

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092123\
 Data File : VD077175.D
 Acq On : 21 Sep 2023 12:43
 Operator : JC/SY
 Sample : 04527-02
 Misc : 5.703G/10.0ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 22 01:30:45 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	275866	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	272575	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	126028	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.275	65	147377	21.681	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.720%
7) Chloroethane-d5	2.799	69	133039	23.800	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.200%
11) 1,1-Dichloroethene-d2	3.911	65	36262	23.484	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	93.920%
21) 2-Butanone-d5	6.981	46	48136	56.211	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	112.420%
24) Chloroform-d	7.563	84	150645	19.957	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	79.840%
26) 1,2-Dichloroethane-d4	8.228	65	98669	27.579	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	110.320%
32) Benzene-d6	8.199	84	375514	24.943	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.760%
36) 1,2-Dichloropropane-d6	9.210	67	118415	27.428	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	109.720%
41) Toluene-d8	10.269	98	326619	23.701	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.800%
43) trans-1,3-Dichloroprop...	10.528	79	47398	24.095	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.360%
47) 2-Hexanone-d5	10.875	63	37878	54.932	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	109.860%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	52590	13.664	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	54.640%
66) 1,2-Dichlorobenzene-d4	13.816	152	103978	25.704	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.800%
Target Compounds						
					Qvalue	
13) Acetone	4.028	43	4515	3.675	ug/L	65
14) Carbon disulfide	4.269	76	36959	3.082	ug/L #	94
16) Methylene chloride	4.805	84	38821	6.914	ug/L	95
17) trans-1,2-Dichloroethene	5.311	96	2348	0.582	ug/L	79
19) 1,1-Dichloroethane	6.105	63	2589	0.381	ug/L #	86
20) cis-1,2-Dichloroethene	7.075	96	89498	19.381	ug/L	96
25) Chloroform	7.587	83	42427	5.587	ug/L	96
34) Trichloroethene	9.022	95	13282	3.059	ug/L	89
42) Toluene	10.328	91	7808	0.440	ug/L	98
46) Tetrachloroethene	10.810	164	108863	30.672	ug/L	96
49) Dibromochloromethane	10.810	129	95733	23.453	ug/L #	9
52) Ethylbenzene	11.681	91	6372	0.332	ug/L	96
53) m,p-Xylene	11.787	106	7825	1.056	ug/L	75
54) o-Xylene	12.116	106	4517	0.631	ug/L	82
57) 1,1,2,2-Tetrachloroethane	12.640	83	4242	1.032	ug/L #	59
60) Isopropylbenzene	12.416	105	4670	0.288	ug/L #	81
62) 1,3,5-Trimethylbenzene	12.898	105	21317	1.697	ug/L	100
63) 1,2,4-Trimethylbenzene	13.210	105	44715	3.633	ug/L	96
68) 1,2-Dibromo-3-chloropr...	14.498	75	2296	4.564	ug/L #	6

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Quant Title : SFAM01.0
QLast Update : Fri Sep 22 01:29:35 2023
Response via : Initial Calibration

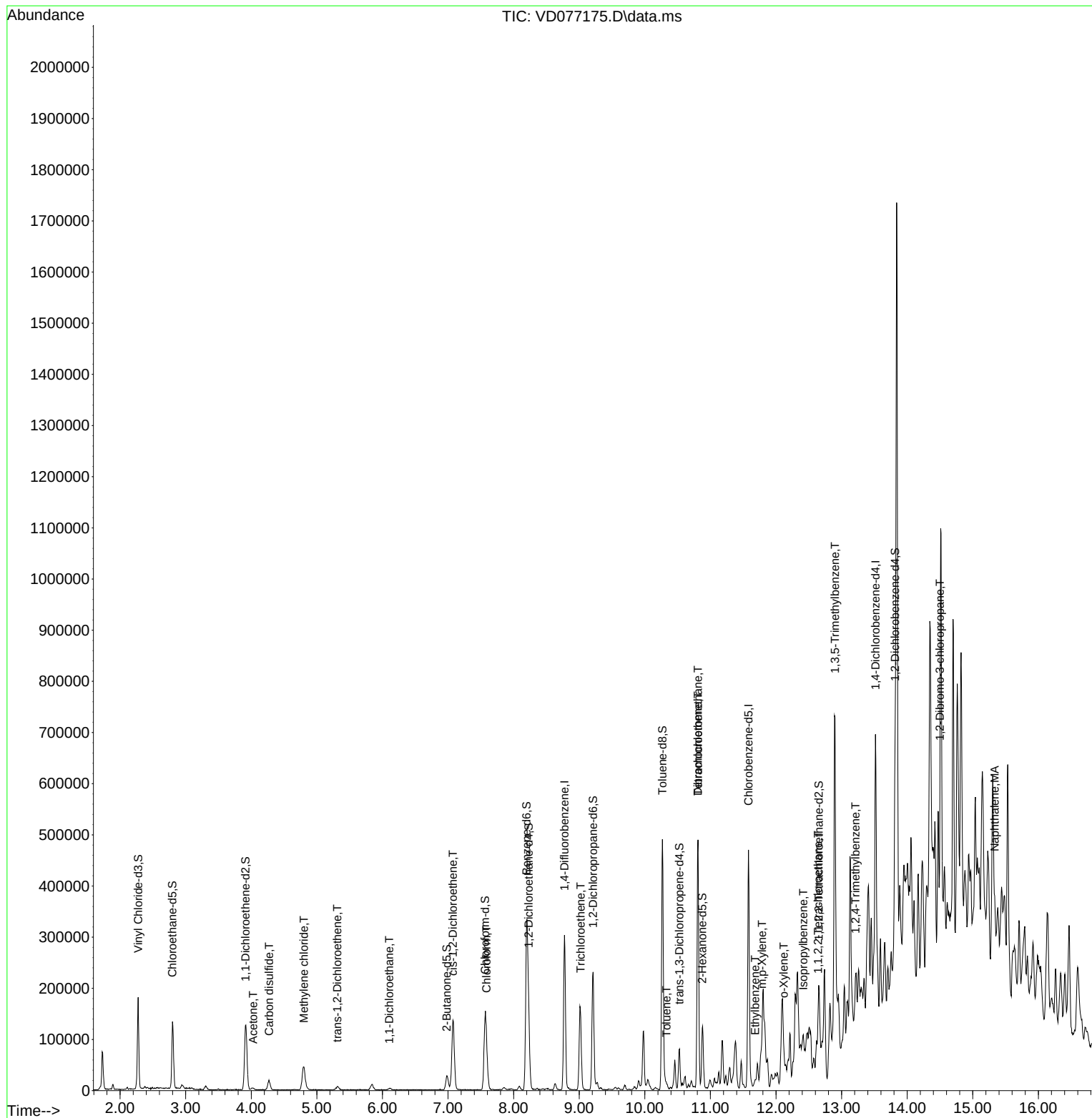
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) Naphthalene	15.334	128	72066	8.259	ug/L	# 92

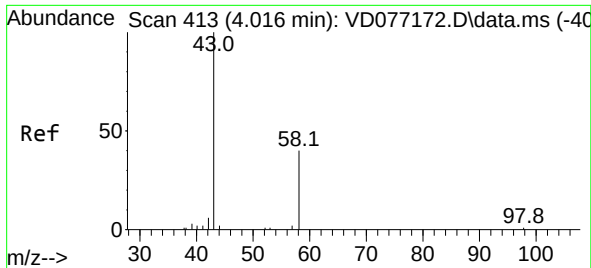
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 3.675 ug/L

RT: 4.028 min Scan# 413

Delta R.T. 0.012 min

Lab File: VD077175.D

Acq: 21 Sep 2023 12:43

Instrument :

MSVOA_D

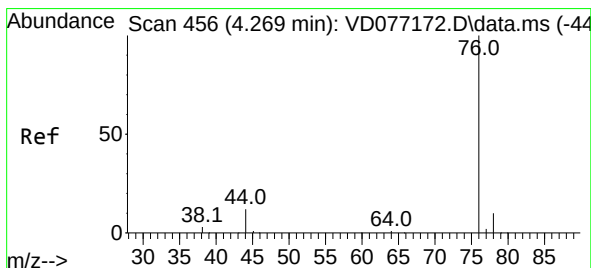
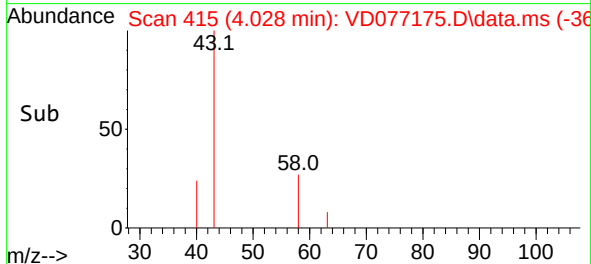
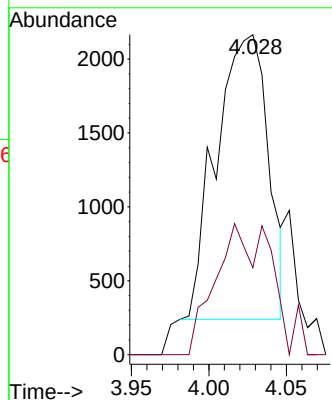
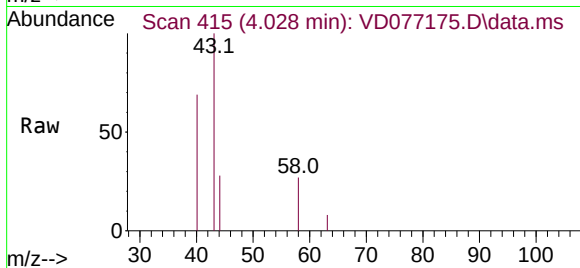
ClientSampleId :

Tgt Ion: 43 Resp: 4515

Ion Ratio Lower Upper

43 100

58 15.2 0.0 71.8



#14

Carbon disulfide

Concen: 3.082 ug/L

RT: 4.269 min Scan# 456

Delta R.T. 0.000 min

Lab File: VD077175.D

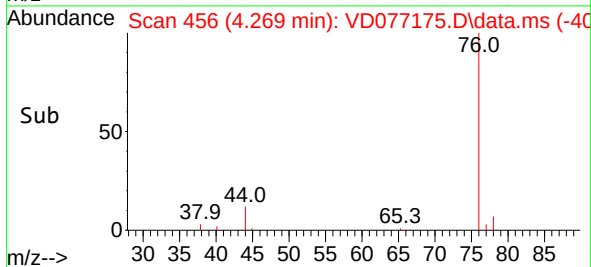
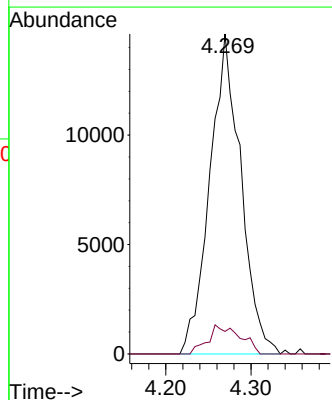
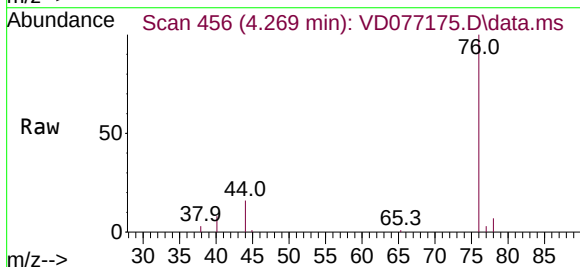
Acq: 21 Sep 2023 12:43

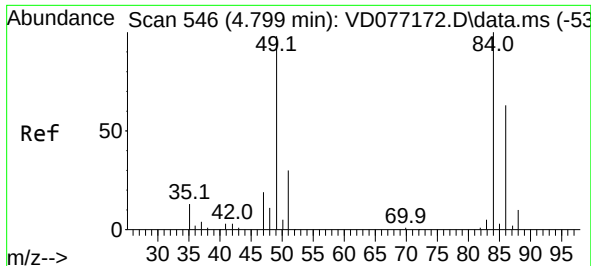
Tgt Ion: 76 Resp: 36959

Ion Ratio Lower Upper

76 100

78 7.1 7.5 11.3#

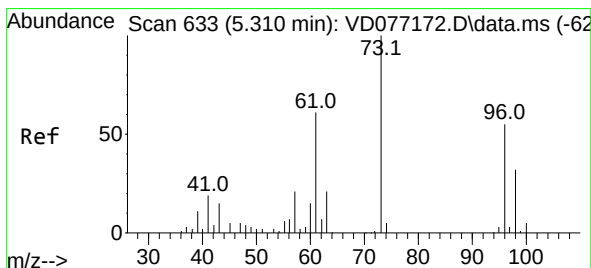
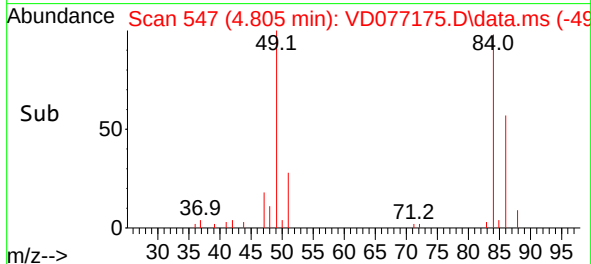
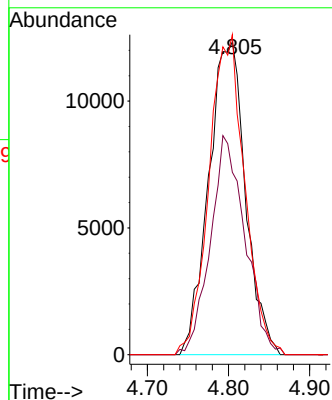
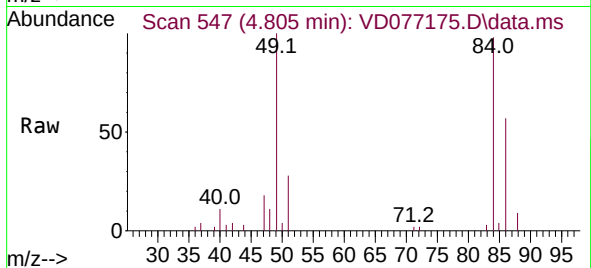




#16
Methylene chloride
Concen: 6.914 ug/L
RT: 4.805 min Scan# 546
Delta R.T. 0.006 min
Lab File: VD077175.D
Acq: 21 Sep 2023 12:43

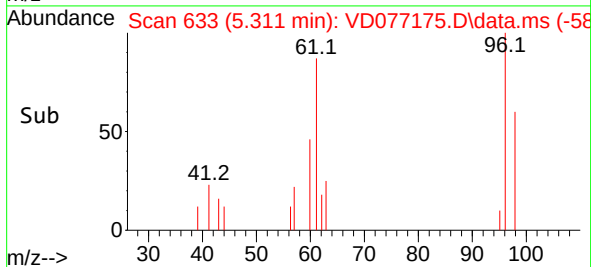
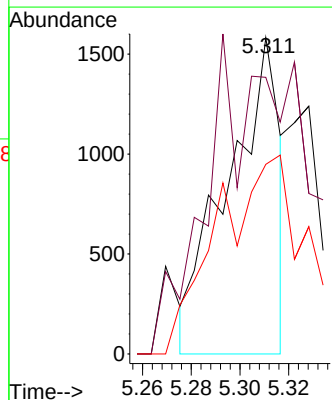
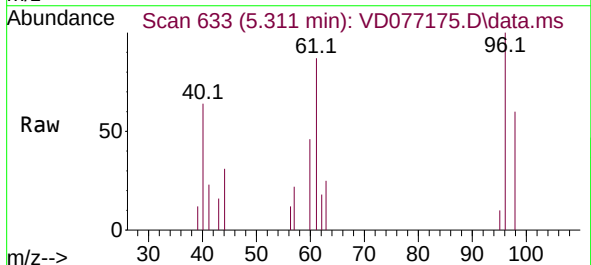
Instrument :
MSVOA_D
ClientSampleId :

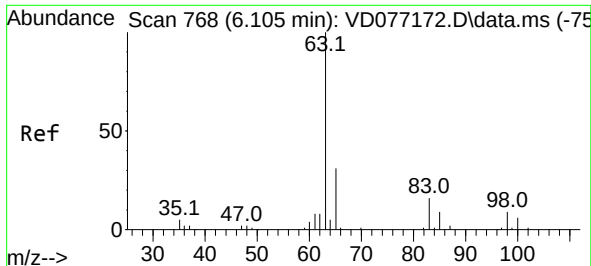
Tgt Ion: 84 Resp: 38821
Ion Ratio Lower Upper
84 100
86 58.3 45.3 84.1
49 102.3 69.2 128.6



#17
trans-1,2-Dichloroethene
Concen: 0.582 ug/L
RT: 5.311 min Scan# 633
Delta R.T. 0.000 min
Lab File: VD077175.D
Acq: 21 Sep 2023 12:43

Tgt Ion: 96 Resp: 2348
Ion Ratio Lower Upper
96 100
61 87.4 85.1 158.1
98 59.9 43.7 81.1





#19

1,1-Dichloroethane

Concen: 0.381 ug/L

RT: 6.105 min Scan# 768

Delta R.T. 0.000 min

Lab File: VD077175.D

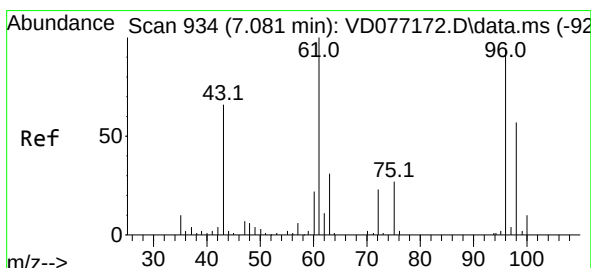
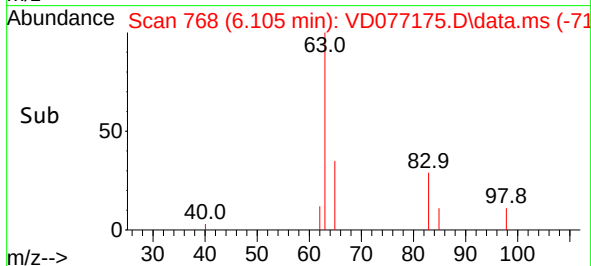
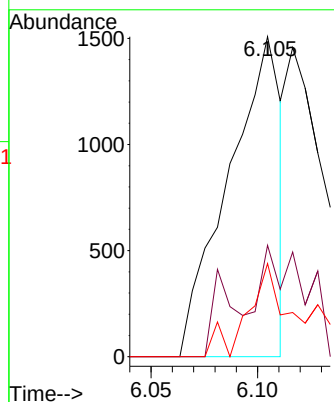
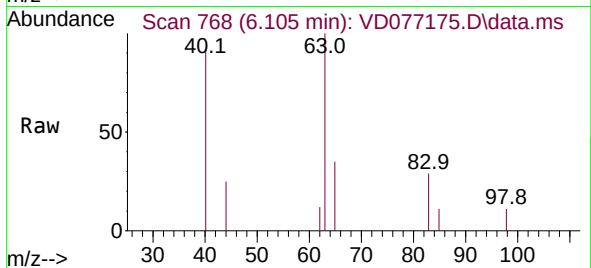
Acq: 21 Sep 2023 12:43

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	63	Resp:	2589
Ion	Ratio	Lower	Upper
63	100		
65	34.8	22.5	41.9
83	29.1	9.9	18.5



#20

cis-1,2-Dichloroethene

Concen: 19.381 ug/L

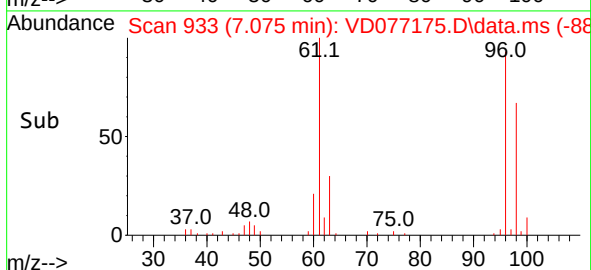
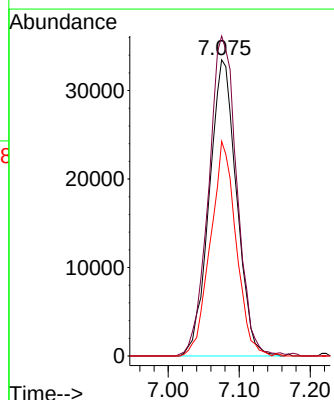
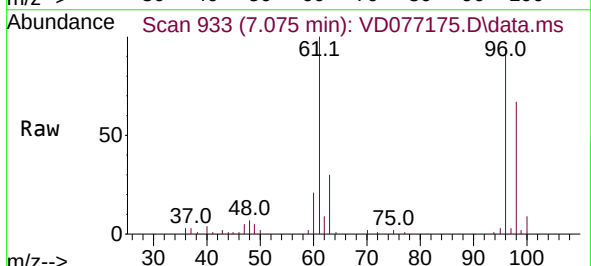
RT: 7.075 min Scan# 933

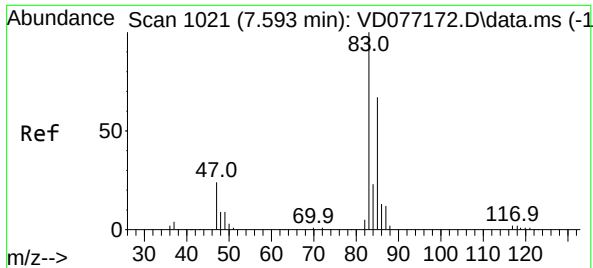
Delta R.T. -0.006 min

Lab File: VD077175.D

Acq: 21 Sep 2023 12:43

Tgt Ion:	96	Resp:	89498
Ion	Ratio	Lower	Upper
96	100		
61	108.1	75.5	140.1
98	72.4	45.8	85.0

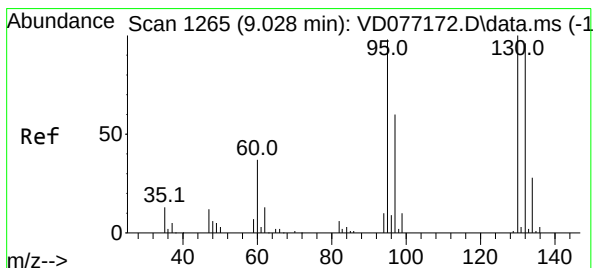
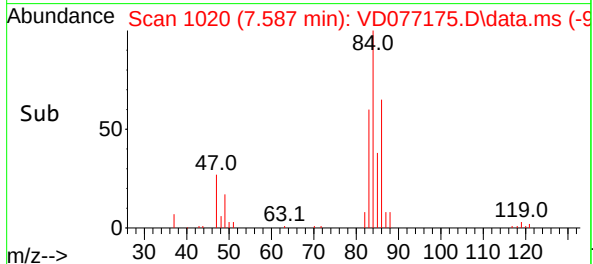
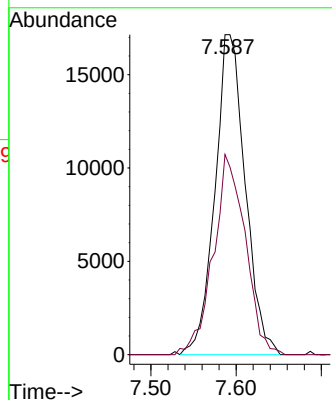
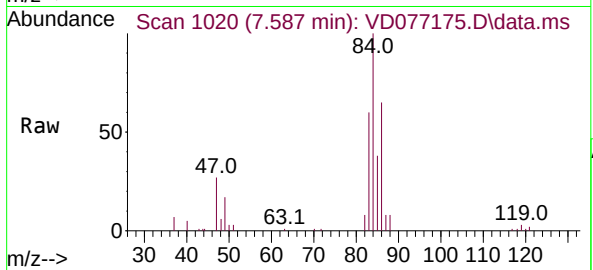




#25
Chloroform
Concen: 5.587 ug/L
RT: 7.587 min Scan# 1020
Delta R.T. -0.006 min
Lab File: VD077175.D
Acq: 21 Sep 2023 12:43

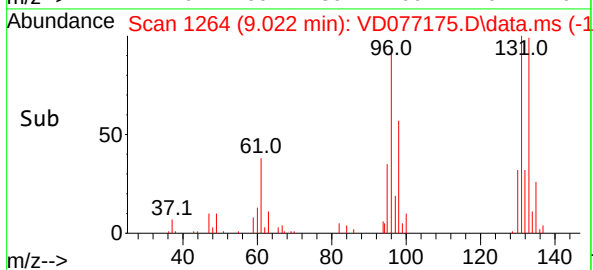
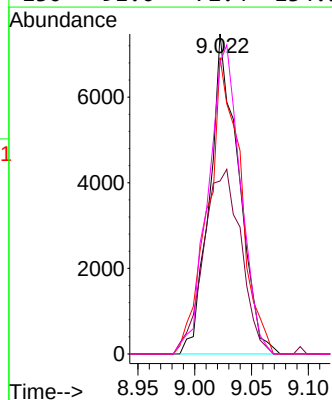
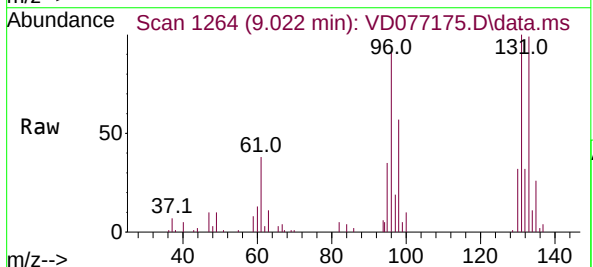
Instrument :
MSVOA_D
ClientSampleId :

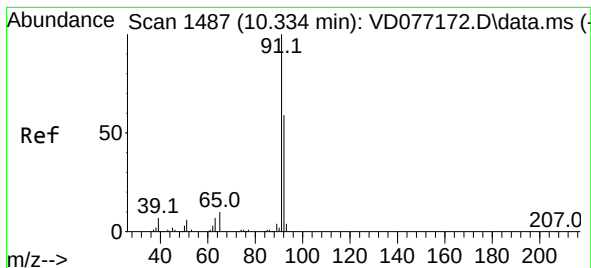
Tgt Ion: 83 Resp: 42427
Ion Ratio Lower Upper
83 100
85 62.6 46.2 85.8



#34
Trichloroethene
Concen: 3.059 ug/L
RT: 9.022 min Scan# 1264
Delta R.T. -0.006 min
Lab File: VD077175.D
Acq: 21 Sep 2023 12:43

Tgt Ion: 95 Resp: 13282
Ion Ratio Lower Upper
95 100
97 54.1 46.4 86.2
132 92.6 70.1 130.1
130 91.0 72.4 134.5





#42

Toluene

Concen: 0.440 ug/L

RT: 10.328 min Scan# 1486

Delta R.T. -0.006 min

Lab File: VD077175.D

Acq: 21 Sep 2023 12:43

Instrument :

MSVOA_D

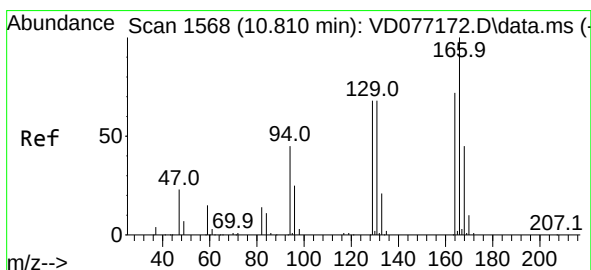
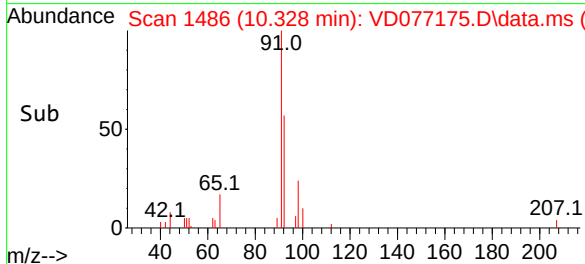
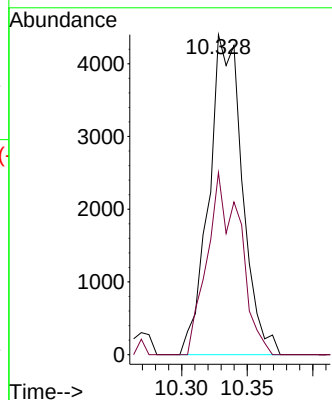
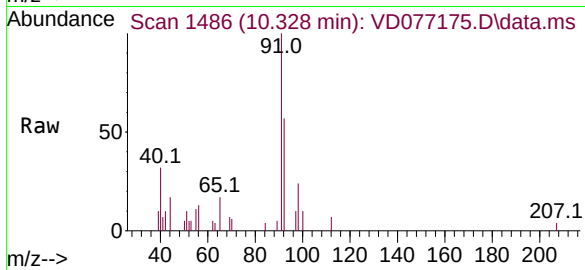
ClientSampleId :

Tgt Ion: 91 Resp: 7808

Ion Ratio Lower Upper

91 100

92 56.9 40.8 75.8



#46

Tetrachloroethene

Concen: 30.672 ug/L

RT: 10.810 min Scan# 1568

Delta R.T. 0.000 min

Lab File: VD077175.D

Acq: 21 Sep 2023 12:43

Tgt Ion:164 Resp: 108863

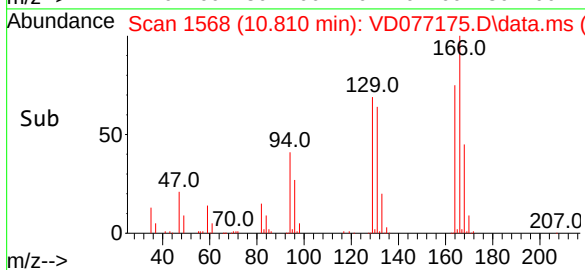
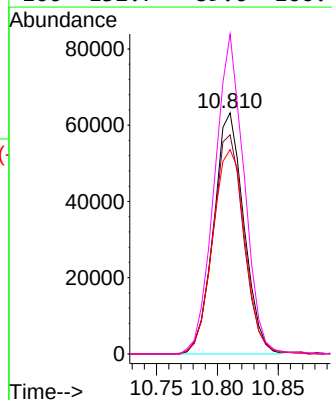
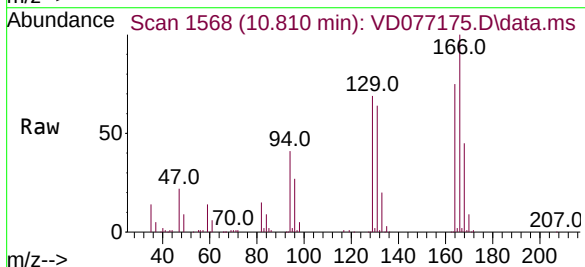
Ion Ratio Lower Upper

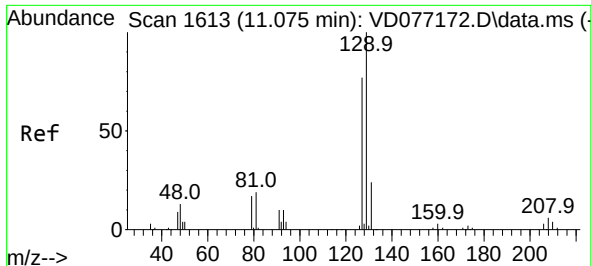
164 100

129 90.9 66.4 123.4

131 84.7 62.6 116.3

166 132.7 89.6 166.4





#49

Dibromochloromethane

Concen: 23.453 ug/L

RT: 10.810 min Scan# 11

Delta R.T. -0.265 min

Lab File: VD077175.D

Acq: 21 Sep 2023 12:43

Instrument :

MSVOA_D

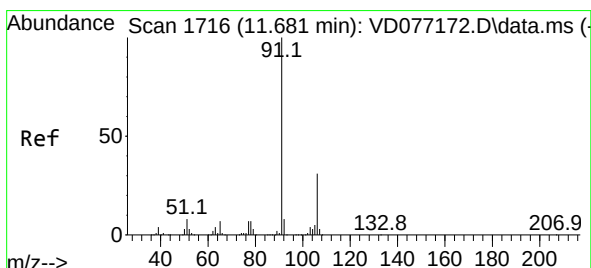
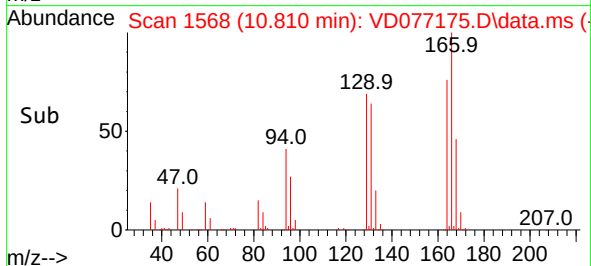
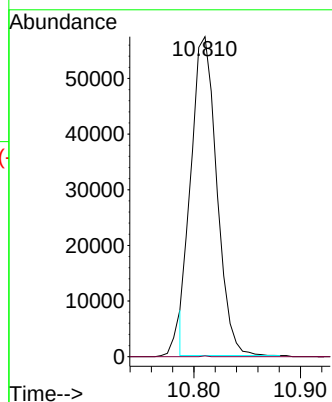
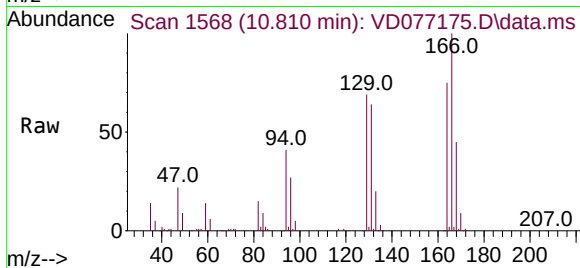
ClientSampleId :

Tgt Ion:129 Resp: 95733

Ion Ratio Lower Upper

129 100

127 0.3 56.6 105.2#



#52

Ethylbenzene

Concen: 0.332 ug/L

RT: 11.681 min Scan# 1716

Delta R.T. 0.000 min

Lab File: VD077175.D

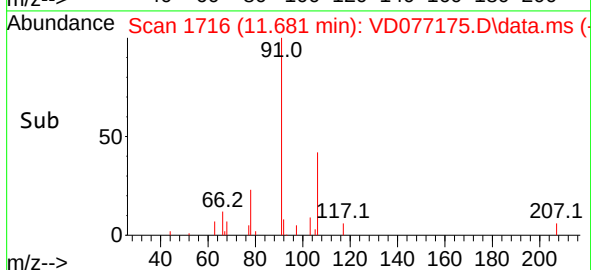
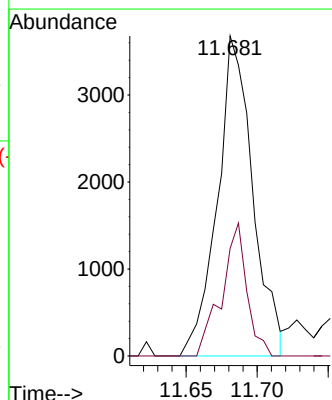
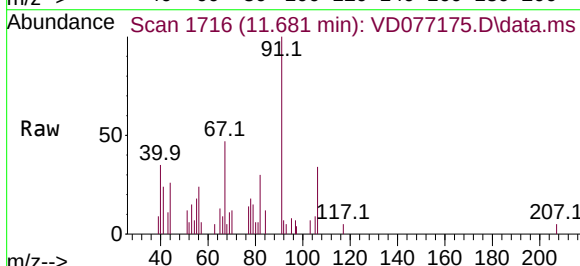
Acq: 21 Sep 2023 12:43

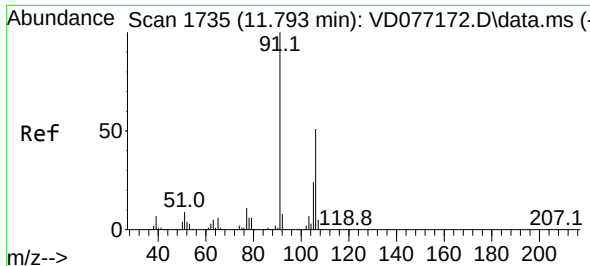
Tgt Ion: 91 Resp: 6372

Ion Ratio Lower Upper

91 100

106 33.6 22.1 41.1

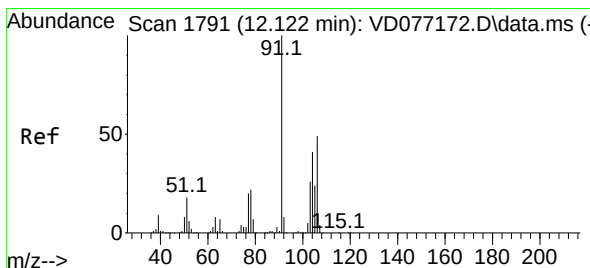
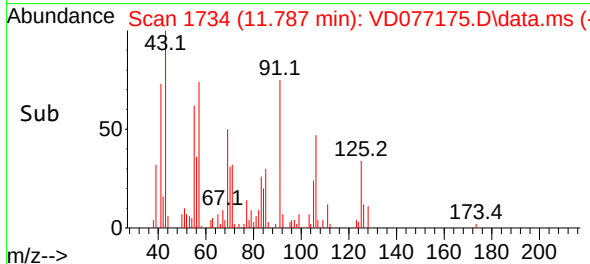
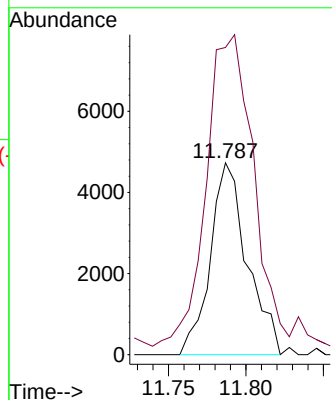
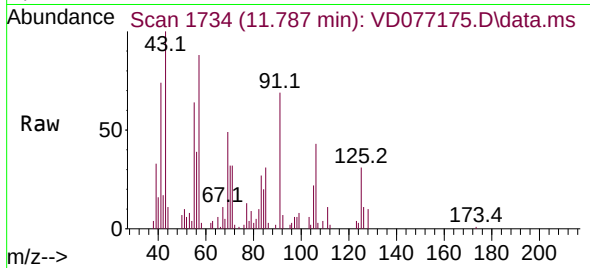




#53
m,p-Xylene
Concen: 1.056 ug/L
RT: 11.787 min Scan# 1734
Delta R.T. -0.006 min
Lab File: VD077175.D
Acq: 21 Sep 2023 12:43

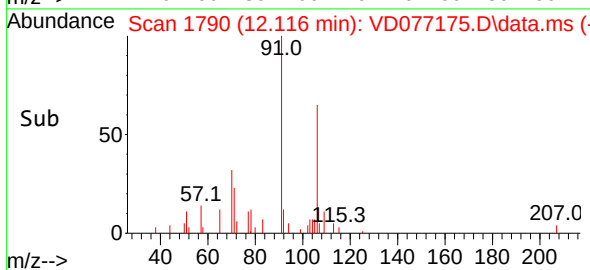
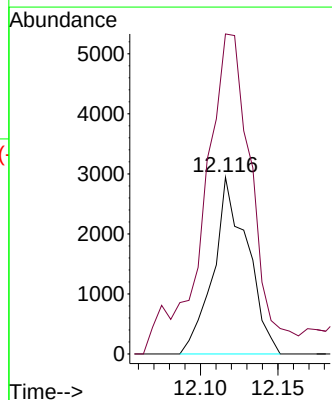
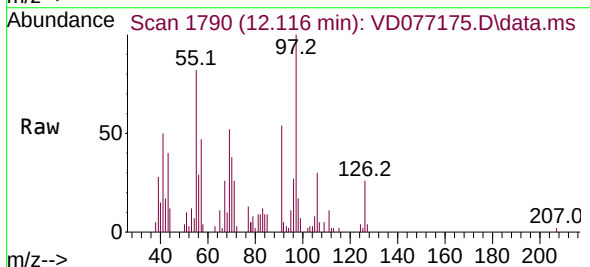
Instrument :
MSVOA_D
ClientSampleId :

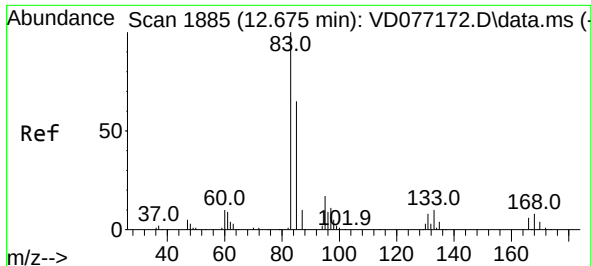
Tgt Ion:106 Resp: 7825
Ion Ratio Lower Upper
106 100
91 160.2 138.2 256.6



#54
o-Xylene
Concen: 0.631 ug/L
RT: 12.116 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VD077175.D
Acq: 21 Sep 2023 12:43

Tgt Ion:106 Resp: 4517
Ion Ratio Lower Upper
106 100
91 181.1 146.9 272.7





#57

1,1,2,2-Tetrachloroethane

Concen: 1.032 ug/L

RT: 12.640 min Scan# 1879

Delta R.T. -0.035 min

Lab File: VD077175.D

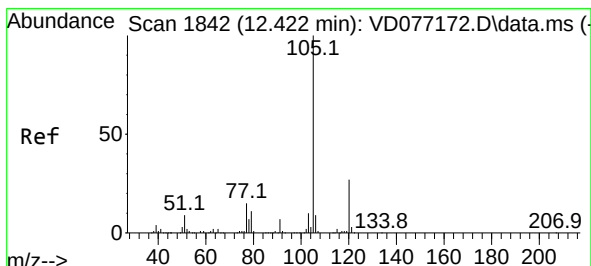
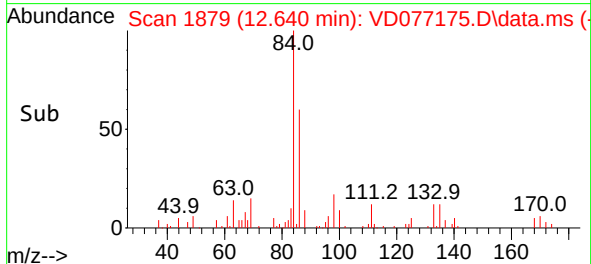
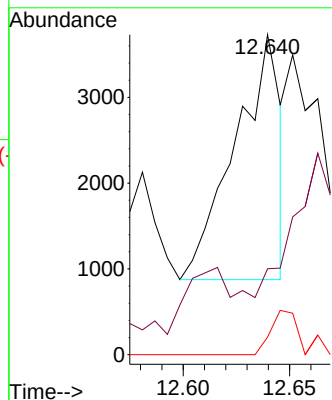
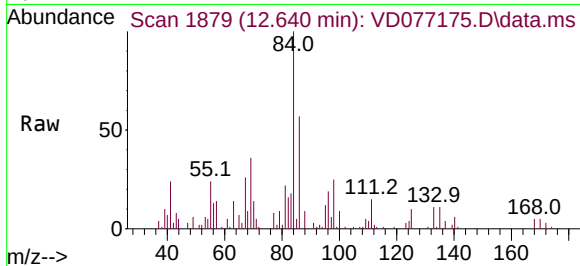
Acq: 21 Sep 2023 12:43

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	83	Resp:	4242
Ion Ratio	Lower	Upper	
83	100		
85	26.8	43.6	81.0#
131	5.5	7.8	11.8#



#60

Isopropylbenzene

Concen: 0.288 ug/L

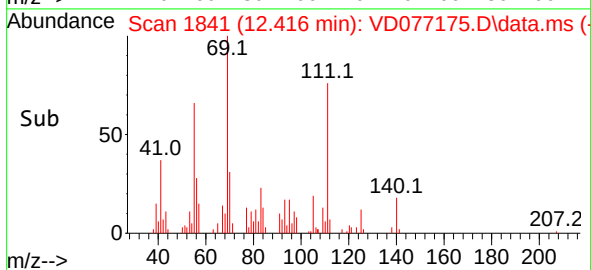
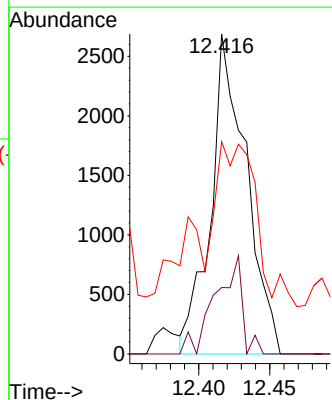
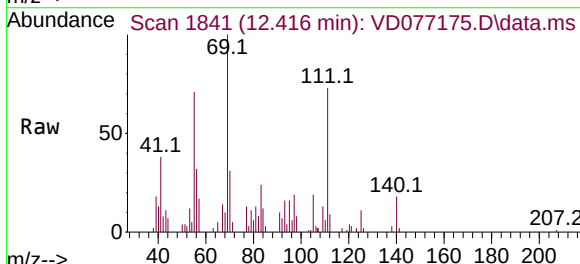
RT: 12.416 min Scan# 1841

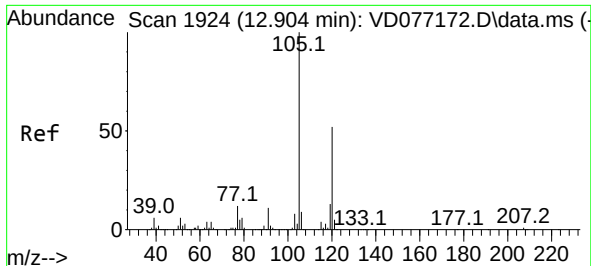
Delta R.T. -0.006 min

Lab File: VD077175.D

Acq: 21 Sep 2023 12:43

Tgt Ion:	105	Resp:	4670
Ion Ratio	Lower	Upper	
105	100		
120	14.6	21.8	32.6#
77	18.4	11.9	17.9#





#62

1,3,5-Trimethylbenzene

Concen: 1.697 ug/L

RT: 12.898 min Scan# 1923

Delta R.T. -0.006 min

Lab File: VD077175.D

Acq: 21 Sep 2023 12:43

Instrument :

MSVOA_D

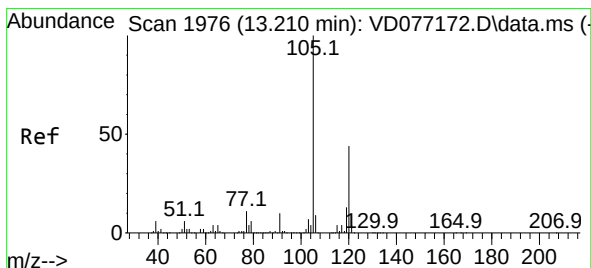
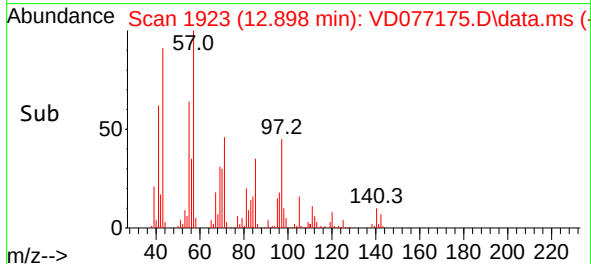
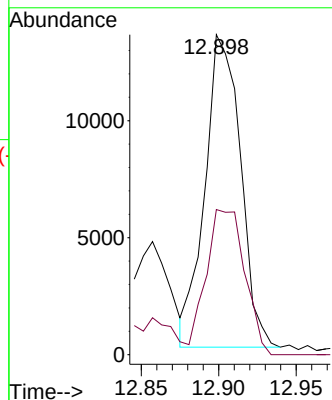
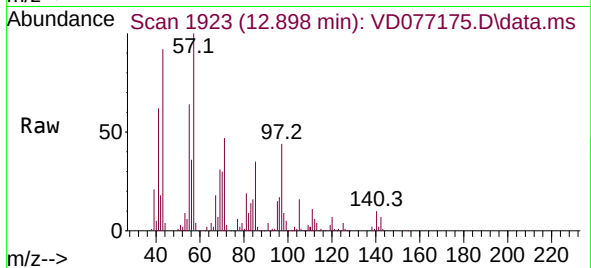
ClientSampleId :

Tgt Ion:105 Resp: 21317

Ion Ratio Lower Upper

105 100

120 50.2 40.2 60.2



#63

1,2,4-Trimethylbenzene

Concen: 3.633 ug/L

RT: 13.210 min Scan# 1976

Delta R.T. 0.000 min

Lab File: VD077175.D

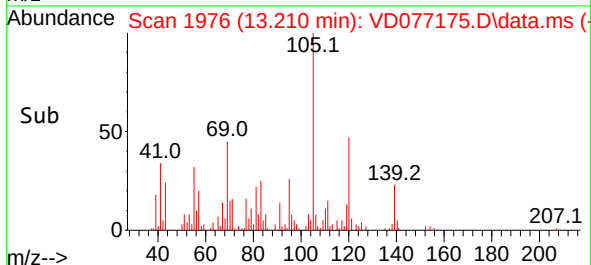
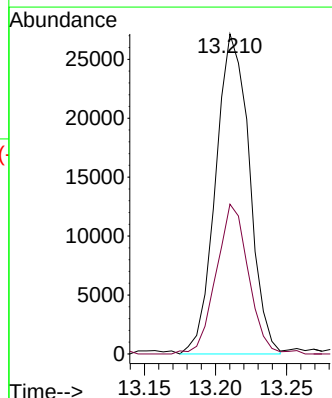
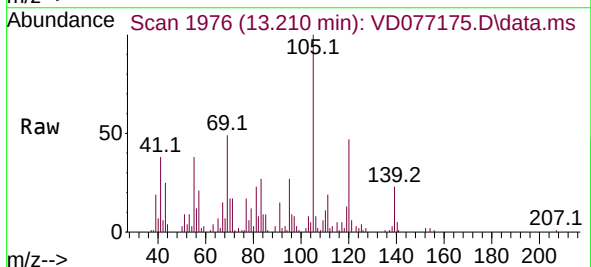
Acq: 21 Sep 2023 12:43

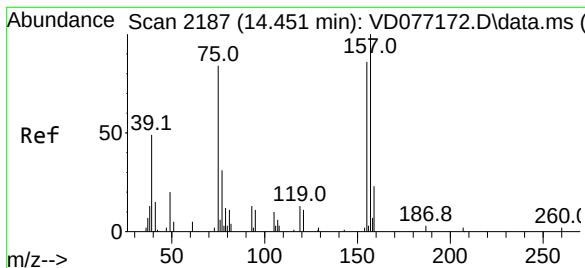
Tgt Ion:105 Resp: 44715

Ion Ratio Lower Upper

105 100

120 44.6 37.8 56.8

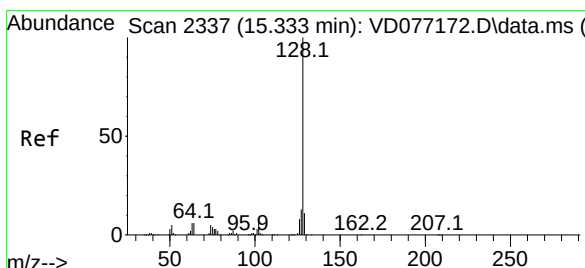
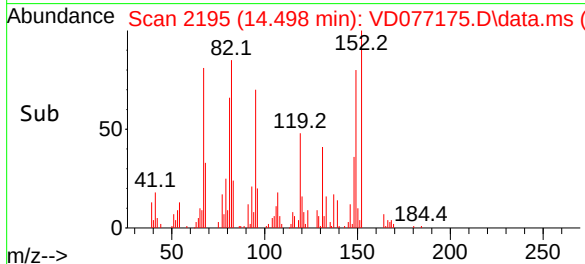
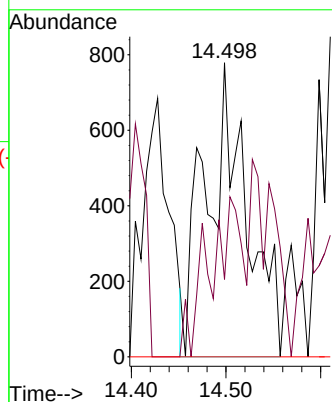
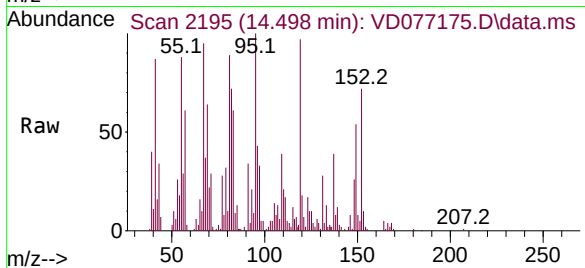




#68
1,2-Dibromo-3-chloropropane
Concen: 4.564 ug/L
RT: 14.498 min Scan# 2187
Delta R.T. 0.047 min
Lab File: VD077175.D
Acq: 21 Sep 2023 12:43

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 2296
Ion Ratio Lower Upper
75 100
155 26.3 79.0 118.6#
157 0.0 100.2 150.4#



#71
Naphthalene
Concen: 8.259 ug/L
RT: 15.334 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VD077175.D
Acq: 21 Sep 2023 12:43

Tgt Ion: 128 Resp: 72066
Ion Ratio Lower Upper
128 100
127 17.3 10.6 16.0#
129 8.6 8.6 13.0#

