

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032822\
 Data File : VU047732.D
 Acq On : 28 Mar 2022 17:00
 Operator : SY/MD
 Sample : N2081-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EW5X1

Quant Time: Mar 29 01:45:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Mar 29 01:43:13 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	324645	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	334050	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	195848	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	85399	36.275	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.540%
7) Chloroethane-d5	1.919	69	77458	41.727	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.460%
11) 1,1-Dichloroethene-d2	2.572	63	138141	32.072	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.140%
21) 2-Butanone-d5	4.642	46	240249	118.896	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	118.900%
24) Chloroform-d	5.067	84	193652	44.956	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.920%
26) 1,2-Dichloroethane-d4	5.703	65	128021	48.457	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.920%
32) Benzene-d6	5.729	84	382565	45.513	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.020%
36) 1,2-Dichloropropane-d6	6.694	67	125519	48.624	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.240%
41) Toluene-d8	7.899	98	343857	41.987	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	83.980%
43) trans-1,3-Dichloroprop...	8.179	79	60349	46.145	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.300%
47) 2-Hexanone-d5	8.636	63	174886	115.728	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	115.730%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	216879	48.955	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.900%
66) 1,2-Dichlorobenzene-d4	12.192	152	166069	47.662	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.320%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	82555	28.122	ug/L	99
8) Chloroethane	1.938	64	687182	372.893	ug/L	99
9) Trichlorofluoromethane	2.147	101	4355	1.052	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	1235	0.516	ug/L #	18
17) trans-1,2-Dichloroethene	3.362	96	12546	5.223	ug/L	97
19) 1,1-Dichloroethane	3.874	63	1348505	325.526	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	1097779	416.885	ug/L	95
27) 1,2-Dichloroethane	5.800	62	5283	1.533	ug/L	96
30) 1,1,1-Trichloroethane	5.321	97	2857758	754.468	ug/L	100
31) Carbon tetrachloride	5.321	117	396529	115.932	ug/L	99
33) Benzene	5.780	78	9171	0.948	ug/L	100
34) Trichloroethene	6.546	95	18997	7.494	ug/L	99
42) Toluene	7.970	91	216140	20.373	ug/L	100
44) trans-1,3-Dichloropropene	8.179	75	2762	0.725	ug/L #	78
46) Tetrachloroethene	8.552	164	37777	16.583	ug/L	98
49) Dibromochloromethane	8.552	129	33078	10.955	ug/L #	11
52) Ethylbenzene	9.571	91	58630	5.256	ug/L	98
53) m,p-Xylene	9.693	106	55839	12.757	ug/L	99
54) o-Xylene	10.102	106	32530	7.572	ug/L	96

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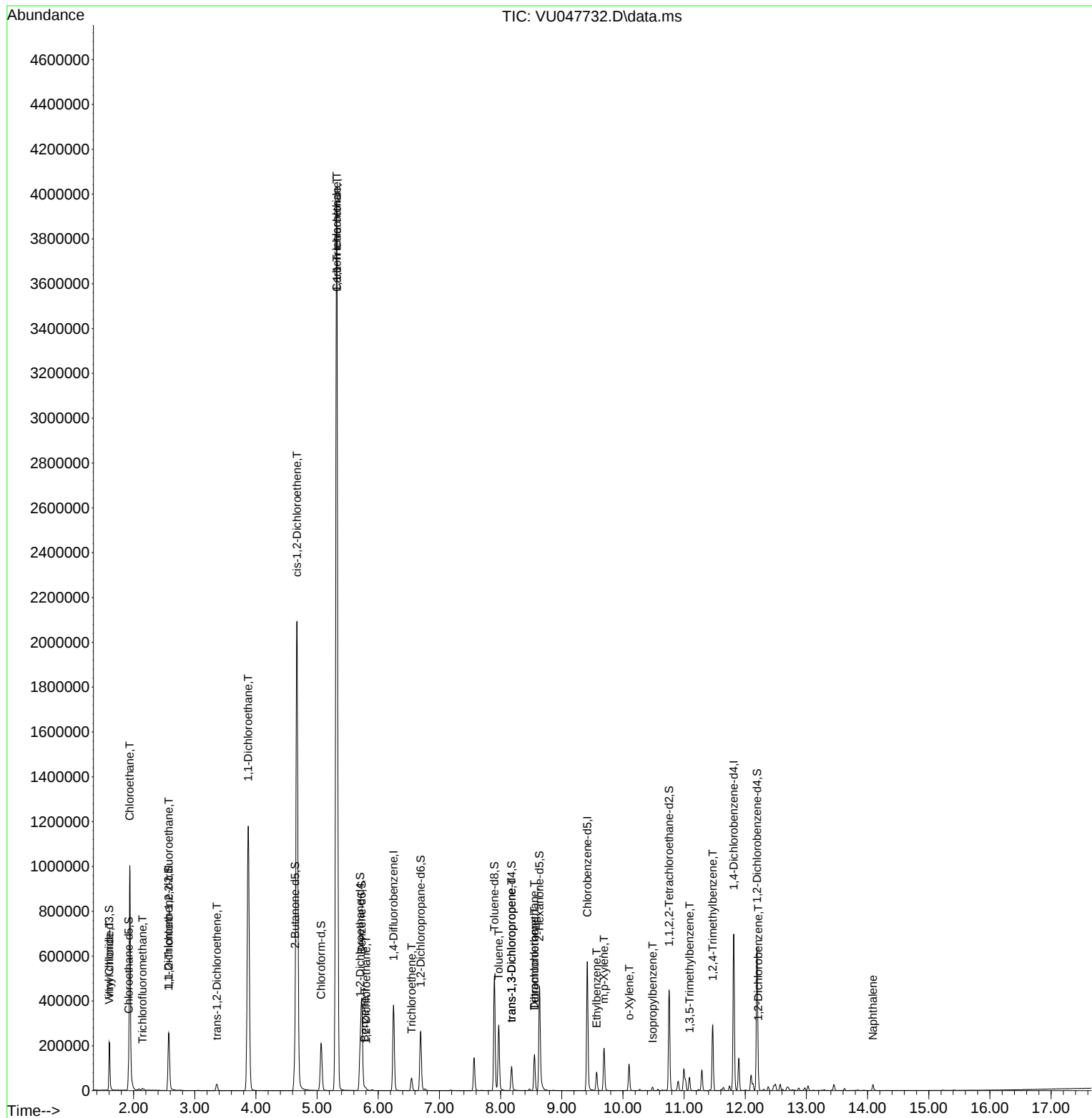
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Isopropylbenzene	10.484	105	10545	0.996	ug/L	96
62) 1,3,5-Trimethylbenzene	11.089	105	32950	5.737	ug/L	93
63) 1,2,4-Trimethylbenzene	11.468	105	159116	18.240	ug/L	100
67) 1,2-Dichlorobenzene	12.214	146	8993	1.528	ug/L	94
71) Naphthalene	14.089	128	22068	1.769	ug/L	99

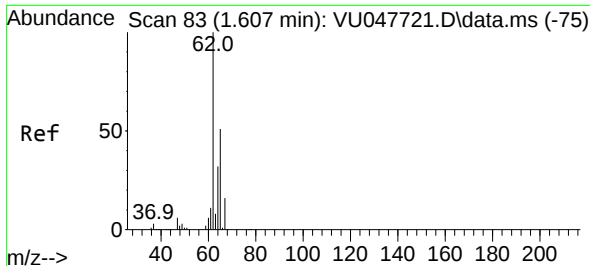
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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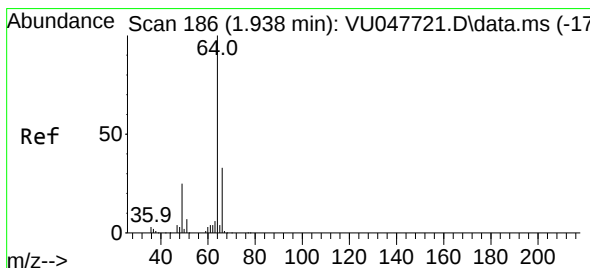
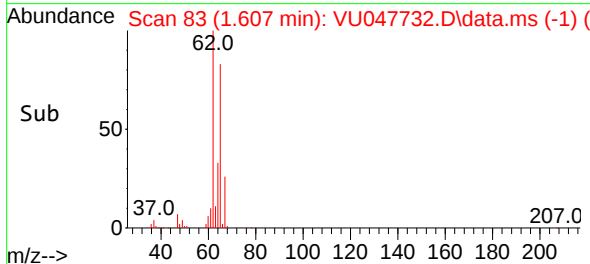
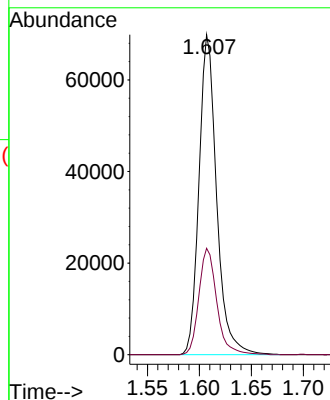
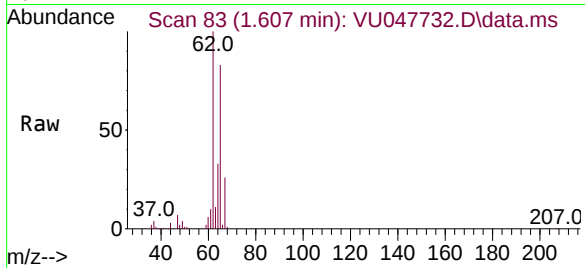




#5
 Vinyl chloride
 Concen: 28.122 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. -0.000 min
 Lab File: VU047732.D
 Acq: 28 Mar 2022 17:00

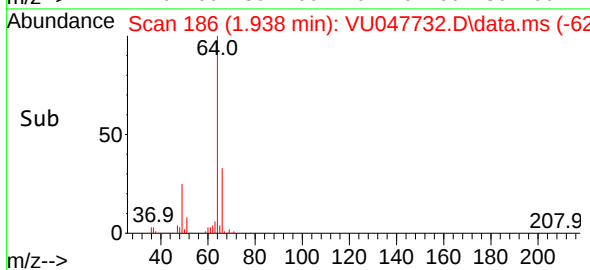
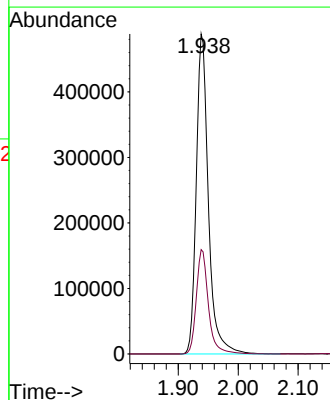
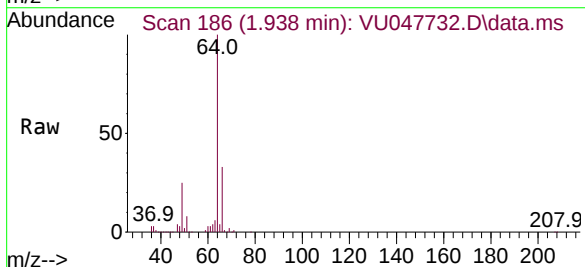
Instrument :
 MSVOA_U
 ClientSampleId :
 EW5X1

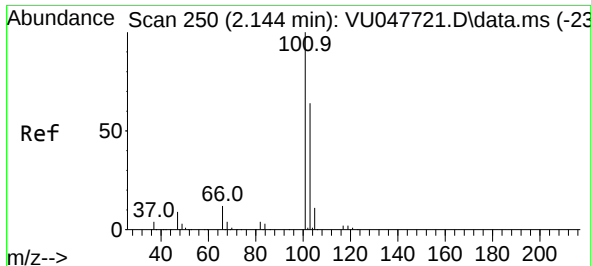
Tgt Ion: 62 Resp: 82555
 Ion Ratio Lower Upper
 62 100
 64 33.2 23.7 43.9



#8
 Chloroethane
 Concen: 372.893 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. -0.000 min
 Lab File: VU047732.D
 Acq: 28 Mar 2022 17:00

Tgt Ion: 64 Resp: 687182
 Ion Ratio Lower Upper
 64 100
 66 32.6 23.3 43.3

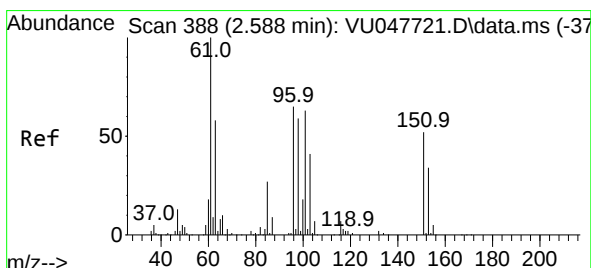
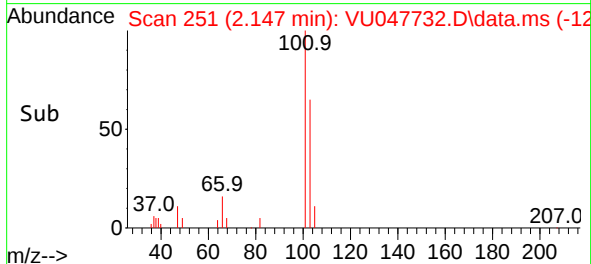
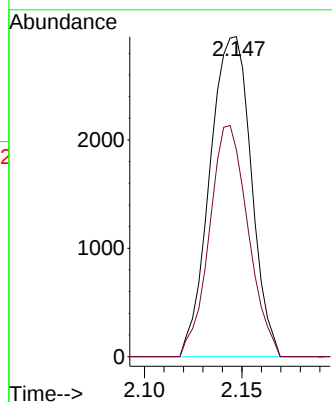
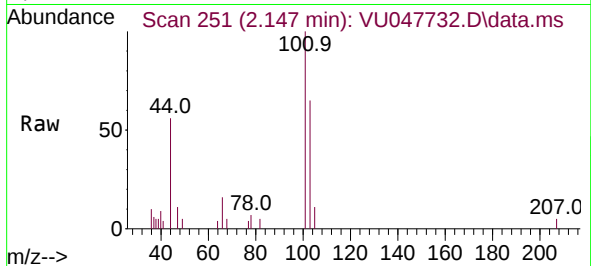




#9
 Trichlorofluoromethane
 Concen: 1.052 ug/L
 RT: 2.147 min Scan# 214
 Delta R.T. 0.003 min
 Lab File: VU047732.D
 Acq: 28 Mar 2022 17:00

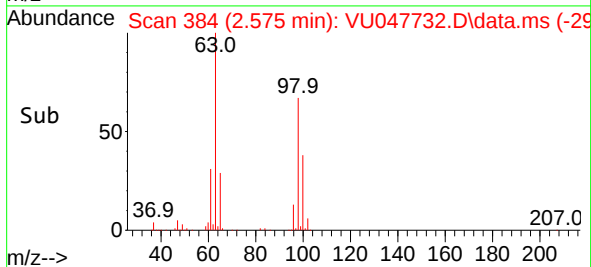
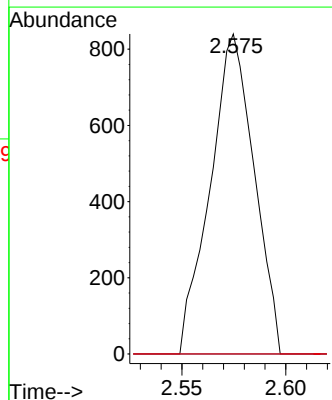
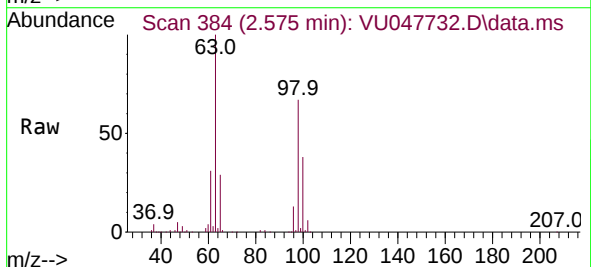
Instrument :
 MSVOA_U
 ClientSampleId :
 EW5X1

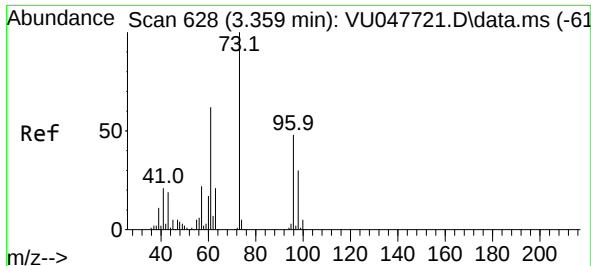
Tgt Ion:101 Resp: 4355
 Ion Ratio Lower Upper
 101 100
 103 67.6 51.4 77.2



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.516 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.013 min
 Lab File: VU047732.D
 Acq: 28 Mar 2022 17:00

Tgt Ion:101 Resp: 1235
 Ion Ratio Lower Upper
 101 100
 85 0.0 32.8 49.2#
 151 0.0 63.0 94.6#

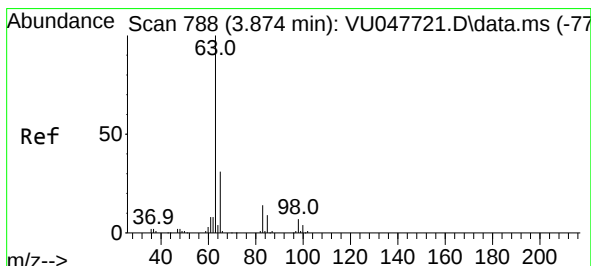
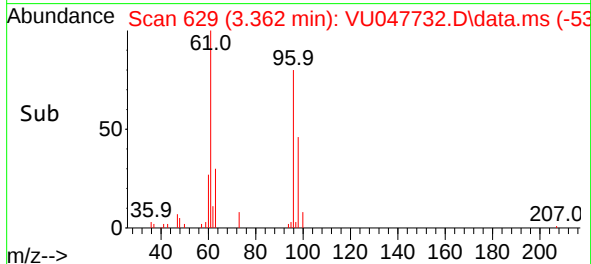
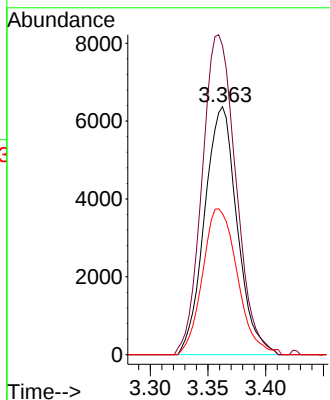
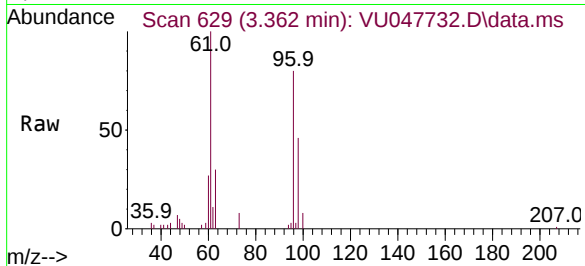




#17
trans-1,2-Dichloroethene
Concen: 5.223 ug/L
RT: 3.362 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU047732.D
Acq: 28 Mar 2022 17:00

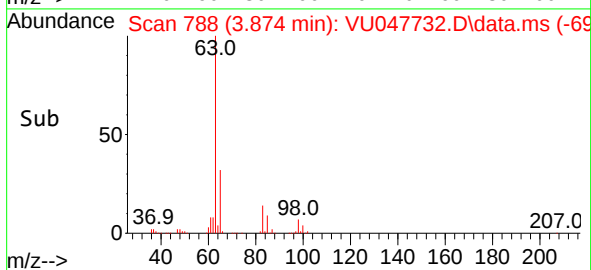
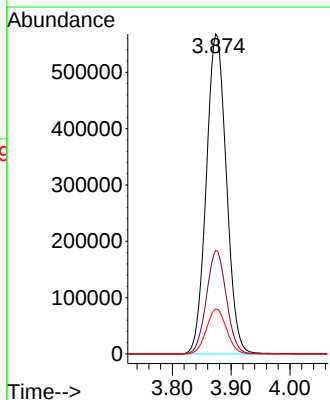
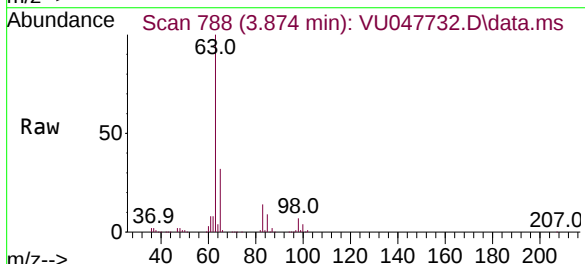
Instrument :
MSVOA_U
ClientSampleId :
EW5X1

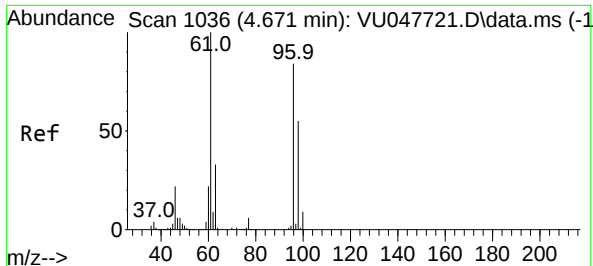
Tgt Ion: 96 Resp: 12546
Ion Ratio Lower Upper
96 100
61 124.6 88.4 164.2
98 56.9 43.3 80.5



#19
1,1-Dichloroethane
Concen: 325.526 ug/L
RT: 3.874 min Scan# 788
Delta R.T. -0.000 min
Lab File: VU047732.D
Acq: 28 Mar 2022 17:00

Tgt Ion: 63 Resp: 1348505
Ion Ratio Lower Upper
63 100
65 32.4 22.0 41.0
83 14.1 9.7 18.1





#20

cis-1,2-Dichloroethene

Concen: 416.885 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VU047732.D

Acq: 28 Mar 2022 17:00

Instrument :

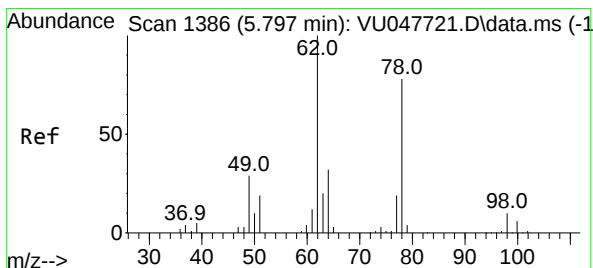
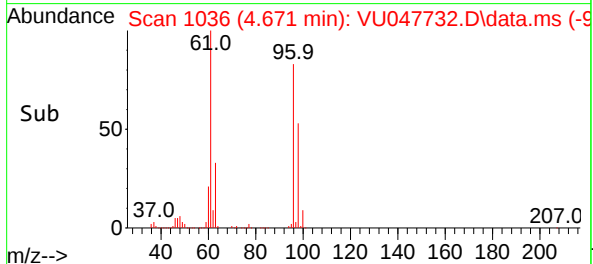
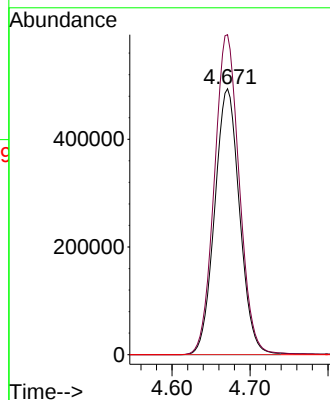
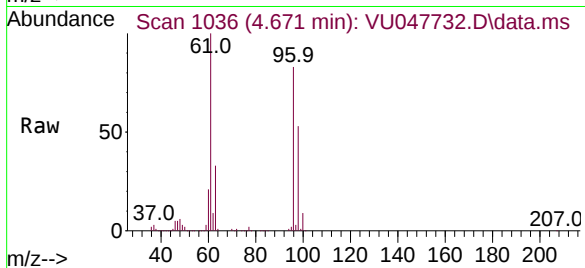
MSVOA_U

ClientSampleId :

EW5X1

Tgt Ion: 96 Resp: 1097779

Ion	Ratio	Lower	Upper
96	100		
61	120.3	80.7	149.9
68	0.0	0.0	0.0



#27

1,2-Dichloroethane

Concen: 1.533 ug/L

RT: 5.800 min Scan# 1387

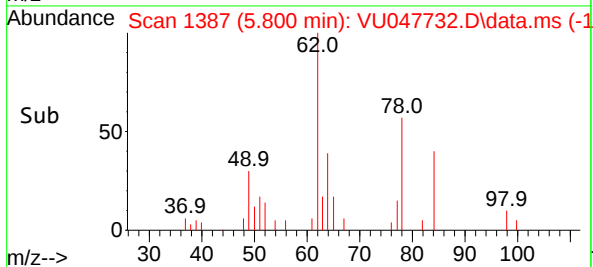
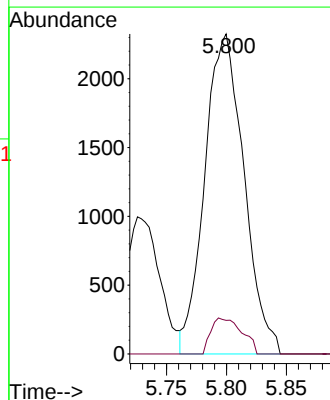
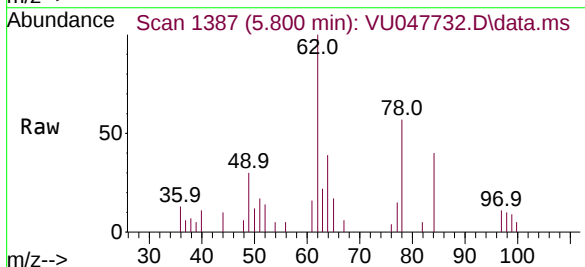
Delta R.T. 0.003 min

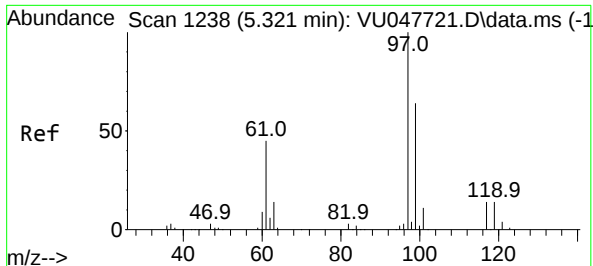
Lab File: VU047732.D

Acq: 28 Mar 2022 17:00

Tgt Ion: 62 Resp: 5283

Ion	Ratio	Lower	Upper
62	100		
98	10.5	7.4	11.0





#30

1,1,1-Trichloroethane

Concen: 754.468 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VU047732.D

Acq: 28 Mar 2022 17:00

Instrument :

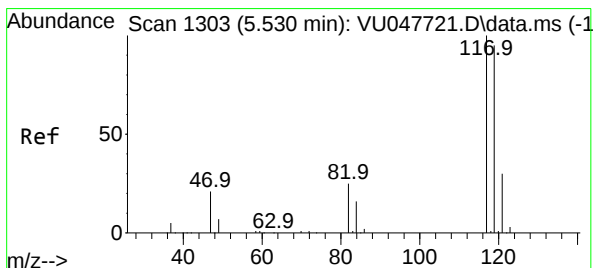
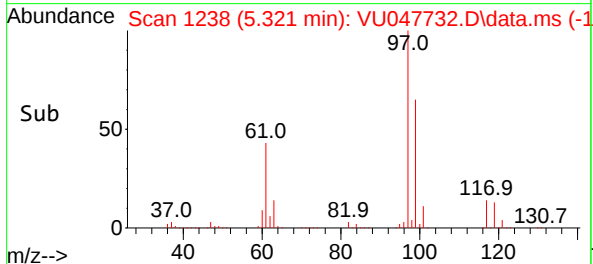
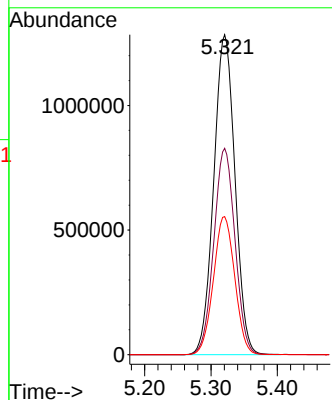
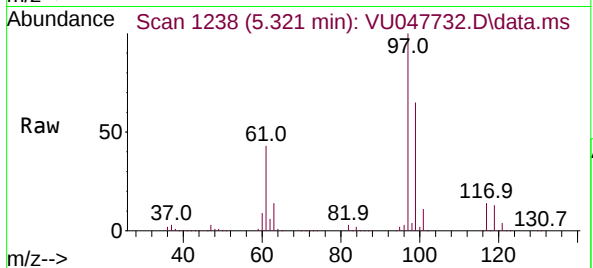
MSVOA_U

ClientSampleId :

EW5X1

Tgt Ion: 97 Resp: 2857758

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.6	77.4
61	43.5	34.2	51.4



#31

Carbon tetrachloride

Concen: 115.932 ug/L

RT: 5.321 min Scan# 1238

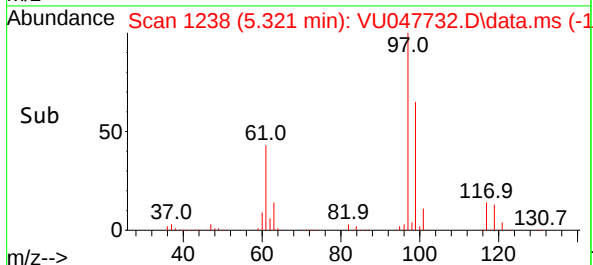
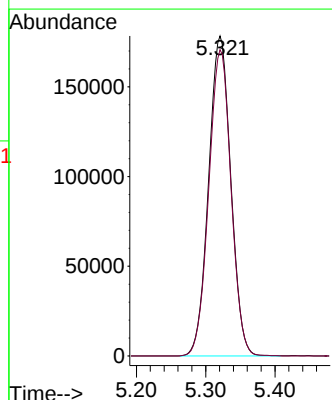
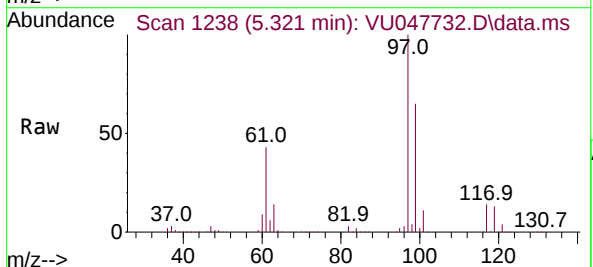
Delta R.T. -0.209 min

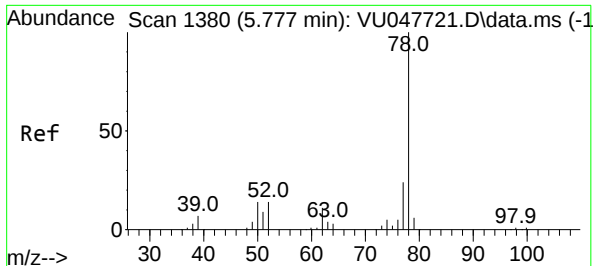
Lab File: VU047732.D

Acq: 28 Mar 2022 17:00

Tgt Ion: 117 Resp: 396529

Ion	Ratio	Lower	Upper
117	100		
119	95.9	77.2	115.8





#33

Benzene

Concen: 0.948 ug/L

RT: 5.780 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU047732.D

Acq: 28 Mar 2022 17:00

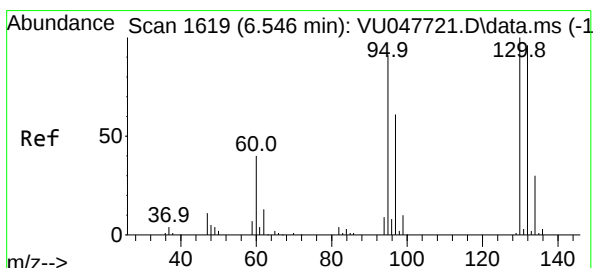
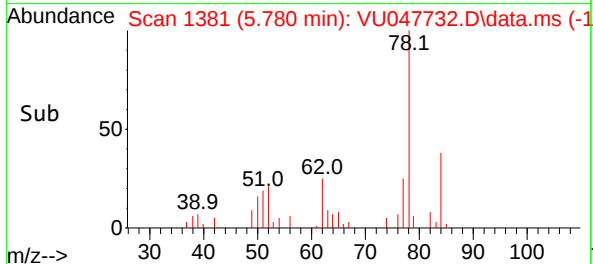
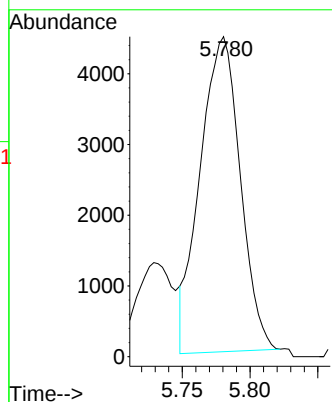
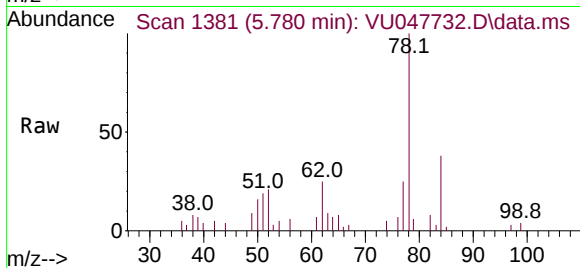
Instrument :

MSVOA_U

ClientSampleId :

EW5X1

Tgt Ion: 78 Resp: 9171



#34

Trichloroethene

Concen: 7.494 ug/L

RT: 6.546 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VU047732.D

Acq: 28 Mar 2022 17:00

Tgt Ion: 95 Resp: 18997

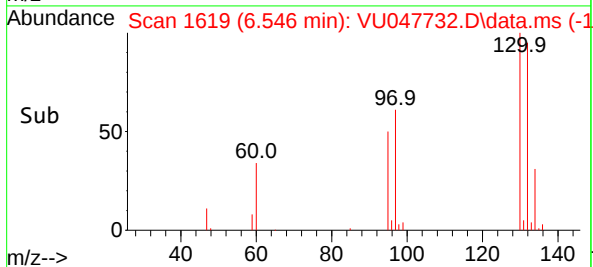
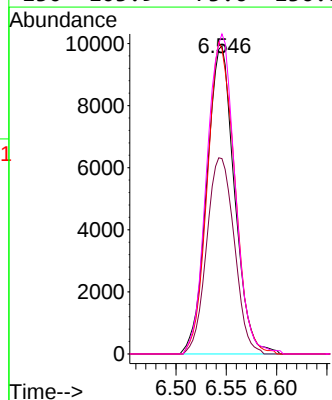
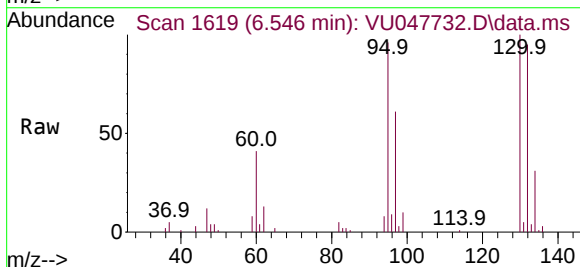
Ion Ratio Lower Upper

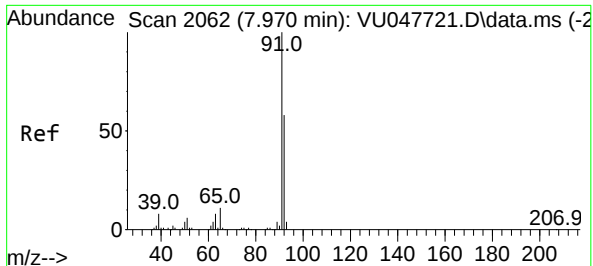
95 100

97 63.4 44.7 82.9

132 99.1 70.4 130.8

130 103.9 73.6 136.8





#42

Toluene

Concen: 20.373 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VU047732.D

Acq: 28 Mar 2022 17:00

Instrument :

MSVOA_U

ClientSampleId :

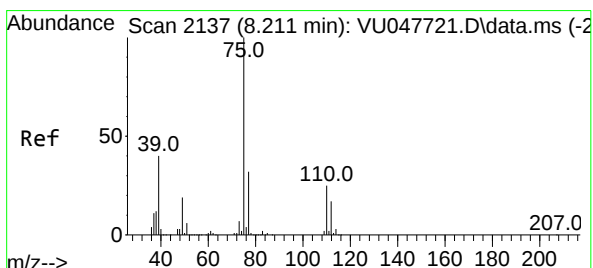
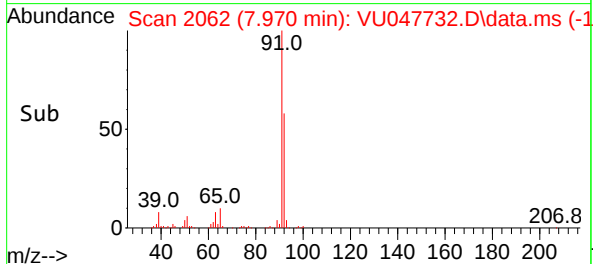
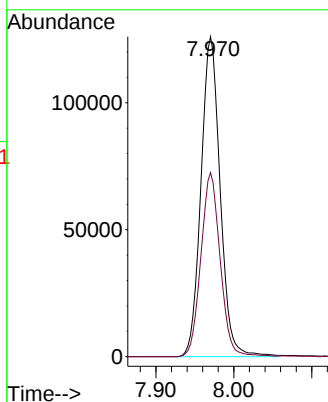
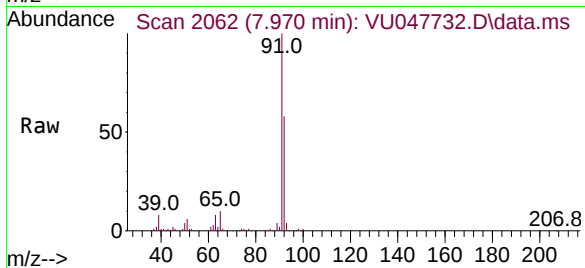
EW5X1

Tgt Ion: 91 Resp: 216140

Ion Ratio Lower Upper

91 100

92 57.5 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 0.725 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.032 min

Lab File: VU047732.D

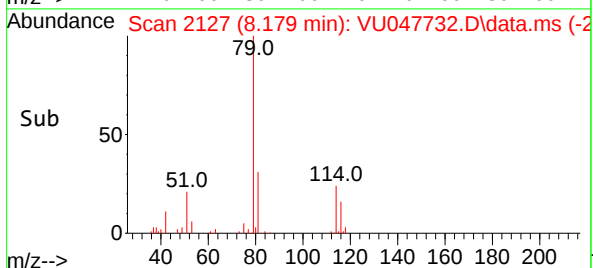
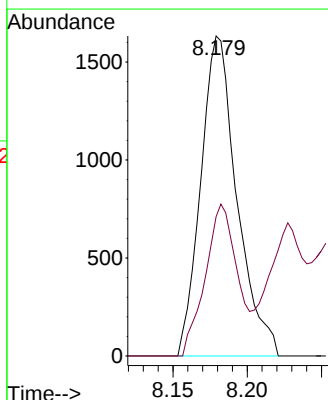
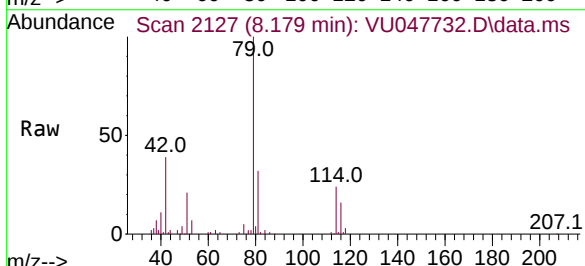
Acq: 28 Mar 2022 17:00

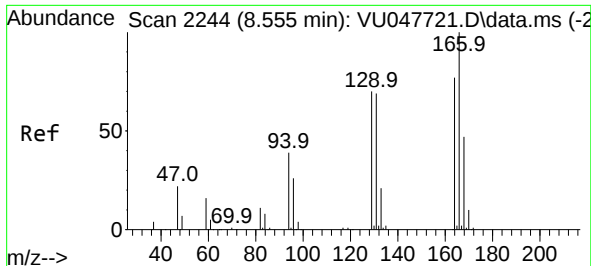
Tgt Ion: 75 Resp: 2762

Ion Ratio Lower Upper

75 100

77 43.5 22.0 40.8#

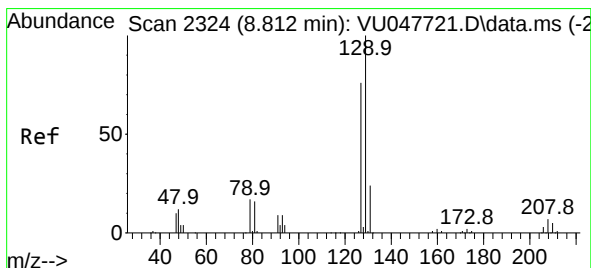
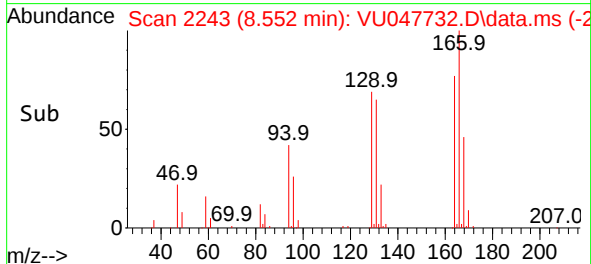
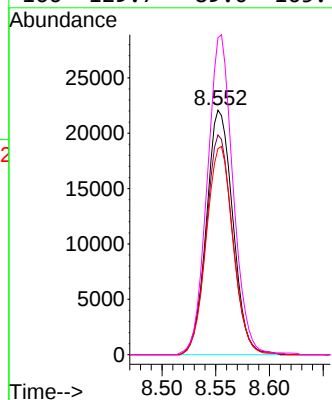
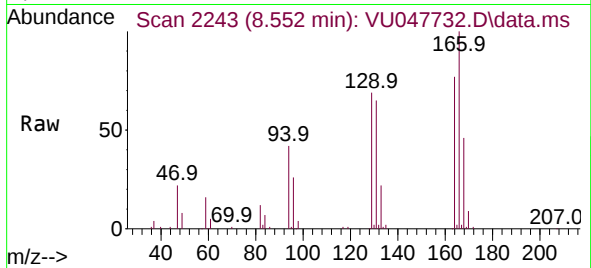




#46
Tetrachloroethene
Concen: 16.583 ug/L
RT: 8.552 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU047732.D
Acq: 28 Mar 2022 17:00

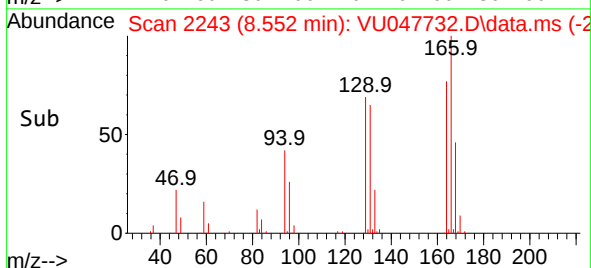
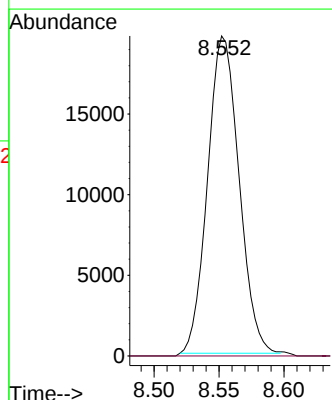
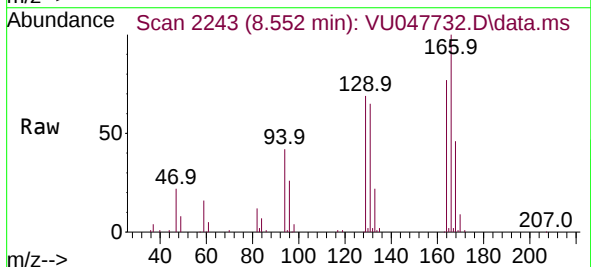
Instrument :
MSVOA_U
ClientSampleId :
EW5X1

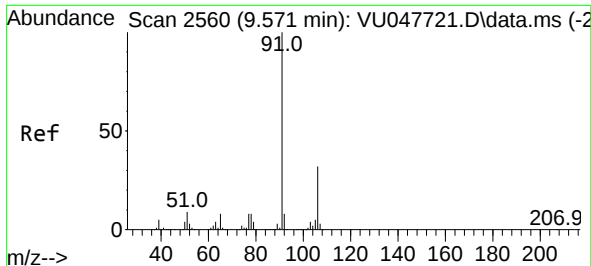
Tgt Ion:164 Resp: 37777
Ion Ratio Lower Upper
164 100
129 89.9 62.4 116.0
131 84.3 60.7 112.7
166 129.7 89.0 165.4



#49
Dibromochloromethane
Concen: 10.955 ug/L
RT: 8.552 min Scan# 2243
Delta R.T. -0.260 min
Lab File: VU047732.D
Acq: 28 Mar 2022 17:00

Tgt Ion:129 Resp: 33078
Ion Ratio Lower Upper
129 100
127 0.0 54.2 100.6#

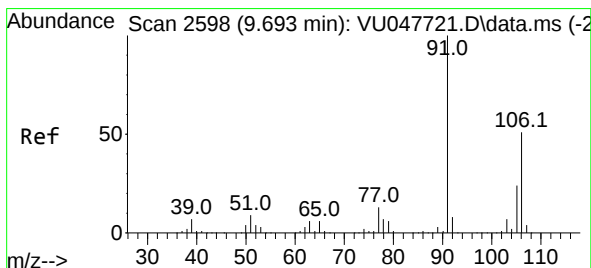
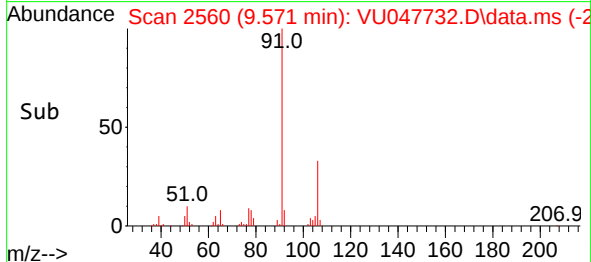
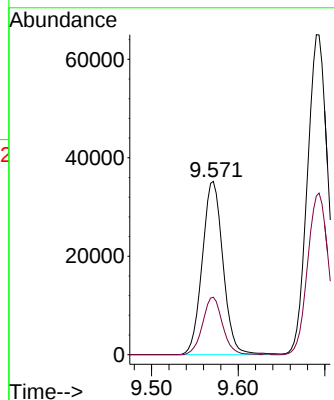
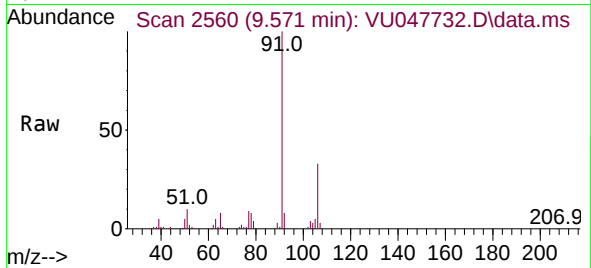




#52
Ethylbenzene
Concen: 5.256 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.000 min
Lab File: VU047732.D
Acq: 28 Mar 2022 17:00

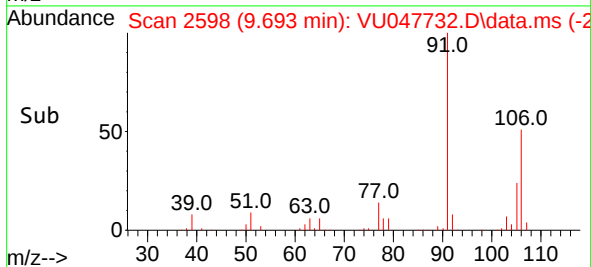
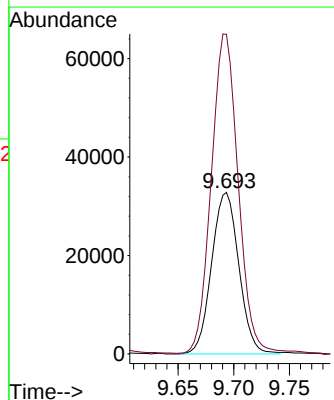
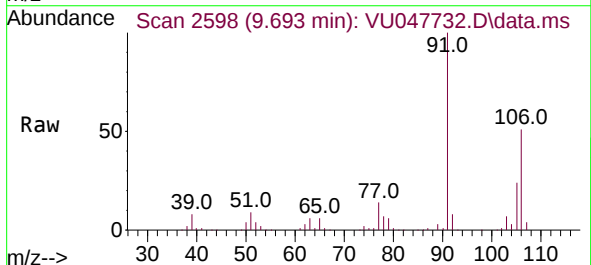
Instrument :
MSVOA_U
ClientSampleId :
EW5X1

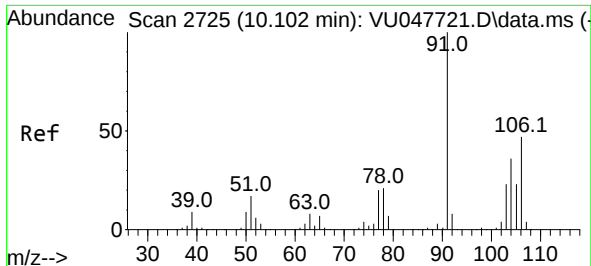
Tgt Ion: 91 Resp: 58630
Ion Ratio Lower Upper
91 100
106 33.2 22.4 41.6



#53
m,p-Xylene
Concen: 12.757 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.000 min
Lab File: VU047732.D
Acq: 28 Mar 2022 17:00

Tgt Ion:106 Resp: 55839
Ion Ratio Lower Upper
106 100
91 197.9 137.7 255.7

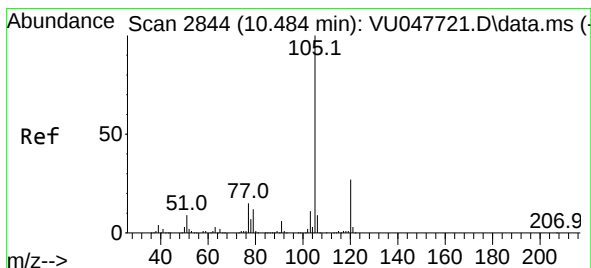
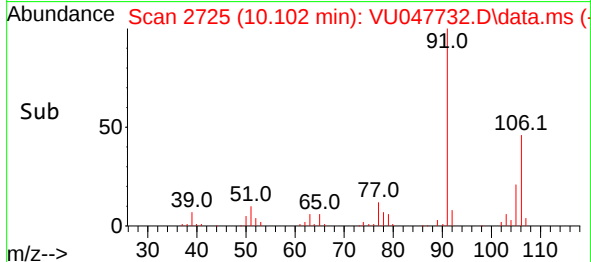
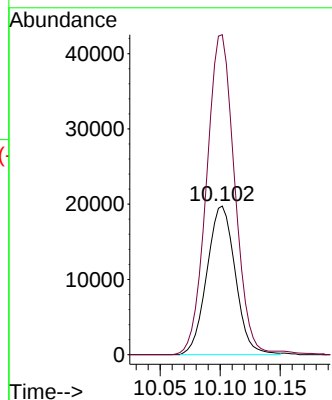
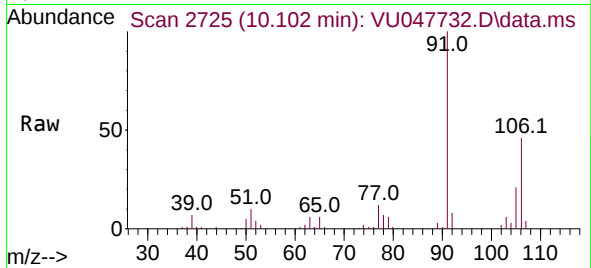




#54
o-Xylene
Concen: 7.572 ug/L
RT: 10.102 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU047732.D
Acq: 28 Mar 2022 17:00

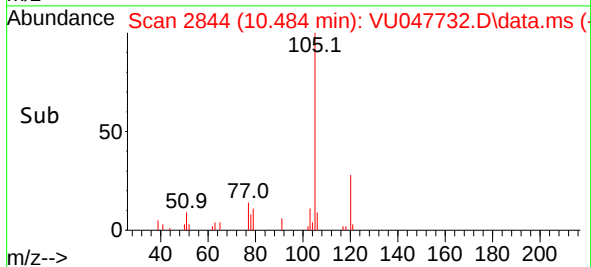
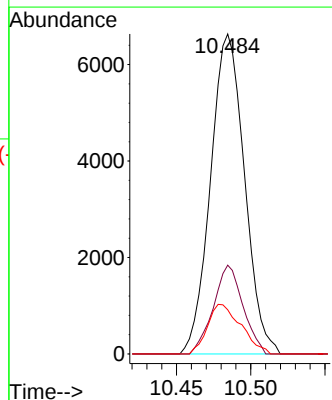
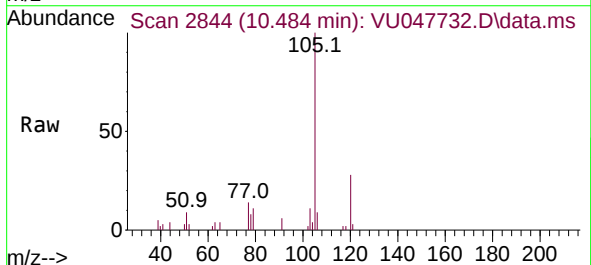
Instrument :
MSVOA_U
ClientSampleId :
EW5X1

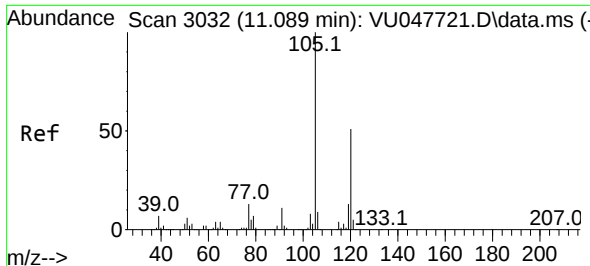
Tgt Ion:106 Resp: 32530
Ion Ratio Lower Upper
106 100
91 215.3 146.7 272.5



#61
Isopropylbenzene
Concen: 0.996 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.000 min
Lab File: VU047732.D
Acq: 28 Mar 2022 17:00

Tgt Ion:105 Resp: 10545
Ion Ratio Lower Upper
105 100
120 24.2 21.9 32.9
77 15.3 12.1 18.1

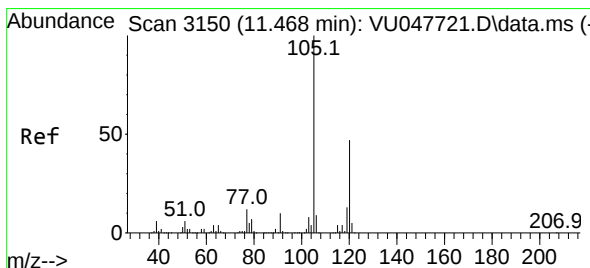
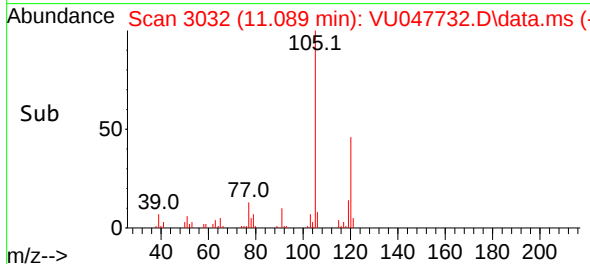
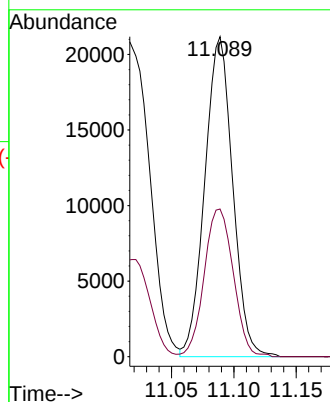
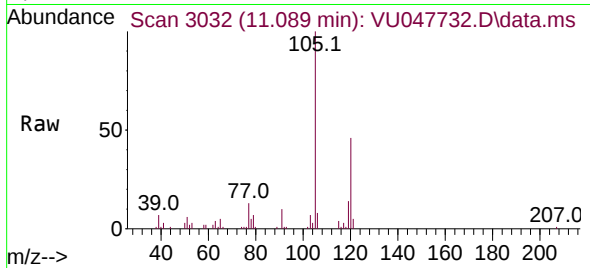




#62
 1,3,5-Trimethylbenzene
 Concen: 5.737 ug/L
 RT: 11.089 min Scan# 3032
 Delta R.T. -0.000 min
 Lab File: VU047732.D
 Acq: 28 Mar 2022 17:00

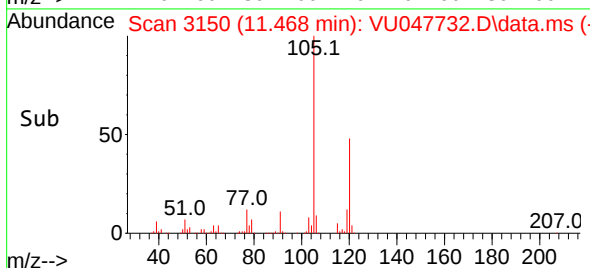
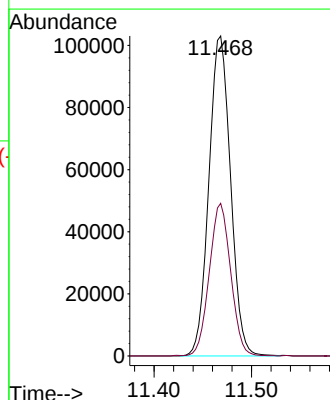
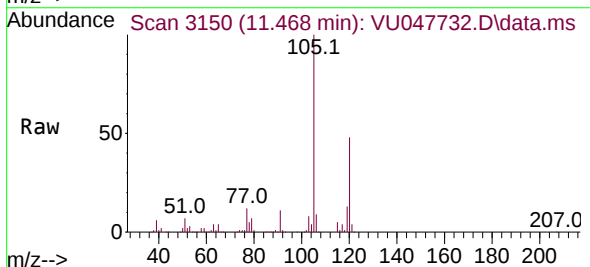
Instrument :
 MSVOA_U
 ClientSampleId :
 EW5X1

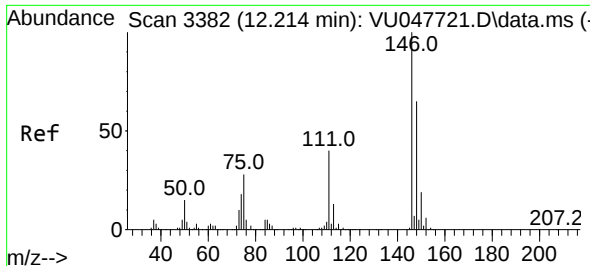
Tgt Ion:105 Resp: 32950
 Ion Ratio Lower Upper
 105 100
 120 46.1 40.8 61.2



#63
 1,2,4-Trimethylbenzene
 Concen: 18.240 ug/L
 RT: 11.468 min Scan# 3150
 Delta R.T. -0.000 min
 Lab File: VU047732.D
 Acq: 28 Mar 2022 17:00

Tgt Ion:105 Resp: 159116
 Ion Ratio Lower Upper
 105 100
 120 47.1 37.6 56.4





#67

1,2-Dichlorobenzene

Concen: 1.528 ug/L

RT: 12.214 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU047732.D

Acq: 28 Mar 2022 17:00

Instrument :

MSVOA_U

ClientSampleId :

EW5X1

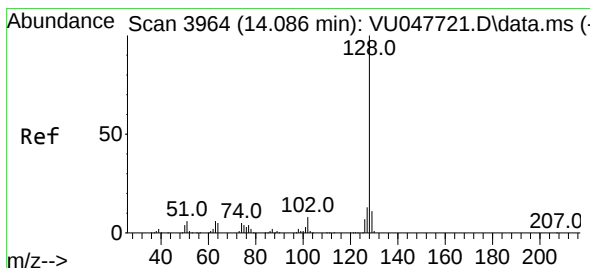
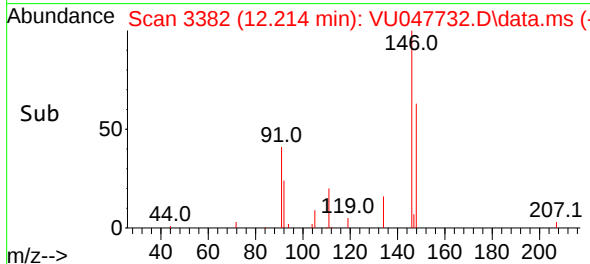
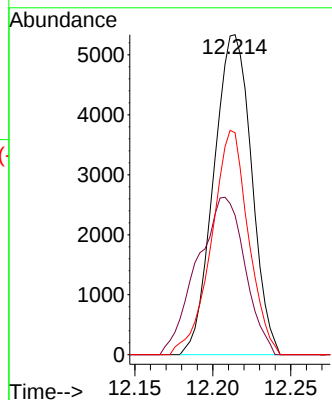
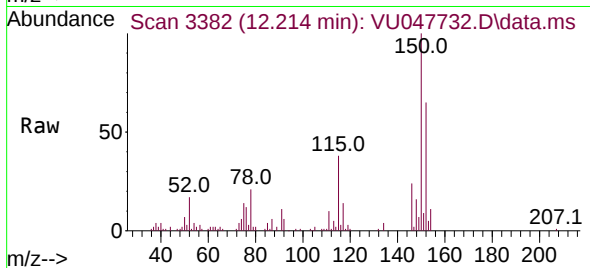
Tgt Ion:146 Resp: 8993

Ion Ratio Lower Upper

146 100

111 43.6 31.7 47.5

148 69.3 51.4 77.2



#71

Naphthalene

Concen: 1.769 ug/L

RT: 14.089 min Scan# 3965

Delta R.T. 0.003 min

Lab File: VU047732.D

Acq: 28 Mar 2022 17:00

Tgt Ion:128 Resp: 22068

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.2

129 11.6 8.8 13.2

