

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092223\
 Data File : VD077204.D
 Acq On : 22 Sep 2023 17:25
 Operator : JC/SY
 Sample : 04527-13
 Misc : 5.62G/10.0ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 22 23:44:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM090123SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Sep 22 23:41:10 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.775	114	265292	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	270604	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	149945	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.269	65	118016	18.054	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	72.200%
7) Chloroethane-d5	2.799	69	106263	19.768	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.080%
11) 1,1-Dichloroethene-d2	3.911	65	29731	20.022	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	80.080%
21) 2-Butanone-d5	6.987	46	32201	39.102	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	78.200%
24) Chloroform-d	7.563	84	22678	3.124	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	12.480%#
26) 1,2-Dichloroethane-d4	8.228	65	88740	25.792	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.160%
32) Benzene-d6	8.199	84	332370	22.238	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	88.960%
36) 1,2-Dichloropropane-d6	9.204	67	107728	25.134	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	100.520%
41) Toluene-d8	10.269	98	286815	20.964	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	83.840%
43) trans-1,3-Dichloroprop...	10.522	79	40086	20.526	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	82.120%
47) 2-Hexanone-d5	10.875	63	20586	30.072	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	60.140%
56) 1,1,2,2-Tetrachloroeth...	12.645	84	147	0.038	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	0.160%#
66) 1,2-Dichlorobenzene-d4	13.816	152	116938	24.297	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.200%
Target Compounds						
					Qvalue	
13) Acetone	4.028	43	9806	8.301	ug/L	75
15) Methyl Acetate	4.781	43	489	0.309	ug/L #	100
16) Methylene chloride	4.799	84	9123	1.690	ug/L	96
22) 2-Butanone	7.075	43	1016	0.713	ug/L #	43
25) Chloroform	7.593	83	149476	20.469	ug/L	99
29) Cyclohexane	7.875	56	2730	0.536	ug/L #	17
33) Benzene	8.252	78	25249	1.553	ug/L	100
34) Trichloroethene	9.028	95	16714	3.878	ug/L	95
35) Methylcyclohexane	9.269	83	9320	1.402	ug/L #	73
42) Toluene	10.328	91	39784	2.260	ug/L	94
45) 1,1,2-Trichloroethane	10.710	97	1760	0.507	ug/L #	12
48) 2-Hexanone	10.887	43	8118	4.672	ug/L #	48
52) Ethylbenzene	11.681	91	16763	0.880	ug/L	94
53) m,p-Xylene	11.787	106	28879	3.925	ug/L	98
54) o-Xylene	12.122	106	16897	2.379	ug/L	98
60) Isopropylbenzene	12.828	105	59302	3.069	ug/L	91
62) 1,3,5-Trimethylbenzene	12.904	105	60205	4.028	ug/L	97
63) 1,2,4-Trimethylbenzene	13.210	105	177258	12.104	ug/L	100
68) 1,2-Dibromo-3-chloropr...	14.434	75	1258	2.102	ug/L #	1

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Quant Title : SFAM01.0
QLast Update : Fri Sep 22 23:41:10 2023
Response via : Initial Calibration

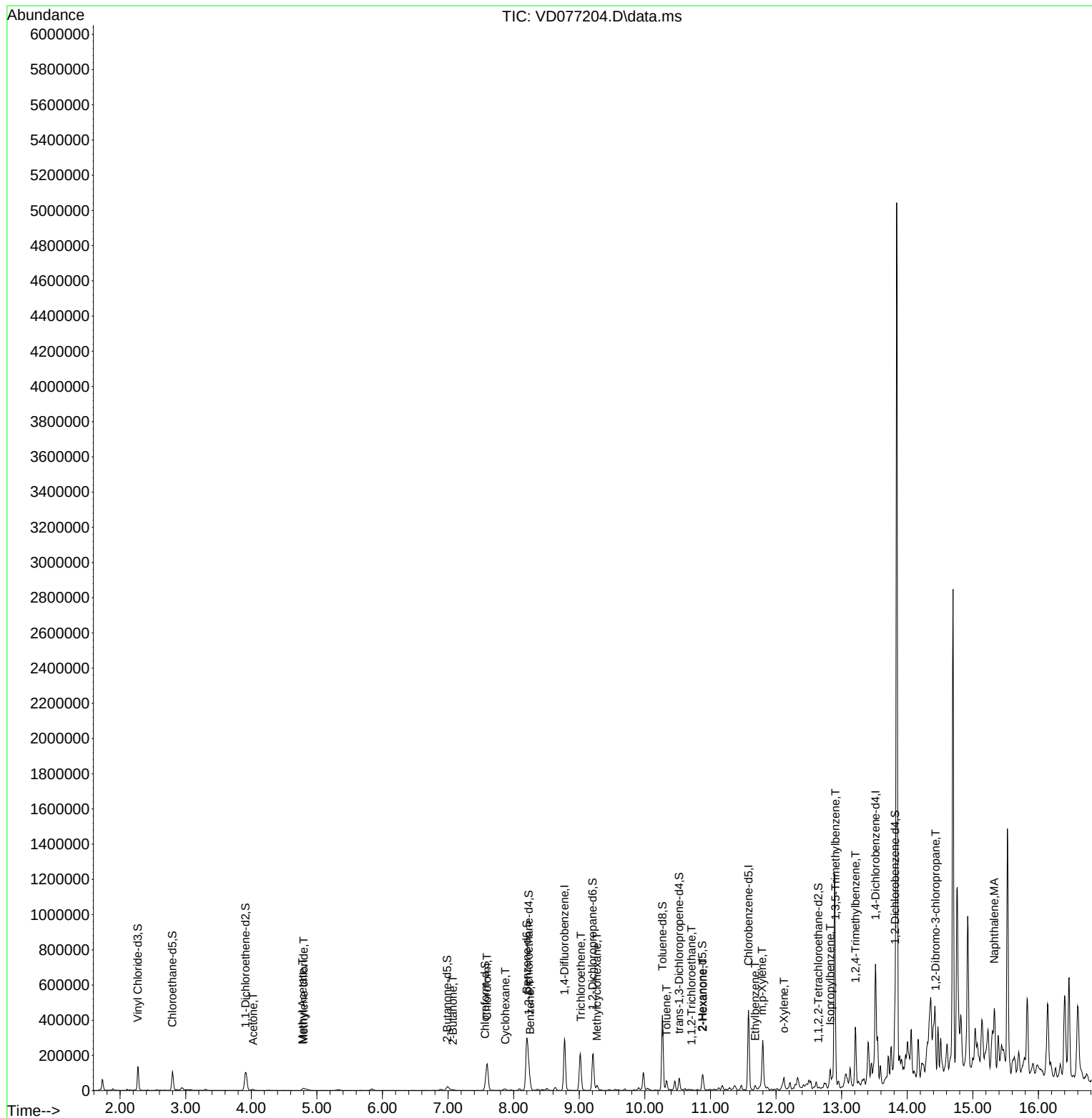
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) Naphthalene	15.328	128	302848	29.172	ug/L	99

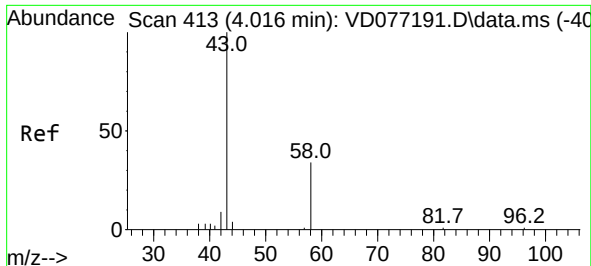
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 8.301 ug/L

RT: 4.028 min Scan# 41

Delta R.T. 0.012 min

Lab File: VD077204.D

Acq: 22 Sep 2023 17:25

Instrument :

MSVOA_D

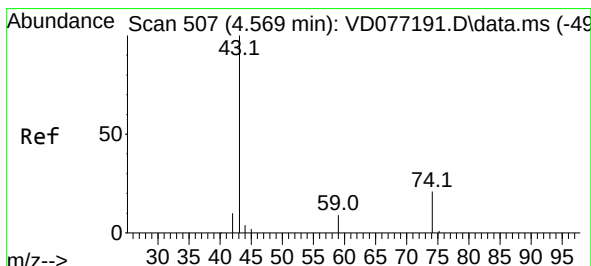
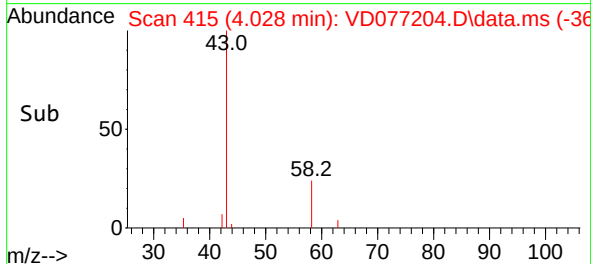
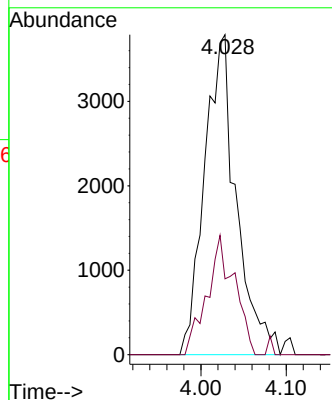
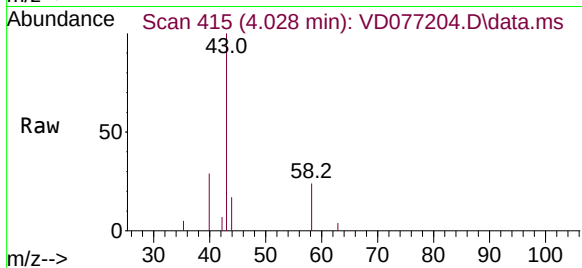
ClientSampleId :

Tgt Ion: 43 Resp: 9806

Ion Ratio Lower Upper

43 100

58 21.0 0.0 71.8



#15

Methyl Acetate

Concen: 0.309 ug/L

RT: 4.781 min Scan# 543

Delta R.T. 0.212 min

Lab File: VD077204.D

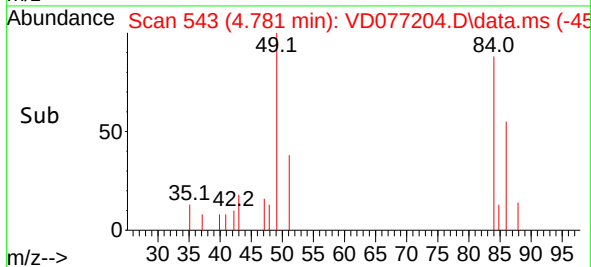
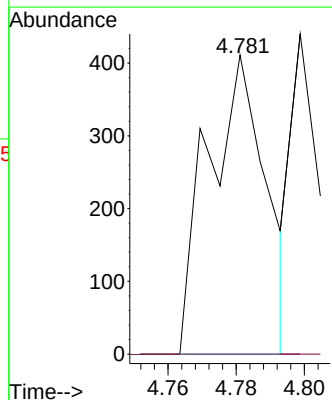
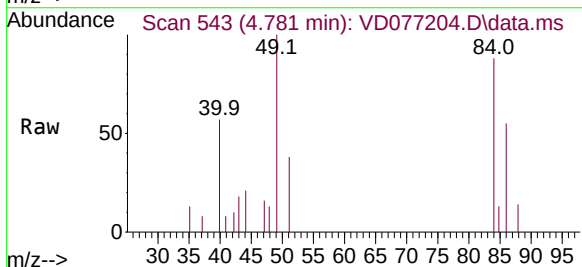
Acq: 22 Sep 2023 17:25

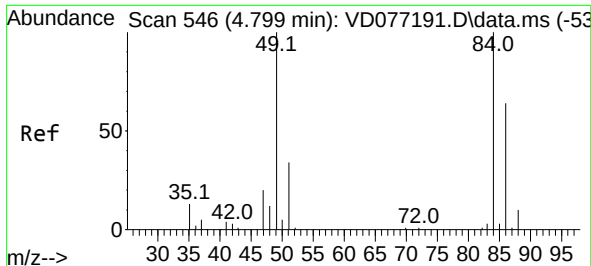
Tgt Ion: 43 Resp: 489

Ion Ratio Lower Upper

43 100

74 0.0 0.2 0.2#

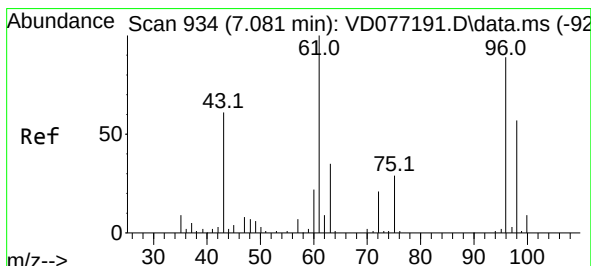
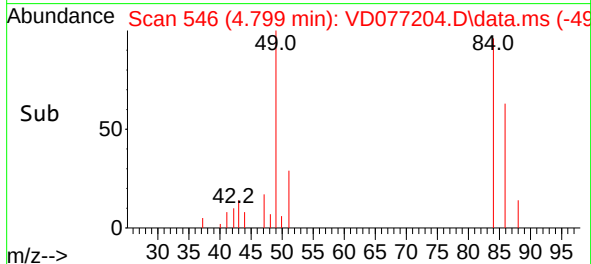
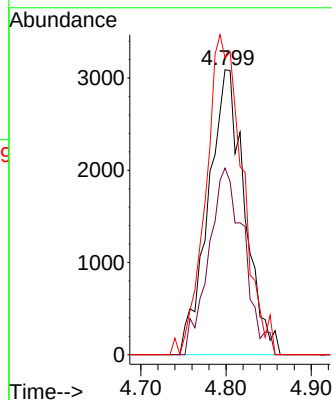
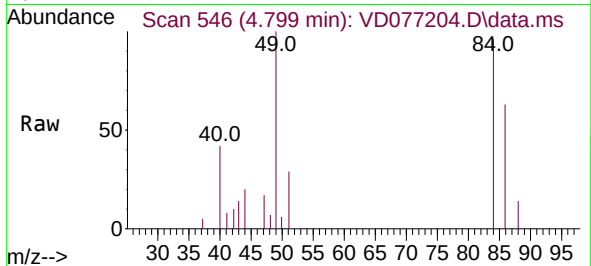




#16
Methylene chloride
Concen: 1.690 ug/L
RT: 4.799 min Scan# 546
Delta R.T. 0.000 min
Lab File: VD077204.D
Acq: 22 Sep 2023 17:25

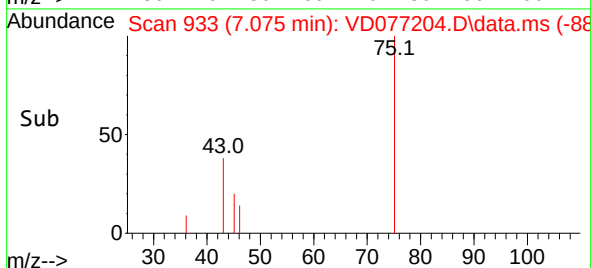
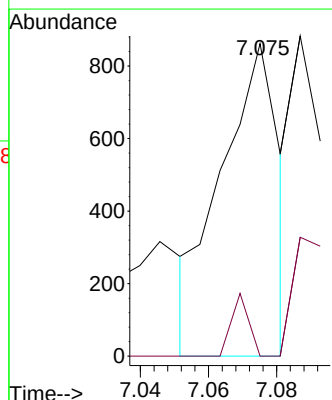
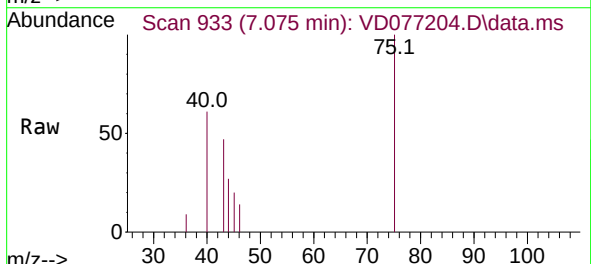
Instrument :
MSVOA_D
ClientSampleId :

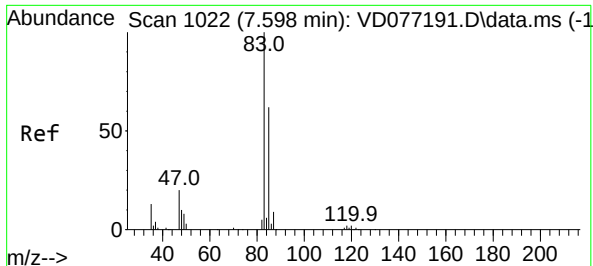
Tgt Ion: 84 Resp: 9123
Ion Ratio Lower Upper
84 100
86 65.4 45.3 84.1
49 104.1 69.2 128.6



#22
2-Butanone
Concen: 0.713 ug/L
RT: 7.075 min Scan# 933
Delta R.T. -0.006 min
Lab File: VD077204.D
Acq: 22 Sep 2023 17:25

Tgt Ion: 43 Resp: 1016
Ion Ratio Lower Upper
43 100
72 0.0 16.0 48.0#





#25

Chloroform

Concen: 20.469 ug/L

RT: 7.593 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VD077204.D

Acq: 22 Sep 2023 17:25

Instrument :

MSVOA_D

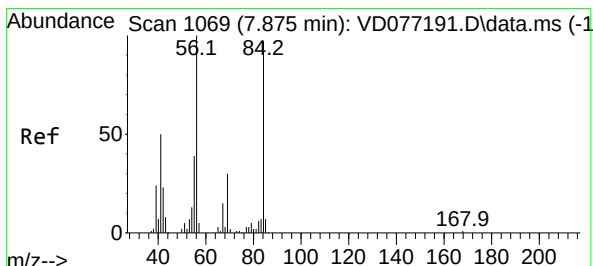
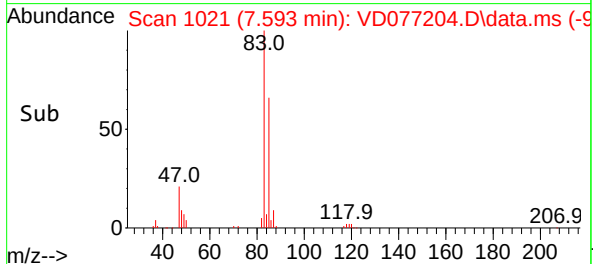
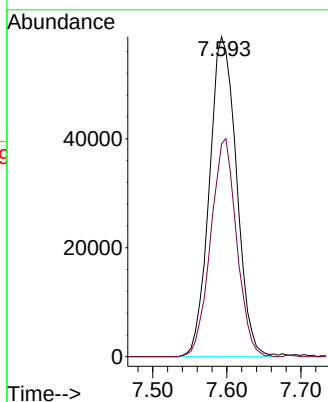
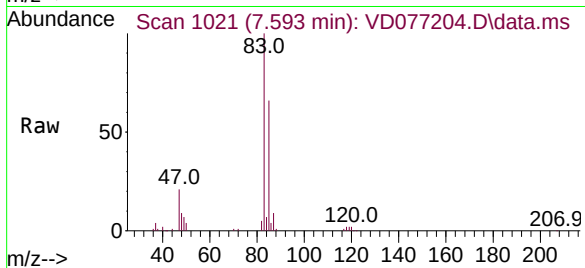
ClientSampleId :

Tgt Ion: 83 Resp: 149476

Ion Ratio Lower Upper

83 100

85 66.5 46.2 85.8



#29

Cyclohexane

Concen: 0.536 ug/L

RT: 7.875 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VD077204.D

Acq: 22 Sep 2023 17:25

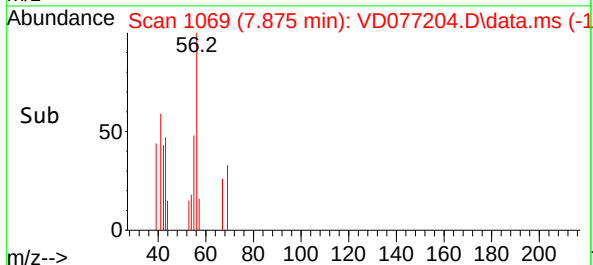
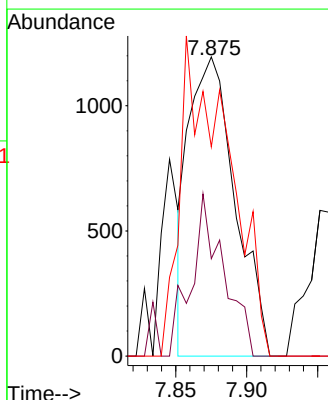
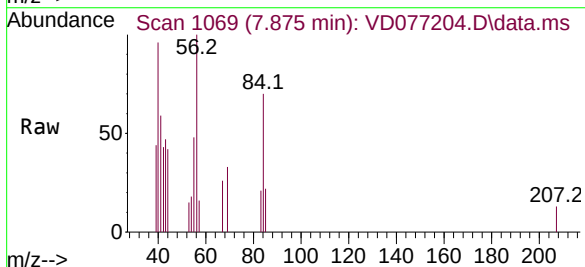
Tgt Ion: 56 Resp: 2730

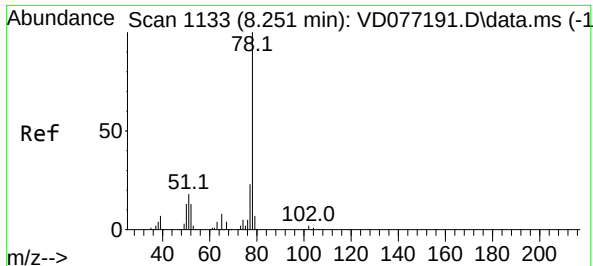
Ion Ratio Lower Upper

56 100

69 18.6 25.5 38.3#

84 0.0 82.6 124.0#

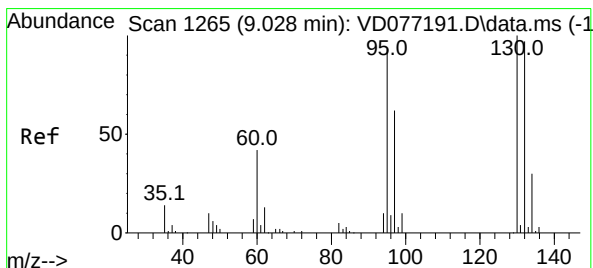
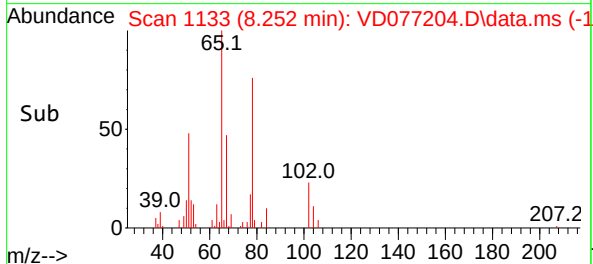
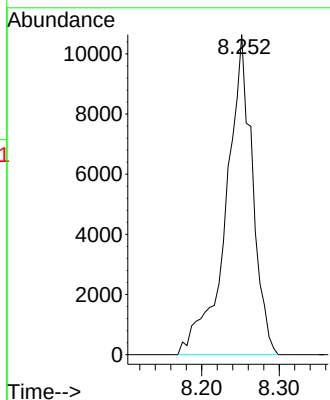
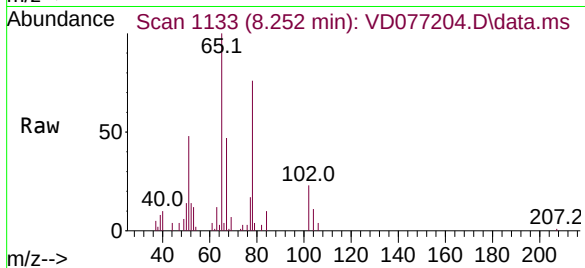




#33
Benzene
Concen: 1.553 ug/L
RT: 8.252 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VD077204.D
Acq: 22 Sep 2023 17:25

Instrument :
MSVOA_D
ClientSampleId :

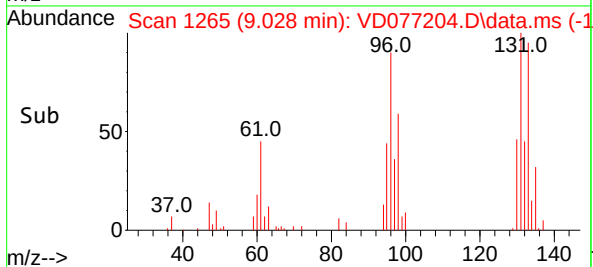
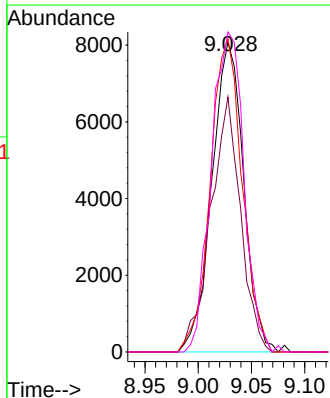
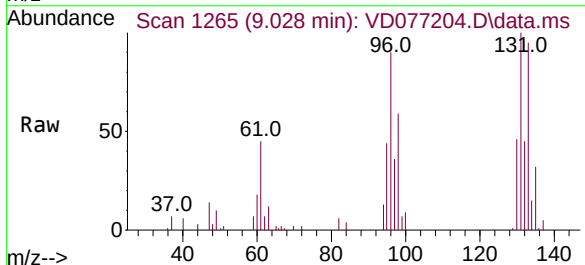
Tgt Ion: 78 Resp: 25249

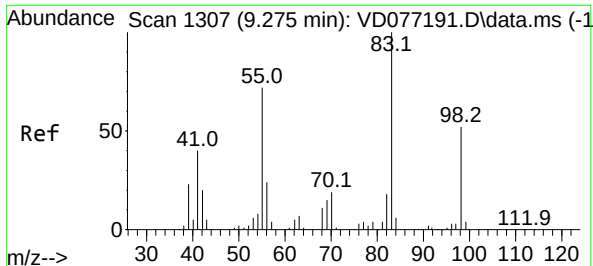


#34
Trichloroethene
Concen: 3.878 ug/L
RT: 9.028 min Scan# 1265
Delta R.T. 0.000 min
Lab File: VD077204.D
Acq: 22 Sep 2023 17:25

Tgt Ion: 95 Resp: 16714

Ion	Ratio	Lower	Upper
95	100		
97	82.3	46.4	86.2
132	101.1	70.1	130.1
130	103.3	72.4	134.5





#35

Methylcyclohexane

Concen: 1.402 ug/L

RT: 9.269 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD077204.D

Acq: 22 Sep 2023 17:25

Instrument :

MSVOA_D

ClientSampleId :

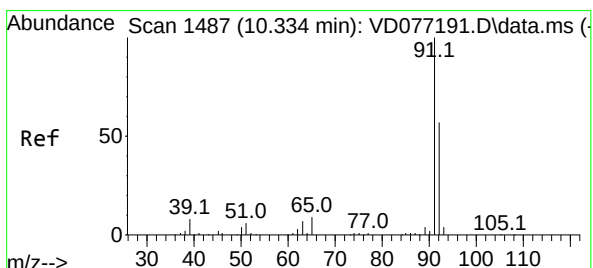
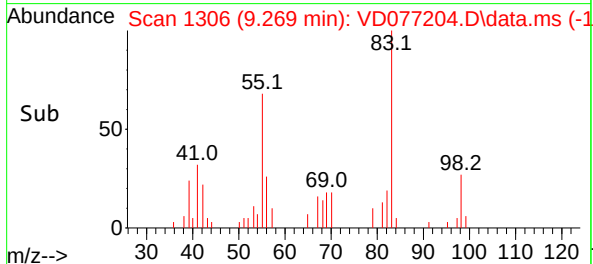
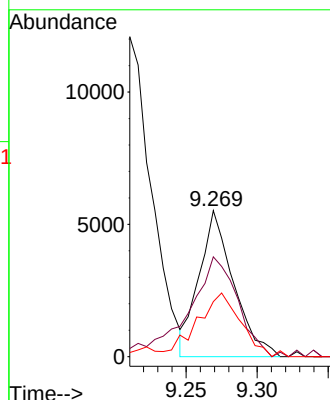
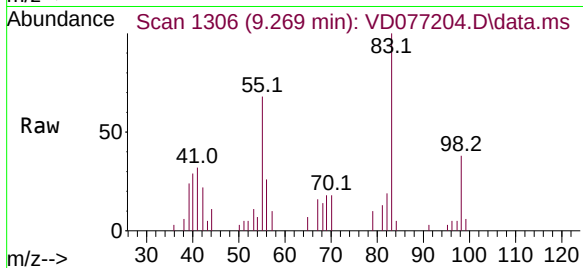
Tgt Ion: 83 Resp: 9320

Ion Ratio Lower Upper

83 100

55 98.9 51.5 77.3#

98 54.1 40.7 61.1



#42

Toluene

Concen: 2.260 ug/L

RT: 10.328 min Scan# 1486

Delta R.T. -0.006 min

Lab File: VD077204.D

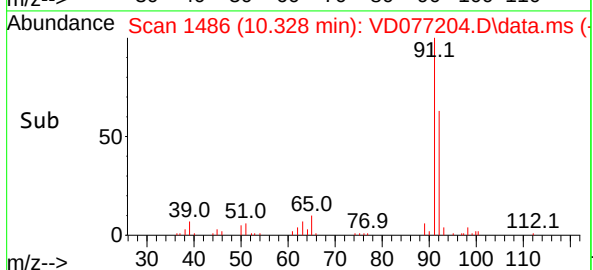
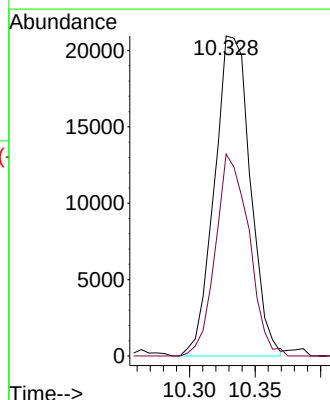
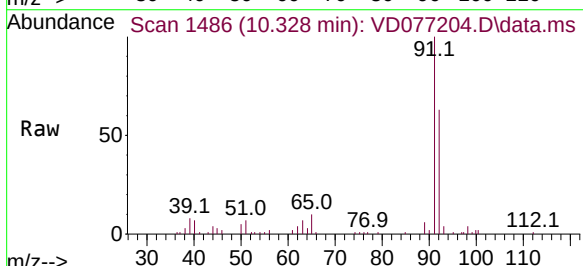
Acq: 22 Sep 2023 17:25

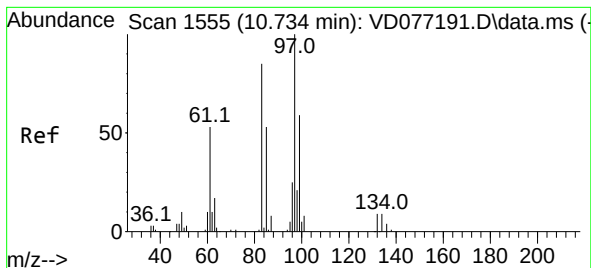
Tgt Ion: 91 Resp: 39784

Ion Ratio Lower Upper

91 100

92 63.1 40.8 75.8





#45

1,1,2-Trichloroethane

Concen: 0.507 ug/L

RT: 10.710 min Scan# 1555

Delta R.T. -0.023 min

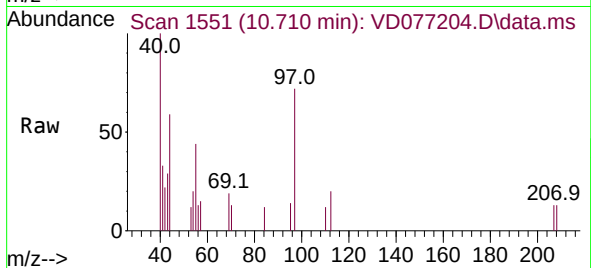
Lab File: VD077204.D

Acq: 22 Sep 2023 17:25

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 97 Resp: 1760

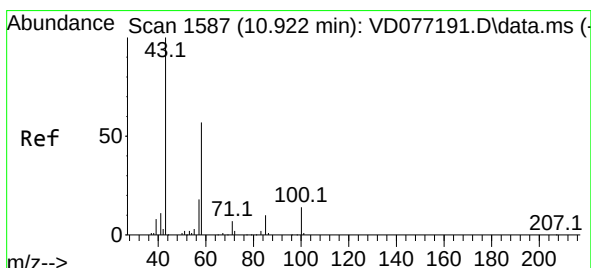
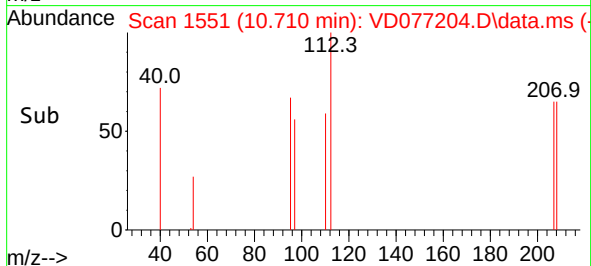
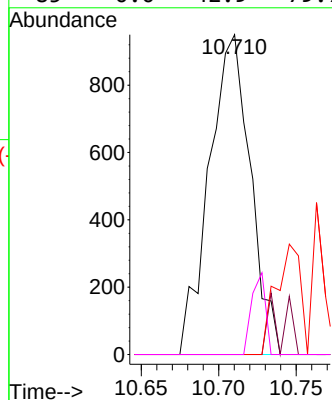
Ion Ratio Lower Upper

97 100

99 0.0 46.1 85.5#

83 0.0 64.3 119.3#

85 0.0 42.9 79.7#



#48

2-Hexanone

Concen: 4.672 ug/L

RT: 10.887 min Scan# 1581

Delta R.T. -0.035 min

Lab File: VD077204.D

Acq: 22 Sep 2023 17:25

Tgt Ion: 43 Resp: 8118

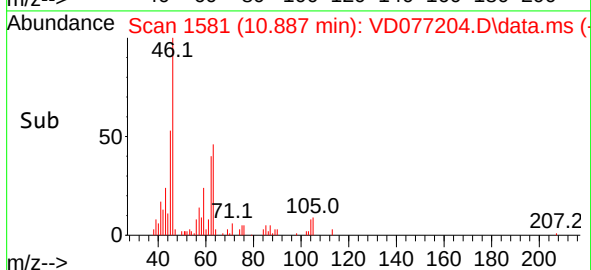
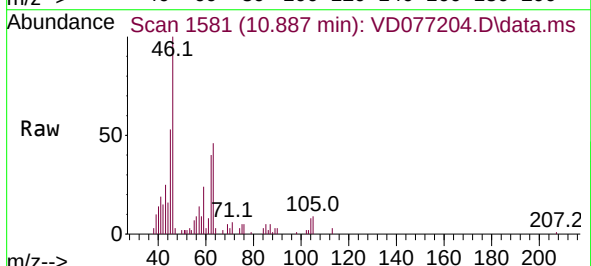
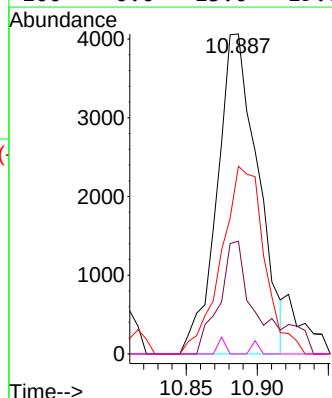
Ion Ratio Lower Upper

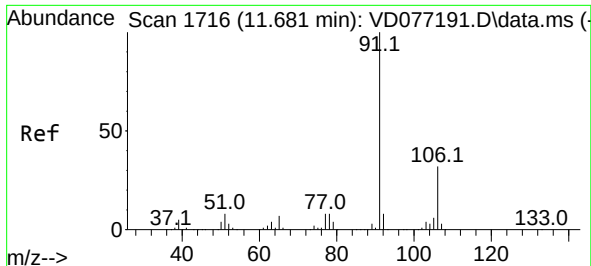
43 100

58 29.1 50.6 75.8#

57 61.7 16.6 24.8#

100 0.0 13.0 19.6#

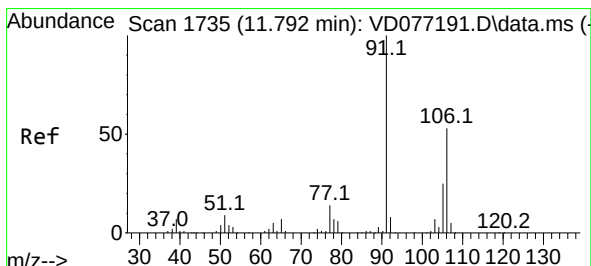
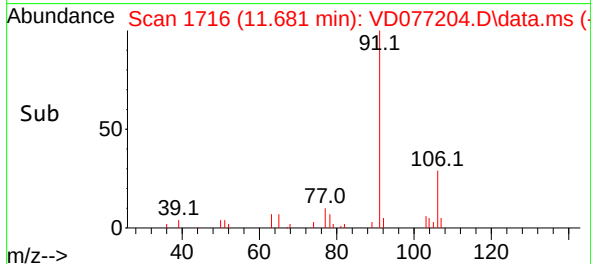
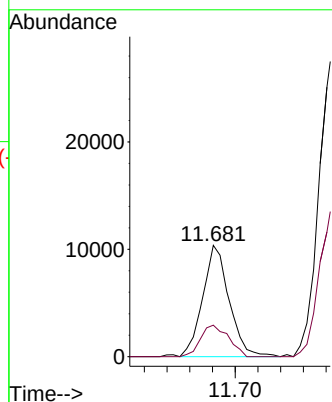
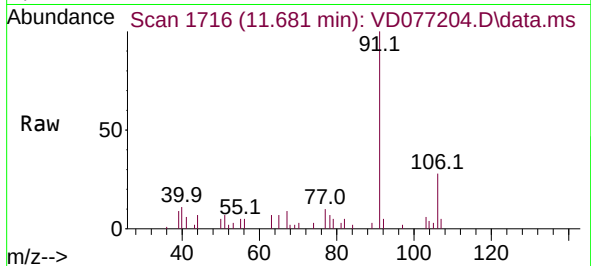




#52
Ethylbenzene
Concen: 0.880 ug/L
RT: 11.681 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VD077204.D
Acq: 22 Sep 2023 17:25

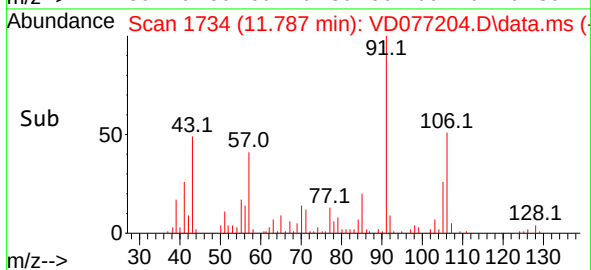
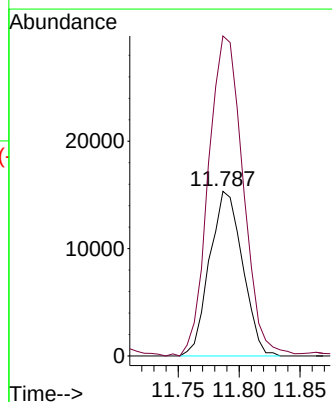
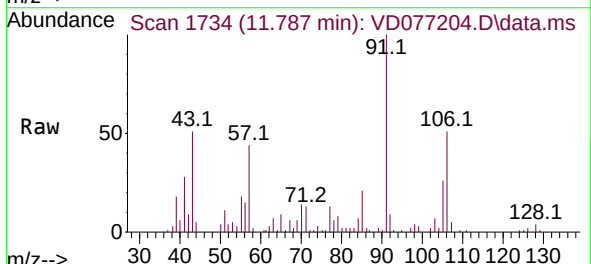
Instrument :
MSVOA_D
ClientSampleId :

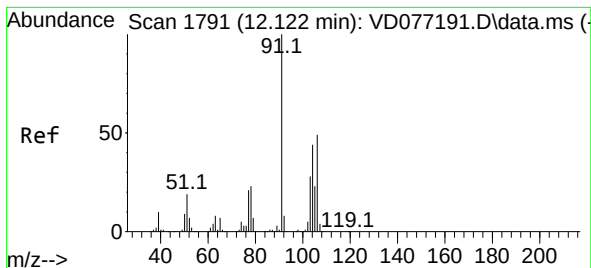
Tgt Ion: 91 Resp: 16763
Ion Ratio Lower Upper
91 100
106 28.3 22.1 41.1



#53
m,p-Xylene
Concen: 3.925 ug/L
RT: 11.787 min Scan# 1734
Delta R.T. -0.006 min
Lab File: VD077204.D
Acq: 22 Sep 2023 17:25

Tgt Ion: 106 Resp: 28879
Ion Ratio Lower Upper
106 100
91 194.3 138.2 256.6





#54

o-Xylene

Concen: 2.379 ug/L

RT: 12.122 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD077204.D

Acq: 22 Sep 2023 17:25

Instrument :

MSVOA_D

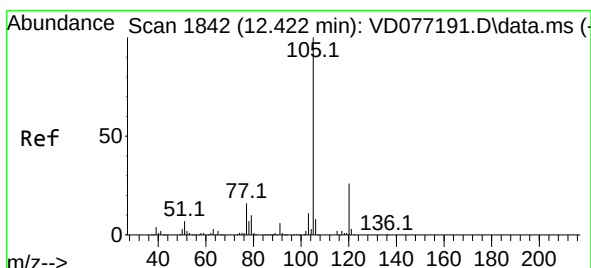
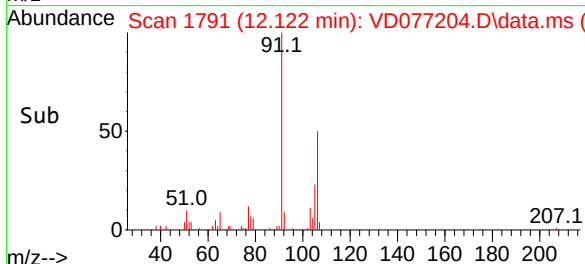
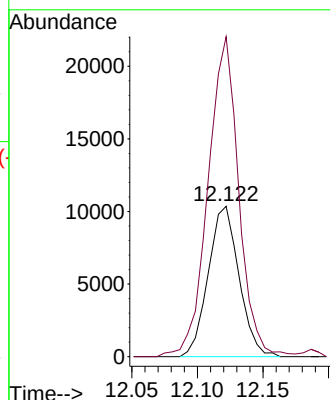
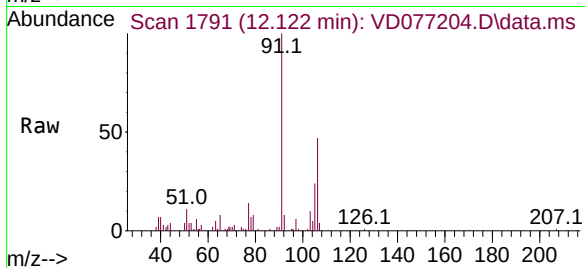
ClientSampleId :

Tgt Ion:106 Resp: 16897

Ion Ratio Lower Upper

106 100

91 212.7 146.9 272.7



#60

Isopropylbenzene

Concen: 3.069 ug/L

RT: 12.828 min Scan# 1911

Delta R.T. 0.406 min

Lab File: VD077204.D

Acq: 22 Sep 2023 17:25

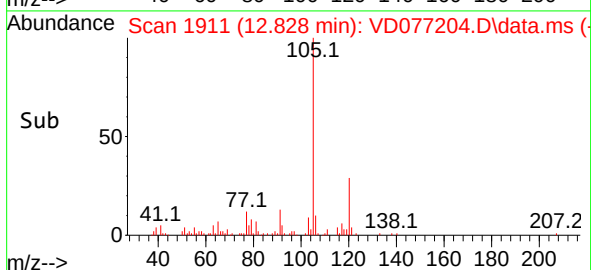
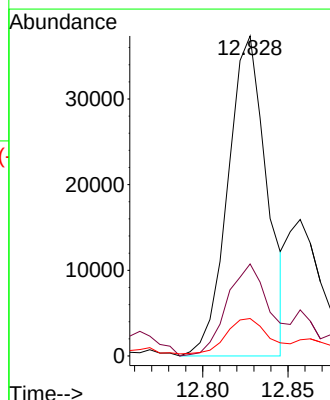
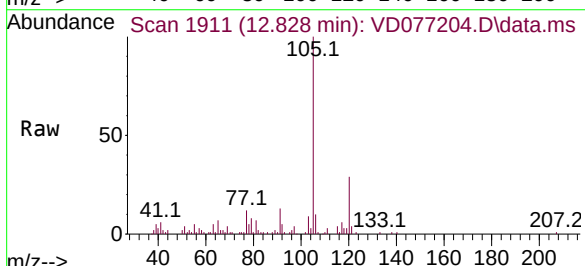
Tgt Ion:105 Resp: 59302

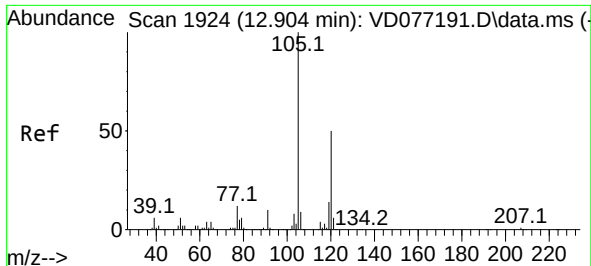
Ion Ratio Lower Upper

105 100

120 32.6 21.8 32.6

77 12.2 11.9 17.9

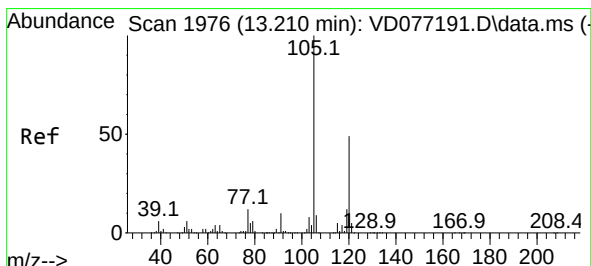
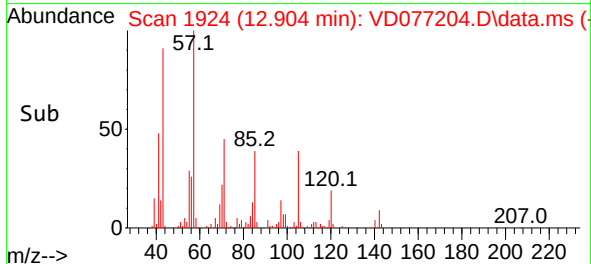
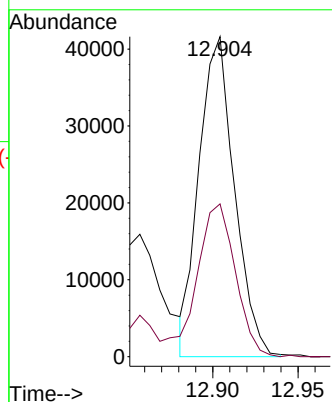
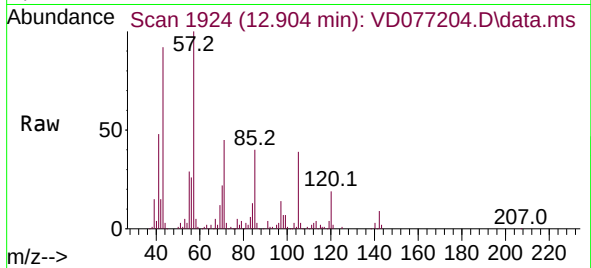




#62
 1,3,5-Trimethylbenzene
 Concen: 4.028 ug/L
 RT: 12.904 min Scan# 1924
 Delta R.T. 0.000 min
 Lab File: VD077204.D
 Acq: 22 Sep 2023 17:25

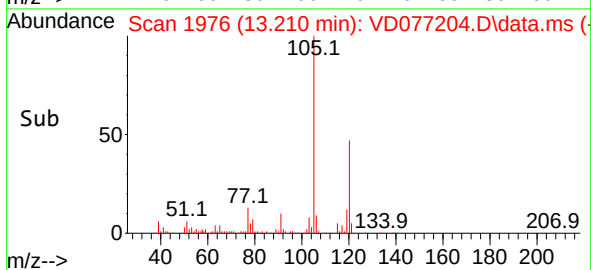
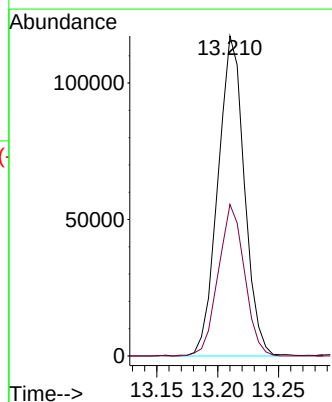
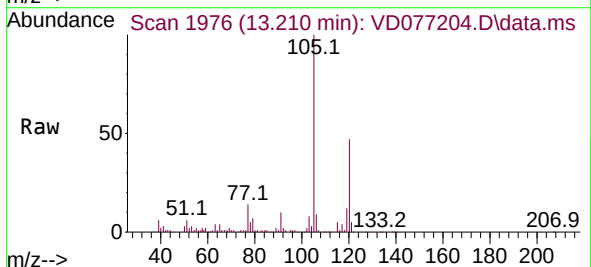
Instrument :
 MSVOA_D
 ClientSampleId :

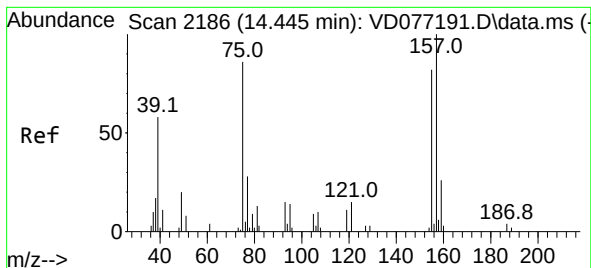
Tgt Ion:105 Resp: 60205
 Ion Ratio Lower Upper
 105 100
 120 52.0 40.2 60.2



#63
 1,2,4-Trimethylbenzene
 Concen: 12.104 ug/L
 RT: 13.210 min Scan# 1976
 Delta R.T. 0.000 min
 Lab File: VD077204.D
 Acq: 22 Sep 2023 17:25

Tgt Ion:105 Resp: 177258
 Ion Ratio Lower Upper
 105 100
 120 47.0 37.8 56.8

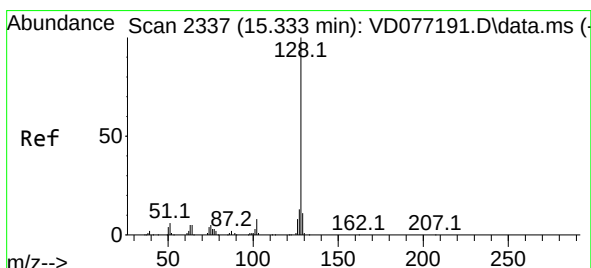
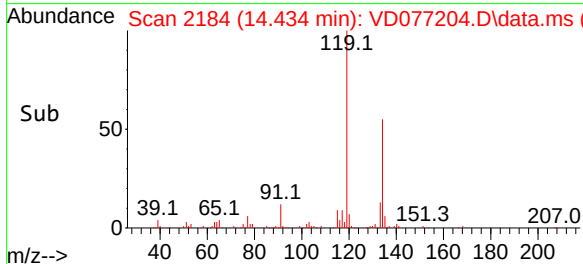
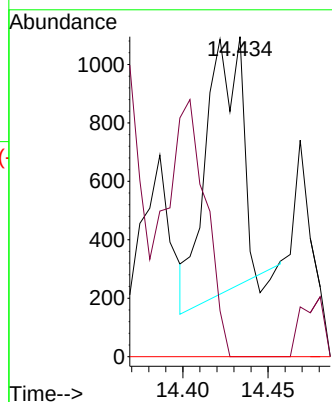
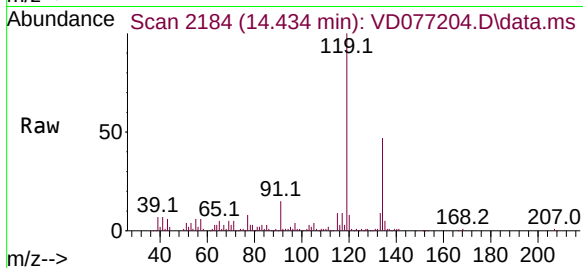




#68
1,2-Dibromo-3-chloropropane
Concen: 2.102 ug/L
RT: 14.434 min Scan# 2186
Delta R.T. -0.012 min
Lab File: VD077204.D
Acq: 22 Sep 2023 17:25

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 1258
Ion Ratio Lower Upper
75 100
155 0.0 79.0 118.6#
157 0.0 100.2 150.4#



#71
Naphthalene
Concen: 29.172 ug/L
RT: 15.328 min Scan# 2336
Delta R.T. -0.006 min
Lab File: VD077204.D
Acq: 22 Sep 2023 17:25

Tgt Ion:128 Resp: 302848
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 10.6 8.6 13.0

