

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111020\
 Data File : VU041180.D
 Acq On : 10 Nov 2020 15:56
 Operator : SY/MD
 Sample : L4646-22
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0W6

Quant Time: Nov 11 00:52:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 11 00:43:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	54690	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	53792	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	24480	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	15045	3.27	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	65.40%
7) Chloroethane-d5	1.92	69	14280	4.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.80%
11) 1,1-Dichloroethene-d2	2.58	63	24962	2.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	55.40%#
20) 2-Butanone-d5	4.65	46	83855	55.42	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.84%
24) Chloroform-d	5.08	84	40043	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
26) 1,2-Dichloroethane-d4	5.72	65	25884	5.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.80%
32) Benzene-d6	5.74	84	67273	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
36) 1,2-Dichloropropane-d6	6.70	67	24551	5.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.80%
41) Toluene-d8	7.91	98	55319	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.80%
43) trans-1,3-Dichloropropene-	8.19	79	8656	4.26	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.20%
46) 2-Hexanone-d5	8.64	63	57657	52.74	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.48%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	22633	5.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	24724	5.76	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	115.20%

Target Compounds

					Ovalue
3) Chloromethane	1.50	50	786	0.151 ug/L #	43
5) Vinyl chloride	1.61	62	4563	0.888 ug/L	91
8) Chloroethane	1.68	64	5429	1.668 ug/L #	55
10) 1,1,2-Trichloro-1,2,2-trif	2.43	101	1833	0.448 ug/L #	1
12) 1,1-Dichloroethene	2.59	96	1981	0.513 ug/L #	1
13) Acetone	2.66	43	974	0.942 ug/L	96
15) Methyl Acetate	3.06	43	7074	2.989 ug/L #	53
18) trans-1,2-Dichloroethene	3.37	96	13876	3.534 ug/L	91
19) 1,1-Dichloroethane	3.89	63	2541	0.324 ug/L	95
22) cis-1,2-Dichloroethene	4.69	96	997421	246.301 ug/L	95
25) Chloroform	5.11	83	4731	0.601 ug/L	98
29) 1,1,1-Trichloroethane	5.34	97	9219	1.401 ug/L	92
30) Cyclohexane	5.41	56	860	0.133 ug/L #	22
31) Carbon tetrachloride	5.54	117	2213	0.380 ug/L	96
33) Benzene	5.79	78	11082	0.689 ug/L	100
34) Trichloroethene	6.56	95	2485663	607.677 ug/L	95
35) Methylcyclohexane	6.70	83	6058	0.993 ug/L #	14

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Quant Time: Nov 11 00:52:56 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 11 00:43:53 2020
Response via : Initial Calibration

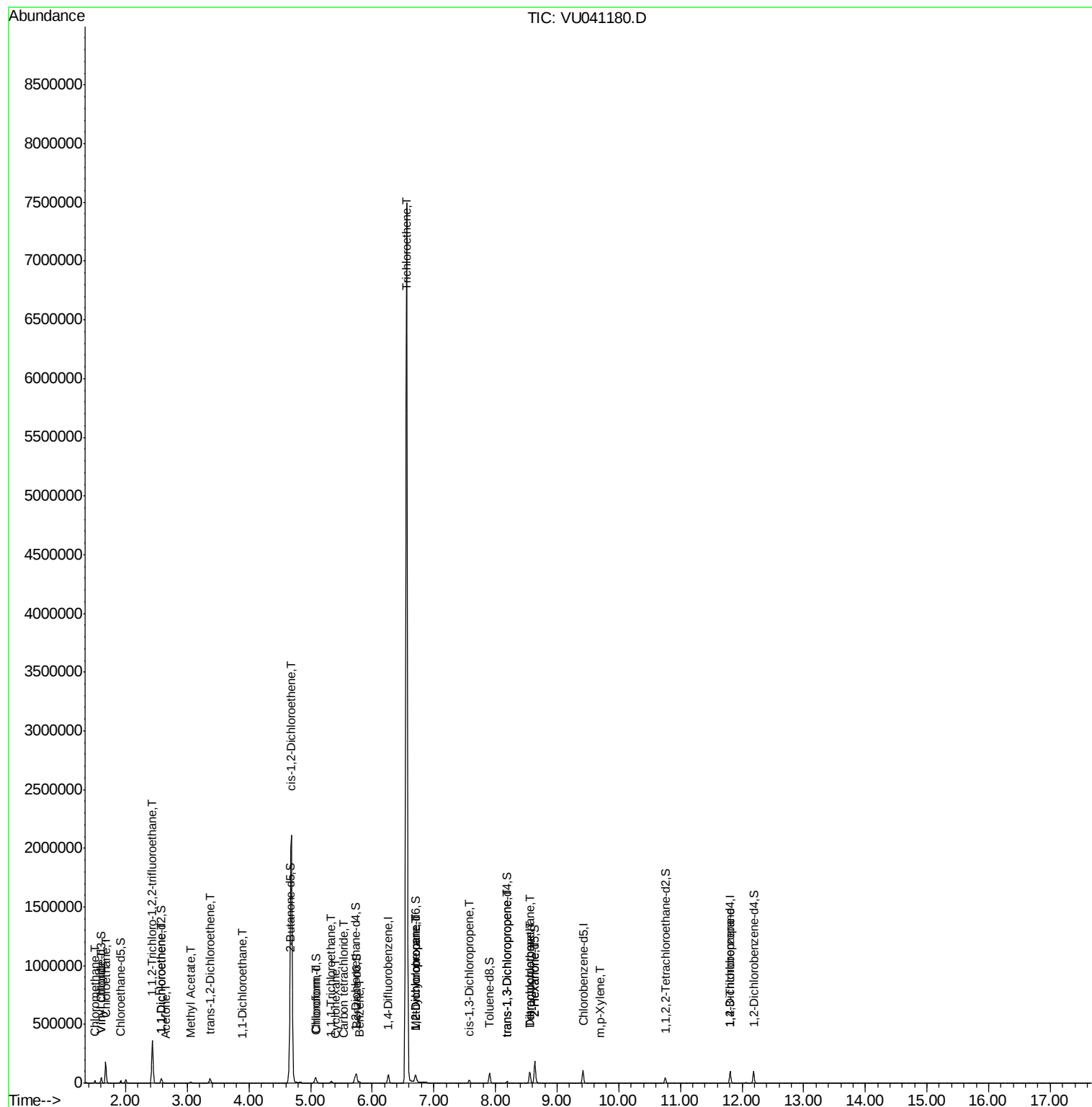
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.70	63	3007	0.691	ug/L #	86
39) cis-1,3-Dichloropropene	7.58	75	593	0.099	ug/L #	50
44) trans-1,3-Dichloropropene	8.19	75	454	0.081	ug/L	96
47) Tetrachloroethene	8.56	164	18545	6.166	ug/L	99
48) 2-Hexanone	8.64	43	8984	3.441	ug/L #	68
49) Dibromochloromethane	8.56	129	19750	5.253	ug/L #	11
53) m,p-Xylene	9.70	106	909	0.145	ug/L	77
59) 1,2,3-Trichloropropane	11.81	75	3262	1.006	ug/L	91

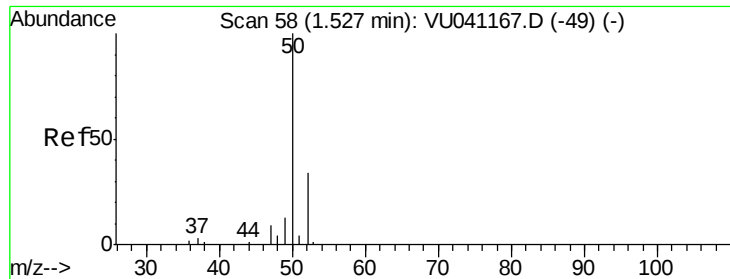
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.151 ug/L

RT: 1.50 min Scan# 50

Delta R.T. -0.03 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

Instrument :

MSVOA_U

ClientSampleId :

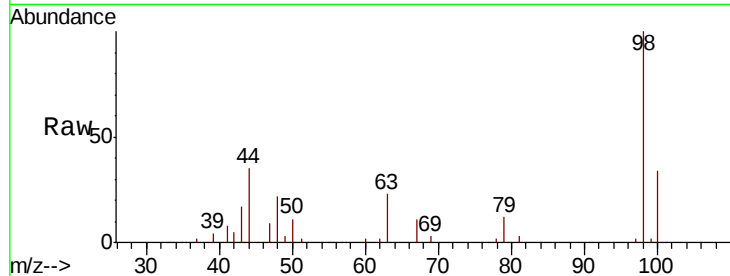
GB0W6

Tot Ion: 50 Resp: 786

Ion Ratio Lower Upper

50 100

52 0.0 22.4 41.6#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.50

800

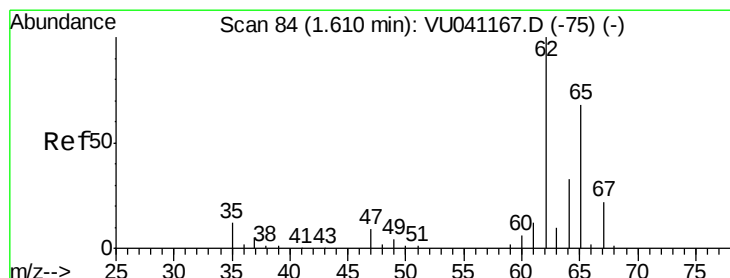
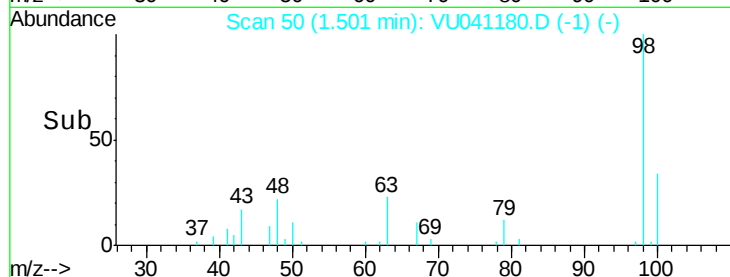
600

400

200

0

Time-->



#5

Vinyl chloride

Concen: 0.888 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU041180.D

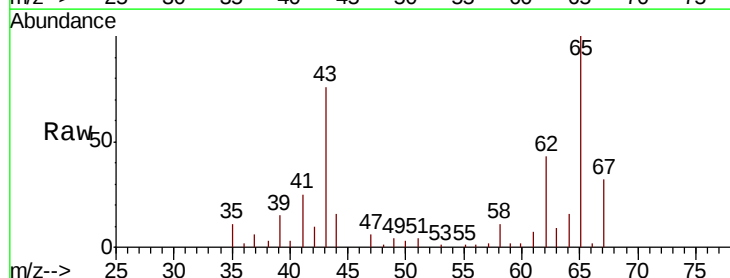
Acq: 10 Nov 2020 15:56

Tgt Ion: 62 Resp: 4563

Ion Ratio Lower Upper

62 100

64 37.8 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

5000

4000

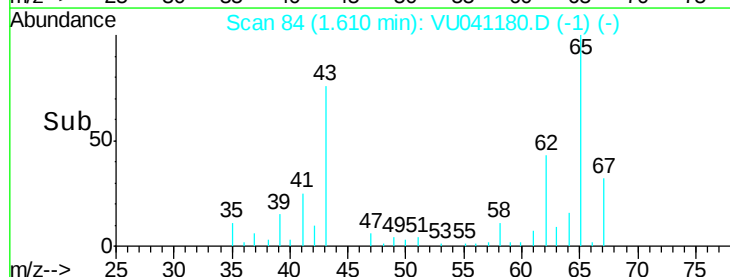
3000

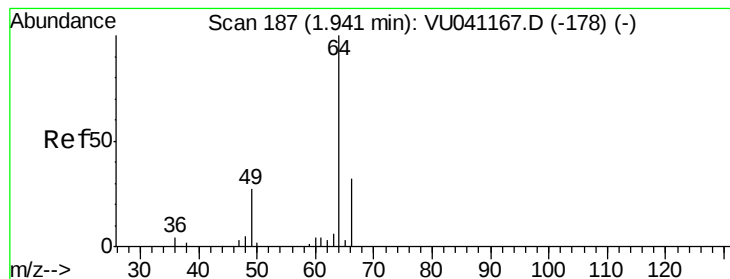
2000

1000

0

Time-->





#8

Chloroethane

Concen: 1.668 ug/L

RT: 1.68 min Scan# 105

Delta R.T. -0.26 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

Instrument :

MSVOA_U

ClientSampleId :

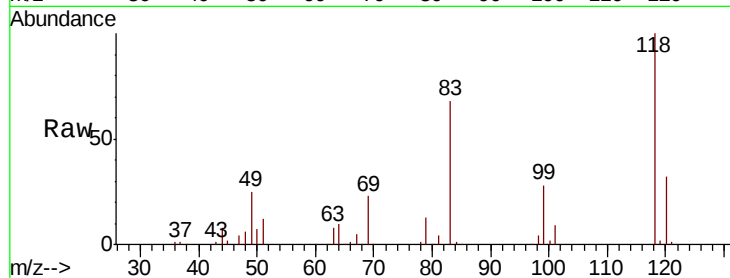
GB0W6

Tot Ion: 64 Resp: 5429

Ion Ratio Lower Upper

64 100

66 6.9 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VU041180.D (-105) (-)

Ion 66.05 (65.75 to 66.75): VU041180.D (-105) (-)

1.68

5000

4000

3000

2000

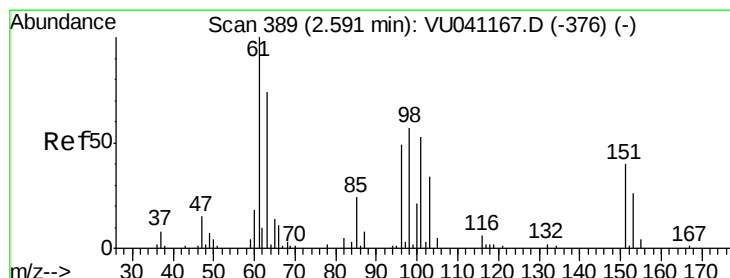
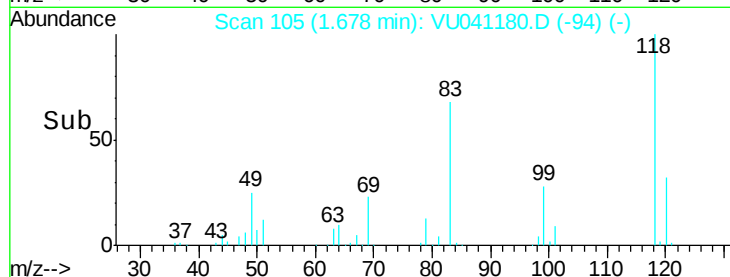
1000

0

1.65

1.70

Time-->



#10

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

Concen: 0.448 ug/L

RT: 2.43 min Scan# 340

Delta R.T. -0.16 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

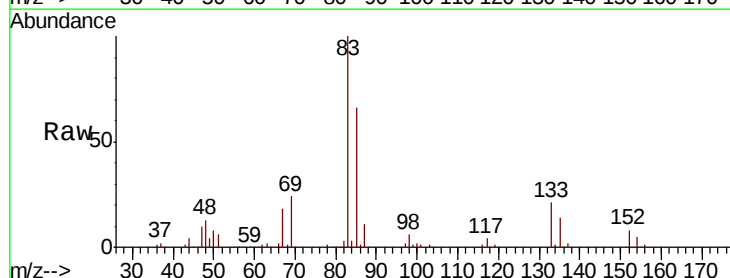
Tgt Ion:101 Resp: 1833

Ion Ratio Lower Upper

101 100

85 6223.5 35.0 52.4#

151 14.3 55.3 82.9#



Abundance Ion 101.00 (100.70 to 101.70): VU041180.D (-296) (-)

Ion 85.00 (84.70 to 85.70): VU041180.D (-296) (-)

Ion 151.00 (150.70 to 151.70): VU041180.D (-296) (-)

80000

60000

40000

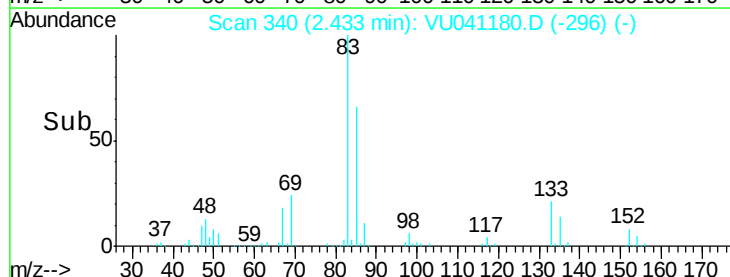
20000

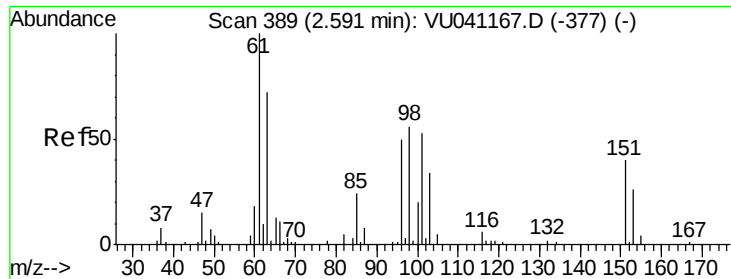
0

2.40

2.45

Time-->





#12

1,1-Dichloroethene

Concen: 0.513 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

Instrument :

MSVOA_U

ClientSampleId :

GB0W6

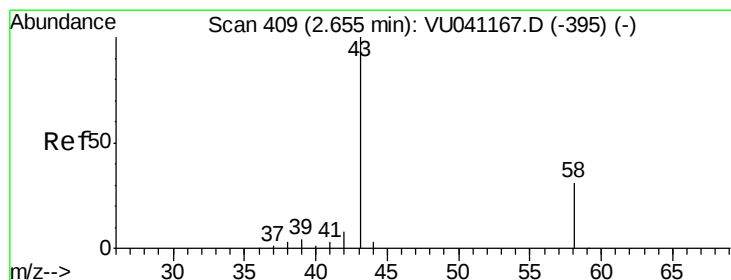
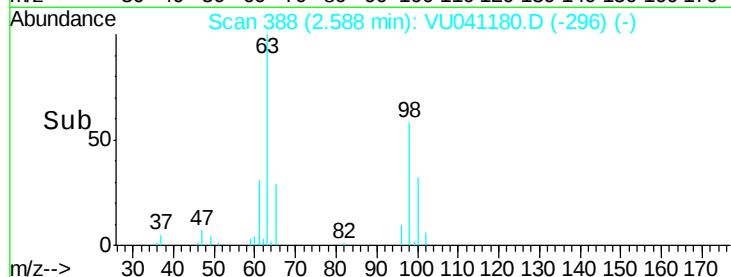
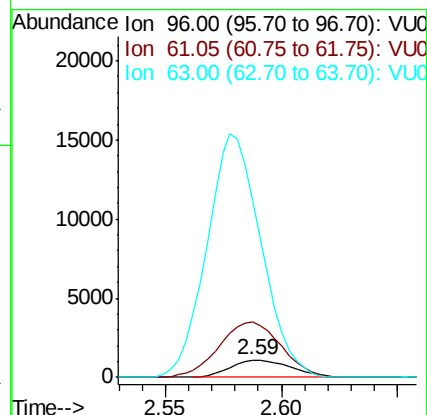
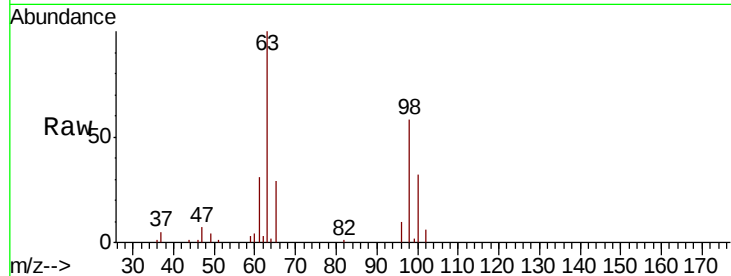
Tot Ion: 96 Resp: 1981

Ion Ratio Lower Upper

96 100

61 317.5 134.3 249.5#

63 1015.2 95.0 176.4#



#13

Acetone

Concen: 0.942 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.01 min

Lab File: VU041180.D

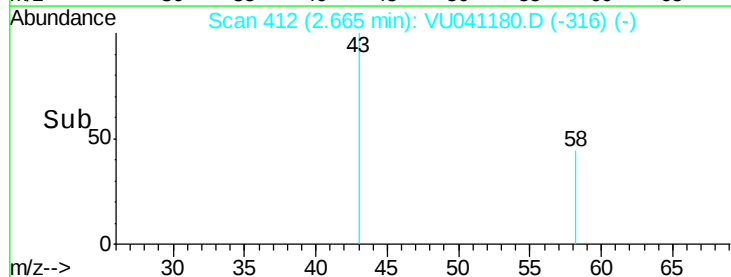
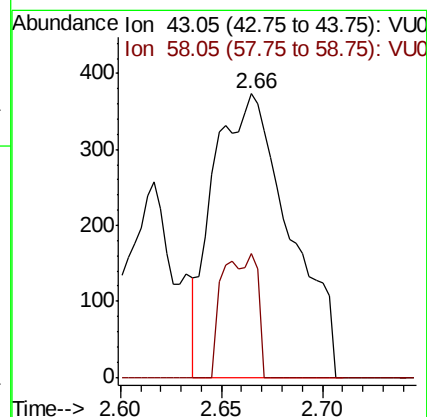
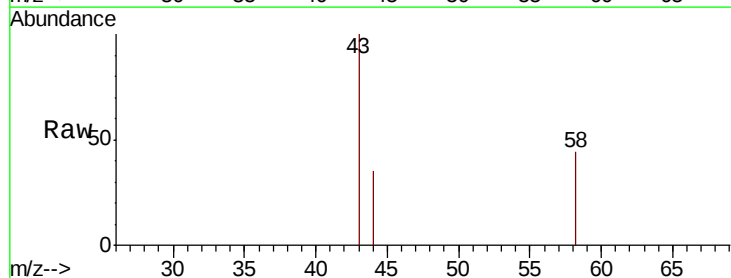
Acq: 10 Nov 2020 15:56

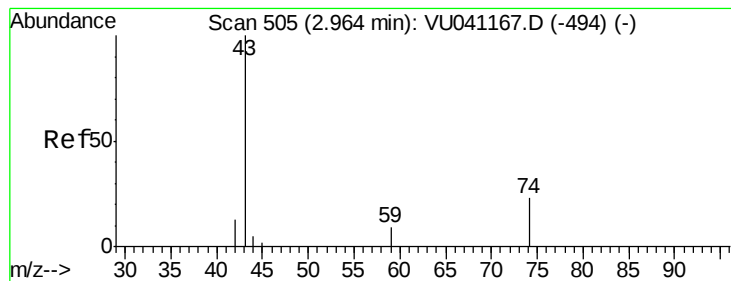
Tgt Ion: 43 Resp: 974

Ion Ratio Lower Upper

43 100

58 11.3 0.0 25.4





#15

Methvl Acetate

Concen: 2.989 ug/L

RT: 3.06 min Scan# 534

Delta R.T. 0.09 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

Instrument :

MSVOA_U

ClientSampleId :

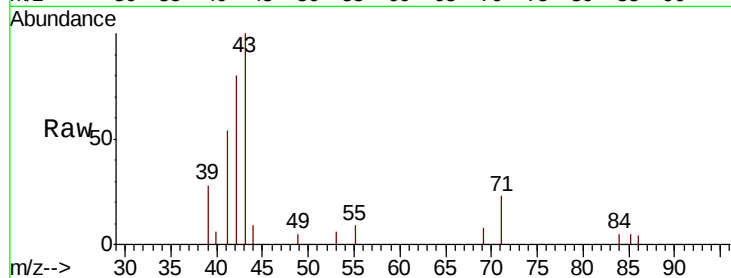
GB0W6

Tot Ion: 43 Resp: 7074

Ion Ratio Lower Upper

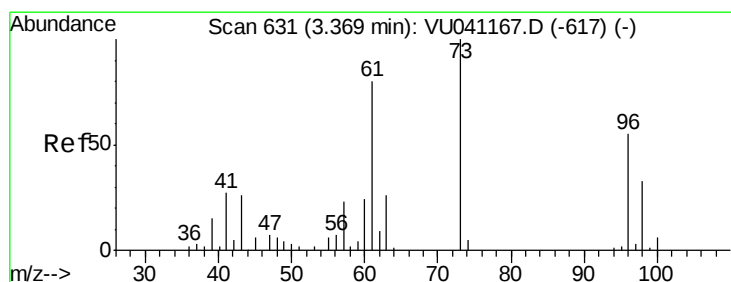
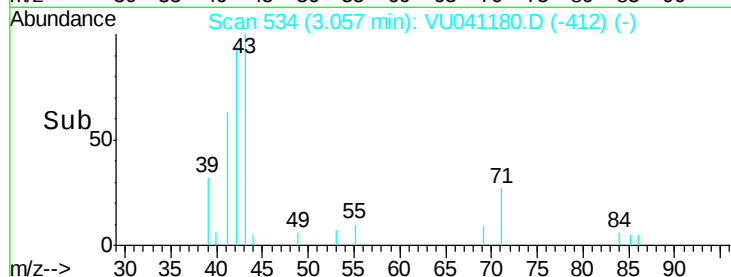
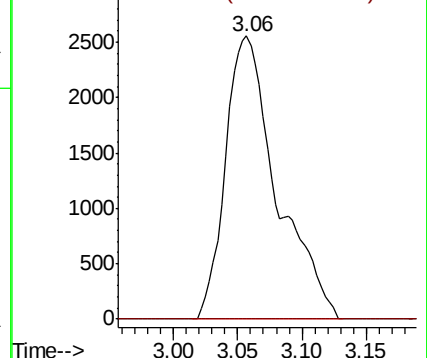
43 100

74 0.0 18.3 27.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#18

trans-1,2-Dichloroethene

Concen: 3.534 ug/L

RT: 3.37 min Scan# 631

Delta R.T. -0.00 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

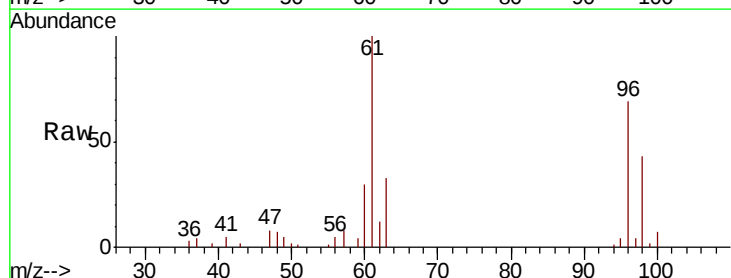
Tgt Ion: 96 Resp: 13876

Ion Ratio Lower Upper

96 100

61 144.1 110.9 205.9

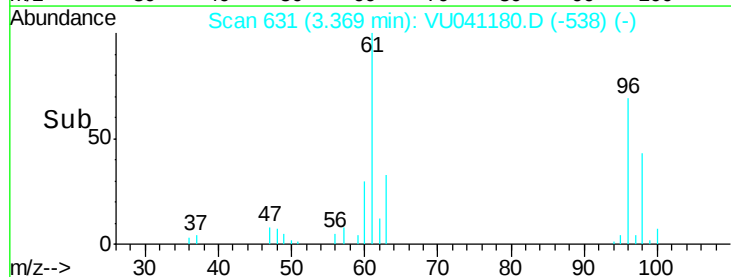
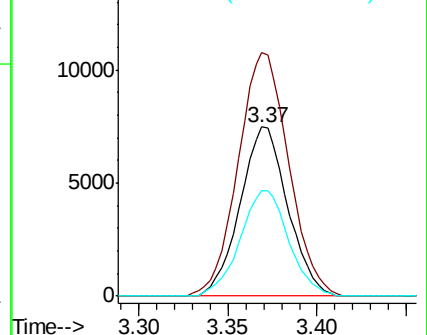
98 62.1 45.4 84.2

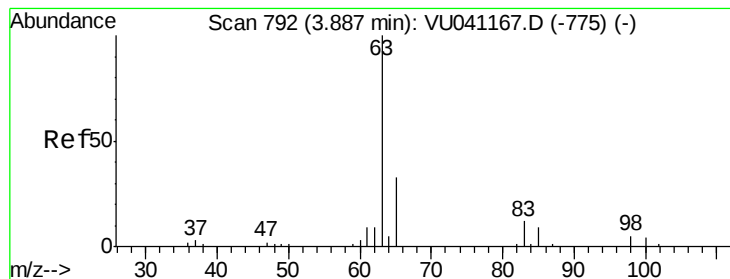


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 0.324 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

Instrument :

MSVOA_U

ClientSampled :

GB0W6

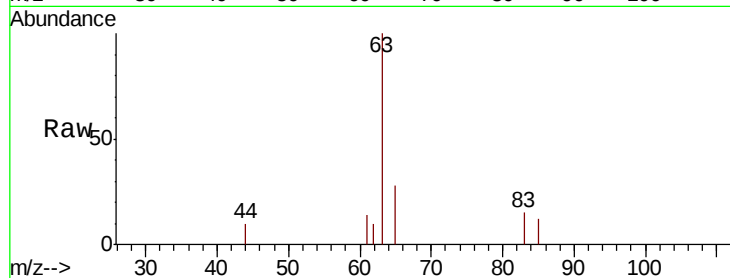
Tot Ion: 63 Resp: 2541

Ion Ratio Lower Upper

63 100

65 27.6 21.3 39.6

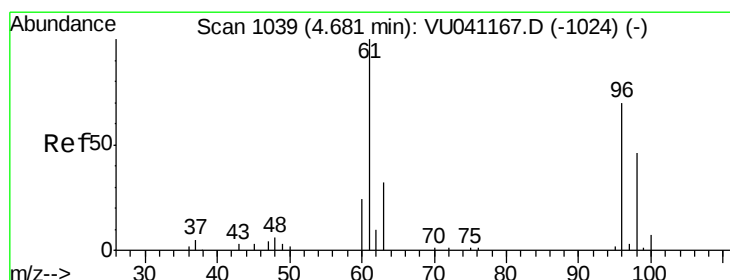
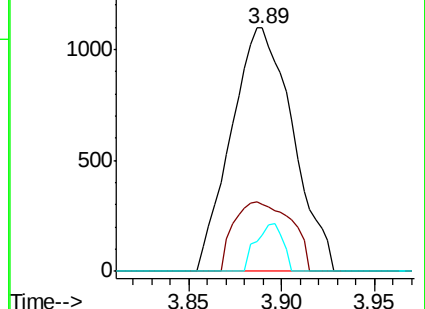
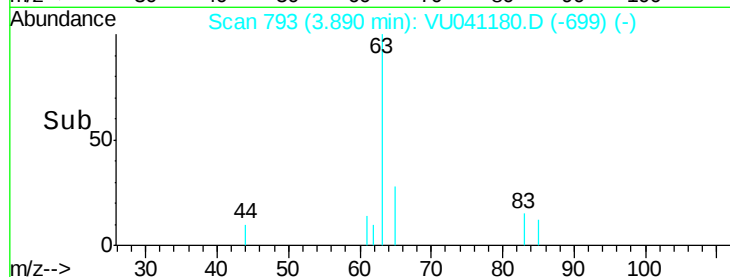
83 14.8 8.8 16.3



Abundance Ion 63.10 (62.80 to 63.80): VU041180.D (-699) (-)

Ion 65.10 (64.80 to 65.80): VU041180.D (-699) (-)

Ion 83.05 (82.75 to 83.75): VU041180.D (-699) (-)



#22

cis-1,2-Dichloroethene

Concen: 246.301 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

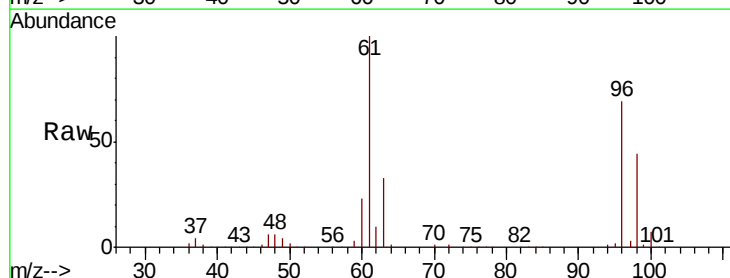
Tgt Ion: 96 Resp: 997421

Ion Ratio Lower Upper

96 100

61 145.0 97.2 180.4

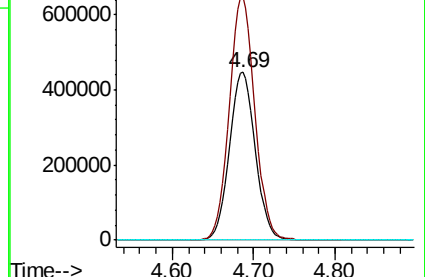
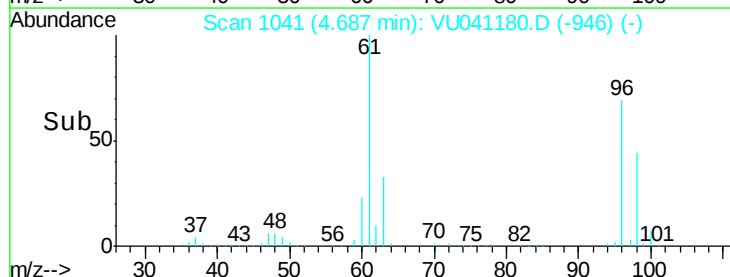
68 0.0 0.0 0.0

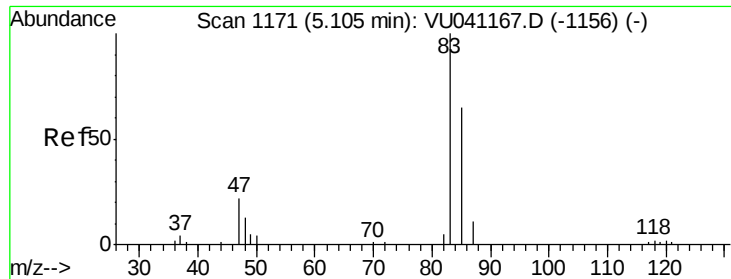


Abundance Ion 96.00 (95.70 to 96.70): VU041180.D (-946) (-)

Ion 61.05 (60.75 to 61.75): VU041180.D (-946) (-)

Ion 68.15 (67.85 to 68.85): VU041180.D (-946) (-)

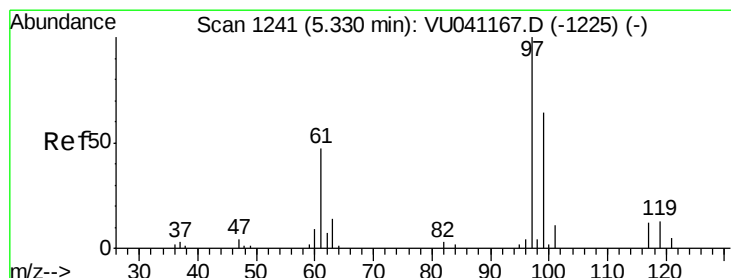
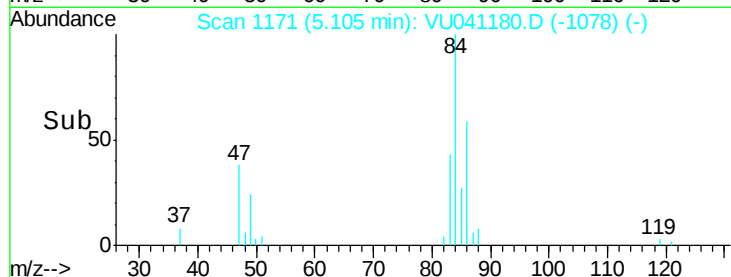
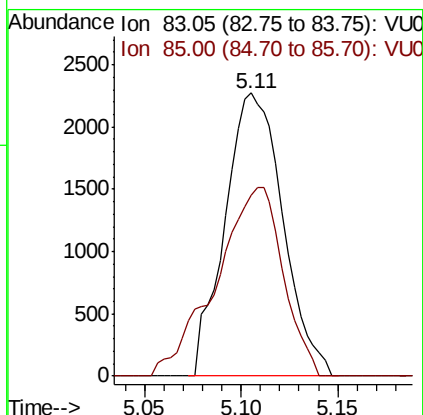
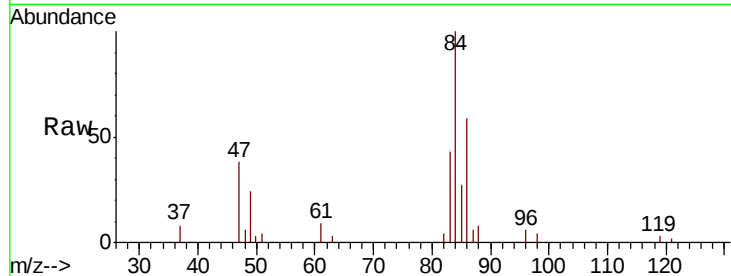




#25
Chloroform
Concen: 0.601 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU041180.D
Acq: 10 Nov 2020 15:56

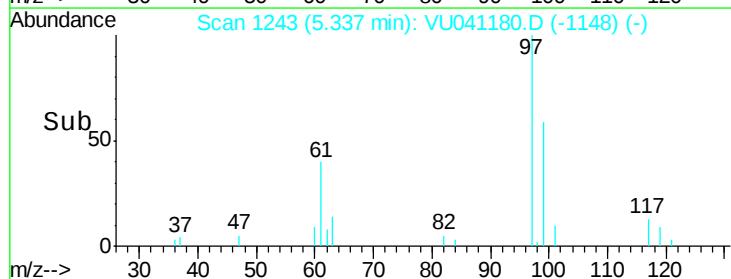
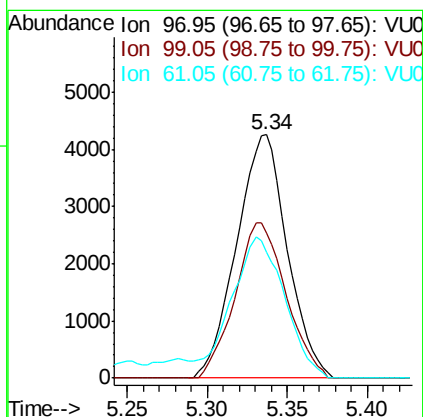
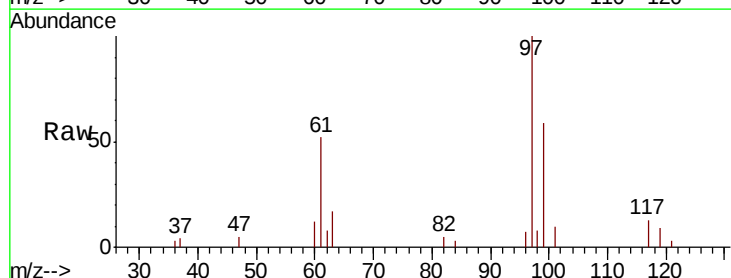
Instrument :
MSVOA_U
ClientSampleId :
GB0W6

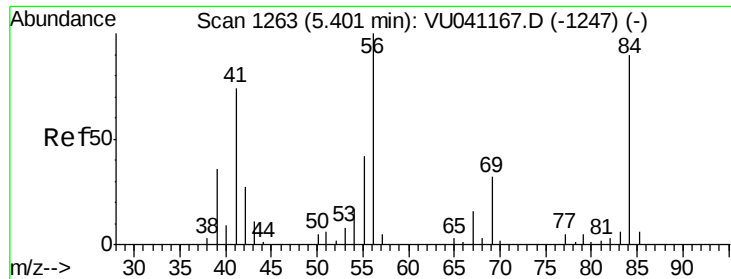
Tot Ion: 83 Resp: 4731
Ion Ratio Lower Upper
83 100
85 64.1 46.1 85.7



#29
1,1,1-Trichloroethane
Concen: 1.401 ug/L
RT: 5.34 min Scan# 1243
Delta R.T. 0.01 min
Lab File: VU041180.D
Acq: 10 Nov 2020 15:56

Tgt Ion: 97 Resp: 9219
Ion Ratio Lower Upper
97 100
99 63.9 53.4 80.0
61 61.5 41.6 62.4

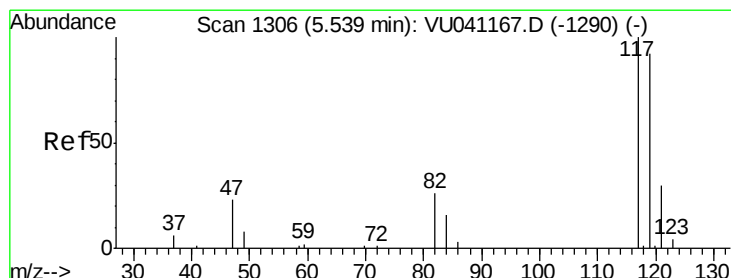
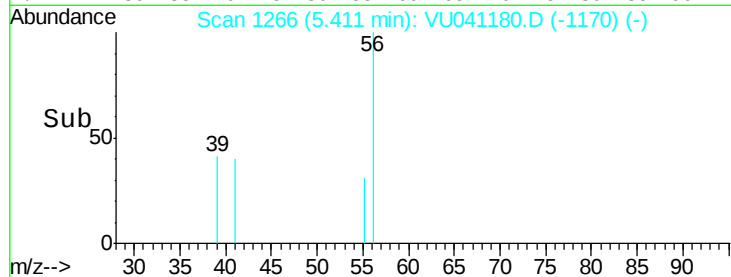
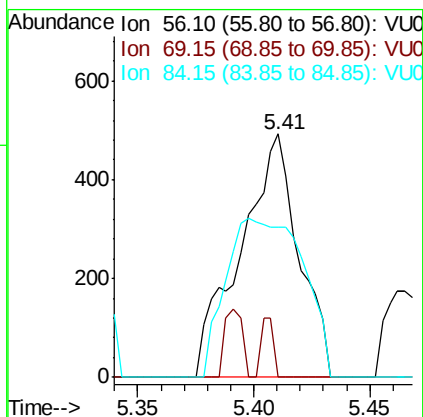
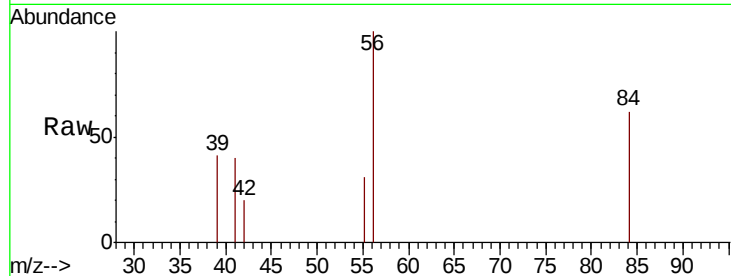




#30
Cyclohexane
Concen: 0.133 ug/L
RT: 5.41 min Scan# 1266
Delta R.T. 0.01 min
Lab File: VU041180.D
Acq: 10 Nov 2020 15:56

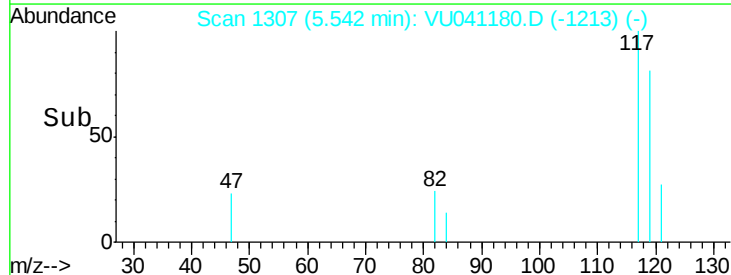
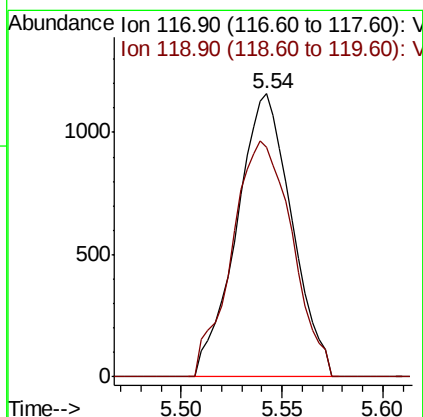
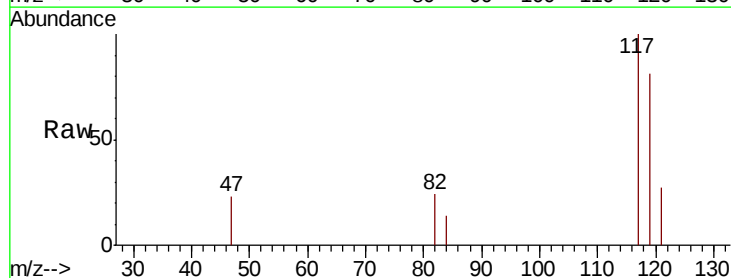
Instrument :
MSVOA_U
ClientSampleId :
GB0W6

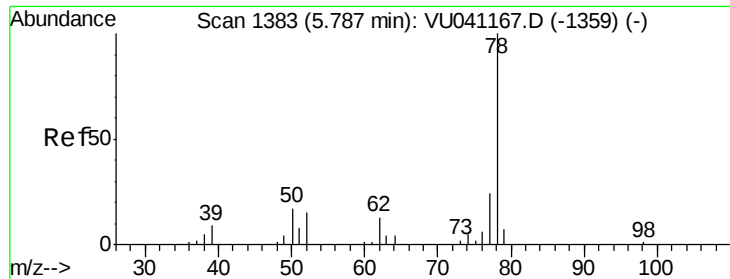
Tot Ion: 56 Resp: 860
Ion Ratio Lower Upper
56 100
69 5.3 22.8 34.2#
84 0.0 63.6 95.4#



#31
Carbon tetrachloride
Concen: 0.380 ug/L
RT: 5.54 min Scan# 1307
Delta R.T. 0.00 min
Lab File: VU041180.D
Acq: 10 Nov 2020 15:56

Tgt Ion: 117 Resp: 2213
Ion Ratio Lower Upper
117 100
119 91.1 76.1 114.1

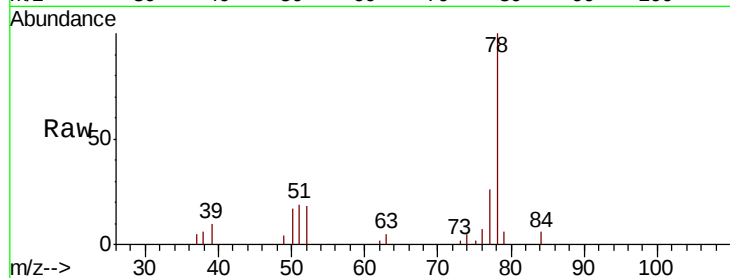




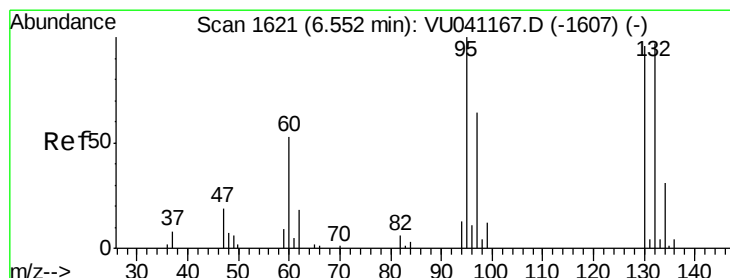
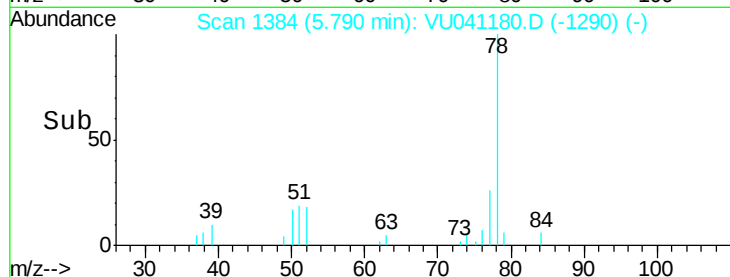
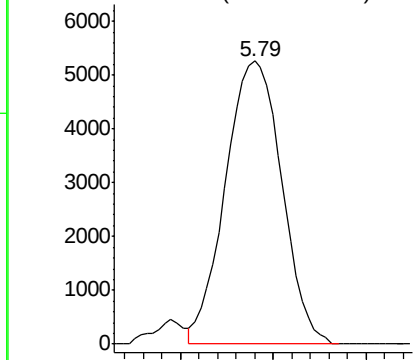
#33
Benzene
Concen: 0.689 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU041180.D
Acq: 10 Nov 2020 15:56

Instrument :
MSVOA_U
ClientSampled :
GB0W6

Tgt Ion: 78 Resp: 11082



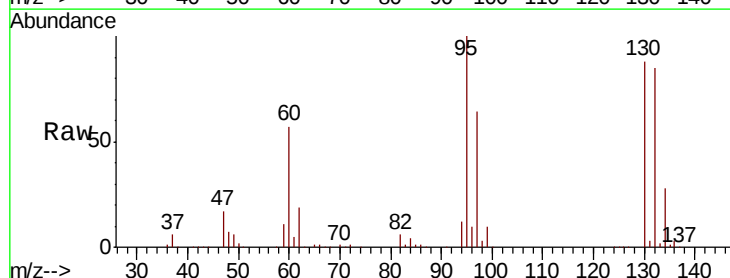
Abundance Ion 78.10 (77.80 to 78.80): VU0



#34
Trichloroethene
Concen: 607.677 ug/L
RT: 6.56 min Scan# 1623
Delta R.T. 0.01 min
Lab File: VU041180.D
Acq: 10 Nov 2020 15:56

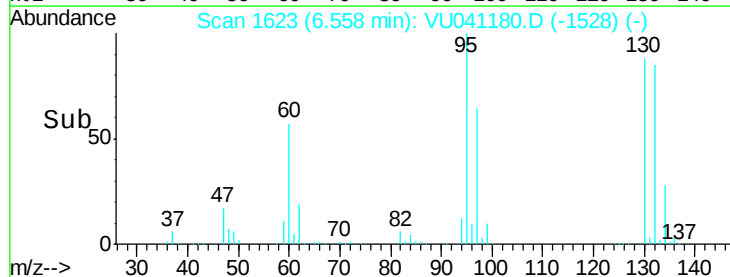
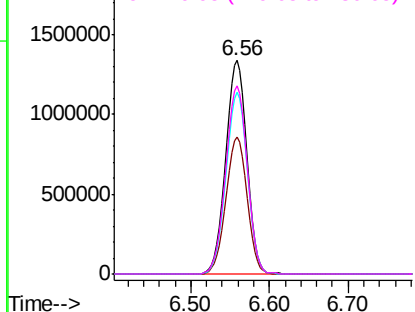
Tgt Ion: 95 Resp: 2485663

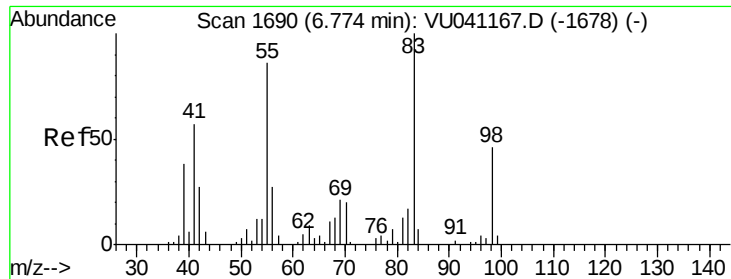
Ion	Ratio	Lower	Upper
95	100		
97	64.2	45.6	84.6
132	85.0	64.8	120.4
130	88.0	64.8	120.4



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): VU0
Ion 129.95 (129.65 to 130.65): VU0

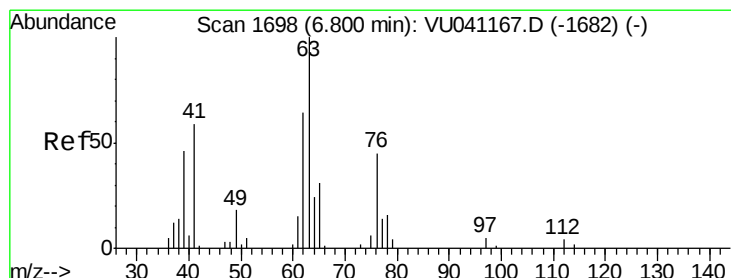
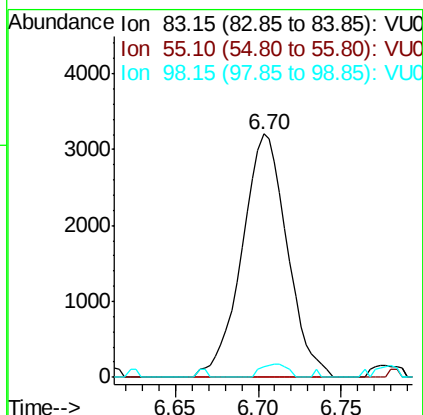
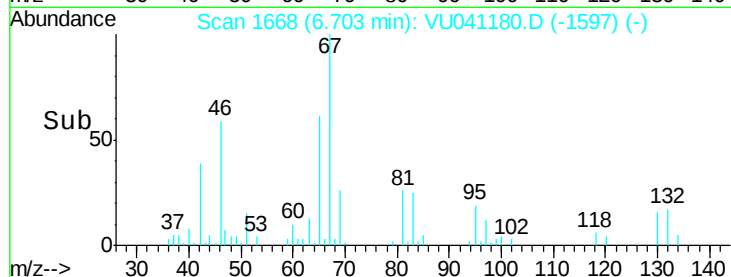
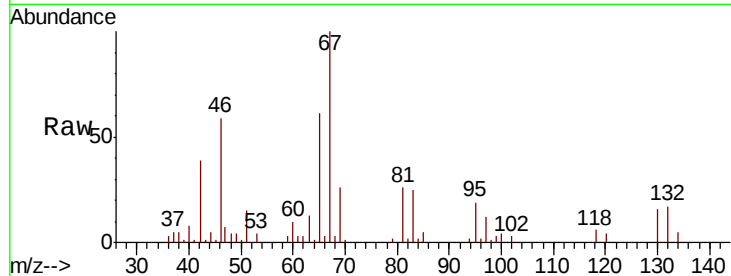




#35
Methylcyclohexane
Concen: 0.993 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041180.D
Acq: 10 Nov 2020 15:56

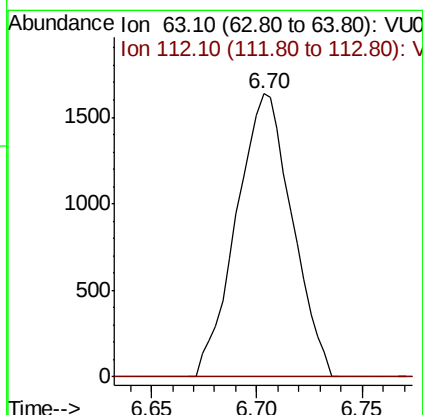
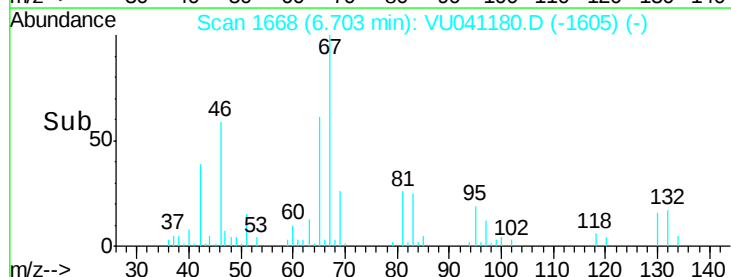
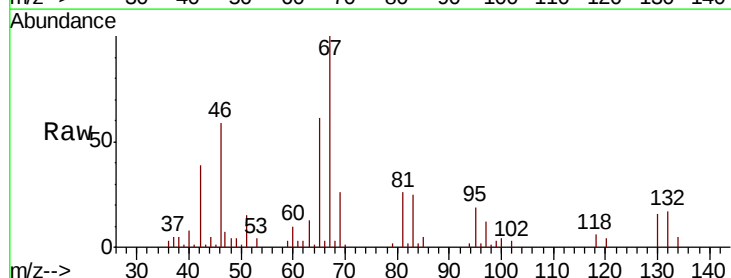
Instrument :
MSVOA_U
ClientSampleId :
GB0W6

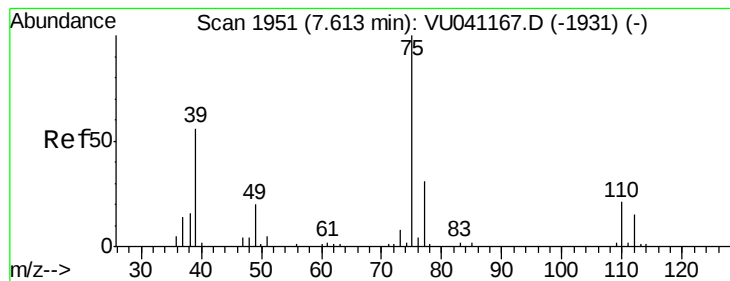
Tot Ion: 83 Resp: 6058
Ion Ratio Lower Upper
83 100
55 0.6 72.0 108.0#
98 0.0 36.6 55.0#



#37
1,2-Dichloropropane
Concen: 0.691 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU041180.D
Acq: 10 Nov 2020 15:56

Tgt Ion: 63 Resp: 3007
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#





#39

cis-1,3-Dichloropropene

Concen: 0.099 ug/L

RT: 7.58 min Scan# 1940

Delta R.T. -0.04 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

Instrument :

MSVOA_U

ClientSampleId :

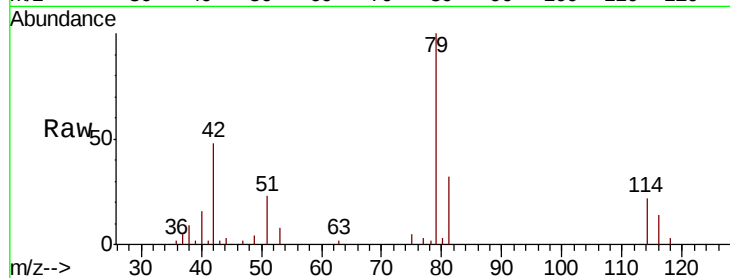
GB0W6

Tot Ion: 75 Resp: 593

Ion Ratio Lower Upper

75 100

77 60.8 22.7 42.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

7.58

400

300

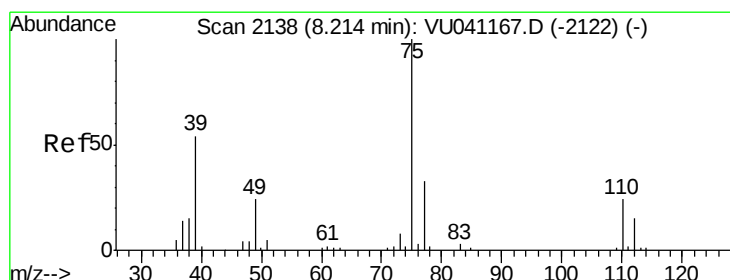
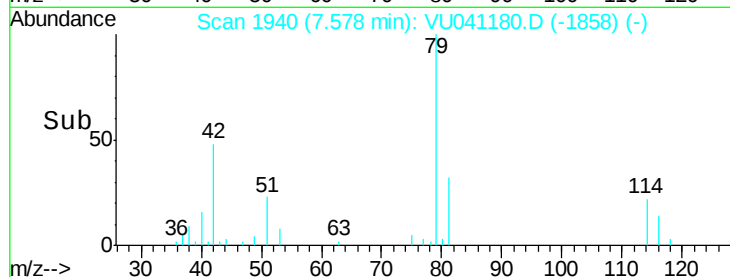
200

100

0

7.54 7.56 7.58 7.60

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.081 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041180.D

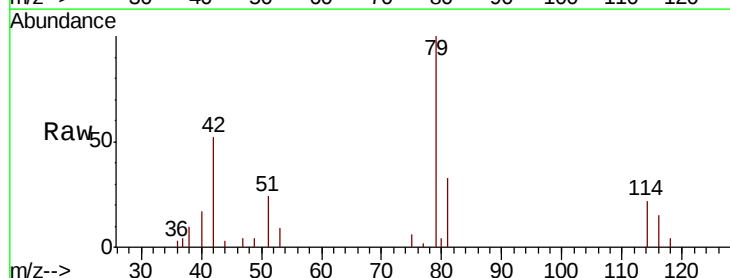
Acq: 10 Nov 2020 15:56

Tgt Ion: 75 Resp: 454

Ion Ratio Lower Upper

75 100

77 35.6 23.3 43.3



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.19

300

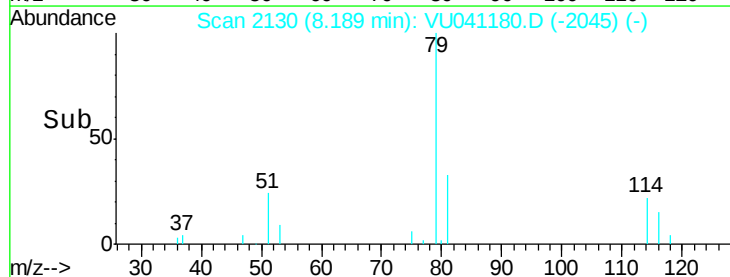
200

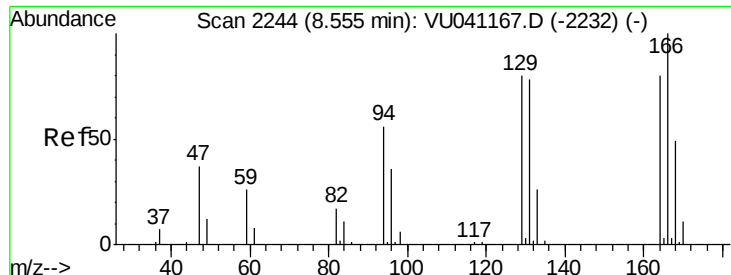
100

0

8.16 8.18 8.20 8.22

Time-->





#47

Tetrachloroethene

Concen: 6.166 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

Instrument :

MSVOA_U

ClientSampled :

GB0W6

Tot Ion:164 Resp: 18545

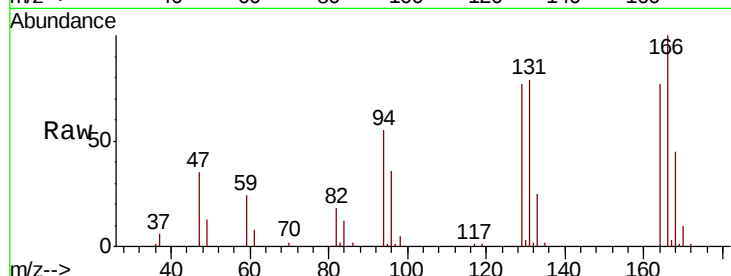
Ion Ratio Lower Upper

164 100

129 99.7 70.3 130.7

131 102.7 70.8 131.4

166 130.3 92.0 170.8

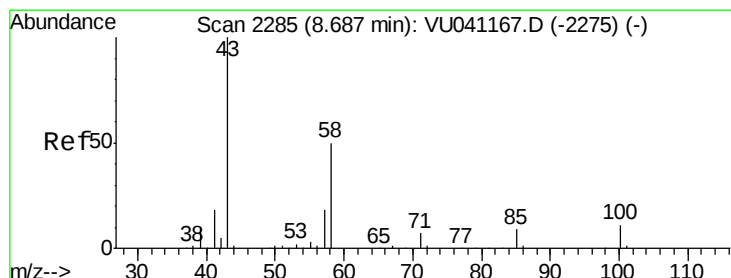
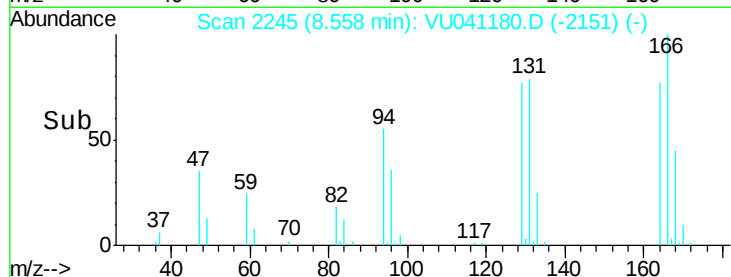
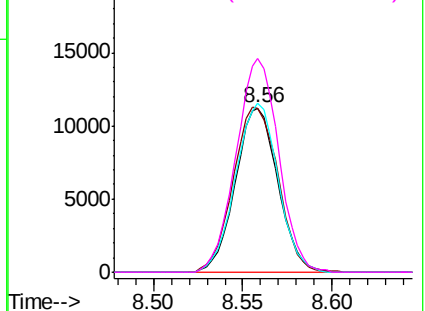


Abundance Ion 163.90 (163.60 to 164.60): V

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: 3.441 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

Tgt Ion: 43 Resp: 8984

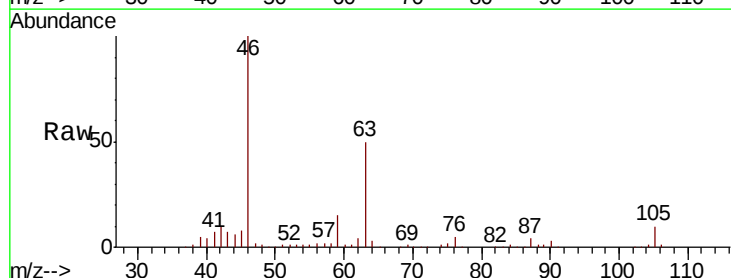
Ion Ratio Lower Upper

43 100

58 26.7 41.4 62.2#

57 28.0 14.6 21.8#

100 0.0 8.3 12.5#

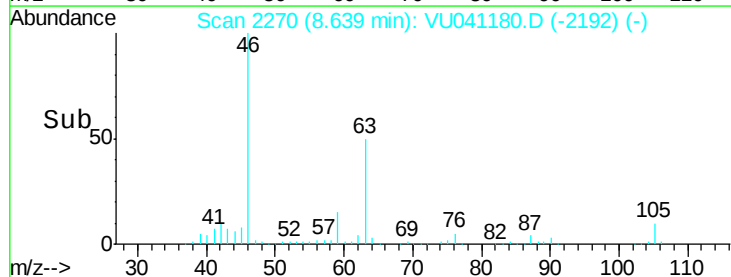
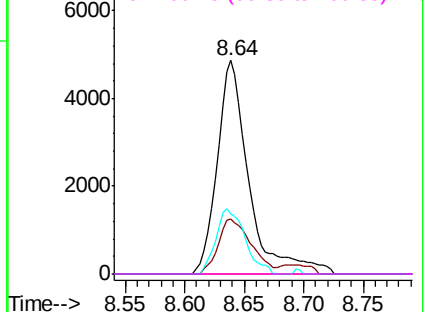


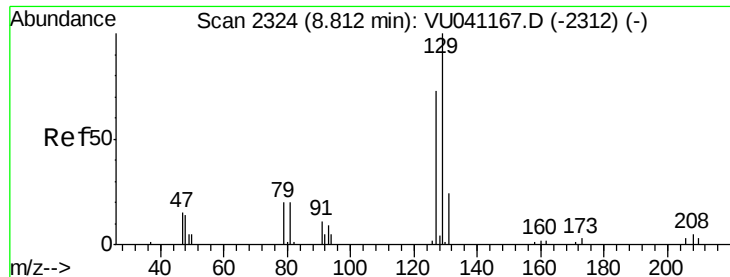
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 5.253 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

Instrument :

MSVOA_U

ClientSampleId :

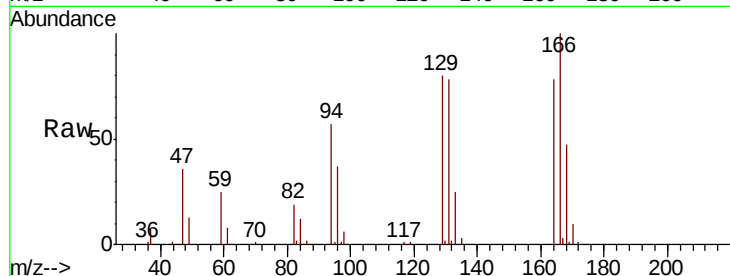
GB0W6

Tot Ion:129 Resp: 19750

Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

12000

10000

8000

6000

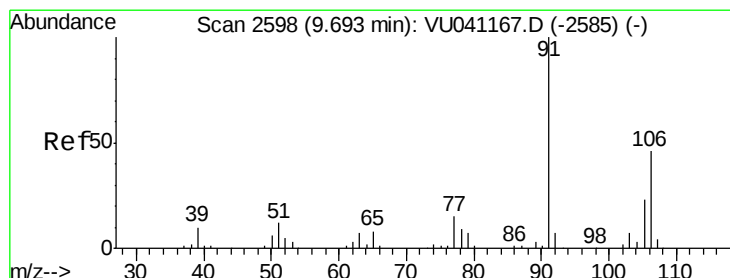
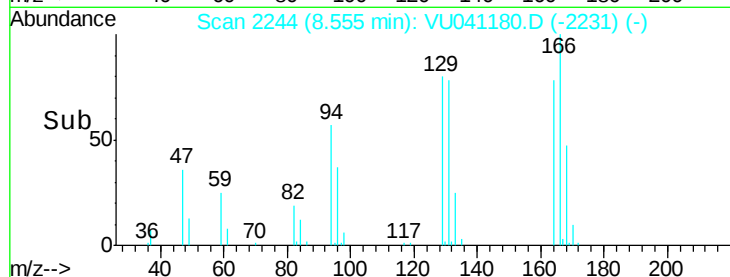
4000

2000

0

8.50 8.55 8.60

Time-->



#53

m,p-Xylene

Concen: 0.145 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU041180.D

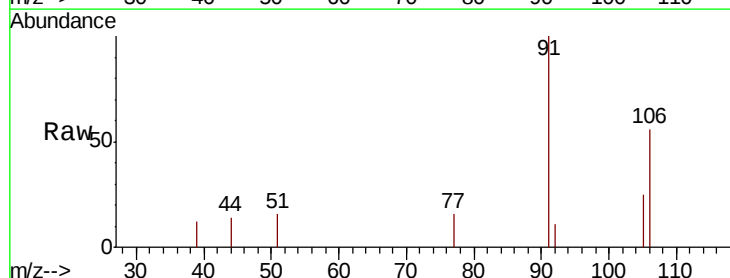
Acq: 10 Nov 2020 15:56

Tgt Ion:106 Resp: 909

Ion Ratio Lower Upper

106 100

91 178.9 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

9.70

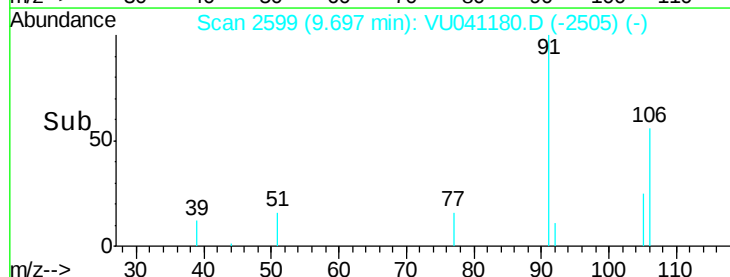
1000

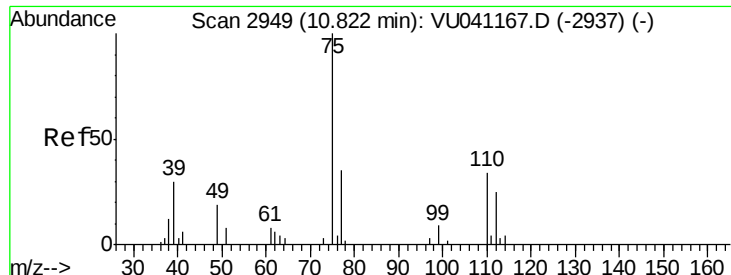
500

0

9.66 9.68 9.70 9.72 9.74

Time-->





#59

1,2,3-Trichloropropane

Concen: 1.006 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041180.D

Acq: 10 Nov 2020 15:56

Instrument :

MSVOA_U

ClientSampleId :

GB0W6

Tot Ion: 75 Resp: 3262

Ion Ratio Lower Upper

75 100

77 37.3 25.7 38.5

