

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041872.D
 Acq On : 07 Jan 2021 15:05
 Operator : SY/MD
 Sample : M1026-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 08 04:59:24 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jan 08 04:58:19 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	141114	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	132021	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	55300	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	47524	4.31	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.20%
7) Chloroethane-d5	1.92	69	49559	5.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	116.00%
11) 1,1-Dichloroethene-d2	2.58	63	70371	3.46	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.20%
20) 2-Butanone-d5	4.65	46	185570	58.56	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.12%
24) Chloroform-d	5.08	84	104330	5.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	110.40%
26) 1,2-Dichloroethane-d4	5.72	65	60873	5.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	113.60%
32) Benzene-d6	5.74	84	201056	5.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.40%
36) 1,2-Dichloropropane-d6	6.70	67	68156	5.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	115.00%
41) Toluene-d8	7.90	98	157621	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.40%
43) trans-1,3-Dichloropropene-	8.19	79	24140	4.53	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.60%
46) 2-Hexanone-d5	8.64	63	140566	48.25	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.50%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	56626	5.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	55872	5.68	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	2185	0.183	ug/L	100
3) Chloromethane	1.52	50	605	0.052	ug/L	92
9) Trichlorofluoromethane	2.15	101	53392	3.289	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	2113	0.218	ug/L #	67
12) 1,1-Dichloroethene	2.59	96	1336	0.140	ug/L #	1
13) Acetone	2.66	43	2176	1.080	ug/L	95
16) Methylene chloride	3.06	84	1801	0.158	ug/L	88
17) Methyl tert-butyl Ether	3.38	73	16583	0.649	ug/L	96
18) trans-1,2-Dichloroethene	3.37	96	6740	0.681	ug/L	93
19) 1,1-Dichloroethane	3.88	63	4101	0.222	ug/L	97
22) cis-1,2-Dichloroethene	4.68	96	25080	2.292	ug/L	91
25) Chloroform	5.11	83	3665	0.197	ug/L	97
29) 1,1,1-Trichloroethane	5.33	97	3556	0.235	ug/L	96
34) Trichloroethene	6.55	95	117779	11.101	ug/L	97
35) Methylcyclohexane	6.70	83	15636	0.912	ug/L #	19
37) 1,2-Dichloropropane	6.70	63	6860	0.635	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1409	0.088	ug/L #	36

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jan 08 04:58:19 2021
Response via : Initial Calibration

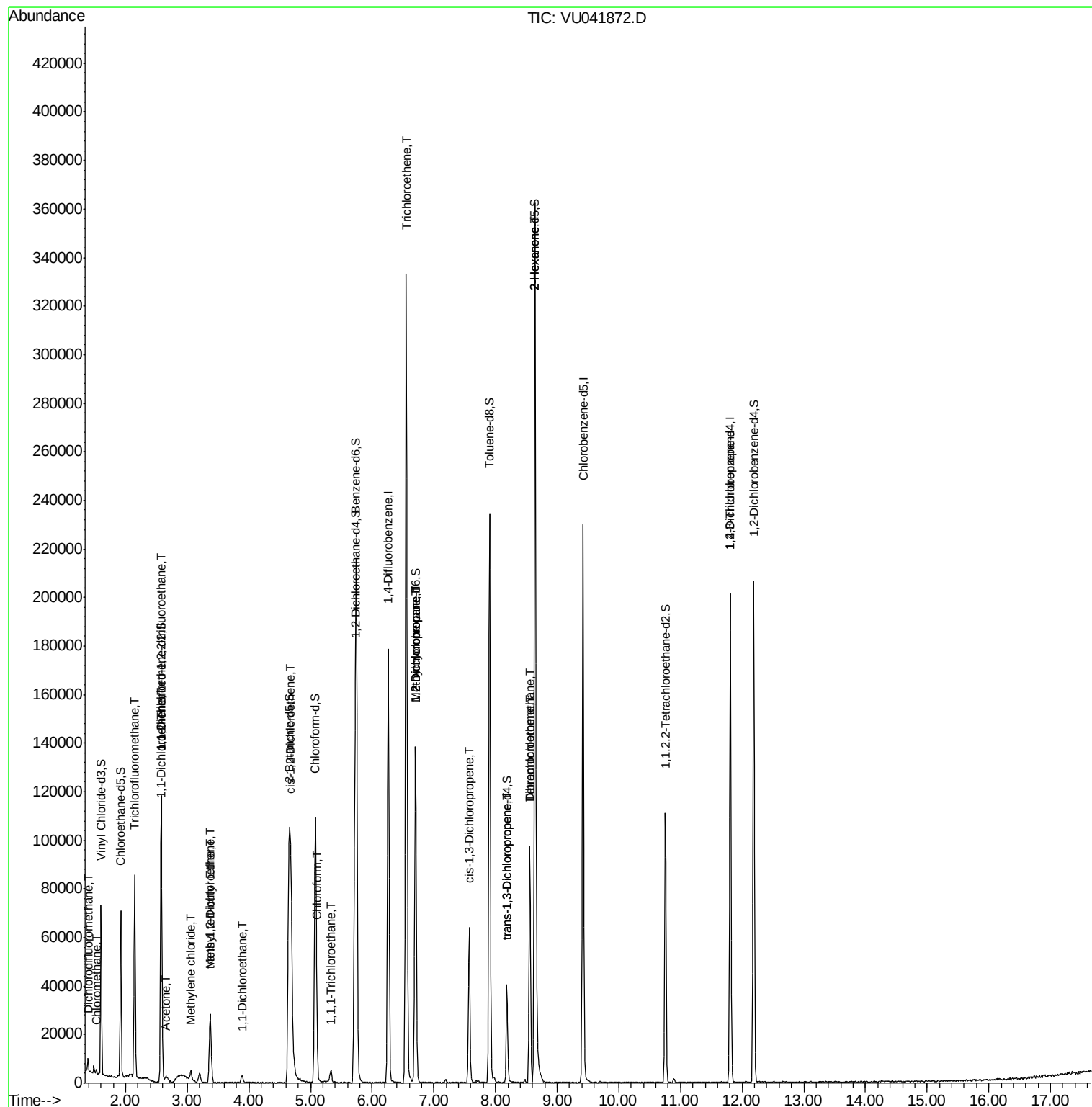
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	8.19	75	936	0.065	ug/L #	82
47) Tetrachloroethene	8.56	164	21693	2.921	ug/L	96
48) 2-Hexanone	8.64	43	15504	2.772	ug/L #	67
49) Dibromochloromethane	8.56	129	21271	2.319	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6240	0.769	ug/L	98

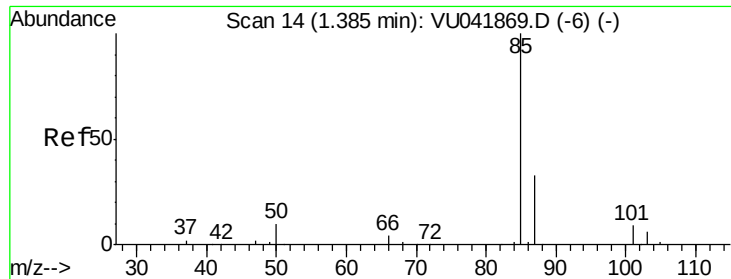
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.183 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041872.D

Acq: 07 Jan 2021 15:05

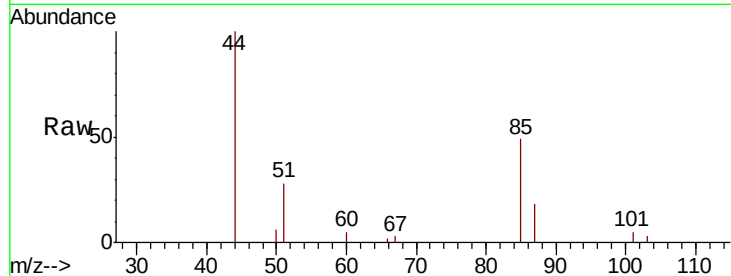
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 2185

Ion Ratio Lower Upper

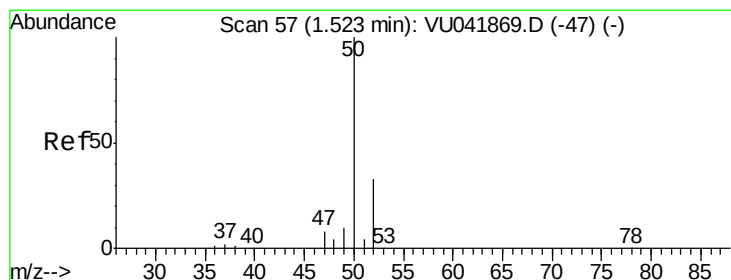
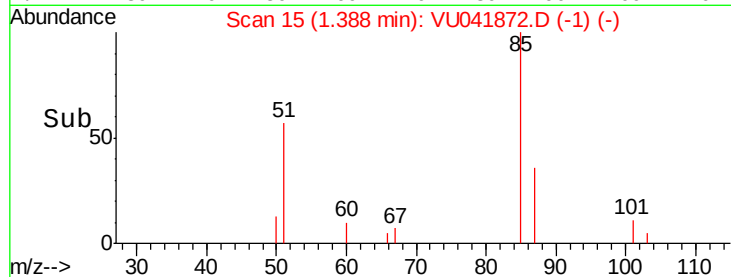
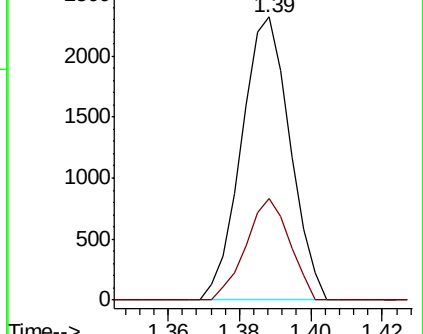
85 100

87 32.3 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.052 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041872.D

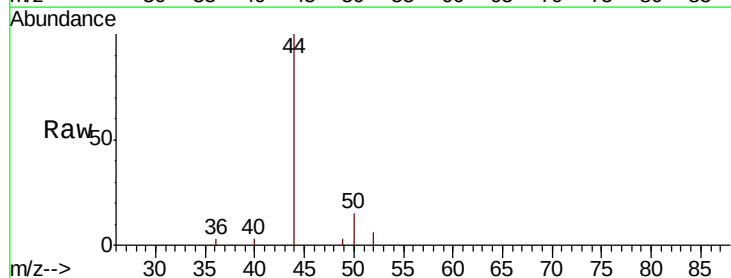
Acq: 07 Jan 2021 15:05

Tgt Ion: 50 Resp: 605

Ion Ratio Lower Upper

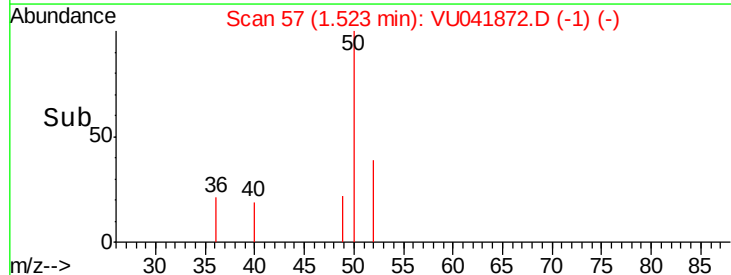
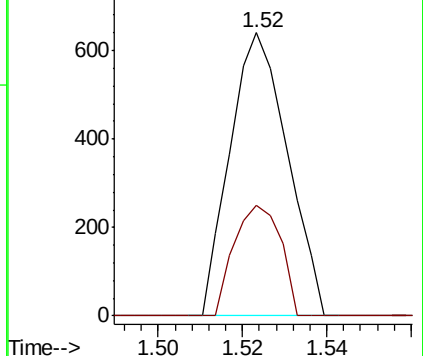
50 100

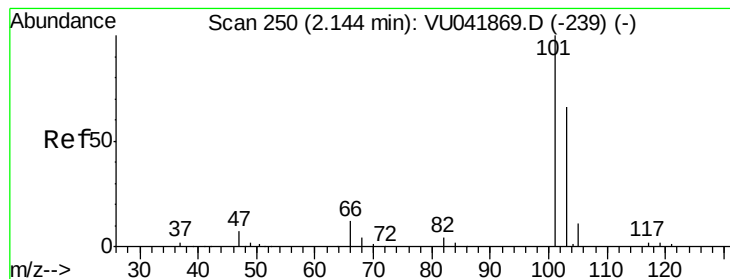
52 39.2 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



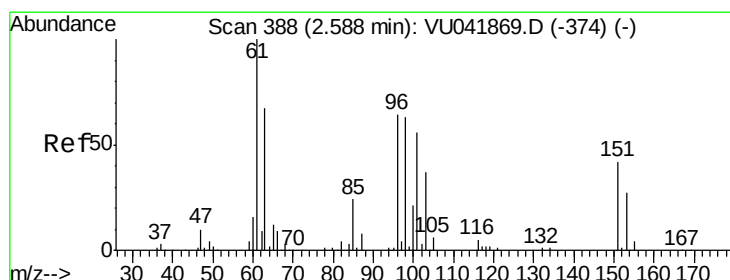
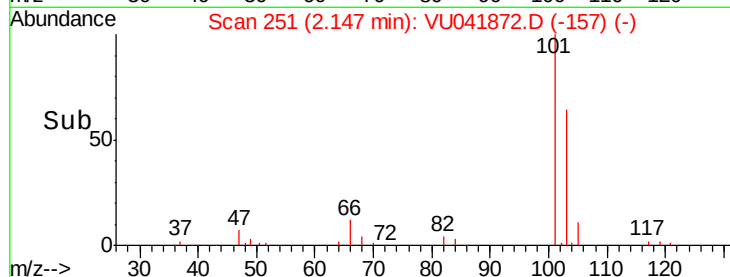
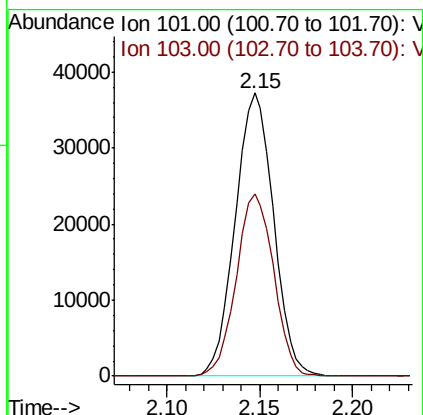
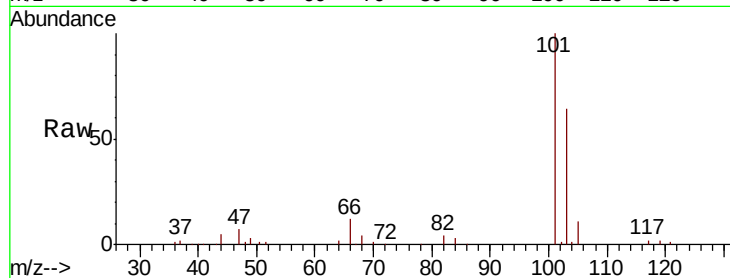


#9

Trichlorofluoromethane
Concen: 3.289 ug/L
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU041872.D
Acq: 07 Jan 2021 15:05

Instrument :
MSVOA_U
ClientSampleId :

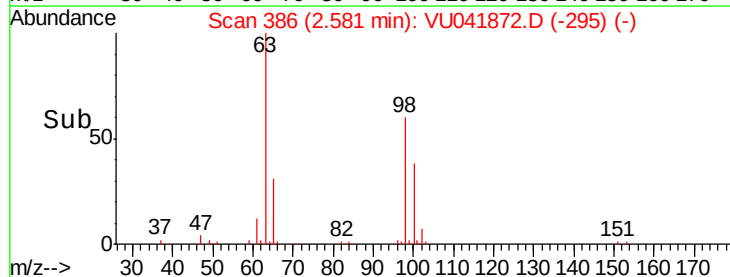
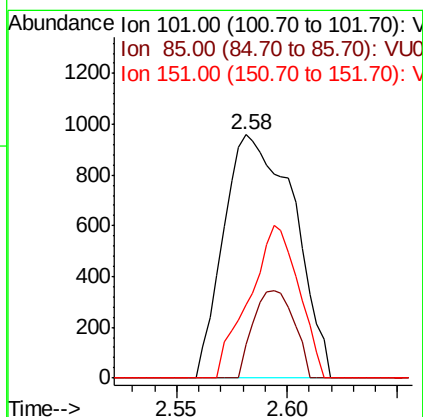
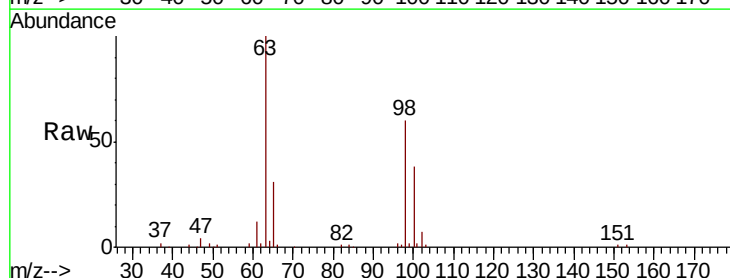
Tot Ion:101 Resp: 53392
Ion Ratio Lower Upper
101 100
103 62.9 51.1 76.7

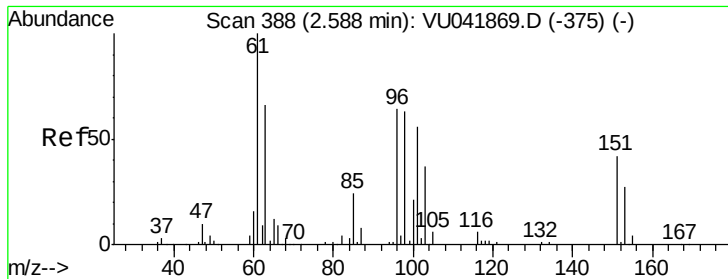


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.218 ug/L
RT: 2.58 min Scan# 386
Delta R.T. -0.01 min
Lab File: VU041872.D
Acq: 07 Jan 2021 15:05

Tgt Ion:101 Resp: 2113
Ion Ratio Lower Upper
101 100
85 20.9 33.6 50.4#
151 44.0 56.2 84.4#

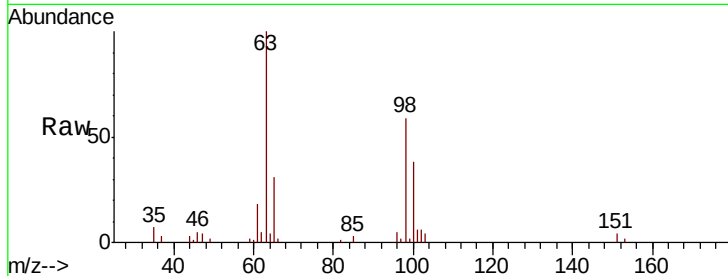




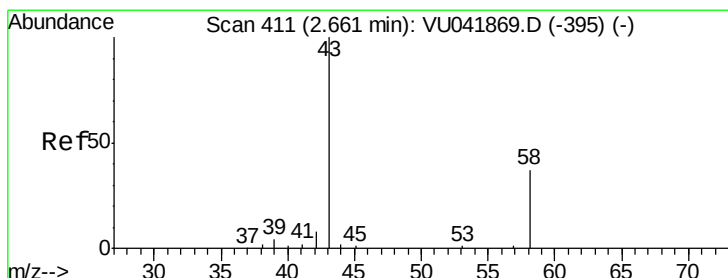
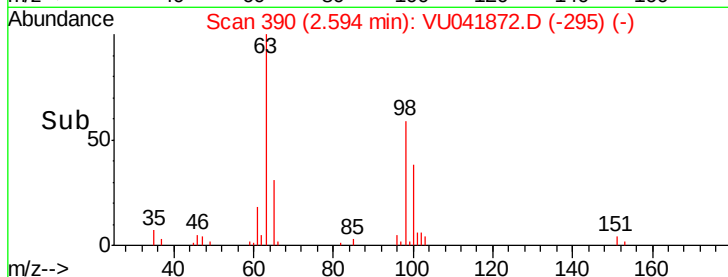
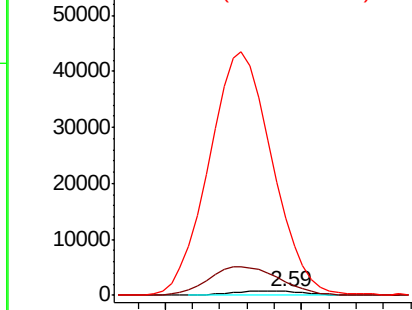
#12
 1,1-Dichloroethene
 Concen: 0.140 ug/L
 RT: 2.59 min Scan# 390
 Delta R.T. 0.01 min
 Lab File: VU041872.D
 Acq: 07 Jan 2021 15:05

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 1336
 Ion Ratio Lower Upper
 96 100
 61 345.8 123.8 230.0#
 63 1947.0 81.0 150.4#

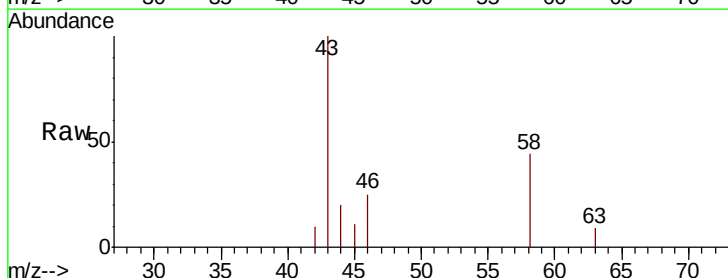


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 63.00 (62.70 to 63.70): VU0

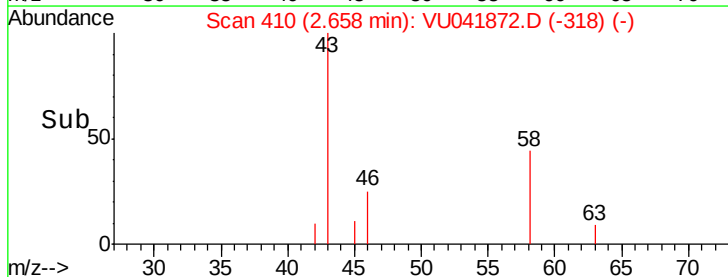
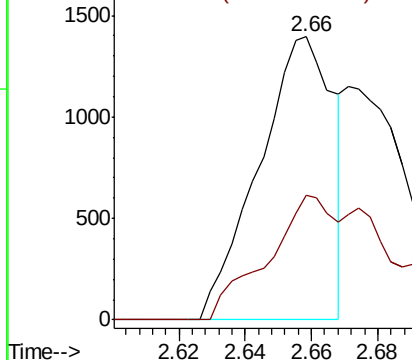


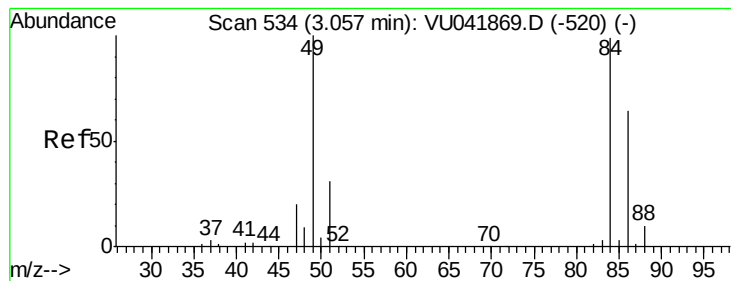
#13
 Acetone
 Concen: 1.080 ug/L
 RT: 2.66 min Scan# 410
 Delta R.T. -0.00 min
 Lab File: VU041872.D
 Acq: 07 Jan 2021 15:05

Tgt Ion: 43 Resp: 2176
 Ion Ratio Lower Upper
 43 100
 58 39.8 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 58.05 (57.75 to 58.75): VU0





#16

Methylene chloride

Concen: 0.158 ug/L

RT: 3.06 min Scan# 534

Delta R.T. 0.00 min

Lab File: VU041872.D

Acq: 07 Jan 2021 15:05

Instrument :

MSVOA_U

ClientSampleId :

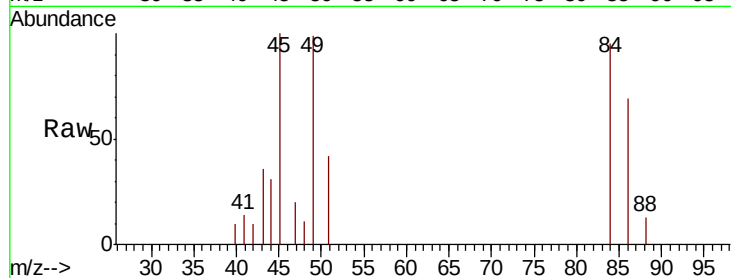
Tot Ion: 84 Resp: 1801

Ion Ratio Lower Upper

84 100

86 73.0 45.1 83.7

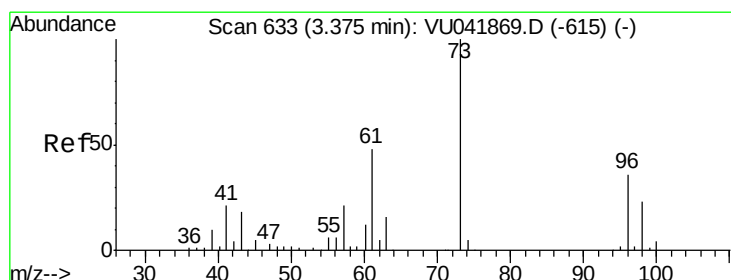
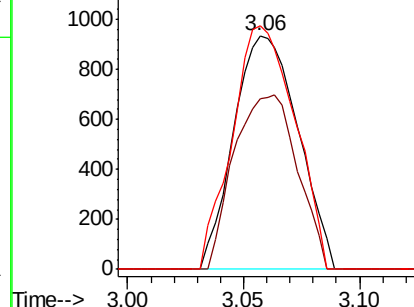
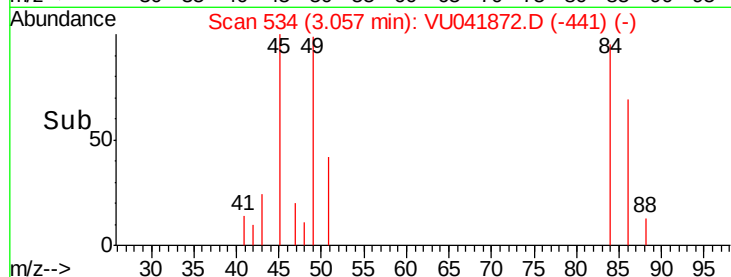
49 104.1 83.1 154.3



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



#17

Methyl tert-butyl Ether

Concen: 0.649 ug/L

RT: 3.38 min Scan# 633

Delta R.T. 0.00 min

Lab File: VU041872.D

Acq: 07 Jan 2021 15:05

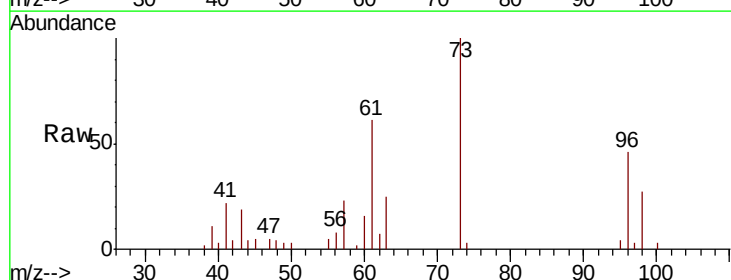
Tgt Ion: 73 Resp: 16583

Ion Ratio Lower Upper

73 100

43 19.9 14.7 22.1

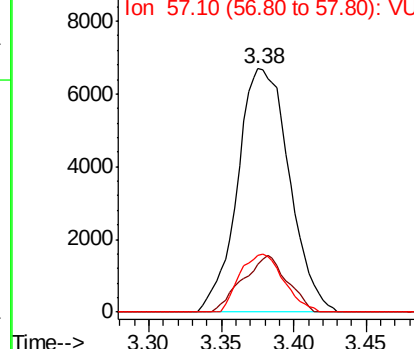
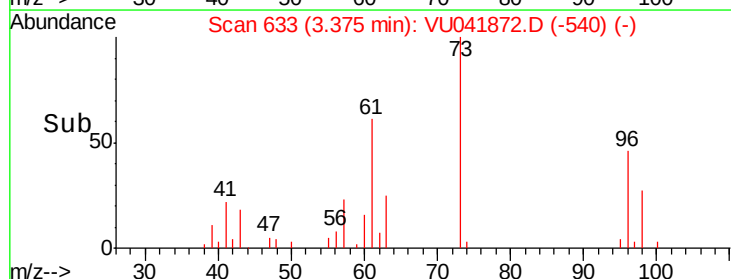
57 20.2 18.2 27.4

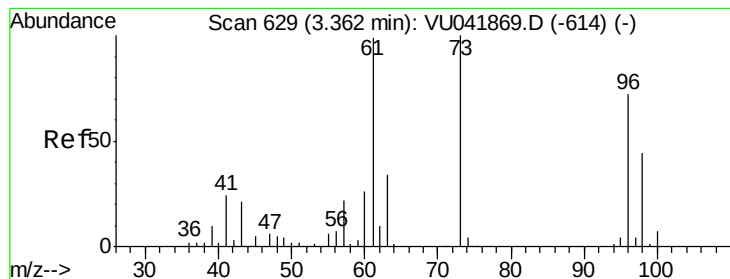


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 0.681 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.01 min

Lab File: VU041872.D

Acq: 07 Jan 2021 15:05

Instrument :

MSVOA_U

ClientSampleId :

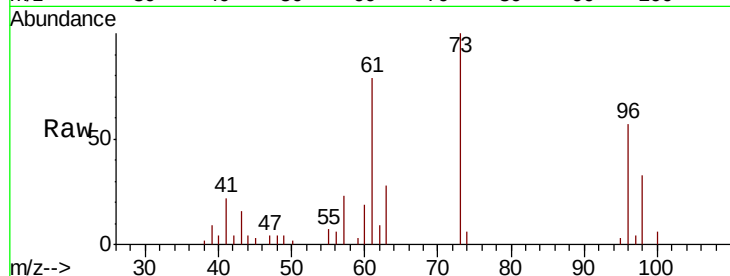
Tot Ion: 96 Resp: 6740

Ion Ratio Lower Upper

96 100

61 137.7 101.8 189.0

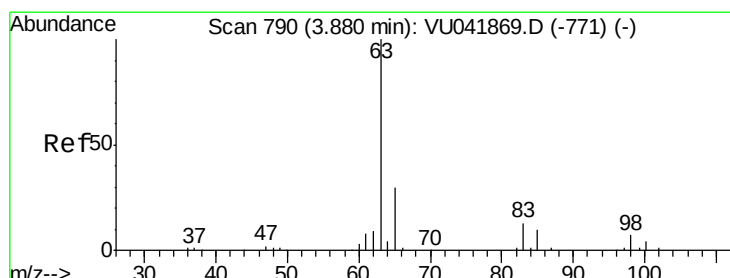
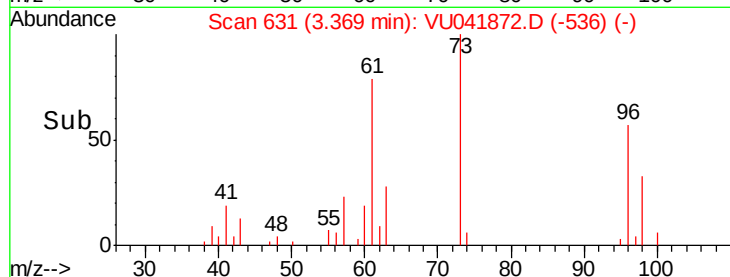
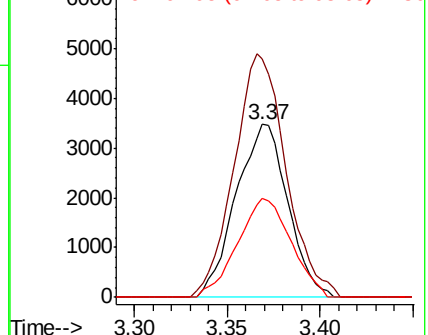
98 57.0 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VU041869.D (-614) (-)

Ion 61.05 (60.75 to 61.75): VU041869.D (-614) (-)

Ion 97.95 (97.65 to 98.65): VU041869.D (-614) (-)



#19

1,1-Dichloroethane

Concen: 0.222 ug/L

RT: 3.88 min Scan# 791

Delta R.T. 0.00 min

Lab File: VU041872.D

Acq: 07 Jan 2021 15:05

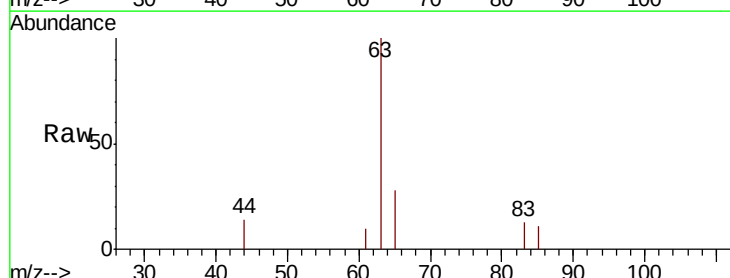
Tgt Ion: 63 Resp: 4101

Ion Ratio Lower Upper

63 100

65 28.1 21.3 39.6

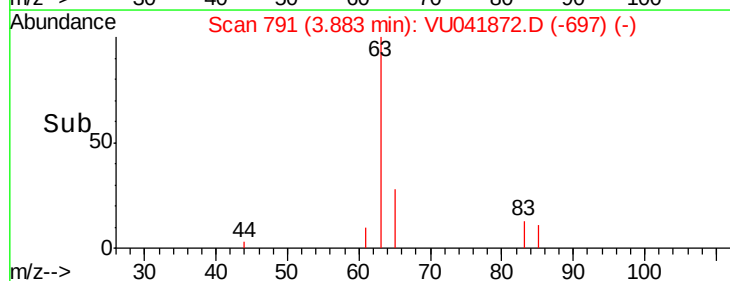
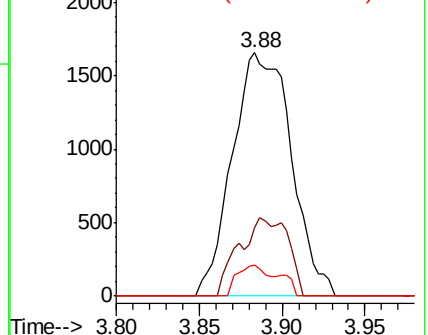
83 12.9 9.3 17.3

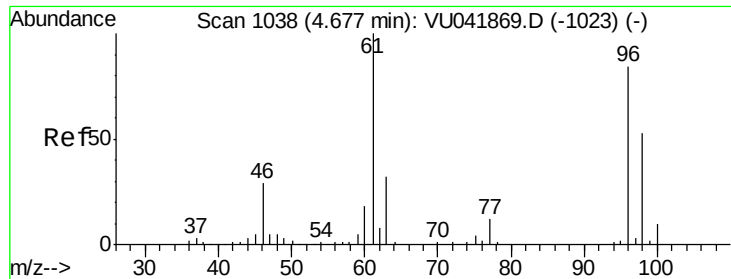


Abundance Ion 63.10 (62.80 to 63.80): VU041869.D (-771) (-)

Ion 65.10 (64.80 to 65.80): VU041869.D (-771) (-)

Ion 83.05 (82.75 to 83.75): VU041869.D (-771) (-)





#22

cis-1,2-Dichloroethene

Concen: 2.292 ug/L

RT: 4.68 min Scan# 1039

Delta R.T. 0.00 min

Lab File: VU041872.D

Acq: 07 Jan 2021 15:05

Instrument :

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ClientSampleId :

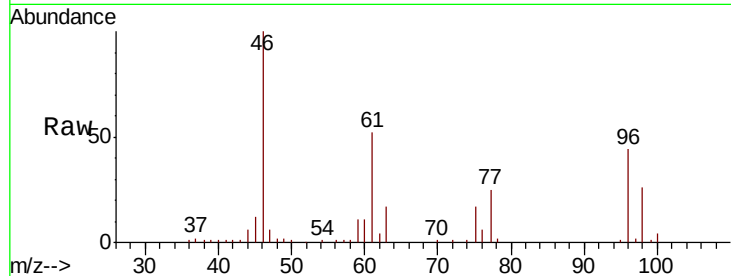
Tot Ion: 96 Resp: 25080

Ion Ratio Lower Upper

96 100

61 116.9 88.8 165.0

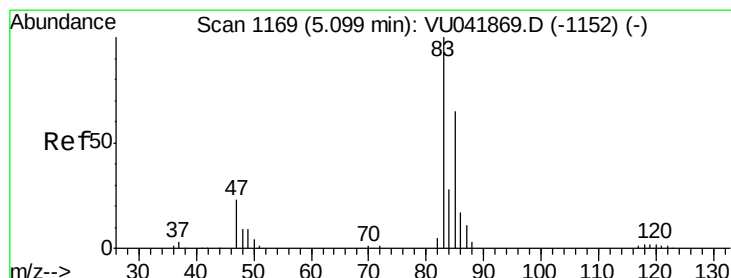
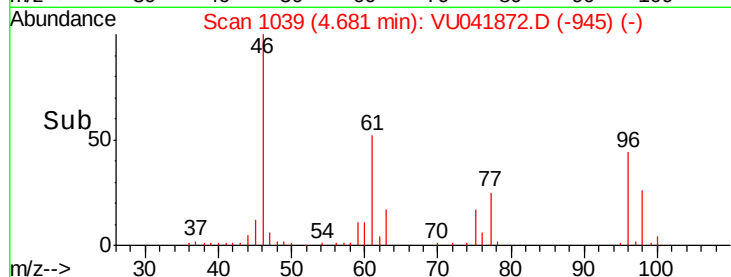
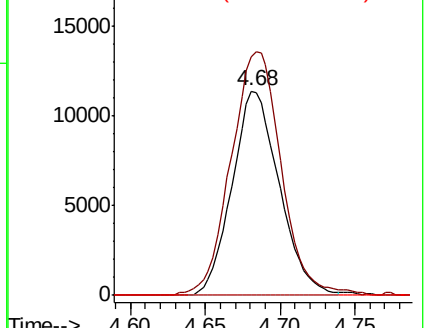
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#25

Chloroform

Concen: 0.197 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VU041872.D

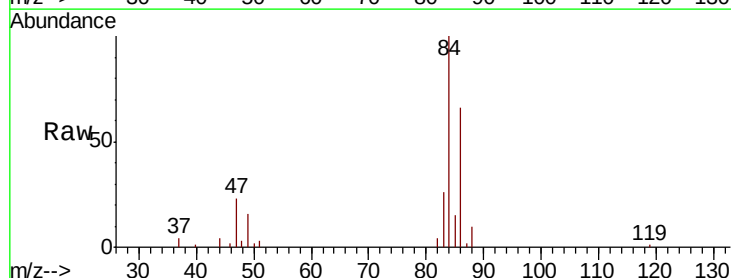
Acq: 07 Jan 2021 15:05

Tgt Ion: 83 Resp: 3665

Ion Ratio Lower Upper

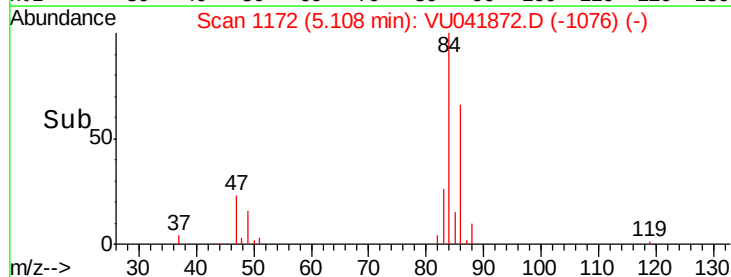
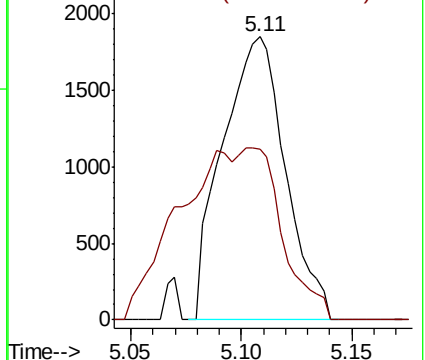
83 100

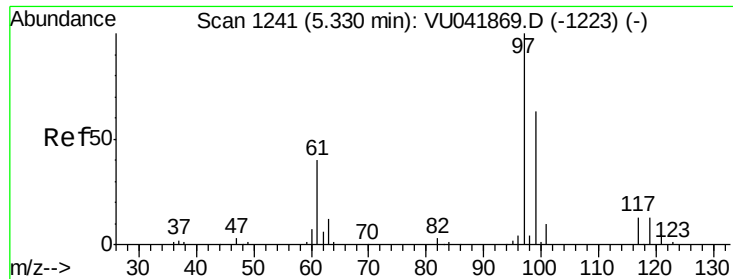
85 60.6 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

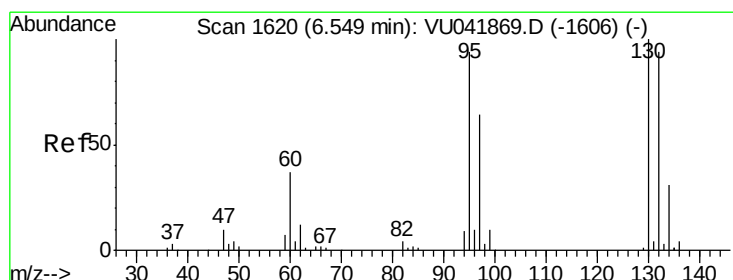
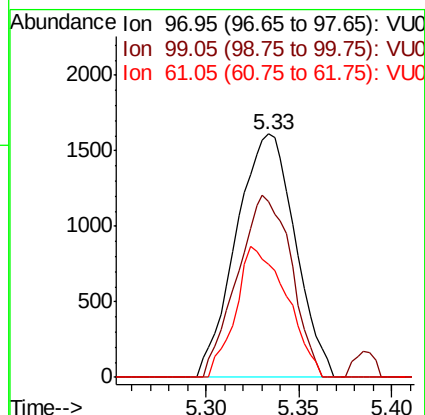
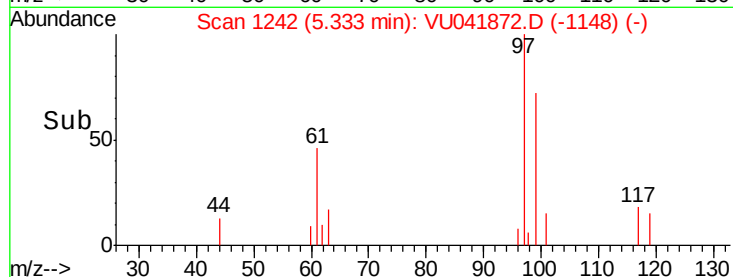
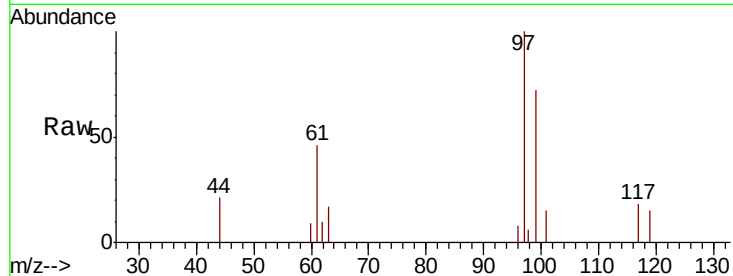




#29
1,1,1-Trichloroethane
Concen: 0.235 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VU041872.D
Acq: 07 Jan 2021 15:05

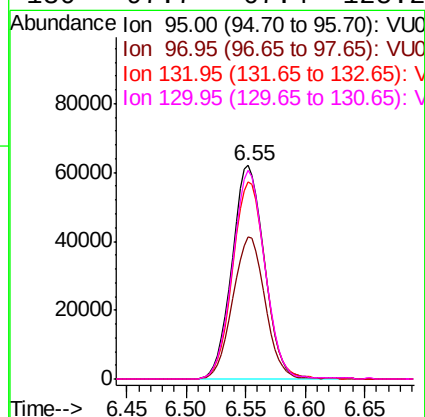
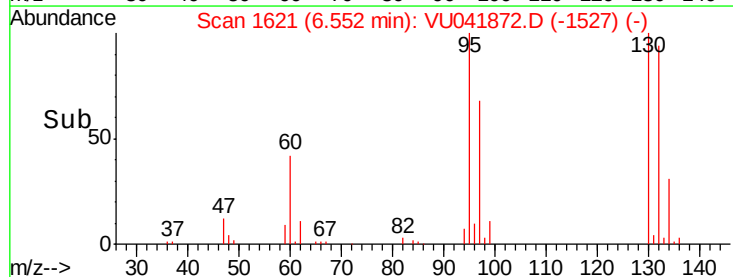
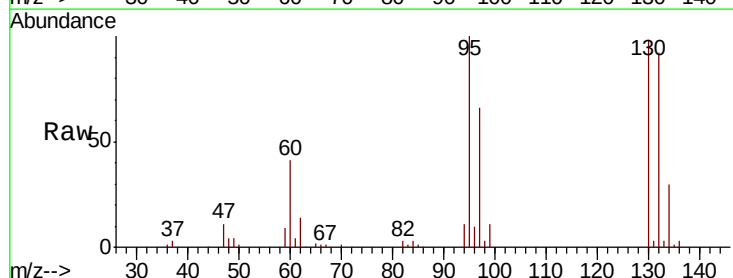
Instrument :
MSVOA_U
ClientSampleId :

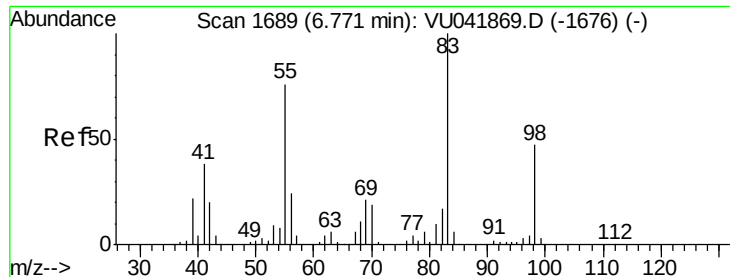
Tot Ion: 97 Resp: 3556
Ion Ratio Lower Upper
97 100
99 68.3 51.3 76.9
61 46.4 36.5 54.7



#34
Trichloroethene
Concen: 11.101 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VU041872.D
Acq: 07 Jan 2021 15:05

Tgt Ion: 95 Resp: 117779
Ion Ratio Lower Upper
95 100
97 66.5 43.9 81.5
132 92.2 63.1 117.3
130 97.7 67.4 125.2

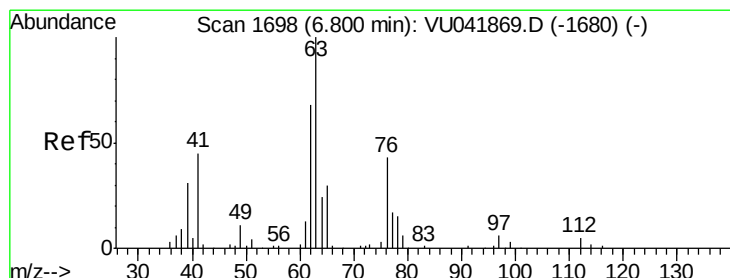
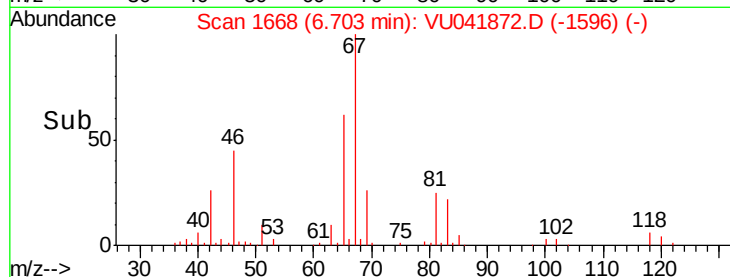
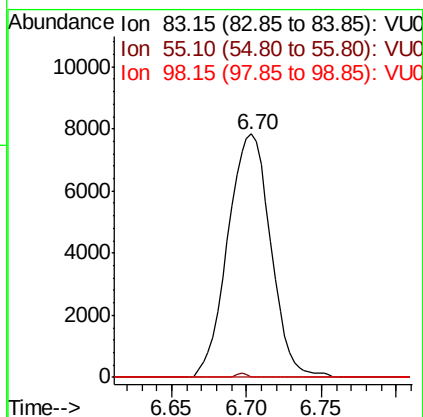
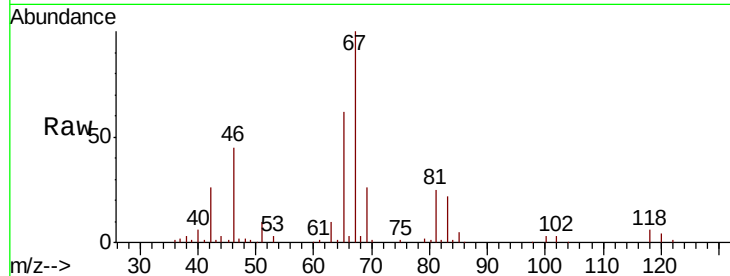




#35
Methylvlcyclohexane
Concen: 0.912 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041872.D
Acq: 07 Jan 2021 15:05

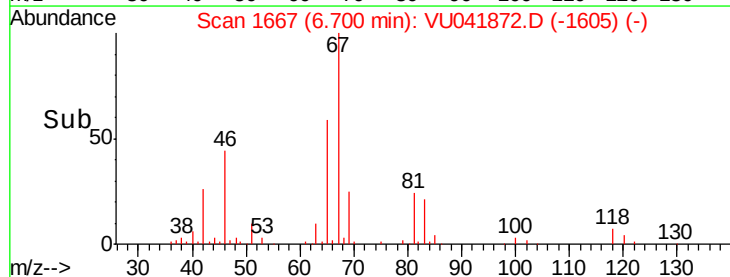
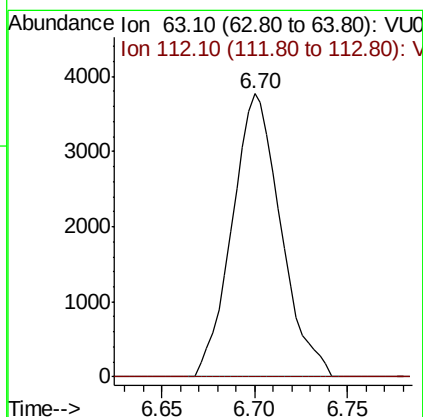
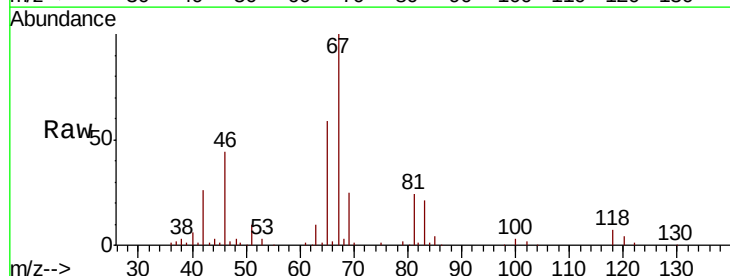
Instrument :
MSVOA_U
ClientSampleId :

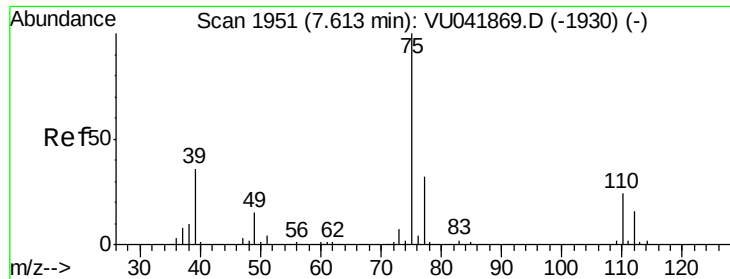
Tot Ion: 83 Resp: 15636
Ion Ratio Lower Upper
83 100
55 0.4 61.2 91.8#
98 0.0 36.6 54.8#



#37
1,2-Dichloropropane
Concen: 0.635 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041872.D
Acq: 07 Jan 2021 15:05

Tgt Ion: 63 Resp: 6860
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#

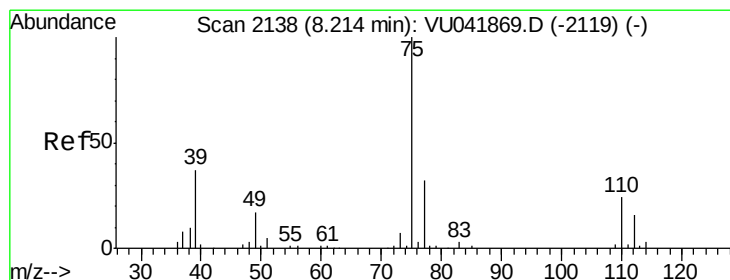
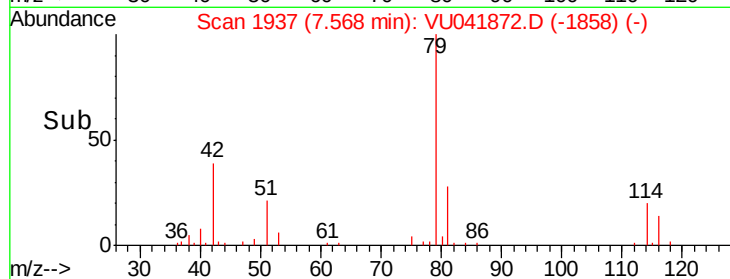
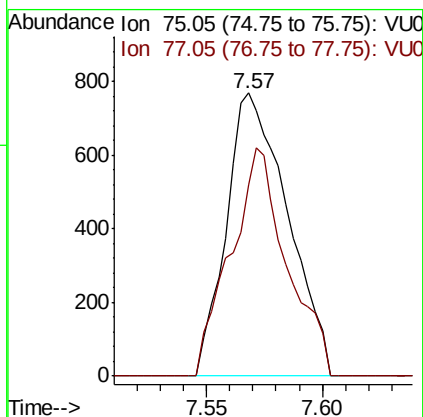
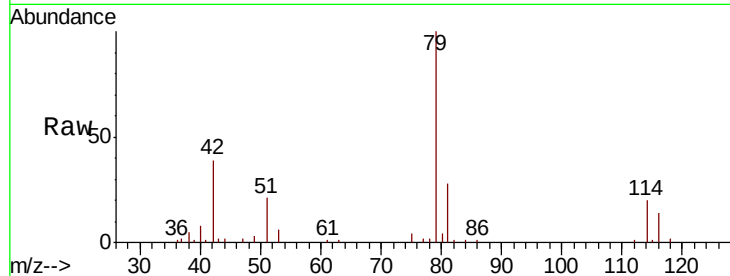




#39
 cis-1,3-Dichloropropene
 Concen: 0.088 ug/L
 RT: 7.57 min Scan# 1937
 Delta R.T. -0.04 min
 Lab File: VU041872.D
 Acq: 07 Jan 2021 15:05

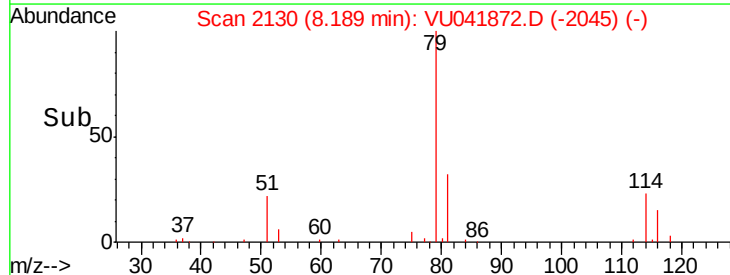
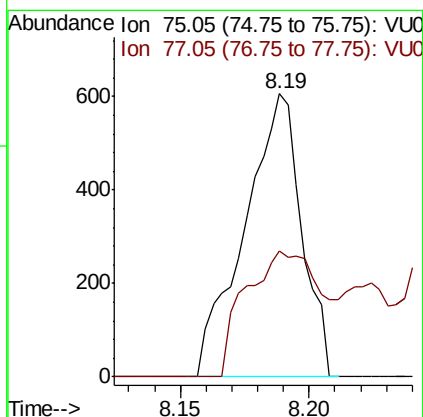
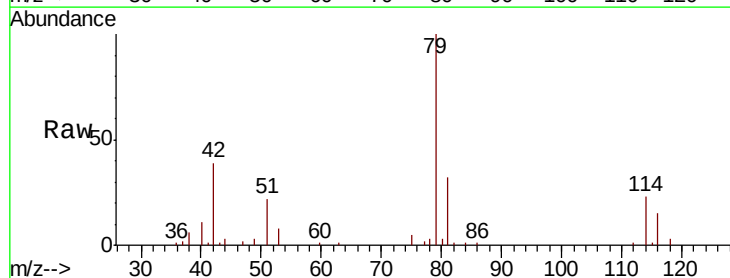
Instrument :
 MSVOA_U
 ClientSampleId :

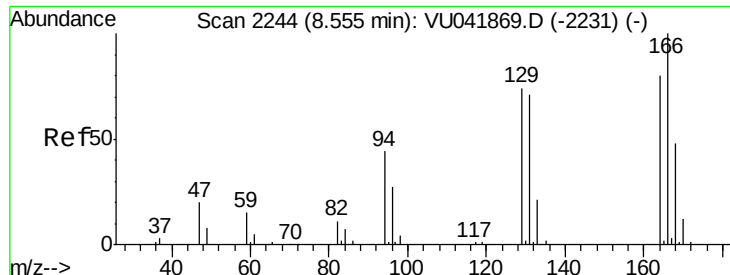
Tot Ion: 75 Resp: 1409
 Ion Ratio Lower Upper
 75 100
 77 67.6 22.3 41.3#



#44
 trans-1,3-Dichloropropene
 Concen: 0.065 ug/L
 RT: 8.19 min Scan# 2130
 Delta R.T. -0.03 min
 Lab File: VU041872.D
 Acq: 07 Jan 2021 15:05

Tgt Ion: 75 Resp: 936
 Ion Ratio Lower Upper
 75 100
 77 44.6 23.8 44.2#





#47

Tetrachloroethene

Concen: 2.921 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VU041872.D

Acq: 07 Jan 2021 15:05

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 21693

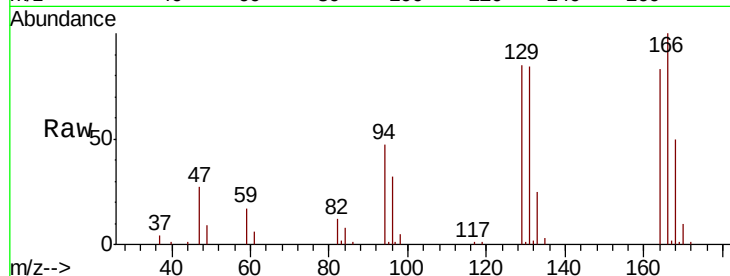
Ion Ratio Lower Upper

164 100

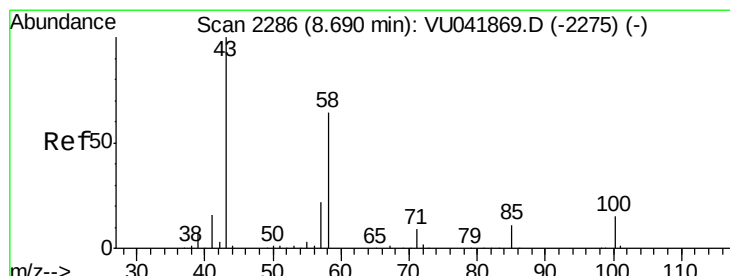
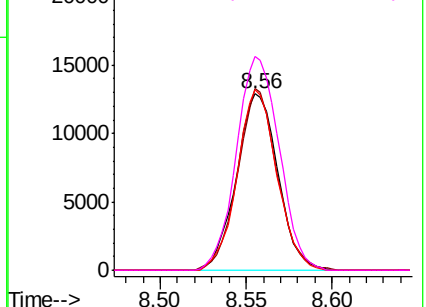
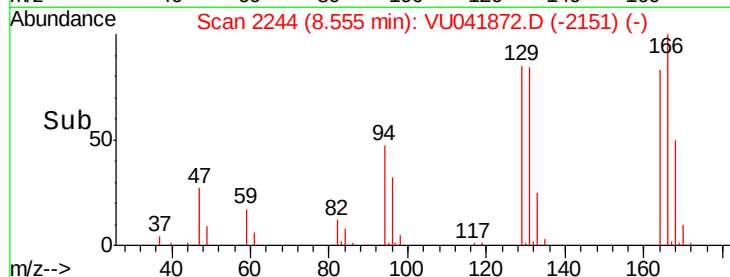
129 102.9 72.2 134.0

131 102.1 66.9 124.3

166 121.0 89.6 166.4



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.772 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041872.D

Acq: 07 Jan 2021 15:05

Tgt Ion: 43 Resp: 15504

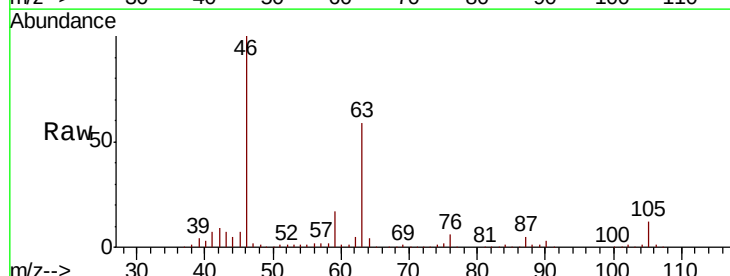
Ion Ratio Lower Upper

43 100

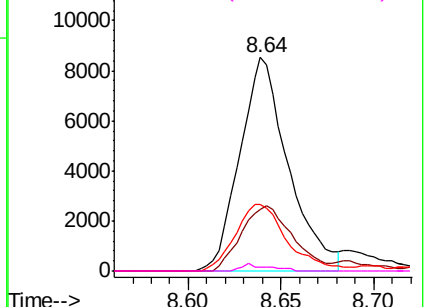
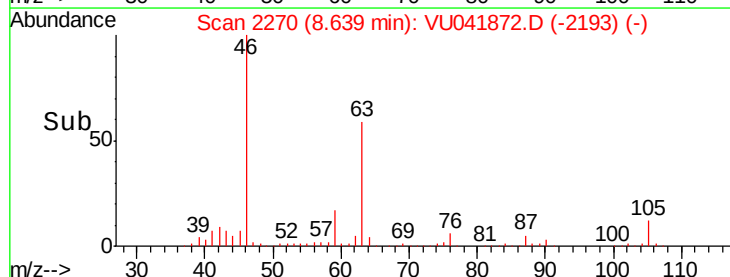
58 32.3 47.9 71.9#

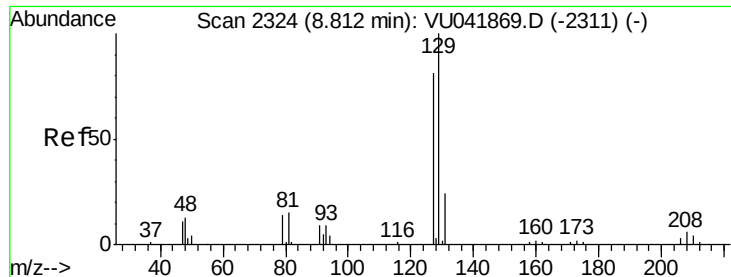
57 33.3 16.5 24.7#

100 1.9 9.4 14.2#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 2.319 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041872.D

Acq: 07 Jan 2021 15:05

Instrument :

MSVOA_U

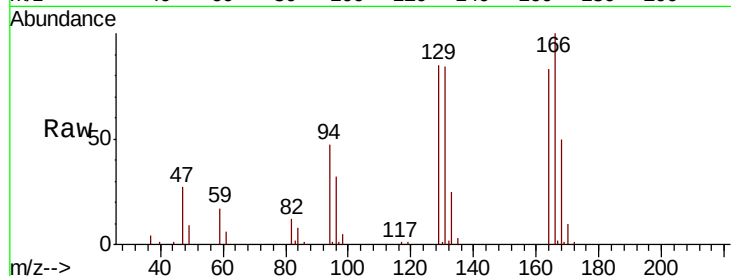
ClientSampled :

Tot Ion:129 Resp: 21271

Ion Ratio Lower Upper

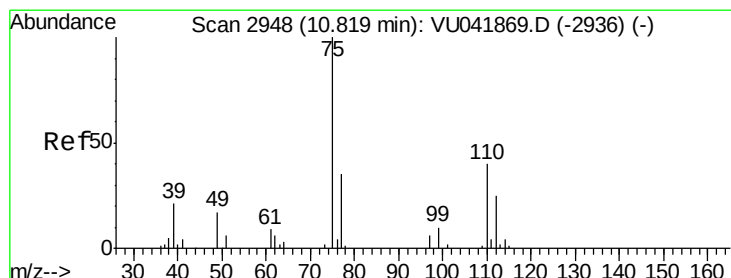
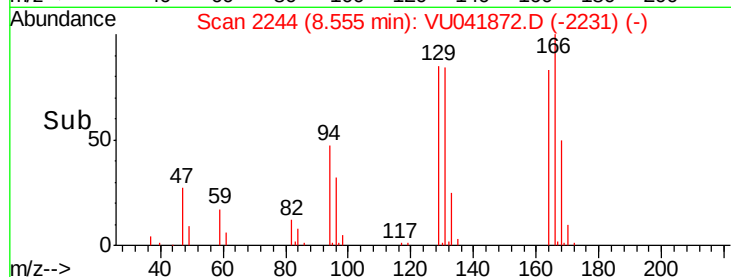
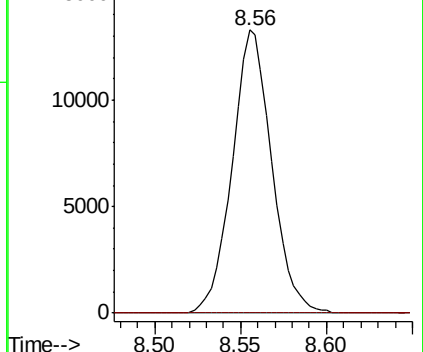
129 100

127 0.0 54.7 101.7#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#59

1,2,3-Trichloropropane

Concen: 0.769 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041872.D

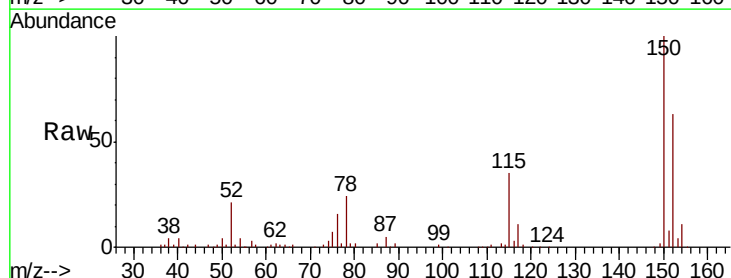
Acq: 07 Jan 2021 15:05

Tgt Ion: 75 Resp: 6240

Ion Ratio Lower Upper

75 100

77 33.9 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

