

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW122821\
 Data File : VW024224.D
 Acq On : 28 Dec 2021 17:35
 Operator : SY/MD
 Sample : M5193-07
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 29 05:06:46 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR122721WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 29 04:43:10 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	80042	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	82678	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	43007	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	29961	4.977	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	99.600%
7) Chloroethane-d5	1.567	69	29738	5.923	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	118.400%
11) 1,1-Dichloroethene-d2	2.117	63	134380	9.184	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	183.600%#
20) 2-Butanone-d5	3.895	46	69451	103.851	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	207.700%#
24) Chloroform-d	4.352	84	74275	5.812	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	116.200%
26) 1,2-Dichloroethane-d4	5.034	65	36864	6.444	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	128.800%
32) Benzene-d6	5.050	84	132498	5.934	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	118.600%
36) 1,2-Dichloropropane-d6	6.069	67	38858	6.354	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	127.000%
41) Toluene-d8	7.316	98	117742	5.350	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.000%
43) trans-1,3-Dichloroprop...	7.622	79	14627	5.648	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	113.000%
46) 2-Hexanone-d5	8.088	63	57174	65.661	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	131.320%#
56) 1,1,2,2-Tetrachloroeth...	10.217	84	27051	6.478	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	129.600%#
66) 1,2-Dichlorobenzene-d4	11.625	152	49046	6.561	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	131.200%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.310	62	6432	0.450	ug/L	89
8) Chloroethane	1.310	64	2802	0.337	ug/L	97
9) Trichlorofluoromethane	1.754	101	3522	0.151	ug/L	96
12) 1,1-Dichloroethene	2.121	96	170082	15.475	ug/L #	78
14) Carbon disulfide	2.297	76	3905	0.110	ug/L #	90
17) Methyl tert-butyl Ether	2.770	73	6399	0.288	ug/L #	90
19) 1,1-Dichloroethane	3.191	63	121295	6.243	ug/L	99
22) cis-1,2-Dichloroethene	3.915	96	10149	0.879	ug/L	98
27) 1,2-Dichloroethane	5.140	62	4106	0.338	ug/L #	79
29) 1,1,1-Trichloroethane	4.609	97	133912	6.423	ug/L	100
31) Carbon tetrachloride	4.609	117	17062	0.882	ug/L	96
34) Trichloroethene	5.911	95	277162	22.645	ug/L	97
35) Methylcyclohexane	6.072	83	10811	0.610	ug/L #	18
37) 1,2-Dichloropropane	6.072	63	5190	0.519	ug/L #	84
39) cis-1,3-Dichloropropene	6.995	75	1351	0.093	ug/L	96
45) 1,1,2-Trichloroethane	7.850	97	584	0.079	ug/L #	88
47) Tetrachloroethene	7.979	164	903	0.083	ug/L	80
49) Dibromochloromethane	7.976	129	820	0.082	ug/L #	11
61) 1,2,3-Trichloropropane	11.249	75	4153	0.816	ug/L #	64

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Dec 29 04:43:10 2021
Response via : Initial Calibration

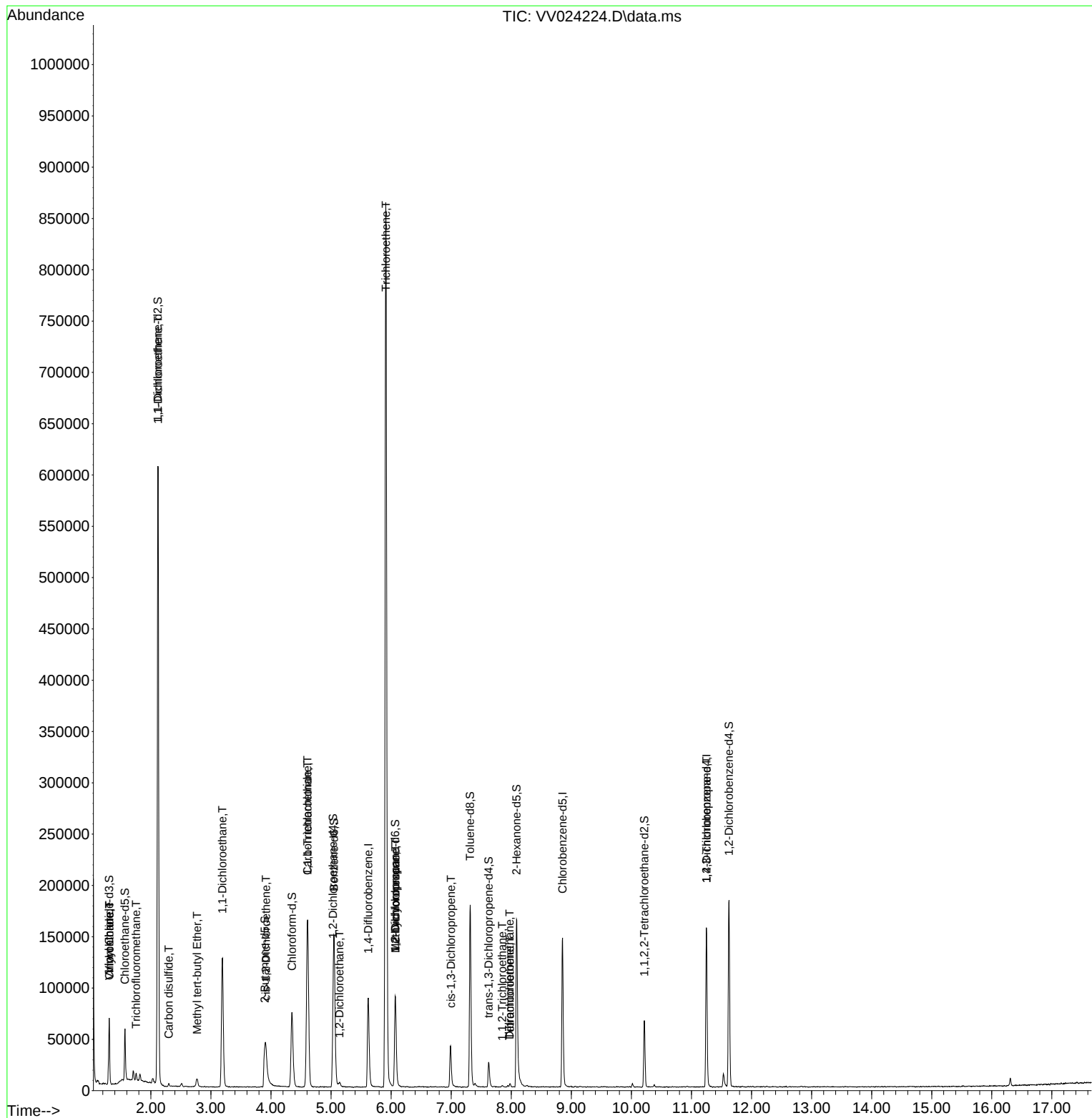
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

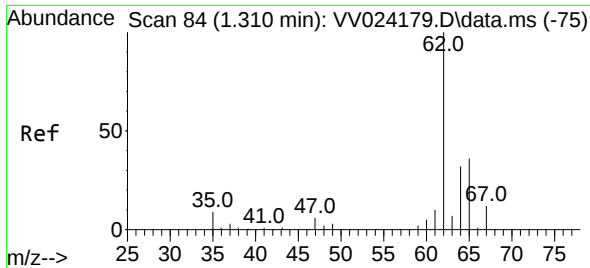
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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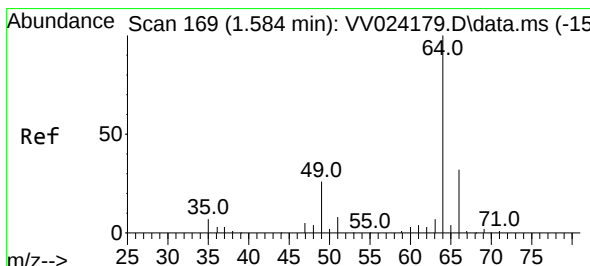
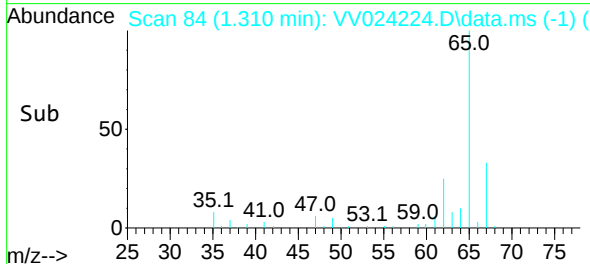
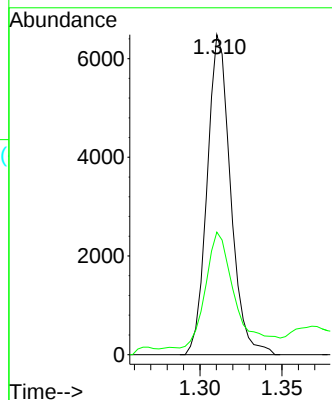
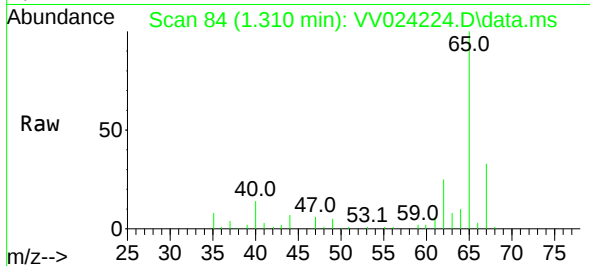




#5
 Vinyl chloride
 Concen: 0.450 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. -0.000 min
 Lab File: VV024224.D
 Acq: 28 Dec 2021 17:35

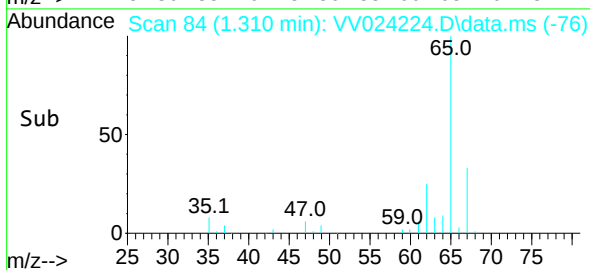
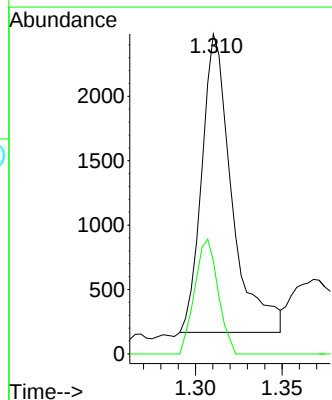
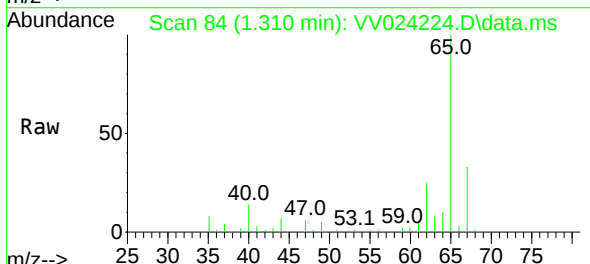
Instrument :
 MSVOA_V
 ClientSampleId :

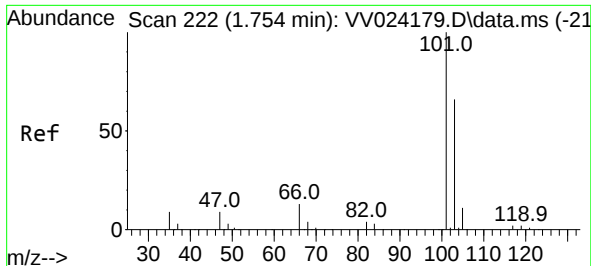
Tgt Ion: 62 Resp: 6432
 Ion Ratio Lower Upper
 62 100
 64 38.3 22.4 41.6



#8
 Chloroethane
 Concen: 0.337 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. -0.273 min
 Lab File: VV024224.D
 Acq: 28 Dec 2021 17:35

Tgt Ion: 64 Resp: 2802
 Ion Ratio Lower Upper
 64 100
 66 29.1 21.4 39.8

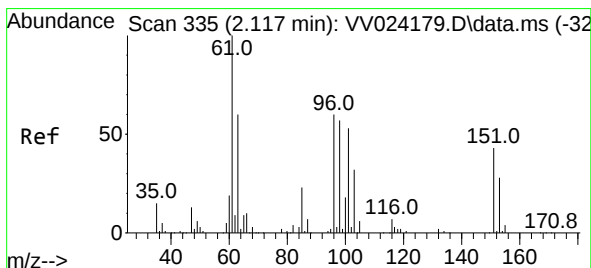
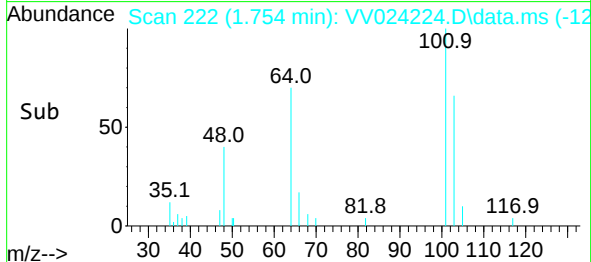
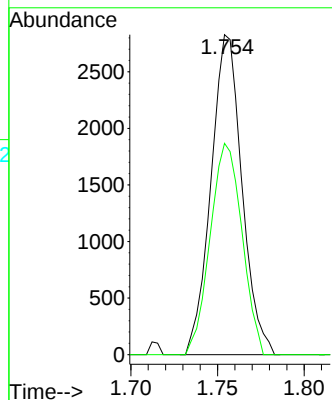
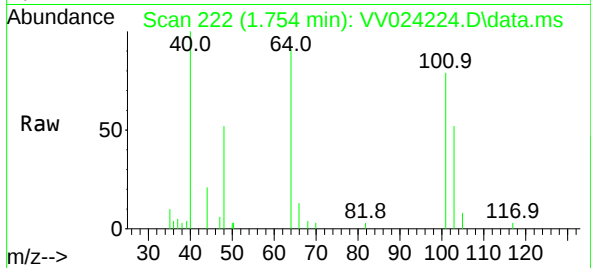




#9
Trichlorofluoromethane
Concen: 0.151 ug/L
RT: 1.754 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV024224.D
Acq: 28 Dec 2021 17:35

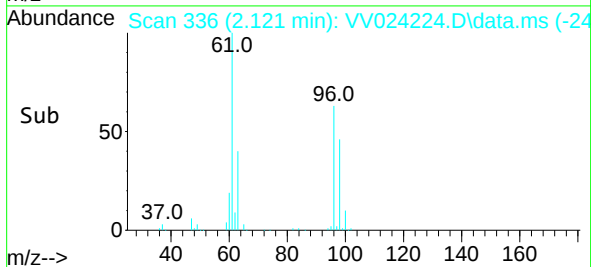
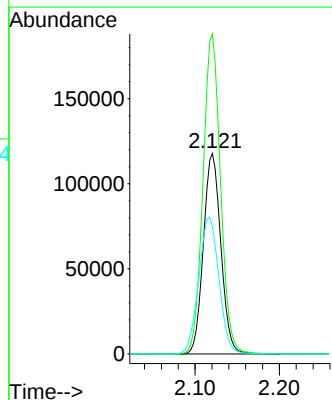
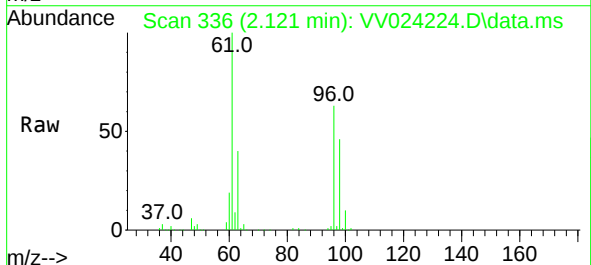
Instrument :
MSVOA_V
ClientSampleId :

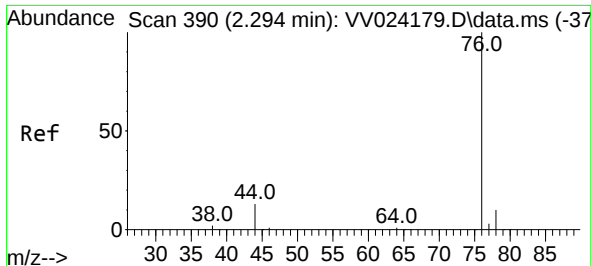
Tgt Ion:101 Resp: 3522
Ion Ratio Lower Upper
101 100
103 67.6 51.6 77.4



#12
1,1-Dichloroethene
Concen: 15.475 ug/L
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV024224.D
Acq: 28 Dec 2021 17:35

Tgt Ion: 96 Resp: 170082
Ion Ratio Lower Upper
96 100
61 159.5 116.1 215.5
63 63.5 79.4 147.4#





#14

Carbon disulfide

Concen: 0.110 ug/L

RT: 2.297 min Scan# 390

Delta R.T. 0.003 min

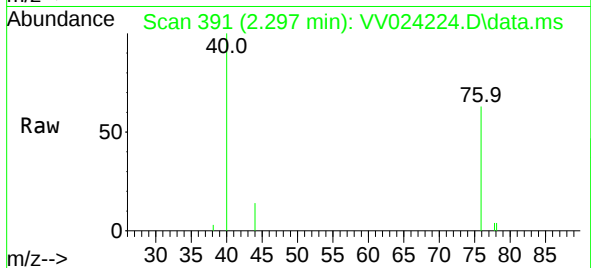
Lab File: VV024224.D

Acq: 28 Dec 2021 17:35

Instrument :

MSVOA_V

ClientSampleId :

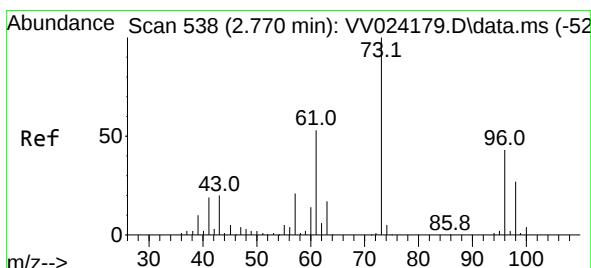
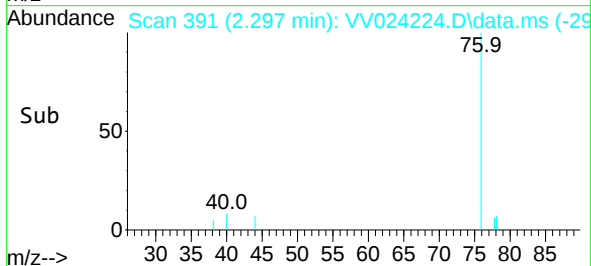
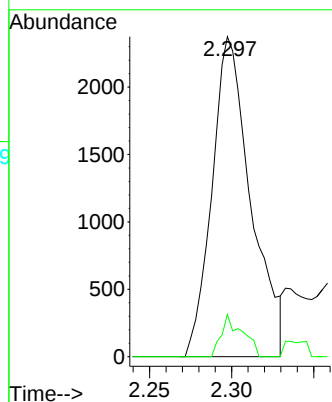


Tgt Ion: 76 Resp: 3905

Ion Ratio Lower Upper

76 100

78 13.2 7.5 11.3#



#17

Methyl tert-butyl Ether

Concen: 0.288 ug/L

RT: 2.770 min Scan# 538

Delta R.T. -0.000 min

Lab File: VV024224.D

Acq: 28 Dec 2021 17:35

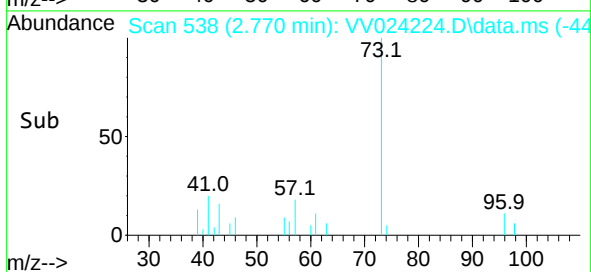
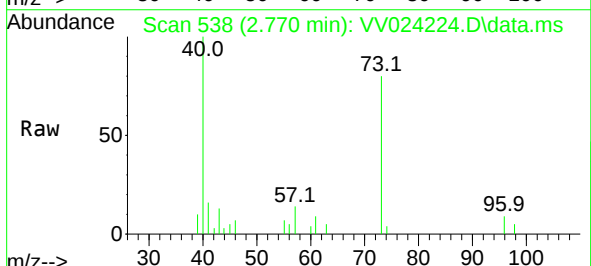
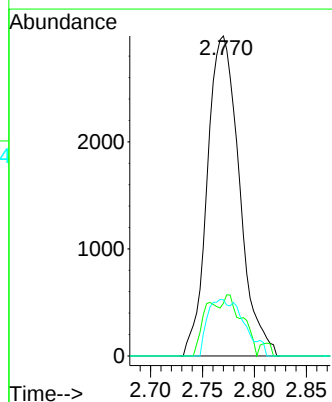
Tgt Ion: 73 Resp: 6399

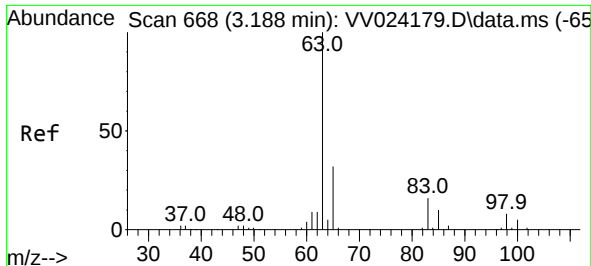
Ion Ratio Lower Upper

73 100

43 11.7 15.5 23.3#

57 20.1 17.1 25.7





#19

1,1-Dichloroethane

Concen: 6.243 ug/L

RT: 3.191 min Scan# 669

Delta R.T. -0.000 min

Lab File: VV024224.D

Acq: 28 Dec 2021 17:35

Instrument :

MSVOA_V

ClientSampleId :

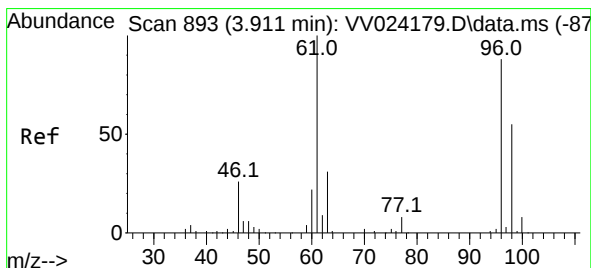
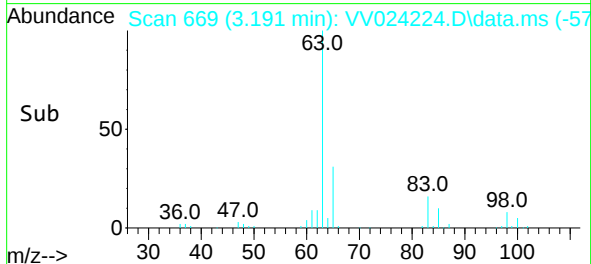
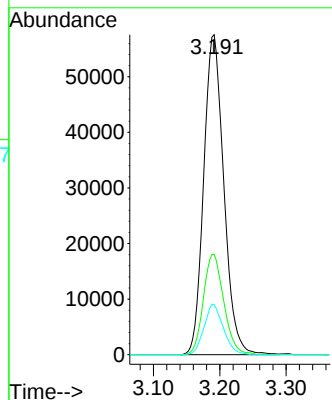
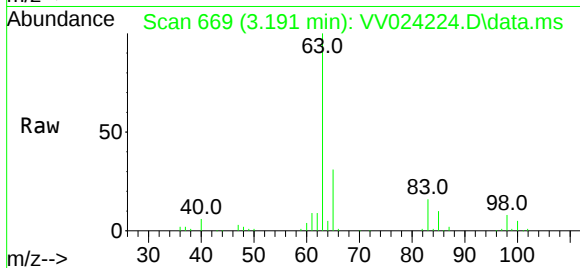
Tgt Ion: 63 Resp: 121295

Ion Ratio Lower Upper

63 100

65 31.4 22.3 41.3

83 15.7 10.7 19.9



#22

cis-1,2-Dichloroethene

Concen: 0.879 ug/L

RT: 3.915 min Scan# 894

Delta R.T. 0.003 min

Lab File: VV024224.D

Acq: 28 Dec 2021 17:35

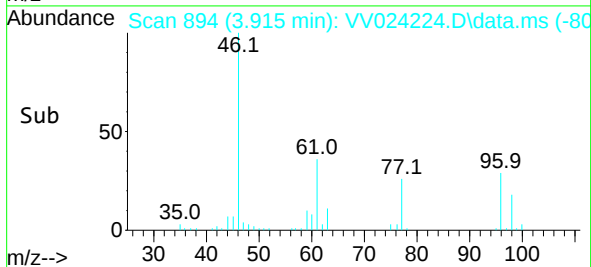
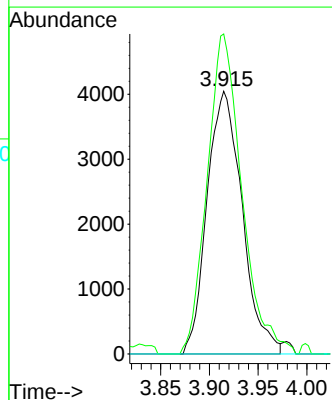
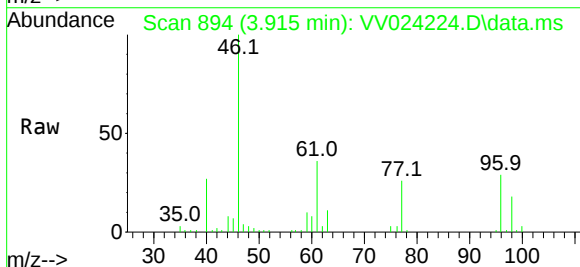
Tgt Ion: 96 Resp: 10149

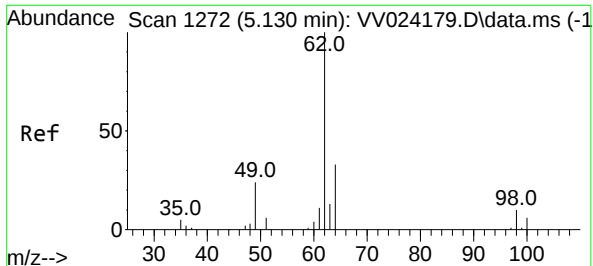
Ion Ratio Lower Upper

96 100

61 121.8 83.4 154.8

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.338 ug/L

RT: 5.140 min Scan# 1110

Delta R.T. 0.009 min

Lab File: VV024224.D

Acq: 28 Dec 2021 17:35

Instrument :

MSVOA_V

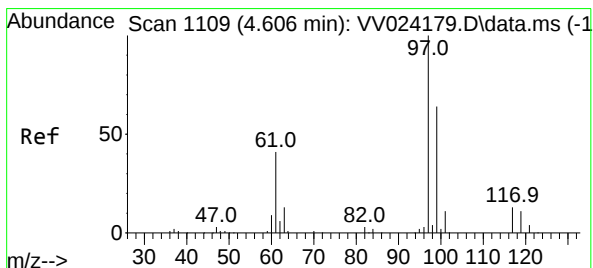
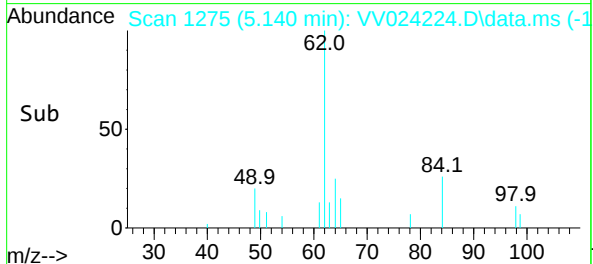
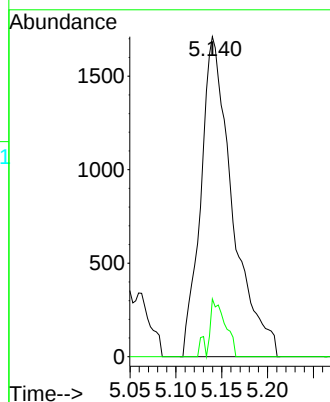
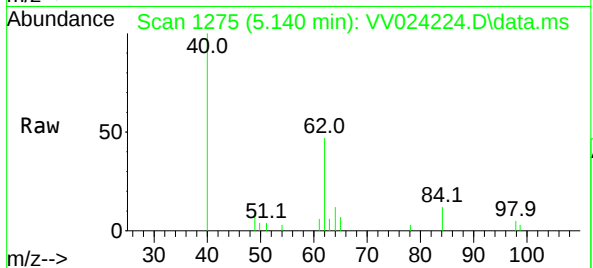
ClientSampleId :

Tgt Ion: 62 Resp: 4106

Ion Ratio Lower Upper

62 100

98 18.1 8.1 12.1#



#29

1,1,1-Trichloroethane

Concen: 6.423 ug/L

RT: 4.609 min Scan# 1110

Delta R.T. 0.003 min

Lab File: VV024224.D

Acq: 28 Dec 2021 17:35

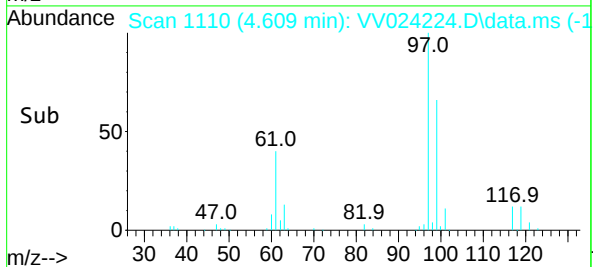
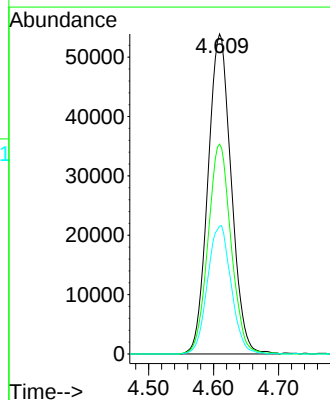
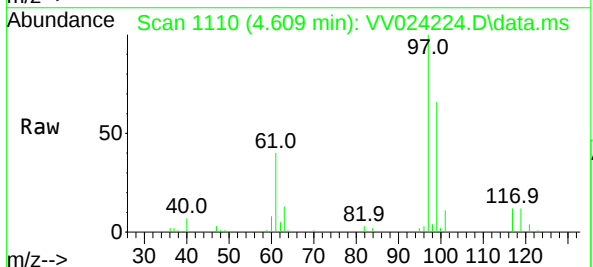
Tgt Ion: 97 Resp: 133912

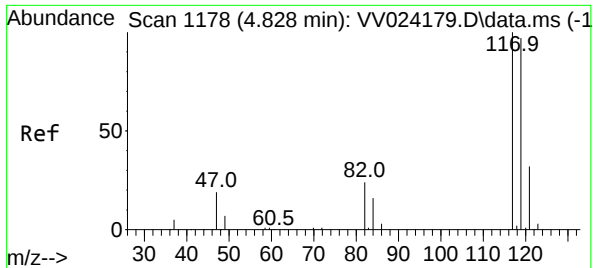
Ion Ratio Lower Upper

97 100

99 64.9 51.9 77.9

61 40.8 33.2 49.8

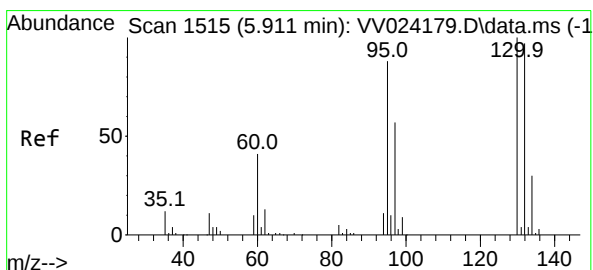
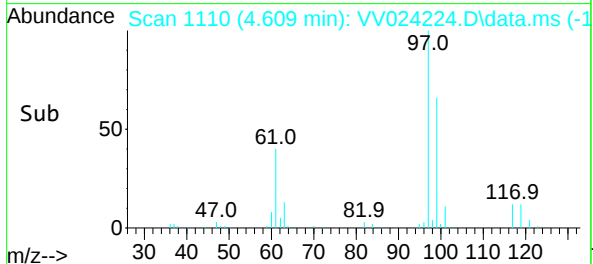
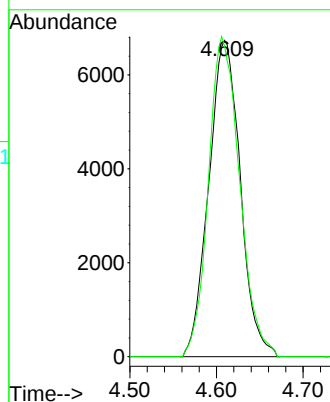
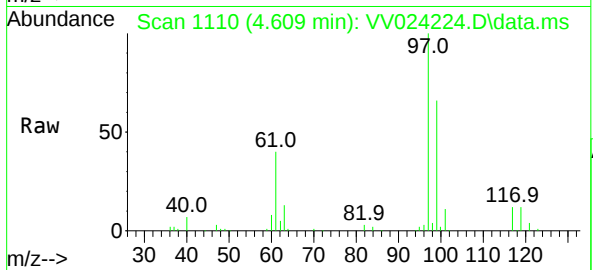




#31
Carbon tetrachloride
Concen: 0.882 ug/L
RT: 4.609 min Scan# 1178
Delta R.T. -0.219 min
Lab File: VV024224.D
Acq: 28 Dec 2021 17:35

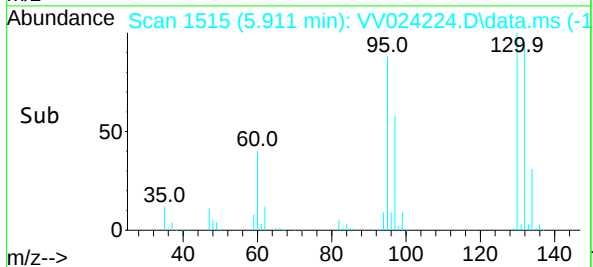
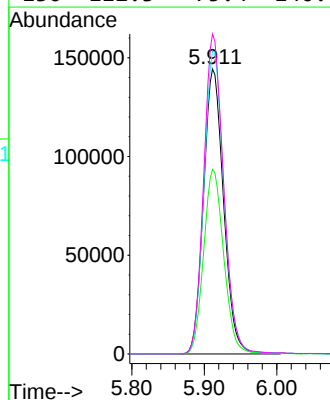
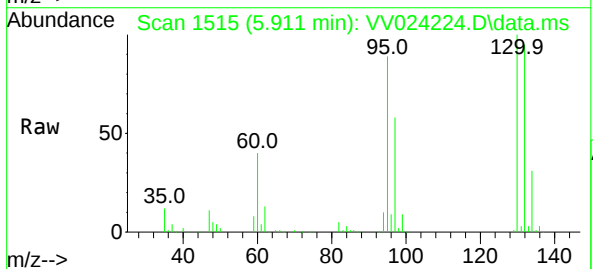
Instrument :
MSVOA_V
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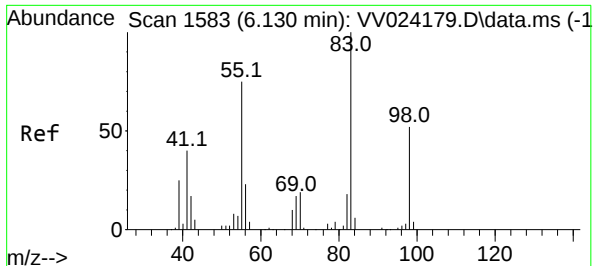
Tgt Ion:117 Resp: 17062
Ion Ratio Lower Upper
117 100
119 100.0 76.6 114.8



#34
Trichloroethene
Concen: 22.645 ug/L
RT: 5.911 min Scan# 1515
Delta R.T. -0.000 min
Lab File: VV024224.D
Acq: 28 Dec 2021 17:35

Tgt Ion: 95 Resp: 277162
Ion Ratio Lower Upper
95 100
97 64.8 45.2 84.0
132 106.3 76.1 141.3
130 112.3 75.4 140.0





#35

Methylcyclohexane

Concen: 0.610 ug/L

RT: 6.072 min Scan# 1565

Delta R.T. -0.058 min

Lab File: VV024224.D

Acq: 28 Dec 2021 17:35

Instrument :

MSVOA_V

ClientSampleId :

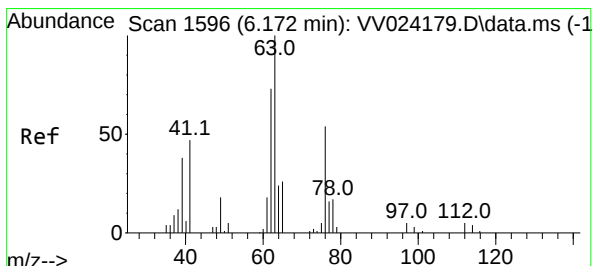
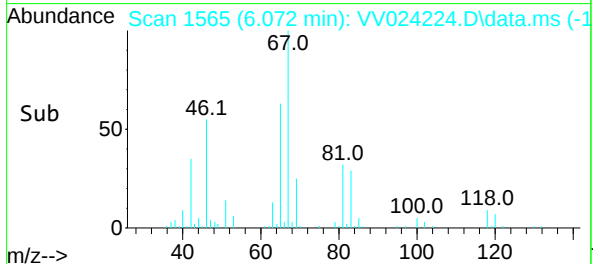
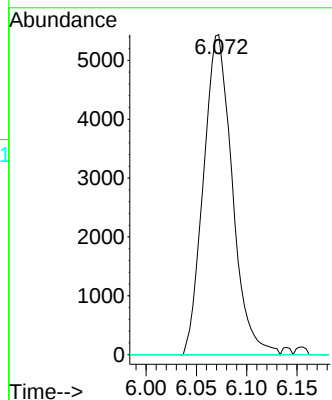
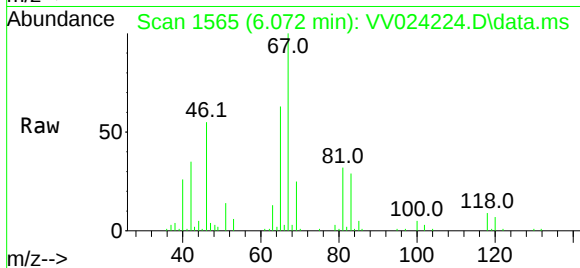
Tgt Ion: 83 Resp: 10811

Ion Ratio Lower Upper

83 100

55 0.0 60.2 90.2#

98 0.0 41.0 61.4#



#37

1,2-Dichloropropane

Concen: 0.519 ug/L

RT: 6.072 min Scan# 1565

Delta R.T. -0.100 min

Lab File: VV024224.D

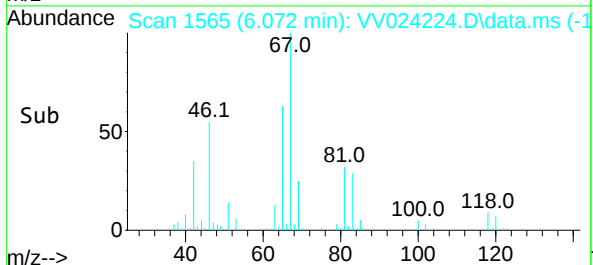
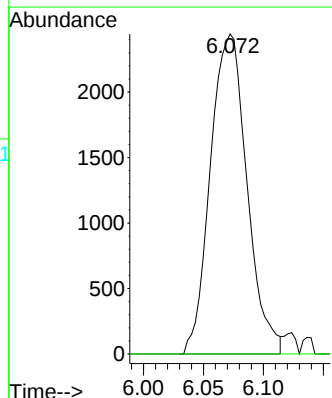
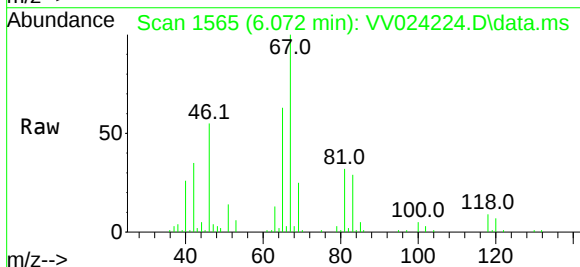
Acq: 28 Dec 2021 17:35

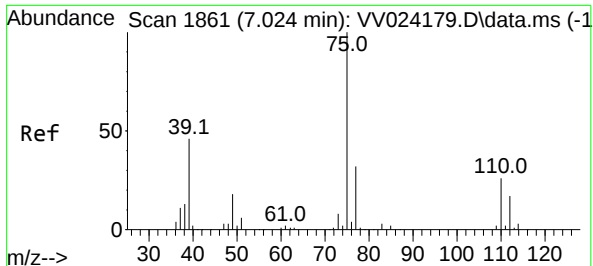
Tgt Ion: 63 Resp: 5190

Ion Ratio Lower Upper

63 100

112 0.0 4.3 6.5#





#39

cis-1,3-Dichloropropene

Concen: 0.093 ug/L

RT: 6.995 min Scan# 11

Delta R.T. -0.032 min

Lab File: VV024224.D

Acq: 28 Dec 2021 17:35

Instrument :

MSVOA_V

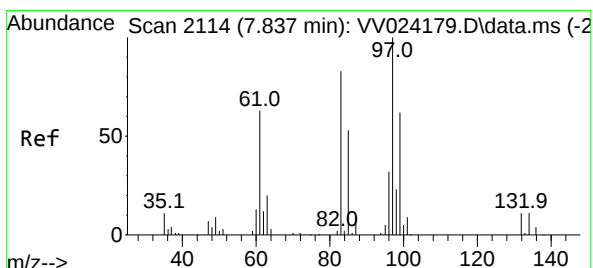
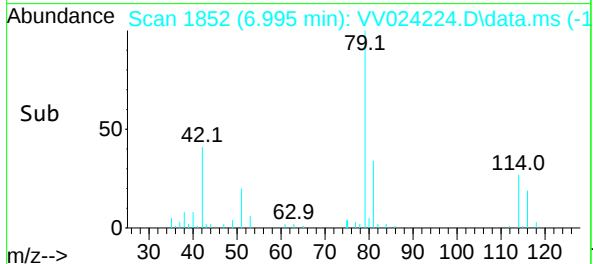
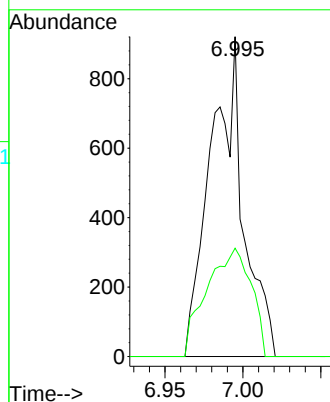
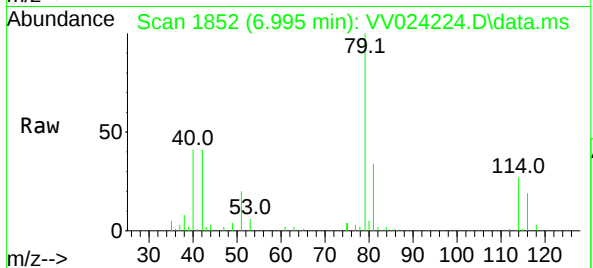
ClientSampleId :

Tgt Ion: 75 Resp: 1351

Ion Ratio Lower Upper

75 100

77 33.9 22.0 41.0



#45

1,1,2-Trichloroethane

Concen: 0.079 ug/L

RT: 7.850 min Scan# 2118

Delta R.T. 0.013 min

Lab File: VV024224.D

Acq: 28 Dec 2021 17:35

Tgt Ion: 97 Resp: 584

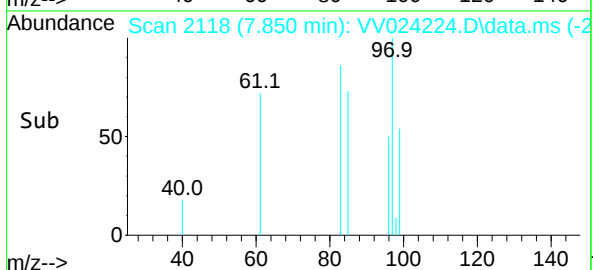
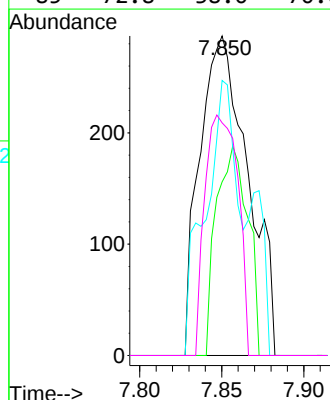
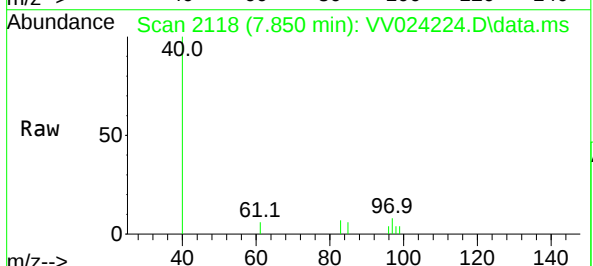
Ion Ratio Lower Upper

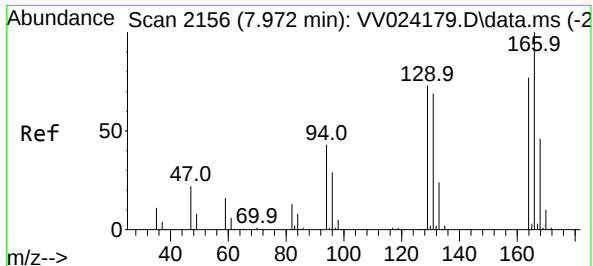
97 100

99 54.4 43.1 80.1

83 86.1 57.9 107.5

85 72.8 38.0 70.6#





#47

Tetrachloroethene

Concen: 0.083 ug/L

RT: 7.979 min Scan# 2157

Delta R.T. 0.003 min

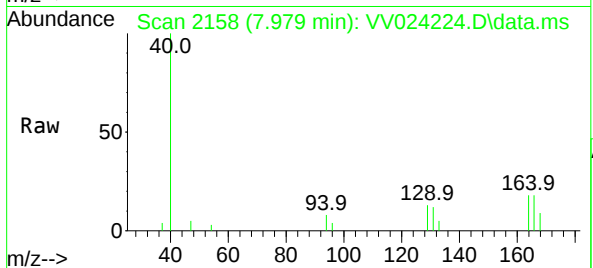
Lab File: VV024224.D

Acq: 28 Dec 2021 17:35

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 903

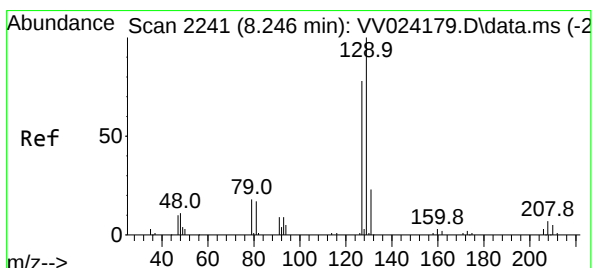
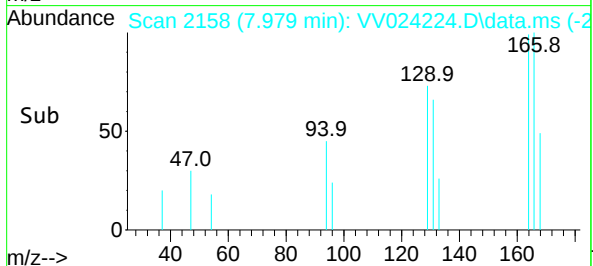
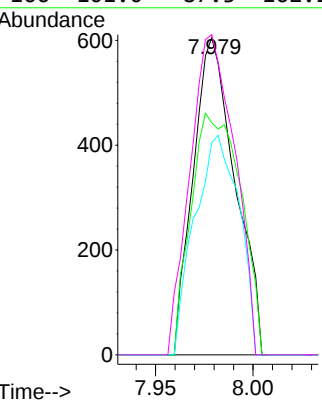
Ion Ratio Lower Upper

164 100

129 73.2 62.6 116.2

131 66.9 61.0 113.4

166 101.0 87.3 162.1



#49

Dibromochloromethane

Concen: 0.082 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. -0.270 min

Lab File: VV024224.D

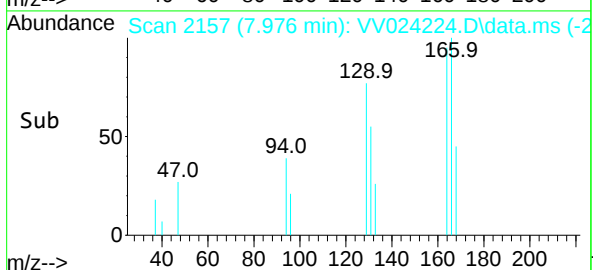
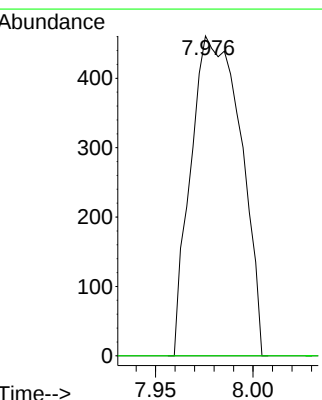
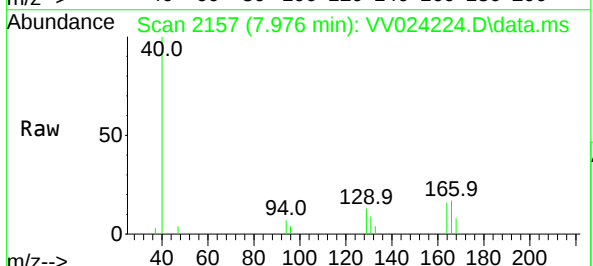
Acq: 28 Dec 2021 17:35

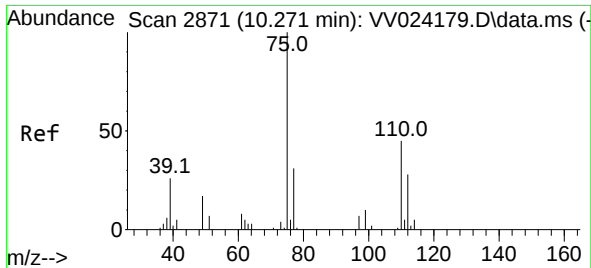
Tgt Ion:129 Resp: 820

Ion Ratio Lower Upper

129 100

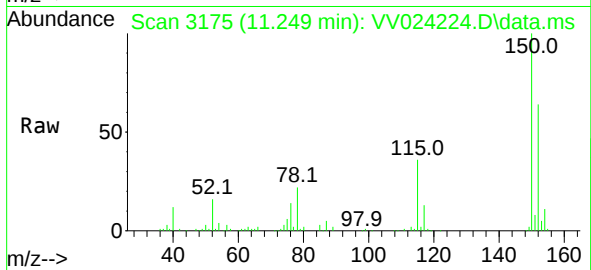
127 0.0 53.5 99.3#





#61
 1,2,3-Trichloropropane
 Concen: 0.816 ug/L
 RT: 11.249 min Scan# 31
 Delta R.T. 0.974 min
 Lab File: VV024224.D
 Acq: 28 Dec 2021 17:35

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:	75	Resp:	4153
Ion	Ratio	Lower	Upper
75	100		
77	33.1	26.4	39.6
110	1.9	34.2	51.2#

