

Data File : VU031620.D
Acq On : 30 Apr 2019 05:05
Operator : JC/SP
Sample : K2593-09 50X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 53 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0X73

Quant Time: Apr 30 05:49:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 30 04:50:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	655543	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	659407	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	244416	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	329821	60.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	120.24%
7) Chloroethane-d5	1.68	69	249114	58.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	117.52%
11) 1,1-Dichloroethene-d2	2.27	63	471903	43.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.38%
21) 2-Butanone-d5	4.19	46	575017	115.68	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.68%
24) Chloroform-d	4.64	84	516047	51.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.72%
26) 1,2-Dichloroethane-d4	5.31	65	356200	54.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.52%
32) Benzene-d6	5.34	84	1017856	50.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.54%
36) 1,2-Dichloropropane-d6	6.33	67	379895	53.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	106.66%
41) Toluene-d8	7.56	98	877179	49.74	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.48%
43) trans-1,3-Dichloropropene-	7.85	79	147139	48.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.24%
47) 2-Hexanone-d5	8.31	63	335024	108.65	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.65%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	463484	48.48	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.96%
64) 1,2-Dichlorobenzene-d4	11.86	152	260387	50.66	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.32%

Target Compounds

					Qvalue
9) Trichlorofluoromethane	1.88	101	1061665	114.212 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	3963	0.754 ug/L #	22
12) 1,1-Dichloroethene	2.28	96	6387	1.249 ug/L #	1
13) Acetone	2.34	43	3210	0.573 ug/L	84
16) Methylene chloride	2.70	84	67387	11.164 ug/L	94
17) trans-1,2-Dichloroethene	2.98	96	12621	2.368 ug/L	88
20) cis-1,2-Dichloroethene	4.22	96	101487	17.753 ug/L	90
25) Chloroform	4.67	83	20775	1.936 ug/L	100
27) 1,2-Dichloroethane	5.40	62	8536	0.979 ug/L	99
31) Carbon tetrachloride	5.13	117	9504	1.204 ug/L	94
39) cis-1,3-Dichloropropene	7.22	75	9446	1.039 ug/L #	81
40) 4-Methyl-2-pentanone	7.47	43	31338	2.959 ug/L #	91
42) Toluene	7.63	91	240556	9.961 ug/L	96
45) 1,1,2-Trichloroethane	8.07	97	15517	2.735 ug/L	94
46) Tetrachloroethene	8.22	164	325505	81.246 ug/L	97
52) Ethylbenzene	9.25	91	12177	0.486 ug/L	88
53) m,p-Xylene	9.37	106	17697	2.028 ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU042919\
Quantitation Report (Not Reviewed)

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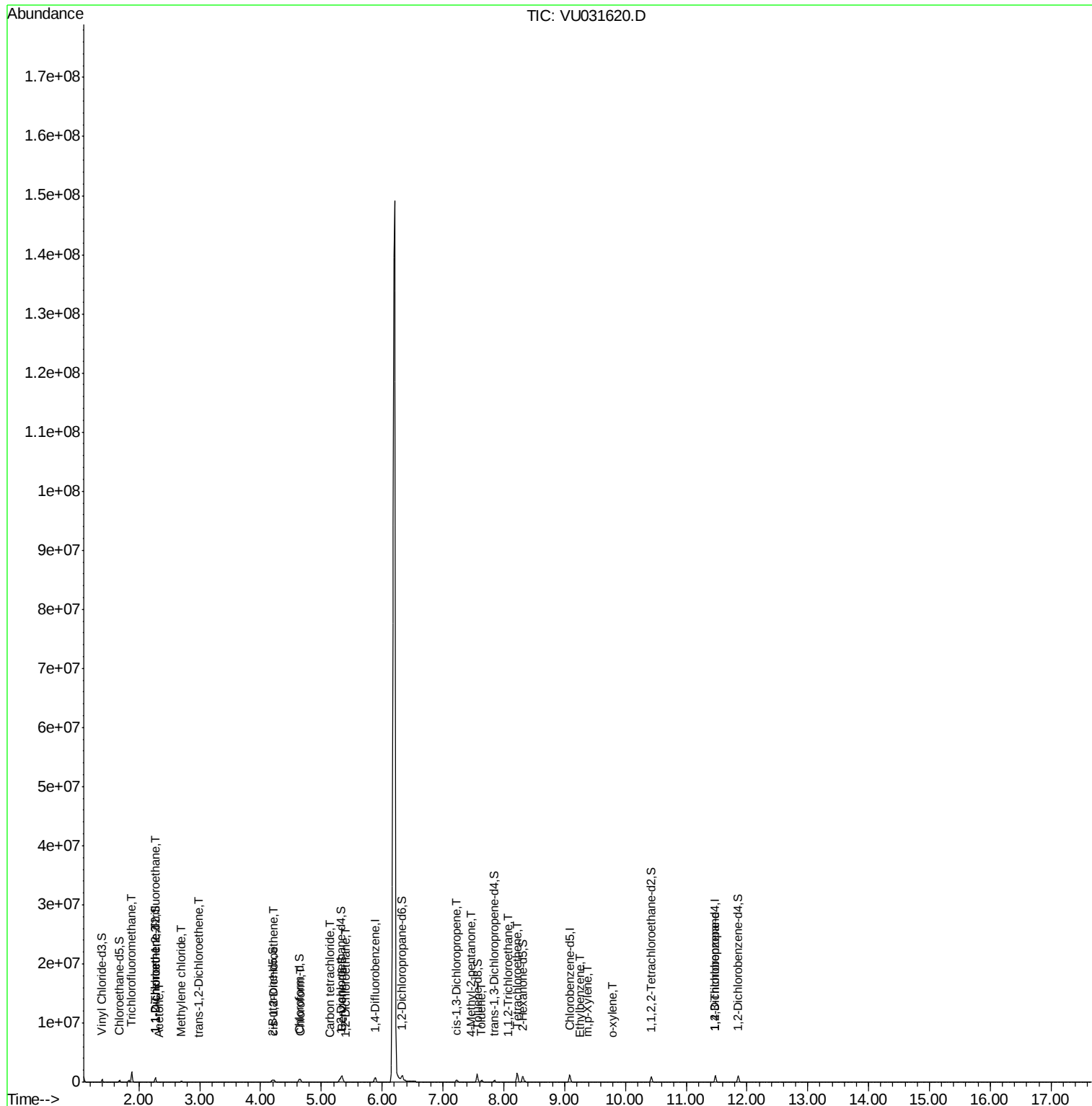
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.78	106	8694	1.005	ug/L	86
59) 1,2,3-Trichloropropane	11.48	75	35092	4.300	ug/L	90

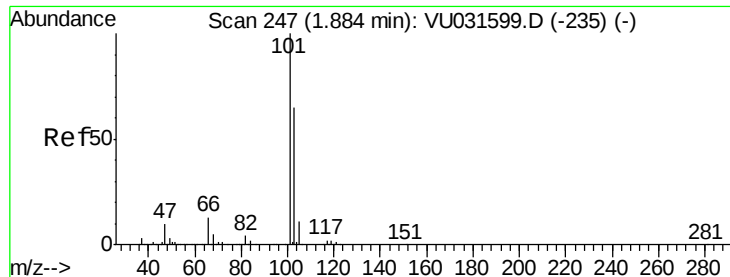
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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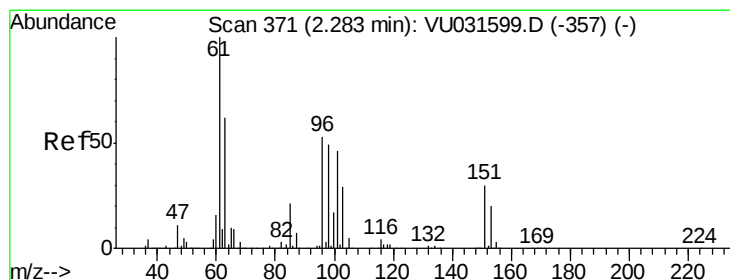
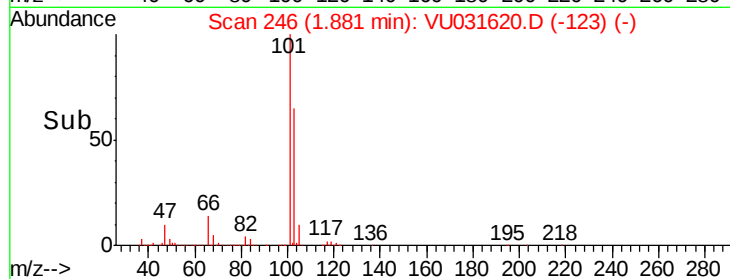
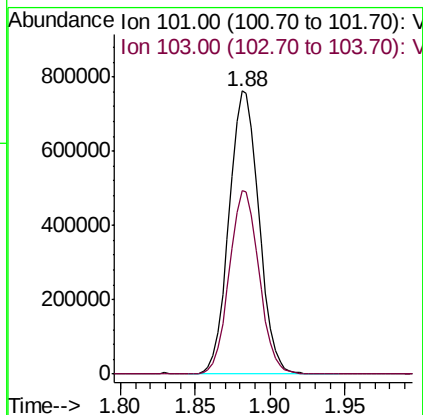
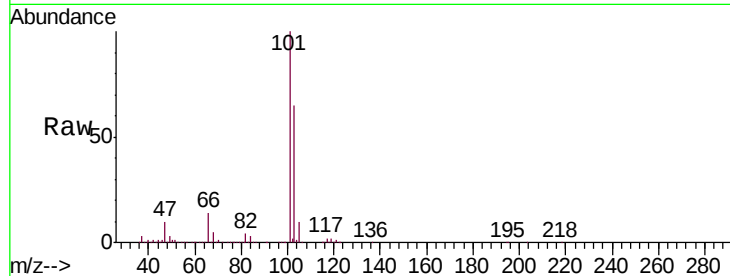


#9

Trichlorofluoromethane
 Concen: 114.212 ug/L
 RT: 1.88 min Scan# 246
 Delta R.T. -0.00 min
 Lab File: VU031620.D
 Acq: 30 Apr 2019 05:05

Instrument :
 MSVOA_U
 ClientSampled :
 C0X73

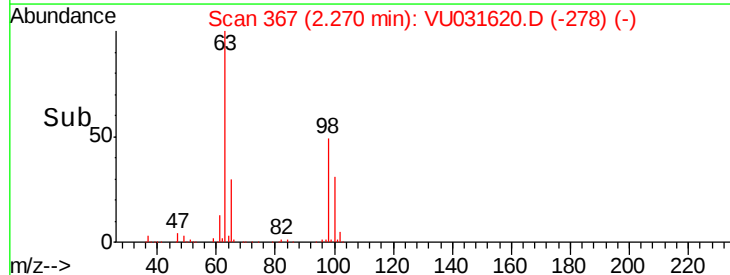
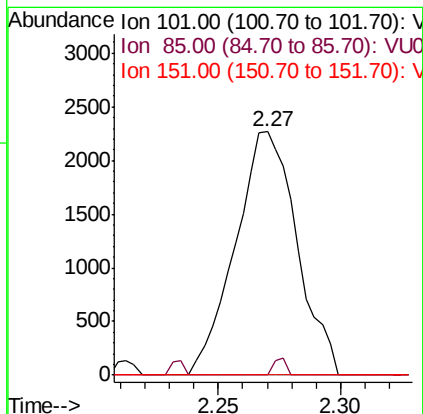
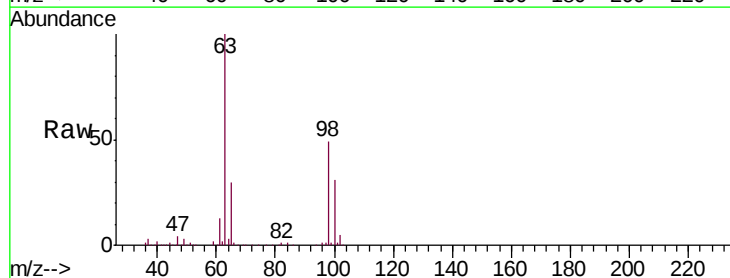
Tgt Ion:101 Resp: 1061665
 Ion Ratio Lower Upper
 101 100
 103 64.4 50.8 76.2

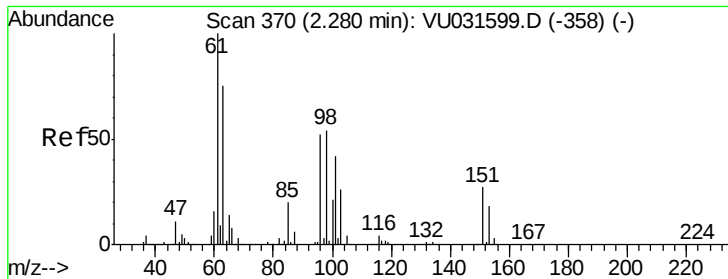


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.754 ug/L
 RT: 2.27 min Scan# 367
 Delta R.T. -0.01 min
 Lab File: VU031620.D
 Acq: 30 Apr 2019 05:05

Tgt Ion:101 Resp: 3963
 Ion Ratio Lower Upper
 101 100
 85 1.4 36.1 54.1#
 151 0.0 56.1 84.1#





#12

1,1-Dichloroethene

Concen: 1.249 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031620.D

Acq: 30 Apr 2019 05:05

Instrument :

MSVOA_U

ClientSampled :

C0X73

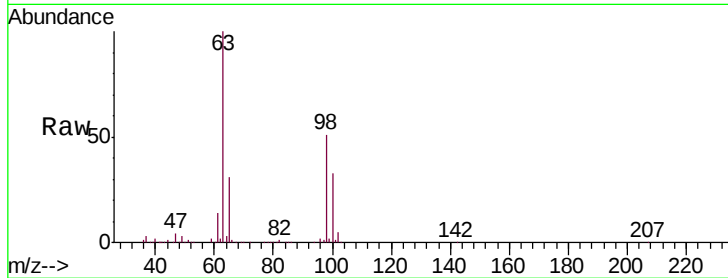
Tgt Ion: 96 Resp: 6387

Ion Ratio Lower Upper

96 100

61 908.7 135.0 250.6#

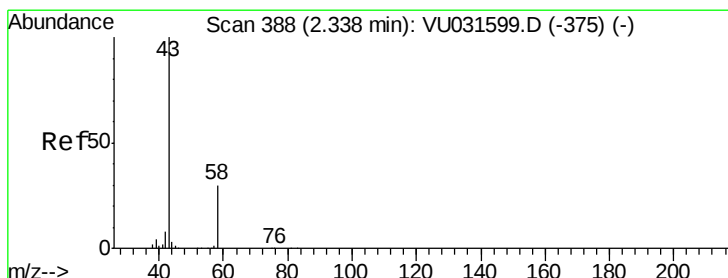
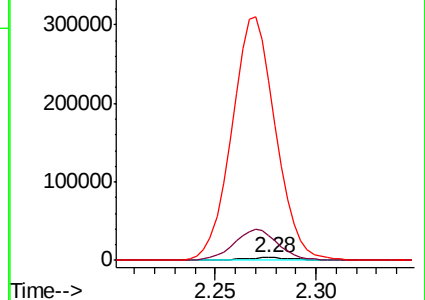
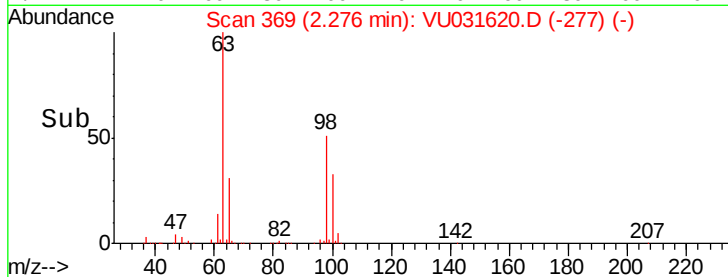
63 6510.8 103.5 192.3#



Abundance Ion 96.00 (95.70 to 96.70): VU031620.D (-277) (-)

Ion 61.00 (60.70 to 61.70): VU031620.D (-277) (-)

Ion 63.00 (62.70 to 63.70): VU031620.D (-277) (-)



#13

Acetone

Concen: 0.573 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU031620.D

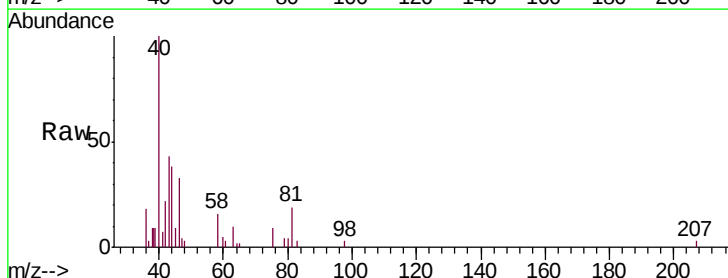
Acq: 30 Apr 2019 05:05

Tgt Ion: 43 Resp: 3210

Ion Ratio Lower Upper

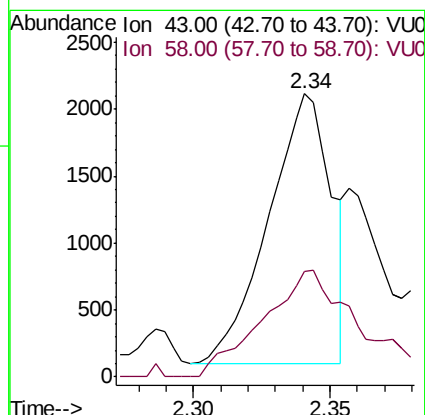
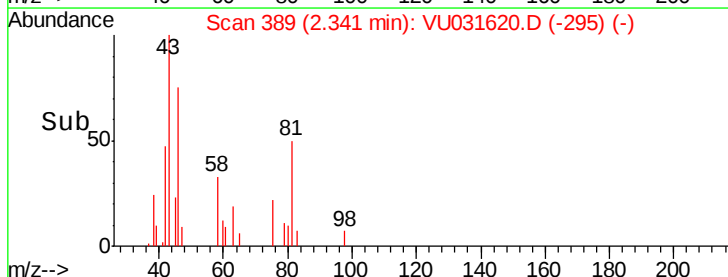
43 100

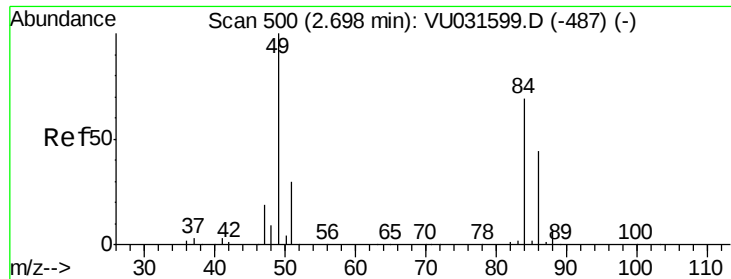
58 41.0 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031620.D (-295) (-)

Ion 58.00 (57.70 to 58.70): VU031620.D (-295) (-)

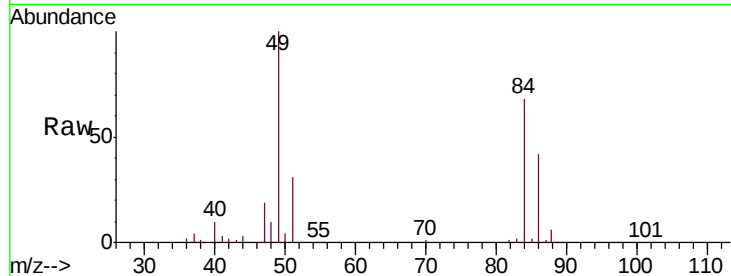




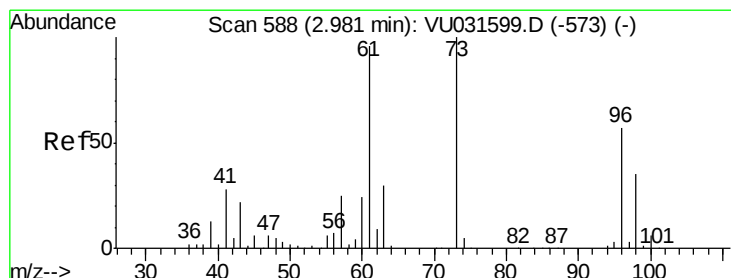
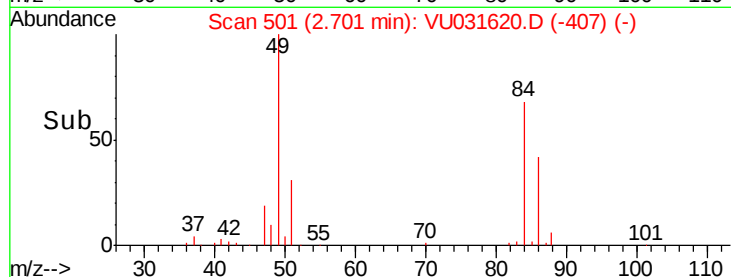
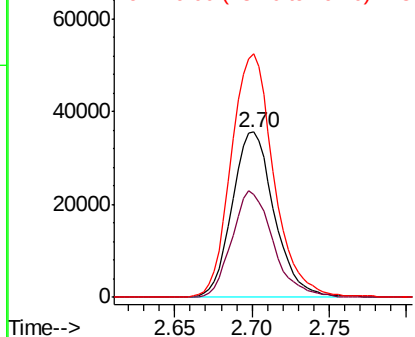
#16
Methylene chloride
Concen: 11.164 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.00 min
Lab File: VU031620.D
Acq: 30 Apr 2019 05:05

Instrument :
MSVOA_U
ClientSampleId :
C0X73

Tgt Ion: 84 Resp: 67387
Ion Ratio Lower Upper
84 100
86 62.4 44.7 83.1
49 147.6 96.5 179.3

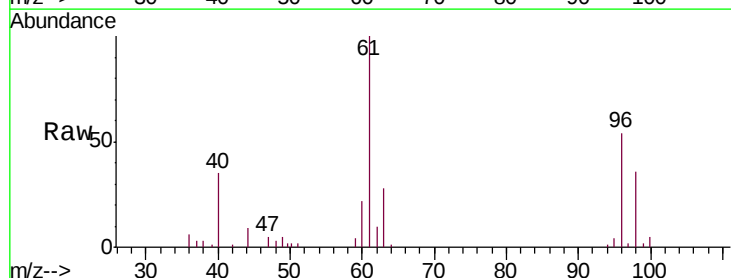


Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.00 (48.70 to 49.70): VU0

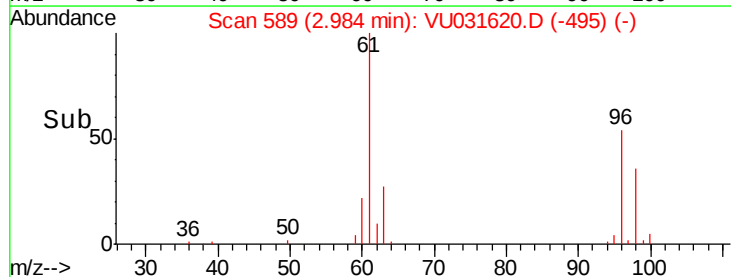
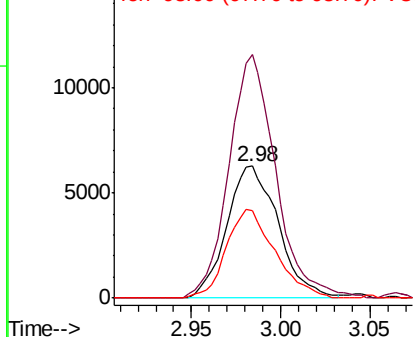


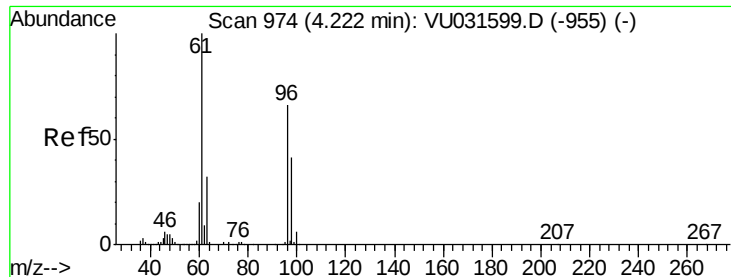
#17
trans-1,2-Dichloroethene
Concen: 2.368 ug/L
RT: 2.98 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU031620.D
Acq: 30 Apr 2019 05:05

Tgt Ion: 96 Resp: 12621
Ion Ratio Lower Upper
96 100
61 185.0 114.5 212.7
98 66.4 45.4 84.2



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



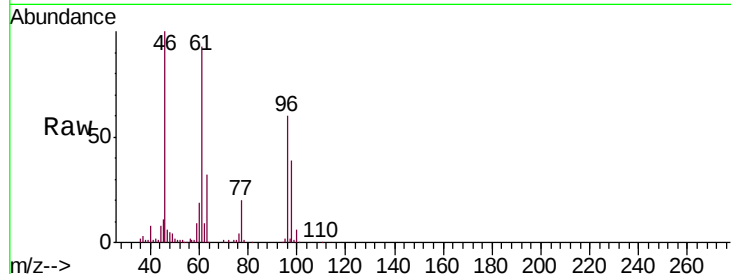


#20

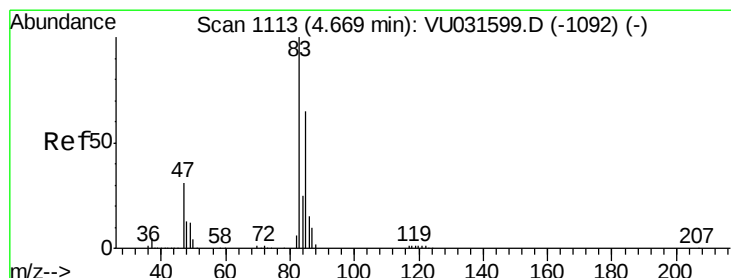
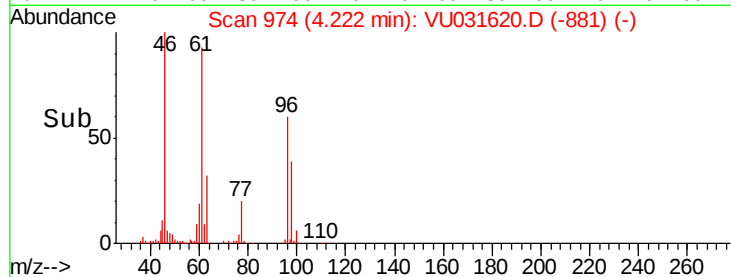
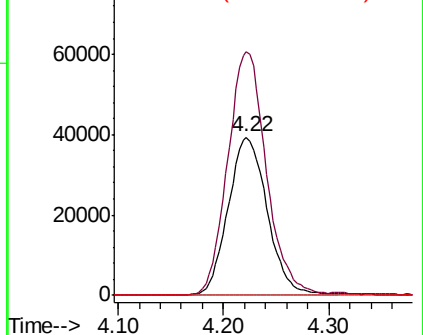
cis-1,2-Dichloroethene
 Concen: 17.753 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: VU031620.D
 Acq: 30 Apr 2019 05:05

Instrument :
 MSVOA_U
 ClientSampleId :
 C0X73

Tgt Ion: 96 Resp: 101487
 Ion Ratio Lower Upper
 96 100
 61 153.8 99.5 184.7
 68 0.0 0.0 0.0



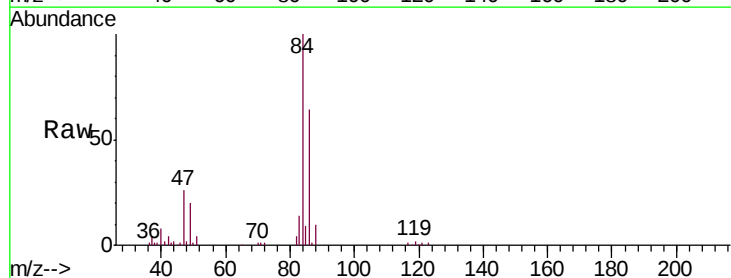
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0



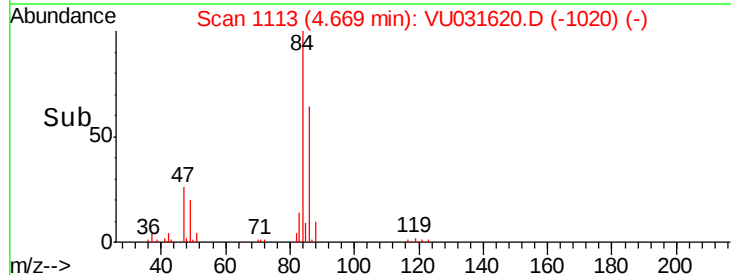
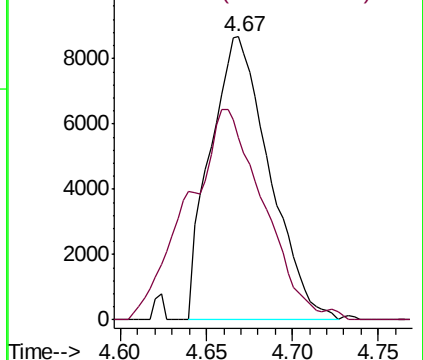
#25

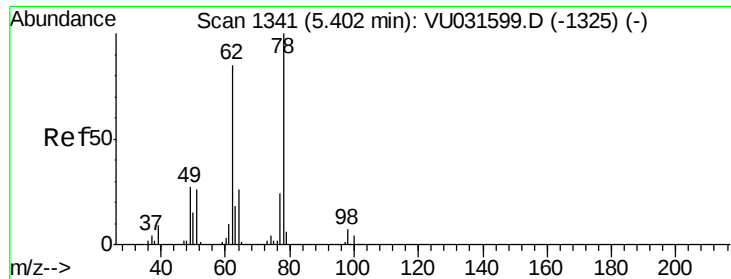
Chloroform
 Concen: 1.936 ug/L
 RT: 4.67 min Scan# 1113
 Delta R.T. -0.00 min
 Lab File: VU031620.D
 Acq: 30 Apr 2019 05:05

Tgt Ion: 83 Resp: 20775
 Ion Ratio Lower Upper
 83 100
 85 64.4 44.9 83.3



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

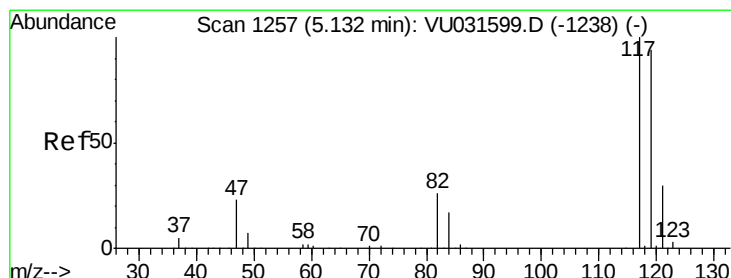
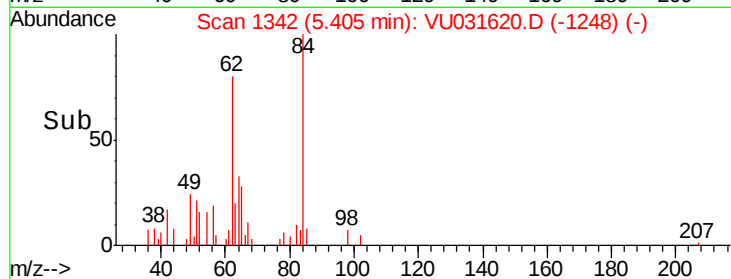
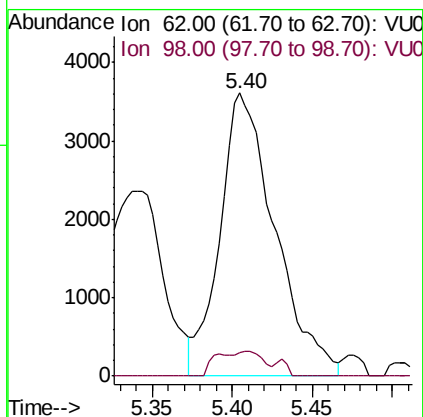
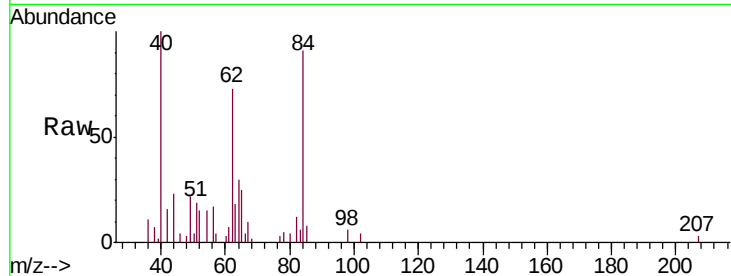




#27
 1,2-Dichloroethane
 Concen: 0.979 ug/L
 RT: 5.40 min Scan# 1342
 Delta R.T. 0.00 min
 Lab File: VU031620.D
 Acq: 30 Apr 2019 05:05

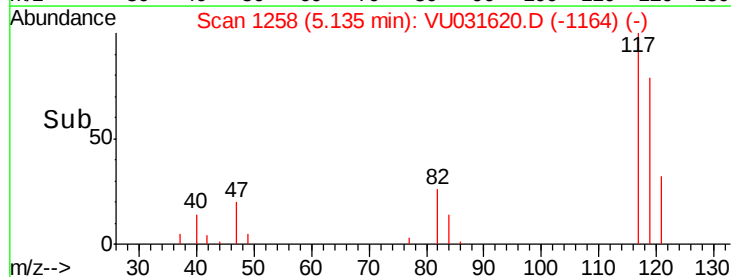
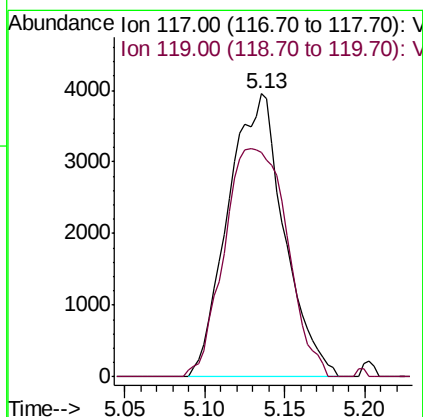
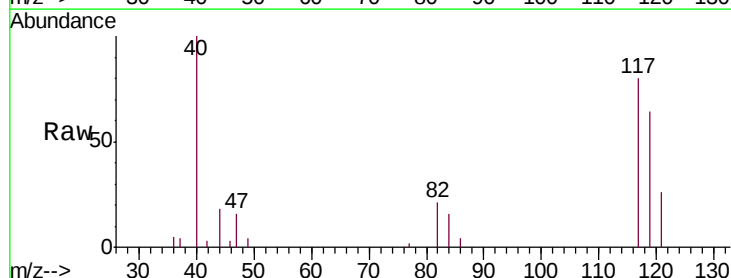
Instrument :
 MSVOA_U
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 C0X73

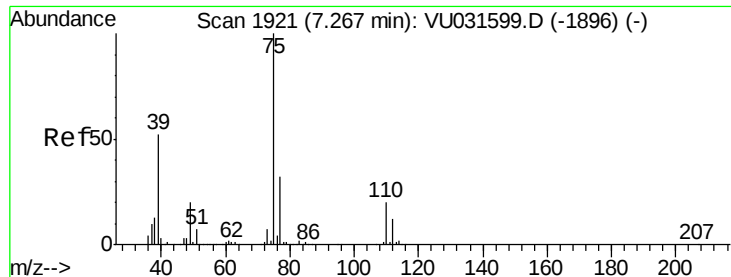
Tgt Ion: 62 Resp: 8536
 Ion Ratio Lower Upper
 62 100
 98 8.4 7.1 10.7



#31
 Carbon tetrachloride
 Concen: 1.204 ug/L
 RT: 5.13 min Scan# 1258
 Delta R.T. 0.00 min
 Lab File: VU031620.D
 Acq: 30 Apr 2019 05:05

Tgt Ion: 117 Resp: 9504
 Ion Ratio Lower Upper
 117 100
 119 90.3 76.6 114.8





#39

cis-1,3-Dichloropropene

Concen: 1.039 ug/L

RT: 7.22 min Scan# 1908

Delta R.T. -0.04 min

Lab File: VU031620.D

Acq: 30 Apr 2019 05:05

Instrument :

MSVOA_U

ClientSampleId :

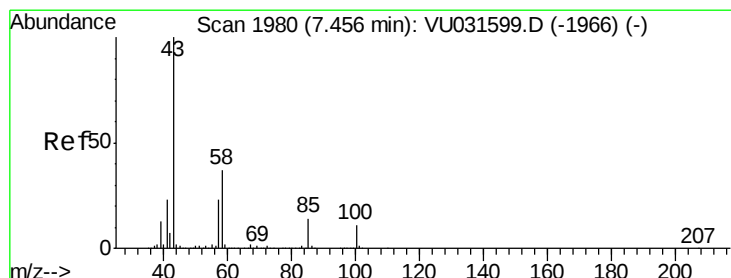
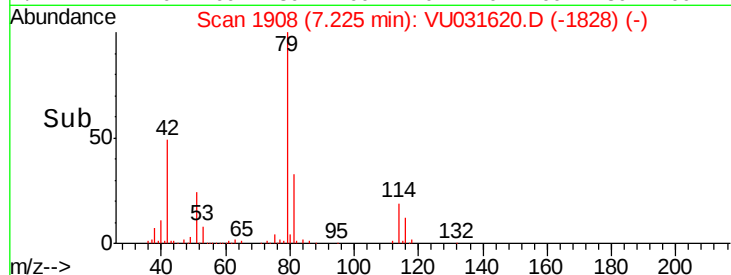
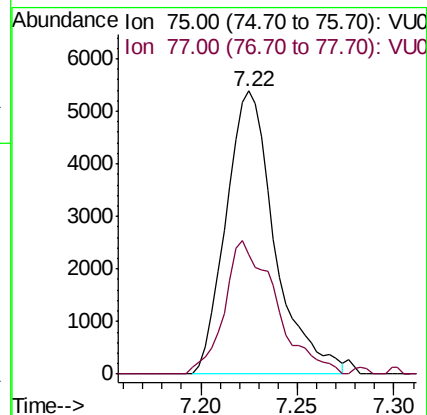
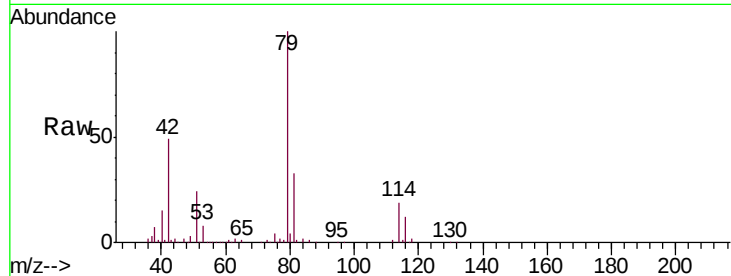
C0X73

Tgt Ion: 75 Resp: 9446

Ion Ratio Lower Upper

75 100

77 42.0 22.1 41.1#



#40

4-Methyl-2-pentanone

Concen: 2.959 ug/L

RT: 7.47 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VU031620.D

Acq: 30 Apr 2019 05:05

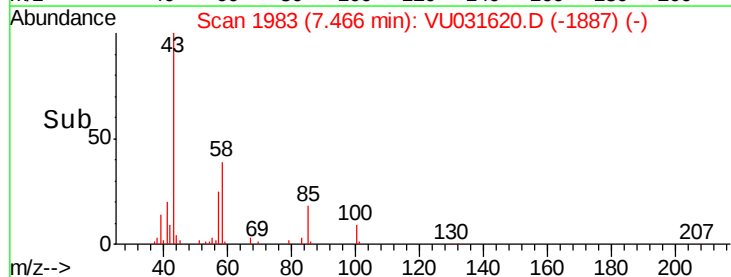
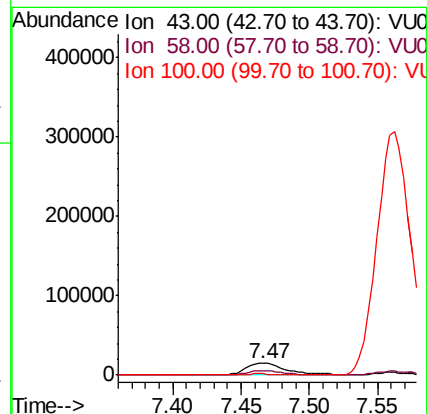
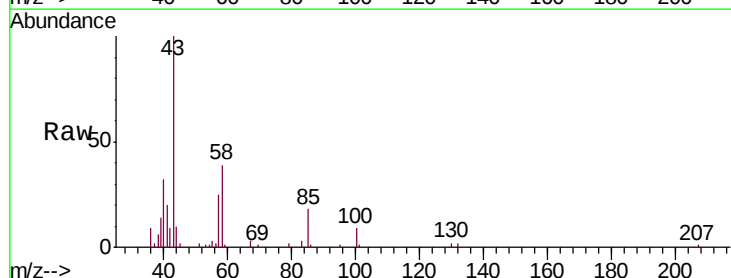
Tgt Ion: 43 Resp: 31338

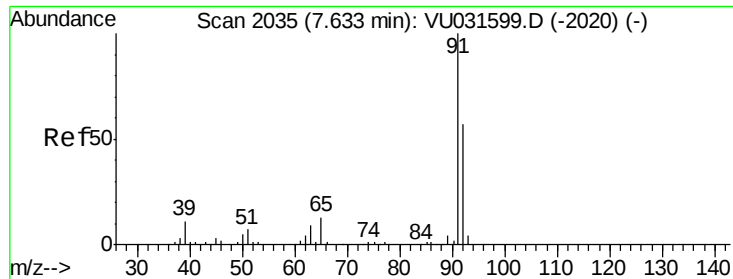
Ion Ratio Lower Upper

43 100

58 33.8 30.1 45.1

100 5.4 9.6 14.4#





#42

Toluene

Concen: 9.961 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031620.D

Acq: 30 Apr 2019 05:05

Instrument :

MSVOA_U

ClientSampled :

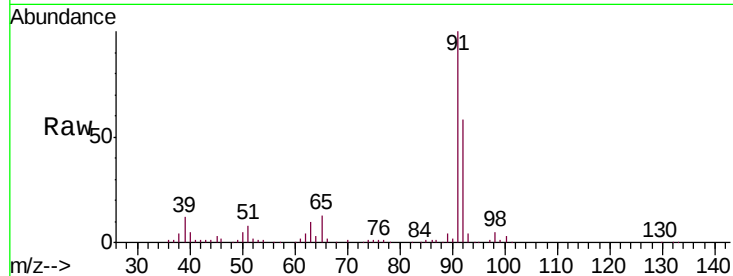
C0X73

Tgt Ion: 91 Resp: 240556

Ion Ratio Lower Upper

91 100

92 58.3 39.0 72.4



Abundance Ion 91.00 (90.70 to 91.70): VU031599.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU031599.D (-2020) (-)

7.63

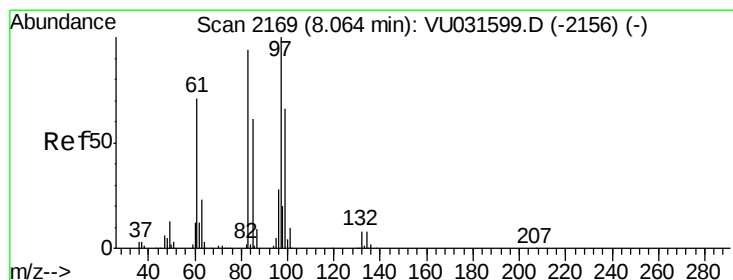
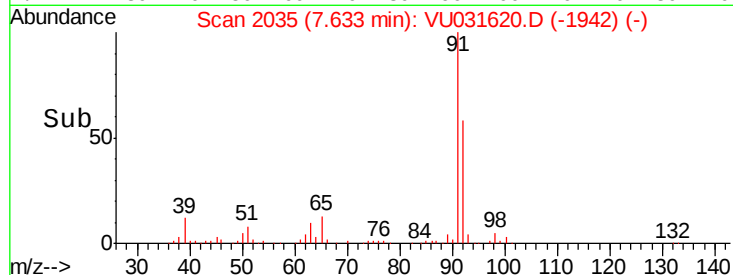
150000

100000

50000

0

Time-->



#45

1,1,2-Trichloroethane

Concen: 2.735 ug/L

RT: 8.07 min Scan# 2171

Delta R.T. 0.01 min

Lab File: VU031620.D

Acq: 30 Apr 2019 05:05

Tgt Ion: 97 Resp: 15517

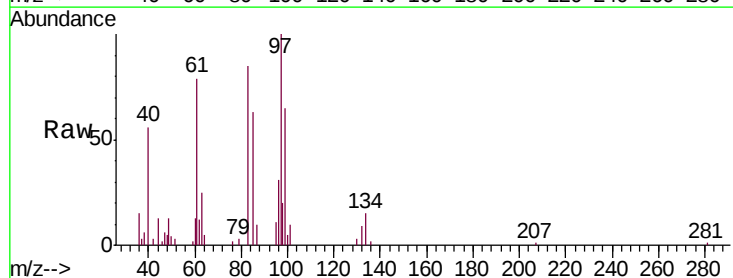
Ion Ratio Lower Upper

97 100

99 65.5 43.0 80.0

83 85.3 63.6 118.2

85 62.5 40.5 75.3



Abundance Ion 97.00 (96.70 to 97.70): VU031599.D (-2156) (-)

Ion 99.00 (98.70 to 99.70): VU031599.D (-2156) (-)

Ion 83.00 (82.70 to 83.70): VU031599.D (-2156) (-)

Ion 85.00 (84.70 to 85.70): VU031599.D (-2156) (-)

12000

10000

8000

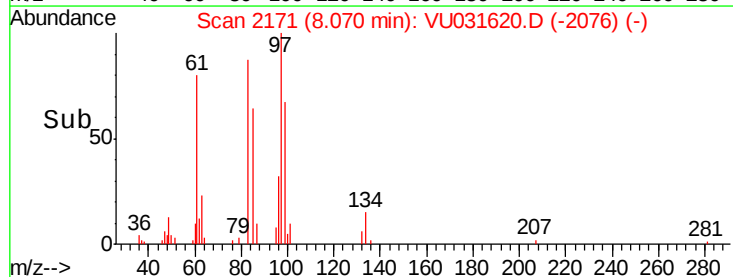
6000

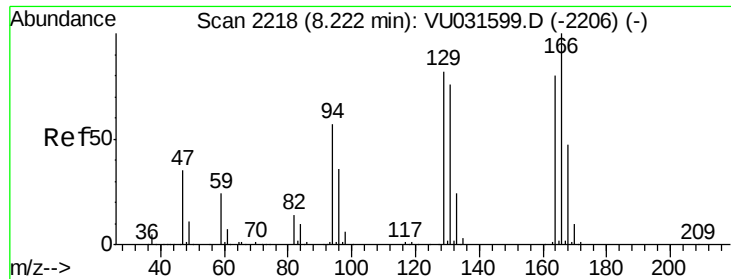
4000

2000

0

Time-->





#46

Tetrachloroethene

Concen: 81.246 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU031620.D

Acq: 30 Apr 2019 05:05

Instrument :

MSVOA_U

ClientSampleId :

C0X73

Tgt Ion:164 Resp: 325505

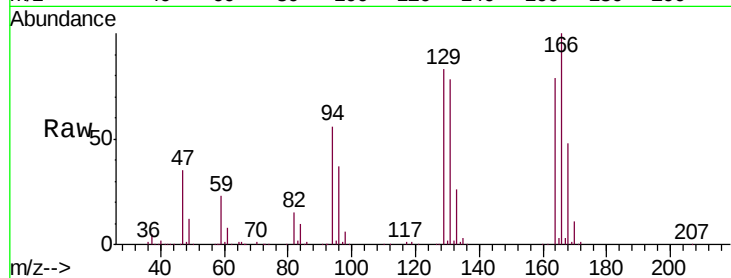
Ion Ratio Lower Upper

164 100

129 104.9 71.5 132.9

131 98.4 69.0 128.2

166 126.7 93.7 173.9

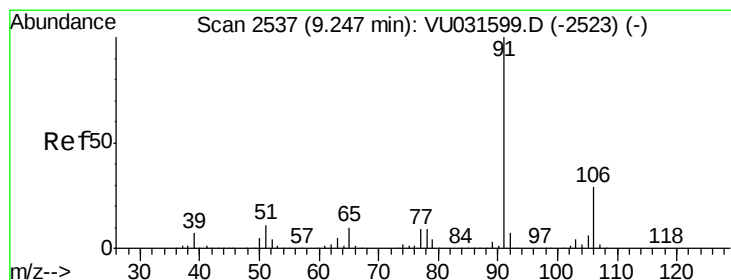
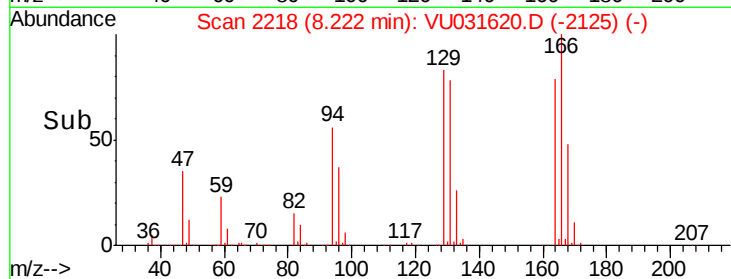
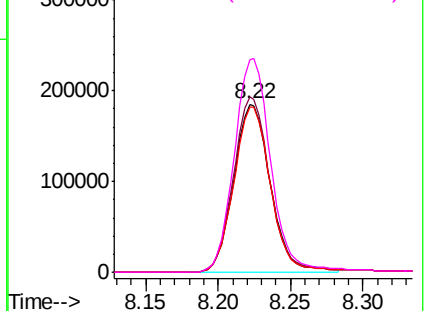


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#52

Ethylbenzene

Concen: 0.486 ug/L

RT: 9.25 min Scan# 2539

Delta R.T. 0.01 min

Lab File: VU031620.D

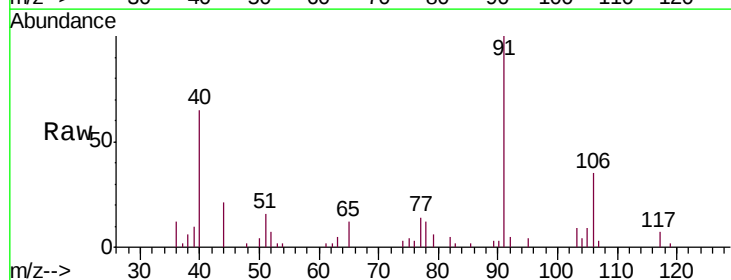
Acq: 30 Apr 2019 05:05

Tgt Ion: 91 Resp: 12177

Ion Ratio Lower Upper

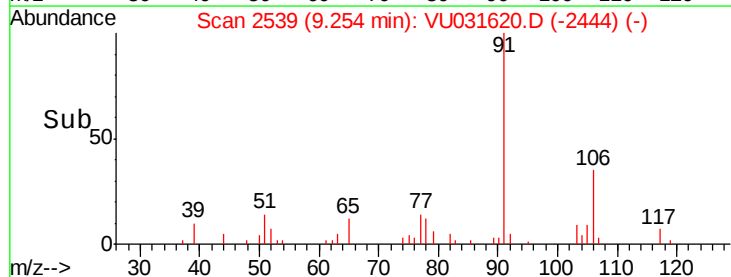
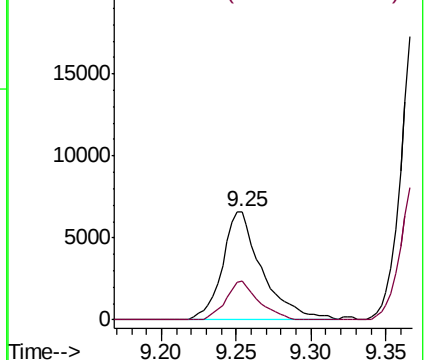
91 100

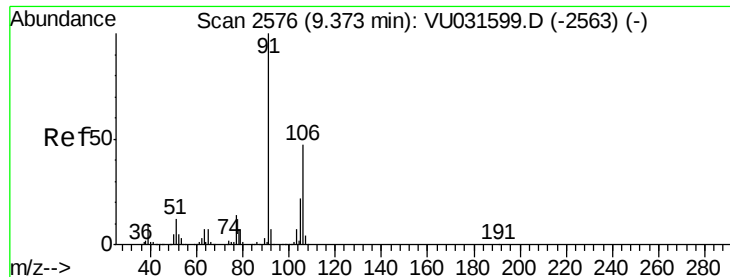
106 35.5 20.4 37.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 2.028 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU031620.D

Acq: 30 Apr 2019 05:05

Instrument :

MSVOA_U

ClientSampleId :

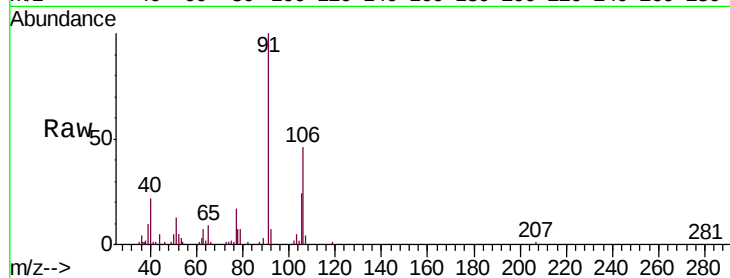
C0X73

Tgt Ion:106 Resp: 17697

Ion Ratio Lower Upper

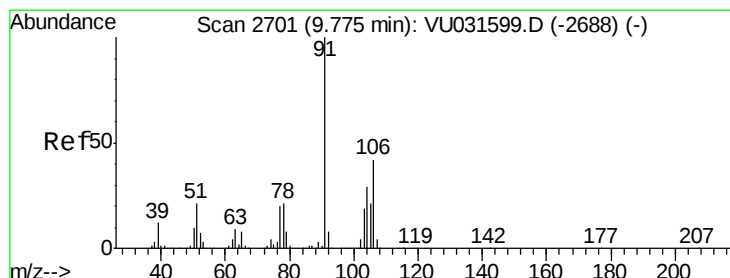
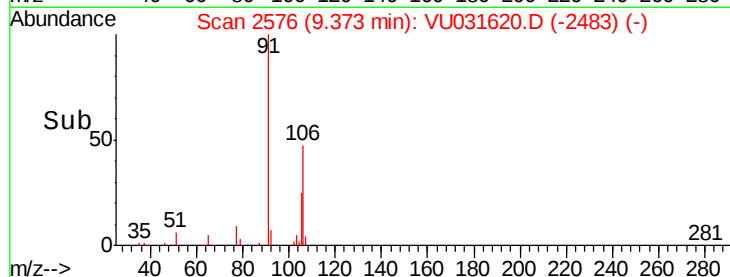
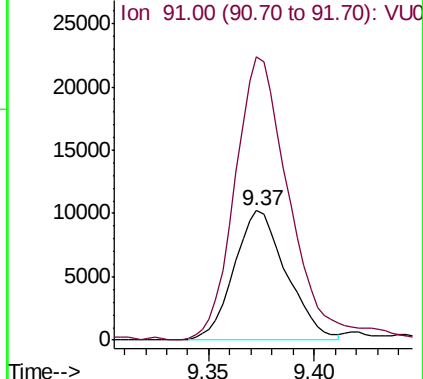
106 100

91 218.4 152.2 282.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 1.005 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.01 min

Lab File: VU031620.D

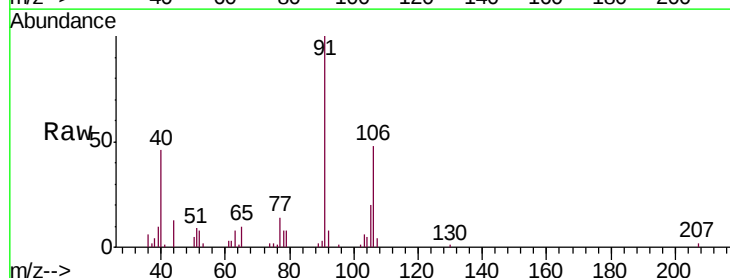
Acq: 30 Apr 2019 05:05

Tgt Ion:106 Resp: 8694

Ion Ratio Lower Upper

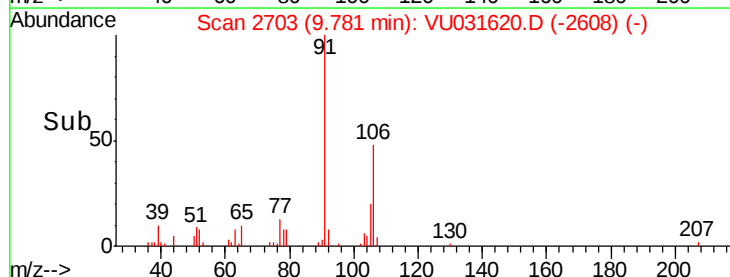
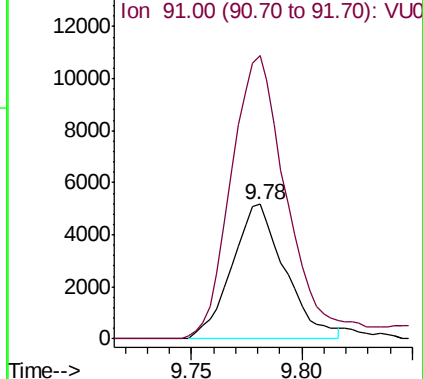
106 100

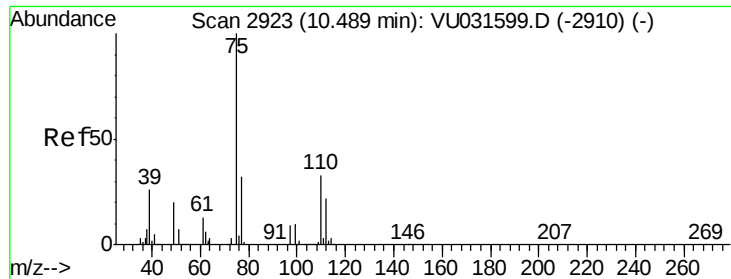
91 209.9 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#59

1,2,3-Trichloropropane

Concen: 4.300 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. 0.99 min

Lab File: VU031620.D

Acq: 30 Apr 2019 05:05

Instrument :

MSVOA_U

ClientSampleId :

C0X73

Tgt Ion: 75 Resp: 35092

Ion Ratio Lower Upper

75 100

77 38.0 25.9 38.9

