

Data File : VU033894.D
Acq On : 22 Aug 2019 00:06
Operator : JC/SP
Sample : K4454-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
F2B99

Quant Time: Aug 22 07:24:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 22 07:18:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	400587	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	403367	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	167165	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	162031	44.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.92%
7) Chloroethane-d5	1.67	69	136252	40.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.84%
11) 1,1-Dichloroethene-d2	2.26	63	202212	33.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.14%
21) 2-Butanone-d5	4.15	46	208172	110.14	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.14%
24) Chloroform-d	4.62	84	253843	43.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.52%
26) 1,2-Dichloroethane-d4	5.29	65	172734	47.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.20%
32) Benzene-d6	5.31	84	513432	45.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.38%
36) 1,2-Dichloropropane-d6	6.31	67	174256	47.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.14%
41) Toluene-d8	7.55	98	448902	42.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.96%
43) trans-1,3-Dichloropropene-	7.83	79	69983	40.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.94%
47) 2-Hexanone-d5	8.30	63	130296	96.57	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.57%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	246842	48.75	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.50%
64) 1,2-Dichlorobenzene-d4	11.85	152	172298	51.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.44%

Target Compounds

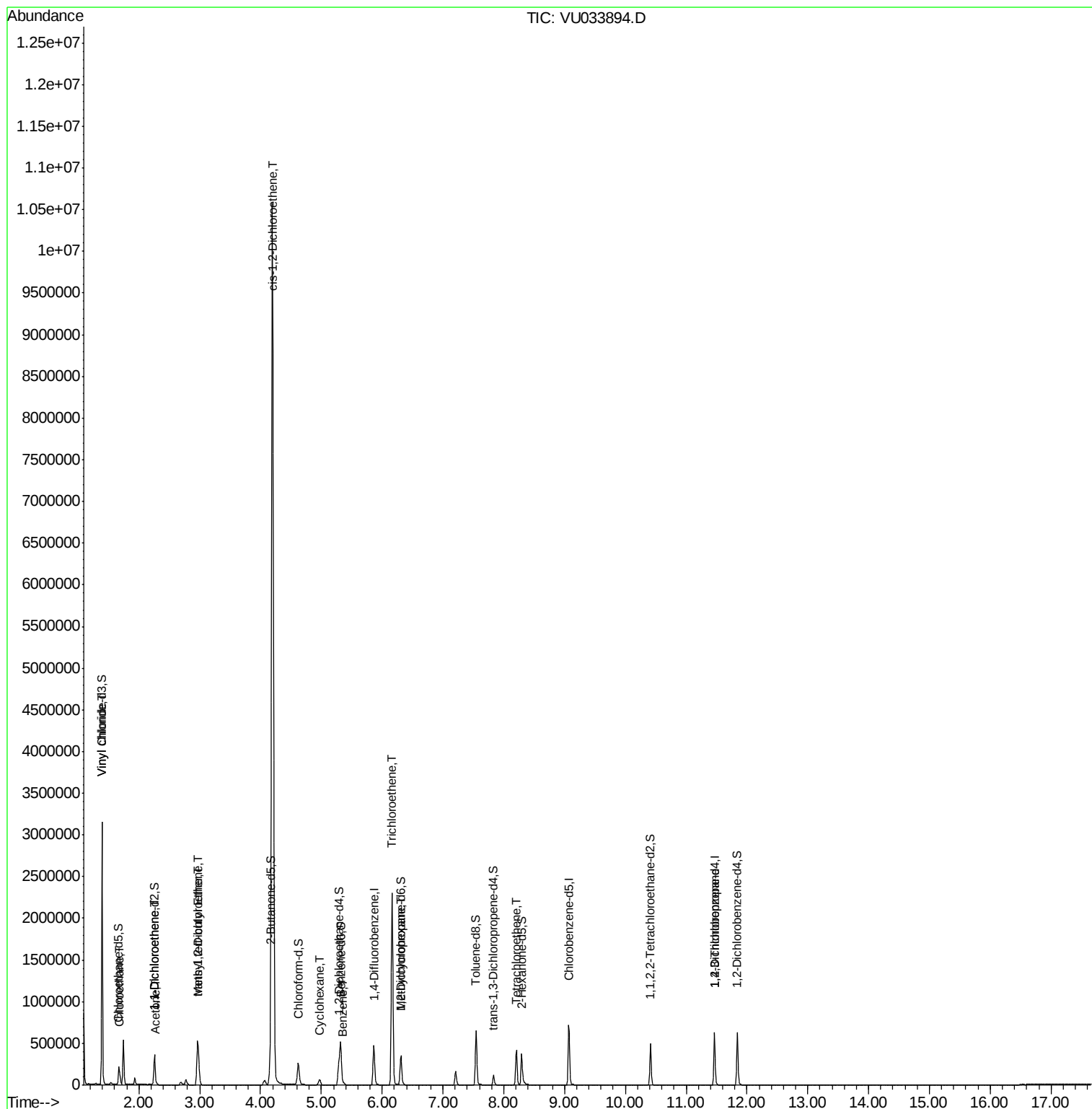
						Qvalue
5) Vinyl chloride	1.39	62	1795555	399.070	ug/L	98
8) Chloroethane	1.69	64	65478	21.007	ug/L	96
12) 1,1-Dichloroethene	2.27	96	6328	2.286	ug/L #	1
13) Acetone	2.29	43	8709	4.688	ug/L	43
17) trans-1,2-Dichloroethene	2.96	96	129698	44.940	ug/L	96
18) Methyl tert-butyl Ether	2.98	73	284280	33.753	ug/L	96
20) cis-1,2-Dichloroethene	4.20	96	5732001	1835.999	ug/L	95
29) Cyclohexane	4.97	56	28747	6.652	ug/L #	92
33) Benzene	5.37	78	18698	1.535	ug/L	100
34) Trichloroethene	6.16	95	787076	242.034	ug/L	99
35) Methylcyclohexane	6.31	83	38294	8.042	ug/L #	19
46) Tetrachloroethene	8.21	164	93474	35.854	ug/L	97
59) 1,2,3-Trichloropropane	11.47	75	19856	4.913	ug/L	90

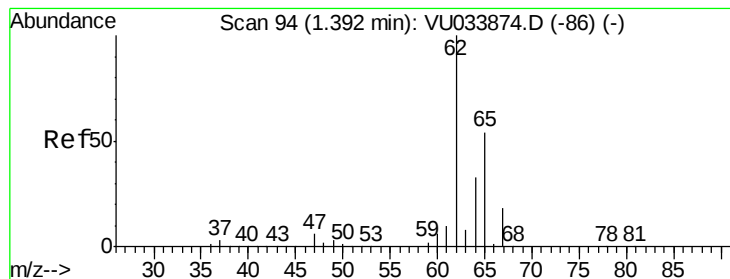
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 399.070 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033894.D

Acq: 22 Aug 2019 00:06

Instrument :

MSVOA_U

ClientSampleId :

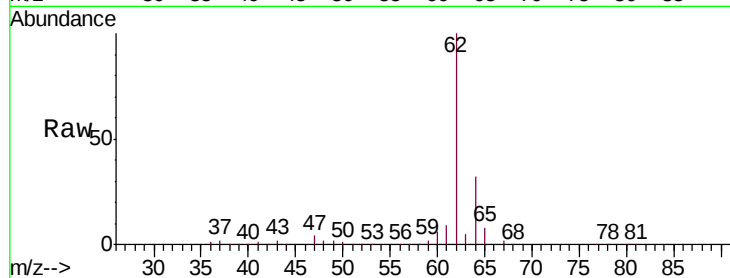
F2B99

Tgt Ion: 62 Resp: 1795555

Ion Ratio Lower Upper

62 100

64 32.4 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

2000000

1500000

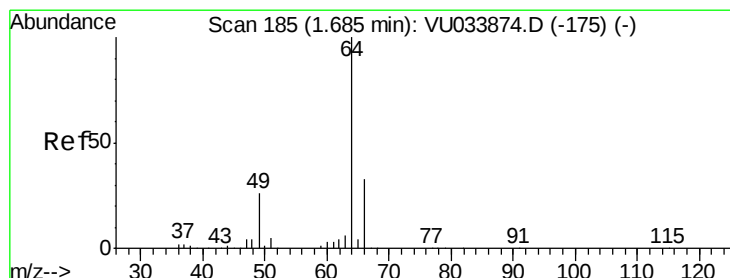
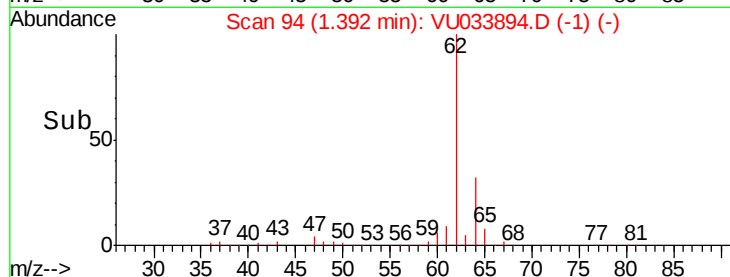
1000000

500000

0

1.35 1.40 1.45 1.50

Time-->



#8

Chloroethane

Concen: 21.007 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033894.D

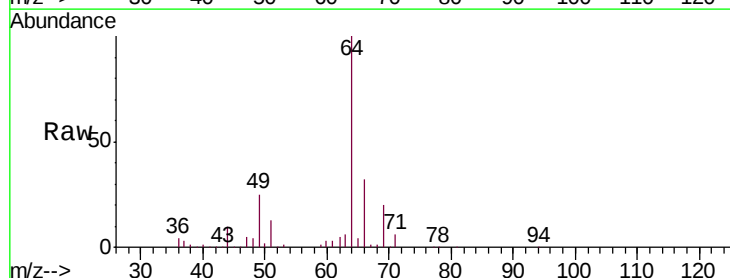
Acq: 22 Aug 2019 00:06

Tgt Ion: 64 Resp: 65478

Ion Ratio Lower Upper

64 100

66 31.6 23.9 44.3



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

60000

50000

40000

30000

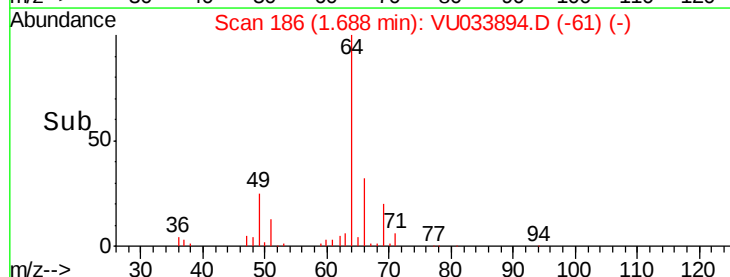
20000

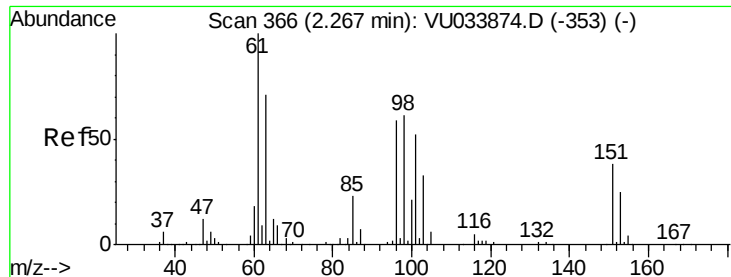
10000

0

1.65 1.70 1.75

Time-->

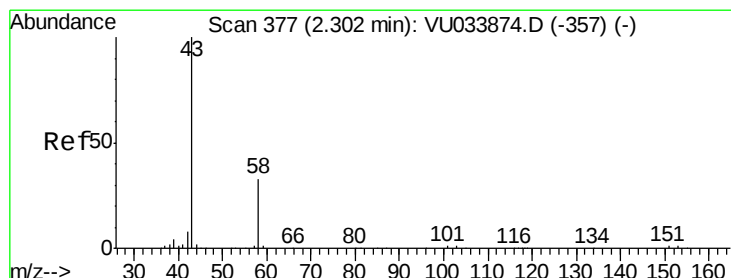
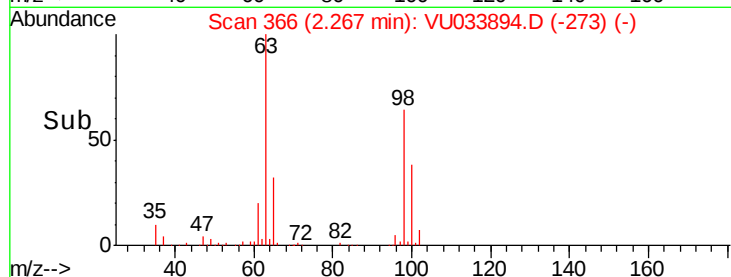
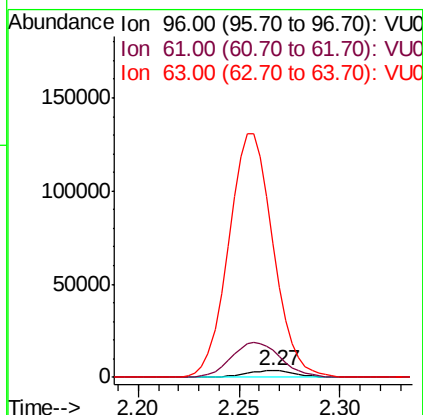
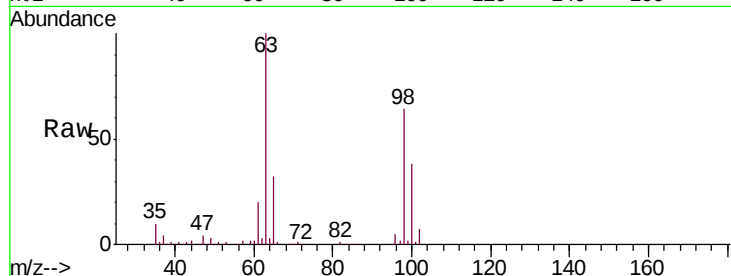




#12
 1,1-Dichloroethene
 Concen: 2.286 ug/L
 RT: 2.27 min Scan# 366
 Delta R.T. 0.00 min
 Lab File: VU033894.D
 Acq: 22 Aug 2019 00:06

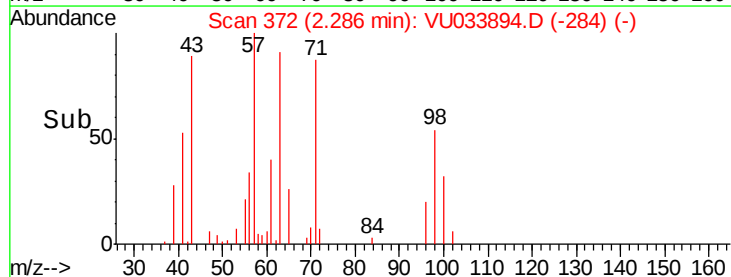
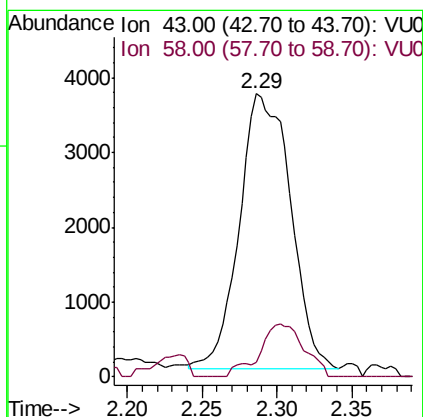
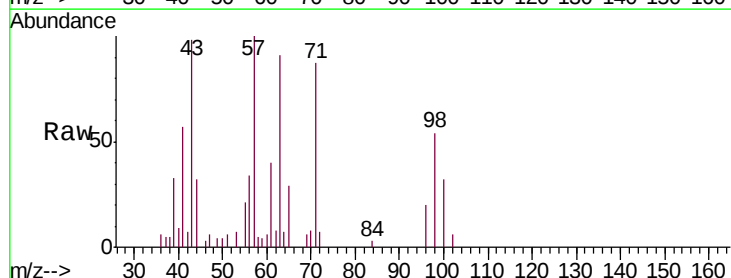
Instrument :
 MSVOA_U
 ClientSampleId :
 F2B99

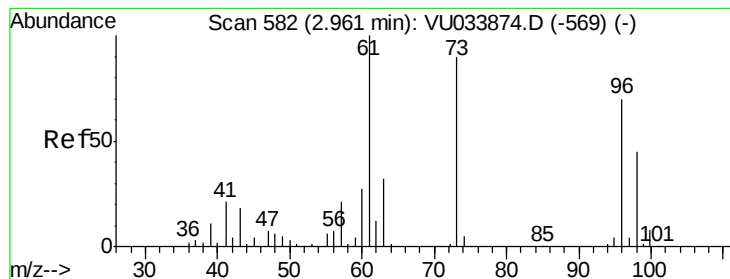
Tgt Ion: 96 Resp: 6328
 Ion Ratio Lower Upper
 96 100
 61 409.6 123.7 229.7#
 63 2025.7 91.2 169.4#



#13
 Acetone
 Concen: 4.688 ug/L
 RT: 2.29 min Scan# 372
 Delta R.T. -0.02 min
 Lab File: VU033894.D
 Acq: 22 Aug 2019 00:06

Tgt Ion: 43 Resp: 8709
 Ion Ratio Lower Upper
 43 100
 58 1.8 0.0 69.0





#17

trans-1,2-Dichloroethene

Concen: 44.940 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU033894.D

Acq: 22 Aug 2019 00:06

Instrument :

MSVOA_U

ClientSampleId :

F2B99

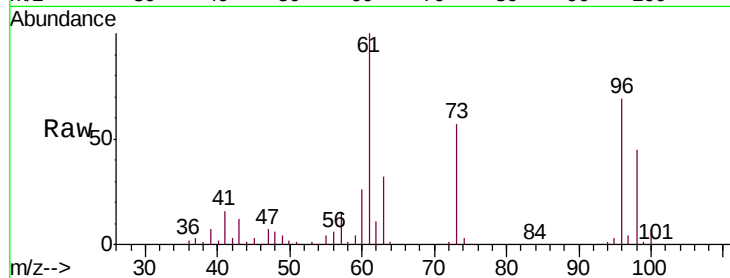
Tgt Ion: 96 Resp: 129698

Ion Ratio Lower Upper

96 100

61 145.5 98.6 183.2

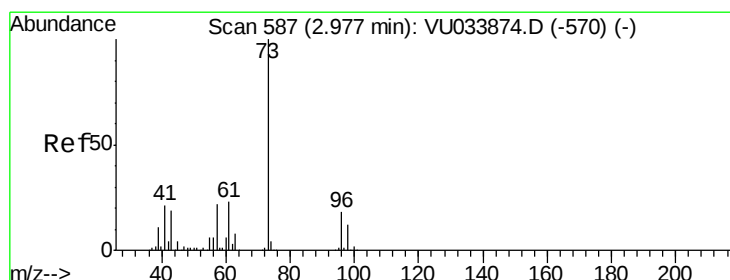
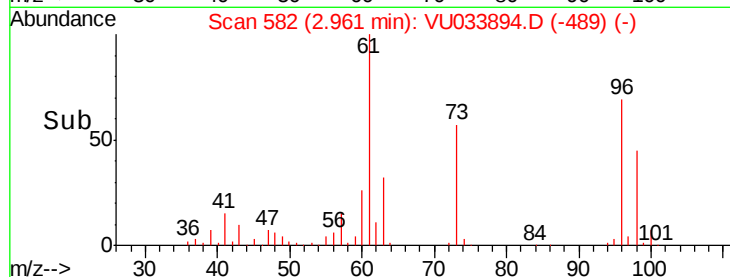
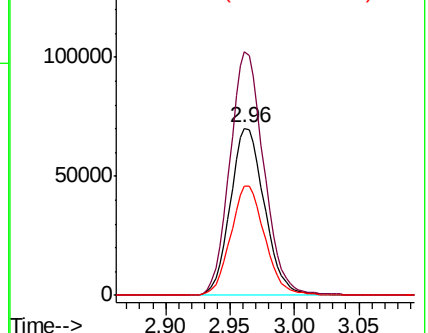
98 65.2 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 33.753 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033894.D

Acq: 22 Aug 2019 00:06

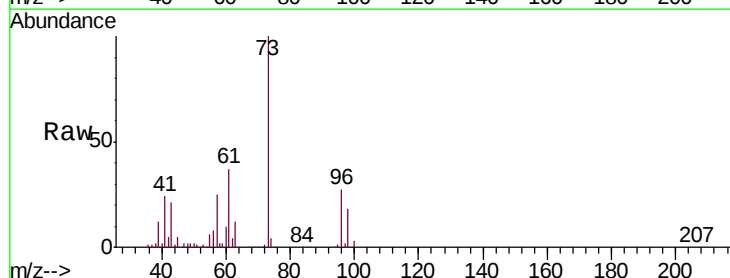
Tgt Ion: 73 Resp: 284280

Ion Ratio Lower Upper

73 100

43 20.6 15.2 22.8

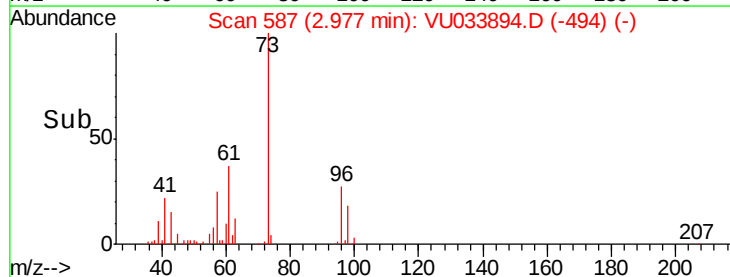
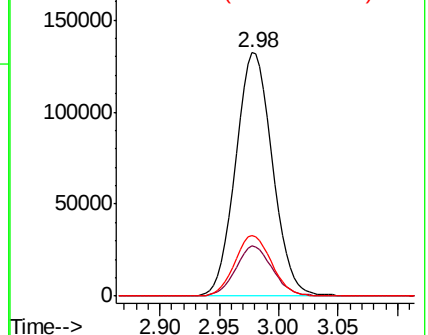
57 24.8 17.8 26.8

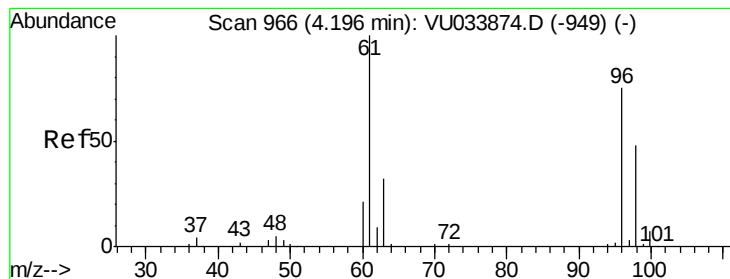


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



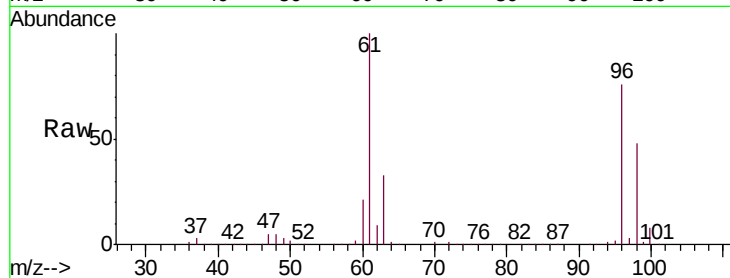


#20

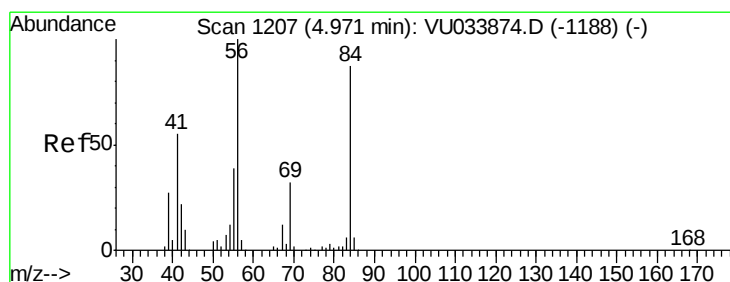
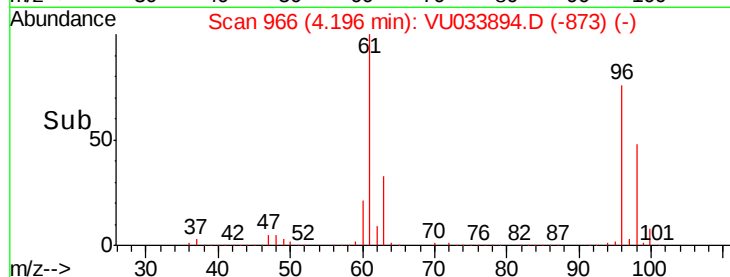
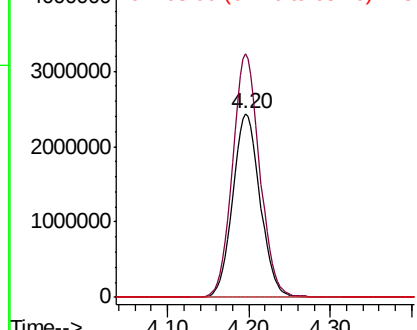
cis-1,2-Dichloroethene
Concen: 1835.999 ug/L
RT: 4.20 min Scan# 966
Delta R.T. 0.00 min
Lab File: VU033894.D
Acq: 22 Aug 2019 00:06

Instrument :
MSVOA_U
ClientSampleId :
F2B99

Tgt Ion: 96 Resp: 5732001
Ion Ratio Lower Upper
96 100
61 132.3 88.2 163.8
68 0.0 0.0 0.0



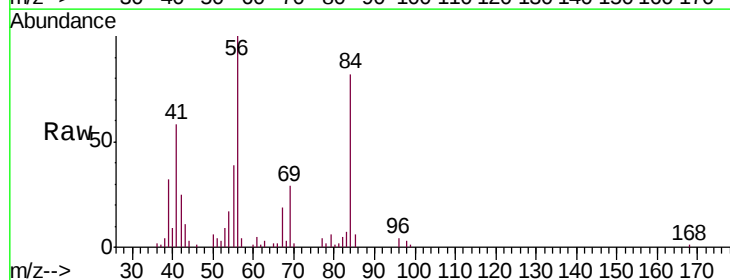
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0



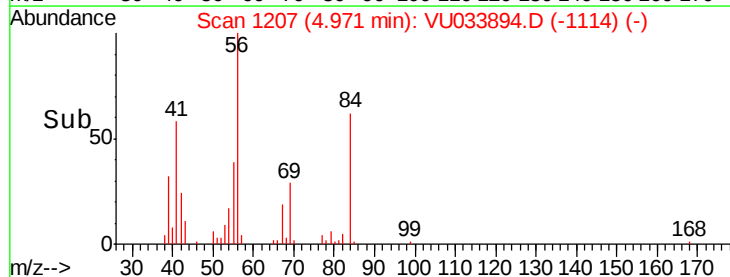
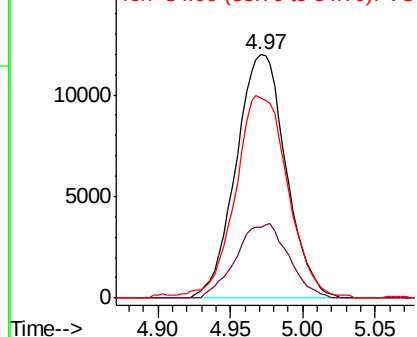
#29

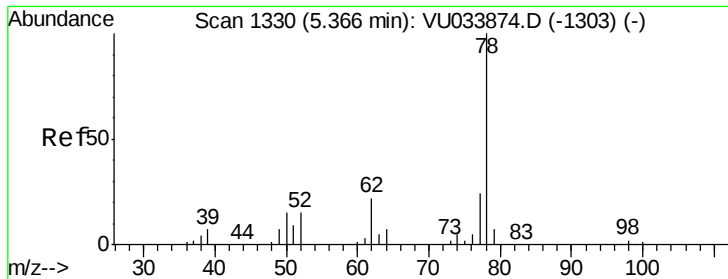
Cyclohexane
Concen: 6.652 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033894.D
Acq: 22 Aug 2019 00:06

Tgt Ion: 56 Resp: 28747
Ion Ratio Lower Upper
56 100
69 16.3 24.4 36.6#
84 87.5 69.0 103.4



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0





#33

Benzene

Concen: 1.535 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU033894.D

Acq: 22 Aug 2019 00:06

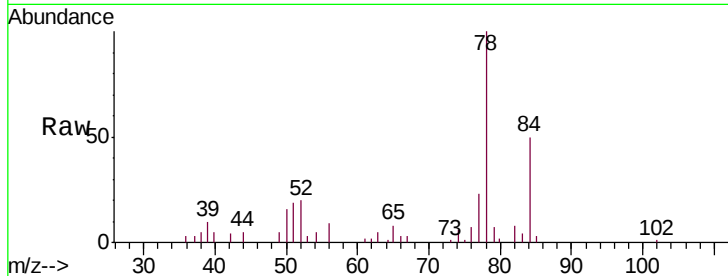
Instrument :

MSVOA_U

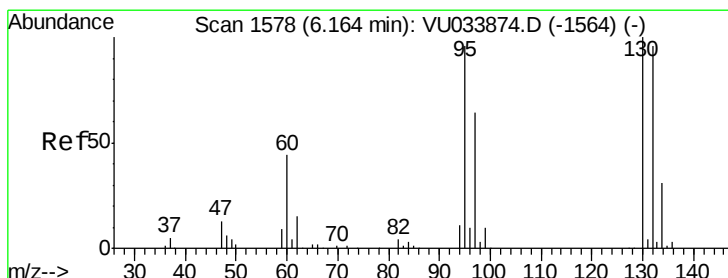
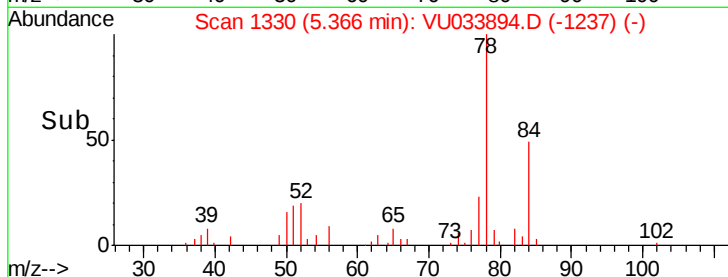
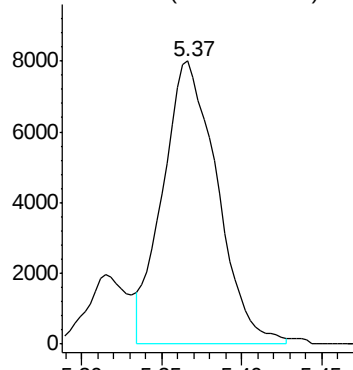
ClientSampleId :

F2B99

Tgt Ion: 78 Resp: 18698



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 242.034 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033894.D

Acq: 22 Aug 2019 00:06

Tgt Ion: 95 Resp: 787076

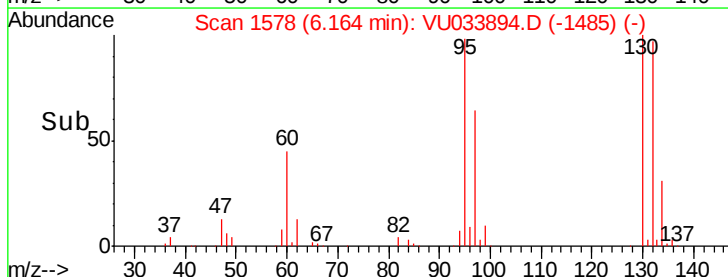
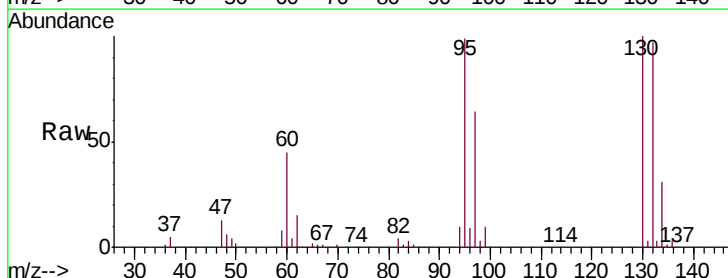
Ion	Ratio	Lower	Upper
95	100		
97	64.6	46.3	86.1
132	97.6	67.9	126.1
130	101.0	72.0	133.6

Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

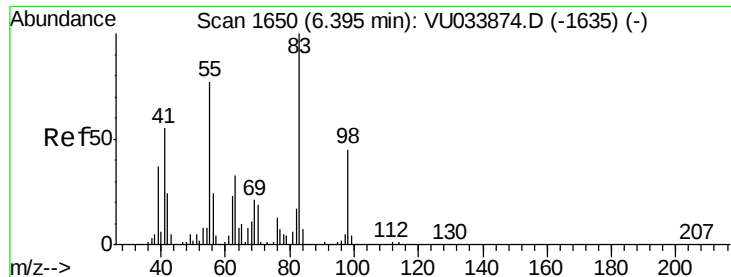
Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

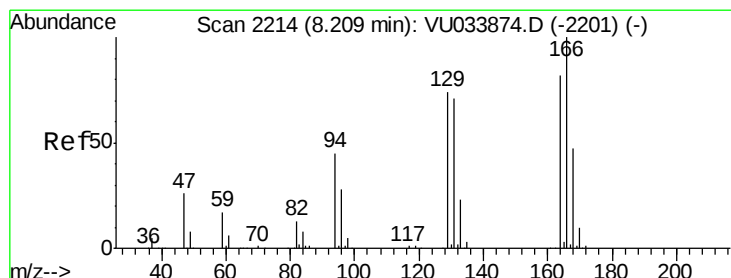
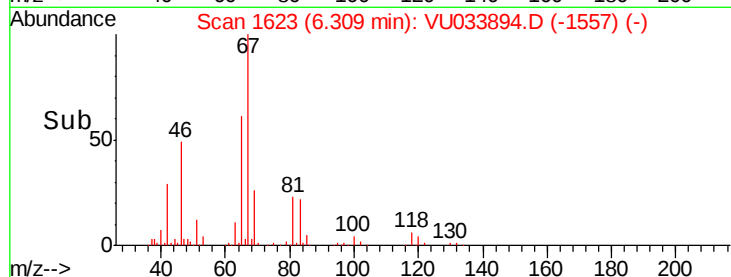
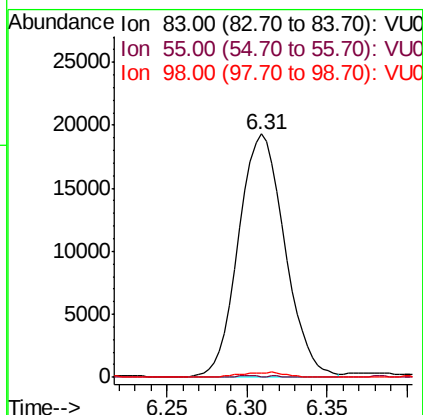
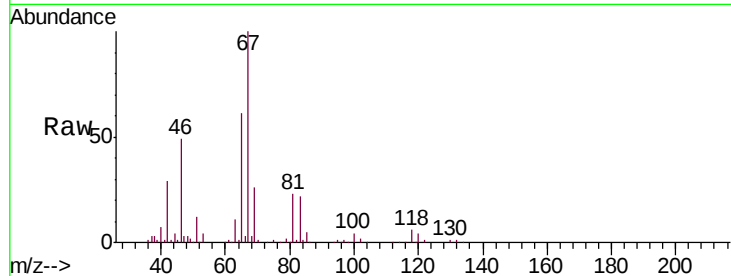
Ion 97.00 (96.70 to 97.70): VU0



#35
Methylcyclohexane
Concen: 8.042 ug/L
RT: 6.31 min Scan# 1623
Delta R.T. -0.09 min
Lab File: VU033894.D
Acq: 22 Aug 2019 00:06

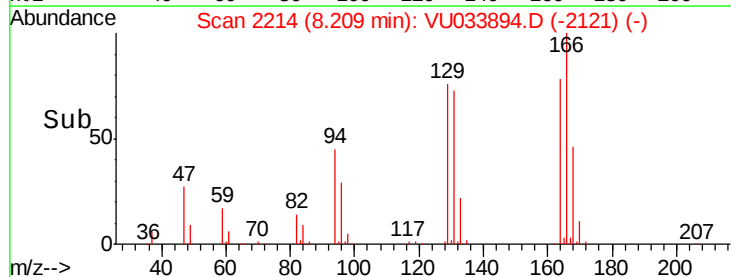
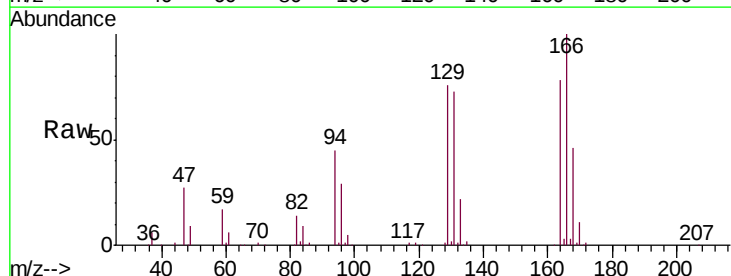
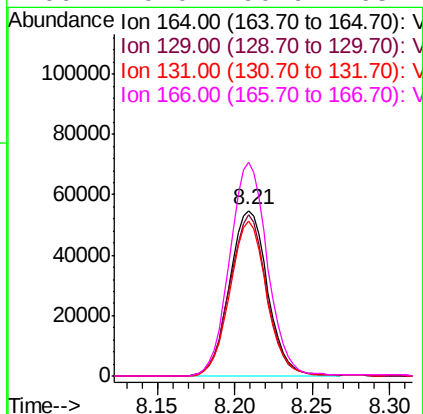
Instrument :
MSVOA_U
ClientSampleId :
F2B99

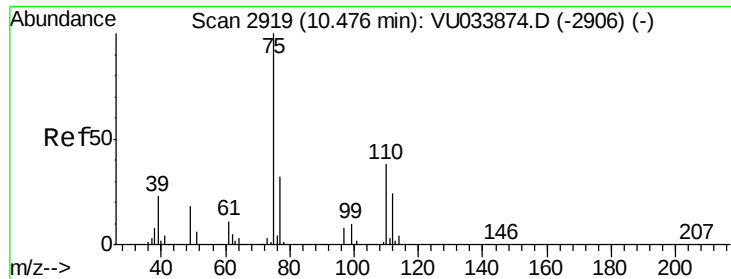
Tgt Ion: 83 Resp: 38294
Ion Ratio Lower Upper
83 100
55 0.1 61.6 92.4#
98 2.0 37.2 55.8#



#46
Tetrachloroethene
Concen: 35.854 ug/L
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU033894.D
Acq: 22 Aug 2019 00:06

Tgt Ion: 164 Resp: 93474
Ion Ratio Lower Upper
164 100
129 97.4 64.4 119.6
131 93.5 63.8 118.4
166 129.0 90.9 168.7





#59

1,2,3-Trichloropropane

Concen: 4.913 ug/L

RT: 11.47 min Scan# 3227

Delta R.T. 0.99 min

Lab File: VU033894.D

Acq: 22 Aug 2019 00:06

Instrument :

MSVOA_U

ClientSampleId :

F2B99

Tgt Ion: 75 Resp: 19856

Ion Ratio Lower Upper

75 100

77 38.0 26.0 39.0

