

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100621\
 Data File : VU0451180.D
 Acq On : 06 Oct 2021 13:01
 Operator : SY/MD
 Sample : M4024-14
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 07 03:01:51 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 07 03:00:32 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	289790	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	290749	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.815	152	136162	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	111577	35.172	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.340%
7) Chloroethane-d5	1.906	69	95376	37.940	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	75.880%
11) 1,1-Dichloroethene-d2	2.578	63	496127	93.126	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	186.260%#
21) 2-Butanone-d5	4.661	46	256337	102.209	ug/L	0.04
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.210%
24) Chloroform-d	5.070	84	193453	38.610	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.220%
26) 1,2-Dichloroethane-d4	5.706	65	141528	41.701	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.400%
32) Benzene-d6	5.732	84	405110	40.154	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.300%
36) 1,2-Dichloropropane-d6	6.697	67	134743	40.960	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	81.920%
41) Toluene-d8	7.902	98	363301	41.727	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	83.460%
43) trans-1,3-Dichloroprop...	8.182	79	60655	41.450	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.900%
47) 2-Hexanone-d5	8.635	63	158669	87.036	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	87.040%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	214672	41.907	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	83.820%
66) 1,2-Dichlorobenzene-d4	12.195	152	133648	45.102	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.200%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	1001815	295.652	ug/L	100
8) Chloroethane	1.819	64	4057	1.908	ug/L #	49
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	2395	0.978	ug/L #	27
12) 1,1-Dichloroethene	2.581	96	619659	276.128	ug/L #	68
13) Acetone	2.632	43	31429	10.841	ug/L	98
14) Carbon disulfide	2.803	76	112681	15.673	ug/L	99
15) Methyl Acetate	2.954	43	3815	1.067	ug/L	98
16) Methylene chloride	3.050	84	35990	12.659	ug/L	95
17) trans-1,2-Dichloroethene	3.366	96	291564	123.336	ug/L	99
19) 1,1-Dichloroethane	3.877	63	619093	125.884	ug/L	99
25) Chloroform	5.099	83	10706	2.190	ug/L	96
27) 1,2-Dichloroethane	5.800	62	35054	8.572	ug/L	100
30) 1,1,1-Trichloroethane	5.324	97	6282637	1560.993	ug/L	98
33) Benzene	5.777	78	18184	1.686	ug/L	100
34) Trichloroethene	6.546	95	578677	223.415	ug/L	100
35) Methylcyclohexane	6.771	83	2151	0.496	ug/L #	77
40) 4-Methyl-2-pentanone	7.796	43	18936	3.861	ug/L	100
42) Toluene	7.973	91	155818	14.221	ug/L	99
44) trans-1,3-Dichloropropene	8.182	75	2775	0.695	ug/L #	78

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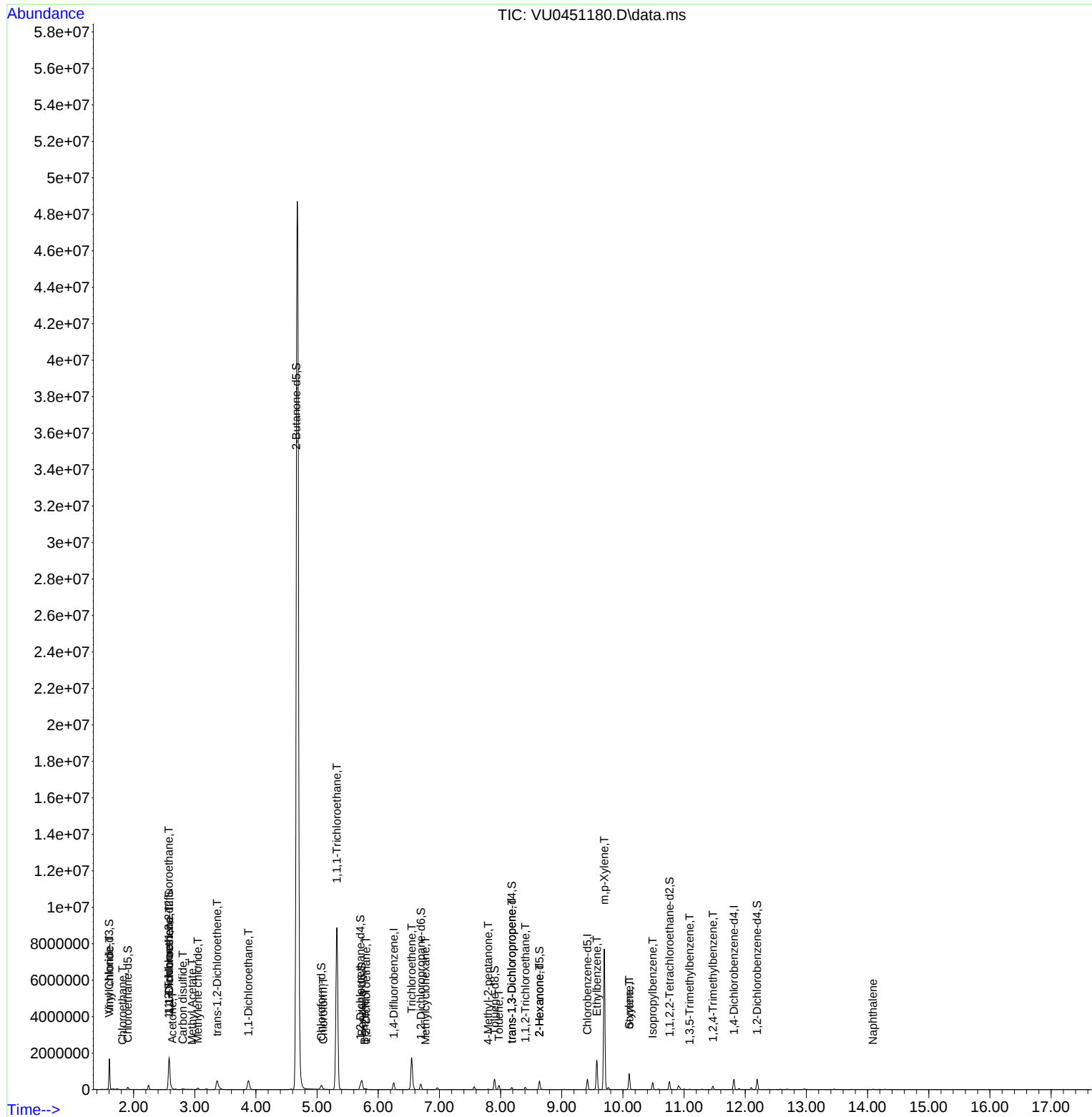
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.404	97	38195	14.355	ug/L	98
48) 2-Hexanone	8.635	43	19738	4.538	ug/L #	68
52) Ethylbenzene	9.574	91	1110831	95.970	ug/L	100
53) m,p-Xylene	9.697	106	2048390	467.156	ug/L	99
54) o-xylene	10.102	106	222868	51.724	ug/L	99
55) Styrene	10.102	104	12351	1.667	ug/L #	1
61) Isopropylbenzene	10.487	105	243869	24.473	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	13491	1.621	ug/L	99
63) 1,2,4-Trimethylbenzene	11.471	105	98326	11.538	ug/L	98
71) Naphthalene	14.089	128	21347	2.320	ug/L	99

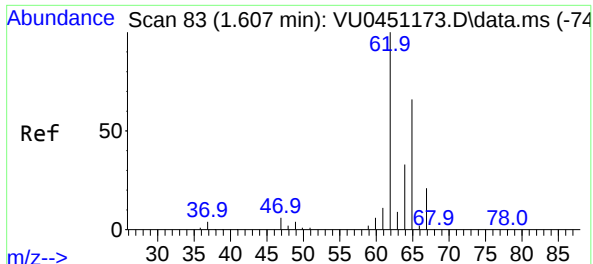
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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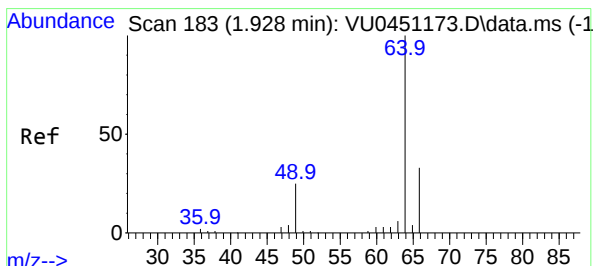
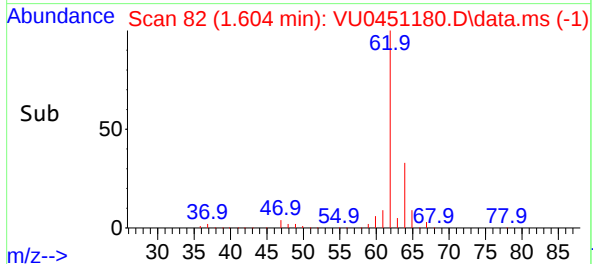
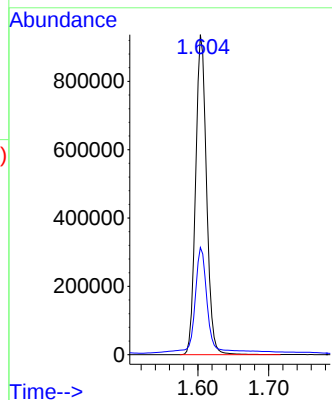
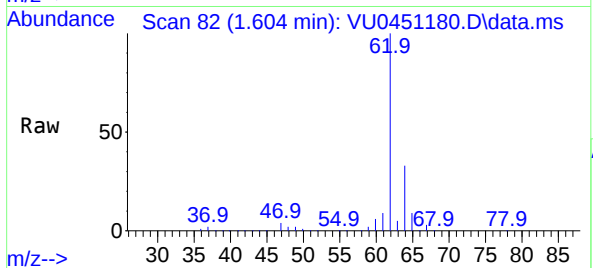




#5
 Vinyl chloride
 Concen: 295.652 ug/L
 RT: 1.604 min Scan# 82
 Delta R.T. -0.003 min
 Lab File: VU0451180.D
 Acq: 06 Oct 2021 13:01

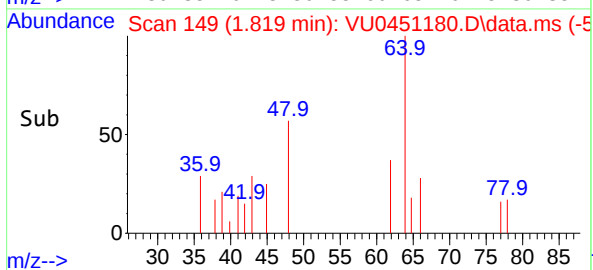
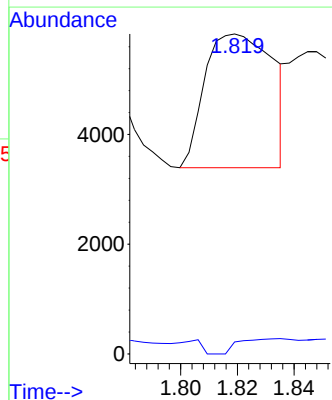
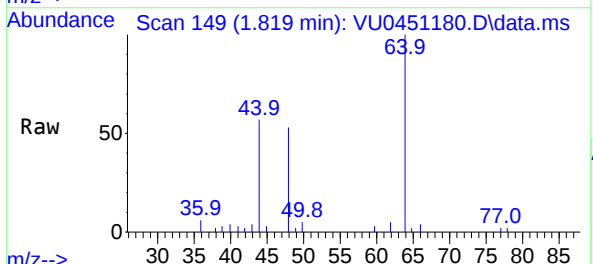
Instrument :
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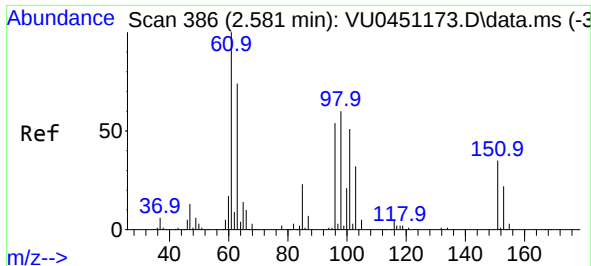
Tgt Ion: 62 Resp: 1001815
 Ion Ratio Lower Upper
 62 100
 64 33.5 23.4 43.6



#8
 Chloroethane
 Concen: 1.908 ug/L
 RT: 1.819 min Scan# 149
 Delta R.T. -0.109 min
 Lab File: VU0451180.D
 Acq: 06 Oct 2021 13:01

Tgt Ion: 64 Resp: 4057
 Ion Ratio Lower Upper
 64 100
 66 3.7 22.3 41.3#

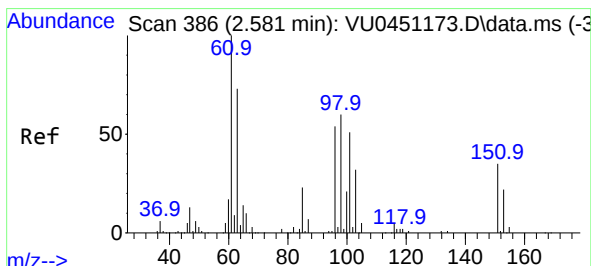
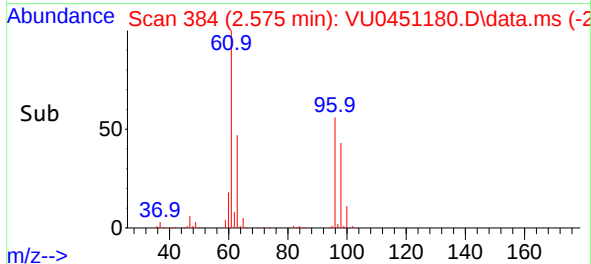
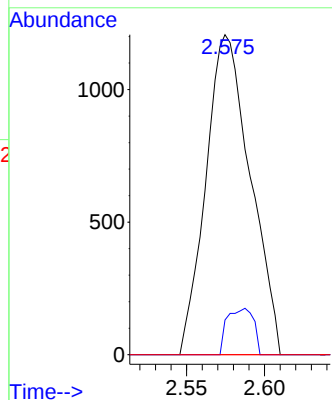
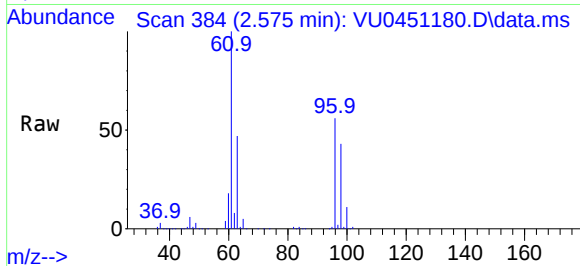




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.978 ug/L
RT: 2.575 min Scan# 384
Delta R.T. -0.006 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

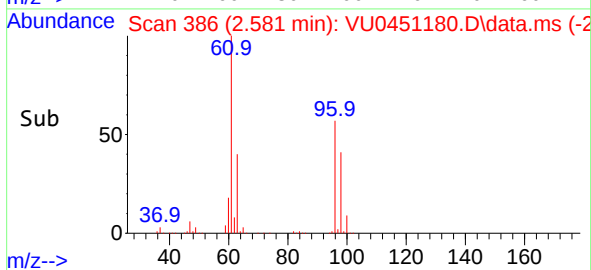
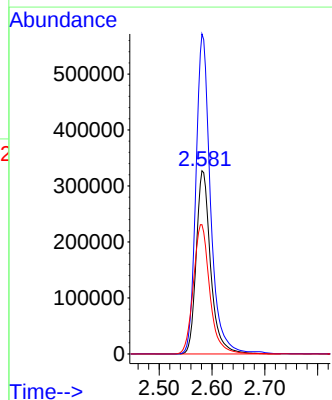
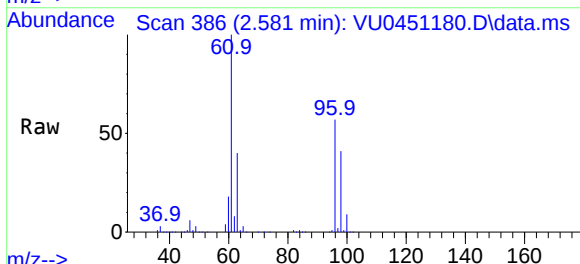
Instrument :
MSVOA_U
ClientSampled :

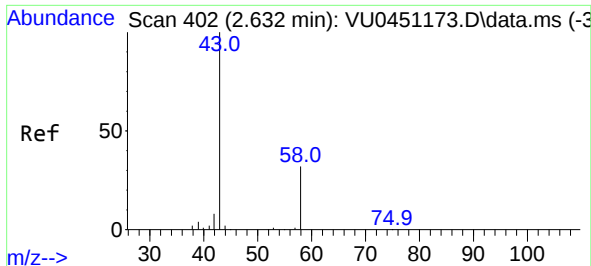
Tgt Ion:101 Resp: 2395
Ion Ratio Lower Upper
101 100
85 8.6 36.4 54.6#
151 0.0 54.4 81.6#



#12
1,1-Dichloroethene
Concen: 276.128 ug/L
RT: 2.581 min Scan# 386
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion: 96 Resp: 619659
Ion Ratio Lower Upper
96 100
61 174.7 131.3 243.9
63 70.5 102.5 190.3#

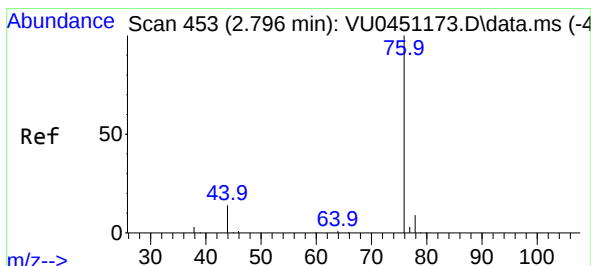
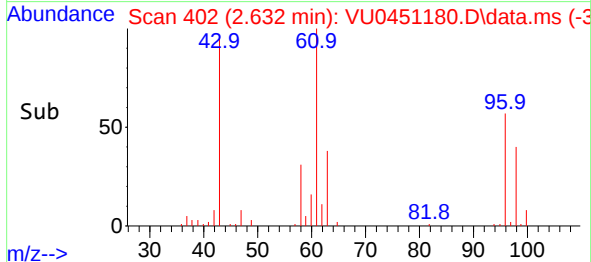
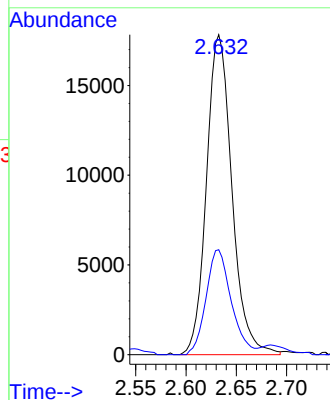
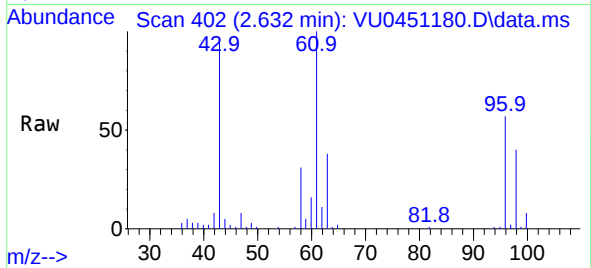




#13
Acetone
Concen: 10.841 ug/L
RT: 2.632 min Scan# 402
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

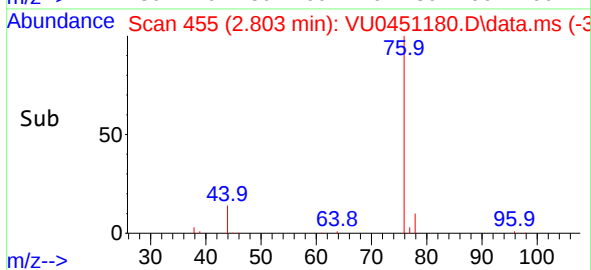
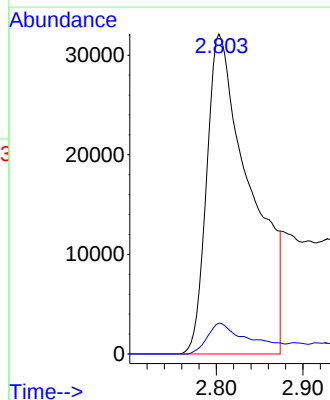
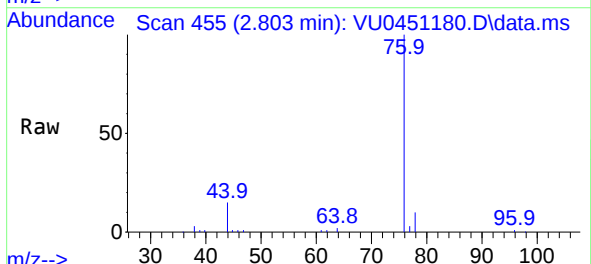
Instrument :
MSVOA_U
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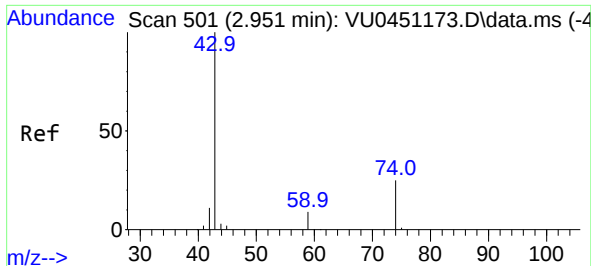
Tgt Ion: 43 Resp: 31429
Ion Ratio Lower Upper
43 100
58 32.3 0.0 62.8



#14
Carbon disulfide
Concen: 15.673 ug/L
RT: 2.803 min Scan# 455
Delta R.T. 0.006 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion: 76 Resp: 112681
Ion Ratio Lower Upper
76 100
78 9.6 7.3 10.9

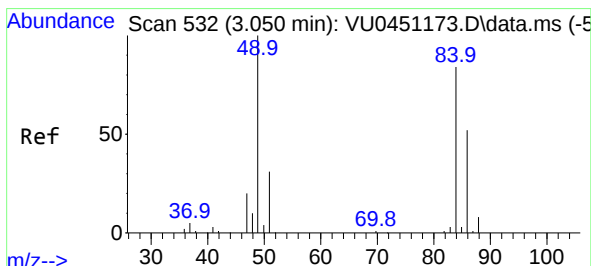
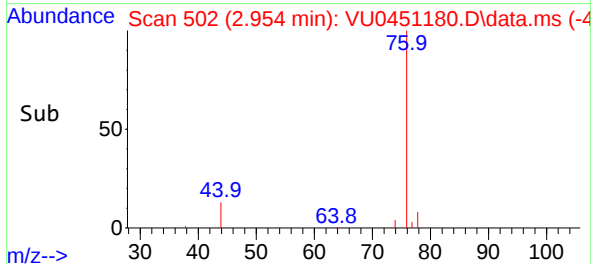
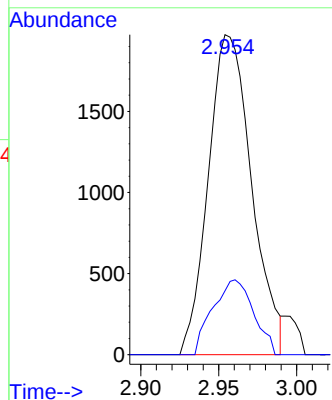
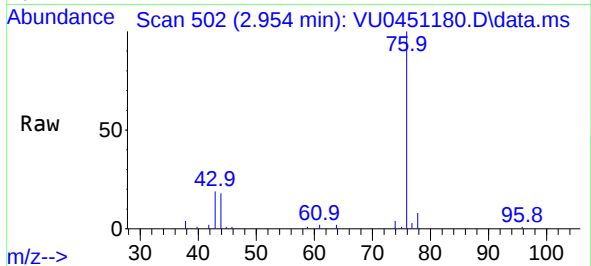




#15
Methyl Acetate
Concen: 1.067 ug/L
RT: 2.954 min Scan# 502
Delta R.T. 0.003 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

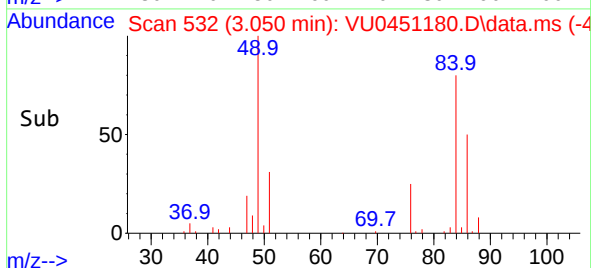
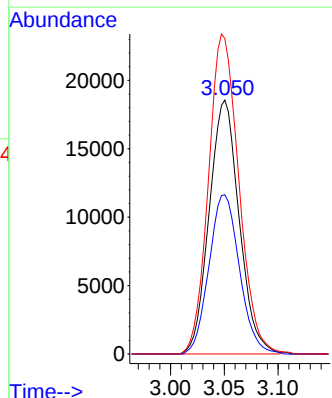
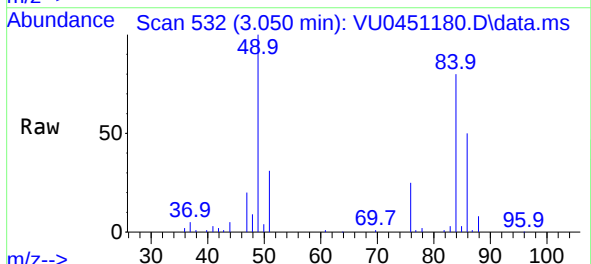
Instrument :
MSVOA_U
ClientSampled :

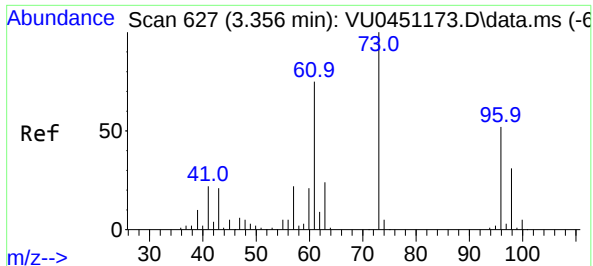
Tgt Ion: 43 Resp: 3815
Ion Ratio Lower Upper
43 100
74 22.1 18.4 27.6



#16
Methylene chloride
Concen: 12.659 ug/L
RT: 3.050 min Scan# 532
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion: 84 Resp: 35990
Ion Ratio Lower Upper
84 100
86 62.7 44.7 83.1
49 124.2 92.9 172.5

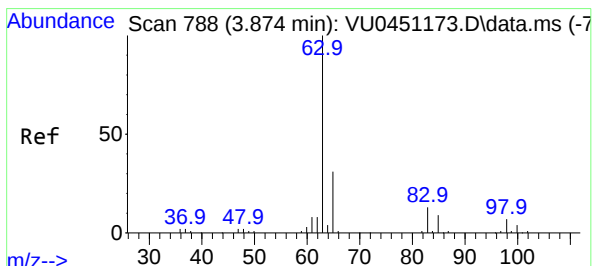
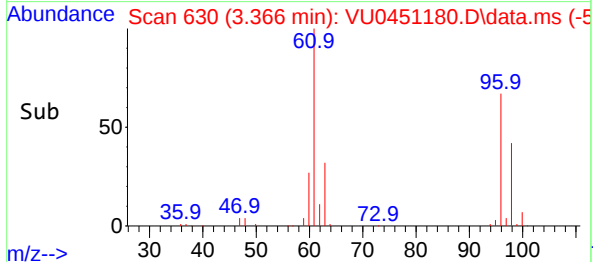
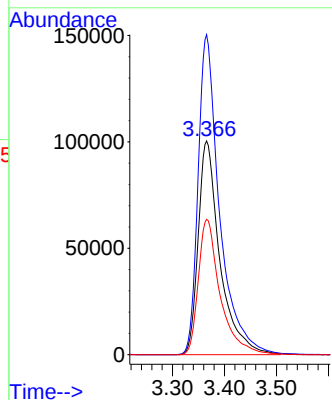
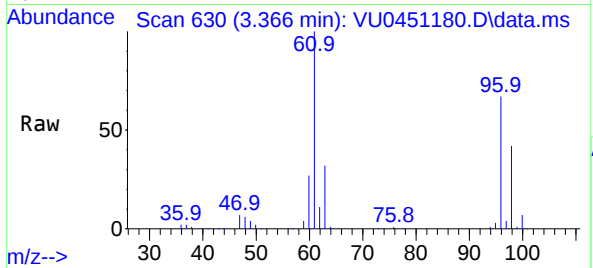




#17
trans-1,2-Dichloroethene
Concen: 123.336 ug/L
RT: 3.366 min Scan# 630
Delta R.T. 0.010 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

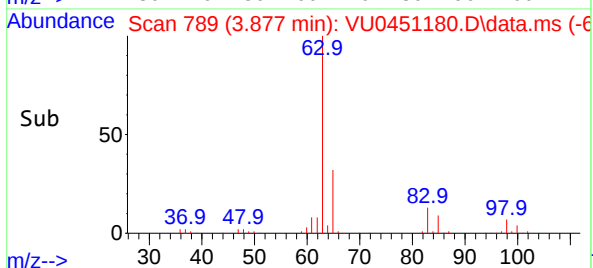
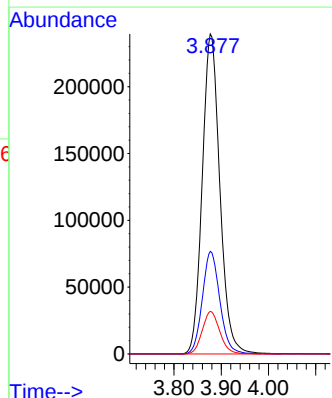
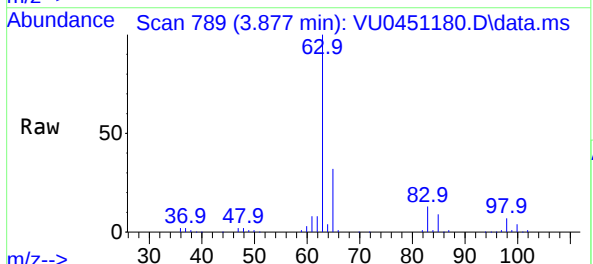
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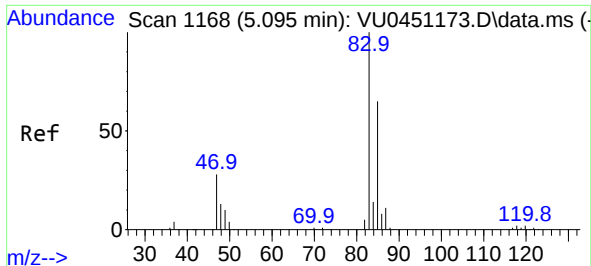
Tgt Ion: 96 Resp: 291564
Ion Ratio Lower Upper
96 100
61 149.7 105.1 195.3
98 63.3 43.0 79.8



#19
1,1-Dichloroethane
Concen: 125.884 ug/L
RT: 3.877 min Scan# 789
Delta R.T. 0.003 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion: 63 Resp: 619093
Ion Ratio Lower Upper
63 100
65 32.0 22.0 40.8
83 13.3 9.0 16.6

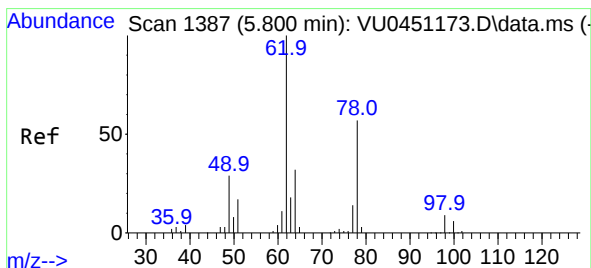
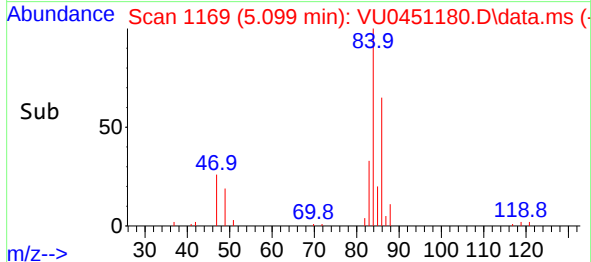
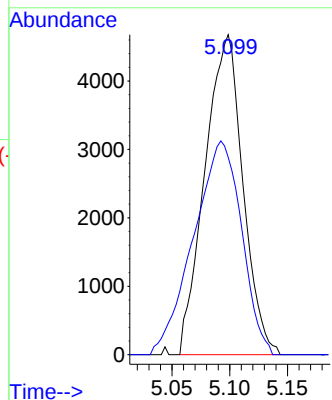
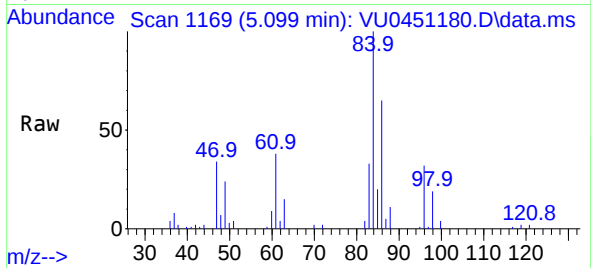




#25
Chloroform
Concen: 2.190 ug/L
RT: 5.099 min Scan# 1169
Delta R.T. 0.003 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

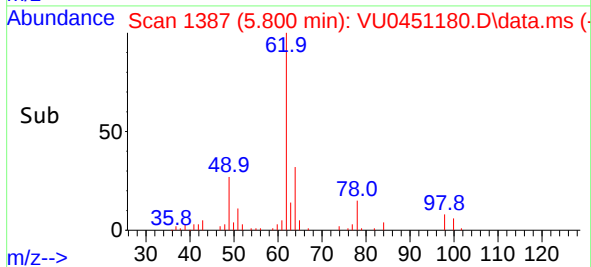
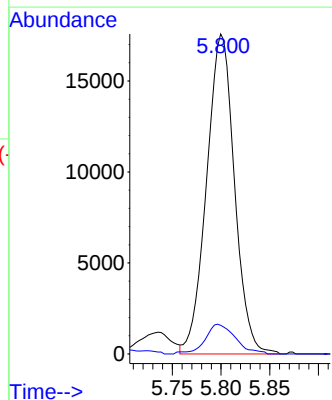
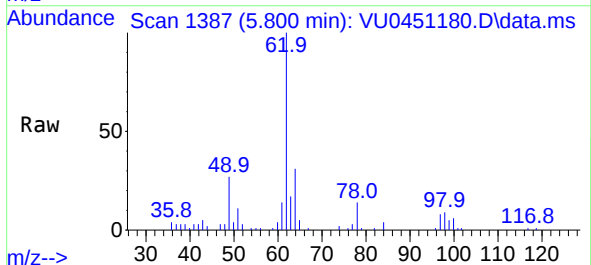
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ClientSampleId :

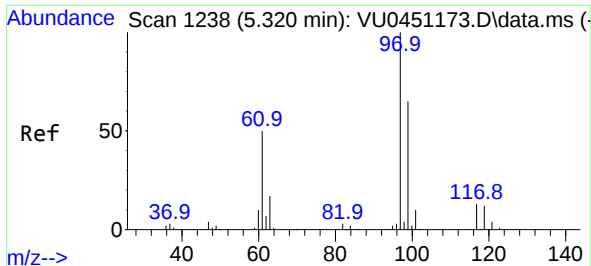
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Ion Ratio Lower Upper
83 100
85 61.7 45.6 84.6



#27
1,2-Dichloroethane
Concen: 8.572 ug/L
RT: 5.800 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion: 62 Resp: 35054
Ion Ratio Lower Upper
62 100
98 8.9 7.1 10.7

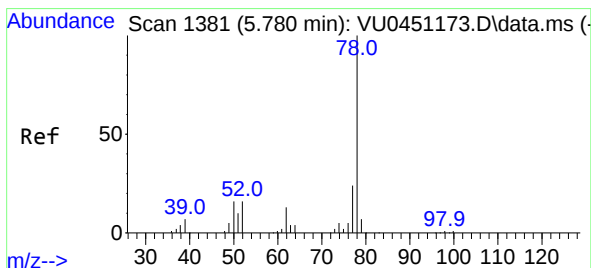
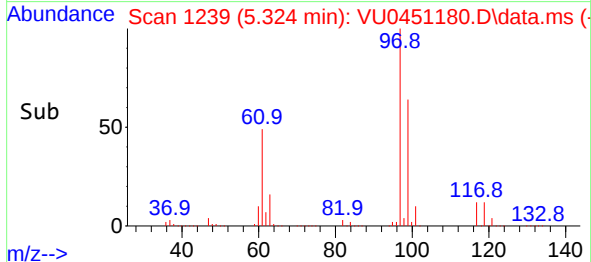
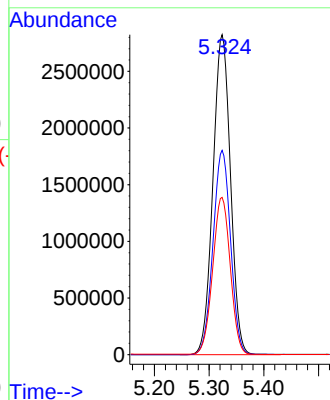
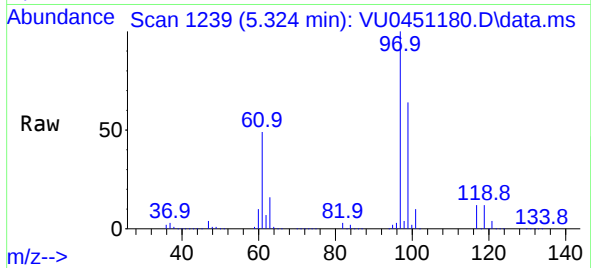




#30
1,1,1-Trichloroethane
Concen: 1560.993 ug/L
RT: 5.324 min Scan# 1239
Delta R.T. 0.003 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

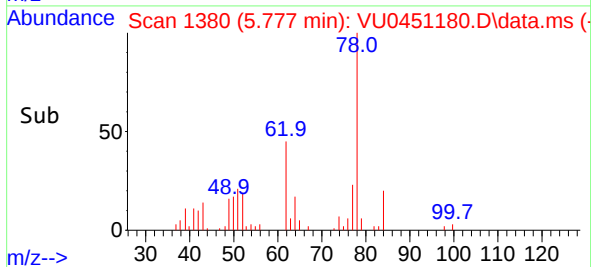
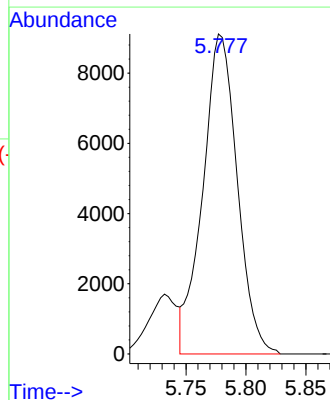
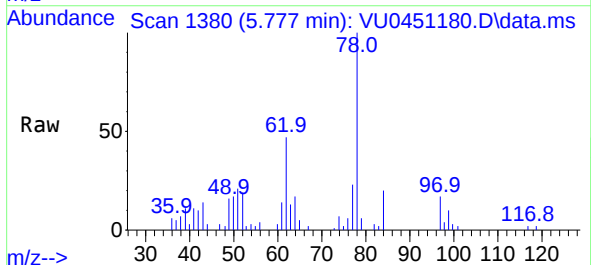
Instrument :
MSVOA_U
ClientSampled :

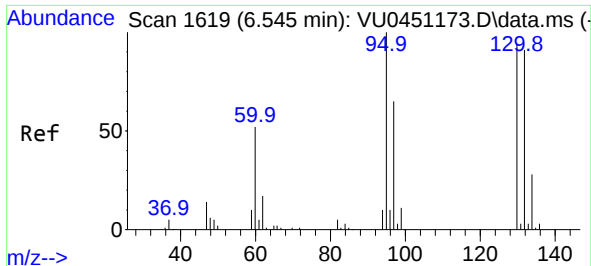
Tgt Ion: 97 Resp: 6282637
Ion Ratio Lower Upper
97 100
99 63.9 50.6 75.8
61 49.3 41.3 61.9



#33
Benzene
Concen: 1.686 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. -0.003 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion: 78 Resp: 18184

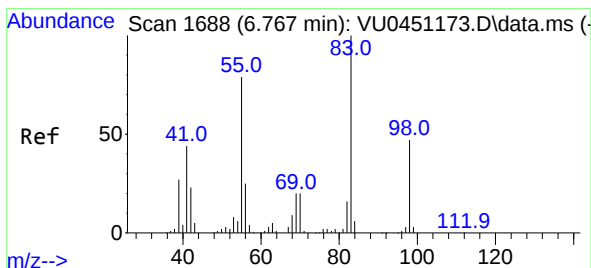
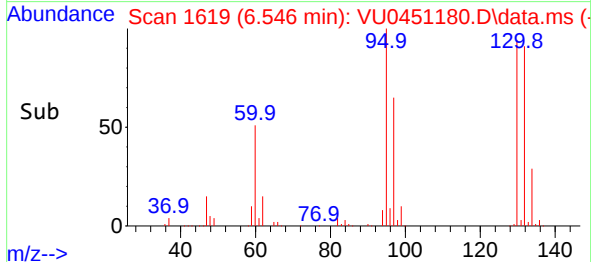
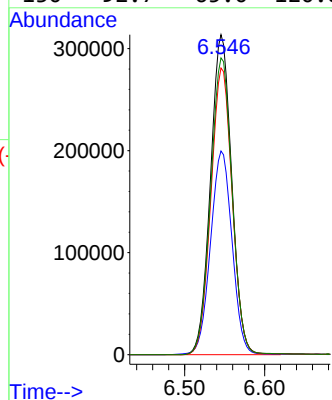
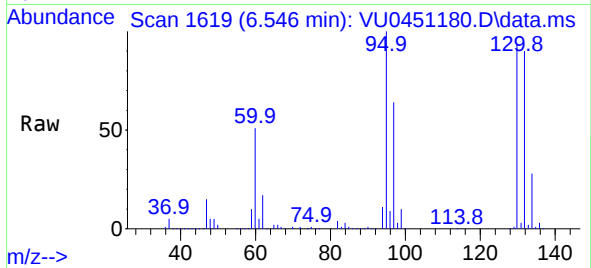




#34
Trichloroethene
Concen: 223.415 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

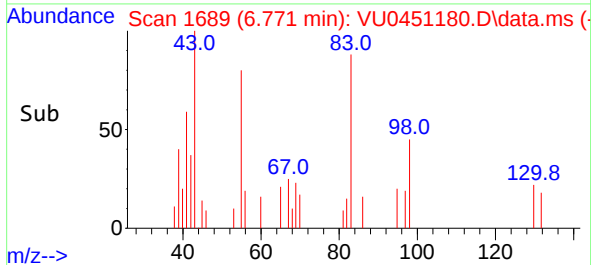
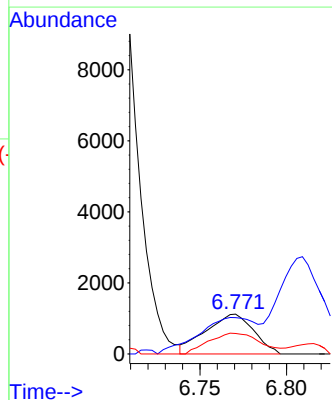
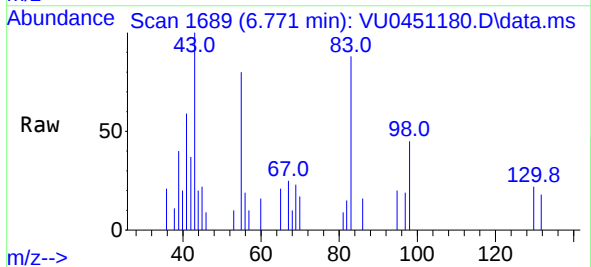
Instrument :
MSVOA_U
ClientSampled :

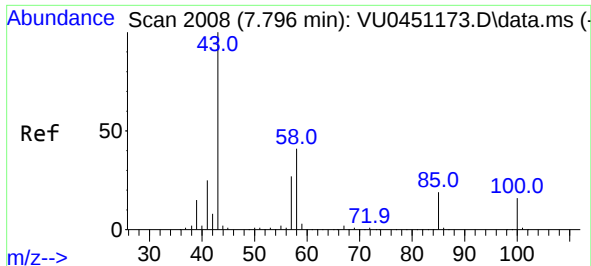
Tgt Ion: 95 Resp: 578677
Ion Ratio Lower Upper
95 100
97 63.7 44.4 82.4
132 89.6 62.9 116.9
130 92.7 65.0 120.8



#35
Methylcyclohexane
Concen: 0.496 ug/L
RT: 6.771 min Scan# 1689
Delta R.T. 0.003 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion: 83 Resp: 2151
Ion Ratio Lower Upper
83 100
55 107.5 65.8 98.6#
98 56.1 37.1 55.7#

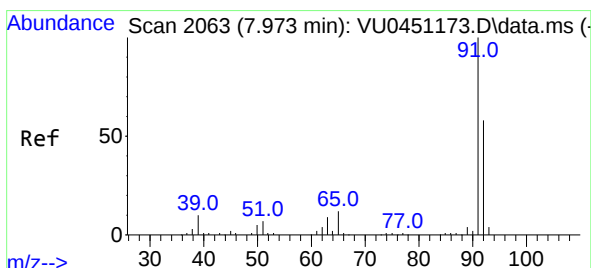
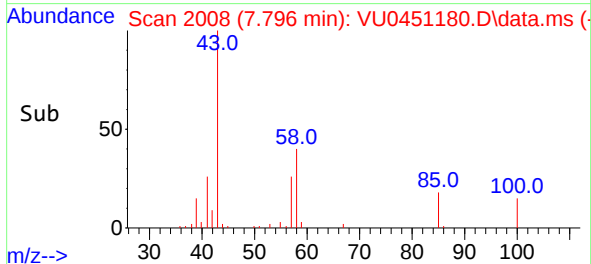
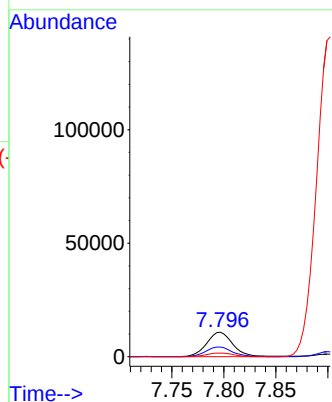
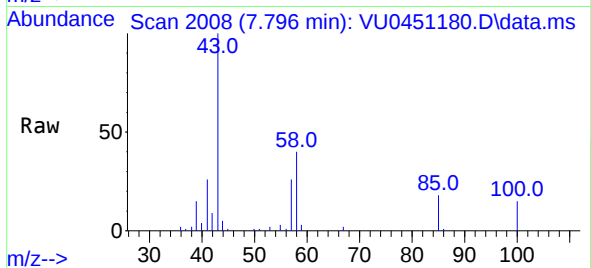




#40
4-Methyl-2-pentanone
Concen: 3.861 ug/L
RT: 7.796 min Scan# 2008
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

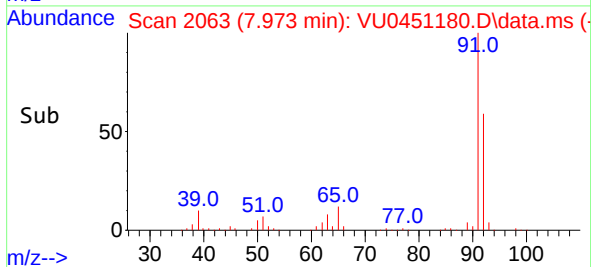
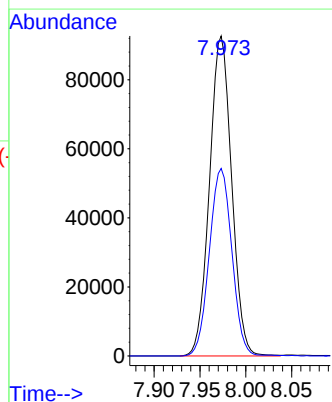
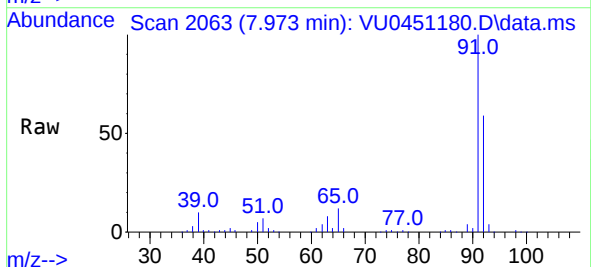
Instrument :
MSVOA_U
ClientSampled :

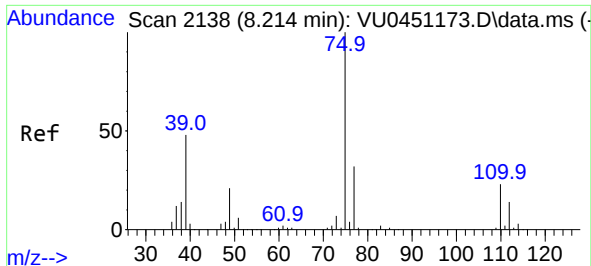
Tgt Ion: 43 Resp: 18936
Ion Ratio Lower Upper
43 100
58 40.0 31.8 47.8
100 15.0 11.8 17.6



#42
Toluene
Concen: 14.221 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion: 91 Resp: 155818
Ion Ratio Lower Upper
91 100
92 58.6 40.5 75.1

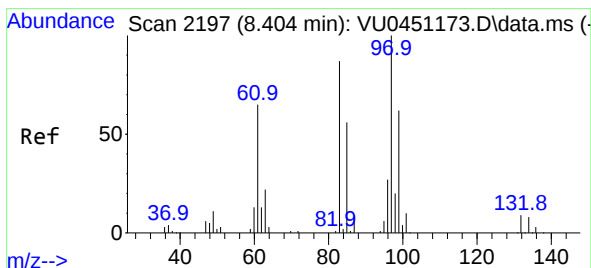
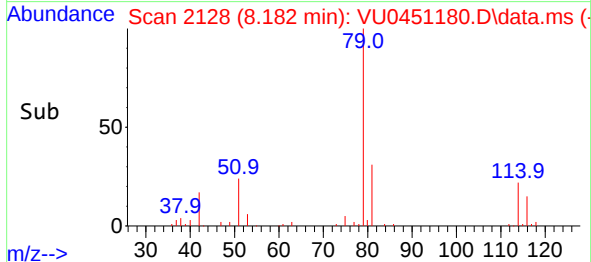
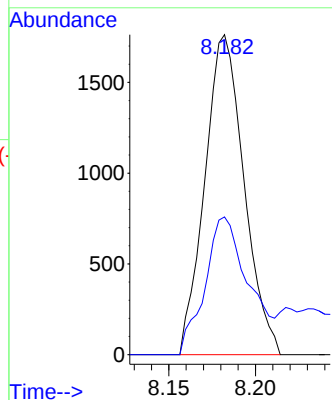
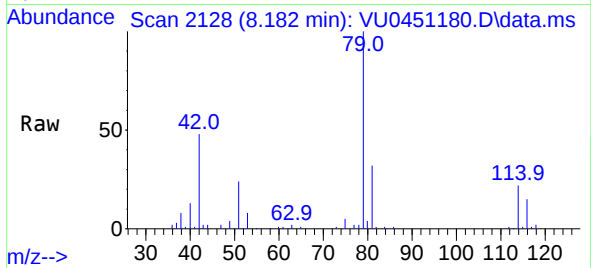




#44
trans-1,3-Dichloropropene
Concen: 0.695 ug/L
RT: 8.182 min Scan# 2128
Delta R.T. -0.032 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

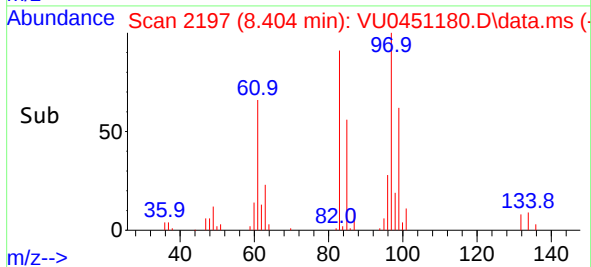
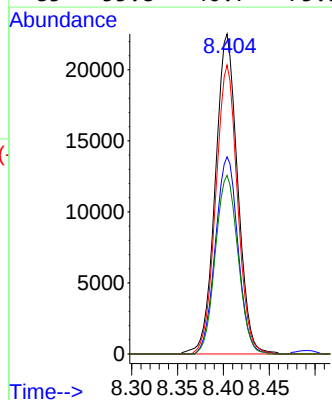
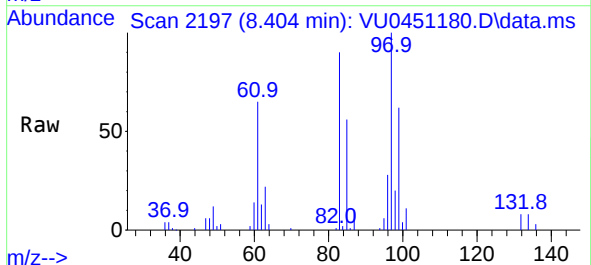
Instrument :
MSVOA_U
ClientSampled :

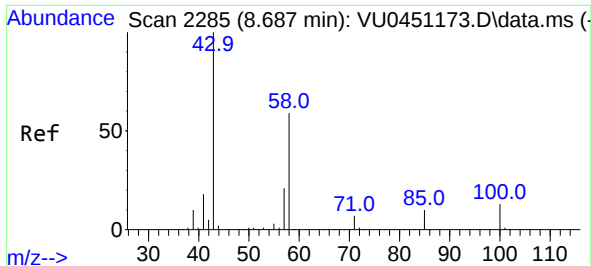
Tgt Ion: 75 Resp: 2775
Ion Ratio Lower Upper
75 100
77 43.1 21.7 40.3#



#45
1,1,2-Trichloroethane
Concen: 14.355 ug/L
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

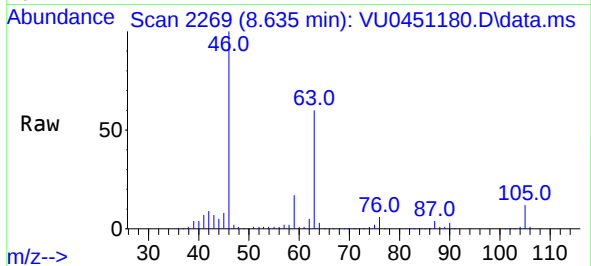
Tgt Ion: 97 Resp: 38195
Ion Ratio Lower Upper
97 100
99 61.6 43.7 81.1
83 90.3 61.9 115.1
85 55.8 40.7 75.5



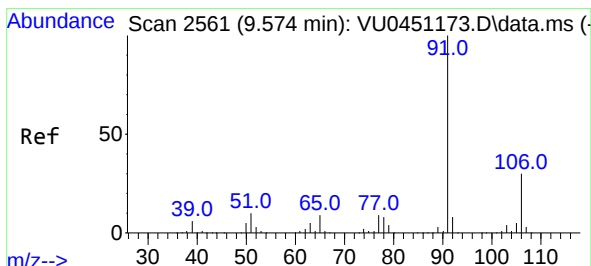
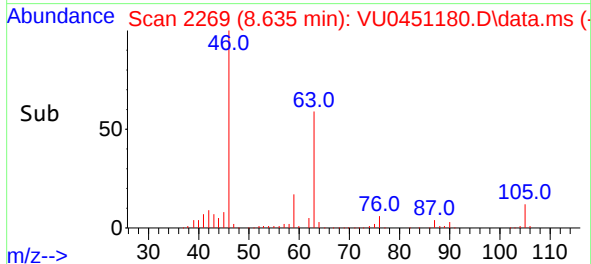
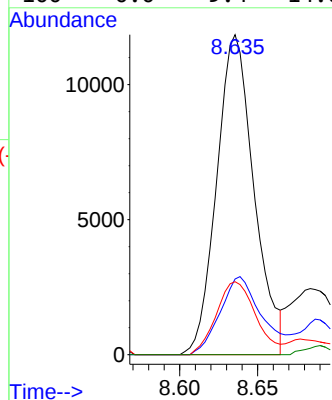


#48
2-Hexanone
Concen: 4.538 ug/L
RT: 8.635 min Scan# 2269
Delta R.T. -0.051 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Instrument :
MSVOA_U
ClientSampleId :

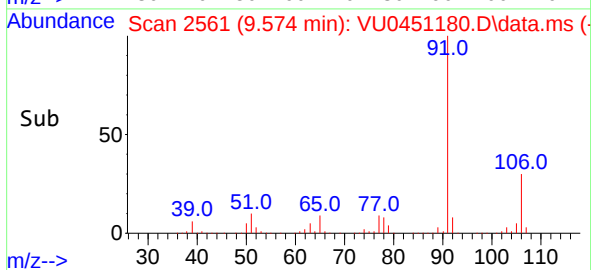
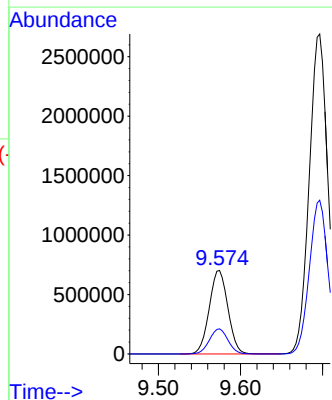
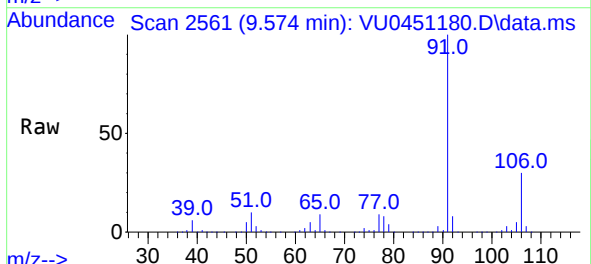


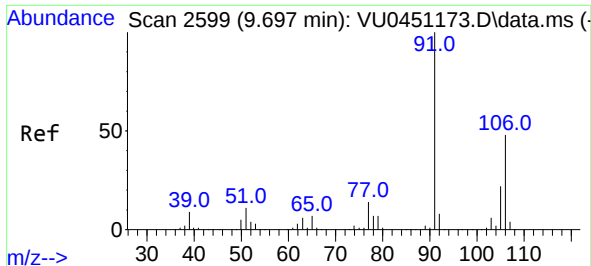
Tgt Ion: 43 Resp: 19738
Ion Ratio Lower Upper
43 100
58 27.0 44.9 67.3#
57 24.1 15.5 23.3#
100 0.0 9.4 14.0#



#52
Ethylbenzene
Concen: 95.970 ug/L
RT: 9.574 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion: 91 Resp: 1110831
Ion Ratio Lower Upper
91 100
106 30.1 21.2 39.4

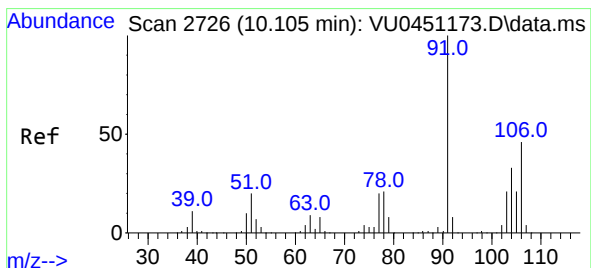
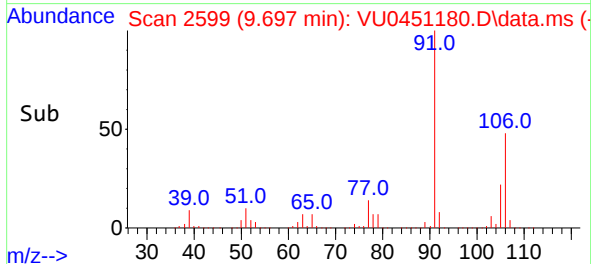
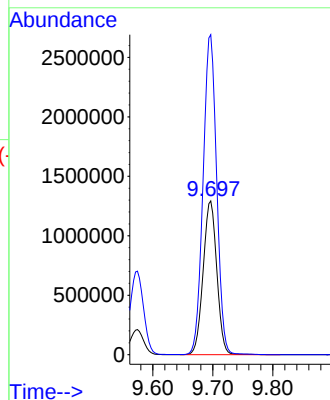
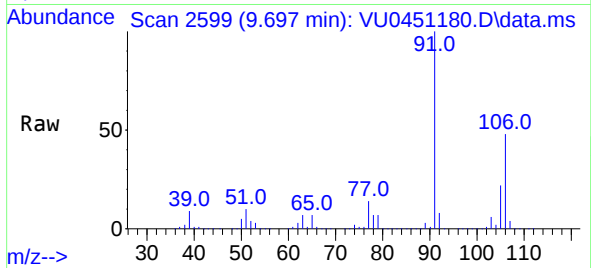




#53
m,p-Xylene
Concen: 467.156 ug/L
RT: 9.697 min Scan# 2599
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

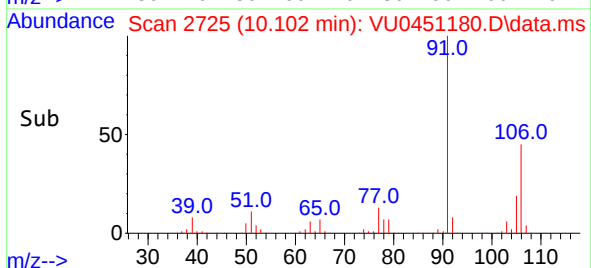
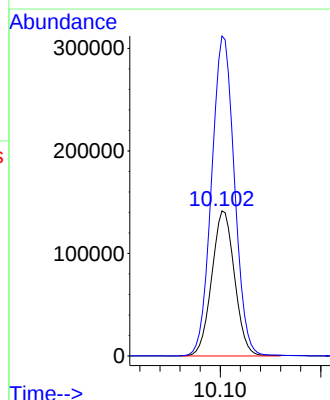
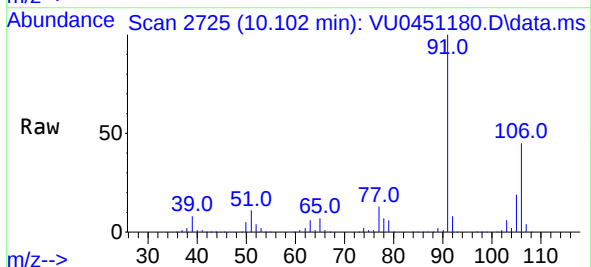
Instrument :
MSVOA_U
ClientSampled :

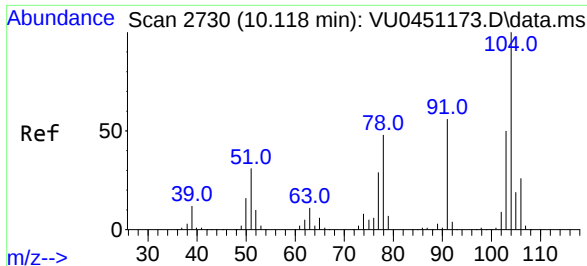
Tgt Ion:106 Resp: 2048390
Ion Ratio Lower Upper
106 100
91 208.1 146.7 272.4



#54
o-xylene
Concen: 51.724 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion:106 Resp: 222868
Ion Ratio Lower Upper
106 100
91 220.6 152.9 283.9

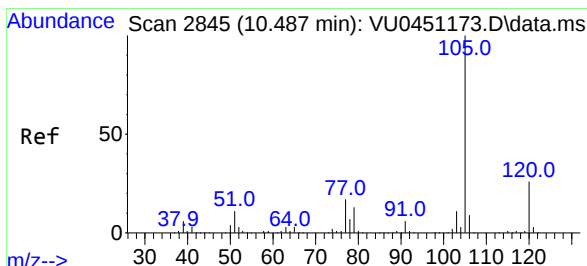
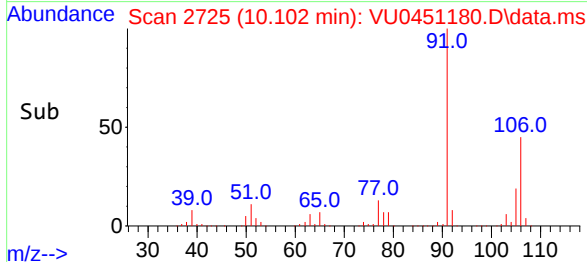
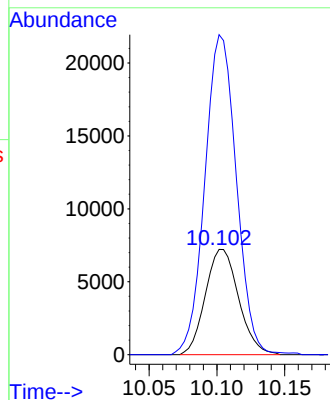
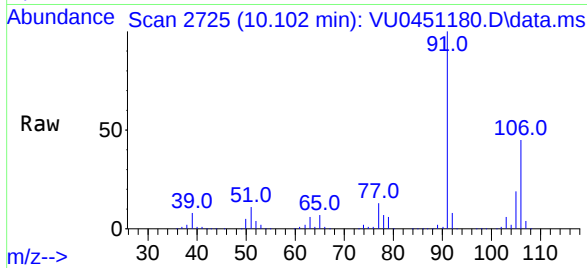




#55
Styrene
Concen: 1.667 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.016 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

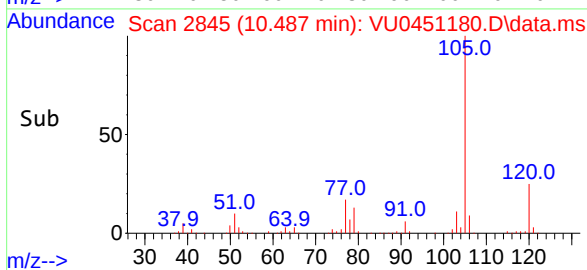
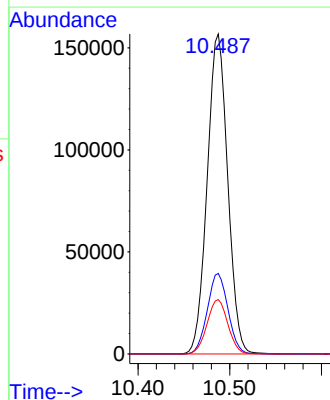
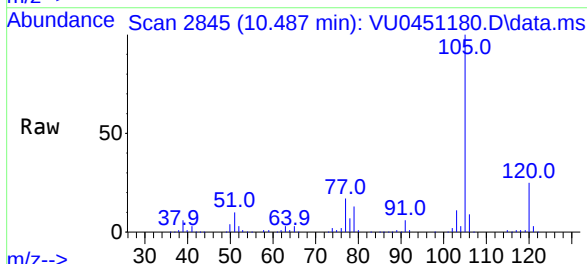
Instrument :
MSVOA_U
ClientSampled :

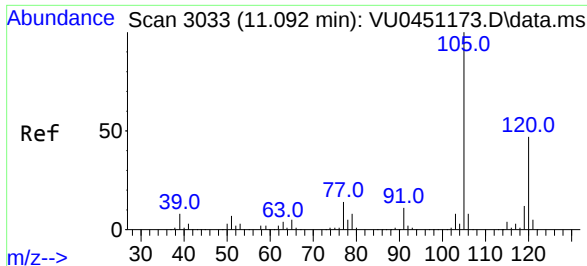
Tgt Ion:104 Resp: 12351
Ion Ratio Lower Upper
104 100
78 304.1 33.3 61.9#



#61
Isopropylbenzene
Concen: 24.473 ug/L
RT: 10.487 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion:105 Resp: 243869
Ion Ratio Lower Upper
105 100
120 25.3 20.5 30.7
77 17.2 13.5 20.3

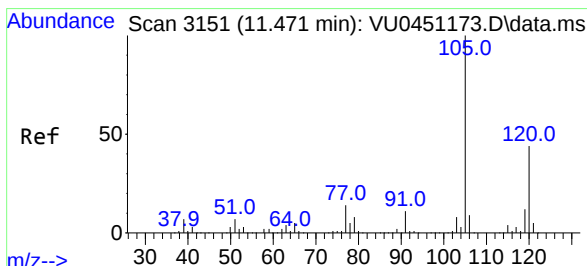
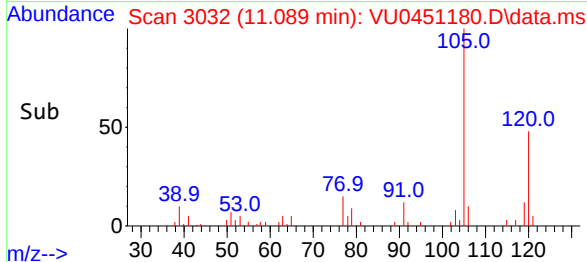
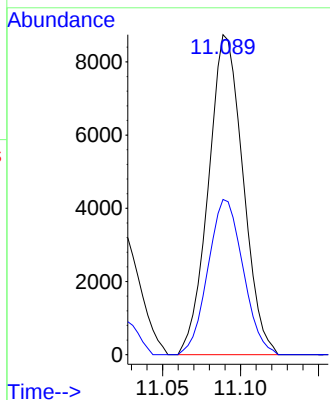
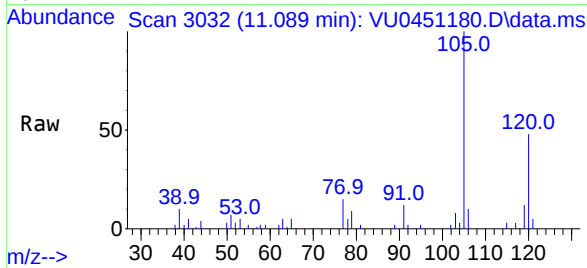




#62
1,3,5-Trimethylbenzene
Concen: 1.621 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

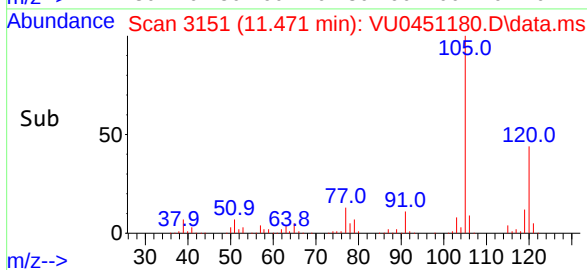
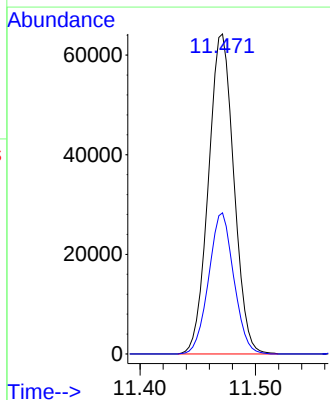
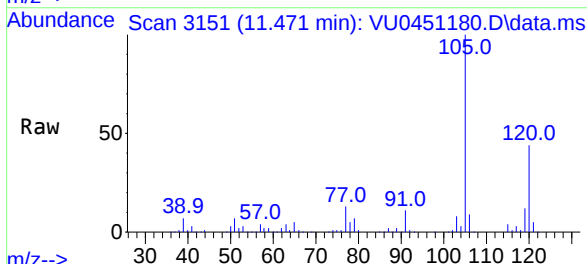
Instrument :
MSVOA_U
ClientSampled :

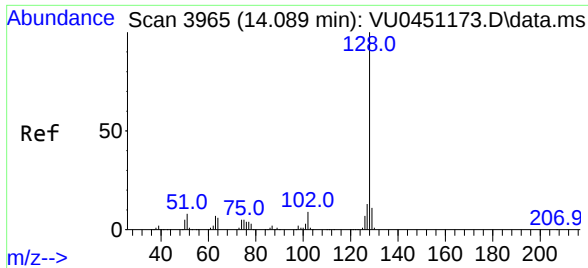
Tgt Ion:105 Resp: 13491
Ion Ratio Lower Upper
105 100
120 49.2 38.8 58.2



#63
1,2,4-Trimethylbenzene
Concen: 11.538 ug/L
RT: 11.471 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Tgt Ion:105 Resp: 98326
Ion Ratio Lower Upper
105 100
120 43.5 35.7 53.5





#71
Naphthalene
Concen: 2.320 ug/L
RT: 14.089 min Scan# 3965
Delta R.T. 0.000 min
Lab File: VU0451180.D
Acq: 06 Oct 2021 13:01

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:128 Resp: 21347
Ion Ratio Lower Upper
128 100
127 12.6 10.4 15.6
129 11.3 8.8 13.2

