

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD080423\
 Data File : VD076922.D
 Acq On : 04 Aug 2023 11:56
 Operator : KP/SY
 Sample : VD0804SBL01
 Misc : 5.00G/10ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VBLK141

Quant Time: Aug 05 00:17:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM080323SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Aug 04 02:21:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.775	114	280282	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.581	117	275044	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.516	152	127881	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.269	65	143901	18.669	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.680%
7) Chloroethane-d5	2.799	69	139621	19.594	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.360%
11) 1,1-Dichloroethene-d2	3.916	65	35571	19.476	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	77.920%
21) 2-Butanone-d5	6.987	46	53435	43.179	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	86.360%
24) Chloroform-d	7.569	84	184239	20.186	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	80.760%
26) 1,2-Dichloroethane-d4	8.228	65	94519	20.775	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	83.080%
32) Benzene-d6	8.198	84	381139	22.040	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	88.160%
36) 1,2-Dichloropropane-d6	9.210	67	115763	21.773	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	87.080%
41) Toluene-d8	10.269	98	337827	21.308	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	85.240%
43) trans-1,3-Dichloroprop...	10.528	79	49060	20.410	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	81.640%
47) 2-Hexanone-d5	10.875	63	44835	44.146	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.300%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	107816	20.986	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	83.960%
66) 1,2-Dichlorobenzene-d4	13.816	152	107795	23.057	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.240%
Target Compounds						Qvalue
3) Chloromethane	2.146	50	2017	0.335	ug/L	99
5) Vinyl chloride	2.275	62	2767	0.321	ug/L #	1
8) Chloroethane	2.840	64	1859	0.320	ug/L #	73
10) 1,1,2-Trichloro-1,2,2-...	3.975	101	1630	0.351	ug/L #	32
16) Methylene chloride	4.799	84	18405	3.130	ug/L	77
25) Chloroform	7.593	83	4604	0.539	ug/L	88
27) 1,2-Dichloroethane	8.334	62	1826	0.341	ug/L #	71
31) Carbon tetrachloride	7.987	117	1732	0.311	ug/L #	36
33) Benzene	8.251	78	5842	0.324	ug/L	100
35) Methylcyclohexane	9.269	83	2344	0.306	ug/L #	65
37) 1,2-Dichloropropane	9.310	63	1791	0.391	ug/L #	88
40) 4-Methyl-2-pentanone	10.157	43	1890	0.655	ug/L #	86
42) Toluene	10.334	91	7061	0.360	ug/L	78
46) Tetrachloroethene	10.810	164	993	0.281	ug/L #	87
50) 1,2-Dibromoethane	11.181	107	1599	0.403	ug/L #	74
51) Chlorobenzene	11.610	112	4671	0.366	ug/L #	90
52) Ethylbenzene	11.687	91	6767	0.324	ug/L	92
53) m,p-Xylene	11.792	106	2218	0.275	ug/L	81
55) Styrene	12.134	104	4265	0.304	ug/L #	73

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 Quant Title : SFAM01.0
 QLast Update : Fri Aug 04 02:21:25 2023
 Response via : Initial Calibration

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

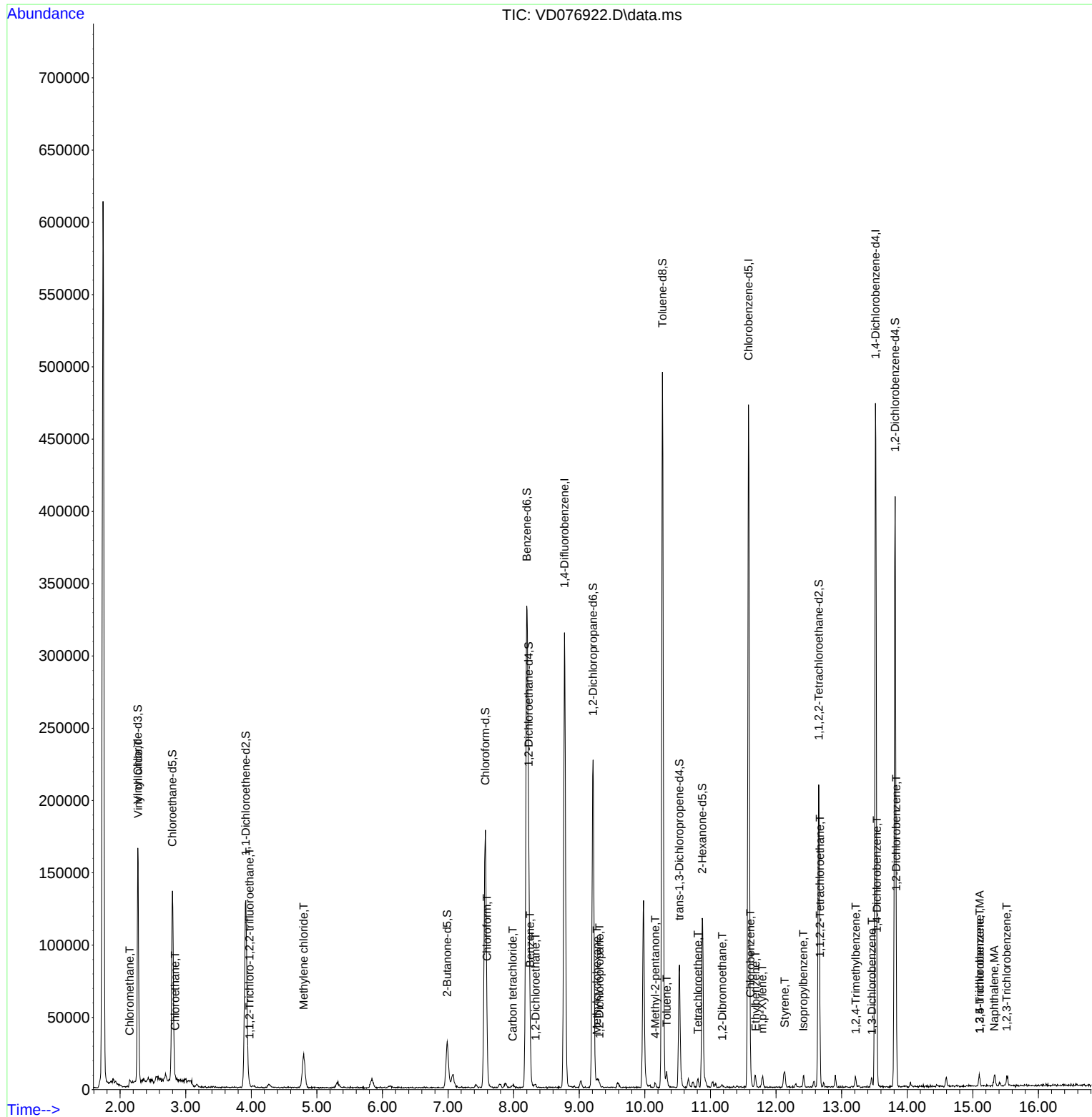
57) 1,1,2,2-Tetrachloroethane	12.669	83	2427	0.482	ug/L #	71
60) Isopropylbenzene	12.416	105	5651	0.307	ug/L #	89
63) 1,2,4-Trimethylbenzene	13.216	105	3906	0.280	ug/L	96
64) 1,3-Dichlorobenzene	13.463	146	3263	0.389	ug/L #	89
65) 1,4-Dichlorobenzene	13.539	146	4146	0.478	ug/L #	69
67) 1,2-Dichlorobenzene	13.833	146	3667	0.466	ug/L #	85
69) 1,3,5-Trichlorobenzene	15.104	180	2758	0.525	ug/L	95
70) 1,2,4-trichlorobenzene	15.104	180	2758	0.597	ug/L	94
71) Naphthalene	15.328	128	7928	0.730	ug/L #	90
72) 1,2,3-Trichlorobenzene	15.516	180	2647	0.632	ug/L	91

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

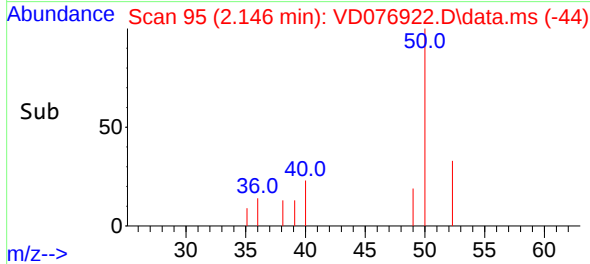
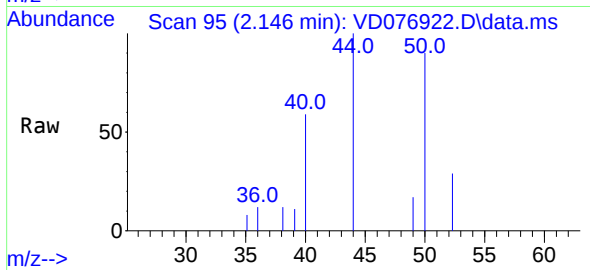
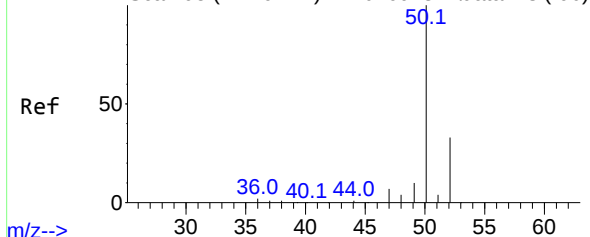
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Abundance Scan 95 (2.146 min): VD076913.D\data.ms (-90)



#3

Chloromethane

Concen: 0.335 ug/L

RT: 2.146 min Scan# 90

Delta R.T. -0.000 min

Lab File: VD076922.D

Acq: 04 Aug 2023 11:56

Instrument :

MSVOA_D

ClientSampleId :

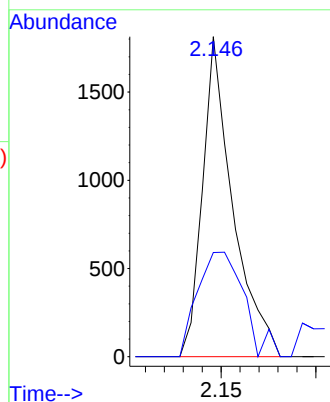
VBLK141

Tgt Ion: 50 Resp: 2017

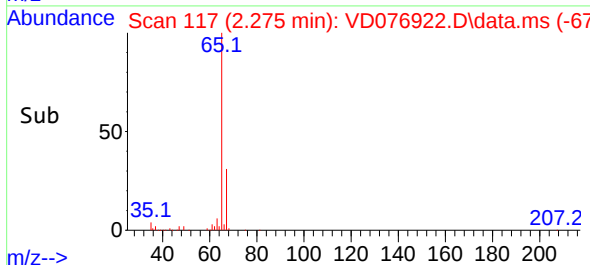
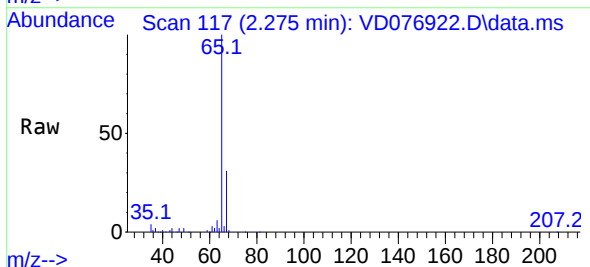
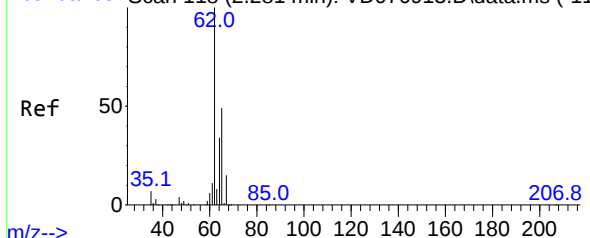
Ion Ratio Lower Upper

50 100

52 32.6 23.2 43.2



Abundance Scan 118 (2.281 min): VD076913.D\data.ms (-11)



#5

Vinyl chloride

Concen: 0.321 ug/L

RT: 2.275 min Scan# 117

Delta R.T. -0.006 min

Lab File: VD076922.D

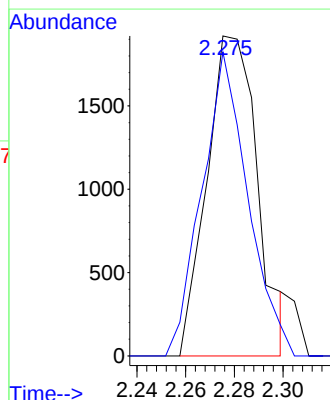
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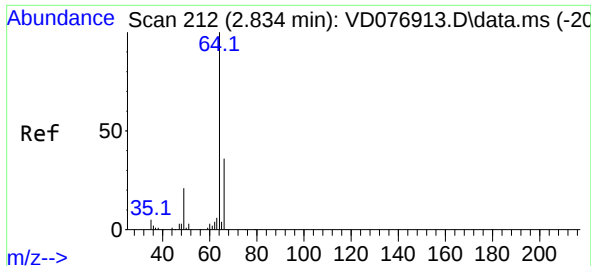
Tgt Ion: 62 Resp: 2767

Ion Ratio Lower Upper

62 100

64 95.0 21.1 39.1#

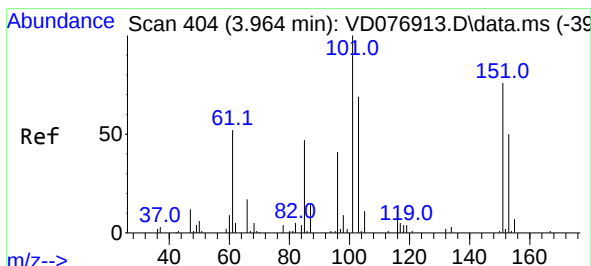
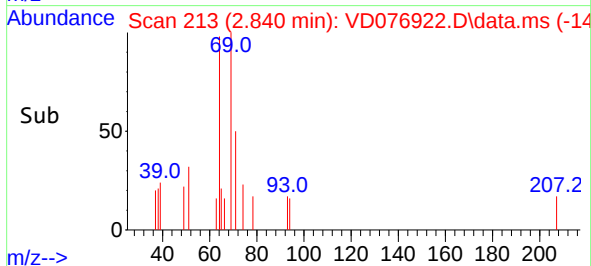
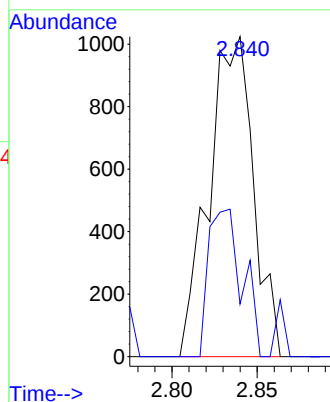
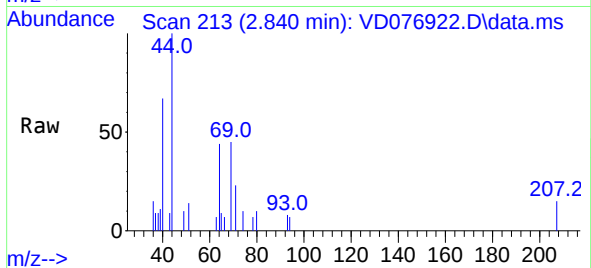




#8
Chloroethane
Concen: 0.320 ug/L
RT: 2.840 min Scan# 212
Delta R.T. 0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

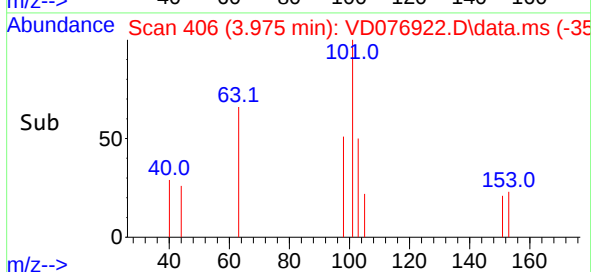
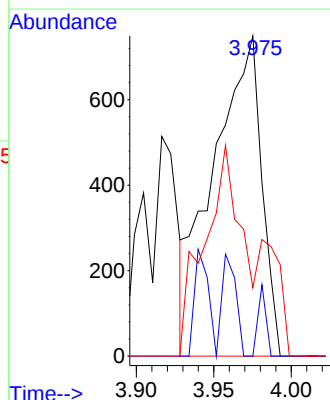
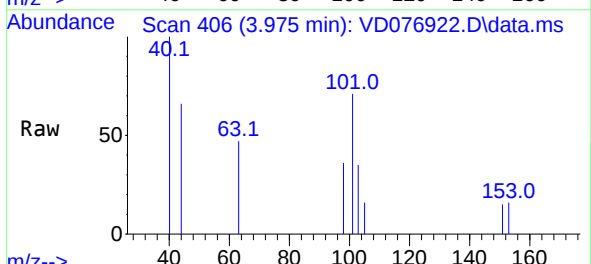
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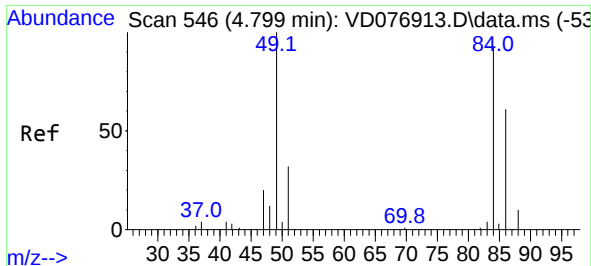
Tgt Ion: 64 Resp: 1859
Ion Ratio Lower Upper
64 100
66 16.4 22.1 41.1#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.351 ug/L
RT: 3.975 min Scan# 406
Delta R.T. 0.012 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

Tgt Ion:101 Resp: 1630
Ion Ratio Lower Upper
101 100
85 0.0 35.5 53.3#
151 16.1 58.6 87.8#

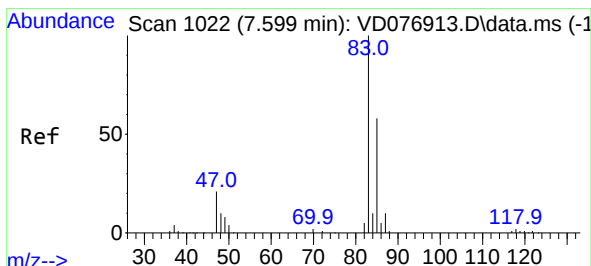
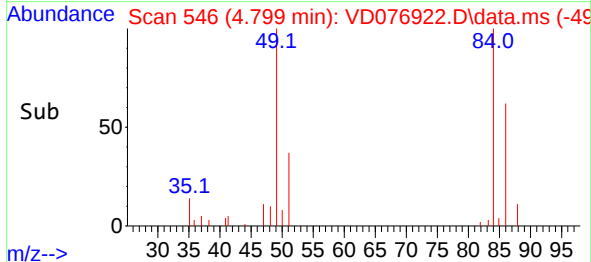
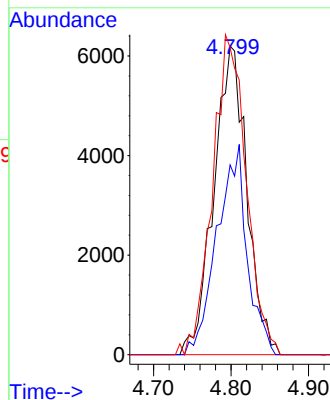
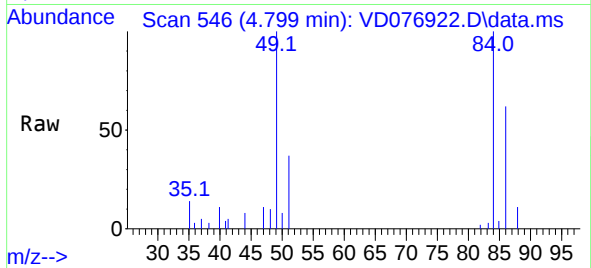




#16
Methylene chloride
Concen: 3.130 ug/L
RT: 4.799 min Scan# 54
Delta R.T. -0.000 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

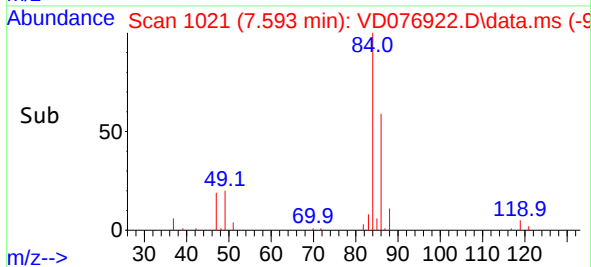
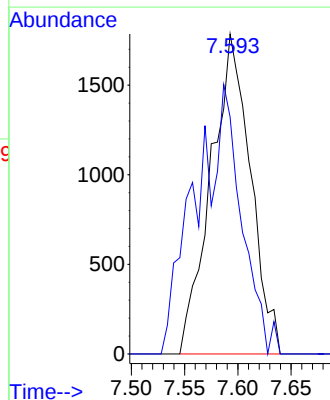
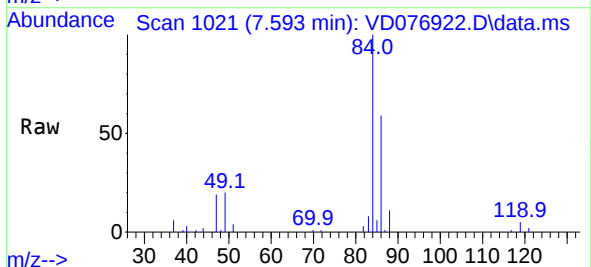
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ClientSampleId :
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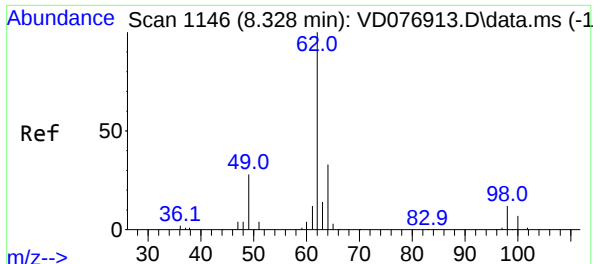
Tgt Ion: 84 Resp: 18405
Ion Ratio Lower Upper
84 100
86 61.5 45.1 83.9
49 99.5 97.2 180.6



#25
Chloroform
Concen: 0.539 ug/L
RT: 7.593 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

Tgt Ion: 83 Resp: 4604
Ion Ratio Lower Upper
83 100
85 74.0 45.4 84.4

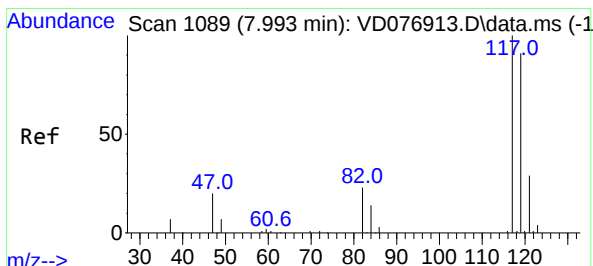
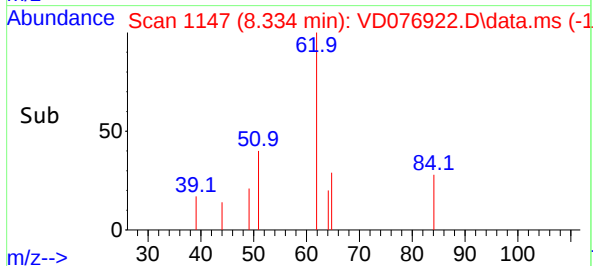
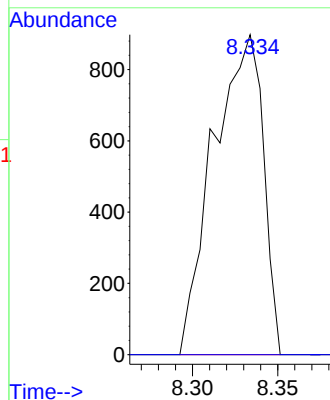
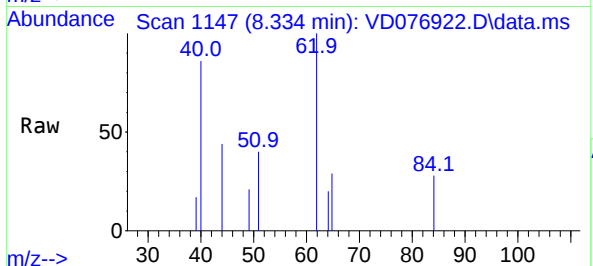




#27
1,2-Dichloroethane
Concen: 0.341 ug/L
RT: 8.334 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

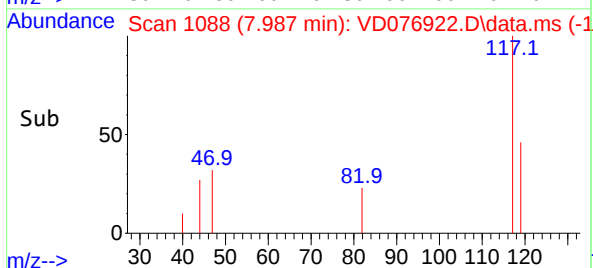
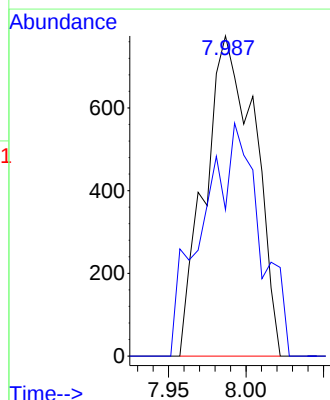
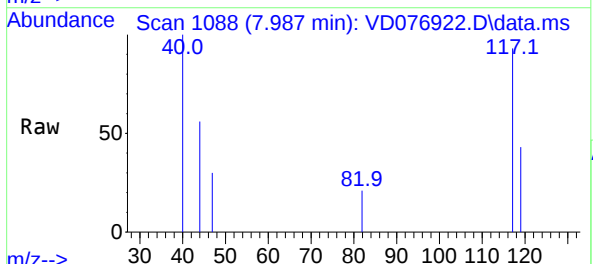
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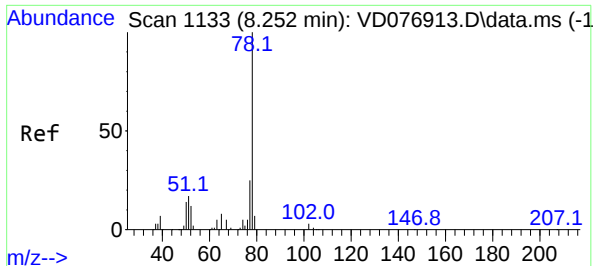
Tgt Ion: 62 Resp: 1826
Ion Ratio Lower Upper
62 100
98 0.0 8.7 13.1#



#31
Carbon tetrachloride
Concen: 0.311 ug/L
RT: 7.987 min Scan# 1088
Delta R.T. -0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

Tgt Ion: 117 Resp: 1732
Ion Ratio Lower Upper
117 100
119 34.4 77.8 116.6#

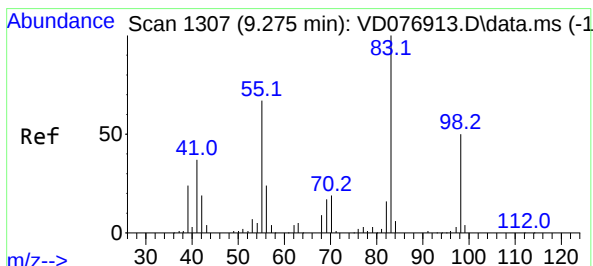
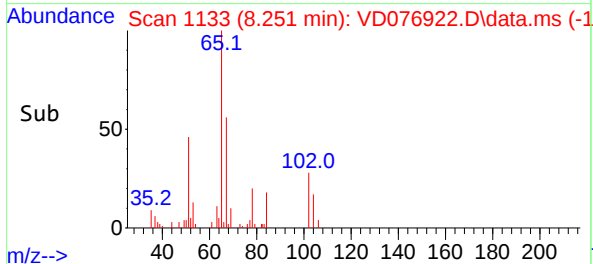
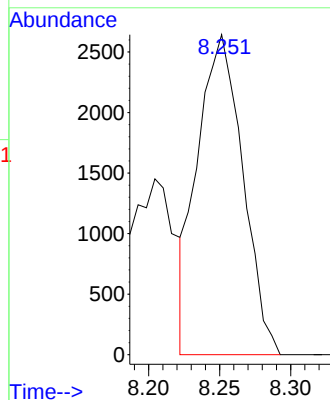
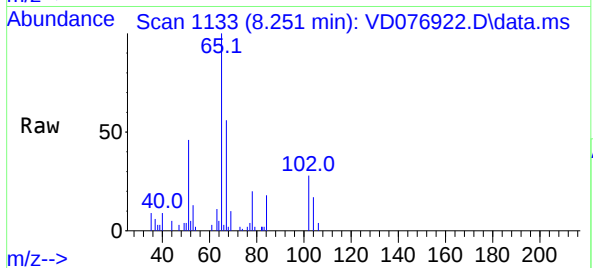




#33
Benzene
Concen: 0.324 ug/L
RT: 8.251 min Scan# 1133
Delta R.T. -0.000 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

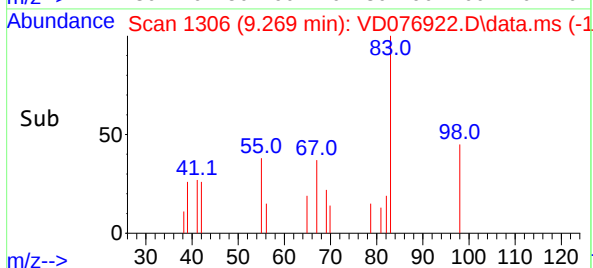
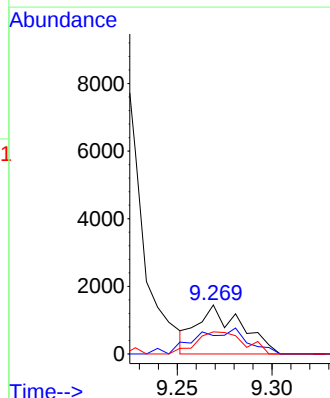
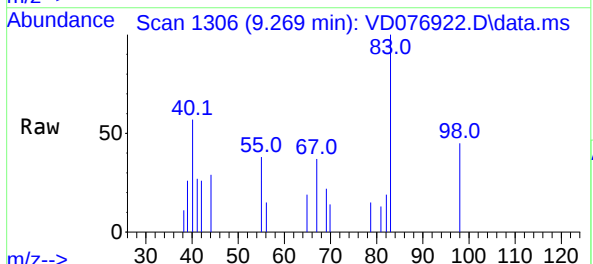
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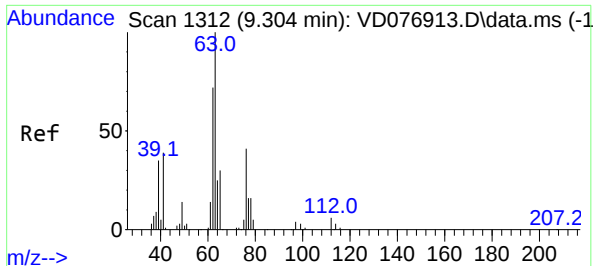
Tgt Ion: 78 Resp: 5842



#35
Methylcyclohexane
Concen: 0.306 ug/L
RT: 9.269 min Scan# 1306
Delta R.T. -0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

Tgt Ion: 83 Resp: 2344
Ion Ratio Lower Upper
83 100
55 28.2 59.8 89.6#
98 49.1 37.8 56.6

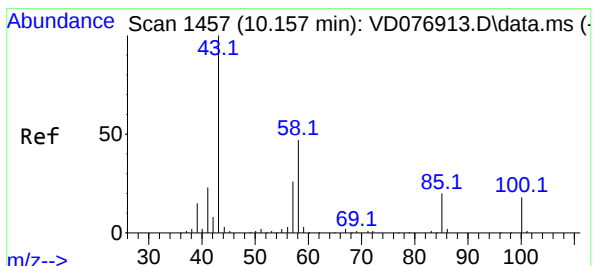
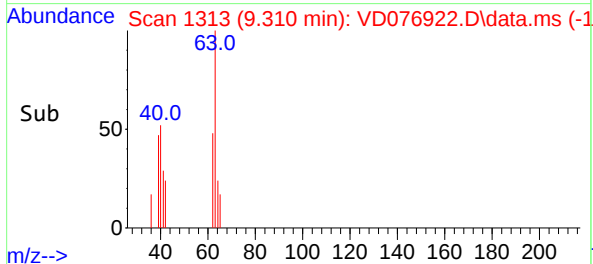
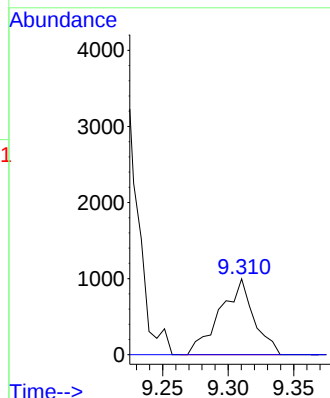
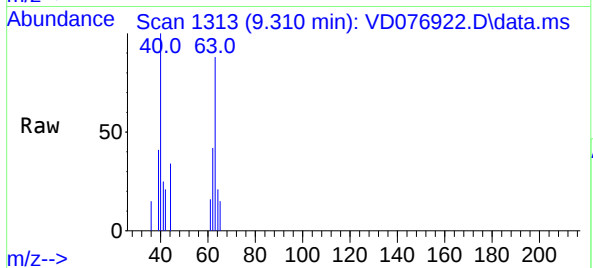




#37
1,2-Dichloropropane
Concen: 0.391 ug/L
RT: 9.310 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

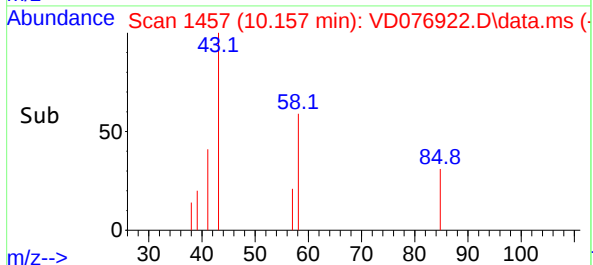
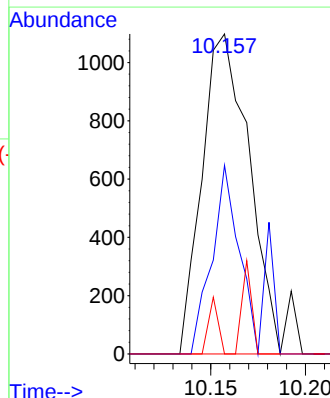
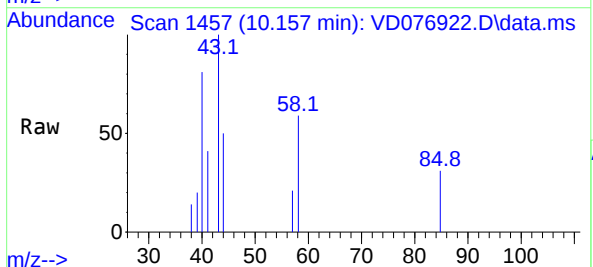
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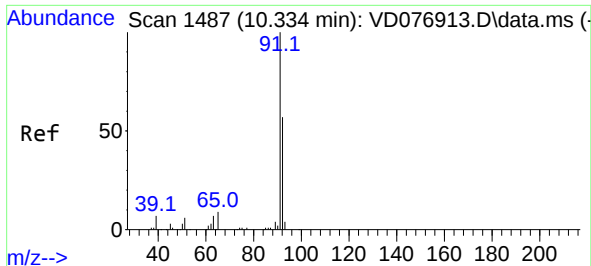
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Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



#40
4-Methyl-2-pentanone
Concen: 0.655 ug/L
RT: 10.157 min Scan# 1457
Delta R.T. -0.000 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

Tgt Ion: 43 Resp: 1890
Ion Ratio Lower Upper
43 100
58 34.4 30.7 46.1
100 0.0 11.0 16.4#

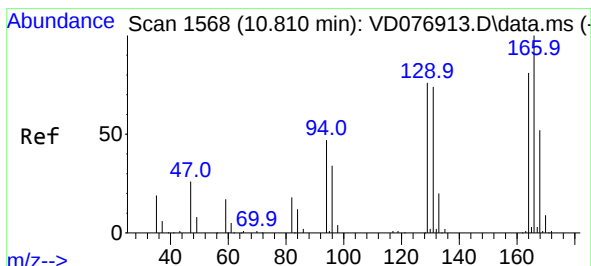
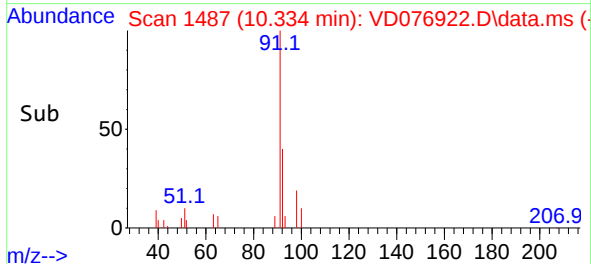
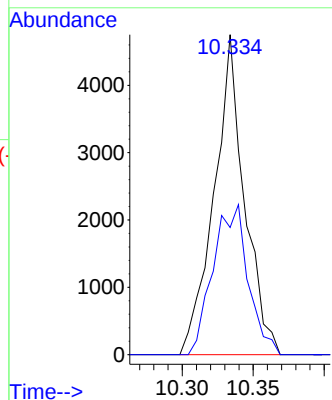
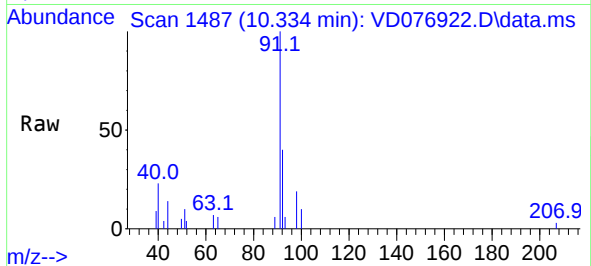




#42
Toluene
Concen: 0.360 ug/L
RT: 10.334 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

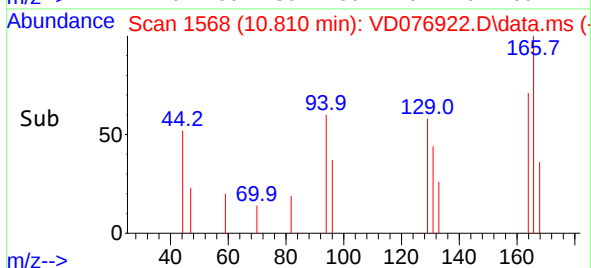
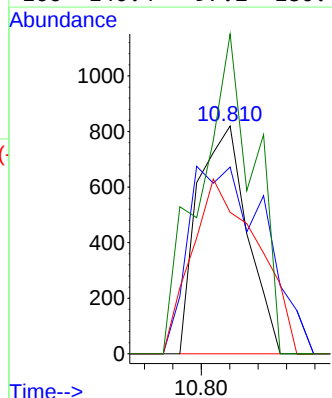
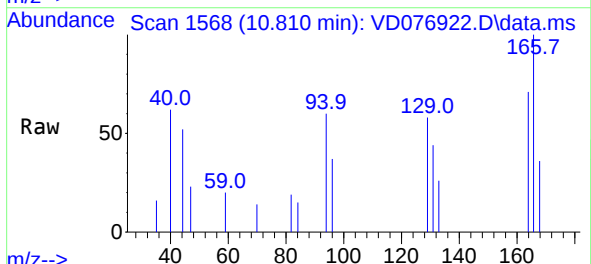
Instrument :
MSVOA_D
ClientSampleId :
VBLK141

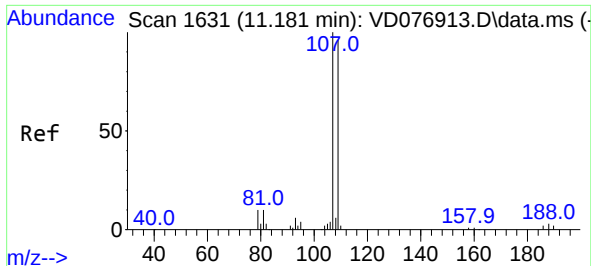
Tgt Ion: 91 Resp: 7061
Ion Ratio Lower Upper
91 100
92 39.8 39.3 73.1



#46
Tetrachloroethene
Concen: 0.281 ug/L
RT: 10.810 min Scan# 1568
Delta R.T. -0.000 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

Tgt Ion:164 Resp: 993
Ion Ratio Lower Upper
164 100
129 82.0 65.5 121.6
131 62.1 64.8 120.3#
166 140.4 97.2 180.4

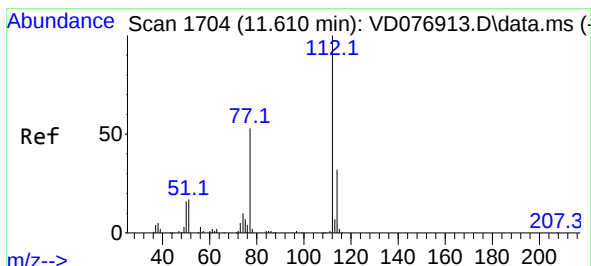
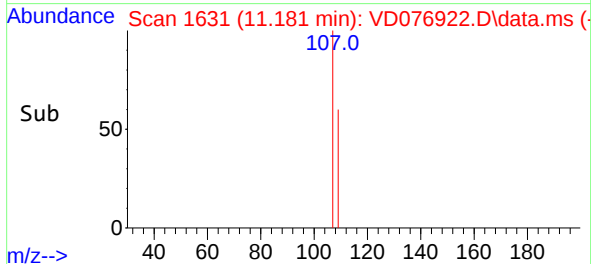
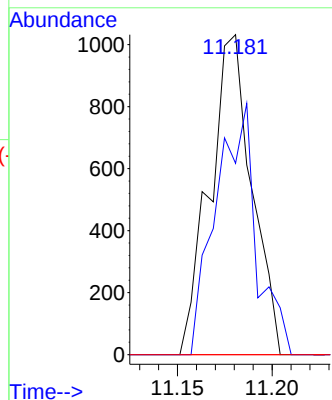
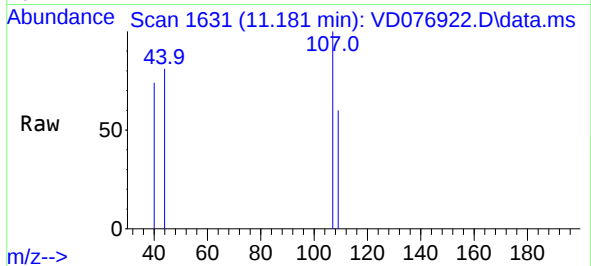




#50
1,2-Dibromoethane
Concen: 0.403 ug/L
RT: 11.181 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

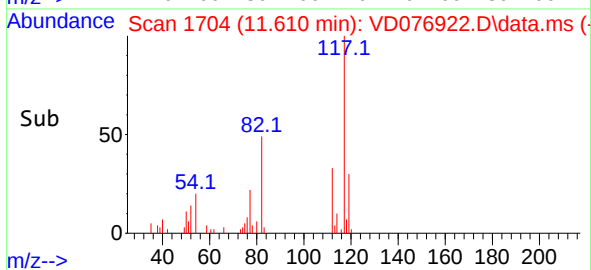
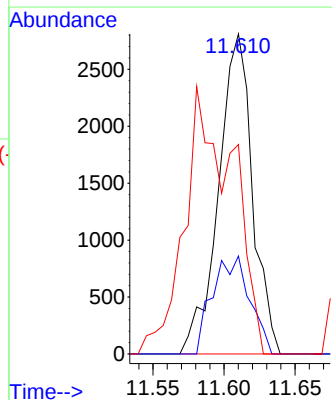
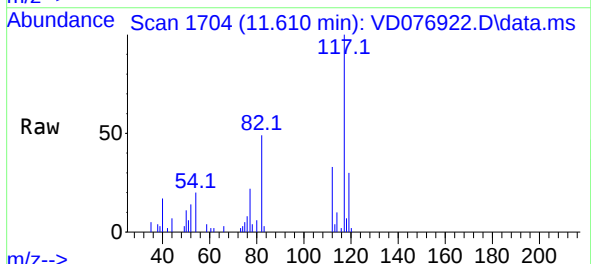
Instrument :
MSVOA_D
ClientSampleId :
VBLK141

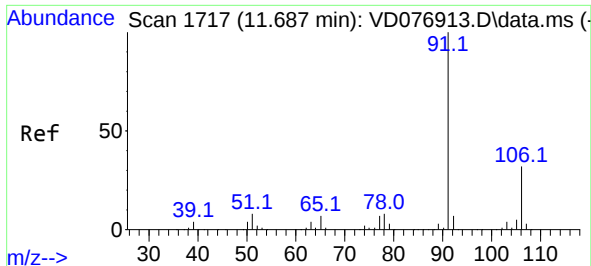
Tgt Ion:	107	Resp:	1599
Ion	Ratio	Lower	Upper
107	100		
109	59.8	58.8	109.2
188	0.0	2.9	4.3#



#51
Chlorobenzene
Concen: 0.366 ug/L
RT: 11.610 min Scan# 1704
Delta R.T. -0.000 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

Tgt Ion:	112	Resp:	4671
Ion	Ratio	Lower	Upper
112	100		
114	30.6	21.5	39.9
77	65.5	43.4	65.2#

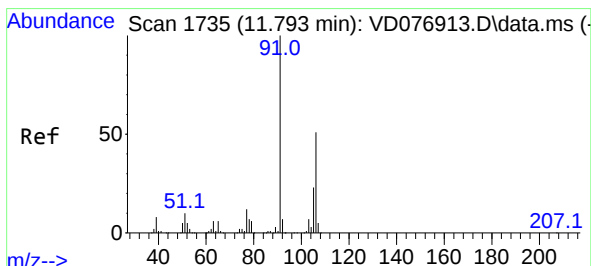
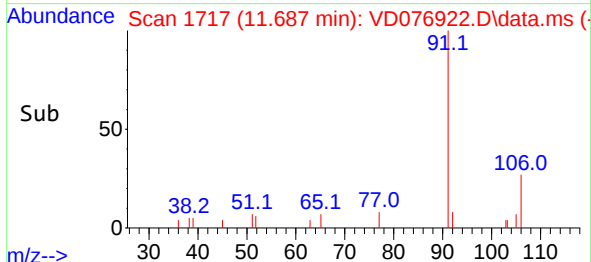
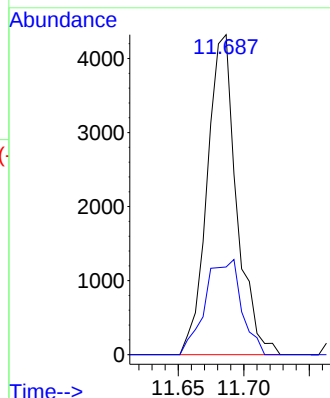
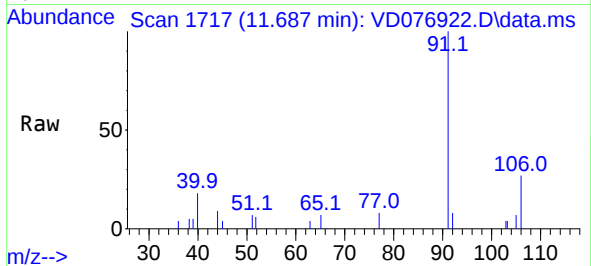




#52
Ethylbenzene
Concen: 0.324 ug/L
RT: 11.687 min Scan# 1717
Delta R.T. -0.000 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

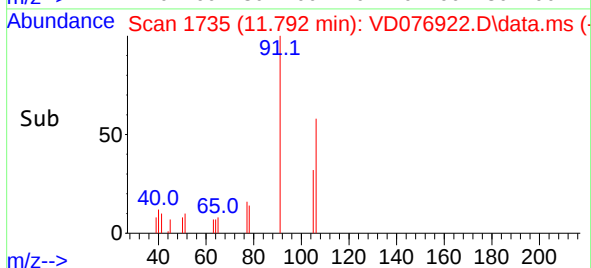
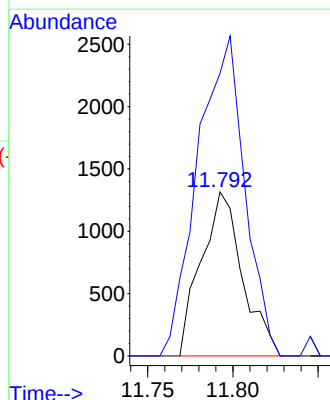
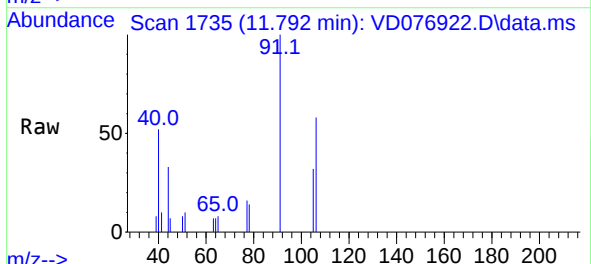
Instrument :
MSVOA_D
ClientSampleId :
VBLK141

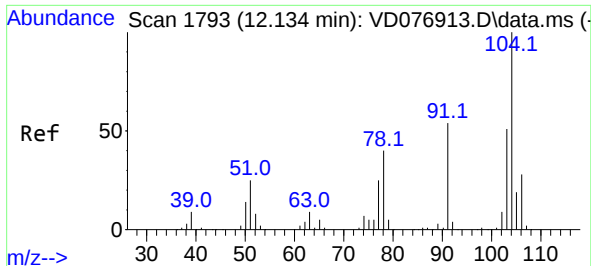
Tgt Ion: 91 Resp: 6767
Ion Ratio Lower Upper
91 100
106 27.4 22.4 41.6



#53
m,p-Xylene
Concen: 0.275 ug/L
RT: 11.792 min Scan# 1735
Delta R.T. -0.000 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

Tgt Ion: 106 Resp: 2218
Ion Ratio Lower Upper
106 100
91 172.5 141.5 262.9

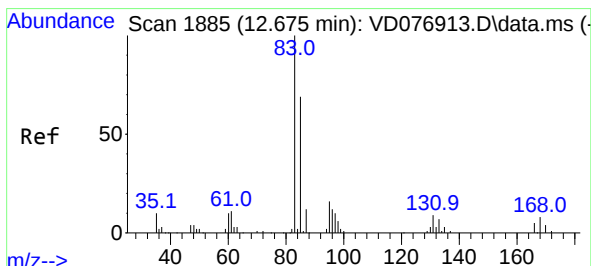
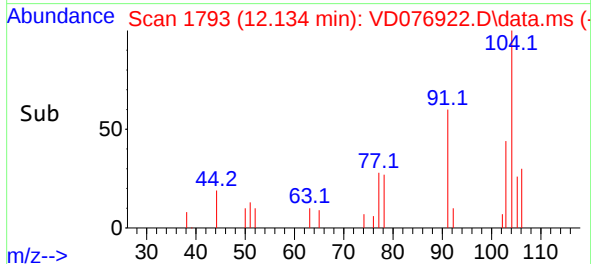
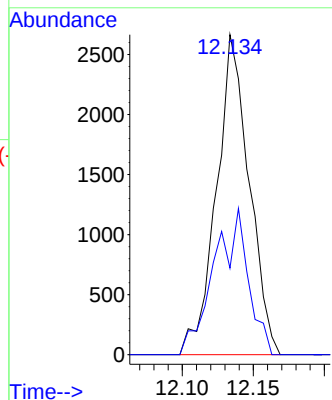
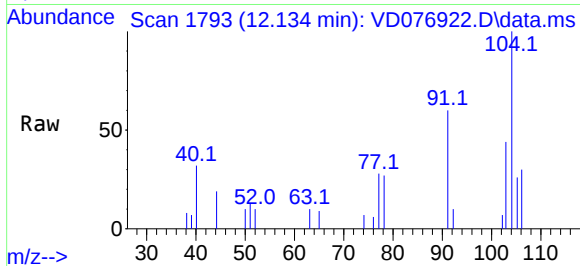




#55
Styrene
Concen: 0.304 ug/L
RT: 12.134 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

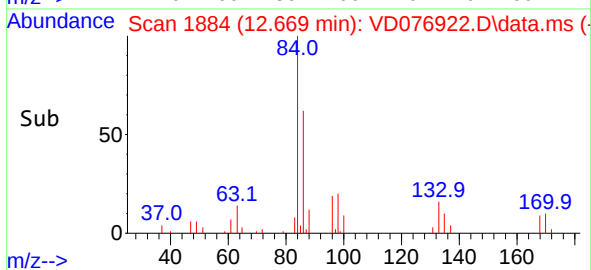
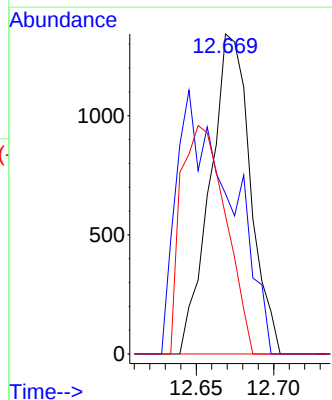
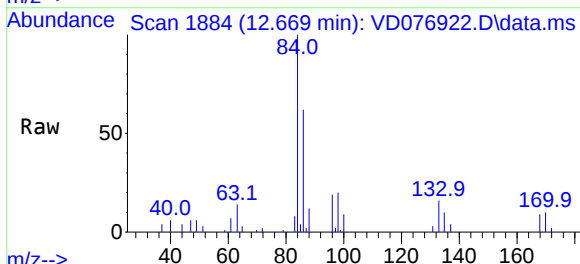
Instrument :
MSVOA_D
ClientSampleId :
VBLK141

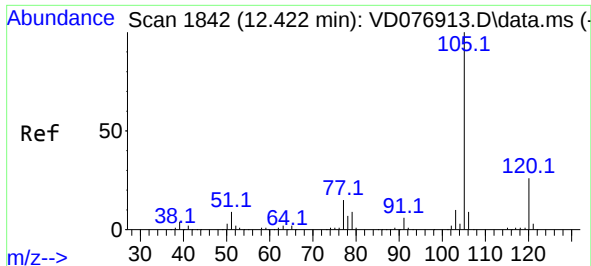
Tgt Ion:104 Resp: 4265
Ion Ratio Lower Upper
104 100
78 27.1 31.3 58.1#



#57
1,1,2,2-Tetrachloroethane
Concen: 0.482 ug/L
RT: 12.669 min Scan# 1884
Delta R.T. -0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

Tgt Ion: 83 Resp: 2427
Ion Ratio Lower Upper
83 100
85 50.1 46.3 86.1
131 43.3 7.0 10.4#

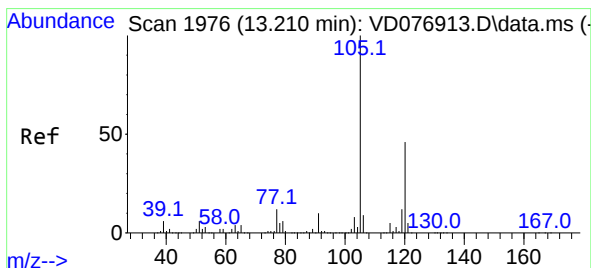
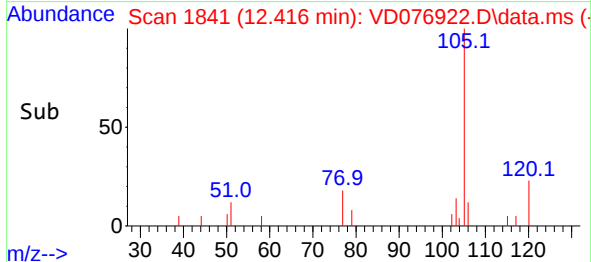
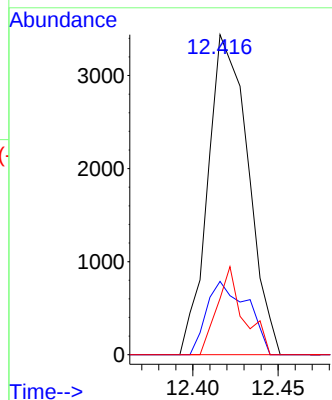
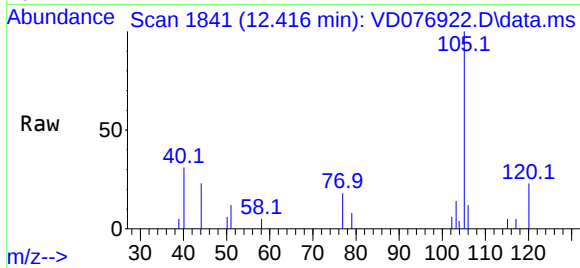




#60
Isopropylbenzene
Concen: 0.307 ug/L
RT: 12.416 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

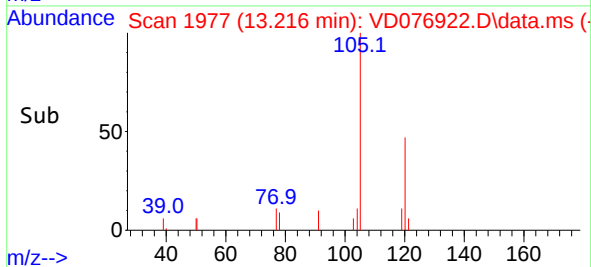
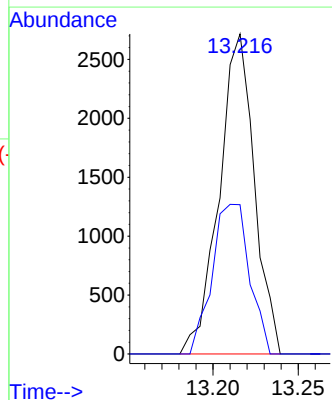
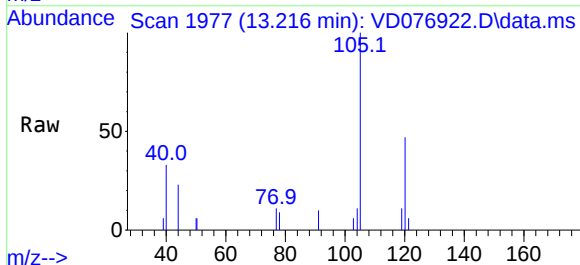
Instrument :
MSVOA_D
ClientSampleId :
VBLK141

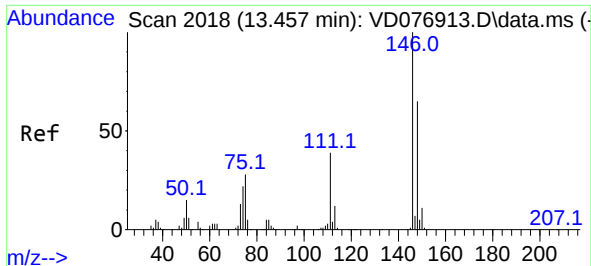
Tgt Ion:105 Resp: 5651
Ion Ratio Lower Upper
105 100
120 17.7 21.3 31.9#
77 15.9 12.2 18.4



#63
1,2,4-Trimethylbenzene
Concen: 0.280 ug/L
RT: 13.216 min Scan# 1977
Delta R.T. 0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

Tgt Ion:105 Resp: 3906
Ion Ratio Lower Upper
105 100
120 49.6 37.5 56.3

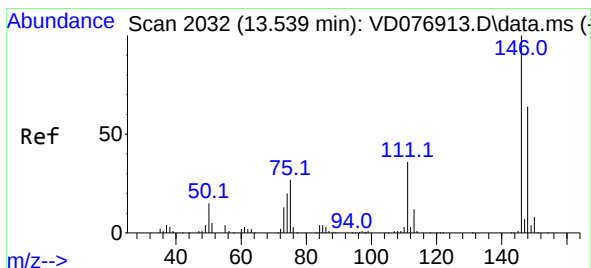
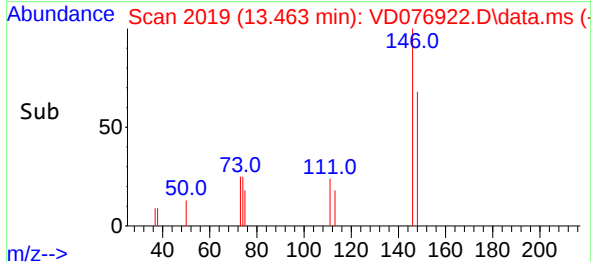
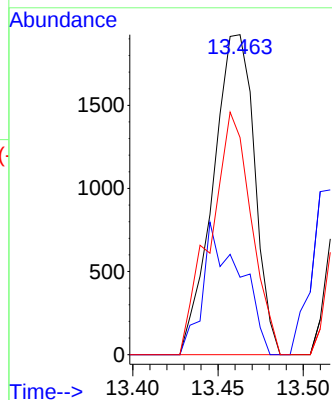
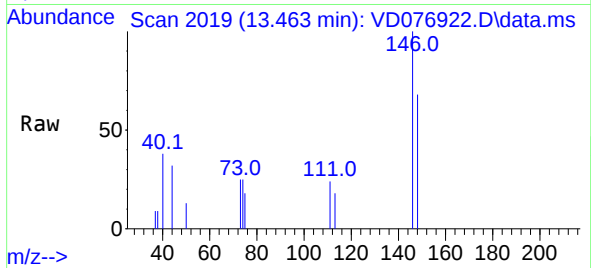




#64
1,3-Dichlorobenzene
Concen: 0.389 ug/L
RT: 13.463 min Scan# 2018
Delta R.T. 0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

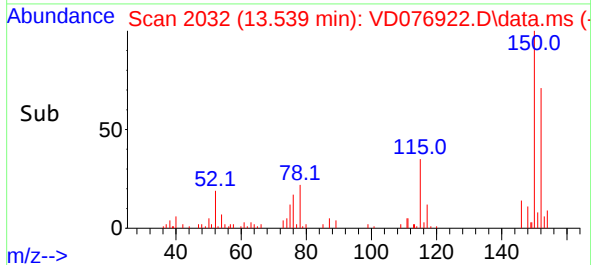
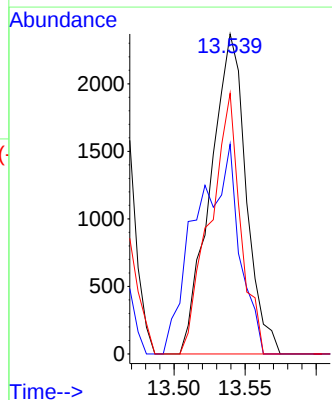
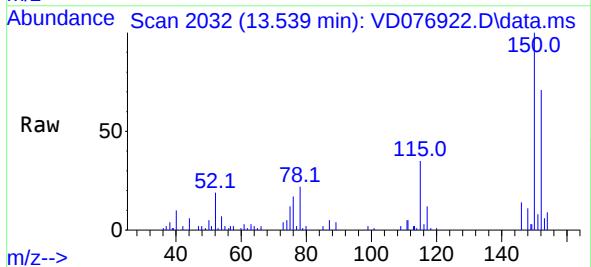
Instrument :
MSVOA_D
ClientSampleId :
VBLK141

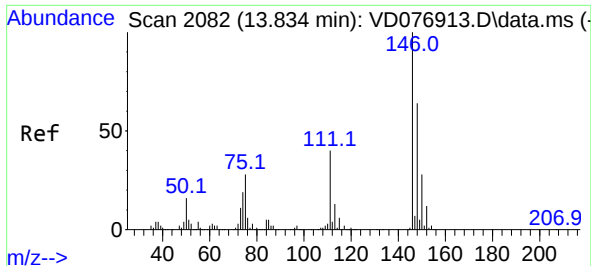
Tgt Ion:146 Resp: 3263
Ion Ratio Lower Upper
146 100
111 24.2 25.6 47.4#
148 67.8 44.3 82.3



#65
1,4-Dichlorobenzene
Concen: 0.478 ug/L
RT: 13.539 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

Tgt Ion:146 Resp: 4146
Ion Ratio Lower Upper
146 100
111 65.6 25.7 47.7#
148 81.5 45.4 84.2





#67

1,2-Dichlorobenzene

Concen: 0.466 ug/L

RT: 13.833 min Scan# 2082

Delta R.T. -0.000 min

Lab File: VD076922.D

Acq: 04 Aug 2023 11:56

Instrument :

MSVOA_D

ClientSampleId :

VBLK141

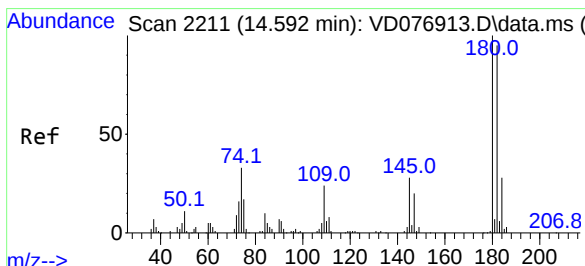
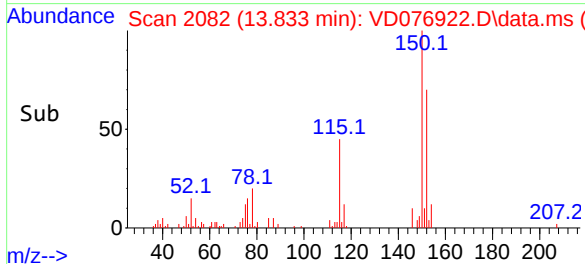
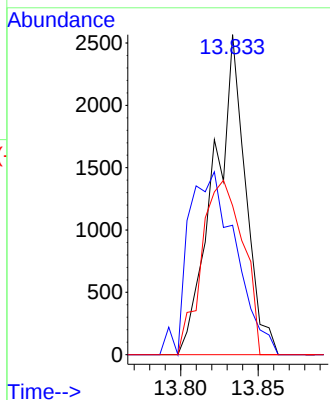
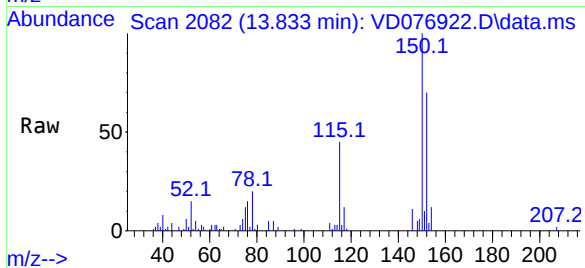
Tgt Ion:146 Resp: 3667

Ion Ratio Lower Upper

146 100

111 40.4 31.3 46.9

148 46.6 51.7 77.5#



#69

1,3,5-Trichlorobenzene

Concen: 0.525 ug/L

RT: 15.104 min Scan# 2298

Delta R.T. 0.512 min

Lab File: VD076922.D

Acq: 04 Aug 2023 11:56

Tgt Ion:180 Resp: 2758

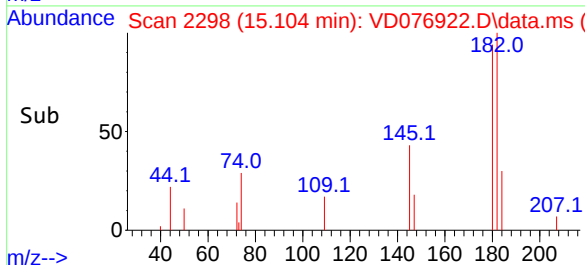
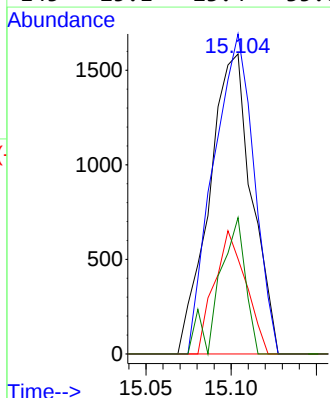
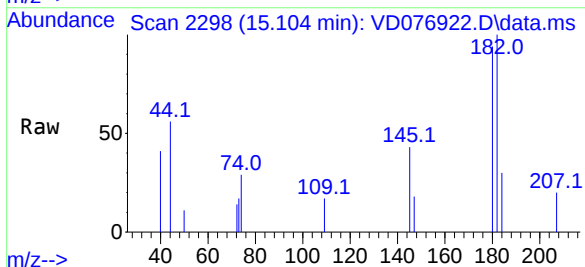
Ion Ratio Lower Upper

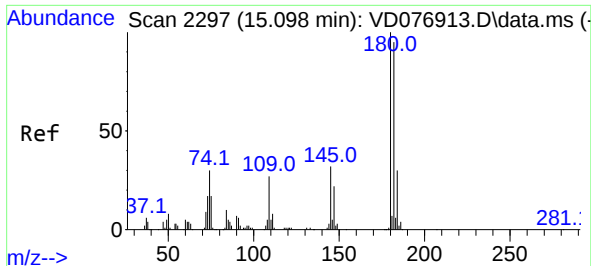
180 100

182 101.1 77.1 115.7

184 30.3 25.0 37.4

145 25.1 23.4 35.0

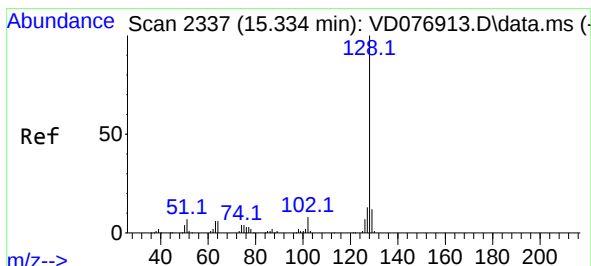
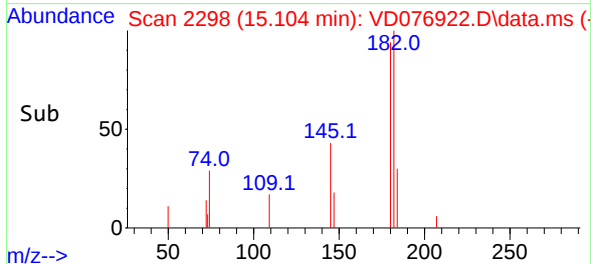
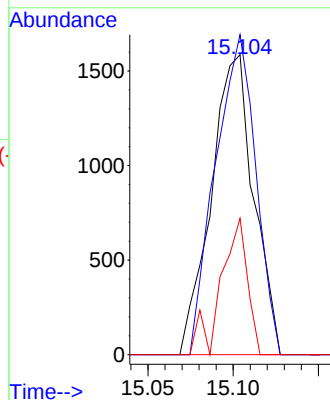
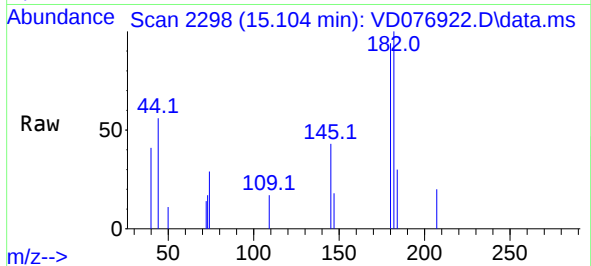




#70
1,2,4-trichlorobenzene
Concen: 0.597 ug/L
RT: 15.104 min Scan# 21
Delta R.T. 0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

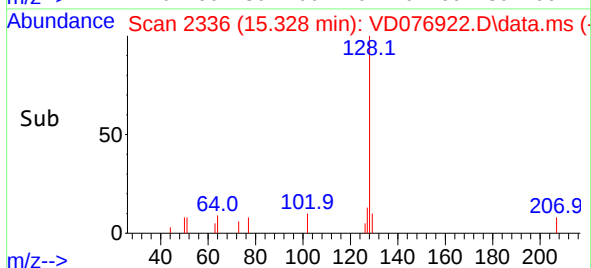
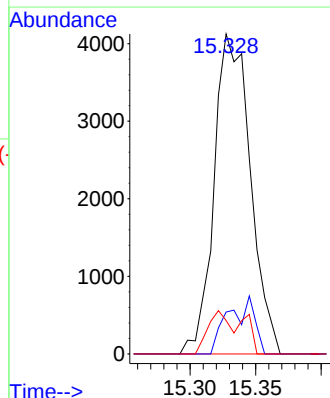
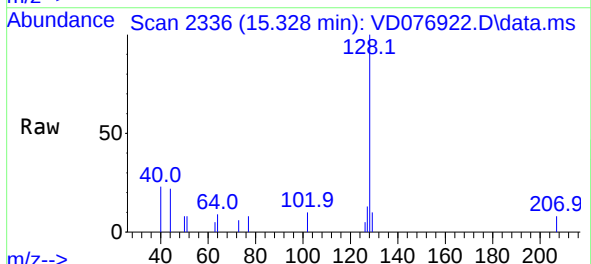
Instrument :
MSVOA_D
ClientSampleId :
VBLK141

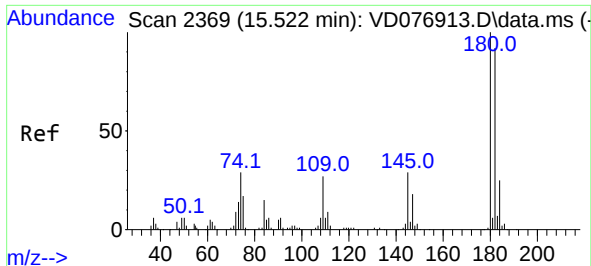
Tgt Ion:180	Resp:	2758
Ion	Ratio	Lower Upper
180	100	
182	101.1	76.9 115.3
145	25.1	23.5 35.3



#71
Naphthalene
Concen: 0.730 ug/L
RT: 15.328 min Scan# 2336
Delta R.T. -0.006 min
Lab File: VD076922.D
Acq: 04 Aug 2023 11:56

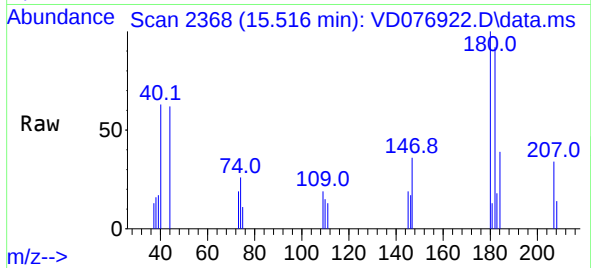
Tgt Ion:128	Resp:	7928
Ion	Ratio	Lower Upper
128	100	
127	8.1	10.8 16.2#
129	8.4	8.6 12.8#





#72
 1,2,3-Trichlorobenzene
 Concen: 0.632 ug/L
 RT: 15.516 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VD076922.D
 Acq: 04 Aug 2023 11:56

Instrument :
 MSVOA_D
 ClientSampleId :
 VBLK141



Tgt Ion:	180	Resp:	2647
Ion	Ratio	Lower	Upper
180	100		
182	102.2	74.3	111.5
145	27.5	25.0	37.6

