

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032422\
 Data File : VU047645.D
 Acq On : 24 Mar 2022 20:23
 Operator : SY/MD
 Sample : N2081-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 24 23:49:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 24 23:34:42 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	104379	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	110939	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	65150	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	61307	80.995	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	162.000%#
7) Chloroethane-d5	1.919	69	47573	79.709	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	159.420%#
11) 1,1-Dichloroethene-d2	2.571	63	86040	62.130	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	124.260%
21) 2-Butanone-d5	4.639	46	112031	172.440	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	172.440%#
24) Chloroform-d	5.066	84	114850	82.926	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	165.860%#
26) 1,2-Dichloroethane-d4	5.706	65	72688	85.573	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	171.140%#
32) Benzene-d6	5.732	84	229818	82.327	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	164.660%#
36) 1,2-Dichloropropane-d6	6.693	67	71223	83.078	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	166.160%#
41) Toluene-d8	7.899	98	208133	76.526	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	153.060%#
43) trans-1,3-Dichloroprop...	8.179	79	33780	77.775	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	155.560%#
47) 2-Hexanone-d5	8.635	63	76131	151.695	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	151.700%#
56) 1,1,2,2-Tetrachloroeth...	10.758	84	111253	75.616	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	151.240%#
66) 1,2-Dichlorobenzene-d4	12.192	152	93797	80.924	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	161.840%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.526	50	1374	1.485	ug/L	84
5) Vinyl chloride	1.607	62	12596	13.345	ug/L	92
8) Chloroethane	1.938	64	209685	353.896	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	775	1.007	ug/L #	18
12) 1,1-Dichloroethene	2.587	96	7868	10.989	ug/L #	1
13) Acetone	2.658	43	21064	34.840	ug/L	72
14) Carbon disulfide	2.800	76	1390	0.614	ug/L #	87
17) trans-1,2-Dichloroethene	3.359	96	2458	3.183	ug/L	92
18) Methyl tert-butyl Ether	3.372	73	1454	0.667	ug/L #	70
19) 1,1-Dichloroethane	3.877	63	438596	329.301	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	290617	343.256	ug/L	96
22) 2-Butanone	4.722	43	17350	22.277	ug/L	86
27) 1,2-Dichloroethane	5.796	62	446	0.403	ug/L #	75
29) Cyclohexane	5.388	56	966	0.858	ug/L #	54
30) 1,1,1-Trichloroethane	5.320	97	213413	169.654	ug/L	99
31) Carbon tetrachloride	5.320	117	29513	25.982	ug/L	100
34) Trichloroethene	6.545	95	17545	20.840	ug/L	97
35) Methylcyclohexane	6.764	83	2241	1.750	ug/L	92
37) 1,2-Dichloropropane	6.693	63	7783	9.534	ug/L #	87

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

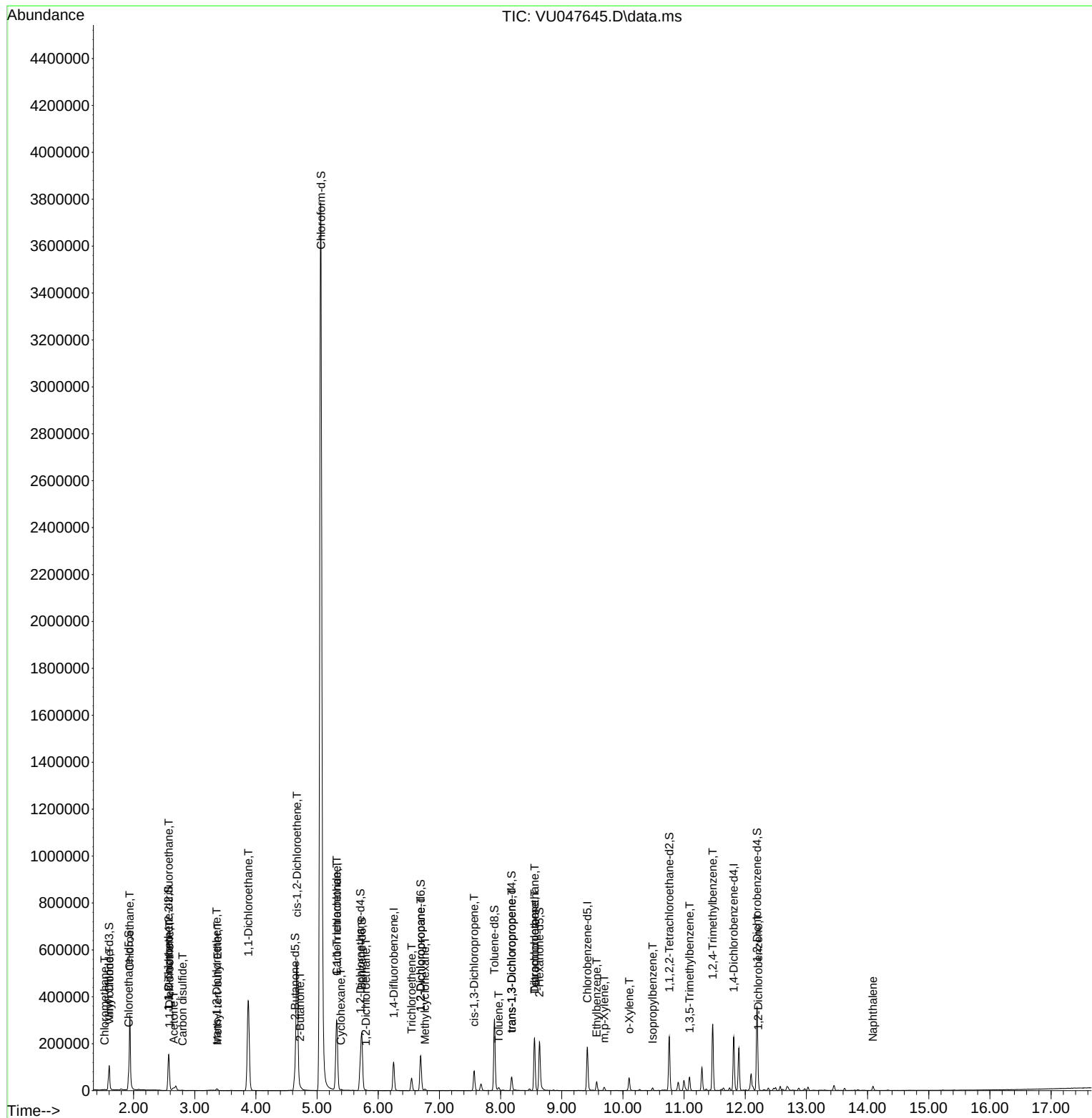
39) cis-1,3-Dichloropropene	7.568	75	2133	1.684	ug/L #	68
42) Toluene	7.970	91	7895	2.241	ug/L	91
44) trans-1,3-Dichloropropene	8.182	75	1541	1.218	ug/L #	75
46) Tetrachloroethene	8.555	164	51879	68.574	ug/L	98
49) Dibromochloromethane	8.555	129	47341	47.211	ug/L #	11
52) Ethylbenzene	9.571	91	26273	7.092	ug/L	98
53) m,p-Xylene	9.697	106	4314	2.968	ug/L	91
54) o-Xylene	10.102	106	15281	10.711	ug/L	97
61) Isopropylbenzene	10.484	105	7596	2.157	ug/L	95
62) 1,3,5-Trimethylbenzene	11.089	105	31326	16.397	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	154116	53.109	ug/L	99
67) 1,2-Dichlorobenzene	12.214	146	4584	2.341	ug/L	93
71) Naphthalene	14.089	128	15921	3.836	ug/L #	86

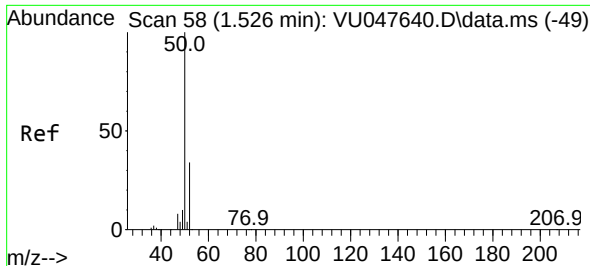
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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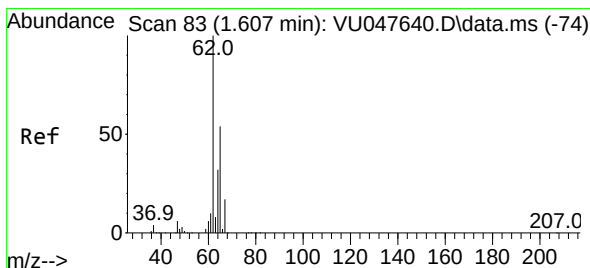
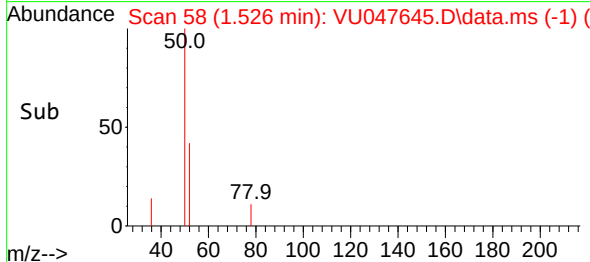
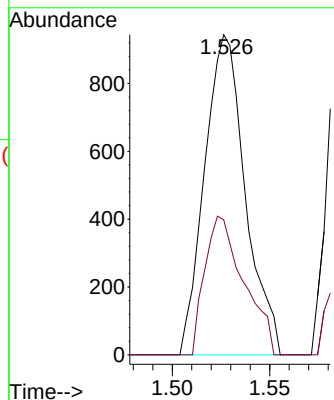
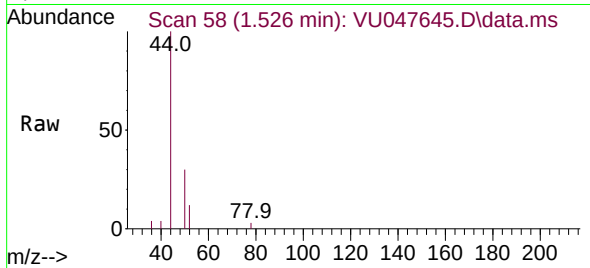




#3
Chloromethane
Concen: 1.485 ug/L
RT: 1.526 min Scan# 58
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

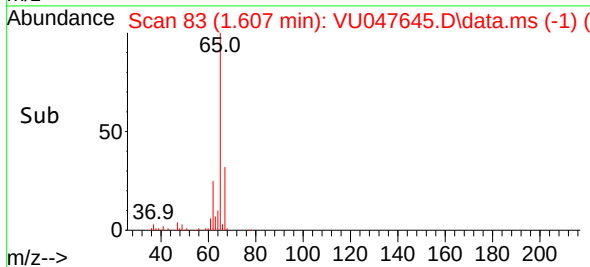
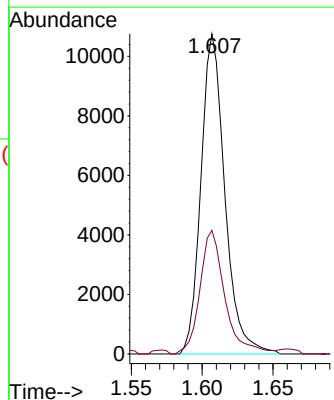
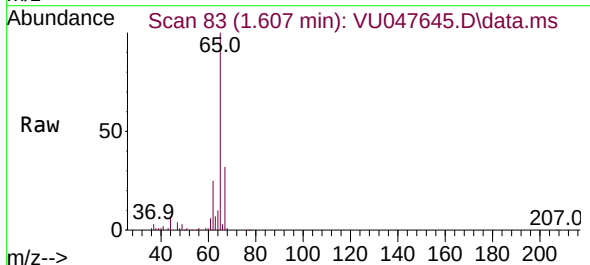
Instrument :
MSVOA_U
ClientSampleId :

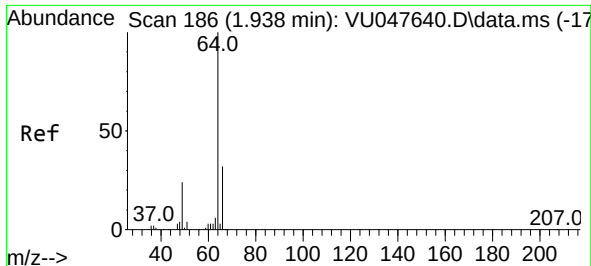
Tgt Ion: 50 Resp: 1374
Ion Ratio Lower Upper
50 100
52 42.2 23.2 43.2



#5
Vinyl chloride
Concen: 13.345 ug/L
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

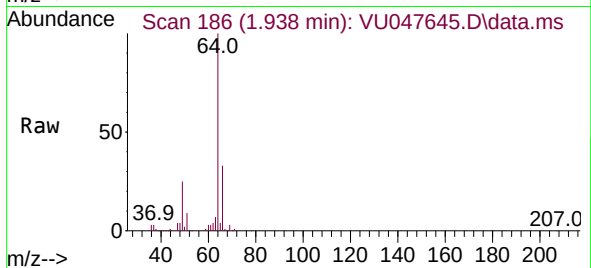
Tgt Ion: 62 Resp: 12596
Ion Ratio Lower Upper
62 100
64 38.6 23.7 43.9



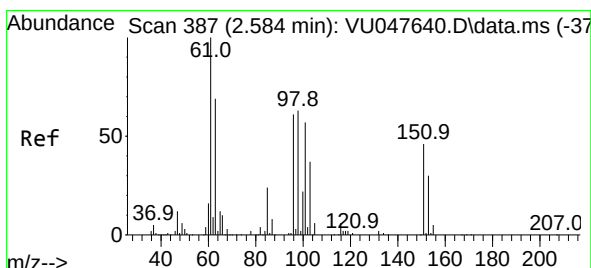
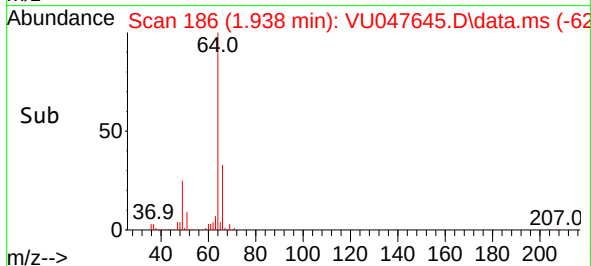
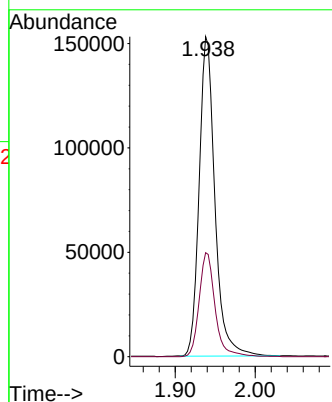


#8
Chloroethane
Concen: 353.896 ug/L
RT: 1.938 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

Instrument :
MSVOA_U
ClientSampleId :

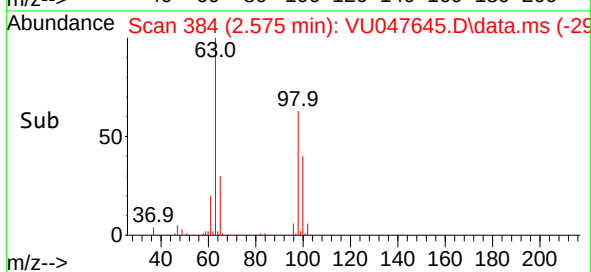
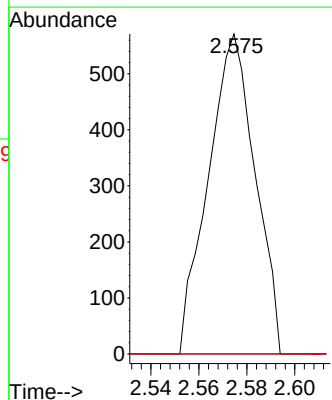
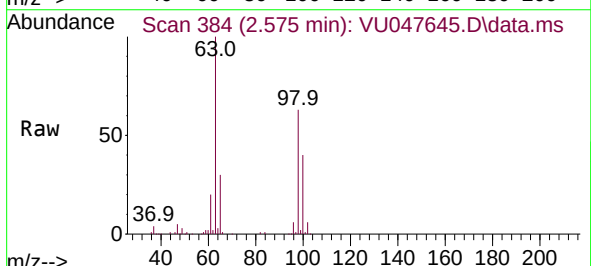


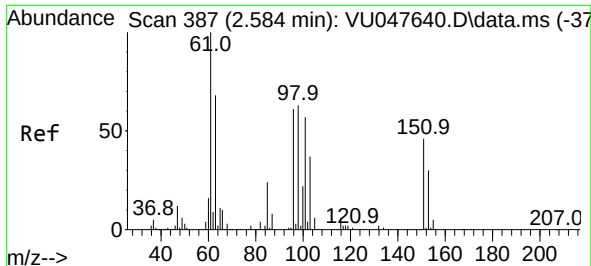
Tgt Ion: 64 Resp: 209685
Ion Ratio Lower Upper
64 100
66 32.5 23.3 43.3



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.007 ug/L
RT: 2.575 min Scan# 384
Delta R.T. -0.010 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

Tgt Ion: 101 Resp: 775
Ion Ratio Lower Upper
101 100
85 0.0 32.8 49.2#
151 0.0 63.0 94.6#

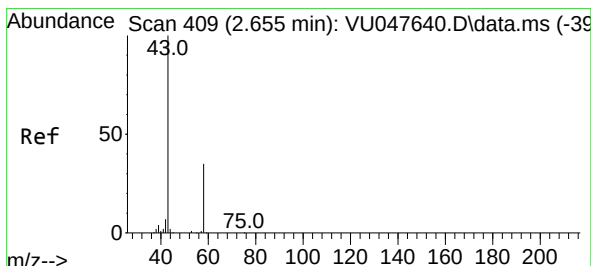
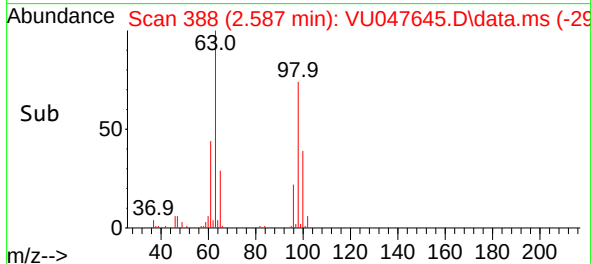
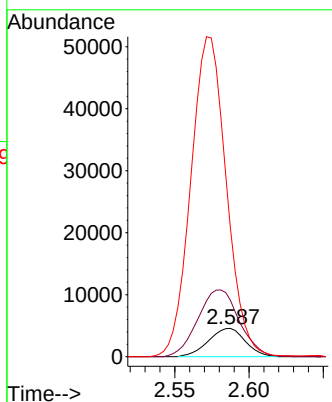
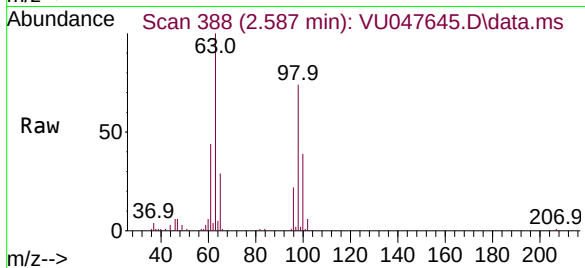




#12
1,1-Dichloroethene
Concen: 10.989 ug/L
RT: 2.587 min Scan# 387
Delta R.T. 0.003 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

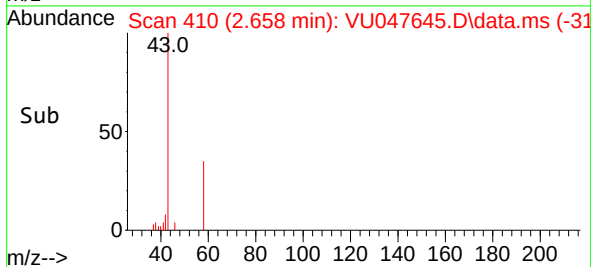
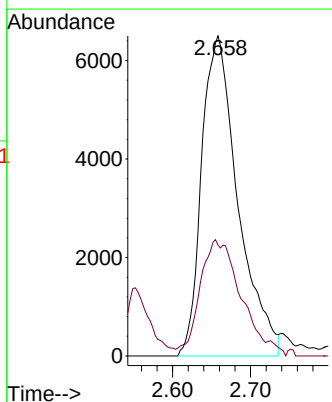
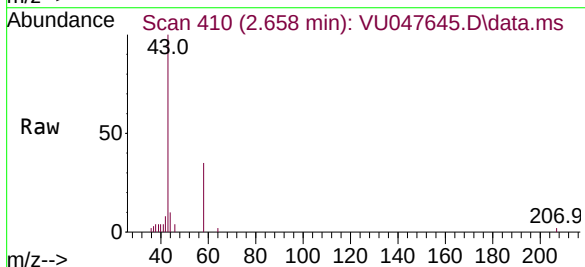
Instrument :
MSVOA_U
ClientSampleId :

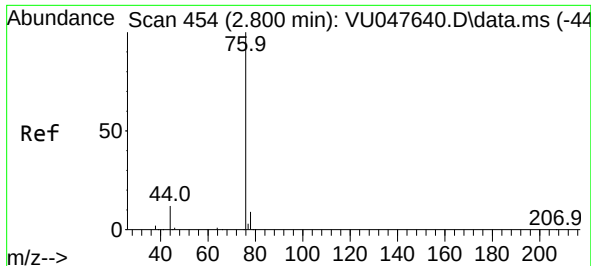
Tgt Ion: 96 Resp: 7868
Ion Ratio Lower Upper
96 100
61 199.5 113.1 210.1
63 455.4 94.8 176.0#



#13
Acetone
Concen: 34.840 ug/L
RT: 2.658 min Scan# 410
Delta R.T. 0.003 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

Tgt Ion: 43 Resp: 21064
Ion Ratio Lower Upper
43 100
58 18.5 0.0 70.0

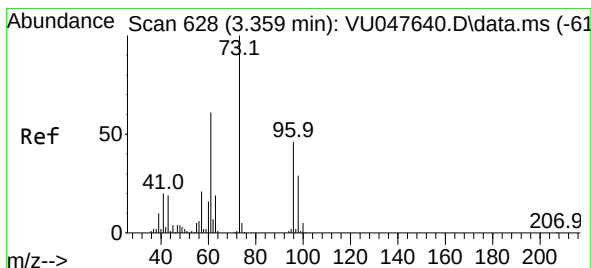
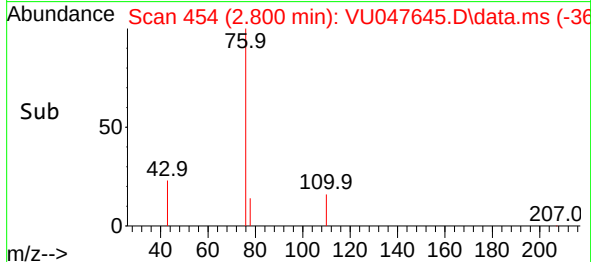
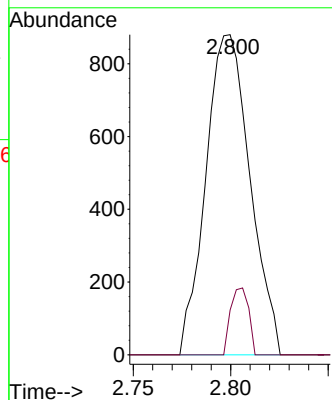
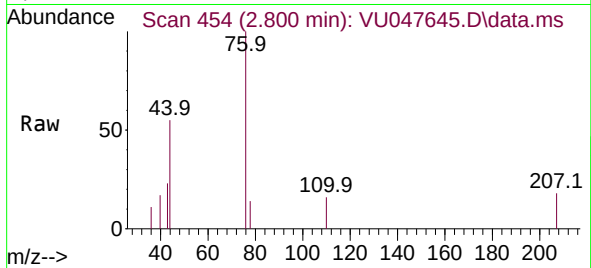




#14
Carbon disulfide
Concen: 0.614 ug/L
RT: 2.800 min Scan# 454
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

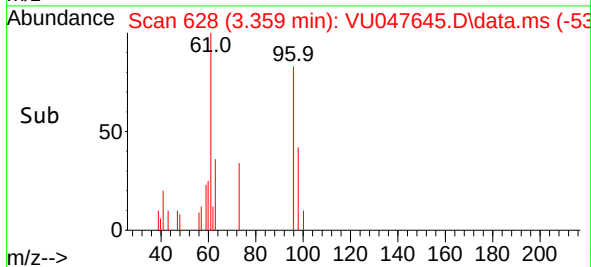
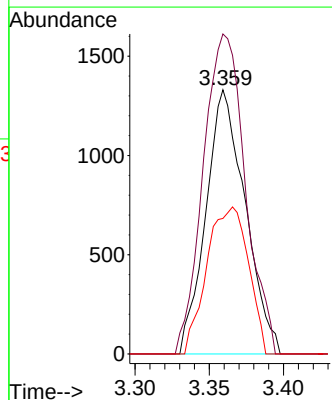
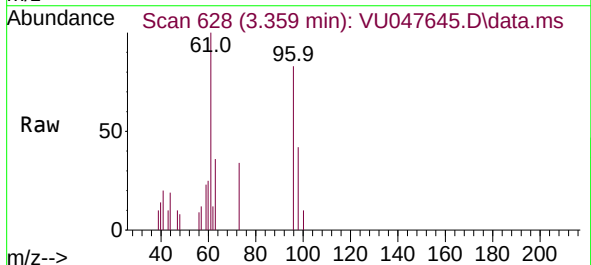
Instrument :
MSVOA_U
ClientSampleId :

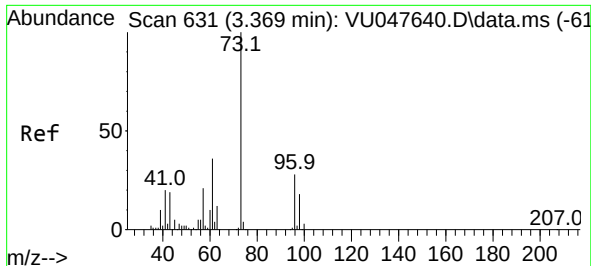
Tgt Ion: 76 Resp: 1390
Ion Ratio Lower Upper
76 100
78 14.0 7.4 11.0#



#17
trans-1,2-Dichloroethene
Concen: 3.183 ug/L
RT: 3.359 min Scan# 628
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

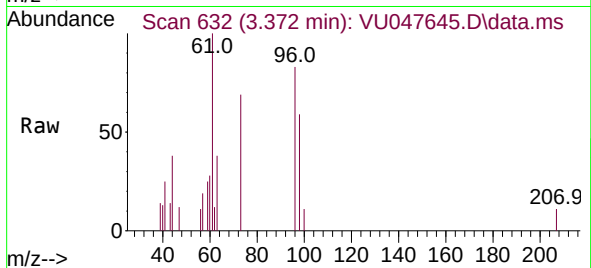
Tgt Ion: 96 Resp: 2458
Ion Ratio Lower Upper
96 100
61 121.1 88.4 164.2
98 51.3 43.3 80.5



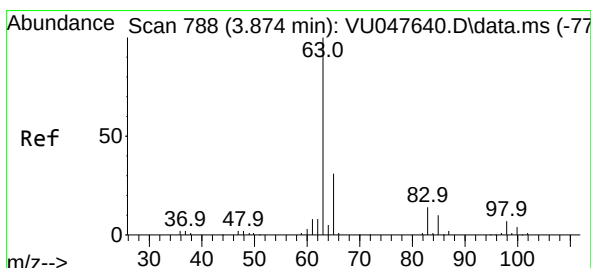
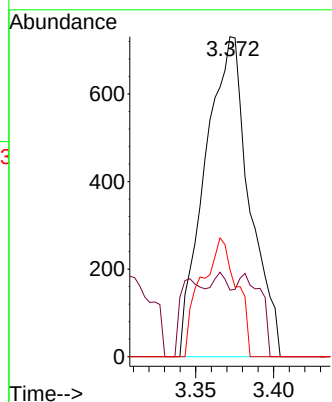
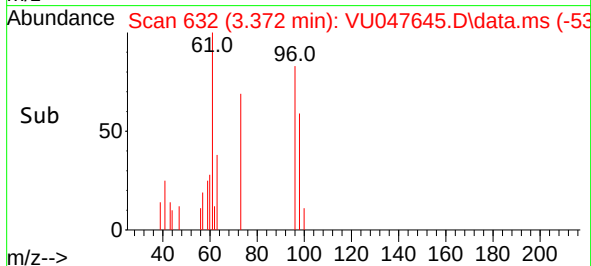


#18
Methyl tert-butyl Ether
Concen: 0.667 ug/L
RT: 3.372 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

Instrument :
MSVOA_U
ClientSampleId :

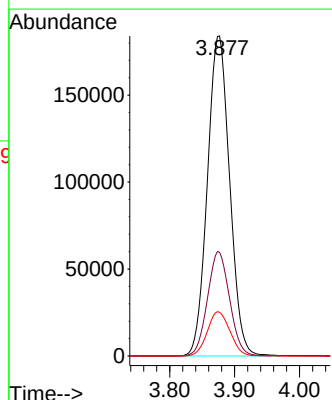
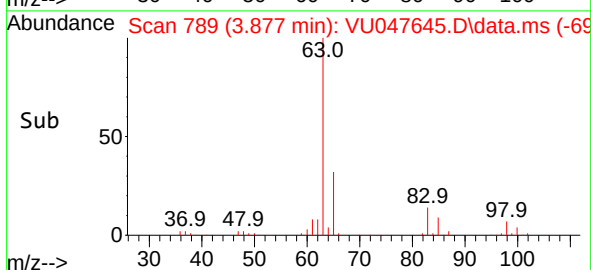
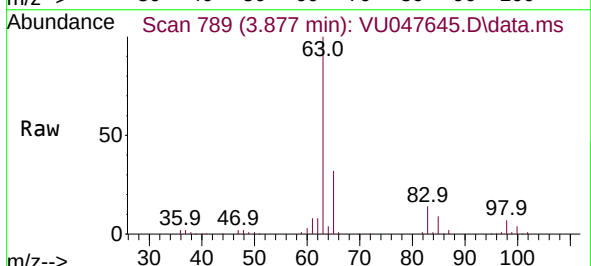


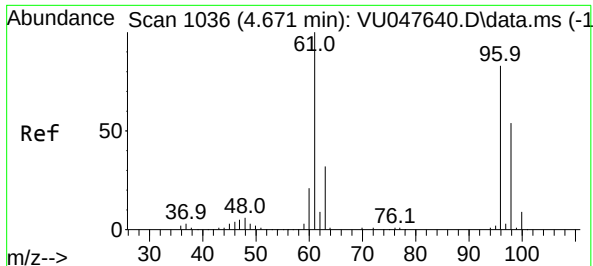
Tgt Ion: 73 Resp: 1454
Ion Ratio Lower Upper
73 100
43 4.6 15.3 22.9#
57 8.4 17.0 25.6#



#19
1,1-Dichloroethane
Concen: 329.301 ug/L
RT: 3.877 min Scan# 789
Delta R.T. 0.003 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

Tgt Ion: 63 Resp: 438596
Ion Ratio Lower Upper
63 100
65 32.4 22.0 41.0
83 13.7 9.7 18.1



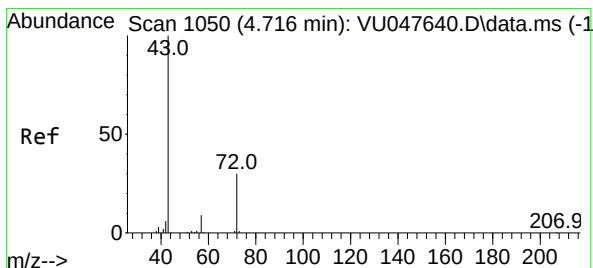
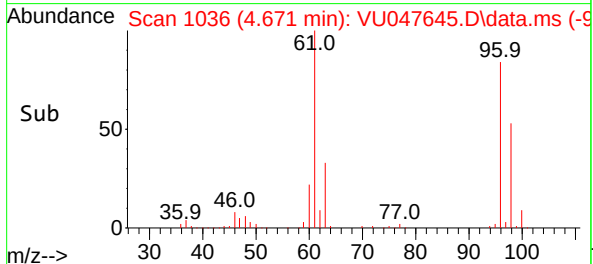
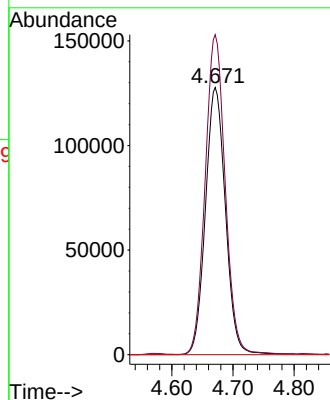
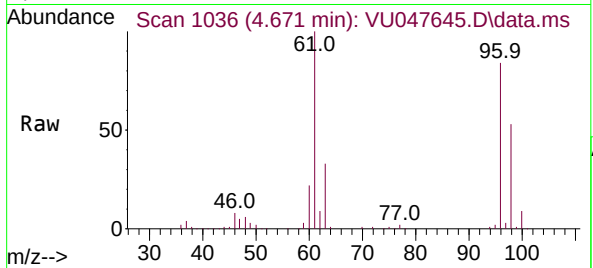


#20
 cis-1,2-Dichloroethene
 Concen: 343.256 ug/L
 RT: 4.671 min Scan# 1036
 Delta R.T. -0.000 min
 Lab File: VU047645.D
 Acq: 24 Mar 2022 20:23

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion: 96 Resp: 290617

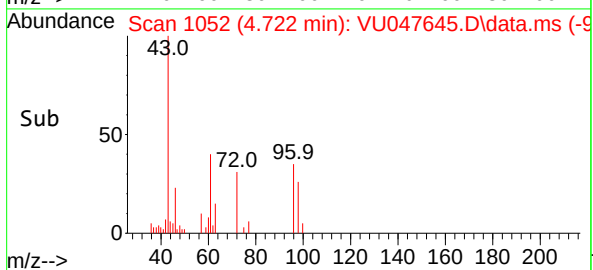
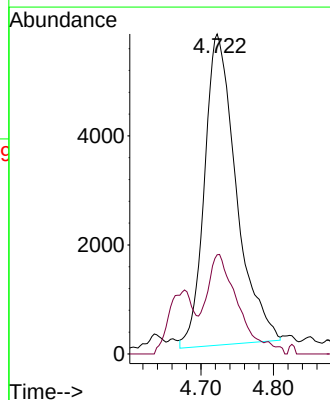
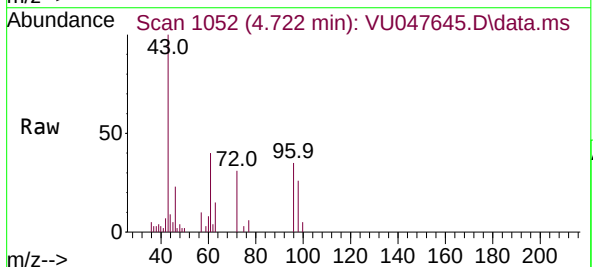
Ion	Ratio	Lower	Upper
96	100		
61	119.7	80.7	149.9
68	0.0	0.0	0.0

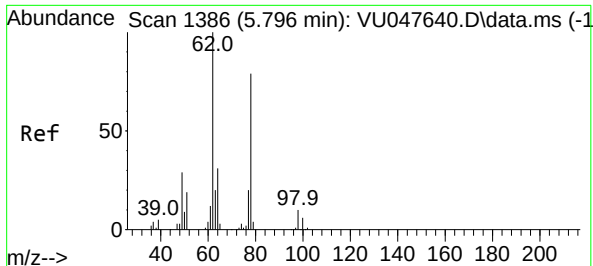


#22
 2-Butanone
 Concen: 22.277 ug/L
 RT: 4.722 min Scan# 1052
 Delta R.T. 0.006 min
 Lab File: VU047645.D
 Acq: 24 Mar 2022 20:23

Tgt Ion: 43 Resp: 17350

Ion	Ratio	Lower	Upper
43	100		
72	23.9	16.0	47.9

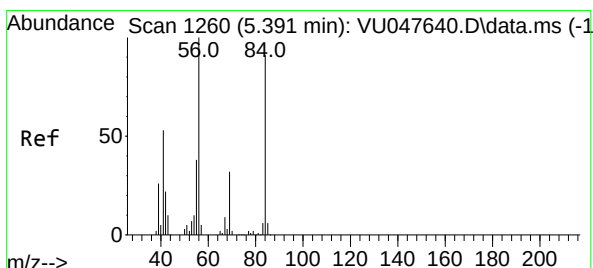
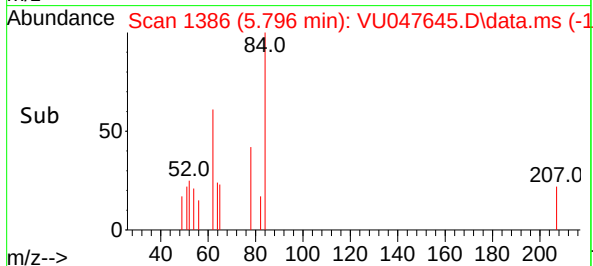
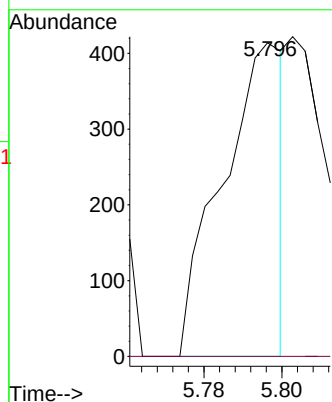
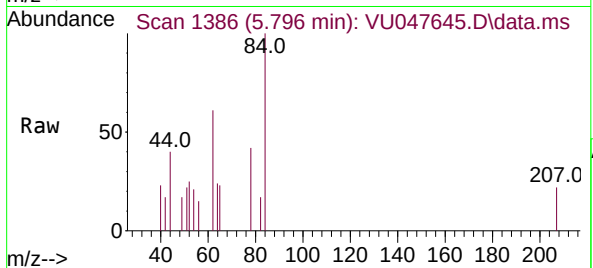




#27
1,2-Dichloroethane
Concen: 0.403 ug/L
RT: 5.796 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

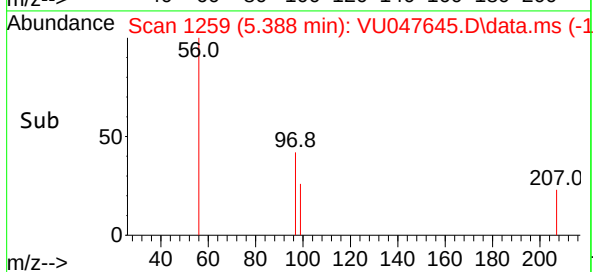
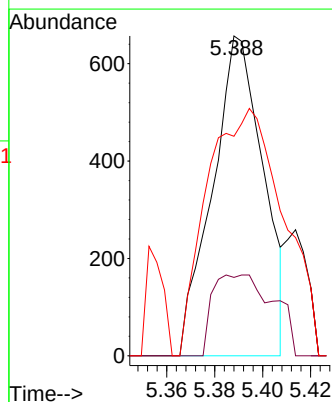
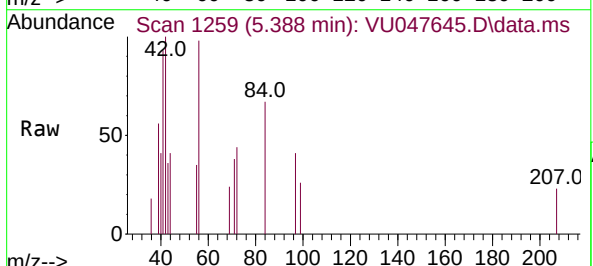
Instrument :
MSVOA_U
ClientSampleId :

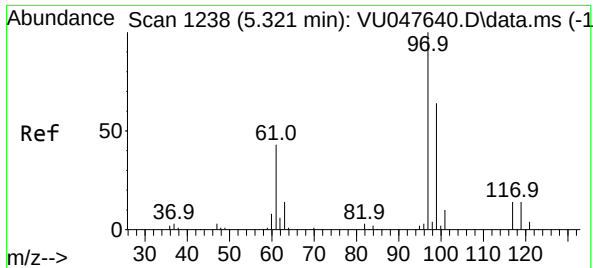
Tgt Ion: 62 Resp: 446
Ion Ratio Lower Upper
62 100
98 0.0 7.4 11.0#



#29
Cyclohexane
Concen: 0.858 ug/L
RT: 5.388 min Scan# 1259
Delta R.T. -0.003 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

Tgt Ion: 56 Resp: 966
Ion Ratio Lower Upper
56 100
69 12.2 25.4 38.2#
84 47.9 77.0 115.6#





#30

1,1,1-Trichloroethane

Concen: 169.654 ug/L

RT: 5.320 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VU047645.D

Acq: 24 Mar 2022 20:23

Instrument :

MSVOA_U

ClientSampleId :

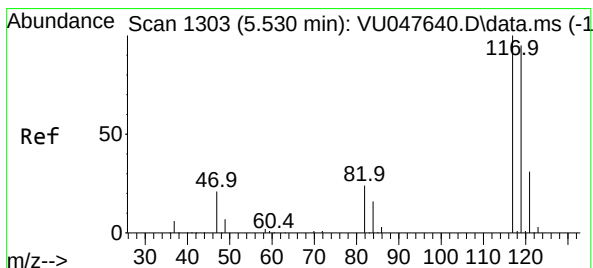
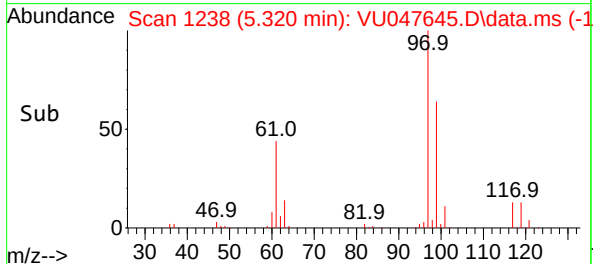
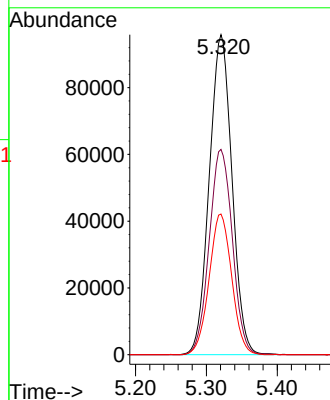
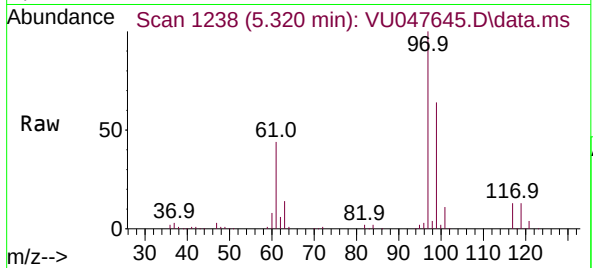
Tgt Ion: 97 Resp: 213413

Ion Ratio Lower Upper

97 100

99 65.4 51.6 77.4

61 43.7 34.2 51.4



#31

Carbon tetrachloride

Concen: 25.982 ug/L

RT: 5.320 min Scan# 1238

Delta R.T. -0.209 min

Lab File: VU047645.D

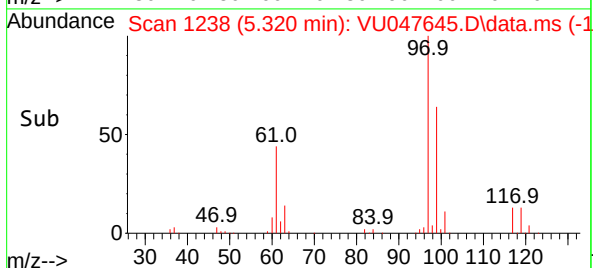
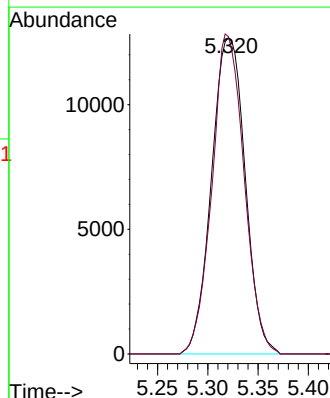
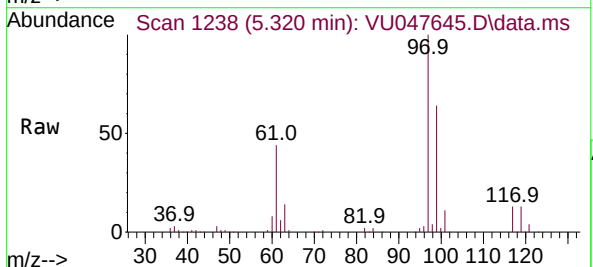
Acq: 24 Mar 2022 20:23

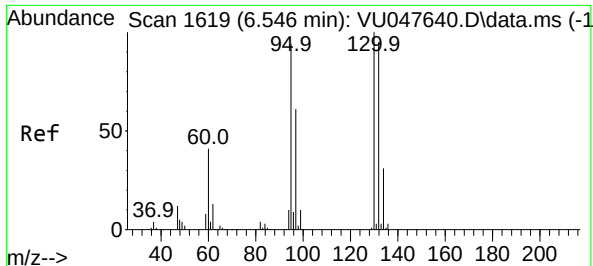
Tgt Ion: 117 Resp: 29513

Ion Ratio Lower Upper

117 100

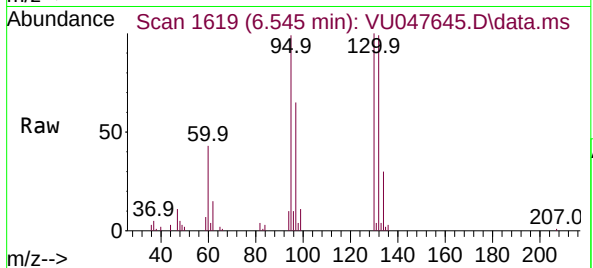
119 96.5 77.2 115.8



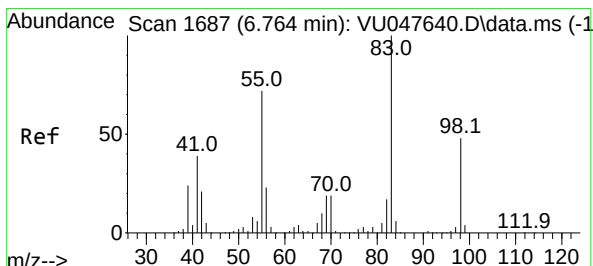
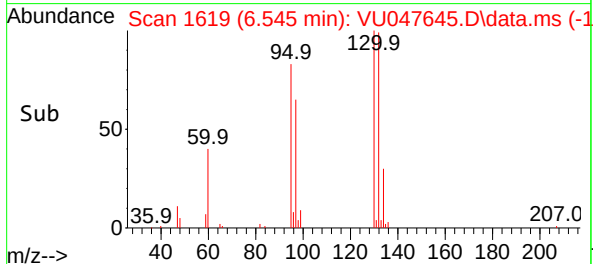
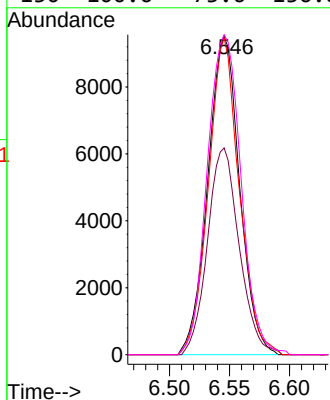


#34
Trichloroethene
Concen: 20.840 ug/L
RT: 6.545 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

Instrument :
MSVOA_U
ClientSampleId :

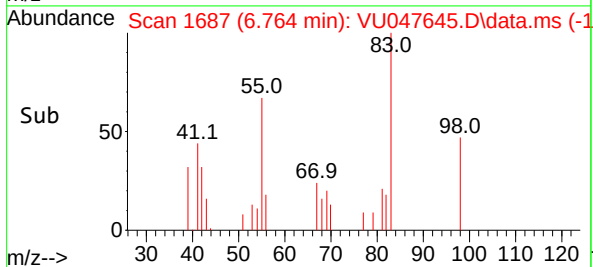
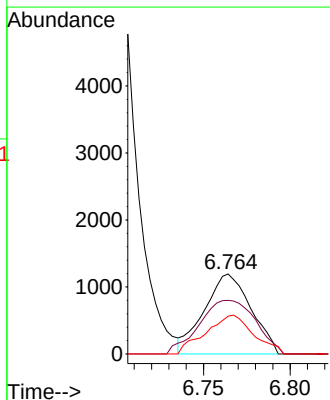
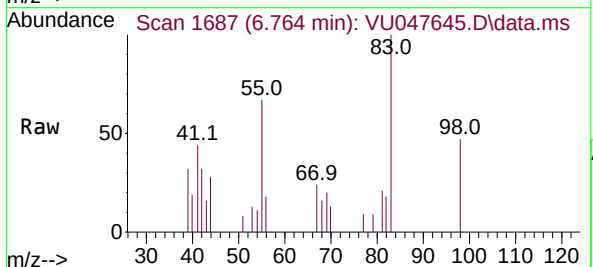


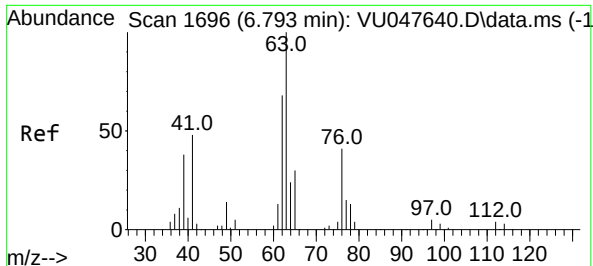
Tgt Ion:	95	Resp:	17545
Ion	Ratio	Lower	Upper
95	100		
97	65.0	44.7	82.9
132	99.5	70.4	130.8
130	100.6	73.6	136.8



#35
Methylcyclohexane
Concen: 1.750 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

Tgt Ion:	83	Resp:	2241
Ion	Ratio	Lower	Upper
83	100		
55	80.5	56.8	85.2
98	49.4	38.1	57.1





#37

1,2-Dichloropropane

Concen: 9.534 ug/L

RT: 6.693 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU047645.D

Acq: 24 Mar 2022 20:23

Instrument :

MSVOA_U

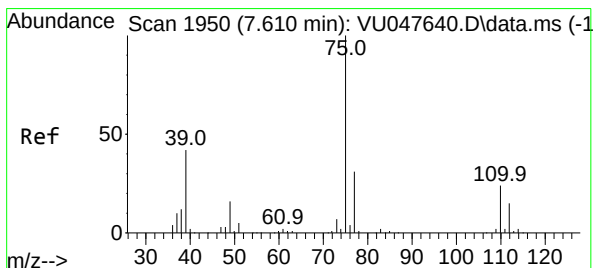
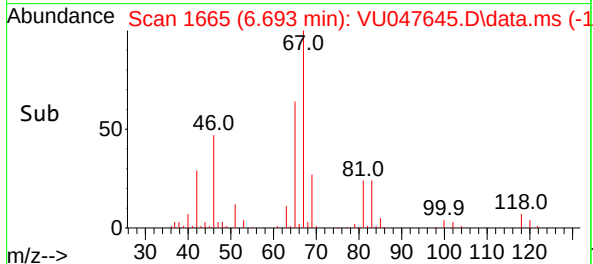
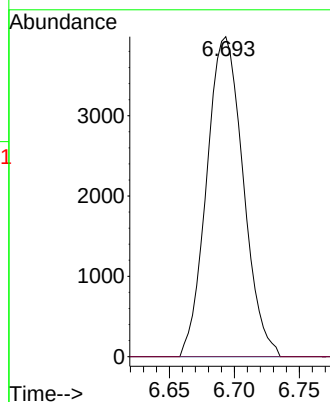
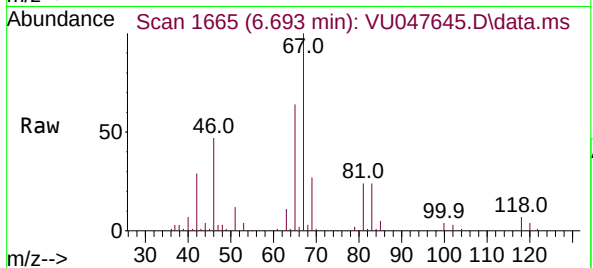
ClientSampleId :

Tgt Ion: 63 Resp: 7783

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.2#



#39

cis-1,3-Dichloropropene

Concen: 1.684 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU047645.D

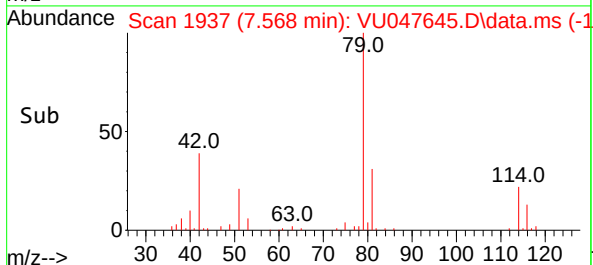
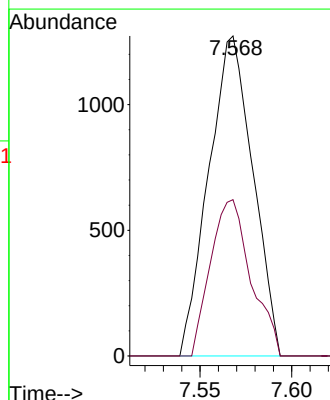
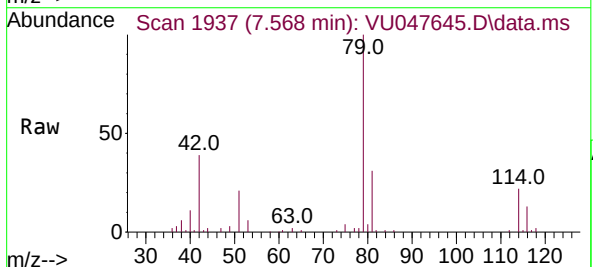
Acq: 24 Mar 2022 20:23

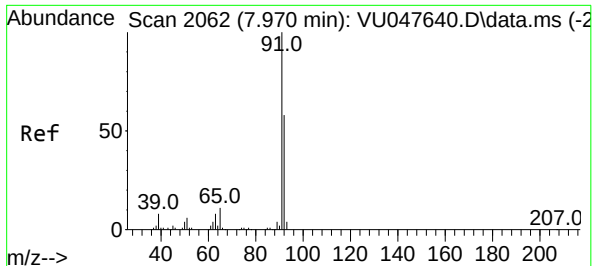
Tgt Ion: 75 Resp: 2133

Ion Ratio Lower Upper

75 100

77 48.9 21.8 40.6#

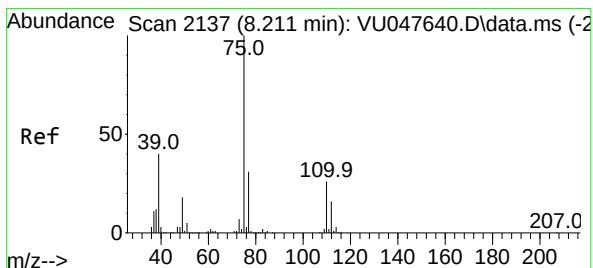
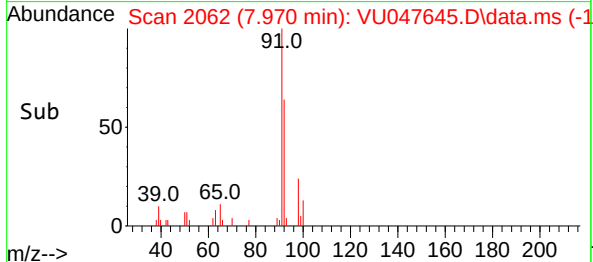
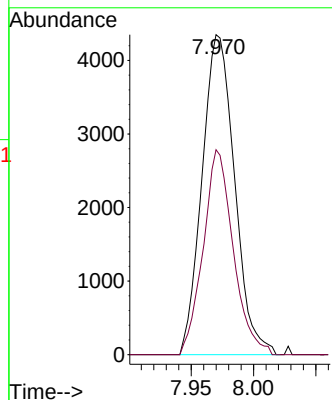
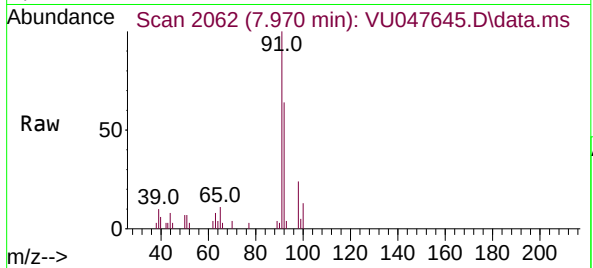




#42
Toluene
Concen: 2.241 ug/L
RT: 7.970 min Scan# 2062
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

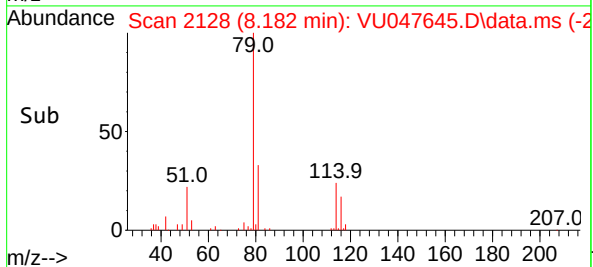
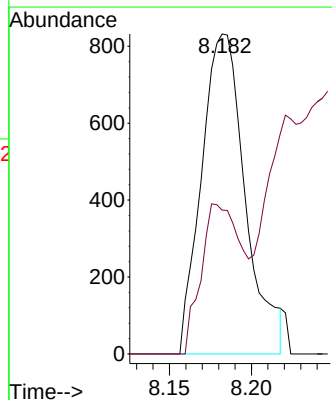
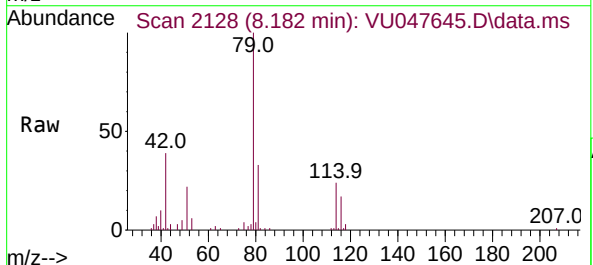
Instrument :
MSVOA_U
ClientSampleId :

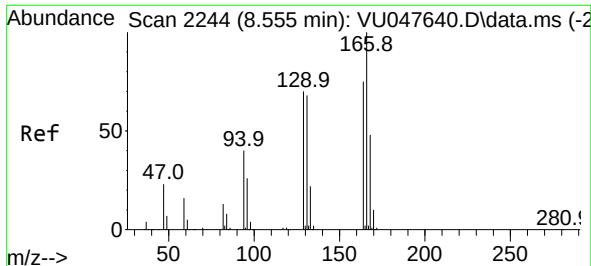
Tgt Ion: 91 Resp: 7895
Ion Ratio Lower Upper
91 100
92 64.0 40.4 75.0



#44
trans-1,3-Dichloropropene
Concen: 1.218 ug/L
RT: 8.182 min Scan# 2128
Delta R.T. -0.029 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

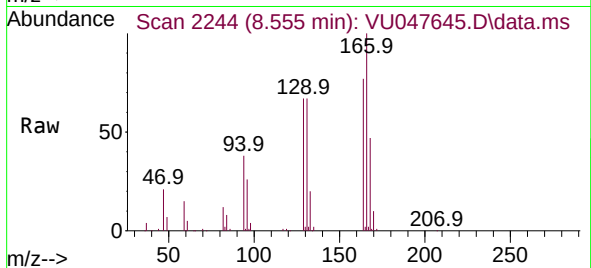
Tgt Ion: 75 Resp: 1541
Ion Ratio Lower Upper
75 100
77 45.0 22.0 40.8#



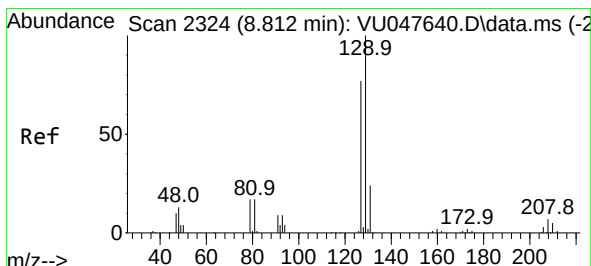
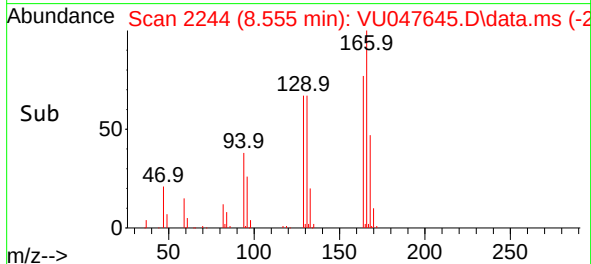
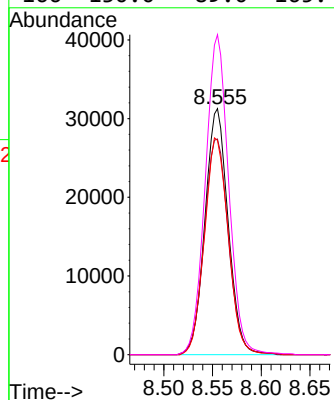


#46
Tetrachloroethene
Concen: 68.574 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

Instrument :
MSVOA_U
ClientSampleId :

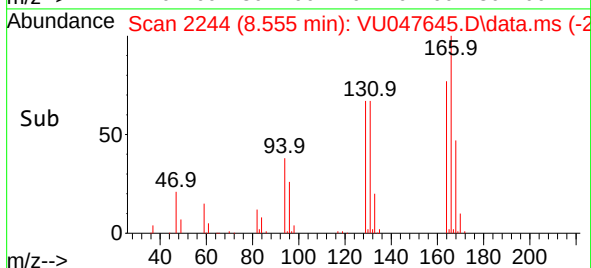
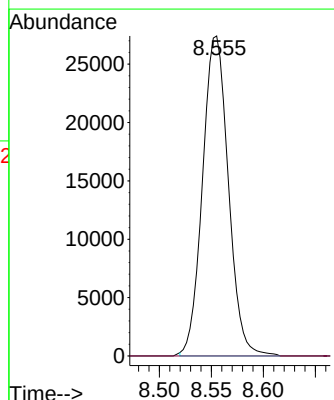
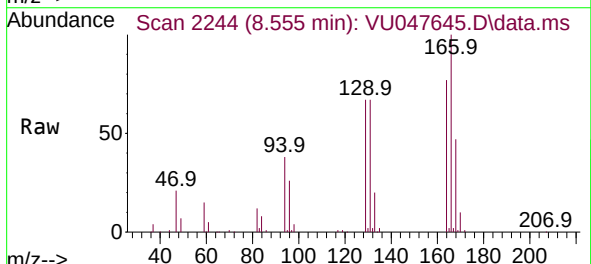


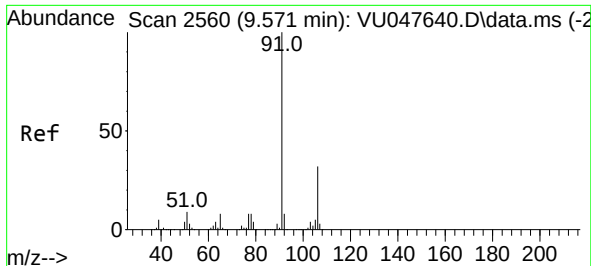
Tgt Ion:164 Resp: 51879
Ion Ratio Lower Upper
164 100
129 87.7 62.4 116.0
131 87.1 60.7 112.7
166 130.0 89.0 165.4



#49
Dibromochloromethane
Concen: 47.211 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.257 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

Tgt Ion:129 Resp: 47341
Ion Ratio Lower Upper
129 100
127 0.0 54.2 100.6





#52

Ethylbenzene

Concen: 7.092 ug/L

RT: 9.571 min Scan# 2560

Delta R.T. -0.000 min

Lab File: VU047645.D

Acq: 24 Mar 2022 20:23

Instrument :

MSVOA_U

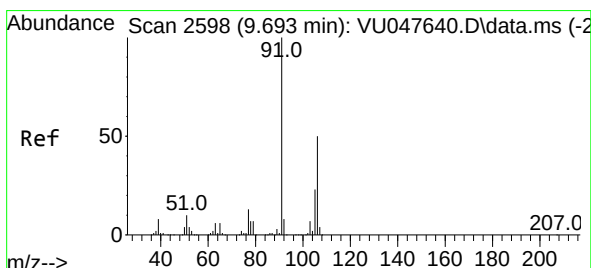
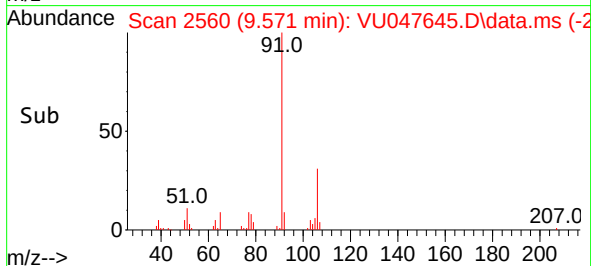
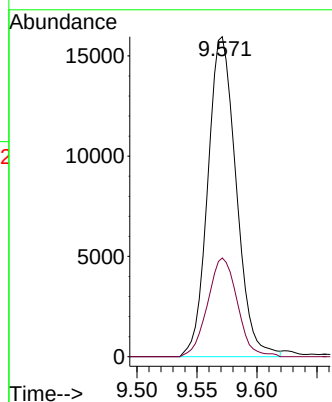
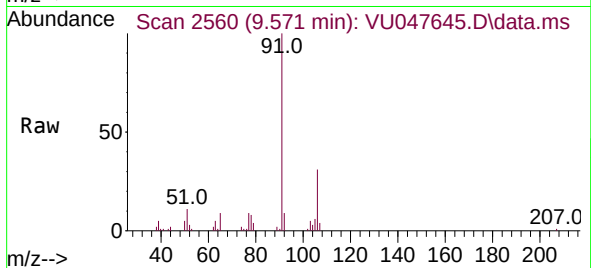
ClientSampleId :

Tgt Ion: 91 Resp: 26273

Ion Ratio Lower Upper

91 100

106 30.9 22.4 41.6



#53

m,p-Xylene

Concen: 2.968 ug/L

RT: 9.697 min Scan# 2599

Delta R.T. 0.003 min

Lab File: VU047645.D

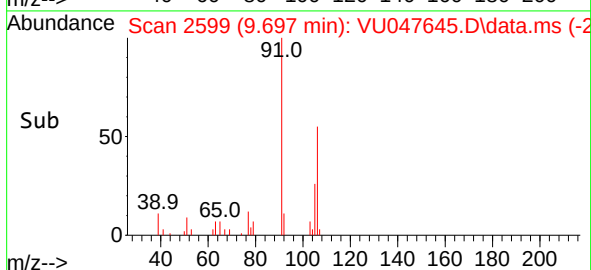
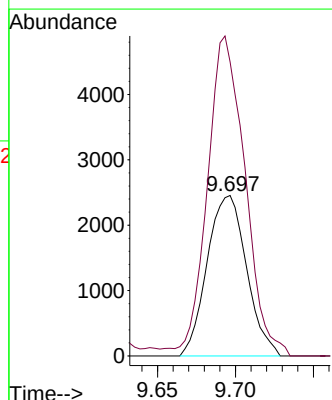
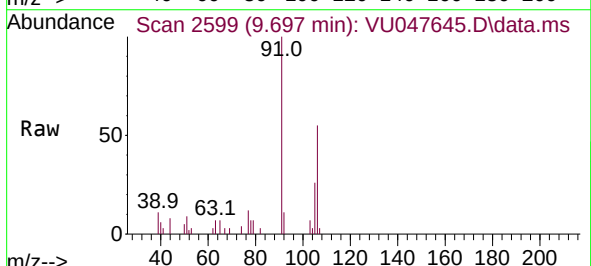
Acq: 24 Mar 2022 20:23

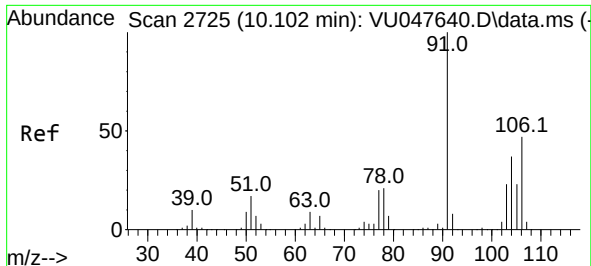
Tgt Ion:106 Resp: 4314

Ion Ratio Lower Upper

106 100

91 183.1 137.7 255.7

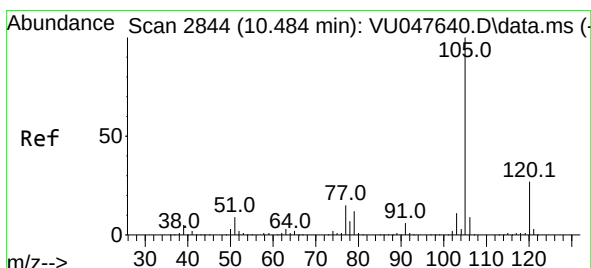
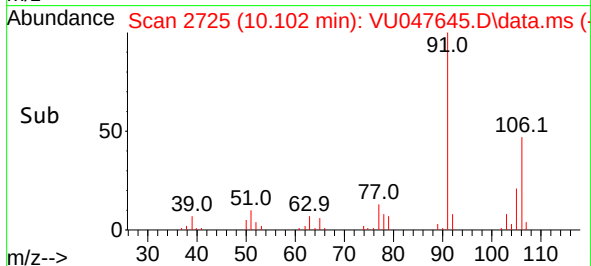
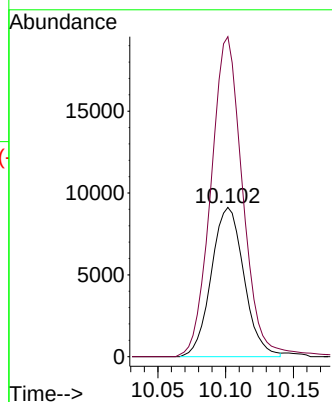
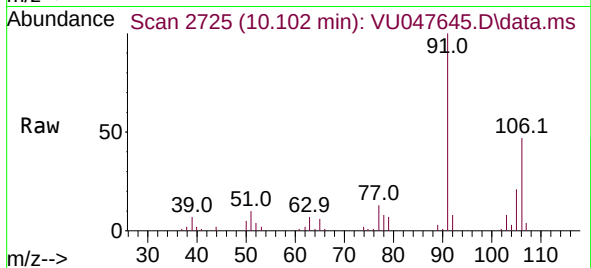




#54
o-Xylene
Concen: 10.711 ug/L
RT: 10.102 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

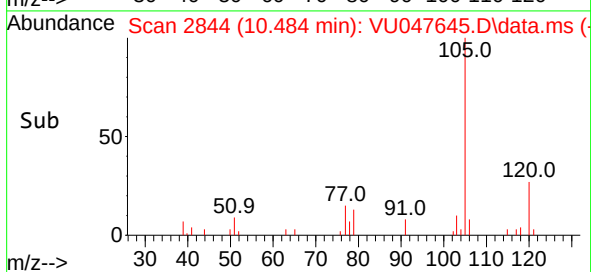
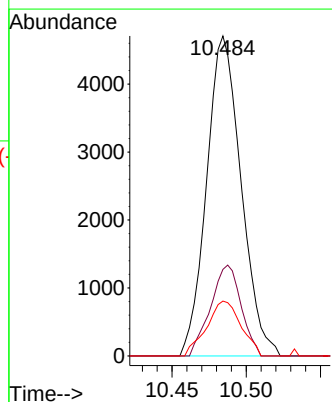
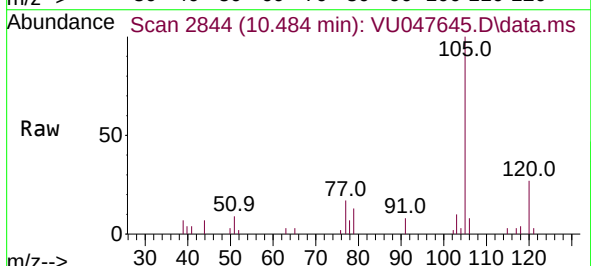
Instrument :
MSVOA_U
ClientSampleId :

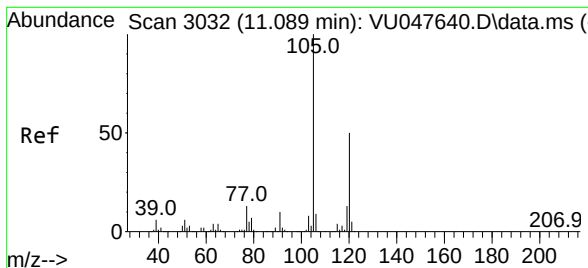
Tgt Ion:106 Resp: 15281
Ion Ratio Lower Upper
106 100
91 214.4 146.7 272.5



#61
Isopropylbenzene
Concen: 2.157 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.000 min
Lab File: VU047645.D
Acq: 24 Mar 2022 20:23

Tgt Ion:105 Resp: 7596
Ion Ratio Lower Upper
105 100
120 25.1 21.9 32.9
77 17.1 12.1 18.1

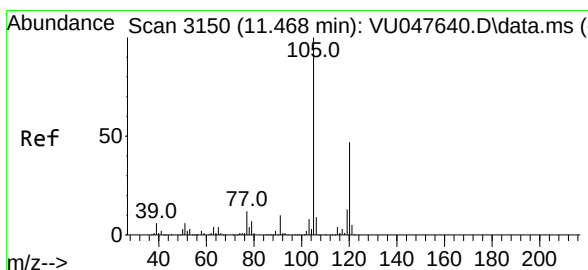
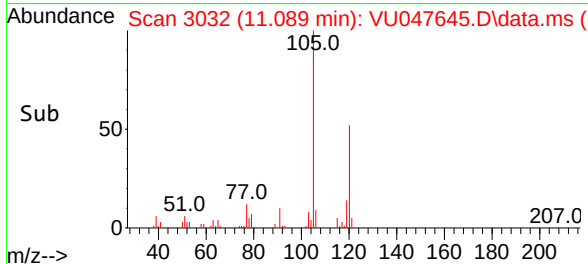
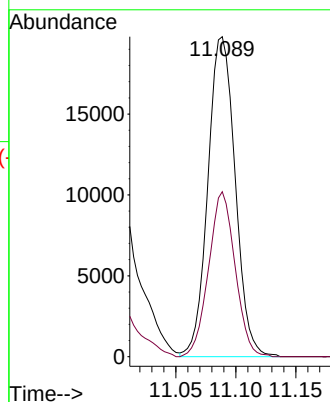
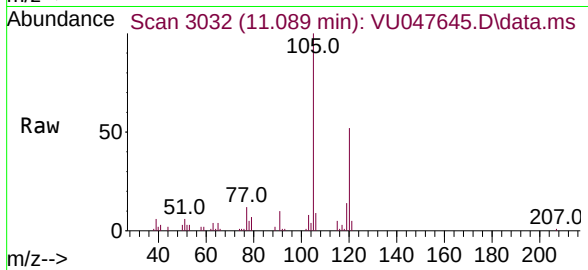




#62
 1,3,5-Trimethylbenzene
 Concen: 16.397 ug/L
 RT: 11.089 min Scan# 3032
 Delta R.T. -0.000 min
 Lab File: VU047645.D
 Acq: 24 Mar 2022 20:23

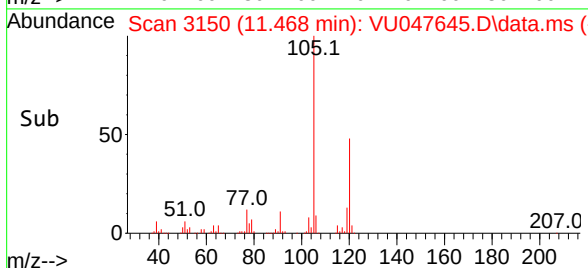
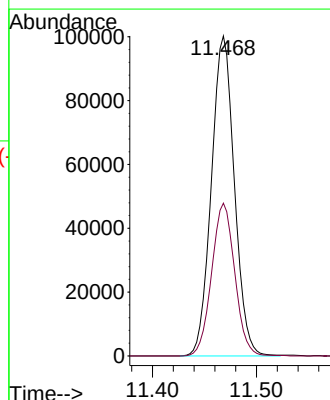
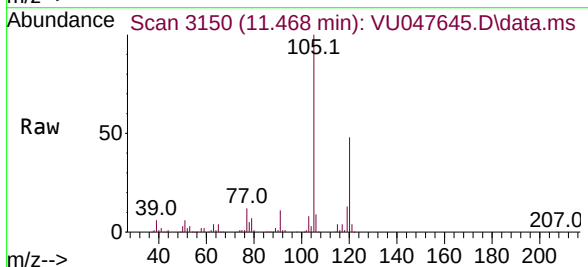
Instrument :
 MSVOA_U
 ClientSampleId :

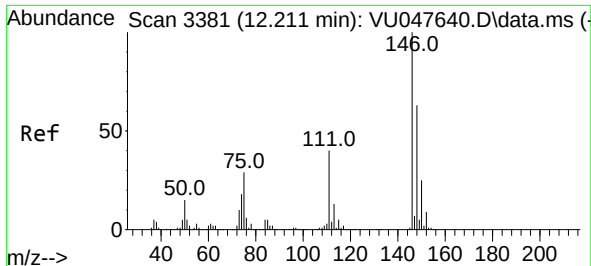
Tgt Ion:105 Resp: 31326
 Ion Ratio Lower Upper
 105 100
 120 50.0 40.8 61.2



#63
 1,2,4-Trimethylbenzene
 Concen: 53.109 ug/L
 RT: 11.468 min Scan# 3150
 Delta R.T. -0.000 min
 Lab File: VU047645.D
 Acq: 24 Mar 2022 20:23

Tgt Ion:105 Resp: 154116
 Ion Ratio Lower Upper
 105 100
 120 47.8 37.6 56.4





#67

1,2-Dichlorobenzene

Concen: 2.341 ug/L

RT: 12.214 min Scan# 3381

Delta R.T. 0.003 min

Lab File: VU047645.D

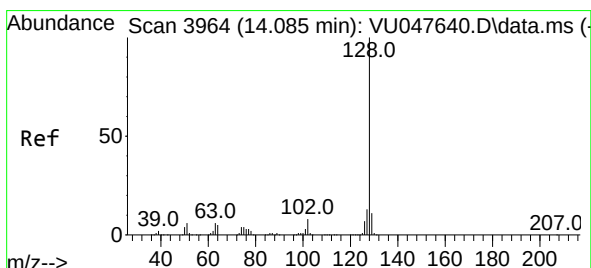
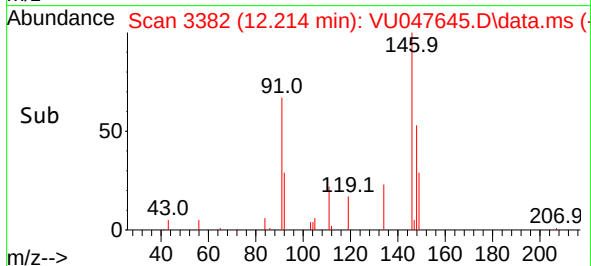
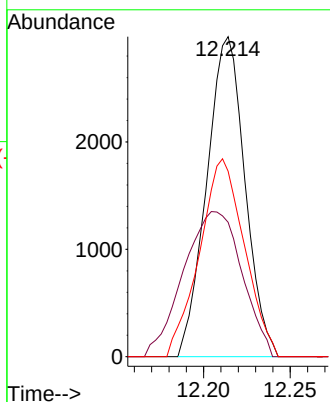
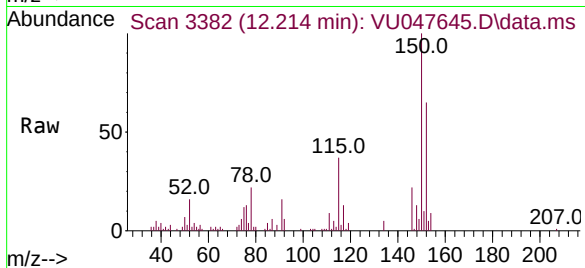
Acq: 24 Mar 2022 20:23

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:146	Resp:	4584
Ion Ratio	Lower	Upper
146	100	
111	42.0	31.7 47.5
148	57.9	51.4 77.2



#71

Naphthalene

Concen: 3.836 ug/L

RT: 14.089 min Scan# 3965

Delta R.T. 0.003 min

Lab File: VU047645.D

Acq: 24 Mar 2022 20:23

Tgt Ion:128	Resp:	15921
Ion Ratio	Lower	Upper
128	100	
127	12.1	10.2 15.2
129	0.0	8.8 13.2

