

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100621\
 Data File : VU0451191.D
 Acq On : 06 Oct 2021 17:25
 Operator : SY/MD
 Sample : M3973-22ME
 Misc : 5.02g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 07 03:03:18 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	6.250	114	61518	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.426	117	61079	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	33622	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	138382	205.484	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	410.960%#
7) Chloroethane-d5	1.871	69	45996	86.190	ug/L	-0.04
Spiked Amount	50.000	Range	70 - 130	Recovery	=	172.380%#
11) 1,1-Dichloroethene-d2	2.520	63	199580	176.472	ug/L	-0.05
Spiked Amount	50.000	Range	60 - 125	Recovery	=	352.940%#
21) 2-Butanone-d5	4.649	46	251904	473.143	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	473.140%#
24) Chloroform-d	5.067	84	251886	236.817	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	473.640%#
26) 1,2-Dichloroethane-d4	5.703	65	181491	251.909	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	503.820%#
32) Benzene-d6	5.722	84	535634	252.727	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	505.460%#
36) 1,2-Dichloropropane-d6	6.693	67	176235	255.016	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	510.040%#
41) Toluene-d8	7.902	98	482934	264.039	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	528.080%#
43) trans-1,3-Dichloroprop...	8.185	79	81152	263.988	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	527.980%#
47) 2-Hexanone-d5	8.652	63	195534	510.570	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	510.570%#
56) 1,1,2,2-Tetrachloroeth...	10.764	84	274696	255.264	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	510.520%#
66) 1,2-Dichlorobenzene-d4	12.198	152	181664	248.274	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	496.540%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.517	50	1940	2.642	ug/L	97
5) Vinyl chloride	1.600	62	578	0.804	ug/L #	1
6) Bromomethane	1.822	94	358	1.038	ug/L	90
8) Chloroethane	1.993	64	1115	2.470	ug/L #	43
9) Trichlorofluoromethane	2.520	101	1030	1.251	ug/L #	35
10) 1,1,2-Trichloro-1,2,2-...	2.520	101	1629	3.135	ug/L #	22
12) 1,1-Dichloroethene	2.526	96	1388	2.914	ug/L #	1
14) Carbon disulfide	2.752	76	464	0.304	ug/L #	75
15) Methyl Acetate	2.967	43	1738	2.290	ug/L #	83
16) Methylene chloride	3.028	84	2699	4.472	ug/L	98
20) cis-1,2-Dichloroethene	4.652	96	304	0.550	ug/L	83
25) Chloroform	5.092	83	3673	3.539	ug/L	92
29) Cyclohexane	5.366	56	1927	2.099	ug/L #	77
33) Benzene	5.722	78	4152	1.833	ug/L	100
35) Methylcyclohexane	6.758	83	22821	25.051	ug/L	87
37) 1,2-Dichloropropane	6.693	63	19496	31.608	ug/L #	90
39) cis-1,3-Dichloropropene	7.571	75	4887	5.537	ug/L #	51
42) Toluene	7.973	91	7603	3.303	ug/L	96
44) trans-1,3-Dichloropropene	8.189	75	3503	4.174	ug/L #	77

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

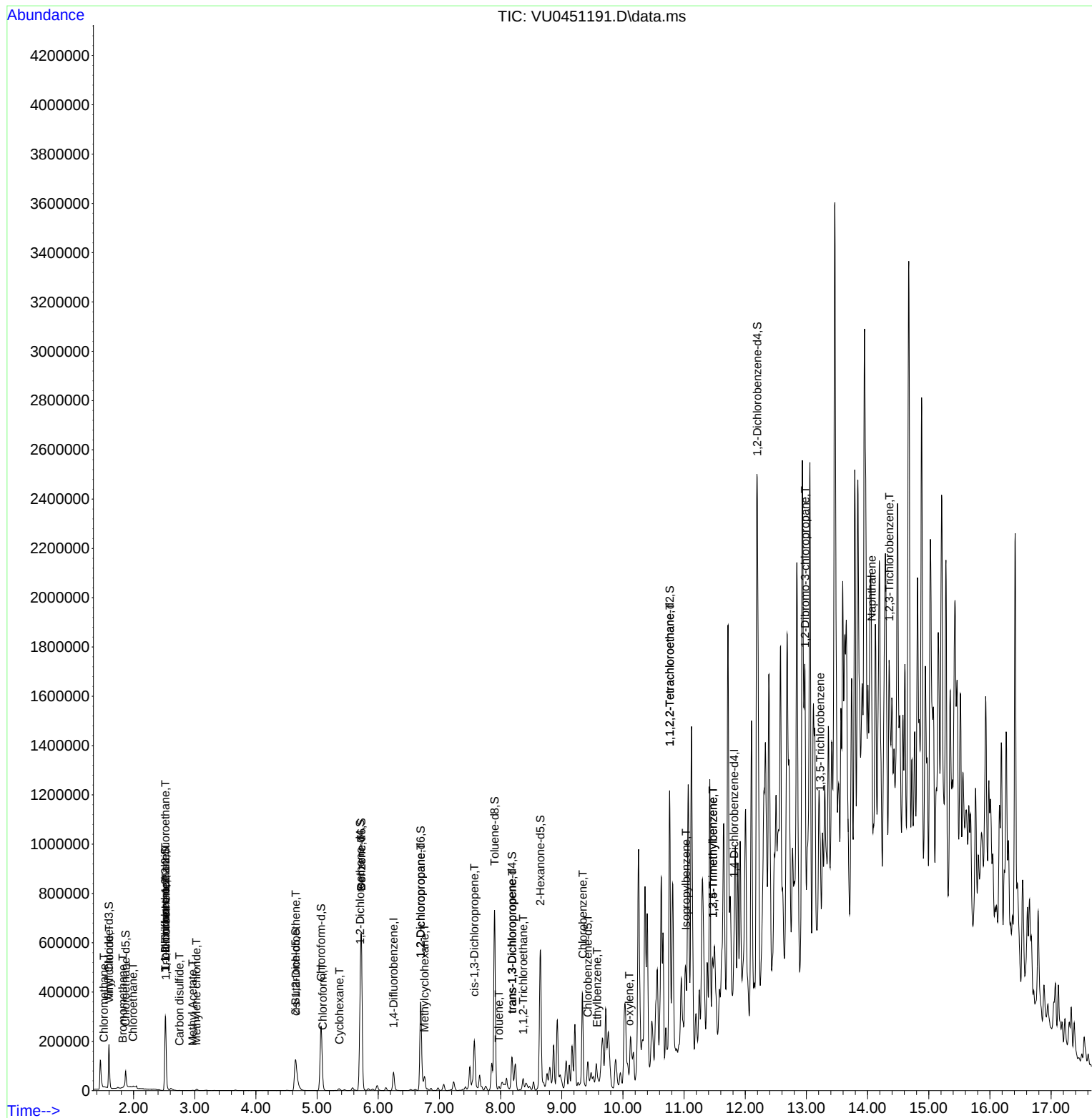
45) 1,1,2-Trichloroethane	8.369	97	16063	28.737	ug/L #	18
51) Chlorobenzene	9.343	112	663	0.467	ug/L #	7
52) Ethylbenzene	9.578	91	2271	0.934	ug/L	93
54) o-xylene	10.105	106	540	0.597	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.764	83	15517	14.498	ug/L #	67
61) Isopropylbenzene	11.031	105	52406	21.298	ug/L	95
62) 1,3,5-Trimethylbenzene	11.471	105	2783	1.354	ug/L	89
63) 1,2,4-Trimethylbenzene	11.471	105	2783	1.323	ug/L	94
68) 1,2-Dibromo-3-chloropr...	12.979	75	5201	19.462	ug/L #	11
69) 1,3,5-Trichlorobenzene	13.224	180	492	0.623	ug/L #	43
71) Naphthalene	14.066	128	22566	9.930	ug/L #	1
72) 1,2,3-Trichlorobenzene	14.356	180	7063	10.527	ug/L #	1

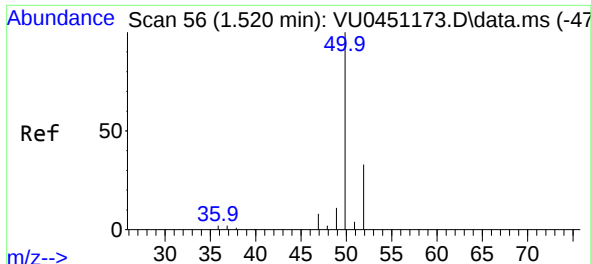
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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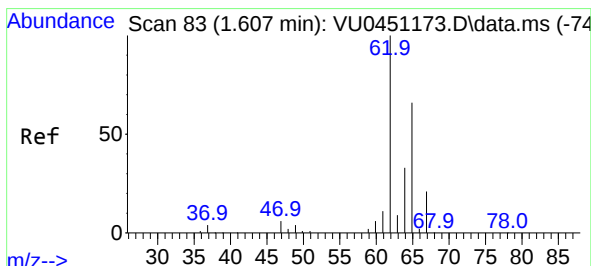
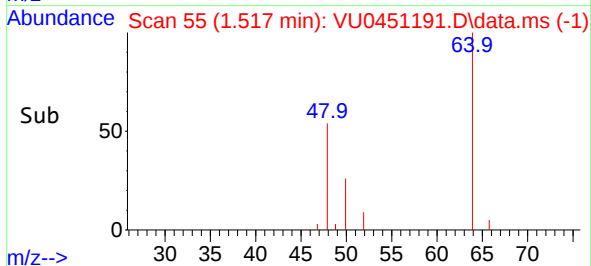
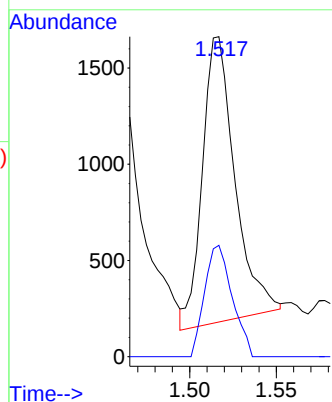
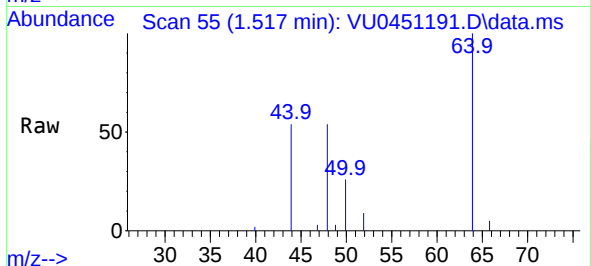




#3
Chloromethane
Concen: 2.642 ug/L
RT: 1.517 min Scan# 55
Delta R.T. -0.003 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

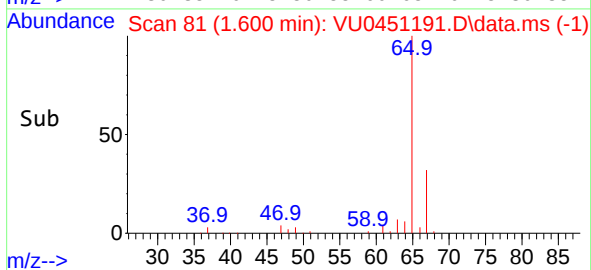
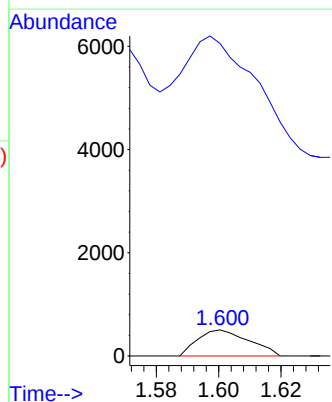
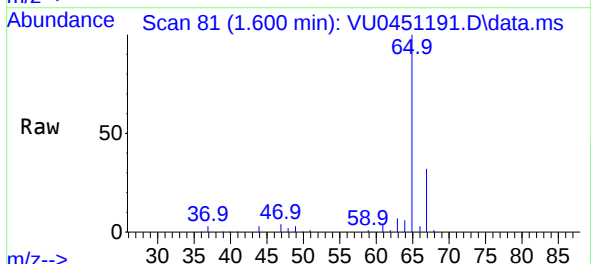
Instrument :
MSVOA_U
ClientSampleId :

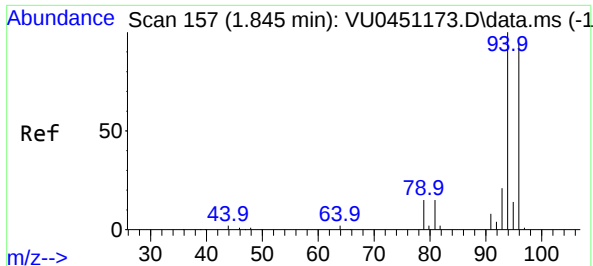
Tgt Ion: 50 Resp: 1940
Ion Ratio Lower Upper
50 100
52 34.8 23.0 42.8



#5
Vinyl chloride
Concen: 0.804 ug/L
RT: 1.600 min Scan# 81
Delta R.T. -0.006 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Tgt Ion: 62 Resp: 578
Ion Ratio Lower Upper
62 100
64 1194.1 23.4 43.6#

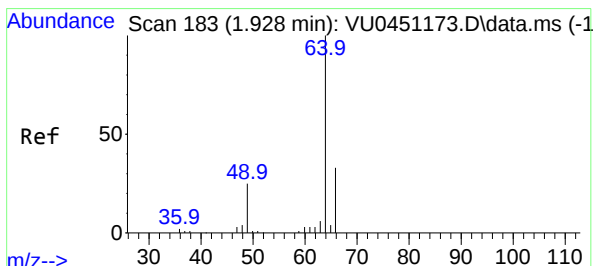
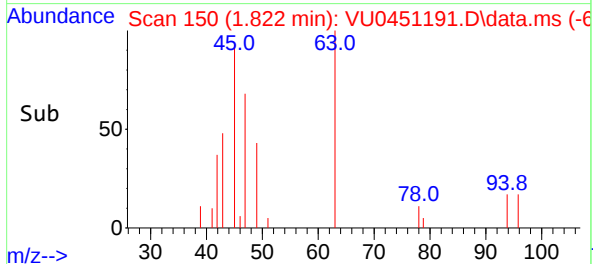
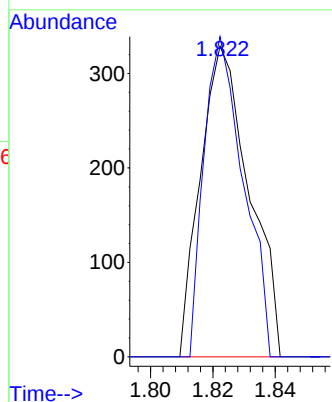
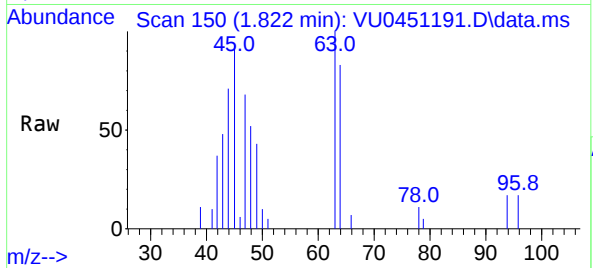




#6
Bromomethane
Concen: 1.038 ug/L
RT: 1.822 min Scan# 150
Delta R.T. -0.022 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

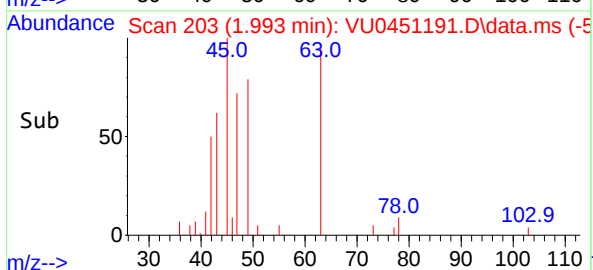
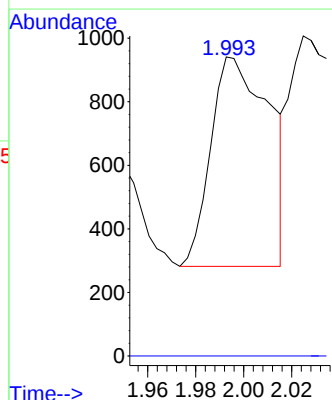
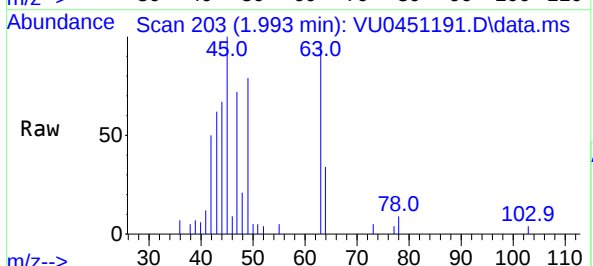
Instrument :
MSVOA_U
ClientSampleId :

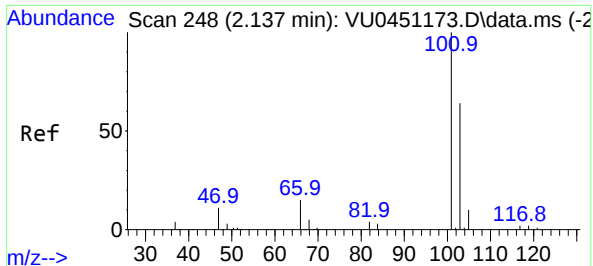
Tgt Ion: 94 Resp: 358
Ion Ratio Lower Upper
94 100
96 103.0 65.7 121.9



#8
Chloroethane
Concen: 2.470 ug/L
RT: 1.993 min Scan# 203
Delta R.T. 0.064 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Tgt Ion: 64 Resp: 1115
Ion Ratio Lower Upper
64 100
66 0.0 22.3 41.3#

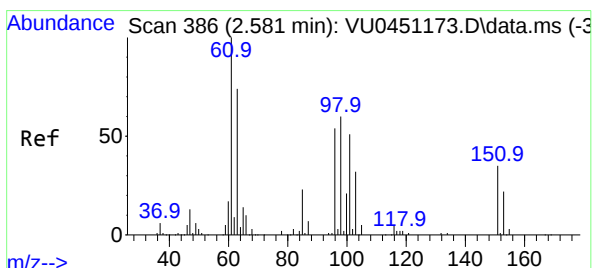
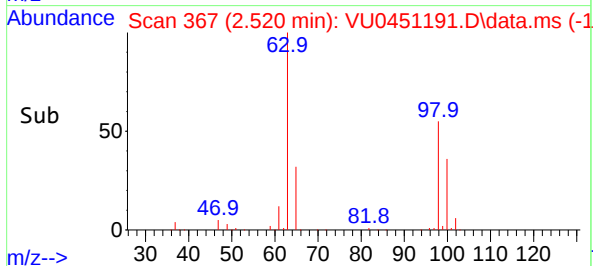
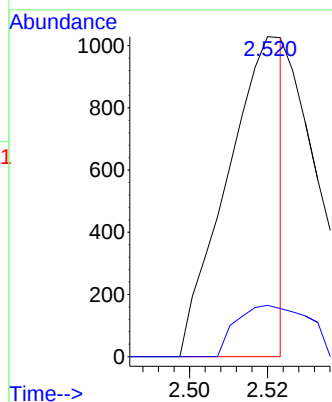
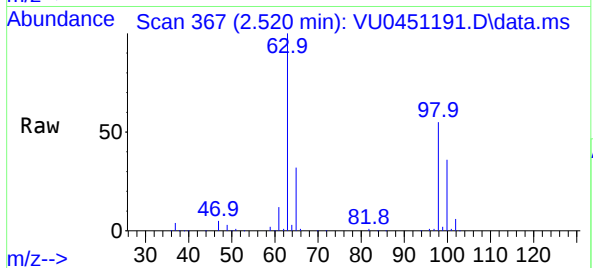




#9
Trichlorofluoromethane
Concen: 1.251 ug/L
RT: 2.520 min Scan# 367
Delta R.T. 0.383 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

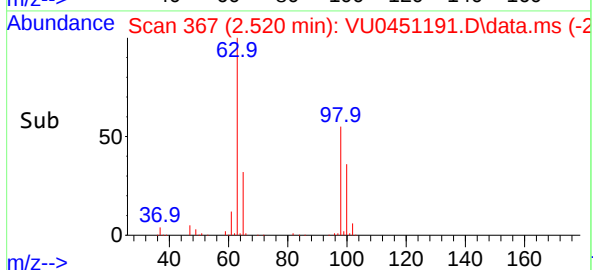
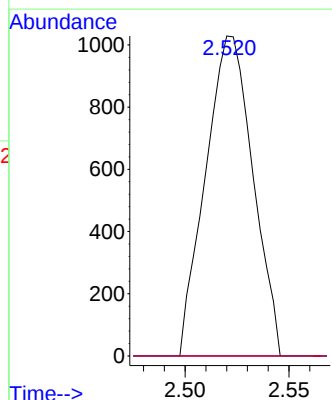
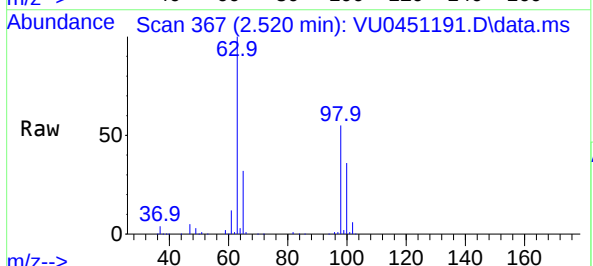
Instrument :
MSVOA_U
ClientSampleId :

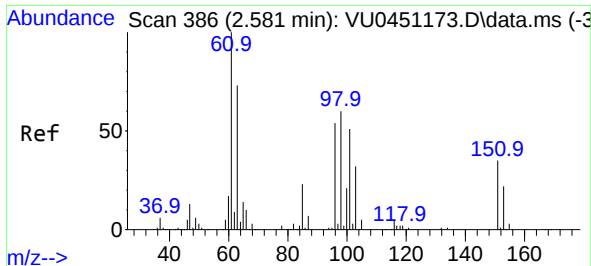
Tgt Ion:101 Resp: 1030
Ion Ratio Lower Upper
101 100
103 13.3 50.9 76.3#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 3.135 ug/L
RT: 2.520 min Scan# 367
Delta R.T. -0.061 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Tgt Ion:101 Resp: 1629
Ion Ratio Lower Upper
101 100
85 0.0 36.4 54.6#
151 0.0 54.4 81.6#





#12

1,1-Dichloroethene

Concen: 2.914 ug/L

RT: 2.526 min Scan# 369

Delta R.T. -0.055 min

Lab File: VU0451191.D

Acq: 06 Oct 2021 17:25

Tgt Ion: 96 Resp: 1388

Ion Ratio Lower Upper

96 100

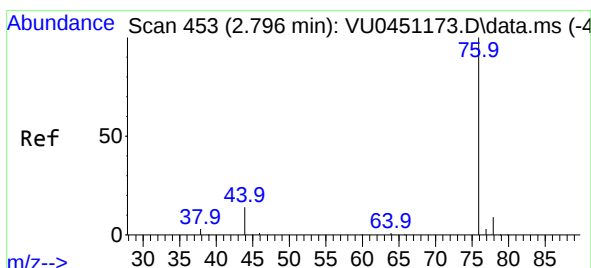
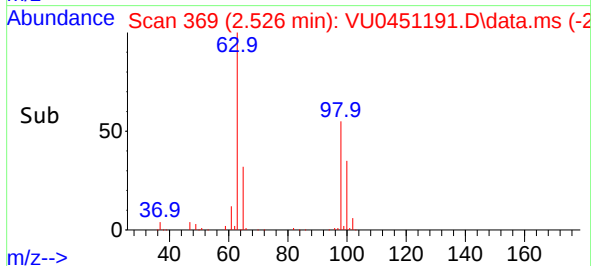
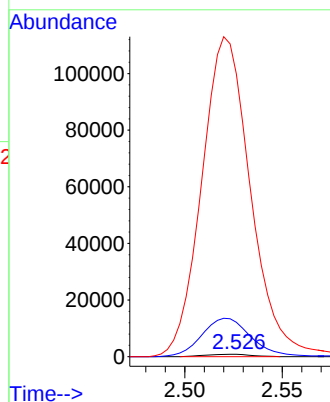
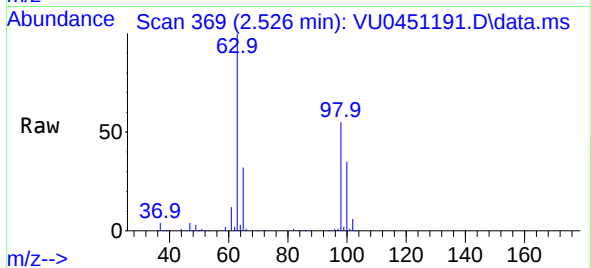
61 1432.2 131.3 243.9#

63 11786.5 102.5 190.3#

Instrument :

MSVOA_U

ClientSampled :



#14

Carbon disulfide

Concen: 0.304 ug/L

RT: 2.752 min Scan# 439

Delta R.T. -0.045 min

Lab File: VU0451191.D

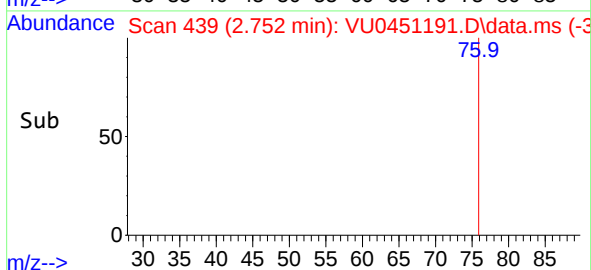
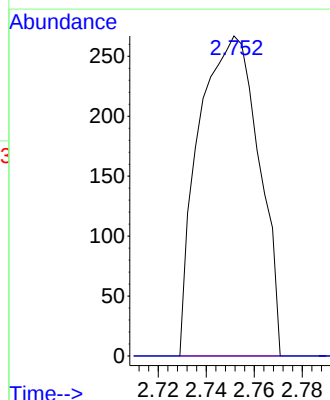
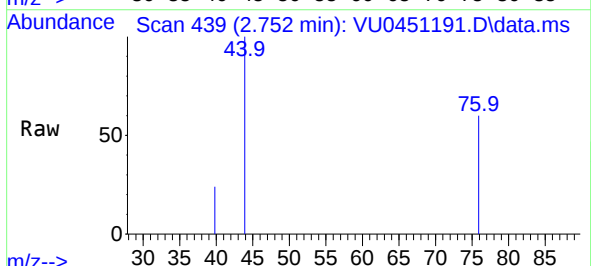
Acq: 06 Oct 2021 17:25

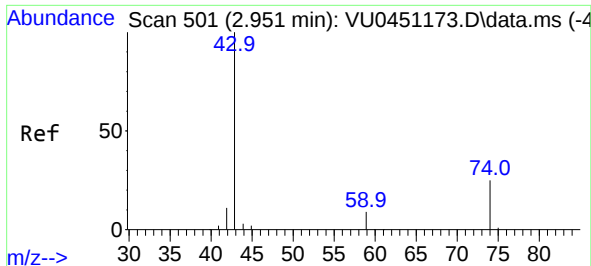
Tgt Ion: 76 Resp: 464

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#





#15

Methyl Acetate

Concen: 2.290 ug/L

RT: 2.967 min Scan# 506

Delta R.T. 0.016 min

Lab File: VU0451191.D

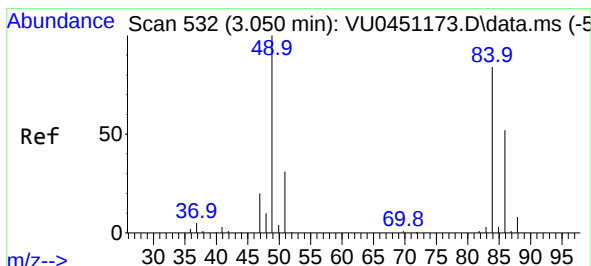
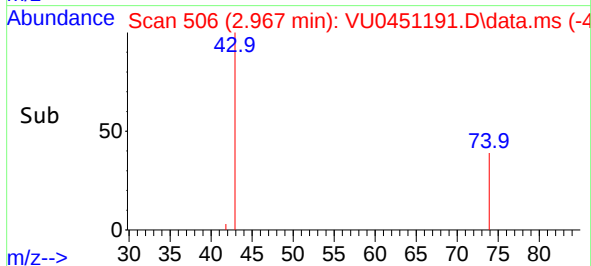
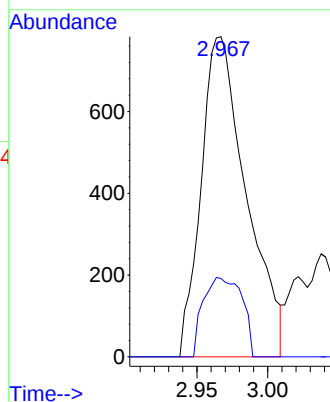
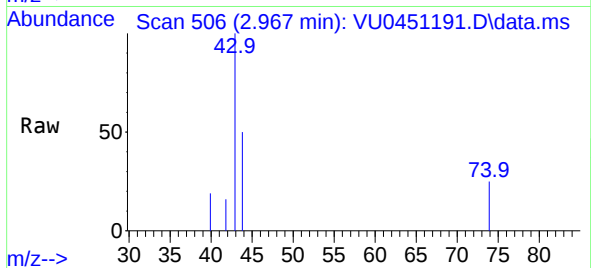
Acq: 06 Oct 2021 17:25

Tgt Ion: 43 Resp: 1738

Ion Ratio Lower Upper

43 100

74 14.6 18.4 27.6#



#16

Methylene chloride

Concen: 4.472 ug/L

RT: 3.028 min Scan# 525

Delta R.T. -0.022 min

Lab File: VU0451191.D

Acq: 06 Oct 2021 17:25

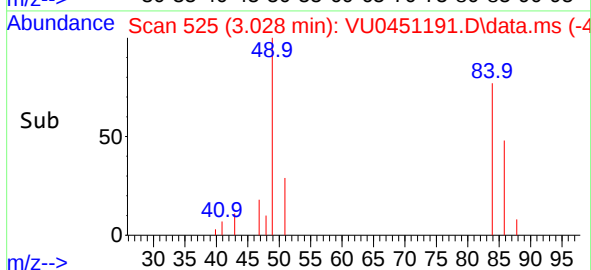
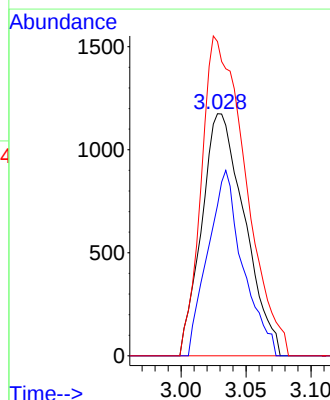
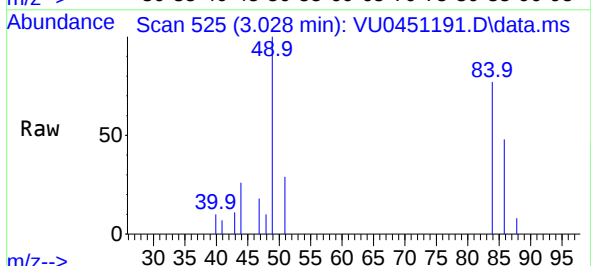
Tgt Ion: 84 Resp: 2699

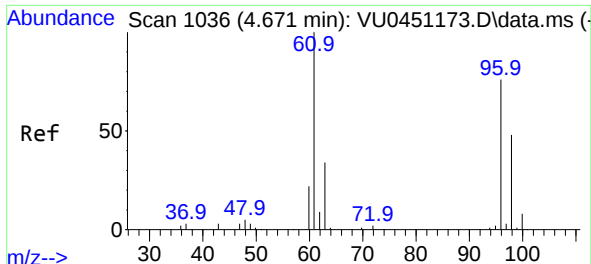
Ion Ratio Lower Upper

84 100

86 62.1 44.7 83.1

49 129.8 92.9 172.5

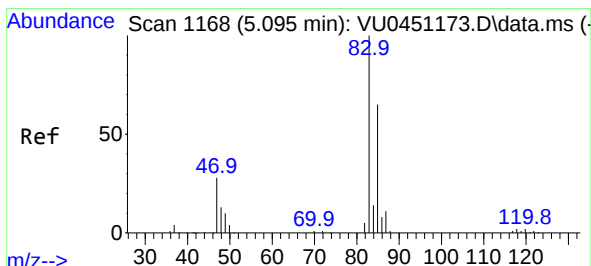
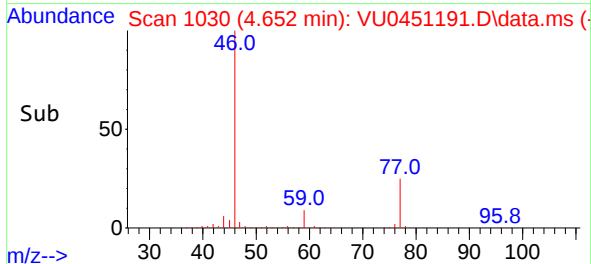
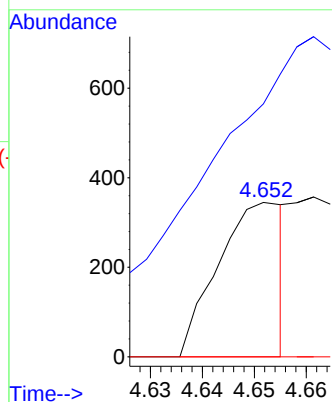
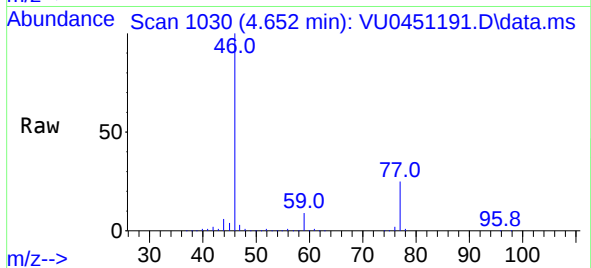




#20
cis-1,2-Dichloroethene
Concen: 0.550 ug/L
RT: 4.652 min Scan# 1030
Delta R.T. -0.019 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

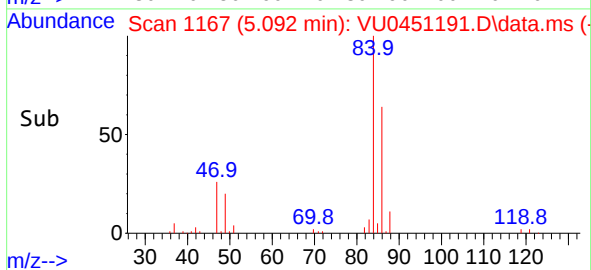
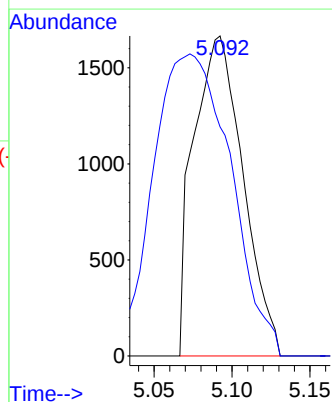
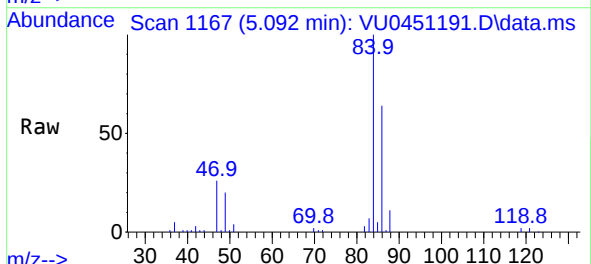
Instrument :
MSVOA_U
ClientSampleId :

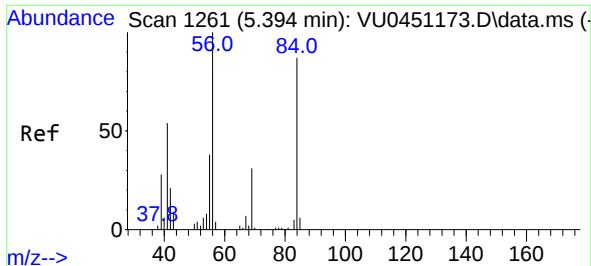
Tgt Ion: 96 Resp: 304
Ion Ratio Lower Upper
96 100
61 163.8 100.2 186.0
68 0.0 0.0 0.0



#25
Chloroform
Concen: 3.539 ug/L
RT: 5.092 min Scan# 1167
Delta R.T. -0.003 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

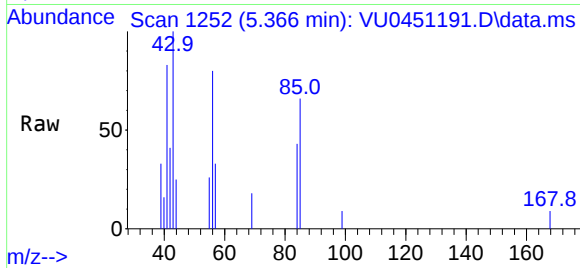
Tgt Ion: 83 Resp: 3673
Ion Ratio Lower Upper
83 100
85 71.6 45.6 84.6



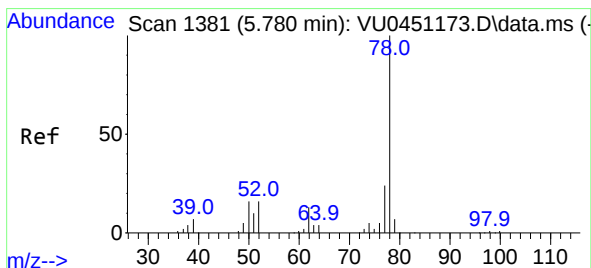
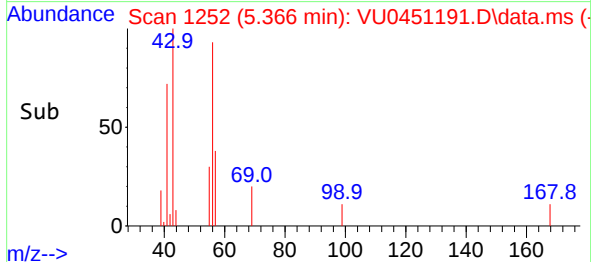
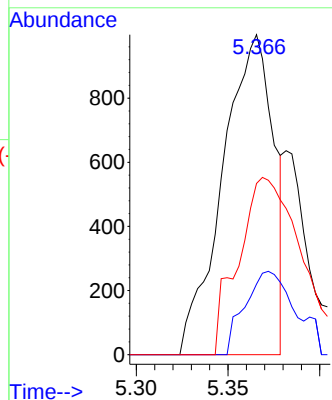


#29
Cyclohexane
Concen: 2.099 ug/L
RT: 5.366 min Scan# 1252
Delta R.T. -0.029 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Instrument :
MSVOA_U
ClientSampled :

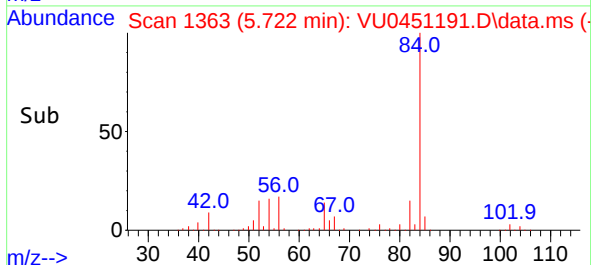
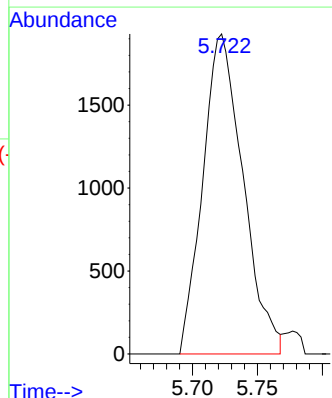
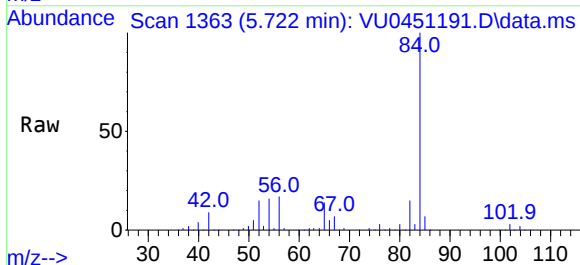


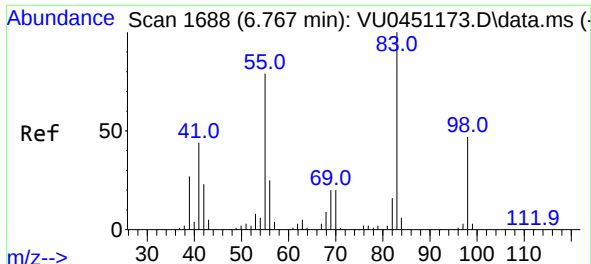
Tgt Ion: 56 Resp: 1927
Ion Ratio Lower Upper
56 100
69 23.5 23.8 35.8#
84 59.6 66.8 100.2#



#33
Benzene
Concen: 1.833 ug/L
RT: 5.722 min Scan# 1363
Delta R.T. -0.058 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Tgt Ion: 78 Resp: 4152

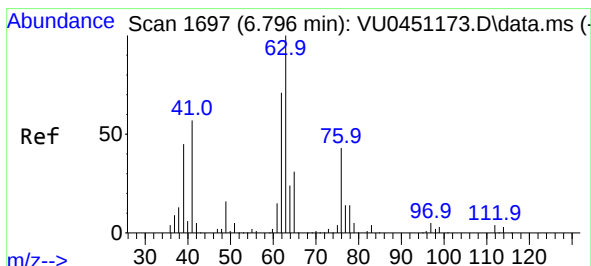
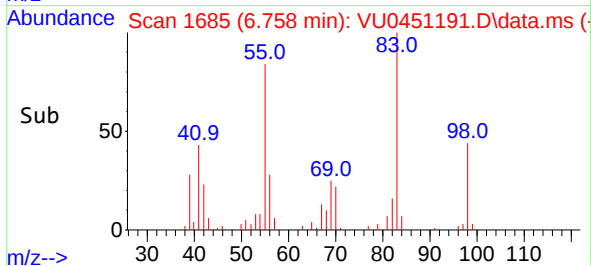
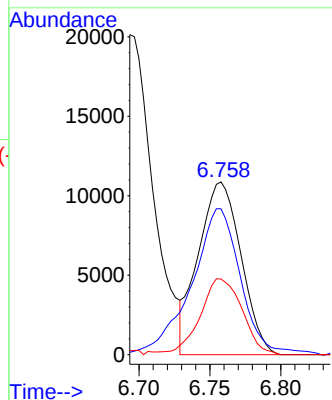
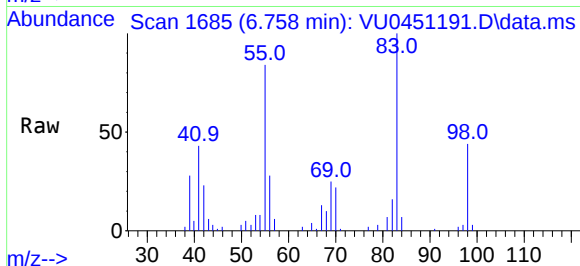




#35
Methylcyclohexane
Concen: 25.051 ug/L
RT: 6.758 min Scan# 1685
Delta R.T. -0.010 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

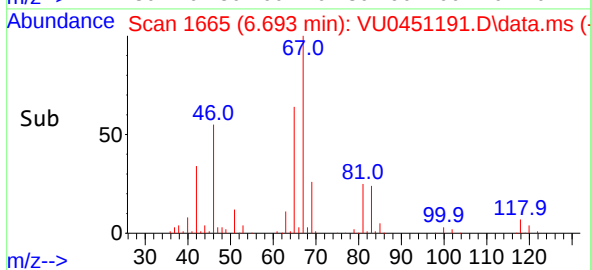
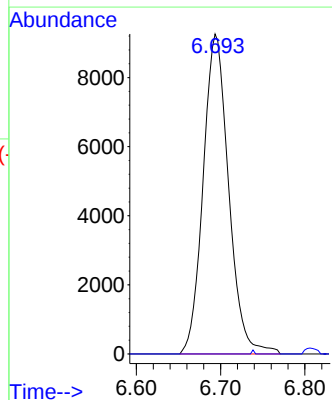
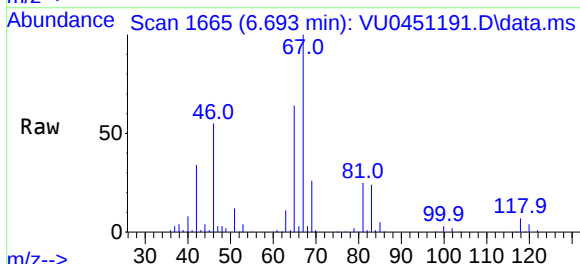
Instrument :
MSVOA_U
ClientSampleId :

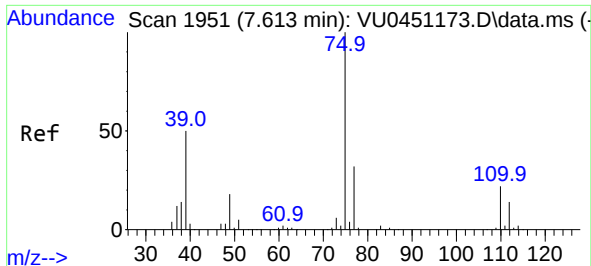
Tgt Ion:	83	Resp:	22821
Ion	Ratio	Lower	Upper
83	100		
55	97.4	65.8	98.6
98	42.8	37.1	55.7



#37
1,2-Dichloropropane
Concen: 31.608 ug/L
RT: 6.693 min Scan# 1665
Delta R.T. -0.103 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Tgt Ion:	63	Resp:	19496
Ion	Ratio	Lower	Upper
63	100		
112	0.8	3.2	4.8#

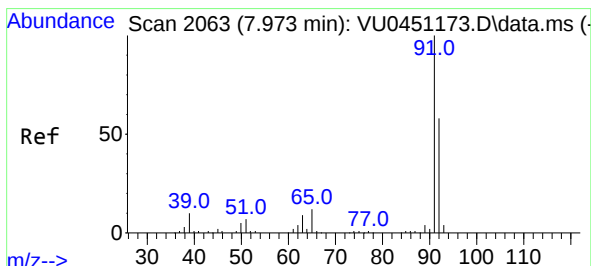
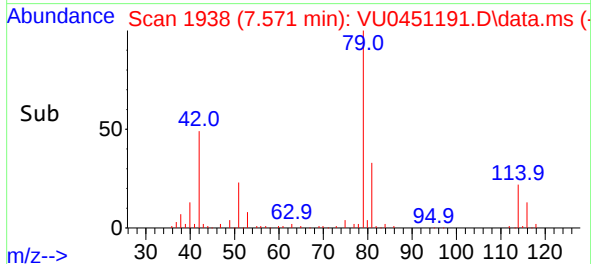
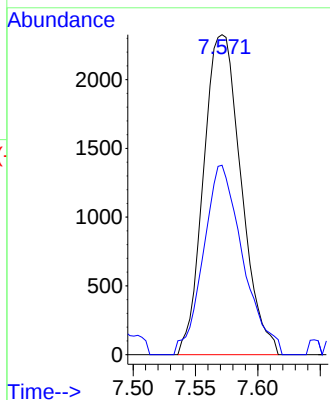
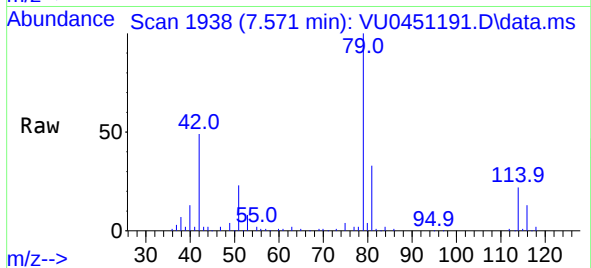




#39
 cis-1,3-Dichloropropene
 Concen: 5.537 ug/L
 RT: 7.571 min Scan# 1938
 Delta R.T. -0.042 min
 Lab File: VU0451191.D
 Acq: 06 Oct 2021 17:25

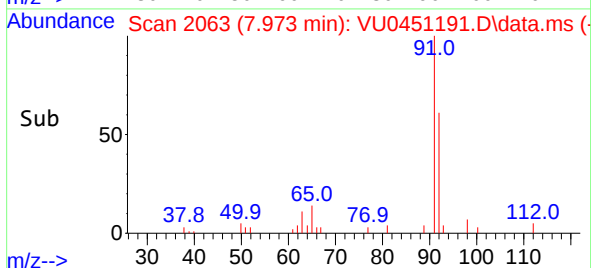
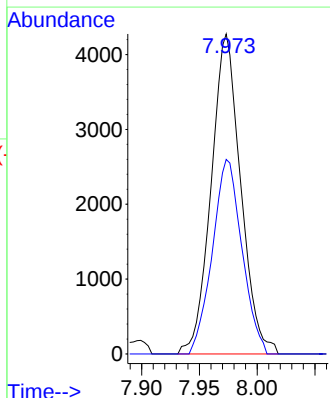
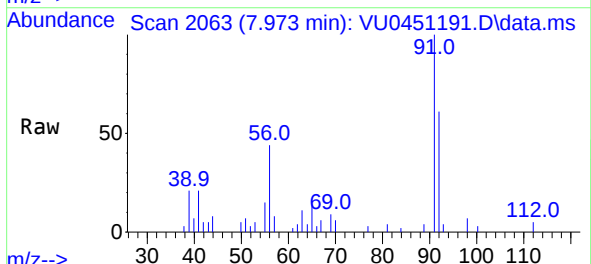
Instrument :
 MSVOA_U
 ClientSampled :

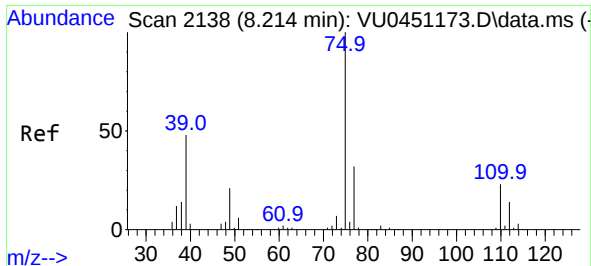
Tgt Ion: 75 Resp: 4887
 Ion Ratio Lower Upper
 75 100
 77 59.2 22.4 41.6#



#42
 Toluene
 Concen: 3.303 ug/L
 RT: 7.973 min Scan# 2063
 Delta R.T. 0.000 min
 Lab File: VU0451191.D
 Acq: 06 Oct 2021 17:25

Tgt Ion: 91 Resp: 7603
 Ion Ratio Lower Upper
 91 100
 92 60.8 40.5 75.1

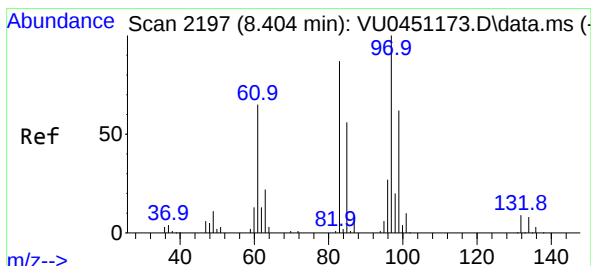
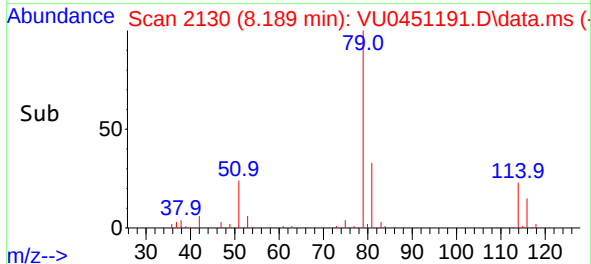
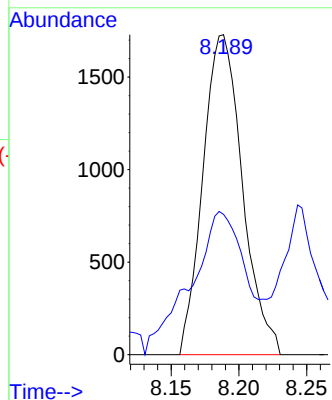
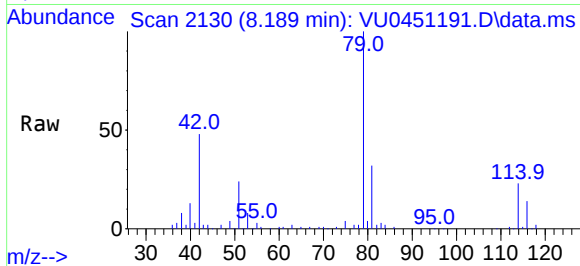




#44
trans-1,3-Dichloropropene
Concen: 4.174 ug/L
RT: 8.189 min Scan# 2130
Delta R.T. -0.026 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

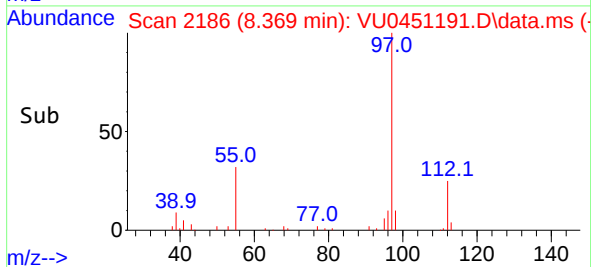
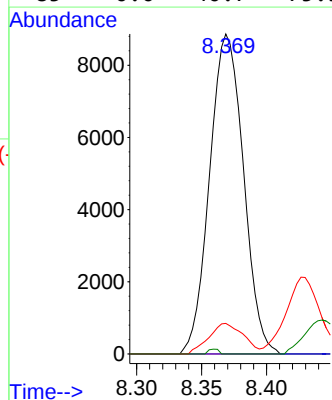
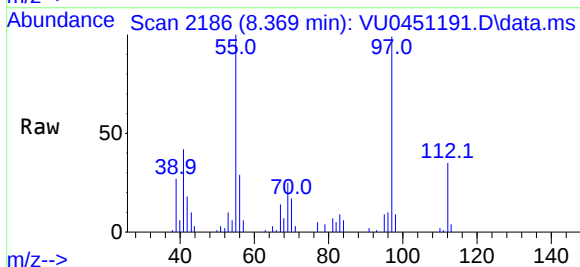
Instrument :
MSVOA_U
ClientSampleId :

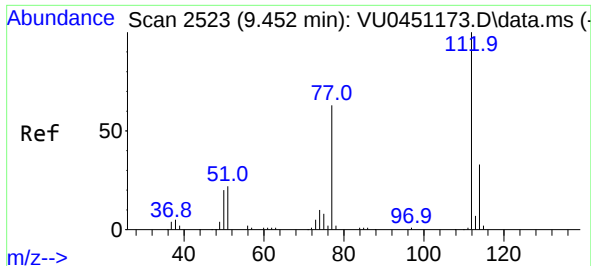
Tgt Ion: 75 Resp: 3503
Ion Ratio Lower Upper
75 100
77 43.8 21.7 40.3#



#45
1,1,2-Trichloroethane
Concen: 28.737 ug/L
RT: 8.369 min Scan# 2186
Delta R.T. -0.035 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Tgt Ion: 97 Resp: 16063
Ion Ratio Lower Upper
97 100
99 0.0 43.7 81.1#
83 9.5 61.9 115.1#
85 0.0 40.7 75.5#

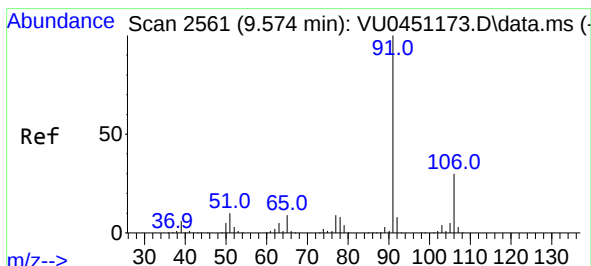
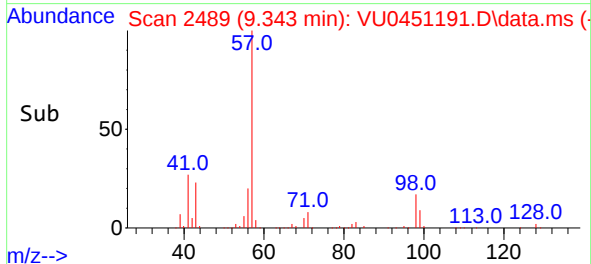
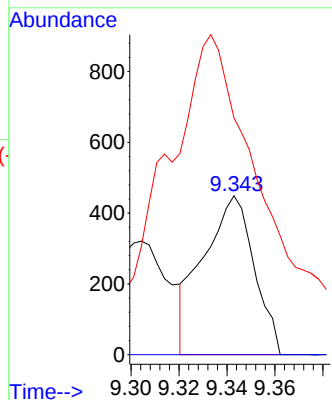
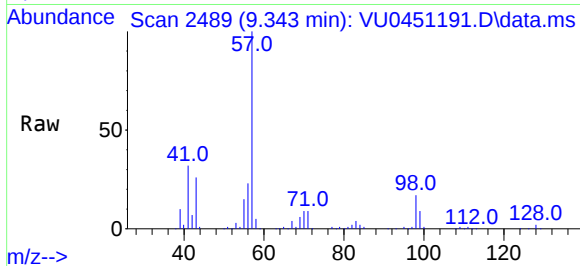




#51
Chlorobenzene
Concen: 0.467 ug/L
RT: 9.343 min Scan# 2489
Delta R.T. -0.109 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

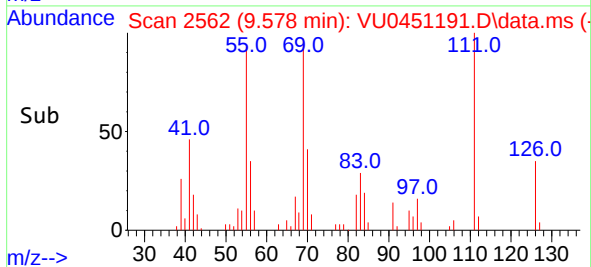
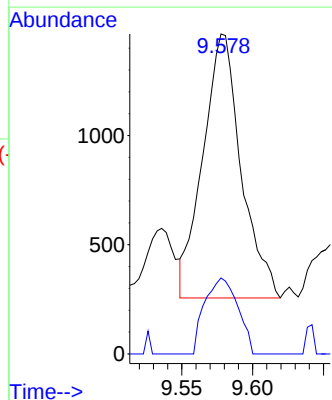
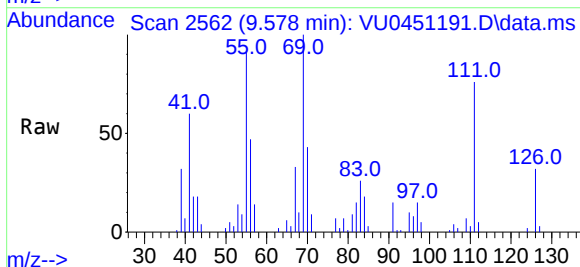
Instrument :
MSVOA_U
ClientSampleId :

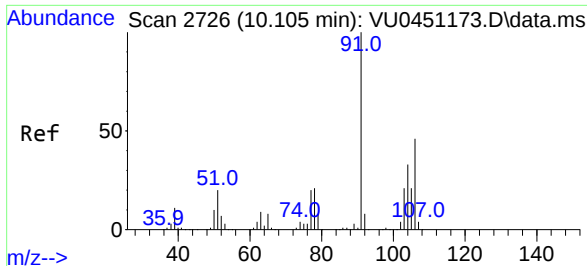
Tgt Ion:112 Resp: 663
Ion Ratio Lower Upper
112 100
114 0.0 22.5 41.9#
77 149.0 50.6 75.8#



#52
Ethylbenzene
Concen: 0.934 ug/L
RT: 9.578 min Scan# 2562
Delta R.T. 0.003 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Tgt Ion: 91 Resp: 2271
Ion Ratio Lower Upper
91 100
106 33.9 21.2 39.4

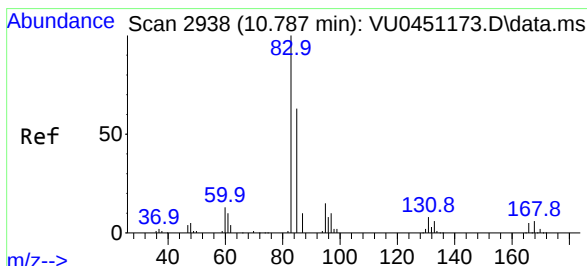
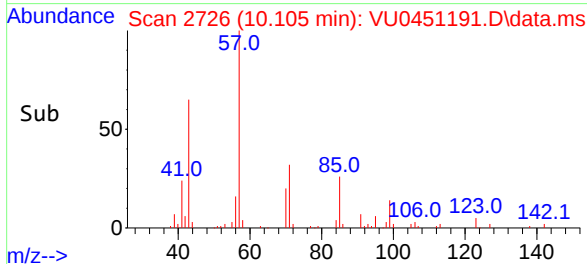
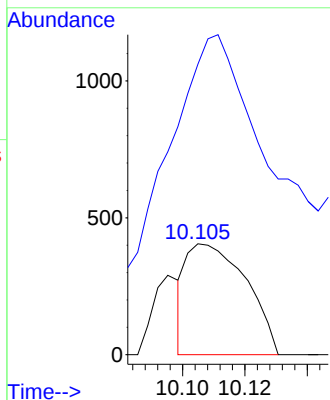
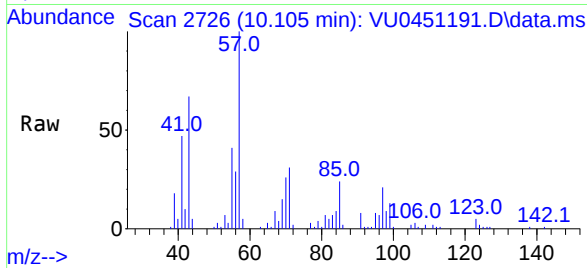




#54
o-xylene
Concen: 0.597 ug/L
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

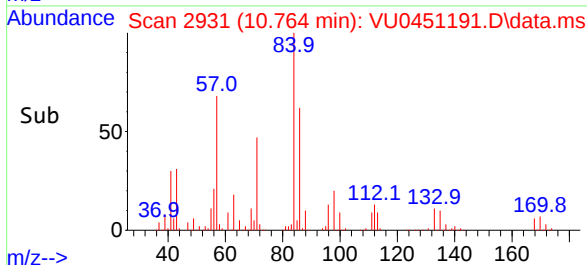
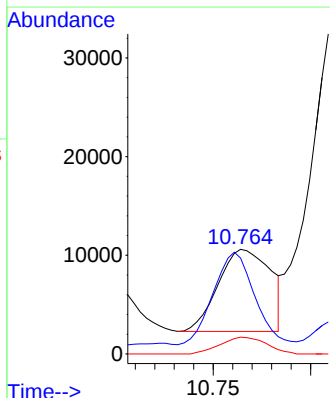
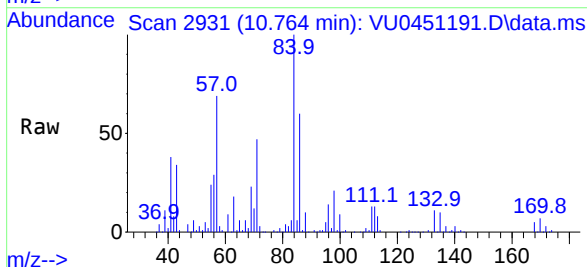
Instrument :
MSVOA_U
ClientSampled :

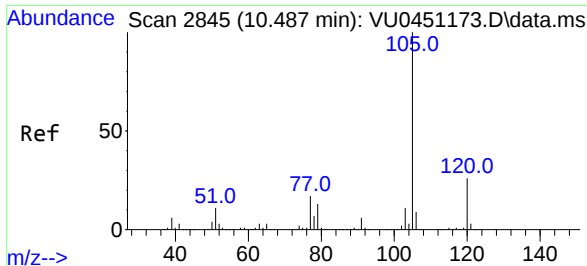
Tgt Ion:106 Resp: 540
Ion Ratio Lower Upper
106 100
91 206.4 152.9 283.9



#57
1,1,2,2-Tetrachloroethane
Concen: 14.498 ug/L
RT: 10.764 min Scan# 2931
Delta R.T. -0.022 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Tgt Ion: 83 Resp: 15517
Ion Ratio Lower Upper
83 100
85 91.5 45.1 83.7#
131 16.0 6.9 10.3#

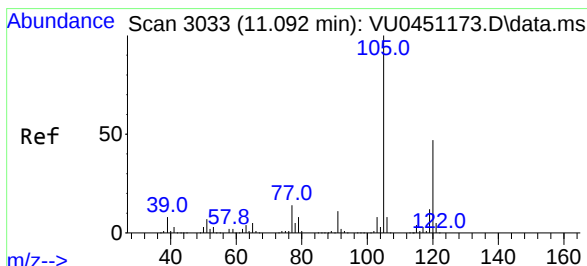
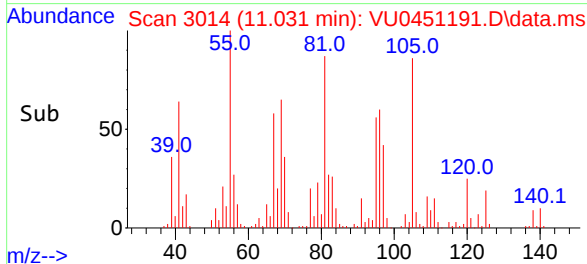
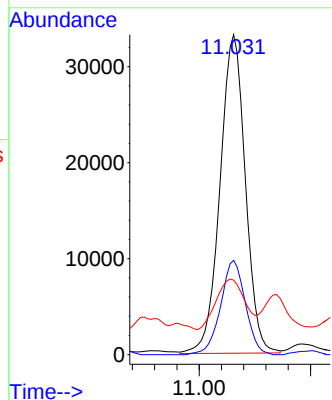
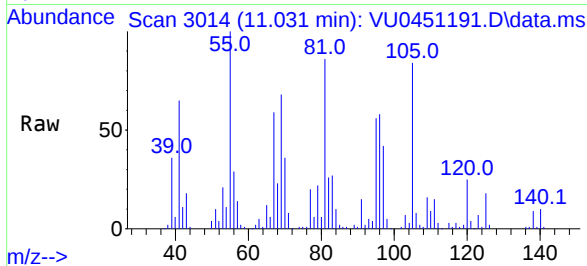




#61
Isopropylbenzene
Concen: 21.298 ug/L
RT: 11.031 min Scan# 3014
Delta R.T. 0.543 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

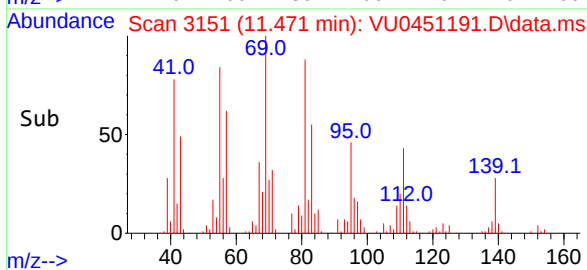
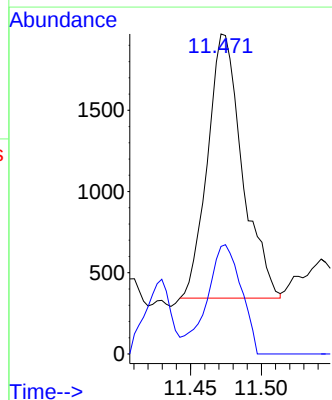
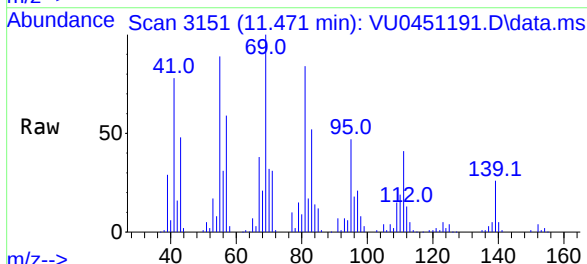
Instrument :
MSVOA_U
ClientSampleId :

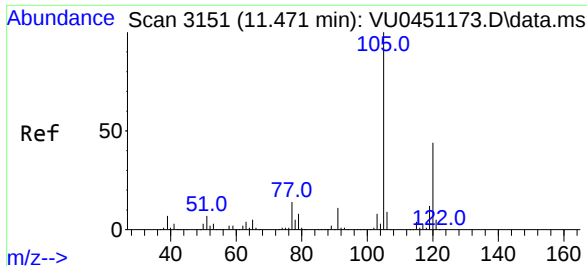
Tgt Ion:105	Resp:	52406
Ion Ratio	Lower	Upper
105	100	
120	28.9	20.5 30.7
77	17.7	13.5 20.3



#62
1,3,5-Trimethylbenzene
Concen: 1.354 ug/L
RT: 11.471 min Scan# 3151
Delta R.T. 0.379 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Tgt Ion:105	Resp:	2783
Ion Ratio	Lower	Upper
105	100	
120	41.0	38.8 58.2

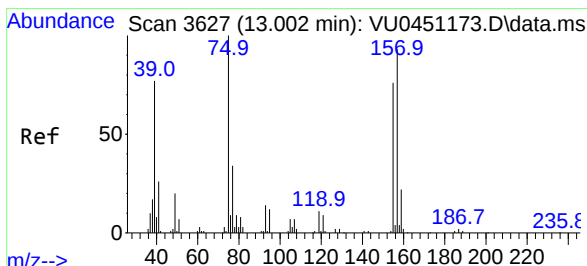
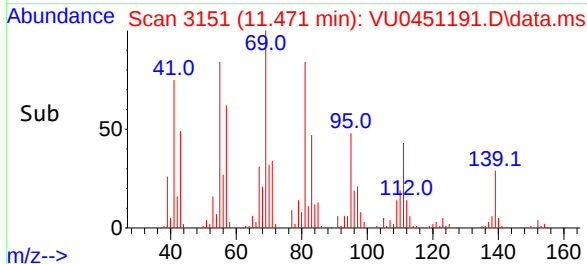
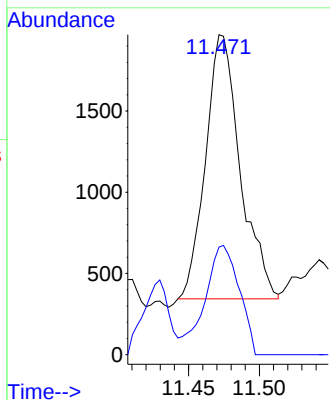
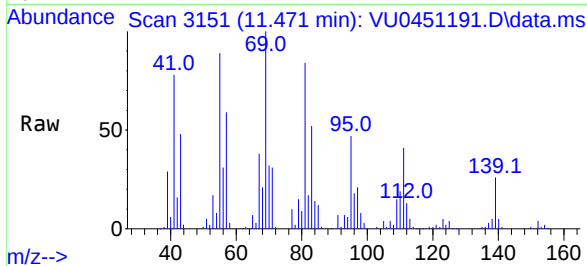




#63
1,2,4-Trimethylbenzene
Concen: 1.323 ug/L
RT: 11.471 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

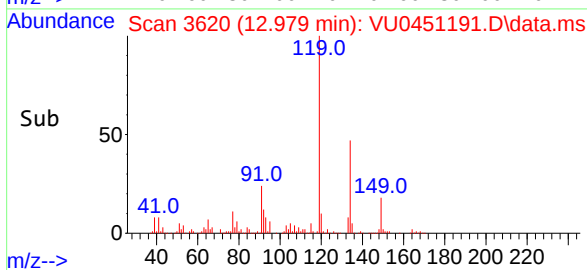
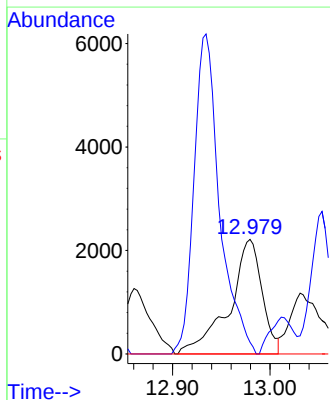
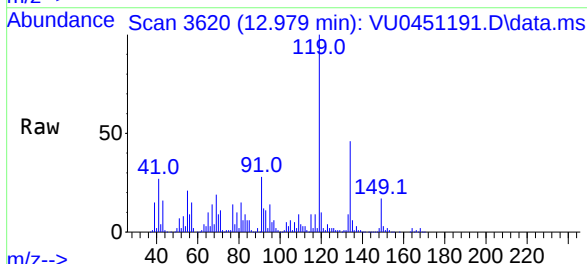
Instrument :
MSVOA_U
ClientSampleId :

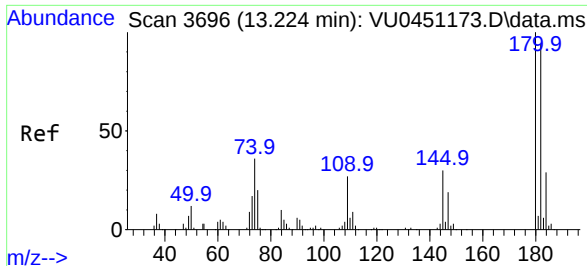
Tgt Ion:105 Resp: 2783
Ion Ratio Lower Upper
105 100
120 41.0 35.7 53.5



#68
1,2-Dibromo-3-chloropropane
Concen: 19.462 ug/L
RT: 12.979 min Scan# 3620
Delta R.T. -0.022 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Tgt Ion: 75 Resp: 5201
Ion Ratio Lower Upper
75 100
155 10.2 58.5 87.7#
157 0.0 77.7 116.5#



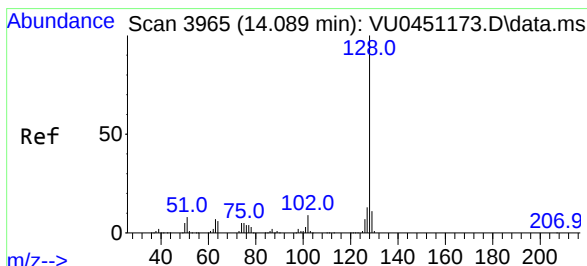
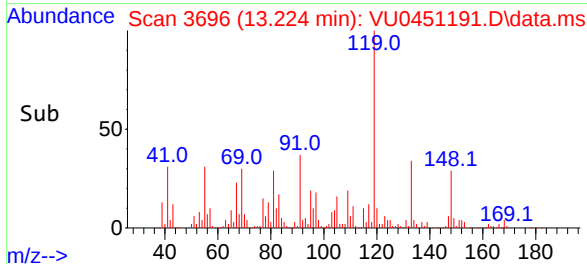
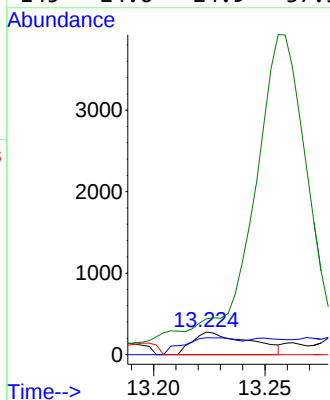
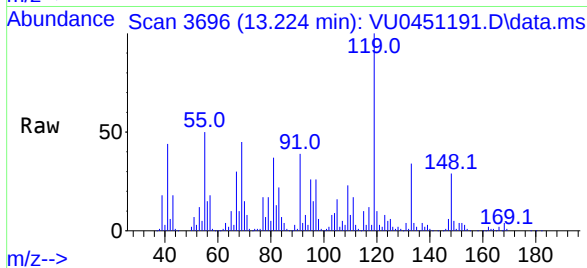


#69
1,3,5-Trichlorobenzene
Concen: 0.623 ug/L
RT: 13.224 min Scan# 3696
Delta R.T. 0.000 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion:180 Resp: 492

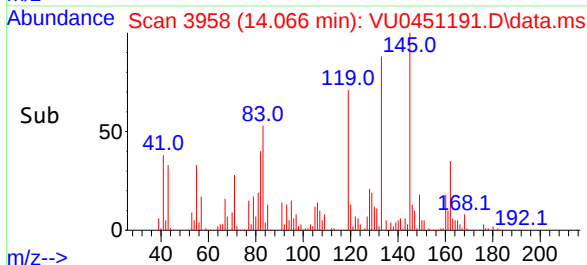
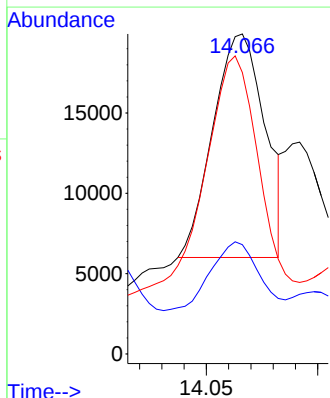
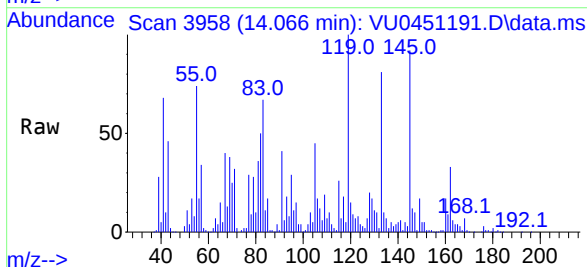
Ion	Ratio	Lower	Upper
180	100		
182	25.8	76.8	115.2#
184	0.0	24.4	36.6#
145	24.6	24.9	37.3#

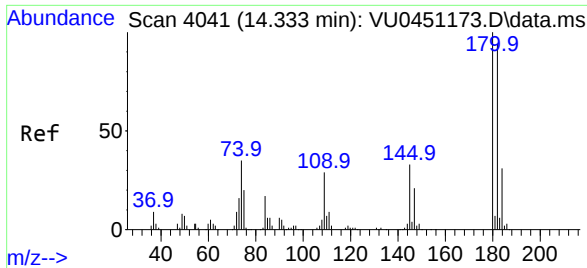


#71
Naphthalene
Concen: 9.930 ug/L
RT: 14.066 min Scan# 3958
Delta R.T. -0.022 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Tgt Ion:128 Resp: 22566

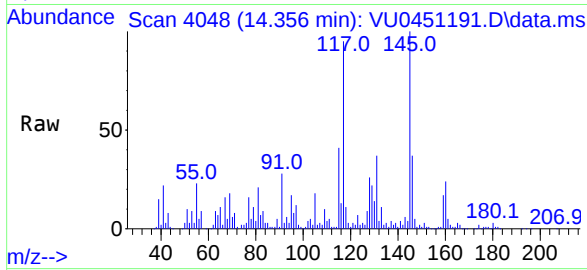
Ion	Ratio	Lower	Upper
128	100		
127	24.7	10.4	15.6#
129	94.9	8.8	13.2#





#72
1,2,3-Trichlorobenzene
Concen: 10.527 ug/L
RT: 14.356 min Scan# 4048
Delta R.T. 0.023 min
Lab File: VU0451191.D
Acq: 06 Oct 2021 17:25

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:180 Resp: 7063
Ion Ratio Lower Upper
180 100
182 24.9 76.8 115.2#
145 4211.6 26.5 39.7#

