

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121323\
 Data File : VW033307.D
 Acq On : 14 Dec 2023 03:55
 Operator : SY/MD
 Sample : 05770-07
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 E0Y79

Quant Time: Dec 14 04:37:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 14 01:07:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.564	114	123443	5.000	ug/L	0.03
28) Chlorobenzene-d5	8.802	117	122350	5.000	ug/L	0.02
58) 1,4-Dichlorobenzene-d4	11.191	152	70998	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.282	65	36764	4.646	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.000%
7) Chloroethane-d5	1.552	69	29029	4.932	ug/L	0.02
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.600%
11) 1,1-Dichloroethene-d2	2.085	65	15594	4.951	ug/L	0.03
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.000%
20) 2-Butanone-d5	3.934	46	36350	38.816	ug/L	0.14
Spiked Amount	50.000	Range	40 - 130	Recovery	=	77.640%
24) Chloroform-d	4.269	84	76717	4.648	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.000%
26) 1,2-Dichloroethane-d4	4.957	65	40923	5.706	ug/L	0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.200%
32) Benzene-d6	4.960	84	152832	4.829	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.600%
36) 1,2-Dichloropropane-d6	6.037	67	34985	4.856	ug/L	0.05
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.200%
41) Toluene-d8	7.281	98	139147	4.512	ug/L	0.04
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.200%
43) trans-1,3-Dichloroprop...	7.590	79	14736	4.484	ug/L	0.04
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.600%
46) 2-Hexanone-d5	8.063	63	42183	45.976	ug/L	0.04
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.960%
56) 1,1,2,2-Tetrachloroeth...	10.165	84	30128	6.184	ug/L	0.01
Spiked Amount	5.000	Range	65 - 120	Recovery	=	123.600%#
66) 1,2-Dichlorobenzene-d4	11.564	152	67395	5.389	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	107.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.214	50	1467	0.167	ug/L	96
5) Vinyl chloride	1.285	62	2653	0.298	ug/L #	79
14) Carbon disulfide	2.262	76	19988	0.869	ug/L	96
18) trans-1,2-Dichloroethene	2.709	96	1011	0.118	ug/L	94
22) cis-1,2-Dichloroethene	3.844	96	11673	1.320	ug/L	81
27) 1,2-Dichloroethane	5.220	62	1076	0.124	ug/L	99
30) Cyclohexane	4.580	56	1816	0.168	ug/L #	20
33) Benzene	5.011	78	214779	6.552	ug/L	100
34) Trichloroethene	5.870	95	12963	1.356	ug/L	92
35) Methylcyclohexane	6.034	83	10682	0.755	ug/L #	22
39) cis-1,3-Dichloropropene	6.957	75	962	0.090	ug/L #	47
42) Toluene	7.352	91	300421	8.000	ug/L	99
44) trans-1,3-Dichloropropene	7.593	75	730	0.082	ug/L #	82
45) 1,1,2-Trichloroethane	7.748	97	3427	0.675	ug/L #	22
48) 2-Hexanone	8.059	43	4976	2.959	ug/L #	54
51) Chlorobenzene	8.834	112	52322	2.034	ug/L	98
52) Ethylbenzene	8.966	91	23972	0.570	ug/L	99
53) m,p-Xylene	9.088	106	13976	0.807	ug/L	99
54) o-Xylene	9.493	106	5303	0.323	ug/L	95

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

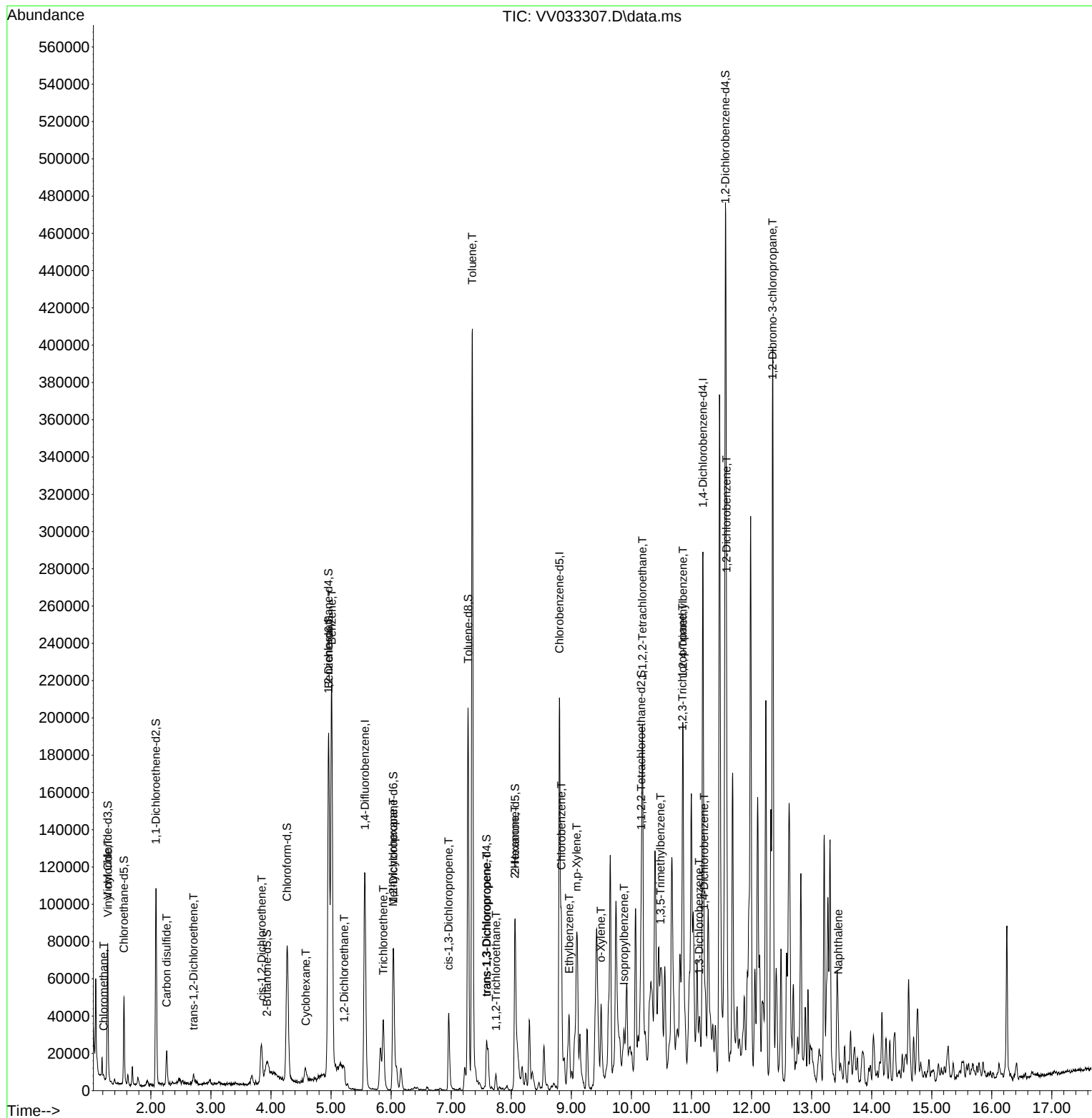
57) 1,1,2,2-Tetrachloroethane	10.185	83	13103	2.648	ug/L #	35
60) Isopropylbenzene	9.876	105	14925	0.317	ug/L	98
61) 1,2,3-Trichloropropane	10.850	75	1060	0.282	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.484	105	17815	0.463	ug/L	99
63) 1,2,4-Trimethylbenzene	10.857	105	83340	2.190	ug/L	100
64) 1,3-Dichlorobenzene	11.130	146	2020	0.084	ug/L #	50
65) 1,4-Dichlorobenzene	11.214	146	10735	0.451	ug/L	98
67) 1,2-Dichlorobenzene	11.583	146	27684	1.345	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.349	75	1585	1.801	ug/L #	1
71) Naphthalene	13.445	128	17182	1.008	ug/L #	70

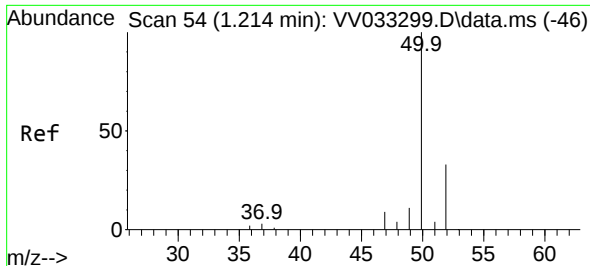
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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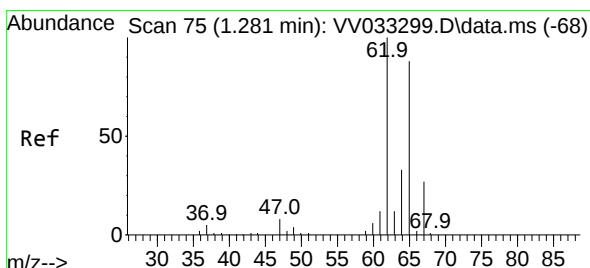
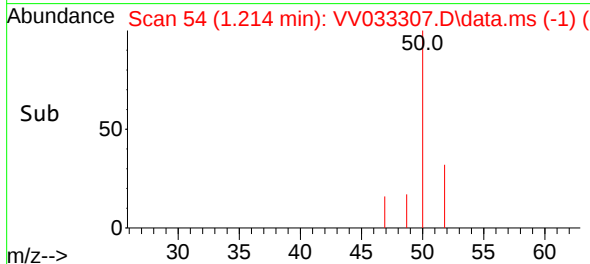
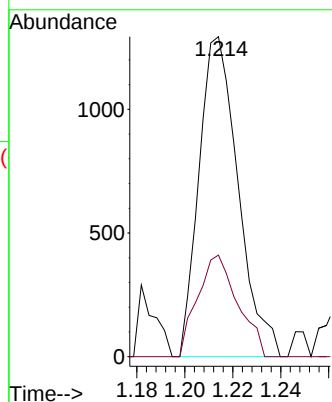
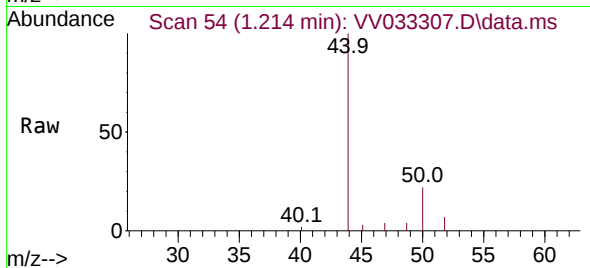




#3
Chloromethane
Concen: 0.167 ug/L
RT: 1.214 min Scan# 54
Delta R.T. 0.000 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

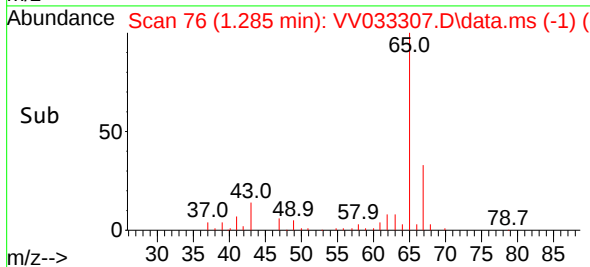
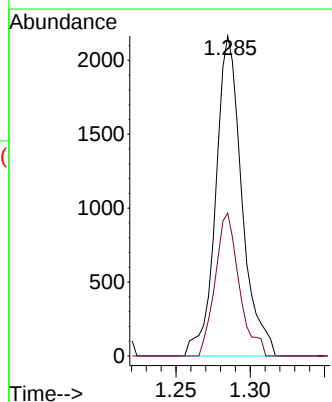
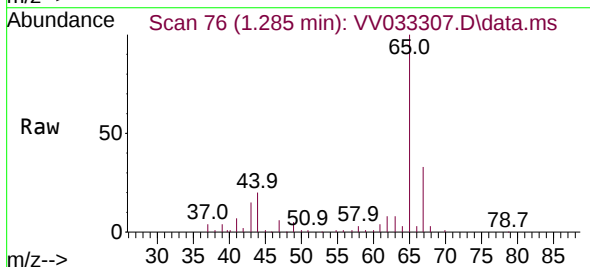
Instrument :
MSVOA_V
ClientSampleId :
E0Y79

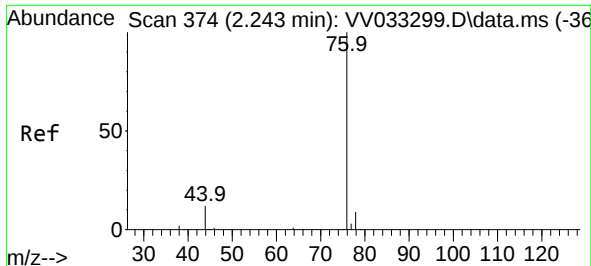
Tgt Ion: 50 Resp: 1467
Ion Ratio Lower Upper
50 100
52 31.8 23.8 44.2



#5
Vinyl chloride
Concen: 0.298 ug/L
RT: 1.285 min Scan# 76
Delta R.T. 0.003 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

Tgt Ion: 62 Resp: 2653
Ion Ratio Lower Upper
62 100
64 44.7 23.0 42.8#





#14

Carbon disulfide

Concen: 0.869 ug/L

RT: 2.262 min Scan# 31

Delta R.T. 0.019 min

Lab File: VV033307.D

Acq: 14 Dec 2023 03:55

Instrument :

MSVOA_V

ClientSampleId :

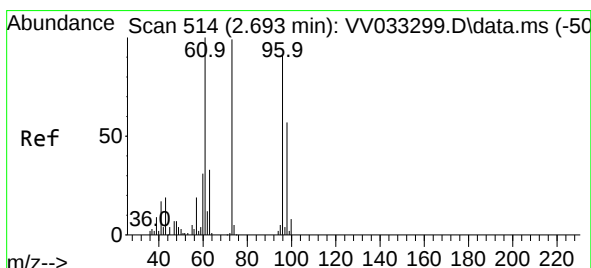
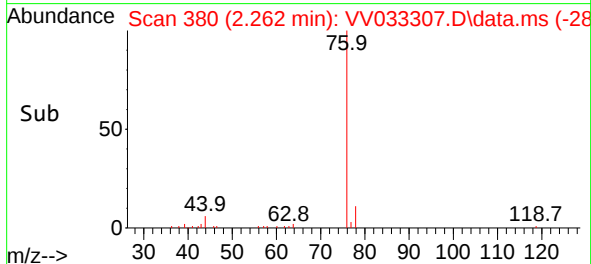
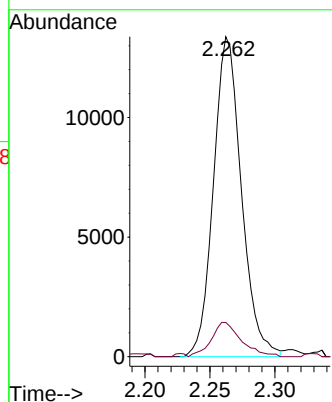
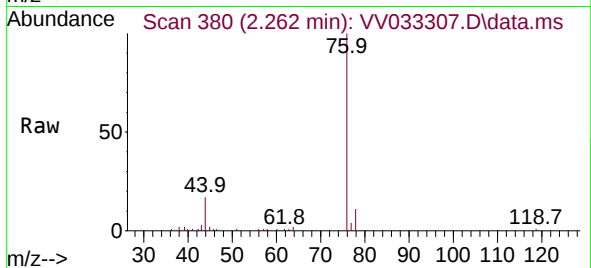
E0Y79

Tgt Ion: 76 Resp: 19988

Ion Ratio Lower Upper

76 100

78 10.7 7.4 11.0



#18

trans-1,2-Dichloroethene

Concen: 0.118 ug/L

RT: 2.709 min Scan# 519

Delta R.T. 0.016 min

Lab File: VV033307.D

Acq: 14 Dec 2023 03:55

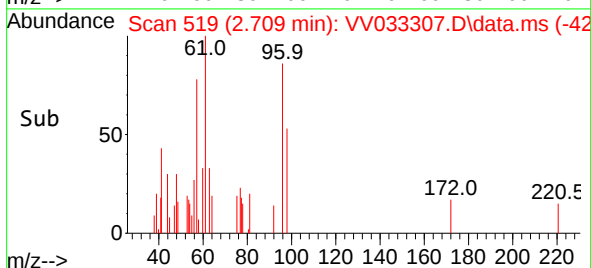
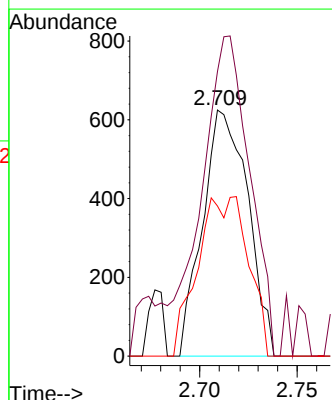
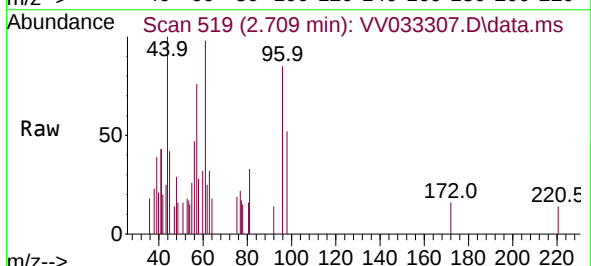
Tgt Ion: 96 Resp: 1011

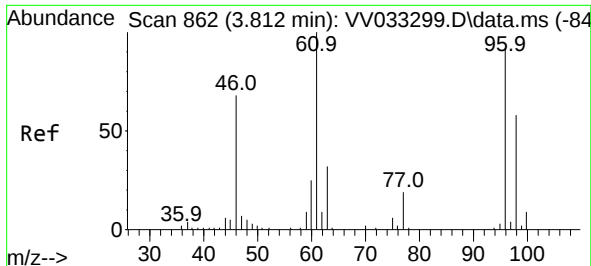
Ion Ratio Lower Upper

96 100

61 115.7 84.6 157.2

98 61.0 46.7 86.7





#22

cis-1,2-Dichloroethene

Concen: 1.320 ug/L

RT: 3.844 min Scan# 81

Delta R.T. 0.032 min

Lab File: VV033307.D

Acq: 14 Dec 2023 03:55

Instrument :

MSVOA_V

ClientSampleId :

E0Y79

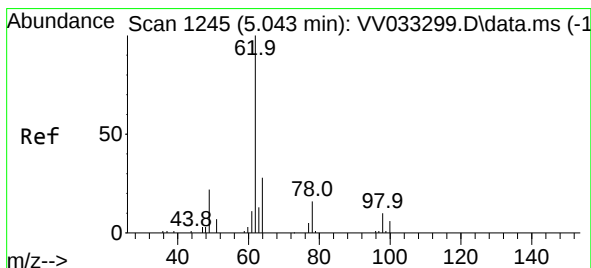
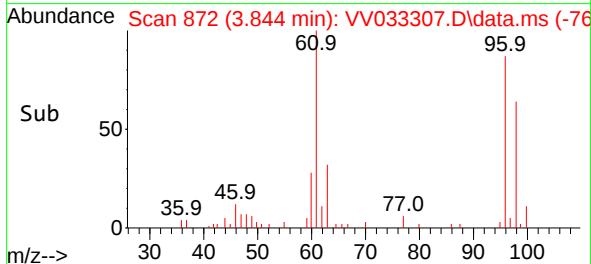
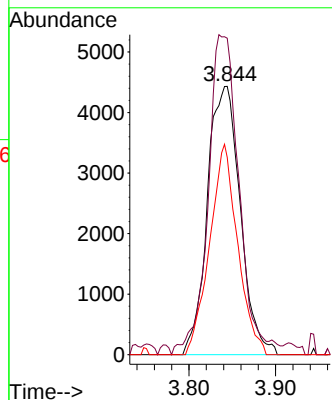
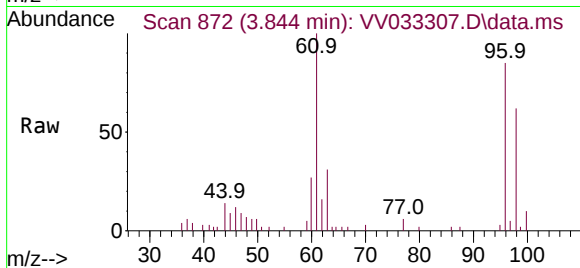
Tgt Ion: 96 Resp: 11673

Ion Ratio Lower Upper

96 100

61 118.0 69.9 129.9

98 75.9 42.4 78.8



#27

1,2-Dichloroethane

Concen: 0.124 ug/L

RT: 5.220 min Scan# 1300

Delta R.T. 0.177 min

Lab File: VV033307.D

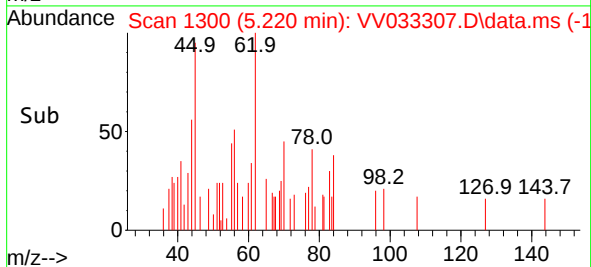
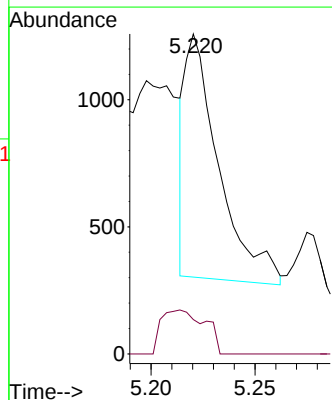
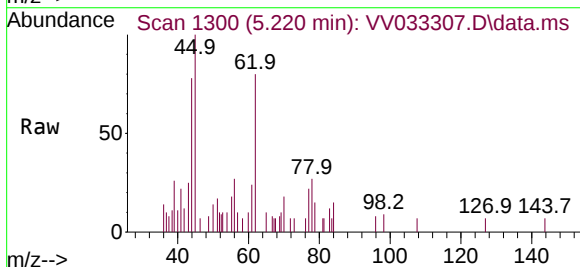
Acq: 14 Dec 2023 03:55

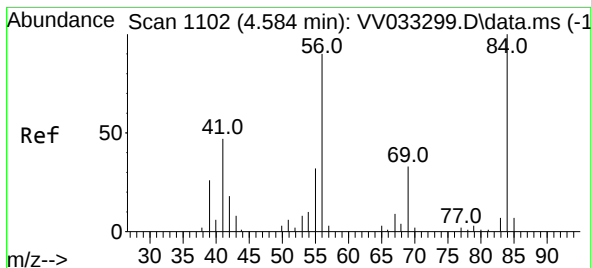
Tgt Ion: 62 Resp: 1076

Ion Ratio Lower Upper

62 100

98 10.7 8.2 12.4





#30

Cyclohexane

Concen: 0.168 ug/L

RT: 4.580 min Scan# 1102

Delta R.T. -0.003 min

Lab File: VV033307.D

Acq: 14 Dec 2023 03:55

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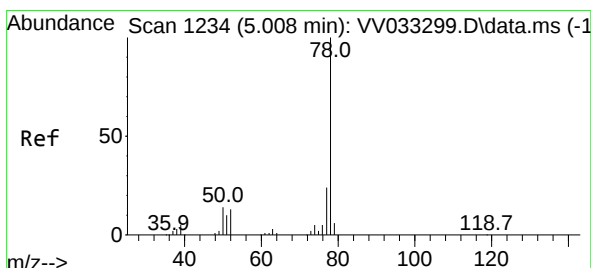
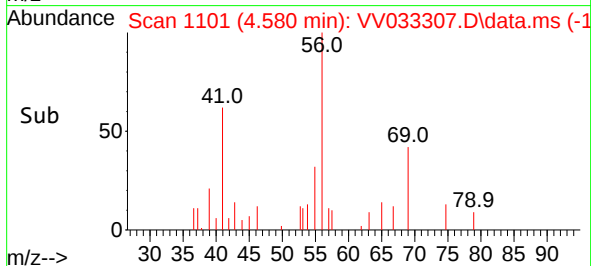
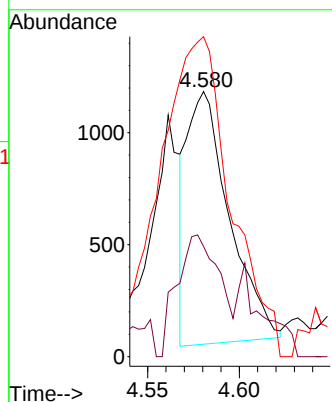
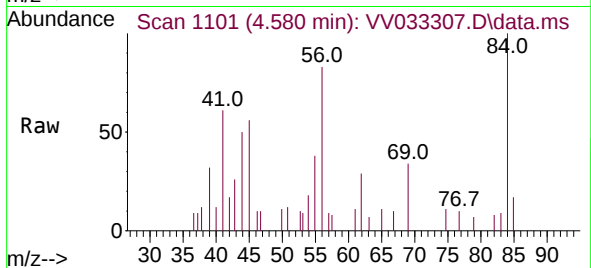
Tgt Ion: 56 Resp: 1816

Ion Ratio Lower Upper

56 100

69 48.8 28.8 43.2#

84 211.3 86.2 129.4#



#33

Benzene

Concen: 6.552 ug/L

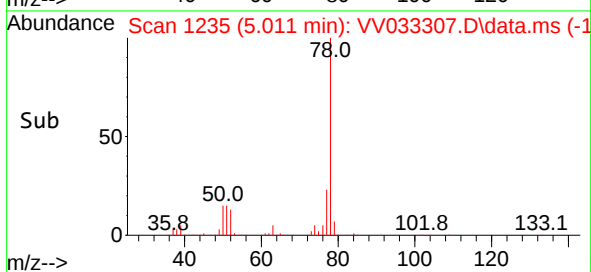
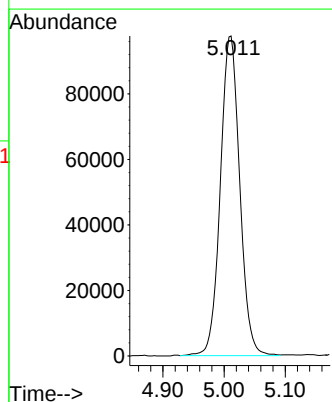
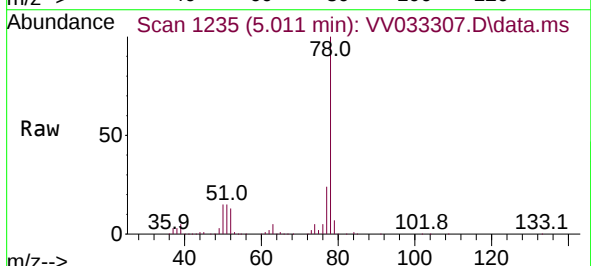
RT: 5.011 min Scan# 1235

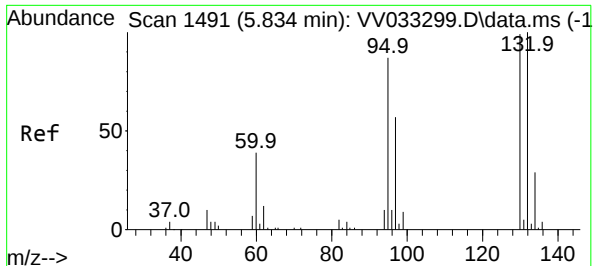
Delta R.T. 0.003 min

Lab File: VV033307.D

Acq: 14 Dec 2023 03:55

Tgt Ion: 78 Resp: 214779





#34

Trichloroethene

Concen: 1.356 ug/L

RT: 5.870 min Scan# 11

Delta R.T. 0.035 min

Lab File: VV033307.D

Acq: 14 Dec 2023 03:55

Instrument :

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ClientSampleId :

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Tgt Ion: 95 Resp: 12963

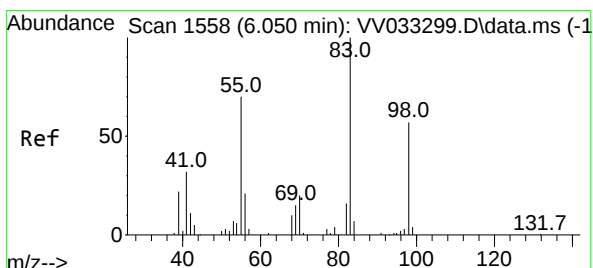
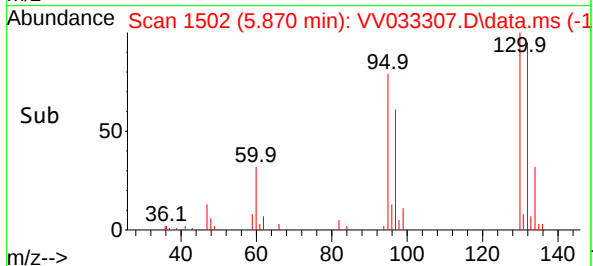
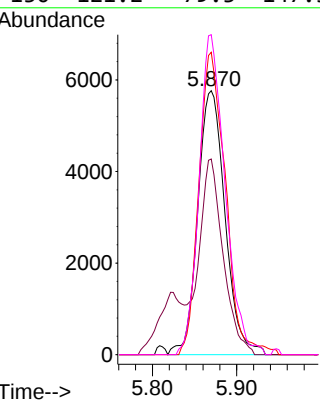
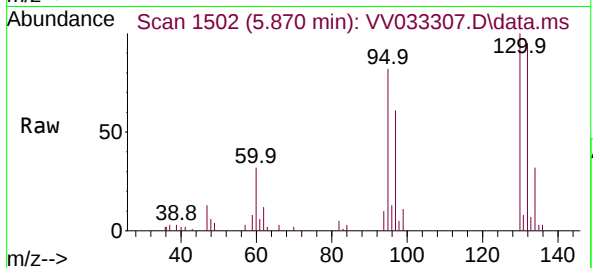
Ion Ratio Lower Upper

95 100

97 74.1 46.5 86.5

132 114.6 75.1 139.5

130 121.2 79.3 147.3



#35

Methylcyclohexane

Concen: 0.755 ug/L

RT: 6.034 min Scan# 1553

Delta R.T. -0.016 min

Lab File: VV033307.D

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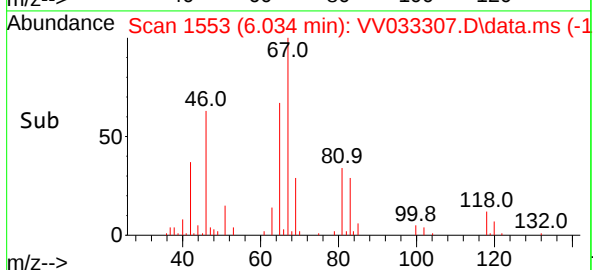
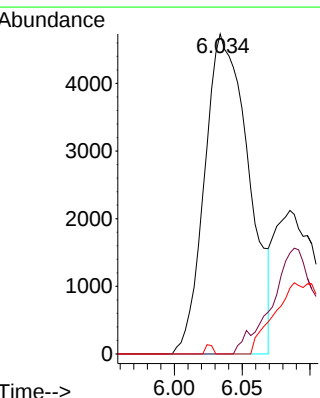
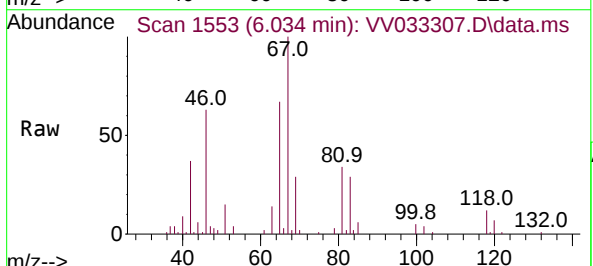
Tgt Ion: 83 Resp: 10682

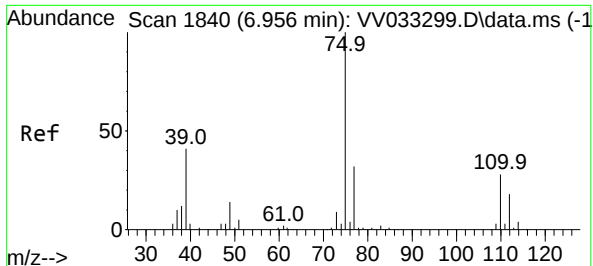
Ion Ratio Lower Upper

83 100

55 0.0 50.7 76.1#

98 0.5 42.4 63.6#





#39

cis-1,3-Dichloropropene

Concen: 0.090 ug/L

RT: 6.957 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV033307.D

Acq: 14 Dec 2023 03:55

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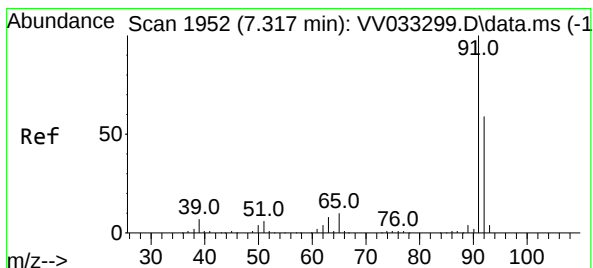
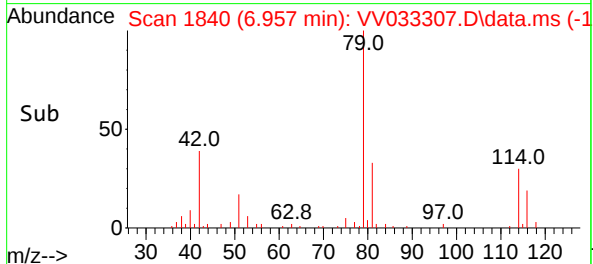
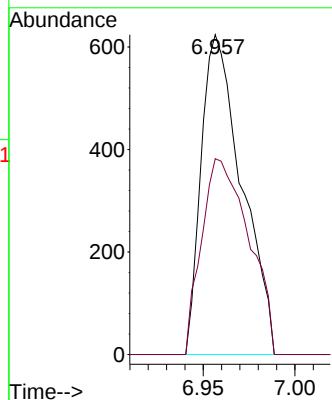
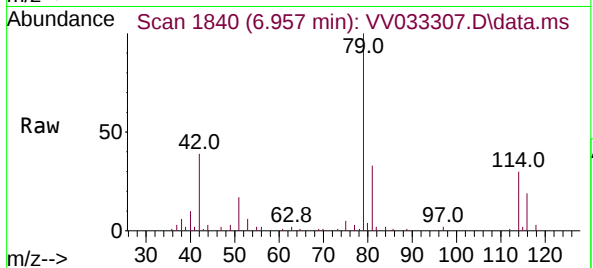
E0Y79

Tgt Ion: 75 Resp: 962

Ion Ratio Lower Upper

75 100

77 61.2 22.1 41.1#



#42

Toluene

Concen: 8.000 ug/L

RT: 7.352 min Scan# 1963

Delta R.T. 0.035 min

Lab File: VV033307.D

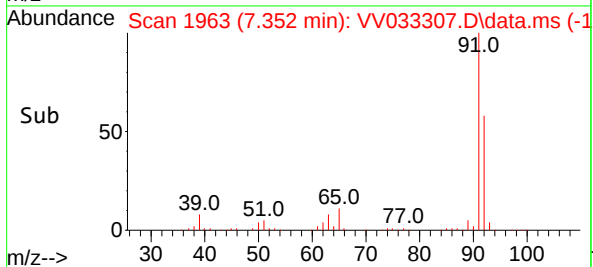
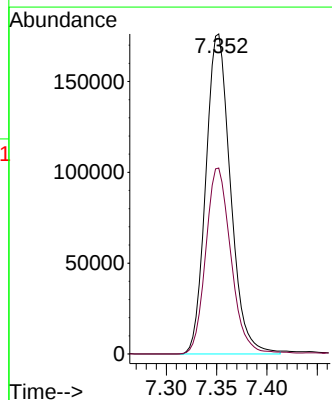
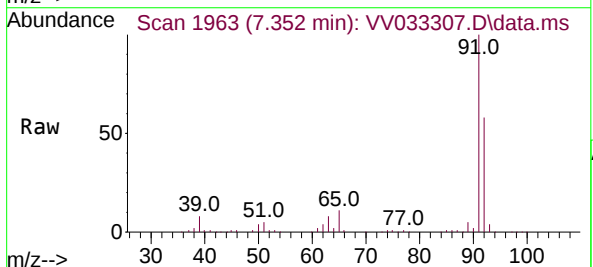
Acq: 14 Dec 2023 03:55

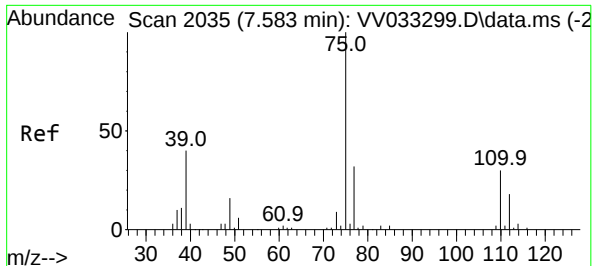
Tgt Ion: 91 Resp: 300421

Ion Ratio Lower Upper

91 100

92 58.1 40.2 74.6

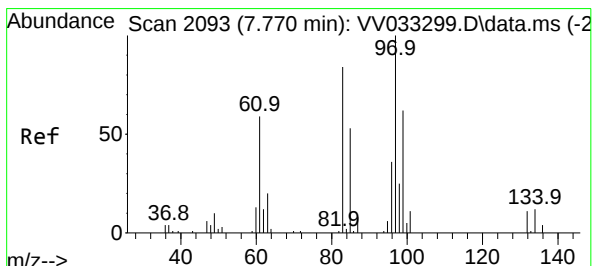
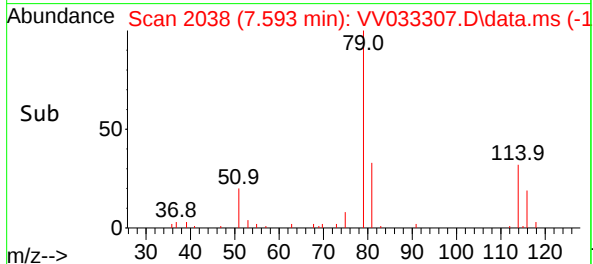
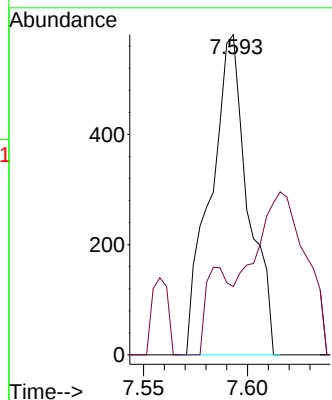
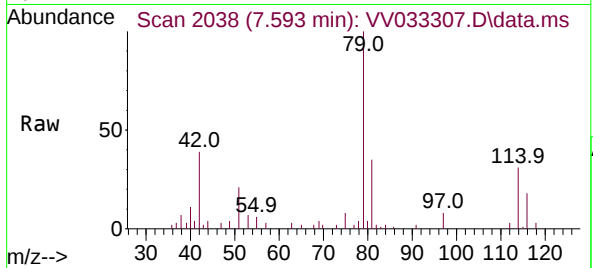




#44
trans-1,3-Dichloropropene
Concen: 0.082 ug/L
RT: 7.593 min Scan# 2038
Delta R.T. 0.010 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

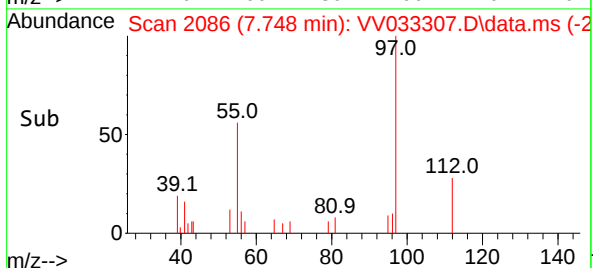
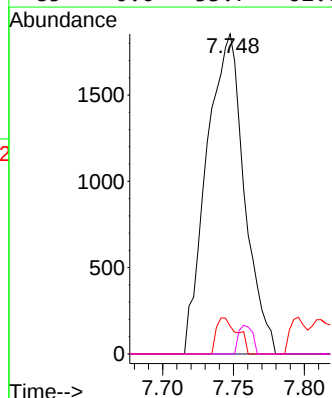
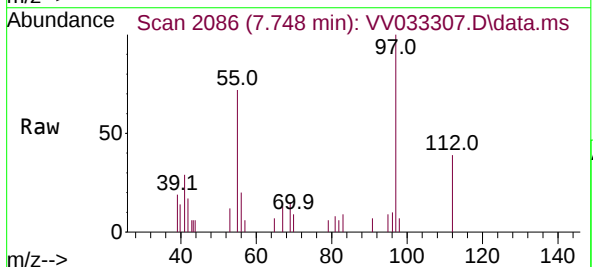
Instrument :
MSVOA_V
ClientSampleId :
E0Y79

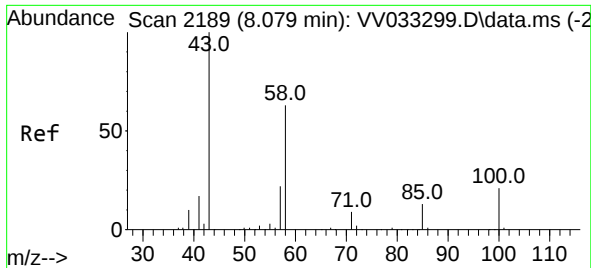
Tgt Ion: 75 Resp: 730
Ion Ratio Lower Upper
75 100
77 21.3 21.7 40.3#



#45
1,1,2-Trichloroethane
Concen: 0.675 ug/L
RT: 7.748 min Scan# 2086
Delta R.T. -0.022 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

Tgt Ion: 97 Resp: 3427
Ion Ratio Lower Upper
97 100
99 0.0 44.5 82.7#
83 8.7 54.7 101.5#
85 0.0 33.7 62.7#

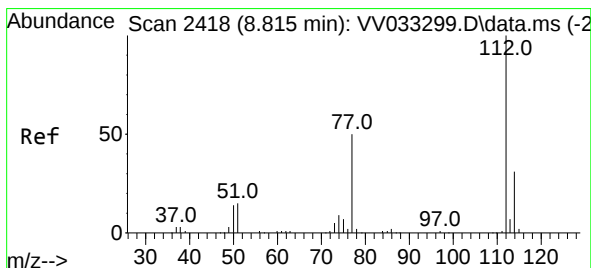
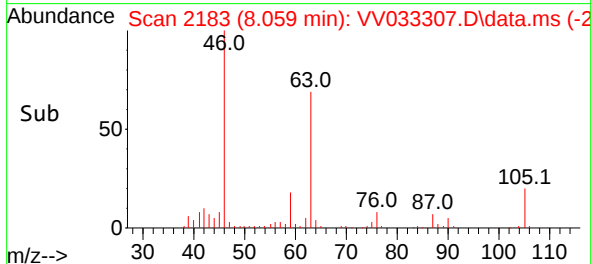
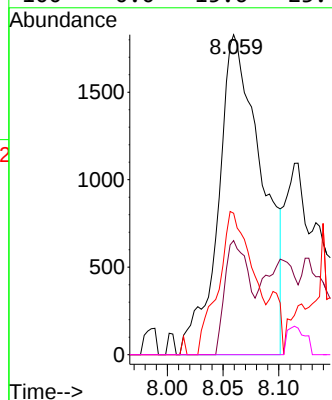
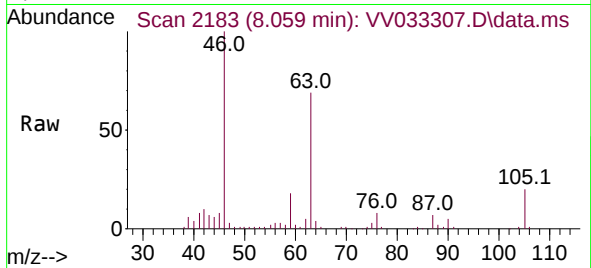




#48
2-Hexanone
Concen: 2.959 ug/L
RT: 8.059 min Scan# 2189
Delta R.T. -0.019 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

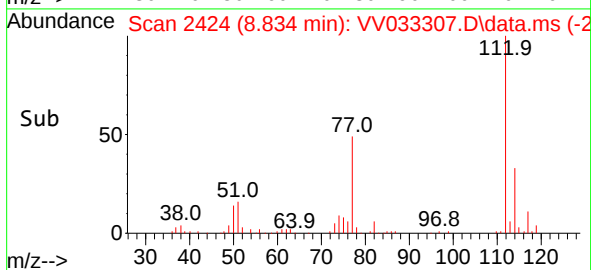
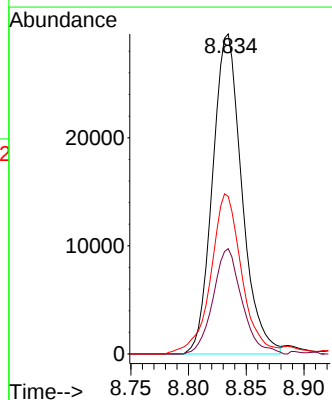
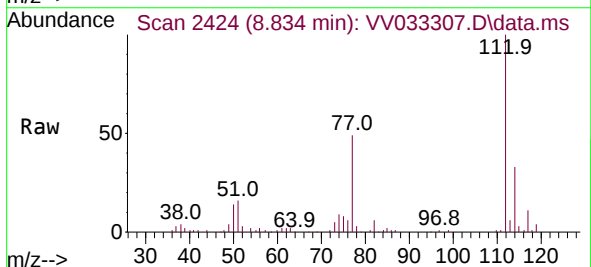
Instrument :
MSVOA_V
ClientSampleId :
E0Y79

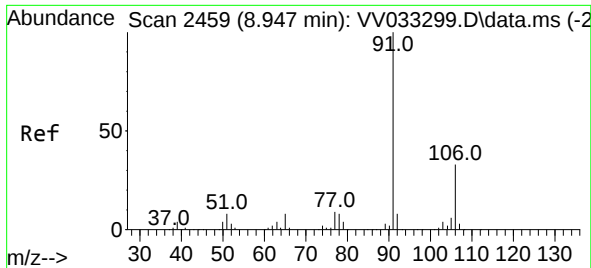
Tgt Ion: 43	Resp: 4976
Ion Ratio	Lower Upper
43 100	
58 19.9	48.6 72.8#
57 35.1	18.1 27.1#
100 0.0	15.6 23.4#



#51
Chlorobenzene
Concen: 2.034 ug/L
RT: 8.834 min Scan# 2424
Delta R.T. 0.019 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

Tgt Ion:112	Resp: 52322
Ion Ratio	Lower Upper
112 100	
114 32.9	22.8 42.4
77 49.2	41.3 61.9

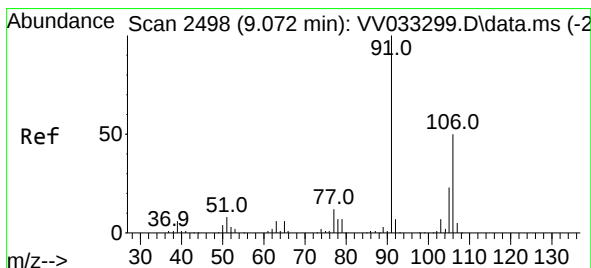
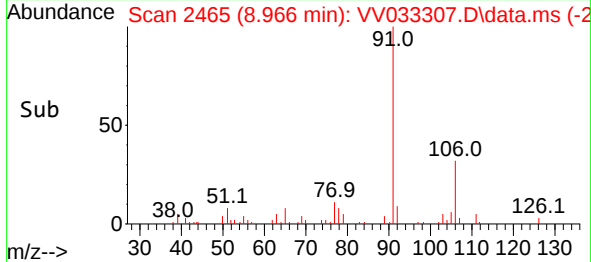
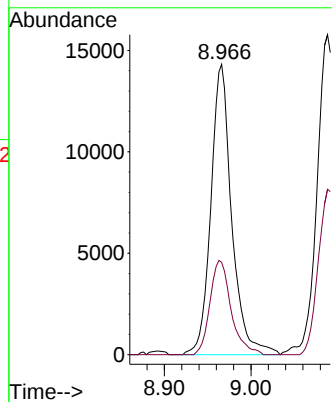
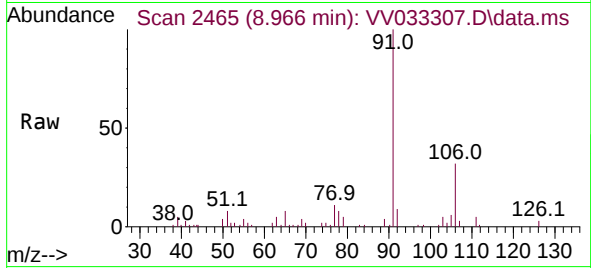




#52
Ethylbenzene
Concen: 0.570 ug/L
RT: 8.966 min Scan# 2459
Delta R.T. 0.019 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

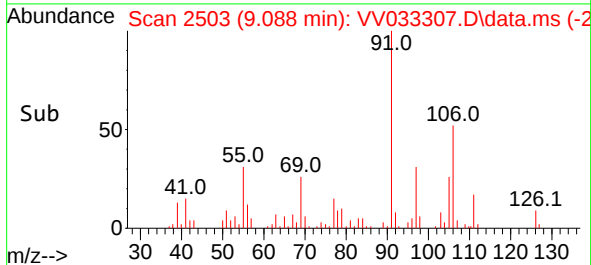
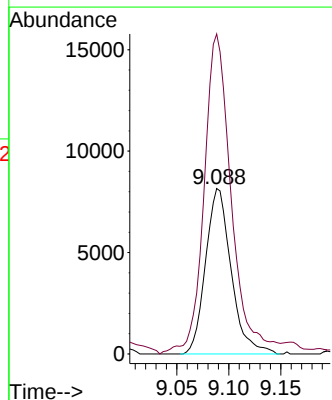
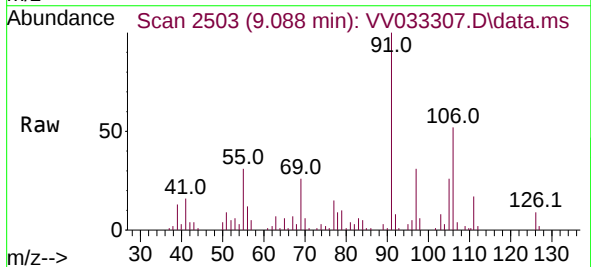
Instrument :
MSVOA_V
ClientSampleId :
E0Y79

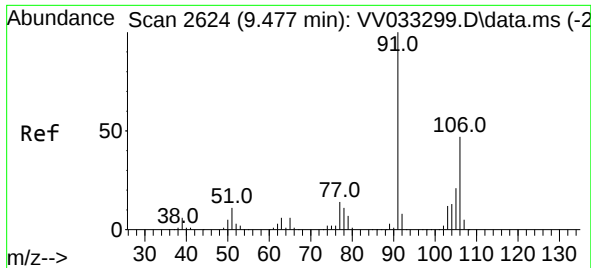
Tgt Ion: 91 Resp: 23972
Ion Ratio Lower Upper
91 100
106 31.8 22.7 42.3



#53
m,p-Xylene
Concen: 0.807 ug/L
RT: 9.088 min Scan# 2503
Delta R.T. 0.016 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

Tgt Ion: 106 Resp: 13976
Ion Ratio Lower Upper
106 100
91 193.5 136.8 254.0

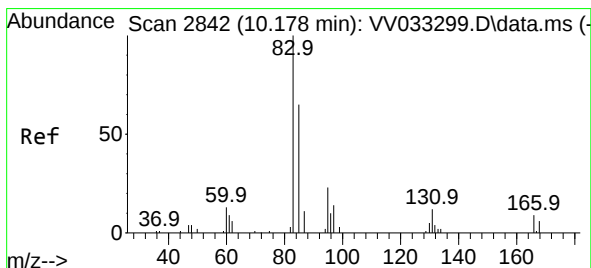
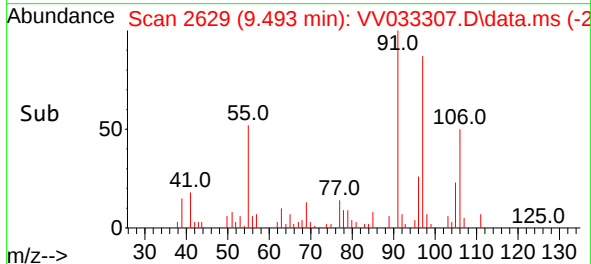
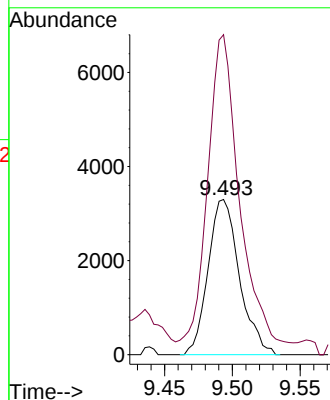
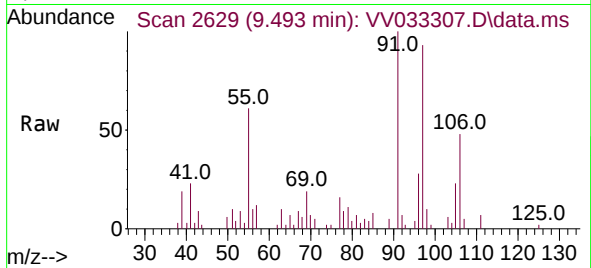




#54
o-Xylene
Concen: 0.323 ug/L
RT: 9.493 min Scan# 210
Delta R.T. 0.016 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

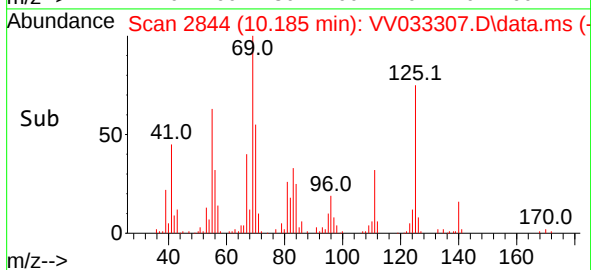
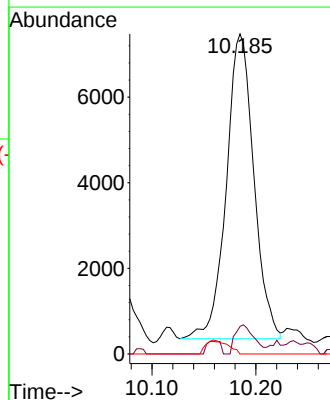
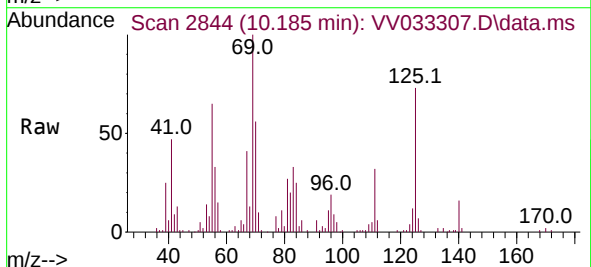
Instrument :
MSVOA_V
ClientSampleId :
E0Y79

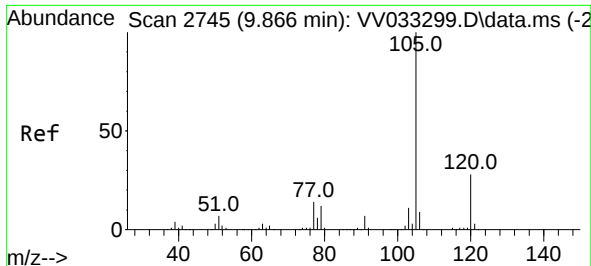
Tgt Ion:106 Resp: 5303
Ion Ratio Lower Upper
106 100
91 206.2 149.9 278.5



#57
1,1,2,2-Tetrachloroethane
Concen: 2.648 ug/L
RT: 10.185 min Scan# 2844
Delta R.T. 0.007 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

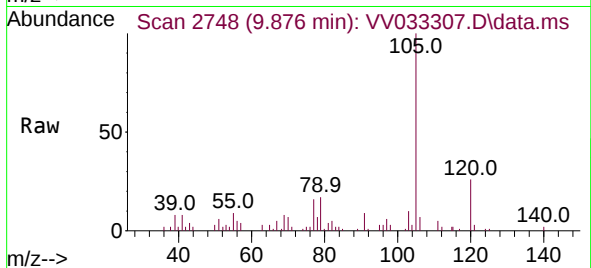
Tgt Ion: 83 Resp: 13103
Ion Ratio Lower Upper
83 100
85 8.6 45.4 84.4#
131 0.0 11.5 17.3#



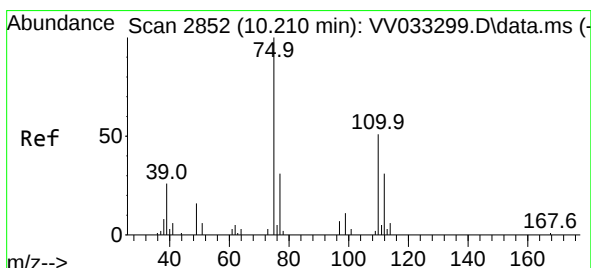
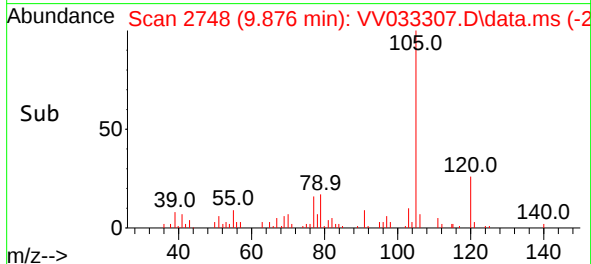
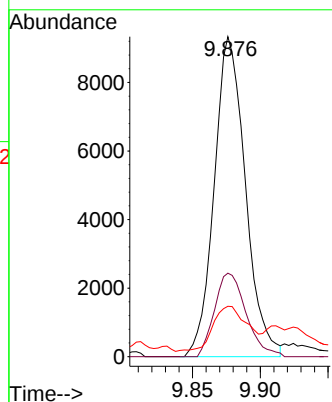


#60
Isopropylbenzene
Concen: 0.317 ug/L
RT: 9.876 min Scan# 21
Delta R.T. 0.010 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

Instrument :
MSVOA_V
ClientSampleId :
E0Y79

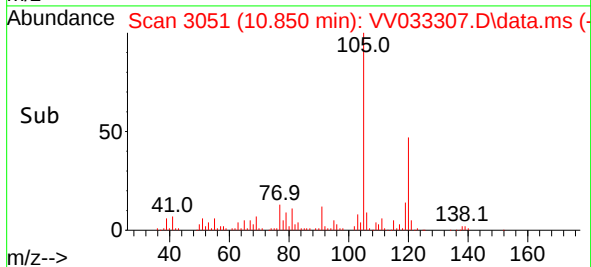
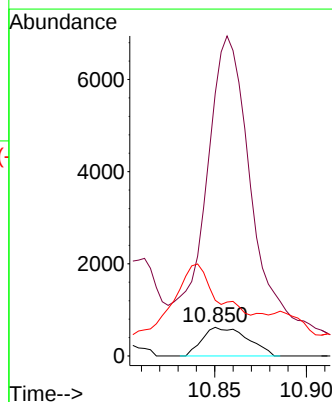
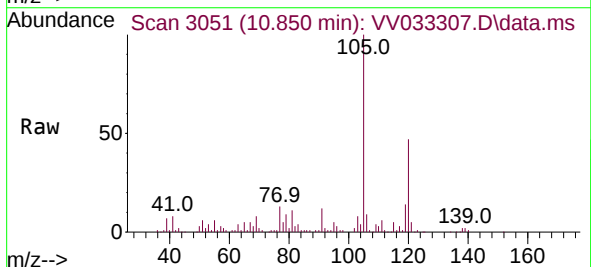


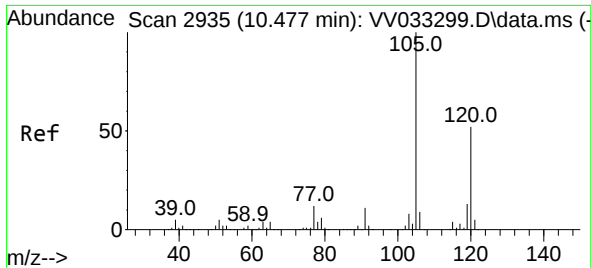
Tgt Ion:105 Resp: 14925
Ion Ratio Lower Upper
105 100
120 26.4 22.2 33.4
77 14.8 11.6 17.4



#61
1,2,3-Trichloropropane
Concen: 0.282 ug/L
RT: 10.850 min Scan# 3051
Delta R.T. 0.640 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

Tgt Ion: 75 Resp: 1060
Ion Ratio Lower Upper
75 100
77 1089.3 27.4 41.2#
110 369.2 39.4 59.2#

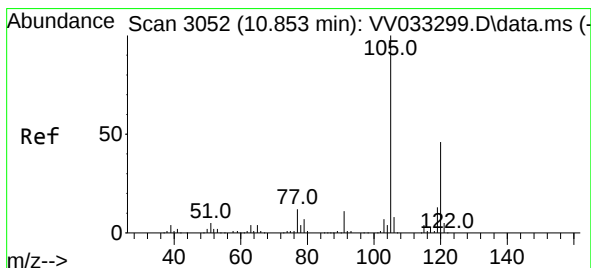
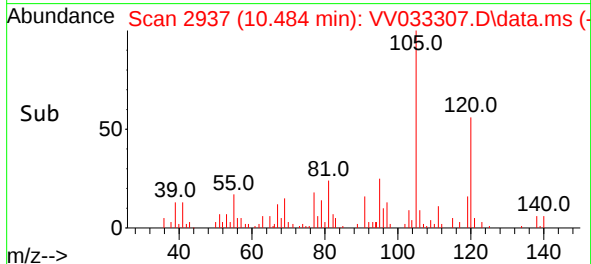
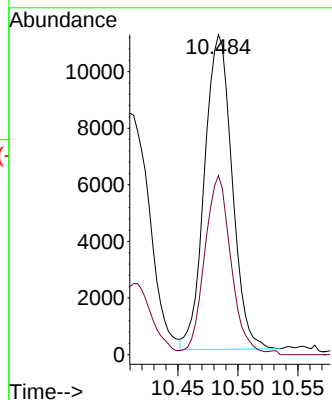
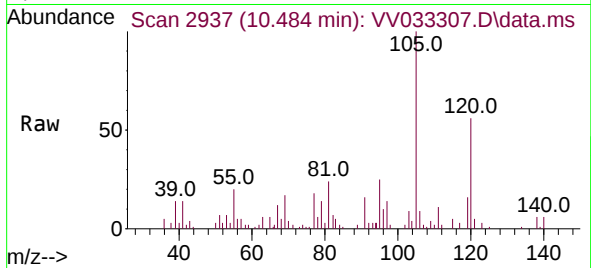




#62
 1,3,5-Trimethylbenzene
 Concen: 0.463 ug/L
 RT: 10.484 min Scan# 2935
 Delta R.T. 0.007 min
 Lab File: VV033307.D
 Acq: 14 Dec 2023 03:55

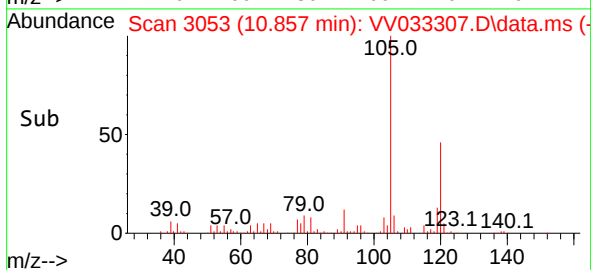
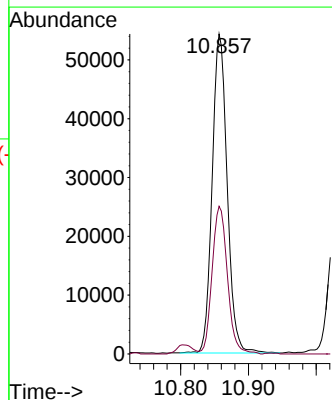
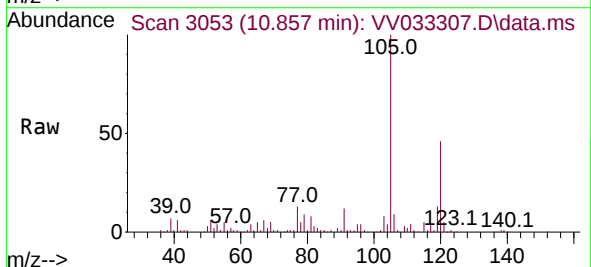
Instrument :
 MSVOA_V
 ClientSampleId :
 E0Y79

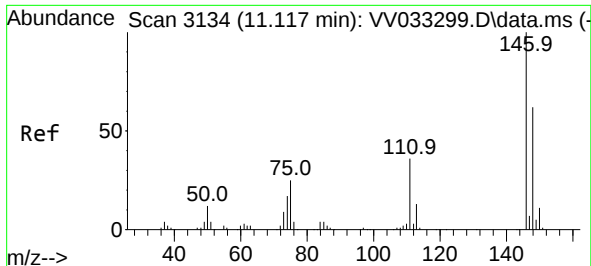
Tgt Ion:105 Resp: 17815
 Ion Ratio Lower Upper
 105 100
 120 51.7 41.7 62.5



#63
 1,2,4-Trimethylbenzene
 Concen: 2.190 ug/L
 RT: 10.857 min Scan# 3053
 Delta R.T. 0.003 min
 Lab File: VV033307.D
 Acq: 14 Dec 2023 03:55

Tgt Ion:105 Resp: 83340
 Ion Ratio Lower Upper
 105 100
 120 47.3 38.1 57.1

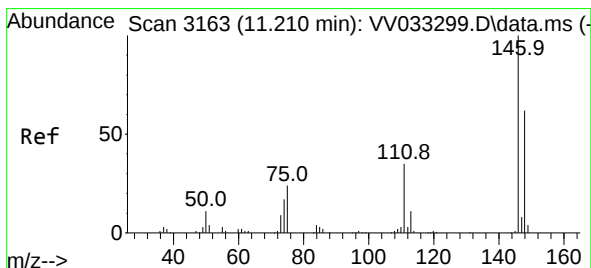
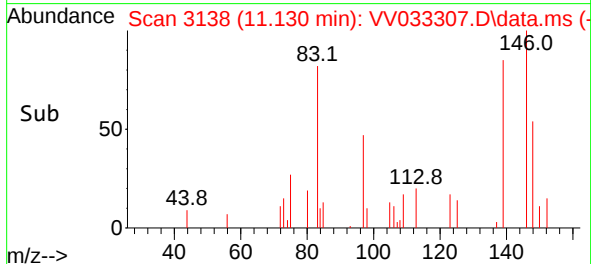
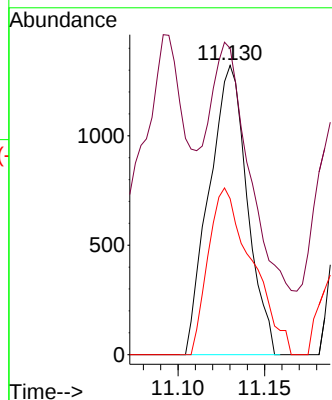
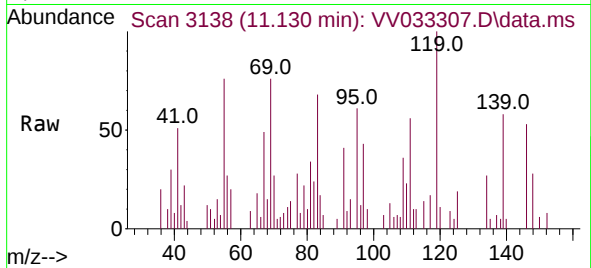




#64
1,3-Dichlorobenzene
Concen: 0.084 ug/L
RT: 11.130 min Scan# 3138
Delta R.T. 0.013 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

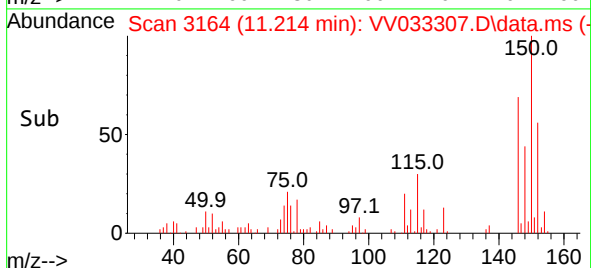
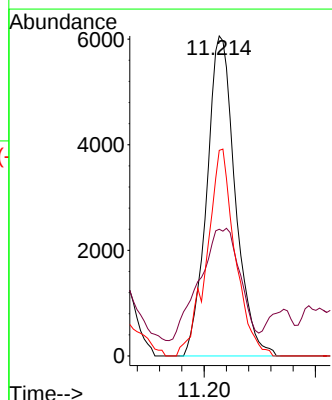
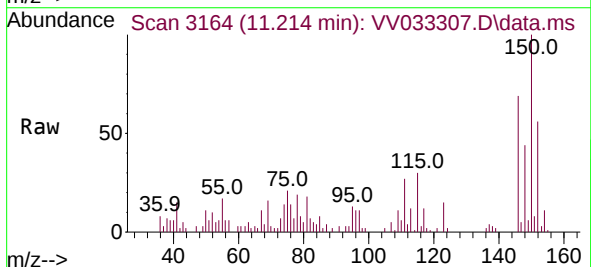
Instrument :
MSVOA_V
ClientSampleId :
E0Y79

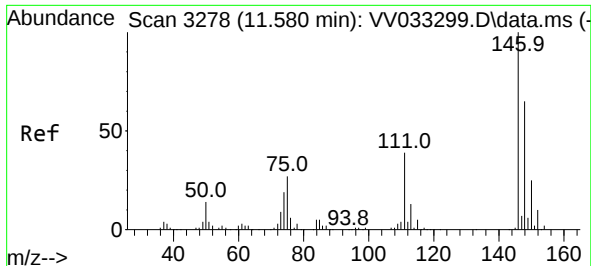
Tgt Ion:146 Resp: 2020
Ion Ratio Lower Upper
146 100
111 105.9 26.0 48.2#
148 53.9 44.5 82.7



#65
1,4-Dichlorobenzene
Concen: 0.451 ug/L
RT: 11.214 min Scan# 3164
Delta R.T. 0.003 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

Tgt Ion:146 Resp: 10735
Ion Ratio Lower Upper
146 100
111 39.6 25.6 47.4
148 64.2 44.7 82.9

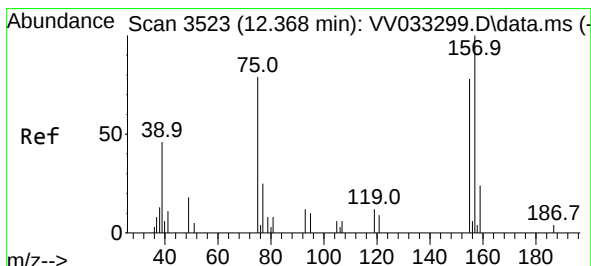
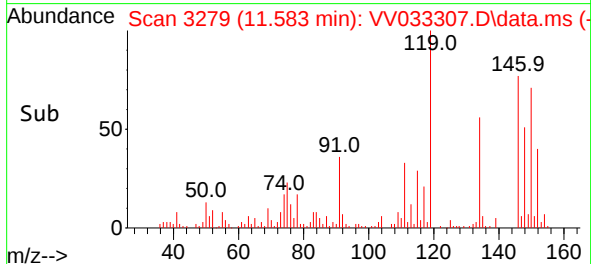
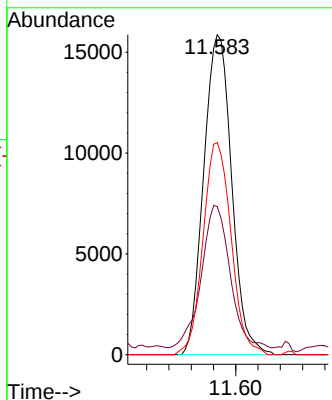
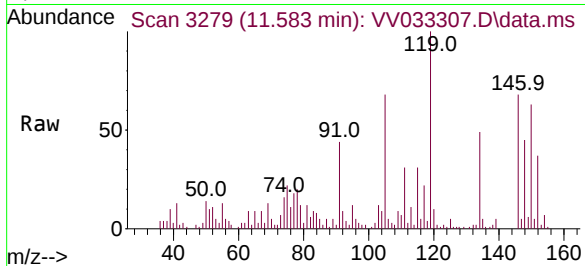




#67
1,2-Dichlorobenzene
Concen: 1.345 ug/L
RT: 11.583 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

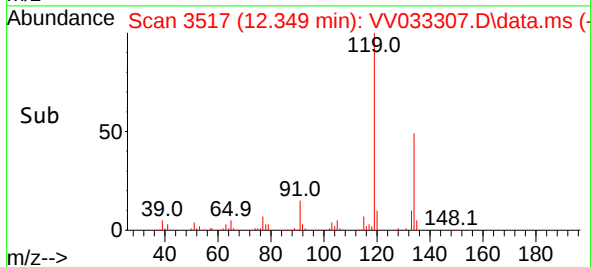
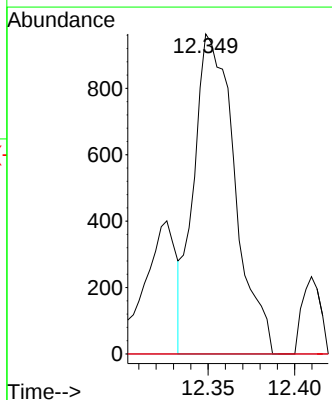
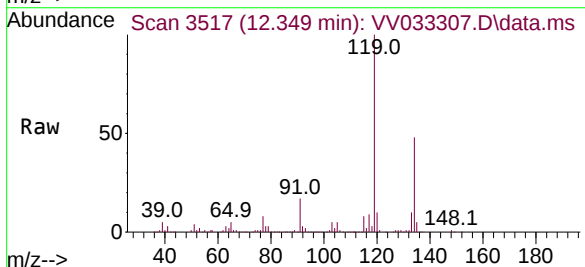
Instrument :
MSVOA_V
ClientSampleId :
E0Y79

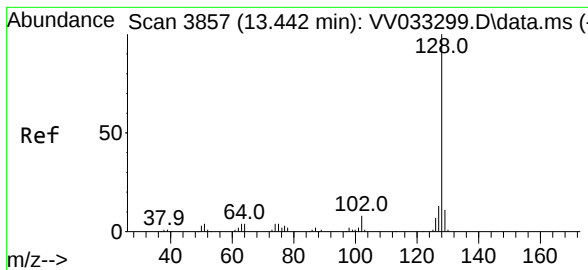
Tgt Ion:146 Resp: 27684
Ion Ratio Lower Upper
146 100
111 46.3 31.0 46.4
148 66.3 52.6 79.0



#68
1,2-Dibromo-3-chloropropane
Concen: 1.801 ug/L
RT: 12.349 min Scan# 3517
Delta R.T. -0.019 min
Lab File: VV033307.D
Acq: 14 Dec 2023 03:55

Tgt Ion: 75 Resp: 1585
Ion Ratio Lower Upper
75 100
155 0.0 79.8 119.8#
157 0.0 110.2 165.2#





#71
 Naphthalene
 Concen: 1.008 ug/L
 RT: 13.445 min Scan# 3858
 Delta R.T. 0.003 min
 Lab File: VV033307.D
 Acq: 14 Dec 2023 03:55

Instrument :
 MSVOA_V
 ClientSampleId :
 E0Y79

Tgt Ion:	128	Resp:	17182
Ion	Ratio	Lower	Upper
128	100		
129	31.4	8.8	13.2#
127	16.2	10.1	15.1#

