

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU063021\
 Data File : VU044264.D
 Acq On : 30 Jun 2021 16:47
 Operator : SY/MD
 Sample : M2905-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 01 02:39:04 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR062121WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jul 01 02:36:13 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.256	114	158066	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	150603	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	86294	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	33428	3.906	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.200%
7) Chloroethane-d5	1.916	69	38324	4.548	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.000%
11) 1,1-Dichloroethene-d2	2.575	65	18392	4.187	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.800%
20) 2-Butanone-d5	4.649	46	154630	49.066	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.140%
24) Chloroform-d	5.073	84	86292	4.479	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.600%
26) 1,2-Dichloroethane-d4	5.713	65	51646	4.485	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.600%
32) Benzene-d6	5.735	84	173689	4.643	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.800%
36) 1,2-Dichloropropane-d6	6.700	67	57352	4.731	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.600%
41) Toluene-d8	7.906	98	162948	4.695	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.800%
43) trans-1,3-Dichloroprop...	8.189	79	24545	4.365	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.400%
46) 2-Hexanone-d5	8.645	63	129989	48.539	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.080%
56) 1,1,2,2-Tetrachloroeth...	10.764	84	49706	4.612	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.200%
66) 1,2-Dichlorobenzene-d4	12.201	152	70065	4.928	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.523	50	949	0.088	ug/L	94
6) Bromomethane	1.864	94	526	0.073	ug/L	89
8) Chloroethane	1.938	64	84889	11.169	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.588	101	177707	18.978	ug/L	96
12) 1,1-Dichloroethene	2.581	96	1077	0.118	ug/L #	1
13) Acetone	2.655	43	2385	1.693	ug/L	95
16) Methylene chloride	3.054	84	5292	0.430	ug/L	99
17) Methyl tert-butyl Ether	3.375	73	425515	15.721	ug/L	100
25) Chloroform	5.099	83	3033	0.153	ug/L	85
27) 1,2-Dichloroethane	5.784	62	1634	0.124	ug/L #	76
31) Carbon tetrachloride	5.533	117	48015	3.321	ug/L	100
33) Benzene	5.784	78	165153	4.180	ug/L	100
34) Trichloroethene	6.549	95	169754	15.865	ug/L	94
35) Methylcyclohexane	6.700	83	13942	0.789	ug/L #	17
37) 1,2-Dichloropropane	6.800	63	42024	4.028	ug/L	99
42) Toluene	7.976	91	363663	8.358	ug/L	99
47) Tetrachloroethene	8.562	164	92598	11.706	ug/L	94
48) 2-Hexanone	8.645	43	16097	2.724	ug/L #	67
49) Dibromochloromethane	8.558	129	87260	8.754	ug/L #	11

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

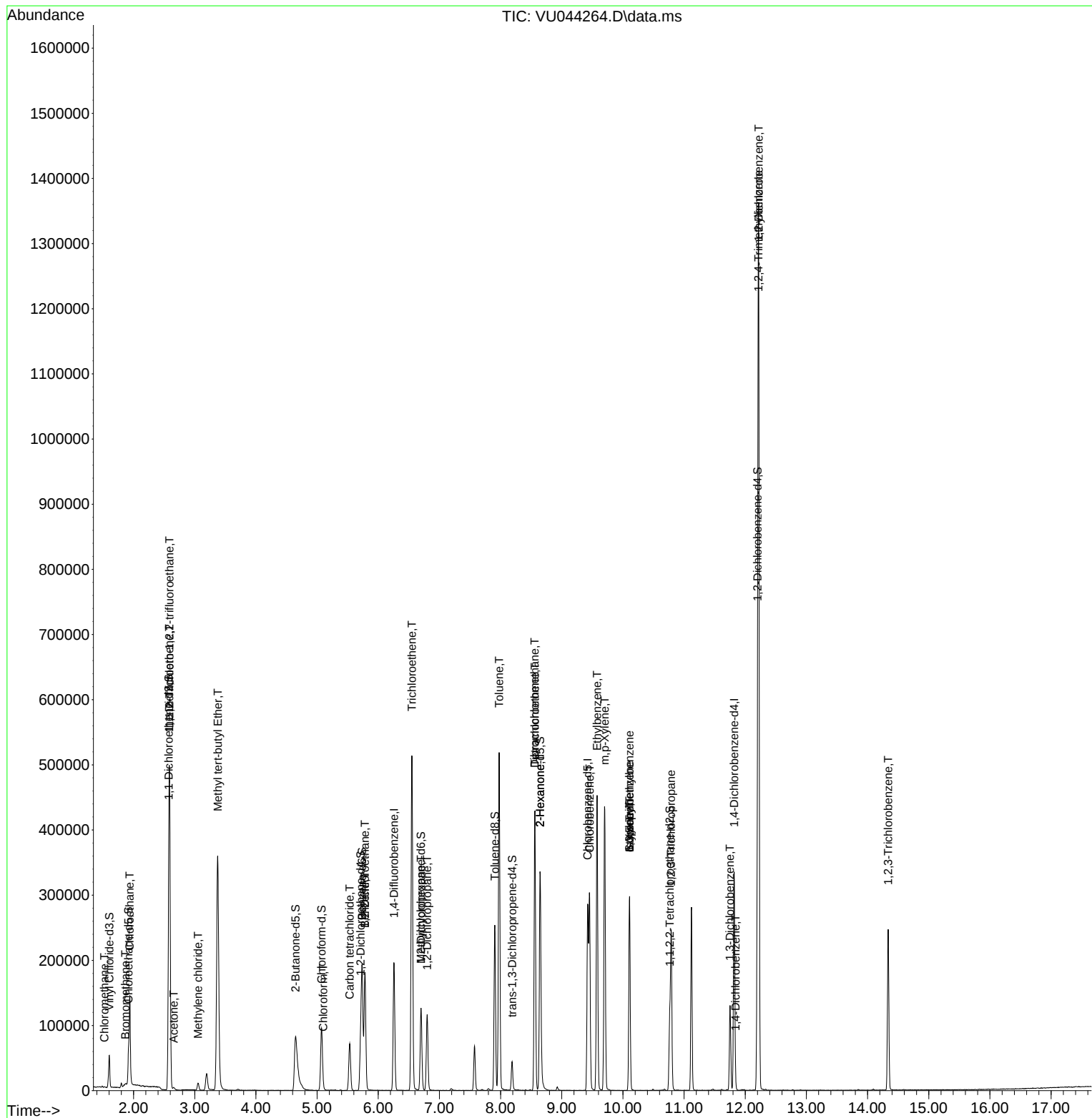
51) Chlorobenzene	9.455	112	150242	5.391	ug/L	99
52) Ethylbenzene	9.578	91	317071	6.313	ug/L	100
53) m,p-Xylene	9.703	106	125513	6.599	ug/L	97
54) o-Xylene	10.108	106	78708	4.257	ug/L	100
55) Styrene	10.108	104	4316	0.133	ug/L #	1
60) Isopropylbenzene	10.108	105	31829	0.607	ug/L #	18
61) 1,2,3-Trichloropropane	10.787	75	8309	1.067	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.108	105	31829	0.696	ug/L #	29
63) 1,2,4-Trimethylbenzene	12.217	105	39994	0.855	ug/L #	37
64) 1,3-Dichlorobenzene	11.751	146	50861	2.147	ug/L	95
65) 1,4-Dichlorobenzene	11.844	146	1945	0.081	ug/L	97
67) 1,2-Dichlorobenzene	12.221	146	165267	7.419	ug/L	99
72) 1,2,3-Trichlorobenzene	14.336	180	75111	5.689	ug/L	99

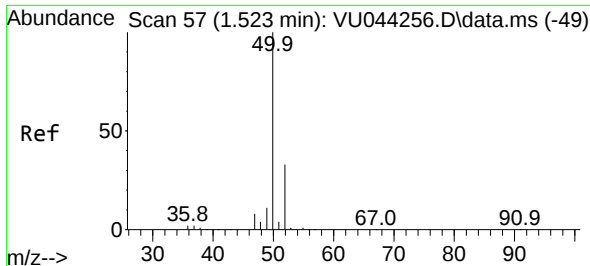
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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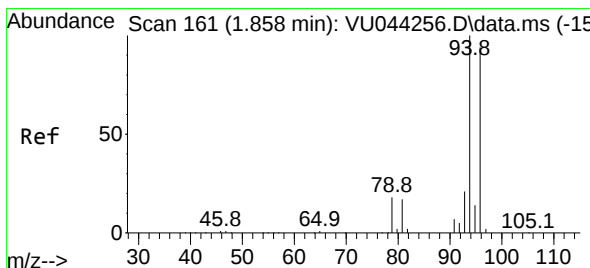
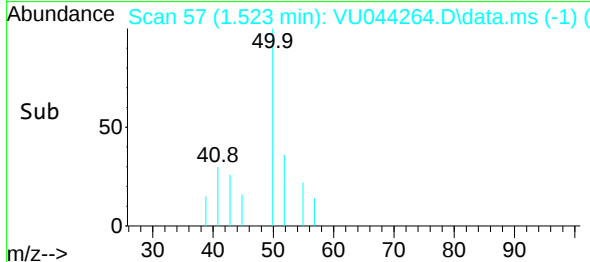
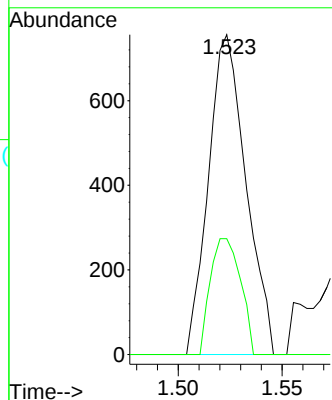
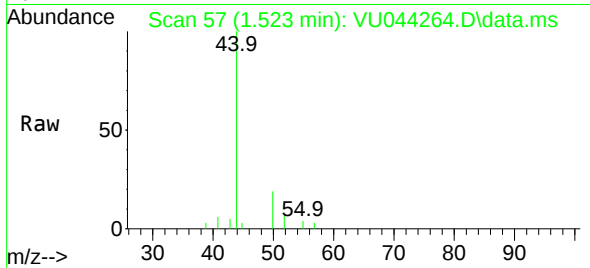




#3
Chloromethane
Concen: 0.088 ug/L
RT: 1.523 min Scan# 57
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

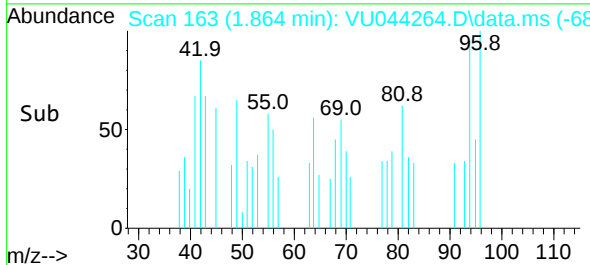
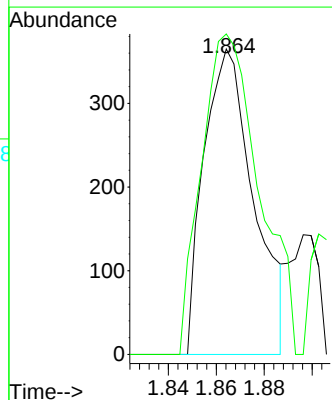
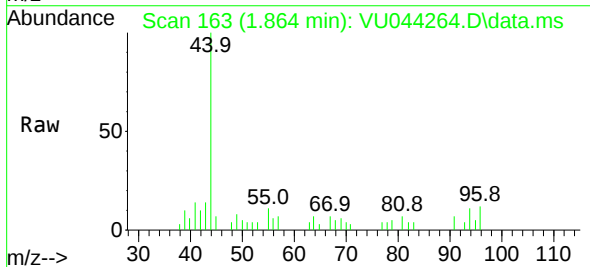
Instrument :
MSVOA_U
ClientSampled :

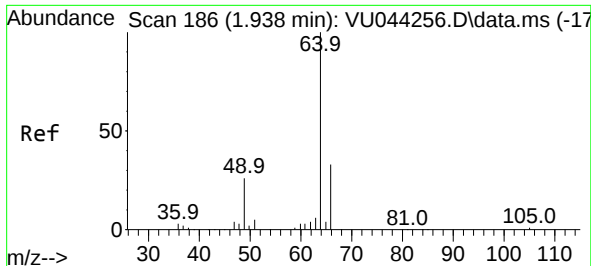
Tgt Ion: 50 Resp: 949
Ion Ratio Lower Upper
50 100
52 36.2 23.1 42.9



#6
Bromomethane
Concen: 0.073 ug/L
RT: 1.864 min Scan# 163
Delta R.T. 0.006 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Tgt Ion: 94 Resp: 526
Ion Ratio Lower Upper
94 100
96 104.9 65.8 122.2

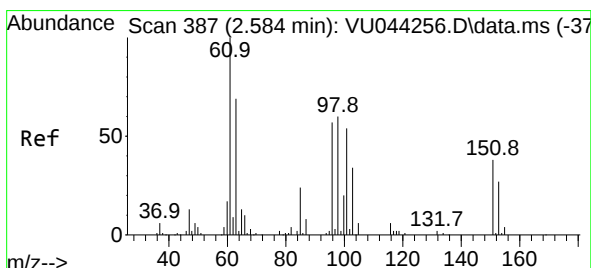
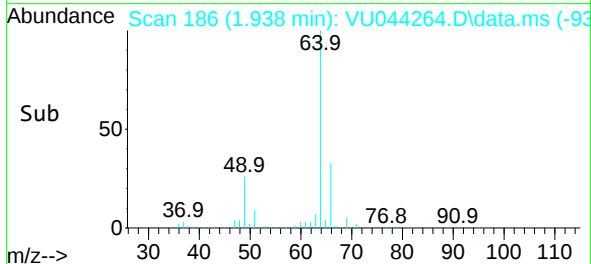
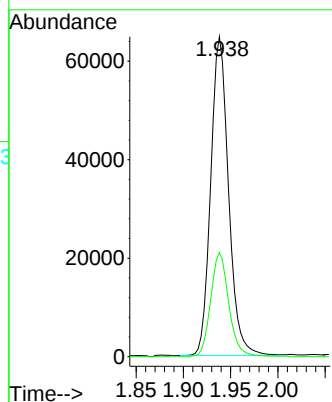
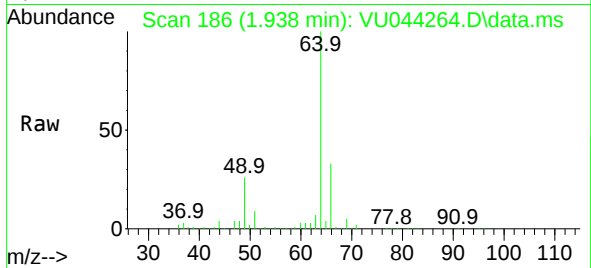




#8
Chloroethane
Concen: 11.169 ug/L
RT: 1.938 min Scan# 186
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

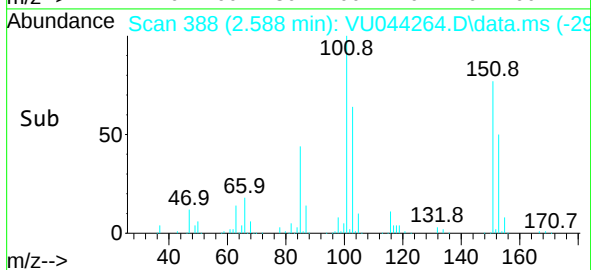
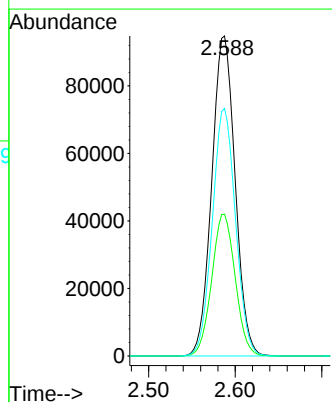
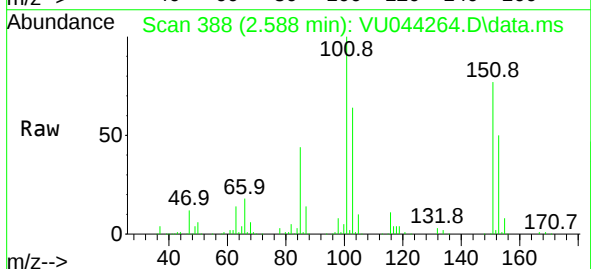
Instrument :
MSVOA_U
ClientSampled :

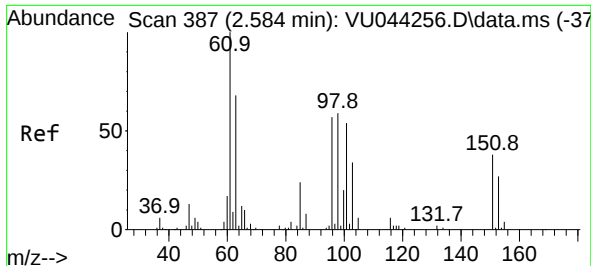
Tgt Ion: 64 Resp: 84889
Ion Ratio Lower Upper
64 100
66 32.6 22.7 42.3



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 18.978 ug/L
RT: 2.588 min Scan# 388
Delta R.T. 0.003 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Tgt Ion:101 Resp: 177707
Ion Ratio Lower Upper
101 100
85 44.4 37.0 55.4
151 77.1 58.1 87.1





#12

1,1-Dichloroethene

Concen: 0.118 ug/L

RT: 2.581 min Scan# 386

Delta R.T. -0.003 min

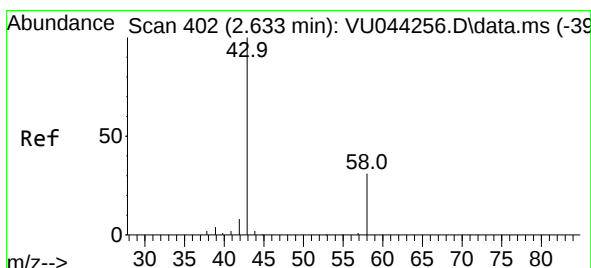
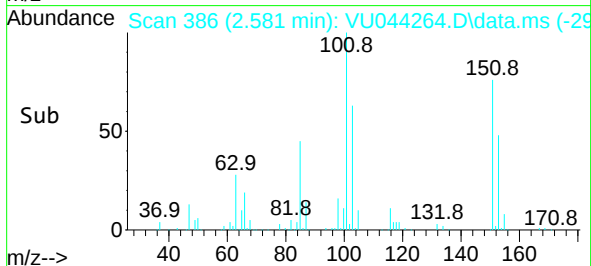
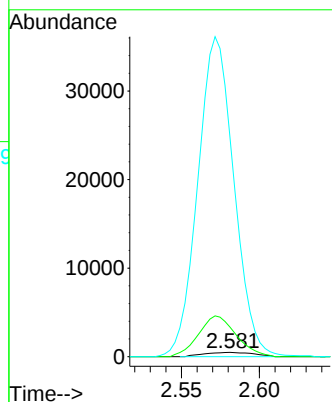
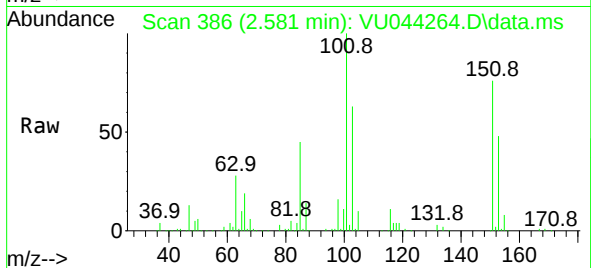
Lab File: VU044264.D

Acq: 30 Jun 2021 16:47

Tgt Ion: 96 Resp: 1077

Ion	Ratio	Lower	Upper
96	100		
61	696.7	128.6	238.8#
63	5154.3	84.3	156.5#

Instrument :
MSVOA_U
ClientSampleId :



#13

Acetone

Concen: 1.693 ug/L

RT: 2.655 min Scan# 409

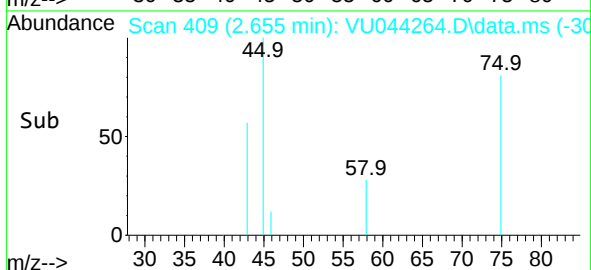
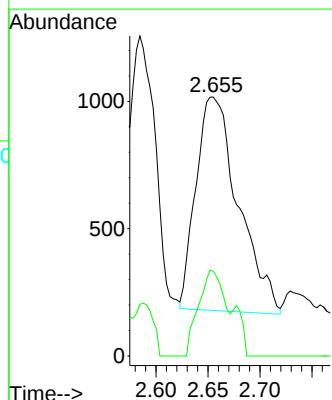
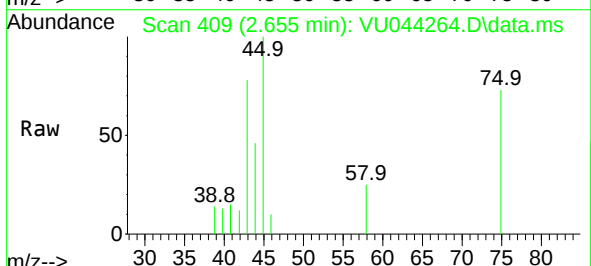
Delta R.T. 0.022 min

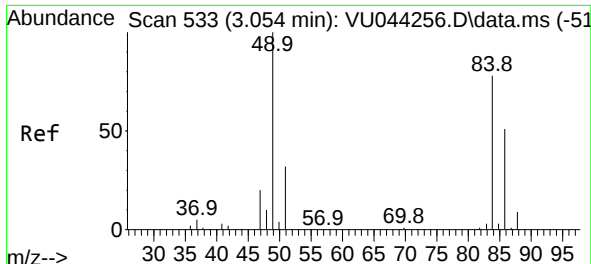
Lab File: VU044264.D

Acq: 30 Jun 2021 16:47

Tgt Ion: 43 Resp: 2385

Ion	Ratio	Lower	Upper
43	100		
58	24.6	0.0	53.8

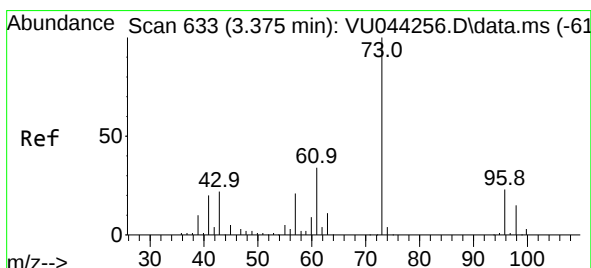
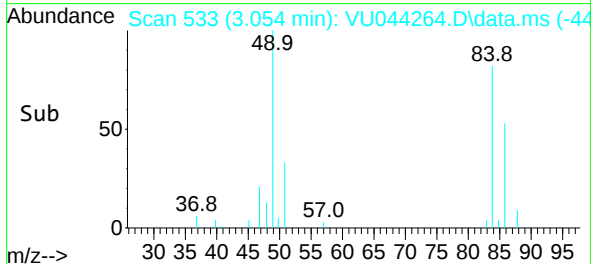
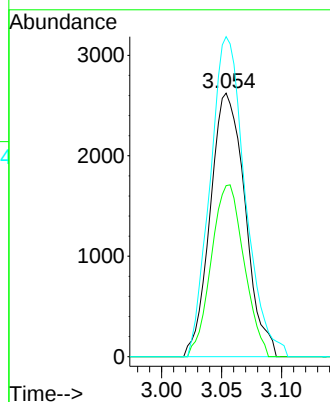
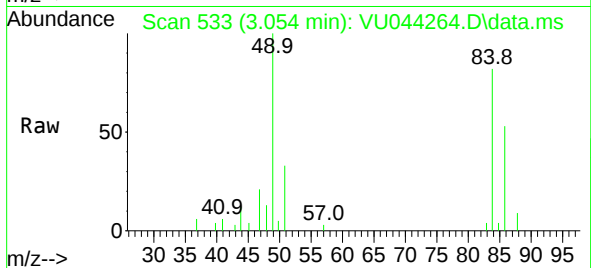




#16
Methylene chloride
Concen: 0.430 ug/L
RT: 3.054 min Scan# 533
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

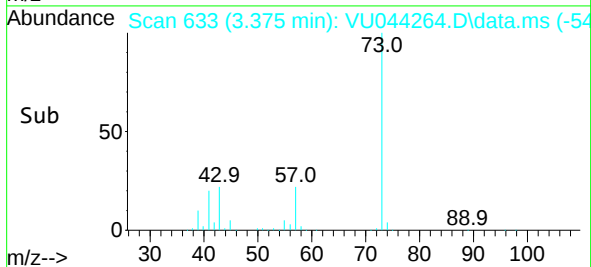
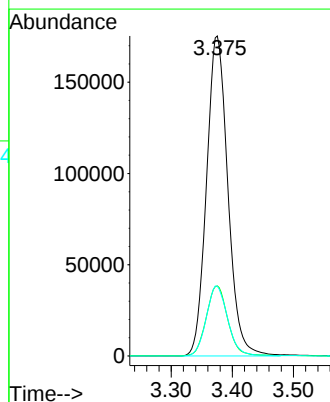
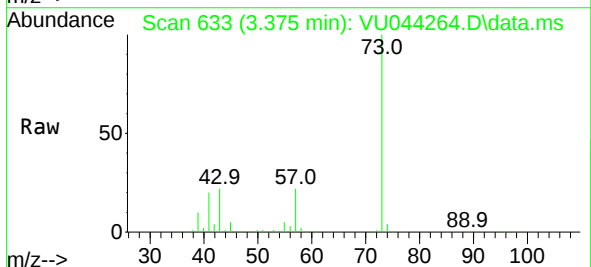
Instrument :
MSVOA_U
ClientSampled :

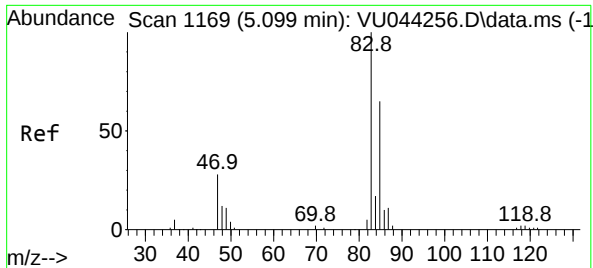
Tgt Ion: 84 Resp: 5292
Ion Ratio Lower Upper
84 100
86 64.9 46.1 85.5
49 127.6 88.4 164.2



#17
Methyl tert-butyl Ether
Concen: 15.721 ug/L
RT: 3.375 min Scan# 633
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Tgt Ion: 73 Resp: 425515
Ion Ratio Lower Upper
73 100
43 21.9 17.6 26.4
57 22.0 17.8 26.8





#25

Chloroform

Concen: 0.153 ug/L

RT: 5.099 min Scan# 1169

Delta R.T. 0.000 min

Lab File: VU044264.D

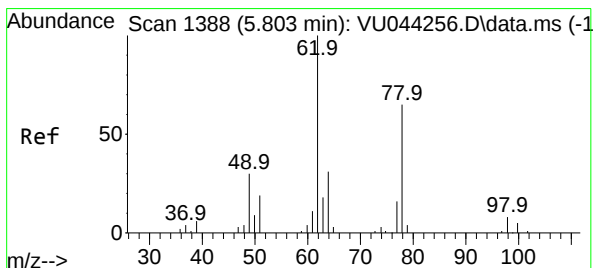
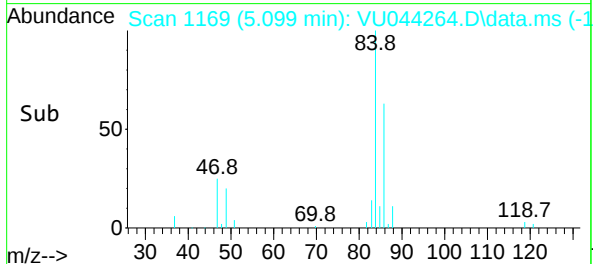
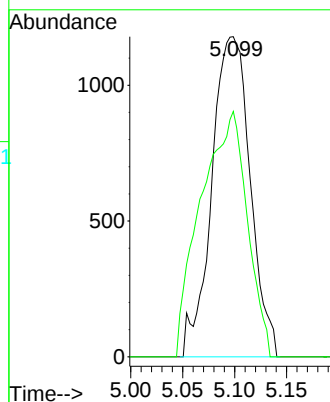
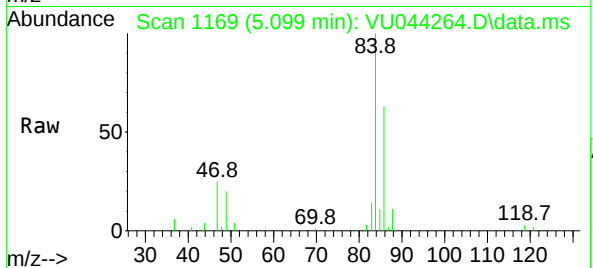
Acq: 30 Jun 2021 16:47

Tgt Ion: 83 Resp: 3033

Ion Ratio Lower Upper

83 100

85 76.7 45.2 84.0



#27

1,2-Dichloroethane

Concen: 0.124 ug/L

RT: 5.784 min Scan# 1382

Delta R.T. -0.019 min

Lab File: VU044264.D

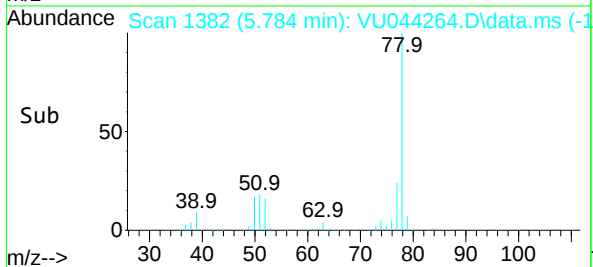
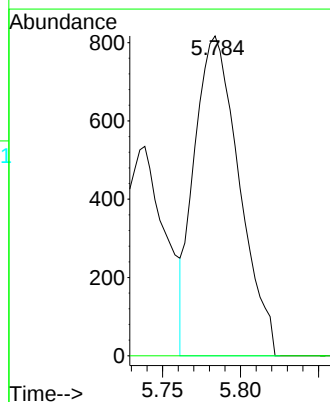
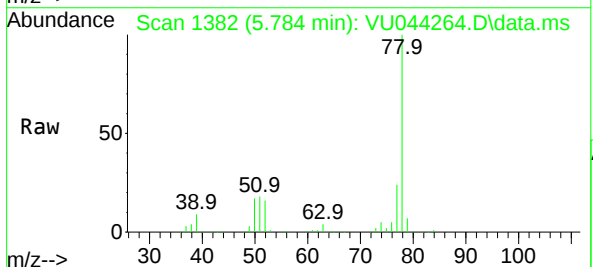
Acq: 30 Jun 2021 16:47

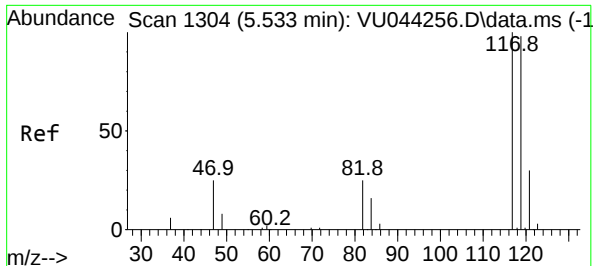
Tgt Ion: 62 Resp: 1634

Ion Ratio Lower Upper

62 100

98 0.0 6.8 10.2#

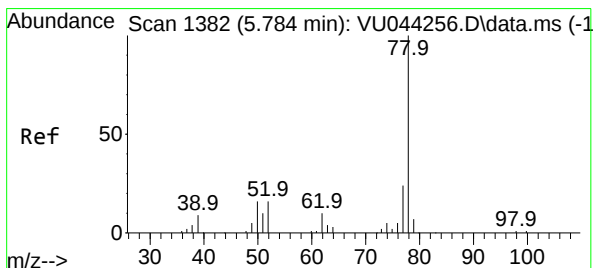
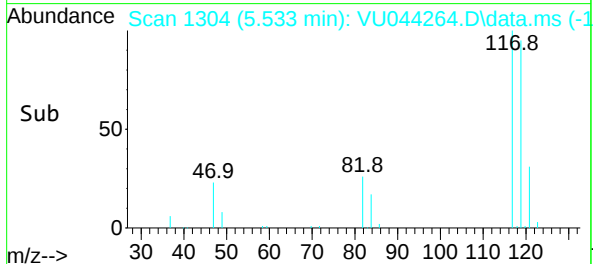
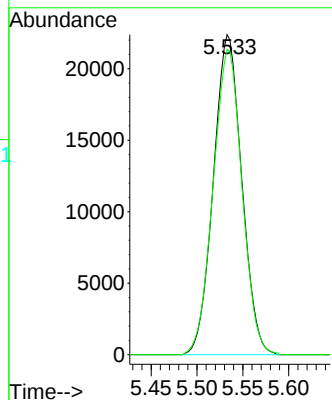
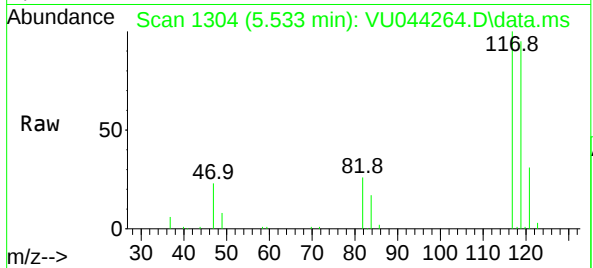




#31
Carbon tetrachloride
Concen: 3.321 ug/L
RT: 5.533 min Scan# 1304
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

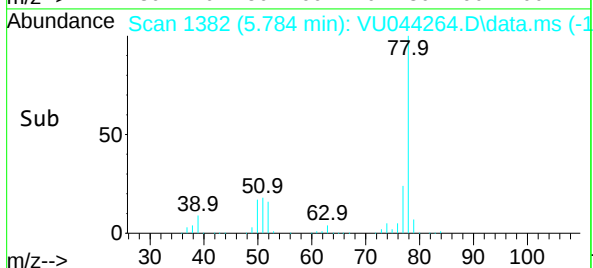
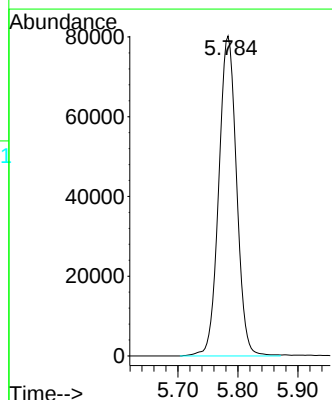
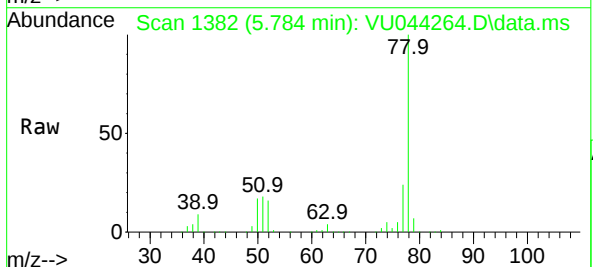
Instrument :
MSVOA_U
ClientSampled :

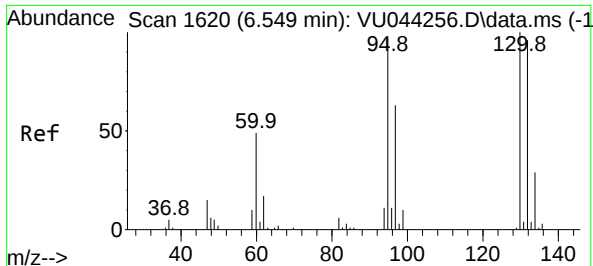
Tgt Ion:117 Resp: 48015
Ion Ratio Lower Upper
117 100
119 97.5 77.7 116.5



#33
Benzene
Concen: 4.180 ug/L
RT: 5.784 min Scan# 1382
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Tgt Ion: 78 Resp: 165153

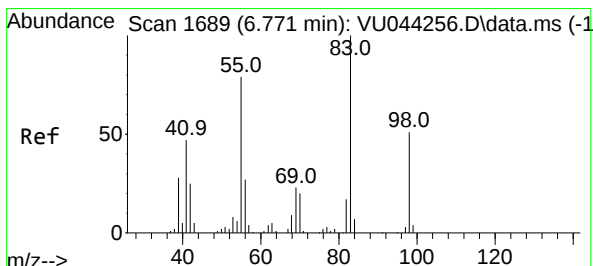
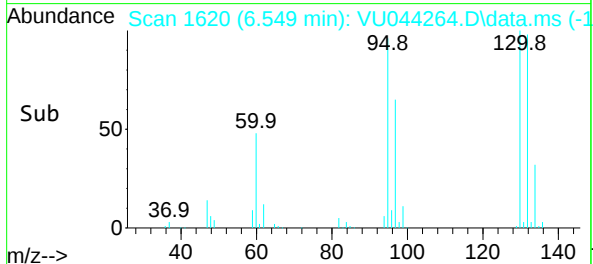
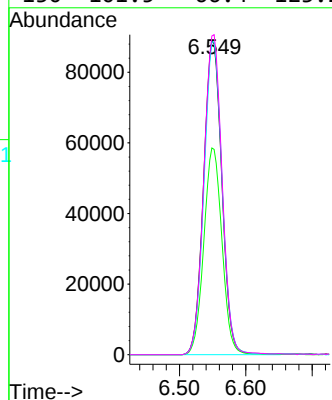
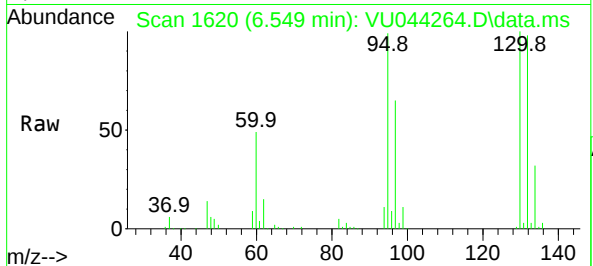




#34
Trichloroethene
Concen: 15.865 ug/L
RT: 6.549 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

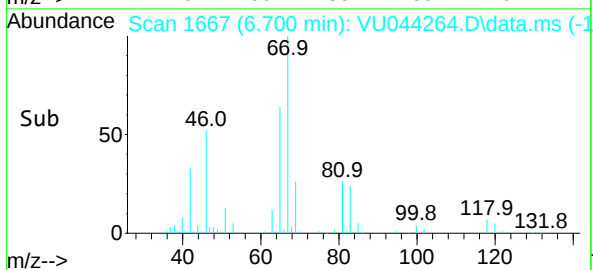
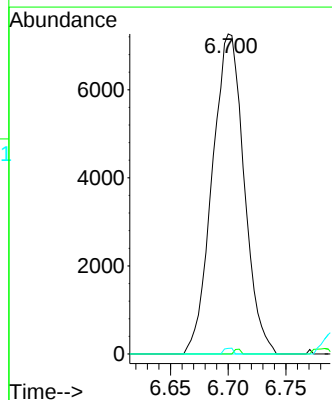
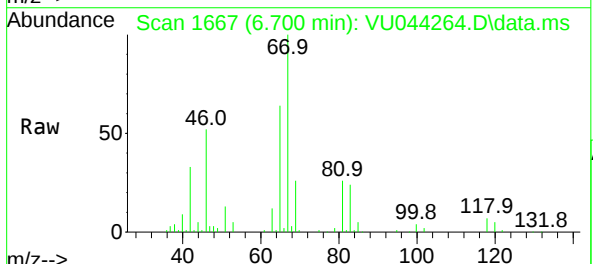
Instrument :
MSVOA_U
ClientSampled :

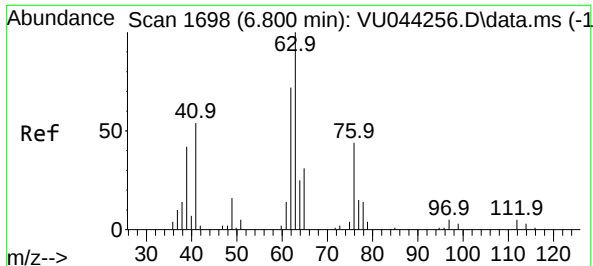
Tgt Ion: 95 Resp: 169754
Ion Ratio Lower Upper
95 100
97 65.8 44.3 82.3
132 99.6 64.3 119.5
130 101.5 66.4 123.2



#35
Methylcyclohexane
Concen: 0.789 ug/L
RT: 6.700 min Scan# 1667
Delta R.T. -0.071 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Tgt Ion: 83 Resp: 13942
Ion Ratio Lower Upper
83 100
55 0.3 63.4 95.0#
98 0.0 39.4 59.0#



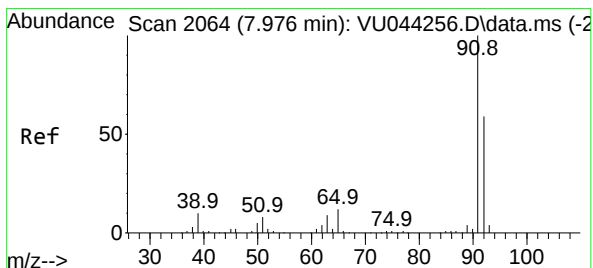
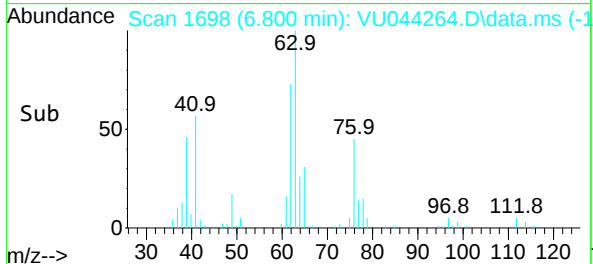
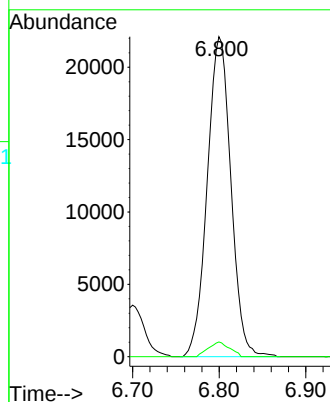
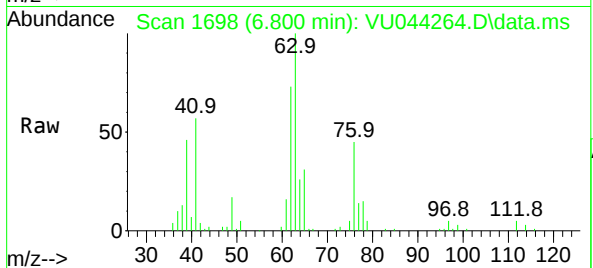


#37

1,2-Dichloropropane
Concen: 4.028 ug/L
RT: 6.800 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Instrument :
MSVOA_U
ClientSampled :

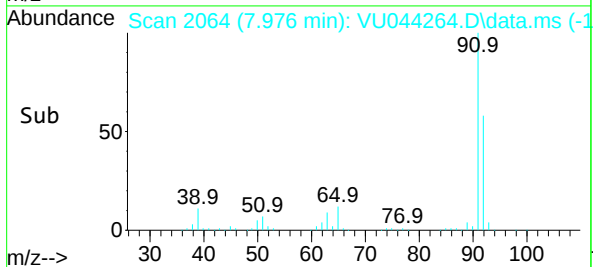
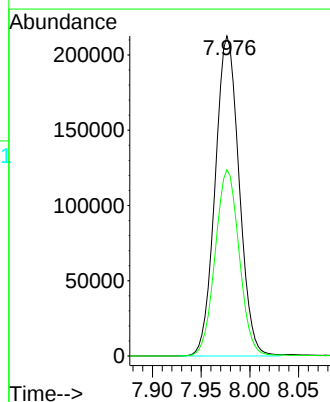
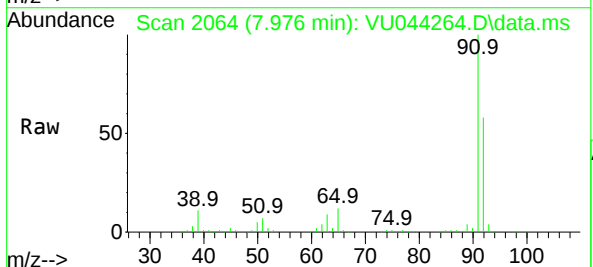
Tgt Ion: 63 Resp: 42024
Ion Ratio Lower Upper
63 100
112 4.1 3.5 5.3

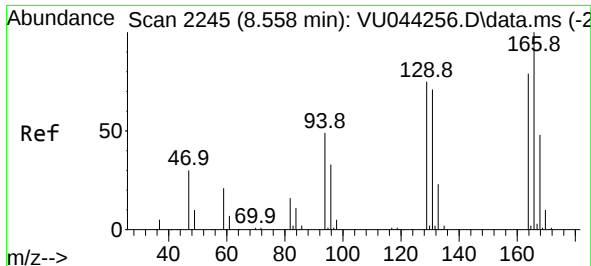


#42

Toluene
Concen: 8.358 ug/L
RT: 7.976 min Scan# 2064
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Tgt Ion: 91 Resp: 363663
Ion Ratio Lower Upper
91 100
92 58.2 41.2 76.6





#47

Tetrachloroethene

Concen: 11.706 ug/L

RT: 8.562 min Scan# 2246

Delta R.T. 0.003 min

Lab File: VU044264.D

Acq: 30 Jun 2021 16:47

Tgt Ion:164 Resp: 92598

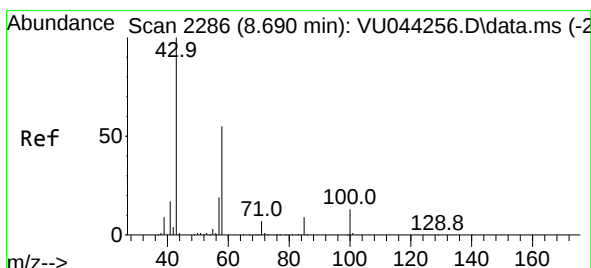
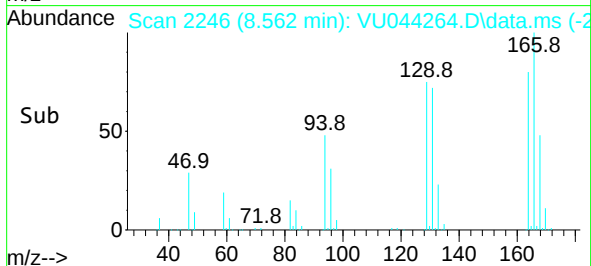
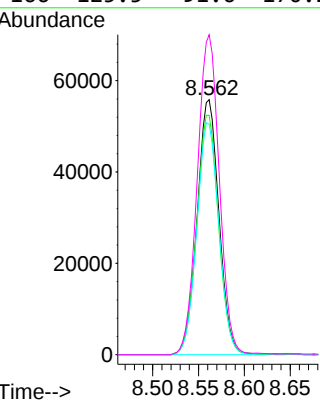
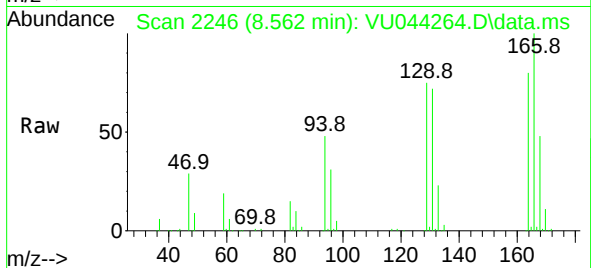
Ion Ratio Lower Upper

164 100

129 93.9 71.8 133.4

131 90.5 66.4 123.2

166 125.5 91.6 170.2



#48

2-Hexanone

Concen: 2.724 ug/L

RT: 8.645 min Scan# 2272

Delta R.T. -0.045 min

Lab File: VU044264.D

Acq: 30 Jun 2021 16:47

Tgt Ion: 43 Resp: 16097

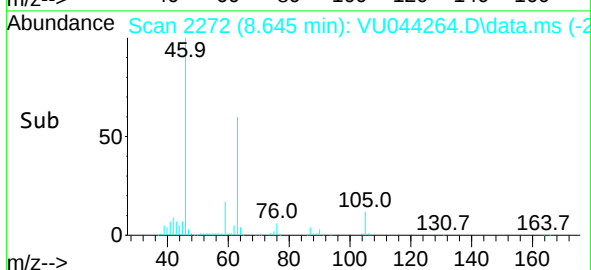
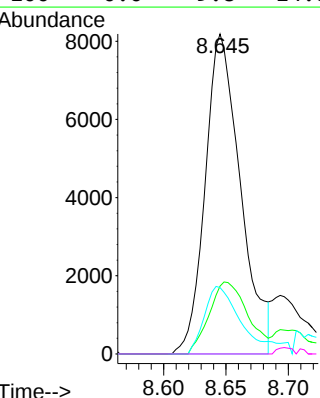
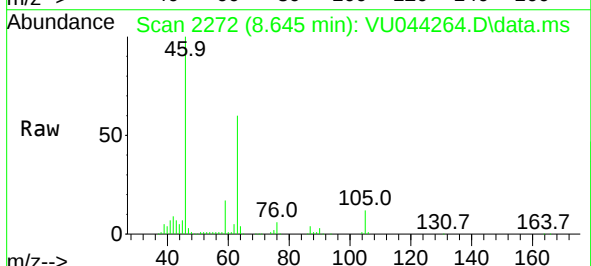
Ion Ratio Lower Upper

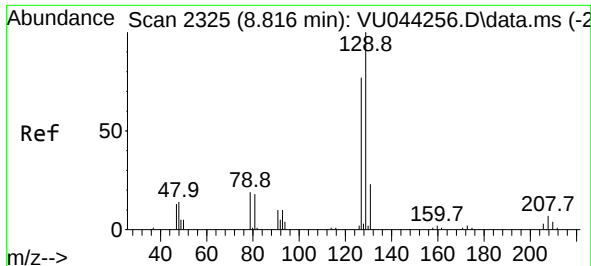
43 100

58 24.7 44.7 67.1#

57 22.8 15.7 23.5

100 0.0 9.8 14.8#





#49

Dibromochloromethane

Concen: 8.754 ug/L

RT: 8.558 min Scan# 2245

Delta R.T. -0.257 min

Lab File: VU044264.D

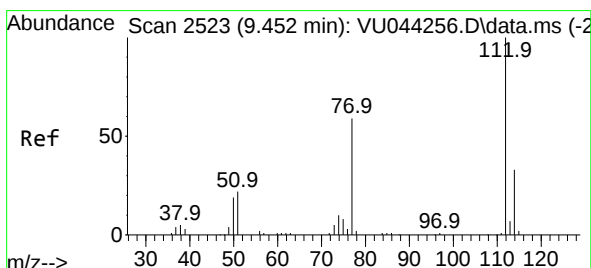
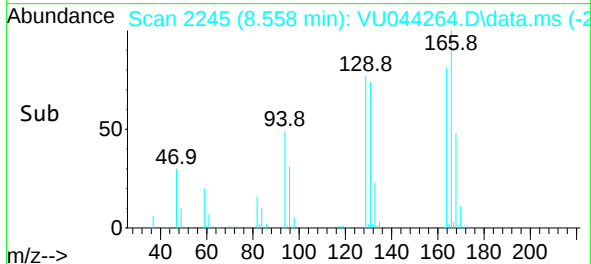
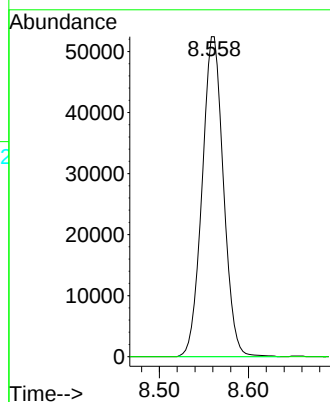
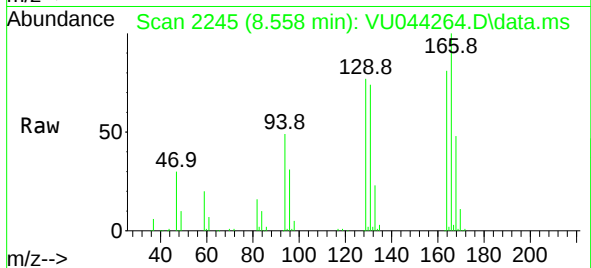
Acq: 30 Jun 2021 16:47

Tgt Ion:129 Resp: 87260

Ion Ratio Lower Upper

129 100

127 0.0 53.6 99.6#



#51

Chlorobenzene

Concen: 5.391 ug/L

RT: 9.455 min Scan# 2524

Delta R.T. 0.003 min

Lab File: VU044264.D

Acq: 30 Jun 2021 16:47

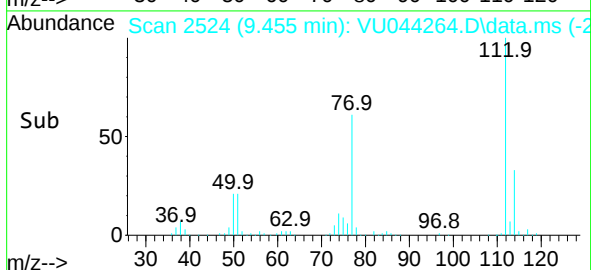
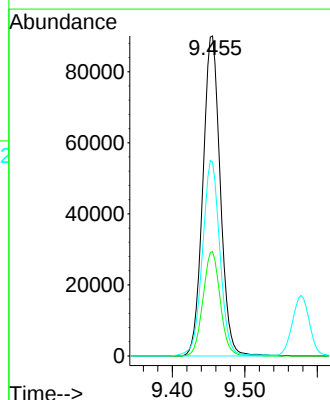
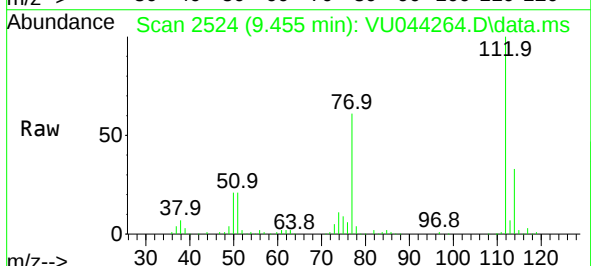
Tgt Ion:112 Resp: 150242

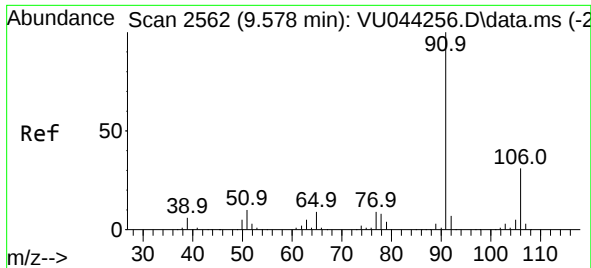
Ion Ratio Lower Upper

112 100

114 32.6 22.0 41.0

77 60.6 48.9 73.3

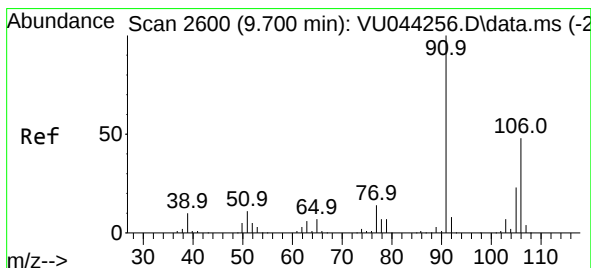
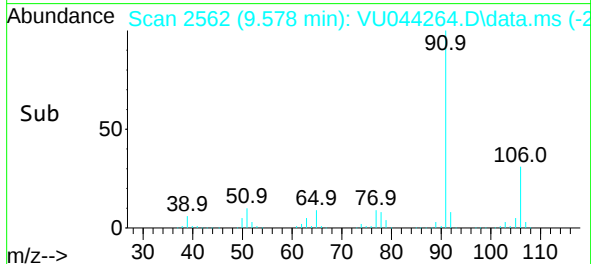
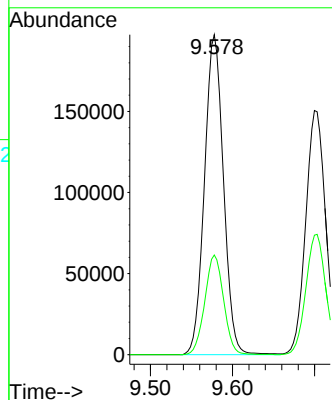
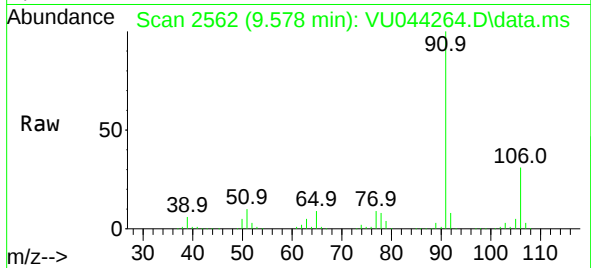




#52
Ethylbenzene
Concen: 6.313 ug/L
RT: 9.578 min Scan# 2562
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

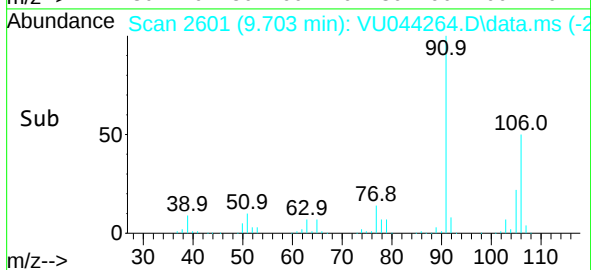
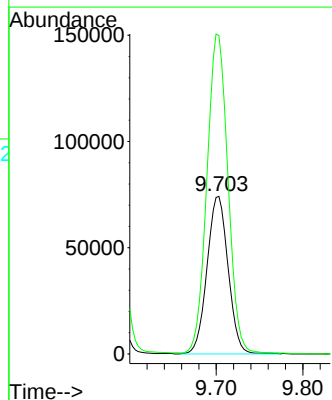
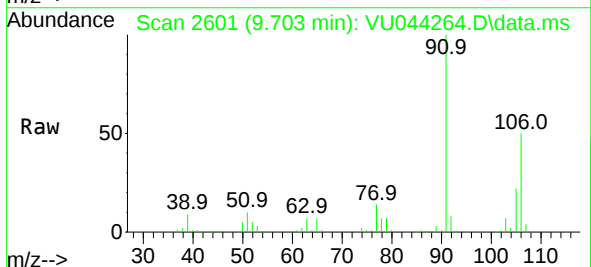
Instrument :
MSVOA_U
ClientSampled :

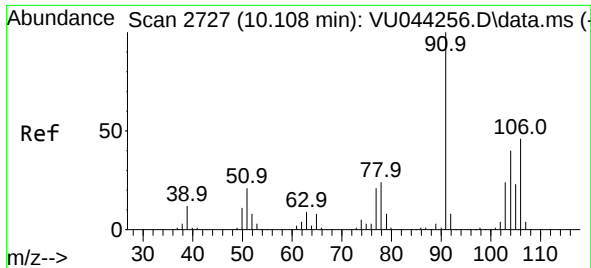
Tgt Ion: 91 Resp: 317071
Ion Ratio Lower Upper
91 100
106 31.2 21.6 40.2



#53
m,p-Xylene
Concen: 6.599 ug/L
RT: 9.703 min Scan# 2601
Delta R.T. 0.003 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Tgt Ion: 106 Resp: 125513
Ion Ratio Lower Upper
106 100
91 201.8 144.8 269.0

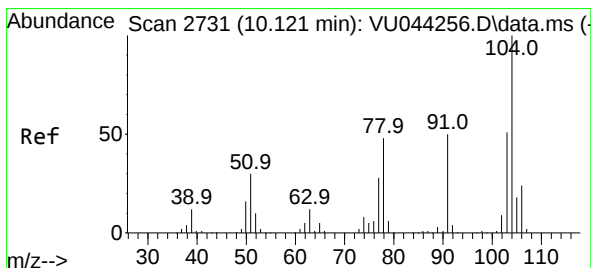
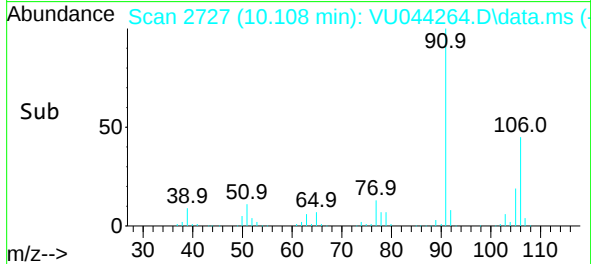
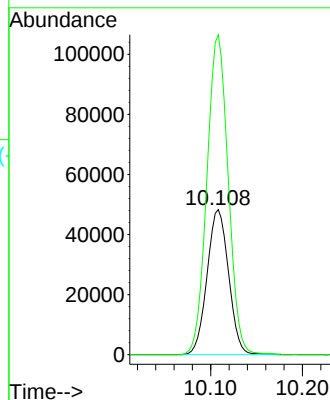
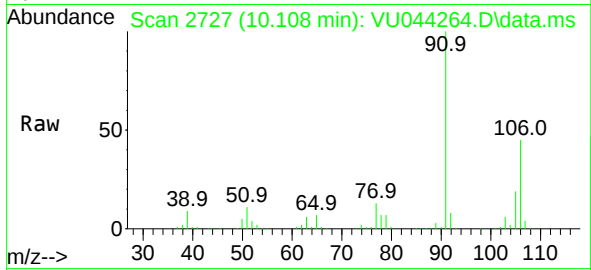




#54
o-Xylene
Concen: 4.257 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

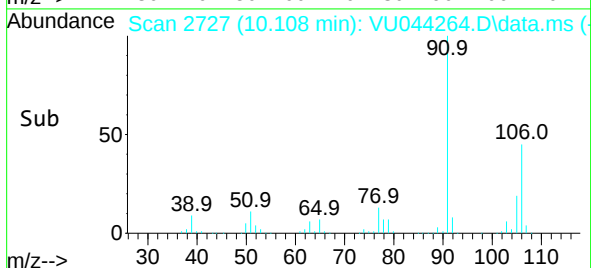
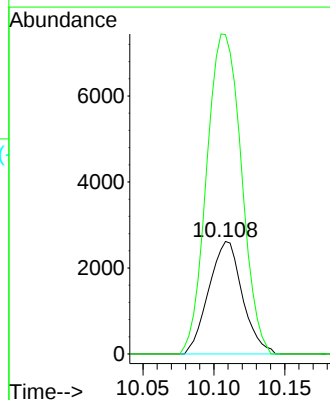
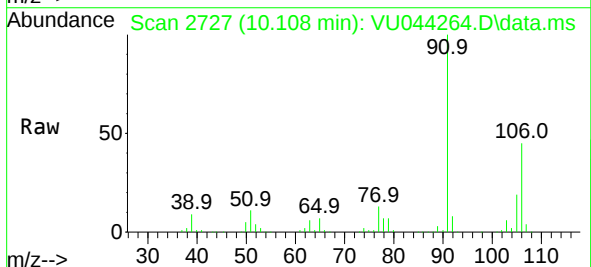
Instrument :
MSVOA_U
ClientSampled :

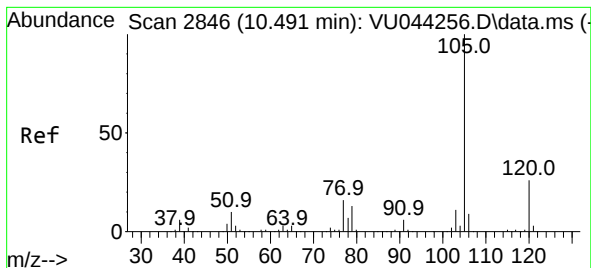
Tgt Ion:106 Resp: 78708
Ion Ratio Lower Upper
106 100
91 220.6 154.8 287.4



#55
Styrene
Concen: 0.133 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. -0.013 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Tgt Ion:104 Resp: 4316
Ion Ratio Lower Upper
104 100
78 284.0 34.1 63.3#





#60

Isopropylbenzene

Concen: 0.607 ug/L

RT: 10.108 min Scan# 2727

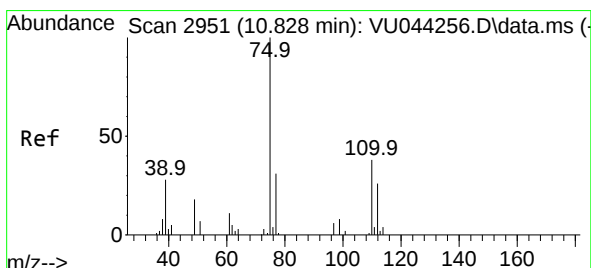
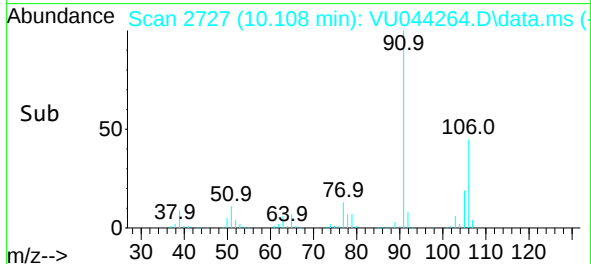
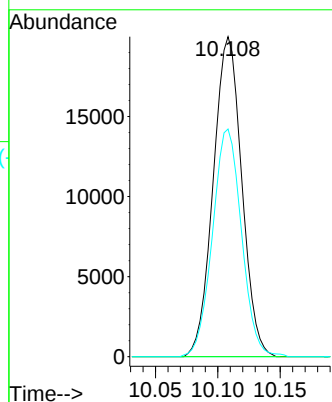
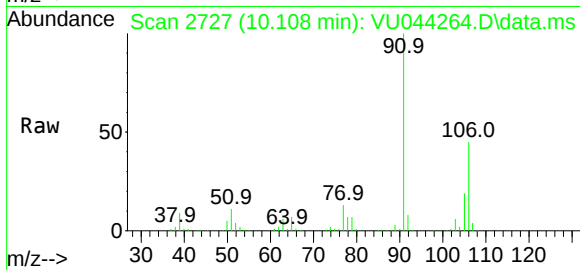
Delta R.T. -0.383 min

Lab File: VU044264.D

Acq: 30 Jun 2021 16:47

Tgt Ion:	105	Resp:	31829
Ion Ratio	Lower	Upper	
105	100		
120	0.0	20.7	31.1#
77	72.5	12.9	19.3#

Instrument :
MSVOA_U
ClientSampleId :



#61

1,2,3-Trichloropropane

Concen: 1.067 ug/L

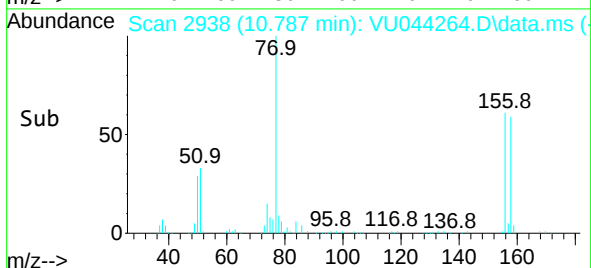
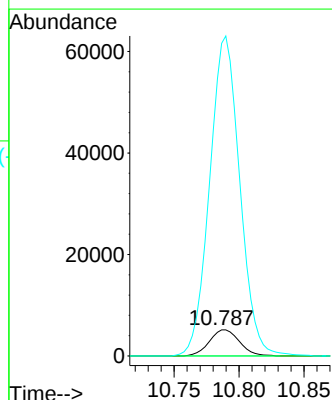
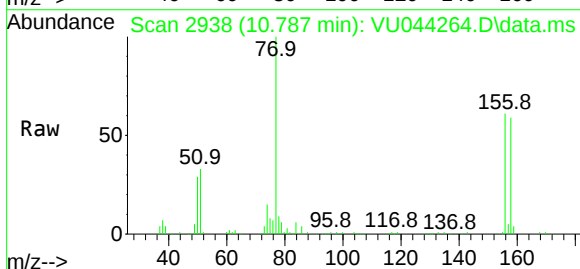
RT: 10.787 min Scan# 2938

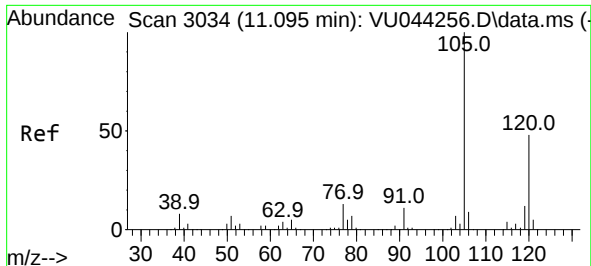
Delta R.T. -0.042 min

Lab File: VU044264.D

Acq: 30 Jun 2021 16:47

Tgt Ion:	75	Resp:	8309
Ion Ratio	Lower	Upper	
75	100		
110	0.0	30.5	45.7#
77	1226.8	26.1	39.1#

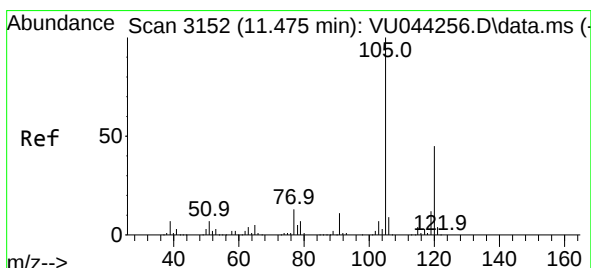
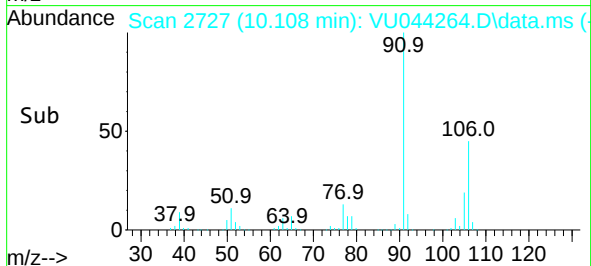
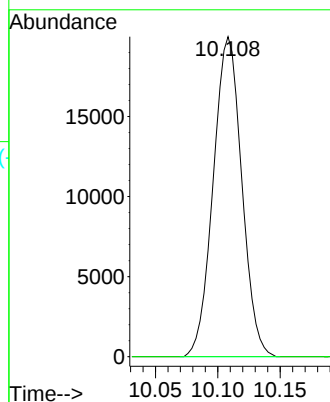
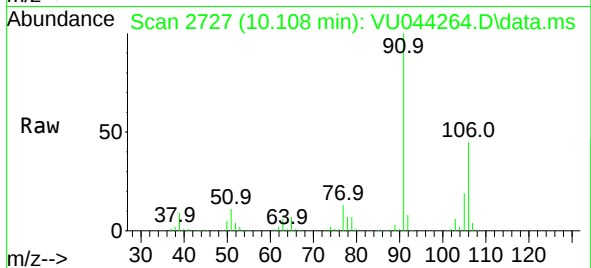




#62
1,3,5-Trimethylbenzene
Concen: 0.696 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. -0.987 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

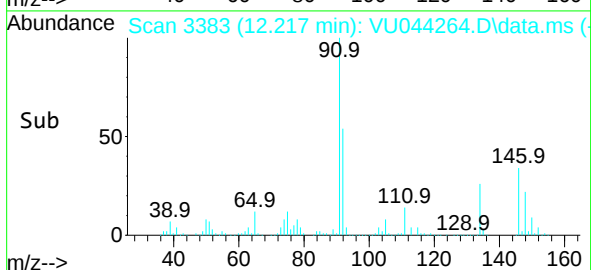
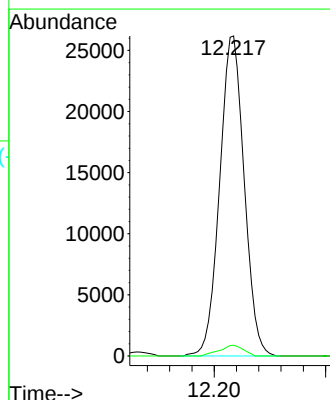
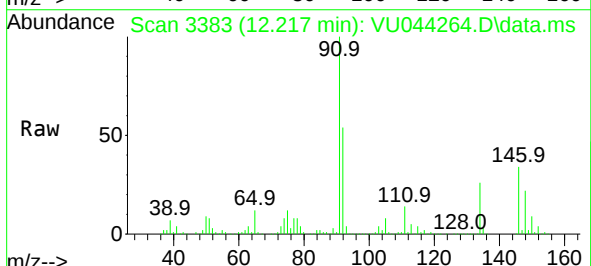
Instrument :
MSVOA_U
ClientSampled :

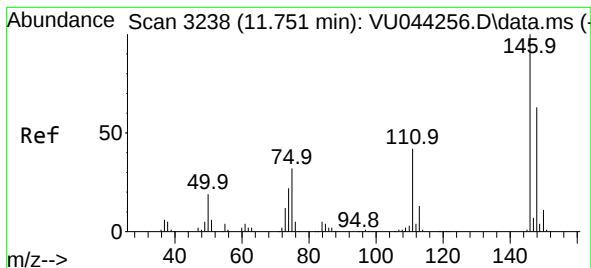
Tgt Ion:105 Resp: 31829
Ion Ratio Lower Upper
105 100
120 0.0 38.0 57.0#



#63
1,2,4-Trimethylbenzene
Concen: 0.855 ug/L
RT: 12.217 min Scan# 3383
Delta R.T. 0.743 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Tgt Ion:105 Resp: 39994
Ion Ratio Lower Upper
105 100
120 3.3 35.6 53.4#

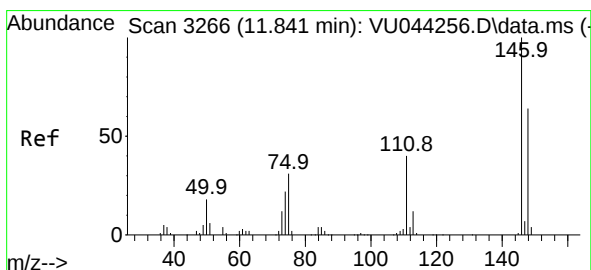
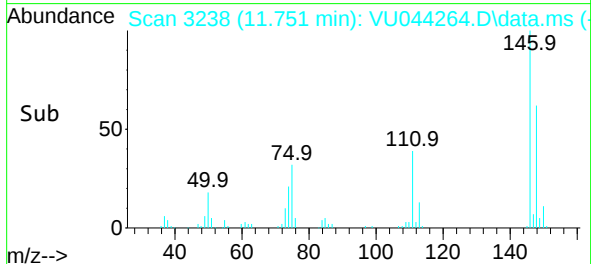
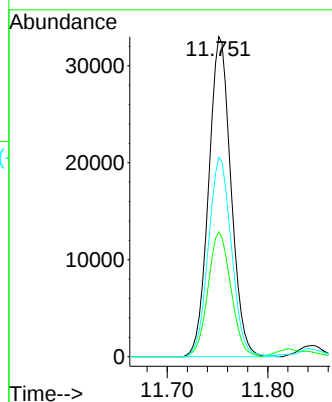
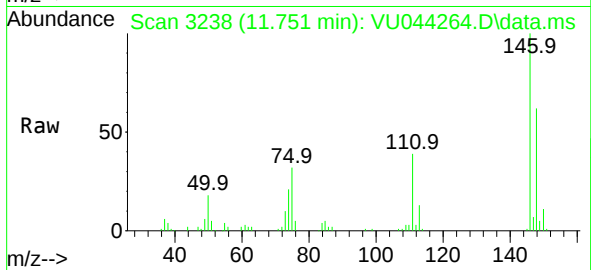




#64
1,3-Dichlorobenzene
Concen: 2.147 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

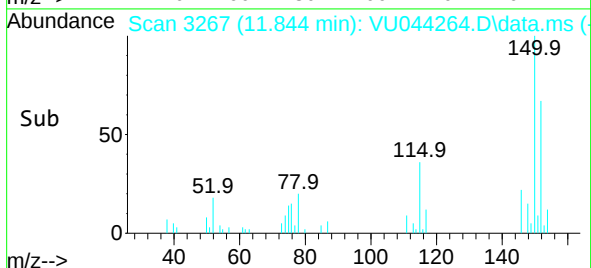
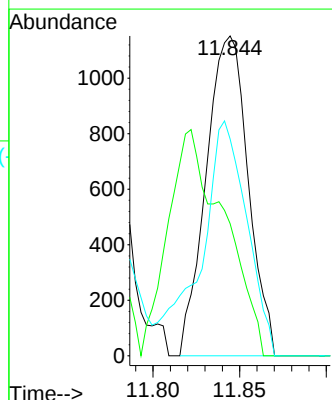
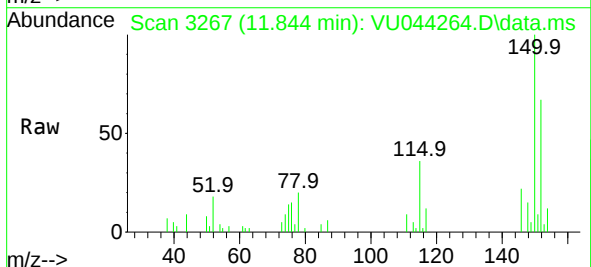
Instrument :
MSVOA_U
ClientSampled :

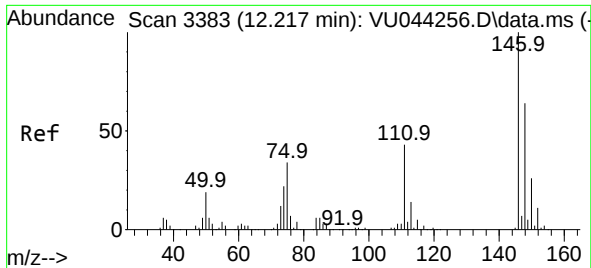
Tgt Ion:146 Resp: 50861
Ion Ratio Lower Upper
146 100
111 39.0 29.8 55.3
148 62.3 45.8 85.2



#65
1,4-Dichlorobenzene
Concen: 0.081 ug/L
RT: 11.844 min Scan# 3267
Delta R.T. 0.003 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Tgt Ion:146 Resp: 1945
Ion Ratio Lower Upper
146 100
111 41.3 28.2 52.4
148 67.8 45.1 83.9

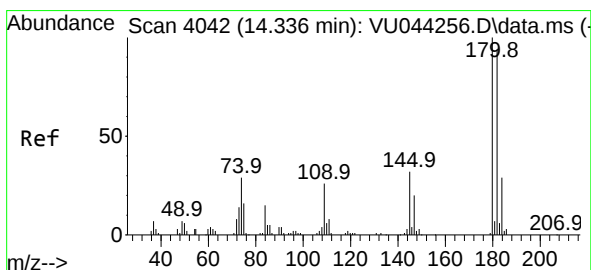
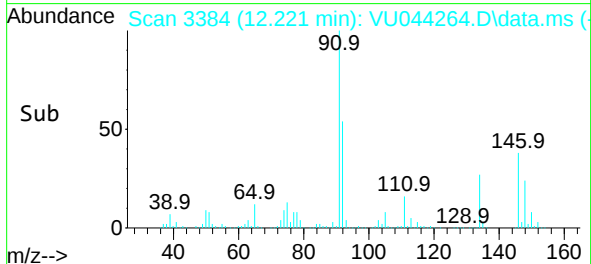
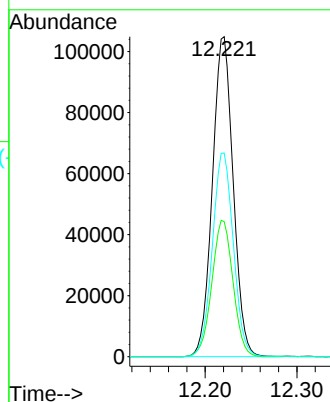
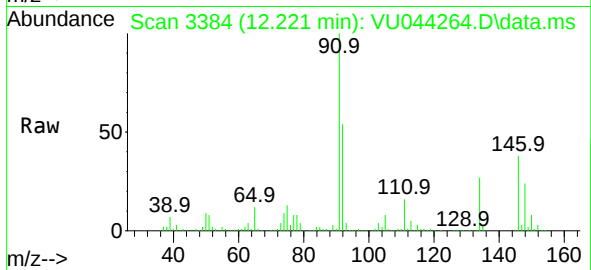




#67
1,2-Dichlorobenzene
Concen: 7.419 ug/L
RT: 12.221 min Scan# 3384
Delta R.T. 0.003 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:146 Resp: 165267
Ion Ratio Lower Upper
146 100
111 42.2 35.0 52.6
148 63.6 51.2 76.8



#72
1,2,3-Trichlorobenzene
Concen: 5.689 ug/L
RT: 14.336 min Scan# 4042
Delta R.T. 0.000 min
Lab File: VU044264.D
Acq: 30 Jun 2021 16:47

Tgt Ion:180 Resp: 75111
Ion Ratio Lower Upper
180 100
182 94.9 76.4 114.6
145 31.6 26.5 39.7

