

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU112221\
 Data File : VU045922.D
 Acq On : 22 Nov 2021 18:17
 Operator : SY/MD
 Sample : PB140933ZHE#07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 23 05:17:57 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U110521W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 05 13:35:16 2021
 Response via : Initial Calibration

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

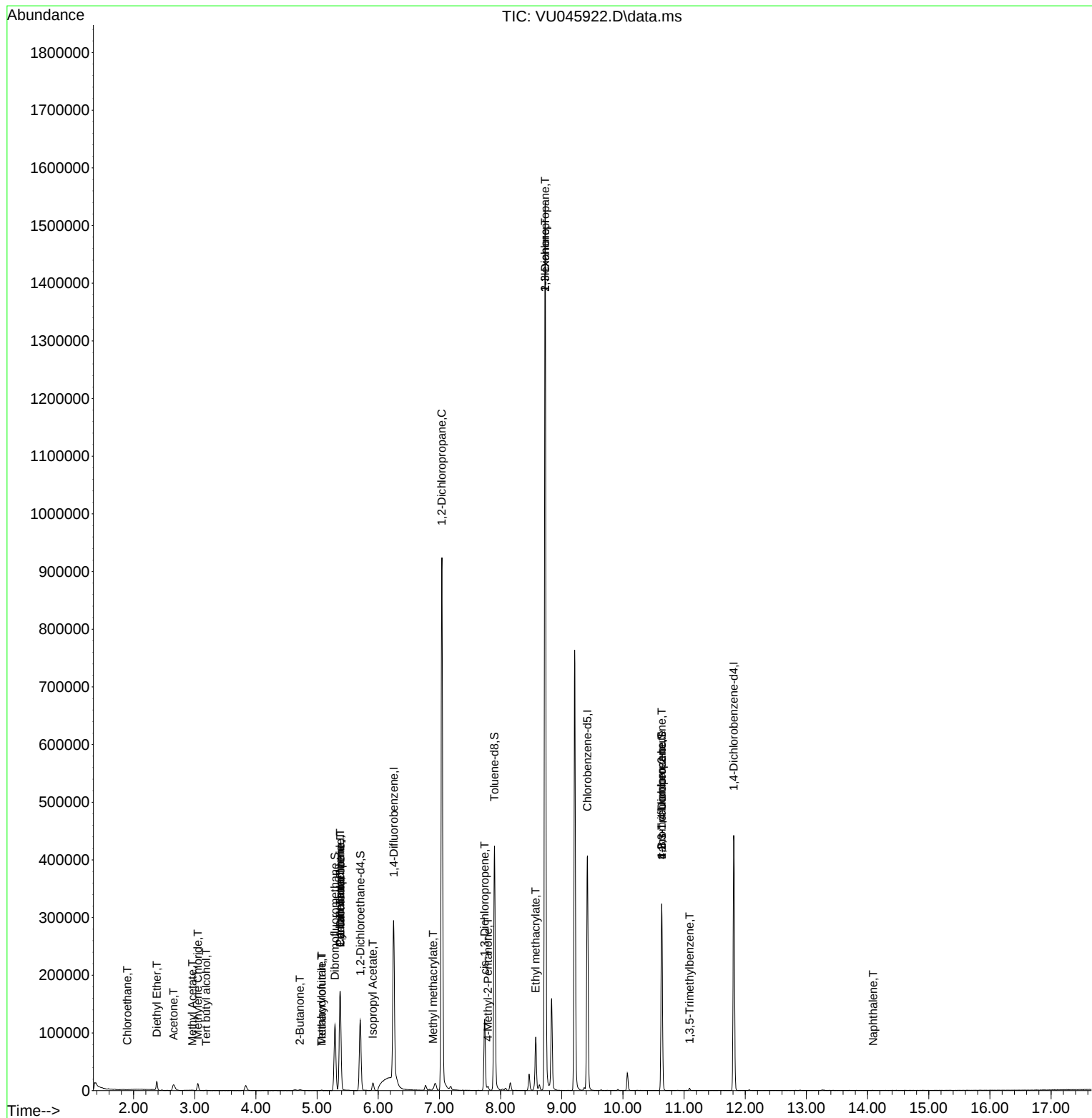
Internal Standards						
1) Pentafluorobenzene	5.378	168	113888	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	218038	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	227030	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	112743	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	90533	53.080	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 106.160%	
35) Dibromofluoromethane	5.292	113	73800	50.696	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.400%	
50) Toluene-d8	7.899	98	283768	52.423	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 104.840%	
62) 4-Bromofluorobenzene	10.635	95	108431	49.954	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 99.900%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.896	64	215	0.200	ug/l #	41
8) Diethyl Ether	2.378	74	5542	6.433	ug/l	96
11) Tert butyl alcohol	3.186	59	379	1.123	ug/l #	72
16) Acetone	2.652	43	20275	23.352	ug/l	95
18) Methyl Acetate	2.960	43	1372	0.464	ug/l #	50
20) Methylene Chloride	3.050	84	5879	3.897	ug/l	96
25) 2-Butanone	4.716	43	1584	1.315	ug/l #	89
29) Tetrahydrofuran	5.073	42	461	0.626	ug/l #	66
31) Cyclohexane	5.375	56	2509	1.008	ug/l #	1
36) 1,1-Dichloropropene	5.378	75	9732	4.578	ug/l #	51
38) Carbon Tetrachloride	5.375	117	12347	5.760	ug/l #	17
41) Methacrylonitrile	5.076	41	344	0.267	ug/l #	22
43) Isopropyl Acetate	5.912	43	14096	3.774	ug/l	100
45) 1,2-Dichloropropane	7.037	63	1160	0.696	ug/l #	43
48) Methyl methacrylate	6.896	41	4713	2.741	ug/l #	13
51) 4-Methyl-2-Pentanone	7.793	43	3731	1.514	ug/l	98
54) cis-1,3-Dichloropropene	7.738	75	22715	8.498	ug/l #	61
56) Ethyl methacrylate	8.574	69	888	2.719	ug/l #	1
57) 1,3-Dichloropropane	8.729	76	15544	5.404	ug/l #	42
59) 2-Hexanone	8.729	43	199921	97.967	ug/l #	49
76) 1,2,3-Trichloropropane	10.635	75	57846	16.919	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.089	105	2543	0.395	ug/l	96
81) trans-1,4-Dichloro-2-b...	10.635	75	57846	55.100	ug/l #	12
95) Naphthalene	14.092	128	94	1.039	ug/l #	69

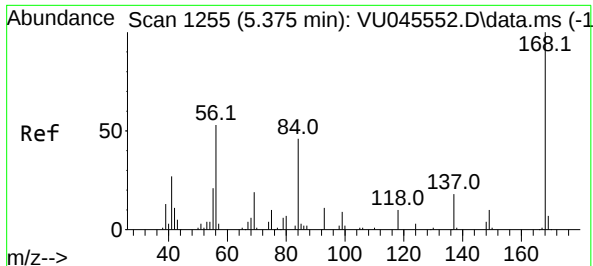
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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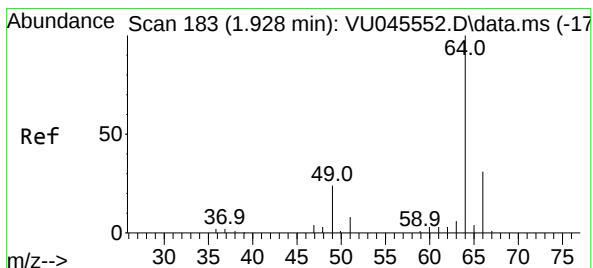
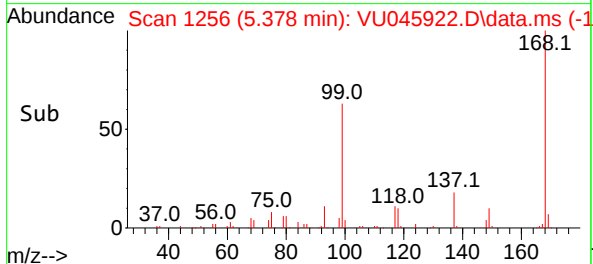
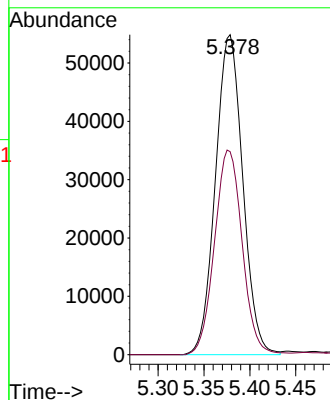
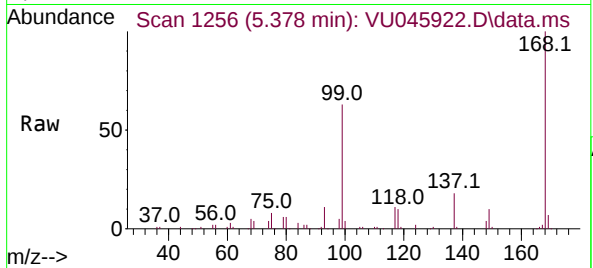




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

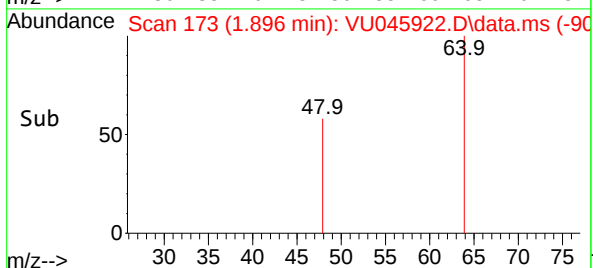
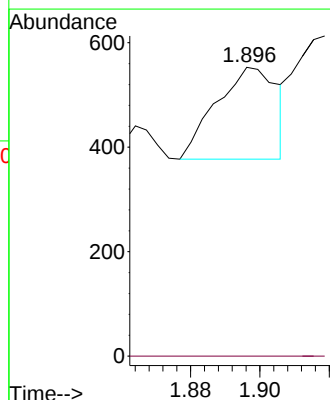
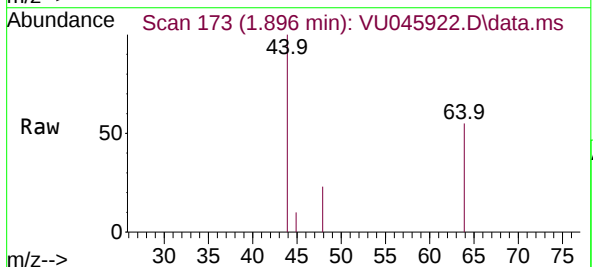
Instrument :
MSVOA_U
ClientSampleId :

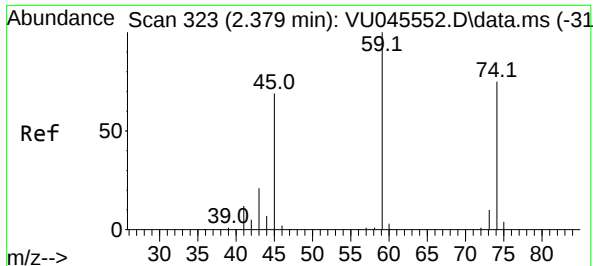
Tgt Ion:168 Resp: 113888
Ion Ratio Lower Upper
168 100
99 63.5 51.0 76.6



#6
Chloroethane
Concen: 0.200 ug/l
RT: 1.896 min Scan# 173
Delta R.T. -0.032 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

Tgt Ion: 64 Resp: 215
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#





#8

Diethyl Ether

Concen: 6.433 ug/l

RT: 2.378 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

Instrument :

MSVOA_U

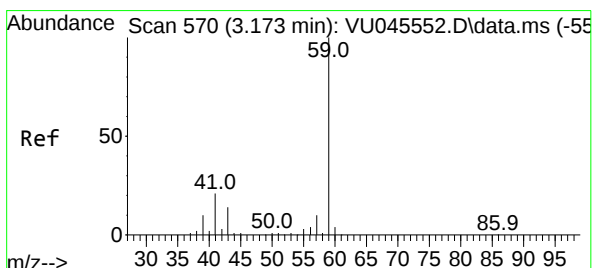
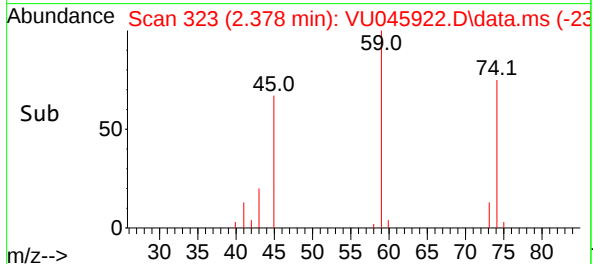
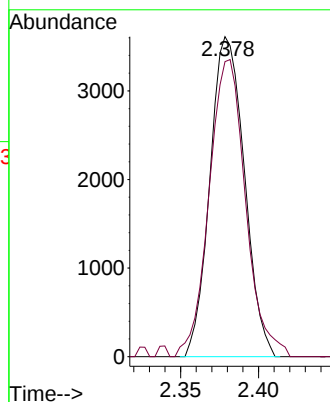
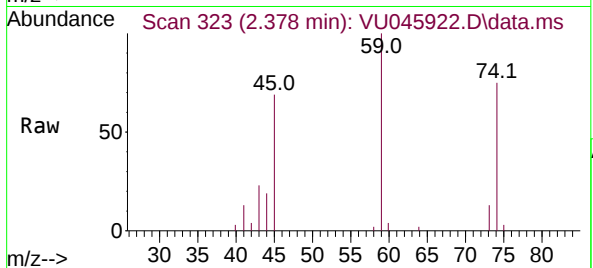
ClientSampleId :

Tgt Ion: 74 Resp: 5542

Ion Ratio Lower Upper

74 100

45 98.2 47.3 141.8



#11

Tert butyl alcohol

Concen: 1.123 ug/l

RT: 3.186 min Scan# 574

Delta R.T. 0.013 min

Lab File: VU045922.D

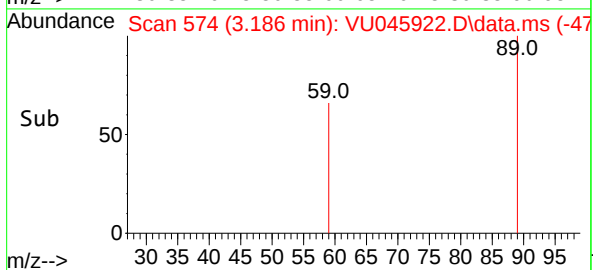
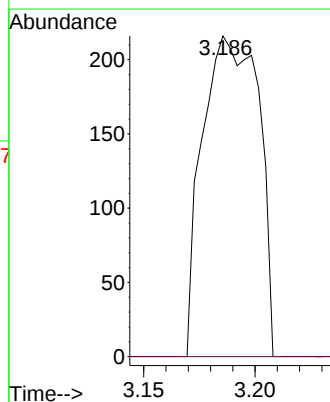
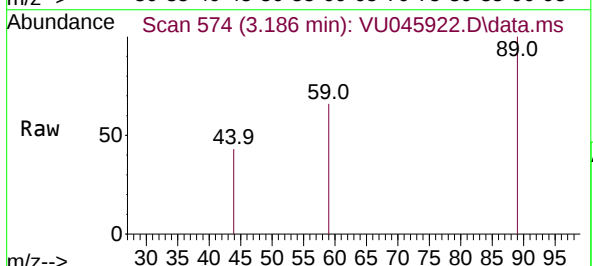
Acq: 22 Nov 2021 18:17

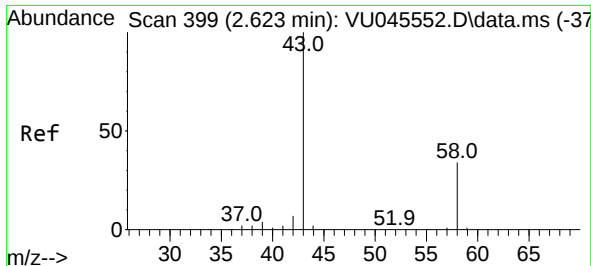
Tgt Ion: 59 Resp: 379

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#





#16

Acetone

Concen: 23.352 ug/l

RT: 2.652 min Scan# 408

Delta R.T. 0.029 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

Instrument :

MSVOA_U

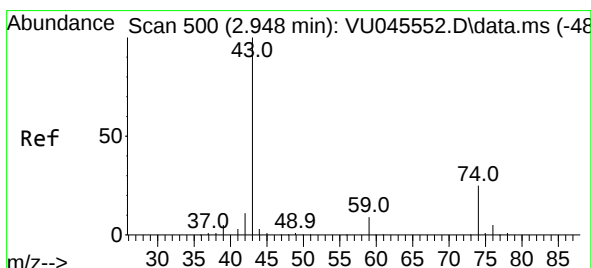
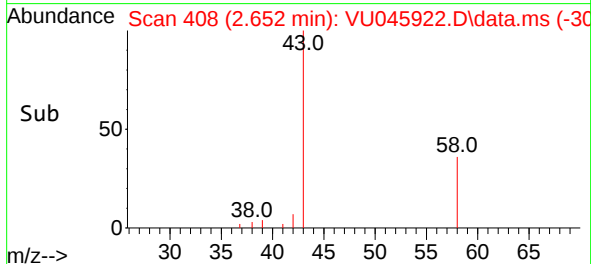
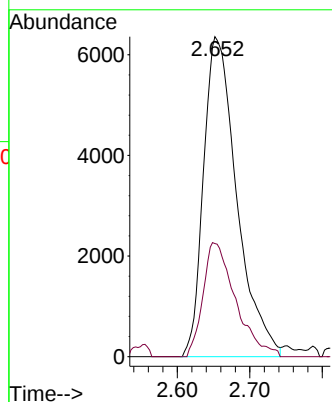
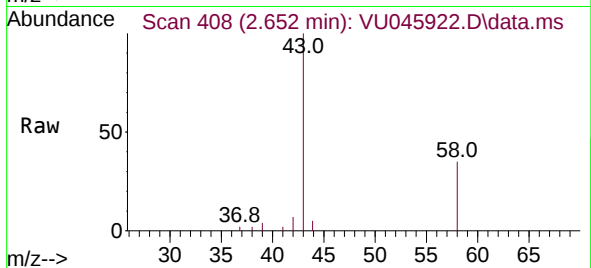
ClientSampleId :

Tgt Ion: 43 Resp: 20275

Ion Ratio Lower Upper

43 100

58 35.4 26.2 39.2



#18

Methyl Acetate

Concen: 0.464 ug/l

RT: 2.960 min Scan# 504

Delta R.T. 0.013 min

Lab File: VU045922.D

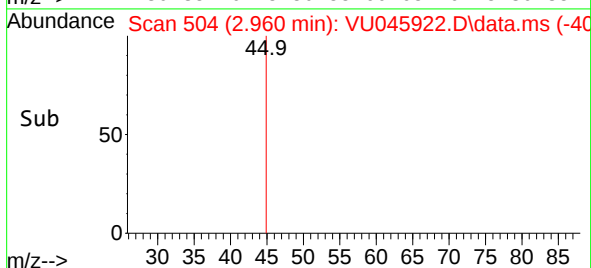
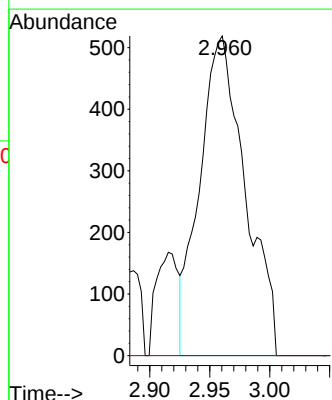
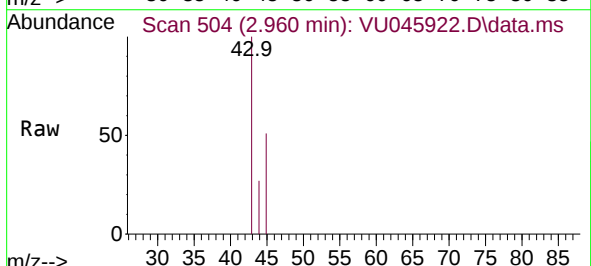
Acq: 22 Nov 2021 18:17

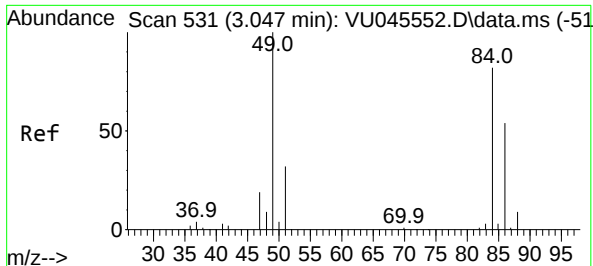
Tgt Ion: 43 Resp: 1372

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#





#20

Methylene Chloride

Concen: 3.897 ug/l

RT: 3.050 min Scan# 51

Delta R.T. 0.003 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 84 Resp: 5879

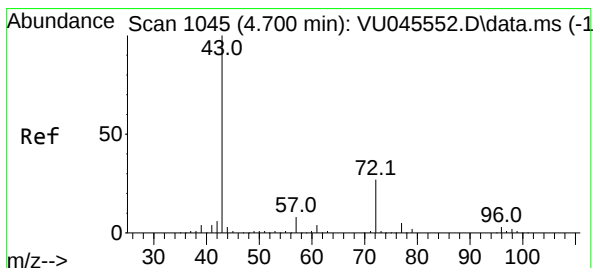
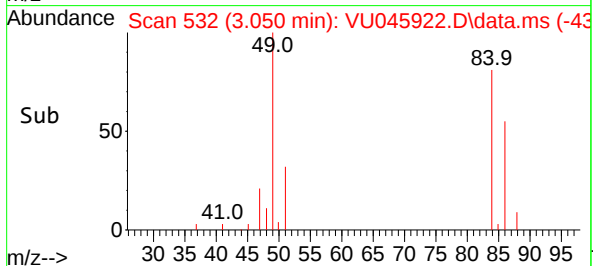
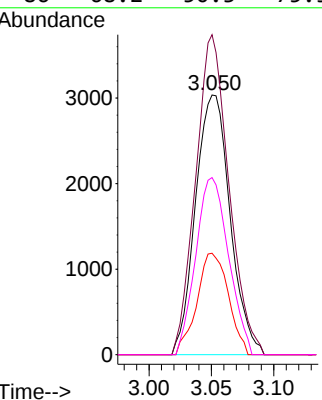
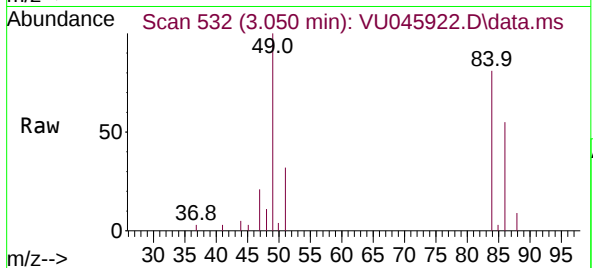
Ion Ratio Lower Upper

84 100

49 123.3 96.4 144.6

51 39.1 30.5 45.7

86 68.2 50.3 75.5



#25

2-Butanone

Concen: 1.315 ug/l

RT: 4.716 min Scan# 1050

Delta R.T. 0.016 min

Lab File: VU045922.D

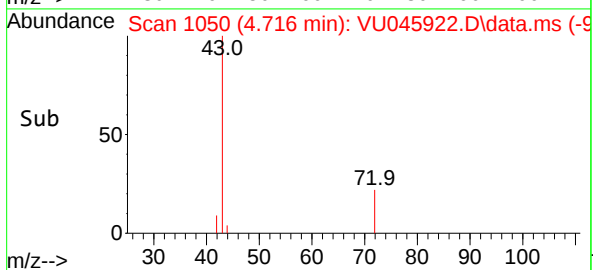
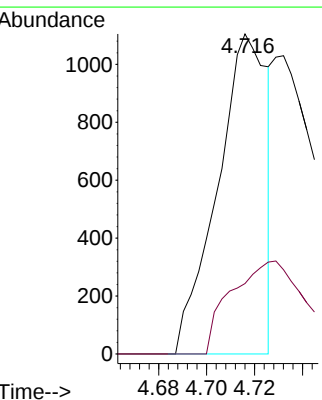
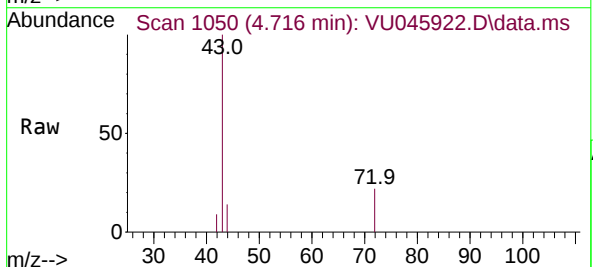
Acq: 22 Nov 2021 18:17

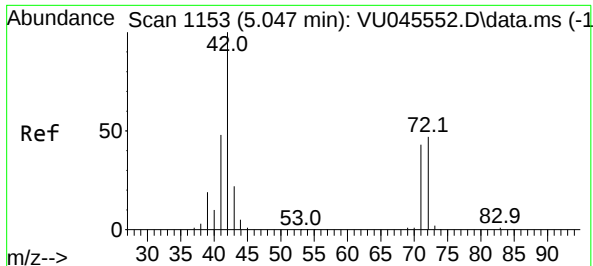
Tgt Ion: 43 Resp: 1584

Ion Ratio Lower Upper

43 100

72 22.0 22.0 33.0#





#29

Tetrahydrofuran

Concen: 0.626 ug/l

RT: 5.073 min Scan# 1161

Delta R.T. 0.026 min

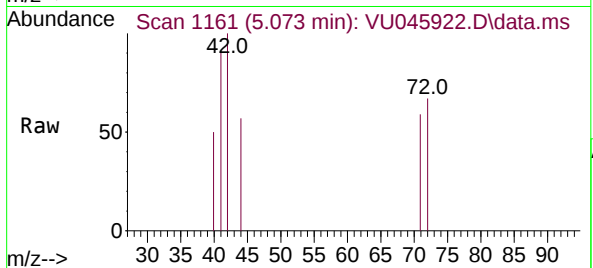
Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

Instrument :

MSVOA_U

ClientSampleId :



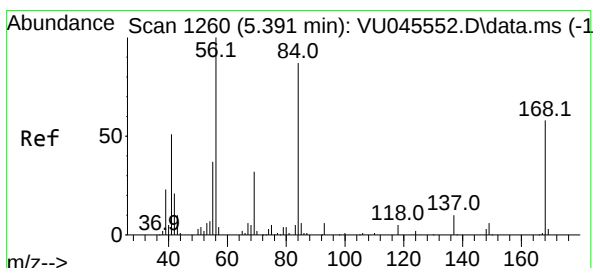
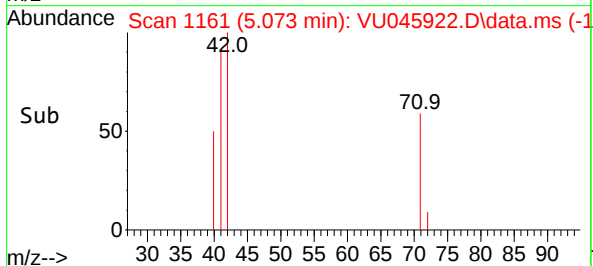
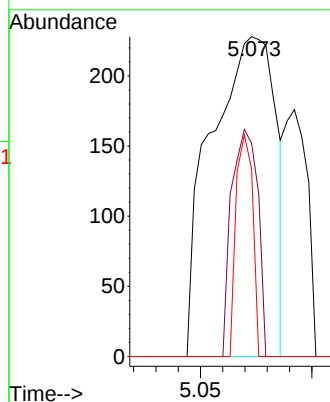
Tgt Ion: 42 Resp: 461

Ion Ratio Lower Upper

42 100

72 28.6 38.2 57.4#

71 17.8 35.4 53.2#



#31

Cyclohexane

Concen: 1.008 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.016 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

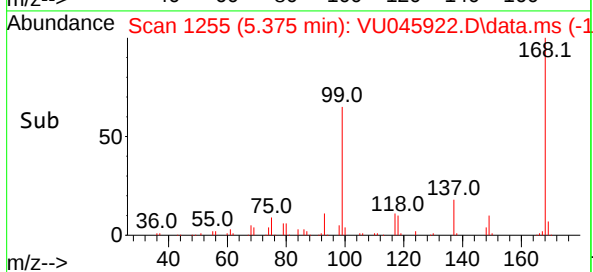
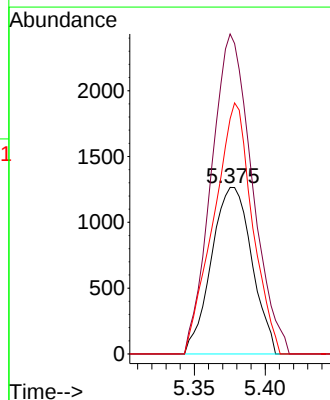
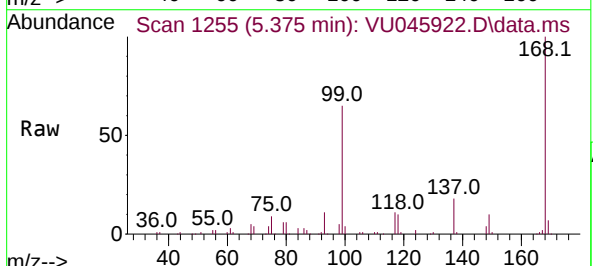
Tgt Ion: 56 Resp: 2509

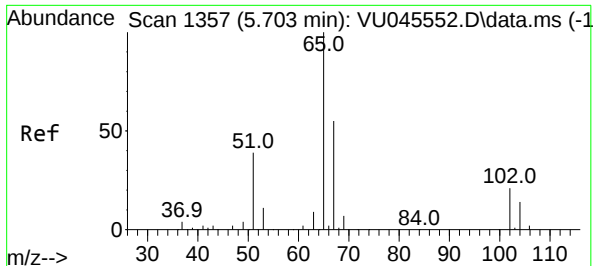
Ion Ratio Lower Upper

56 100

69 192.2 26.4 39.6#

84 141.3 68.4 102.6#





#33

1,2-Dichloroethane-d4

Concen: 53.080 ug/l

RT: 5.706 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

Instrument :

MSVOA_U

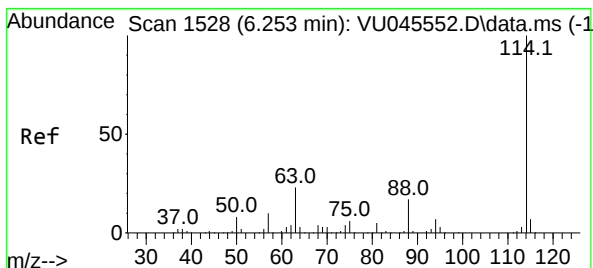
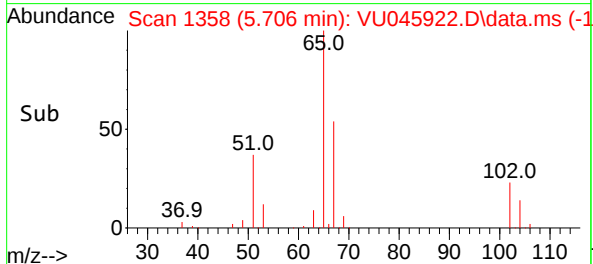
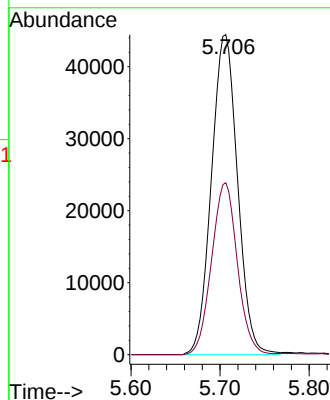
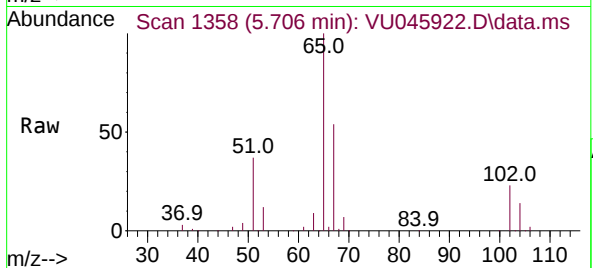
ClientSampleId :

Tgt Ion: 65 Resp: 90533

Ion Ratio Lower Upper

65 100

67 53.0 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: VU045922.D

Acq: 22 Nov 2021 18:17

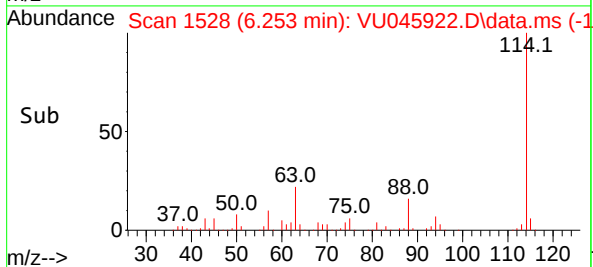
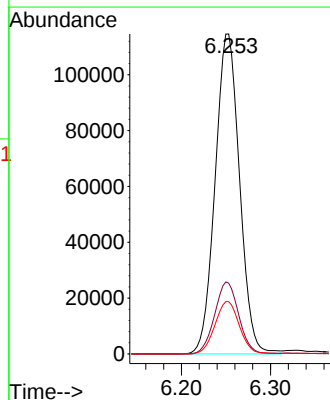
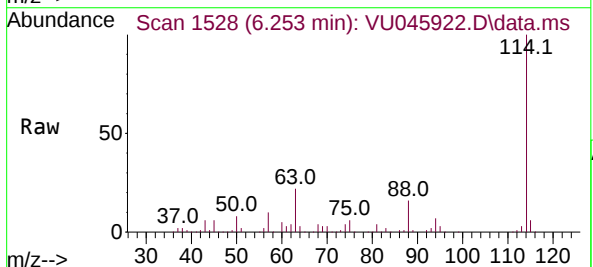
Tgt Ion: 114 Resp: 218038

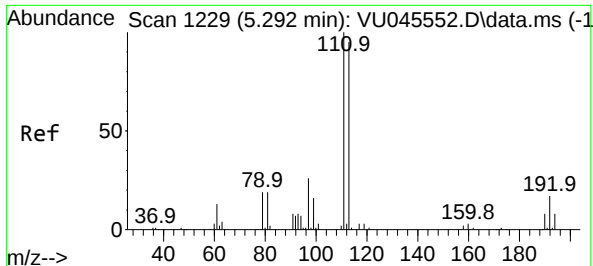
Ion Ratio Lower Upper

114 100

63 22.1 0.0 45.6

88 16.4 0.0 33.8





#35

Dibromofluoromethane

Concen: 50.696 ug/l

RT: 5.292 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

Instrument :

MSVOA_U

ClientSampleId :

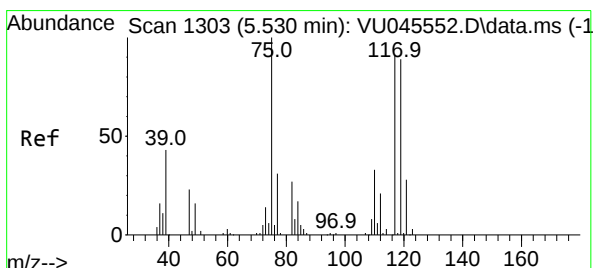
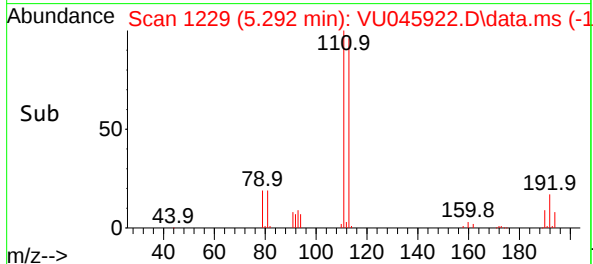
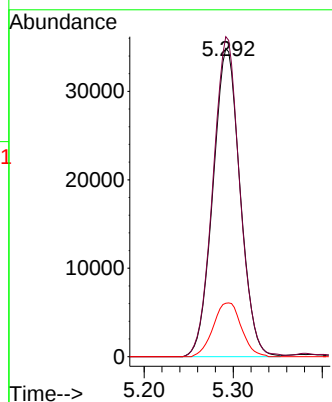
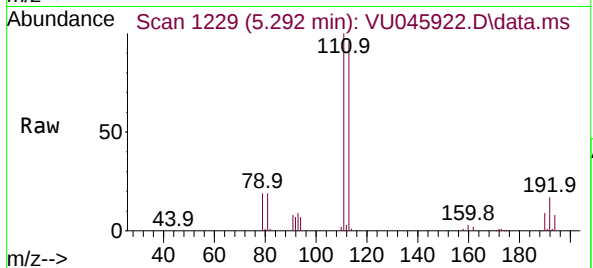
Tgt Ion:113 Resp: 73800

Ion Ratio Lower Upper

113 100

111 102.6 82.8 124.2

192 18.1 14.8 22.2



#36

1,1-Dichloropropene

Concen: 4.578 ug/l

RT: 5.378 min Scan# 1256

Delta R.T. -0.151 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

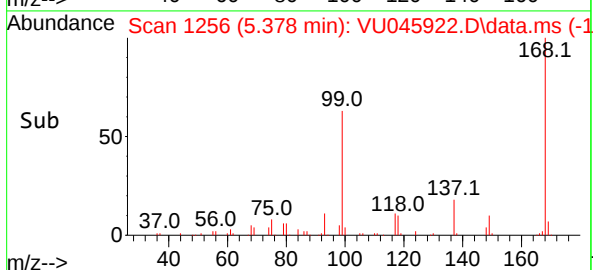
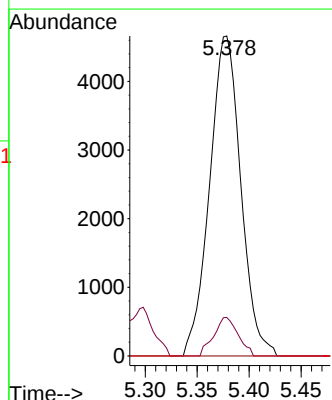
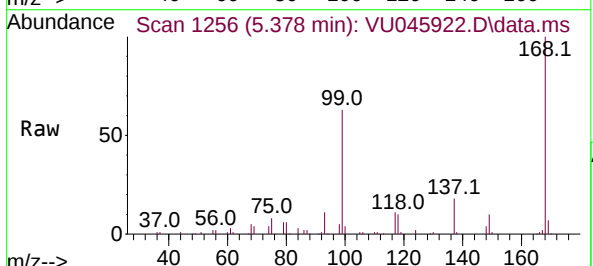
Tgt Ion: 75 Resp: 9732

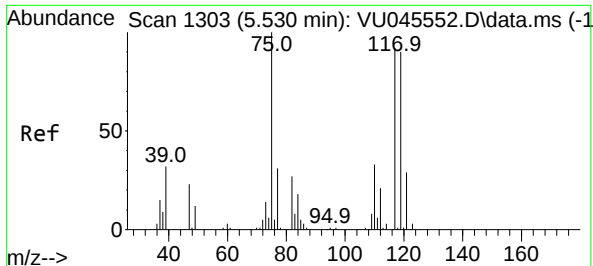
Ion Ratio Lower Upper

75 100

110 9.4 16.7 50.0#

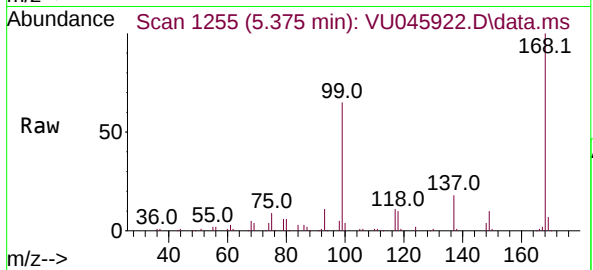
77 0.0 25.0 37.4#



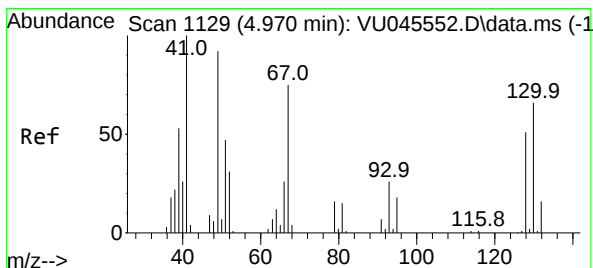
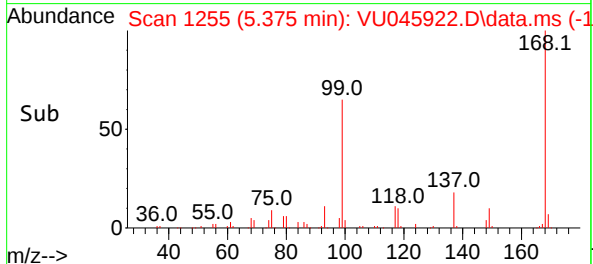
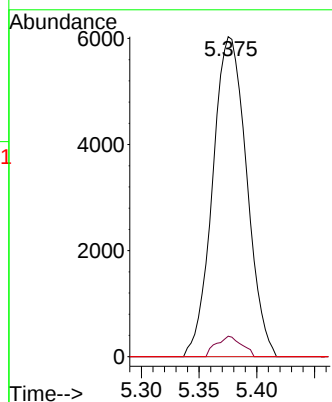


#38
Carbon Tetrachloride
Concen: 5.760 ug/l
RT: 5.375 min Scan# 1162
Delta R.T. -0.154 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

Instrument :
MSVOA_U
ClientSampleId :

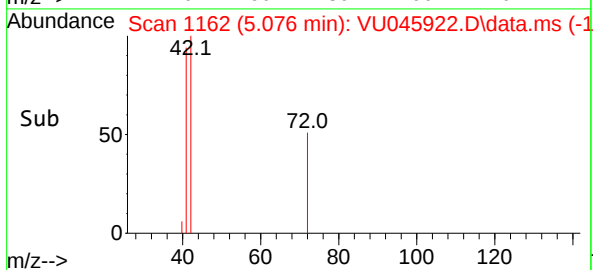
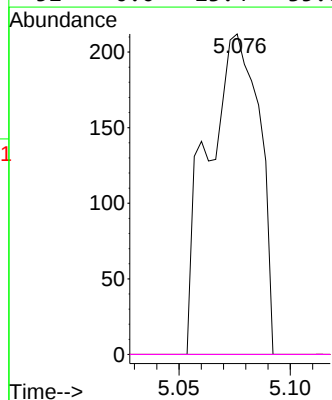
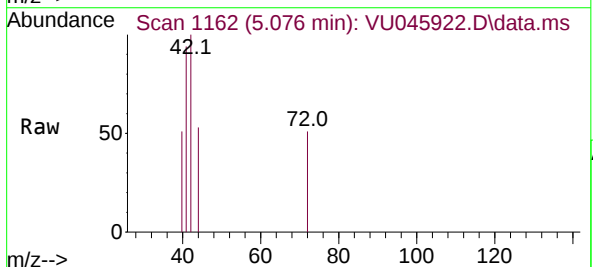


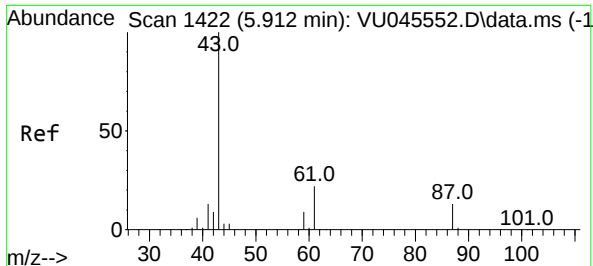
Tgt Ion:117 Resp: 12347
Ion Ratio Lower Upper
117 100
119 6.4 77.4 116.0#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 0.267 ug/l
RT: 5.076 min Scan# 1162
Delta R.T. 0.106 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

Tgt Ion: 41 Resp: 344
Ion Ratio Lower Upper
41 100
39 0.0 43.4 65.0#
67 0.0 61.0 91.4#
52 0.0 23.4 35.0#

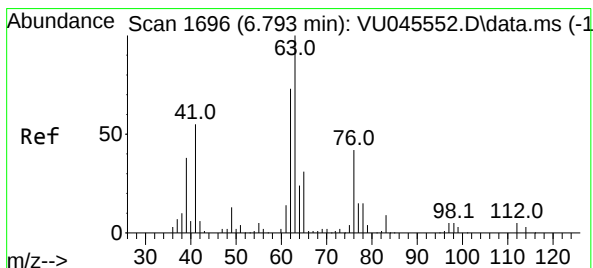
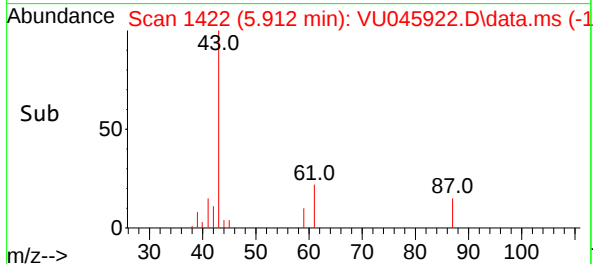
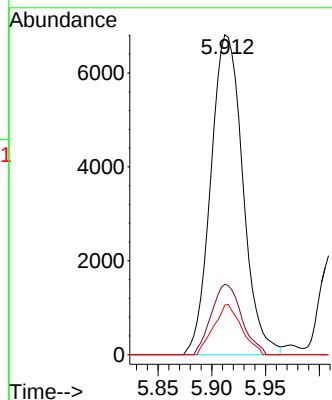
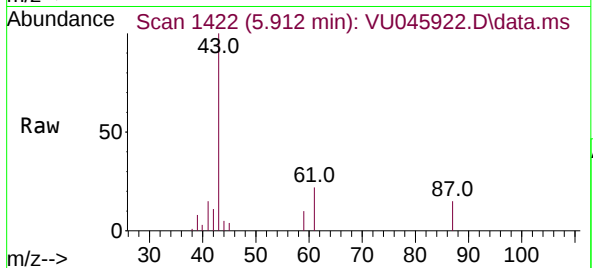




#43
Isopropyl Acetate
Concen: 3.774 ug/l
RT: 5.912 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

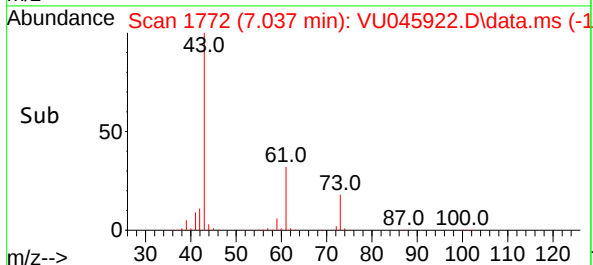
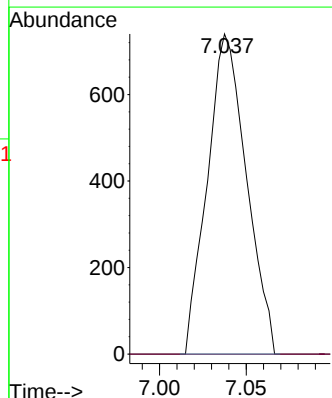
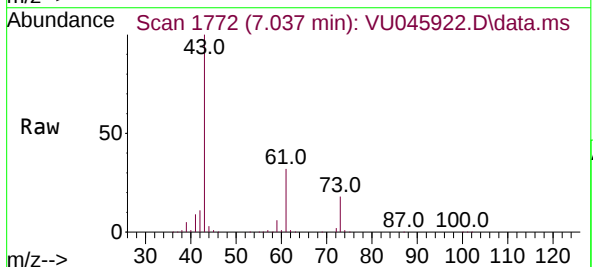
Instrument :
MSVOA_U
ClientSampleId :

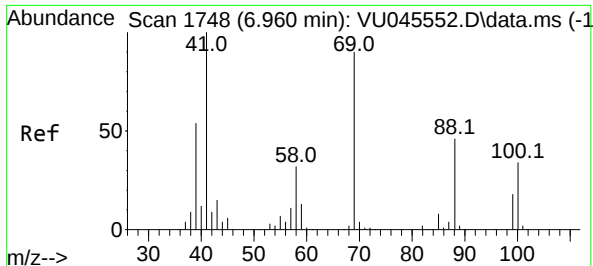
Tgt Ion: 43 Resp: 14096
Ion Ratio Lower Upper
43 100
61 20.8 16.9 25.3
87 13.6 11.0 16.4



#45
1,2-Dichloropropane
Concen: 0.696 ug/l
RT: 7.037 min Scan# 1772
Delta R.T. 0.244 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

Tgt Ion: 63 Resp: 1160
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#





#48

Methyl methacrylate

Concen: 2.741 ug/l

RT: 6.896 min Scan# 1

Delta R.T. -0.064 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

Instrument :

MSVOA_U

ClientSampleId :

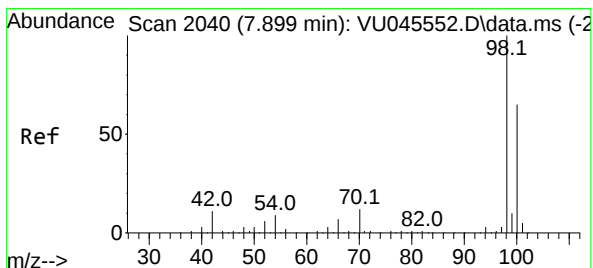
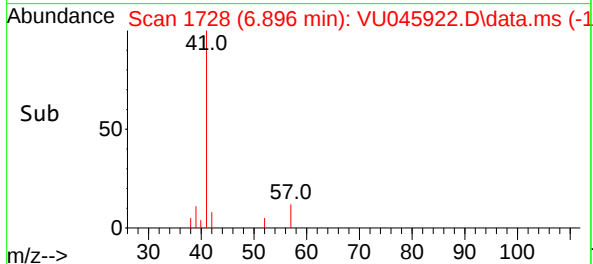
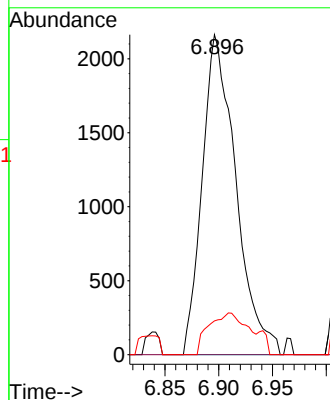
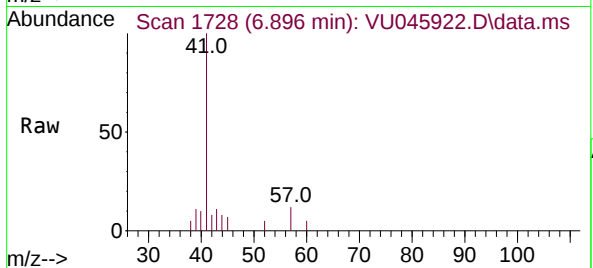
Tgt Ion: 41 Resp: 4713

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.2#

39 0.0 43.9 65.9#



#50

Toluene-d8

Concen: 52.423 ug/l

RT: 7.899 min Scan# 2040

Delta R.T. -0.000 min

Lab File: VU045922.D

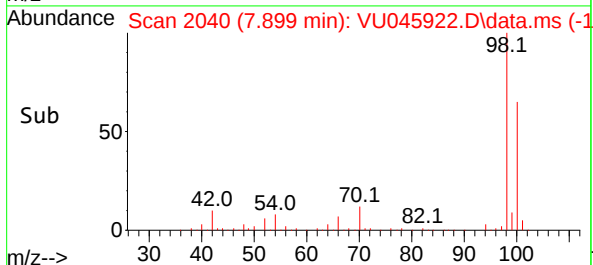
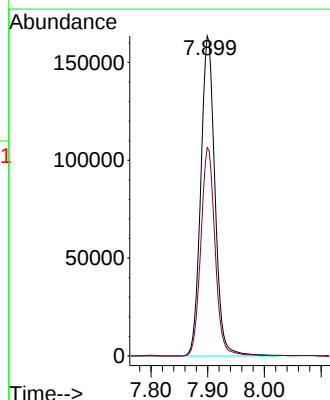
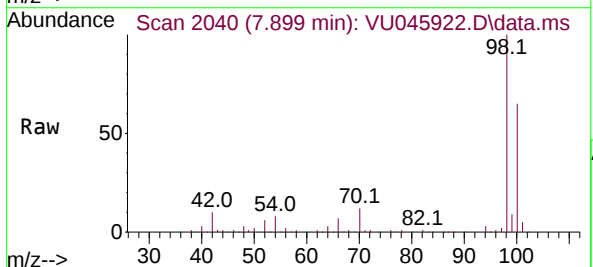
Acq: 22 Nov 2021 18:17

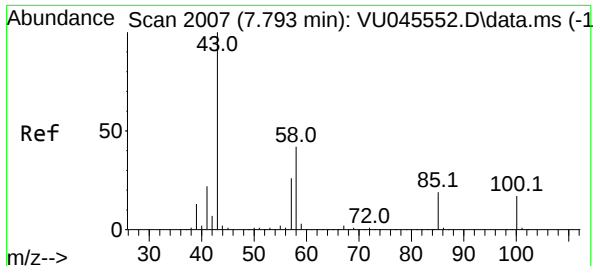
Tgt Ion: 98 Resp: 283768

Ion Ratio Lower Upper

98 100

100 65.6 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 1.514 ug/l

RT: 7.793 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

Instrument :

MSVOA_U

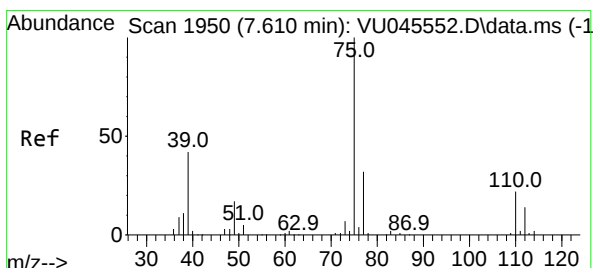
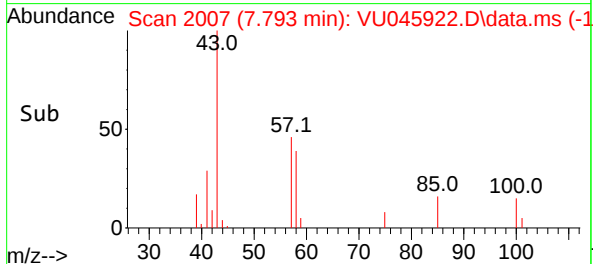
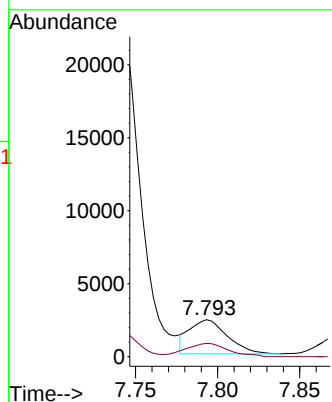
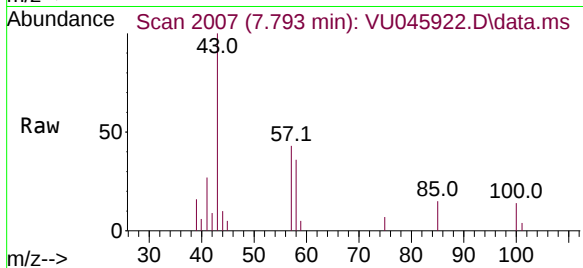
ClientSampleId :

Tgt Ion: 43 Resp: 3731

Ion Ratio Lower Upper

43 100

58 43.8 33.8 50.8



#54

cis-1,3-Dichloropropene

Concen: 8.498 ug/l

RT: 7.738 min Scan# 1990

Delta R.T. 0.128 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

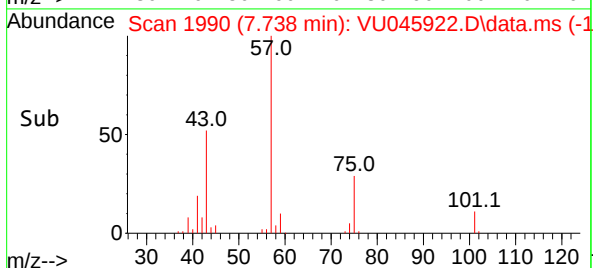
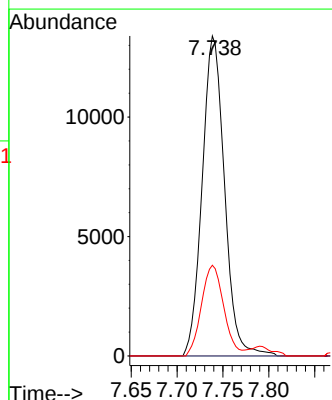
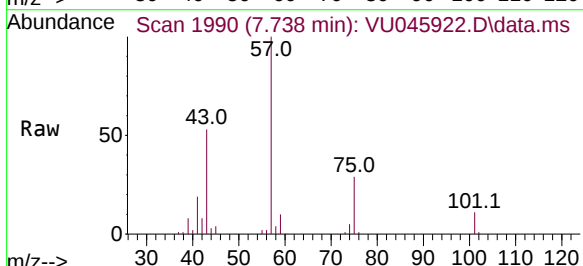
Tgt Ion: 75 Resp: 22715

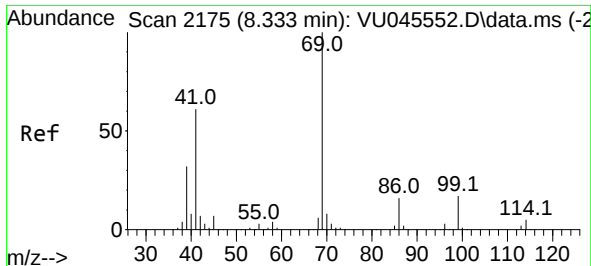
Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 28.3 37.1 55.7#

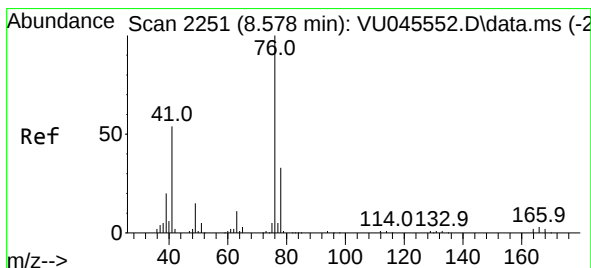
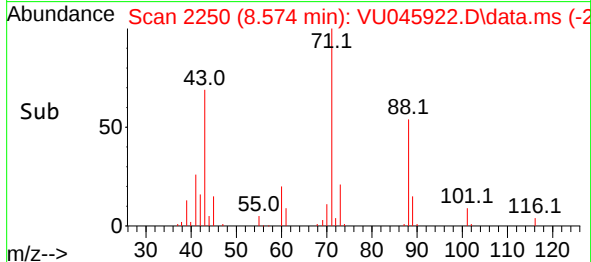
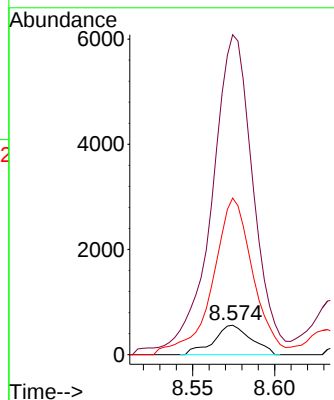
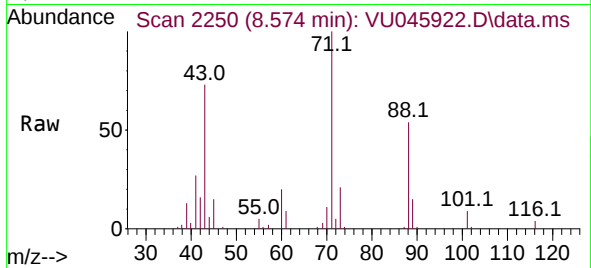




#56
Ethyl methacrylate
Concen: 2.719 ug/l
RT: 8.574 min Scan# 2175
Delta R.T. 0.241 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

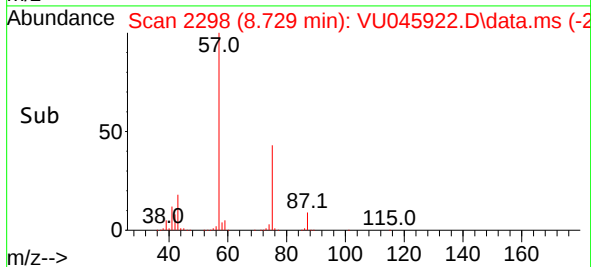
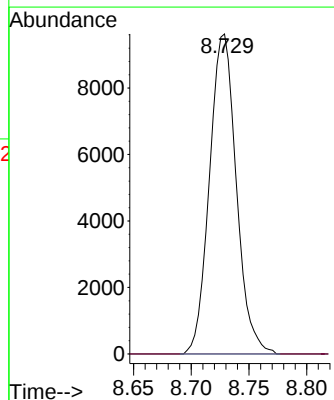
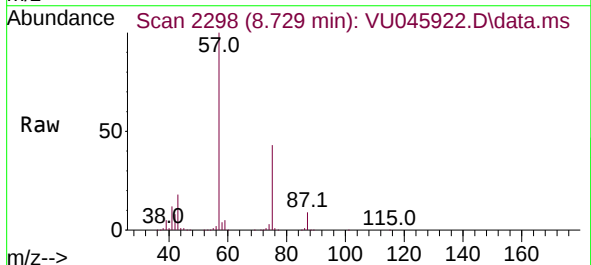
Instrument :
MSVOA_U
ClientSampleId :

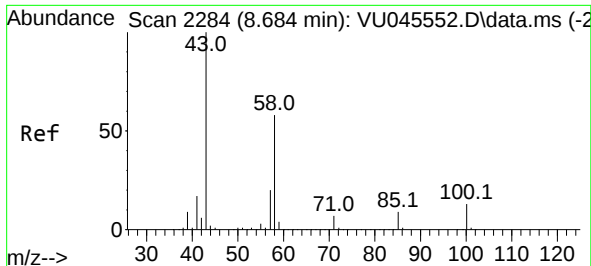
Tgt Ion: 69 Resp: 888
Ion Ratio Lower Upper
69 100
41 1213.2 51.0 76.4#
39 570.6 26.6 39.8#



#57
1,3-Dichloropropane
Concen: 5.404 ug/l
RT: 8.729 min Scan# 2298
Delta R.T. 0.151 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

Tgt Ion: 76 Resp: 15544
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 97.967 ug/l

RT: 8.729 min Scan# 21

Delta R.T. 0.045 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

Instrument :

MSVOA_U

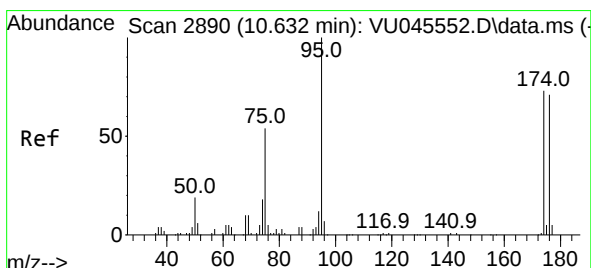
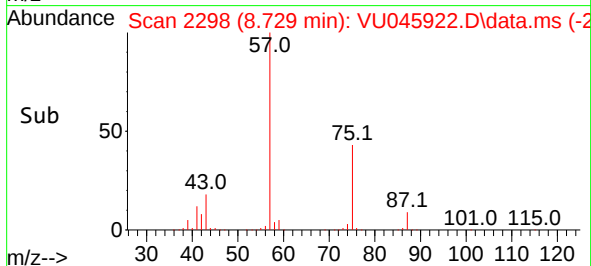
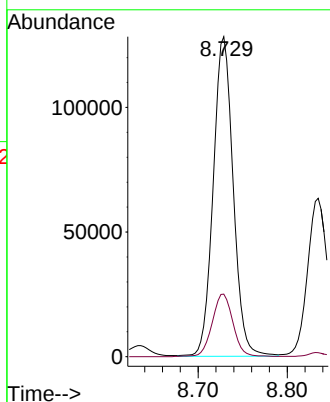
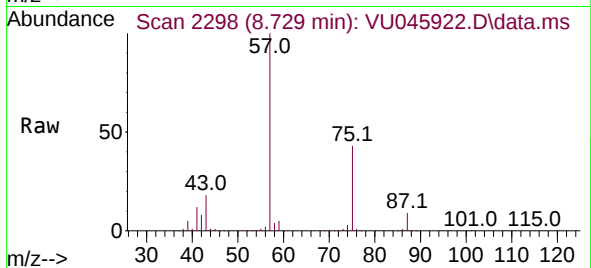
ClientSampleId :

Tgt Ion: 43 Resp: 199921

Ion Ratio Lower Upper

43 100

58 20.5 29.5 88.6#



#62

4-Bromofluorobenzene

Concen: 49.954 ug/l

RT: 10.635 min Scan# 2891

Delta R.T. 0.003 min

Lab File: VU045922.D

Acq: 22 Nov 2021 18:17

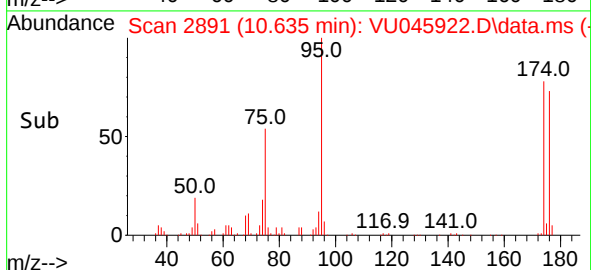
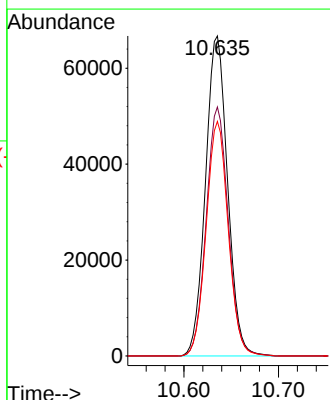
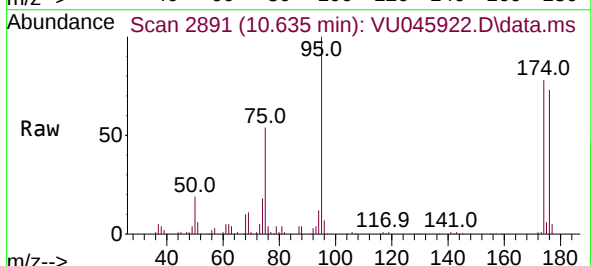
Tgt Ion: 95 Resp: 108431

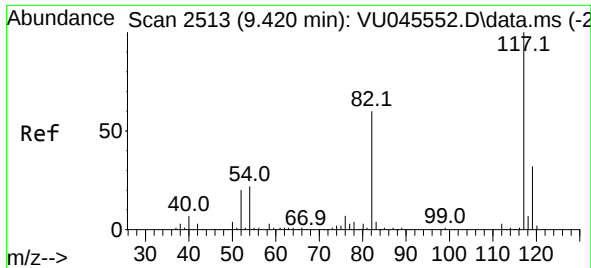
Ion Ratio Lower Upper

95 100

174 77.5 0.0 141.8

176 73.2 0.0 138.2

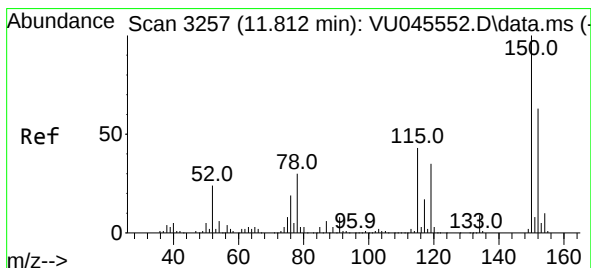
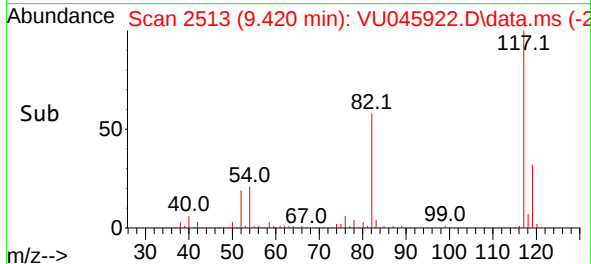
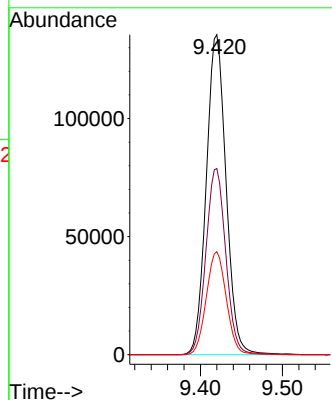
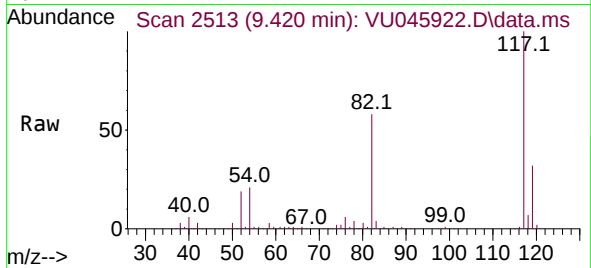




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

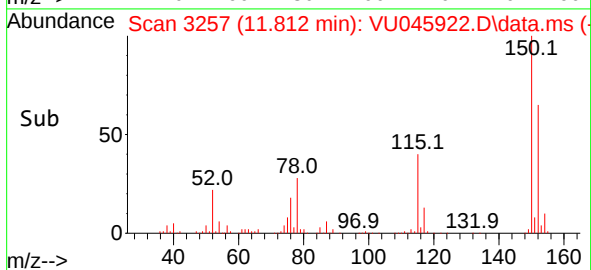
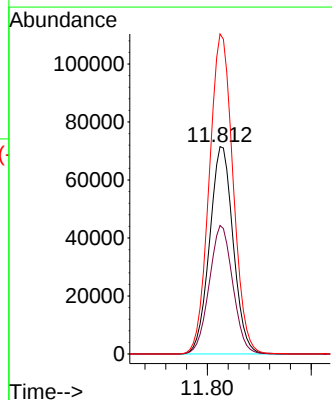
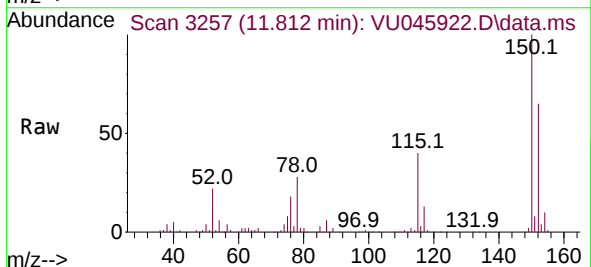
Instrument :
MSVOA_U
ClientSampleId :

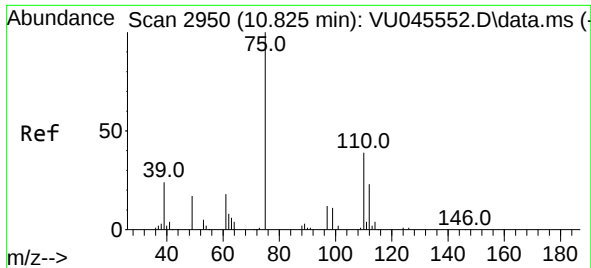
Tgt Ion:117 Resp: 227030
Ion Ratio Lower Upper
117 100
82 58.1 47.8 71.8
119 32.2 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.812 min Scan# 3257
Delta R.T. -0.000 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

Tgt Ion:152 Resp: 112743
Ion Ratio Lower Upper
152 100
115 61.8 42.7 128.1
150 155.8 0.0 346.8

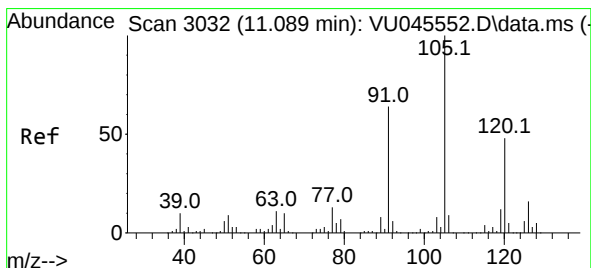
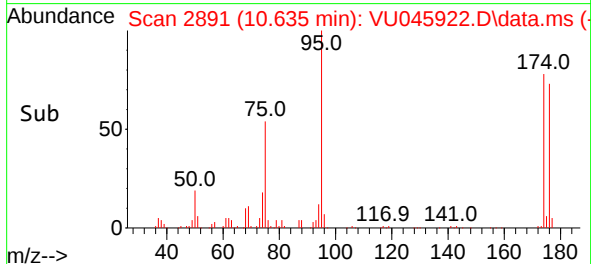
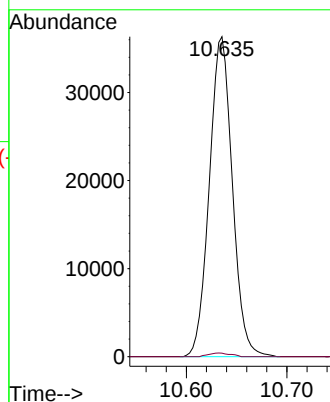
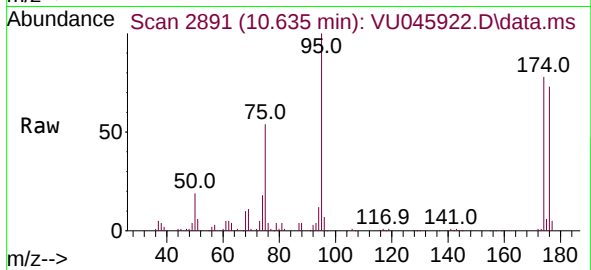




#76
 1,2,3-Trichloropropane
 Concen: 16.919 ug/l
 RT: 10.635 min Scan# 21
 Delta R.T. -0.190 min
 Lab File: VU045922.D
 Acq: 22 Nov 2021 18:17

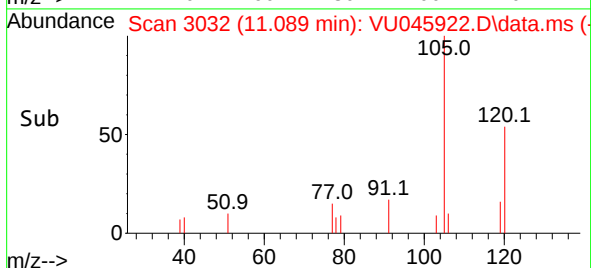
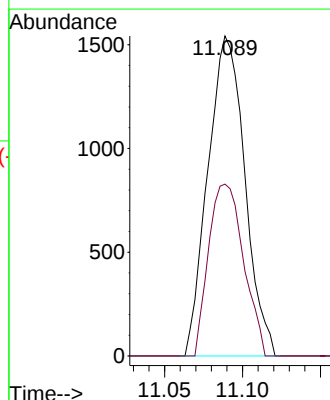
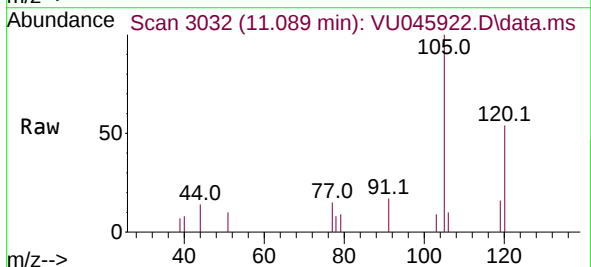
Instrument :
 MSVOA_U
 ClientSampleId :

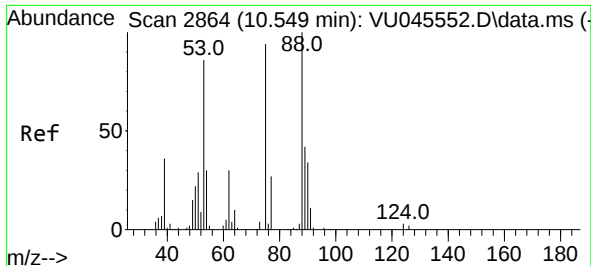
Tgt Ion: 75 Resp: 57846
 Ion Ratio Lower Upper
 75 100
 77 1.1 17.1 51.3#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.395 ug/l
 RT: 11.089 min Scan# 3032
 Delta R.T. -0.000 min
 Lab File: VU045922.D
 Acq: 22 Nov 2021 18:17

Tgt Ion: 105 Resp: 2543
 Ion Ratio Lower Upper
 105 100
 120 50.8 23.9 71.8

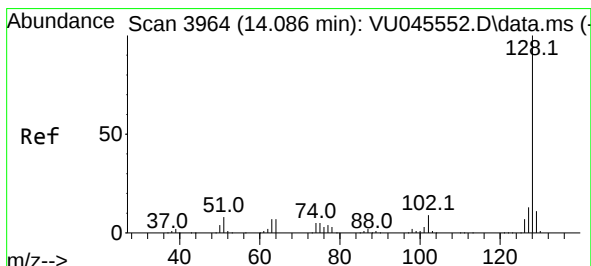
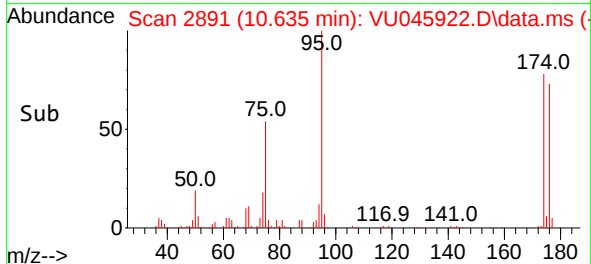
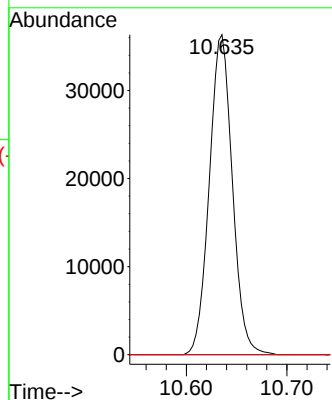
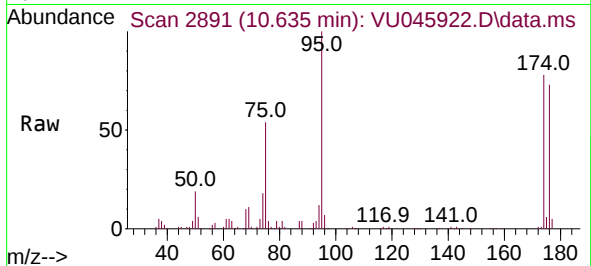




#81
trans-1,4-Dichloro-2-butene
Concen: 55.100 ug/l
RT: 10.635 min Scan# 2864
Delta R.T. 0.086 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 75 Resp: 57846
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.4#
89 0.0 34.0 51.0#



#95
Naphthalene
Concen: 1.039 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.006 min
Lab File: VU045922.D
Acq: 22 Nov 2021 18:17

Tgt Ion: 128 Resp: 94
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 13.0#

