

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW031523\
 Data File : VW030213.D
 Acq On : 15 Mar 2023 15:48
 Operator : SY/MD
 Sample : 01884-13
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 CB925

Quant Time: Mar 16 01:52:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR022323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Mar 16 01:47:11 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	147005	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	148219	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	92340	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	43776	4.602	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.000%
7) Chloroethane-d5	1.539	69	40331	4.517	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.400%
11) 1,1-Dichloroethene-d2	2.066	63	66176	3.384	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.600%
20) 2-Butanone-d5	3.831	46	66638	37.998	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	76.000%
24) Chloroform-d	4.262	84	88724	4.566	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.400%
26) 1,2-Dichloroethane-d4	4.953	65	38425	4.844	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.800%
32) Benzene-d6	4.973	84	163776	4.106	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.200%
36) 1,2-Dichloropropane-d6	5.998	67	52730	4.395	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.800%
41) Toluene-d8	7.252	98	147232	3.895	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.800%
43) trans-1,3-Dichloroprop...	7.564	79	17987	4.382	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.600%
46) 2-Hexanone-d5	8.037	63	66138	38.944	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	77.880%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	40772	4.777	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.600%
66) 1,2-Dichlorobenzene-d4	11.570	152	69988	4.480	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	2524	0.134	ug/L	95
5) Vinyl chloride	1.388	62	985	0.079	ug/L	93
6) Bromomethane	1.497	94	358	0.159	ug/L	76
13) Acetone	2.156	43	3021	2.331	ug/L	65
14) Carbon disulfide	2.249	76	3256	0.123	ug/L #	94
22) cis-1,2-Dichloroethene	3.828	96	1503	0.145	ug/L	71
30) Cyclohexane	4.593	56	2936	0.195	ug/L	88
33) Benzene	5.024	78	7027	0.174	ug/L	100
35) Methylcyclohexane	6.059	83	3560	0.207	ug/L	94
37) 1,2-Dichloropropane	5.995	63	5159	0.501	ug/L #	86
42) Toluene	7.326	91	12441	0.284	ug/L	98
45) 1,1,2-Trichloroethane	7.725	97	1085	0.147	ug/L #	16
51) Chlorobenzene	8.821	112	456030	15.423	ug/L	99
52) Ethylbenzene	8.960	91	2388	0.050	ug/L	100
53) m,p-Xylene	9.082	106	2725	0.149	ug/L	93
54) o-Xylene	9.487	106	2559	0.146	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.185	83	1606	0.195	ug/L #	53
60) Isopropylbenzene	9.876	105	53149	1.000	ug/L	99
61) 1,2,3-Trichloropropane	11.214	75	25259	4.087	ug/L #	46

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QLast Update : Thu Mar 16 01:47:11 2023
Response via : Initial Calibration

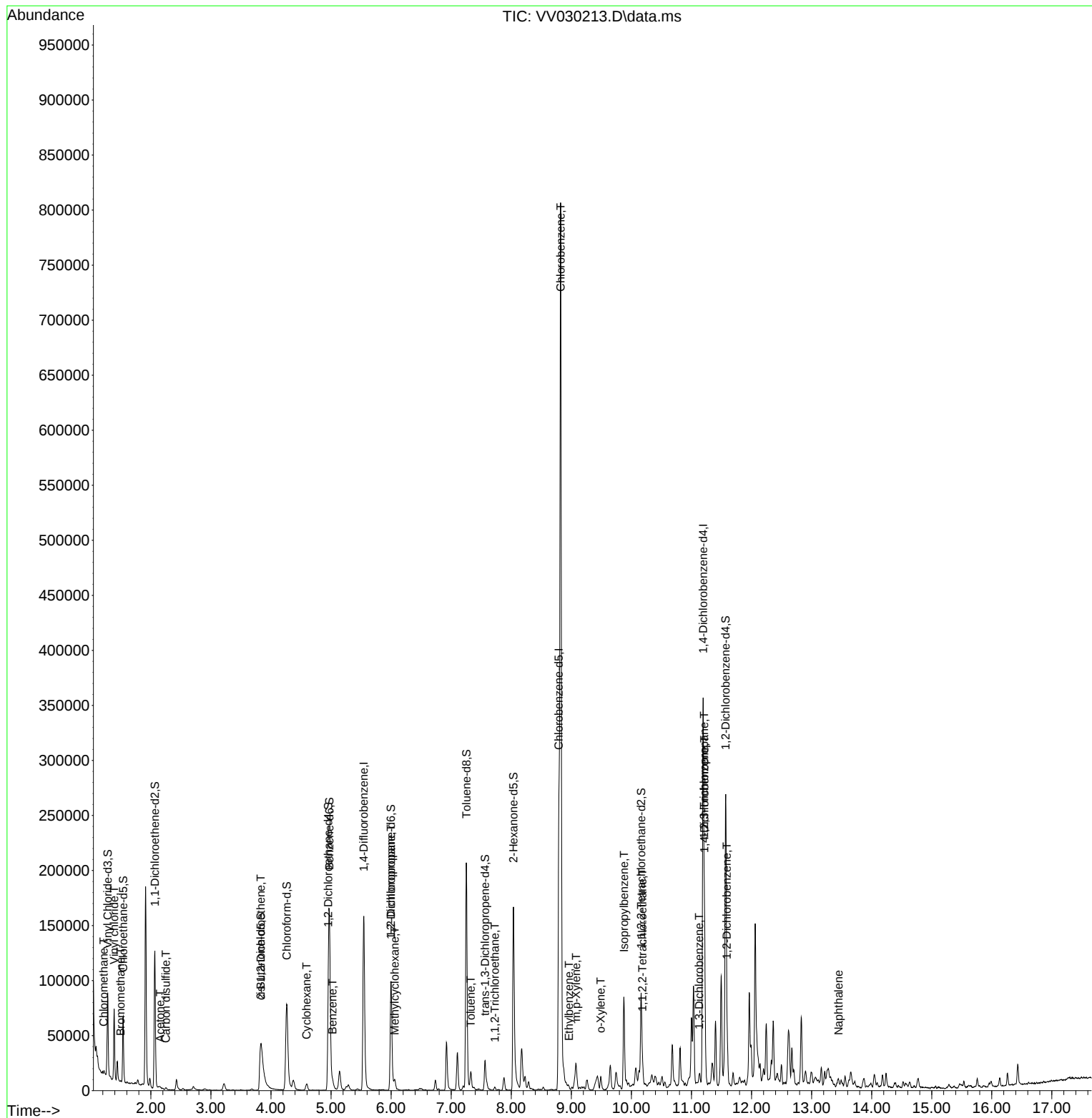
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.130	146	2021	0.073	ug/L #	89
65) 1,4-Dichlorobenzene	11.217	146	58881	2.109	ug/L	98
67) 1,2-Dichlorobenzene	11.590	146	5741	0.235	ug/L	97
71) Naphthalene	13.451	128	3585	0.149	ug/L #	79

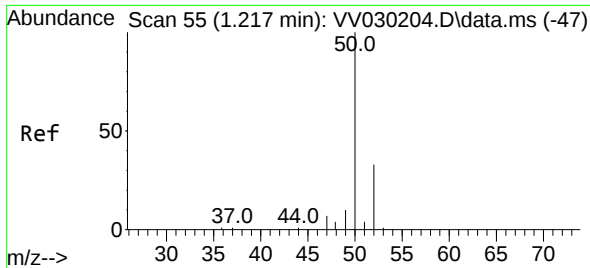
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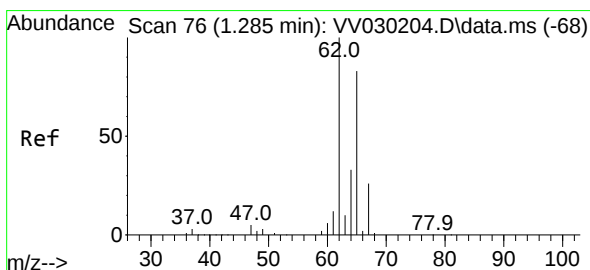
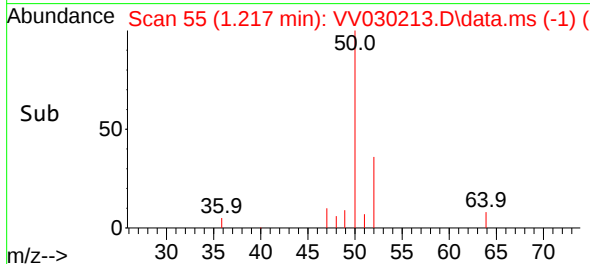
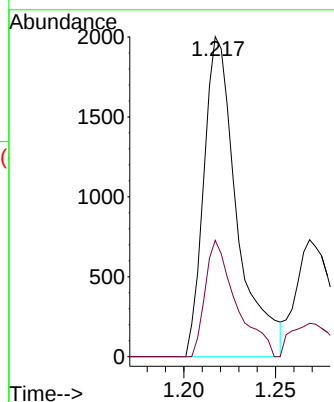
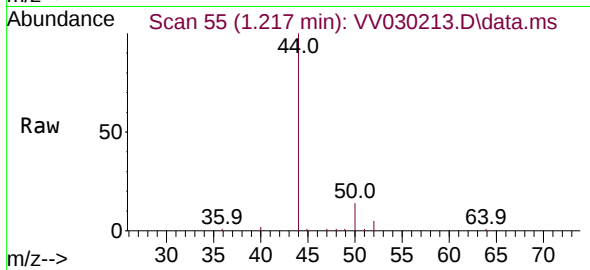




#3
Chloromethane
Concen: 0.134 ug/L
RT: 1.217 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

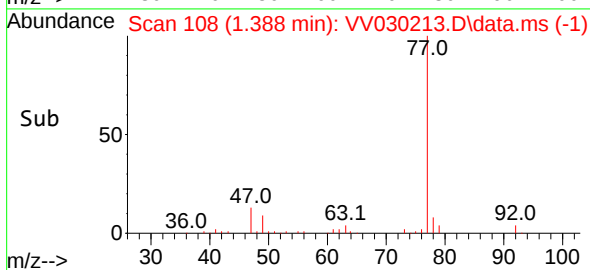
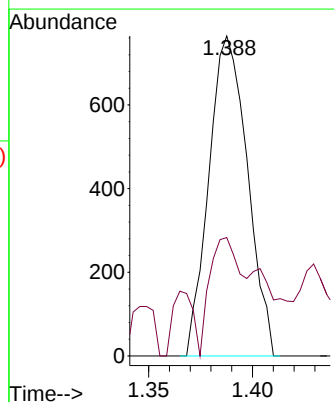
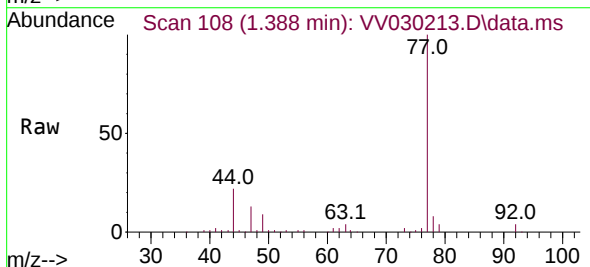
Instrument :
MSVOA_V
ClientSampleId :
CB925

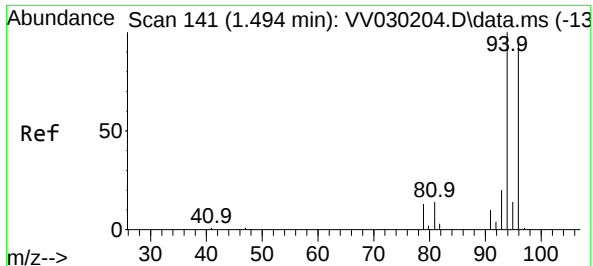
Tgt Ion: 50 Resp: 2524
Ion Ratio Lower Upper
50 100
52 36.4 23.6 43.8



#5
Vinyl chloride
Concen: 0.079 ug/L
RT: 1.388 min Scan# 108
Delta R.T. 0.103 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

Tgt Ion: 62 Resp: 985
Ion Ratio Lower Upper
62 100
64 37.0 23.1 42.9

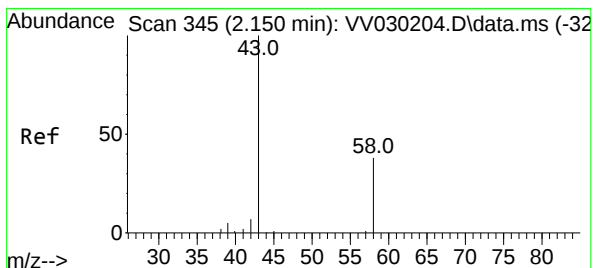
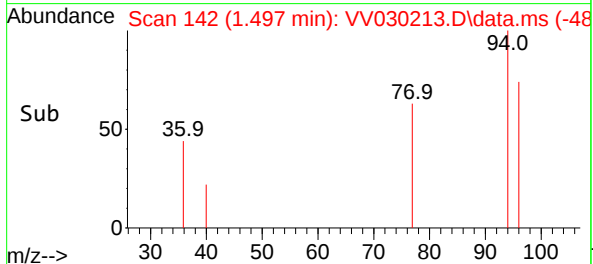
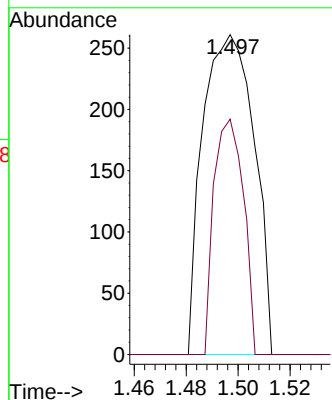
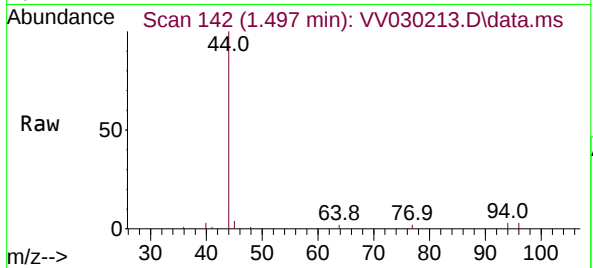




#6
Bromomethane
Concen: 0.159 ug/L
RT: 1.497 min Scan# 141
Delta R.T. 0.003 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

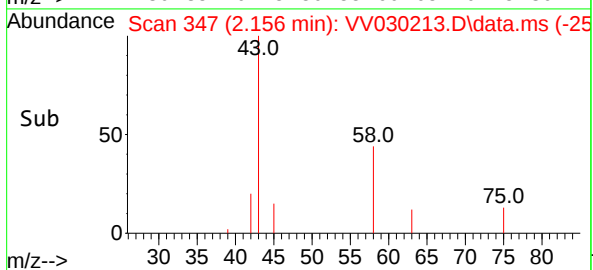
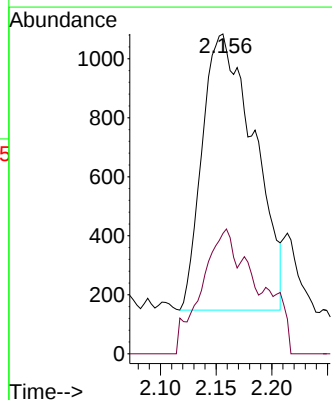
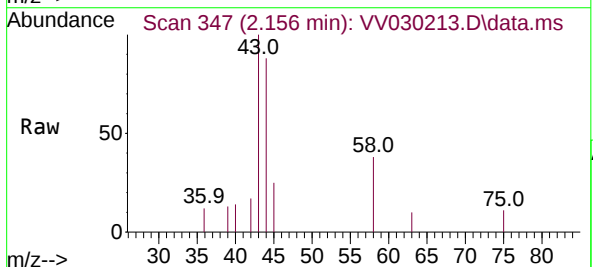
Instrument :
MSVOA_V
ClientSampleId :
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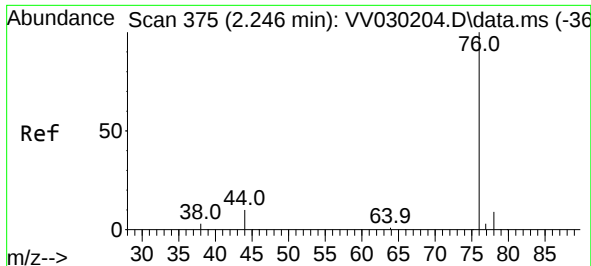
Tgt Ion: 94 Resp: 358
Ion Ratio Lower Upper
94 100
96 73.6 68.4 127.0



#13
Acetone
Concen: 2.331 ug/L
RT: 2.156 min Scan# 347
Delta R.T. 0.006 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

Tgt Ion: 43 Resp: 3021
Ion Ratio Lower Upper
43 100
58 29.1 0.0 29.4





#14

Carbon disulfide

Concen: 0.123 ug/L

RT: 2.249 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV030213.D

Acq: 15 Mar 2023 15:48

Instrument :

MSVOA_V

ClientSampleId :

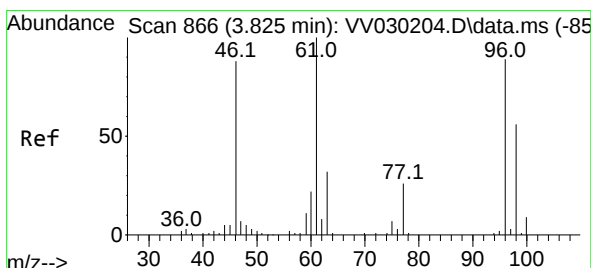
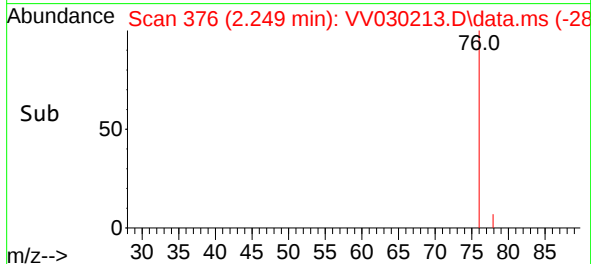
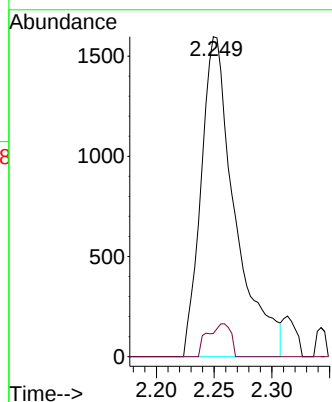
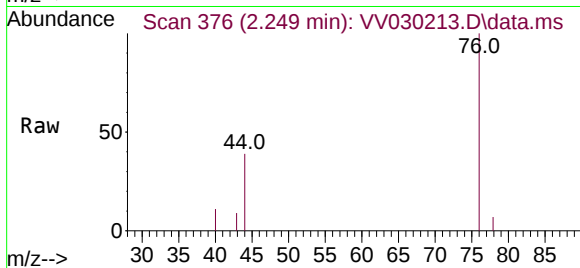
CB925

Tgt Ion: 76 Resp: 3256

Ion Ratio Lower Upper

76 100

78 7.3 7.7 11.5#



#22

cis-1,2-Dichloroethene

Concen: 0.145 ug/L

RT: 3.828 min Scan# 867

Delta R.T. 0.003 min

Lab File: VV030213.D

Acq: 15 Mar 2023 15:48

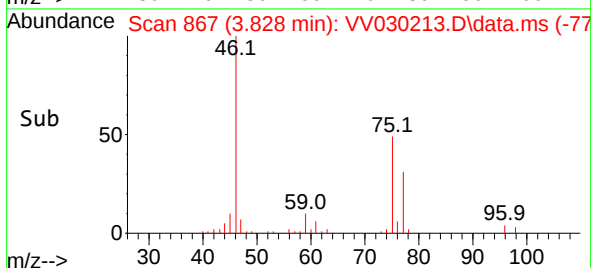
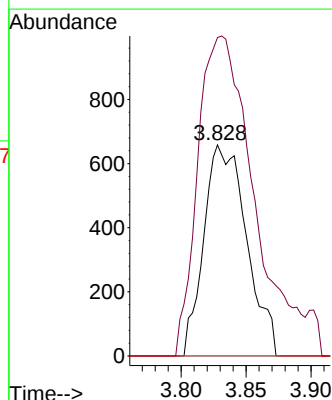
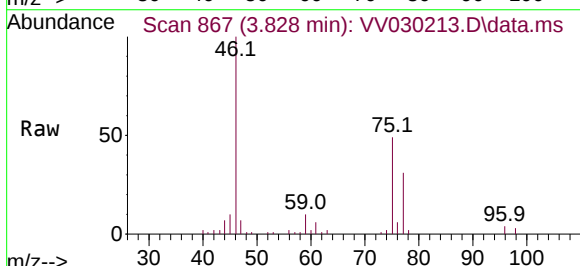
Tgt Ion: 96 Resp: 1503

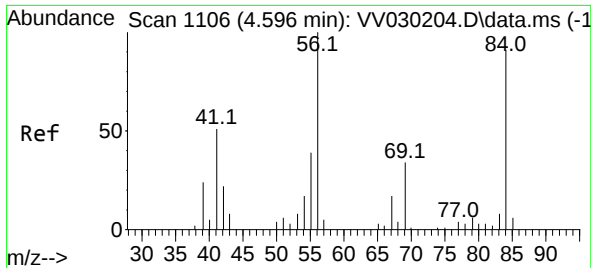
Ion Ratio Lower Upper

96 100

61 150.9 83.4 154.8

68 0.0 0.0 0.0

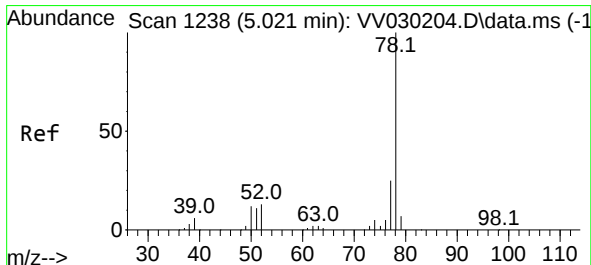
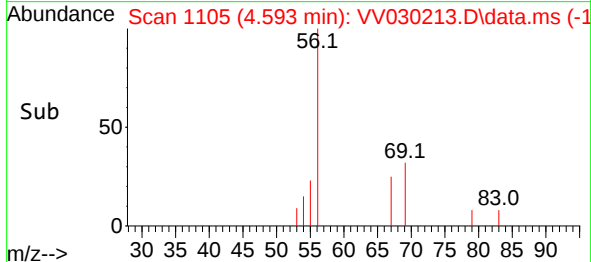
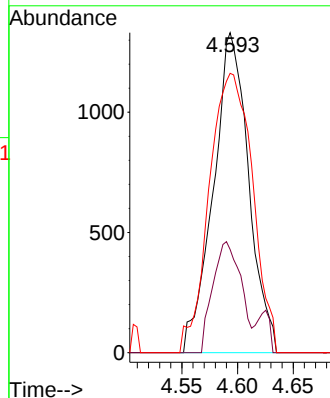
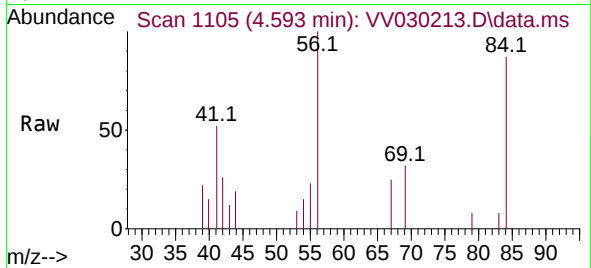




#30
Cyclohexane
Concen: 0.195 ug/L
RT: 4.593 min Scan# 1105
Delta R.T. -0.003 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

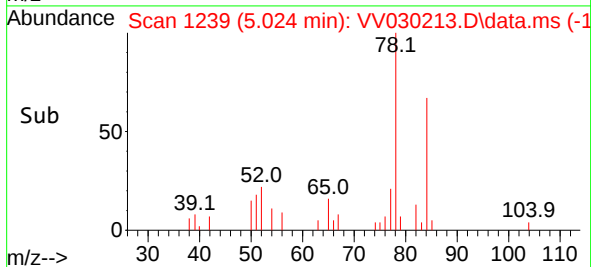
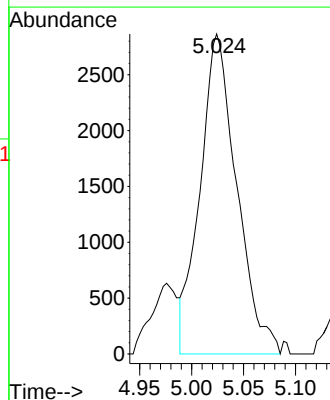
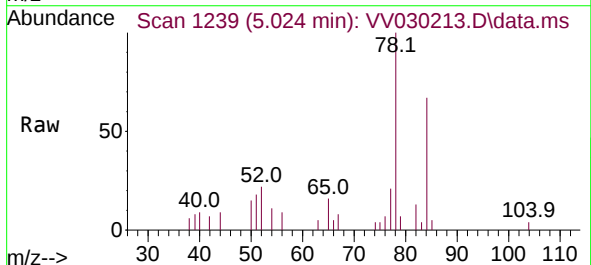
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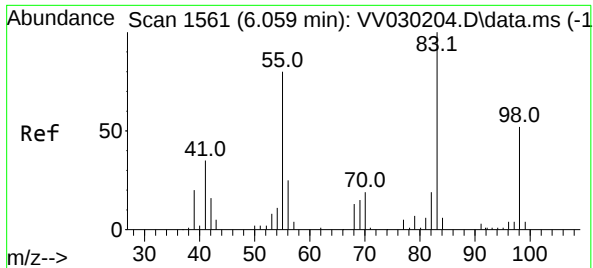
Tgt Ion: 56 Resp: 2936
Ion Ratio Lower Upper
56 100
69 27.8 25.1 37.7
84 106.7 74.6 111.8



#33
Benzene
Concen: 0.174 ug/L
RT: 5.024 min Scan# 1239
Delta R.T. 0.003 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

Tgt Ion: 78 Resp: 7027

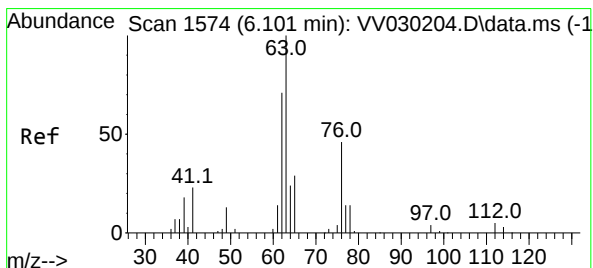
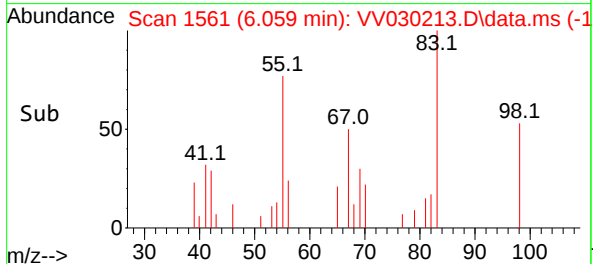
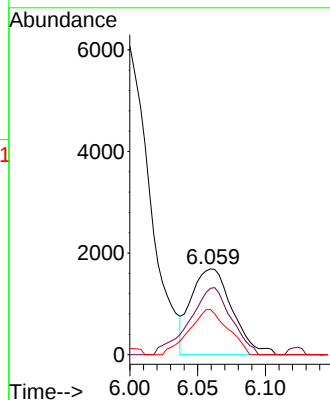
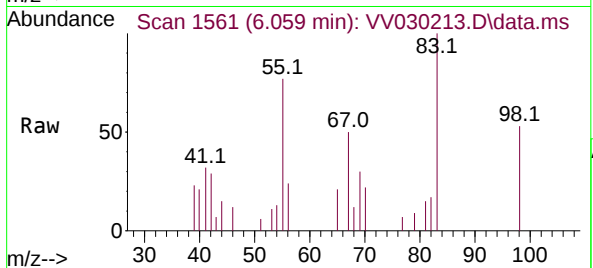




#35
Methylcyclohexane
Concen: 0.207 ug/L
RT: 6.059 min Scan# 1561
Delta R.T. -0.000 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

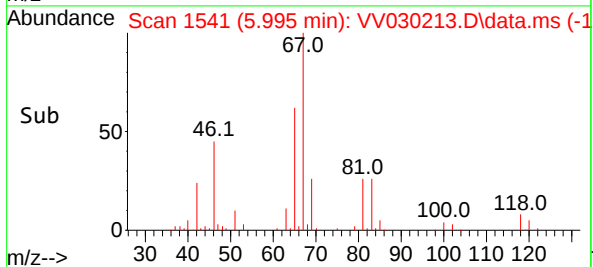
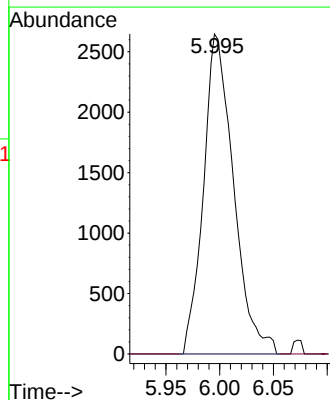
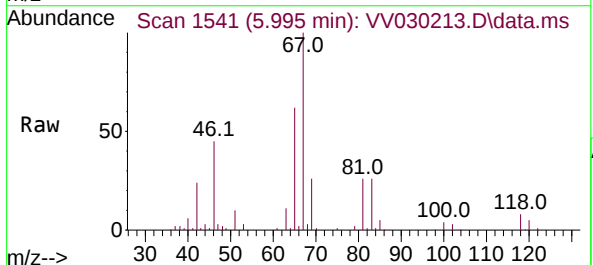
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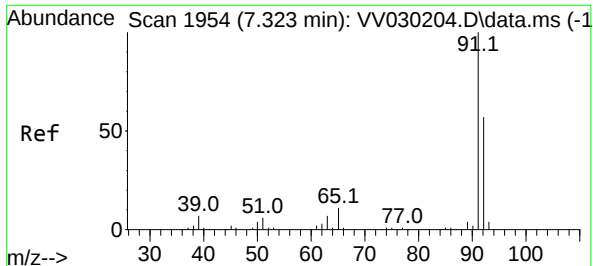
Tgt Ion: 83	Resp:	3560	
Ion	Ratio	Lower	Upper
83	100		
55	79.1	57.6	86.4
98	49.6	38.8	58.2



#37
1,2-Dichloropropane
Concen: 0.501 ug/L
RT: 5.995 min Scan# 1541
Delta R.T. -0.106 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

Tgt Ion: 63	Resp:	5159	
Ion Ratio	Lower	Upper	
63 100			
112 0.0	3.8	5.6#	





#42

Toluene

Concen: 0.284 ug/L

RT: 7.326 min Scan# 1954

Delta R.T. 0.003 min

Lab File: VV030213.D

Acq: 15 Mar 2023 15:48

Instrument :

MSVOA_V

ClientSampleId :

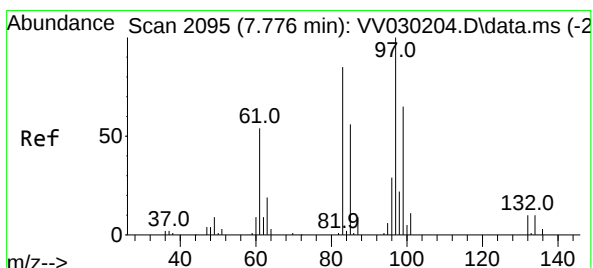
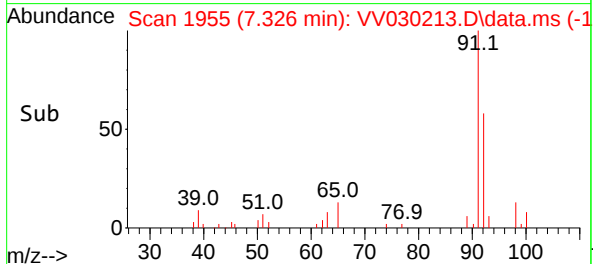
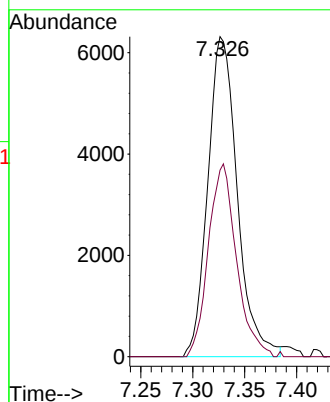
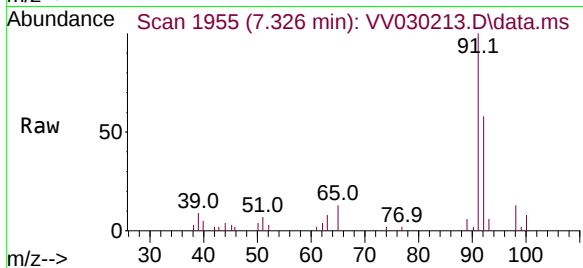
CB925

Tgt Ion: 91 Resp: 12441

Ion Ratio Lower Upper

91 100

92 58.3 39.6 73.6



#45

1,1,2-Trichloroethane

Concen: 0.147 ug/L

RT: 7.725 min Scan# 2079

Delta R.T. -0.052 min

Lab File: VV030213.D

Acq: 15 Mar 2023 15:48

Tgt Ion: 97 Resp: 1085

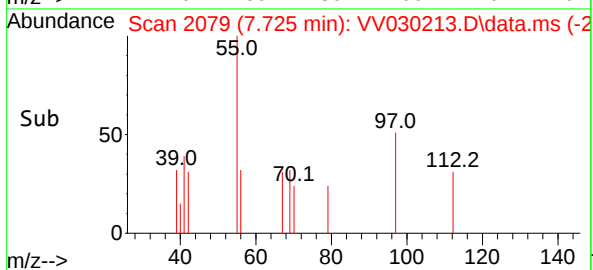
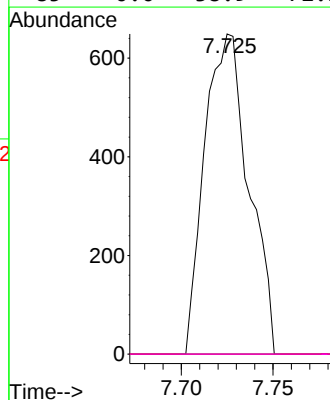
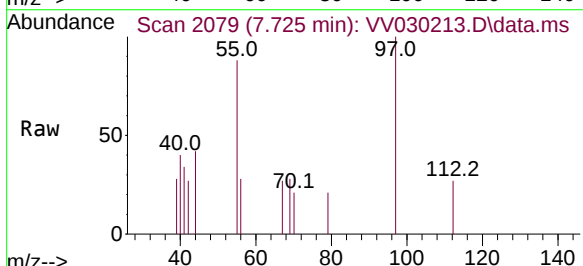
Ion Ratio Lower Upper

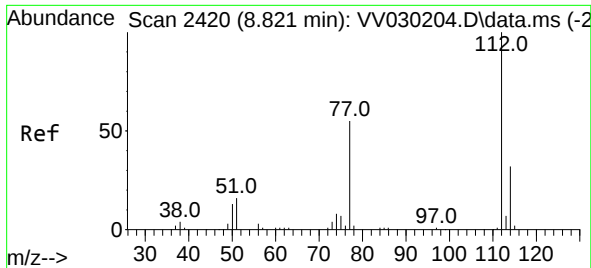
97 100

99 0.0 42.6 79.2#

83 0.0 57.7 107.3#

85 0.0 38.9 72.2#

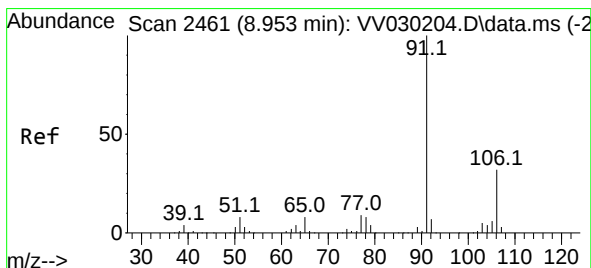
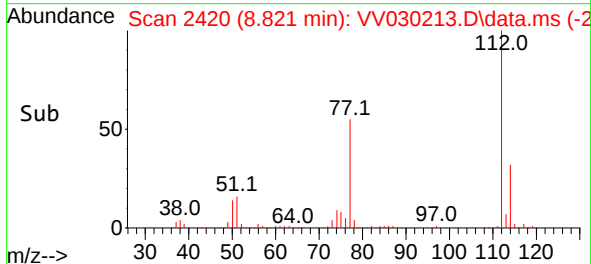
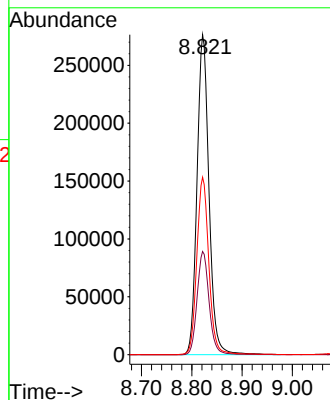
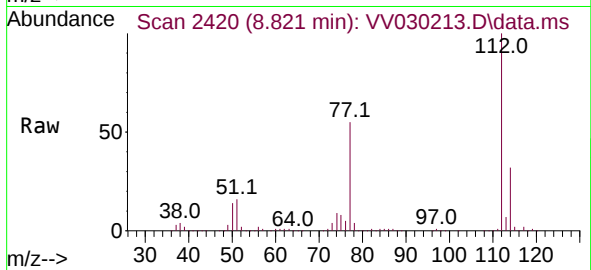




#51
Chlorobenzene
Concen: 15.423 ug/L
RT: 8.821 min Scan# 2420
Delta R.T. -0.000 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

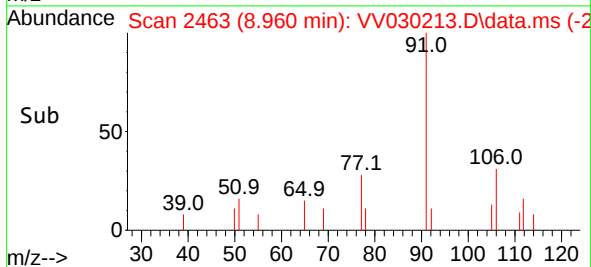
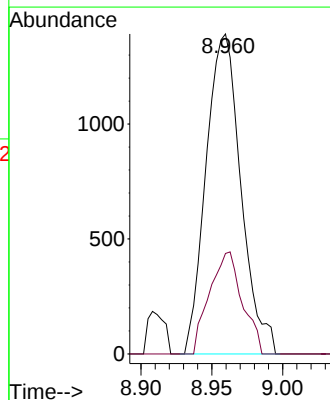
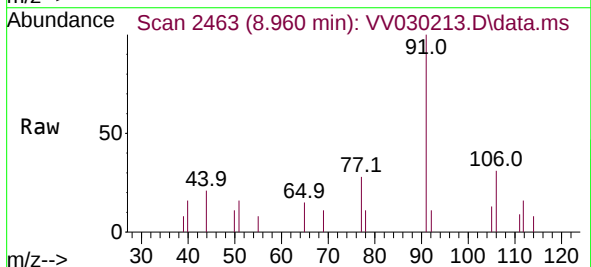
Instrument :
MSVOA_V
ClientSampleId :
CB925

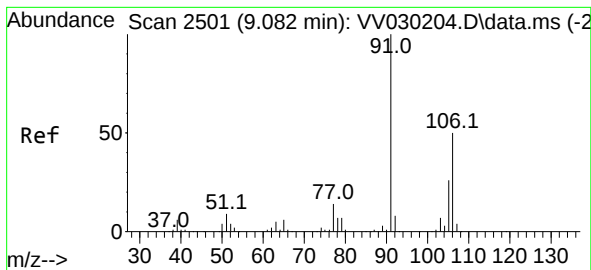
Tgt Ion:112 Resp: 456030
Ion Ratio Lower Upper
112 100
114 32.3 22.5 41.7
77 55.5 45.3 67.9



#52
Ethylbenzene
Concen: 0.050 ug/L
RT: 8.960 min Scan# 2463
Delta R.T. 0.006 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

Tgt Ion: 91 Resp: 2388
Ion Ratio Lower Upper
91 100
106 31.4 22.0 40.8





#53

m,p-Xylene

Concen: 0.149 ug/L

RT: 9.082 min Scan# 2501

Delta R.T. -0.000 min

Lab File: VV030213.D

Acq: 15 Mar 2023 15:48

Instrument :

MSVOA_V

ClientSampleId :

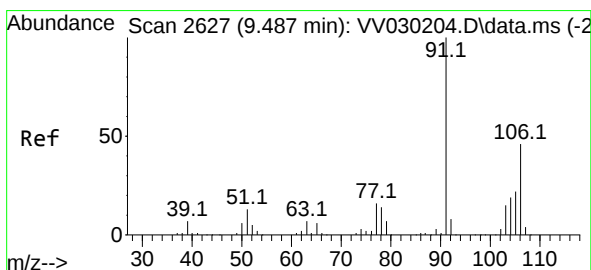
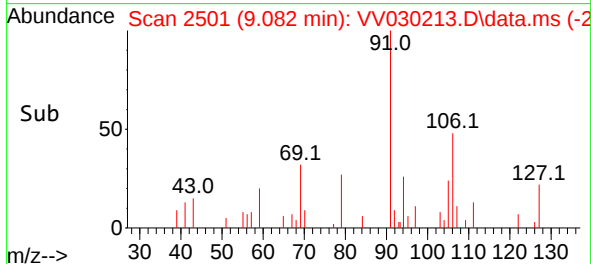
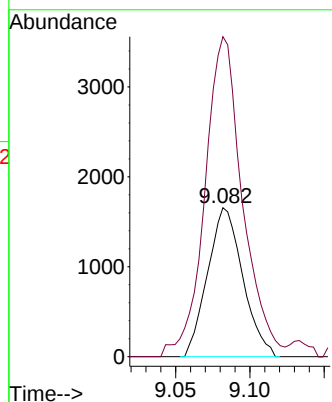
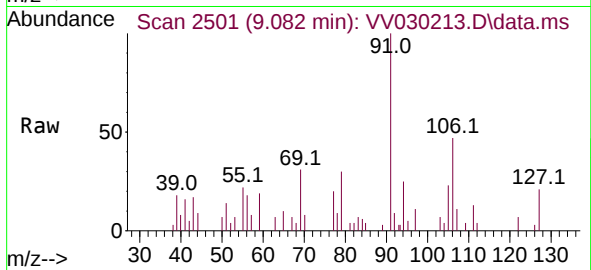
CB925

Tgt Ion:106 Resp: 2725

Ion Ratio Lower Upper

106 100

91 214.8 142.5 264.7



#54

o-Xylene

Concen: 0.146 ug/L

RT: 9.487 min Scan# 2627

Delta R.T. -0.000 min

Lab File: VV030213.D

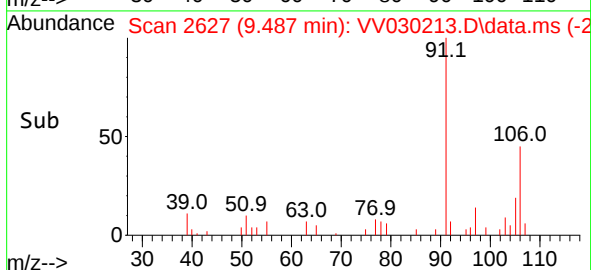
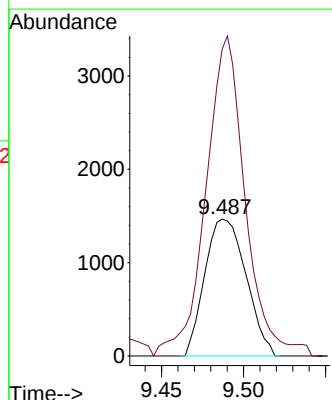
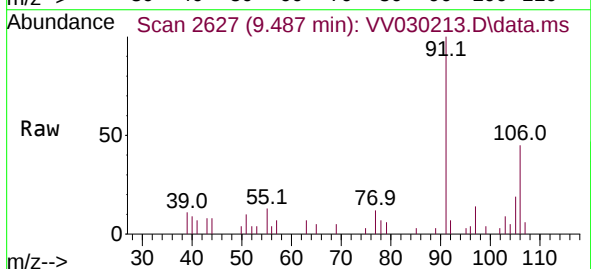
Acq: 15 Mar 2023 15:48

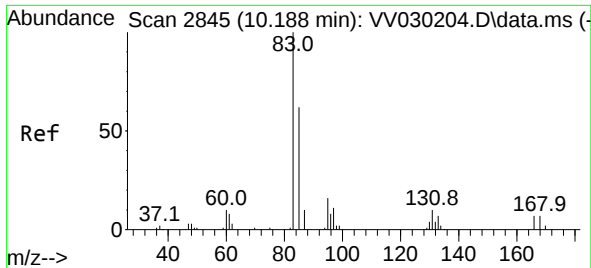
Tgt Ion:106 Resp: 2559

Ion Ratio Lower Upper

106 100

91 224.0 148.8 276.4





#57

1,1,2,2-Tetrachloroethane

Concen: 0.195 ug/L

RT: 10.185 min Scan# 2845

Delta R.T. -0.003 min

Lab File: VV030213.D

Acq: 15 Mar 2023 15:48

Instrument :

MSVOA_V

ClientSampleId :

CB925

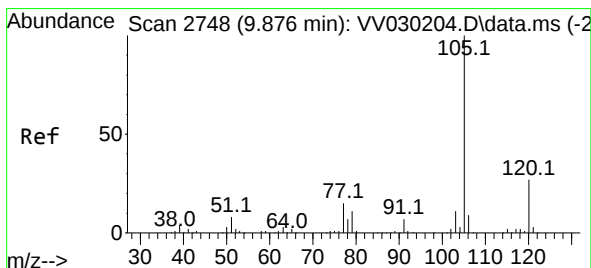
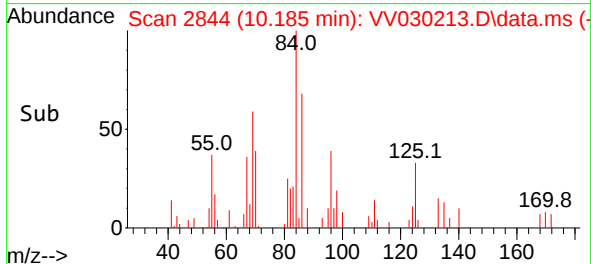
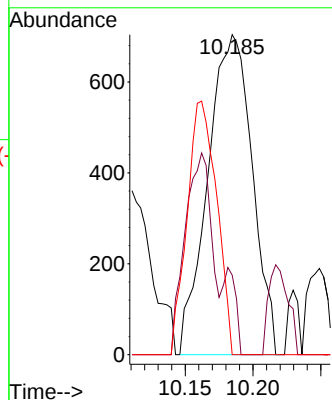
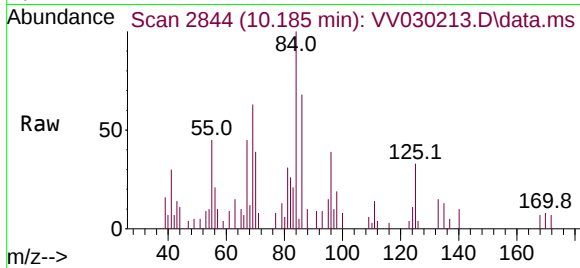
Tgt Ion: 83 Resp: 1606

Ion Ratio Lower Upper

83 100

85 24.9 45.0 83.6#

131 0.0 8.2 12.4#



#60

Isopropylbenzene

Concen: 1.000 ug/L

RT: 9.876 min Scan# 2748

Delta R.T. -0.000 min

Lab File: VV030213.D

Acq: 15 Mar 2023 15:48

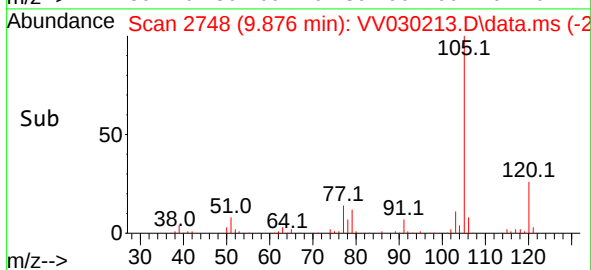
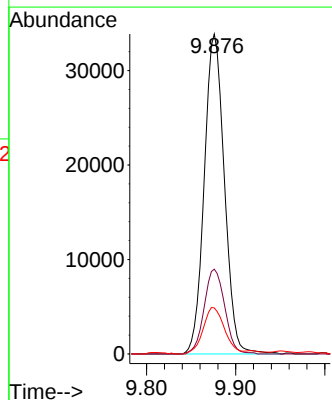
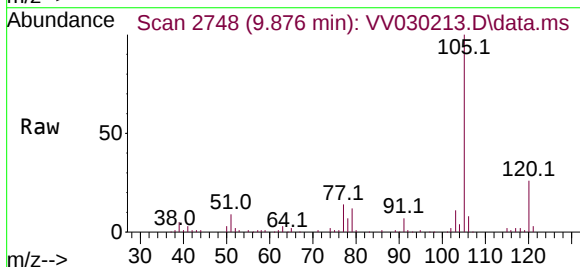
Tgt Ion: 105 Resp: 53149

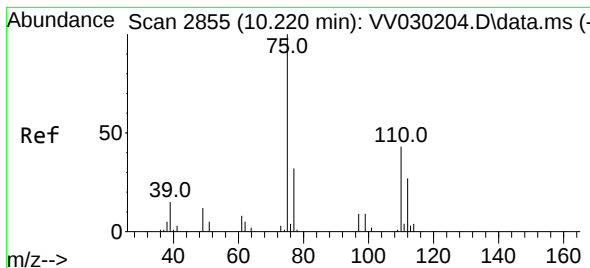
Ion Ratio Lower Upper

105 100

120 27.1 21.4 32.0

77 15.4 12.1 18.1





#61

1,2,3-Trichloropropane

Concen: 4.087 ug/L

RT: 11.214 min Scan# 3164

Delta R.T. 0.993 min

Lab File: VV030213.D

Acq: 15 Mar 2023 15:48

Instrument :

MSVOA_V

ClientSampleId :

CB925

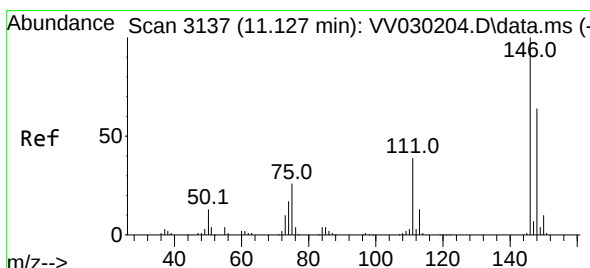
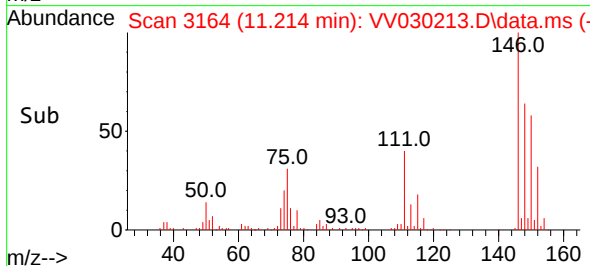
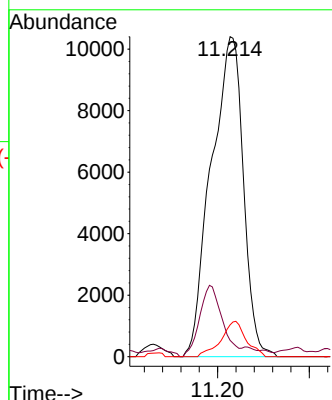
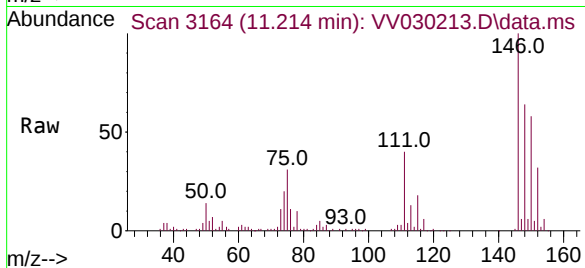
Tgt Ion: 75 Resp: 25259

Ion Ratio Lower Upper

75 100

77 0.0 26.5 39.7#

110 8.6 31.8 47.6#



#64

1,3-Dichlorobenzene

Concen: 0.073 ug/L

RT: 11.130 min Scan# 3138

Delta R.T. 0.003 min

Lab File: VV030213.D

Acq: 15 Mar 2023 15:48

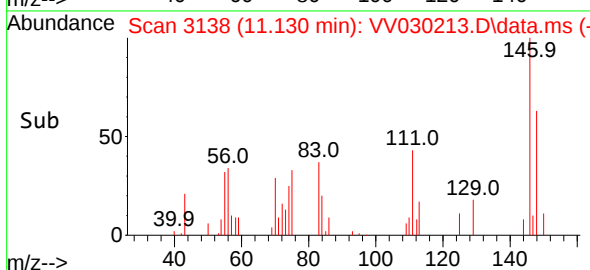
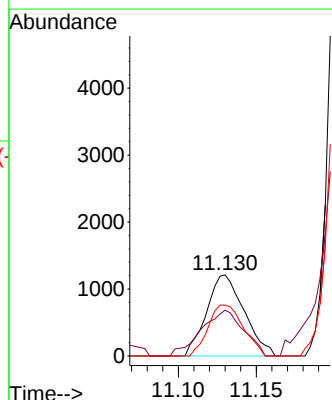
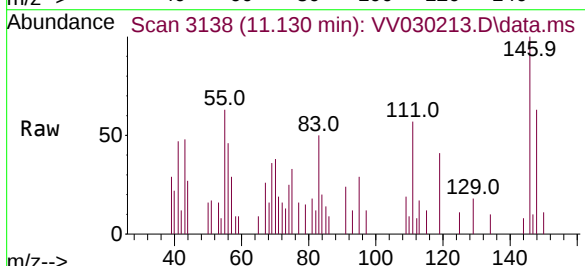
Tgt Ion: 146 Resp: 2021

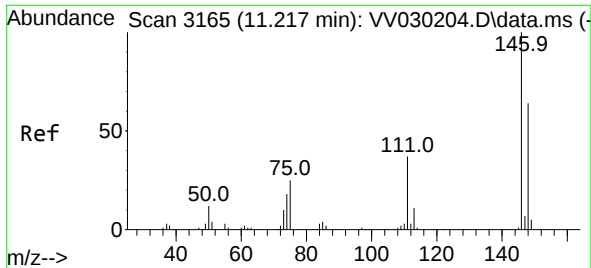
Ion Ratio Lower Upper

146 100

111 56.5 27.7 51.5#

148 62.8 44.5 82.7

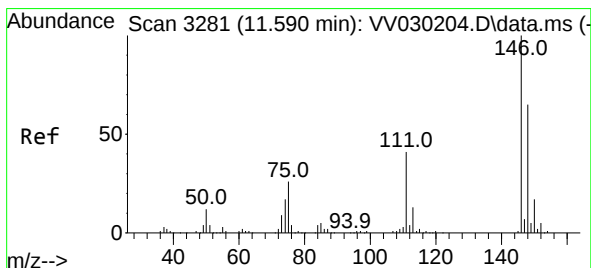
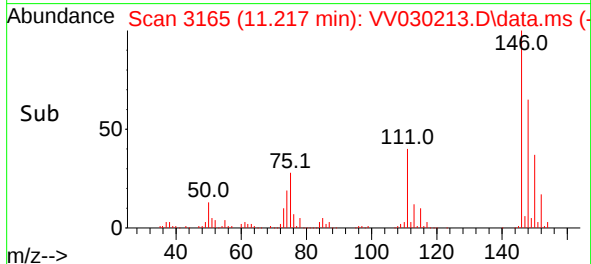
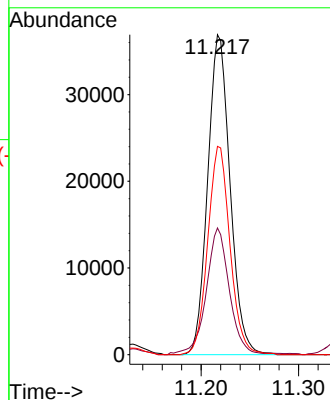
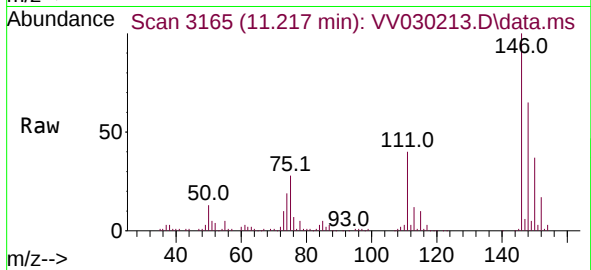




#65
1,4-Dichlorobenzene
Concen: 2.109 ug/L
RT: 11.217 min Scan# 3165
Delta R.T. -0.000 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

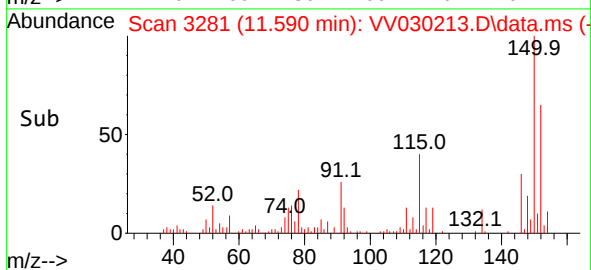
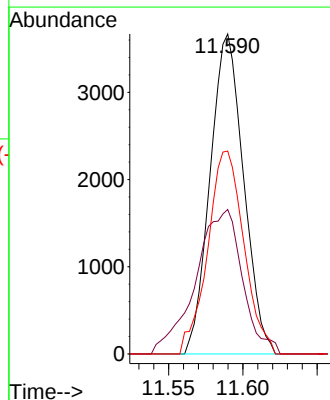
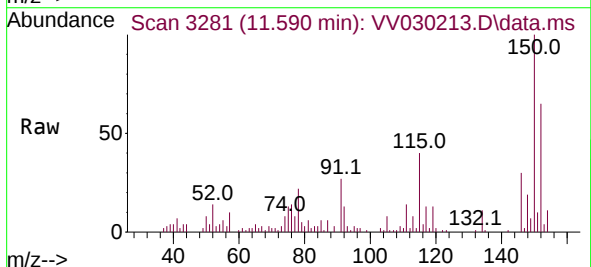
Instrument :
MSVOA_V
ClientSampleId :
CB925

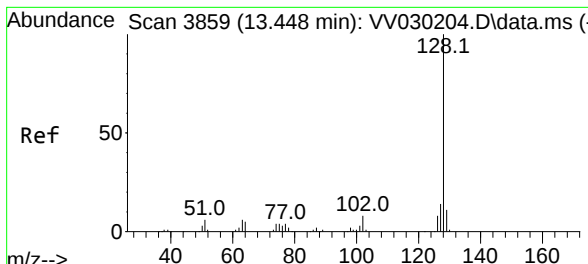
Tgt Ion:146 Resp: 58881
Ion Ratio Lower Upper
146 100
111 39.6 27.4 51.0
148 65.1 44.1 81.9



#67
1,2-Dichlorobenzene
Concen: 0.235 ug/L
RT: 11.590 min Scan# 3281
Delta R.T. -0.000 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

Tgt Ion:146 Resp: 5741
Ion Ratio Lower Upper
146 100
111 45.2 33.5 50.3
148 63.4 51.3 76.9





#71
Naphthalene
Concen: 0.149 ug/L
RT: 13.451 min Scan# 3860
Delta R.T. 0.003 min
Lab File: VV030213.D
Acq: 15 Mar 2023 15:48

Instrument :
MSVOA_V
ClientSampleId :
CB925

Tgt Ion:	128	Resp:	3585
Ion	Ratio	Lower	Upper
128	100		
129	22.7	8.6	13.0#
127	18.0	10.4	15.6#

