

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092123\
 Data File : VD077187.D
 Acq On : 21 Sep 2023 18:10
 Operator : JC/SY
 Sample : 04527-08
 Misc : 5.20G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 22 01:33:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM090123SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Sep 22 01:29:35 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.775	114	290473	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	273111	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	155863	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.269	65	104952	14.663	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	58.640%
7) Chloroethane-d5	2.799	69	82749	14.059	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	56.240%
11) 1,1-Dichloroethene-d2	3.905	65	13238	8.142	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	32.560%#
21) 2-Butanone-d5	6.993	46	24044	26.666	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	53.340%
24) Chloroform-d	7.563	84	140229	17.643	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	70.560%
26) 1,2-Dichloroethane-d4	8.228	65	75841	20.132	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	80.520%
32) Benzene-d6	8.199	84	285919	18.955	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	75.800%
36) 1,2-Dichloropropane-d6	9.210	67	96666	22.346	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.400%
41) Toluene-d8	10.269	98	277185	20.074	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	80.280%
43) trans-1,3-Dichloroprop...	10.522	79	33689	17.092	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	68.360%
47) 2-Hexanone-d5	10.875	63	37498	54.274	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.540%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	84795	21.988	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	87.960%
66) 1,2-Dichlorobenzene-d4	13.516	152	155863	31.155	ug/L	-0.30
Spiked Amount	25.000	Range	75 - 120	Recovery	=	124.640%#
Target Compounds						
					Qvalue	
13) Acetone	4.016	43	5356	4.141	ug/L	93
14) Carbon disulfide	4.264	76	78074	6.183	ug/L	99
16) Methylene chloride	4.799	84	18700	3.163	ug/L	81
17) trans-1,2-Dichloroethene	5.299	96	4227	0.995	ug/L #	73
20) cis-1,2-Dichloroethene	7.075	96	3329	0.685	ug/L	80
22) 2-Butanone	7.093	43	1586	1.016	ug/L	78
25) Chloroform	7.599	83	2505	0.313	ug/L	75
29) Cyclohexane	7.881	56	88771	17.284	ug/L #	71
33) Benzene	8.246	78	22270	1.357	ug/L	100
34) Trichloroethene	9.028	95	23430	5.386	ug/L	94
35) Methylcyclohexane	9.269	83	135908	20.258	ug/L	91
38) Bromodichloromethane	9.569	83	1928	0.338	ug/L #	26
42) Toluene	10.334	91	75985	4.276	ug/L	94
45) 1,1,2-Trichloroethane	10.710	97	67394	19.246	ug/L #	18
48) 2-Hexanone	10.887	43	142985	81.526	ug/L #	23
49) Dibromochloromethane	10.893	129	1703	0.416	ug/L #	40
50) 1,2-Dibromoethane	11.169	107	1442	0.417	ug/L #	1
52) Ethylbenzene	11.681	91	312826	16.267	ug/L	99
53) m,p-Xylene	11.798	106	119951	16.153	ug/L	92

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

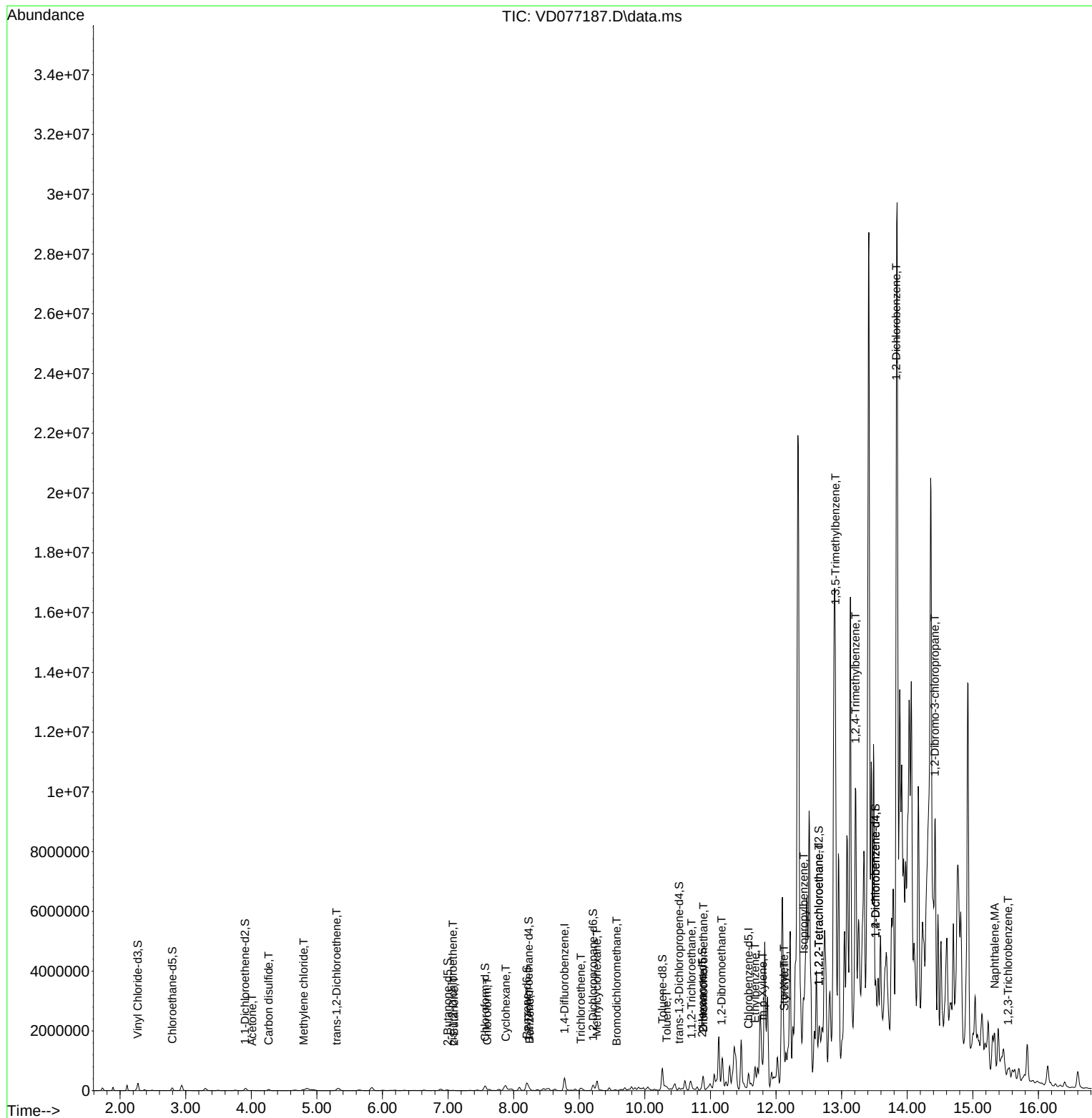
54) o-Xylene	12.122	106	30379	4.238	ug/L	89
55) Styrene	12.128	104	4627	0.361	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.651	83	29423	7.144	ug/L #	57
60) Isopropylbenzene	12.422	105	549726	27.365	ug/L	97
62) 1,3,5-Trimethylbenzene	12.904	105	55797	3.591	ug/L	99
63) 1,2,4-Trimethylbenzene	13.210	105	4157882	273.150	ug/L	98
67) 1,2-Dichlorobenzene	13.834	146	51998	5.907	ug/L #	1
68) 1,2-Dibromo-3-chloropr...	14.422	75	41849	67.260	ug/L #	1
71) Naphthalene	15.334	128	1132880	104.981	ug/L	99
72) 1,2,3-Trichlorobenzene	15.539	180	2484	0.501	ug/L #	1

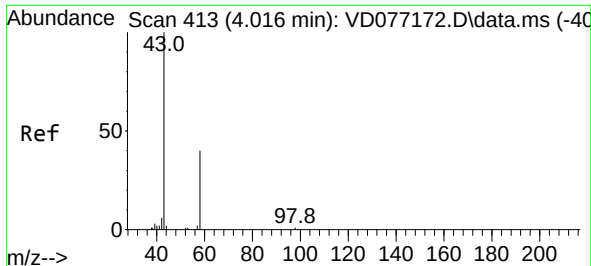
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 4.141 ug/L

RT: 4.016 min Scan# 413

Delta R.T. 0.000 min

Lab File: VD077187.D

Acq: 21 Sep 2023 18:10

Instrument :

MSVOA_D

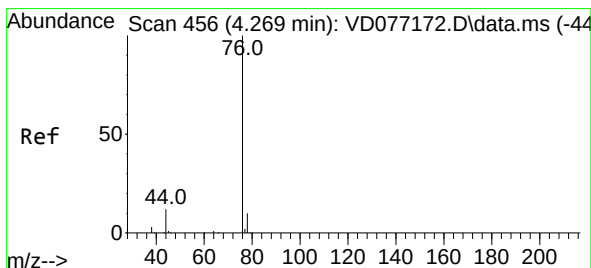
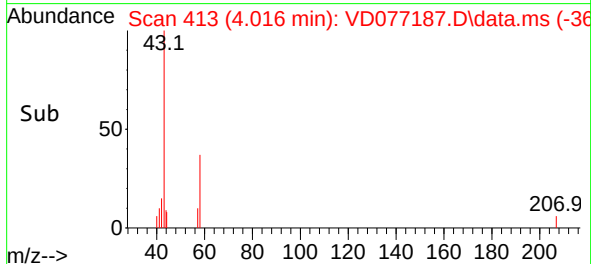
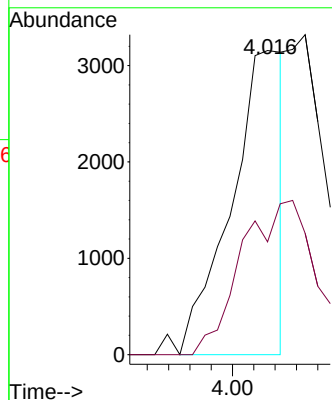
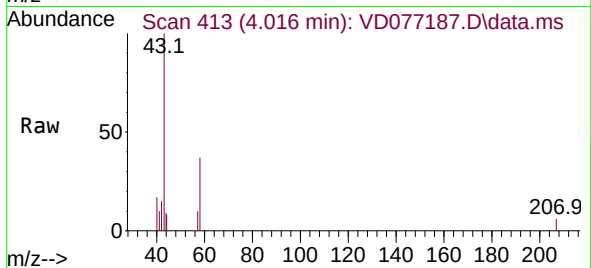
ClientSampleId :

Tgt Ion: 43 Resp: 5356

Ion Ratio Lower Upper

43 100

58 31.8 0.0 71.8



#14

Carbon disulfide

Concen: 6.183 ug/L

RT: 4.264 min Scan# 455

Delta R.T. -0.006 min

Lab File: VD077187.D

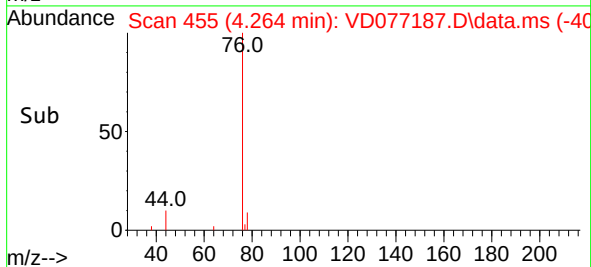
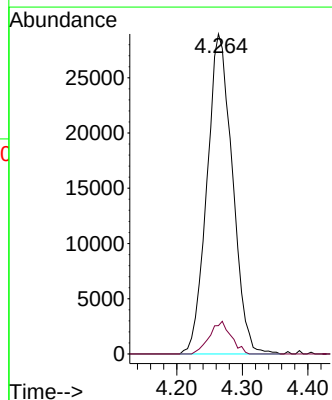
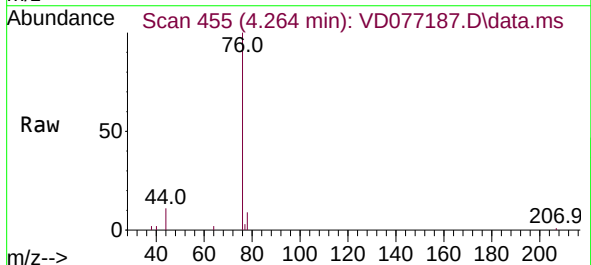
Acq: 21 Sep 2023 18:10

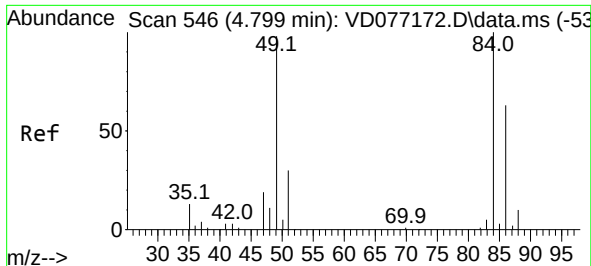
Tgt Ion: 76 Resp: 78074

Ion Ratio Lower Upper

76 100

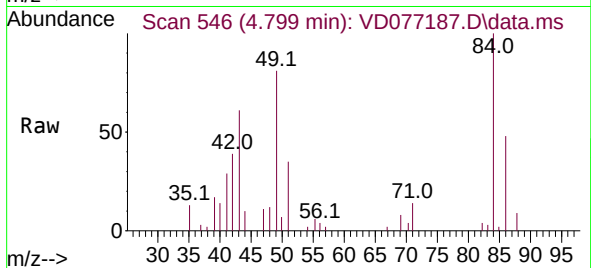
78 8.9 7.5 11.3



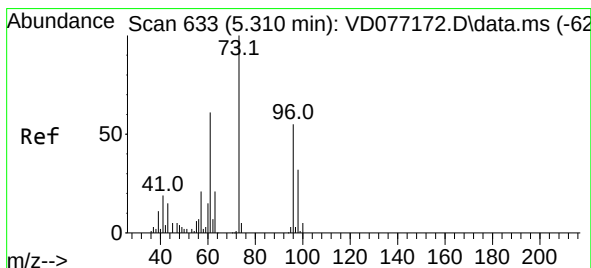
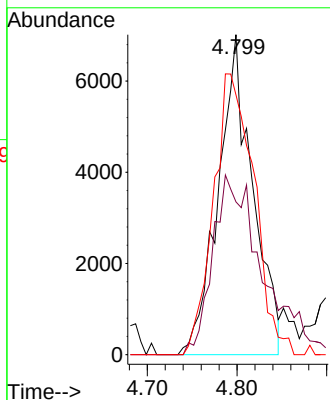
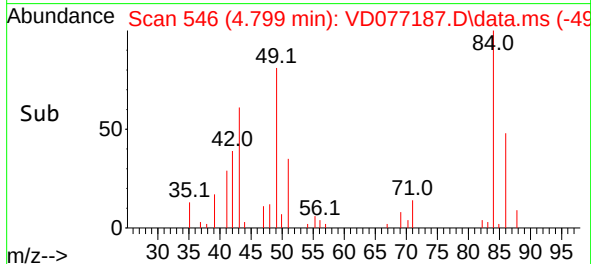


#16
Methylene chloride
Concen: 3.163 ug/L
RT: 4.799 min Scan# 54
Delta R.T. 0.000 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

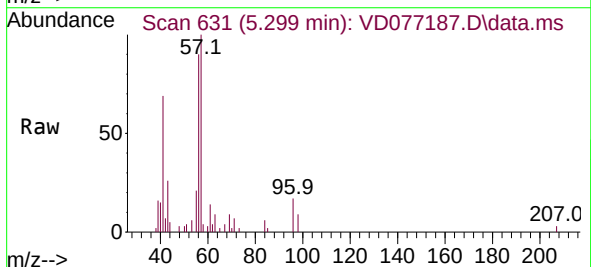
Instrument :
MSVOA_D
ClientSampleId :



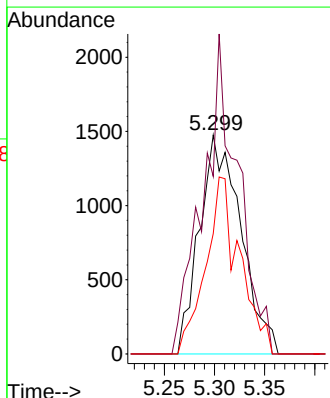
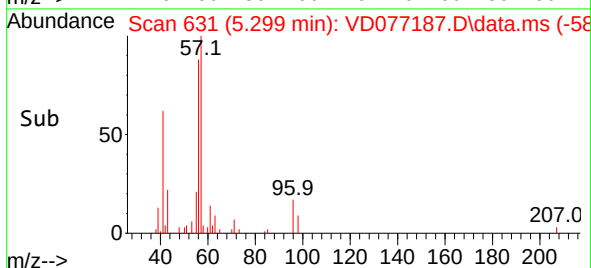
Tgt Ion: 84 Resp: 18700
Ion Ratio Lower Upper
84 100
86 47.8 45.3 84.1
49 81.2 69.2 128.6

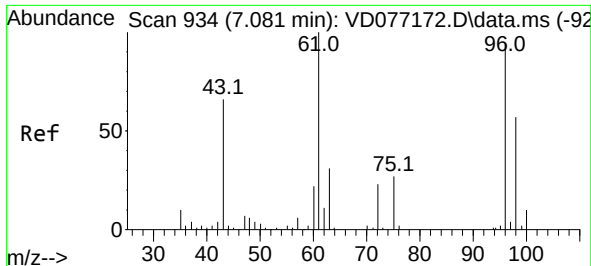


#17
trans-1,2-Dichloroethene
Concen: 0.995 ug/L
RT: 5.299 min Scan# 631
Delta R.T. -0.012 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10



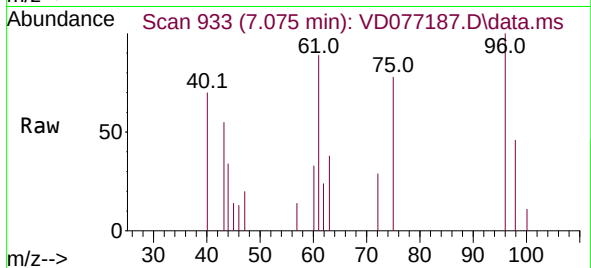
Tgt Ion: 96 Resp: 4227
Ion Ratio Lower Upper
96 100
61 81.2 85.1 158.1#
98 55.0 43.7 81.1



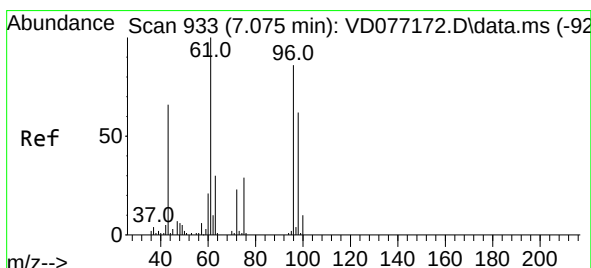
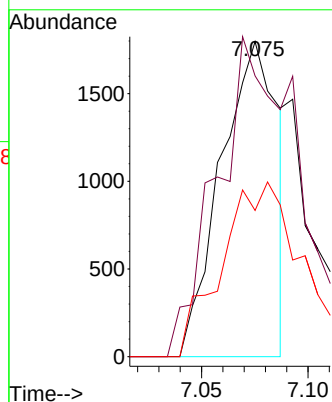
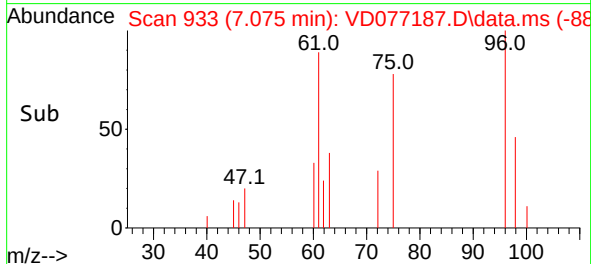


#20
cis-1,2-Dichloroethene
Concen: 0.685 ug/L
RT: 7.075 min Scan# 91
Delta R.T. -0.006 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

Instrument :
MSVOA_D
ClientSampleId :

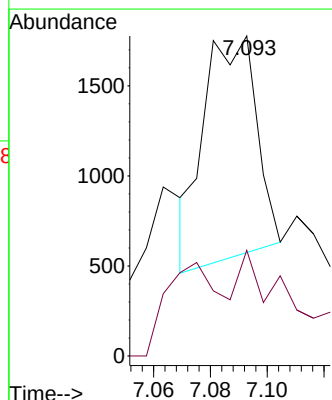
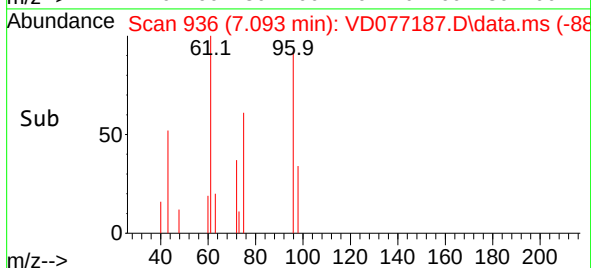
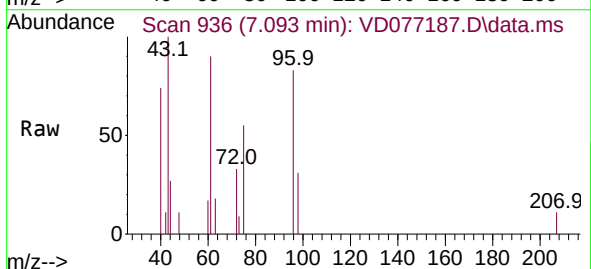


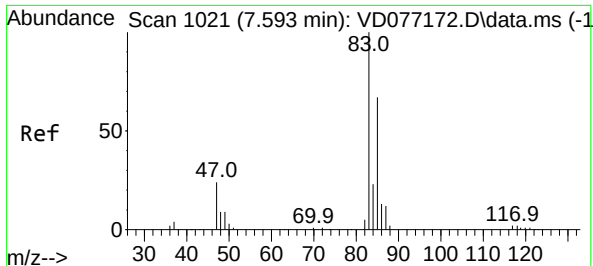
Tgt Ion: 96 Resp: 3329
Ion Ratio Lower Upper
96 100
61 89.1 75.5 140.1
98 46.4 45.8 85.0



#22
2-Butanone
Concen: 1.016 ug/L
RT: 7.093 min Scan# 936
Delta R.T. 0.018 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

Tgt Ion: 43 Resp: 1586
Ion Ratio Lower Upper
43 100
72 19.7 16.0 48.0





#25

Chloroform

Concen: 0.313 ug/L

RT: 7.599 min Scan# 1021

Delta R.T. 0.006 min

Lab File: VD077187.D

Acq: 21 Sep 2023 18:10

Instrument :

MSVOA_D

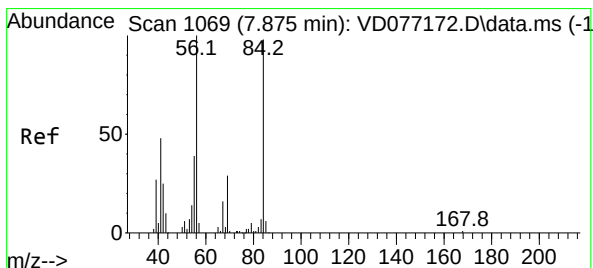
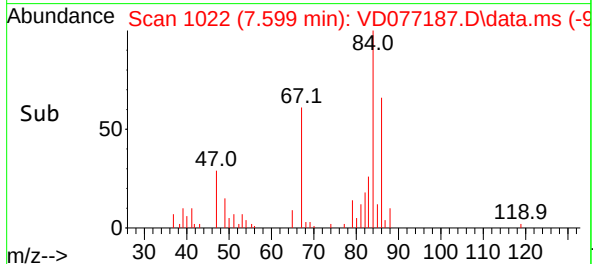
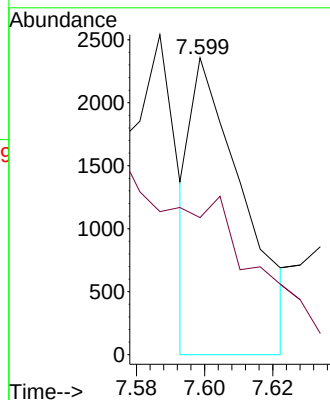
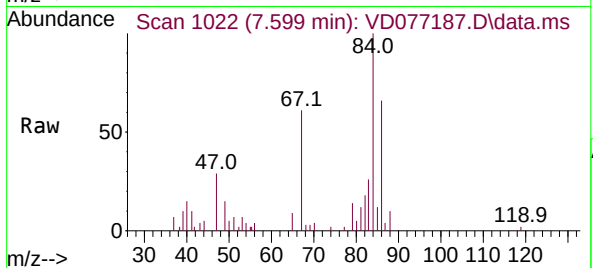
ClientSampleId :

Tgt Ion: 83 Resp: 2505

Ion Ratio Lower Upper

83 100

85 46.2 46.2 85.8



#29

Cyclohexane

Concen: 17.284 ug/L

RT: 7.881 min Scan# 1070

Delta R.T. 0.006 min

Lab File: VD077187.D

Acq: 21 Sep 2023 18:10

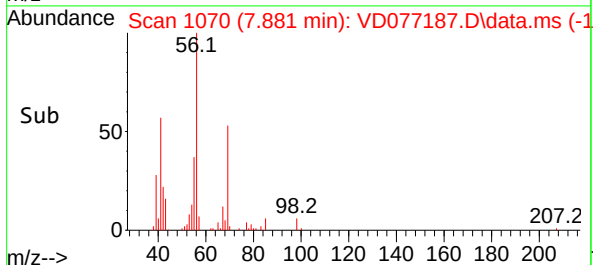
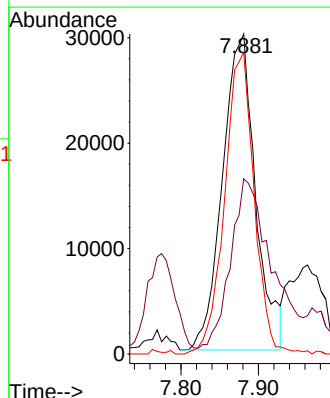
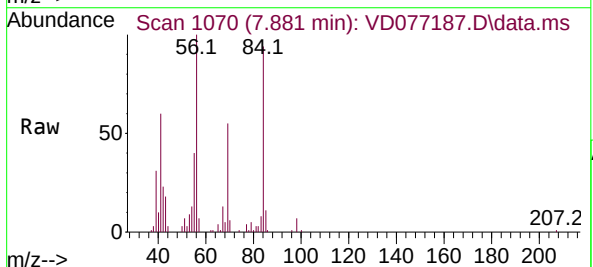
Tgt Ion: 56 Resp: 88771

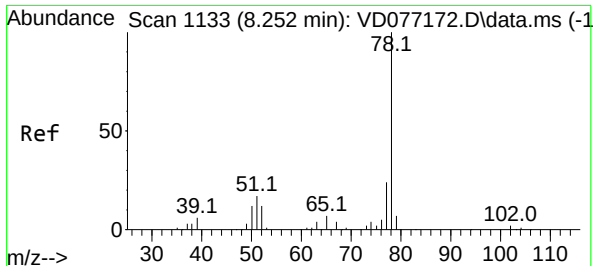
Ion Ratio Lower Upper

56 100

69 66.7 25.5 38.3#

84 84.9 82.6 124.0

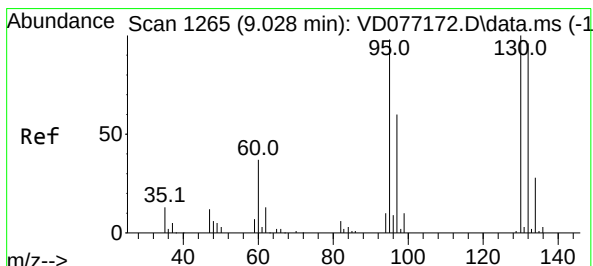
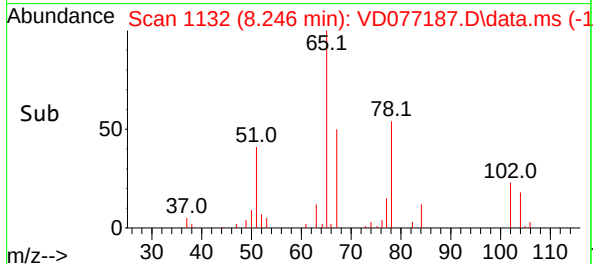
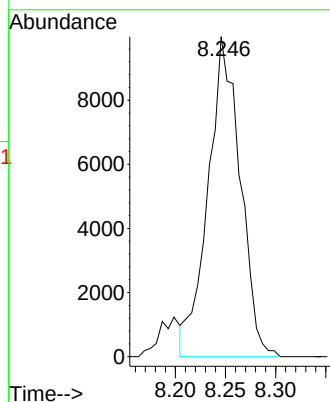
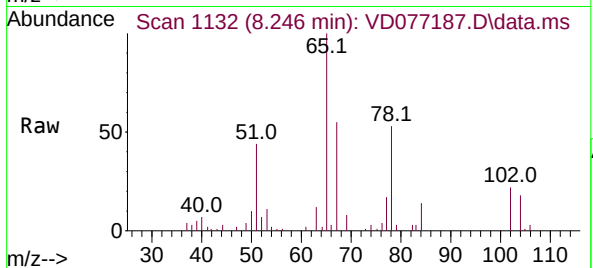




#33
Benzene
Concen: 1.357 ug/L
RT: 8.246 min Scan# 1133
Delta R.T. -0.006 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

Instrument :
MSVOA_D
ClientSampleId :

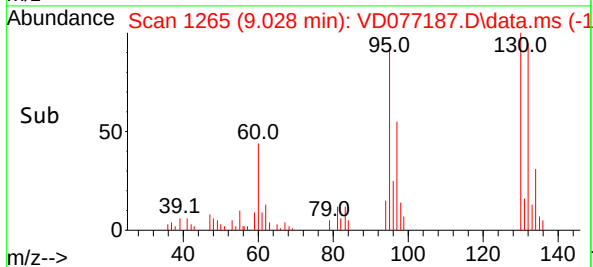
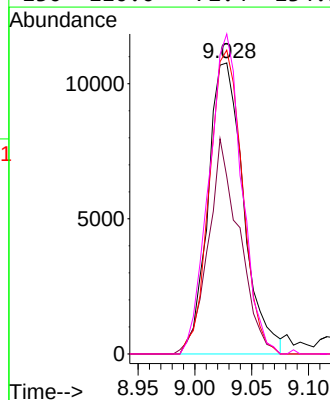
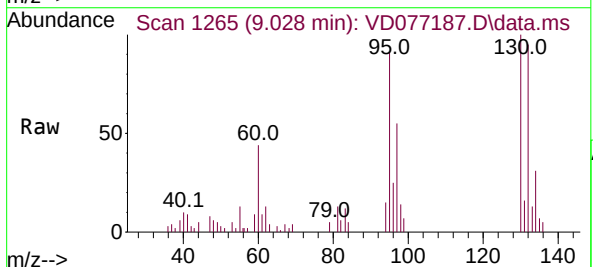
Tgt Ion: 78 Resp: 22270

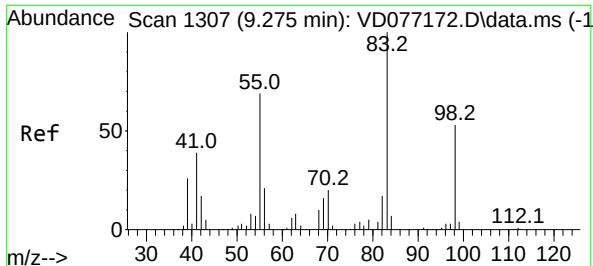


#34
Trichloroethene
Concen: 5.386 ug/L
RT: 9.028 min Scan# 1265
Delta R.T. 0.000 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

Tgt Ion: 95 Resp: 23430

Ion	Ratio	Lower	Upper
95	100		
97	60.9	46.4	86.2
132	104.4	70.1	130.1
130	110.0	72.4	134.5

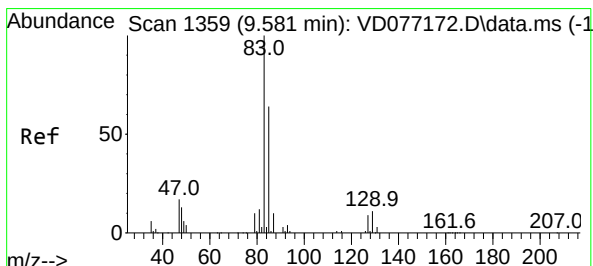
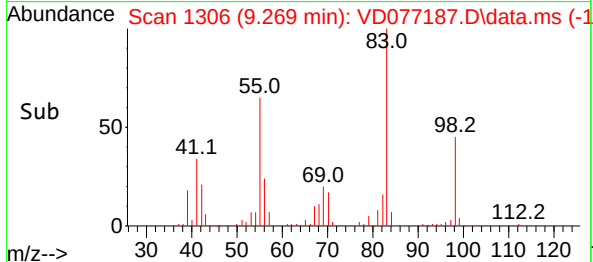
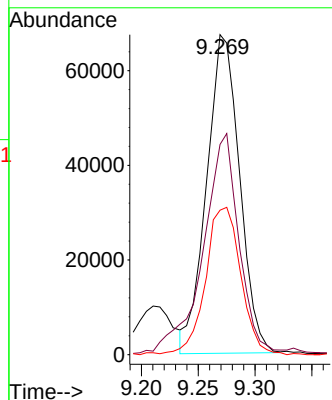
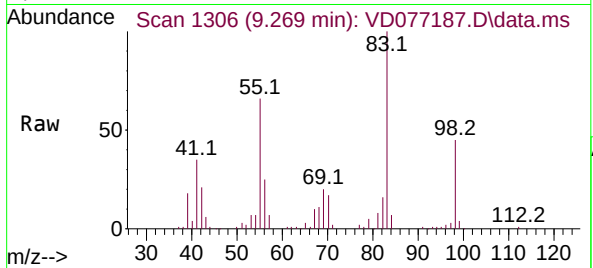




#35
Methylcyclohexane
Concen: 20.258 ug/L
RT: 9.269 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

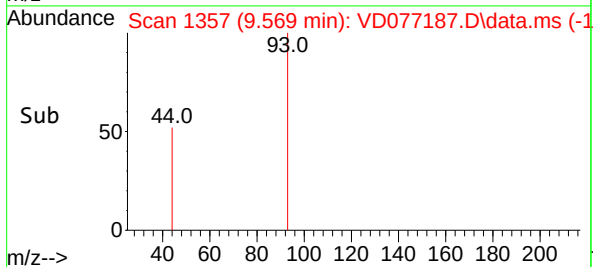
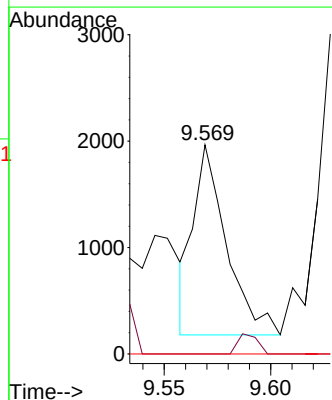
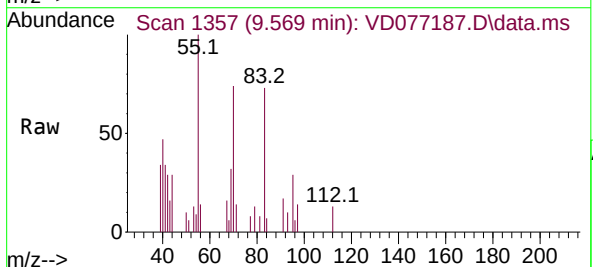
Instrument :
MSVOA_D
ClientSampleId :

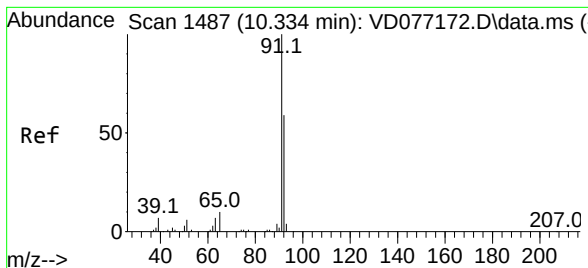
Tgt Ion: 83 Resp: 135908
Ion Ratio Lower Upper
83 100
55 76.1 51.5 77.3
98 49.4 40.7 61.1



#38
Bromodichloromethane
Concen: 0.338 ug/L
RT: 9.569 min Scan# 1357
Delta R.T. -0.012 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

Tgt Ion: 83 Resp: 1928
Ion Ratio Lower Upper
83 100
85 0.0 44.0 81.6#
127 0.0 7.5 11.3#





#42

Toluene

Concen: 4.276 ug/L

RT: 10.334 min Scan# 1487

Delta R.T. 0.000 min

Lab File: VD077187.D

Acq: 21 Sep 2023 18:10

Instrument :

MSVOA_D

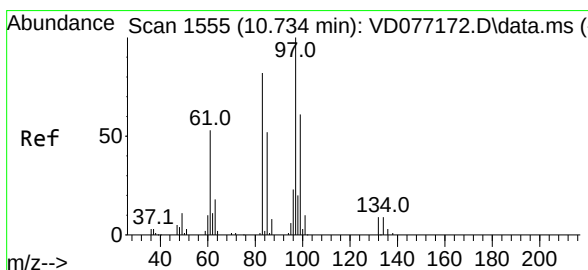
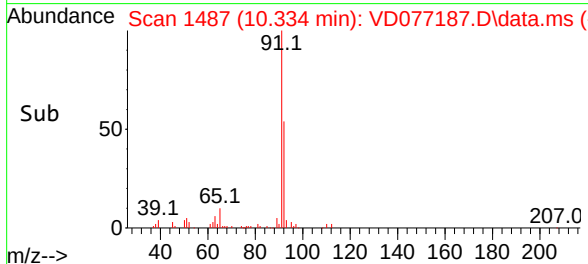
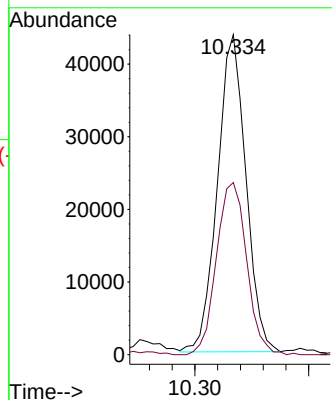
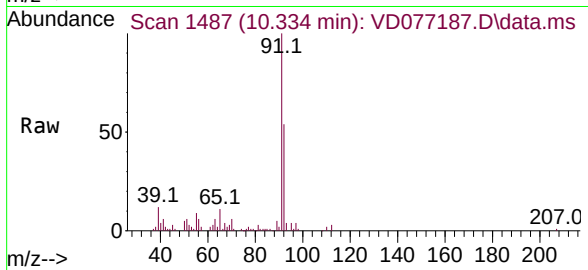
ClientSampleId :

Tgt Ion: 91 Resp: 75985

Ion Ratio Lower Upper

91 100

92 53.8 40.8 75.8



#45

1,1,2-Trichloroethane

Concen: 19.246 ug/L

RT: 10.710 min Scan# 1551

Delta R.T. -0.024 min

Lab File: VD077187.D

Acq: 21 Sep 2023 18:10

Tgt Ion: 97 Resp: 67394

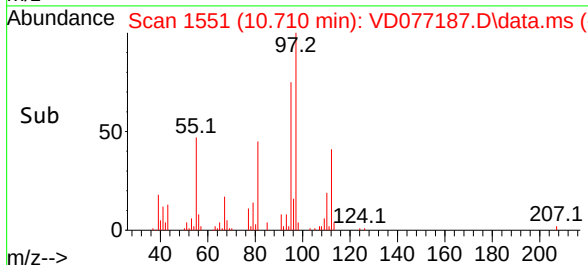
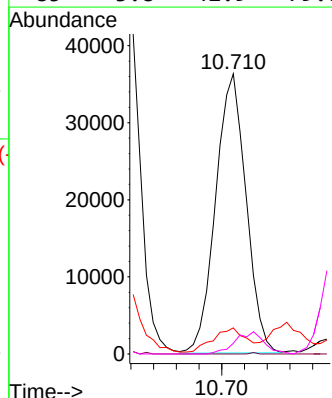
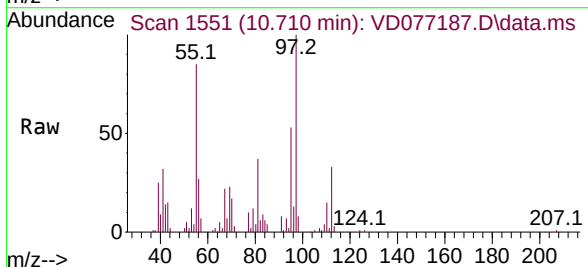
Ion Ratio Lower Upper

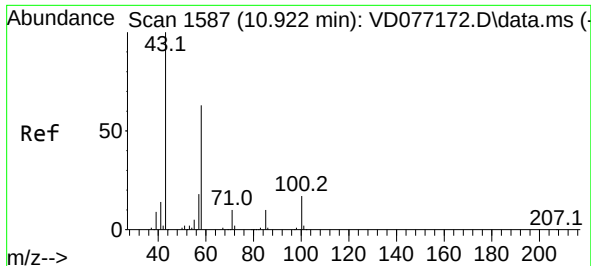
97 100

99 0.0 46.1 85.5#

83 9.3 64.3 119.3#

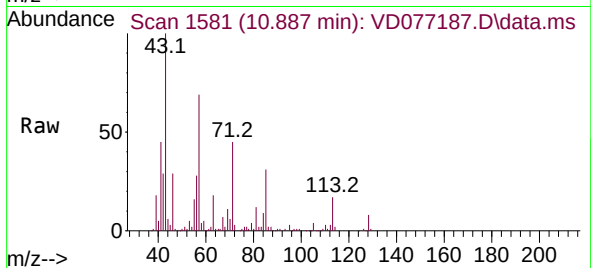
85 3.8 42.9 79.7#



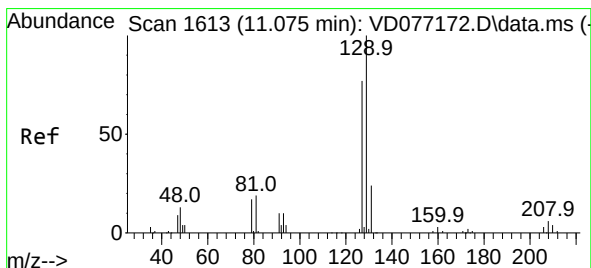
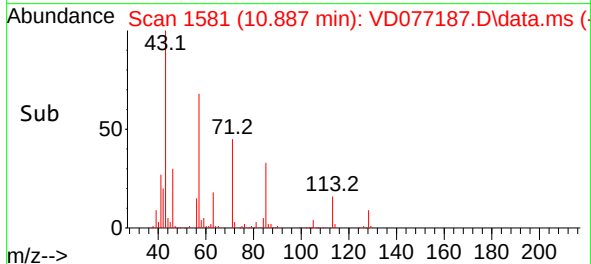
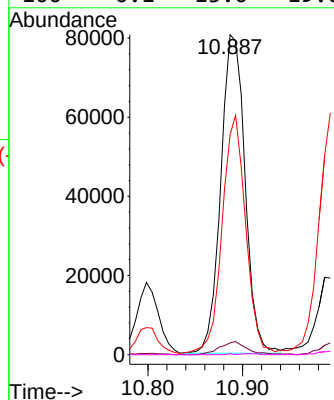


#48
2-Hexanone
Concen: 81.526 ug/L
RT: 10.887 min Scan# 1581
Delta R.T. -0.035 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

Instrument :
MSVOA_D
ClientSampleId :

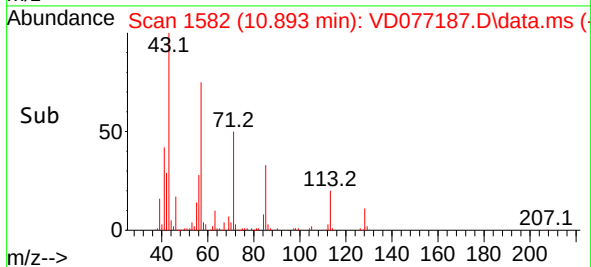
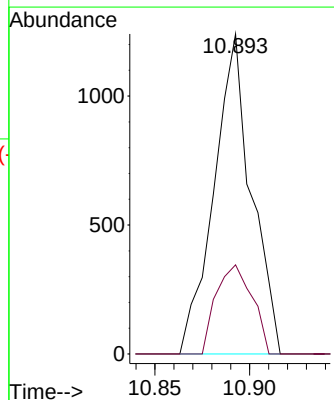
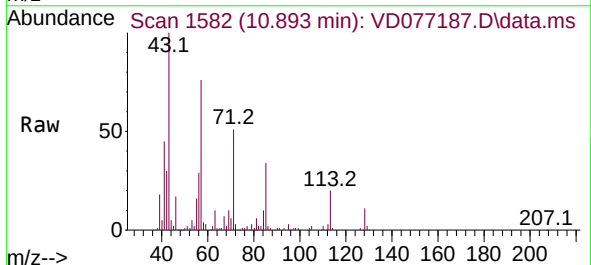


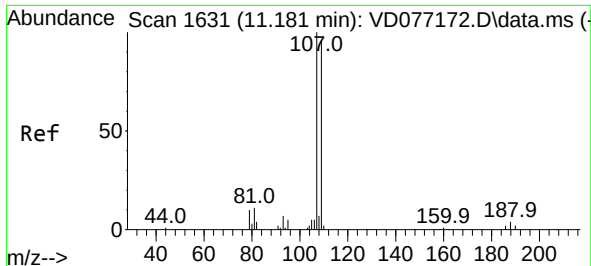
Tgt Ion: 43 Resp: 142985
Ion Ratio Lower Upper
43 100
58 4.7 50.6 75.8#
57 72.2 16.6 24.8#
100 0.1 13.0 19.6#



#49
Dibromochloromethane
Concen: 0.416 ug/L
RT: 10.893 min Scan# 1582
Delta R.T. -0.182 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

Tgt Ion: 129 Resp: 1703
Ion Ratio Lower Upper
129 100
127 27.9 56.6 105.2#

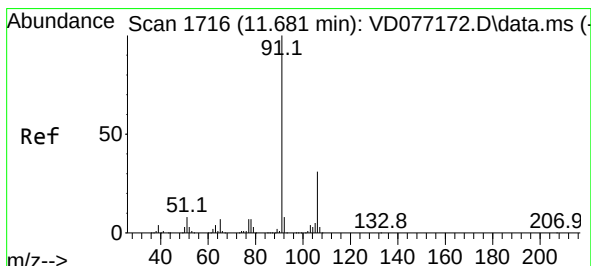
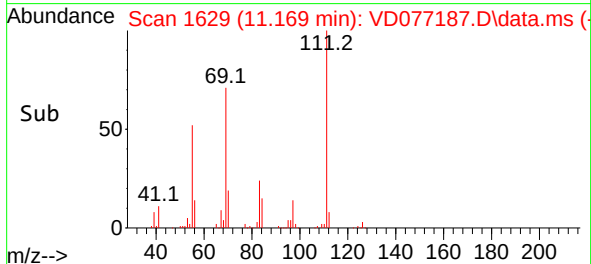
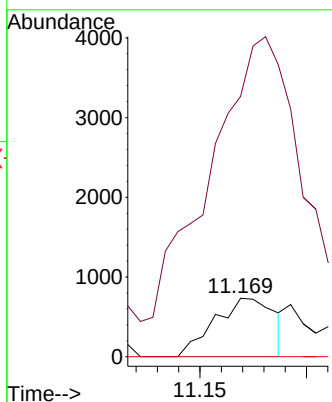
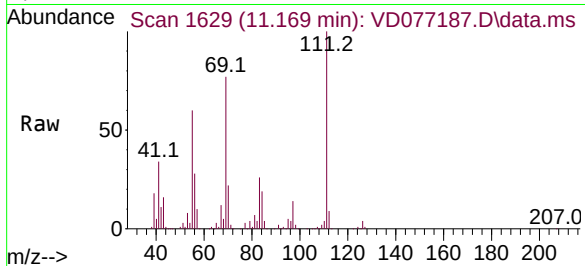




#50
 1,2-Dibromoethane
 Concen: 0.417 ug/L
 RT: 11.169 min Scan# 1629
 Delta R.T. -0.012 min
 Lab File: VD077187.D
 Acq: 21 Sep 2023 18:10

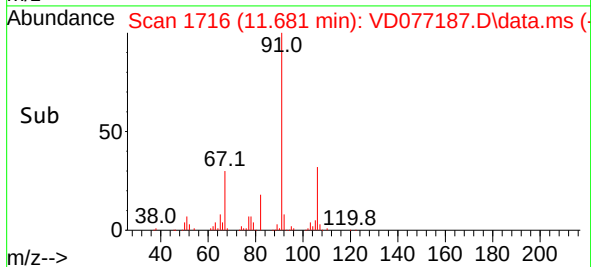
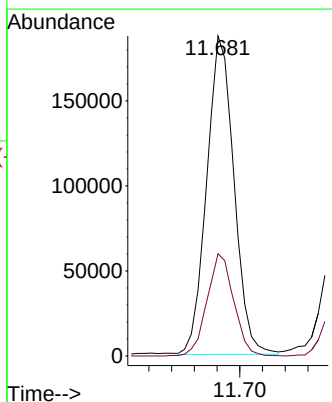
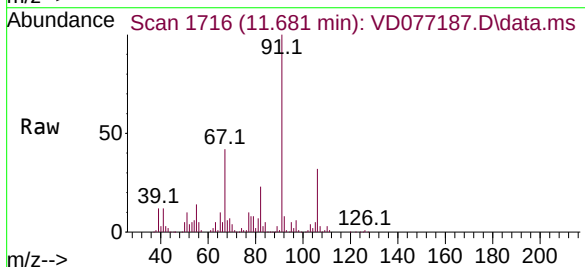
Instrument :
 MSVOA_D
 ClientSampleId :

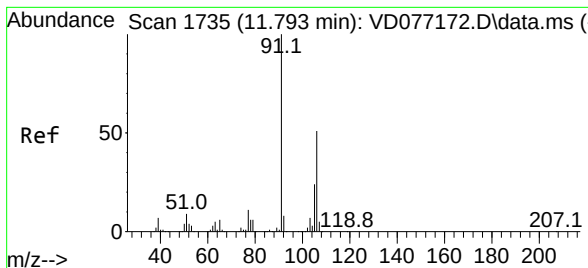
Tgt Ion:107 Resp: 1442
 Ion Ratio Lower Upper
 107 100
 109 445.0 62.4 116.0#
 188 0.0 3.0 4.4#



#52
 Ethylbenzene
 Concen: 16.267 ug/L
 RT: 11.681 min Scan# 1716
 Delta R.T. 0.000 min
 Lab File: VD077187.D
 Acq: 21 Sep 2023 18:10

Tgt Ion: 91 Resp: 312826
 Ion Ratio Lower Upper
 91 100
 106 31.9 22.1 41.1

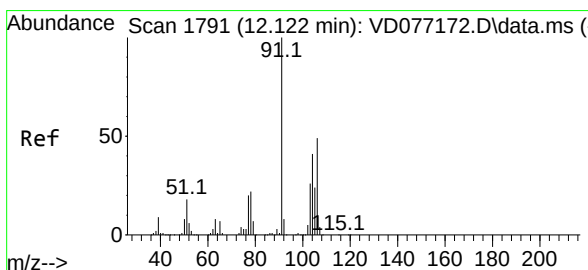
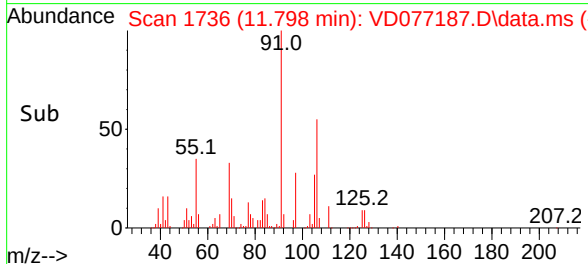
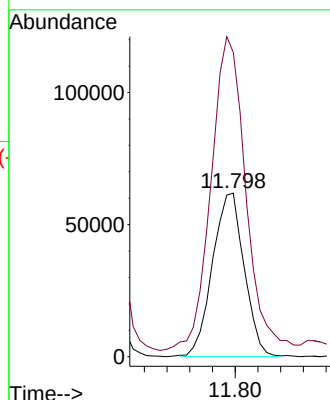
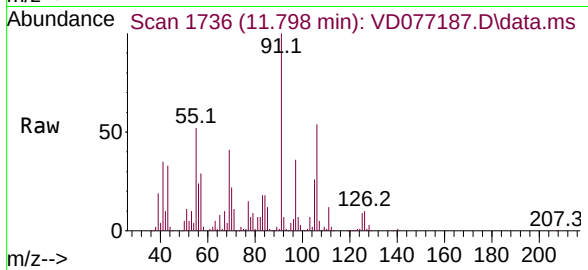




#53
m,p-Xylene
Concen: 16.153 ug/L
RT: 11.798 min Scan# 1736
Delta R.T. 0.006 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

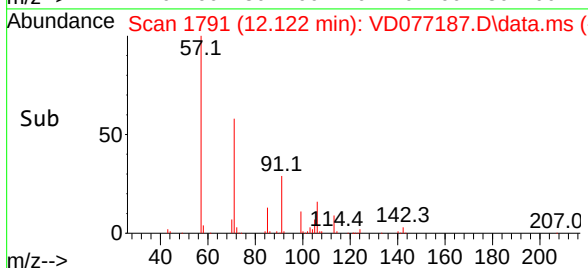
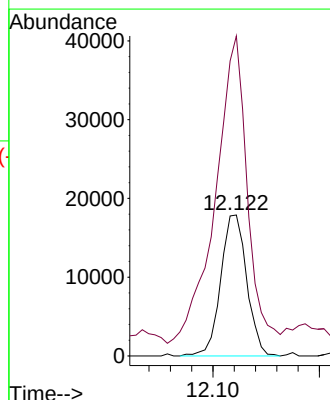
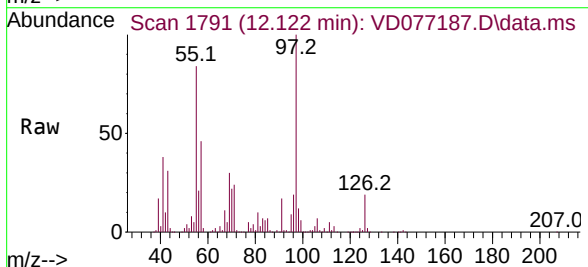
Instrument :
MSVOA_D
ClientSampleId :

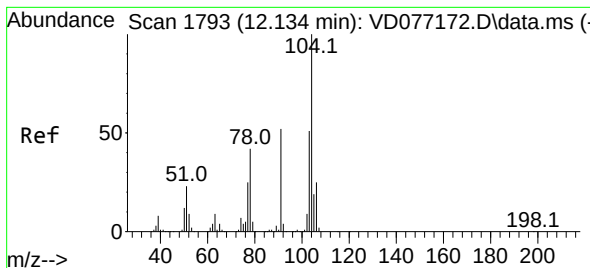
Tgt Ion:106 Resp: 119951
Ion Ratio Lower Upper
106 100
91 186.1 138.2 256.6



#54
o-Xylene
Concen: 4.238 ug/L
RT: 12.122 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

Tgt Ion:106 Resp: 30379
Ion Ratio Lower Upper
106 100
91 226.9 146.9 272.7





#55

Styrene

Concen: 0.361 ug/L

RT: 12.128 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD077187.D

Acq: 21 Sep 2023 18:10

Instrument :

MSVOA_D

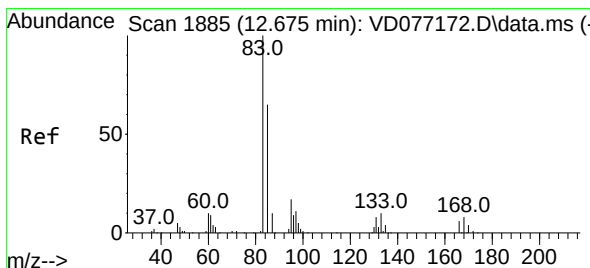
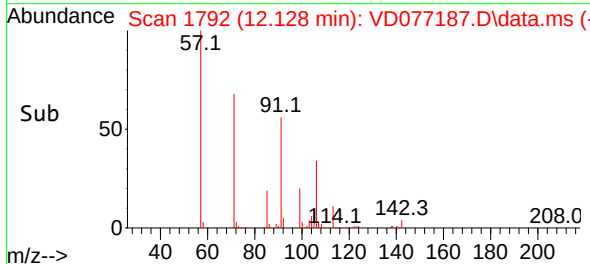
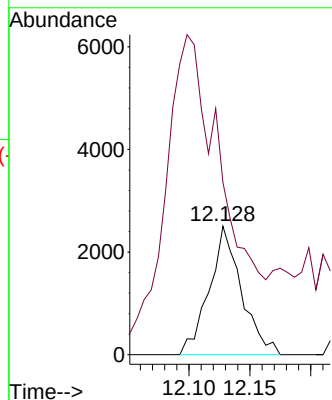
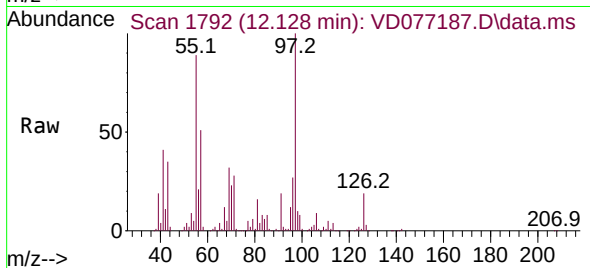
ClientSampleId :

Tgt Ion:104 Resp: 4627

Ion Ratio Lower Upper

104 100

78 134.2 27.8 51.6#



#57

1,1,2,2-Tetrachloroethane

Concen: 7.144 ug/L

RT: 12.651 min Scan# 1881

Delta R.T. -0.023 min

Lab File: VD077187.D

Acq: 21 Sep 2023 18:10

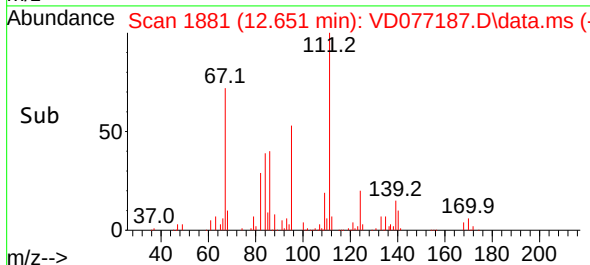
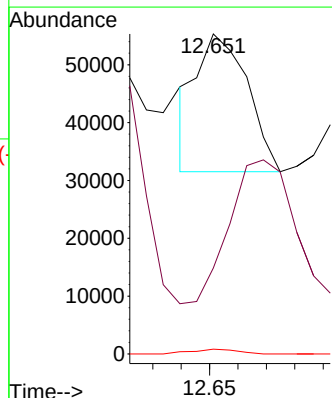
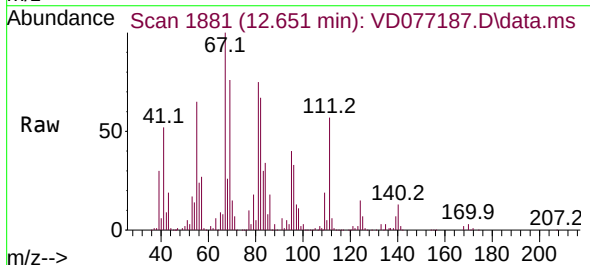
Tgt Ion: 83 Resp: 29423

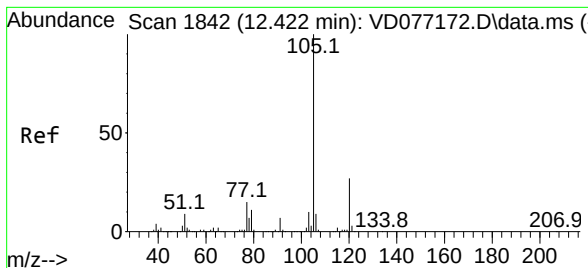
Ion Ratio Lower Upper

83 100

85 26.8 43.6 81.0#

131 1.5 7.8 11.8#





#60

Isopropylbenzene

Concen: 27.365 ug/L

RT: 12.422 min Scan# 1842

Delta R.T. 0.000 min

Lab File: VD077187.D

Acq: 21 Sep 2023 18:10

Instrument :

MSVOA_D

ClientSampleId :

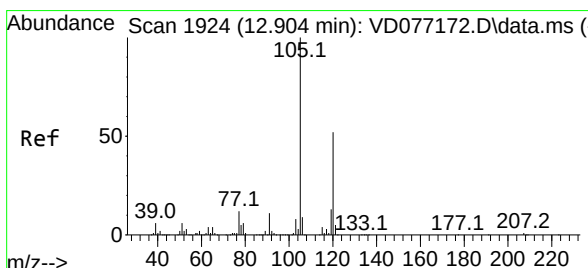
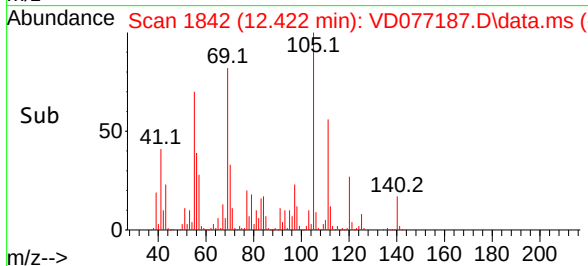
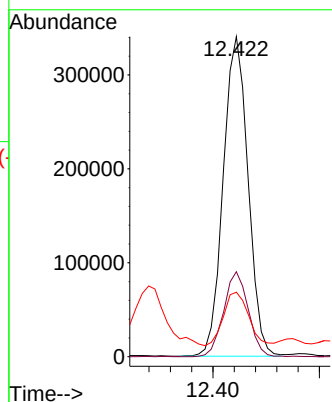
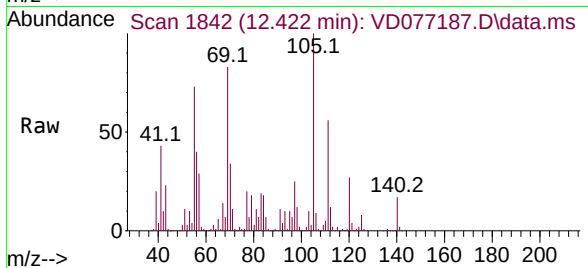
Tgt Ion:105 Resp: 549726

Ion Ratio Lower Upper

105 100

120 26.4 21.8 32.6

77 16.9 11.9 17.9



#62

1,3,5-Trimethylbenzene

Concen: 3.591 ug/L

RT: 12.904 min Scan# 1924

Delta R.T. 0.000 min

Lab File: VD077187.D

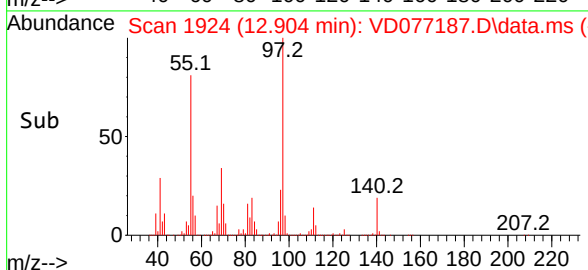
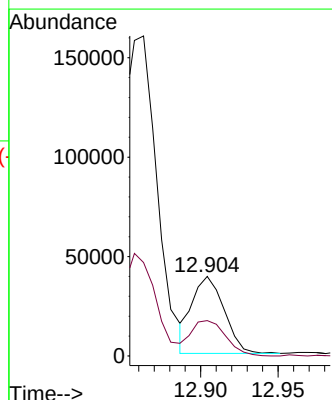
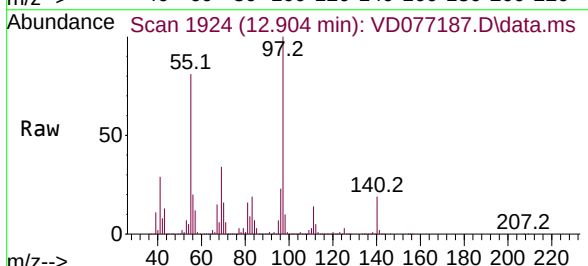
Acq: 21 Sep 2023 18:10

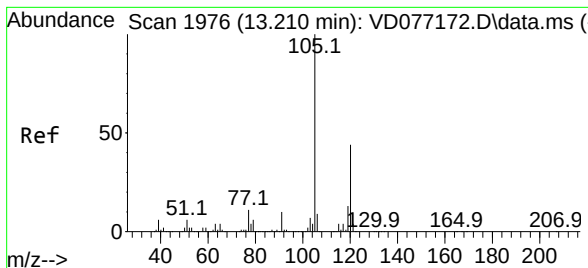
Tgt Ion:105 Resp: 55797

Ion Ratio Lower Upper

105 100

120 49.8 40.2 60.2

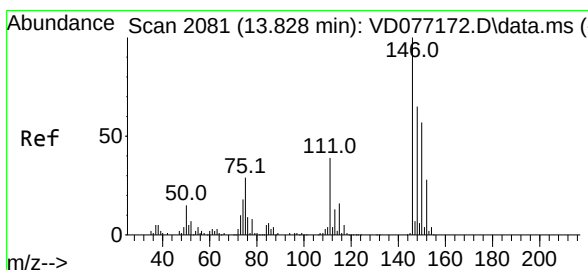
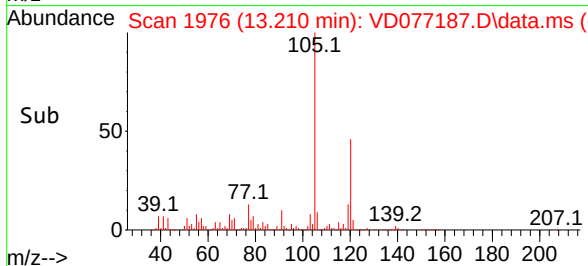
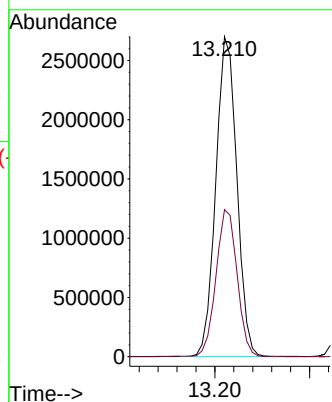
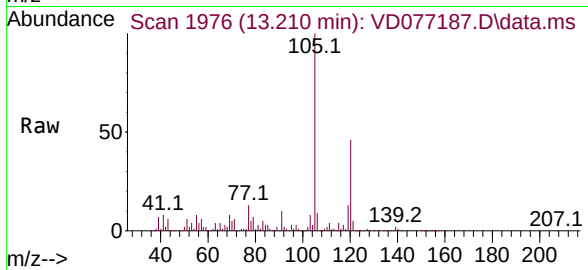




#63
 1,2,4-Trimethylbenzene
 Concen: 273.150 ug/L
 RT: 13.210 min Scan# 1976
 Delta R.T. 0.000 min
 Lab File: VD077187.D
 Acq: 21 Sep 2023 18:10

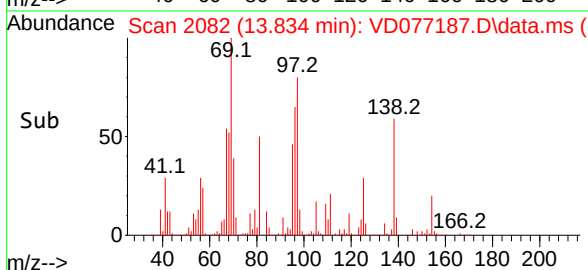
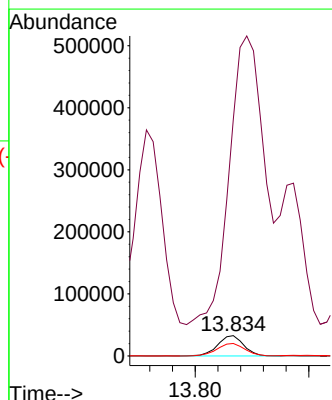
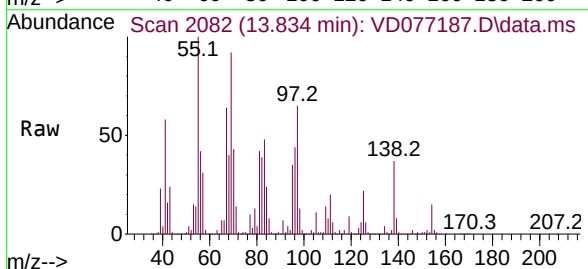
Instrument :
 MSVOA_D
 ClientSampleId :

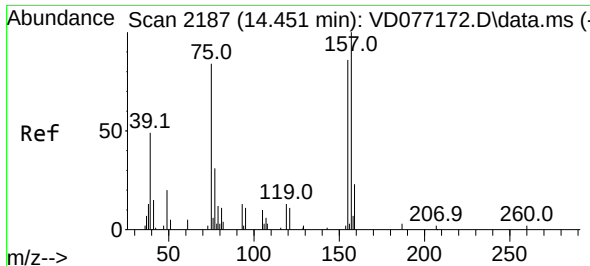
Tgt Ion:105 Resp: 4157882
 Ion Ratio Lower Upper
 105 100
 120 46.2 37.8 56.8



#67
 1,2-Dichlorobenzene
 Concen: 5.907 ug/L
 RT: 13.834 min Scan# 2082
 Delta R.T. 0.006 min
 Lab File: VD077187.D
 Acq: 21 Sep 2023 18:10

Tgt Ion:146 Resp: 51998
 Ion Ratio Lower Upper
 146 100
 111 1161.1 31.8 47.6#
 148 61.5 53.0 79.4

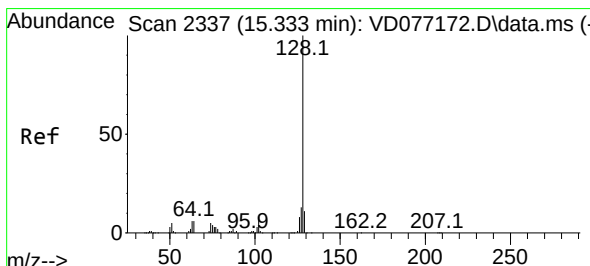
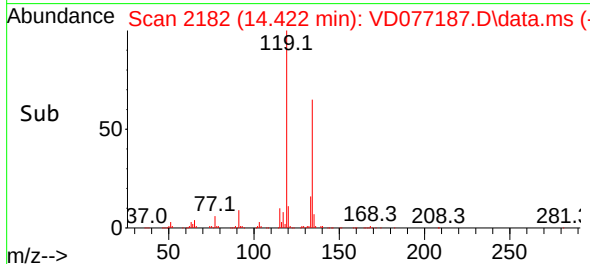
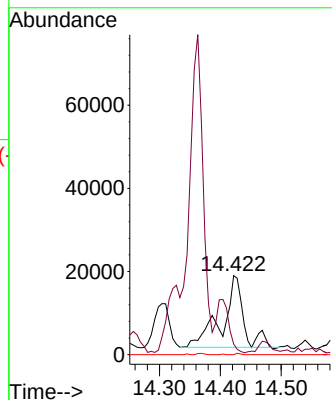
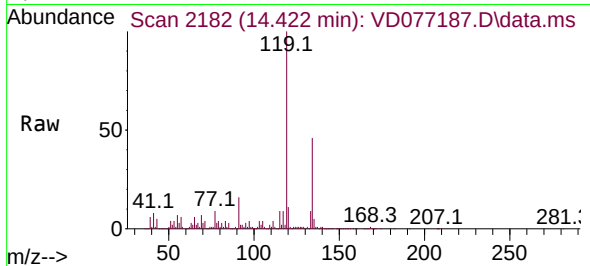




#68
1,2-Dibromo-3-chloropropane
Concen: 67.260 ug/L
RT: 14.422 min Scan# 2187
Delta R.T. -0.029 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

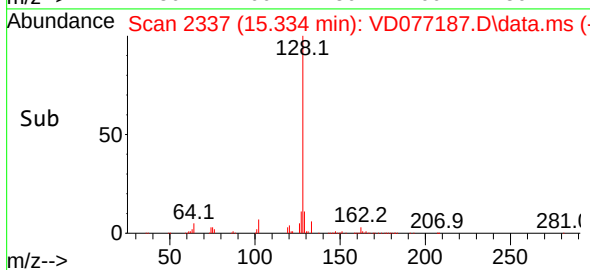
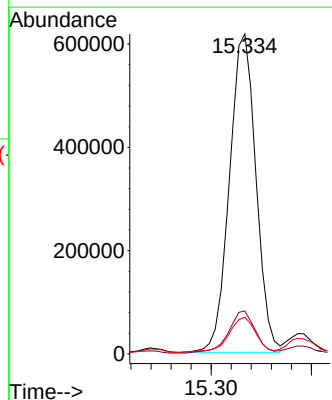
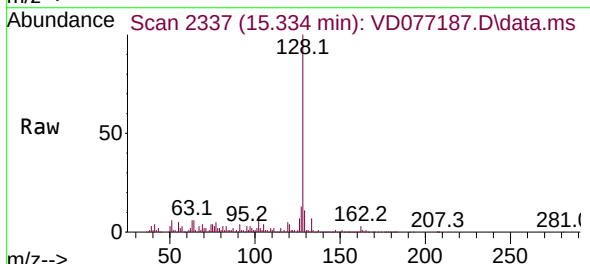
Instrument :
MSVOA_D
ClientSampleId :

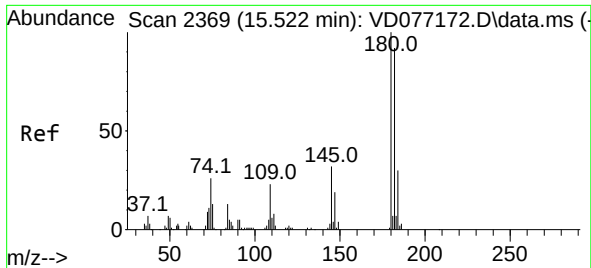
Tgt Ion: 75 Resp: 41849
Ion Ratio Lower Upper
75 100
155 13.6 79.0 118.6#
157 0.0 100.2 150.4#



#71
Naphthalene
Concen: 104.981 ug/L
RT: 15.334 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VD077187.D
Acq: 21 Sep 2023 18:10

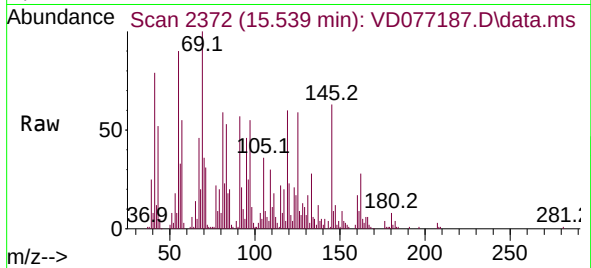
Tgt Ion:128 Resp: 1132880
Ion Ratio Lower Upper
128 100
127 13.2 10.6 16.0
129 11.6 8.6 13.0





#72
 1,2,3-Trichlorobenzene
 Concen: 0.501 ug/L
 RT: 15.539 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: VD077187.D
 Acq: 21 Sep 2023 18:10

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:180 Resp: 2484
 Ion Ratio Lower Upper
 180 100
 182 43.3 76.6 115.0#
 145 2717.6 25.4 38.2#

