

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU112122\
 Data File : VU052034.D
 Acq On : 22 Nov 2022 10:27
 Operator : JC/MD
 Sample : N5716-06DL 5X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A0B26DL

Quant Time: Nov 23 03:26:07 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112122WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 22 07:34:37 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	439106	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	439936	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	178711	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	171575	45.090	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.180%
7) Chloroethane-d5	1.906	69	146078	48.474	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.940%
11) 1,1-Dichloroethene-d2	2.565	63	204154	36.195	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.400%
21) 2-Butanone-d5	4.616	46	240572	105.208	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.210%
24) Chloroform-d	5.060	84	296803	47.606	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.220%
26) 1,2-Dichloroethane-d4	5.700	65	186074	49.624	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.240%
32) Benzene-d6	5.726	84	625062	47.667	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.340%
36) 1,2-Dichloropropane-d6	6.687	67	205401	48.757	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.520%
41) Toluene-d8	7.896	98	544624	46.485	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.980%
43) trans-1,3-Dichloroprop...	8.176	79	82993	46.278	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.560%
47) 2-Hexanone-d5	8.629	63	162361	98.799	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.800%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	321820	48.287	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.580%
66) 1,2-Dichlorobenzene-d4	12.188	152	190597	51.573	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.140%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.385	85	12811	5.435	ug/L	97
3) Chloromethane	1.527	50	38954	11.531	ug/L	99
6) Bromomethane	1.842	94	12759	7.329	ug/L	97
9) Trichlorofluoromethane	2.134	101	27740	6.690	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.578	101	26388	9.912	ug/L	94
13) Acetone	2.620	43	161814	77.466	ug/L	98
15) Methyl Acetate	2.944	43	83956	25.176	ug/L	99
16) Methylene chloride	3.044	84	21091	5.446	ug/L	92
18) Methyl tert-butyl Ether	3.359	73	211306	24.047	ug/L	99
22) 2-Butanone	4.706	43	30192	11.593	ug/L	91
27) 1,2-Dichloroethane	5.793	62	78298	18.174	ug/L	99
29) Cyclohexane	5.385	56	18243	4.729	ug/L	97
34) Trichloroethene	6.542	95	27234	8.956	ug/L	97
35) Methylcyclohexane	6.761	83	56667	13.597	ug/L	97
40) 4-Methyl-2-pentanone	7.787	43	134980	29.148	ug/L	98
42) Toluene	7.967	91	191568	14.224	ug/L	97
46) Tetrachloroethene	8.549	164	10520	4.586	ug/L	94
48) 2-Hexanone	8.684	43	90303	23.564	ug/L	99
51) Chlorobenzene	9.446	112	51136	5.771	ug/L	97

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

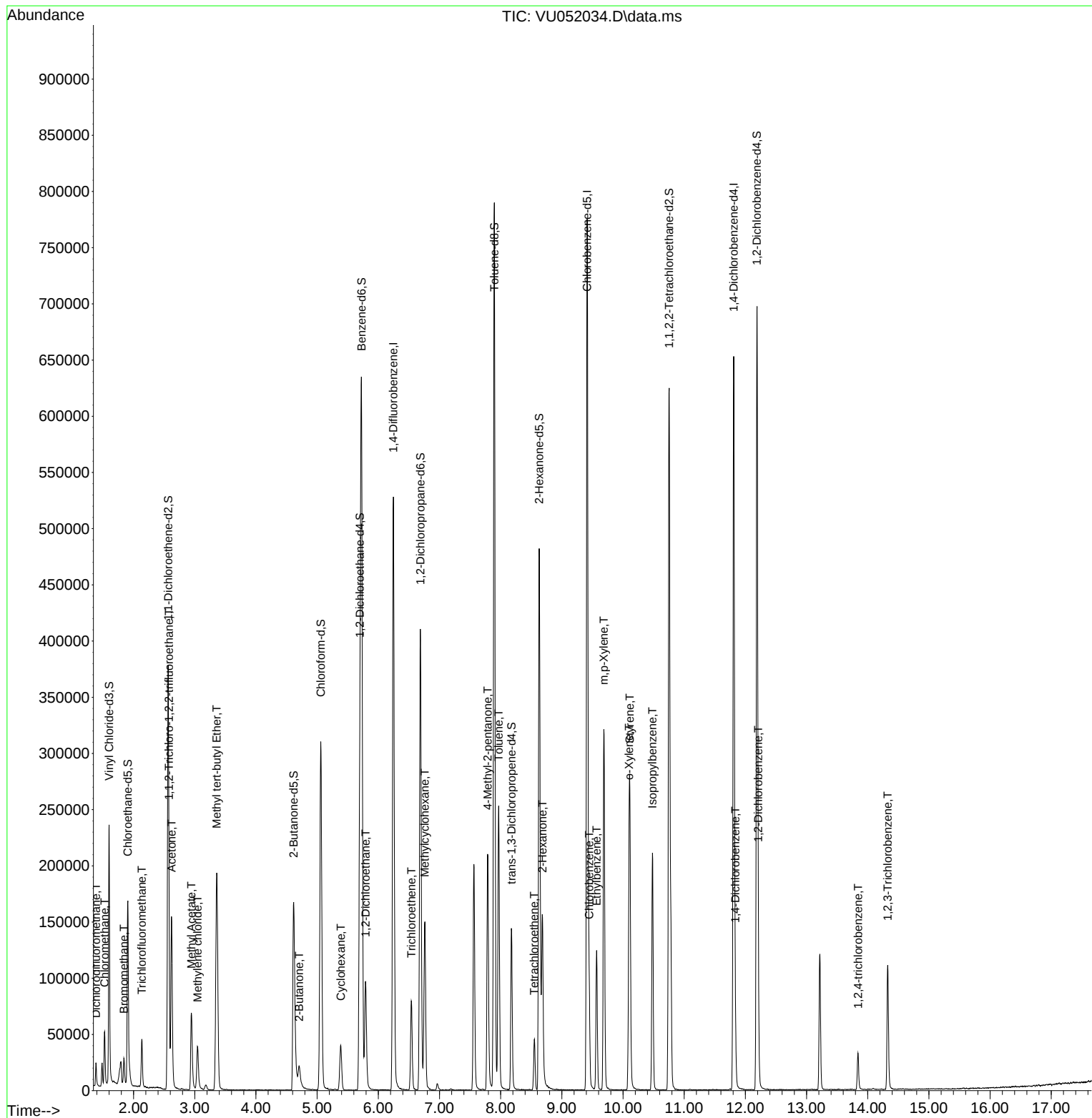
52) Ethylbenzene	9.568	91	86466	6.306	ug/L	97
53) m,p-Xylene	9.687	106	91127	17.200	ug/L	99
54) o-Xylene	10.099	106	44307	8.265	ug/L	91
55) Styrene	10.111	104	106685	11.747	ug/L	98
61) Isopropylbenzene	10.481	105	133238	12.218	ug/L	100
65) 1,4-Dichlorobenzene	11.835	146	25106	4.661	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	27754	5.011	ug/L	97
70) 1,2,4-trichlorobenzene	13.841	180	11410	4.025	ug/L	99
72) 1,2,3-Trichlorobenzene	14.327	180	37616	12.248	ug/L	100

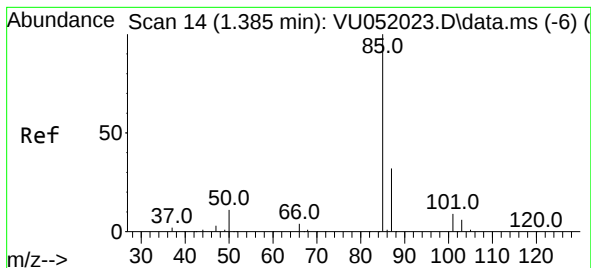
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

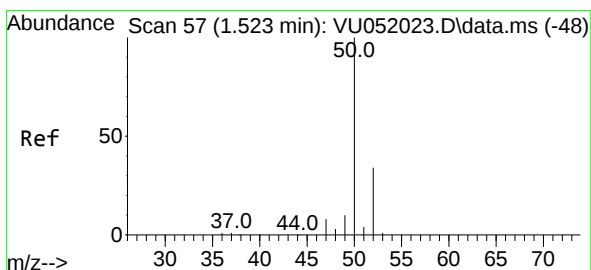
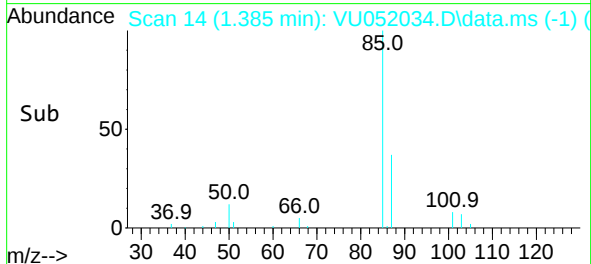
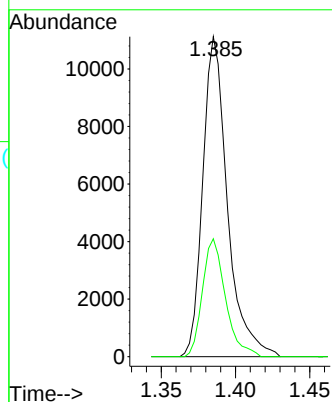
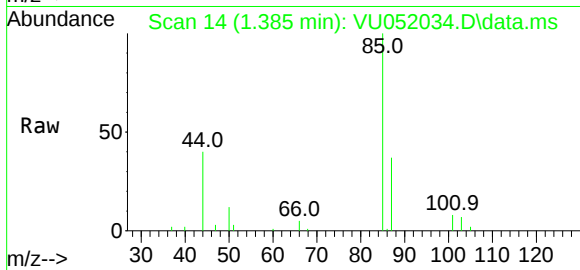




#2
Dichlorodifluoromethane
Concen: 5.435 ug/L
RT: 1.385 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

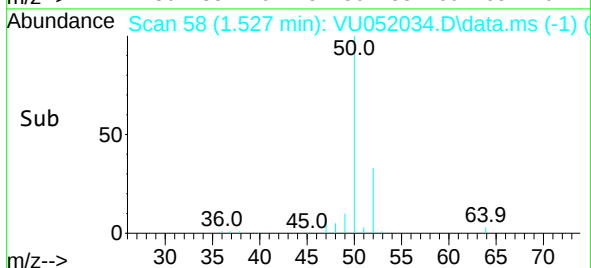
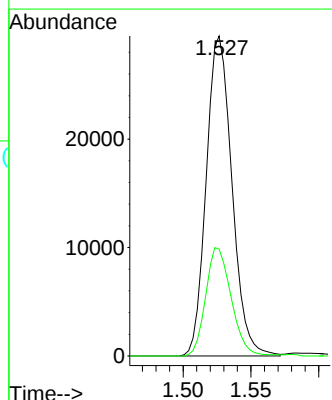
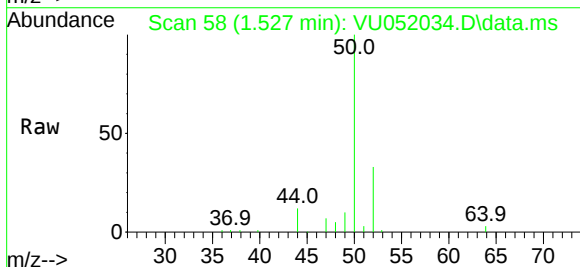
Instrument :
MSVOA_U
ClientSampleId :
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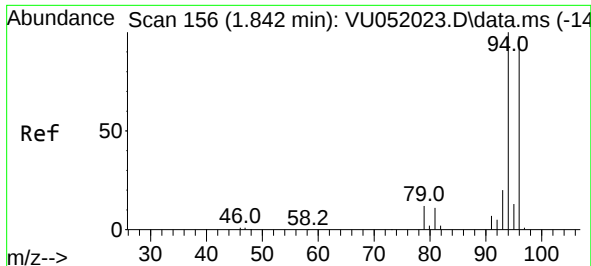
Tgt Ion: 85 Resp: 12811
Ion Ratio Lower Upper
85 100
87 34.3 25.9 38.9



#3
Chloromethane
Concen: 11.531 ug/L
RT: 1.527 min Scan# 58
Delta R.T. 0.003 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

Tgt Ion: 50 Resp: 38954
Ion Ratio Lower Upper
50 100
52 33.4 23.1 42.9

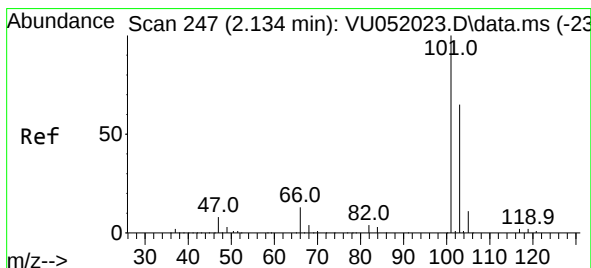
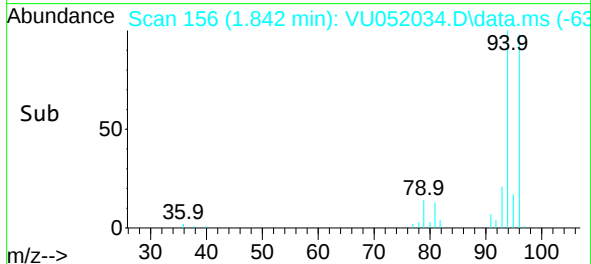
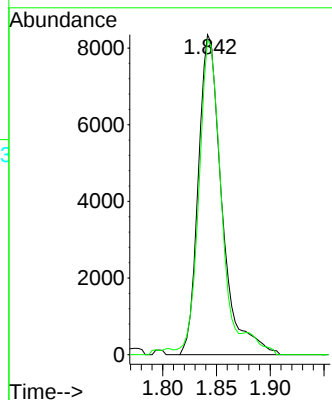
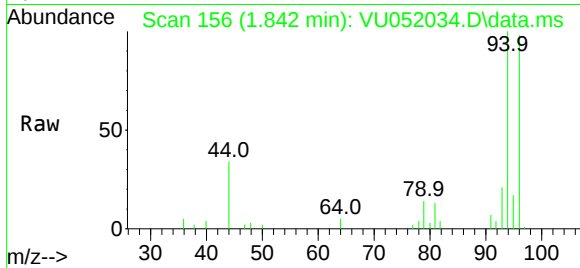




#6
Bromomethane
Concen: 7.329 ug/L
RT: 1.842 min Scan# 156
Delta R.T. 0.000 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

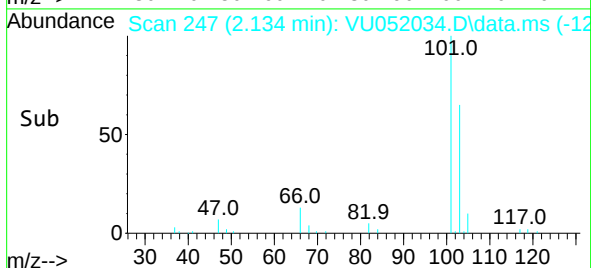
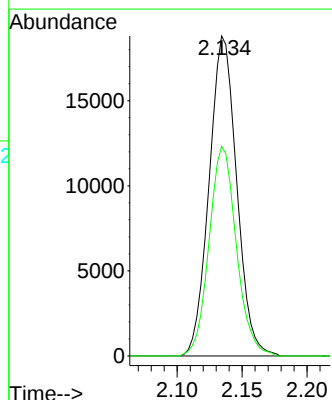
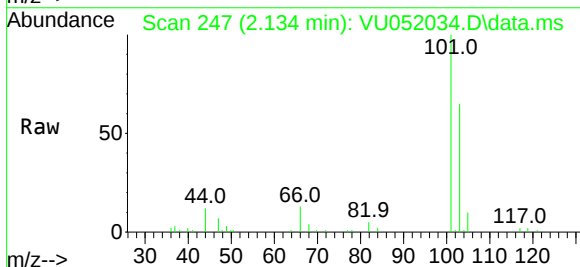
Instrument :
MSVOA_U
ClientSampleId :
A0B26DL

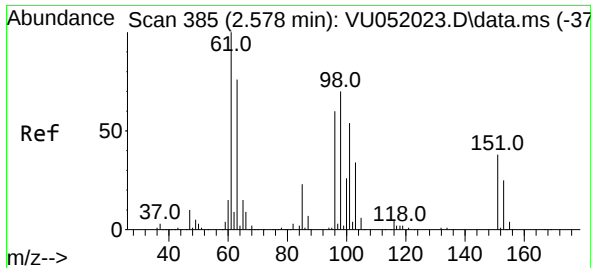
Tgt Ion: 94 Resp: 12759
Ion Ratio Lower Upper
94 100
96 98.3 66.8 124.0



#9
Trichlorofluoromethane
Concen: 6.690 ug/L
RT: 2.134 min Scan# 247
Delta R.T. 0.000 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

Tgt Ion:101 Resp: 27740
Ion Ratio Lower Upper
101 100
103 64.8 51.5 77.3

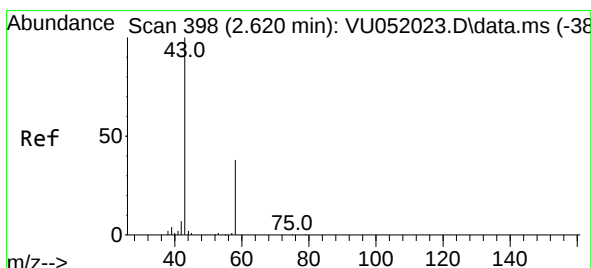
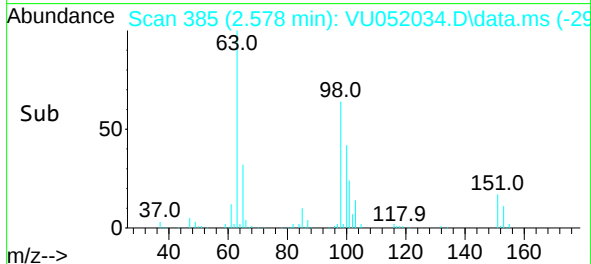
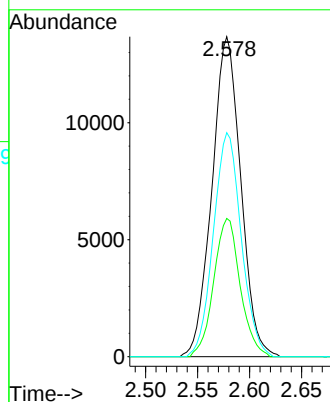
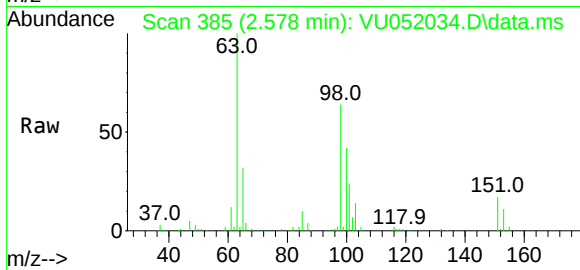




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 9.912 ug/L
RT: 2.578 min Scan# 385
Delta R.T. 0.000 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

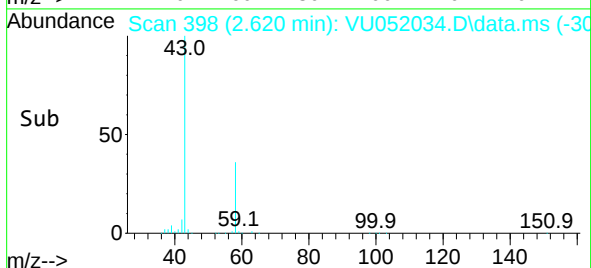
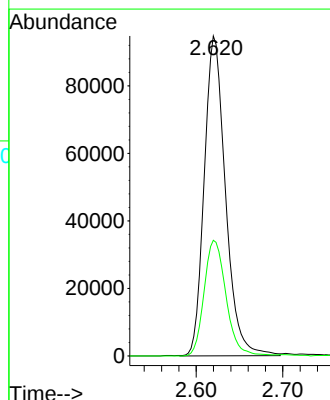
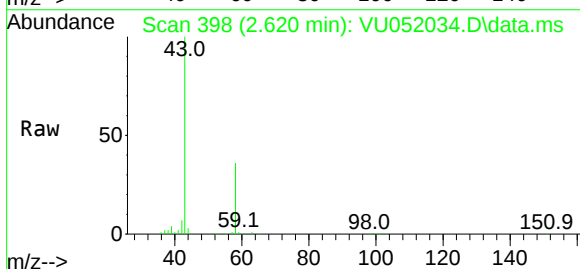
Instrument :
MSVOA_U
ClientSampleId :
A0B26DL

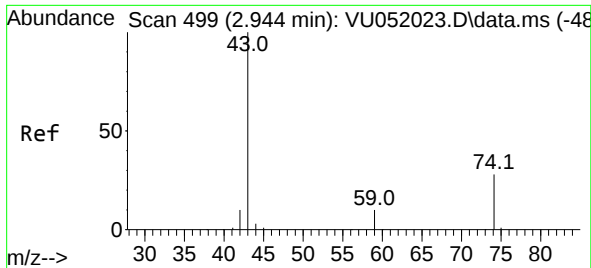
Tgt Ion:101 Resp: 26388
Ion Ratio Lower Upper
101 100
85 39.6 33.6 50.4
151 67.7 58.9 88.3



#13
Acetone
Concen: 77.466 ug/L
RT: 2.620 min Scan# 398
Delta R.T. 0.000 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

Tgt Ion: 43 Resp: 161814
Ion Ratio Lower Upper
43 100
58 37.3 0.0 76.6

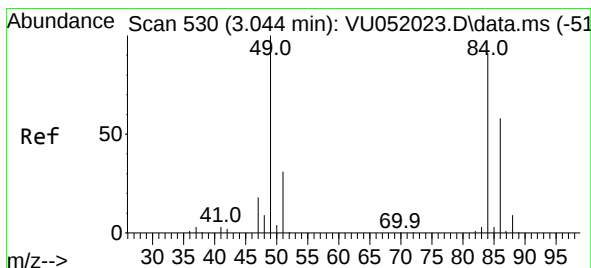
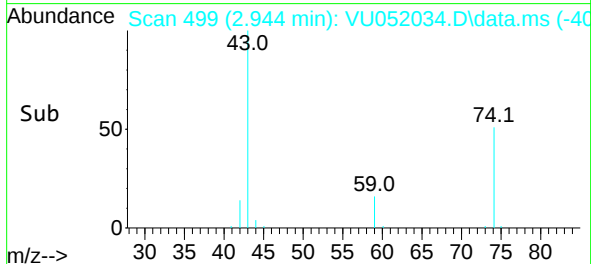
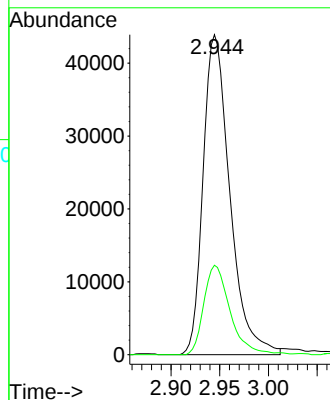
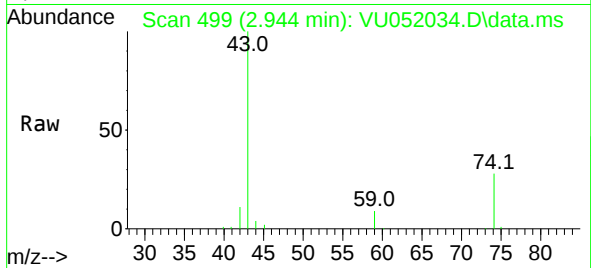




#15
Methyl Acetate
Concen: 25.176 ug/L
RT: 2.944 min Scan# 499
Delta R.T. 0.003 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

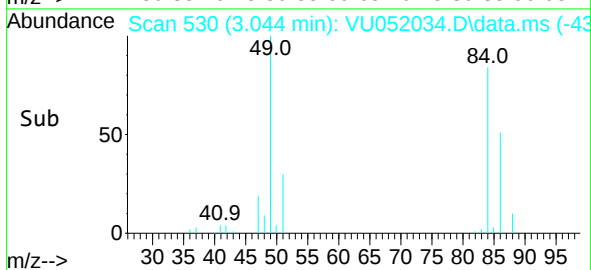
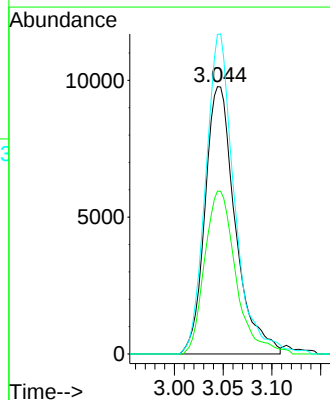
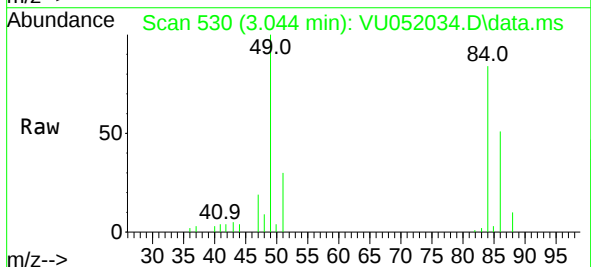
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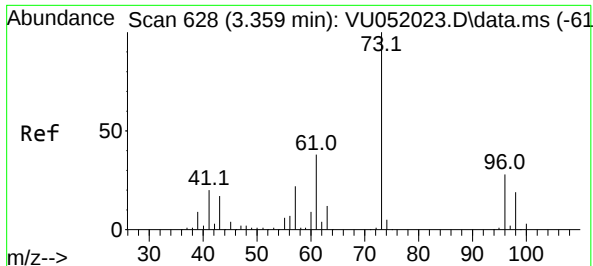
Tgt Ion: 43 Resp: 83956
Ion Ratio Lower Upper
43 100
74 27.2 22.2 33.4



#16
Methylene chloride
Concen: 5.446 ug/L
RT: 3.044 min Scan# 530
Delta R.T. 0.000 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

Tgt Ion: 84 Resp: 21091
Ion Ratio Lower Upper
84 100
86 60.9 45.2 84.0
49 119.5 75.9 141.1

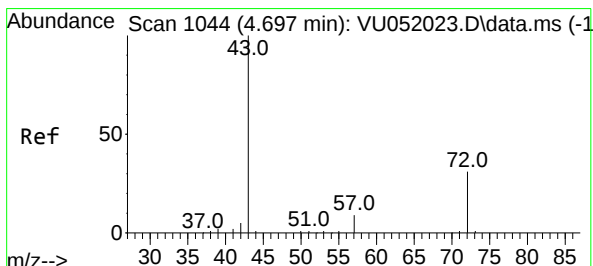
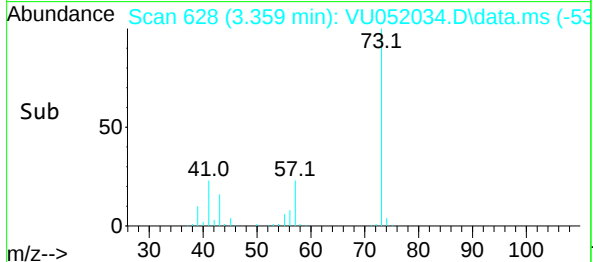
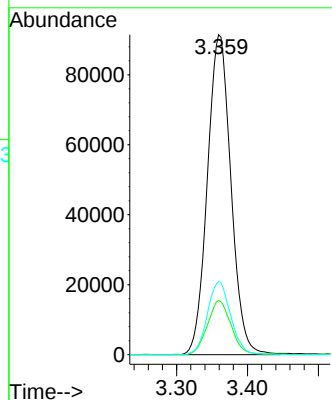
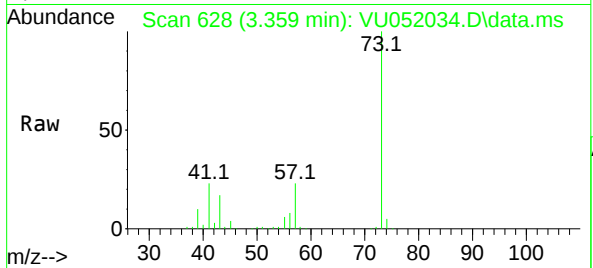




#18
Methyl tert-butyl Ether
Concen: 24.047 ug/L
RT: 3.359 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

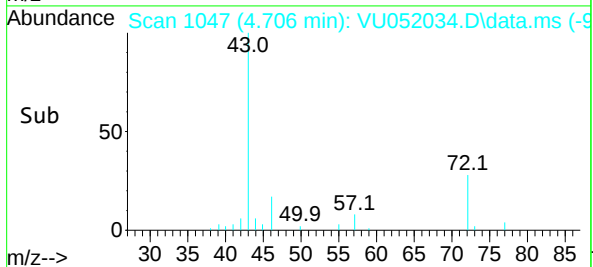
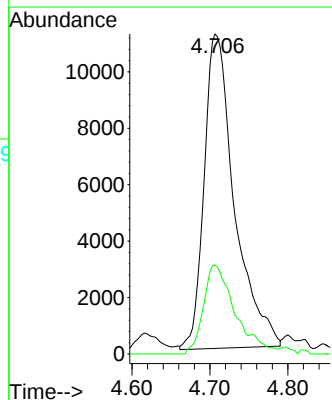
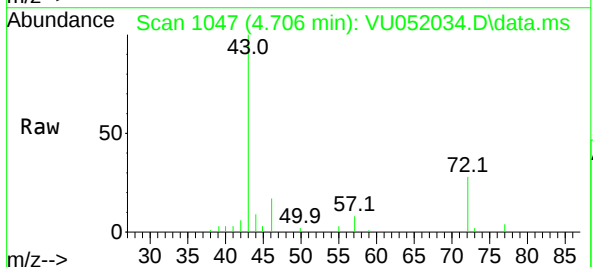
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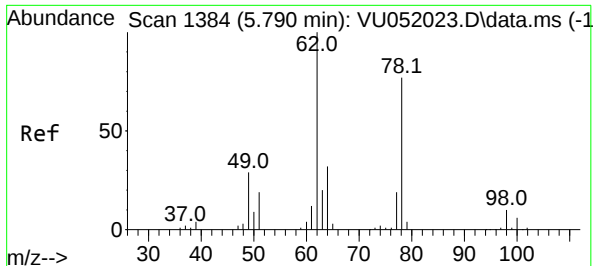
Tgt Ion: 73 Resp: 211306
Ion Ratio Lower Upper
73 100
43 17.1 13.1 19.7
57 22.5 17.8 26.6



#22
2-Butanone
Concen: 11.593 ug/L
RT: 4.706 min Scan# 1047
Delta R.T. 0.010 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

Tgt Ion: 43 Resp: 30192
Ion Ratio Lower Upper
43 100
72 26.6 15.9 47.7

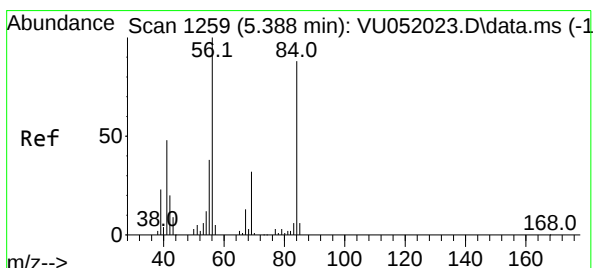
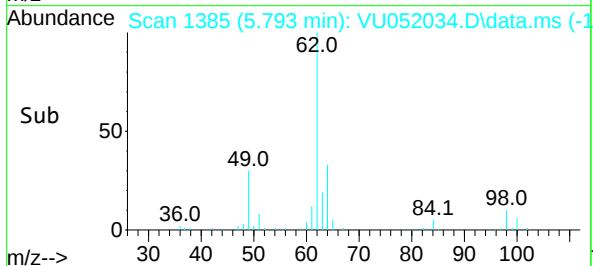
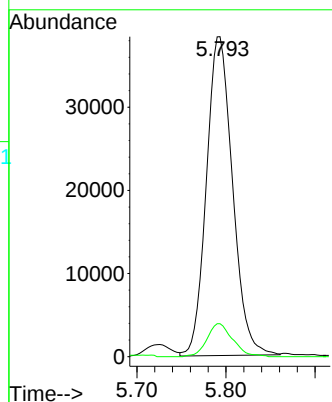
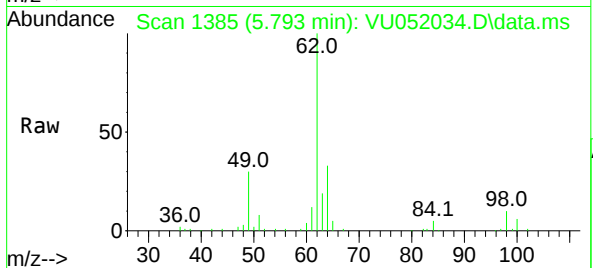




#27
1,2-Dichloroethane
Concen: 18.174 ug/L
RT: 5.793 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

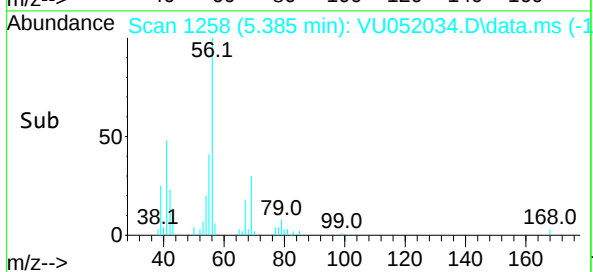
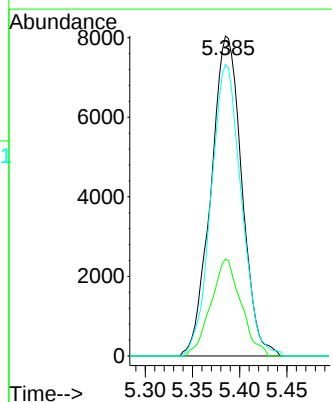
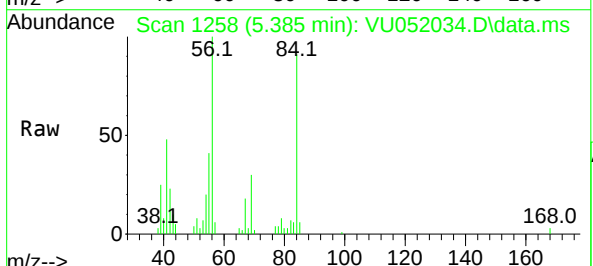
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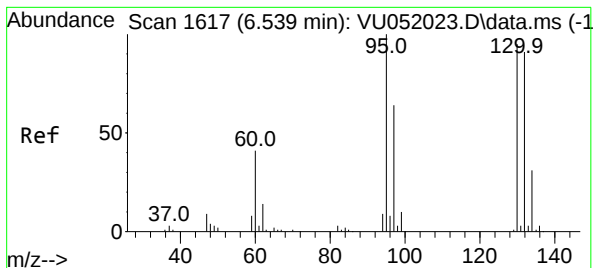
Tgt Ion: 62 Resp: 78298
Ion Ratio Lower Upper
62 100
98 10.3 7.9 11.9



#29
Cyclohexane
Concen: 4.729 ug/L
RT: 5.385 min Scan# 1258
Delta R.T. -0.003 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

Tgt Ion: 56 Resp: 18243
Ion Ratio Lower Upper
56 100
69 29.5 25.7 38.5
84 89.7 70.2 105.2





#34

Trichloroethene

Concen: 8.956 ug/L

RT: 6.542 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU052034.D

Acq: 22 Nov 2022 10:27

Instrument :

MSVOA_U

ClientSampleId :

A0B26DL

Tgt Ion: 95 Resp: 27234

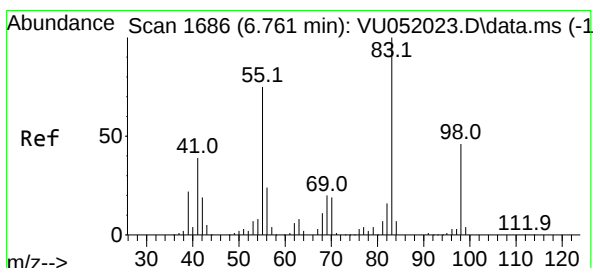
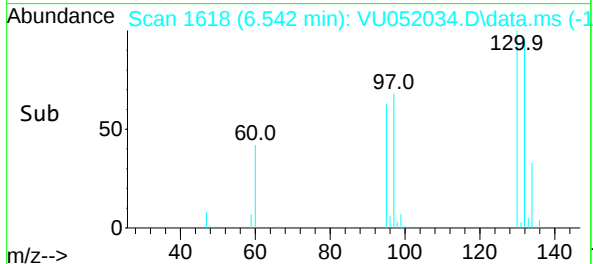
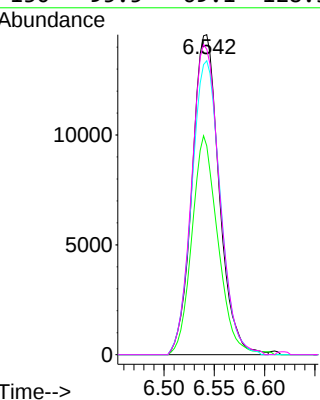
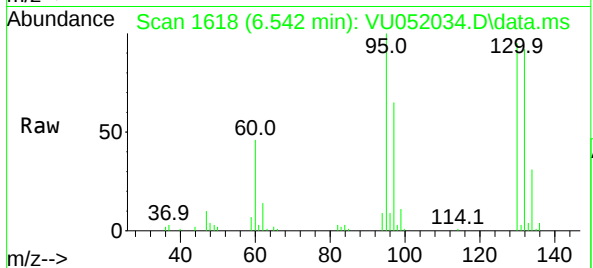
Ion Ratio Lower Upper

95 100

97 65.3 45.3 84.1

132 91.8 66.8 124.2

130 95.5 69.1 128.3



#35

Methylcyclohexane

Concen: 13.597 ug/L

RT: 6.761 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VU052034.D

Acq: 22 Nov 2022 10:27

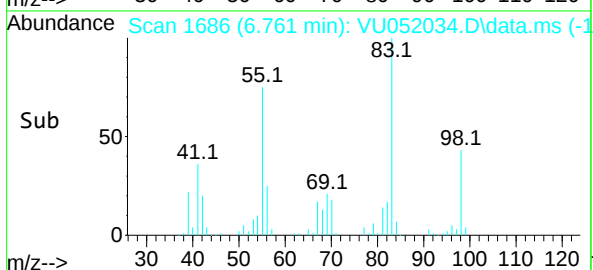
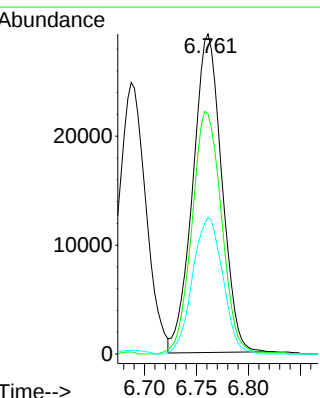
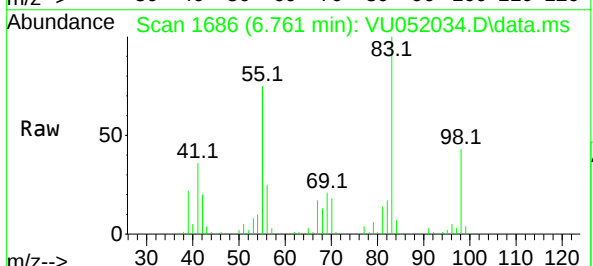
Tgt Ion: 83 Resp: 56667

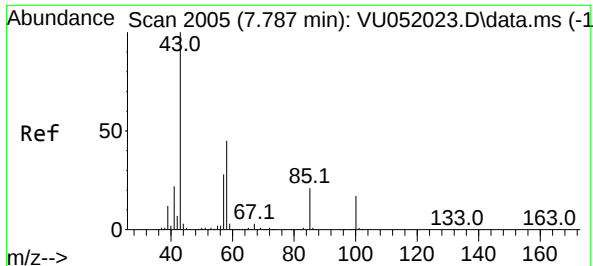
Ion Ratio Lower Upper

83 100

55 77.8 59.0 88.6

98 44.6 36.0 54.0

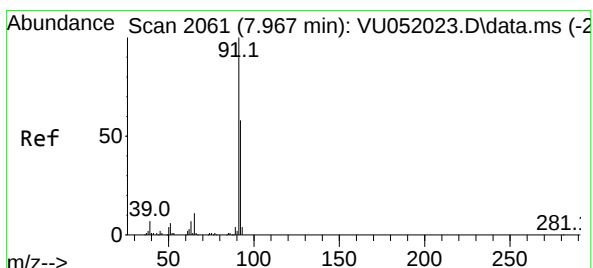
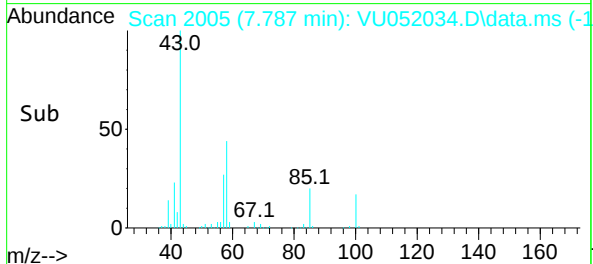
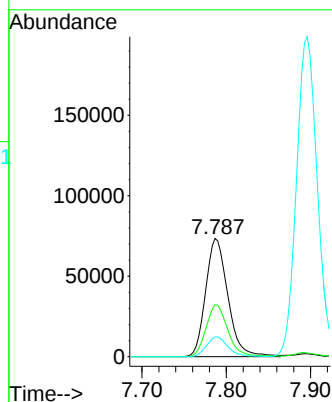
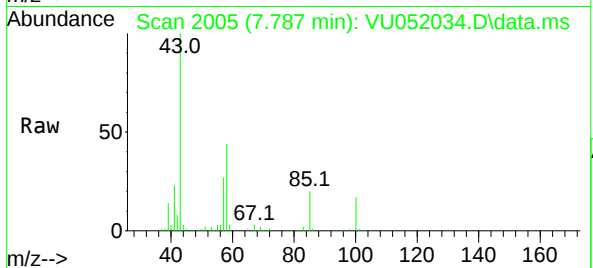




#40
4-Methyl-2-pentanone
Concen: 29.148 ug/L
RT: 7.787 min Scan# 2005
Delta R.T. 0.000 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

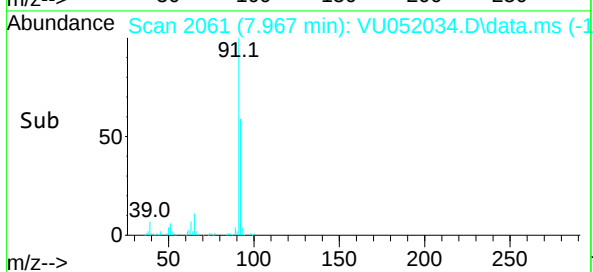
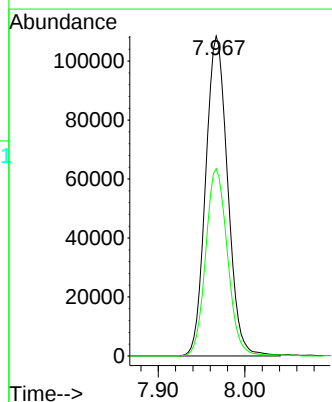
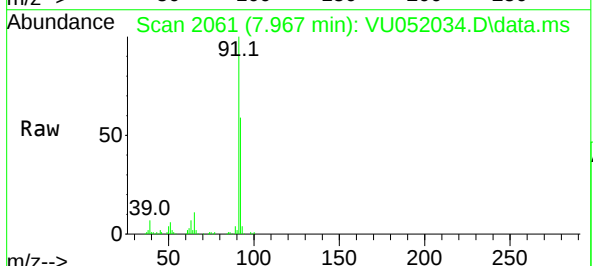
Instrument :
MSVOA_U
ClientSampleId :
A0B26DL

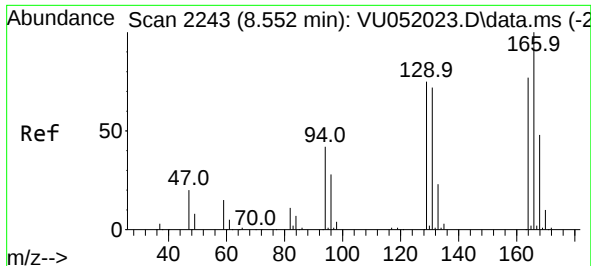
Tgt Ion:	43	Resp:	134980
Ion	Ratio	Lower	Upper
43	100		
58	42.9	35.8	53.6
100	16.2	13.5	20.3



#42
Toluene
Concen: 14.224 ug/L
RT: 7.967 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

Tgt Ion:	91	Resp:	191568
Ion	Ratio	Lower	Upper
91	100		
92	58.6	39.2	72.8

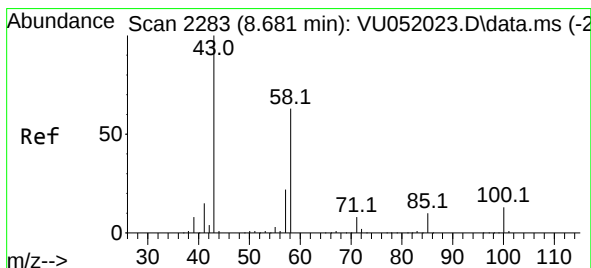
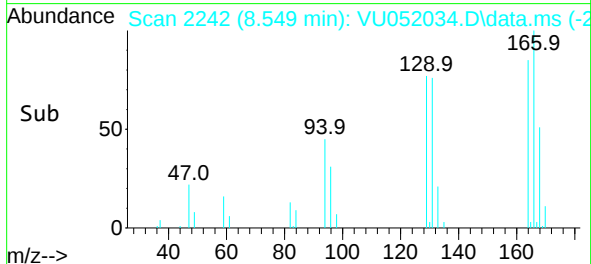
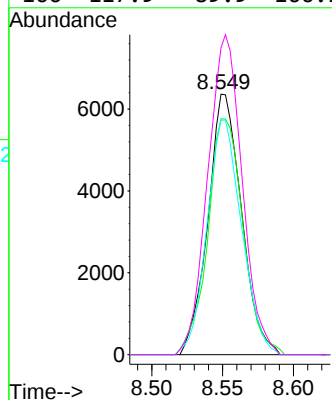
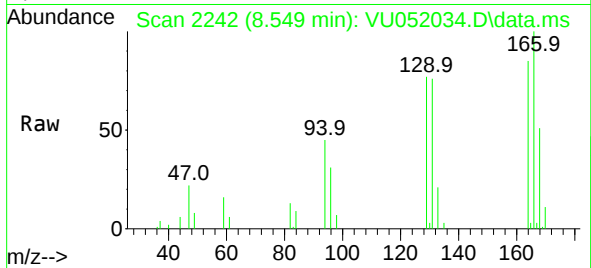




#46
Tetrachloroethene
Concen: 4.586 ug/L
RT: 8.549 min Scan# 211
Delta R.T. -0.003 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

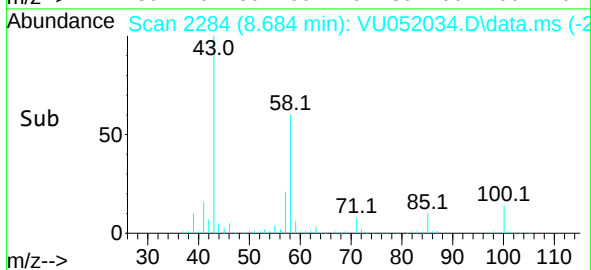
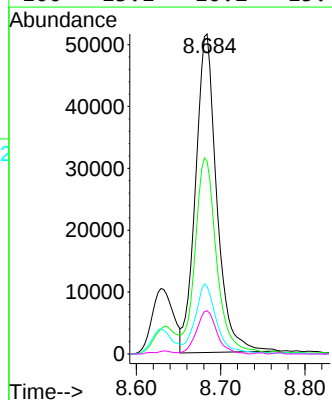
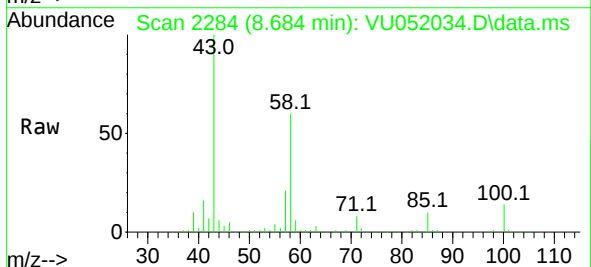
Instrument :
MSVOA_U
ClientSampleId :
A0B26DL

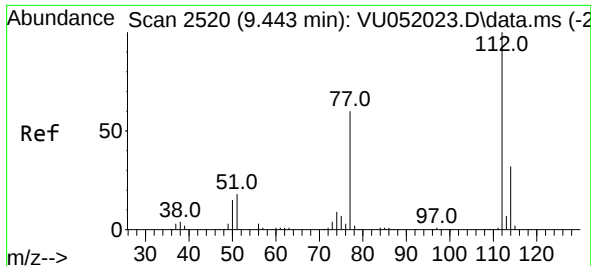
Tgt Ion:164 Resp: 10520
Ion Ratio Lower Upper
164 100
129 90.6 67.3 124.9
131 90.1 65.2 121.2
166 117.9 89.9 166.9



#48
2-Hexanone
Concen: 23.564 ug/L
RT: 8.684 min Scan# 2284
Delta R.T. 0.003 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

Tgt Ion: 43 Resp: 90303
Ion Ratio Lower Upper
43 100
58 62.7 49.6 74.4
57 21.8 16.8 25.2
100 13.1 10.2 15.4

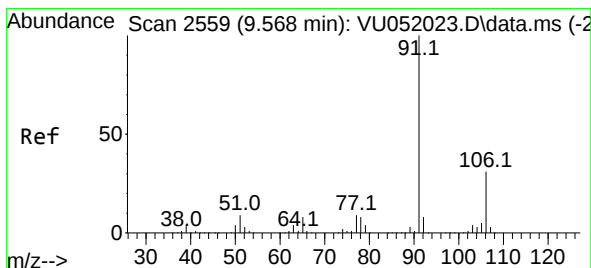
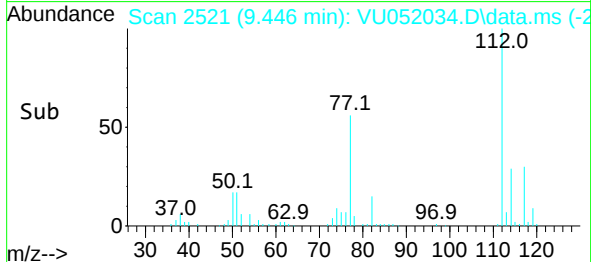
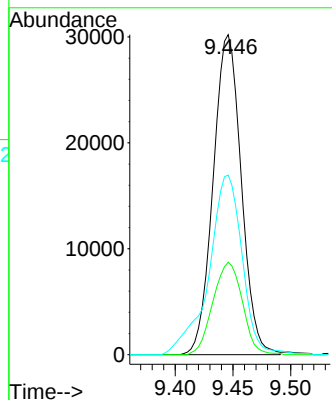
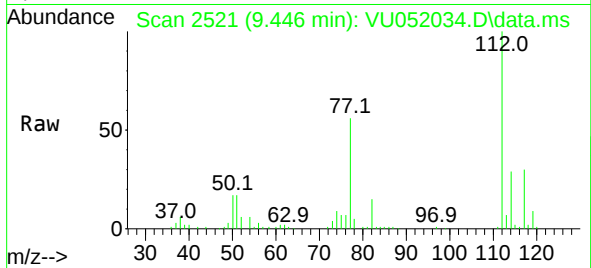




#51
Chlorobenzene
Concen: 5.771 ug/L
RT: 9.446 min Scan# 2112
Delta R.T. 0.003 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

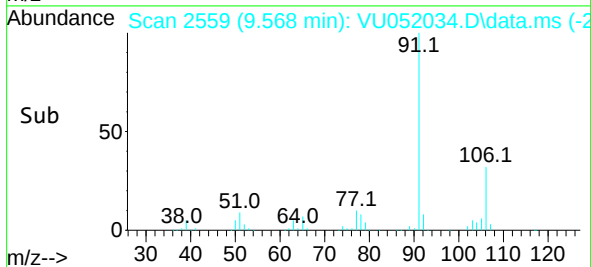
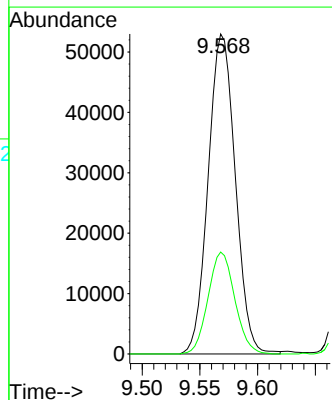
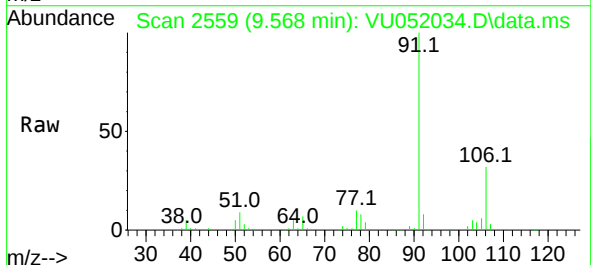
Instrument :
MSVOA_U
ClientSampleId :
A0B26DL

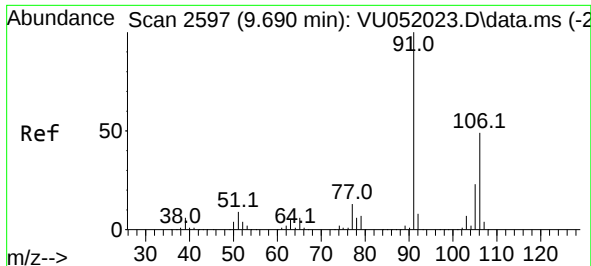
Tgt Ion:112 Resp: 51136
Ion Ratio Lower Upper
112 100
114 28.9 22.2 41.2
77 56.2 46.5 69.7



#52
Ethylbenzene
Concen: 6.306 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.000 min
Lab File: VU052034.D
Acq: 22 Nov 2022 10:27

Tgt Ion: 91 Resp: 86466
Ion Ratio Lower Upper
91 100
106 31.8 21.2 39.4





#53

m,p-Xylene

Concen: 17.200 ug/L

RT: 9.687 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU052034.D

Acq: 22 Nov 2022 10:27

Instrument :

MSVOA_U

ClientSampleId :

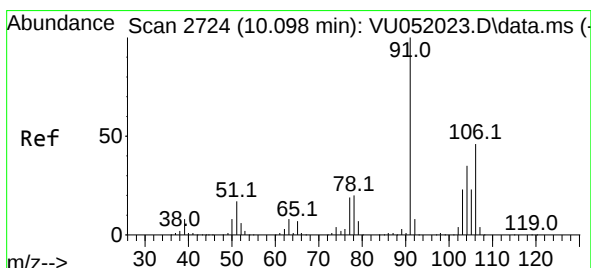
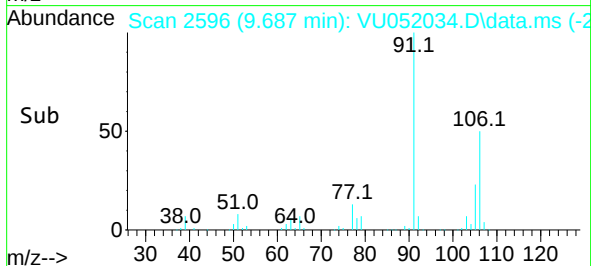
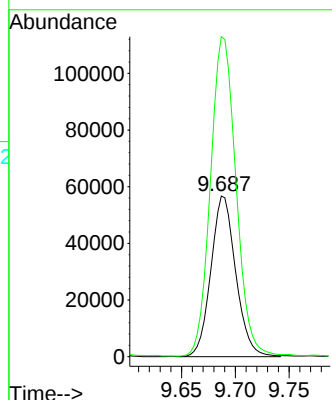
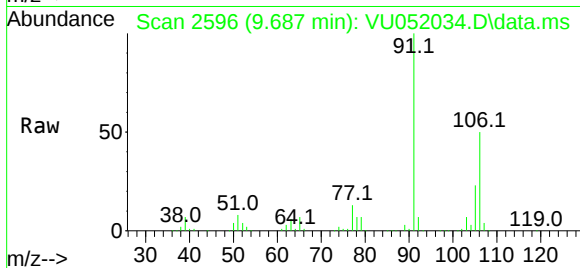
A0B26DL

Tgt Ion:106 Resp: 91127

Ion Ratio Lower Upper

106 100

91 199.3 140.3 260.6



#54

o-Xylene

Concen: 8.265 ug/L

RT: 10.099 min Scan# 2724

Delta R.T. 0.000 min

Lab File: VU052034.D

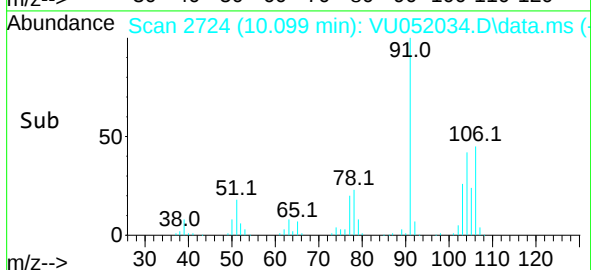
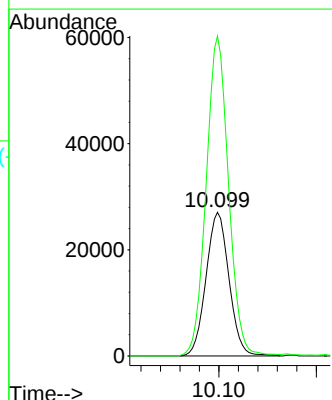
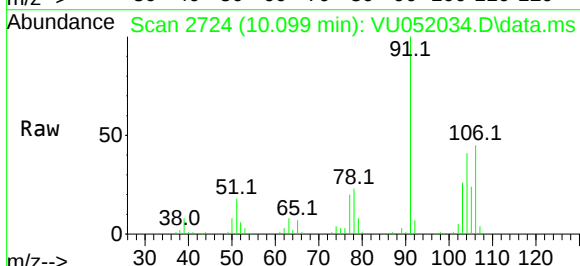
Acq: 22 Nov 2022 10:27

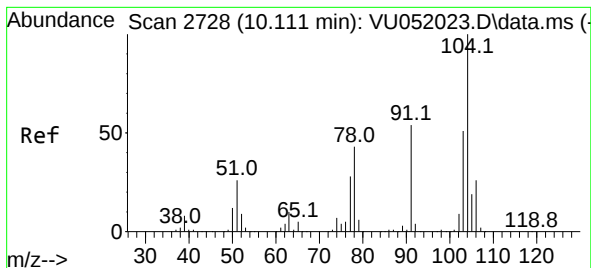
Tgt Ion:106 Resp: 44307

Ion Ratio Lower Upper

106 100

91 222.8 146.7 272.4





#55

Styrene

Concen: 11.747 ug/L

RT: 10.111 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU052034.D

Acq: 22 Nov 2022 10:27

Instrument :

MSVOA_U

ClientSampleId :

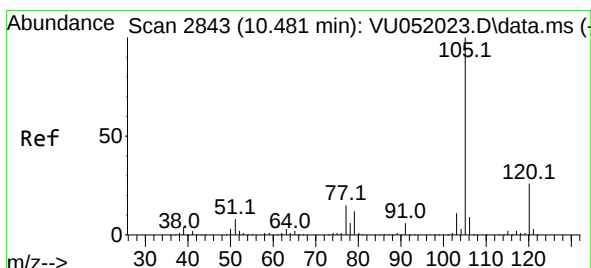
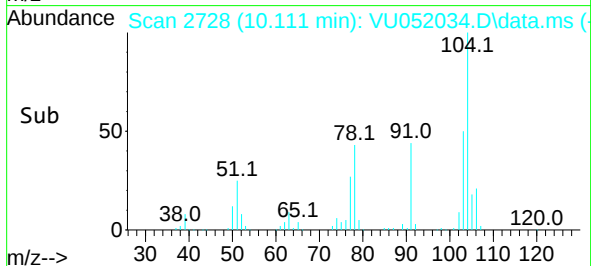
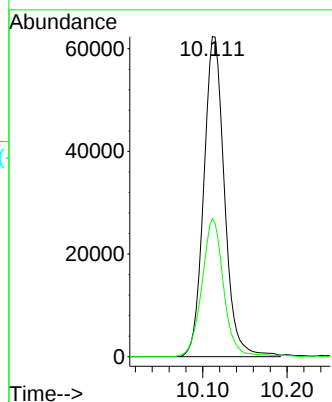
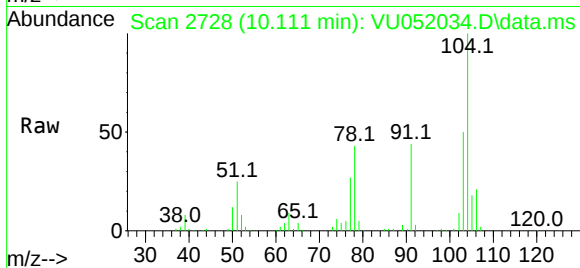
A0B26DL

Tgt Ion:104 Resp: 106685

Ion Ratio Lower Upper

104 100

78 43.2 31.2 58.0



#61

Isopropylbenzene

Concen: 12.218 ug/L

RT: 10.481 min Scan# 2843

Delta R.T. 0.000 min

Lab File: VU052034.D

Acq: 22 Nov 2022 10:27

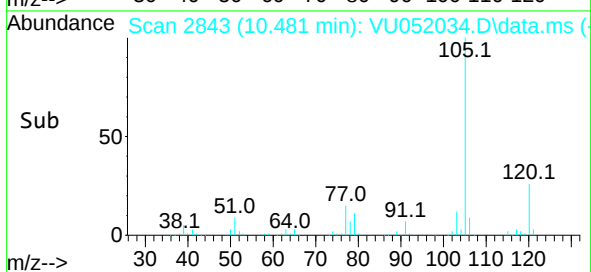
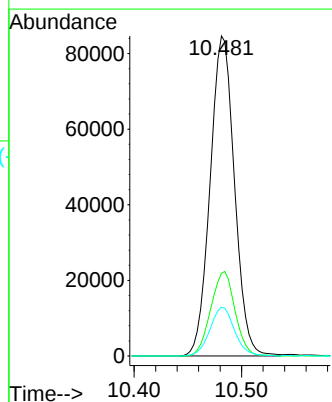
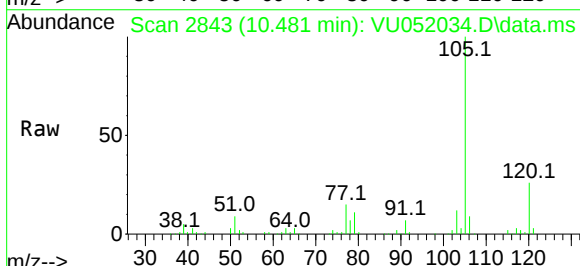
Tgt Ion:105 Resp: 133238

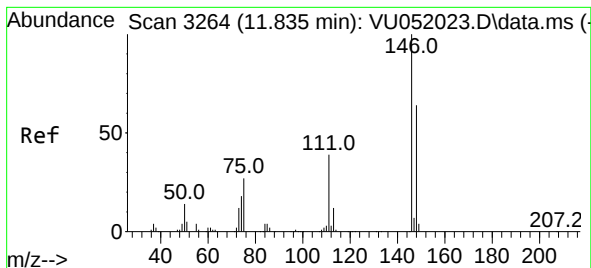
Ion Ratio Lower Upper

105 100

120 26.3 21.1 31.7

77 15.4 12.4 18.6





#65

1,4-Dichlorobenzene

Concen: 4.661 ug/L

RT: 11.835 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU052034.D

Acq: 22 Nov 2022 10:27

Instrument :

MSVOA_U

ClientSampleId :

A0B26DL

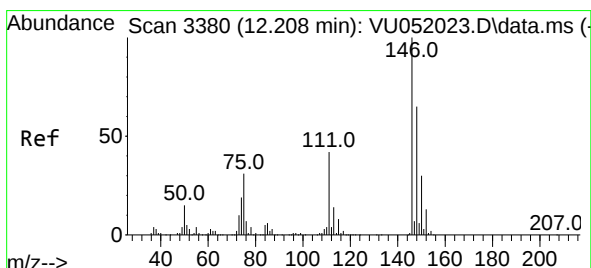
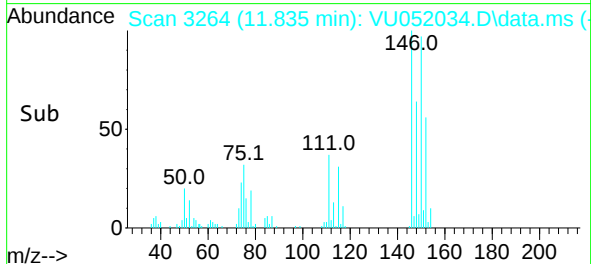
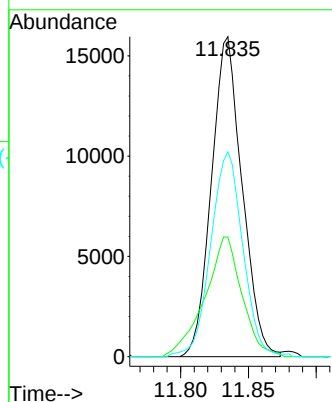
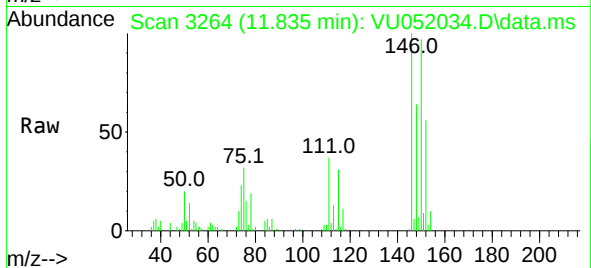
Tgt Ion:146 Resp: 25106

Ion Ratio Lower Upper

146 100

111 37.4 27.6 51.2

148 64.0 44.8 83.2



#67

1,2-Dichlorobenzene

Concen: 5.011 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. 0.000 min

Lab File: VU052034.D

Acq: 22 Nov 2022 10:27

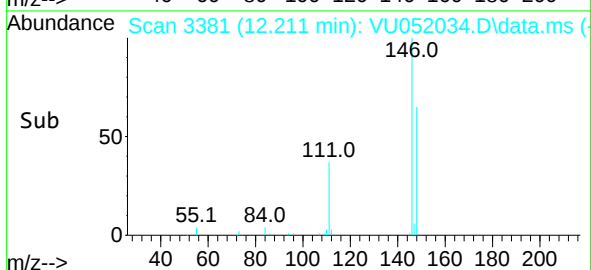
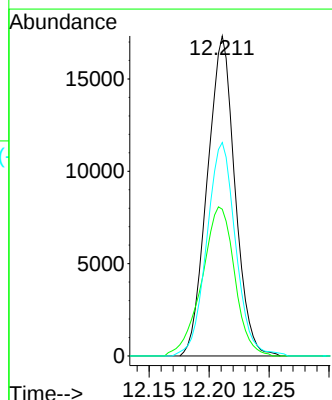
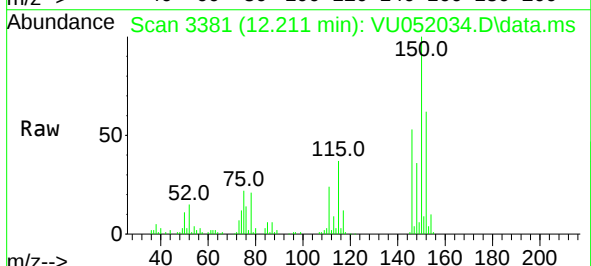
Tgt Ion:146 Resp: 27754

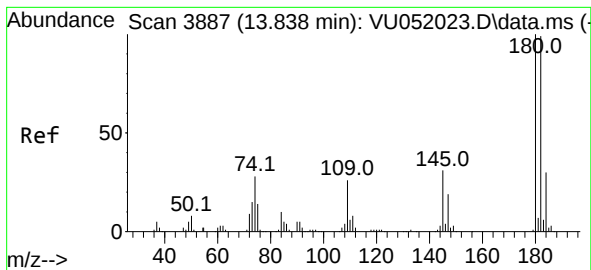
Ion Ratio Lower Upper

146 100

111 45.8 34.2 51.4

148 66.7 52.6 79.0





#70

1,2,4-trichlorobenzene

Concen: 4.025 ug/L

RT: 13.841 min Scan# 3888

Delta R.T. 0.007 min

Lab File: VU052034.D

Acq: 22 Nov 2022 10:27

Instrument :

MSVOA_U

ClientSampleId :

A0B26DL

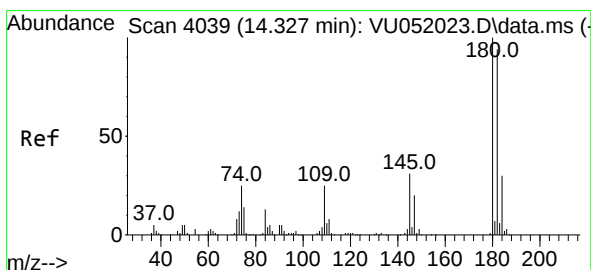
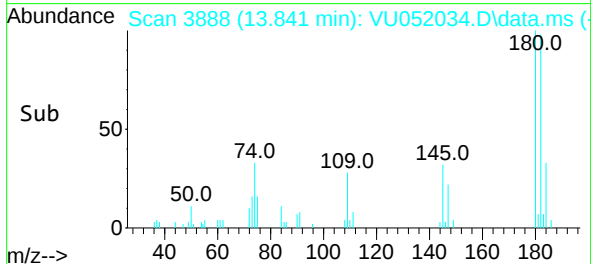
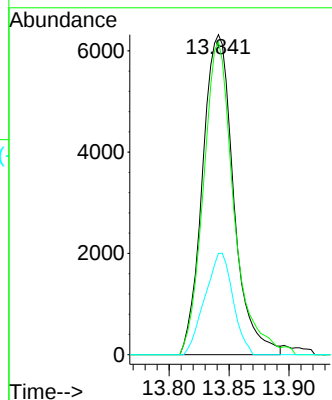
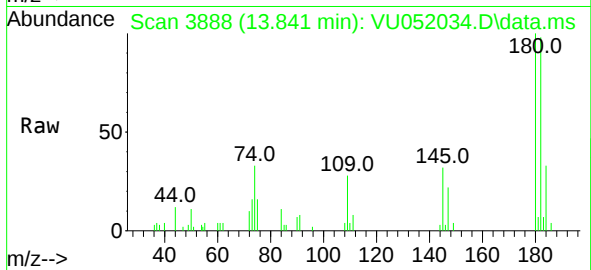
Tgt Ion:180 Resp: 11410

Ion Ratio Lower Upper

180 100

182 94.7 75.4 113.2

145 28.5 23.4 35.0



#72

1,2,3-Trichlorobenzene

Concen: 12.248 ug/L

RT: 14.327 min Scan# 4039

Delta R.T. 0.000 min

Lab File: VU052034.D

Acq: 22 Nov 2022 10:27

Tgt Ion:180 Resp: 37616

Ion Ratio Lower Upper

180 100

182 95.6 76.1 114.1

145 32.1 25.8 38.6

