

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW052821\
 Data File : VW021450.D
 Acq On : 28 May 2021 12:40
 Operator : SY/MD
 Sample : M2558-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 00:51:06 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM052721WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat May 29 00:49:04 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	511780	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	478538	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	279598	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	142016	42.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.30%
7) Chloroethane-d5	1.568	69	110424	44.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.10%
11) 1,1-Dichloroethene-d2	2.105	63	187021	32.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.96%
21) 2-Butanone-d5	3.886	46	232579	96.26	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.26%
24) Chloroform-d	4.346	84	305287	45.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.02%
26) 1,2-Dichloroethane-d4	5.031	65	181797	47.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.12%
32) Benzene-d6	5.047	84	614184	45.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.76%
36) 1,2-Dichloropropane-d6	6.069	67	191833	46.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.80%
41) Toluene-d8	7.317	98	587595	46.07	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.14%
43) trans-1,3-Dichloroprop...	7.622	79	100443	45.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.80%
47) 2-Hexanone-d5	8.088	63	186317	98.15	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.15%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	269039	46.88	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.76%
66) 1,2-Dichlorobenzene-d4	11.625	152	262385	45.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.28%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.310	62	380705	104.97	ug/L	100
8) Chloroethane	1.584	64	133340	64.66	ug/L	100
9) Trichlorofluoromethane	1.748	101	286259	53.21	ug/L	100
13) Acetone	2.172	43	5520	2.66	ug/L #	96
17) trans-1,2-Dichloroethene	2.757	96	188733	55.08	ug/L	99
18) Methyl tert-butyl Ether	2.764	73	986689	90.82	ug/L	100
20) cis-1,2-Dichloroethene	3.912	96	88224	23.01	ug/L	97
25) Chloroform	4.375	83	177852	28.30	ug/L	97
27) 1,2-Dichloroethane	5.130	62	177650	40.92	ug/L	99
30) 1,1,1-Trichloroethane	4.606	97	279534	47.32	ug/L	99
31) Carbon tetrachloride	4.609	117	38336	7.15	ug/L	100
33) Benzene	5.098	78	916337	66.90	ug/L	100
34) Trichloroethene	5.912	95	323889	87.00	ug/L	99
37) 1,2-Dichloropropane	6.172	63	168649	48.29	ug/L	99
42) Toluene	7.387	91	1458867	96.01	ug/L	100
44) trans-1,3-Dichloropropene	7.619	75	3797	0.68	ug/L	84
46) Tetrachloroethene	7.976	164	233030	68.08	ug/L	98
48) 2-Hexanone	8.140	43	542199	149.30	ug/L	100
49) Dibromochloromethane	8.246	129	80728	18.19	ug/L	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052821\
 Data File : VV021450.D
 Acq On : 28 May 2021 12:40
 Operator : SY/MD
 Sample : M2558-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 00:51:06 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM052721WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat May 29 00:49:04 2021
 Response via : Initial Calibration

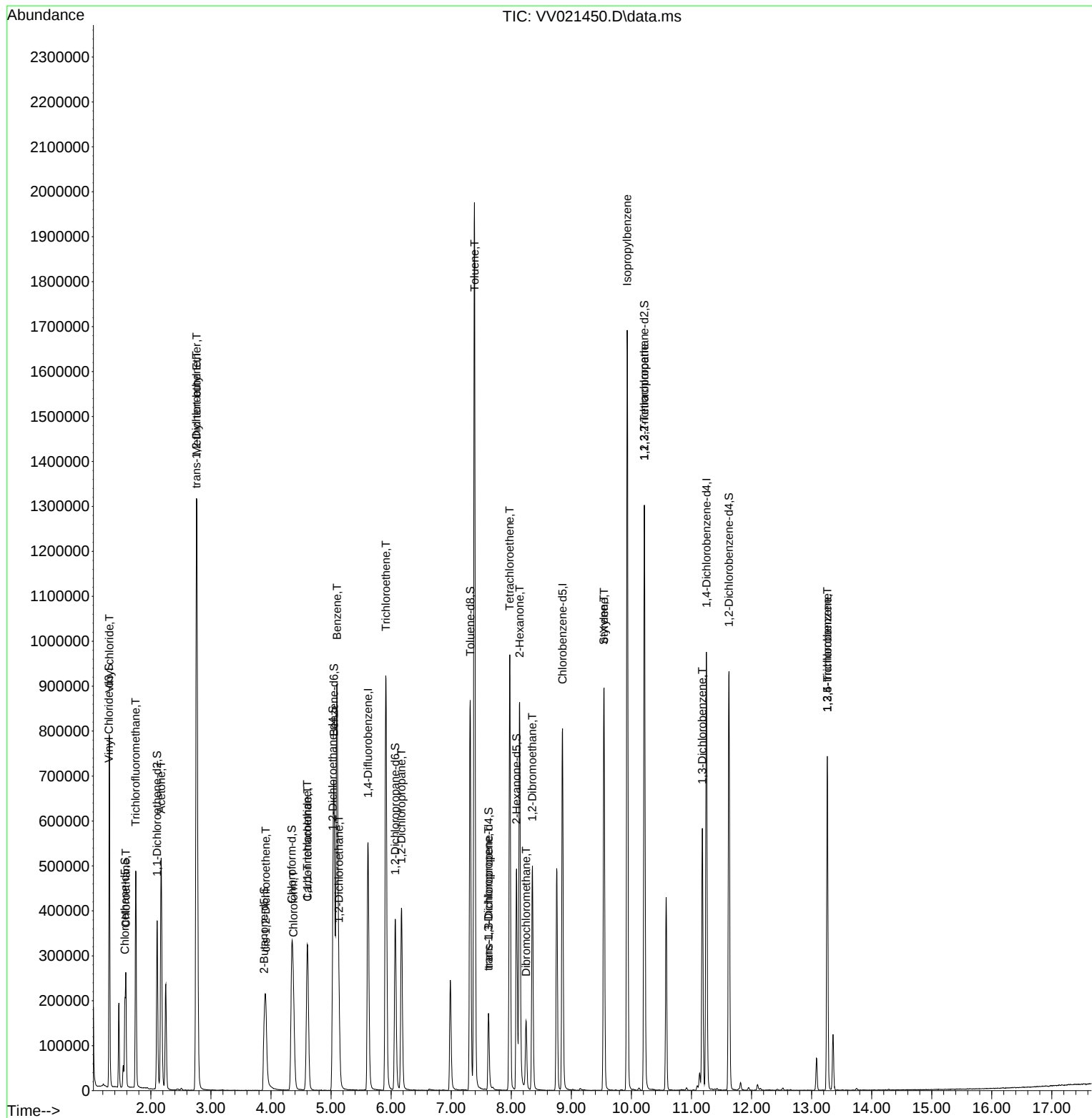
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dibromoethane	8.352	107	330945	84.83	ug/L	99
54) o-Xylene	9.545	106	247366	39.07	ug/L	98
55) Styrene	9.542	104	12353	1.13	ug/L #	1
60) Isopropylbenzene	9.931	105	1119926	64.64	ug/L	100
61) 1,2,3-Trichloropropane	10.217	75	23611	5.37	ug/L #	1
64) 1,3-Dichlorobenzene	11.181	146	252751	28.88	ug/L	99
69) 1,3,5-Trichlorobenzene	13.262	180	241463	32.71	ug/L	99
70) 1,2,4-trichlorobenzene	13.262	180	241463	36.61	ug/L	99

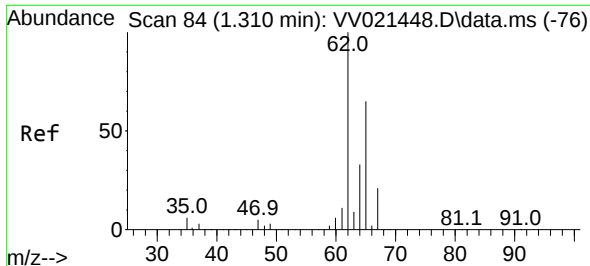
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052821\
Data File : VV021450.D
Acq On : 28 May 2021 12:40
Operator : SY/MD
Sample : M2558-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: May 29 00:51:06 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM052721WMA.M
Quant Title : VOC Analysis
QLast Update : Sat May 29 00:49:04 2021
Response via : Initial Calibration

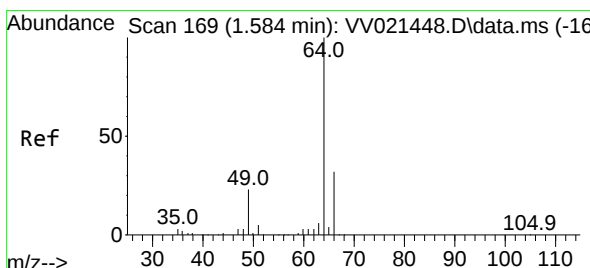
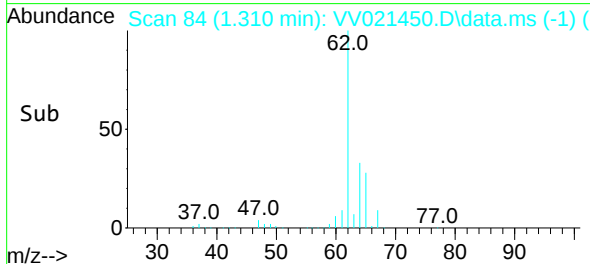
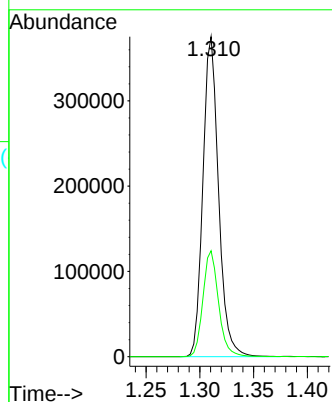
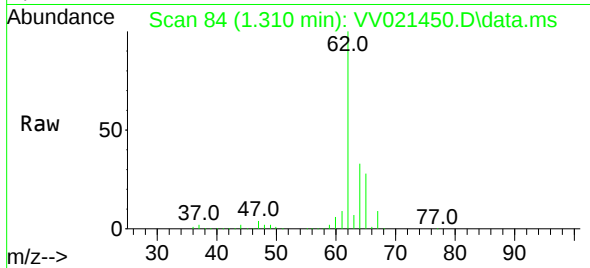




#5
 Vinyl chloride
 Concen: 104.97 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. -0.000 min
 Lab File: VV021450.D
 Acq: 28 May 2021 12:40

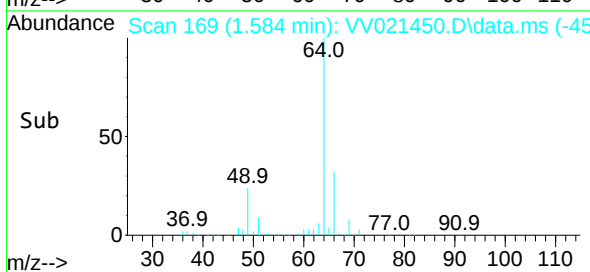
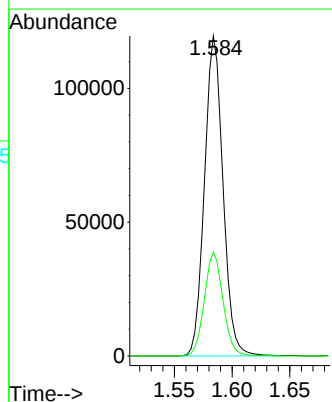
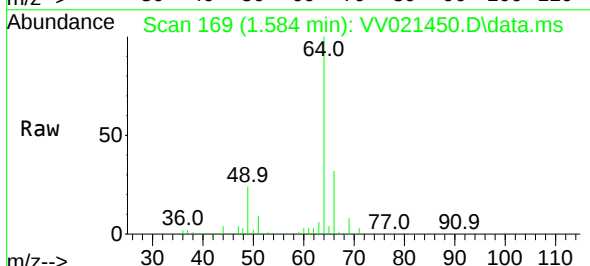
Instrument :
 MSVOA_V
 ClientSampleId :

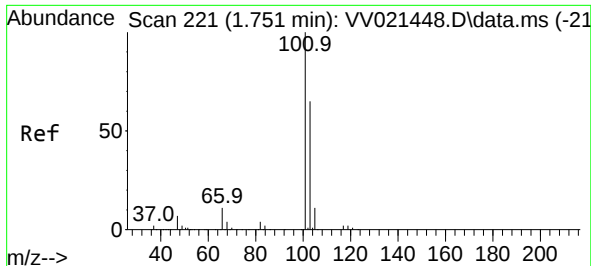
Tgt Ion: 62 Resp: 380705
 Ion Ratio Lower Upper
 62 100
 64 33.1 23.1 42.9



#8
 Chloroethane
 Concen: 64.66 ug/L
 RT: 1.584 min Scan# 169
 Delta R.T. -0.000 min
 Lab File: VV021450.D
 Acq: 28 May 2021 12:40

Tgt Ion: 64 Resp: 133340
 Ion Ratio Lower Upper
 64 100
 66 32.5 22.5 41.9

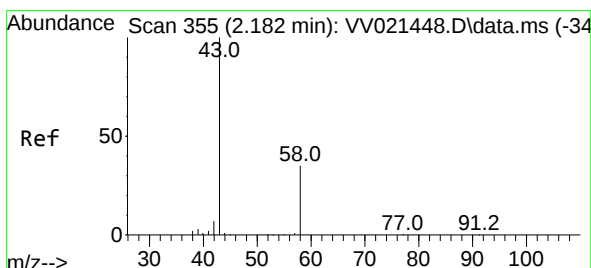
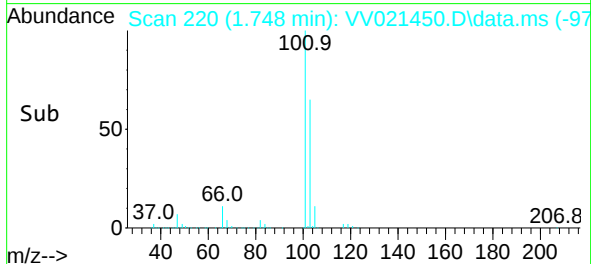
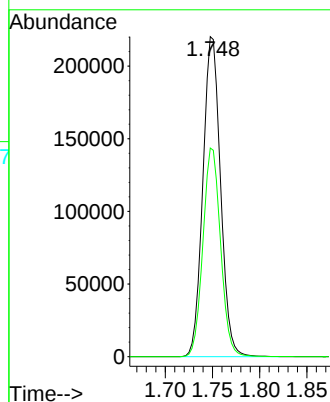
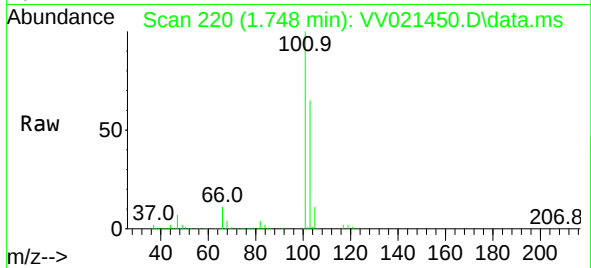




#9
Trichlorofluoromethane
Concen: 53.21 ug/L
RT: 1.748 min Scan# 220
Delta R.T. -0.003 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

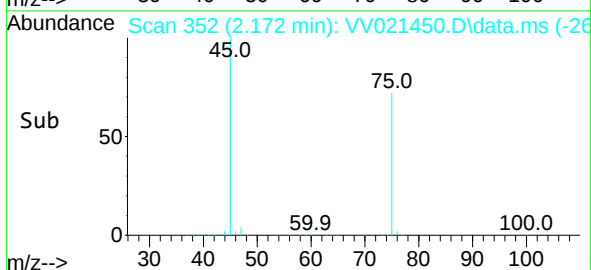
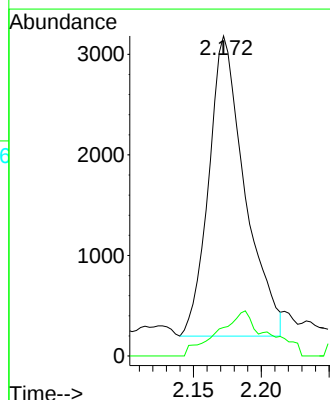
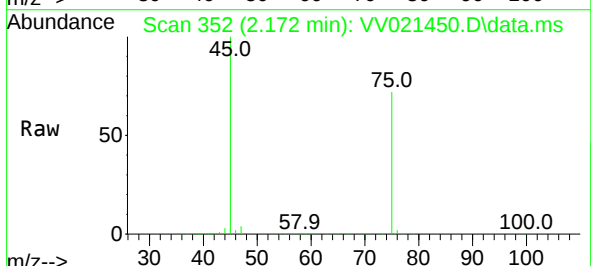
Instrument :
MSVOA_V
ClientSampled :

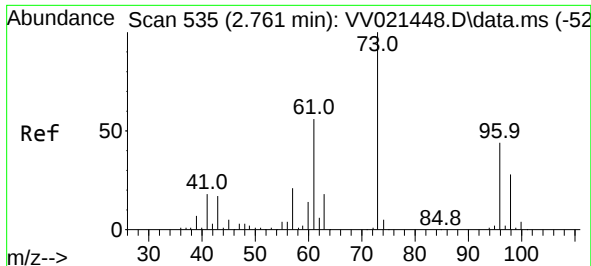
Tgt Ion:101 Resp: 286259
Ion Ratio Lower Upper
101 100
103 65.1 52.1 78.1



#13
Acetone
Concen: 2.66 ug/L
RT: 2.172 min Scan# 352
Delta R.T. -0.010 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

Tgt Ion: 43 Resp: 5520
Ion Ratio Lower Upper
43 100
58 8.4 0.0 0.2#

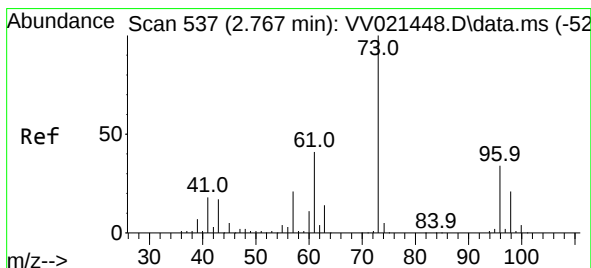
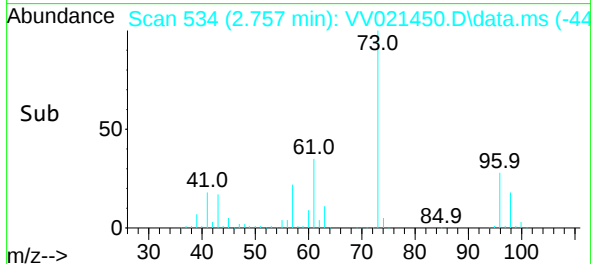
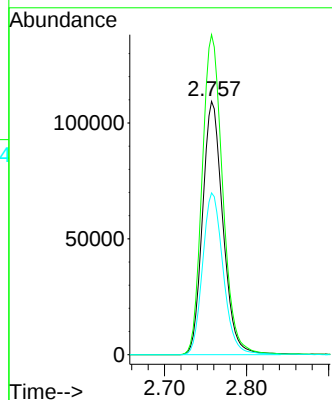
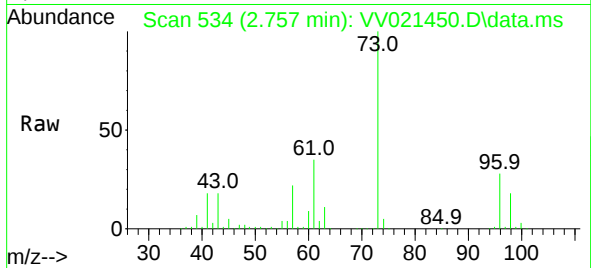




#17
trans-1,2-Dichloroethene
Concen: 55.08 ug/L
RT: 2.757 min Scan# 534
Delta R.T. -0.003 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

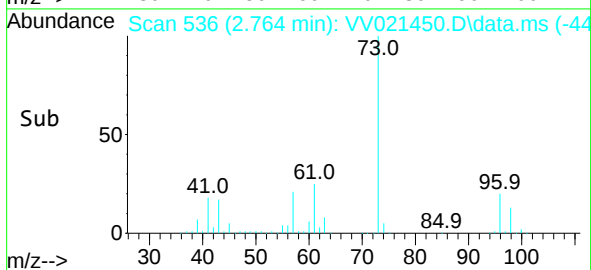
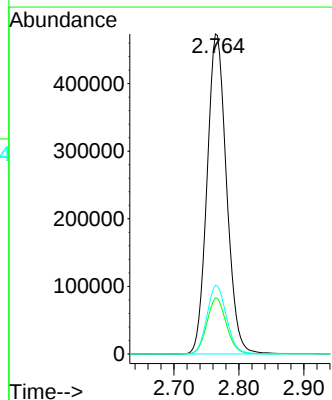
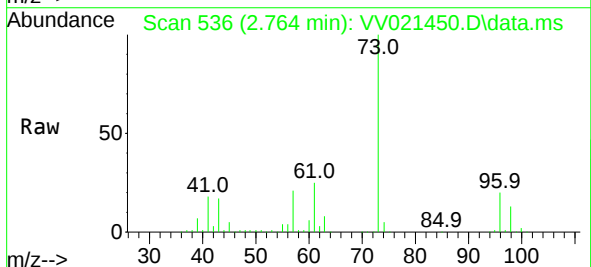
Instrument :
MSVOA_V
ClientSampleId :

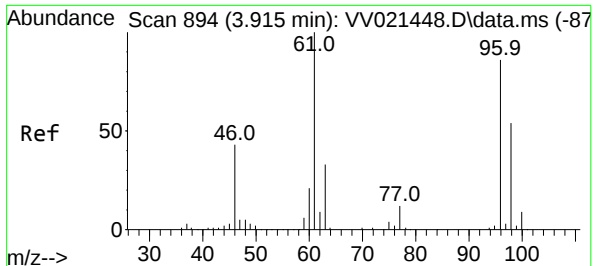
Tgt Ion: 96 Resp: 188733
Ion Ratio Lower Upper
96 100
61 126.3 88.8 165.0
98 63.9 44.4 82.4



#18
Methyl tert-butyl Ether
Concen: 90.82 ug/L
RT: 2.764 min Scan# 536
Delta R.T. -0.003 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

Tgt Ion: 73 Resp: 986689
Ion Ratio Lower Upper
73 100
43 17.6 13.9 20.9
57 21.5 17.1 25.7





#20

cis-1,2-Dichloroethene

Concen: 23.01 ug/L

RT: 3.912 min Scan# 893

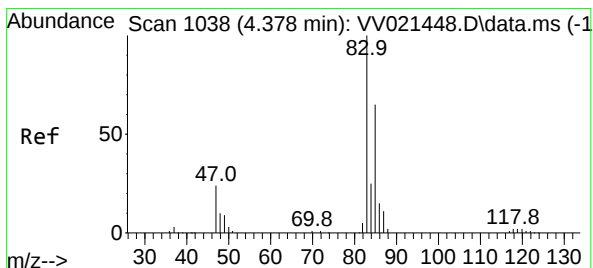
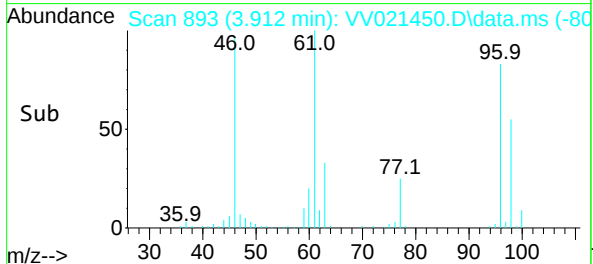
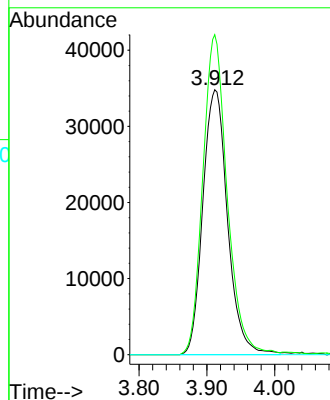
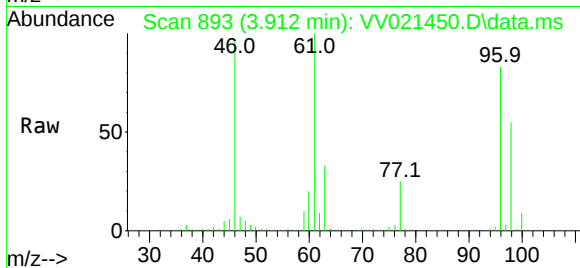
Delta R.T. -0.003 min

Lab File: VV021450.D

Acq: 28 May 2021 12:40

Tgt Ion: 96 Resp: 88224

Ion	Ratio	Lower	Upper
96	100		
61	120.7	82.4	153.0
68	0.0	0.0	0.0



#25

Chloroform

Concen: 28.30 ug/L

RT: 4.375 min Scan# 1037

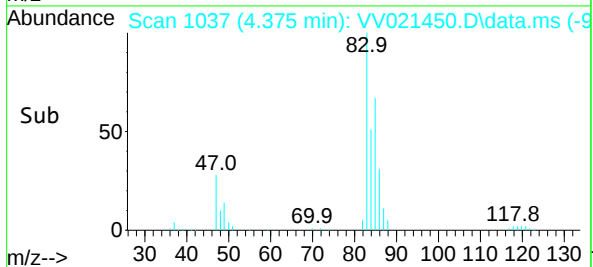
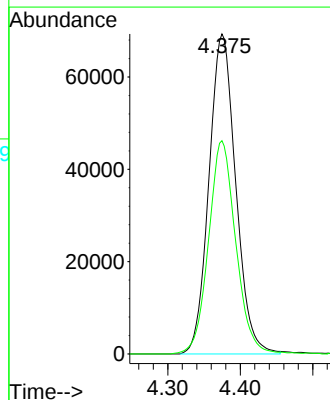
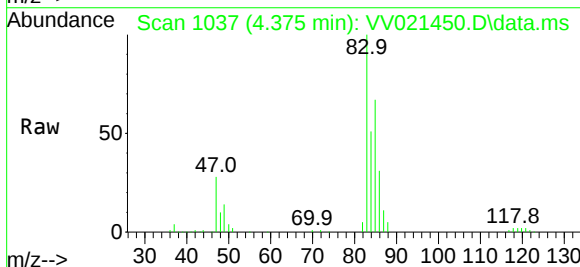
Delta R.T. -0.003 min

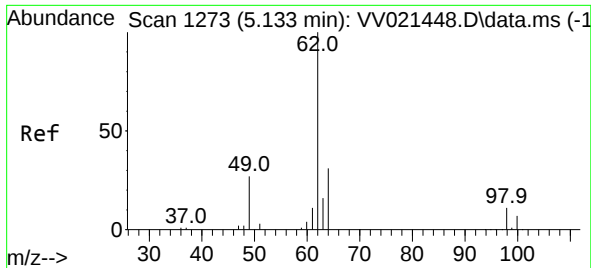
Lab File: VV021450.D

Acq: 28 May 2021 12:40

Tgt Ion: 83 Resp: 177852

Ion	Ratio	Lower	Upper
83	100		
85	66.7	45.1	83.7





#27

1,2-Dichloroethane

Concen: 40.92 ug/L

RT: 5.130 min Scan# 1272

Delta R.T. -0.003 min

Lab File: VV021450.D

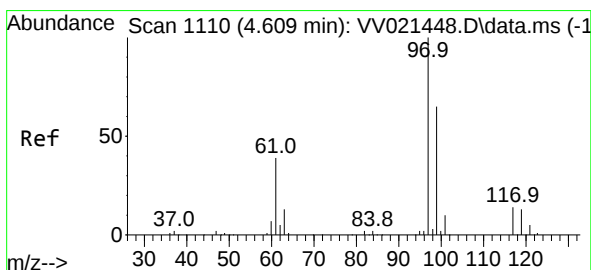
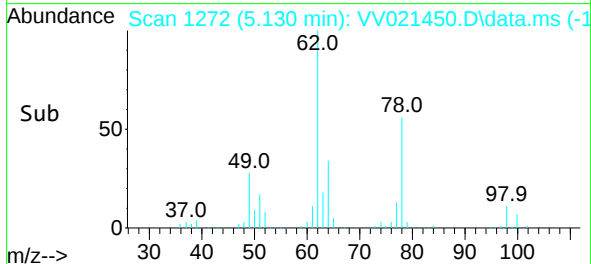
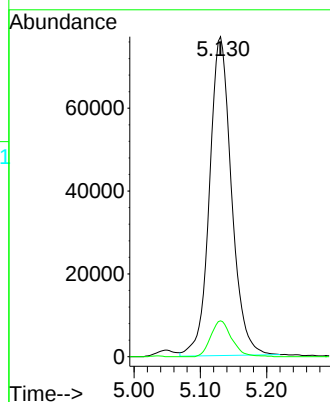
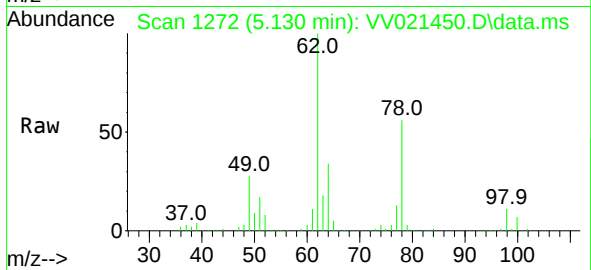
Acq: 28 May 2021 12:40

Tgt Ion: 62 Resp: 177650

Ion Ratio Lower Upper

62 100

98 11.2 8.6 12.8



#30

1,1,1-Trichloroethane

Concen: 47.32 ug/L

RT: 4.606 min Scan# 1109

Delta R.T. -0.003 min

Lab File: VV021450.D

Acq: 28 May 2021 12:40

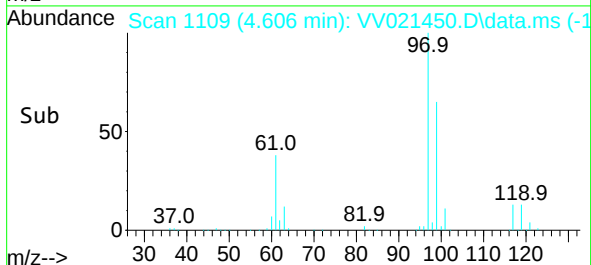
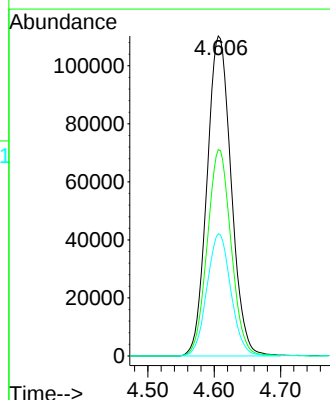
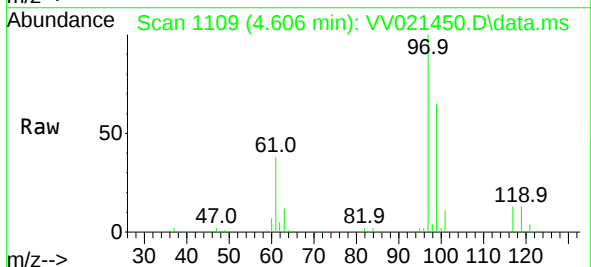
Tgt Ion: 97 Resp: 279534

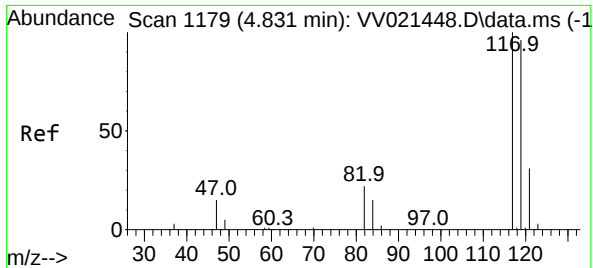
Ion Ratio Lower Upper

97 100

99 63.4 51.8 77.6

61 37.7 30.2 45.4

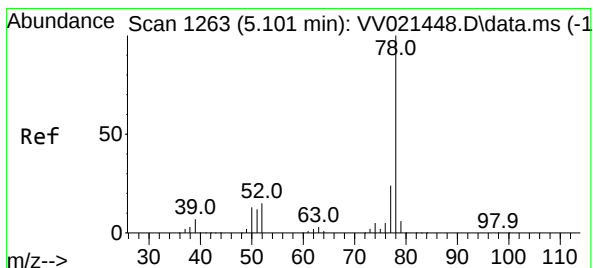
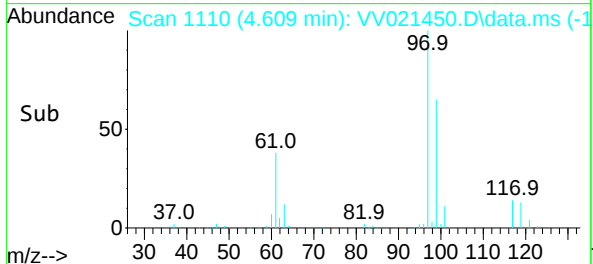
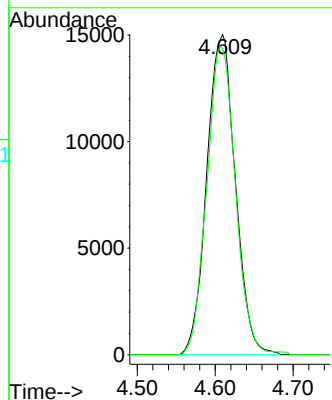
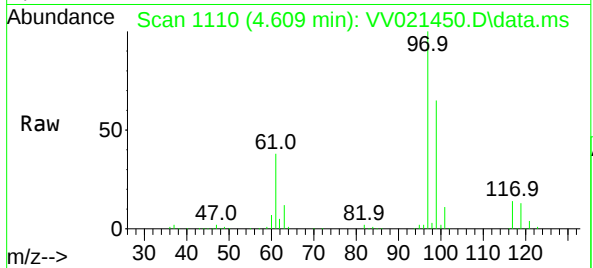




#31
Carbon tetrachloride
Concen: 7.15 ug/L
RT: 4.609 min Scan# 1110
Delta R.T. -0.222 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

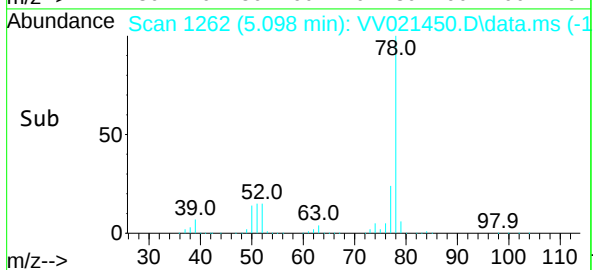
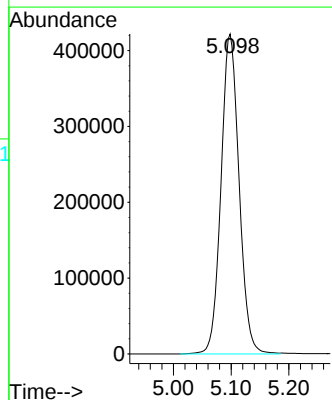
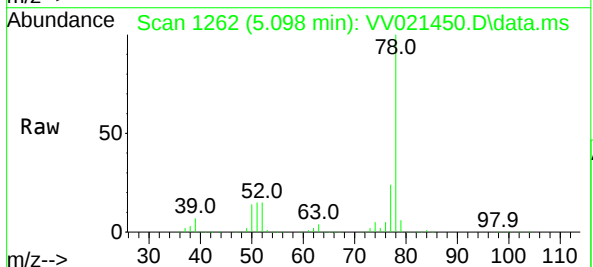
Instrument :
MSVOA_V
ClientSampleId :

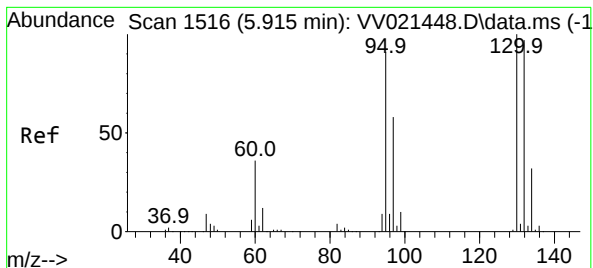
Tgt Ion:117 Resp: 38336
Ion Ratio Lower Upper
117 100
119 95.9 76.8 115.2



#33
Benzene
Concen: 66.90 ug/L
RT: 5.098 min Scan# 1262
Delta R.T. -0.003 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

Tgt Ion: 78 Resp: 916337





#34

Trichloroethene

Concen: 87.00 ug/L

RT: 5.912 min Scan# 1515

Delta R.T. -0.003 min

Lab File: VV021450.D

Acq: 28 May 2021 12:40

Tgt Ion: 95 Resp: 323889

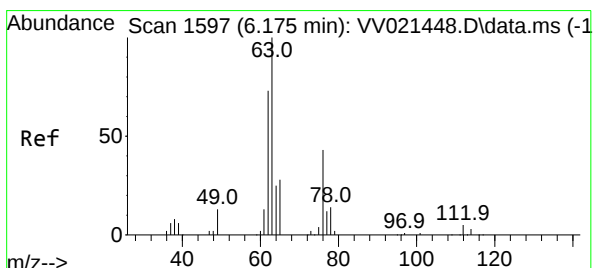
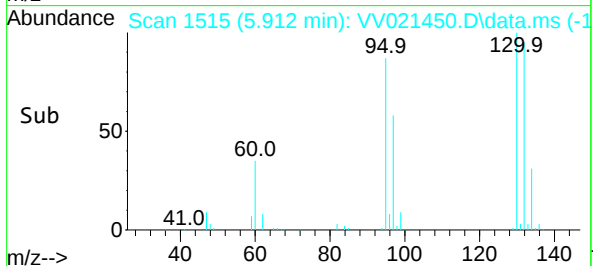
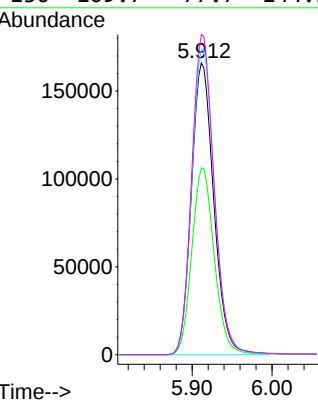
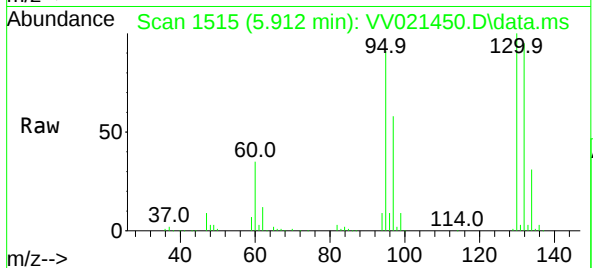
Ion Ratio Lower Upper

95 100

97 64.0 44.3 82.3

132 104.7 73.2 136.0

130 109.7 77.7 144.3



#37

1,2-Dichloropropane

Concen: 48.29 ug/L

RT: 6.172 min Scan# 1596

Delta R.T. -0.003 min

Lab File: VV021450.D

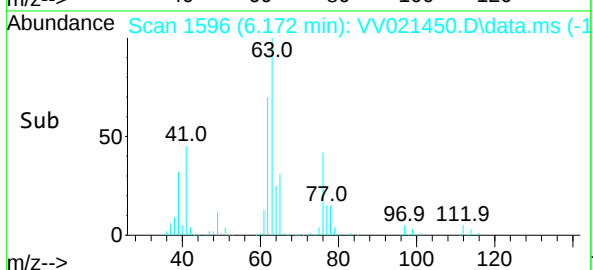
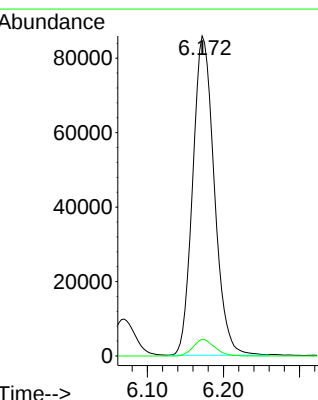
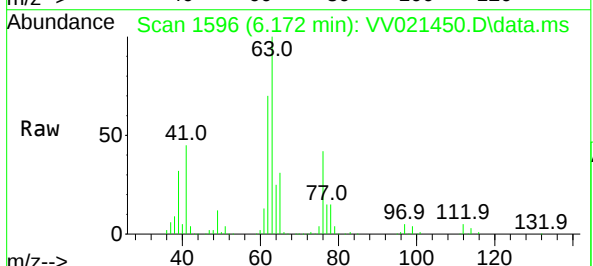
Acq: 28 May 2021 12:40

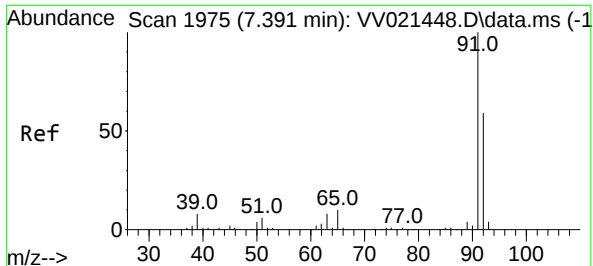
Tgt Ion: 63 Resp: 168649

Ion Ratio Lower Upper

63 100

112 5.2 4.0 6.0

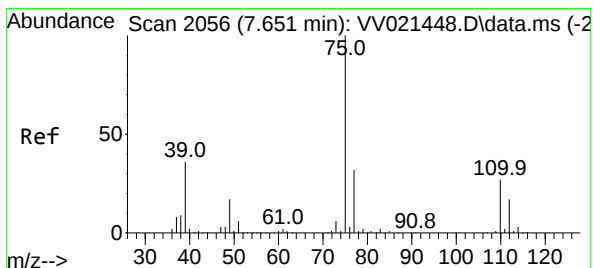
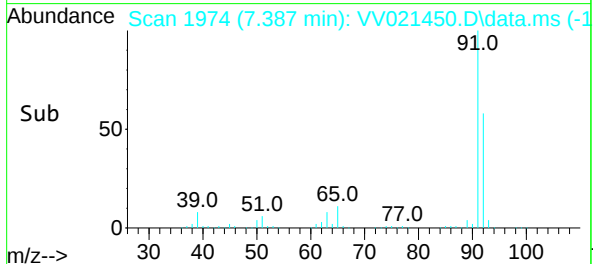
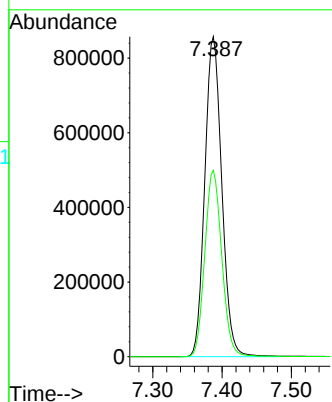
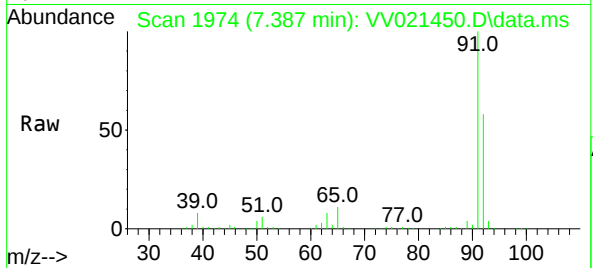




#42
Toluene
Concen: 96.01 ug/L
RT: 7.387 min Scan# 1974
Delta R.T. -0.003 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

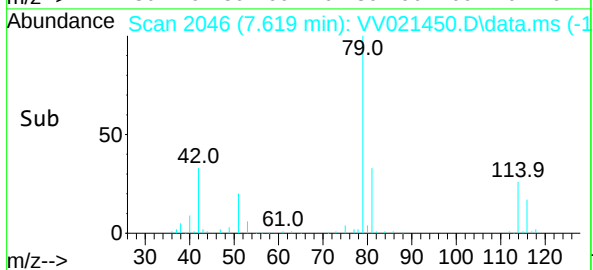
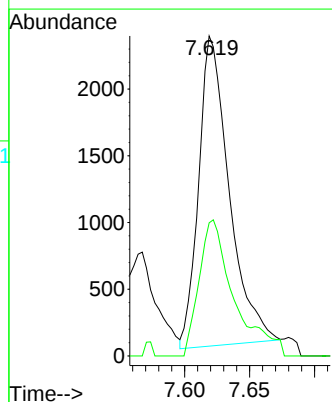
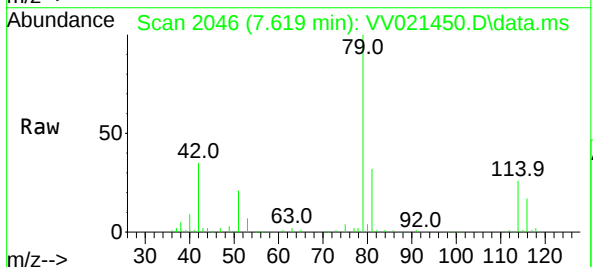
Instrument :
MSVOA_V
ClientSampled :

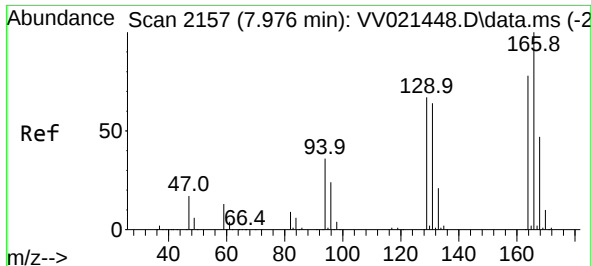
Tgt Ion: 91 Resp: 1458867
Ion Ratio Lower Upper
91 100
92 58.2 40.9 75.9



#44
trans-1,3-Dichloropropene
Concen: 0.68 ug/L
RT: 7.619 min Scan# 2046
Delta R.T. -0.032 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

Tgt Ion: 75 Resp: 3797
Ion Ratio Lower Upper
75 100
77 41.6 22.9 42.5



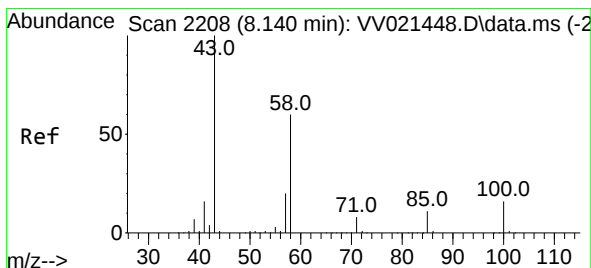
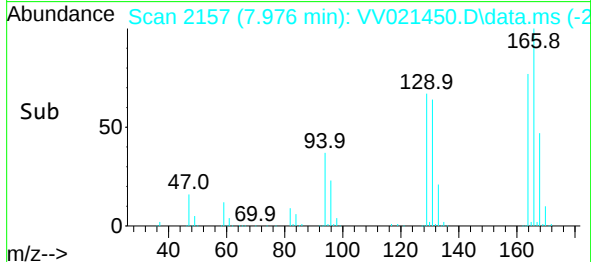
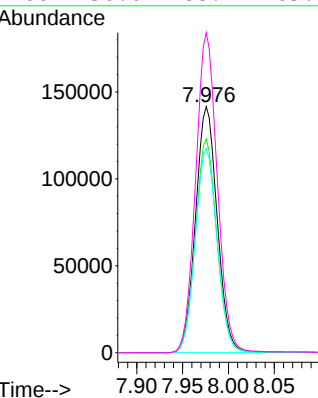
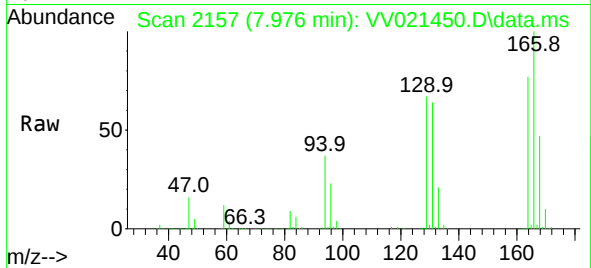


#46
Tetrachloroethene
Concen: 68.08 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. -0.000 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:164 Resp: 233030

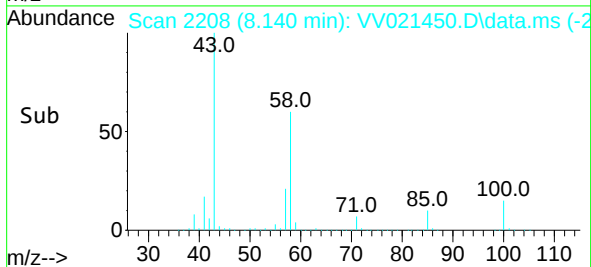
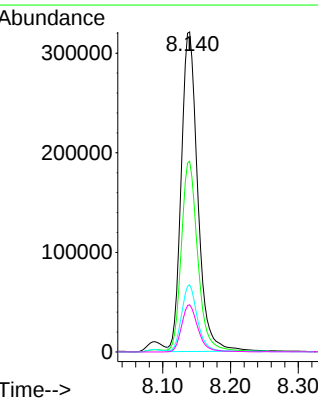
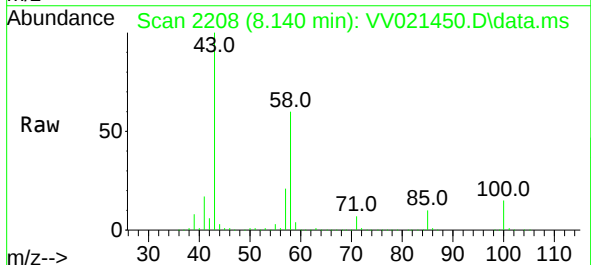
Ion	Ratio	Lower	Upper
164	100		
129	86.8	60.5	112.3
131	82.9	58.7	108.9
166	130.0	88.1	163.5

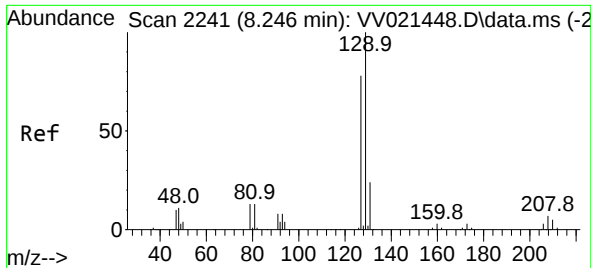


#48
2-Hexanone
Concen: 149.30 ug/L
RT: 8.140 min Scan# 2208
Delta R.T. -0.000 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

Tgt Ion: 43 Resp: 542199

Ion	Ratio	Lower	Upper
43	100		
58	59.2	47.1	70.7
57	20.1	16.0	24.0
100	14.5	11.9	17.9

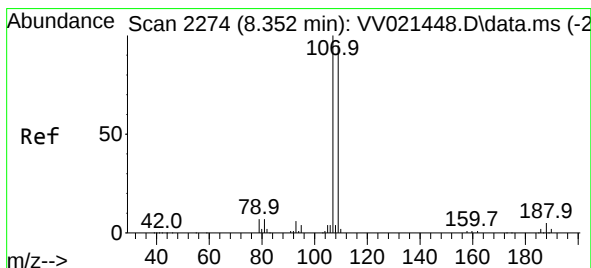
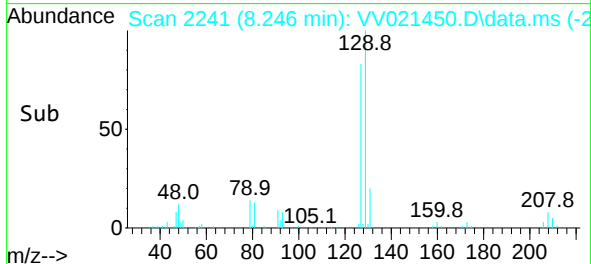
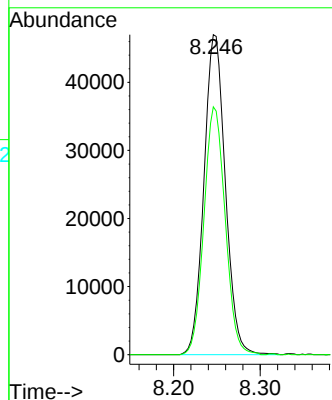
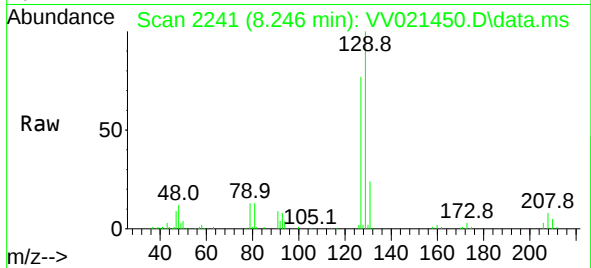




#49
Dibromochloromethane
Concen: 18.19 ug/L
RT: 8.246 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

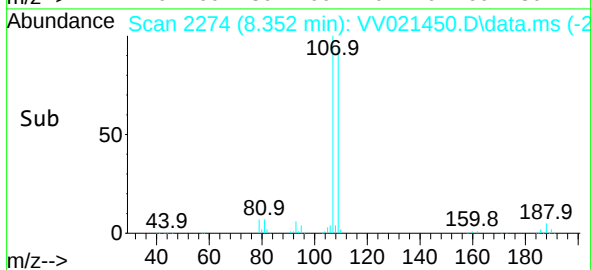
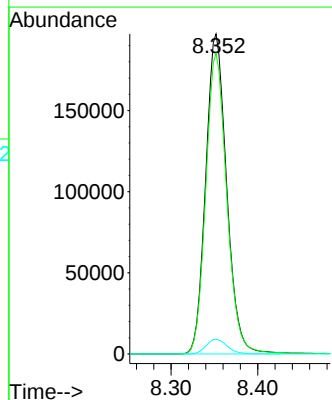
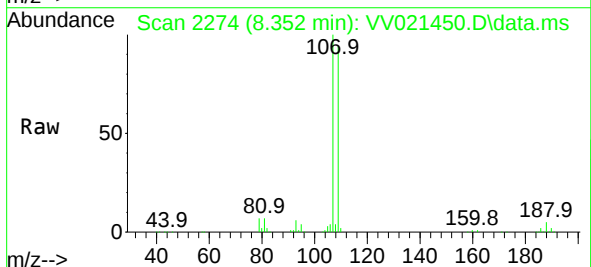
Instrument :
MSVOA_V
ClientSampled :

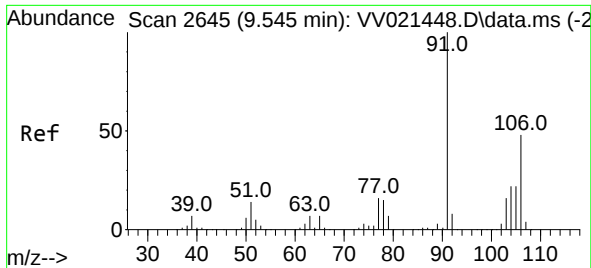
Tgt Ion:129 Resp: 80728
Ion Ratio Lower Upper
129 100
127 77.4 53.0 98.4



#50
1,2-Dibromoethane
Concen: 84.83 ug/L
RT: 8.352 min Scan# 2274
Delta R.T. -0.000 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

Tgt Ion:107 Resp: 330945
Ion Ratio Lower Upper
107 100
109 93.9 66.7 123.9
188 4.6 3.8 5.8

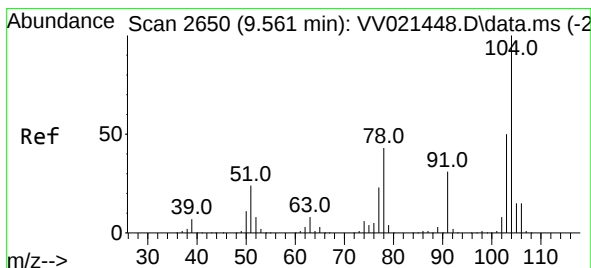
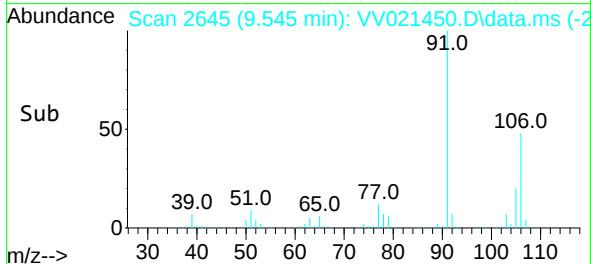
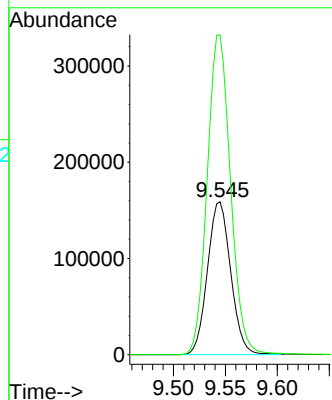
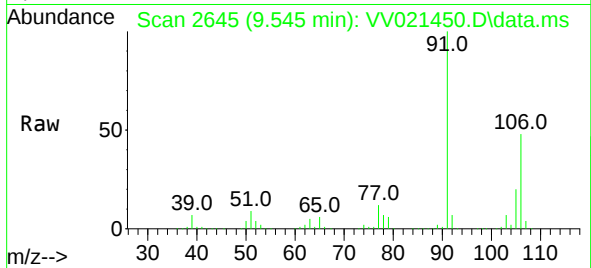




#54
o-Xylene
Concen: 39.07 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. -0.000 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

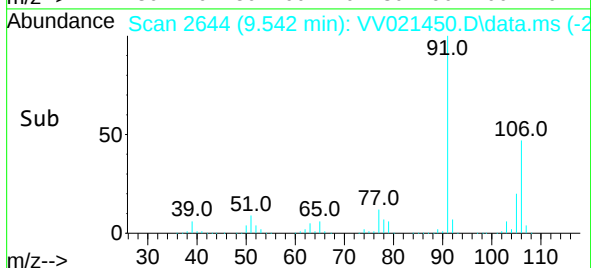
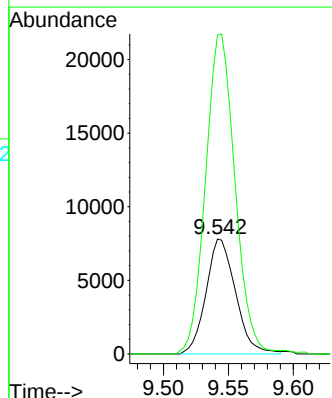
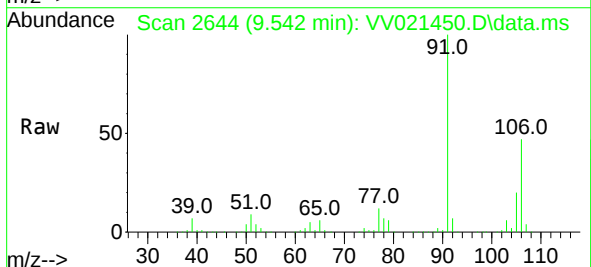
Instrument :
MSVOA_V
ClientSampled :

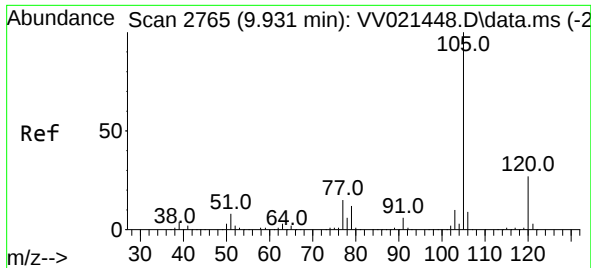
Tgt Ion:106 Resp: 247366
Ion Ratio Lower Upper
106 100
91 209.3 148.5 275.9



#55
Styrene
Concen: 1.13 ug/L
RT: 9.542 min Scan# 2644
Delta R.T. -0.019 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

Tgt Ion:104 Resp: 12353
Ion Ratio Lower Upper
104 100
78 277.3 30.3 56.3#

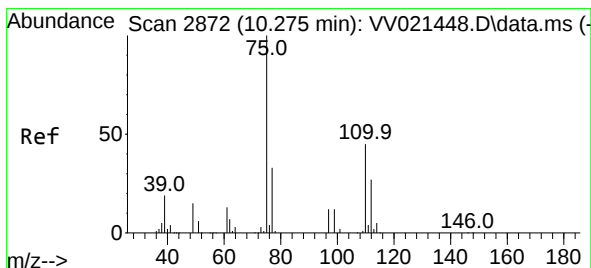
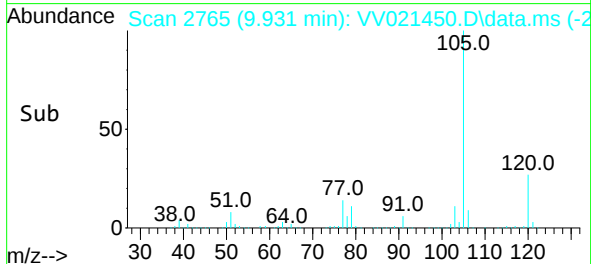
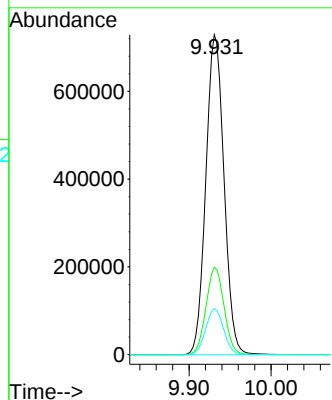
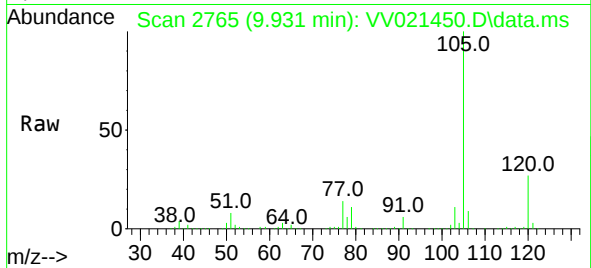




#60
Isopropylbenzene
Concen: 64.64 ug/L
RT: 9.931 min Scan# 2765
Delta R.T. -0.000 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

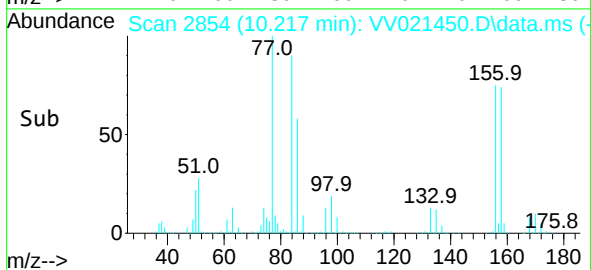
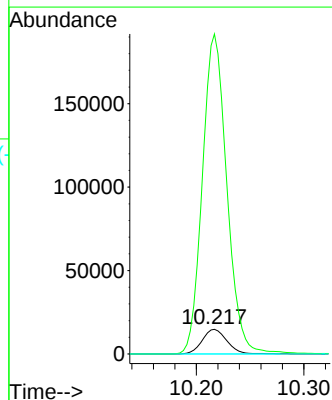
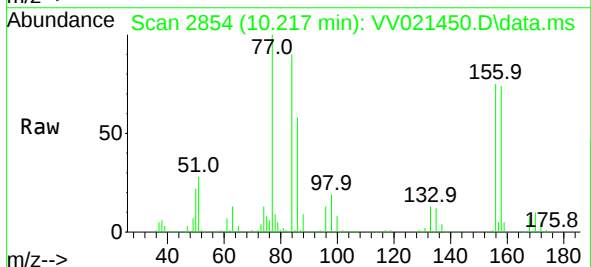
Instrument :
MSVOA_V
ClientSampled :

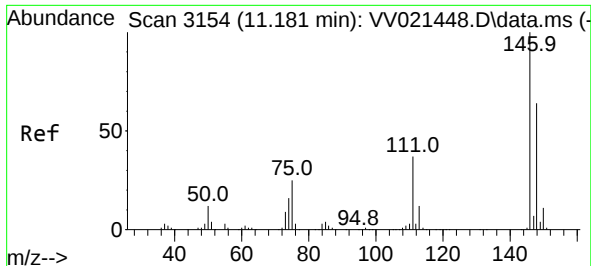
Tgt Ion:105 Resp: 1119926
Ion Ratio Lower Upper
105 100
120 27.2 21.7 32.5
77 14.3 11.5 17.3



#61
1,2,3-Trichloropropane
Concen: 5.37 ug/L
RT: 10.217 min Scan# 2854
Delta R.T. -0.058 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

Tgt Ion: 75 Resp: 23611
Ion Ratio Lower Upper
75 100
77 1277.7 25.9 38.9#
110 0.0 34.8 52.2#

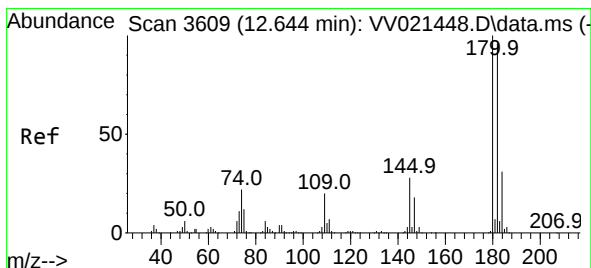
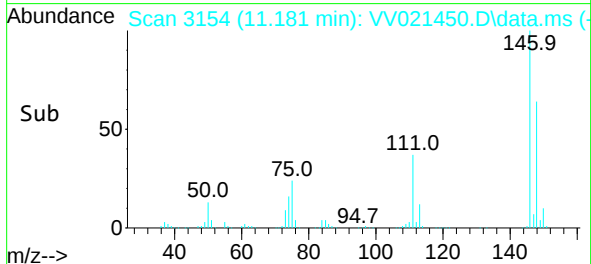
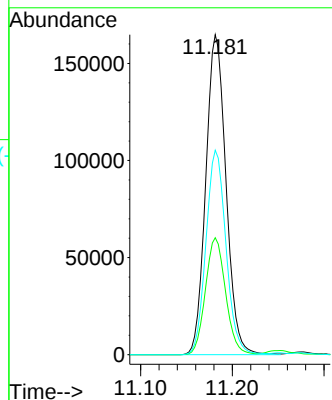
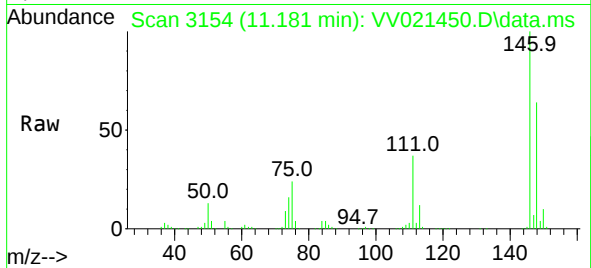




#64
1,3-Dichlorobenzene
Concen: 28.88 ug/L
RT: 11.181 min Scan# 3154
Delta R.T. -0.000 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

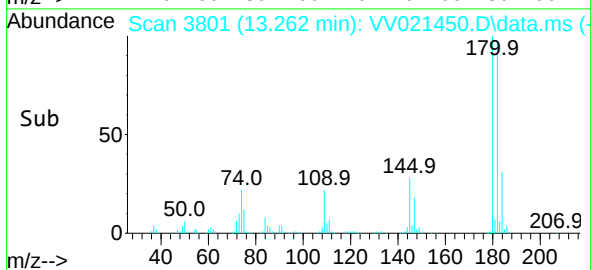
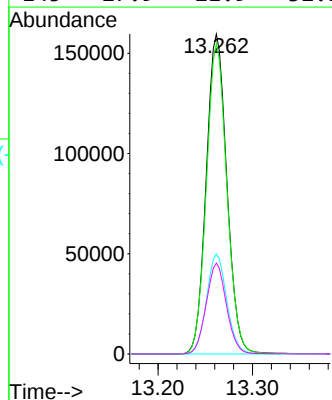
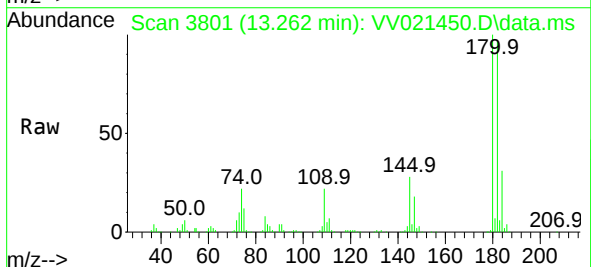
Instrument :
MSVOA_V
ClientSampleId :

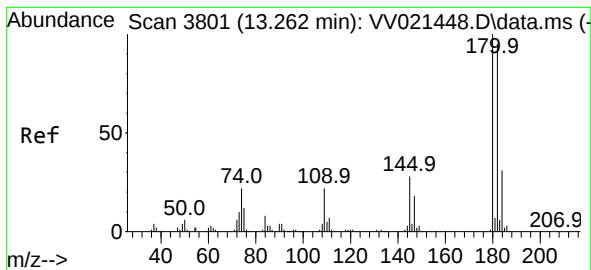
Tgt Ion:146 Resp: 252751
Ion Ratio Lower Upper
146 100
111 36.5 26.0 48.2
148 63.9 45.2 84.0



#69
1,3,5-Trichlorobenzene
Concen: 32.71 ug/L
RT: 13.262 min Scan# 3801
Delta R.T. 0.617 min
Lab File: VV021450.D
Acq: 28 May 2021 12:40

Tgt Ion:180 Resp: 241463
Ion Ratio Lower Upper
180 100
182 96.5 76.8 115.2
184 30.7 24.3 36.5
145 27.9 21.9 32.9





#70

1,2,4-trichlorobenzene

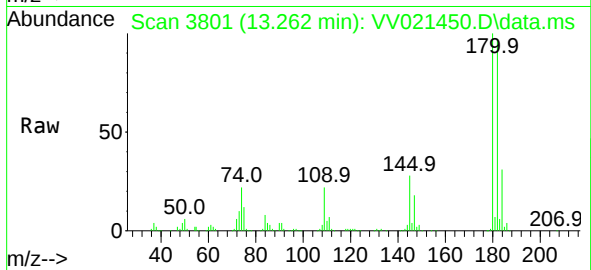
Concen: 36.61 ug/L

RT: 13.262 min Scan# 3801

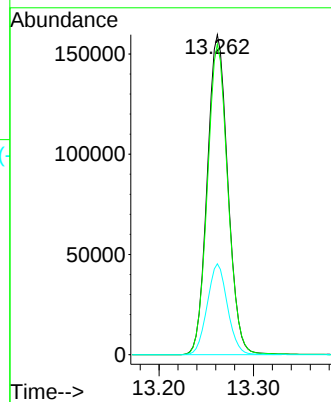
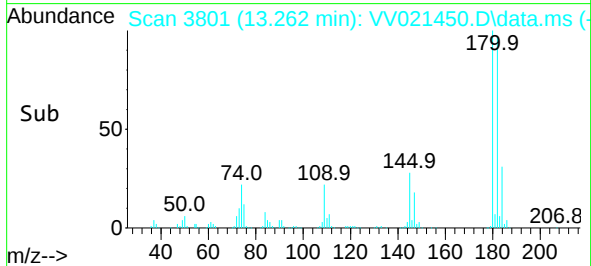
Delta R.T. -0.000 min

Lab File: VV021450.D

Acq: 28 May 2021 12:40



Tgt Ion:	180	Resp:	241463
Ion Ratio	Lower	Upper	
180	100		
182	96.5	76.2	114.4
145	27.9	21.8	32.8



Instrument :
MSVOA_V
ClientSampleId :