

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041878.D
 Acq On : 07 Jan 2021 17:29
 Operator : SY/MD
 Sample : M1026-09
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 08 05:00:34 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	139859	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	138423	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	57234	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	42269	3.87	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.40%
7) Chloroethane-d5	1.92	69	45882	5.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.40%
11) 1,1-Dichloroethene-d2	2.58	63	74096	3.68	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.60%
20) 2-Butanone-d5	4.66	46	182165	58.00	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.00%
24) Chloroform-d	5.08	84	100558	5.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.40%
26) 1,2-Dichloroethane-d4	5.72	65	58094	5.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.40%
32) Benzene-d6	5.74	84	192757	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
36) 1,2-Dichloropropane-d6	6.70	67	66798	5.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.40%
41) Toluene-d8	7.91	98	152748	4.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.40%
43) trans-1,3-Dichloropropene-	8.19	79	23326	4.17	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.40%
46) 2-Hexanone-d5	8.64	63	149198	48.84	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.68%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	60544	5.36	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	56505	5.55	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	1718	0.145	ug/L	97
3) Chloromethane	1.52	50	4389	0.381	ug/L	97
9) Trichlorofluoromethane	2.15	101	5455456	339.098	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	91537	9.514	ug/L	97
12) 1,1-Dichloroethene	2.59	96	18169	1.915	ug/L #	63
13) Acetone	2.66	43	2932	1.468	ug/L	75
16) Methylene chloride	3.06	84	5547	0.490	ug/L	89
17) Methyl tert-butyl Ether	3.38	73	190774	7.536	ug/L	99
19) 1,1-Dichloroethane	3.89	63	123754	6.747	ug/L	97
22) cis-1,2-Dichloroethene	4.68	96	4779	0.441	ug/L	88
25) Chloroform	5.11	83	16972	0.919	ug/L	98
27) 1,2-Dichloroethane	5.81	62	706	0.056	ug/L #	73
29) 1,1,1-Trichloroethane	5.33	97	10679	0.672	ug/L	96
31) Carbon tetrachloride	5.53	117	3298	0.240	ug/L	98
34) Trichloroethene	6.55	95	89280	8.026	ug/L	98
35) Methylcyclohexane	6.70	83	15856	0.882	ug/L #	19
37) 1,2-Dichloropropane	6.70	63	6841	0.604	ug/L #	88

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MSVOA_U
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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

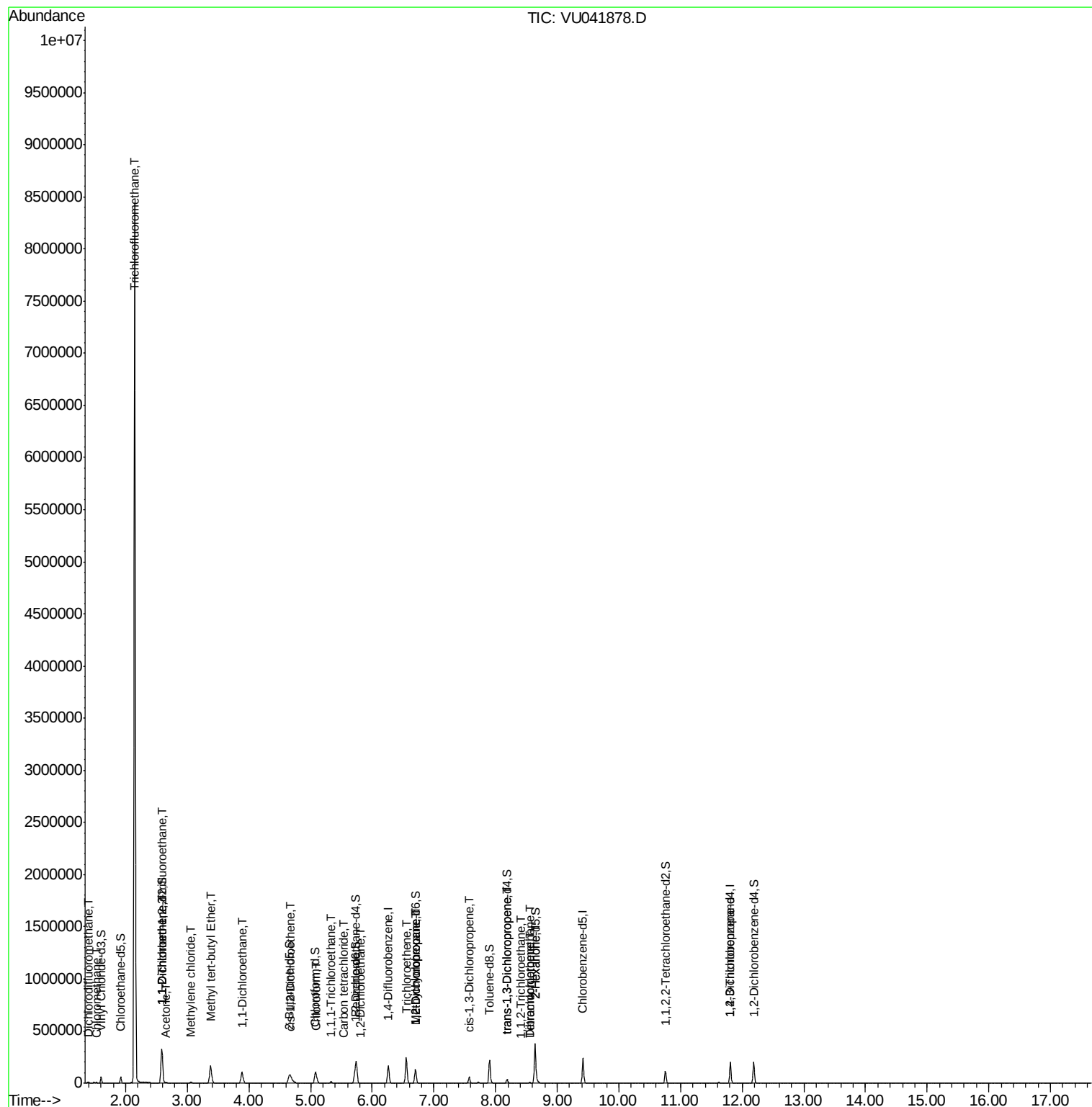
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.57	75	1313	0.078	ug/L #	36
44) trans-1,3-Dichloropropene	8.19	75	838	0.056	ug/L #	53
45) 1,1,2-Trichloroethane	8.40	97	466	0.056	ug/L #	75
47) Tetrachloroethene	8.56	164	1803	0.232	ug/L	85
48) 2-Hexanone	8.64	43	17735	3.024	ug/L #	68
49) Dibromochloromethane	8.56	129	1405	0.146	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6594	0.775	ug/L	92

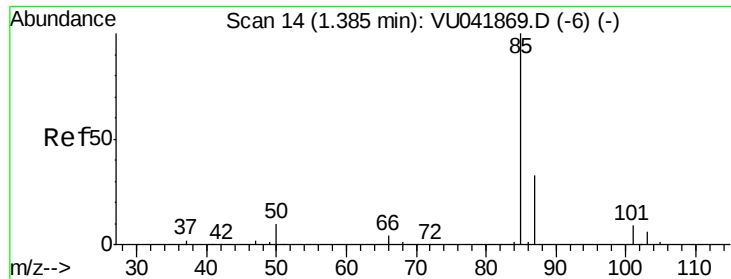
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.145 ug/L

RT: 1.39 min Scan# 14

Delta R.T. -0.00 min

Lab File: VU041878.D

Acq: 07 Jan 2021 17:29

Instrument :

MSVOA_U

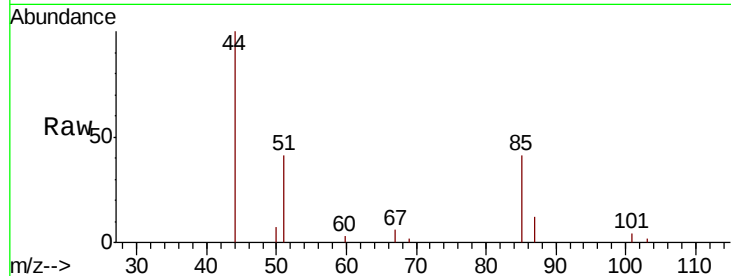
ClientSampleId :

Tot Ion: 85 Resp: 1718

Ion Ratio Lower Upper

85 100

87 33.8 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.39

1500

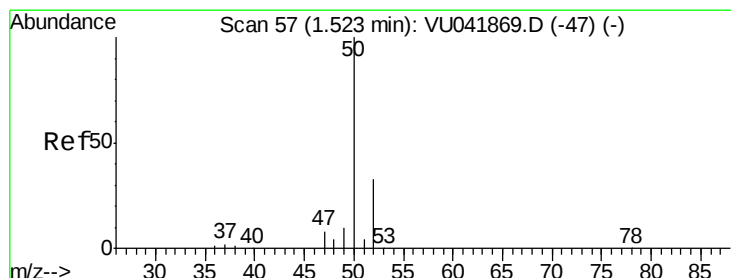
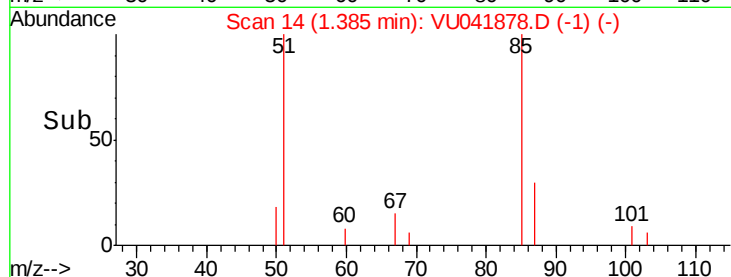
1000

500

0

1.36 1.38 1.40 1.42

Time-->



#3

Chloromethane

Concen: 0.381 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041878.D

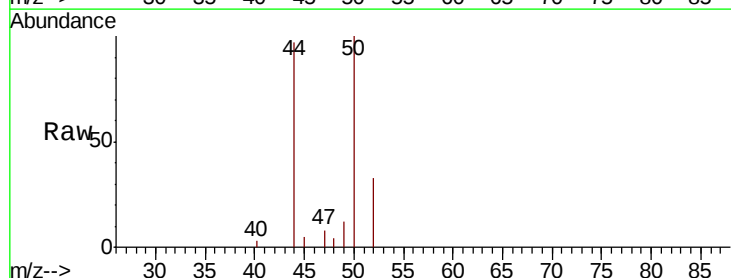
Acq: 07 Jan 2021 17:29

Tgt Ion: 50 Resp: 4389

Ion Ratio Lower Upper

50 100

52 32.6 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.52

4000

3000

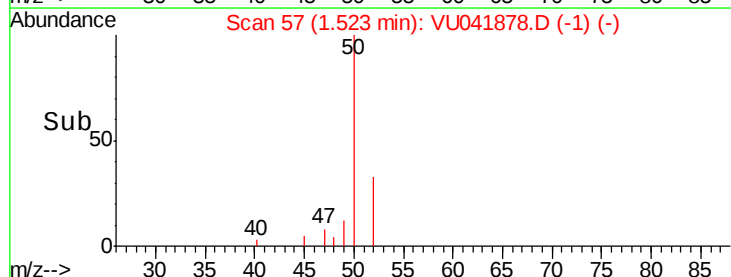
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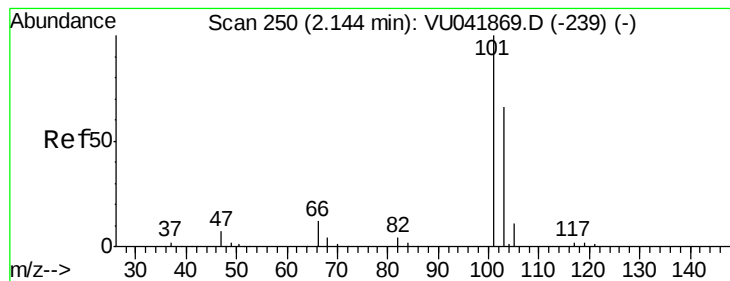
1000

0

1.50 1.52 1.54 1.56

Time-->



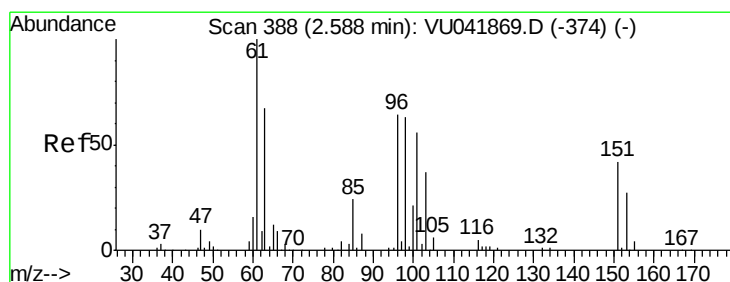
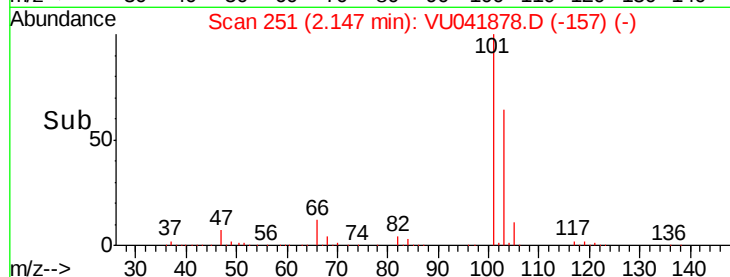
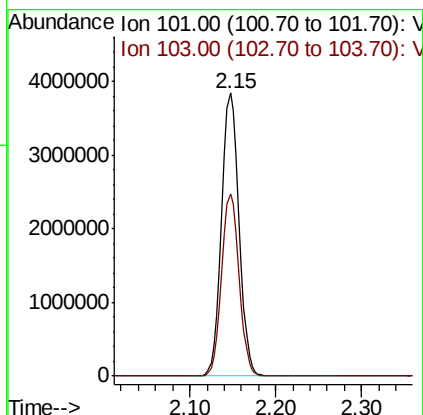
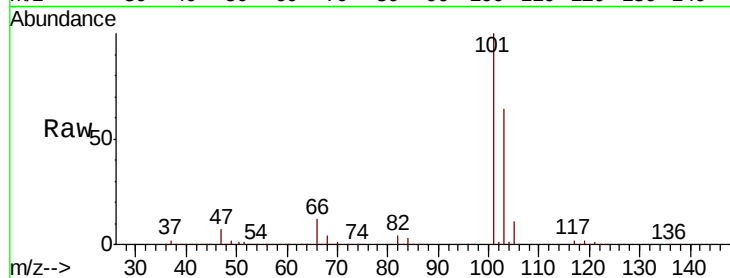


#9

Trichlorofluoromethane
Concen: 339.098 ug/L
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU041878.D
Acq: 07 Jan 2021 17:29

Instrument :
MSVOA_U
ClientSampled :

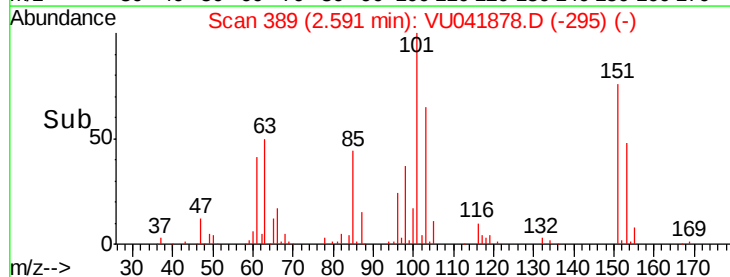
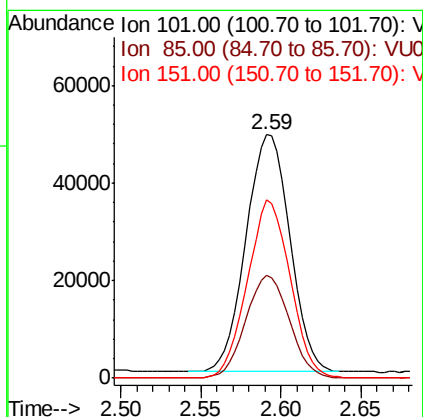
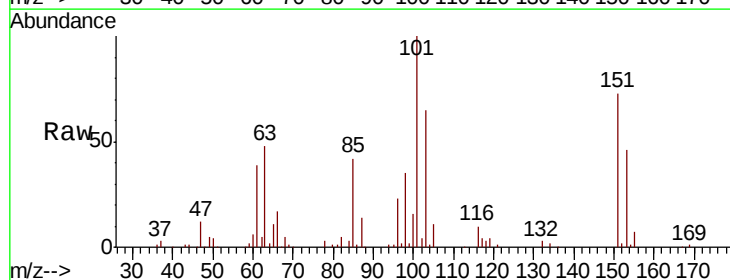
Tot Ion:101 Resp: 5455456
Ion Ratio Lower Upper
101 100
103 64.4 51.1 76.7

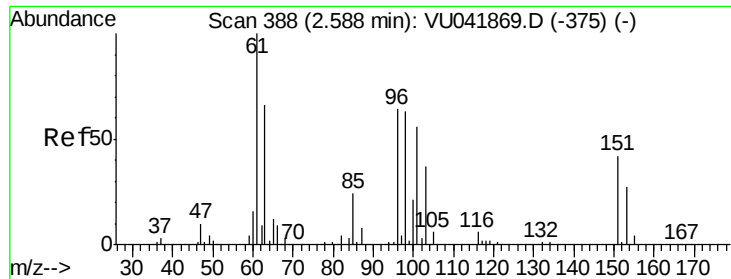


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 9.514 ug/L
RT: 2.59 min Scan# 389
Delta R.T. 0.00 min
Lab File: VU041878.D
Acq: 07 Jan 2021 17:29

Tgt Ion:101 Resp: 91537
Ion Ratio Lower Upper
101 100
85 42.9 33.6 50.4
151 73.2 56.2 84.4

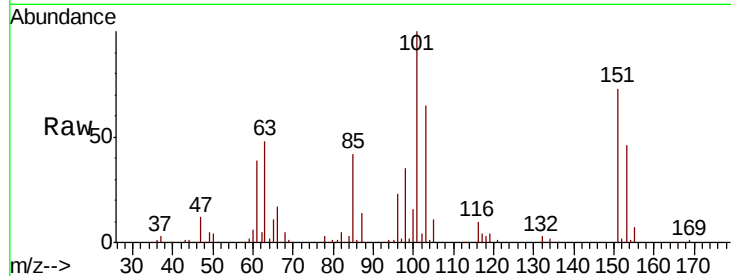




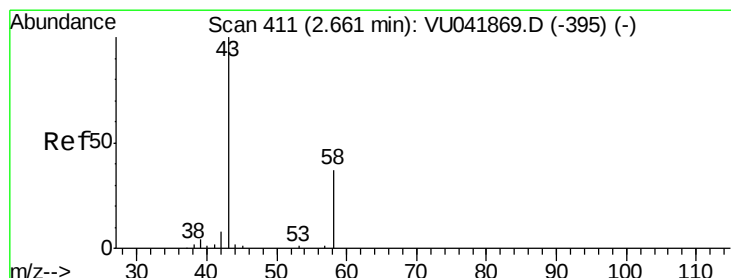
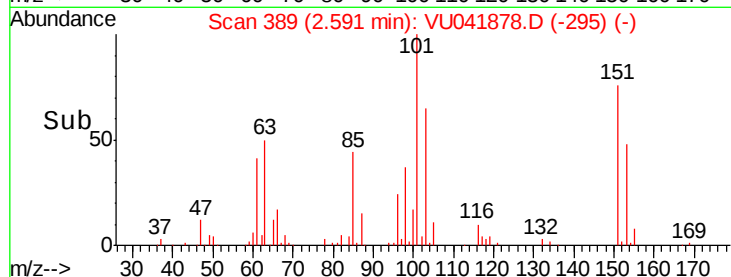
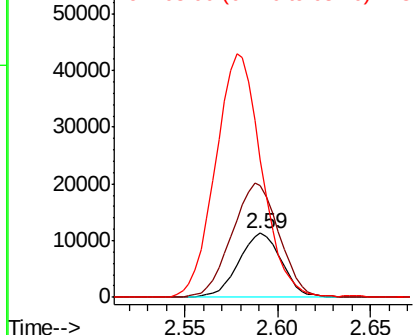
#12
 1,1-Dichloroethene
 Concen: 1.915 ug/L
 RT: 2.59 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VU041878.D
 Acq: 07 Jan 2021 17:29

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 18169
 Ion Ratio Lower Upper
 96 100
 61 175.1 123.8 230.0
 63 214.5 81.0 150.4#

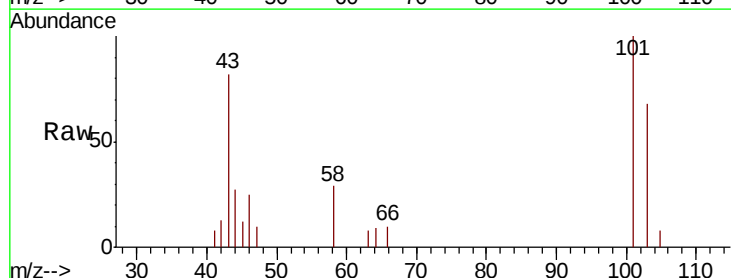


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 63.00 (62.70 to 63.70): VU0

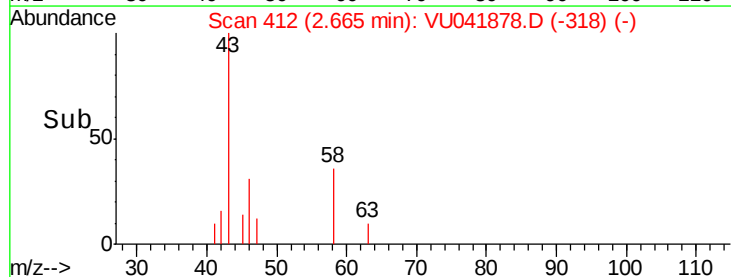
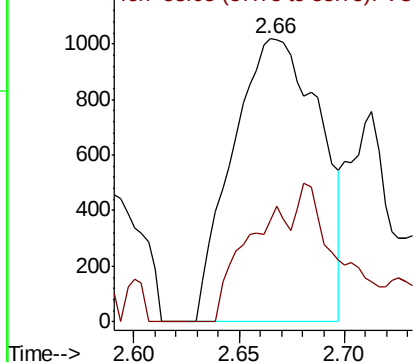


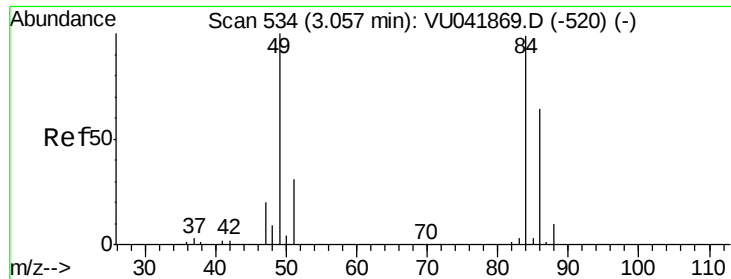
#13
 Acetone
 Concen: 1.468 ug/L
 RT: 2.66 min Scan# 412
 Delta R.T. 0.00 min
 Lab File: VU041878.D
 Acq: 07 Jan 2021 17:29

Tgt Ion: 43 Resp: 2932
 Ion Ratio Lower Upper
 43 100
 58 21.7 0.0 73.2



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

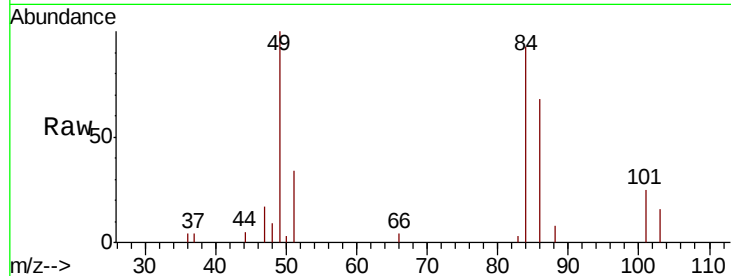




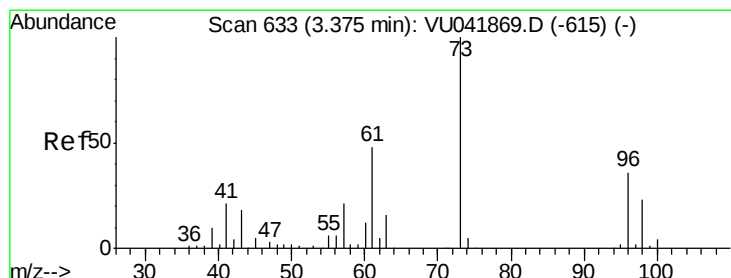
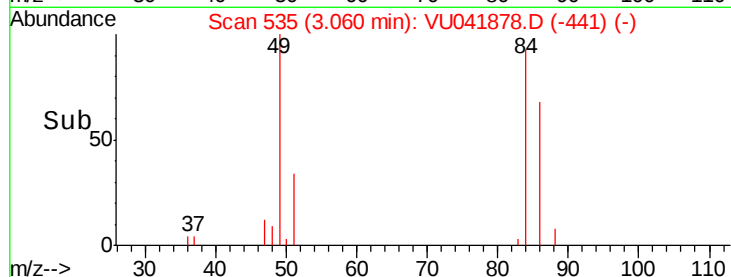
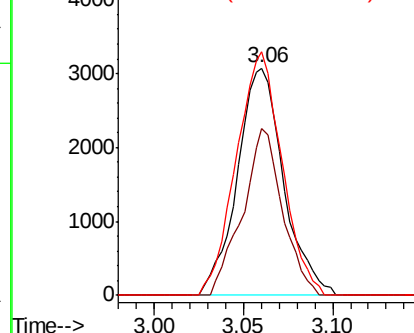
#16
Methvlene chloride
Concen: 0.490 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU041878.D
Acq: 07 Jan 2021 17:29

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 5547
Ion Ratio Lower Upper
84 100
86 73.1 45.1 83.7
49 107.1 83.1 154.3

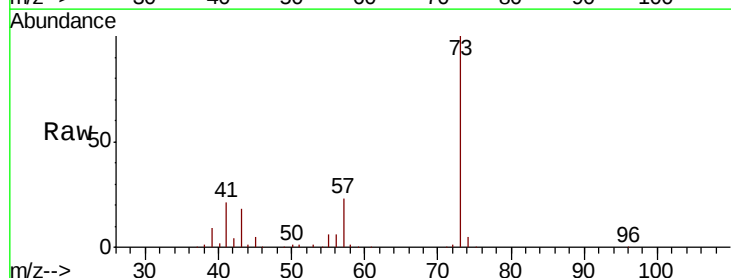


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

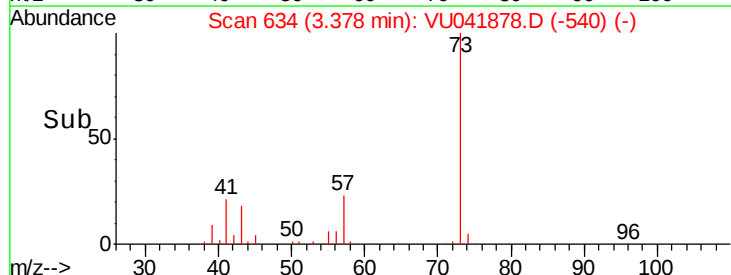
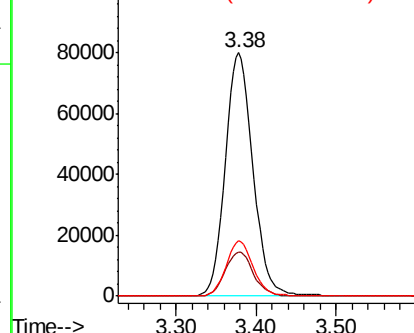


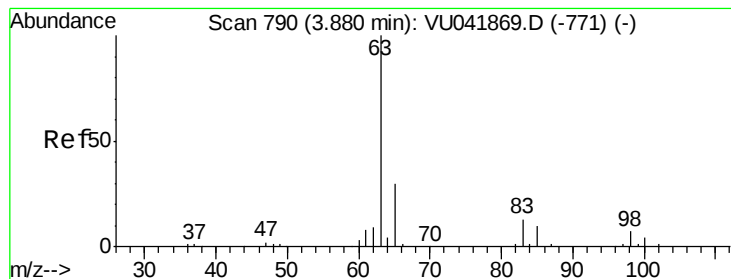
#17
Methyl tert-butyl Ether
Concen: 7.536 ug/L
RT: 3.38 min Scan# 634
Delta R.T. 0.00 min
Lab File: VU041878.D
Acq: 07 Jan 2021 17:29

Tgt Ion: 73 Resp: 190774
Ion Ratio Lower Upper
73 100
43 18.5 14.7 22.1
57 22.3 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





#19

1,1-Dichloroethane

Concen: 6.747 ug/L

RT: 3.89 min Scan# 792

Delta R.T. 0.01 min

Lab File: VU041878.D

Acq: 07 Jan 2021 17:29

Instrument :

MSVOA_U

ClientSampleId :

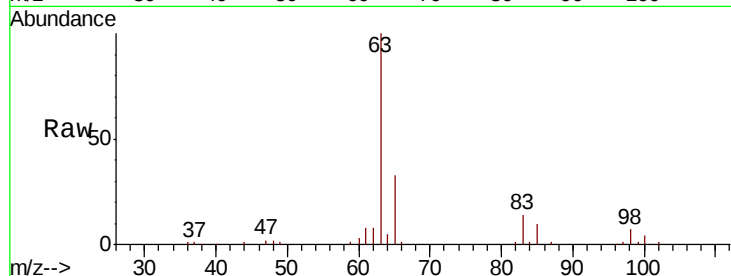
Tot Ion: 63 Resp: 123754

Ion Ratio Lower Upper

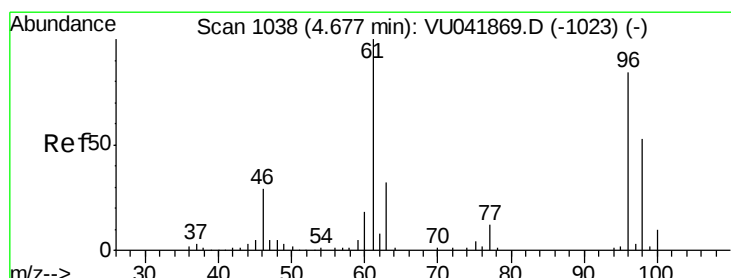
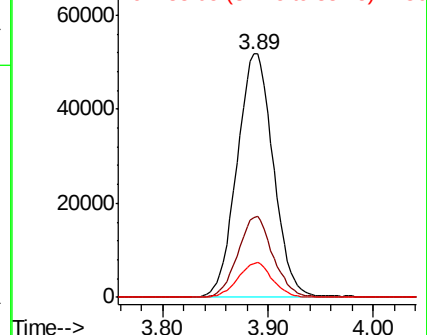
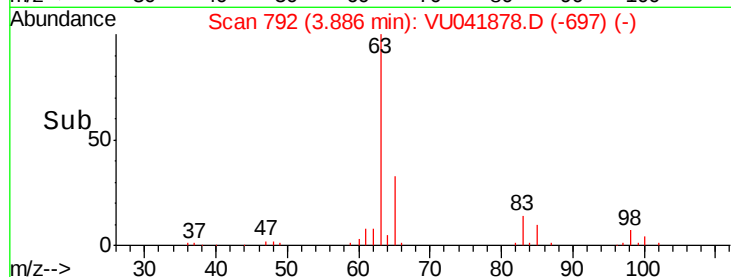
63 100

65 32.9 21.3 39.6

83 13.7 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU041878.D (-697) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.441 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.01 min

Lab File: VU041878.D

Acq: 07 Jan 2021 17:29

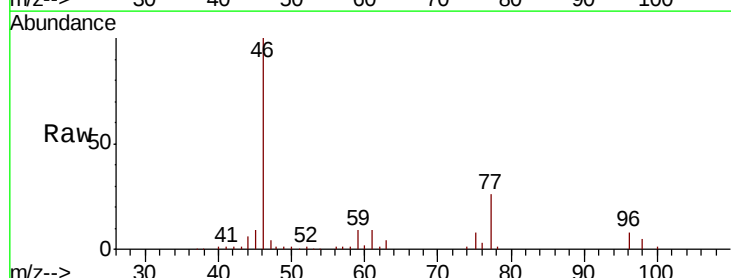
Tgt Ion: 96 Resp: 4779

Ion Ratio Lower Upper

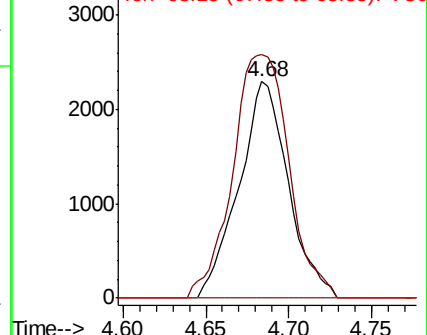
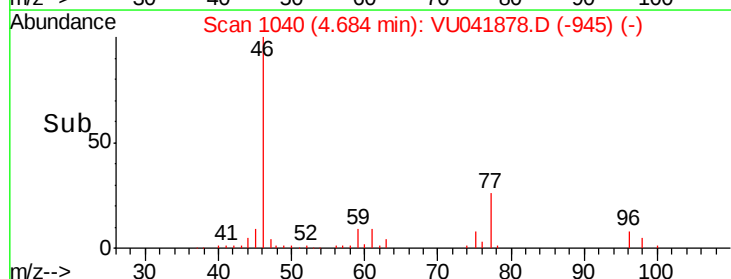
96 100

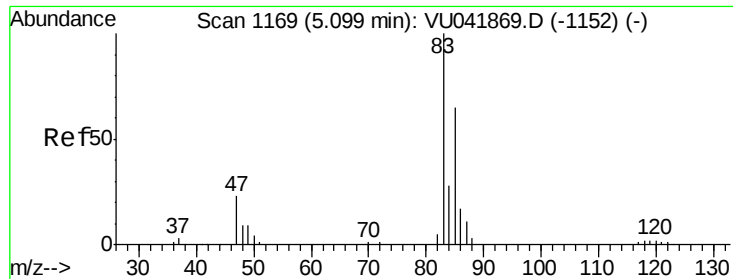
61 112.6 88.8 165.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU041878.D (-945) (-)

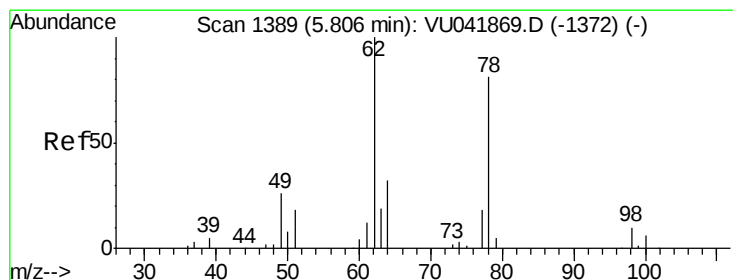
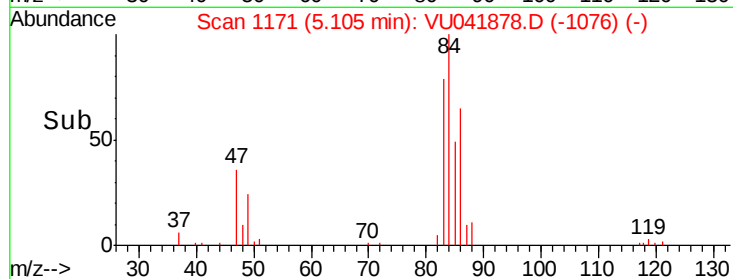
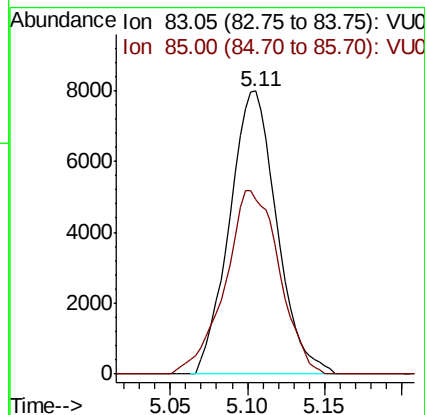
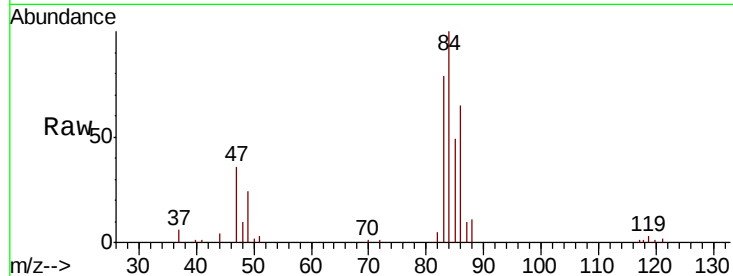




#25
Chloroform
Concen: 0.919 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.01 min
Lab File: VU041878.D
Acq: 07 Jan 2021 17:29

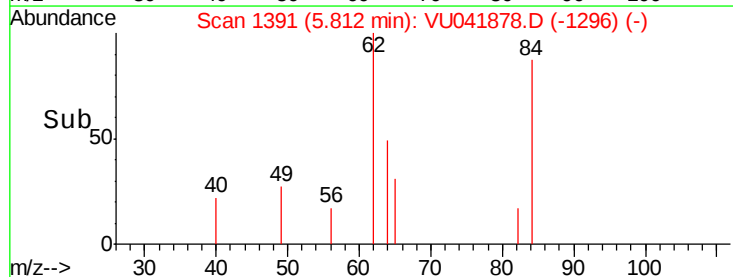
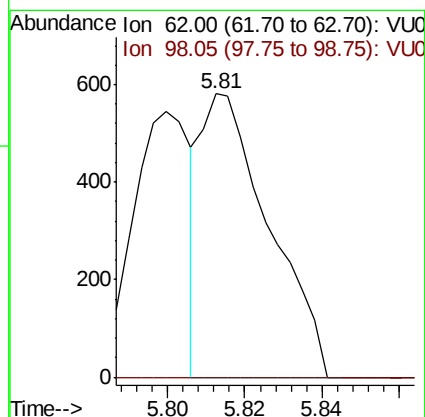
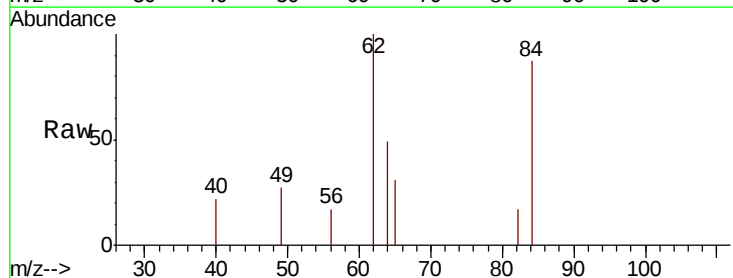
Instrument :
MSVOA_U
ClientSampleId :

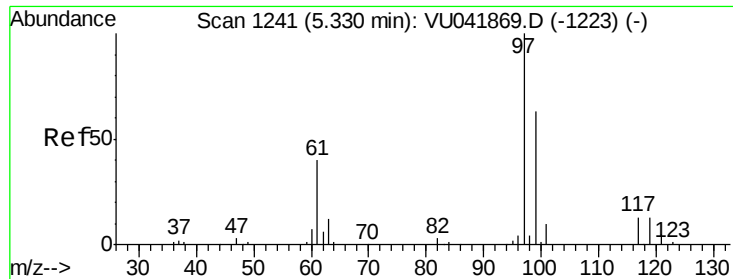
Tot Ion: 83 Resp: 16972
Ion Ratio Lower Upper
83 100
85 61.9 44.2 82.0



#27
1,2-Dichloroethane
Concen: 0.056 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.01 min
Lab File: VU041878.D
Acq: 07 Jan 2021 17:29

Tgt Ion: 62 Resp: 706
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#

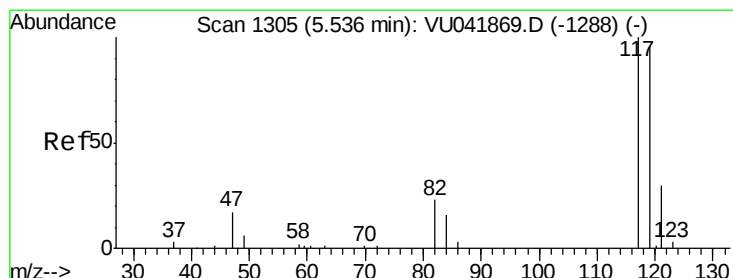
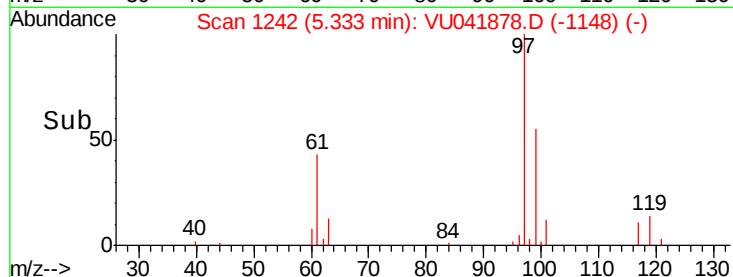
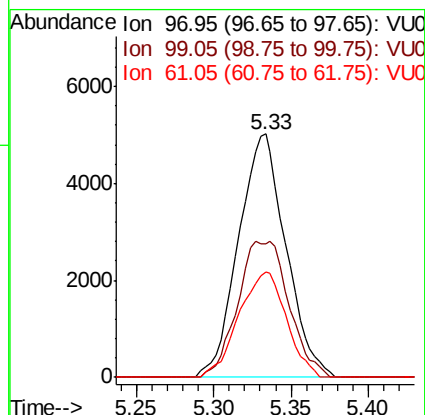
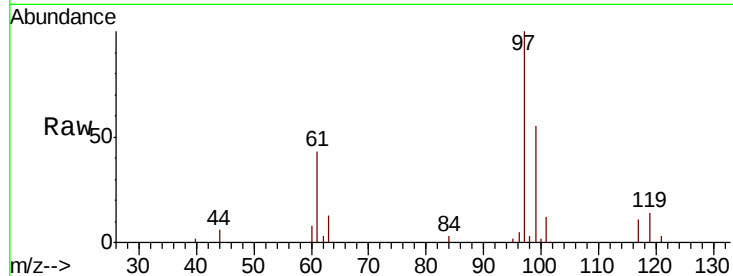




#29
 1,1,1-Trichloroethane
 Concen: 0.672 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU041878.D
 Acq: 07 Jan 2021 17:29

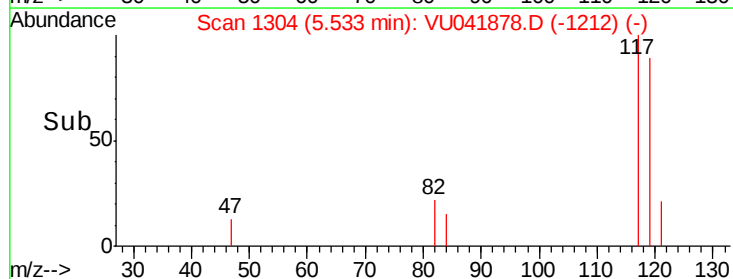
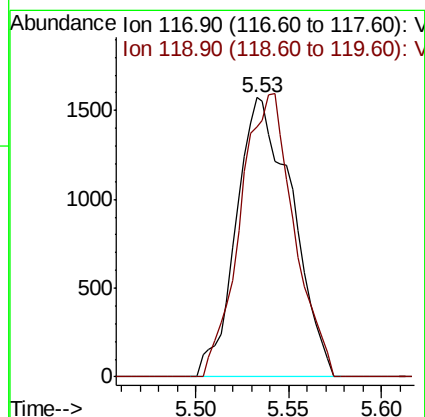
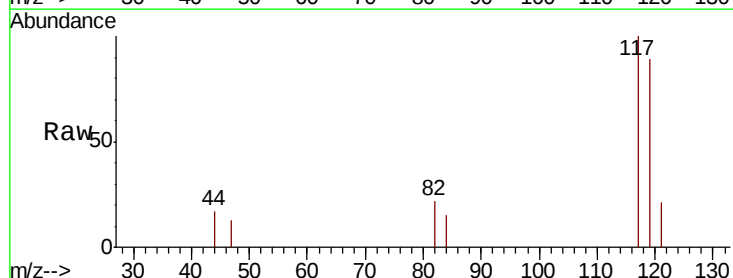
Instrument :
 MSVOA_U
 ClientSampleId :

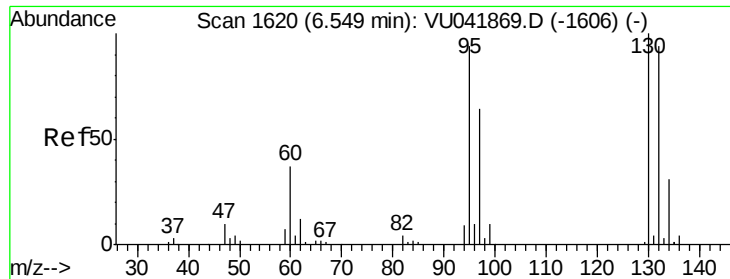
Tot Ion: 97 Resp: 10679
 Ion Ratio Lower Upper
 97 100
 99 60.3 51.3 76.9
 61 43.4 36.5 54.7



#31
 Carbon tetrachloride
 Concen: 0.240 ug/L
 RT: 5.53 min Scan# 1304
 Delta R.T. -0.00 min
 Lab File: VU041878.D
 Acq: 07 Jan 2021 17:29

Tgt Ion: 117 Resp: 3298
 Ion Ratio Lower Upper
 117 100
 119 97.1 76.2 114.2

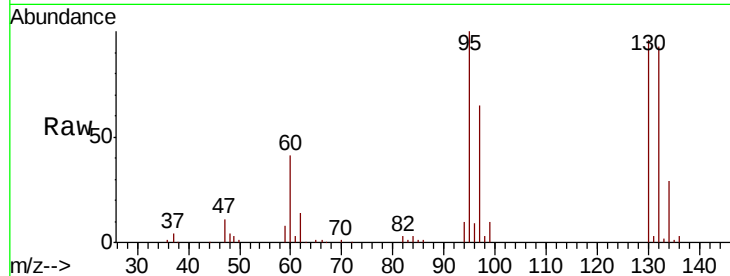




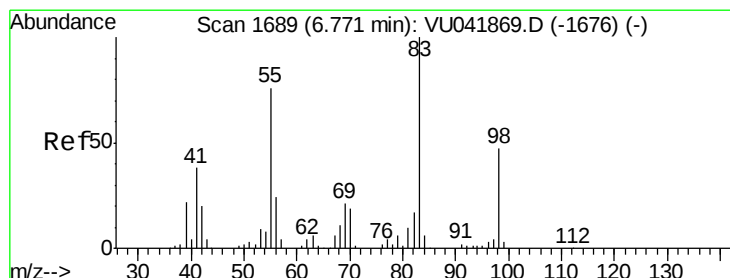
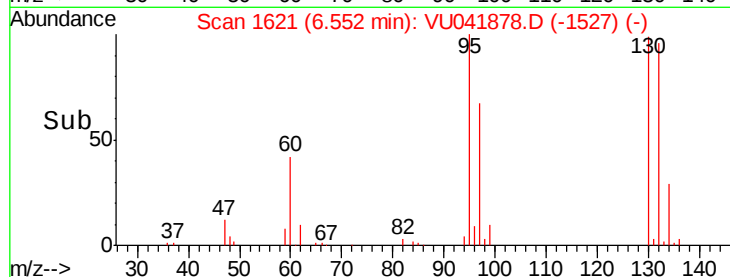
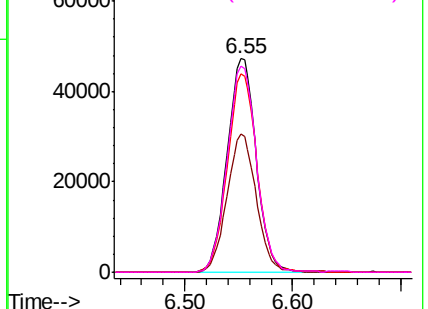
#34
 Trichloroethene
 Concen: 8.026 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU041878.D
 Acq: 07 Jan 2021 17:29

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 89280
 Ion Ratio Lower Upper
 95 100
 97 64.7 43.9 81.5
 132 92.8 63.1 117.3
 130 96.4 67.4 125.2

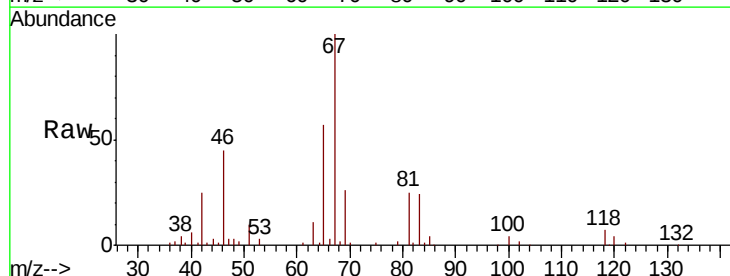


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

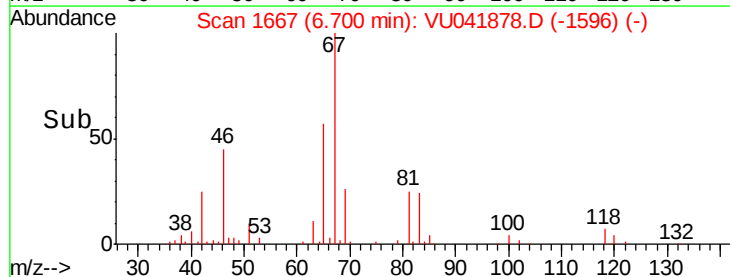
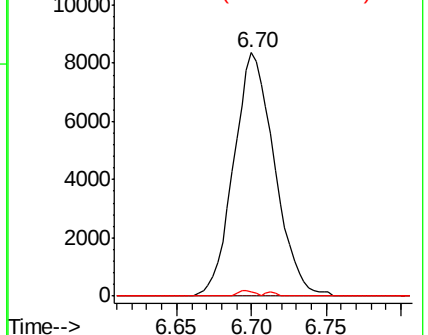


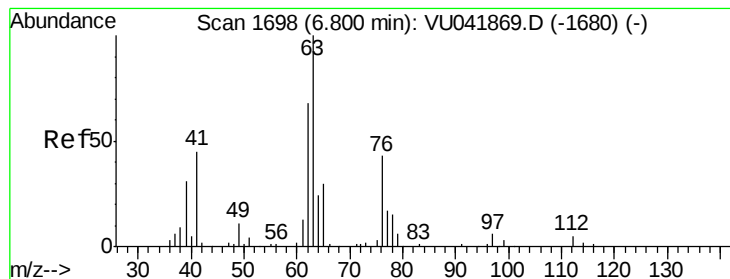
#35
 Methylcyclohexane
 Concen: 0.882 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.07 min
 Lab File: VU041878.D
 Acq: 07 Jan 2021 17:29

Tgt Ion: 83 Resp: 15856
 Ion Ratio Lower Upper
 83 100
 55 0.0 61.2 91.8#
 98 0.9 36.6 54.8#



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.604 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.10 min

Lab File: VU041878.D

Acq: 07 Jan 2021 17:29

Instrument :

MSVOA_U

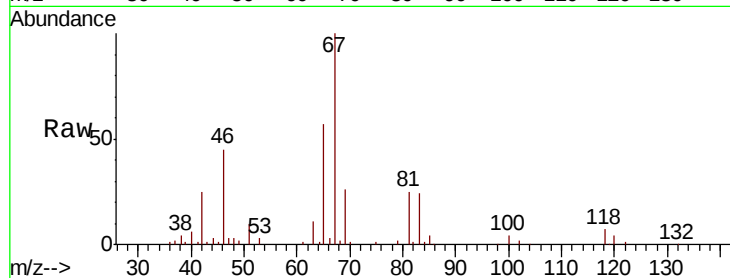
ClientSampleId :

Tot Ion: 63 Resp: 6841

Ion Ratio Lower Upper

63 100

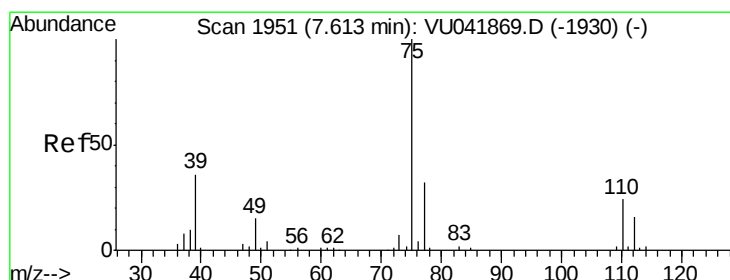
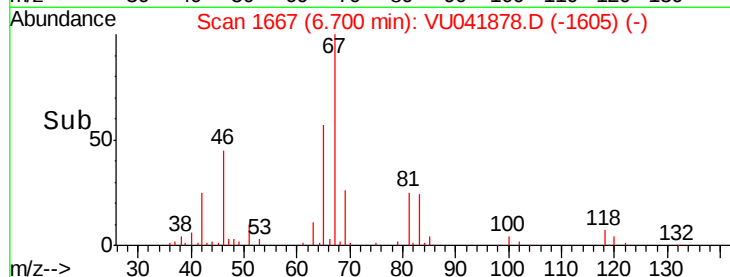
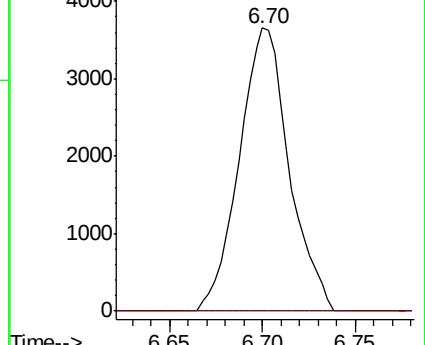
112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU041869.D (-1680) (-)

Ion 112.10 (111.80 to 112.80): VU041869.D (-1680) (-)

6.70



#39

cis-1,3-Dichloropropene

Concen: 0.078 ug/L

RT: 7.57 min Scan# 1938

Delta R.T. -0.04 min

Lab File: VU041878.D

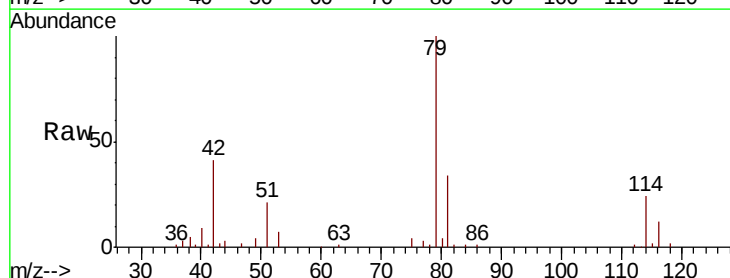
Acq: 07 Jan 2021 17:29

Tgt Ion: 75 Resp: 1313

Ion Ratio Lower Upper

75 100

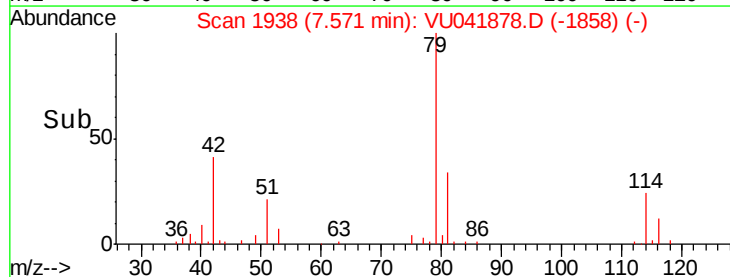
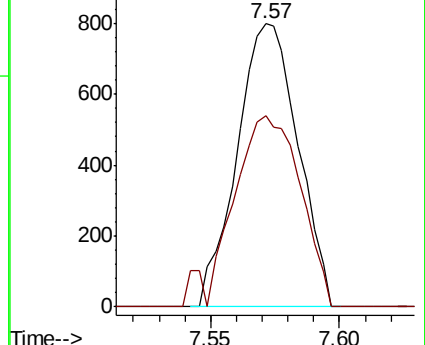
77 67.5 22.3 41.3#

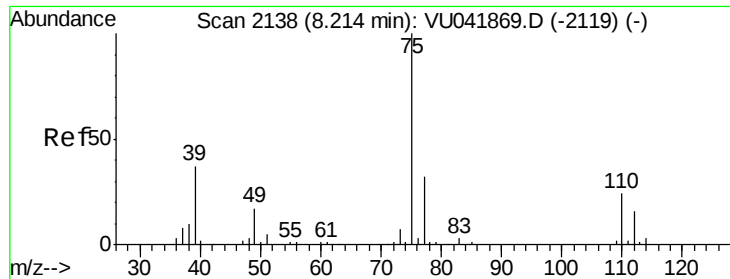


Abundance Ion 75.05 (74.75 to 75.75): VU041869.D (-1930) (-)

Ion 77.05 (76.75 to 77.75): VU041869.D (-1930) (-)

7.57





#44

trans-1,3-Dichloropropene

Concen: 0.056 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041878.D

Acq: 07 Jan 2021 17:29

Instrument :

MSVOA_U

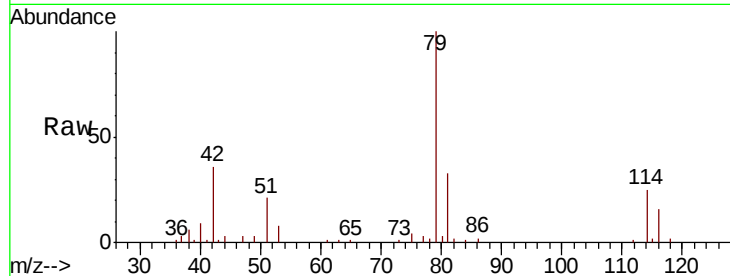
ClientSampleId :

Tot Ion: 75 Resp: 838

Ion Ratio Lower Upper

75 100

77 61.1 23.8 44.2#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.19

600

500

400

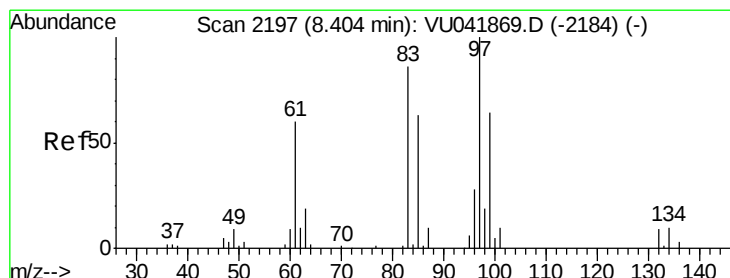
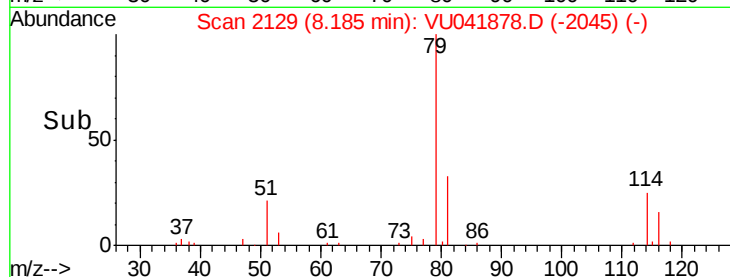
300

200

100

0

Time--> 8.14 8.16 8.18 8.20 8.22



#45

1,1,2-Trichloroethane

Concen: 0.056 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU041878.D

Acq: 07 Jan 2021 17:29

Tgt Ion: 97 Resp: 466

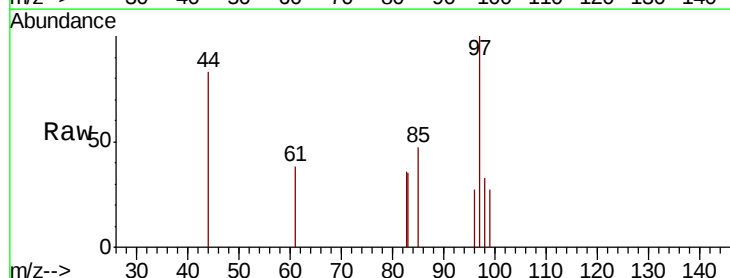
Ion Ratio Lower Upper

97 100

99 26.6 42.1 78.3#

83 70.2 62.6 116.2

85 46.5 39.1 72.7



Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

8.40

600

500

400

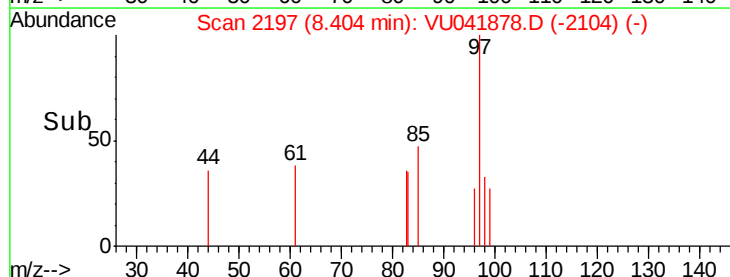
300

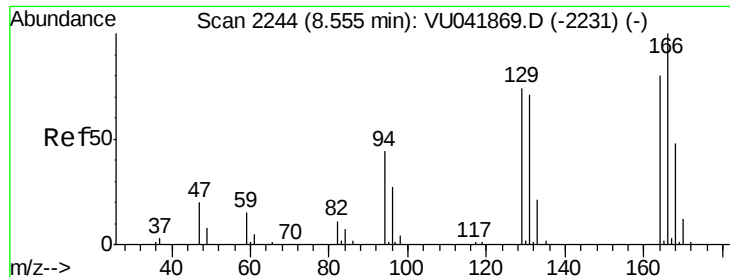
200

100

0

Time--> 8.38 8.40 8.42 8.44





#47

Tetrachloroethene

Concen: 0.232 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041878.D

Acq: 07 Jan 2021 17:29

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 1803

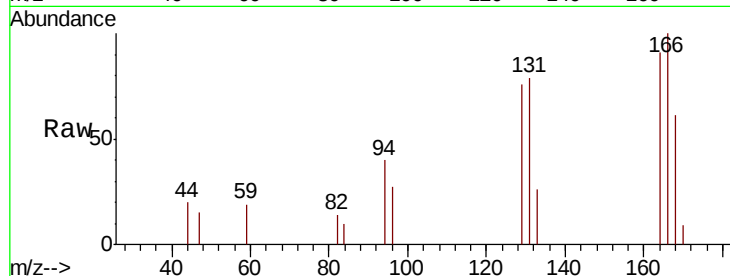
Ion Ratio Lower Upper

164 100

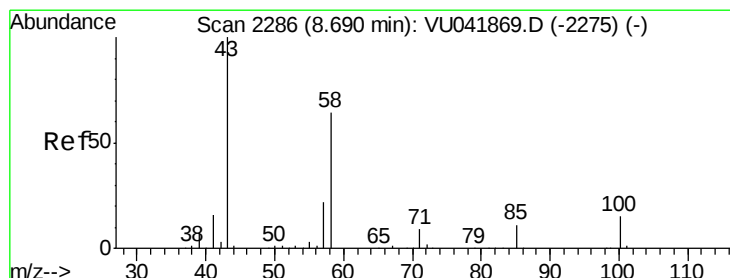
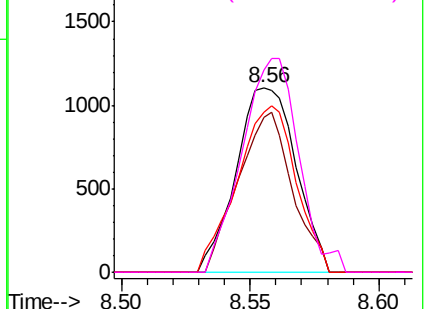
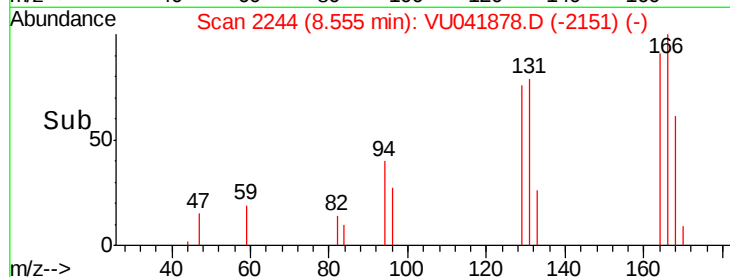
129 83.5 72.2 134.0

131 86.8 66.9 124.3

166 109.7 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: 3.024 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041878.D

Acq: 07 Jan 2021 17:29

Tgt Ion: 43 Resp: 17735

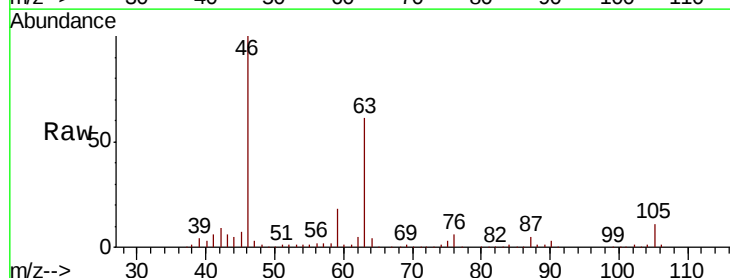
Ion Ratio Lower Upper

43 100

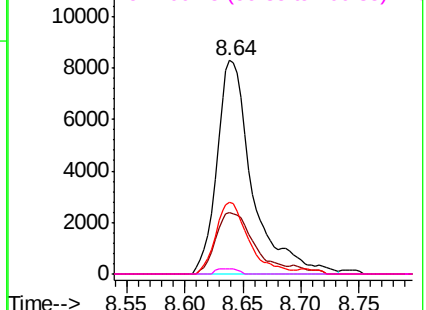
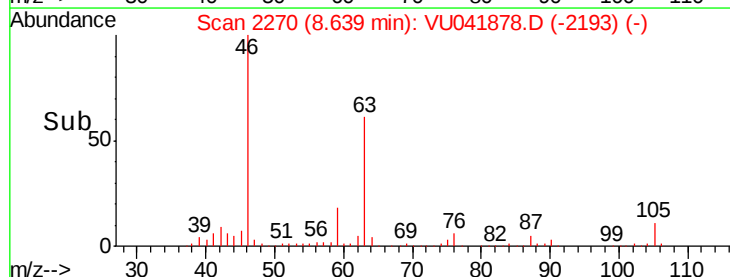
58 33.1 47.9 71.9#

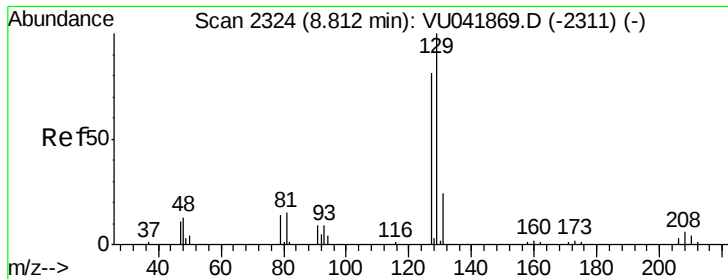
57 31.5 16.5 24.7#

100 1.5 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: 0.146 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041878.D

Acq: 07 Jan 2021 17:29

Instrument :

MSVOA_U

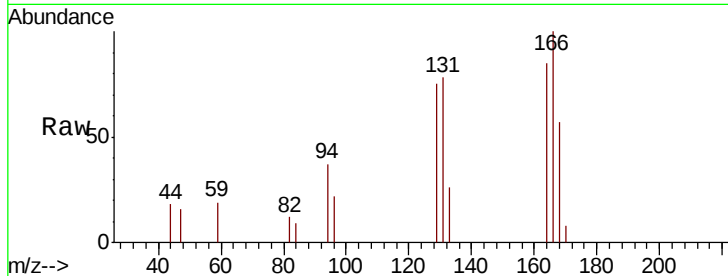
ClientSampled :

Tot Ion:129 Resp: 1405

Ion Ratio Lower Upper

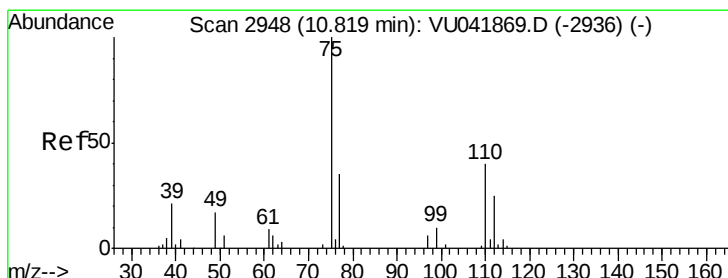
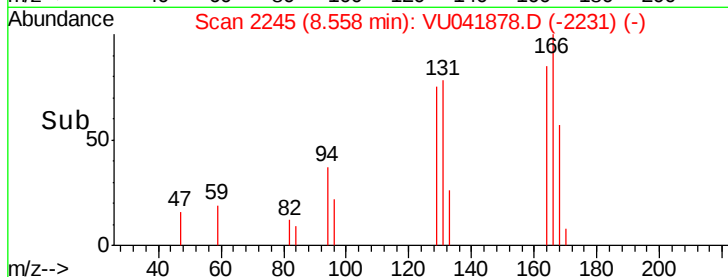
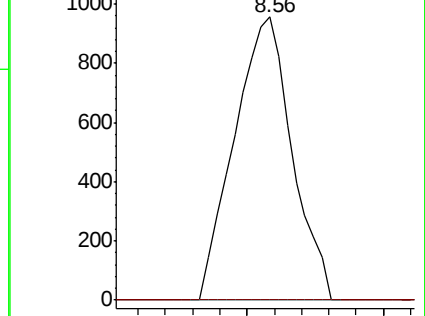
129 100

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: 0.775 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041878.D

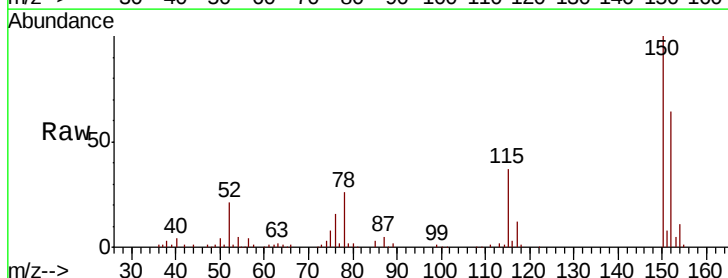
Acq: 07 Jan 2021 17:29

Tgt Ion: 75 Resp: 6594

Ion Ratio Lower Upper

75 100

77 28.4 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

