

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101422\
 Data File : VW028558.D
 Acq On : 14 Oct 2022 19:13
 Operator : SY/MD
 Sample : N5109-05
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFZ08

Quant Time: Oct 15 02:59:30 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR101422WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Oct 15 02:57:21 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	242722	5.000	ug/L	0.02
28) Chlorobenzene-d5	8.847	117	222739	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.243	152	103240	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	118314	5.664	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	113.200%
7) Chloroethane-d5	1.564	69	92120	5.364	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.200%
11) 1,1-Dichloroethene-d2	2.105	63	158798	4.197	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.000%
20) 2-Butanone-d5	3.905	46	109859	24.464	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	48.920%
24) Chloroform-d	4.346	84	140622	4.396	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.000%
26) 1,2-Dichloroethane-d4	5.031	65	70572	4.233	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.600%
32) Benzene-d6	5.047	84	305044	4.241	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.800%
36) 1,2-Dichloropropane-d6	6.066	67	97339	4.194	ug/L	0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.800%
41) Toluene-d8	7.310	98	259973	4.562	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.200%
43) trans-1,3-Dichloroprop...	7.622	79	25642	3.270	ug/L	0.01
Spiked Amount	5.000	Range	55 - 130	Recovery	=	65.400%
46) 2-Hexanone-d5	8.088	63	122506	36.200	ug/L	-0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	72.400%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	56262	4.071	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.400%
66) 1,2-Dichlorobenzene-d4	11.616	152	77516	4.550	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	40606	1.817	ug/L	98
6) Bromomethane	1.526	94	652	0.065	ug/L	89
8) Chloroethane	1.581	64	10665	0.736	ug/L #	63
10) 1,1,2-Trichloro-1,2,2-...	2.105	101	1527	0.095	ug/L #	35
12) 1,1-Dichloroethene	2.114	96	7426	0.492	ug/L #	1
15) Methyl Acetate	2.494	43	6578	0.882	ug/L #	62
17) Methyl tert-butyl Ether	2.770	73	4918	0.128	ug/L #	1
18) trans-1,2-Dichloroethene	2.761	96	4999	0.318	ug/L	89
19) 1,1-Dichloroethane	3.185	63	125452	3.542	ug/L	99
22) cis-1,2-Dichloroethene	3.905	96	117400	6.598	ug/L #	95
25) Chloroform	4.371	83	69949	2.084	ug/L	97
27) 1,2-Dichloroethane	5.140	62	9605	0.481	ug/L #	90
29) 1,1,1-Trichloroethane	4.606	97	29617	0.962	ug/L	98
30) Cyclohexane	4.667	56	7615	0.214	ug/L	93
31) Carbon tetrachloride	4.603	117	3762	0.155	ug/L	94
33) Benzene	5.098	78	22560	0.287	ug/L	100
34) Trichloroethene	5.915	95	5655	0.301	ug/L	93
35) Methylcyclohexane	6.066	83	21269	0.680	ug/L #	17
45) 1,1,2-Trichloroethane	7.844	97	4590	0.412	ug/L	94

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

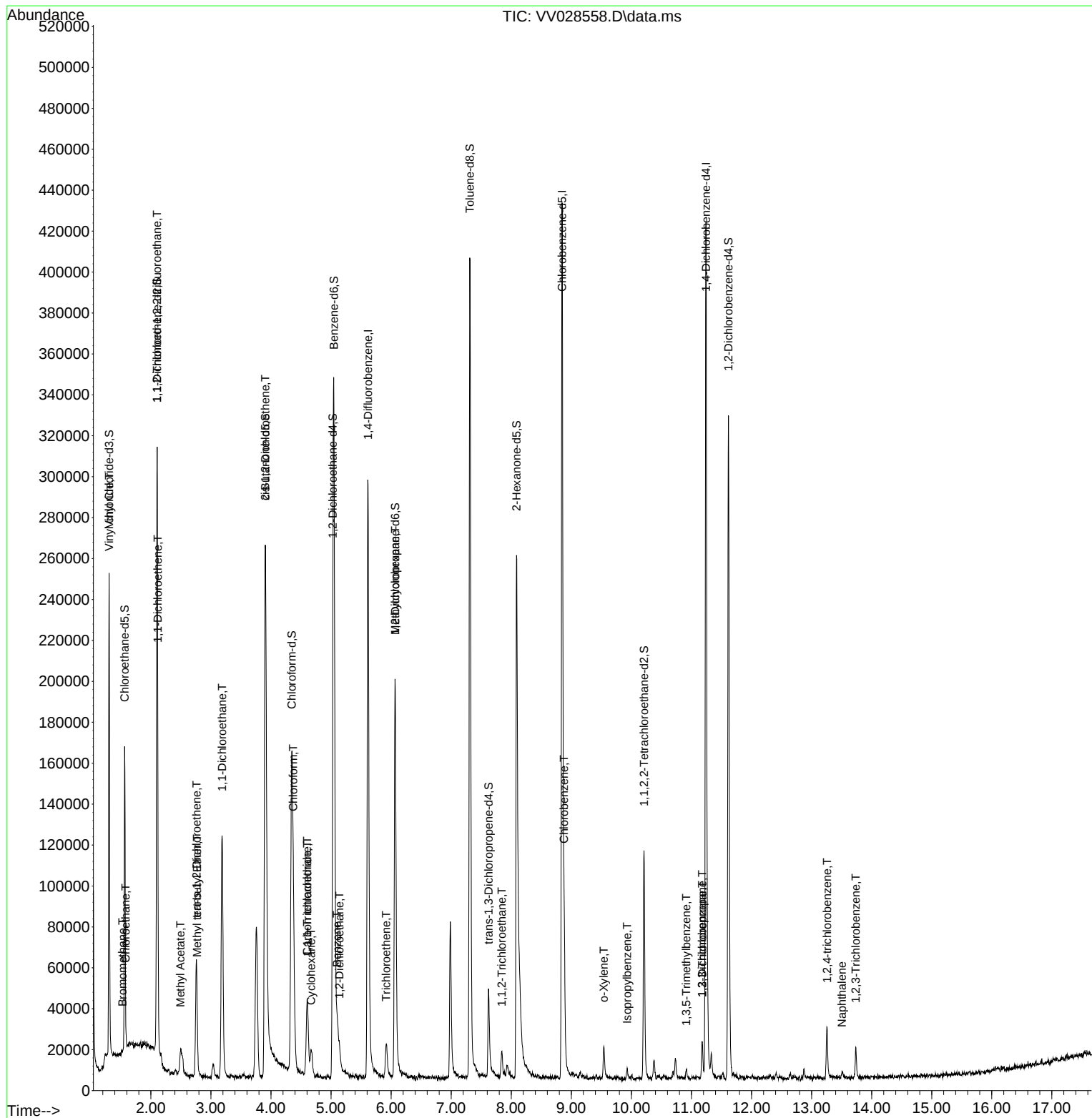
51) Chlorobenzene	8.879	112	40213	0.878	ug/L	98
54) o-Xylene	9.542	106	4016	0.135	ug/L	95
60) Isopropylbenzene	9.931	105	2736	0.036	ug/L #	85
61) 1,2,3-Trichloropropane	11.178	75	2767	0.300	ug/L #	53
62) 1,3,5-Trimethylbenzene	10.915	105	2196	0.097	ug/L	98
64) 1,3-Dichlorobenzene	11.178	146	6929	0.218	ug/L	95
70) 1,2,4-trichlorobenzene	13.259	180	6860	0.387	ug/L	99
71) Naphthalene	13.506	128	2307	0.087	ug/L	98
72) 1,2,3-Trichlorobenzene	13.738	180	3873	0.265	ug/L	96

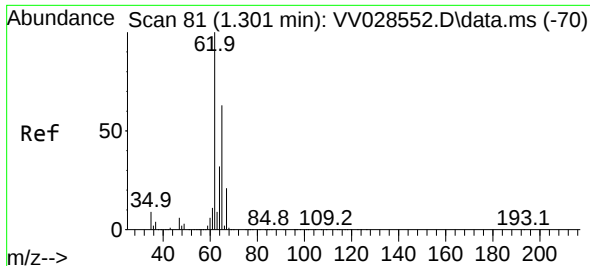
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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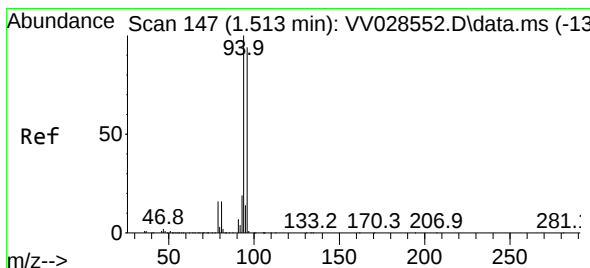
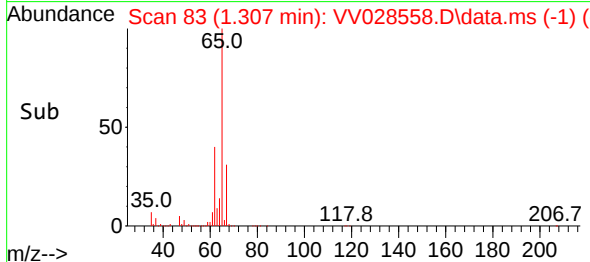
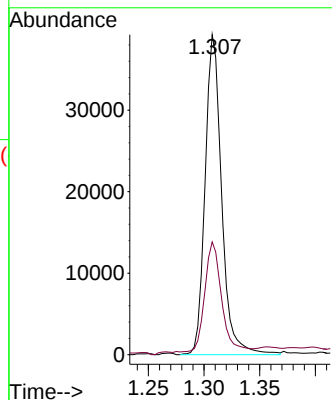
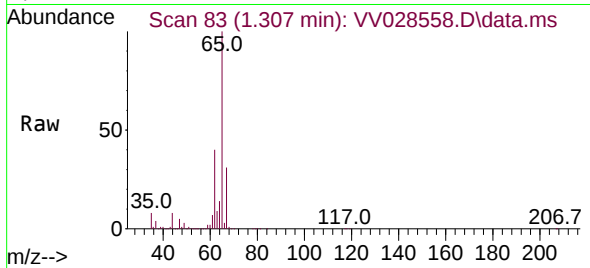




#5
 Vinyl chloride
 Concen: 1.817 ug/L
 RT: 1.307 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VV028558.D
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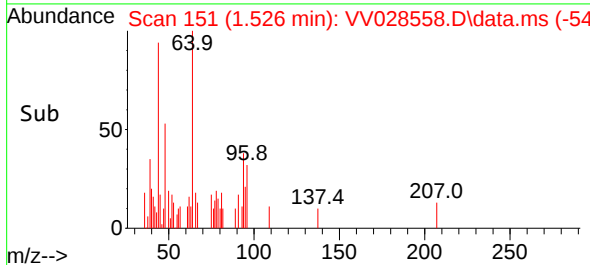
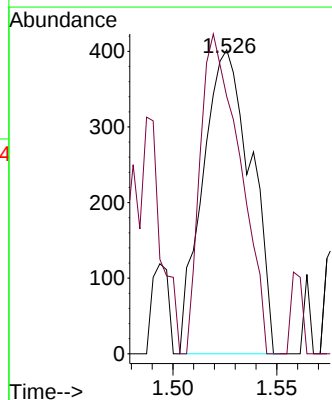
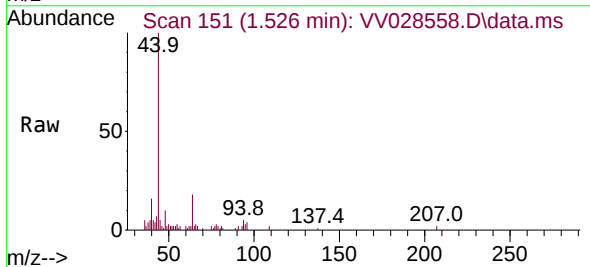
Instrument :
 MSVOA_V
 ClientSampleId :
 BFZ08

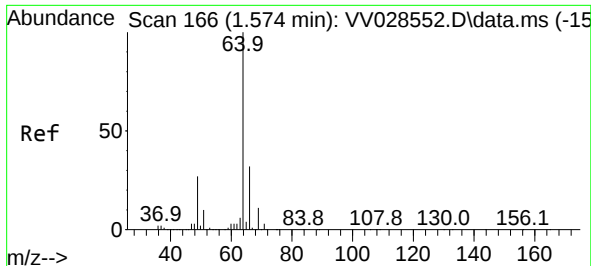
Tgt Ion: 62 Resp: 40606
 Ion Ratio Lower Upper
 62 100
 64 35.3 23.7 44.1



#6
 Bromomethane
 Concen: 0.065 ug/L
 RT: 1.526 min Scan# 151
 Delta R.T. 0.013 min
 Lab File: VV028558.D
 Acq: 14 Oct 2022 19:13

Tgt Ion: 94 Resp: 652
 Ion Ratio Lower Upper
 94 100
 96 84.6 67.0 124.4

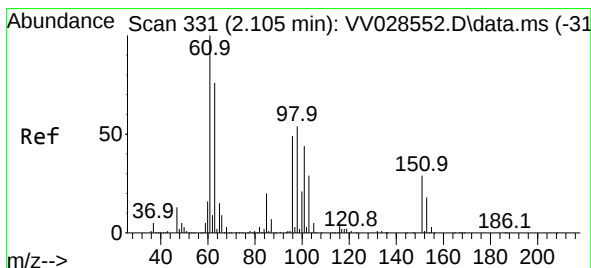
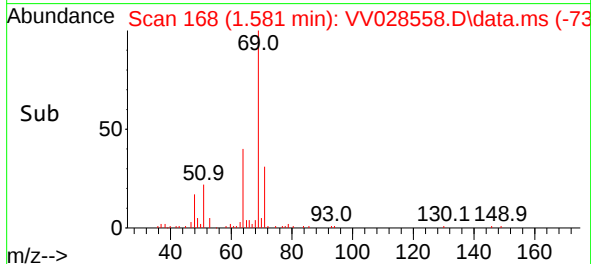
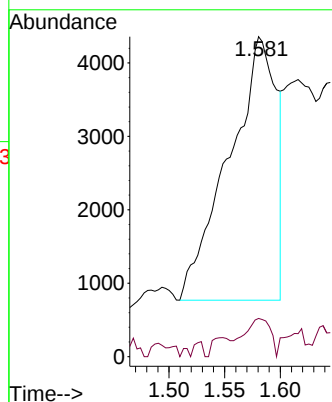
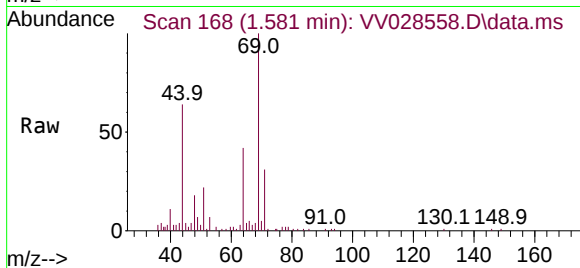




#8
Chloroethane
Concen: 0.736 ug/L
RT: 1.581 min Scan# 168
Delta R.T. 0.006 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

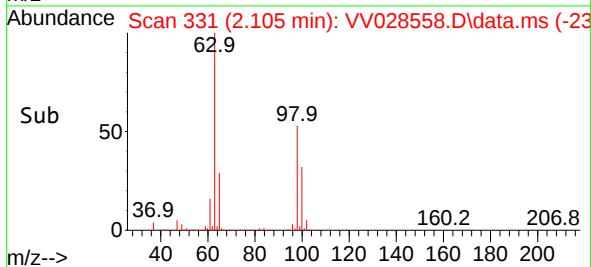
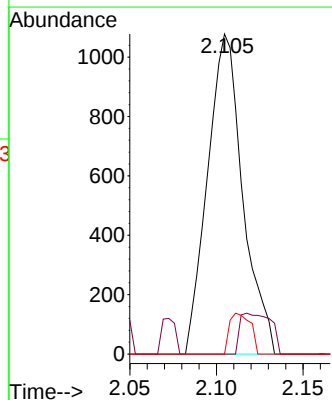
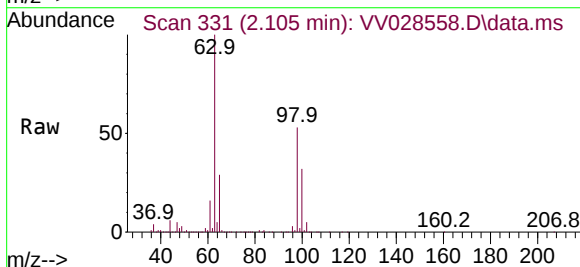
Instrument :
MSVOA_V
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BFZ08

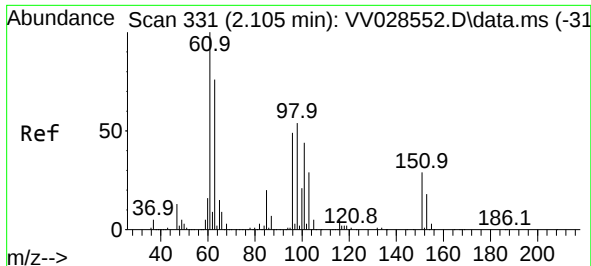
Tgt Ion: 64 Resp: 10665
Ion Ratio Lower Upper
64 100
66 12.0 23.0 42.8#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.095 ug/L
RT: 2.105 min Scan# 331
Delta R.T. 0.000 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

Tgt Ion:101 Resp: 1527
Ion Ratio Lower Upper
101 100
85 11.1 37.3 55.9#
151 7.6 52.8 79.2#

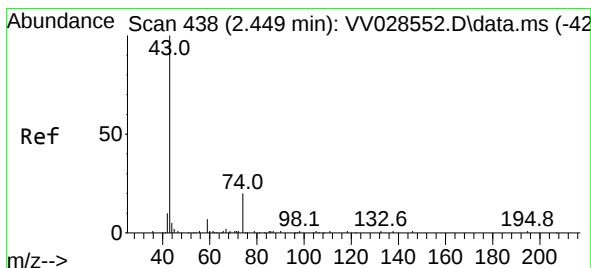
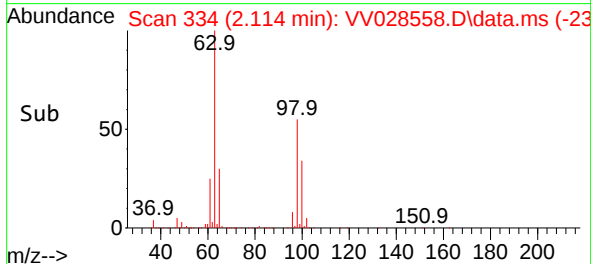
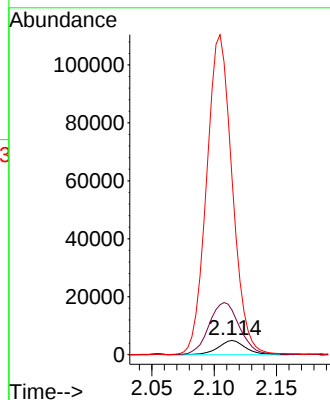
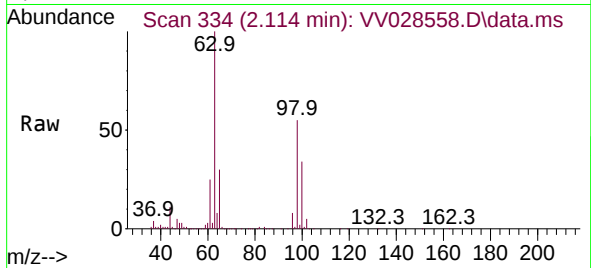




#12
1,1-Dichloroethene
Concen: 0.492 ug/L
RT: 2.114 min Scan# 31
Delta R.T. 0.010 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

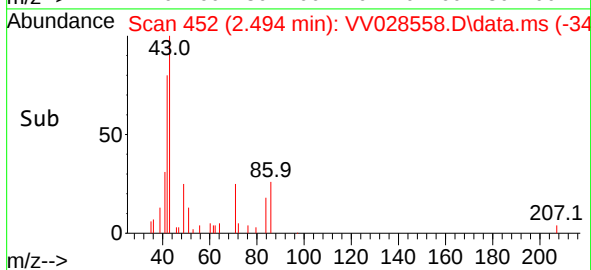
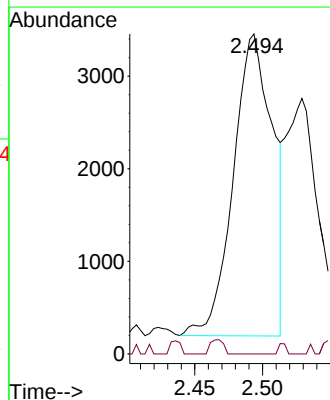
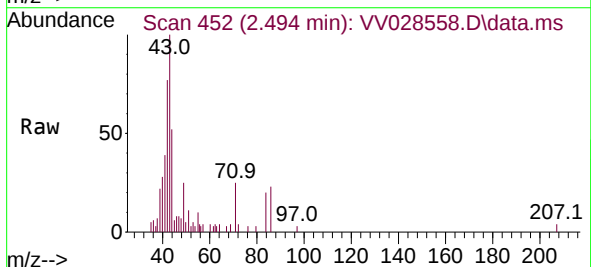
Instrument :
MSVOA_V
ClientSampleId :
BFZ08

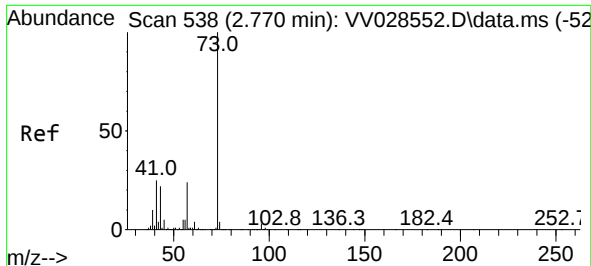
Tgt Ion: 96 Resp: 7426
Ion Ratio Lower Upper
96 100
61 311.0 142.9 265.5#
63 1232.1 102.3 190.1#



#15
Methyl Acetate
Concen: 0.882 ug/L
RT: 2.494 min Scan# 452
Delta R.T. 0.045 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

Tgt Ion: 43 Resp: 6578
Ion Ratio Lower Upper
43 100
74 0.7 13.8 20.6#





#17

Methyl tert-butyl Ether

Concen: 0.128 ug/L

RT: 2.770 min Scan# 51

Delta R.T. 0.000 min

Lab File: VV028558.D

Acq: 14 Oct 2022 19:13

Instrument :

MSVOA_V

ClientSampleId :

BFZ08

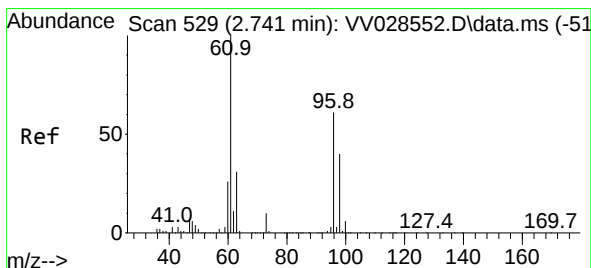
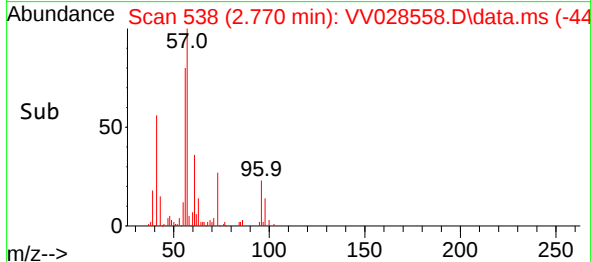
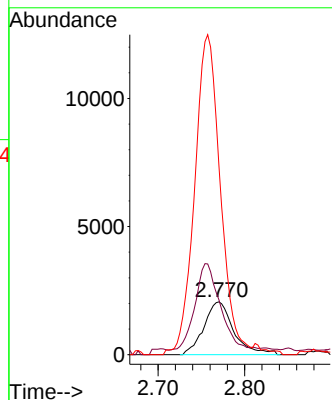
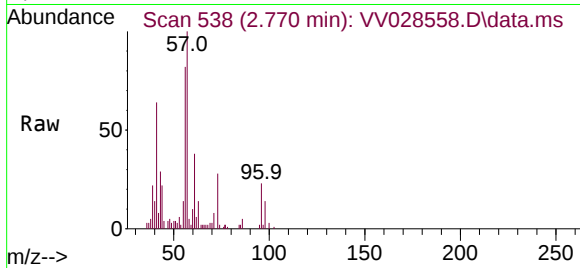
Tgt Ion: 73 Resp: 4918

Ion Ratio Lower Upper

73 100

43 139.4 18.2 27.2#

57 523.2 19.5 29.3#



#18

trans-1,2-Dichloroethene

Concen: 0.318 ug/L

RT: 2.761 min Scan# 535

Delta R.T. 0.019 min

Lab File: VV028558.D

Acq: 14 Oct 2022 19:13

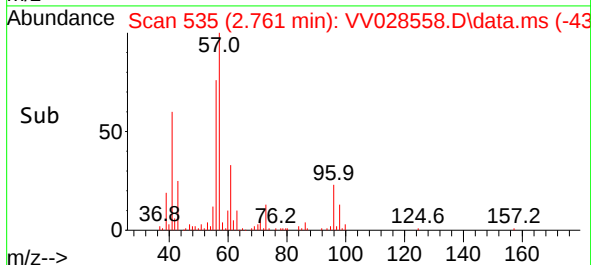
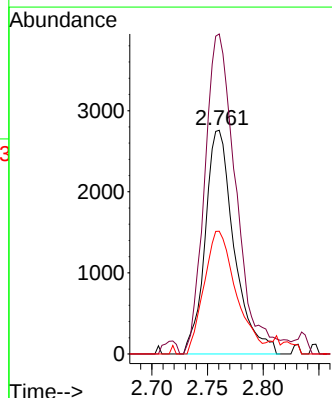
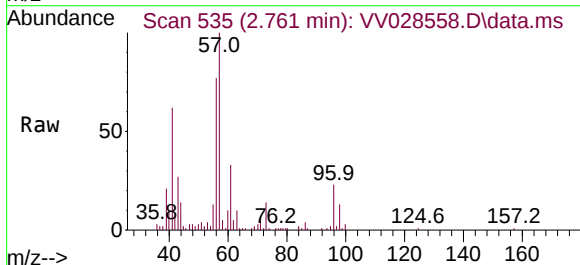
Tgt Ion: 96 Resp: 4999

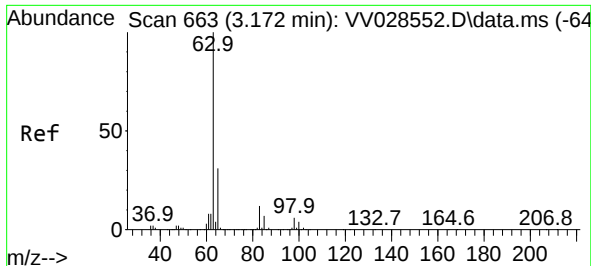
Ion Ratio Lower Upper

96 100

61 143.1 111.2 206.6

98 54.9 42.9 79.7





#19

1,1-Dichloroethane

Concen: 3.542 ug/L

RT: 3.185 min Scan# 60

Delta R.T. 0.013 min

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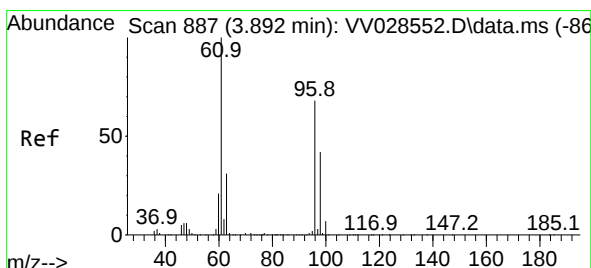
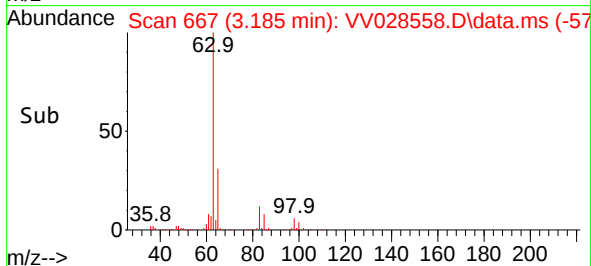
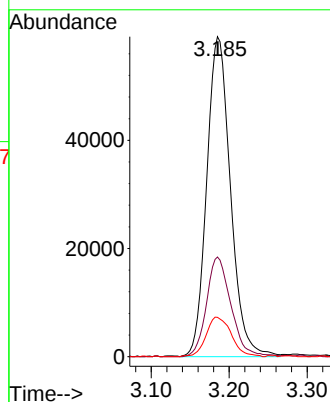
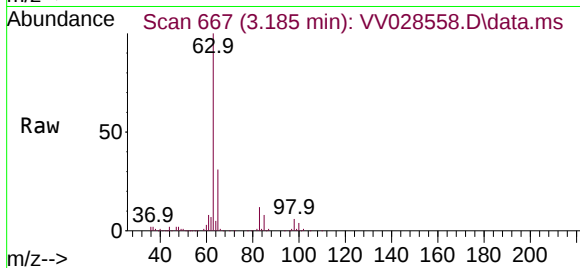
Tgt Ion: 63 Resp: 125452

Ion Ratio Lower Upper

63 100

65 31.2 22.3 41.5

83 12.3 8.5 15.7



#22

cis-1,2-Dichloroethene

Concen: 6.598 ug/L

RT: 3.905 min Scan# 891

Delta R.T. 0.013 min

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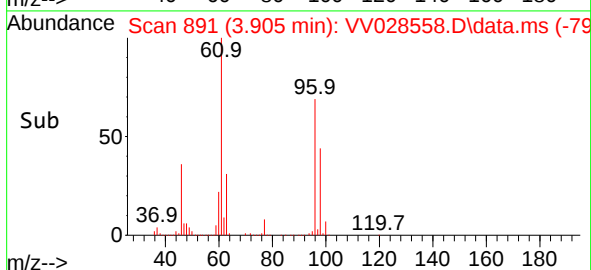
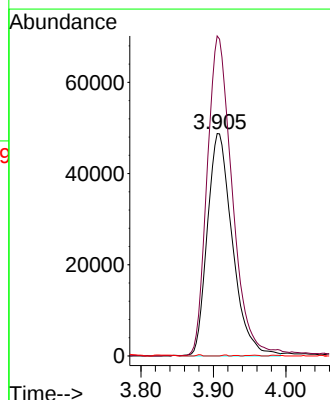
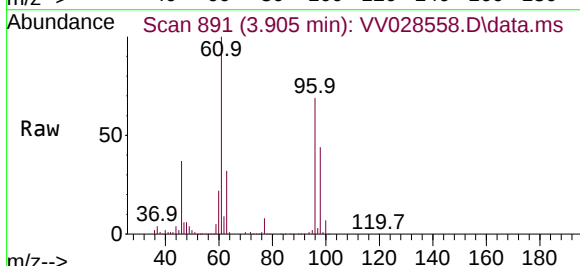
Tgt Ion: 96 Resp: 117400

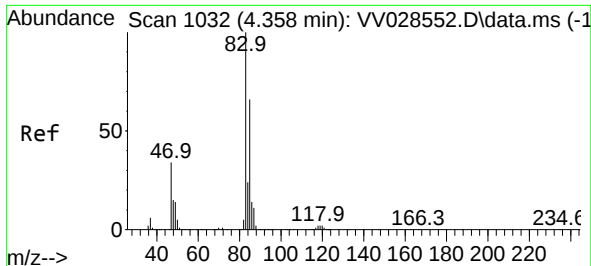
Ion Ratio Lower Upper

96 100

61 143.9 105.1 195.3

68 0.0 0.5 0.9

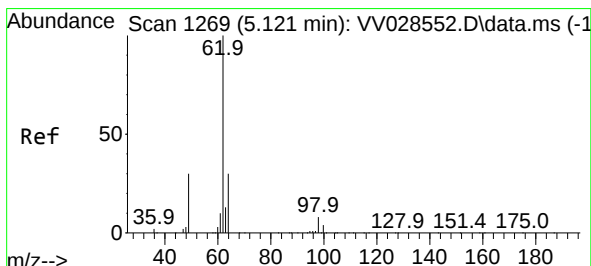
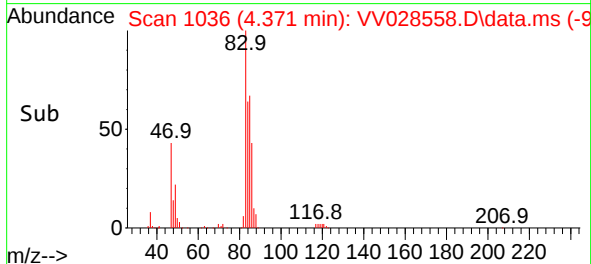
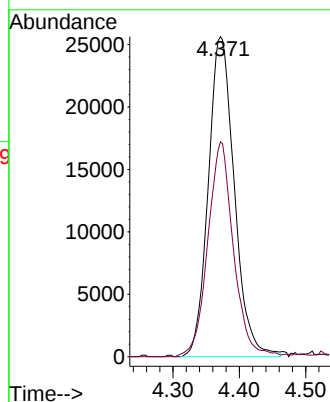
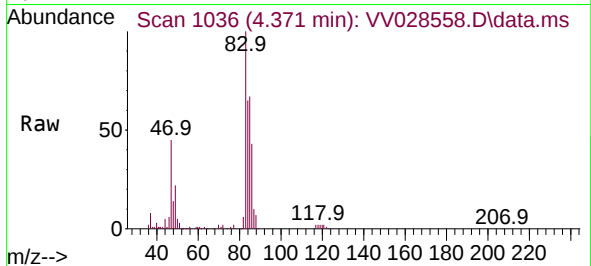




#25
Chloroform
Concen: 2.084 ug/L
RT: 4.371 min Scan# 1036
Delta R.T. 0.013 min
Lab File: VV028558.D
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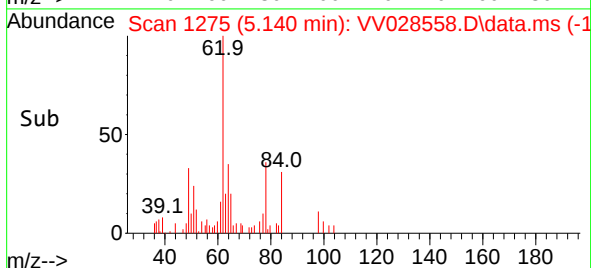
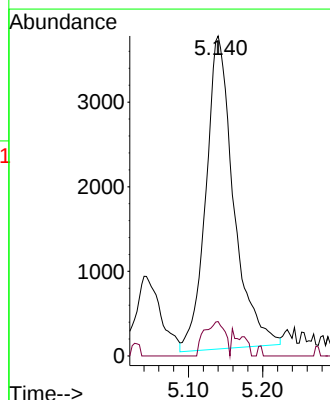
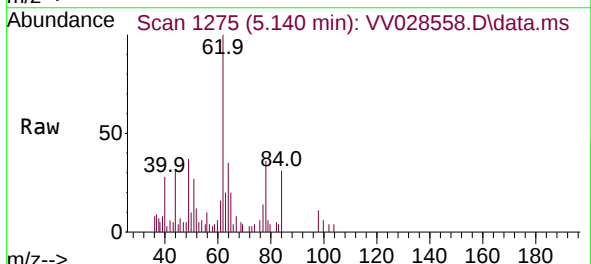
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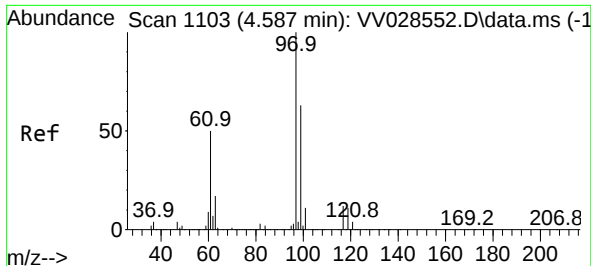
Tgt Ion: 83 Resp: 69949
Ion Ratio Lower Upper
83 100
85 67.2 45.1 83.9



#27
1,2-Dichloroethane
Concen: 0.481 ug/L
RT: 5.140 min Scan# 1275
Delta R.T. 0.019 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

Tgt Ion: 62 Resp: 9605
Ion Ratio Lower Upper
62 100
98 10.8 5.9 8.9#





#29

1,1,1-Trichloroethane

Concen: 0.962 ug/L

RT: 4.606 min Scan# 1109

Delta R.T. 0.019 min

Lab File: VV028558.D

Acq: 14 Oct 2022 19:13

Instrument :

MSVOA_V

ClientSampleId :

BFZ08

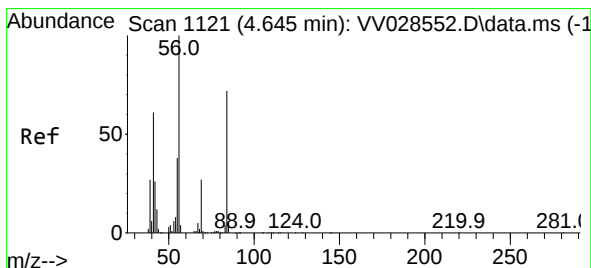
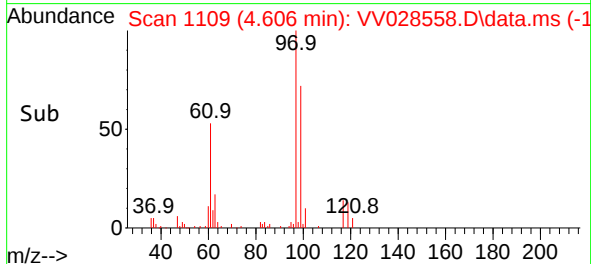
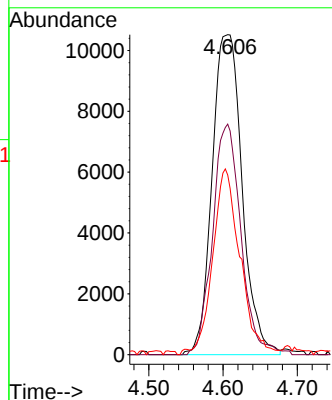
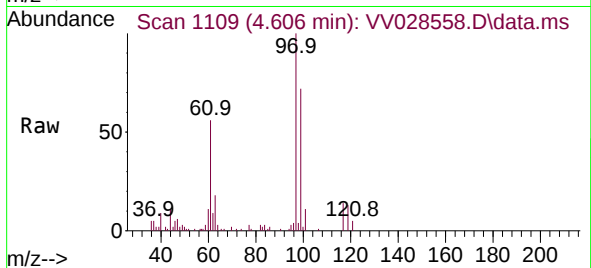
Tgt Ion: 97 Resp: 29617

Ion Ratio Lower Upper

97 100

99 68.0 52.6 78.8

61 52.9 42.1 63.1



#30

Cyclohexane

Concen: 0.214 ug/L

RT: 4.667 min Scan# 1128

Delta R.T. 0.023 min

Lab File: VV028558.D

Acq: 14 Oct 2022 19:13

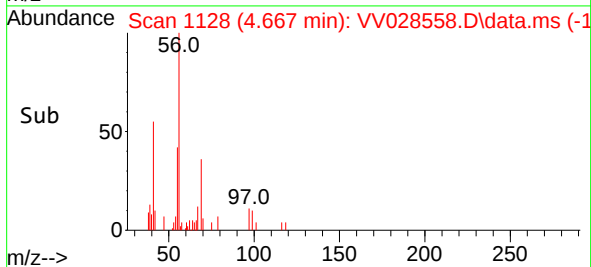
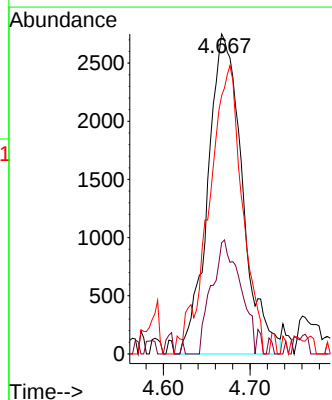
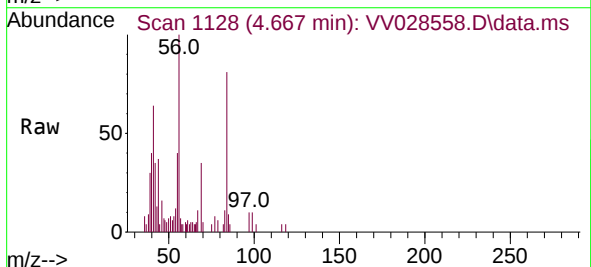
Tgt Ion: 56 Resp: 7615

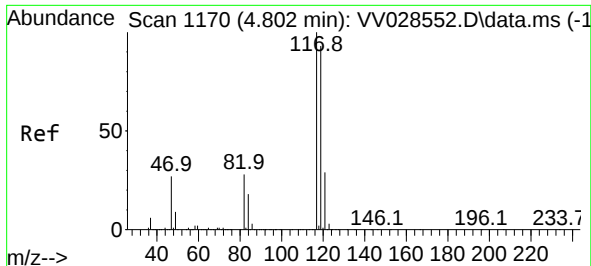
Ion Ratio Lower Upper

56 100

69 29.4 22.4 33.6

84 82.1 60.1 90.1

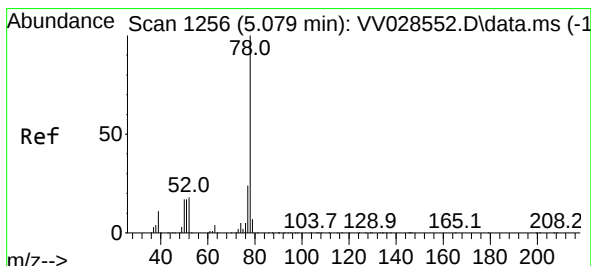
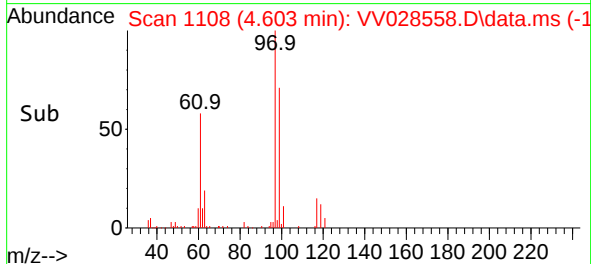
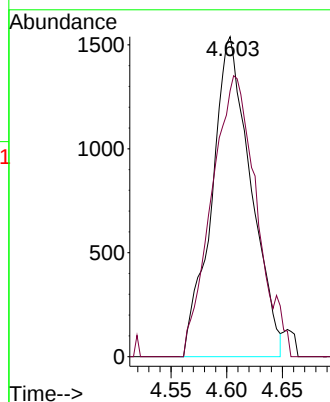
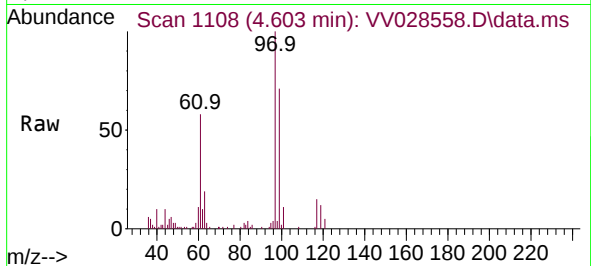




#31
Carbon tetrachloride
Concen: 0.155 ug/L
RT: 4.603 min Scan# 1170
Delta R.T. -0.199 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

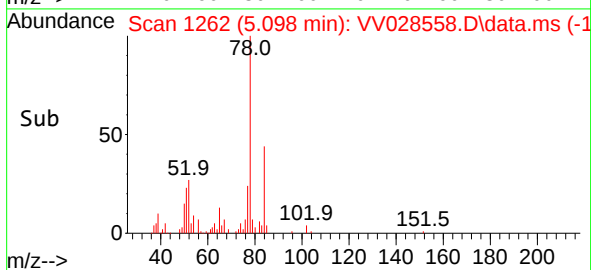
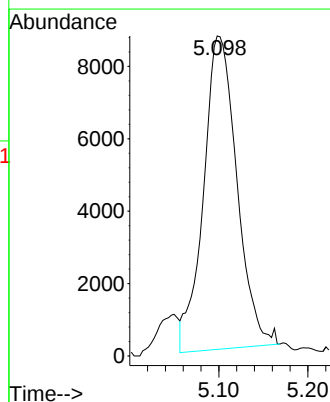
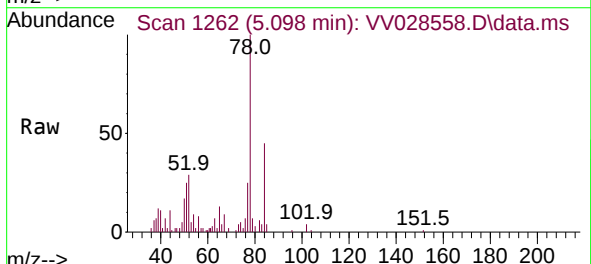
Instrument :
MSVOA_V
ClientSampleId :
BFZ08

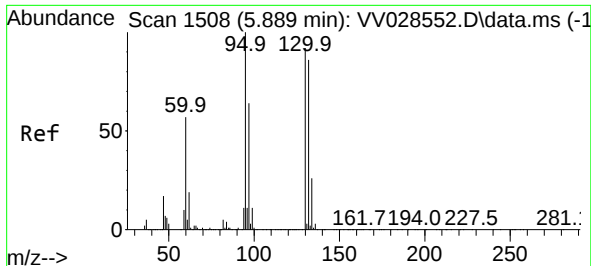
Tgt Ion:117 Resp: 3762
Ion Ratio Lower Upper
117 100
119 100.6 75.5 113.3



#33
Benzene
Concen: 0.287 ug/L
RT: 5.098 min Scan# 1262
Delta R.T. 0.019 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

Tgt Ion: 78 Resp: 22560

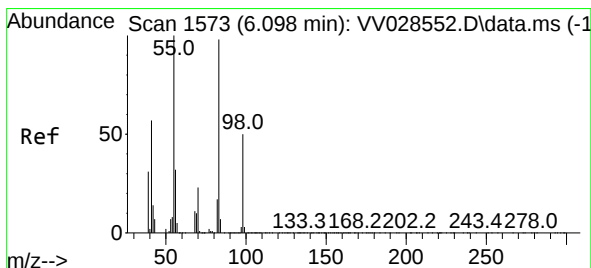
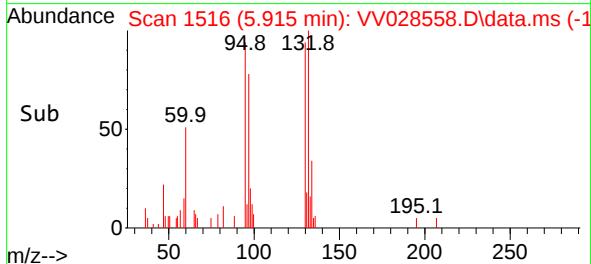
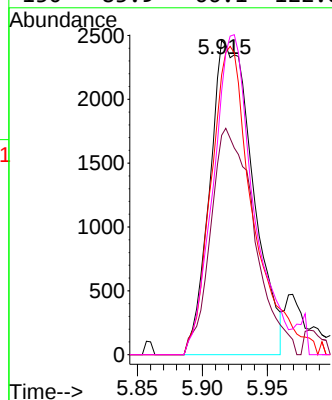
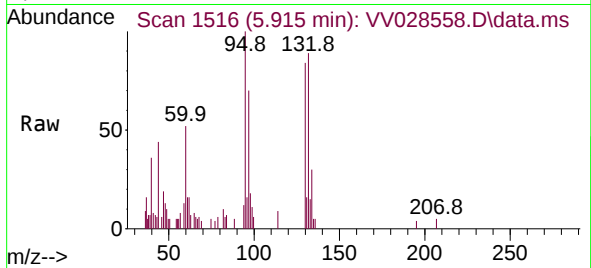




#34
Trichloroethene
Concen: 0.301 ug/L
RT: 5.915 min Scan# 11
Delta R.T. 0.026 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

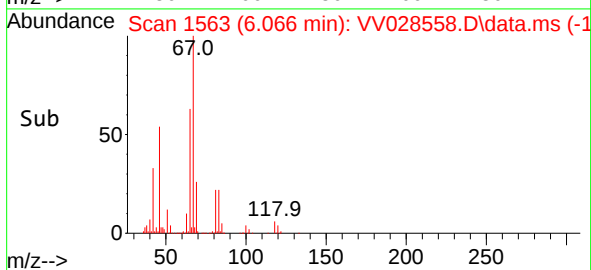
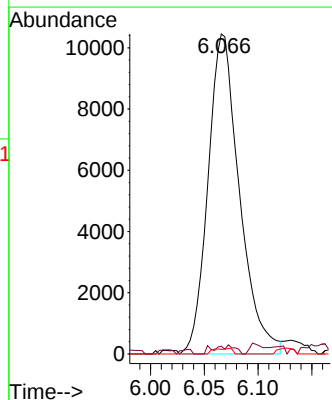
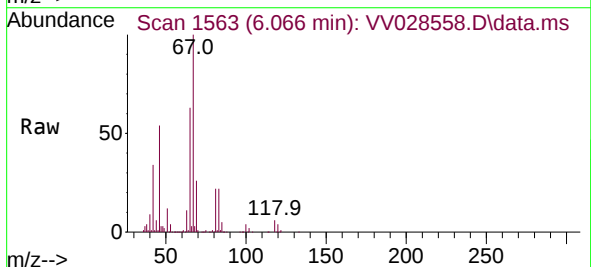
Instrument :
MSVOA_V
ClientSampleId :
BFZ08

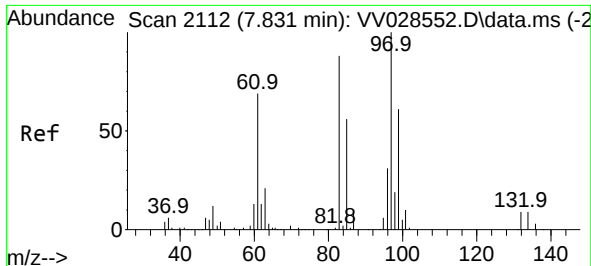
Tgt Ion:	95	Resp:	5655
Ion	Ratio	Lower	Upper
95	100		
97	69.8	46.2	85.8
132	89.1	65.1	120.9
130	83.9	66.1	122.8



#35
Methylcyclohexane
Concen: 0.680 ug/L
RT: 6.066 min Scan# 1563
Delta R.T. -0.032 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

Tgt Ion:	83	Resp:	21269
Ion	Ratio	Lower	Upper
83	100		
55	0.6	65.0	97.6#
98	0.0	36.4	54.6#

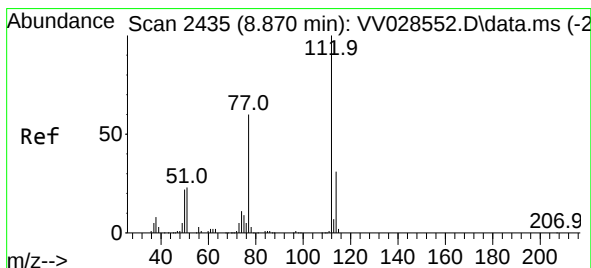
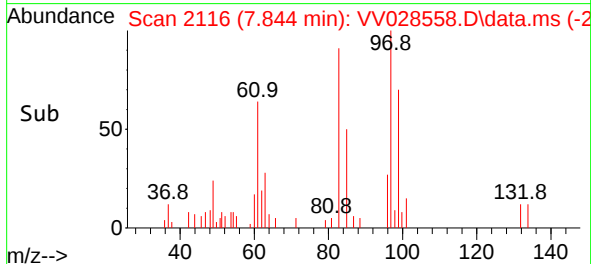
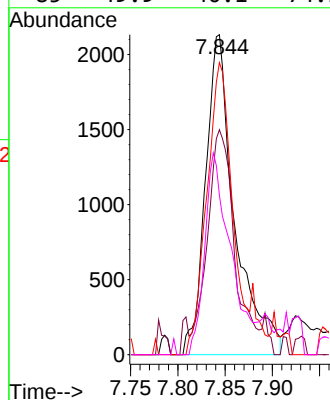
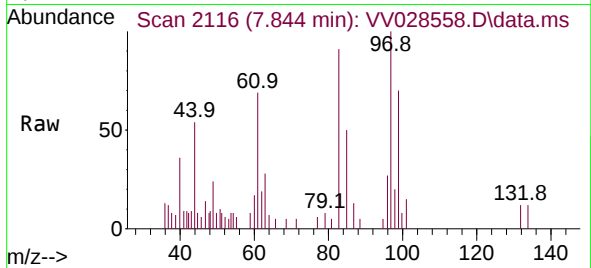




#45
1,1,2-Trichloroethane
Concen: 0.412 ug/L
RT: 7.844 min Scan# 2112
Delta R.T. 0.013 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

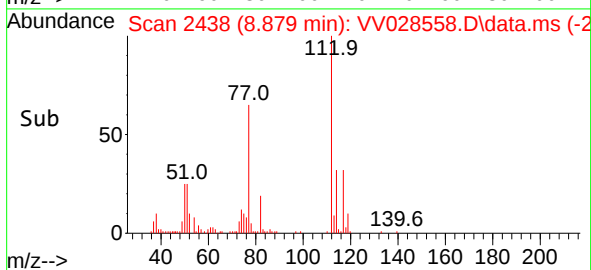
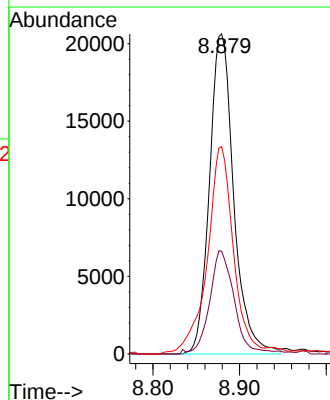
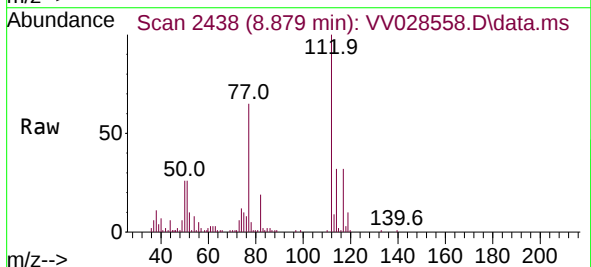
Instrument :
MSVOA_V
ClientSampleId :
BFZ08

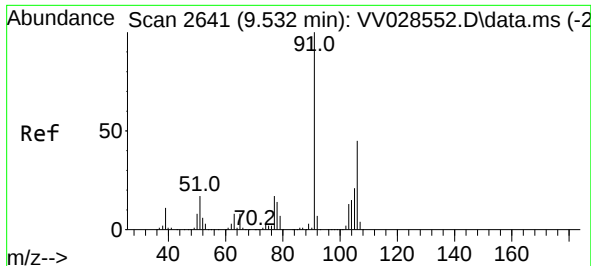
Tgt Ion: 97	Resp: 4590
Ion Ratio	Lower Upper
97 100	
99 70.3	44.4 82.4
83 91.2	63.1 117.1
85 49.9	40.1 74.5



#51
Chlorobenzene
Concen: 0.878 ug/L
RT: 8.879 min Scan# 2438
Delta R.T. 0.010 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

Tgt Ion:112	Resp:	40213	
Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.4	41.6
77	64.8	50.2	75.2

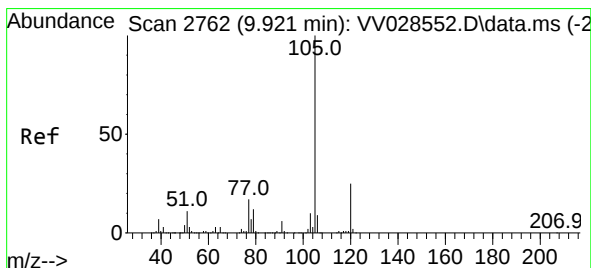
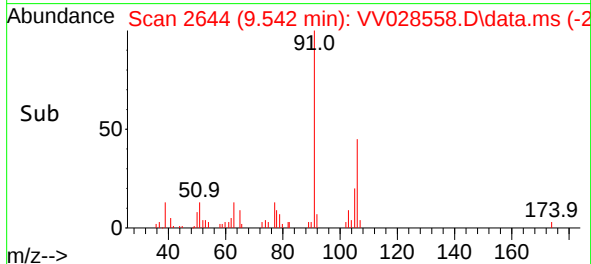
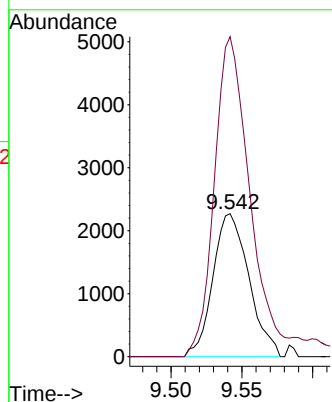
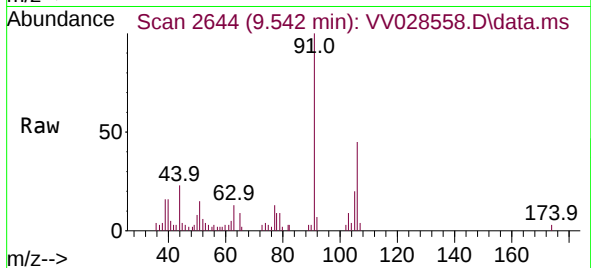




#54
o-Xylene
Concen: 0.135 ug/L
RT: 9.542 min Scan# 2644
Delta R.T. 0.010 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

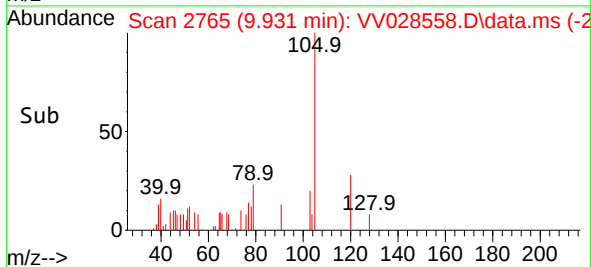
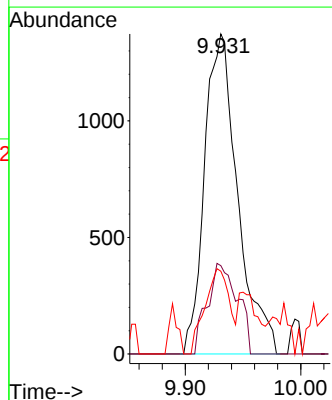
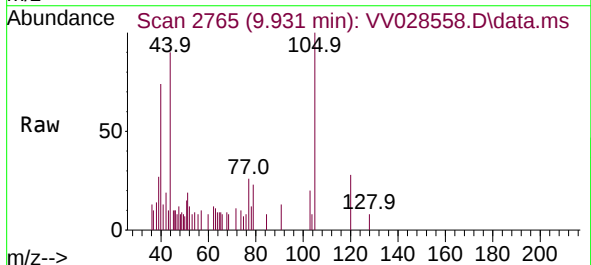
Instrument :
MSVOA_V
ClientSampleId :
BFZ08

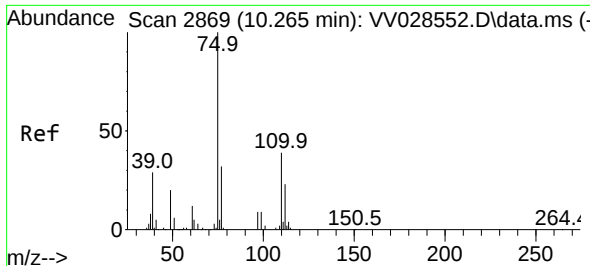
Tgt Ion:106 Resp: 4016
Ion Ratio Lower Upper
106 100
91 223.6 151.4 281.2



#60
Isopropylbenzene
Concen: 0.036 ug/L
RT: 9.931 min Scan# 2765
Delta R.T. 0.010 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

Tgt Ion:105 Resp: 2736
Ion Ratio Lower Upper
105 100
120 25.7 20.7 31.1
77 0.0 13.1 19.7#





#61

1,2,3-Trichloropropane

Concen: 0.300 ug/L

RT: 11.178 min Scan# 3153

Delta R.T. 0.913 min

Lab File: VV028558.D

Acq: 14 Oct 2022 19:13

Instrument :

MSVOA_V

ClientSampleId :

BFZ08

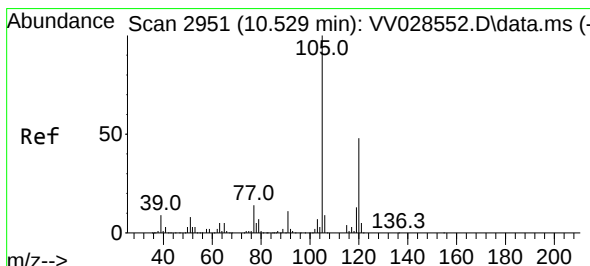
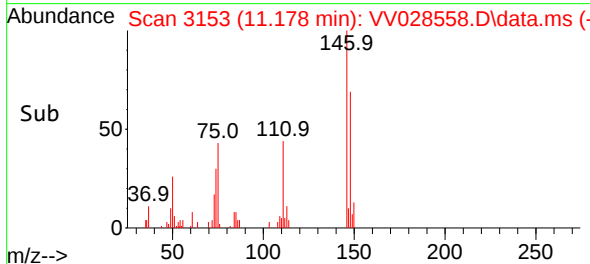
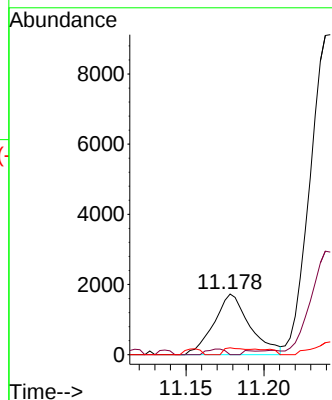
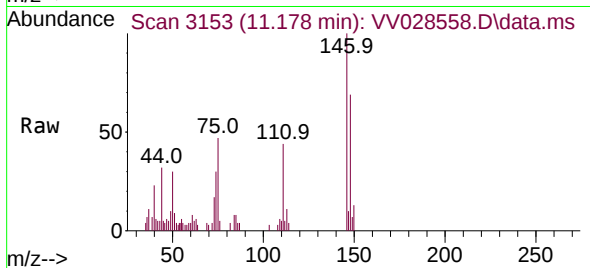
Tgt Ion: 75 Resp: 2767

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

110 12.1 28.3 42.5#



#62

1,3,5-Trimethylbenzene

Concen: 0.097 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. 0.386 min

Lab File: VV028558.D

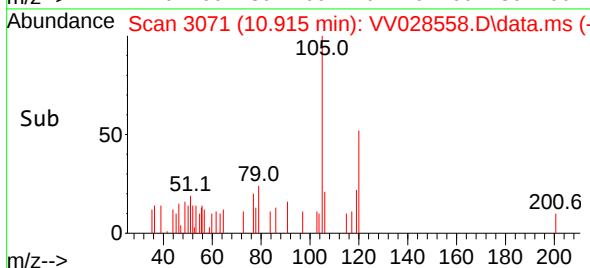
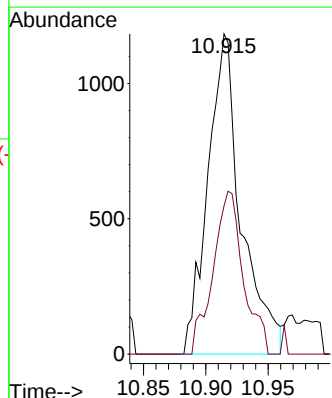
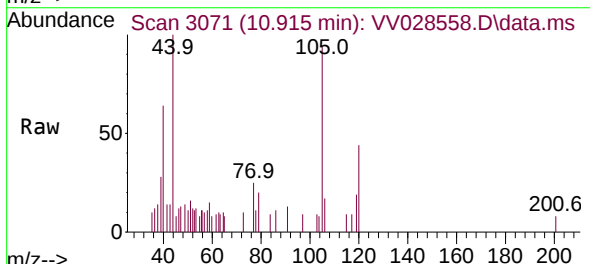
Acq: 14 Oct 2022 19:13

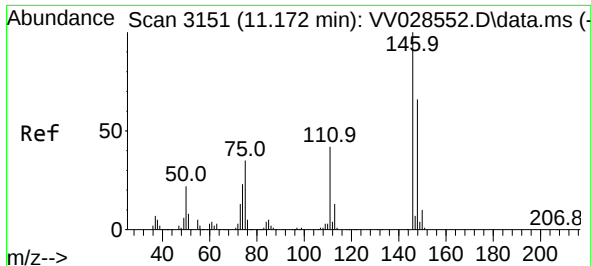
Tgt Ion: 105 Resp: 2196

Ion Ratio Lower Upper

105 100

120 46.4 38.0 57.0

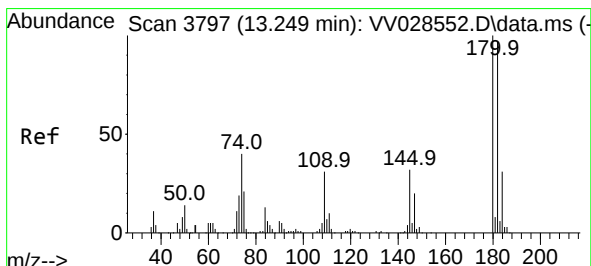
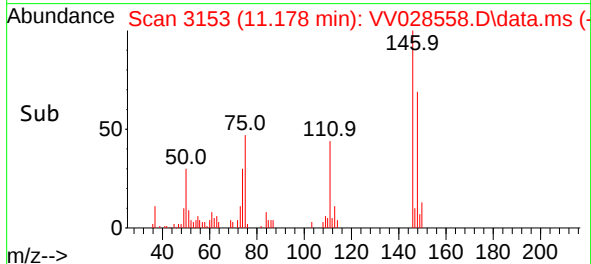
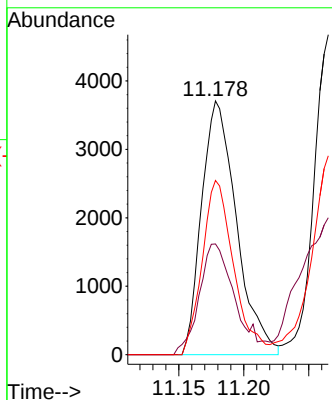
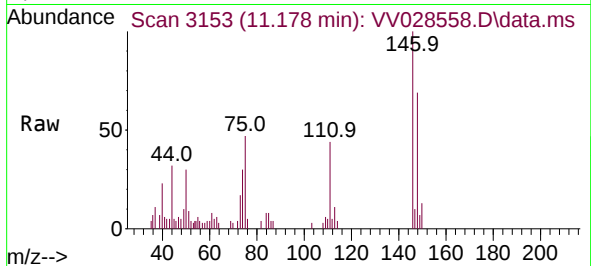




#64
1,3-Dichlorobenzene
Concen: 0.218 ug/L
RT: 11.178 min Scan# 3151
Delta R.T. 0.006 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

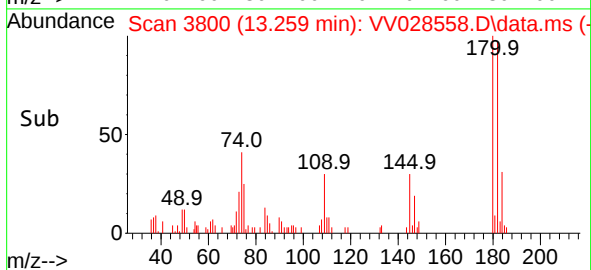
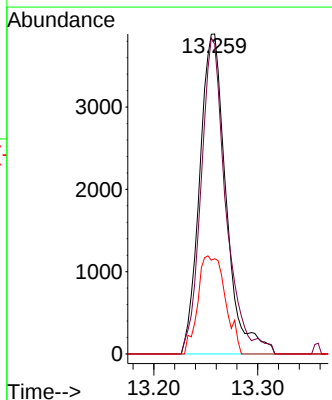
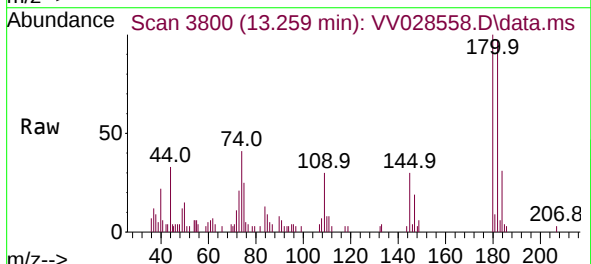
Instrument :
MSVOA_V
ClientSampleId :
BFZ08

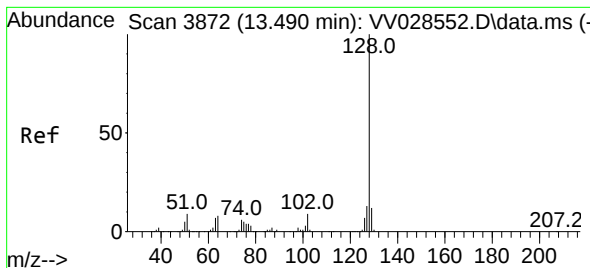
Tgt Ion:146 Resp: 6929
Ion Ratio Lower Upper
146 100
111 43.6 28.5 52.9
148 68.7 45.1 83.9



#70
1,2,4-trichlorobenzene
Concen: 0.387 ug/L
RT: 13.259 min Scan# 3800
Delta R.T. 0.010 min
Lab File: VV028558.D
Acq: 14 Oct 2022 19:13

Tgt Ion:180 Resp: 6860
Ion Ratio Lower Upper
180 100
182 93.2 74.2 111.2
145 31.8 25.3 37.9





#71

Naphthalene

Concen: 0.087 ug/L

RT: 13.506 min Scan# 3877

Delta R.T. 0.016 min

Lab File: VV028558.D

Acq: 14 Oct 2022 19:13

Instrument :

MSVOA_V

ClientSampleId :

BFZ08

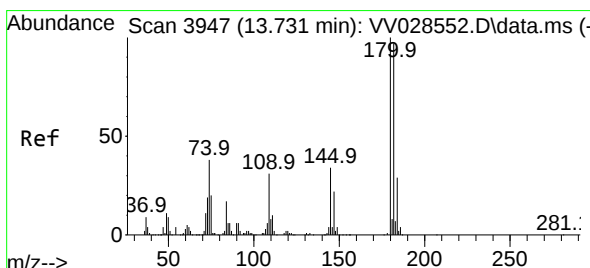
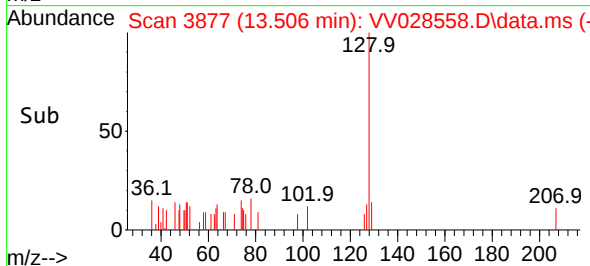
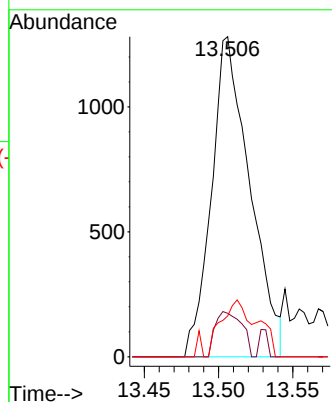
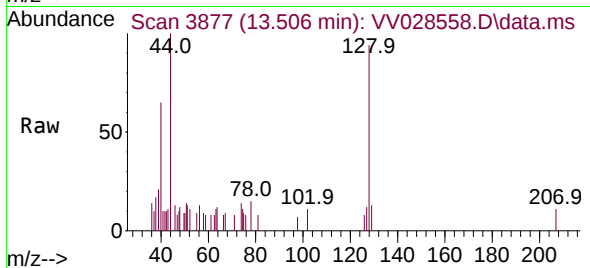
Tgt Ion:128 Resp: 2307

Ion Ratio Lower Upper

128 100

129 9.8 9.0 13.6

127 12.3 10.1 15.1



#72

1,2,3-Trichlorobenzene

Concen: 0.265 ug/L

RT: 13.738 min Scan# 3949

Delta R.T. 0.007 min

Lab File: VV028558.D

Acq: 14 Oct 2022 19:13

Tgt Ion:180 Resp: 3873

Ion Ratio Lower Upper

180 100

182 91.0 76.3 114.5

145 34.3 25.8 38.8

