

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100421\
 Data File : VU045112.D
 Acq On : 04 Oct 2021 22:11
 Operator : SY/MD
 Sample : M4023-02 100X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AH7

Quant Time: Oct 05 07:01:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 05 02:41:56 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	293629	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	275647	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.816	152	135454	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	87578	27.246	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	54.500%#
7) Chloroethane-d5	1.900	69	61861	24.286	ug/L	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	48.580%#
11) 1,1-Dichloroethene-d2	2.572	63	279946	51.861	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.720%
21) 2-Butanone-d5	4.633	46	245607	96.650	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.650%
24) Chloroform-d	5.067	84	197742	38.950	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	77.900%
26) 1,2-Dichloroethane-d4	5.707	65	142167	41.342	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.680%
32) Benzene-d6	5.732	84	387702	40.534	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.060%
36) 1,2-Dichloropropane-d6	6.694	67	129008	41.365	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	82.720%
41) Toluene-d8	7.899	98	332882	40.328	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	80.660%
43) trans-1,3-Dichloroprop...	8.182	79	59992	43.243	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.480%
47) 2-Hexanone-d5	8.642	63	189765	109.796	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	109.800%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	227202	46.783	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.560%
66) 1,2-Dichlorobenzene-d4	12.195	152	136432	46.282	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.560%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	4382	1.276	ug/L #	1
12) 1,1-Dichloroethene	2.578	96	265952	116.962	ug/L #	72
16) Methylene chloride	3.047	84	285468	99.096	ug/L	93
19) 1,1-Dichloroethane	3.874	63	28966	5.813	ug/L	96
20) cis-1,2-Dichloroethene	4.671	96	321415	121.774	ug/L	91
25) Chloroform	5.089	83	2876	0.581	ug/L	82
27) 1,2-Dichloroethane	5.797	62	2954	0.713	ug/L	99
30) 1,1,1-Trichloroethane	5.321	97	890486	233.373	ug/L	97
31) Carbon tetrachloride	5.321	117	109393	36.298	ug/L	100
34) Trichloroethene	6.546	95	4065506	1655.598	ug/L	99
37) 1,2-Dichloropropane	6.694	63	14791	5.314	ug/L #	88
39) cis-1,3-Dichloropropene	7.571	75	3841	0.964	ug/L #	67
42) Toluene	7.973	91	18011	1.734	ug/L	94
44) trans-1,3-Dichloropropene	8.182	75	2681	0.708	ug/L #	75
45) 1,1,2-Trichloroethane	8.407	97	6309	2.501	ug/L	93
46) Tetrachloroethene	8.555	164	805	0.459	ug/L	89
48) 2-Hexanone	8.642	43	21622	5.244	ug/L #	69
52) Ethylbenzene	9.575	91	22532	2.053	ug/L	100
53) m,p-Xylene	9.693	106	36690	8.826	ug/L	97

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QLast Update : Tue Oct 05 02:41:56 2021
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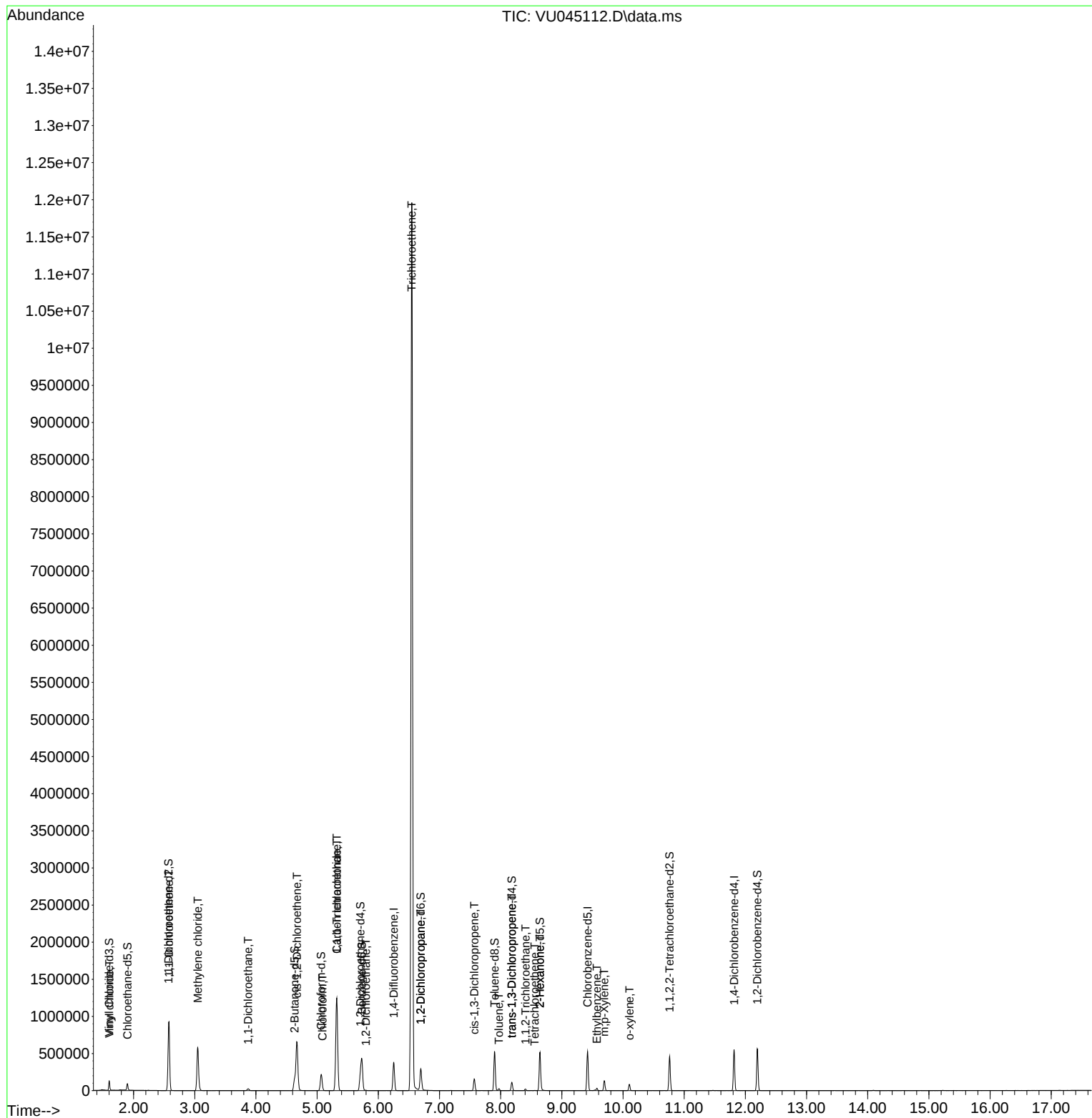
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	10.105	106	22551	5.520	ug/L	97

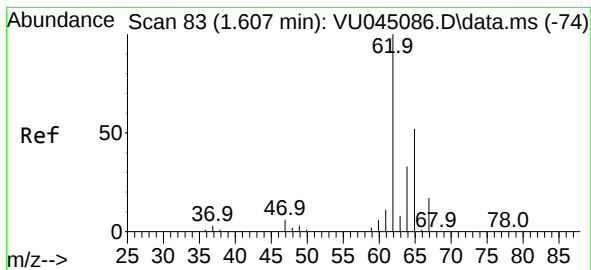
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.276 ug/L

RT: 1.607 min Scan# 83

Delta R.T. 0.000 min

Lab File: VU045112.D

Acq: 04 Oct 2021 22:11

Tgt Ion: 62 Resp: 4382

Ion Ratio Lower Upper

62 100

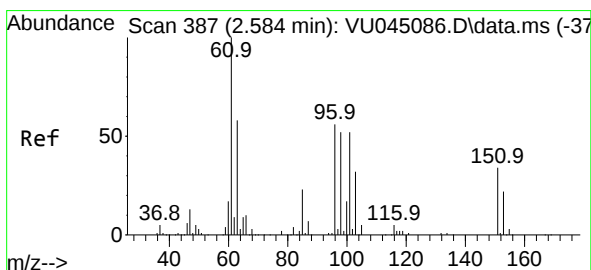
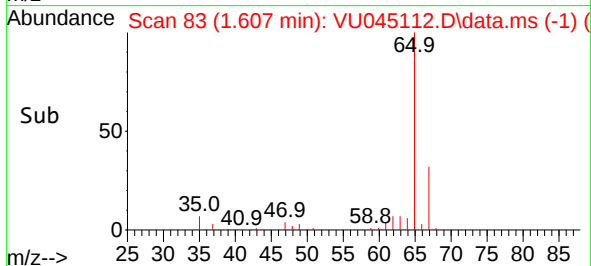
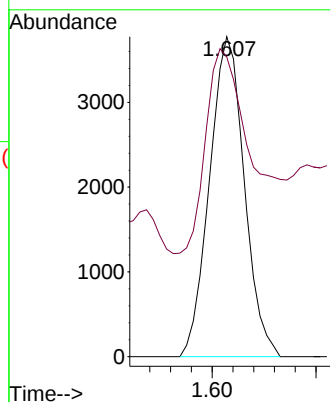
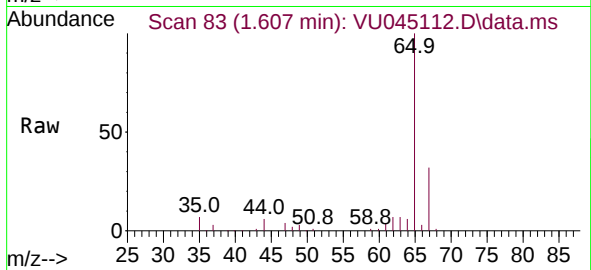
64 93.7 23.4 43.6#

Instrument :

MSVOA_U

ClientSampleId :

C0AH7



#12

1,1-Dichloroethene

Concen: 116.962 ug/L

RT: 2.578 min Scan# 385

Delta R.T. -0.006 min

Lab File: VU045112.D

Acq: 04 Oct 2021 22:11

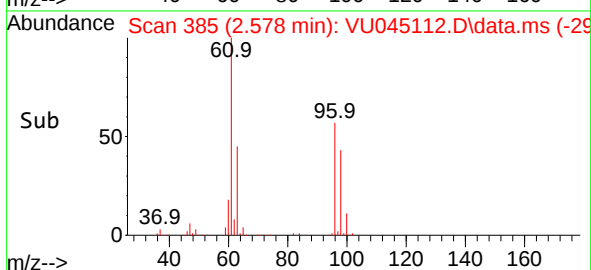
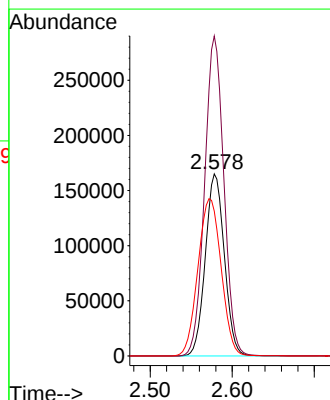
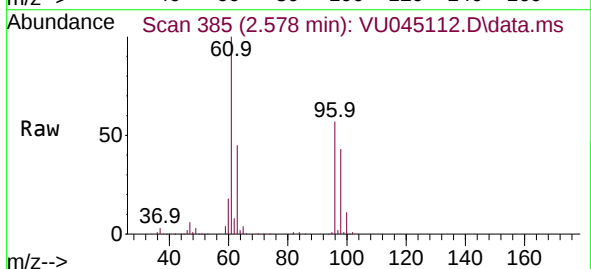
Tgt Ion: 96 Resp: 265952

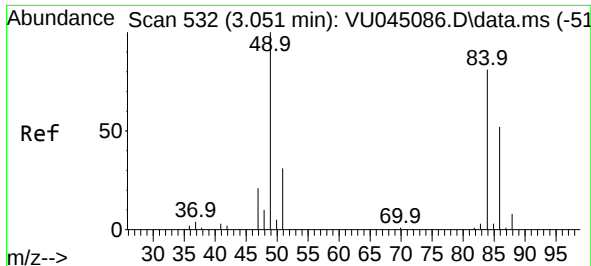
Ion Ratio Lower Upper

96 100

61 175.8 131.3 243.9

63 79.6 102.5 190.3#

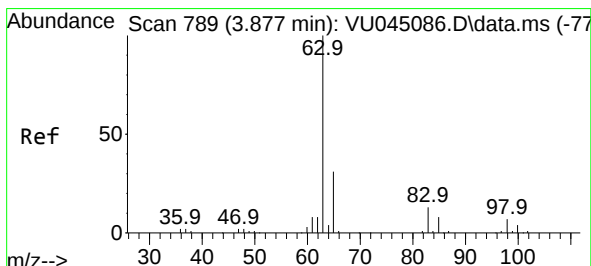
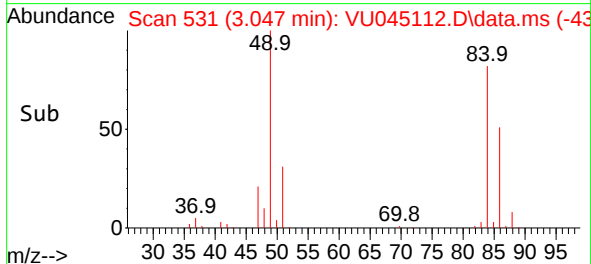
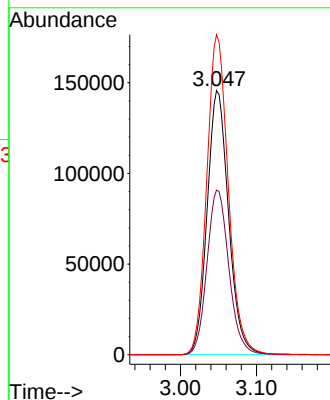
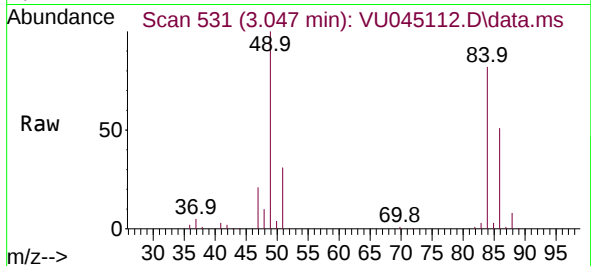




#16
Methylene chloride
Concen: 99.096 ug/L
RT: 3.047 min Scan# 531
Delta R.T. -0.003 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

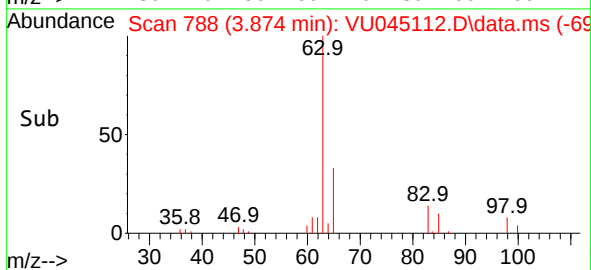
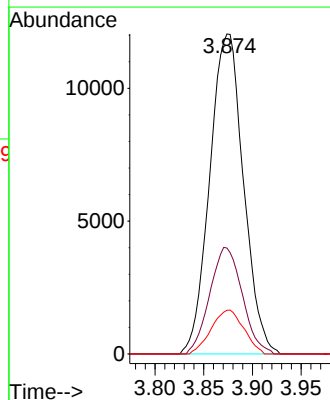
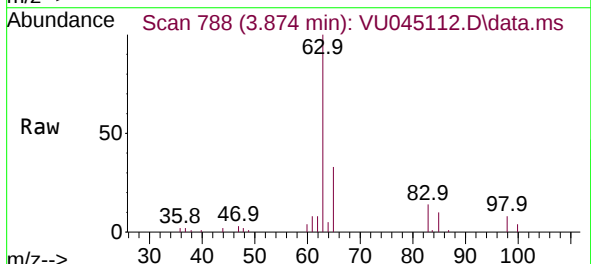
Instrument :
MSVOA_U
ClientSampleId :
C0AH7

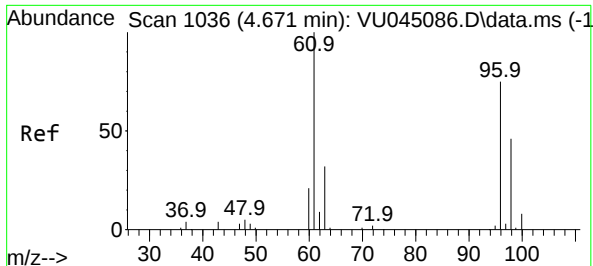
Tgt Ion: 84 Resp: 285468
Ion Ratio Lower Upper
84 100
86 62.4 44.7 83.1
49 121.2 92.9 172.5



#19
1,1-Dichloroethane
Concen: 5.813 ug/L
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

Tgt Ion: 63 Resp: 28966
Ion Ratio Lower Upper
63 100
65 33.1 22.0 40.8
83 14.7 9.0 16.6

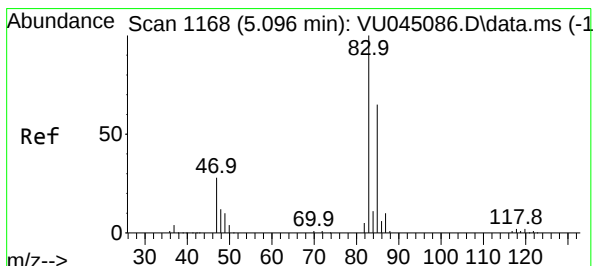
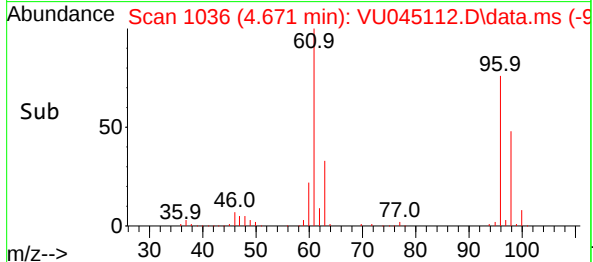
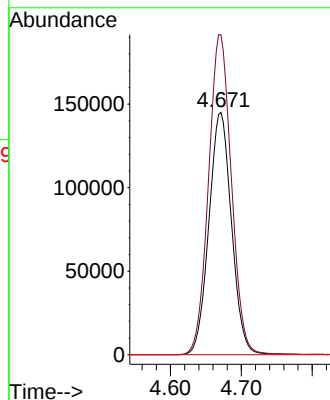
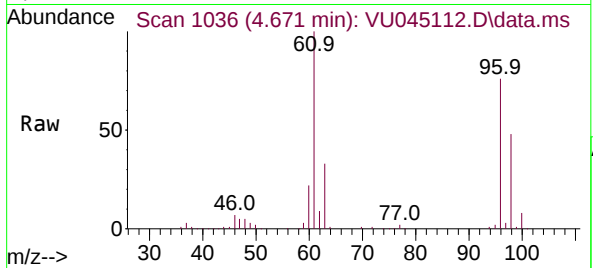




#20
cis-1,2-Dichloroethene
Concen: 121.774 ug/L
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

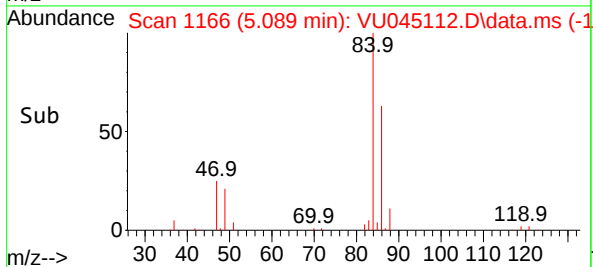
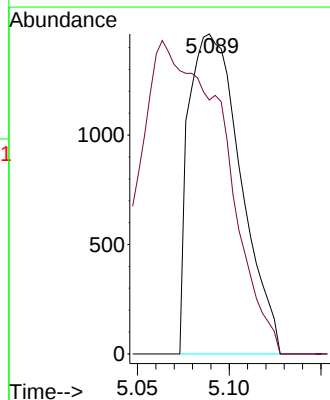
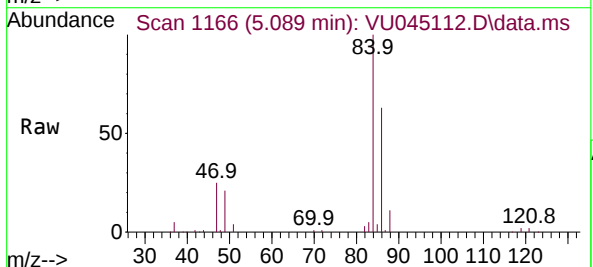
Instrument :
MSVOA_U
ClientSampleId :
C0AH7

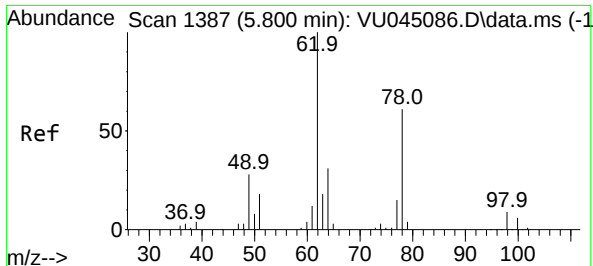
Tgt Ion: 96 Resp: 321415
Ion Ratio Lower Upper
96 100
61 132.0 100.2 186.0
68 0.0 0.0 0.0



#25
Chloroform
Concen: 0.581 ug/L
RT: 5.089 min Scan# 1166
Delta R.T. -0.006 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

Tgt Ion: 83 Resp: 2876
Ion Ratio Lower Upper
83 100
85 79.3 45.6 84.6





#27

1,2-Dichloroethane

Concen: 0.713 ug/L

RT: 5.797 min Scan# 1386

Delta R.T. -0.003 min

Lab File: VU045112.D

Acq: 04 Oct 2021 22:11

Tgt Ion: 62 Resp: 2954

Ion Ratio Lower Upper

62 100

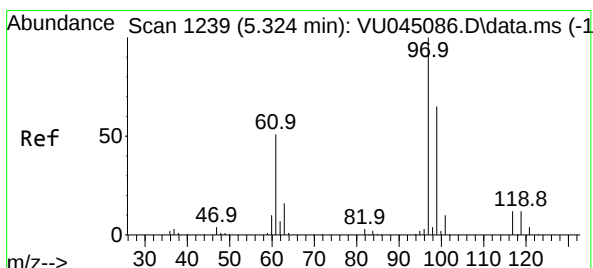
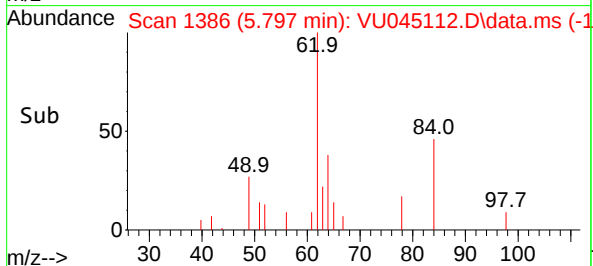
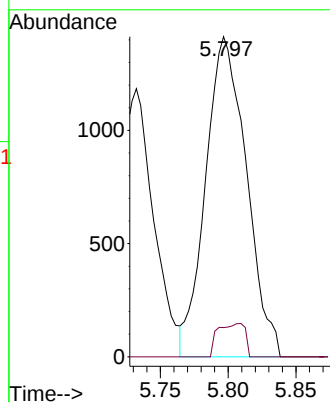
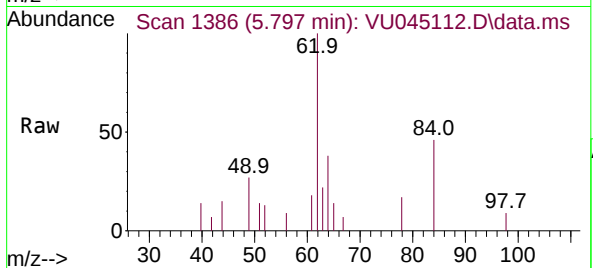
98 9.1 7.1 10.7

Instrument :

MSVOA_U

ClientSampleId :

C0AH7



#30

1,1,1-Trichloroethane

Concen: 233.373 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.003 min

Lab File: VU045112.D

Acq: 04 Oct 2021 22:11

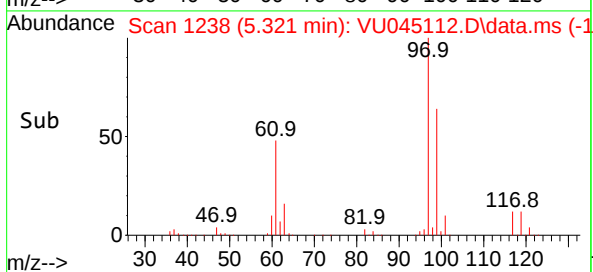
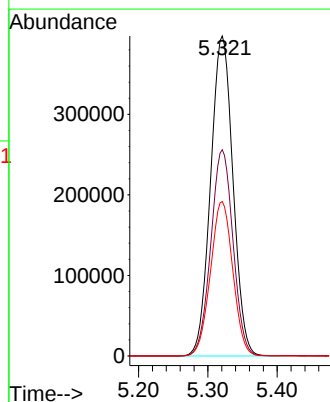
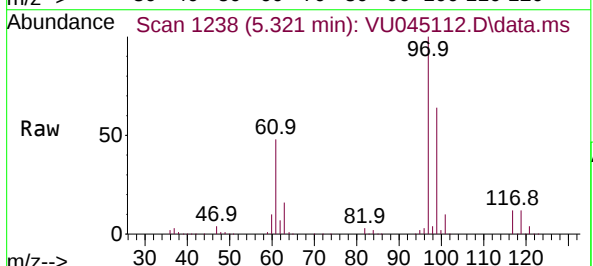
Tgt Ion: 97 Resp: 890486

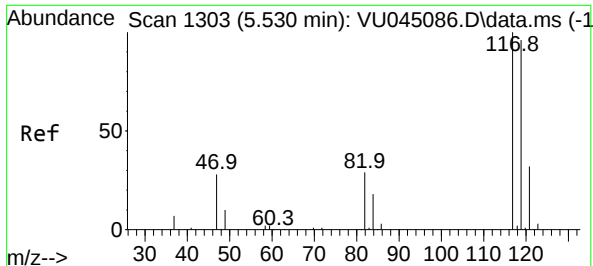
Ion Ratio Lower Upper

97 100

99 64.0 50.6 75.8

61 48.3 41.3 61.9

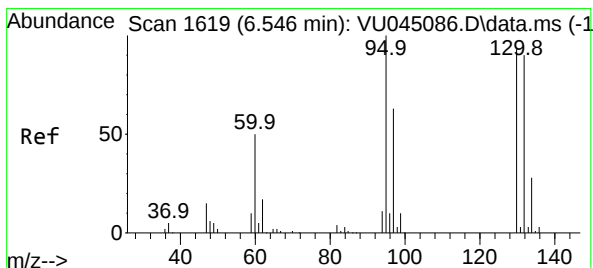
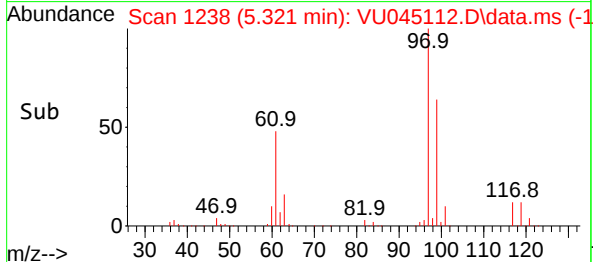
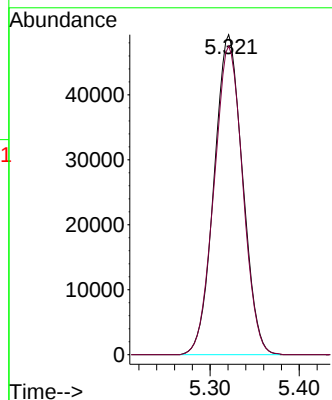
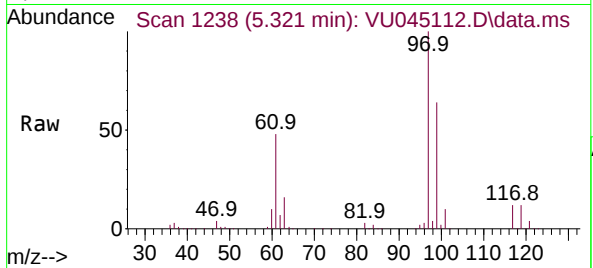




#31
Carbon tetrachloride
Concen: 36.298 ug/L
RT: 5.321 min Scan# 1238
Delta R.T. -0.209 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

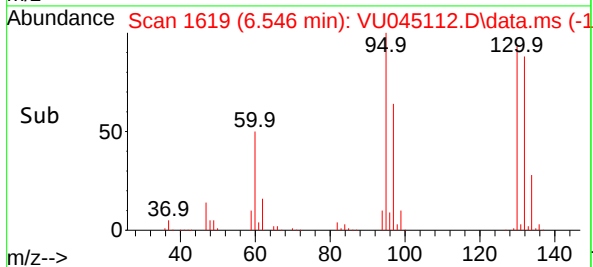
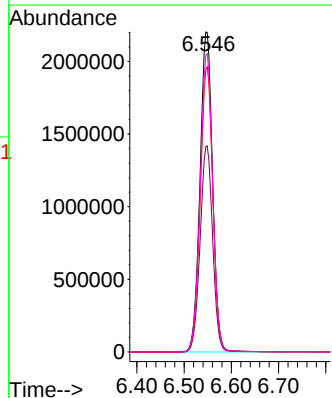
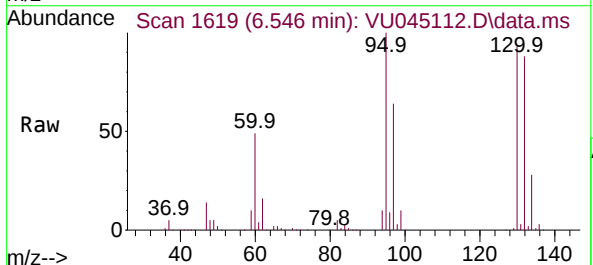
Instrument :
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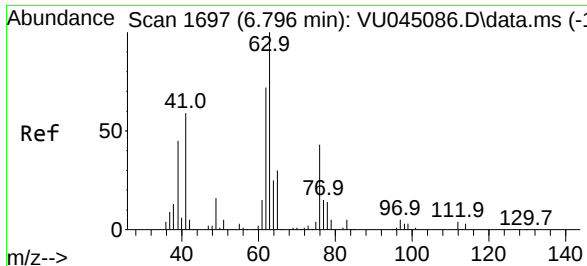
Tgt Ion:117 Resp: 109393
Ion Ratio Lower Upper
117 100
119 97.3 77.7 116.5



#34
Trichloroethene
Concen: 1655.598 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

Tgt Ion: 95 Resp: 4065506
Ion Ratio Lower Upper
95 100
97 64.2 44.4 82.4
132 88.2 62.9 116.9
130 92.7 65.0 120.8



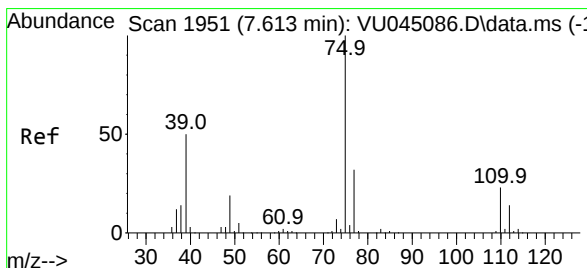
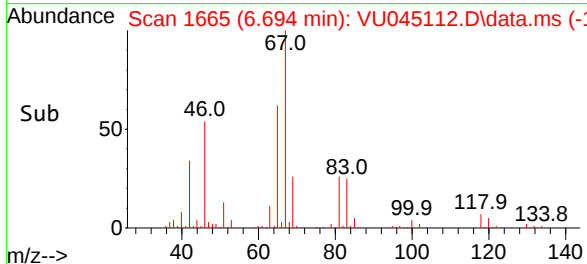
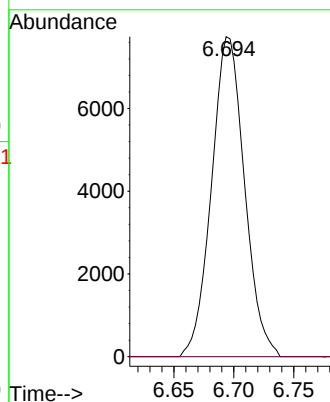
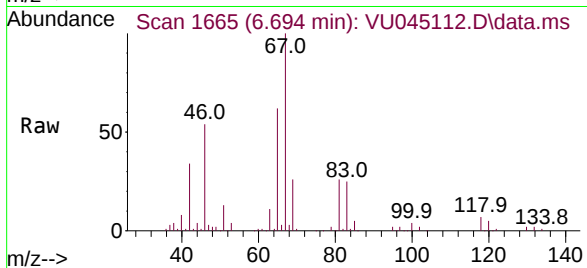


#37

1,2-Dichloropropane
Concen: 5.314 ug/L
RT: 6.694 min Scan# 1665
Delta R.T. -0.103 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

Instrument :
MSVOA_U
ClientSampleId :
C0AH7

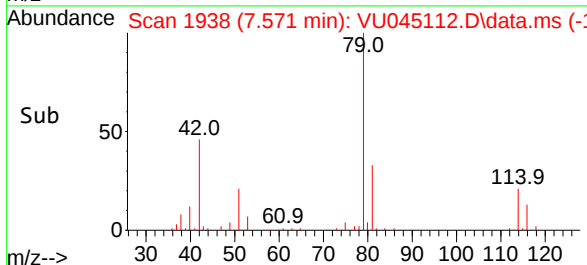
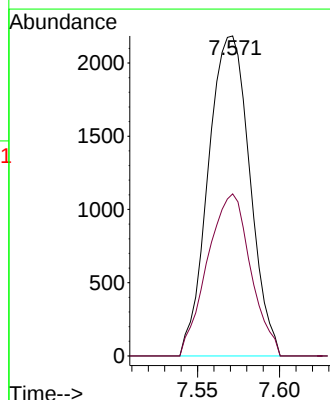
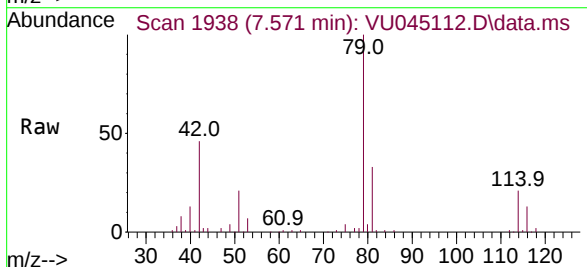
Tgt Ion: 63 Resp: 14791
Ion Ratio Lower Upper
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112 0.0 3.2 4.8#

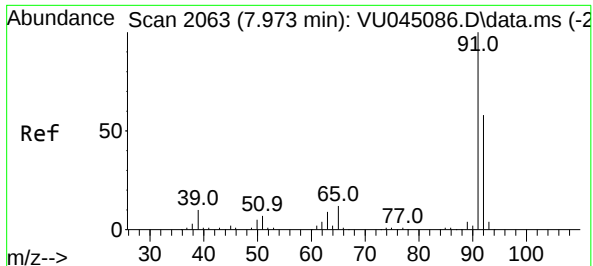


#39

cis-1,3-Dichloropropene
Concen: 0.964 ug/L
RT: 7.571 min Scan# 1938
Delta R.T. -0.042 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

Tgt Ion: 75 Resp: 3841
Ion Ratio Lower Upper
75 100
77 50.6 22.4 41.6#

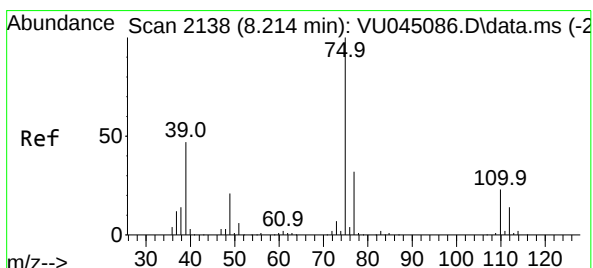
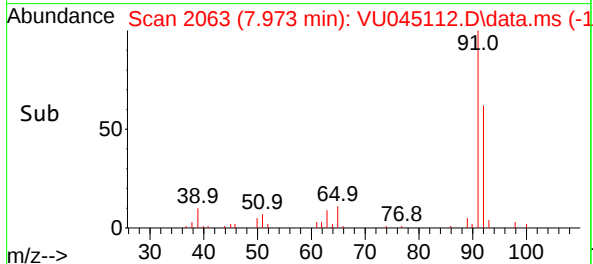
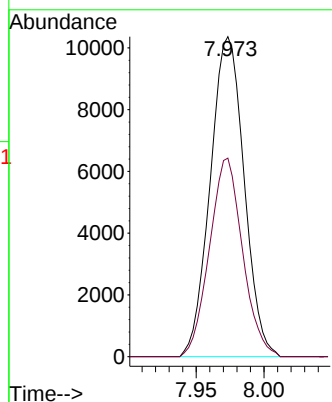
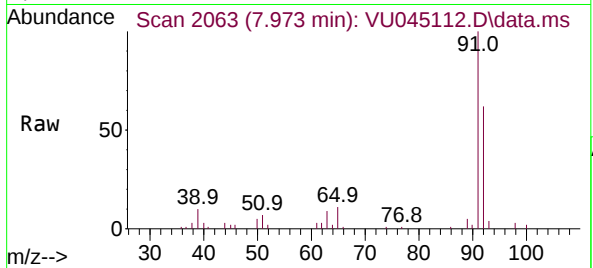




#42
Toluene
Concen: 1.734 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

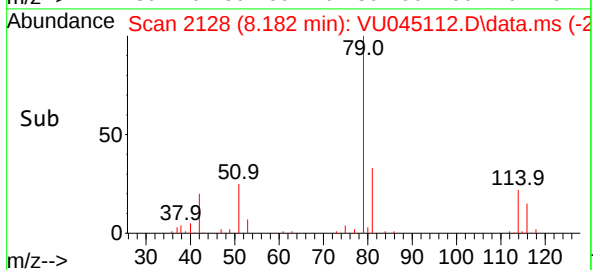
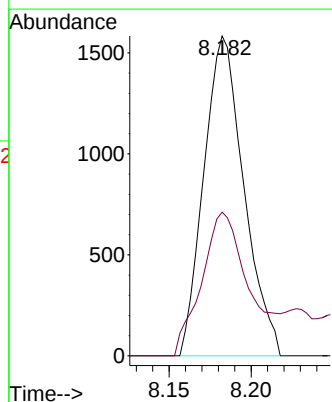
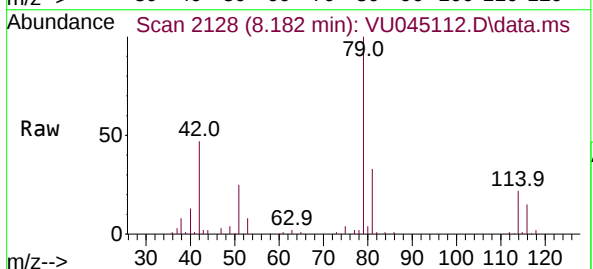
Instrument :
MSVOA_U
ClientSampleId :
C0AH7

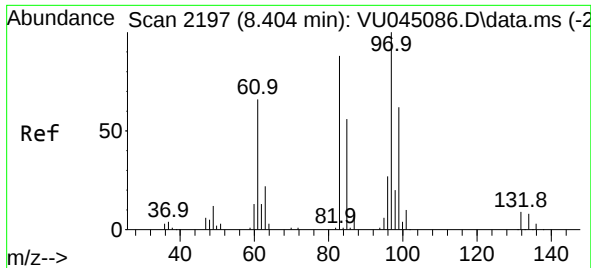
Tgt Ion: 91 Resp: 18011
Ion Ratio Lower Upper
91 100
92 62.0 40.5 75.1



#44
trans-1,3-Dichloropropene
Concen: 0.708 ug/L
RT: 8.182 min Scan# 2128
Delta R.T. -0.032 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

Tgt Ion: 75 Resp: 2681
Ion Ratio Lower Upper
75 100
77 44.9 21.7 40.3#

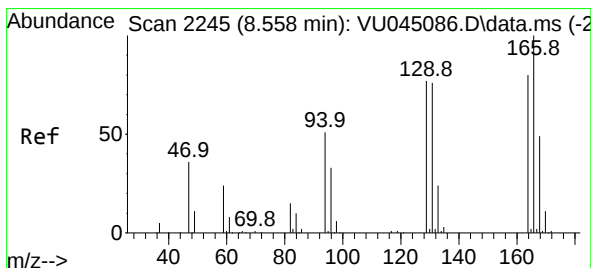
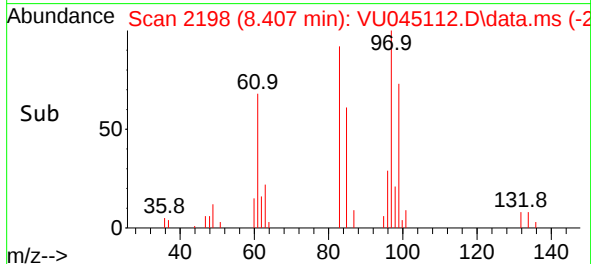
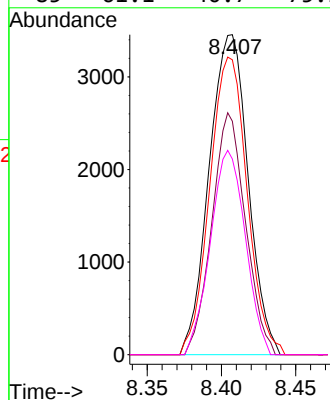
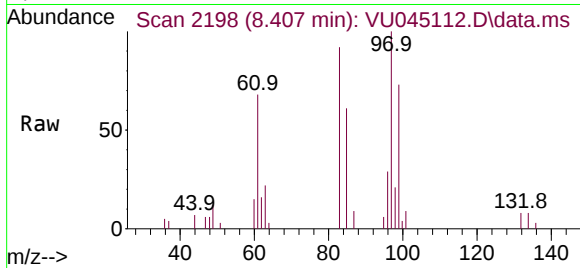




#45
1,1,2-Trichloroethane
Concen: 2.501 ug/L
RT: 8.407 min Scan# 2198
Delta R.T. 0.003 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

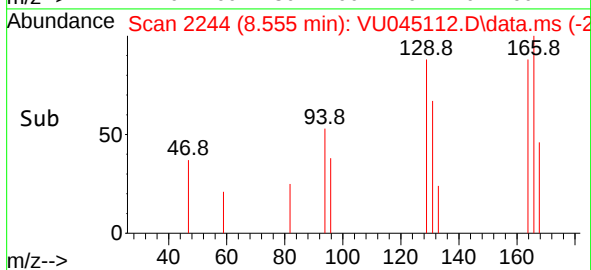
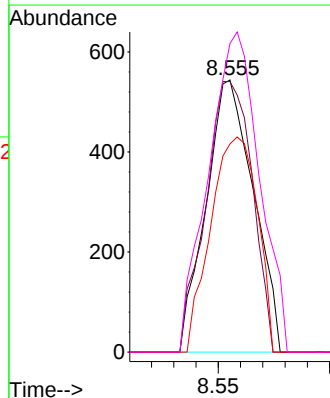
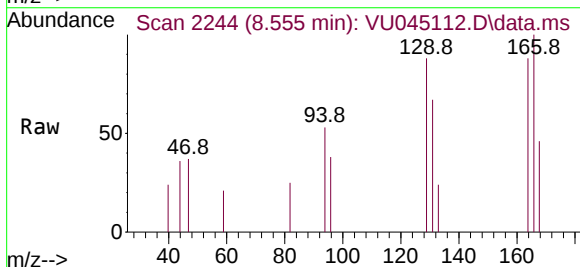
Instrument :
MSVOA_U
ClientSampleId :
C0AH7

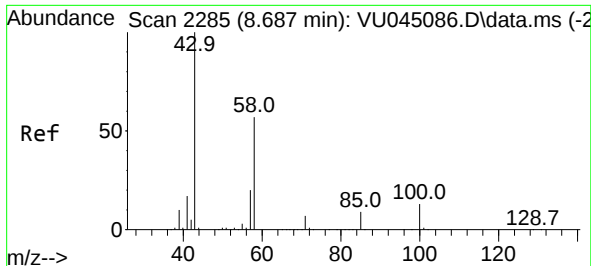
Tgt Ion:	97	Resp:	6309
Ion	Ratio	Lower	Upper
97	100		
99	72.9	43.7	81.1
83	92.1	61.9	115.1
85	61.1	40.7	75.5



#46
Tetrachloroethene
Concen: 0.459 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.003 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

Tgt Ion:	164	Resp:	805
Ion	Ratio	Lower	Upper
164	100		
129	99.4	69.8	129.6
131	76.5	66.4	123.2
166	113.4	91.1	169.3

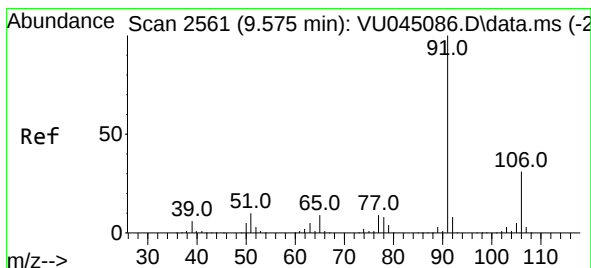
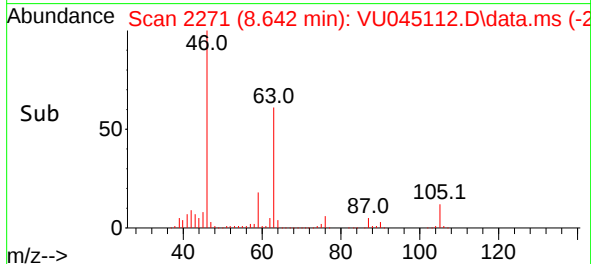
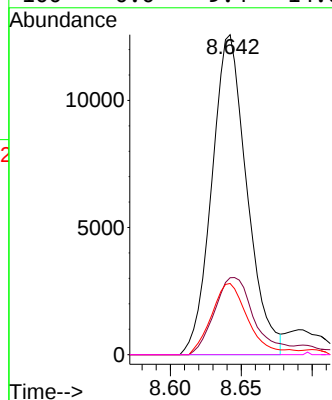
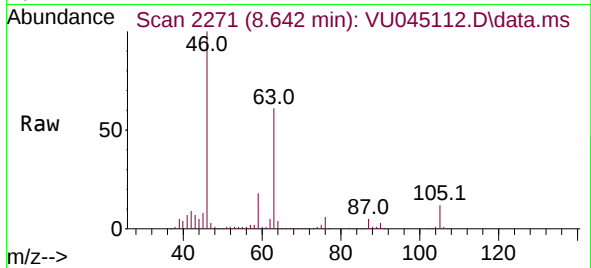




#48
2-Hexanone
Concen: 5.244 ug/L
RT: 8.642 min Scan# 2271
Delta R.T. -0.045 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

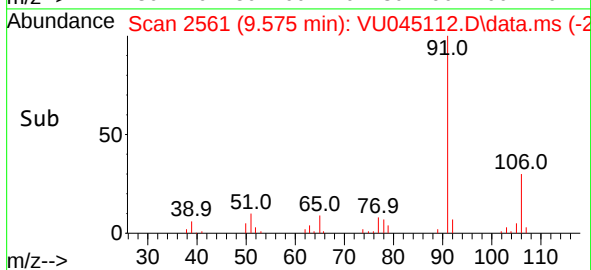
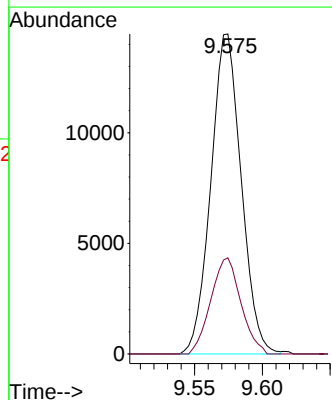
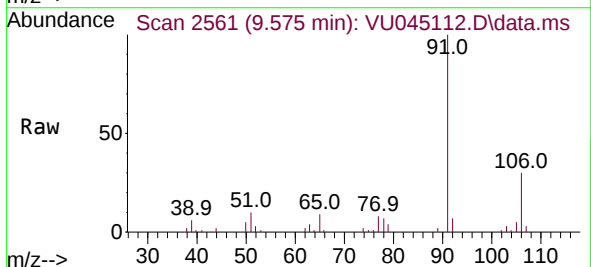
Instrument :
MSVOA_U
ClientSampleId :
C0AH7

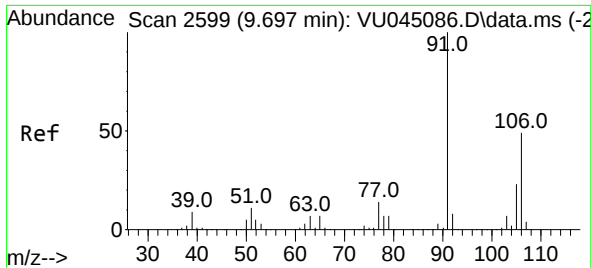
Tgt Ion:	43	Resp:	21622
Ion	Ratio	Lower	Upper
43	100		
58	27.6	44.9	67.3#
57	22.7	15.5	23.3
100	0.0	9.4	14.0#



#52
Ethylbenzene
Concen: 2.053 ug/L
RT: 9.575 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

Tgt Ion:	91	Resp:	22532
Ion	Ratio	Lower	Upper
91	100		
106	30.0	21.2	39.4

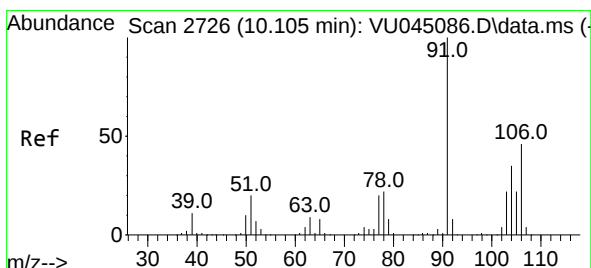
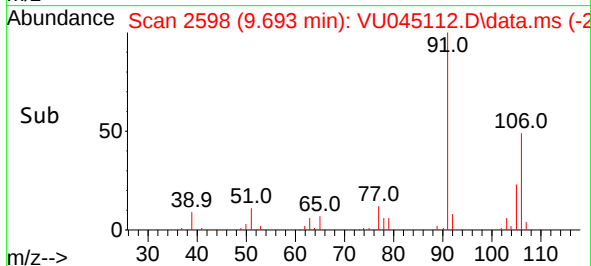
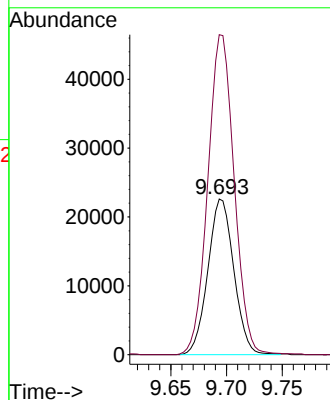
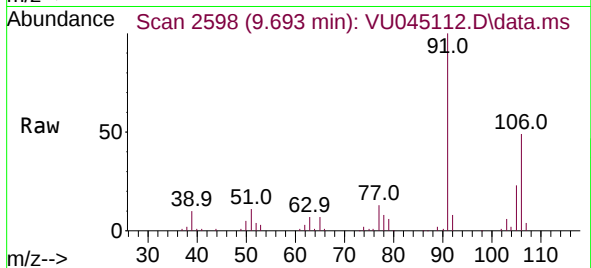




#53
m,p-Xylene
Concen: 8.826 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

Instrument :
MSVOA_U
ClientSampleId :
C0AH7

Tgt Ion:106 Resp: 36690
Ion Ratio Lower Upper
106 100
91 205.6 146.7 272.4



#54
o-xylene
Concen: 5.520 ug/L
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU045112.D
Acq: 04 Oct 2021 22:11

Tgt Ion:106 Resp: 22551
Ion Ratio Lower Upper
106 100
91 213.6 152.9 283.9

