

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD110923\
 Data File : VD077533.D
 Acq On : 09 Nov 2023 13:57
 Operator : JC/SY
 Sample : 05296-02
 Misc : 4.59G/10ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 10 02:09:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM110923SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Nov 10 02:07:44 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.781	114	679602	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.586	117	567005	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.339	152	345	25.000	ug/L	-0.18
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.275	65	286700	16.584	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	66.320%
7) Chloroethane-d5	2.804	69	223441	16.452	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	65.800%
11) 1,1-Dichloroethene-d2	3.922	65	89743	16.788	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	67.160%
21) 2-Butanone-d5	6.987	46	101409	33.880	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	67.760%
24) Chloroform-d	7.569	84	341453	17.393	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	69.560%
26) 1,2-Dichloroethane-d4	8.234	65	182561	17.482	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	69.920%#
32) Benzene-d6	8.204	84	718232	19.517	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	78.080%
36) 1,2-Dichloropropane-d6	9.210	67	231011	19.272	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	77.080%
41) Toluene-d8	10.269	98	637184	19.161	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	76.640%
43) trans-1,3-Dichloroprop...	10.528	79	96617	18.694	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	74.760%
47) 2-Hexanone-d5	10.881	63	80228	37.414	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	74.820%
56) 1,1,2,2-Tetrachloroeth...	12.651	84	143357	18.050	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	72.200%
66) 1,2-Dichlorobenzene-d4	13.816	152	164563	13408.086	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	53632.360%#
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	3.916	101	2415	0.243	ug/L #	21
13) Acetone	4.028	43	35401	11.252	ug/L	99
16) Methylene chloride	4.798	84	14725	1.283	ug/L	90
20) cis-1,2-Dichloroethene	7.081	96	2997827	271.420	ug/L	98
33) Benzene	8.257	78	28543	0.726	ug/L	100
34) Trichloroethene	9.028	95	935450	96.012	ug/L	91
35) Methylcyclohexane	9.269	83	7334	0.417	ug/L #	39
42) Toluene	10.333	91	784864	19.012	ug/L	98
45) 1,1,2-Trichloroethane	10.710	97	83623	12.515	ug/L #	18
46) Tetrachloroethene	10.816	164	12193698	1700.935	ug/L	95
48) 2-Hexanone	10.892	43	63679	12.061	ug/L #	30
51) Chlorobenzene	11.610	112	3139767	129.822	ug/L	99
52) Ethylbenzene	11.686	91	14278777	314.347	ug/L	88
53) m,p-Xylene	11.686	106	4960597	300.110	ug/L	66
55) Styrene	12.122	104	1432127	51.811	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.675	83	3558	0.452	ug/L #	95
59) Bromoform	12.239	173	115	19.551	ug/L #	36
60) Isopropylbenzene	12.422	105	777085	13925.160	ug/L	99
61) 1,2,3-Trichloropropane	12.727	75	892	121.380	ug/L #	73

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

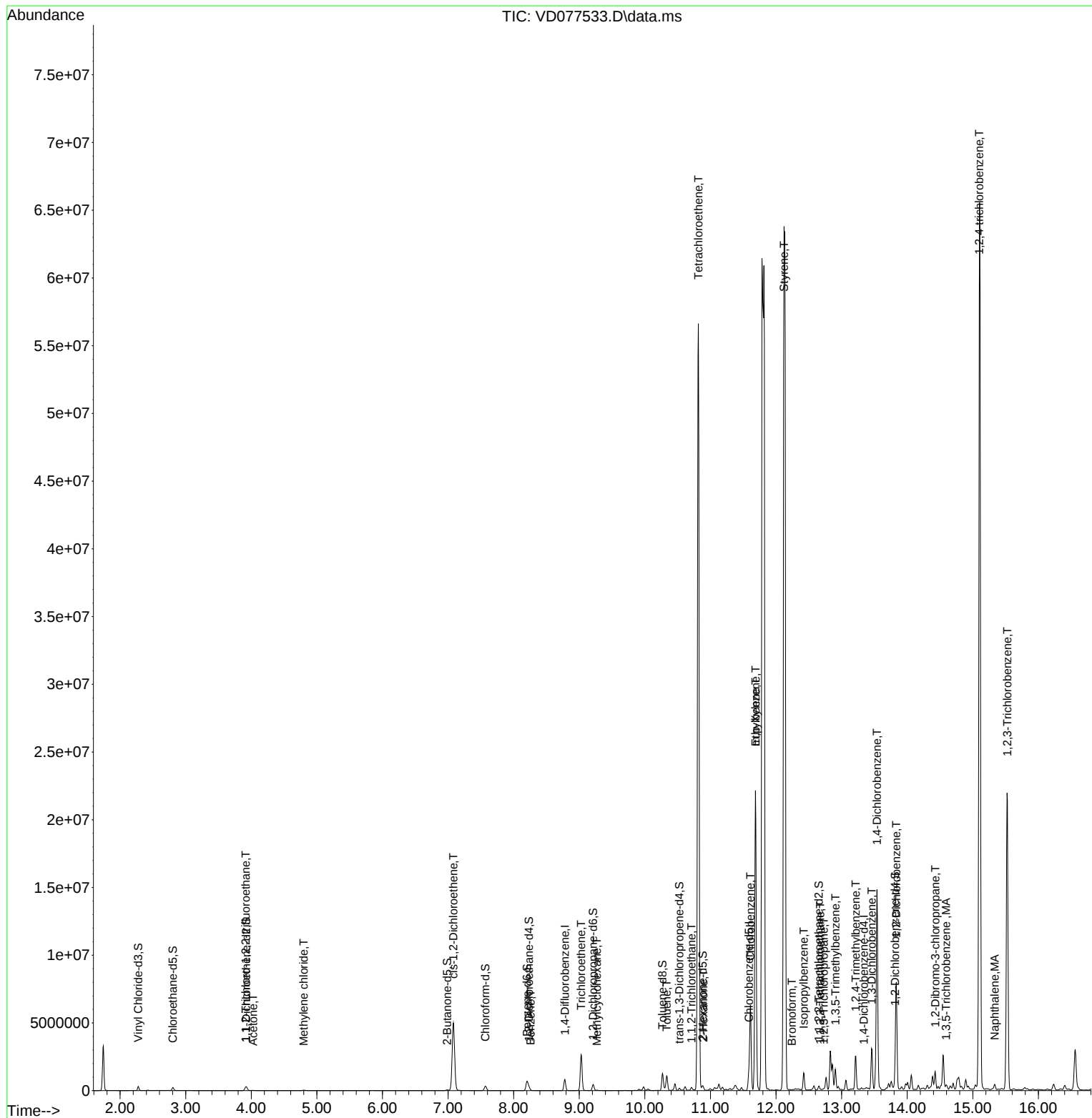
62) 1,3,5-Trimethylbenzene	12.904	105	714362	16866.918	ug/L	97
63) 1,2,4-Trimethylbenzene	13.216	105	1341719	31273.836	ug/L	100
64) 1,3-Dichlorobenzene	13.457	146	1188921	51931.723	ug/L	98
65) 1,4-Dichlorobenzene	13.539	146	5269867	228087.468	ug/L	95
67) 1,2-Dichlorobenzene	13.833	146	2882788	142426.139	ug/L	96
68) 1,2-Dibromo-3-chloropr...	14.427	75	6897	4314.708	ug/L #	10
69) 1,3,5-Trichlorobenzene	14.592	180	91493	5869.321	ug/L	99
70) 1,2,4-trichlorobenzene	15.098	180	17079874	1300047.349	ug/L #	93
71) Naphthalene	15.333	128	317789	12834.775	ug/L	100
72) 1,2,3-Trichlorobenzene	15.527	180	7009594	625736.845	ug/L	100

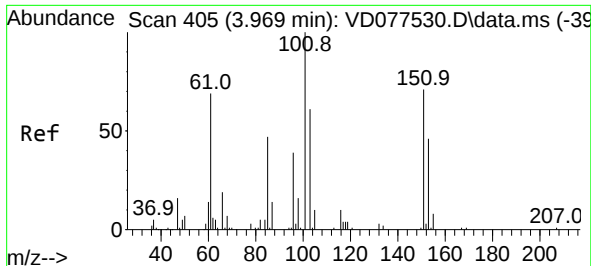
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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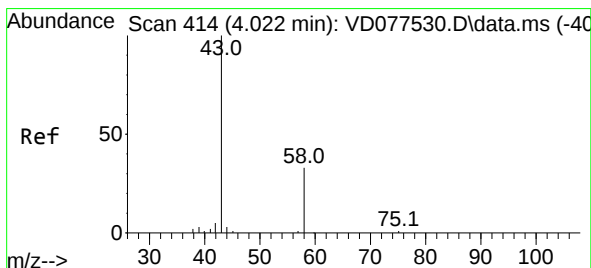
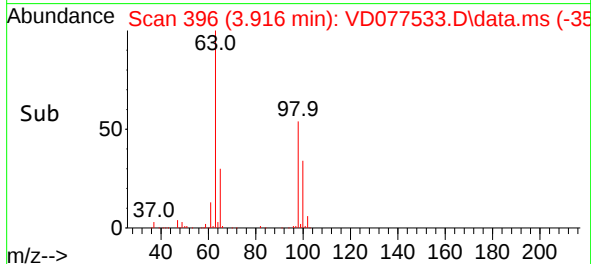
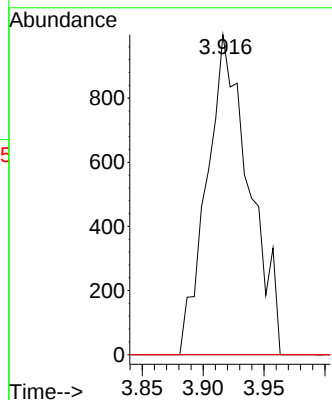
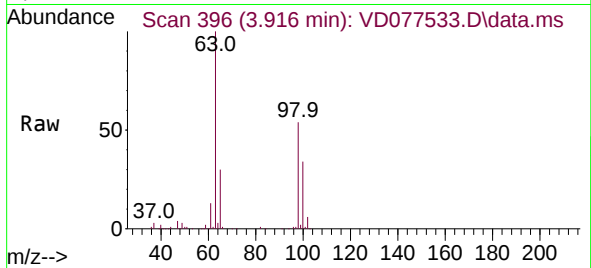




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.243 ug/L
RT: 3.916 min Scan# 396
Delta R.T. -0.053 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

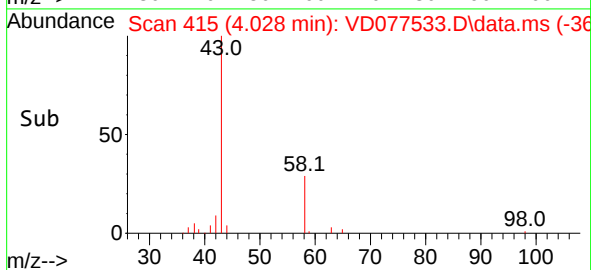
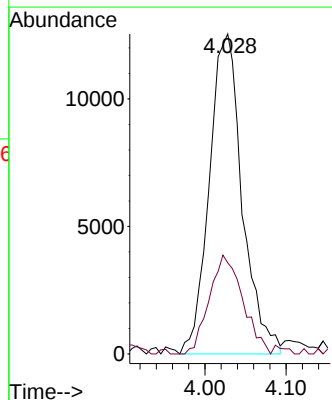
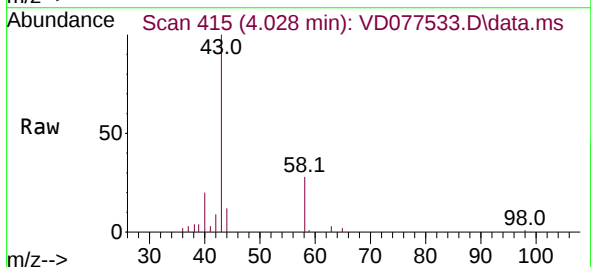
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MSVOA_D
ClientSampleId :

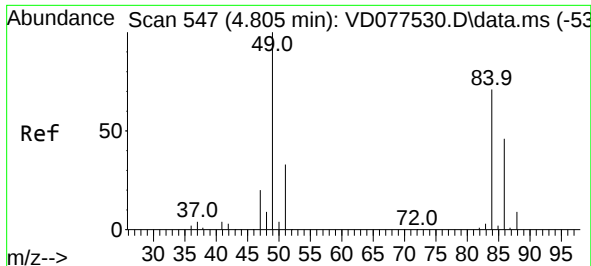
Tgt Ion:101 Resp: 2415
Ion Ratio Lower Upper
101 100
85 0.0 36.8 55.2#
151 0.0 56.6 84.8#



#13
Acetone
Concen: 11.252 ug/L
RT: 4.028 min Scan# 415
Delta R.T. 0.006 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

Tgt Ion: 43 Resp: 35401
Ion Ratio Lower Upper
43 100
58 31.4 0.0 64.0

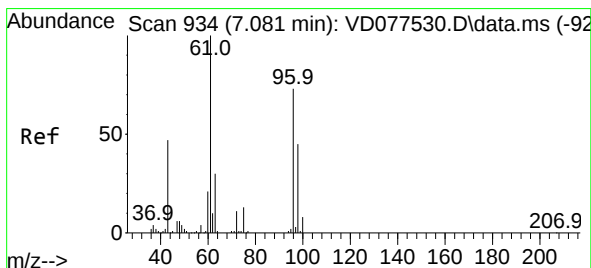
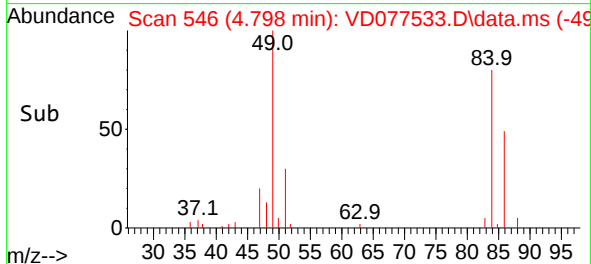
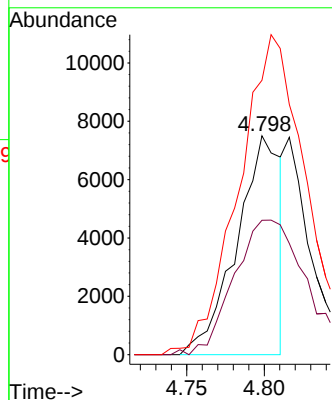
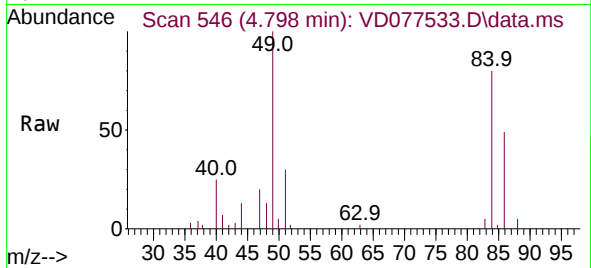




#16
Methylene chloride
Concen: 1.283 ug/L
RT: 4.798 min Scan# 547
Delta R.T. -0.006 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

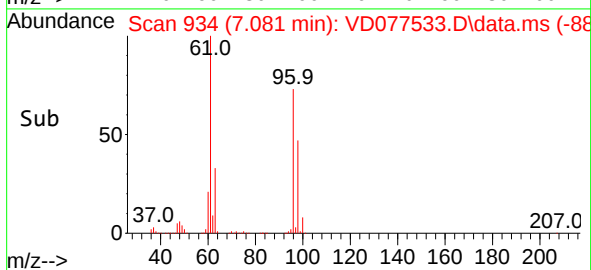
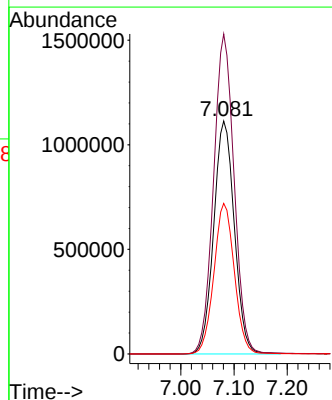
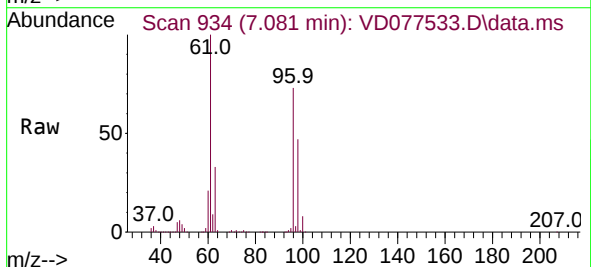
Instrument :
MSVOA_D
ClientSampleId :

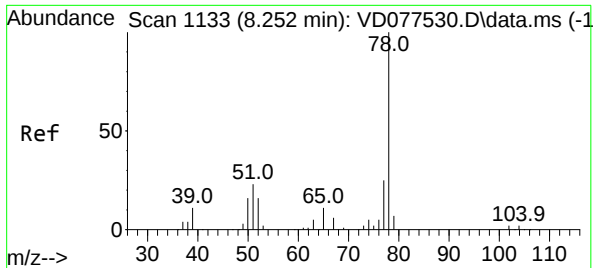
Tgt Ion: 84 Resp: 14725
Ion Ratio Lower Upper
84 100
86 61.4 46.5 86.5
49 125.4 98.3 182.7



#20
cis-1,2-Dichloroethene
Concen: 271.420 ug/L
RT: 7.081 min Scan# 934
Delta R.T. -0.000 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

Tgt Ion: 96 Resp: 2997827
Ion Ratio Lower Upper
96 100
61 137.3 95.0 176.4
98 64.6 43.1 80.1

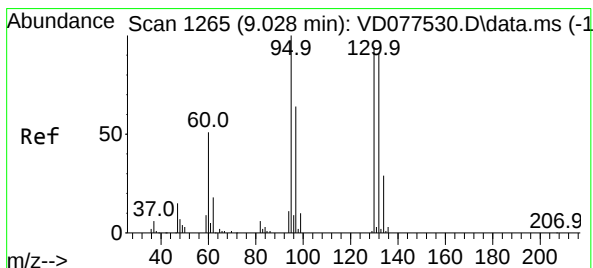
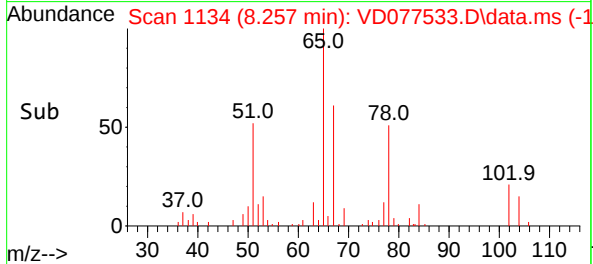
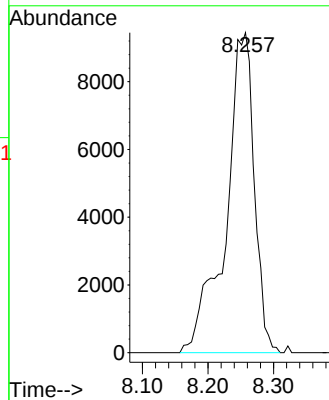
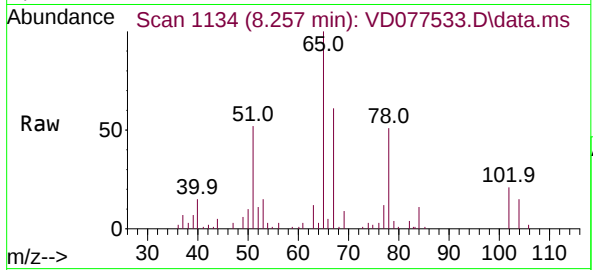




#33
Benzene
Concen: 0.726 ug/L
RT: 8.257 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

Instrument :
MSVOA_D
ClientSampleId :

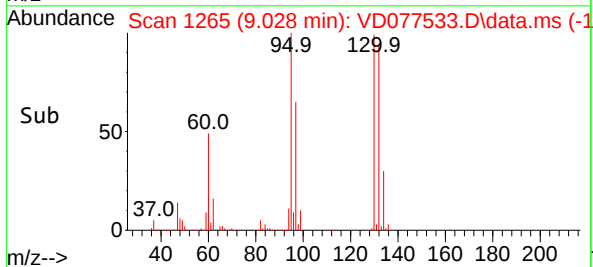
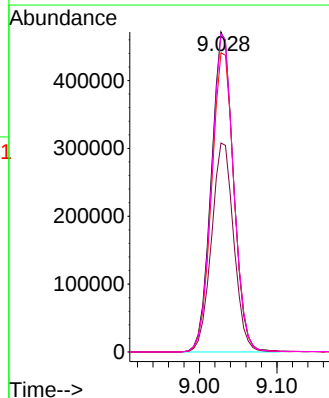
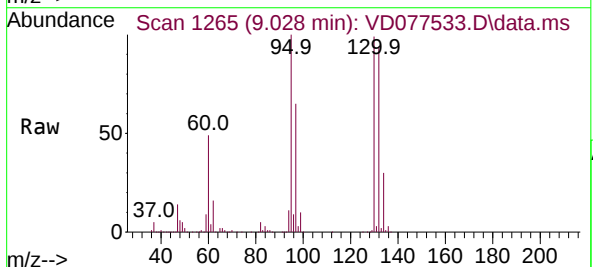
Tgt Ion: 78 Resp: 28543

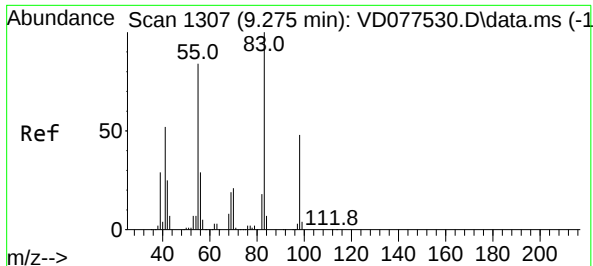


#34
Trichloroethene
Concen: 96.012 ug/L
RT: 9.028 min Scan# 1265
Delta R.T. -0.000 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

Tgt Ion: 95 Resp: 935450

Ion	Ratio	Lower	Upper
95	100		
97	65.3	42.4	78.6
132	93.5	59.4	110.2
130	99.4	62.5	116.1

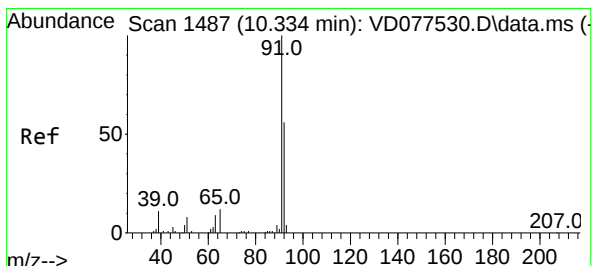
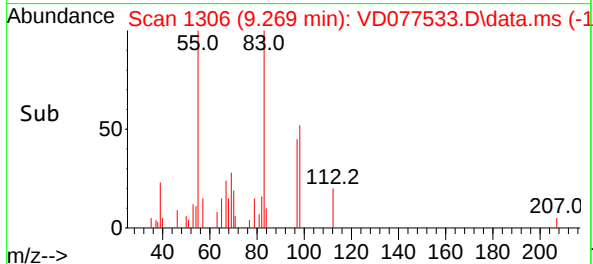
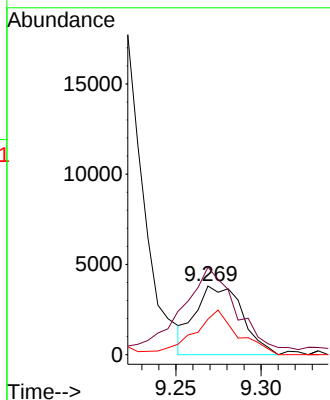
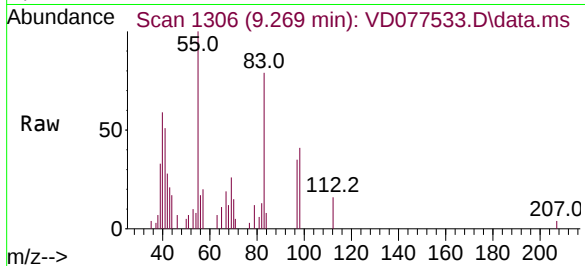




#35
Methylcyclohexane
Concen: 0.417 ug/L
RT: 9.269 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

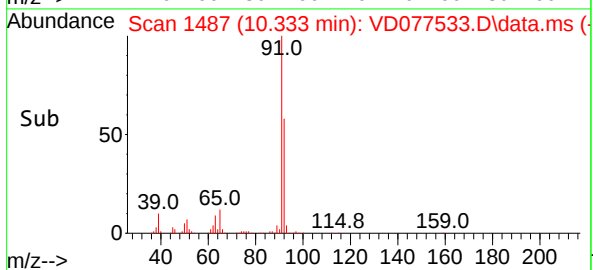
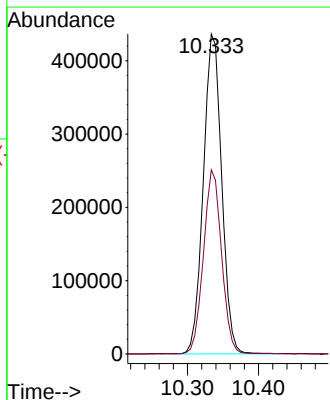
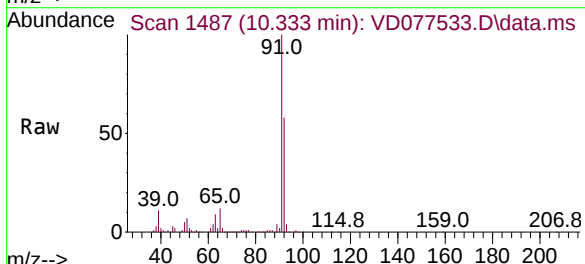
Instrument :
MSVOA_D
ClientSampleId :

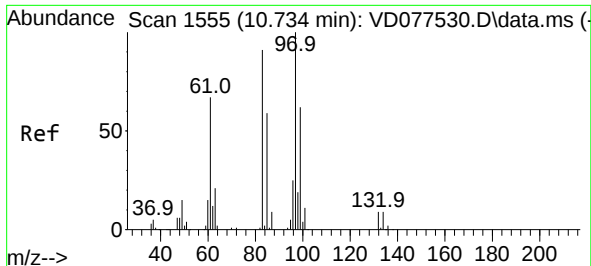
Tgt Ion: 83 Resp: 7334
Ion Ratio Lower Upper
83 100
55 157.8 66.5 99.7#
98 61.1 37.4 56.2#



#42
Toluene
Concen: 19.012 ug/L
RT: 10.333 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

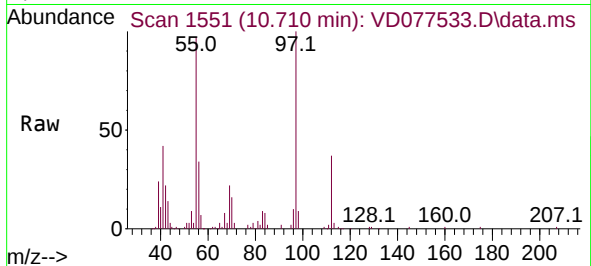
Tgt Ion: 91 Resp: 784864
Ion Ratio Lower Upper
91 100
92 57.5 39.3 73.1



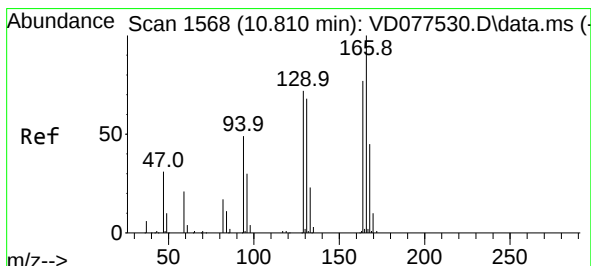
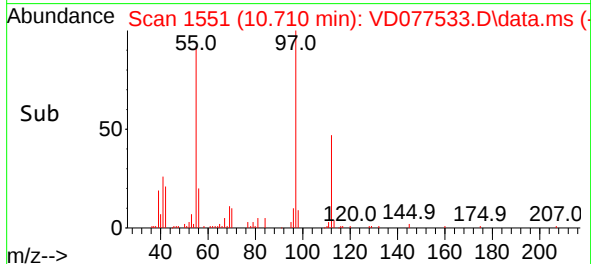
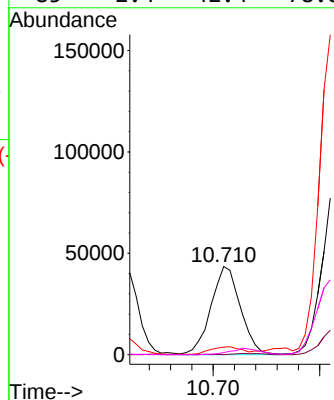


#45
1,1,2-Trichloroethane
Concen: 12.515 ug/L
RT: 10.710 min Scan# 1551
Delta R.T. -0.024 min
Lab File: VD077533.D
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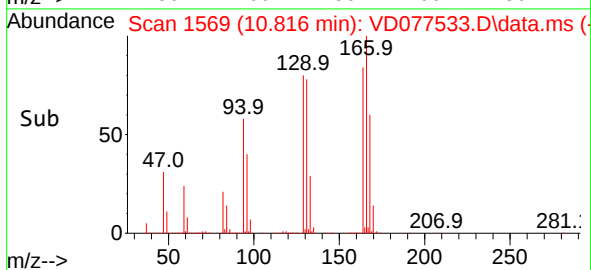
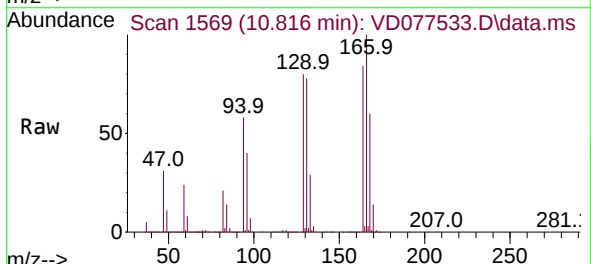
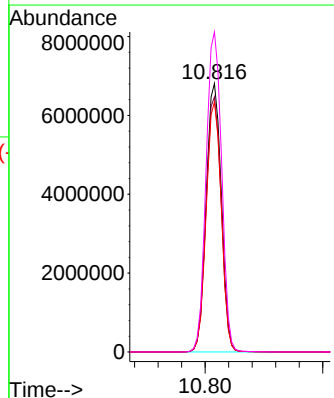


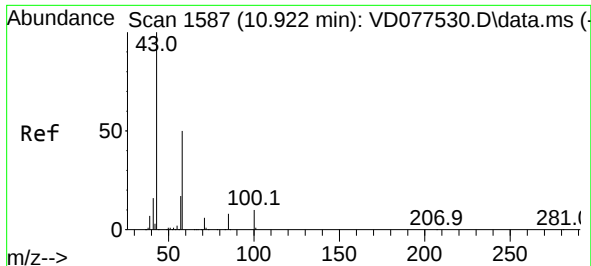
Tgt Ion: 97 Resp: 83623
Ion Ratio Lower Upper
97 100
99 0.0 43.5 80.7#
83 8.6 63.1 117.3#
85 2.4 42.4 78.8#



#46
Tetrachloroethene
Concen: 1700.935 ug/L
RT: 10.816 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

Tgt Ion:164 Resp:12193698
Ion Ratio Lower Upper
164 100
129 95.0 60.6 112.6
131 93.1 61.6 114.4
166 119.2 85.4 158.6

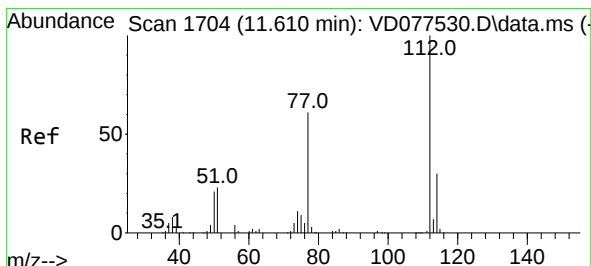
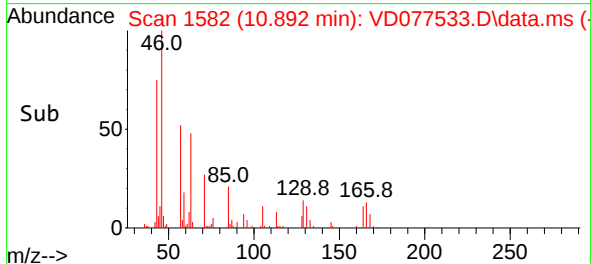
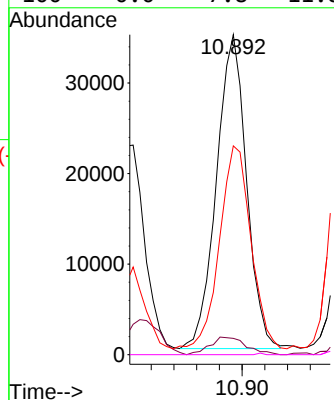
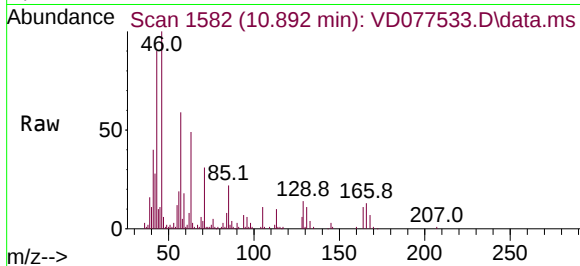




#48
2-Hexanone
Concen: 12.061 ug/L
RT: 10.892 min Scan# 1587
Delta R.T. -0.030 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

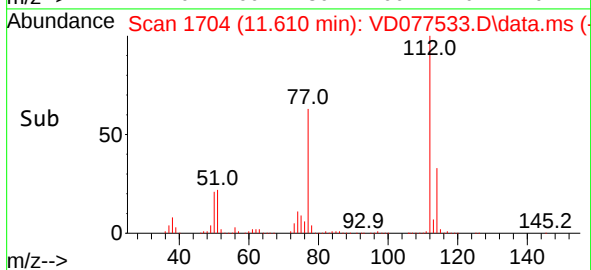
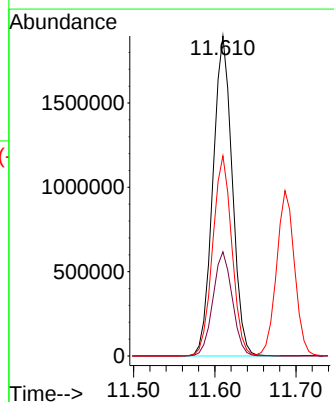
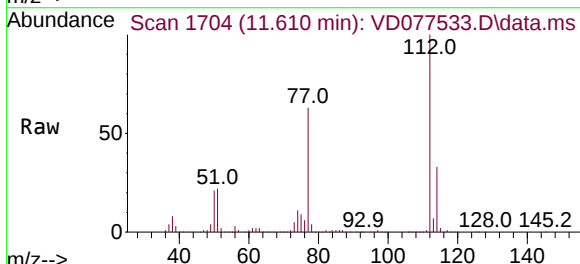
Instrument :
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ClientSampleId :

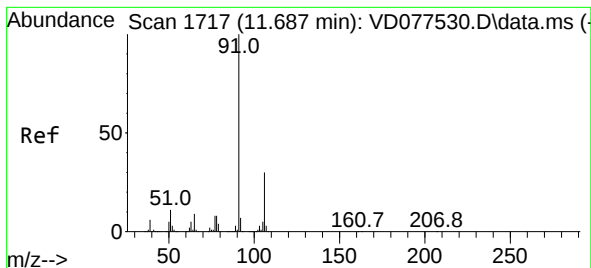
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Ion Ratio Lower Upper
43 100
58 6.8 40.8 61.2#
57 67.2 13.7 20.5#
100 0.0 7.8 11.8#



#51
Chlorobenzene
Concen: 129.822 ug/L
RT: 11.610 min Scan# 1704
Delta R.T. -0.000 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

Tgt Ion: 112 Resp: 3139767
Ion Ratio Lower Upper
112 100
114 32.6 22.4 41.6
77 62.5 49.6 74.4

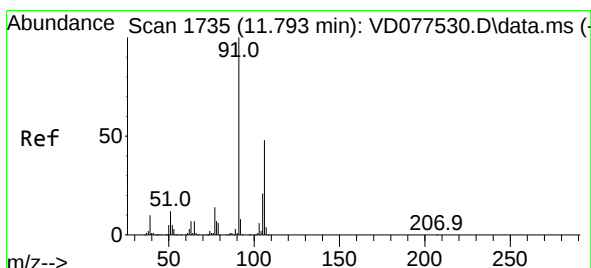
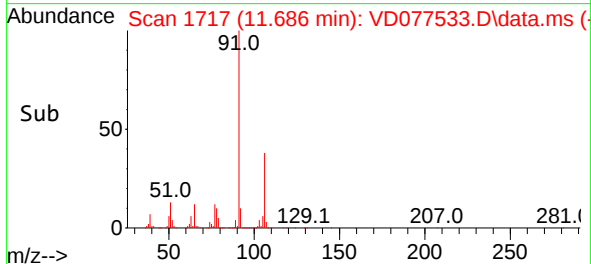
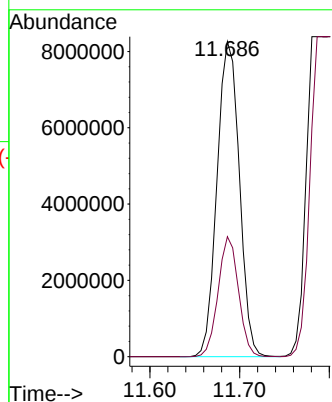
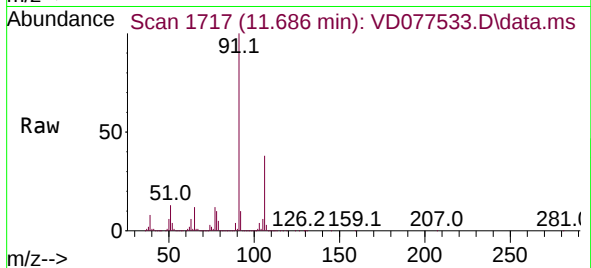




#52
Ethylbenzene
Concen: 314.347 ug/L
RT: 11.686 min Scan# 1717
Delta R.T. -0.000 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

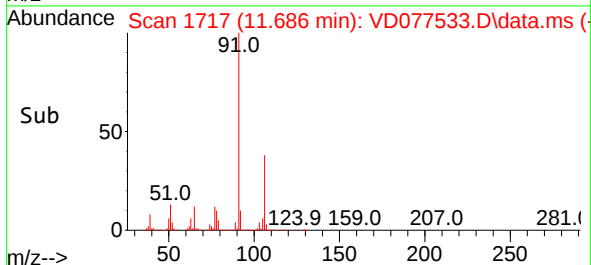
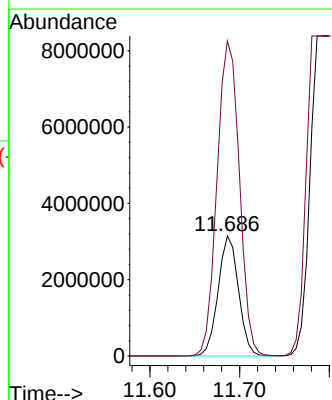
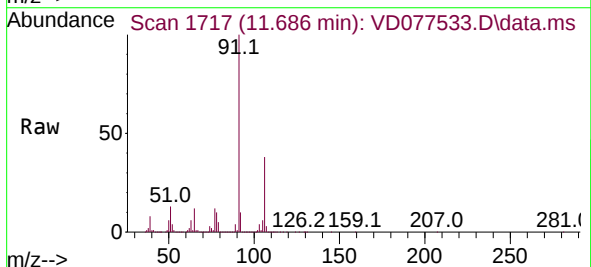
Instrument :
MSVOA_D
ClientSampleId :

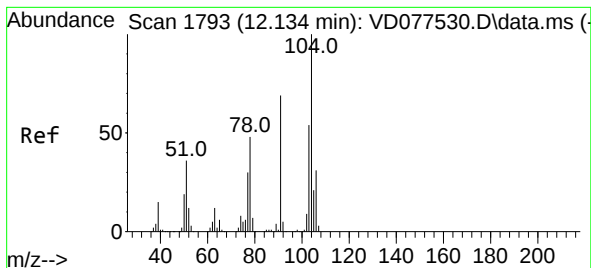
Tgt Ion: 91 Resp:14278777
Ion Ratio Lower Upper
91 100
106 38.1 22.0 40.8



#53
m,p-Xylene
Concen: 300.110 ug/L
RT: 11.686 min Scan# 1717
Delta R.T. -0.106 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

Tgt Ion:106 Resp: 4960597
Ion Ratio Lower Upper
106 100
91 262.5 146.7 272.4





#55

Styrene

Concen: 51.811 ug/L

RT: 12.122 min Scan# 1

Delta R.T. -0.012 min

Lab File: VD077533.D

Acq: 09 Nov 2023 13:57

Instrument :

MSVOA_D

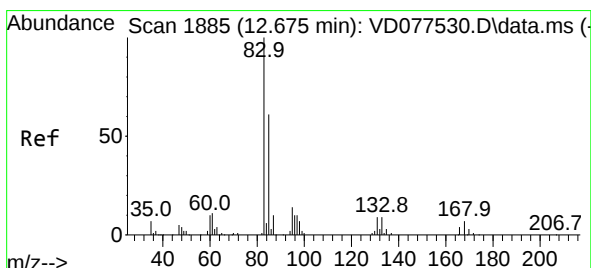
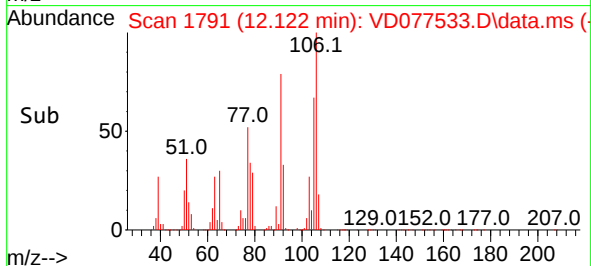
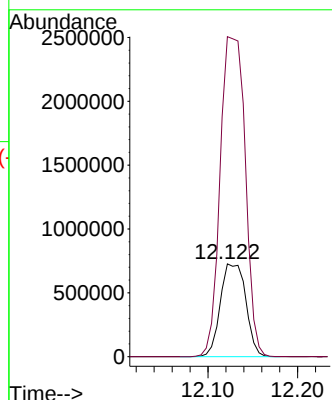
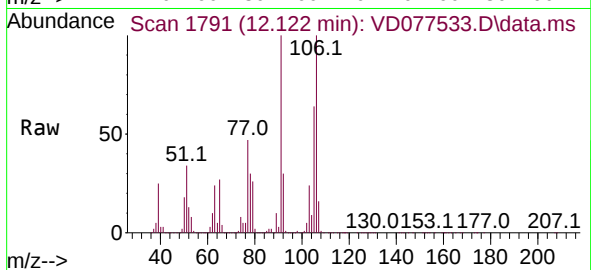
ClientSampleId :

Tgt Ion:104 Resp: 1432127

Ion Ratio Lower Upper

104 100

78 344.9 34.9 64.9#



#57

1,1,2,2-Tetrachloroethane

Concen: 0.452 ug/L

RT: 12.675 min Scan# 1885

Delta R.T. -0.000 min

Lab File: VD077533.D

Acq: 09 Nov 2023 13:57

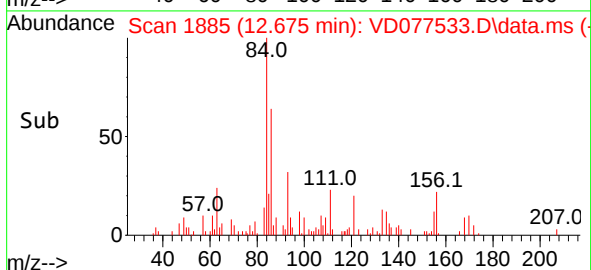
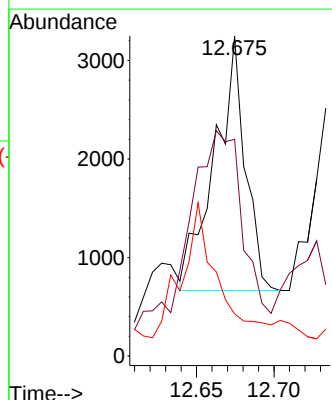
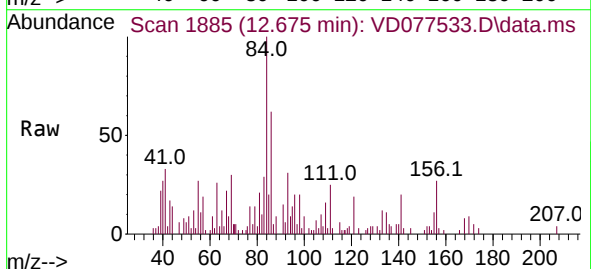
Tgt Ion: 83 Resp: 3558

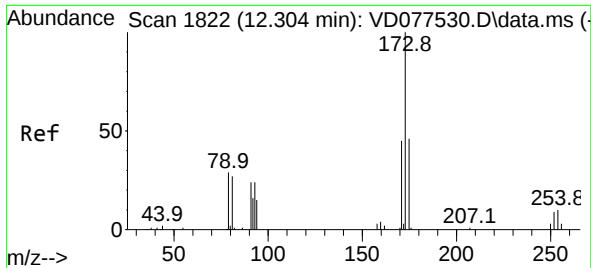
Ion Ratio Lower Upper

83 100

85 67.7 44.9 83.3

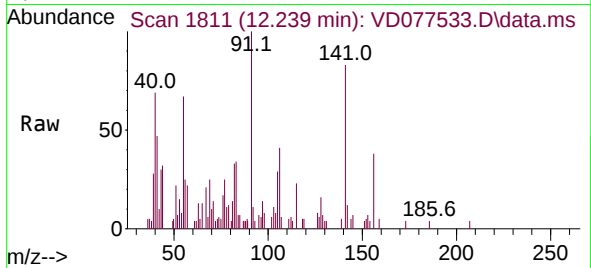
131 13.2 7.2 10.8#



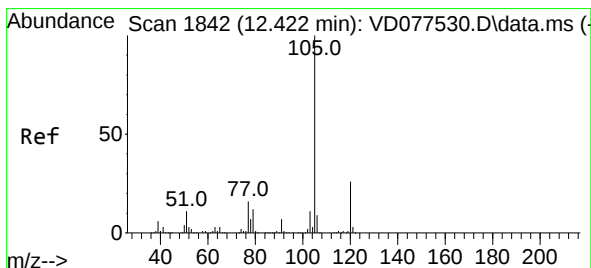
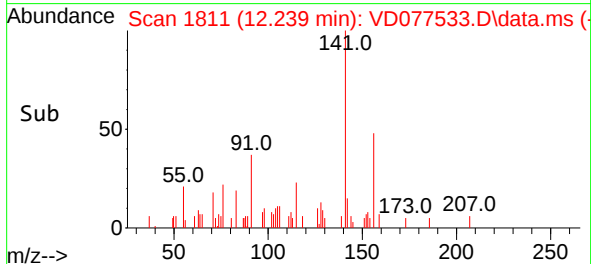
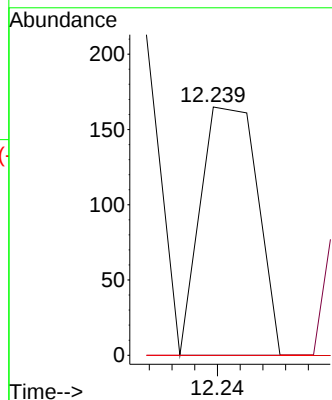


#59
Bromoform
Concen: 19.551 ug/L
RT: 12.239 min Scan# 1811
Delta R.T. -0.065 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

Instrument :
MSVOA_D
ClientSampleId :

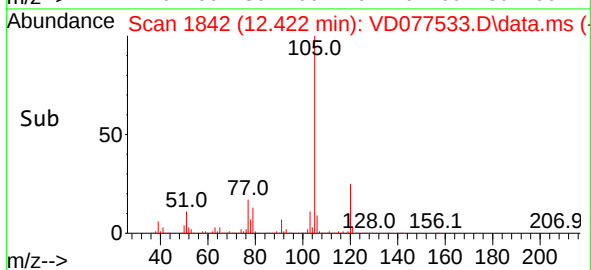
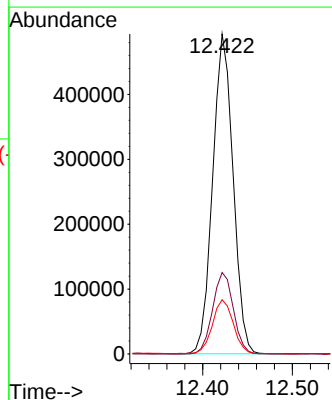
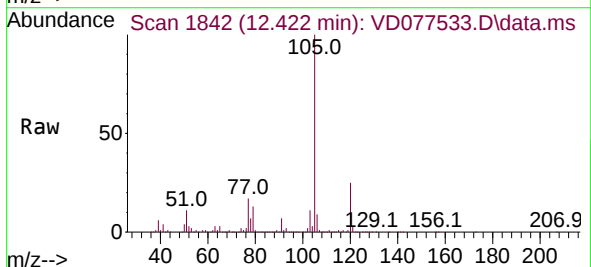


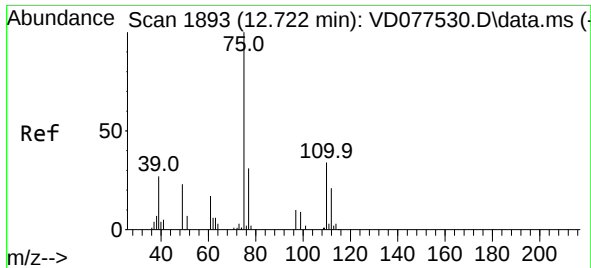
Tgt Ion:173 Resp: 115
Ion Ratio Lower Upper
173 100
175 0.0 38.2 57.2#
254 0.0 7.1 10.7#



#60
Isopropylbenzene
Concen: 13925.160 ug/L
RT: 12.422 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

Tgt Ion:105 Resp: 777085
Ion Ratio Lower Upper
105 100
120 25.9 21.0 31.4
77 17.3 13.4 20.2

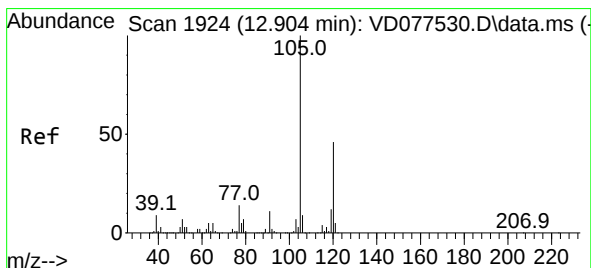
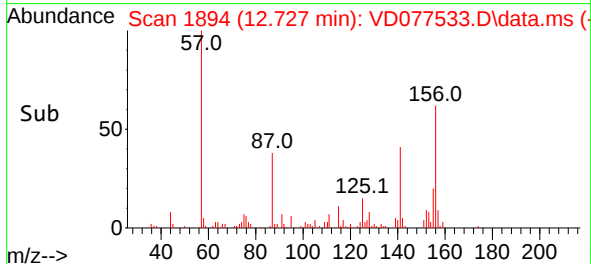
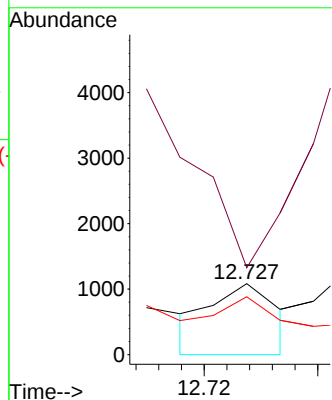
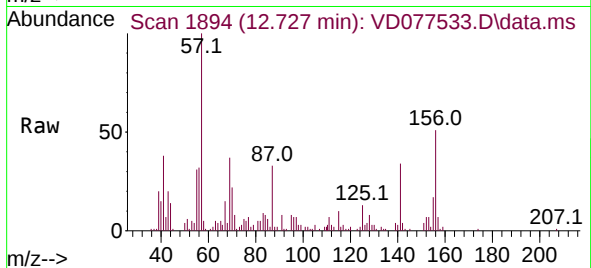




#61
1,2,3-Trichloropropane
Concen: 121.380 ug/L
RT: 12.727 min Scan# 1893
Delta R.T. 0.006 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

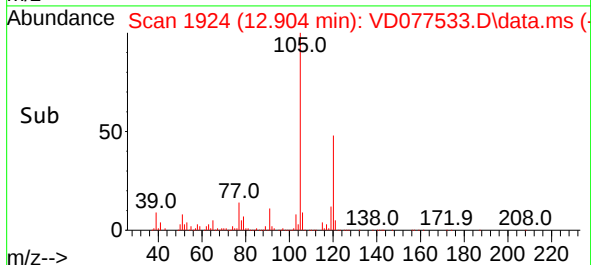
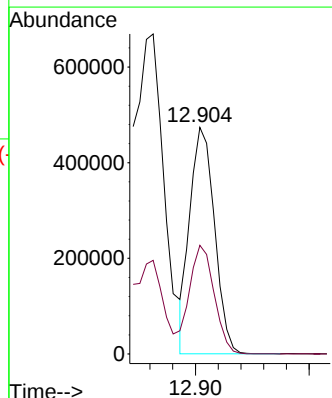
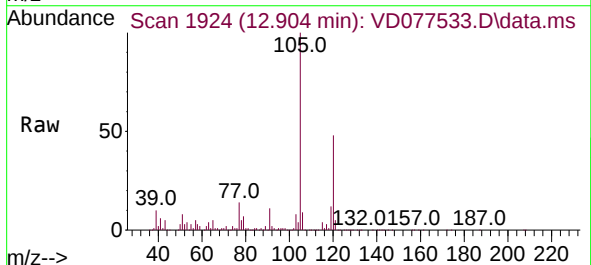
Instrument :
MSVOA_D
ClientSampleId :

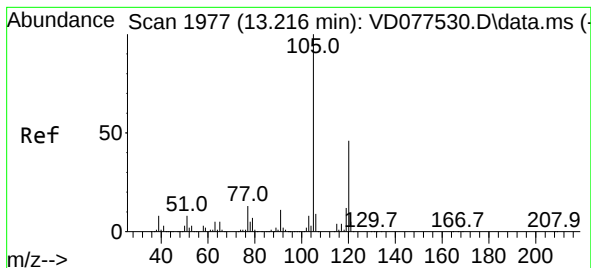
Tgt Ion: 75 Resp: 892
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#
110 36.2 29.6 44.4



#62
1,3,5-Trimethylbenzene
Concen: 16866.918 ug/L
RT: 12.904 min Scan# 1924
Delta R.T. -0.000 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

Tgt Ion:105 Resp: 714362
Ion Ratio Lower Upper
105 100
120 49.3 37.8 56.6





#63

1,2,4-Trimethylbenzene

Concen: 31273.836 ug/L

RT: 13.216 min Scan# 1977

Delta R.T. -0.000 min

Lab File: VD077533.D

Acq: 09 Nov 2023 13:57

Instrument :

MSVOA_D

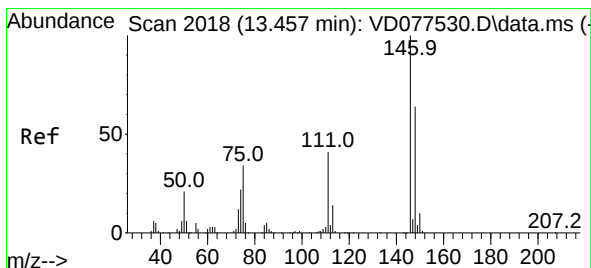
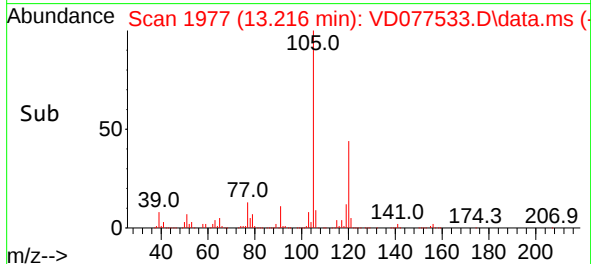
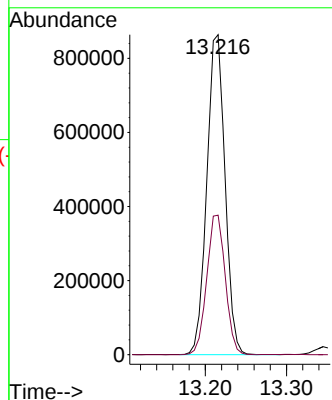
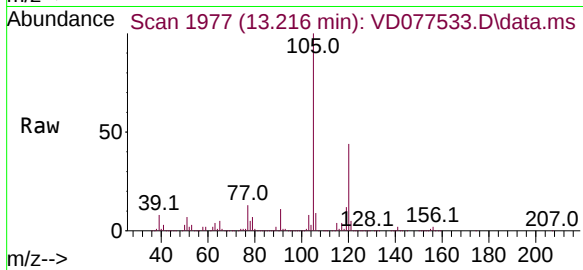
ClientSampleId :

Tgt Ion:105 Resp: 1341719

Ion Ratio Lower Upper

105 100

120 44.4 35.6 53.4



#64

1,3-Dichlorobenzene

Concen: 51931.723 ug/L

RT: 13.457 min Scan# 2018

Delta R.T. -0.000 min

Lab File: VD077533.D

Acq: 09 Nov 2023 13:57

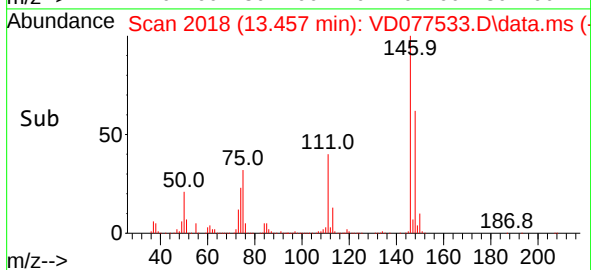
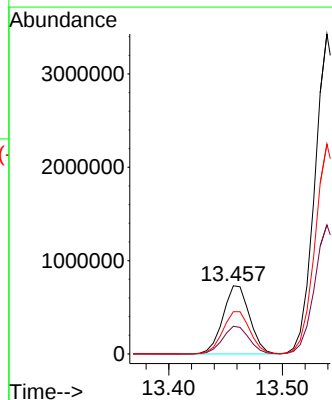
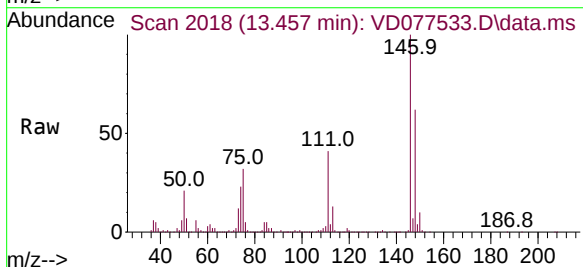
Tgt Ion:146 Resp: 1188921

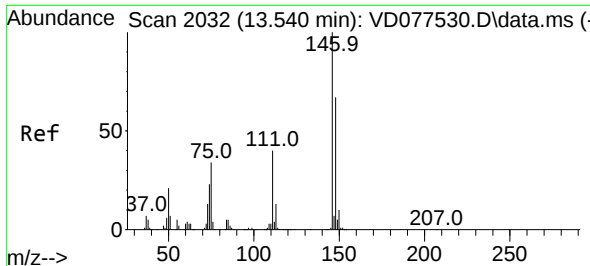
Ion Ratio Lower Upper

146 100

111 40.5 27.2 50.6

148 61.9 44.1 81.9

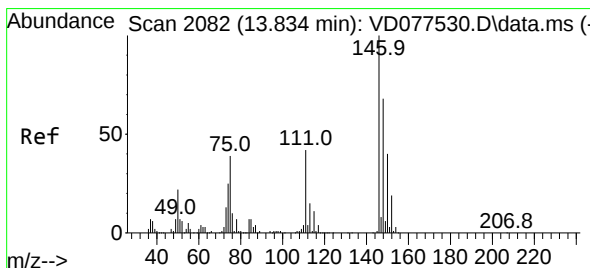
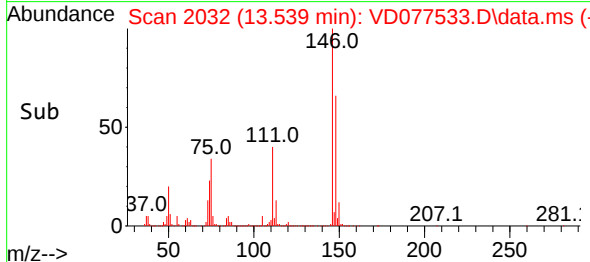
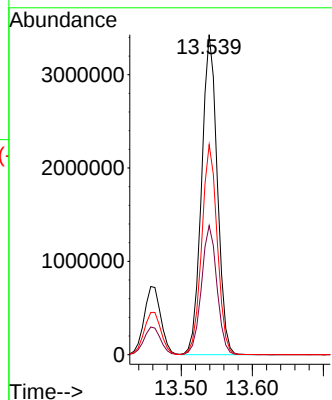
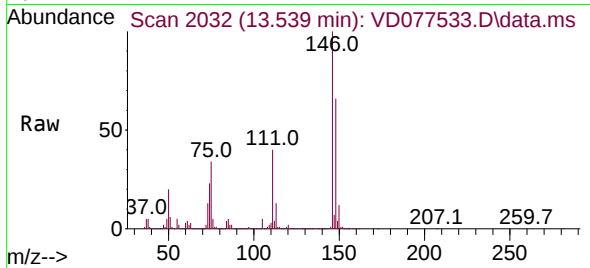




#65
1,4-Dichlorobenzene
Concen: 228087.468 ug/L
RT: 13.539 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

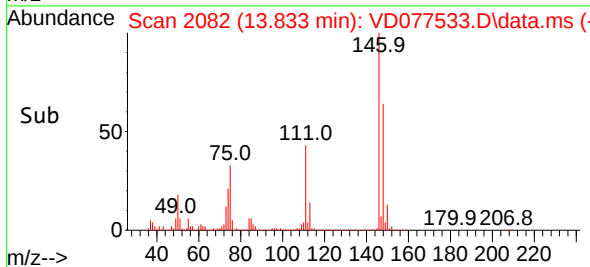
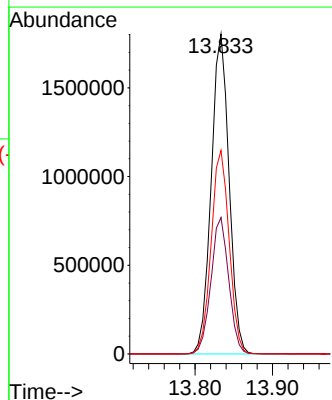
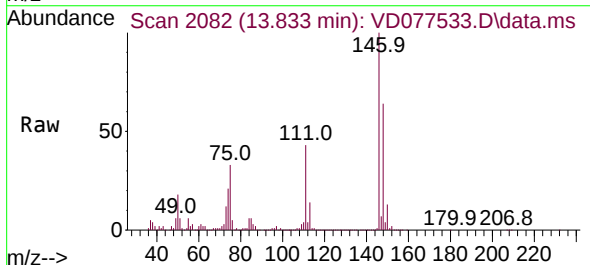
Instrument :
MSVOA_D
ClientSampleId :

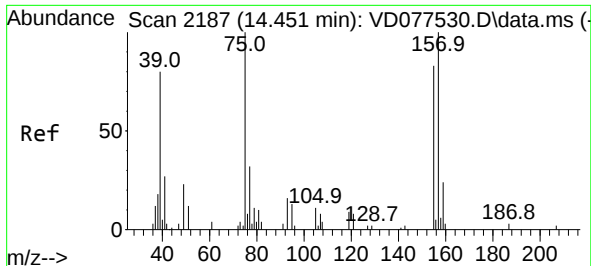
Tgt Ion:146 Resp: 5269867
Ion Ratio Lower Upper
146 100
111 40.4 25.6 47.4
148 65.6 44.1 81.9



#67
1,2-Dichlorobenzene
Concen: 142426.139 ug/L
RT: 13.833 min Scan# 2082
Delta R.T. -0.000 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

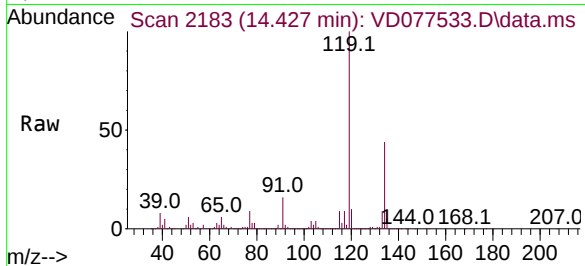
Tgt Ion:146 Resp: 2882788
Ion Ratio Lower Upper
146 100
111 42.7 33.8 50.6
148 63.6 54.3 81.5



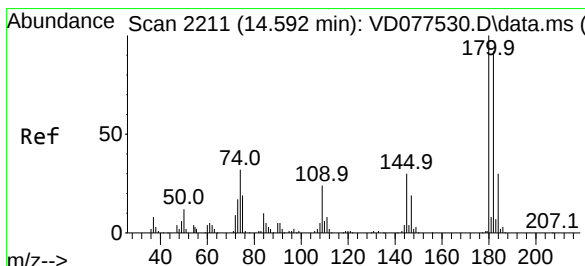
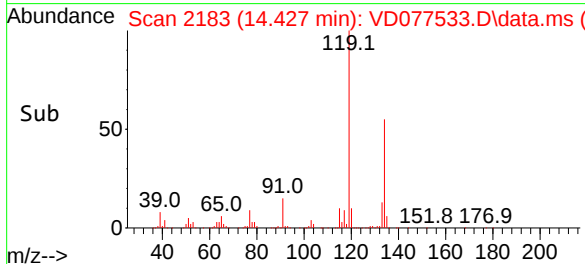
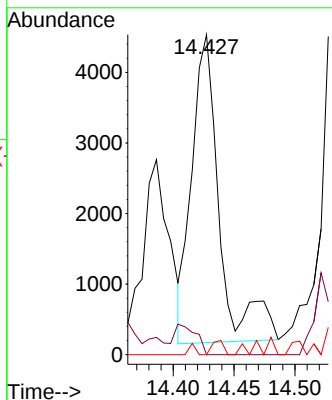


#68
 1,2-Dibromo-3-chloropropane
 Concen: 4314.708 ug/L
 RT: 14.427 min Scan# 2187
 Delta R.T. -0.024 min
 Lab File: VD077533.D
 Acq: 09 Nov 2023 13:57

Instrument :
 MSVOA_D
 ClientSampleId :

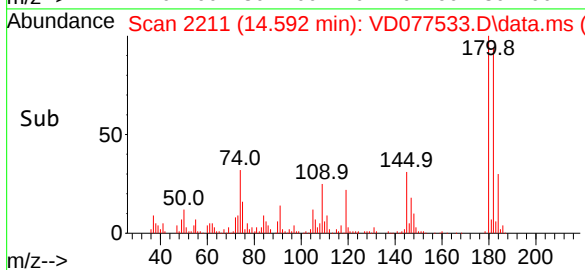
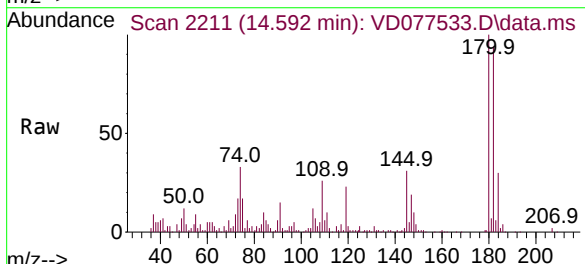
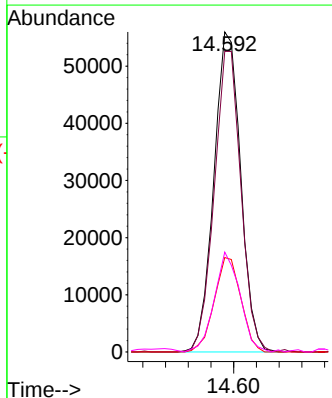


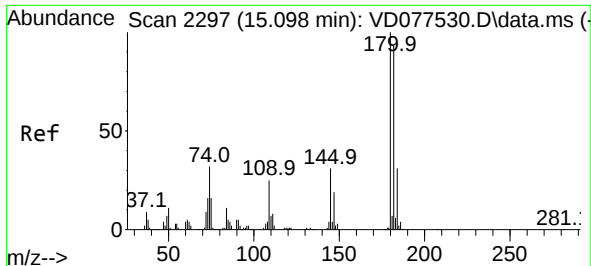
Tgt Ion: 75 Resp: 6897
 Ion Ratio Lower Upper
 75 100
 155 0.0 58.2 87.2#
 157 0.0 68.7 103.1#



#69
 1,3,5-Trichlorobenzene
 Concen: 5869.321 ug/L
 RT: 14.592 min Scan# 2211
 Delta R.T. -0.000 min
 Lab File: VD077533.D
 Acq: 09 Nov 2023 13:57

Tgt Ion:180 Resp: 91493
 Ion Ratio Lower Upper
 180 100
 182 93.9 76.1 114.1
 184 29.5 24.0 36.0
 145 30.0 23.1 34.7

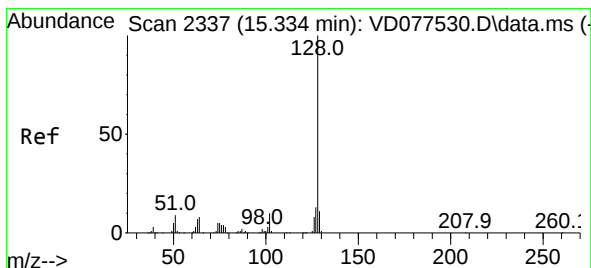
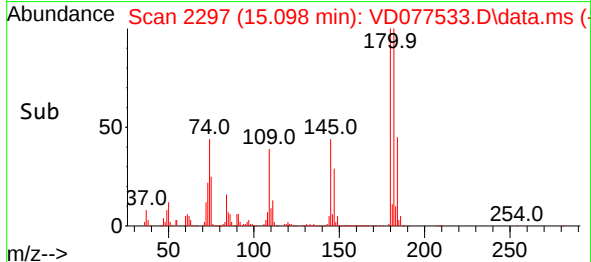
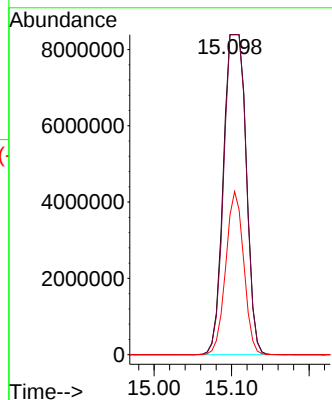
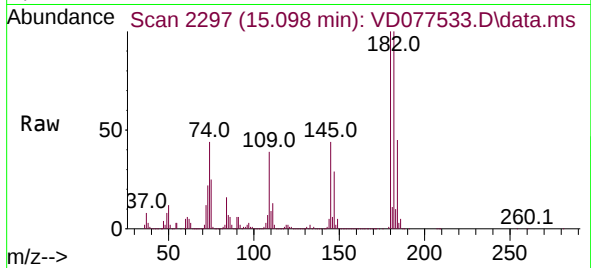




#70
1,2,4-trichlorobenzene
Concen: 1300047.349 ug/L
RT: 15.098 min Scan# 2297
Delta R.T. -0.000 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

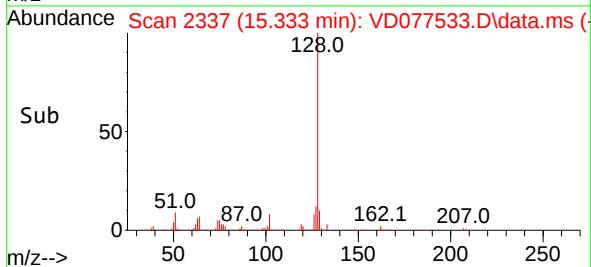
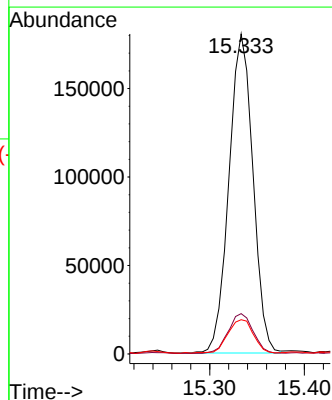
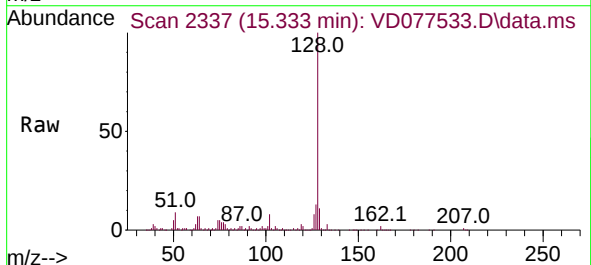
Instrument :
MSVOA_D
ClientSampleId :

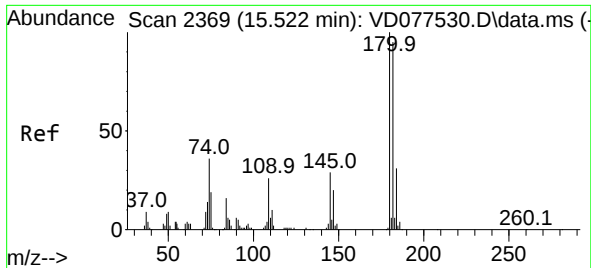
Tgt Ion:180 Resp:17079874
Ion Ratio Lower Upper
180 100
182 98.3 75.8 113.6
145 40.4 24.1 36.1#



#71
Naphthalene
Concen: 12834.775 ug/L
RT: 15.333 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VD077533.D
Acq: 09 Nov 2023 13:57

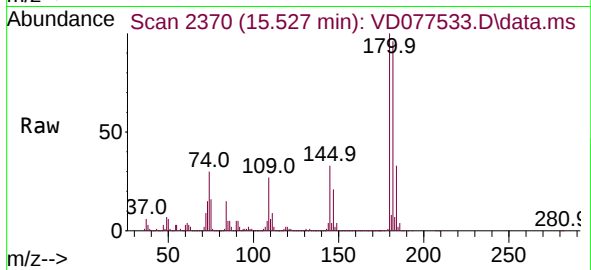
Tgt Ion:128 Resp: 317789
Ion Ratio Lower Upper
128 100
127 13.1 10.5 15.7
129 11.1 9.0 13.6





#72
 1,2,3-Trichlorobenzene
 Concen: 625736.845 ug/L
 RT: 15.527 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VD077533.D
 Acq: 09 Nov 2023 13:57

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	180	Resp:	7009594
Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.8	115.2
145	32.9	26.0	39.0

