

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101822\
 Data File : VW028606.D
 Acq On : 18 Oct 2022 11:33
 Operator : SY/MD
 Sample : N5023-19
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 19 00:36:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR101422WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Oct 19 00:35:12 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	188062	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	177458	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.242	152	81003	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	83711	5.172	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.400%
7) Chloroethane-d5	1.561	69	73228	5.503	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	110.000%
11) 1,1-Dichloroethene-d2	2.101	63	110587	3.772	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.400%
20) 2-Butanone-d5	3.941	46	118286	33.996	ug/L	0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	68.000%
24) Chloroform-d	4.346	84	126738	5.114	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.200%
26) 1,2-Dichloroethane-d4	5.034	65	66797	5.171	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.400%
32) Benzene-d6	5.047	84	253102	4.417	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.400%
36) 1,2-Dichloropropane-d6	6.069	67	87665	4.741	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.800%
41) Toluene-d8	7.313	98	207015	4.560	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.200%
43) trans-1,3-Dichloroprop...	7.622	79	24433	3.911	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.200%
46) 2-Hexanone-d5	8.095	63	122607	45.475	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.940%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	54944	4.990	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.800%
66) 1,2-Dichlorobenzene-d4	11.615	152	68788	5.146	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	1518	0.085	ug/L #	79
5) Vinyl chloride	1.307	62	1487	0.086	ug/L #	1
6) Bromomethane	1.519	94	1133	0.145	ug/L	80
8) Chloroethane	1.580	64	1078	0.096	ug/L	93
9) Trichlorofluoromethane	1.751	101	1421	0.067	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.105	101	1876	0.150	ug/L #	64
14) Carbon disulfide	2.288	76	2543	0.078	ug/L #	67
16) Methylene chloride	2.503	84	4289	0.260	ug/L	91
17) Methyl tert-butyl Ether	2.767	73	886	0.030	ug/L #	75
18) trans-1,2-Dichloroethene	2.767	96	887	0.073	ug/L #	65
19) 1,1-Dichloroethane	3.191	63	1735	0.063	ug/L	96
22) cis-1,2-Dichloroethene	3.918	96	501	0.036	ug/L #	56
25) Chloroform	4.371	83	5036	0.194	ug/L	92
29) 1,1,1-Trichloroethane	4.603	97	732	0.030	ug/L #	49
30) Cyclohexane	4.677	56	1414	0.050	ug/L #	35
31) Carbon tetrachloride	4.822	117	978	0.051	ug/L #	23
33) Benzene	5.098	78	2996	0.048	ug/L	100
35) Methylcyclohexane	6.069	83	18937	0.759	ug/L #	17
38) Bromodichloromethane	6.526	83	1206	0.066	ug/L #	96

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

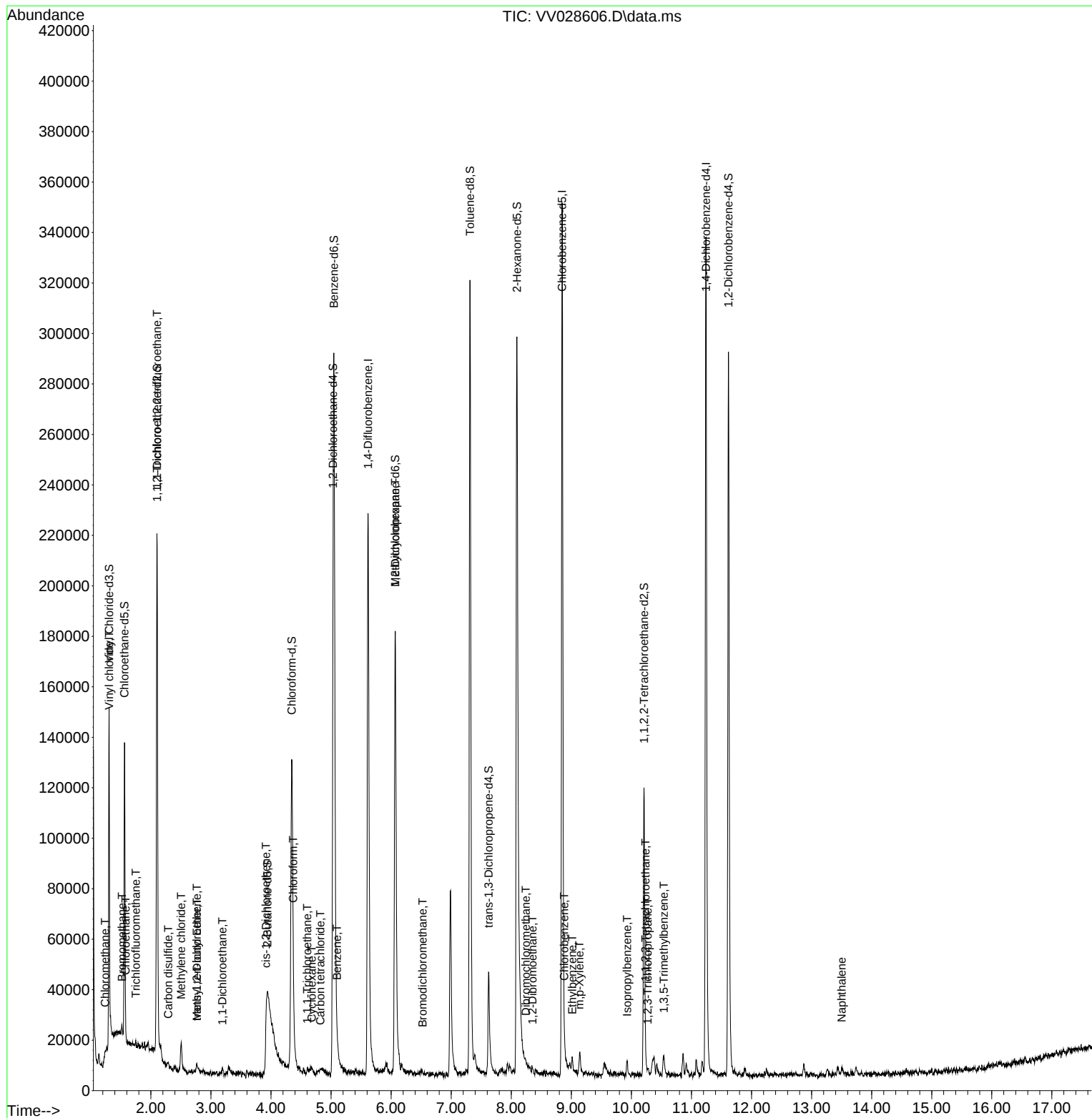
49) Dibromochloromethane	8.243	129	404	0.043	ug/L	79
50) 1,2-Dibromoethane	8.355	107	352	0.045	ug/L #	74
51) Chlorobenzene	8.882	112	2082	0.057	ug/L	92
52) Ethylbenzene	9.017	91	3307	0.051	ug/L	98
53) m,p-Xylene	9.136	106	2395	0.098	ug/L	78
57) 1,1,2,2-Tetrachloroethane	10.233	83	1051	0.096	ug/L #	77
60) Isopropylbenzene	9.931	105	3254	0.055	ug/L #	89
61) 1,2,3-Trichloropropane	10.271	75	527	0.073	ug/L #	54
62) 1,3,5-Trimethylbenzene	10.538	105	2518	0.142	ug/L	99
71) Naphthalene	13.503	128	2036	0.098	ug/L #	88

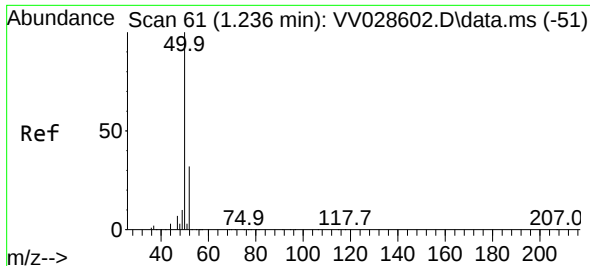
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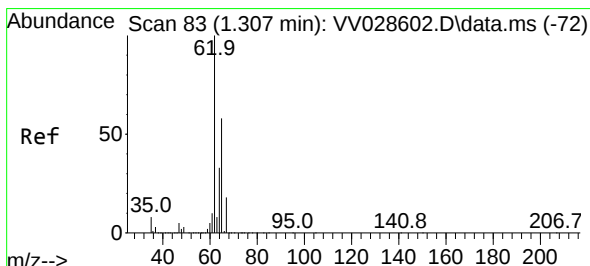
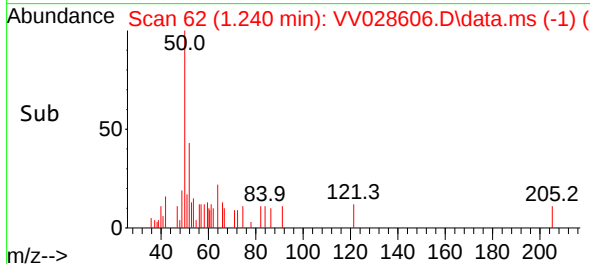
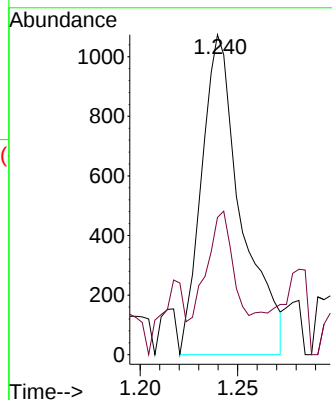
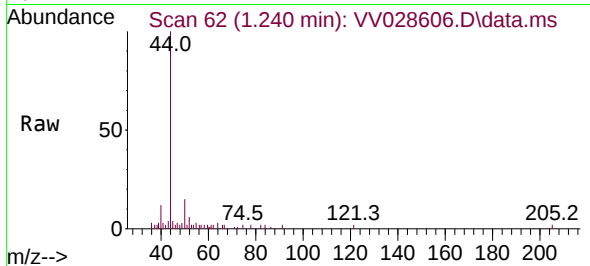




#3
Chloromethane
Concen: 0.085 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

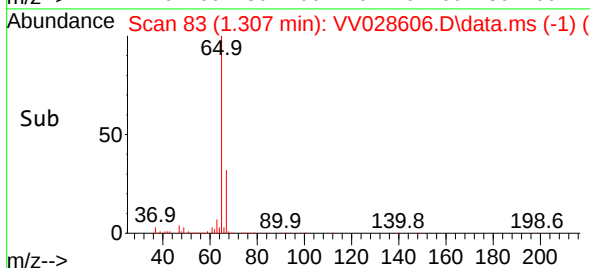
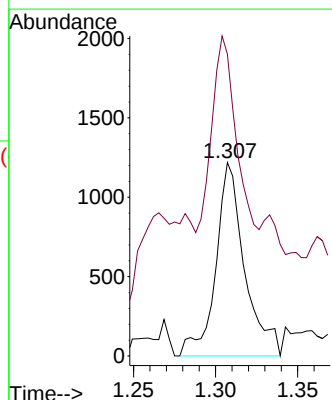
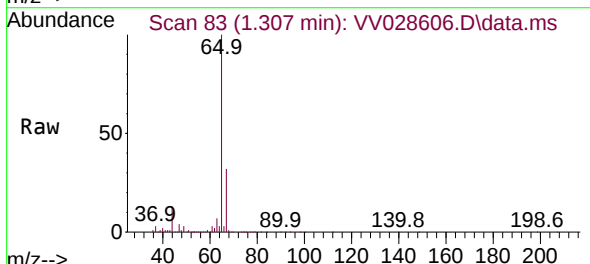
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MSVOA_V
ClientSampleId :

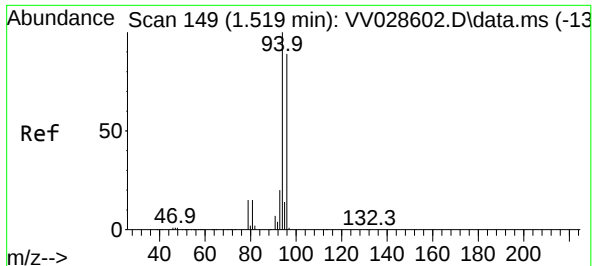
Tgt Ion: 50 Resp: 1518
Ion Ratio Lower Upper
50 100
52 42.9 22.0 41.0#



#5
Vinyl chloride
Concen: 0.086 ug/L
RT: 1.307 min Scan# 83
Delta R.T. 0.000 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

Tgt Ion: 62 Resp: 1487
Ion Ratio Lower Upper
62 100
64 155.9 23.7 44.1#

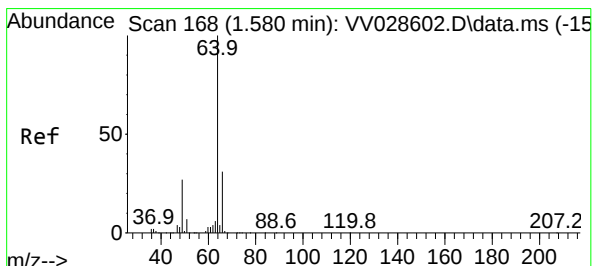
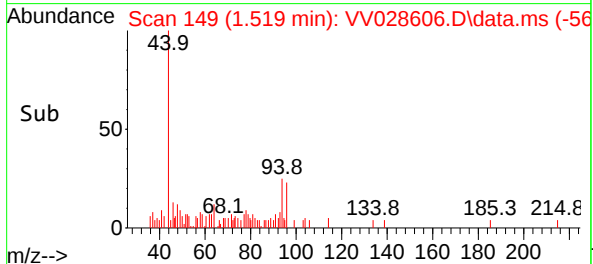
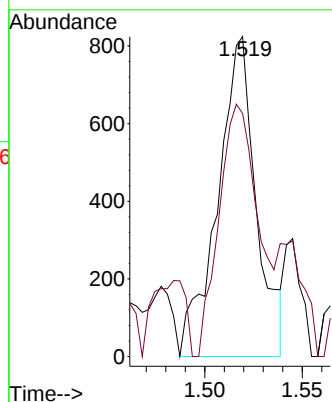
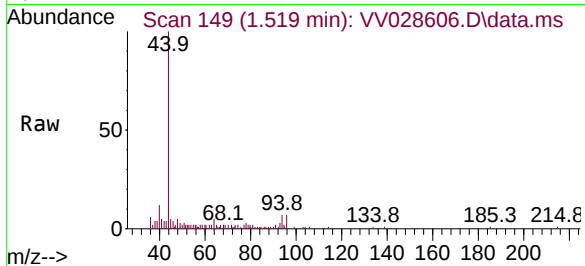




#6
Bromomethane
Concen: 0.145 ug/L
RT: 1.519 min Scan# 149
Delta R.T. 0.000 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

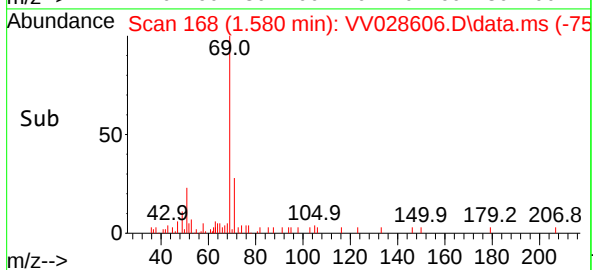
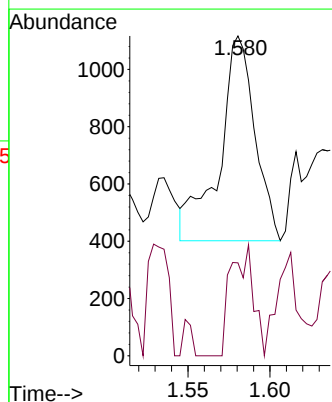
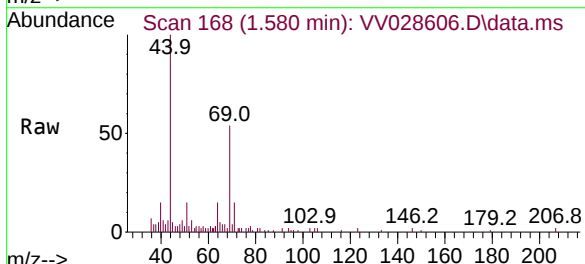
Instrument :
MSVOA_V
ClientSampleId :

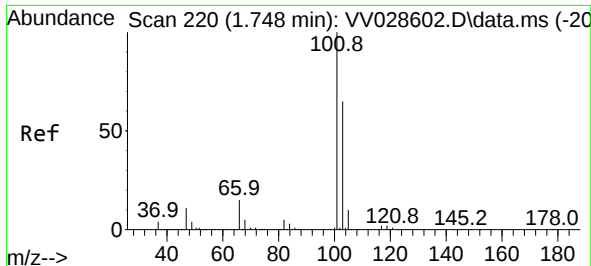
Tgt Ion: 94 Resp: 1133
Ion Ratio Lower Upper
94 100
96 76.0 67.0 124.4



#8
Chloroethane
Concen: 0.096 ug/L
RT: 1.580 min Scan# 168
Delta R.T. 0.000 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

Tgt Ion: 64 Resp: 1078
Ion Ratio Lower Upper
64 100
66 29.1 23.0 42.8

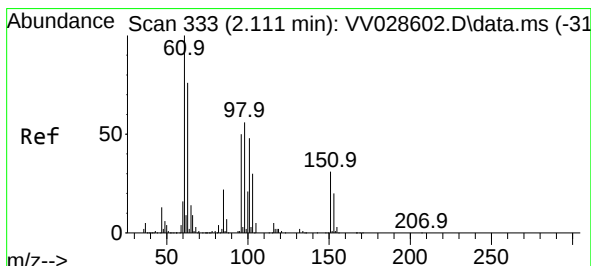
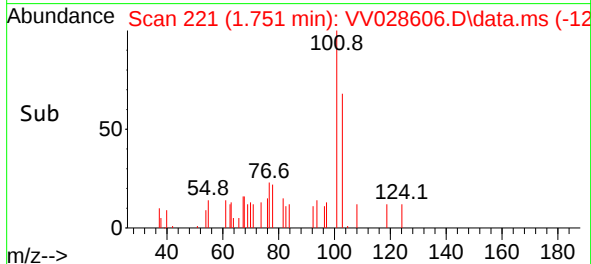
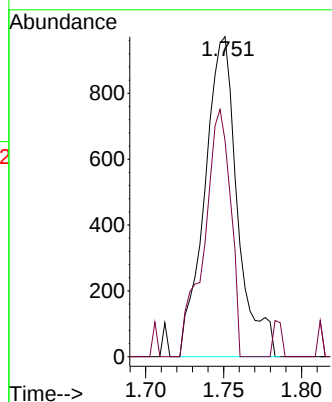
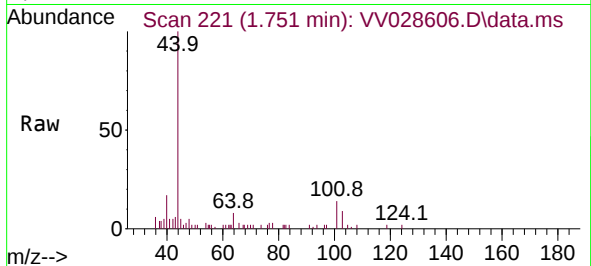




#9
 Trichlorofluoromethane
 Concen: 0.067 ug/L
 RT: 1.751 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VV028606.D
 Acq: 18 Oct 2022 11:33

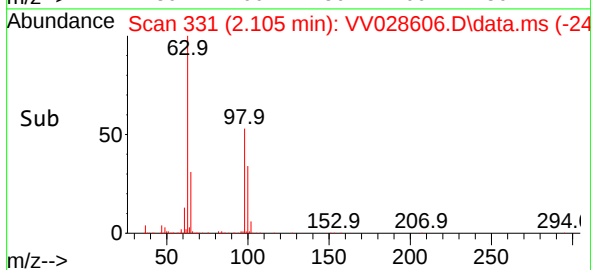
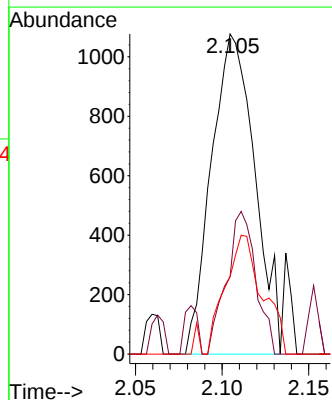
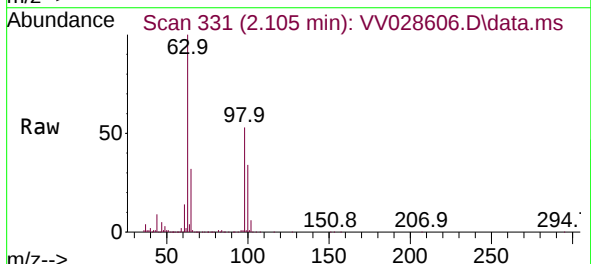
Instrument :
 MSVOA_V
 ClientSampleId :

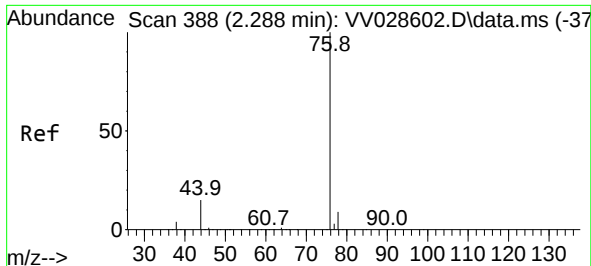
Tgt Ion:101 Resp: 1421
 Ion Ratio Lower Upper
 101 100
 103 62.1 51.6 77.4



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.150 ug/L
 RT: 2.105 min Scan# 331
 Delta R.T. -0.006 min
 Lab File: VV028606.D
 Acq: 18 Oct 2022 11:33

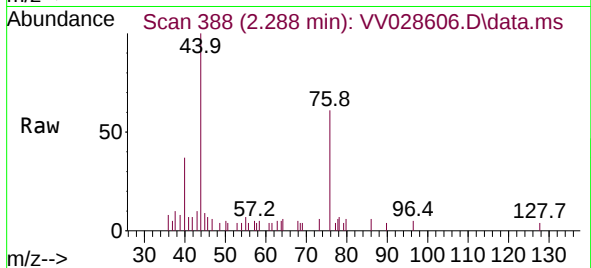
Tgt Ion:101 Resp: 1876
 Ion Ratio Lower Upper
 101 100
 85 30.1 37.3 55.9#
 151 31.7 52.8 79.2#



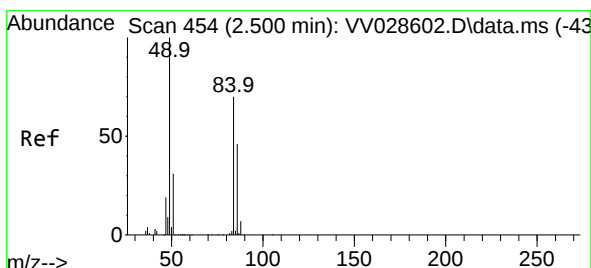
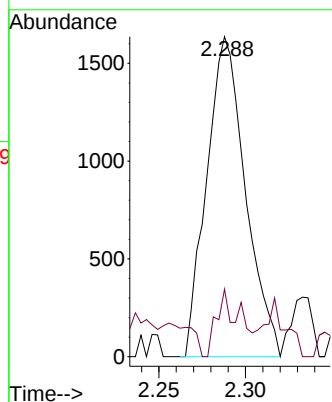
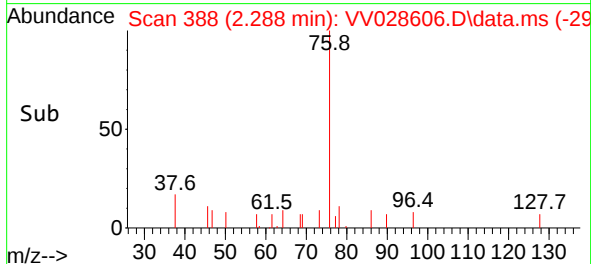


#14
Carbon disulfide
Concen: 0.078 ug/L
RT: 2.288 min Scan# 388
Delta R.T. 0.000 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

Instrument :
MSVOA_V
ClientSampleId :

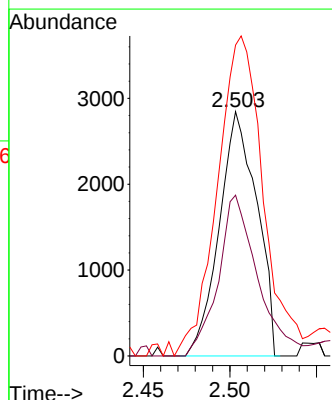
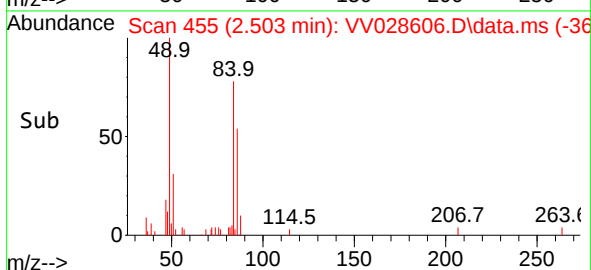
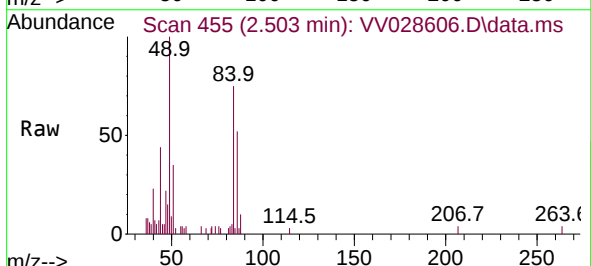


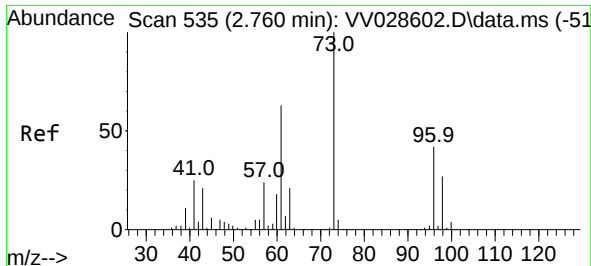
Tgt Ion: 76 Resp: 2543
Ion Ratio Lower Upper
76 100
78 21.1 7.4 11.0#



#16
Methylene chloride
Concen: 0.260 ug/L
RT: 2.503 min Scan# 455
Delta R.T. 0.003 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

Tgt Ion: 84 Resp: 4289
Ion Ratio Lower Upper
84 100
86 65.8 42.8 79.6
49 138.5 106.4 197.6

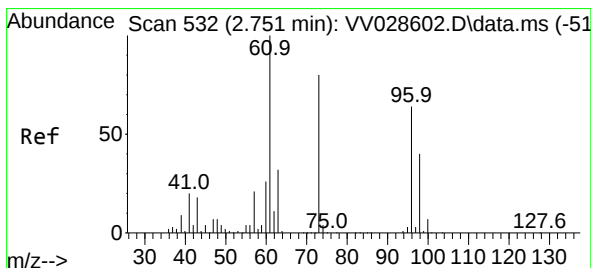
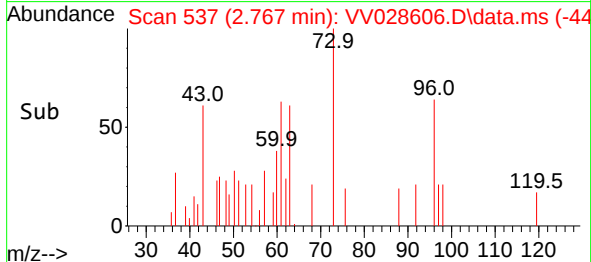
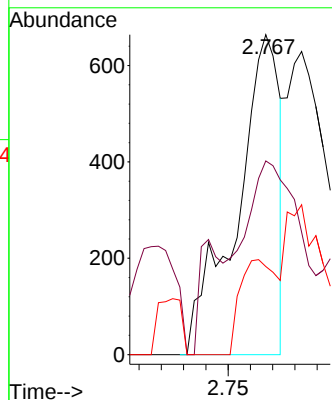
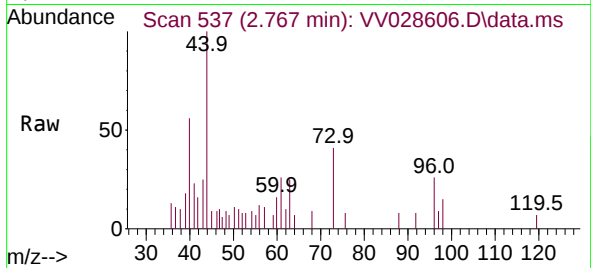




#17
Methyl tert-butyl Ether
Concen: 0.030 ug/L
RT: 2.767 min Scan# 51
Delta R.T. 0.006 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

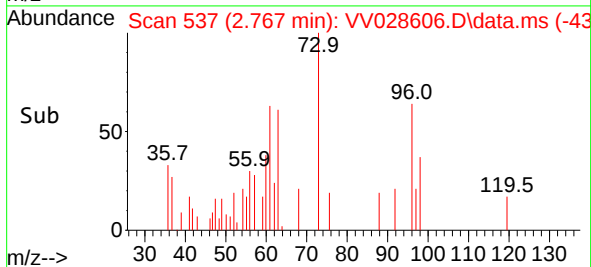
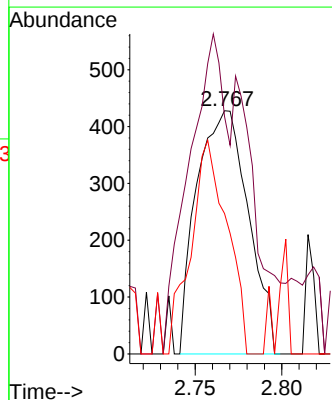
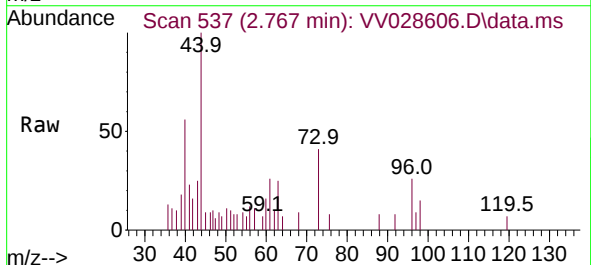
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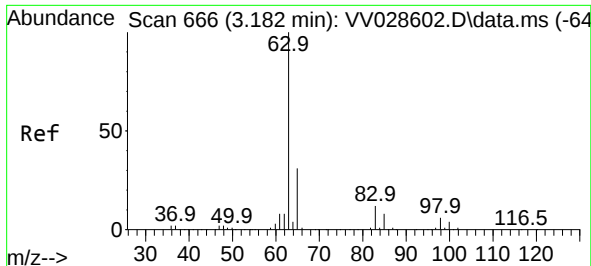
Tgt Ion: 73 Resp: 886
Ion Ratio Lower Upper
73 100
43 45.8 18.2 27.2#
57 22.5 19.5 29.3



#18
trans-1,2-Dichloroethene
Concen: 0.073 ug/L
RT: 2.767 min Scan# 537
Delta R.T. 0.016 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

Tgt Ion: 96 Resp: 887
Ion Ratio Lower Upper
96 100
61 97.7 111.2 206.6#
98 57.7 42.9 79.7





#19

1,1-Dichloroethane

Concen: 0.063 ug/L

RT: 3.191 min Scan# 6

Delta R.T. 0.010 min

Lab File: VV028606.D

Acq: 18 Oct 2022 11:33

Instrument :

MSVOA_V

ClientSampleId :

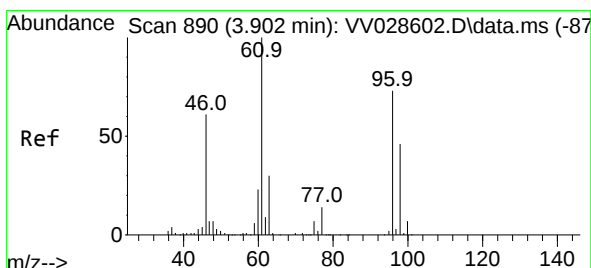
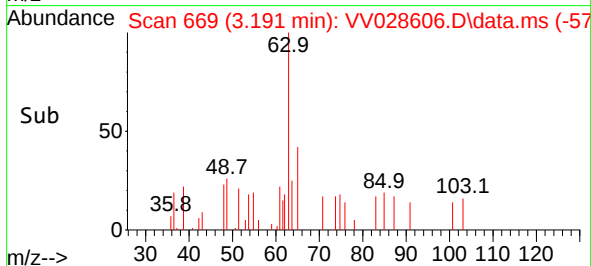
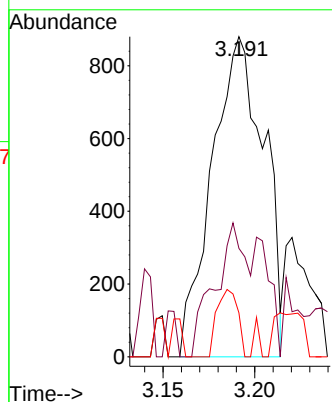
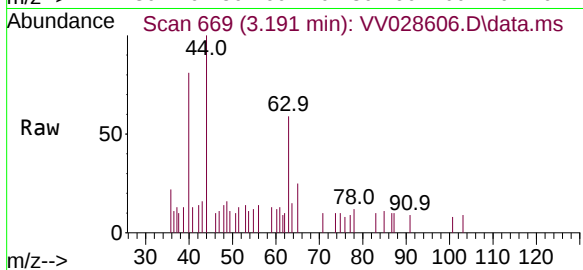
Tgt Ion: 63 Resp: 1735

Ion Ratio Lower Upper

63 100

65 33.9 22.3 41.5

83 13.8 8.5 15.7



#22

cis-1,2-Dichloroethene

Concen: 0.036 ug/L

RT: 3.918 min Scan# 895

Delta R.T. 0.016 min

Lab File: VV028606.D

Acq: 18 Oct 2022 11:33

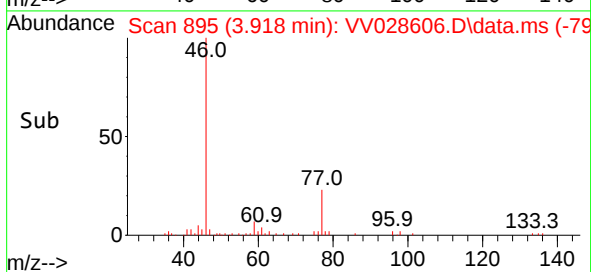
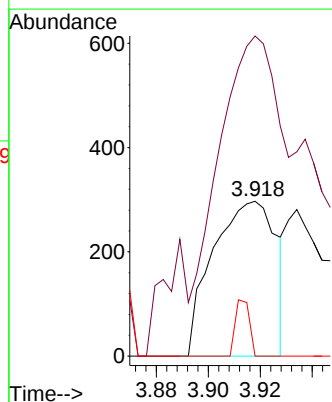
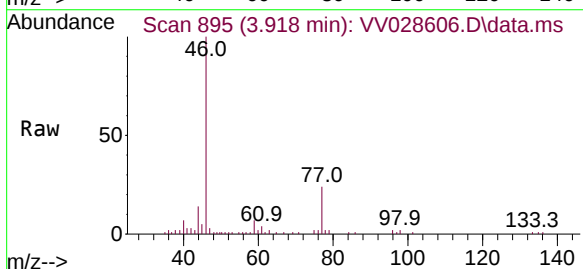
Tgt Ion: 96 Resp: 501

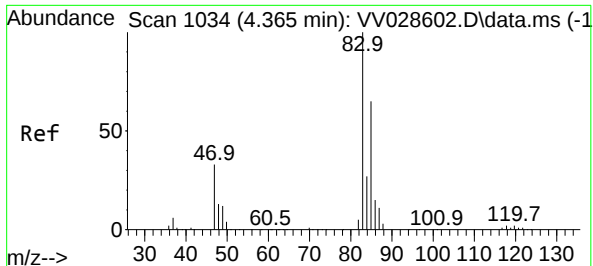
Ion Ratio Lower Upper

96 100

61 206.7 105.1 195.3#

68 0.0 0.5 0.9#

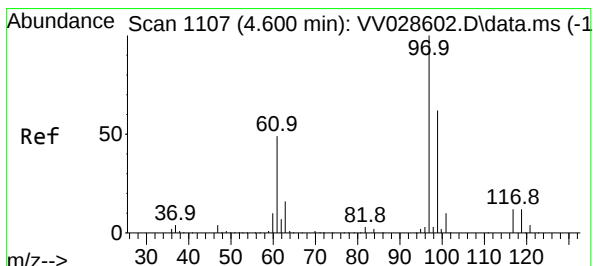
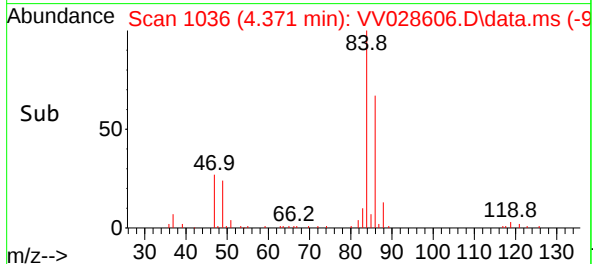
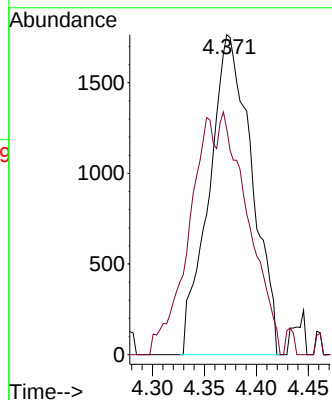
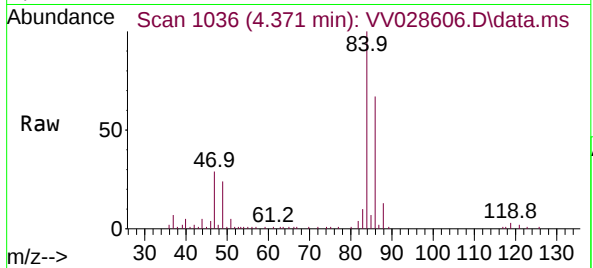




#25
Chloroform
Concen: 0.194 ug/L
RT: 4.371 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

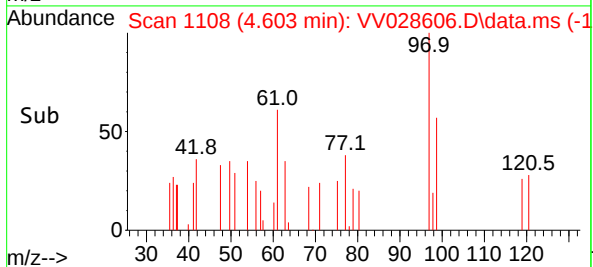
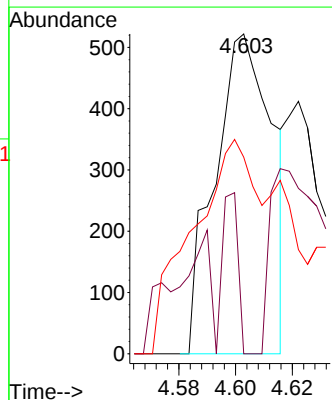
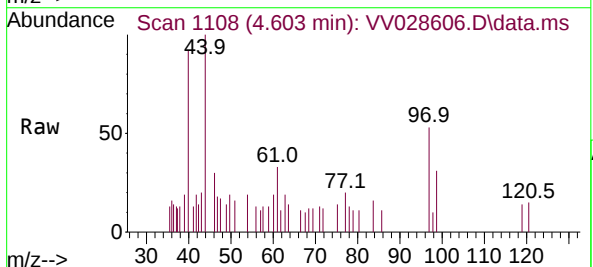
Instrument :
MSVOA_V
ClientSampleId :

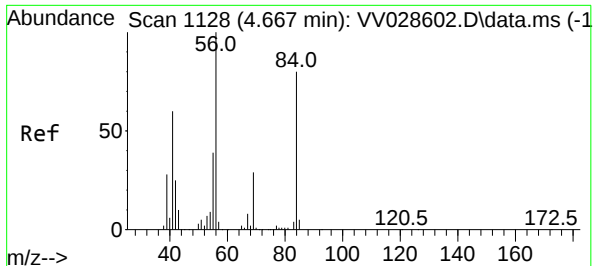
Tgt Ion: 83 Resp: 5036
Ion Ratio Lower Upper
83 100
85 70.5 45.1 83.9



#29
1,1,1-Trichloroethane
Concen: 0.030 ug/L
RT: 4.603 min Scan# 1108
Delta R.T. 0.003 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

Tgt Ion: 97 Resp: 732
Ion Ratio Lower Upper
97 100
99 13.7 52.6 78.8#
61 75.5 42.1 63.1#





#30

Cyclohexane

Concen: 0.050 ug/L

RT: 4.677 min Scan# 1128

Delta R.T. 0.010 min

Lab File: VV028606.D

Acq: 18 Oct 2022 11:33

Instrument :

MSVOA_V

ClientSampleId :

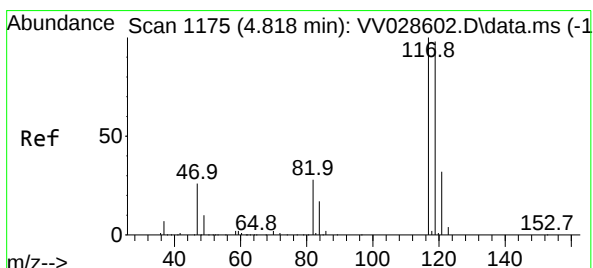
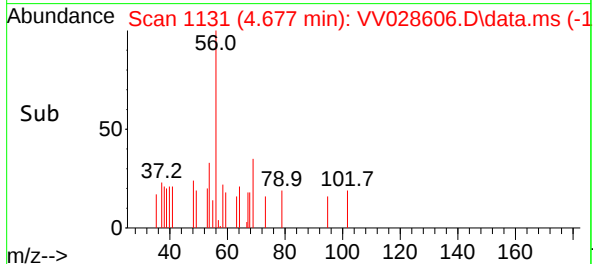
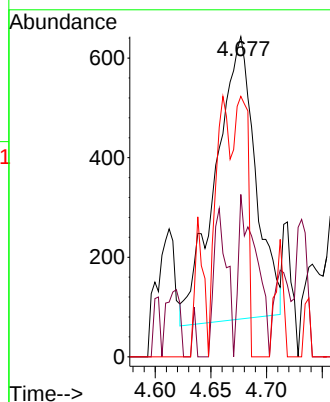
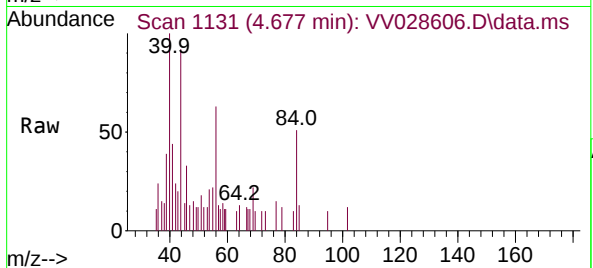
Tgt Ion: 56 Resp: 1414

Ion Ratio Lower Upper

56 100

69 25.5 22.4 33.6

84 0.0 60.1 90.1#



#31

Carbon tetrachloride

Concen: 0.051 ug/L

RT: 4.822 min Scan# 1176

Delta R.T. 0.003 min

Lab File: VV028606.D

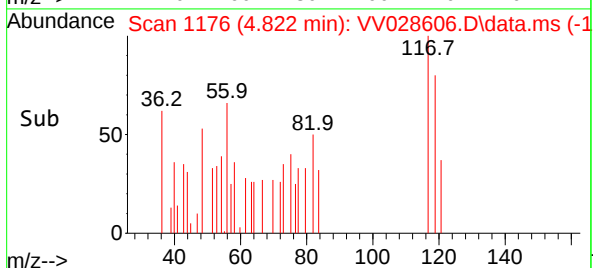
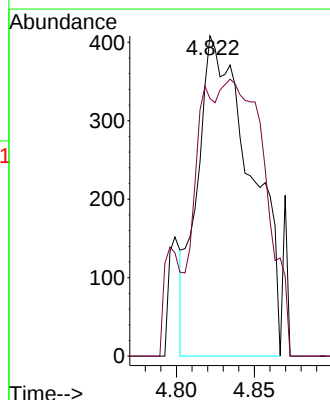
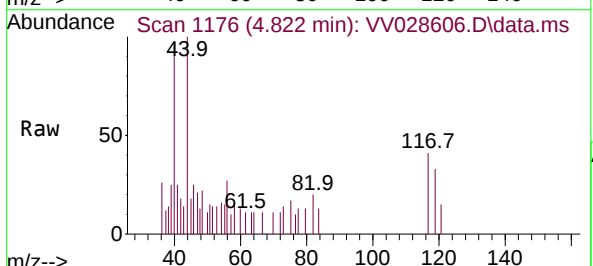
Acq: 18 Oct 2022 11:33

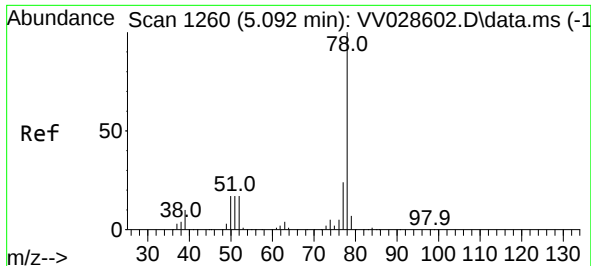
Tgt Ion: 117 Resp: 978

Ion Ratio Lower Upper

117 100

119 20.3 75.5 113.3#

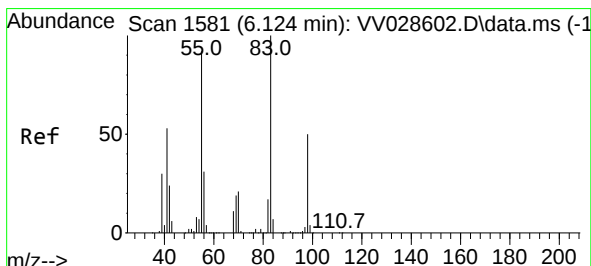
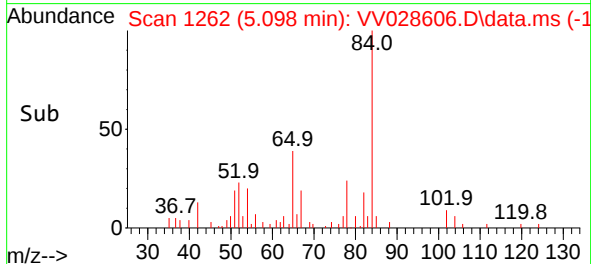
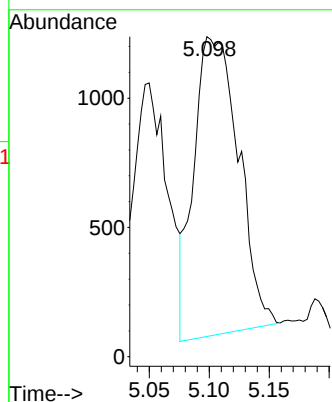
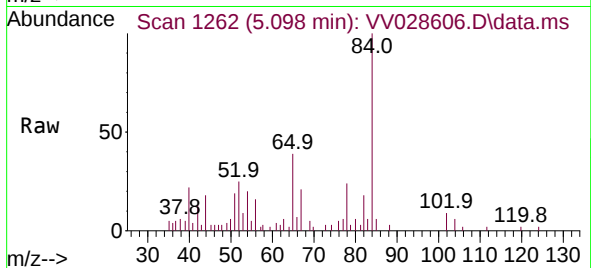




#33
Benzene
Concen: 0.048 ug/L
RT: 5.098 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

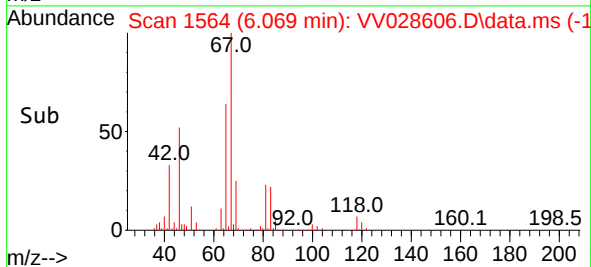
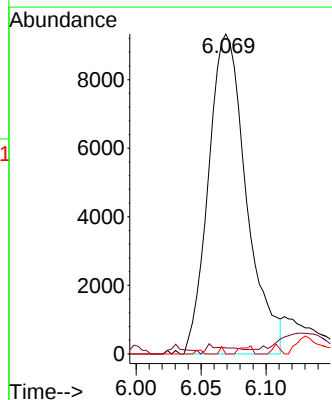
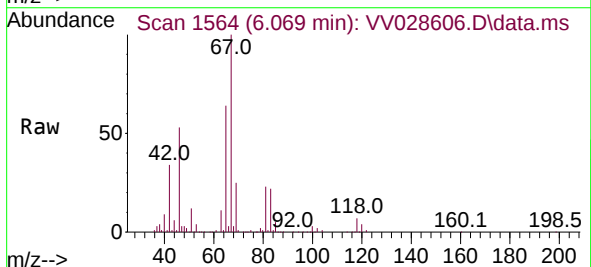
Instrument :
MSVOA_V
ClientSampleId :

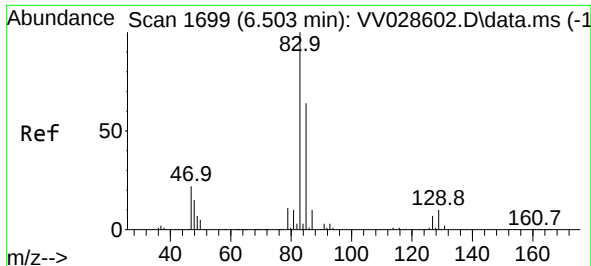
Tgt Ion: 78 Resp: 2996



#35
Methylcyclohexane
Concen: 0.759 ug/L
RT: 6.069 min Scan# 1564
Delta R.T. -0.055 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

Tgt Ion: 83 Resp: 18937
Ion Ratio Lower Upper
83 100
55 0.0 65.0 97.6#
98 0.2 36.4 54.6#

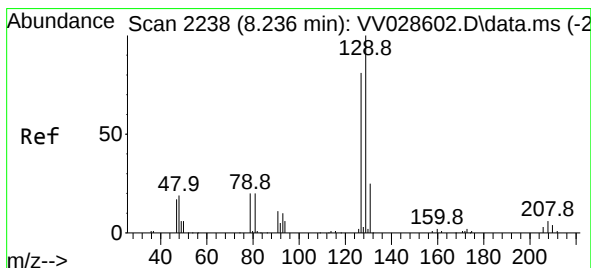
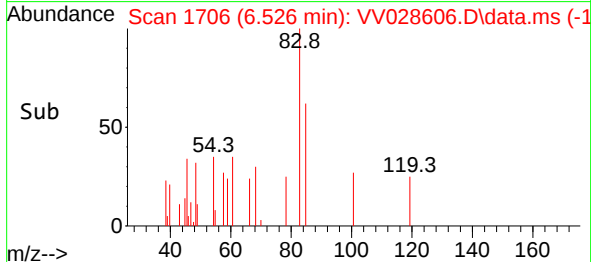
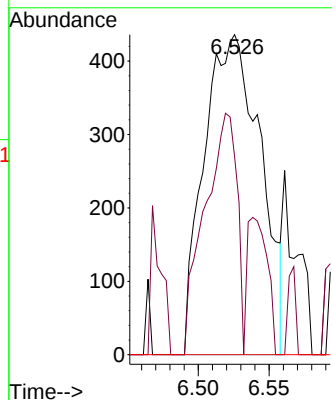
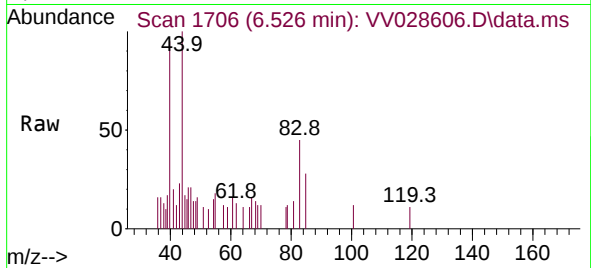




#38
Bromodichloromethane
Concen: 0.066 ug/L
RT: 6.526 min Scan# 11
Delta R.T. 0.023 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

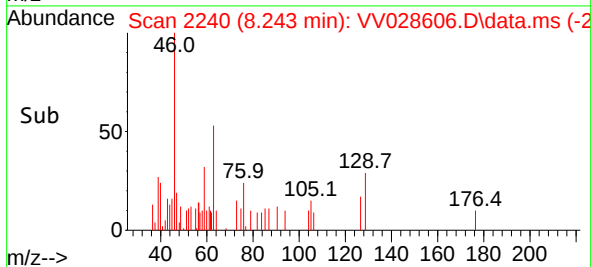
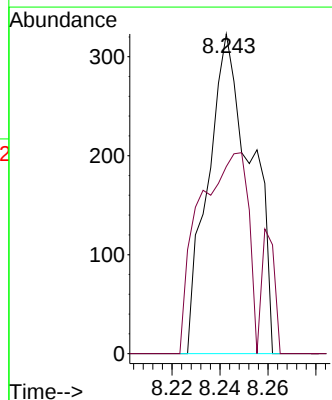
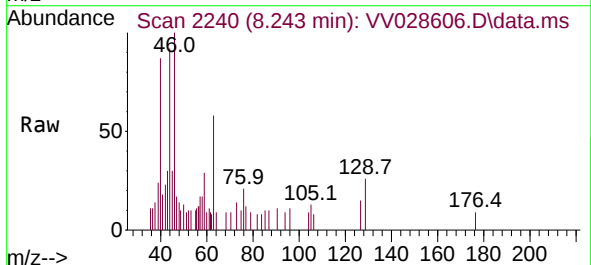
Instrument :
MSVOA_V
ClientSampleId :

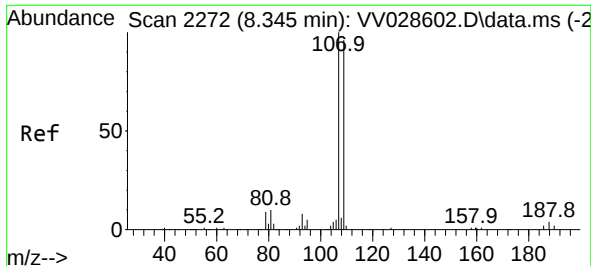
Tgt Ion: 83 Resp: 1206
Ion Ratio Lower Upper
83 100
85 61.9 44.2 82.0
127 0.0 6.1 9.1#



#49
Dibromochloromethane
Concen: 0.043 ug/L
RT: 8.243 min Scan# 2240
Delta R.T. 0.006 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

Tgt Ion: 129 Resp: 404
Ion Ratio Lower Upper
129 100
127 58.5 53.8 100.0





#50

1,2-Dibromoethane

Concen: 0.045 ug/L

RT: 8.355 min Scan# 21

Delta R.T. 0.010 min

Lab File: VV028606.D

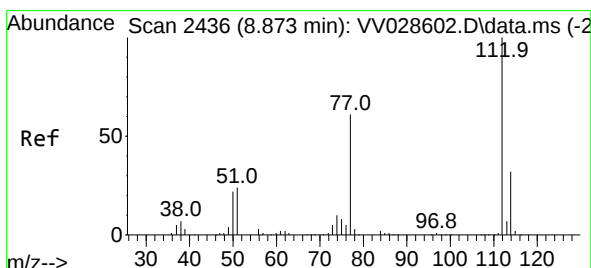
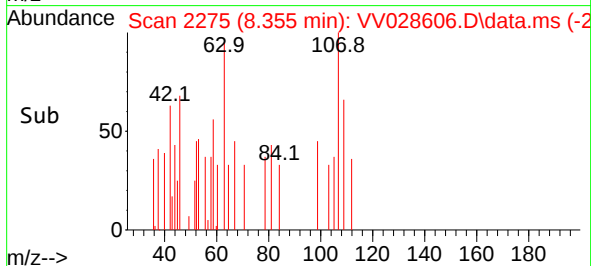
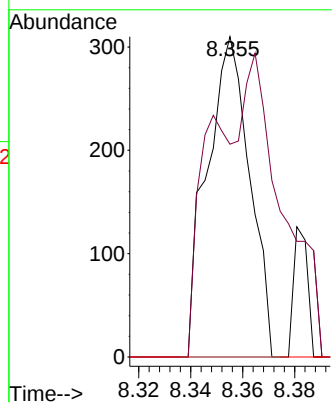
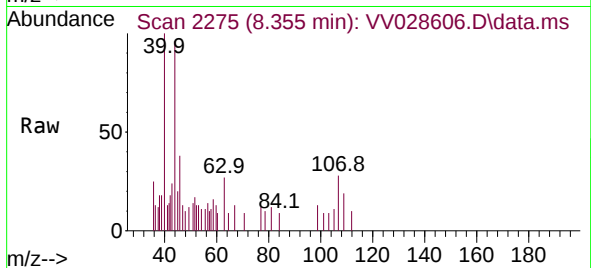
Acq: 18 Oct 2022 11:33

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:107	Resp:	352
Ion Ratio	Lower	Upper
107	100	
109	66.5	64.1 119.1
188	0.0	3.3 4.9#



#51

Chlorobenzene

Concen: 0.057 ug/L

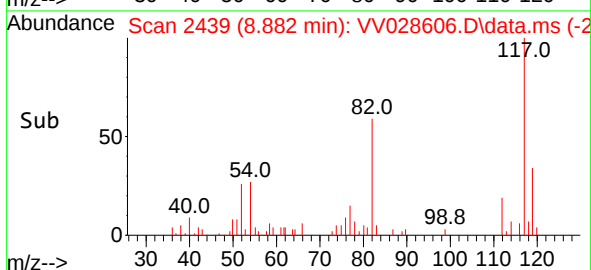
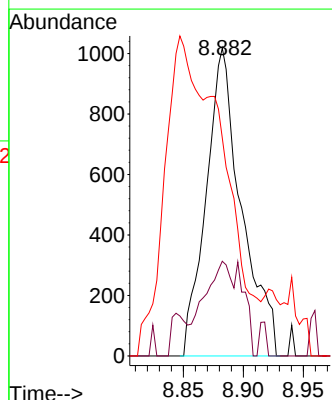
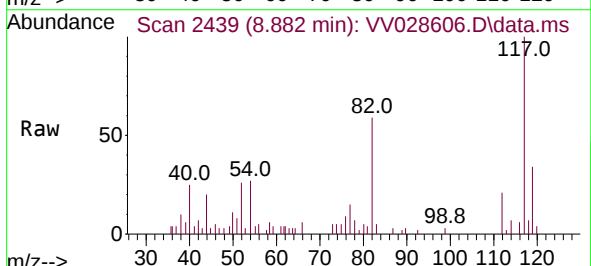
RT: 8.882 min Scan# 2439

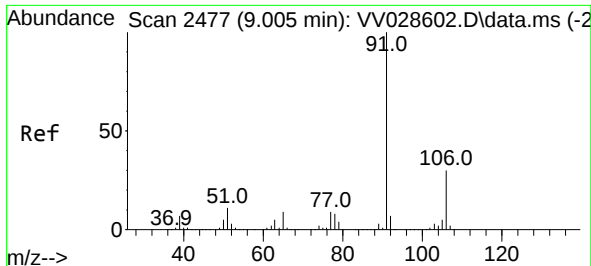
Delta R.T. 0.010 min

Lab File: VV028606.D

Acq: 18 Oct 2022 11:33

Tgt Ion:112	Resp:	2082
Ion Ratio	Lower	Upper
112	100	
114	30.7	22.4 41.6
77	70.8	50.2 75.2





#52

Ethylbenzene

Concen: 0.051 ug/L

RT: 9.017 min Scan# 2477

Delta R.T. 0.013 min

Lab File: VV028606.D

Acq: 18 Oct 2022 11:33

Instrument :

MSVOA_V

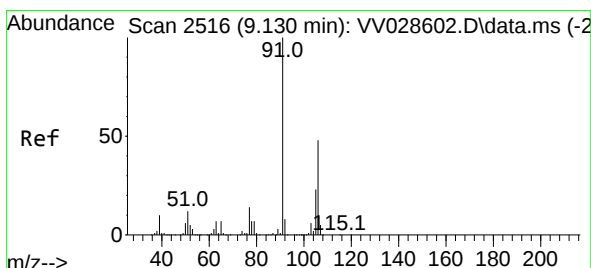
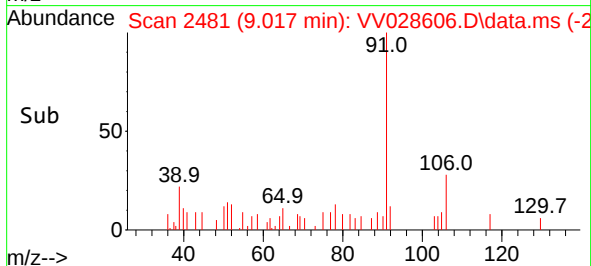
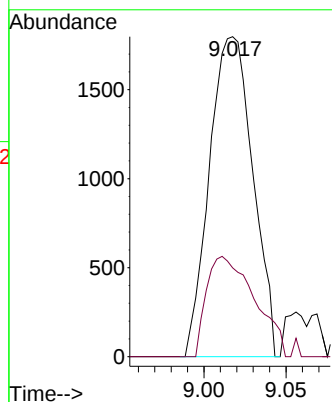
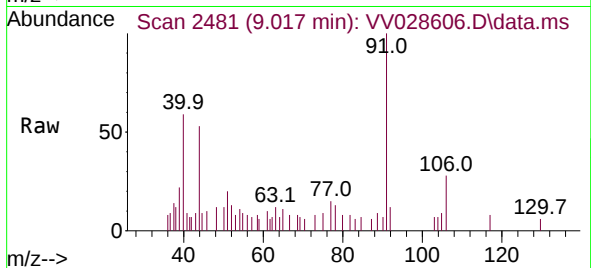
ClientSampleId :

Tgt Ion: 91 Resp: 3307

Ion Ratio Lower Upper

91 100

106 27.8 20.3 37.7



#53

m,p-Xylene

Concen: 0.098 ug/L

RT: 9.136 min Scan# 2518

Delta R.T. 0.006 min

Lab File: VV028606.D

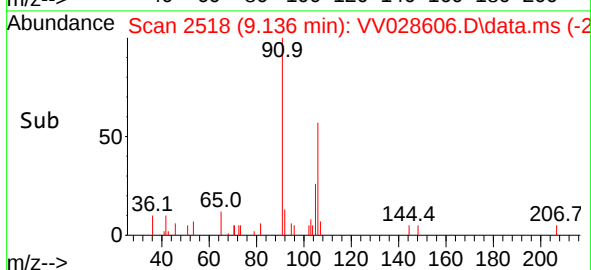
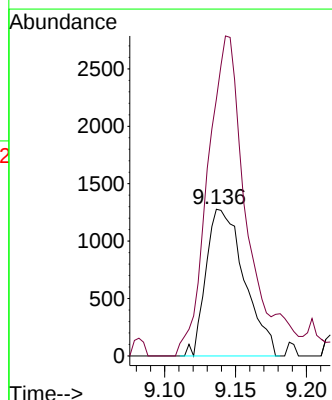
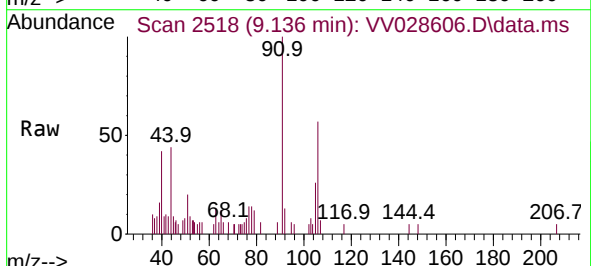
Acq: 18 Oct 2022 11:33

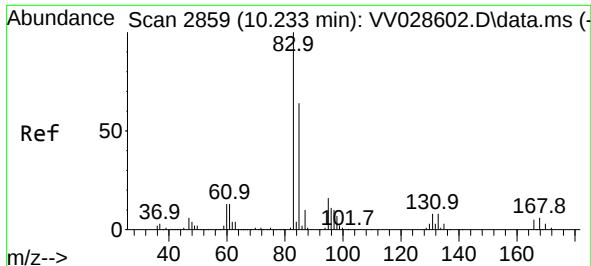
Tgt Ion: 106 Resp: 2395

Ion Ratio Lower Upper

106 100

91 175.0 146.9 272.9





#57

1,1,2,2-Tetrachloroethane

Concen: 0.096 ug/L

RT: 10.233 min Scan# 2859

Delta R.T. 0.000 min

Lab File: VV028606.D

Acq: 18 Oct 2022 11:33

Instrument :

MSVOA_V

ClientSampleId :

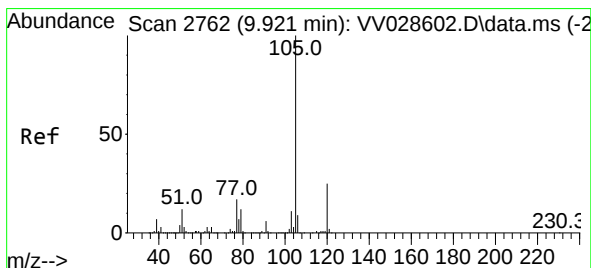
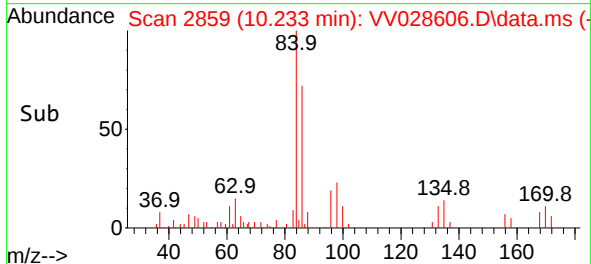
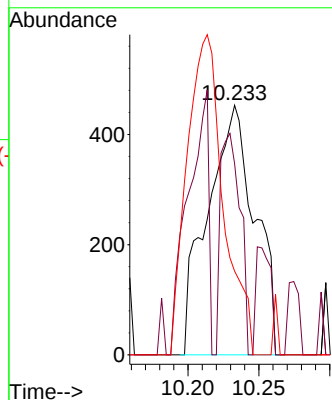
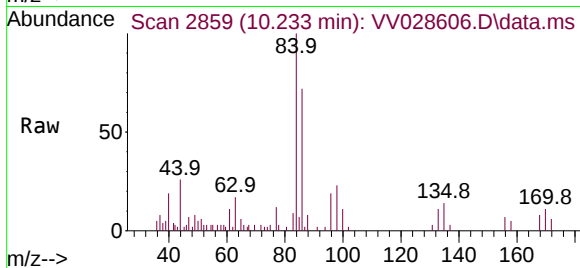
Tgt Ion: 83 Resp: 1051

Ion Ratio Lower Upper

83 100

85 76.6 44.3 82.3

131 33.6 6.4 9.6#



#60

Isopropylbenzene

Concen: 0.055 ug/L

RT: 9.931 min Scan# 2765

Delta R.T. 0.010 min

Lab File: VV028606.D

Acq: 18 Oct 2022 11:33

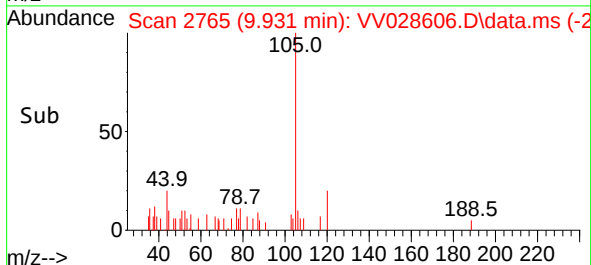
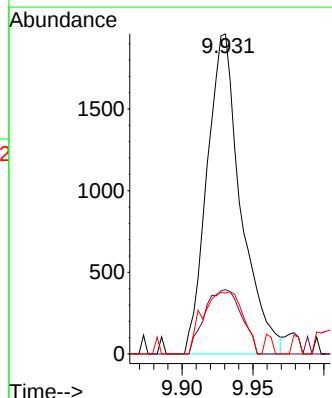
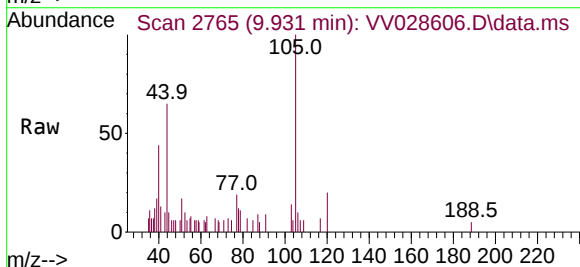
Tgt Ion: 105 Resp: 3254

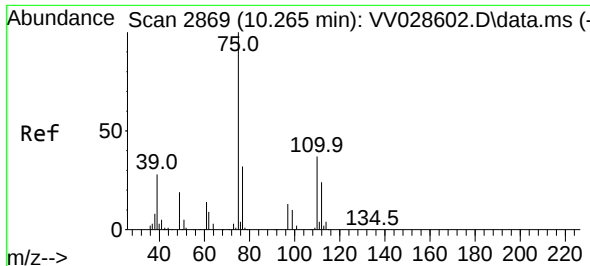
Ion Ratio Lower Upper

105 100

120 22.0 20.7 31.1

77 23.0 13.1 19.7#

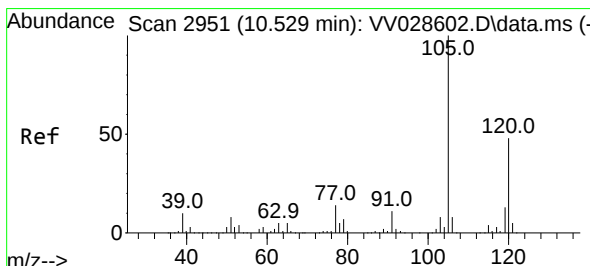
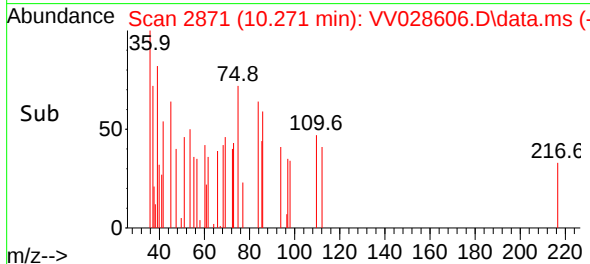
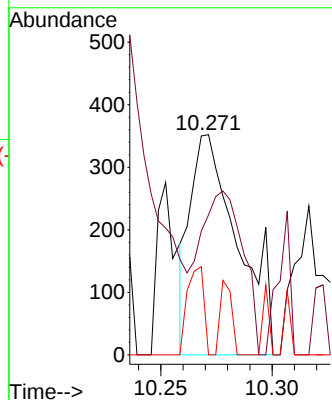
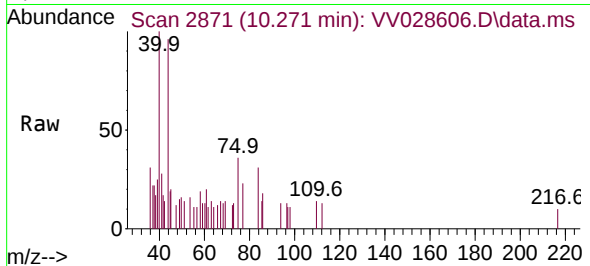




#61
1,2,3-Trichloropropane
Concen: 0.073 ug/L
RT: 10.271 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

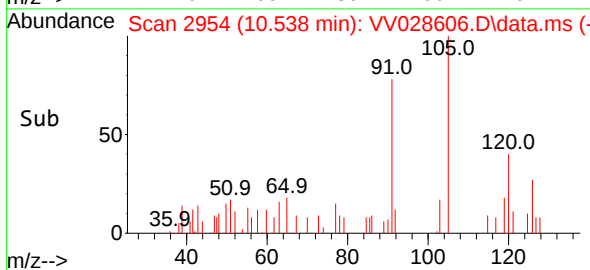
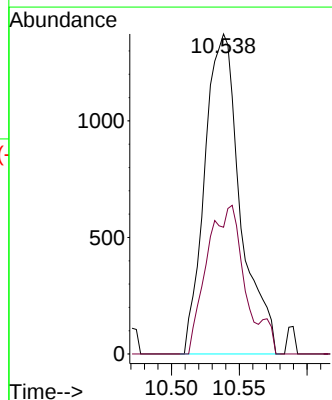
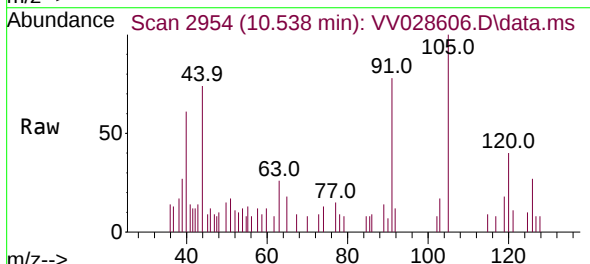
Instrument :
MSVOA_V
ClientSampleId :

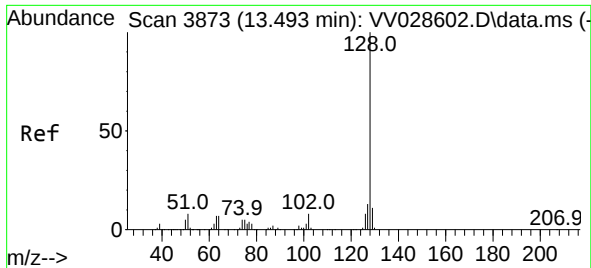
Tgt Ion: 75 Resp: 527
Ion Ratio Lower Upper
75 100
77 0.0 24.6 37.0#
110 13.9 28.3 42.5#



#62
1,3,5-Trimethylbenzene
Concen: 0.142 ug/L
RT: 10.538 min Scan# 2954
Delta R.T. 0.010 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

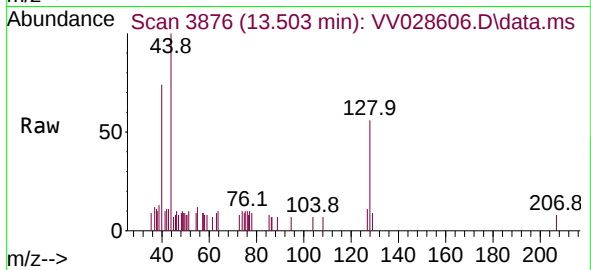
Tgt Ion: 105 Resp: 2518
Ion Ratio Lower Upper
105 100
120 46.7 38.0 57.0





#71
Naphthalene
Concen: 0.098 ug/L
RT: 13.503 min Scan# 31
Delta R.T. 0.010 min
Lab File: VV028606.D
Acq: 18 Oct 2022 11:33

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 2036
Ion Ratio Lower Upper
128 100
129 5.9 9.0 13.6#
127 8.9 10.1 15.1#

