

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122320\
 Data File : VU041793.D
 Acq On : 23 Dec 2020 19:44
 Operator : SY/MD
 Sample : L5185-15
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4T1

Quant Time: Dec 24 01:14:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 24 01:08:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	131272	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	122606	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	53187	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	38335	3.74	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.80%
7) Chloroethane-d5	1.92	69	42143	5.30	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.00%
11) 1,1-Dichloroethene-d2	2.58	63	60097	3.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.60%
20) 2-Butanone-d5	4.65	46	164247	55.72	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.44%
24) Chloroform-d	5.08	84	89113	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
26) 1,2-Dichloroethane-d4	5.72	65	51727	5.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.80%
32) Benzene-d6	5.74	84	166024	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.70	67	57602	5.23	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.60%
41) Toluene-d8	7.90	98	127863	4.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.80%
43) trans-1,3-Dichloropropene-	8.19	79	20019	4.05	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.00%
46) 2-Hexanone-d5	8.64	63	133660	49.40	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.80%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	47593	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	47470	5.02	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.53	50	740	0.068	ug/L	84
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	532	0.059	ug/L #	22
12) 1,1-Dichloroethene	2.58	96	686	0.077	ug/L #	1
13) Acetone	2.66	43	2137	1.140	ug/L	66
17) Methyl tert-butyl Ether	3.38	73	20764	0.874	ug/L	99
19) 1,1-Dichloroethane	3.89	63	2905	0.169	ug/L	99
22) cis-1,2-Dichloroethene	4.68	96	8574	0.842	ug/L	96
25) Chloroform	5.11	83	8914	0.514	ug/L	94
27) 1,2-Dichloroethane	5.74	62	873	0.074	ug/L #	73
29) 1,1,1-Trichloroethane	5.34	97	1296	0.092	ug/L #	44
34) Trichloroethene	6.56	95	2613701	265.264	ug/L	98
35) Methylcyclohexane	6.70	83	12541	0.787	ug/L #	18
37) 1,2-Dichloropropane	6.70	63	6379	0.636	ug/L #	88
39) cis-1,3-Dichloropropene	7.58	75	1181	0.079	ug/L	90
42) Toluene	7.97	91	2519	0.062	ug/L	100
44) trans-1,3-Dichloropropene	8.18	75	759	0.057	ug/L #	71
47) Tetrachloroethene	8.56	164	42557	6.170	ug/L	97

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Quant Time: Dec 24 01:14:15 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 24 01:08:18 2020
Response via : Initial Calibration

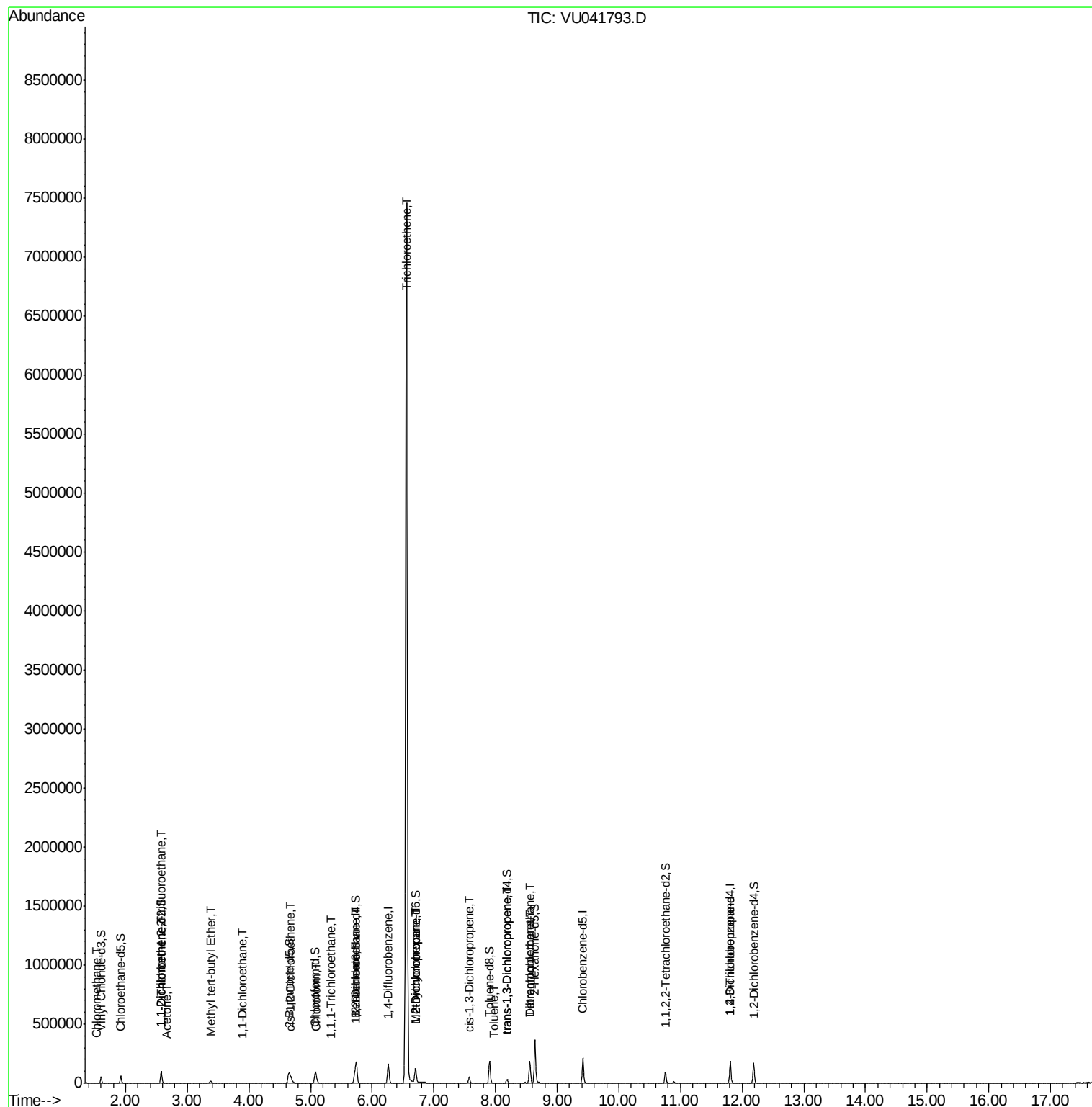
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.56	129	41450	4.865	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	5910	0.785	ug/L	99

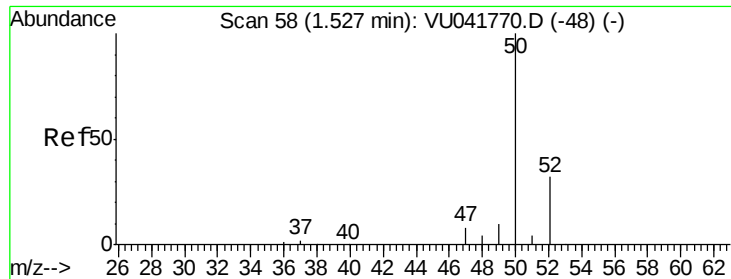
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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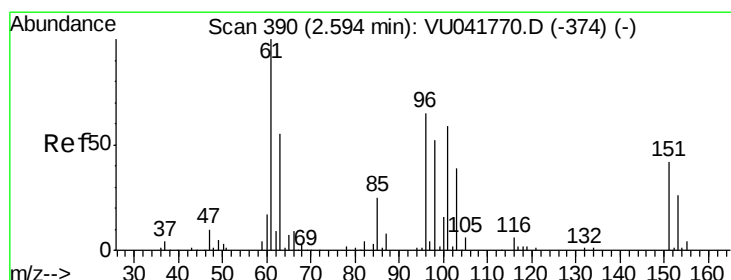
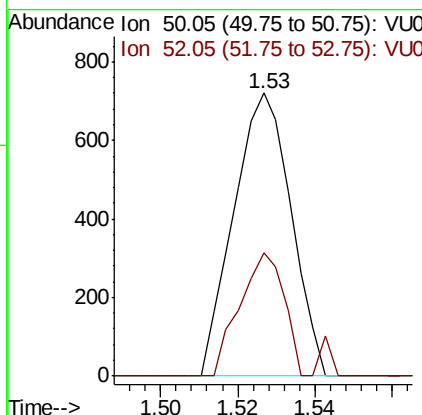
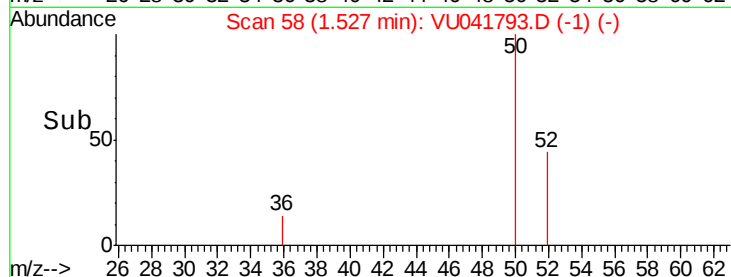
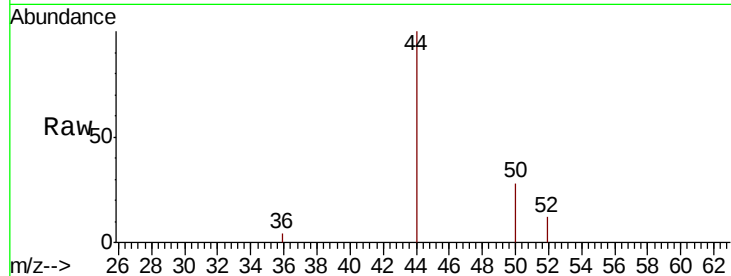




#3
Chloromethane
Concen: 0.068 ug/L
RT: 1.53 min Scan# 58
Delta R.T. 0.00 min
Lab File: VU041793.D
Acq: 23 Dec 2020 19:44

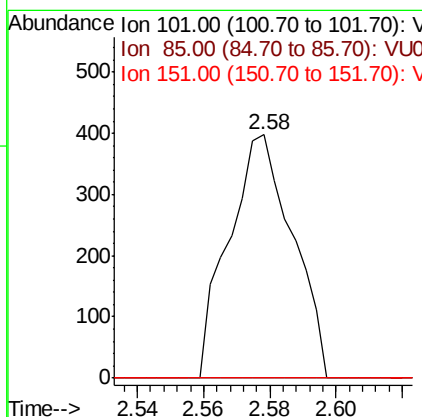
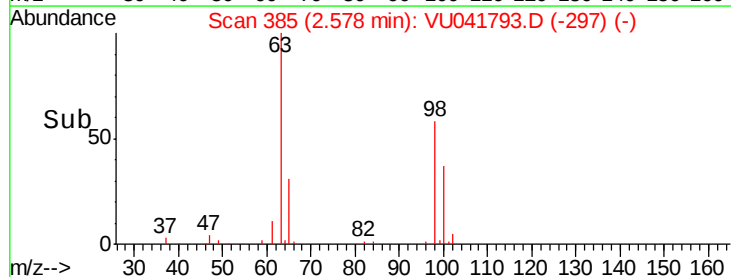
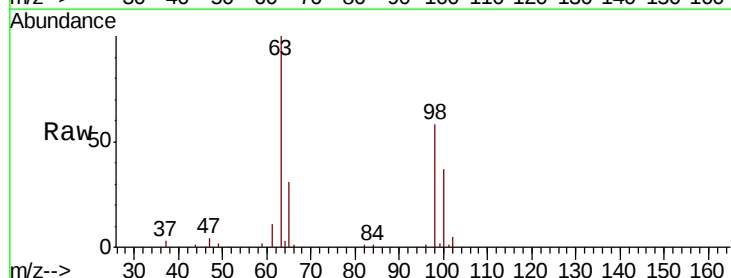
Instrument :
MSVOA_U
ClientSampleId :
BG4T1

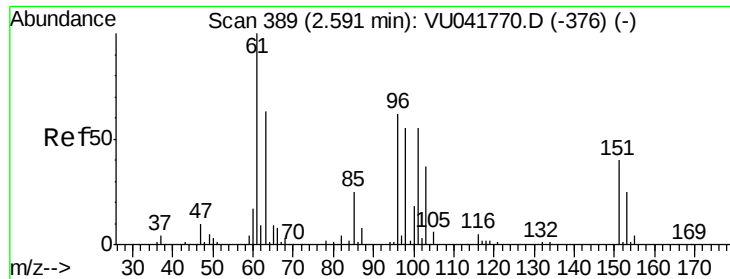
Tot Ion: 50 Resp: 740
Ion Ratio Lower Upper
50 100
52 43.7 24.1 44.8



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.059 ug/L
RT: 2.58 min Scan# 385
Delta R.T. -0.02 min
Lab File: VU041793.D
Acq: 23 Dec 2020 19:44

Tgt Ion: 101 Resp: 532
Ion Ratio Lower Upper
101 100
85 0.0 33.6 50.4#
151 0.0 56.2 84.4#

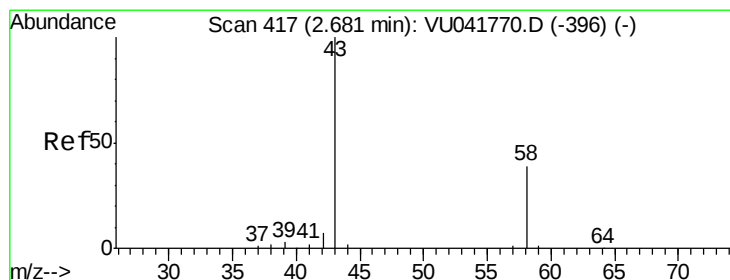
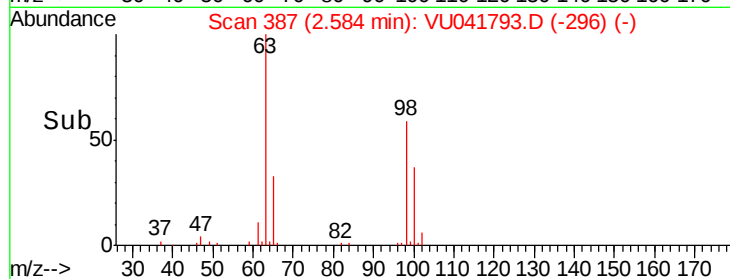
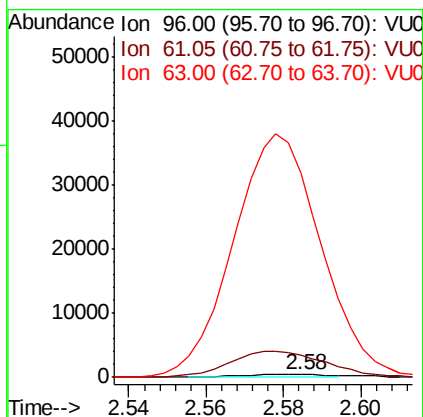
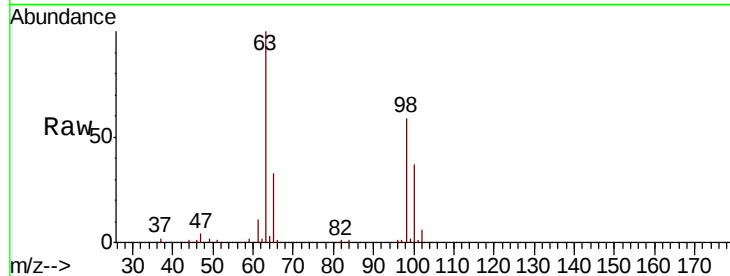




#12
 1,1-Dichloroethene
 Concen: 0.077 ug/L
 RT: 2.58 min Scan# 387
 Delta R.T. -0.01 min
 Lab File: VU041793.D
 Acq: 23 Dec 2020 19:44

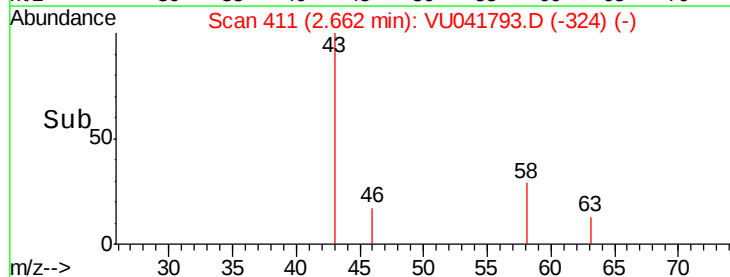
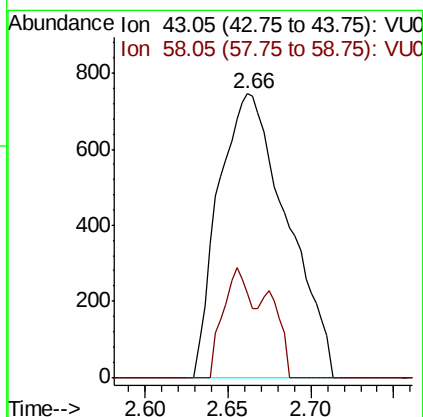
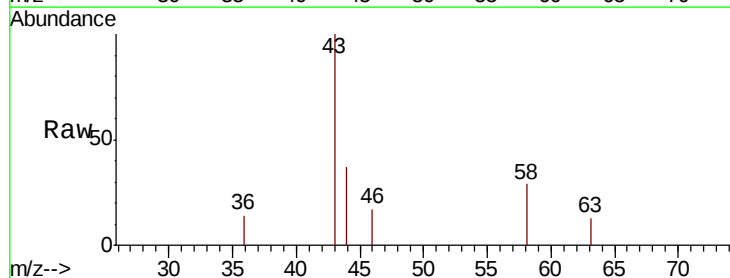
Instrument :
 MSVOA_U
 ClientSampleId :
 BG4T1

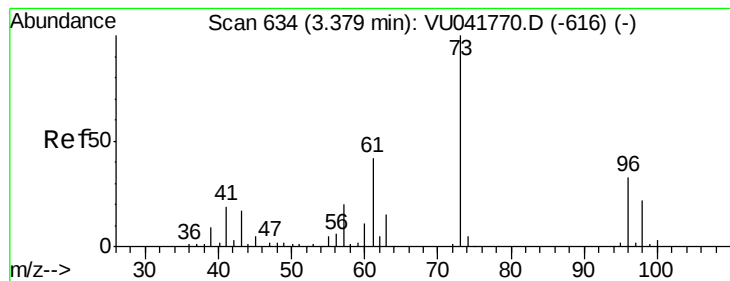
Tot Ion: 96 Resp: 686
 Ion Ratio Lower Upper
 96 100
 61 760.8 123.8 230.0#
 63 7067.3 81.0 150.4#



#13
 Acetone
 Concen: 1.140 ug/L
 RT: 2.66 min Scan# 411
 Delta R.T. -0.02 min
 Lab File: VU041793.D
 Acq: 23 Dec 2020 19:44

Tgt Ion: 43 Resp: 2137
 Ion Ratio Lower Upper
 43 100
 58 16.6 0.0 73.2



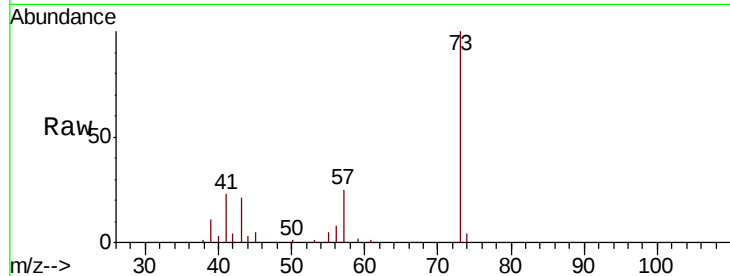


#17

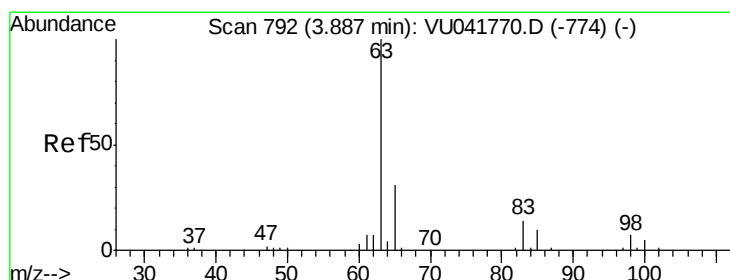
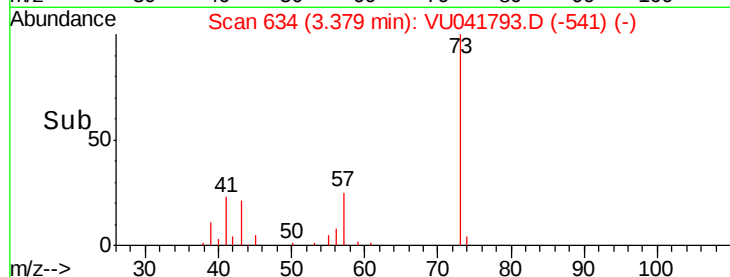
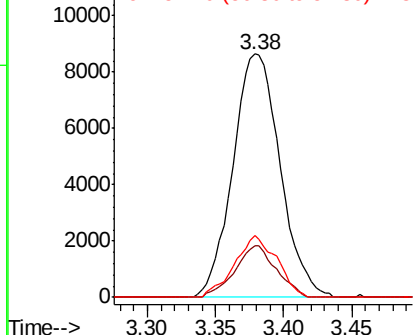
Methvl tert-butvl Ether
 Concen: 0.874 ug/L
 RT: 3.38 min Scan# 634
 Delta R.T. 0.00 min
 Lab File: VU041793.D
 Acq: 23 Dec 2020 19:44

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4T1

Tot Ion: 73 Resp: 20764
 Ion Ratio Lower Upper
 73 100
 43 18.6 14.7 22.1
 57 22.5 18.2 27.4



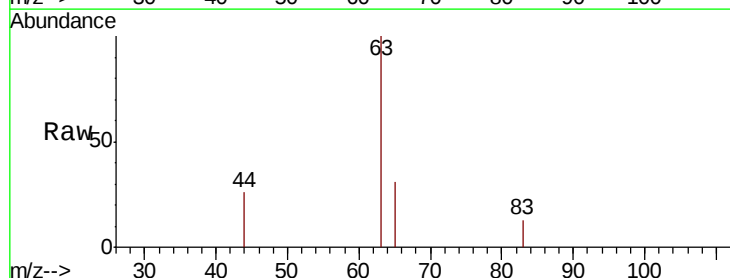
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



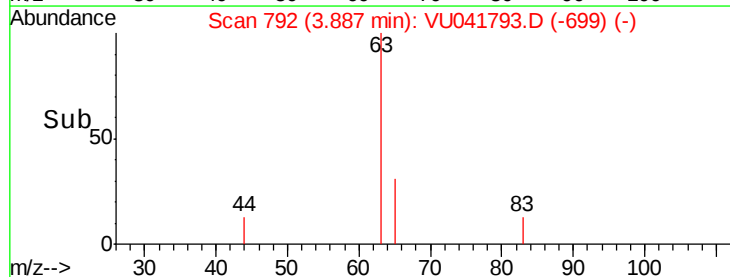
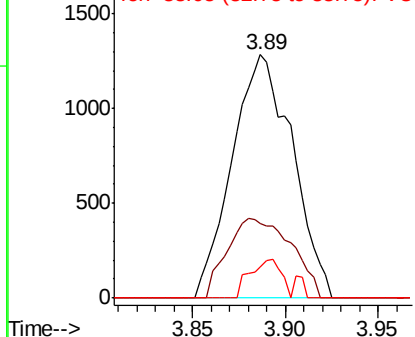
#19

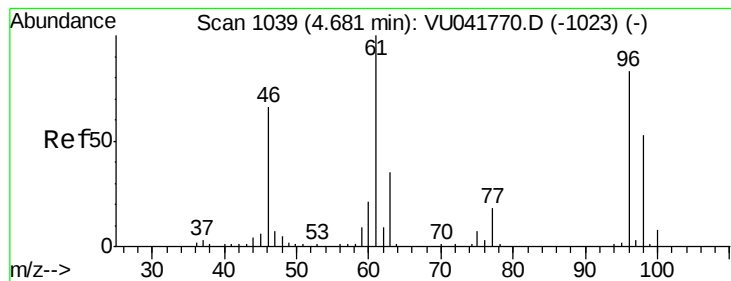
1,1-Dichloroethane
 Concen: 0.169 ug/L
 RT: 3.89 min Scan# 792
 Delta R.T. 0.00 min
 Lab File: VU041793.D
 Acq: 23 Dec 2020 19:44

Tgt Ion: 63 Resp: 2905
 Ion Ratio Lower Upper
 63 100
 65 30.7 21.3 39.6
 83 12.7 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 0.842 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041793.D

Acq: 23 Dec 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

BG4T1

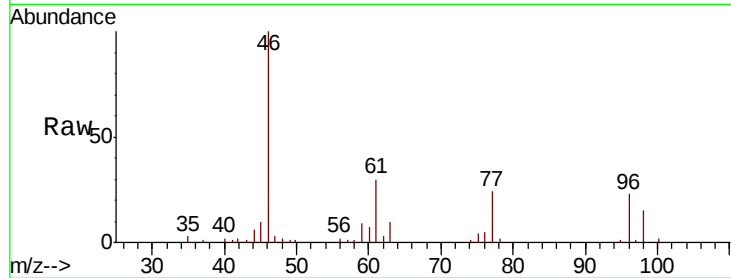
Tot Ion: 96 Resp: 8574

Ion Ratio Lower Upper

96 100

61 131.3 88.8 165.0

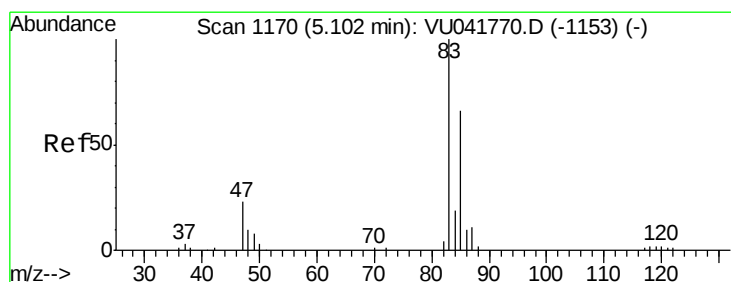
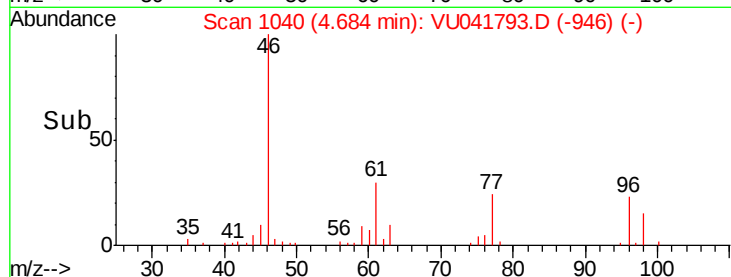
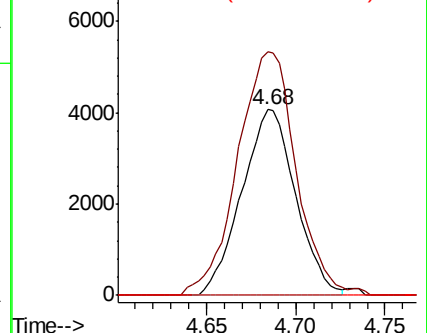
68 0.0 0.0 0.0



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: 0.514 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VU041793.D

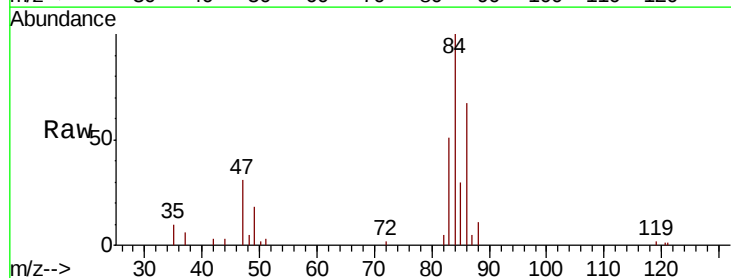
Acq: 23 Dec 2020 19:44

Tgt Ion: 83 Resp: 8914

Ion Ratio Lower Upper

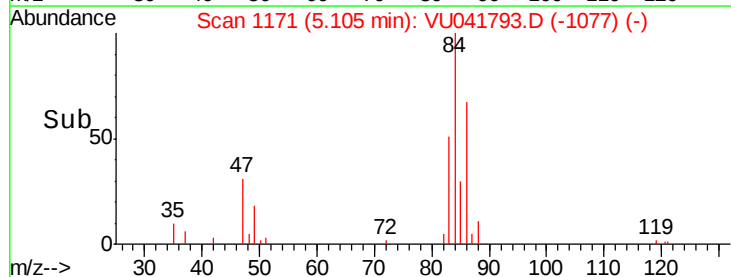
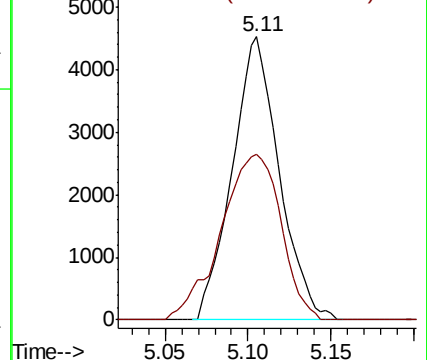
83 100

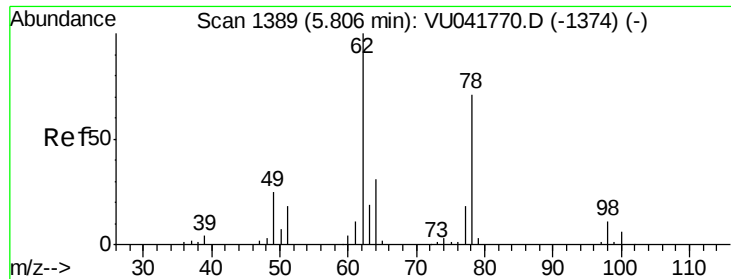
85 58.3 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

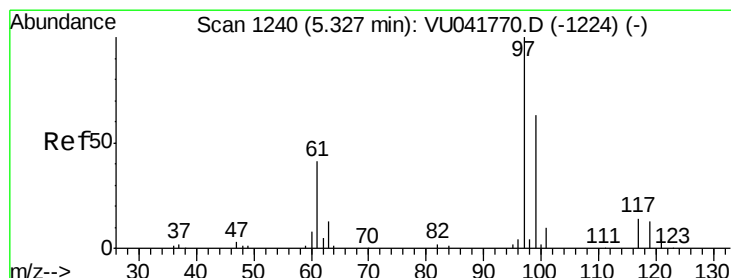
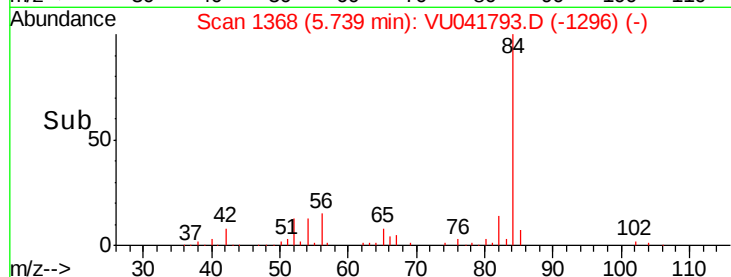
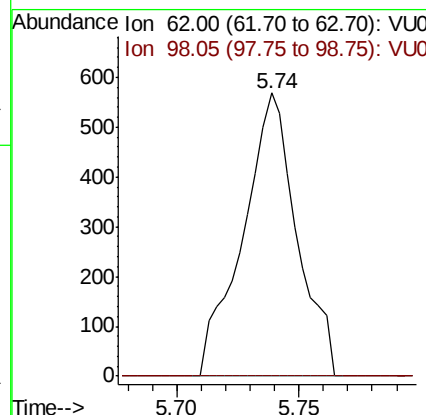
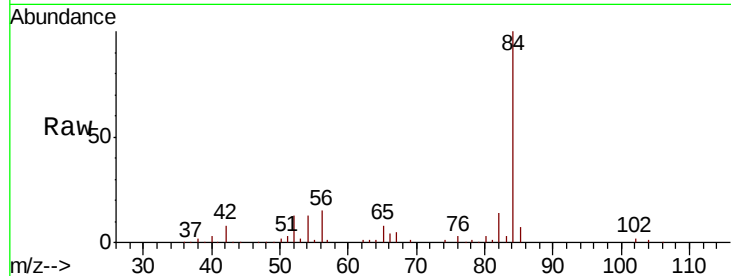




#27
 1,2-Dichloroethane
 Concen: 0.074 ug/L
 RT: 5.74 min Scan# 1368
 Delta R.T. -0.07 min
 Lab File: VU041793.D
 Acq: 23 Dec 2020 19:44

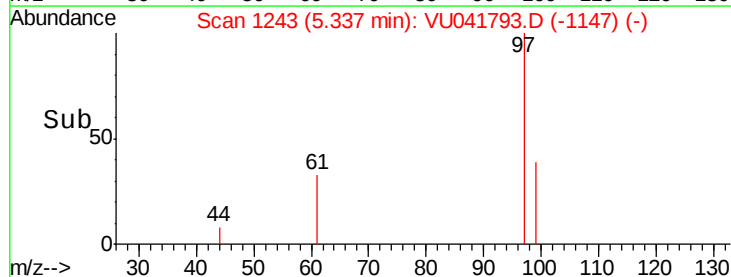
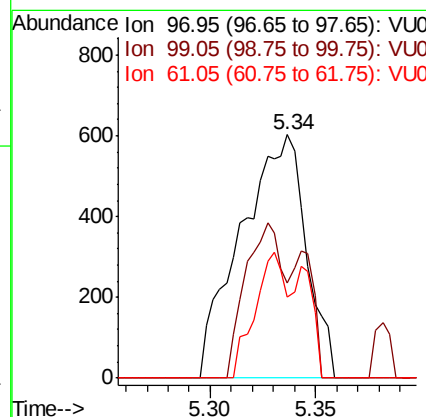
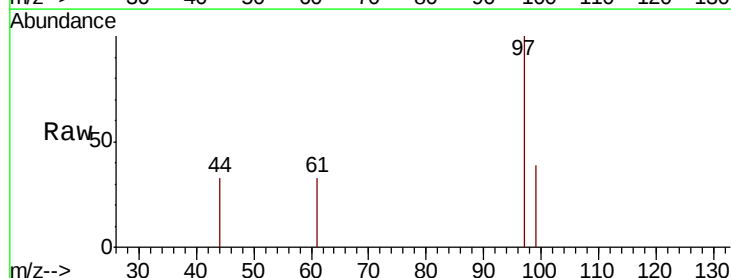
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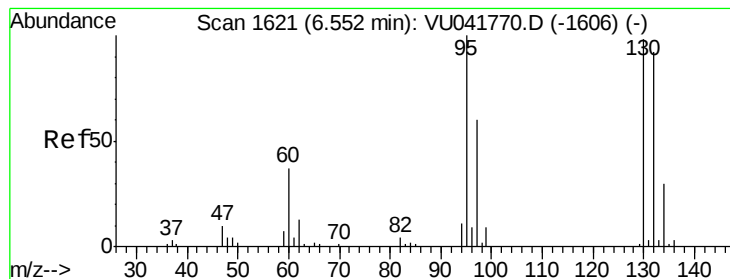
Tot Ion: 62 Resp: 873
 Ion Ratio Lower Upper
 62 100
 98 0.0 8.2 12.2#



#29
 1,1,1-Trichloroethane
 Concen: 0.092 ug/L
 RT: 5.34 min Scan# 1243
 Delta R.T. 0.01 min
 Lab File: VU041793.D
 Acq: 23 Dec 2020 19:44

Tgt Ion: 97 Resp: 1296
 Ion Ratio Lower Upper
 97 100
 99 16.4 51.3 76.9#
 61 13.7 36.5 54.7#





#34

Trichloroethene

Concen: 265.264 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU041793.D

Acq: 23 Dec 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

BG4T1

Tot Ion: 95 Resp: 2613701

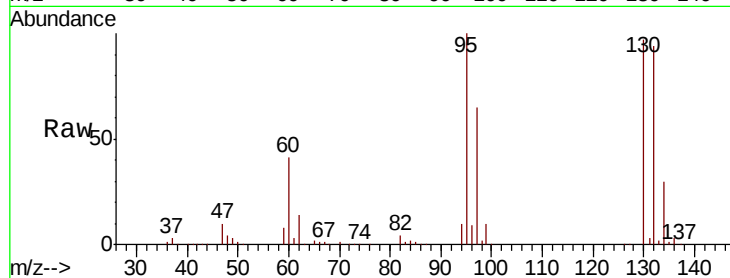
Ion Ratio Lower Upper

95 100

97 64.7 43.9 81.5

132 93.8 63.1 117.3

130 96.6 67.4 125.2

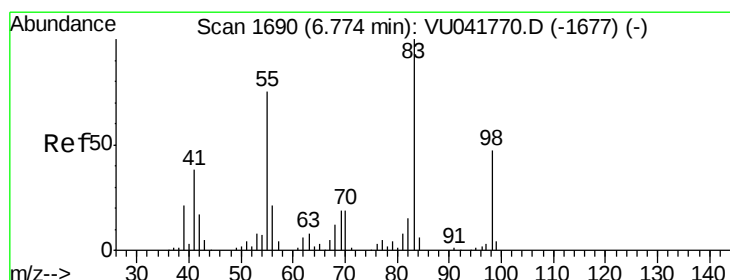
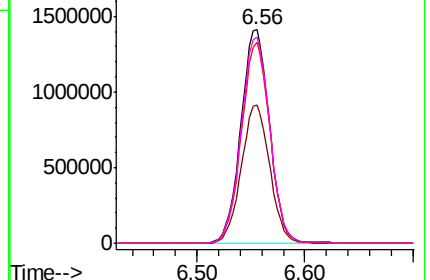
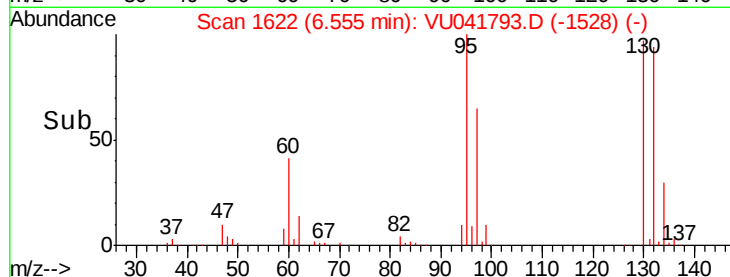


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.787 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU041793.D

Acq: 23 Dec 2020 19:44

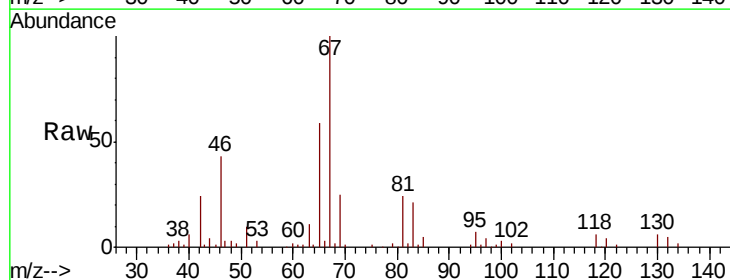
Tgt Ion: 83 Resp: 12541

Ion Ratio Lower Upper

83 100

55 0.0 61.2 91.8#

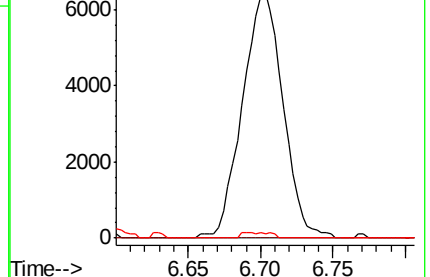
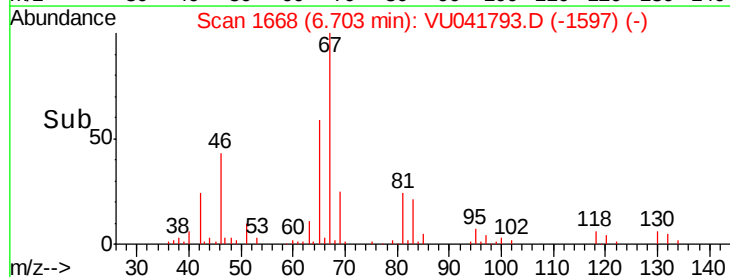
98 0.0 36.6 54.8#

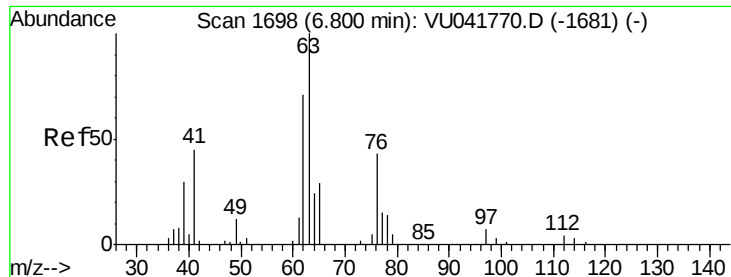


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

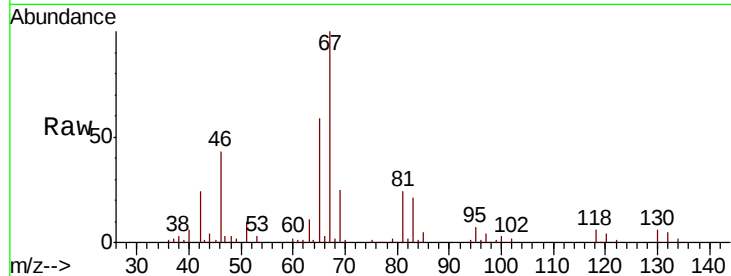




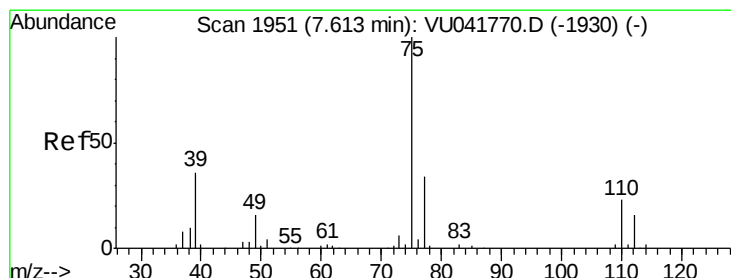
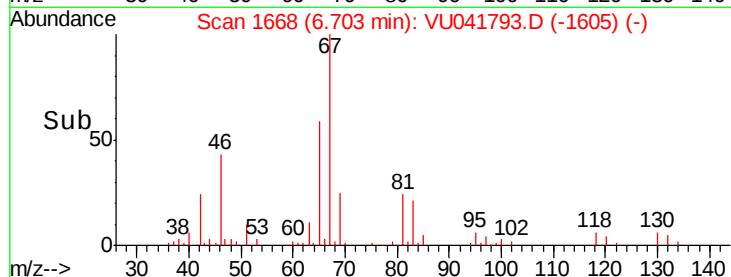
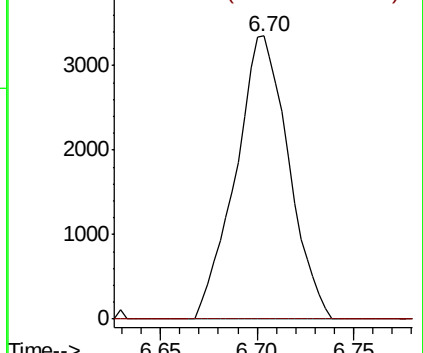
#37
 1,2-Dichloropropane
 Concen: 0.636 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041793.D
 Acq: 23 Dec 2020 19:44

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4T1

Tot Ion: 63 Resp: 6379
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#

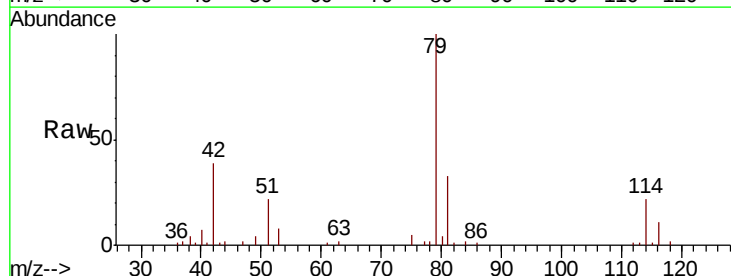


Abundance Ion 63.10 (62.80 to 63.80): VU041770.D (-1681) (-)
 Ion 112.10 (111.80 to 112.80): VU041770.D (-1681) (-)

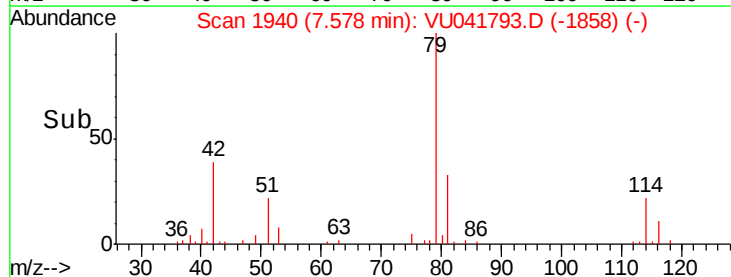
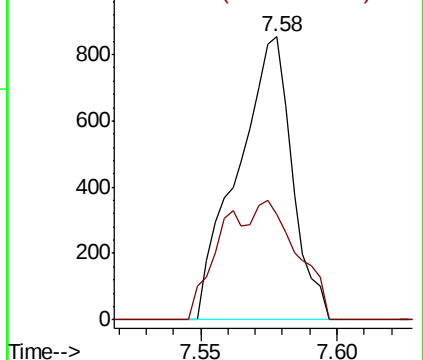


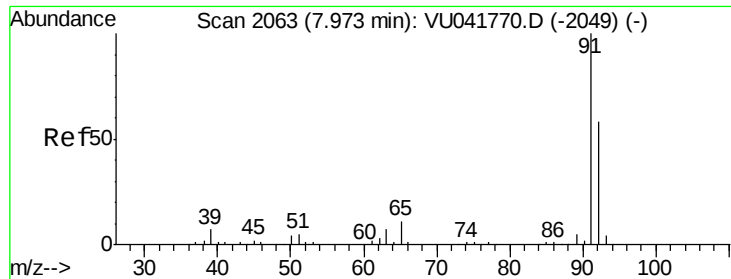
#39
 cis-1,3-Dichloropropene
 Concen: 0.079 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU041793.D
 Acq: 23 Dec 2020 19:44

Tgt Ion: 75 Resp: 1181
 Ion Ratio Lower Upper
 75 100
 77 37.2 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VU041770.D (-1930) (-)
 Ion 77.05 (76.75 to 77.75): VU041770.D (-1930) (-)





#42

Toluene

Concen: 0.062 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VU041793.D

Acq: 23 Dec 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

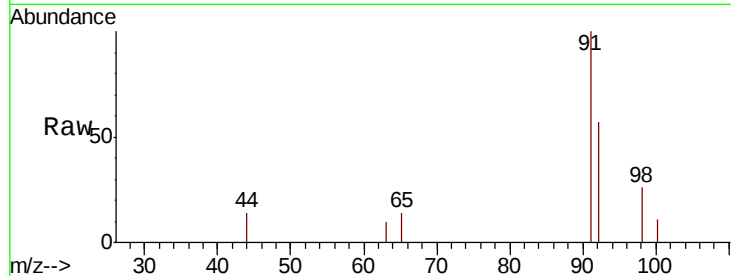
BG4T1

Tot Ion: 91 Resp: 2519

Ion Ratio Lower Upper

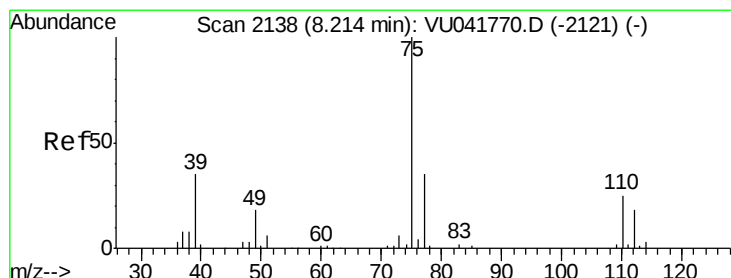
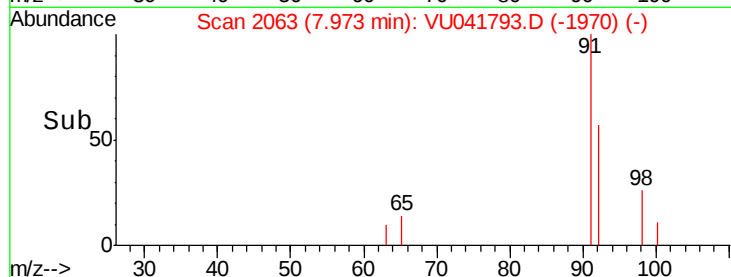
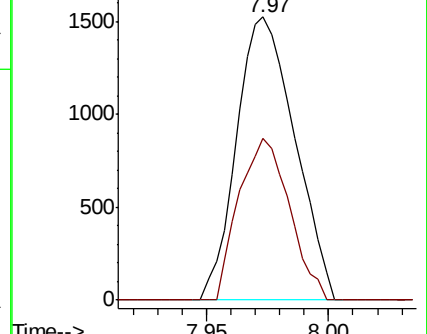
91 100

92 57.1 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.057 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041793.D

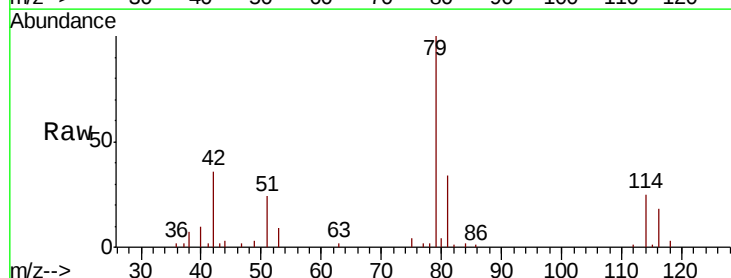
Acq: 23 Dec 2020 19:44

Tgt Ion: 75 Resp: 759

Ion Ratio Lower Upper

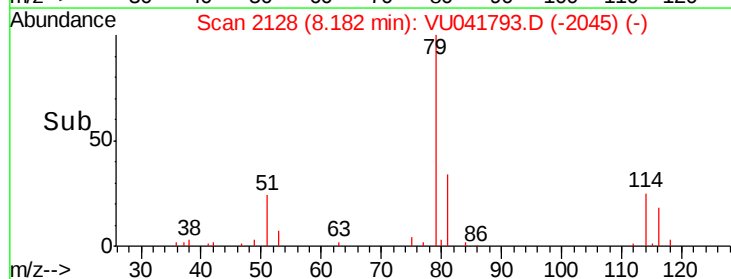
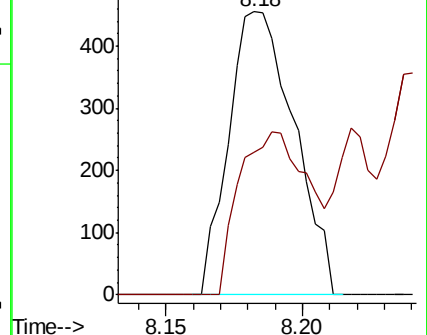
75 100

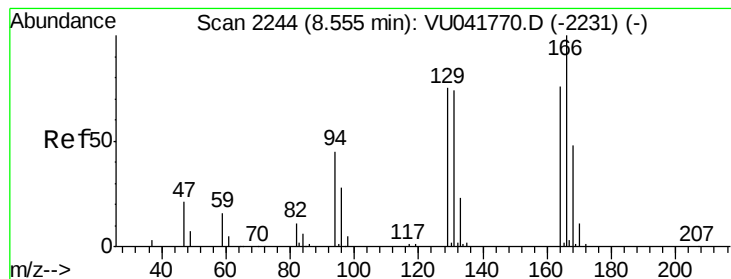
77 50.5 23.8 44.2#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#47

Tetrachloroethene

Concen: 6.170 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VU041793.D

Acq: 23 Dec 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

BG4T1

Tot Ion:164 Resp: 42557

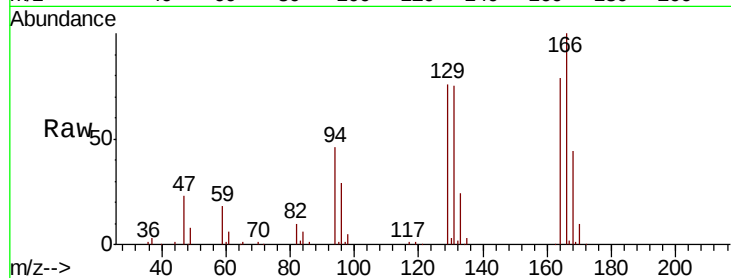
Ion Ratio Lower Upper

164 100

129 96.0 72.2 134.0

131 95.2 66.9 124.3

166 126.6 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

Time-->

8.50 8.55 8.60 8.65

8.56

50000

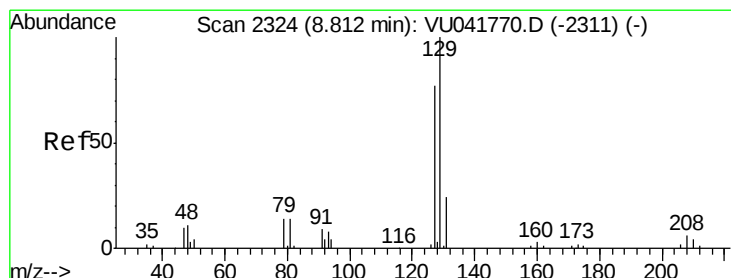
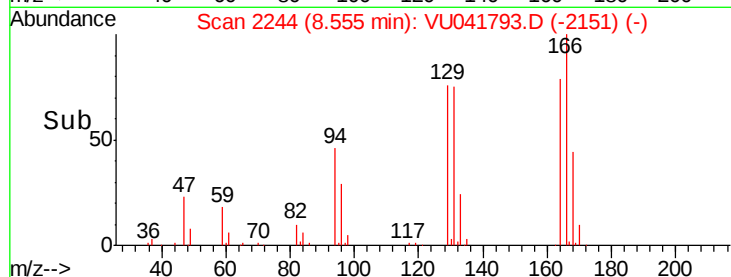
40000

30000

20000

10000

0



#49

Dibromochloromethane

Concen: 4.865 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041793.D

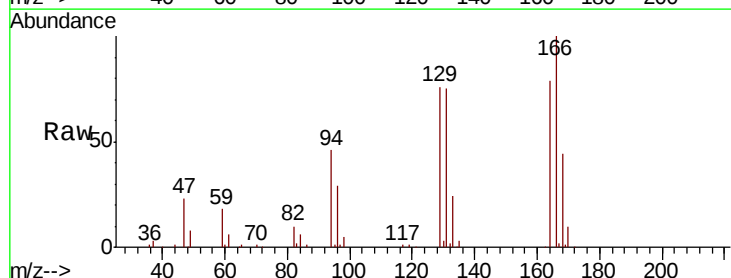
Acq: 23 Dec 2020 19:44

Tgt Ion:129 Resp: 41450

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

Time-->

8.50 8.55 8.60 8.65

8.56

25000

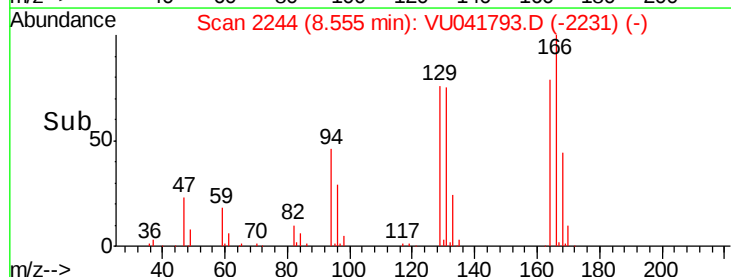
20000

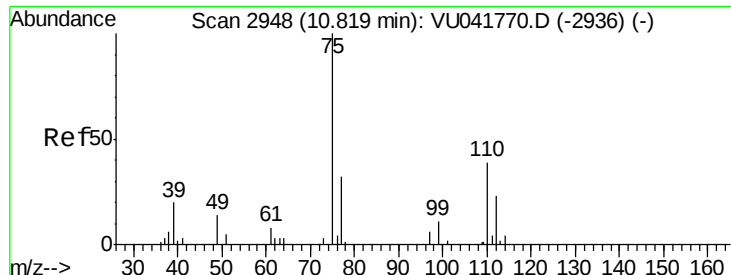
15000

10000

5000

0





#59

1,2,3-Trichloropropane

Concen: 0.785 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041793.D

Acq: 23 Dec 2020 19:44

Instrument :

MSVOA_U

ClientSampleId :

BG4T1

Tot Ion: 75 Resp: 5910

Ion Ratio Lower Upper

75 100

77 32.3 26.2 39.2

