

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW020524\
 Data File : VW033991.D
 Acq On : 05 Feb 2024 16:26
 Operator : SY/MD
 Sample : P1289-11
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Feb 06 05:15:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR012524WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Feb 06 05:11:25 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.645	114	63355	5.000	ug/L	0.11
28) Chlorobenzene-d5	8.805	117	73814	5.000	ug/L	0.02
58) 1,4-Dichlorobenzene-d4	11.191	152	41846	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	27227	5.549	ug/L	0.00
Spiked Amount	5.000	Range 40 - 130	Recovery	=	111.000%	
7) Chloroethane-d5	1.539	69	25162	5.855	ug/L	0.00
Spiked Amount	5.000	Range 65 - 130	Recovery	=	117.000%	
11) 1,1-Dichloroethene-d2	2.066	65	12857	5.433	ug/L	0.00
Spiked Amount	5.000	Range 60 - 125	Recovery	=	108.600%	
20) 2-Butanone-d5	4.027	46	214	0.260	ug/L	0.18
Spiked Amount	50.000	Range 40 - 130	Recovery	=	0.520%#	
24) Chloroform-d	0.000	84	0	0.000	ug/L	
Spiked Amount	5.000	Range 70 - 125	Recovery	=	0.000%#	
26) 1,2-Dichloroethane-d4	5.195	65	16654	3.997	ug/L	0.25
Spiked Amount	5.000	Range 70 - 130	Recovery	=	80.000%	
32) Benzene-d6	5.088	84	287107	12.964	ug/L	0.13
Spiked Amount	5.000	Range 70 - 125	Recovery	=	259.200%#	
36) 1,2-Dichloropropane-d6	6.069	67	18981	3.066	ug/L	0.08
Spiked Amount	5.000	Range 60 - 140	Recovery	=	61.400%	
41) Toluene-d8	7.288	98	74341	3.652	ug/L	0.05
Spiked Amount	5.000	Range 70 - 130	Recovery	=	73.000%	
43) trans-1,3-Dichloroprop...	7.593	79	9763	4.177	ug/L	0.04
Spiked Amount	5.000	Range 55 - 130	Recovery	=	83.600%	
46) 2-Hexanone-d5	8.053	63	33803	40.509	ug/L	0.02
Spiked Amount	50.000	Range 45 - 130	Recovery	=	81.020%	
56) 1,1,2,2-Tetrachloroeth...	10.162	84	15919	4.242	ug/L	0.00
Spiked Amount	5.000	Range 65 - 120	Recovery	=	84.800%	
66) 1,2-Dichlorobenzene-d4	11.567	152	29120	3.826	ug/L	0.00
Spiked Amount	5.000	Range 80 - 120	Recovery	=	76.600%#	
Target Compounds						Qvalue
3) Chloromethane	1.217	50	71953	11.362	ug/L	93
5) Vinyl chloride	1.282	62	39868	6.588	ug/L #	1
6) Bromomethane	1.503	94	633	0.199	ug/L	97
8) Chloroethane	1.603	64	49467	11.982	ug/L	92
9) Trichlorofluoromethane	1.728	101	20961	2.404	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.079	101	98457	21.598	ug/L #	32
13) Acetone	1.954	43	477609	763.958	ug/L	82
14) Carbon disulfide	2.265	76	4515	0.315	ug/L	95
15) Methyl Acetate	2.468	43	1053	0.712	ug/L #	85
16) Methylene chloride	2.455	84	7205	1.697	ug/L #	1
19) 1,1-Dichloroethane	3.198	63	19957272	2409.305	ug/L	96
22) cis-1,2-Dichloroethene	3.822	96	926	0.181	ug/L #	1
25) Chloroform	4.326	83	90714	10.834	ug/L	95
27) 1,2-Dichloroethane	5.252	62	50953	10.627	ug/L	98
31) Carbon tetrachloride	4.587	117	46627980	5377.302	ug/L	99
34) Trichloroethene	5.921	95	4277509	667.593	ug/L	98
35) Methylcyclohexane	6.069	83	5071	0.504	ug/L #	17
37) 1,2-Dichloropropane	6.069	63	2662	0.496	ug/L #	87
39) cis-1,3-Dichloropropene	6.960	75	906	0.111	ug/L #	34

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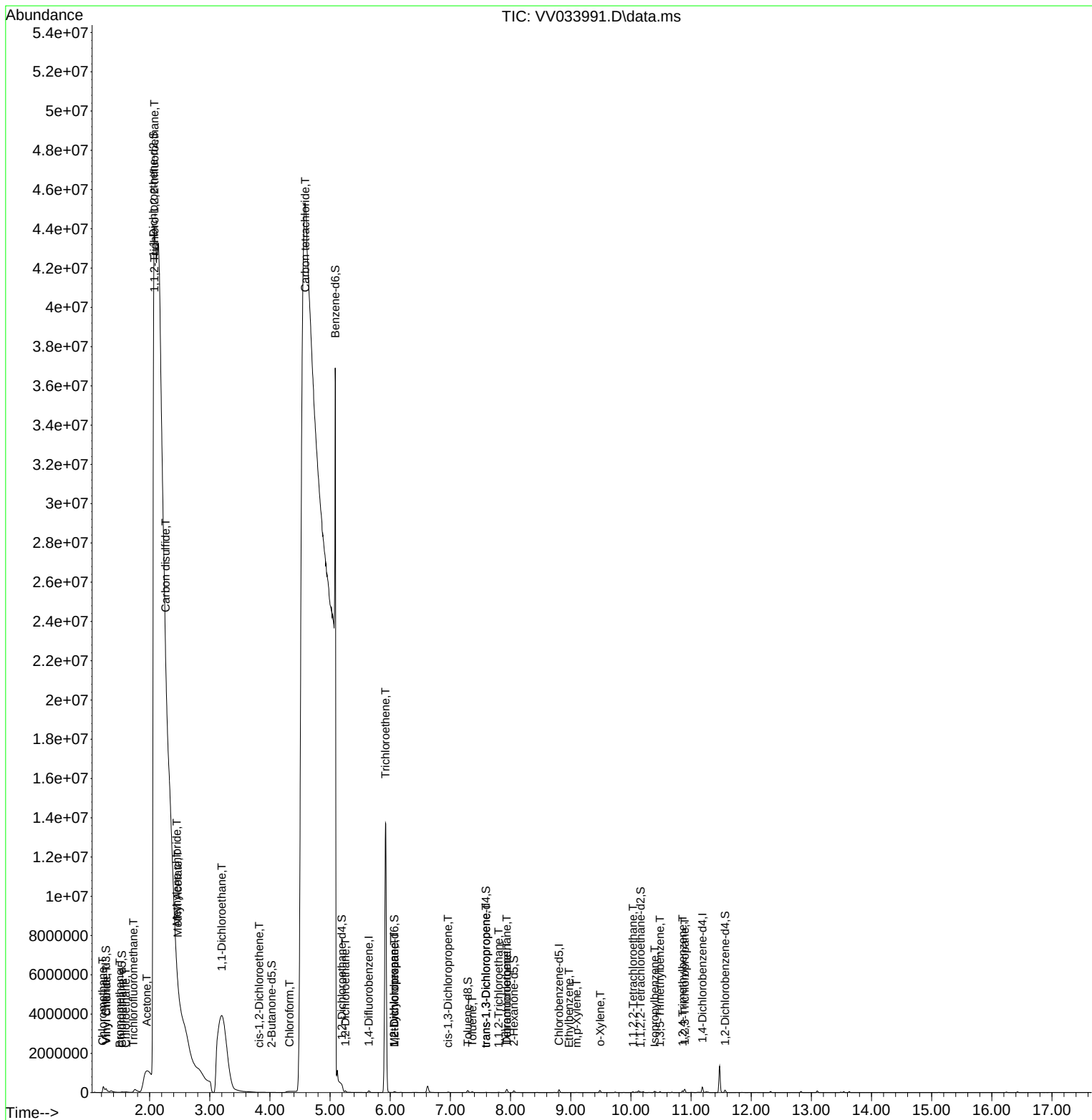
Quant Time: Feb 06 05:15:48 2024
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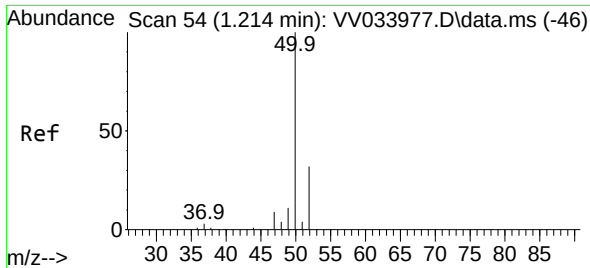
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.365	91	31944	1.350	ug/L	96
44) trans-1,3-Dichloropropene	7.593	75	609	0.097	ug/L	92
45) 1,1,2-Trichloroethane	7.802	97	5846	1.765	ug/L	93
47) Tetrachloroethene	7.937	164	37068	7.120	ug/L	98
49) Dibromochloromethane	7.937	129	33981	8.635	ug/L #	11
52) Ethylbenzene	8.973	91	3552	0.130	ug/L	93
53) m,p-Xylene	9.098	106	2910	0.283	ug/L	90
54) o-Xylene	9.490	106	1696	0.171	ug/L	62
57) 1,1,2,2-Tetrachloroethane	10.034	83	1893	0.542	ug/L #	89
60) Isopropylbenzene	10.394	105	49448	1.597	ug/L	92
61) 1,2,3-Trichloropropane	10.895	75	1154	0.401	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.484	105	22658	0.866	ug/L	100
63) 1,2,4-Trimethylbenzene	10.860	105	46014	1.809	ug/L	98

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

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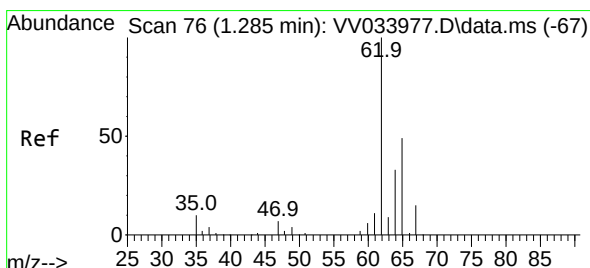
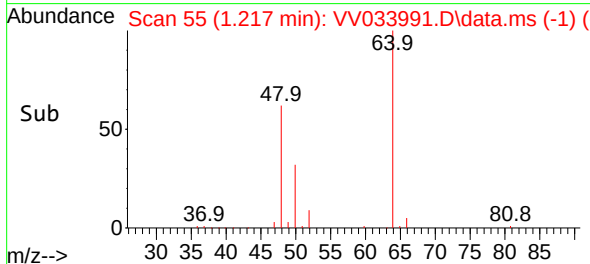
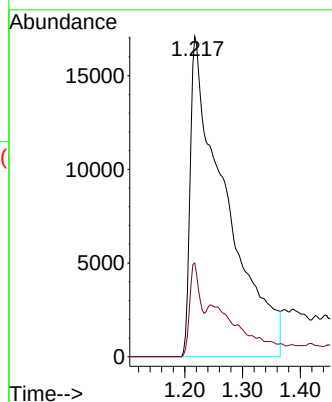
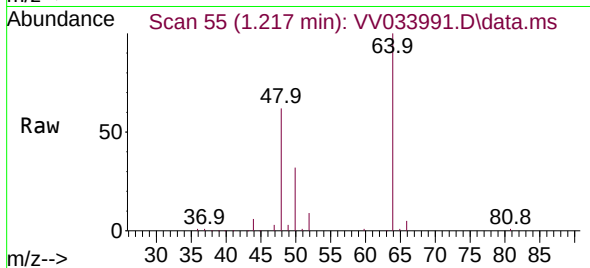




#3
Chloromethane
Concen: 11.362 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

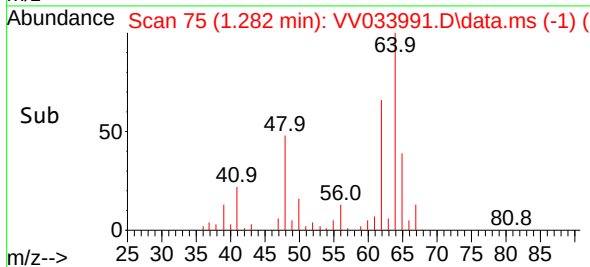
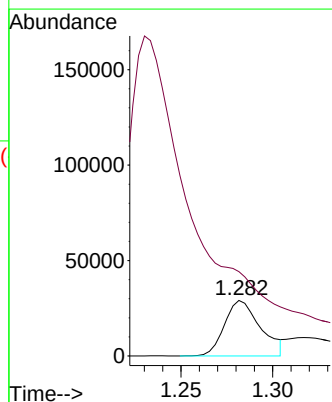
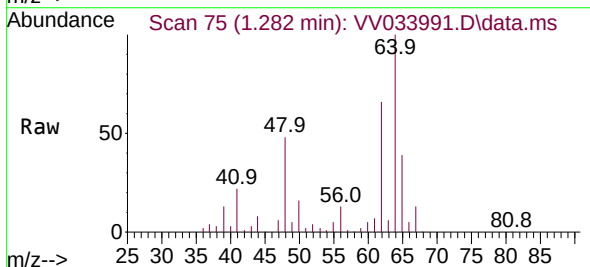
Instrument :
MSVOA_V
ClientSampleId :

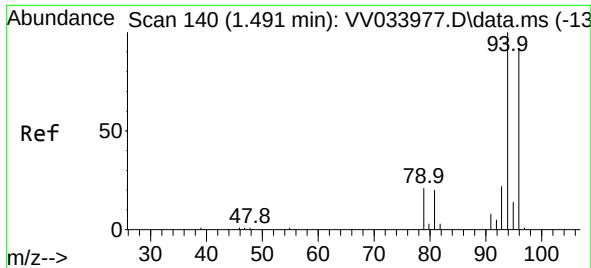
Tgt Ion: 50 Resp: 71953
Ion Ratio Lower Upper
50 100
52 29.3 23.4 43.4



#5
Vinyl chloride
Concen: 6.588 ug/L
RT: 1.282 min Scan# 75
Delta R.T. -0.003 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

Tgt Ion: 62 Resp: 39868
Ion Ratio Lower Upper
62 100
64 151.9 27.2 50.4#





#6

Bromomethane

Concen: 0.199 ug/L

RT: 1.503 min Scan# 14

Delta R.T. 0.013 min

Lab File: VV033991.D

Acq: 05 Feb 2024 16:26

Instrument :

MSVOA_V

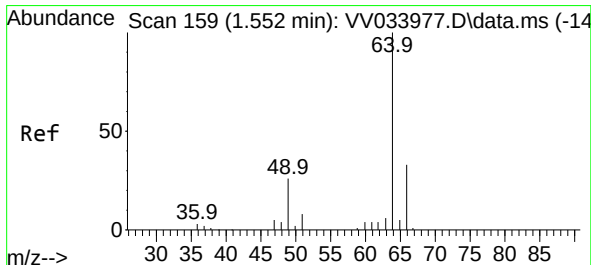
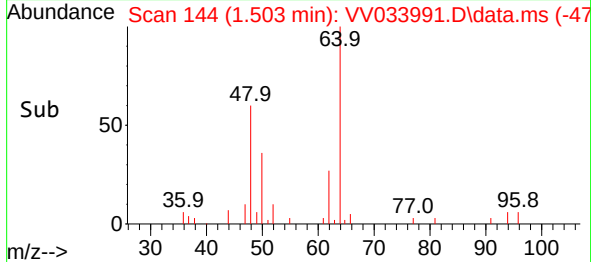
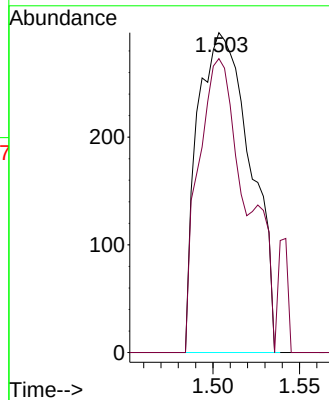
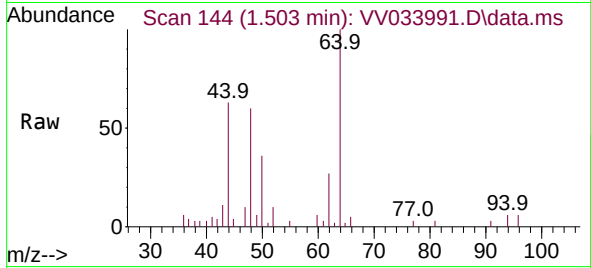
ClientSampleId :

Tgt Ion: 94 Resp: 633

Ion Ratio Lower Upper

94 100

96 91.9 66.6 123.8



#8

Chloroethane

Concen: 11.982 ug/L

RT: 1.603 min Scan# 175

Delta R.T. 0.051 min

Lab File: VV033991.D

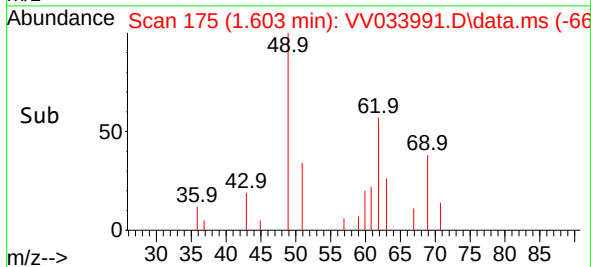
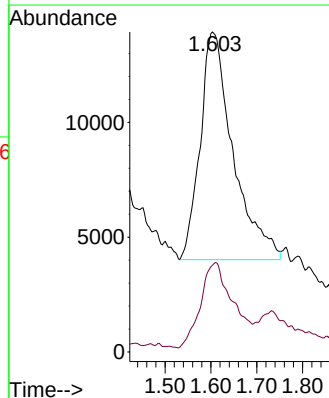
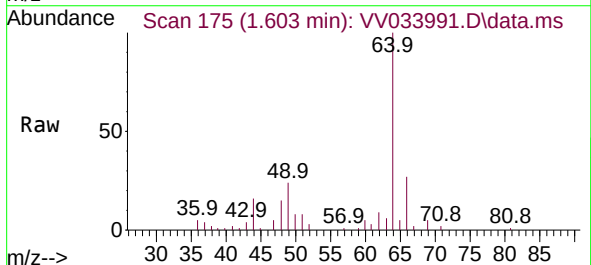
Acq: 05 Feb 2024 16:26

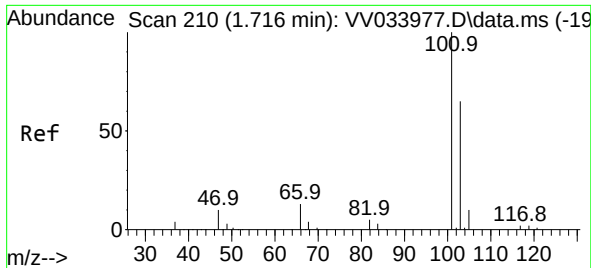
Tgt Ion: 64 Resp: 49467

Ion Ratio Lower Upper

64 100

66 27.1 22.0 41.0

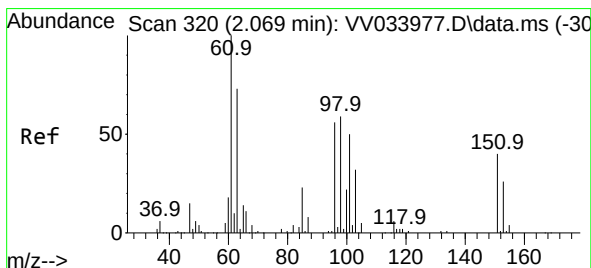
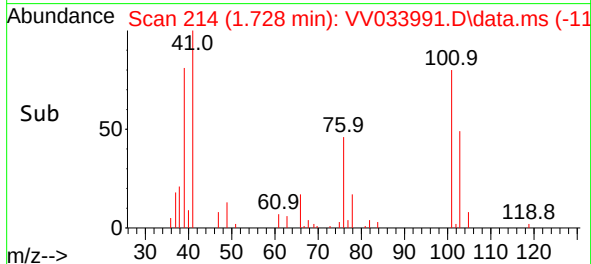
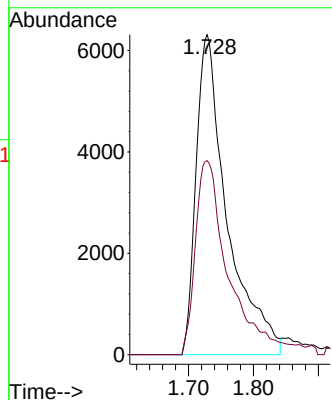
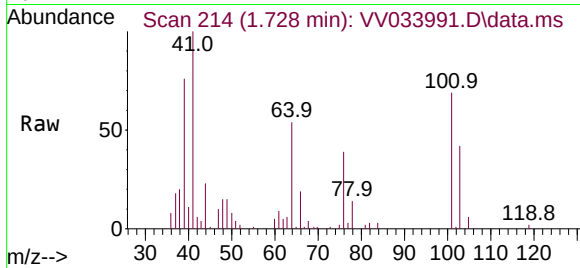




#9
 Trichlorofluoromethane
 Concen: 2.404 ug/L
 RT: 1.728 min Scan# 210
 Delta R.T. 0.013 min
 Lab File: VV033991.D
 Acq: 05 Feb 2024 16:26

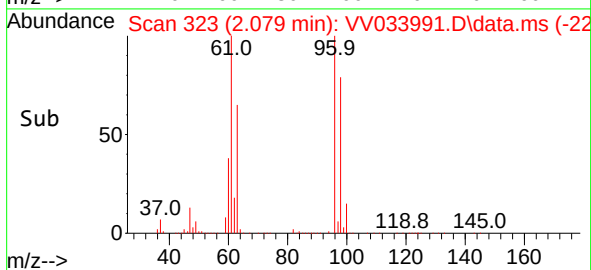
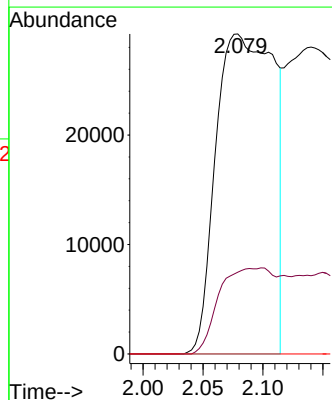
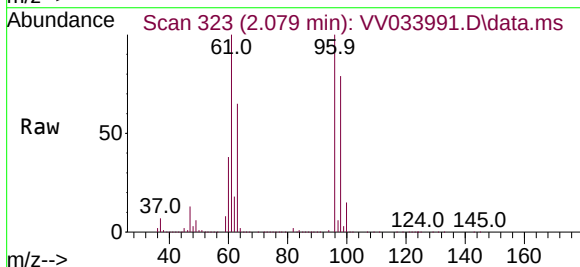
Instrument :
 MSVOA_V
 ClientSampleId :

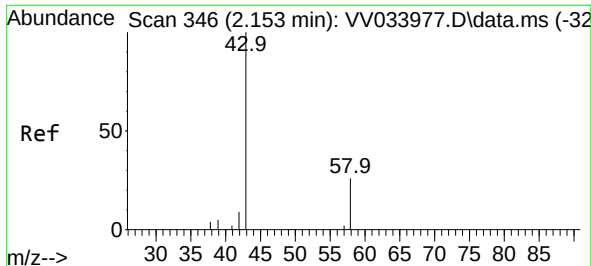
Tgt Ion:101 Resp: 20961
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.0 76.4



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 21.598 ug/L
 RT: 2.079 min Scan# 323
 Delta R.T. 0.010 min
 Lab File: VV033991.D
 Acq: 05 Feb 2024 16:26

Tgt Ion:101 Resp: 98457
 Ion Ratio Lower Upper
 101 100
 85 24.9 37.1 55.7#
 151 0.0 61.7 92.5#





#13

Acetone

Concen: 763.958 ug/L

RT: 1.954 min Scan# 21

Delta R.T. -0.199 min

Lab File: VV033991.D

Acq: 05 Feb 2024 16:26

Instrument :

MSVOA_V

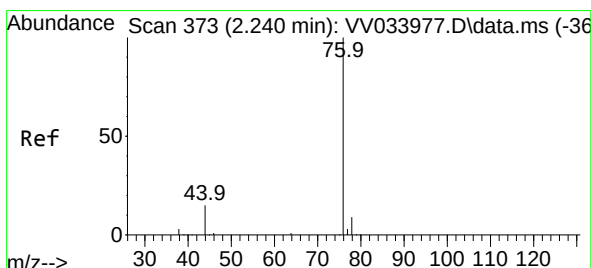
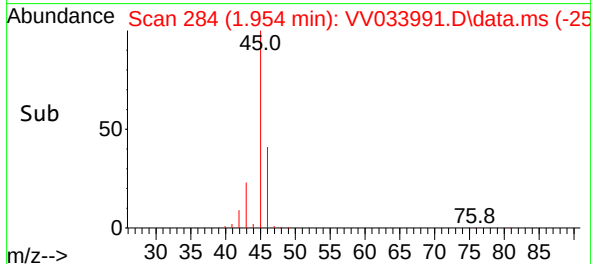
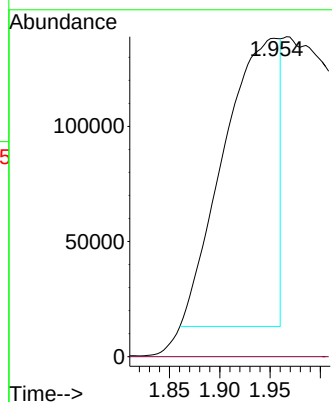
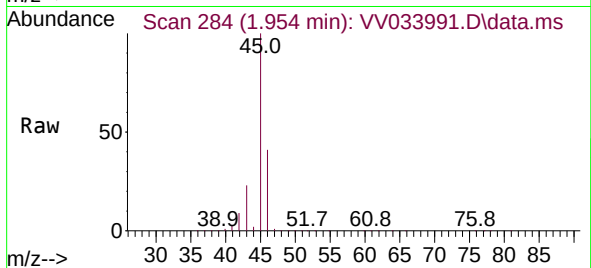
ClientSampleId :

Tgt Ion: 43 Resp: 477609

Ion Ratio Lower Upper

43 100

58 0.8 0.0 13.8



#14

Carbon disulfide

Concen: 0.315 ug/L

RT: 2.265 min Scan# 381

Delta R.T. 0.026 min

Lab File: VV033991.D

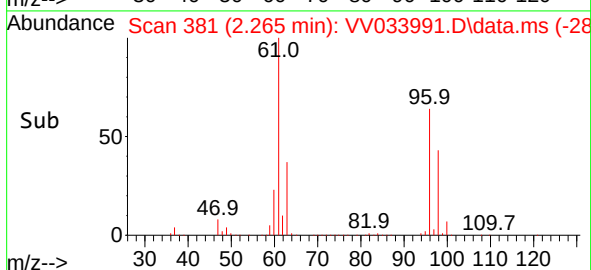
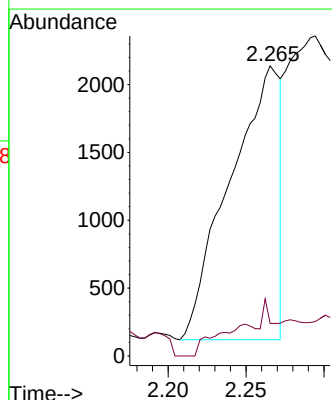
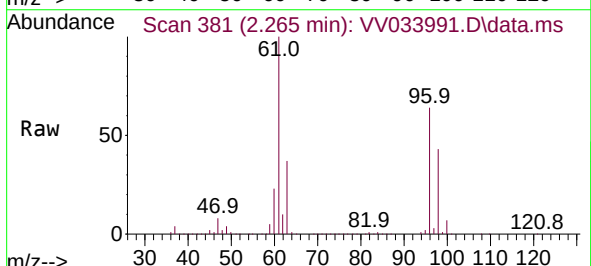
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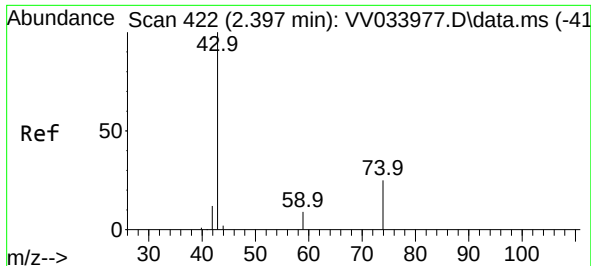
Tgt Ion: 76 Resp: 4515

Ion Ratio Lower Upper

76 100

78 11.2 7.5 11.3

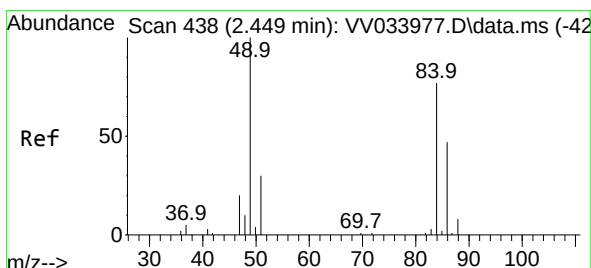
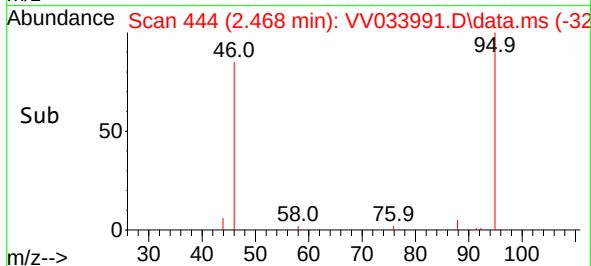
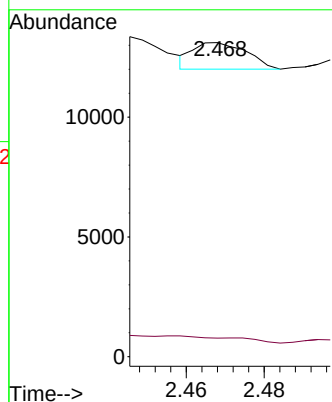
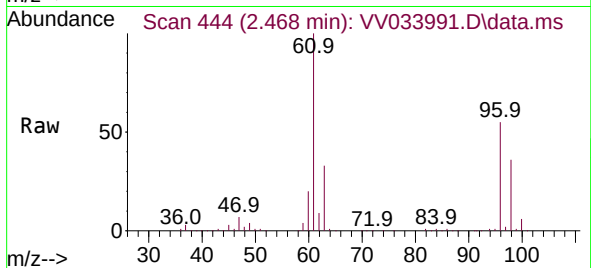




#15
Methyl Acetate
Concen: 0.712 ug/L
RT: 2.468 min Scan# 441
Delta R.T. 0.071 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

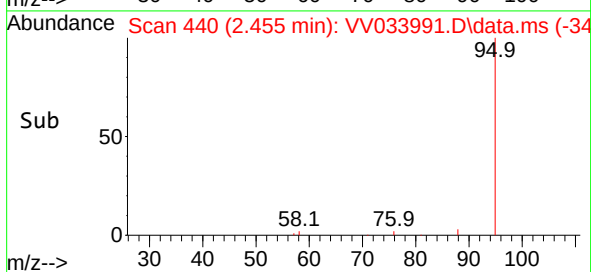
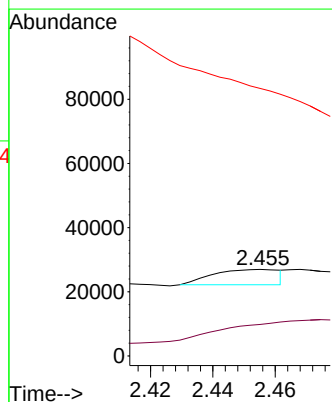
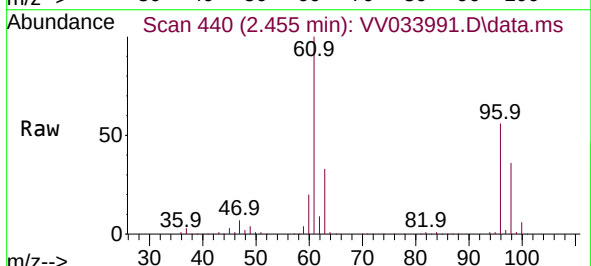
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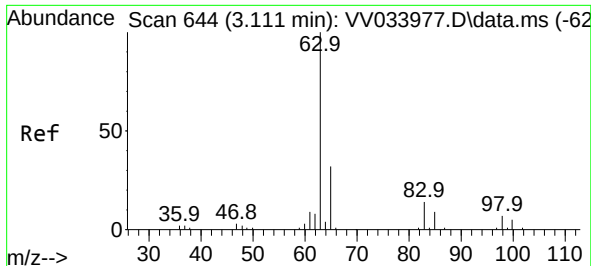
Tgt Ion: 43 Resp: 1053
Ion Ratio Lower Upper
43 100
74 15.7 18.2 27.4#



#16
Methylene chloride
Concen: 1.697 ug/L
RT: 2.455 min Scan# 440
Delta R.T. 0.006 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

Tgt Ion: 84 Resp: 7205
Ion Ratio Lower Upper
84 100
86 36.5 44.7 83.1#
49 309.1 93.7 173.9#





#19

1,1-Dichloroethane

Concen: 2409.305 ug/L

RT: 3.198 min Scan# 61

Delta R.T. 0.087 min

Lab File: VV033991.D

Acq: 05 Feb 2024 16:26

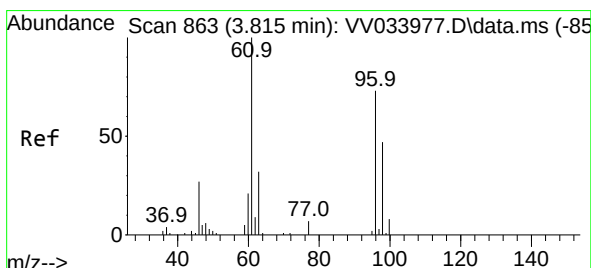
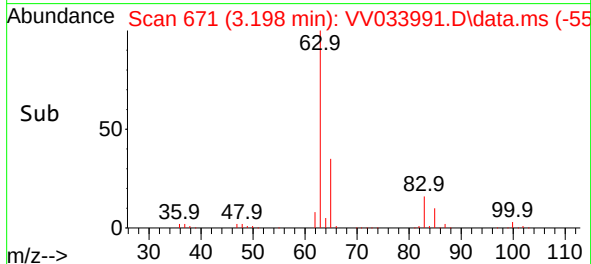
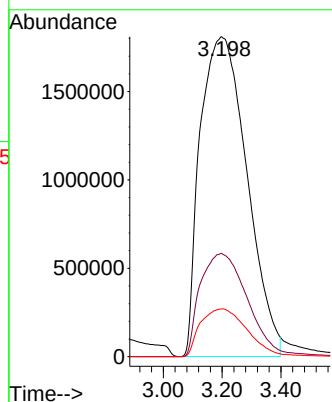
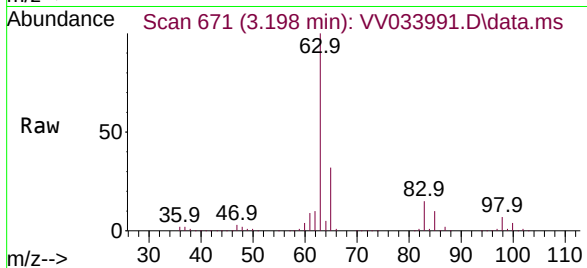
Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 63 Resp:19957272

Ion	Ratio	Lower	Upper
63	100		
65	32.3	20.8	38.6
83	14.9	9.4	17.4



#22

cis-1,2-Dichloroethene

Concen: 0.181 ug/L

RT: 3.822 min Scan# 865

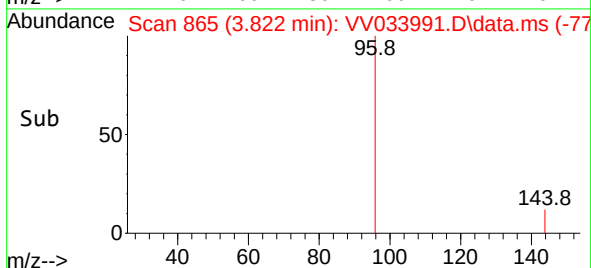
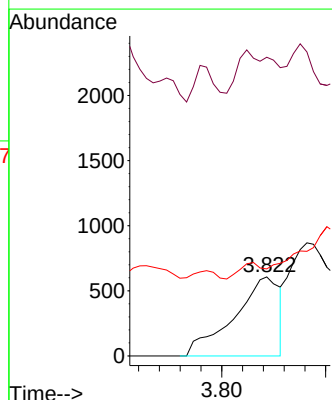
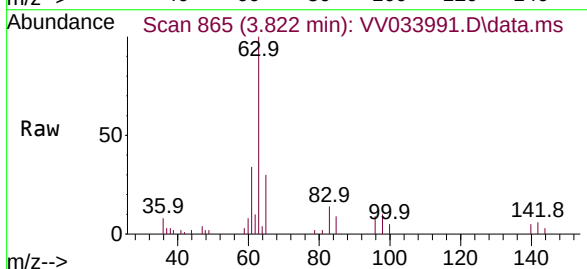
Delta R.T. 0.006 min

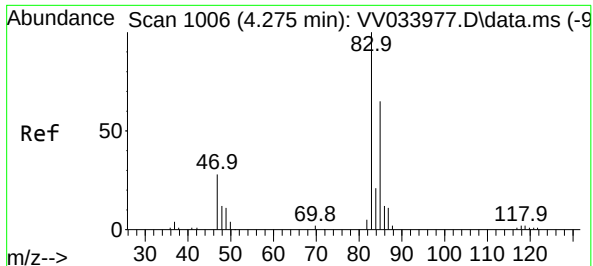
Lab File: VV033991.D

Acq: 05 Feb 2024 16:26

Tgt Ion: 96 Resp: 926

Ion	Ratio	Lower	Upper
96	100		
61	377.9	90.3	167.7#
98	110.0	43.2	80.2#

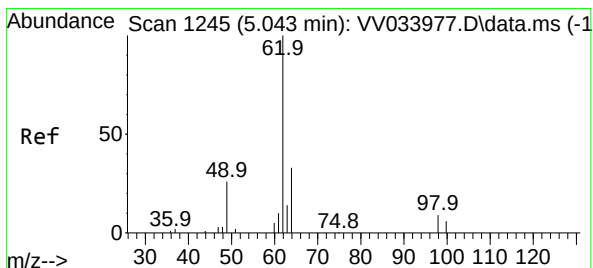
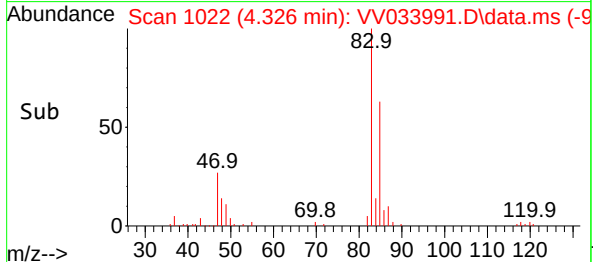
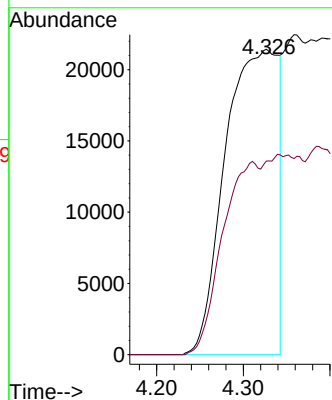
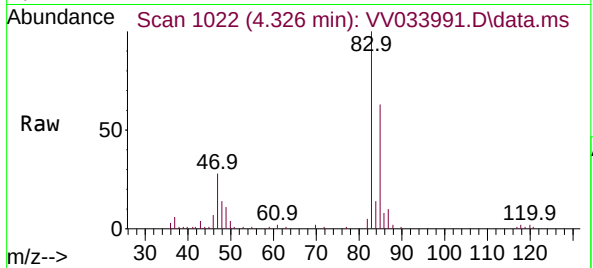




#25
Chloroform
Concen: 10.834 ug/L
RT: 4.326 min Scan# 110
Delta R.T. 0.051 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

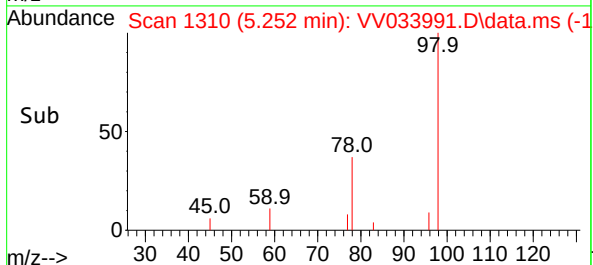
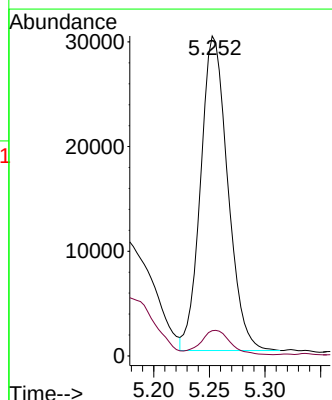
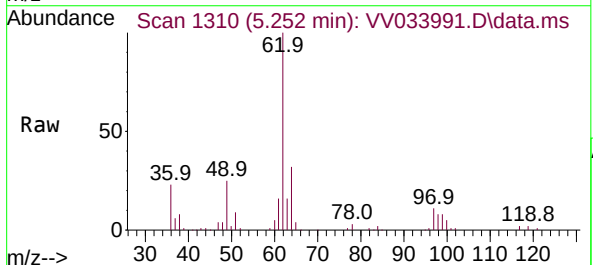
Instrument :
MSVOA_V
ClientSampleId :

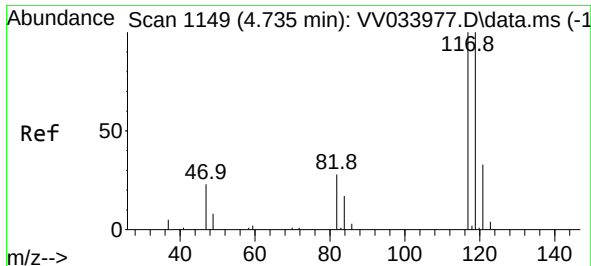
Tgt Ion: 83 Resp: 90714
Ion Ratio Lower Upper
83 100
85 63.4 47.5 88.1



#27
1,2-Dichloroethane
Concen: 10.627 ug/L
RT: 5.252 min Scan# 1310
Delta R.T. 0.209 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

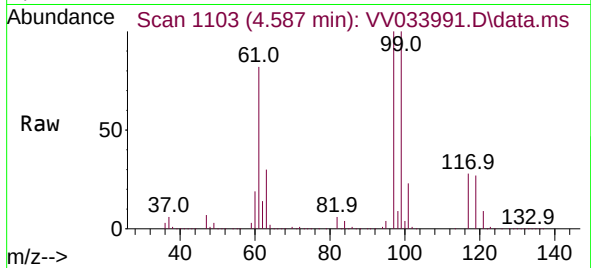
Tgt Ion: 62 Resp: 50953
Ion Ratio Lower Upper
62 100
98 7.9 6.9 10.3



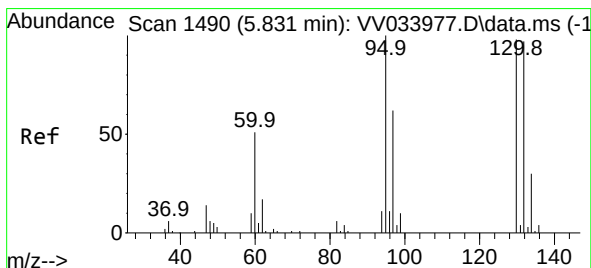
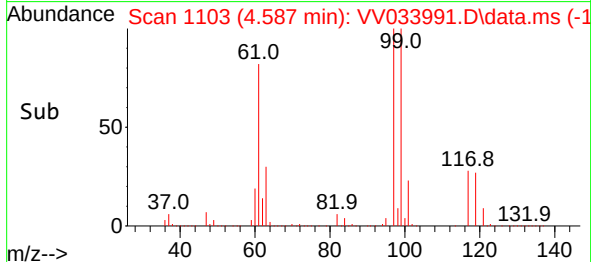
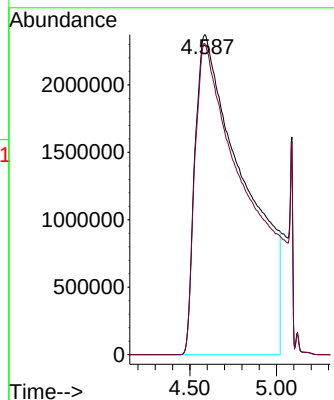


#31
Carbon tetrachloride
Concen: 5377.302 ug/L
RT: 4.587 min Scan# 1149
Delta R.T. -0.148 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

Instrument :
MSVOA_V
ClientSampleId :

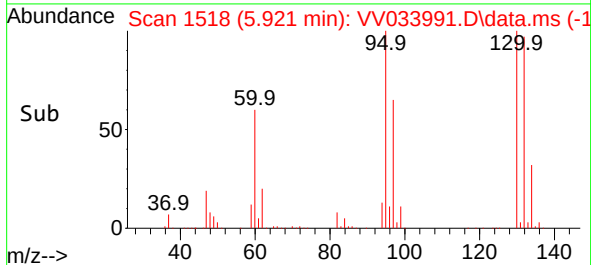
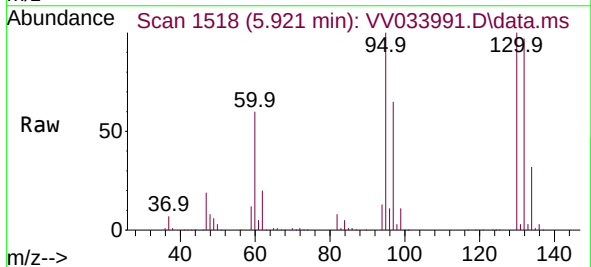
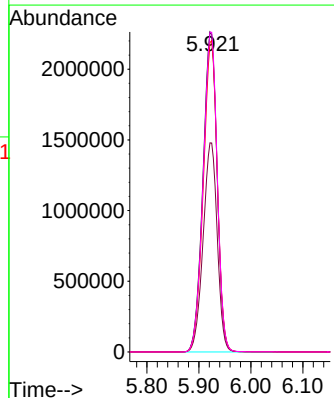


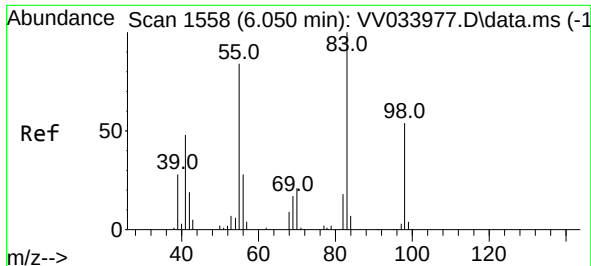
Tgt Ion:117 Resp:46627980
Ion Ratio Lower Upper
117 100
119 93.7 76.1 114.1



#34
Trichloroethene
Concen: 667.593 ug/L
RT: 5.921 min Scan# 1518
Delta R.T. 0.090 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

Tgt Ion: 95 Resp: 4277509
Ion Ratio Lower Upper
95 100
97 65.4 45.1 83.7
132 96.6 66.0 122.6
130 100.0 72.2 134.0





#35

Methylcyclohexane

Concen: 0.504 ug/L

RT: 6.069 min Scan# 1564

Delta R.T. 0.019 min

Lab File: VV033991.D

Acq: 05 Feb 2024 16:26

Instrument :

MSVOA_V

ClientSampleId :

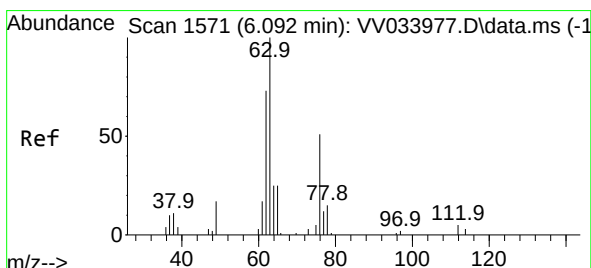
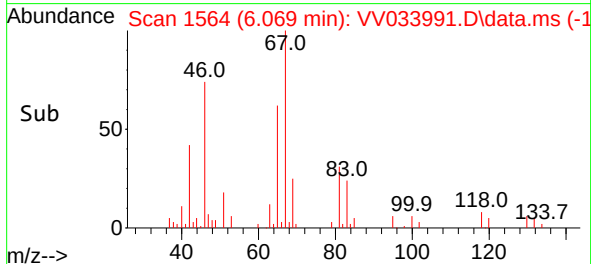
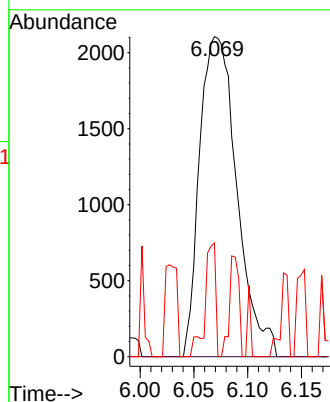
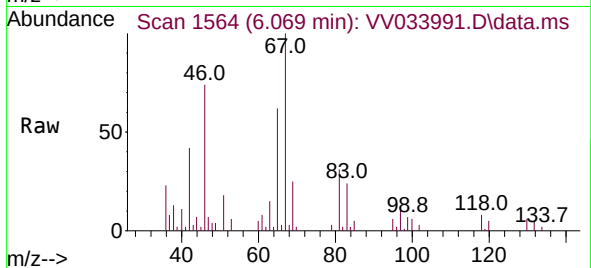
Tgt Ion: 83 Resp: 5071

Ion Ratio Lower Upper

83 100

55 0.8 63.5 95.3#

98 0.0 39.0 58.4#



#37

1,2-Dichloropropane

Concen: 0.496 ug/L

RT: 6.069 min Scan# 1564

Delta R.T. -0.022 min

Lab File: VV033991.D

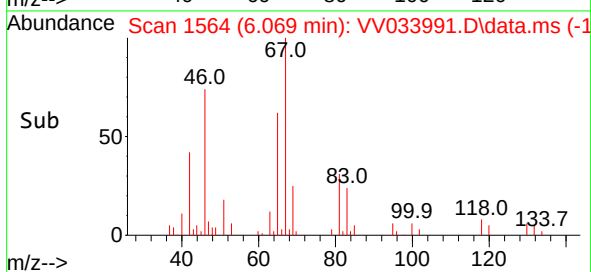
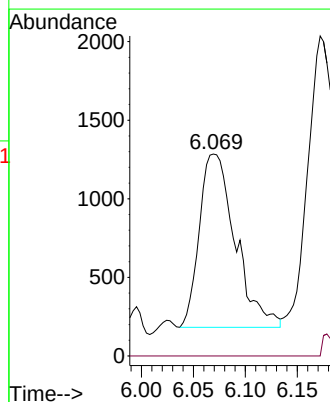
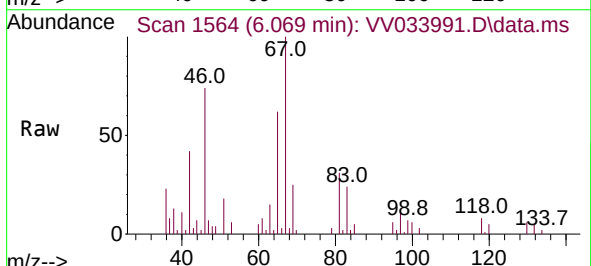
Acq: 05 Feb 2024 16:26

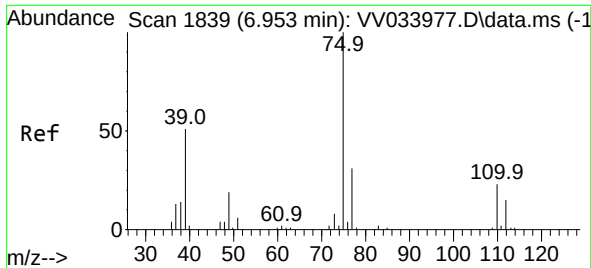
Tgt Ion: 63 Resp: 2662

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.0#

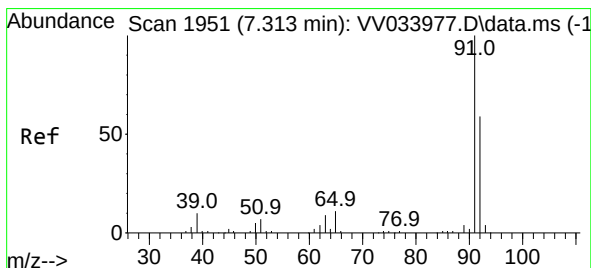
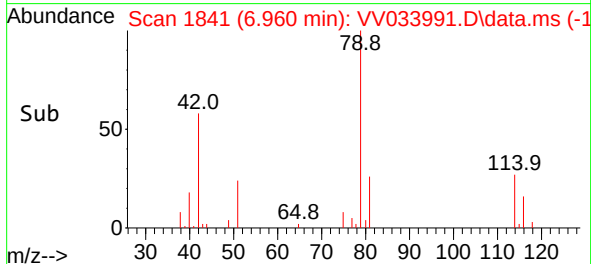
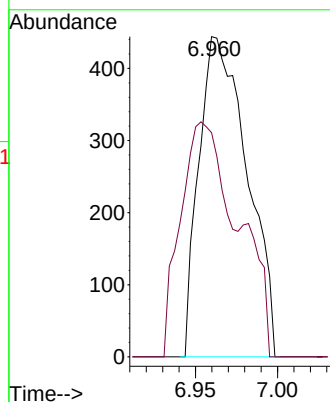
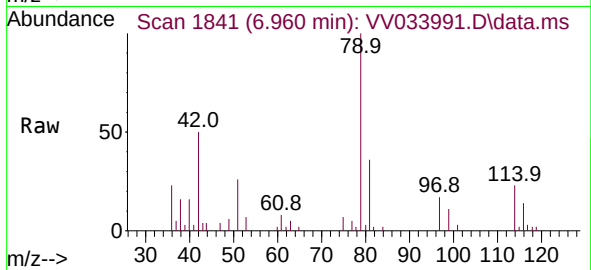




#39
 cis-1,3-Dichloropropene
 Concen: 0.111 ug/L
 RT: 6.960 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VV033991.D
 Acq: 05 Feb 2024 16:26

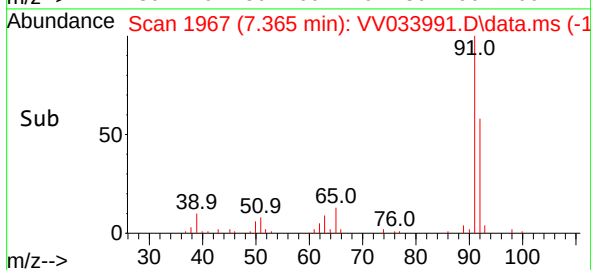
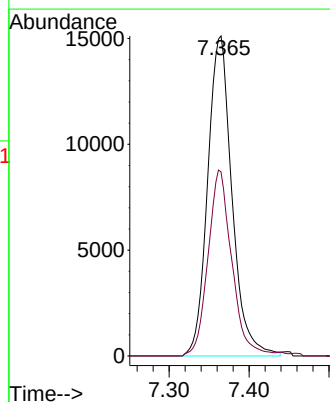
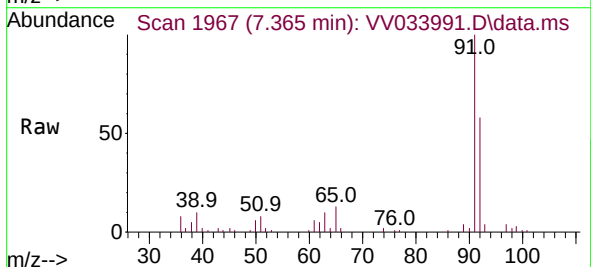
Instrument :
 MSVOA_V
 ClientSampleId :

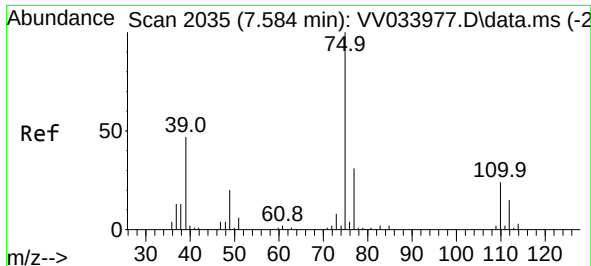
Tgt Ion: 75 Resp: 906
 Ion Ratio Lower Upper
 75 100
 77 70.0 22.9 42.5#



#42
 Toluene
 Concen: 1.350 ug/L
 RT: 7.365 min Scan# 1967
 Delta R.T. 0.051 min
 Lab File: VV033991.D
 Acq: 05 Feb 2024 16:26

Tgt Ion: 91 Resp: 31944
 Ion Ratio Lower Upper
 91 100
 92 57.5 42.1 78.3

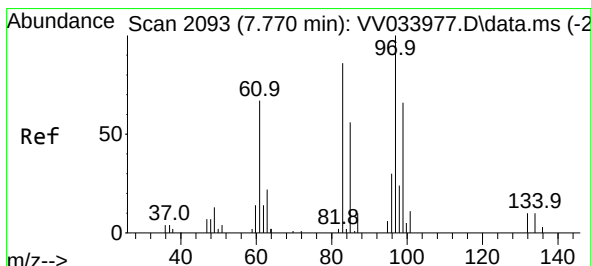
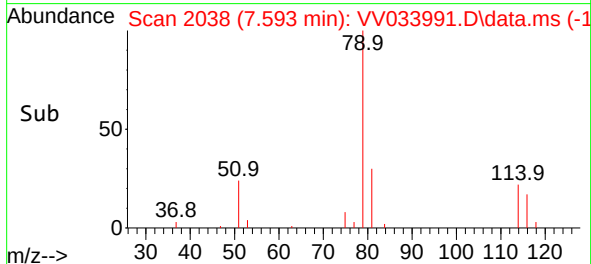
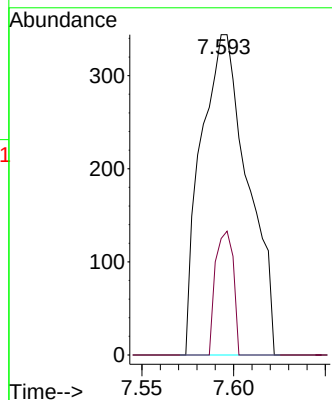
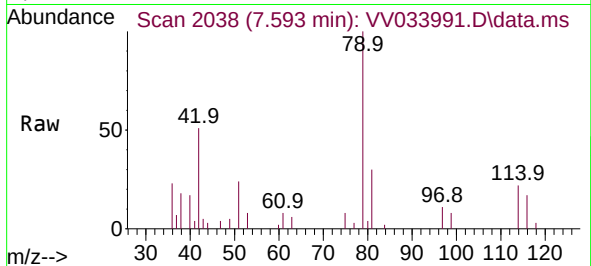




#44
trans-1,3-Dichloropropene
Concen: 0.097 ug/L
RT: 7.593 min Scan# 2103
Delta R.T. 0.010 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

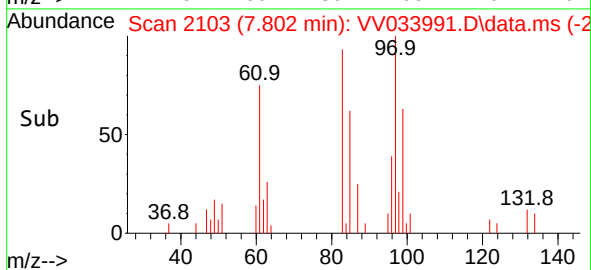
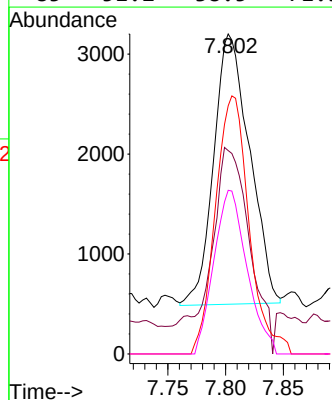
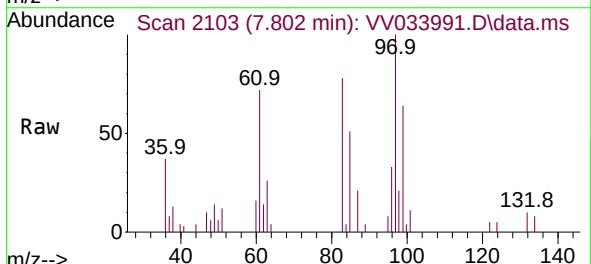
Instrument :
MSVOA_V
ClientSampleId :

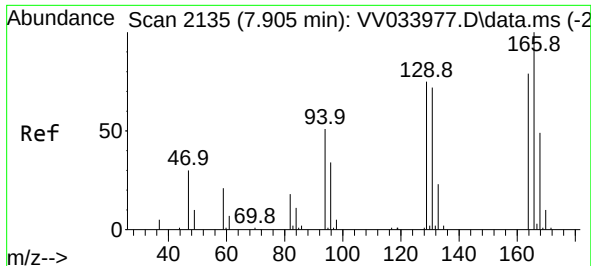
Tgt Ion: 75 Resp: 609
Ion Ratio Lower Upper
75 100
77 36.3 22.2 41.2



#45
1,1,2-Trichloroethane
Concen: 1.765 ug/L
RT: 7.802 min Scan# 2103
Delta R.T. 0.032 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

Tgt Ion: 97 Resp: 5846
Ion Ratio Lower Upper
97 100
99 63.6 45.6 84.6
83 77.5 62.3 115.7
85 51.2 38.5 71.5





#47

Tetrachloroethene

Concen: 7.120 ug/L

RT: 7.937 min Scan# 2145

Delta R.T. 0.032 min

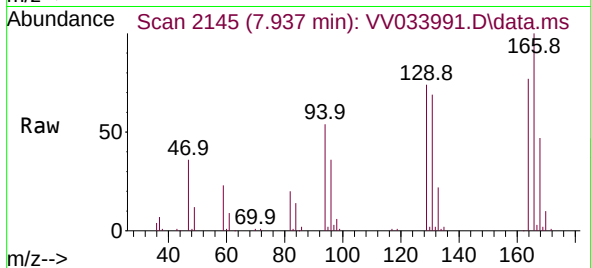
Lab File: VV033991.D

Acq: 05 Feb 2024 16:26

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 37068

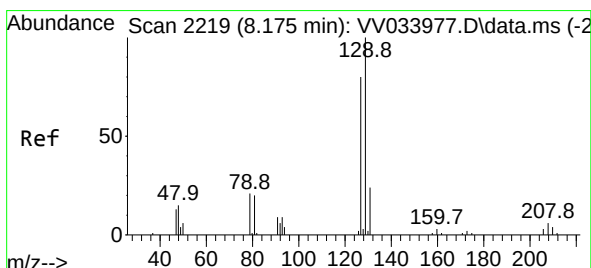
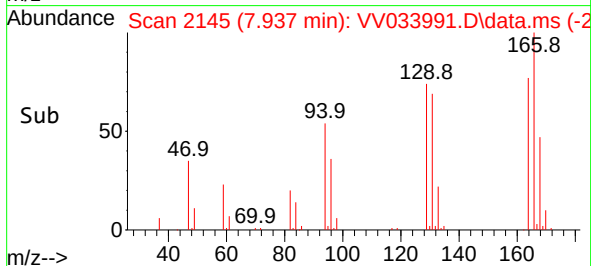
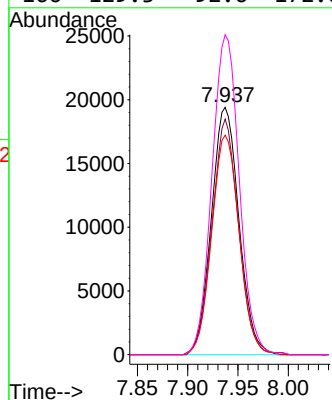
Ion Ratio Lower Upper

164 100

129 95.2 67.8 125.8

131 88.7 63.0 117.0

166 129.3 92.6 172.0



#49

Dibromochloromethane

Concen: 8.635 ug/L

RT: 7.937 min Scan# 2145

Delta R.T. -0.238 min

Lab File: VV033991.D

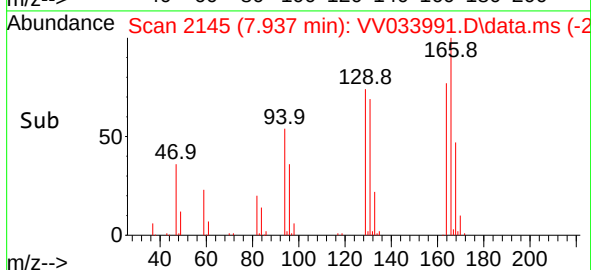
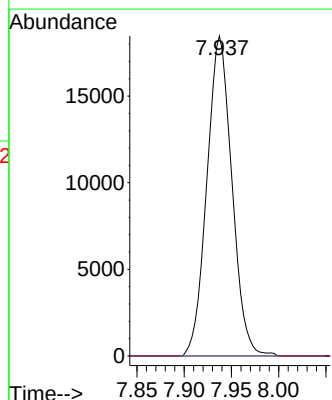
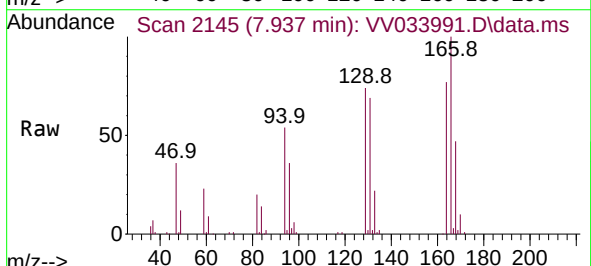
Acq: 05 Feb 2024 16:26

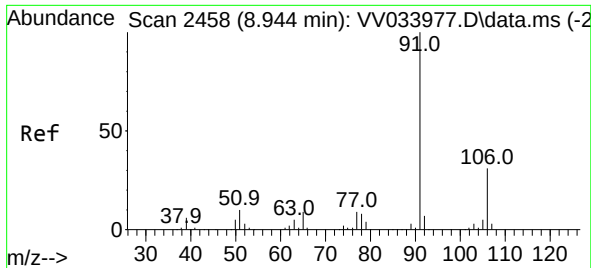
Tgt Ion:129 Resp: 33981

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.5#





#52

Ethylbenzene

Concen: 0.130 ug/L

RT: 8.973 min Scan# 2458

Delta R.T. 0.029 min

Lab File: VV033991.D

Acq: 05 Feb 2024 16:26

Instrument :

MSVOA_V

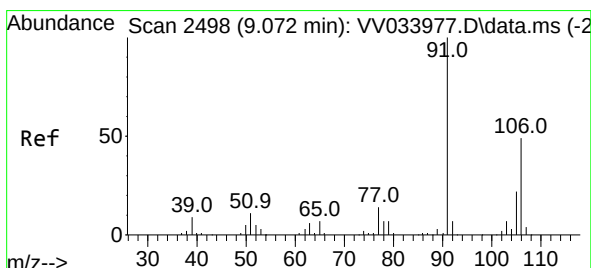
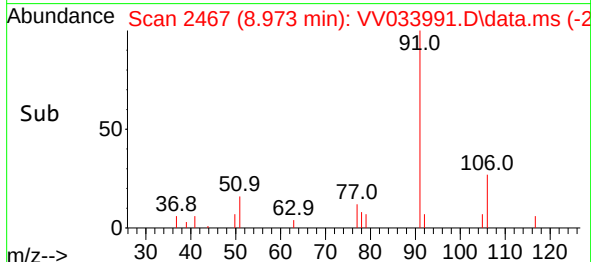
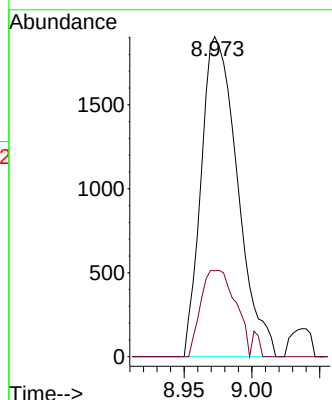
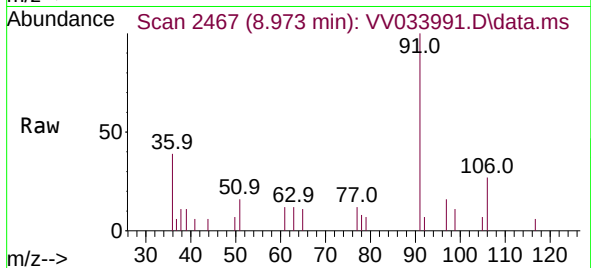
ClientSampleId :

Tgt Ion: 91 Resp: 3552

Ion Ratio Lower Upper

91 100

106 26.9 21.4 39.8



#53

m,p-Xylene

Concen: 0.283 ug/L

RT: 9.098 min Scan# 2506

Delta R.T. 0.026 min

Lab File: VV033991.D

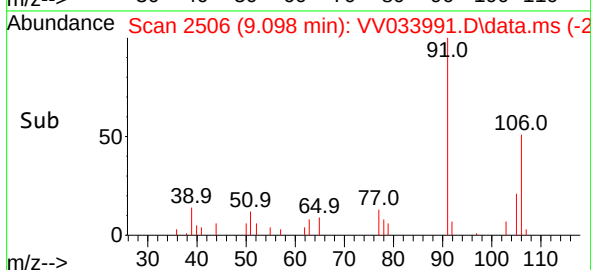
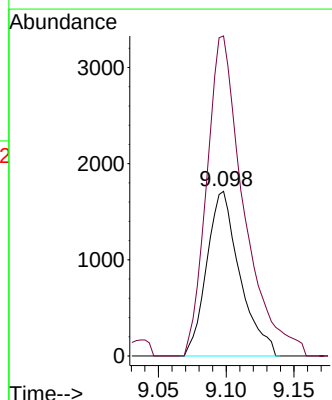
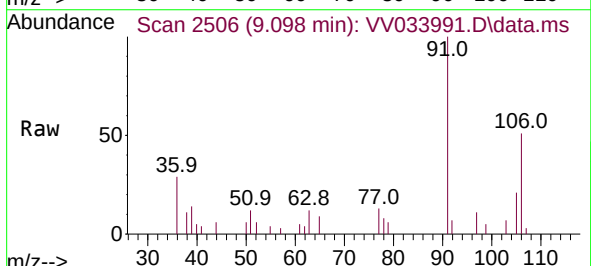
Acq: 05 Feb 2024 16:26

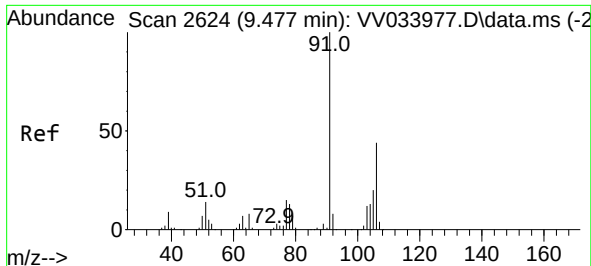
Tgt Ion: 106 Resp: 2910

Ion Ratio Lower Upper

106 100

91 194.3 147.5 273.9

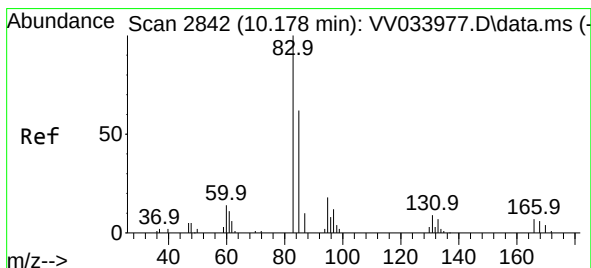
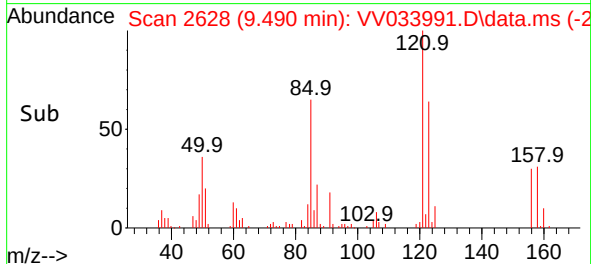
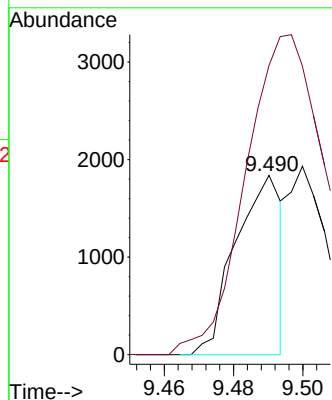
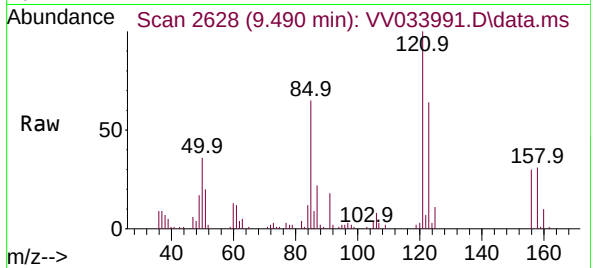




#54
o-Xylene
Concen: 0.171 ug/L
RT: 9.490 min Scan# 21
Delta R.T. 0.013 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

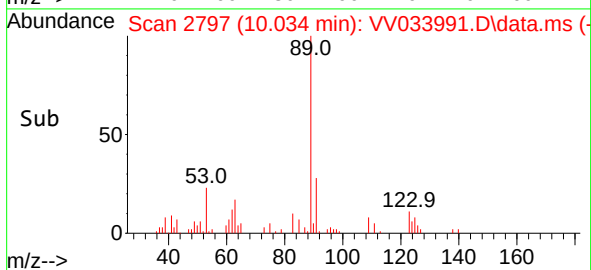
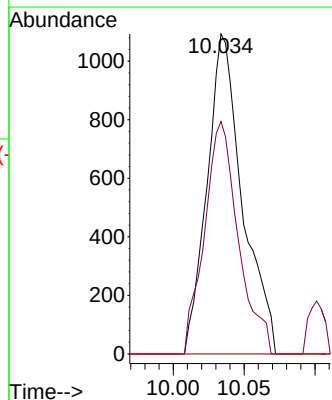
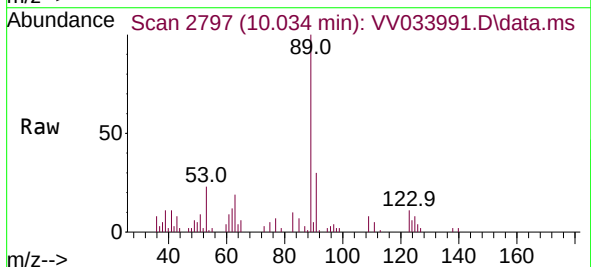
Instrument :
MSVOA_V
ClientSampleId :

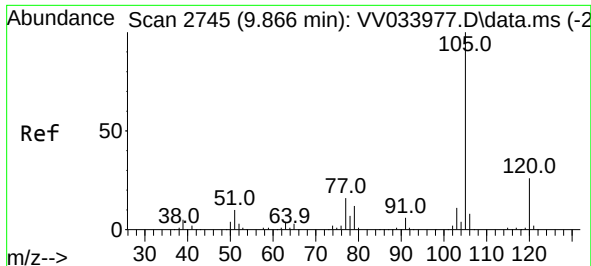
Tgt Ion:106 Resp: 1696
Ion Ratio Lower Upper
106 100
91 161.2 156.2 290.0



#57
1,1,2,2-Tetrachloroethane
Concen: 0.542 ug/L
RT: 10.034 min Scan# 2797
Delta R.T. -0.145 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

Tgt Ion: 83 Resp: 1893
Ion Ratio Lower Upper
83 100
85 72.6 46.5 86.3
131 0.0 8.4 12.6#

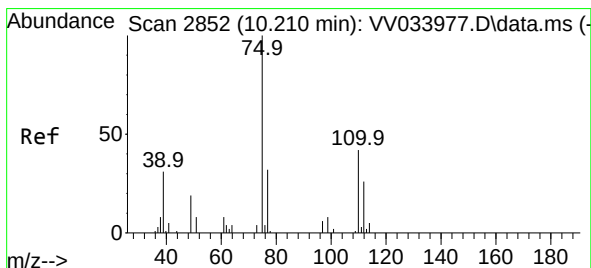
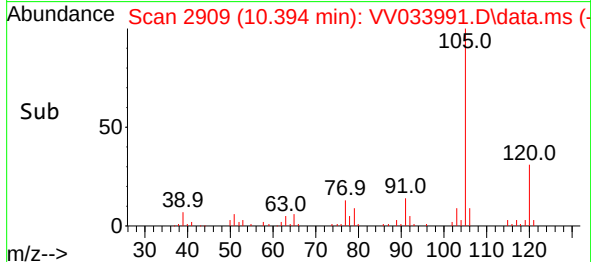
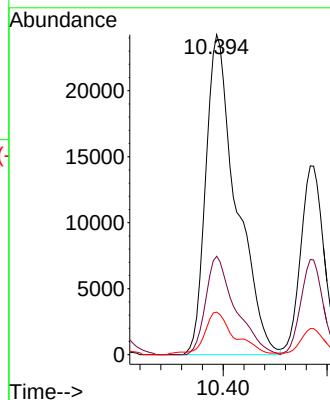
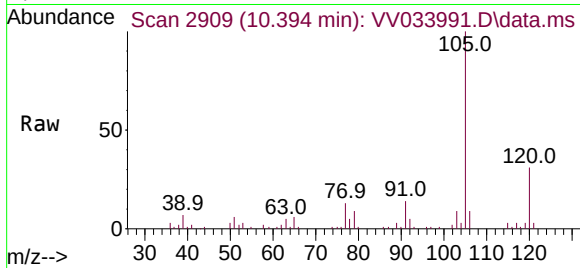




#60
Isopropylbenzene
Concen: 1.597 ug/L
RT: 10.394 min Scan# 2909
Delta R.T. 0.527 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

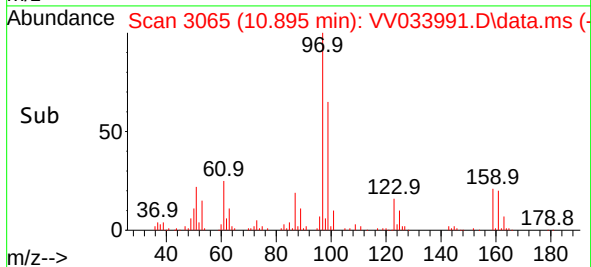
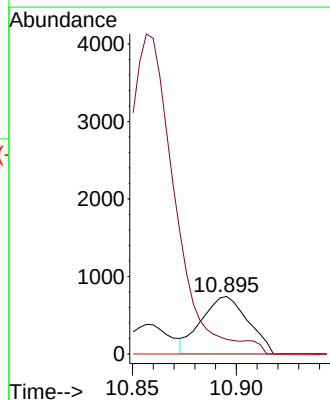
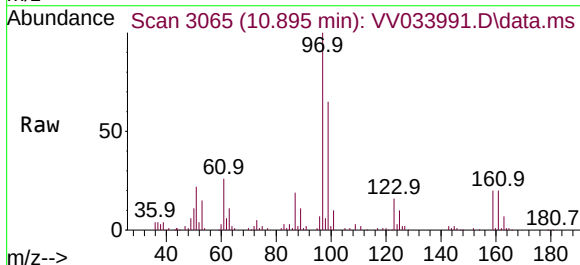
Instrument :
MSVOA_V
ClientSampleId :

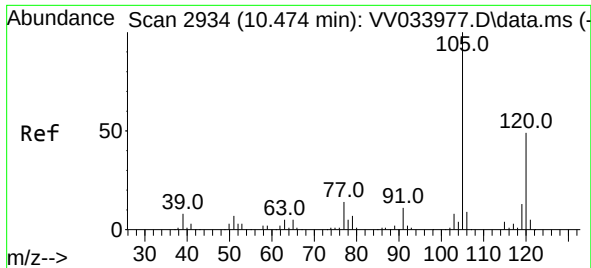
Tgt Ion:105 Resp: 49448
Ion Ratio Lower Upper
105 100
120 29.9 20.7 31.1
77 13.3 13.0 19.6



#61
1,2,3-Trichloropropane
Concen: 0.401 ug/L
RT: 10.895 min Scan# 3065
Delta R.T. 0.685 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

Tgt Ion: 75 Resp: 1154
Ion Ratio Lower Upper
75 100
77 601.0 26.9 40.3#
110 0.0 33.3 49.9#

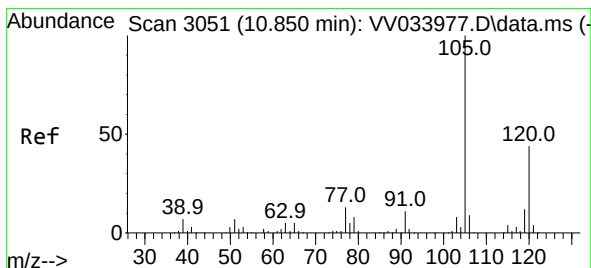
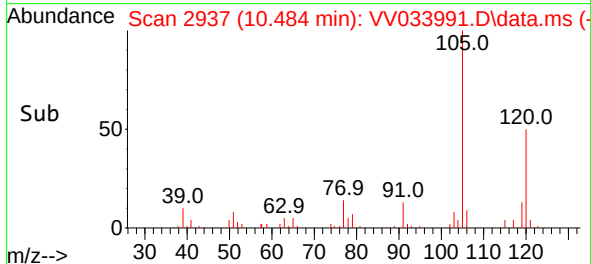
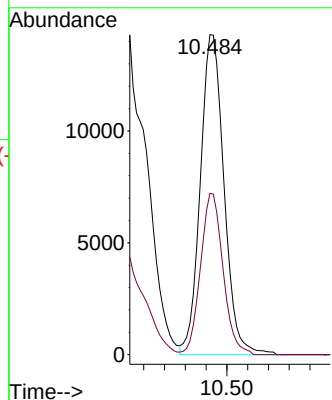
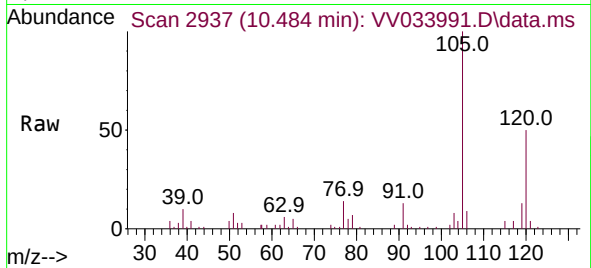




#62
1,3,5-Trimethylbenzene
Concen: 0.866 ug/L
RT: 10.484 min Scan# 2937
Delta R.T. 0.010 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:105 Resp: 22658
Ion Ratio Lower Upper
105 100
120 47.9 38.2 57.4



#63
1,2,4-Trimethylbenzene
Concen: 1.809 ug/L
RT: 10.860 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VV033991.D
Acq: 05 Feb 2024 16:26

Tgt Ion:105 Resp: 46014
Ion Ratio Lower Upper
105 100
120 43.8 36.2 54.2

