

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD020124\
 Data File : VD078314.D
 Acq On : 01 Feb 2024 19:26
 Operator : RP/MD
 Sample : P1329-11
 Misc : 5.85G/10ml/MSVOA_D/SOIL/VIAL A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Feb 02 00:41:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM020124SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Feb 02 00:36:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.775	114	167344	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	142385	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	48357	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.269	65	111928	23.575	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.280%
7) Chloroethane-d5	2.799	69	92918	23.282	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.120%
11) 1,1-Dichloroethene-d2	3.905	65	21981	21.442	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	85.760%
21) 2-Butanone-d5	6.981	46	36253	51.862	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.720%
24) Chloroform-d	7.569	84	106882	22.401	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.600%
26) 1,2-Dichloroethane-d4	8.228	65	62619	24.319	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.280%
32) Benzene-d6	8.199	84	224791	27.000	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	108.000%
36) 1,2-Dichloropropane-d6	9.210	67	74967	29.248	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	117.000%
41) Toluene-d8	10.269	98	225414	30.143	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	120.560%
43) trans-1,3-Dichloroprop...	10.522	79	32835	28.690	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	114.760%
47) 2-Hexanone-d5	10.875	63	36251	69.709	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	139.420%#
56) 1,1,2,2-Tetrachloroeth...	12.651	84	61312	25.743	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.960%
66) 1,2-Dichlorobenzene-d4	13.816	152	38577	22.283	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.120%
Target Compounds						Qvalue
13) Acetone	3.999	43	50397	54.909	ug/L	49
16) Methylene chloride	4.793	84	8204	2.500	ug/L #	59
22) 2-Butanone	7.069	43	11682	10.512	ug/L #	44
25) Chloroform	7.563	83	1938	0.379	ug/L	93
29) Cyclohexane	7.857	56	325653	101.176	ug/L #	59
33) Benzene	8.246	78	6400	0.667	ug/L	100
34) Trichloroethene	9.028	95	748	0.309	ug/L #	70
35) Methylcyclohexane	9.275	83	499541	131.741	ug/L	91
39) cis-1,3-Dichloropropene	9.975	75	2350	0.597	ug/L	89
42) Toluene	10.334	91	112638	11.284	ug/L	96
44) trans-1,3-Dichloropropene	10.528	75	1733	0.503	ug/L #	45
45) 1,1,2-Trichloroethane	10.710	97	107071	53.131	ug/L #	22
48) 2-Hexanone	10.887	43	170435	133.074	ug/L #	21
49) Dibromochloromethane	10.881	129	708	0.313	ug/L	80
52) Ethylbenzene	11.681	91	2571319	239.791	ug/L	98
53) m,p-Xylene	11.787	106	485055	117.700	ug/L	95
54) o-Xylene	12.122	106	385405	96.980	ug/L	98
55) Styrene	12.122	104	34223	4.774	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.651	83	1854	0.718	ug/L #	73

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ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Feb 02 00:41:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM020124SMA.M
Quant Title : SFAM01.0
QLast Update : Fri Feb 02 00:36:57 2024
Response via : Initial Calibration

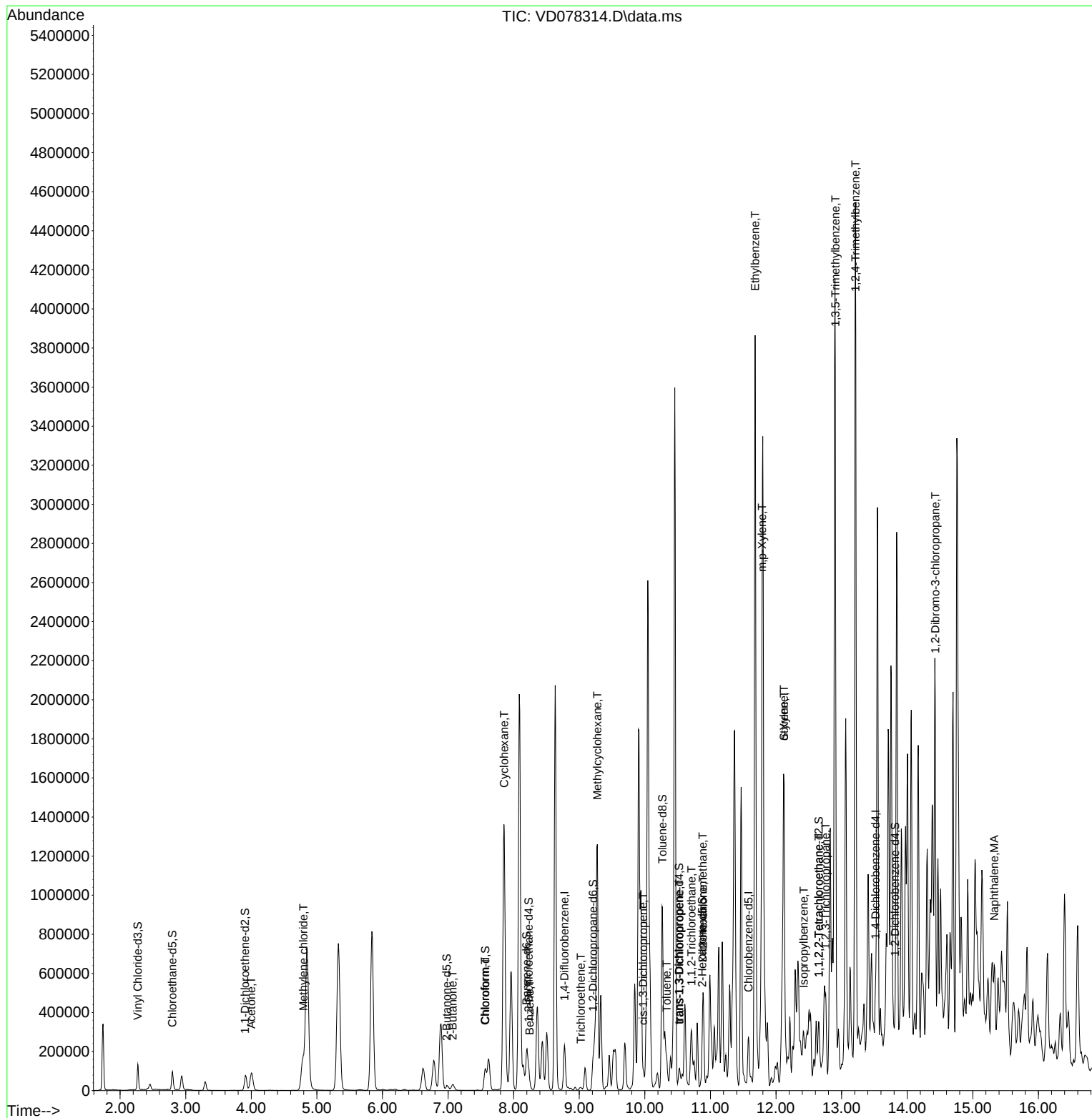
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) Isopropylbenzene	12.422	105	119279	16.324	ug/L	99
61) 1,2,3-Trichloropropane	12.757	75	2188	1.774	ug/L #	1
62) 1,3,5-Trimethylbenzene	12.904	105	1266574	221.608	ug/L	98
63) 1,2,4-Trimethylbenzene	13.210	105	2311460	408.314	ug/L	100
68) 1,2-Dibromo-3-chloropr...	14.428	75	6696	24.501	ug/L #	5
71) Naphthalene	15.328	128	239517	58.921	ug/L	98

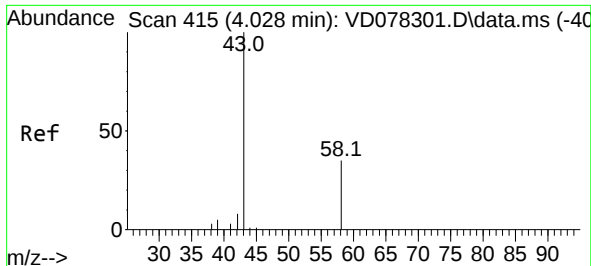
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD078314\
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Quant Title : SFAM01.0
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#13

Acetone

Concen: 54.909 ug/L

RT: 3.999 min Scan# 41

Delta R.T. -0.029 min

Lab File: VD078314.D

Acq: 01 Feb 2024 19:26

Instrument :

MSVOA_D

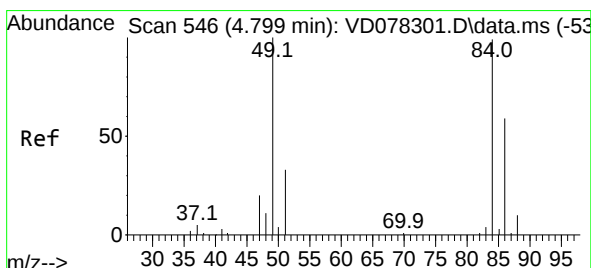
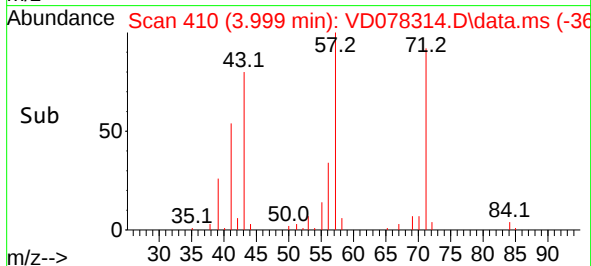
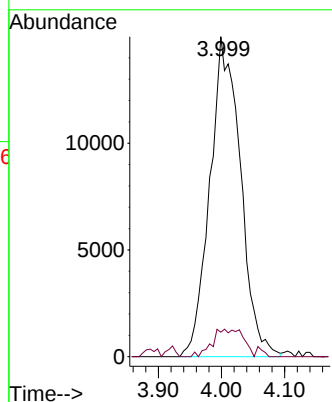
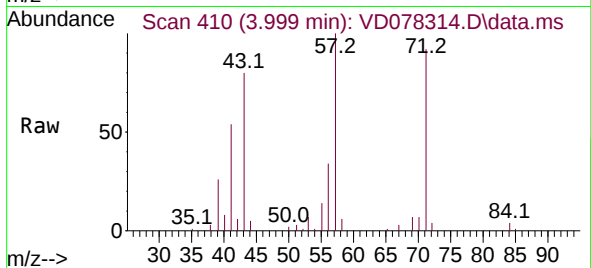
ClientSampleId :

Tgt Ion: 43 Resp: 50397

Ion Ratio Lower Upper

43 100

58 4.6 0.0 67.2



#16

Methylene chloride

Concen: 2.500 ug/L

RT: 4.793 min Scan# 545

Delta R.T. -0.006 min

Lab File: VD078314.D

Acq: 01 Feb 2024 19:26

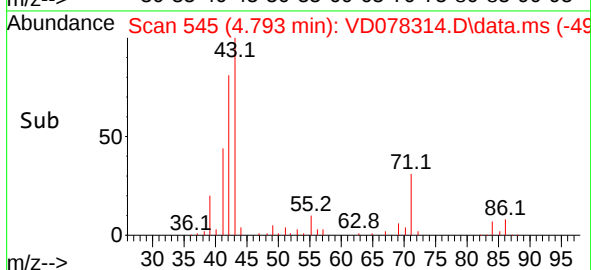
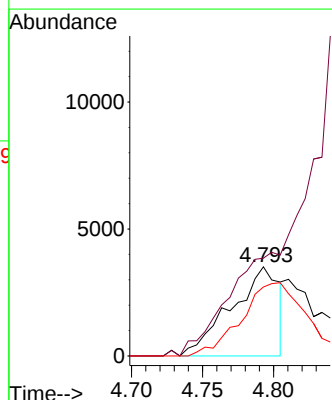
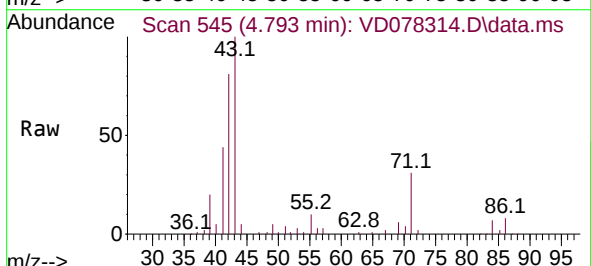
Tgt Ion: 84 Resp: 8204

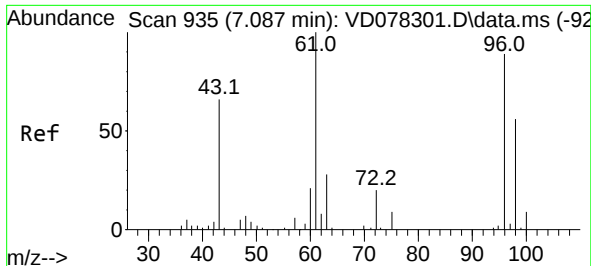
Ion Ratio Lower Upper

84 100

86 109.6 45.4 84.2#

49 77.4 77.3 143.7

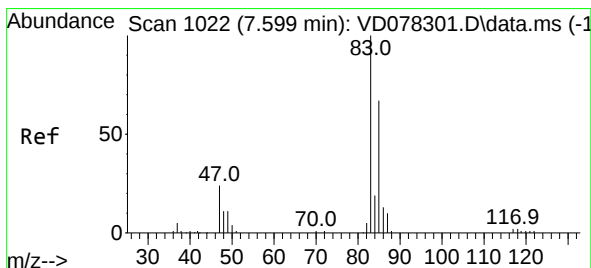
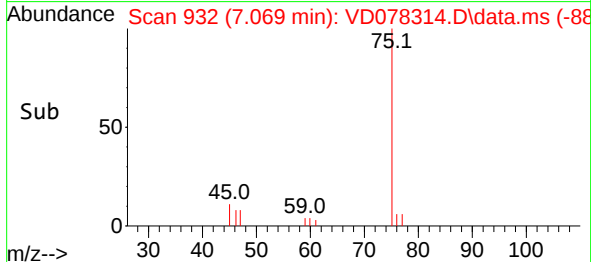
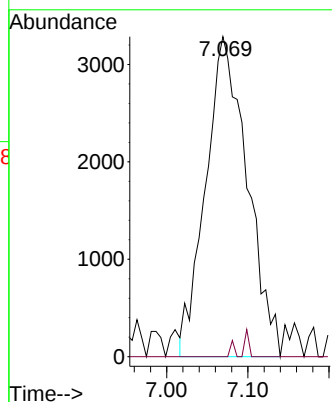
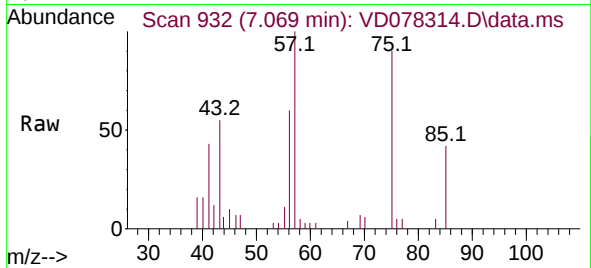




#22
2-Butanone
Concen: 10.512 ug/L
RT: 7.069 min Scan# 91
Delta R.T. -0.018 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

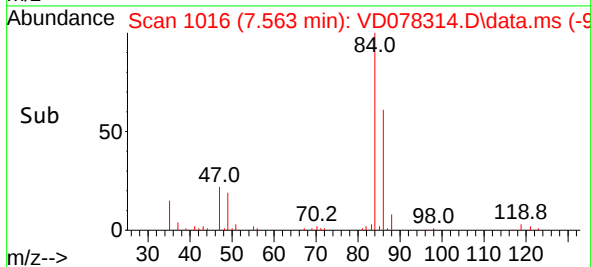
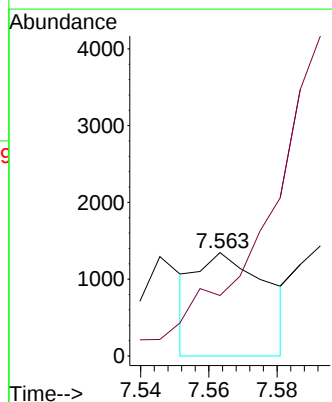
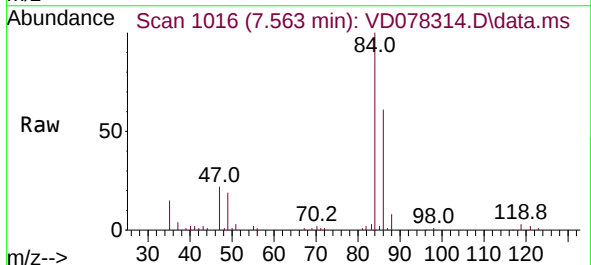
Instrument :
MSVOA_D
ClientSampleId :

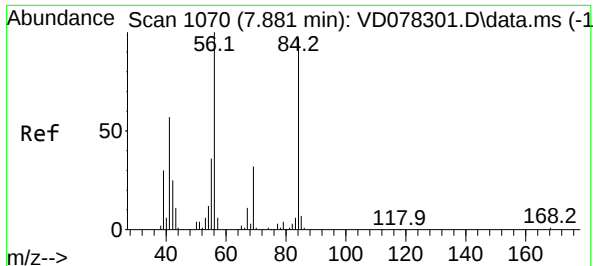
Tgt Ion: 43 Resp: 11682
Ion Ratio Lower Upper
43 100
72 0.0 15.4 46.2#



#25
Chloroform
Concen: 0.379 ug/L
RT: 7.563 min Scan# 1016
Delta R.T. -0.035 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

Tgt Ion: 83 Resp: 1938
Ion Ratio Lower Upper
83 100
85 58.4 44.9 83.3





#29

Cyclohexane

Concen: 101.176 ug/L

RT: 7.857 min Scan# 1066

Delta R.T. -0.024 min

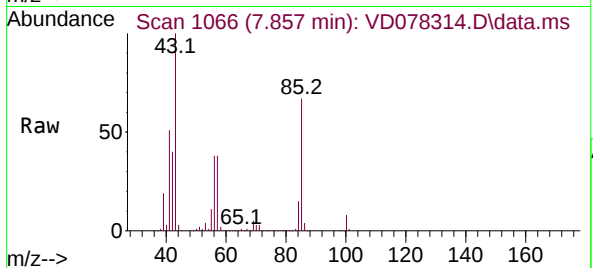
Lab File: VD078314.D

Acq: 01 Feb 2024 19:26

Instrument :

MSVOA_D

ClientSampleId :



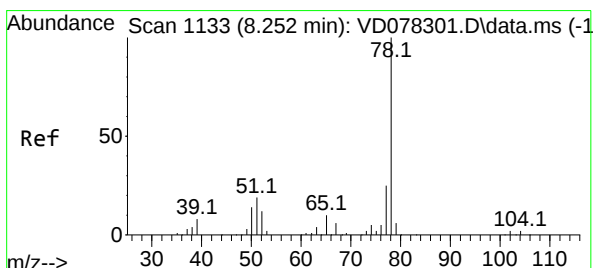
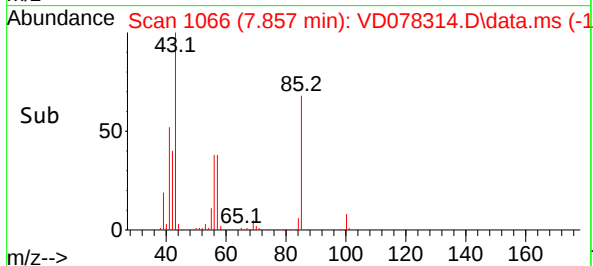
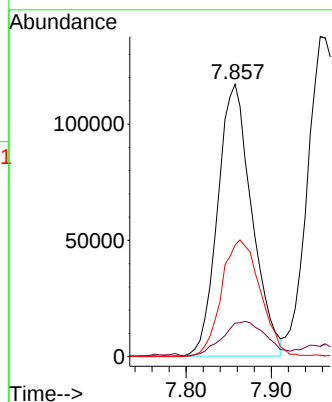
Tgt Ion: 56 Resp: 325653

Ion Ratio Lower Upper

56 100

69 16.3 23.3 34.9#

84 49.0 74.7 112.1#



#33

Benzene

Concen: 0.667 ug/L

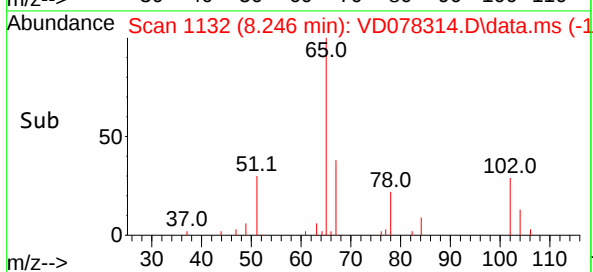
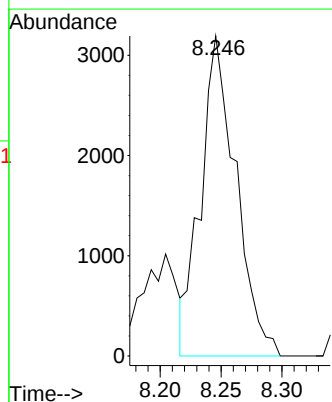
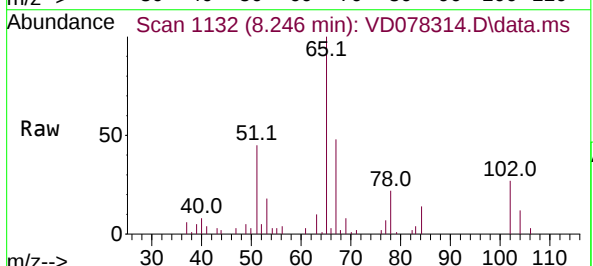
RT: 8.246 min Scan# 1132

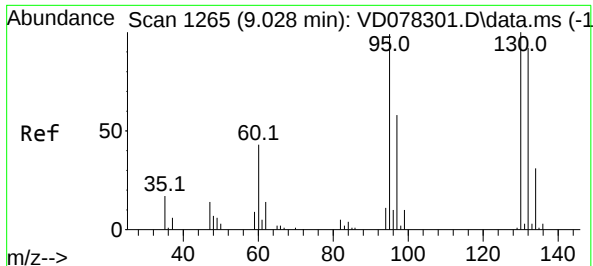
Delta R.T. -0.006 min

Lab File: VD078314.D

Acq: 01 Feb 2024 19:26

Tgt Ion: 78 Resp: 6400



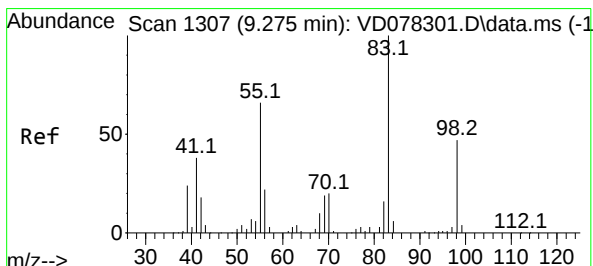
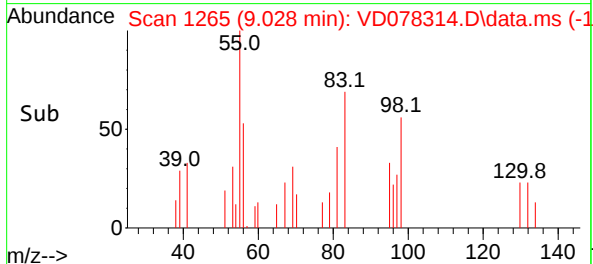
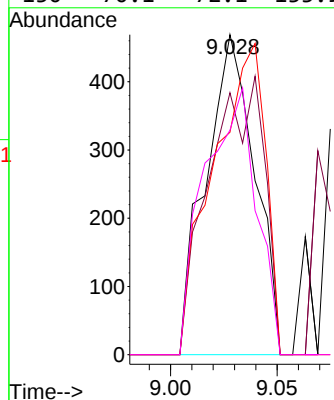
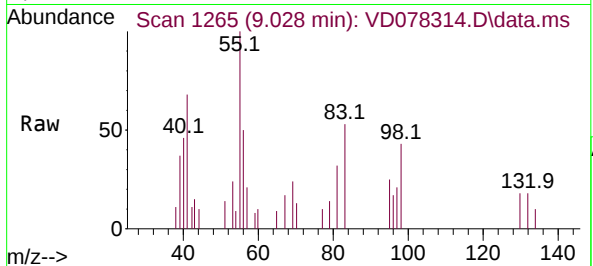


#34
Trichloroethene
Concen: 0.309 ug/L
RT: 9.028 min Scan# 1265
Delta R.T. -0.000 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 95 Resp: 748

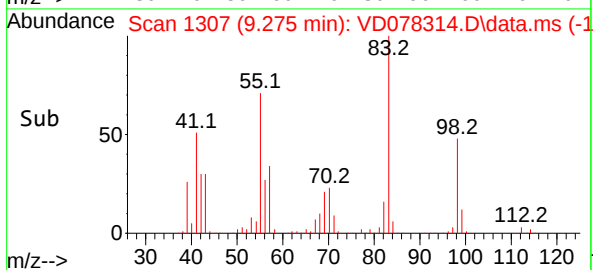
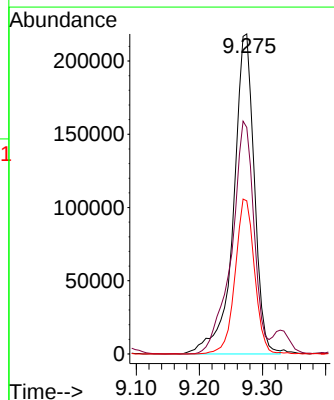
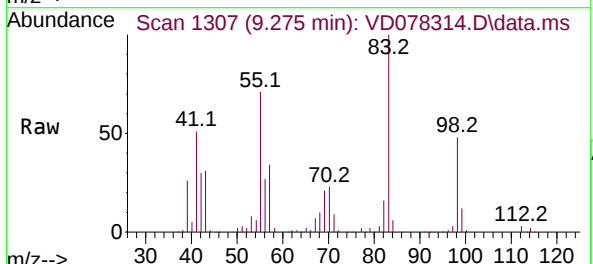
Ion	Ratio	Lower	Upper
95	100		
97	81.9	46.9	87.1
132	69.5	73.7	136.9#
130	70.1	72.1	133.9#

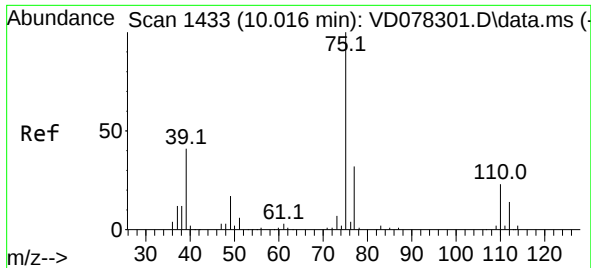


#35
Methylcyclohexane
Concen: 131.741 ug/L
RT: 9.275 min Scan# 1307
Delta R.T. -0.000 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

Tgt Ion: 83 Resp: 499541

Ion	Ratio	Lower	Upper
83	100		
55	78.4	56.2	84.4
98	45.3	41.2	61.8





#39

cis-1,3-Dichloropropene

Concen: 0.597 ug/L

RT: 9.975 min Scan# 1433

Delta R.T. -0.041 min

Lab File: VD078314.D

Acq: 01 Feb 2024 19:26

Instrument :

MSVOA_D

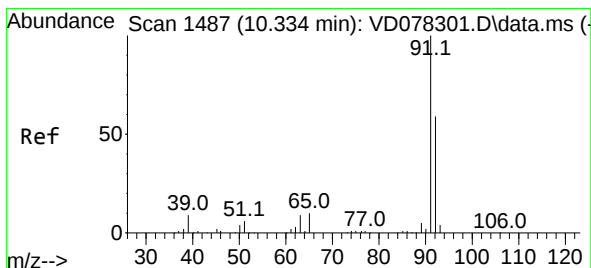
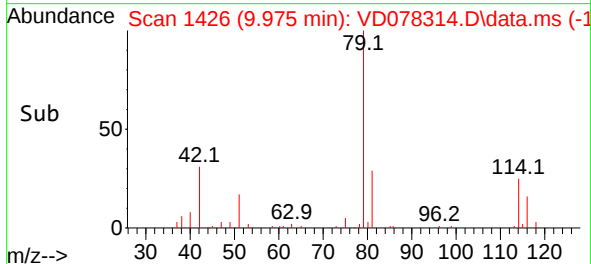
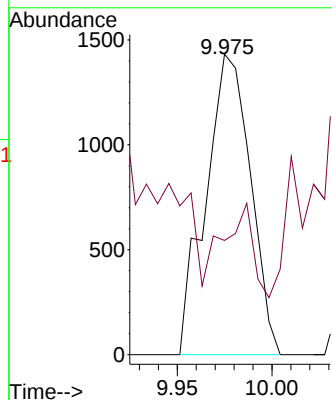
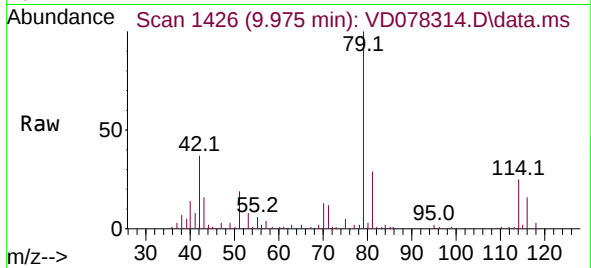
ClientSampleId :

Tgt Ion: 75 Resp: 2350

Ion Ratio Lower Upper

75 100

77 38.0 22.3 41.5



#42

Toluene

Concen: 11.284 ug/L

RT: 10.334 min Scan# 1487

Delta R.T. -0.000 min

Lab File: VD078314.D

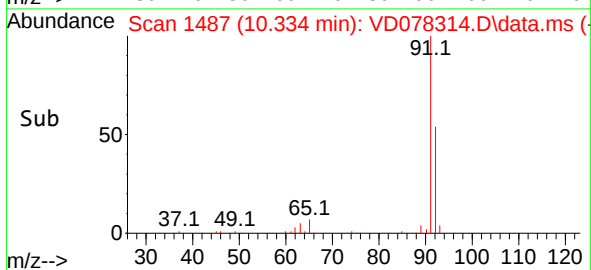
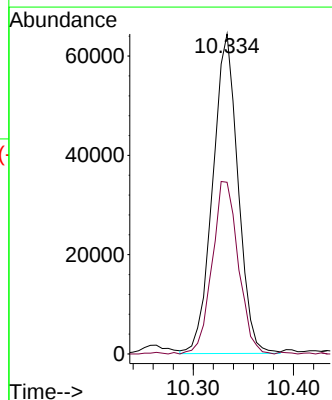
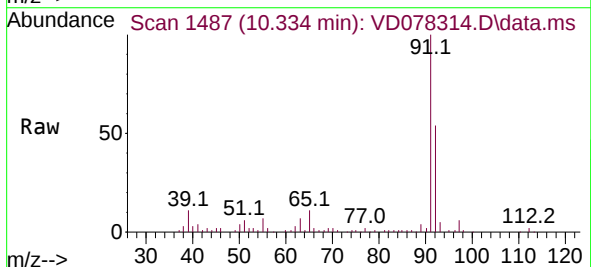
Acq: 01 Feb 2024 19:26

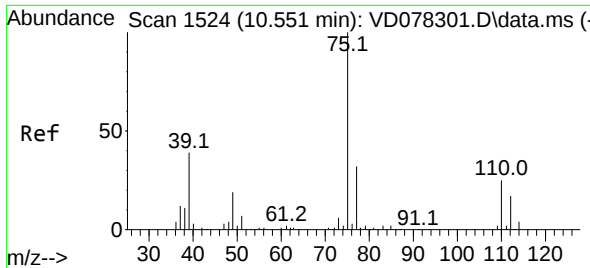
Tgt Ion: 91 Resp: 112638

Ion Ratio Lower Upper

91 100

92 53.7 39.5 73.4

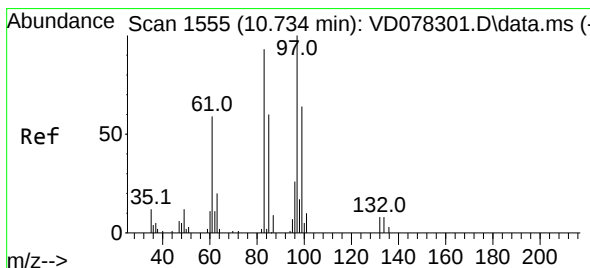
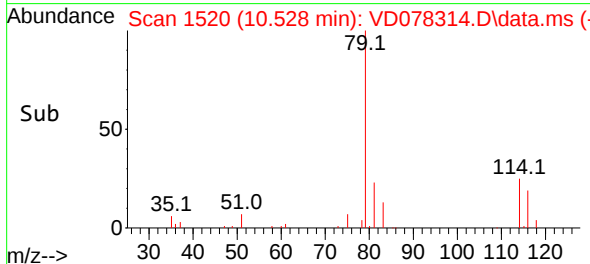
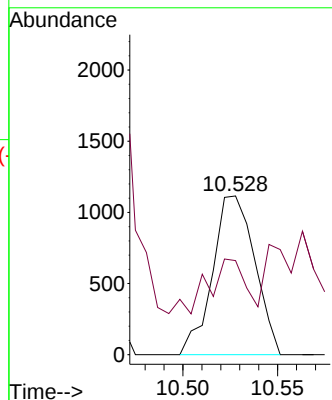
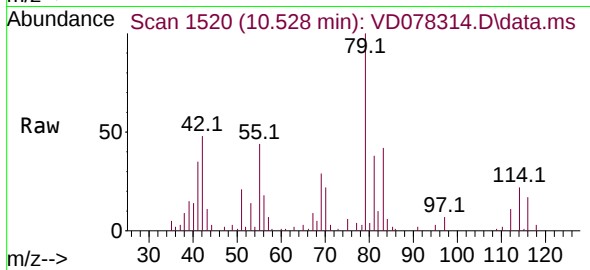




#44
trans-1,3-Dichloropropene
Concen: 0.503 ug/L
RT: 10.528 min Scan# 11
Delta R.T. -0.024 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

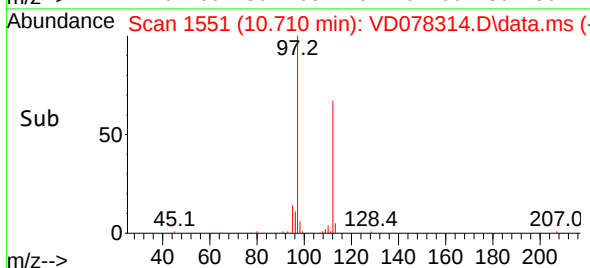
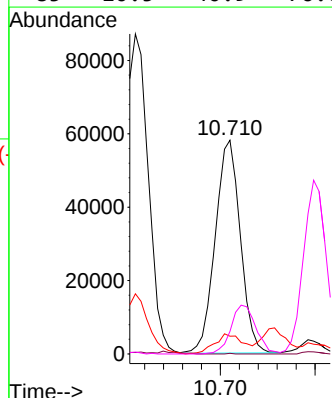
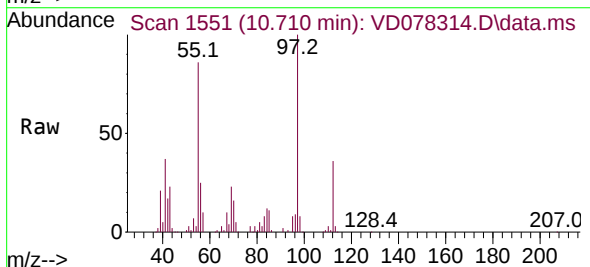
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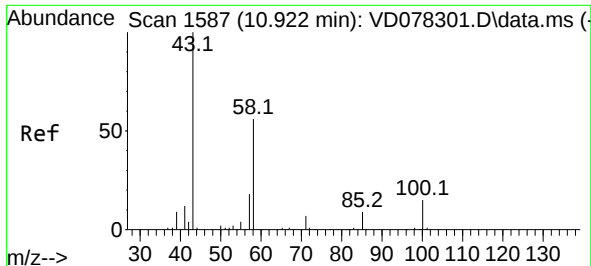
Tgt Ion: 75 Resp: 1733
Ion Ratio Lower Upper
75 100
77 59.3 20.7 38.5#



#45
1,1,2-Trichloroethane
Concen: 53.131 ug/L
RT: 10.710 min Scan# 1551
Delta R.T. -0.024 min
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Tgt Ion: 97 Resp: 107071
Ion Ratio Lower Upper
97 100
99 0.3 45.4 84.4#
83 8.3 59.5 110.5#
85 10.5 40.9 76.0#

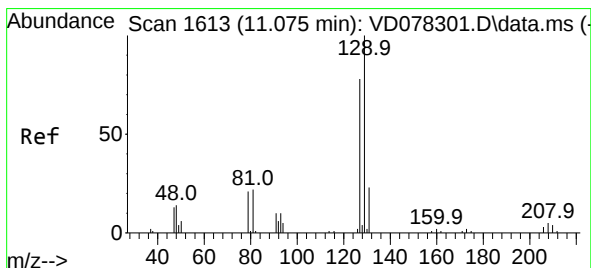
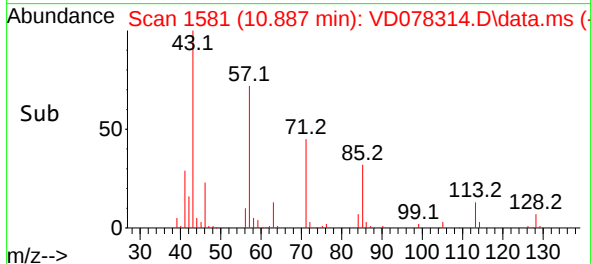
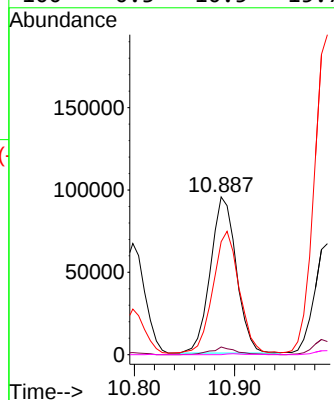
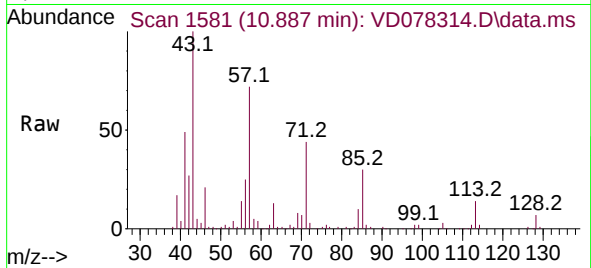




#48
2-Hexanone
Concen: 133.074 ug/L
RT: 10.887 min Scan# 1587
Delta R.T. -0.035 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

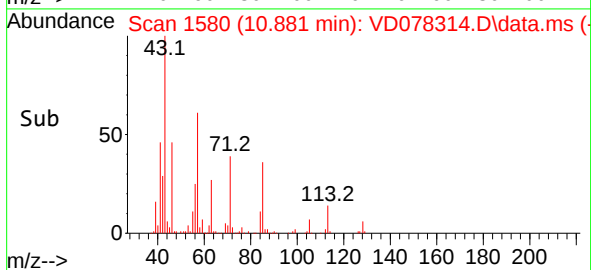
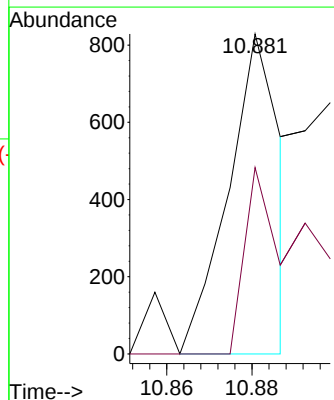
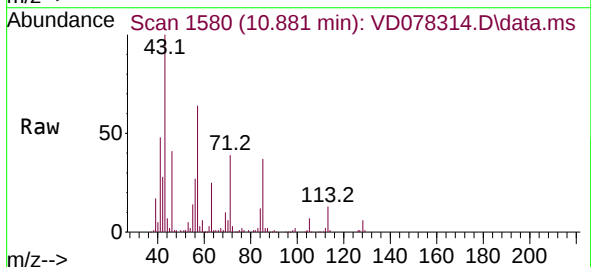
Instrument :
MSVOA_D
ClientSampleId :

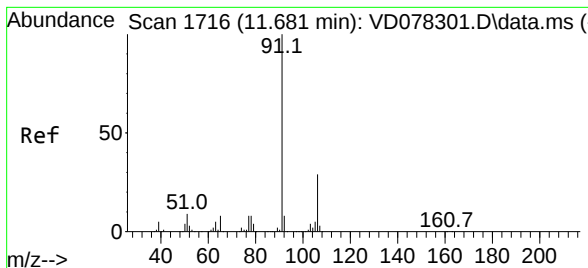
Tgt Ion:	43	Resp:	170435
Ion	Ratio	Lower	Upper
43	100		
58	4.6	48.5	72.7#
57	78.5	15.6	23.4#
100	0.3	10.5	15.7#



#49
Dibromochloromethane
Concen: 0.313 ug/L
RT: 10.881 min Scan# 1580
Delta R.T. -0.194 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

Tgt Ion:	129	Resp:	708
Ion	Ratio	Lower	Upper
129	100		
127	58.3	52.7	97.9

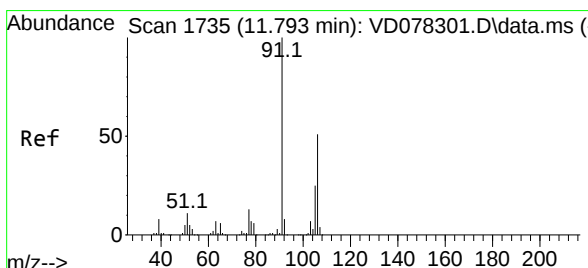
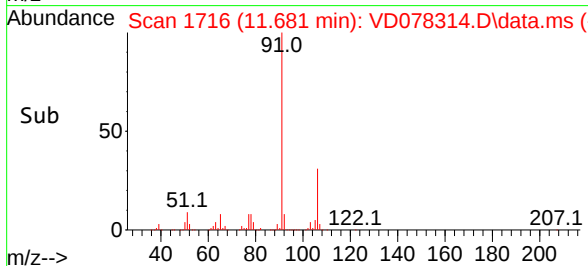
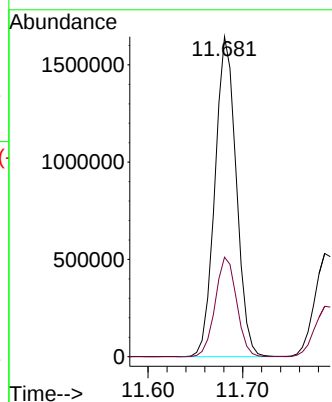
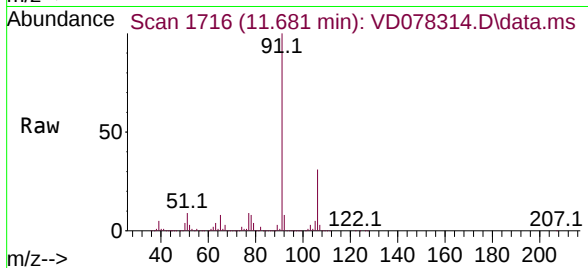




#52
Ethylbenzene
Concen: 239.791 ug/L
RT: 11.681 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

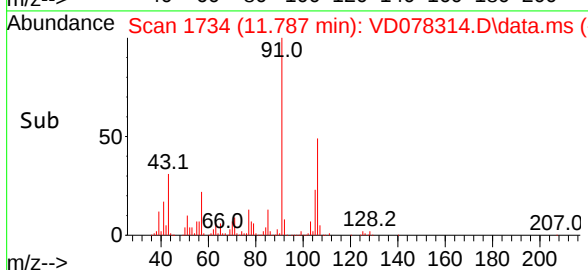
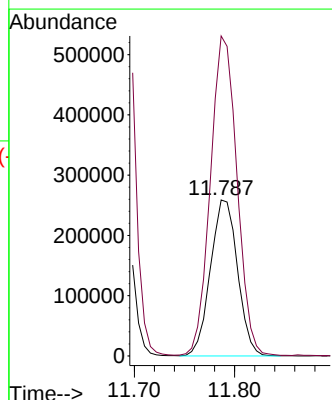
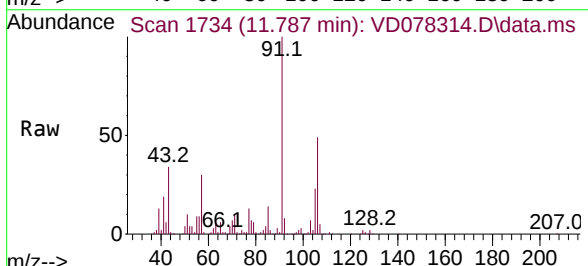
Instrument :
MSVOA_D
ClientSampleId :

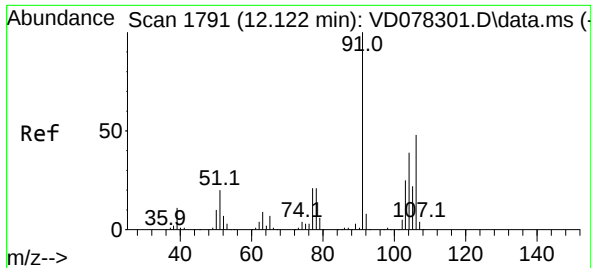
Tgt Ion: 91 Resp: 2571319
Ion Ratio Lower Upper
91 100
106 31.1 22.5 41.7



#53
m,p-Xylene
Concen: 117.700 ug/L
RT: 11.787 min Scan# 1734
Delta R.T. -0.006 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

Tgt Ion:106 Resp: 485055
Ion Ratio Lower Upper
106 100
91 205.1 138.3 256.8

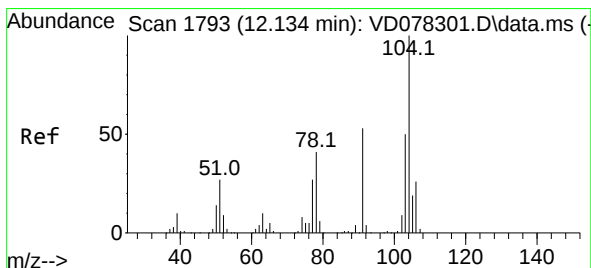
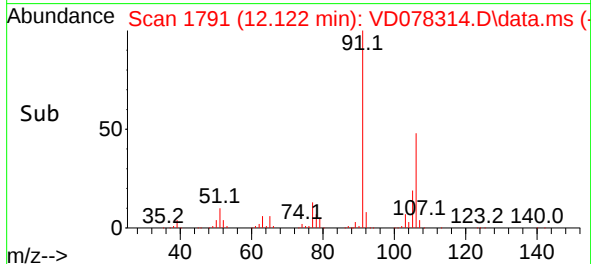
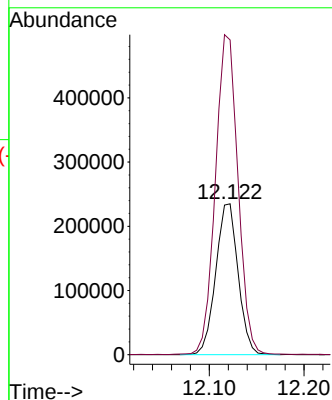
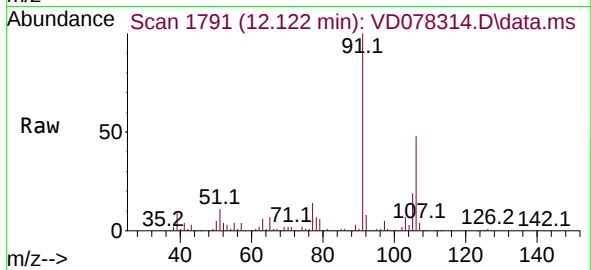




#54
o-Xylene
Concen: 96.980 ug/L
RT: 12.122 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

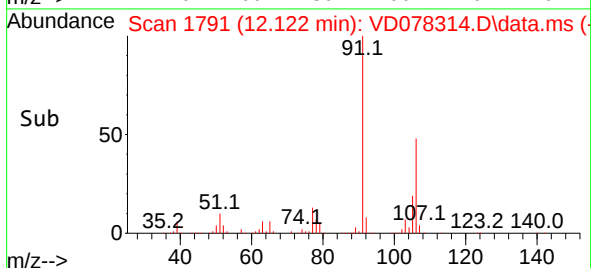
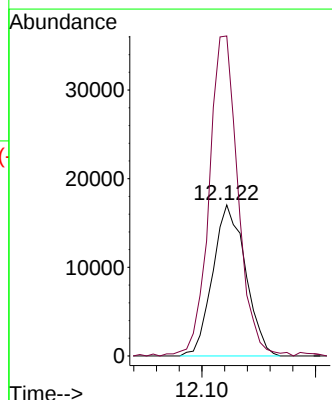
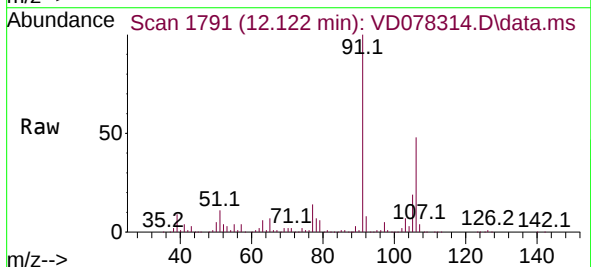
Instrument :
MSVOA_D
ClientSampleId :

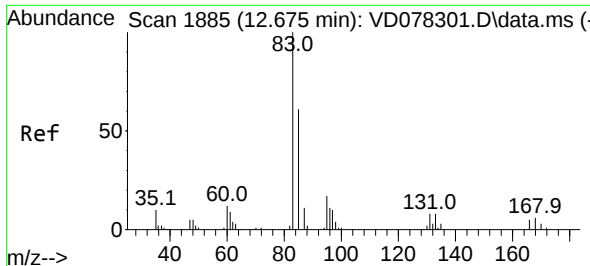
Tgt Ion:106 Resp: 385405
Ion Ratio Lower Upper
106 100
91 208.6 148.0 274.8



#55
Styrene
Concen: 4.774 ug/L
RT: 12.122 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

Tgt Ion:104 Resp: 34223
Ion Ratio Lower Upper
104 100
78 211.8 29.5 54.7#





#57

1,1,2,2-Tetrachloroethane

Concen: 0.718 ug/L

RT: 12.651 min Scan# 1885

Delta R.T. -0.024 min

Lab File: VD078314.D

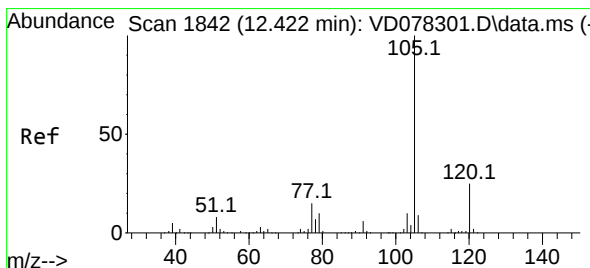
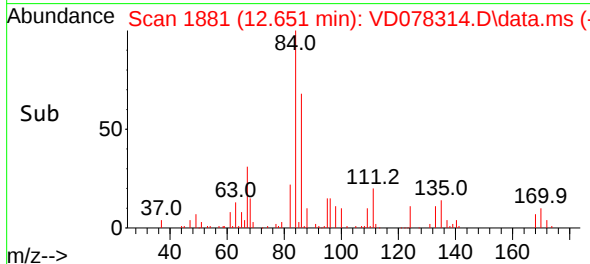
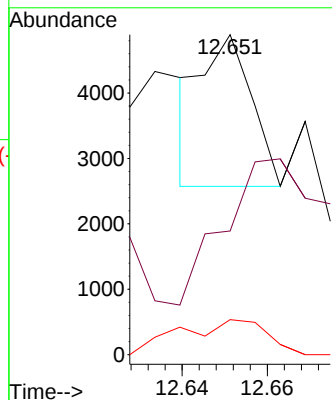
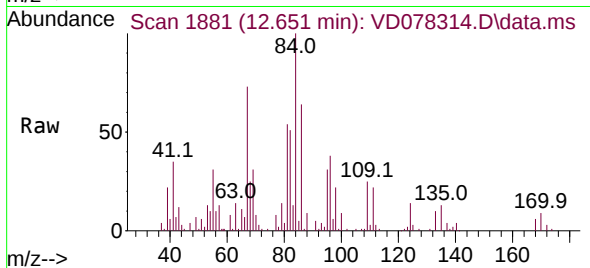
Acq: 01 Feb 2024 19:26

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 83	Resp: 1854
Ion Ratio	Lower Upper
83	100
85	38.7 42.6 79.0#
131	10.9 6.0 9.0#



#60

Isopropylbenzene

Concen: 16.324 ug/L

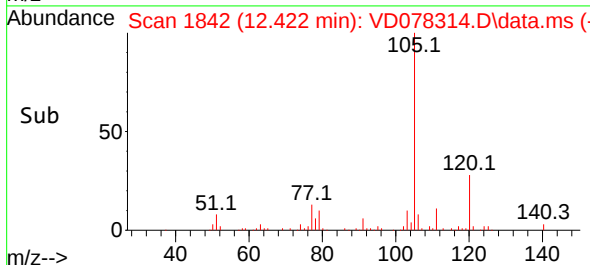
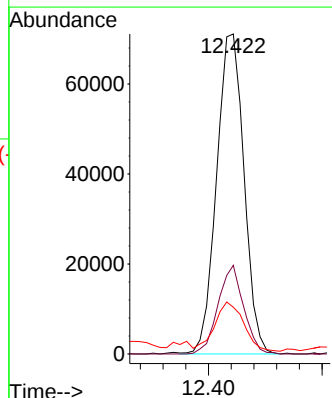
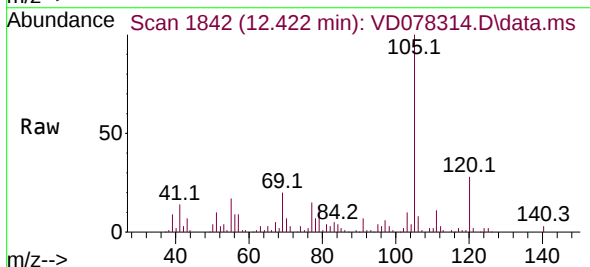
RT: 12.422 min Scan# 1842

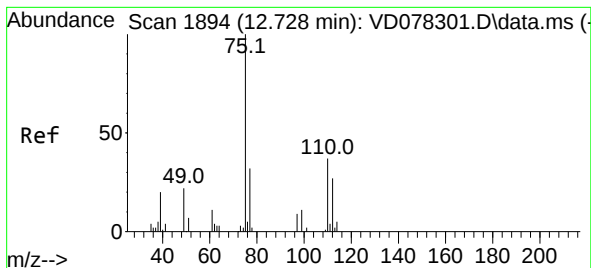
Delta R.T. -0.000 min

Lab File: VD078314.D

Acq: 01 Feb 2024 19:26

Tgt Ion: 105	Resp: 119279
Ion Ratio	Lower Upper
105	100
120	25.8 20.4 30.6
77	16.3 12.4 18.6

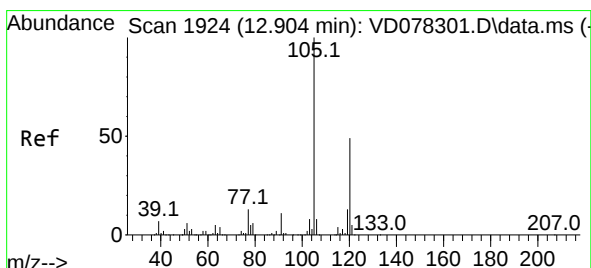
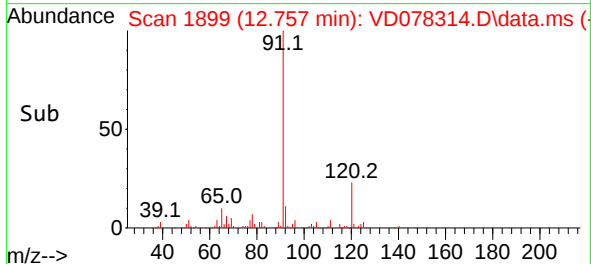
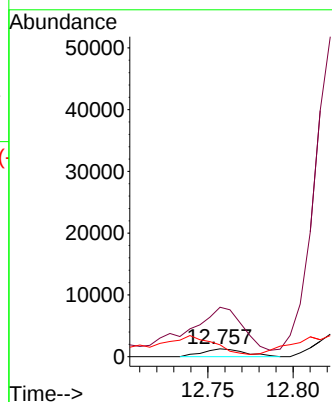
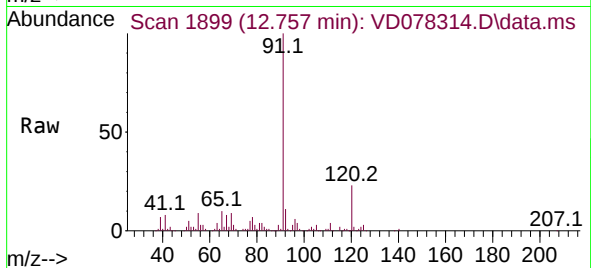




#61
1,2,3-Trichloropropane
Concen: 1.774 ug/L
RT: 12.757 min Scan# 1899
Delta R.T. 0.029 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

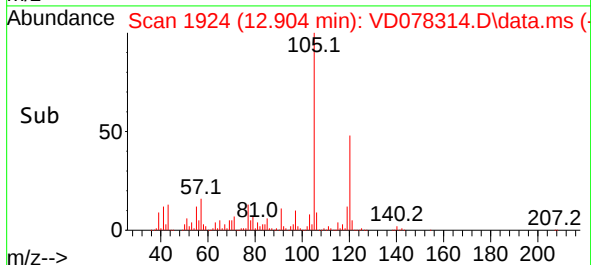
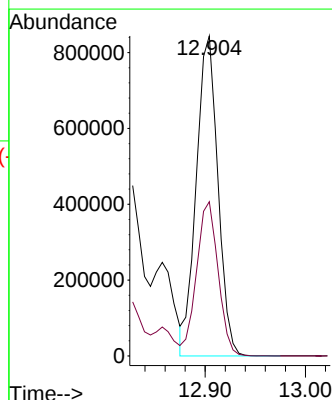
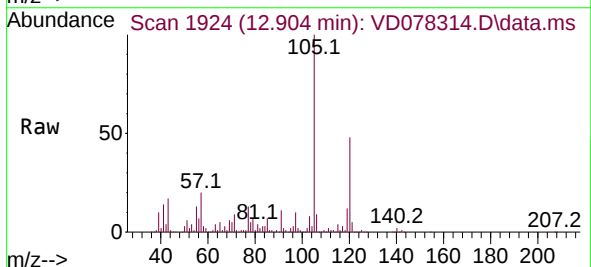
Instrument :
MSVOA_D
ClientSampleId :

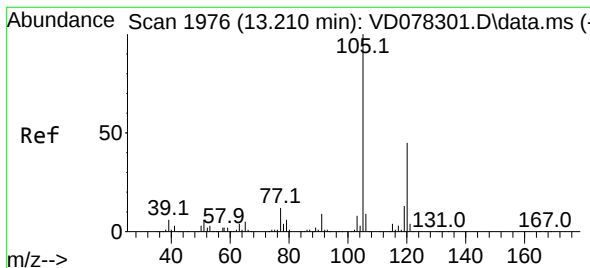
Tgt Ion: 75 Resp: 2188
Ion Ratio Lower Upper
75 100
77 547.9 26.5 39.7#
110 176.0 31.8 47.8#



#62
1,3,5-Trimethylbenzene
Concen: 221.608 ug/L
RT: 12.904 min Scan# 1924
Delta R.T. -0.000 min
Lab File: VD078314.D
Acq: 01 Feb 2024 19:26

Tgt Ion:105 Resp: 1266574
Ion Ratio Lower Upper
105 100
120 48.1 39.5 59.3





#63

1,2,4-Trimethylbenzene

Concen: 408.314 ug/L

RT: 13.210 min Scan# 1976

Delta R.T. -0.000 min

Lab File: VD078314.D

Acq: 01 Feb 2024 19:26

Instrument :

MSVOA_D

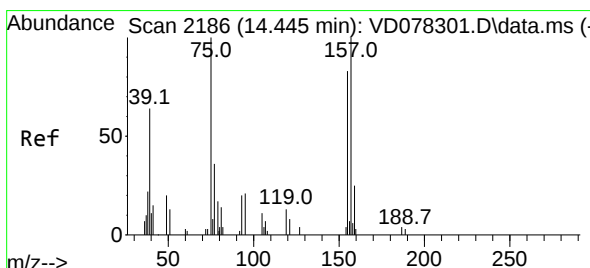
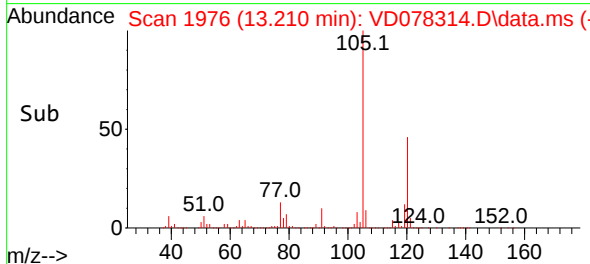
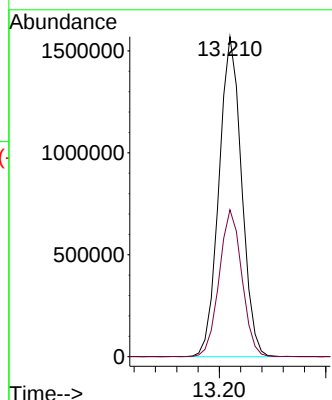
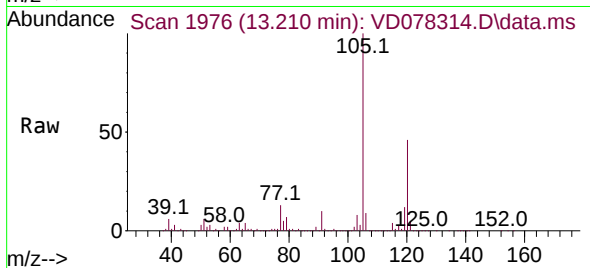
ClientSampleId :

Tgt Ion:105 Resp: 2311460

Ion Ratio Lower Upper

105 100

120 45.9 37.0 55.4



#68

1,2-Dibromo-3-chloropropane

Concen: 24.501 ug/L

RT: 14.428 min Scan# 2183

Delta R.T. -0.018 min

Lab File: VD078314.D

Acq: 01 Feb 2024 19:26

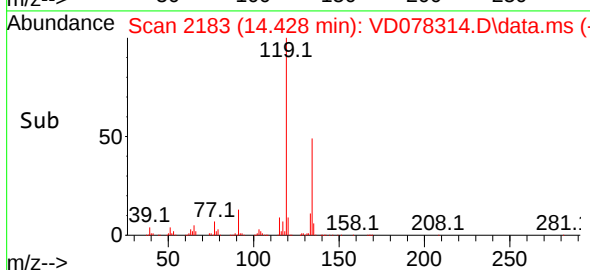
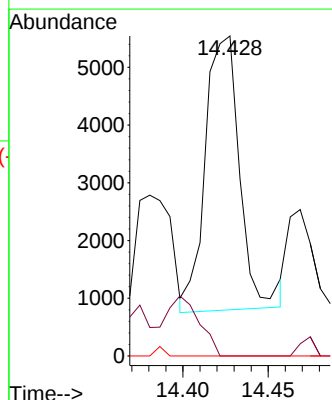
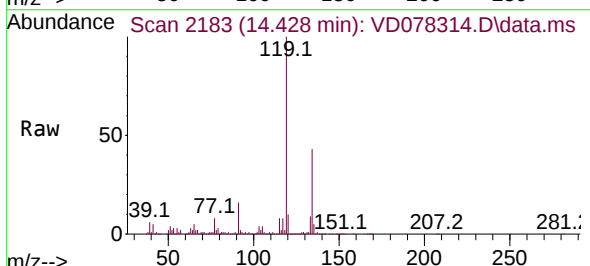
Tgt Ion: 75 Resp: 6696

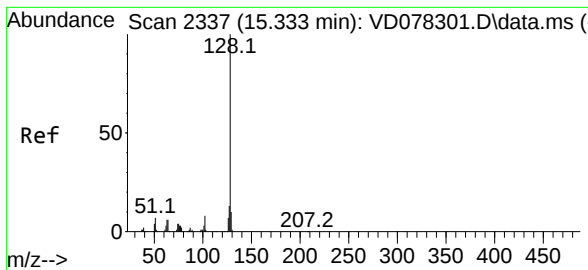
Ion Ratio Lower Upper

75 100

155 0.0 61.6 92.4#

157 0.0 78.1 117.1#





#71

Naphthalene

Concen: 58.921 ug/L

RT: 15.328 min Scan# 21

Delta R.T. -0.006 min

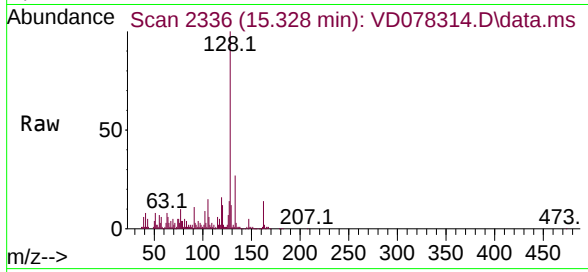
Lab File: VD078314.D

Acq: 01 Feb 2024 19:26

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:128 Resp: 239517

Ion Ratio Lower Upper

128 100

127 13.1 11.0 16.4

129 10.0 8.6 12.8

