

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120821\
 Data File : VU046168.D
 Acq On : 08 Dec 2021 12:13
 Operator : SY/MD
 Sample : M4960-11 10X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 09 03:19:18 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	203907	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	200385	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	106344	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	72778	43.328	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.660%
7) Chloroethane-d5	1.919	69	55454	42.999	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.000%
11) 1,1-Dichloroethene-d2	2.571	63	101680	33.721	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.440%
21) 2-Butanone-d5	4.642	46	131093	98.177	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.180%
24) Chloroform-d	5.066	84	136415	48.633	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.260%
26) 1,2-Dichloroethane-d4	5.703	65	89272	47.423	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.840%
32) Benzene-d6	5.732	84	288488	50.230	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.460%
36) 1,2-Dichloropropane-d6	6.693	67	89146	50.083	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.160%
41) Toluene-d8	7.899	98	264433	50.567	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.140%
43) trans-1,3-Dichloroprop...	8.179	79	42747	49.749	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.500%
47) 2-Hexanone-d5	8.635	63	92068	109.092	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	109.090%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	136834	50.690	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.380%
66) 1,2-Dichlorobenzene-d4	12.195	152	108535	52.996	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	2882	1.440	ug/L #	47
10) 1,1,2-Trichloro-1,2,2-...	2.571	101	869	0.586	ug/L #	21
12) 1,1-Dichloroethene	2.571	96	778	0.552	ug/L #	1
13) Acetone	2.658	43	18784	11.256	ug/L	64
19) 1,1-Dichloroethane	3.877	63	5664	2.088	ug/L	96
20) cis-1,2-Dichloroethene	4.671	96	56296	34.773	ug/L	100
22) 2-Butanone	4.729	43	11944	6.575	ug/L #	69
27) 1,2-Dichloroethane	5.796	62	7731	3.456	ug/L #	93
33) Benzene	5.777	78	145793	24.039	ug/L	100
37) 1,2-Dichloropropane	6.693	63	9275	5.838	ug/L #	86
39) cis-1,3-Dichloropropene	7.565	75	2603	1.077	ug/L #	62
40) 4-Methyl-2-pentanone	7.793	43	3756	1.609	ug/L	98
42) Toluene	7.970	91	304725	46.825	ug/L	98
44) trans-1,3-Dichloropropene	8.182	75	1777	0.749	ug/L	90
51) Chlorobenzene	9.446	112	67722	16.085	ug/L	97
52) Ethylbenzene	9.571	91	126881	18.116	ug/L	97
53) m,p-Xylene	9.693	106	126619	46.357	ug/L	98
54) o-xylene	10.102	106	49640	18.730	ug/L	93
55) Styrene	10.114	104	16591	3.667	ug/L	79

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120821\
 Data File : VU046168.D
 Acq On : 08 Dec 2021 12:13
 Operator : SY/MD
 Sample : M4960-11 10X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 09 03:19:18 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

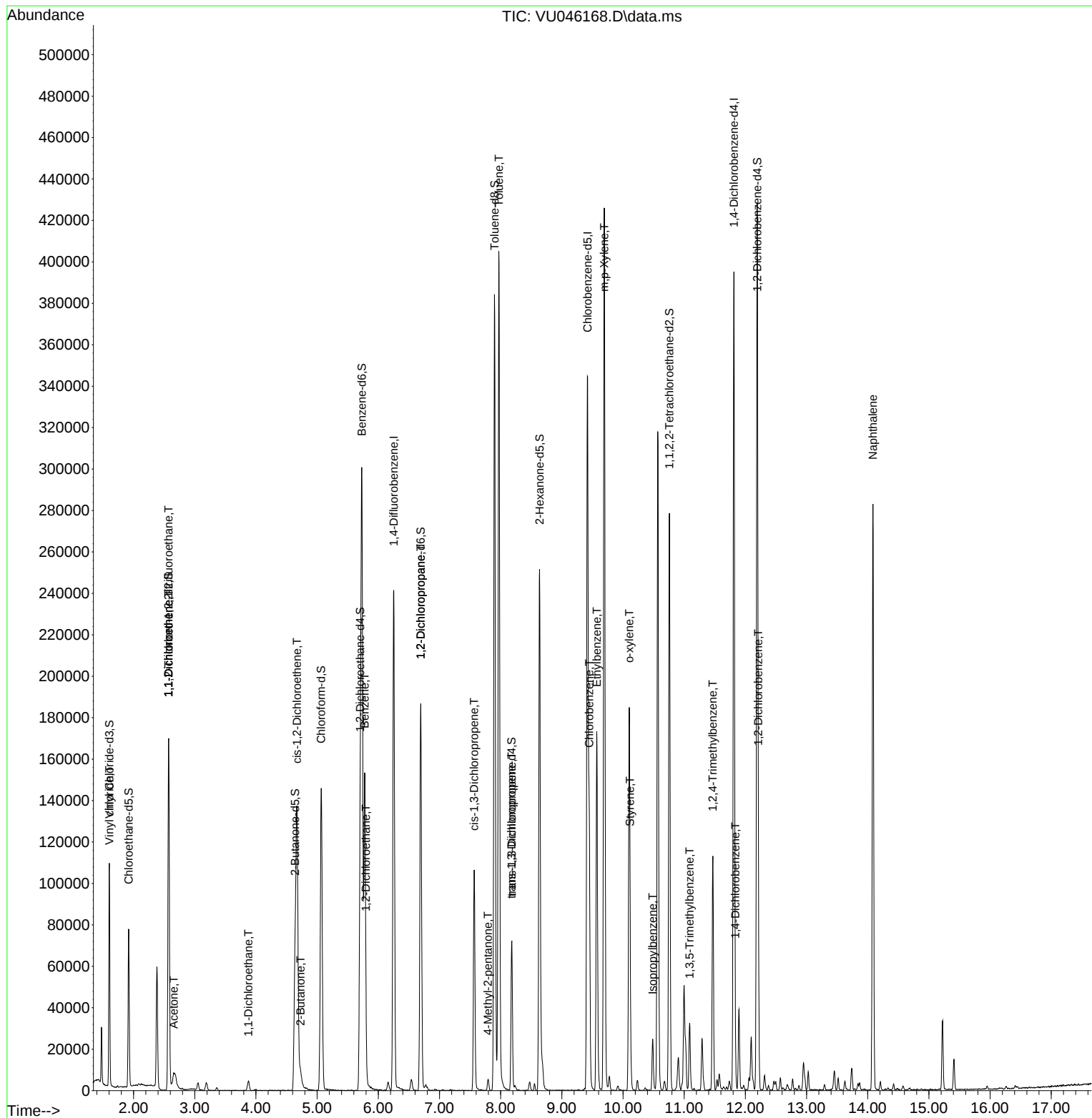
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Isopropylbenzene	10.484	105	17213	2.488	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	18308	3.174	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	62876	10.897	ug/L	98
65) 1,4-Dichlorobenzene	11.835	146	4737	1.395	ug/L	98
67) 1,2-Dichlorobenzene	12.211	146	17066	5.156	ug/L	95
71) Naphthalene	14.085	128	221718	29.982	ug/L	99

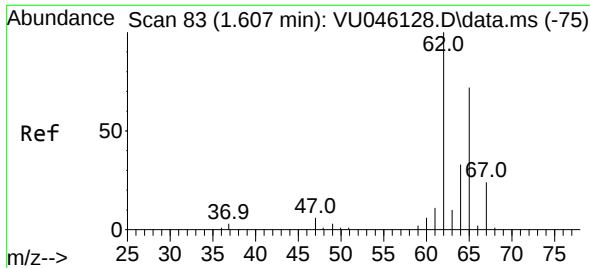
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120821\
Data File : VU046168.D
Acq On : 08 Dec 2021 12:13
Operator : SY/MD
Sample : M4960-11 10X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

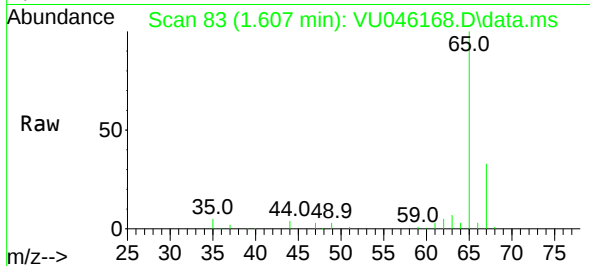
Quant Time: Dec 09 03:19:18 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration



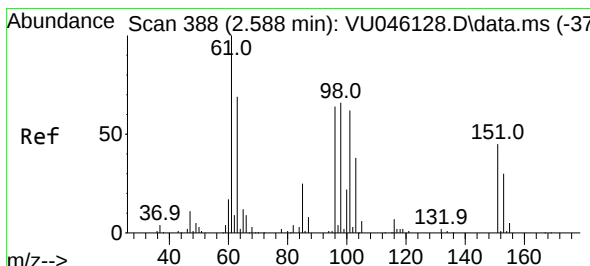
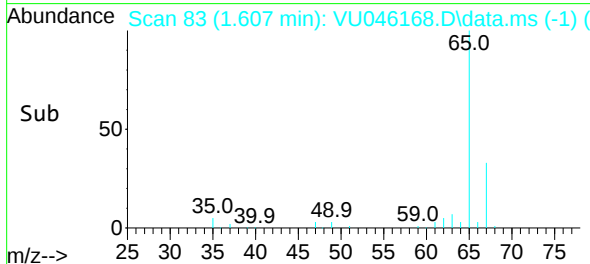
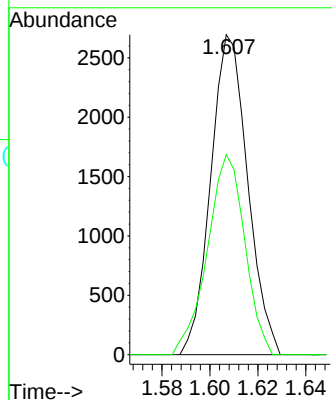


#5
 Vinyl chloride
 Concen: 1.440 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU046168.D
 Acq: 08 Dec 2021 12:13

Instrument :
 MSVOA_U
 ClientSampleId :

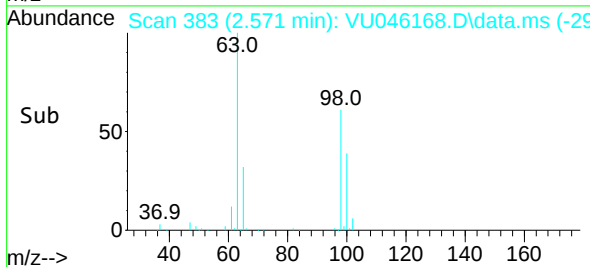
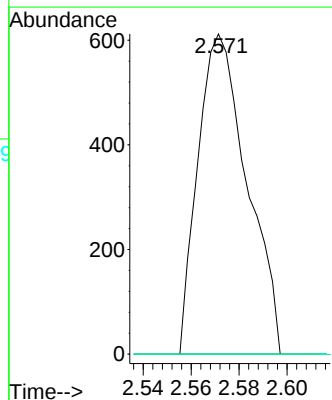
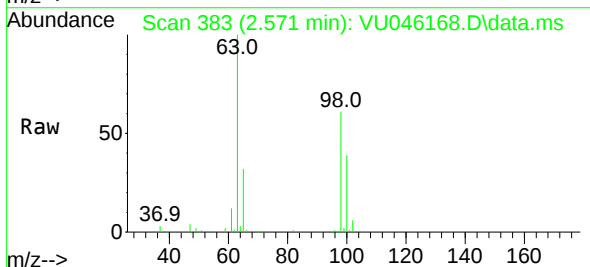


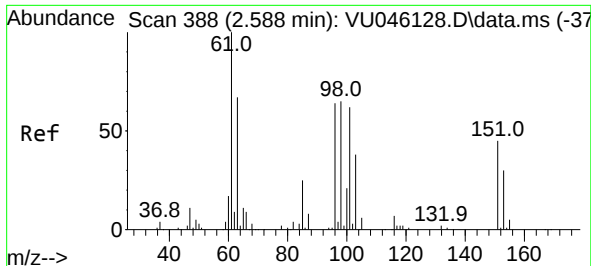
Tgt Ion: 62 Resp: 2882
 Ion Ratio Lower Upper
 62 100
 64 62.5 22.9 42.5#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.586 ug/L
 RT: 2.571 min Scan# 383
 Delta R.T. -0.016 min
 Lab File: VU046168.D
 Acq: 08 Dec 2021 12:13

Tgt Ion: 101 Resp: 869
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.1 52.7#
 151 0.0 56.7 85.1#





#12

1,1-Dichloroethene

Concen: 0.552 ug/L

RT: 2.571 min Scan# 388

Delta R.T. -0.013 min

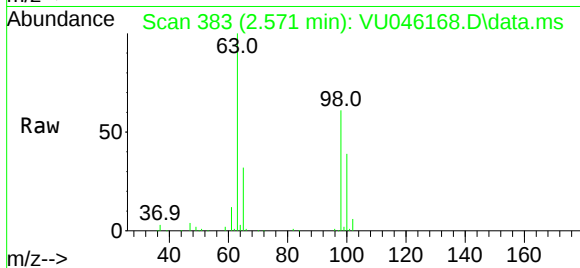
Lab File: VU046168.D

Acq: 08 Dec 2021 12:13

Instrument :

MSVOA_U

ClientSampleId :



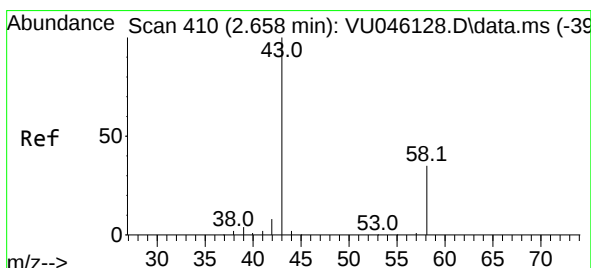
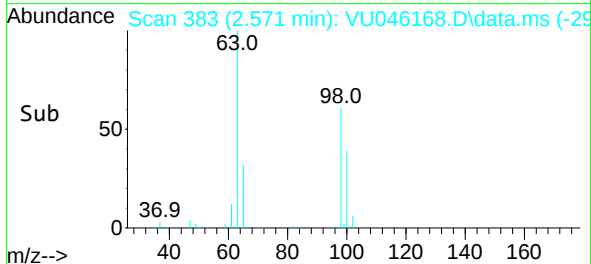
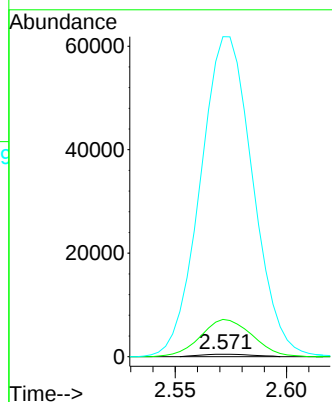
Tgt Ion: 96 Resp: 778

Ion Ratio Lower Upper

96 100

61 1504.6 118.6 220.2#

63 12937.2 93.0 172.8#



#13

Acetone

Concen: 11.256 ug/L

RT: 2.658 min Scan# 410

Delta R.T. -0.003 min

Lab File: VU046168.D

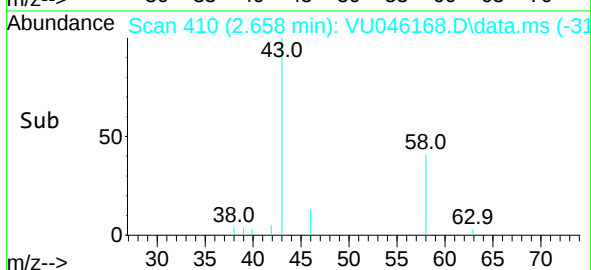
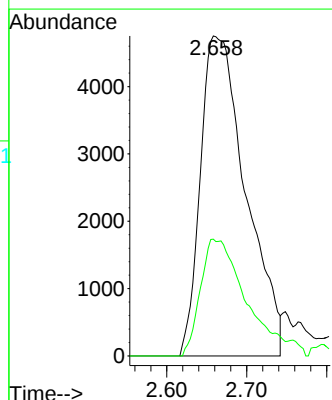
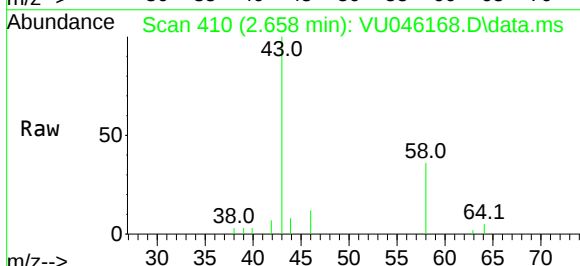
Acq: 08 Dec 2021 12:13

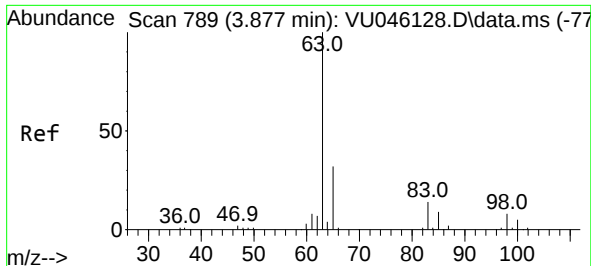
Tgt Ion: 43 Resp: 18784

Ion Ratio Lower Upper

43 100

58 13.0 0.0 66.8





#19

1,1-Dichloroethane

Concen: 2.088 ug/L

RT: 3.877 min Scan# 789

Delta R.T. -0.000 min

Lab File: VU046168.D

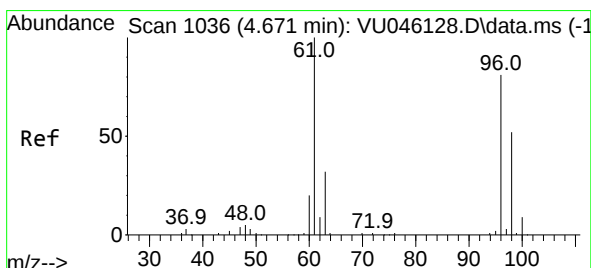
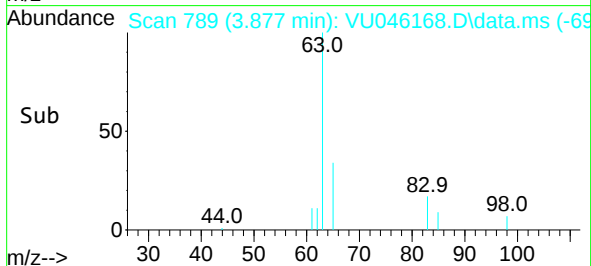
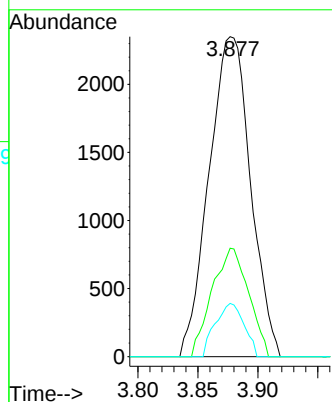
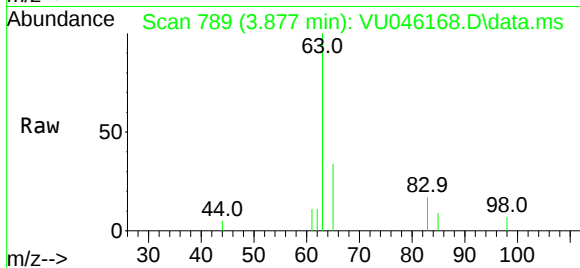
Acq: 08 Dec 2021 12:13

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 63	Resp: 5664
Ion Ratio	Lower Upper
63 100	
65 33.9	22.8 42.4
83 16.6	9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 34.773 ug/L

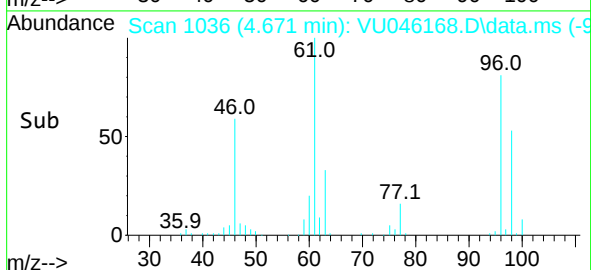
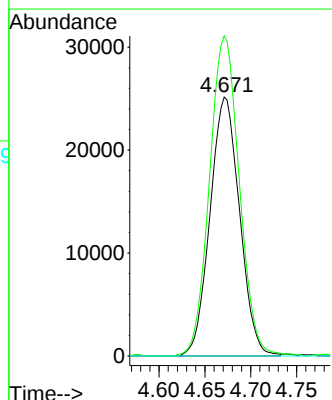
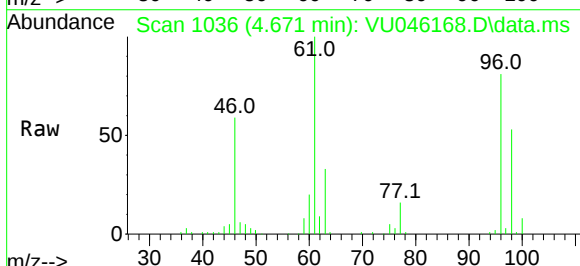
RT: 4.671 min Scan# 1036

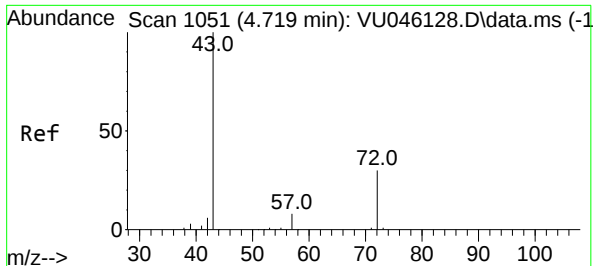
Delta R.T. -0.000 min

Lab File: VU046168.D

Acq: 08 Dec 2021 12:13

Tgt Ion: 96	Resp: 56296
Ion Ratio	Lower Upper
96 100	
61 123.6	86.8 161.2
68 0.0	0.0 0.0





#22

2-Butanone

Concen: 6.575 ug/L

RT: 4.729 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VU046168.D

Acq: 08 Dec 2021 12:13

Instrument :

MSVOA_U

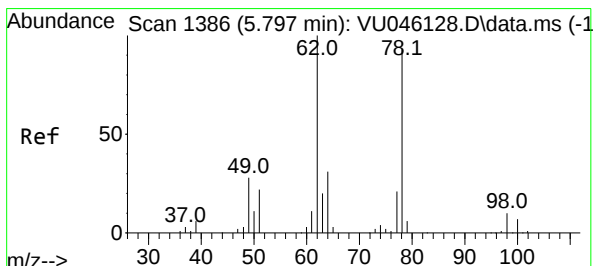
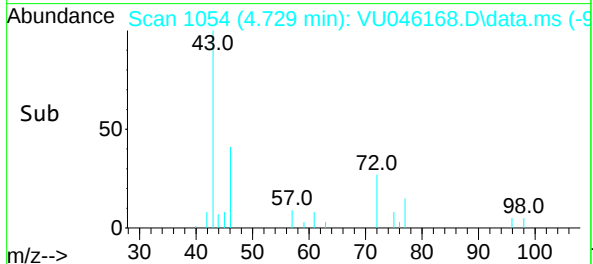
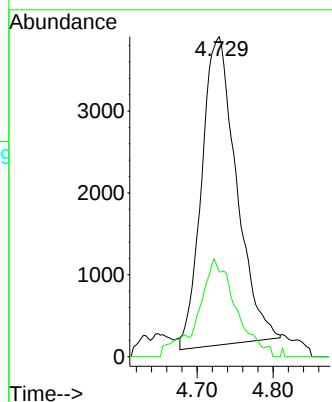
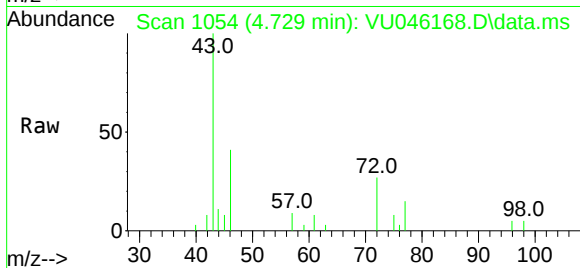
ClientSampleId :

Tgt Ion: 43 Resp: 11944

Ion Ratio Lower Upper

43 100

72 12.3 14.5 43.6#



#27

1,2-Dichloroethane

Concen: 3.456 ug/L

RT: 5.796 min Scan# 1386

Delta R.T. -0.003 min

Lab File: VU046168.D

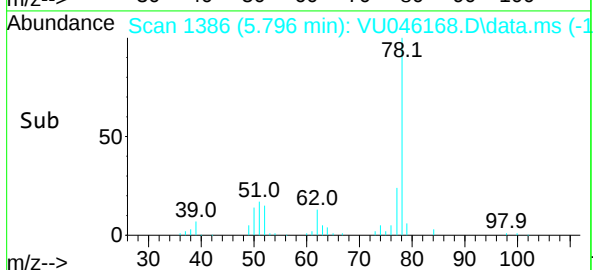
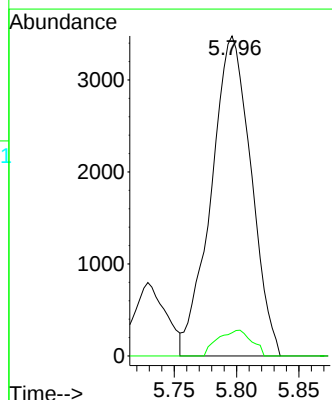
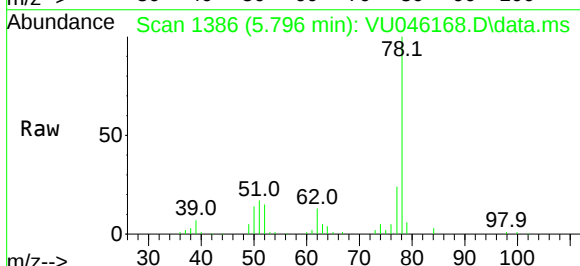
Acq: 08 Dec 2021 12:13

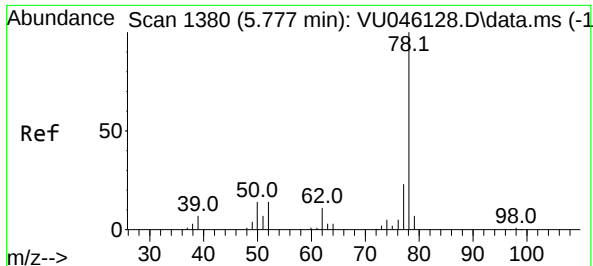
Tgt Ion: 62 Resp: 7731

Ion Ratio Lower Upper

62 100

98 7.2 7.9 11.9#

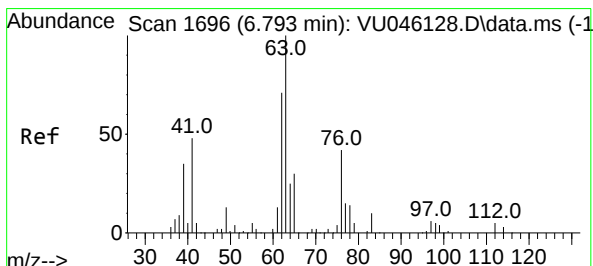
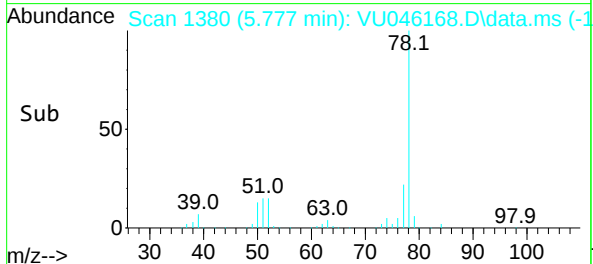
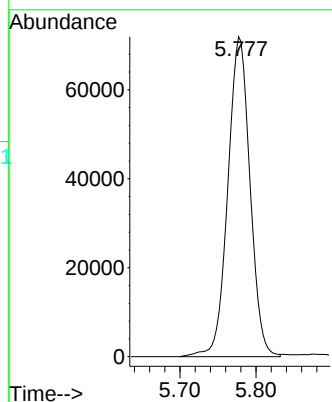
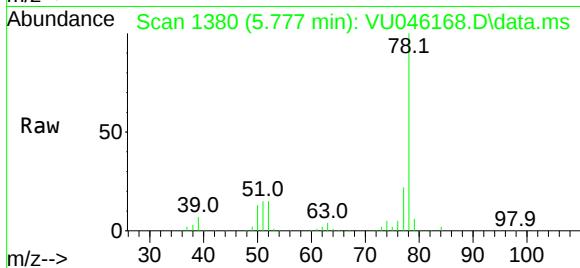




#33
Benzene
Concen: 24.039 ug/L
RT: 5.777 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

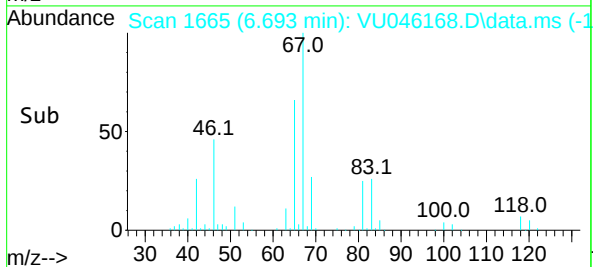
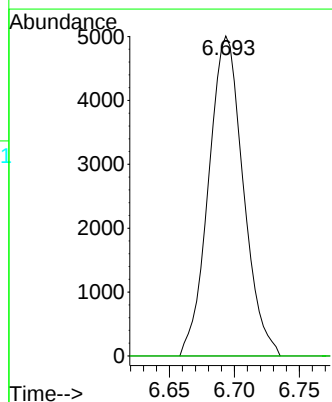
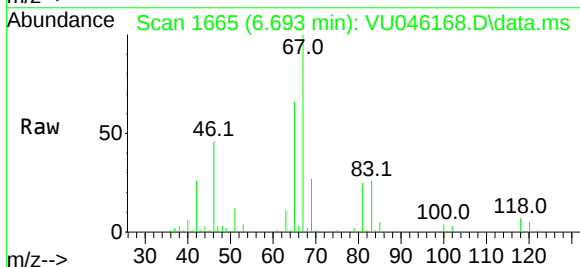
Instrument :
MSVOA_U
ClientSampleId :

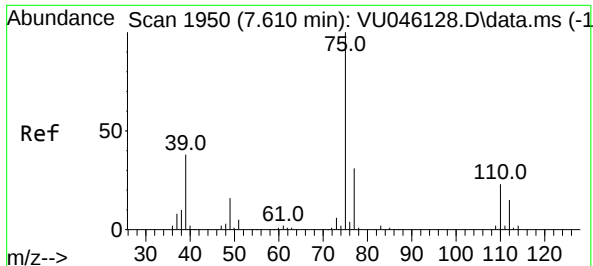
Tgt Ion: 78 Resp: 145793



#37
1,2-Dichloropropane
Concen: 5.838 ug/L
RT: 6.693 min Scan# 1665
Delta R.T. -0.100 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

Tgt Ion: 63 Resp: 9275
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 1.077 ug/L

RT: 7.565 min Scan# 1950

Delta R.T. -0.045 min

Lab File: VU046168.D

Acq: 08 Dec 2021 12:13

Instrument :

MSVOA_U

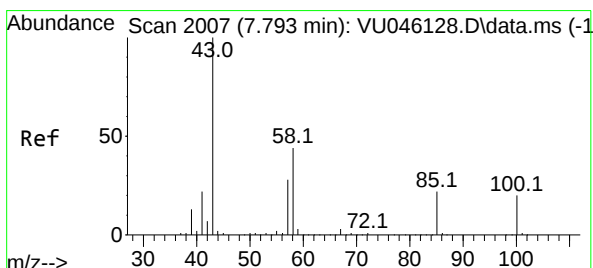
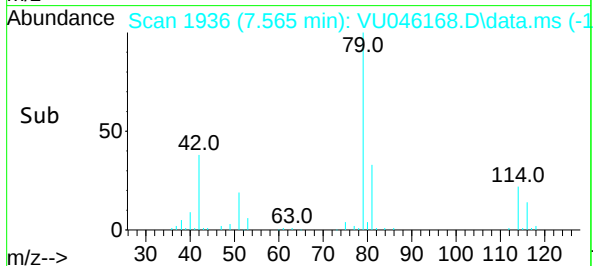
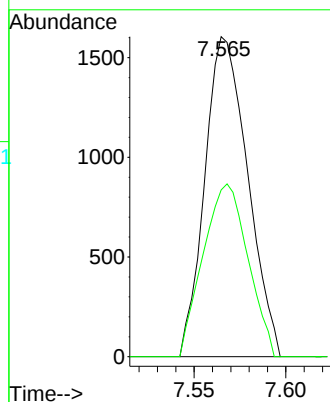
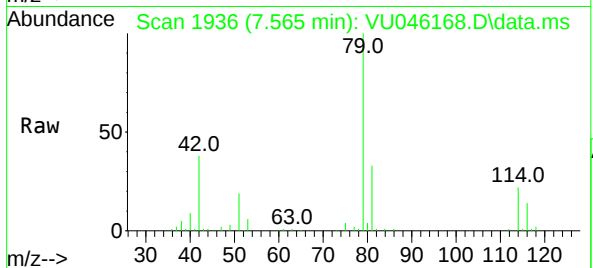
ClientSampleId :

Tgt Ion: 75 Resp: 2603

Ion Ratio Lower Upper

75 100

77 52.1 21.8 40.6#



#40

4-Methyl-2-pentanone

Concen: 1.609 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. -0.003 min

Lab File: VU046168.D

Acq: 08 Dec 2021 12:13

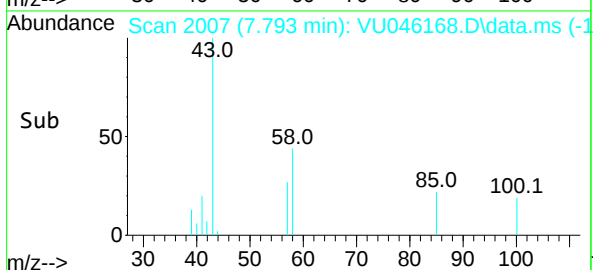
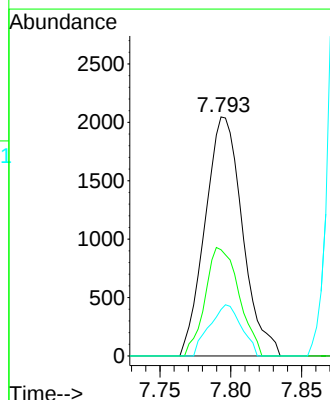
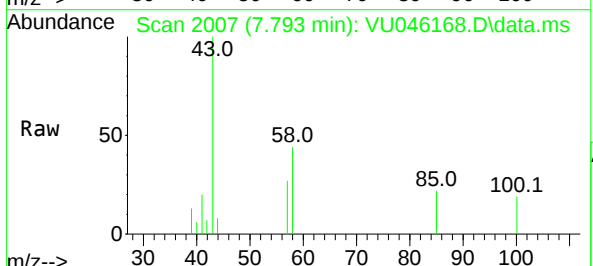
Tgt Ion: 43 Resp: 3756

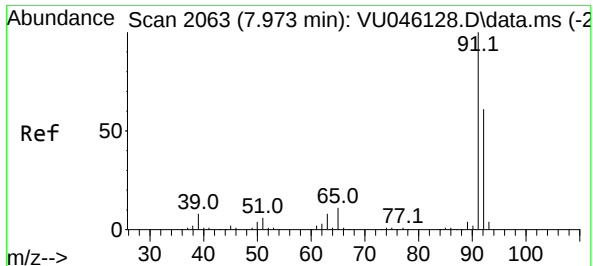
Ion Ratio Lower Upper

43 100

58 41.1 34.2 51.4

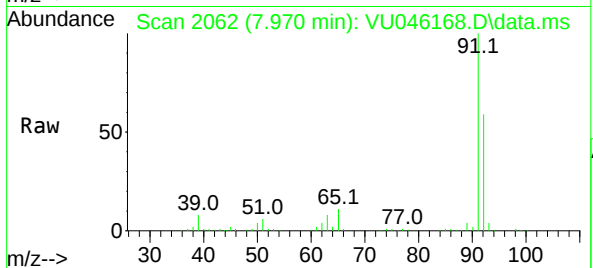
100 18.2 14.5 21.7



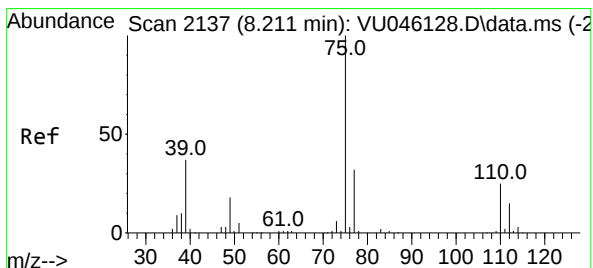
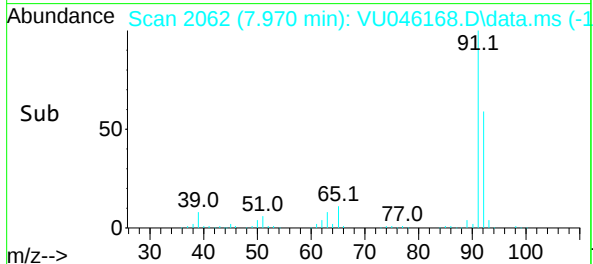
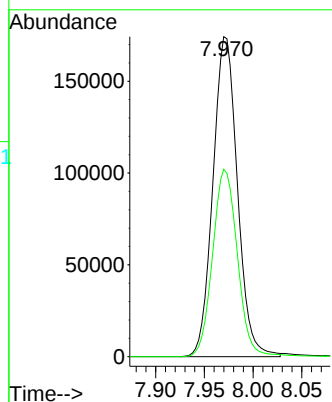


#42
Toluene
Concen: 46.825 ug/L
RT: 7.970 min Scan# 2063
Delta R.T. -0.003 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

Instrument :
MSVOA_U
ClientSampleId :

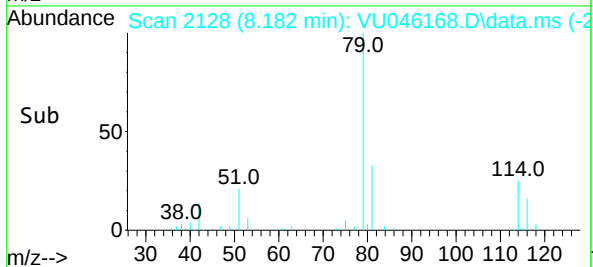
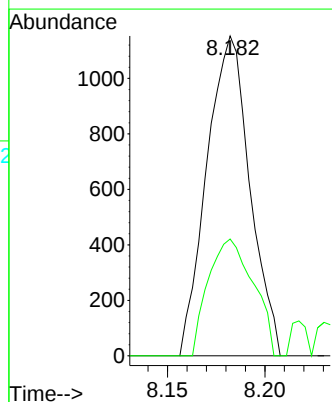
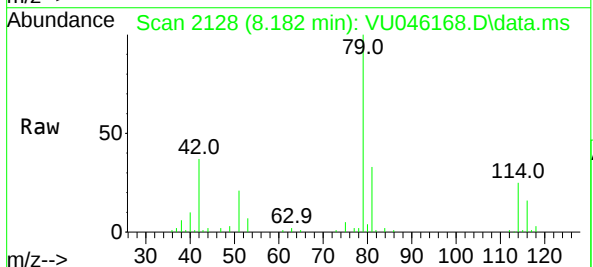


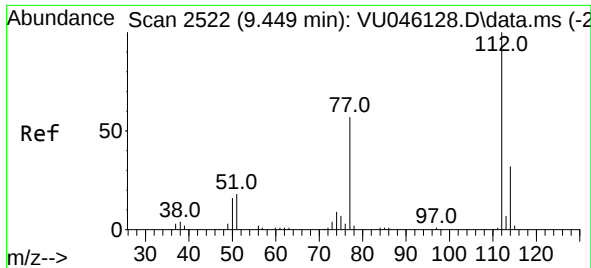
Tgt Ion: 91 Resp: 304725
Ion Ratio Lower Upper
91 100
92 58.6 41.9 77.7



#44
trans-1,3-Dichloropropene
Concen: 0.749 ug/L
RT: 8.182 min Scan# 2128
Delta R.T. -0.032 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

Tgt Ion: 75 Resp: 1777
Ion Ratio Lower Upper
75 100
77 36.5 21.7 40.3

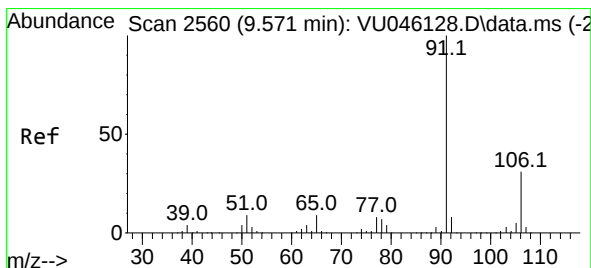
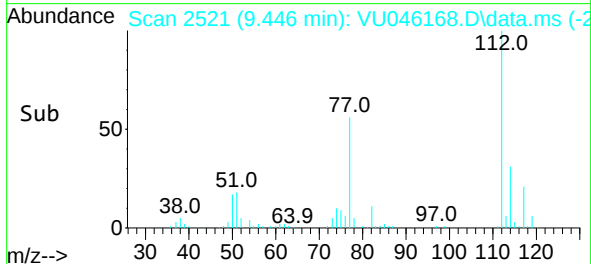
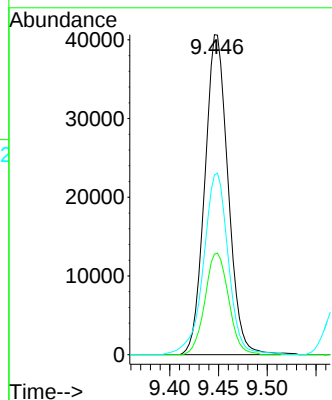
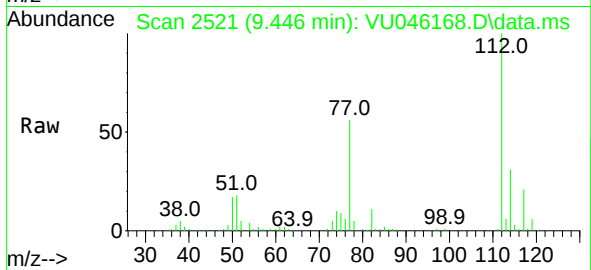




#51
Chlorobenzene
Concen: 16.085 ug/L
RT: 9.446 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

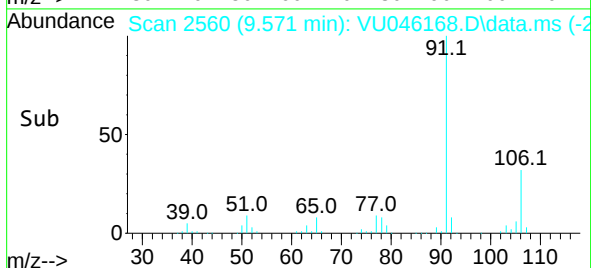
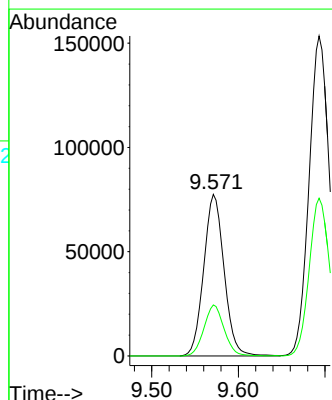
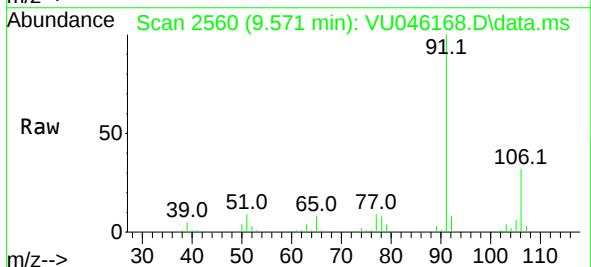
Instrument :
MSVOA_U
ClientSampleId :

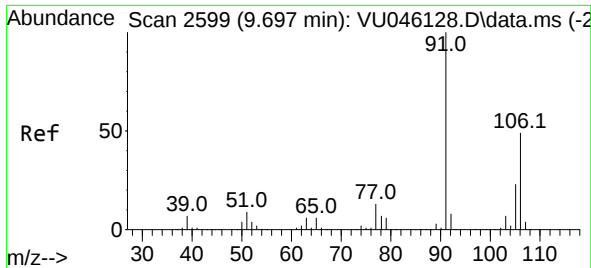
Tgt Ion:112 Resp: 67722
Ion Ratio Lower Upper
112 100
114 31.5 22.2 41.2
77 56.2 47.4 71.0



#52
Ethylbenzene
Concen: 18.116 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

Tgt Ion: 91 Resp: 126881
Ion Ratio Lower Upper
91 100
106 31.6 21.1 39.3

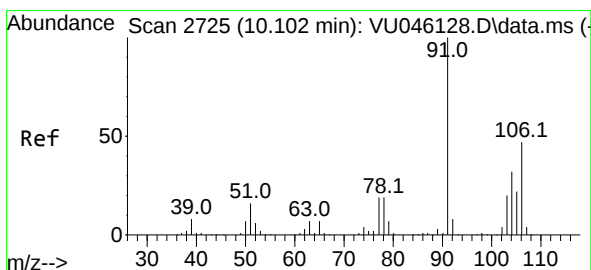
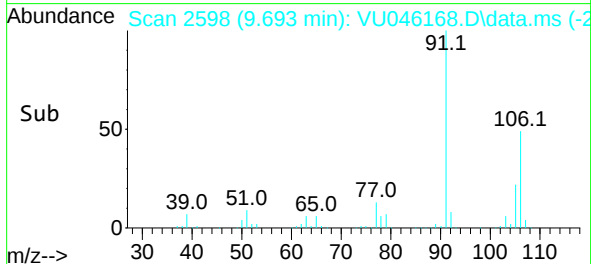
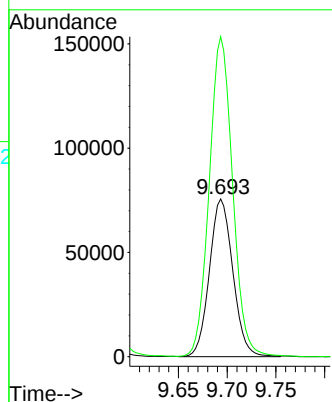
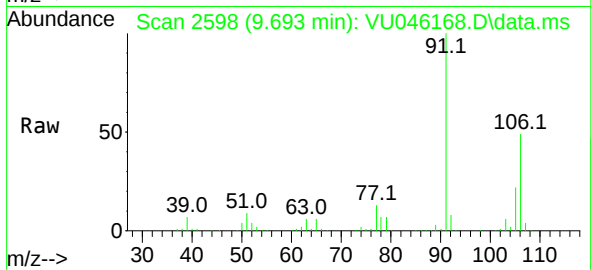




#53
m,p-Xylene
Concen: 46.357 ug/L
RT: 9.693 min Scan# 2599
Delta R.T. -0.003 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

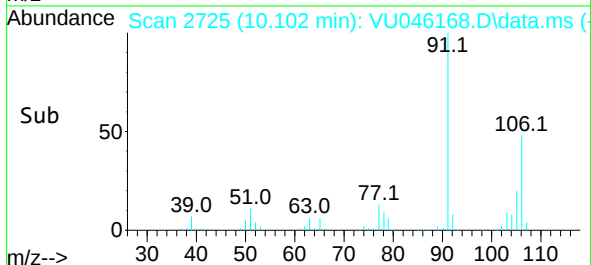
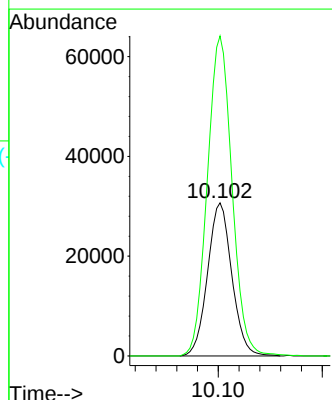
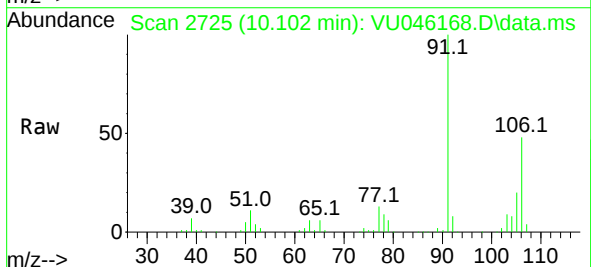
Instrument :
MSVOA_U
ClientSampleId :

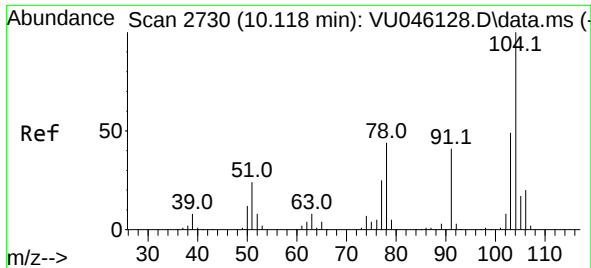
Tgt Ion:106 Resp: 126619
Ion Ratio Lower Upper
106 100
91 202.8 144.3 268.1



#54
o-xylene
Concen: 18.730 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

Tgt Ion:106 Resp: 49640
Ion Ratio Lower Upper
106 100
91 209.0 154.2 286.4

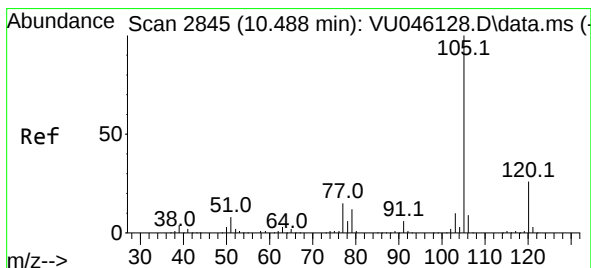
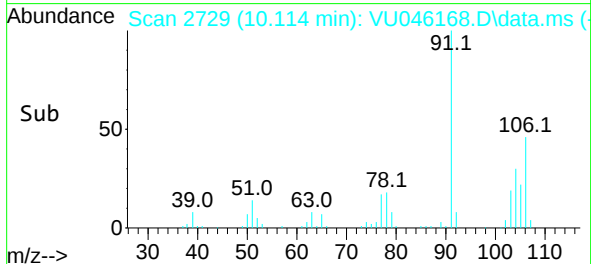
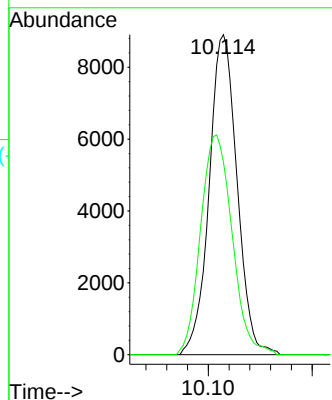
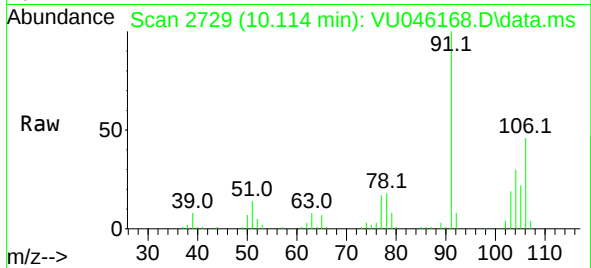




#55
Styrene
Concen: 3.667 ug/L
RT: 10.114 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

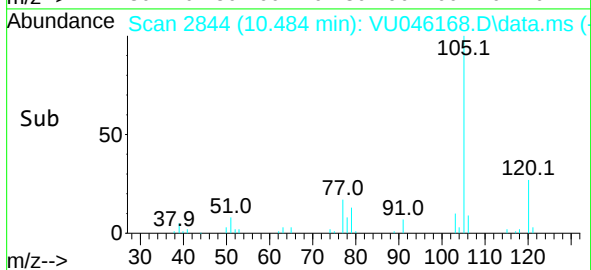
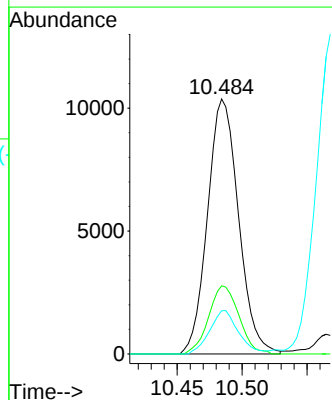
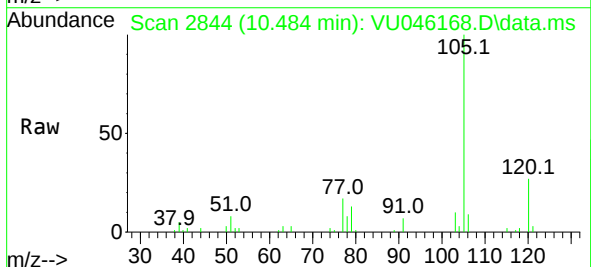
Instrument :
MSVOA_U
ClientSampleId :

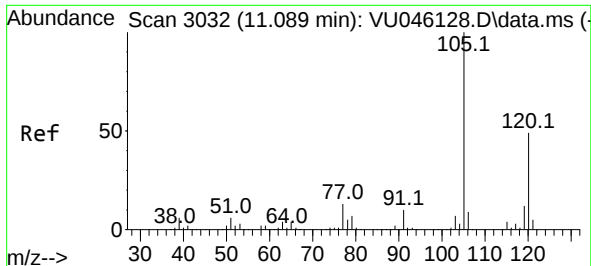
Tgt Ion:104 Resp: 16591
Ion Ratio Lower Upper
104 100
78 60.3 32.6 60.5



#61
Isopropylbenzene
Concen: 2.488 ug/L
RT: 10.484 min Scan# 2844
Delta R.T. -0.003 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

Tgt Ion:105 Resp: 17213
Ion Ratio Lower Upper
105 100
120 26.0 20.7 31.1
77 15.8 12.2 18.4





#62

1,3,5-Trimethylbenzene

Concen: 3.174 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. -0.003 min

Lab File: VU046168.D

Acq: 08 Dec 2021 12:13

Instrument :

MSVOA_U

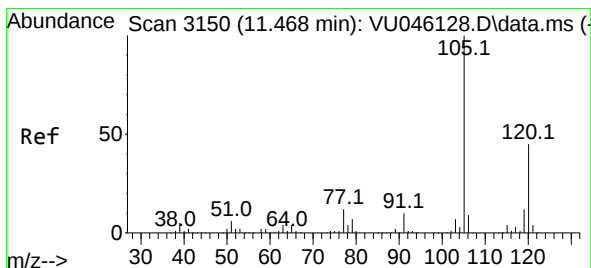
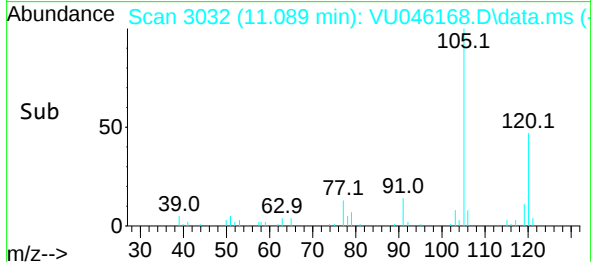
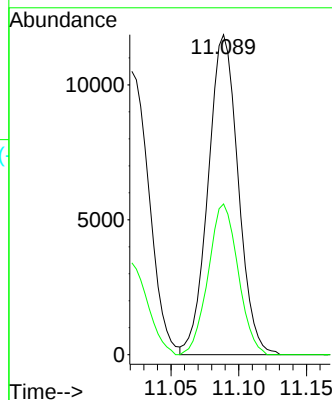
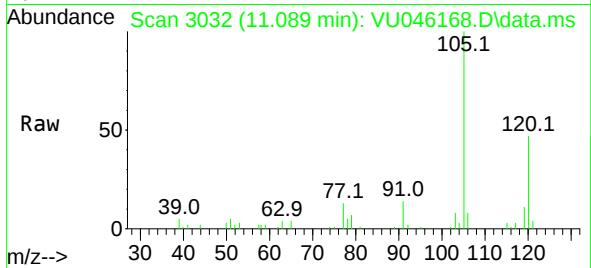
ClientSampleId :

Tgt Ion:105 Resp: 18308

Ion Ratio Lower Upper

105 100

120 46.8 37.8 56.6



#63

1,2,4-Trimethylbenzene

Concen: 10.897 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.003 min

Lab File: VU046168.D

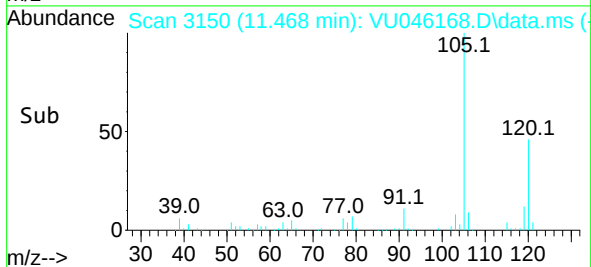
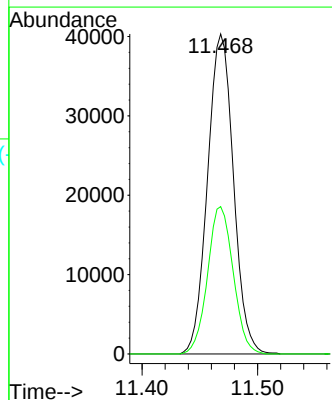
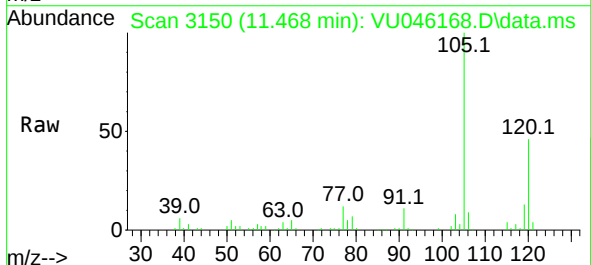
Acq: 08 Dec 2021 12:13

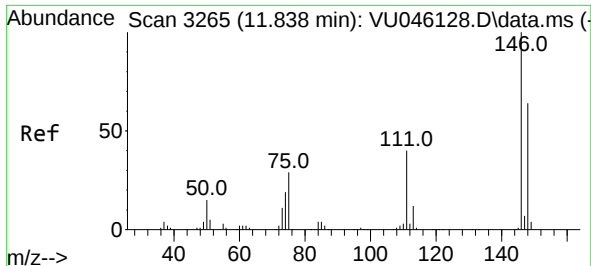
Tgt Ion:105 Resp: 62876

Ion Ratio Lower Upper

105 100

120 45.6 35.2 52.8

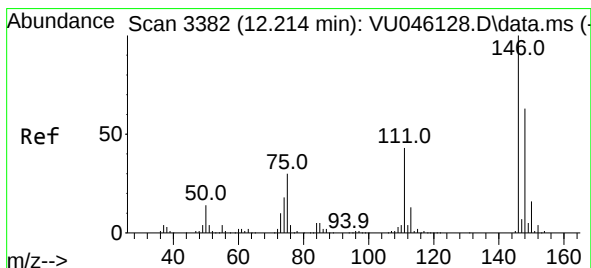
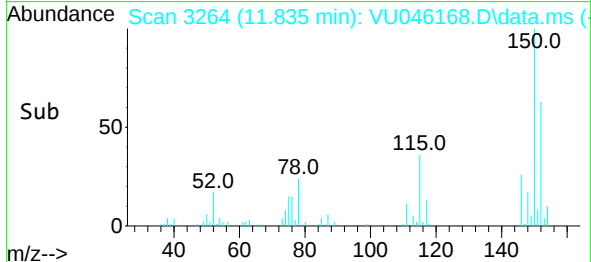
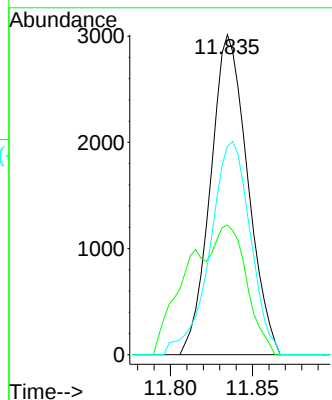
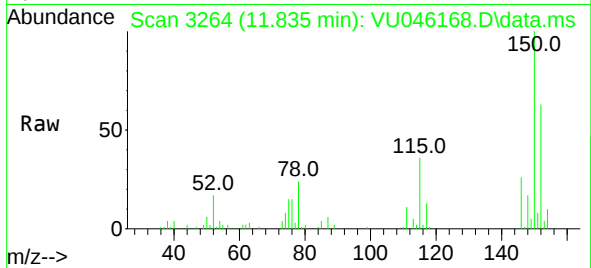




#65
1,4-Dichlorobenzene
Concen: 1.395 ug/L
RT: 11.835 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

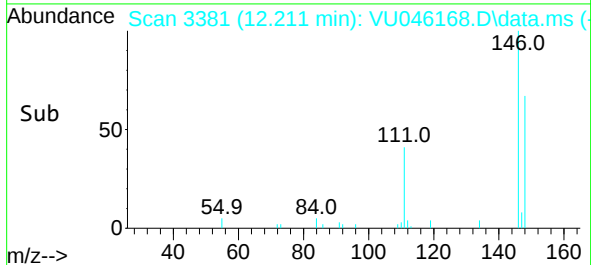
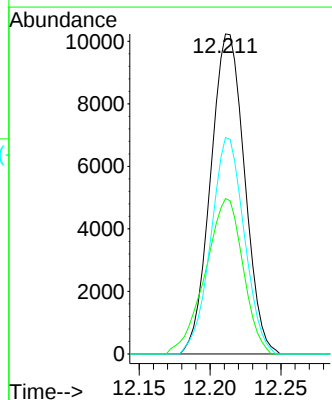
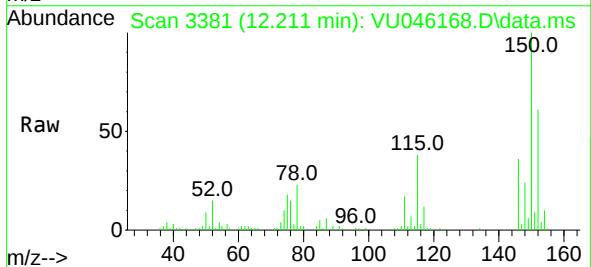
Instrument :
MSVOA_U
ClientSampleId :

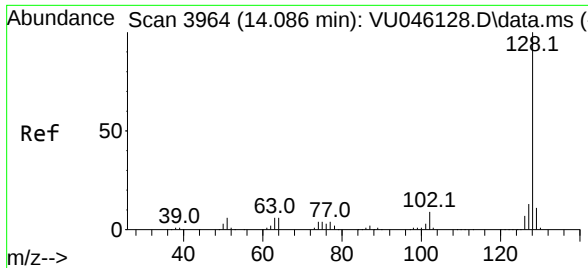
Tgt Ion:146 Resp: 4737
Ion Ratio Lower Upper
146 100
111 40.5 28.3 52.7
148 65.1 43.8 81.3



#67
1,2-Dichlorobenzene
Concen: 5.156 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. -0.003 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

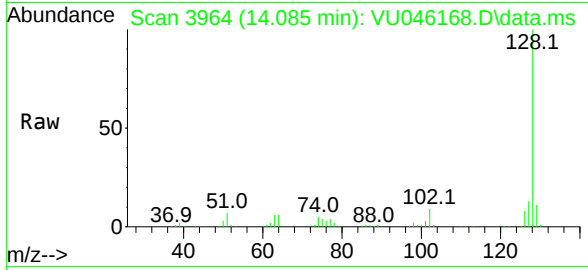
Tgt Ion:146 Resp: 17066
Ion Ratio Lower Upper
146 100
111 48.5 35.7 53.5
148 67.6 51.2 76.8





#71
Naphthalene
Concen: 29.982 ug/L
RT: 14.085 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU046168.D
Acq: 08 Dec 2021 12:13

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:128 Resp: 221718
Ion Ratio Lower Upper
128 100
127 12.8 10.1 15.1
129 11.2 8.6 13.0

