

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100621\
 Data File : VU0451185.D
 Acq On : 06 Oct 2021 15:03
 Operator : SY/MD
 Sample : M4024-15
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 07 03:02:32 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	288129	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	277912	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.816	152	128113	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	106059	33.625	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	67.240%
7) Chloroethane-d5	1.900	69	93745	37.506	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	75.020%
11) 1,1-Dichloroethene-d2	2.565	63	126592	23.899	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	47.800%#
21) 2-Butanone-d5	4.629	46	220445	88.404	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	88.400%
24) Chloroform-d	5.070	84	201571	40.463	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.920%
26) 1,2-Dichloroethane-d4	5.707	65	143203	42.438	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.880%
32) Benzene-d6	5.732	84	410824	42.601	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.200%
36) 1,2-Dichloropropane-d6	6.694	67	134952	42.918	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	85.840%
41) Toluene-d8	7.903	98	353144	42.434	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.860%
43) trans-1,3-Dichloroprop...	8.182	79	56407	40.328	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.660%
47) 2-Hexanone-d5	8.636	63	156922	90.054	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.050%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	214519	43.811	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.620%
66) 1,2-Dichlorobenzene-d4	12.195	152	128153	45.964	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.920%
Target Compounds						Qvalue
3) Chloromethane	1.469	50	7028	2.044	ug/L #	42
5) Vinyl chloride	1.604	62	887028	263.285	ug/L #	82
8) Chloroethane	1.922	64	65840	31.137	ug/L #	73
12) 1,1-Dichloroethene	2.578	96	5454	2.444	ug/L #	1
13) Acetone	2.633	43	8802	3.054	ug/L	99
14) Carbon disulfide	2.803	76	21969	3.073	ug/L	99
17) trans-1,2-Dichloroethene	3.353	96	2386	1.015	ug/L	96
19) 1,1-Dichloroethane	3.874	63	106146	21.708	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	687794	265.558	ug/L	94
27) 1,2-Dichloroethane	5.803	62	2355	0.579	ug/L #	75
30) 1,1,1-Trichloroethane	5.321	97	4893	1.272	ug/L	96
33) Benzene	5.780	78	7349	0.713	ug/L	100
34) Trichloroethene	6.546	95	3203	1.294	ug/L	95
35) Methylcyclohexane	6.768	83	4331	1.045	ug/L	89
42) Toluene	7.973	91	100891	9.633	ug/L	99
48) 2-Hexanone	8.636	43	18783	4.518	ug/L #	70
52) Ethylbenzene	9.575	91	659696	59.627	ug/L	100
53) m,p-Xylene	9.697	106	716320	170.910	ug/L	98
54) o-xylene	10.105	106	161509	39.215	ug/L	100

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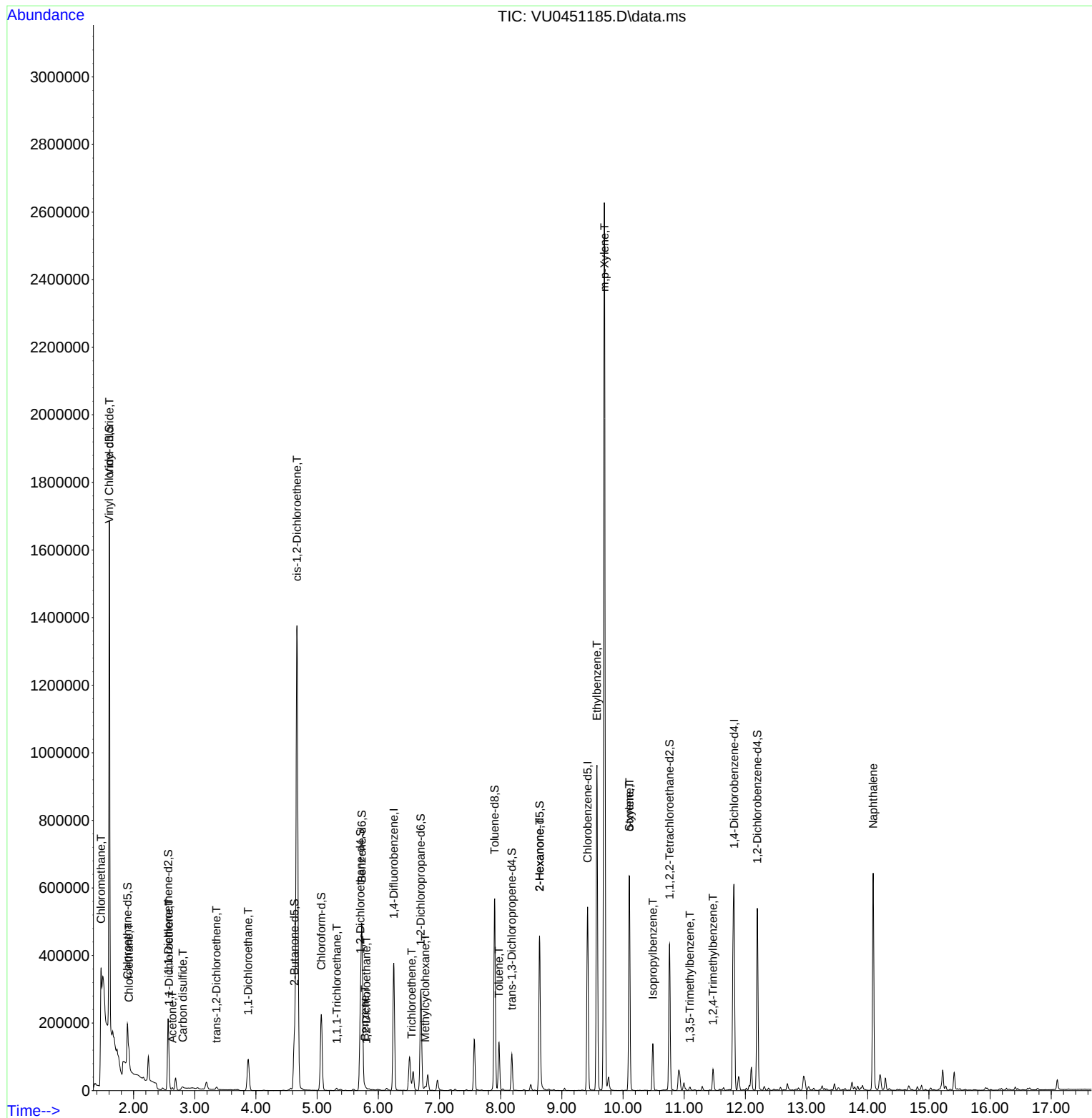
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.102	104	8325	1.175	ug/L #	1
61) Isopropylbenzene	10.488	105	86978	9.277	ug/L	99
62) 1,3,5-Trimethylbenzene	11.092	105	4593	0.587	ug/L	100
63) 1,2,4-Trimethylbenzene	11.472	105	30731	3.833	ug/L	98
71) Naphthalene	14.089	128	478314	55.239	ug/L	100

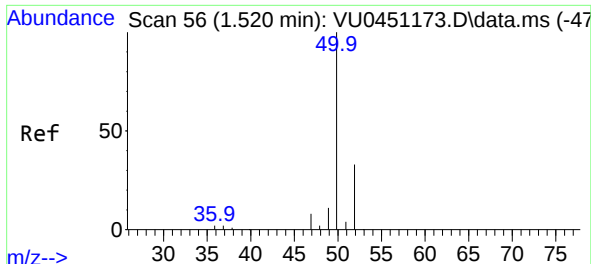
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 07 03:00:32 2021
Response via : Initial Calibration

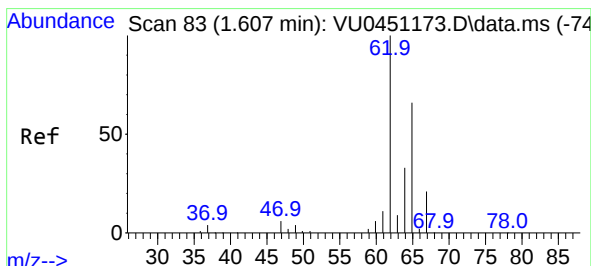
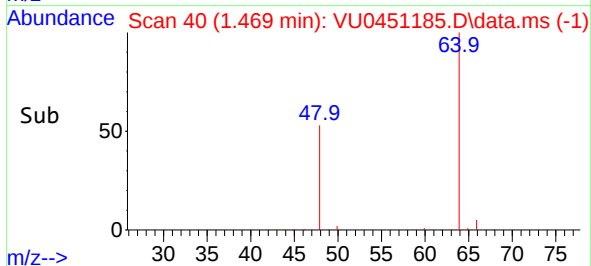
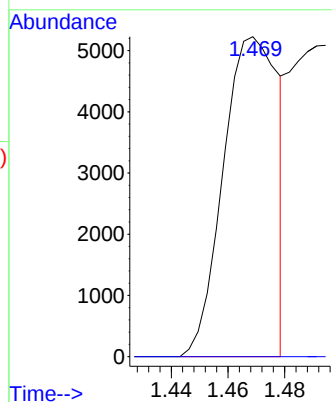
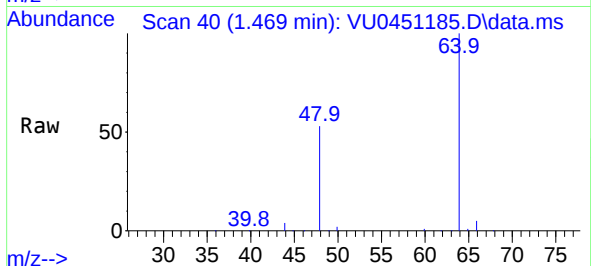




#3
Chloromethane
Concen: 2.044 ug/L
RT: 1.469 min Scan# 40
Delta R.T. -0.051 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

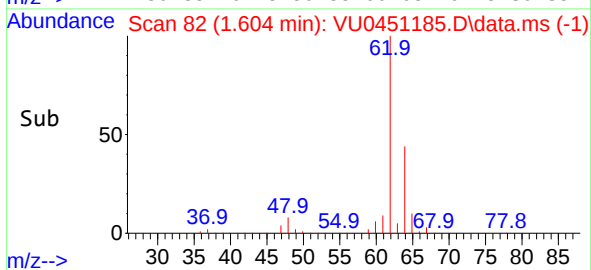
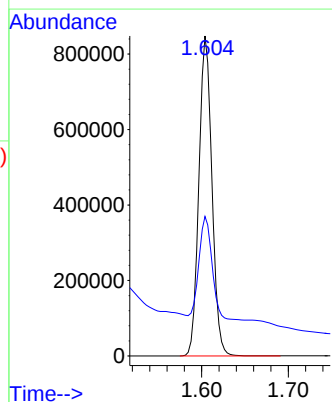
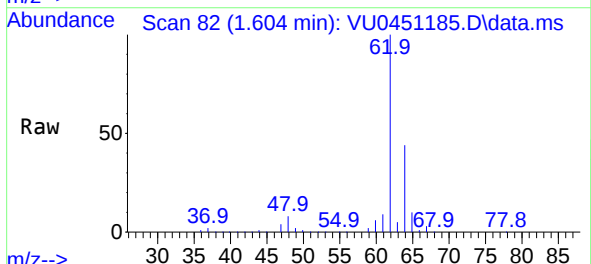
Instrument :
MSVOA_U
ClientSampled :

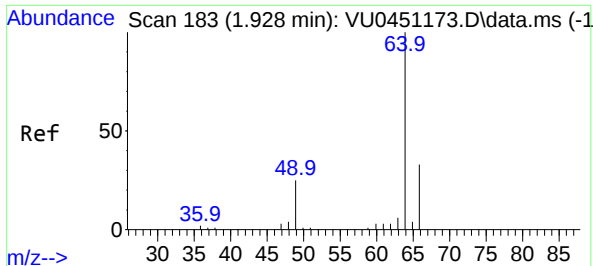
Tgt Ion: 50 Resp: 7028
Ion Ratio Lower Upper
50 100
52 0.0 23.0 42.8#



#5
Vinyl chloride
Concen: 263.285 ug/L
RT: 1.604 min Scan# 82
Delta R.T. -0.003 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Tgt Ion: 62 Resp: 887028
Ion Ratio Lower Upper
62 100
64 43.6 23.4 43.6#

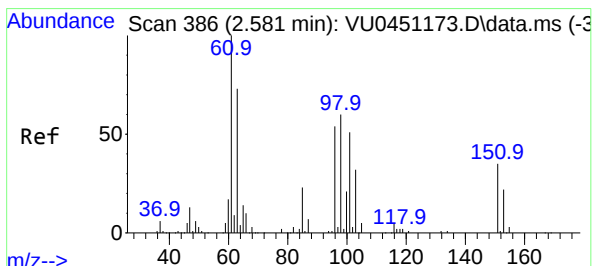
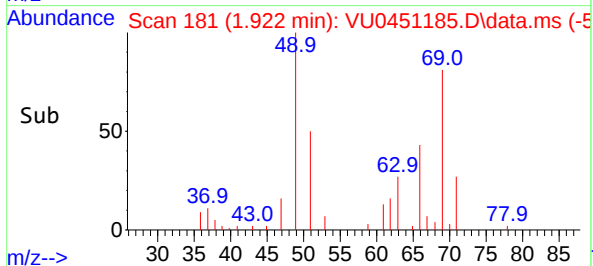
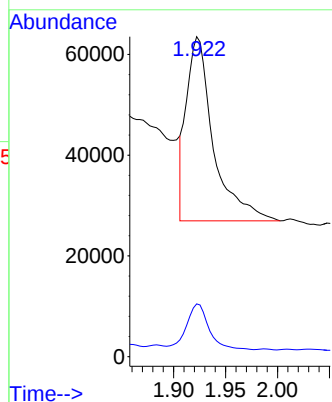
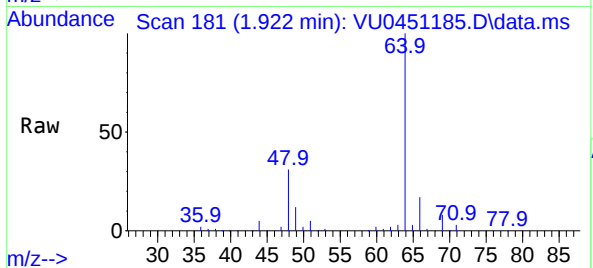




#8
Chloroethane
Concen: 31.137 ug/L
RT: 1.922 min Scan# 181
Delta R.T. -0.006 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

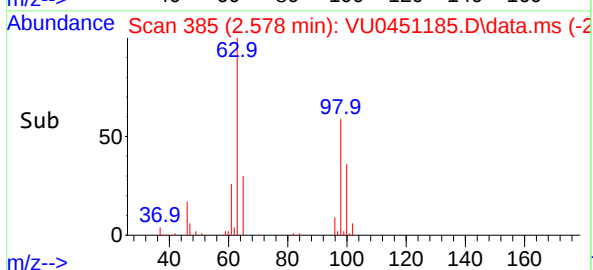
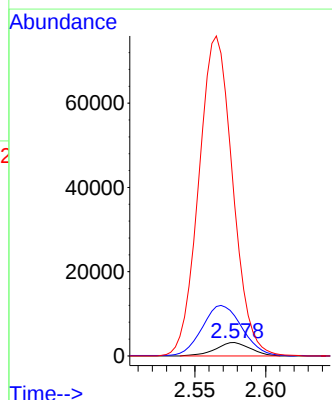
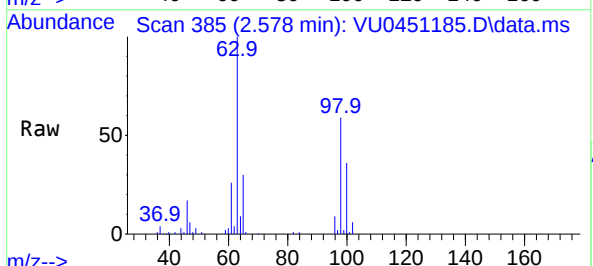
Instrument :
MSVOA_U
ClientSampled :

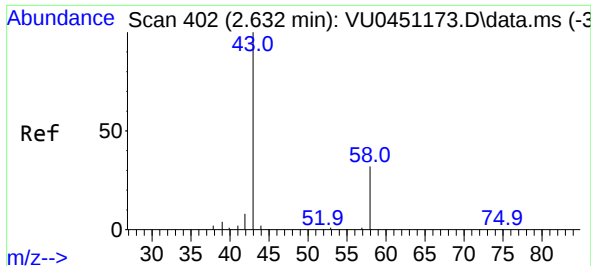
Tgt Ion: 64 Resp: 65840
Ion Ratio Lower Upper
64 100
66 16.5 22.3 41.3#



#12
1,1-Dichloroethene
Concen: 2.444 ug/L
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Tgt Ion: 96 Resp: 5454
Ion Ratio Lower Upper
96 100
61 298.2 131.3 243.9#
63 1128.4 102.5 190.3#

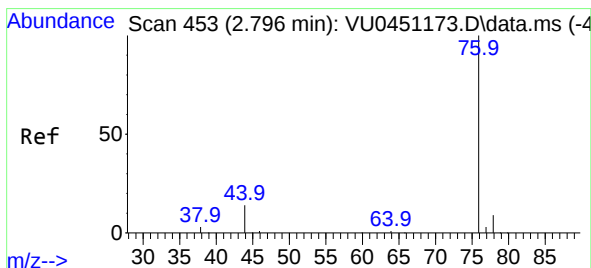
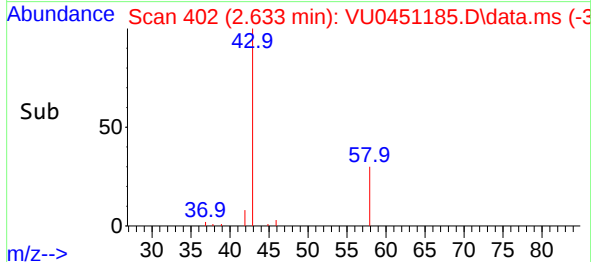
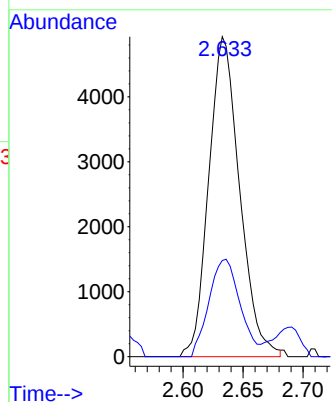
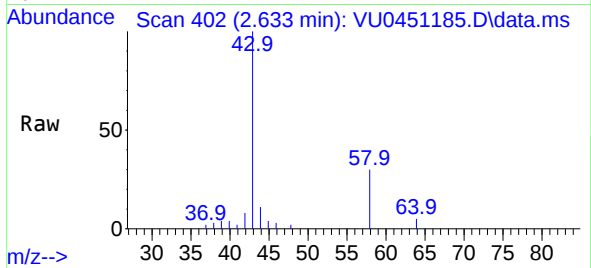




#13
Acetone
Concen: 3.054 ug/L
RT: 2.633 min Scan# 402
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

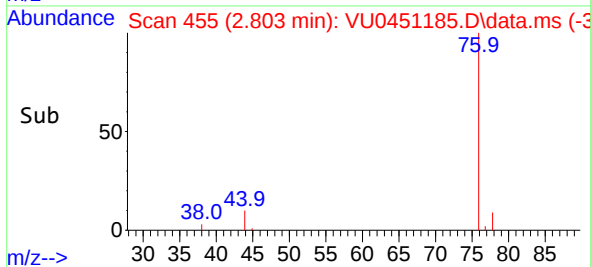
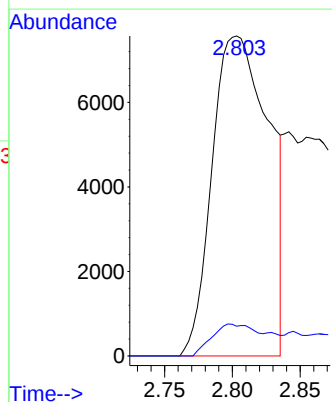
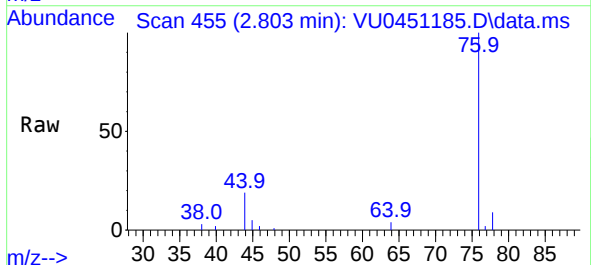
Instrument :
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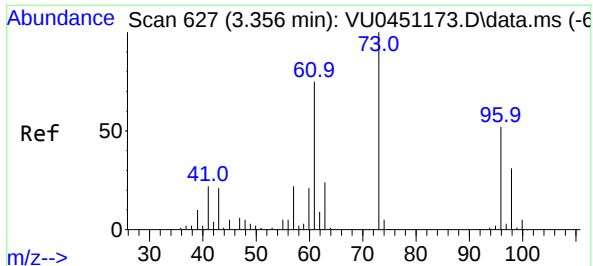
Tgt Ion: 43 Resp: 8802
Ion Ratio Lower Upper
43 100
58 31.0 0.0 62.8



#14
Carbon disulfide
Concen: 3.073 ug/L
RT: 2.803 min Scan# 455
Delta R.T. 0.007 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Tgt Ion: 76 Resp: 21969
Ion Ratio Lower Upper
76 100
78 9.3 7.3 10.9



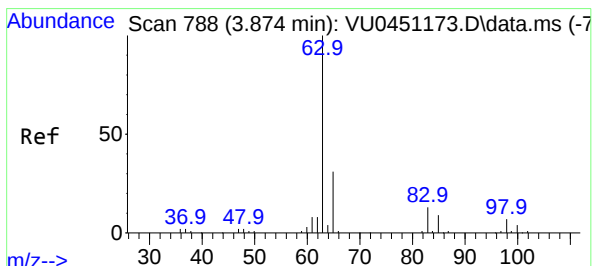
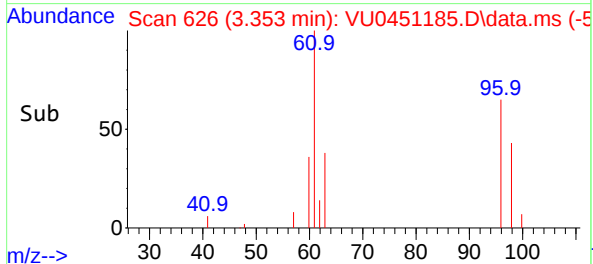
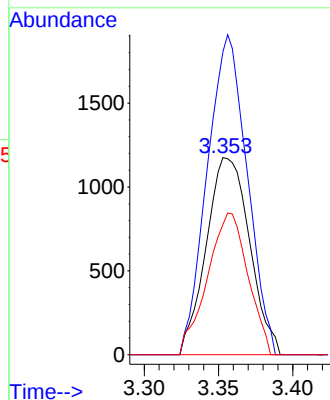
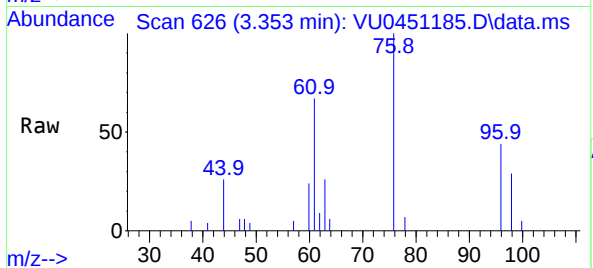


#17

trans-1,2-Dichloroethene
Concen: 1.015 ug/L
RT: 3.353 min Scan# 626
Delta R.T. -0.003 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Instrument :
MSVOA_U
ClientSampleId :

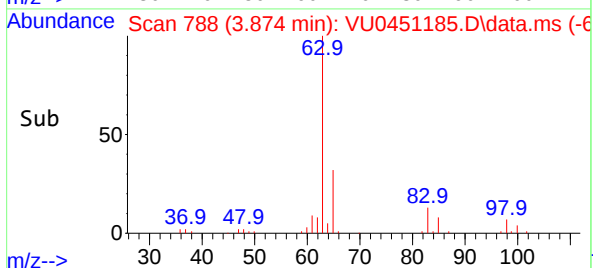
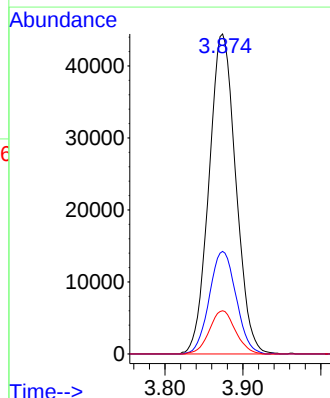
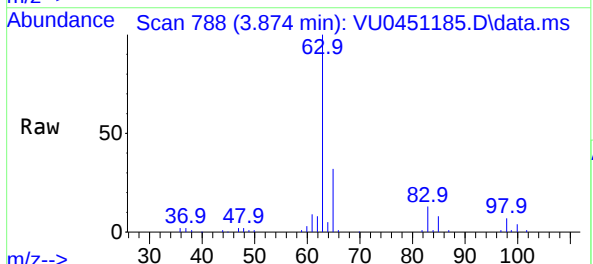
Tgt Ion: 96 Resp: 2386
Ion Ratio Lower Upper
96 100
61 153.7 105.1 195.3
98 66.1 43.0 79.8

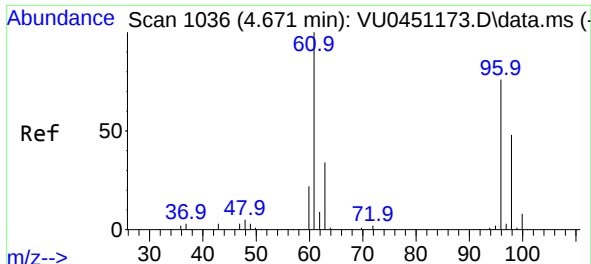


#19

1,1-Dichloroethane
Concen: 21.708 ug/L
RT: 3.874 min Scan# 788
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Tgt Ion: 63 Resp: 106146
Ion Ratio Lower Upper
63 100
65 32.0 22.0 40.8
83 13.5 9.0 16.6



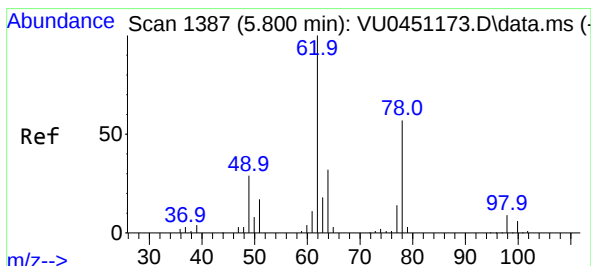
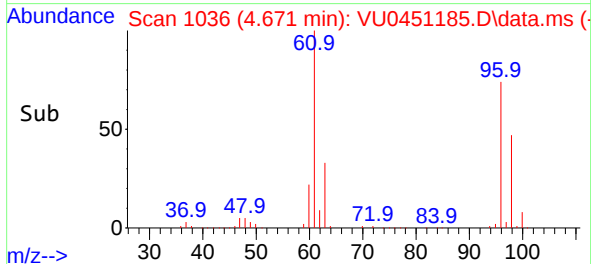
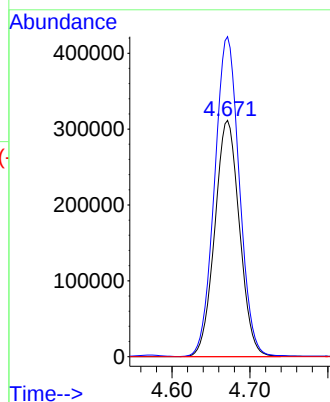
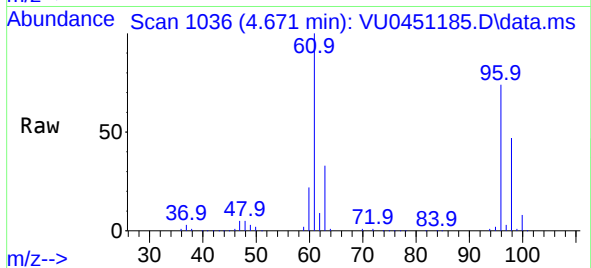


#20
 cis-1,2-Dichloroethene
 Concen: 265.558 ug/L
 RT: 4.671 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: VU0451185.D
 Acq: 06 Oct 2021 15:03

Instrument :
 MSVOA_U
 ClientSampled :

Tgt Ion: 96 Resp: 687794

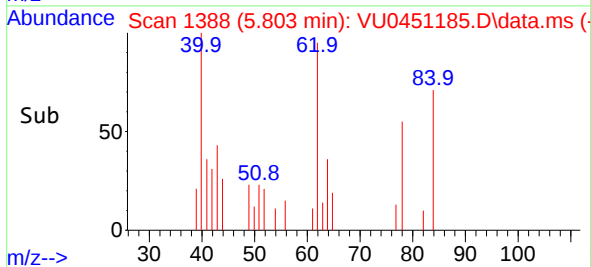
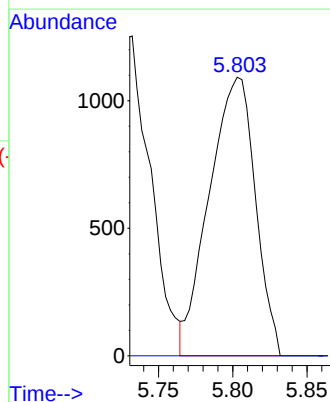
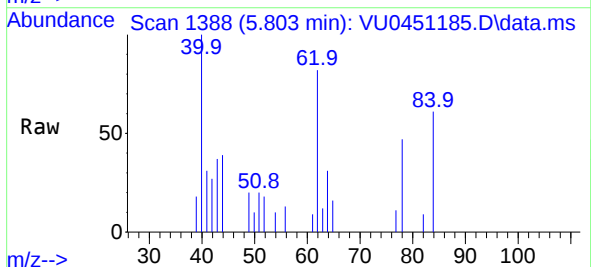
Ion	Ratio	Lower	Upper
96	100		
61	135.5	100.2	186.0
68	0.0	0.0	0.0

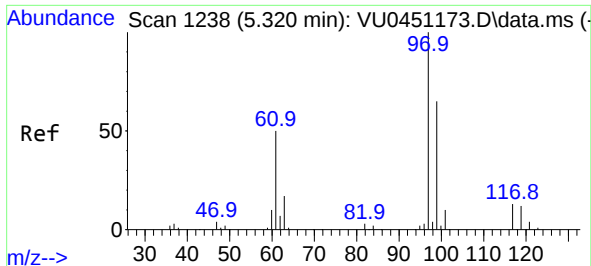


#27
 1,2-Dichloroethane
 Concen: 0.579 ug/L
 RT: 5.803 min Scan# 1388
 Delta R.T. 0.003 min
 Lab File: VU0451185.D
 Acq: 06 Oct 2021 15:03

Tgt Ion: 62 Resp: 2355

Ion	Ratio	Lower	Upper
62	100		
98	0.0	7.1	10.7#

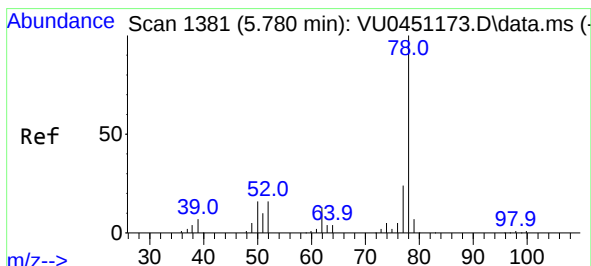
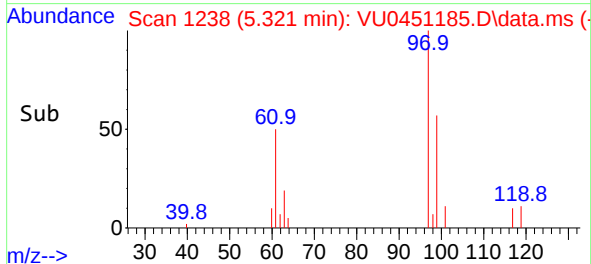
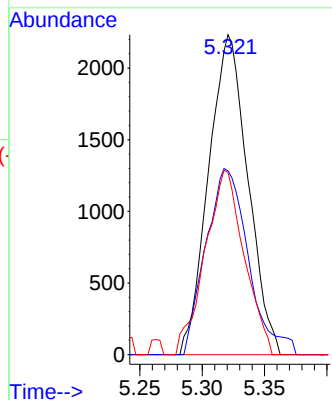
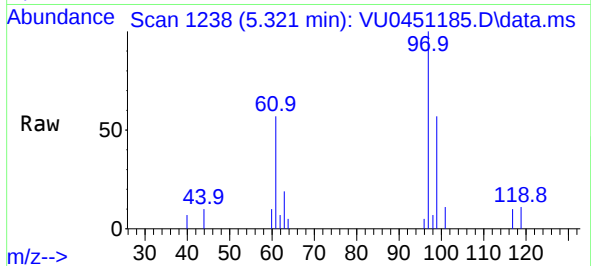




#30
1,1,1-Trichloroethane
Concen: 1.272 ug/L
RT: 5.321 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

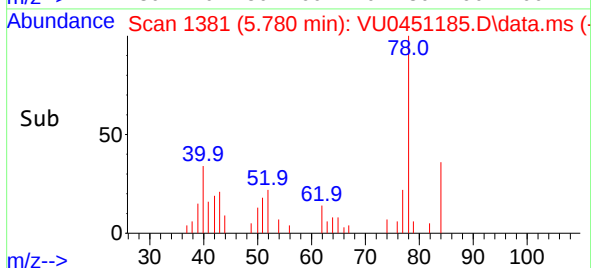
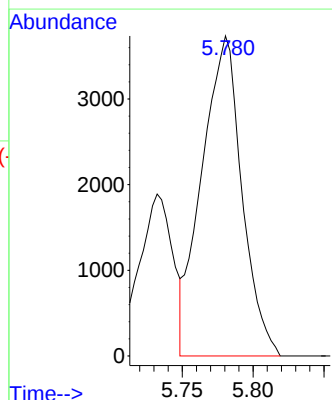
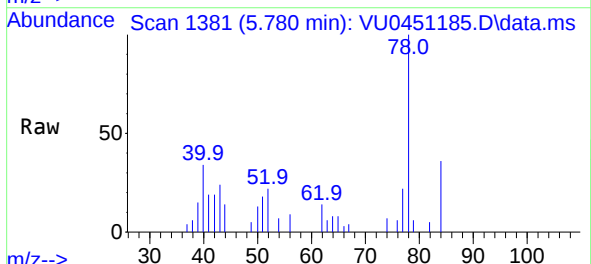
Instrument :
MSVOA_U
ClientSampled :

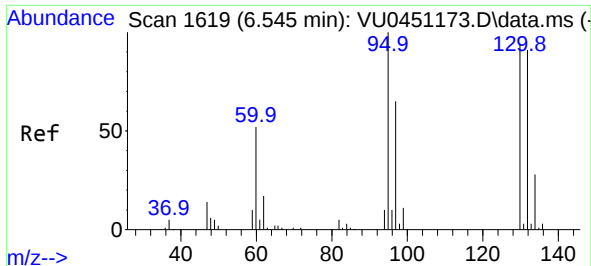
Tgt Ion: 97 Resp: 4893
Ion Ratio Lower Upper
97 100
99 63.1 50.6 75.8
61 57.3 41.3 61.9



#33
Benzene
Concen: 0.713 ug/L
RT: 5.780 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Tgt Ion: 78 Resp: 7349

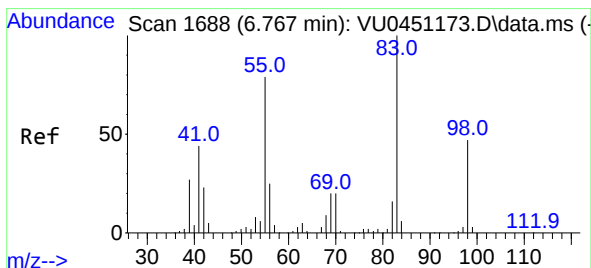
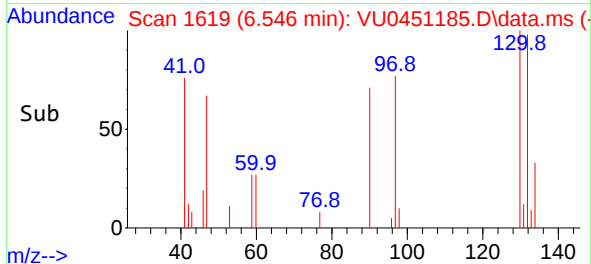
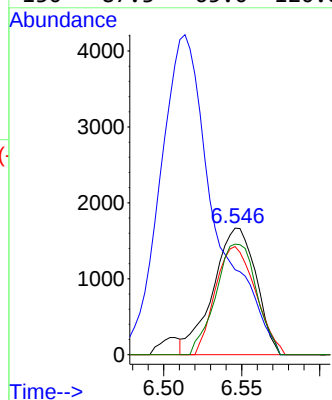
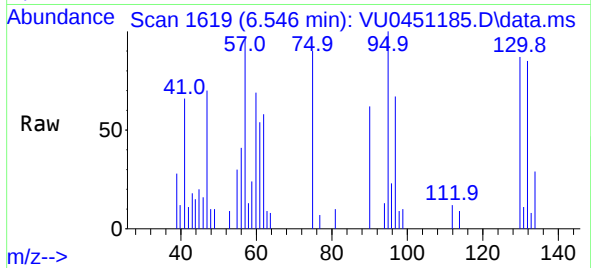




#34
Trichloroethene
Concen: 1.294 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

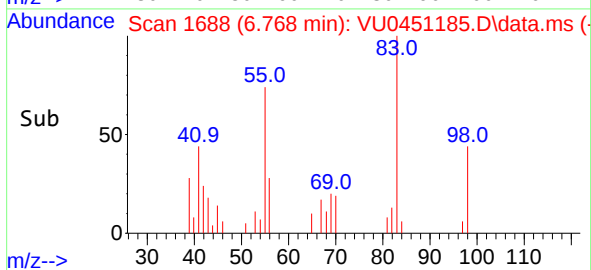
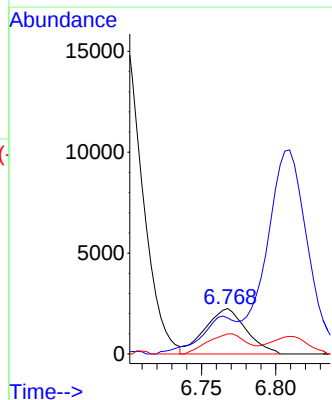
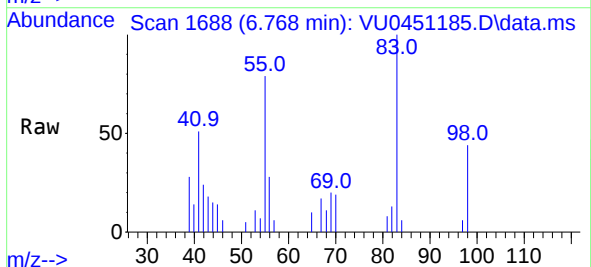
Instrument :
MSVOA_U
ClientSampleId :

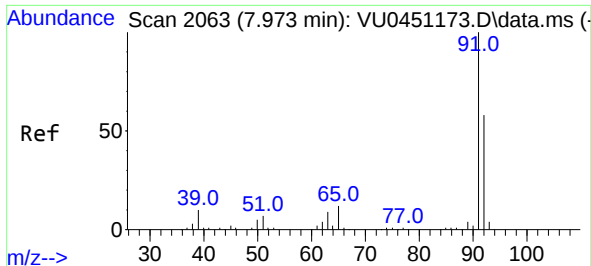
Tgt Ion: 95 Resp: 3203
Ion Ratio Lower Upper
95 100
97 67.1 44.4 82.4
132 85.5 62.9 116.9
130 87.3 65.0 120.8



#35
Methylcyclohexane
Concen: 1.045 ug/L
RT: 6.768 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Tgt Ion: 83 Resp: 4331
Ion Ratio Lower Upper
83 100
55 70.4 65.8 98.6
98 41.5 37.1 55.7

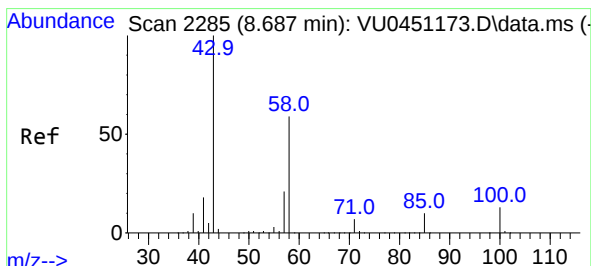
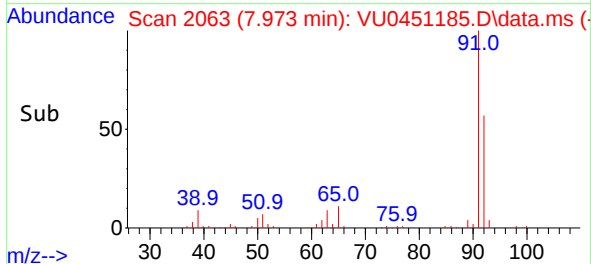
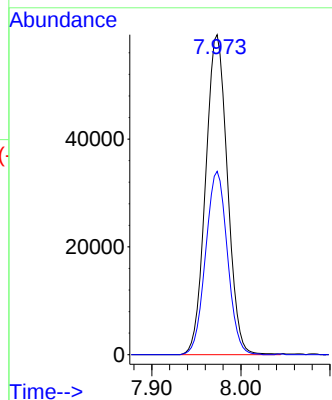
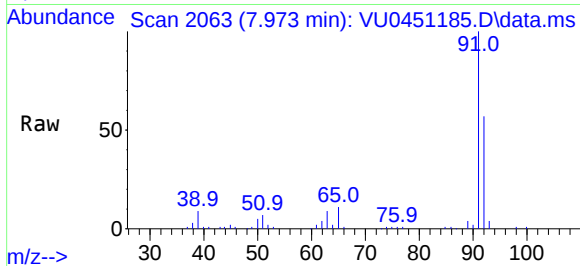




#42
Toluene
Concen: 9.633 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

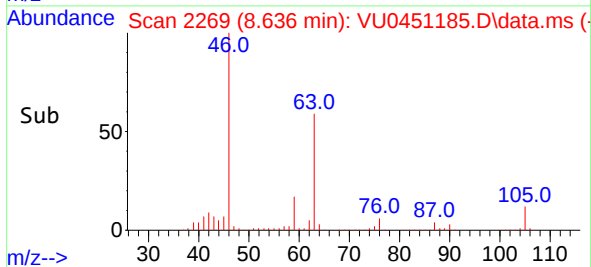
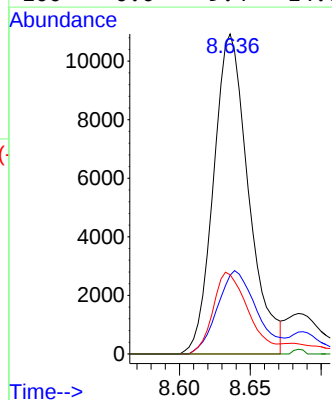
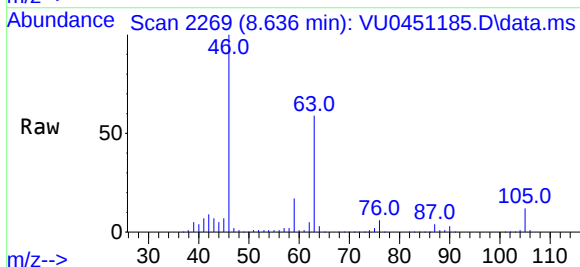
Instrument :
MSVOA_U
ClientSampled :

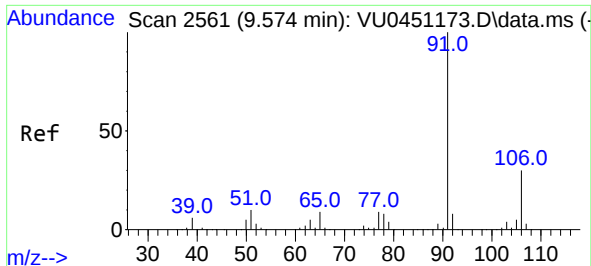
Tgt Ion: 91 Resp: 100891
Ion Ratio Lower Upper
91 100
92 57.3 40.5 75.1



#48
2-Hexanone
Concen: 4.518 ug/L
RT: 8.636 min Scan# 2269
Delta R.T. -0.051 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Tgt Ion: 43 Resp: 18783
Ion Ratio Lower Upper
43 100
58 29.6 44.9 67.3#
57 25.5 15.5 23.3#
100 0.0 9.4 14.0#

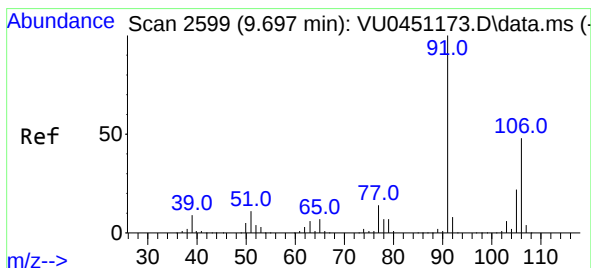
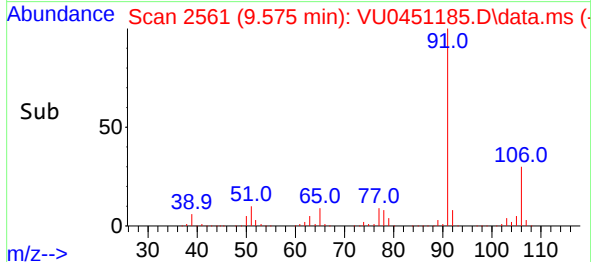
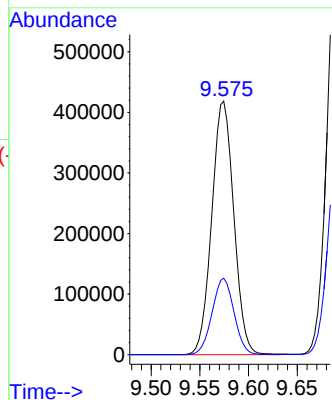
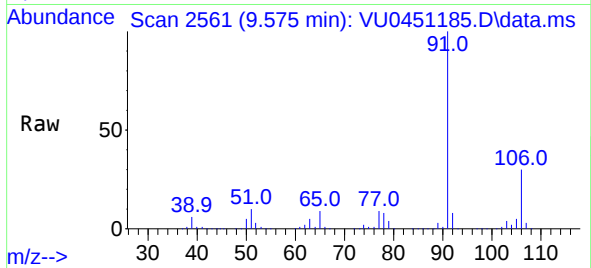




#52
Ethylbenzene
Concen: 59.627 ug/L
RT: 9.575 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

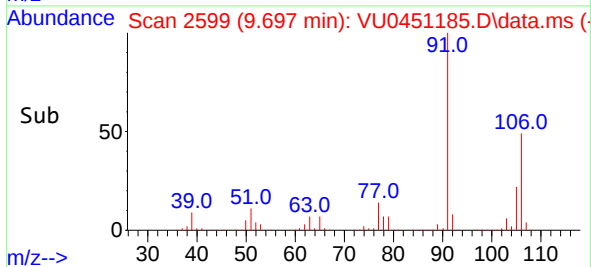
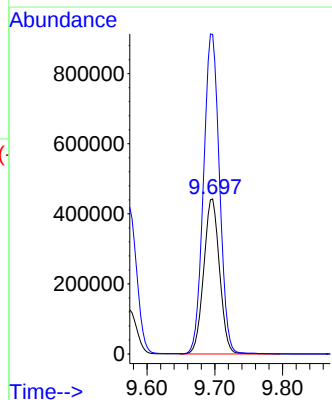
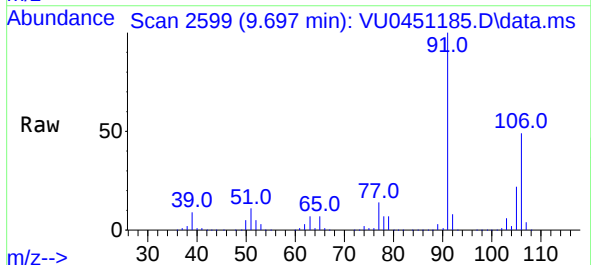
Instrument :
MSVOA_U
ClientSampled :

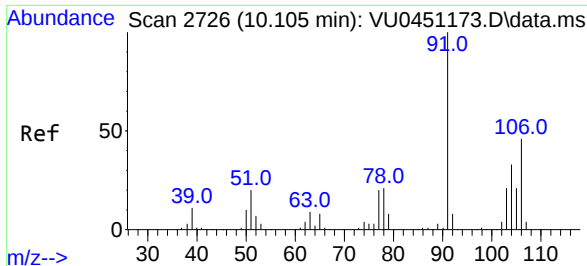
Tgt Ion: 91 Resp: 659696
Ion Ratio Lower Upper
91 100
106 30.2 21.2 39.4



#53
m,p-Xylene
Concen: 170.910 ug/L
RT: 9.697 min Scan# 2599
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Tgt Ion:106 Resp: 716320
Ion Ratio Lower Upper
106 100
91 206.1 146.7 272.4

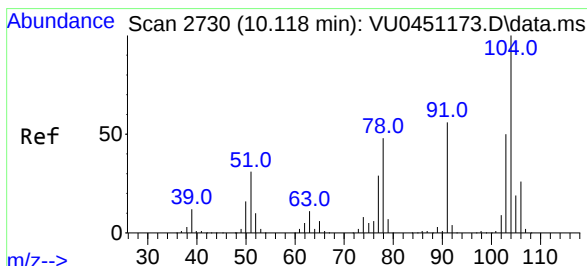
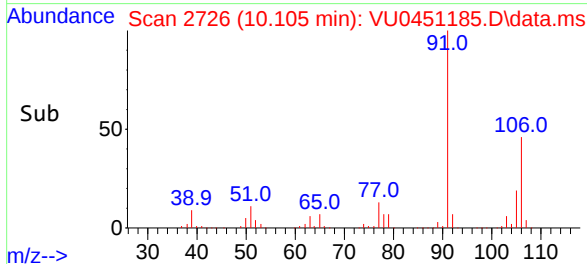
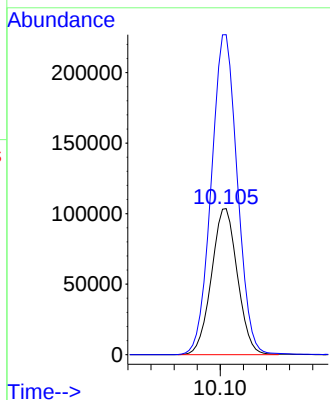
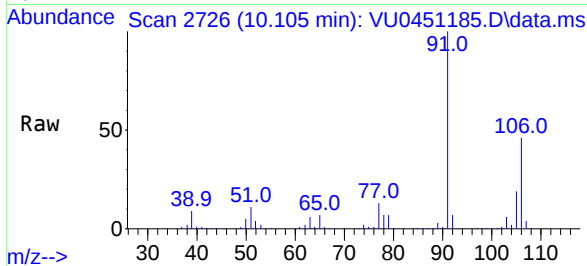




#54
o-xylene
Concen: 39.215 ug/L
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

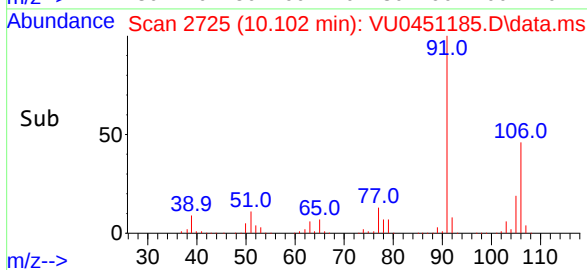
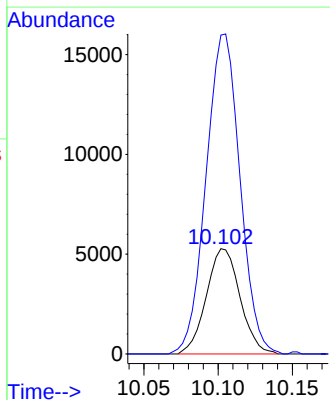
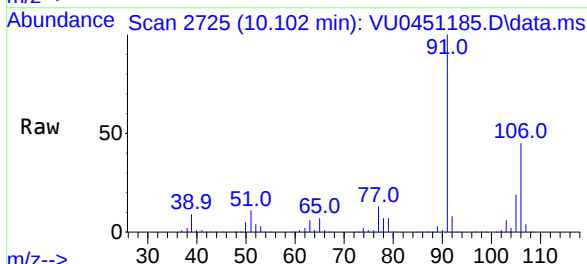
Instrument :
MSVOA_U
ClientSampled :

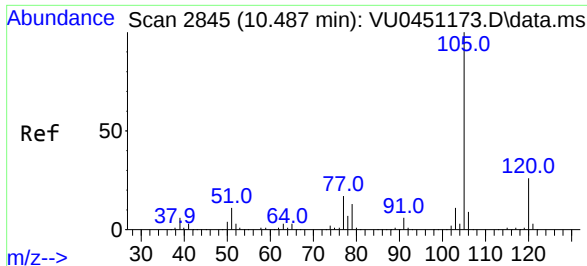
Tgt Ion:106 Resp: 161509
Ion Ratio Lower Upper
106 100
91 219.0 152.9 283.9



#55
Styrene
Concen: 1.175 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.016 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Tgt Ion:104 Resp: 8325
Ion Ratio Lower Upper
104 100
78 303.0 33.3 61.9#

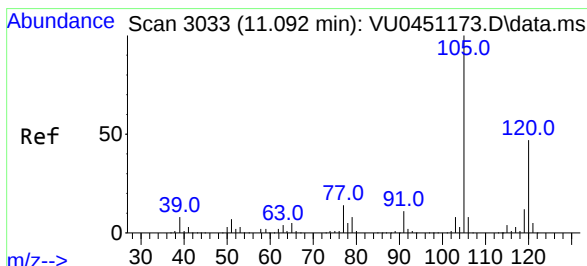
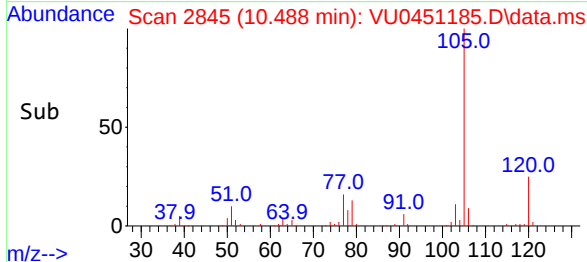
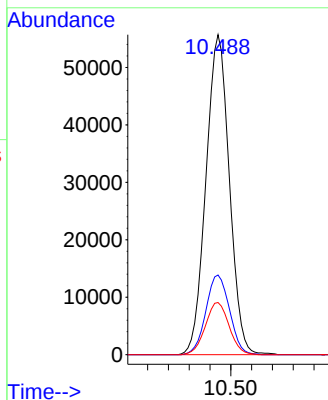
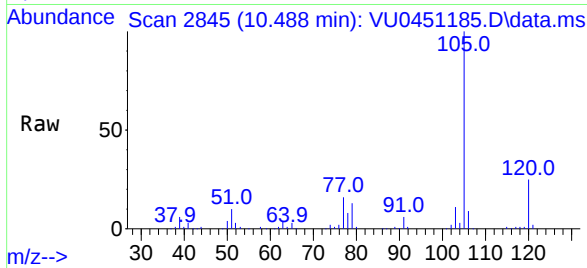




#61
Isopropylbenzene
Concen: 9.277 ug/L
RT: 10.488 min Scan# 2845
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

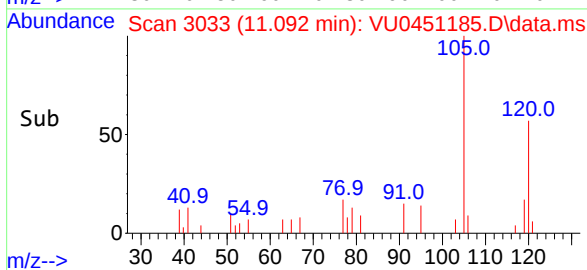
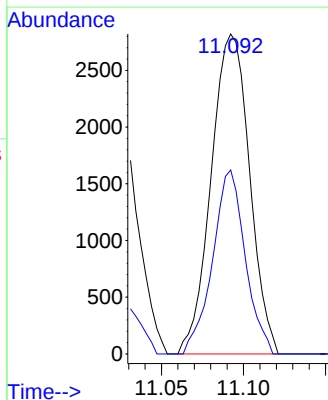
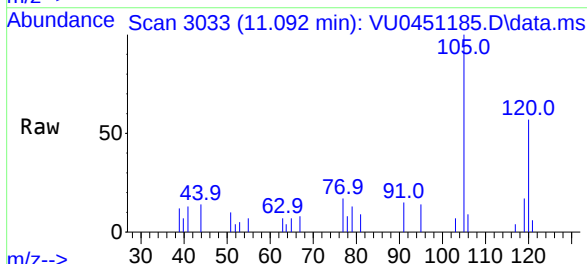
Instrument :
MSVOA_U
ClientSampled :

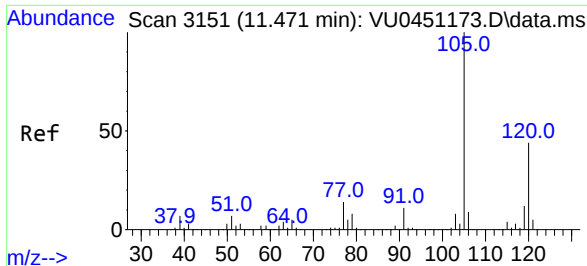
Tgt Ion:105 Resp: 86978
Ion Ratio Lower Upper
105 100
120 25.2 20.5 30.7
77 16.6 13.5 20.3



#62
1,3,5-Trimethylbenzene
Concen: 0.587 ug/L
RT: 11.092 min Scan# 3033
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Tgt Ion:105 Resp: 4593
Ion Ratio Lower Upper
105 100
120 48.8 38.8 58.2

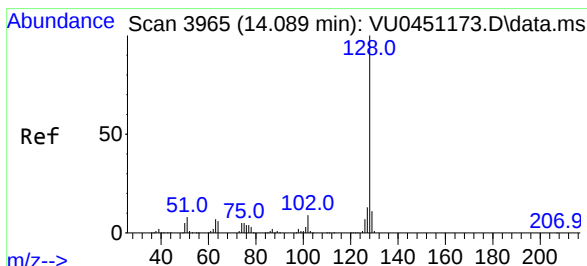
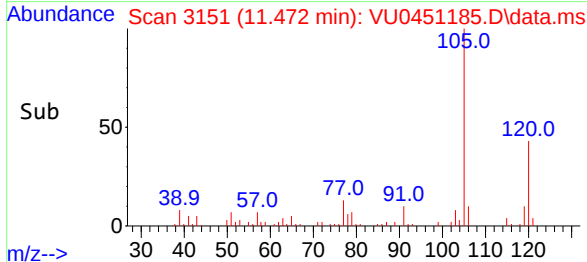
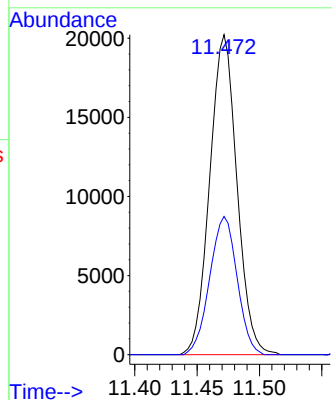
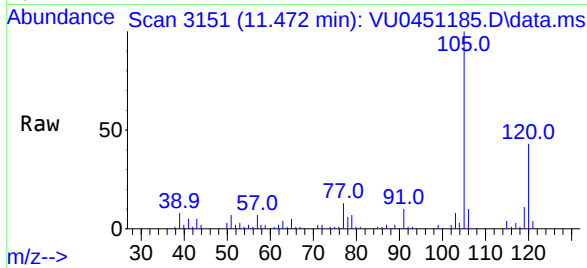




#63
1,2,4-Trimethylbenzene
Concen: 3.833 ug/L
RT: 11.472 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion:105 Resp: 30731
Ion Ratio Lower Upper
105 100
120 43.5 35.7 53.5



#71
Naphthalene
Concen: 55.239 ug/L
RT: 14.089 min Scan# 3965
Delta R.T. 0.000 min
Lab File: VU0451185.D
Acq: 06 Oct 2021 15:03

Tgt Ion:128 Resp: 478314
Ion Ratio Lower Upper
128 100
127 13.2 10.4 15.6
129 11.1 8.8 13.2

