

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100421\
 Data File : VU045114.D
 Acq On : 04 Oct 2021 22:58
 Operator : SY/MD
 Sample : M4023-11 100X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AK0

Quant Time: Oct 05 07:02:23 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	298282	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	278937	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.816	152	136356	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	84800	25.970	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	51.940%#
7) Chloroethane-d5	1.896	69	44240	17.097	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	34.200%#
11) 1,1-Dichloroethene-d2	2.568	63	188340	34.346	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.700%
21) 2-Butanone-d5	4.633	46	246838	95.619	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.620%
24) Chloroform-d	5.067	84	196713	38.143	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	76.280%
26) 1,2-Dichloroethane-d4	5.707	65	141531	40.515	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.020%
32) Benzene-d6	5.732	84	388217	40.109	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.220%
36) 1,2-Dichloropropane-d6	6.694	67	129365	40.990	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	81.980%
41) Toluene-d8	7.903	98	330568	39.576	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.160%#
43) trans-1,3-Dichloroprop...	8.182	79	58950	41.991	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.980%
47) 2-Hexanone-d5	8.642	63	191544	109.518	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	109.520%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	228538	46.503	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.000%
66) 1,2-Dichlorobenzene-d4	12.198	152	134072	45.180	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.360%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	12298	3.526	ug/L #	66
8) Chloroethane	1.607	64	4963	2.267	ug/L	92
12) 1,1-Dichloroethene	2.578	96	103139	44.652	ug/L	87
16) Methylene chloride	3.047	84	585671	200.137	ug/L	94
19) 1,1-Dichloroethane	3.874	63	60278	11.908	ug/L	98
20) cis-1,2-Dichloroethene	4.671	96	580693	216.575	ug/L	93
25) Chloroform	5.089	83	3385	0.673	ug/L	81
27) 1,2-Dichloroethane	5.800	62	3224	0.766	ug/L	100
30) 1,1,1-Trichloroethane	5.321	97	544692	141.066	ug/L	98
31) Carbon tetrachloride	5.321	117	68407	22.431	ug/L	98
34) Trichloroethene	6.546	95	1210738	487.234	ug/L	99
37) 1,2-Dichloropropane	6.694	63	15153	5.380	ug/L #	88
39) cis-1,3-Dichloropropene	7.571	75	3682	0.914	ug/L #	58
42) Toluene	7.973	91	11033	1.050	ug/L	95
44) trans-1,3-Dichloropropene	8.186	75	2922	0.762	ug/L	84
45) 1,1,2-Trichloroethane	8.404	97	5080	1.990	ug/L	93
48) 2-Hexanone	8.642	43	21487	5.150	ug/L #	66
52) Ethylbenzene	9.575	91	7512	0.676	ug/L	100
53) m,p-Xylene	9.694	106	10319	2.453	ug/L	96

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QLast Update : Tue Oct 05 02:41:56 2021
Response via : Initial Calibration

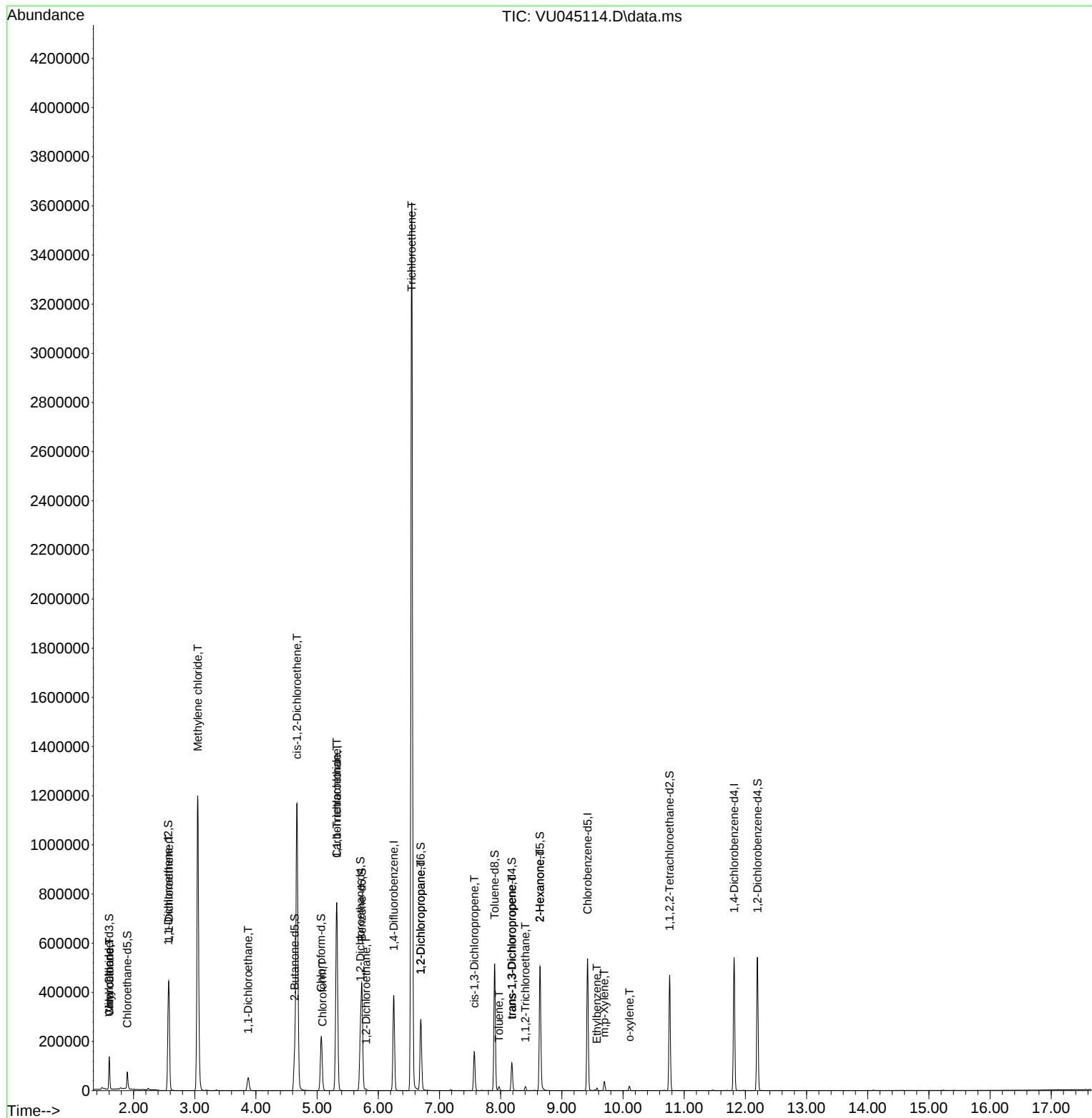
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	10.105	106	4613	1.116	ug/L	95

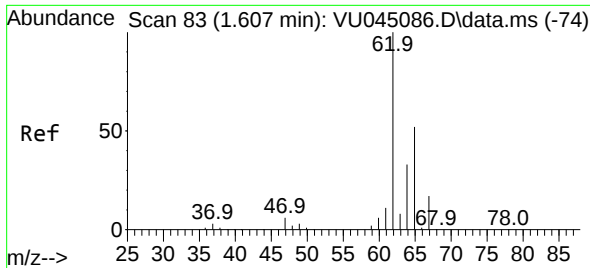
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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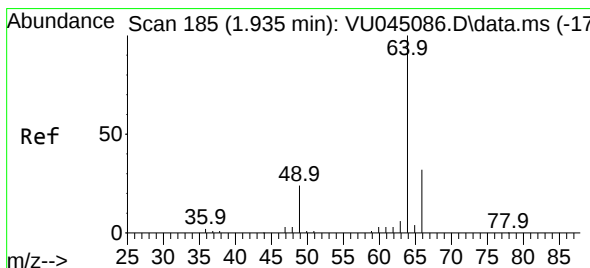
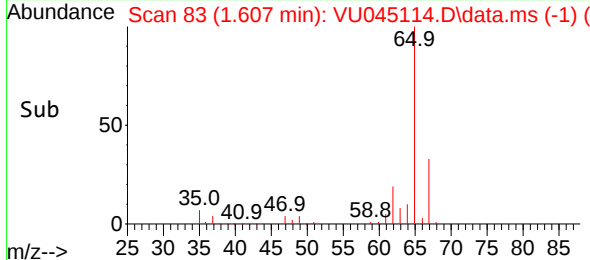
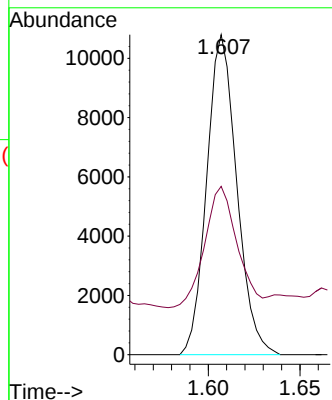
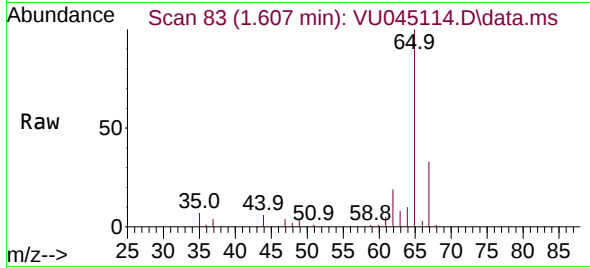




#5
 Vinyl chloride
 Concen: 3.526 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VU045114.D
 Acq: 04 Oct 2021 22:58

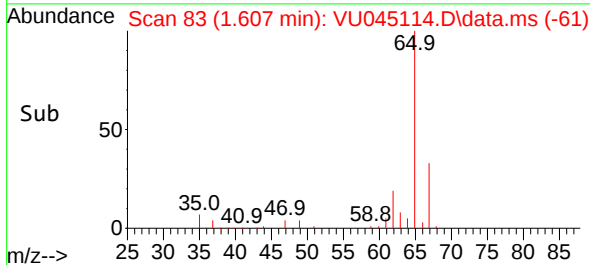
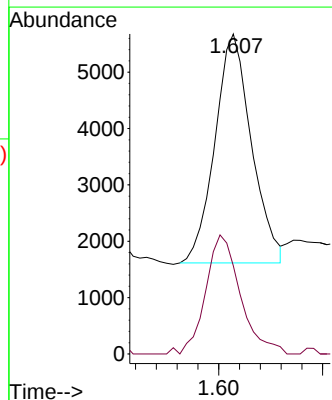
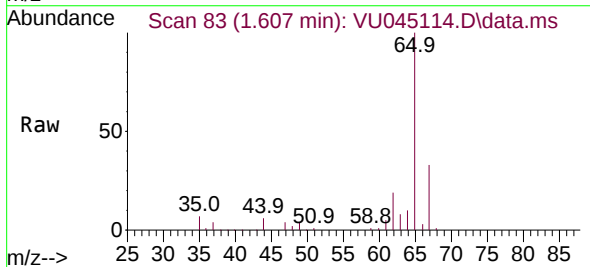
Instrument :
 MSVOA_U
 ClientSampled :
 C0AK0

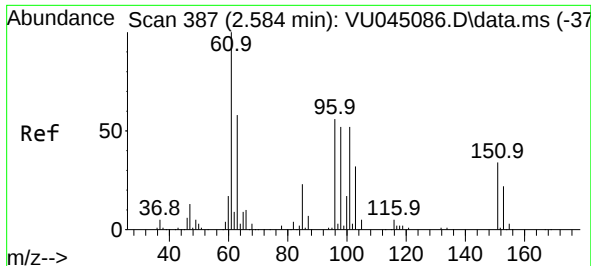
Tgt Ion: 62 Resp: 12298
 Ion Ratio Lower Upper
 62 100
 64 52.6 23.4 43.6#



#8
 Chloroethane
 Concen: 2.267 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. -0.328 min
 Lab File: VU045114.D
 Acq: 04 Oct 2021 22:58

Tgt Ion: 64 Resp: 4963
 Ion Ratio Lower Upper
 64 100
 66 27.5 22.3 41.3

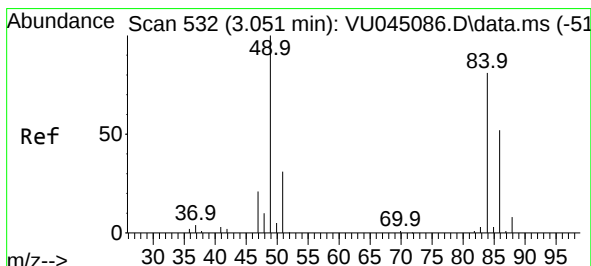
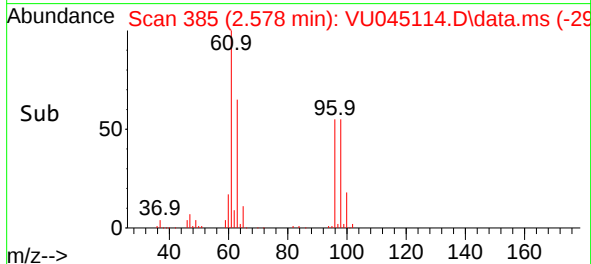
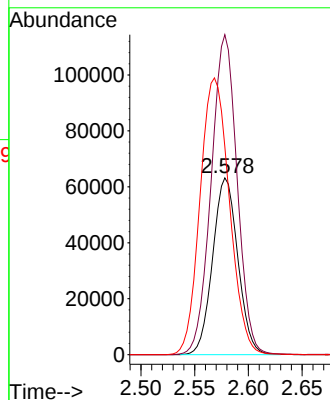
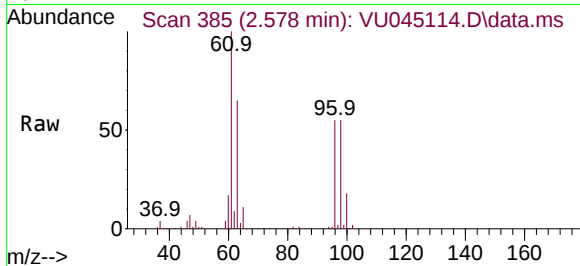




#12
1,1-Dichloroethene
Concen: 44.652 ug/L
RT: 2.578 min Scan# 385
Delta R.T. -0.006 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

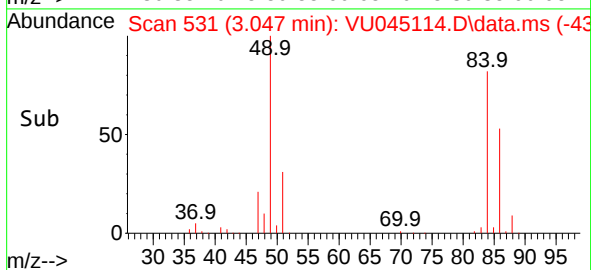
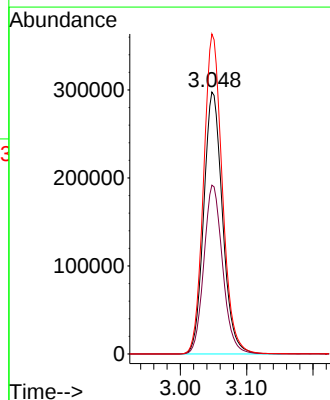
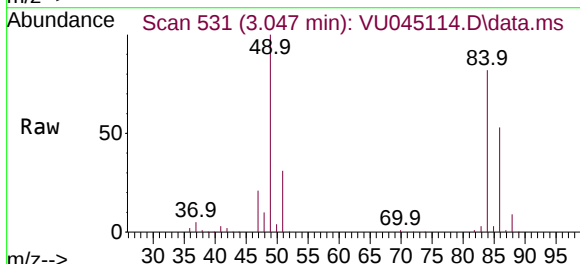
Instrument :
MSVOA_U
ClientSampleId :
C0AK0

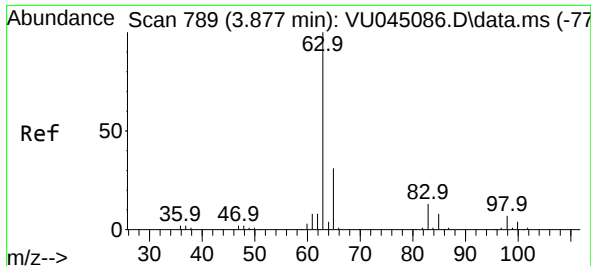
Tgt Ion: 96 Resp: 103139
Ion Ratio Lower Upper
96 100
61 181.0 131.3 243.9
63 117.7 102.5 190.3



#16
Methylene chloride
Concen: 200.137 ug/L
RT: 3.047 min Scan# 531
Delta R.T. -0.003 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

Tgt Ion: 84 Resp: 585671
Ion Ratio Lower Upper
84 100
86 64.5 44.7 83.1
49 122.2 92.9 172.5





#19

1,1-Dichloroethane

Concen: 11.908 ug/L

RT: 3.874 min Scan# 788

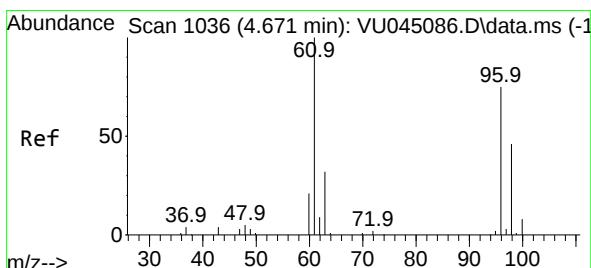
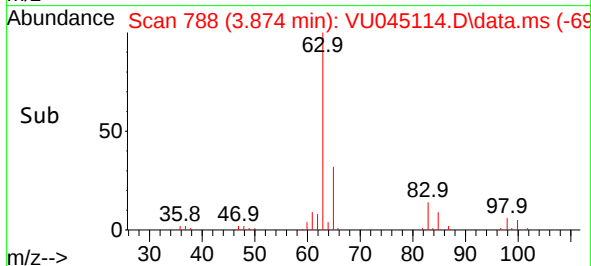
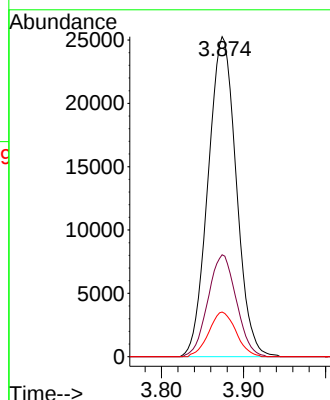
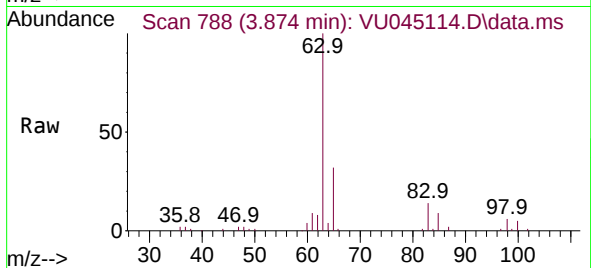
Delta R.T. -0.003 min

Lab File: VU045114.D

Acq: 04 Oct 2021 22:58

Tgt Ion: 63	Resp: 60278
Ion Ratio	Lower Upper
63 100	
65 32.5	22.0 40.8
83 14.0	9.0 16.6

Instrument :
MSVOA_U
ClientSampleId :
C0AK0



#20

cis-1,2-Dichloroethene

Concen: 216.575 ug/L

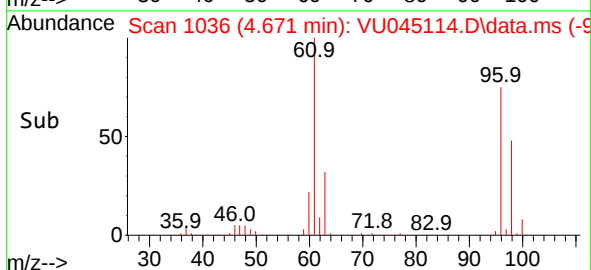
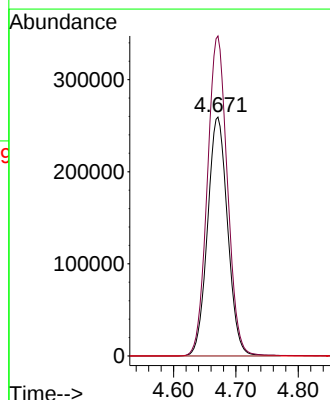
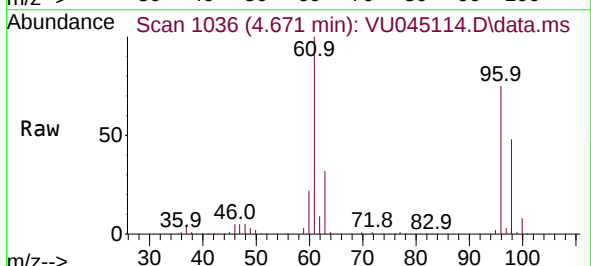
RT: 4.671 min Scan# 1036

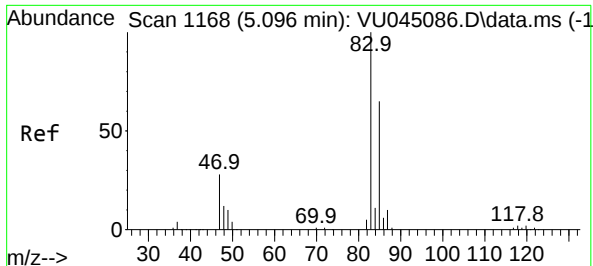
Delta R.T. 0.000 min

Lab File: VU045114.D

Acq: 04 Oct 2021 22:58

Tgt Ion: 96	Resp: 580693
Ion Ratio	Lower Upper
96 100	
61 134.0	100.2 186.0
68 0.0	0.0 0.0





#25

Chloroform

Concen: 0.673 ug/L

RT: 5.089 min Scan# 1166

Delta R.T. -0.006 min

Lab File: VU045114.D

Acq: 04 Oct 2021 22:58

Instrument :

MSVOA_U

ClientSampleId :

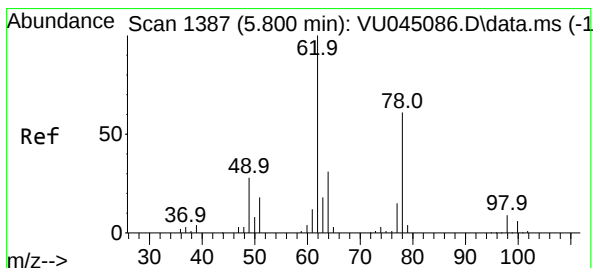
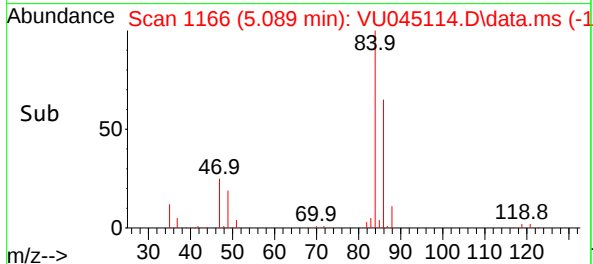
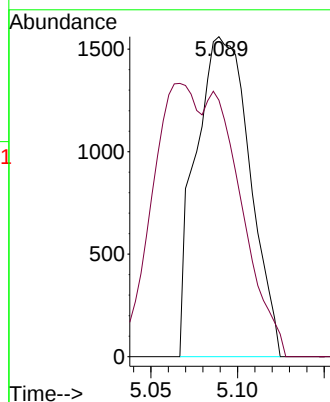
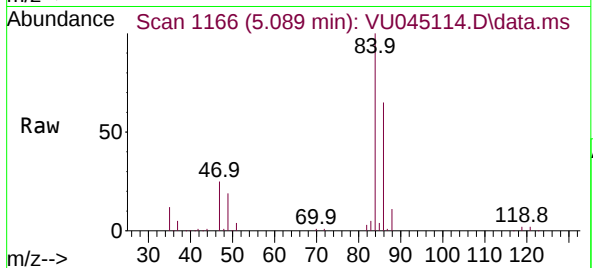
C0AK0

Tgt Ion: 83 Resp: 3385

Ion Ratio Lower Upper

83 100

85 80.1 45.6 84.6



#27

1,2-Dichloroethane

Concen: 0.766 ug/L

RT: 5.800 min Scan# 1387

Delta R.T. 0.000 min

Lab File: VU045114.D

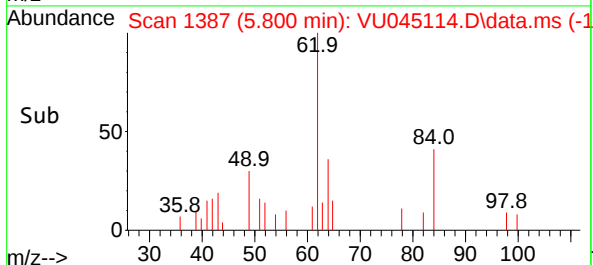
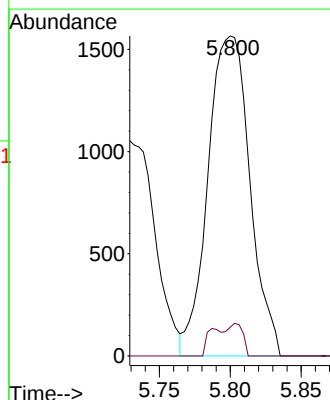
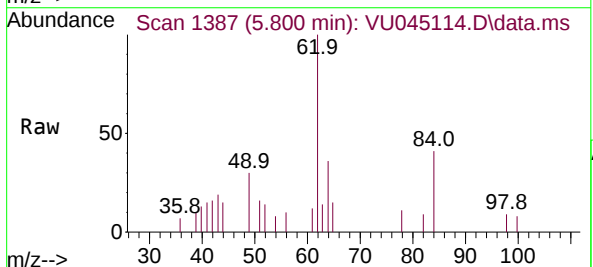
Acq: 04 Oct 2021 22:58

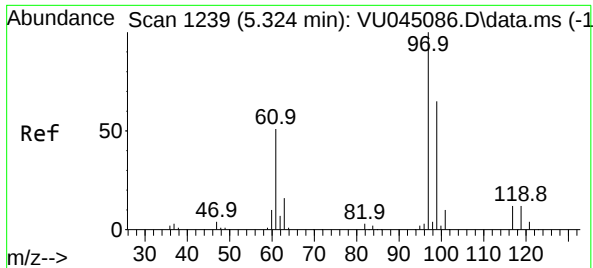
Tgt Ion: 62 Resp: 3224

Ion Ratio Lower Upper

62 100

98 8.9 7.1 10.7

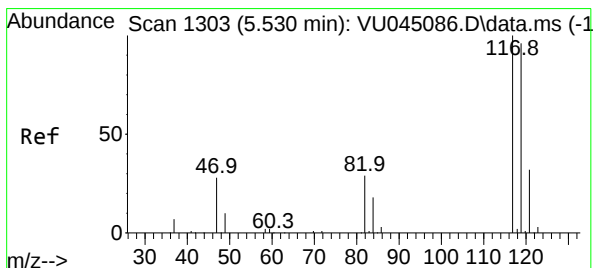
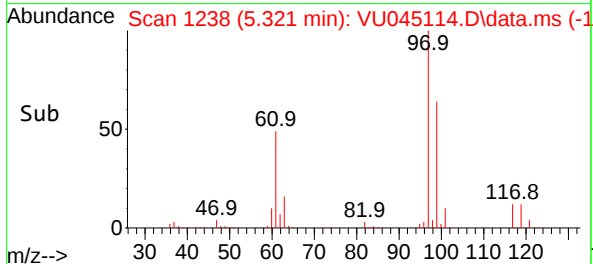
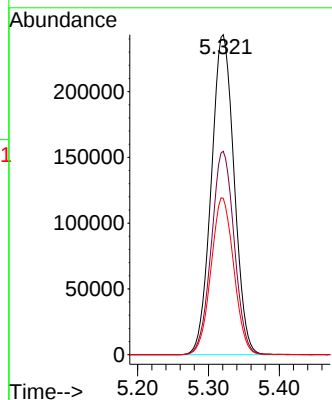
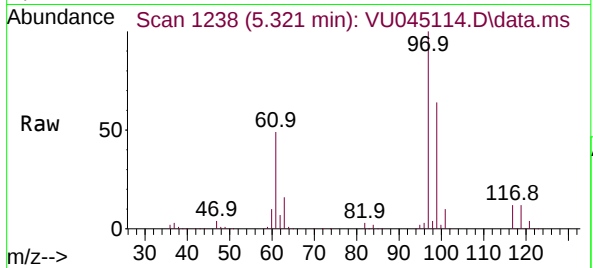




#30
1,1,1-Trichloroethane
Concen: 141.066 ug/L
RT: 5.321 min Scan# 1238
Delta R.T. -0.003 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

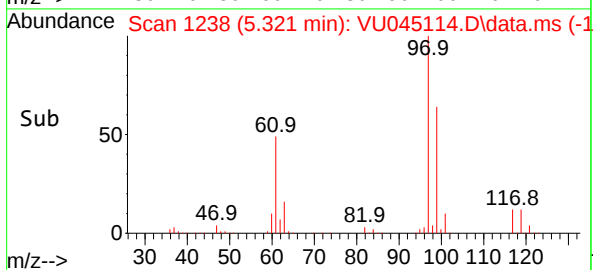
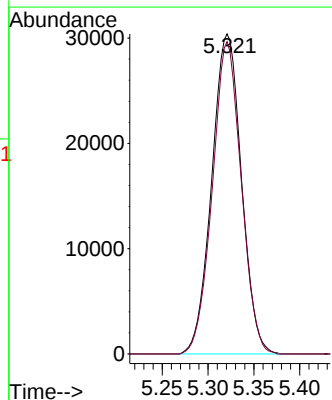
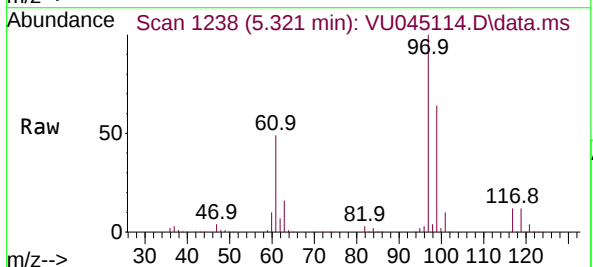
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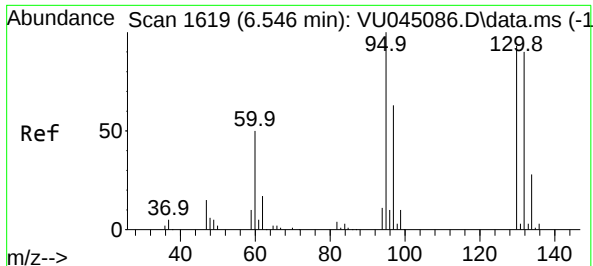
Tgt Ion: 97 Resp: 544692
Ion Ratio Lower Upper
97 100
99 63.5 50.6 75.8
61 48.9 41.3 61.9



#31
Carbon tetrachloride
Concen: 22.431 ug/L
RT: 5.321 min Scan# 1238
Delta R.T. -0.209 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

Tgt Ion: 117 Resp: 68407
Ion Ratio Lower Upper
117 100
119 94.7 77.7 116.5

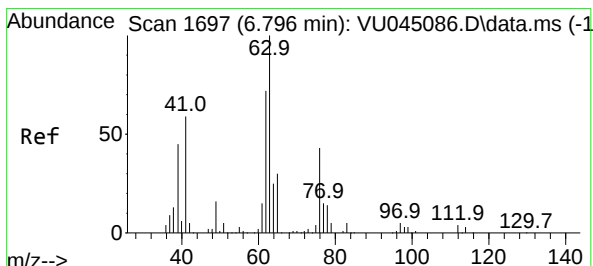
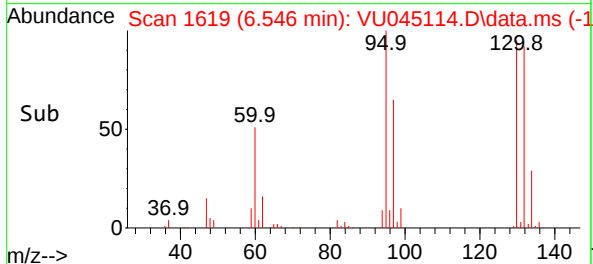
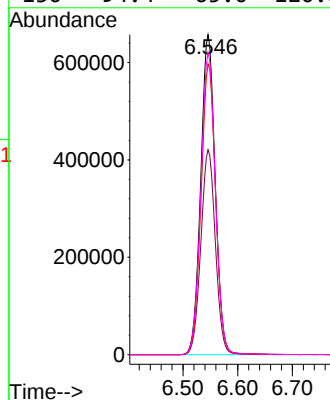
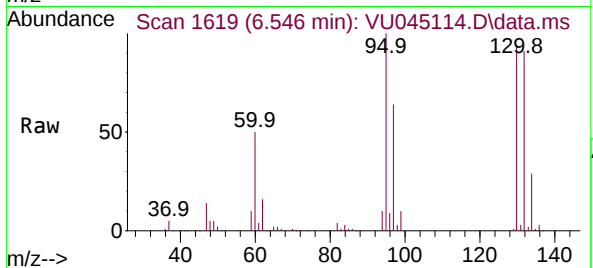




#34
Trichloroethene
Concen: 487.234 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

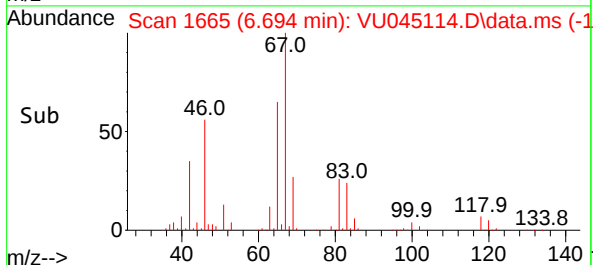
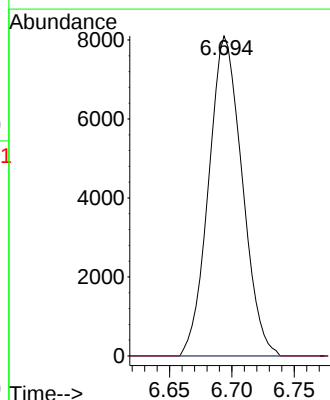
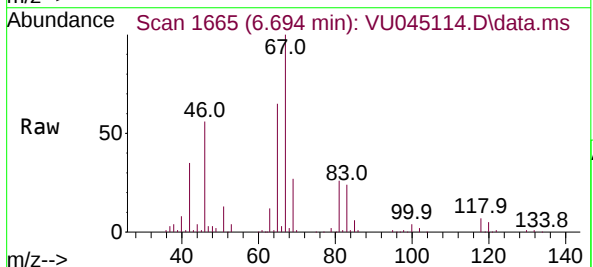
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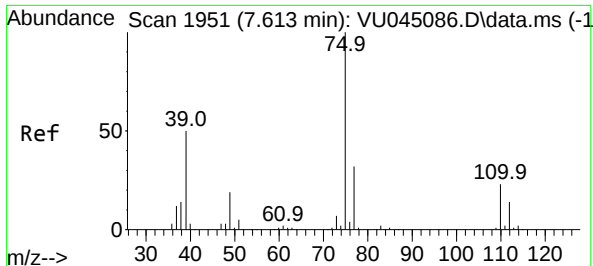
Tgt Ion: 95 Resp: 1210738
Ion Ratio Lower Upper
95 100
97 64.1 44.4 82.4
132 90.9 62.9 116.9
130 94.4 65.0 120.8



#37
1,2-Dichloropropane
Concen: 5.380 ug/L
RT: 6.694 min Scan# 1665
Delta R.T. -0.103 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

Tgt Ion: 63 Resp: 15153
Ion Ratio Lower Upper
63 100
112 0.0 3.2 4.8#



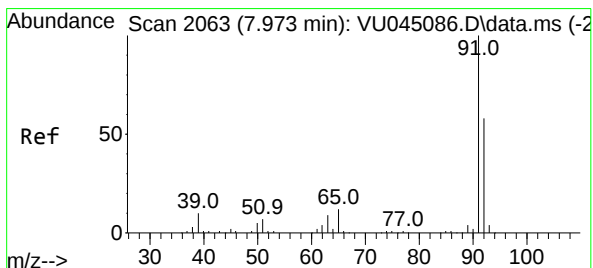
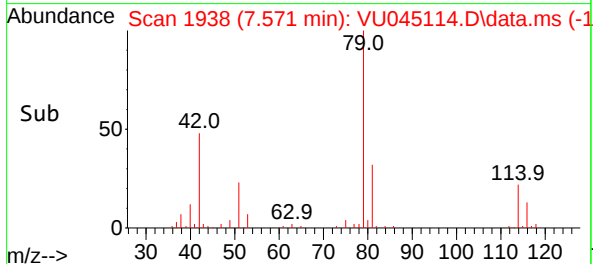
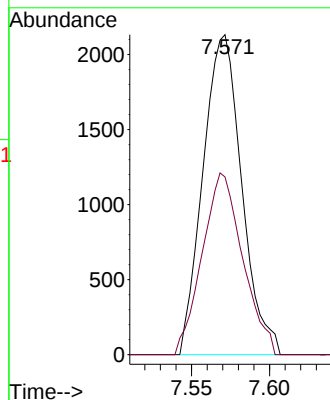
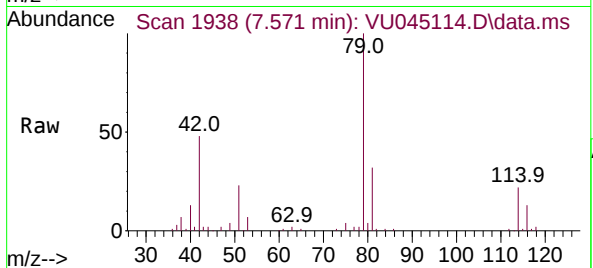


#39

cis-1,3-Dichloropropene
Concen: 0.914 ug/L
RT: 7.571 min Scan# 1938
Delta R.T. -0.042 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

Instrument :
MSVOA_U
ClientSampled :
C0AK0

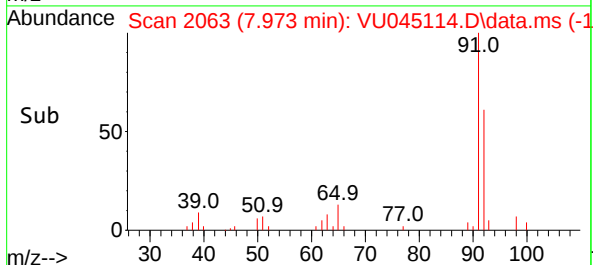
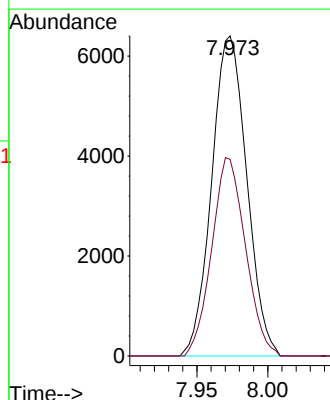
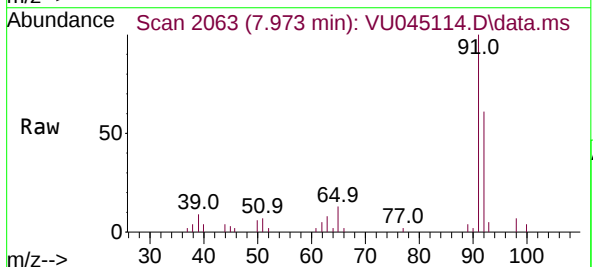
Tgt Ion: 75 Resp: 3682
Ion Ratio Lower Upper
75 100
77 55.5 22.4 41.6#

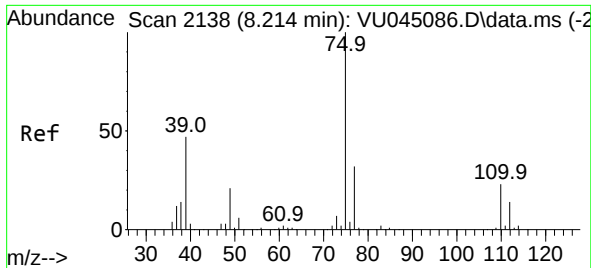


#42

Toluene
Concen: 1.050 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

Tgt Ion: 91 Resp: 11033
Ion Ratio Lower Upper
91 100
92 61.4 40.5 75.1

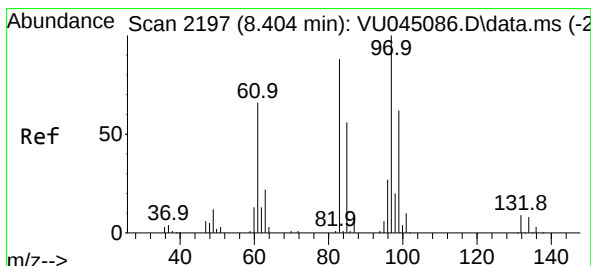
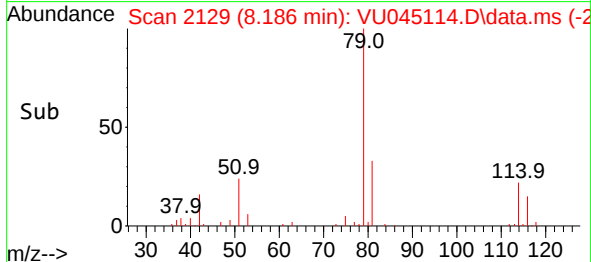
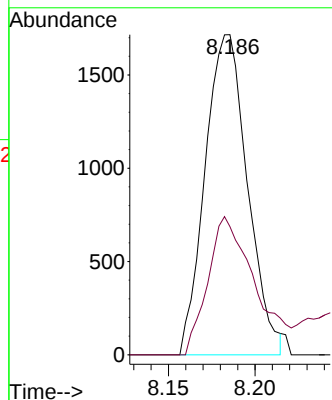
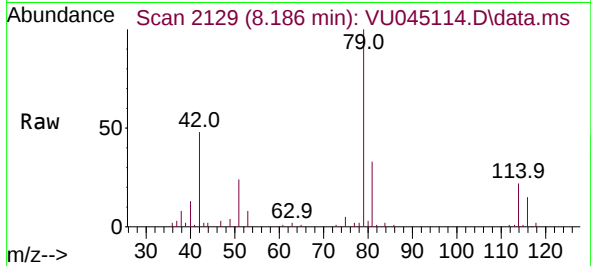




#44
trans-1,3-Dichloropropene
Concen: 0.762 ug/L
RT: 8.186 min Scan# 2129
Delta R.T. -0.029 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

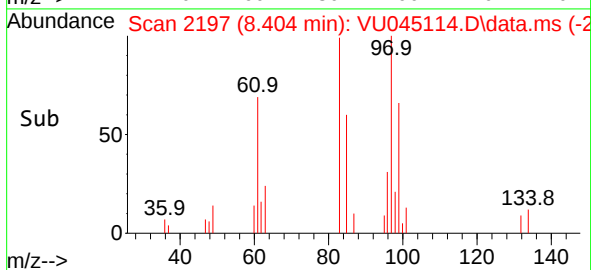
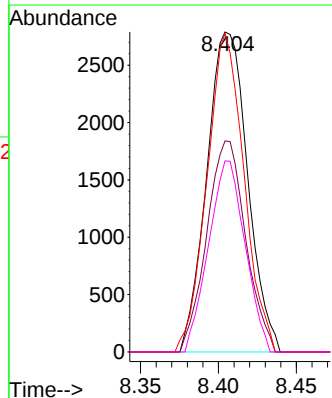
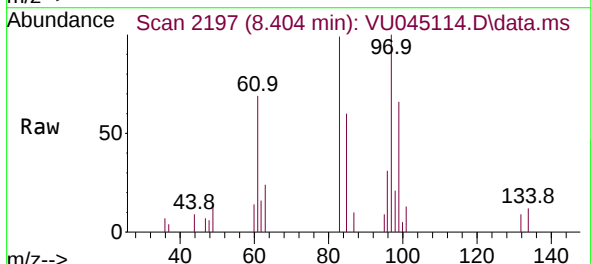
Instrument :
MSVOA_U
ClientSampleId :
C0AK0

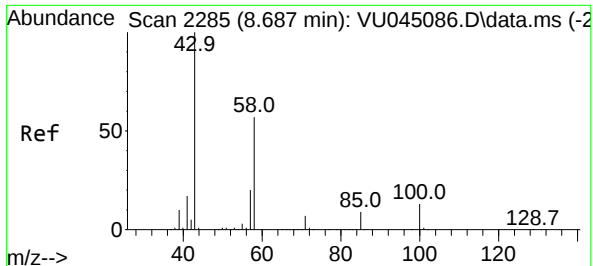
Tgt Ion: 75 Resp: 2922
Ion Ratio Lower Upper
75 100
77 40.0 21.7 40.3



#45
1,1,2-Trichloroethane
Concen: 1.990 ug/L
RT: 8.404 min Scan# 2197
Delta R.T. 0.000 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

Tgt Ion: 97 Resp: 5080
Ion Ratio Lower Upper
97 100
99 65.9 43.7 81.1
83 99.5 61.9 115.1
85 59.7 40.7 75.5

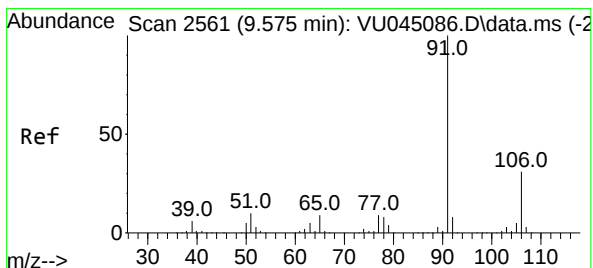
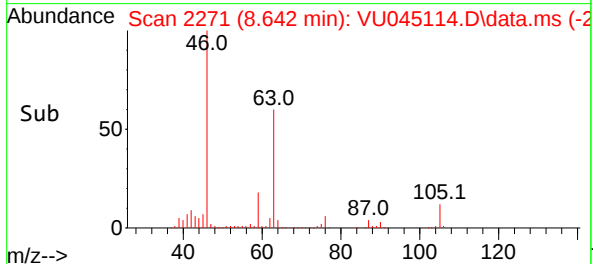
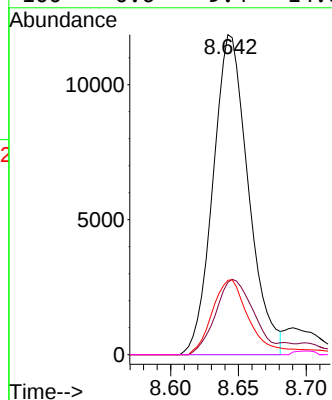
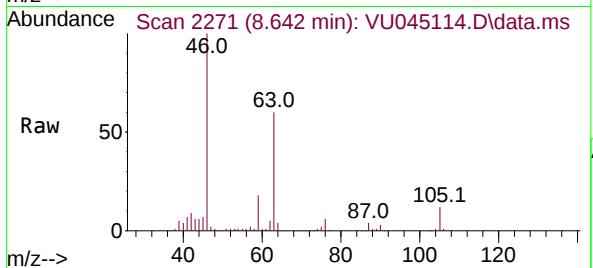




#48
2-Hexanone
Concen: 5.150 ug/L
RT: 8.642 min Scan# 2271
Delta R.T. -0.045 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

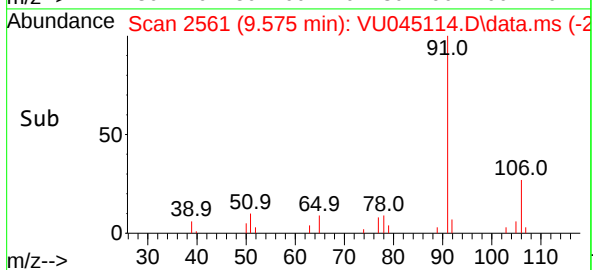
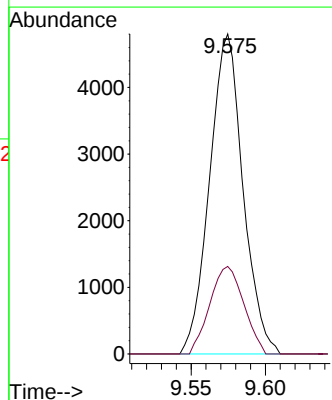
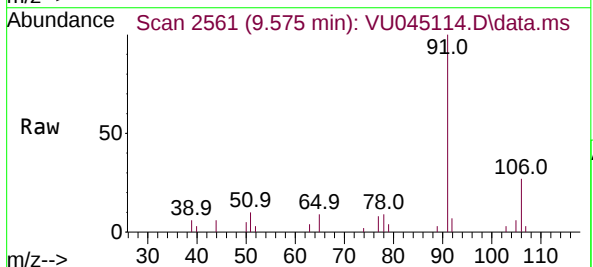
Instrument :
MSVOA_U
ClientSampled :
C0AK0

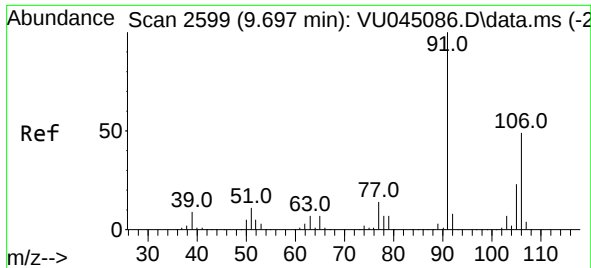
Tgt Ion:	43	Resp:	21487
Ion	Ratio	Lower	Upper
43	100		
58	25.4	44.9	67.3#
57	25.7	15.5	23.3#
100	0.6	9.4	14.0#



#52
Ethylbenzene
Concen: 0.676 ug/L
RT: 9.575 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

Tgt Ion:	91	Resp:	7512
Ion	Ratio	Lower	Upper
91	100		
106	30.5	21.2	39.4

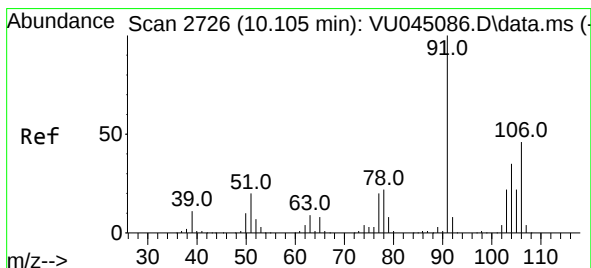
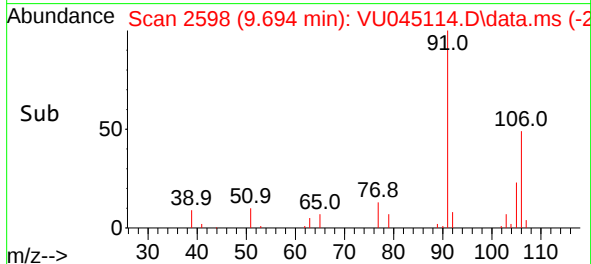
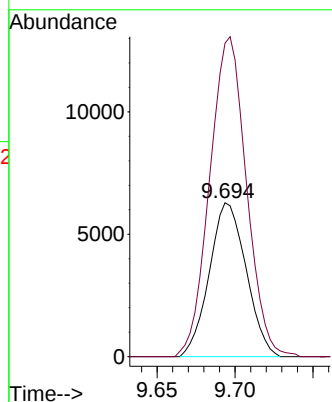
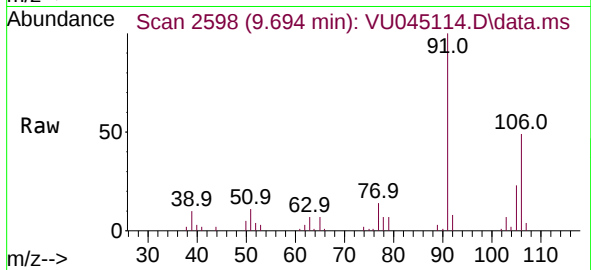




#53
m,p-Xylene
Concen: 2.453 ug/L
RT: 9.694 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

Instrument :
MSVOA_U
ClientSampleId :
C0AK0

Tgt Ion:106 Resp: 10319
Ion Ratio Lower Upper
106 100
91 203.6 146.7 272.4



#54
o-xylene
Concen: 1.116 ug/L
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU045114.D
Acq: 04 Oct 2021 22:58

Tgt Ion:106 Resp: 4613
Ion Ratio Lower Upper
106 100
91 226.7 152.9 283.9

