

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080718\
 Data File : VU025940.D
 Acq On : 07 Aug 2018 14:59
 Operator : MD/SY
 Sample : J4363-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZD6

Quant Time: Aug 08 09:05:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080718WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 07 12:44:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	373482	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	352203	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	187744	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	99464	48.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.12%
7) Chloroethane-d5	1.66	69	78235	50.41	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.82%
11) 1,1-Dichloroethene-d2	2.27	63	144786	36.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.24%
21) 2-Butanone-d5	4.18	46	141670	99.48	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.48%
24) Chloroform-d	4.65	84	199120	49.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.40%
26) 1,2-Dichloroethane-d4	5.31	65	130455	49.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.66%
32) Benzene-d6	5.34	84	387266	49.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.76%
36) 1,2-Dichloropropane-d6	6.33	67	121667	50.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.82%
41) Toluene-d8	7.57	98	374492	49.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.44%
43) trans-1,3-Dichloropropene-	7.85	79	62196	49.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.28%
47) 2-Hexanone-d5	8.31	63	99412	98.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.97%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	167514	50.10	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	160797	51.84	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.68%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	31492	11.08	ug/L	97
3) Chloromethane	1.33	50	84984	35.55	ug/L	99
6) Bromomethane	1.61	94	11142	9.76	ug/L	98
9) Trichlorofluoromethane	1.88	101	98410	26.50	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	55602	27.09	ug/L	97
14) Carbon disulfide	2.47	76	161254	24.01	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	115371	49.63	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	762632	103.19	ug/L	99
25) Chloroform	4.67	83	180783	40.48	ug/L	100
27) 1,2-Dichloroethane	5.41	62	148153	41.60	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	80666	20.12	ug/L	98
31) Carbon tetrachloride	5.14	117	153098	42.70	ug/L	98
35) Methylcyclohexane	6.42	83	99743	25.72	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	120681	30.12	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	228686	68.19	ug/L	99
42) Toluene	7.64	91	513656	51.13	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	64541	27.47	ug/L	97

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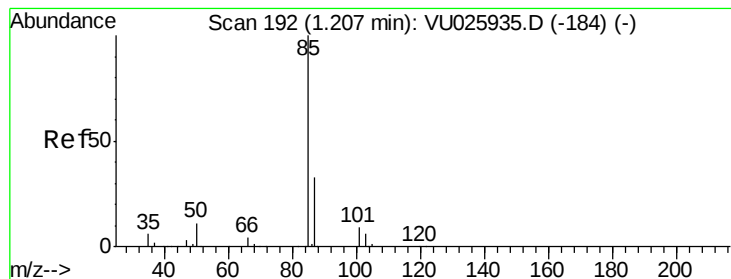
Instrument :
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 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.48	129	100423	34.80	ug/L	99
50) 1,2-Dibromoethane	8.59	107	107779	40.90	ug/L	99
53) m,p-Xylene	9.38	106	152143	33.93	ug/L	96
55) Styrene	9.80	104	176759	24.57	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.46	83	94924	24.03	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	171166	29.91	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	25854	30.21	ug/L	93
70) 1,2,3-Trichlorobenzene	13.99	180	171719	46.66	ug/L	99

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

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```



#2

Dichlorodifluoromethane

Concen: 11.08 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU025940.D

Acq: 07 Aug 2018 14:59

Instrument :

MSVOA_U

ClientSampleId :

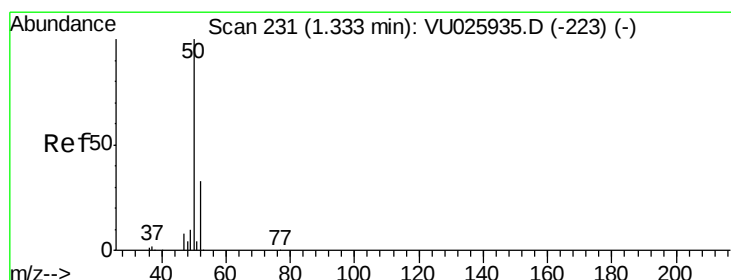
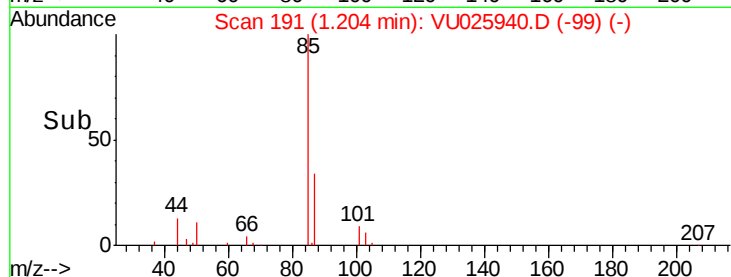
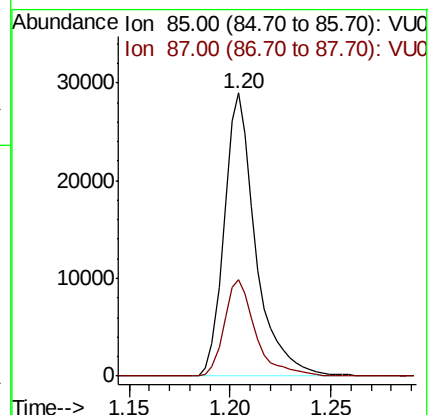
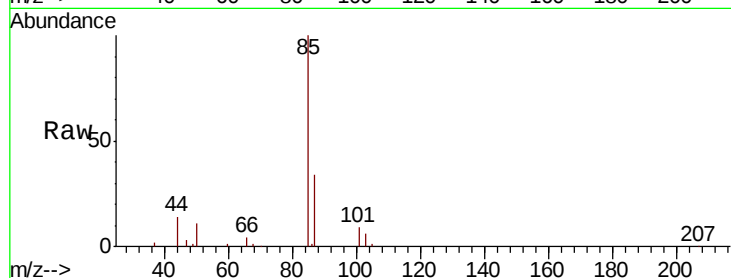
A4ZD6

Tot Ion: 85 Resp: 31492

Ion Ratio Lower Upper

85 100

87 33.7 25.6 38.4



#3

Chloromethane

Concen: 35.55 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025940.D

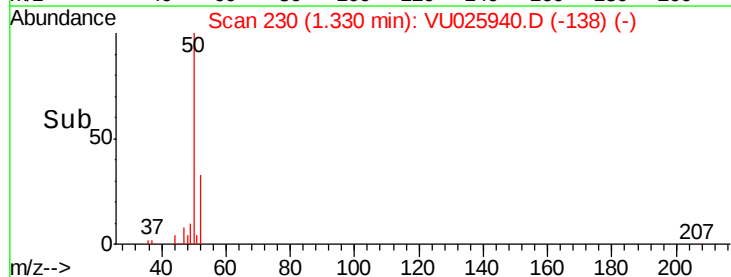
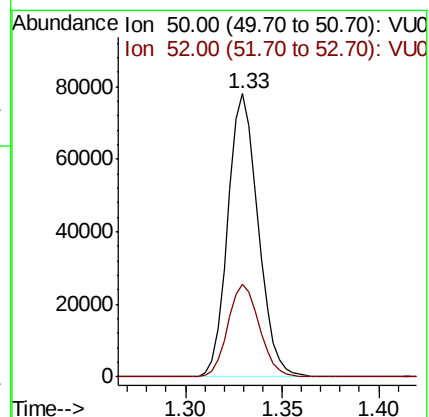
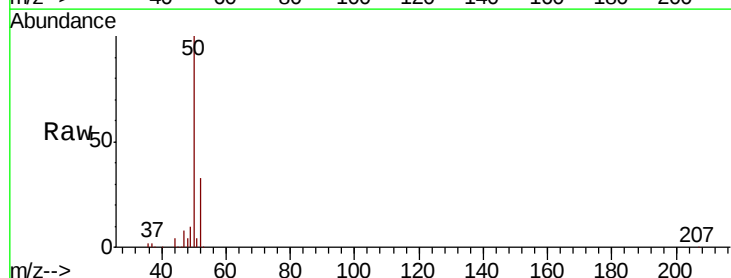
Acq: 07 Aug 2018 14:59

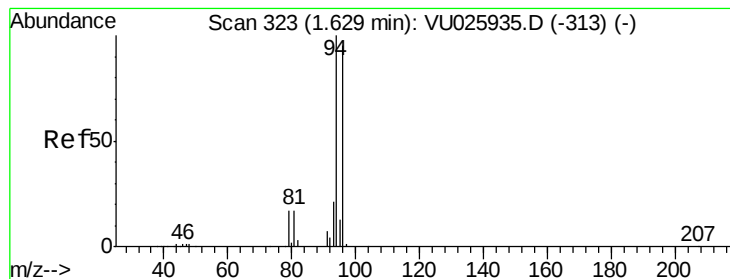
Tgt Ion: 50 Resp: 84984

Ion Ratio Lower Upper

50 100

52 32.5 23.2 43.2





#6

Bromomethane

Concen: 9.76 ug/L

RT: 1.61 min Scan# 317

Delta R.T. -0.02 min

Lab File: VU025940.D

Acq: 07 Aug 2018 14:59

Instrument :

MSVOA_U

ClientSampleId :

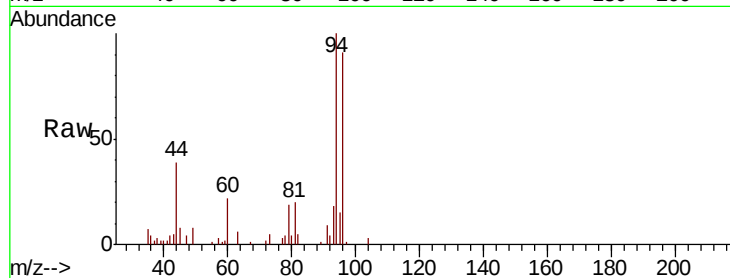
A4ZD6

Tot Ion: 94 Resp: 11142

Ion Ratio Lower Upper

94 100

96 90.7 62.4 115.8

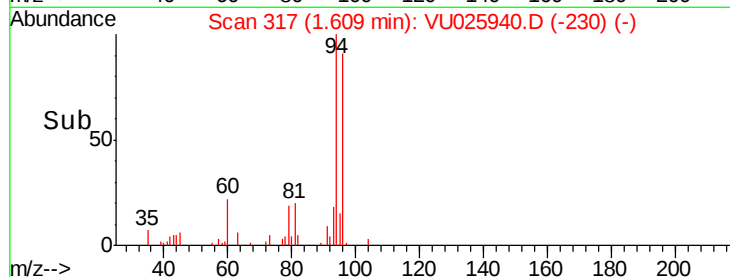


Abundance Ion 94.00 (93.70 to 94.70): VU025935.D (-313) (-)

Ion 96.00 (95.70 to 96.70): VU025935.D (-313) (-)

1.61

Time-->

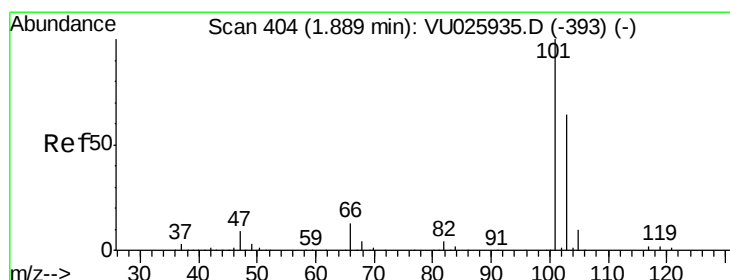


Abundance Ion 94.00 (93.70 to 94.70): VU025940.D (-230) (-)

Ion 96.00 (95.70 to 96.70): VU025940.D (-230) (-)

1.61

Time-->



#9

Trichlorofluoromethane

Concen: 26.50 ug/L

RT: 1.88 min Scan# 401

Delta R.T. -0.01 min

Lab File: VU025940.D

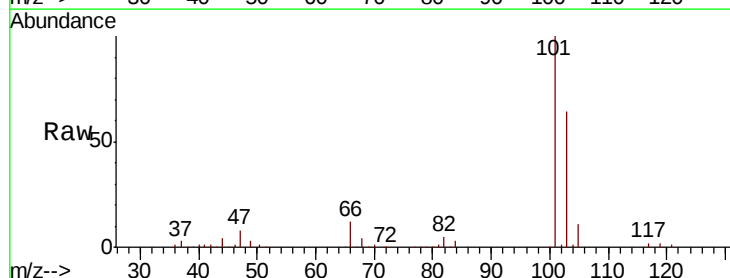
Acq: 07 Aug 2018 14:59

Tgt Ion: 101 Resp: 98410

Ion Ratio Lower Upper

101 100

103 63.7 52.0 78.0

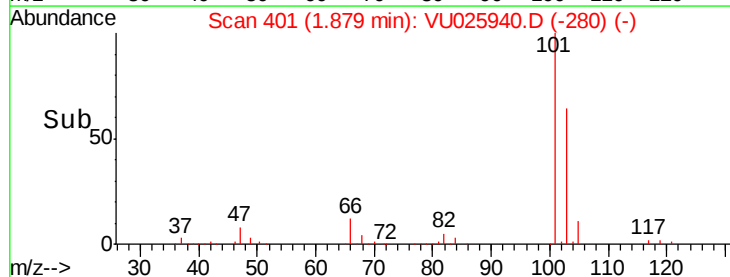


Abundance Ion 101.00 (100.70 to 101.70): VU025935.D (-393) (-)

Ion 103.00 (102.70 to 103.70): VU025935.D (-393) (-)

1.88

Time-->

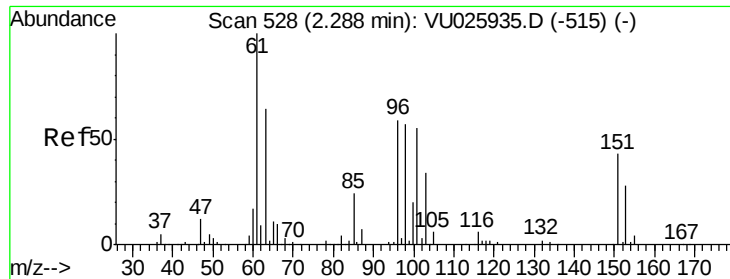


Abundance Ion 101.00 (100.70 to 101.70): VU025940.D (-280) (-)

Ion 103.00 (102.70 to 103.70): VU025940.D (-280) (-)

1.88

Time-->



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 27.09 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.01 min

Lab File: VU025940.D

Acq: 07 Aug 2018 14:59

Instrument :

MSVOA_U

ClientSampleId :

A4ZD6

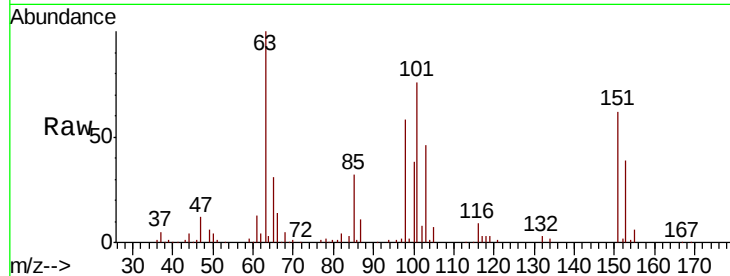
Tot Ion:101 Resp: 55602

Ion Ratio Lower Upper

101 100

85 44.7 35.5 53.3

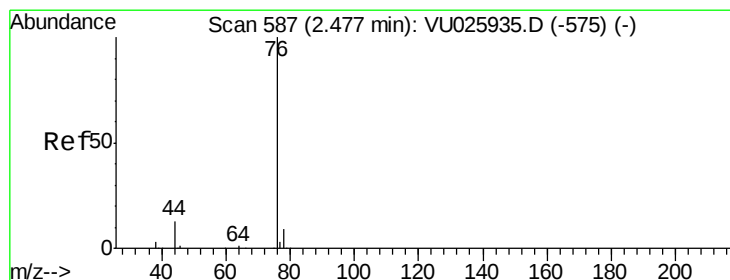
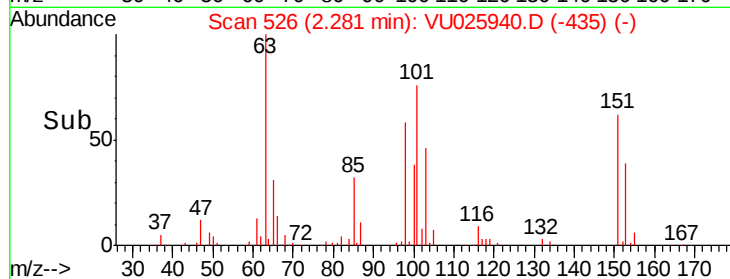
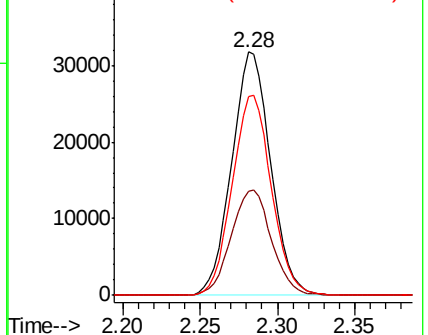
151 82.6 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#14

Carbon disulfide

Concen: 24.01 ug/L

RT: 2.47 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU025940.D

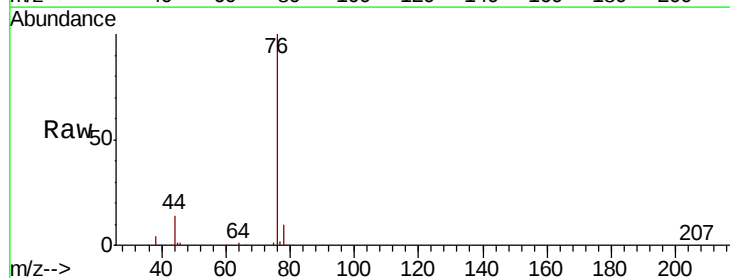
Acq: 07 Aug 2018 14:59

Tgt Ion: 76 Resp: 161254

Ion Ratio Lower Upper

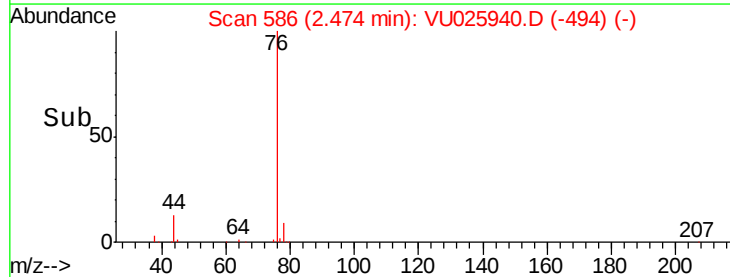
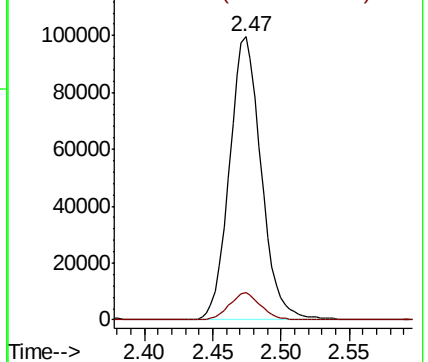
76 100

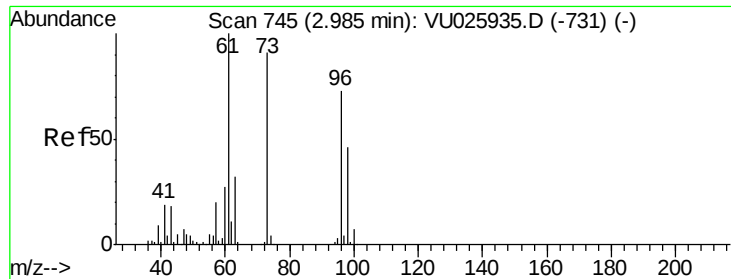
78 9.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 49.63 ug/L

RT: 2.98 min Scan# 743

Delta R.T. -0.01 min

Lab File: VU025940.D

Acq: 07 Aug 2018 14:59

Instrument :

MSVOA_U

ClientSampleId :

A4ZD6

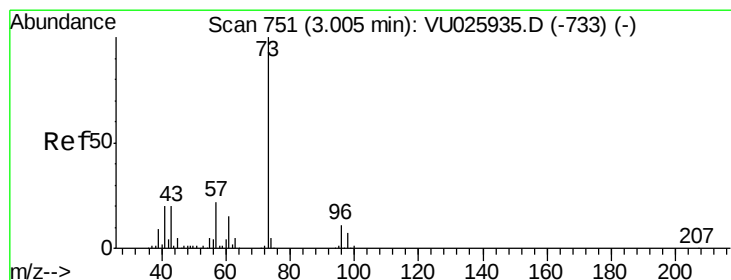
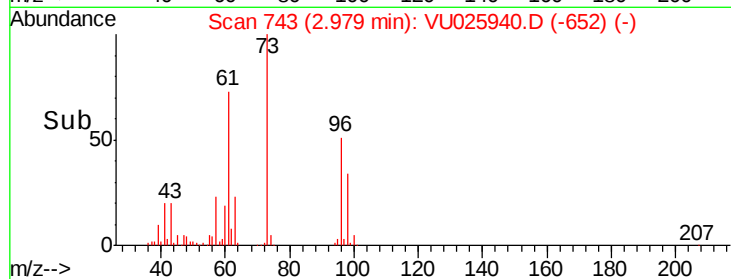
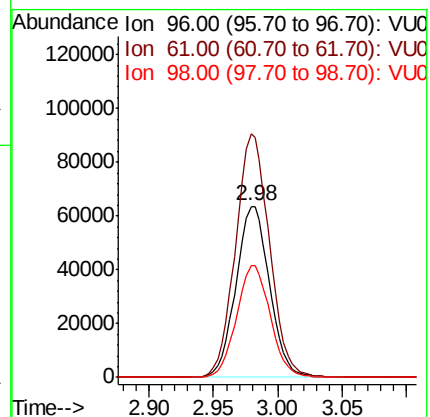
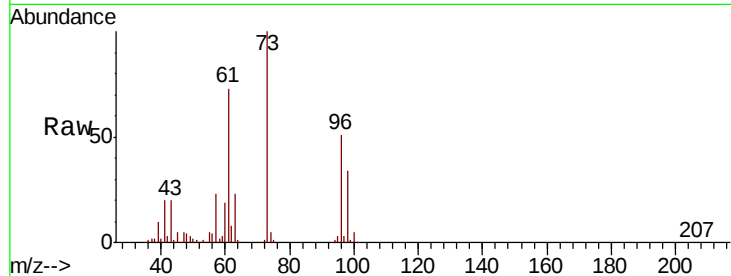
Tot Ion: 96 Resp: 115371

Ion Ratio Lower Upper

96 100

61 142.3 100.0 185.8

98 65.1 44.7 83.1



#18

Methyl tert-butyl Ether

Concen: 103.19 ug/L

RT: 3.00 min Scan# 749

Delta R.T. -0.01 min

Lab File: VU025940.D

Acq: 07 Aug 2018 14:59

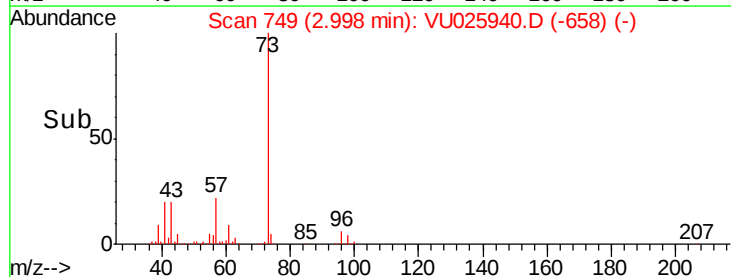
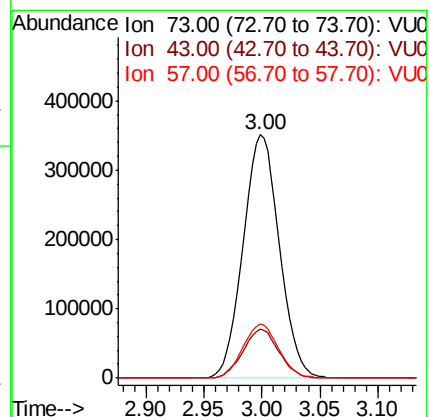
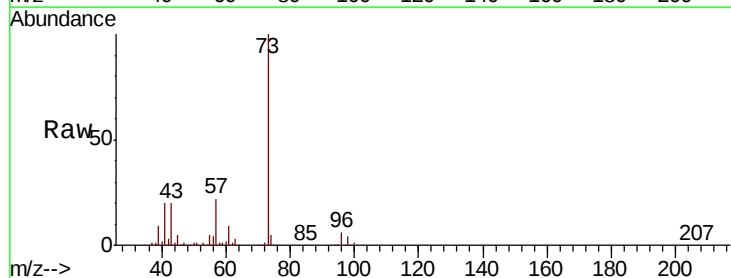
Tgt Ion: 73 Resp: 762632

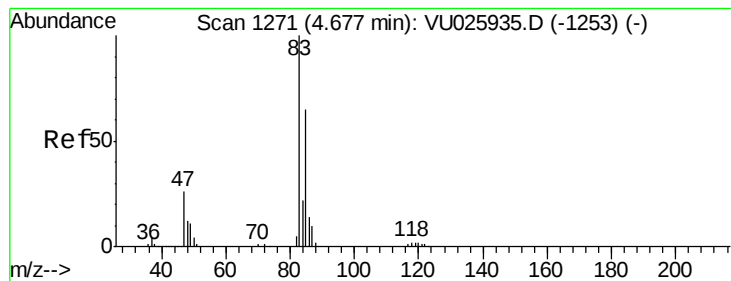
Ion Ratio Lower Upper

73 100

43 20.0 16.2 24.2

57 21.9 17.1 25.7





#25

Chloroform

Concen: 40.48 ug/L

RT: 4.67 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VU025940.D

Acq: 07 Aug 2018 14:59

Instrument :

MSVOA_U

ClientSampleId :

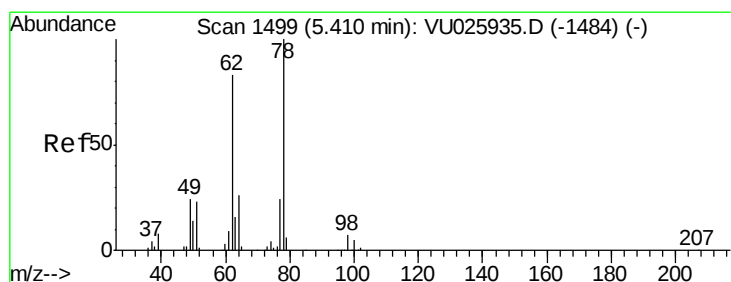
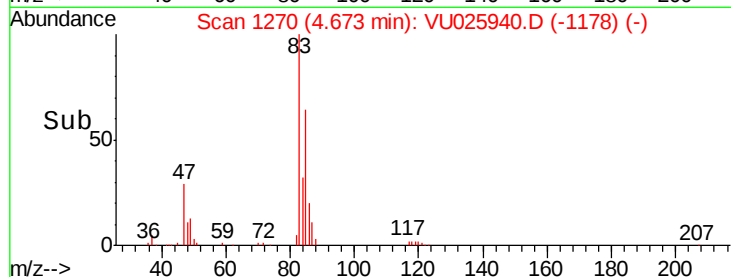
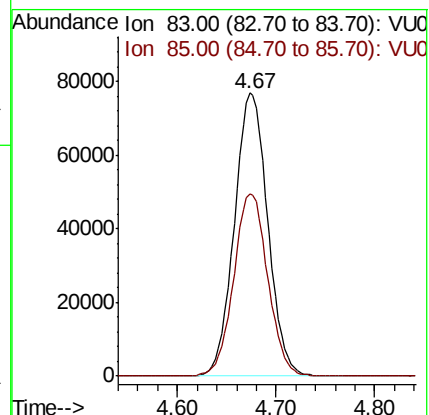
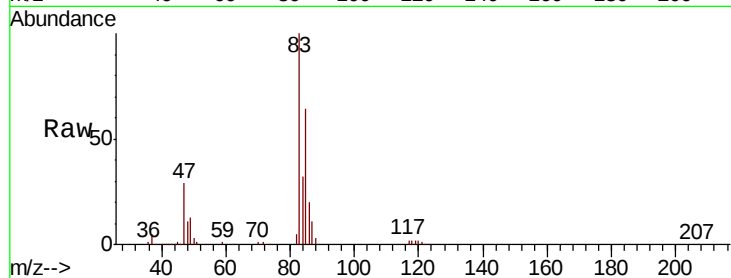
A4ZD6

Tot Ion: 83 Resp: 180783

Ion Ratio Lower Upper

83 100

85 64.3 45.0 83.6



#27

1,2-Dichloroethane

Concen: 41.60 ug/L

RT: 5.41 min Scan# 1498

Delta R.T. -0.00 min

Lab File: VU025940.D

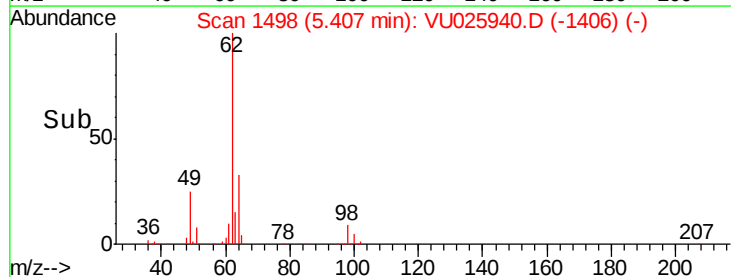
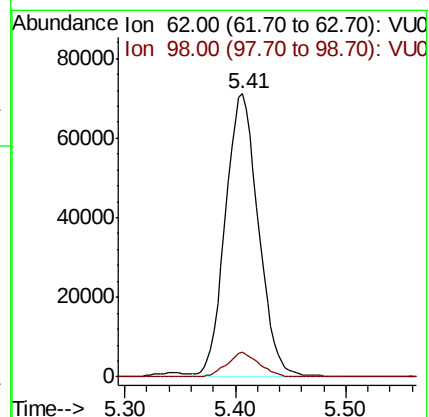
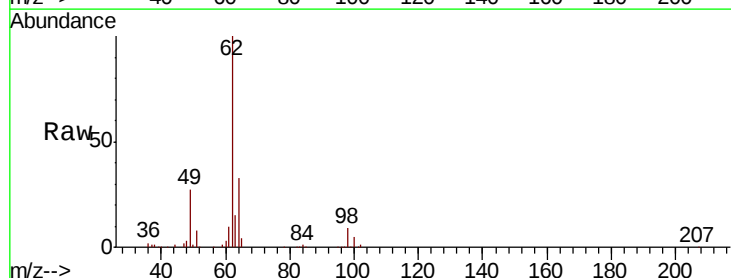
Acq: 07 Aug 2018 14:59

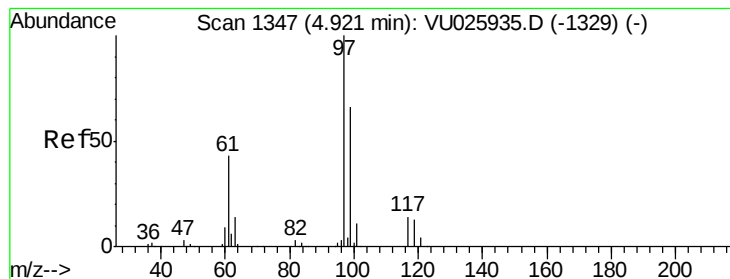
Tgt Ion: 62 Resp: 148153

Ion Ratio Lower Upper

62 100

98 8.6 6.5 9.7





#30

1,1,1-Trichloroethane

Concen: 20.12 ug/L

RT: 4.91 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VU025940.D

Acq: 07 Aug 2018 14:59

Instrument :

MSVOA_U

ClientSampled :

A4ZD6

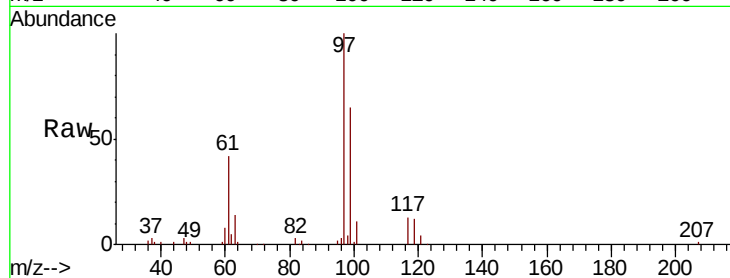
Tot Ion: 97 Resp: 80666

Ion Ratio Lower Upper

97 100

99 64.0 52.4 78.6

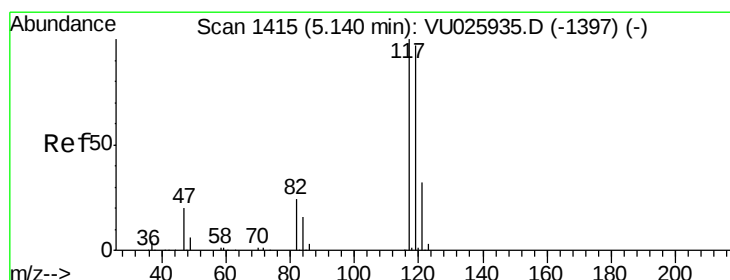
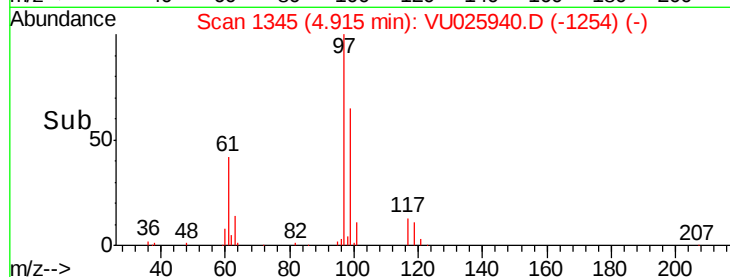
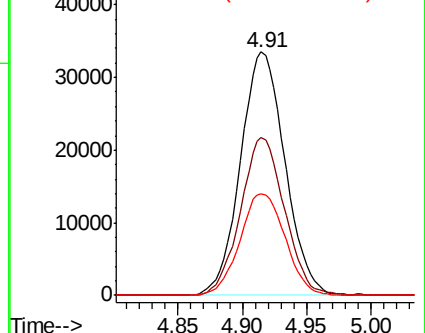
61 42.3 34.6 52.0



Abundance Ion 97.00 (96.70 to 97.70): VU025940.D (-1254) (-)

Ion 99.00 (98.70 to 99.70): VU025940.D (-1254) (-)

Ion 61.05 (60.75 to 61.75): VU025940.D (-1254) (-)



#31

Carbon tetrachloride

Concen: 42.70 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU025940.D

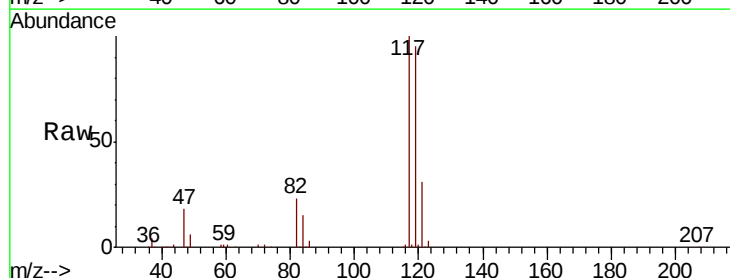
Acq: 07 Aug 2018 14:59

Tgt Ion: 117 Resp: 153098

Ion Ratio Lower Upper

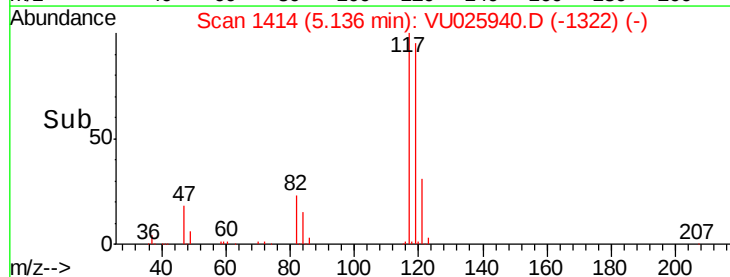
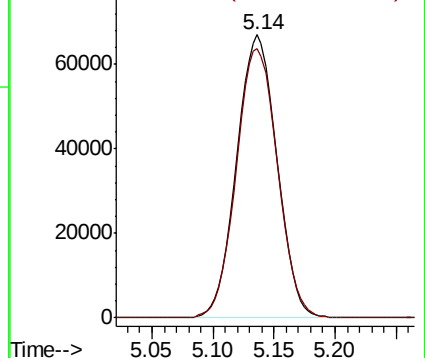
117 100

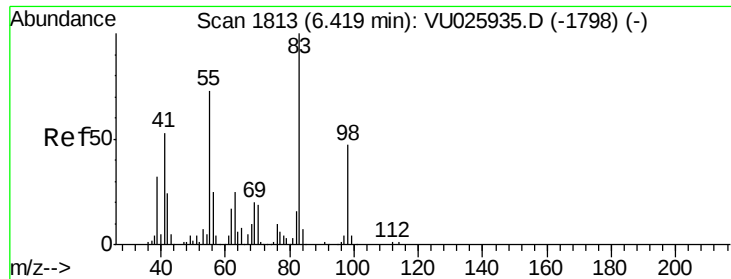
119 97.5 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): VU025940.D (-1322) (-)

Ion 119.00 (118.70 to 119.70): VU025940.D (-1322) (-)

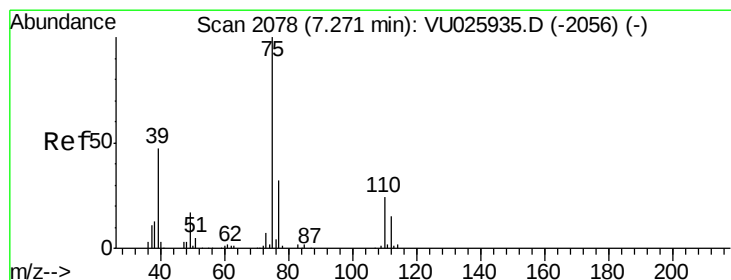
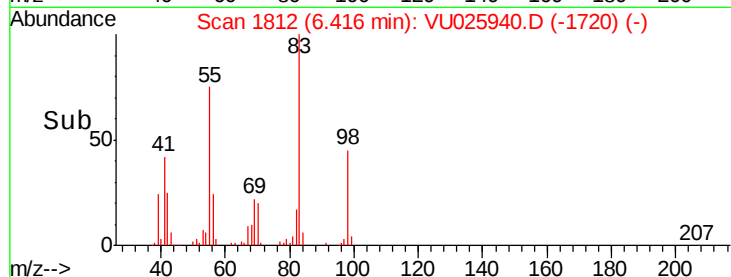
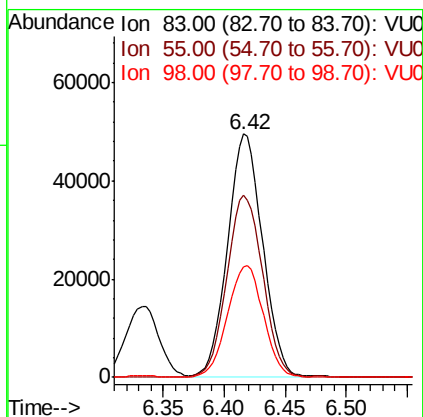
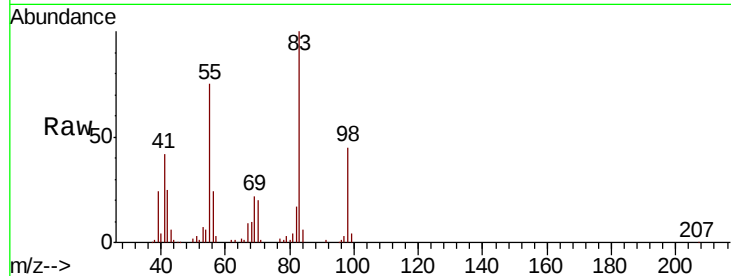




#35
Methvlcvclohexane
Concen: 25.72 ug/L
RT: 6.42 min Scan# 1812
Delta R.T. -0.00 min
Lab File: VU025940.D
Acq: 07 Aug 2018 14:59

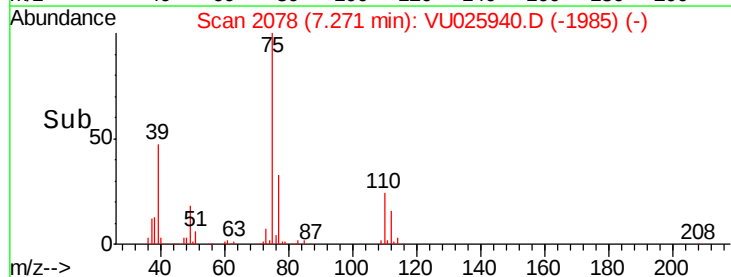
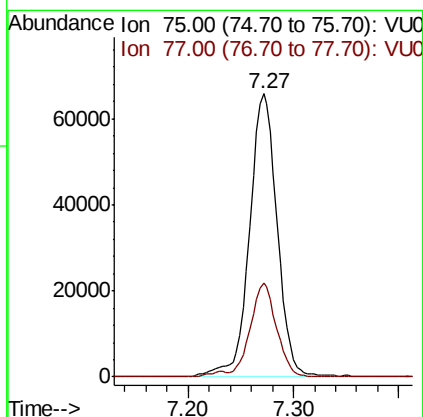
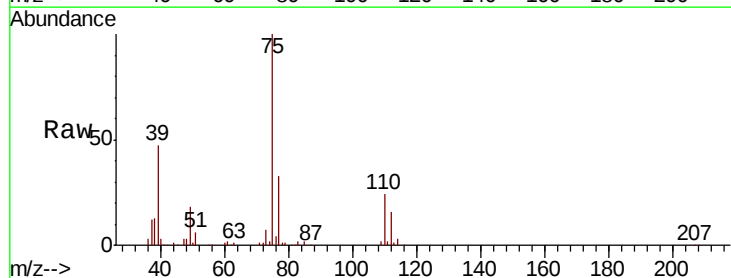
Instrument :
MSVOA_U
ClientSampleId :
A4ZD6

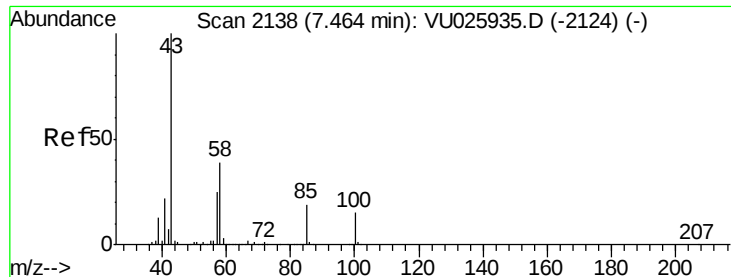
Tot Ion: 83 Resp: 99743
Ion Ratio Lower Upper
83 100
55 76.1 61.1 91.7
98 46.6 38.6 57.8



#39
cis-1,3-Dichloropropene
Concen: 30.12 ug/L
RT: 7.27 min Scan# 2078
Delta R.T. -0.00 min
Lab File: VU025940.D
Acq: 07 Aug 2018 14:59

Tgt Ion: 75 Resp: 120681
Ion Ratio Lower Upper
75 100
77 33.1 22.0 41.0

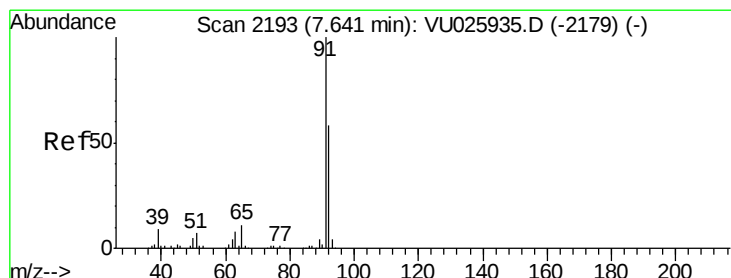
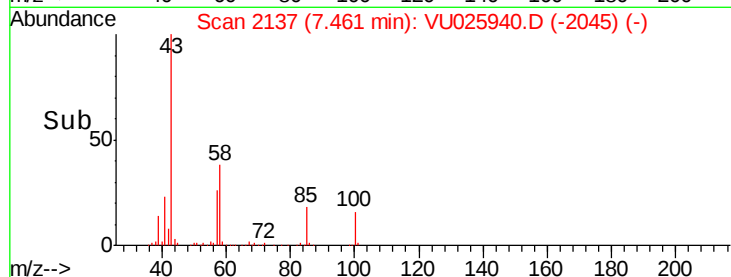
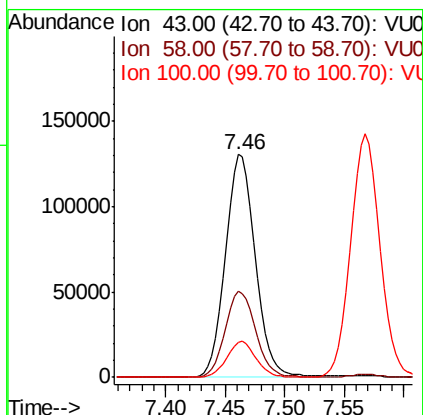
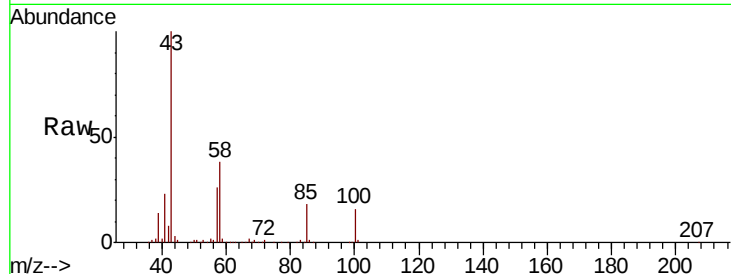




#40
4-Methyl-2-pentanone
Concen: 68.19 ug/L
RT: 7.46 min Scan# 2137
Delta R.T. -0.00 min
Lab File: VU025940.D
Acq: 07 Aug 2018 14:59

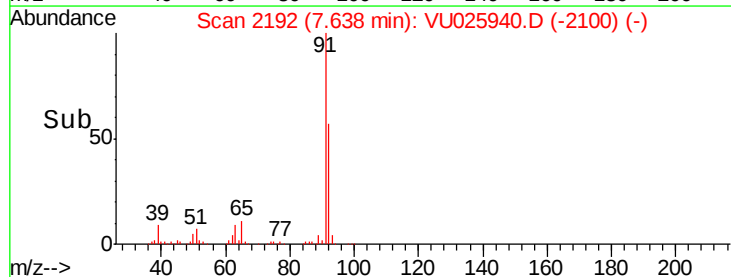
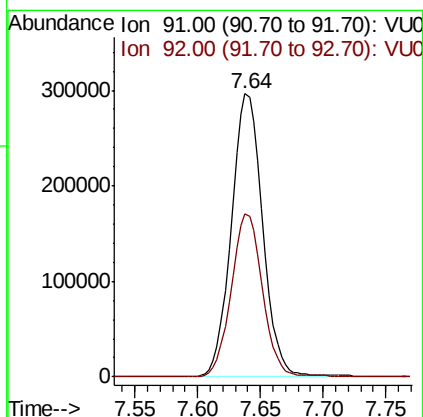
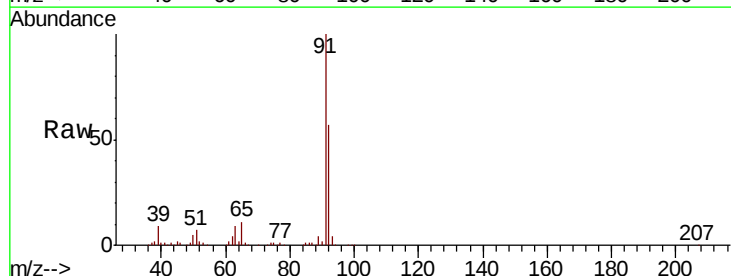
Instrument :
MSVOA_U
ClientSampleId :
A4ZD6

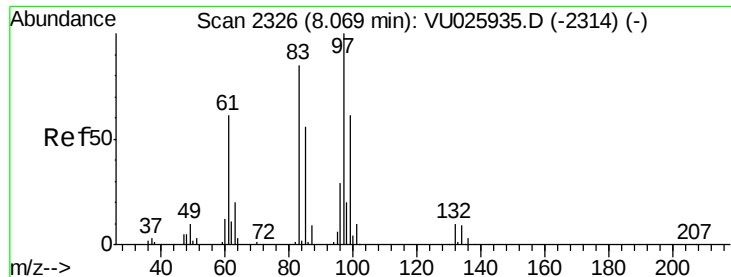
Tot Ion	Ratio	Lower	Upper
43	100		
58	39.1	30.8	46.2
100	15.6	12.1	18.1



#42
Toluene
Concen: 51.13 ug/L
RT: 7.64 min Scan# 2192
Delta R.T. -0.00 min
Lab File: VU025940.D
Acq: 07 Aug 2018 14:59

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.4	40.0	74.2

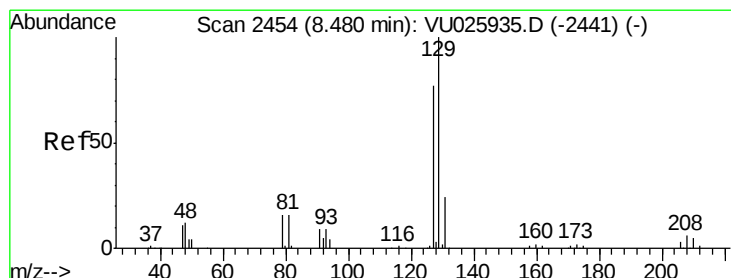
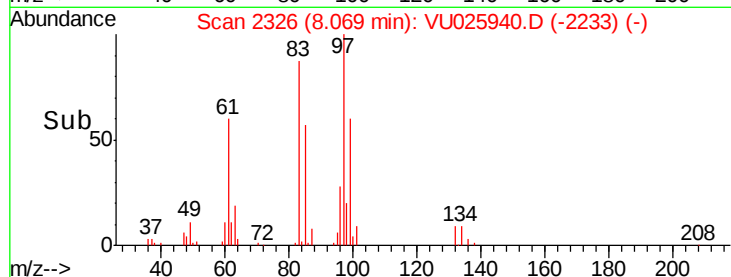
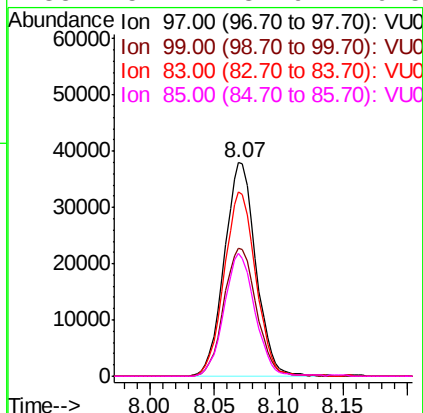
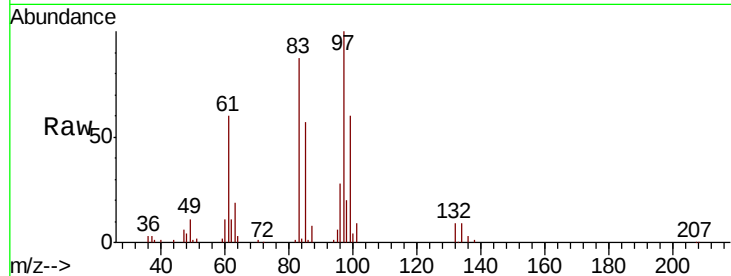




#45
 1,1,2-Trichloroethane
 Concen: 27.47 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU025940.D
 Acq: 07 Aug 2018 14:59

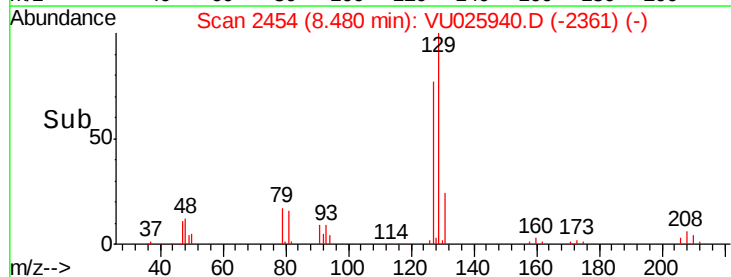
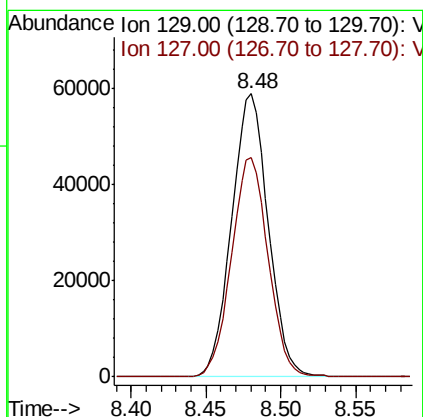
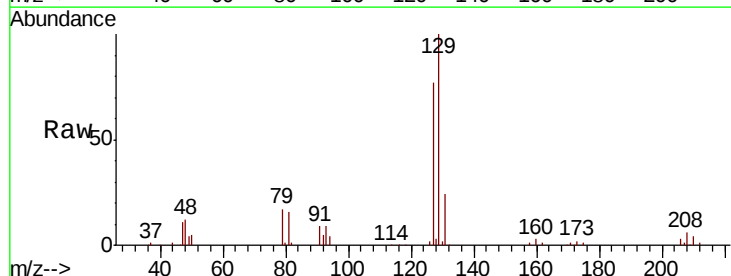
Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZD6

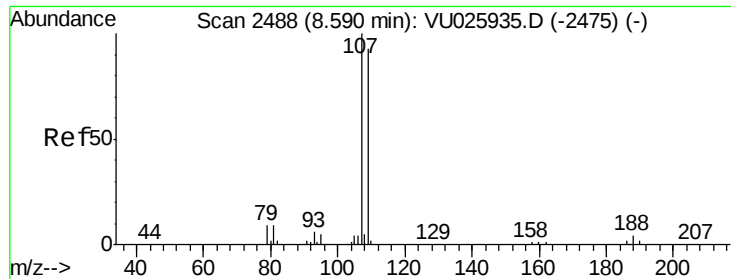
Tot Ion:	97	Resp:	64541
Ion	Ratio	Lower	Upper
97	100		
99	60.1	44.3	82.3
83	86.6	59.8	111.1
85	57.4	37.9	70.5



#49
 Dibromochloromethane
 Concen: 34.80 ug/L
 RT: 8.48 min Scan# 2454
 Delta R.T. -0.00 min
 Lab File: VU025940.D
 Acq: 07 Aug 2018 14:59

Tgt Ion:	129	Resp:	100423
Ion	Ratio	Lower	Upper
129	100		
127	77.5	53.8	100.0

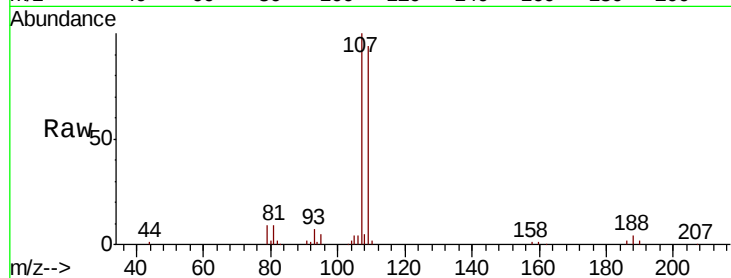




#50
 1,2-Dibromoethane
 Concen: 40.90 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU025940.D
 Acq: 07 Aug 2018 14:59

Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZD6

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.1	66.6	123.8
188	4.0	3.2	4.8

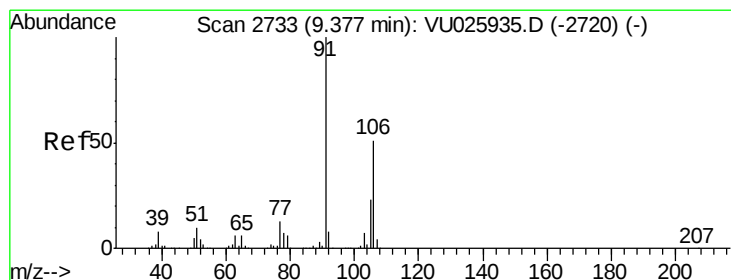
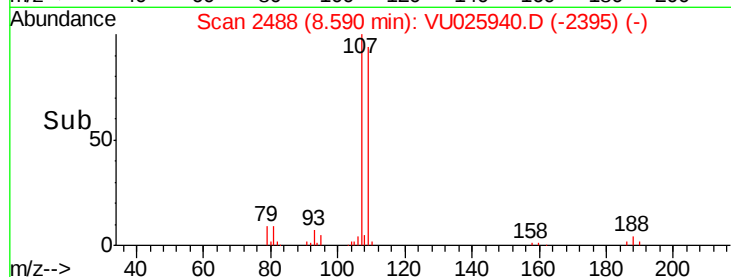
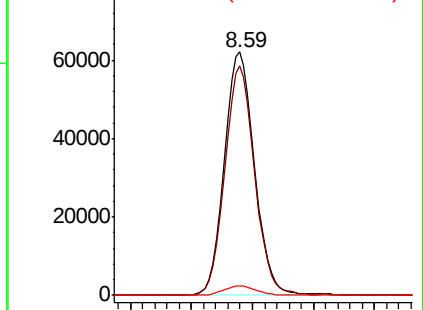


Abundance

Ion 107.00 (106.70 to 107.70): V

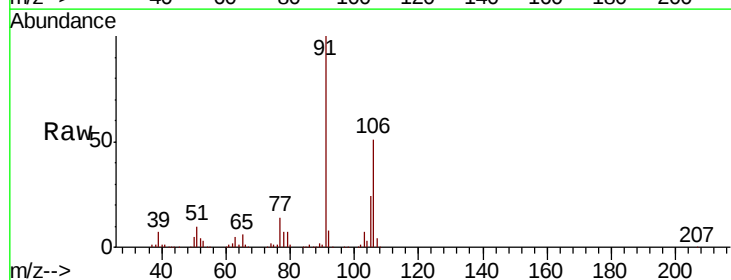
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#53
 m,p-Xylene
 Concen: 33.93 ug/L
 RT: 9.38 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VU025940.D
 Acq: 07 Aug 2018 14:59

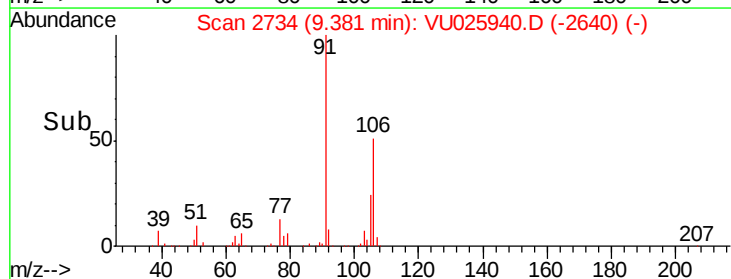
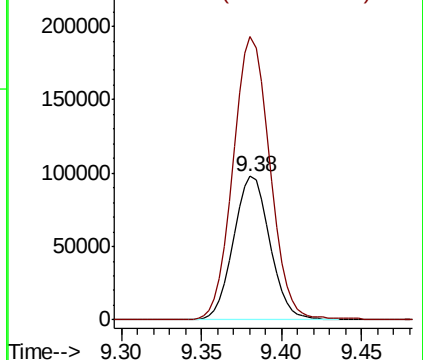
Tgt Ion	Ratio	Lower	Upper
106	100		
91	196.8	141.7	263.3

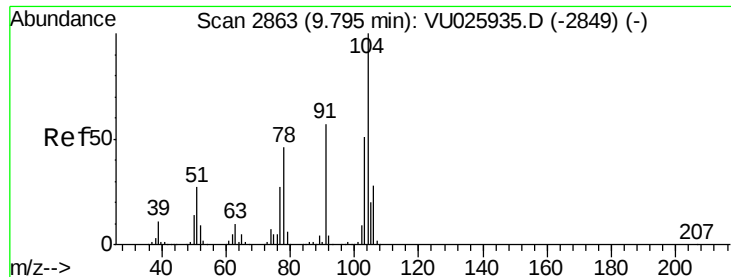


Abundance

Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

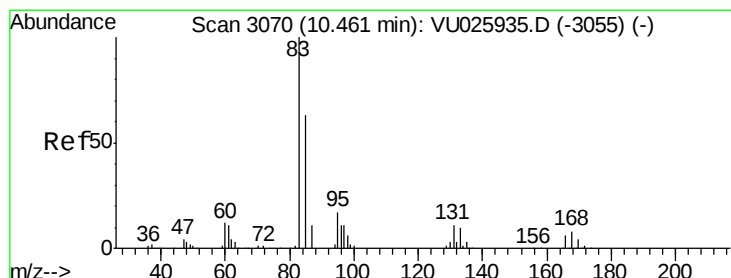
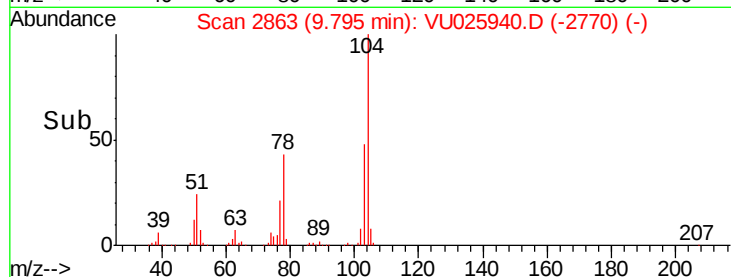
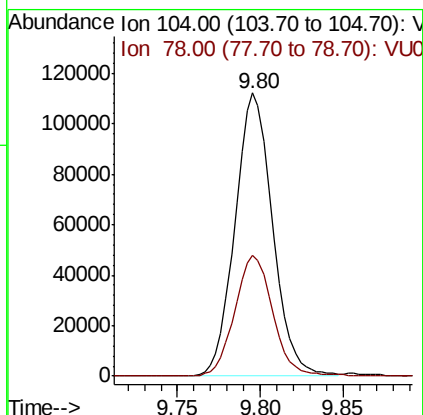
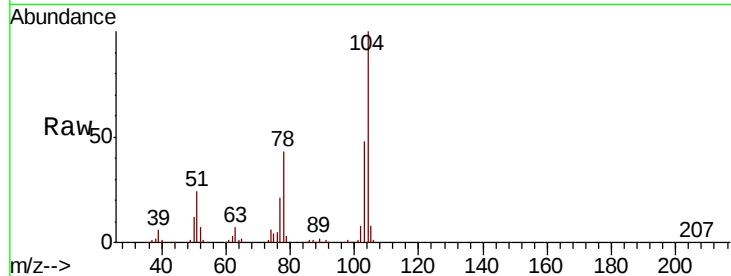




#55
Stvrene
Concen: 24.57 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU025940.D
Acq: 07 Aug 2018 14:59

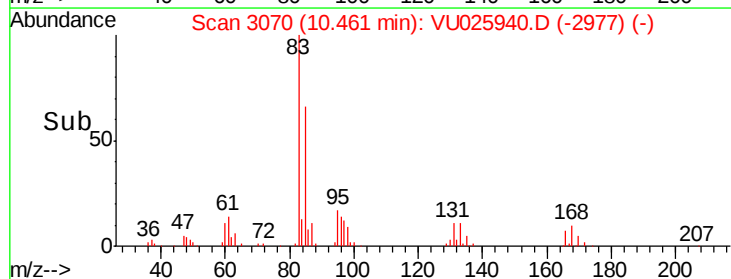
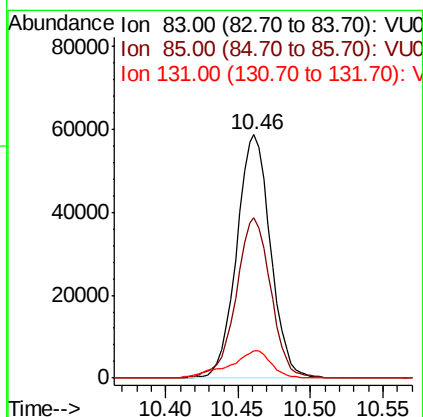
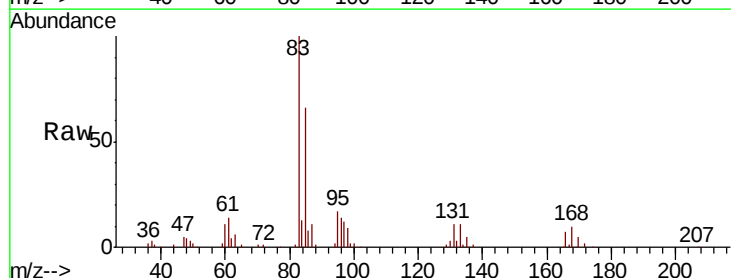
Instrument :
MSVOA_U
ClientSampleId :
A4ZD6

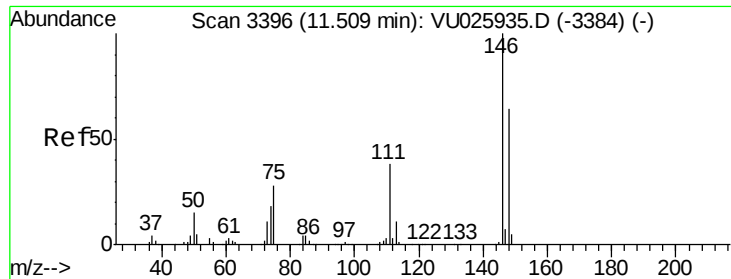
Tot Ion:104 Resp: 176759
Ion Ratio Lower Upper
104 100
78 42.5 31.8 59.0



#58
1,1,2,2-Tetrachloroethane
Concen: 24.03 ug/L
RT: 10.46 min Scan# 3070
Delta R.T. -0.00 min
Lab File: VU025940.D
Acq: 07 Aug 2018 14:59

Tgt Ion: 83 Resp: 94924
Ion Ratio Lower Upper
83 100
85 65.7 45.1 83.7
131 11.2 8.7 13.1

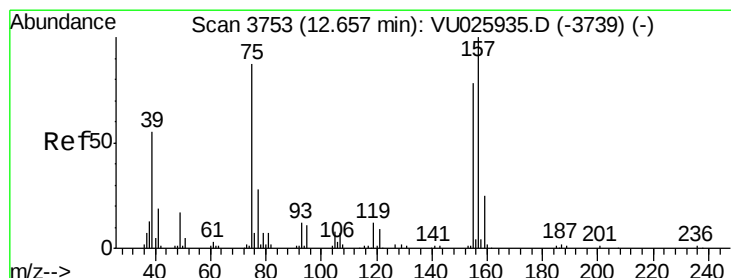
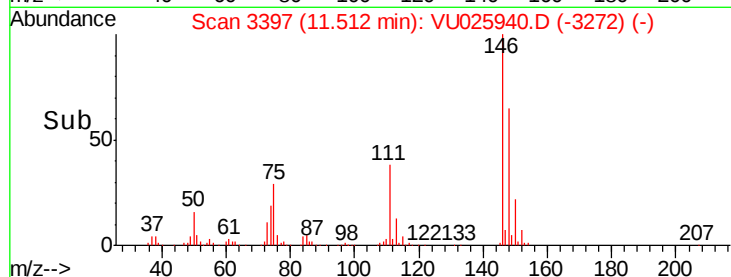
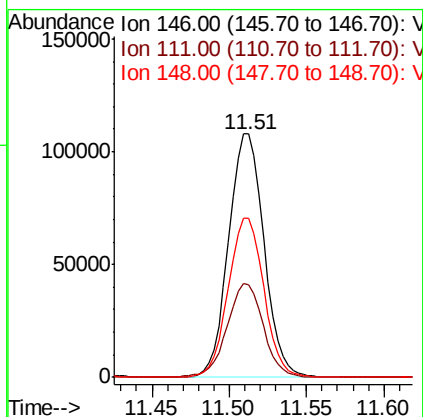
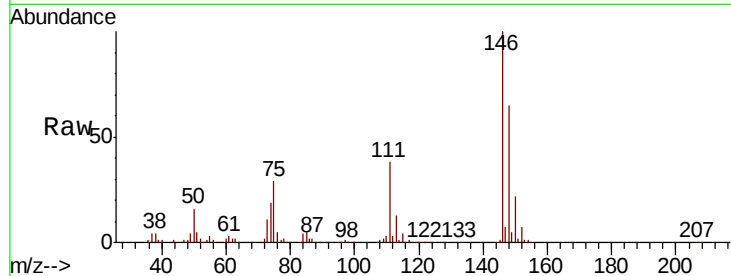




#63
 1,4-Dichlorobenzene
 Concen: 29.91 ug/L
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU025940.D
 Acq: 07 Aug 2018 14:59

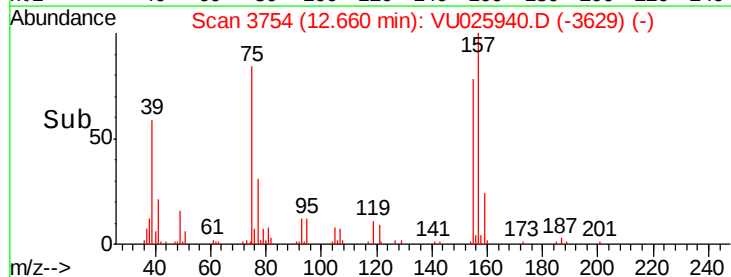
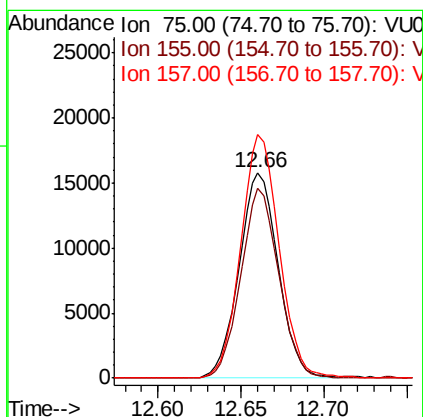
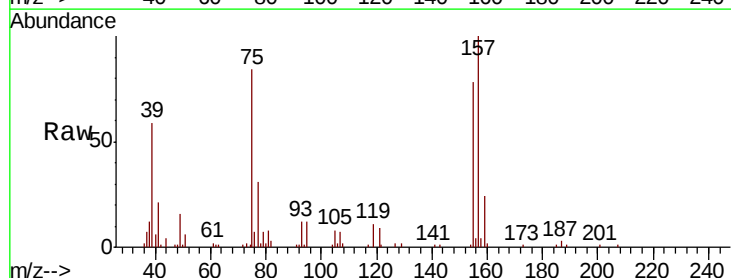
Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZD6

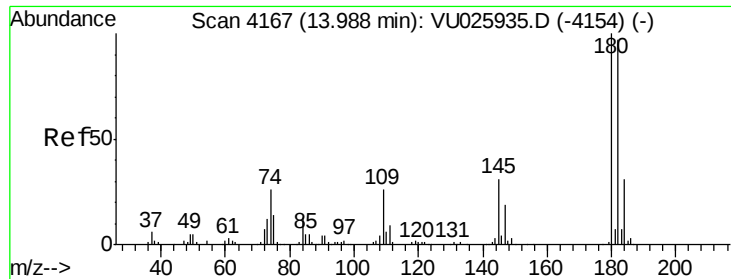
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	26.9	49.9
148	65.3	44.6	82.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 30.21 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU025940.D
 Acq: 07 Aug 2018 14:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.6	66.3	99.5
157	118.5	91.5	137.3

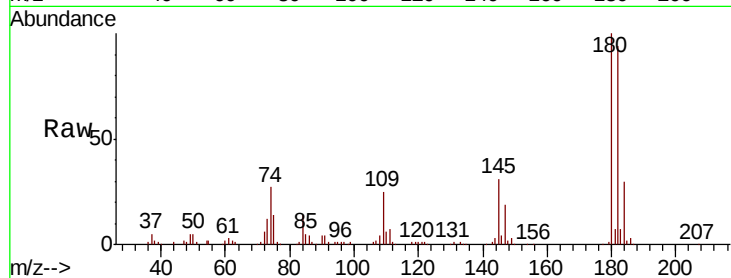




#70
 1,2,3-Trichlorobenzene
 Concen: 46.66 ug/L
 RT: 13.99 min Scan# 4168
 Delta R.T. 0.00 min
 Lab File: VU025940.D
 Acq: 07 Aug 2018 14:59

Instrument :
 MSVOA_U
 ClientSampleId :
 A4ZD6

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.6	114.8
145	30.8	25.4	38.2



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

