

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101723\
 Data File : VW032452.D
 Acq On : 17 Oct 2023 17:54
 Operator : SY/MD
 Sample : 04903-11
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 18 06:06:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Oct 18 06:02:40 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	130445	5.000	ug/L	# 0.00
28) Chlorobenzene-d5	8.799	117	141152	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.197	152	74392	5.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	32838	3.095	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	62.000%
7) Chloroethane-d5	1.529	69	36509	4.239	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.800%
11) 1,1-Dichloroethene-d2	2.060	65	15179	3.393	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.800%
20) 2-Butanone-d5	3.799	46	125720	46.846	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.700%
24) Chloroform-d	4.256	84	79127	4.228	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.600%
26) 1,2-Dichloroethane-d4	4.947	65	45201	5.099	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.000%
32) Benzene-d6	4.966	84	136409	3.284	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	65.600%#
36) 1,2-Dichloropropane-d6	5.998	67	46243	3.360	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	67.200%
41) Toluene-d8	7.265	98	135168	3.559	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.200%
43) trans-1,3-Dichloroprop...	7.564	79	15232	3.124	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	62.400%
46) 2-Hexanone-d5	8.030	63	124929	54.451	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.900%
56) 1,1,2,2-Tetrachloroeth...	10.169	84	42777	4.444	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.800%
66) 1,2-Dichlorobenzene-d4	11.570	152	55550	4.024	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	80.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.188	50	2846	0.194	ug/L #	80
8) Chloroethane	1.535	64	4301	0.511	ug/L #	62
13) Acetone	2.082	43	433142	209.403	ug/L	51
14) Carbon disulfide	2.246	76	18842	0.563	ug/L	100
15) Methyl Acetate	2.471	43	7763730	1667.262	ug/L #	53
16) Methylene chloride	2.391	84	110048	8.823	ug/L #	2
19) 1,1-Dichloroethane	3.079	63	9127	0.443	ug/L #	1
21) 2-Butanone	3.757	43	53308	16.480	ug/L #	53
25) Chloroform	4.314	83	58893	2.912	ug/L	87
27) 1,2-Dichloroethane	5.011	62	10028	0.839	ug/L #	21
30) Cyclohexane	4.590	56	5100804	241.869	ug/L	97
33) Benzene	5.011	78	1319771	26.557	ug/L	100
34) Trichloroethene	5.867	95	12516	0.923	ug/L #	15
35) Methylcyclohexane	6.056	83	1822532	86.810	ug/L	94
37) 1,2-Dichloropropane	6.053	63	20071	1.510	ug/L #	88
38) Bromodichloromethane	6.384	83	6577	0.416	ug/L #	1
40) 4-Methyl-2-pentanone	7.204	43	22947	2.728	ug/L #	50
44) trans-1,3-Dichloropropene	7.358	75	992238	63.833	ug/L #	1
45) 1,1,2-Trichloroethane	7.725	97	88080	9.395	ug/L #	20

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

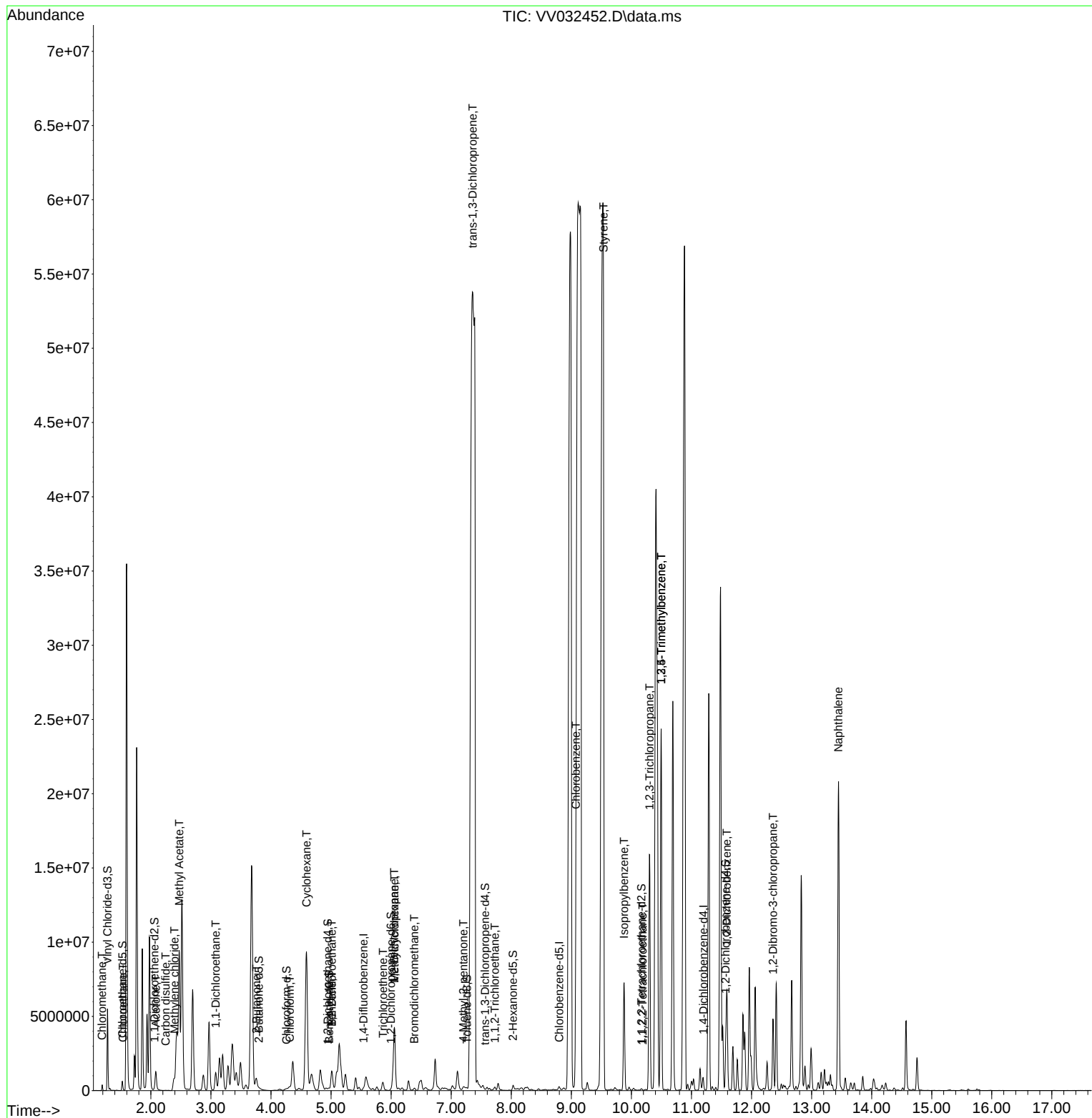
51) Chlorobenzene	9.075	112	58716	1.721	ug/L #	1
55) Styrene	9.535	104	2078897	58.390	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.188	83	2610	0.253	ug/L #	57
60) Isopropylbenzene	9.879	105	4513385	78.065	ug/L	99
61) 1,2,3-Trichloropropane	10.304	75	86113	10.876	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.497	105	12178898	258.459	ug/L	97
63) 1,2,4-Trimethylbenzene	10.497	105	12178898	259.608	ug/L	90
67) 1,2-Dichlorobenzene	11.590	146	2411	0.096	ug/L #	76
68) 1,2-Dibromo-3-chloropr...	12.358	75	20208	12.491	ug/L #	1
71) Naphthalene	13.445	128	14868329	487.843	ug/L	94

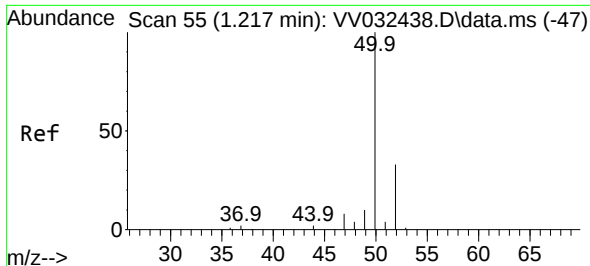
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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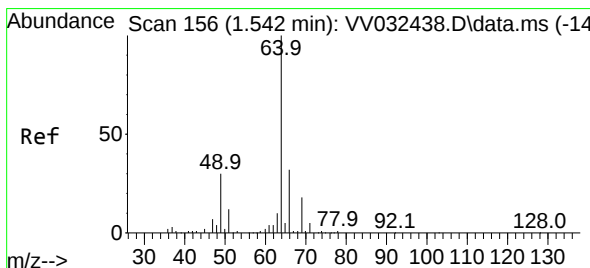
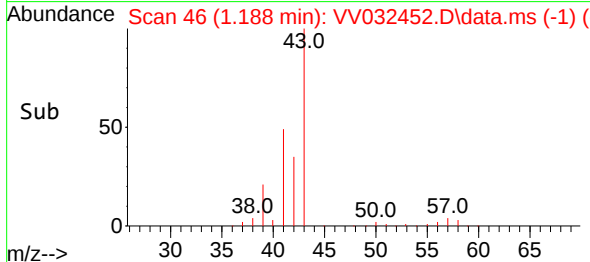
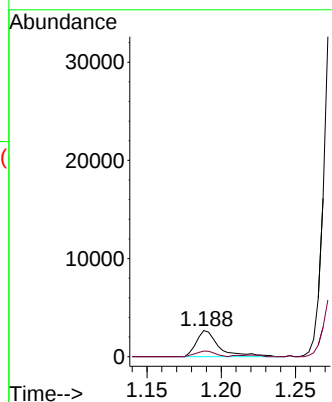
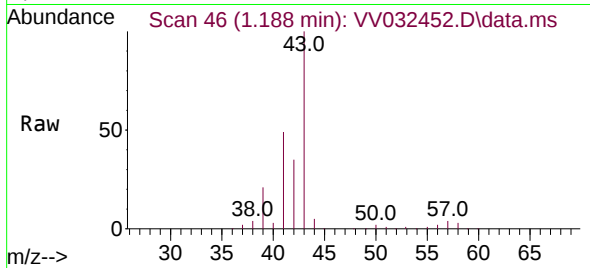




#3
Chloromethane
Concen: 0.194 ug/L
RT: 1.188 min Scan# 41
Delta R.T. -0.029 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

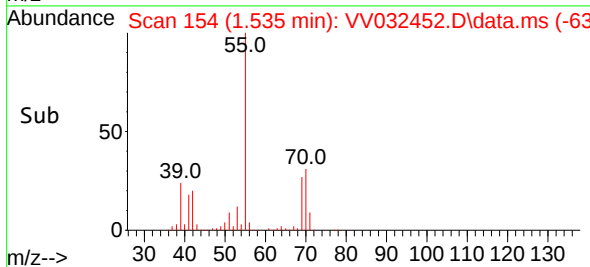
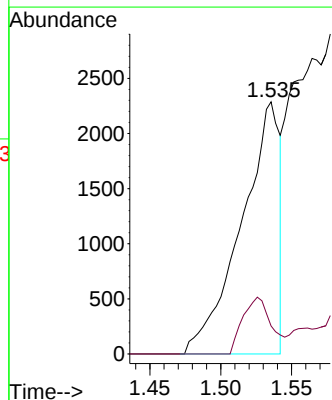
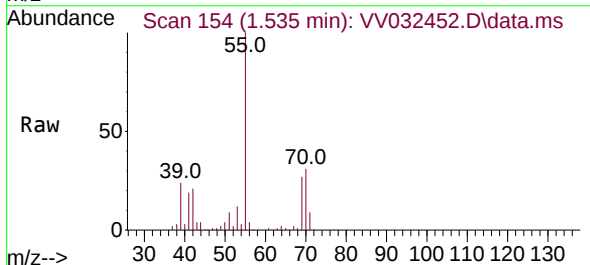
Instrument :
MSVOA_V
ClientSampleId :

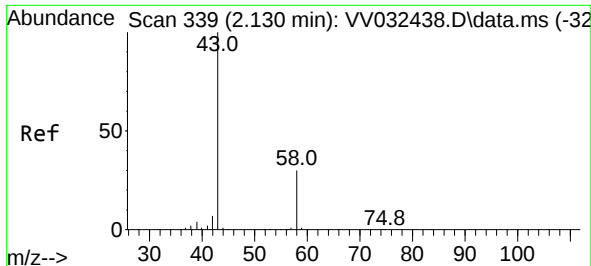
Tgt Ion: 50 Resp: 2846
Ion Ratio Lower Upper
50 100
52 21.5 23.0 42.6#



#8
Chloroethane
Concen: 0.511 ug/L
RT: 1.535 min Scan# 154
Delta R.T. -0.006 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

Tgt Ion: 64 Resp: 4301
Ion Ratio Lower Upper
64 100
66 11.1 22.6 42.0#





#13

Acetone

Concen: 209.403 ug/L

RT: 2.082 min Scan# 31

Delta R.T. -0.048 min

Lab File: VV032452.D

Acq: 17 Oct 2023 17:54

Instrument :

MSVOA_V

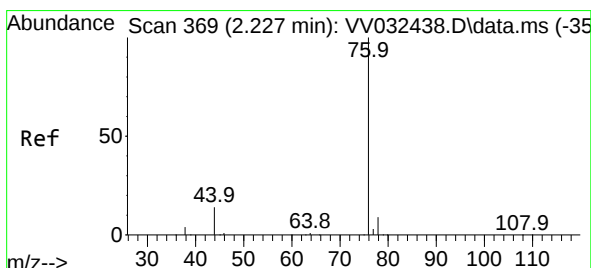
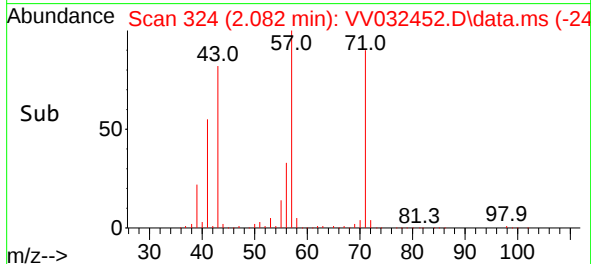
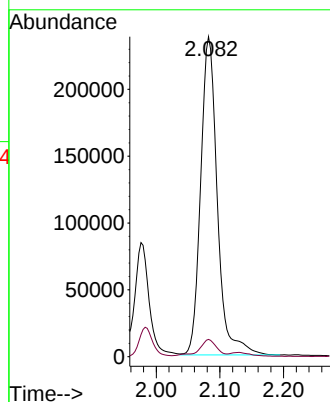
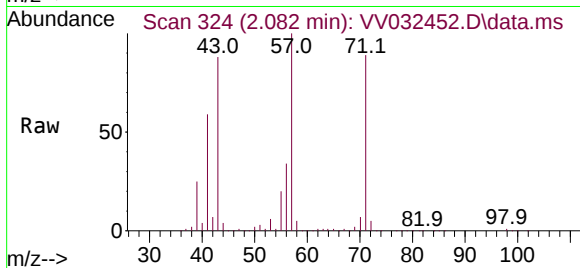
ClientSampleId :

Tgt Ion: 43 Resp: 433142

Ion Ratio Lower Upper

43 100

58 5.5 0.0 66.0



#14

Carbon disulfide

Concen: 0.563 ug/L

RT: 2.246 min Scan# 375

Delta R.T. 0.019 min

Lab File: VV032452.D

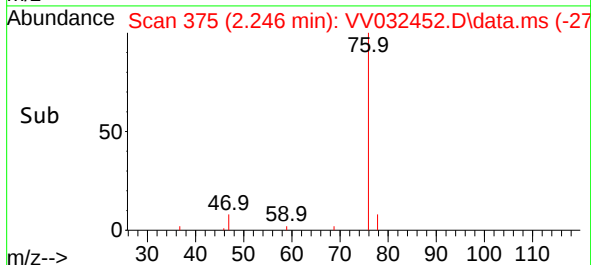
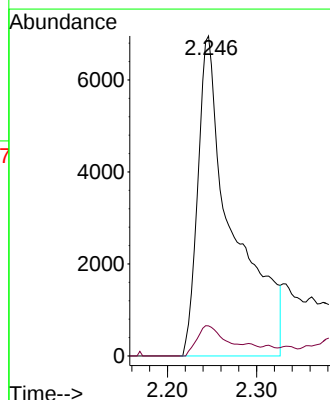
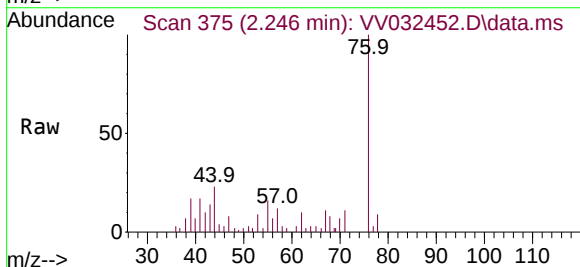
Acq: 17 Oct 2023 17:54

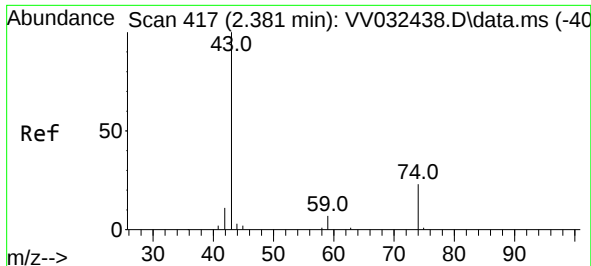
Tgt Ion: 76 Resp: 18842

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.2

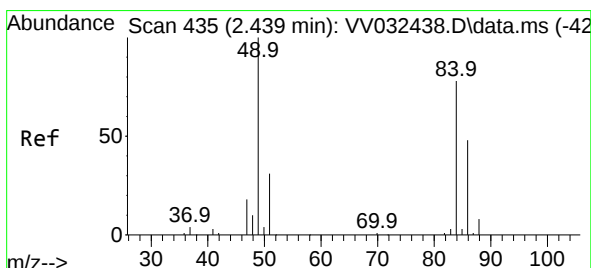
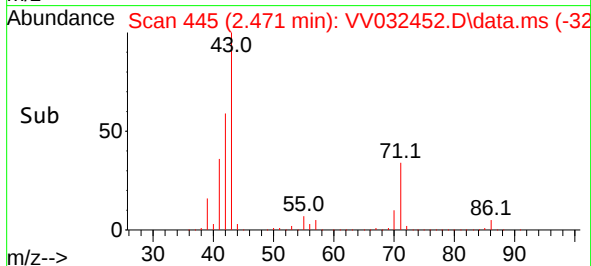
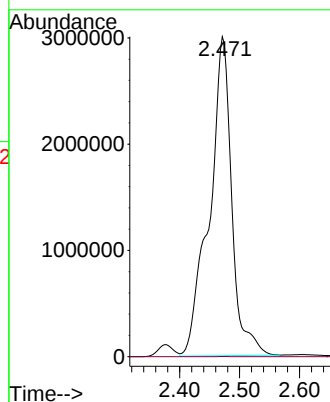
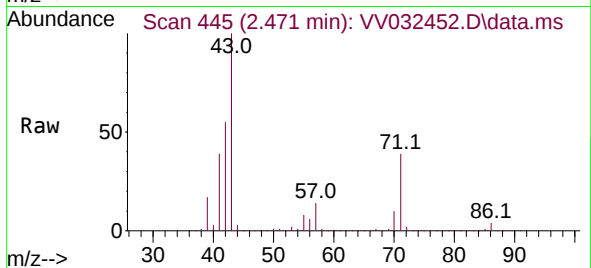




#15
Methyl Acetate
Concen: 1667.262 ug/L
RT: 2.471 min Scan# 445
Delta R.T. 0.090 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

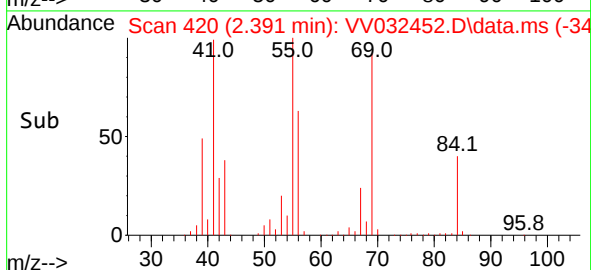
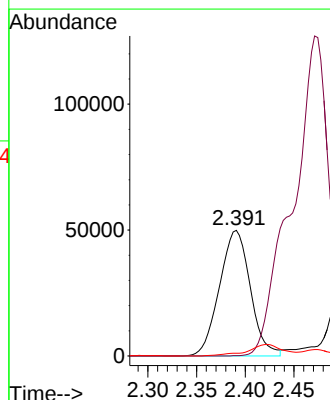
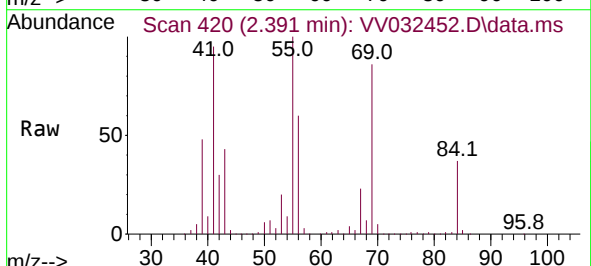
Instrument :
MSVOA_V
ClientSampleId :

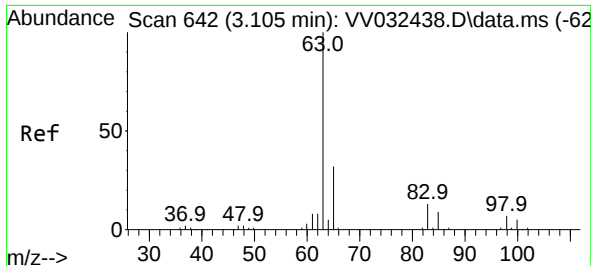
Tgt Ion: 43 Resp: 7763730
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#16
Methylene chloride
Concen: 8.823 ug/L
RT: 2.391 min Scan# 420
Delta R.T. -0.048 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

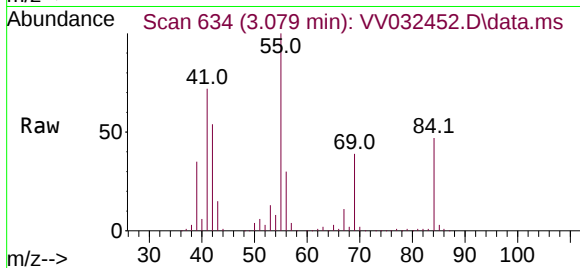
Tgt Ion: 84 Resp: 110048
Ion Ratio Lower Upper
84 100
86 0.3 43.2 80.2#
49 2.2 86.3 160.3#



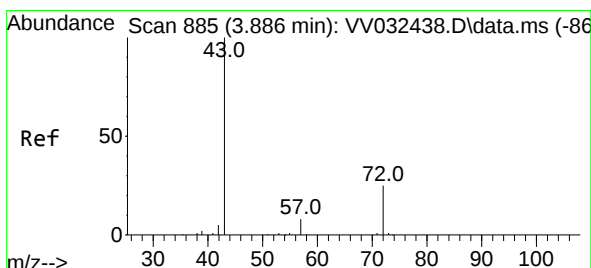
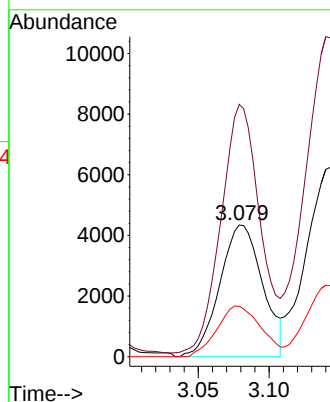
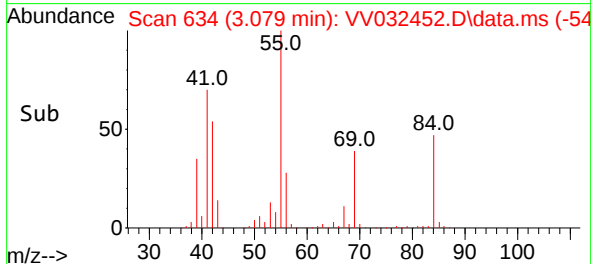


#19
1,1-Dichloroethane
Concen: 0.443 ug/L
RT: 3.079 min Scan# 61
Delta R.T. -0.026 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

Instrument :
MSVOA_V
ClientSampleId :

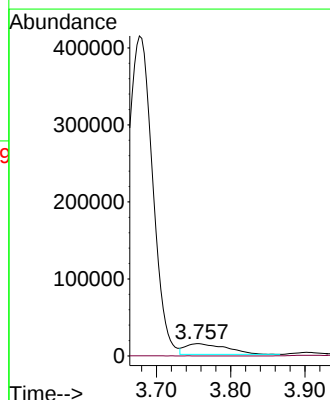
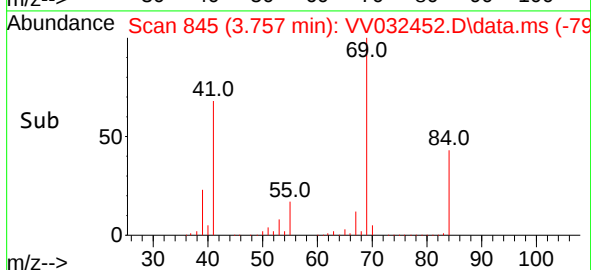
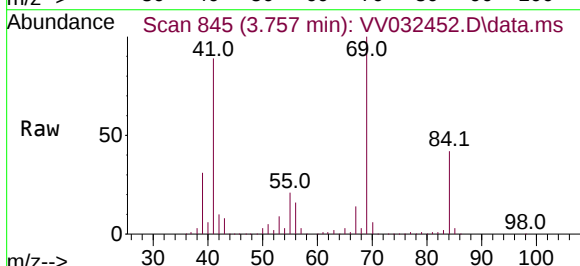


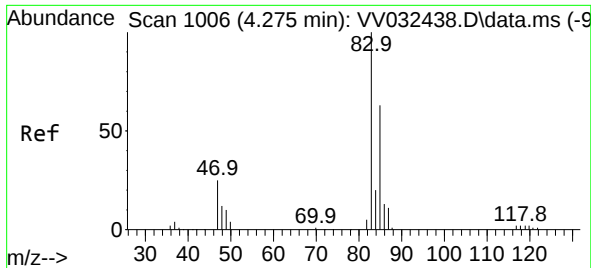
Tgt Ion: 63 Resp: 9127
Ion Ratio Lower Upper
63 100
65 191.7 22.3 41.5#
83 38.2 9.0 16.6#



#21
2-Butanone
Concen: 16.480 ug/L
RT: 3.757 min Scan# 845
Delta R.T. -0.129 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

Tgt Ion: 43 Resp: 53308
Ion Ratio Lower Upper
43 100
72 0.2 11.6 34.8#

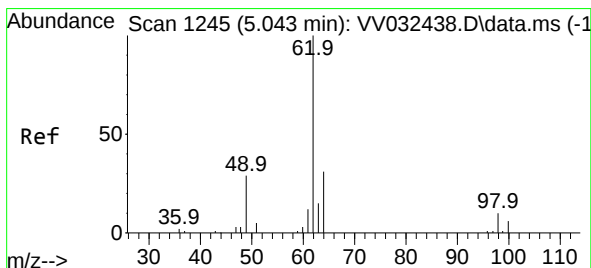
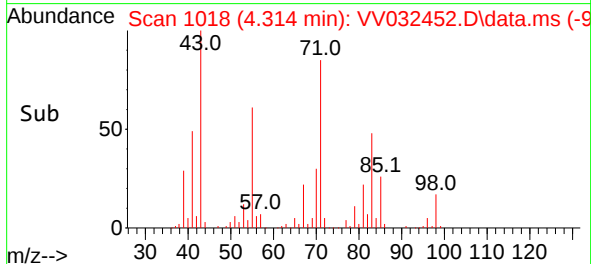
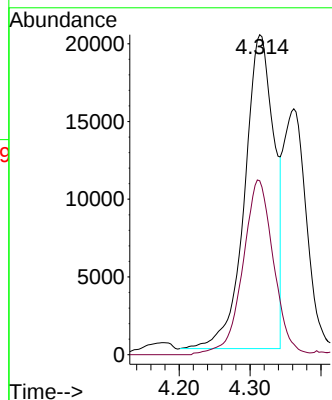
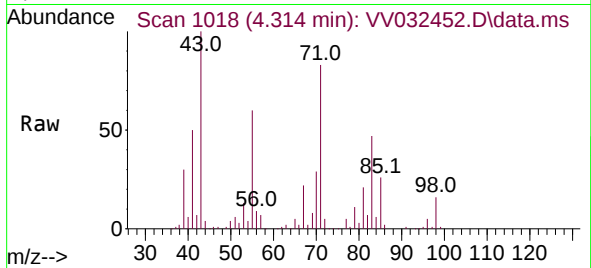




#25
Chloroform
Concen: 2.912 ug/L
RT: 4.314 min Scan# 1018
Delta R.T. 0.039 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

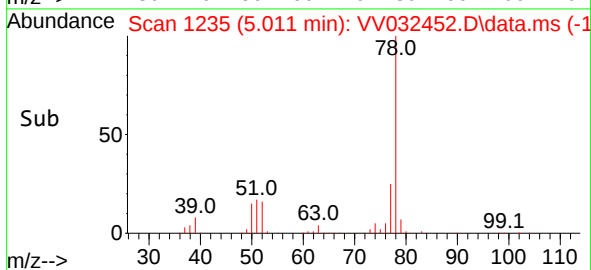
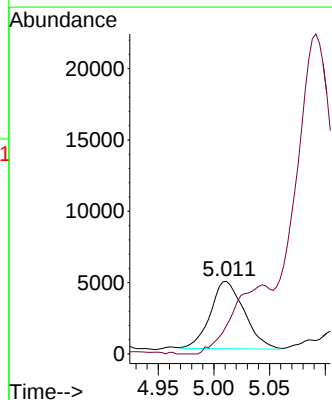
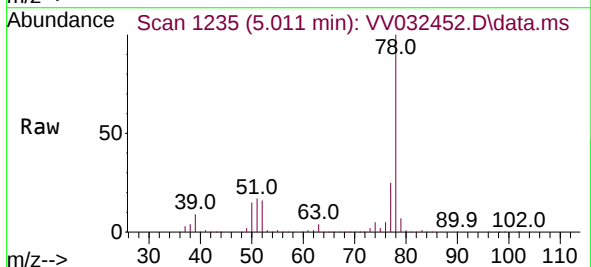
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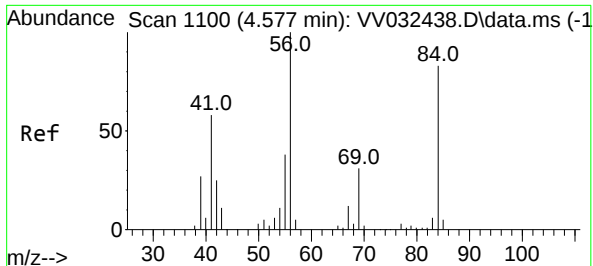
Tgt Ion: 83 Resp: 58893
Ion Ratio Lower Upper
83 100
85 54.3 45.4 84.4



#27
1,2-Dichloroethane
Concen: 0.839 ug/L
RT: 5.011 min Scan# 1235
Delta R.T. -0.032 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

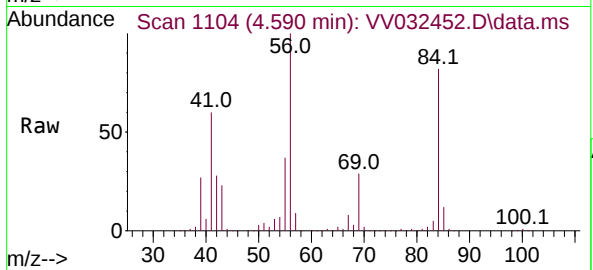
Tgt Ion: 62 Resp: 10028
Ion Ratio Lower Upper
62 100
98 39.0 7.8 11.8#





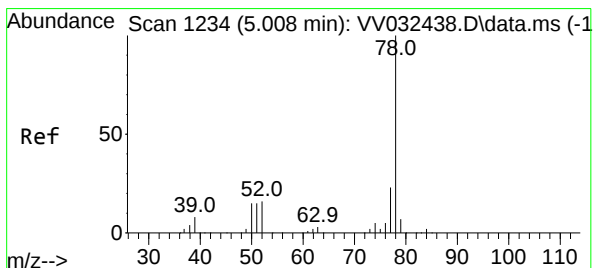
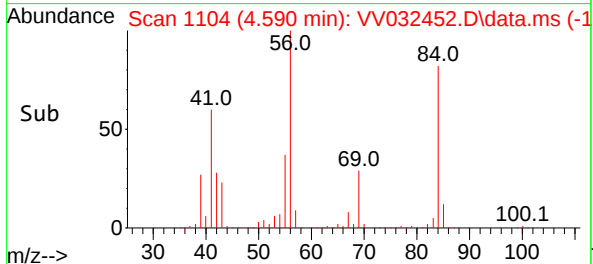
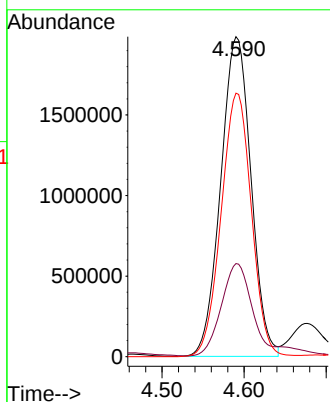
#30
Cyclohexane
Concen: 241.869 ug/L
RT: 4.590 min Scan# 1104
Delta R.T. 0.013 min
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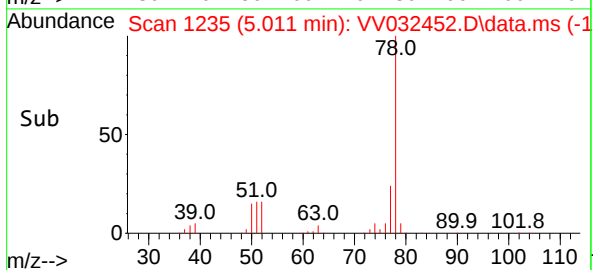
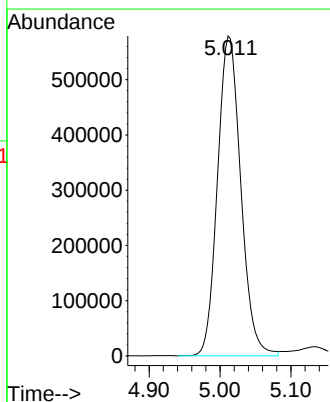
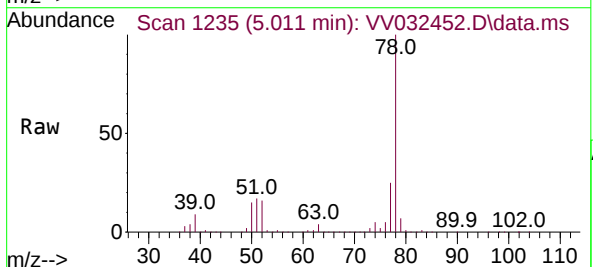
Tgt Ion: 56 Resp: 5100804

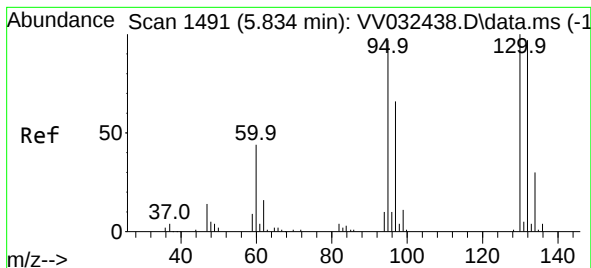
Ion	Ratio	Lower	Upper
56	100		
69	32.6	24.2	36.2
84	82.3	68.1	102.1



#33
Benzene
Concen: 26.557 ug/L
RT: 5.011 min Scan# 1235
Delta R.T. 0.003 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

Tgt Ion: 78 Resp: 1319771





#34

Trichloroethene

Concen: 0.923 ug/L

RT: 5.867 min Scan# 1

Delta R.T. 0.032 min

Lab File: VV032452.D

Acq: 17 Oct 2023 17:54

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 12516

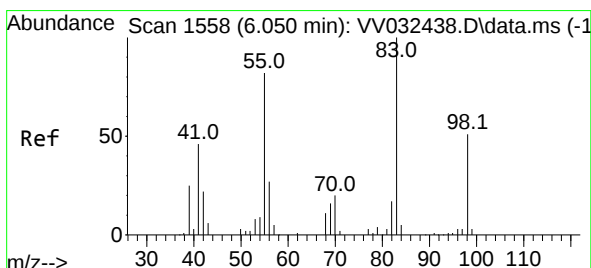
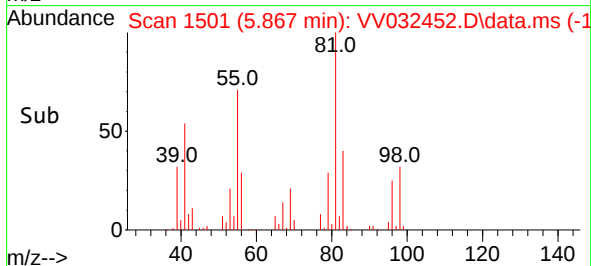
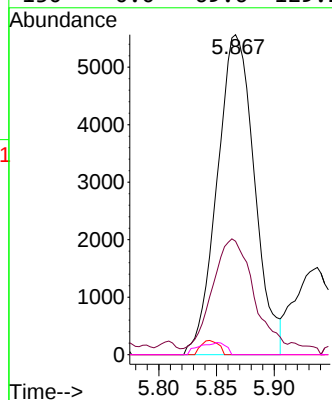
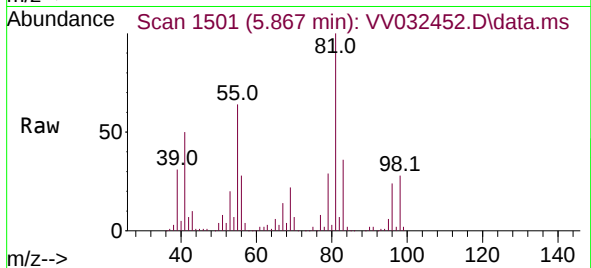
Ion Ratio Lower Upper

95 100

97 35.5 45.7 84.9#

132 0.0 70.3 130.5#

130 0.0 69.6 129.2#



#35

Methylcyclohexane

Concen: 86.810 ug/L

RT: 6.056 min Scan# 1560

Delta R.T. 0.006 min

Lab File: VV032452.D

Acq: 17 Oct 2023 17:54

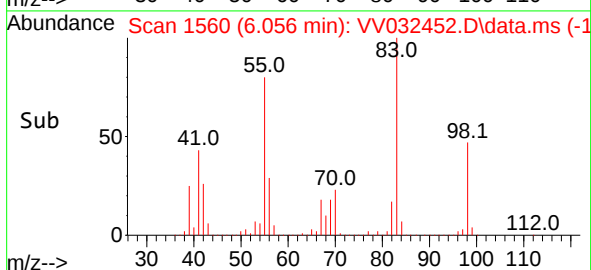
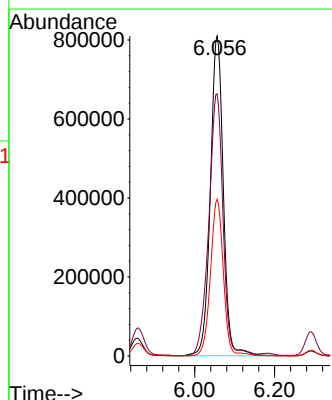
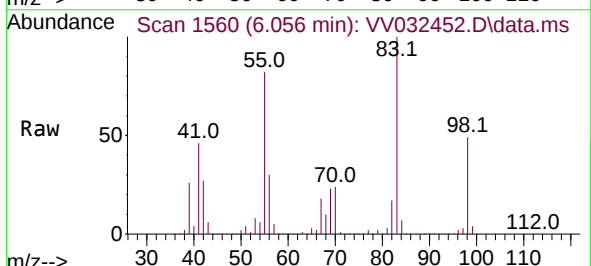
Tgt Ion: 83 Resp: 1822532

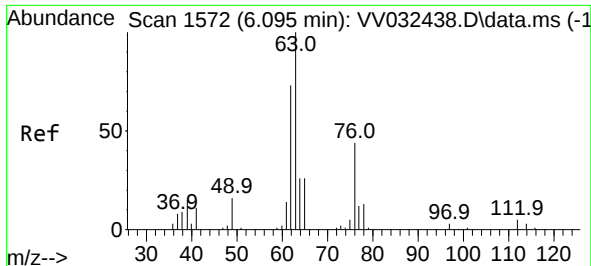
Ion Ratio Lower Upper

83 100

55 88.9 64.2 96.2

98 48.9 39.6 59.4





#37

1,2-Dichloropropane

Concen: 1.510 ug/L

RT: 6.053 min Scan# 11

Delta R.T. -0.042 min

Lab File: VV032452.D

Acq: 17 Oct 2023 17:54

Instrument :

MSVOA_V

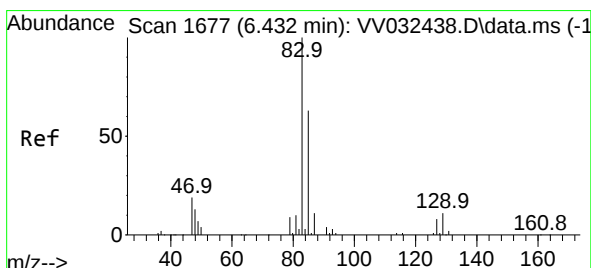
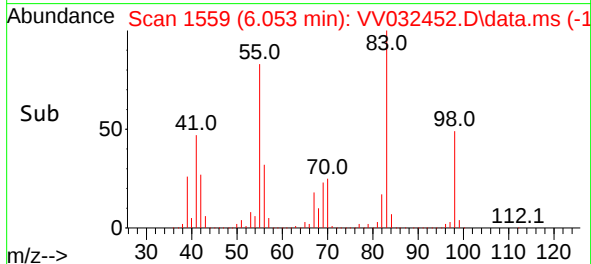
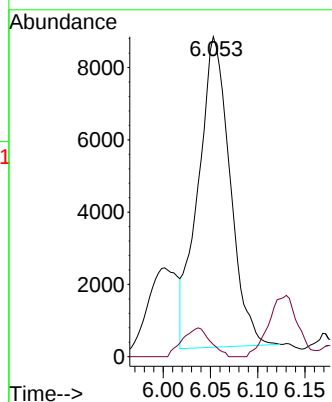
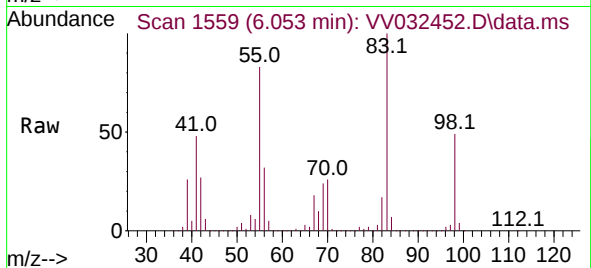
ClientSampleId :

Tgt Ion: 63 Resp: 20071

Ion Ratio Lower Upper

63 100

112 8.1 3.4 5.2#



#38

Bromodichloromethane

Concen: 0.416 ug/L

RT: 6.384 min Scan# 1662

Delta R.T. -0.048 min

Lab File: VV032452.D

Acq: 17 Oct 2023 17:54

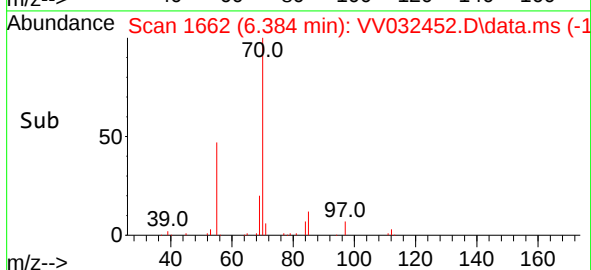
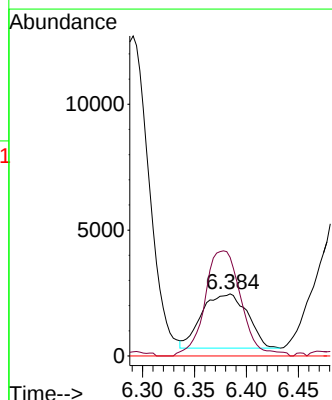
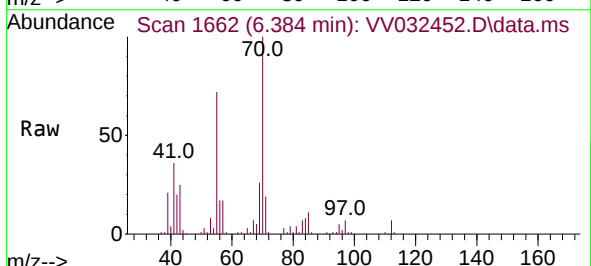
Tgt Ion: 83 Resp: 6577

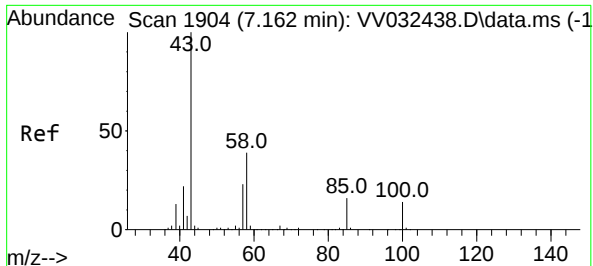
Ion Ratio Lower Upper

83 100

85 158.9 44.9 83.3#

127 0.0 6.9 10.3#





#40

4-Methyl-2-pentanone

Concen: 2.728 ug/L

RT: 7.204 min Scan# 1904

Delta R.T. 0.042 min

Lab File: VV032452.D

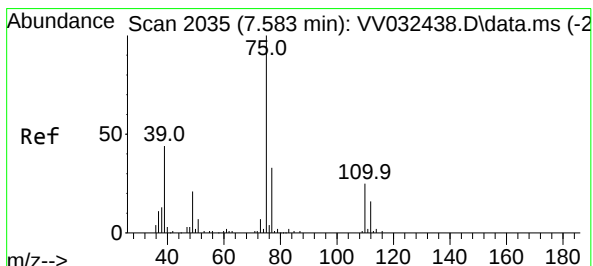
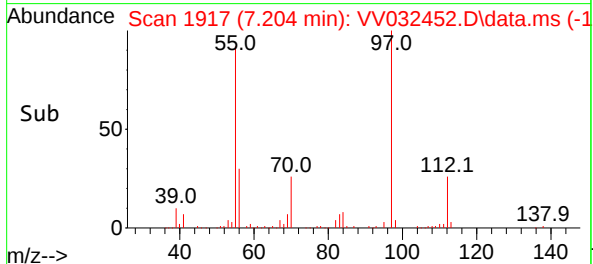
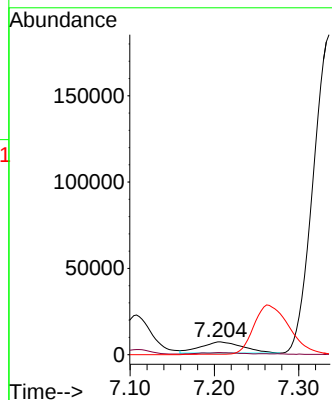
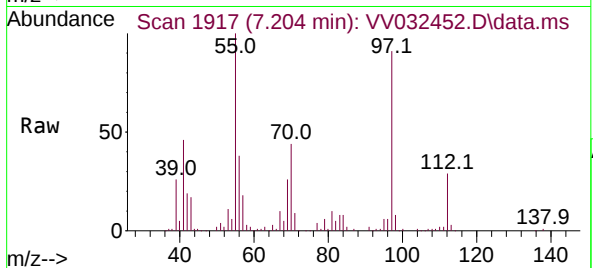
Acq: 17 Oct 2023 17:54

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	43	Resp:	22947
Ion Ratio	Lower	Upper	
43	100		
58	6.0	31.9	47.9#
100	0.0	11.3	16.9#



#44

trans-1,3-Dichloropropene

Concen: 63.833 ug/L

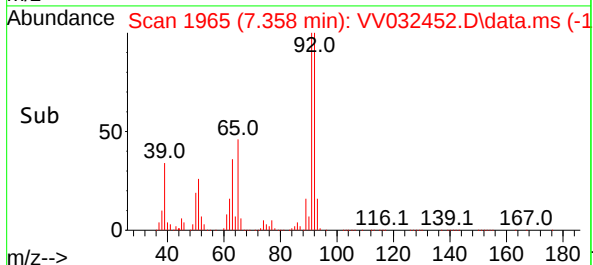
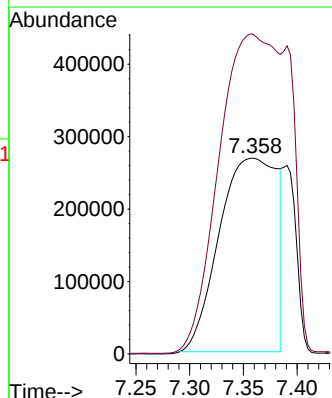
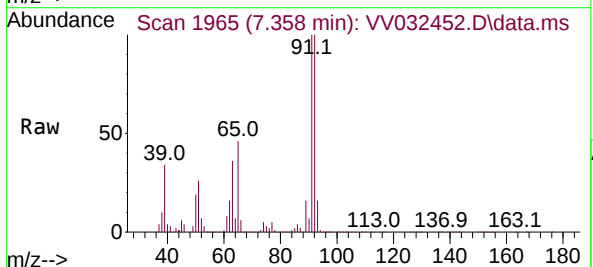
RT: 7.358 min Scan# 1965

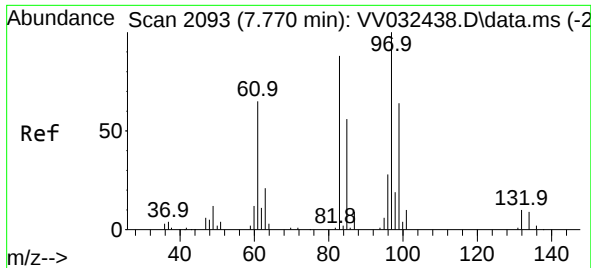
Delta R.T. -0.225 min

Lab File: VV032452.D

Acq: 17 Oct 2023 17:54

Tgt Ion:	75	Resp:	992238
Ion Ratio	Lower	Upper	
75	100		
77	163.4	22.5	41.7#

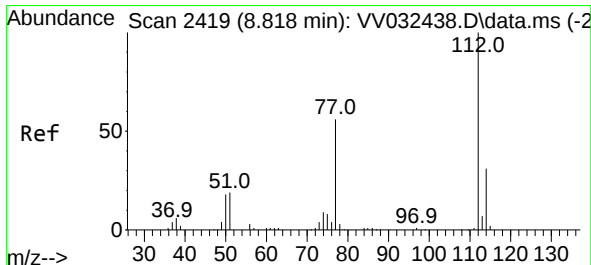
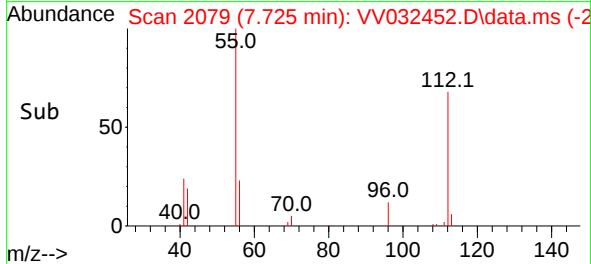
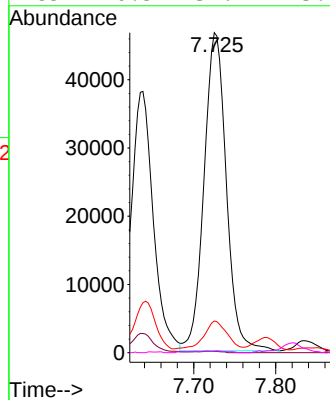
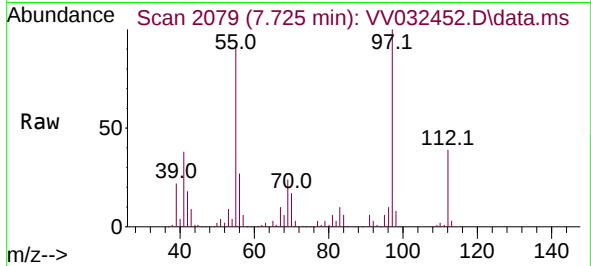




#45
1,1,2-Trichloroethane
Concen: 9.395 ug/L
RT: 7.725 min Scan# 2093
Delta R.T. -0.045 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

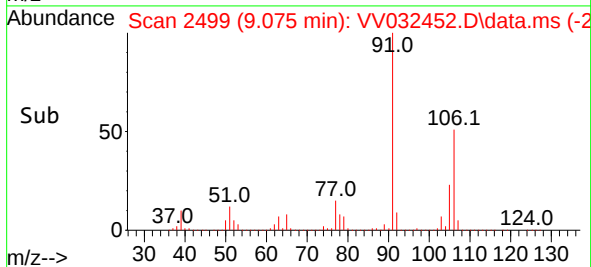
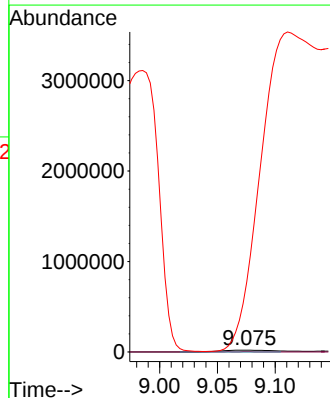
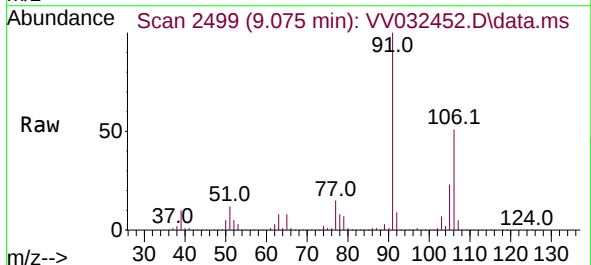
Instrument :
MSVOA_V
ClientSampleId :

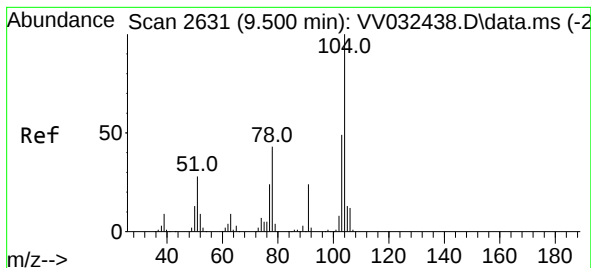
Tgt Ion: 97	Resp: 88080
Ion Ratio	Lower Upper
97 100	
99 0.4	42.8 79.4#
83 9.9	60.9 113.1#
85 0.5	39.4 73.2#



#51
Chlorobenzene
Concen: 1.721 ug/L
RT: 9.075 min Scan# 2499
Delta R.T. 0.257 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

Tgt Ion: 112	Resp: 58716
Ion Ratio	Lower Upper
112 100	
114 5.4	22.1 41.1#
77 4015.6	46.1 69.1#





#55

Styrene

Concen: 58.390 ug/L

RT: 9.535 min Scan# 2

Delta R.T. 0.035 min

Lab File: VV032452.D

Acq: 17 Oct 2023 17:54

Instrument :

MSVOA_V

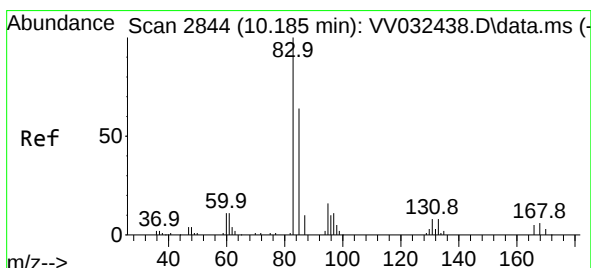
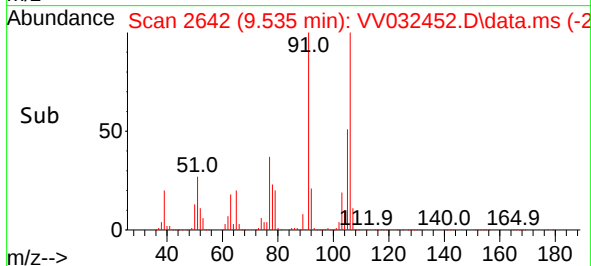
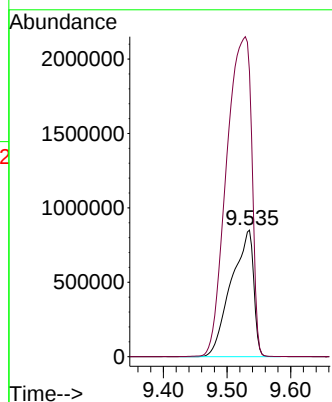
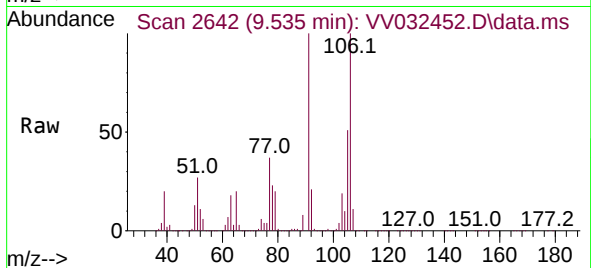
ClientSampleId :

Tgt Ion:104 Resp: 2078897

Ion Ratio Lower Upper

104 100

78 225.4 29.9 55.5#



#57

1,1,2,2-Tetrachloroethane

Concen: 0.253 ug/L

RT: 10.188 min Scan# 2845

Delta R.T. 0.003 min

Lab File: VV032452.D

Acq: 17 Oct 2023 17:54

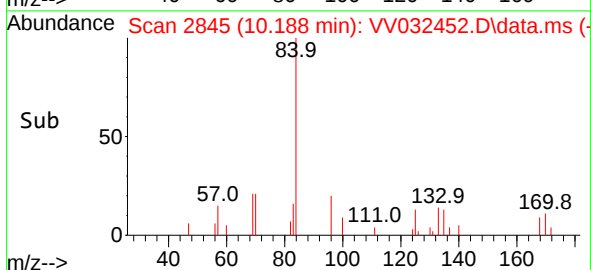
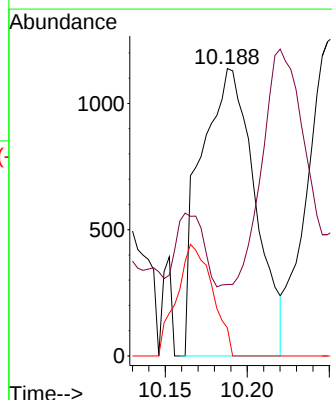
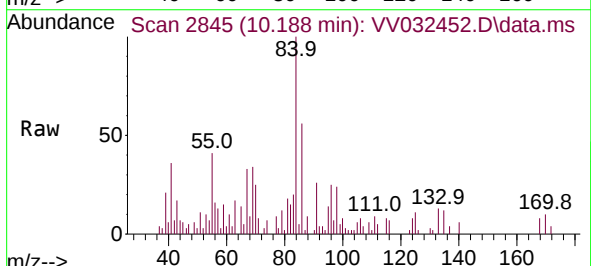
Tgt Ion: 83 Resp: 2610

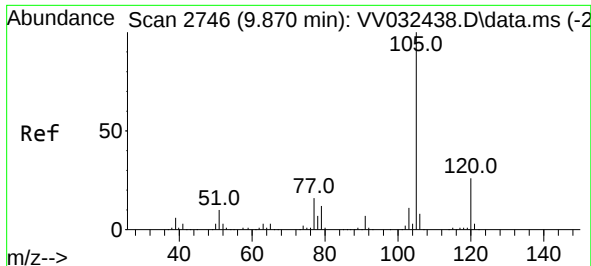
Ion Ratio Lower Upper

83 100

85 24.9 43.6 81.0#

131 9.8 7.0 10.6

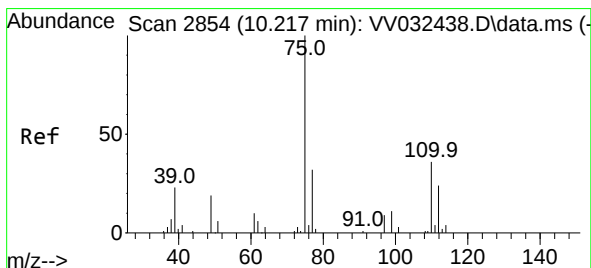
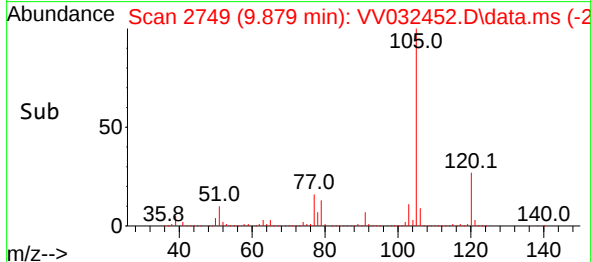
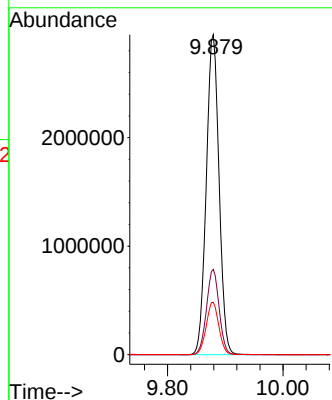
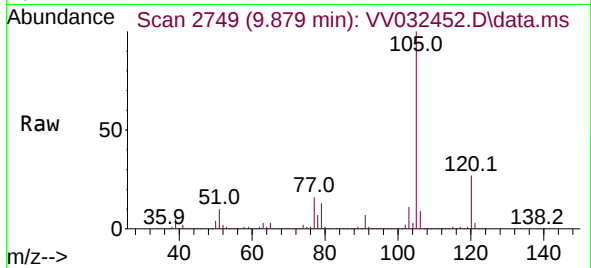




#60
Isopropylbenzene
Concen: 78.065 ug/L
RT: 9.879 min Scan# 21
Delta R.T. 0.010 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

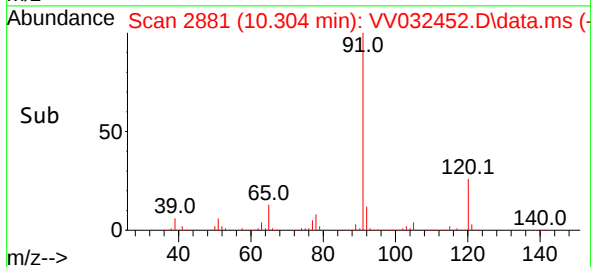
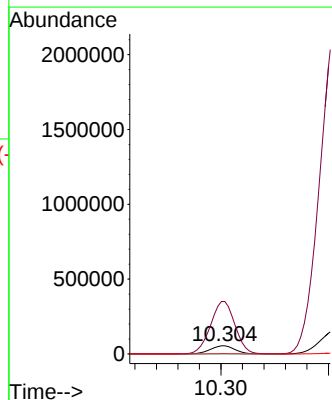
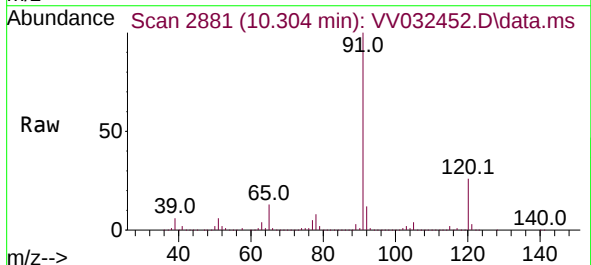
Instrument :
MSVOA_V
ClientSampleId :

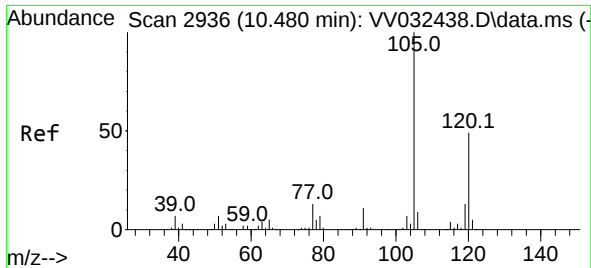
Tgt Ion:105 Resp: 4513385
Ion Ratio Lower Upper
105 100
120 26.5 21.0 31.6
77 16.3 12.6 19.0



#61
1,2,3-Trichloropropane
Concen: 10.876 ug/L
RT: 10.304 min Scan# 2881
Delta R.T. 0.087 min
Lab File: VV032452.D
Acq: 17 Oct 2023 17:54

Tgt Ion: 75 Resp: 86113
Ion Ratio Lower Upper
75 100
77 639.1 26.2 39.2#
110 3.1 30.6 46.0#

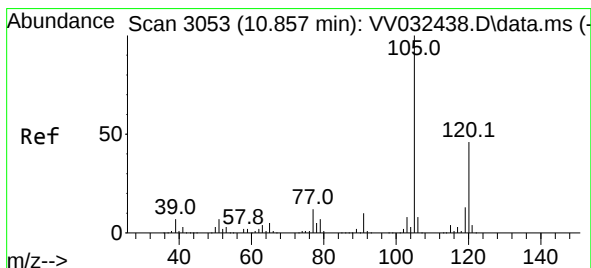
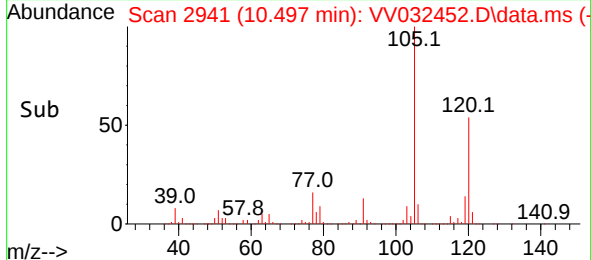
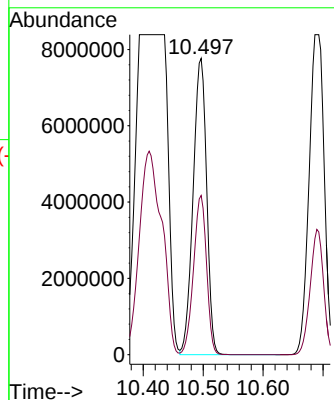
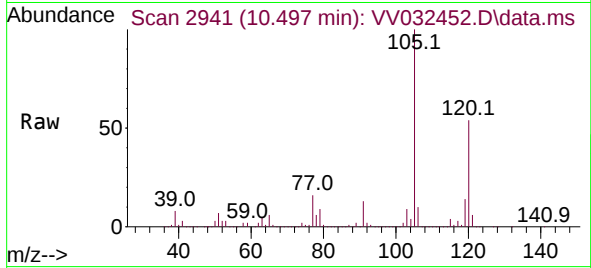




#62
 1,3,5-Trimethylbenzene
 Concen: 258.459 ug/L
 RT: 10.497 min Scan# 2941
 Delta R.T. 0.016 min
 Lab File: VV032452.D
 Acq: 17 Oct 2023 17:54

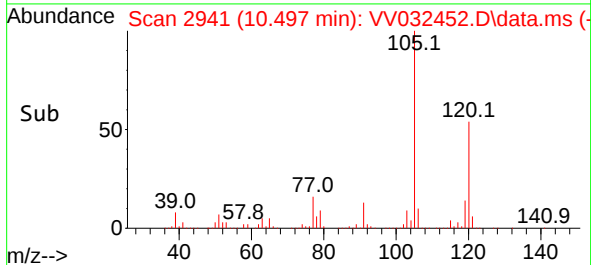
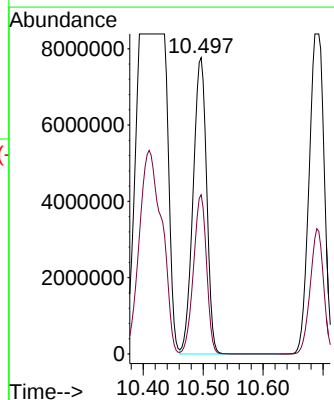
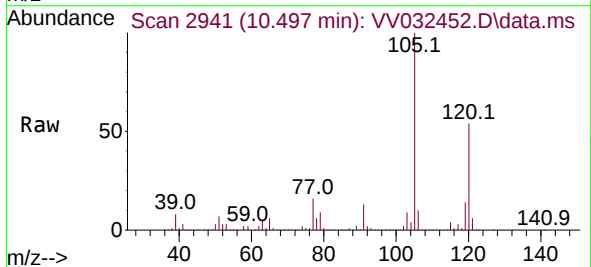
Instrument :
 MSVOA_V
 ClientSampleId :

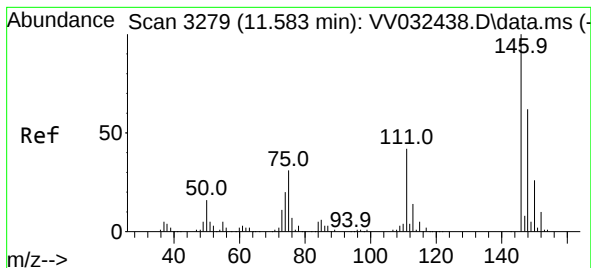
Tgt Ion:105 Resp:12178898
 Ion Ratio Lower Upper
 105 100
 120 51.8 39.9 59.9



#63
 1,2,4-Trimethylbenzene
 Concen: 259.608 ug/L
 RT: 10.497 min Scan# 2941
 Delta R.T. -0.360 min
 Lab File: VV032452.D
 Acq: 17 Oct 2023 17:54

Tgt Ion:105 Resp:12178898
 Ion Ratio Lower Upper
 105 100
 120 51.8 36.2 54.4





#67

1,2-Dichlorobenzene

Concen: 0.096 ug/L

RT: 11.590 min Scan# 31

Delta R.T. 0.006 min

Lab File: VV032452.D

Acq: 17 Oct 2023 17:54

Instrument :

MSVOA_V

ClientSampleId :

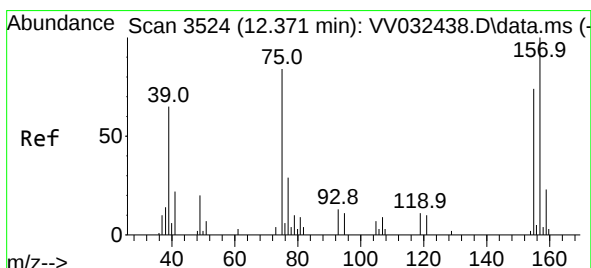
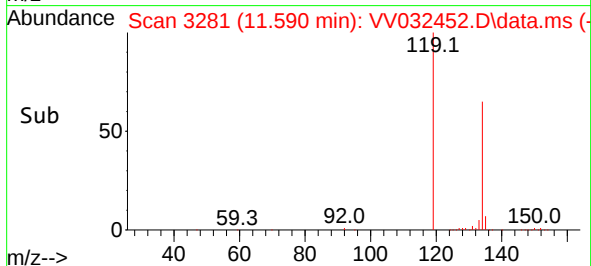
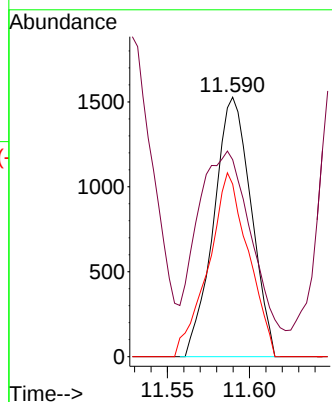
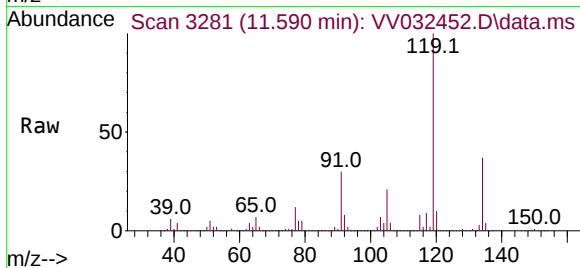
Tgt Ion:146 Resp: 2411

Ion Ratio Lower Upper

146 100

111 75.9 32.8 49.2#

148 66.4 51.0 76.4



#68

1,2-Dibromo-3-chloropropane

Concen: 12.491 ug/L

RT: 12.358 min Scan# 3520

Delta R.T. -0.013 min

Lab File: VV032452.D

Acq: 17 Oct 2023 17:54

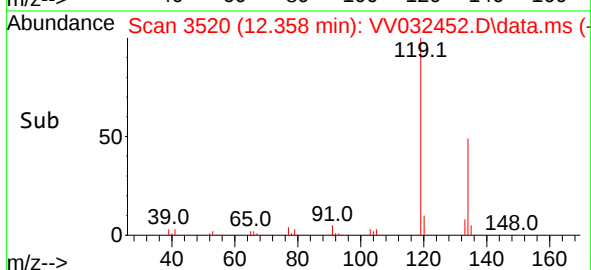
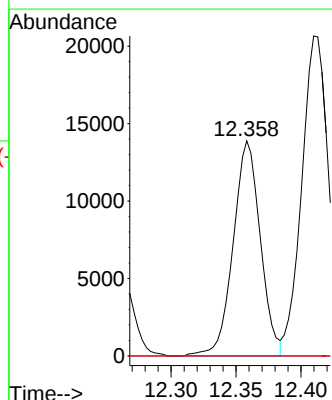
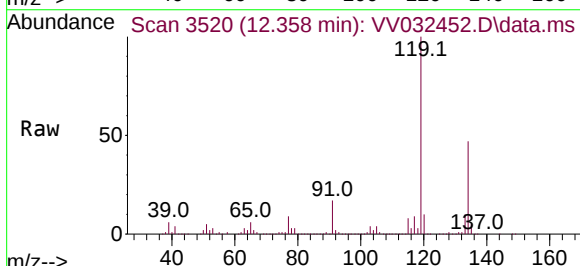
Tgt Ion: 75 Resp: 20208

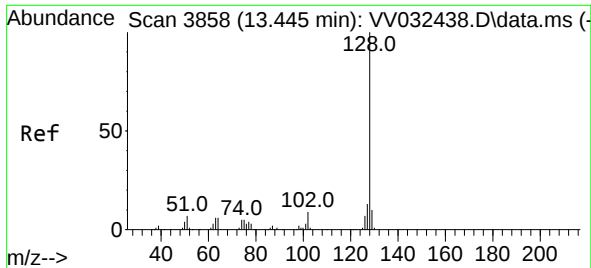
Ion Ratio Lower Upper

75 100

155 0.0 70.2 105.4#

157 0.0 90.6 135.8#





#71

Naphthalene

Concen: 487.843 ug/L

RT: 13.445 min Scan# 3858

Delta R.T. 0.000 min

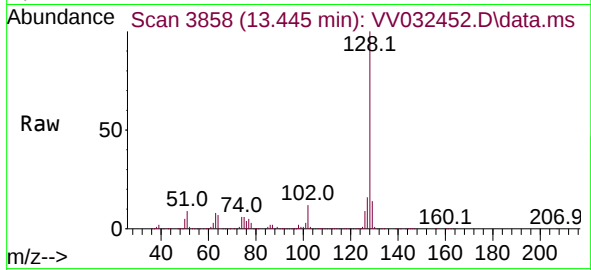
Lab File: VV032452.D

Acq: 17 Oct 2023 17:54

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:128 Resp:14868329

Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.0	13.4
127	15.1	10.2	15.2

