

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020521\
 Data File : VU042283.D
 Acq On : 05 Feb 2021 17:41
 Operator : SY/MD
 Sample : M1327-01 10X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X2Z60

Quant Time: Feb 06 07:26:59 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM020521WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Feb 06 07:13:30 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.260	114	188279	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.427	117	179999	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	98642	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	65067	45.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.84%
7) Chloroethane-d5	1.916	69	48950	50.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.74%
11) 1,1-Dichloroethene-d2	2.578	63	181381	59.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	119.96%
21) 2-Butanone-d5	4.639	46	140888	96.10	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.10%
24) Chloroform-d	5.073	84	137359	48.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.54%
26) 1,2-Dichloroethane-d4	5.713	65	98090	48.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.44%
32) Benzene-d6	5.739	84	253509	48.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.94%
36) 1,2-Dichloropropane-d6	6.700	67	82765	47.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.76%
41) Toluene-d8	7.906	98	236382	47.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.42%
43) trans-1,3-Dichloroprop...	8.189	79	44763	49.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.58%
47) 2-Hexanone-d5	8.642	63	95055	96.23	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.23%
56) 1,1,2,2-Tetrachloroeth...	10.764	84	132217	50.84	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.68%
66) 1,2-Dichlorobenzene-d4	12.201	152	99695	48.20	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.40%
Target Compounds						
					Qvalue	
8) Chloroethane	1.938	64	71925	91.70	ug/L	98
12) 1,1-Dichloroethene	2.588	96	118879	98.36	ug/L	86
16) Methylene chloride	3.054	84	72548	53.08	ug/L	98
18) Methyl tert-butyl Ether	3.372	73	539384	119.04	ug/L	99
25) Chloroform	5.099	83	101808	38.44	ug/L	99
30) 1,1,1-Trichloroethane	5.327	97	125373	50.90	ug/L	99
31) Carbon tetrachloride	5.536	117	229847	108.49	ug/L	98
33) Benzene	5.784	78	593222	107.80	ug/L	100
34) Trichloroethene	6.552	95	264972	183.77	ug/L	99
38) Bromodichloromethane	7.115	83	220302	106.37	ug/L	98
39) cis-1,3-Dichloropropene	7.616	75	84741	35.31	ug/L	100
40) 4-Methyl-2-pentanone	7.800	43	691836	227.39	ug/L	99
42) Toluene	7.976	91	1364283	232.04	ug/L	99
44) trans-1,3-Dichloropropene	8.218	75	523878	221.60	ug/L	98
45) 1,1,2-Trichloroethane	8.411	97	394100	278.84	ug/L	99
46) Tetrachloroethene	8.562	164	184279	161.75	ug/L	99
48) 2-Hexanone	8.693	43	598216	242.86	ug/L	97
49) Dibromochloromethane	8.819	129	202163	122.81	ug/L	98
50) 1,2-Dibromoethane	8.931	107	40111	25.31	ug/L	99

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

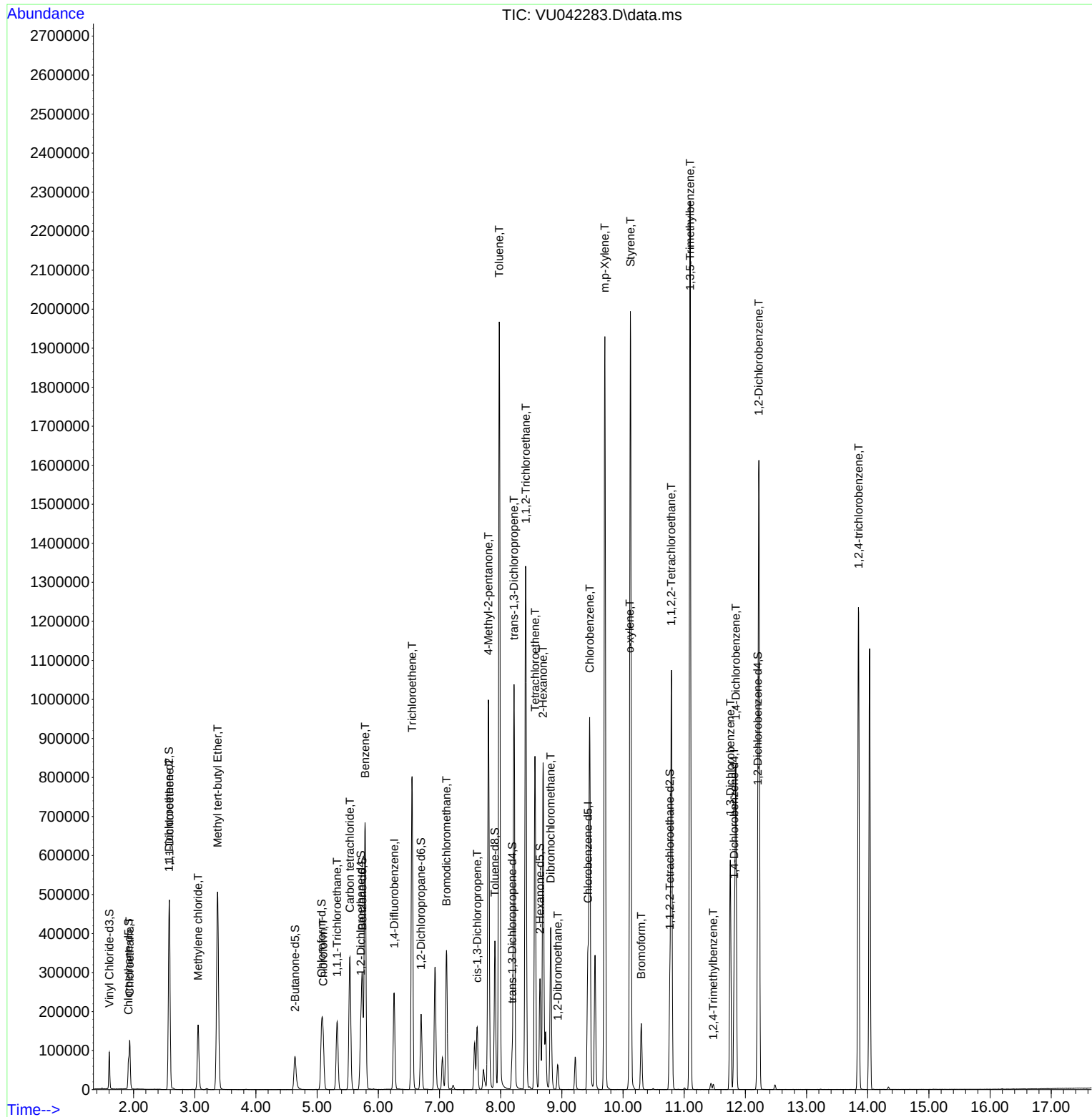
51) Chlorobenzene	9.456	112	467181	125.21	ug/L	99
53) m,p-Xylene	9.703	106	512329	209.95	ug/L	98
54) o-xylene	10.108	106	69430	28.60	ug/L	100
55) Styrene	10.121	104	826338	199.14	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.790	83	489543	190.28	ug/L	99
59) Bromoform	10.298	173	76357	55.20	ug/L	99
62) 1,3,5-Trimethylbenzene	11.095	105	1181556	207.95	ug/L	99
63) 1,2,4-Trimethylbenzene	11.475	105	7122	1.24	ug/L	97
64) 1,3-Dichlorobenzene	11.754	146	230525	74.45	ug/L	100
65) 1,4-Dichlorobenzene	11.844	146	310176	98.36	ug/L	100
67) 1,2-Dichlorobenzene	12.221	146	583187	183.26	ug/L	98
70) 1,2,4-trichlorobenzene	13.851	180	372756	186.19	ug/L	100

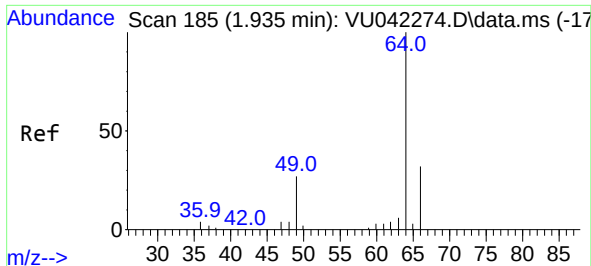
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
QLast Update : Sat Feb 06 07:13:30 2021
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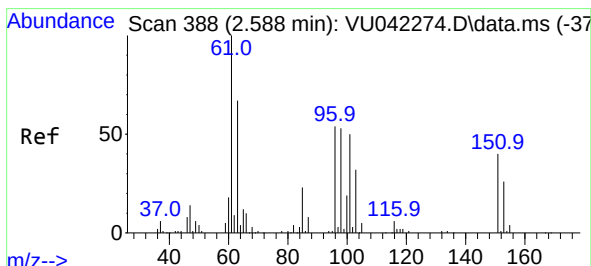
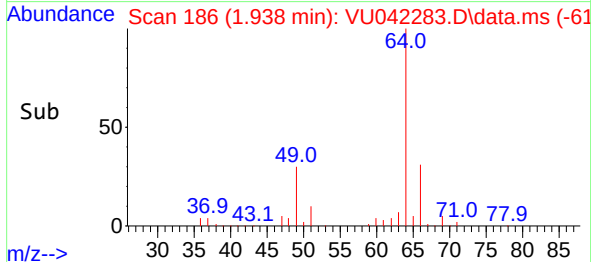
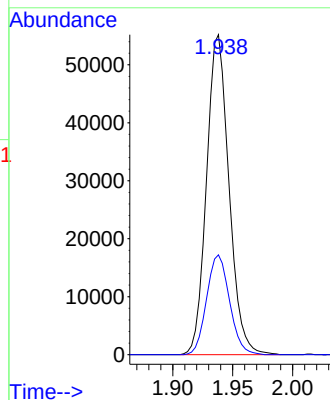
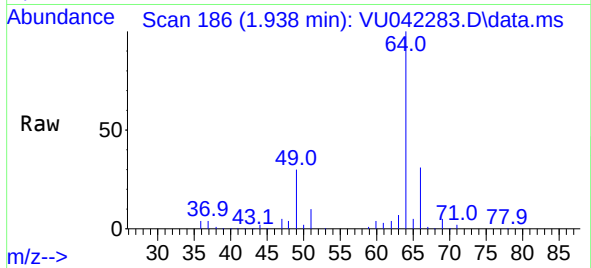




#8
Chloroethane
Concen: 91.70 ug/L
RT: 1.938 min Scan# 186
Delta R.T. 0.003 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

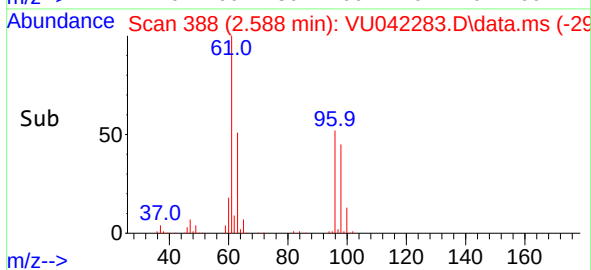
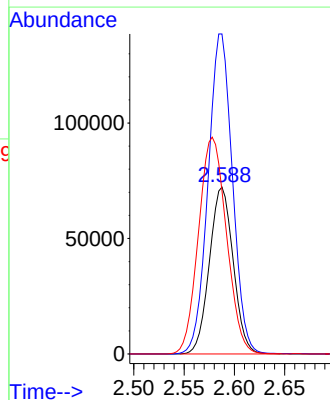
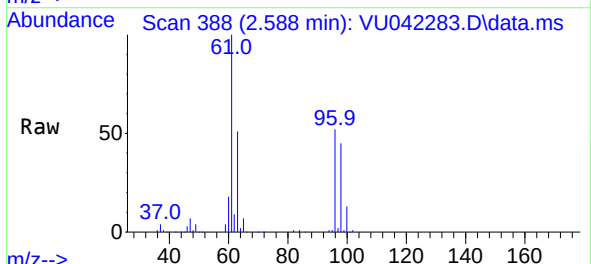
Instrument :
MSVOA_U
ClientSampled :
X2Z60

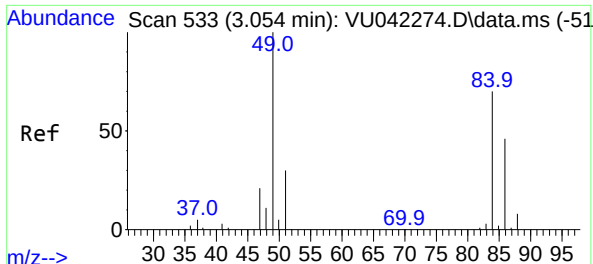
Tgt Ion: 64 Resp: 71925
Ion Ratio Lower Upper
64 100
66 31.2 22.5 41.7



#12
1,1-Dichloroethene
Concen: 98.36 ug/L
RT: 2.588 min Scan# 388
Delta R.T. -0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion: 96 Resp: 118879
Ion Ratio Lower Upper
96 100
61 191.7 131.6 244.4
63 97.8 92.6 172.0



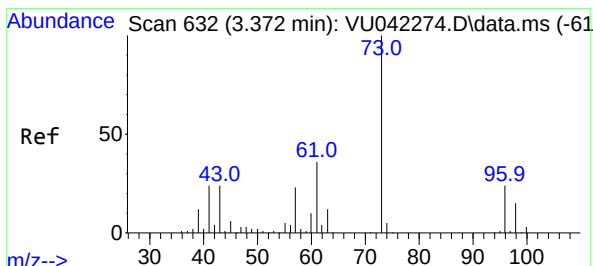
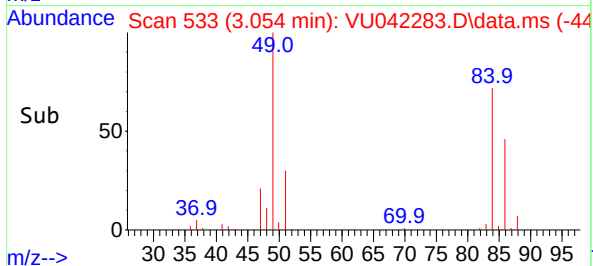
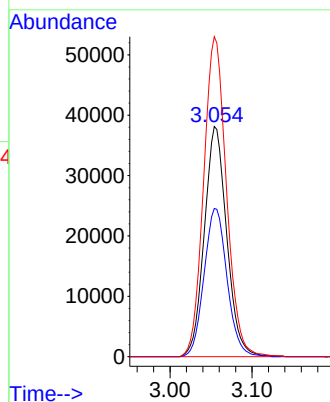
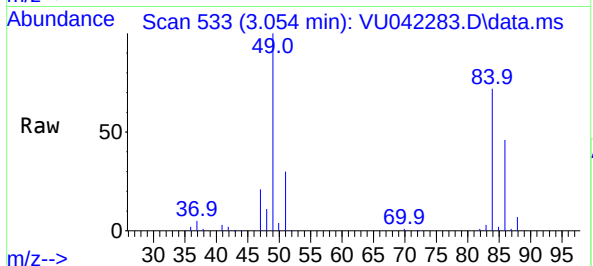


#16
Methylene chloride
Concen: 53.08 ug/L
RT: 3.054 min Scan# 533
Delta R.T. -0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Instrument :
MSVOA_U
ClientSampleId :
X2Z60

Tgt Ion: 84 Resp: 72548

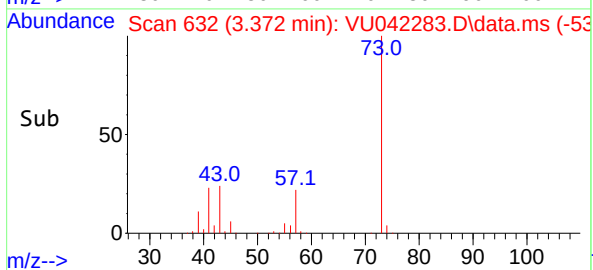
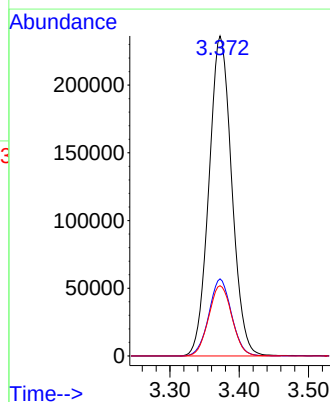
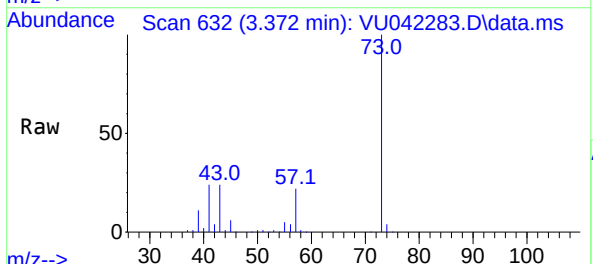
Ion	Ratio	Lower	Upper
84	100		
86	64.4	46.0	85.4
49	139.0	99.5	184.9

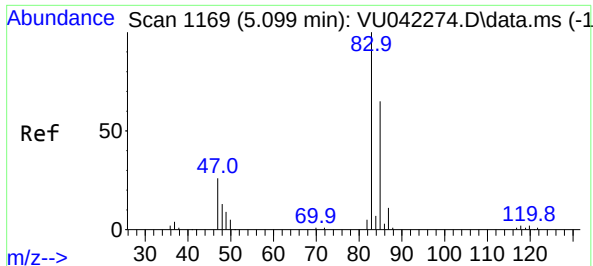


#18
Methyl tert-butyl Ether
Concen: 119.04 ug/L
RT: 3.372 min Scan# 632
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion: 73 Resp: 539384

Ion	Ratio	Lower	Upper
73	100		
43	23.9	19.4	29.0
57	22.4	18.2	27.2



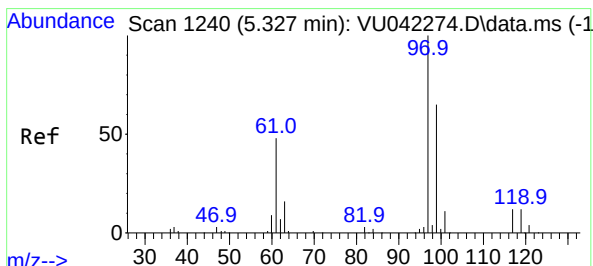
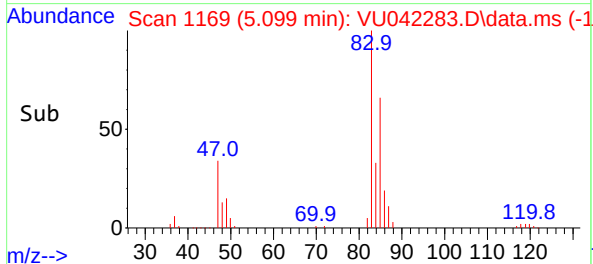
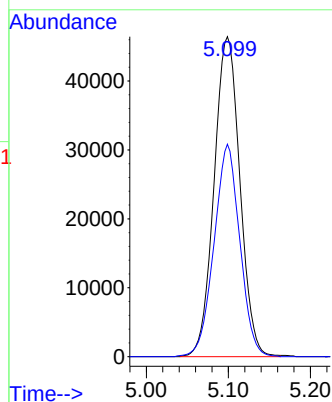
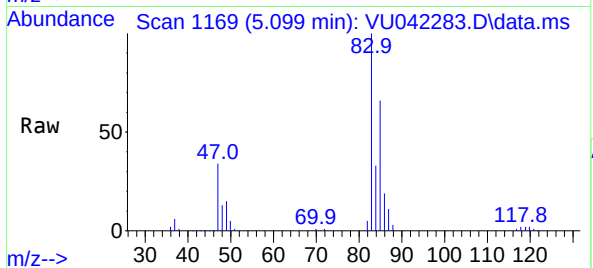


#25

Chloroform
Concen: 38.44 ug/L
RT: 5.099 min Scan# 1169
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Instrument :
MSVOA_U
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X2Z60

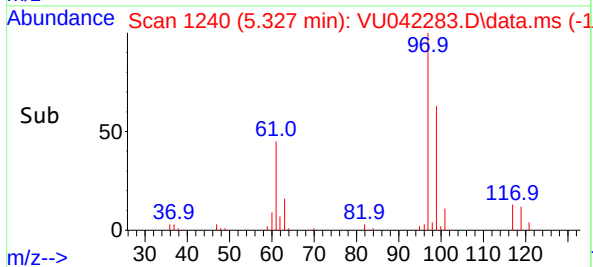
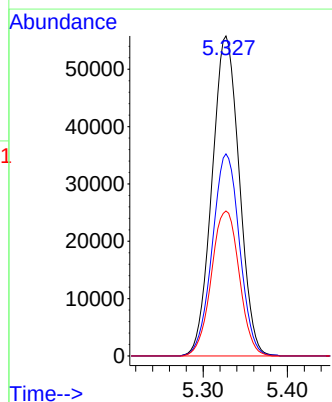
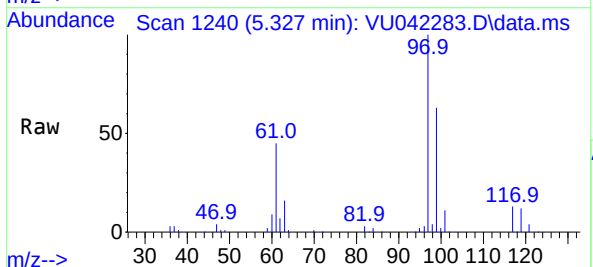
Tgt Ion: 83 Resp: 101808
Ion Ratio Lower Upper
83 100
85 66.4 46.1 85.5

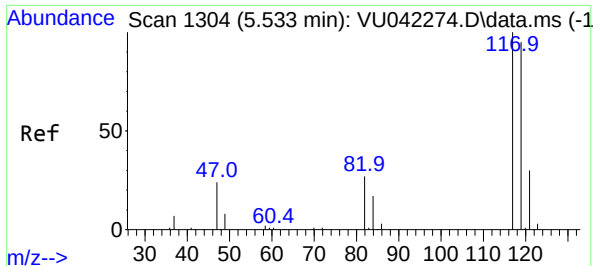


#30

1,1,1-Trichloroethane
Concen: 50.90 ug/L
RT: 5.327 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion: 97 Resp: 125373
Ion Ratio Lower Upper
97 100
99 63.3 51.3 76.9
61 46.4 37.7 56.5

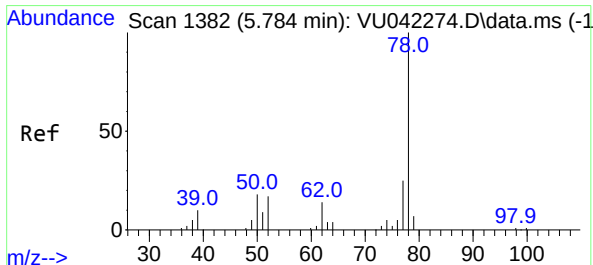
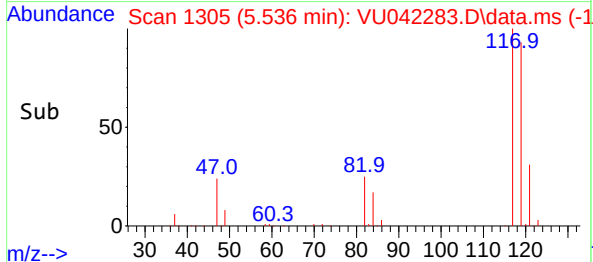
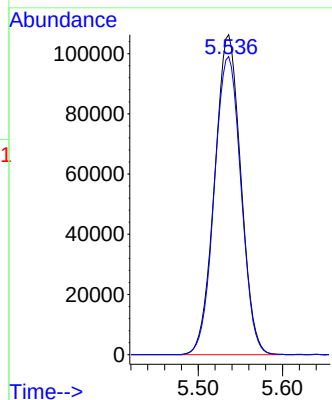
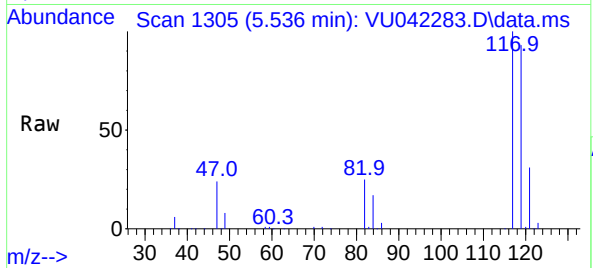




#31
Carbon tetrachloride
Concen: 108.49 ug/L
RT: 5.536 min Scan# 1305
Delta R.T. 0.003 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

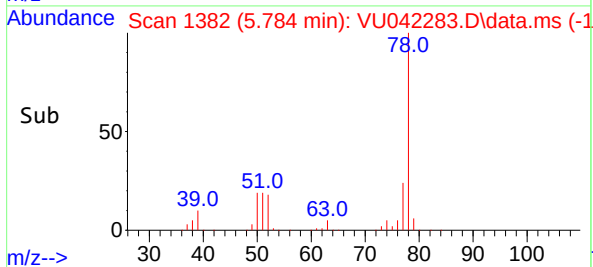
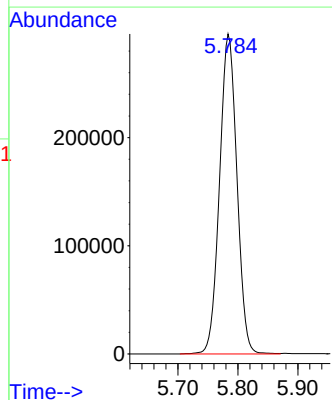
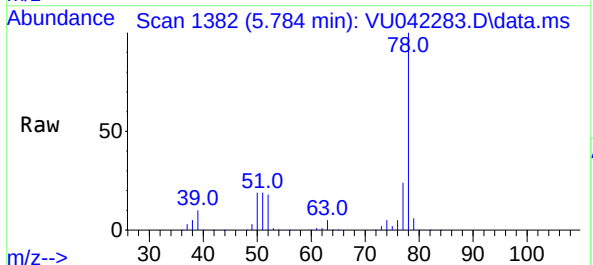
Instrument :
MSVOA_U
ClientSampled :
X2Z60

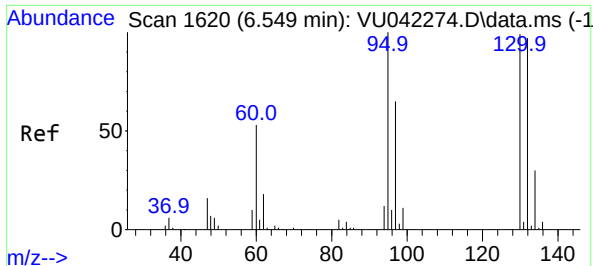
Tgt Ion:117 Resp: 229847
Ion Ratio Lower Upper
117 100
119 94.8 77.5 116.3



#33
Benzene
Concen: 107.80 ug/L
RT: 5.784 min Scan# 1382
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion: 78 Resp: 593222

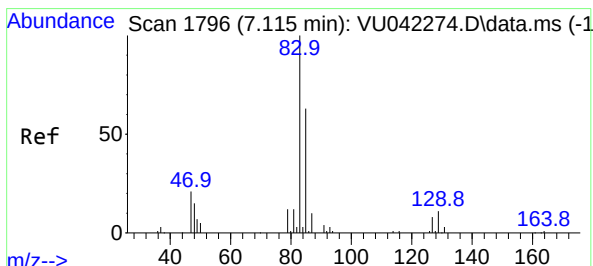
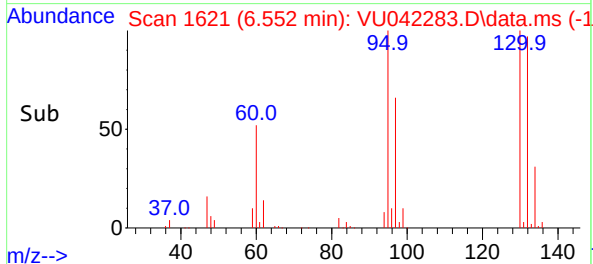
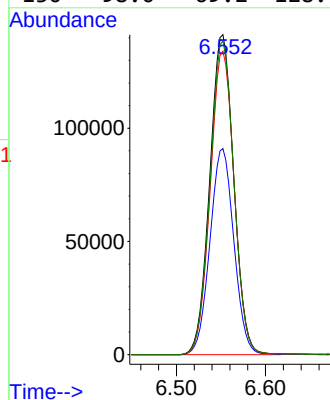
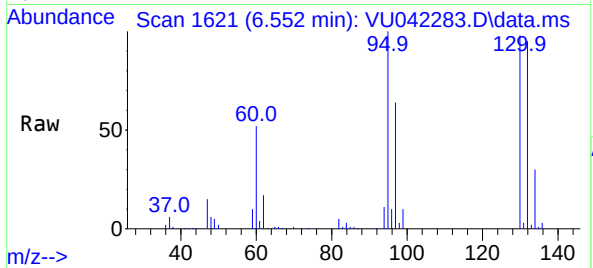




#34
Trichloroethene
Concen: 183.77 ug/L
RT: 6.552 min Scan# 1621
Delta R.T. 0.003 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

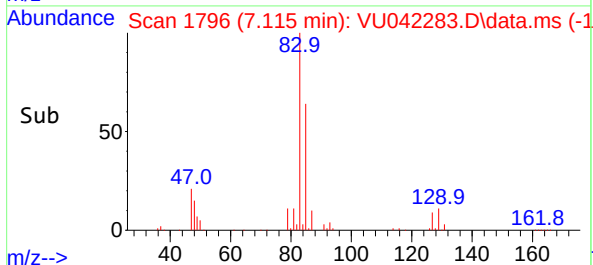
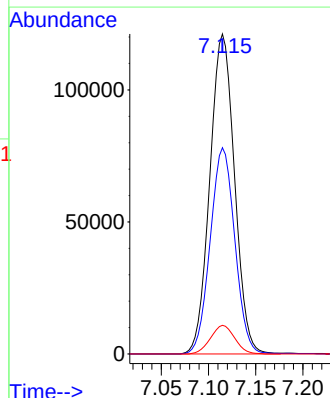
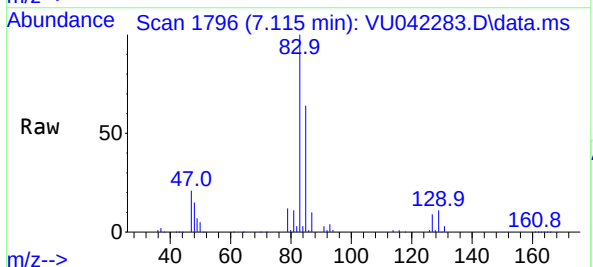
Instrument :
MSVOA_U
ClientSampled :
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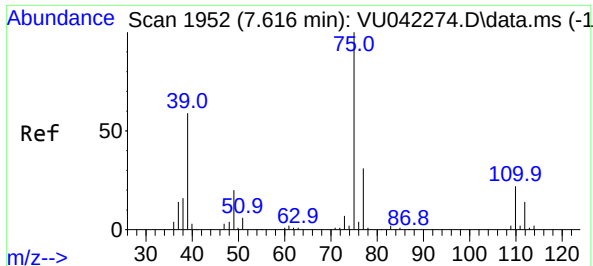
Tgt Ion: 95 Resp: 264972
Ion Ratio Lower Upper
95 100
97 64.4 45.3 84.1
132 94.8 67.5 125.4
130 98.0 69.2 128.4



#38
Bromodichloromethane
Concen: 106.37 ug/L
RT: 7.115 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion: 83 Resp: 220302
Ion Ratio Lower Upper
83 100
85 64.5 43.8 81.4
127 9.0 6.8 10.2



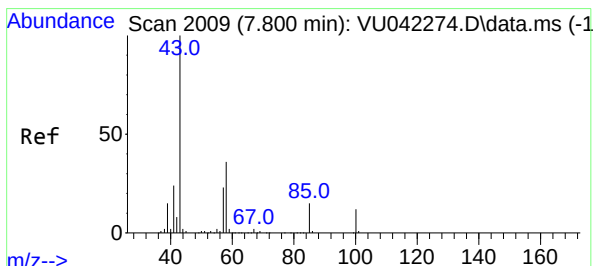
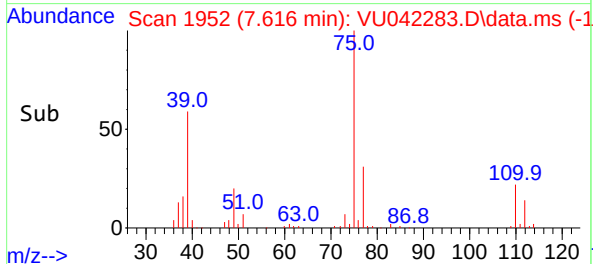
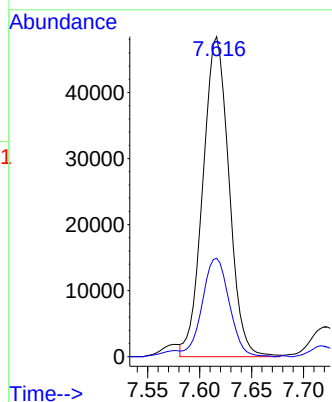
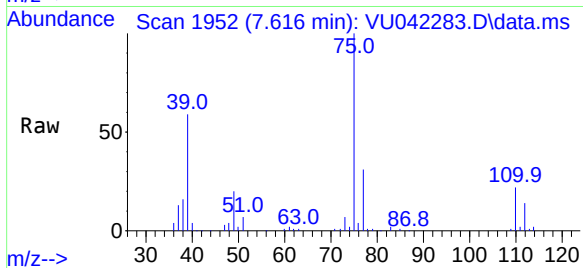


#39

cis-1,3-Dichloropropene
Concen: 35.31 ug/L
RT: 7.616 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Instrument :
MSVOA_U
ClientSampled :
X2Z60

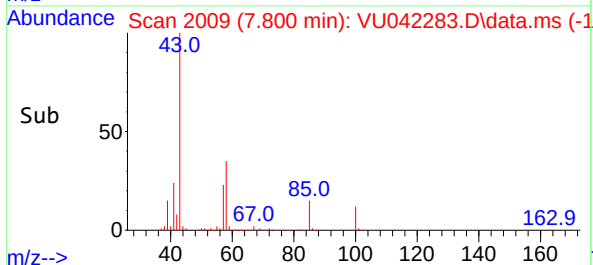
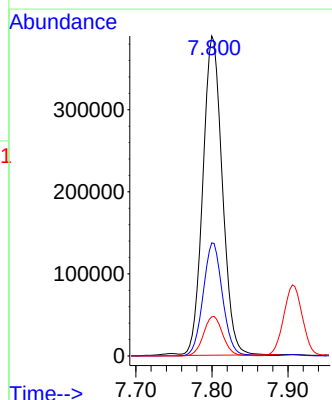
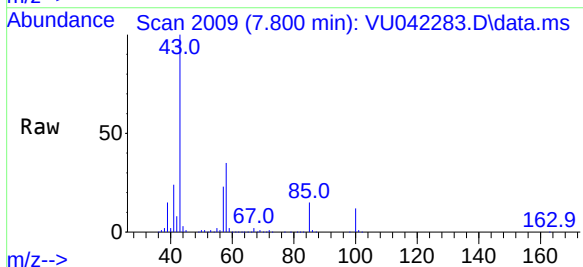
Tgt Ion: 75 Resp: 84741
Ion Ratio Lower Upper
75 100
77 30.8 21.7 40.3

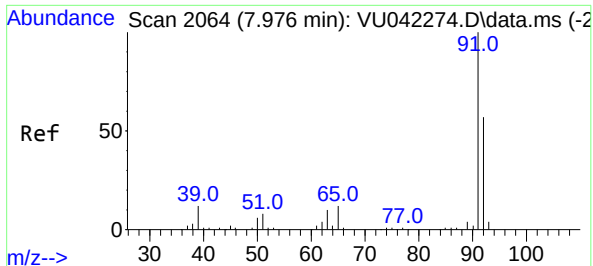


#40

4-Methyl-2-pentanone
Concen: 227.39 ug/L
RT: 7.800 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion: 43 Resp: 691836
Ion Ratio Lower Upper
43 100
58 35.3 28.7 43.1
100 12.4 9.7 14.5





#42

Toluene

Concen: 232.04 ug/L

RT: 7.976 min Scan# 2064

Delta R.T. 0.000 min

Lab File: VU042283.D

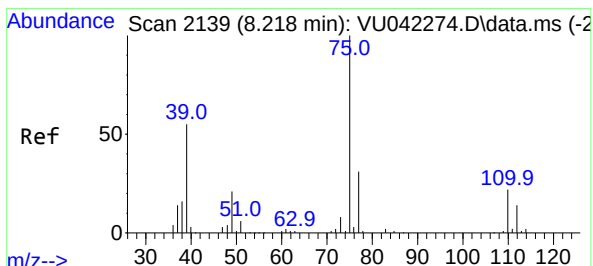
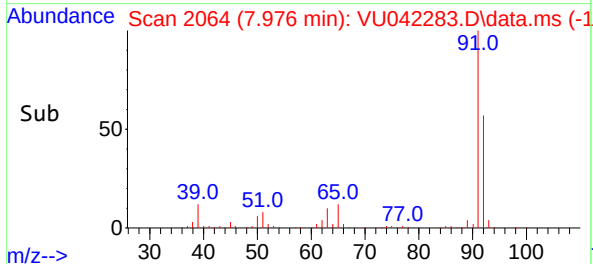
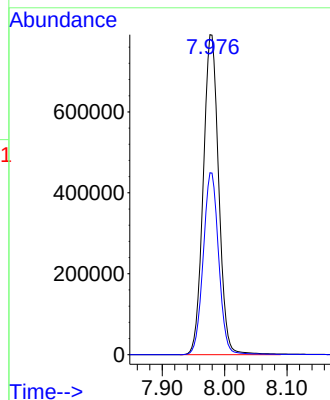
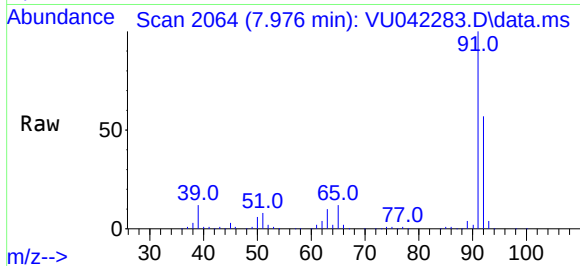
Acq: 05 Feb 2021 17:41

Tgt Ion: 91 Resp: 1364283

Ion Ratio Lower Upper

91 100

92 56.9 40.3 74.8



#44

trans-1,3-Dichloropropene

Concen: 221.60 ug/L

RT: 8.218 min Scan# 2139

Delta R.T. 0.000 min

Lab File: VU042283.D

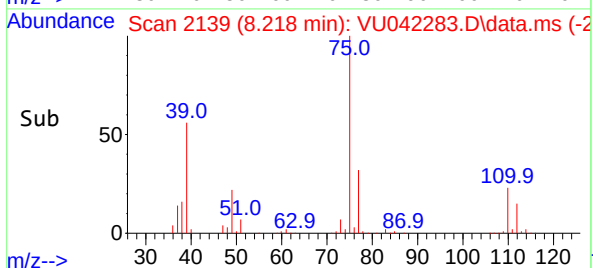
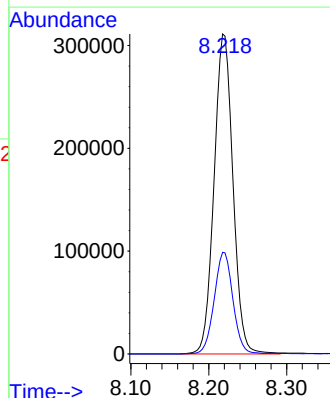
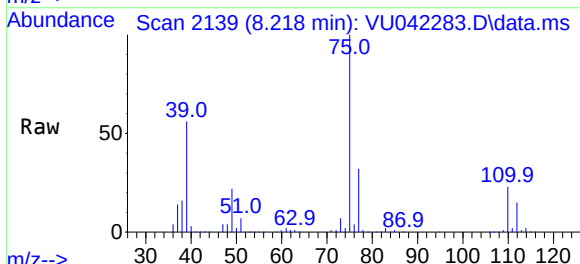
Acq: 05 Feb 2021 17:41

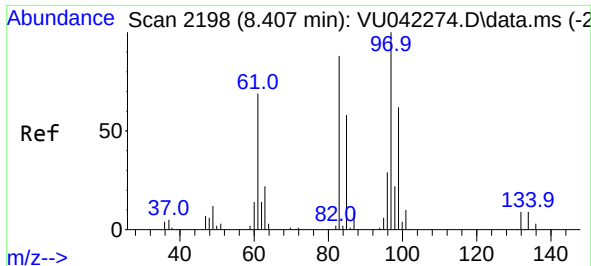
Tgt Ion: 75 Resp: 523878

Ion Ratio Lower Upper

75 100

77 31.7 21.6 40.2



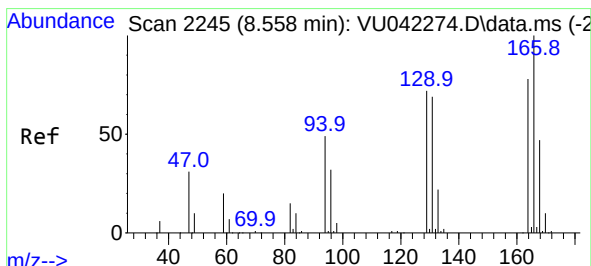
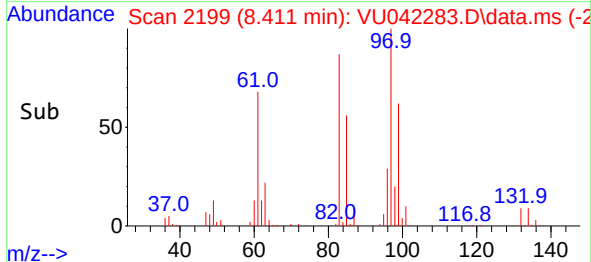
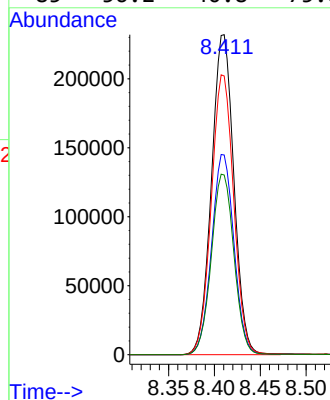
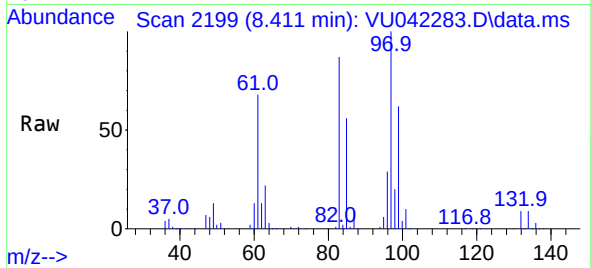


#45
1,1,2-Trichloroethane
Concen: 278.84 ug/L
RT: 8.411 min Scan# 2199
Delta R.T. 0.003 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Instrument :
MSVOA_U
ClientSampled :
X2Z60

Tgt Ion: 97 Resp: 394100

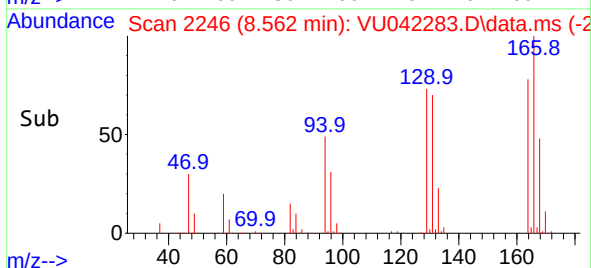
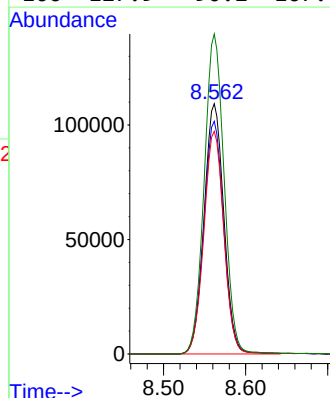
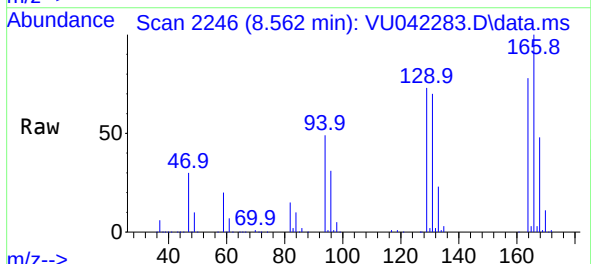
Ion	Ratio	Lower	Upper
97	100		
99	62.4	43.7	81.1
83	87.1	61.7	114.7
85	56.2	40.8	75.8

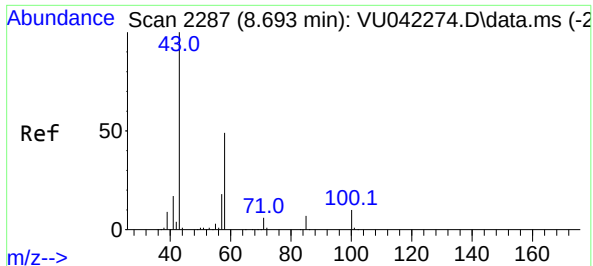


#46
Tetrachloroethene
Concen: 161.75 ug/L
RT: 8.562 min Scan# 2246
Delta R.T. 0.003 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion: 164 Resp: 184279

Ion	Ratio	Lower	Upper
164	100		
129	92.9	65.2	121.2
131	88.9	62.4	115.8
166	127.9	90.2	167.6



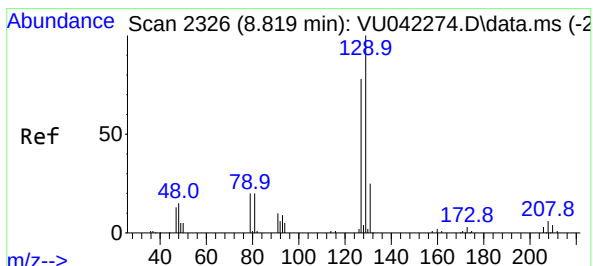
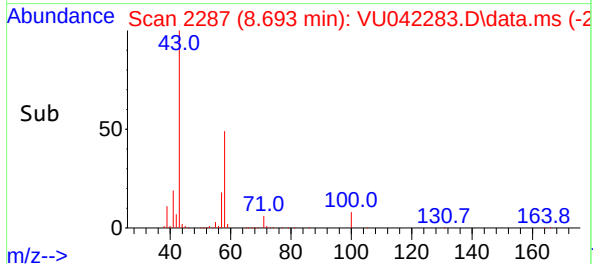
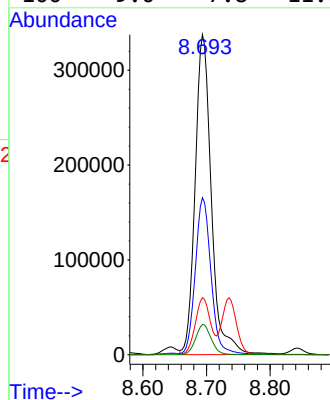
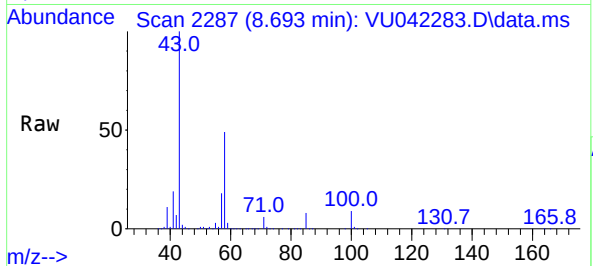


#48
2-Hexanone
Concen: 242.86 ug/L
RT: 8.693 min Scan# 2287
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Instrument :
MSVOA_U
ClientSampled :
X2Z60

Tgt Ion: 43 Resp: 598216

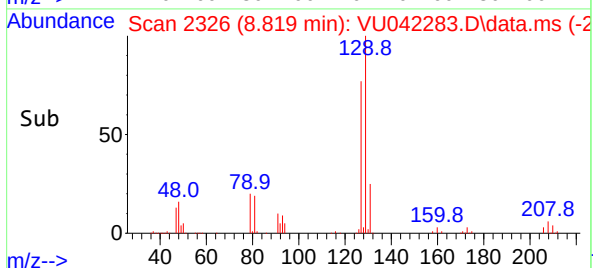
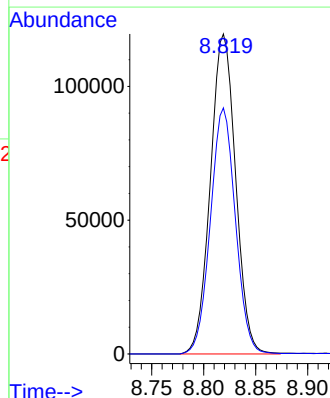
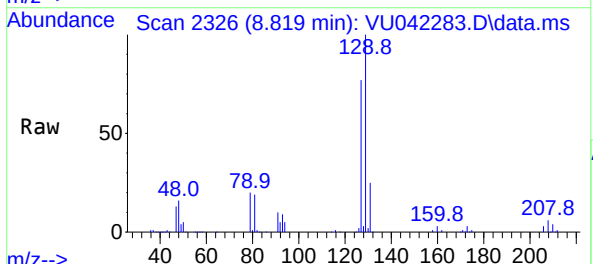
Ion	Ratio	Lower	Upper
43	100		
58	46.9	39.2	58.8
57	16.9	14.4	21.6
100	9.0	7.8	11.6

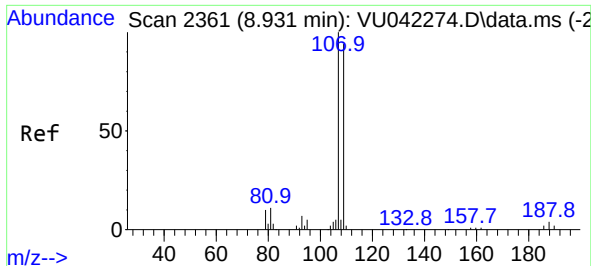


#49
Dibromochloromethane
Concen: 122.81 ug/L
RT: 8.819 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion: 129 Resp: 202163

Ion	Ratio	Lower	Upper
129	100		
127	76.9	54.7	101.7



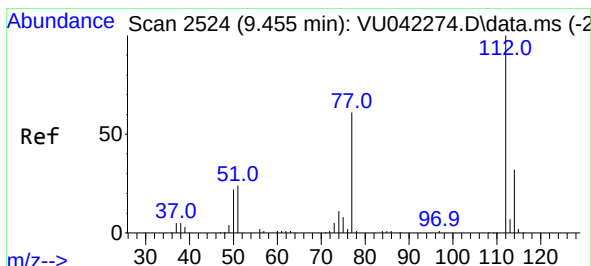
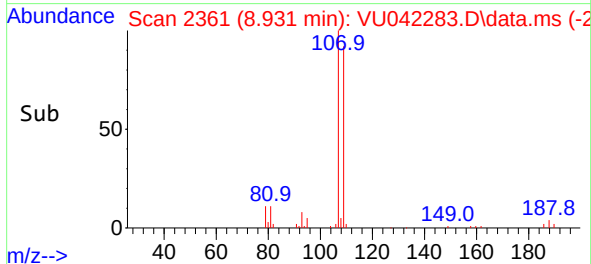
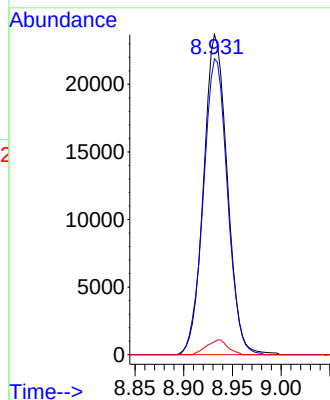
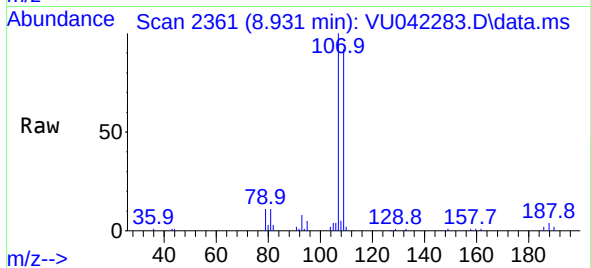


#50
1,2-Dibromoethane
Concen: 25.31 ug/L
RT: 8.931 min Scan# 2361
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Instrument :
MSVOA_U
ClientSampled :
X2Z60

Tgt Ion:107 Resp: 40111

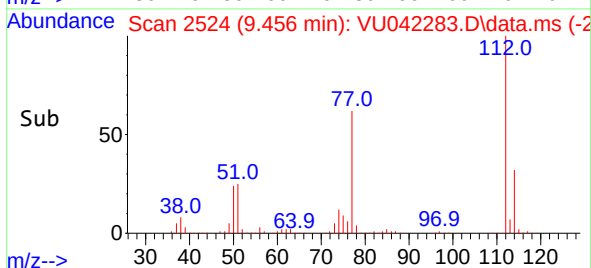
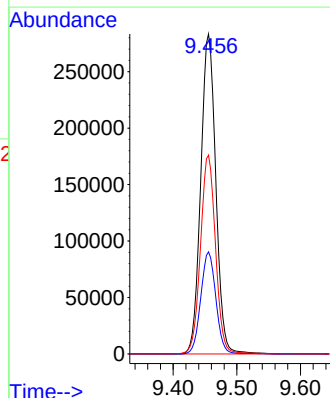
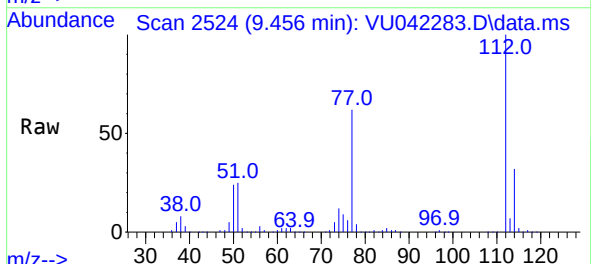
Ion	Ratio	Lower	Upper
107	100		
109	92.4	65.7	121.9
188	4.0	3.4	5.0

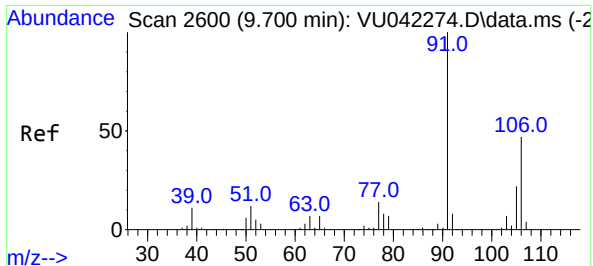


#51
Chlorobenzene
Concen: 125.21 ug/L
RT: 9.456 min Scan# 2524
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion:112 Resp: 467181

Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.7	42.1
77	62.1	49.4	74.2

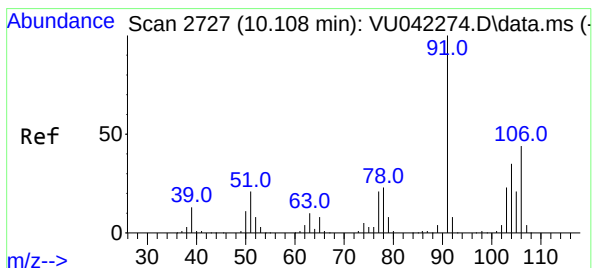
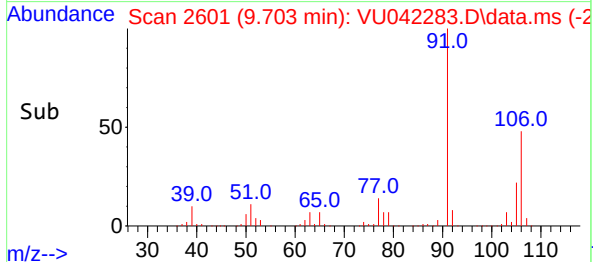
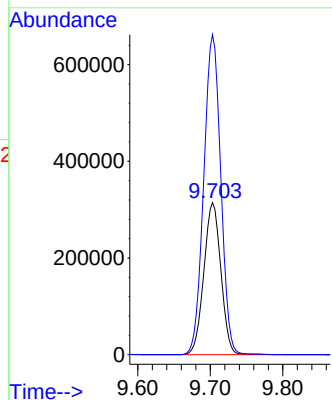
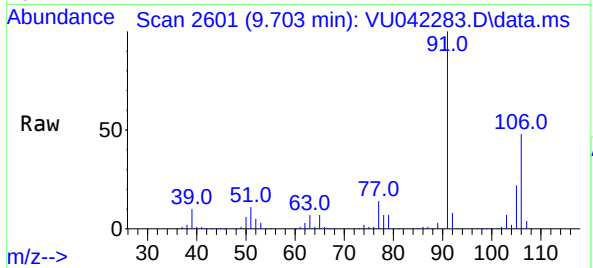




#53
m,p-Xylene
Concen: 209.95 ug/L
RT: 9.703 min Scan# 2601
Delta R.T. 0.003 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

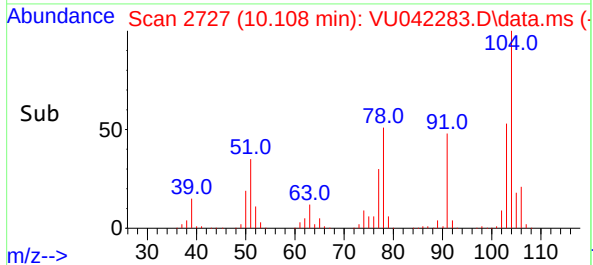
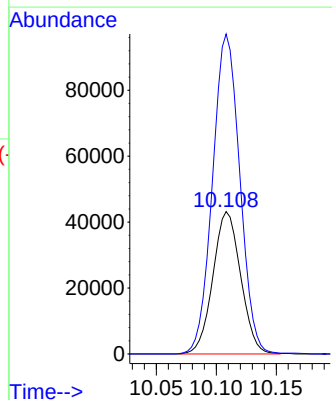
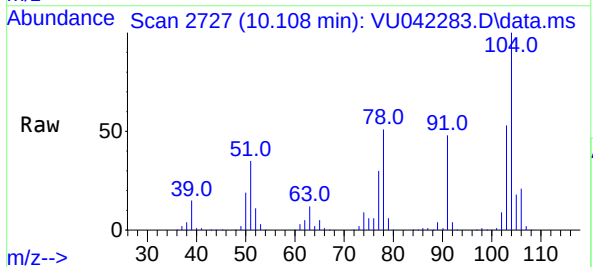
Instrument :
MSVOA_U
ClientSampled :
X2Z60

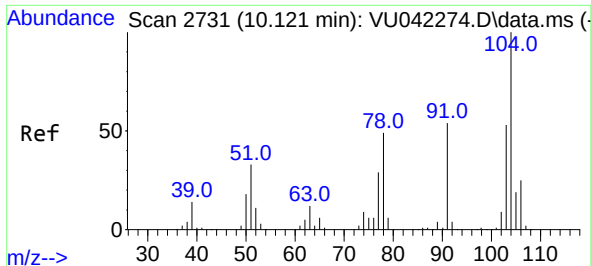
Tgt Ion:106 Resp: 512329
Ion Ratio Lower Upper
106 100
91 210.4 149.7 277.9



#54
o-xylene
Concen: 28.60 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion:106 Resp: 69430
Ion Ratio Lower Upper
106 100
91 224.7 157.4 292.2

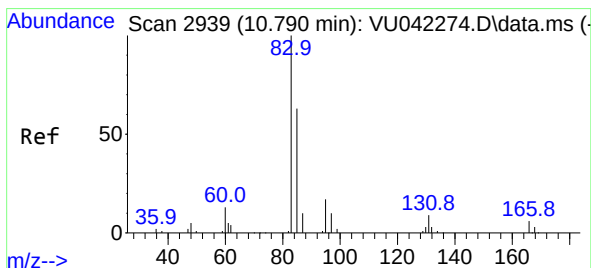
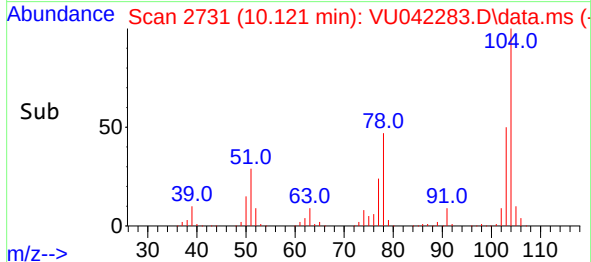
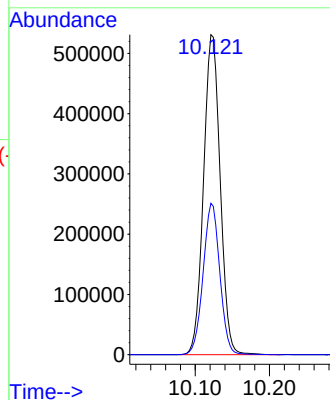
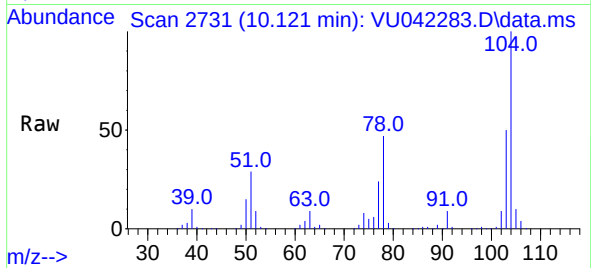




#55
Styrene
Concen: 199.14 ug/L
RT: 10.121 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

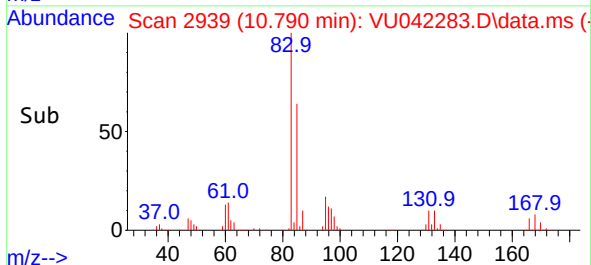
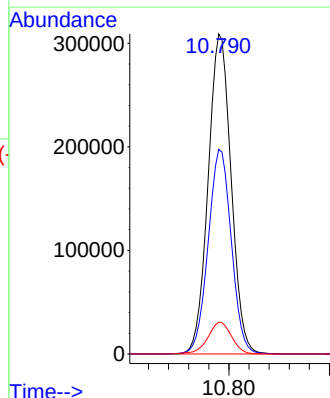
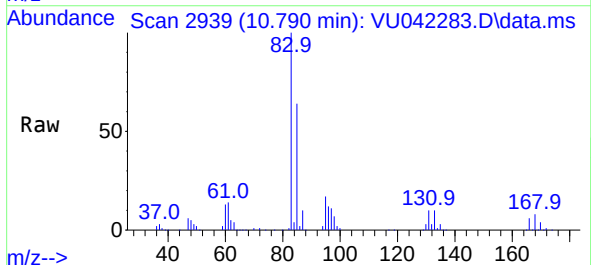
Instrument :
MSVOA_U
ClientSampled :
X2Z60

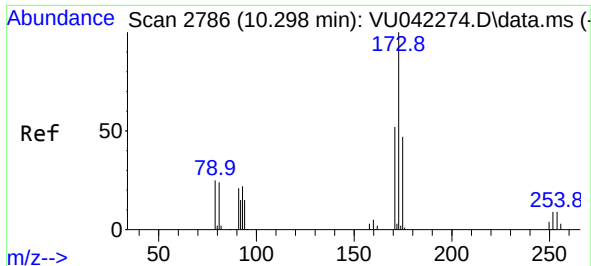
Tgt Ion:104 Resp: 826338
Ion Ratio Lower Upper
104 100
78 47.3 34.4 64.0



#57
1,1,2,2-Tetrachloroethane
Concen: 190.28 ug/L
RT: 10.790 min Scan# 2939
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion: 83 Resp: 489543
Ion Ratio Lower Upper
83 100
85 63.9 45.4 84.2
131 9.9 8.1 12.1



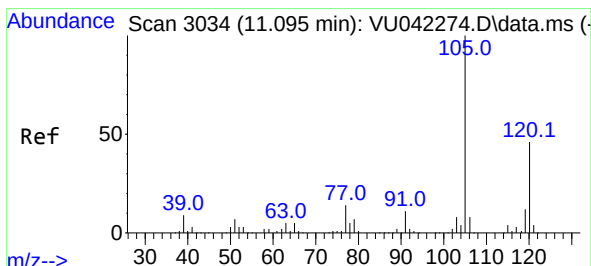
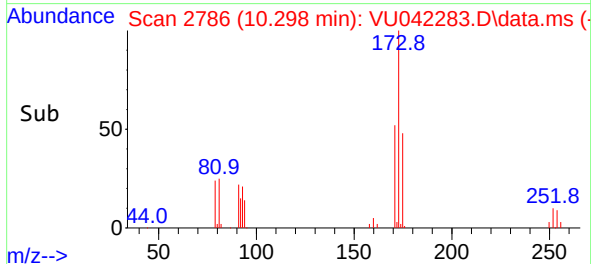
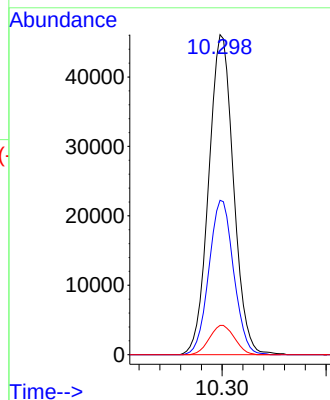
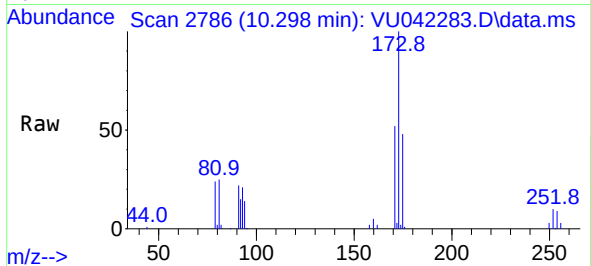


#59
Bromoform
Concen: 55.20 ug/L
RT: 10.298 min Scan# 2786
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Instrument :
MSVOA_U
ClientSampled :
X2Z60

Tgt Ion:173 Resp: 76357

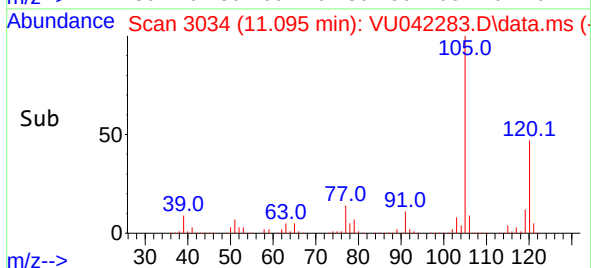
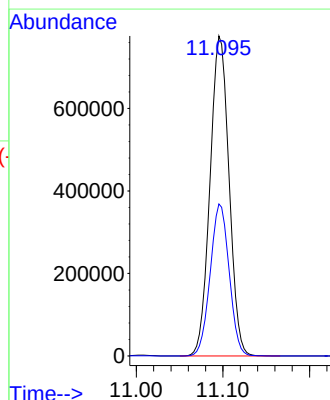
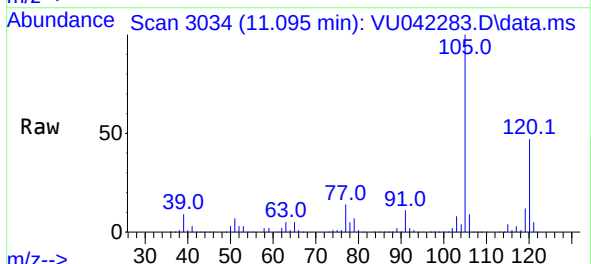
Ion	Ratio	Lower	Upper
173	100		
175	48.1	39.0	58.4
254	9.2	7.4	11.0

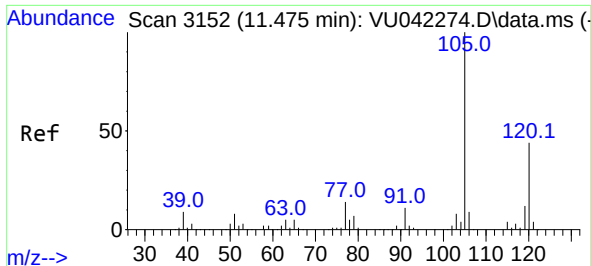


#62
1,3,5-Trimethylbenzene
Concen: 207.95 ug/L
RT: 11.095 min Scan# 3034
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion:105 Resp: 1181556

Ion	Ratio	Lower	Upper
105	100		
120	47.3	37.2	55.8

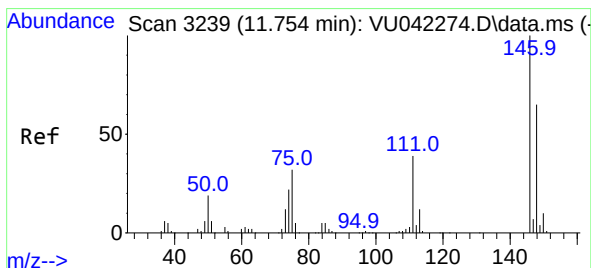
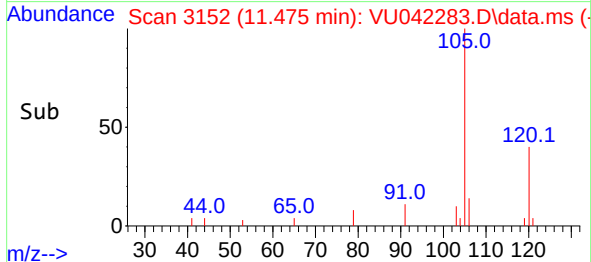
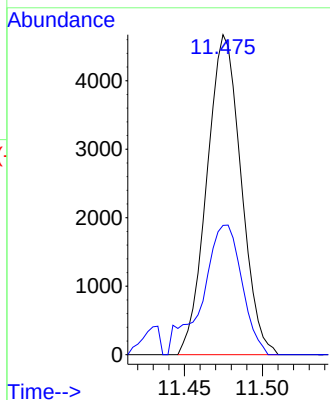
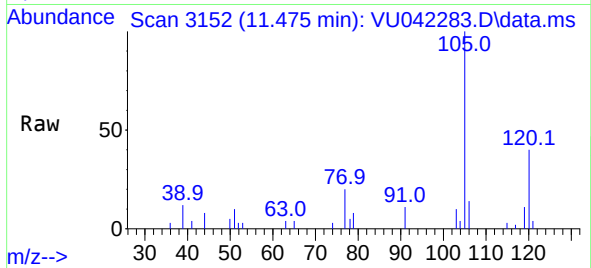




#63
1,2,4-Trimethylbenzene
Concen: 1.24 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

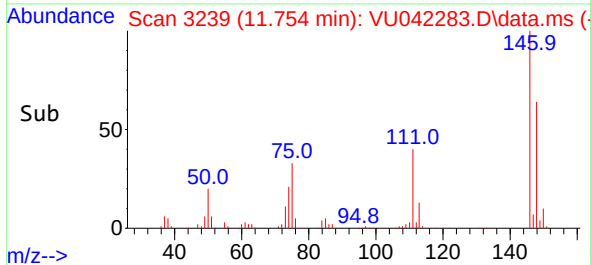
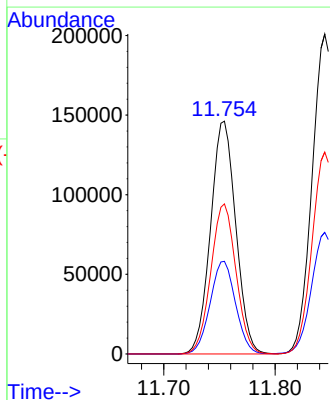
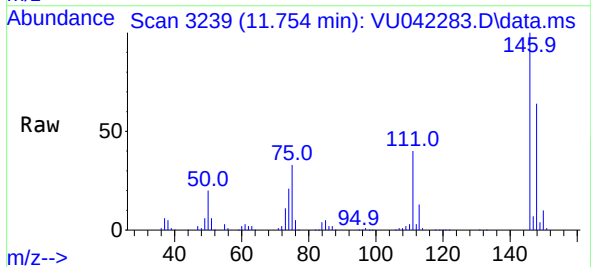
Instrument :
MSVOA_U
ClientSampled :
X2Z60

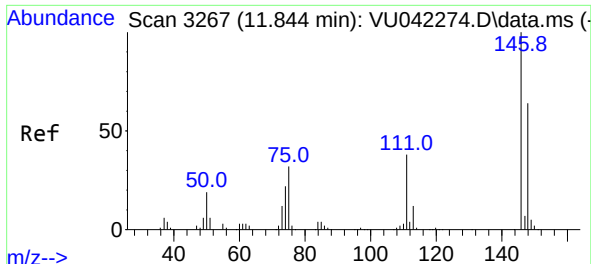
Tgt Ion:105 Resp: 7122
Ion Ratio Lower Upper
105 100
120 42.1 35.2 52.8



#64
1,3-Dichlorobenzene
Concen: 74.45 ug/L
RT: 11.754 min Scan# 3239
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion:146 Resp: 230525
Ion Ratio Lower Upper
146 100
111 39.8 27.6 51.2
148 64.5 45.4 84.2

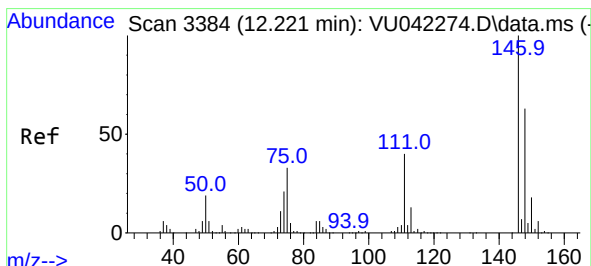
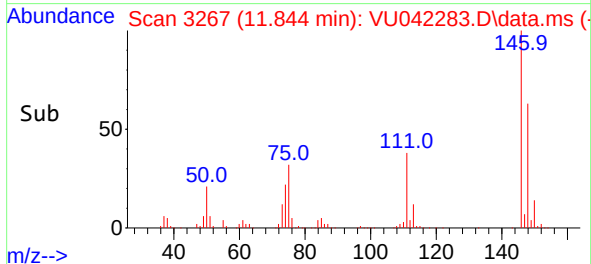
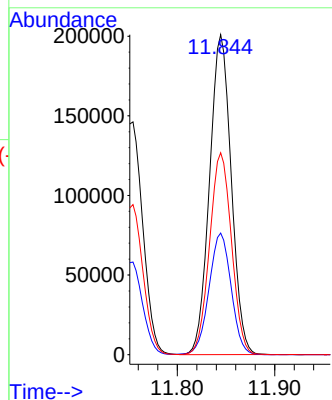
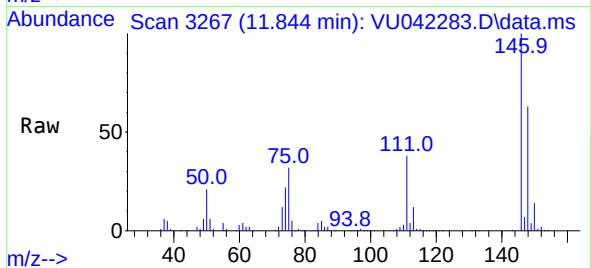




#65
1,4-Dichlorobenzene
Concen: 98.36 ug/L
RT: 11.844 min Scan# 3267
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

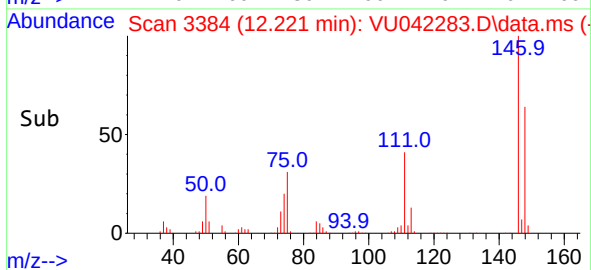
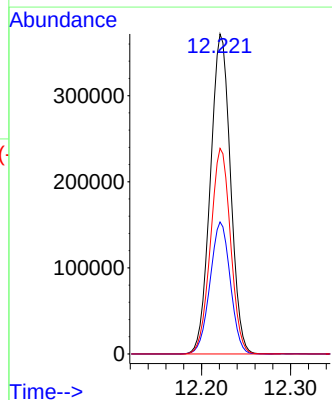
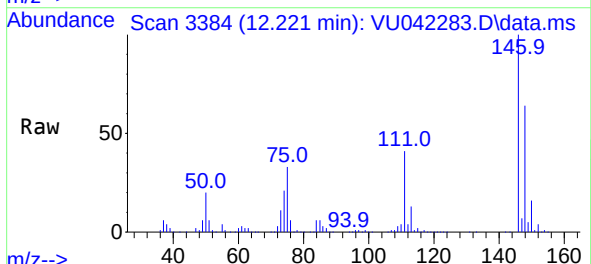
Instrument :
MSVOA_U
ClientSampleId :
X2Z60

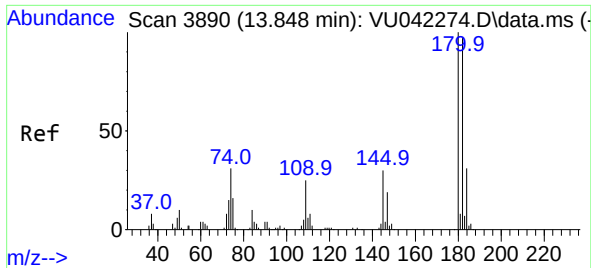
Tgt Ion:146 Resp: 310176
Ion Ratio Lower Upper
146 100
111 38.0 26.6 49.4
148 63.1 44.6 82.8



#67
1,2-Dichlorobenzene
Concen: 183.26 ug/L
RT: 12.221 min Scan# 3384
Delta R.T. 0.000 min
Lab File: VU042283.D
Acq: 05 Feb 2021 17:41

Tgt Ion:146 Resp: 583187
Ion Ratio Lower Upper
146 100
111 41.2 31.9 47.9
148 64.2 50.2 75.4





#70
 1,2,4-trichlorobenzene
 Concen: 186.19 ug/L
 RT: 13.851 min Scan# 3891
 Delta R.T. 0.003 min
 Lab File: VU042283.D
 Acq: 05 Feb 2021 17:41

Instrument :
 MSVOA_U
 ClientSampleId :
 X2Z60

Tgt Ion:	180	Resp:	372756
Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.2	115.8
145	28.9	23.7	35.5

