

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102621\
 Data File : VU045402.D
 Acq On : 26 Oct 2021 15:05
 Operator : SY/MD
 Sample : M4284-08DL 10X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 20877DL

Quant Time: Oct 26 16:05:26 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092821W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 28 12:32:13 2021
 Response via : Initial Calibration

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

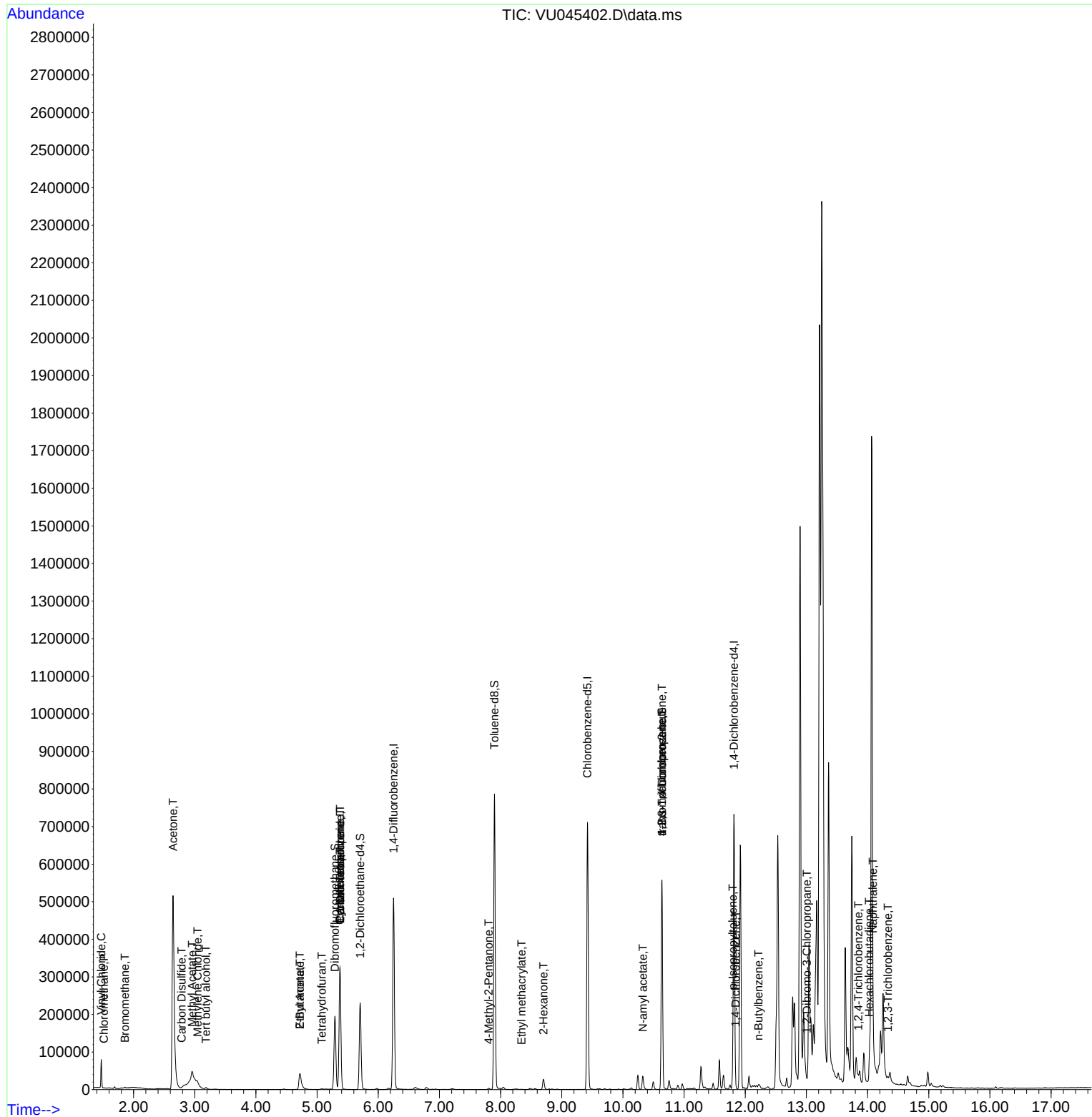
Internal Standards						
1) Pentafluorobenzene	5.375	168	216107	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	407390	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	381634	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	175650	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	174110	48.399	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.800%		
35) Dibromofluoromethane	5.292	113	126716	49.307	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.620%		
50) Toluene-d8	7.899	98	511094	50.333	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	100.660%		
62) 4-Bromofluorobenzene	10.639	95	192714	45.969	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.940%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	789	0.228	ug/l	90
4) Vinyl Chloride	1.472	62	713	0.206	ug/l #	43
5) Bromomethane	1.858	94	460	0.339	ug/l	87
11) Tert butyl alcohol	3.182	59	3032	2.937	ug/l #	72
16) Acetone	2.645	43	790774	370.329	ug/l	98
17) Carbon Disulfide	2.787	76	2355	0.311	ug/l #	88
18) Methyl Acetate	2.954	43	50557	8.101	ug/l #	75
20) Methylene Chloride	3.044	84	1911	0.594	ug/l	87
25) 2-Butanone	4.719	43	83106	27.393	ug/l	99
29) Tetrahydrofuran	5.076	42	1084	0.600	ug/l #	82
31) Cyclohexane	5.372	56	5237	0.958	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	19726	4.630	ug/l #	49
37) Ethyl Acetate	4.719	43	83106	14.743	ug/l #	69
38) Carbon Tetrachloride	5.375	117	22293	6.047	ug/l #	16
51) 4-Methyl-2-Pentanone	7.806	43	3158	0.512	ug/l	95
56) Ethyl methacrylate	8.343	69	260	1.860	ug/l #	43
59) 2-Hexanone	8.700	43	20663	4.110	ug/l	99
74) N-amyl acetate	10.327	43	1503	0.228	ug/l #	1
76) 1,2,3-Trichloropropane	10.639	75	98923	19.308	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.639	75	98923	53.583	ug/l #	9
86) p-Isopropyltoluene	11.796	119	21455	1.858	ug/l	98
88) 1,4-Dichlorobenzene	11.841	146	1263	0.204	ug/l #	49
89) n-Butylbenzene	12.214	91	2288	0.215	ug/l	91
92) 1,2-Dibromo-3-Chloropr...	13.005	75	287	0.215	ug/l #	71
93) 1,2,4-Trichlorobenzene	13.847	180	2152	0.625	ug/l	92
94) Hexachlorobutadiene	14.024	225	294	0.204	ug/l	92
95) Naphthalene	14.089	128	15757	1.216	ug/l #	82
96) 1,2,3-Trichlorobenzene	14.333	180	2584	0.747	ug/l	97

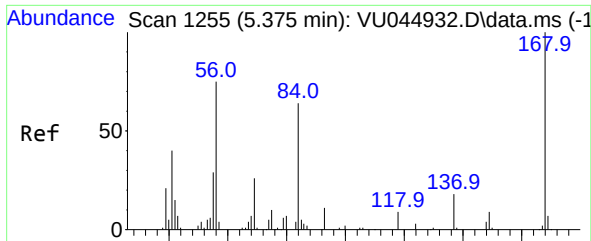
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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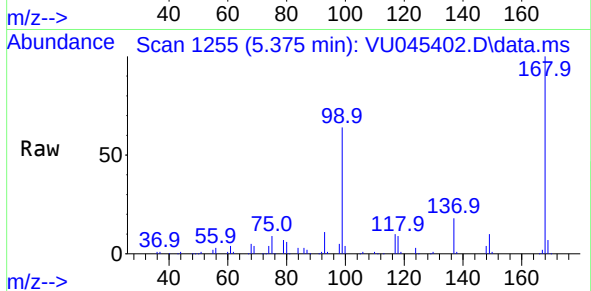
Quant Time: Oct 26 16:05:26 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092821W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 28 12:32:13 2021
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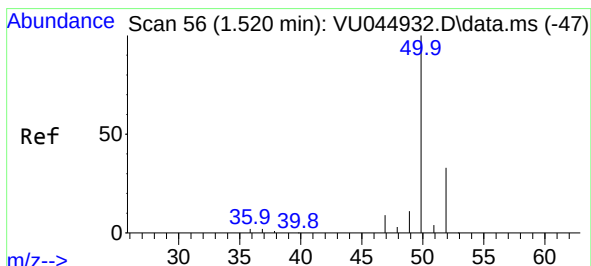
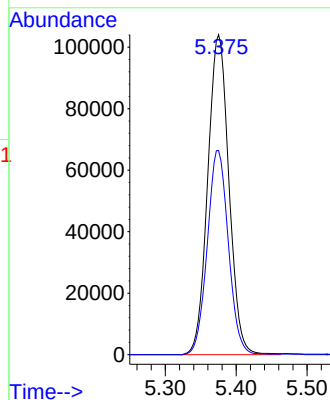
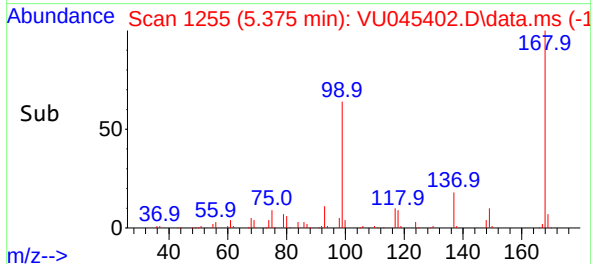


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.375 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

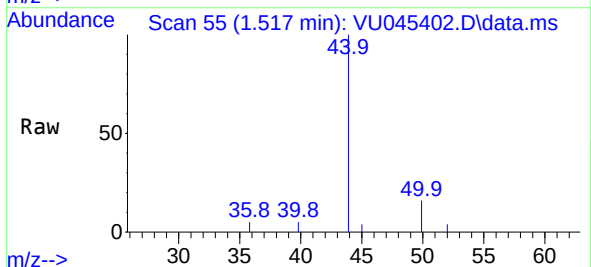
Instrument :
MSVOA_U
ClientSampleId :
20877DL



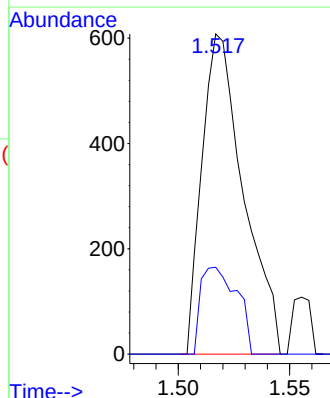
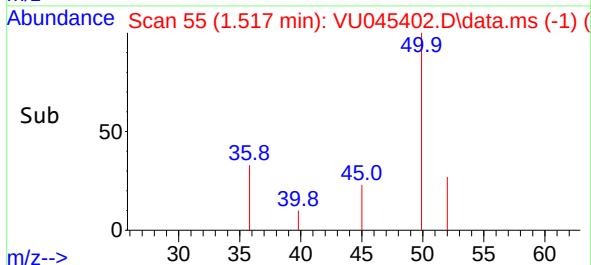
Tgt Ion:168 Resp: 216107
Ion Ratio Lower Upper
168 100
99 63.8 51.4 77.0

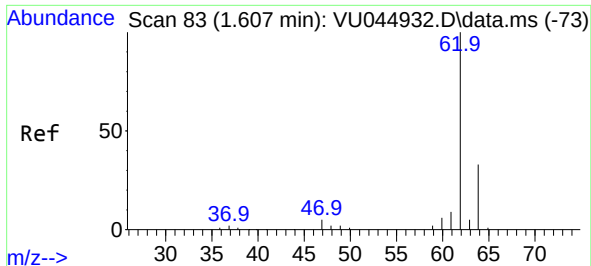


#3
Chloromethane
Concen: 0.228 ug/l
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05



Tgt Ion: 50 Resp: 789
Ion Ratio Lower Upper
50 100
52 27.1 26.3 39.5

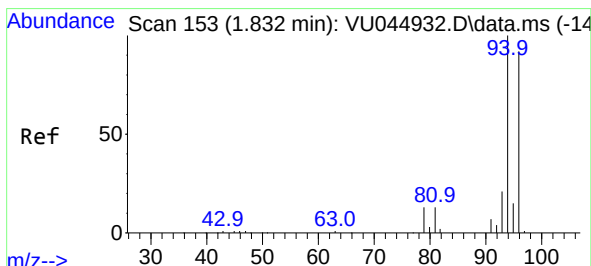
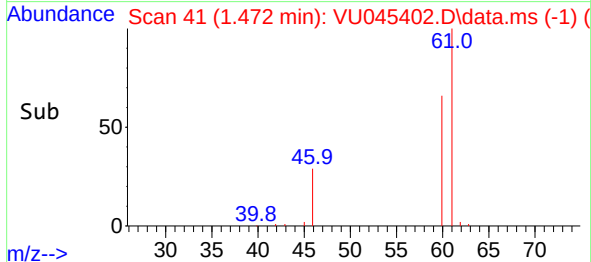
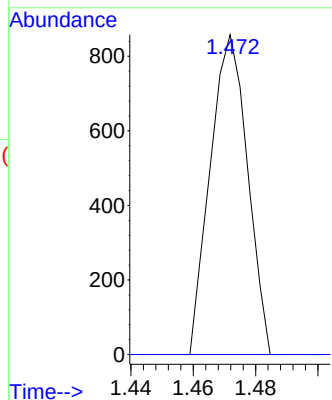
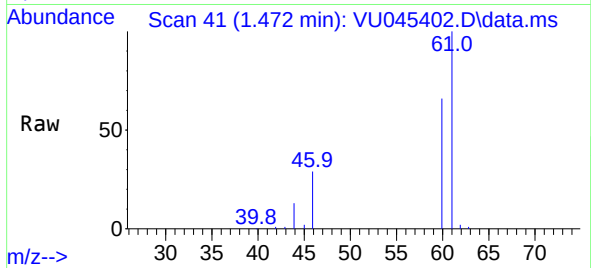




#4
 Vinyl Chloride
 Concen: 0.206 ug/l
 RT: 1.472 min Scan# 41
 Delta R.T. -0.135 min
 Lab File: VU045402.D
 Acq: 26 Oct 2021 15:05

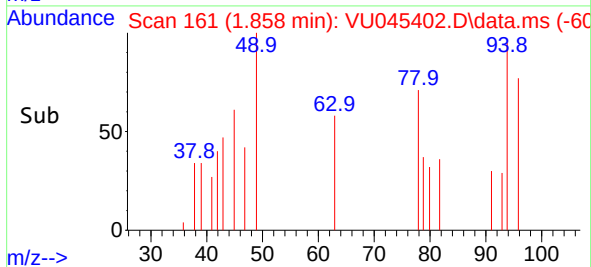
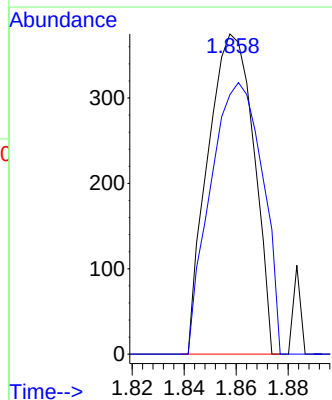
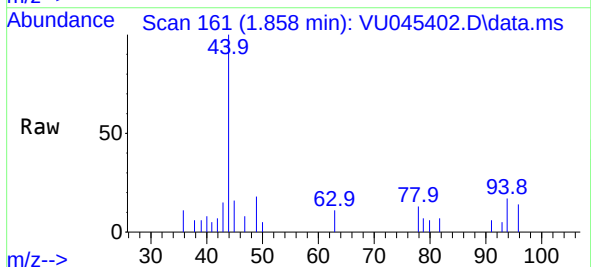
Instrument :
 MSVOA_U
 ClientSampleId :
 20877DL

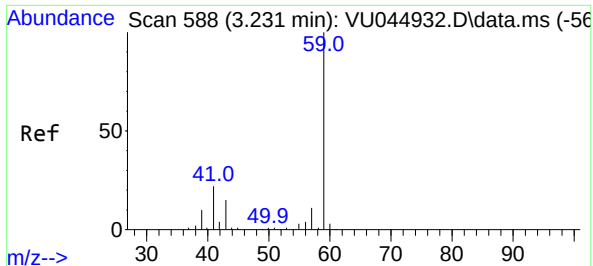
Tgt Ion: 62 Resp: 713
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.6 38.4#



#5
 Bromomethane
 Concen: 0.339 ug/l
 RT: 1.858 min Scan# 161
 Delta R.T. 0.026 min
 Lab File: VU045402.D
 Acq: 26 Oct 2021 15:05

Tgt Ion: 94 Resp: 460
 Ion Ratio Lower Upper
 94 100
 96 81.1 74.5 111.7





#11

Tert butyl alcohol

Concen: 2.937 ug/l

RT: 3.182 min Scan# 51

Delta R.T. -0.049 min

Lab File: VU045402.D

Acq: 26 Oct 2021 15:05

Instrument :

MSVOA_U

ClientSampleId :

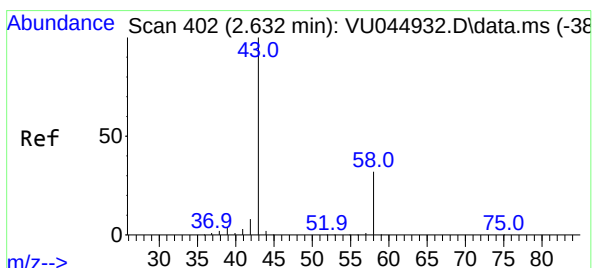
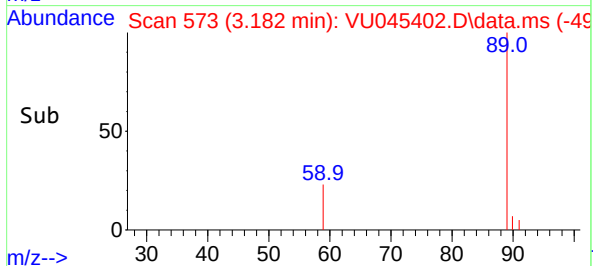
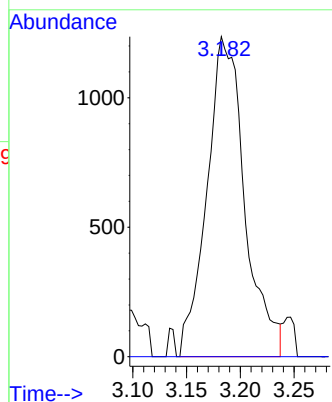
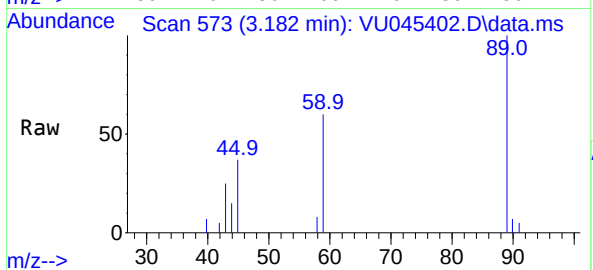
20877DL

Tgt Ion: 59 Resp: 3032

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#16

Acetone

Concen: 370.329 ug/l

RT: 2.645 min Scan# 406

Delta R.T. 0.013 min

Lab File: VU045402.D

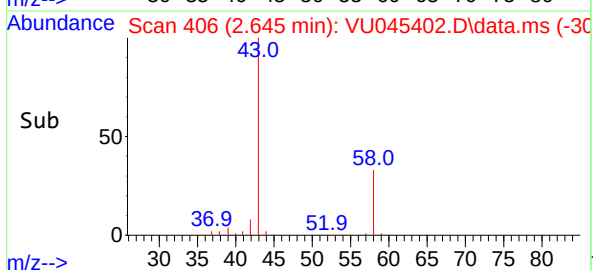
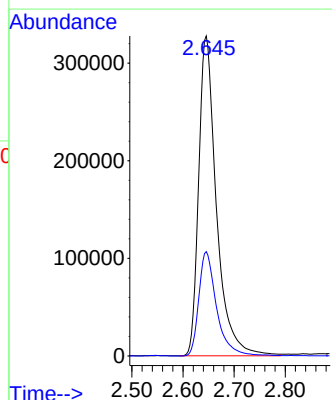
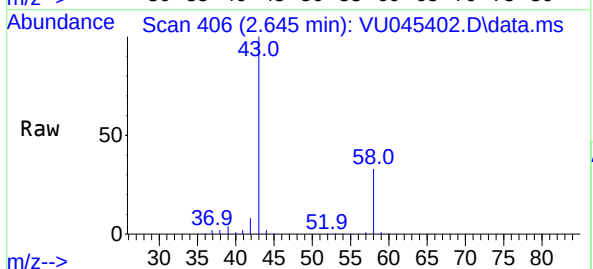
Acq: 26 Oct 2021 15:05

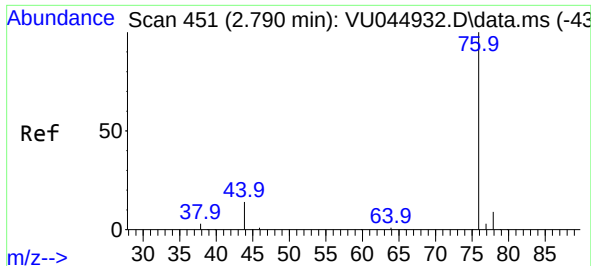
Tgt Ion: 43 Resp: 790774

Ion Ratio Lower Upper

43 100

58 32.6 25.2 37.8

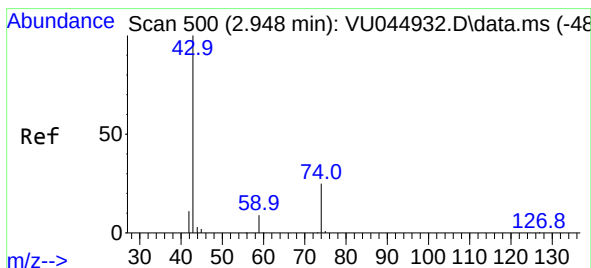
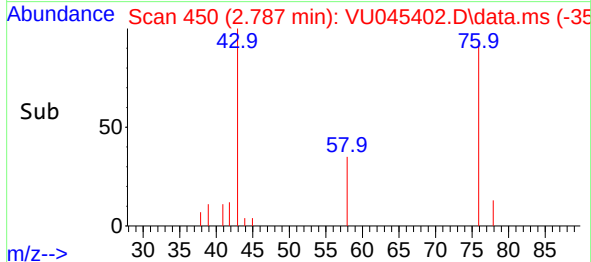
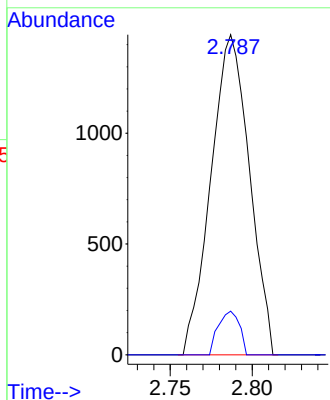
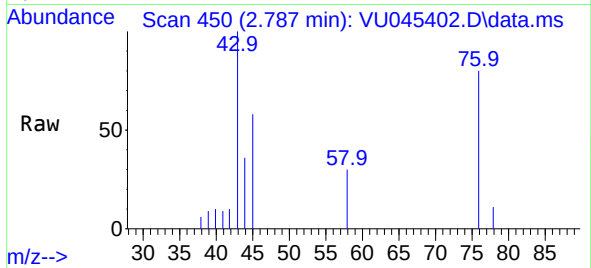




#17
Carbon Disulfide
Concen: 0.311 ug/l
RT: 2.787 min Scan# 411
Delta R.T. -0.003 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

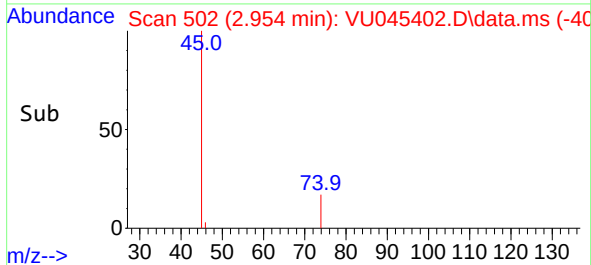
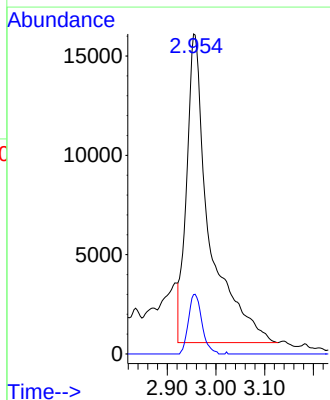
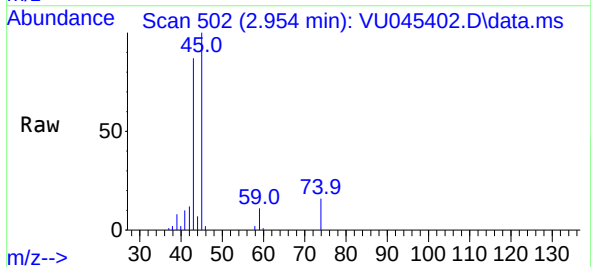
Instrument :
MSVOA_U
ClientSampleId :
20877DL

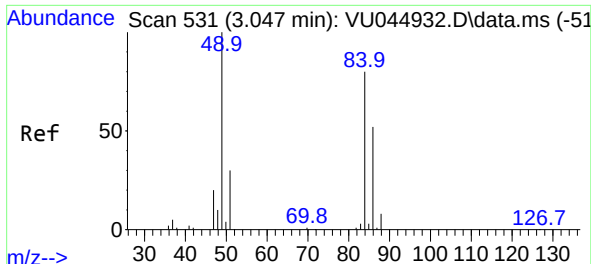
Tgt Ion: 76 Resp: 2355
Ion Ratio Lower Upper
76 100
78 13.6 7.4 11.0#



#18
Methyl Acetate
Concen: 8.101 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.006 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Tgt Ion: 43 Resp: 50557
Ion Ratio Lower Upper
43 100
74 11.5 19.0 28.6#



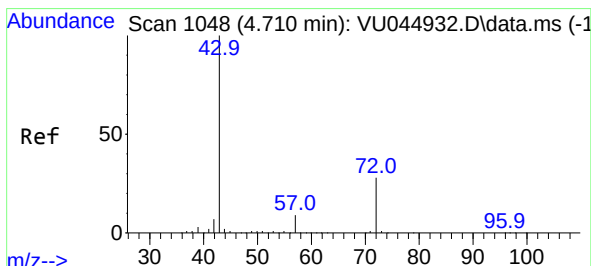
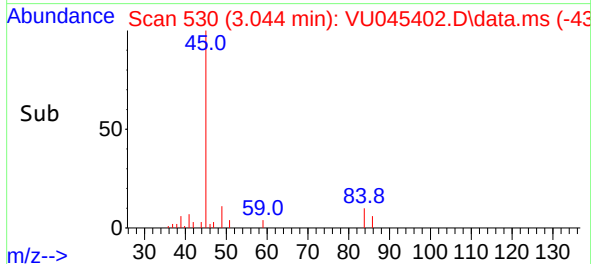
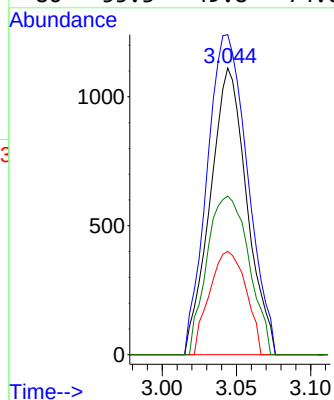
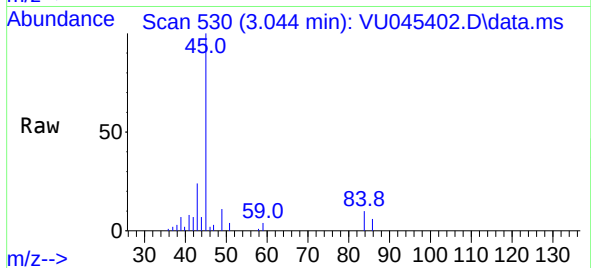


#20
Methylene Chloride
Concen: 0.594 ug/l
RT: 3.044 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Instrument :
MSVOA_U
ClientSampleId :
20877DL

Tgt Ion: 84 Resp: 1911

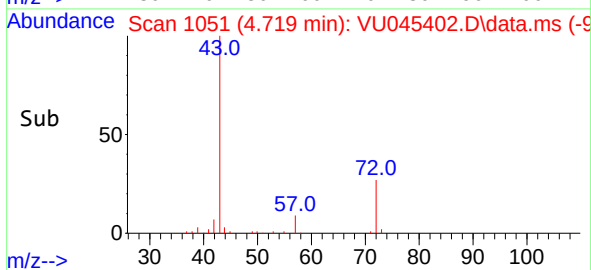
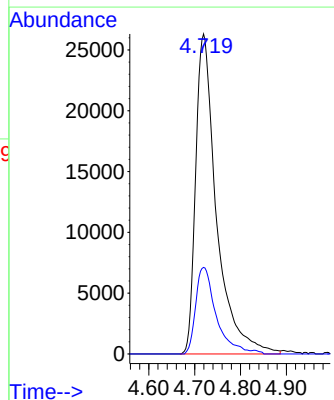
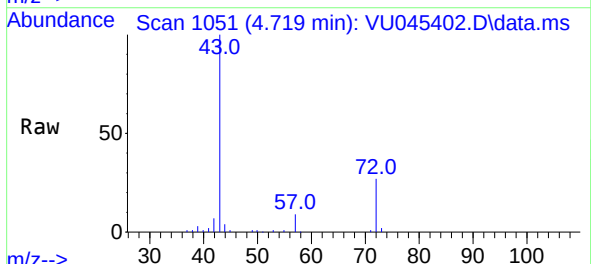
Ion	Ratio	Lower	Upper
84	100		
49	111.6	104.9	157.3
51	36.1	31.8	47.8
86	55.3	49.8	74.6

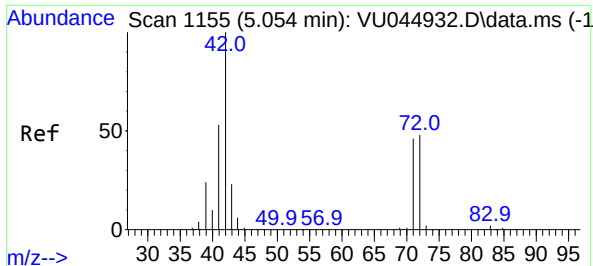


#25
2-Butanone
Concen: 27.393 ug/l
RT: 4.719 min Scan# 1051
Delta R.T. 0.009 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Tgt Ion: 43 Resp: 83106

Ion	Ratio	Lower	Upper
43	100		
72	27.0	21.3	31.9





#29

Tetrahydrofuran

Concen: 0.600 ug/l

RT: 5.076 min Scan# 1155

Delta R.T. 0.022 min

Lab File: VU045402.D

Acq: 26 Oct 2021 15:05

Instrument :

MSVOA_U

ClientSampleId :

20877DL

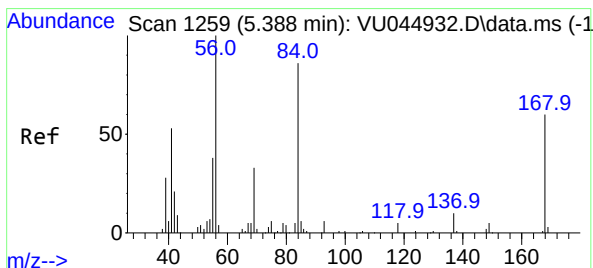
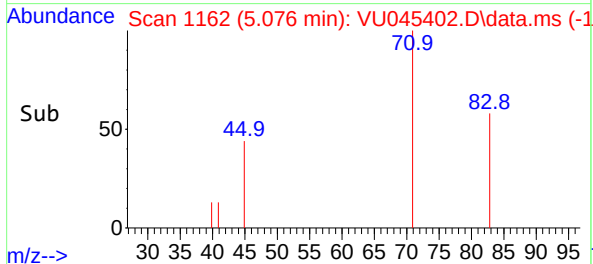
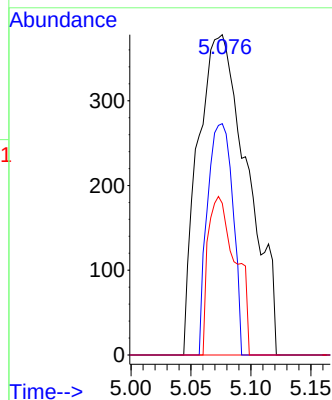
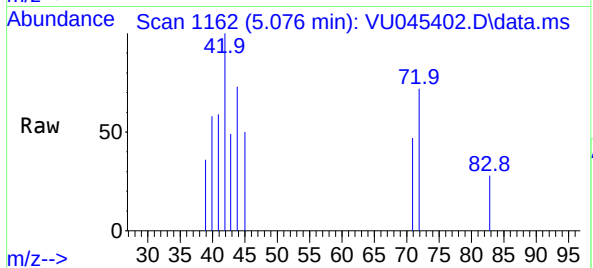
Tgt Ion: 42 Resp: 1084

Ion Ratio Lower Upper

42 100

72 36.8 36.2 54.4

71 27.5 34.1 51.1#



#31

Cyclohexane

Concen: 0.958 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.016 min

Lab File: VU045402.D

Acq: 26 Oct 2021 15:05

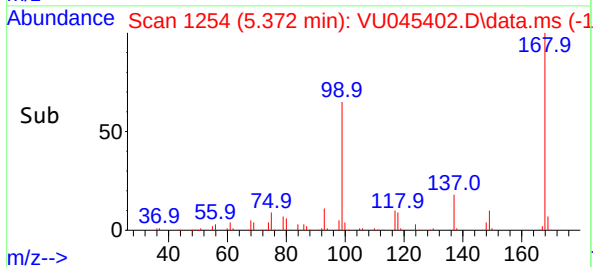
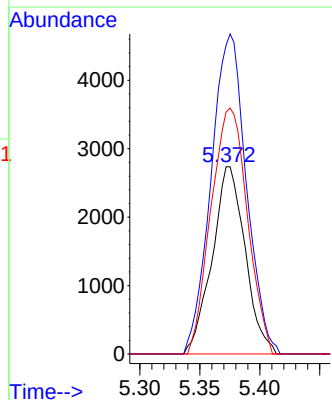
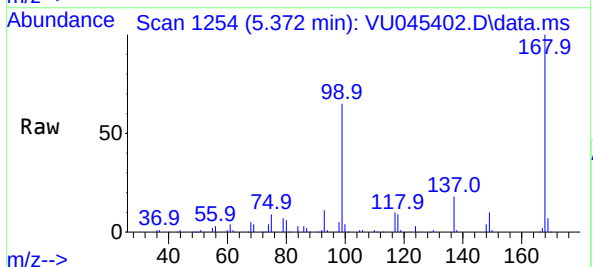
Tgt Ion: 56 Resp: 5237

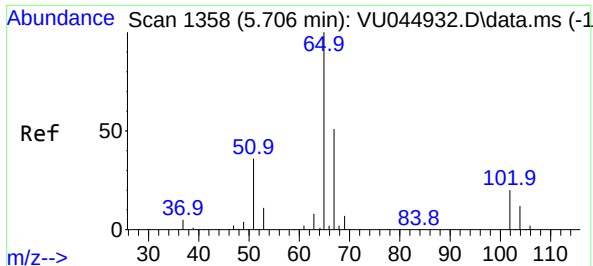
Ion Ratio Lower Upper

56 100

69 165.1 25.2 37.8#

84 129.3 66.4 99.6#

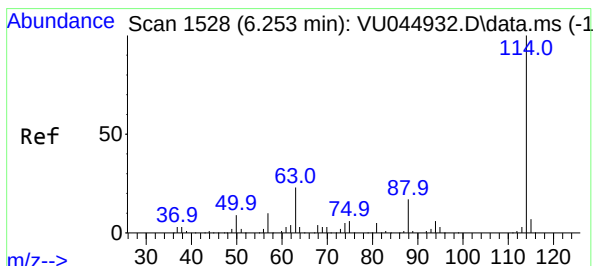
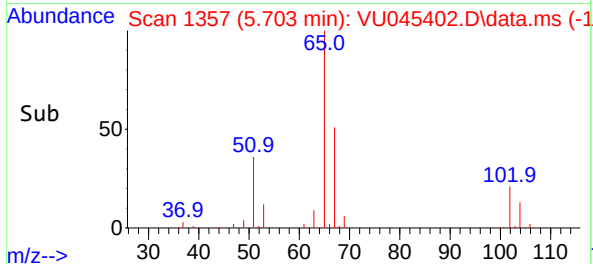
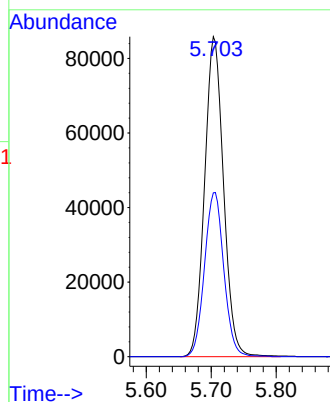
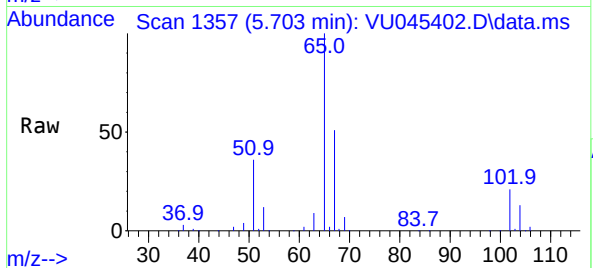




#33
1,2-Dichloroethane-d4
Concen: 48.399 ug/l
RT: 5.703 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

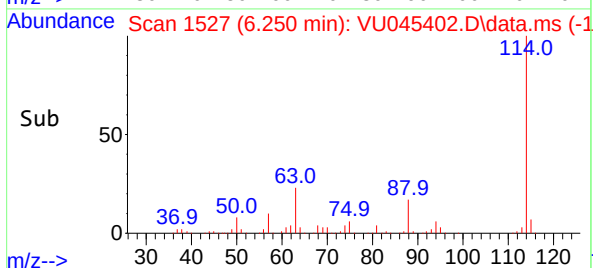
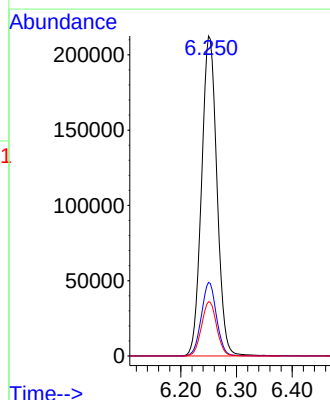
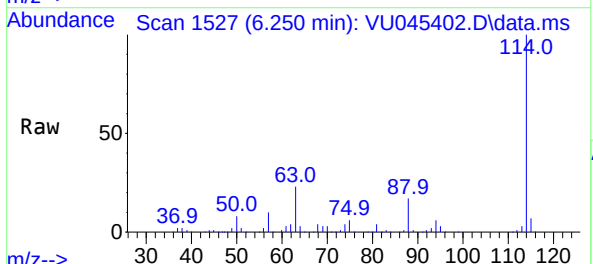
Instrument :
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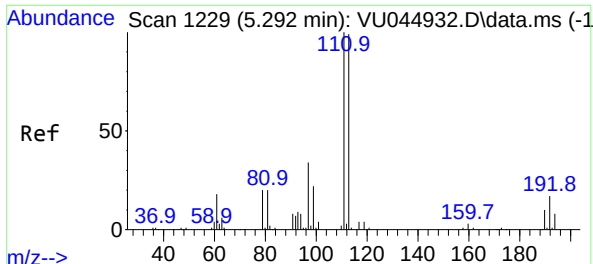
Tgt Ion: 65 Resp: 174110
Ion Ratio Lower Upper
65 100
67 52.3 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.250 min Scan# 1527
Delta R.T. -0.003 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Tgt Ion: 114 Resp: 407390
Ion Ratio Lower Upper
114 100
63 23.0 0.0 47.8
88 16.9 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.307 ug/l

RT: 5.292 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU045402.D

Acq: 26 Oct 2021 15:05

Instrument :

MSVOA_U

ClientSampleId :

20877DL

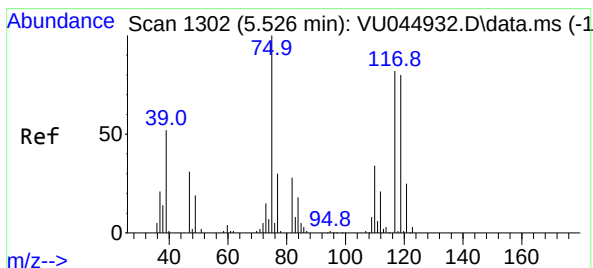
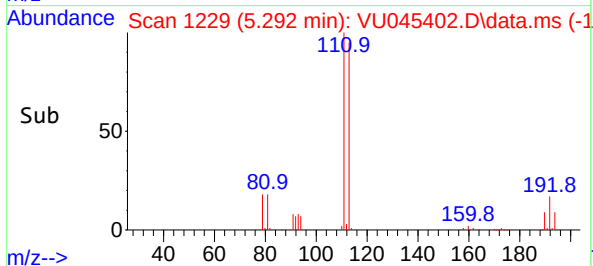
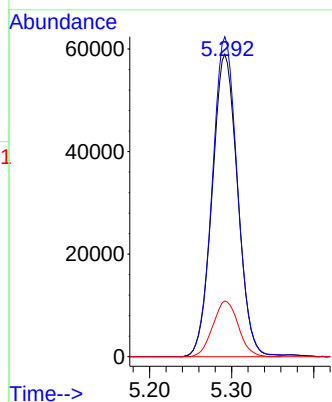
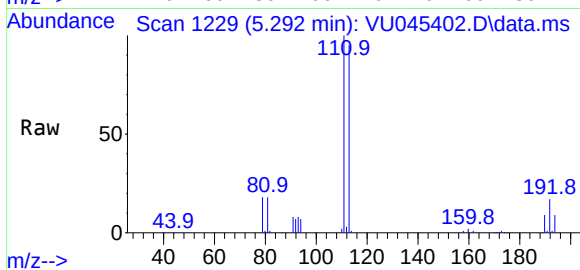
Tgt Ion:113 Resp: 126716

Ion Ratio Lower Upper

113 100

111 104.2 84.1 126.1

192 18.5 14.8 22.2



#36

1,1-Dichloropropene

Concen: 4.630 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.151 min

Lab File: VU045402.D

Acq: 26 Oct 2021 15:05

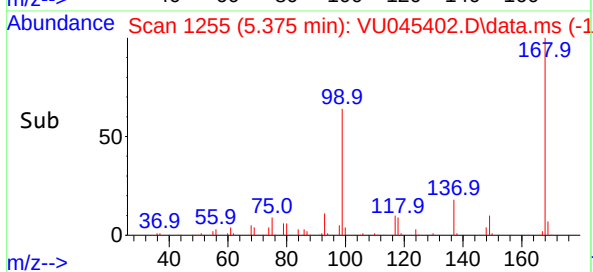
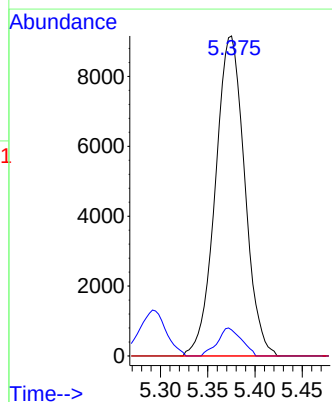
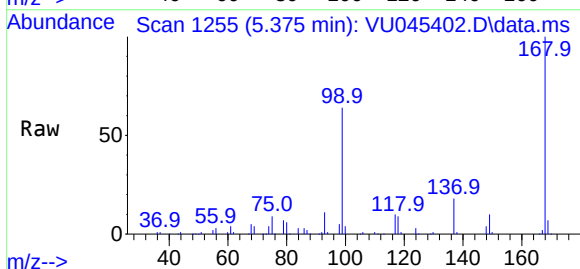
Tgt Ion: 75 Resp: 19726

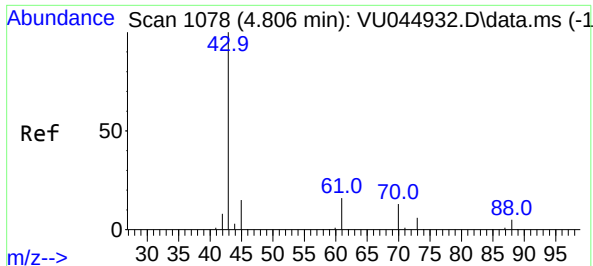
Ion Ratio Lower Upper

75 100

110 7.1 16.3 48.9#

77 0.0 25.0 37.4#

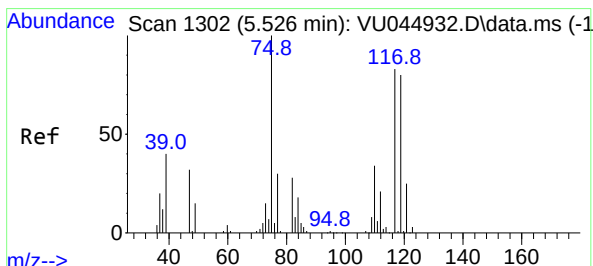
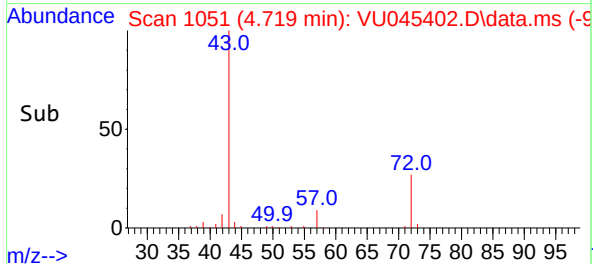
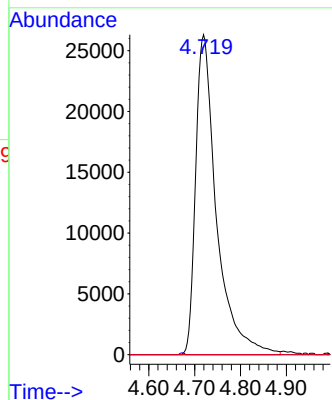
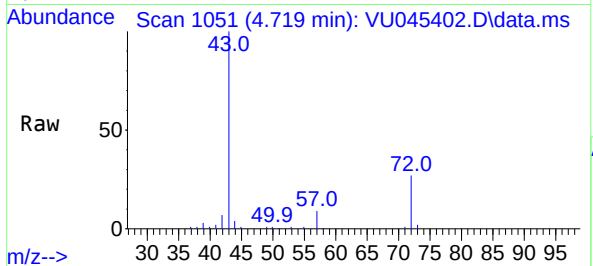




#37
Ethyl Acetate
Concen: 14.743 ug/l
RT: 4.719 min Scan# 1051
Delta R.T. -0.087 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

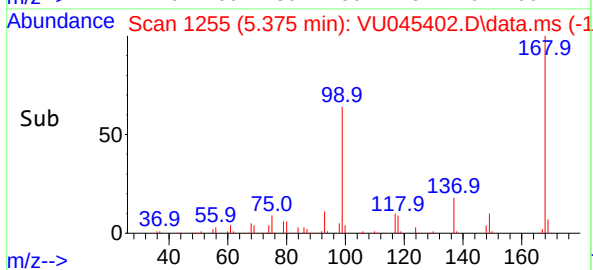
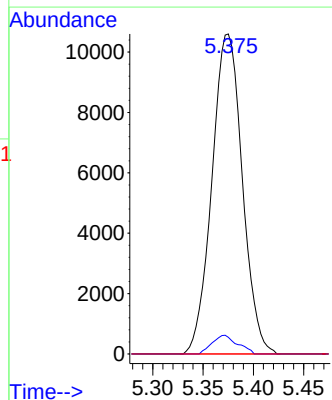
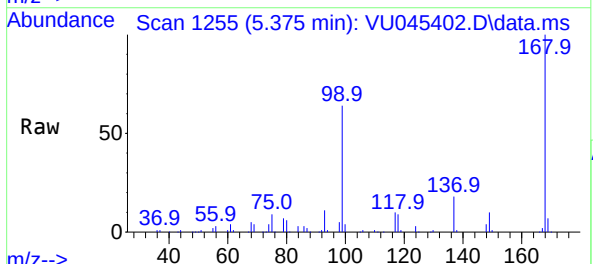
Instrument :
MSVOA_U
ClientSampleId :
20877DL

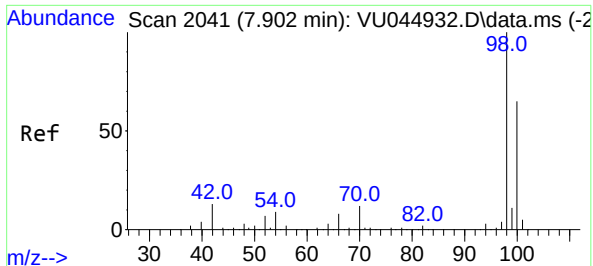
Tgt Ion: 43 Resp: 83106
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 8.2 12.4#



#38
Carbon Tetrachloride
Concen: 6.047 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.151 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Tgt Ion: 117 Resp: 22293
Ion Ratio Lower Upper
117 100
119 5.2 77.4 116.2#
121 0.0 24.5 36.7#

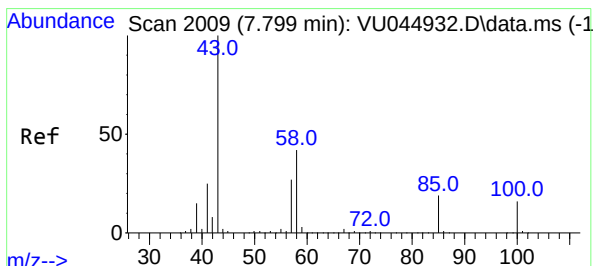
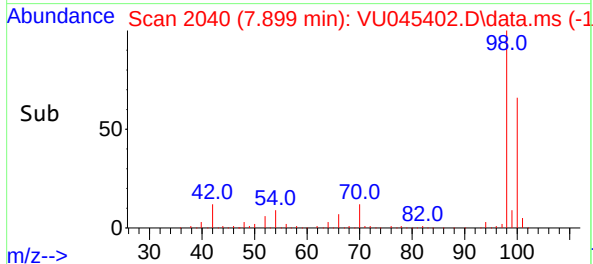
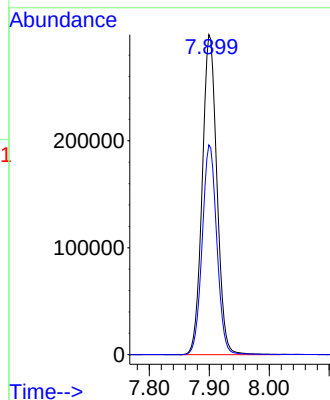
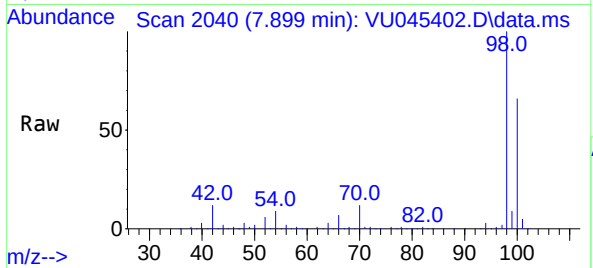




#50
Toluene-d8
Concen: 50.333 ug/l
RT: 7.899 min Scan# 2040
Delta R.T. -0.003 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

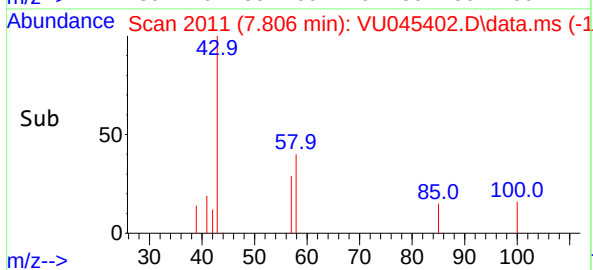
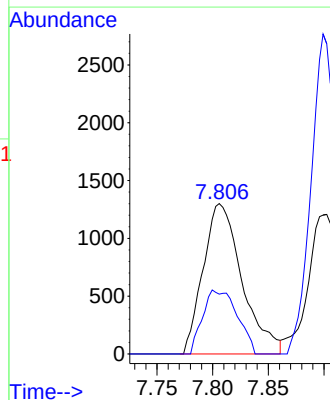
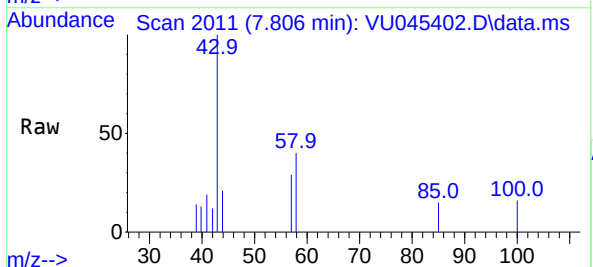
Instrument :
MSVOA_U
ClientSampleId :
20877DL

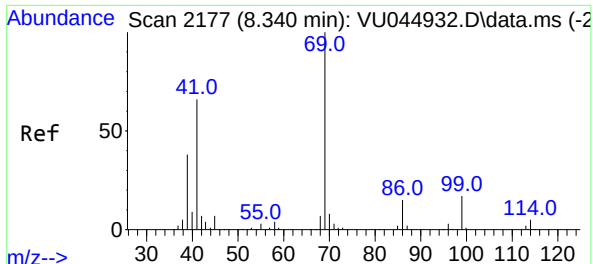
Tgt Ion: 98 Resp: 511094
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.512 ug/l
RT: 7.806 min Scan# 2011
Delta R.T. 0.007 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Tgt Ion: 43 Resp: 3158
Ion Ratio Lower Upper
43 100
58 37.7 32.4 48.6





#56

Ethyl methacrylate

Concen: 1.860 ug/l

RT: 8.343 min Scan# 2177

Delta R.T. 0.003 min

Lab File: VU045402.D

Acq: 26 Oct 2021 15:05

Instrument :

MSVOA_U

ClientSampleId :

20877DL

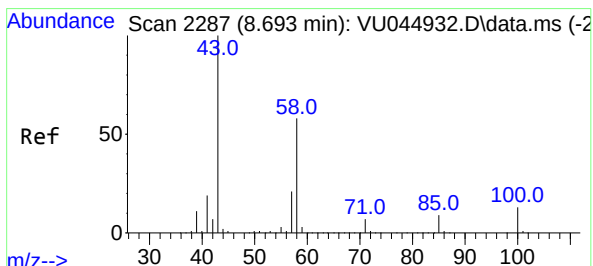
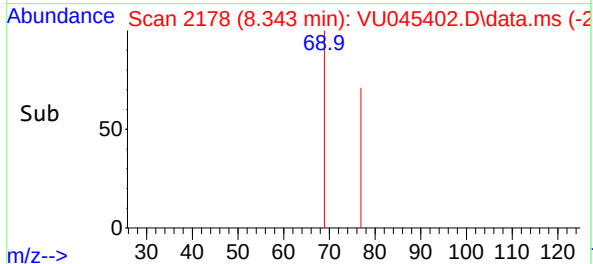
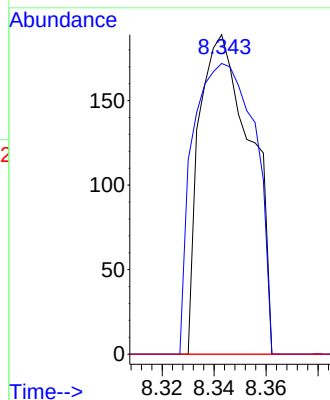
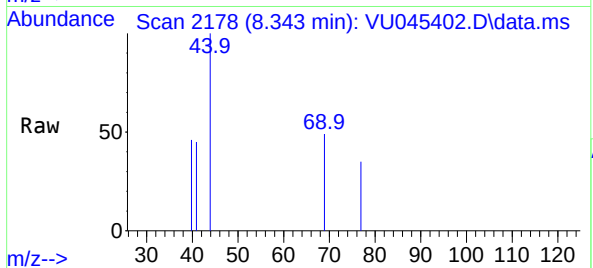
Tgt Ion: 69 Resp: 260

Ion Ratio Lower Upper

69 100

41 109.2 53.5 80.3#

39 0.0 31.1 46.7#



#59

2-Hexanone

Concen: 4.110 ug/l

RT: 8.700 min Scan# 2289

Delta R.T. 0.007 min

Lab File: VU045402.D

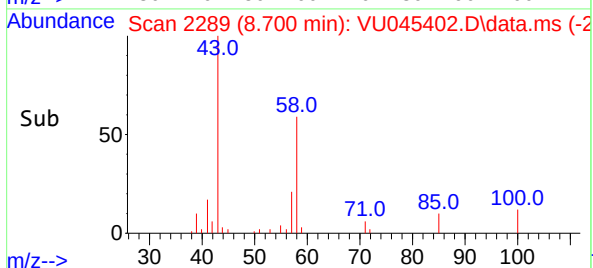
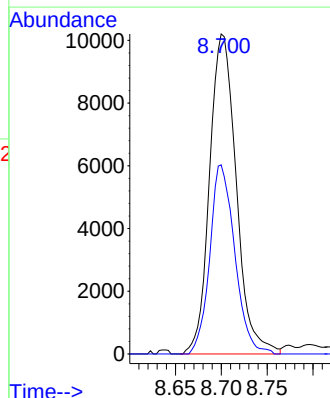
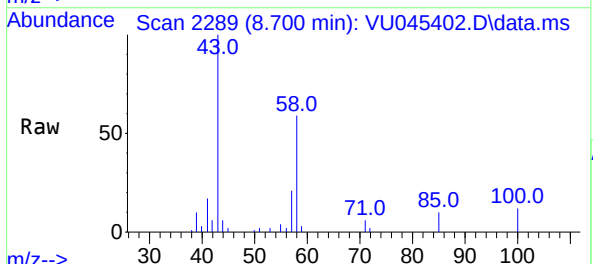
Acq: 26 Oct 2021 15:05

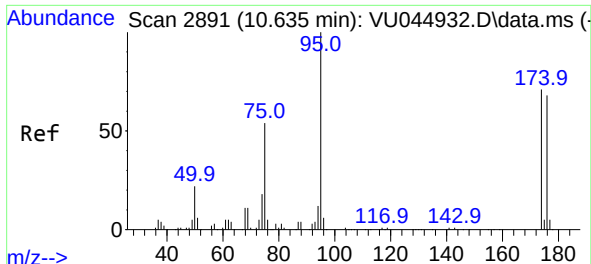
Tgt Ion: 43 Resp: 20663

Ion Ratio Lower Upper

43 100

58 55.3 28.0 84.0

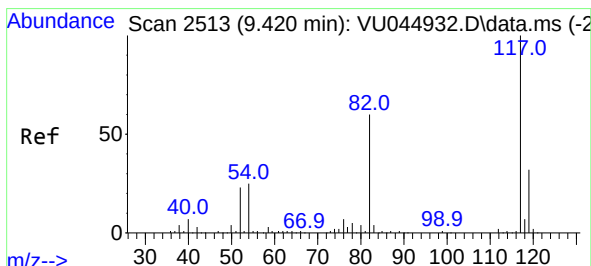
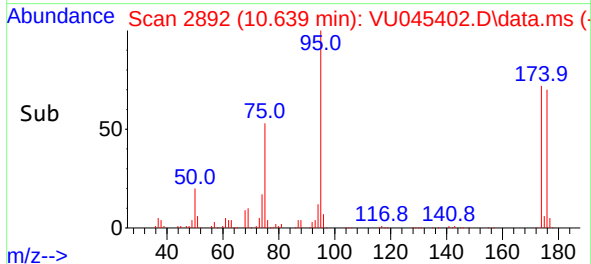
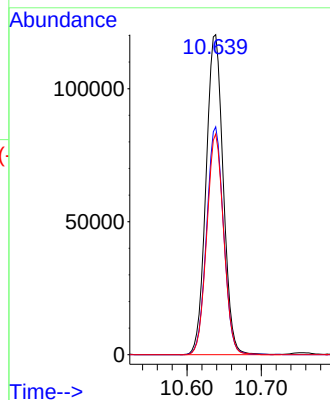
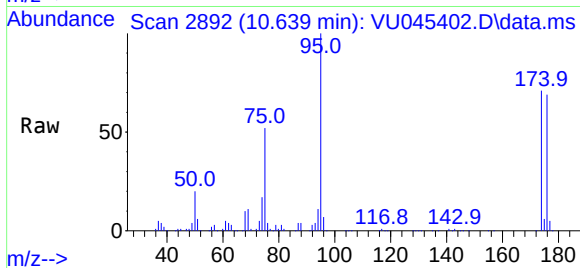




#62
4-Bromofluorobenzene
Concen: 45.969 ug/l
RT: 10.639 min Scan# 2891
Delta R.T. 0.004 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

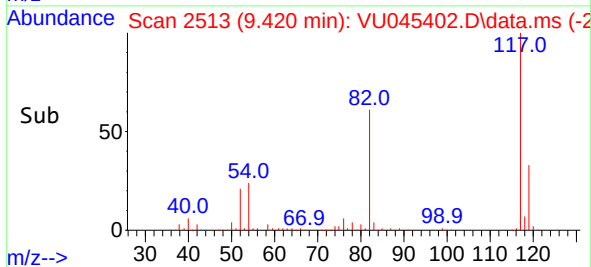
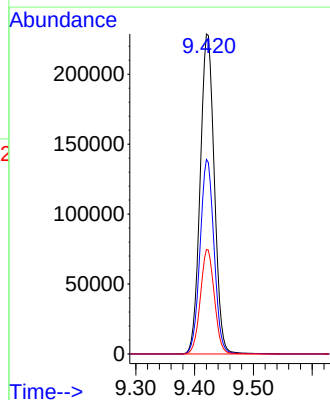
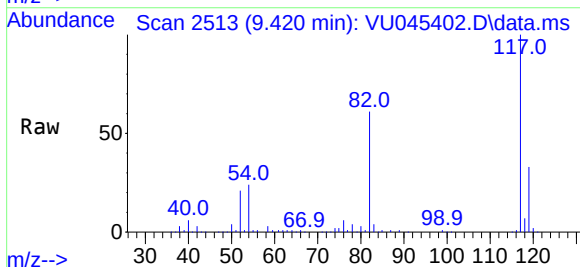
Instrument :
MSVOA_U
ClientSampleId :
20877DL

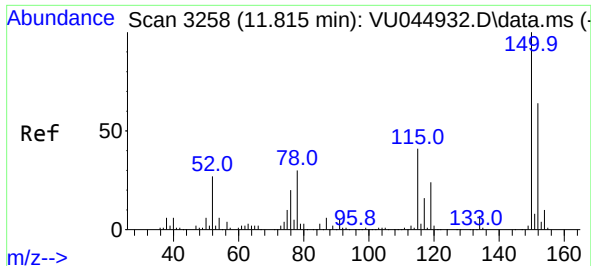
Tgt Ion: 95 Resp: 192714
Ion Ratio Lower Upper
95 100
174 70.2 0.0 146.6
176 67.8 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Tgt Ion: 117 Resp: 381634
Ion Ratio Lower Upper
117 100
82 60.8 47.8 71.8
119 32.6 25.8 38.6

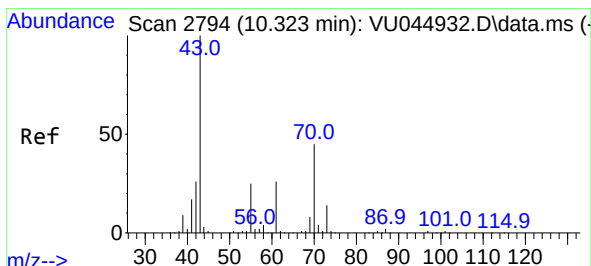
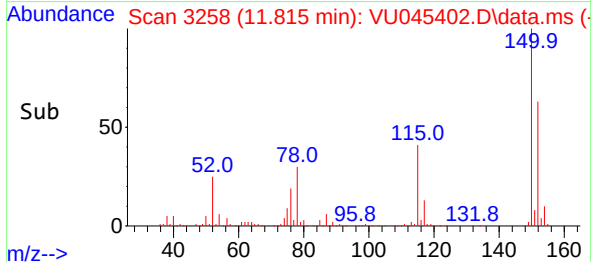
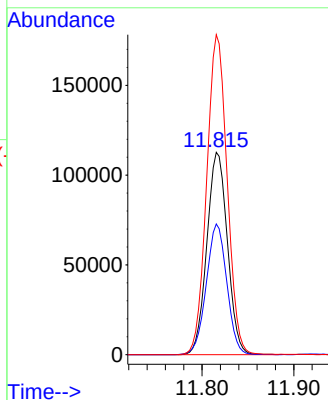
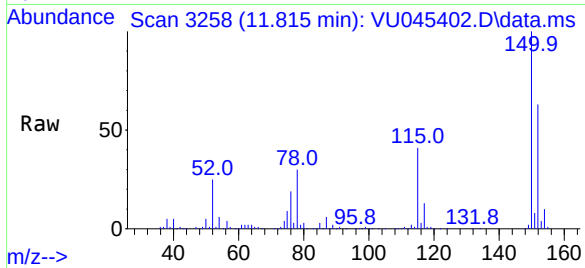




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

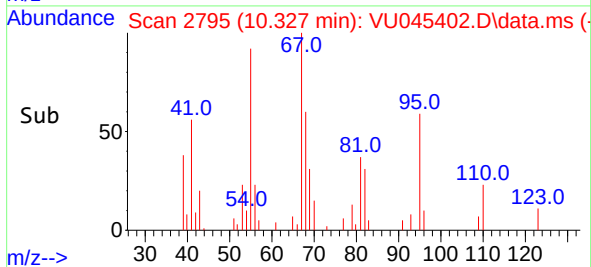
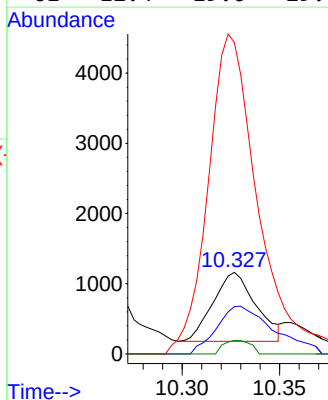
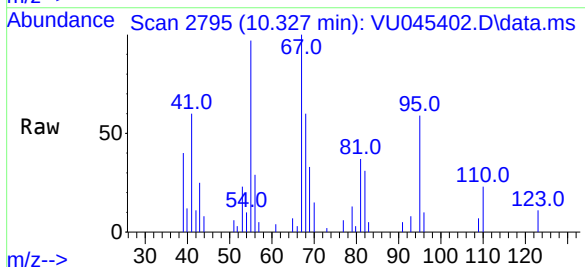
Instrument :
MSVOA_U
ClientSampleId :
20877DL

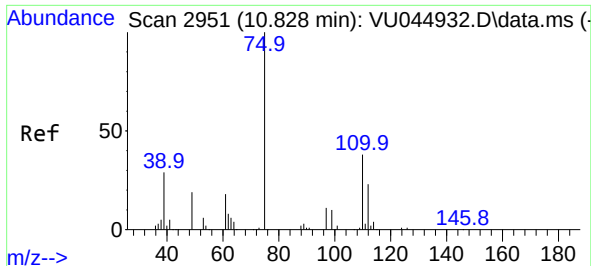
Tgt Ion:152 Resp: 175650
Ion Ratio Lower Upper
152 100
115 64.5 43.5 130.7
150 157.0 0.0 350.0



#74
N-ethyl acetate
Concen: 0.228 ug/l
RT: 10.327 min Scan# 2795
Delta R.T. 0.004 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Tgt Ion: 43 Resp: 1503
Ion Ratio Lower Upper
43 100
70 92.2 35.1 52.7#
55 539.1 20.5 30.7#
61 12.4 19.6 29.4#

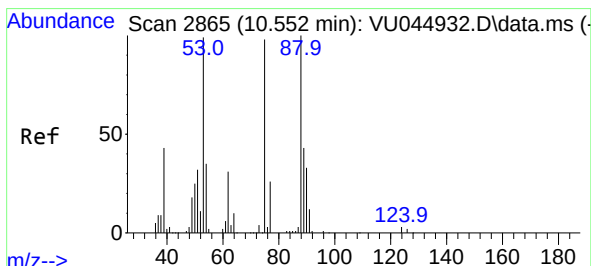
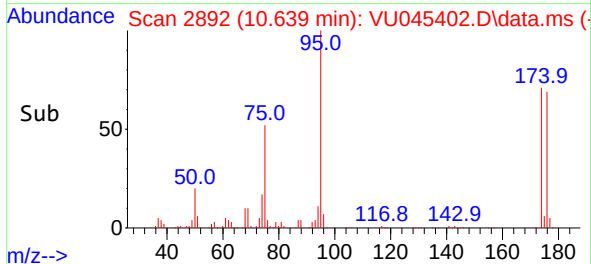
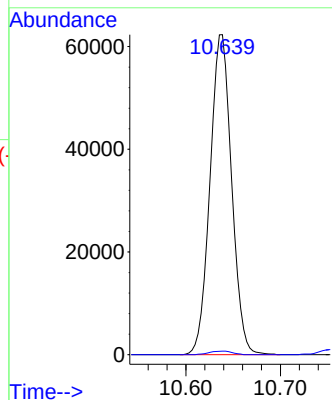
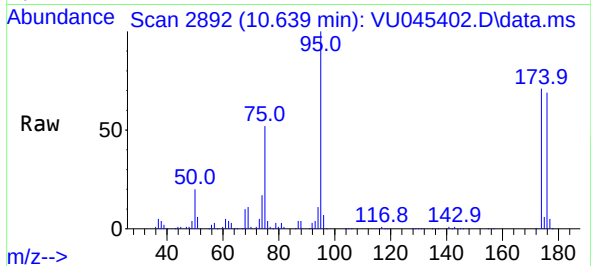




#76
1,2,3-Trichloropropane
Concen: 19.308 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. -0.189 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

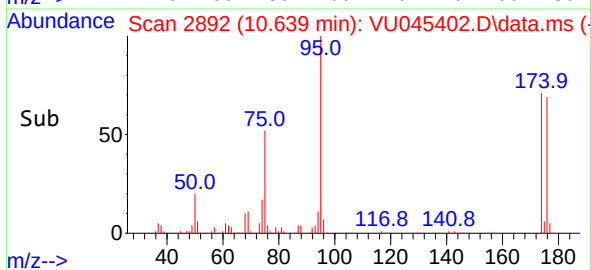
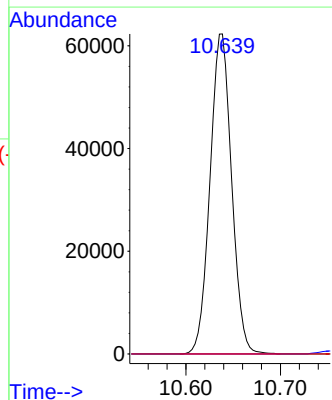
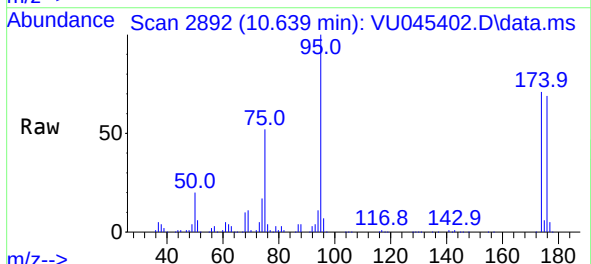
Instrument :
MSVOA_U
ClientSampleId :
20877DL

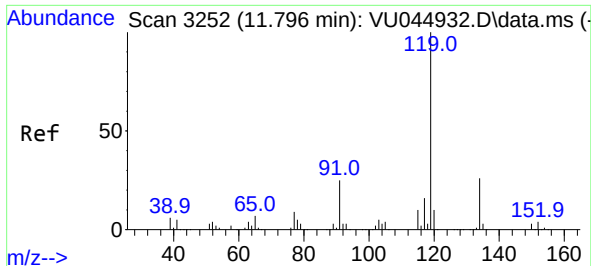
Tgt Ion: 75 Resp: 98923
Ion Ratio Lower Upper
75 100
77 1.2 17.9 53.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 53.583 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.087 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Tgt Ion: 75 Resp: 98923
Ion Ratio Lower Upper
75 100
53 0.0 82.0 123.0#
89 0.0 34.2 51.4#



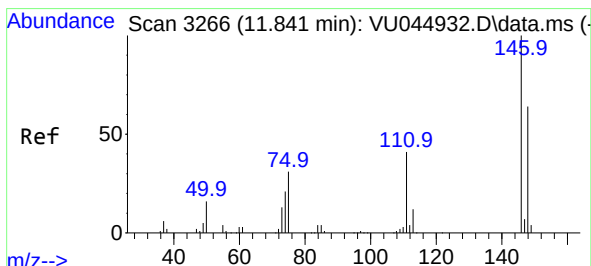
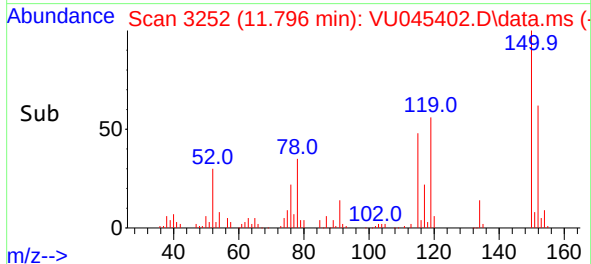
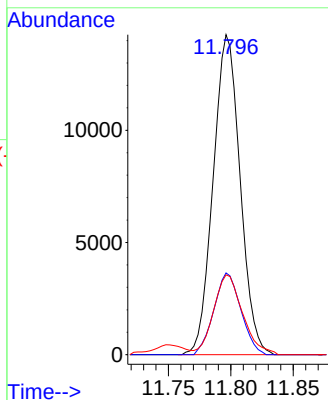
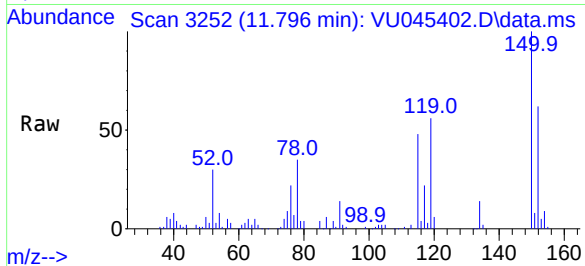


#86
 p-Isopropyltoluene
 Concen: 1.858 ug/l
 RT: 11.796 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VU045402.D
 Acq: 26 Oct 2021 15:05

Instrument :
 MSVOA_U
 ClientSampleId :
 20877DL

Tgt Ion:119 Resp: 21455

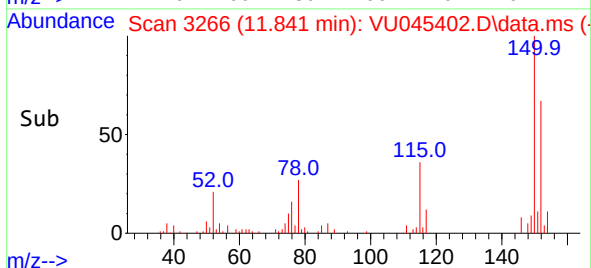
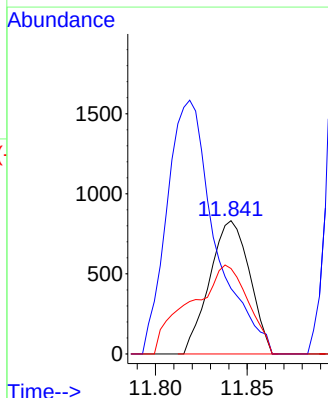
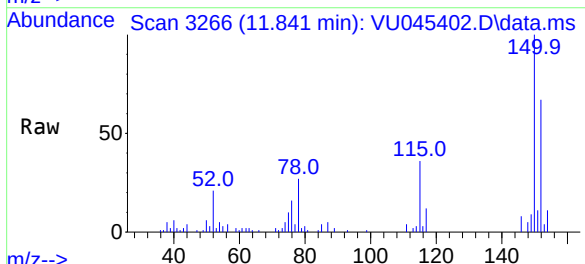
Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.8	38.3
91	26.8	12.2	36.6

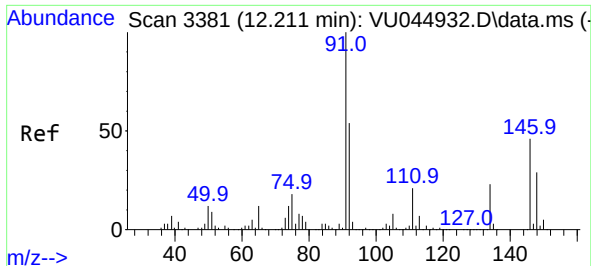


#88
 1,4-Dichlorobenzene
 Concen: 0.204 ug/l
 RT: 11.841 min Scan# 3266
 Delta R.T. 0.000 min
 Lab File: VU045402.D
 Acq: 26 Oct 2021 15:05

Tgt Ion:146 Resp: 1263

Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.3	61.0#
148	96.5	31.8	95.3#



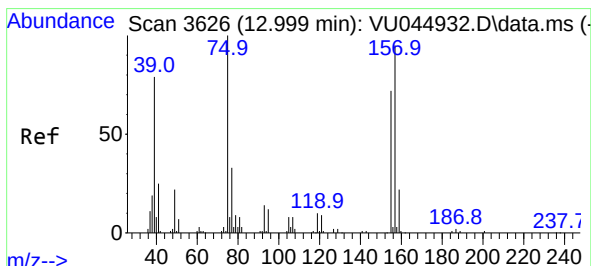
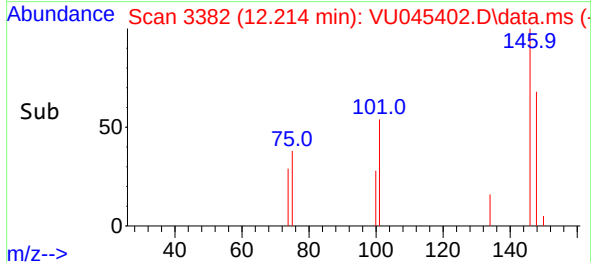
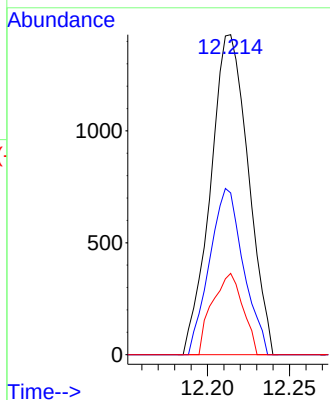
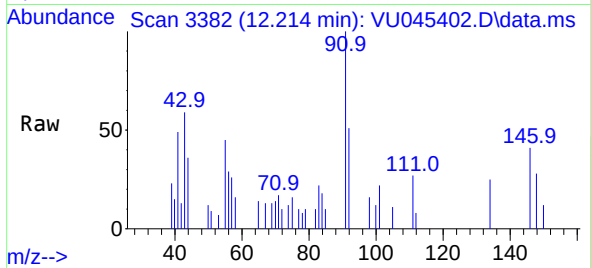


#89
n-Butylbenzene
Concen: 0.215 ug/l
RT: 12.214 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Instrument :
MSVOA_U
ClientSampleId :
20877DL

Tgt Ion: 91 Resp: 2288

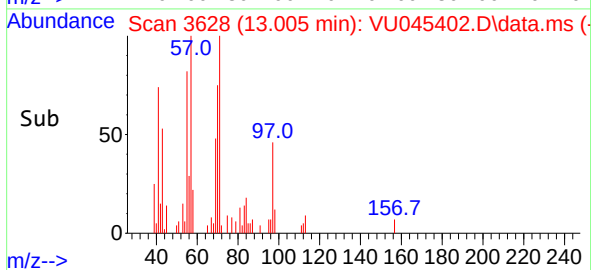
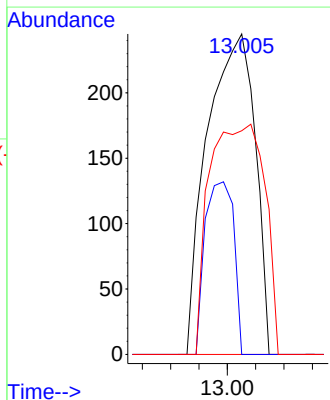
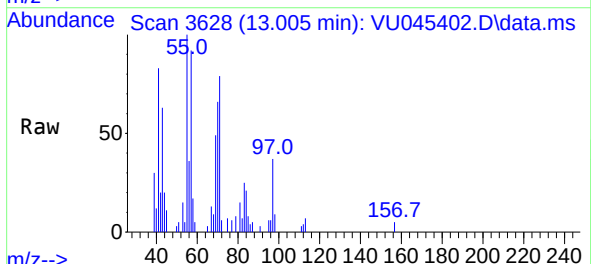
Ion	Ratio	Lower	Upper
91	100		
92	46.6	26.8	80.4
134	20.5	11.8	35.4

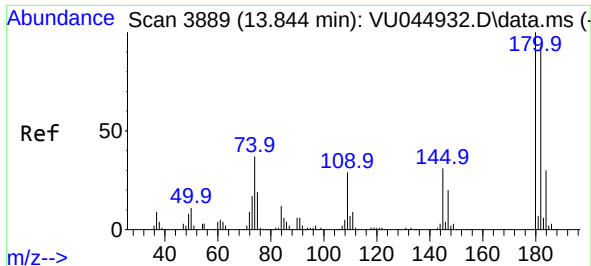


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.215 ug/l
RT: 13.005 min Scan# 3628
Delta R.T. 0.006 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Tgt Ion: 75 Resp: 287

Ion	Ratio	Lower	Upper
75	100		
155	32.4	36.9	110.6#
157	82.6	47.8	143.3





#93

1,2,4-Trichlorobenzene

Concen: 0.625 ug/l

RT: 13.847 min Scan# 3889

Delta R.T. 0.003 min

Lab File: VU045402.D

Acq: 26 Oct 2021 15:05

Instrument :

MSVOA_U

ClientSampleId :

20877DL

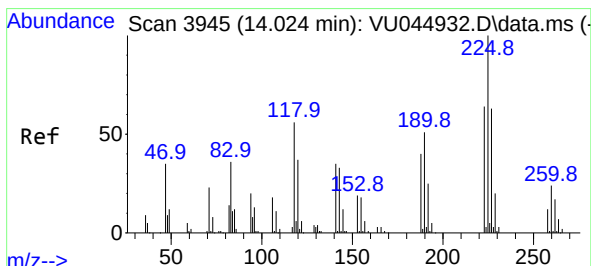
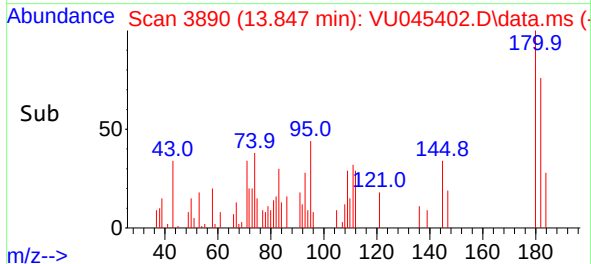
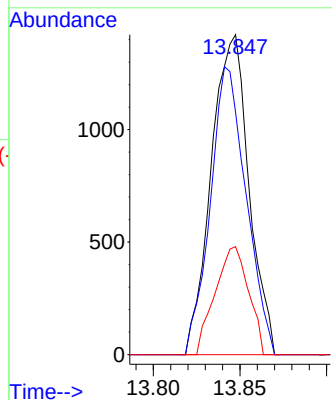
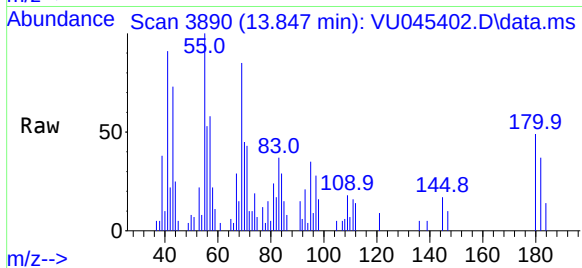
Tgt Ion:180 Resp: 2152

Ion Ratio Lower Upper

180 100

182 85.5 47.4 142.3

145 29.9 15.4 46.2



#94

Hexachlorobutadiene

Concen: 0.204 ug/l

RT: 14.024 min Scan# 3945

Delta R.T. 0.000 min

Lab File: VU045402.D

Acq: 26 Oct 2021 15:05

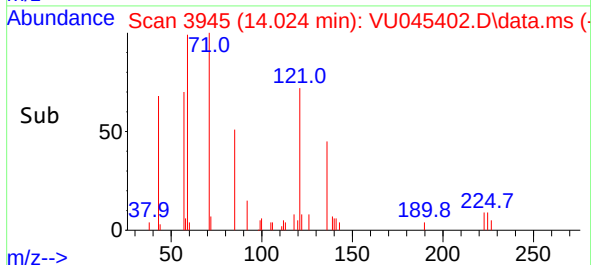
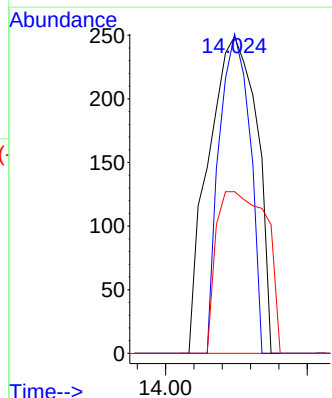
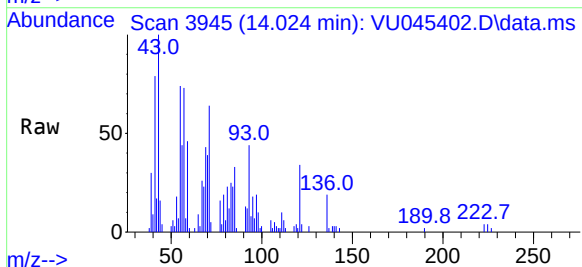
Tgt Ion:225 Resp: 294

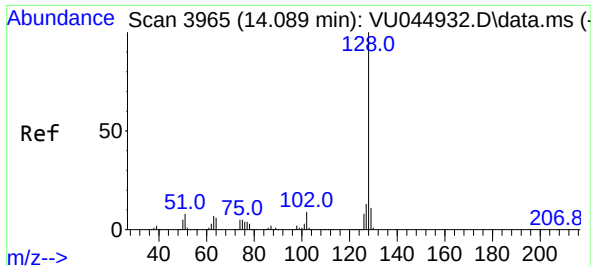
Ion Ratio Lower Upper

225 100

223 64.3 31.1 93.3

227 53.1 31.4 94.3

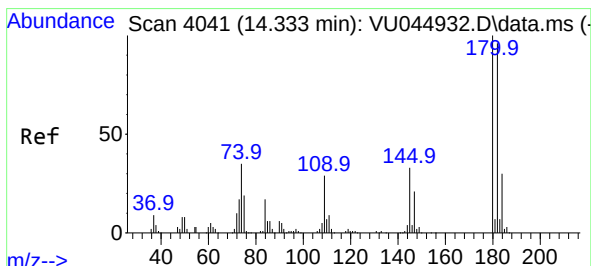
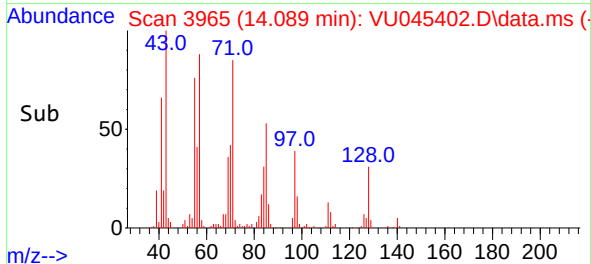
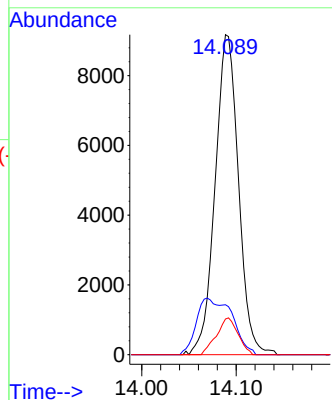
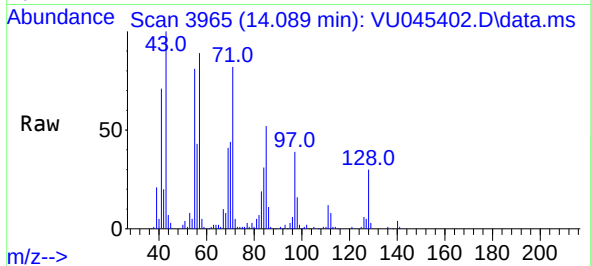




#95
Naphthalene
Concen: 1.216 ug/l
RT: 14.089 min Scan# 3965
Delta R.T. -0.000 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Instrument :
MSVOA_U
ClientSampleId :
20877DL

Tgt Ion:128 Resp: 15757
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 10.6 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 0.747 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.000 min
Lab File: VU045402.D
Acq: 26 Oct 2021 15:05

Tgt Ion:180 Resp: 2584
Ion Ratio Lower Upper
180 100
182 91.2 47.1 141.4
145 30.9 16.4 49.2

