

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062918\
 Data File : VU025068.D
 Acq On : 29 Jun 2018 14:22
 Operator : MD/SY
 Sample : J3661-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X2D19

Quant Time: Jun 30 08:47:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM062918WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 29 23:41:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	351751	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	322004	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	176597	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	97242	46.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.50%
7) Chloroethane-d5	1.67	69	79967	46.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.22%
11) 1,1-Dichloroethene-d2	2.27	63	227784	49.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.32%
21) 2-Butanone-d5	4.17	46	162728	92.59	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.59%
24) Chloroform-d	4.65	84	196697	43.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.34%
26) 1,2-Dichloroethane-d4	5.31	65	148879	46.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.24%
32) Benzene-d6	5.34	84	410597	46.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.94%
36) 1,2-Dichloropropane-d6	6.33	67	130723	46.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.90%
41) Toluene-d8	7.57	98	400306	46.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.62%
43) trans-1,3-Dichloropropene-	7.85	79	64693	45.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.70%
47) 2-Hexanone-d5	8.31	63	123380	96.07	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.07%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	189336	47.48	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.96%
64) 1,2-Dichlorobenzene-d4	11.86	152	182381	47.40	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.80%

Target Compounds

						Ovalue
5) Vinyl chloride	1.40	62	234032	85.79	ug/L	98
9) Trichlorofluoromethane	1.88	101	304721	76.49	ug/L	99
12) 1,1-Dichloroethene	2.28	96	129514	60.03	ug/L	# 80
18) Methyl tert-butyl Ether	3.00	73	608005	74.80	ug/L	100
20) cis-1,2-Dichloroethene	4.23	96	100214	37.15	ug/L	99
33) Benzene	5.39	78	192540	19.72	ug/L	100
34) Trichloroethene	6.19	95	177894	68.48	ug/L	98
35) Methylcyclohexane	6.42	83	378049	87.21	ug/L	100
37) 1,2-Dichloropropane	6.43	63	52574	20.16	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	483930	128.80	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	73507	29.54	ug/L	98
46) Tetrachloroethene	8.23	164	109160	49.64	ug/L	99
48) 2-Hexanone	8.36	43	407192	136.23	ug/L	99
49) Dibromochloromethane	8.48	129	107410	36.78	ug/L	99
50) 1,2-Dibromoethane	8.59	107	316590	115.02	ug/L	100
52) Ethylbenzene	9.25	91	840546	70.42	ug/L	99
54) o-xylene	9.78	106	140186	30.26	ug/L	97

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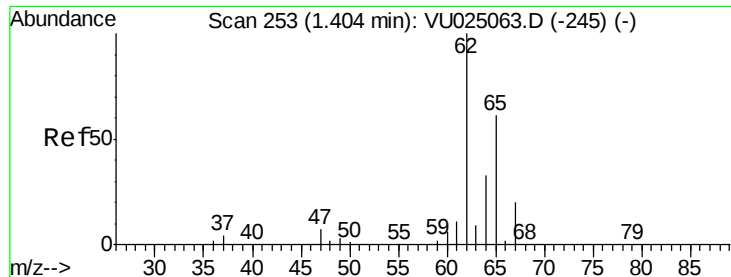
Instrument :
MSVOA_U
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Quant Time: Jun 30 08:47:38 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM062918WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jun 29 23:41:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.17	105	943744	77.55	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	346335	58.54	ug/L	98
68) 1,2,4-trichlorobenzene	13.51	180	195286	53.18	ug/L	99

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

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#5

Vinyl chloride

Concen: 85.79 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU025068.D

Acq: 29 Jun 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

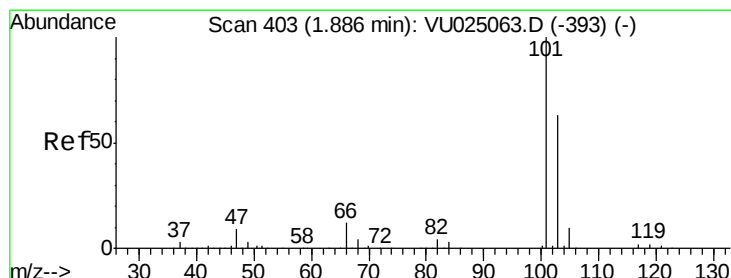
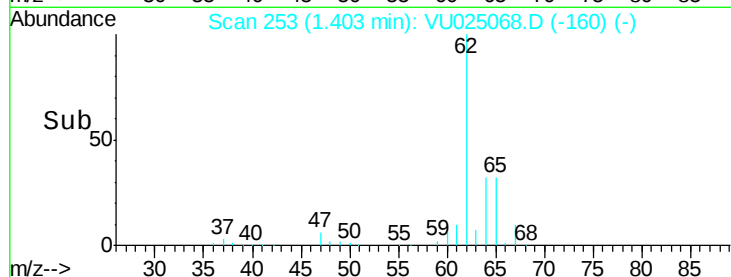
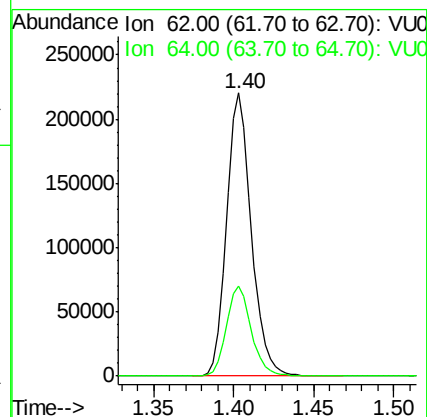
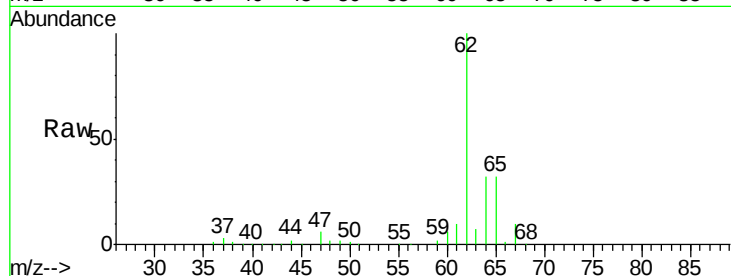
X2D19

Tot Ion: 62 Resp: 234032

Ion Ratio Lower Upper

62 100

64 31.8 23.0 42.8



#9

Trichlorofluoromethane

Concen: 76.49 ug/L

RT: 1.88 min Scan# 402

Delta R.T. -0.00 min

Lab File: VU025068.D

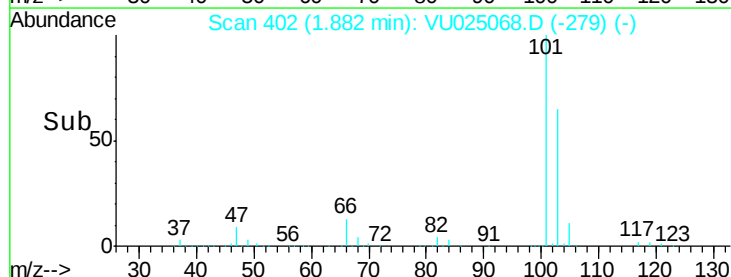
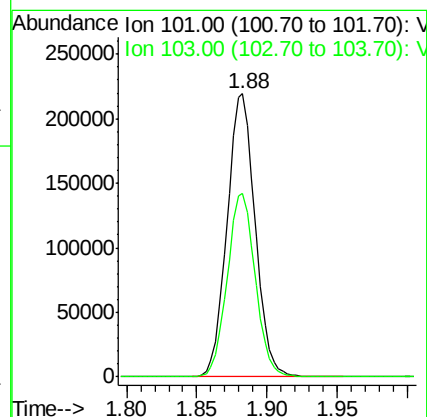
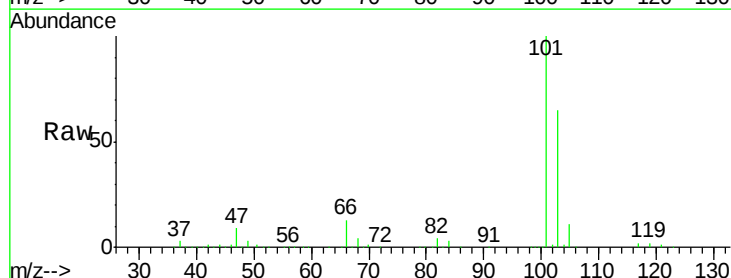
Acq: 29 Jun 2018 14:22

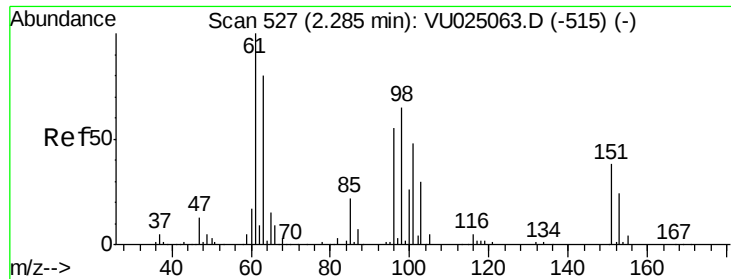
Tgt Ion: 101 Resp: 304721

Ion Ratio Lower Upper

101 100

103 64.7 51.1 76.7

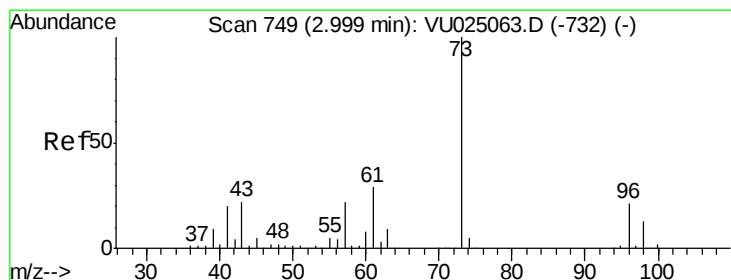
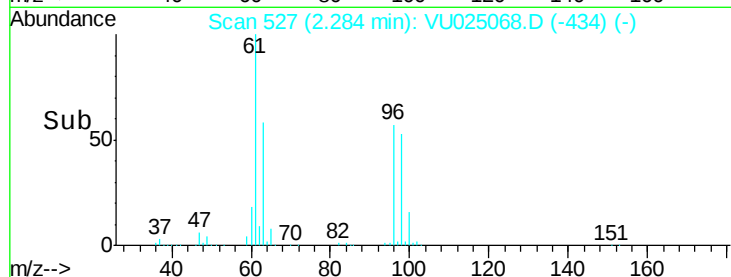
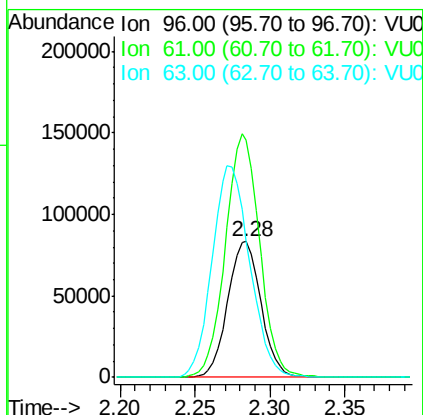
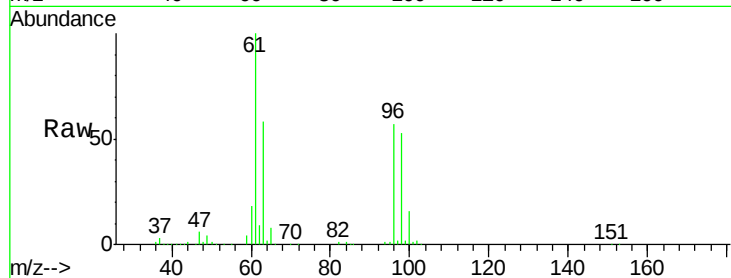




#12
 1,1-Dichloroethene
 Concen: 60.03 ug/L
 RT: 2.28 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VU025068.D
 Acq: 29 Jun 2018 14:22

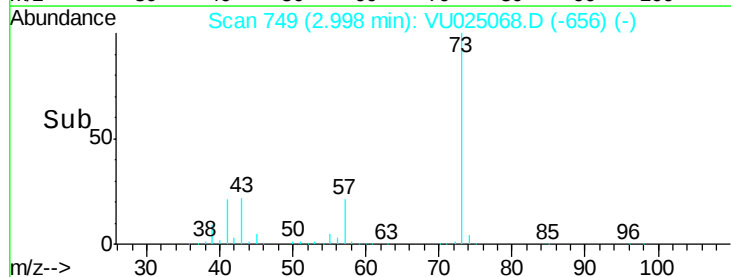
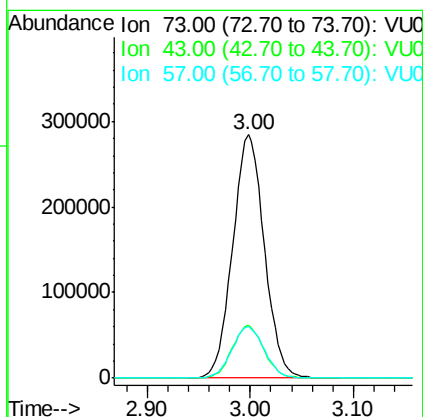
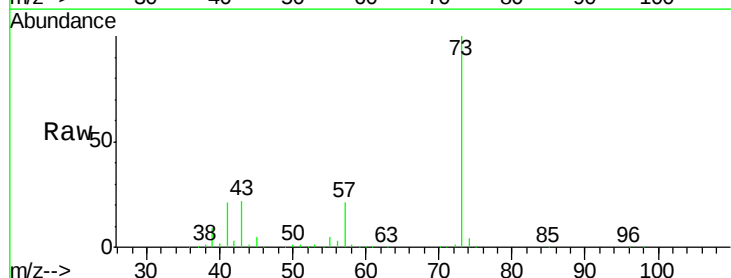
Instrument :
 MSVOA_U
 ClientSampleId :
 X2D19

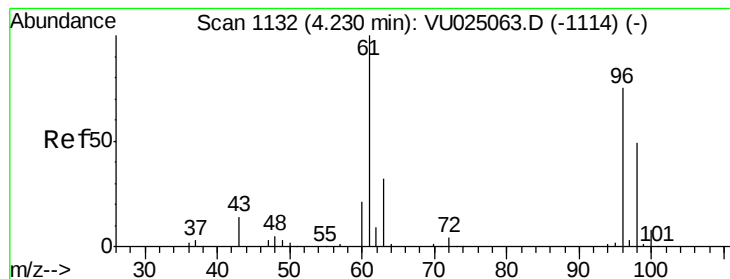
Tot Ion	96	Resp	129514
Ion	Ratio	Lower	Upper
96	100		
61	174.5	128.1	237.9
63	100.5	103.6	192.4#



#18
 Methyl tert-butyl Ether
 Concen: 74.80 ug/L
 RT: 3.00 min Scan# 749
 Delta R.T. -0.00 min
 Lab File: VU025068.D
 Acq: 29 Jun 2018 14:22

Tgt Ion	73	Resp	608005
Ion	Ratio	Lower	Upper
73	100		
43	21.7	17.2	25.8
57	21.7	17.2	25.8





#20

cis-1,2-Dichloroethene

Concen: 37.15 ug/L

RT: 4.23 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VU025068.D

Acq: 29 Jun 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

X2D19

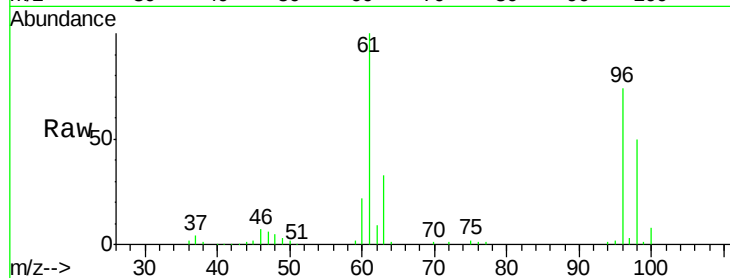
Tot Ion: 96 Resp: 100214

Ion Ratio Lower Upper

96 100

61 134.6 93.4 173.6

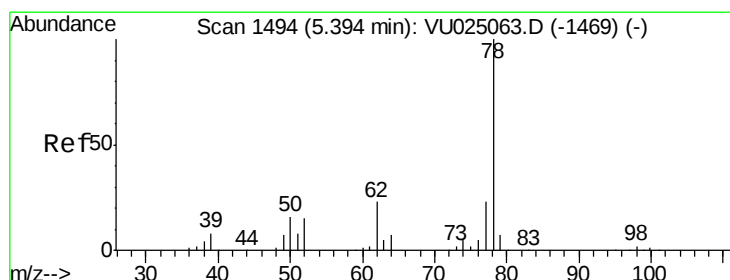
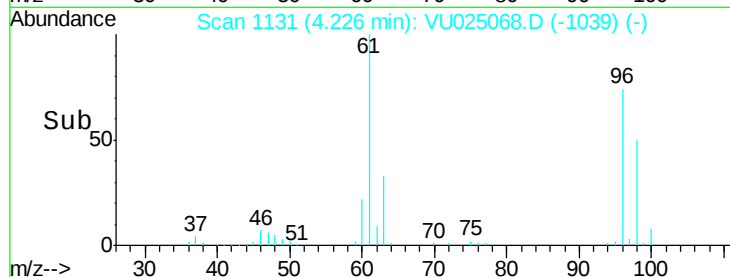
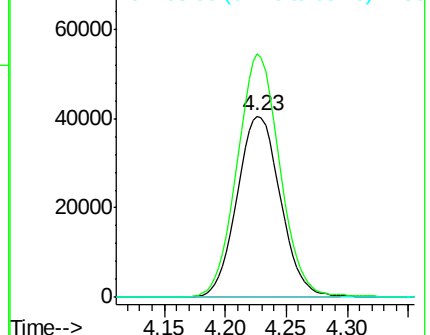
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU025063.D (-1114) (-)

Ion 61.00 (60.70 to 61.70): VU025063.D (-1114) (-)

Ion 68.00 (67.70 to 68.70): VU025063.D (-1114) (-)



#33

Benzene

Concen: 19.72 ug/L

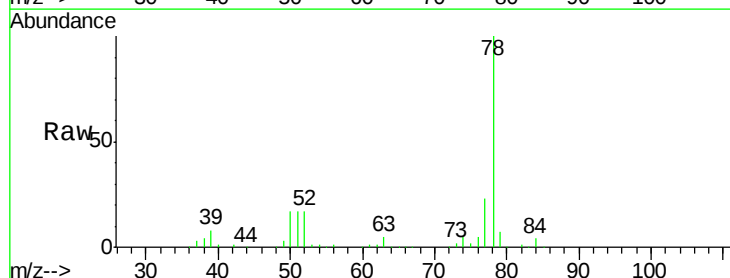
RT: 5.39 min Scan# 1493

Delta R.T. -0.00 min

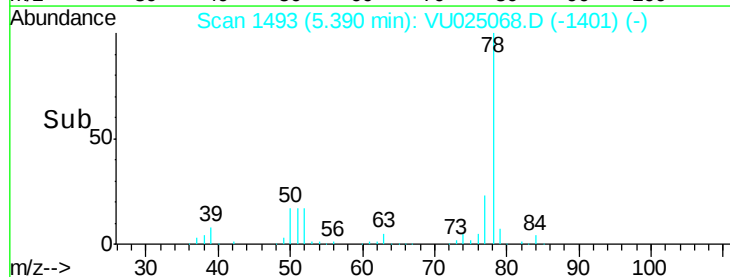
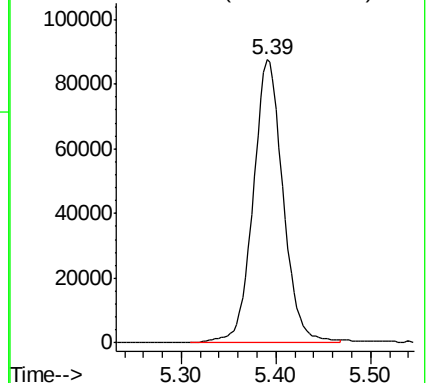
Lab File: VU025068.D

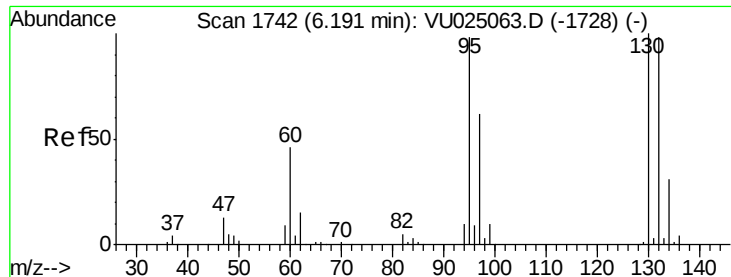
Acq: 29 Jun 2018 14:22

Tgt Ion: 78 Resp: 192540



Abundance Ion 78.00 (77.70 to 78.70): VU025063.D (-1469) (-)





#34

Trichloroethene

Concen: 68.48 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU025068.D

Acq: 29 Jun 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

X2D19

Tot Ion: 95 Resp: 177894

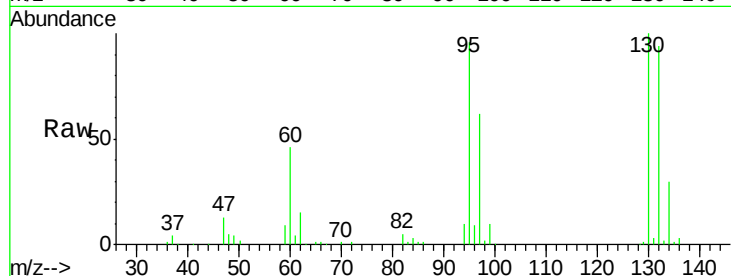
Ion Ratio Lower Upper

95 100

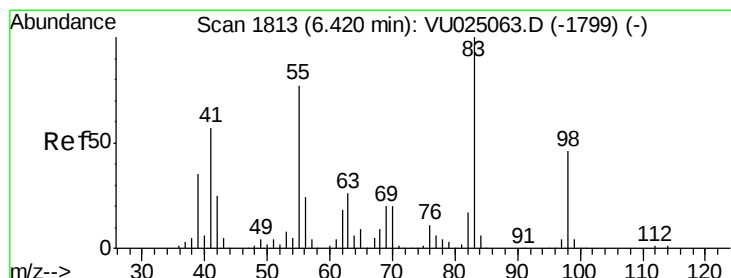
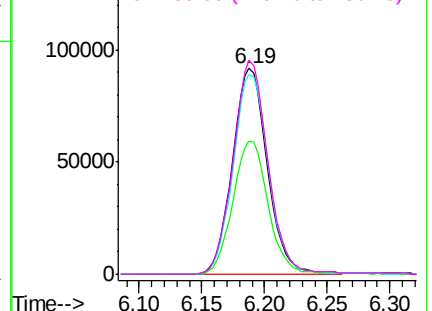
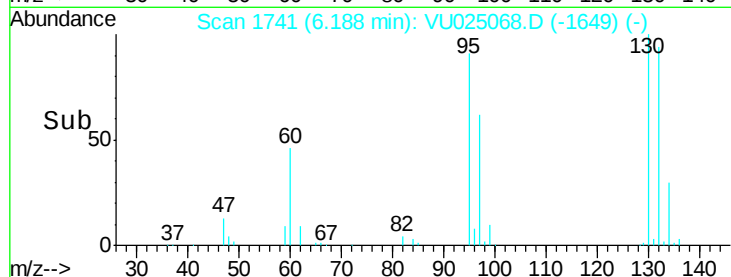
97 64.7 44.1 81.9

132 97.0 70.2 130.4

130 103.7 71.7 133.1



Abundance Ion 95.00 (94.70 to 95.70): VU025068.D (-1649) (-)



#35

Methylcyclohexane

Concen: 87.21 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VU025068.D

Acq: 29 Jun 2018 14:22

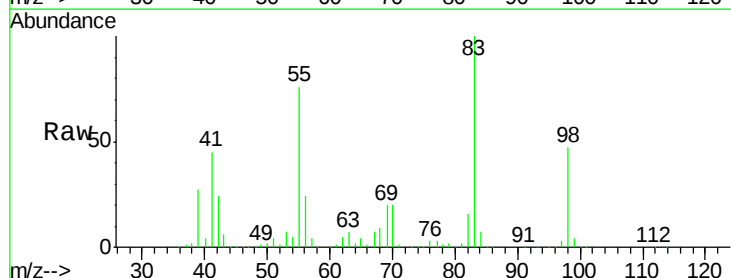
Tgt Ion: 83 Resp: 378049

Ion Ratio Lower Upper

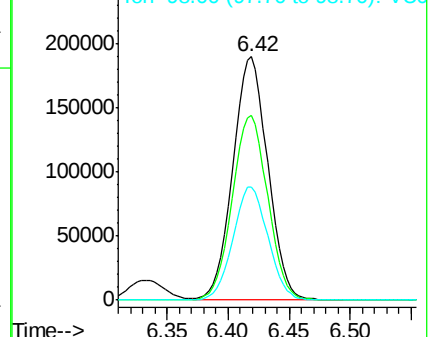
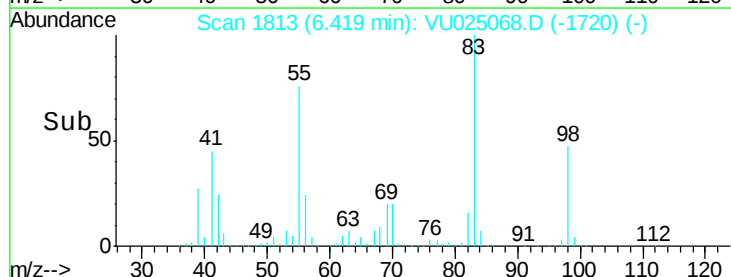
83 100

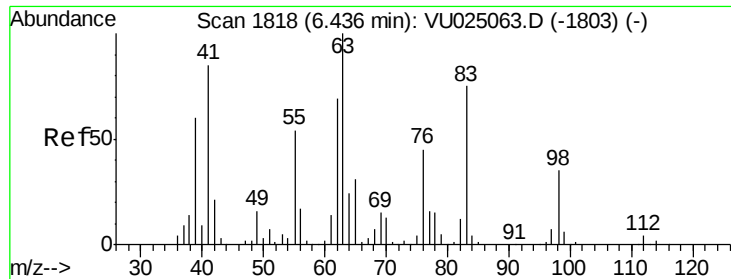
55 77.1 61.8 92.6

98 46.5 37.4 56.0



Abundance Ion 83.00 (82.70 to 83.70): VU025068.D (-1720) (-)

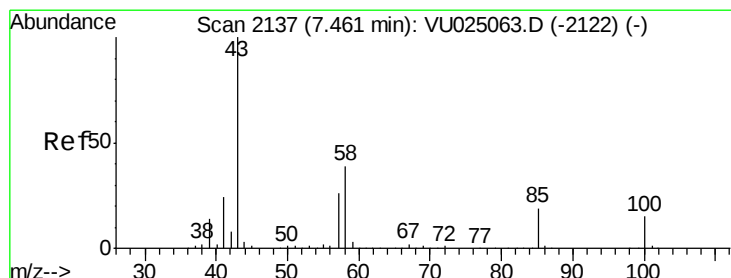
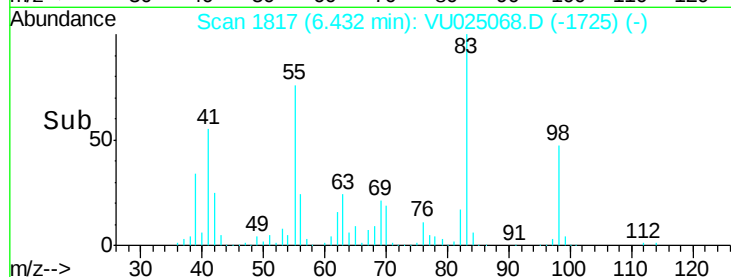
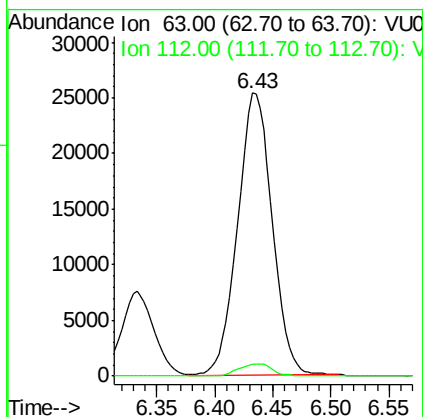
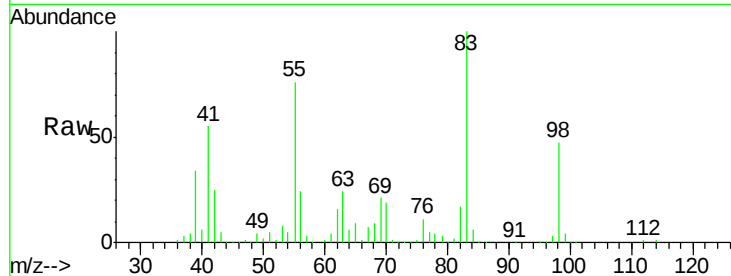




#37
 1,2-Dichloropropane
 Concen: 20.16 ug/L
 RT: 6.43 min Scan# 1817
 Delta R.T. -0.00 min
 Lab File: VU025068.D
 Acq: 29 Jun 2018 14:22

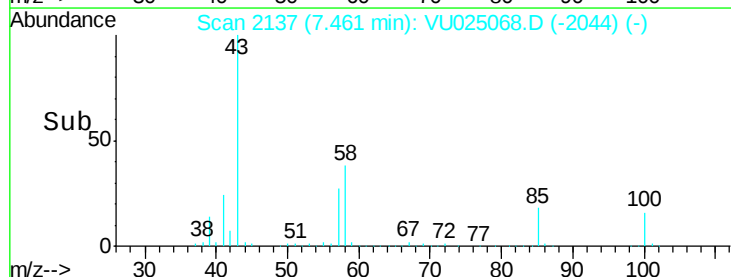
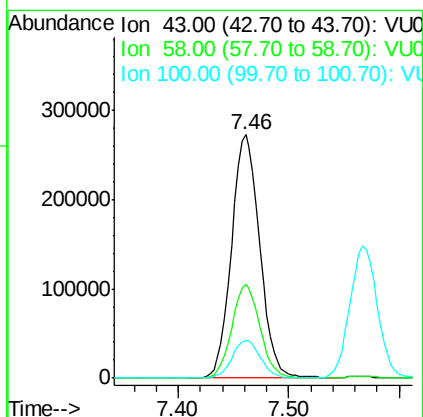
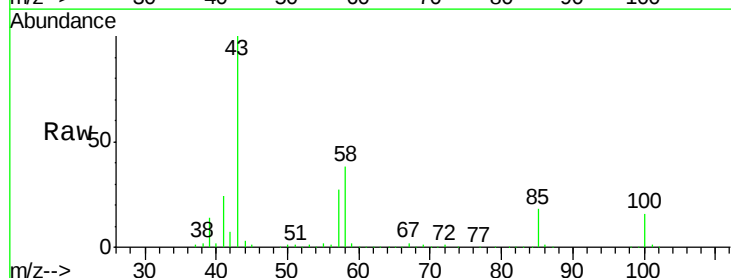
Instrument :
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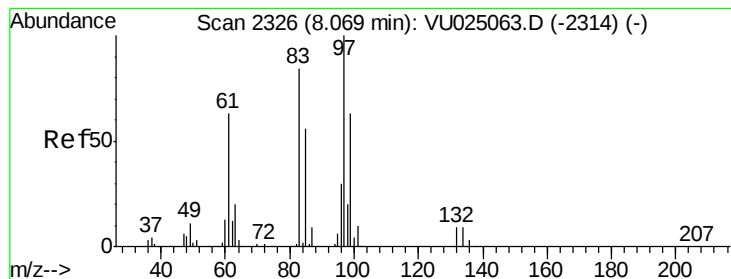
Tot Ion: 63 Resp: 52574
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.2 4.8



#40
 4-Methyl-2-pentanone
 Concen: 128.80 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU025068.D
 Acq: 29 Jun 2018 14:22

Tgt Ion: 43 Resp: 483930
 Ion Ratio Lower Upper
 43 100
 58 38.3 31.0 46.6
 100 15.6 12.3 18.5





#45

1,1,2-Trichloroethane

Concen: 29.54 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. -0.00 min

Lab File: VU025068.D

Acq: 29 Jun 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

X2D19

Tot Ion: 97 Resp: 73507

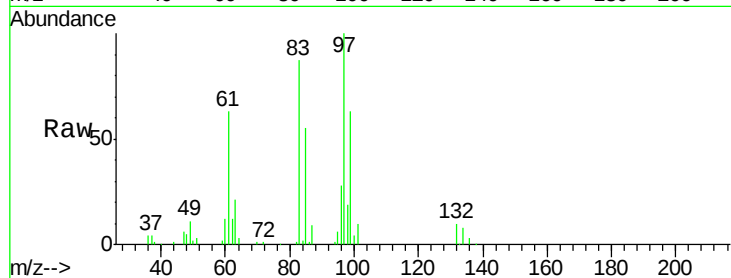
Ion	Ratio	Lower	Upper
97	100		
99	62.5	44.1	81.9
83	86.8	58.7	108.9
85	55.2	39.0	72.4

97 100

99 62.5 44.1 81.9

83 86.8 58.7 108.9

85 55.2 39.0 72.4



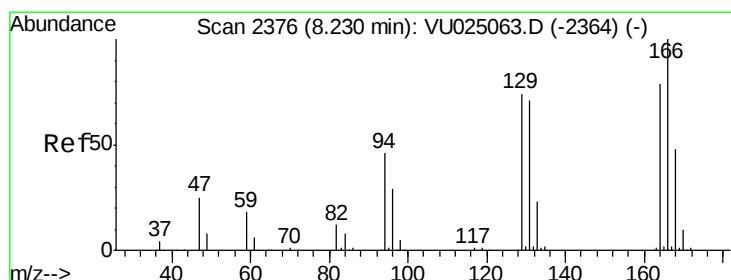
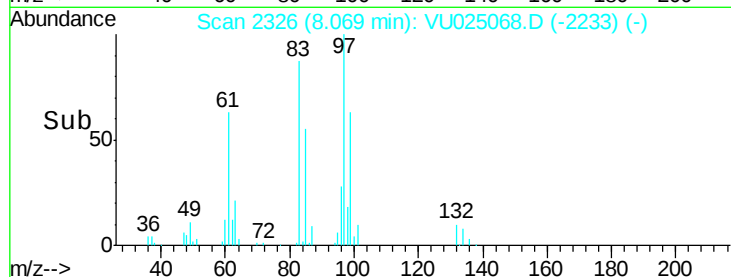
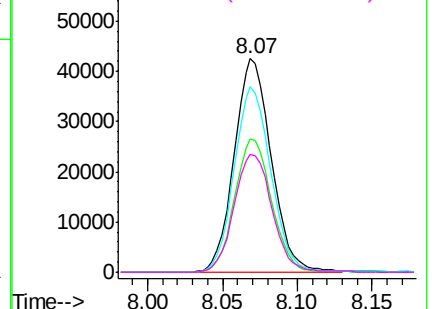
Abundance

Ion 97.00 (96.70 to 97.70): VU025068.D (-2233) (-)

Ion 99.00 (98.70 to 99.70): VU025068.D (-2233) (-)

Ion 83.00 (82.70 to 83.70): VU025068.D (-2233) (-)

Ion 85.00 (84.70 to 85.70): VU025068.D (-2233) (-)



#46

Tetrachloroethene

Concen: 49.64 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. -0.00 min

Lab File: VU025068.D

Acq: 29 Jun 2018 14:22

Tgt Ion:164 Resp: 109160

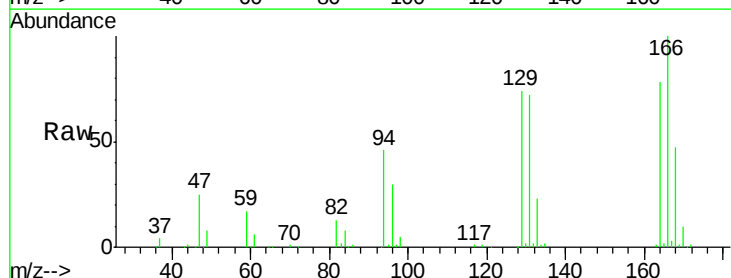
Ion	Ratio	Lower	Upper
164	100		
129	94.3	66.1	122.8
131	92.0	62.7	116.5
166	127.9	88.8	165.0

164 100

129 94.3 66.1 122.8

131 92.0 62.7 116.5

166 127.9 88.8 165.0



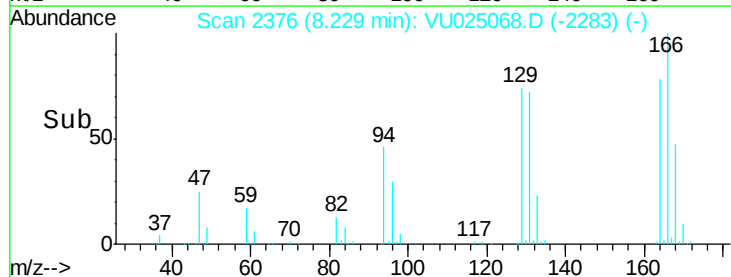
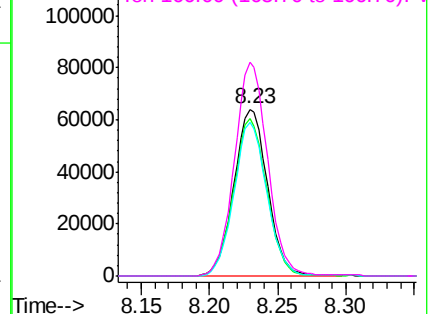
Abundance

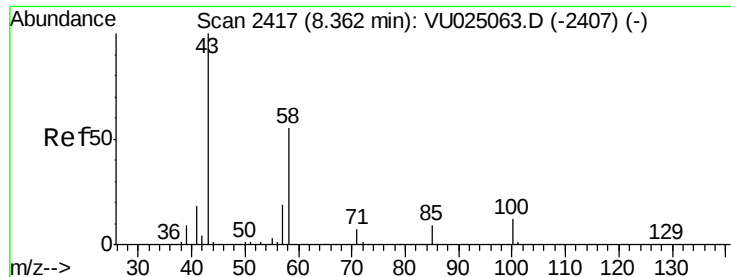
Ion 164.00 (163.70 to 164.70): VU025068.D (-2283) (-)

Ion 129.00 (128.70 to 129.70): VU025068.D (-2283) (-)

Ion 131.00 (130.70 to 131.70): VU025068.D (-2283) (-)

Ion 166.00 (165.70 to 166.70): VU025068.D (-2283) (-)

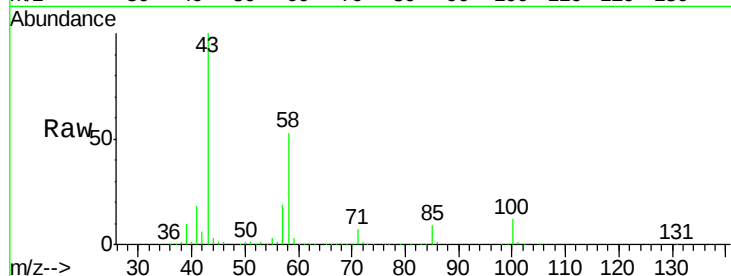




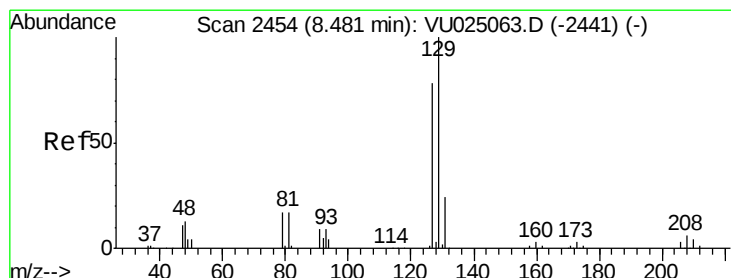
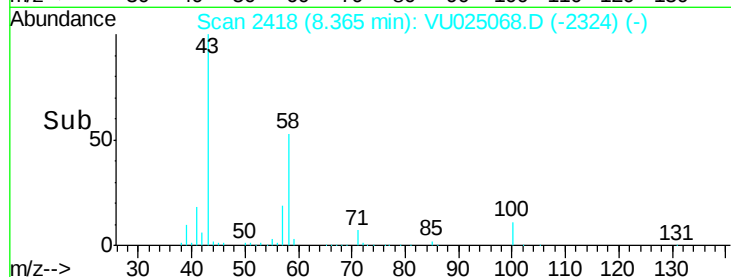
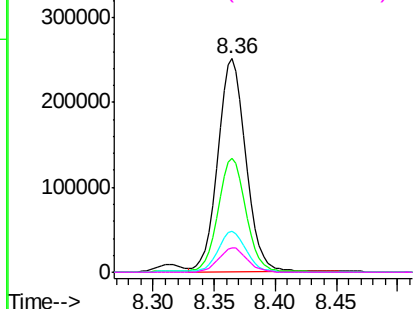
#48
2-Hexanone
Concen: 136.23 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU025068.D
Acq: 29 Jun 2018 14:22

Instrument :
MSVOA_U
ClientSampleId :
X2D19

Tot Ion: 43 Resp: 407192
Ion Ratio Lower Upper
43 100
58 52.9 43.2 64.8
57 19.3 15.8 23.8
100 11.7 9.4 14.0

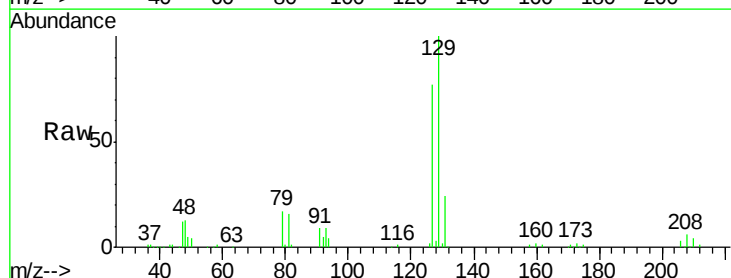


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

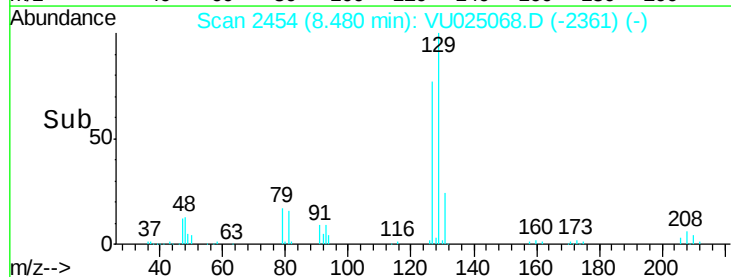
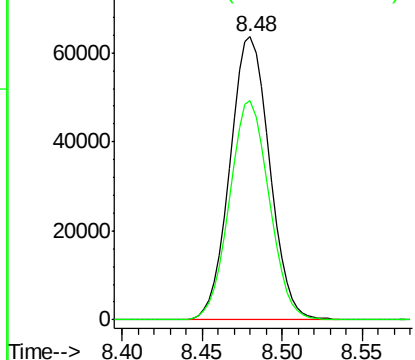


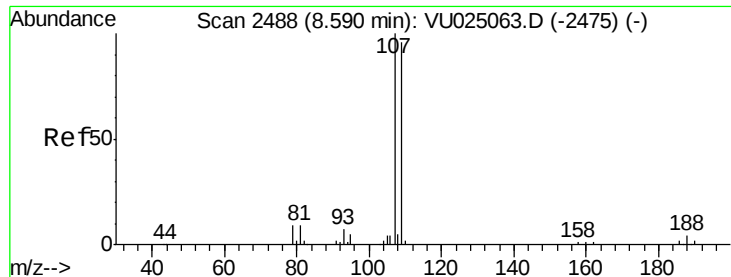
#49
Dibromochloromethane
Concen: 36.78 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU025068.D
Acq: 29 Jun 2018 14:22

Tgt Ion: 129 Resp: 107410
Ion Ratio Lower Upper
129 100
127 77.4 54.6 101.4



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

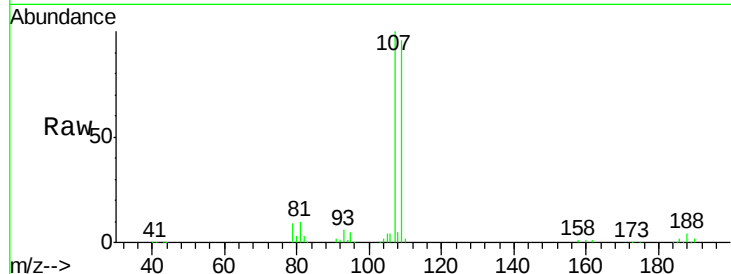




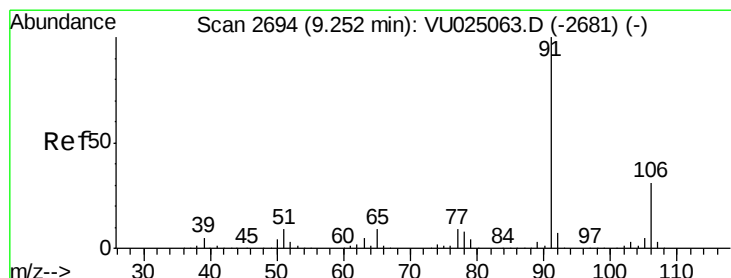
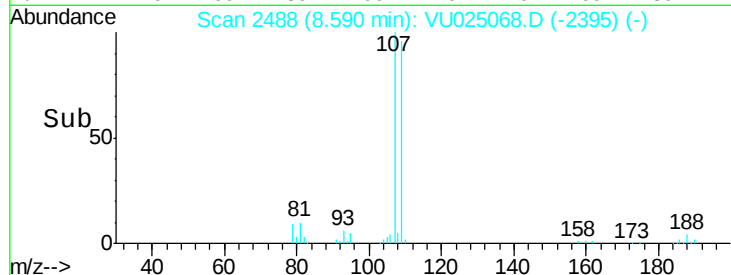
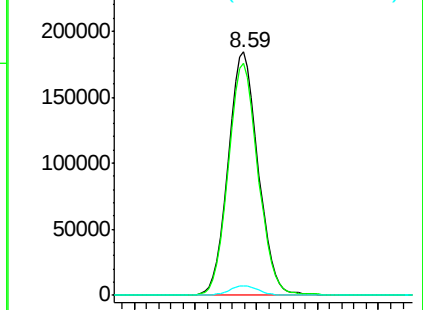
#50
1,2-Dibromoethane
Concen: 115.02 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. -0.00 min
Lab File: VU025068.D
Acq: 29 Jun 2018 14:22

Instrument :
MSVOA_U
ClientSampleId :
X2D19

Tot Ion	107	Resp	316590
Ion Ratio	Lower	Upper	
107	100		
109	95.6	67.1	124.5
188	3.9	3.4	5.0

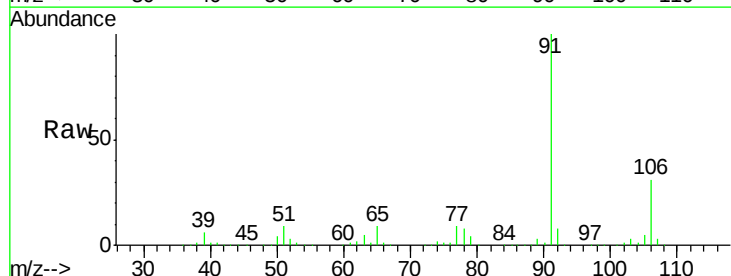


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

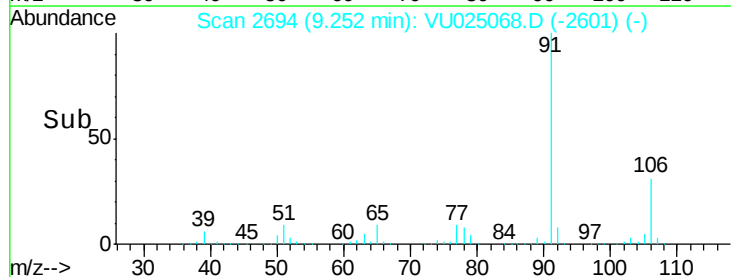
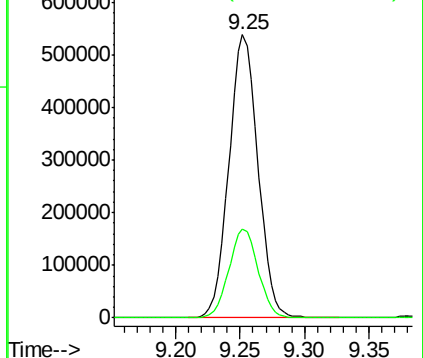


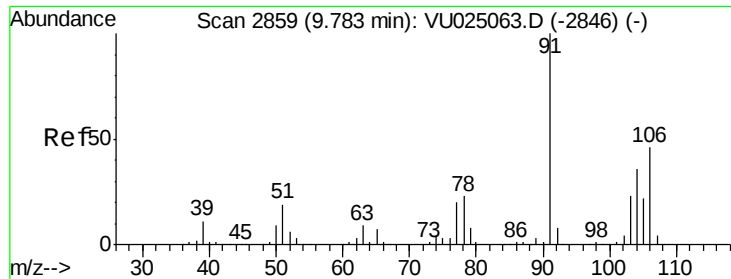
#52
Ethylbenzene
Concen: 70.42 ug/L
RT: 9.25 min Scan# 2694
Delta R.T. -0.00 min
Lab File: VU025068.D
Acq: 29 Jun 2018 14:22

Tgt Ion	91	Resp	840546
Ion Ratio	Lower	Upper	
91	100		
106	31.4	21.6	40.2



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 106.00 (105.70 to 106.70): V





#54

o-xylene

Concen: 30.26 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU025068.D

Acq: 29 Jun 2018 14:22

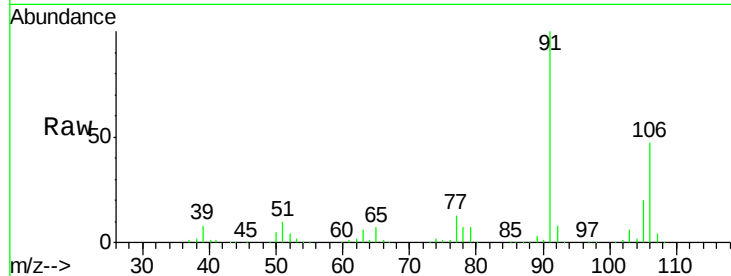
Instrument :
MSVOA_U
ClientSampled :
X2D19

Tot Ion:106 Resp: 140186

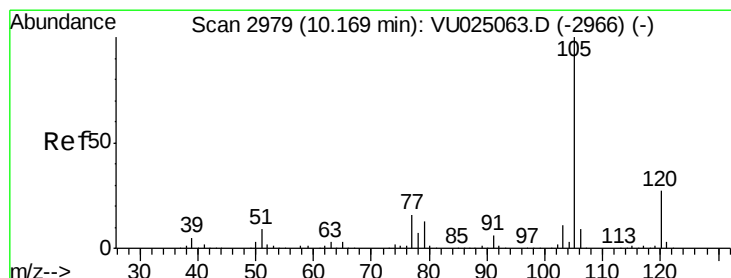
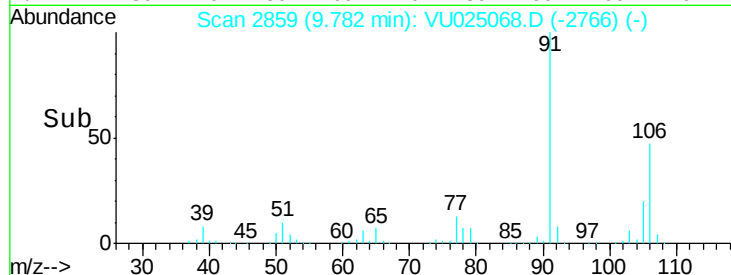
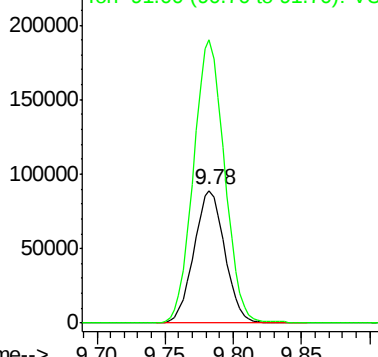
Ion Ratio Lower Upper

106 100

91 212.9 152.0 282.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0



#56

Isopropylbenzene

Concen: 77.55 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU025068.D

Acq: 29 Jun 2018 14:22

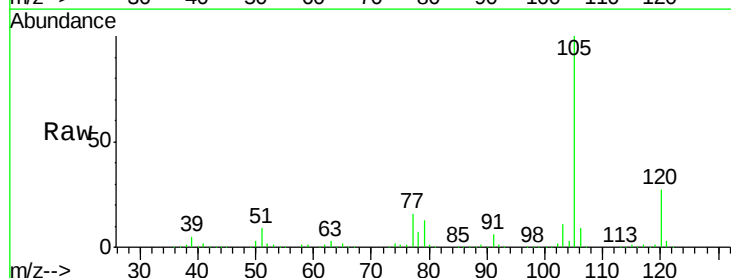
Tgt Ion:105 Resp: 943744

Ion Ratio Lower Upper

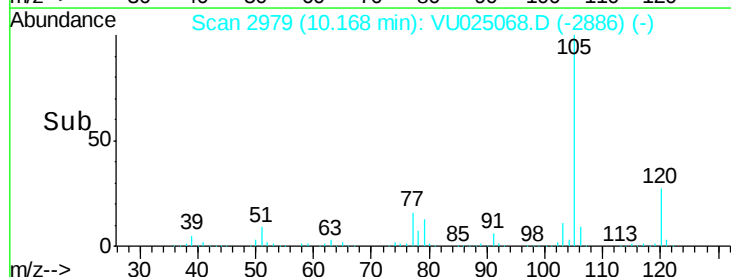
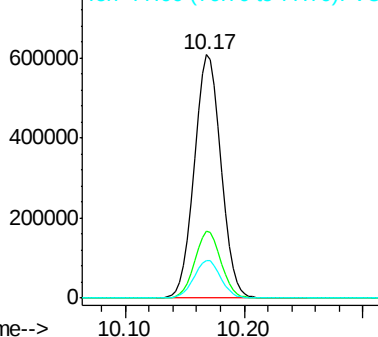
105 100

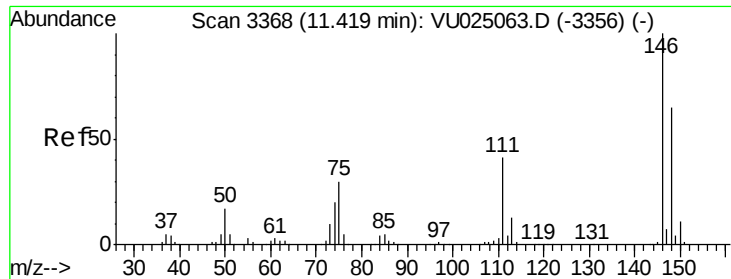
120 27.1 21.4 32.0

77 15.6 12.5 18.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): VU0

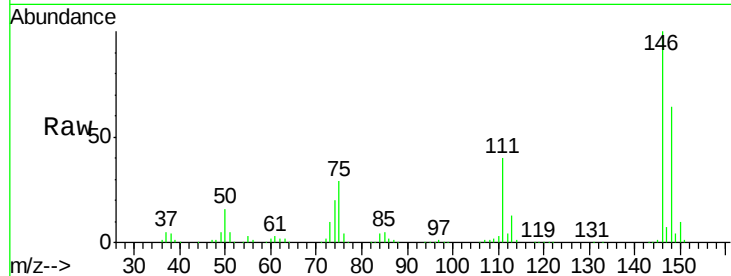




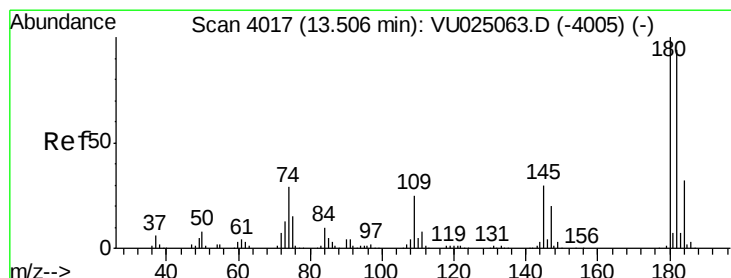
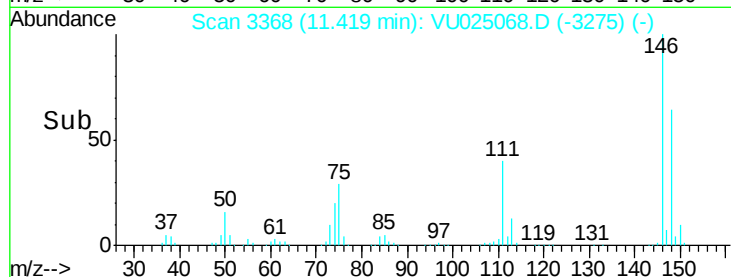
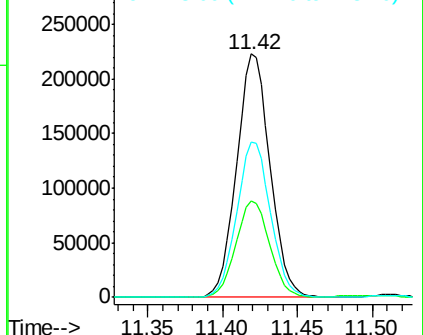
#62
 1,3-Dichlorobenzene
 Concen: 58.54 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU025068.D
 Acq: 29 Jun 2018 14:22

Instrument :
 MSVOA_U
 ClientSampleId :
 X2D19

Tot Ion:146 Resp: 346335
 Ion Ratio Lower Upper
 146 100
 111 39.6 28.7 53.3
 148 63.7 45.3 84.1

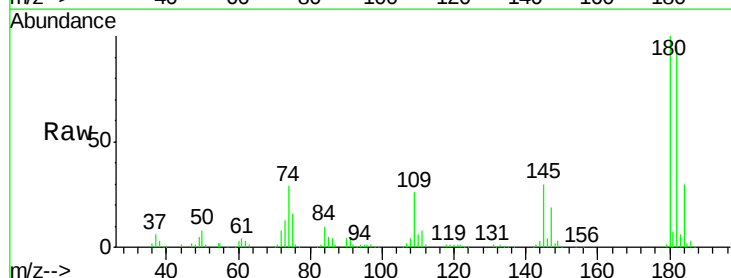


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 53.18 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025068.D
 Acq: 29 Jun 2018 14:22

Tgt Ion:180 Resp: 195286
 Ion Ratio Lower Upper
 180 100
 182 95.3 75.9 113.9
 145 30.6 23.8 35.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

