

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012621\
 Data File : VY003940.D
 Acq On : 26 Jan 2021 17:33
 Operator : SY/MD
 Sample : M1203-07
 Misc : 5.00g/10mL/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 X2Y83

Quant Time: Jan 27 05:22:46 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\SFAMYL012621SMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jan 26 14:06:12 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.697	114	223024	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.496	117	209857	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.428	152	113295	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.253	65	100989	22.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.80%
7) Chloroethane-d5	2.771	69	75250	21.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.64%
11) 1,1-Dichloroethene-d2	3.863	63	145494	20.23	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	80.92%
21) 2-Butanone-d5	6.899	46	51730	36.43	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	72.86%
24) Chloroform-d	7.490	84	135026	20.48	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	81.92%
26) 1,2-Dichloroethane-d4	8.149	65	84315	21.13	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	84.52%
32) Benzene-d6	8.118	84	279165	21.96	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.84%
36) 1,2-Dichloropropane-d6	9.130	67	84481	21.50	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	86.00%
41) Toluene-d8	10.185	98	261064	21.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	86.20%
43) trans-1,3-Dichloroprop...	10.441	79	42524	20.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	83.92%
47) 2-Hexanone-d5	10.788	63	40240	38.68	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	77.36%
56) 1,1,2,2-Tetrachloroeth...	12.562	84	70201	19.30	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	77.20%
66) 1,2-Dichlorobenzene-d4	13.727	152	92052	21.09	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	84.36%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.912	85	45928	10.63	ug/L	97
3) Chloromethane	2.125	50	65205	13.35	ug/L	99
5) Vinyl chloride	2.259	62	127776	27.08	ug/L	98
6) Bromomethane	2.662	94	40748	14.56	ug/L	93
8) Chloroethane	2.808	64	26841	9.07	ug/L	99
9) Trichlorofluoromethane	3.137	101	62504	10.86	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	3.918	101	67659	20.71	ug/L	98
12) 1,1-Dichloroethene	3.887	96	50394	15.98	ug/L #	53
15) Methyl Acetate	4.491	43	52551	20.79	ug/L	97
16) Methylene chloride	4.728	84	77454	19.77	ug/L	91
18) Methyl tert-butyl Ether	5.234	73	357765	38.17	ug/L #	95
22) 2-Butanone	6.996	43	142921	86.96	ug/L	93
25) Chloroform	7.521	83	114085	18.33	ug/L	97
29) Cyclohexane	7.795	56	109730	18.51	ug/L	94
33) Benzene	8.167	78	560421	41.66	ug/L	100
34) Trichloroethene	8.947	95	183112	51.15	ug/L	93
42) Toluene	10.246	91	747232	50.93	ug/L	100
45) 1,1,2-Trichloroethane	10.648	97	51182	18.75	ug/L	97
46) Tetrachloroethene	10.721	164	29770	10.07	ug/L	98

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 Quant Title : VOC Analysis
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

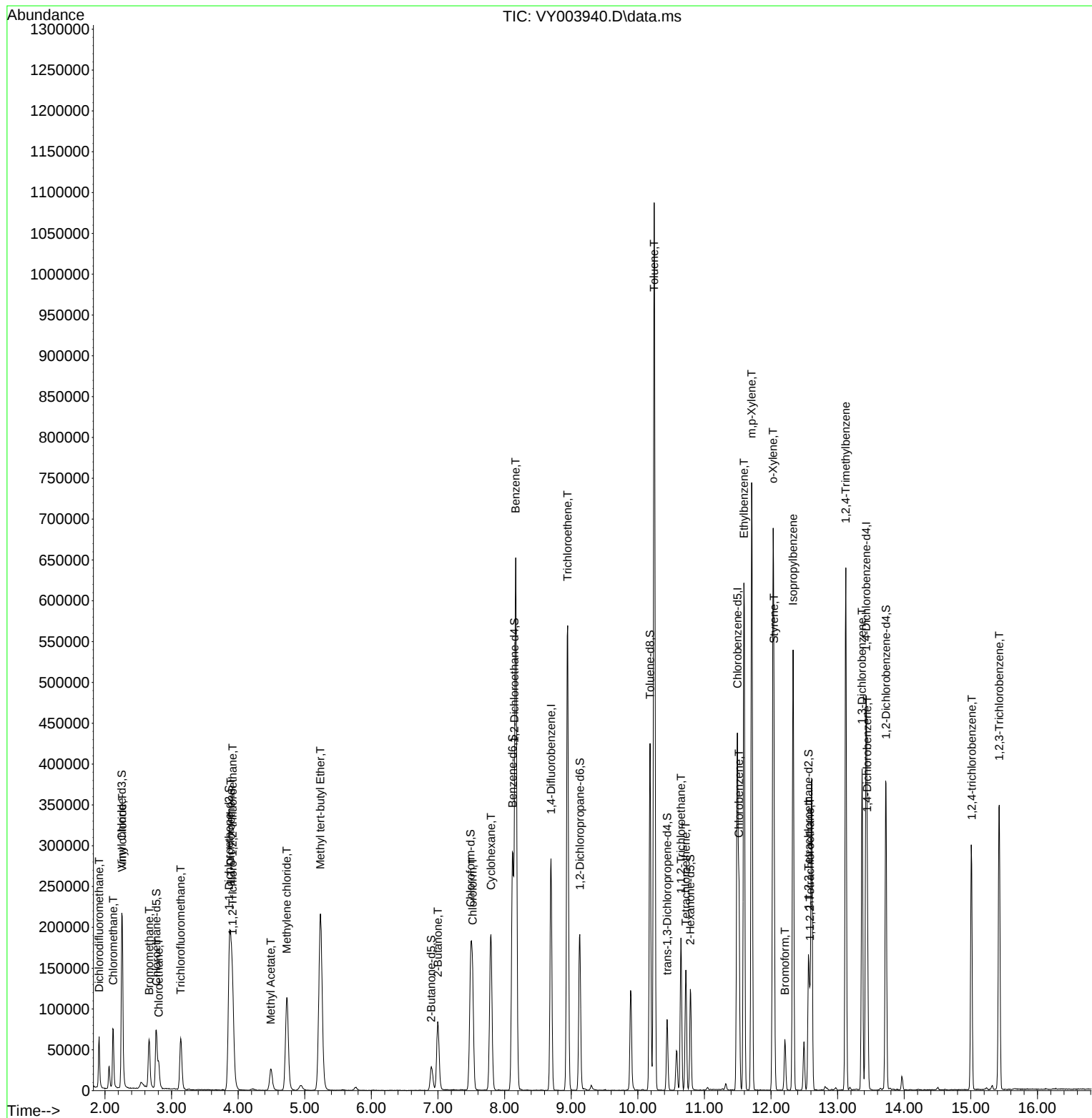
51) Chlorobenzene	11.520	112	112631	12.24	ug/L	95
52) Ethylbenzene	11.593	91	406885	24.81	ug/L	96
53) m,p-Xylene	11.709	106	183947	30.01	ug/L	84
54) o-Xylene	12.032	106	148139	25.26	ug/L	84
55) Styrene	12.044	104	103364	10.15	ug/L #	72
57) 1,1,2,2-Tetrachloroethane	12.587	83	37736	10.72	ug/L	94
59) Bromoform	12.209	173	25373	10.73	ug/L #	97
60) Isopropylbenzene	12.331	105	325325	20.10	ug/L	98
63) 1,2,4-Trimethylbenzene	13.123	105	323858	23.92	ug/L	97
64) 1,3-Dichlorobenzene	13.367	146	148542	19.85	ug/L	98
65) 1,4-Dichlorobenzene	13.446	146	73806	9.86	ug/L	97
70) 1,2,4-trichlorobenzene	15.013	180	89654	19.82	ug/L	98
72) 1,2,3-Trichlorobenzene	15.428	180	114210	29.04	ug/L	99

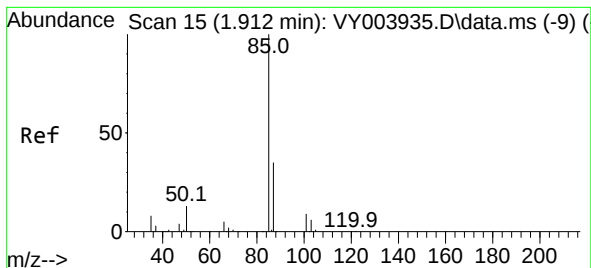
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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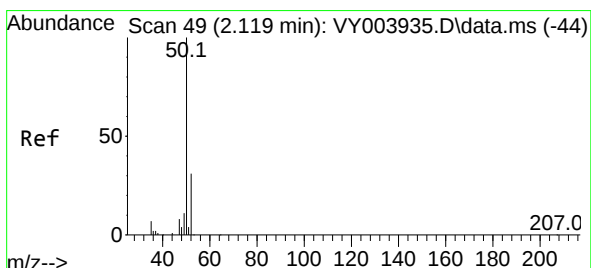
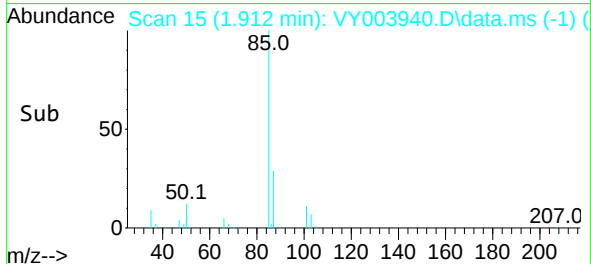
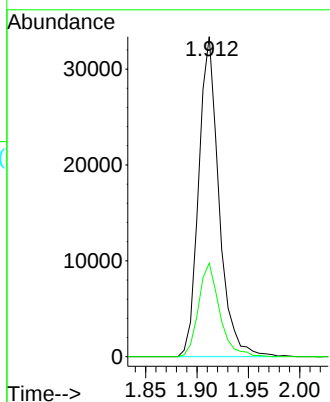
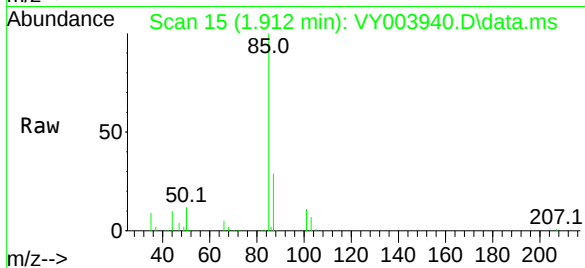




#2
Dichlorodifluoromethane
Concen: 10.63 ug/L
RT: 1.912 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

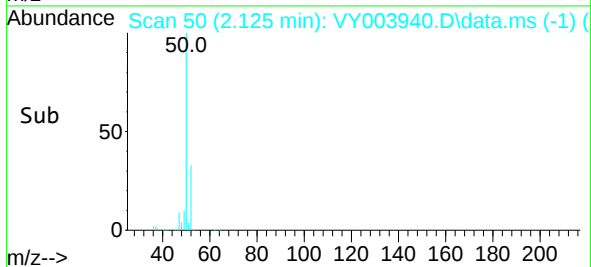
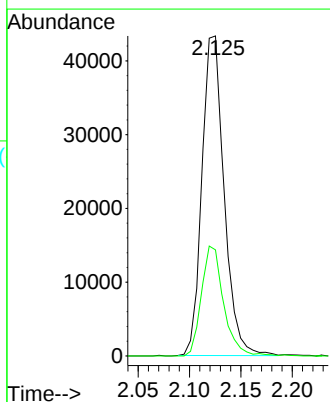
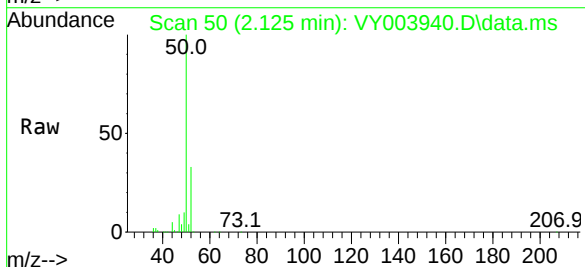
Instrument :
MSVOA_Y
ClientSampleId :
X2Y83

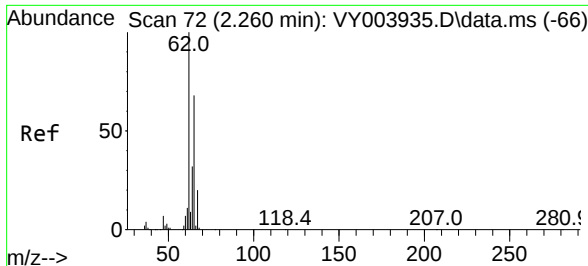
Tgt Ion: 85 Resp: 45928
Ion Ratio Lower Upper
85 100
87 30.1 25.4 38.2



#3
Chloromethane
Concen: 13.35 ug/L
RT: 2.125 min Scan# 50
Delta R.T. 0.006 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

Tgt Ion: 50 Resp: 65205
Ion Ratio Lower Upper
50 100
52 33.2 22.7 42.3

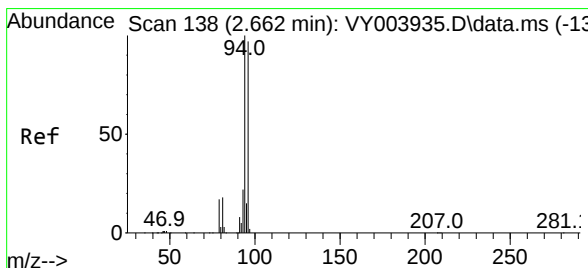
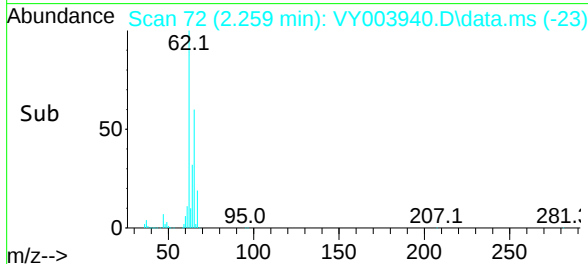
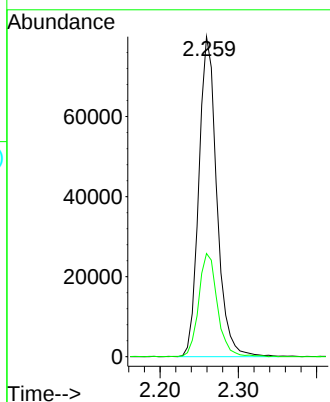
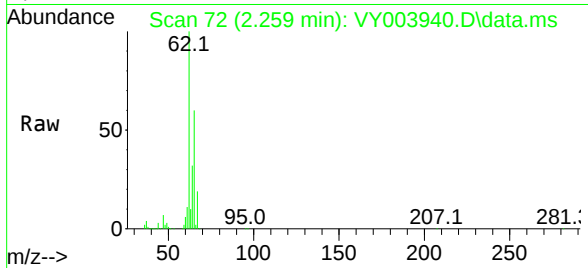




#5
 Vinyl chloride
 Concen: 27.08 ug/L
 RT: 2.259 min Scan# 72
 Delta R.T. -0.000 min
 Lab File: VY003940.D
 Acq: 26 Jan 2021 17:33

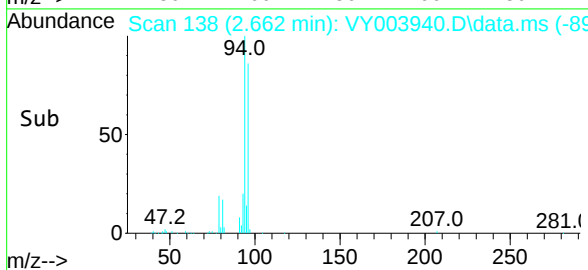
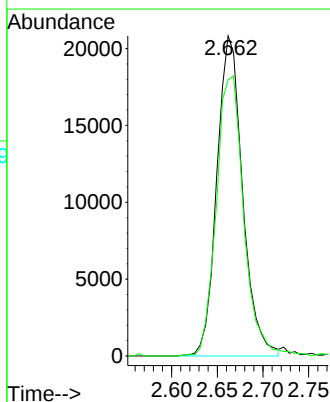
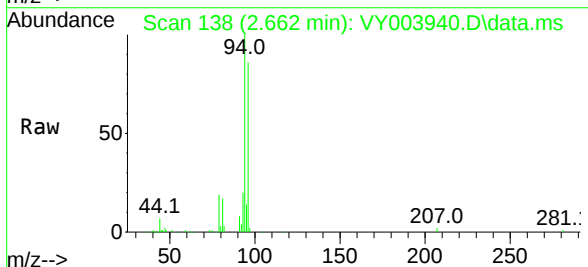
Instrument :
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 ClientSampleId :
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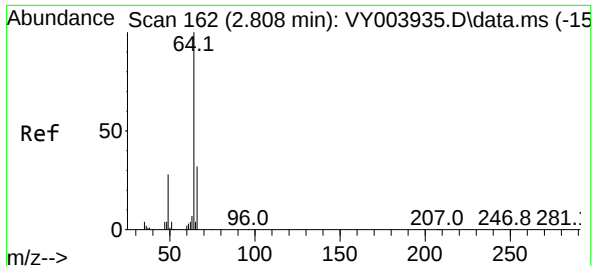
Tgt Ion: 62 Resp: 127776
 Ion Ratio Lower Upper
 62 100
 64 32.3 21.9 40.7



#6
 Bromomethane
 Concen: 14.56 ug/L
 RT: 2.662 min Scan# 138
 Delta R.T. -0.000 min
 Lab File: VY003940.D
 Acq: 26 Jan 2021 17:33

Tgt Ion: 94 Resp: 40748
 Ion Ratio Lower Upper
 94 100
 96 86.4 65.2 121.0

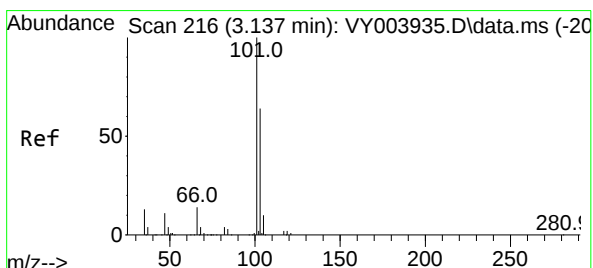
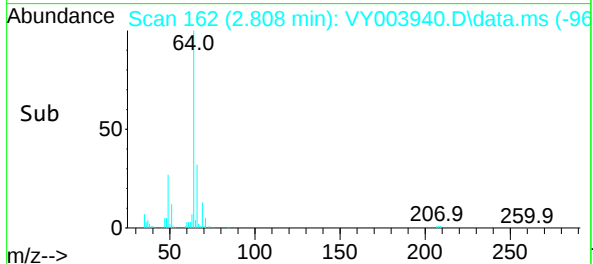
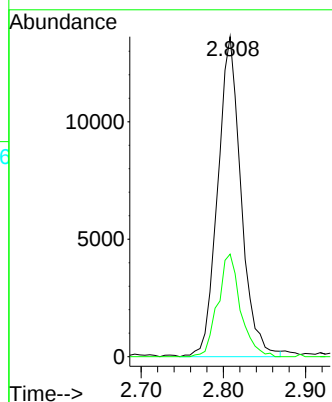
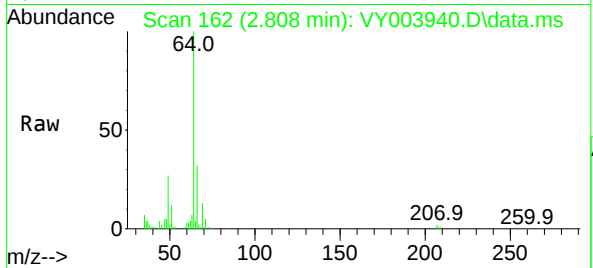




#8
Chloroethane
Concen: 9.07 ug/L
RT: 2.808 min Scan# 162
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

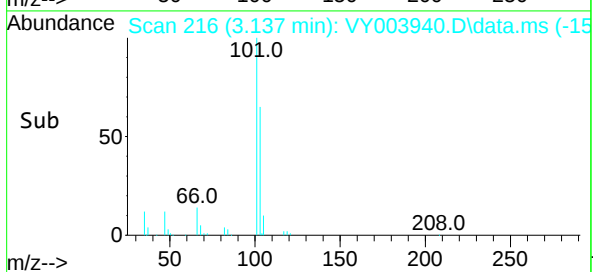
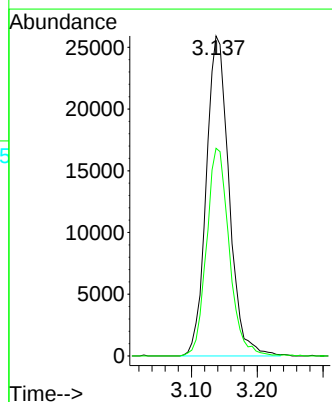
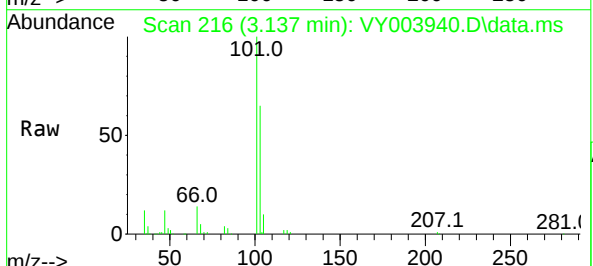
Instrument :
MSVOA_Y
ClientSampleId :
X2Y83

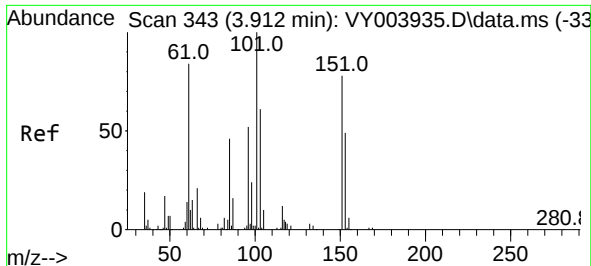
Tgt Ion: 64 Resp: 26841
Ion Ratio Lower Upper
64 100
66 32.0 22.2 41.2



#9
Trichlorofluoromethane
Concen: 10.86 ug/L
RT: 3.137 min Scan# 216
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

Tgt Ion: 101 Resp: 62504
Ion Ratio Lower Upper
101 100
103 64.5 51.9 77.9





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 20.71 ug/L

RT: 3.918 min Scan# 344

Delta R.T. 0.006 min

Lab File: VY003940.D

Acq: 26 Jan 2021 17:33

Instrument :

MSVOA_Y

ClientSampleId :

X2Y83

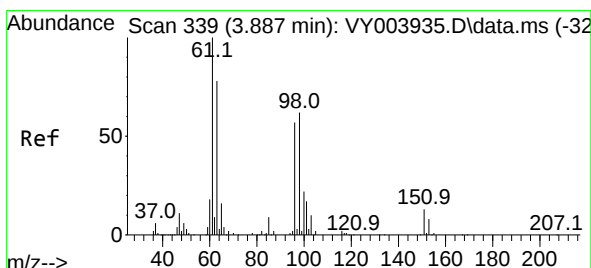
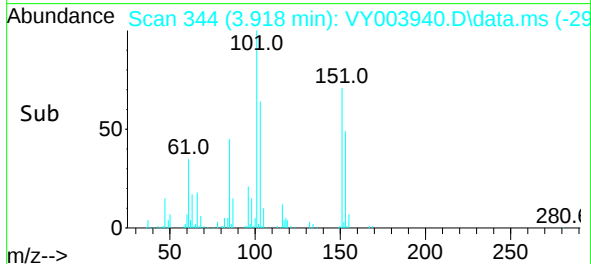
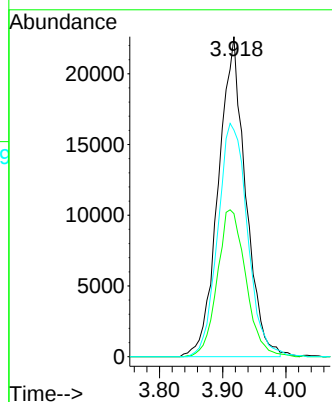
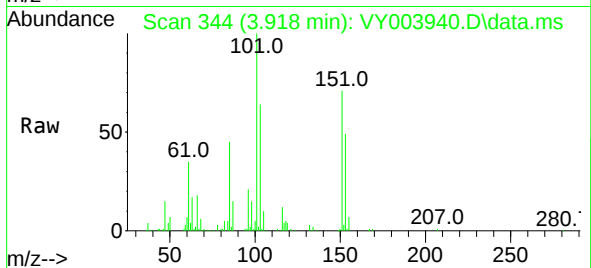
Tgt Ion:101 Resp: 67659

Ion Ratio Lower Upper

101 100

85 48.1 35.6 53.4

151 79.7 64.2 96.2



#12

1,1-Dichloroethene

Concen: 15.98 ug/L

RT: 3.887 min Scan# 339

Delta R.T. -0.000 min

Lab File: VY003940.D

Acq: 26 Jan 2021 17:33

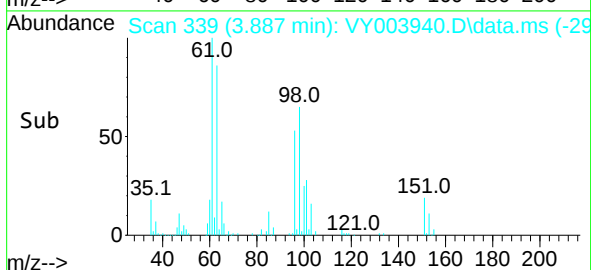
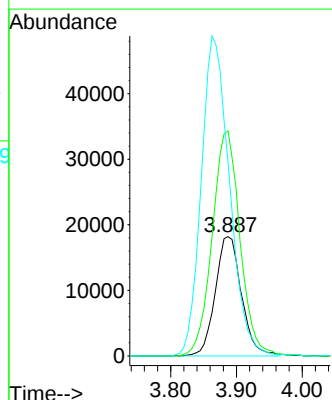
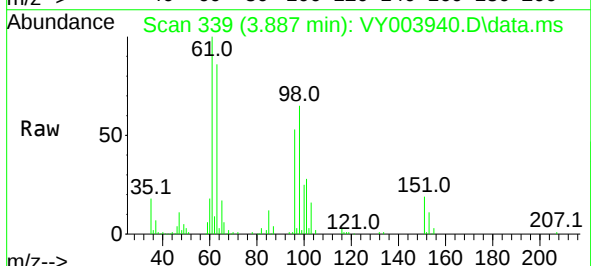
Tgt Ion: 96 Resp: 50394

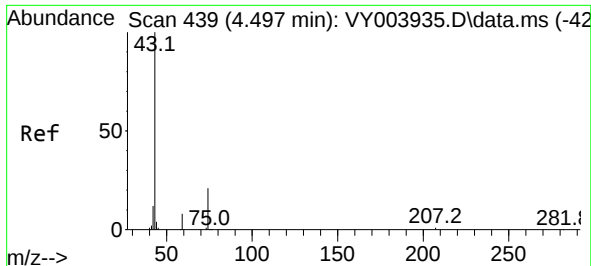
Ion Ratio Lower Upper

96 100

61 188.6 106.1 197.1

63 162.4 62.9 116.9#

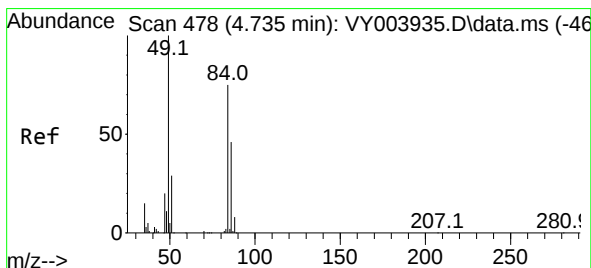
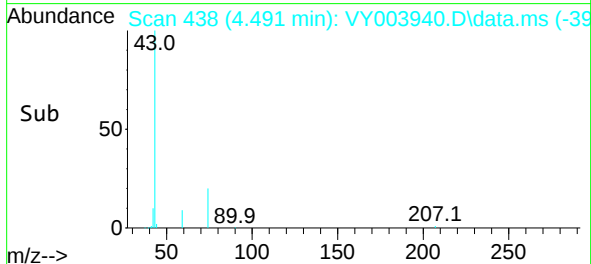
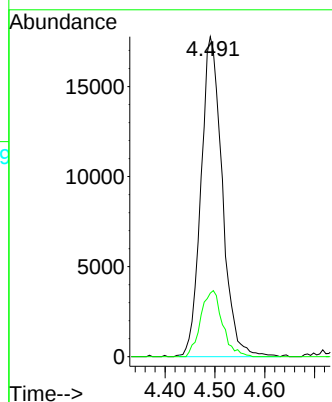
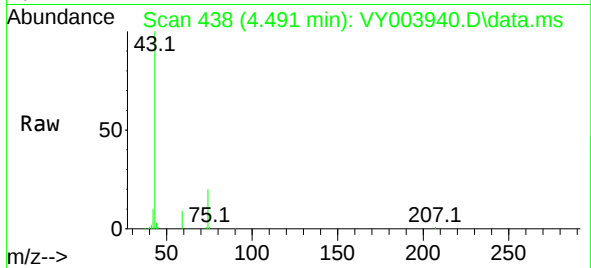




#15
Methyl Acetate
Concen: 20.79 ug/L
RT: 4.491 min Scan# 438
Delta R.T. -0.006 min
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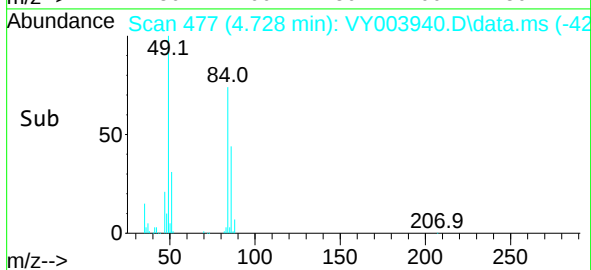
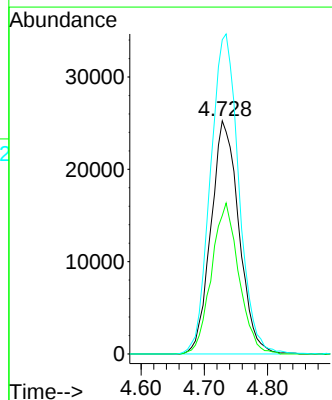
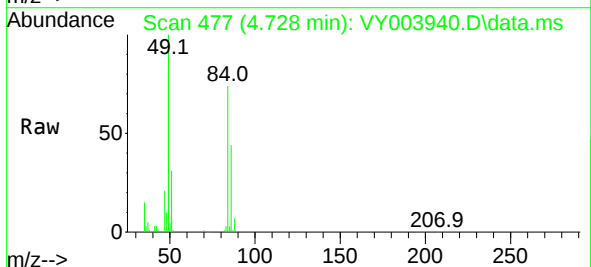
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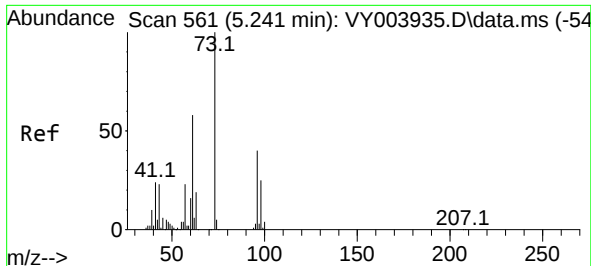
Tgt Ion: 43 Resp: 52551
Ion Ratio Lower Upper
43 100
74 21.2 18.2 27.2



#16
Methylene chloride
Concen: 19.77 ug/L
RT: 4.728 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

Tgt Ion: 84 Resp: 77454
Ion Ratio Lower Upper
84 100
86 59.4 43.3 80.3
49 134.8 85.3 158.5

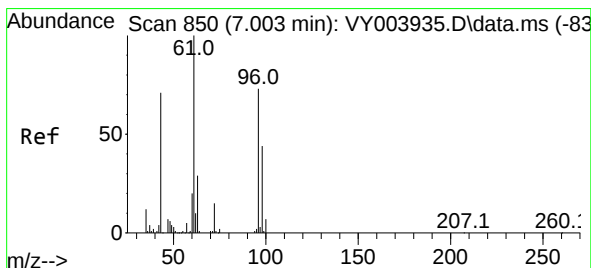
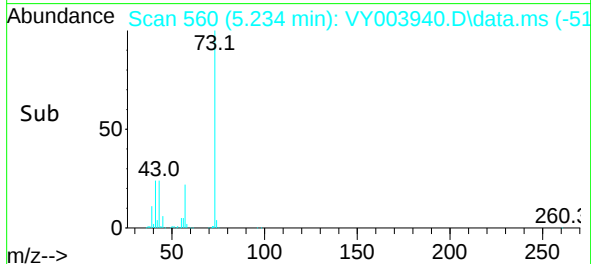
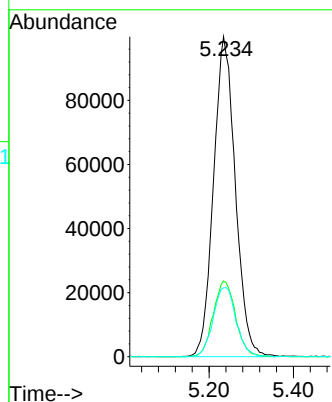
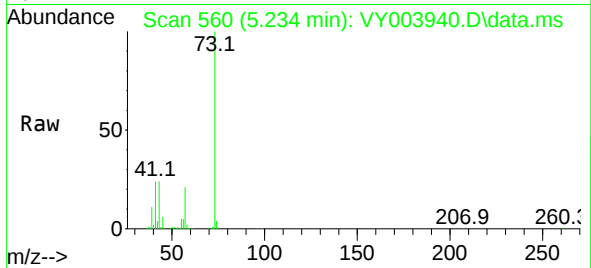




#18
Methyl tert-butyl Ether
Concen: 38.17 ug/L
RT: 5.234 min Scan# 560
Delta R.T. -0.006 min
Lab File: VY003940.D
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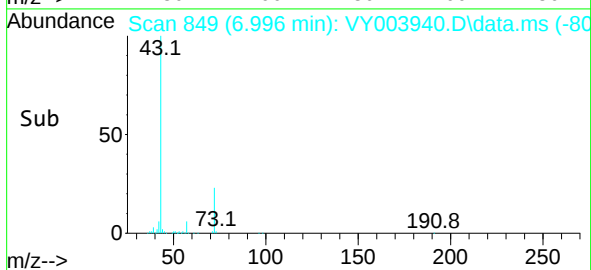
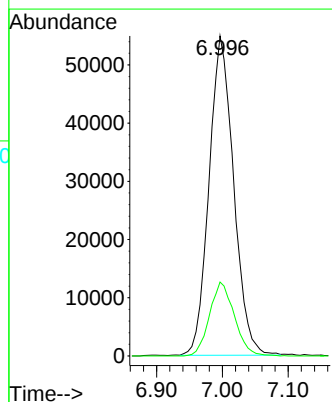
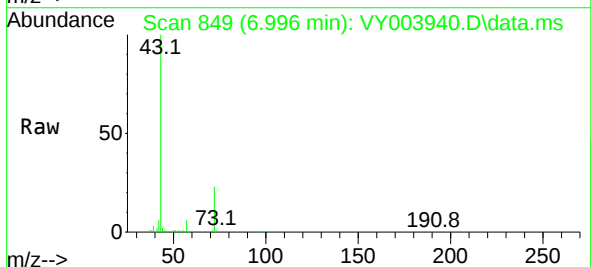
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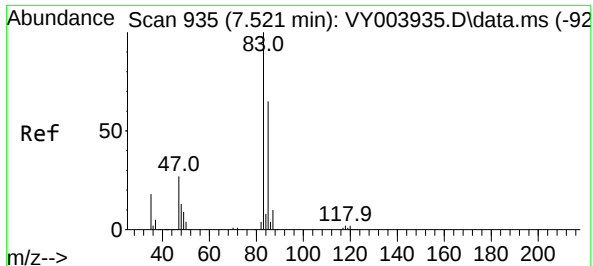
Tgt Ion: 73 Resp: 357765
Ion Ratio Lower Upper
73 100
43 24.2 15.2 22.8#
57 22.8 18.1 27.1



#22
2-Butanone
Concen: 86.96 ug/L
RT: 6.996 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

Tgt Ion: 43 Resp: 142921
Ion Ratio Lower Upper
43 100
72 23.3 13.5 40.5

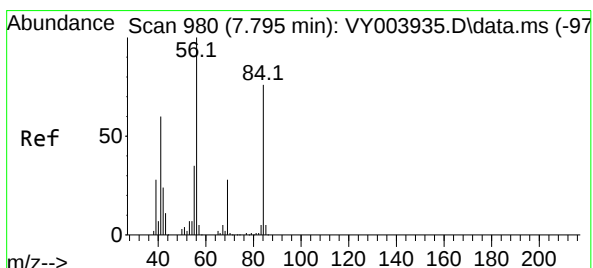
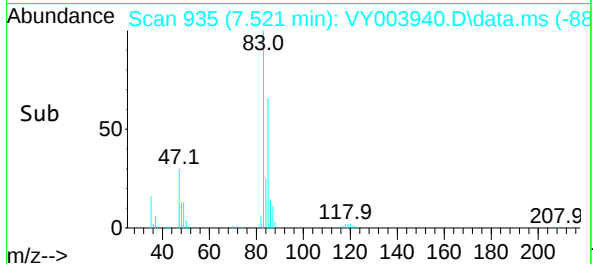
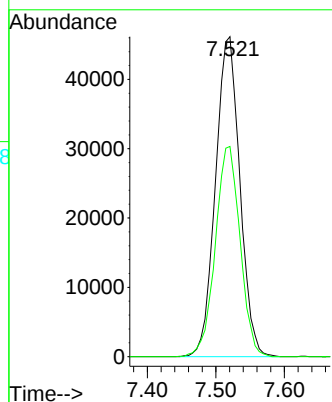
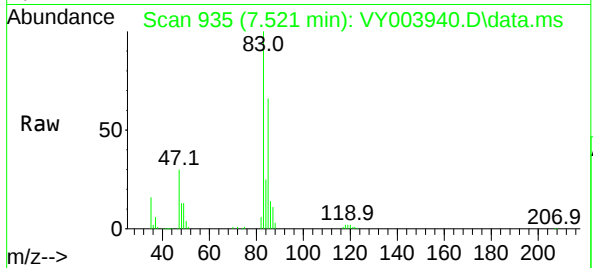




#25
Chloroform
Concen: 18.33 ug/L
RT: 7.521 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

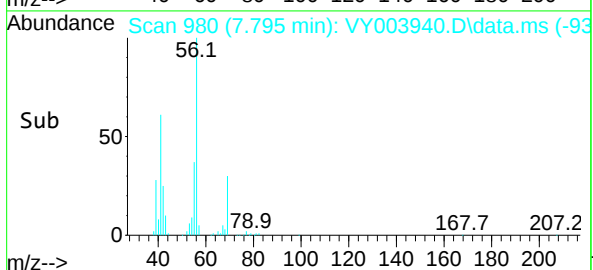
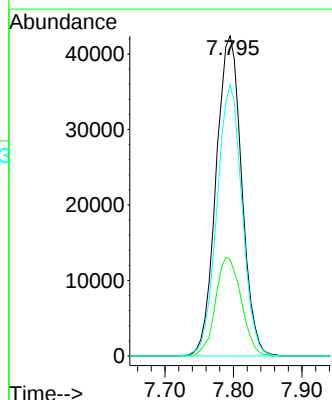
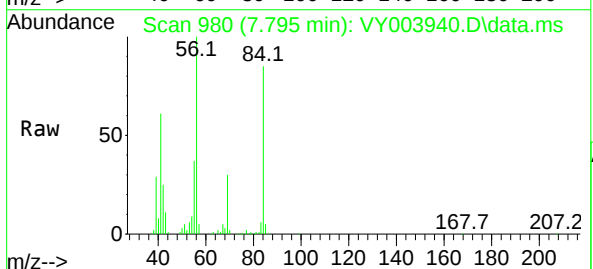
Instrument :
MSVOA_Y
ClientSampleId :
X2Y83

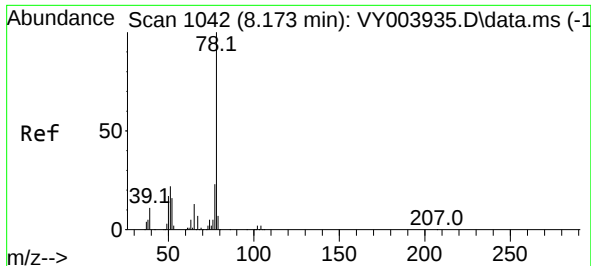
Tgt Ion: 83 Resp: 114085
Ion Ratio Lower Upper
83 100
85 65.7 44.4 82.4



#29
Cyclohexane
Concen: 18.51 ug/L
RT: 7.795 min Scan# 980
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

Tgt Ion: 56 Resp: 109730
Ion Ratio Lower Upper
56 100
69 30.9 23.9 35.9
84 83.4 71.9 107.9

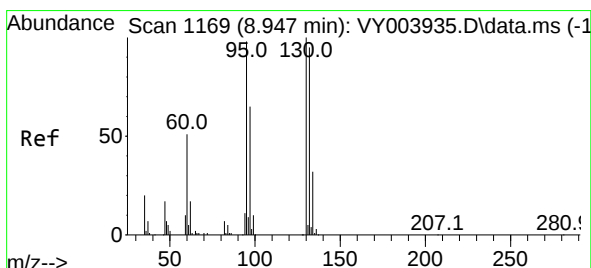
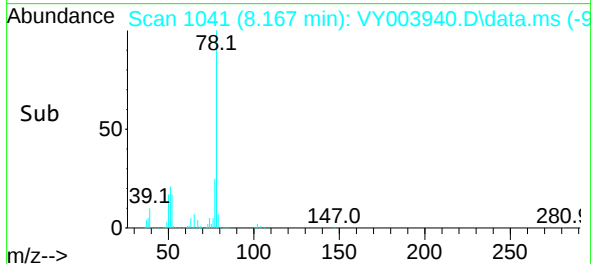
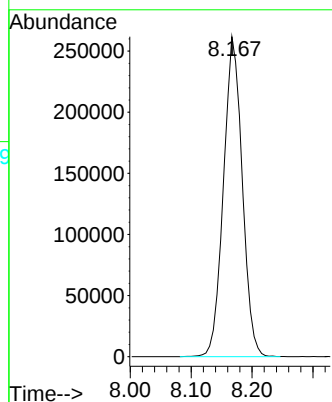
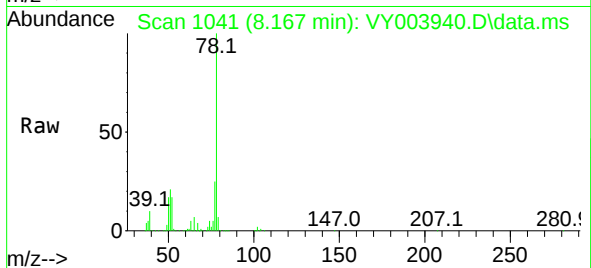




#33
Benzene
Concen: 41.66 ug/L
RT: 8.167 min Scan# 1041
Delta R.T. -0.006 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

Instrument :
MSVOA_Y
ClientSampleId :
X2Y83

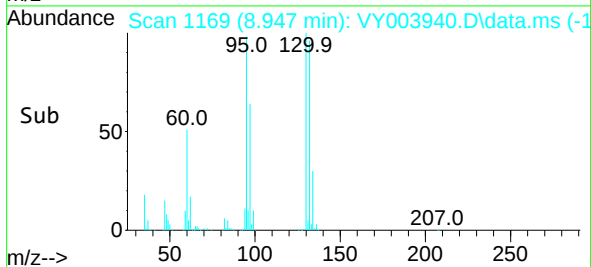
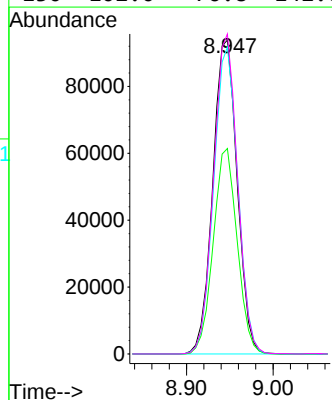
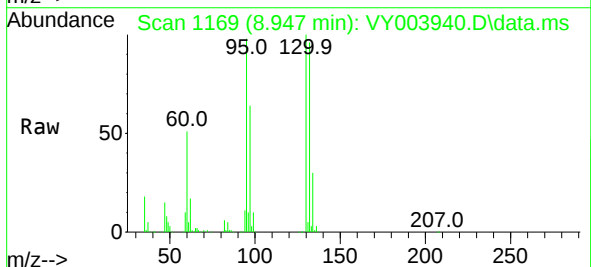
Tgt Ion: 78 Resp: 560421

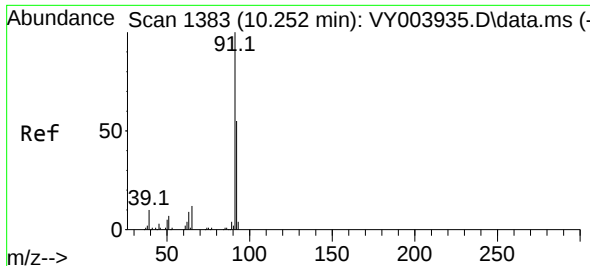


#34
Trichloroethene
Concen: 51.15 ug/L
RT: 8.947 min Scan# 1169
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

Tgt Ion: 95 Resp: 183112

Ion	Ratio	Lower	Upper
95	100		
97	65.5	44.7	83.1
132	97.9	74.7	138.7
130	102.0	76.8	142.6

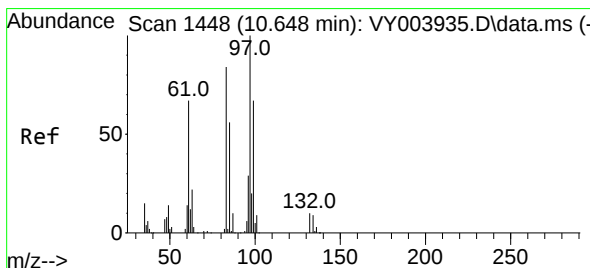
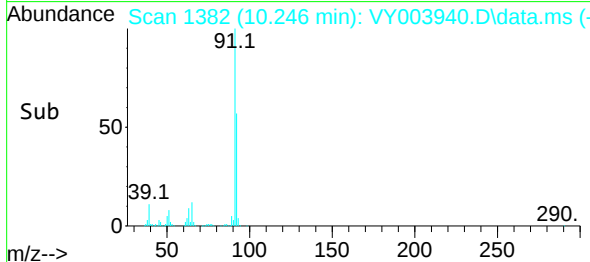
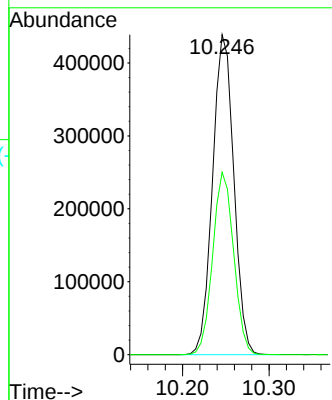
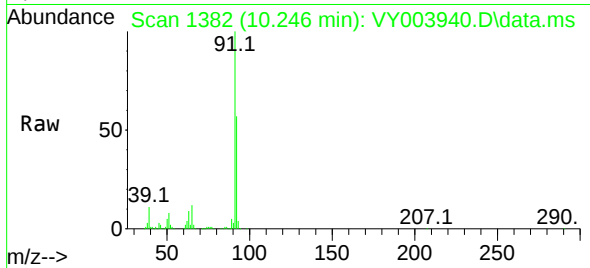




#42
Toluene
Concen: 50.93 ug/L
RT: 10.246 min Scan# 1382
Delta R.T. -0.006 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

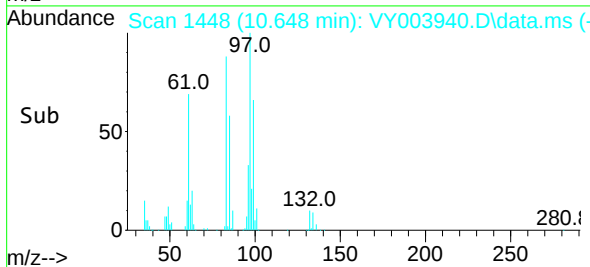
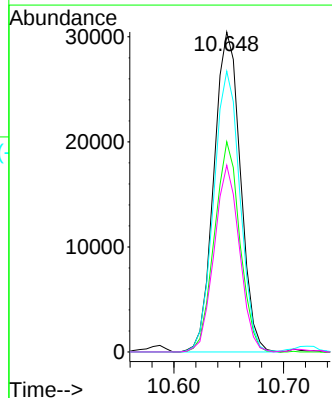
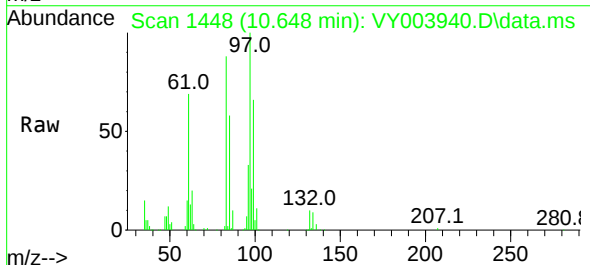
Instrument :
MSVOA_Y
ClientSampled :
X2Y83

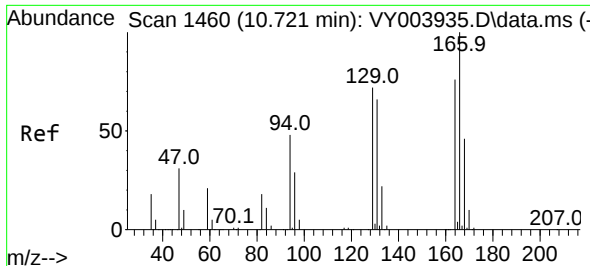
Tgt Ion: 91 Resp: 747232
Ion Ratio Lower Upper
91 100
92 57.0 40.1 74.5



#45
1,1,2-Trichloroethane
Concen: 18.75 ug/L
RT: 10.648 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

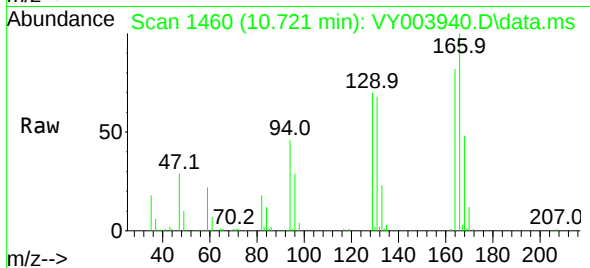
Tgt Ion: 97 Resp: 51182
Ion Ratio Lower Upper
97 100
99 65.7 45.1 83.9
83 87.7 59.7 110.9
85 58.4 39.0 72.4



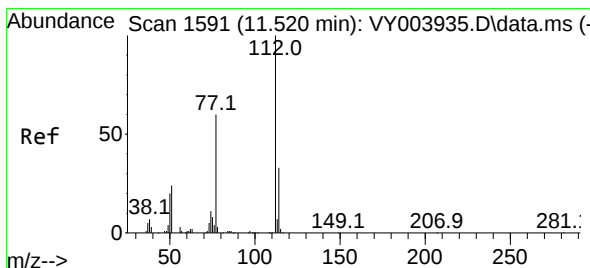
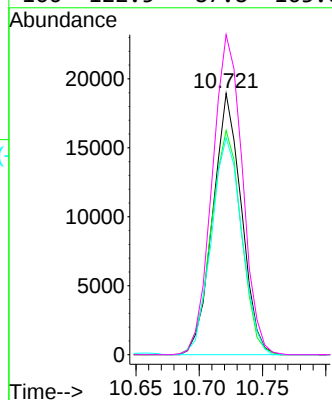
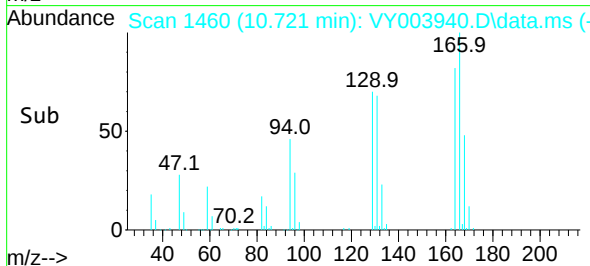


#46
Tetrachloroethene
Concen: 10.07 ug/L
RT: 10.721 min Scan# 1460
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

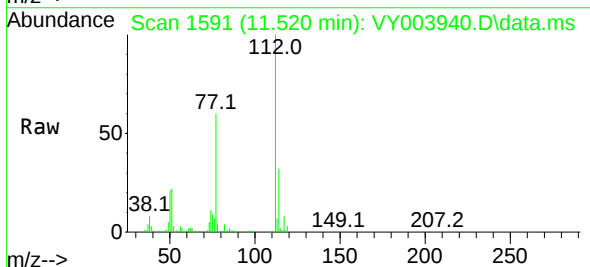
Instrument :
MSVOA_Y
ClientSampleId :
X2Y83



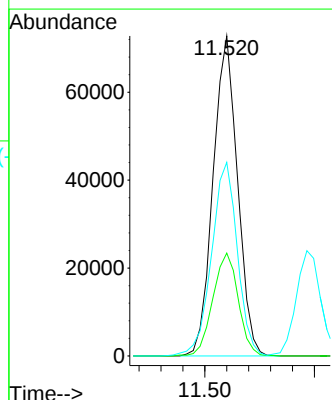
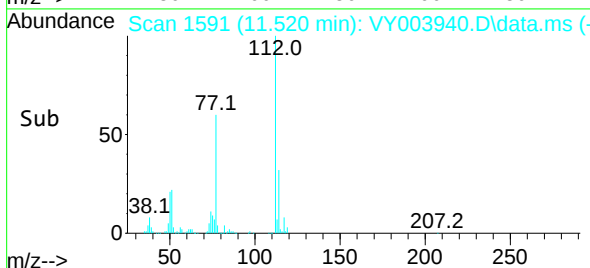
Tgt Ion:	164	Resp:	29770
Ion	Ratio	Lower	Upper
164	100		
129	85.8	58.9	109.5
131	83.1	59.0	109.6
166	122.5	87.8	163.0

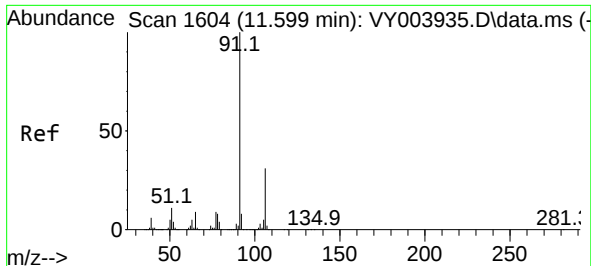


#51
Chlorobenzene
Concen: 12.24 ug/L
RT: 11.520 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33



Tgt Ion:	112	Resp:	112631
Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.2	41.2
77	60.5	43.8	65.6

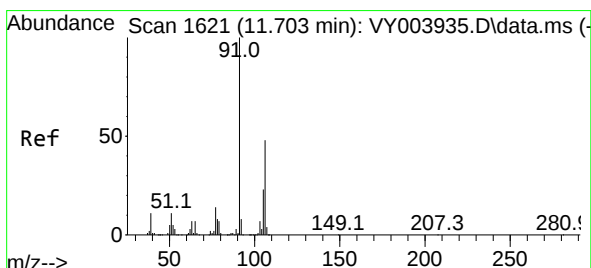
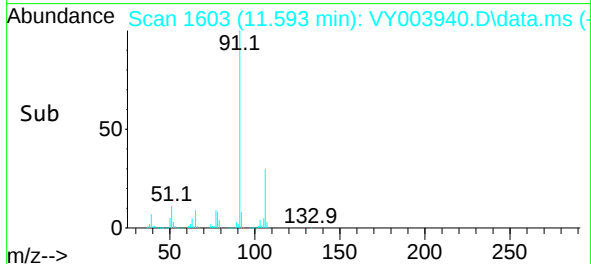
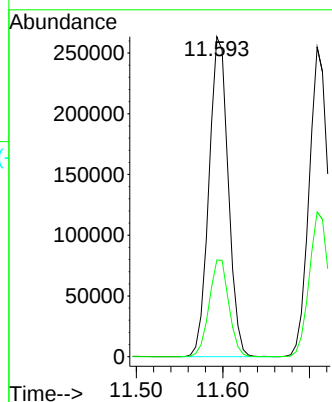
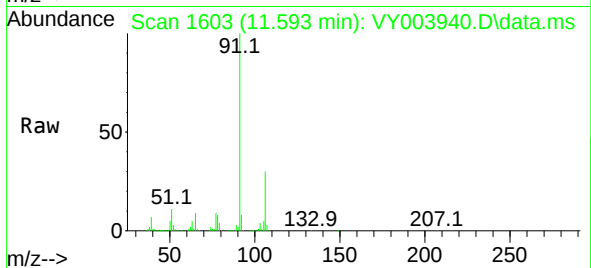




#52
Ethylbenzene
Concen: 24.81 ug/L
RT: 11.593 min Scan# 1603
Delta R.T. -0.006 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

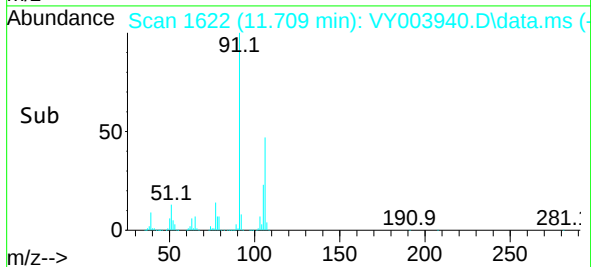
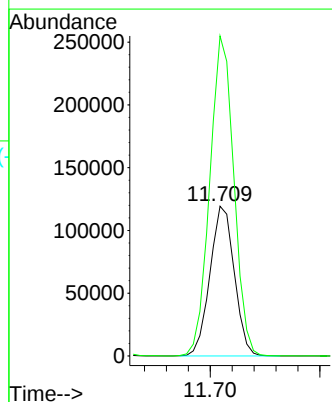
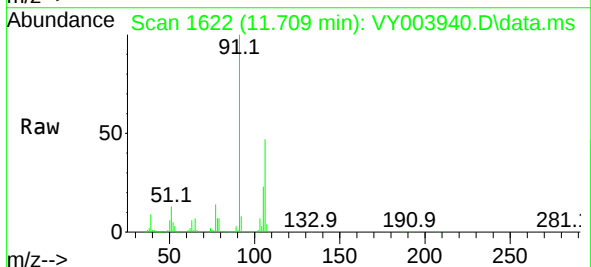
Instrument :
MSVOA_Y
ClientSampleId :
X2Y83

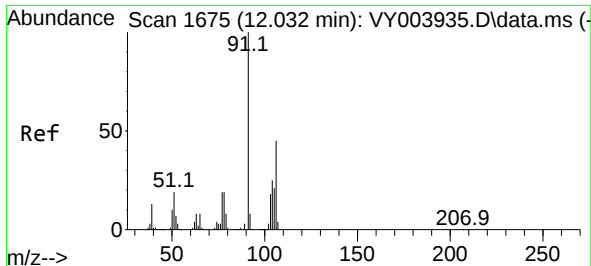
Tgt Ion: 91 Resp: 406885
Ion Ratio Lower Upper
91 100
106 30.2 22.8 42.4



#53
m,p-Xylene
Concen: 30.01 ug/L
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

Tgt Ion: 106 Resp: 183947
Ion Ratio Lower Upper
106 100
91 213.8 133.1 247.3

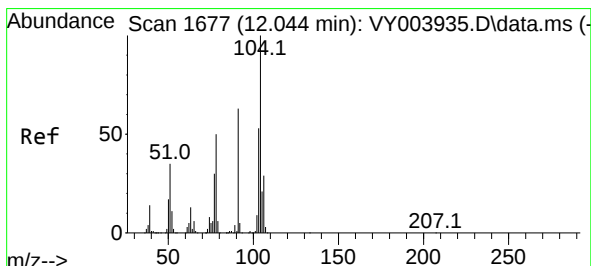
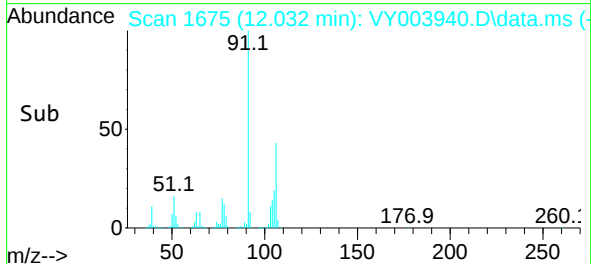
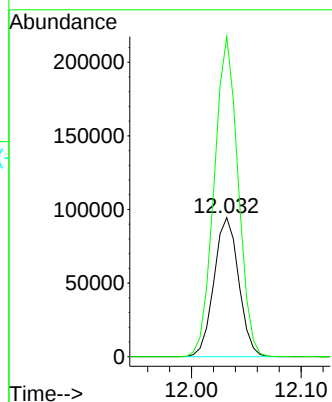
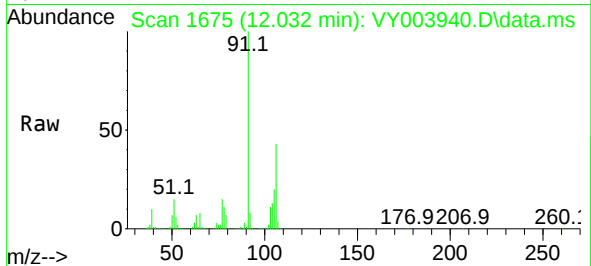




#54
o-Xylene
Concen: 25.26 ug/L
RT: 12.032 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

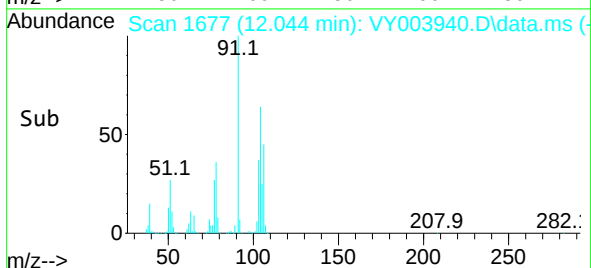
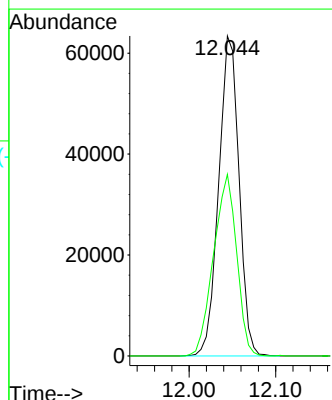
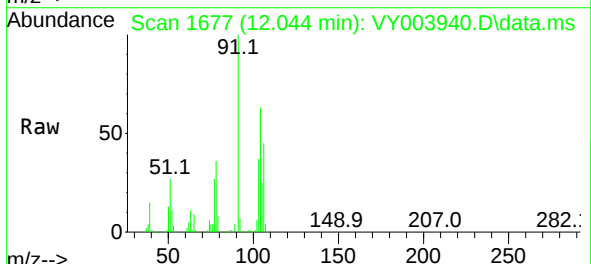
Instrument :
MSVOA_Y
ClientSampled :
X2Y83

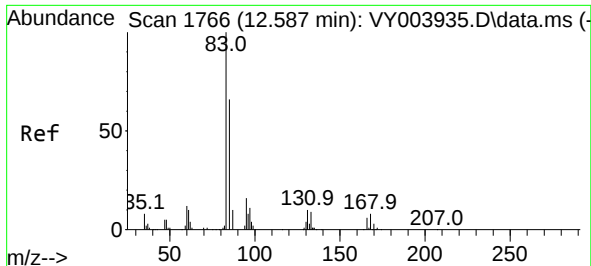
Tgt Ion:106 Resp: 148139
Ion Ratio Lower Upper
106 100
91 230.2 144.1 267.5



#55
Styrene
Concen: 10.15 ug/L
RT: 12.044 min Scan# 1677
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

Tgt Ion:104 Resp: 103364
Ion Ratio Lower Upper
104 100
78 56.8 27.6 51.4#

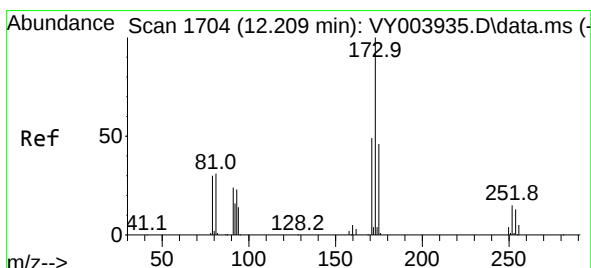
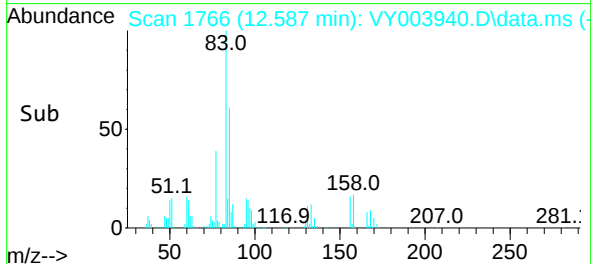
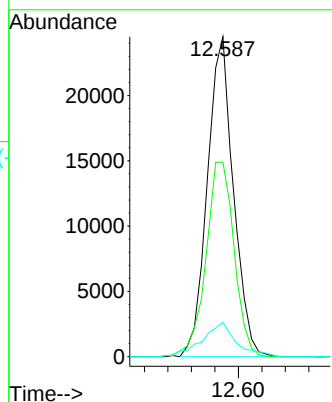
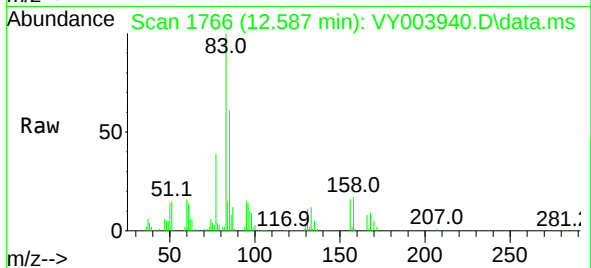




#57
1,1,2,2-Tetrachloroethane
Concen: 10.72 ug/L
RT: 12.587 min Scan# 1766
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

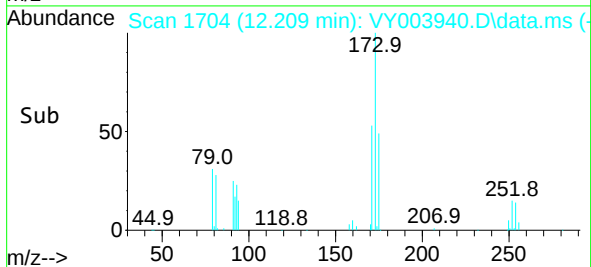
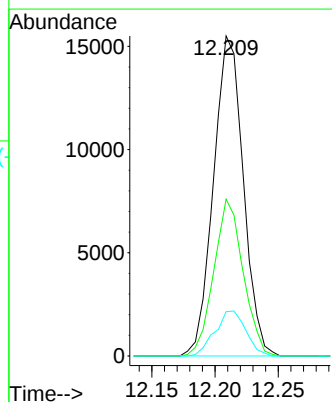
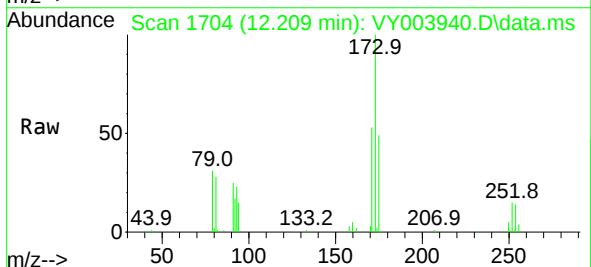
Instrument :
MSVOA_Y
ClientSampleId :
X2Y83

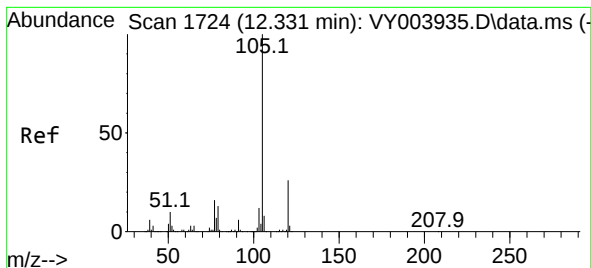
Tgt Ion: 83 Resp: 37736
Ion Ratio Lower Upper
83 100
85 60.8 46.1 85.7
131 10.8 8.1 12.1



#59
Bromoform
Concen: 10.73 ug/L
RT: 12.209 min Scan# 1704
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

Tgt Ion: 173 Resp: 25373
Ion Ratio Lower Upper
173 100
175 48.2 38.2 57.4
254 14.6 8.0 12.0#





#60

Isopropylbenzene

Concen: 20.10 ug/L

RT: 12.331 min Scan# 1724

Delta R.T. -0.000 min

Lab File: VY003940.D

Acq: 26 Jan 2021 17:33

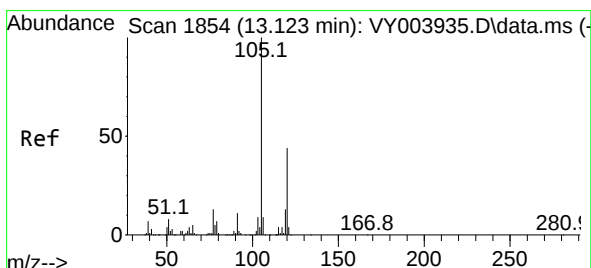
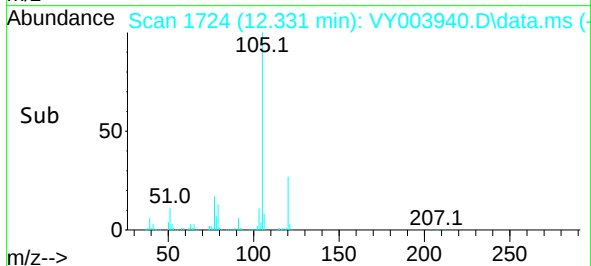
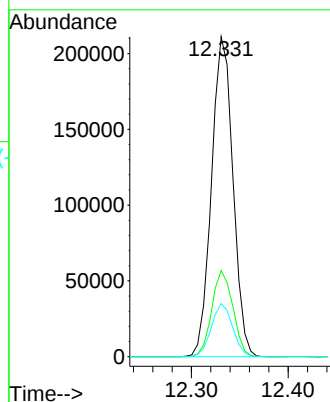
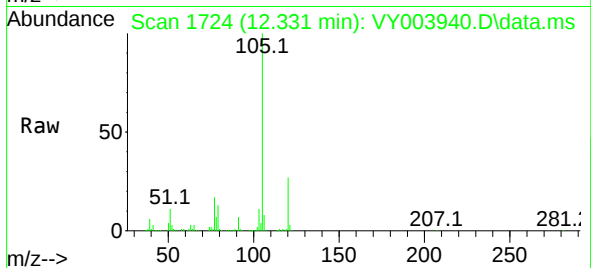
Tgt Ion:105 Resp: 325325

Ion Ratio Lower Upper

105 100

120 26.4 22.0 33.0

77 16.5 12.1 18.1



#63

1,2,4-Trimethylbenzene

Concen: 23.92 ug/L

RT: 13.123 min Scan# 1854

Delta R.T. -0.000 min

Lab File: VY003940.D

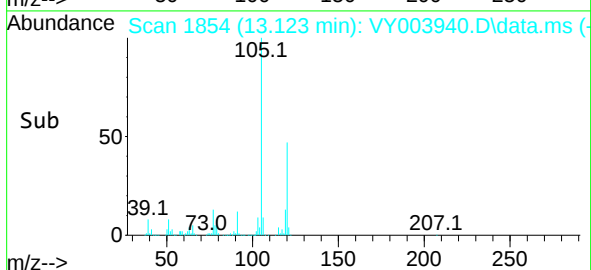
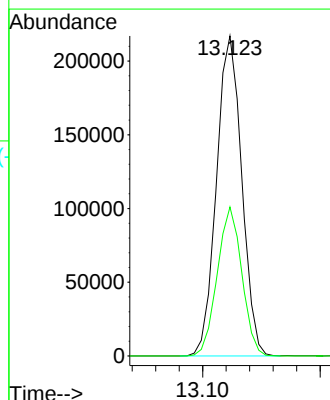
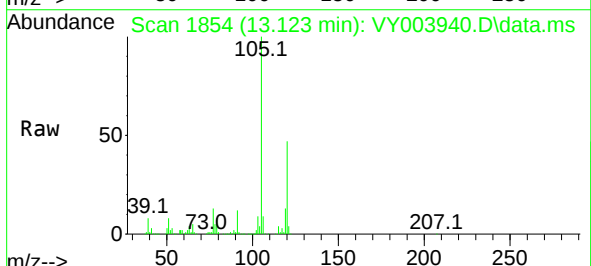
Acq: 26 Jan 2021 17:33

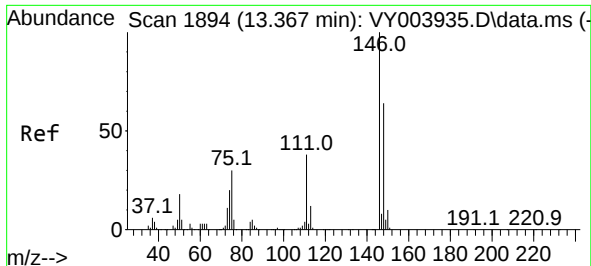
Tgt Ion:105 Resp: 323858

Ion Ratio Lower Upper

105 100

120 45.2 38.0 57.0

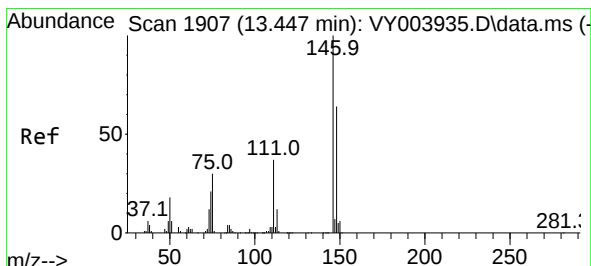
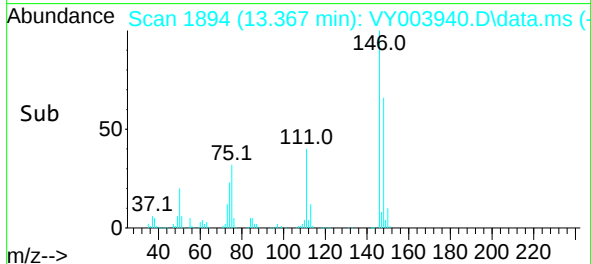
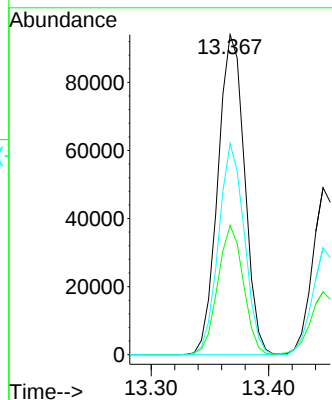
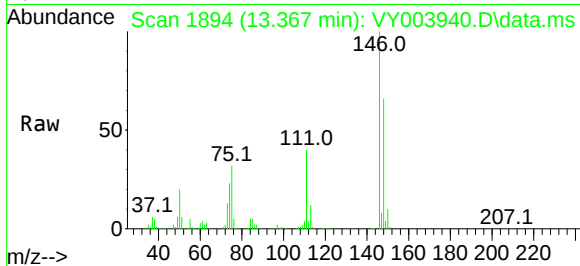




#64
1,3-Dichlorobenzene
Concen: 19.85 ug/L
RT: 13.367 min Scan# 1894
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

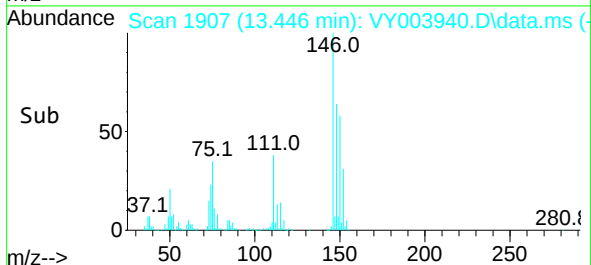
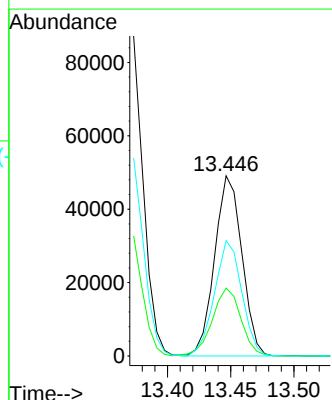
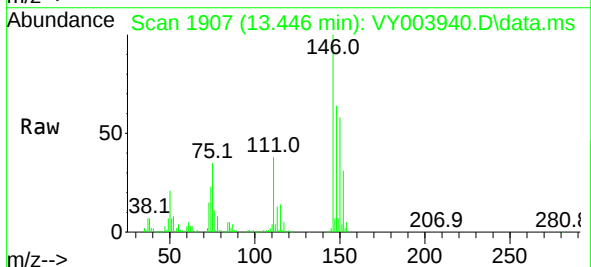
Instrument :
MSVOA_Y
ClientSampleId :
X2Y83

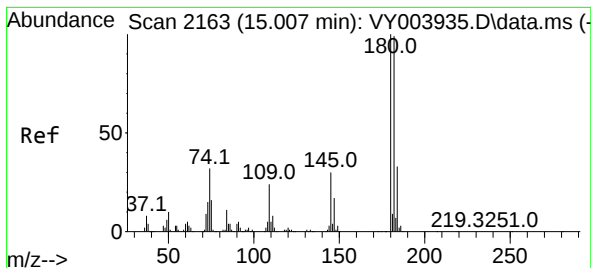
Tgt Ion:146 Resp: 148542
Ion Ratio Lower Upper
146 100
111 40.4 26.6 49.4
148 66.0 46.3 86.1



#65
1,4-Dichlorobenzene
Concen: 9.86 ug/L
RT: 13.446 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY003940.D
Acq: 26 Jan 2021 17:33

Tgt Ion:146 Resp: 73806
Ion Ratio Lower Upper
146 100
111 37.6 24.7 45.9
148 64.0 43.4 80.6





#70

1,2,4-trichlorobenzene

Concen: 19.82 ug/L

RT: 15.013 min Scan# 2164

Delta R.T. 0.006 min

Lab File: VY003940.D

Acq: 26 Jan 2021 17:33

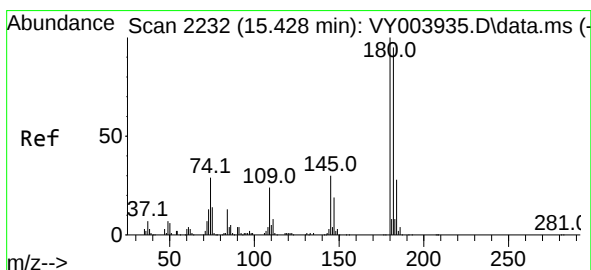
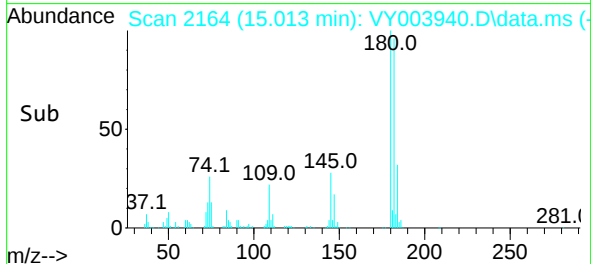
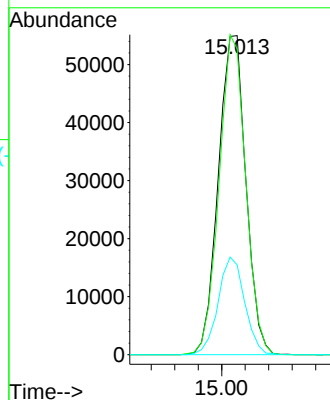
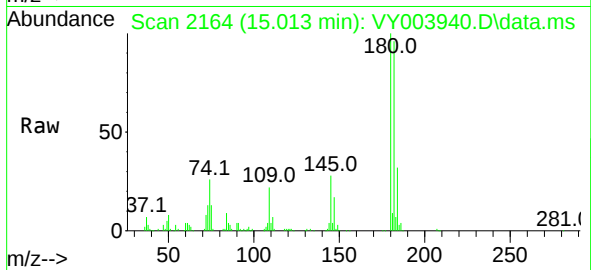
Tgt Ion:180 Resp: 89654

Ion Ratio Lower Upper

180 100

182 96.6 76.1 114.1

145 29.4 22.8 34.2



#72

1,2,3-Trichlorobenzene

Concen: 29.04 ug/L

RT: 15.428 min Scan# 2232

Delta R.T. -0.000 min

Lab File: VY003940.D

Acq: 26 Jan 2021 17:33

Tgt Ion:180 Resp: 114210

Ion Ratio Lower Upper

180 100

182 96.0 76.2 114.4

145 30.6 23.6 35.4

