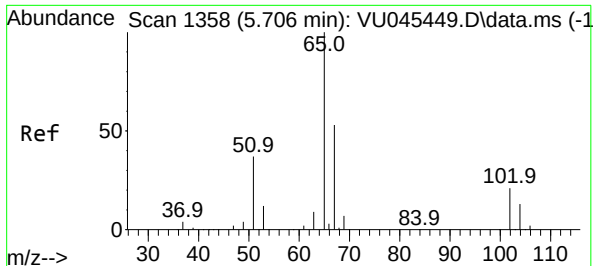
Ion Ratio Lower Upper

56 100

69 190.4 26.4 39.6#

84 143.3 68.4 102.6#





#33

1,2-Dichloroethane-d4

Concen: 51.848 ug/l

RT: 5.706 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU045469.D

Acq: 29 Oct 2021 17:17

Instrument :

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ClientSampleId :

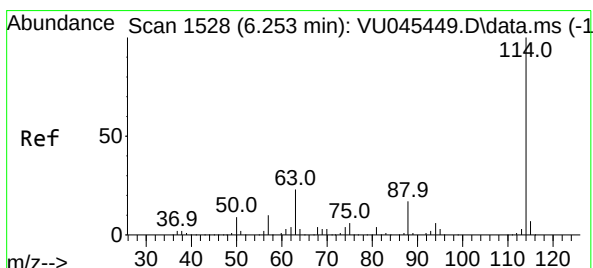
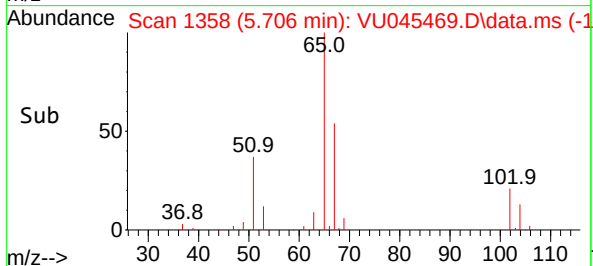
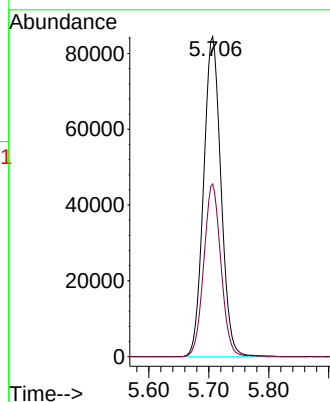
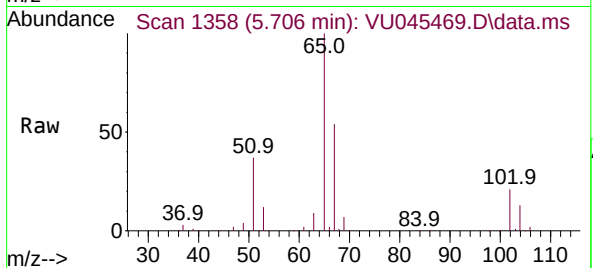
MH-FFS

Tgt Ion: 65 Resp: 170790

Ion Ratio Lower Upper

65 100

67 53.2 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045469.D

Acq: 29 Oct 2021 17:17

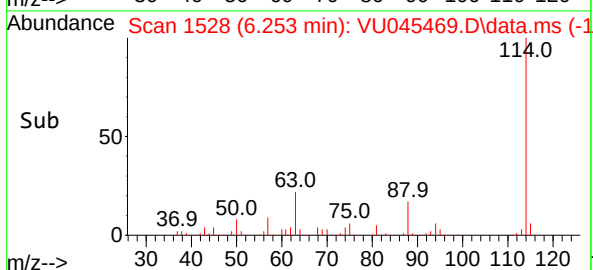
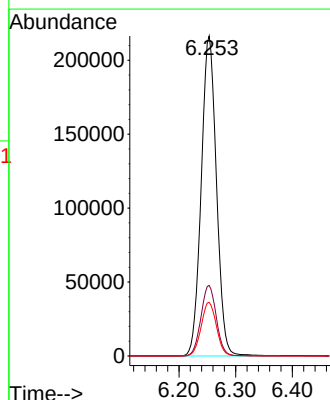
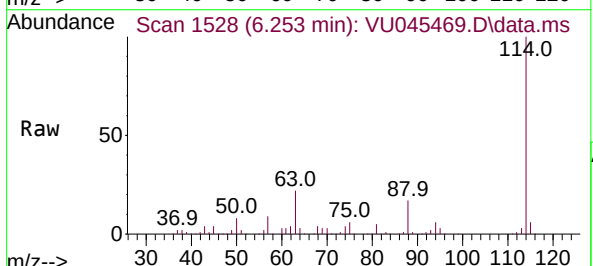
Tgt Ion: 114 Resp: 404263

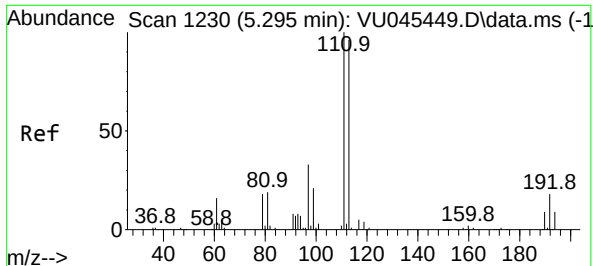
Ion Ratio Lower Upper

114 100

63 22.1 0.0 45.6

88 16.8 0.0 33.8

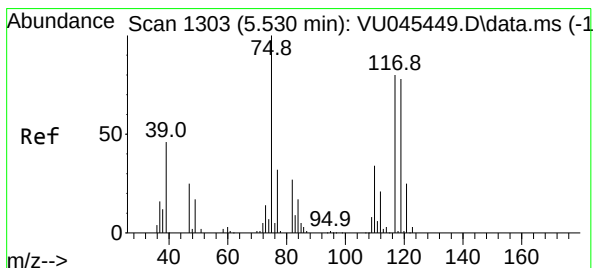
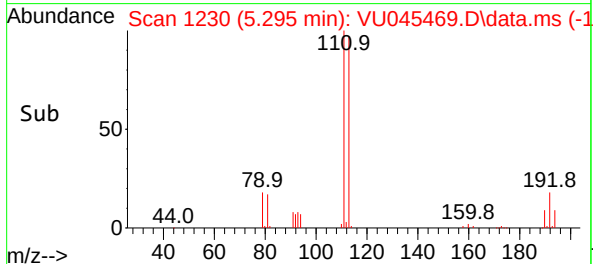
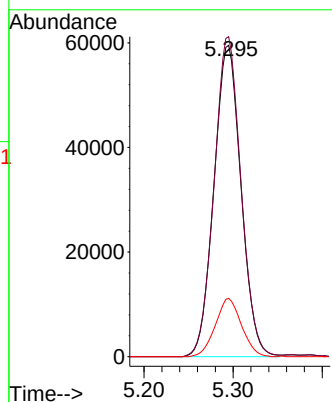
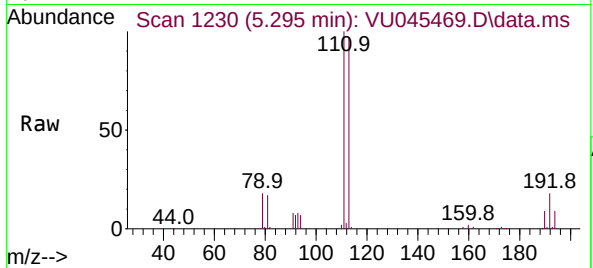




#35
Dibromofluoromethane
Concen: 48.802 ug/l
RT: 5.295 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

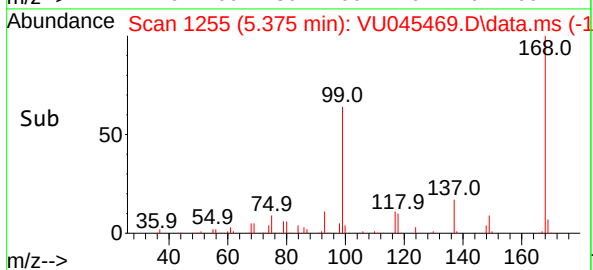
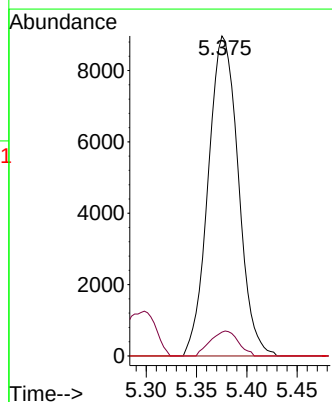
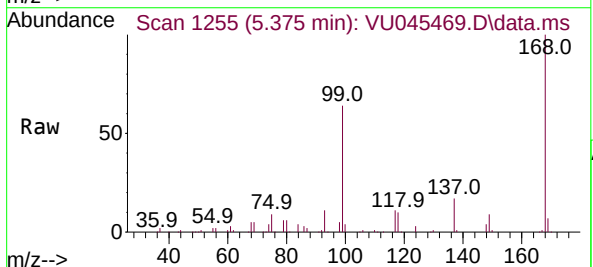
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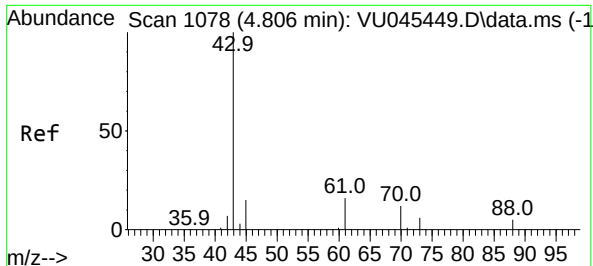
Tgt Ion:113 Resp: 125444
Ion Ratio Lower Upper
113 100
111 102.1 82.8 124.2
192 18.1 14.8 22.2



#36
1,1-Dichloropropene
Concen: 4.853 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.154 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Tgt Ion: 75 Resp: 18676
Ion Ratio Lower Upper
75 100
110 7.2 16.7 50.0#
77 0.0 25.0 37.4#

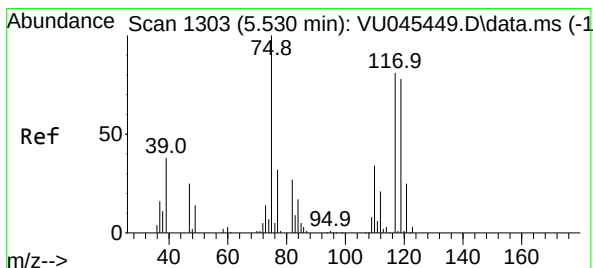
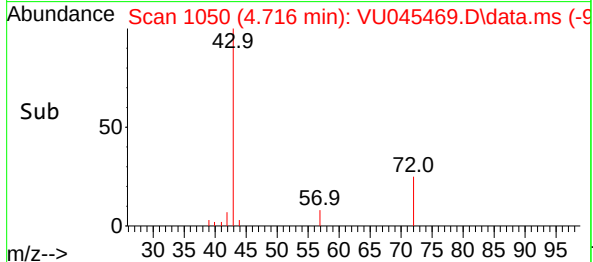
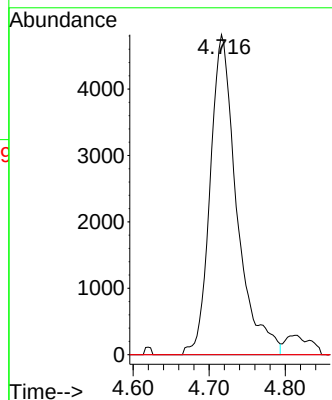
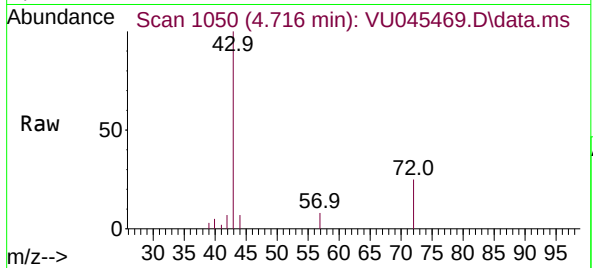




#37
Ethyl Acetate
Concen: 2.510 ug/l
RT: 4.716 min Scan# 11697
Delta R.T. -0.090 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

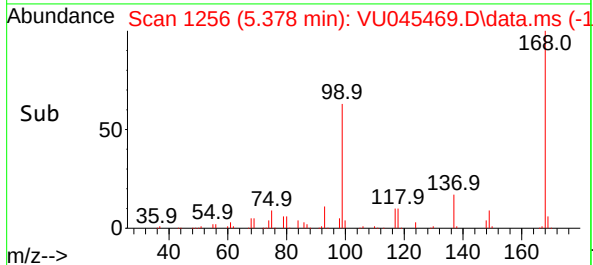
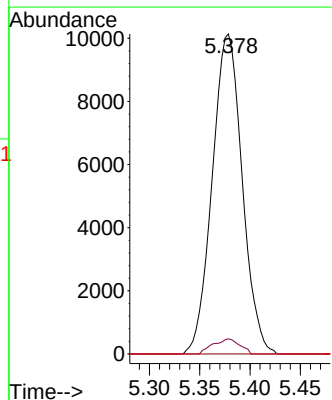
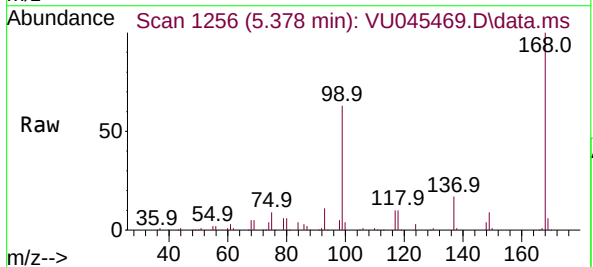
Instrument :
MSVOA_U
ClientSampleId :
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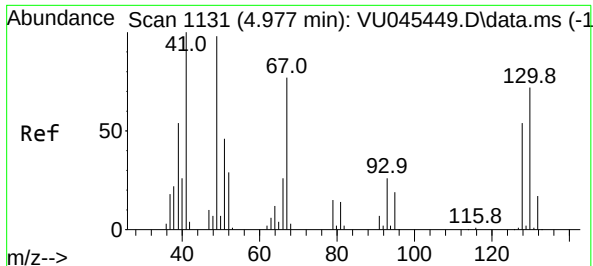
Tgt Ion: 43 Resp: 11697
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 9.1 13.7#



#38
Carbon Tetrachloride
Concen: 6.269 ug/l
RT: 5.378 min Scan# 1256
Delta R.T. -0.151 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Tgt Ion: 117 Resp: 21040
Ion Ratio Lower Upper
117 100
119 4.8 77.4 116.0#
121 0.0 24.8 37.2#

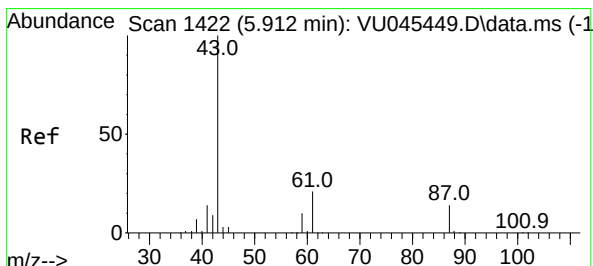
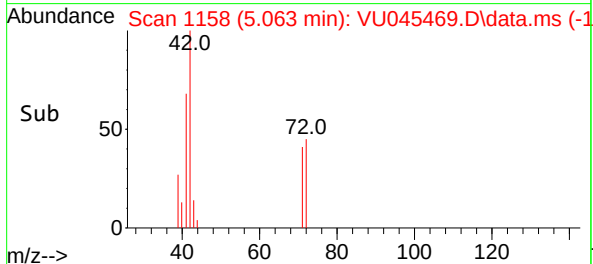
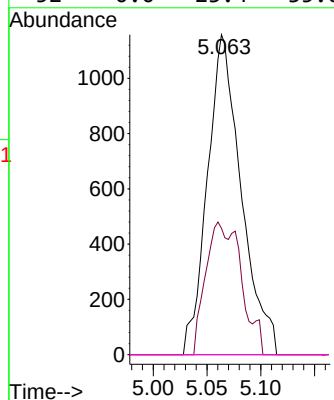
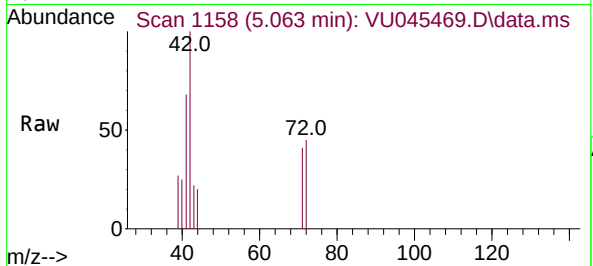




#41
Methacrylonitrile
Concen: 1.027 ug/l
RT: 5.063 min Scan# 1131
Delta R.T. 0.087 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

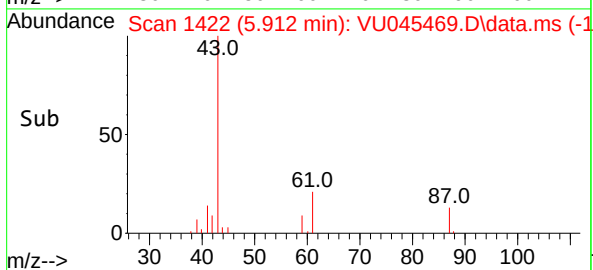
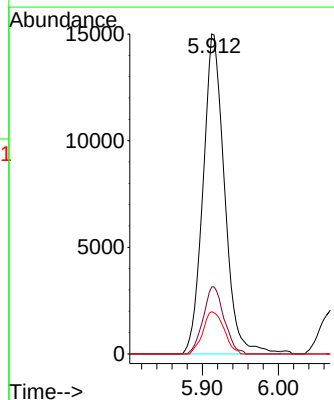
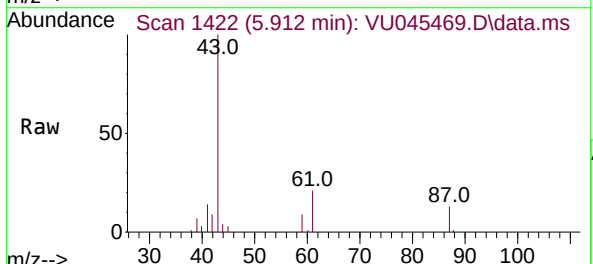
Instrument :
MSVOA_U
ClientSampleId :
MH-FFS

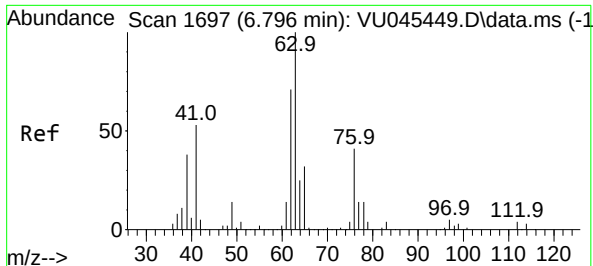
Tgt Ion: 41	Resp: 2532
Ion Ratio	Lower Upper
41 100	
39 27.1	43.4 65.0#
67 0.0	61.0 91.4#
52 0.0	23.4 35.0#



#43
Isopropyl Acetate
Concen: 4.195 ug/l
RT: 5.912 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Tgt Ion: 43	Resp: 29463
Ion Ratio	Lower Upper
43 100	
61 20.4	16.9 25.3
87 12.9	11.0 16.4





#45

1,2-Dichloropropane

Concen: 0.738 ug/l

RT: 7.044 min Scan# 1

Delta R.T. 0.248 min

Lab File: VU045469.D

Acq: 29 Oct 2021 17:17

Instrument :

MSVOA_U

ClientSampleId :

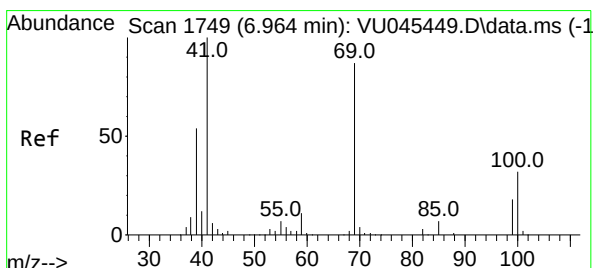
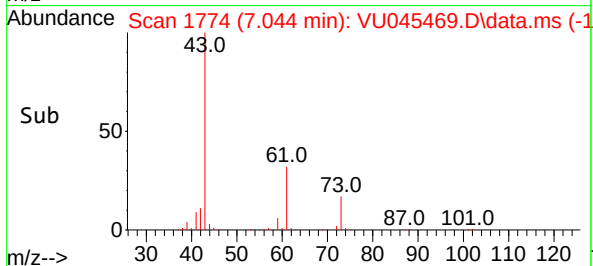
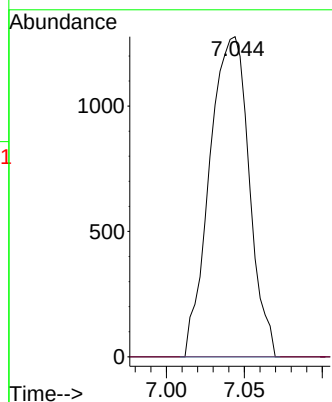
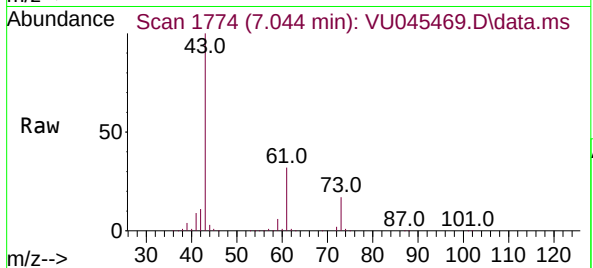
MH-FFS

Tgt Ion: 63 Resp: 2251

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 2.824 ug/l

RT: 6.896 min Scan# 1728

Delta R.T. -0.068 min

Lab File: VU045469.D

Acq: 29 Oct 2021 17:17

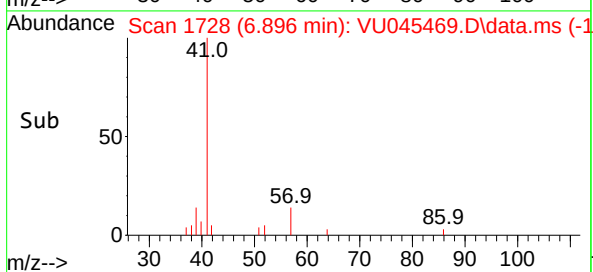
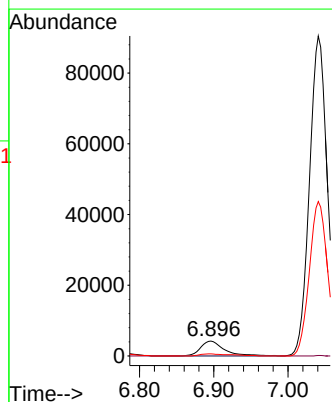
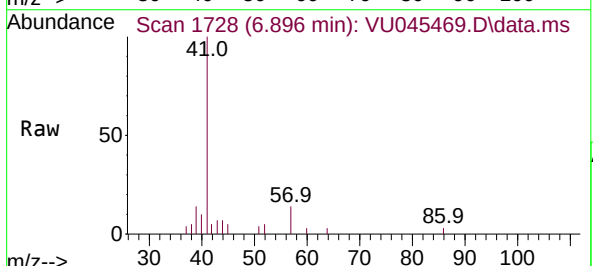
Tgt Ion: 41 Resp: 9402

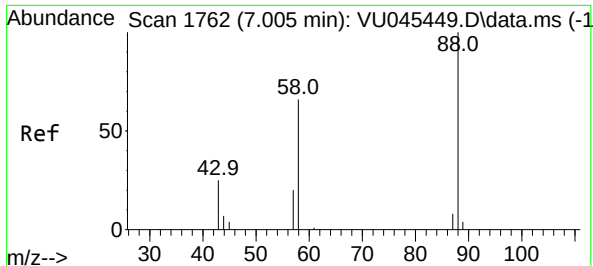
Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.2#

39 0.0 43.9 65.9#





#49

1,4-Dioxane

Concen: 3.014 ug/l

RT: 7.025 min Scan# 1

Delta R.T. 0.019 min

Lab File: VU045469.D

Acq: 29 Oct 2021 17:17

Instrument :

MSVOA_U

ClientSampleId :

MH-FFS

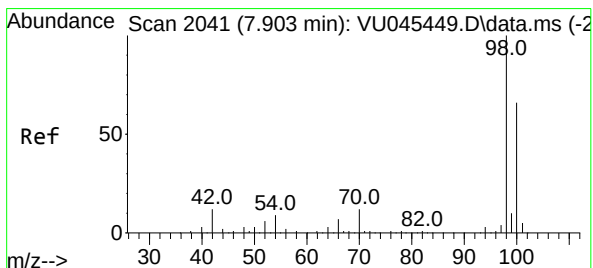
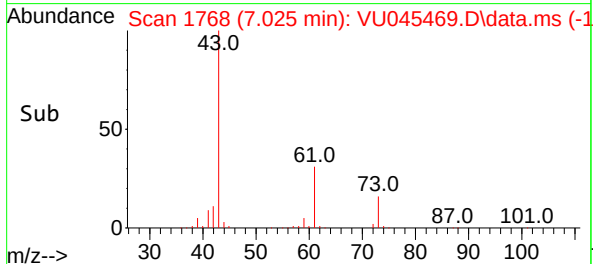
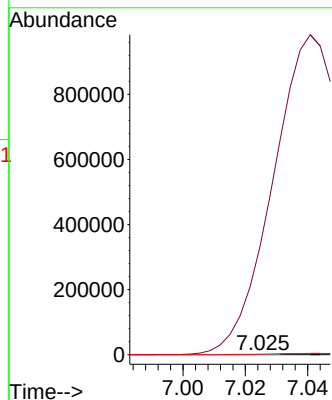
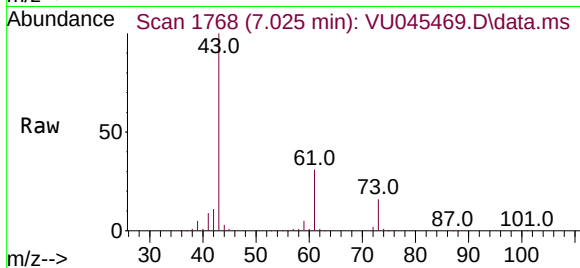
Tgt Ion: 88 Resp: 255

Ion Ratio Lower Upper

88 100

43 658869.8 0.0 0.0#

58 2869.8 58.7 88.1#



#50

Toluene-d8

Concen: 51.372 ug/l

RT: 7.902 min Scan# 2041

Delta R.T. -0.000 min

Lab File: VU045469.D

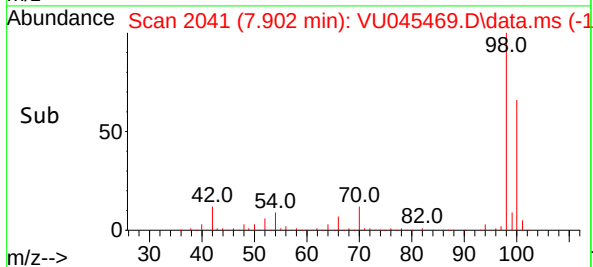
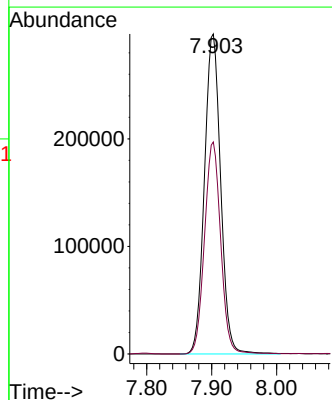
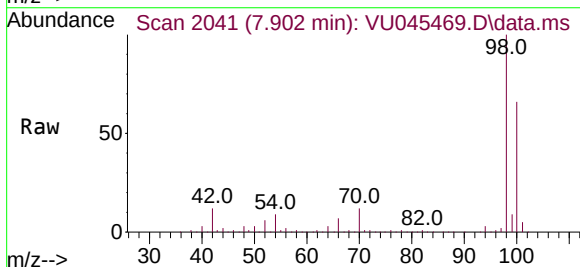
Acq: 29 Oct 2021 17:17

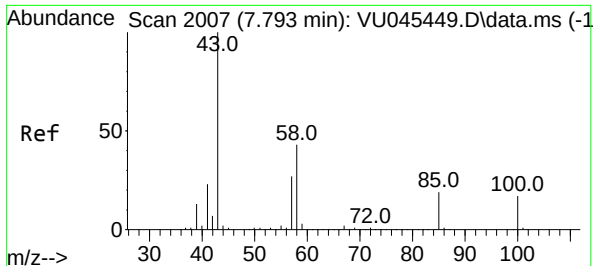
Tgt Ion: 98 Resp: 517826

Ion Ratio Lower Upper

98 100

100 66.1 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 1.669 ug/l

RT: 7.793 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VU045469.D

Acq: 29 Oct 2021 17:17

Instrument :

MSVOA_U

ClientSampleId :

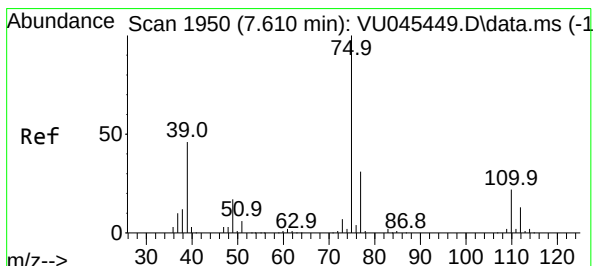
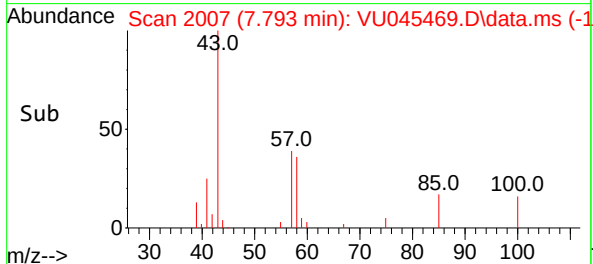
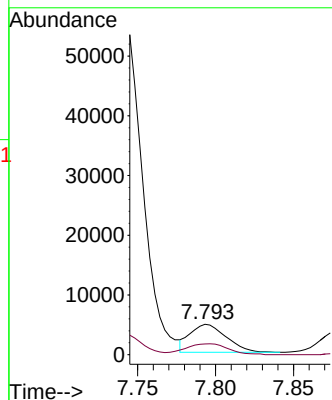
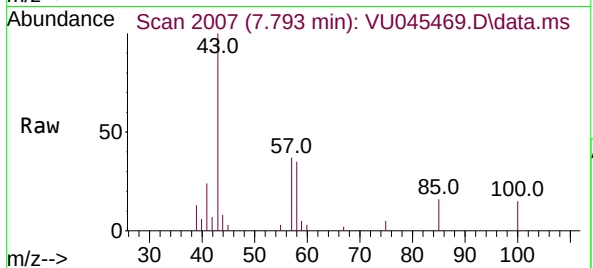
MH-FFS

Tgt Ion: 43 Resp: 7575

Ion Ratio Lower Upper

43 100

58 45.9 33.8 50.8



#54

cis-1,3-Dichloropropene

Concen: 10.677 ug/l

RT: 7.742 min Scan# 1991

Delta R.T. 0.132 min

Lab File: VU045469.D

Acq: 29 Oct 2021 17:17

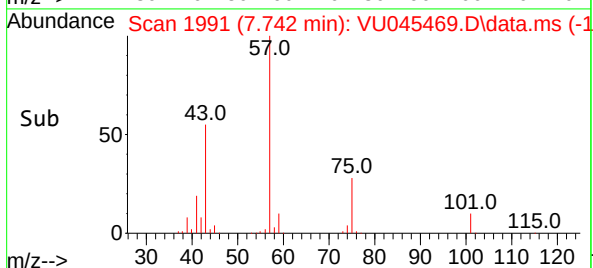
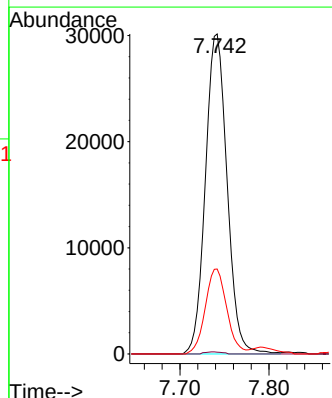
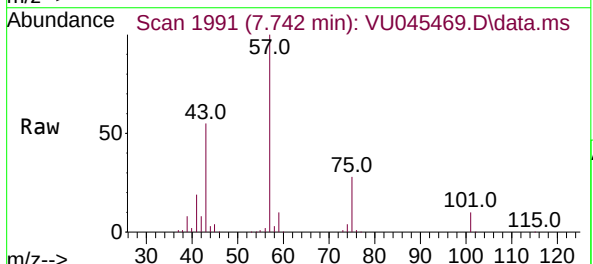
Tgt Ion: 75 Resp: 50913

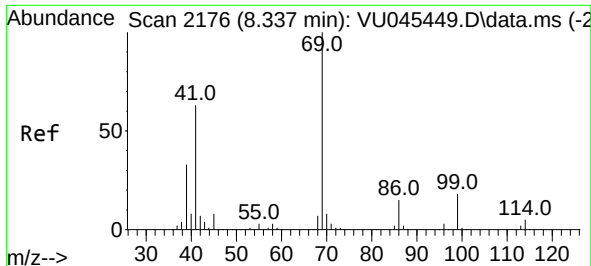
Ion Ratio Lower Upper

75 100

77 0.6 24.6 37.0#

39 26.5 37.1 55.7#

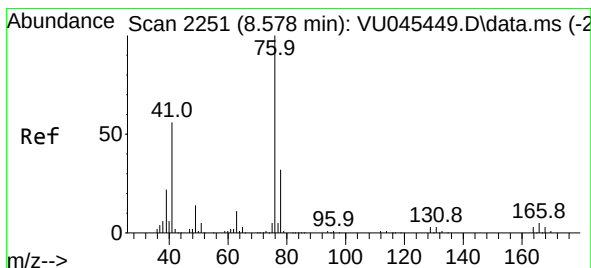
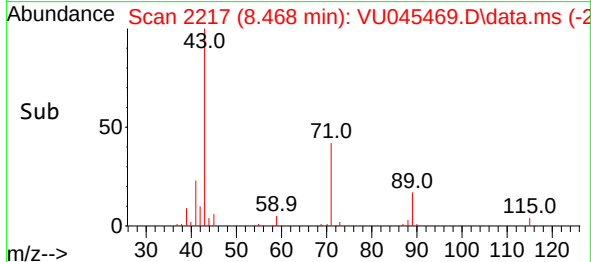
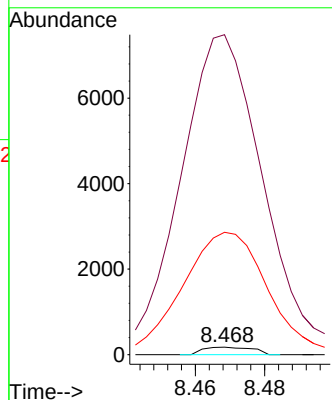
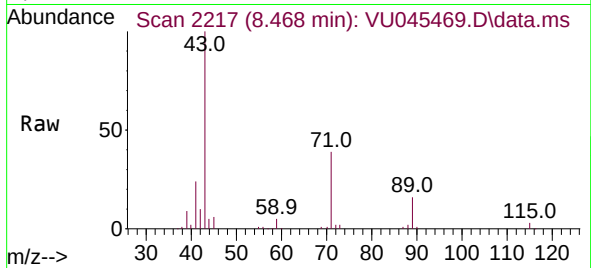




#56
Ethyl methacrylate
Concen: 1.673 ug/l
RT: 8.468 min Scan# 2176
Delta R.T. 0.131 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

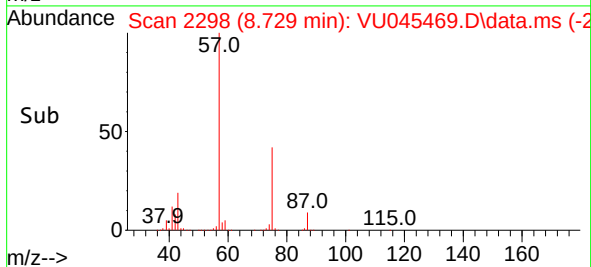
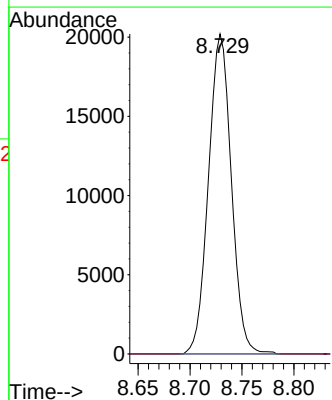
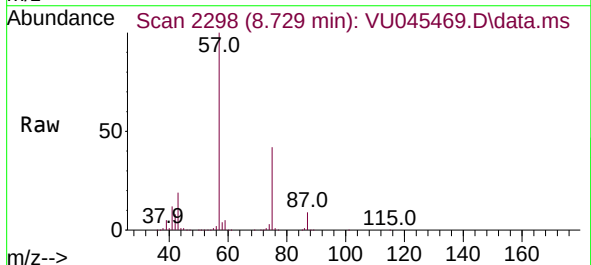
Instrument :
MSVOA_U
ClientSampleId :
MH-FFS

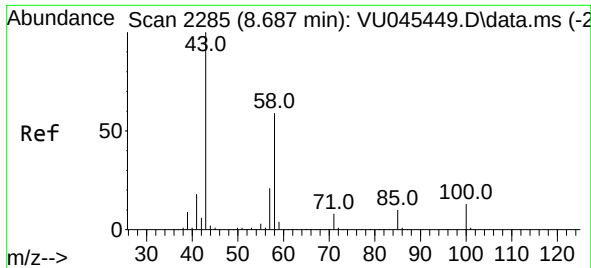
Tgt Ion: 69 Resp: 174
Ion Ratio Lower Upper
69 100
41 7321.3 51.0 76.4#
39 2887.4 26.6 39.8#



#57
1,3-Dichloropropane
Concen: 6.051 ug/l
RT: 8.729 min Scan# 2298
Delta R.T. 0.151 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Tgt Ion: 76 Resp: 30897
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

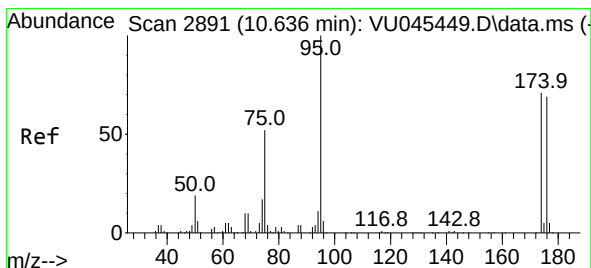
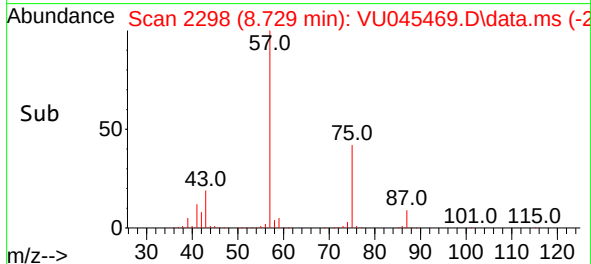
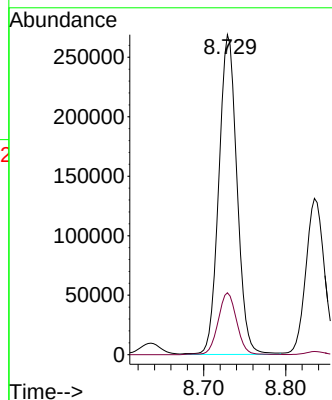
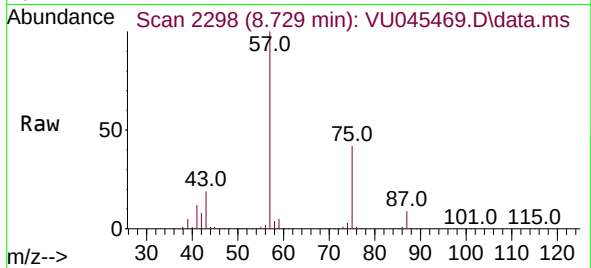




#59
2-Hexanone
Concen: 117.959 ug/l
RT: 8.729 min Scan# 21
Delta R.T. 0.042 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

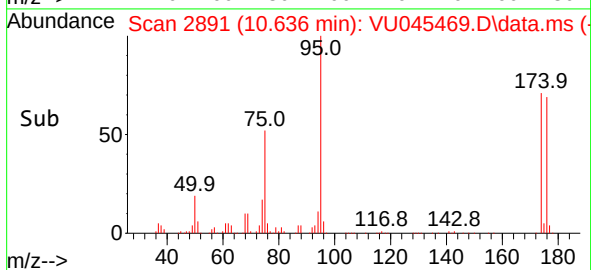
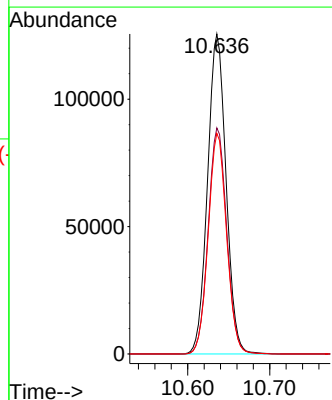
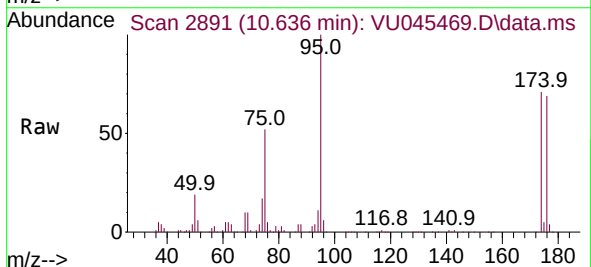
Instrument :
MSVOA_U
ClientSampleId :
MH-FFS

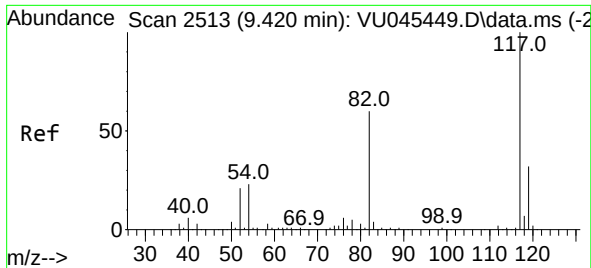
Tgt Ion: 43 Resp: 414888
Ion Ratio Lower Upper
43 100
58 19.8 29.5 88.6#



#62
4-Bromofluorobenzene
Concen: 51.158 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Tgt Ion: 95 Resp: 196500
Ion Ratio Lower Upper
95 100
174 71.0 0.0 141.8
176 68.5 0.0 138.2

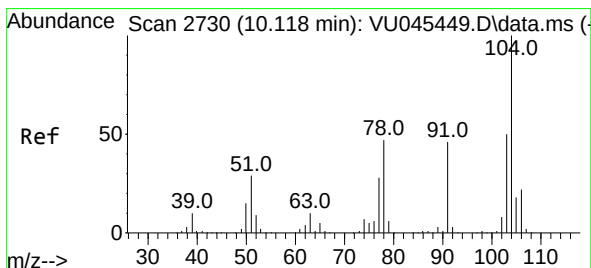
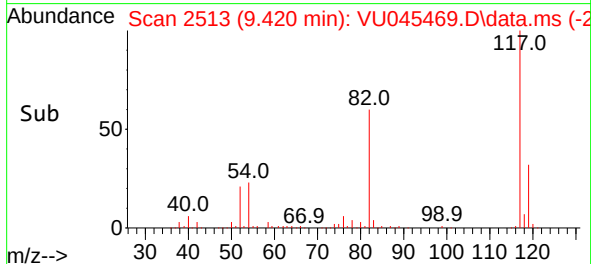
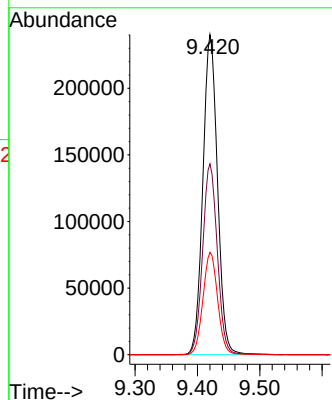
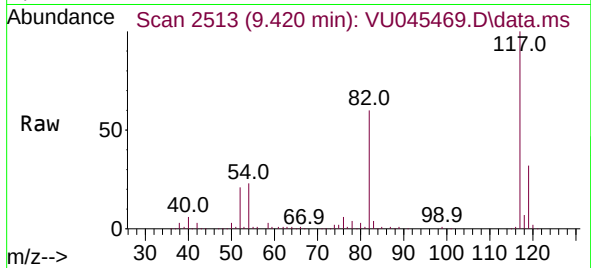




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

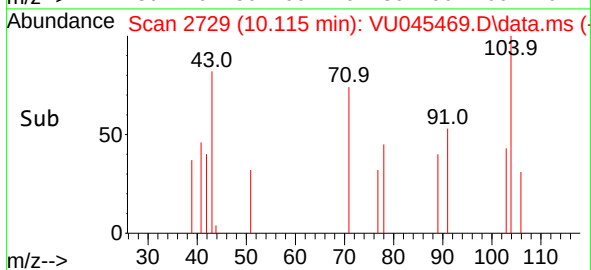
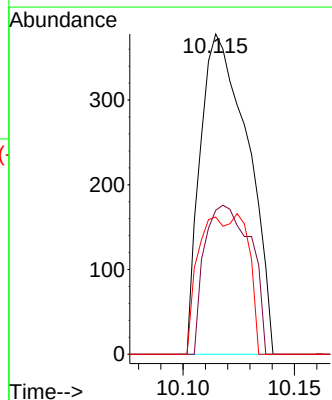
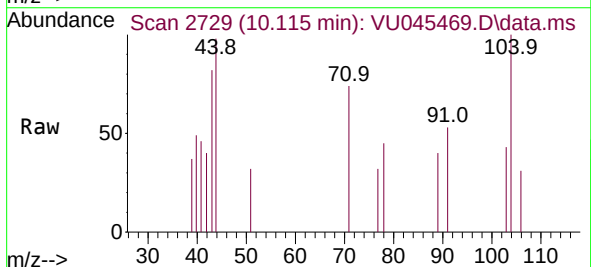
Instrument :
MSVOA_U
ClientSampleId :
MH-FFS

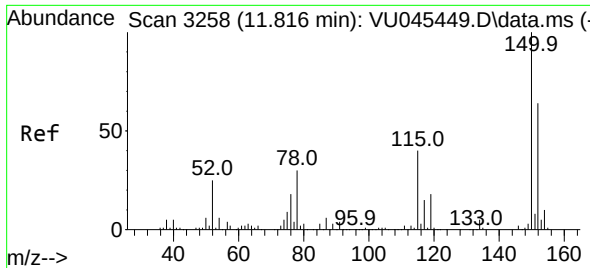
Tgt Ion:117 Resp: 392283
Ion Ratio Lower Upper
117 100
82 59.7 47.8 71.8
119 32.0 25.8 38.8



#70
Styrene
Concen: 1.035 ug/l
RT: 10.115 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Tgt Ion:104 Resp: 559
Ion Ratio Lower Upper
104 100
78 45.3 41.8 62.6
103 24.5 43.8 65.6#

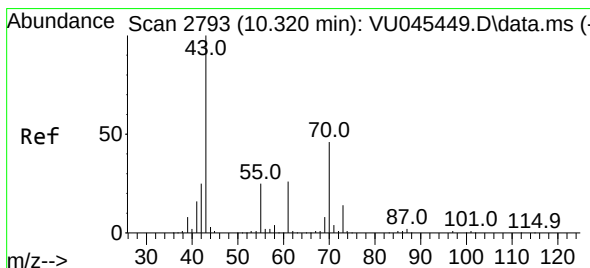
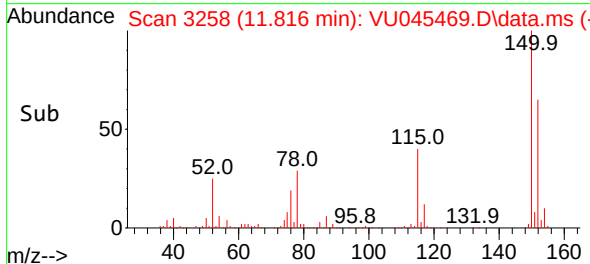
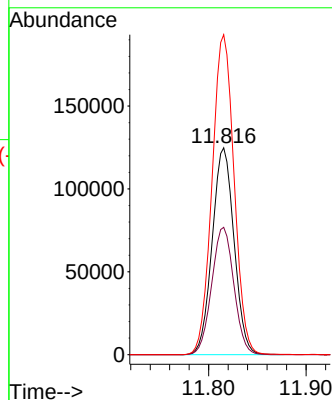
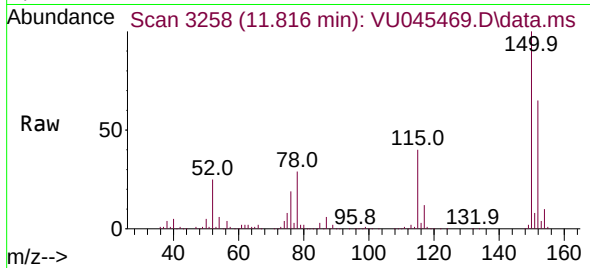




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

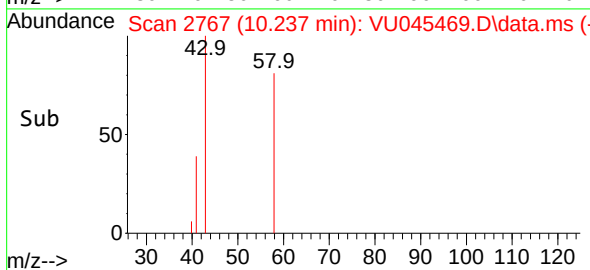
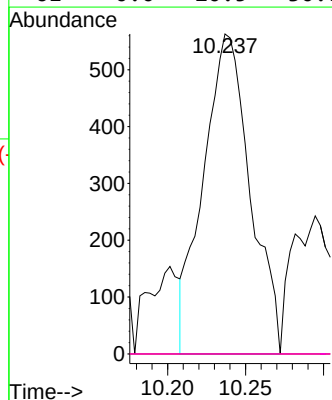
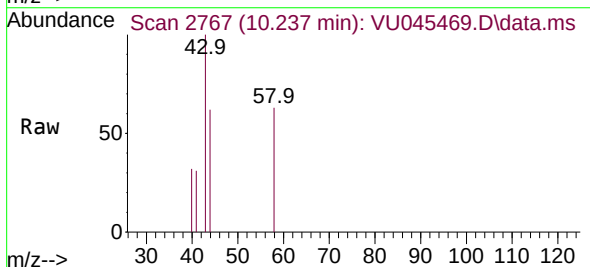
Instrument :
MSVOA_U
ClientSampleId :
MH-FFS

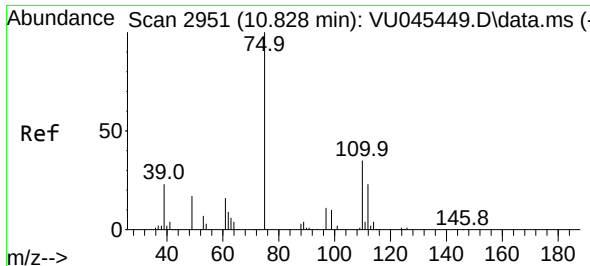
Tgt Ion:152 Resp: 194636
Ion Ratio Lower Upper
152 100
115 62.4 42.7 128.1
150 155.8 0.0 346.8



#74
N-ethyl acetate
Concen: 1.324 ug/l
RT: 10.237 min Scan# 2767
Delta R.T. -0.083 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Tgt Ion: 43 Resp: 1176
Ion Ratio Lower Upper
43 100
70 0.0 36.9 55.3#
55 0.0 20.6 31.0#
61 0.0 20.5 30.7#

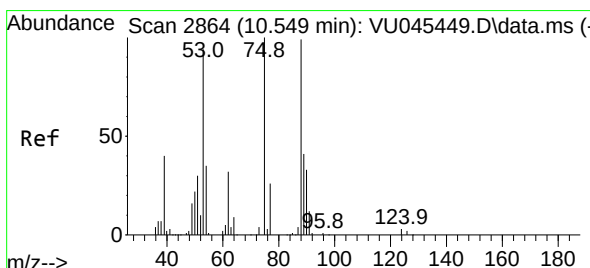
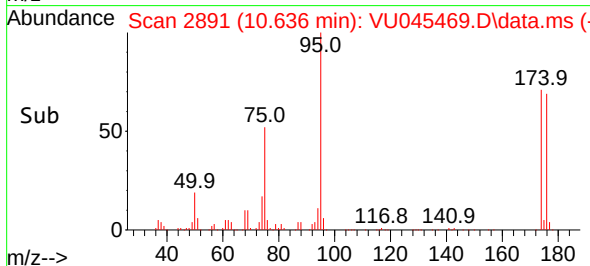
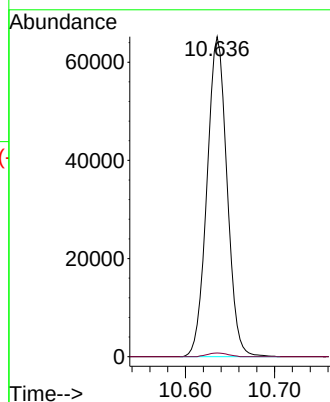
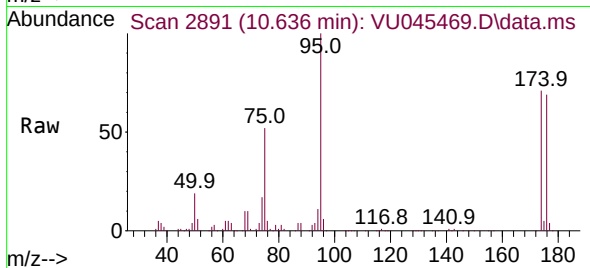




#76
1,2,3-Trichloropropane
Concen: 19.631 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.193 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

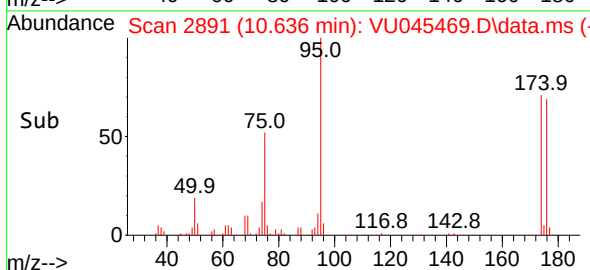
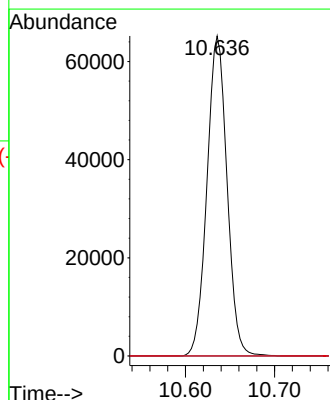
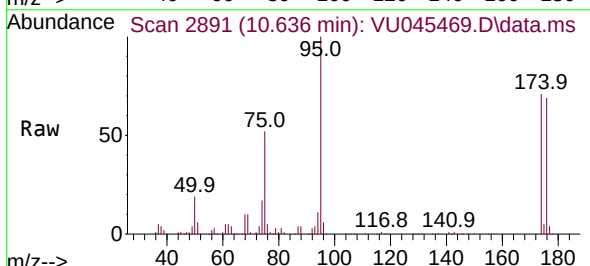
Instrument :
MSVOA_U
ClientSampleId :
MH-FFS

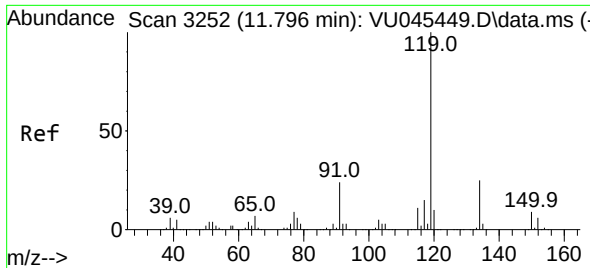
Tgt Ion: 75 Resp: 101804
Ion Ratio Lower Upper
75 100
77 1.2 17.1 51.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 54.577 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.087 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Tgt Ion: 75 Resp: 101804
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.4#
89 0.0 34.0 51.0#

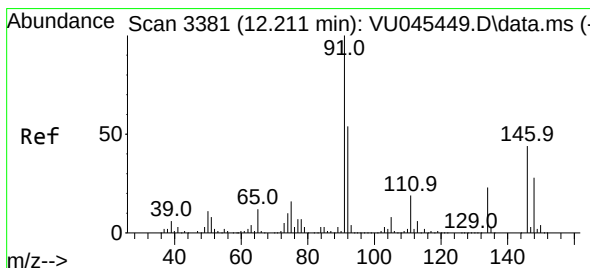
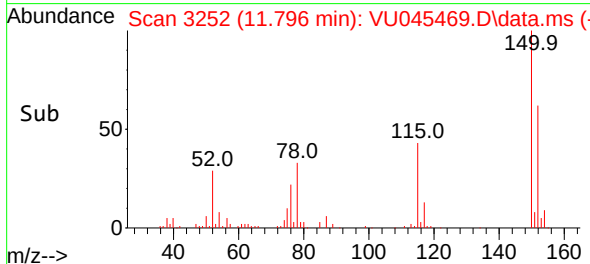
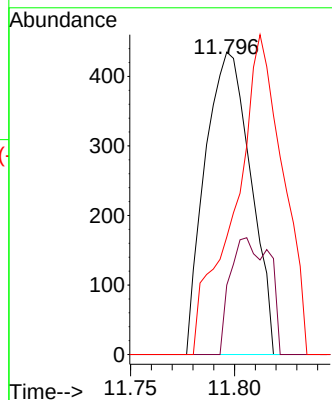
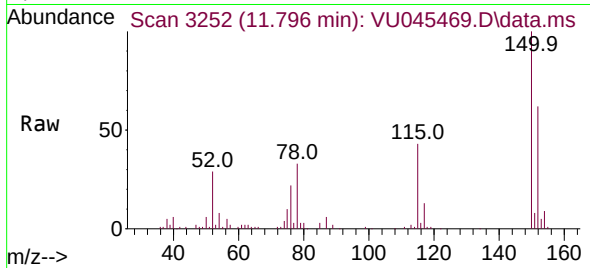




#86
 p-Isopropyltoluene
 Concen: 0.241 ug/l
 RT: 11.796 min Scan# 3252
 Delta R.T. 0.000 min
 Lab File: VU045469.D
 Acq: 29 Oct 2021 17:17

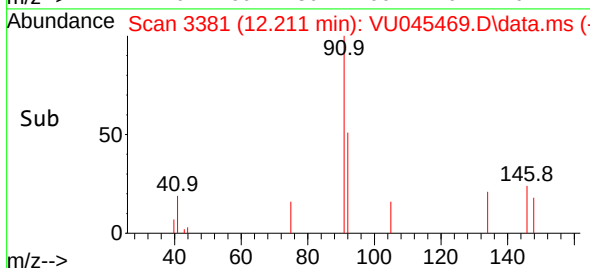
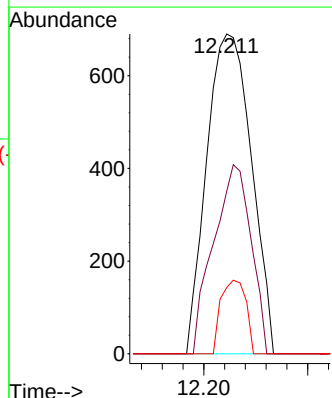
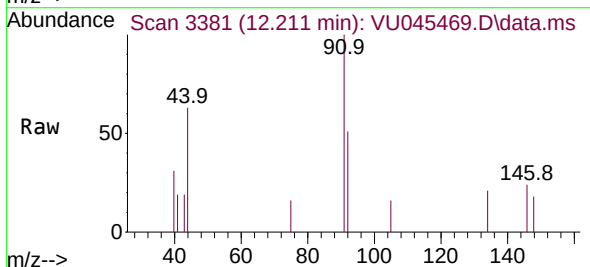
Instrument :
 MSVOA_U
 ClientSampleId :
 MH-FFS

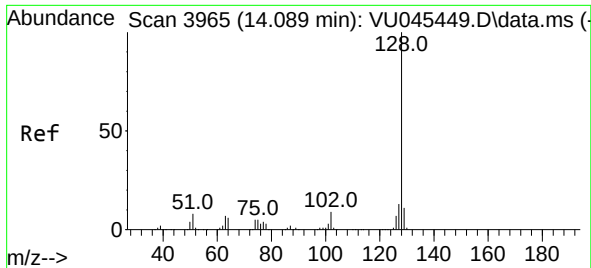
Tgt Ion:	119	Resp:	663
Ion	Ratio	Lower	Upper
119	100		
134	33.0	12.7	38.1
91	111.9	12.2	36.4#



#89
 n-Butylbenzene
 Concen: 1.022 ug/l
 RT: 12.211 min Scan# 3381
 Delta R.T. 0.000 min
 Lab File: VU045469.D
 Acq: 29 Oct 2021 17:17

Tgt Ion:	91	Resp:	1031
Ion	Ratio	Lower	Upper
91	100		
92	49.7	27.1	81.2
134	12.8	11.8	35.4





#95
Naphthalene
Concen: 0.209 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU045469.D
Acq: 29 Oct 2021 17:17

Instrument :
MSVOA_U
ClientSampleId :
MH-FFS

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.1	10.6	15.8#
129	6.0	8.6	13.0#

