

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
 Data File : VU046261.D
 Acq On : 10 Dec 2021 13:18
 Operator : SY/MD
 Sample : M4943-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 22:24:01 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	205101	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	220840	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.816	152	143548	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	76770	45.439	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.880%
7) Chloroethane-d5	1.916	69	60188	46.398	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.800%
11) 1,1-Dichloroethene-d2	2.568	63	117966	38.894	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.780%
21) 2-Butanone-d5	4.674	46	34535	25.713	ug/L	0.03
Spiked Amount	100.000	Range	40 - 130	Recovery	=	25.710%#
24) Chloroform-d	5.070	84	141689	50.219	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.440%
26) 1,2-Dichloroethane-d4	5.706	65	104789	55.342	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.680%
32) Benzene-d6	5.732	84	322846	51.005	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.020%
36) 1,2-Dichloropropane-d6	6.697	67	102181	52.089	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.180%
41) Toluene-d8	7.899	98	299187	51.914	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.820%
43) trans-1,3-Dichloroprop...	8.182	79	52793	55.750	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	111.500%
47) 2-Hexanone-d5	8.642	63	120664	129.732	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	129.730%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	182640	61.393	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	122.780%#
66) 1,2-Dichlorobenzene-d4	12.198	152	141091	51.037	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.080%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	1006	0.674	ug/L #	21
12) 1,1-Dichloroethene	2.565	96	876	0.618	ug/L #	1
13) Acetone	2.697	43	11514	6.859	ug/L	99
15) Methyl Acetate	2.697	43	8332	4.258	ug/L #	49
20) cis-1,2-Dichloroethene	4.674	96	9399	5.772	ug/L	98
25) Chloroform	5.096	83	20963	6.914	ug/L	97
27) 1,2-Dichloroethane	5.793	62	1306	0.580	ug/L #	73
29) Cyclohexane	5.372	56	5253	2.043	ug/L #	36
33) Benzene	5.780	78	96776	14.479	ug/L	100
35) Methylcyclohexane	6.764	83	14391	5.271	ug/L	90
39) cis-1,3-Dichloropropene	7.565	75	3301	1.239	ug/L #	63
40) 4-Methyl-2-pentanone	7.800	43	3451	1.341	ug/L	98
42) Toluene	7.973	91	1420982	198.127	ug/L	99
44) trans-1,3-Dichloropropene	8.182	75	2321	0.887	ug/L #	58
48) 2-Hexanone	8.639	43	59189	25.727	ug/L #	34
51) Chlorobenzene	9.449	112	38915	8.387	ug/L	97
52) Ethylbenzene	9.574	91	3682134	477.040	ug/L	99
53) m,p-Xylene	9.700	106	4032671	1339.674	ug/L	100
54) o-xylene	10.105	106	1393111	476.950	ug/L	99

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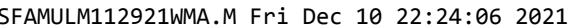
Instrument :
 MSVOA_U
 ClientSampleId :

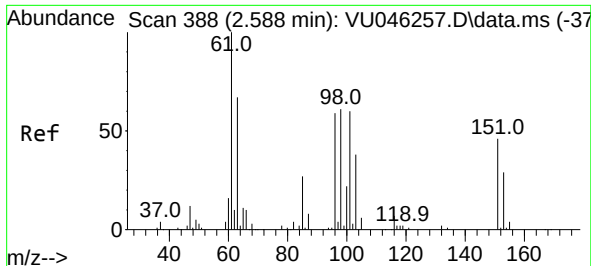
Quant Time: Dec 10 22:24:01 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.108	104	114879	23.037	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.764	83	23444	7.785	ug/L #	53
61) Isopropylbenzene	10.488	105	608132	65.112	ug/L	100
62) 1,3,5-Trimethylbenzene	11.092	105	1769156	227.256	ug/L	100
63) 1,2,4-Trimethylbenzene	11.475	105	5907100	758.424	ug/L	100
67) 1,2-Dichlorobenzene	12.217	146	62078	13.895	ug/L #	80
68) 1,2-Dibromo-3-chloropr...	12.976	75	5741	6.849	ug/L #	9
70) 1,2,4-trichlorobenzene	13.844	180	34408	11.995	ug/L #	72
71) Naphthalene	14.095	128	9881875	989.945	ug/L	99
72) 1,2,3-Trichlorobenzene	14.333	180	9434	3.225	ug/L #	1

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

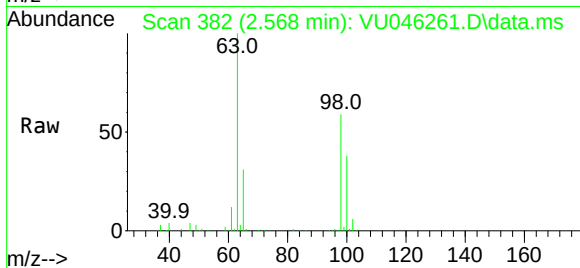
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 03 05:08:36 2021
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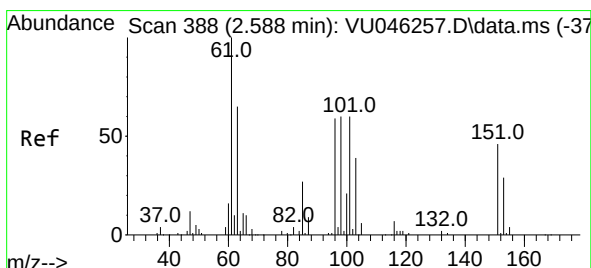
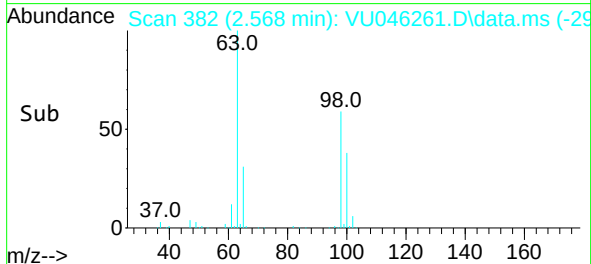
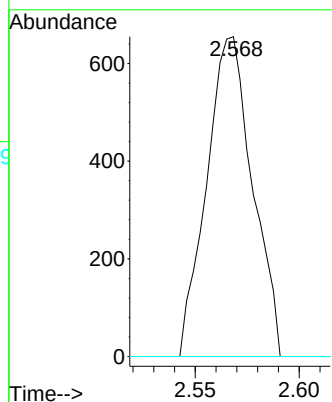


#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.674 ug/L
 RT: 2.568 min Scan# 382
 Delta R.T. -0.019 min
 Lab File: VU046261.D
 Acq: 10 Dec 2021 13:18

Instrument :
 MSVOA_U
 ClientSampleId :

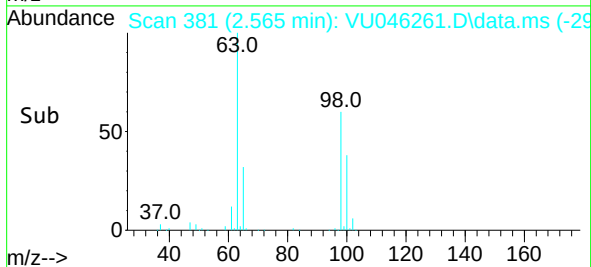
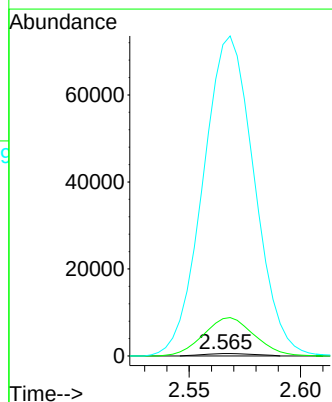
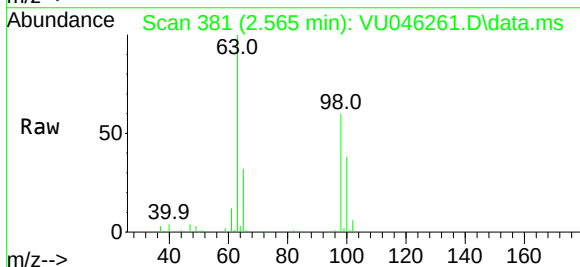


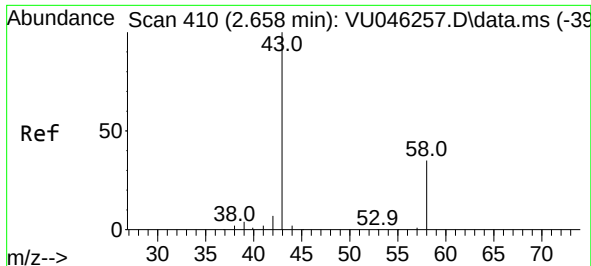
Tgt Ion:101 Resp: 1006
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.1 52.7#
 151 0.0 56.7 85.1#



#12
 1,1-Dichloroethene
 Concen: 0.618 ug/L
 RT: 2.565 min Scan# 381
 Delta R.T. -0.019 min
 Lab File: VU046261.D
 Acq: 10 Dec 2021 13:18

Tgt Ion: 96 Resp: 876
 Ion Ratio Lower Upper
 96 100
 61 1538.4 118.6 220.2#
 63 12830.1 93.0 172.8#





#13

Acetone

Concen: 6.859 ug/L

RT: 2.697 min Scan# 410

Delta R.T. 0.035 min

Lab File: VU046261.D

Acq: 10 Dec 2021 13:18

Instrument :

MSVOA_U

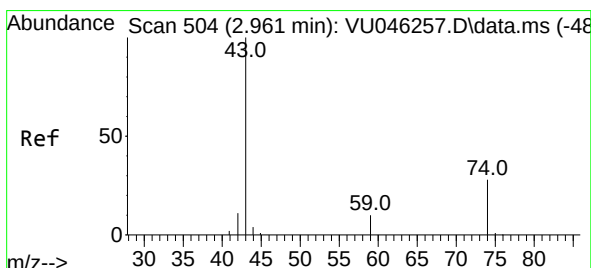
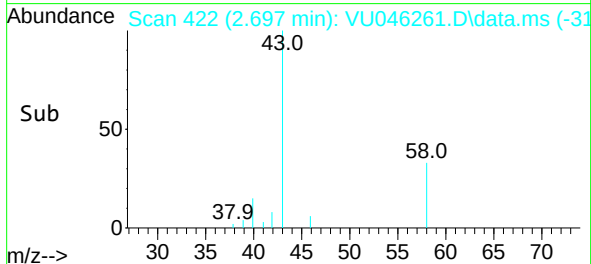
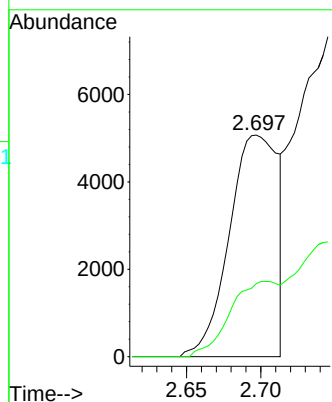
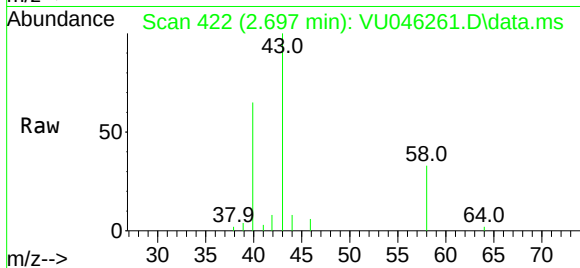
ClientSampleId :

Tgt Ion: 43 Resp: 11514

Ion Ratio Lower Upper

43 100

58 34.2 0.0 66.8



#15

Methyl Acetate

Concen: 4.258 ug/L

RT: 2.697 min Scan# 422

Delta R.T. -0.264 min

Lab File: VU046261.D

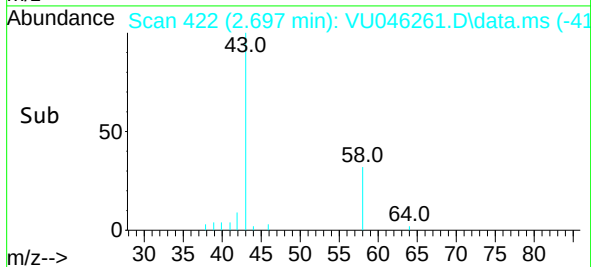
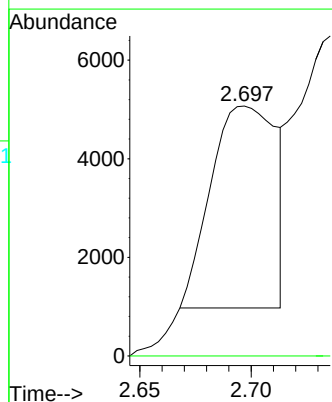
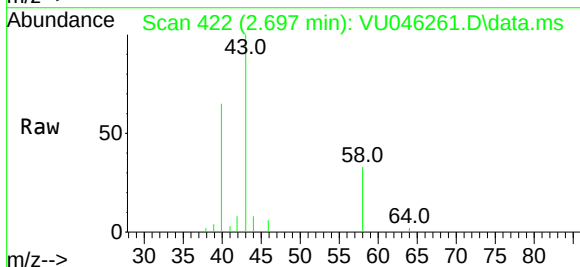
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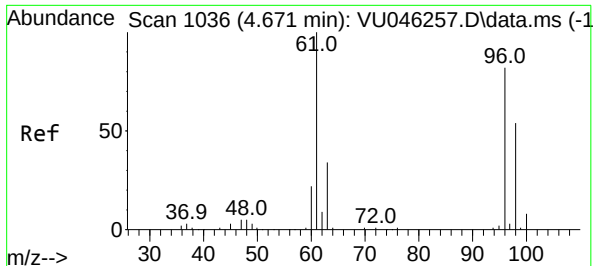
Tgt Ion: 43 Resp: 8332

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#





#20

cis-1,2-Dichloroethene

Concen: 5.772 ug/L

RT: 4.674 min Scan# 110

Delta R.T. 0.003 min

Lab File: VU046261.D

Acq: 10 Dec 2021 13:18

Instrument :

MSVOA_U

ClientSampleId :

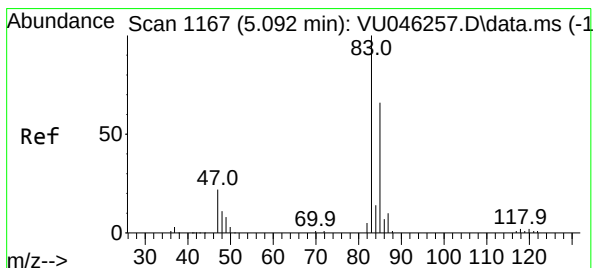
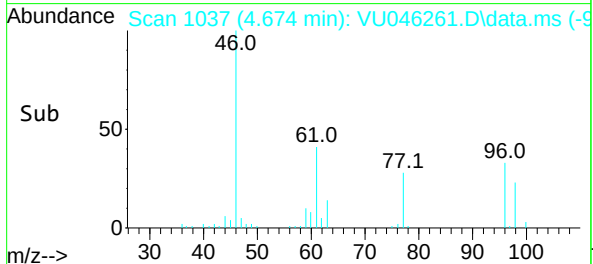
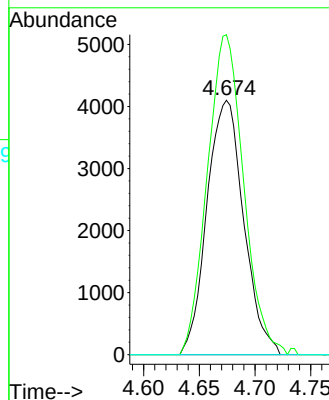
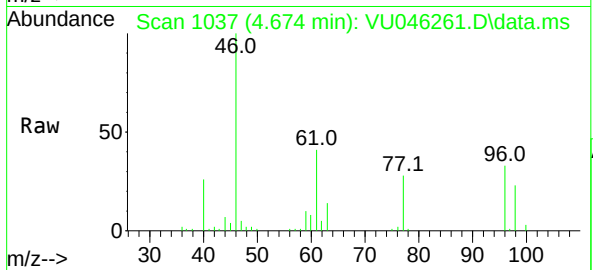
Tgt Ion: 96 Resp: 9399

Ion Ratio Lower Upper

96 100

61 125.8 86.8 161.2

68 0.0 0.0 0.0



#25

Chloroform

Concen: 6.914 ug/L

RT: 5.096 min Scan# 1168

Delta R.T. 0.003 min

Lab File: VU046261.D

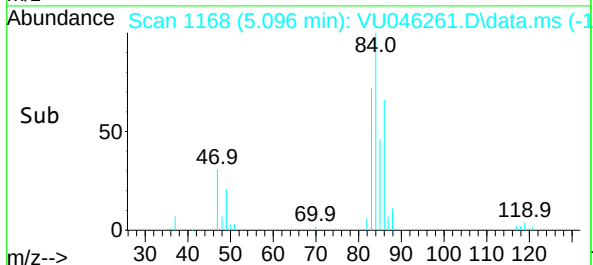
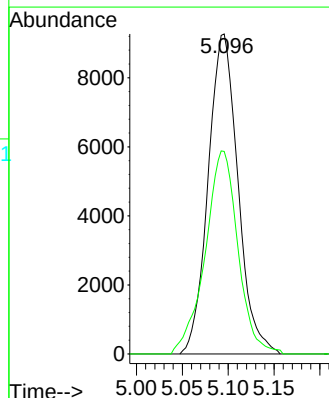
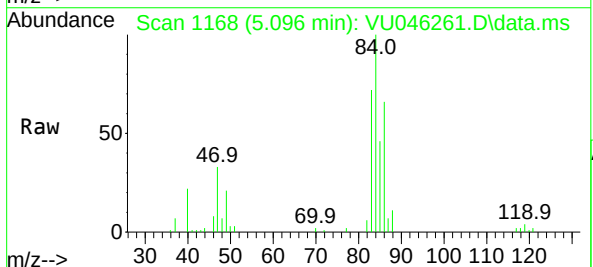
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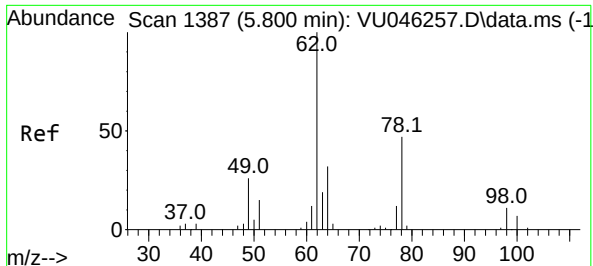
Tgt Ion: 83 Resp: 20963

Ion Ratio Lower Upper

83 100

85 63.3 45.8 85.2

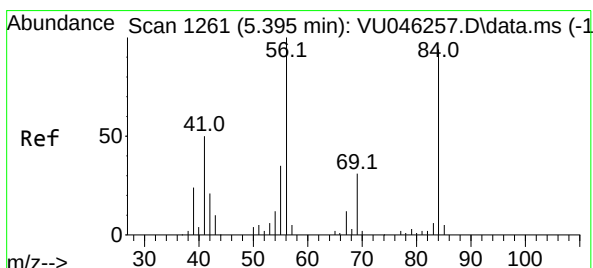
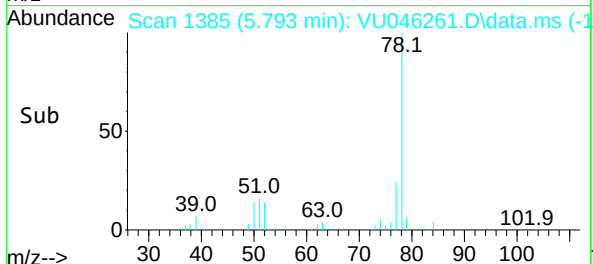
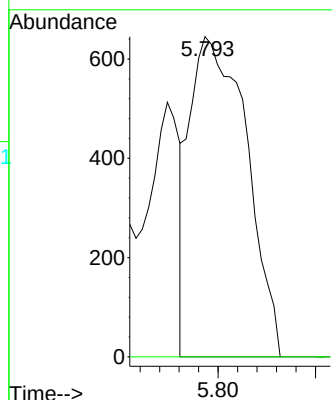
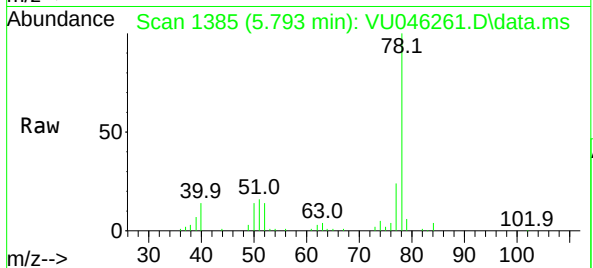




#27
1,2-Dichloroethane
Concen: 0.580 ug/L
RT: 5.793 min Scan# 11
Delta R.T. -0.006 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

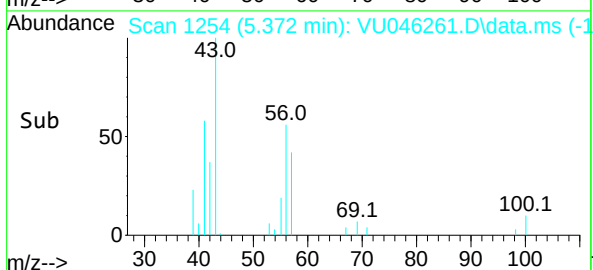
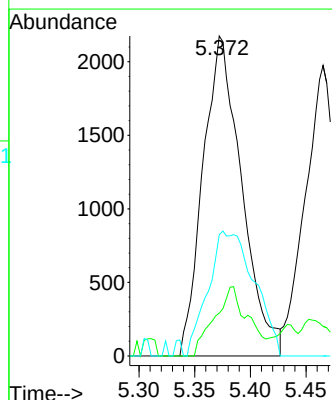
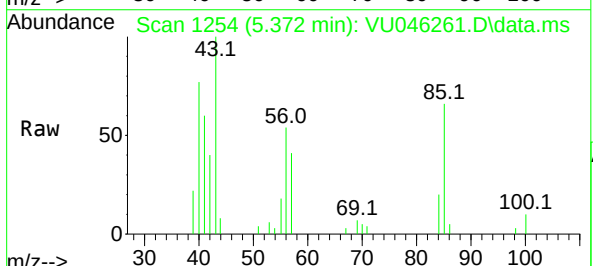
Instrument :
MSVOA_U
ClientSampleId :

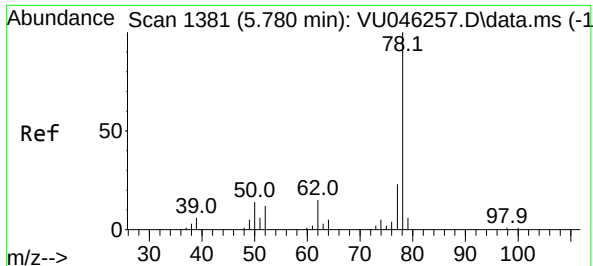
Tgt Ion: 62 Resp: 1306
Ion Ratio Lower Upper
62 100
98 0.0 7.9 11.9#



#29
Cyclohexane
Concen: 2.043 ug/L
RT: 5.372 min Scan# 1254
Delta R.T. -0.023 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

Tgt Ion: 56 Resp: 5253
Ion Ratio Lower Upper
56 100
69 14.6 25.2 37.8#
84 19.8 73.3 109.9#

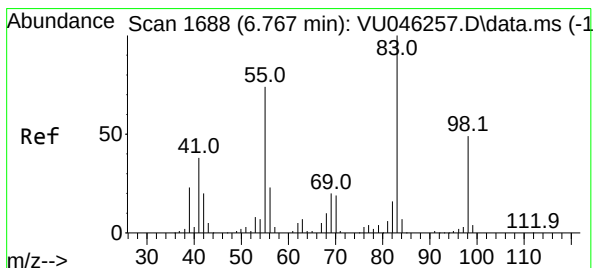
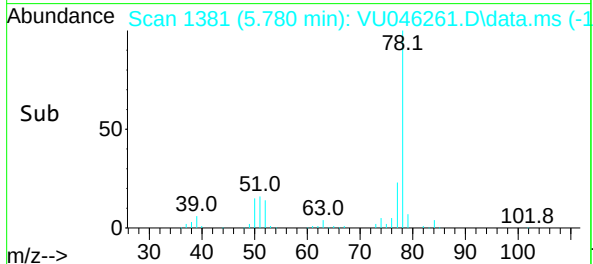
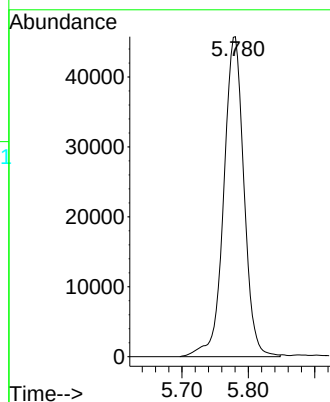
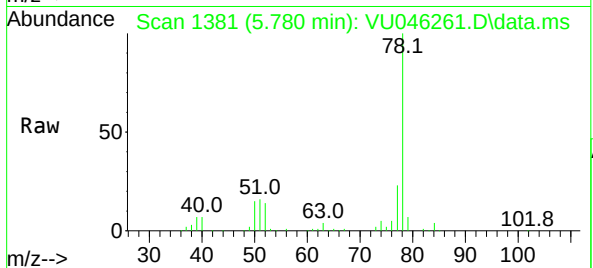




#33
Benzene
Concen: 14.479 ug/L
RT: 5.780 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

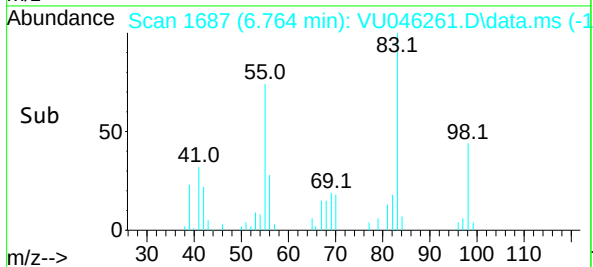
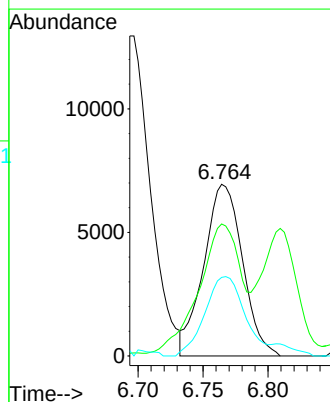
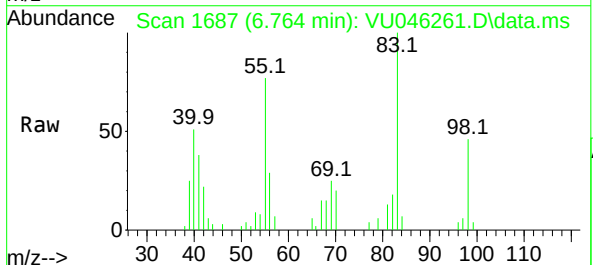
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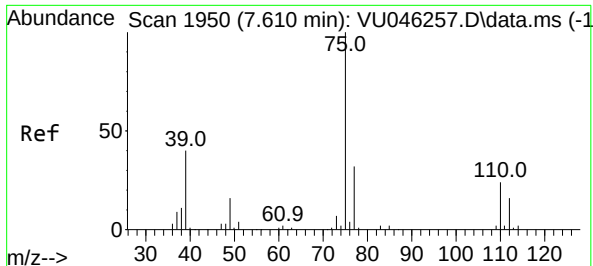
Tgt Ion: 78 Resp: 96776



#35
Methylcyclohexane
Concen: 5.271 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. -0.003 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

Tgt Ion: 83 Resp: 14391
Ion Ratio Lower Upper
83 100
55 85.0 57.8 86.6
98 47.3 38.4 57.6





#39

cis-1,3-Dichloropropene

Concen: 1.239 ug/L

RT: 7.565 min Scan# 1950

Delta R.T. -0.045 min

Lab File: VU046261.D

Acq: 10 Dec 2021 13:18

Instrument :

MSVOA_U

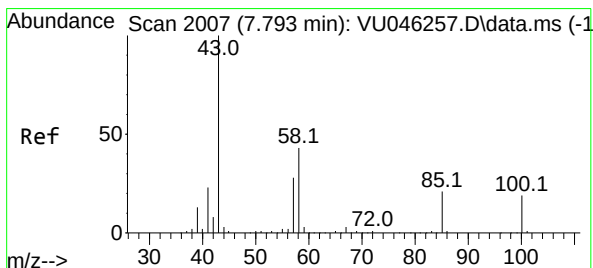
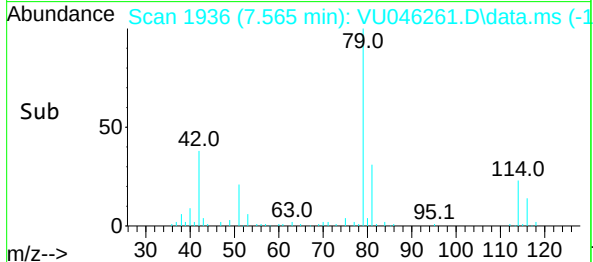
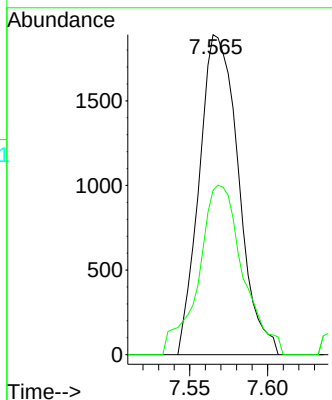
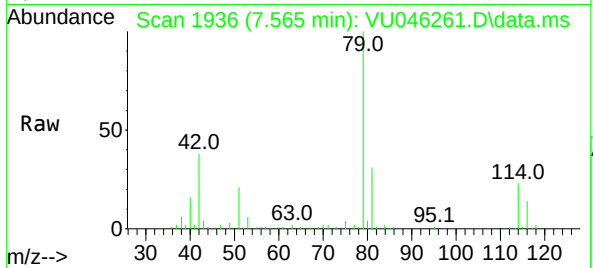
ClientSampleId :

Tgt Ion: 75 Resp: 3301

Ion Ratio Lower Upper

75 100

77 51.3 21.8 40.6#



#40

4-Methyl-2-pentanone

Concen: 1.341 ug/L

RT: 7.800 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VU046261.D

Acq: 10 Dec 2021 13:18

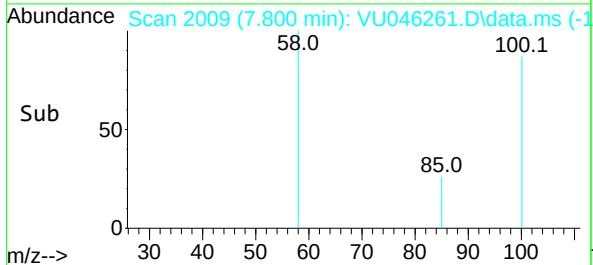
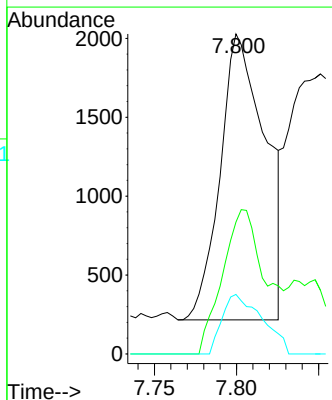
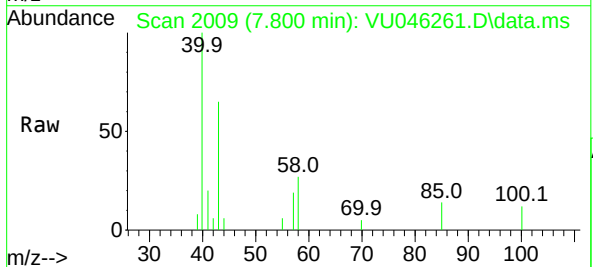
Tgt Ion: 43 Resp: 3451

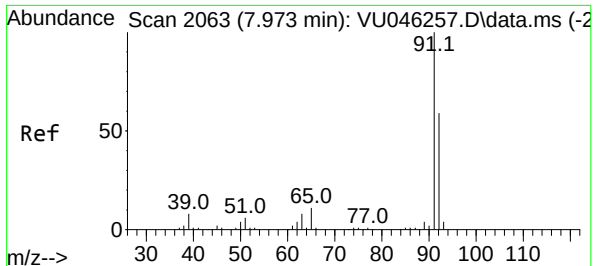
Ion Ratio Lower Upper

43 100

58 41.6 34.2 51.4

100 18.5 14.5 21.7

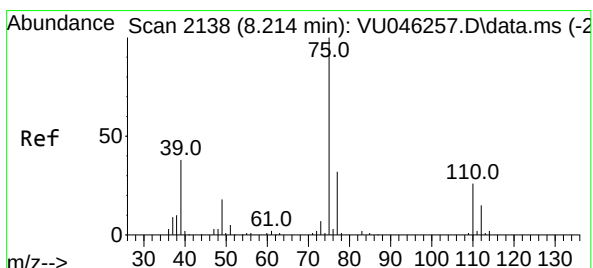
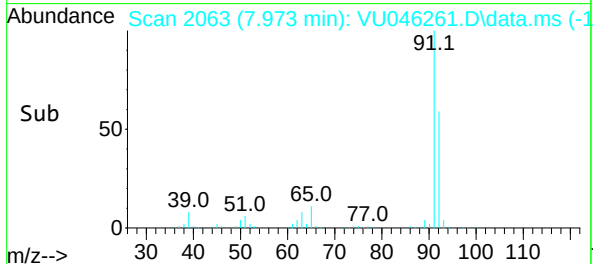
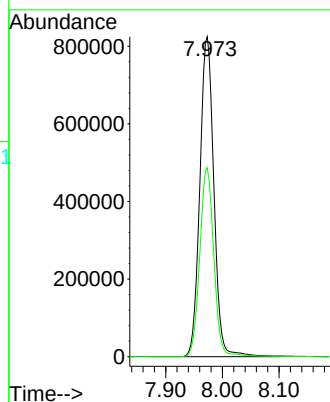
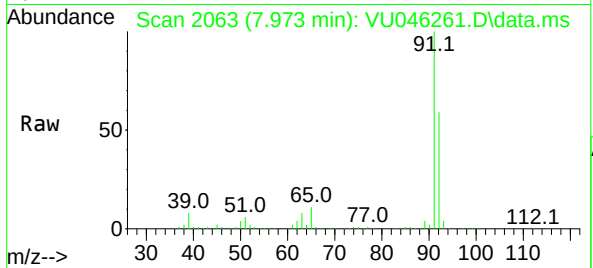




#42
Toluene
Concen: 198.127 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

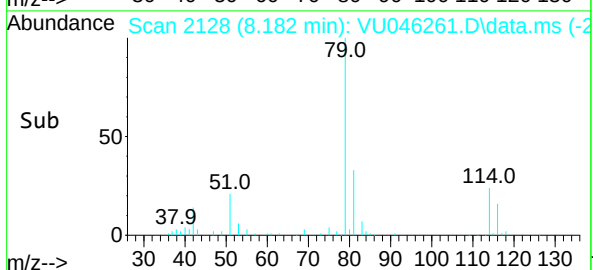
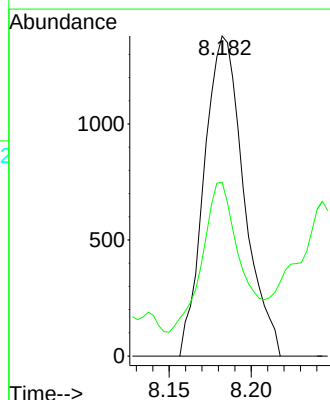
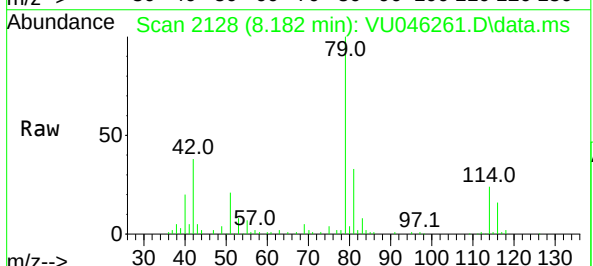
Instrument :
MSVOA_U
ClientSampleId :

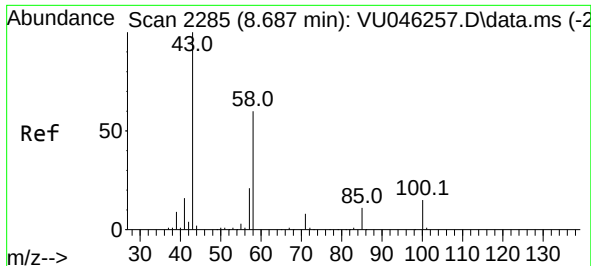
Tgt Ion: 91 Resp: 1420982
Ion Ratio Lower Upper
91 100
92 59.0 41.9 77.7



#44
trans-1,3-Dichloropropene
Concen: 0.887 ug/L
RT: 8.182 min Scan# 2128
Delta R.T. -0.032 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

Tgt Ion: 75 Resp: 2321
Ion Ratio Lower Upper
75 100
77 54.2 21.7 40.3#

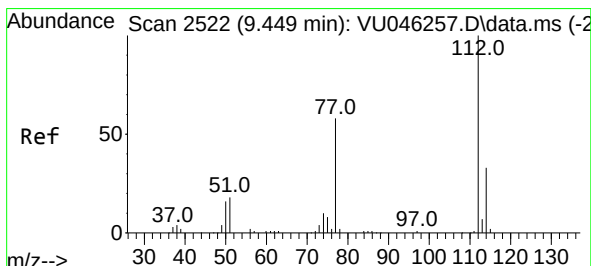
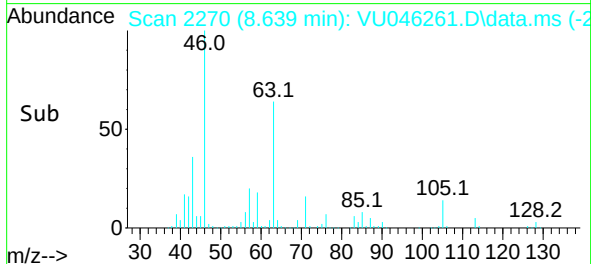
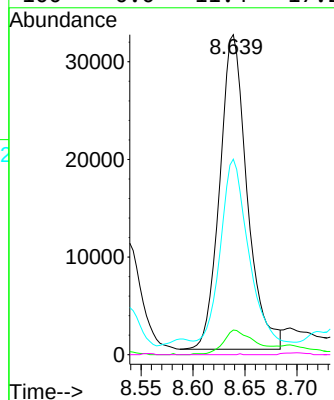
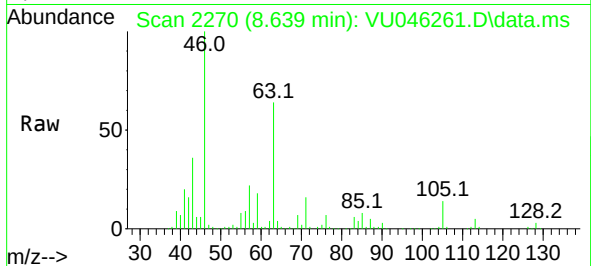




#48
2-Hexanone
Concen: 25.727 ug/L
RT: 8.639 min Scan# 21
Delta R.T. -0.048 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

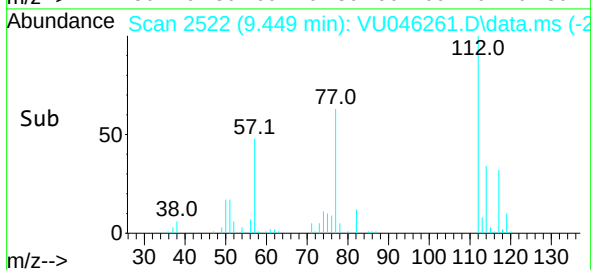
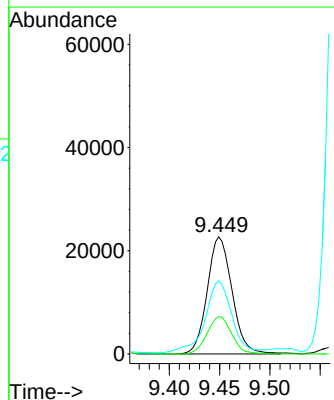
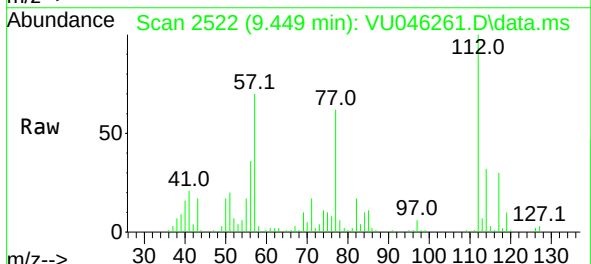
Instrument :
MSVOA_U
ClientSampleId :

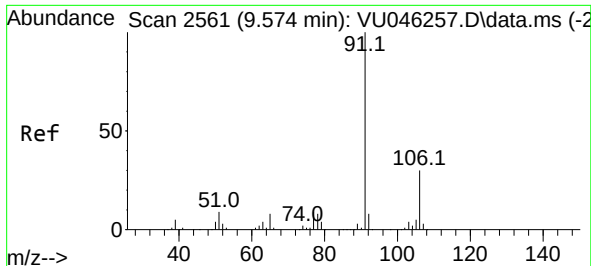
Tgt Ion: 43	Resp: 59189
Ion Ratio	Lower Upper
43	100
58	8.1 47.4 71.2#
57	57.8 16.6 25.0#
100	0.0 11.4 17.2#



#51
Chlorobenzene
Concen: 8.387 ug/L
RT: 9.449 min Scan# 2522
Delta R.T. -0.000 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

Tgt Ion: 112	Resp: 38915
Ion Ratio	Lower Upper
112	100
114	31.9 22.2 41.2
77	62.3 47.4 71.0





#52

Ethylbenzene

Concen: 477.040 ug/L

RT: 9.574 min Scan# 2

Delta R.T. 0.000 min

Lab File: VU046261.D

Acq: 10 Dec 2021 13:18

Instrument :

MSVOA_U

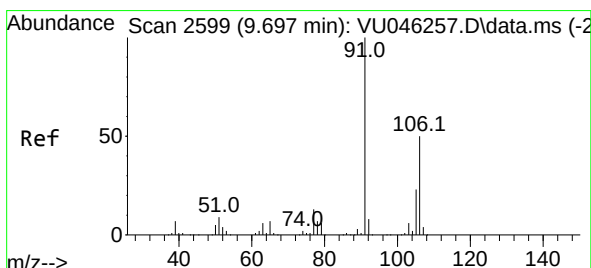
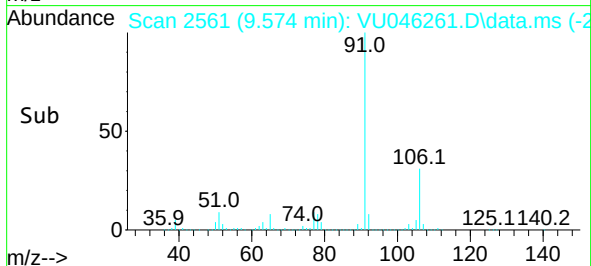
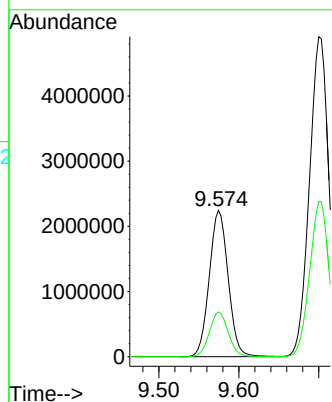
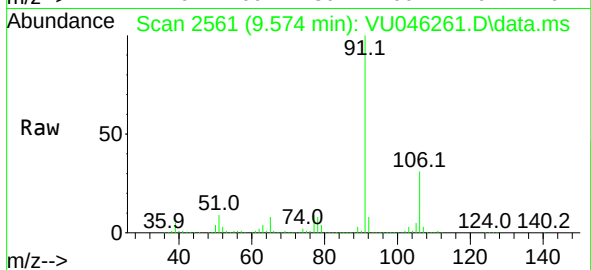
ClientSampleId :

Tgt Ion: 91 Resp: 3682134

Ion Ratio Lower Upper

91 100

106 30.6 21.1 39.3



#53

m,p-Xylene

Concen: 1339.674 ug/L

RT: 9.700 min Scan# 2600

Delta R.T. 0.003 min

Lab File: VU046261.D

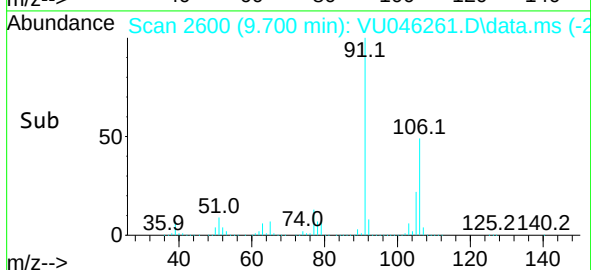
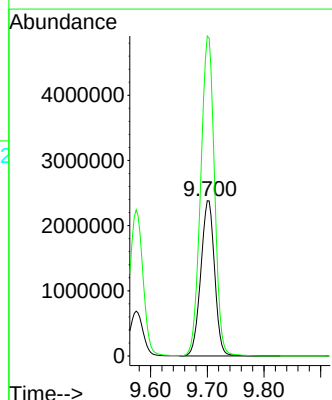
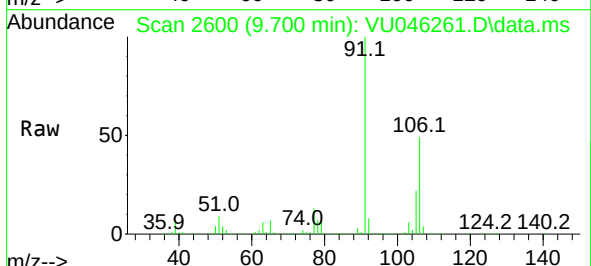
Acq: 10 Dec 2021 13:18

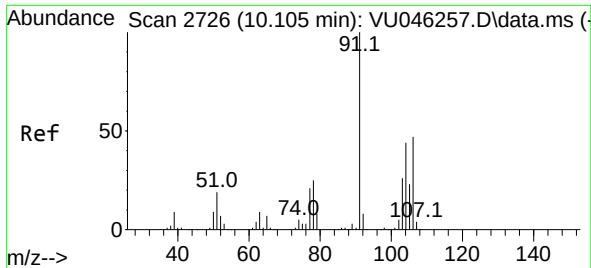
Tgt Ion:106 Resp: 4032671

Ion Ratio Lower Upper

106 100

91 206.1 144.3 268.1

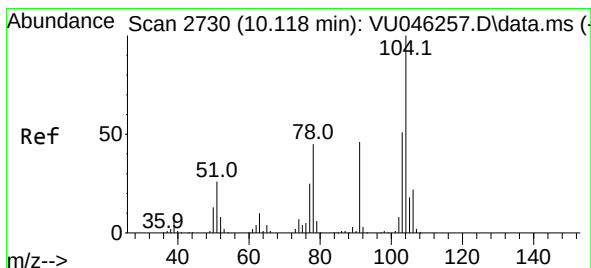
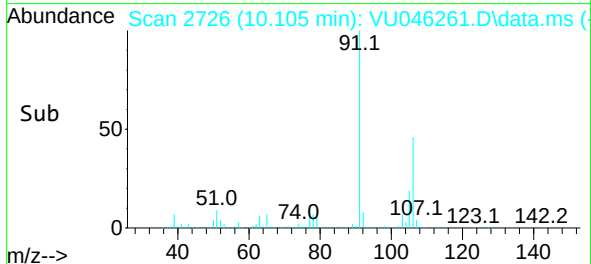
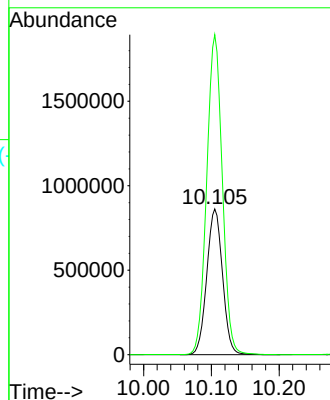
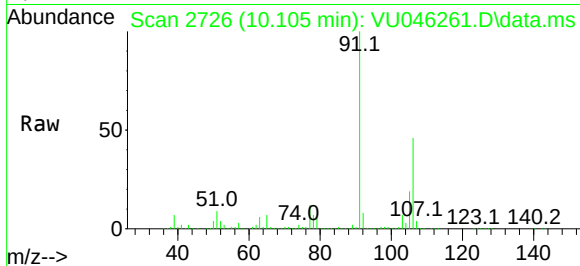




#54
o-xylene
Concen: 476.950 ug/L
RT: 10.105 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

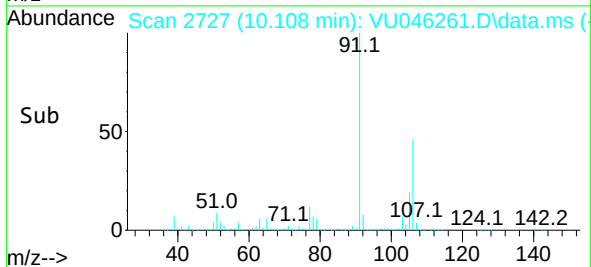
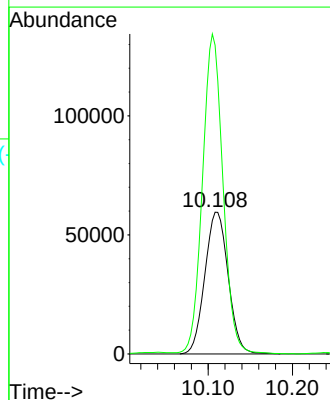
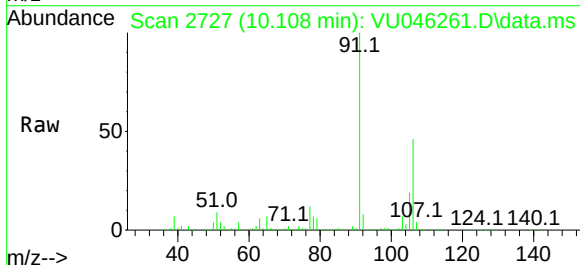
Instrument :
MSVOA_U
ClientSampleId :

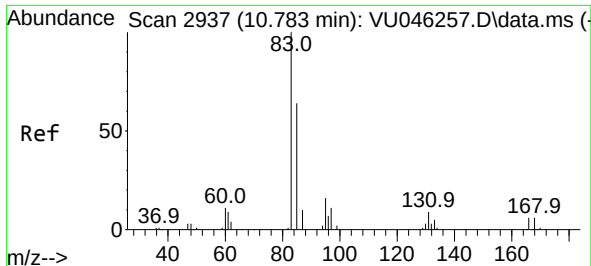
Tgt Ion:106 Resp: 1393111
Ion Ratio Lower Upper
106 100
91 219.5 154.2 286.4



#55
Styrene
Concen: 23.037 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. -0.010 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

Tgt Ion:104 Resp: 114879
Ion Ratio Lower Upper
104 100
78 217.9 32.6 60.5#





#57

1,1,2,2-Tetrachloroethane

Concen: 7.785 ug/L

RT: 10.764 min Scan# 2931

Delta R.T. -0.023 min

Lab File: VU046261.D

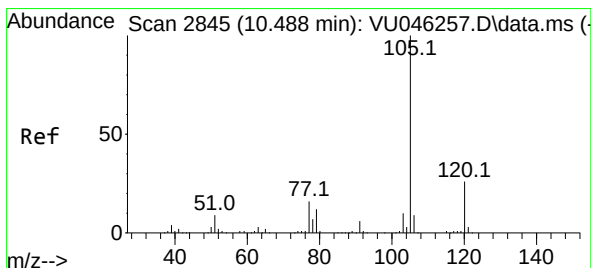
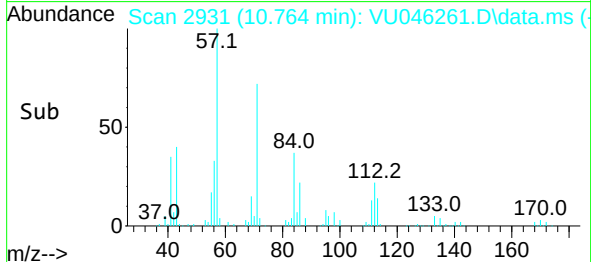
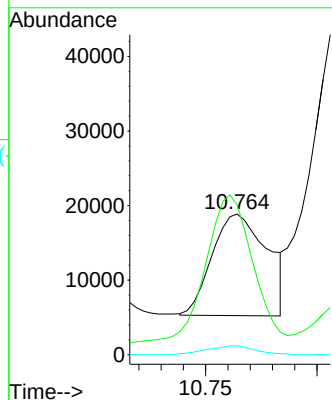
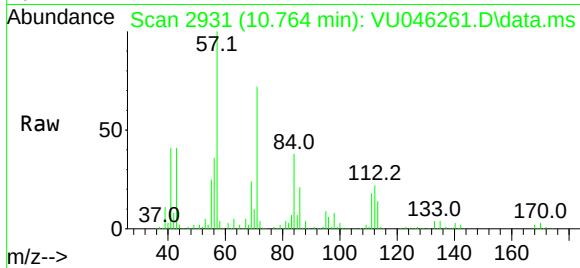
Acq: 10 Dec 2021 13:18

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp: 23444
Ion Ratio	Lower Upper
83	100
85	106.4 45.6 84.6#
131	6.3 7.8 11.6#



#61

Isopropylbenzene

Concen: 65.112 ug/L

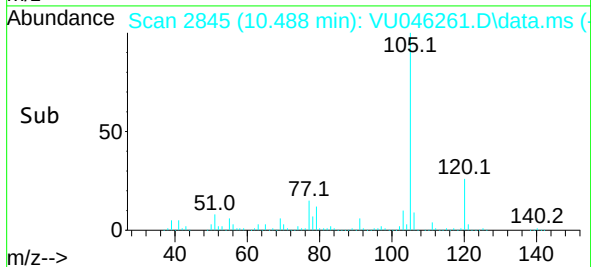
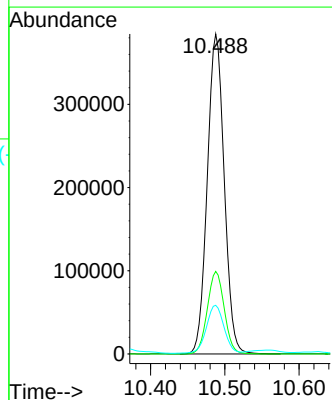
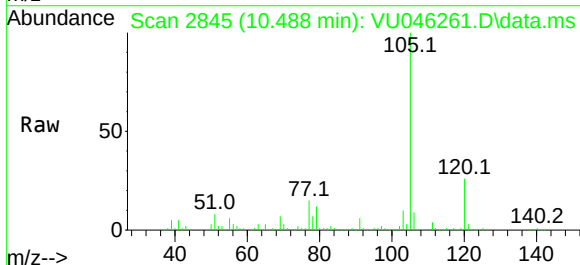
RT: 10.488 min Scan# 2845

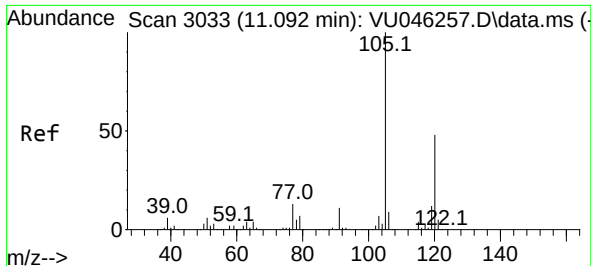
Delta R.T. -0.000 min

Lab File: VU046261.D

Acq: 10 Dec 2021 13:18

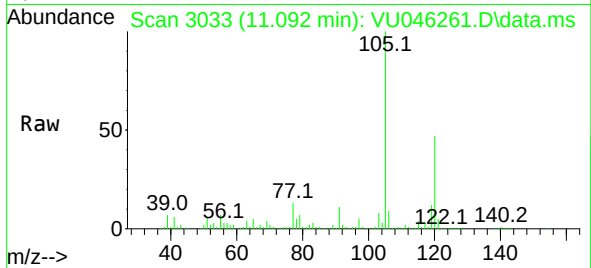
Tgt Ion: 105	Resp: 608132
Ion Ratio	Lower Upper
105	100
120	25.7 20.7 31.1
77	15.4 12.2 18.4



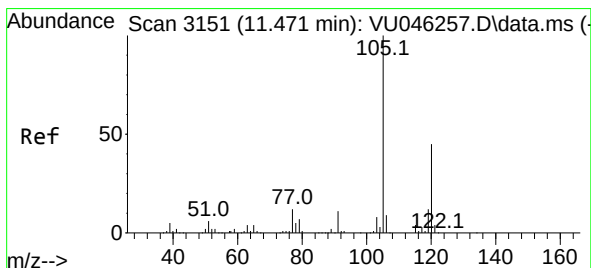
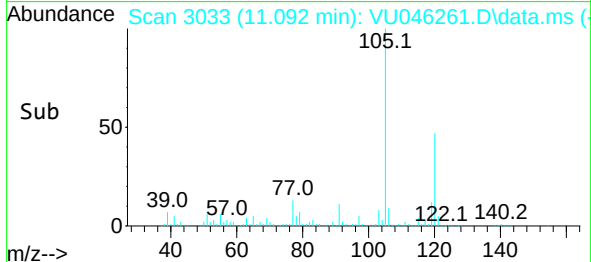
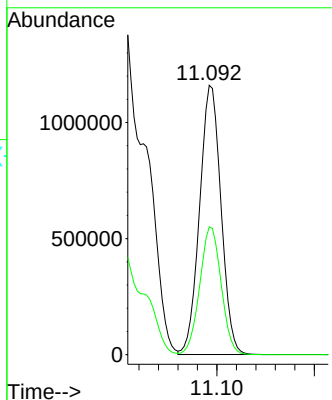


#62
1,3,5-Trimethylbenzene
Concen: 227.256 ug/L
RT: 11.092 min Scan# 3033
Delta R.T. -0.000 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

Instrument :
MSVOA_U
ClientSampleId :

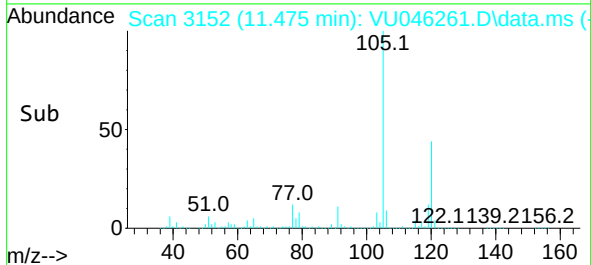
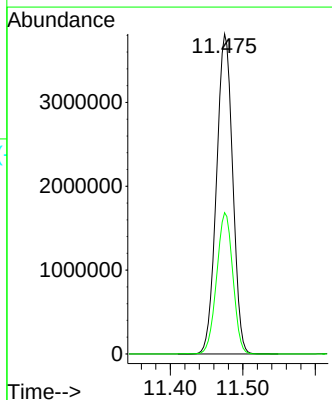
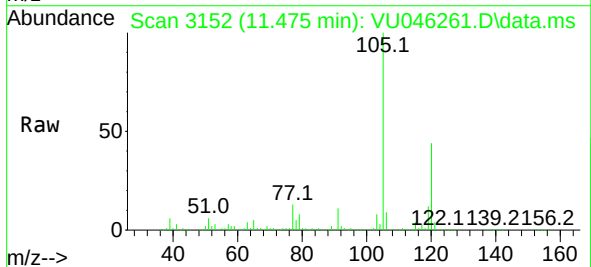


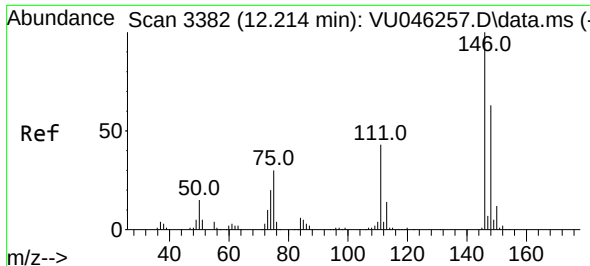
Tgt Ion:105 Resp: 1769156
Ion Ratio Lower Upper
105 100
120 47.5 37.8 56.6



#63
1,2,4-Trimethylbenzene
Concen: 758.424 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

Tgt Ion:105 Resp: 5907100
Ion Ratio Lower Upper
105 100
120 44.2 35.2 52.8





#67

1,2-Dichlorobenzene

Concen: 13.895 ug/L

RT: 12.217 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU046261.D

Acq: 10 Dec 2021 13:18

Instrument :

MSVOA_U

ClientSampleId :

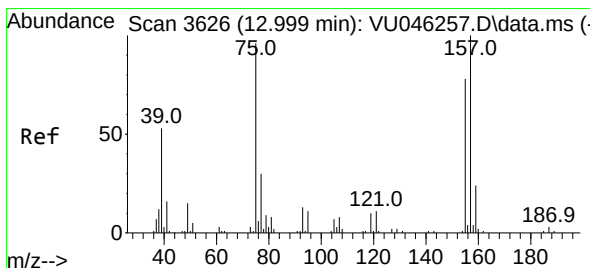
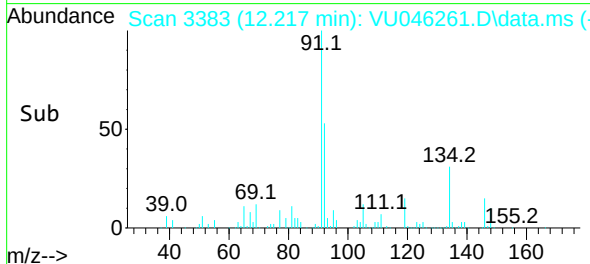
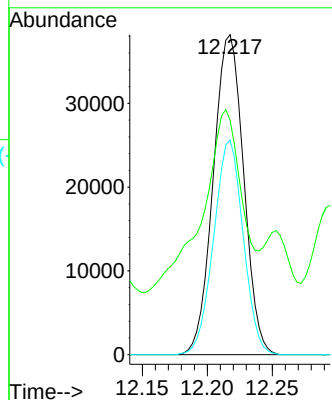
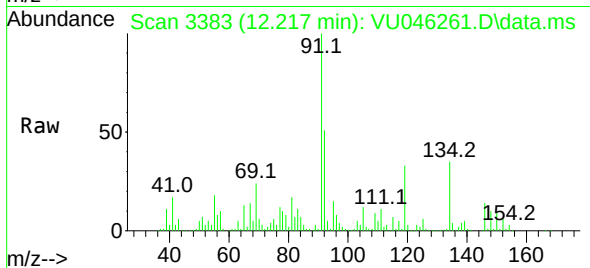
Tgt Ion:146 Resp: 62078

Ion Ratio Lower Upper

146 100

111 73.3 35.7 53.5#

148 67.0 51.2 76.8



#68

1,2-Dibromo-3-chloropropane

Concen: 6.849 ug/L

RT: 12.976 min Scan# 3619

Delta R.T. -0.023 min

Lab File: VU046261.D

Acq: 10 Dec 2021 13:18

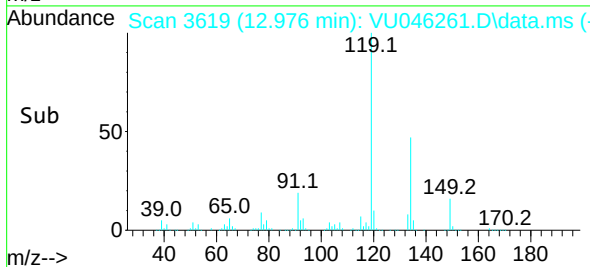
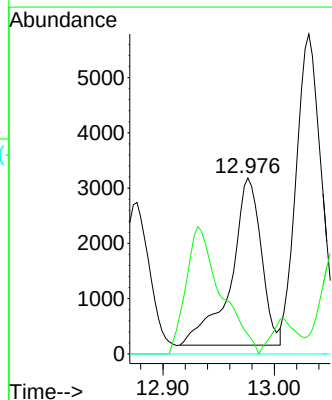
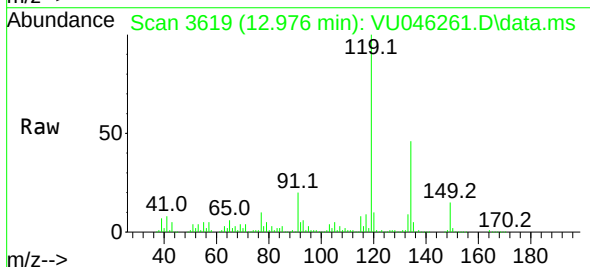
Tgt Ion: 75 Resp: 5741

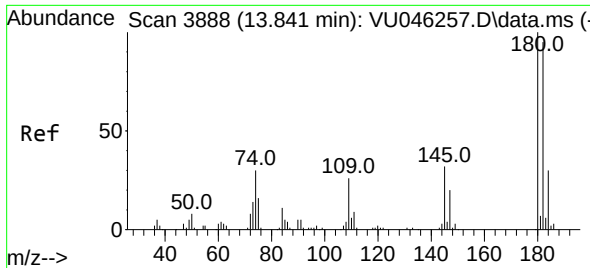
Ion Ratio Lower Upper

75 100

155 11.1 64.9 97.3#

157 0.0 81.9 122.9#

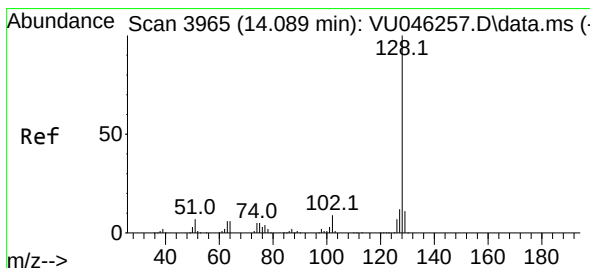
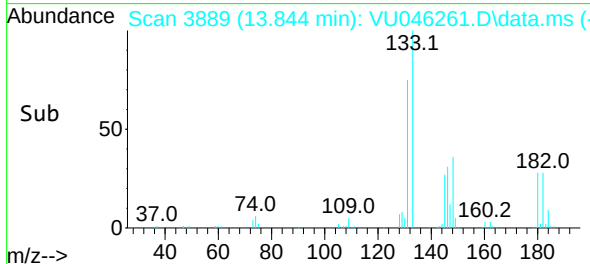
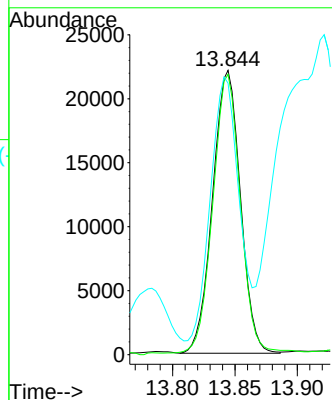
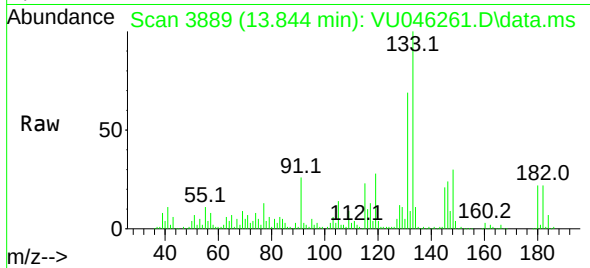




#70
1,2,4-trichlorobenzene
Concen: 11.995 ug/L
RT: 13.844 min Scan# 3888
Delta R.T. 0.003 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

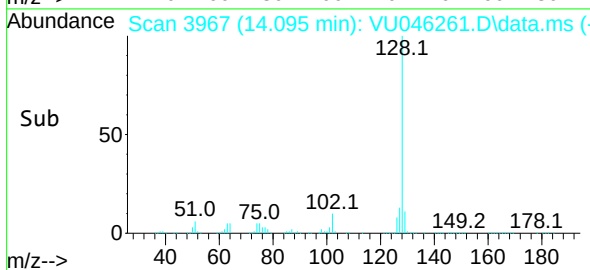
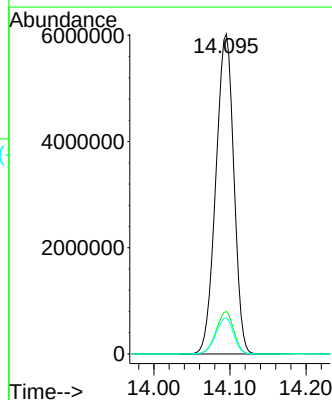
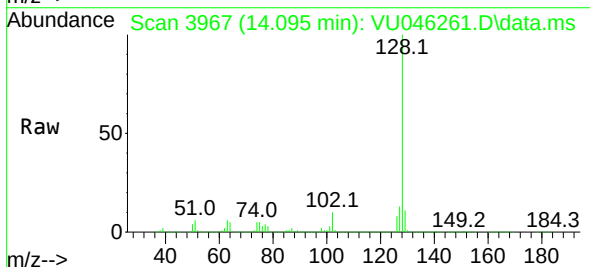
Instrument :
MSVOA_U
ClientSampleId :

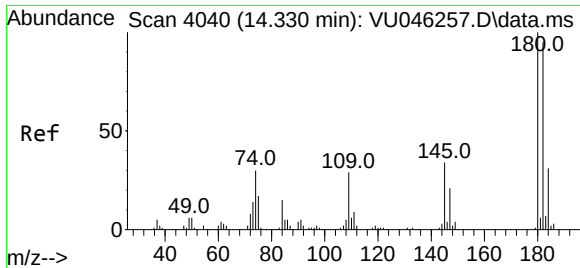
Tgt Ion:180 Resp: 34408
Ion Ratio Lower Upper
180 100
182 96.6 76.7 115.1
145 94.2 26.0 39.0#



#71
Naphthalene
Concen: 989.945 ug/L
RT: 14.095 min Scan# 3967
Delta R.T. 0.006 min
Lab File: VU046261.D
Acq: 10 Dec 2021 13:18

Tgt Ion:128 Resp: 9881875
Ion Ratio Lower Upper
128 100
127 13.0 10.1 15.1
129 11.2 8.6 13.0





#72

1,2,3-Trichlorobenzene

Concen: 3.225 ug/L

RT: 14.333 min Scan# 40

Delta R.T. 0.003 min

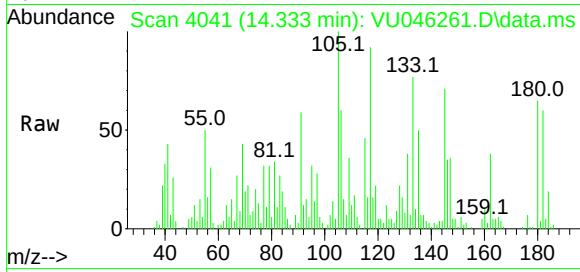
Lab File: VU046261.D

Acq: 10 Dec 2021 13:18

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 9434

Ion Ratio Lower Upper

180 100

182 95.2 76.0 114.0

145 269.0 27.3 40.9#

